Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: GCMS-4 **Month/Year:** April 2025

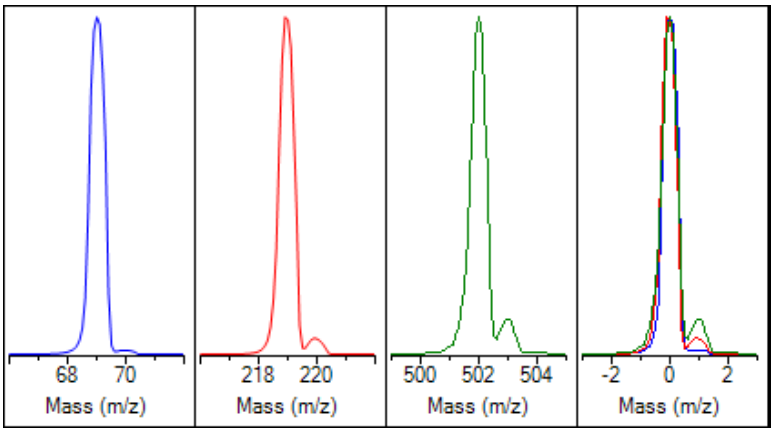
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	4/7/2025	800	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
2	4/14/2025	2250	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst	New He tank installed 04/11/25	DS
3	4/22/2025	1100	Pass	N/A	✓	N/A	N/A	N/A	✓	Maintenance	Analyst	Computer restart due to building power failure	DS
4	4/28/2025	2500	Pass	✓	✓	✓	N/A	N/A	N/A	Maintenance	Analyst	New He tank installed 04/28/25	DS/DN

Signature: Derek Sanders **Date:** 05/01/2025

High Efficiency Source Autotune - 5977

Tune timestamp: 4/7/2025 9:28 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



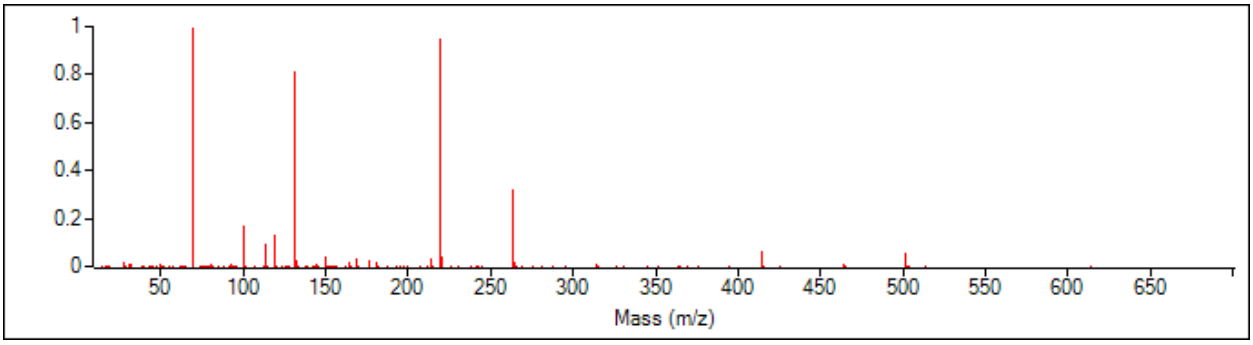
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	85
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2447
Repeller	11.50	Amu Offset	137.06
Ion Focus	149.6	Width219	0.001
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	14.06	HED Enable	On
Ion Body	5.25	EM Volts	2227.8
Post Extractor 1	11	Extractor Lens	14.10
Post Extractor 2	33	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	492,822	100.0%	0.61
218.90	474,622	96.3%	0.61
502.00	26,131	5.3%	0.62

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.74e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	127	69.00	472,832	1,925,121



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	472,832	100.0%	70.00	5,622	1.2%
219.00	219.00	450,688	95.3%	220.00	21,016	4.7%
502.00	502.00	25,368	5.4%	503.00	2,456	9.7%

Air/Water Check: H20 ~0.1% N2 ~2.2% O2 ~0.7% CO2 ~0.1% N2/H20 ~2065.0%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 13125.825

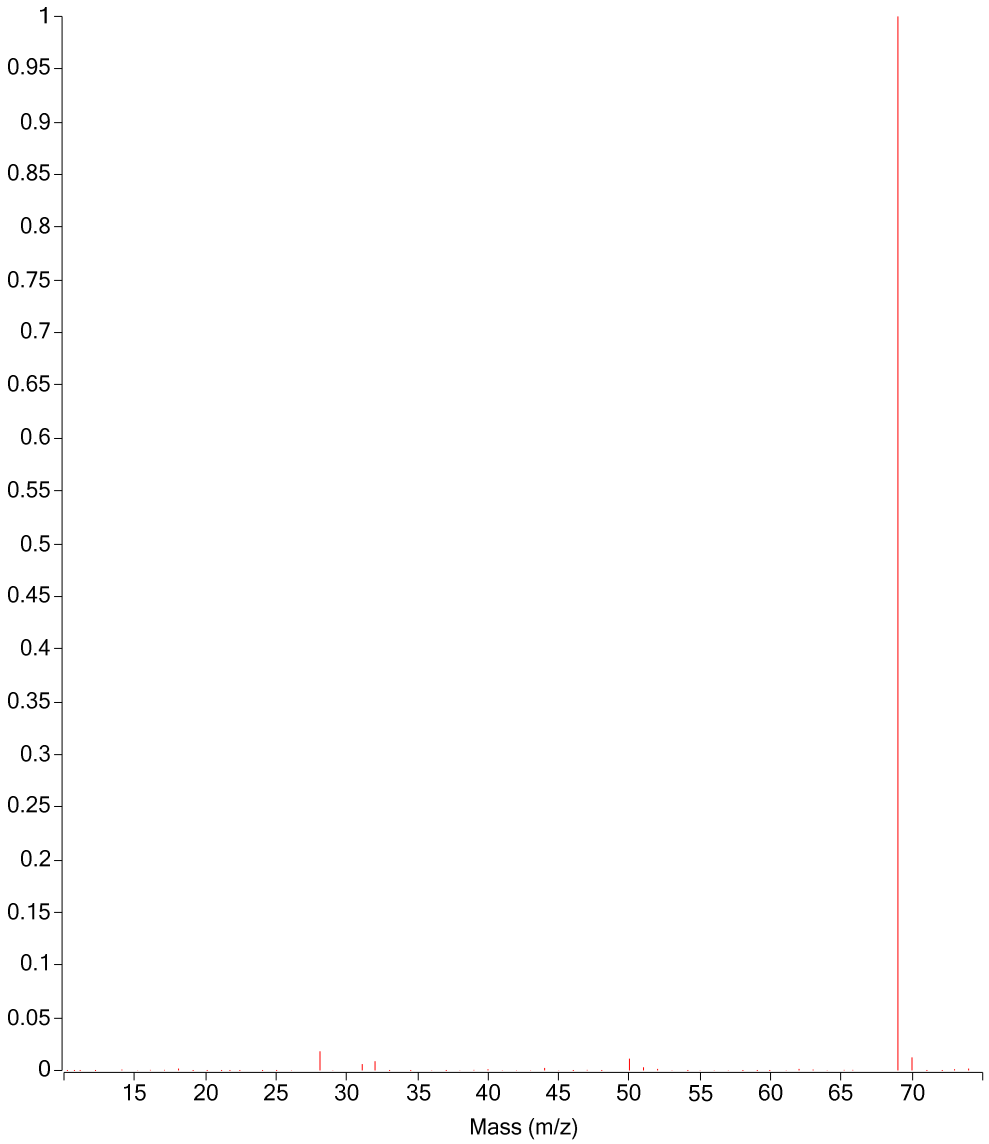
Repeller maximum 35 volts using ion 219; Gain Factor 0.1313

Mass Gain Values(Scan Speed): 90(3) 91(2) 99(1) 113(0) 165(FS1) 165(FS2) 176(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.1	137.1	137.1	137.1	137.1	137.1	137.1
Entrance Lens Offset	14.1	14.1	14.1	14.1	14.1	14.1	14.1

597x Air and Water Check

Instrument: GCMS #4
Mon Apr 07 09:18:34 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.19	Water%	(counts=1234)
28/69 =	1.83	Nitrogen%	(counts=12089)
32/69 =	0.88	Oxygen%	(counts=5792)
44/69 =	0.25	Carbon Dioxide%	(counts=1651)
28/18 =	979.66	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.72E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.64	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	9.84	OK
Ratio of 219 to 69 should be > 40% and is	96.31	OK
Ratio of 502 to 69 should be > 2.4% and is	6.05	OK
Mass 69 Precursor (<= 3%)	0.74	OK
Mass 219 Precursor (<= 6%)	1.95	OK
Mass 502 Precursor (<= 12%)	3.91	OK

597x Air and Water Check
Mon Apr 07 09:32:21 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.10	OK
Ratio of 28 to 69 (<10%)	2.23	OK
Electron Multiplier Voltage	2228	OK

Tune portion of System Verification passed.

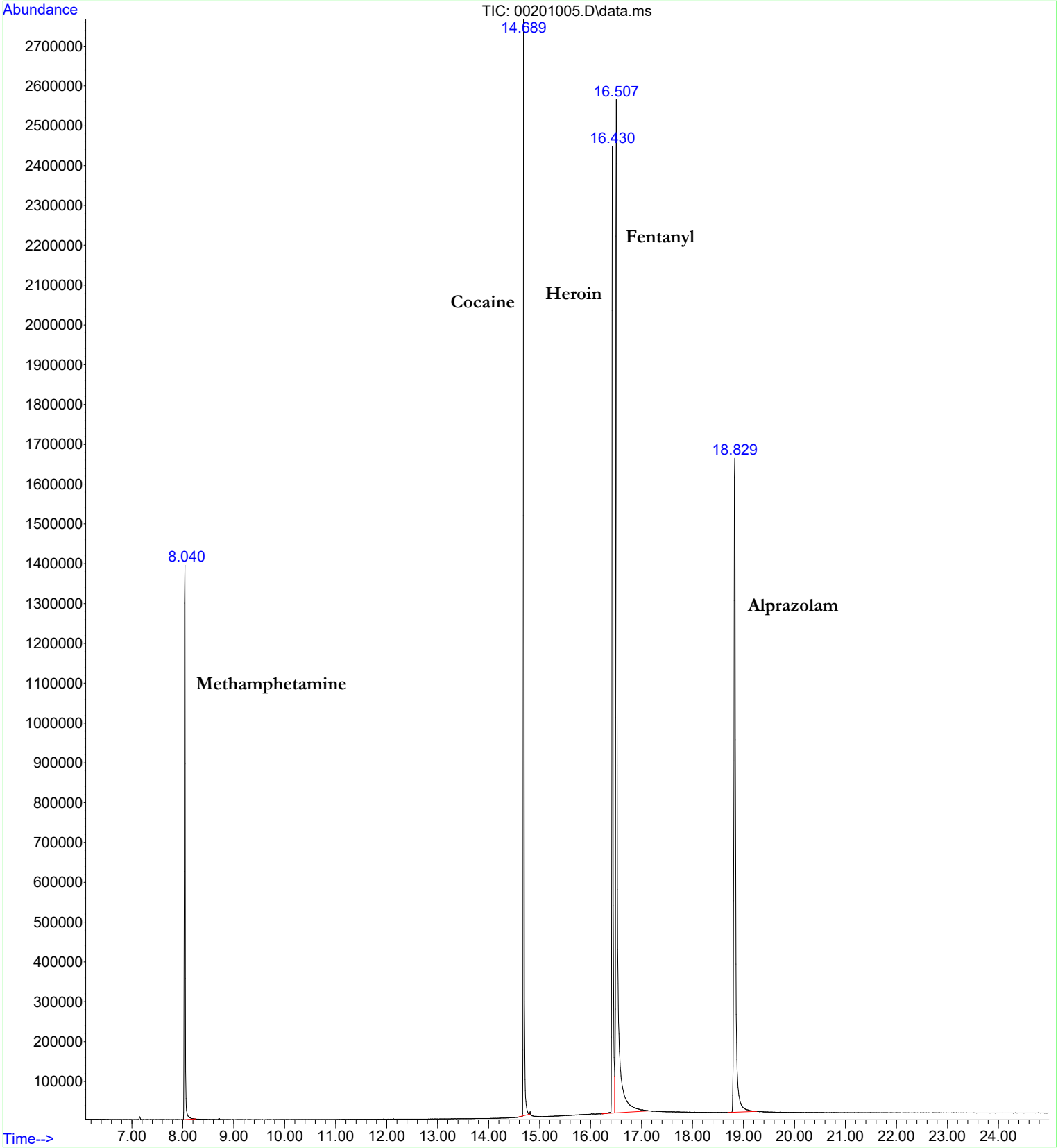
BCCL GC/MS #4
Retention Times for the Week of:

04/07/2025 - 04/13/2025

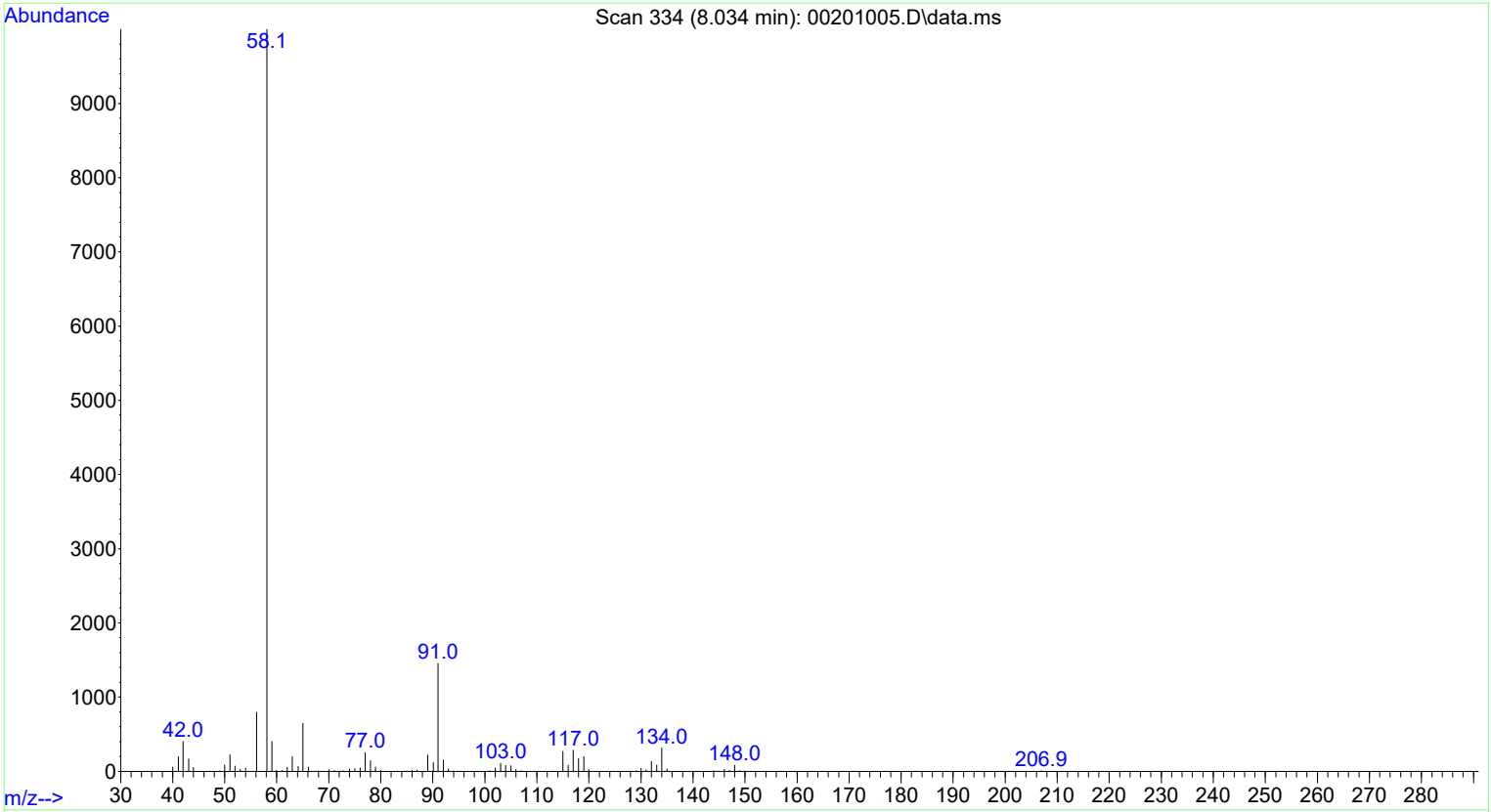
[X] **Tune:** DS **04/07/2025 - HES Autotune**

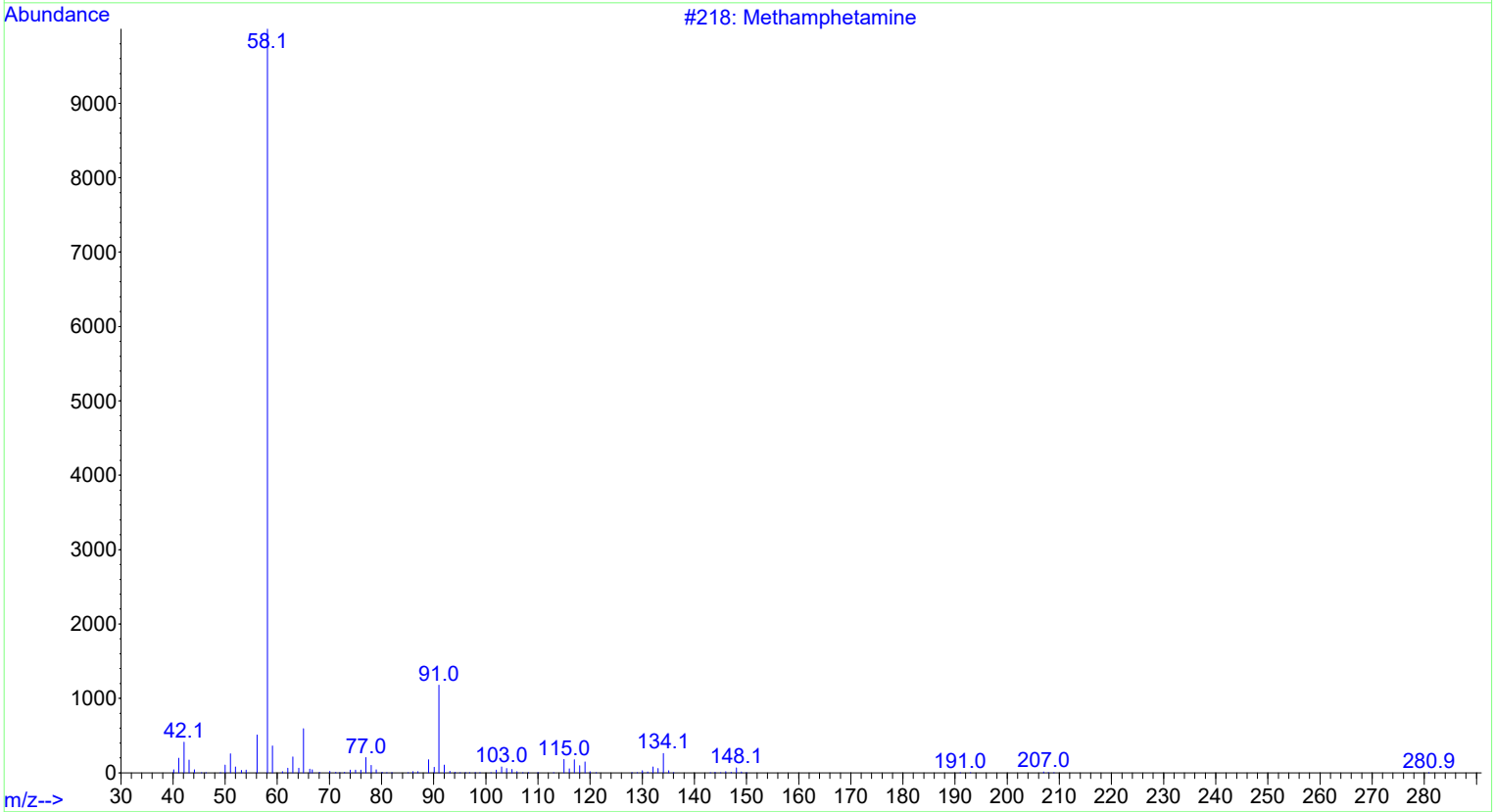
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.040	7.959	8.120
Cocaine	R-24-060	DrugTest35MS	14.689	14.542	14.835
Heroin	R-24-060	DrugTest35MS	16.430	16.265	16.594
Fentanyl	R-24-060	DrugTest35MS	16.507	16.341	16.672
Alprazolam	R-24-060	DrugTest35MS	18.829	18.640	19.017
Hydrocodone	R-24-033	DrugTest35MS	15.897	15.738	16.055

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\040725\00201005.D
Acquired : 07 Apr 2025 10:53 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

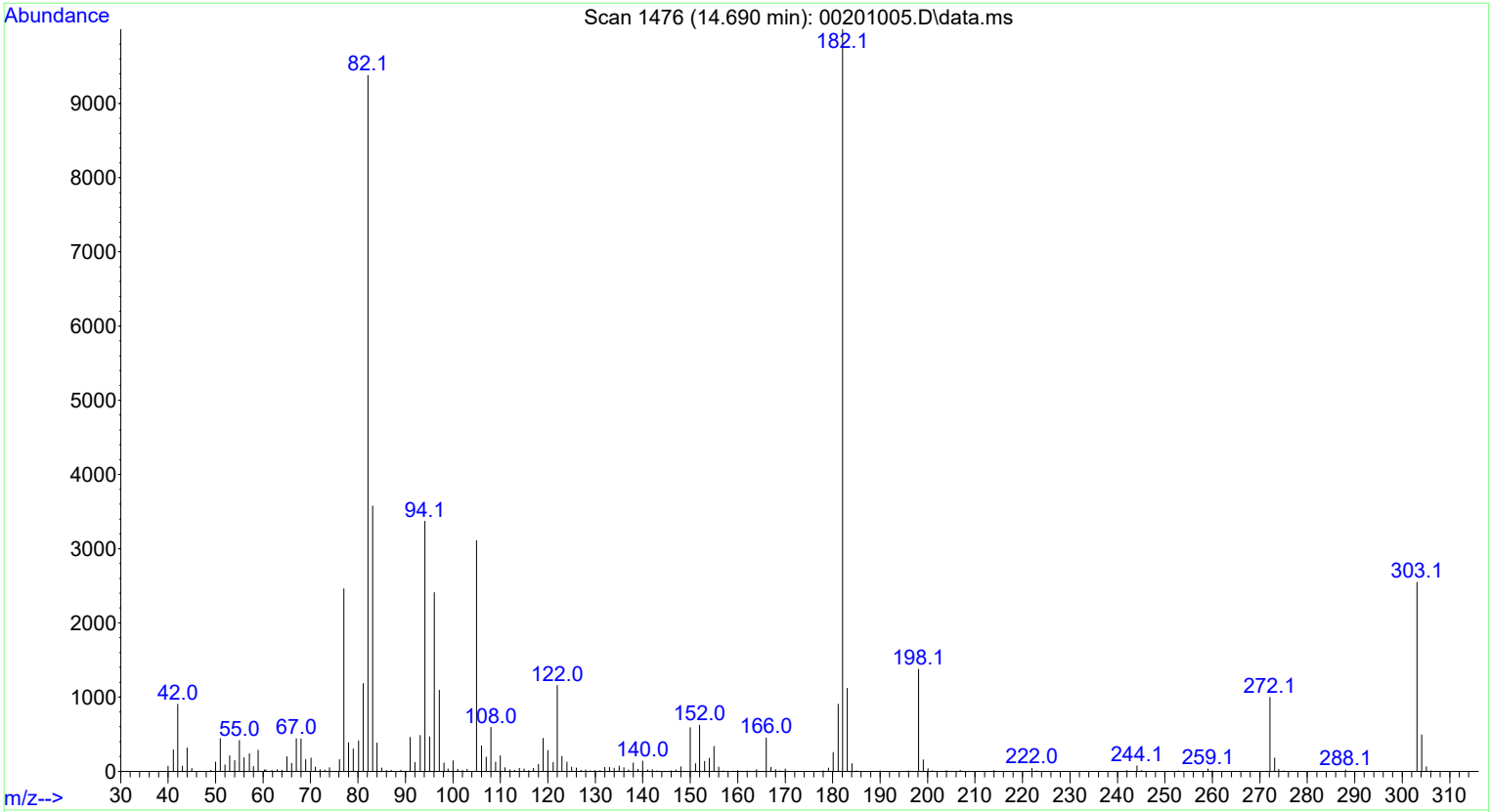


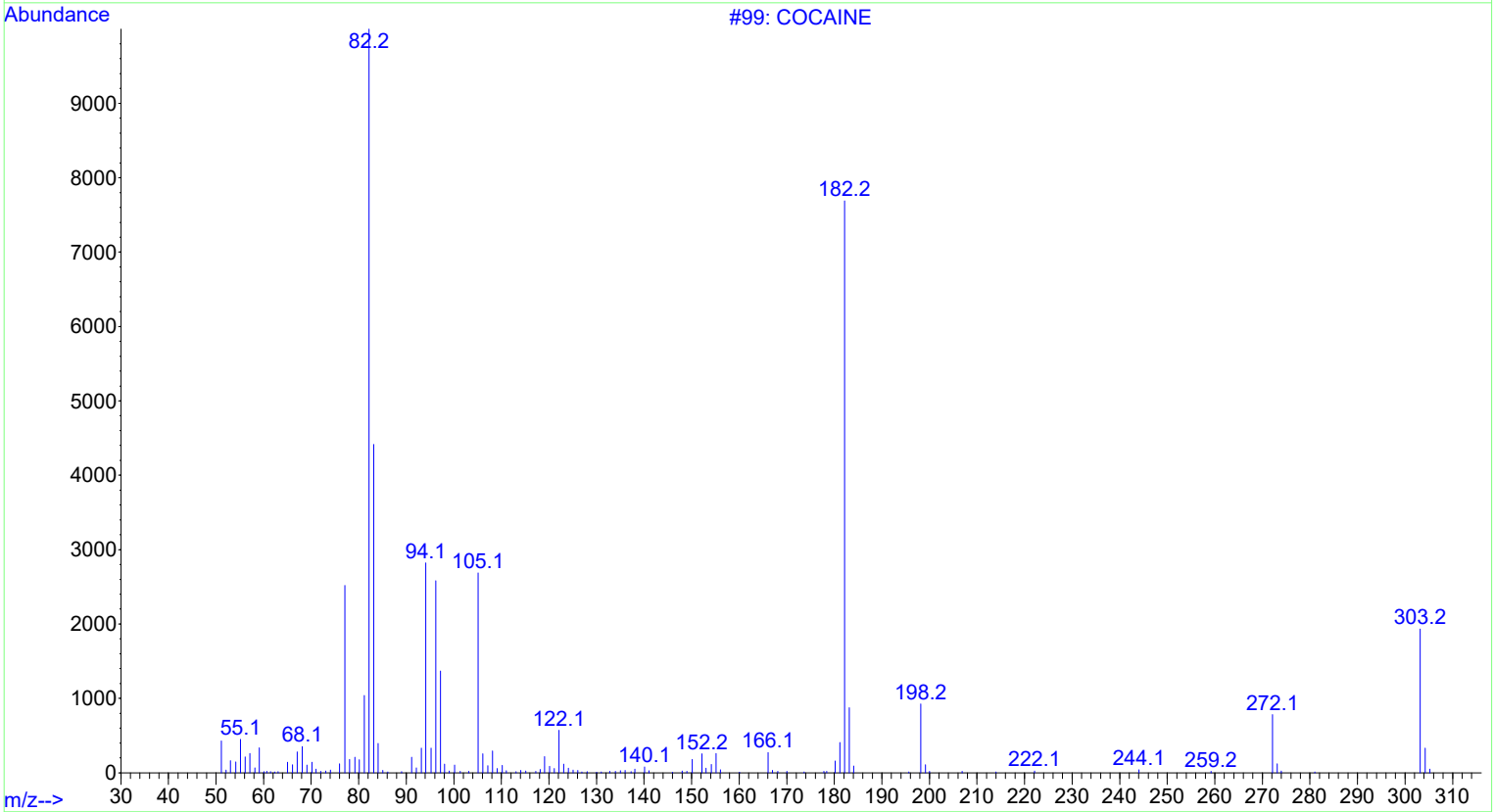
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Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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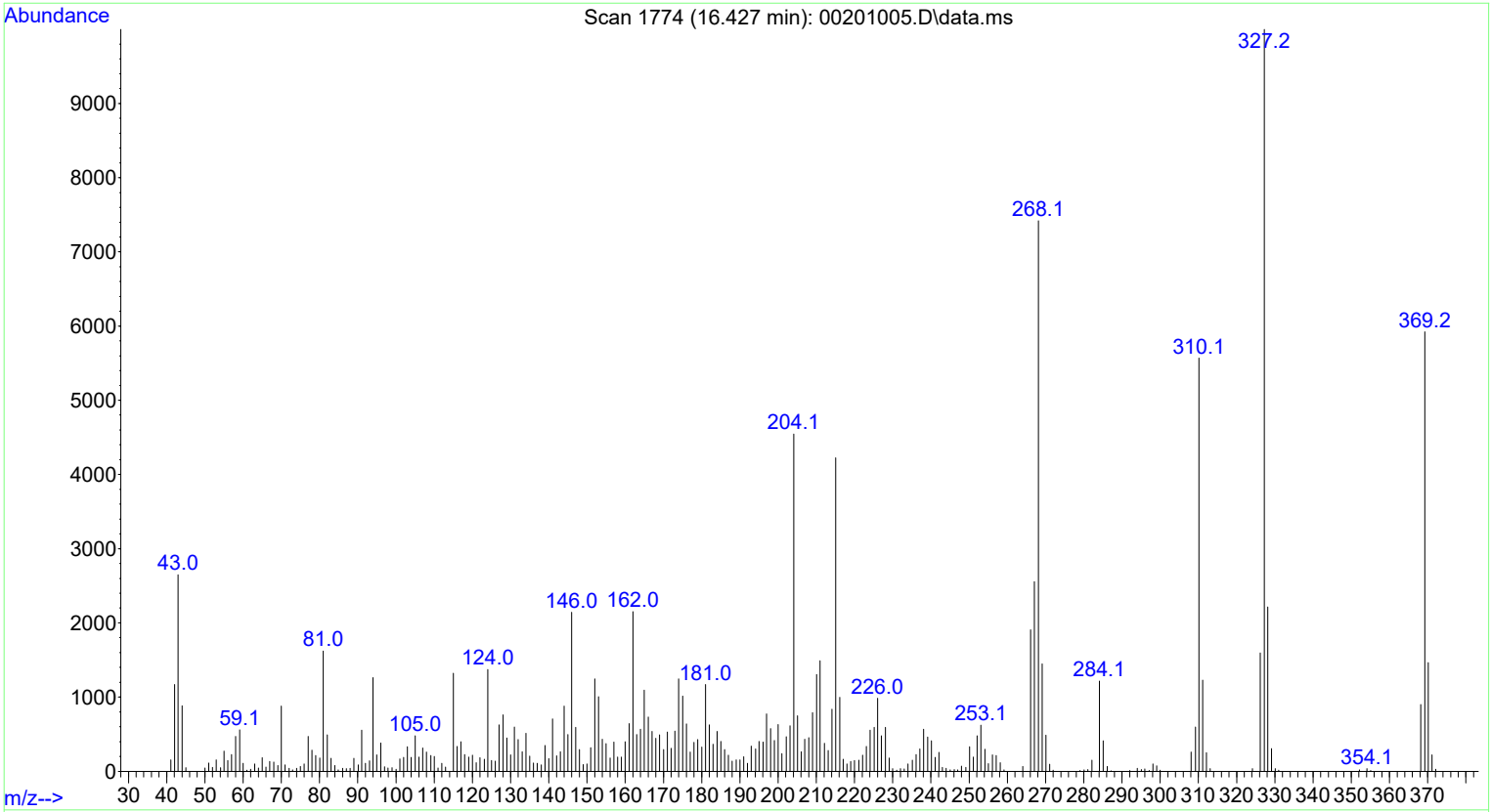


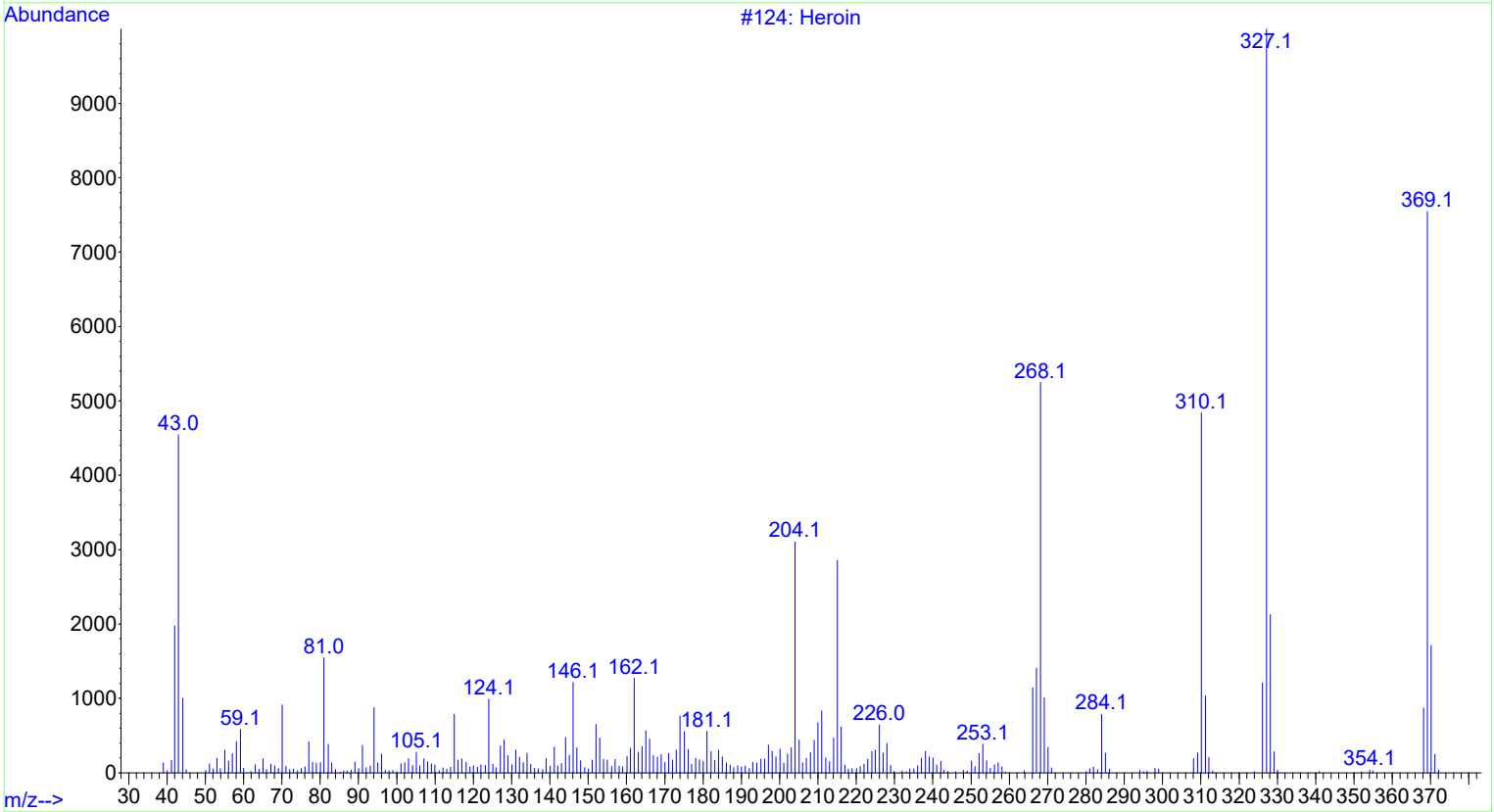
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Misc Info : in ACN 000002669
Vial Number: 2



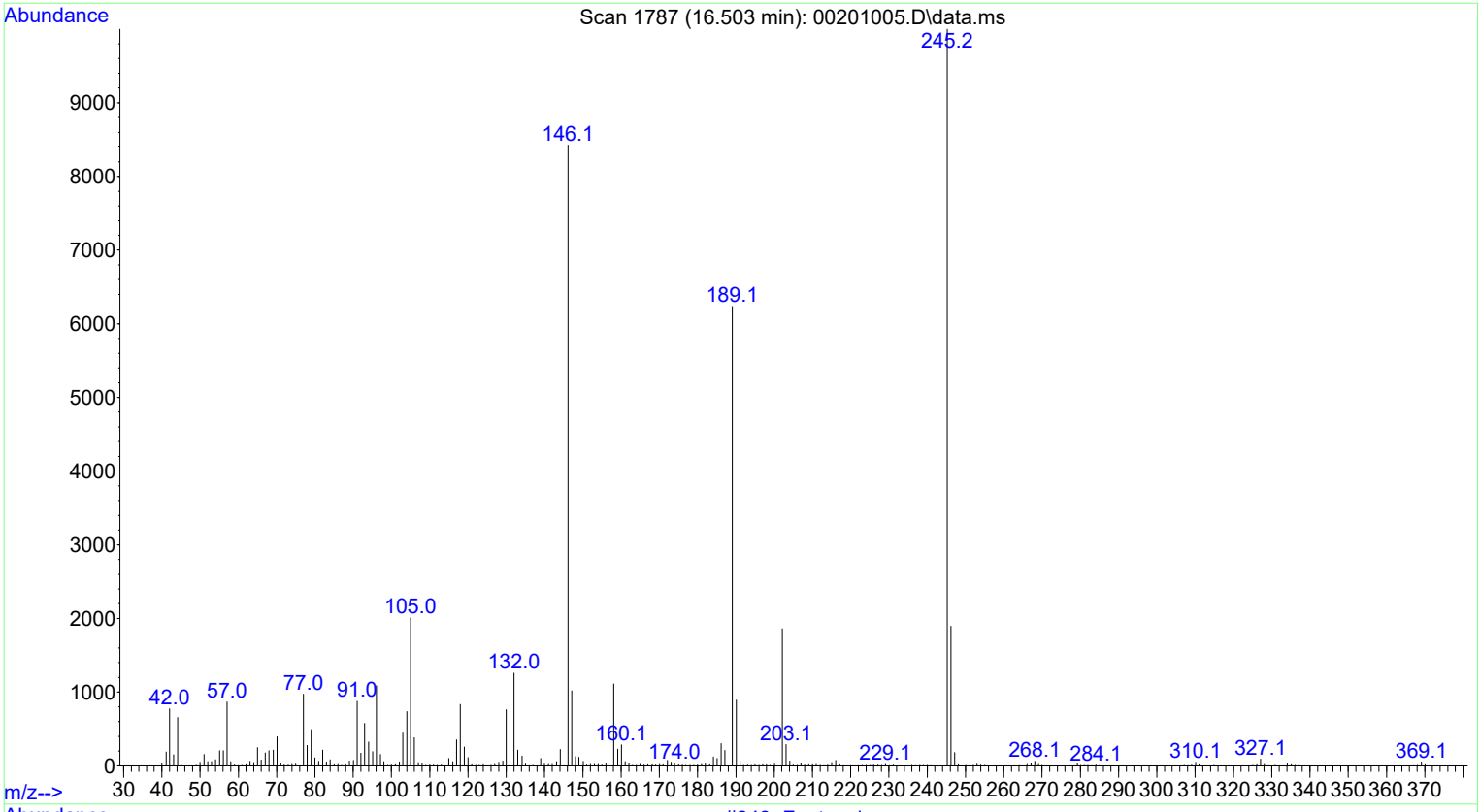


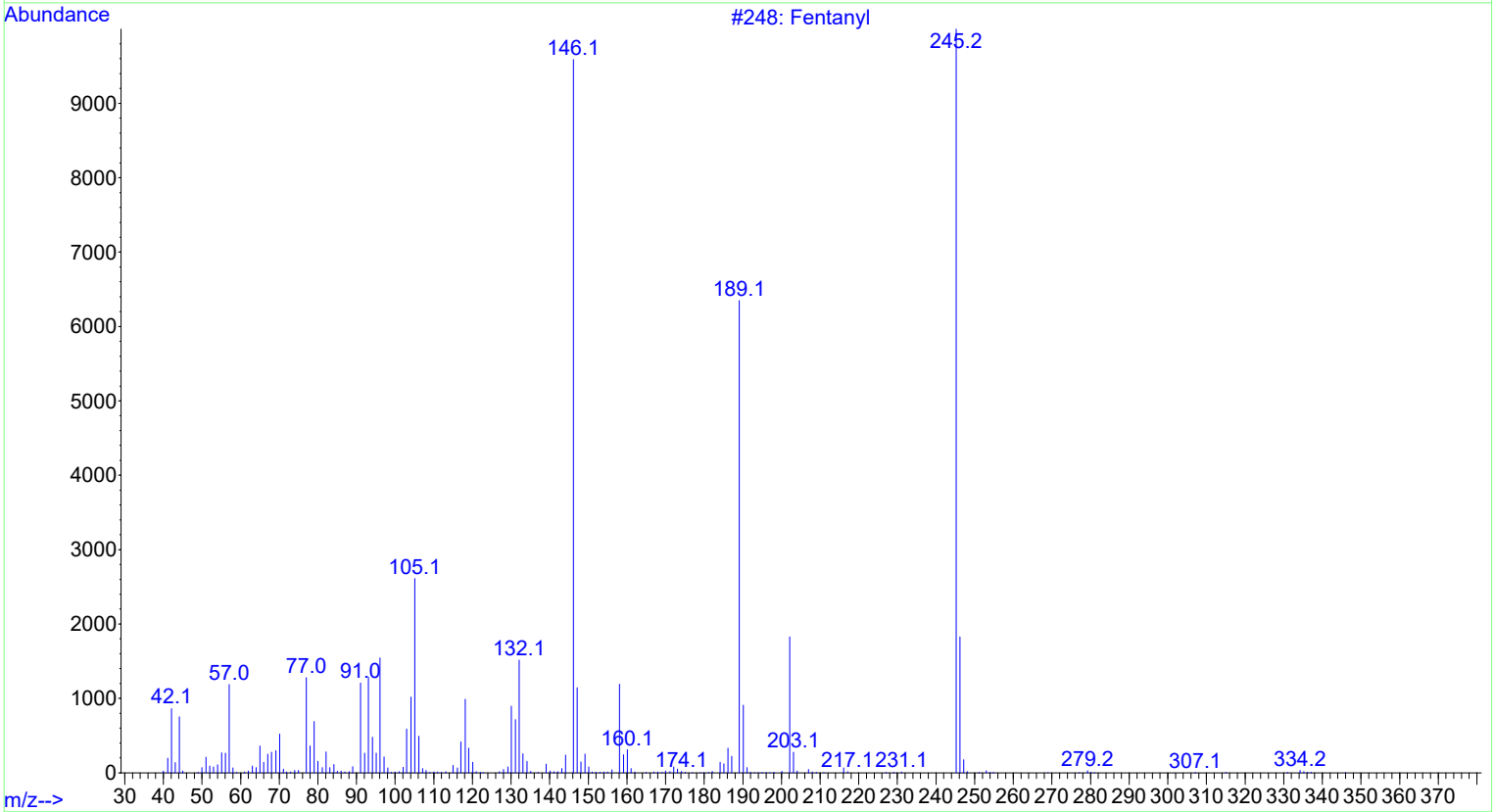
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



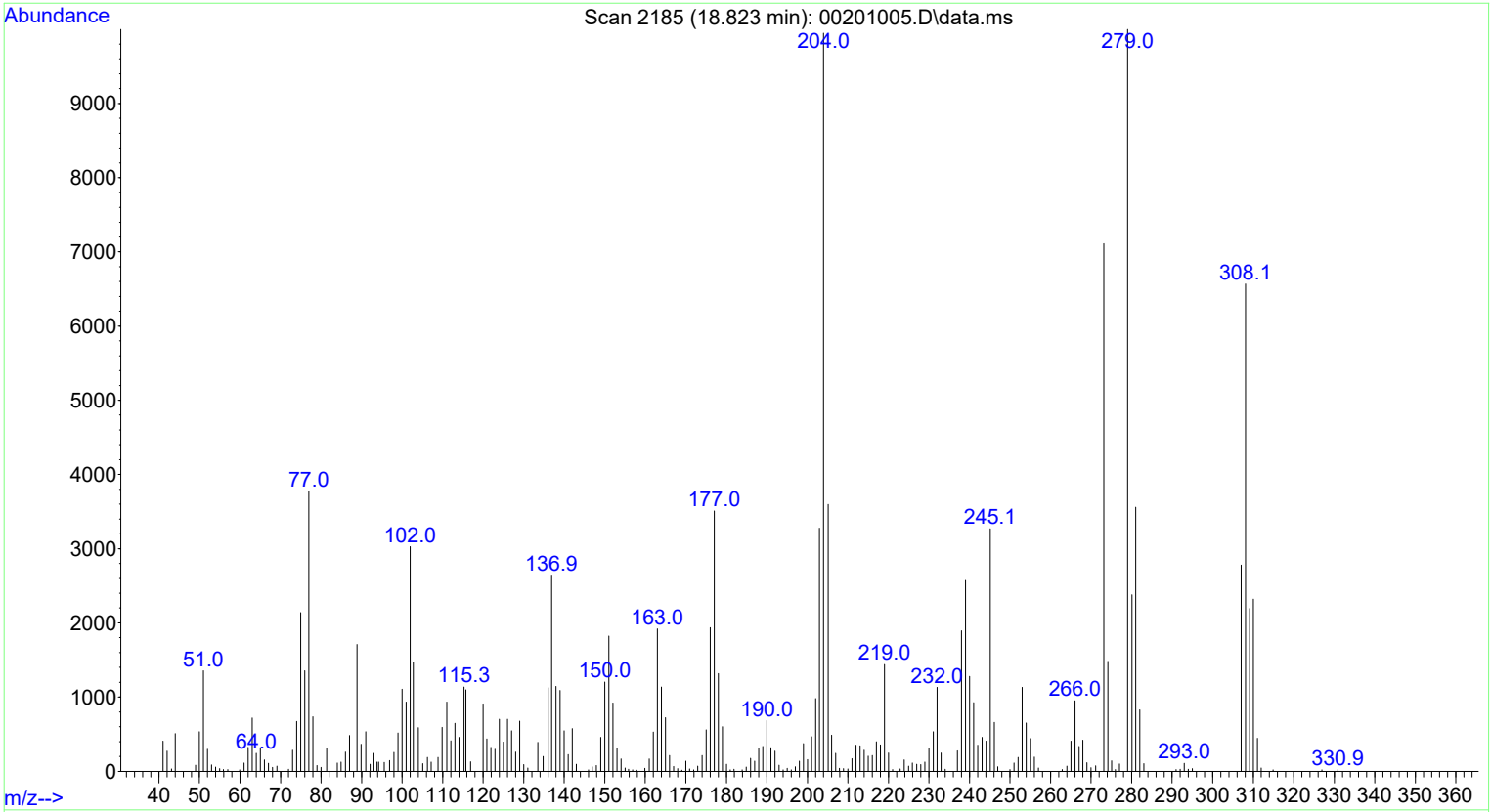


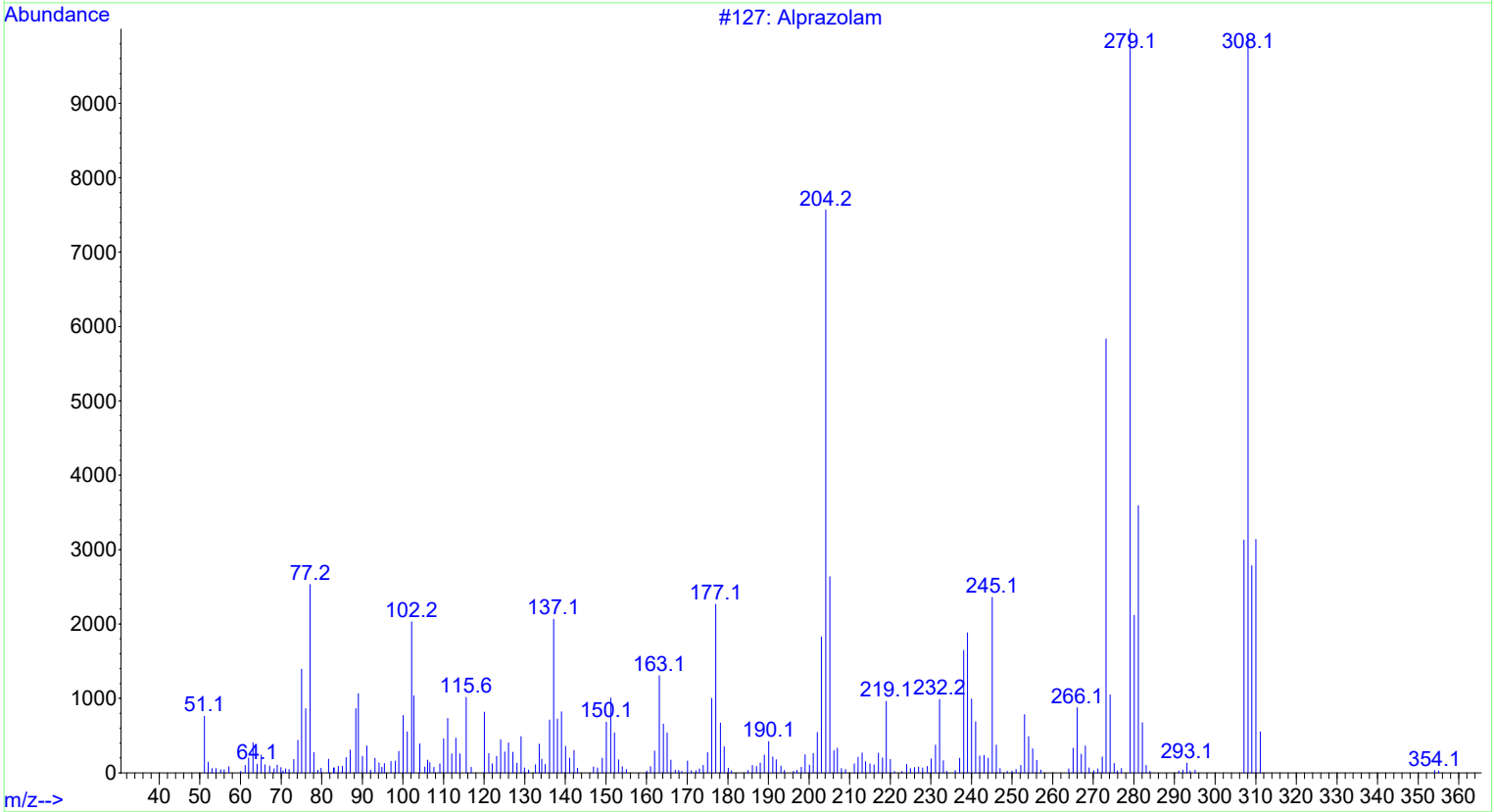
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Acquired : 07 Apr 2025 10:53 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



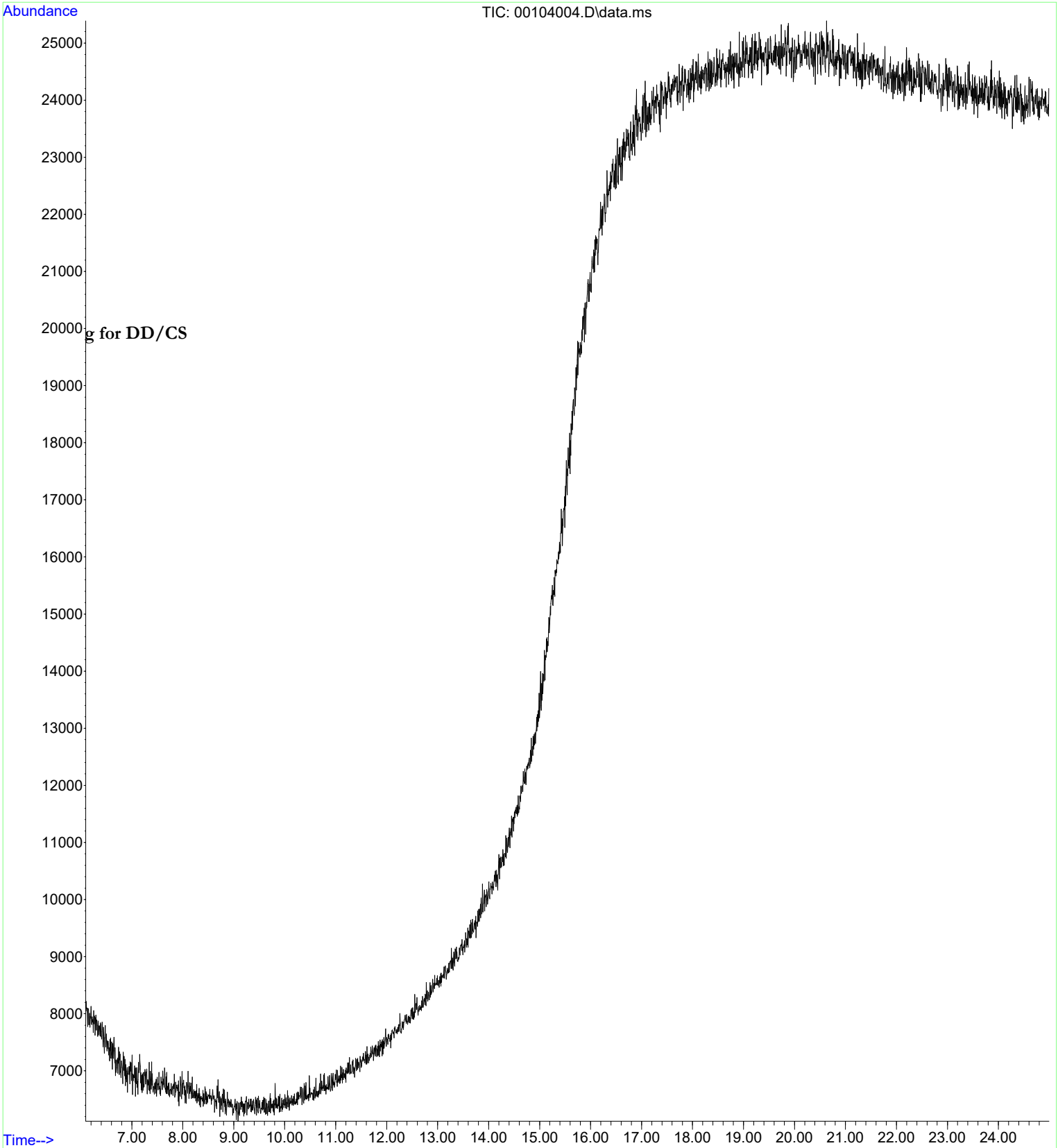


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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



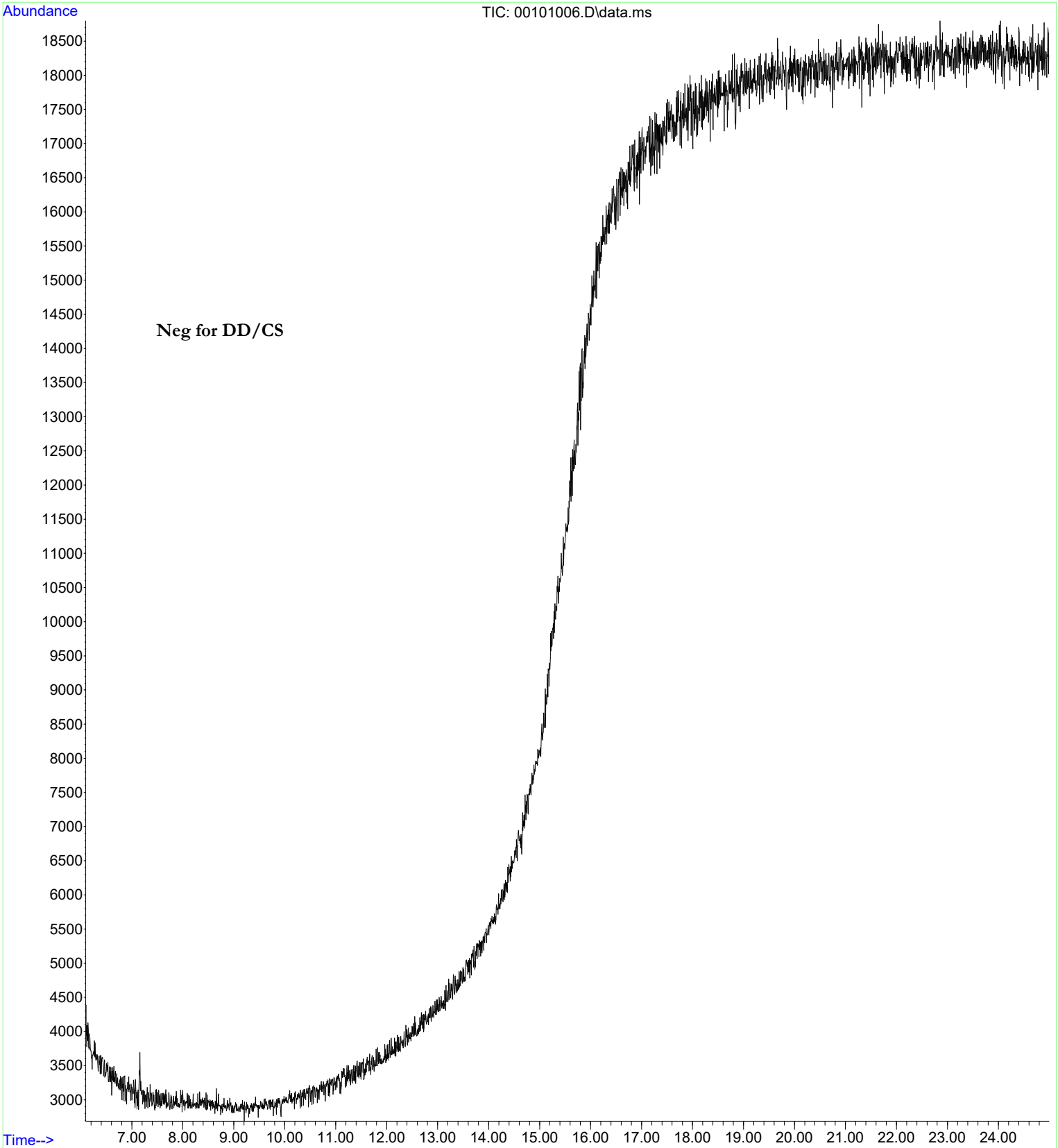


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Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1

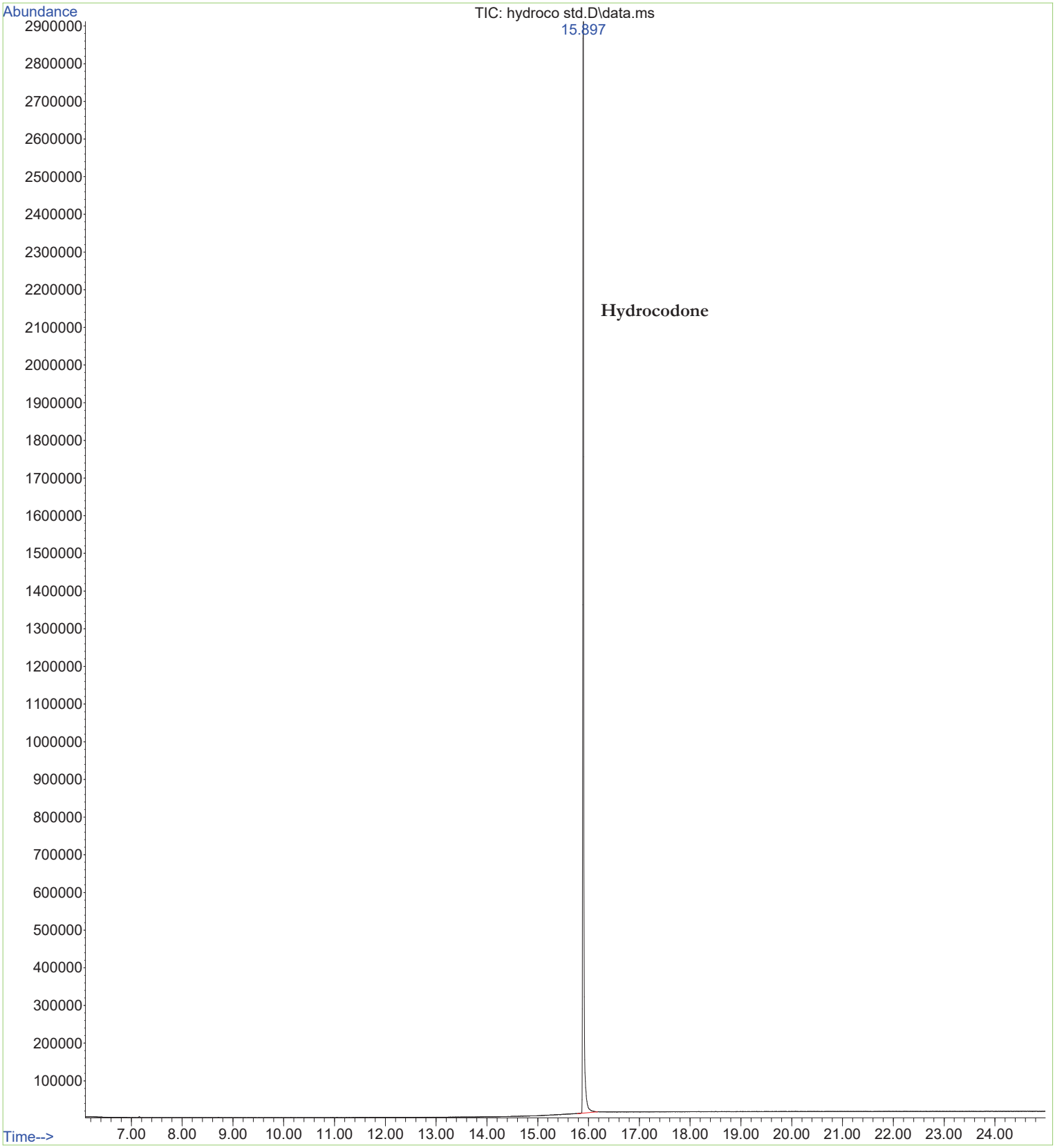


g for DD/CS

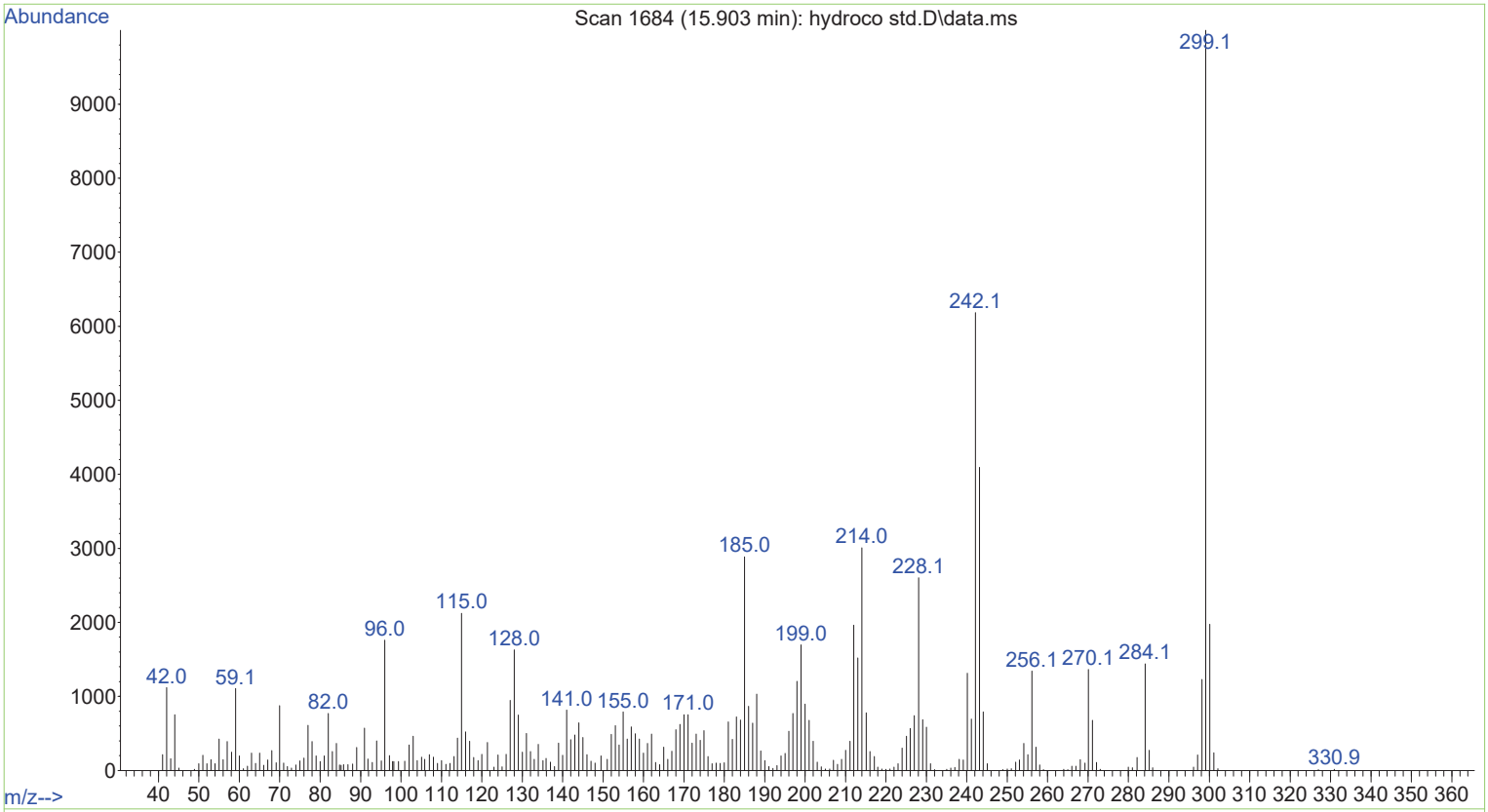
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Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

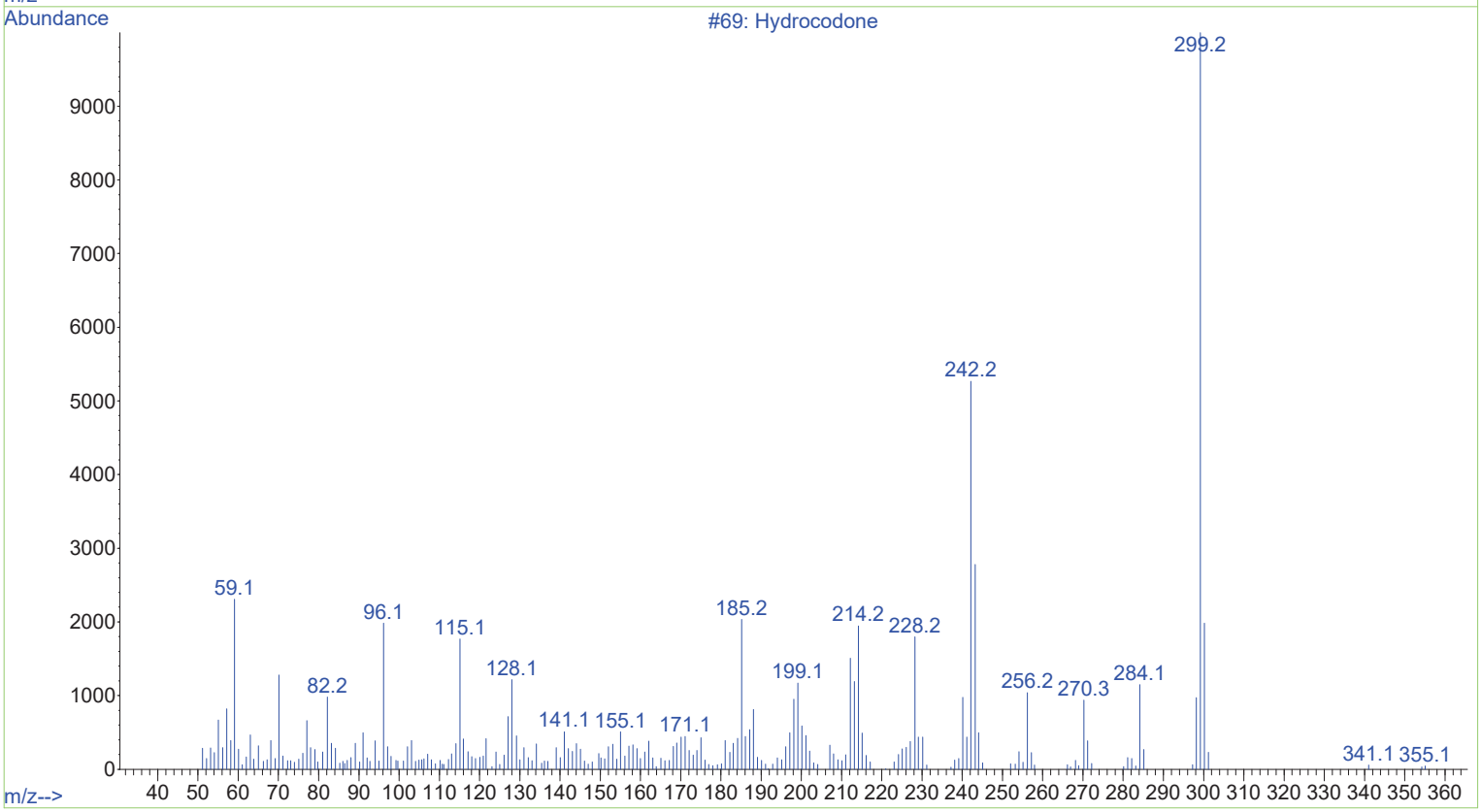


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Acquired : 11 Apr 2025 13:00 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Hydrocodone std (R-24-033) 000002989
Misc Info : RTdetermination 000002989
Vial Number: 134

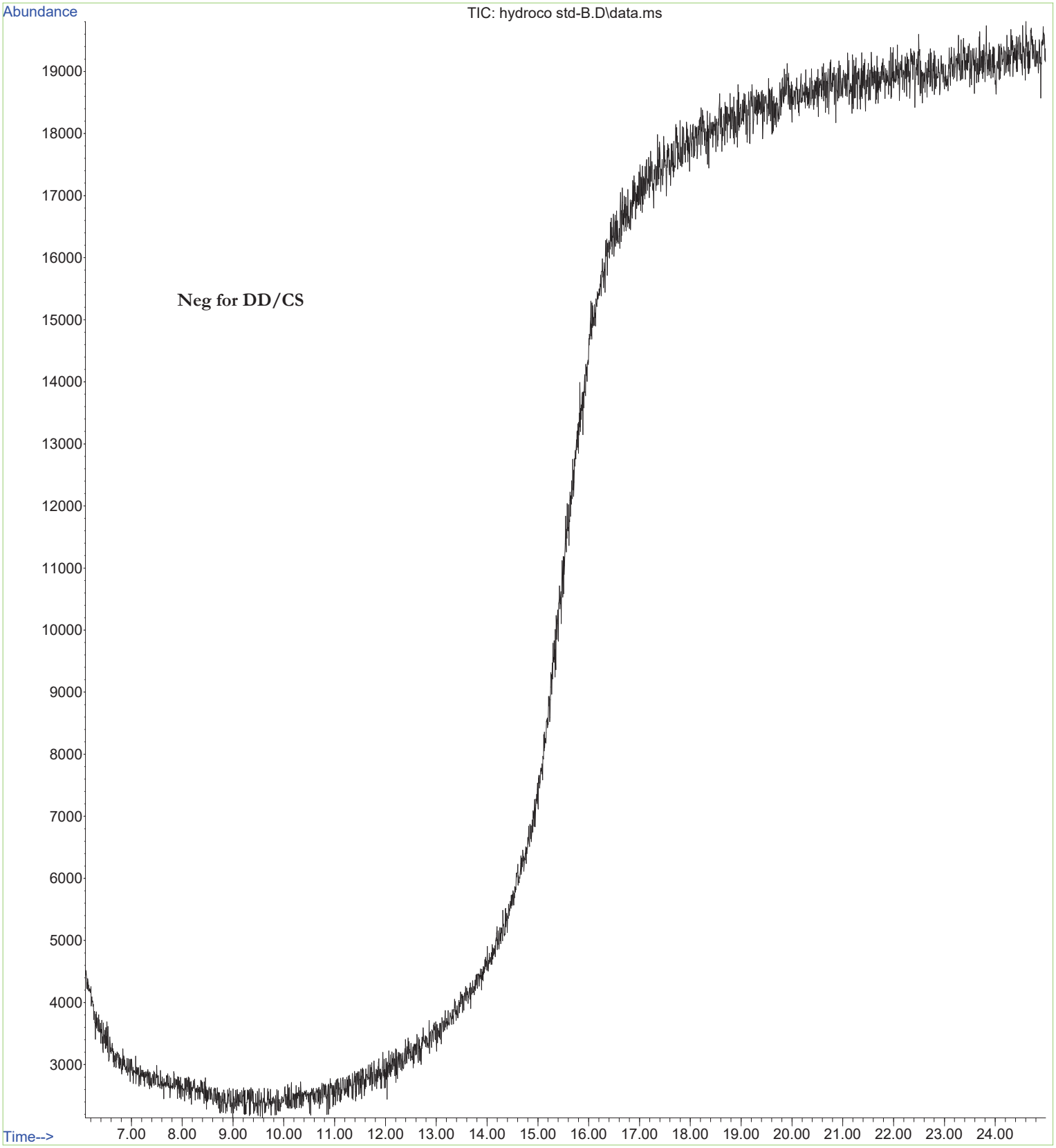


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Instrument : GCMS #4
Sample Name: Hydrocodone std (R-24-033) 000002989
Misc Info : RTdetermination 000002989
Vial Number: 134





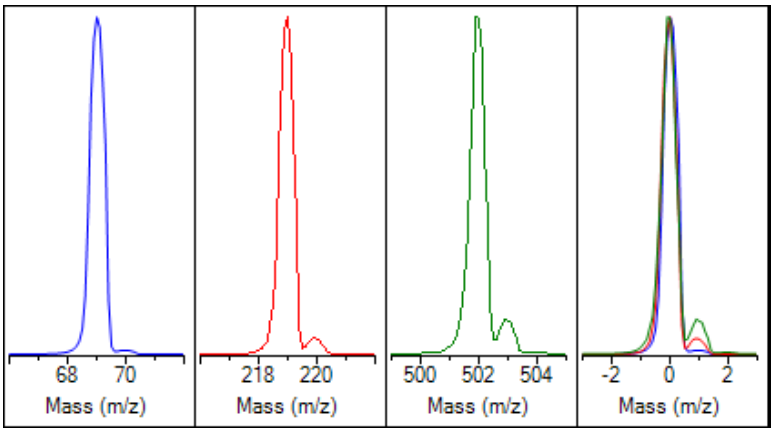
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... d-B.D
Acquired : 11 Apr 2025 12:31 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to Hydrocodone std (R-24-033) 000002793
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B))/base extracted w/ R-24-059 000002790
Vial Number: 131



High Efficiency Source Autotune - 5977

Tune timestamp: 4/14/2025 11:21 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



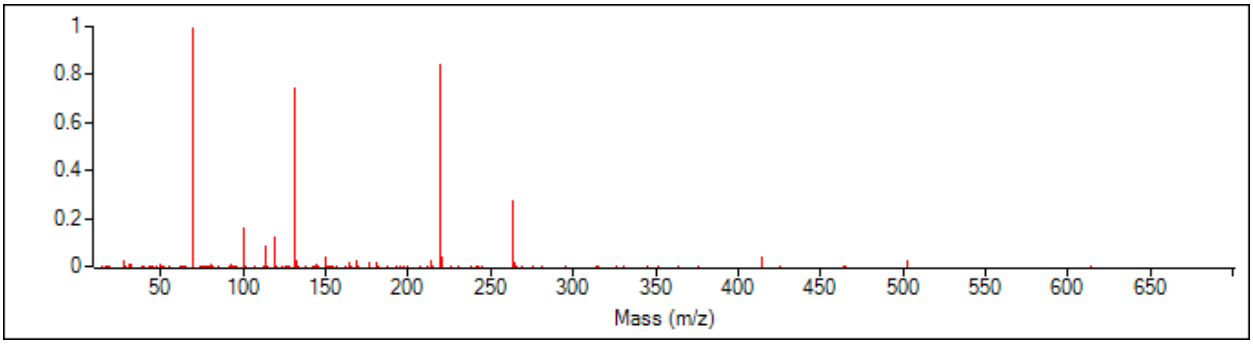
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	84
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2447
Repeller	13.51	Amu Offset	137.06
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.00	EM Volts	2196.1
Post Extractor 1	12	Extractor Lens	13.60
Post Extractor 2	31	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	468,872	100.0%	0.60
219.00	409,221	87.3%	0.60
501.90	24,043	5.1%	0.57

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.10e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	116	69.00	443,776	1,656,977



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	443,776	100.0%	70.00	5,364	1.2%
219.00	219.00	375,744	84.7%	220.00	17,328	4.6%
502.00	502.10	12,892	2.9%	503.10	1,256	9.7%

Air/Water Check: H20 ~0.1% N2 ~2.5% O2 ~0.9% CO2 ~0.1% N2/H20 ~1794.3%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 11025.832

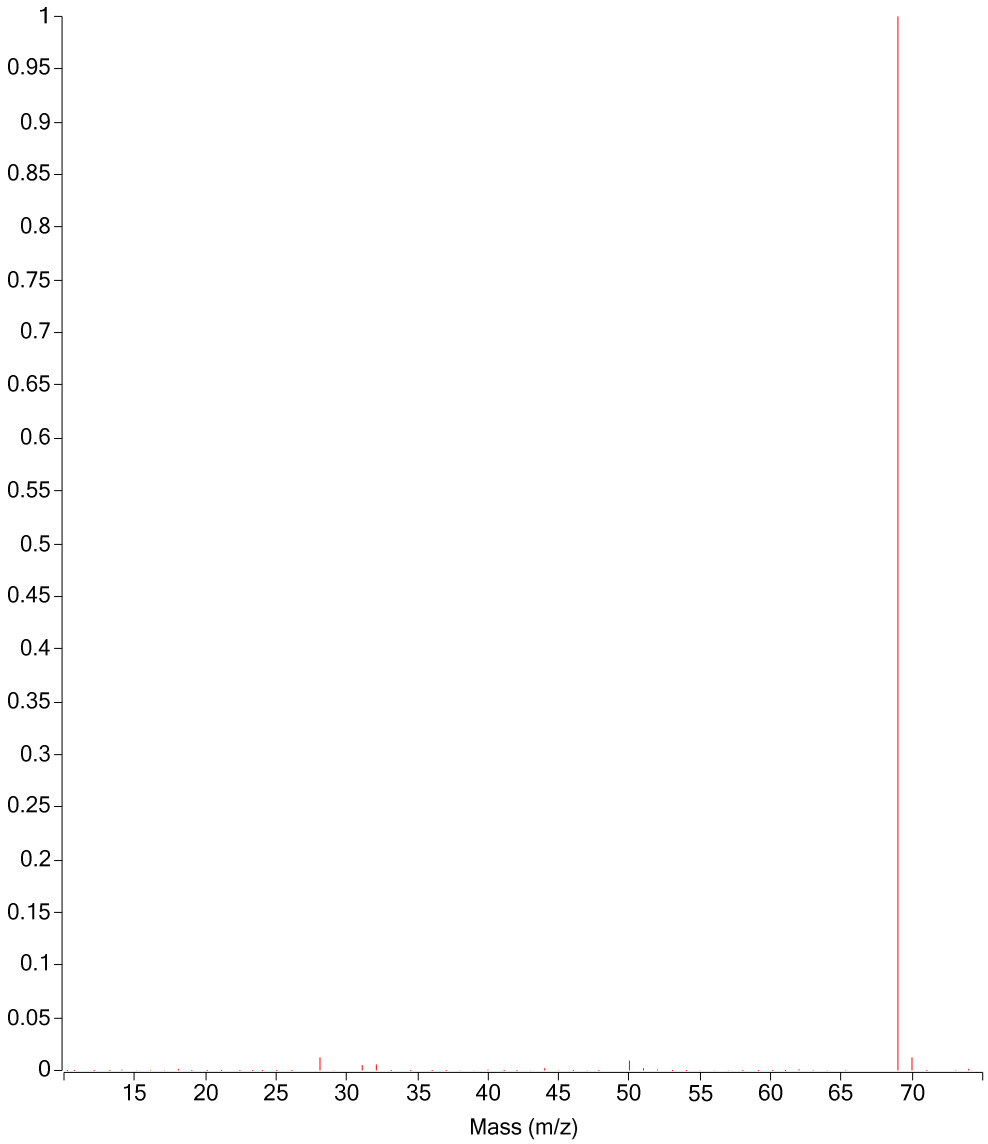
Repeller maximum 35 volts using ion 219; Gain Factor 0.1103

Mass Gain Values(Scan Speed): 90(3) 95(2) 96(1) 118(0) 170(FS1) 169(FS2) 136(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.1	137.1	137.1	137.1	137.1	137.1	137.1
Entrance Lens Offset	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Mon Apr 14 11:10:25 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.15	Water%	(counts=1120)
28/69 =	1.25	Nitrogen%	(counts=9264)
32/69 =	0.57	Oxygen%	(counts=4262)
44/69 =	0.21	Carbon Dioxide%	(counts=1555)
28/18 =	827.14	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.85E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.03	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.01	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.21	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.68	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.32	OK
Ratio of 219 to 69 should be > 40% and is	79.44	OK
Ratio of 502 to 69 should be > 2.4% and is	3.79	OK
Mass 69 Precursor (<= 3%)	0.77	OK
Mass 219 Precursor (<= 6%)	2.49	OK
Mass 502 Precursor (<= 12%)	5.30	OK

597x Air and Water Check
Mon Apr 14 11:24:43 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.13	OK
Ratio of 28 to 69 (<10%)	2.48	OK
Electron Multiplier Voltage	2196	OK

Tune portion of System Verification passed.

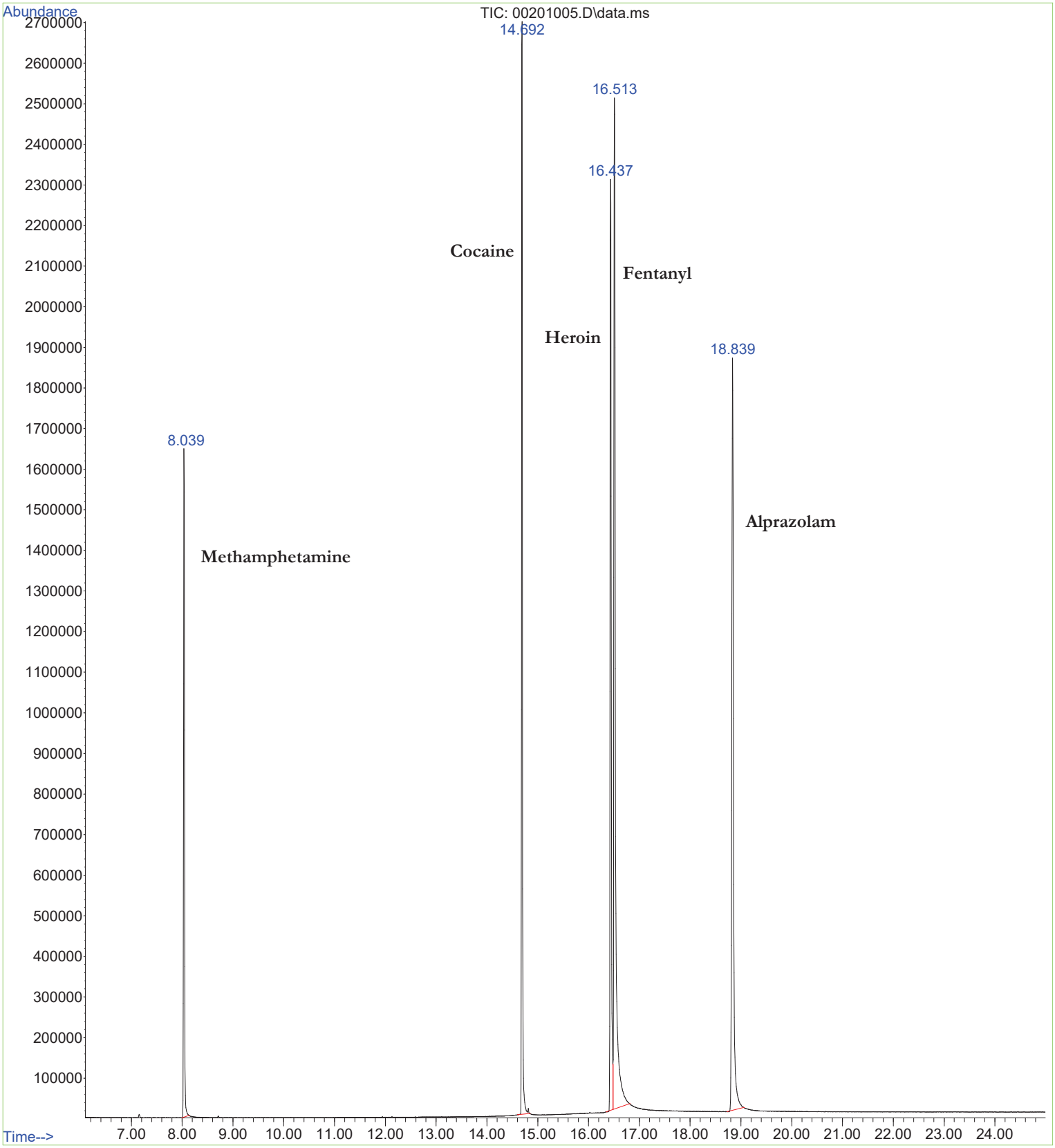
BCCL GC/MS #4
Retention Times for the Week of:

04/14/2025 - 04/20/2025

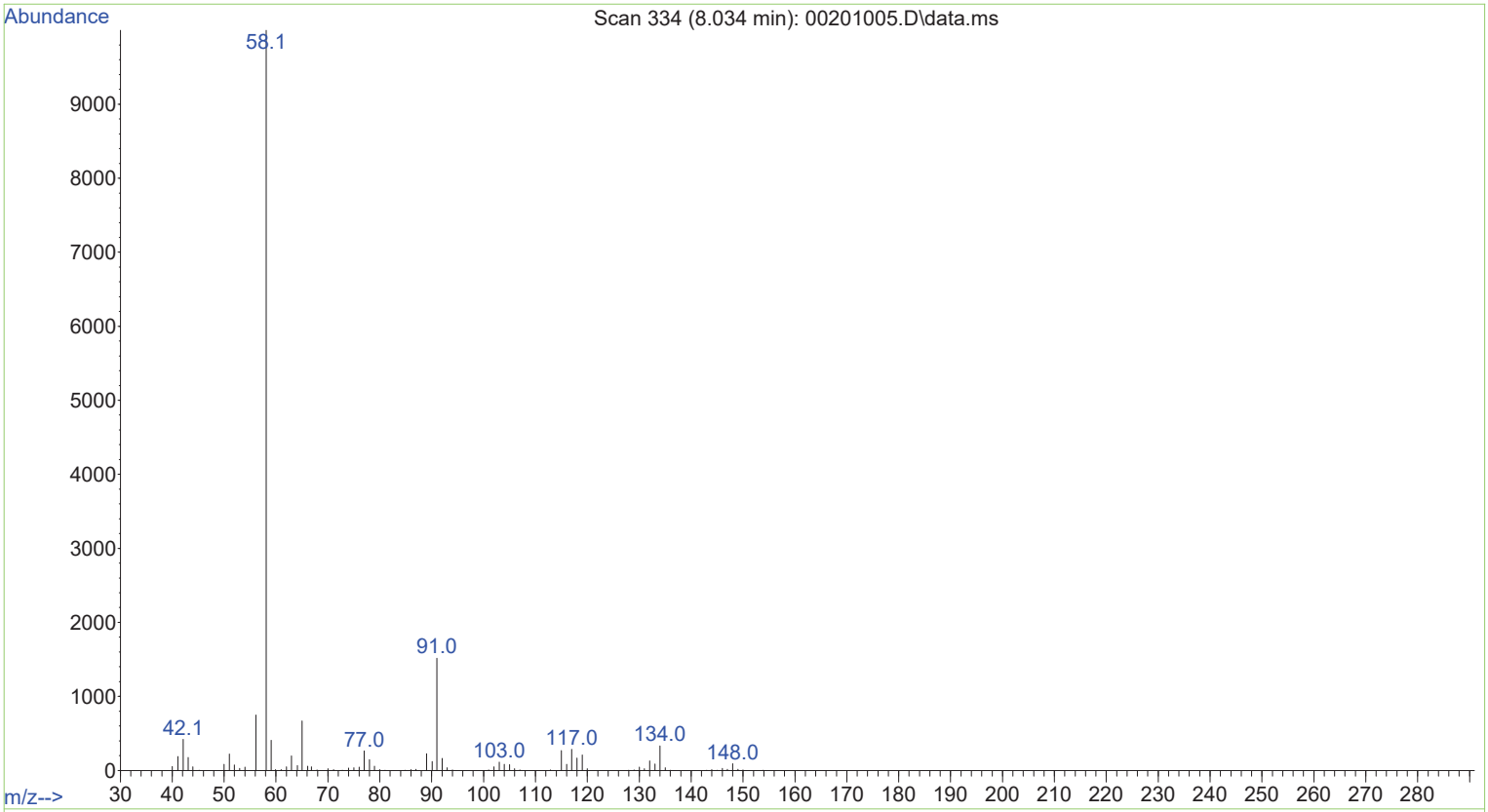
[X] **Tune:** DS **04/14/2025 - HES Autotune**

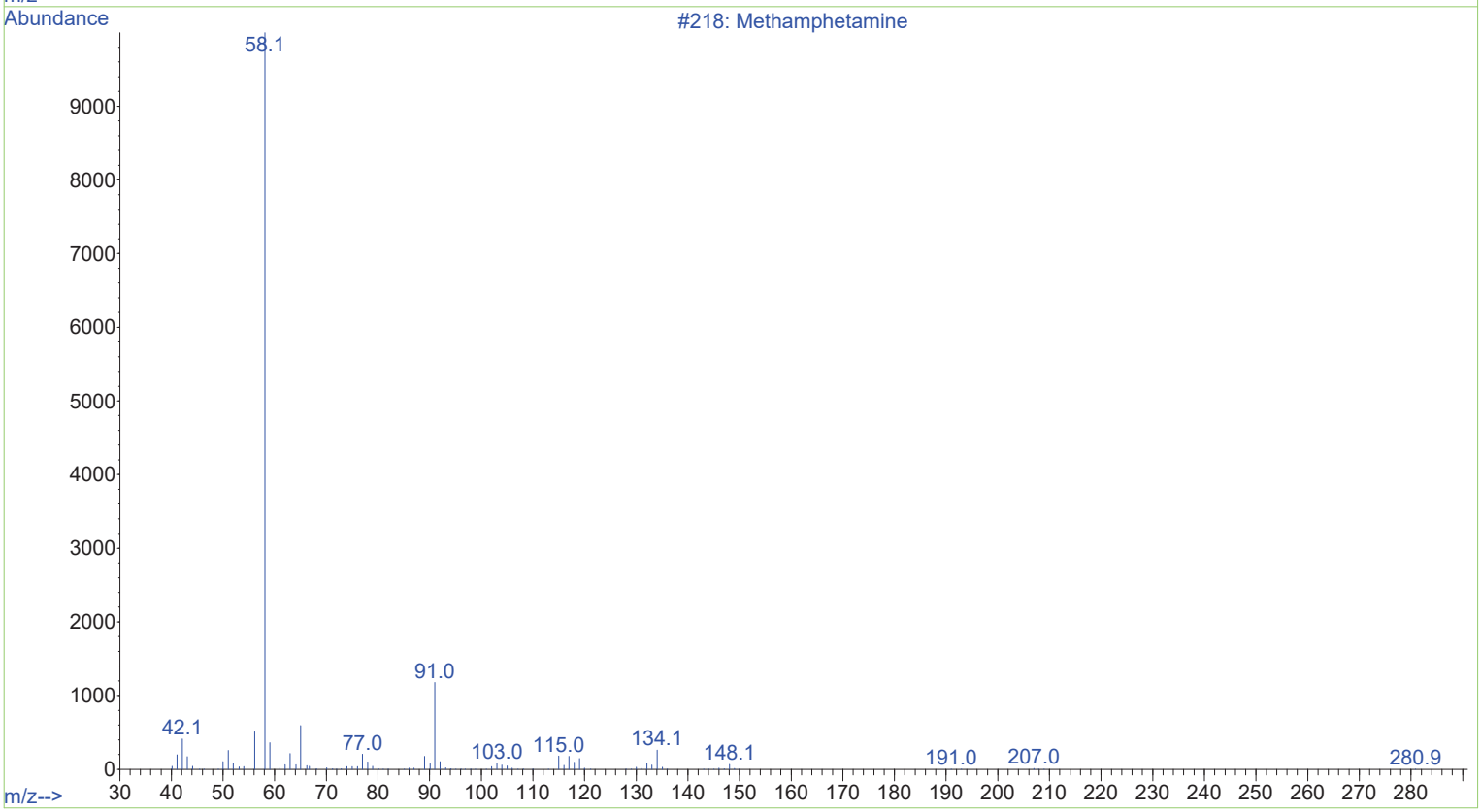
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.039	7.958	8.119
Cocaine	R-24-060	DrugTest35MS	14.692	14.545	14.838
Heroin	R-24-060	DrugTest35MS	16.437	16.272	16.601
Fentanyl	R-24-060	DrugTest35MS	16.513	16.347	16.678
Alprazolam	R-24-060	DrugTest35MS	18.839	18.650	19.027
Eutylone	R-24-066	DrugTest35MS	13.089	12.958	13.219

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\041425\00201005.D
Acquired : 14 Apr 2025 12:48 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

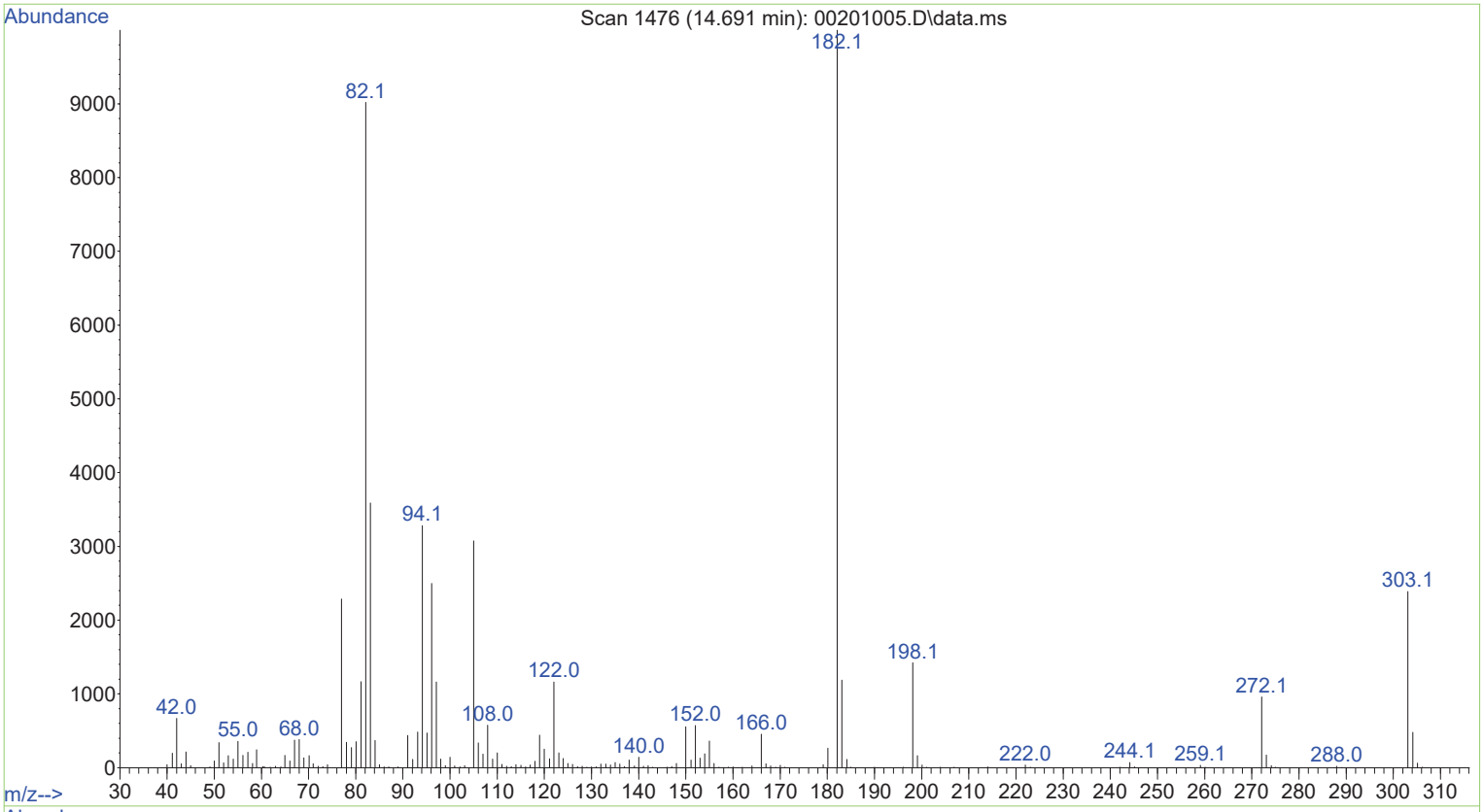


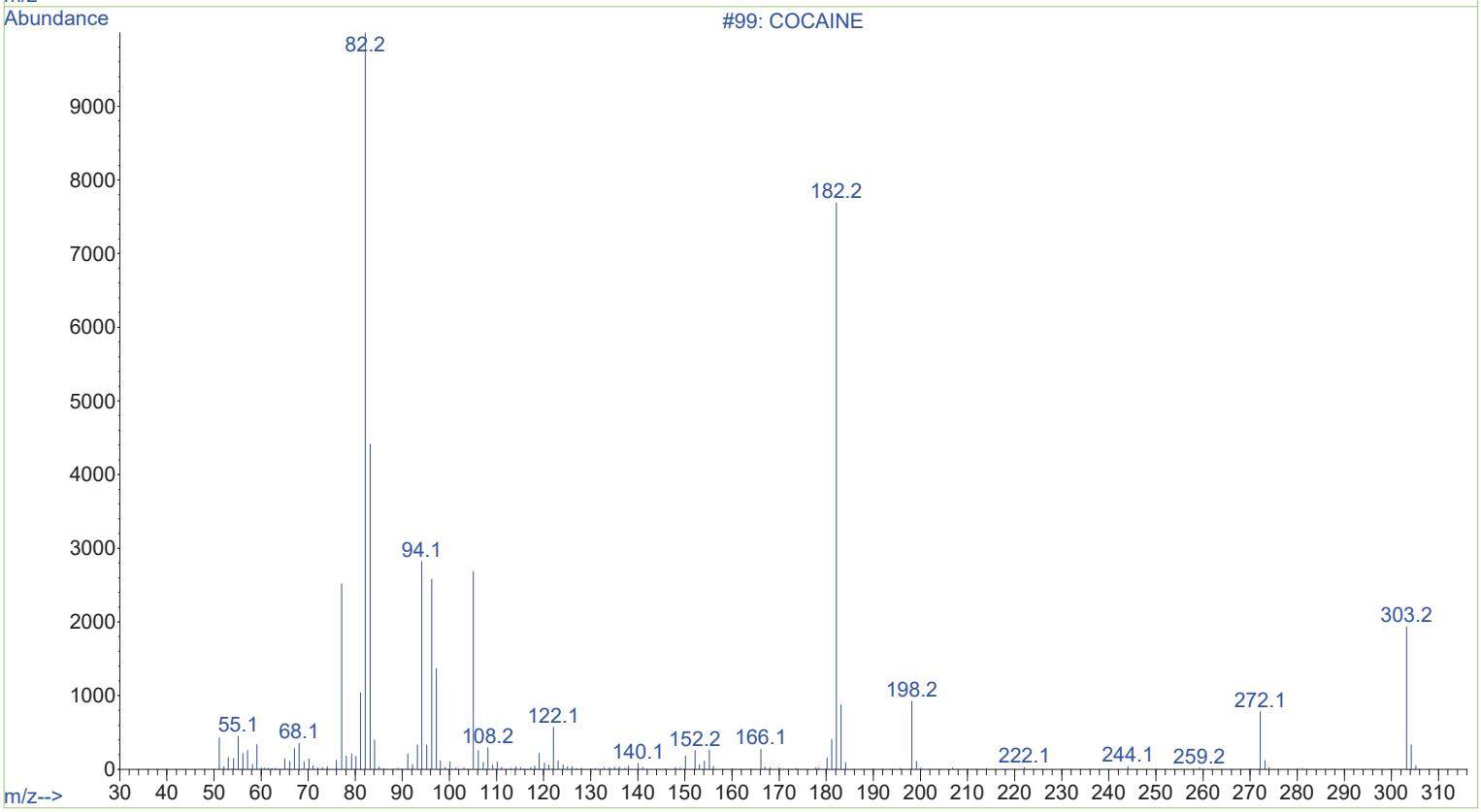
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Acquired   : 14 Apr 2025  12:48     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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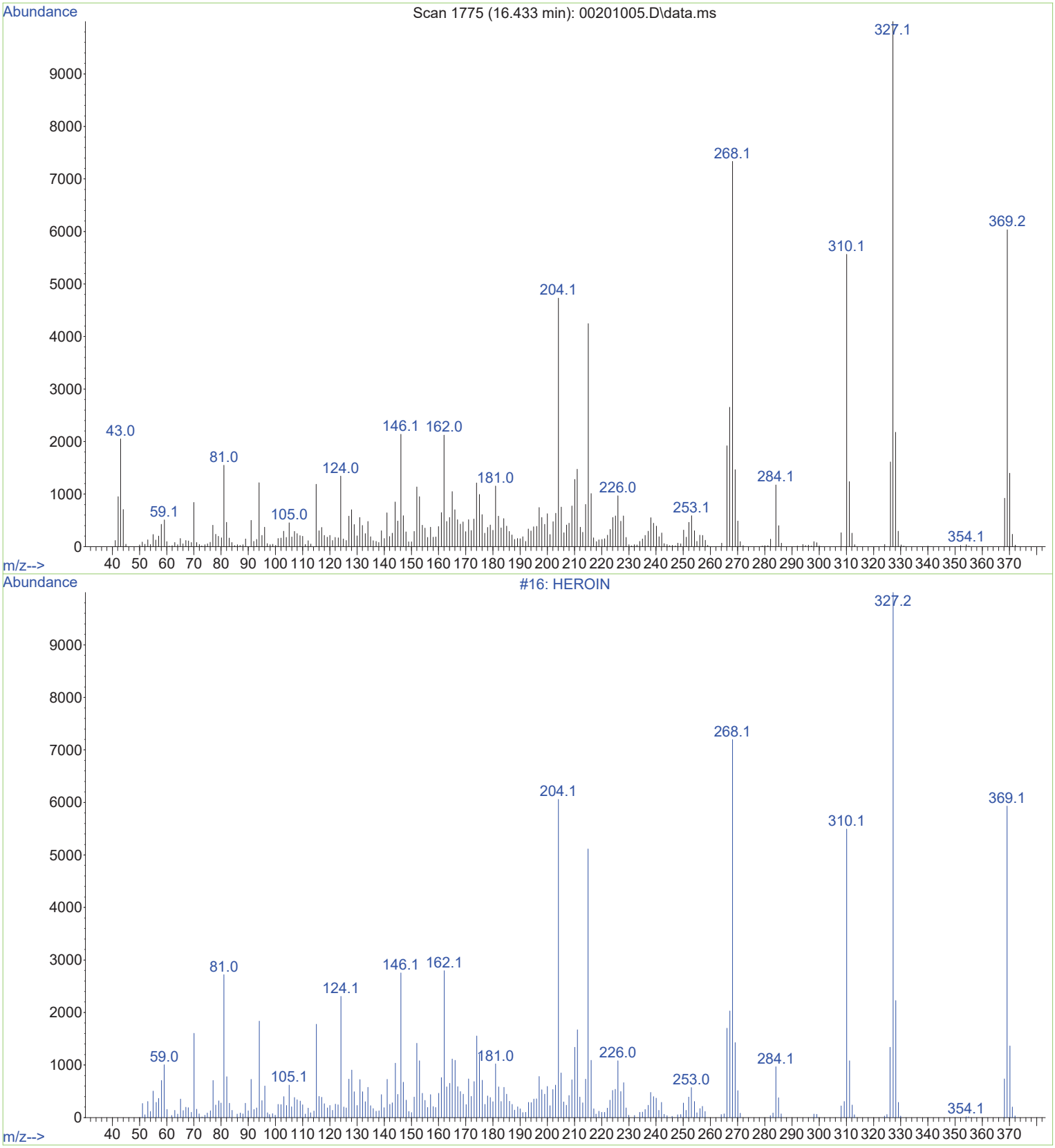


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Acquired : 14 Apr 2025 12:48 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
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Misc Info : in ACN 000002669
Vial Number: 2

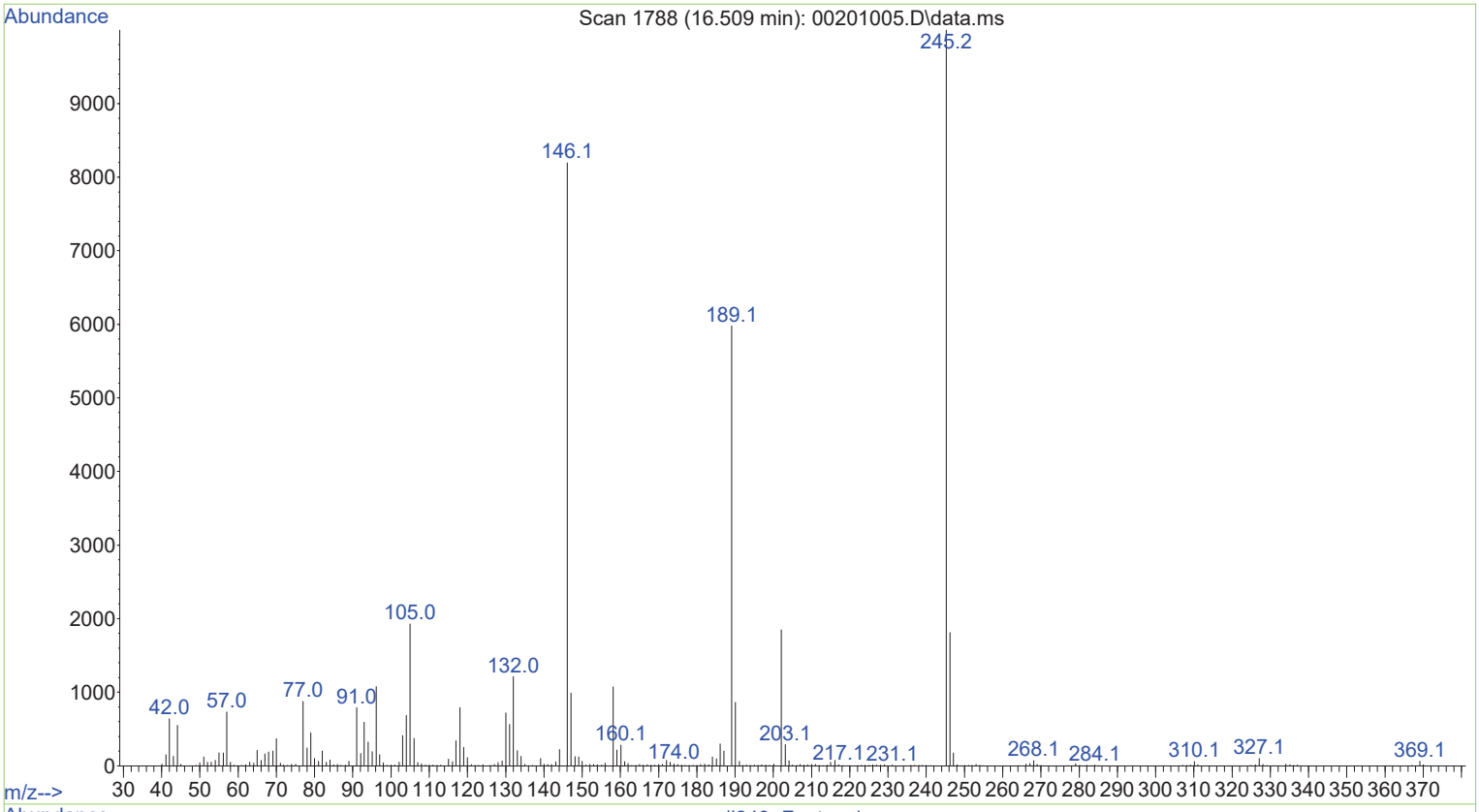


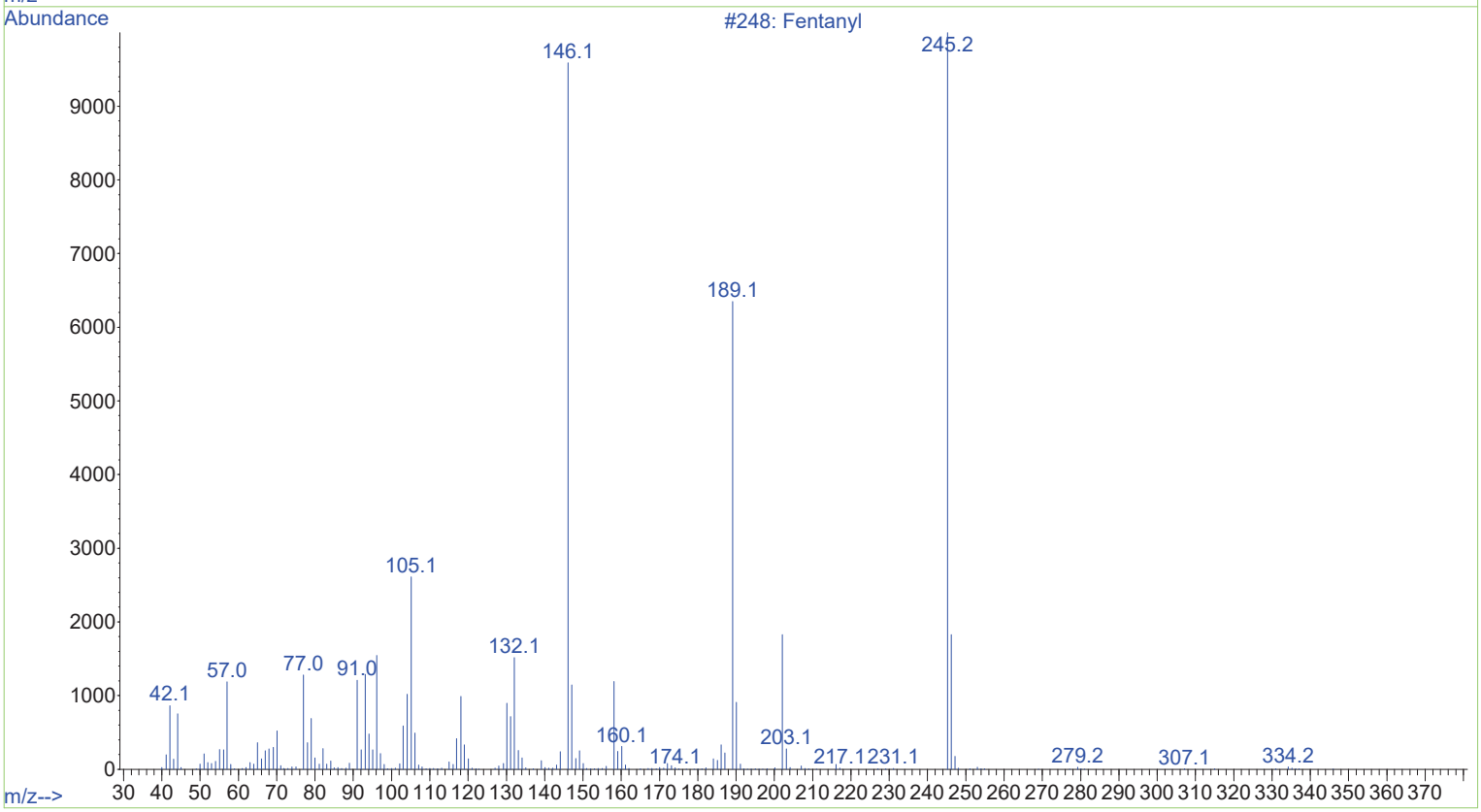


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Acquired   : 14 Apr 2025  12:48     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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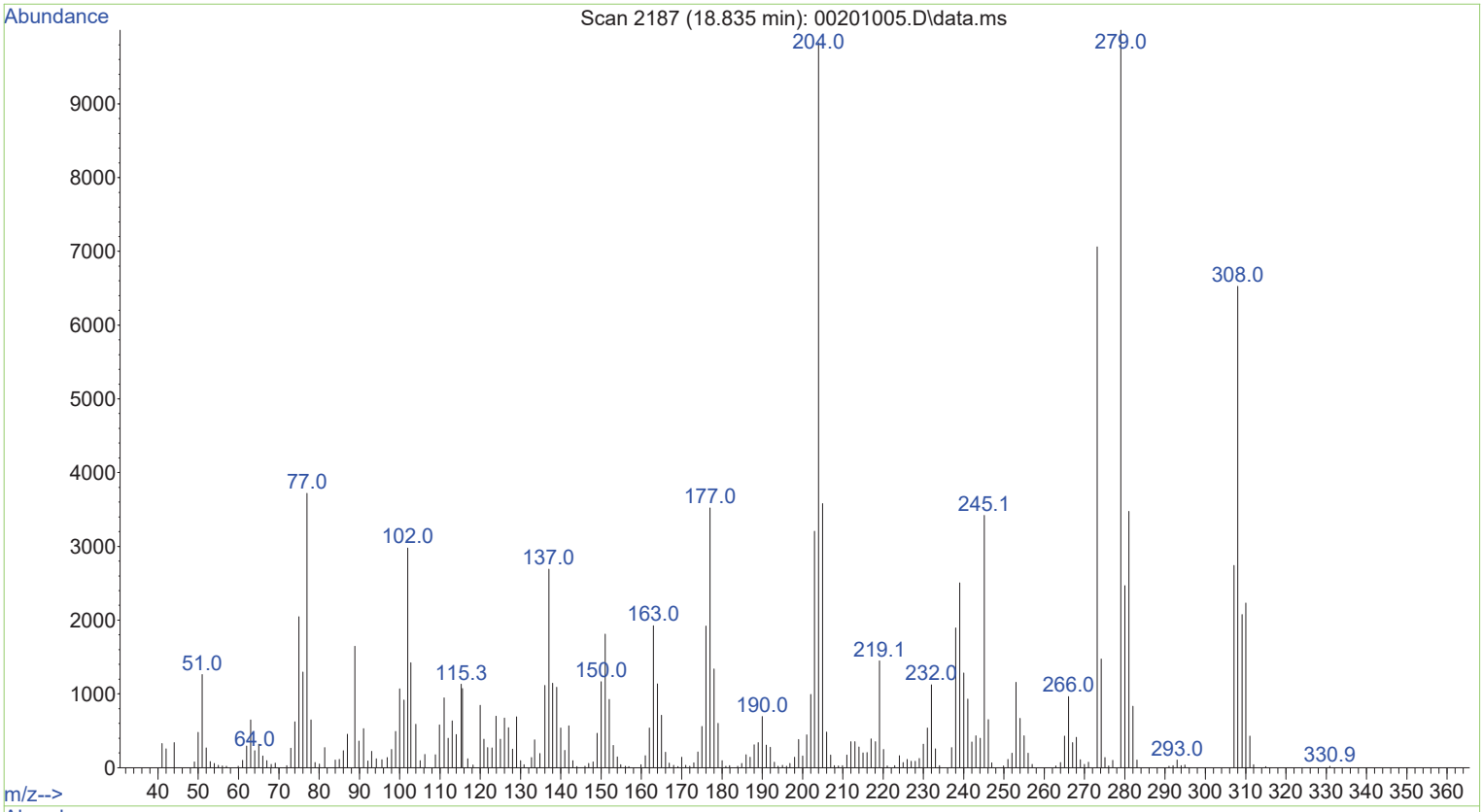


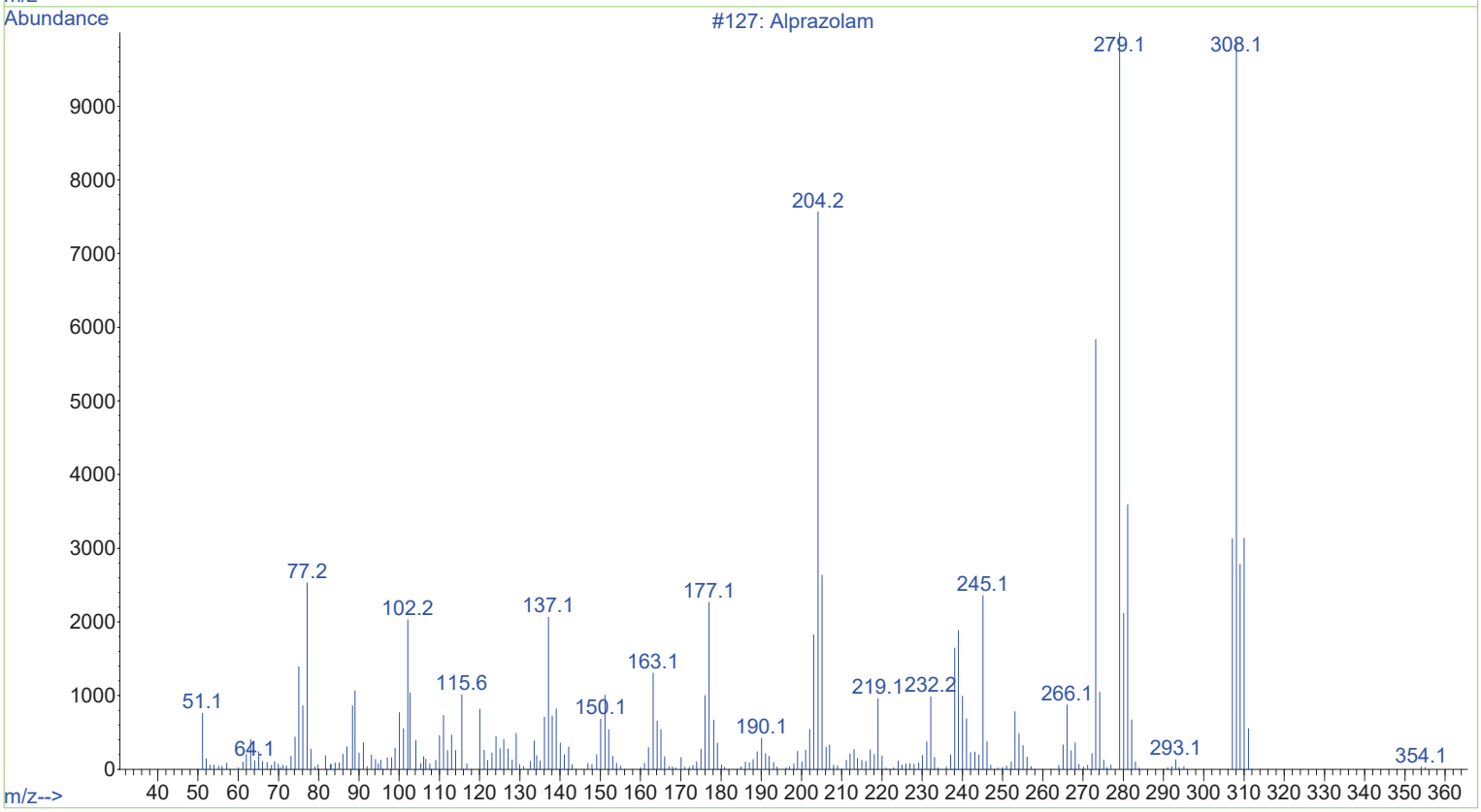
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Acquired : 14 Apr 2025 12:48 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



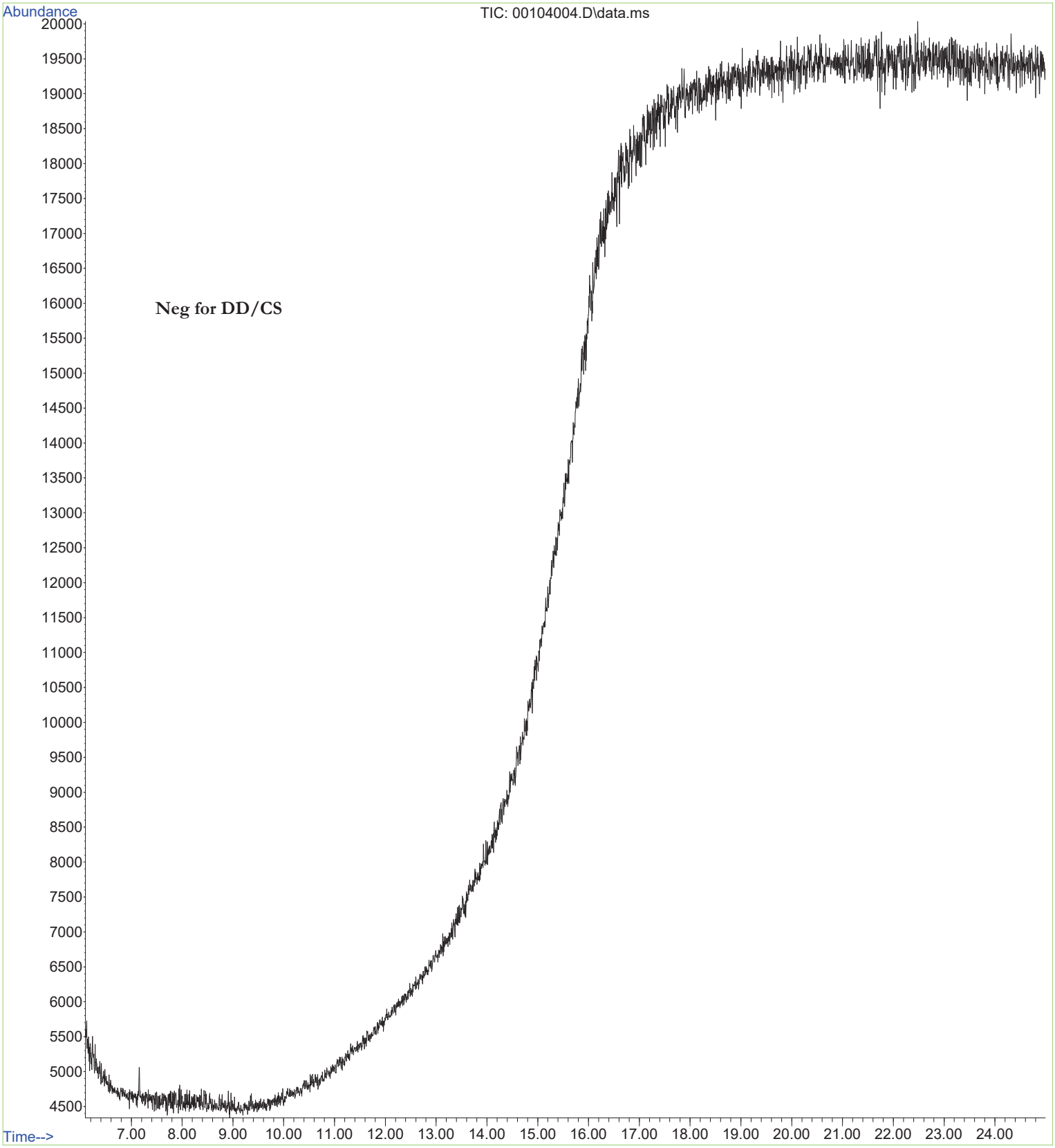


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Acquired : 14 Apr 2025 12:48 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

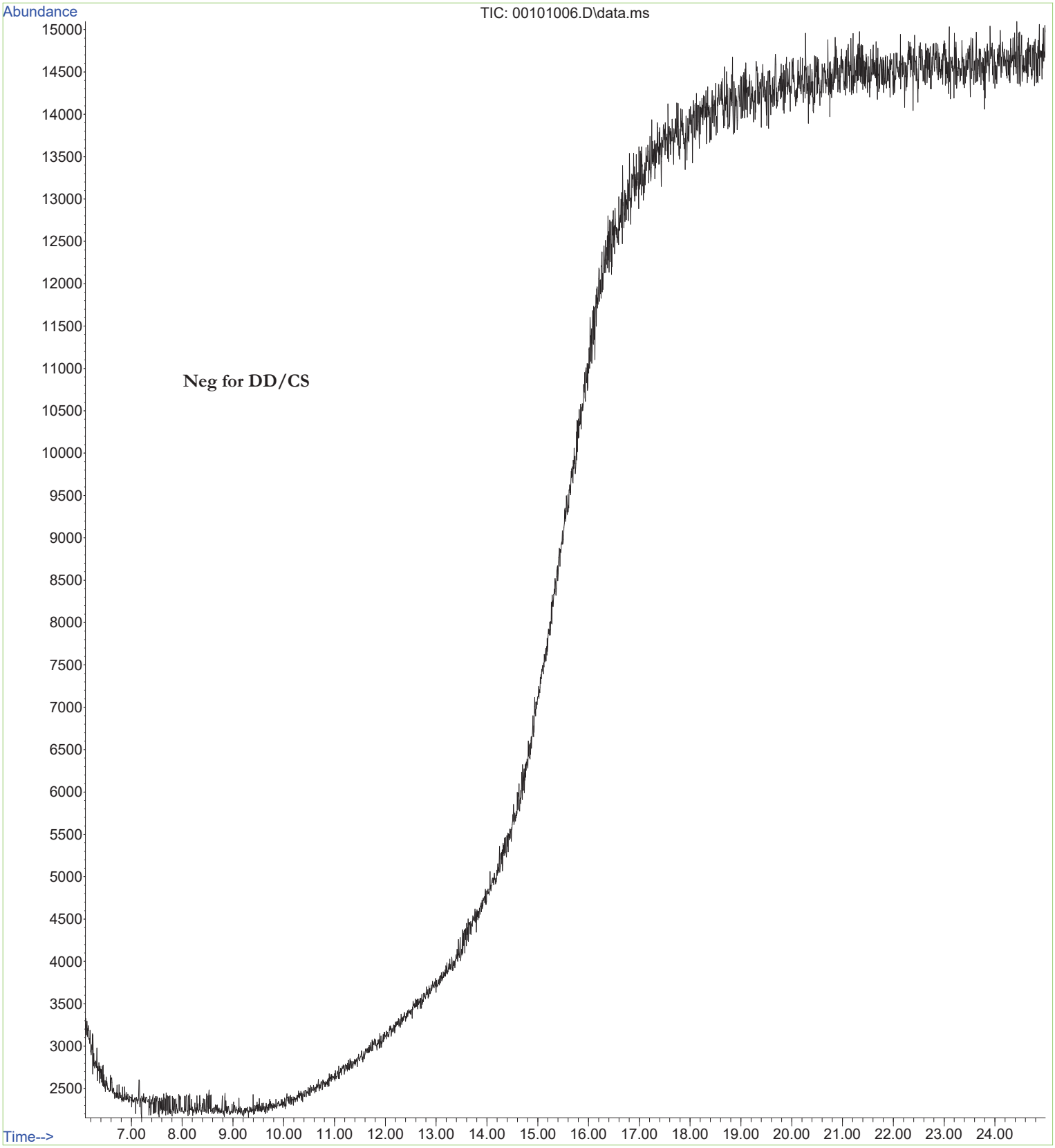




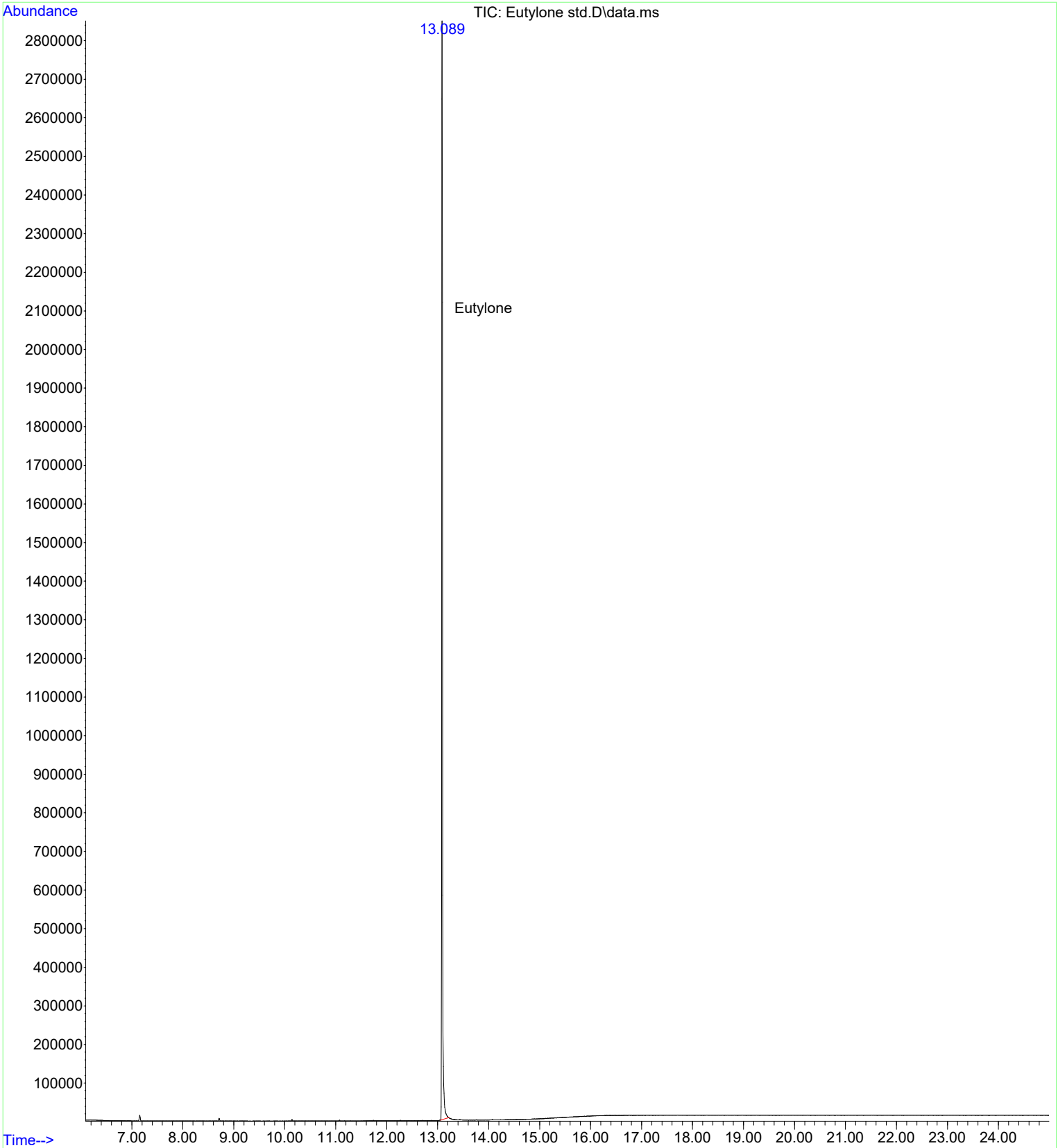
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Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



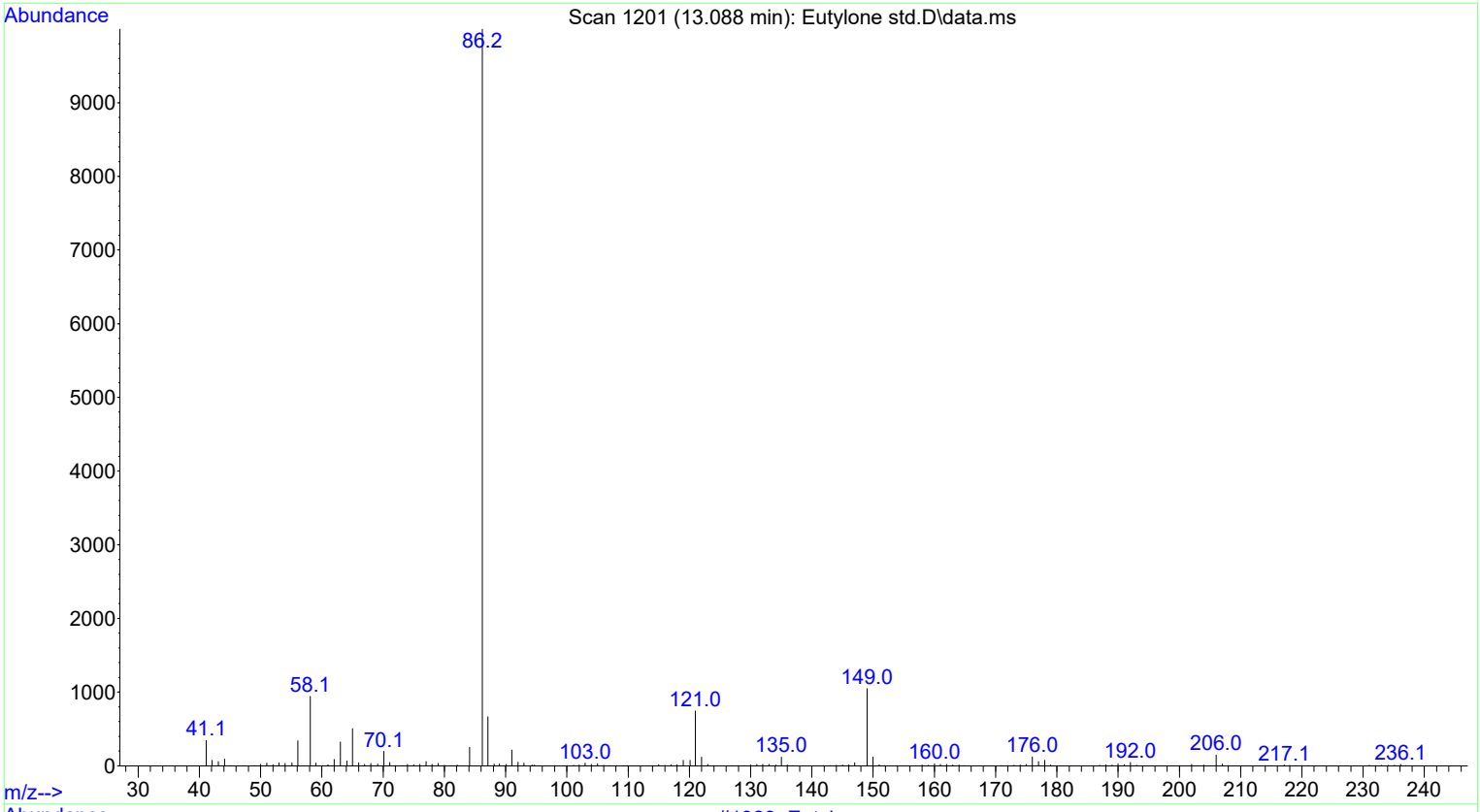
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... 2025 Data\041425\00101006.D
Acquired : 14 Apr 2025 13:17 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

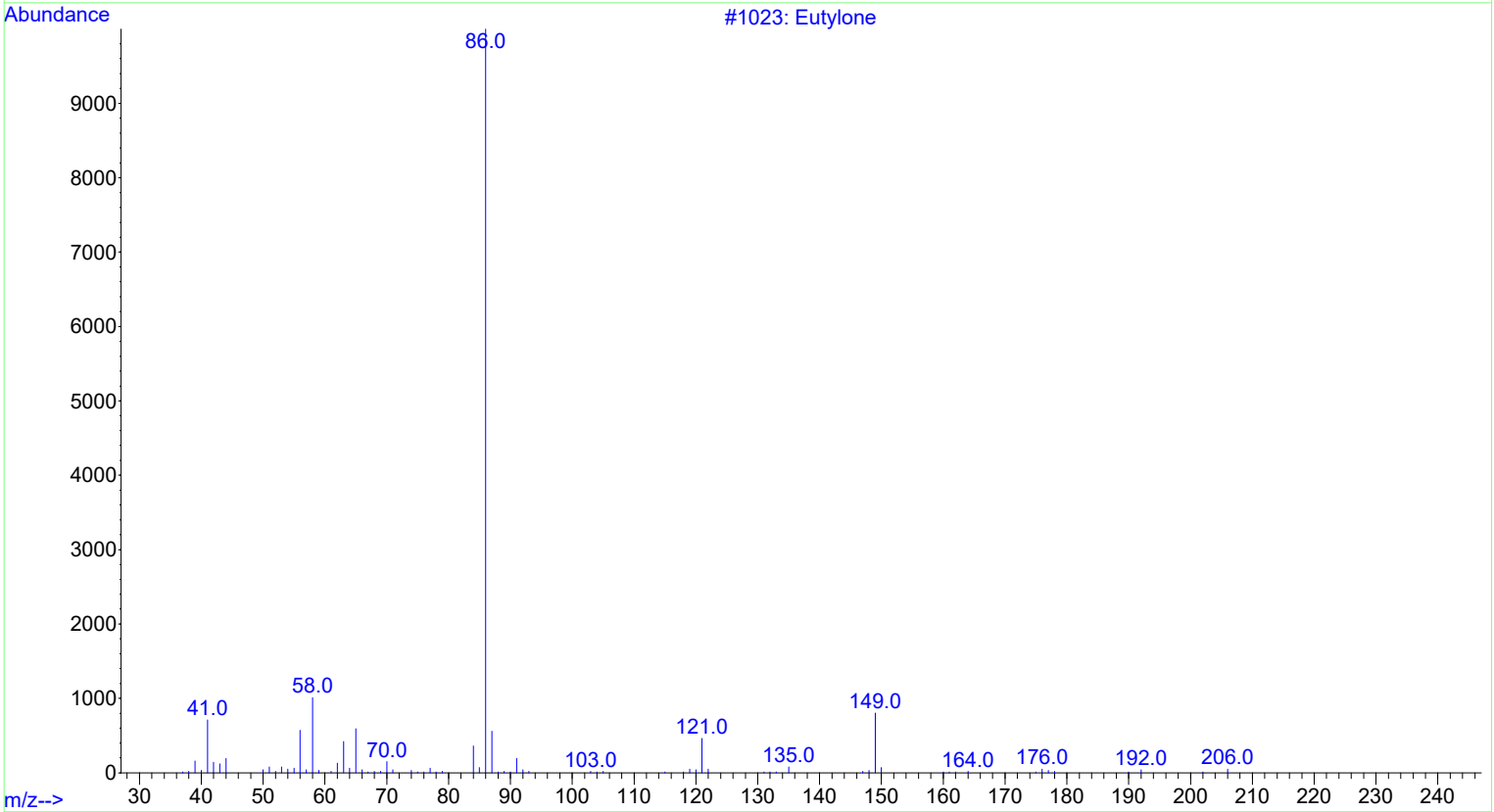


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Instrument : GCMS #4
Sample Name: Eutylone std (R-24-066) 000002715
Misc Info : RTdeterrmination 000002715
Vial Number: 133

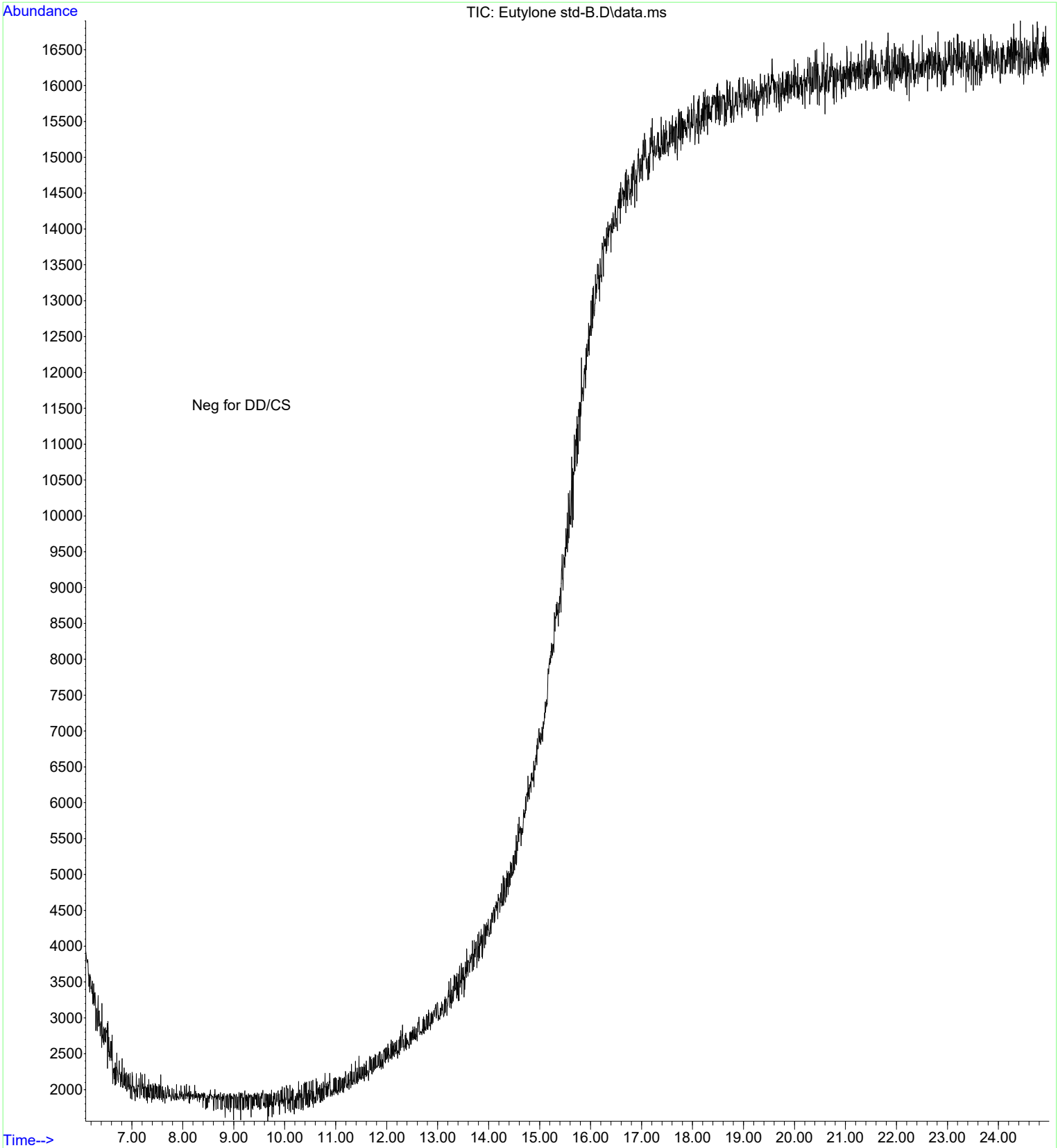


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Acquired : 16 Apr 2025 16:54 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Eutylone std (R-24-066) 000002715
Misc Info : RTdeterrmination 000002715
Vial Number: 133





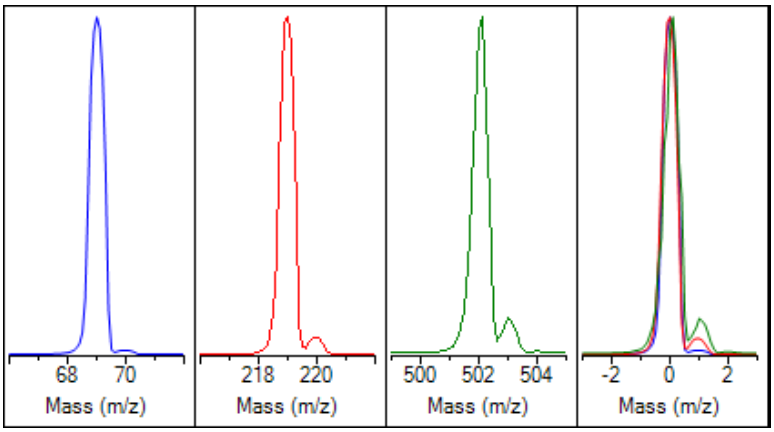
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... td-B.D
Acquired : 16 Apr 2025 16:26 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to Eutylone std (R-24-066) 000002787
Misc Info : Hexanes(C_22-0065A)/base extracted w/ R-24-059 000002787
Vial Number: 131



High Efficiency Source Autotune - 5977

Tune timestamp: 4/22/2025 9:13 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



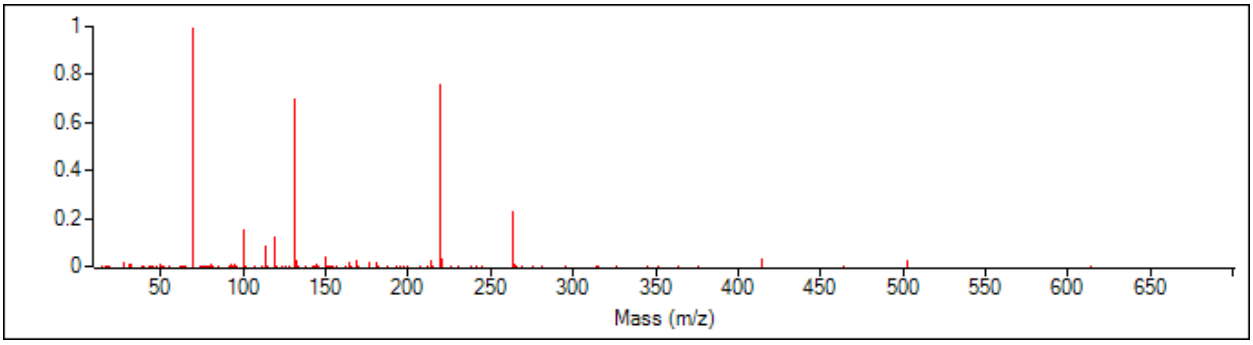
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	103
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2437
Repeller	10.77	Amu Offset	136.69
Ion Focus	140.7	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.25	EM Volts	2204.9
Post Extractor 1	15	Extractor Lens	12.10
Post Extractor 2	31	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	487,001	100.0%	0.61
219.00	388,488	79.8%	0.60
502.10	13,864	2.8%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.87e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	110	69.00	464,896	1,630,783



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	464,896	100.0%	70.00	5,487	1.2%
219.00	219.00	355,200	76.4%	220.00	16,840	4.7%
502.00	502.10	11,803	2.5%	503.10	1,174	9.9%

Air/Water Check: H20 ~0.2% N2 ~1.7% O2 ~0.6% CO2 ~0.2% N2/H20 ~1026.5%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 9160.422

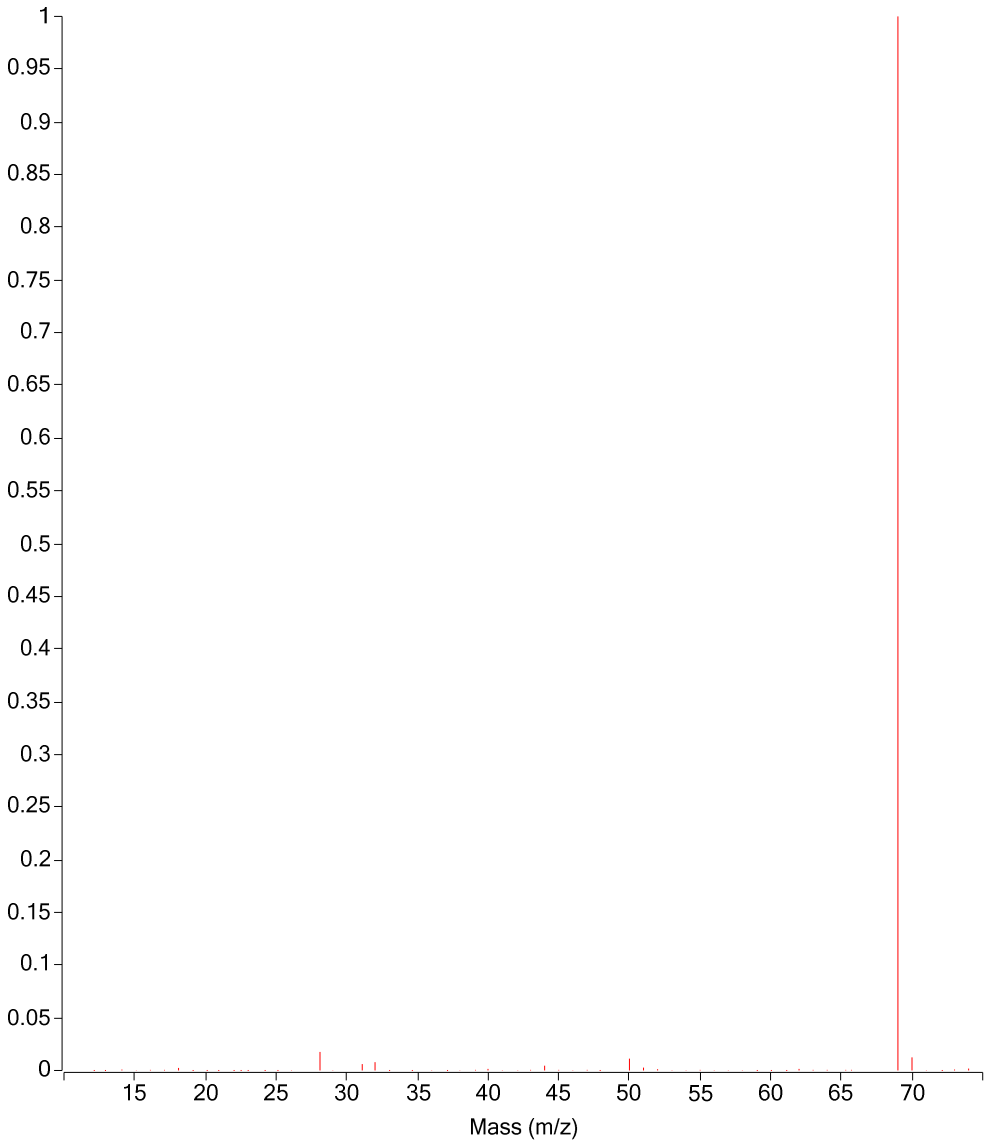
Repeller maximum 35 volts using ion 219; Gain Factor 0.0916

Mass Gain Values(Scan Speed): 103(3) 101(2) 114(1) 125(0) 178(FS1) 186(FS2) 141(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.7	136.7	136.7	136.7	136.7	136.7	136.7
Entrance Lens Offset	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Tue Apr 22 09:03:34 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.23	Water%	(counts=2013)
28/69 =	1.76	Nitrogen%	(counts=15470)
32/69 =	0.78	Oxygen%	(counts=6884)
44/69 =	0.46	Carbon Dioxide%	(counts=4028)
28/18 =	768.50	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.72E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.04	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.04	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.18	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.66	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.20	OK
Ratio of 219 to 69 should be > 40% and is	80.18	OK
Ratio of 502 to 69 should be > 2.4% and is	3.57	OK
Mass 69 Precursor (<= 3%)	0.56	OK
Mass 219 Precursor (<= 6%)	1.54	OK
Mass 502 Precursor (<= 12%)	4.27	OK

597x Air and Water Check
Tue Apr 22 09:17:38 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.16	OK
Ratio of 28 to 69 (<10%)	1.74	OK
Electron Multiplier Voltage	2205	OK

Tune portion of System Verification passed.

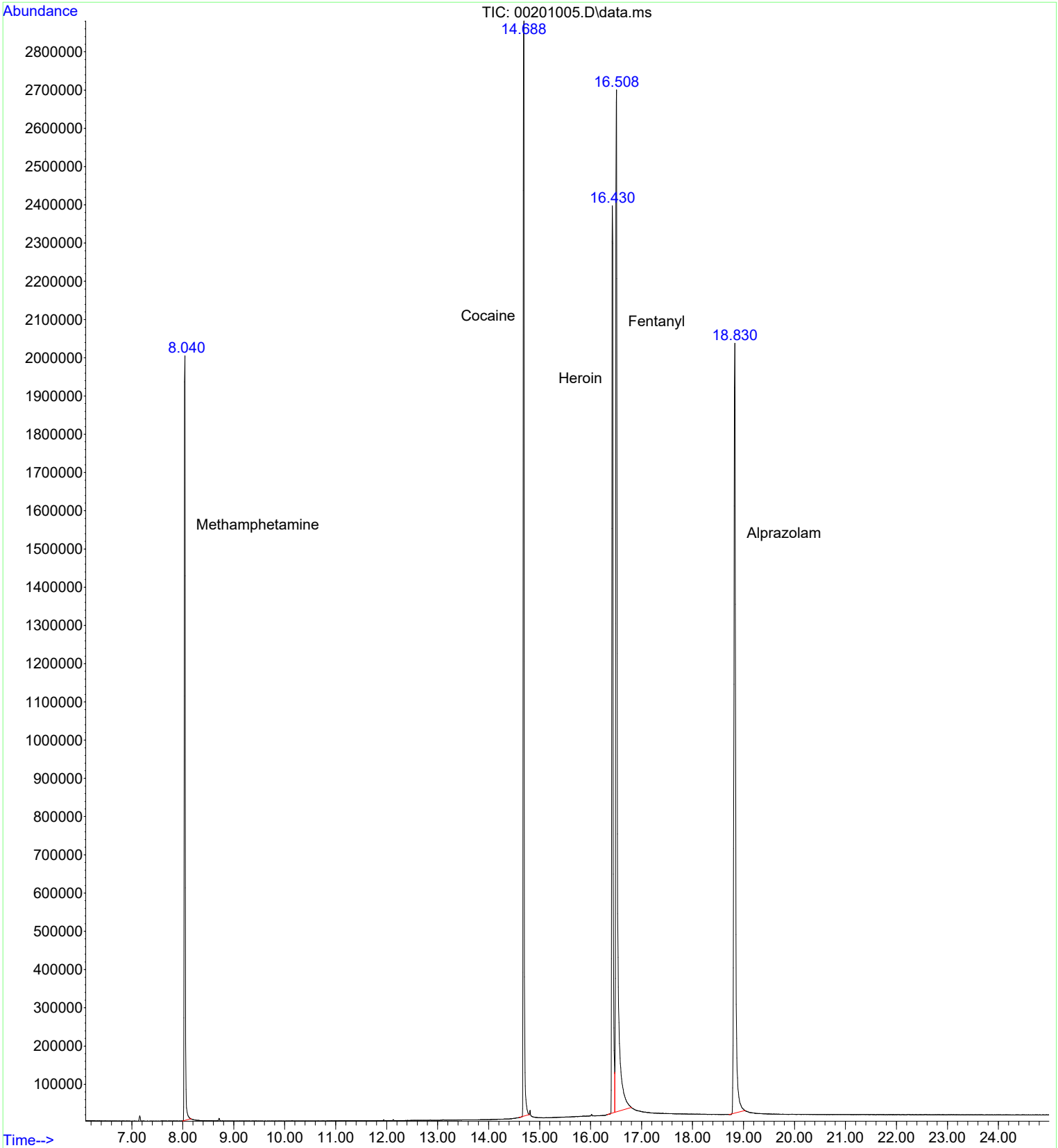
BCCL GC/MS #4
Retention Times for the Week of:

04/21/2025 - 04/27/2025

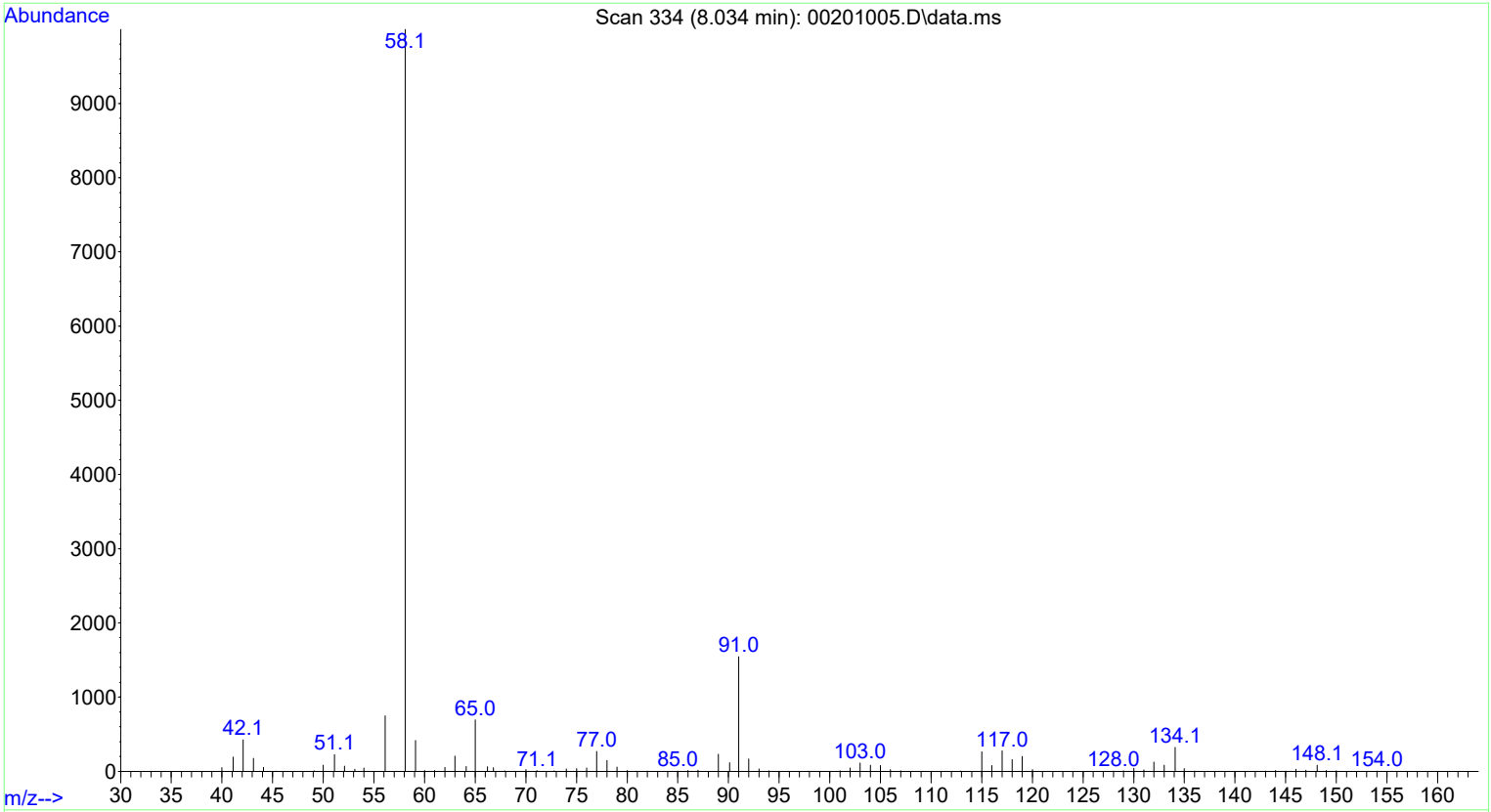
[X] **Tune:** DS **04/22/2025 - HES Autotune**

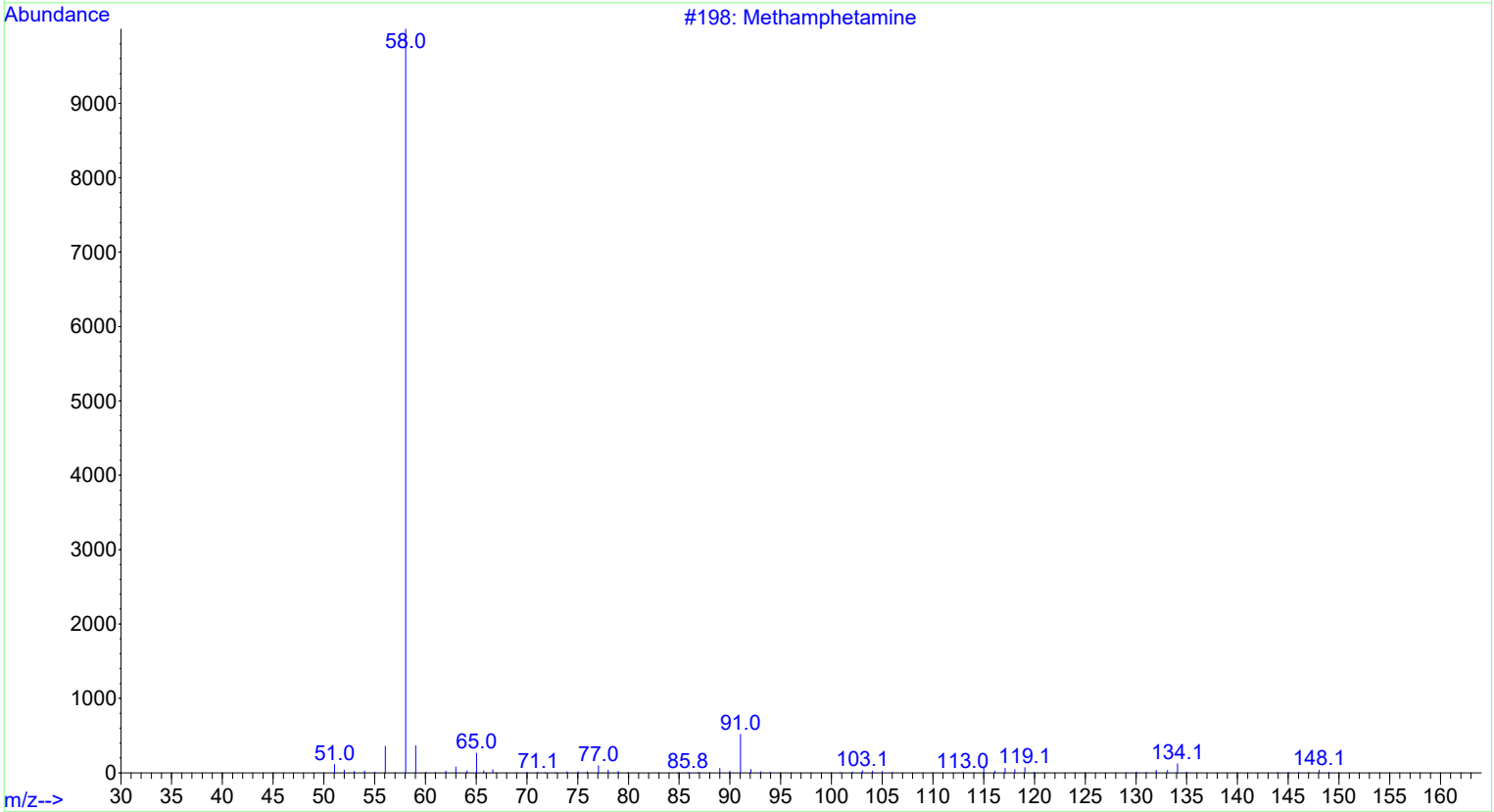
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.040	7.959	8.120
Cocaine	R-24-060	DrugTest35MS	14.688	14.541	14.834
Heroin	R-24-060	DrugTest35MS	16.430	16.265	16.594
Fentanyl	R-24-060	DrugTest35MS	16.508	16.342	16.673
Alprazolam	R-24-060	DrugTest35MS	18.830	18.641	19.018

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\042225\00201005.D
Acquired : 22 Apr 2025 10:38 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

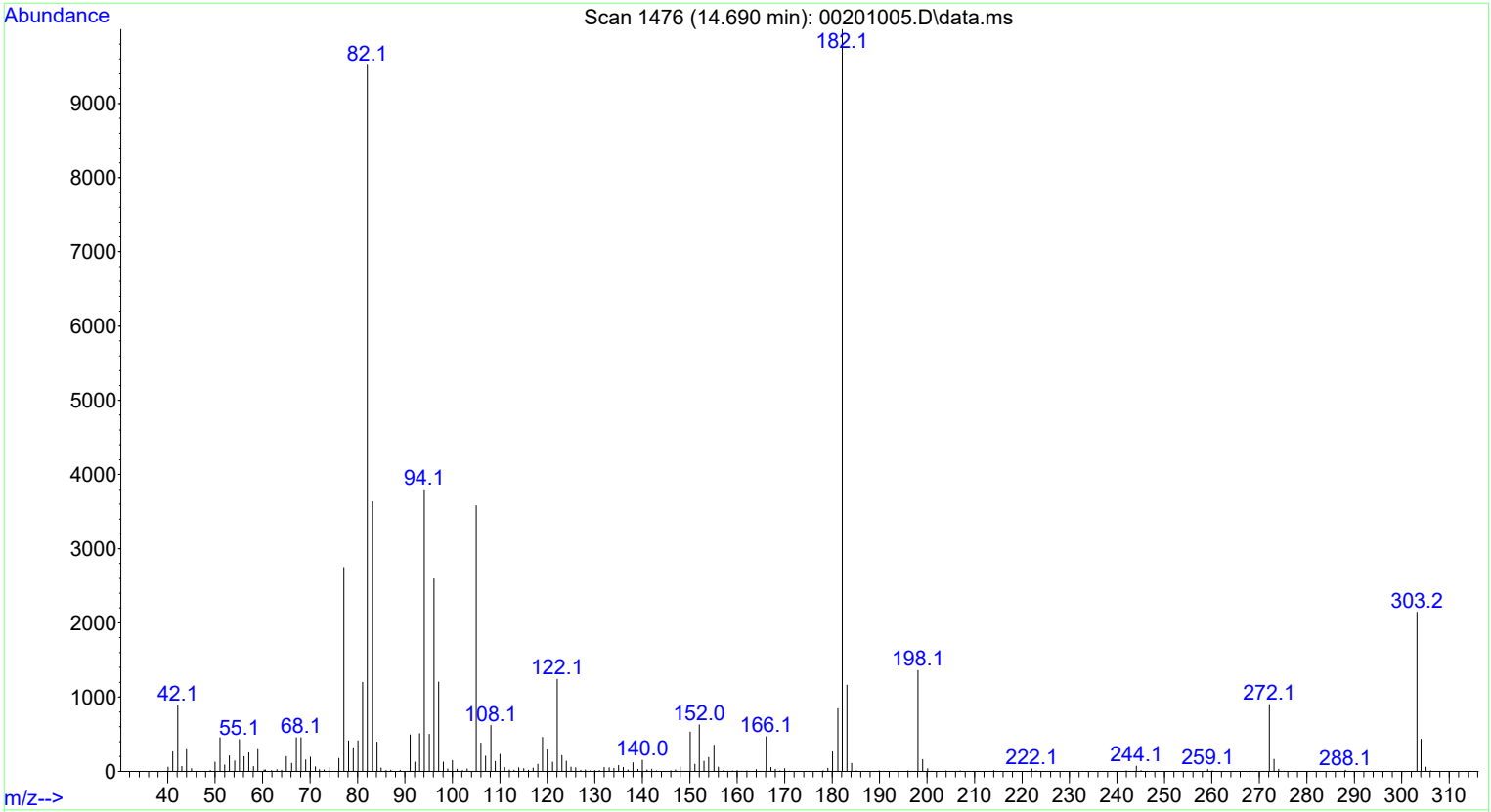


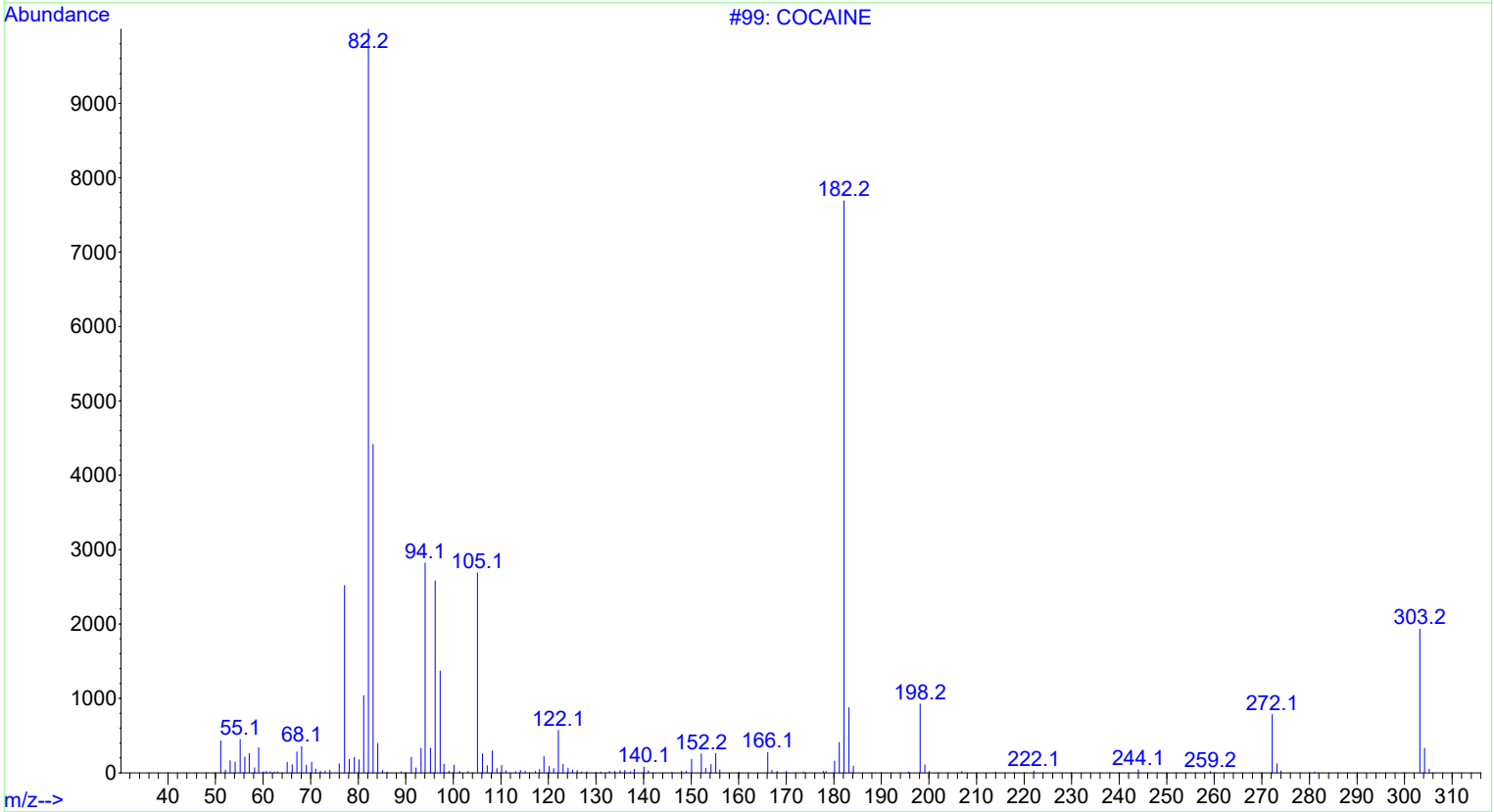
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Acquired : 22 Apr 2025 10:38 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



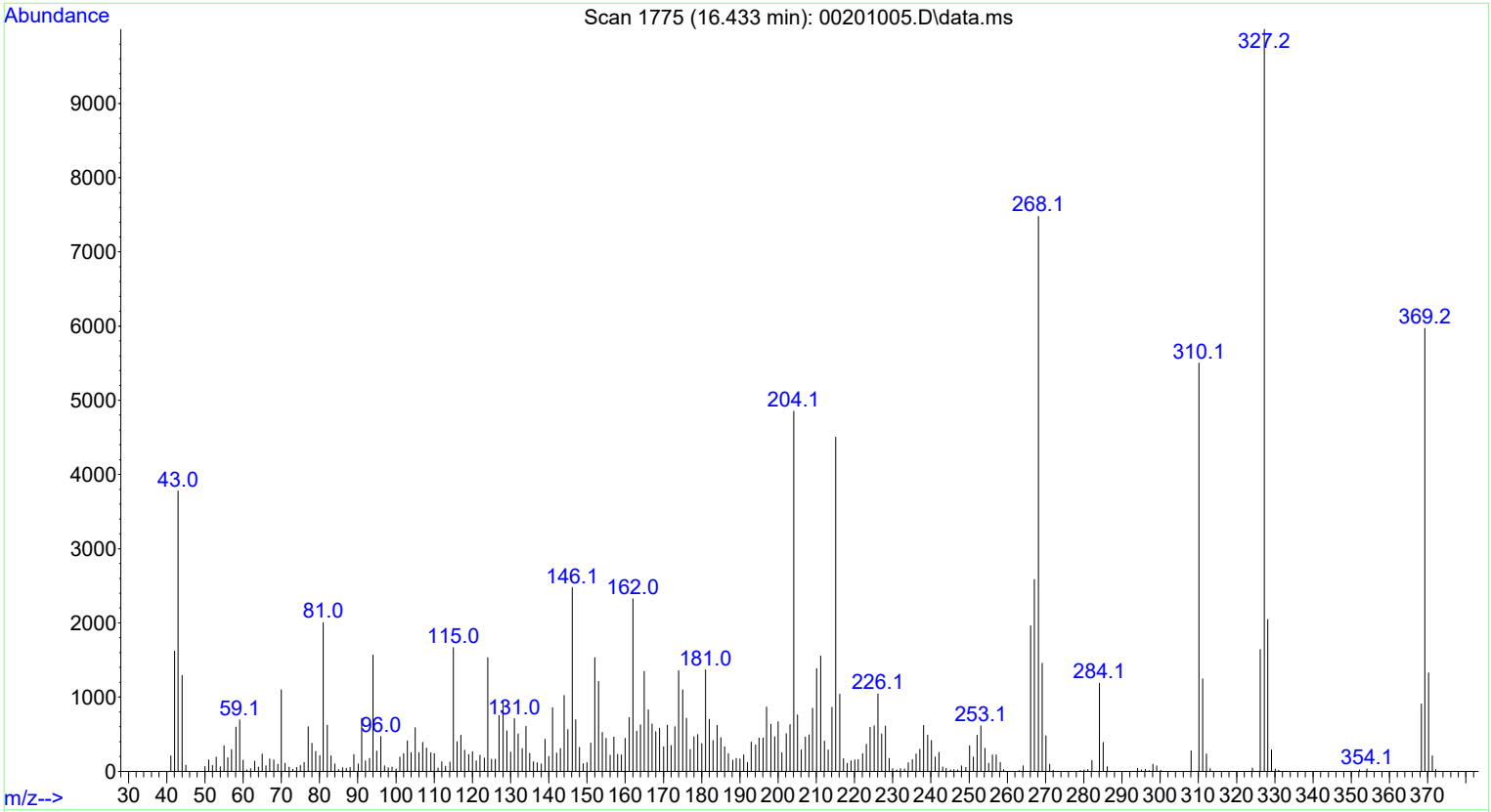


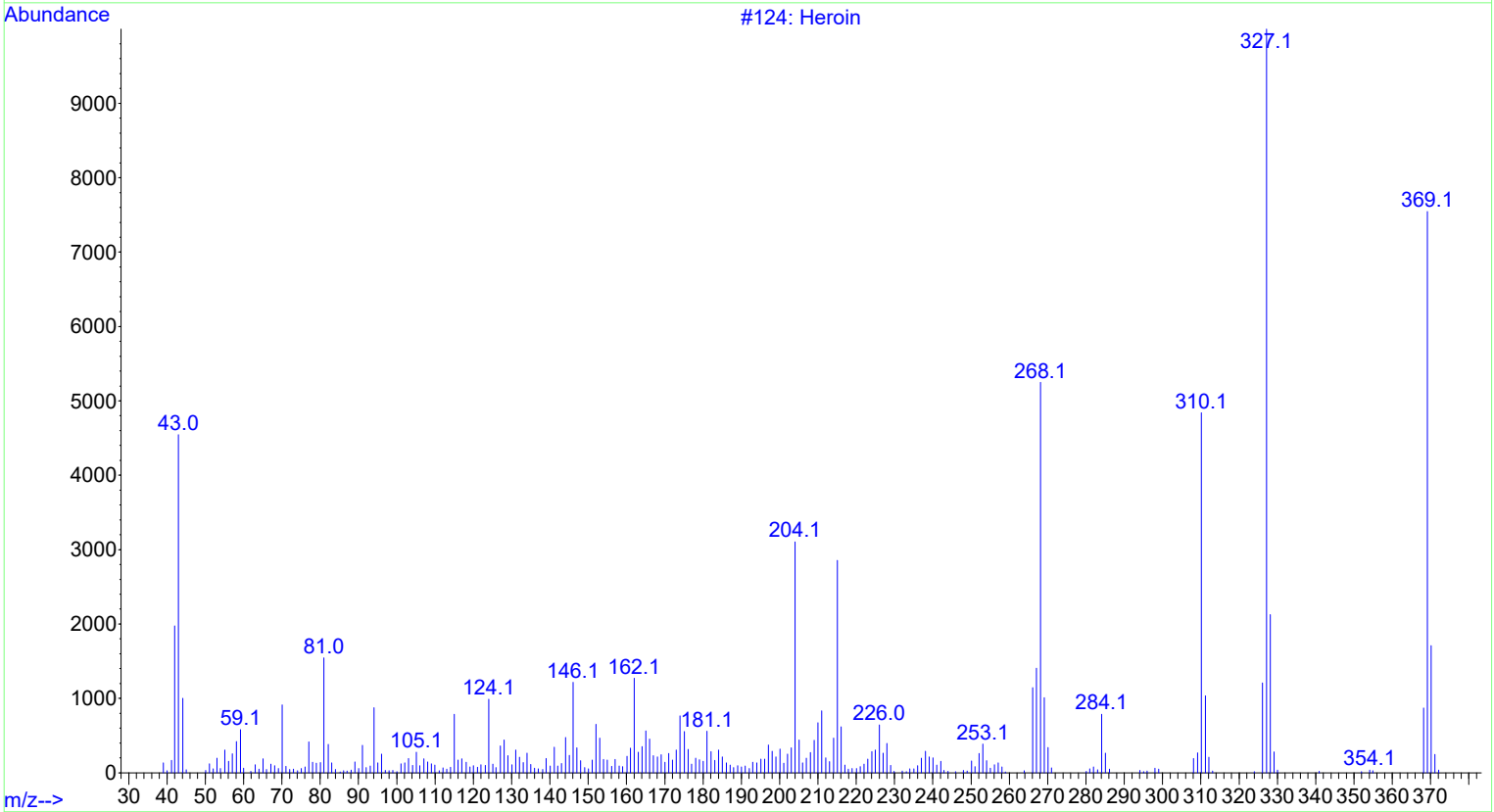
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
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Acquired : 22 Apr 2025 10:38 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



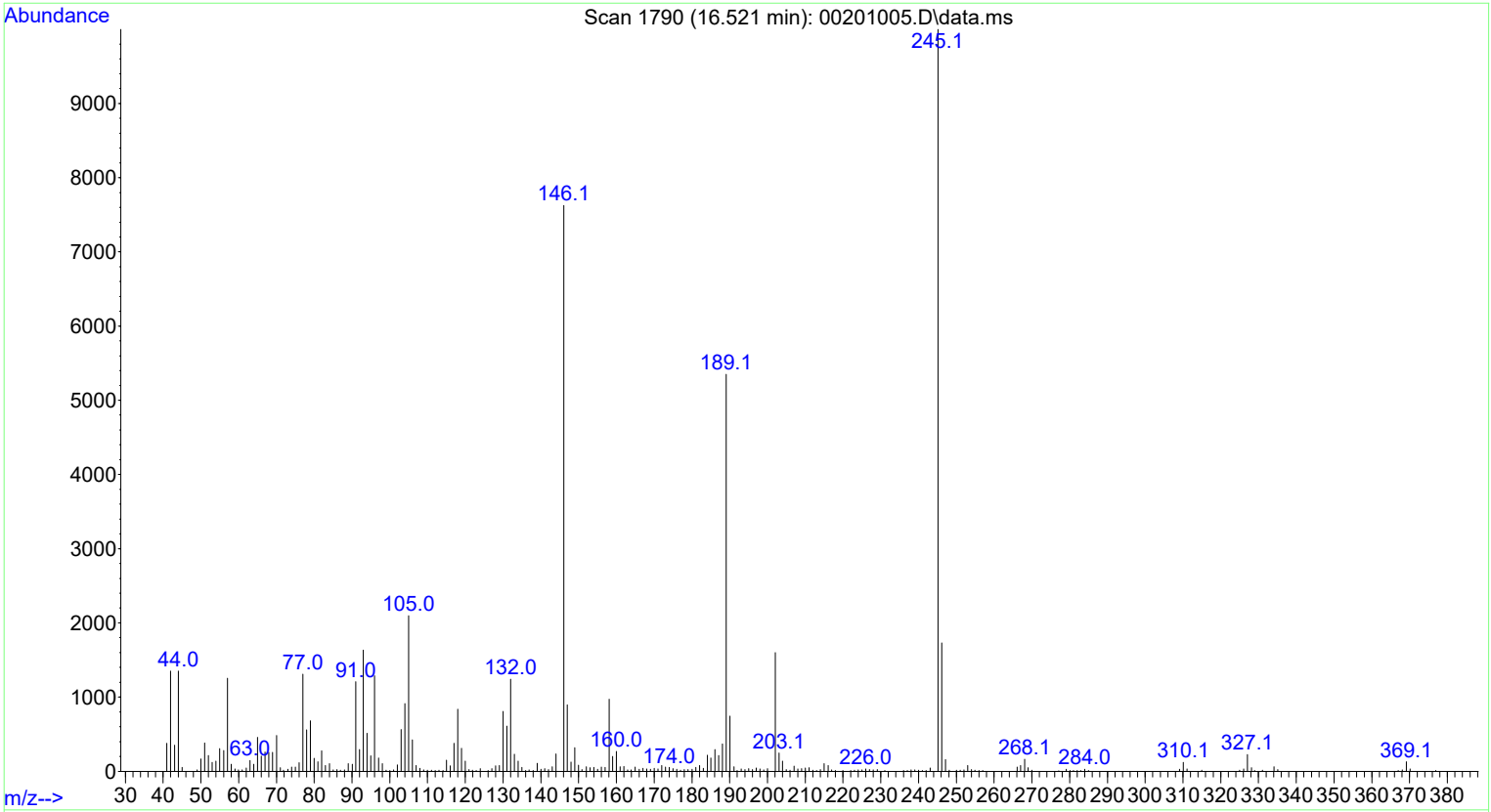


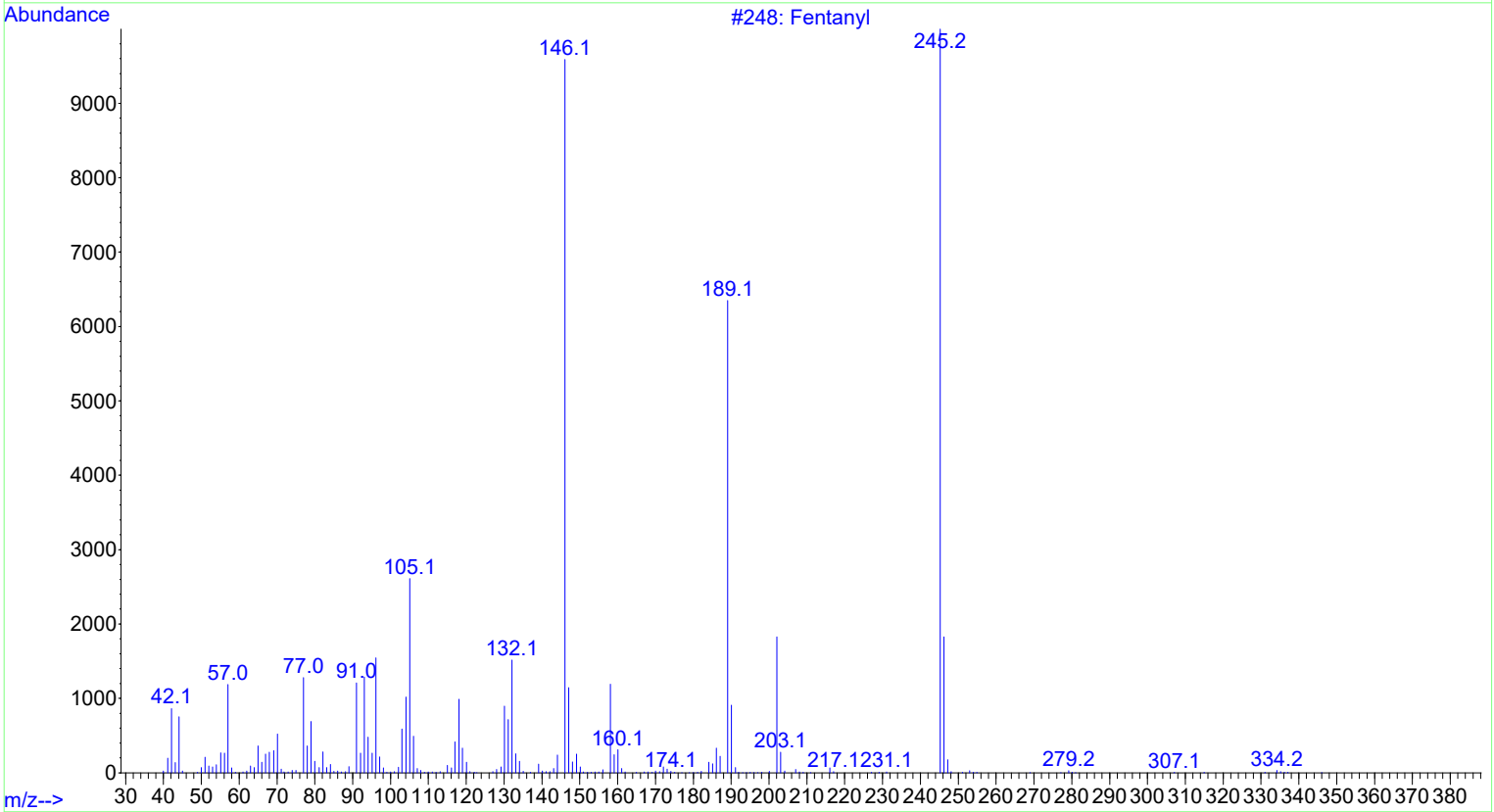
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Acquired : 22 Apr 2025 10:38 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



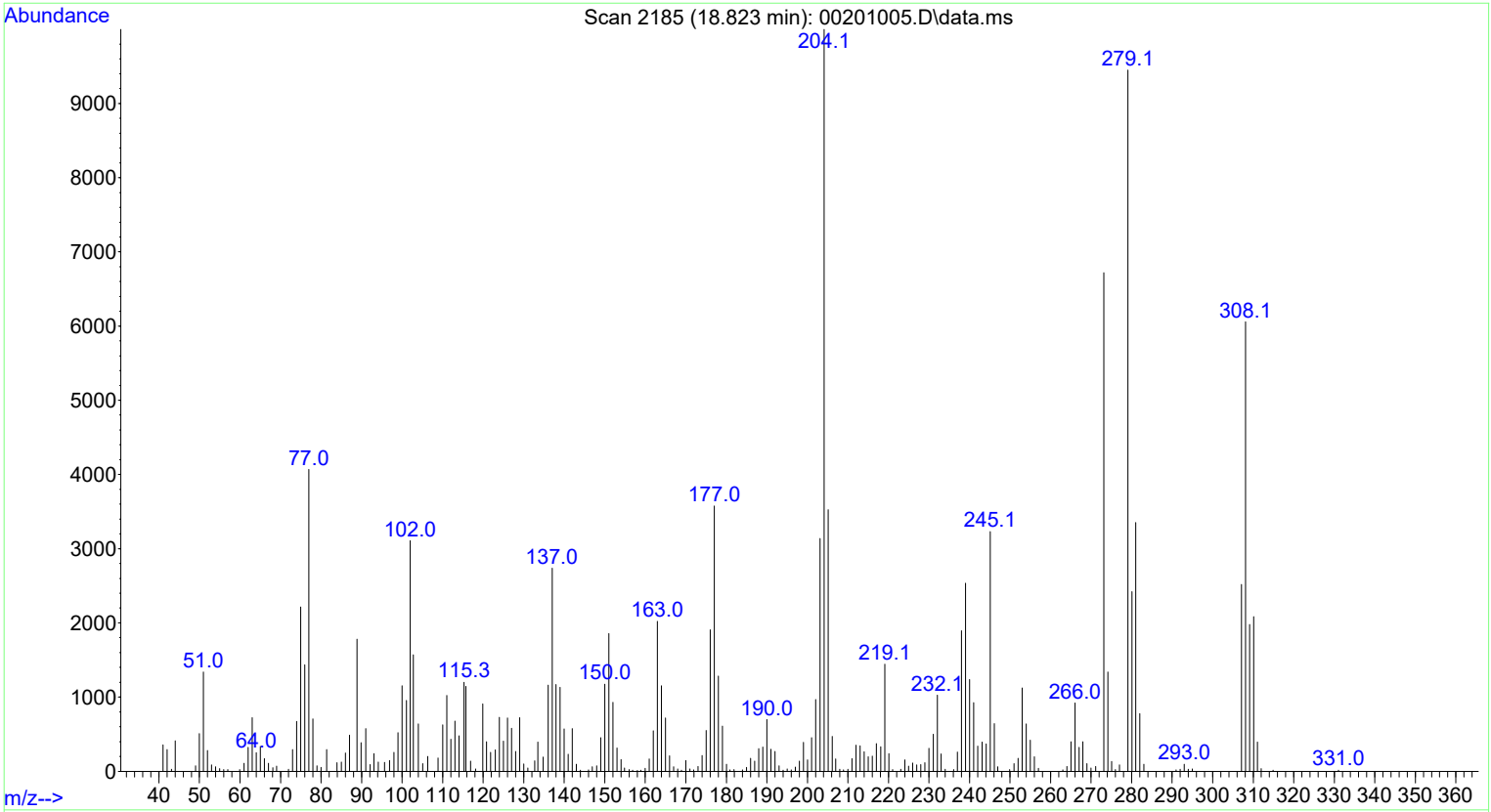


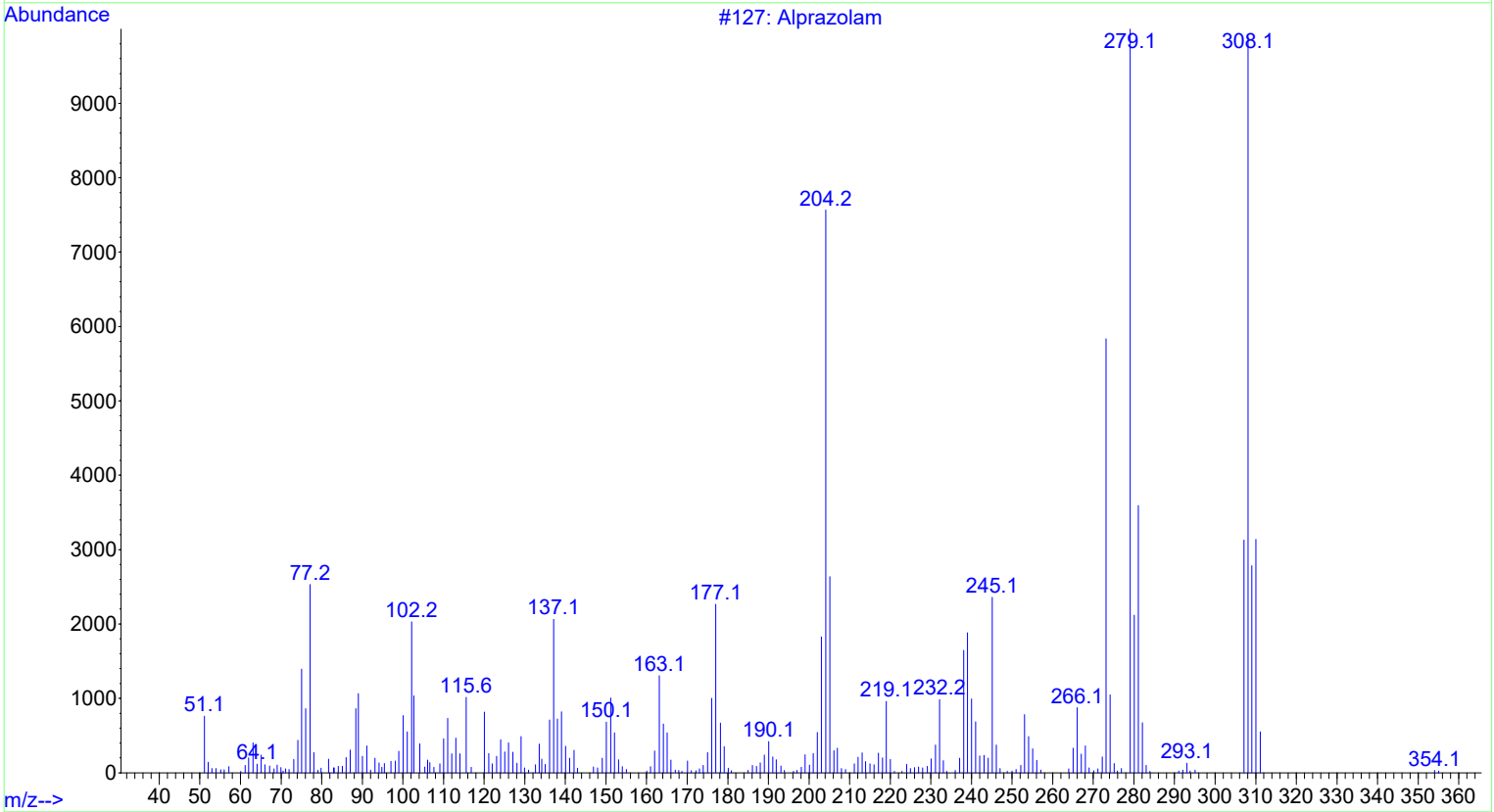
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Acquired : 22 Apr 2025 10:38 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



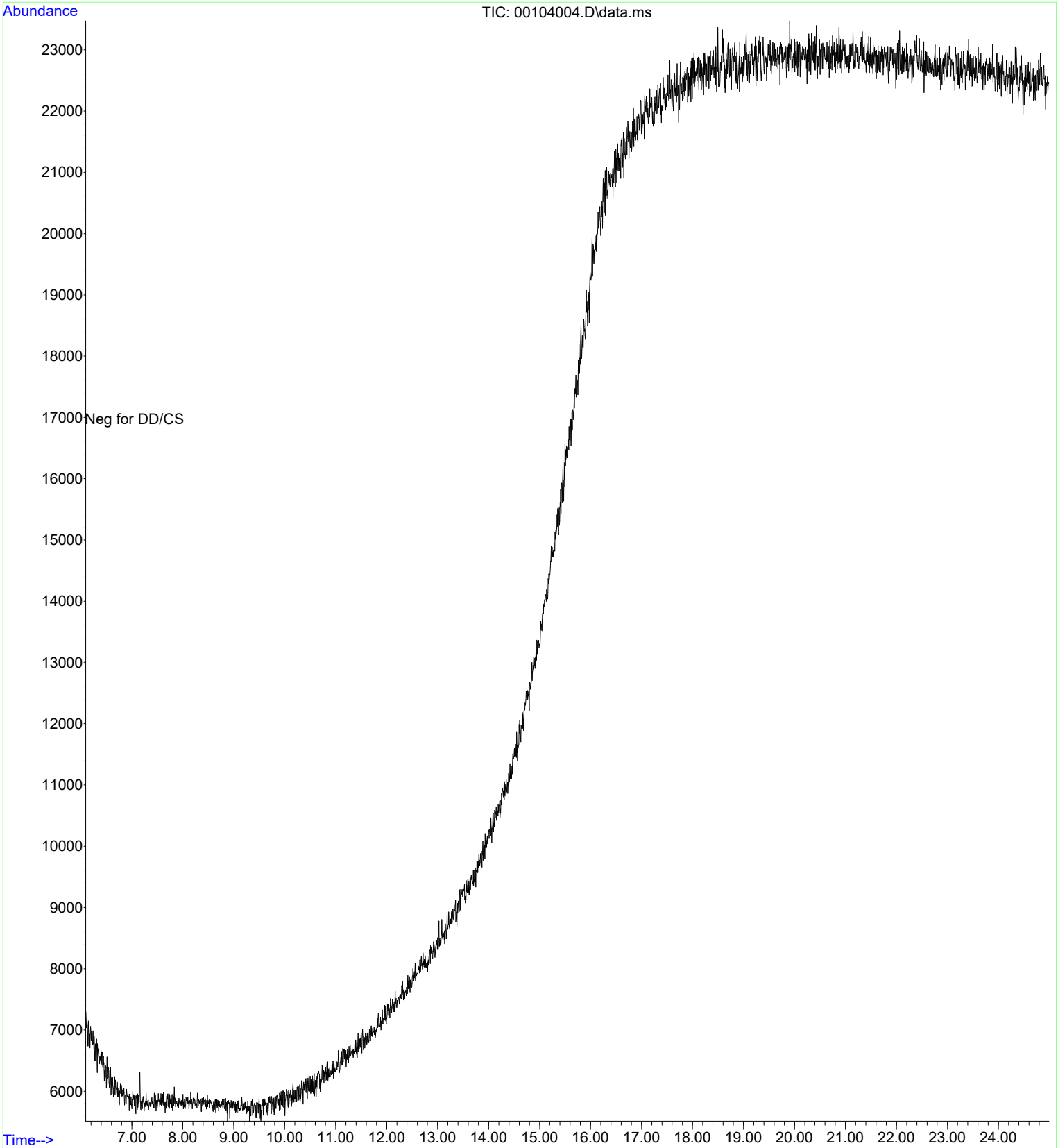


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Acquired : 22 Apr 2025 10:38 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

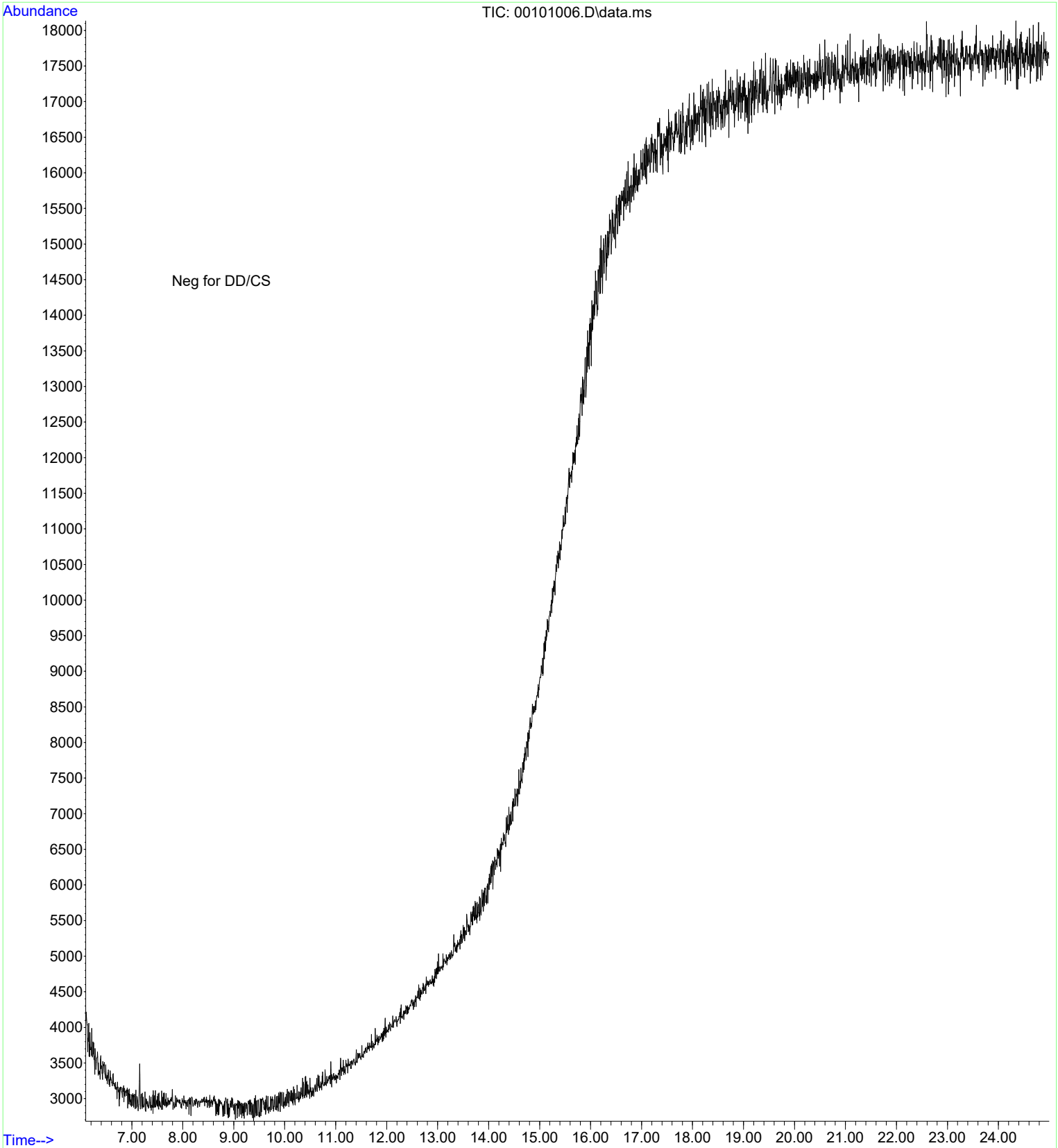




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Instrument : GCMS #4
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Misc Info : ACN 000002668
Vial Number: 1



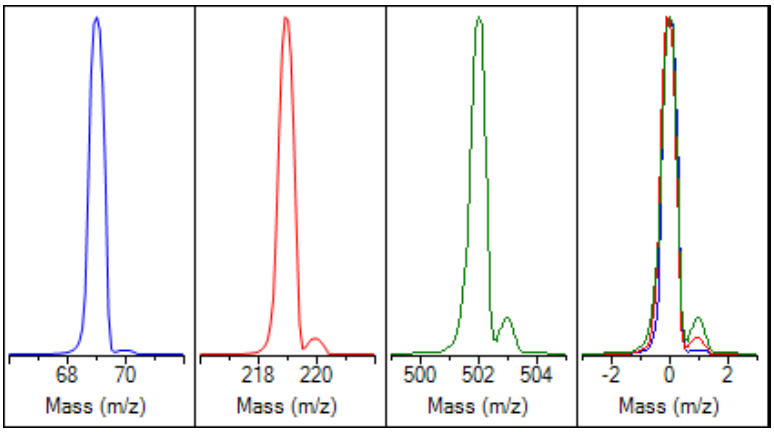
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Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 4/28/2025 9:48 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



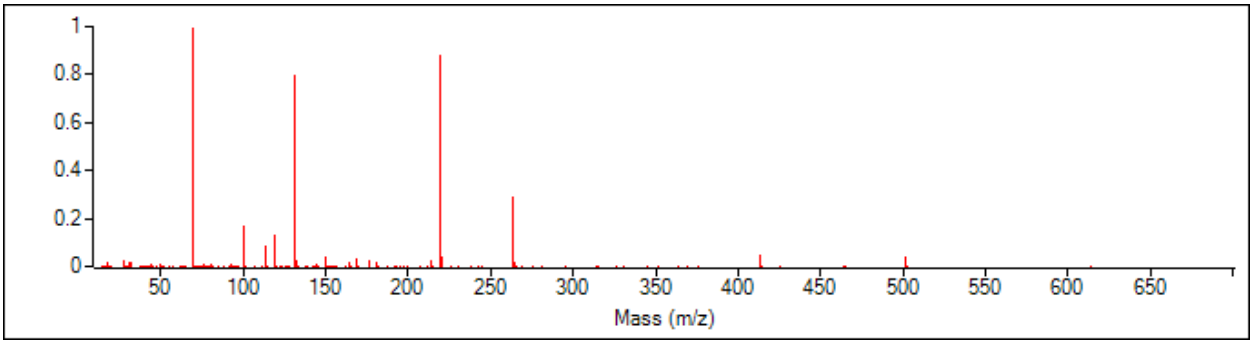
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	86
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2438
Repeller	10.59	Amu Offset	137.88
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	4.75	EM Volts	2265.7
Post Extractor 1	12	Extractor Lens	13.50
Post Extractor 2	32	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	523,350	100.0%	0.60
218.90	468,983	89.6%	0.61
502.00	21,736	4.2%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.49e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	133	69.00	499,712	1,978,889



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	499,712	100.0%	70.00	6,063	1.2%
219.00	219.00	441,792	88.4%	220.00	20,456	4.6%
502.00	502.00	19,456	3.9%	503.00	1,898	9.8%

Air/Water Check: H20 ~1.7% N2 ~2.3% O2 ~1.5% CO2 ~0.9% N2/H20 ~134.8%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 14879.088

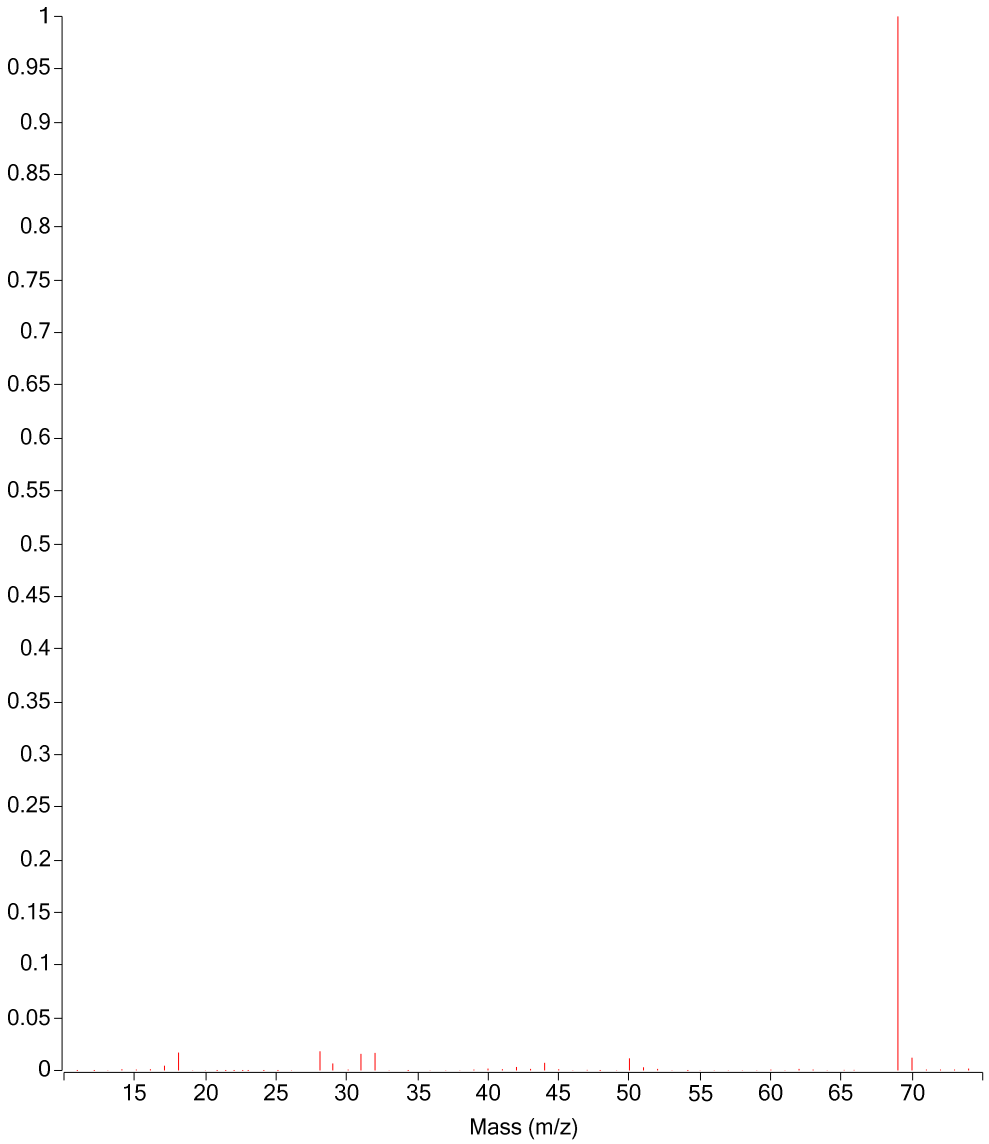
Repeller maximum 35 volts using ion 219; Gain Factor 0.1488

Mass Gain Values(Scan Speed): 86(3) 88(2) 104(1) 114(0) 166(FS1) 165(FS2) 154(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.9	137.9	137.9	137.9	137.9	137.9	137.9
Entrance Lens Offset	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Mon Apr 28 09:38:55 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	1.69	Water%	(counts=11349)
28/69 =	1.83	Nitrogen%	(counts=12258)
32/69 =	1.68	Oxygen%	(counts=11234)
44/69 =	0.73	Carbon Dioxide%	(counts=4869)
28/18 =	108.01	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.65E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.95	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.61	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.09	OK
Ratio of 219 to 69 should be > 40% and is	91.06	OK
Ratio of 502 to 69 should be > 2.4% and is	4.24	OK
Mass 69 Precursor (<= 3%)	0.62	OK
Mass 219 Precursor (<= 6%)	1.60	OK
Mass 502 Precursor (<= 12%)	4.88	OK

597x Air and Water Check
Mon Apr 28 09:52:57 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.14	OK
Ratio of 28 to 69 (<10%)	2.20	OK
Electron Multiplier Voltage	2266	OK

Tune portion of System Verification passed.

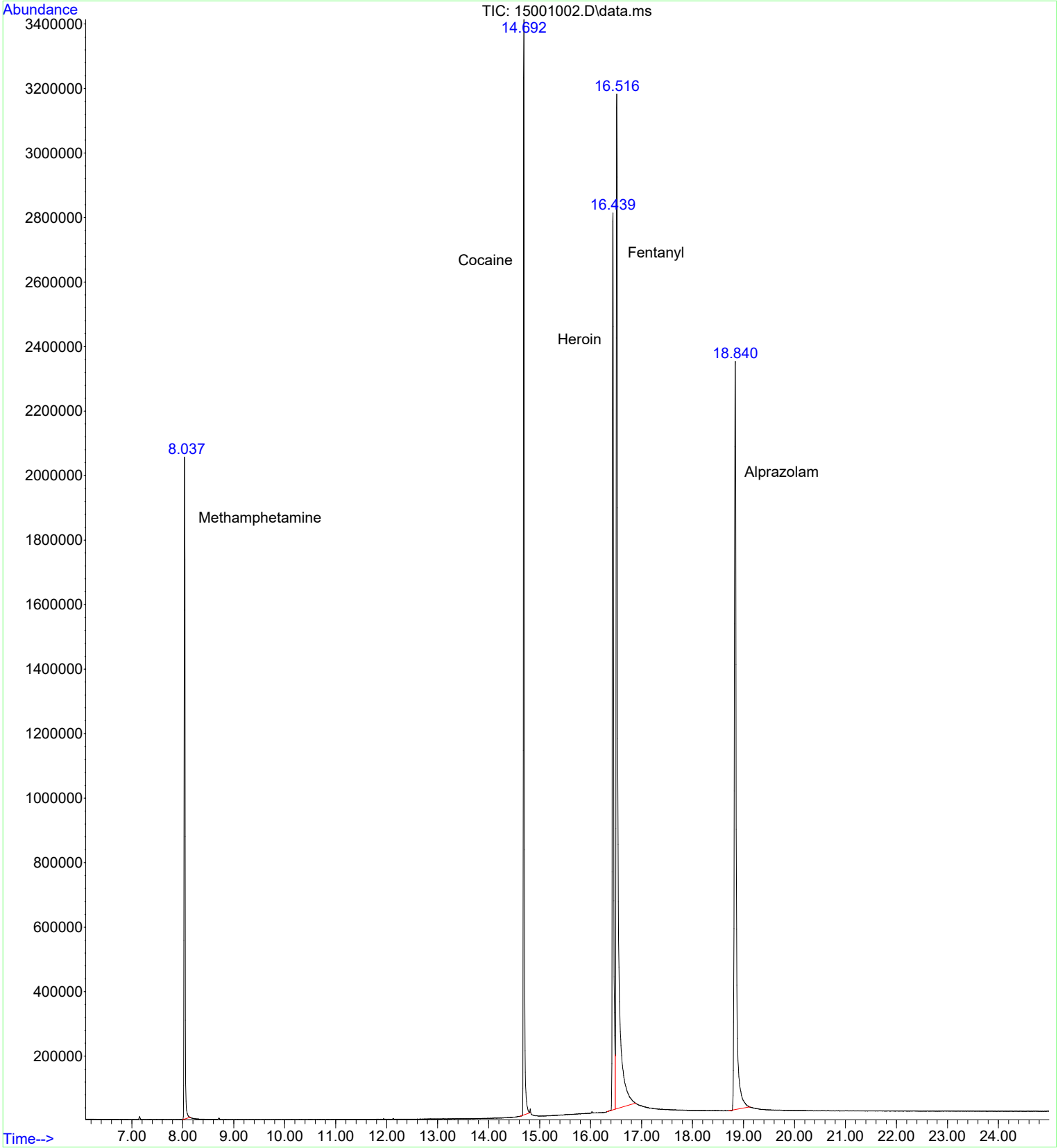
BCCL GC/MS #4
Retention Times for the Week of:

04/28/2025 - 05/04/2025

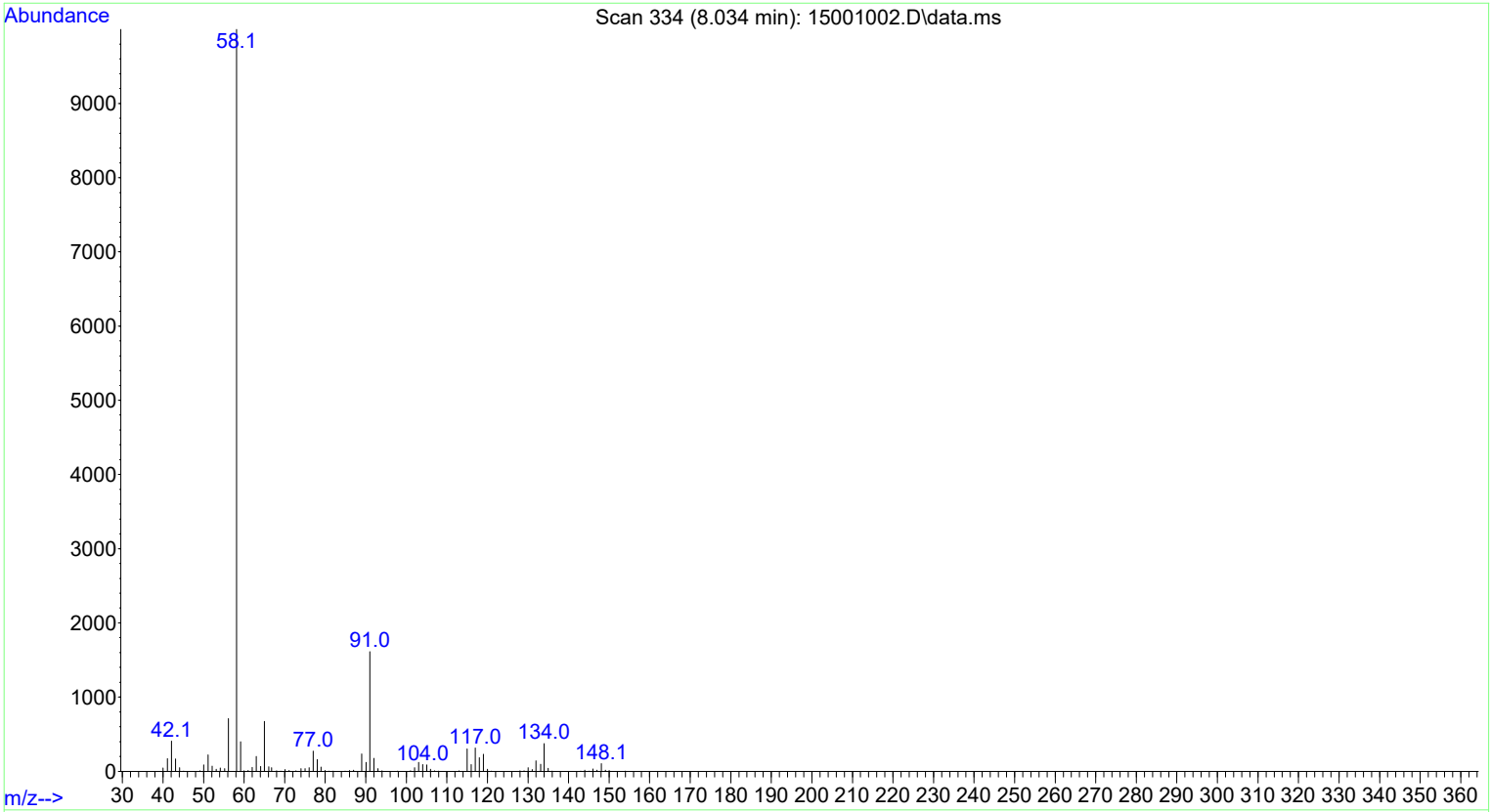
[X] **Tune:** DS/DN **04/28/2025 - HES Autotune**

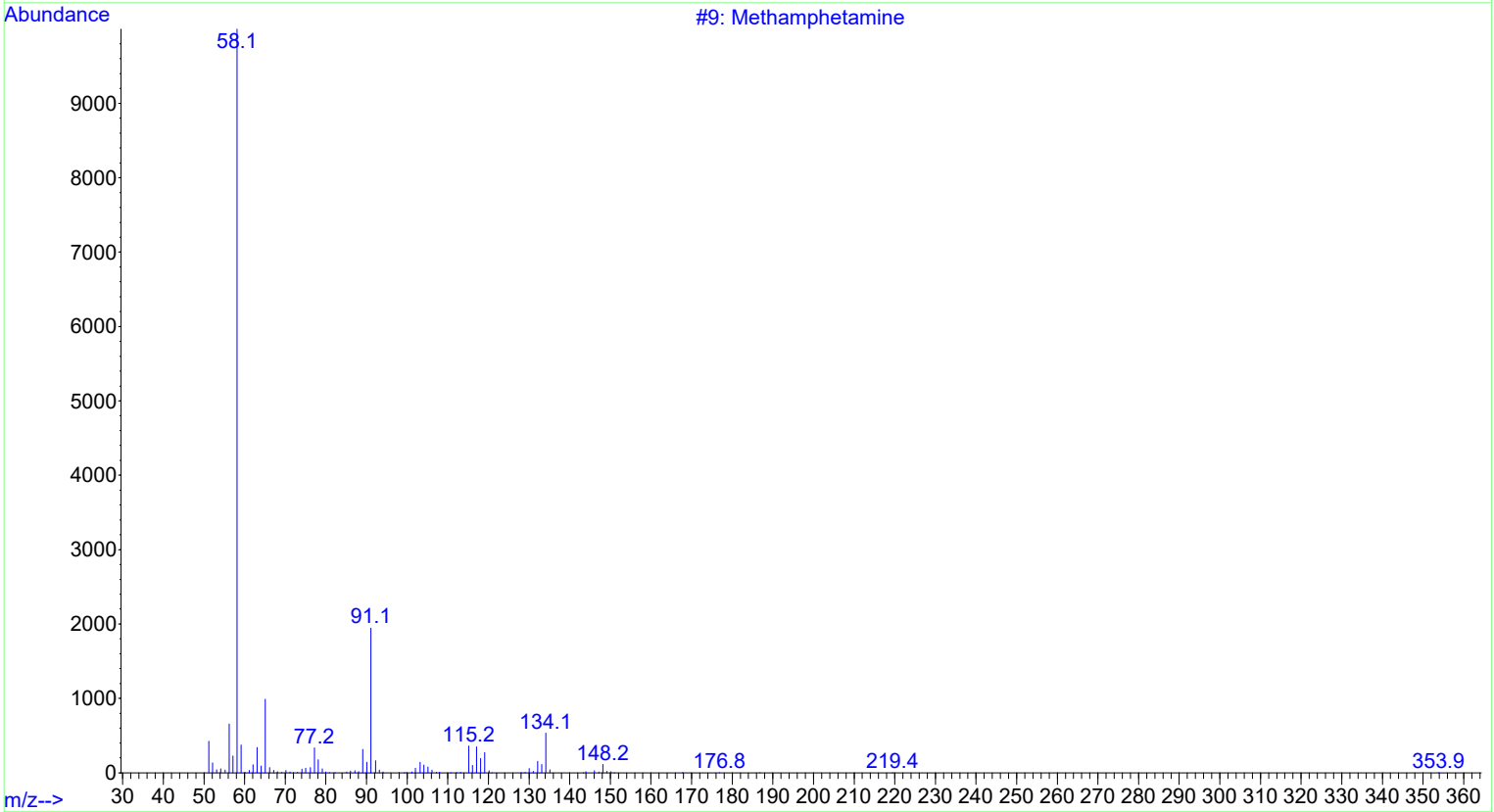
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.037	7.956	8.117
Cocaine	R-24-060	DrugTest35MS	14.692	14.545	14.838
Heroin	R-24-060	DrugTest35MS	16.439	16.274	16.603
Fentanyl	R-24-060	DrugTest35MS	16.516	16.350	16.681
Alprazolam	R-24-060	DrugTest35MS	18.840	18.651	19.028

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\042825\15001002.D
Acquired : 28 Apr 2025 11:55 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 150

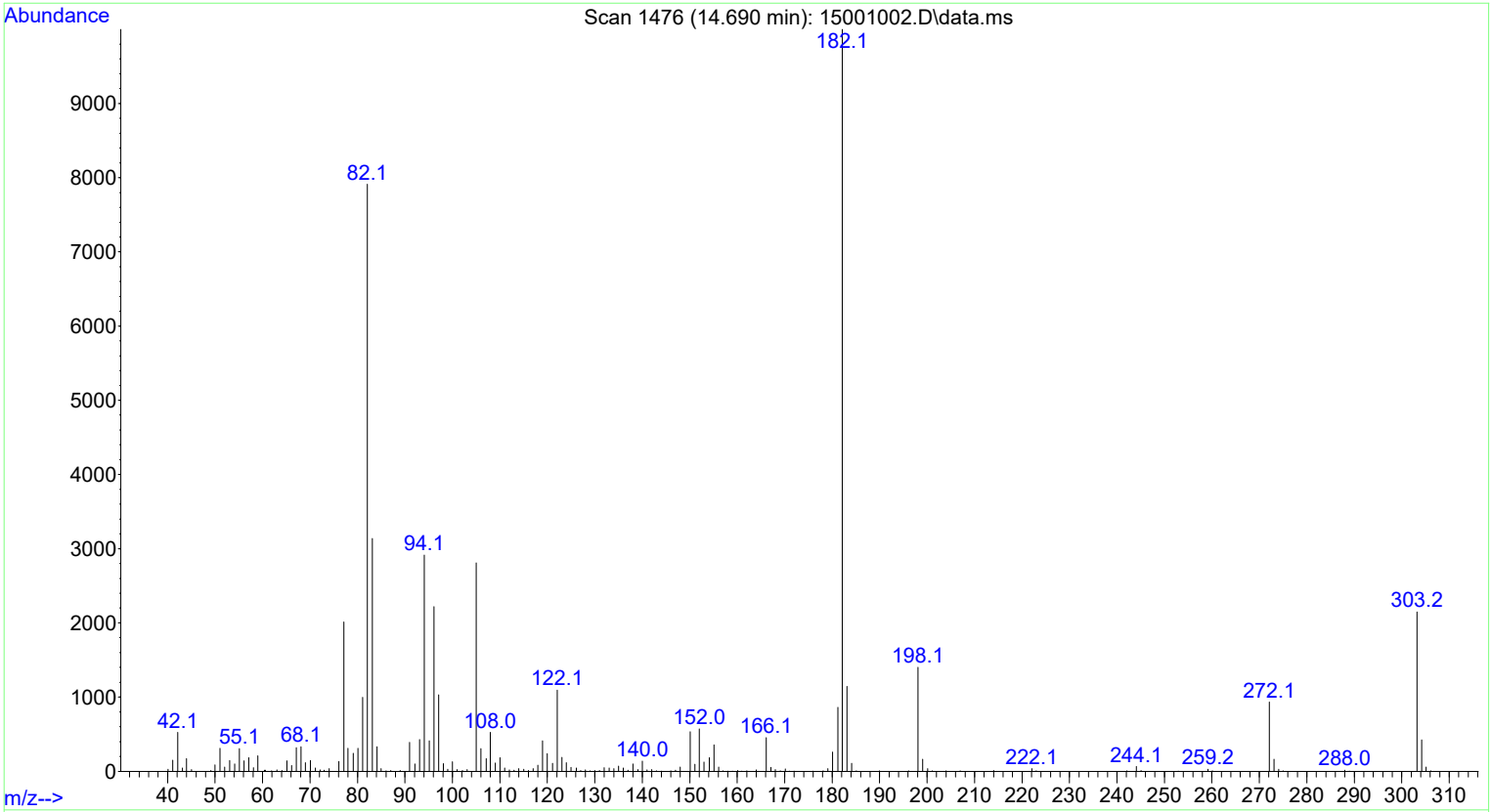


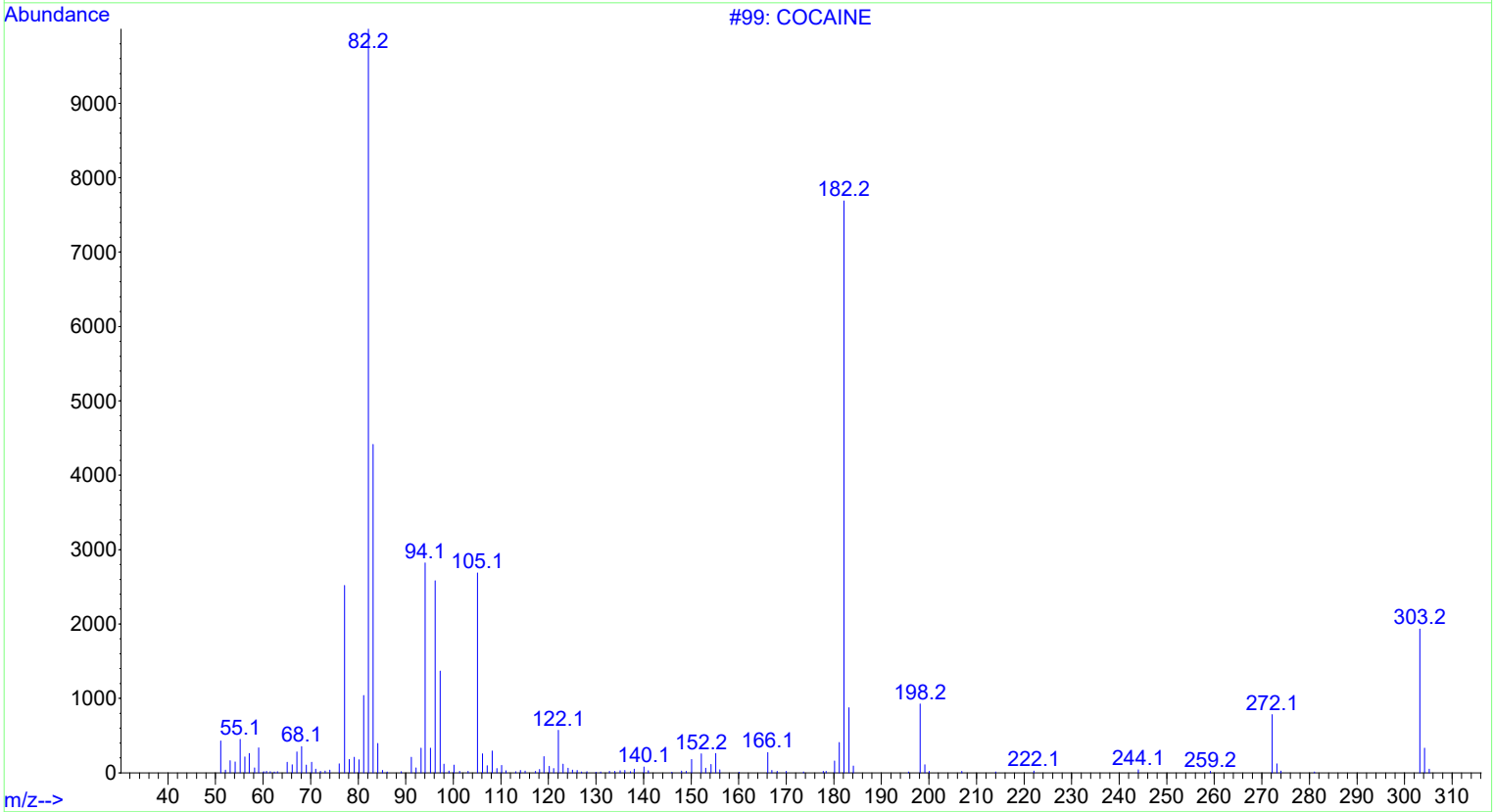
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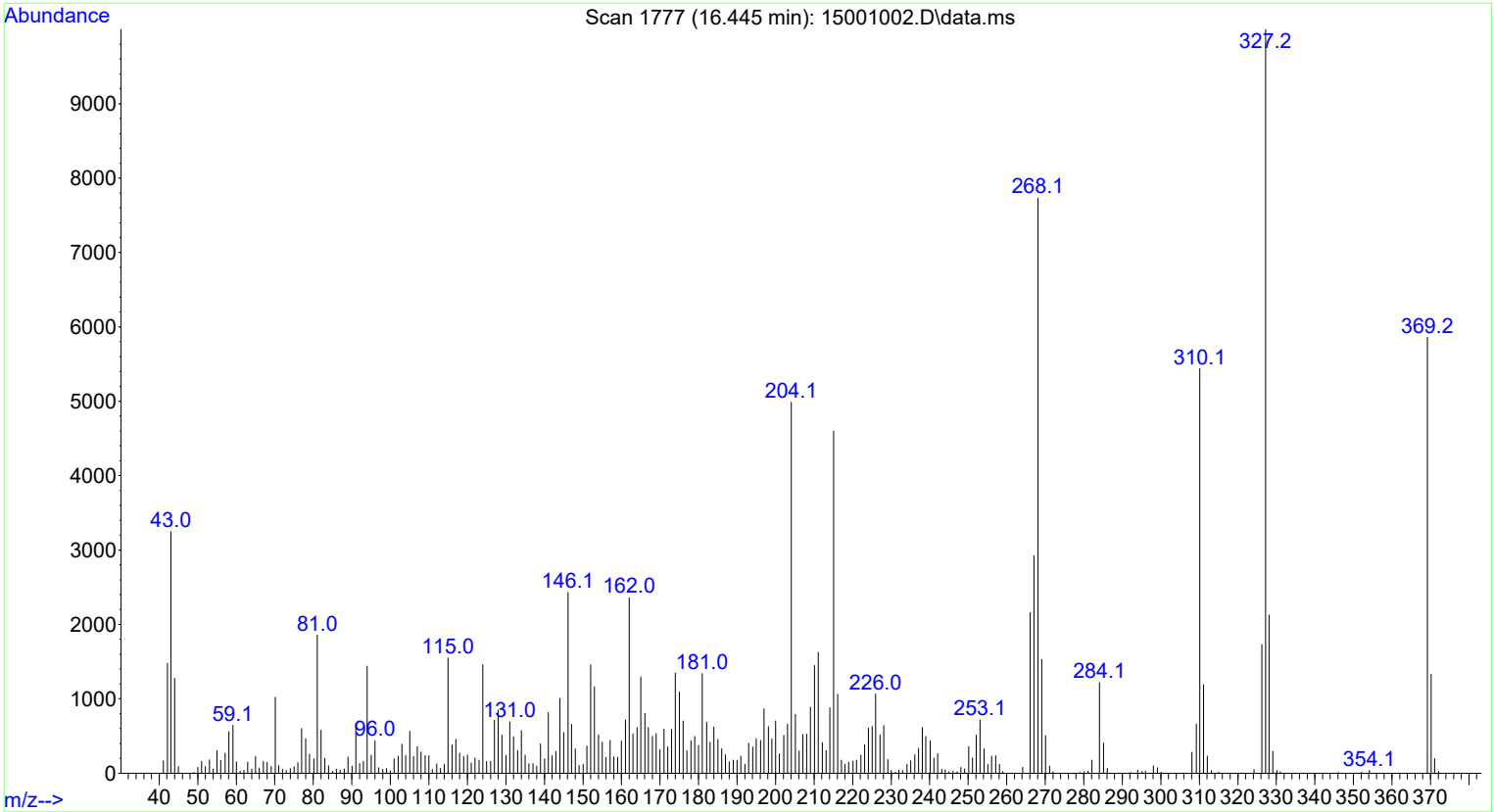


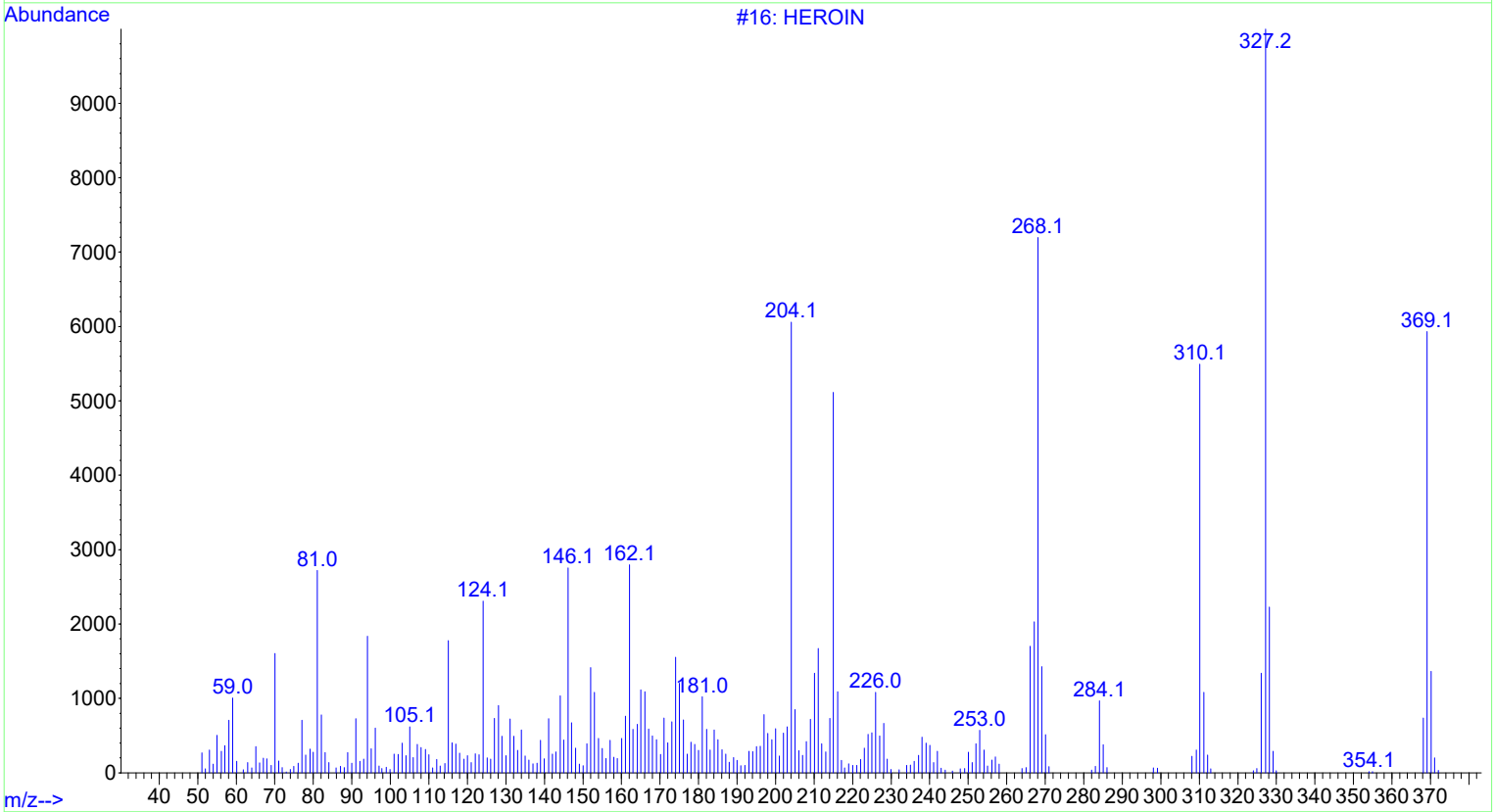
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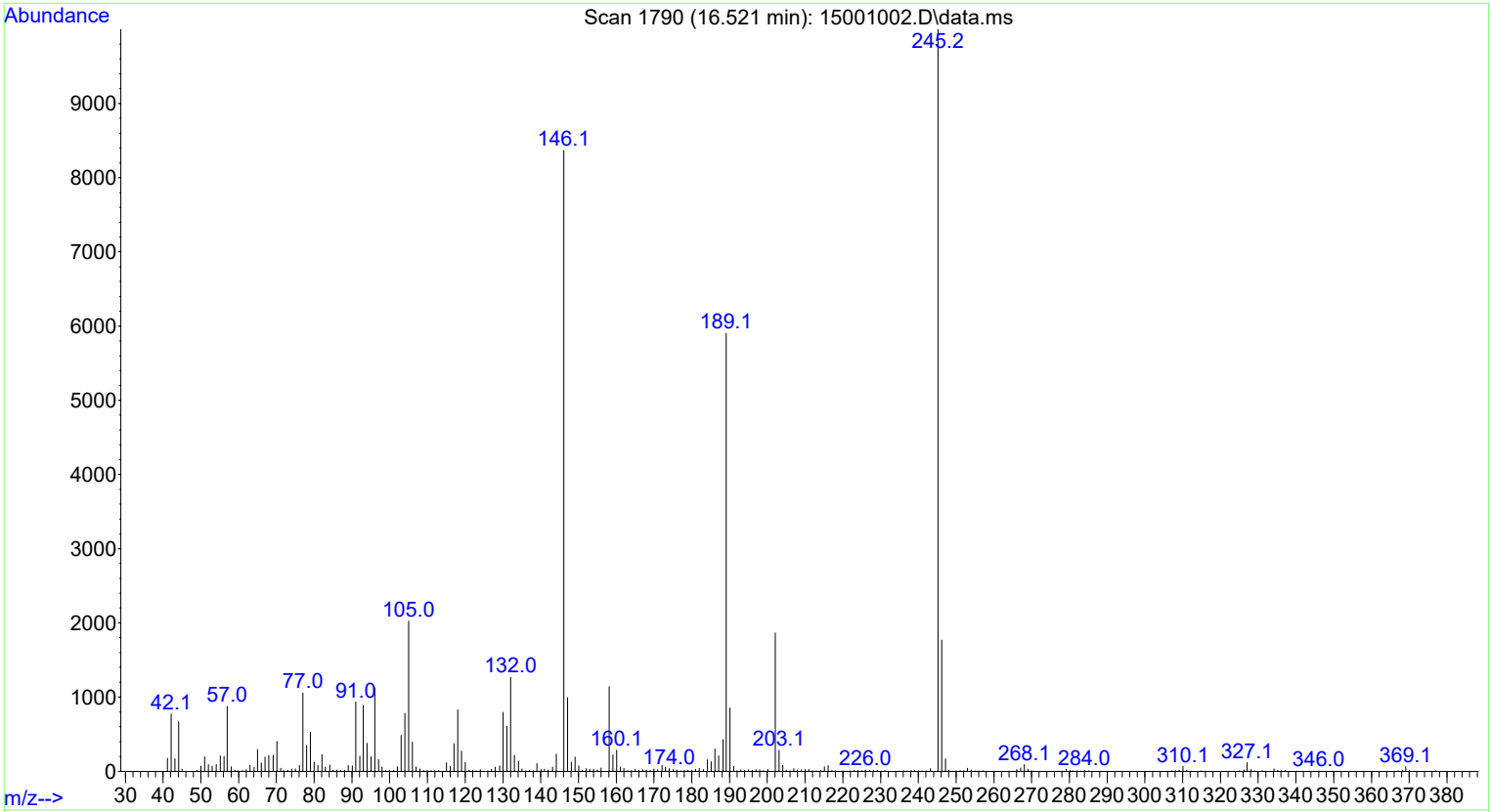


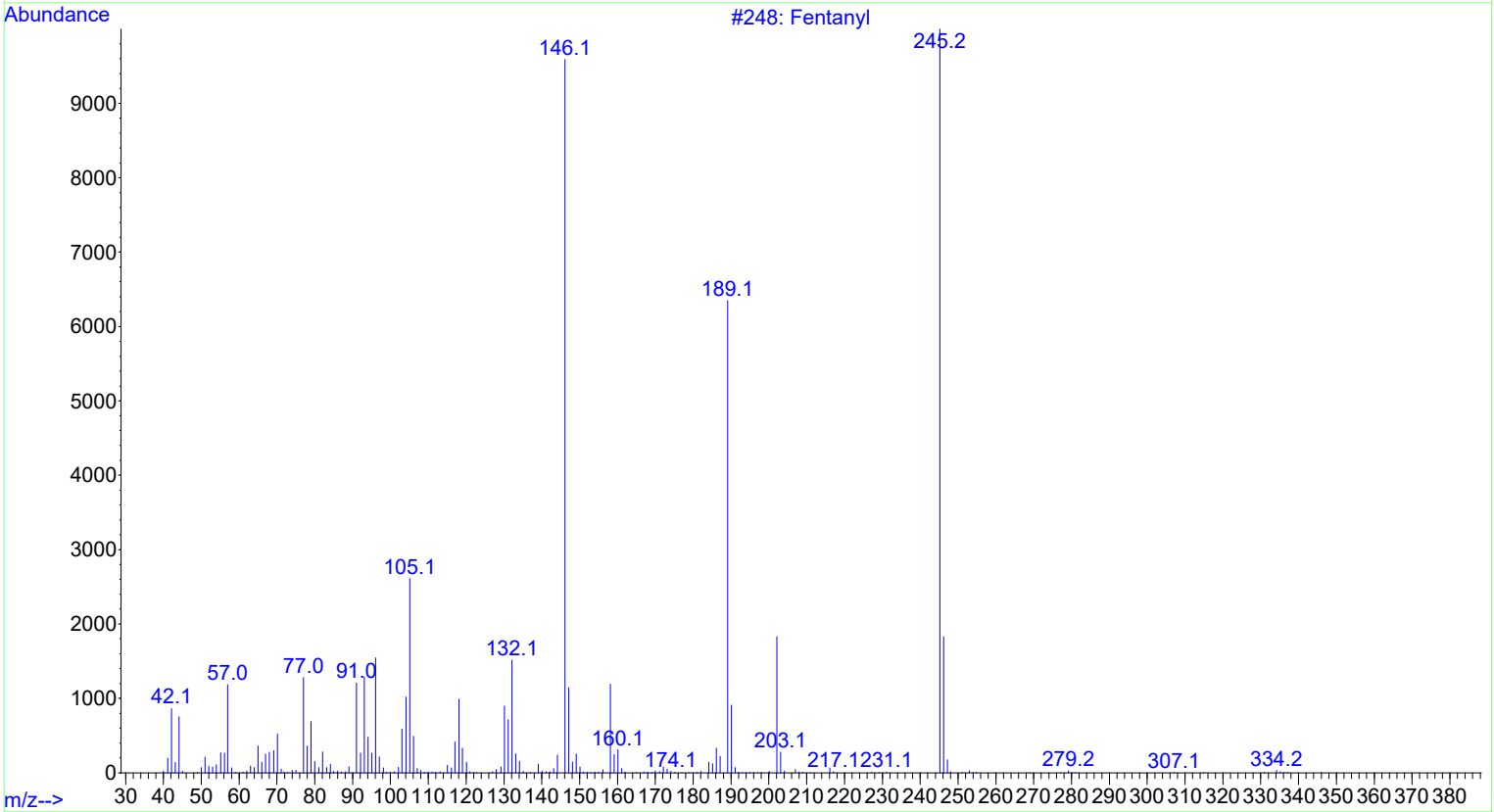
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Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 150
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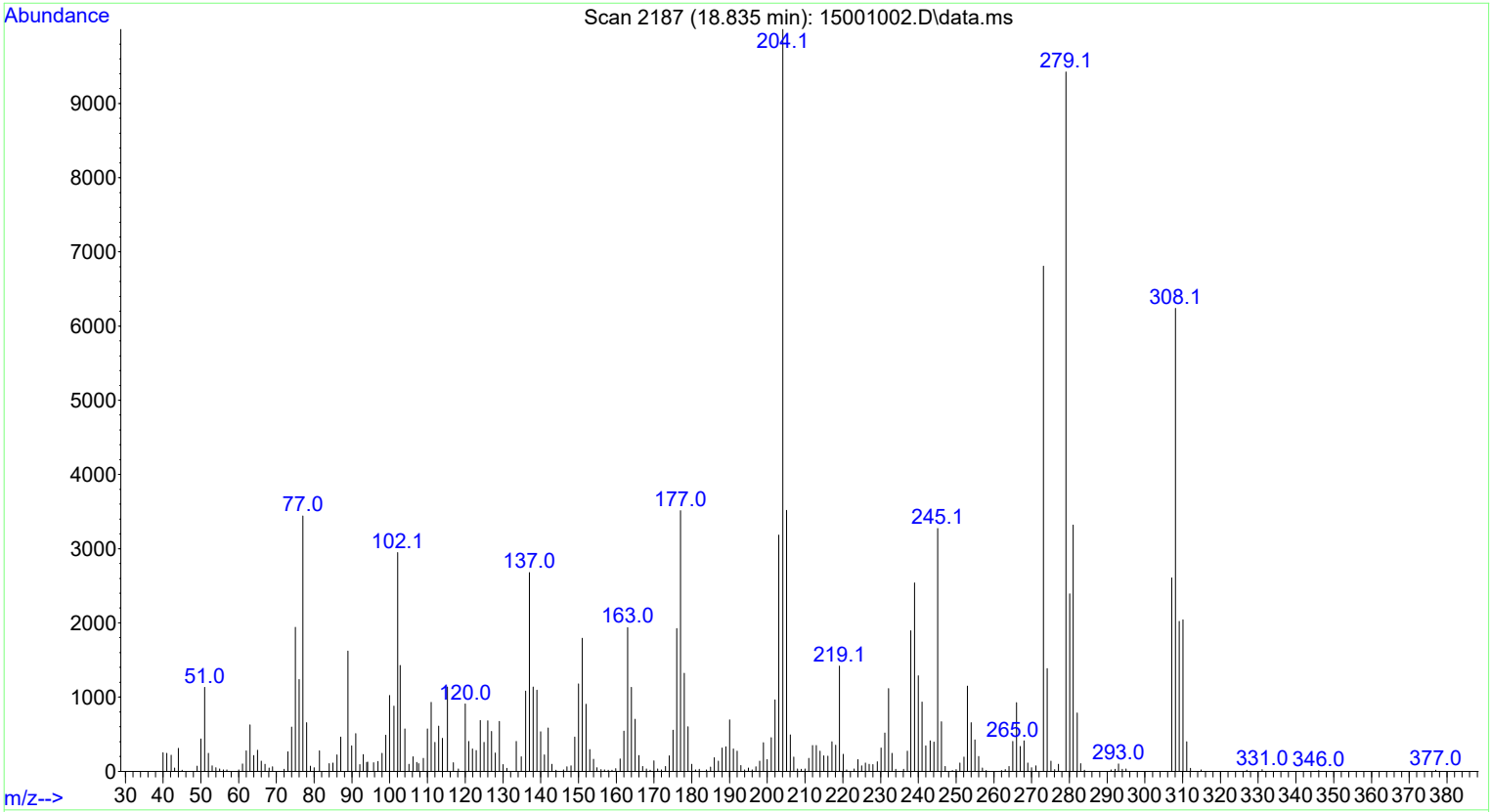


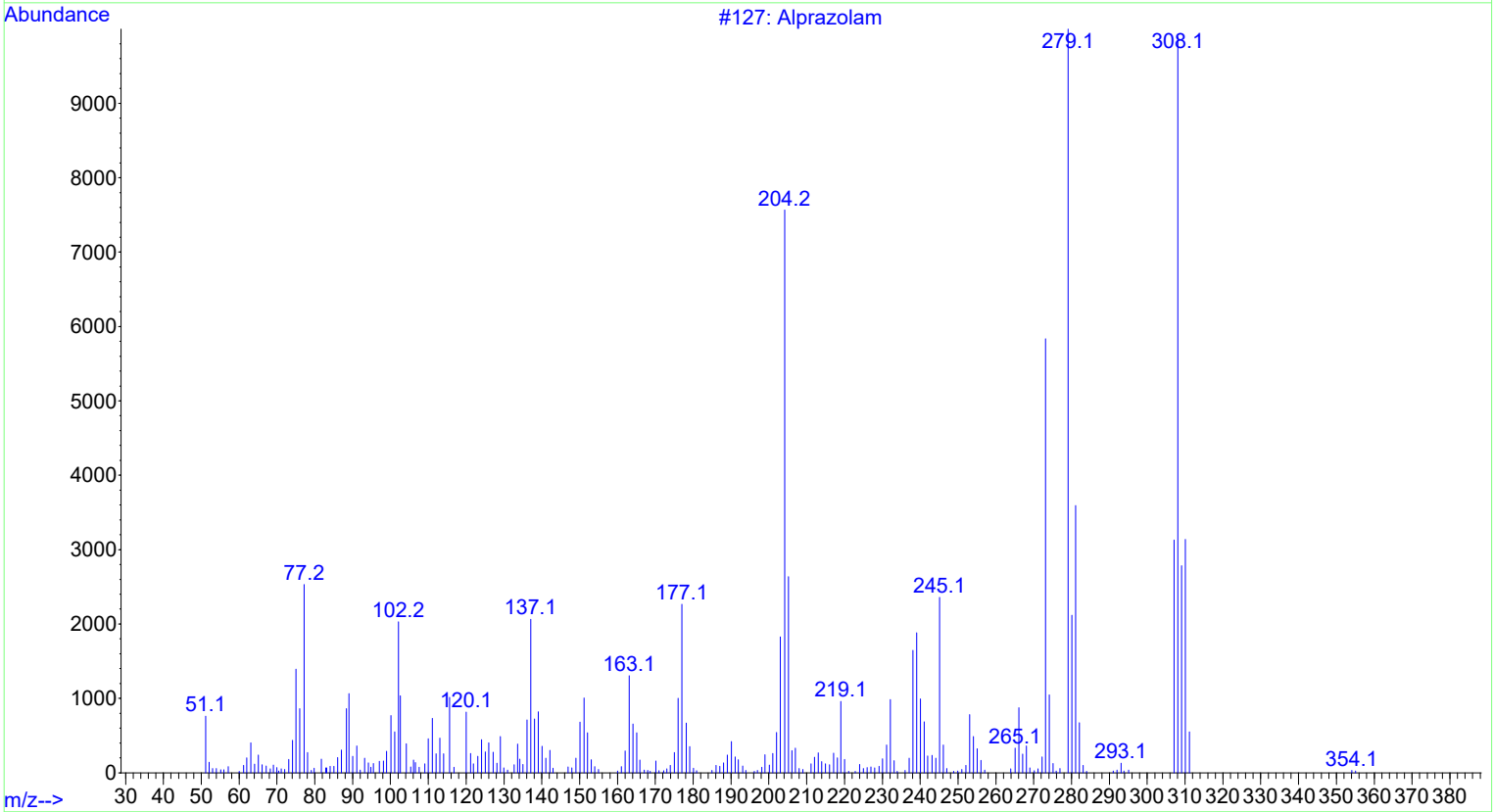
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Misc Info : in ACN 000002669
Vial Number: 150



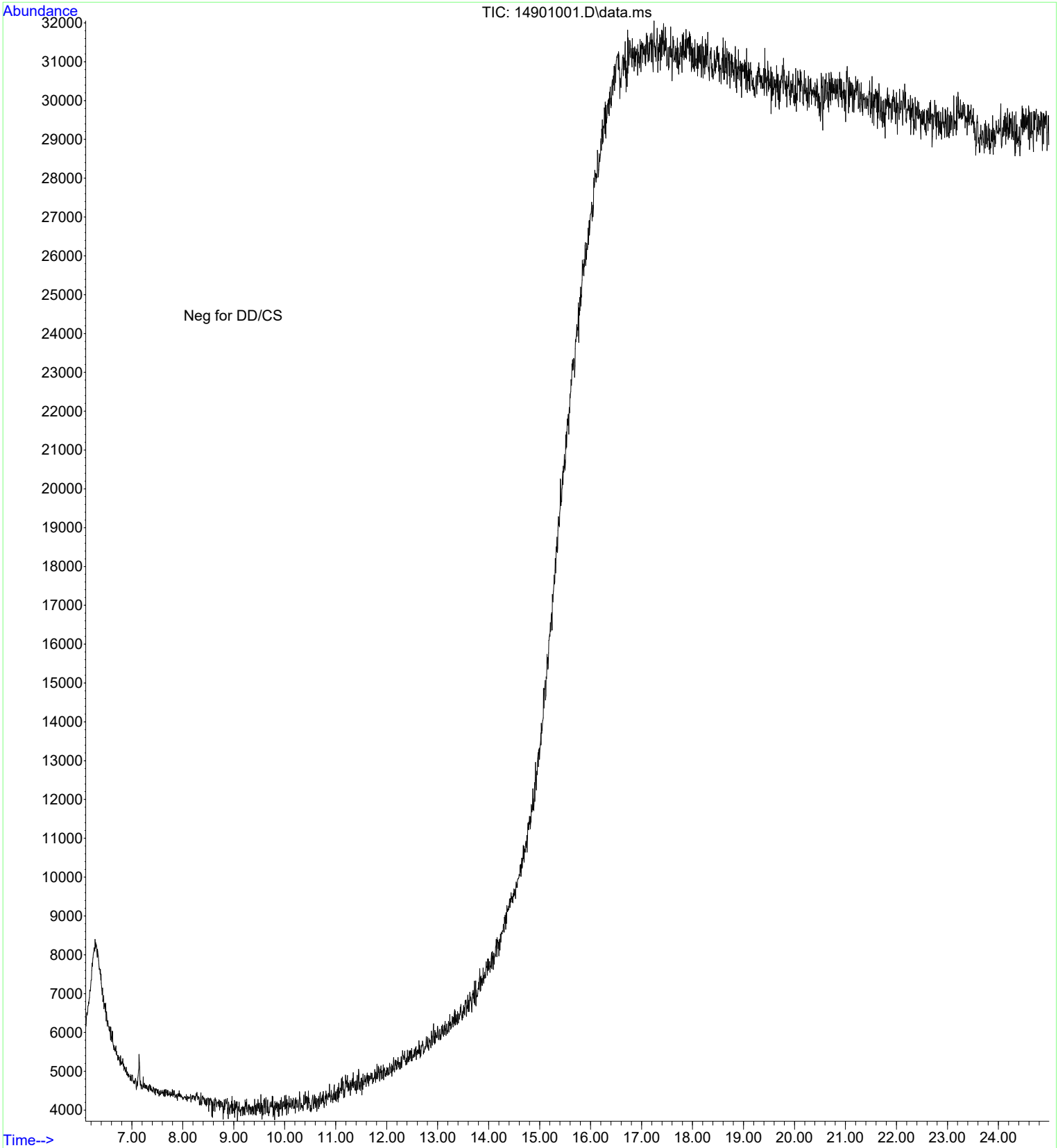


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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 150





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Acquired : 28 Apr 2025 11:26 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 149



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\042825\14901003.D
Acquired : 28 Apr 2025 12:24 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 149

