Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

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

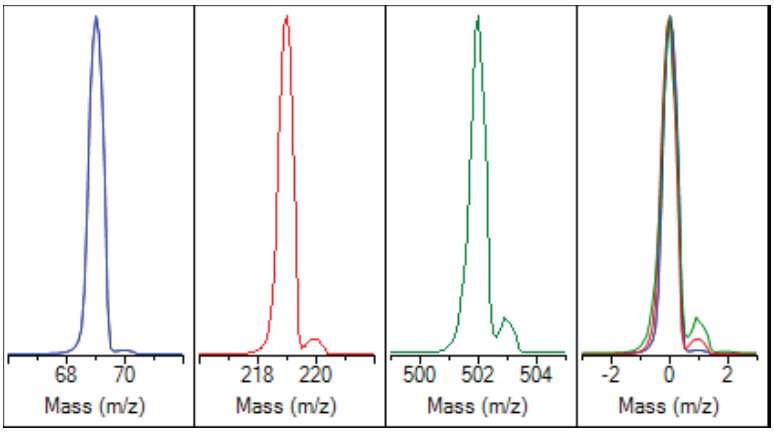
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	7/7/2025	1750	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
2	7/14/2025	800	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst	syringe bent when performing weekly check, syringe replaced on 7/16/2025 and weekly check ran again	KB
3	7/21/2025	2400	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		KB
4	7/28/2025	1500	Pass	✓	✓	✓	N/A	N/A	N/A	Maintenance	Analyst		KB

Signature: Derek Sanders **Date:** 10/02/2025

High Efficiency Source Autotune - 5977

Tune timestamp: 7/7/2025 8:27 AM (UTC-05:00) GCMS #4

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



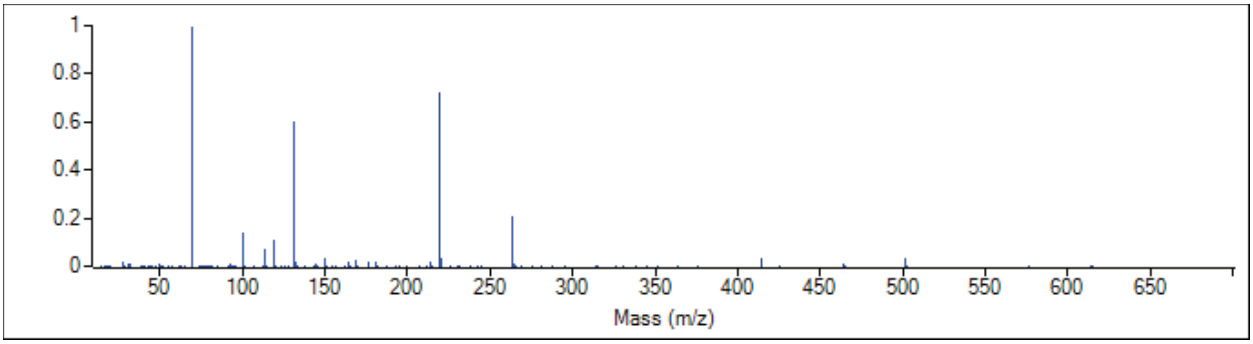
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	88
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2455
Repeller	12.42	Amu Offset	136.63
Ion Focus	127.8	Width219	0.000
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	14.06	HED Enable	On
Ion Body	5.25	EM Volts	1957.5
Post Extractor 1	13	Extractor Lens	7.60
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	477,274	100.0%	0.59
219.00	327,563	68.6%	0.60
502.00	12,817	2.7%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	118	69.00	447,552	1,484,139



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	447,552	100.0%	70.00	5,349	1.2%
219.00	219.00	321,984	71.9%	220.00	14,902	4.6%
502.00	502.00	13,858	3.1%	503.00	1,417	10.2%

Air/Water Check: H20 ~0.5% N2 ~1.6% O2 ~0.5% CO2 ~0.2% N2/H20 ~327.7%

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 21537.356

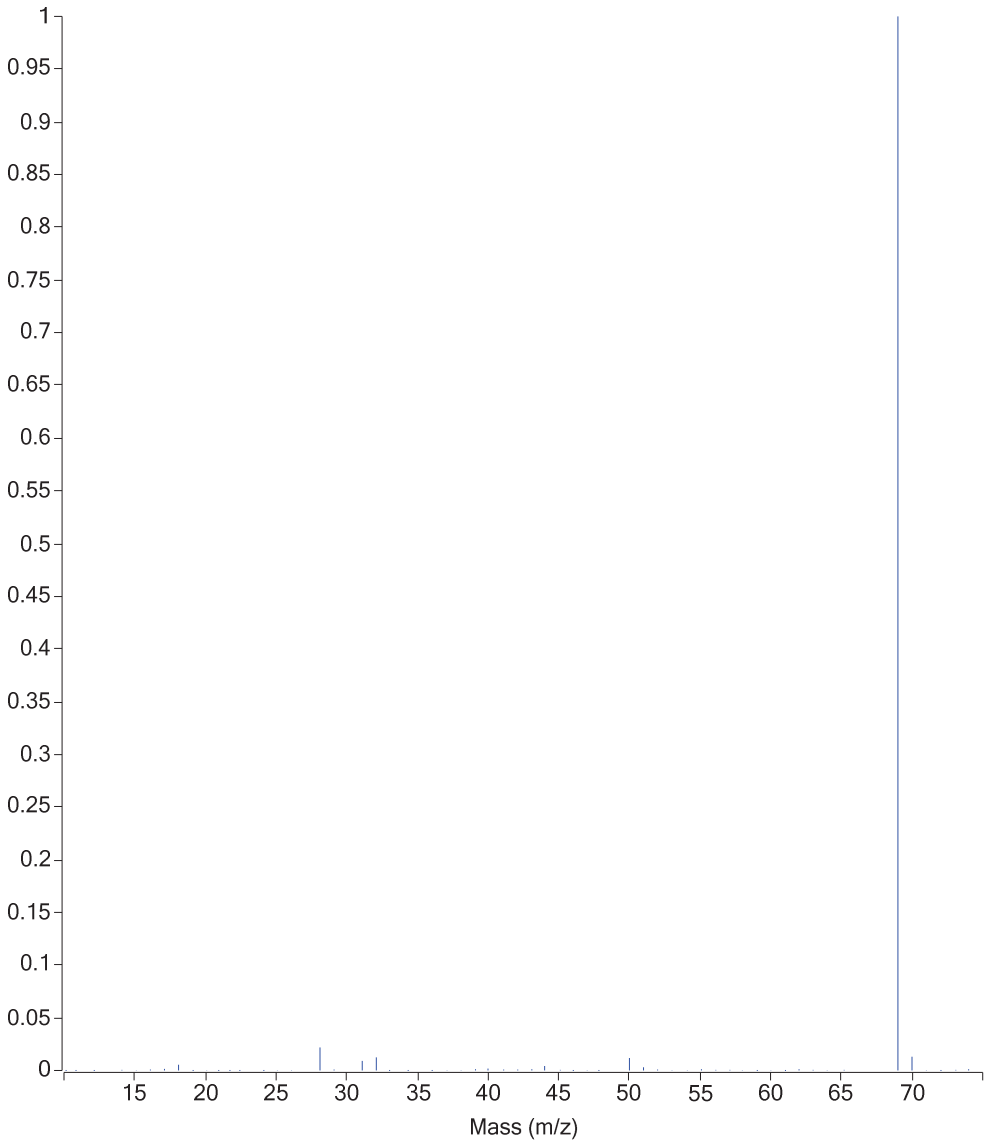
Repeller maximum 35 volts using ion 219; Gain Factor 0.2154

Mass Gain Values(Scan Speed): 97(3) 105(2) 103(1) 116(0) 168(FS1) 167(FS2) 156(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.6	136.6	136.6	136.6	136.6	136.6	136.6
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 Jul 07 08:17:03 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.56	Water%	(counts=5079)
28/69 =	2.19	Nitrogen%	(counts=19928)
32/69 =	1.24	Oxygen%	(counts=11301)
44/69 =	0.41	Carbon Dioxide%	(counts=3735)
28/18 =	392.36	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.59E-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	503.02	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.19	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.60	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.24	OK
Ratio of 219 to 69 should be > 40% and is	70.22	OK
Ratio of 502 to 69 should be > 2.4% and is	3.04	OK
Mass 69 Precursor (<= 3%)	0.72	OK
Mass 219 Precursor (<= 6%)	2.16	OK
Mass 502 Precursor (<= 12%)	3.27	OK

597x Air and Water Check
Mon Jul 07 08:30:49 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%)	0.49	OK
Ratio of 28 to 69 (<10%)	1.62	OK
Electron Multiplier Voltage	1958	OK

Tune portion of System Verification passed.

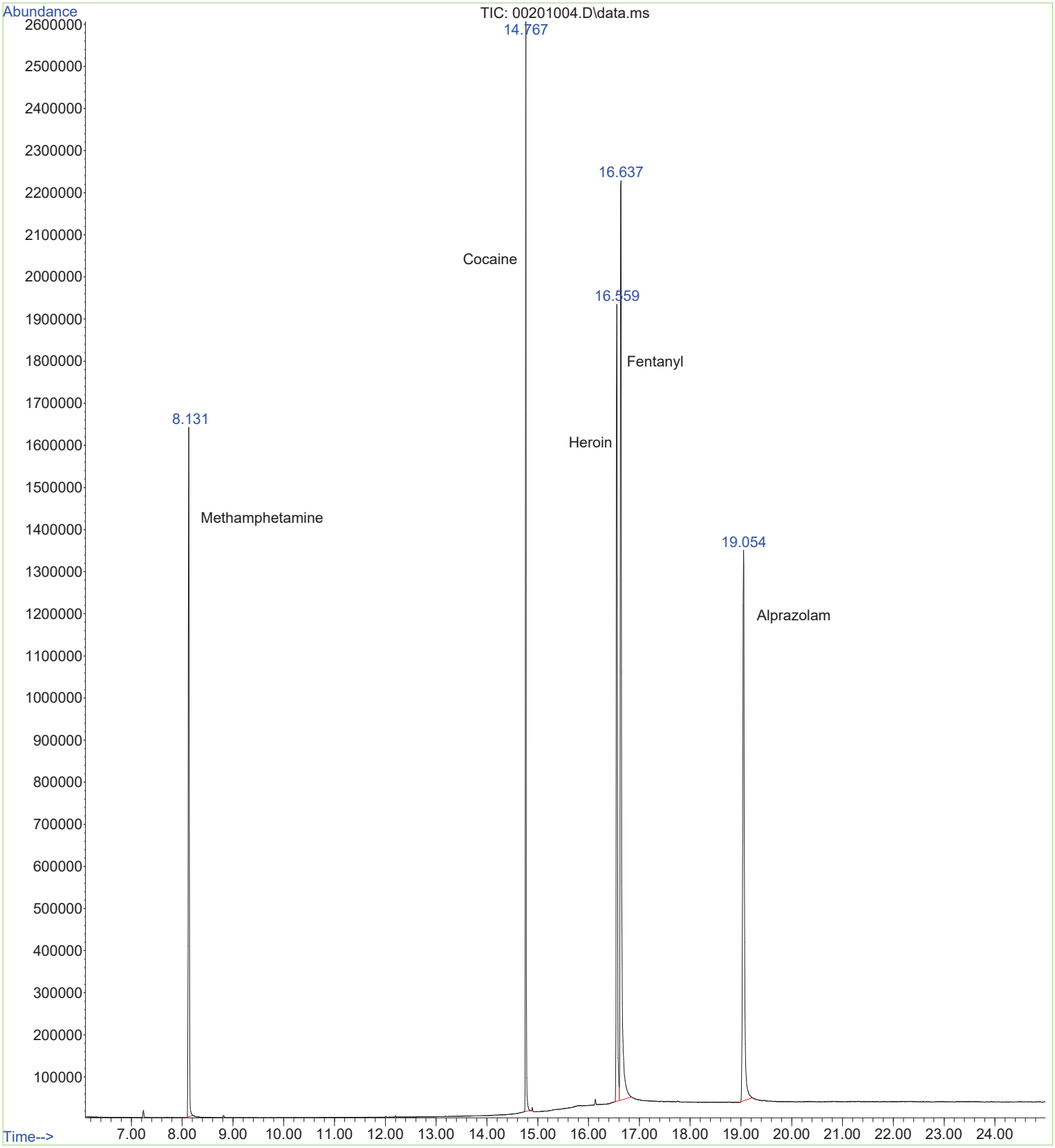
BCCL GC/MS #4
Retention Times for the Week of:

07/07/2025 - 07/13/2025

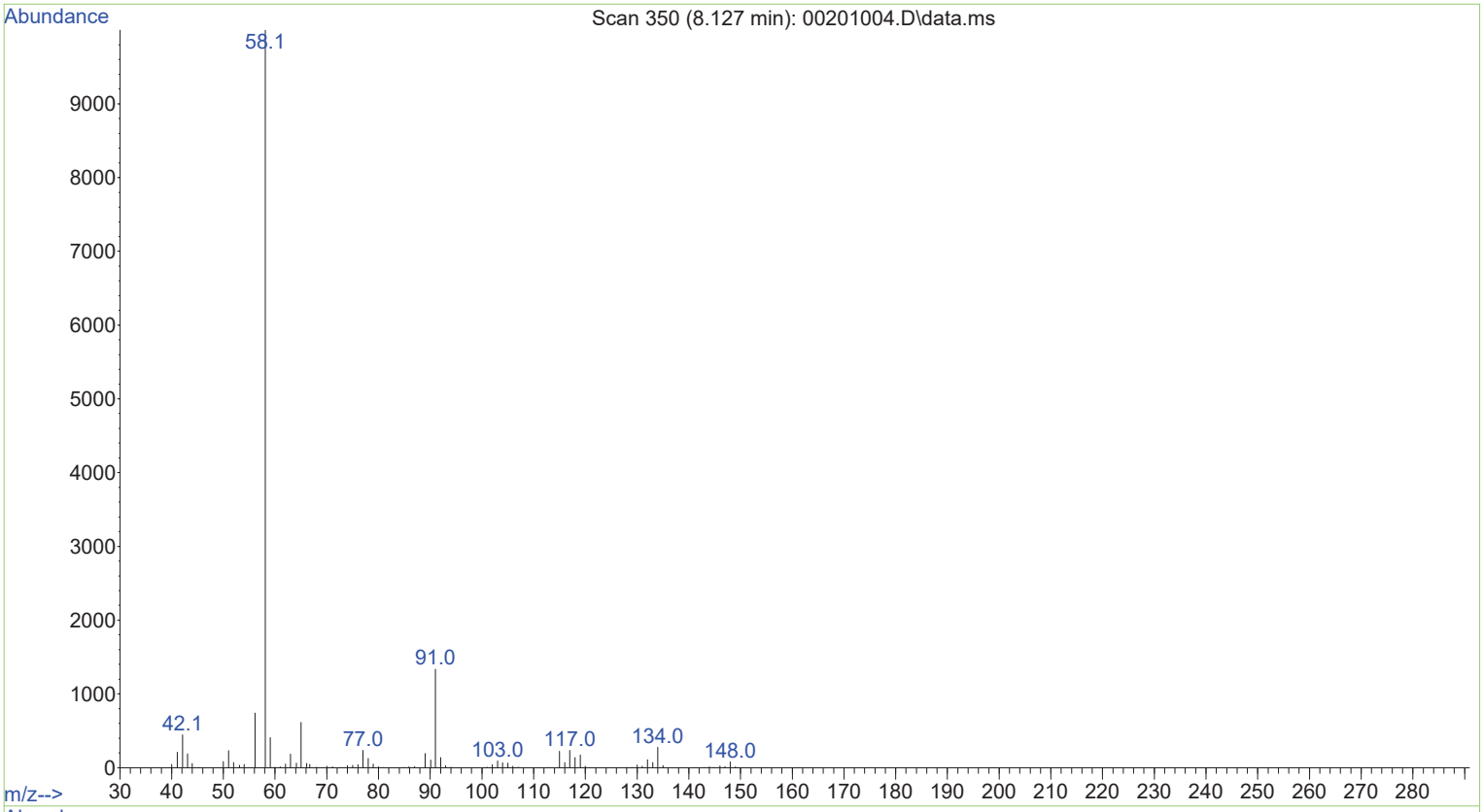
[X] **Tune: DS 07/07/2025 - HES Autotune**

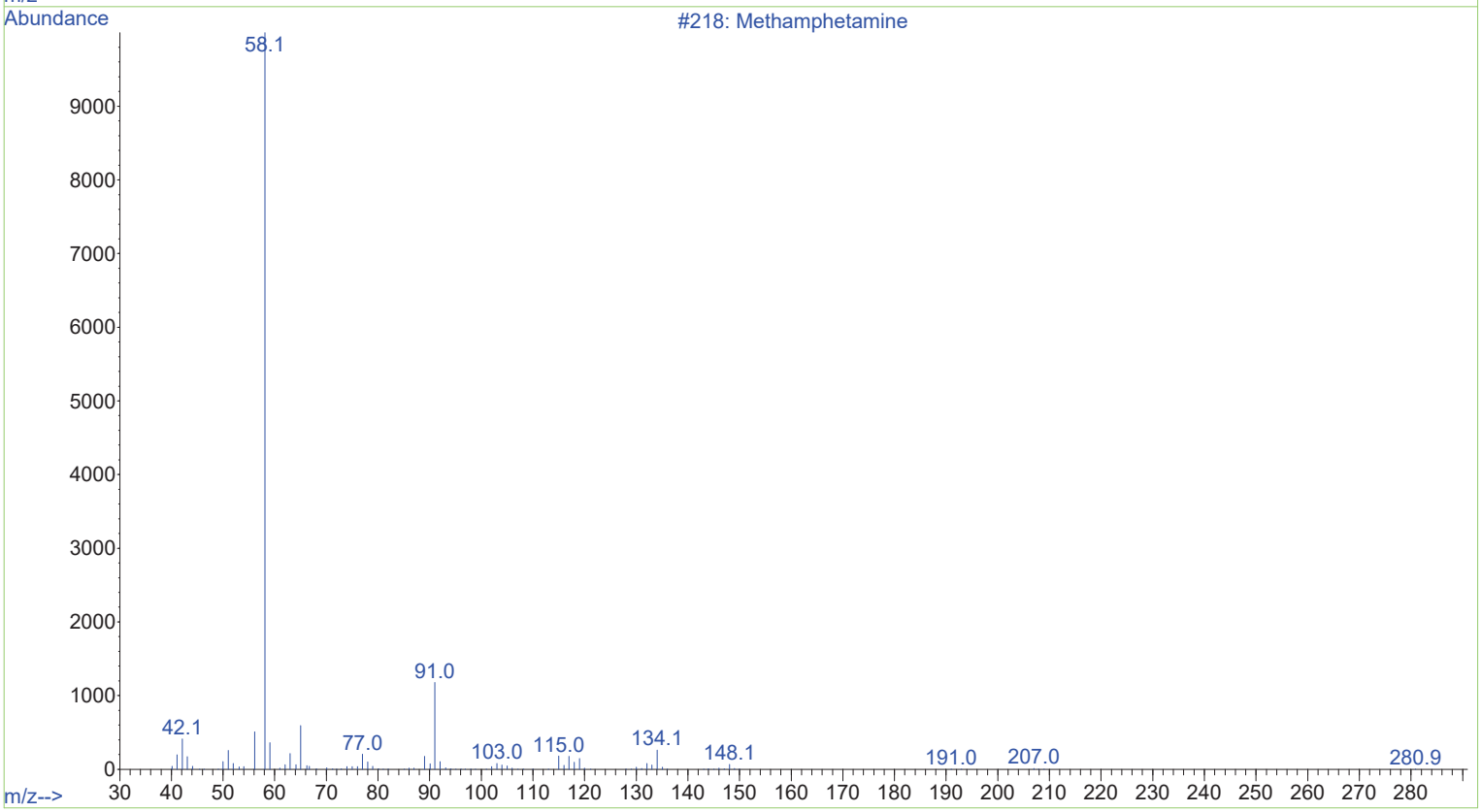
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.131	8.049	8.212
Cocaine	R-24-060	DrugTest35MS	14.767	14.619	14.914
Heroin	R-24-060	DrugTest35MS	16.559	16.393	16.724
Fentanyl	R-24-060	DrugTest35MS	16.637	16.470	16.803
Alprazolam	R-24-060	DrugTest35MS	19.054	18.863	19.244
Codeine	R-23-022	DrugTest35MS	15.654	15.497	15.810

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\070725\00201004.D
Acquired : 07 Jul 2025 09:45 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

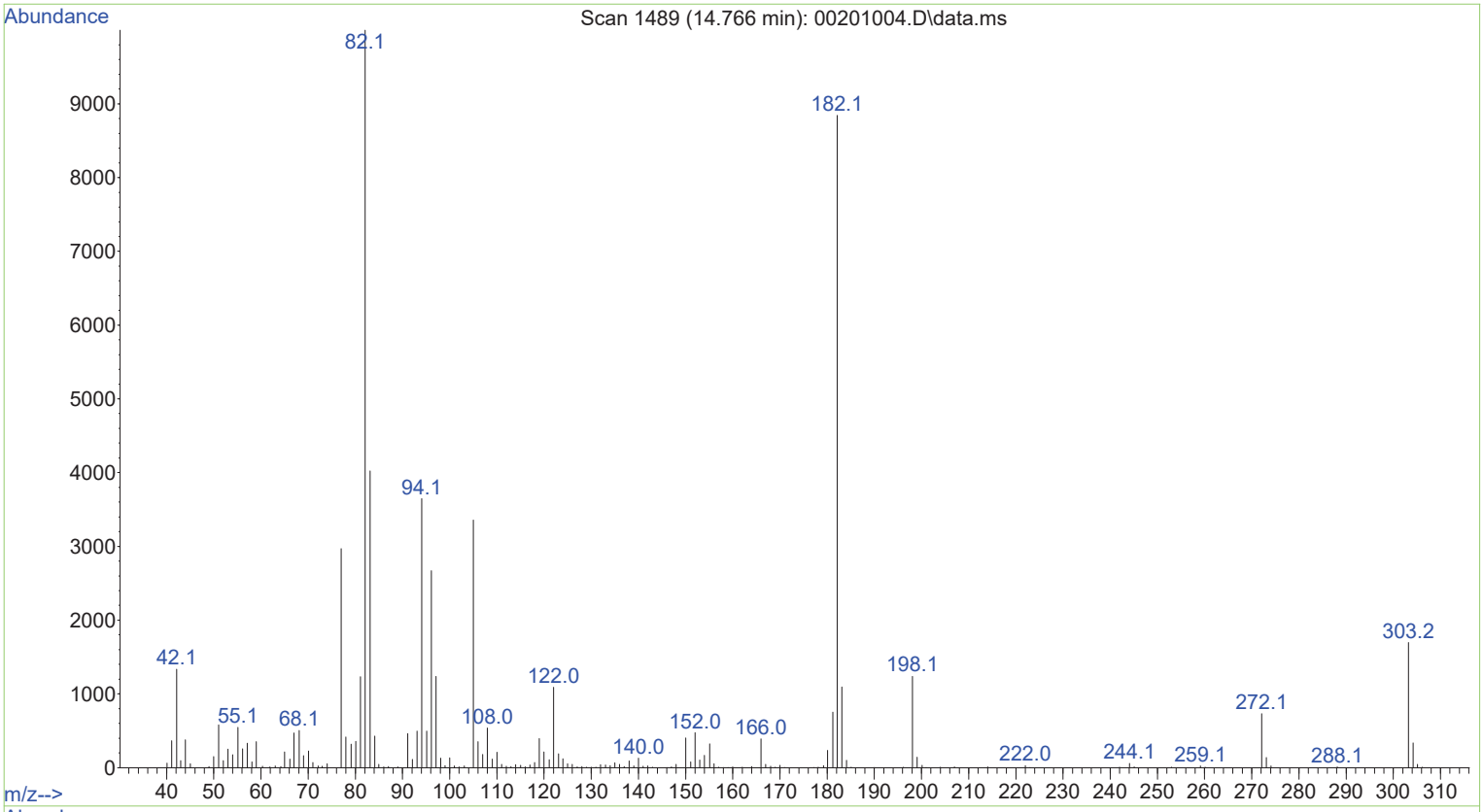


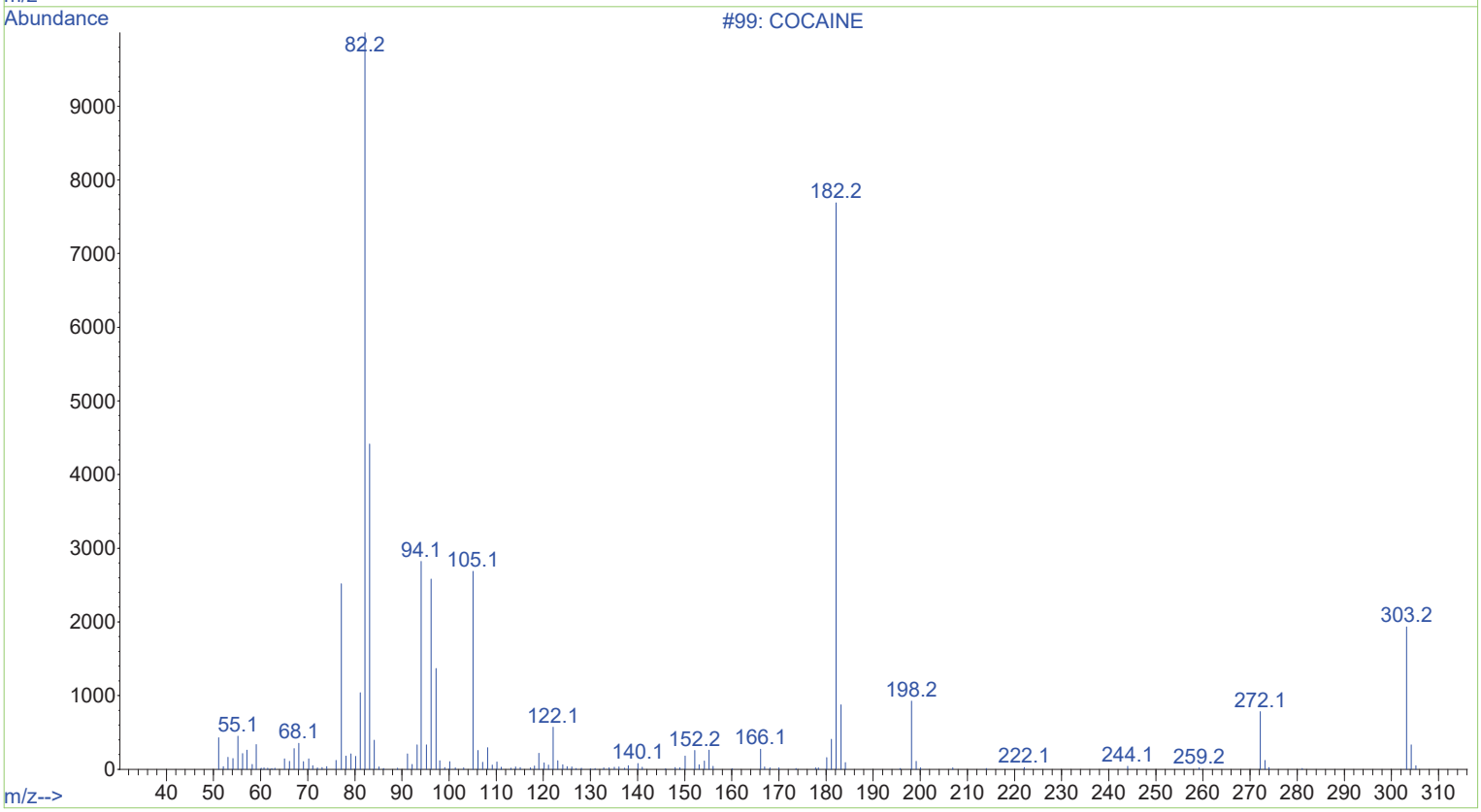
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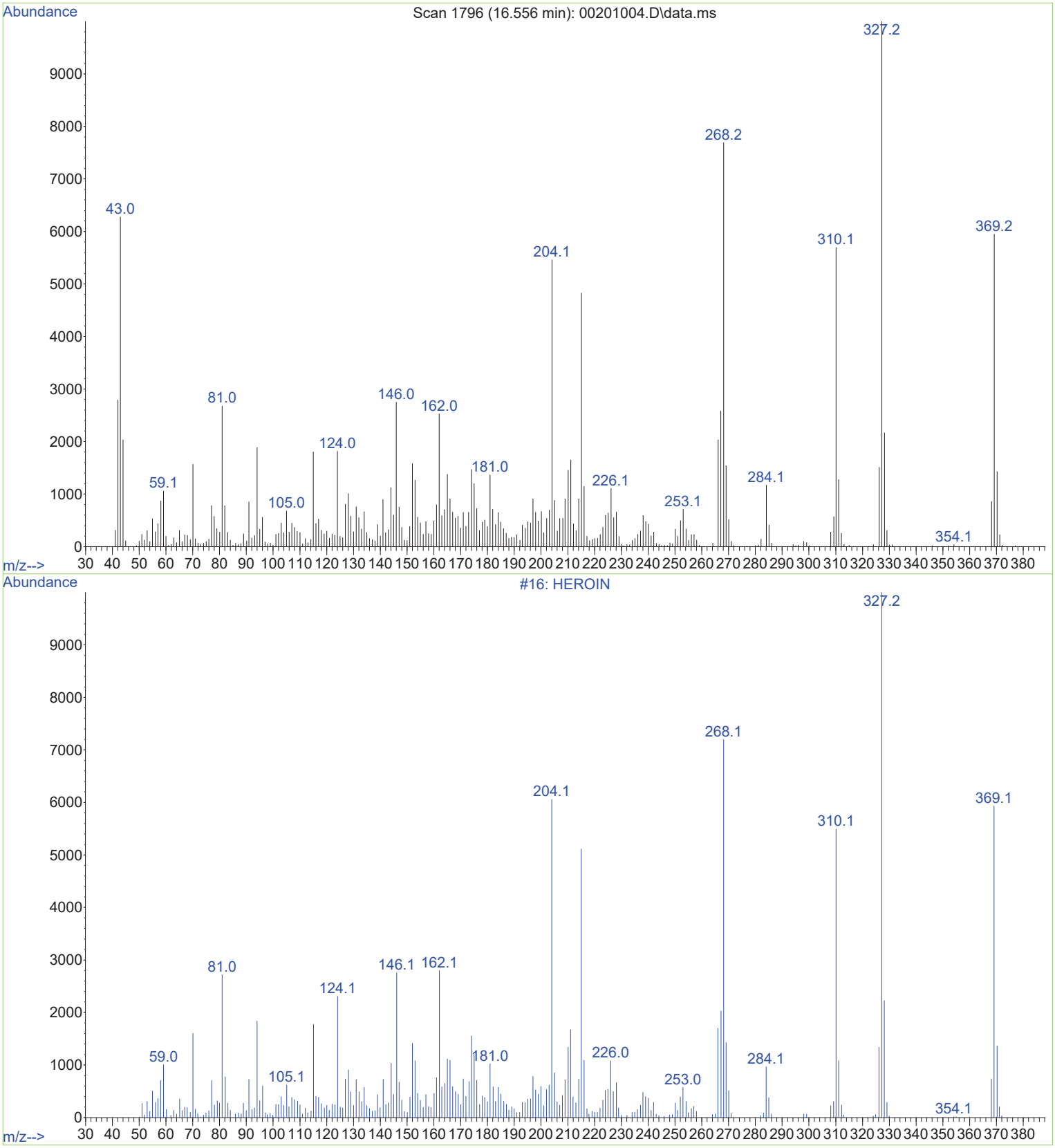


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Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

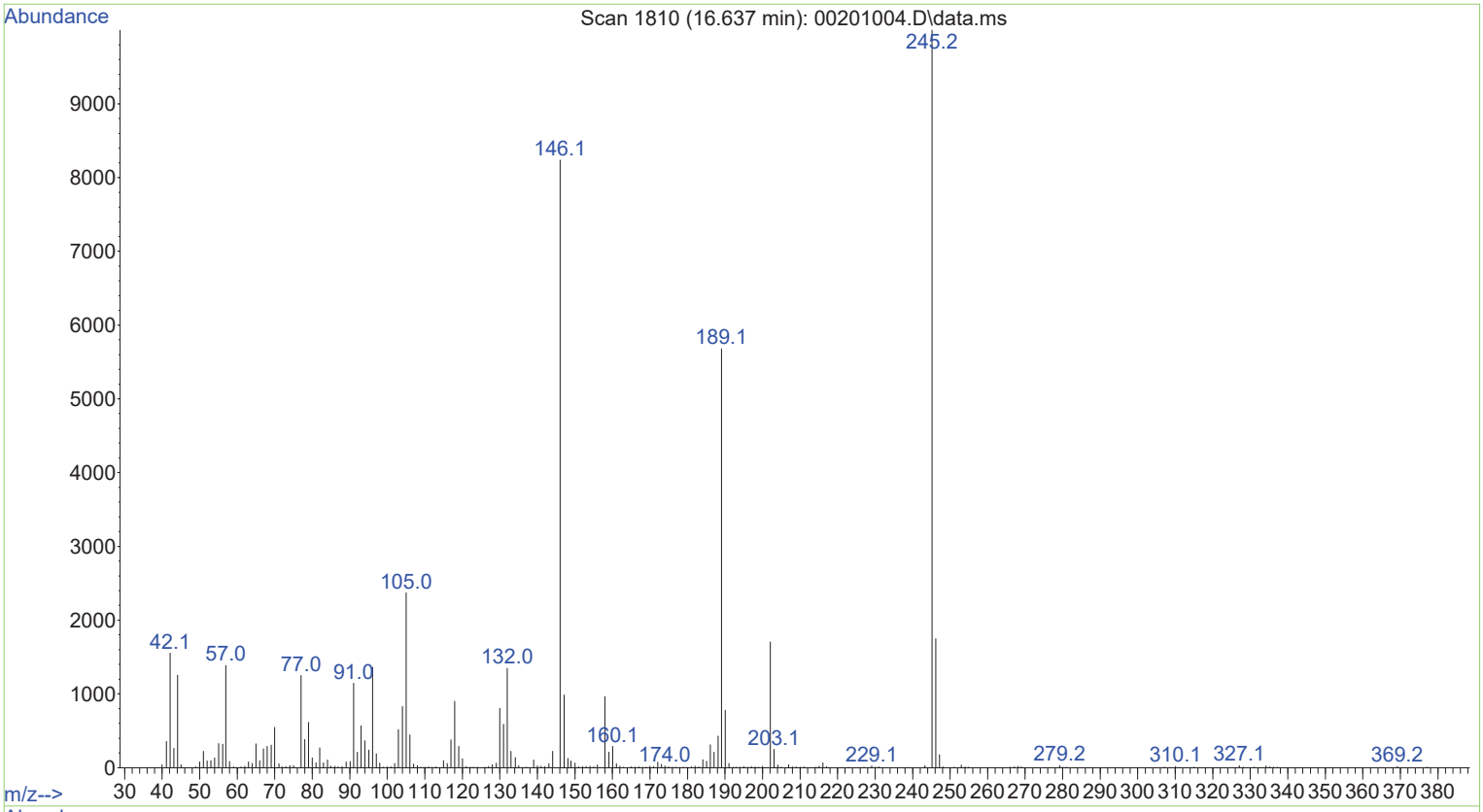


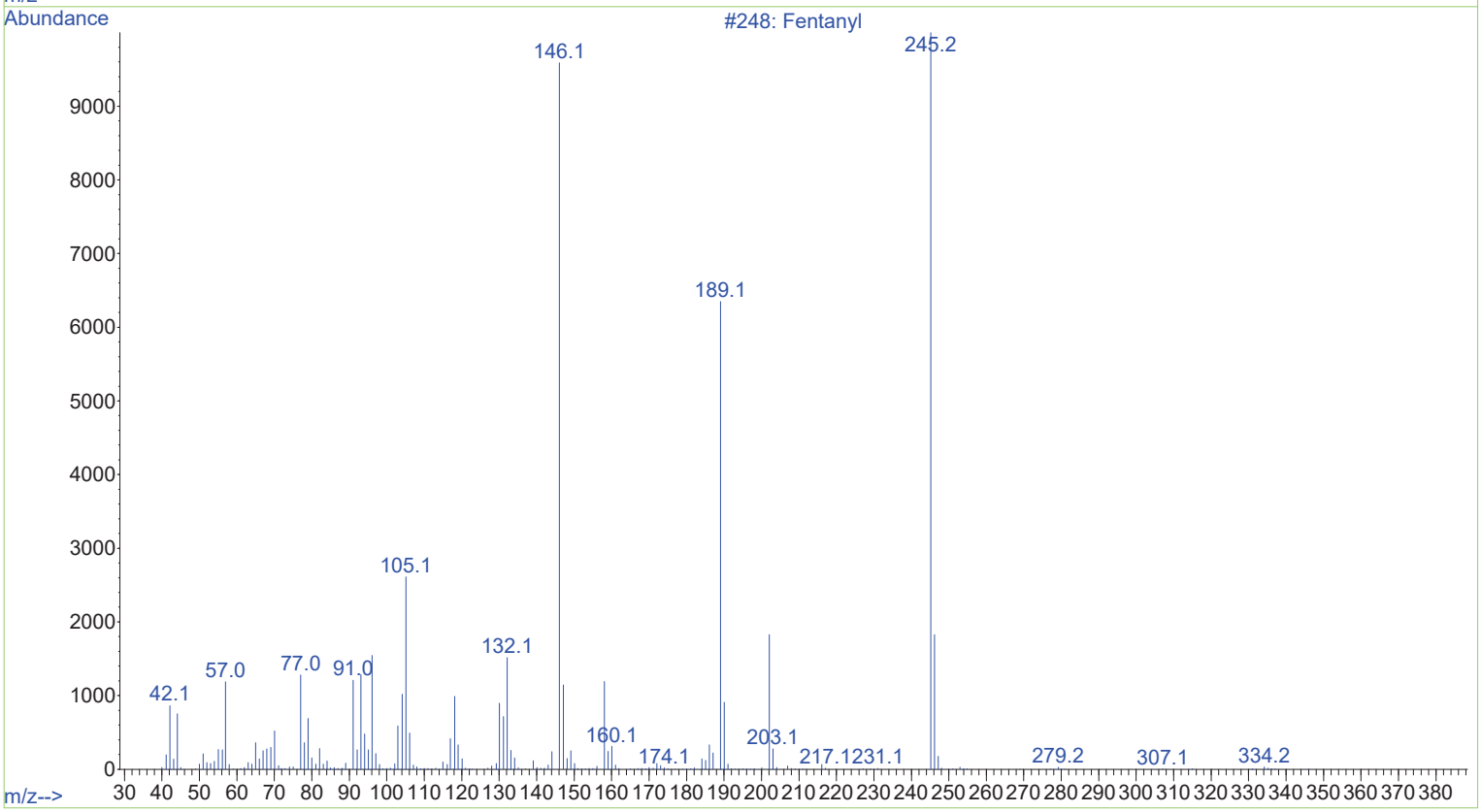


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Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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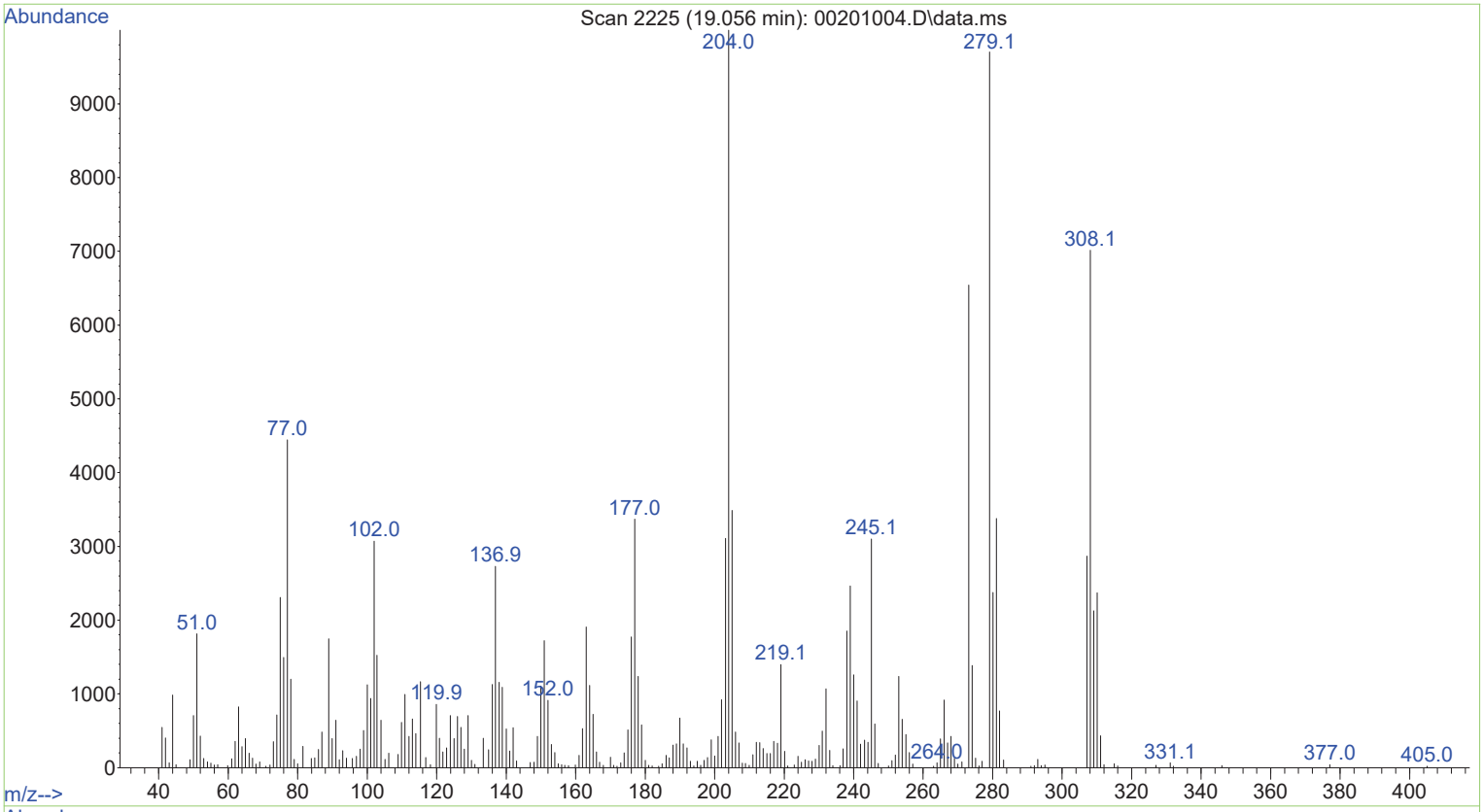


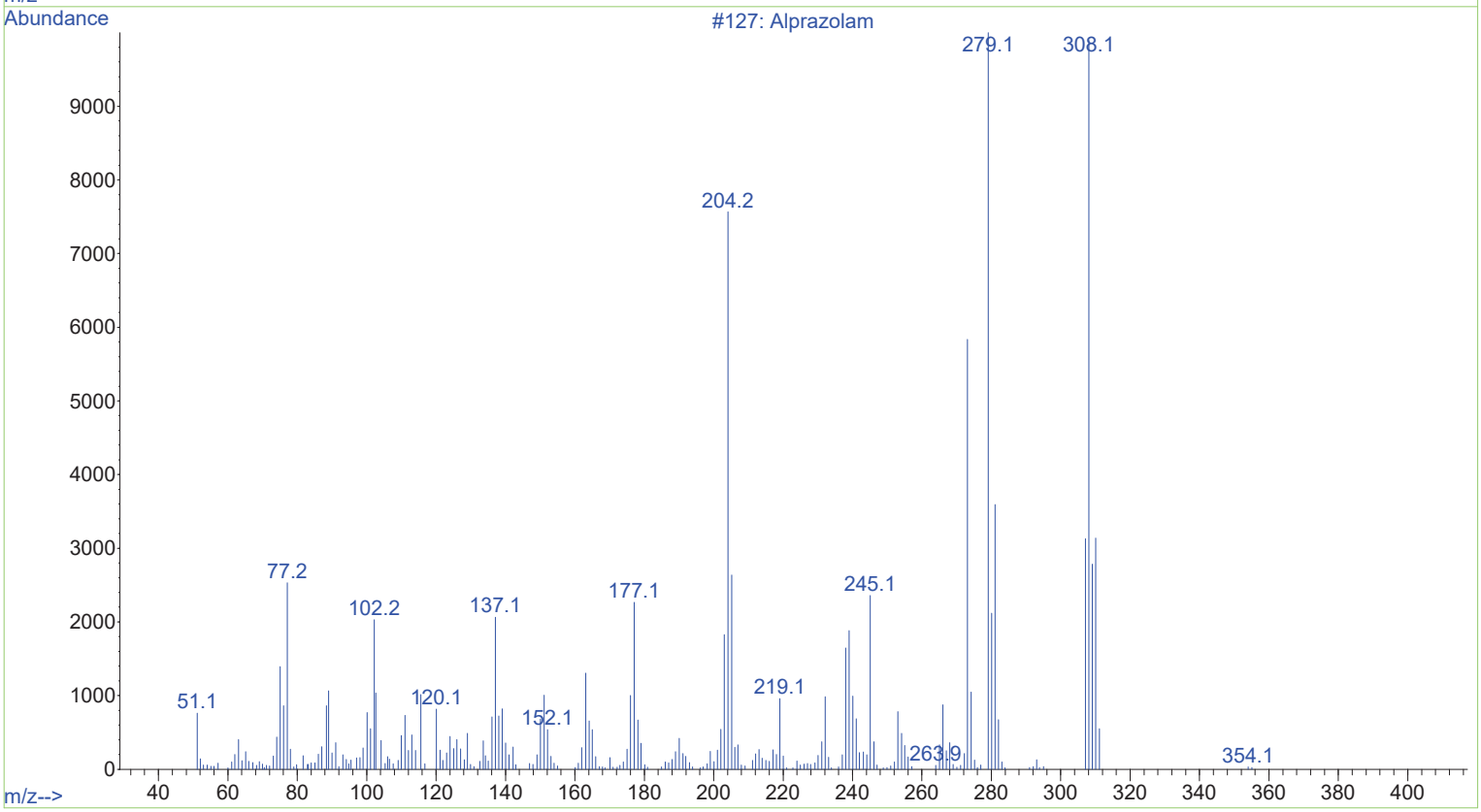
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



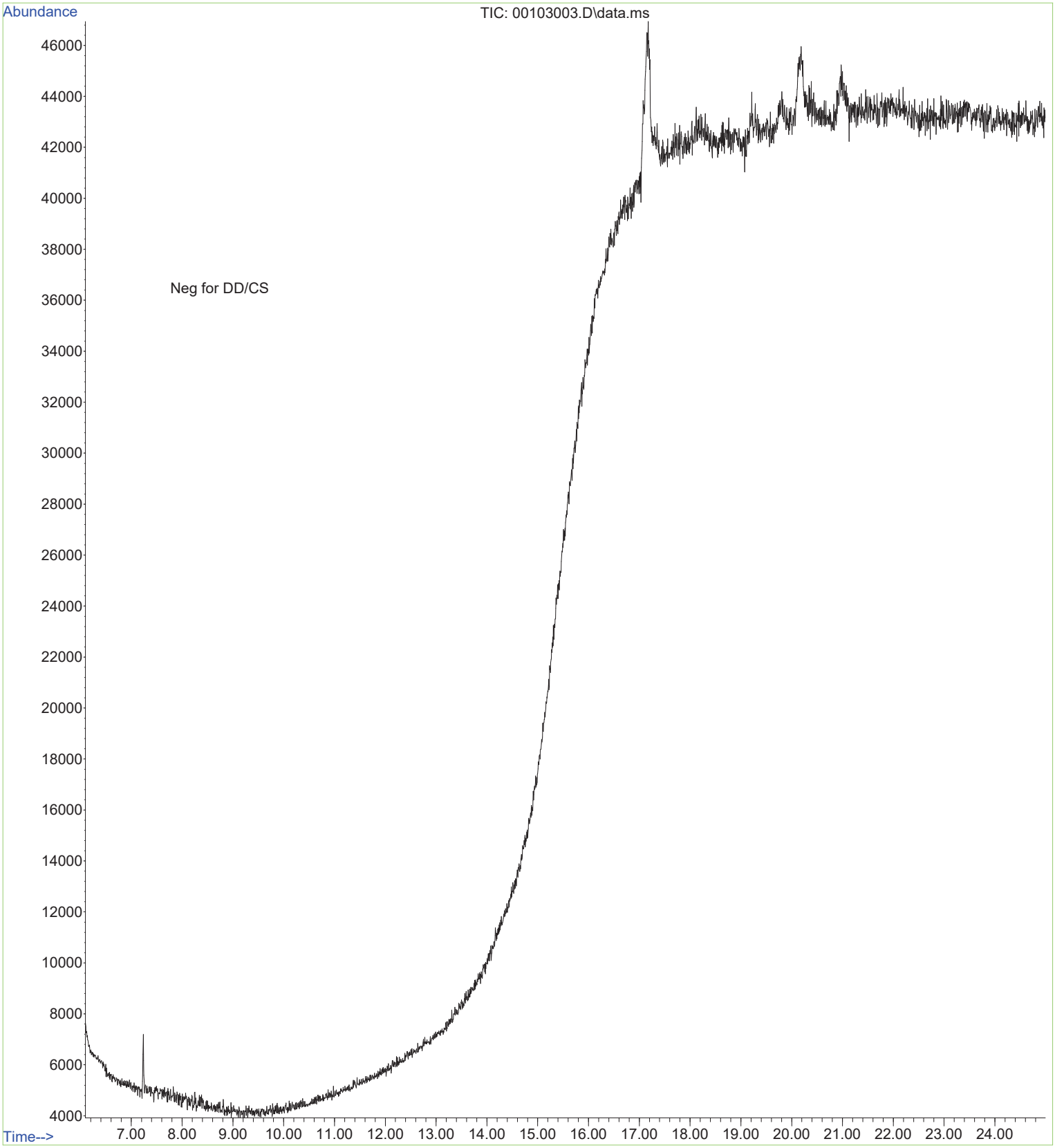


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Acquired   : 07 Jul 2025  09:45     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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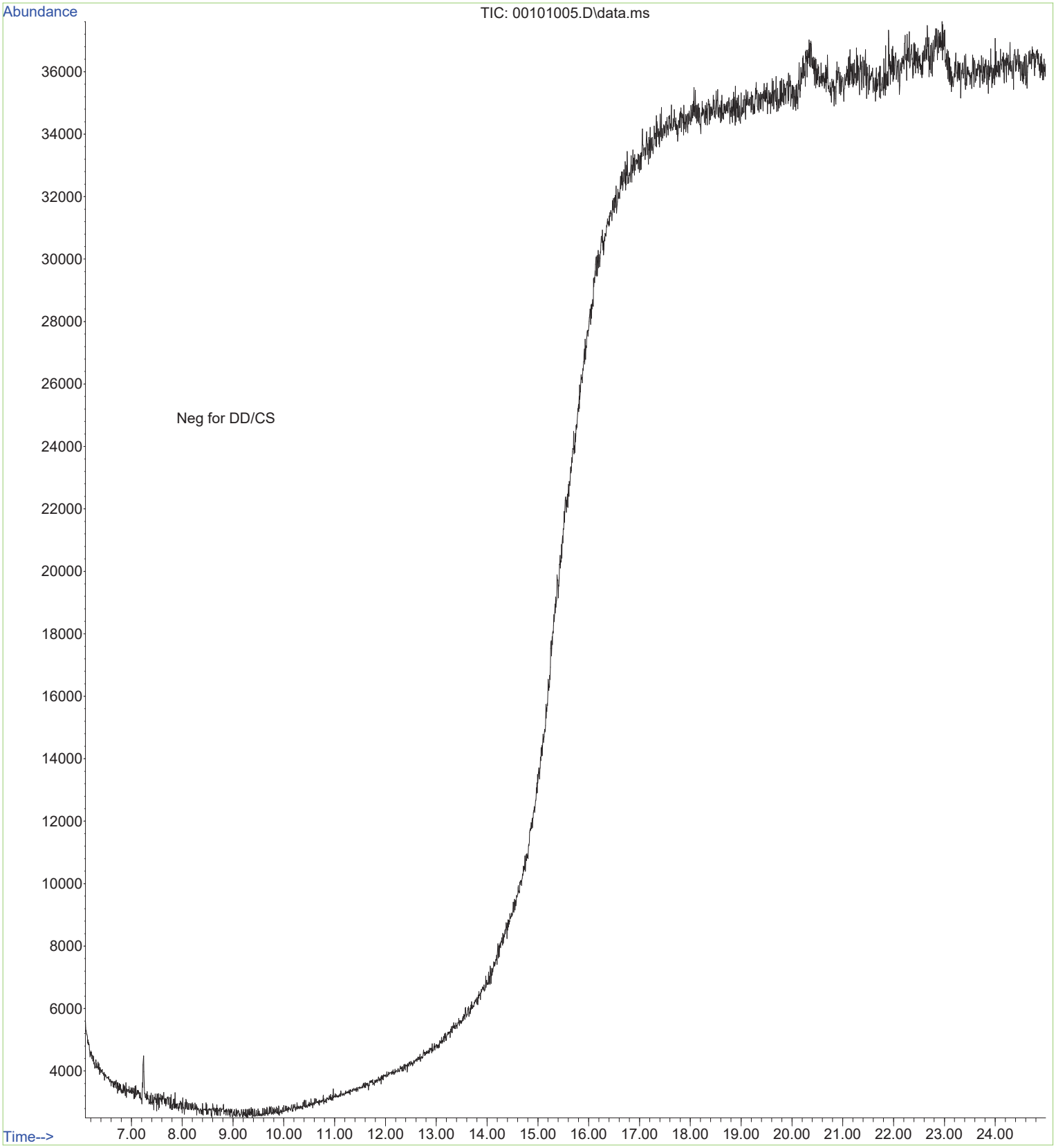




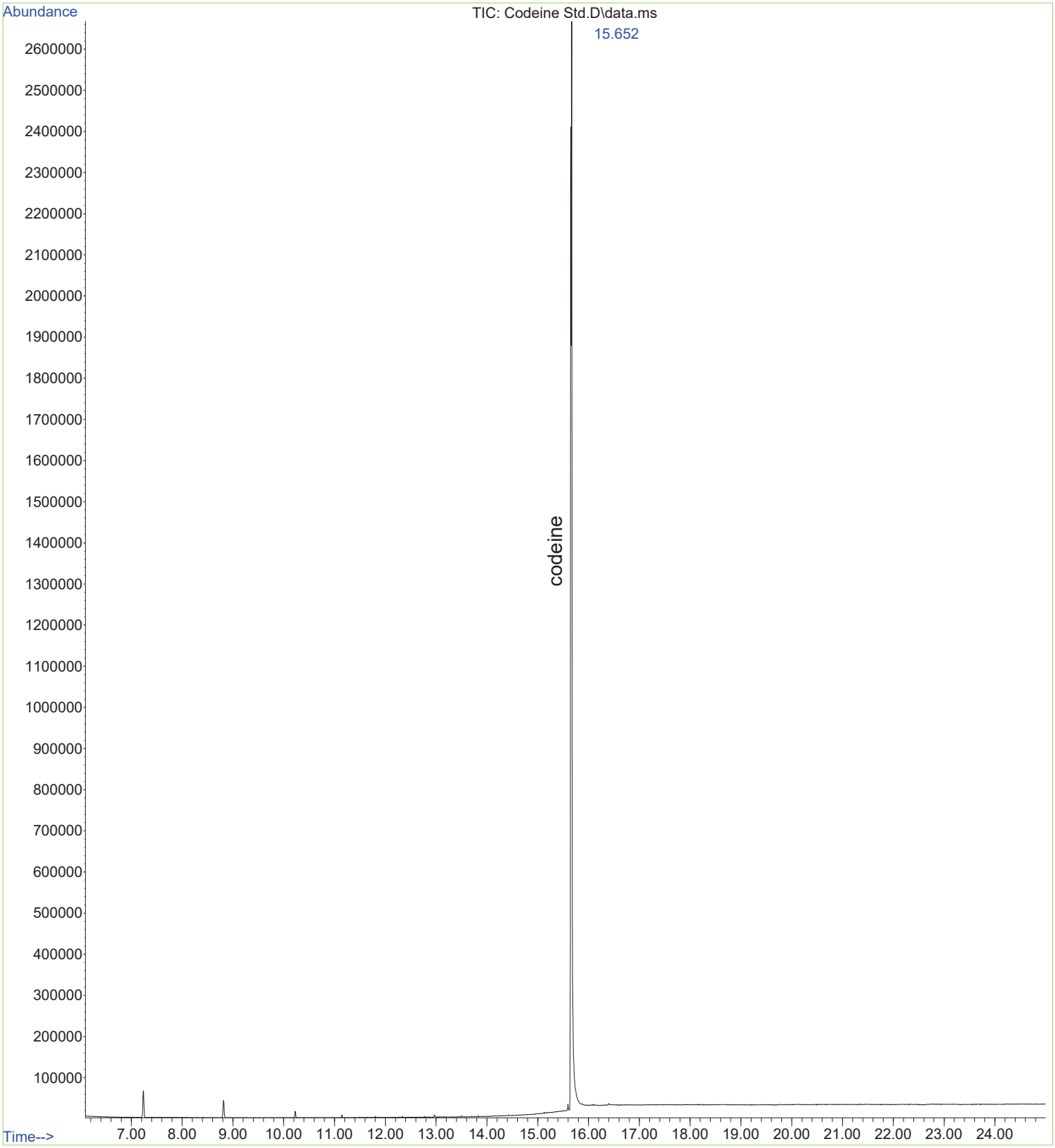
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Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



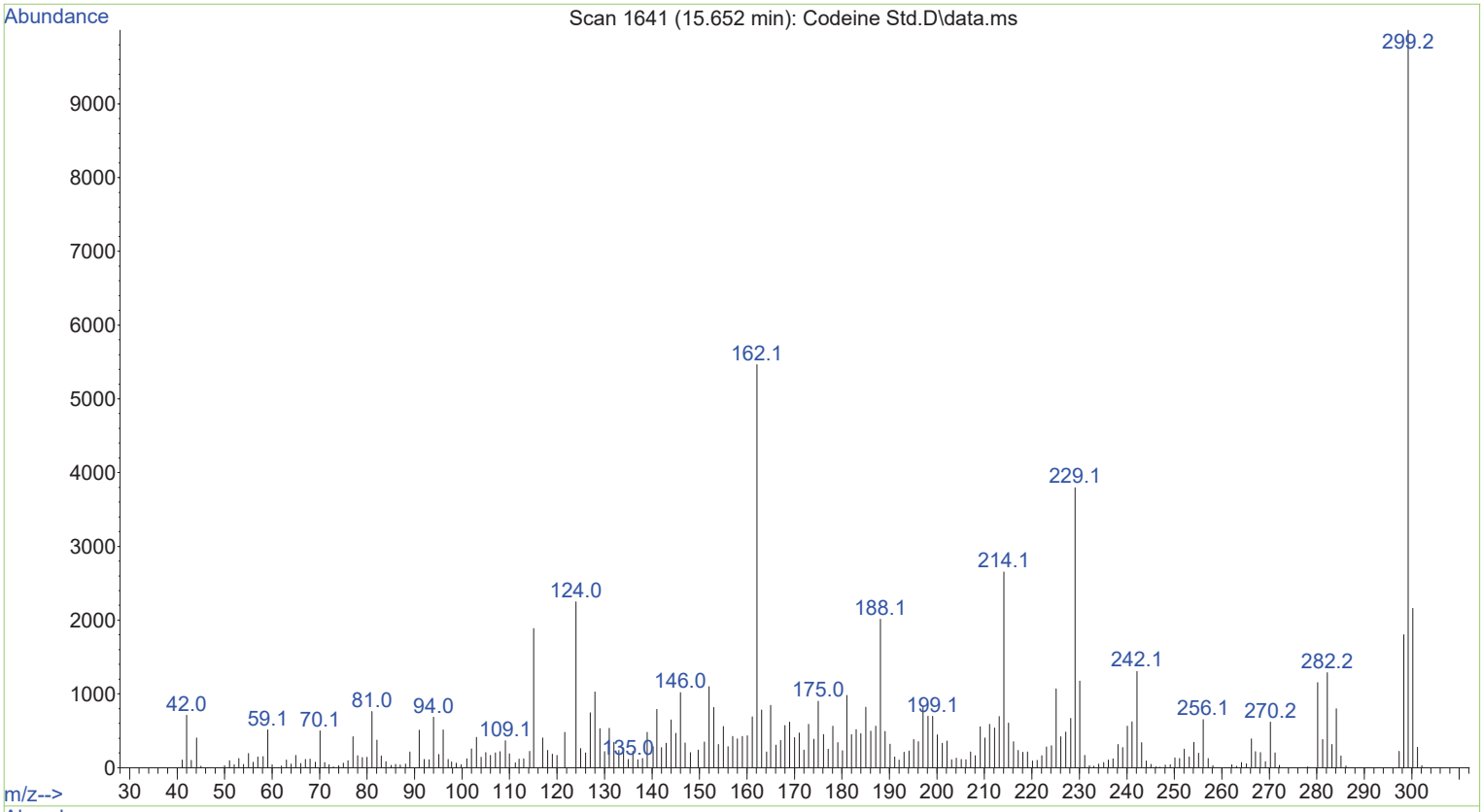
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Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

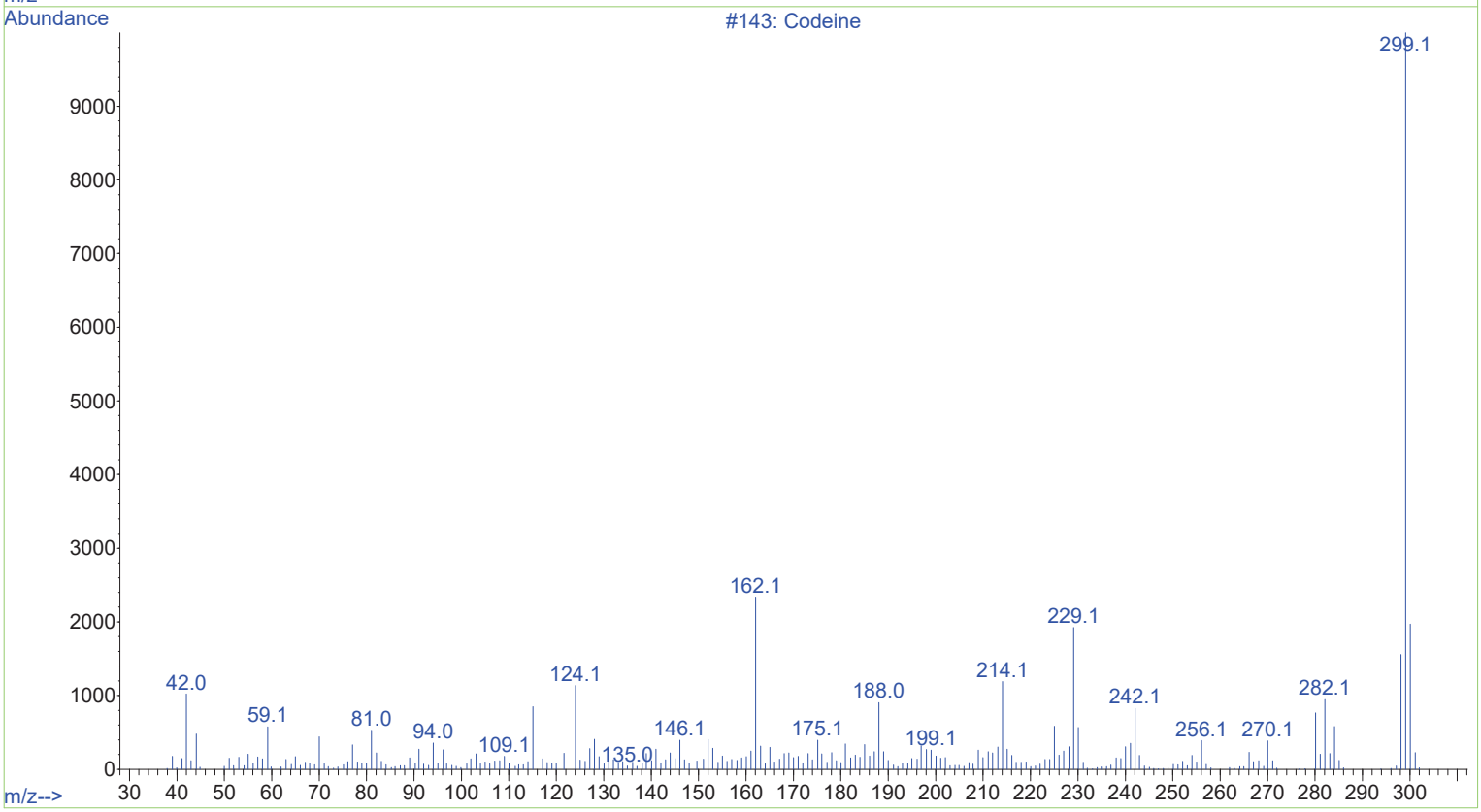


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Instrument : GCMS #4
Sample Name: Codeine (R-23-022) Std 000002645
Misc Info : Rt determination 000002645
Vial Number: 56

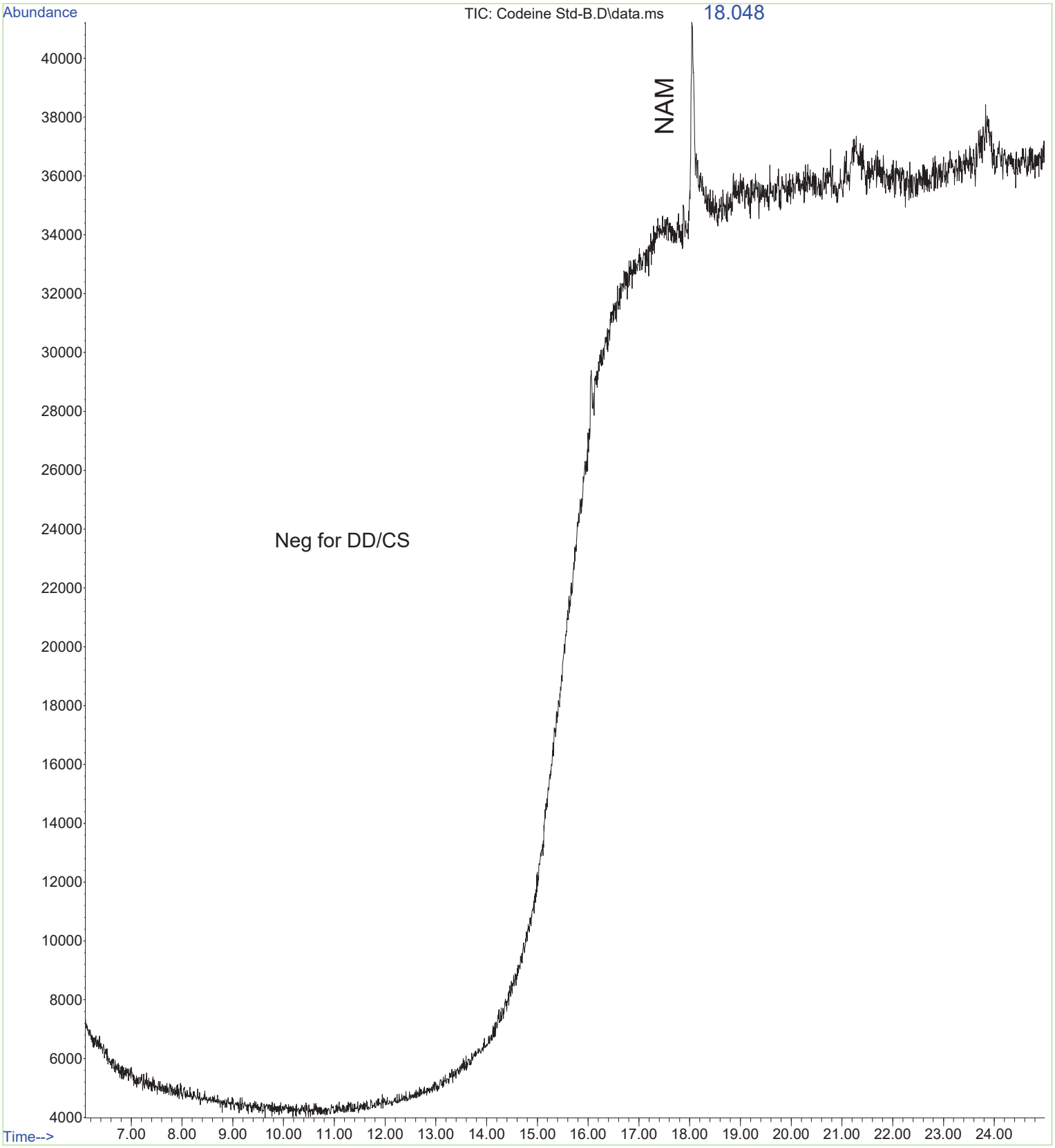


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Instrument : GCMS #4
Sample Name: Codeine (R-23-022) Std 000002645
Misc Info : Rt determination 000002645
Vial Number: 56

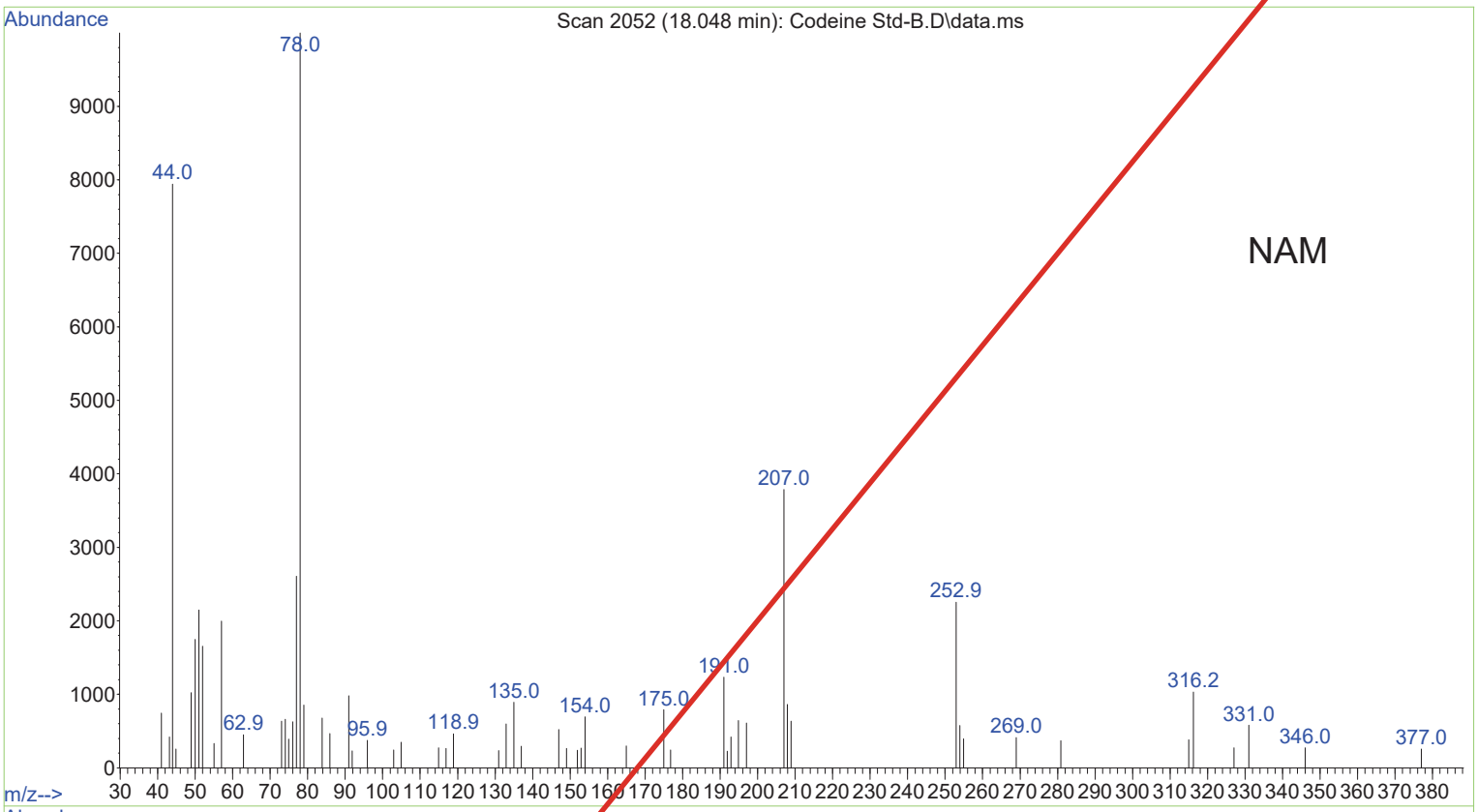


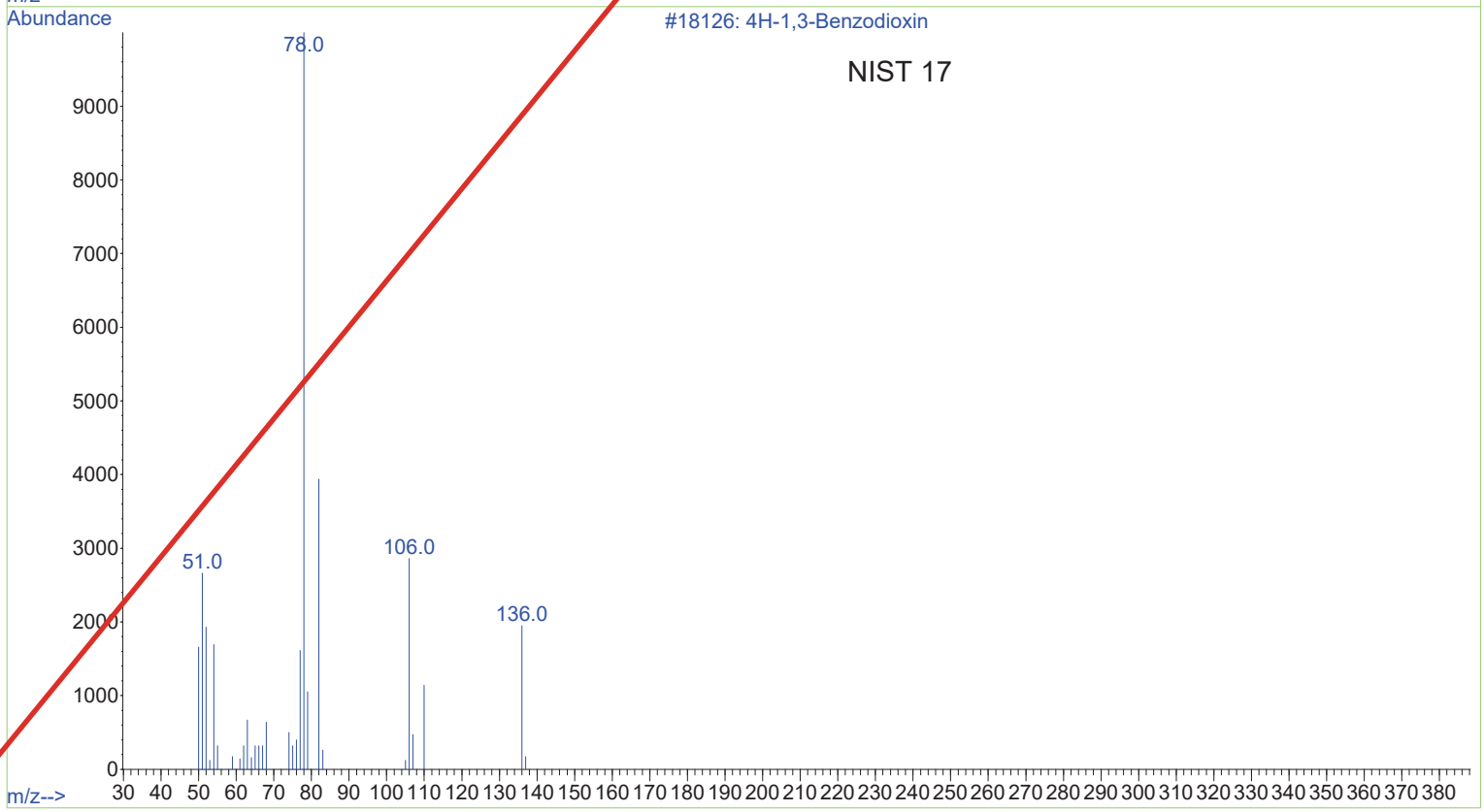


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Acquired : 09 Jul 2025 11:00 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to Codeine (R-23-022) Std 000002716
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B) 000002717
Vial Number: 53



File :D:\MassHunter\GCMS\1\GCMS 4 data\2025 Data\070925\Codeine St
... d-B.D
Acquired : 09 Jul 2025 11:00 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to Codeine (R-23-022) Std 000002716
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B) 000002717
Vial Number: 53

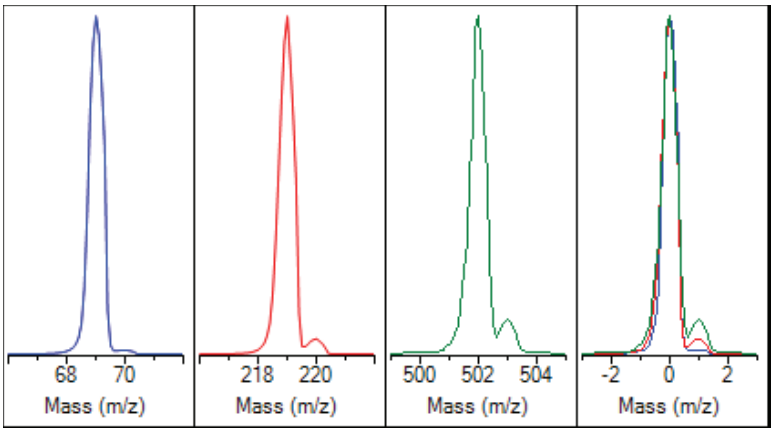




High Efficiency Source Autotune - 5977

Tune timestamp: 7/14/2025 6:51 AM (UTC-05:00) GCMS #4

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



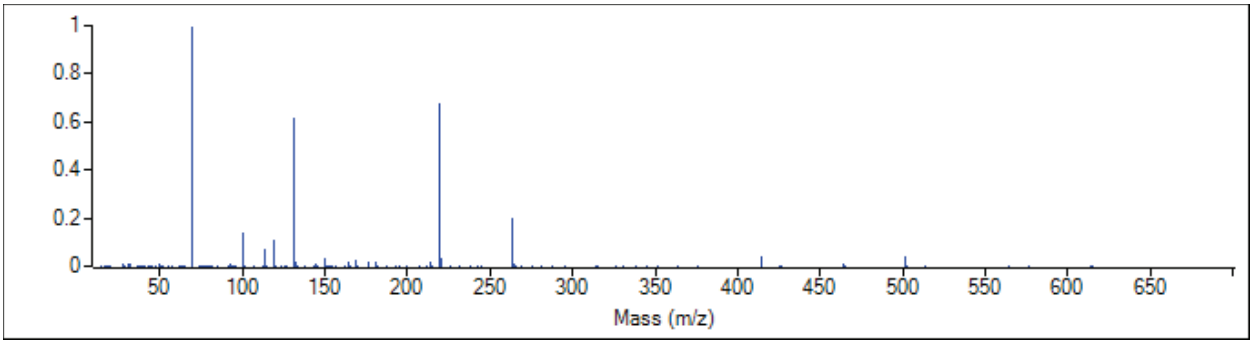
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	90
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2449
Repeller	14.79	Amu Offset	136.63
Ion Focus	135.7	Width219	0.000
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	15.10	HED Enable	On
Ion Body	5.00	EM Volts	1930.8
Post Extractor 1	13	Extractor Lens	11.50
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	520,536	100.0%	0.60
219.00	354,282	68.1%	0.62
502.00	19,856	3.8%	0.63

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.83e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	126	69.00	482,560	1,582,496



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	482,560	100.0%	70.00	5,830	1.2%
219.00	219.00	326,272	67.6%	220.00	14,897	4.6%
502.00	502.00	18,352	3.8%	503.00	1,774	9.7%

Air/Water Check: H20 ~0.3% N2 ~1.4% O2 ~0.5% CO2 ~0.1% N2/H20 ~442.7%

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 16798.581

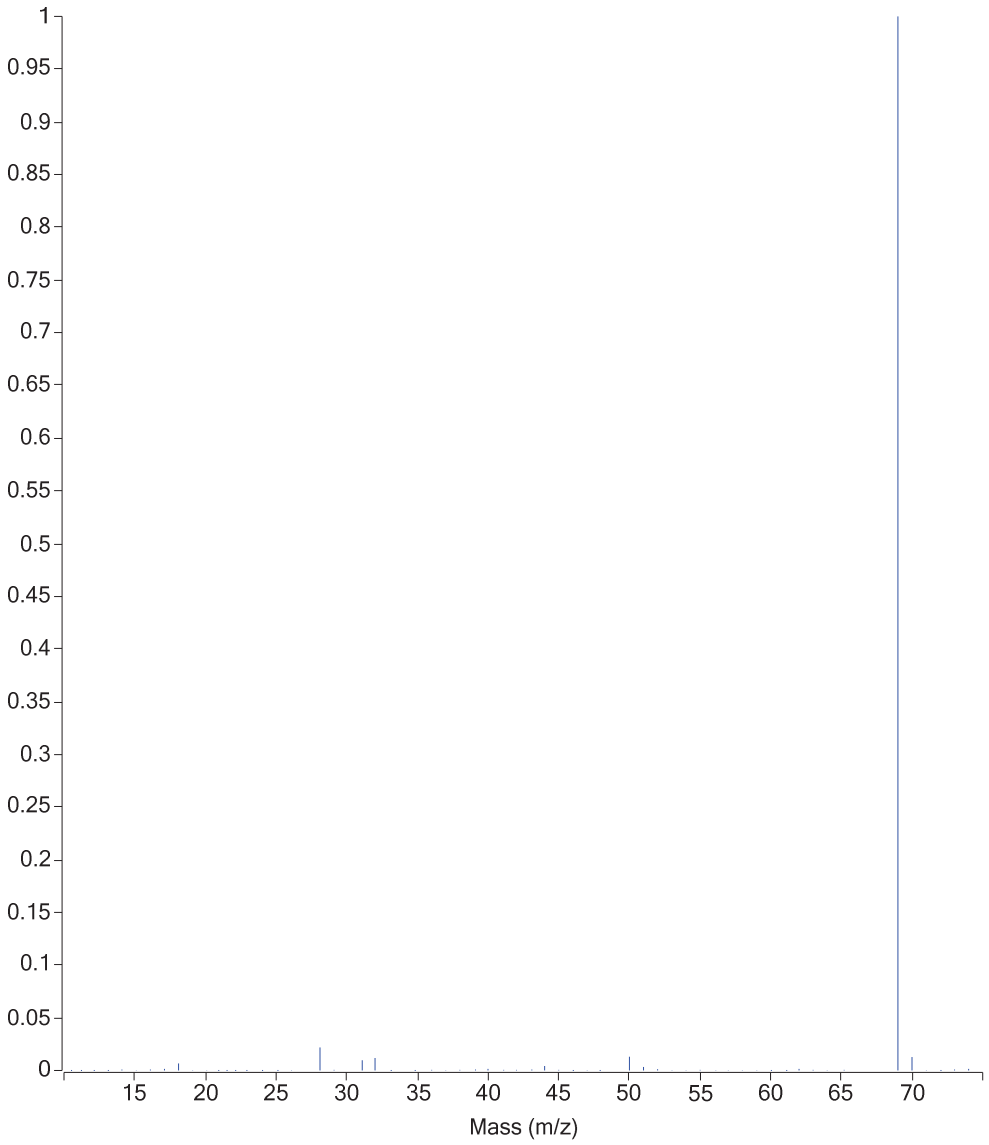
Repeller maximum 35 volts using ion 219; Gain Factor 0.1680

Mass Gain Values(Scan Speed): 91(3) 100(2) 100(1) 121(0) 174(FS1) 173(FS2) 118(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.6	136.6	136.6	136.6	136.6	136.6	136.6
Entrance Lens Offset	15.1	15.1	15.1	15.1	15.1	15.1	15.1

597x Air and Water Check

Instrument: GCMS #4
Mon Jul 14 06:38:17 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.67	Water%	(counts=5883)
28/69 =	2.18	Nitrogen%	(counts=18992)
32/69 =	1.19	Oxygen%	(counts=10392)
44/69 =	0.44	Carbon Dioxide%	(counts=3800)
28/18 =	322.83	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.37E-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%)	1.22	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%)	10.24	OK
Ratio of 219 to 69 should be > 40% and is	72.62	OK
Ratio of 502 to 69 should be > 2.4% and is	4.01	OK
Mass 69 Precursor (<= 3%)	0.89	OK
Mass 219 Precursor (<= 6%)	2.96	OK
Mass 502 Precursor (<= 12%)	5.01	OK

597x Air and Water Check
Mon Jul 14 07:02:12 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%)	0.32	OK
Ratio of 28 to 69 (<10%)	1.44	OK
Electron Multiplier Voltage	1931	OK

Tune portion of System Verification passed.

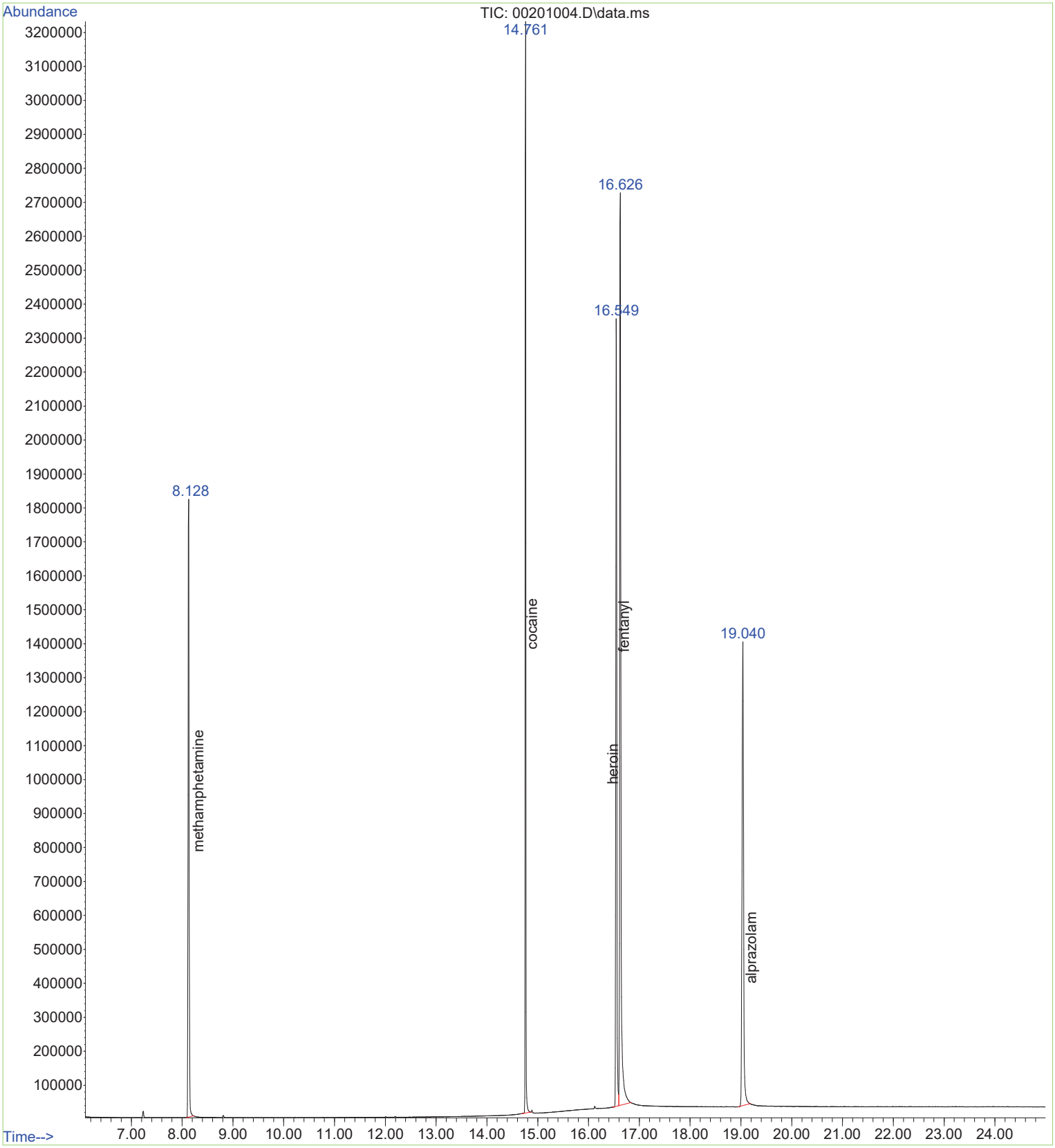
BCCL GC/MS #4
Retention Times for the Week of:

07/14/2025 - 07/20/2025

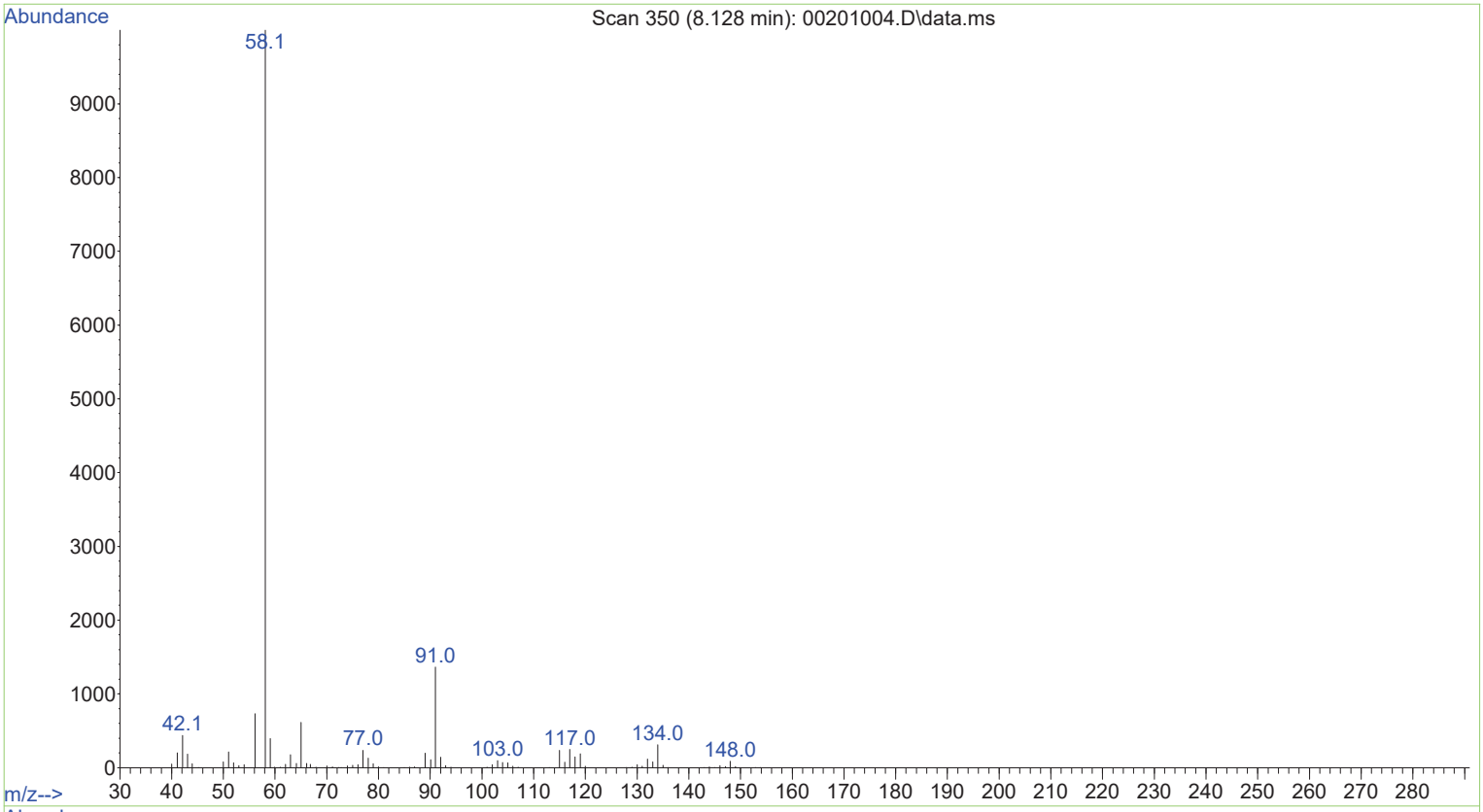
[X] **Tune: KB 07/14/2025 - HES Autotune**

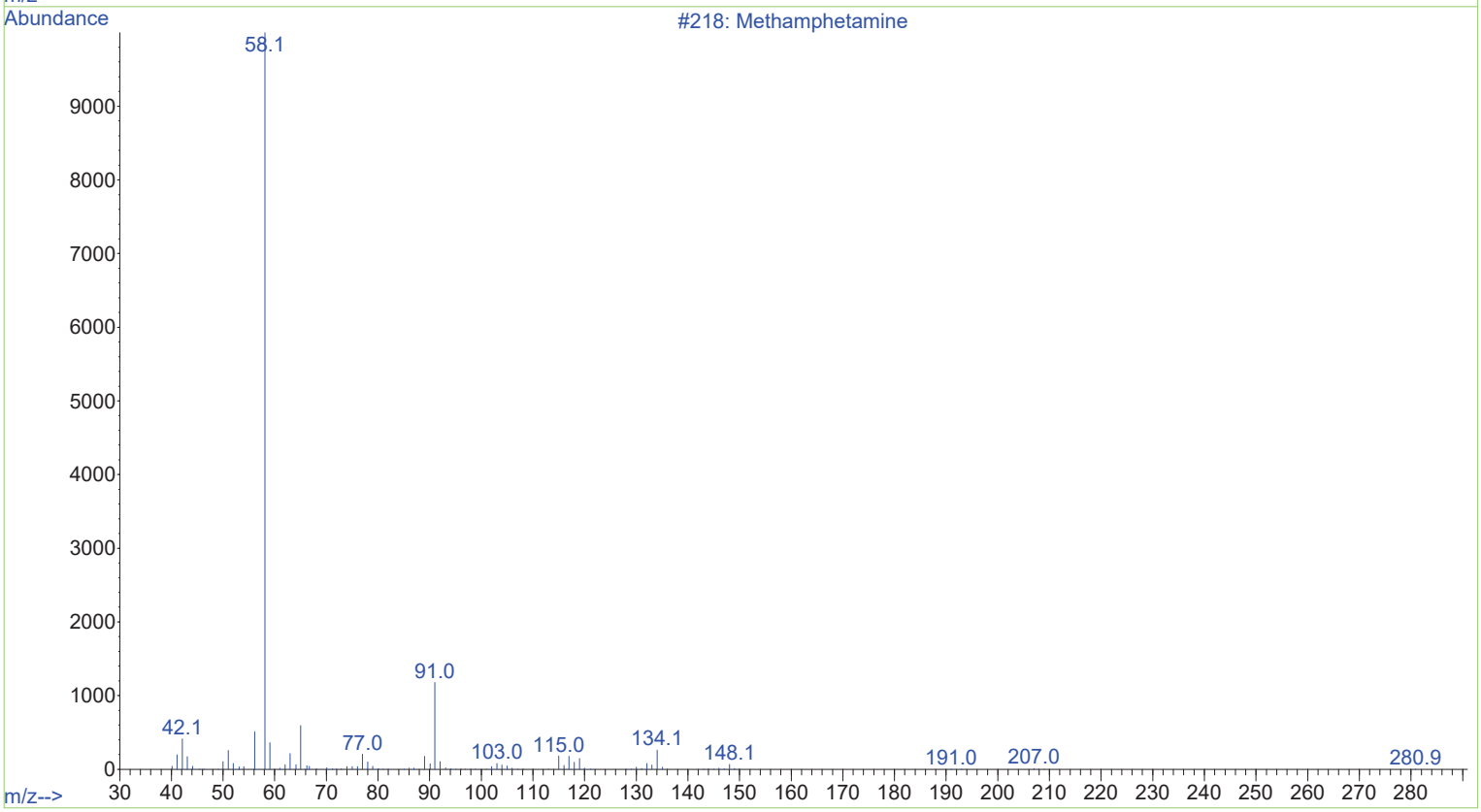
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.128	8.046	8.209
Cocaine	R-24-060	DrugTest35MS	14.761	14.613	14.908
Heroin	R-24-060	DrugTest35MS	16.549	16.383	16.714
Fentanyl	R-24-060	DrugTest35MS	16.626	16.459	16.792
Alprazolam	R-24-060	DrugTest35MS	19.040	18.849	19.230

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\071624\00201004.D
Acquired : 16 Jul 2025 09:01 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

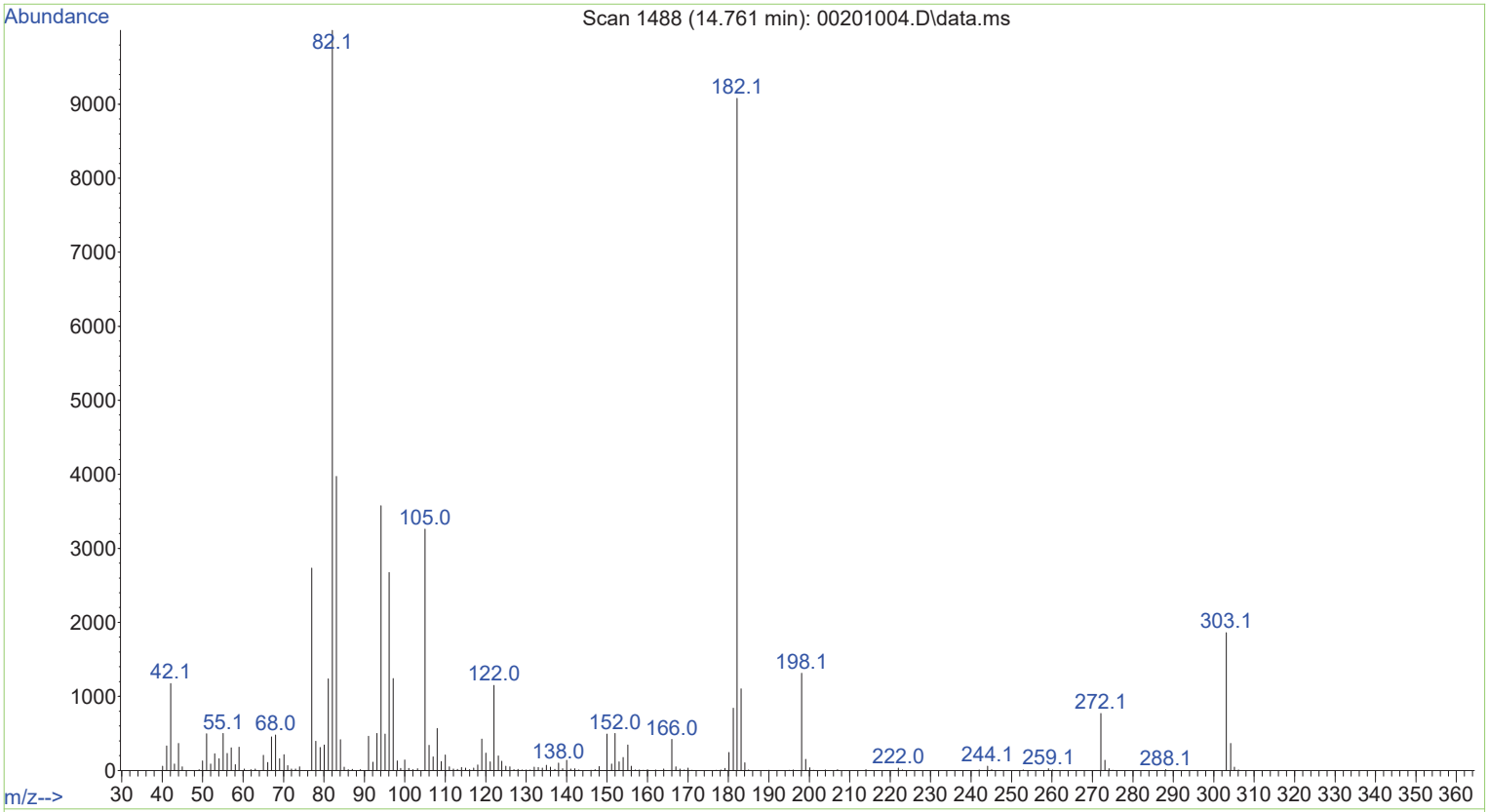


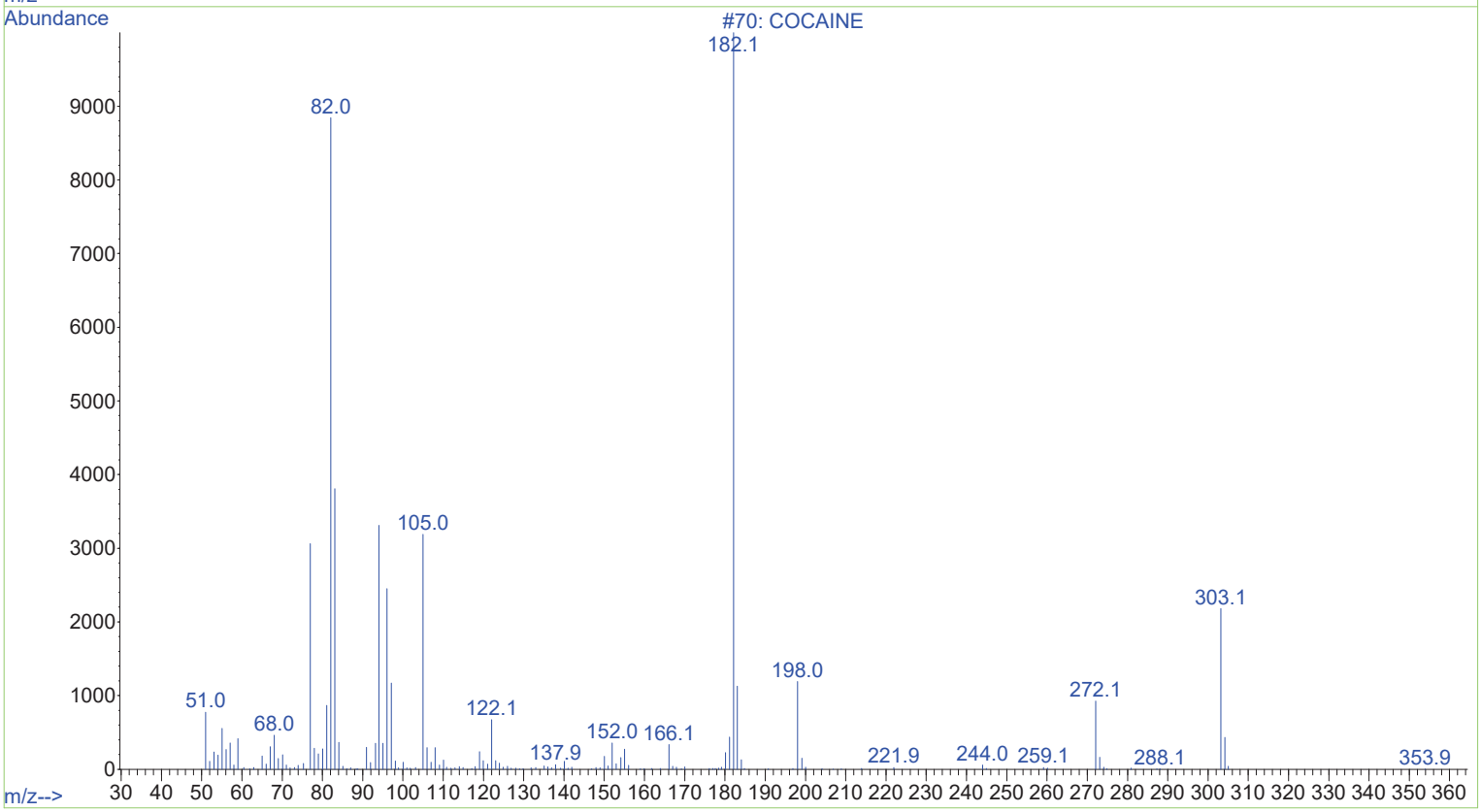
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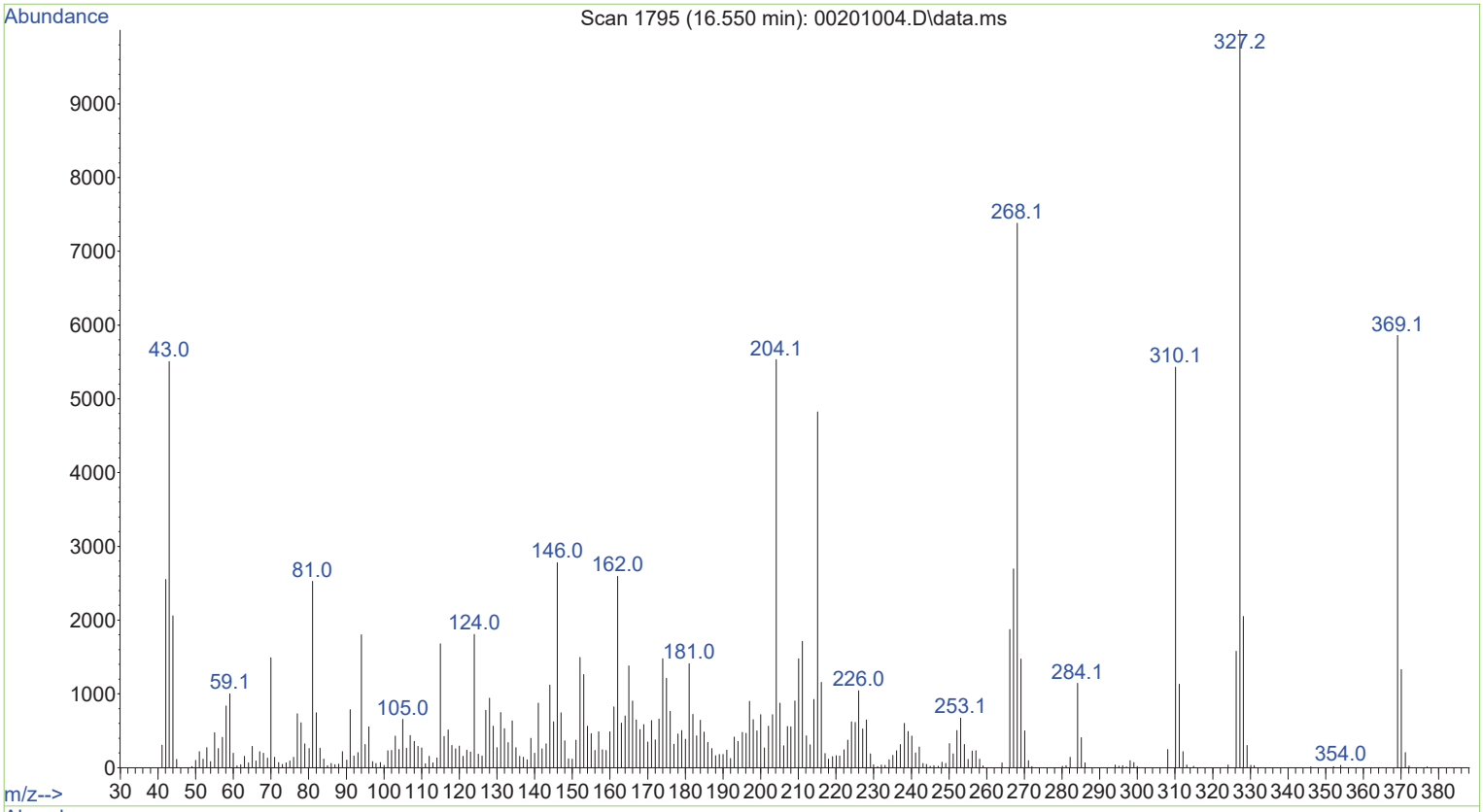


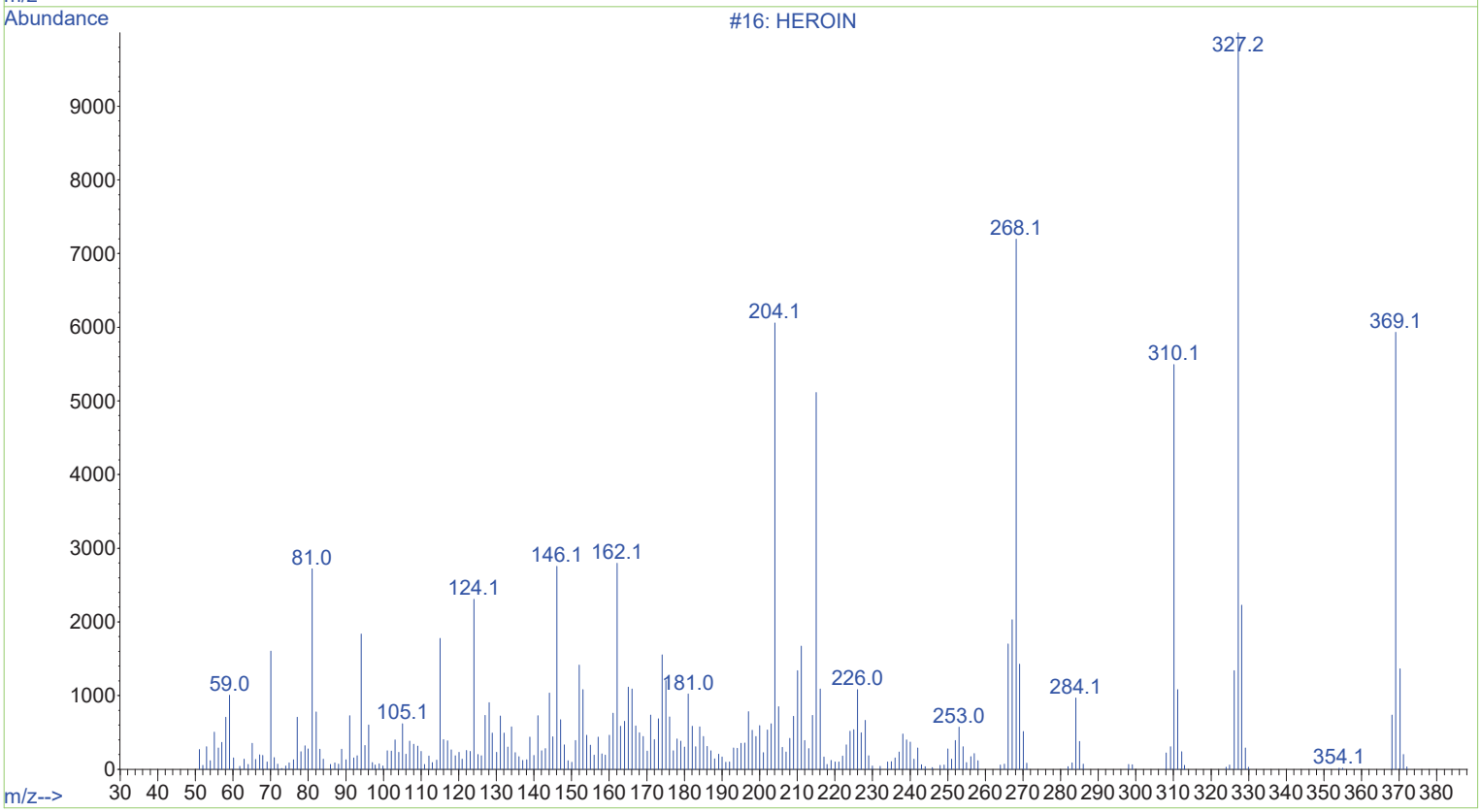
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... 2025 Data\071624\00201004.D
Acquired : 16 Jul 2025 09:01 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



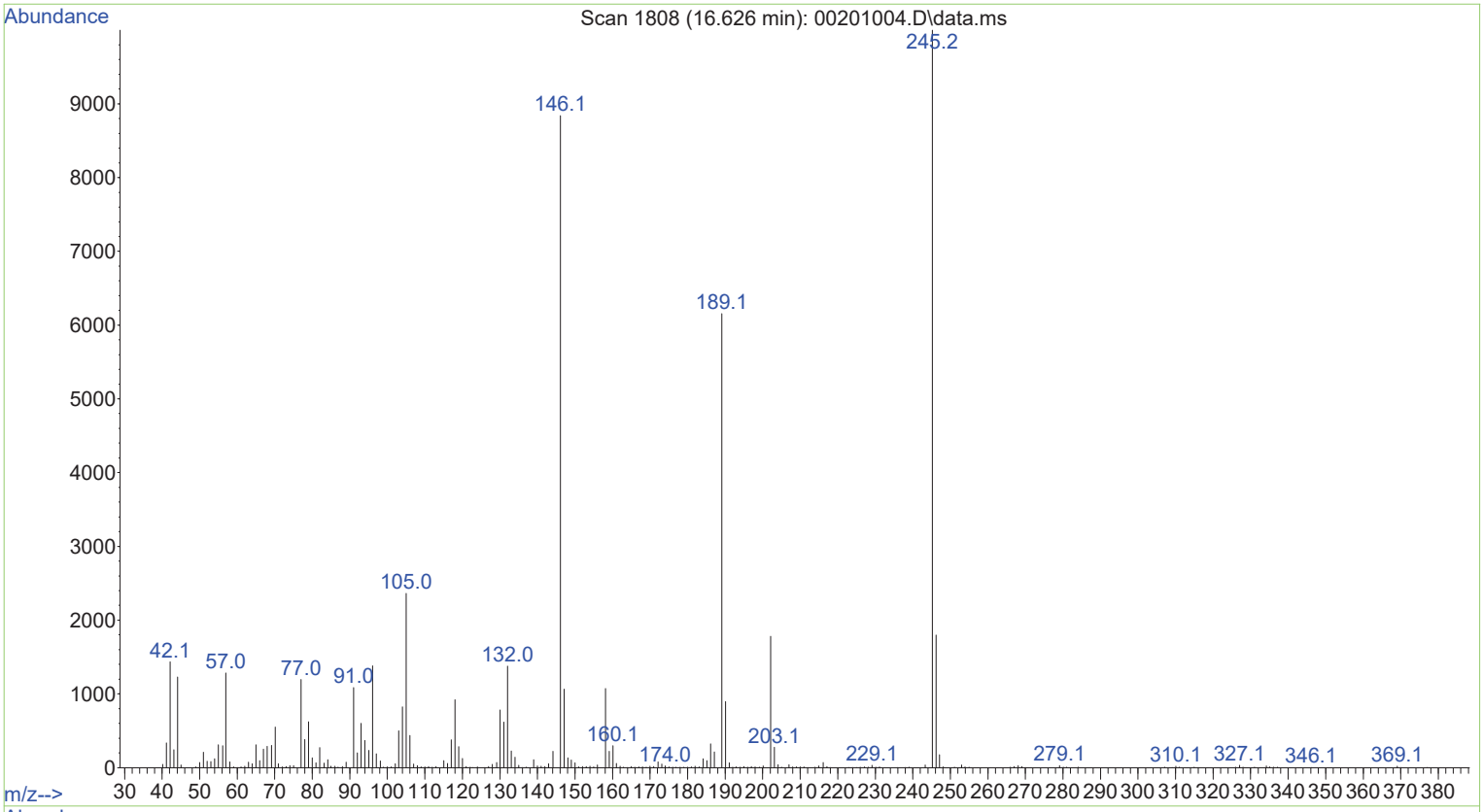


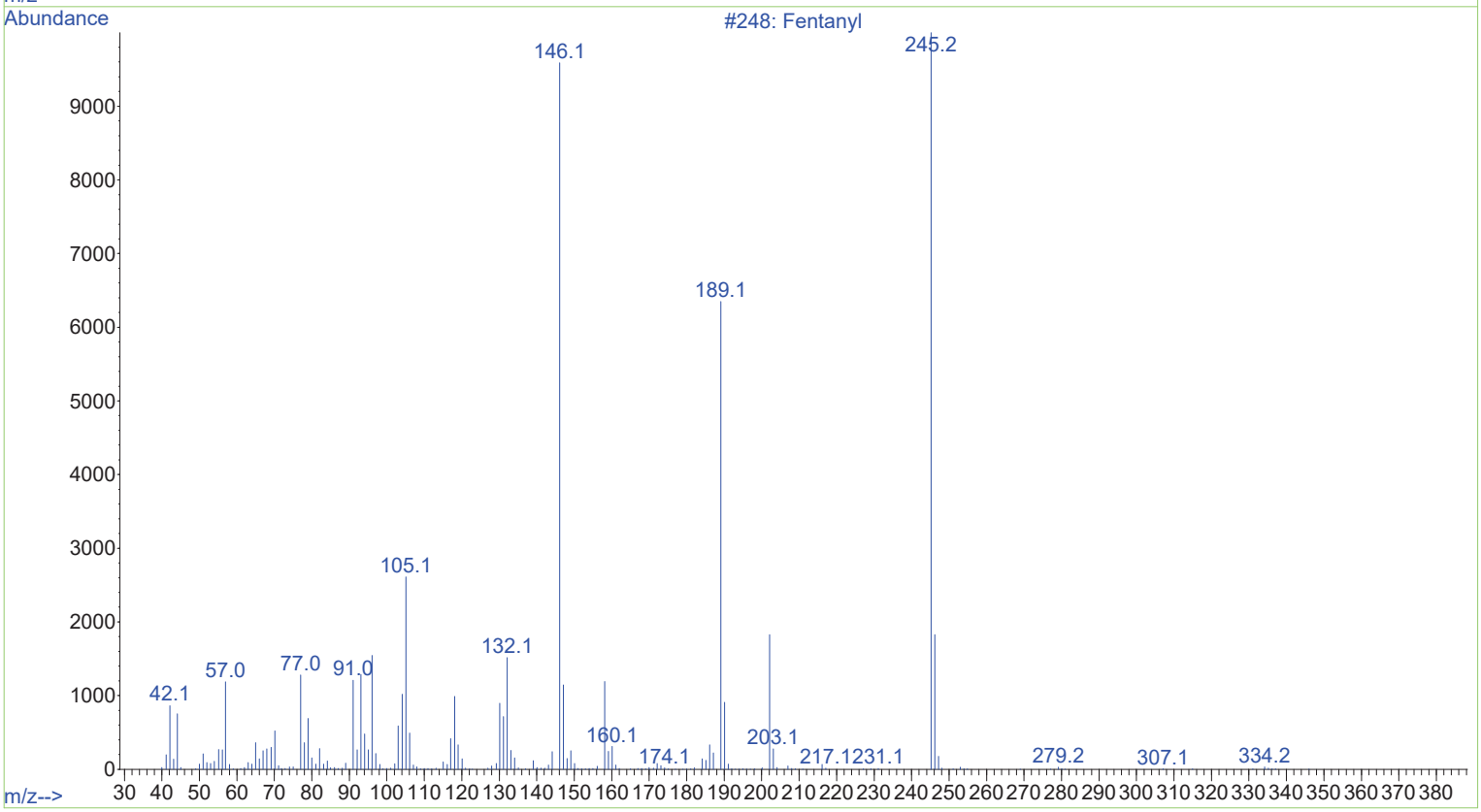
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\071624\00201004.D
Acquired : 16 Jul 2025 09:01 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



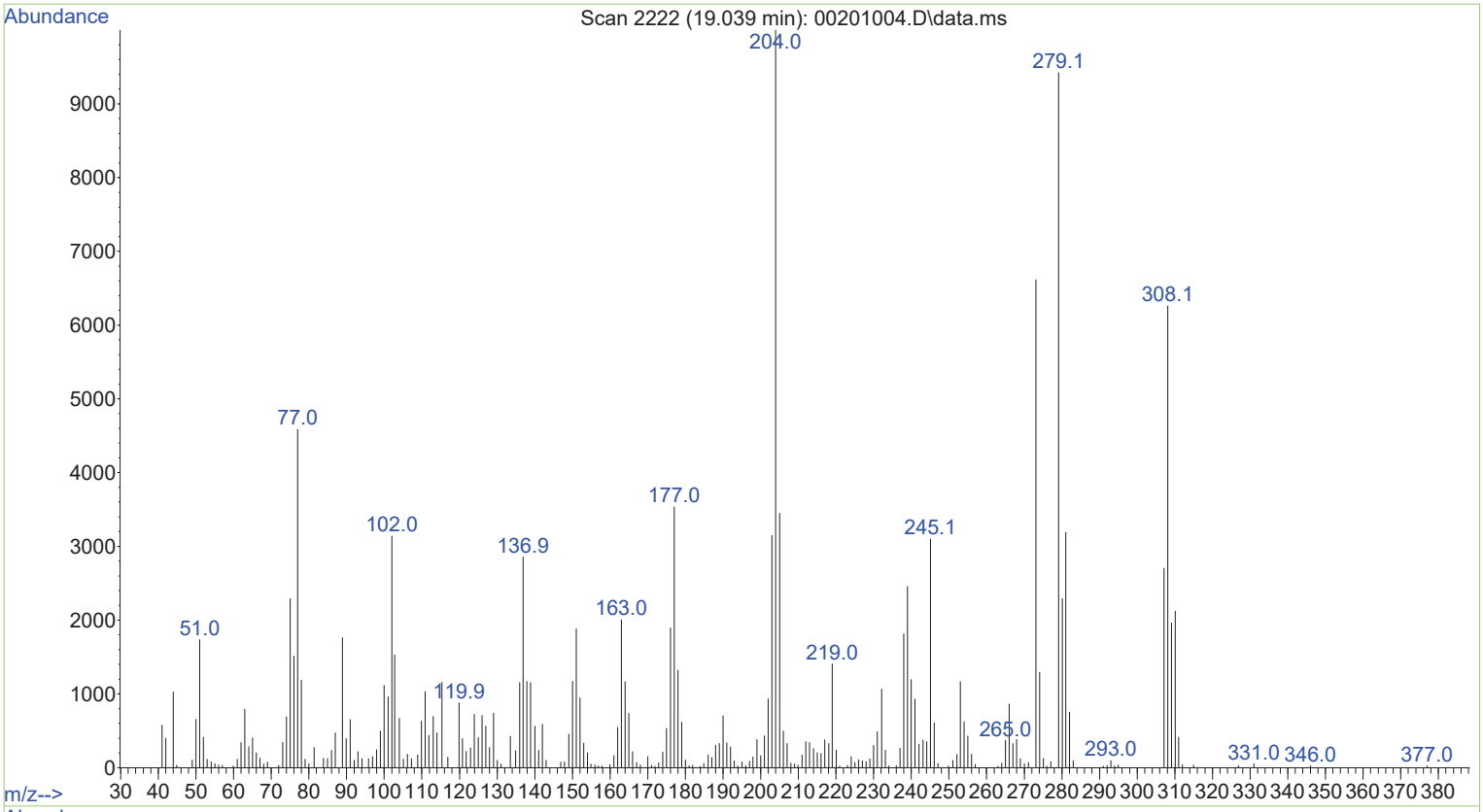


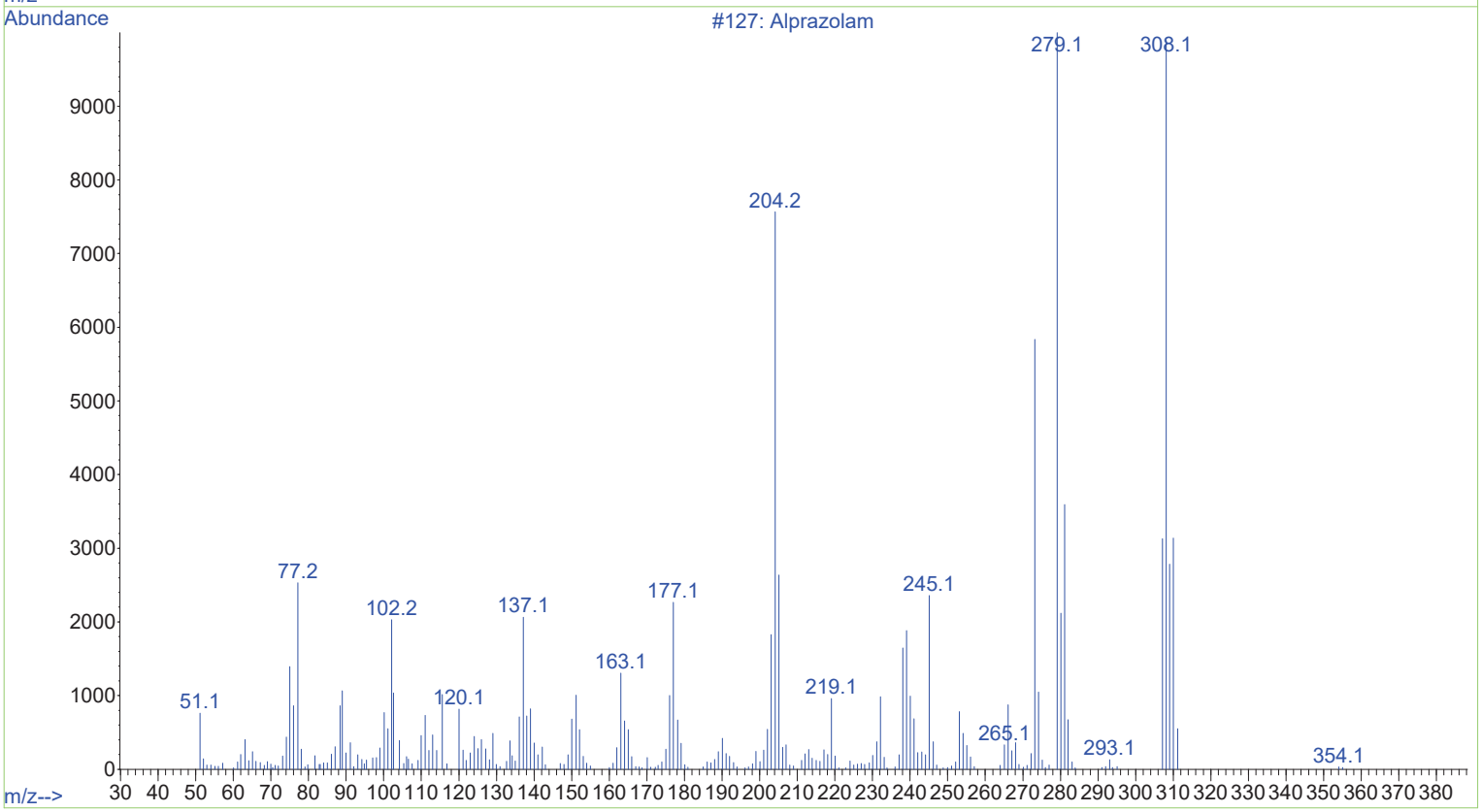
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... 2025 Data\071624\00201004.D
Acquired : 16 Jul 2025 09:01 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



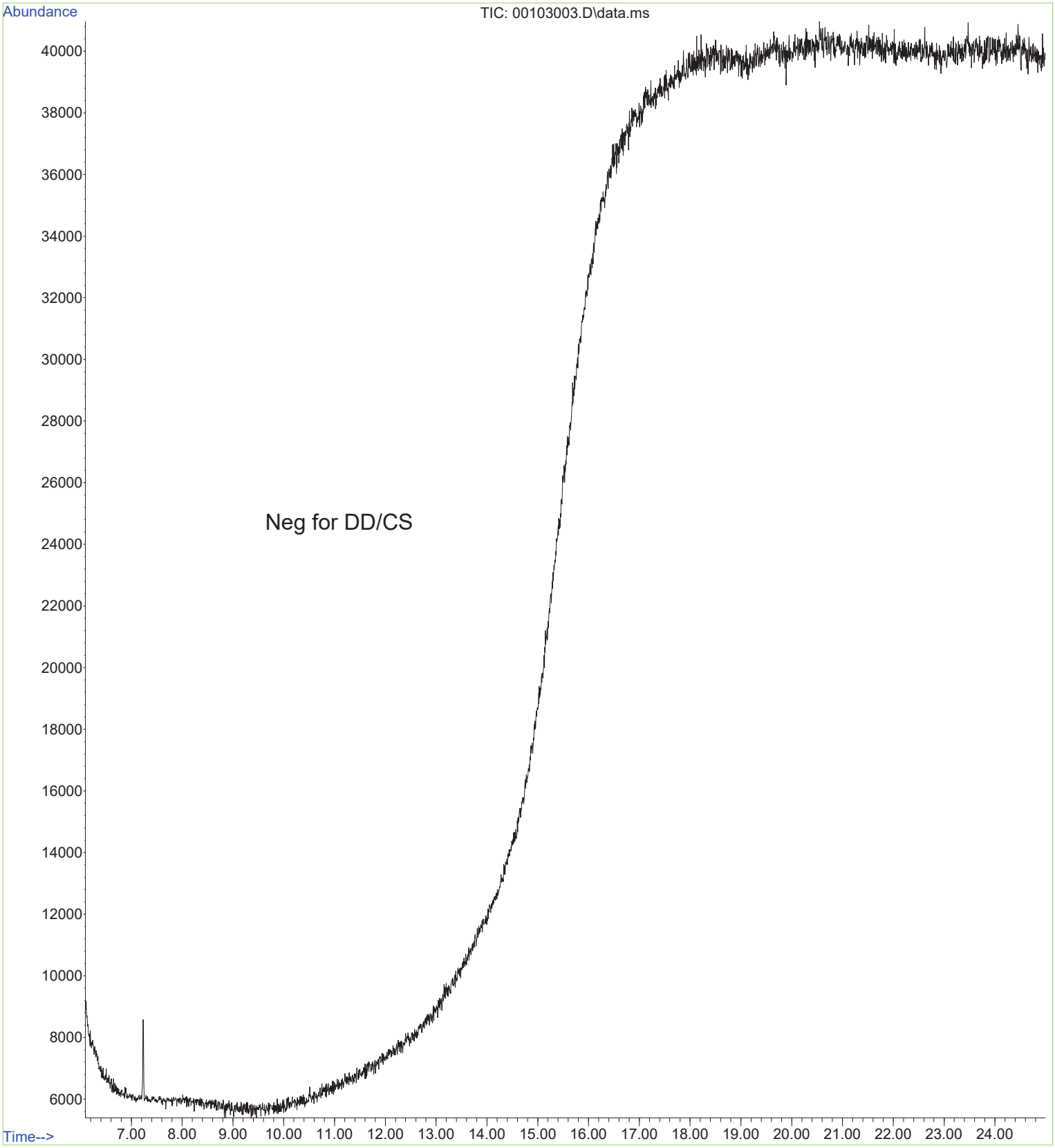


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
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Instrument : GCMS #4
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Misc Info : in ACN 000002669
Vial Number: 2

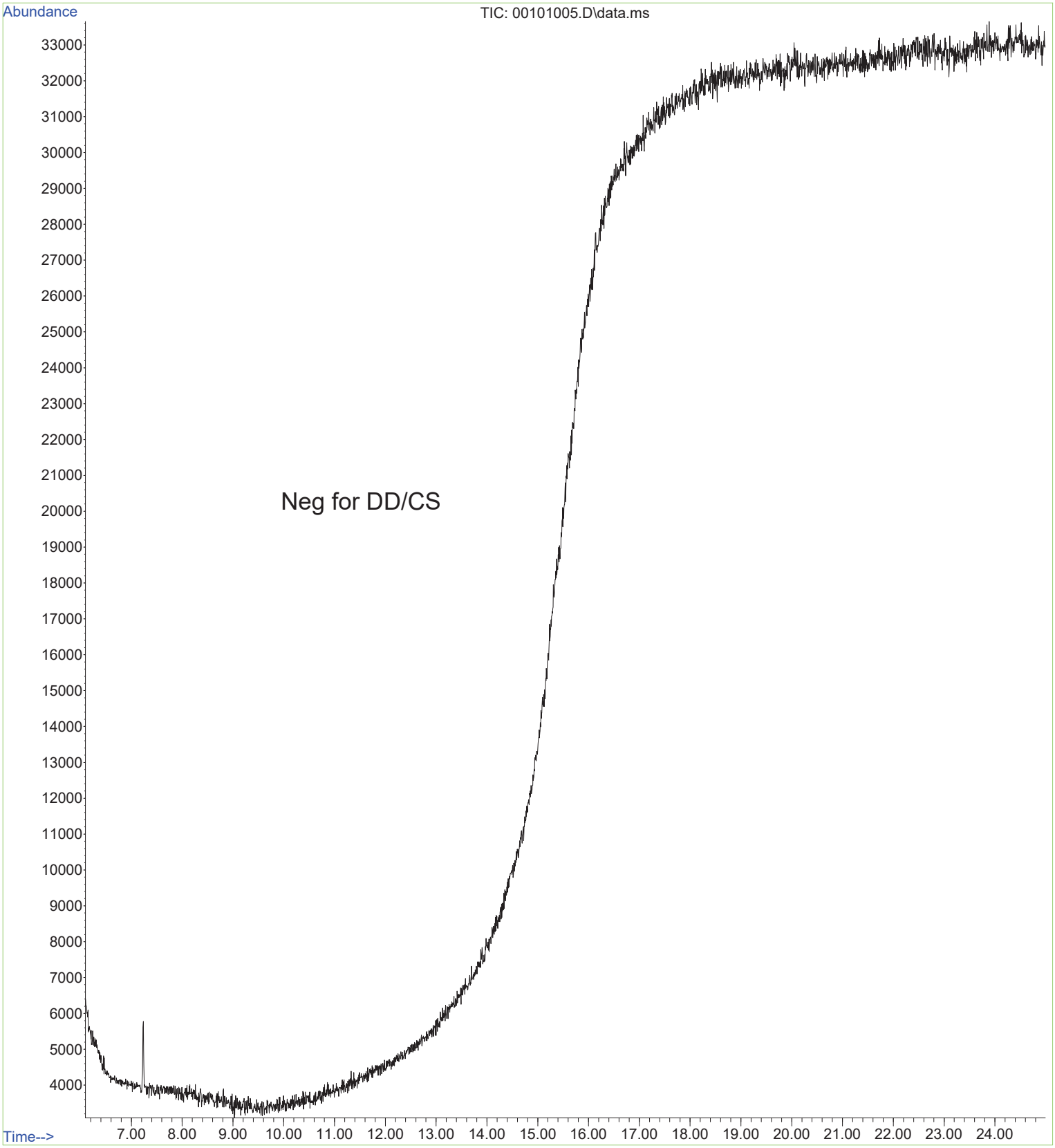




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Acquired : 16 Jul 2025 08:32 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



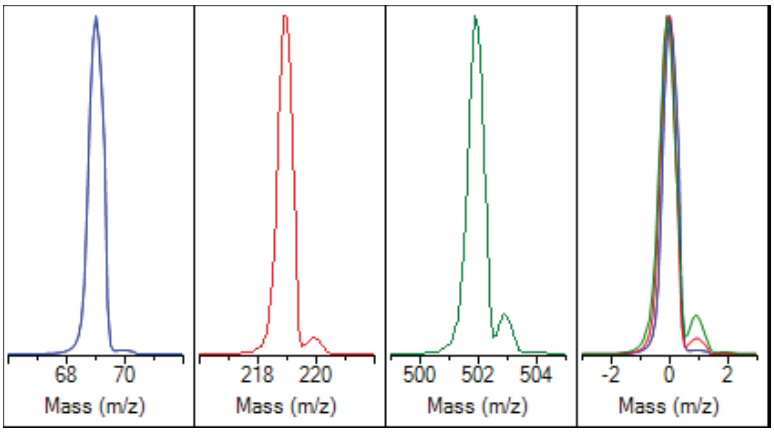
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Acquired : 16 Jul 2025 09:30 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 7/21/2025 6:51 AM (UTC-05:00) GCMS #4

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



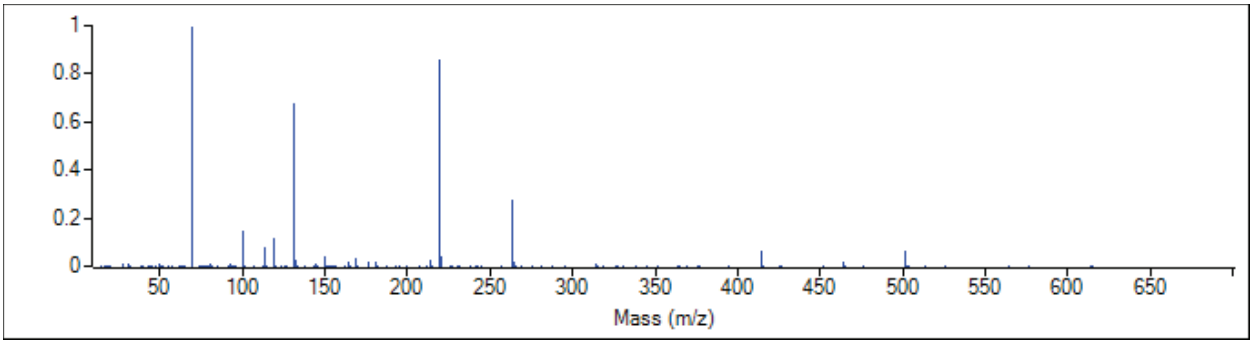
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	83
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2449
Repeller	14.97	Amu Offset	136.63
Ion Focus	149.6	Width219	0.000
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	17.18	HED Enable	On
Ion Body	5.00	EM Volts	1931.9
Post Extractor 1	14	Extractor Lens	13.50
Post Extractor 2	34	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	514,999	100.0%	0.60
218.90	436,080	84.7%	0.61
501.90	32,074	6.2%	0.65

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.70e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	136	69.00	481,280	1,801,252



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	481,280	100.0%	70.00	5,813	1.2%
219.00	219.00	413,504	85.9%	220.00	19,200	4.6%
502.00	502.00	32,576	6.8%	503.00	3,307	10.2%

Air/Water Check: H20 ~0.2% N2 ~1.2% O2 ~0.4% CO2 ~0.1% N2/H20 ~507.9%

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 10926.286

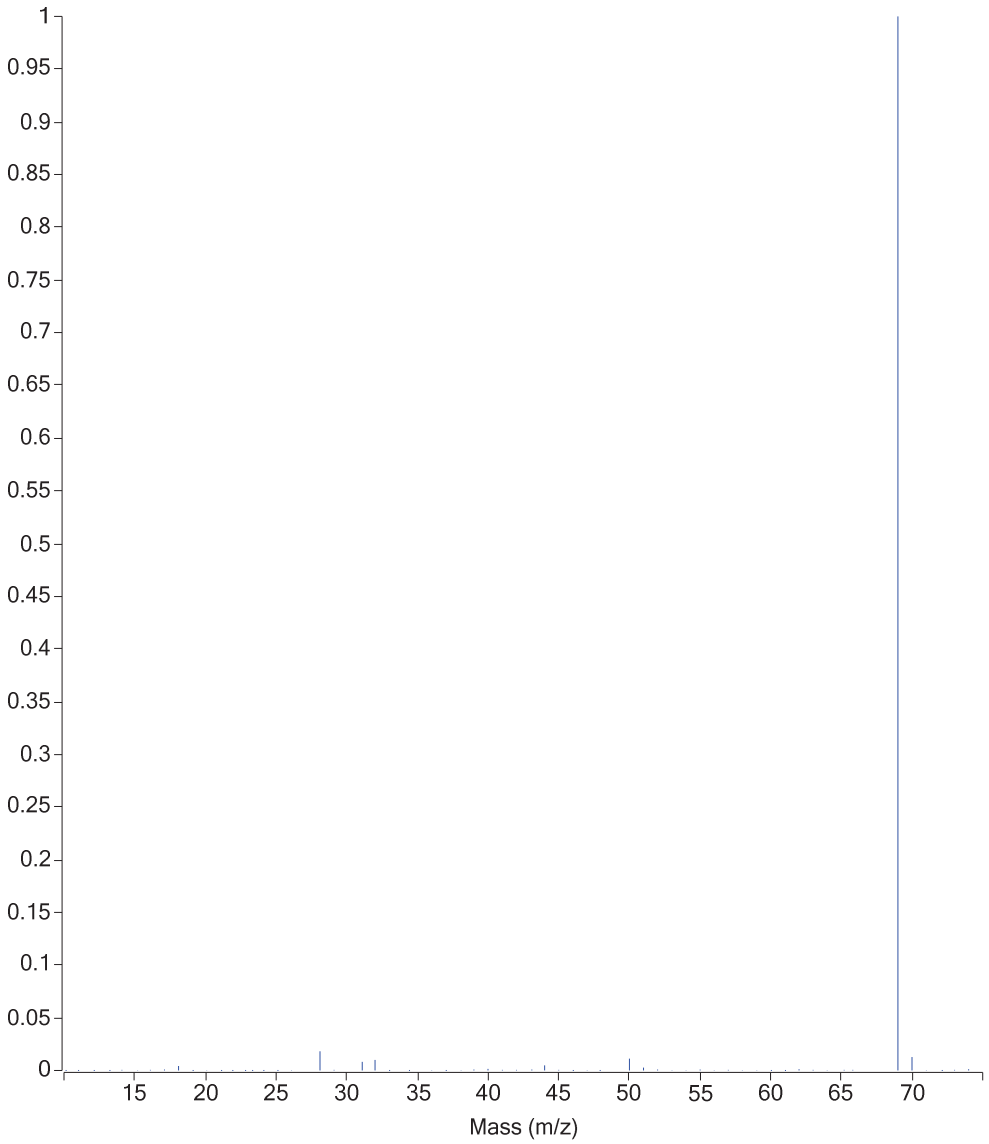
Repeller maximum 35 volts using ion 219; Gain Factor 0.1093

Mass Gain Values(Scan Speed): 94(3) 93(2) 104(1) 115(0) 167(FS1) 166(FS2) 166(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.6	136.6	136.6	136.6	136.6	136.6	136.6
Entrance Lens Offset	17.2	17.2	17.2	17.2	17.2	17.2	17.2

597x Air and Water Check

Instrument: GCMS #4
Mon Jul 21 06:37:33 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.43	Water%	(counts=3711)
28/69 =	1.81	Nitrogen%	(counts=15439)
32/69 =	1.01	Oxygen%	(counts=8633)
44/69 =	0.47	Carbon Dioxide%	(counts=4013)
28/18 =	416.03	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.43E-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	502.01	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%)	1.21	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.60	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.44	OK
Ratio of 219 to 69 should be > 40% and is	84.01	OK
Ratio of 502 to 69 should be > 2.4% and is	5.94	OK
Mass 69 Precursor (<= 3%)	0.96	OK
Mass 219 Precursor (<= 6%)	2.96	OK
Mass 502 Precursor (<= 12%)	6.18	OK

597x Air and Water Check
Mon Jul 21 06:56:25 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%)	0.22	OK
Ratio of 28 to 69 (<10%)	1.17	OK
Electron Multiplier Voltage	1932	OK

Tune portion of System Verification passed.

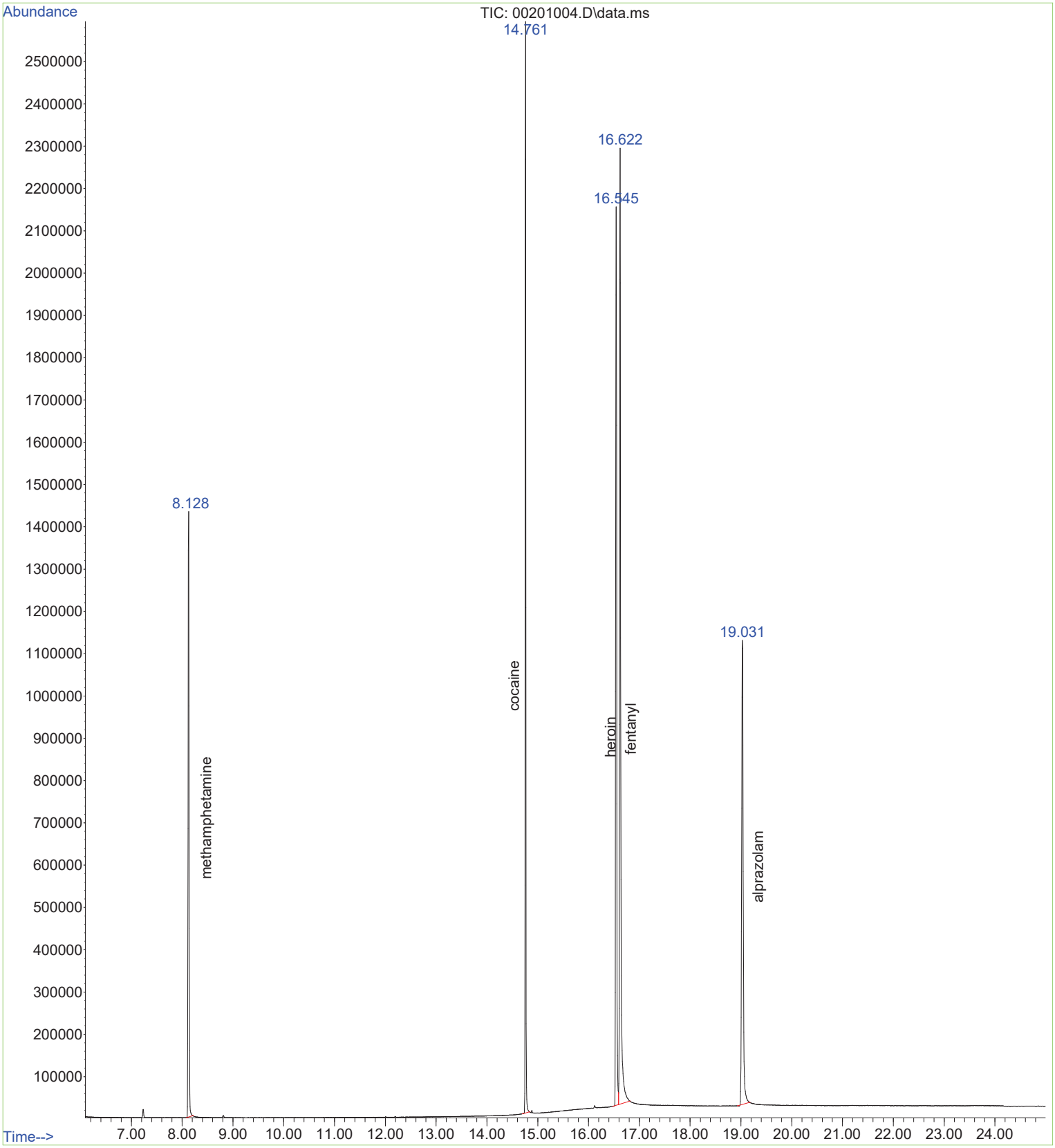
BCCL GC/MS #4
Retention Times for the Week of:

07/21/2025 - 07/27/2025

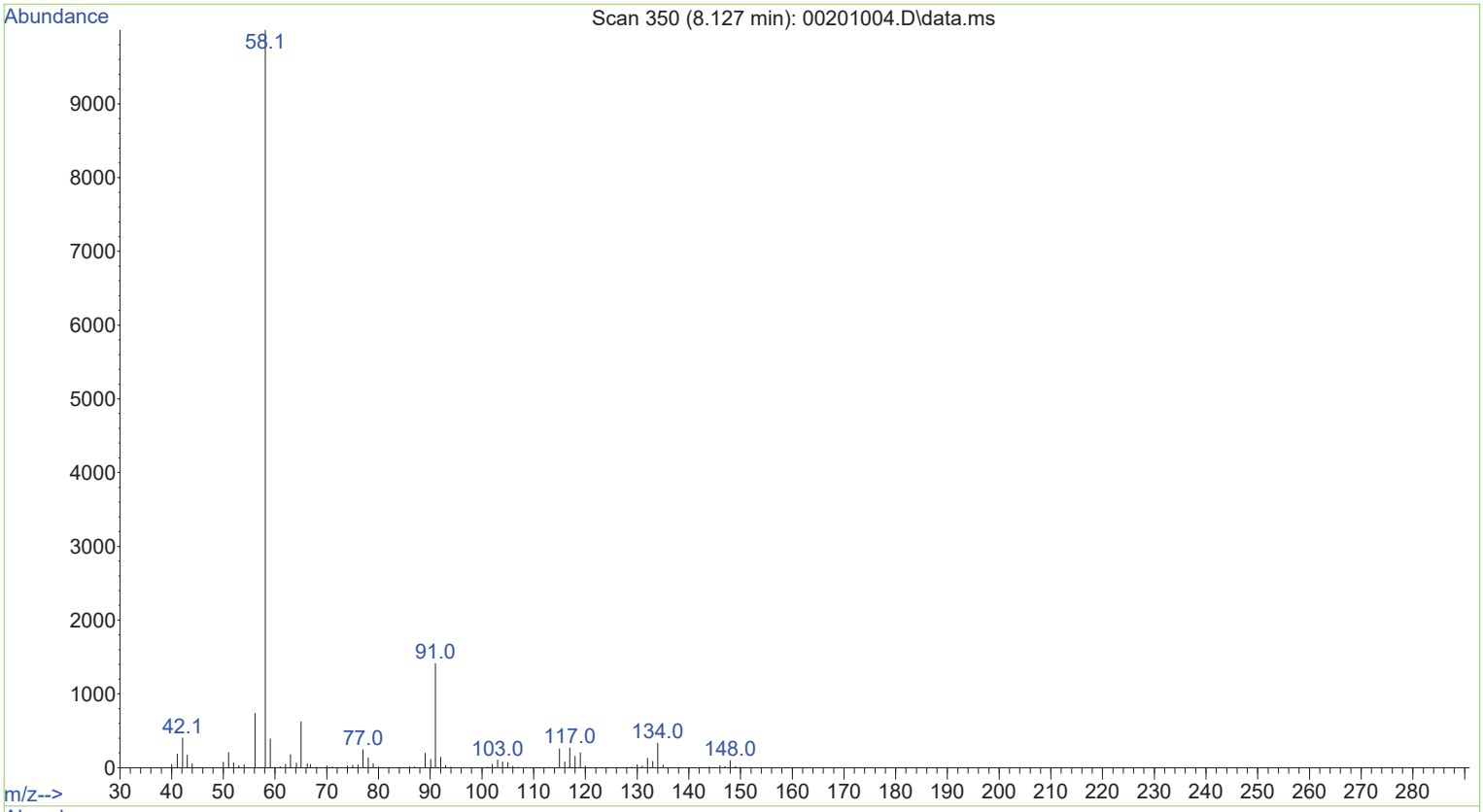
[X] **Tune: KB 07/21/2025 - HES Autotune**

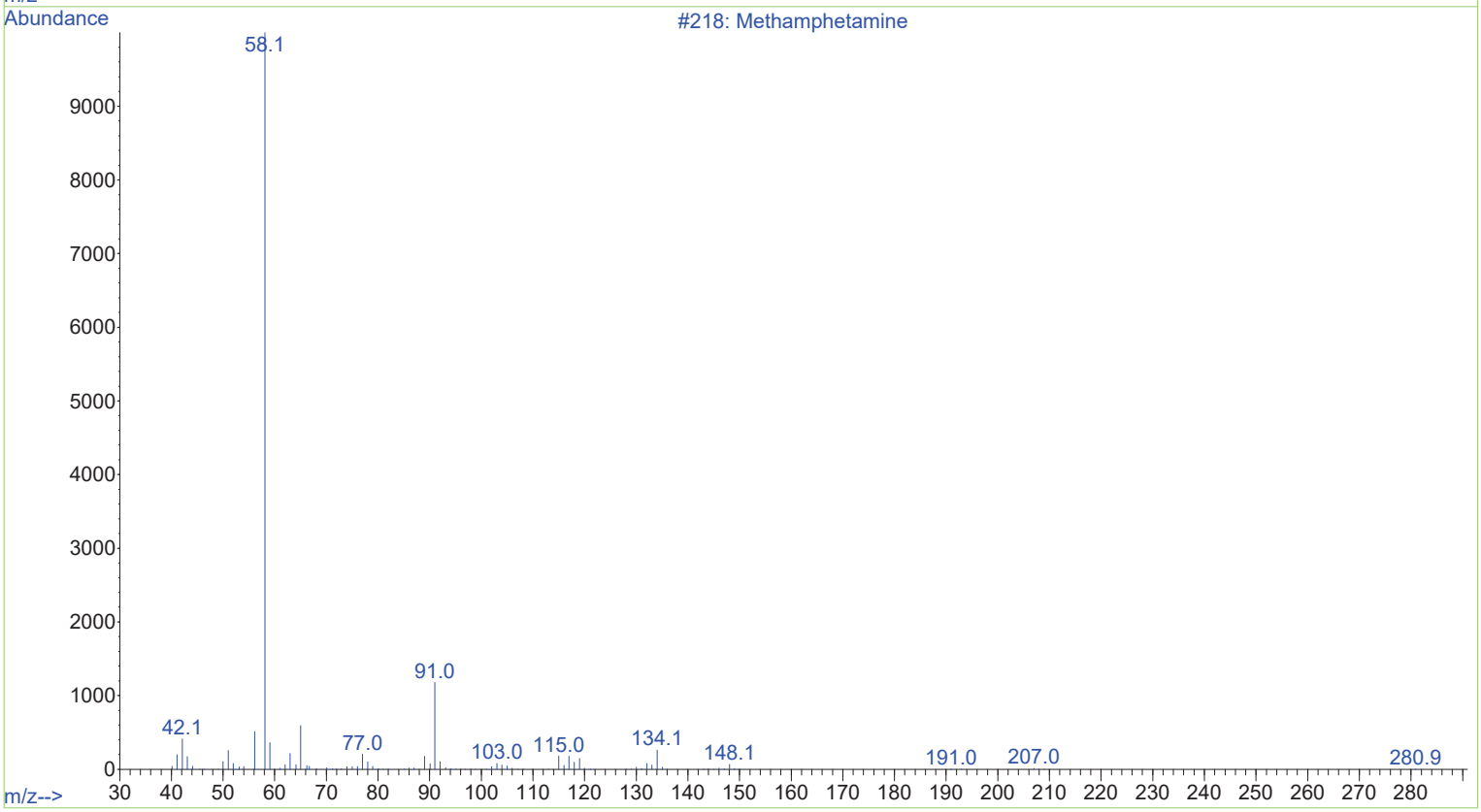
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.128	8.046	8.209
Cocaine	R-24-060	DrugTest35MS	14.761	14.613	14.908
Heroin	R-24-060	DrugTest35MS	16.545	16.379	16.710
Fentanyl	R-24-060	DrugTest35MS	16.622	16.455	16.788
Alprazolam	R-24-060	DrugTest35MS	19.031	18.840	19.221

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\072125\00201004.D
Acquired : 21 Jul 2025 08:25 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

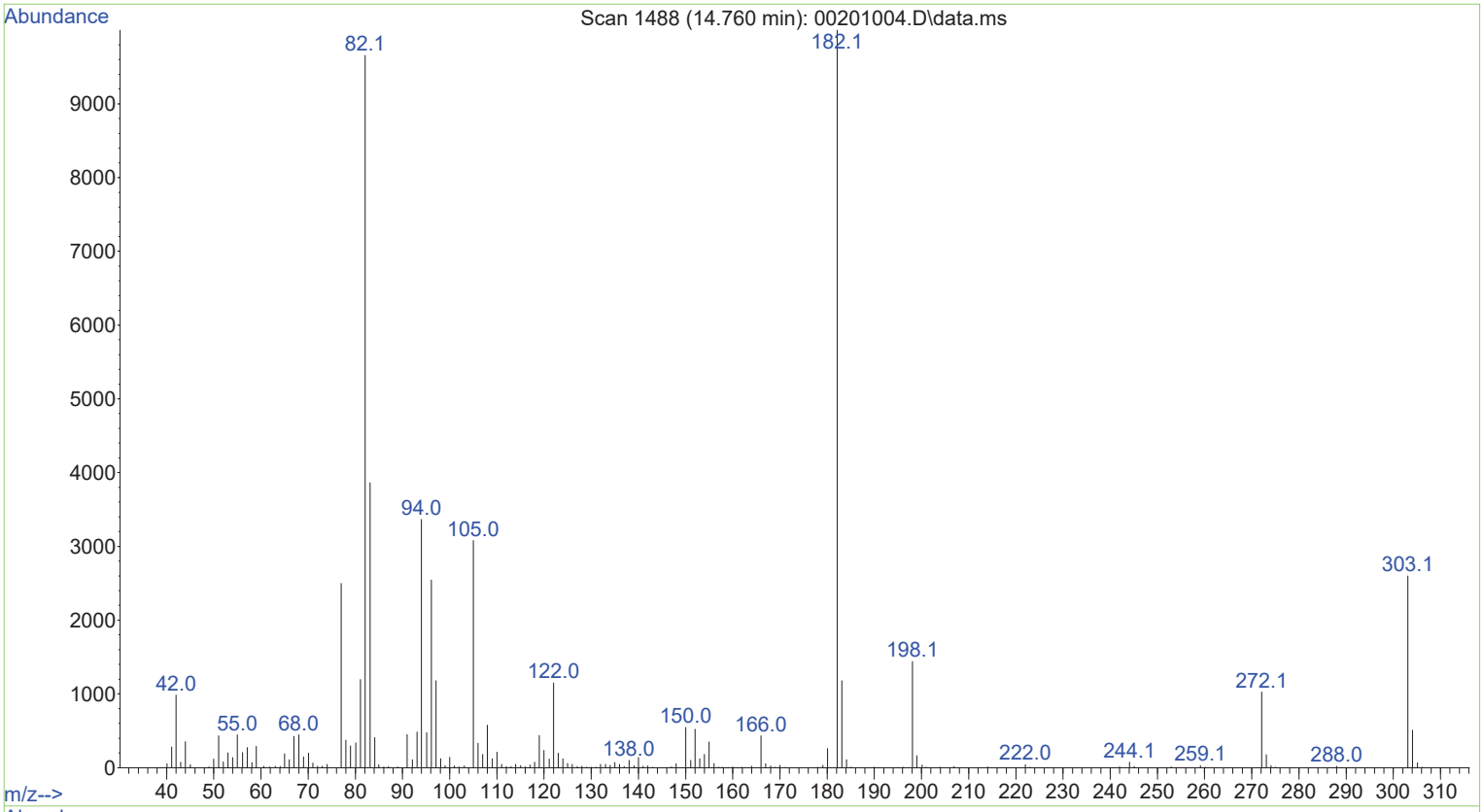


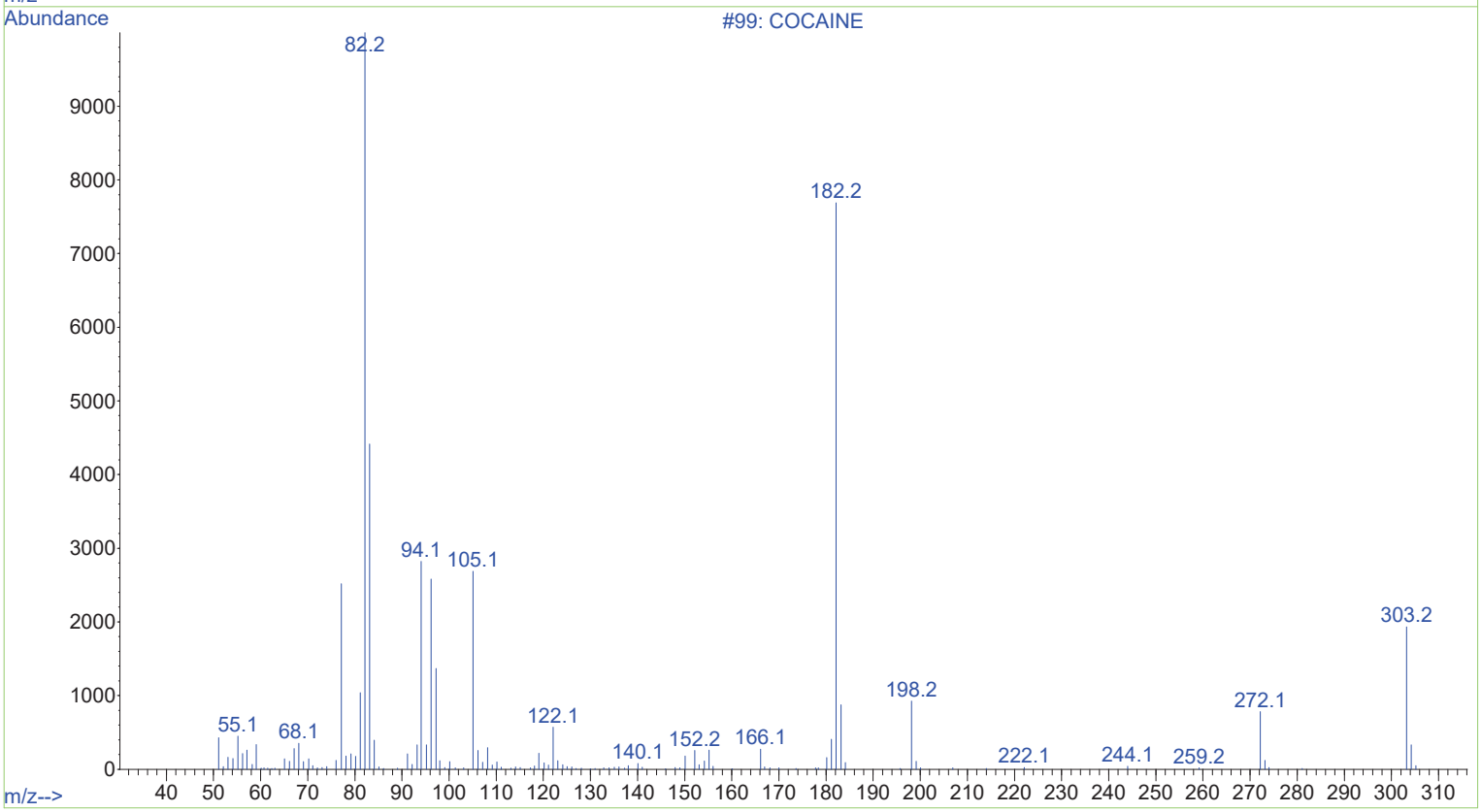
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Acquired : 21 Jul 2025 08:25 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



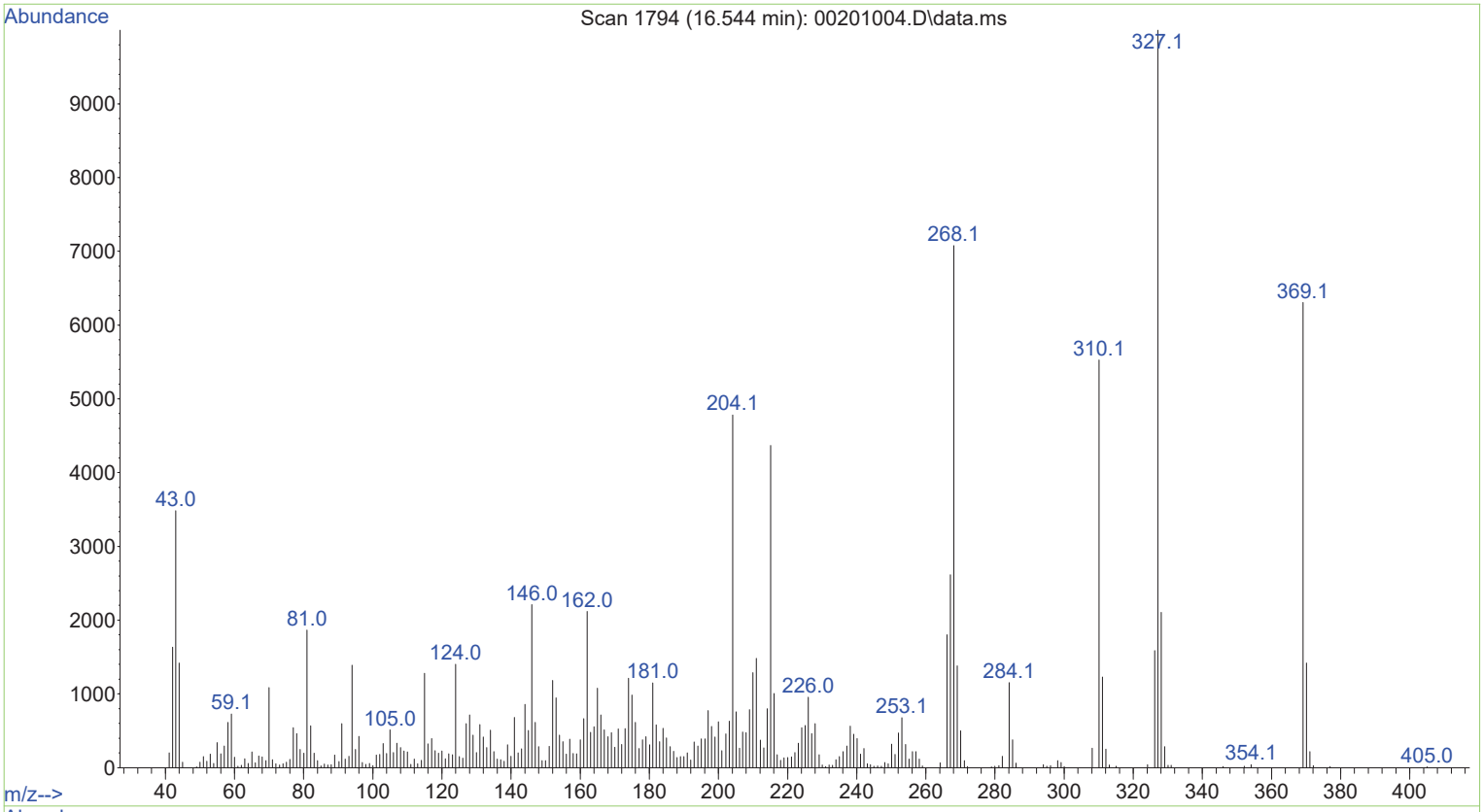


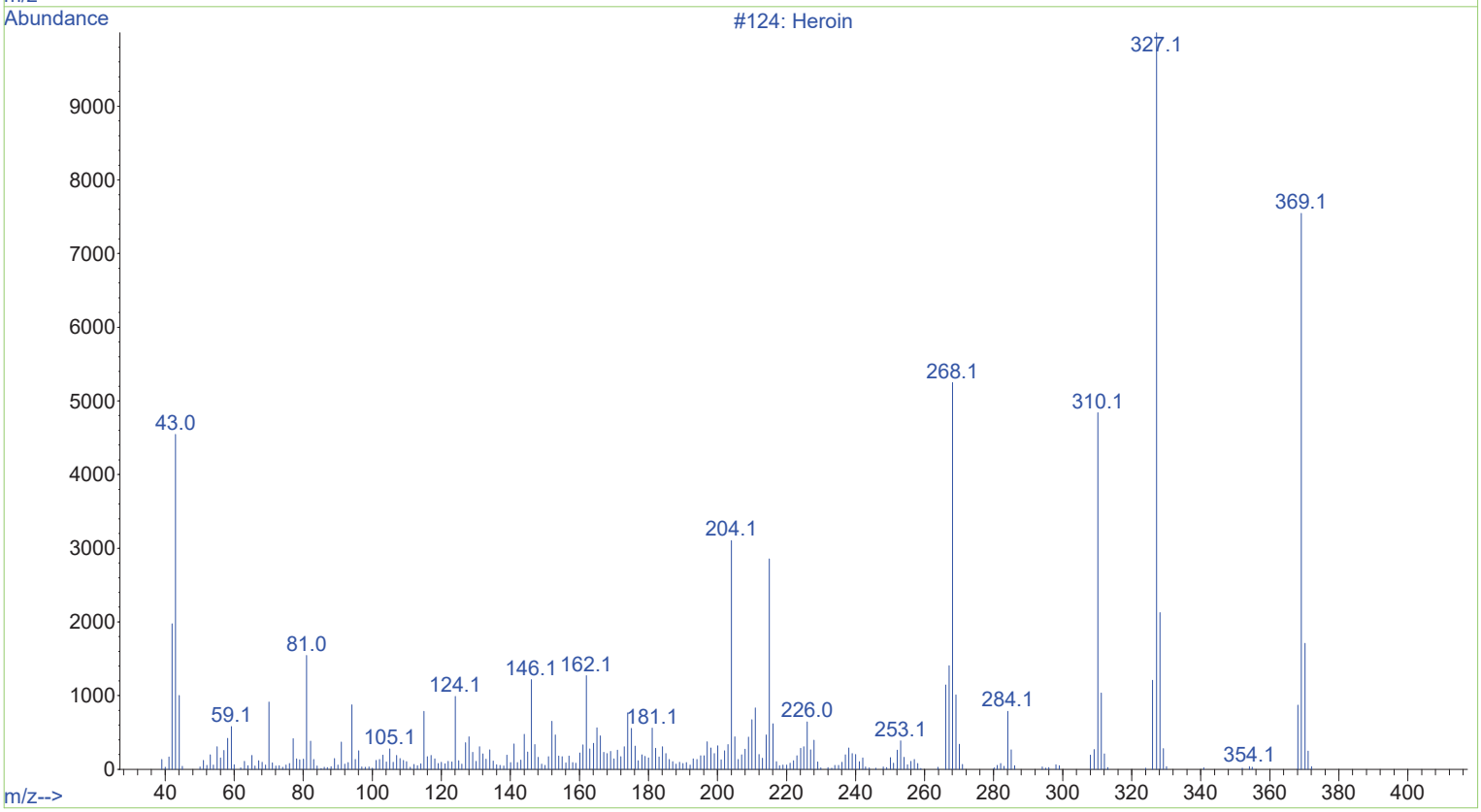
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... 2025 Data\072125\00201004.D
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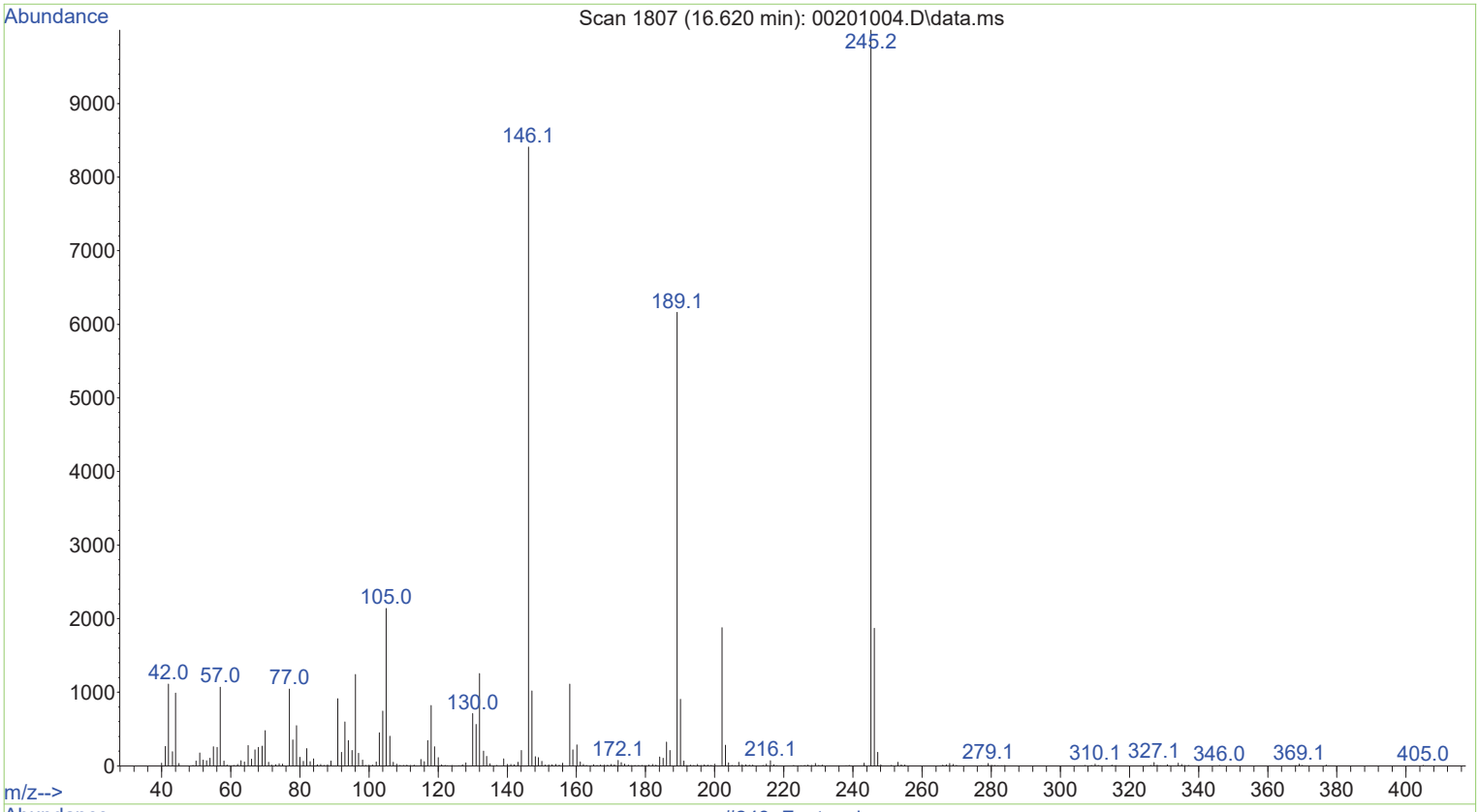


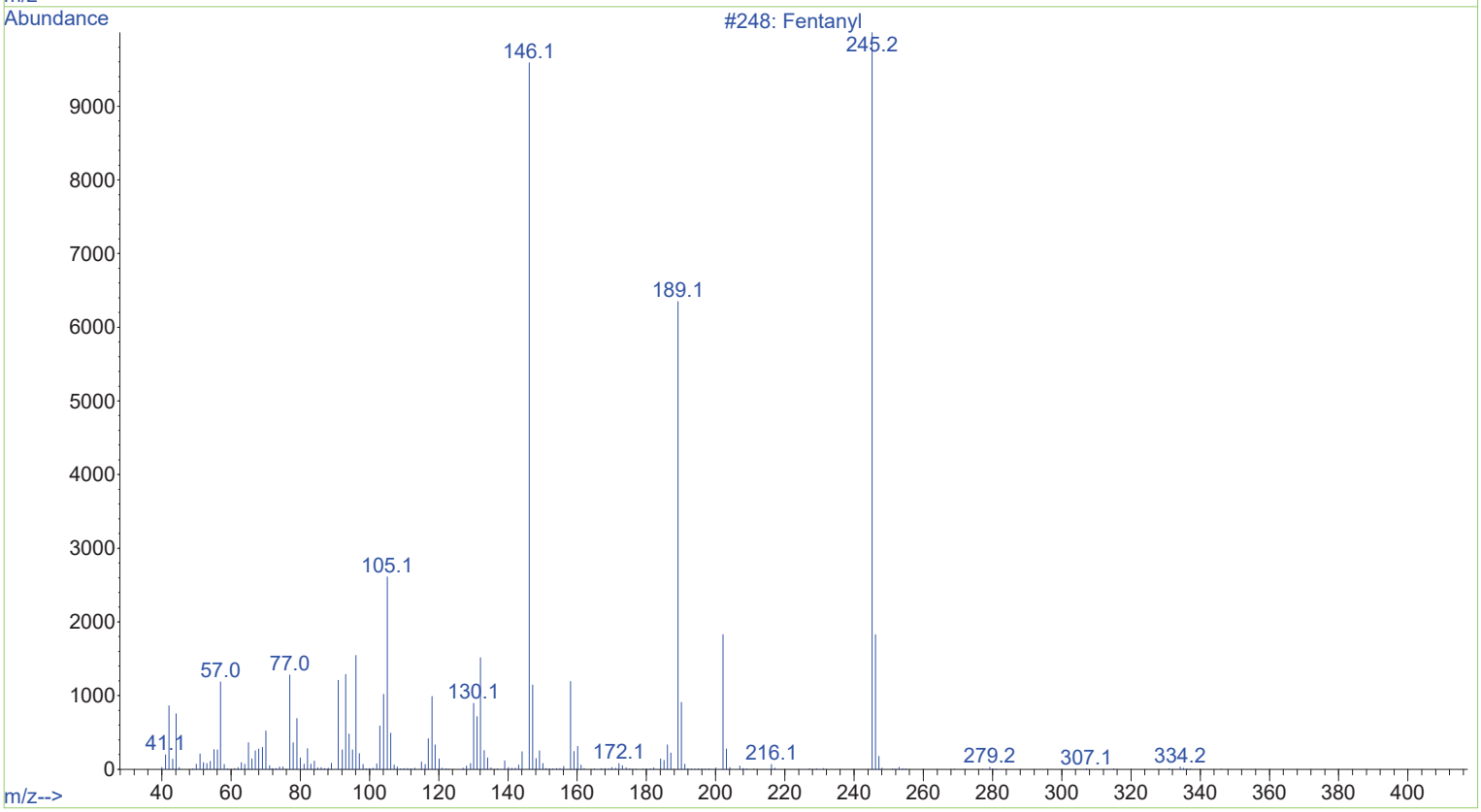
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Misc Info : in ACN 000002669
Vial Number: 2



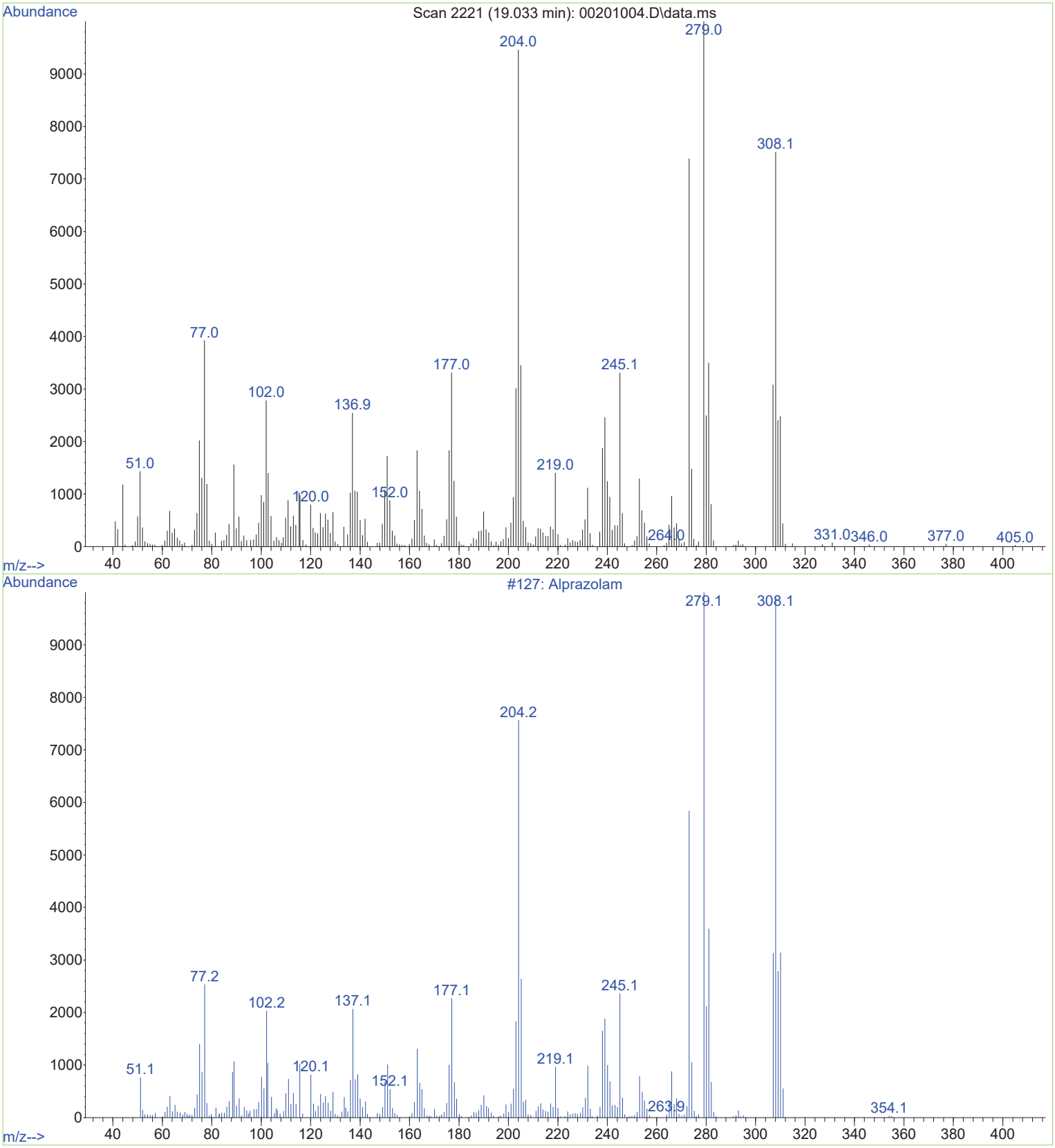


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Vial Number: 2

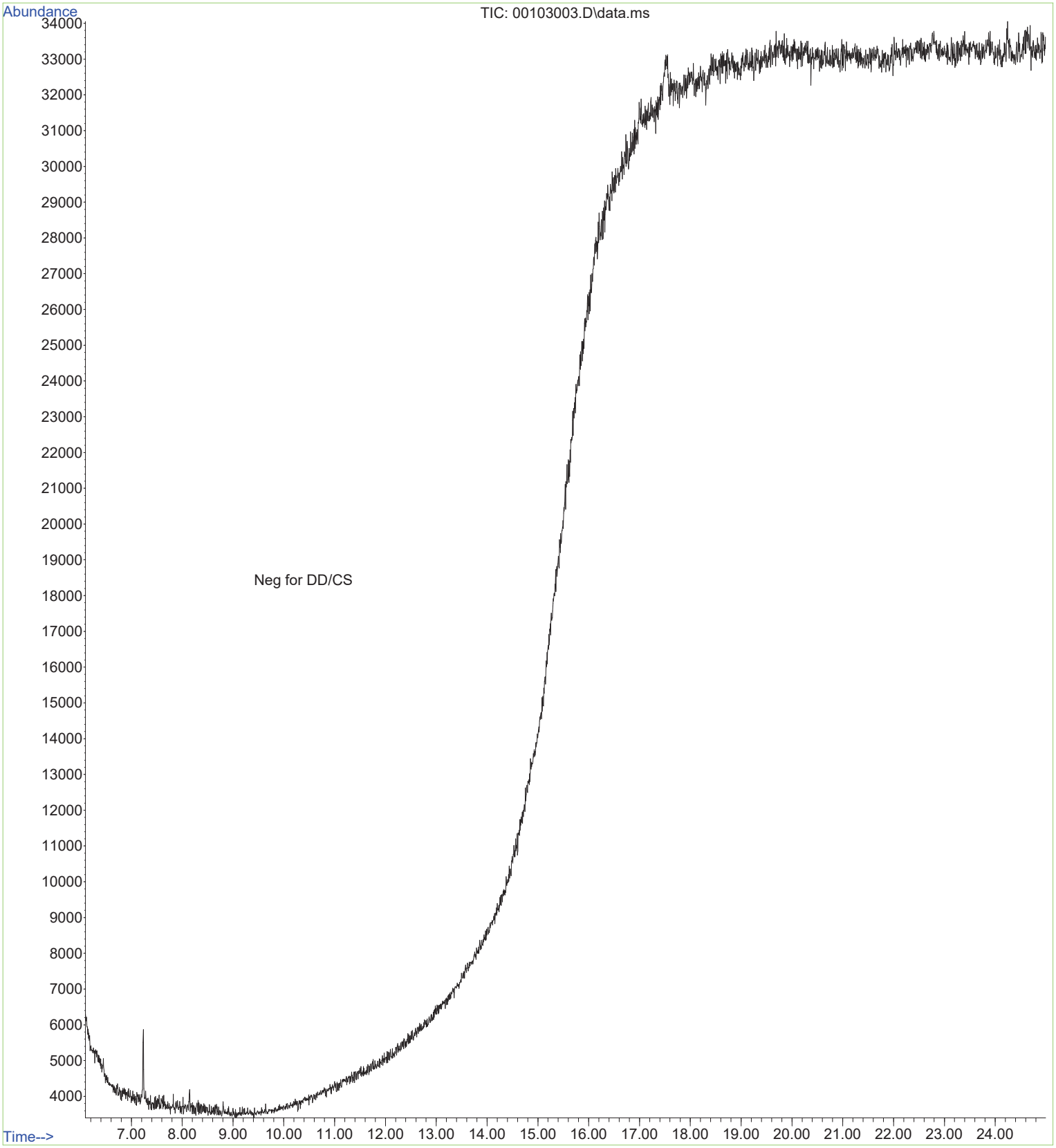




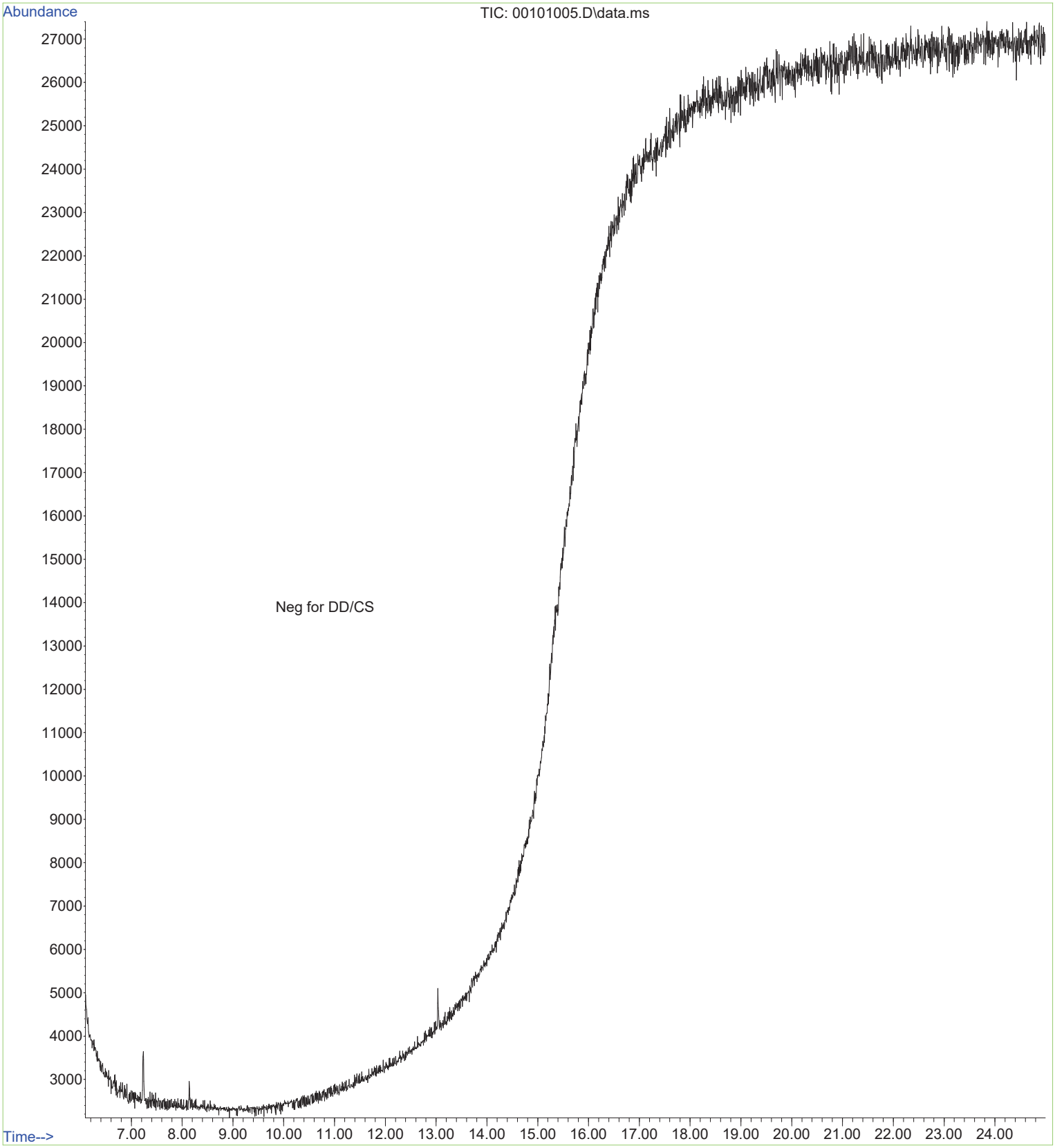
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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
...         2025 Data\072125\00201004.D
Acquired   : 21 Jul 2025  08:25     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
```



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\072125\00103003.D
Acquired : 21 Jul 2025 07:56 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: 1



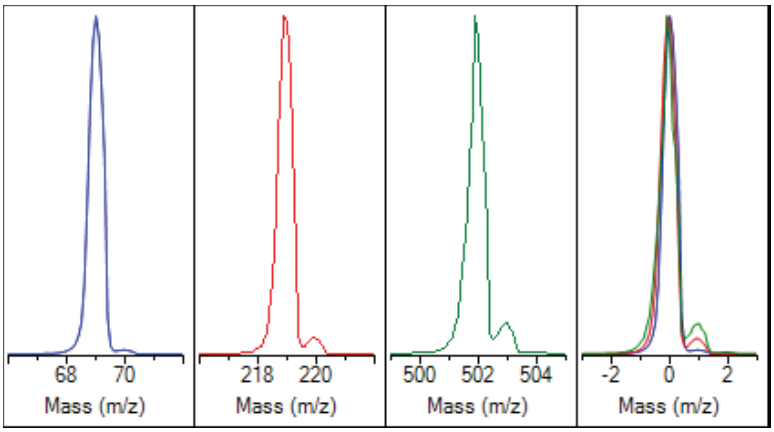
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... 2025 Data\072125\00101005.D
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Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 7/28/2025 7:04 AM (UTC-05:00) GCMS #4

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



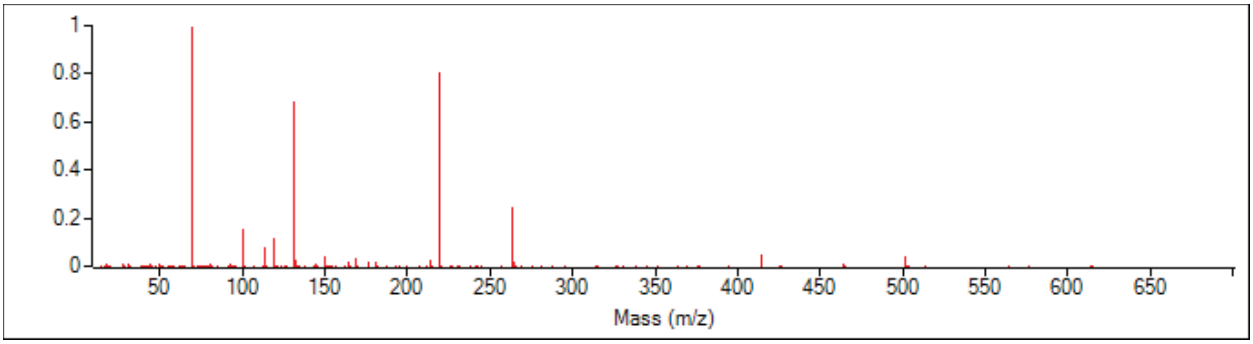
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	78
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2456
Repeller	12.96	Amu Offset	137.38
Ion Focus	149.6	Width219	0.000
Entrance Lens	15.1	DC Polarity	Pos
Ent Lens Offset	16.68	HED Enable	On
Ion Body	5.50	EM Volts	1943.1
Post Extractor 1	13	Extractor Lens	13.20
Post Extractor 2	29	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	509,941	100.0%	0.60
218.90	409,685	80.3%	0.60
501.90	23,276	4.6%	0.59

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	139	69.00	478,528	1,744,208



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	478,528	100.0%	70.00	5,793	1.2%
219.00	219.00	387,392	81.0%	219.90	18,048	4.7%
502.00	502.00	21,752	4.5%	503.00	2,207	10.1%

Air/Water Check: H20 ~1.4% N2 ~1.1% O2 ~0.3% CO2 ~0.7% N2/H20 ~75.5%

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 14206.467

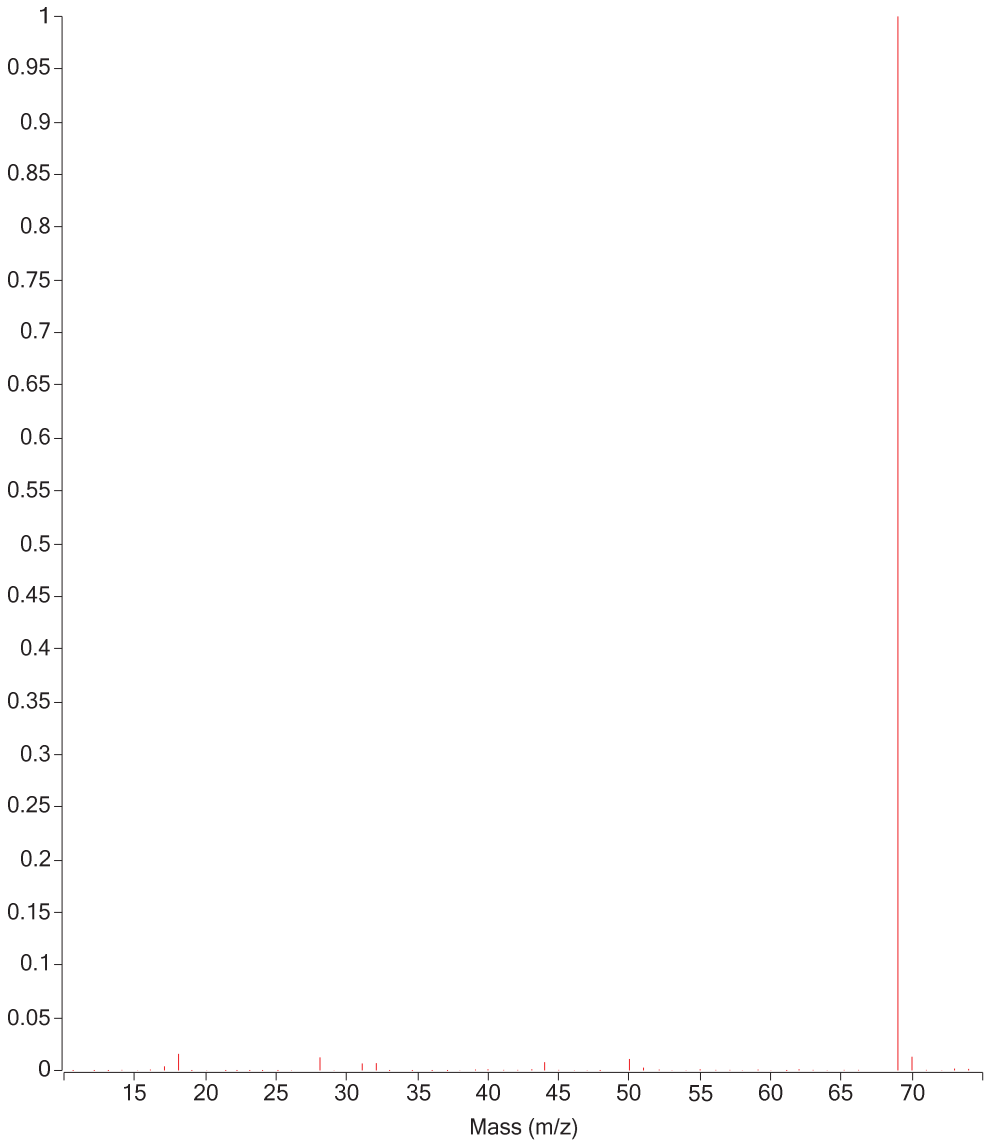
Repeller maximum 35 volts using ion 219; Gain Factor 0.1421

Mass Gain Values(Scan Speed): 85(3) 88(2) 95(1) 114(0) 166(FS1) 166(FS2) 144(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.4	137.4	137.4	137.4	137.4	137.4	137.4
Entrance Lens Offset	16.7	16.7	16.7	16.7	16.7	16.7	16.7

597x Air and Water Check

Instrument: GCMS #4
Mon Jul 28 06:54:55 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	1.59	Water%	(counts=13180)
28/69 =	1.25	Nitrogen%	(counts=10341)
32/69 =	0.71	Oxygen%	(counts=5910)
44/69 =	0.78	Carbon Dioxide%	(counts=6433)
28/18 =	78.46	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.46E-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	501.99	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.94	OK
Position of isotope mass 503	502.99	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.22	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.63	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.38	OK
Ratio of 219 to 69 should be > 40% and is	81.91	OK
Ratio of 502 to 69 should be > 2.4% and is	4.61	OK
Mass 69 Precursor (<= 3%)	0.95	OK
Mass 219 Precursor (<= 6%)	2.43	OK
Mass 502 Precursor (<= 12%)	7.08	OK

597x Air and Water Check
Mon Jul 28 07:09:51 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%)	1.07	OK
Ratio of 28 to 69 (<10%)	1.12	OK
Electron Multiplier Voltage	1943	OK

Tune portion of System Verification passed.

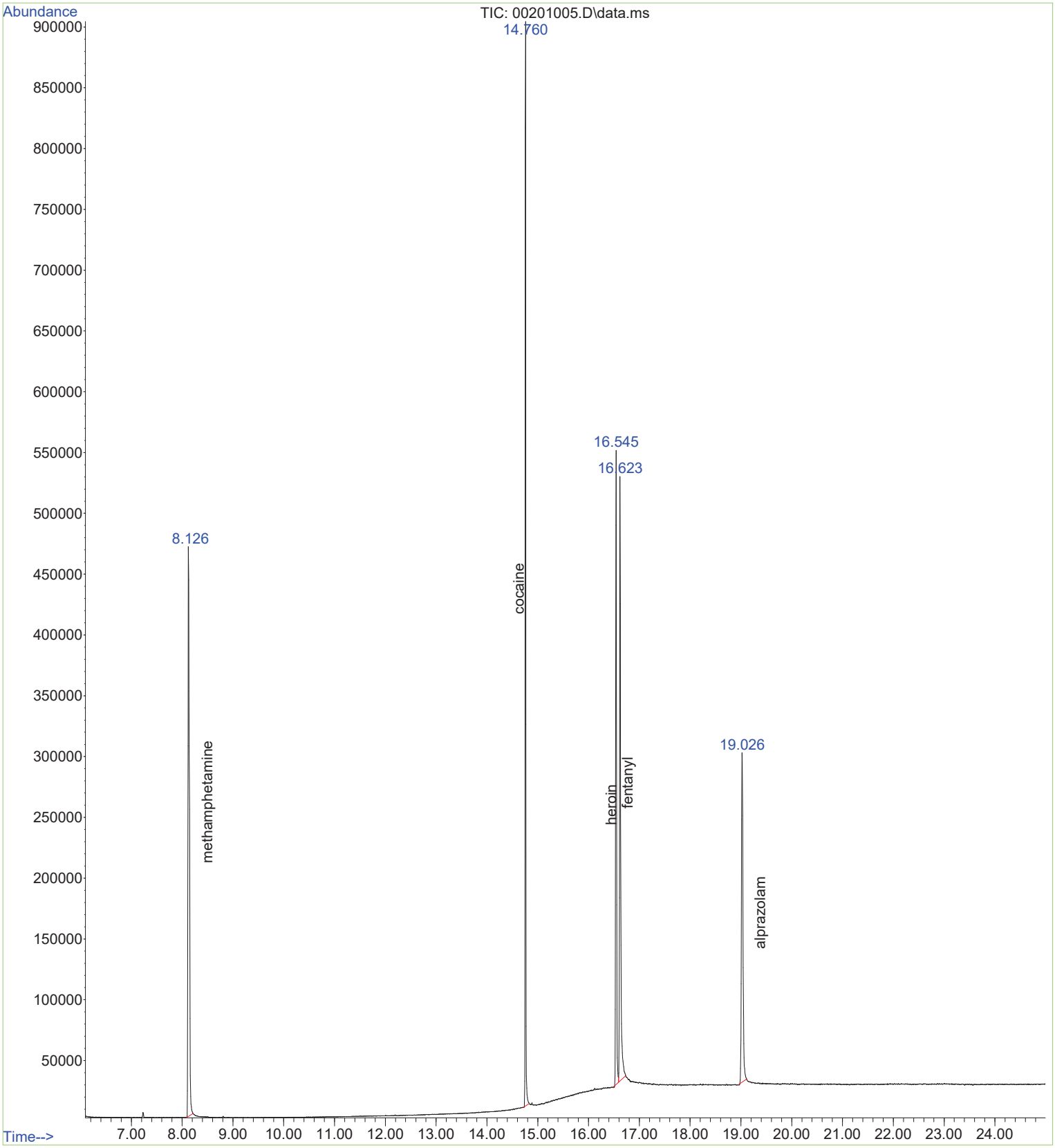
BCCL GC/MS #4
Retention Times for the Week of:

07/28/2025 - 08/03/2025

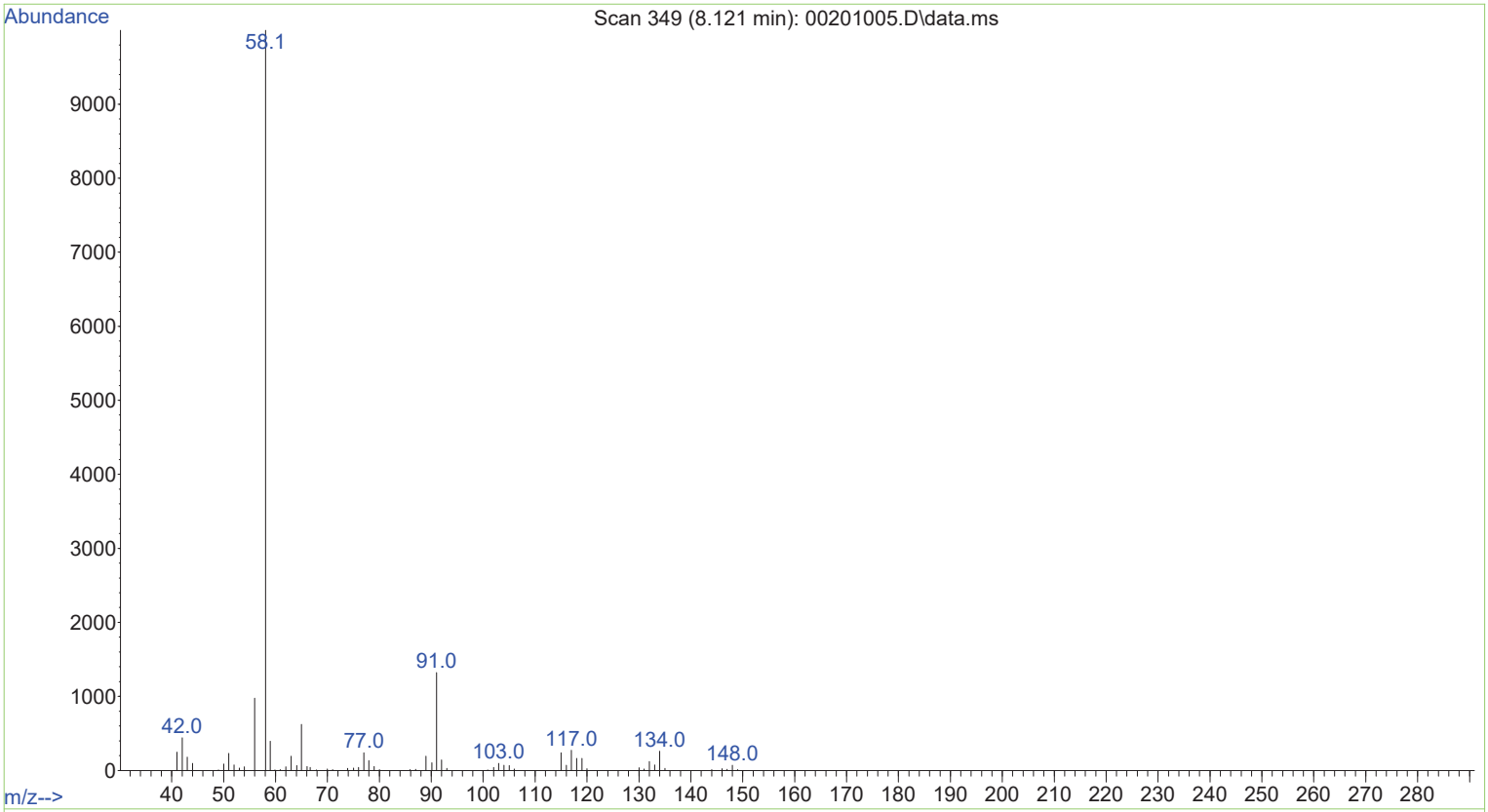
[X] **Tune: KB 07/28/2025 - HES Autotune**

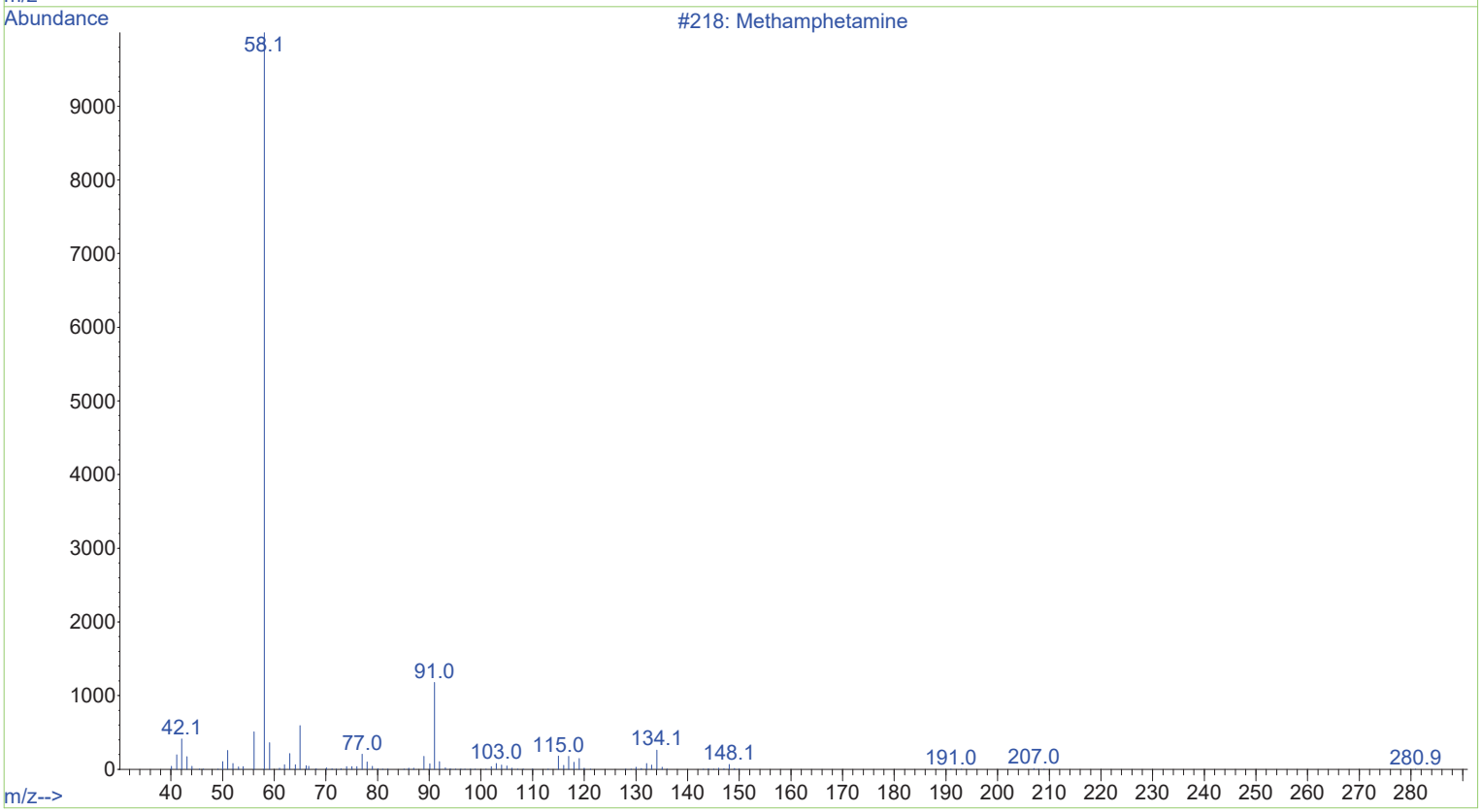
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.126	8.044	8.207
Cocaine	R-24-060	DrugTest35MS	14.760	14.612	14.907
Heroin	R-24-060	DrugTest35MS	16.545	16.379	16.710
Fentanyl	R-24-060	DrugTest35MS	16.623	16.456	16.789
Alprazolam	R-24-060	DrugTest35MS	19.026	18.835	19.216

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\072825\00201005.D
Acquired : 28 Jul 2025 08:58 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

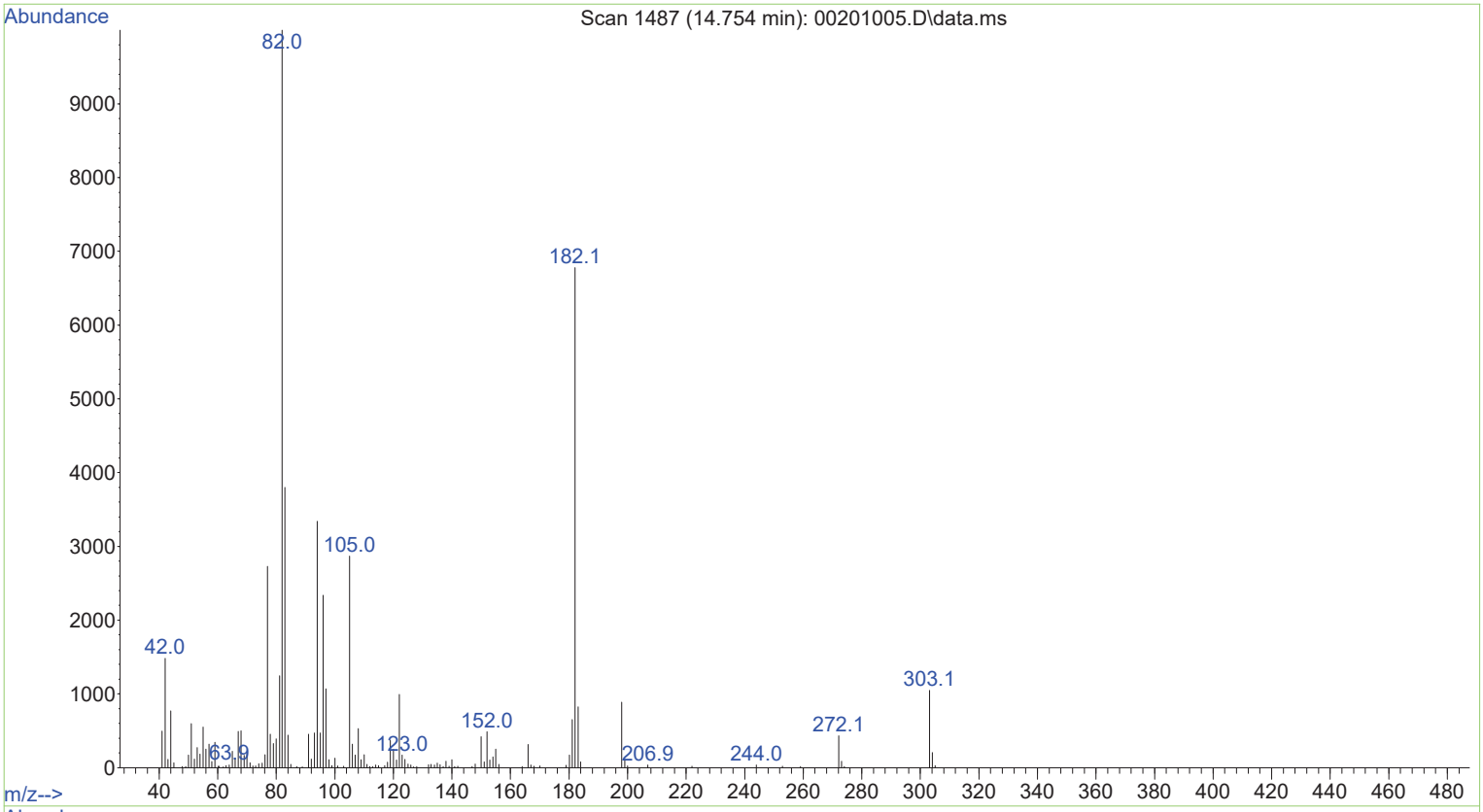


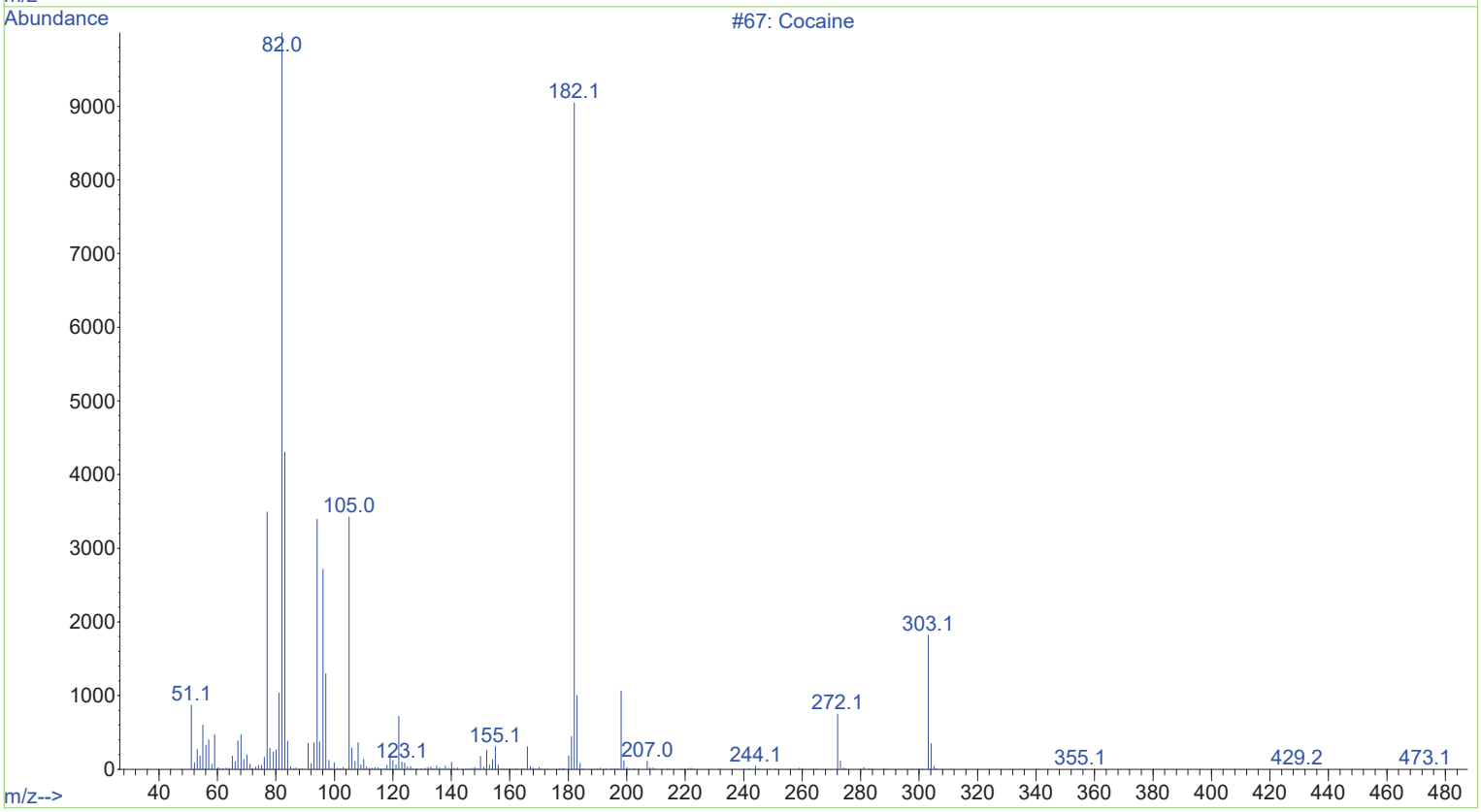
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Acquired   : 28 Jul 2025  08:58     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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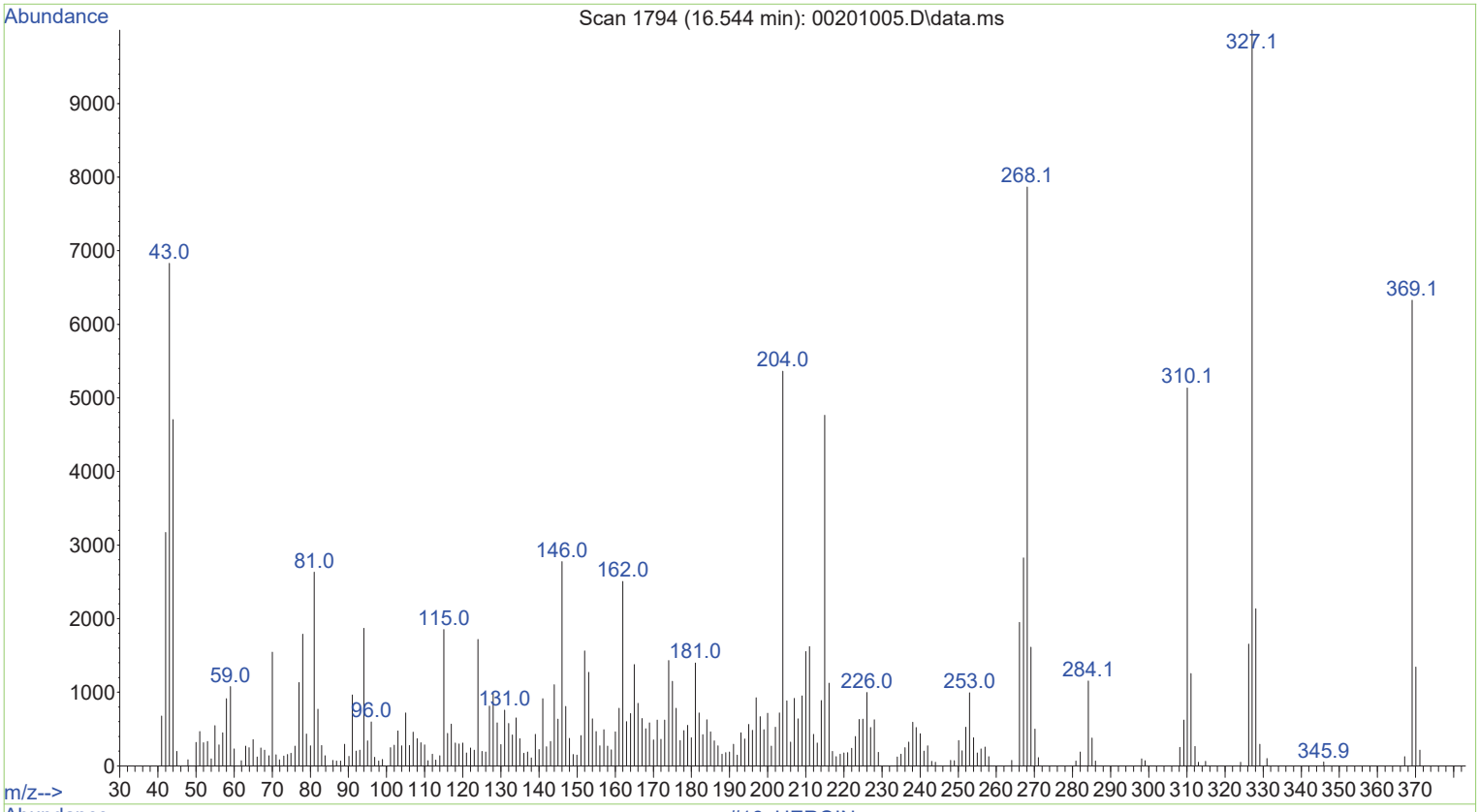


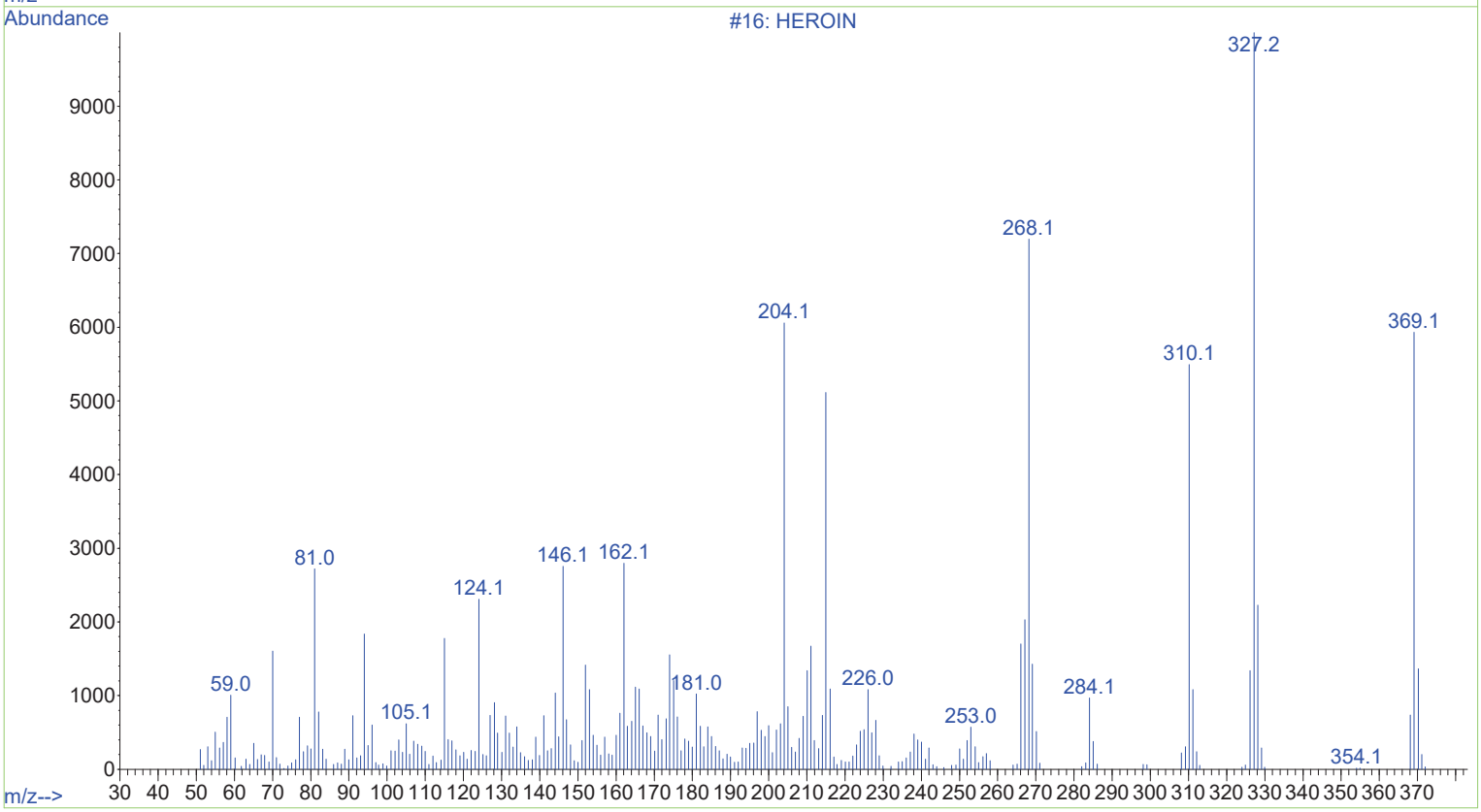
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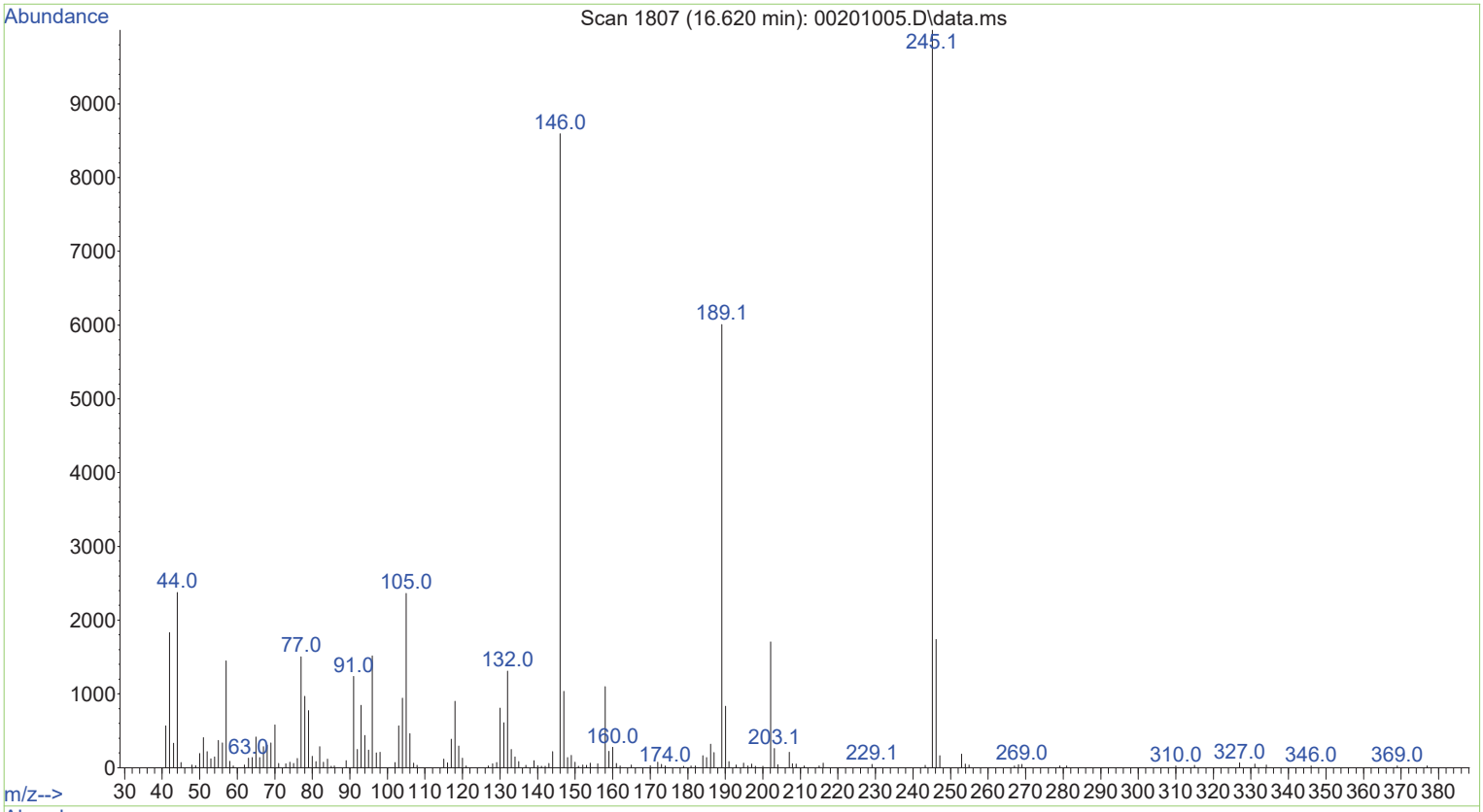


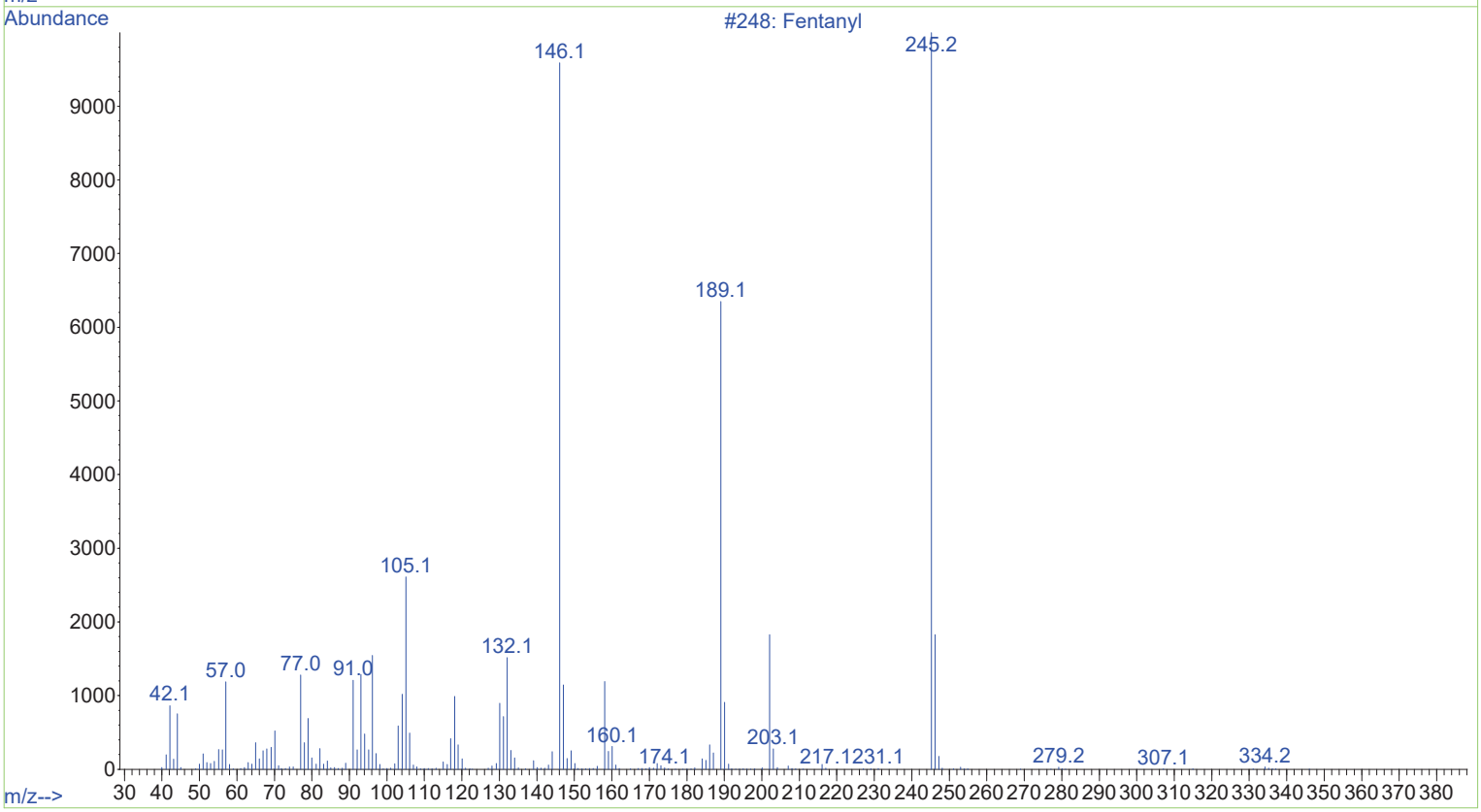
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Misc Info  : in ACN                                         000002669
Vial Number: 2
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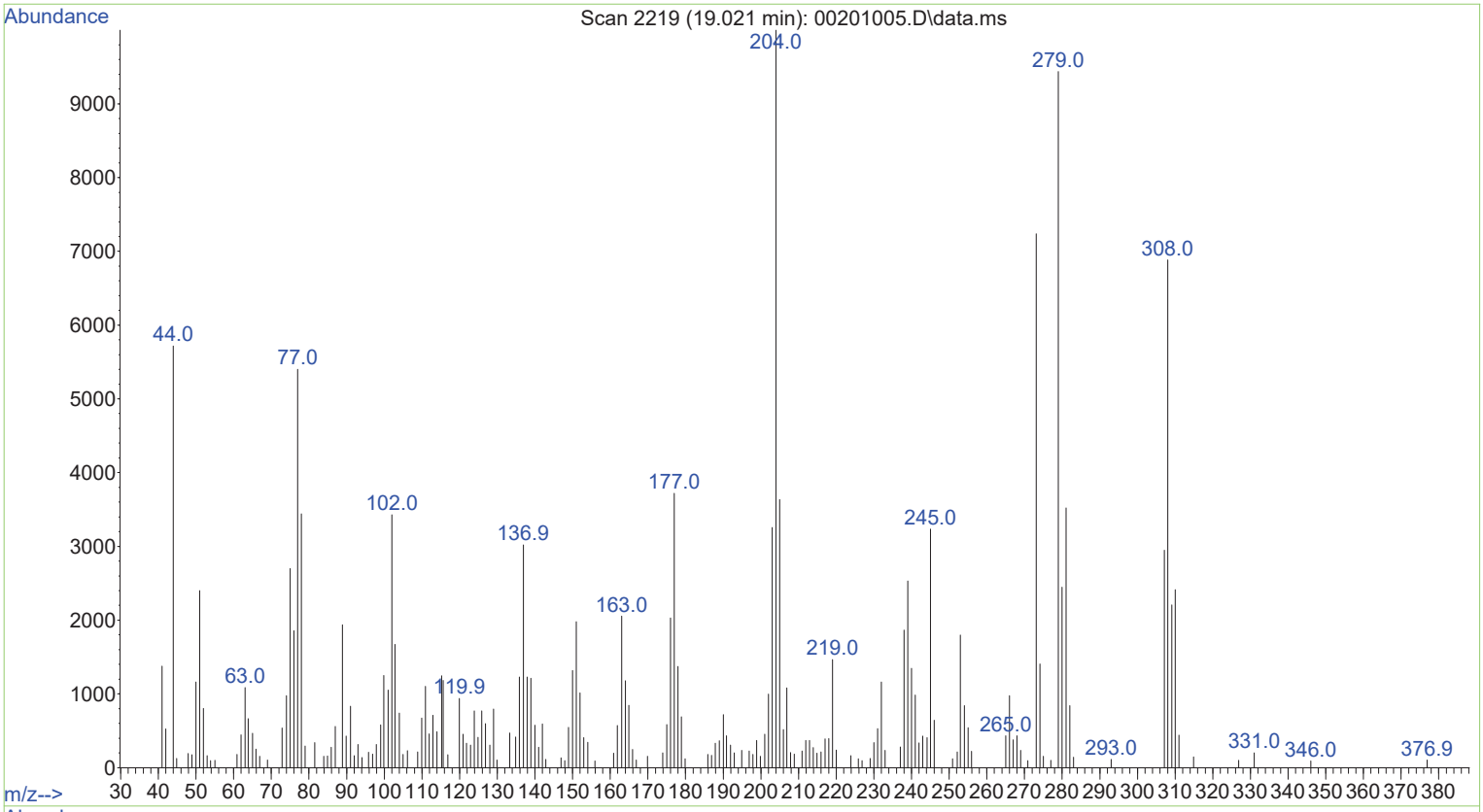


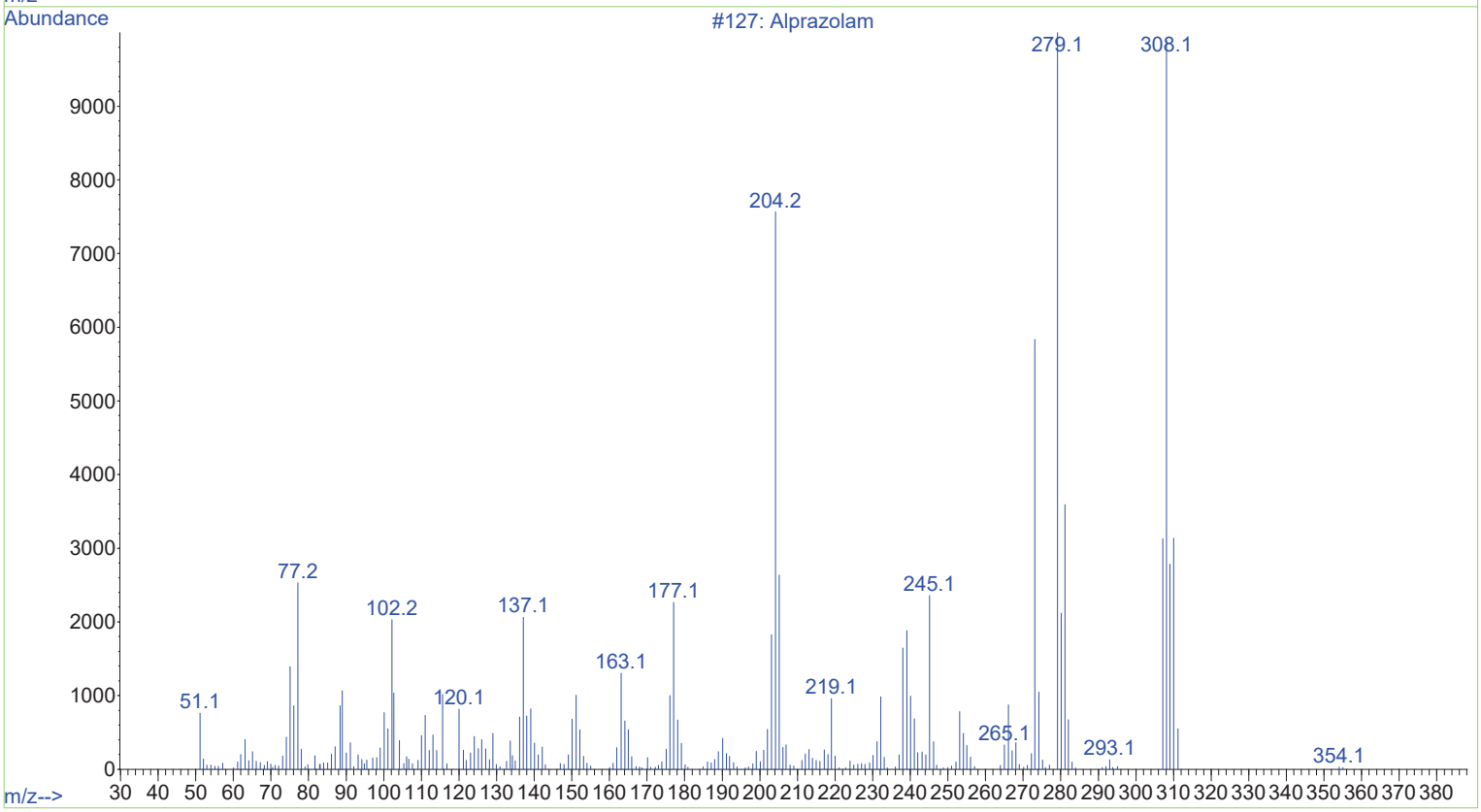
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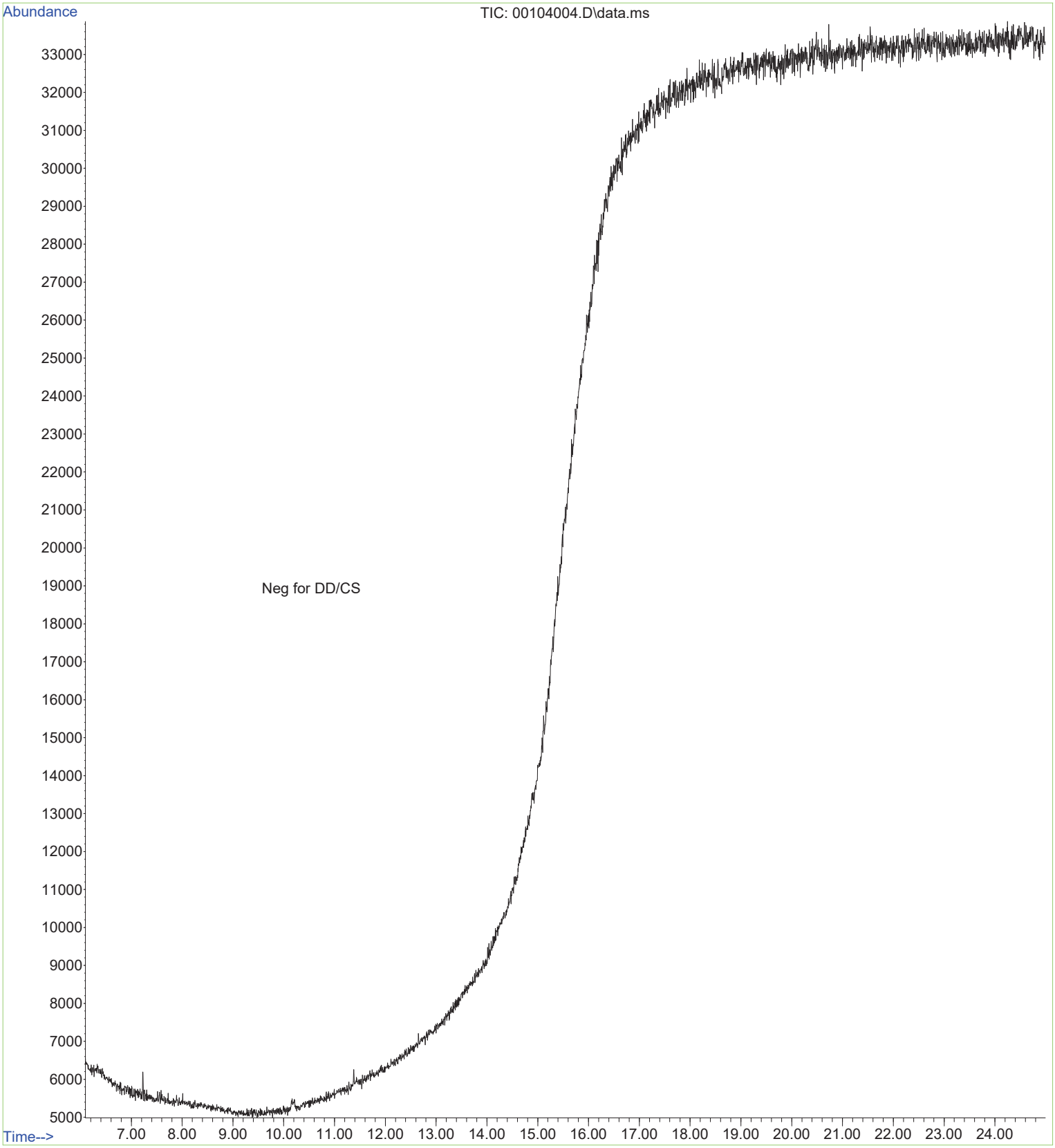


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Acquired : 28 Jul 2025 08:58 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2





File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\072825\00104004.D
Acquired : 28 Jul 2025 08:29 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: 1



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\072825\00101006.D
Acquired : 28 Jul 2025 09:27 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

