Brazoria County Crime Lab

Seized Drugs Section

FTIR Maintenance Log

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

Entry Number	Date	Alignment	ValPro Qualification	Known Standard Verification	Maintenance/PM	Analyst/Technician	Comments	Initials
1	4/8/2025	✓	Pass	✓	Maintenance	Analyst		DS
2	4/14/2025	✓	Pass	✓	Maintenance	Analyst		KB
3	4/22/2025	✓	Pass	✓	Maintenance	Analyst		DS
4	4/28/2025	✓	Pass	✓	Maintenance	Analyst	Weekly check -DS	KB/DS

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: Tuesday, April 8, 2025 9:58:00 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250408_095800.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	1942.5	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	0.01	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	0.36	Pass
Energy ratio 2000 / 1000	4.00	0.80	1.50	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	0.15	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	1.04	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

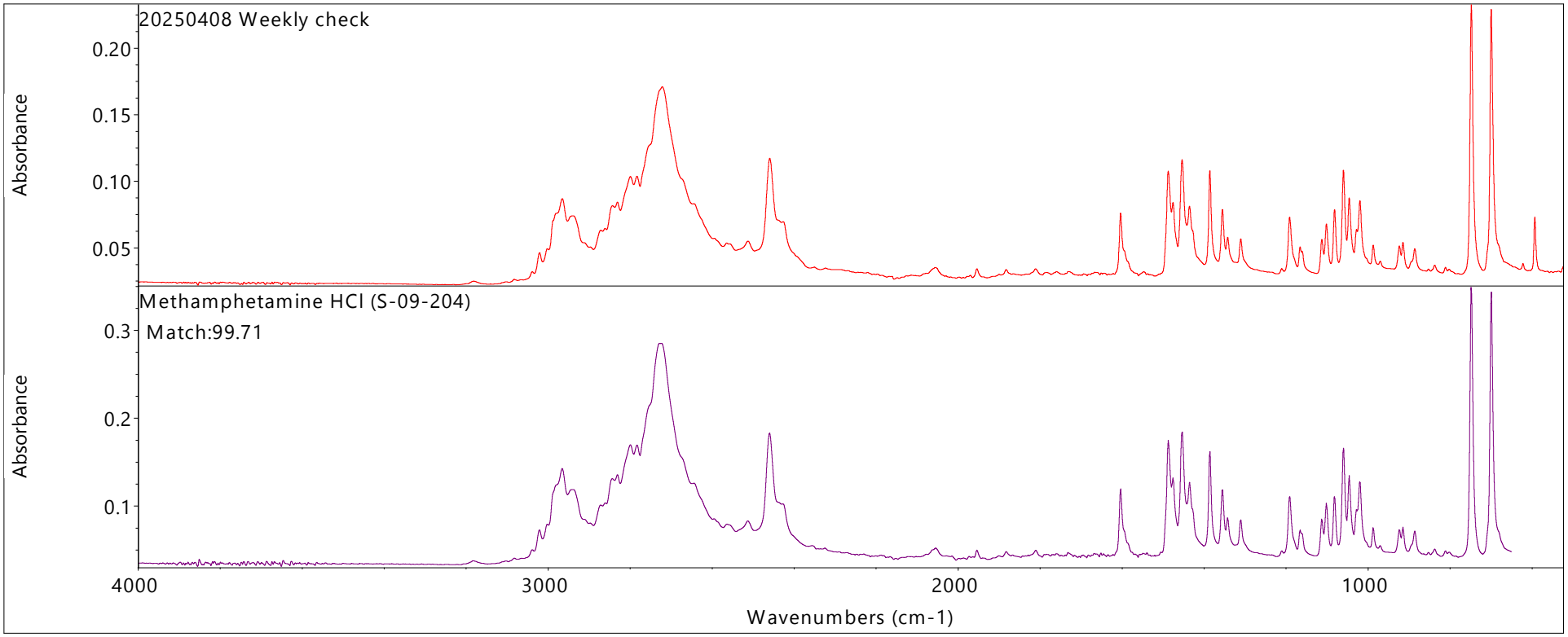
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250408 Weekly check Tue Apr 08 10:40:35 2025 (GMT-05:00)



Collection time: Tue Apr 08 10:38:52 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: 20250408 Weekly check
Region: 3999.64-649.89
Search type: Correlation

Hit List:

Index	Match	Compound name	Library
1	99.71	Methamphetamine HCl (S-09-204)	BCCL Drug
3	99.18	(+/-) methamphetamine (S-09-208)	BCCL Drug
14	32.23	d,l Amphetamine sulfate (S-09-207)	BCCL Drug
13	30.98	d Amphetamine sulfate (S-09-205)	BCCL Drug
8	18.51	Caffeine (S-23-022)	BCCL Drug
30	17.78	Methocarbamol (S-18-033)	BCCL Drug
34	16.62	Pregabalin (S-24-003)	BCCL Drug
16	13.96	Dimethyl sulfone (S-23-019)	BCCL Drug
27	12.44	Fast Blue BB Salt (S-10-381A)	BCCL Drug
7	12.01	Benzocaine (C-10-0049)	BCCL Drug

Tue Apr 08 10:39:07 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250408 Weekly check
Region: 4000.1 525.0
Absolute threshold: 0.067
Sensitivity: 50
Peak list:

Position:	592.5	Intensity:	0.0729
Position:	698.8	Intensity:	0.229
Position:	747.4	Intensity:	0.233
Position:	1019.1	Intensity:	0.0851
Position:	1045.3	Intensity:	0.0872
Position:	1059.4	Intensity:	0.108
Position:	1081.0	Intensity:	0.0784
Position:	1100.8	Intensity:	0.0676
Position:	1190.6	Intensity:	0.0728
Position:	1354.7	Intensity:	0.0786
Position:	1385.3	Intensity:	0.108
Position:	1434.9	Intensity:	0.0810
Position:	1452.8	Intensity:	0.116
Position:	1486.7	Intensity:	0.107
Position:	1603.0	Intensity:	0.0758
Position:	2458.9	Intensity:	0.117
Position:	2721.0	Intensity:	0.171
Position:	2782.7	Intensity:	0.103
Position:	2965.0	Intensity:	0.0867

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, April 14, 2025 10:40:39 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250414_104039.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	0.003	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	0.00	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	1.05	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

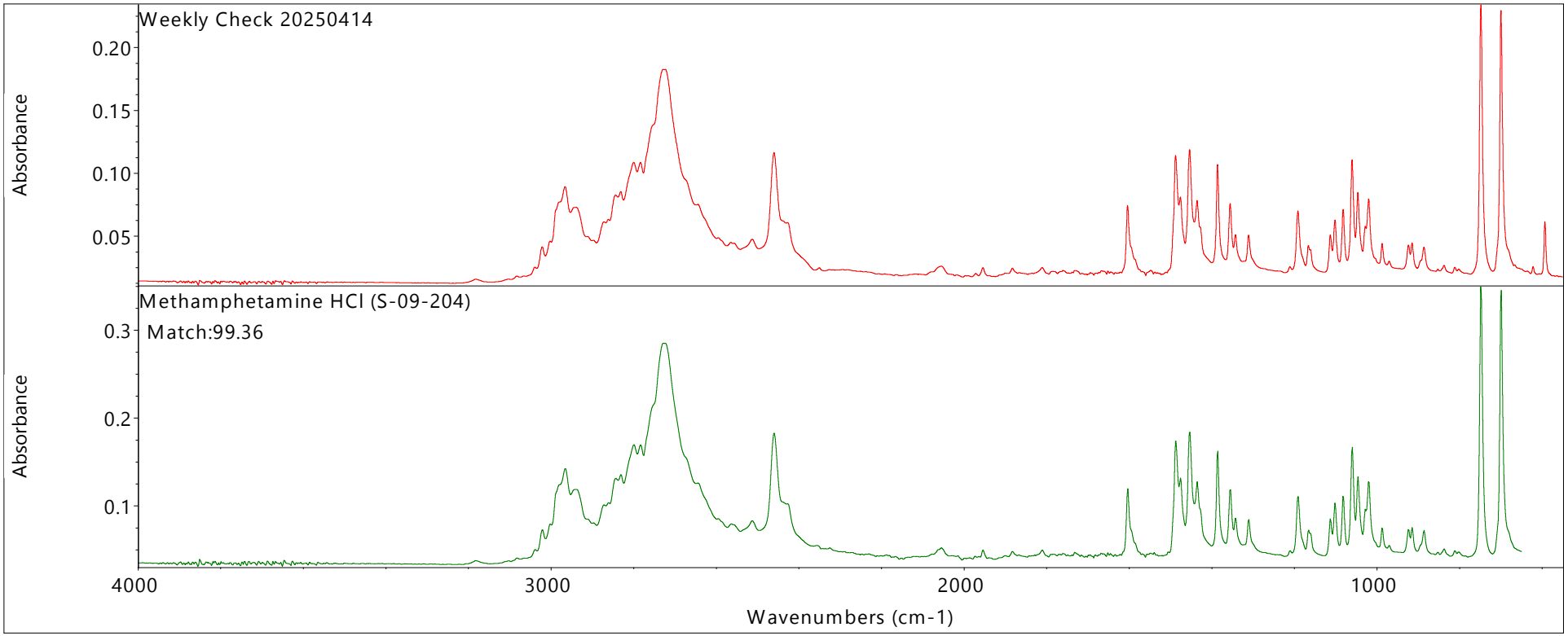
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 Weekly Check 20250414 Mon Apr 14 14:58:57 2025 (GMT-05:00)



Collection time: Mon Apr 14 14:56:47 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: Weekly Check 20250414
Region: 3999.64-649.89
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
1	99.36	Methamphetamine HCl (S-09-204)	BCCL Drug
3	98.93	(+/-) methamphetamine (S-09-208)	BCCL Drug
14	30.66	d,l Amphetamine sulfate (S-09-207)	BCCL Drug
13	29.42	d Amphetamine sulfate (S-09-205)	BCCL Drug
30	17.90	Methocarbamol (S-18-033)	BCCL Drug

Mon Apr 14 14:57:51 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: Weekly Check 20250414
Region: 4000.1 550.1
Absolute threshold: 0.122
Sensitivity: 50
Peak list:

Position:	699.0	Intensity:	0.229
Position:	747.7	Intensity:	0.234
Position:	2723.0	Intensity:	0.183

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Tuesday, April 22, 2025 9:04:31 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250422_090431.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	0.02	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	0.004	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	0.00	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	0.01	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

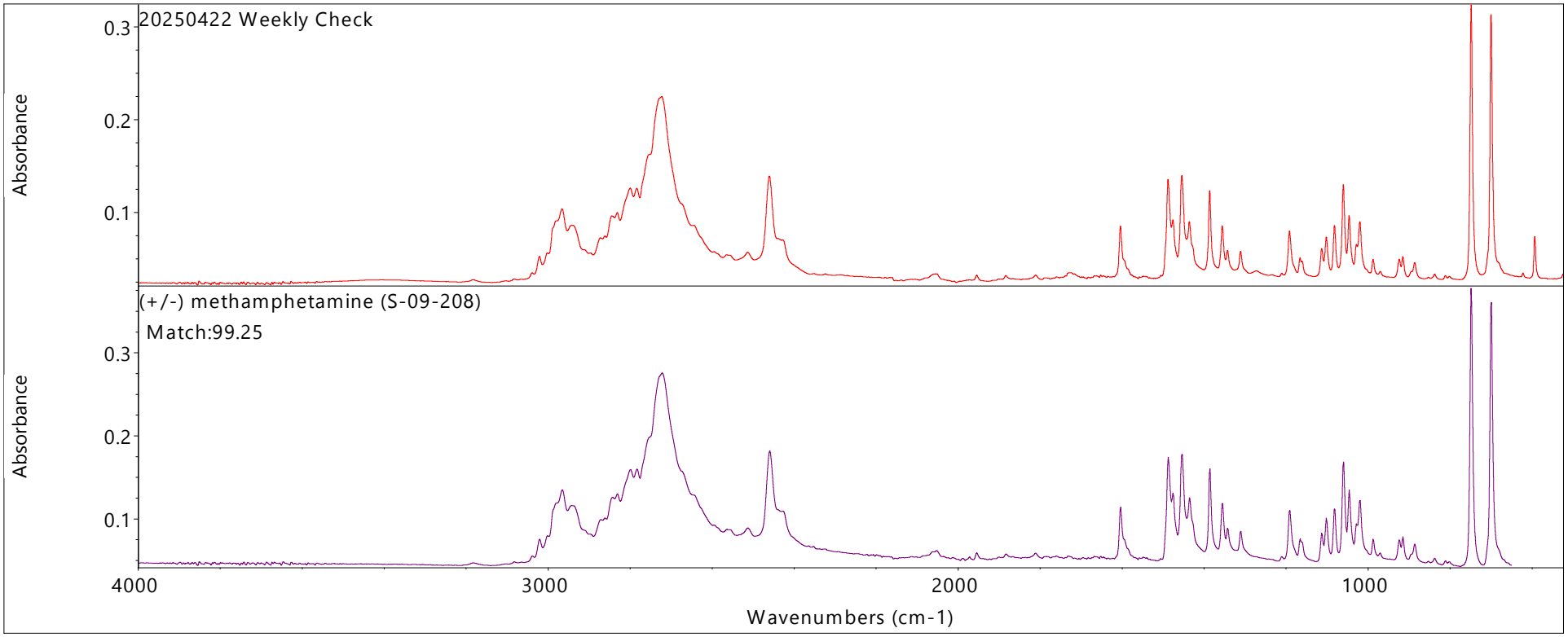
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250422 Weekly Check Tue Apr 22 09:59:59 2025 (GMT-05:00)



Collection time: Tue Apr 22 09:59:03 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: 20250422 Weekly Check
Region: 3999.64-649.89
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
3	99.25	(+/-) methamphetamine (S-09-208)	BCCL Drug
1	97.91	Methamphetamine HCl (S-09-204)	BCCL Drug
14	29.39	d,l Amphetamine sulfate (S-09-207)	BCCL Drug
13	27.55	d Amphetamine sulfate (S-09-205)	BCCL Drug
30	20.63	Methocarbamol (S-18-033)	BCCL Drug
34	16.20	Pregabalin (S-24-003)	BCCL Drug
16	13.89	Dimethyl sulfone (S-23-019)	BCCL Drug
4	13.38	(-)-Tetramisole hydrochloride (S-23-018)	BCCL Drug
35	12.81	Trazodone HCl (S-24-004)	BCCL Drug
8	12.68	Caffeine (S-23-022)	BCCL Drug

Tue Apr 22 09:59:51 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 20250422 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.070
Sensitivity: 50
Peak list:

Position:	592.7	Intensity:	0.0735
Position:	699.3	Intensity:	0.314
Position:	747.8	Intensity:	0.324
Position:	1019.3	Intensity:	0.0895
Position:	1045.6	Intensity:	0.0960
Position:	1059.7	Intensity:	0.129
Position:	1081.2	Intensity:	0.0854
Position:	1101.1	Intensity:	0.0731
Position:	1190.9	Intensity:	0.0795
Position:	1355.0	Intensity:	0.0852
Position:	1385.8	Intensity:	0.123
Position:	1435.3	Intensity:	0.0896
Position:	1453.4	Intensity:	0.139
Position:	1487.3	Intensity:	0.135
Position:	1603.4	Intensity:	0.0848
Position:	2459.8	Intensity:	0.139
Position:	2722.5	Intensity:	0.225
Position:	2965.7	Intensity:	0.104

ValPro Qualification Report

Qualification test: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV
Operator: OMNICAdmin
Date: Monday, April 28, 2025 11:00:49 AM (GMT-05:00)
Instrument: Nicolet iS20 Serial number: BEP2210424
Filename: Nicolet iS20 KBr - Factory (CP,JP,PHEUR,PV,USP) - PV_20250428_110049.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	1601.1	Pass
Peak at 1028.0 (cm-1)	1029.0	1027.0	1028.4	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	25.00	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	1942.5	Pass
Peak at 1601.2 (cm-1)	1602.2	1600.2	1601.1	Pass
Peak at 1583.0 (cm-1)	1584.0	1582.0	1583.0	Pass
Peak at 1154.5 (cm-1)	1155.5	1153.5	1154.4	Pass
Peak at 1028.3 (cm-1)	1029.3	1027.3	1028.4	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	-0.01	Pass
Peak at 1028.3 (cm-1)	1.00	-1.00	0.00	Pass
Intensity at 2849.5 (%T)	0.50	-0.50	0.04	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	0.45	Pass
Resolution 1589 - 1583 (Abs)	10.00	0.08	0.13	Pass
PV Energy ratio				
Energy ratio 4000 / 2000	1.00	0.20	0.36	Pass
Energy ratio 2000 / 1000	4.00	0.80	1.49	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	0.016	Pass
P-P noise 1050 - 950 (%T)	0.10	0.00	0.01	Pass
P-P noise 550 - 450 (%T)	1.50	0.00	0.12	Pass
RMS noise 4050 - 3950	0.05	0.00	0.00	Pass
RMS noise 2050 - 1950	0.039	0.00	0.003	Pass
RMS noise 1050 - 950	0.014	0.00	0.003	Pass
RMS noise 550 - 450	0.30	0.00	0.03	Pass

PV Detector linearity

Slope	1.10	0.90	1.02	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

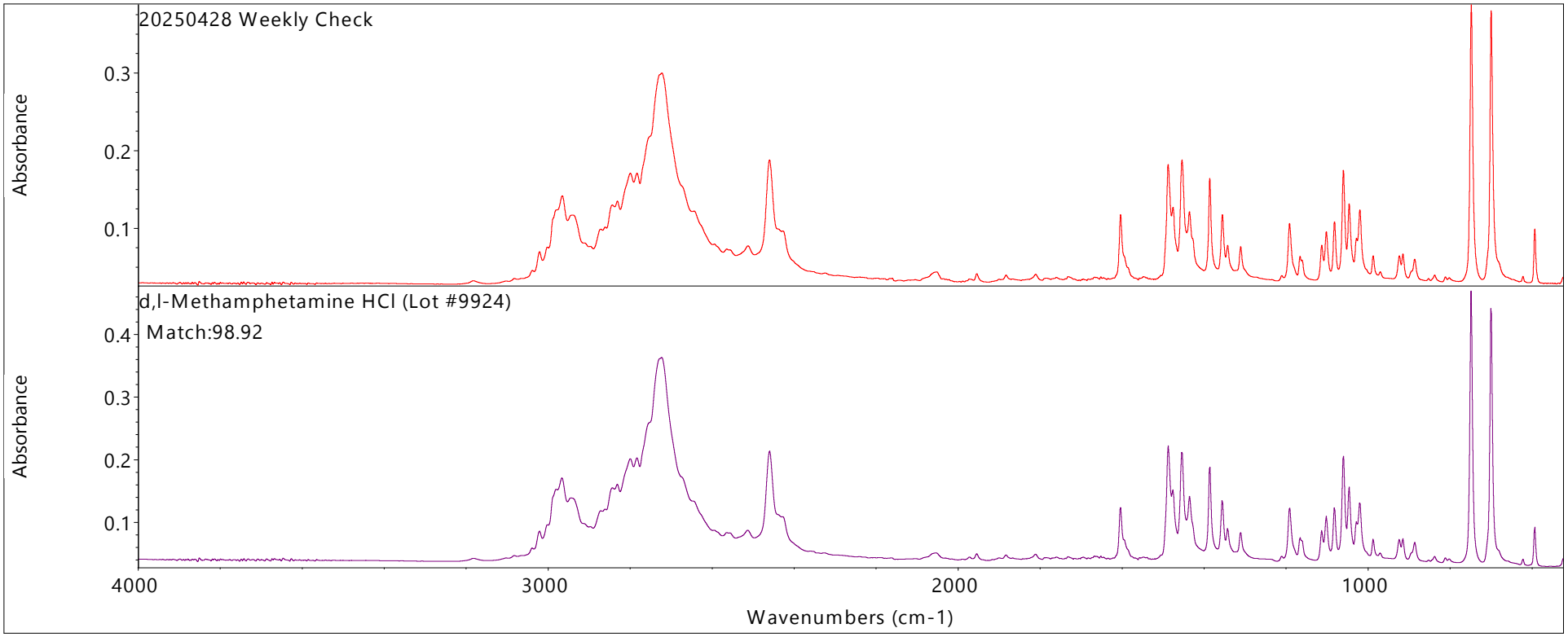
Performed by: _____ Title: _____ Date: _____

Approved by: _____ Title: _____ Date: _____

Comments: _____

Digital comment(s):
No digital comments found.

BCCL Nicolet FTIR iS20 20250428 Weekly Check Mon Apr 28 15:24:09 2025 (GMT-05:00)



Collection time: Mon Apr 28 15:22:05 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: 20250428 Weekly Check
Region: 3999.81-525.03
Search type: Correlation
Hit List:

Index	Match	Compound name	Library
278	98.92	d,l-Methamphetamine HCl (Lot #9924)	Master SFL1 FTIR library v. 082719
207	98.19	d-Methamphetamine HCl (Lot #406D)	Master SFL1 FTIR library v. 082719
155	96.15	l-methamphetamine HCl (Lot #STD 570.1)	Master SFL1 FTIR library v. 082719
131	55.12	BZP diHCl (Lot #ALB90-5)	Master SFL1 FTIR library v. 082719
530	47.86	dl-N-Methylephedrine HCl (Lot #10675)	Master SFL1 FTIR library v. 082719
512	46.79	Ephedrine base (Lot #02502DU)	Master SFL1 FTIR library v. 082719
243	44.21	APP-CHMINACA (Lot #0467677-8)	Master SFL1 FTIR library v. 082719
595	43.81	para-Methoxy furanyl fentanyl HCl (Lot # 0546725-1)	Master SFL1 FTIR library v. 082719
607	42.96	5-Fluoro-CUMYL-PINACA (Lot #0546719-1)	Master SFL1 FTIR library v. 082719
213	41.32	N,N-Dimethylamphetamine HCl (Lot #H-0402 -(S)-02)	Master SFL1 FTIR library v. 082719

Mon Apr 28 15:23:14 2025 (GMT-05:00)
FIND PEAKS:
Spectrum: 04282025 Weekly Check
Region: 4000.1 525.0
Absolute threshold: 0.160
Sensitivity: 50
Peak list:

Position: 698.9	Intensity: 0.380
Position: 747.5	Intensity: 0.389
Position: 1059.5	Intensity: 0.174
Position: 1385.5	Intensity: 0.164
Position: 1453.0	Intensity: 0.188
Position: 1487.0	Intensity: 0.182
Position: 2459.5	Intensity: 0.188
Position: 2721.9	Intensity: 0.300
Position: 2782.6	Intensity: 0.170