Brazoria County Crime Lab

Seized Drugs Section

FTIR Maintenance Log

Instrument: FTIR **Month/Year:** August 2025

Entry Number	Date	Alignment	ValPro Qualification	Known Standard Verification	Maintenance/PM	Analyst/Technician	Comments	Initials
1	8/4/2025	✓	Pass	✓	Maintenance	Analyst	due to time constraints weekly check was performed on 8/5/2025	KB
2	8/11/2025	✓	Pass	✓	Maintenance	Analyst		DS
3	8/18/2025	✓	Pass	✓	Maintenance	Analyst		KB
4	8/25/2025	✓	Pass	✓	Maintenance	Analyst		DS

Signature: Kayla M. Baylor Digitally signed by Kayla M. Baylor Date: 2025.10.08 08:01:56 -05'00'

Date: 10/7/2025

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, August 4, 2025 6:55:35 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250804_065535.spg

Test description	High limit	Low limit	Measured	Result
CP Wavenumber accuracy				
Peak at 3027.0 (cm-1)	3032.0	3022.0	3025.5	Pass
Peak at 2851.0 (cm-1)	2856.0	2846.0	2849.3	Pass
Peak at 1601.0 (cm-1)	1602.0	1600.0	1601.0	Pass
Peak at 1028.0 (cm-1)	1029.0	1027.0	1028.3	Pass
Peak at 907.0 (cm-1)	908.0	906.0	906.6	Pass
CP Optical resolution				
Resolution 2870 - 2849.5 (%T)	100.00	18.00	37.00	Pass
Resolution 1589 - 1583 (%T)	100.00	12.00	24.00	Pass
CP Peak Resolution				
Peaks between 3120 and 2850 cm-1	7	7	7	Pass
JP Wavenumber accuracy				
Peak at 3060.0 (cm-1)	3061.5	3058.5	3059.5	Pass
Peak at 2849.5 (cm-1)	2851.0	2848.0	2849.3	Pass
Peak at 1942.9 (cm-1)	1944.4	1941.4	1942.4	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1582.9	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass
JP Optical resolution				
Resolution 2870 - 2849.5 (%T)	100.00	18.00	37.00	Pass
Resolution 1589 - 1583 (%T)	100.00	12.00	24.00	Pass
JP Repeatability				
Peak at 3027.1 (cm-1)	5.00	-5.00	0.00	Pass
Peak at 1028.3 (cm-1)	1.00	-1.00	0.00	Pass
Intensity at 2849.5 (%T)	0.50	-0.50	0.01	Pass
Intensity at 1028.3 (%T)	0.50	-0.50	0.02	Pass
PHEUR Wavenumber accuracy				
Peak at 3060.0 (cm-1)	3061.0	3059.0	3059.5	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass
Peak at 906.6 (cm-1)	907.6	905.6	906.6	Pass
PHEUR Optical resolution				
Resolution 2870 - 2849.5 (Abs)	10.00	0.33	0.44	Pass
Resolution 1589 - 1583 (Abs)	10.00	0.08	0.13	Pass
PV Energy ratio				
Energy ratio 4000 / 2000	1.00	0.20	0.35	Pass
Energy ratio 2000 / 1000	4.00	0.80	1.48	Pass

PV Noise level

P-P noise 4050 - 3950 (%T)	0.25	0.00	0.01	Pass
P-P noise 2050 - 1950 (%T)	0.221	0.00	0.007	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.01	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.13	Pass
RMS noise 4050 - 3950	0.05	0.00	0.00	Pass
RMS noise 2050 - 1950	0.039	0.00	0.002	Pass
RMS noise 1050 - 950	0.014	0.00	0.002	Pass
RMS noise 550 - 450	0.30	0.00	0.02	Pass

PV Detector linearity

Slope	1.10	0.90	1.05	Pass
Intercept (%T)	1.00	-1.00	0.00	Pass

USP Wavenumber accuracy

Peak at 3060.0 (cm-1)	3061.0	3059.0	3059.5	Pass
Peak at 2849.5 (cm-1)	2850.5	2848.5	2849.3	Pass
Peak at 1942.9 (cm-1)	1943.9	1941.9	1942.4	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1582.9	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass

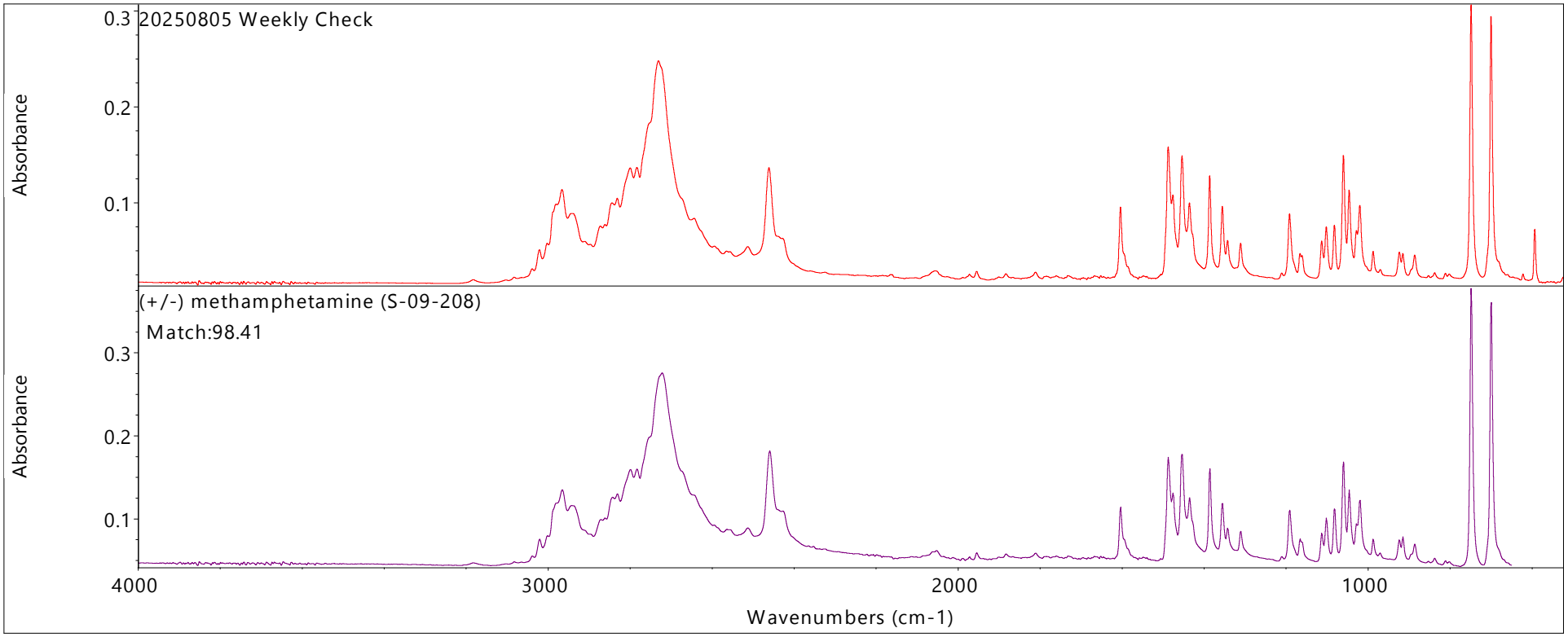
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250805 Weekly Check Tue Aug 05 08:18:36 2025 (GMT-05:00)



Collection time: Tue Aug 05 08:18:09 2025 (GMT-05:

Detector: DTGS KBr
Beamsplitter: KBr
Source: IR

Number of sample scans: 16
Number of background scans: 16
Resolution: 4.000
Sample gain: 1.0
Optical velocity: 0.4747
Aperture: 80.00

Spectrum: 20250805 Weekly Check
Region: 3999.64-649.89
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
3	98.41	(+/-) methamphetamine (S-09-208)	BCCL Drug
1	98.25	Methamphetamine HCl (S-09-204)	BCCL Drug
14	28.51	d,l Amphetamine sulfate (S-09-207)	BCCL Drug
13	25.92	d Amphetamine sulfate (S-09-205)	BCCL Drug
30	18.92	Methocarbamol (S-18-033)	BCCL Drug
34	15.69	Pregabalin (S-24-003)	BCCL Drug
4	13.41	(-)-Tetramisole hydrochloride (S-23-018)	BCCL Drug
6	12.82	Aspirin (acetyl salicylic acid) (S-23-02 3)	BCCL Drug
8	12.67	Caffeine (S-23-022)	BCCL Drug
16	12.56	Dimethyl sulfone (S-23-019)	BCCL Drug

Tue Aug 05 08:18:30 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250805 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.160
Sensitivity: 50
Peak list:

Position:	699.3	Intensity:	0.295
Position:	747.9	Intensity:	0.307
Position:	2730.4	Intensity:	0.248

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, August 11, 2025 9:33:55 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250811_093355.spg

Test description	High limit	Low limit	Measured	Result
CP Wavenumber accuracy				
Peak at 3027.0 (cm-1)	3032.0	3022.0	3025.5	Pass
Peak at 2851.0 (cm-1)	2856.0	2846.0	2849.3	Pass
Peak at 1601.0 (cm-1)	1602.0	1600.0	1601.0	Pass
Peak at 1028.0 (cm-1)	1029.0	1027.0	1028.3	Pass
Peak at 907.0 (cm-1)	908.0	906.0	906.6	Pass
CP Optical resolution				
Resolution 2870 - 2849.5 (%T)	100.00	18.00	37.00	Pass
Resolution 1589 - 1583 (%T)	100.00	12.00	24.00	Pass
CP Peak Resolution				
Peaks between 3120 and 2850 cm-1	7	7	7	Pass
JP Wavenumber accuracy				
Peak at 3060.0 (cm-1)	3061.5	3058.5	3059.5	Pass
Peak at 2849.5 (cm-1)	2851.0	2848.0	2849.3	Pass
Peak at 1942.9 (cm-1)	1944.4	1941.4	1942.4	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1582.9	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass
JP Optical resolution				
Resolution 2870 - 2849.5 (%T)	100.00	18.00	37.00	Pass
Resolution 1589 - 1583 (%T)	100.00	12.00	24.00	Pass
JP Repeatability				
Peak at 3027.1 (cm-1)	5.00	-5.00	0.00	Pass
Peak at 1028.3 (cm-1)	1.00	-1.00	0.00	Pass
Intensity at 2849.5 (%T)	0.50	-0.50	0.00	Pass
Intensity at 1028.3 (%T)	0.50	-0.50	0.00	Pass
PHEUR Wavenumber accuracy				
Peak at 3060.0 (cm-1)	3061.0	3059.0	3059.5	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass
Peak at 906.6 (cm-1)	907.6	905.6	906.6	Pass
PHEUR Optical resolution				
Resolution 2870 - 2849.5 (Abs)	10.00	0.33	0.44	Pass
Resolution 1589 - 1583 (Abs)	10.00	0.08	0.13	Pass
PV Energy ratio				
Energy ratio 4000 / 2000	1.00	0.20	0.34	Pass
Energy ratio 2000 / 1000	4.00	0.80	1.47	Pass

PV Noise level

P-P noise 4050 - 3950 (%T)	0.25	0.00	0.04	Pass
P-P noise 2050 - 1950 (%T)	0.221	0.00	0.038	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.01	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.14	Pass
RMS noise 4050 - 3950	0.05	0.00	0.01	Pass
RMS noise 2050 - 1950	0.039	0.00	0.008	Pass
RMS noise 1050 - 950	0.014	0.00	0.002	Pass
RMS noise 550 - 450	0.30	0.00	0.03	Pass

PV Detector linearity

Slope	1.10	0.90	1.04	Pass
Intercept (%T)	1.00	-1.00	0.00	Pass

USP Wavenumber accuracy

Peak at 3060.0 (cm-1)	3061.0	3059.0	3059.5	Pass
Peak at 2849.5 (cm-1)	2850.5	2848.5	2849.3	Pass
Peak at 1942.9 (cm-1)	1943.9	1941.9	1942.3	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1582.9	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass

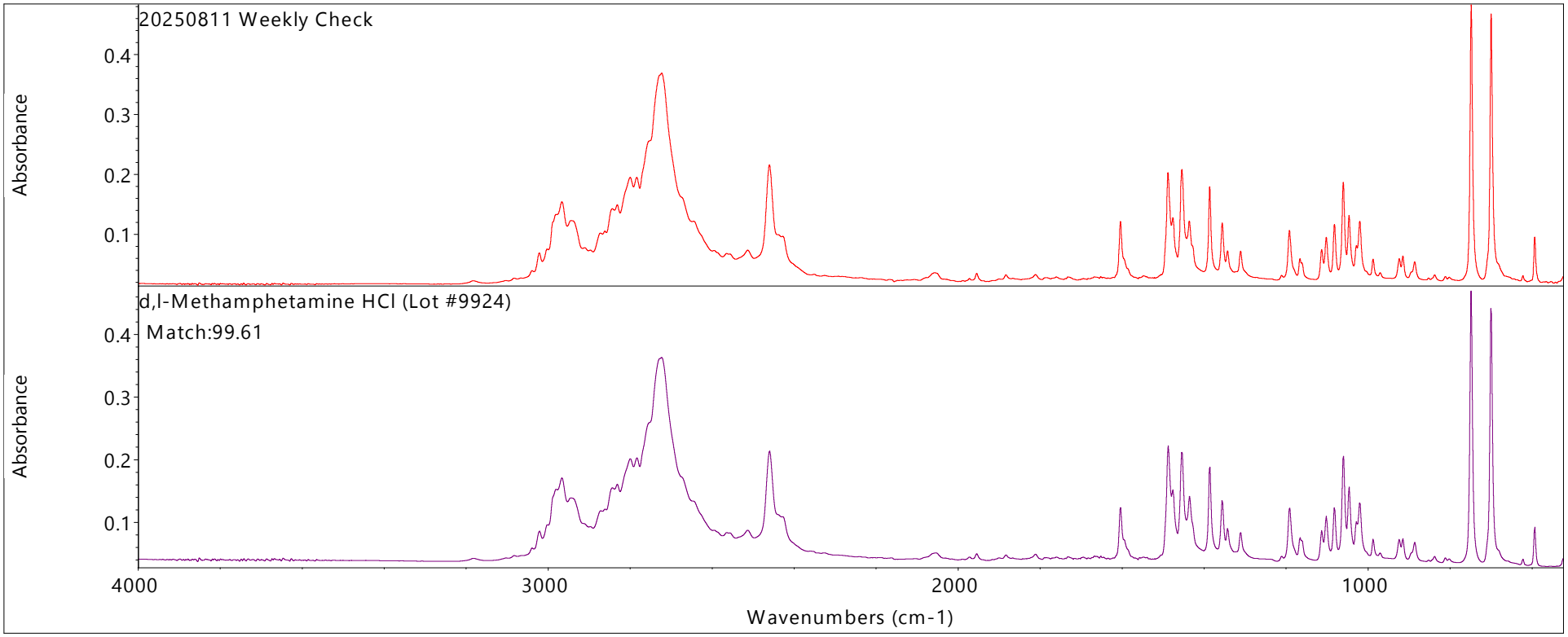
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250811 Weekly Check Mon Aug 11 11:25:22 2025 (GMT-05:00)



Collection time: Mon Aug 11 11:21:34 2025 (GMT-05

Detector: DTGS KBr
Beamsplitter: KBr
Source: IR

Number of sample scans: 16
Number of background scans: 16
Resolution: 4.000
Sample gain: 1.0
Optical velocity: 0.4747
Aperture: 80.00

Spectrum: 20250811 Weekly Check
Region: 3999.81-525.03
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
278	99.61	d,l-Methamphetamine HCl (Lot #9924)	Master SFL1 FTIR library v. 082719
207	98.86	d-Methamphetamine HCl (Lot #406D)	Master SFL1 FTIR library v. 082719
155	97.69	l-methamphetamine HCl (Lot #STD 570.1)	Master SFL1 FTIR library v. 082719
131	55.77	BZP diHCl (Lot #ALB90-5)	Master SFL1 FTIR library v. 082719
530	48.23	dl-N-Methylephedrine HCl (Lot #10675)	Master SFL1 FTIR library v. 082719
512	47.60	Ephedrine base (Lot #02502DU)	Master SFL1 FTIR library v. 082719
243	45.02	APP-CHMINACA (Lot #0467677-8)	Master SFL1 FTIR library v. 082719
595	44.73	para-Methoxy furanyl fentanyl HCl (Lot # 0546725-1)	Master SFL1 FTIR library v. 082719
607	43.76	5-Fluoro-CUMYL-PINACA (Lot #0546719-1)	Master SFL1 FTIR library v. 082719
213	40.92	N,N-Dimethylamphetamine HCl (Lot #H-0402 -(S)-02)	Master SFL1 FTIR library v. 082719

Mon Aug 11 11:22:02 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250811 WQeekly Check
Region: 4000.1 525.0
Absolute threshold: 0.078
Sensitivity: 50
Peak list:

Position:	592.7	Intensity:	0.0953
Position:	699.0	Intensity:	0.468
Position:	747.7	Intensity:	0.483
Position:	1019.5	Intensity:	0.121
Position:	1045.8	Intensity:	0.131
Position:	1059.9	Intensity:	0.187
Position:	1081.3	Intensity:	0.116
Position:	1101.2	Intensity:	0.0943
Position:	1191.1	Intensity:	0.106
Position:	1355.1	Intensity:	0.118
Position:	1385.7	Intensity:	0.179
Position:	1435.4	Intensity:	0.122
Position:	1453.4	Intensity:	0.208
Position:	1487.4	Intensity:	0.203
Position:	1603.4	Intensity:	0.121
Position:	2459.7	Intensity:	0.215
Position:	2722.4	Intensity:	0.369
Position:	2783.2	Intensity:	0.194
Position:	2965.9	Intensity:	0.154

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, August 18, 2025 7:31:28 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250818_073128.spg

Test description	High limit	Low limit	Measured	Result
CP Wavenumber accuracy				
Peak at 3027.0 (cm-1)	3032.0	3022.0	3025.4	Pass
Peak at 2851.0 (cm-1)	2856.0	2846.0	2849.3	Pass
Peak at 1601.0 (cm-1)	1602.0	1600.0	1601.0	Pass
Peak at 1028.0 (cm-1)	1029.0	1027.0	1028.3	Pass
Peak at 907.0 (cm-1)	908.0	906.0	906.6	Pass
CP Optical resolution				
Resolution 2870 - 2849.5 (%T)	100.00	18.00	37.00	Pass
Resolution 1589 - 1583 (%T)	100.00	12.00	24.00	Pass
CP Peak Resolution				
Peaks between 3120 and 2850 cm-1	7	7	7	Pass
JP Wavenumber accuracy				
Peak at 3060.0 (cm-1)	3061.5	3058.5	3059.5	Pass
Peak at 2849.5 (cm-1)	2851.0	2848.0	2849.3	Pass
Peak at 1942.9 (cm-1)	1944.4	1941.4	1942.4	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1582.9	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass
JP Optical resolution				
Resolution 2870 - 2849.5 (%T)	100.00	18.00	37.00	Pass
Resolution 1589 - 1583 (%T)	100.00	12.00	24.00	Pass
JP Repeatability				
Peak at 3027.1 (cm-1)	5.00	-5.00	0.00	Pass
Peak at 1028.3 (cm-1)	1.00	-1.00	0.00	Pass
Intensity at 2849.5 (%T)	0.50	-0.50	-0.01	Pass
Intensity at 1028.3 (%T)	0.50	-0.50	-0.01	Pass
PHEUR Wavenumber accuracy				
Peak at 3060.0 (cm-1)	3061.0	3059.0	3059.5	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass
Peak at 906.6 (cm-1)	907.6	905.6	906.6	Pass
PHEUR Optical resolution				
Resolution 2870 - 2849.5 (Abs)	10.00	0.33	0.44	Pass
Resolution 1589 - 1583 (Abs)	10.00	0.08	0.13	Pass
PV Energy ratio				
Energy ratio 4000 / 2000	1.00	0.20	0.35	Pass
Energy ratio 2000 / 1000	4.00	0.80	1.48	Pass

PV Noise level

P-P noise 4050 - 3950 (%T)	0.25	0.00	0.01	Pass
P-P noise 2050 - 1950 (%T)	0.221	0.00	0.005	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.01	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.10	Pass
RMS noise 4050 - 3950	0.05	0.00	0.00	Pass
RMS noise 2050 - 1950	0.039	0.00	0.001	Pass
RMS noise 1050 - 950	0.014	0.00	0.002	Pass
RMS noise 550 - 450	0.30	0.00	0.02	Pass

PV Detector linearity

Slope	1.10	0.90	1.04	Pass
Intercept (%T)	1.00	-1.00	-0.02	Pass

USP Wavenumber accuracy

Peak at 3060.0 (cm-1)	3061.0	3059.0	3059.5	Pass
Peak at 2849.5 (cm-1)	2850.5	2848.5	2849.3	Pass
Peak at 1942.9 (cm-1)	1943.9	1941.9	1942.4	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1582.9	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass

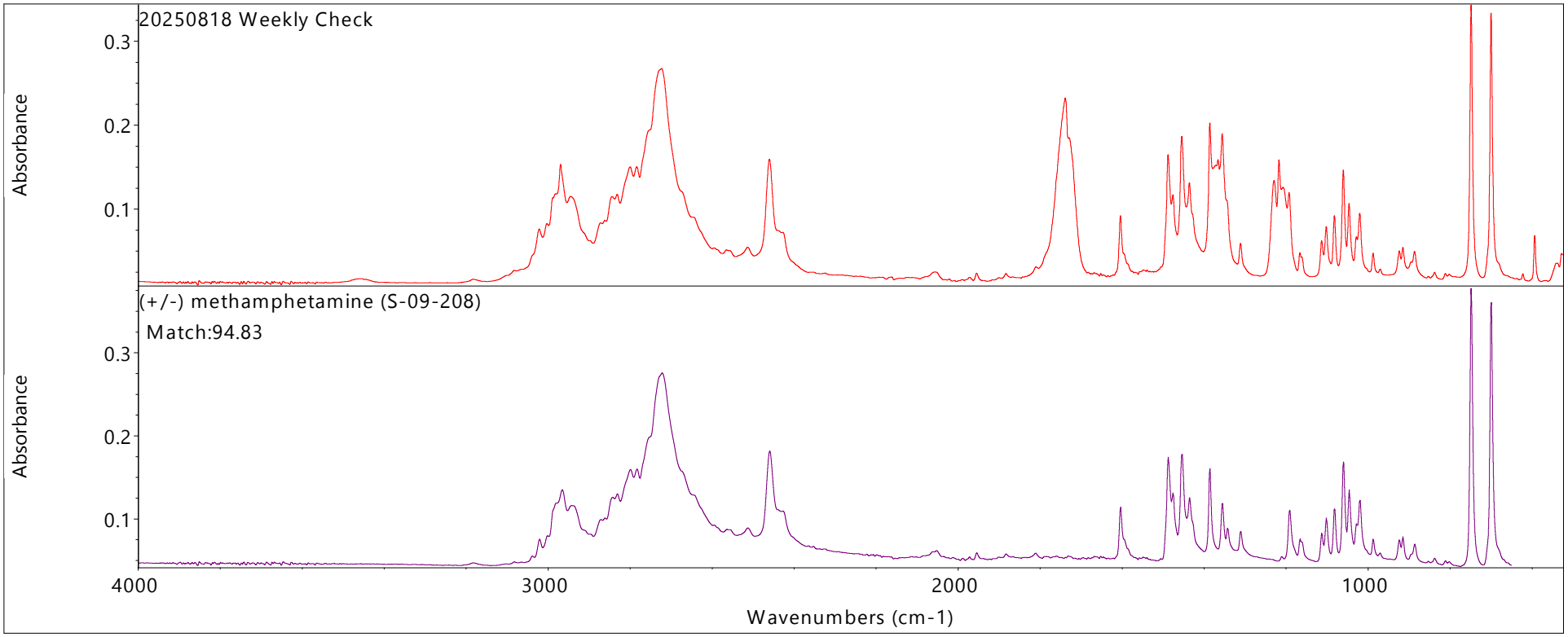
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250818 Weekly Check Mon Aug 18 09:55:21 2025 (GMT-05:00)



Collection time: Mon Aug 18 09:54:58 2025 (GMT-05

Detector: DTGS KBr
Beamsplitter: KBr
Source: IR

Number of sample scans: 16
Number of background scans: 16
Resolution: 4.000
Sample gain: 1.0
Optical velocity: 0.4747
Aperture: 80.00

Spectrum: 20250818 Weekly Check
Region: 3999.64-649.89
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
3	94.83	(+/-) methamphetamine (S-09-208)	BCCL Drug
1	94.27	Methamphetamine HCl (S-09-204)	BCCL Drug
14	28.23	d,l Amphetamine sulfate (S-09-207)	BCCL Drug
13	26.88	d Amphetamine sulfate (S-09-205)	BCCL Drug
30	18.85	Methocarbamol (S-18-033)	BCCL Drug
34	15.04	Pregabalin (S-24-003)	BCCL Drug
35	13.86	Trazodone HCl (S-24-004)	BCCL Drug
6	12.22	Aspirin (acetyl salicylic acid) (S-23-02 3)	BCCL Drug
16	12.05	Dimethyl sulfone (S-23-019)	BCCL Drug
7	11.72	Benzocaine (C-10-0049)	BCCL Drug

Mon Aug 18 09:55:17 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250818 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.176
Sensitivity: 50
Peak list:

Position:	699.2	Intensity:	0.334
Position:	747.9	Intensity:	0.344
Position:	1355.1	Intensity:	0.189
Position:	1385.4	Intensity:	0.202
Position:	1453.7	Intensity:	0.186
Position:	1738.3	Intensity:	0.232
Position:	2722.6	Intensity:	0.267

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, August 25, 2025 8:20:31 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250825_082031.spg

Test description	High limit	Low limit	Measured	Result
CP Wavenumber accuracy				
Peak at 3027.0 (cm-1)	3032.0	3022.0	3025.4	Pass
Peak at 2851.0 (cm-1)	2856.0	2846.0	2849.3	Pass
Peak at 1601.0 (cm-1)	1602.0	1600.0	1601.0	Pass
Peak at 1028.0 (cm-1)	1029.0	1027.0	1028.3	Pass
Peak at 907.0 (cm-1)	908.0	906.0	906.6	Pass
CP Optical resolution				
Resolution 2870 - 2849.5 (%T)	100.00	18.00	37.00	Pass
Resolution 1589 - 1583 (%T)	100.00	12.00	24.00	Pass
CP Peak Resolution				
Peaks between 3120 and 2850 cm-1	7	7	7	Pass
JP Wavenumber accuracy				
Peak at 3060.0 (cm-1)	3061.5	3058.5	3059.5	Pass
Peak at 2849.5 (cm-1)	2851.0	2848.0	2849.3	Pass
Peak at 1942.9 (cm-1)	1944.4	1941.4	1942.4	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1582.9	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass
JP Optical resolution				
Resolution 2870 - 2849.5 (%T)	100.00	18.00	37.00	Pass
Resolution 1589 - 1583 (%T)	100.00	12.00	24.00	Pass
JP Repeatability				
Peak at 3027.1 (cm-1)	5.00	-5.00	-0.01	Pass
Peak at 1028.3 (cm-1)	1.00	-1.00	0.00	Pass
Intensity at 2849.5 (%T)	0.50	-0.50	0.00	Pass
Intensity at 1028.3 (%T)	0.50	-0.50	0.00	Pass
PHEUR Wavenumber accuracy				
Peak at 3060.0 (cm-1)	3061.0	3059.0	3059.5	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass
Peak at 906.6 (cm-1)	907.6	905.6	906.6	Pass
PHEUR Optical resolution				
Resolution 2870 - 2849.5 (Abs)	10.00	0.33	0.44	Pass
Resolution 1589 - 1583 (Abs)	10.00	0.08	0.13	Pass
PV Energy ratio				
Energy ratio 4000 / 2000	1.00	0.20	0.34	Pass
Energy ratio 2000 / 1000	4.00	0.80	1.48	Pass

PV Noise level

P-P noise 4050 - 3950 (%T)	0.25	0.00	0.09	Pass
P-P noise 2050 - 1950 (%T)	0.221	0.00	0.104	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.02	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.26	Pass
RMS noise 4050 - 3950	0.05	0.00	0.02	Pass
RMS noise 2050 - 1950	0.039	0.00	0.022	Pass
RMS noise 1050 - 950	0.014	0.00	0.003	Pass
RMS noise 550 - 450	0.30	0.00	0.06	Pass

PV Detector linearity

Slope	1.10	0.90	1.05	Pass
Intercept (%T)	1.00	-1.00	-0.01	Pass

USP Wavenumber accuracy

Peak at 3060.0 (cm-1)	3061.0	3059.0	3059.5	Pass
Peak at 2849.5 (cm-1)	2850.5	2848.5	2849.3	Pass
Peak at 1942.9 (cm-1)	1943.9	1941.9	1942.4	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.0	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1582.9	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.3	Pass

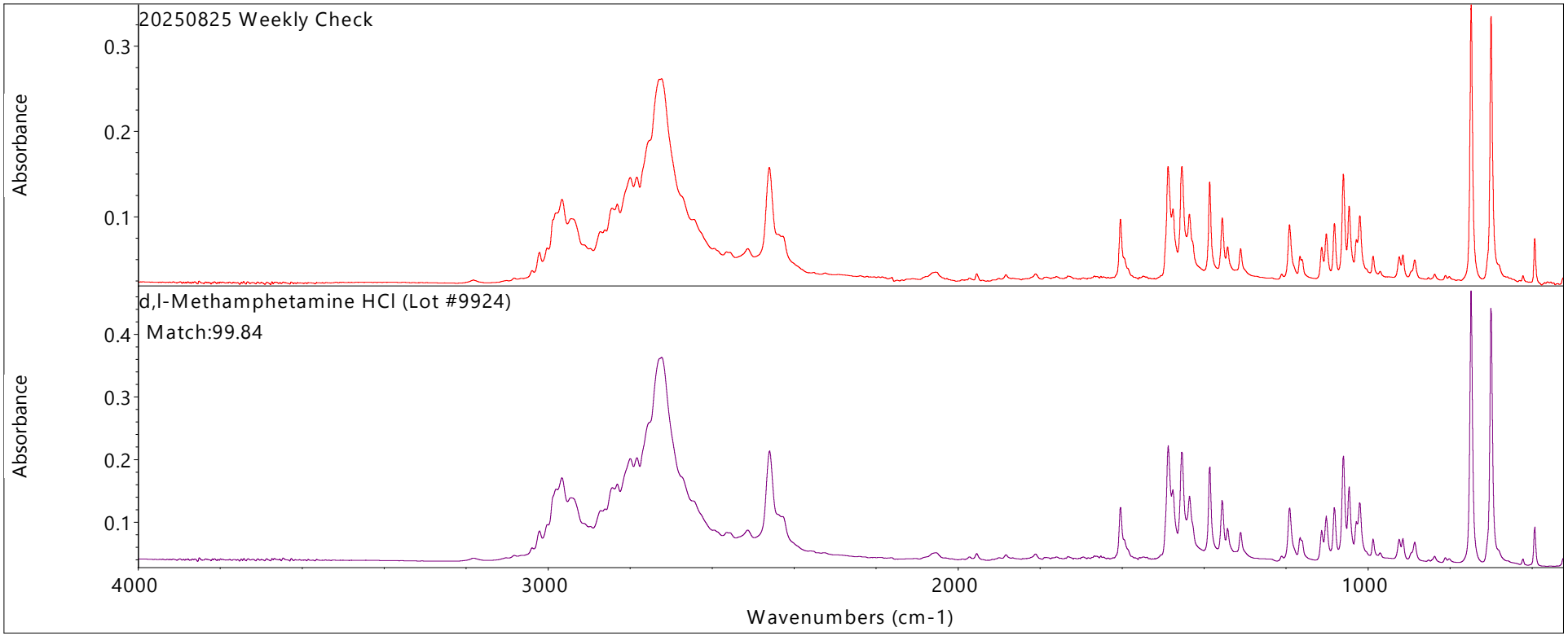
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250825 Weekly Check Mon Aug 25 11:30:26 2025 (GMT-05:00)



Collection time: Mon Aug 25 11:29:46 2025 (GMT-05

Detector: DTGS KBr
Beamsplitter: KBr
Source: IR

Number of sample scans: 16
Number of background scans: 16
Resolution: 4.000
Sample gain: 1.0
Optical velocity: 0.4747
Aperture: 80.00

Spectrum: 20250825 Weekly Check
Region: 3999.81-525.03
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
278	99.84	d,l-Methamphetamine HCl (Lot #9924)	Master SFL1 FTIR library v. 082719
207	99.25	d-Methamphetamine HCl (Lot #406D)	Master SFL1 FTIR library v. 082719
155	98.18	l-methamphetamine HCl (Lot #STD 570.1)	Master SFL1 FTIR library v. 082719
131	56.48	BZP diHCl (Lot #ALB90-5)	Master SFL1 FTIR library v. 082719
512	47.04	Ephedrine base (Lot #02502DU)	Master SFL1 FTIR library v. 082719
530	46.64	dl-N-Methylephedrine HCl (Lot #10675)	Master SFL1 FTIR library v. 082719
243	45.04	APP-CHMINACA (Lot #0467677-8)	Master SFL1 FTIR library v. 082719
595	44.38	para-Methoxy furanyl fentanyl HCl (Lot # 0546725-1)	Master SFL1 FTIR library v. 082719
607	43.15	5-Fluoro-CUMYL-PINACA (Lot #0546719-1)	Master SFL1 FTIR library v. 082719
581	41.10	3-Methyl butyryl fentanyl HCl (Lot #0535 128-1)	Master SFL1 FTIR library v. 082719

Mon Aug 25 11:29:57 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250825 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.083
Sensitivity: 50
Peak list:

Position:	699.2	Intensity:	0.335
Position:	747.8	Intensity:	0.348
Position:	1019.4	Intensity:	0.101
Position:	1045.6	Intensity:	0.112
Position:	1059.6	Intensity:	0.150
Position:	1081.3	Intensity:	0.0916
Position:	1190.9	Intensity:	0.0903
Position:	1355.0	Intensity:	0.0983
Position:	1385.7	Intensity:	0.140
Position:	1435.2	Intensity:	0.103
Position:	1453.4	Intensity:	0.159
Position:	1487.2	Intensity:	0.158
Position:	1603.4	Intensity:	0.0967
Position:	2459.9	Intensity:	0.158
Position:	2722.7	Intensity:	0.262
Position:	2783.0	Intensity:	0.146
Position:	2965.7	Intensity:	0.120