

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022620\
 Data File : VN060257.D
 Acq On : 26 Feb 2020 17:28
 Operator : JC/MD
 Sample : PB127076ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 27 04:35:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	201383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	328148	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	312091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	155664	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	128810	52.57	ug/l	0.00
Spiked Amount						
			Recovery	=	105.14%	
35) Dibromofluoromethane	7.57	113	89978	44.61	ug/l	0.00
Spiked Amount						
			Recovery	=	89.22%	
50) Toluene-d8	10.08	98	404228	50.89	ug/l	0.00
Spiked Amount						
			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.40	95	155964	53.43	ug/l	0.00
Spiked Amount						
			Recovery	=	106.86%	

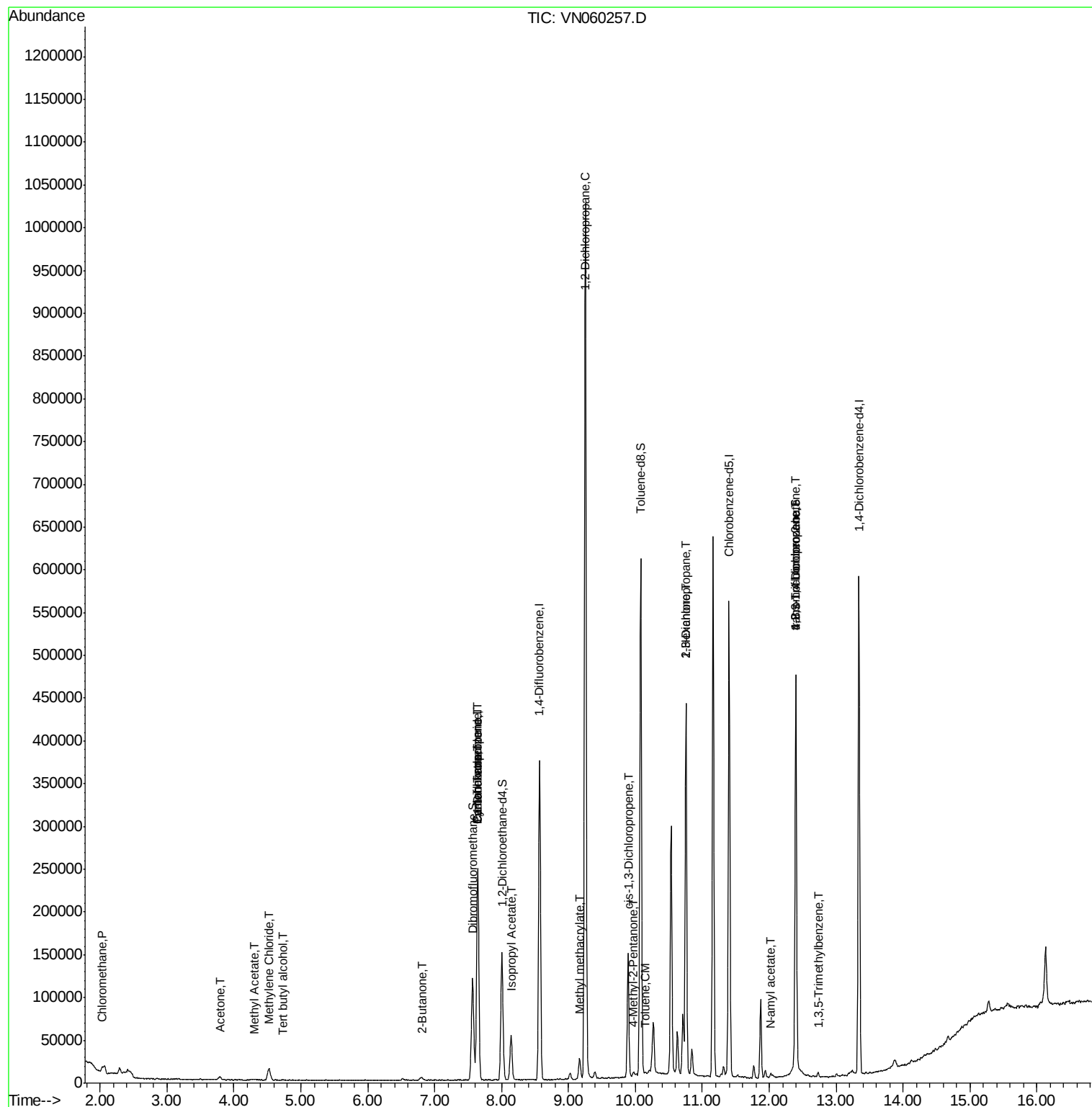
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	534	0.223	ug/l #	54
11) Tert butyl alcohol	4.73	59	717	1.955	ug/l #	72
16) Acetone	3.79	43	6440	6.025	ug/l	99
18) Methyl Acetate	4.30	43	2513	1.252	ug/l #	78
20) Methylene Chloride	4.53	84	10146	4.758	ug/l	96
25) 2-Butanone	6.81	43	4383	3.260	ug/l	98
31) Cyclohexane	7.64	56	4234	1.222	ug/l #	19
36) 1,1-Dichloropropene	7.64	75	15901	5.232	ug/l #	48
38) Carbon Tetrachloride	7.64	117	19633	5.948	ug/l #	15
43) Isopropyl Acetate	8.14	43	60559	12.897	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1188	0.532	ug/l #	43
48) Methyl methacrylate	9.16	41	3579	1.699	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	4045	1.488	ug/l	91
52) Toluene	10.15	92	1227	0.212	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	26523	6.958	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4306	1.157	ug/l #	43
59) 2-Hexanone	10.75	43	66502	31.674	ug/l #	51
74) N-amyl acetate	12.02	43	4366	1.042	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	81382	27.326	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2683	0.278	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	81382	66.908	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.25	75	62	Below Cal	#	1

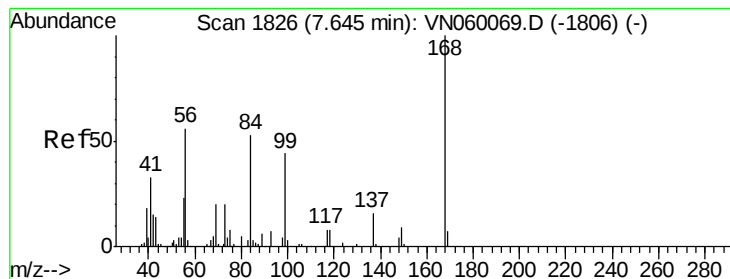
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 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: VN060257.D

Acq: 26 Feb 2020 17:28

Instrument :

MSVOA_N

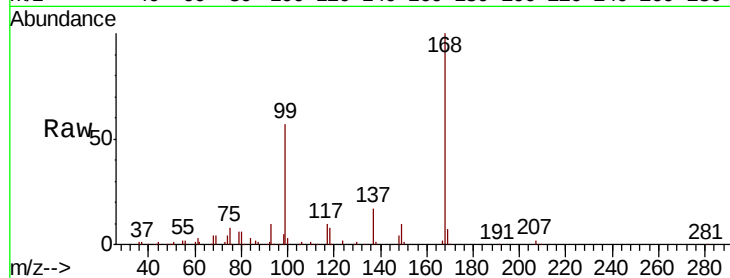
ClientSampleId :

Tot Ion:168 Resp: 201383

Ion Ratio Lower Upper

168 100

99 56.8 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): VN060069.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN060069.D (-1806) (-)

7.64

80000

60000

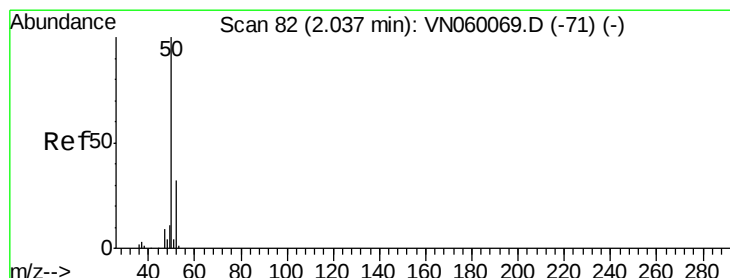
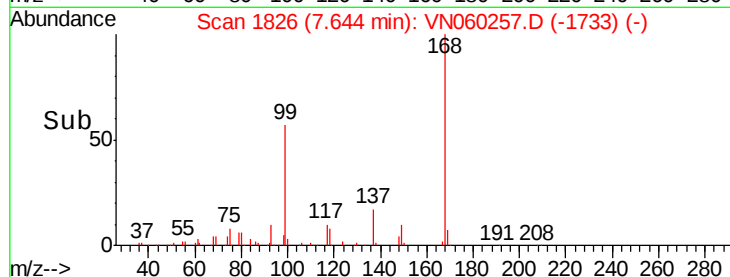
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#3

Chloromethane

Concen: 0.223 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060257.D

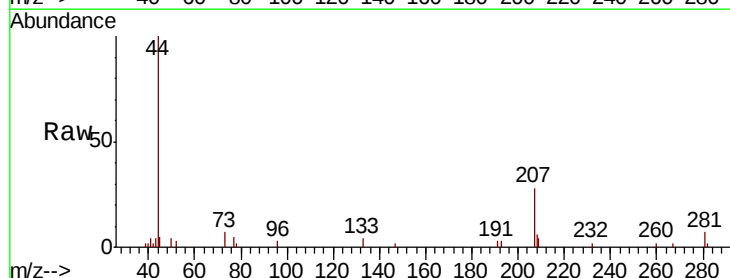
Acq: 26 Feb 2020 17:28

Tgt Ion: 50 Resp: 534

Ion Ratio Lower Upper

50 100

52 57.7 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN060069.D (-71) (-)

Ion 51.90 (51.60 to 52.60): VN060069.D (-71) (-)

2.04

400

300

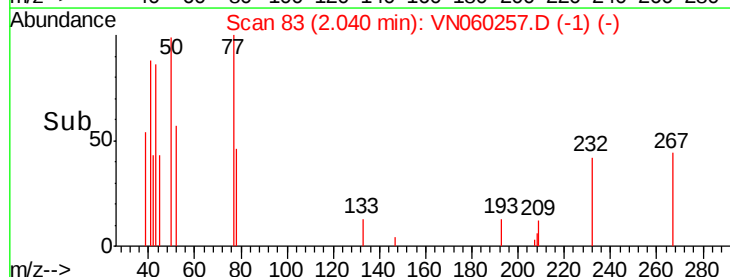
200

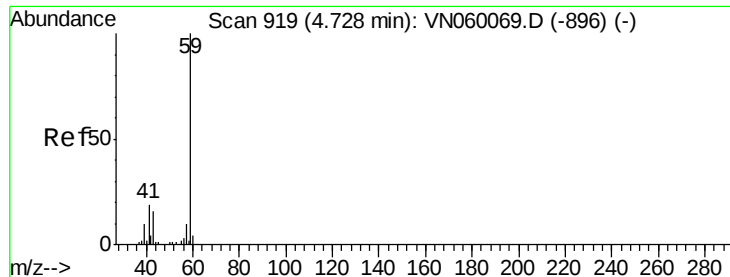
100

0

2.02 2.04 2.06

Time-->

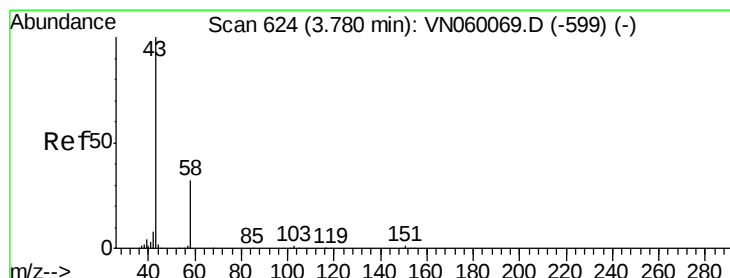
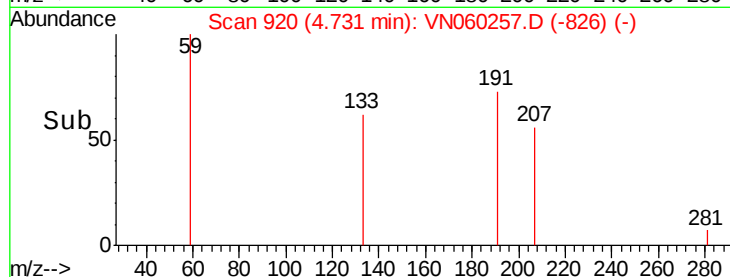
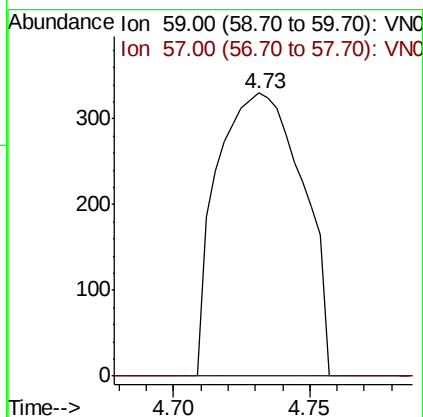
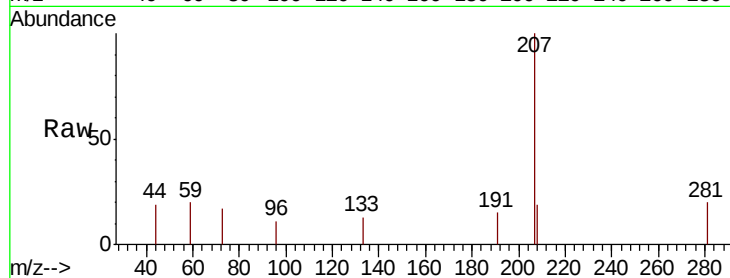




#11
Tert butyl alcohol
Concen: 1.955 ug/l
RT: 4.73 min Scan# 920
Delta R.T. 0.00 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

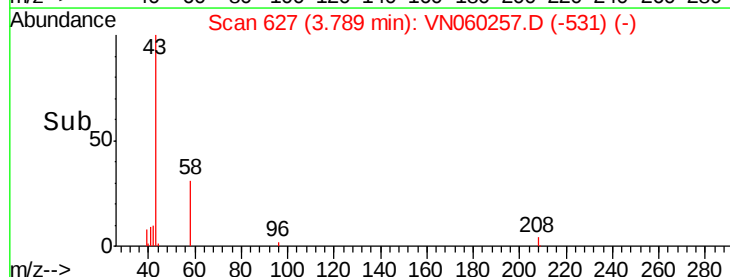
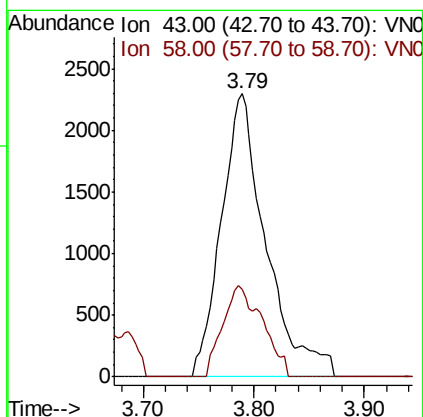
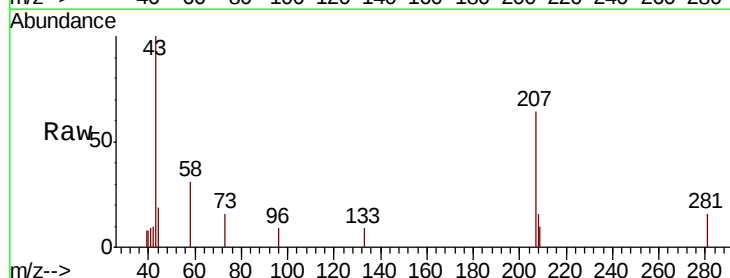
Instrument :
MSVOA_N
ClientSampled :

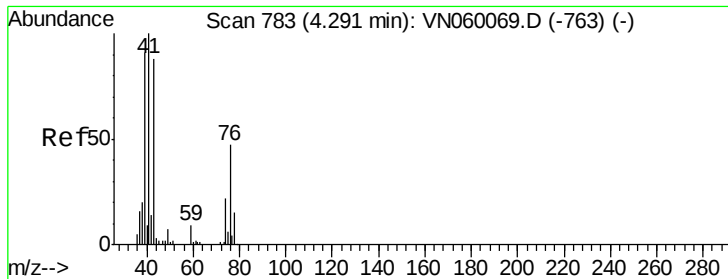
Tot Ion: 59 Resp: 717
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 6.025 ug/l
RT: 3.79 min Scan# 627
Delta R.T. 0.01 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

Tgt Ion: 43 Resp: 6440
Ion Ratio Lower Upper
43 100
58 31.1 25.2 37.8

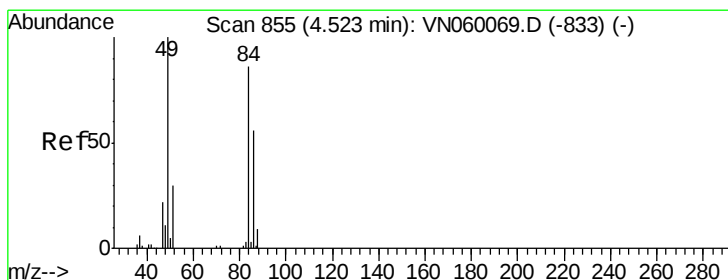
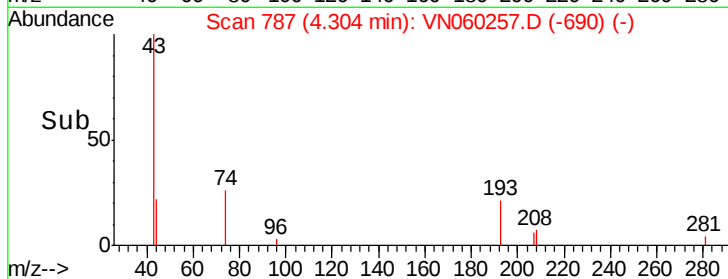
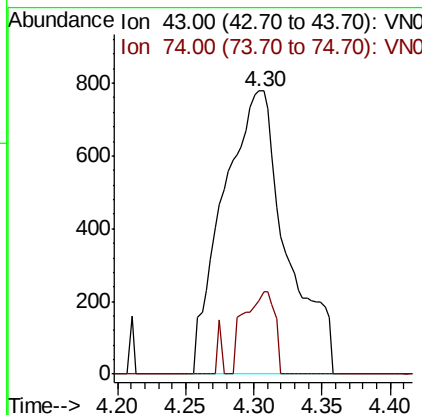
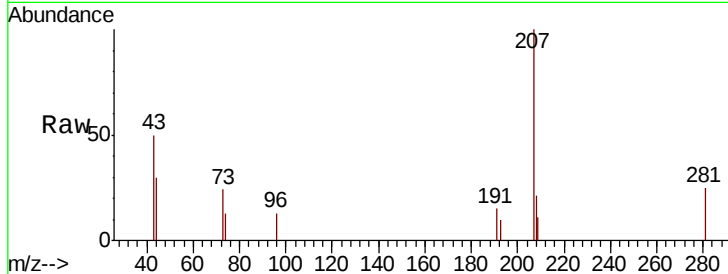




#18
Methyl Acetate
Concen: 1.252 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.01 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

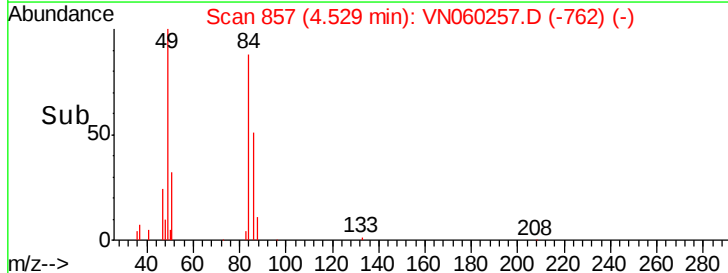
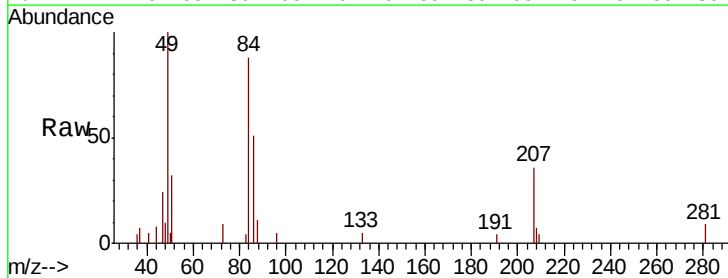
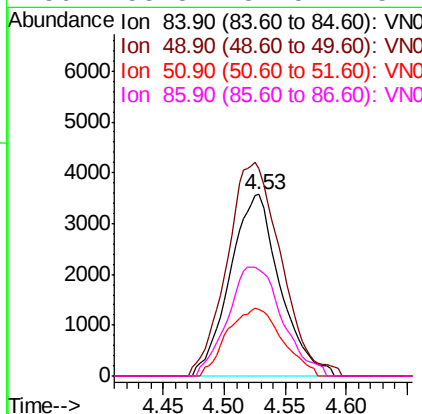
Instrument :
MSVOA_N
ClientSampled :

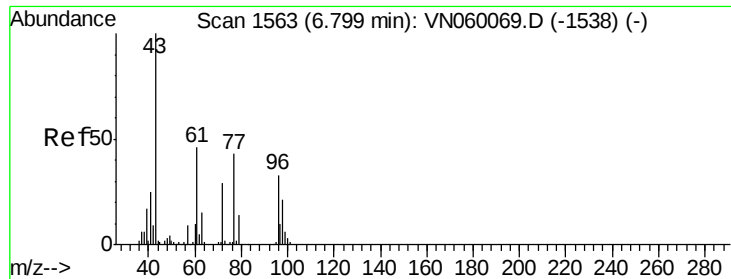
Tot Ion: 43 Resp: 2513
Ion Ratio Lower Upper
43 100
74 14.2 20.3 30.5#



#20
Methylene Chloride
Concen: 4.758 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

Tgt Ion: 84 Resp: 10146
Ion Ratio Lower Upper
84 100
49 114.2 93.4 140.0
51 36.8 28.4 42.6
86 58.8 52.5 78.7

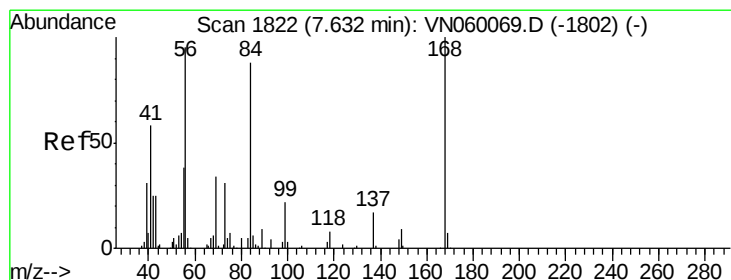
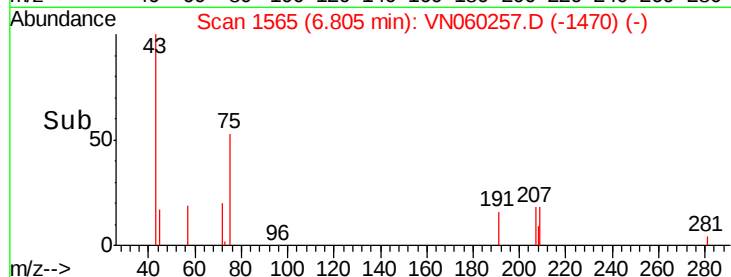
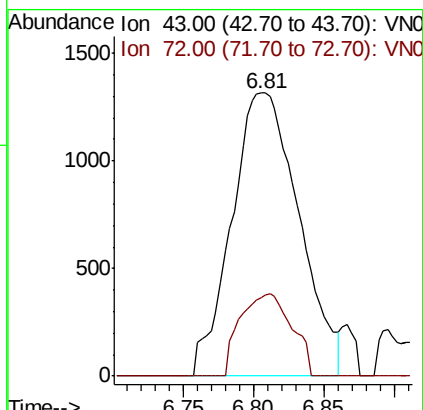
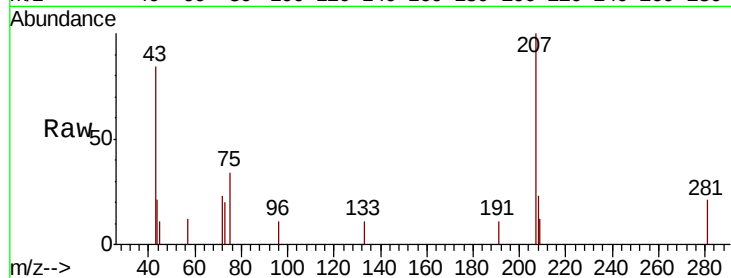




#25
2-Butanone
Concen: 3.260 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

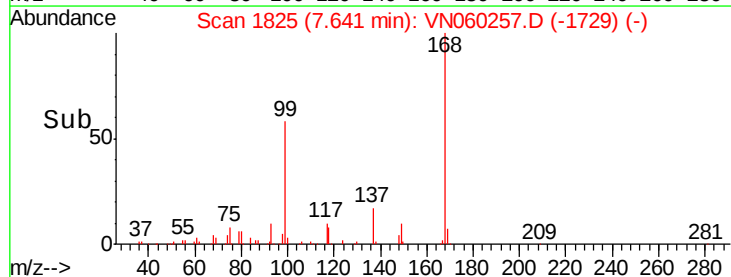
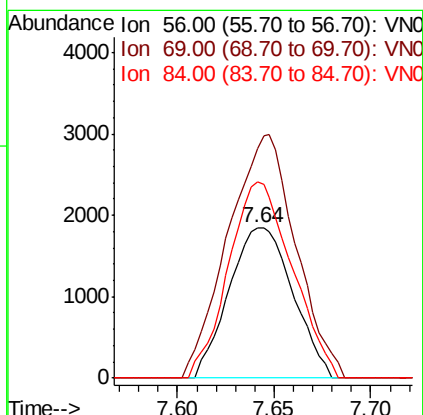
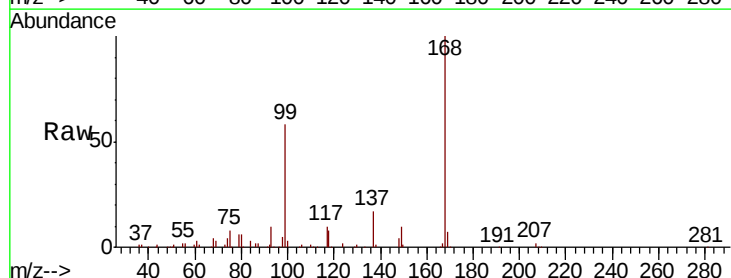
Instrument :
MSVOA_N
ClientSampleId :

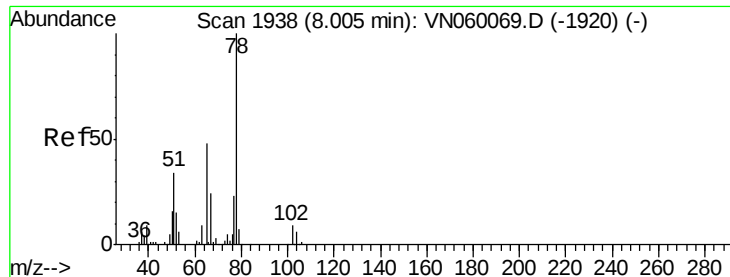
Tot Ion: 43 Resp: 4383
Ion Ratio Lower Upper
43 100
72 27.8 23.3 34.9



#31
Cyclohexane
Concen: 1.222 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

Tgt Ion: 56 Resp: 4234
Ion Ratio Lower Upper
56 100
69 141.5 28.3 42.5#
84 130.7 72.6 108.8#

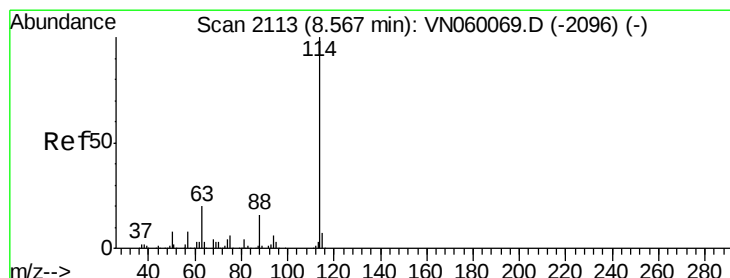
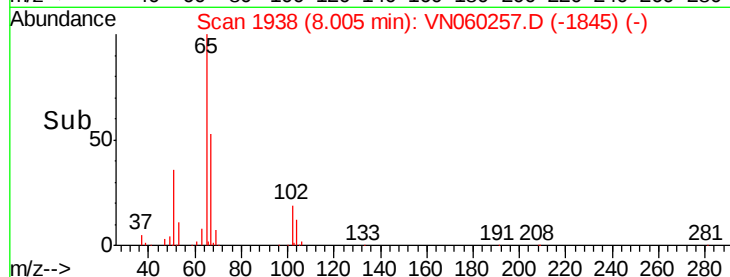
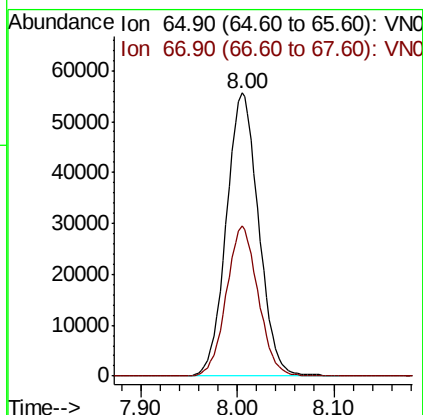
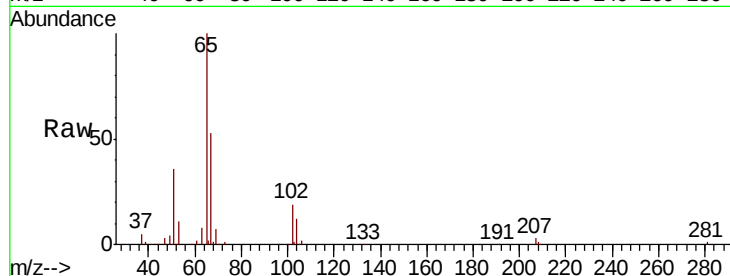




#33
 1,2-Dichloroethane-d4
 Concen: 52.565 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060257.D
 Acq: 26 Feb 2020 17:28

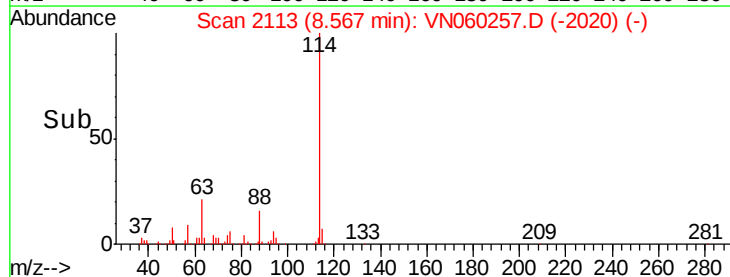
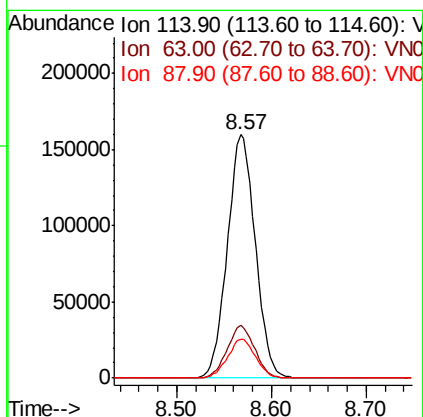
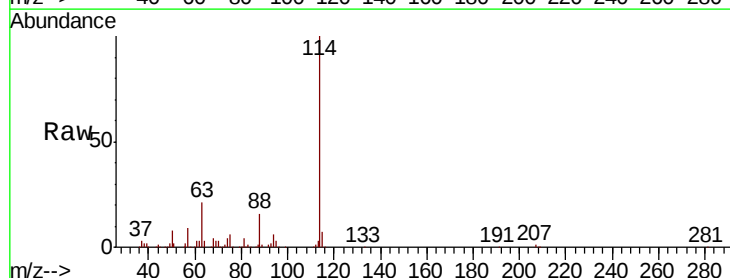
Instrument :
 MSVOA_N
 ClientSampleId :

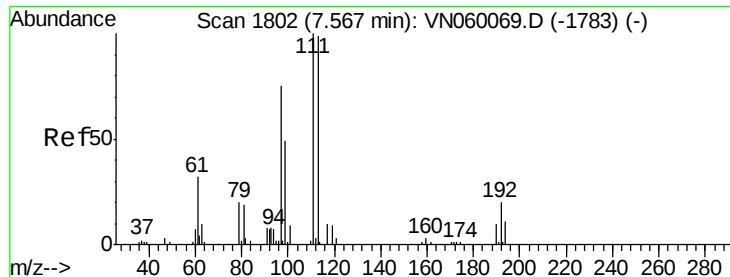
Tot Ion: 65 Resp: 128810
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060257.D
 Acq: 26 Feb 2020 17:28

Tgt Ion: 114 Resp: 328148
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 40.0
 88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 44.607 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

Instrument :
MSVOA_N
ClientSampleId :

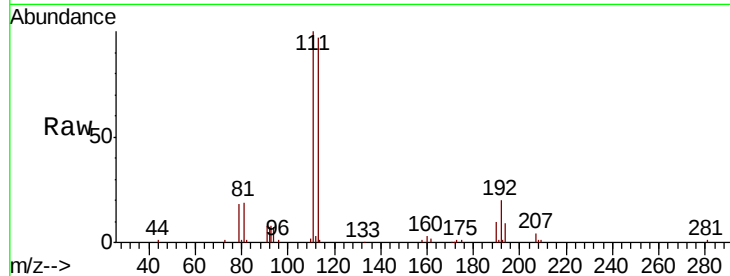
Tot Ion:113 Resp: 89978

Ion Ratio Lower Upper

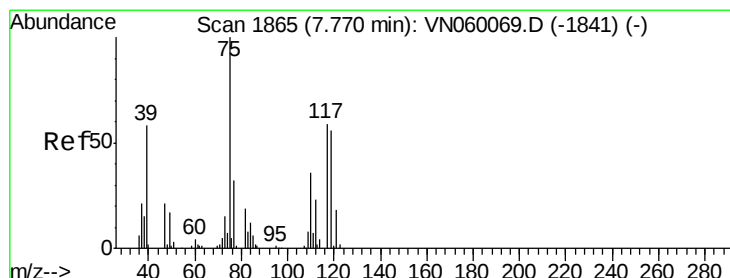
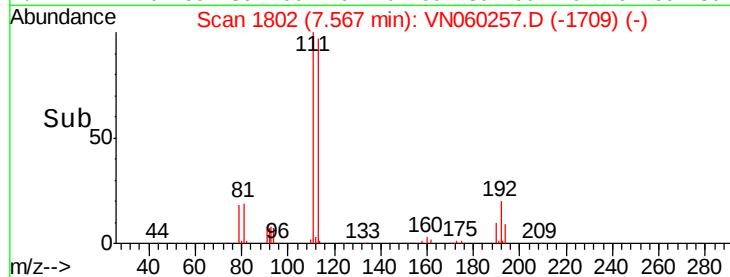
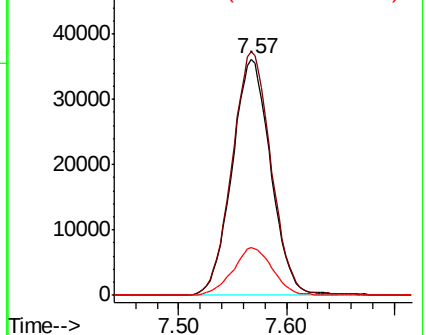
113 100

111 103.8 81.4 122.2

192 20.7 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: 5.232 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

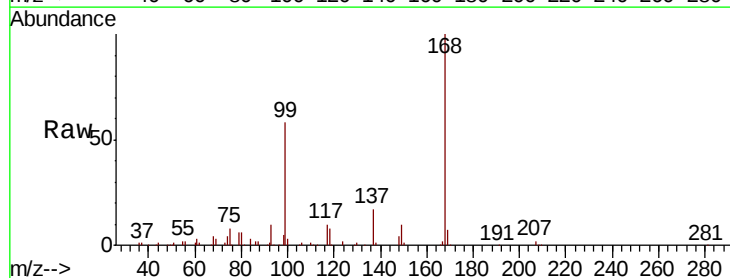
Tgt Ion: 75 Resp: 15901

Ion Ratio Lower Upper

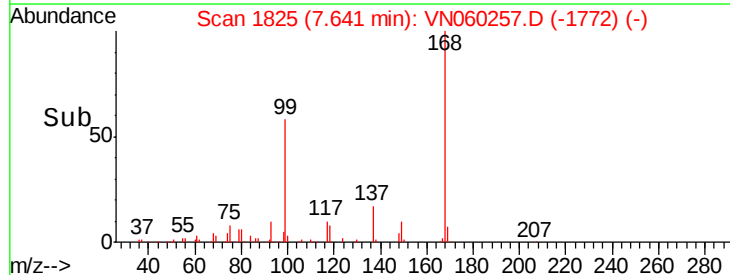
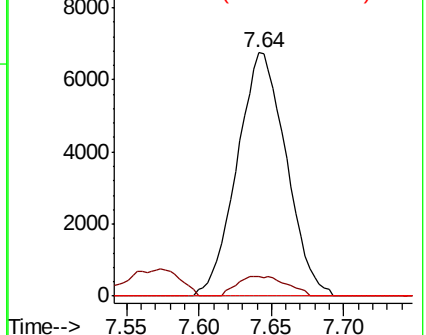
75 100

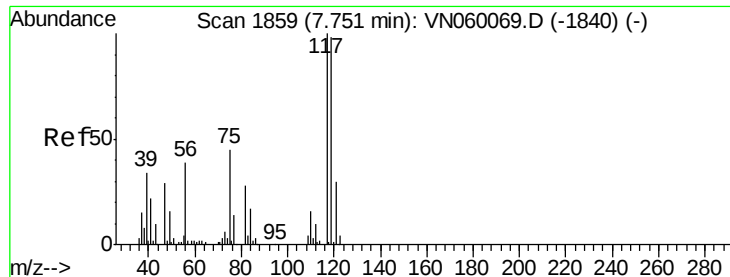
110 8.2 18.1 54.3#

77 0.0 25.1 37.7#



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: 5.948 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

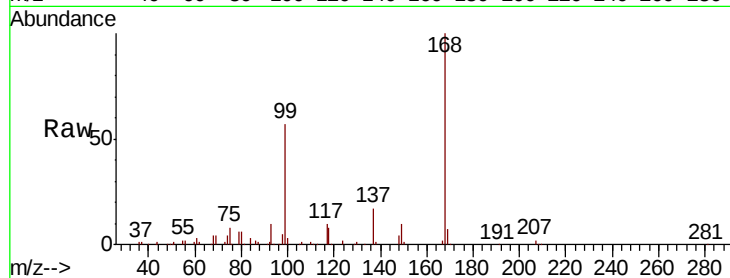
Tot Ion:117 Resp: 19633

Ion Ratio Lower Upper

117 100

119 4.4 78.2 117.4#

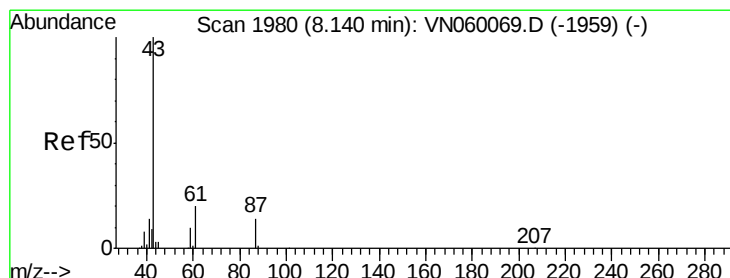
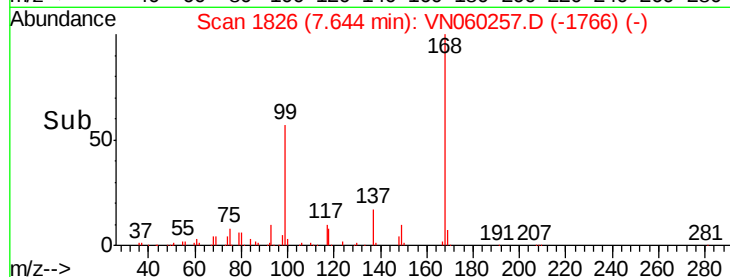
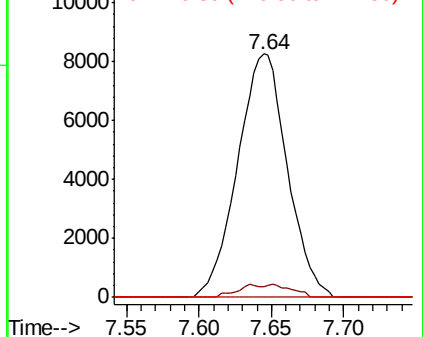
121 0.0 24.2 36.2#



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: 12.897 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

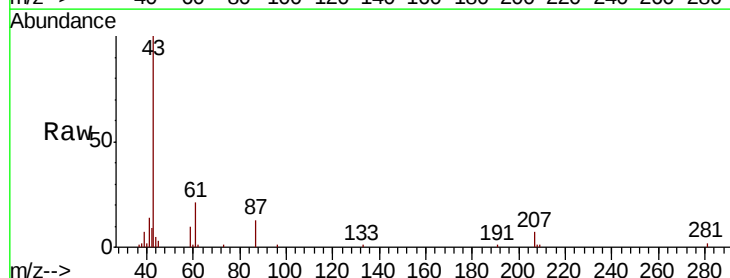
Tgt Ion: 43 Resp: 60559

Ion Ratio Lower Upper

43 100

61 20.2 21.8 32.6#

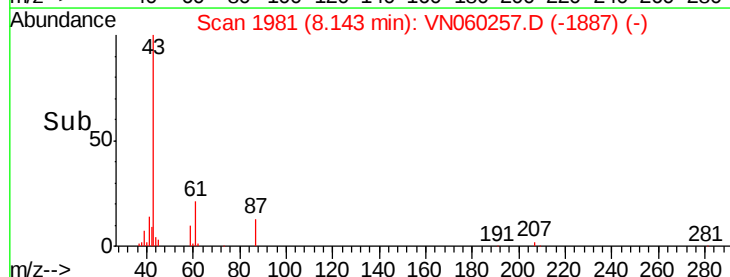
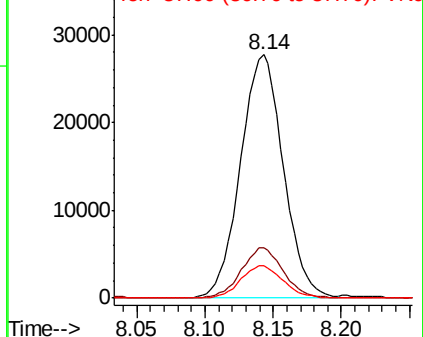
87 13.0 11.4 17.2

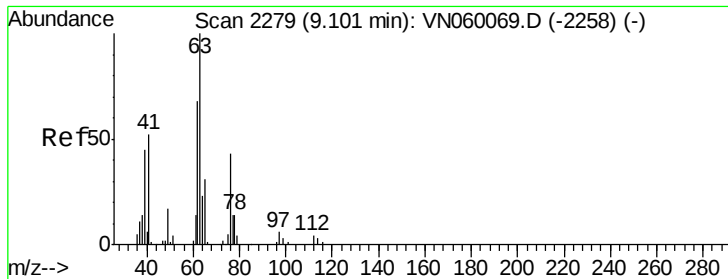


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.532 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

Instrument :

MSVOA_N

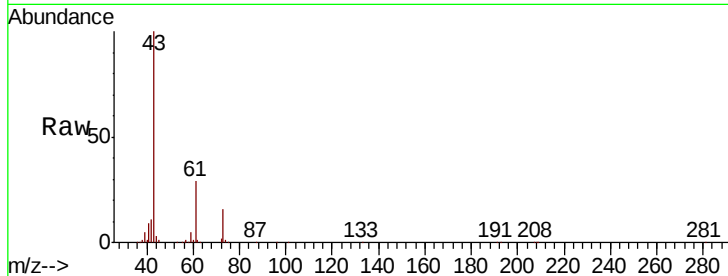
ClientSampleId :

Tot Ion: 63 Resp: 1188

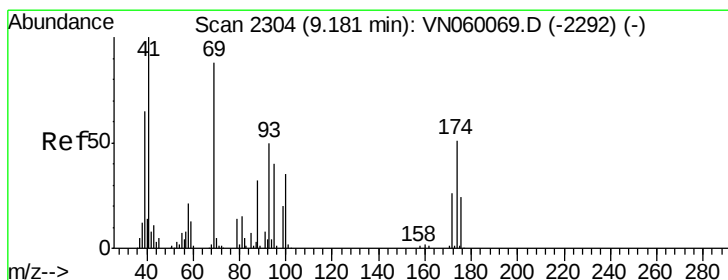
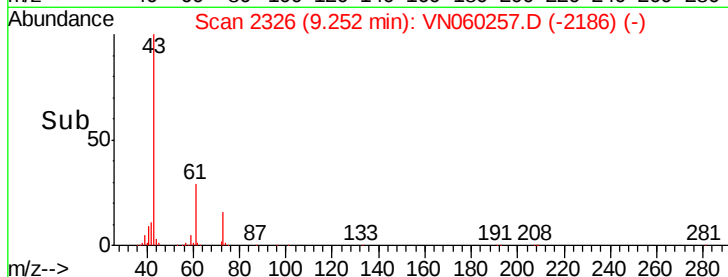
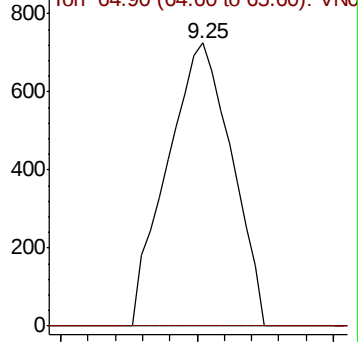
Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN060257.D (-2186) (-)



#48

Methyl methacrylate

Concen: 1.699 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

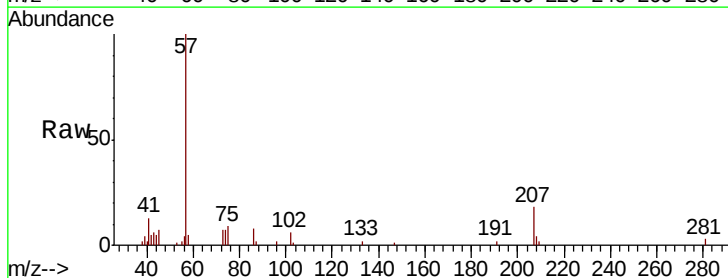
Tgt Ion: 41 Resp: 3579

Ion Ratio Lower Upper

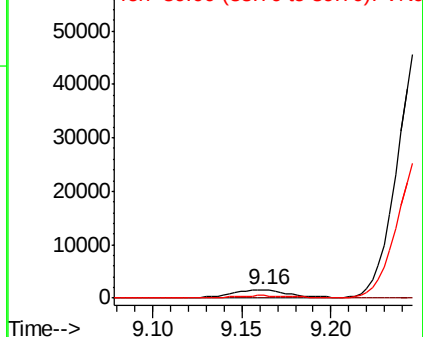
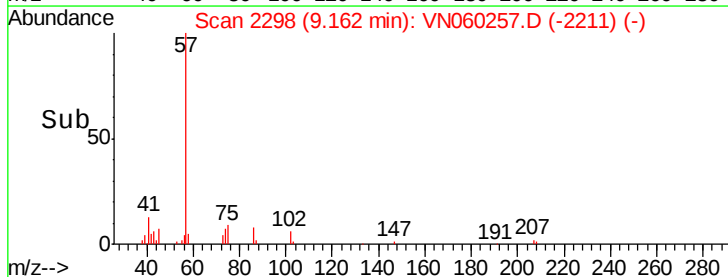
41 100

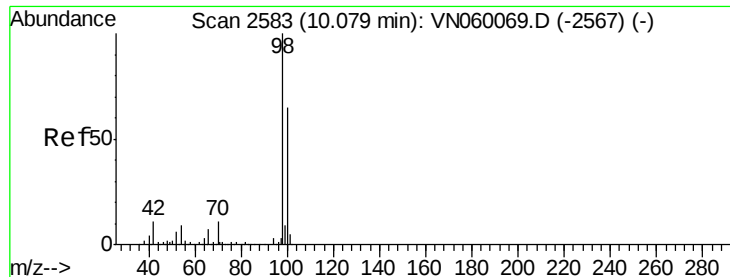
69 0.0 72.0 108.0#

39 0.0 54.1 81.1#



Abundance Ion 41.00 (40.70 to 41.70): VN060257.D (-2211) (-)





#50

Toluene-d8

Concen: 50.889 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

Instrument :

MSVOA_N

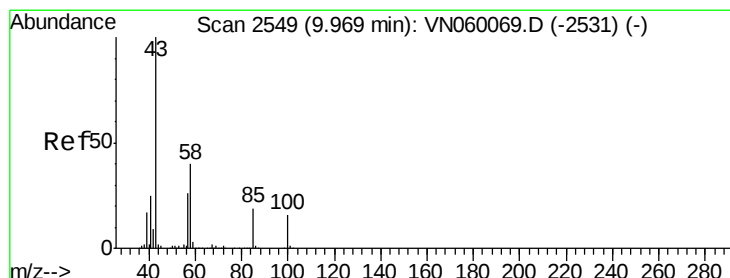
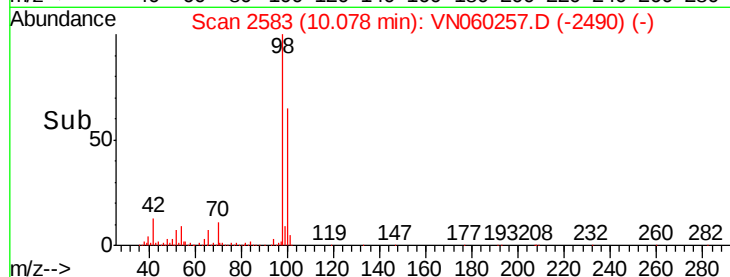
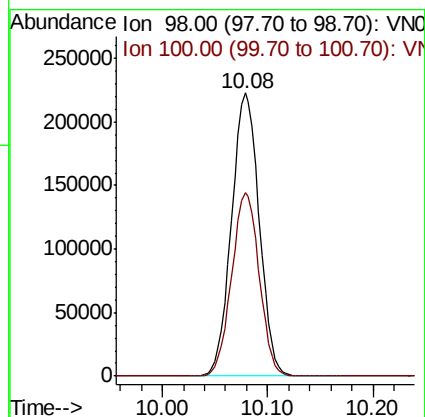
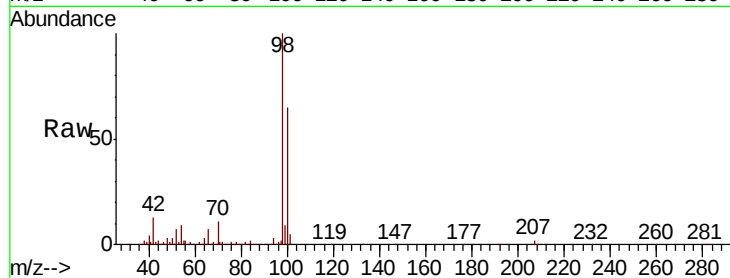
ClientSampled :

Tot Ion: 98 Resp: 404228

Ion Ratio Lower Upper

98 100

100 64.6 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 1.488 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060257.D

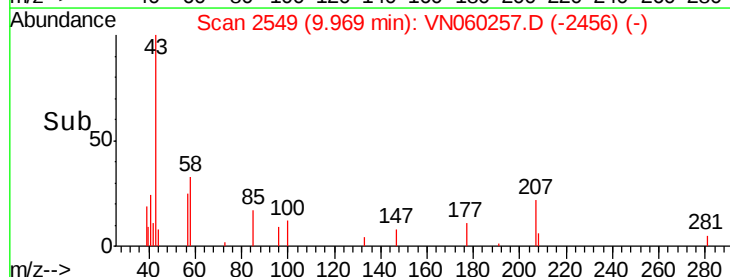
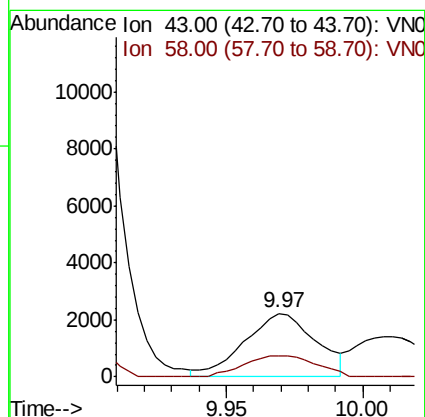
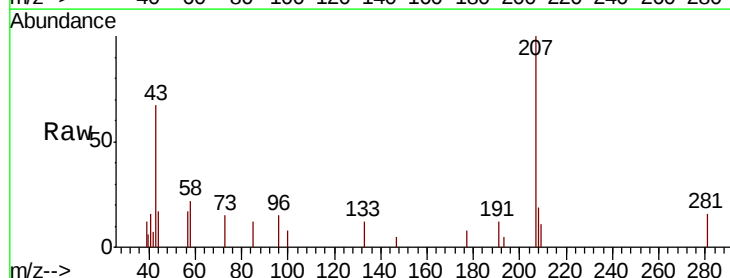
Acq: 26 Feb 2020 17:28

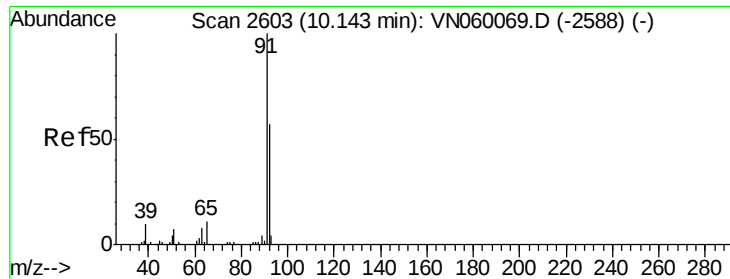
Tgt Ion: 43 Resp: 4045

Ion Ratio Lower Upper

43 100

58 34.0 31.8 47.8





#52

Toluene

Concen: 0.212 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

Instrument :

MSVOA_N

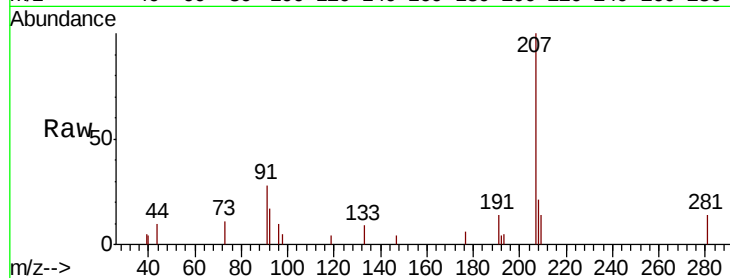
ClientSampled :

Tot Ion: 92 Resp: 1227

Ion Ratio Lower Upper

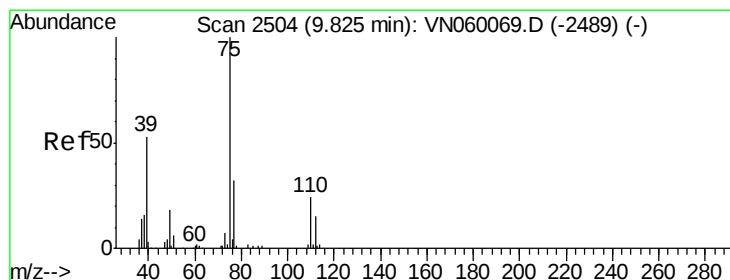
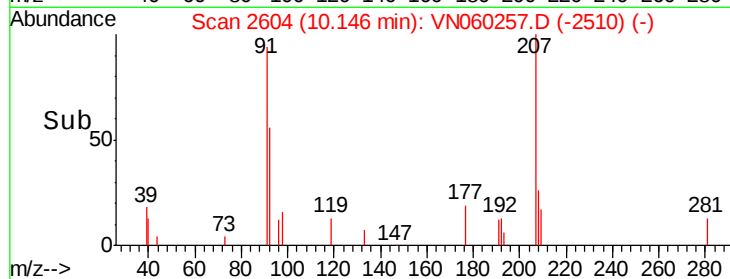
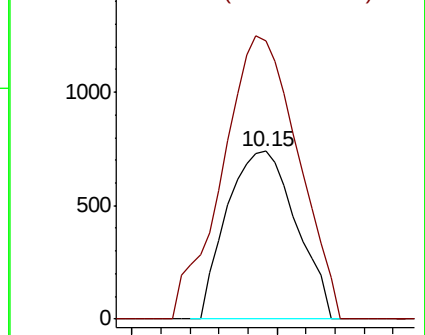
92 100

91 183.5 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.958 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

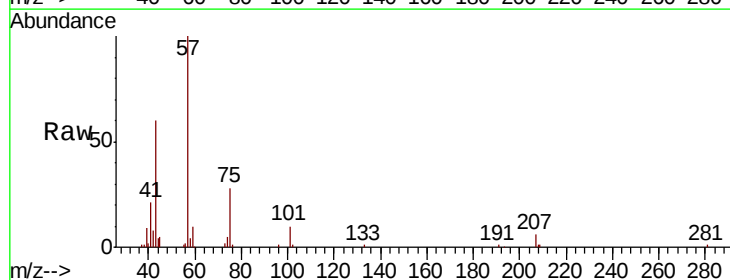
Tgt Ion: 75 Resp: 26523

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

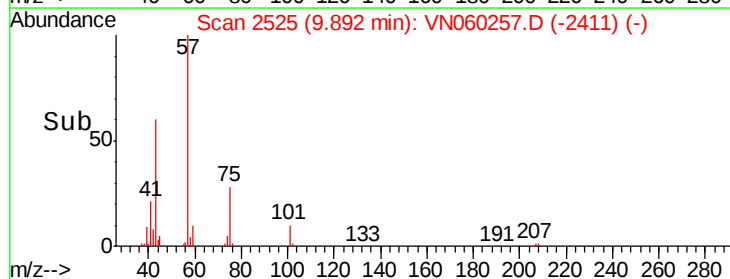
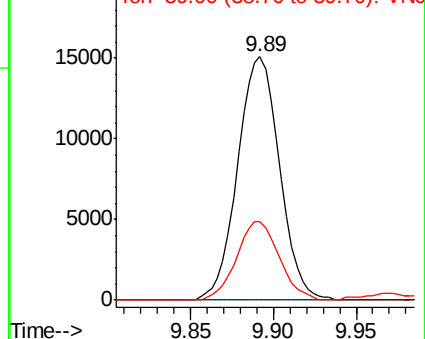
39 32.3 42.2 63.4#

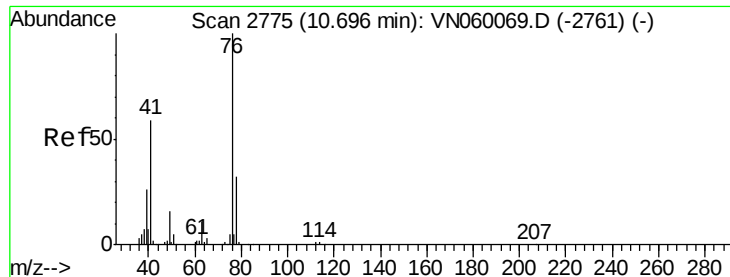


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

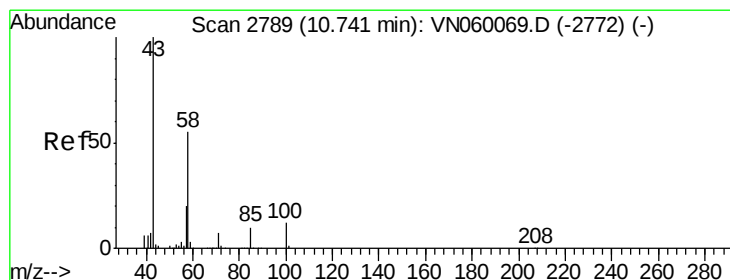
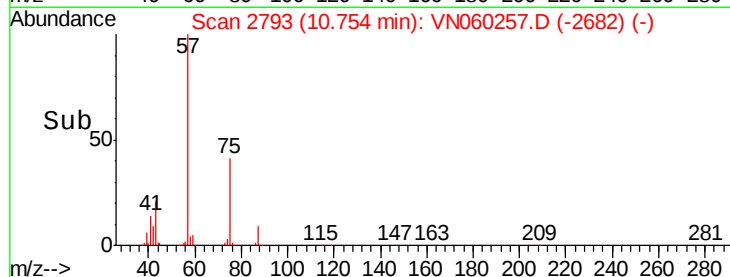
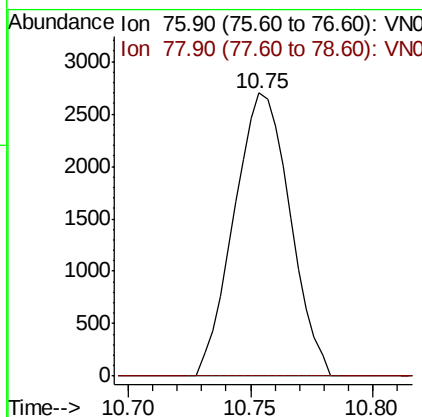
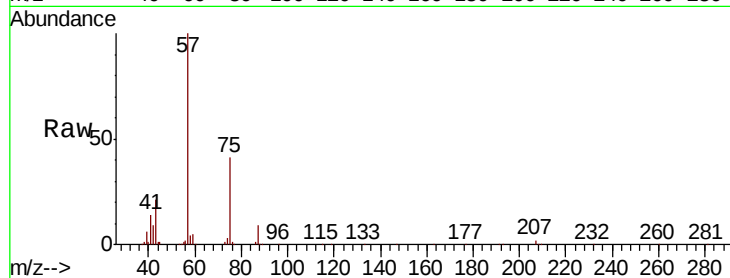




#57
 1,3-Dichloropropane
 Concen: 1.157 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060257.D
 Acq: 26 Feb 2020 17:28

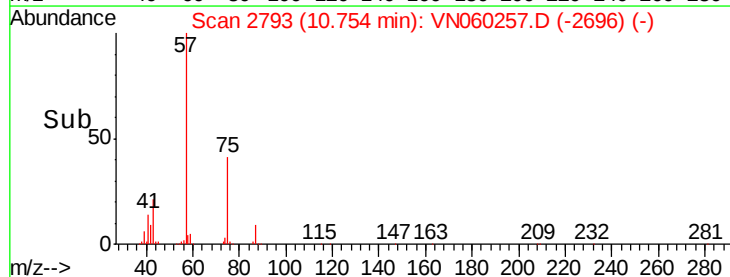
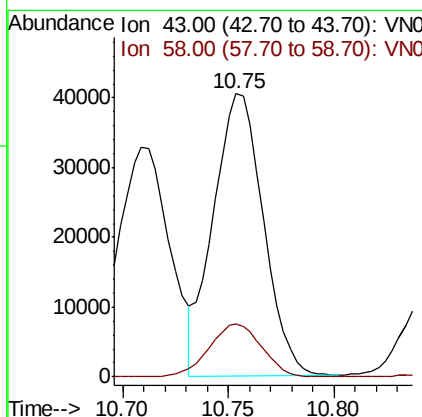
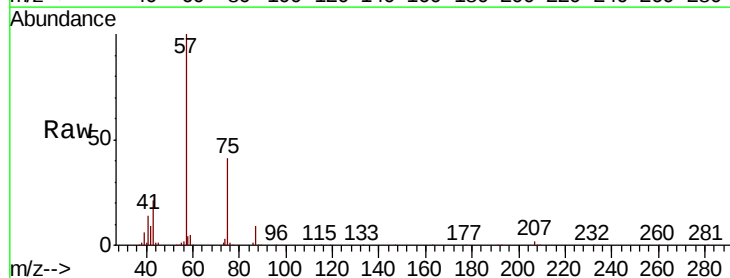
Instrument :
 MSVOA_N
 ClientSampleId :

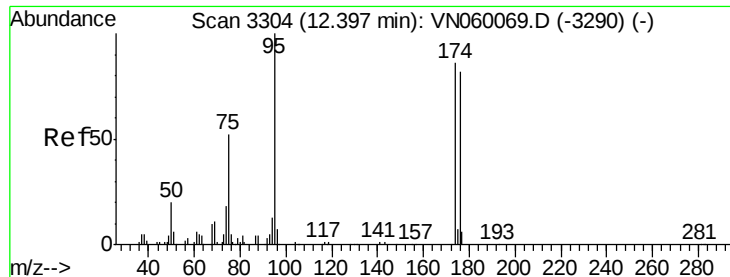
Tot Ion: 76 Resp: 4306
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 31.674 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060257.D
 Acq: 26 Feb 2020 17:28

Tgt Ion: 43 Resp: 66502
 Ion Ratio Lower Upper
 43 100
 58 19.8 27.5 82.4#

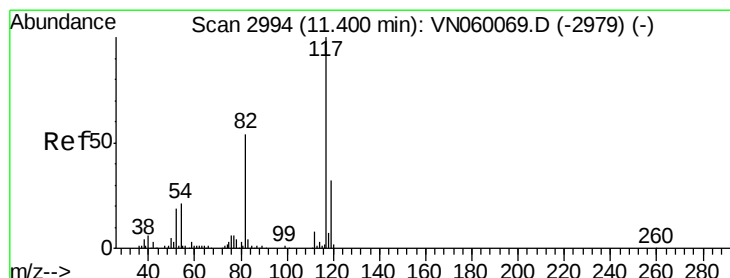
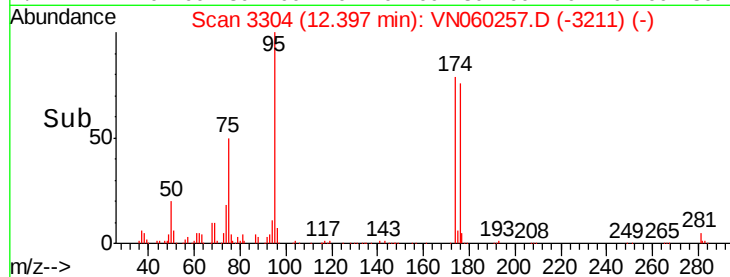
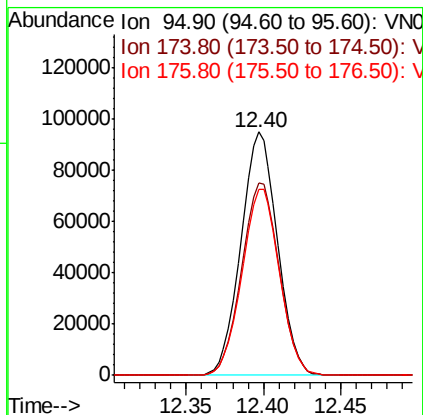
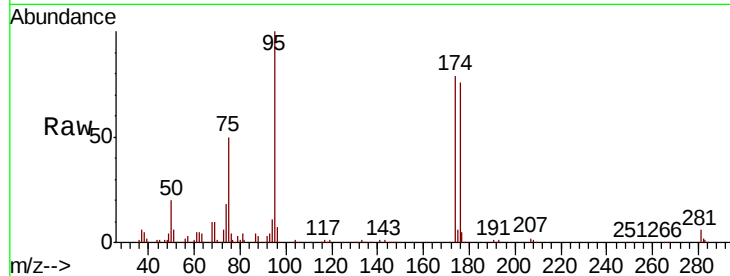




#62
4-Bromofluorobenzene
Concen: 53.434 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

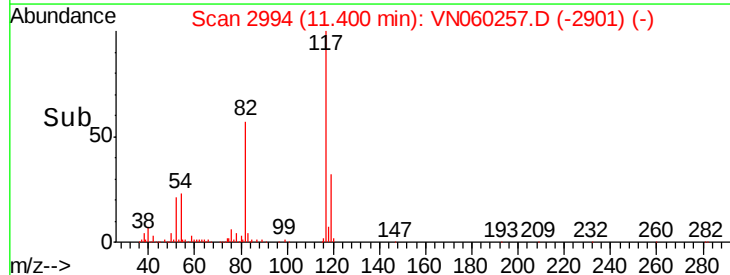
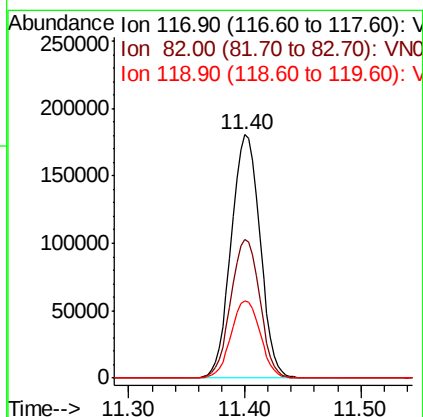
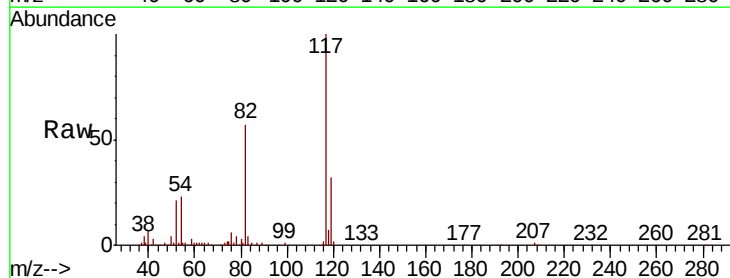
Instrument :
MSVOA_N
ClientSampleId :

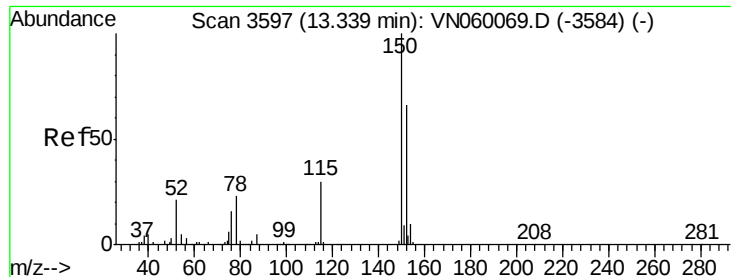
Tot Ion: 95 Resp: 155964
Ion Ratio Lower Upper
95 100
174 81.3 0.0 169.8
176 78.7 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

Tgt Ion: 117 Resp: 312091
Ion Ratio Lower Upper
117 100
82 57.2 43.4 65.0
119 31.9 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

Instrument :

MSVOA_N

ClientSampled :

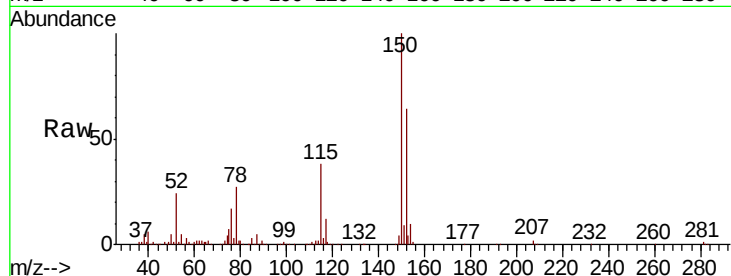
Tot Ion:152 Resp: 155664

Ion Ratio Lower Upper

152 100

115 59.9 28.9 86.8

150 155.5 0.0 342.4

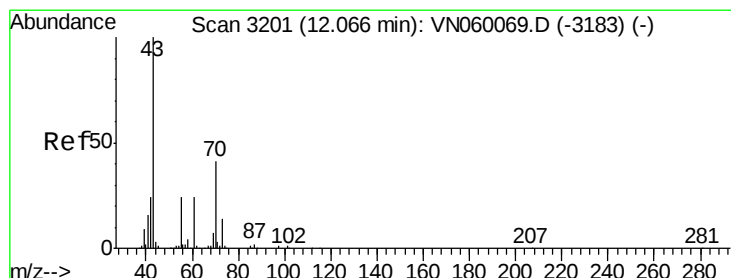
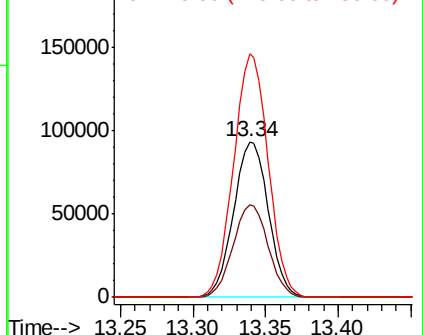
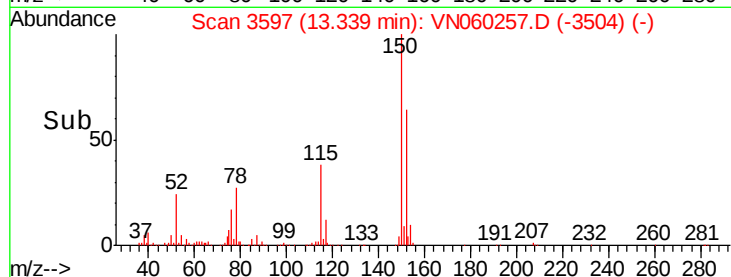


Abundance

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-ethyl acetate

Concen: 1.042 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.05 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

Tgt Ion: 43 Resp: 4366

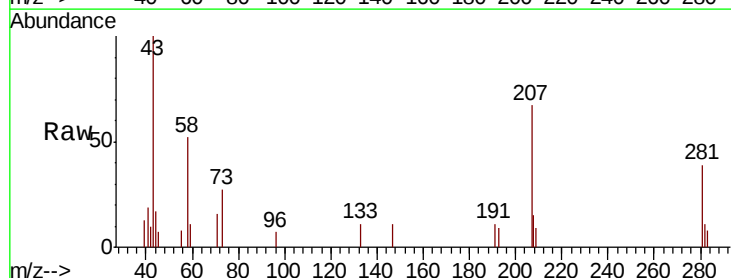
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 4.1 18.8 28.2#

61 0.0 19.2 28.8#



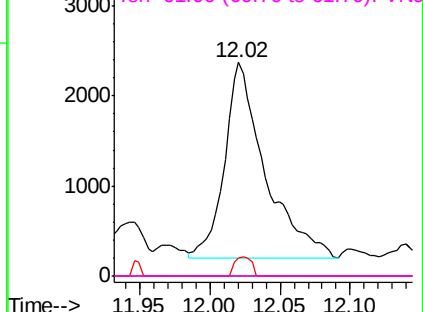
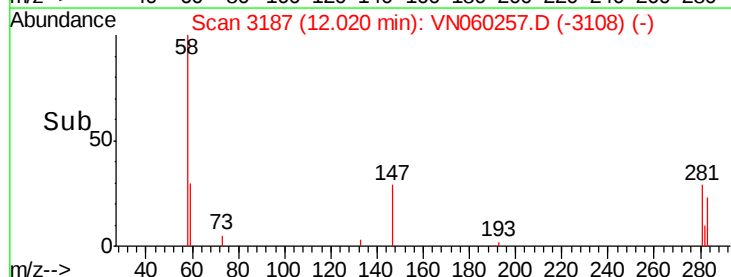
Abundance

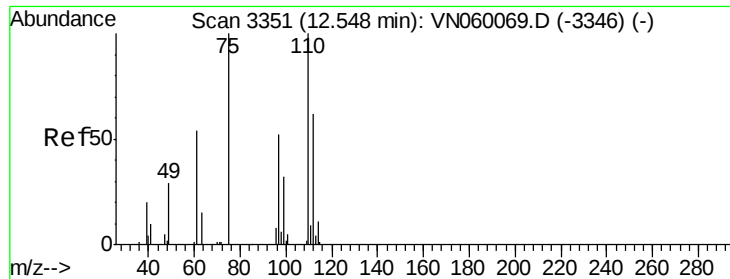
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.326 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060257.D

Acq: 26 Feb 2020 17:28

Instrument :

MSVOA_N

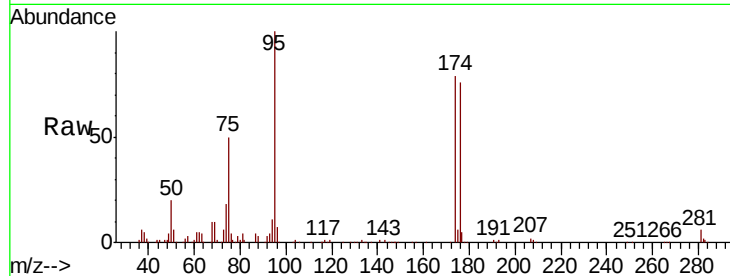
ClientSampled :

Tot Ion: 75 Resp: 81382

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060069.D (-3346) (-)

12.40

50000

40000

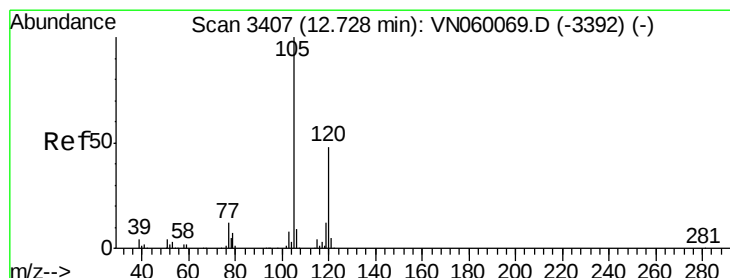
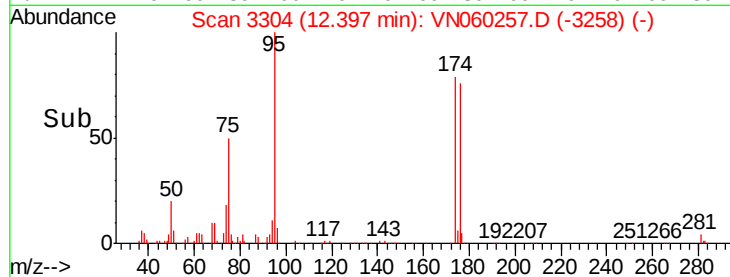
30000

20000

10000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.278 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060257.D

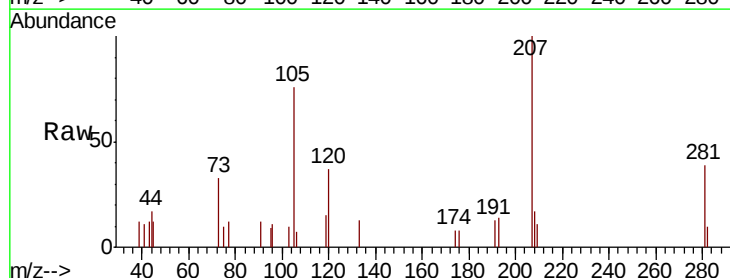
Acq: 26 Feb 2020 17:28

Tgt Ion: 105 Resp: 2683

Ion Ratio Lower Upper

105 100

120 47.6 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VN060069.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN060069.D (-3392) (-)

12.73

2000

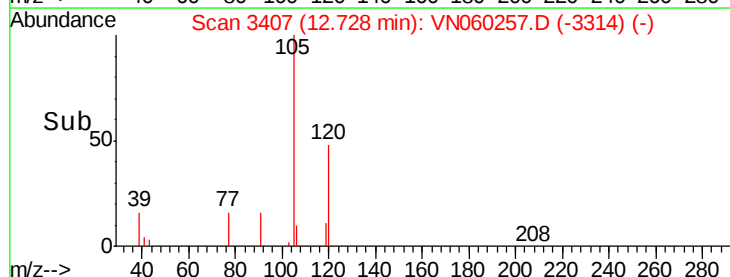
1500

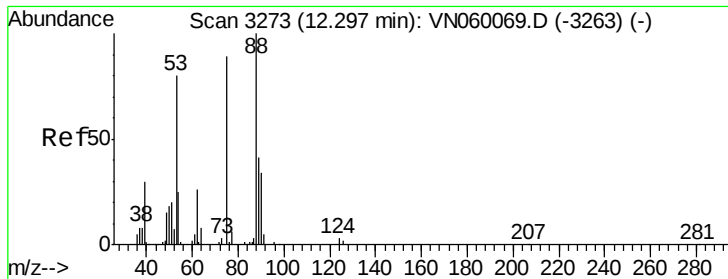
1000

500

0

Time-->

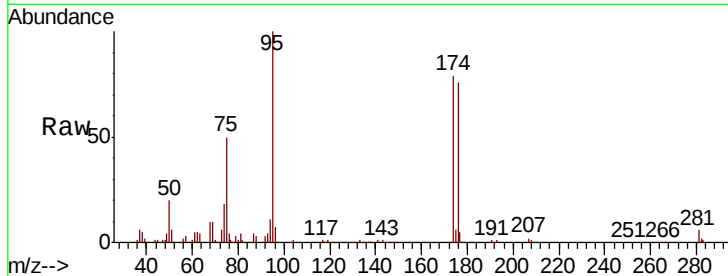




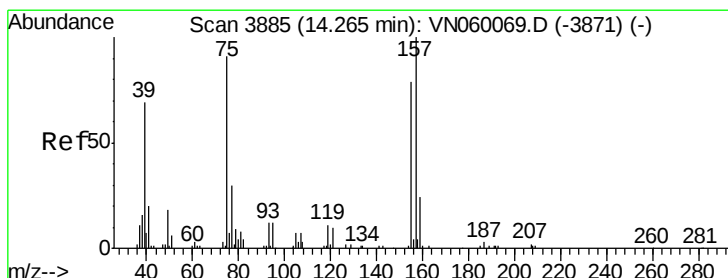
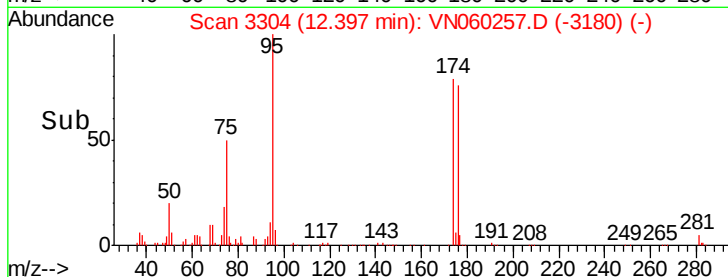
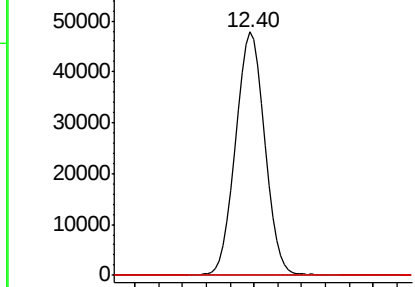
#81
trans-1,4-Dichloro-2-butene
Concen: 66.908 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 81382
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 37.0 55.4#

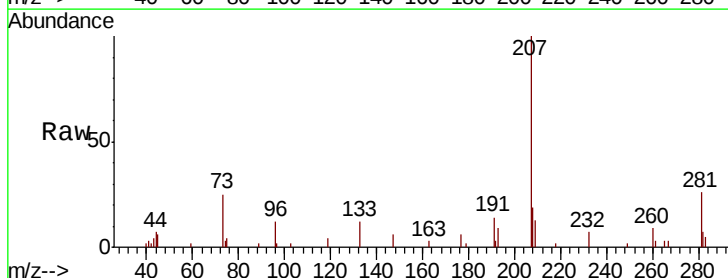


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.25 min Scan# 3879
Delta R.T. -0.02 min
Lab File: VN060257.D
Acq: 26 Feb 2020 17:28

Tgt Ion: 75 Resp: 62
Ion Ratio Lower Upper
75 100
155 0.0 43.0 129.0#
157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

