

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060502.D
 Acq On : 13 Mar 2020 15:04
 Operator : JC/MD
 Sample : PB127506ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:29:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	206014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	344187	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	325224	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	153024	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	133968	50.68	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.36%	
35) Dibromofluoromethane	7.57	113	102265	64.01	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	128.02%	
50) Toluene-d8	10.08	98	424155	52.46	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.92%	
62) 4-Bromofluorobenzene	12.40	95	162583	53.04	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.08%	

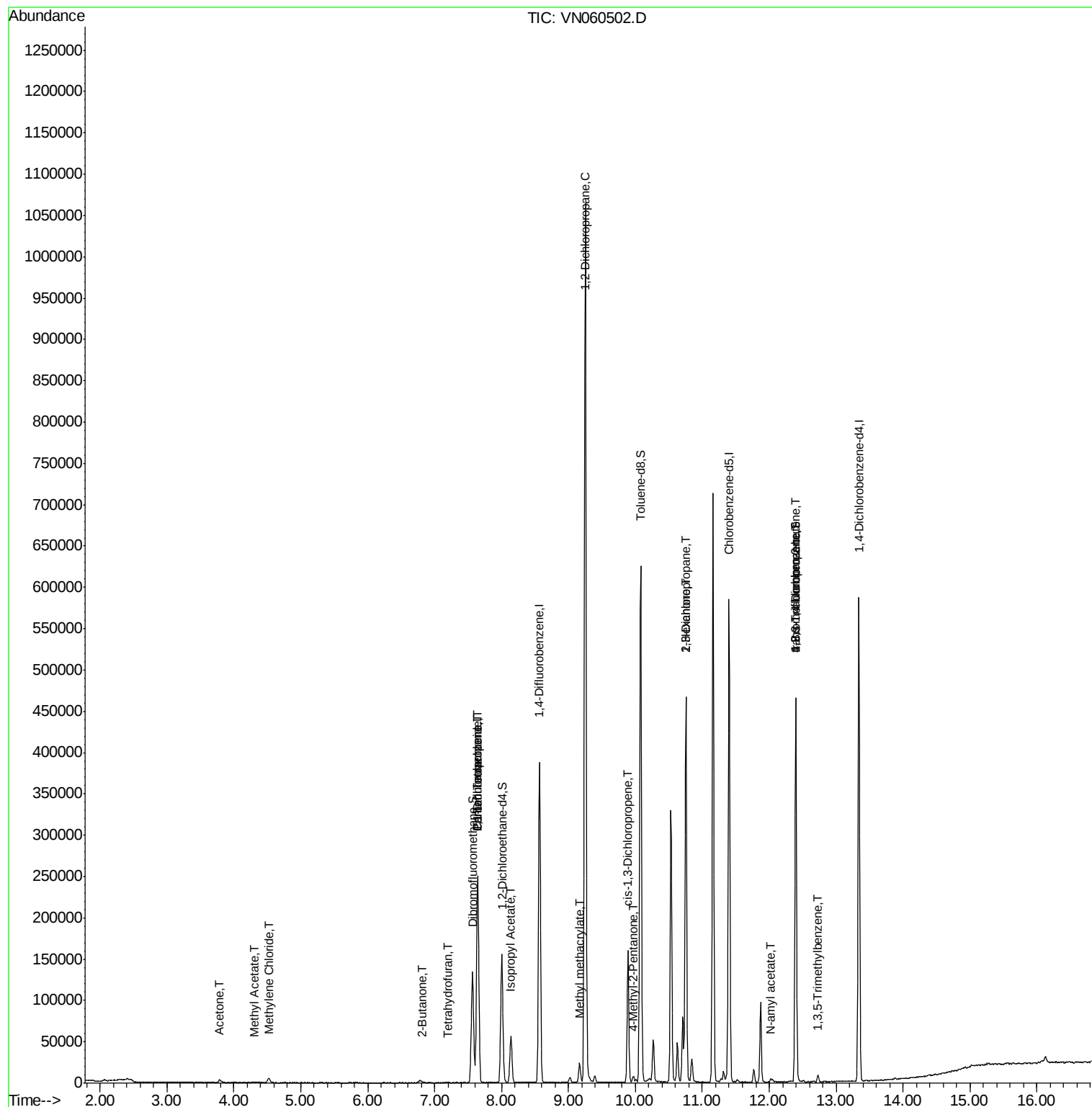
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6260	7.334	ug/l	95
18) Methyl Acetate	4.31	43	1905	0.669	ug/l #	52
20) Methylene Chloride	4.52	84	4033	1.720	ug/l #	95
25) 2-Butanone	6.81	43	1256	0.911	ug/l #	49
29) Tetrahydrofuran	7.19	42	209	0.218	ug/l #	33
31) Cyclohexane	7.64	56	4595	Below Cal	#	9
36) 1,1-Dichloropropene	7.64	75	16132	4.918	ug/l #	49
38) Carbon Tetrachloride	7.64	117	20050	6.278	ug/l #	15
43) Isopropyl Acetate	8.14	43	67448	12.404	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1166	0.467	ug/l #	44
48) Methyl methacrylate	9.16	41	3248	1.310	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5183	1.681	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	28643	6.848	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4661	1.185	ug/l #	42
59) 2-Hexanone	10.75	43	69369	30.645	ug/l #	52
74) N-amyl acetate	12.02	43	2448	0.494	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	82547	24.587	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4650	0.487	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	82547	67.871	ug/l #	8
95) Naphthalene	15.13	128	126	Below Cal	#	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

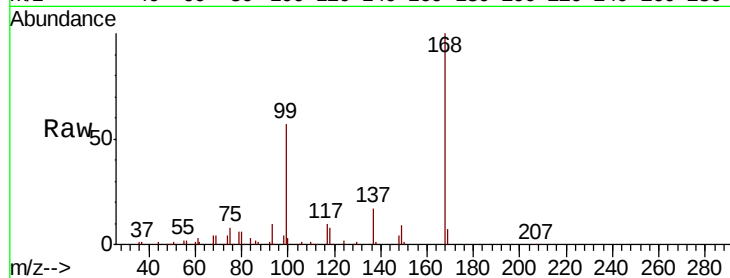
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 206014

Ion Ratio Lower Upper

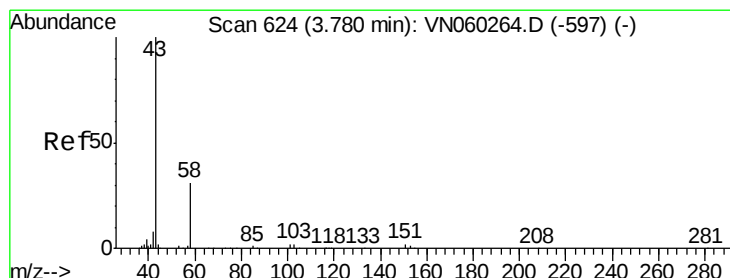
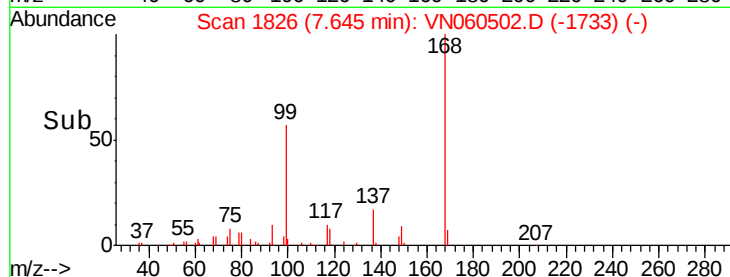
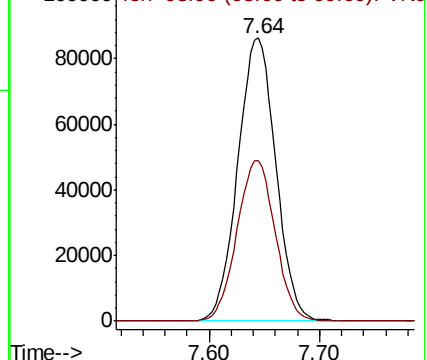
168 100

99 56.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 7.334 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060502.D

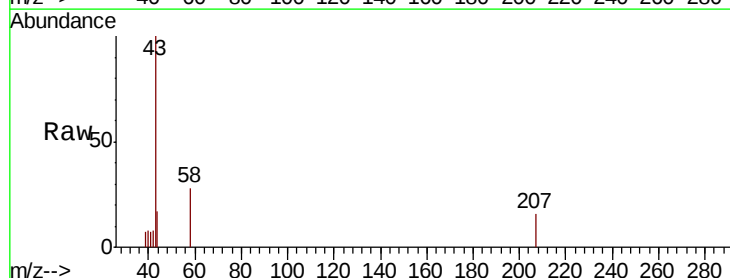
Acq: 13 Mar 2020 15:04

Tgt Ion: 43 Resp: 6260

Ion Ratio Lower Upper

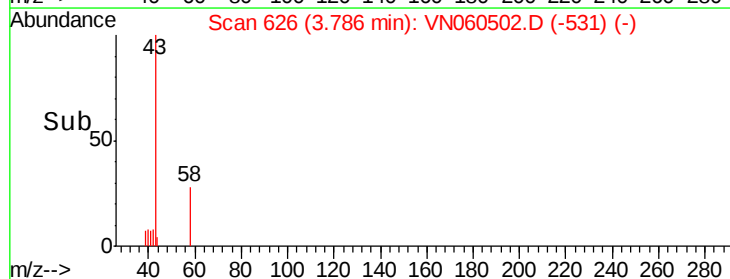
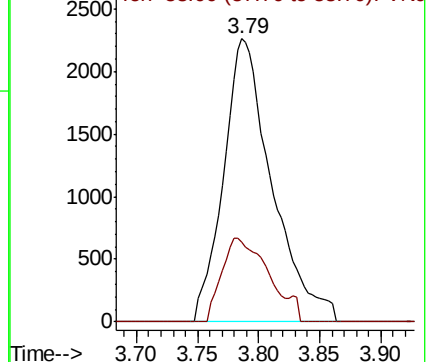
43 100

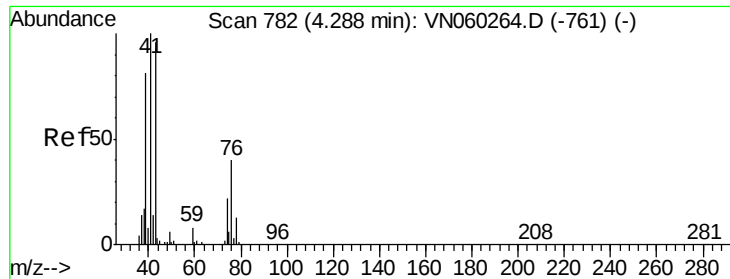
58 28.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

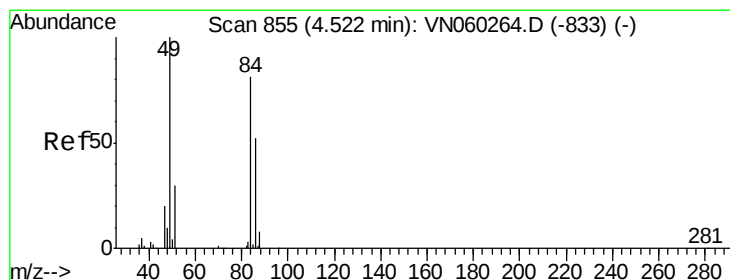
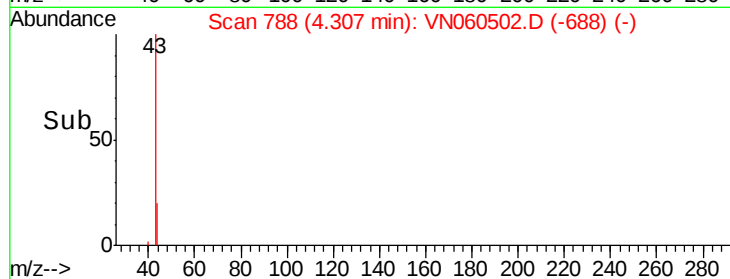
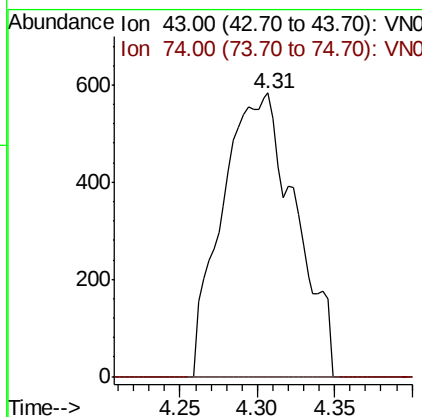
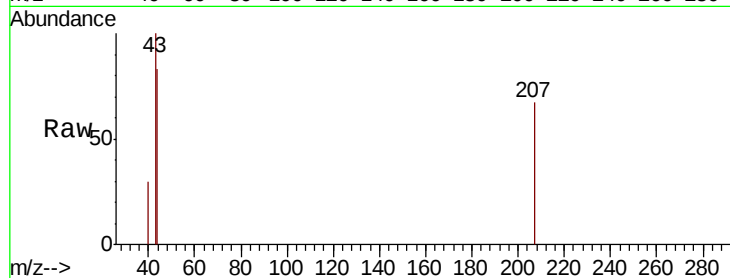




#18
Methyl Acetate
Concen: 0.669 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN060502.D
Acq: 13 Mar 2020 15:04

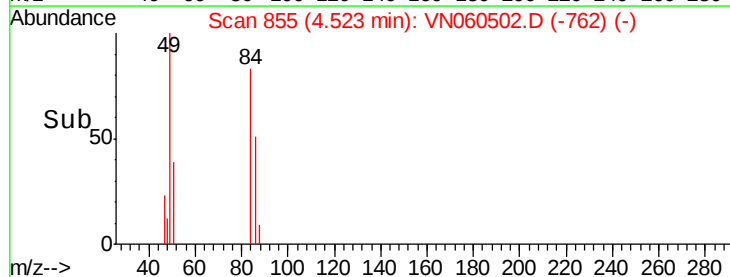
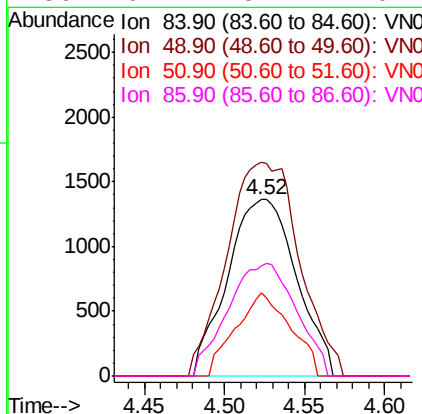
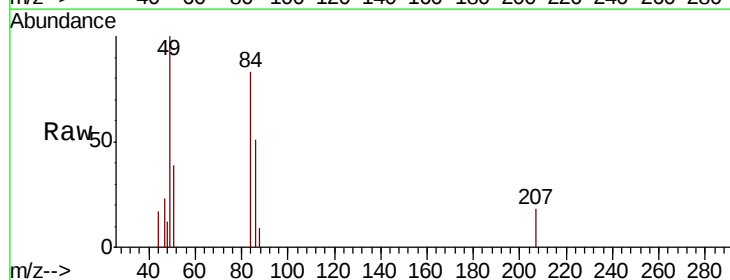
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1905
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.720 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060502.D
Acq: 13 Mar 2020 15:04

Tgt Ion: 84 Resp: 4033
Ion Ratio Lower Upper
84 100
49 121.1 99.3 148.9
51 47.0 30.1 45.1#
86 62.1 51.1 76.7





#25

2-Butanone

Concen: 0.911 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

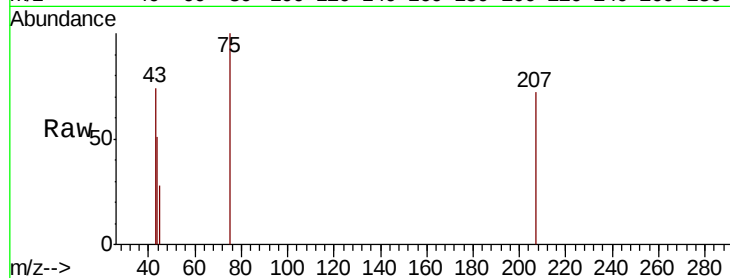
ClientSampled :

Tot Ion: 43 Resp: 1256

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

500

400

300

200

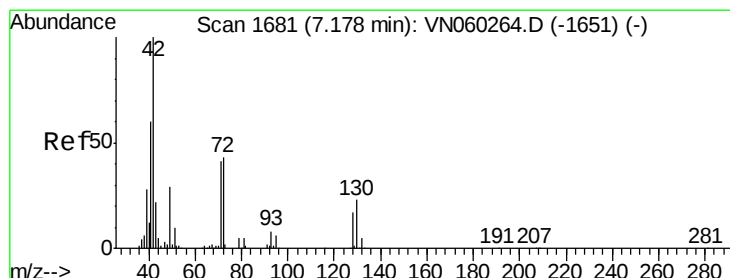
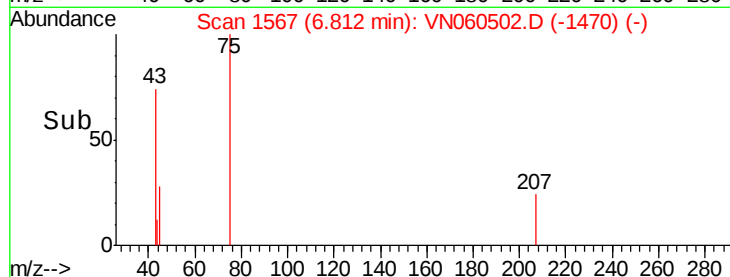
100

0

6.75 6.80 6.85

6.81

Time-->



#29

Tetrahydrofuran

Concen: 0.218 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

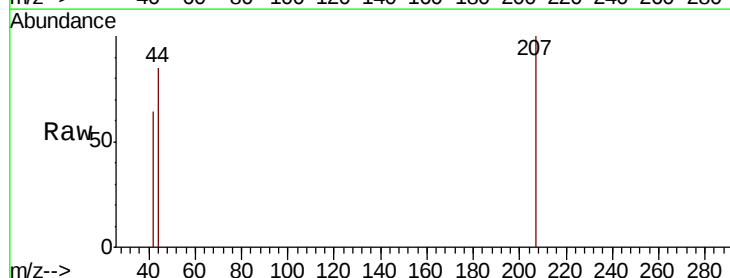
Tgt Ion: 42 Resp: 209

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

71 0.0 32.9 49.3#



Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO

250

200

150

100

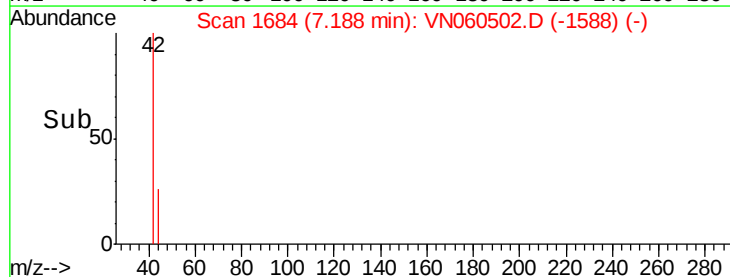
50

0

7.17 7.18 7.19 7.20 7.21

7.19

Time-->

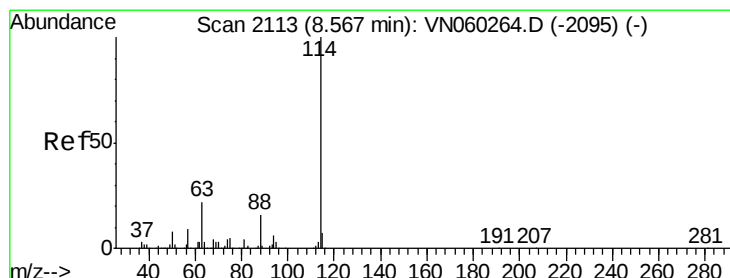
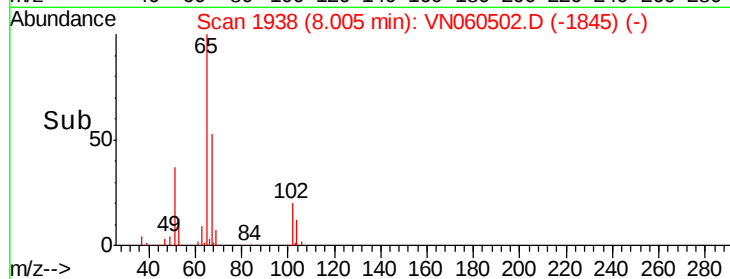
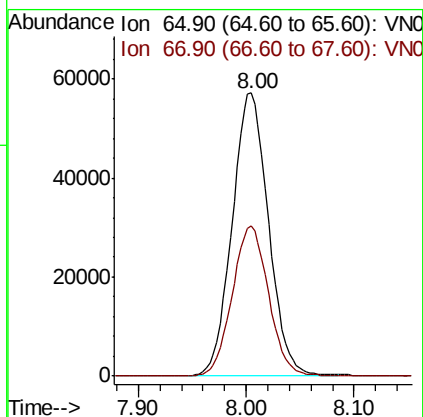
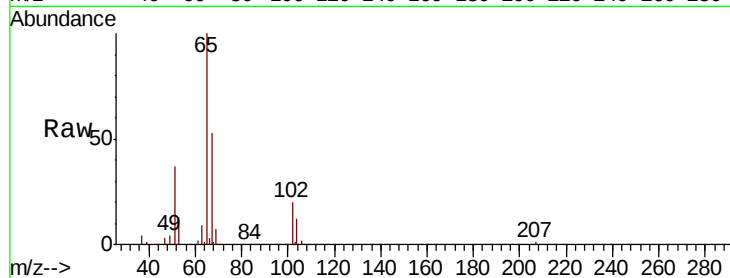




#33
 1,2-Dichloroethane-d4
 Concen: 50.684 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060502.D
 Acq: 13 Mar 2020 15:04

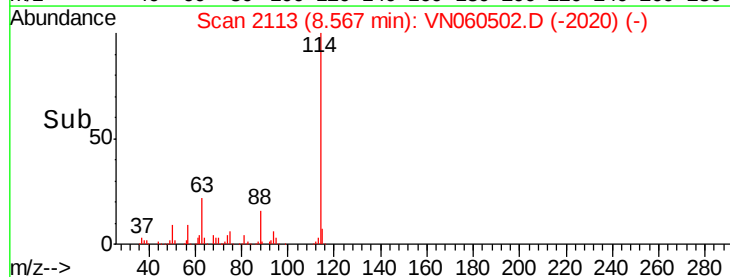
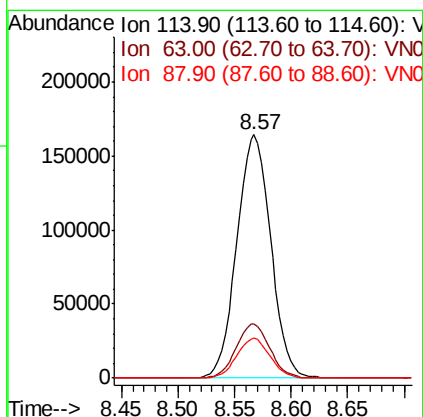
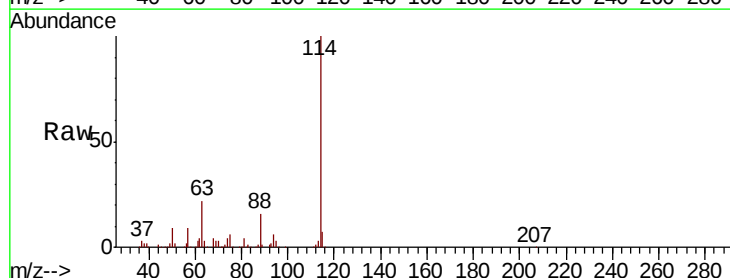
Instrument :
 MSVOA_N
 ClientSampleId :

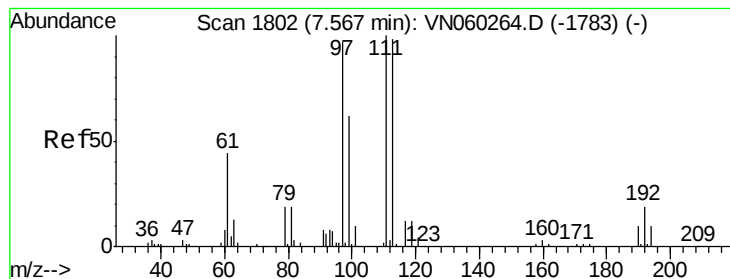
Tot Ion: 65 Resp: 133968
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060502.D
 Acq: 13 Mar 2020 15:04

Tgt Ion: 114 Resp: 344187
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.2
 88 16.3 0.0 31.6





#35

Dibromofluoromethane

Concen: 64.011 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :
MSVOA_N
ClientSampled :

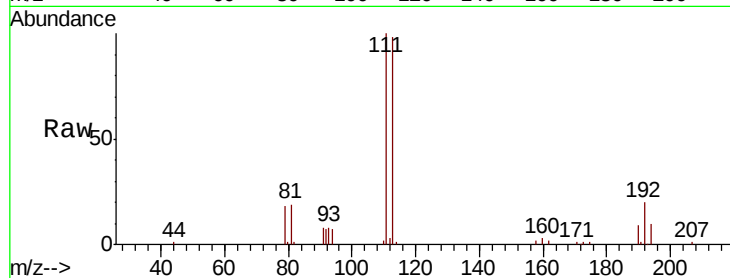
Tot Ion:113 Resp: 102265

Ion Ratio Lower Upper

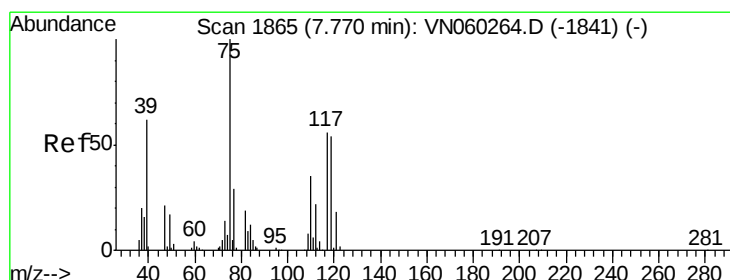
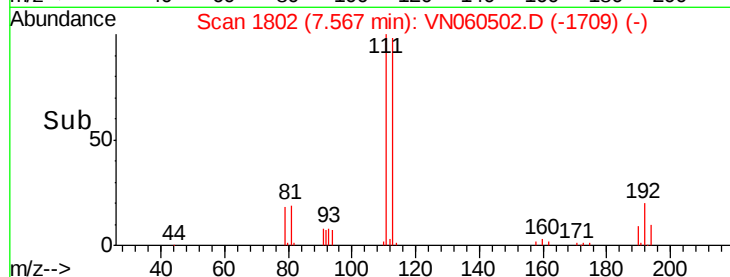
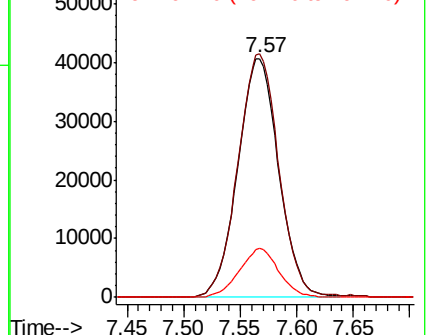
113 100

111 101.9 82.4 123.6

192 19.8 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.918 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

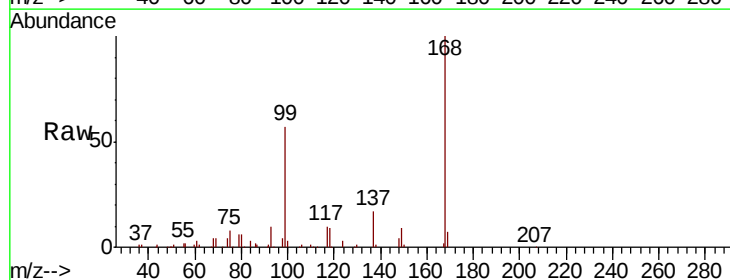
Tgt Ion: 75 Resp: 16132

Ion Ratio Lower Upper

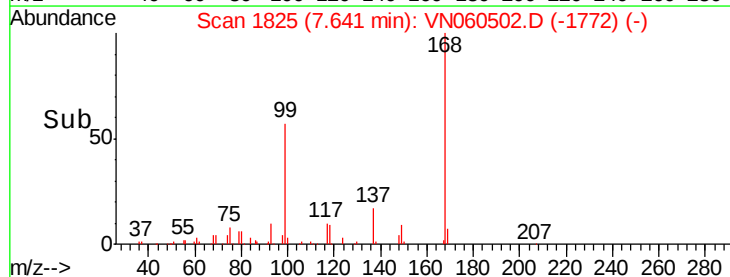
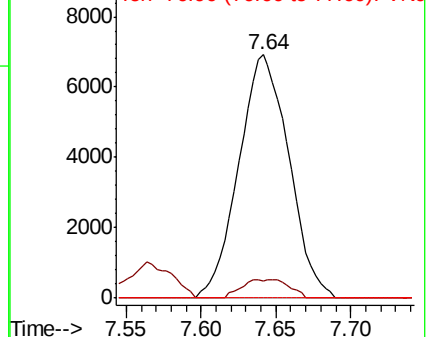
75 100

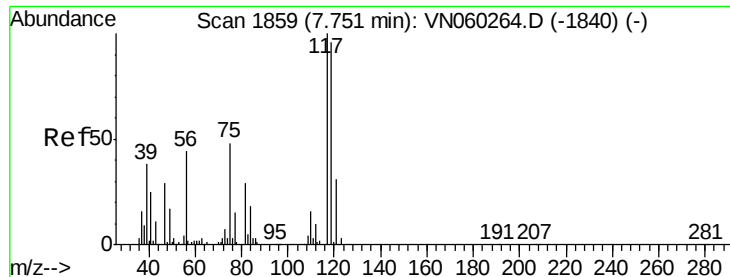
110 7.1 17.3 52.0#

77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.278 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

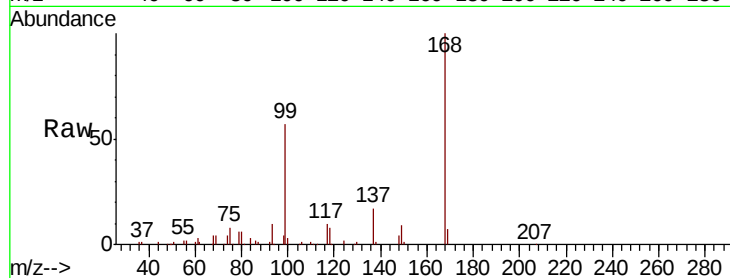
Tot Ion:117 Resp: 20050

Ion Ratio Lower Upper

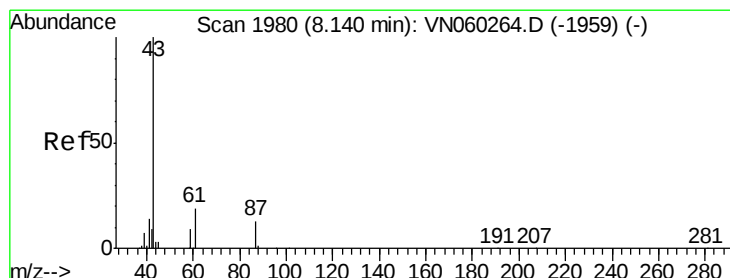
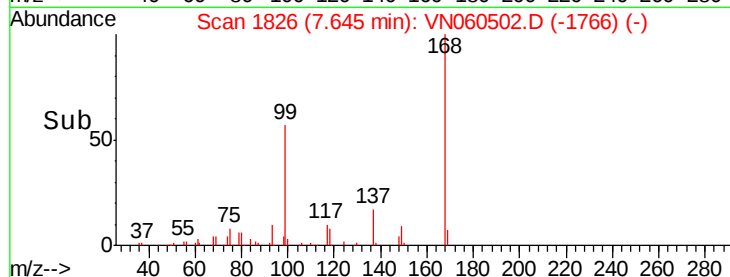
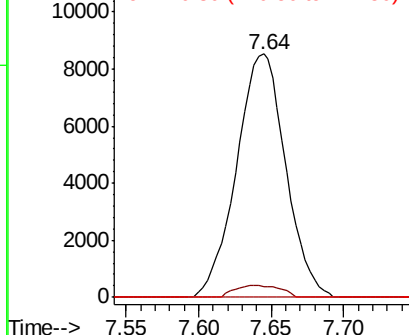
117 100

119 4.4 76.7 115.1#

121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 12.404 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

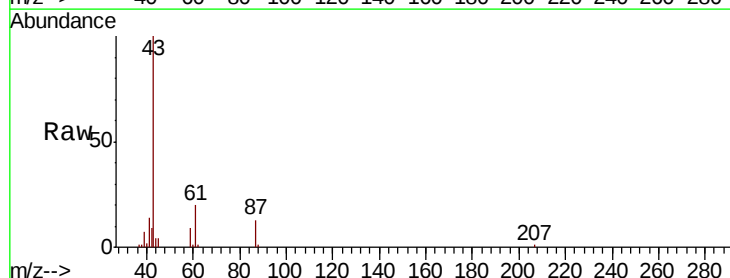
Tgt Ion: 43 Resp: 67448

Ion Ratio Lower Upper

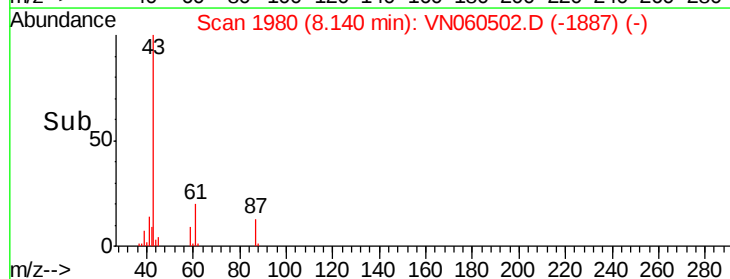
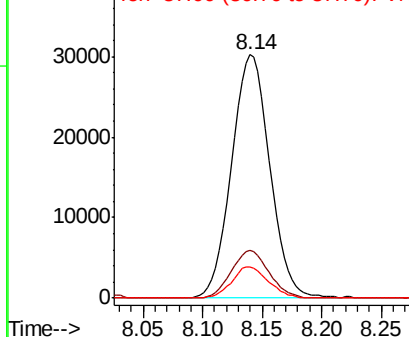
43 100

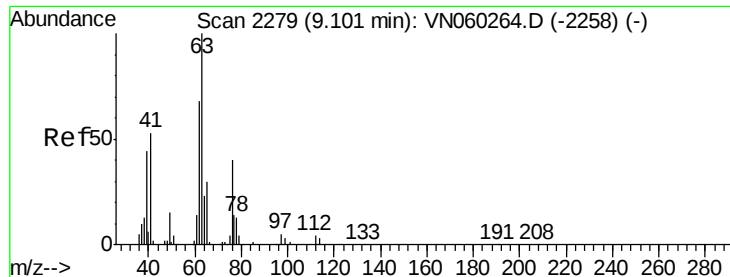
61 19.1 20.9 31.3#

87 12.1 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.467 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

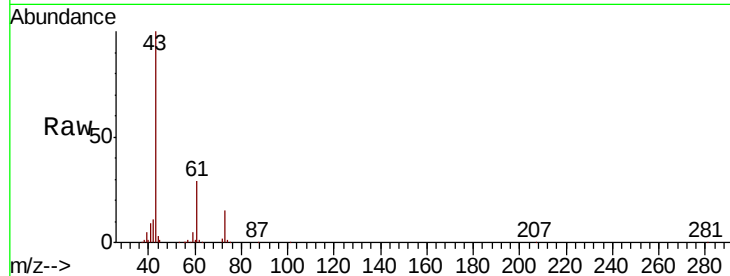
ClientSampleId :

Tot Ion: 63 Resp: 1166

Ion Ratio Lower Upper

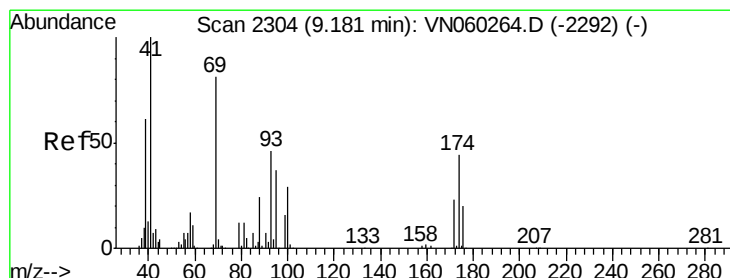
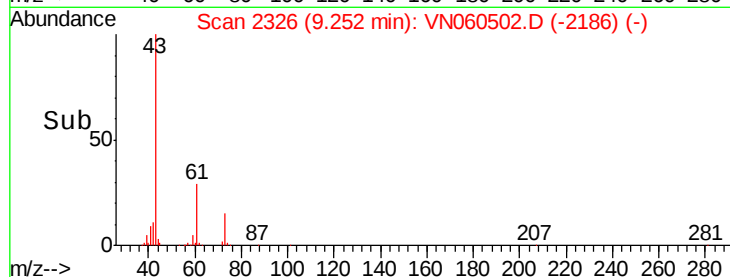
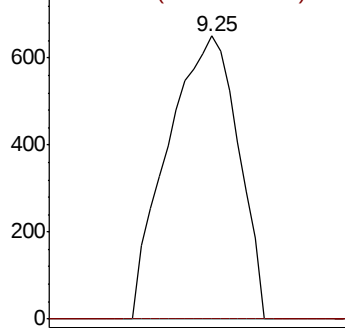
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.310 ug/l

RT: 9.16 min Scan# 2296

Delta R.T. -0.03 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

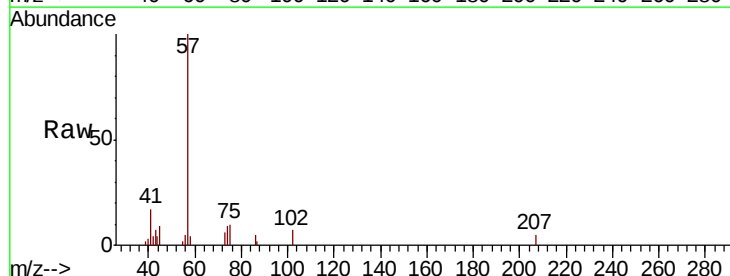
Tgt Ion: 41 Resp: 3248

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

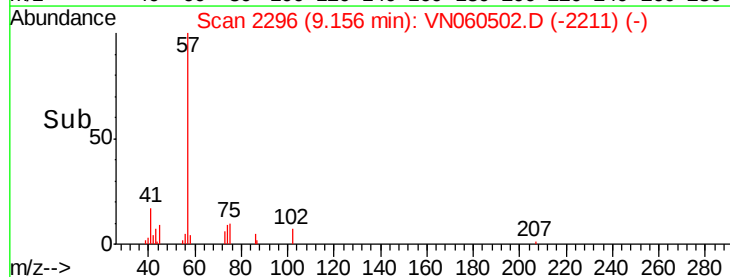
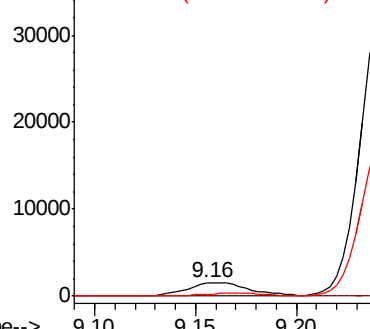
39 0.0 50.1 75.1#

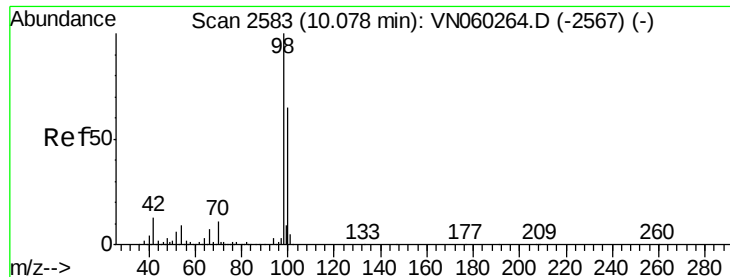


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.458 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

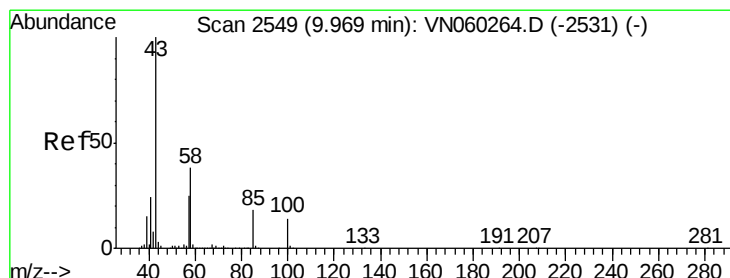
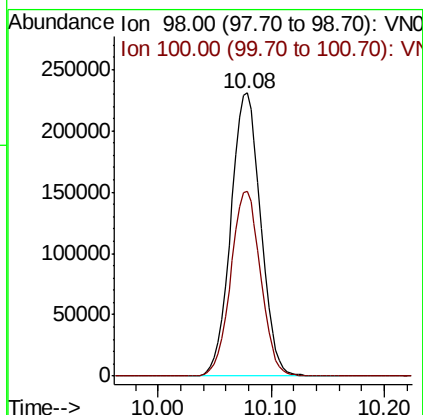
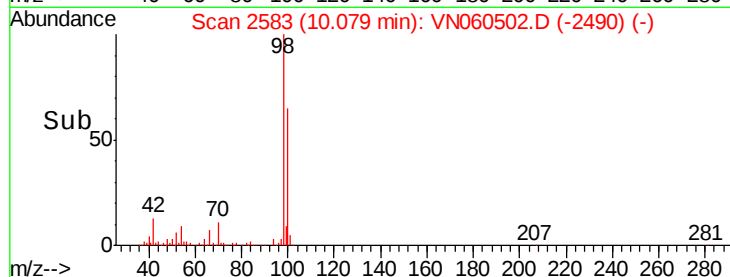
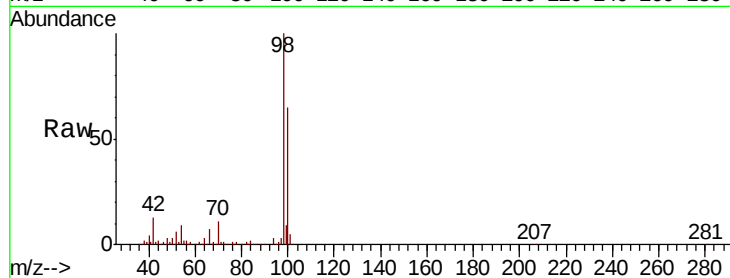
ClientSampled :

Tot Ion: 98 Resp: 424155

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.681 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060502.D

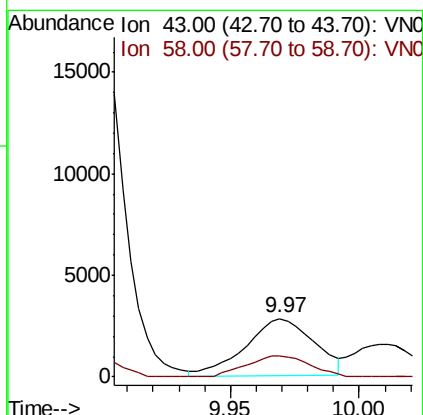
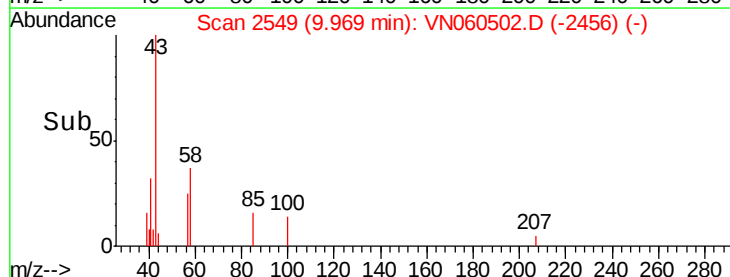
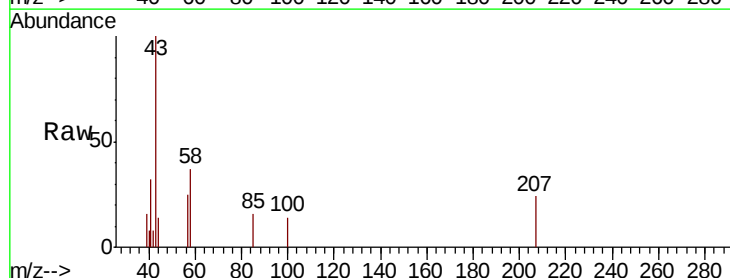
Acq: 13 Mar 2020 15:04

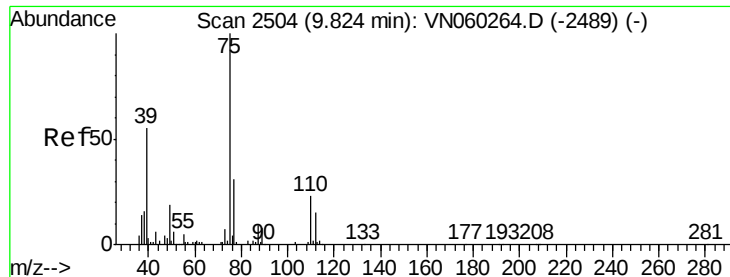
Tgt Ion: 43 Resp: 5183

Ion Ratio Lower Upper

43 100

58 34.7 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 6.848 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

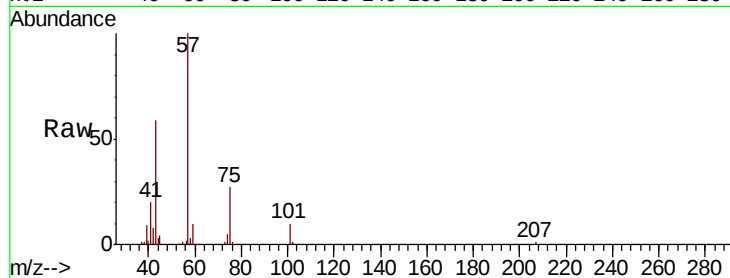
Tot Ion: 75 Resp: 28643

Ion Ratio Lower Upper

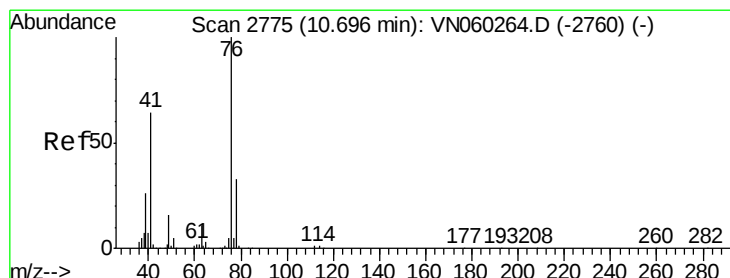
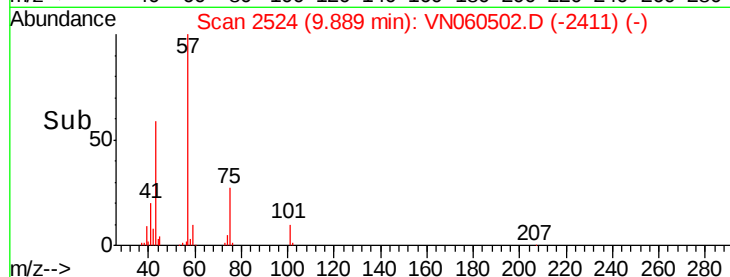
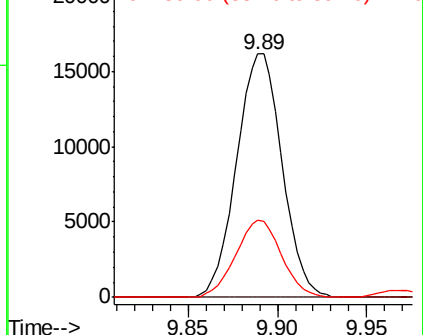
75 100

77 0.0 24.8 37.2#

39 31.5 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.185 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060502.D

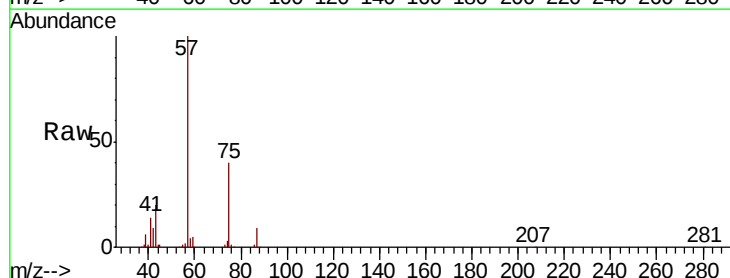
Acq: 13 Mar 2020 15:04

Tgt Ion: 76 Resp: 4661

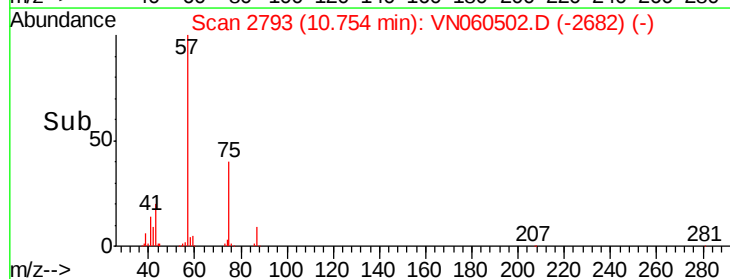
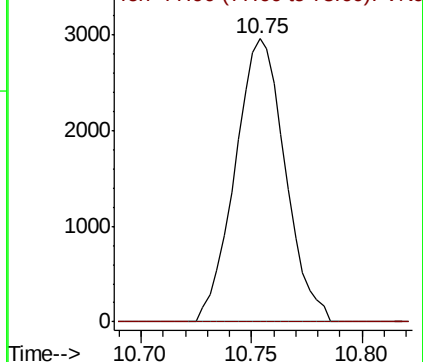
Ion Ratio Lower Upper

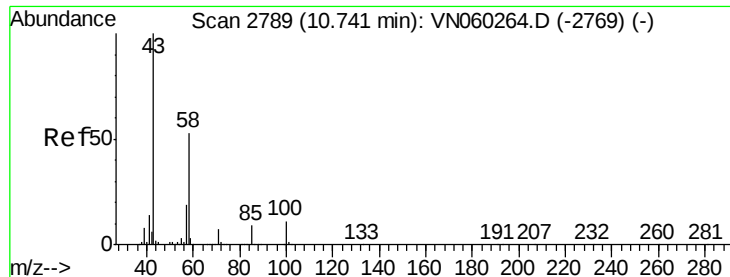
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

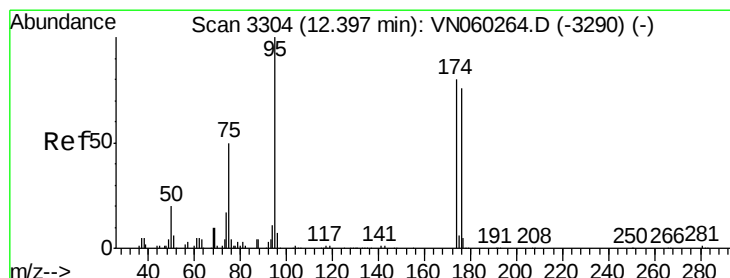
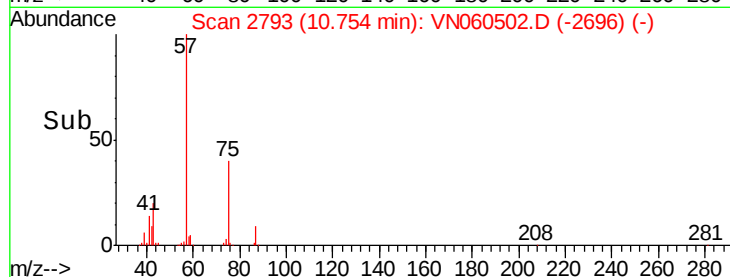
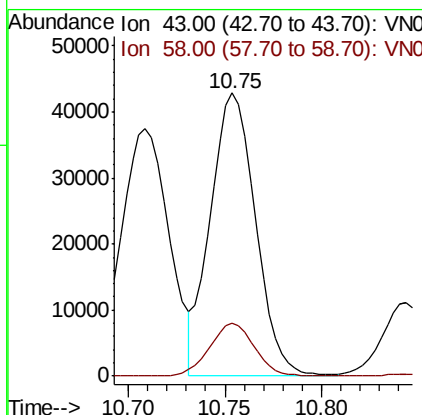
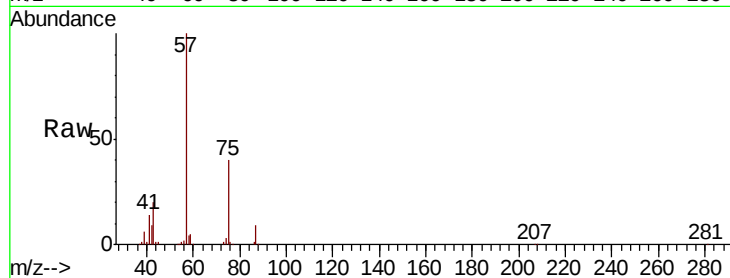




#59
2-Hexanone
Concen: 30.645 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060502.D
Acq: 13 Mar 2020 15:04

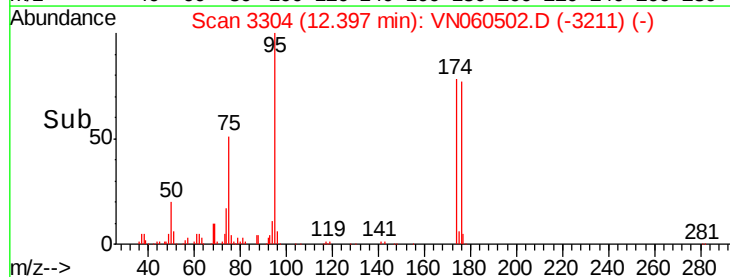
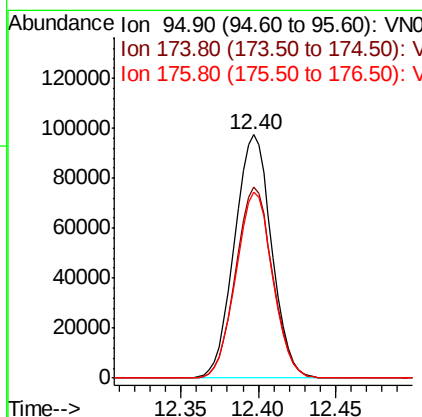
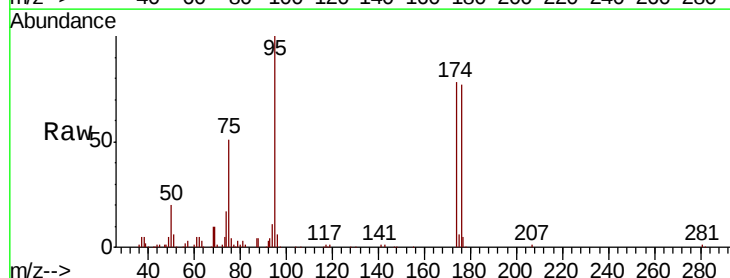
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 69369
Ion Ratio Lower Upper
43 100
58 18.6 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 53.044 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060502.D
Acq: 13 Mar 2020 15:04

Tgt Ion: 95 Resp: 162583
Ion Ratio Lower Upper
95 100
174 78.0 0.0 159.2
176 75.9 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampled :

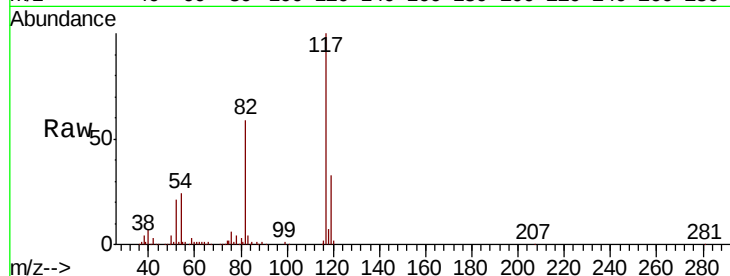
Tot Ion:117 Resp: 325224

Ion Ratio Lower Upper

117 100

82 59.4 45.8 68.6

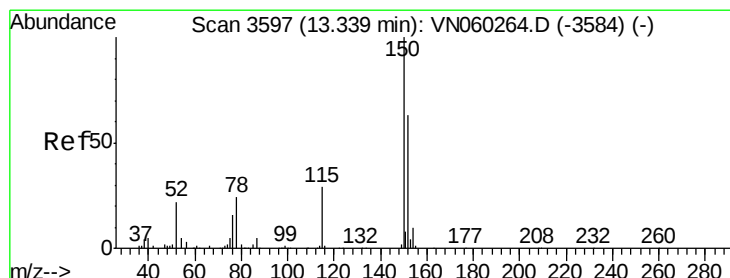
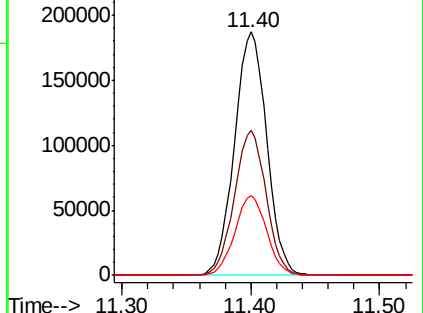
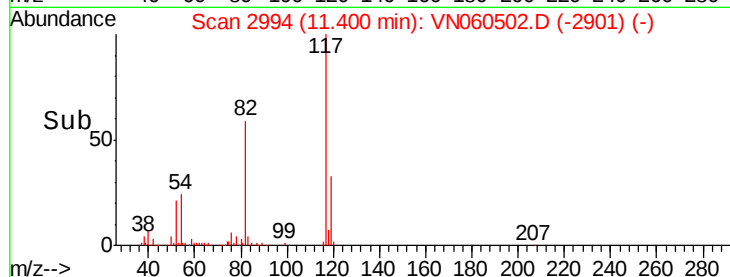
119 32.8 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

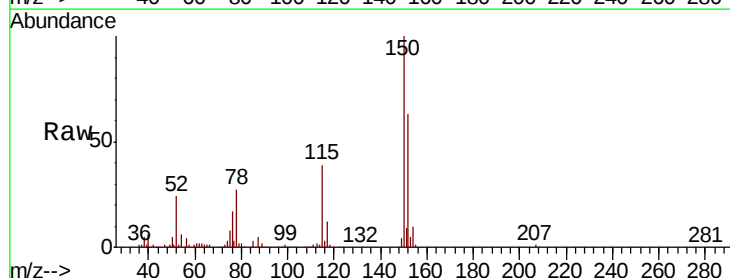
Tgt Ion:152 Resp: 153024

Ion Ratio Lower Upper

152 100

115 60.0 30.0 90.0

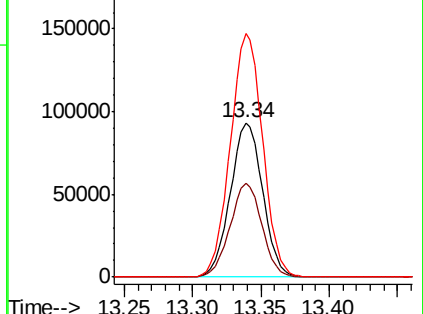
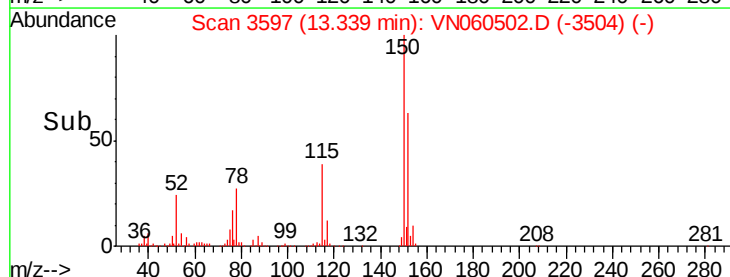
150 158.3 0.0 349.6

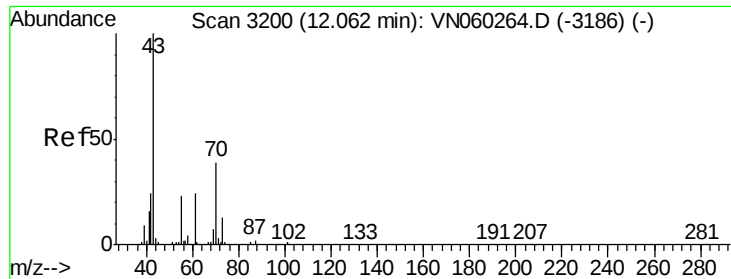


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.494 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 2448

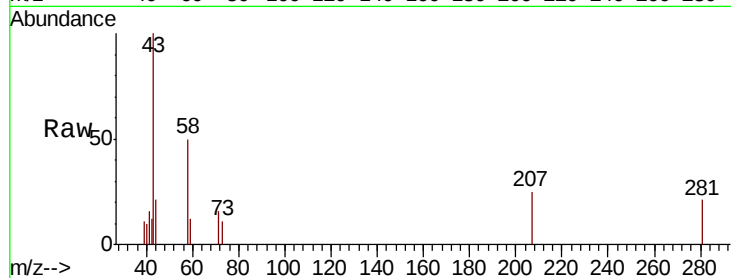
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

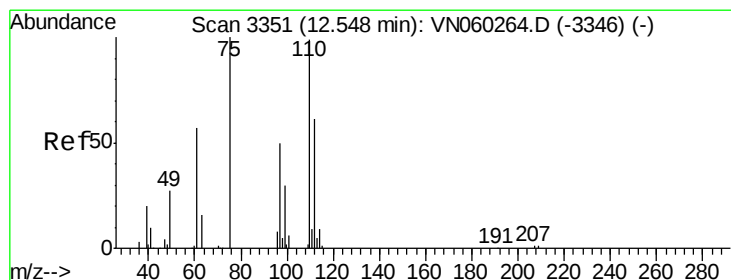
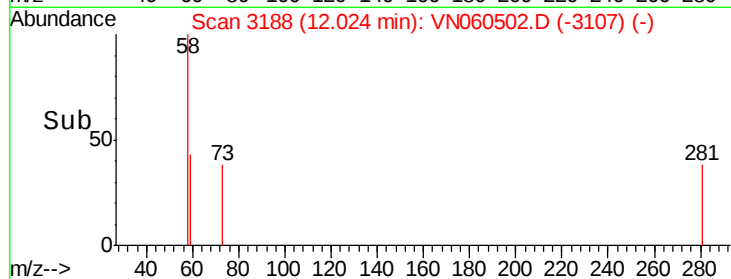
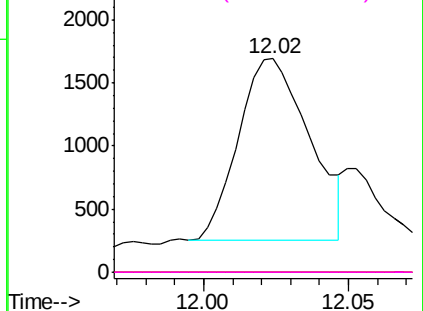


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.587 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060502.D

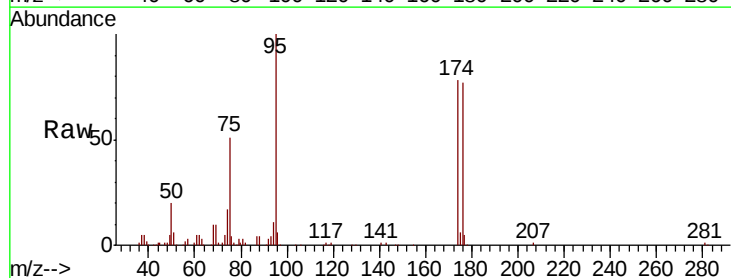
Acq: 13 Mar 2020 15:04

Tgt Ion: 75 Resp: 82547

Ion Ratio Lower Upper

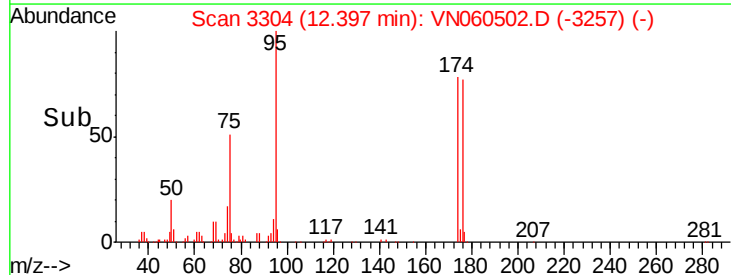
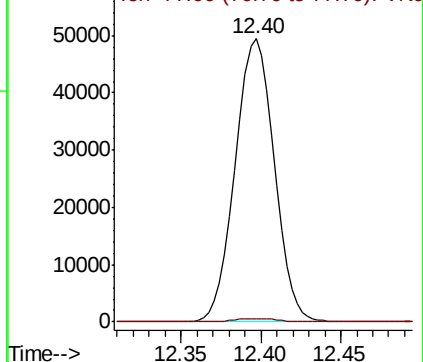
75 100

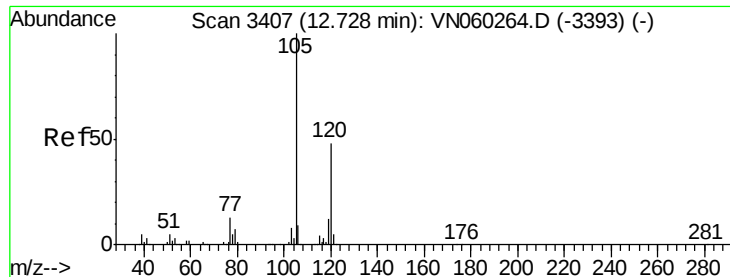
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.487 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

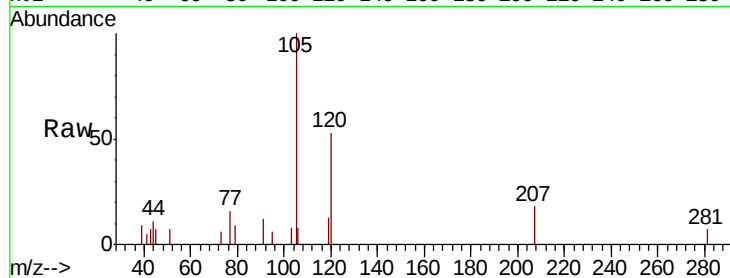
ClientSampled :

Tot Ion:105 Resp: 4650

Ion Ratio Lower Upper

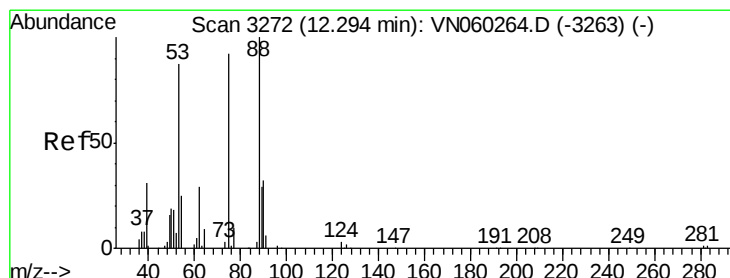
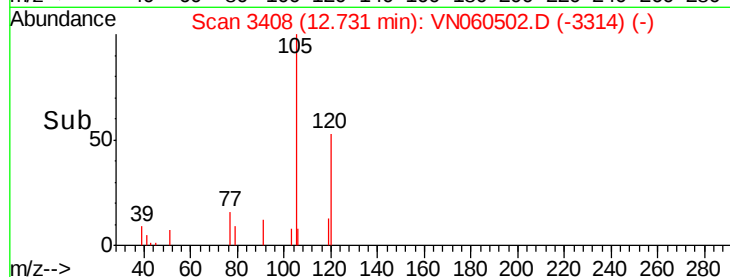
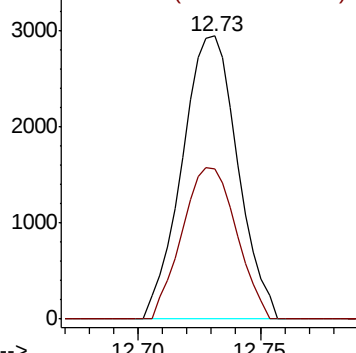
105 100

120 52.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.871 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

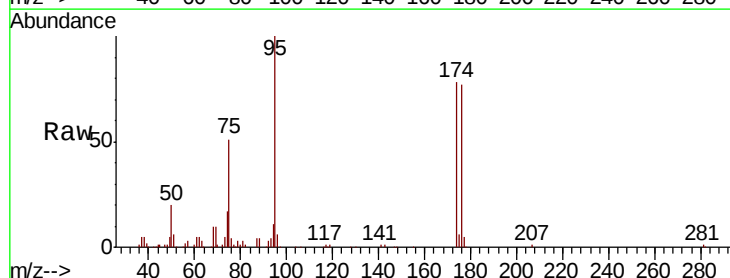
Tgt Ion: 75 Resp: 82547

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

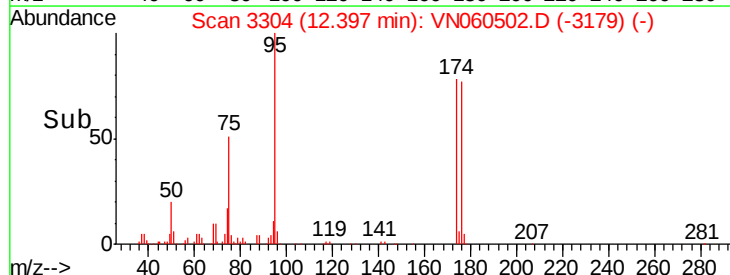
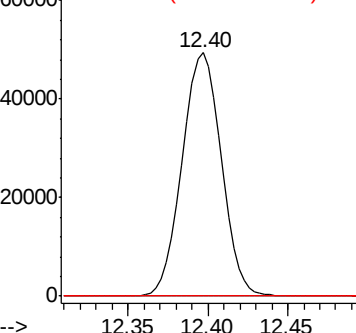
89 0.0 57.1 85.7#

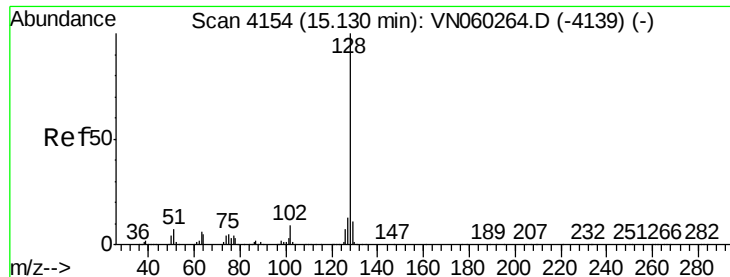


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

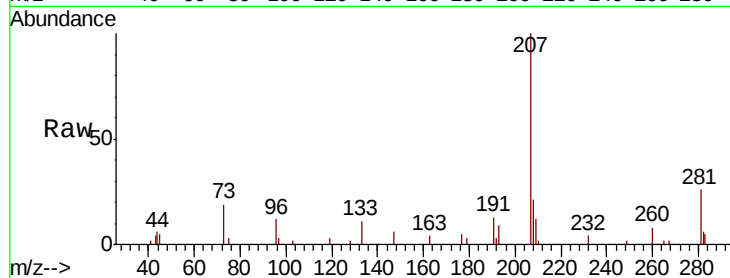
Lab File: VN060502.D

Acq: 13 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :



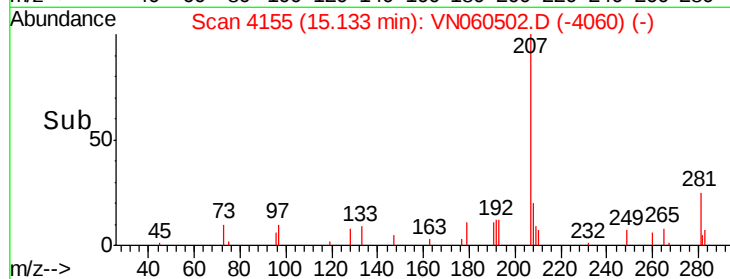
Tot Ion:128 Resp: 126

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

