Brazoria County Crime Lab

Seized Drugs Section

FTIR Maintenance Log

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

Entry Number	Date	Alignment	ValPro Qualification	Known Standard Verification	Maintenance/PM	Analyst/Technician	Comments	Initials
1	6/2/2025	✓	Pass	✓	Maintenance	Analyst		KB
2	6/9/2025	✓	Pass	✓	Maintenance	Analyst		DS
3	6/16/2025	✓	Pass	✓	Maintenance	Analyst		DS
4	6/23/2025	✓	Pass	✓	Maintenance	Analyst		KB
5	6/30/2025	✓	Pass	✓	Maintenance	Analyst		KB

Signature: Derek Sanders **Date:** 07/07/2025

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, June 2, 2025 11:03:46 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250602_110346.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	0.03	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	0.34	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	0.01	Pass
P-P noise 2050 - 1950 (%T)	0.221	0.00	0.011	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.01	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.32	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	0.05	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	1942.3	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

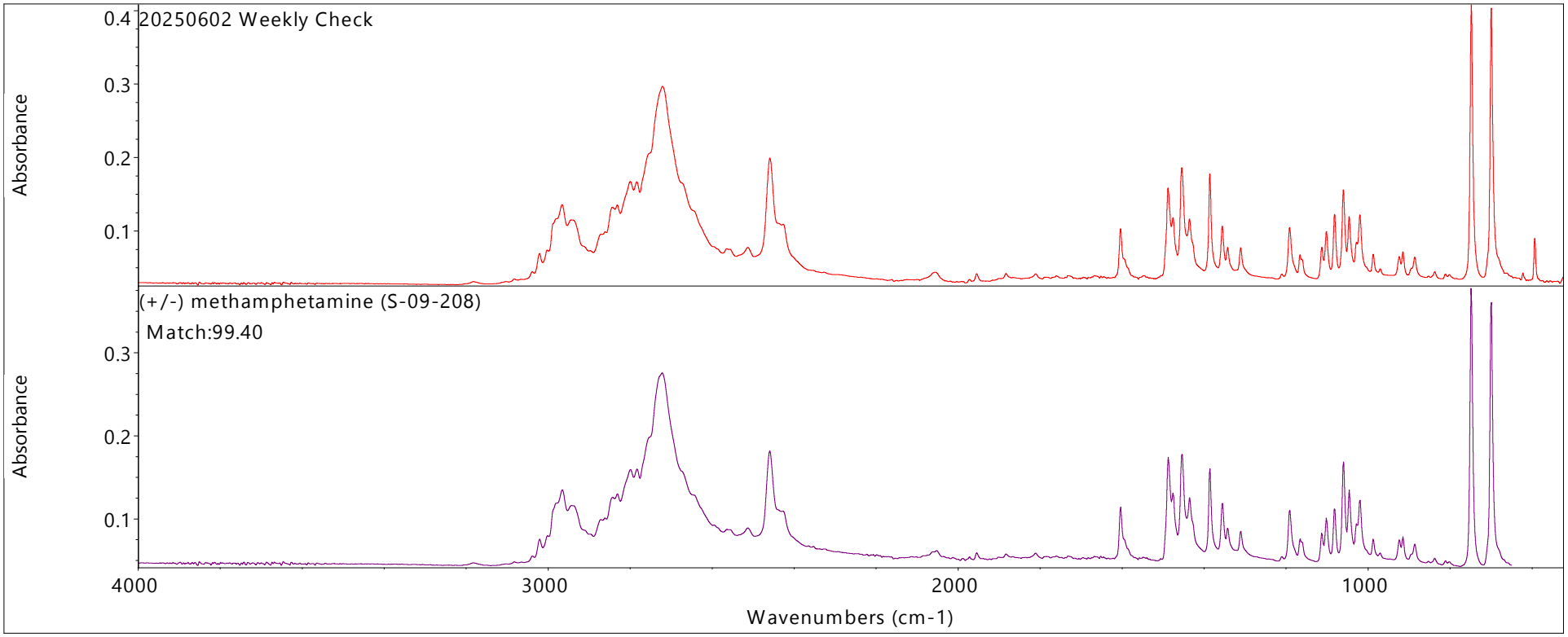
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250602 Weekly Check Mon Jun 02 14:02:21 2025 (GMT-05:00)



Collection time: Mon Jun 02 14:01:24 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: 20250602 Weekly Check
Region: 3999.64-649.89
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
3	99.40	(+/-) methamphetamine (S-09-208)	BCCL Drug
1	99.29	Methamphetamine HCl (S-09-204)	BCCL Drug
14	32.21	d,l Amphetamine sulfate (S-09-207)	BCCL Drug
13	31.63	d Amphetamine sulfate (S-09-205)	BCCL Drug
30	18.51	Methocarbamol (S-18-033)	BCCL Drug
8	17.37	Caffeine (S-23-022)	BCCL Drug
34	17.03	Pregabalin (S-24-003)	BCCL Drug
16	15.27	Dimethyl sulfone (S-23-019)	BCCL Drug
7	12.57	Benzocaine (C-10-0049)	BCCL Drug
27	11.90	Fast Blue BB Salt (S-10-381A)	BCCL Drug

Mon Jun 02 14:02:08 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250602 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.217
Sensitivity: 50
Peak list:

Position:	698.8	Intensity:	0.404
Position:	747.4	Intensity:	0.408
Position:	2720.5	Intensity:	0.297

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, June 9, 2025 8:19:18 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250609_081918.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	0.35	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	0.006	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.01	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.20	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	0.03	Pass

PV Detector linearity

Slope	1.10	0.90	1.05	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	1942.3	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

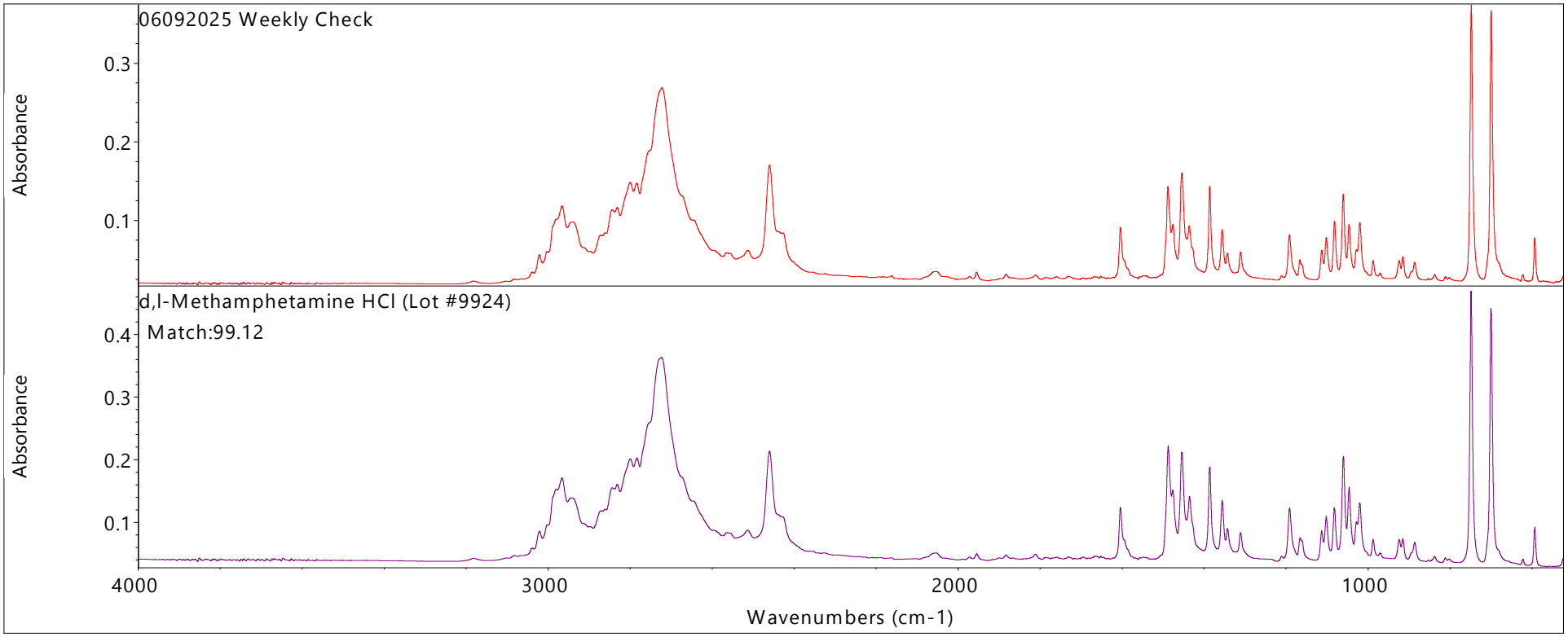
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 06092025 Weekly Check Mon Jun 09 09:28:54 2025 (GMT-05:00)



Collection time: Mon Jun 09 09:28:34 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: 06092025 Weekly Check
Region: 3999.81-525.03
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
278	99.12	d,l-Methamphetamine HCl (Lot #9924)	Master SFL1 FTIR library v. 082719
207	98.21	d-Methamphetamine HCl (Lot #406D)	Master SFL1 FTIR library v. 082719
155	97.17	l-methamphetamine HCl (Lot #STD 570.1)	Master SFL1 FTIR library v. 082719
131	56.90	BZP diHCl (Lot #ALB90-5)	Master SFL1 FTIR library v. 082719
530	49.93	dl-N-Methylephedrine HCl (Lot #10675)	Master SFL1 FTIR library v. 082719
512	48.50	Ephedrine base (Lot #02502DU)	Master SFL1 FTIR library v. 082719
595	46.00	para-Methoxy furanyl fentanyl HCl (Lot # 0546725-1)	Master SFL1 FTIR library v. 082719
243	45.70	APP-CHMINACA (Lot #0467677-8)	Master SFL1 FTIR library v. 082719
607	44.69	5-Fluoro-CUMYL-PINACA (Lot #0546719-1)	Master SFL1 FTIR library v. 082719
213	42.48	N,N-Dimethylamphetamine HCl (Lot #H-0402 -(S)-02)	Master SFL1 FTIR library v. 082719

Mon Jun 09 09:28:42 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 06092025 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.106
Sensitivity: 50
Peak list:

Position	Intensity
699.0	0.367
747.6	0.375
1059.9	0.133
1385.7	0.143
1453.4	0.160
1487.5	0.143
2459.3	0.170
2721.8	0.269
2799.4	0.148
2965.7	0.118

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, June 16, 2025 11:02:21 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250616_110221.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	0.00	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	0.12	Pass
PV Energy ratio				
Energy ratio 4000 / 2000	1.00	0.20	0.35	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	0.01	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	0.57	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	0.003	Pass
RMS noise 550 - 450	0.30	0.00	0.08	Pass

PV Detector linearity

Slope	1.10	0.90	1.06	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	1942.3	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1600.9	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

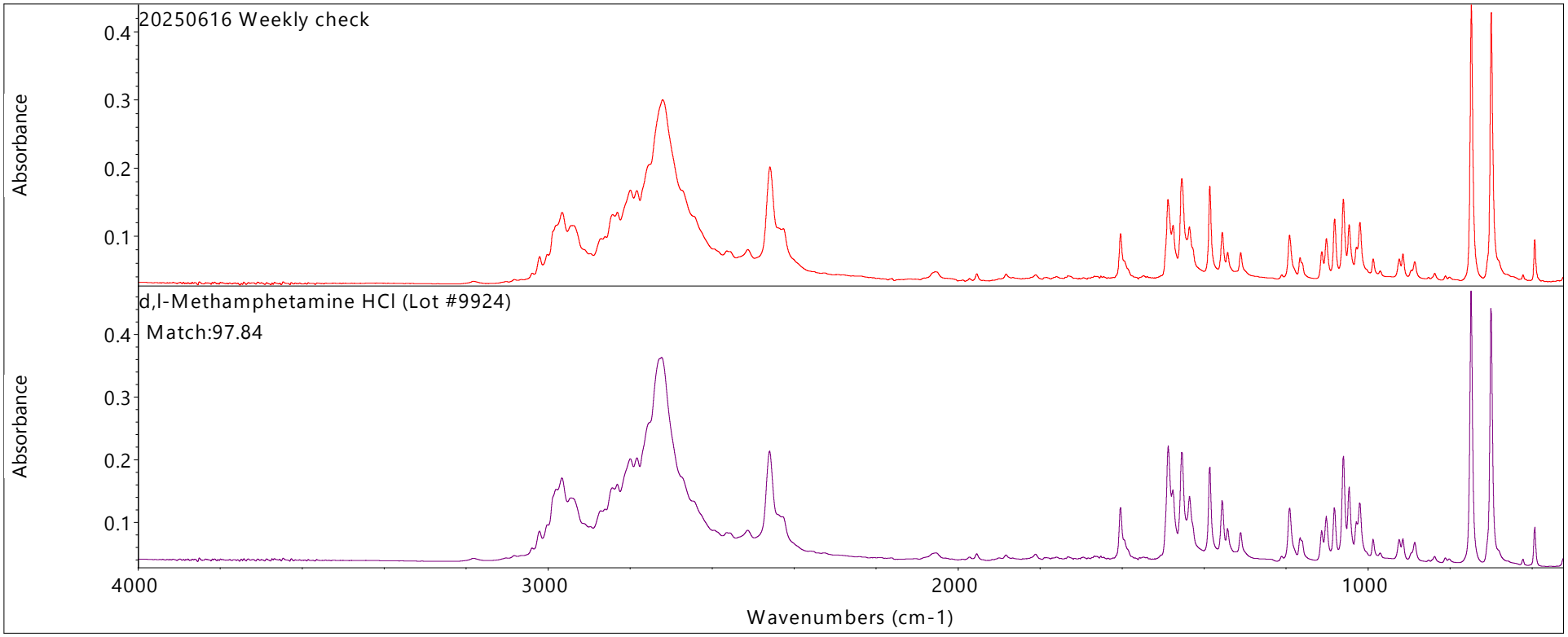
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250616 Weekly check Mon Jun 16 11:50:40 2025 (GMT-05:00)



Collection time: Mon Jun 16 11:50:20 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: 20250616 Weekly check
Region: 3999.81-525.03
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
278	97.84	d,l-Methamphetamine HCl (Lot #9924)	Master SFL1 FTIR library v. 082719
207	96.35	d-Methamphetamine HCl (Lot #406D)	Master SFL1 FTIR library v. 082719
155	95.30	l-methamphetamine HCl (Lot #STD 570.1)	Master SFL1 FTIR library v. 082719
131	57.48	BZP diHCl (Lot #ALB90-5)	Master SFL1 FTIR library v. 082719
530	51.07	dl-N-Methylephedrine HCl (Lot #10675)	Master SFL1 FTIR library v. 082719
512	48.27	Ephedrine base (Lot #02502DU)	Master SFL1 FTIR library v. 082719
595	46.39	para-Methoxy furanyl fentanyl HCl (Lot # 0546725-1)	Master SFL1 FTIR library v. 082719
243	44.75	APP-CHMINACA (Lot #0467677-8)	Master SFL1 FTIR library v. 082719
607	44.37	5-Fluoro-CUMYL-PINACA (Lot #0546719-1)	Master SFL1 FTIR library v. 082719
213	42.96	N,N-Dimethylamphetamine HCl (Lot #H-0402 -(S)-02)	Master SFL1 FTIR library v. 082719

Mon Jun 16 11:50:36 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250616 Weekly check
Region: 4000.1 525.0
Absolute threshold: 0.092
Sensitivity: 50
Peak list:

Position:	592.6	Intensity:	0.0942
Position:	698.8	Intensity:	0.429
Position:	747.4	Intensity:	0.440
Position:	1019.1	Intensity:	0.120
Position:	1045.5	Intensity:	0.116
Position:	1059.7	Intensity:	0.154
Position:	1080.9	Intensity:	0.125
Position:	1100.9	Intensity:	0.0958
Position:	1190.7	Intensity:	0.101
Position:	1355.0	Intensity:	0.105
Position:	1385.4	Intensity:	0.173
Position:	1435.2	Intensity:	0.113
Position:	1453.5	Intensity:	0.184
Position:	1487.3	Intensity:	0.153
Position:	1603.1	Intensity:	0.103
Position:	2458.4	Intensity:	0.201
Position:	2720.1	Intensity:	0.300
Position:	2798.8	Intensity:	0.167
Position:	2965.3	Intensity:	0.134

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, June 23, 2025 7:52:03 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250623_075203.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	0.35	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	0.01	Pass
P-P noise 2050 - 1950 (%T)	0.221	0.00	0.011	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.01	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.11	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	0.01	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	1942.3	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

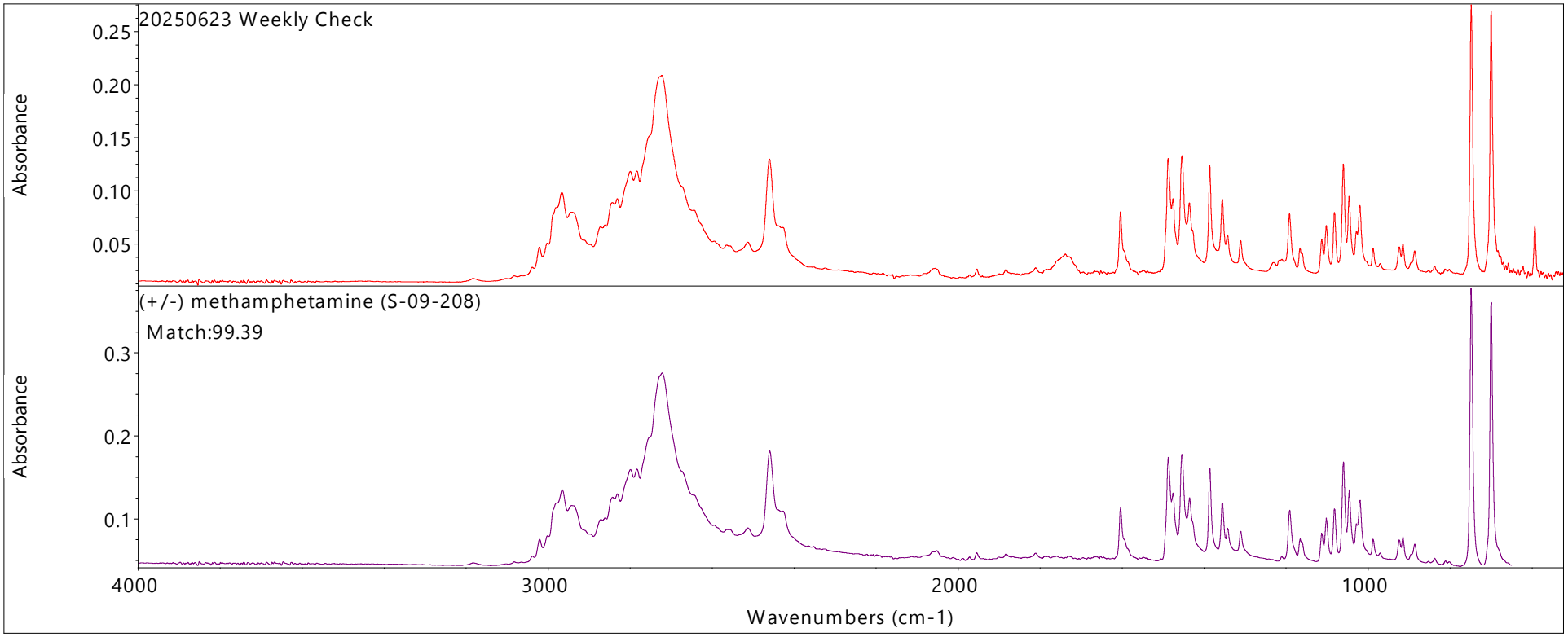
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250623 Weekly Check Mon Jun 23 08:49:18 2025 (GMT-05:00)



Collection time: Mon Jun 23 08:48:18 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: 20250623 Weekly Check
Region: 3999.64-649.89
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
3	99.39	(+/-) methamphetamine (S-09-208)	BCCL Drug
1	99.36	Methamphetamine HCl (S-09-204)	BCCL Drug
14	30.71	d,l Amphetamine sulfate (S-09-207)	BCCL Drug
13	29.01	d Amphetamine sulfate (S-09-205)	BCCL Drug
30	18.55	Methocarbamol (S-18-033)	BCCL Drug
34	16.26	Pregabalin (S-24-003)	BCCL Drug
8	15.40	Caffeine (S-23-022)	BCCL Drug
16	13.74	Dimethyl sulfone (S-23-019)	BCCL Drug
7	11.93	Benzocaine (C-10-0049)	BCCL Drug
35	11.85	Trazodone HCl (S-24-004)	BCCL Drug

Mon Jun 23 08:48:56 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250623 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.143
Sensitivity: 50
Peak list:

Position:	699.1	Intensity:	0.269
Position:	747.7	Intensity:	0.275
Position:	2722.3	Intensity:	0.208

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, June 30, 2025 7:34:22 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250630_073422.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	25.00	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	-0.02	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	0.05	Pass
P-P noise 2050 - 1950 (%T)	0.221	0.00	0.052	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.01	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.17	Pass
RMS noise 4050 - 3950	0.05	0.00	0.01	Pass
RMS noise 2050 - 1950	0.039	0.00	0.012	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	1.05	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

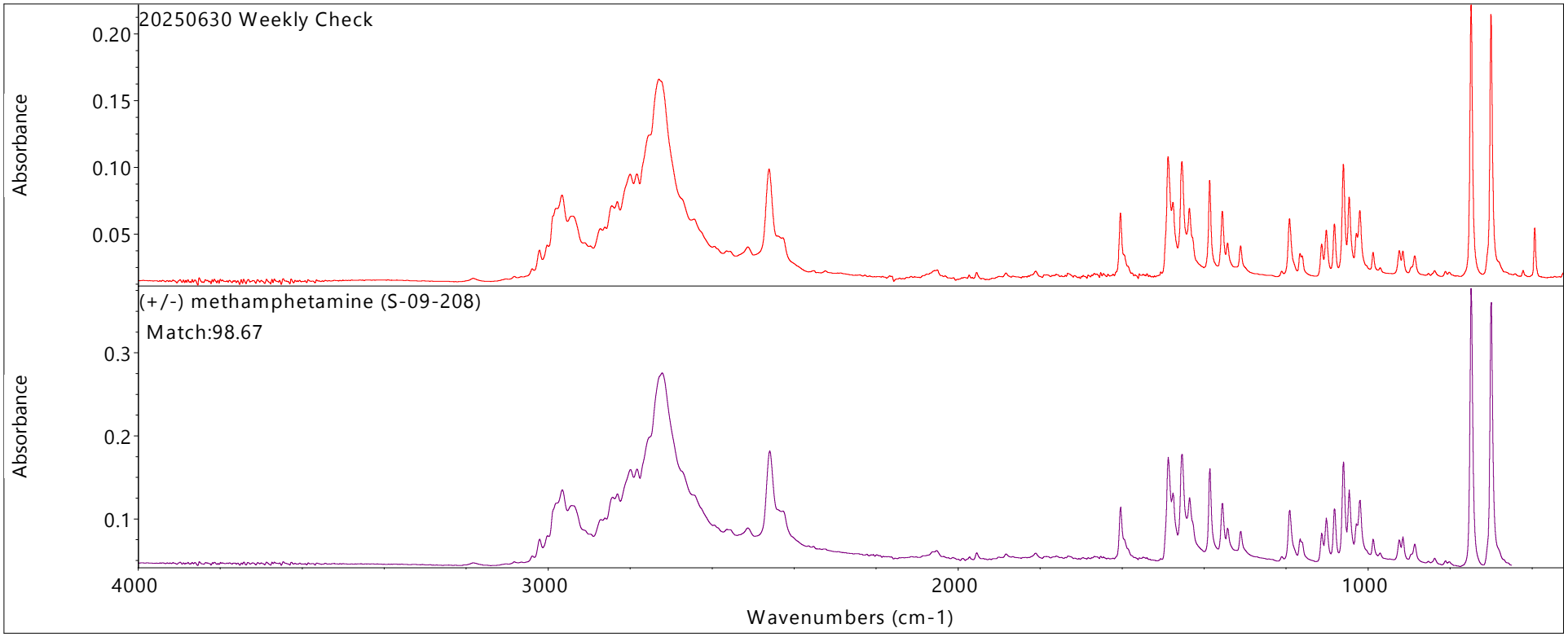
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250630 Weekly Check Mon Jun 30 11:55:02 2025 (GMT-05:00)



Collection time: Mon Jun 30 11:54:30 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: 20250630 Weekly Check
Region: 3999.64-649.89
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
3	98.67	(+/-) methamphetamine (S-09-208)	BCCL Drug
1	97.99	Methamphetamine HCl (S-09-204)	BCCL Drug
14	28.92	d,l Amphetamine sulfate (S-09-207)	BCCL Drug
13	26.25	d Amphetamine sulfate (S-09-205)	BCCL Drug
30	19.70	Methocarbamol (S-18-033)	BCCL Drug
34	16.02	Pregabalin (S-24-003)	BCCL Drug
4	14.38	(-)-Tetramisole hydrochloride (S-23-018)	BCCL Drug
6	13.02	Aspirin (acetyl salicylic acid) (S-23-02 3)	BCCL Drug
16	12.95	Dimethyl sulfone (S-23-019)	BCCL Drug
8	12.51	Caffeine (S-23-022)	BCCL Drug

Mon Jun 30 11:54:47 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250630 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.117
Sensitivity: 50
Peak list:

Position:	699.4	Intensity:	0.215
Position:	747.9	Intensity:	0.222
Position:	2729.4	Intensity:	0.166