

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060520\
 Data File : VN061659.D
 Acq On : 5 Jun 2020 11:05
 Operator : JC/MD
 Sample : VN0605WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0605WBL01

Quant Time: Jun 06 03:18:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	270491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	461429	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	429906	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	175682	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.98	65	150266	46.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.26%	
35) Dibromofluoromethane	7.54	113	128895	55.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.14%	
50) Toluene-d8	10.06	98	539808	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.38	95	182625	46.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.30%	

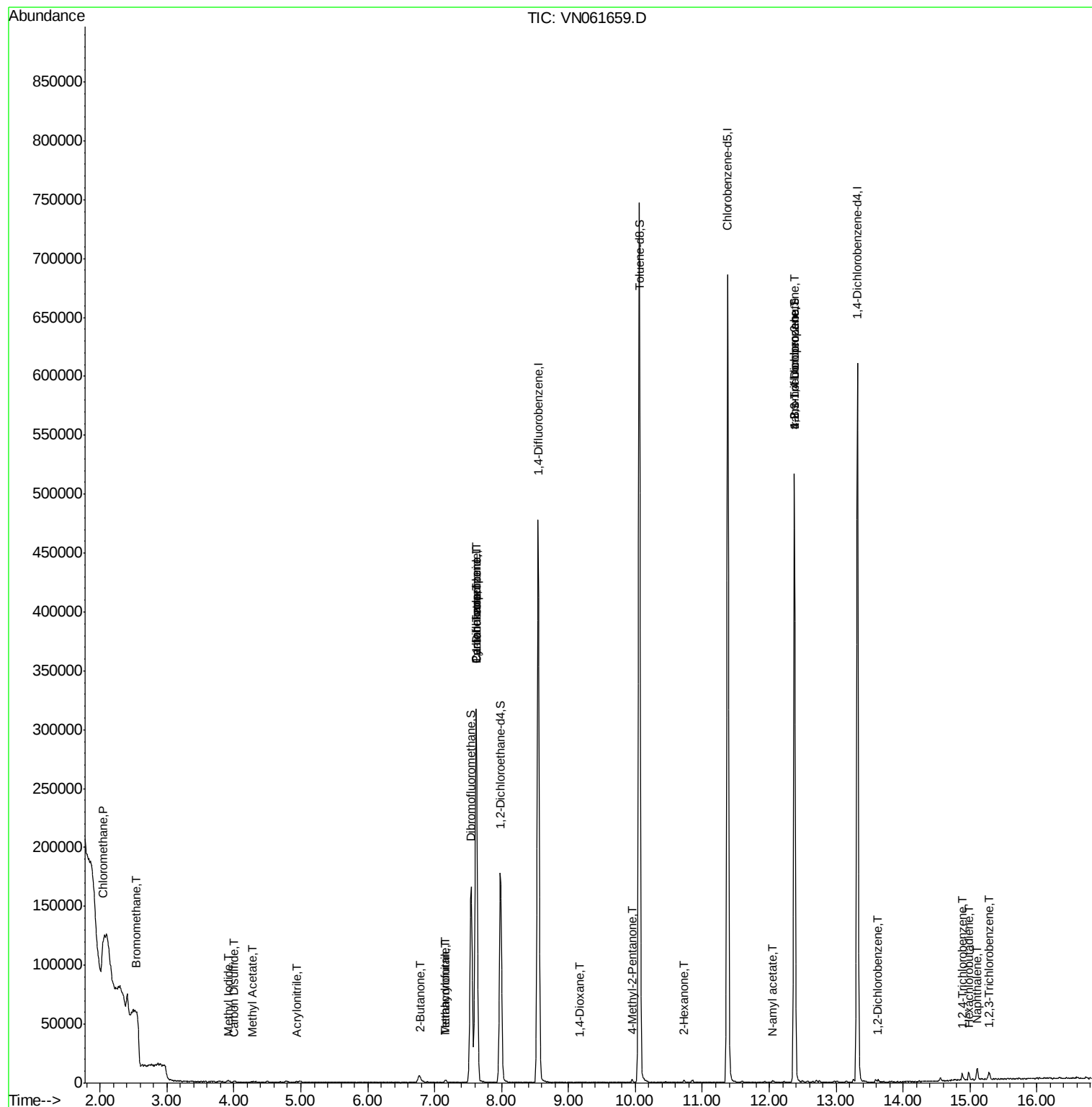
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1977	0.60	ug/l #	85
5) Bromomethane	2.55	94	1998	0.77	ug/l #	65
10) Methyl Iodide	3.92	142	2034	0.57	ug/l #	42
15) Acrylonitrile	4.93	53	296	0.25	ug/l #	33
16) Acetone	3.77	43	1635	Below Cal	#	41
17) Carbon Disulfide	4.00	76	1506	0.25	ug/l #	74
18) Methyl Acetate	4.27	43	624	0.21	ug/l #	56
20) Methylene Chloride	4.51	84	235	Below Cal	#	31
25) 2-Butanone	6.79	43	557	0.36	ug/l #	42
29) Tetrahydrofuran	7.17	42	1053	1.05	ug/l #	76
31) Cyclohexane	7.62	56	5113	1.13	ug/l #	24
36) 1,1-Dichloropropene	7.62	75	19009	4.65	ug/l #	48
38) Carbon Tetrachloride	7.62	117	26053	6.61	ug/l #	16
41) Methacrylonitrile	7.16	41	703	0.47	ug/l #	25
49) 1,4-Dioxane	9.17	88	262	6.35	ug/l #	29
51) 4-Methyl-2-Pentanone	9.96	43	1665	0.50	ug/l #	76
59) 2-Hexanone	10.72	43	1476	0.62	ug/l	86
74) N-amyl acetate	12.05	43	867	0.21	ug/l #	60
76) 1,2,3-Trichloropropane	12.37	75	89333	27.96	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	89333	71.51	ug/l #	15
91) 1,2-Dichlorobenzene	13.63	146	1273	0.23	ug/l	92
93) 1,2,4-Trichlorobenzene	14.89	180	2138	0.66	ug/l	92
94) Hexachlorobutadiene	14.98	225	1585	1.15	ug/l	84
95) Naphthalene	15.11	128	10236	1.04	ug/l	97
96) 1,2,3-Trichlorobenzene	15.28	180	2644	0.83	ug/l	95

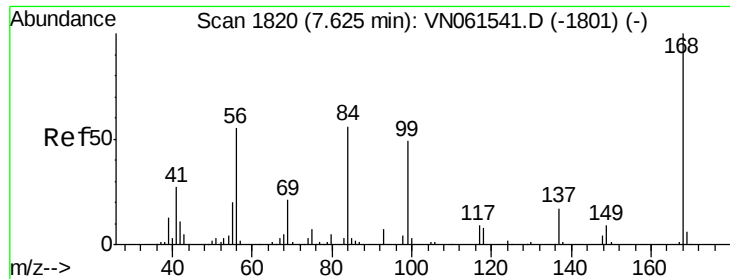
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN060520\
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Sample : VN0605WBL01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0605WBL01

Quant Time: Jun 06 03:18:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

Instrument :

MSVOA_N

ClientSampleId :

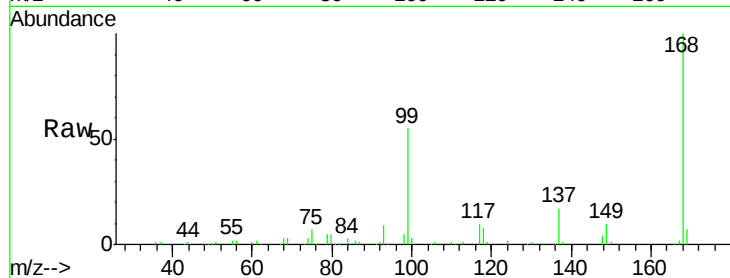
VN0605WBL01

Tgt Ion:168 Resp: 270491

Ion Ratio Lower Upper

168 100

99 54.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

120000

100000

80000

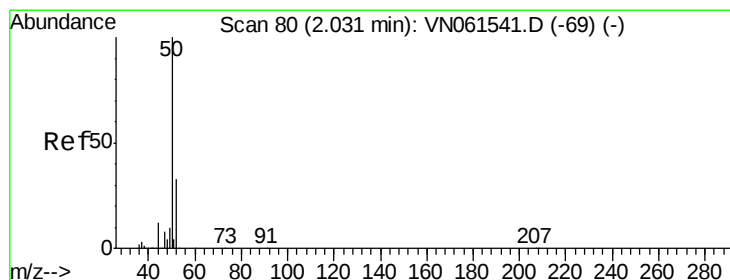
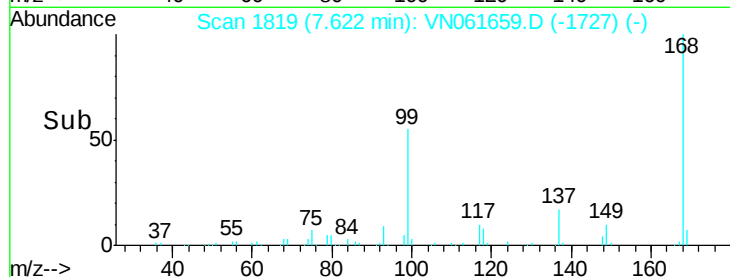
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.60 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061659.D

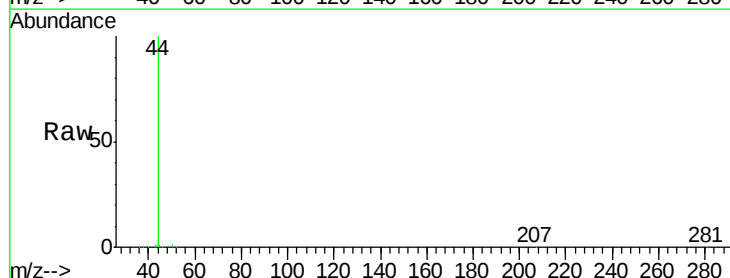
Acq: 5 Jun 2020 11:05

Tgt Ion: 50 Resp: 1977

Ion Ratio Lower Upper

50 100

52 41.7 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

1000

800

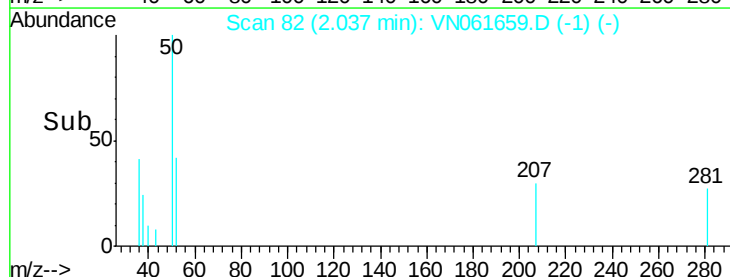
600

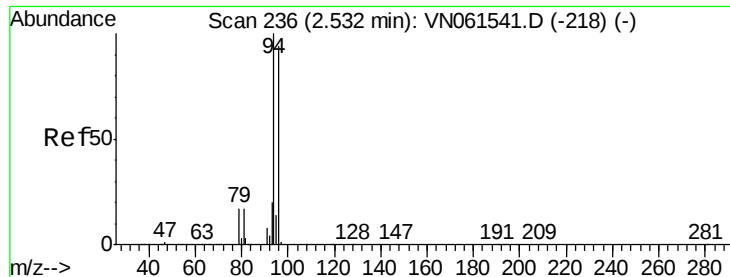
400

200

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.77 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

Instrument :

MSVOA_N

ClientSampled :

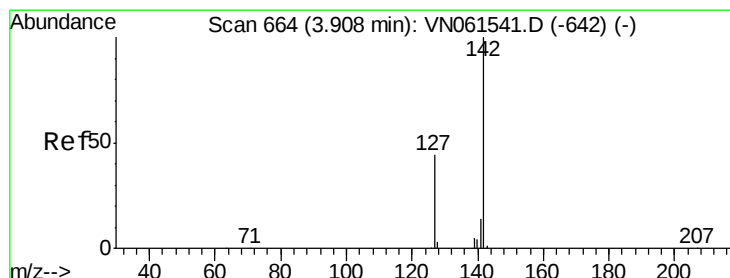
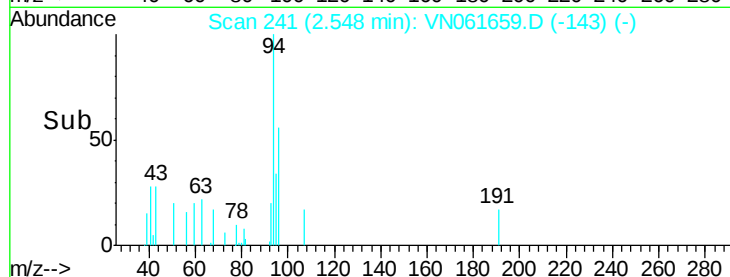
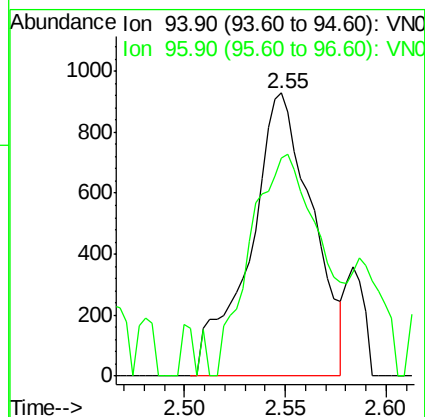
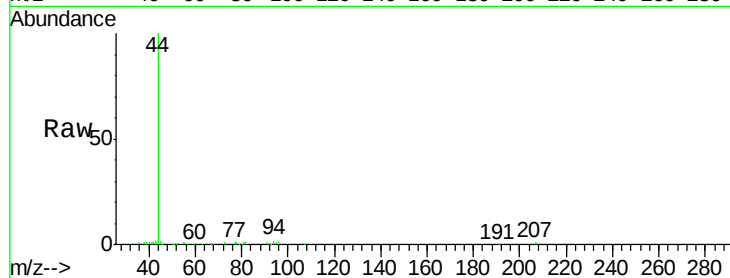
VN0605WBL01

Tgt Ion: 94 Resp: 1998

Ion Ratio Lower Upper

94 100

96 60.1 74.8 112.2#



#10

Methyl Iodide

Concen: 0.57 ug/l

RT: 3.92 min Scan# 668

Delta R.T. 0.01 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

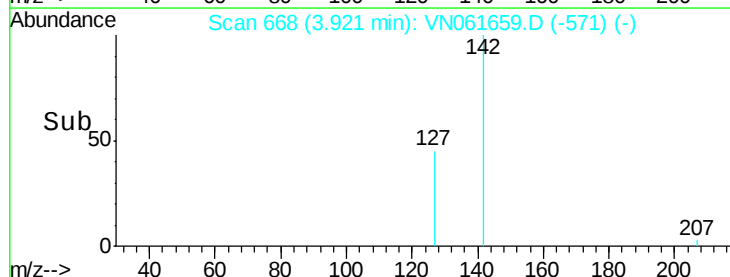
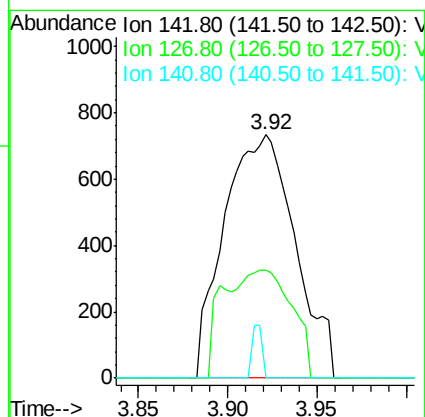
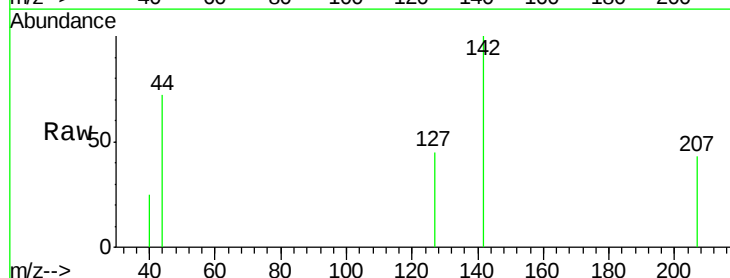
Tgt Ion: 142 Resp: 2034

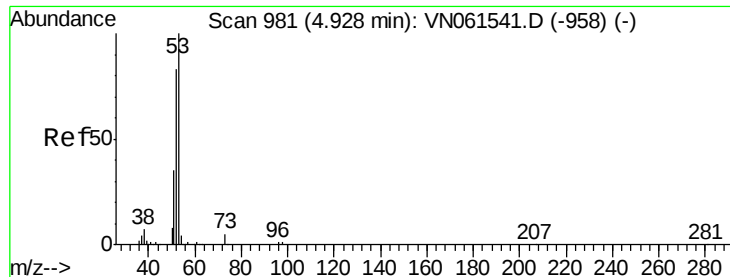
Ion Ratio Lower Upper

142 100

127 0.0 35.5 53.3#

141 3.0 11.5 17.3#





#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 4.93 min Scan# 983

Delta R.T. 0.01 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0605WBL01

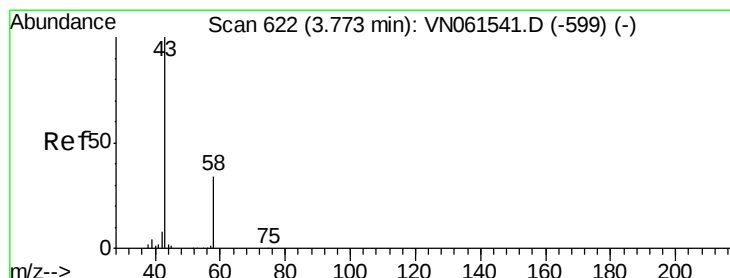
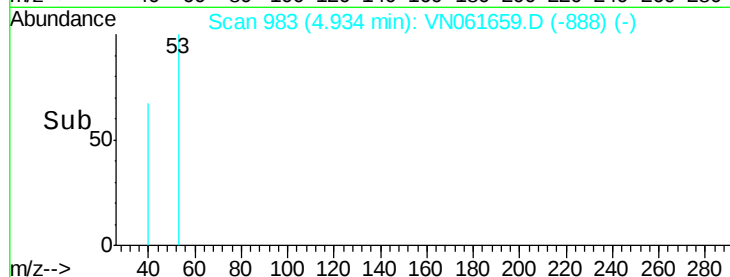
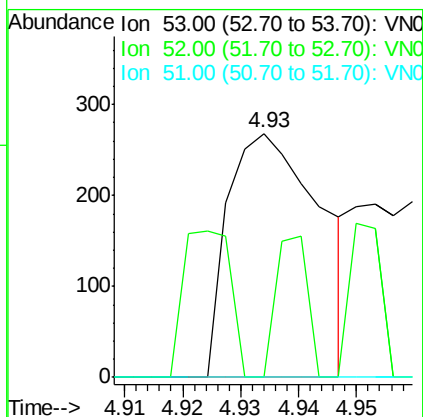
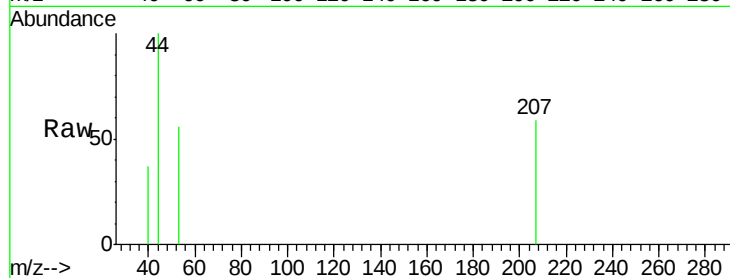
Tgt Ion: 53 Resp: 296

Ion Ratio Lower Upper

53 100

52 19.9 65.4 98.2#

51 0.0 29.0 43.6#



#16

Acetone

Concen: Below Cal

RT: 3.77 min Scan# 622

Delta R.T. 0.00 min

Lab File: VN061659.D

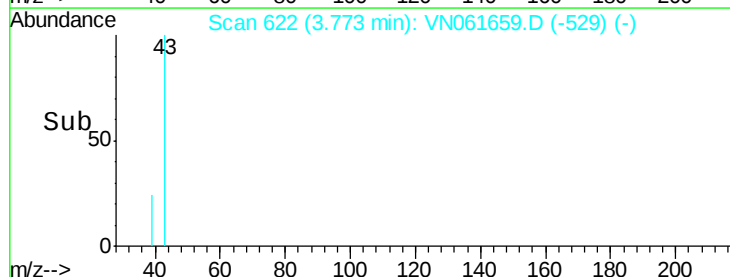
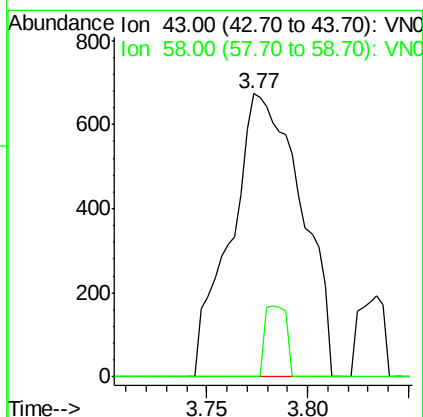
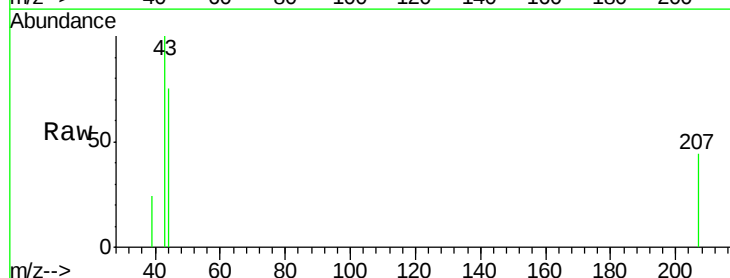
Acq: 5 Jun 2020 11:05

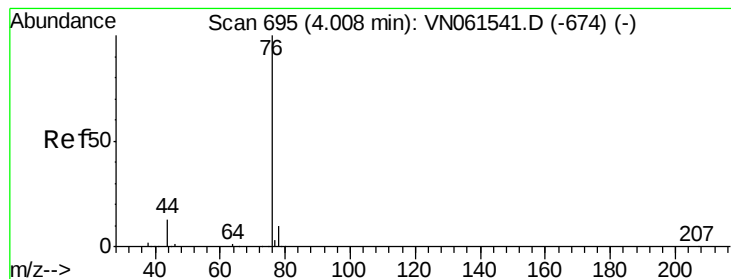
Tgt Ion: 43 Resp: 1635

Ion Ratio Lower Upper

43 100

58 0.0 27.2 40.8#





#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 4.00 min Scan# 691

Delta R.T. -0.01 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

Instrument :

MSVOA_N

ClientSampleId :

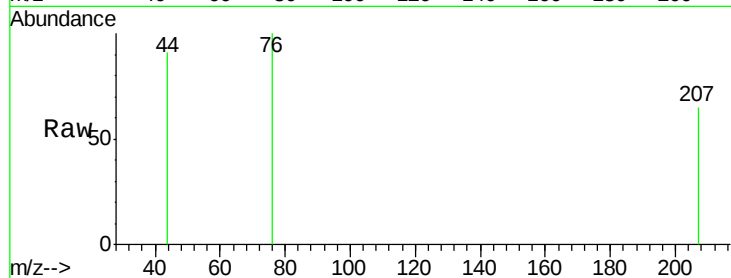
VN0605WBL01

Tgt Ion: 76 Resp: 1506

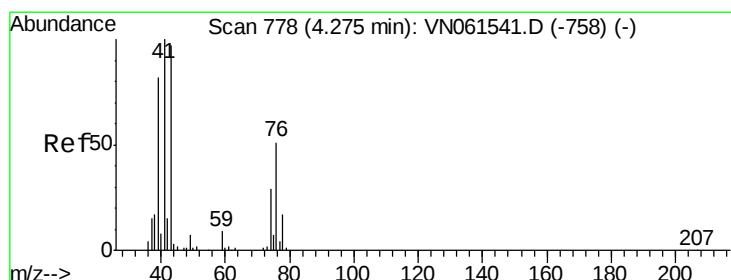
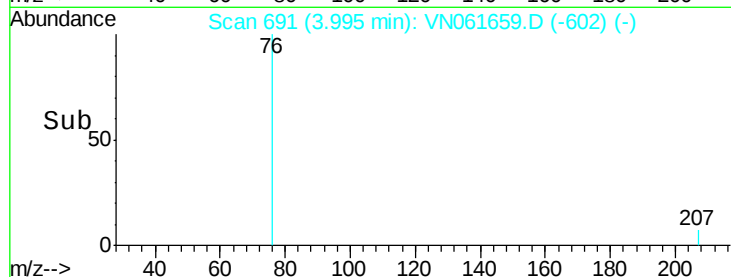
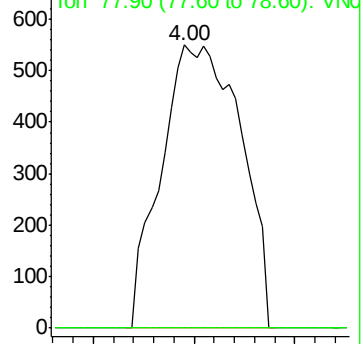
Ion Ratio Lower Upper

76 100

78 0.0 7.8 11.6#



Abundance Ion 75.90 (75.60 to 76.60): VN061541.D (-674) (-)



#18

Methyl Acetate

Concen: 0.21 ug/l

RT: 4.27 min Scan# 776

Delta R.T. -0.01 min

Lab File: VN061659.D

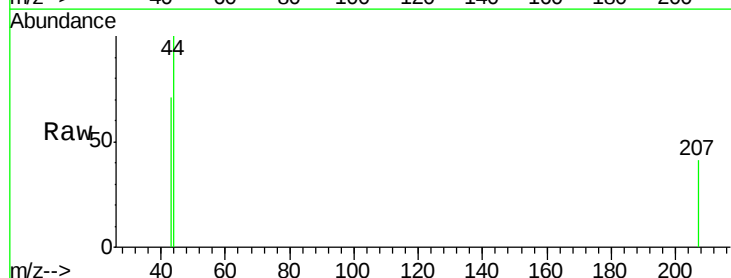
Acq: 5 Jun 2020 11:05

Tgt Ion: 43 Resp: 624

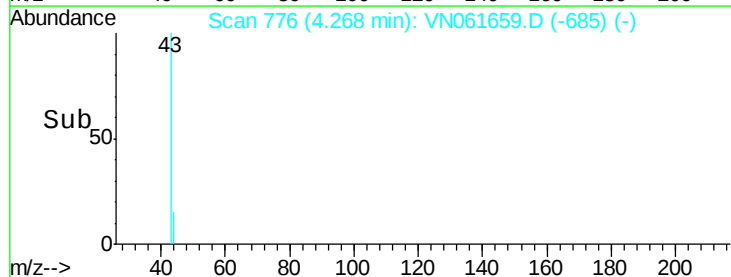
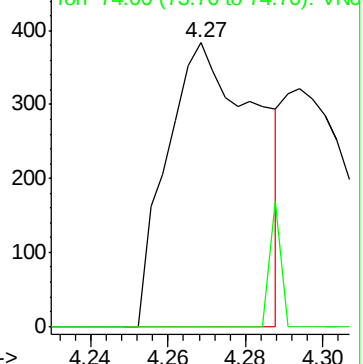
Ion Ratio Lower Upper

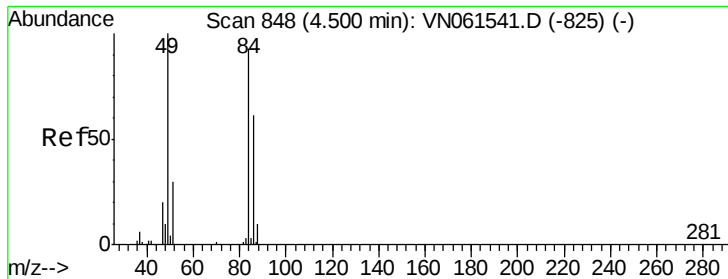
43 100

74 5.3 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061659.D (-685) (-)





#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 850

Delta R.T. 0.01 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0605WBL01

Tgt Ion: 84 Resp: 235

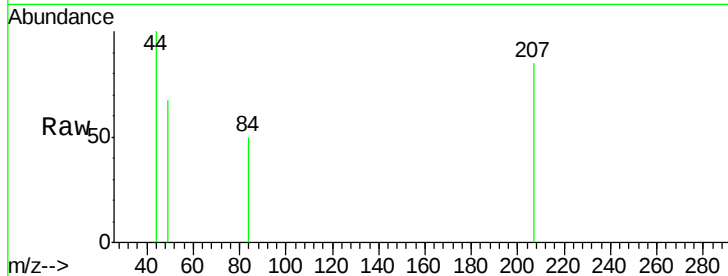
Ion Ratio Lower Upper

84 100

49 41.7 85.8 128.8#

51 0.0 26.2 39.2#

86 0.0 52.6 78.8#



Abundance Ion 83.90 (83.60 to 84.60): VN0

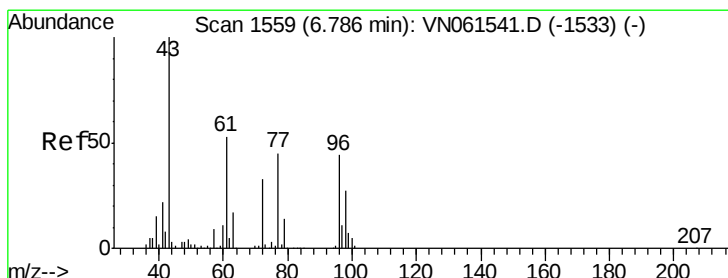
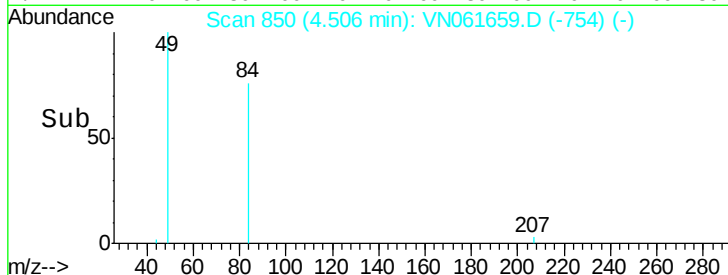
Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

4.51

Time-->



#25

2-Butanone

Concen: 0.36 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VN061659.D

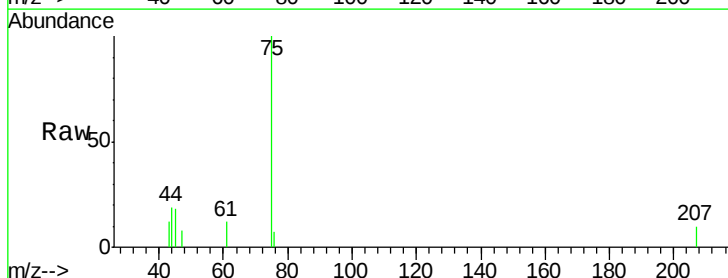
Acq: 5 Jun 2020 11:05

Tgt Ion: 43 Resp: 557

Ion Ratio Lower Upper

43 100

72 0.0 26.0 39.0#

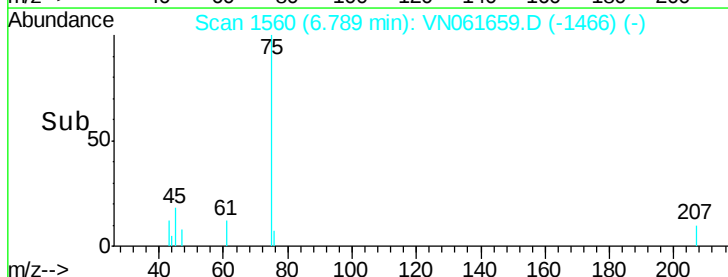


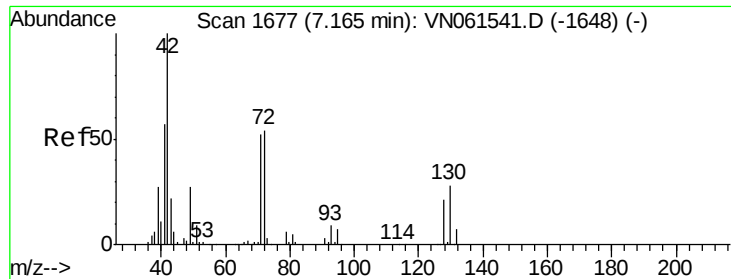
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

Time-->

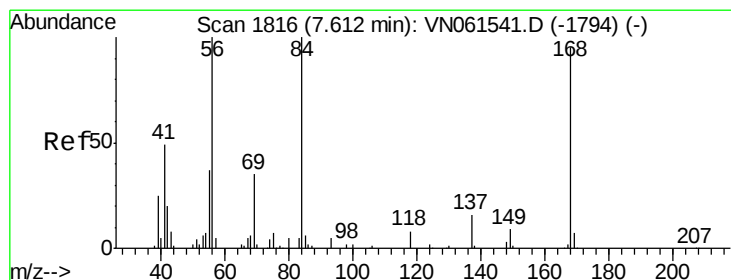
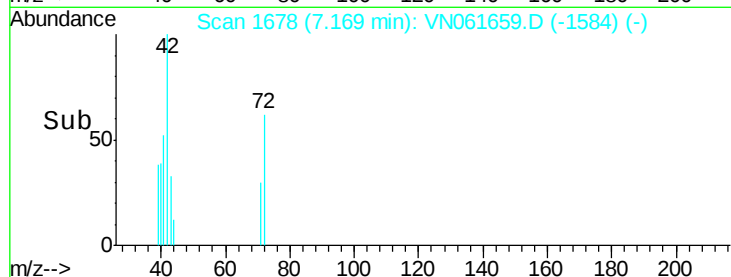
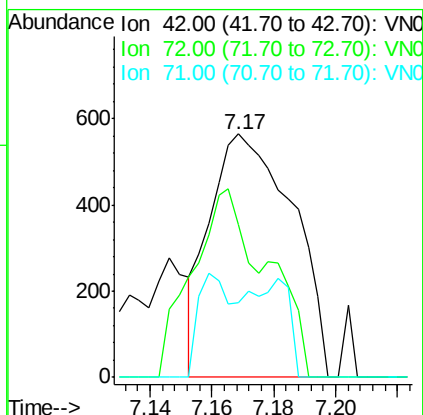
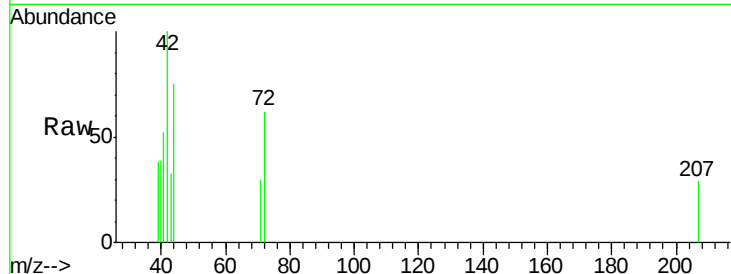




#29
Tetrahydrofuran
Concen: 1.05 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

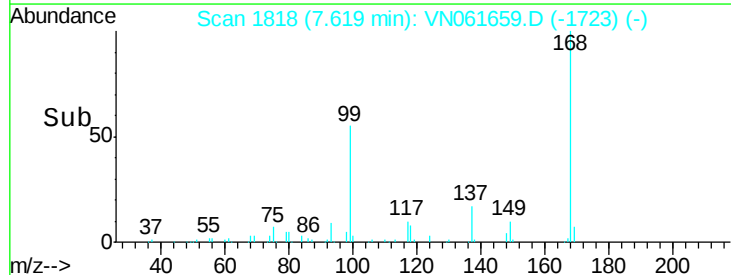
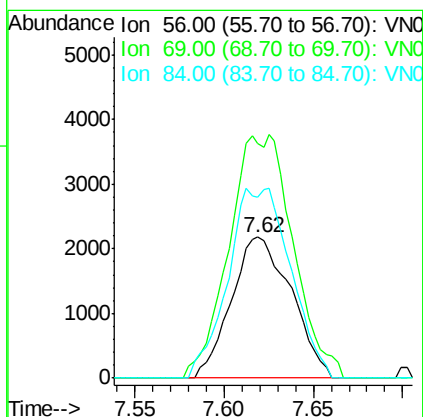
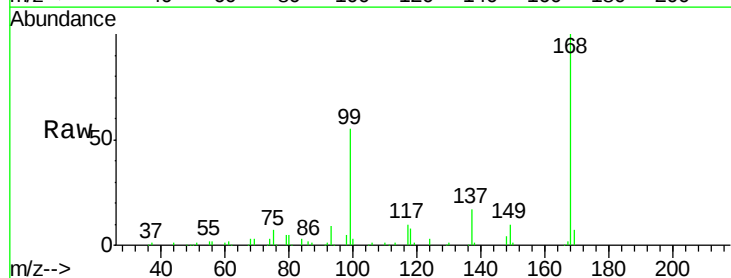
Instrument :
MSVOA_N
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VN0605WBL01

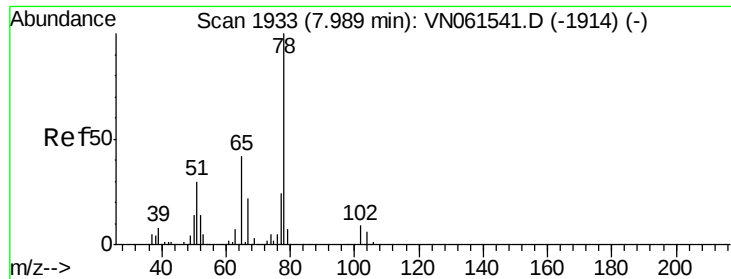
Tgt Ion: 42 Resp: 1053
Ion Ratio Lower Upper
42 100
72 53.1 43.6 65.4
71 18.2 41.2 61.8#



#31
Cyclohexane
Concen: 1.13 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

Tgt Ion: 56 Resp: 5113
Ion Ratio Lower Upper
56 100
69 158.4 27.8 41.8#
84 128.4 79.9 119.9#

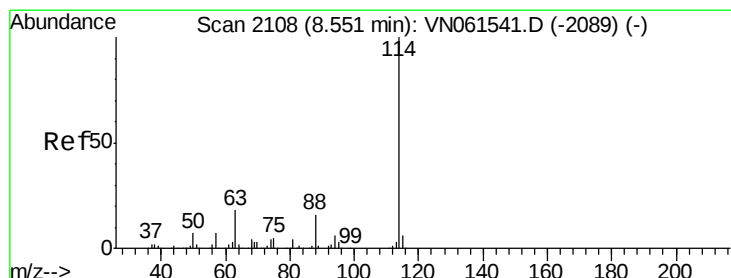
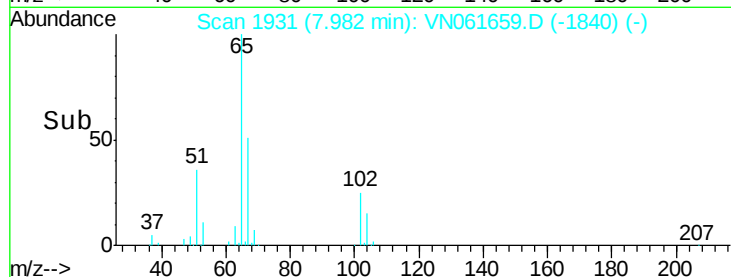
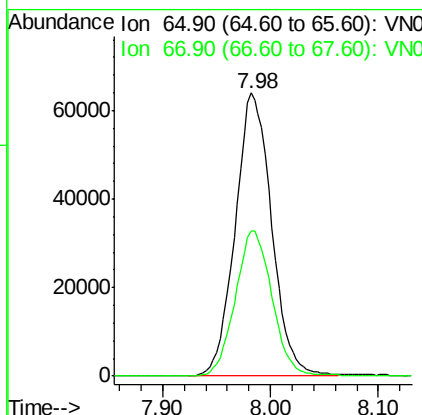
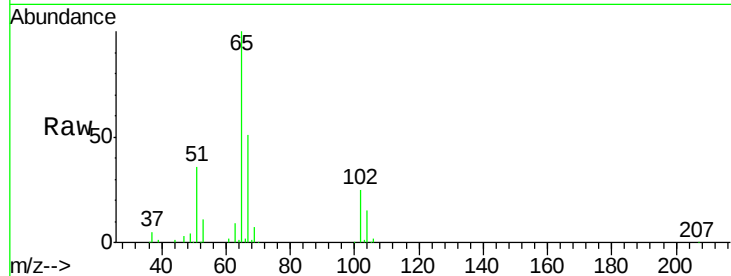




#33
 1,2-Dichloroethane-d4
 Concen: 46.63 ug/l
 RT: 7.98 min Scan# 1931
 Delta R.T. -0.01 min
 Lab File: VN061659.D
 Acq: 5 Jun 2020 11:05

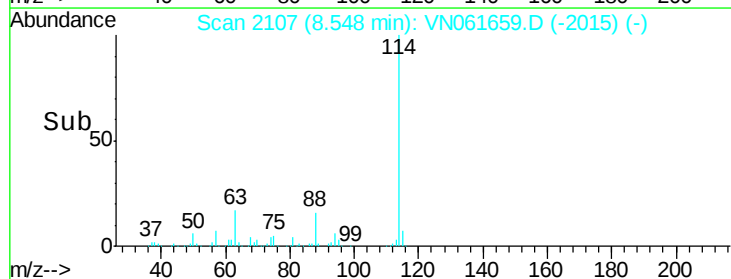
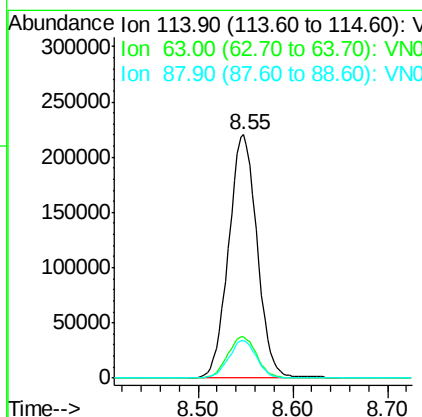
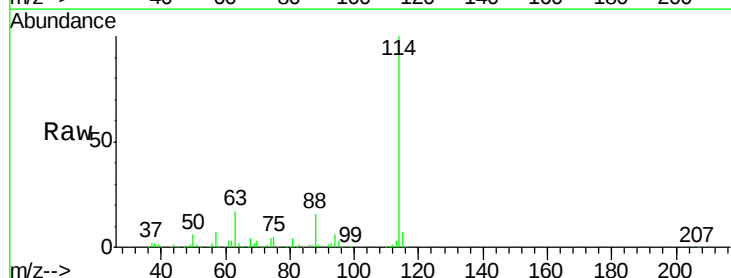
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0605WBL01

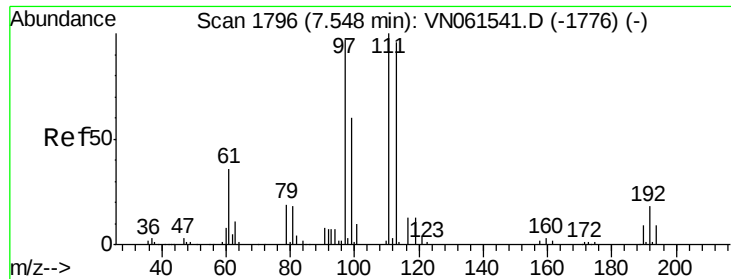
Tgt Ion: 65 Resp: 150266
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061659.D
 Acq: 5 Jun 2020 11:05

Tgt Ion: 114 Resp: 461429
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 35.8
 88 15.6 0.0 31.0

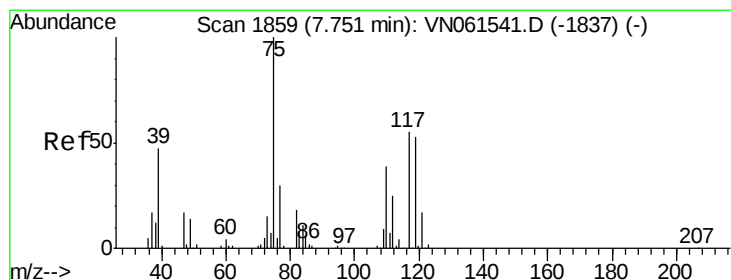
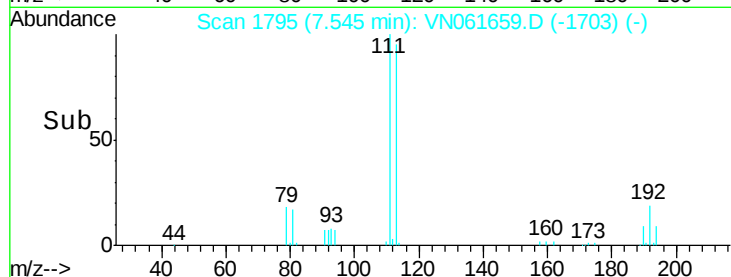
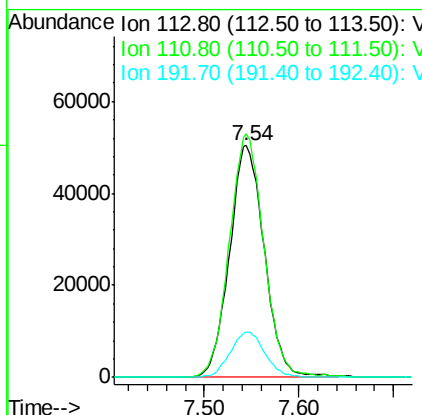
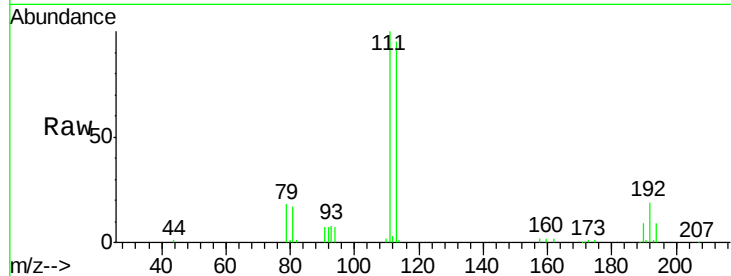




#35
Dibromofluoromethane
Concen: 55.07 ug/l
RT: 7.54 min Scan# 1795
Delta R.T. -0.00 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

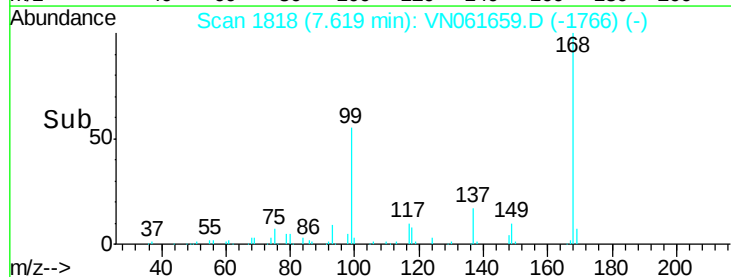
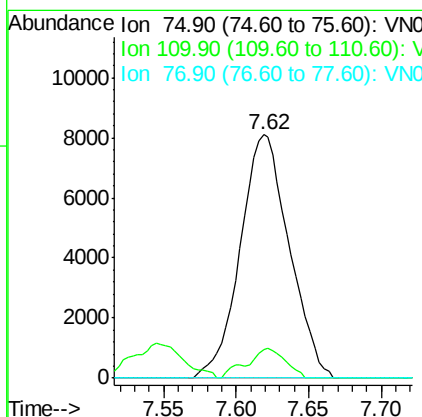
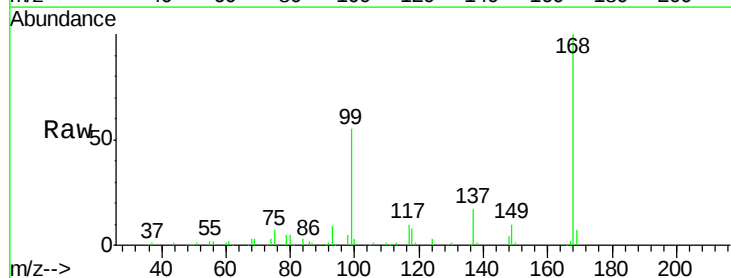
Instrument :
MSVOA_N
ClientSampleId :
VN0605WBL01

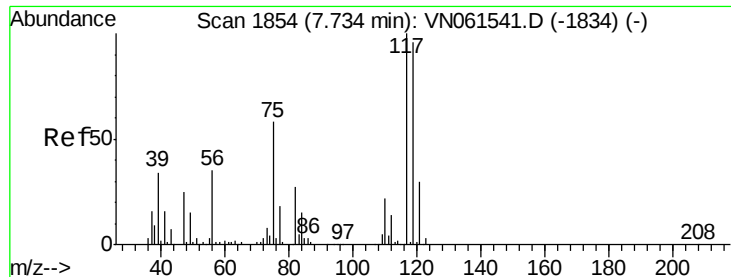
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	83.4	125.0
192	19.5	15.4	23.2



#36
1,1-Dichloropropene
Concen: 4.65 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. -0.13 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.5	58.5#
77	0.0	24.7	37.1#

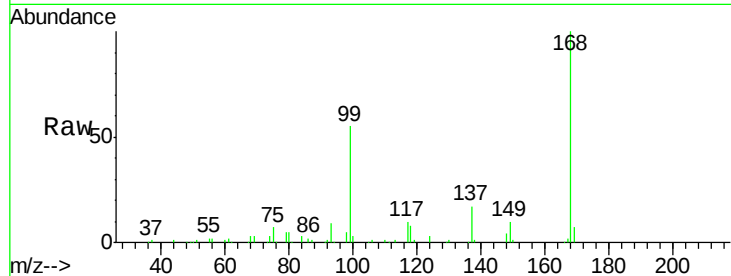




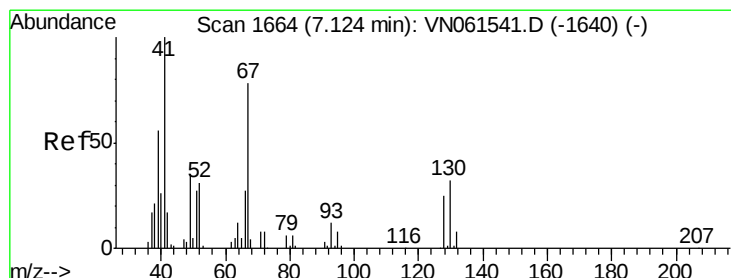
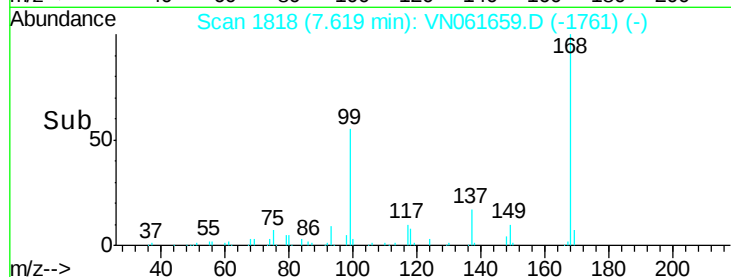
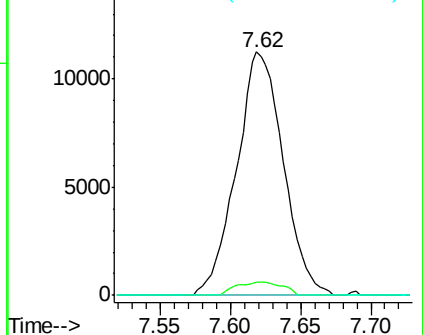
#38
Carbon Tetrachloride
Concen: 6.61 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. -0.12 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

Instrument :
MSVOA_N
ClientSampled :
VN0605WBL01

Tgt Ion: 117 Resp: 26053
Ion Ratio Lower Upper
117 100
119 5.4 76.5 114.7#
121 0.0 24.1 36.1#

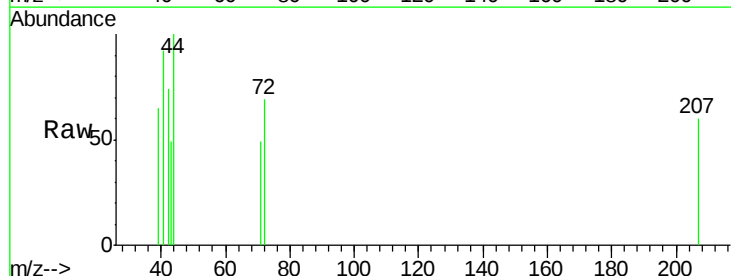


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

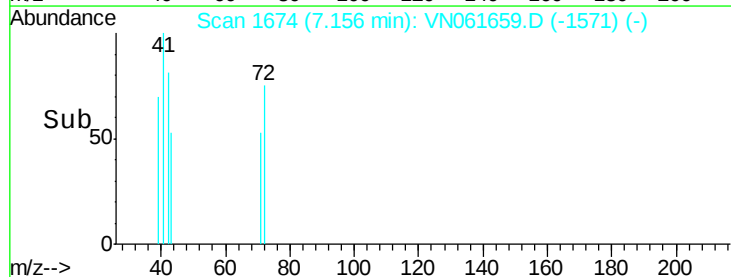
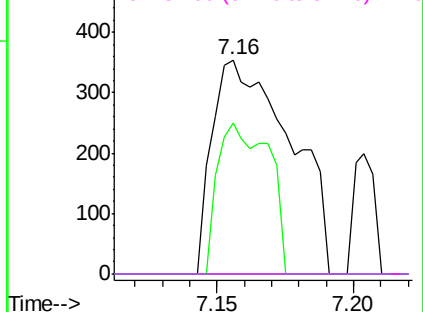


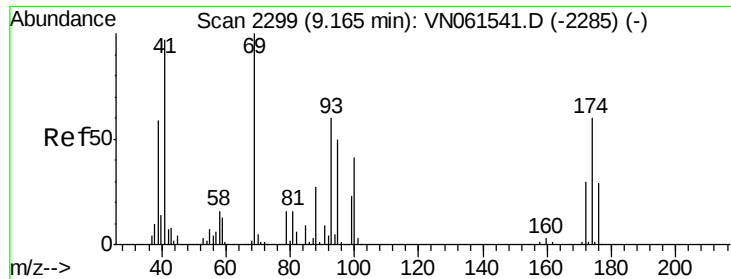
#41
Methacrylonitrile
Concen: 0.47 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. 0.03 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

Tgt Ion: 41 Resp: 703
Ion Ratio Lower Upper
41 100
39 46.2 53.8 80.6#
67 0.0 91.1 136.7#
52 0.0 36.0 54.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

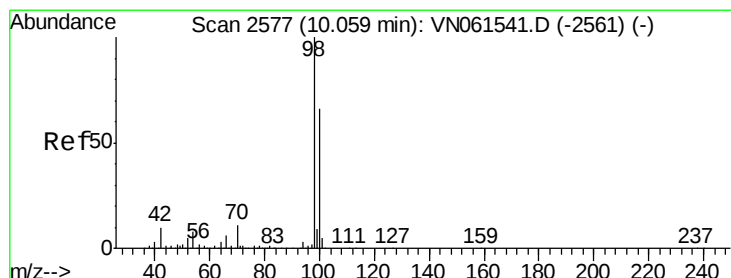
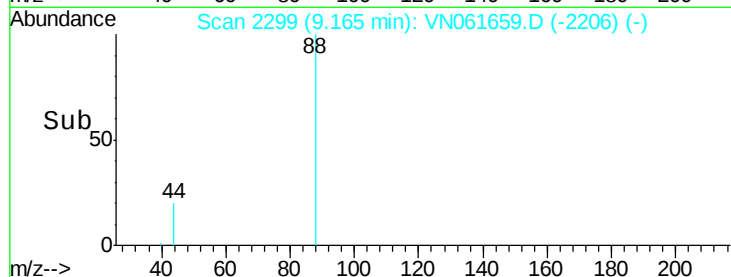
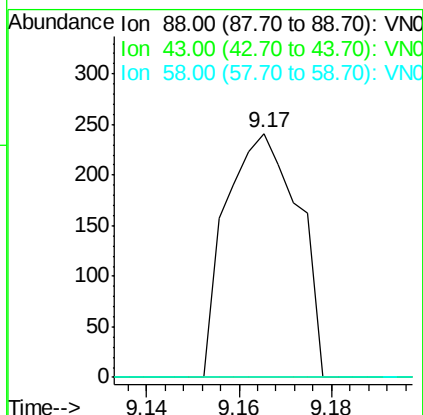
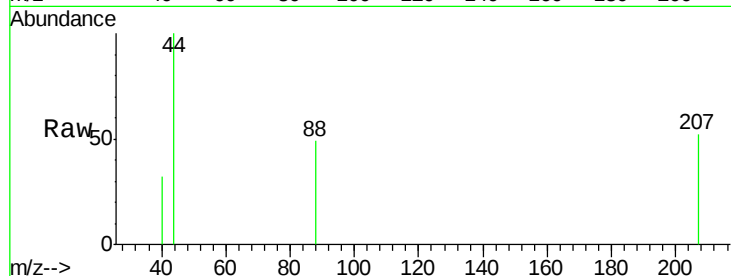




#49
1,4-Dioxane
Concen: 6.35 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.00 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

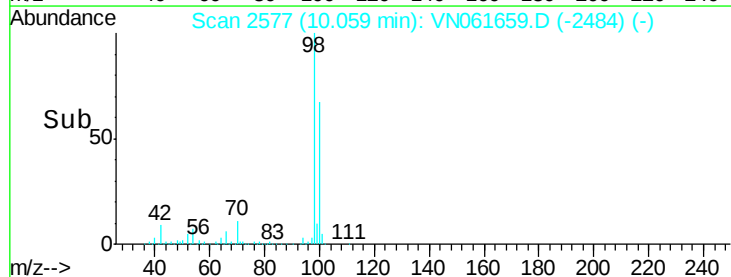
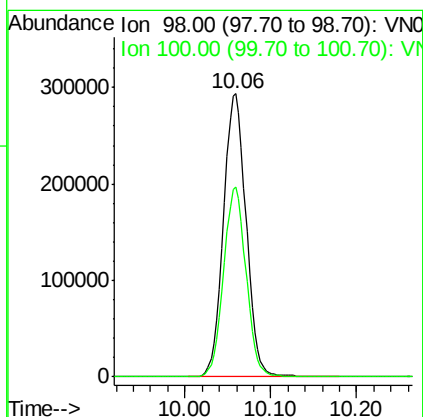
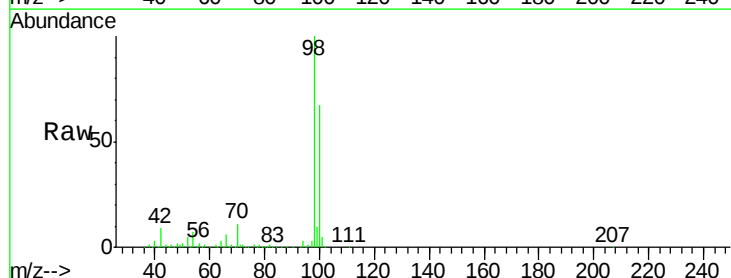
Instrument :
MSVOA_N
ClientSampleId :
VN0605WBL01

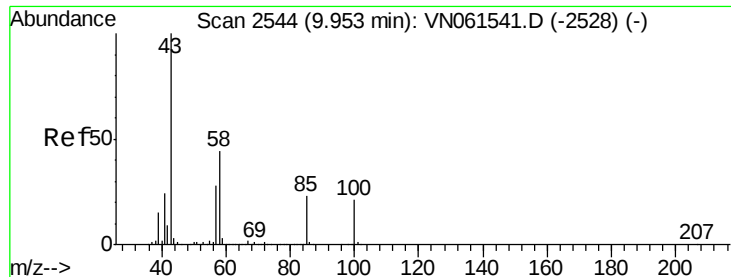
Tgt Ion: 88 Resp: 262
Ion Ratio Lower Upper
88 100
43 0.0 23.1 34.7#
58 0.0 48.3 72.5#



#50
Toluene-d8
Concen: 49.76 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

Tgt Ion: 98 Resp: 539808
Ion Ratio Lower Upper
98 100
100 66.2 52.8 79.2

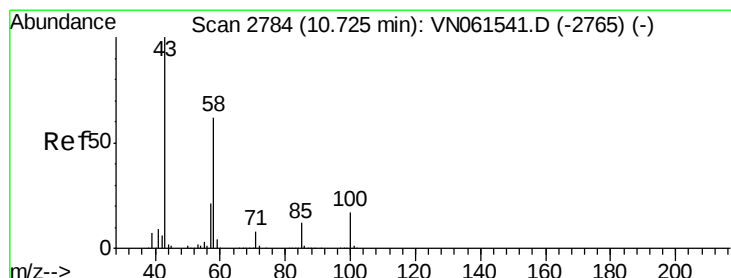
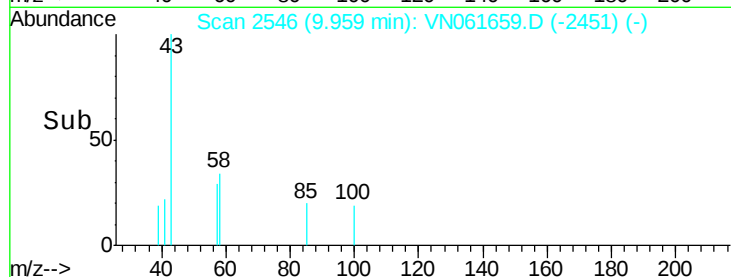
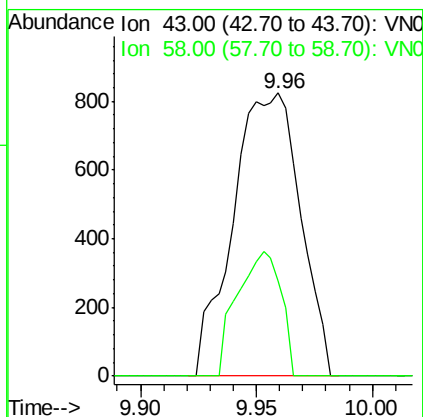
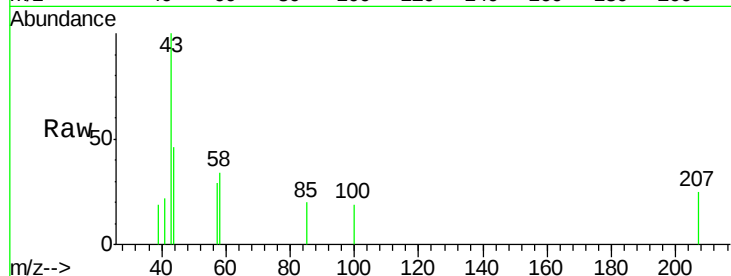




#51
 4-Methyl-2-Pentanone
 Concen: 0.50 ug/l
 RT: 9.96 min Scan# 2546
 Delta R.T. 0.01 min
 Lab File: VN061659.D
 Acq: 5 Jun 2020 11:05

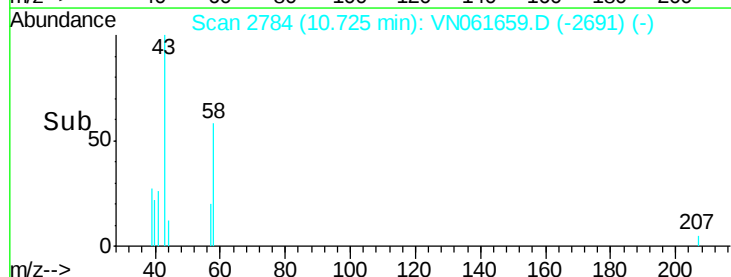
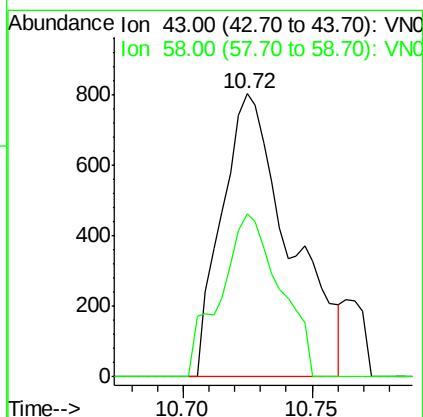
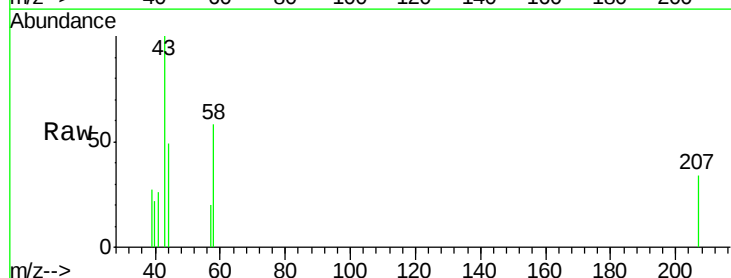
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0605WBL01

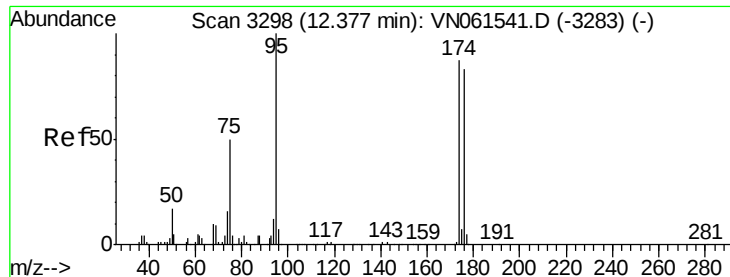
Tgt Ion: 43 Resp: 1665
 Ion Ratio Lower Upper
 43 100
 58 28.5 35.0 52.6#



#59
 2-Hexanone
 Concen: 0.62 ug/l
 RT: 10.72 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VN061659.D
 Acq: 5 Jun 2020 11:05

Tgt Ion: 43 Resp: 1476
 Ion Ratio Lower Upper
 43 100
 58 50.5 30.7 92.1

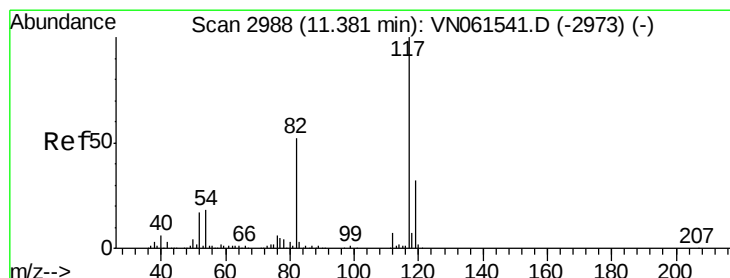
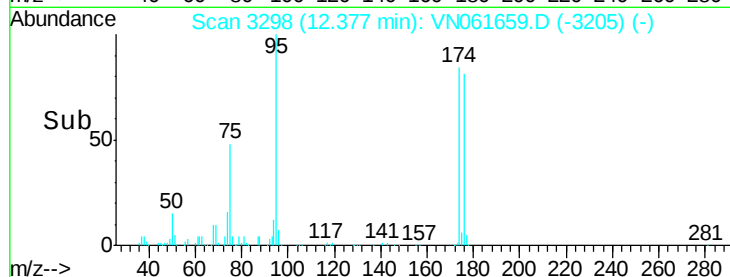
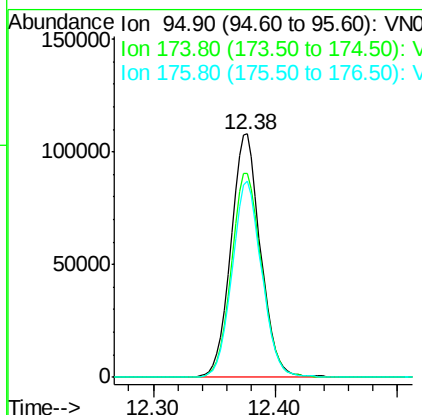
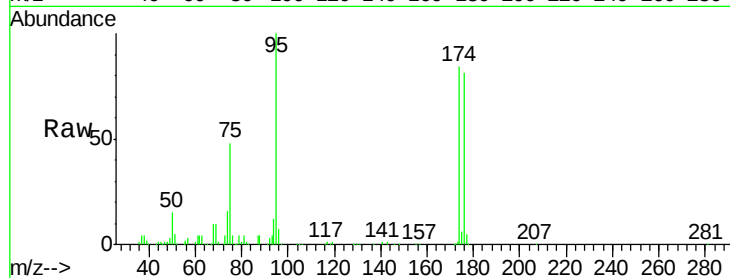




#62
4-Bromofluorobenzene
Concen: 46.15 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

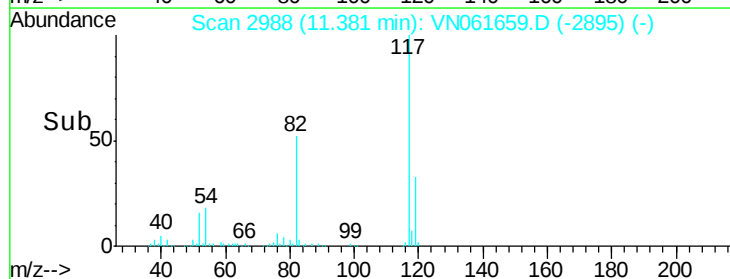
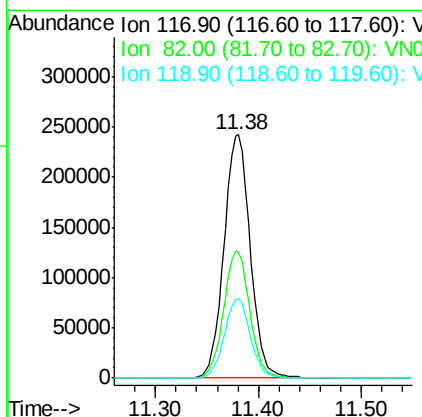
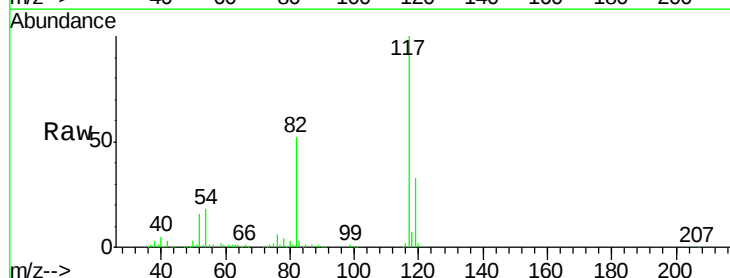
Instrument :
MSVOA_N
ClientSampled :
VN0605WBL01

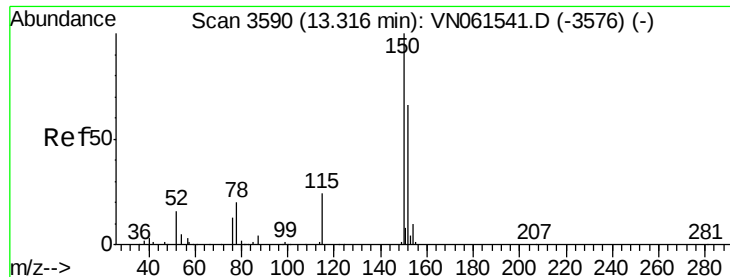
Tgt Ion: 95 Resp: 182625
Ion Ratio Lower Upper
95 100
174 85.2 0.0 172.8
176 80.4 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

Tgt Ion: 117 Resp: 429906
Ion Ratio Lower Upper
117 100
82 51.8 41.5 62.3
119 32.8 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0605WBL01

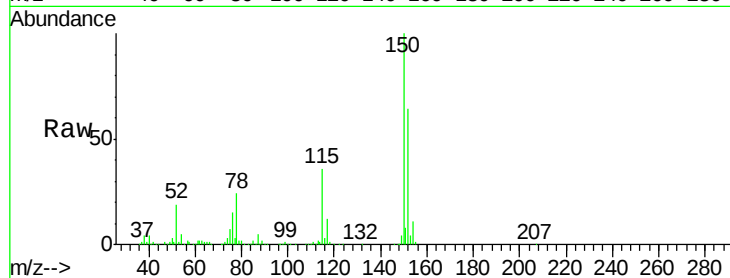
Tgt Ion: 152 Resp: 175682

Ion Ratio Lower Upper

152 100

115 56.6 28.0 84.0

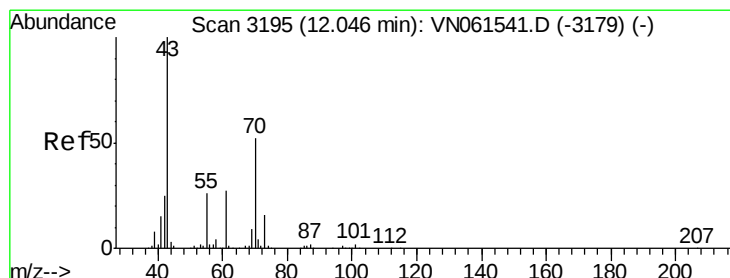
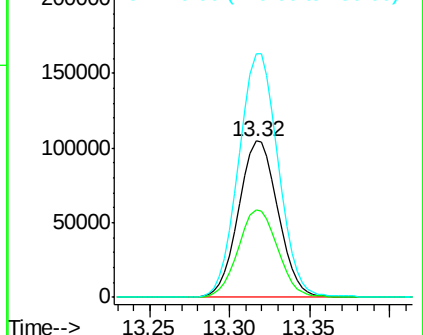
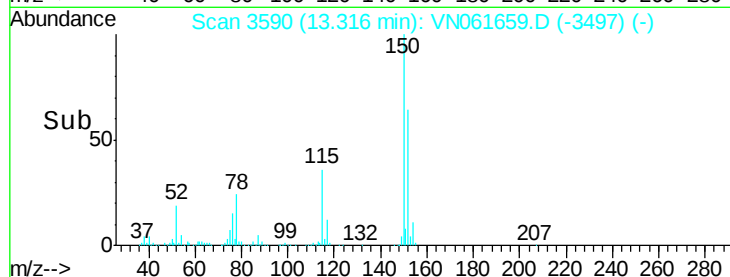
150 157.2 0.0 344.0



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: 0.21 ug/l

RT: 12.05 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

Tgt Ion: 43 Resp: 867

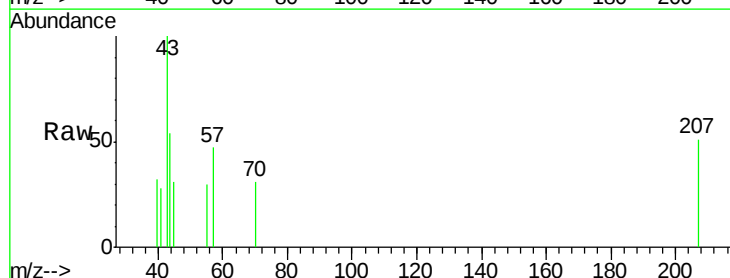
Ion Ratio Lower Upper

43 100

70 27.0 40.5 60.7#

55 7.2 20.6 31.0#

61 0.0 21.8 32.6#

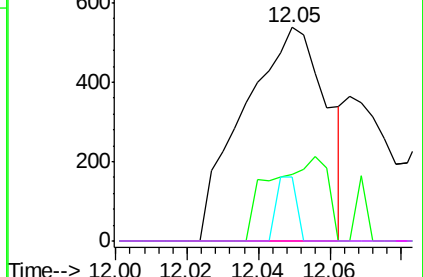
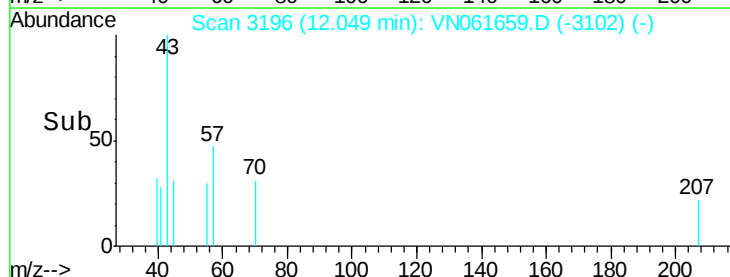


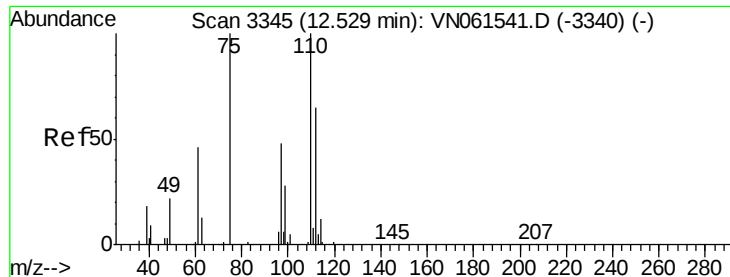
Abundance Ion 43.00 (42.70 to 43.70): V

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: 27.96 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

Instrument :

MSVOA_N

ClientSampleId :

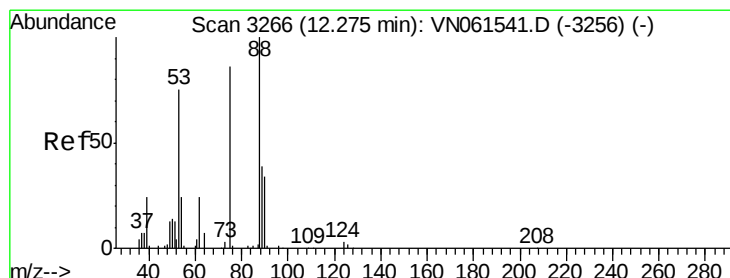
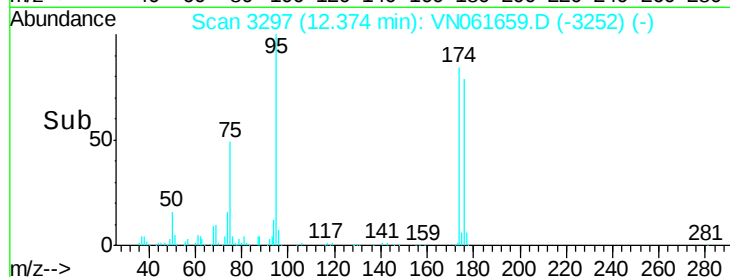
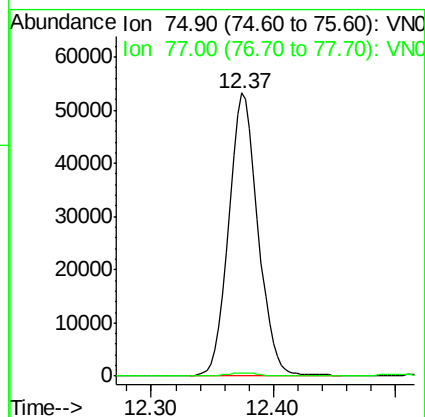
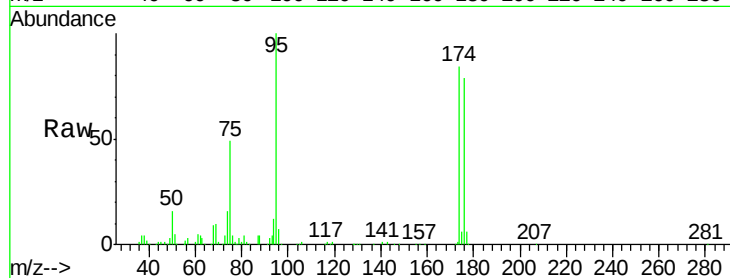
VN0605WBL01

Tgt Ion: 75 Resp: 89333

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.51 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061659.D

Acq: 5 Jun 2020 11:05

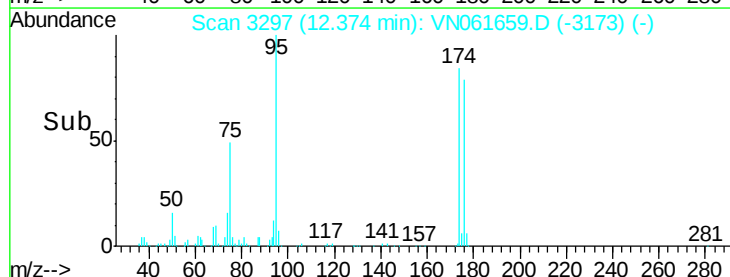
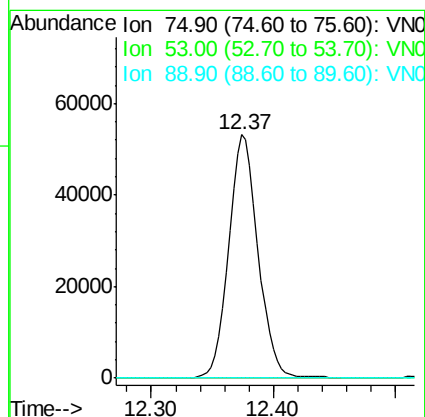
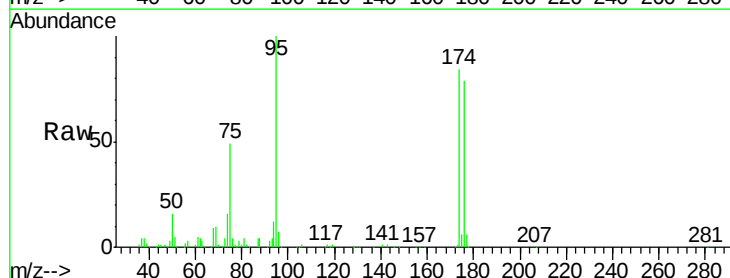
Tgt Ion: 75 Resp: 89333

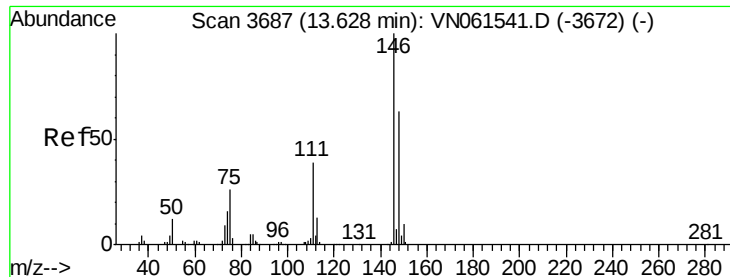
Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#

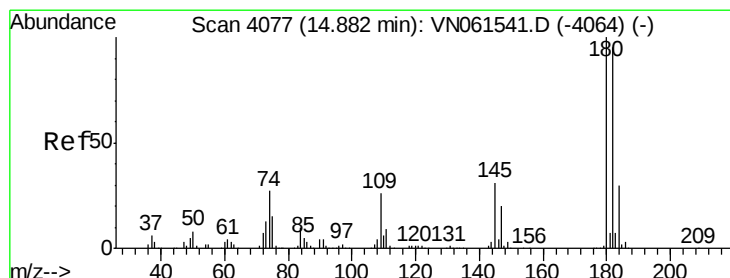
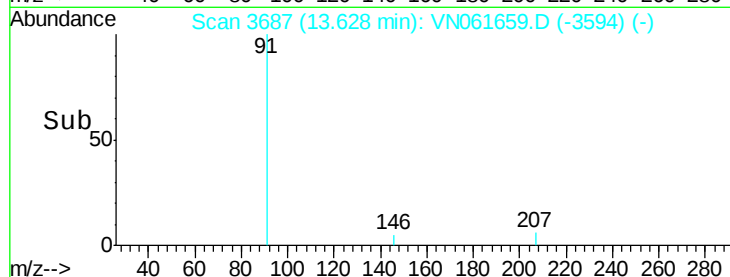
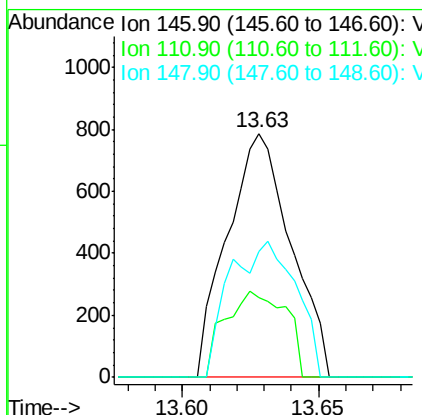
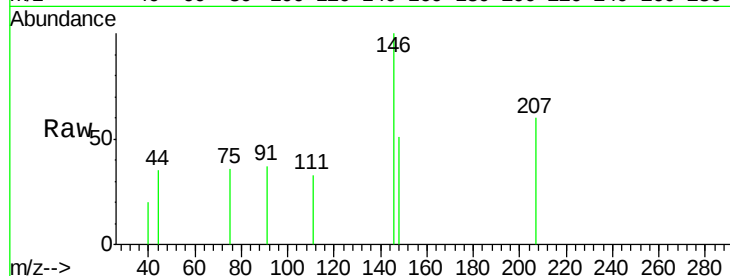




#91
 1,2-Dichlorobenzene
 Concen: 0.23 ug/l
 RT: 13.63 min Scan# 3687
 Delta R.T. -0.00 min
 Lab File: VN061659.D
 Acq: 5 Jun 2020 11:05

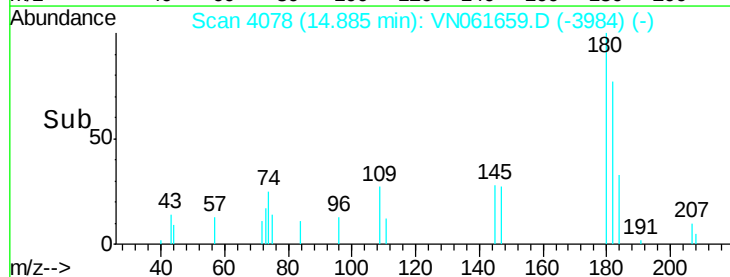
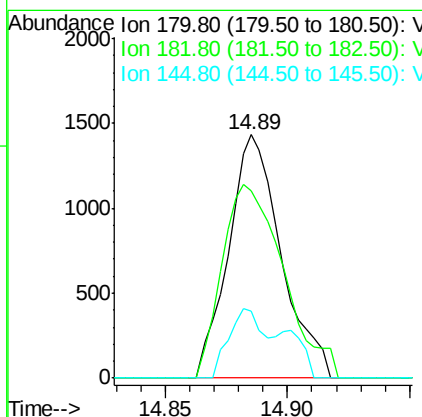
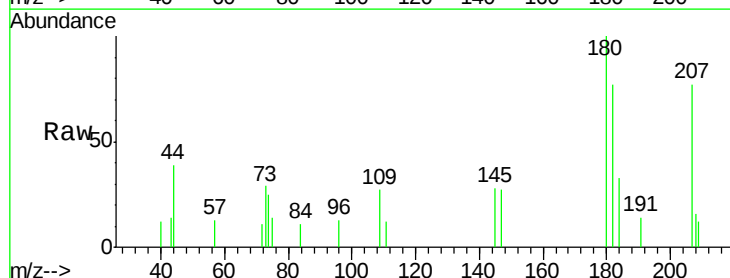
Instrument :
 MSVOA_N
 ClientSampled :
 VN0605WBL01

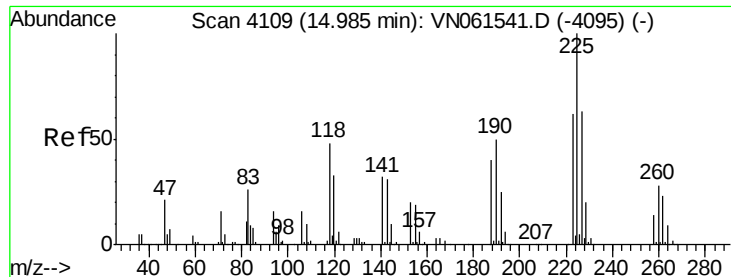
Tgt Ion:146 Resp: 1273
 Ion Ratio Lower Upper
 146 100
 111 33.7 20.1 60.2
 148 58.4 31.9 95.5



#93
 1,2,4-Trichlorobenzene
 Concen: 0.66 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN061659.D
 Acq: 5 Jun 2020 11:05

Tgt Ion:180 Resp: 2138
 Ion Ratio Lower Upper
 180 100
 182 93.1 47.8 143.3
 145 18.4 15.5 46.5

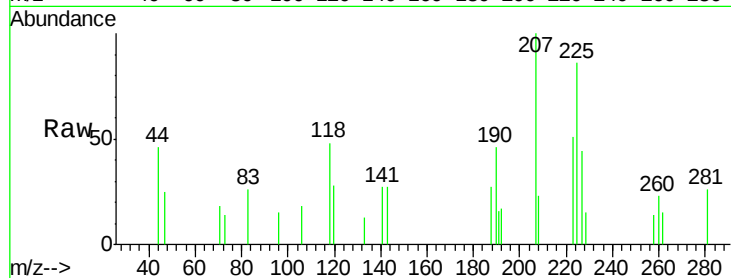




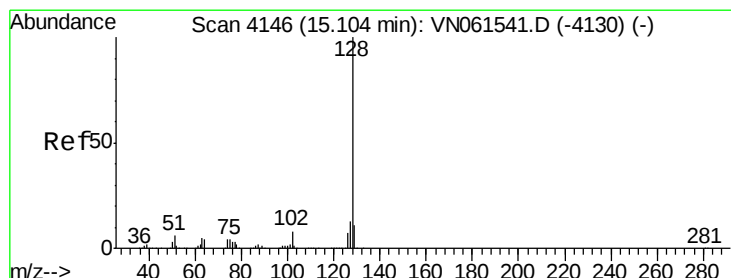
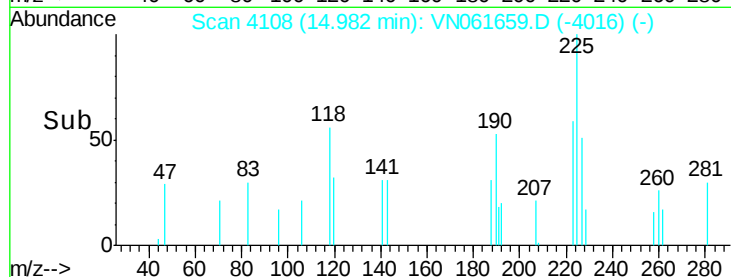
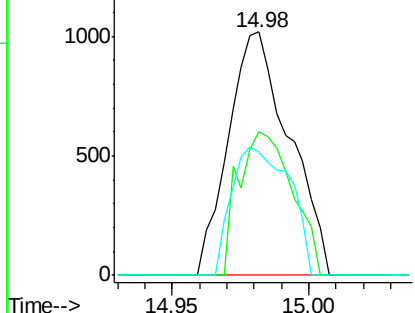
#94
Hexachlorobutadiene
Concen: 1.15 ug/l
RT: 14.98 min Scan# 4108
Delta R.T. -0.00 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

Instrument :
MSVOA_N
ClientSampled :
VN0605WBL01

Tgt Ion: 225 Resp: 1585
Ion Ratio Lower Upper
225 100
223 52.2 31.9 95.5
227 50.0 31.9 95.9

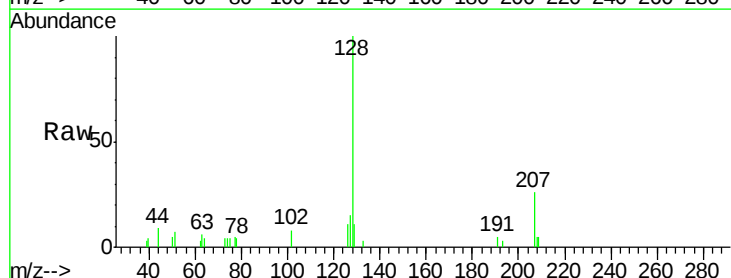


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

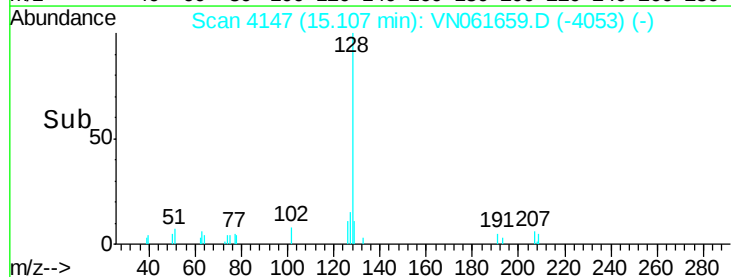
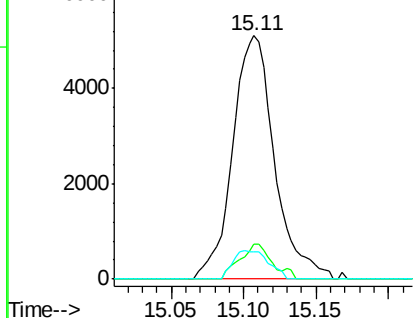


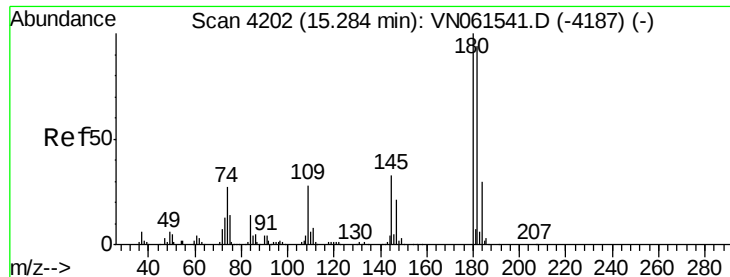
#95
Naphthalene
Concen: 1.04 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061659.D
Acq: 5 Jun 2020 11:05

Tgt Ion: 128 Resp: 10236
Ion Ratio Lower Upper
128 100
127 11.3 10.0 15.0
129 9.9 8.5 12.7



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

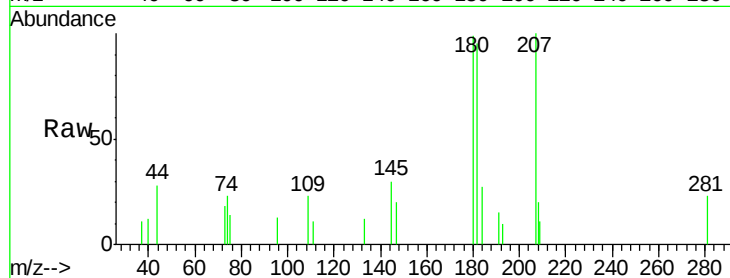




#96
 1,2,3-Trichlorobenzene
 Concen: 0.83 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. -0.00 min
 Lab File: VN061659.D
 Acq: 5 Jun 2020 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0605WBL01

Tgt Ion:180 Resp: 2644
 Ion Ratio Lower Upper
 180 100
 182 88.8 47.1 141.3
 145 31.2 16.3 48.9



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

