

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061578.D
 Acq On : 29 May 2020 19:29
 Operator : JC/MD
 Sample : L2790-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

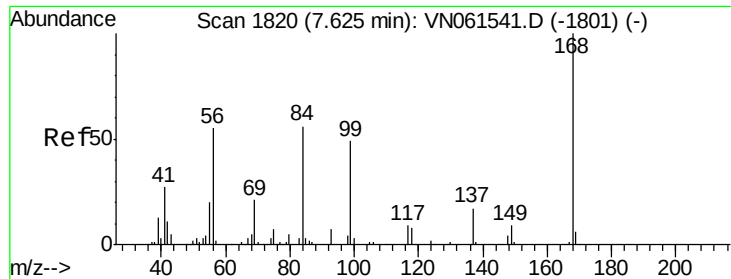
Quant Time: May 30 04:46:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	257084	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	469379	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	486496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	217707	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	168747	55.09	ug/l	0.00
Spiked Amount			Recovery	=	110.18%	
35) Dibromofluoromethane	7.55	113	136451	57.31	ug/l	0.00
Spiked Amount			Recovery	=	114.62%	
50) Toluene-d8	10.06	98	590640	53.53	ug/l	0.00
Spiked Amount			Recovery	=	107.06%	
62) 4-Bromofluorobenzene	12.38	95	223805	55.59	ug/l	0.00
Spiked Amount			Recovery	=	111.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	791	1.942	ug/l #	72
16) Acetone	3.78	43	10287	6.138	ug/l	100
18) Methyl Acetate	4.28	43	2324	0.838	ug/l	91
20) Methylene Chloride	4.50	84	5802	0.357	ug/l	89
25) 2-Butanone	6.80	43	5715	3.937	ug/l	99
29) Tetrahydrofuran	7.17	42	208	0.217	ug/l #	36
31) Cyclohexane	7.62	56	5289	1.225	ug/l #	28
36) 1,1-Dichloropropene	7.62	75	19694	4.740	ug/l #	47
38) Carbon Tetrachloride	7.63	117	26094	6.510	ug/l #	15
43) Isopropyl Acetate	8.12	43	64174	10.658	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1696	0.557	ug/l #	44
48) Methyl methacrylate	9.14	41	3945	1.456	ug/l #	5
51) 4-Methyl-2-Pentanone	9.96	43	4810	1.418	ug/l	91
52) Toluene	10.13	92	1734	0.207	ug/l #	49
54) cis-1,3-Dichloropropene	9.87	75	33560	6.263	ug/l #	63
56) Ethyl methacrylate	10.52	69	1048	0.225	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5352	1.004	ug/l #	42
59) 2-Hexanone	10.74	43	64003	26.265	ug/l #	50
71) Bromoform	12.38	173	1575	0.543	ug/l #	1
74) N-amyl acetate	12.00	43	2972	0.594	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	111179	28.084	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	111179	71.819	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

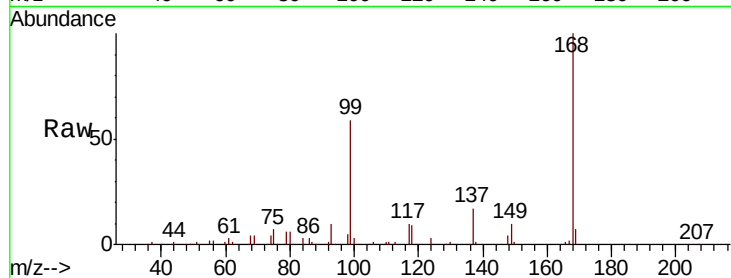
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 257084

Ion Ratio Lower Upper

168 100

99 59.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

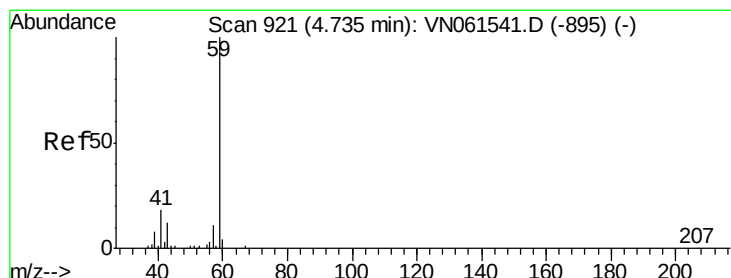
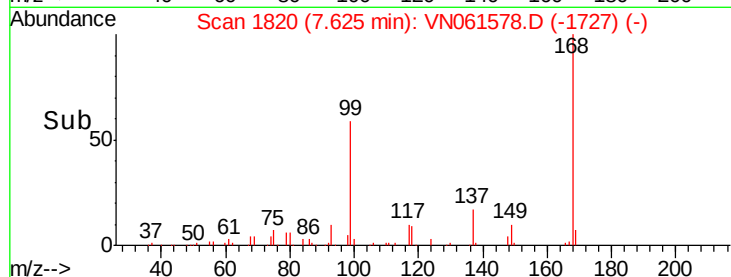
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 1.942 ug/l

RT: 4.74 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN061578.D

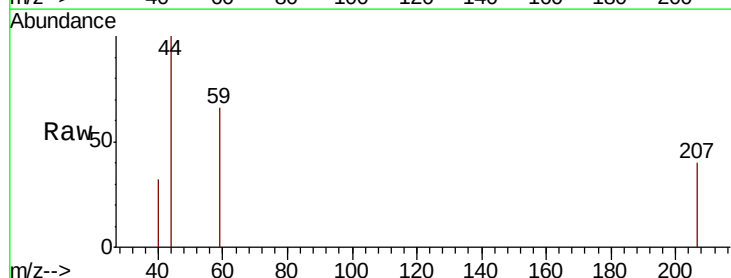
Acq: 29 May 2020 19:29

Tgt Ion: 59 Resp: 791

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

400

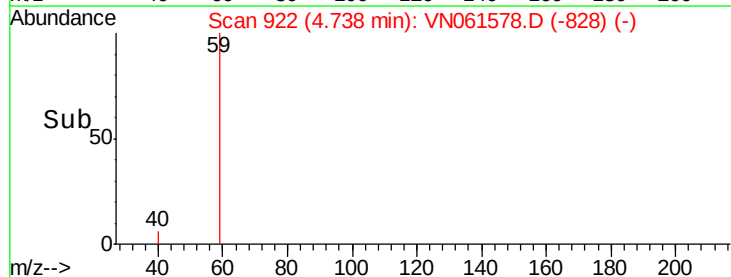
300

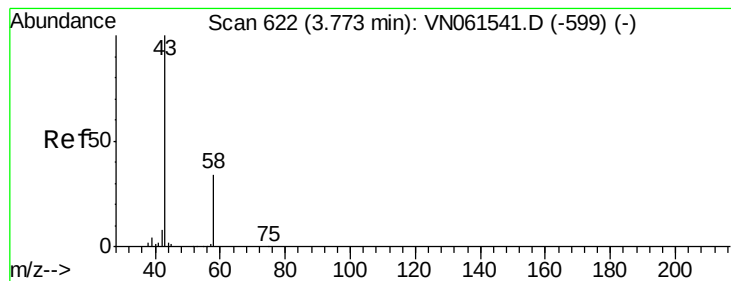
200

100

0

Time--> 4.70 4.75





#16

Acetone

Concen: 6.138 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

Instrument :

MSVOA_N

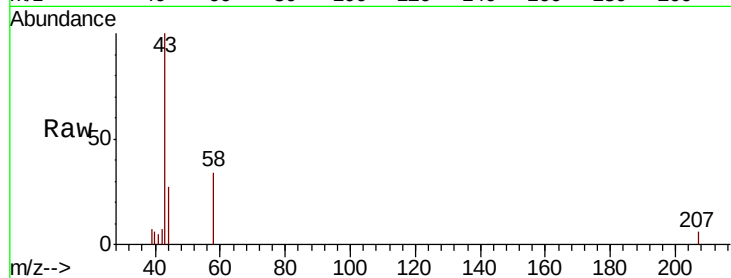
ClientSampleId :

Tot Ion: 43 Resp: 10287

Ion Ratio Lower Upper

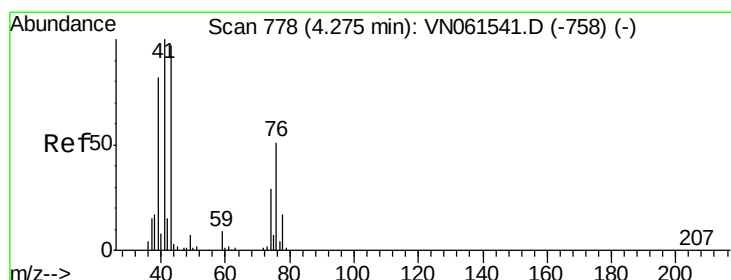
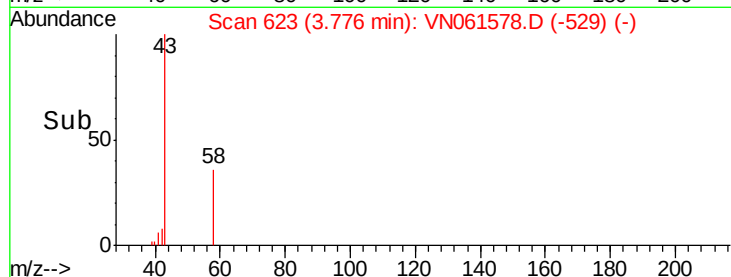
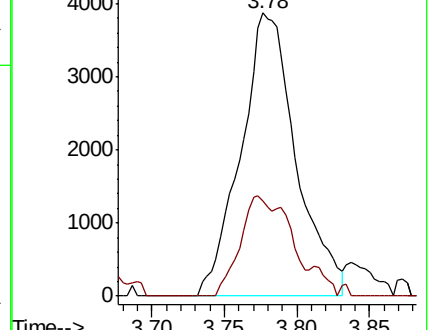
43 100

58 33.7 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN061578.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN061578.D (-529) (-)



#18

Methyl Acetate

Concen: 0.838 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN061578.D

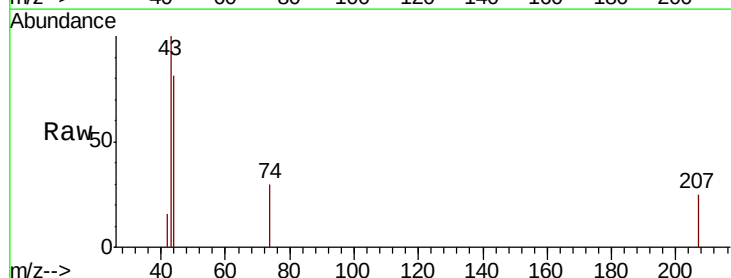
Acq: 29 May 2020 19:29

Tgt Ion: 43 Resp: 2324

Ion Ratio Lower Upper

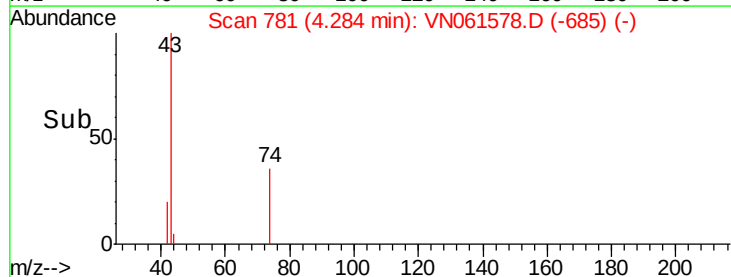
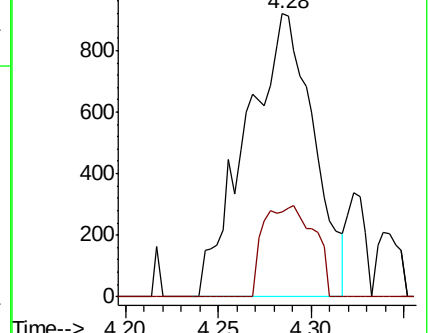
43 100

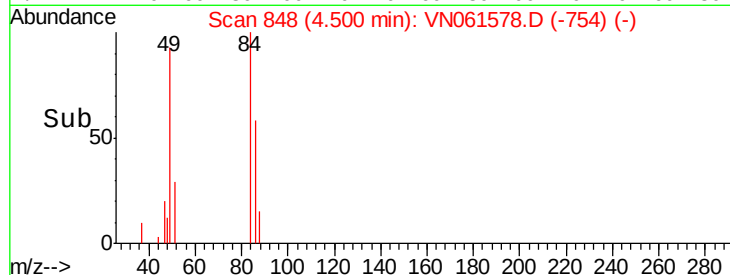
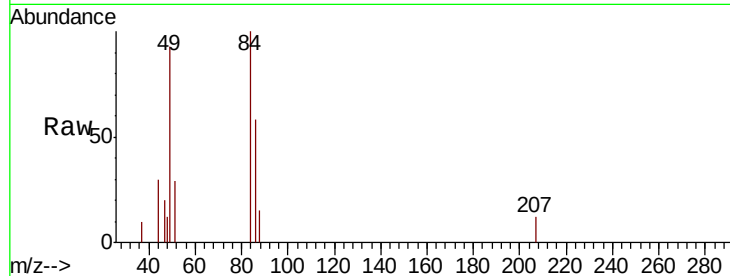
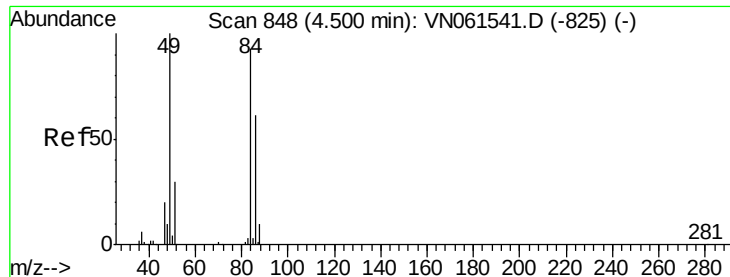
74 24.3 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VN061578.D (-685) (-)

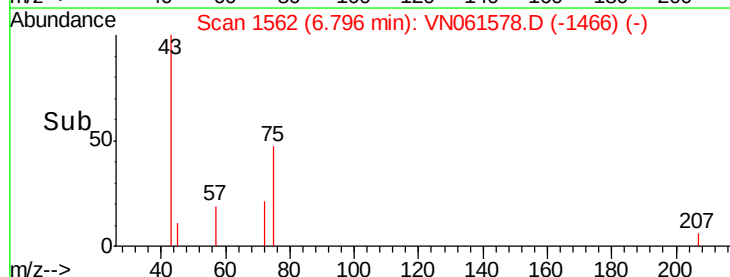
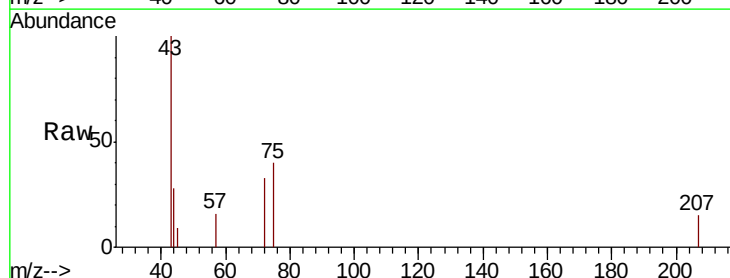
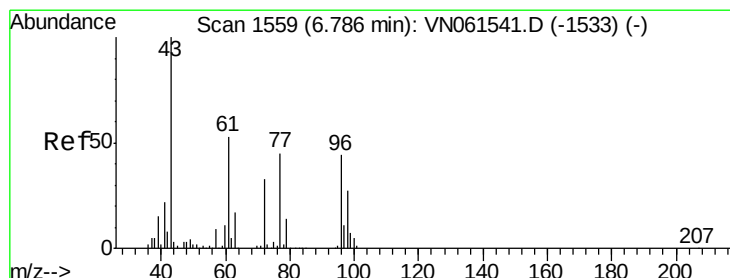
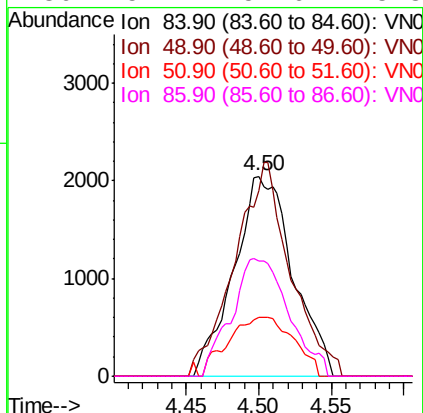
Ion 74.00 (73.70 to 74.70): VN061578.D (-685) (-)





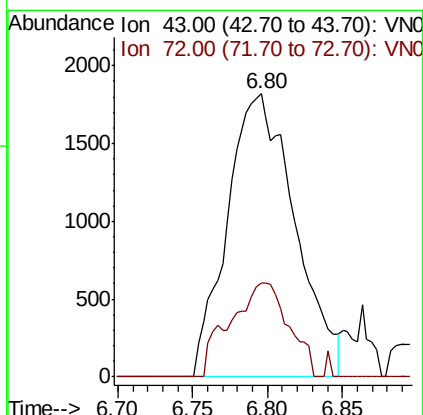
#20
Methylene Chloride
Concen: 0.357 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061578.D
Acq: 29 May 2020 19:29

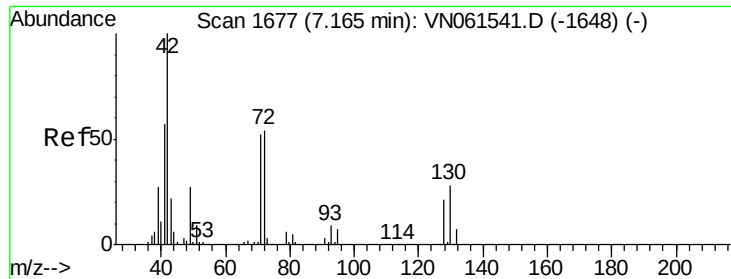
Tot Ion:	84	Resp:	5802
Ion	Ratio	Lower	Upper
84	100		
49	92.7	85.8	128.8
51	29.5	26.2	39.2
86	57.7	52.6	78.8



#25
2-Butanone
Concen: 3.937 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN061578.D
Acq: 29 May 2020 19:29

Tgt Ion:	43	Resp:	5715
Ion	Ratio	Lower	Upper
43	100		
72	33.0	26.0	39.0

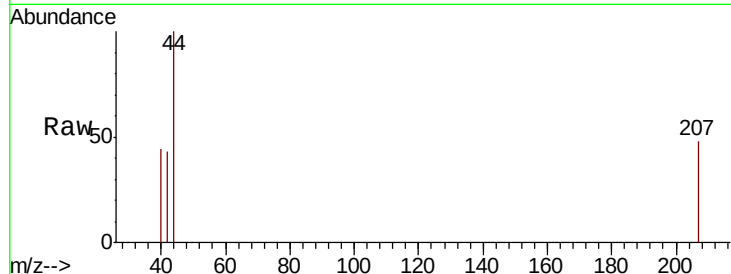




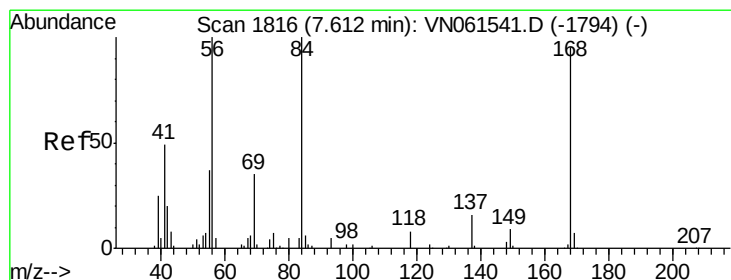
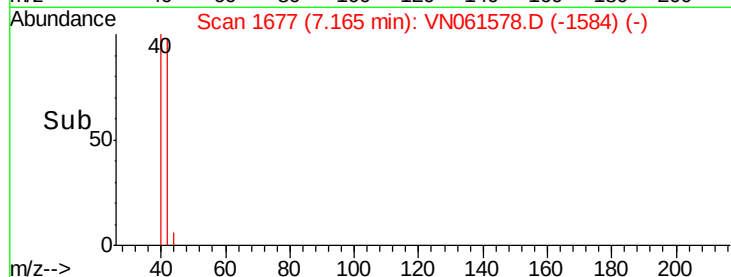
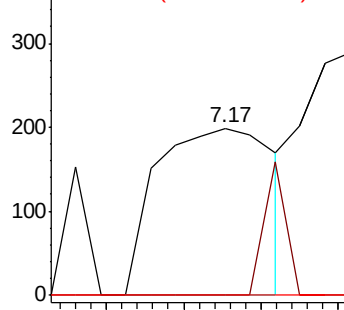
#29
Tetrahydrofuran
Concen: 0.217 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.00 min
Lab File: VN061578.D
Acq: 29 May 2020 19:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 208
Ion Ratio Lower Upper
42 100
72 14.9 43.6 65.4#
71 0.0 41.2 61.8#

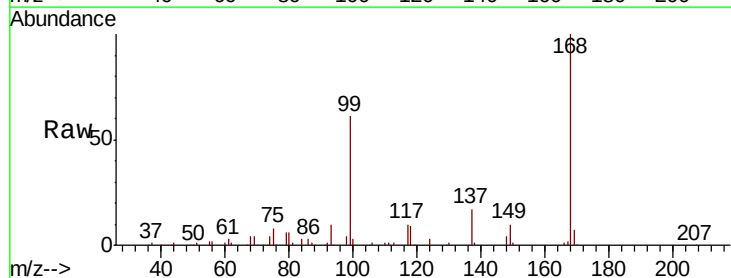


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

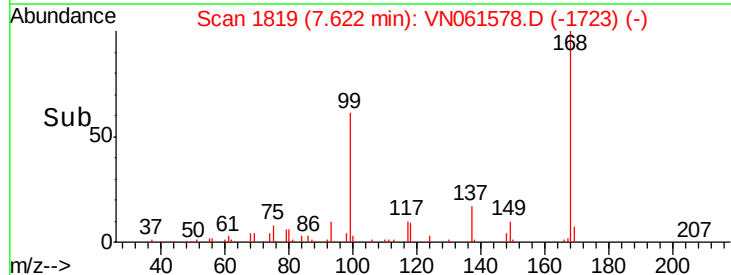
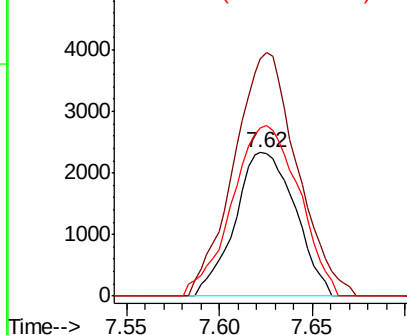


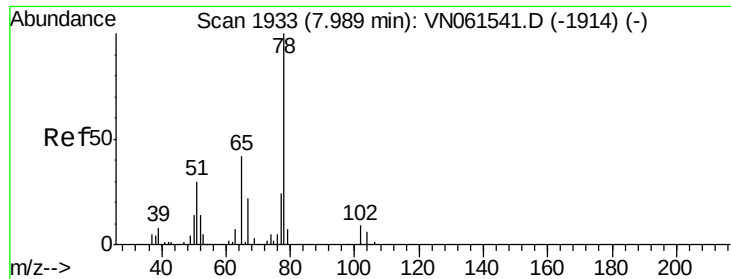
#31
Cyclohexane
Concen: 1.225 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061578.D
Acq: 29 May 2020 19:29

Tgt Ion: 56 Resp: 5289
Ion Ratio Lower Upper
56 100
69 165.5 27.8 41.8#
84 117.8 79.9 119.9



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

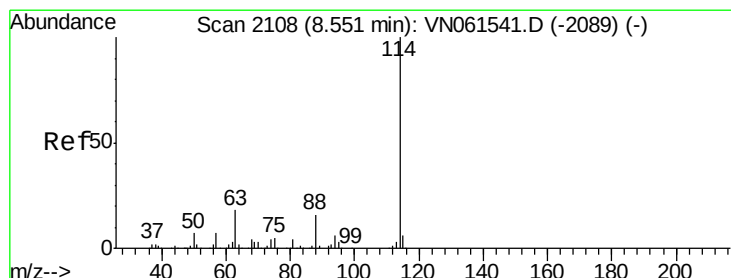
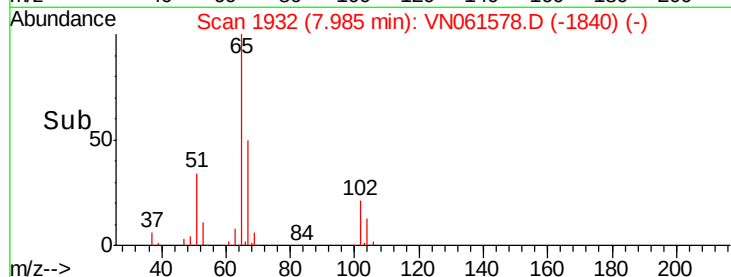
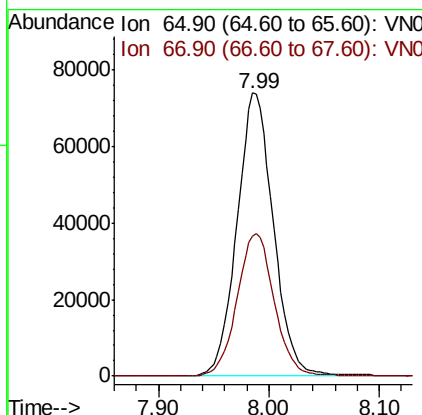
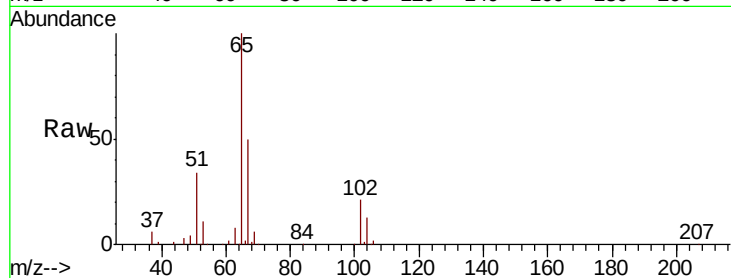




#33
 1,2-Dichloroethane-d4
 Concen: 55.092 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

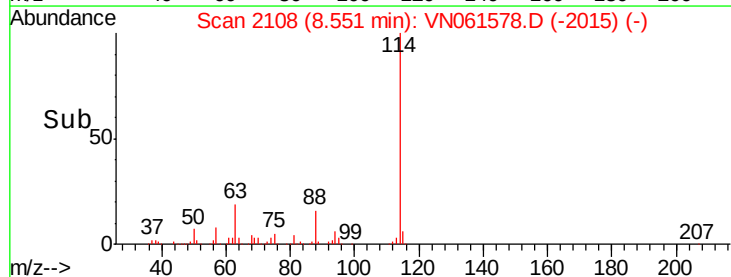
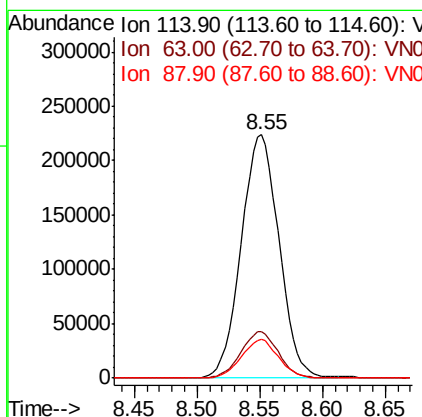
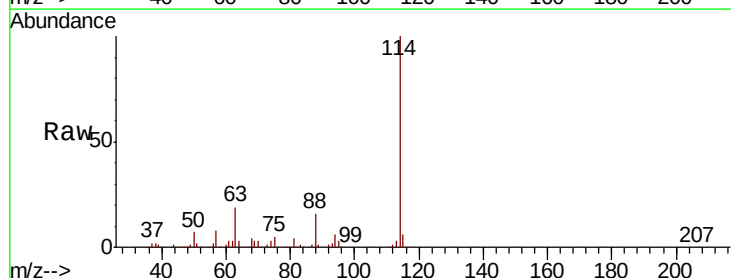
Instrument :
 MSVOA_N
 ClientSampleId :

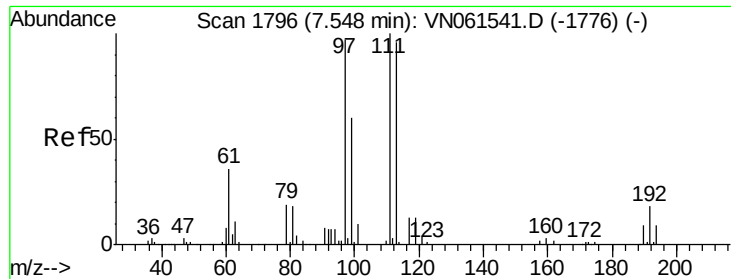
Tot Ion: 65 Resp: 168747
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

Tgt Ion: 114 Resp: 469379
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 35.8
 88 16.0 0.0 31.0

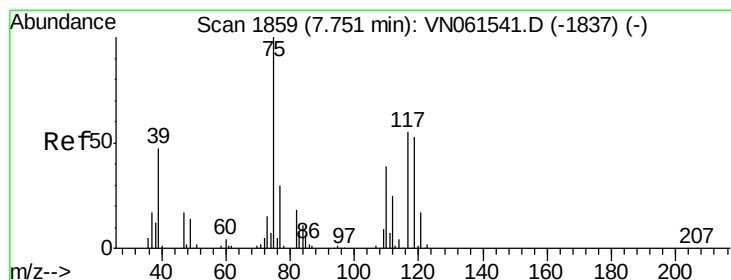
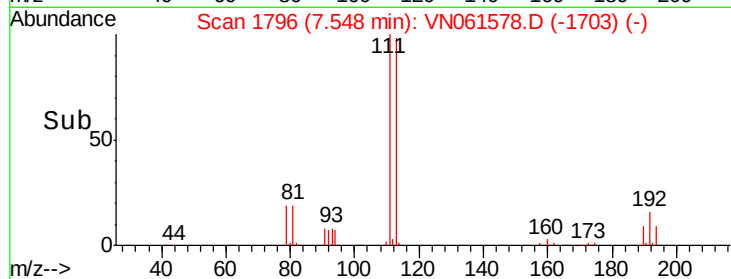
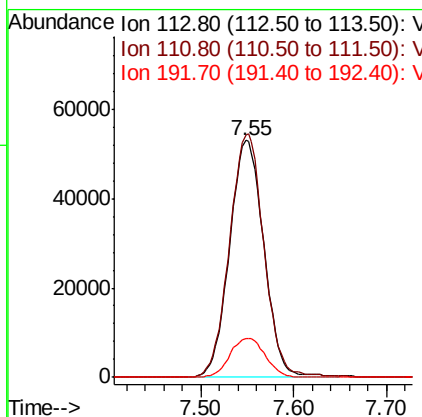
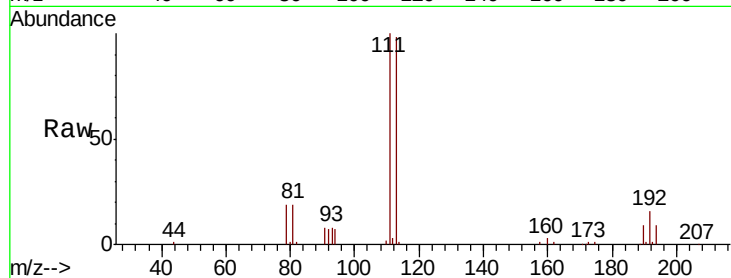




#35
 Dibromofluoromethane
 Concen: 57.307 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

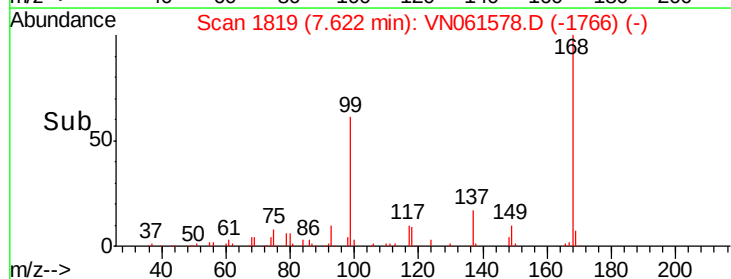
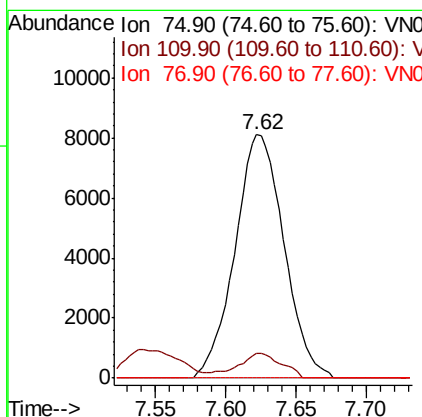
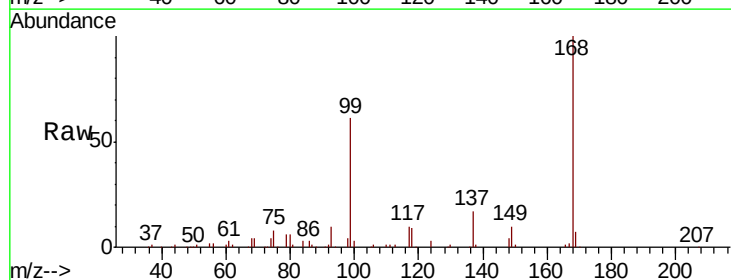
Instrument :
 MSVOA_N
 ClientSampleId :

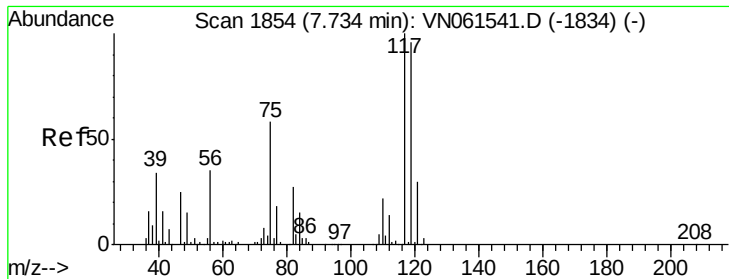
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.4	125.0
192	17.0	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.740 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	19.5	58.5#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.510 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

Instrument :

MSVOA_N

ClientSampled :

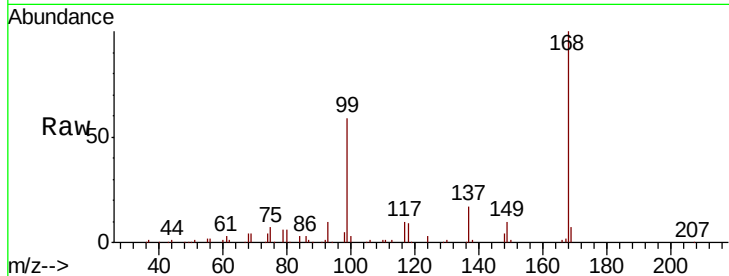
Tot Ion:117 Resp: 26094

Ion Ratio Lower Upper

117 100

119 4.1 76.5 114.7#

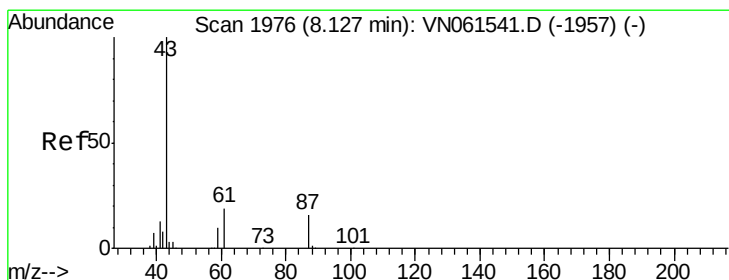
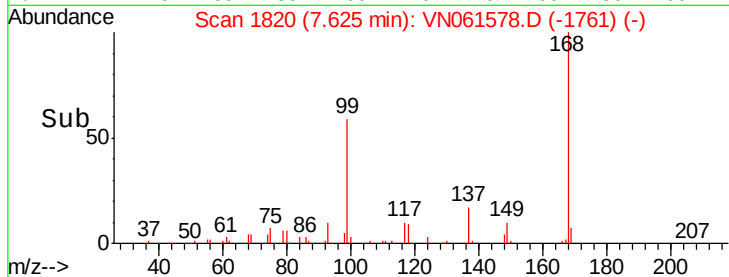
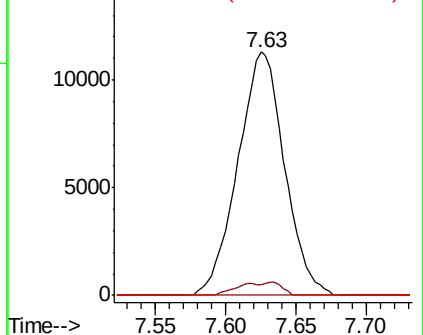
121 0.0 24.1 36.1#



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



#43

Isopropyl Acetate

Concen: 10.658 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

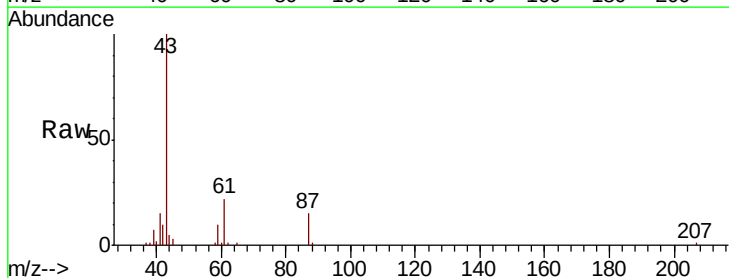
Tgt Ion: 43 Resp: 64174

Ion Ratio Lower Upper

43 100

61 21.7 23.6 35.4#

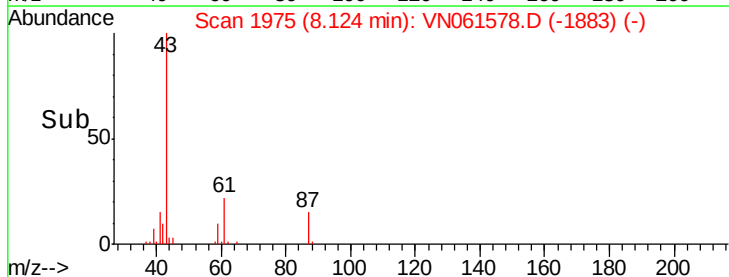
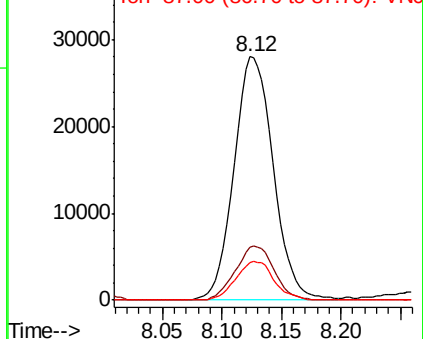
87 15.4 13.0 19.6

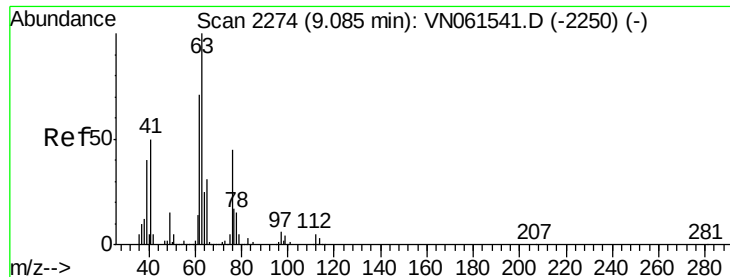


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

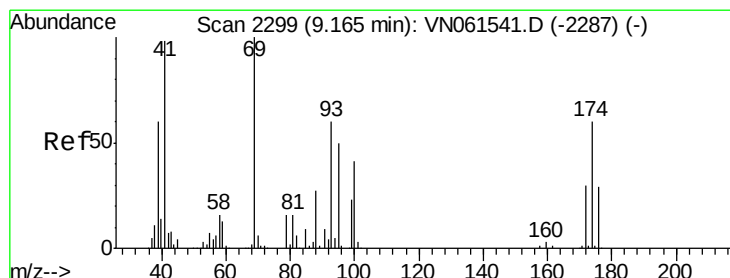
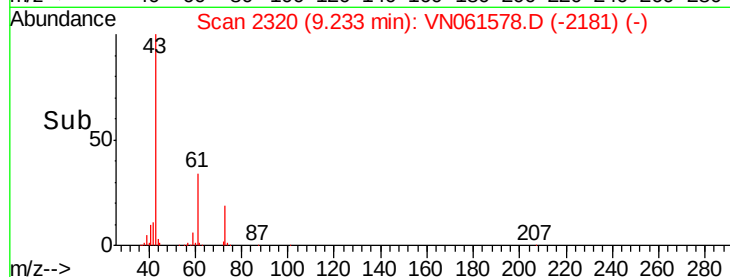
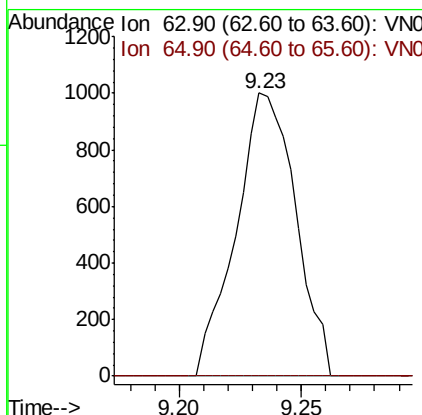
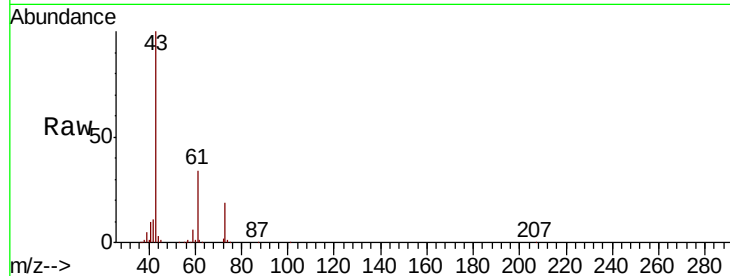




#45
 1,2-Dichloropropane
 Concen: 0.557 ug/l
 RT: 9.23 min Scan# 2320
 Delta R.T. 0.15 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

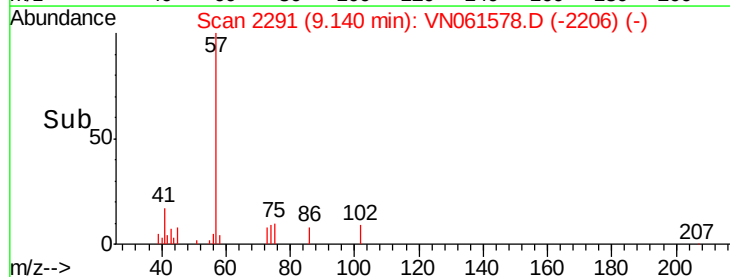
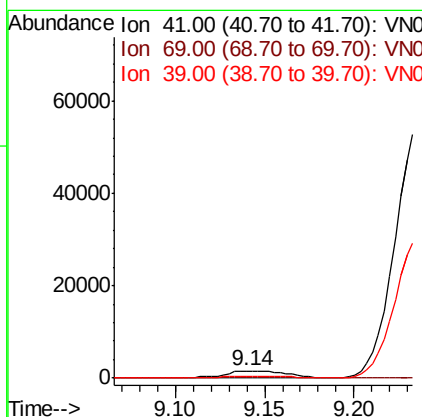
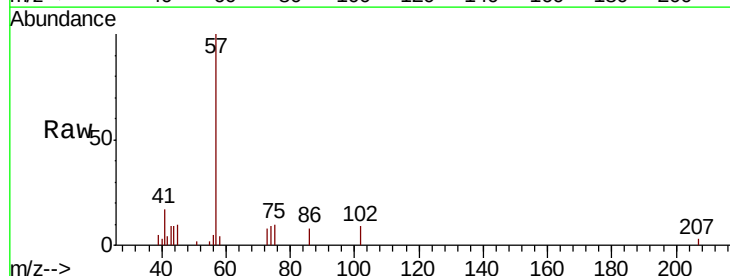
Instrument :
 MSVOA_N
 ClientSampled :

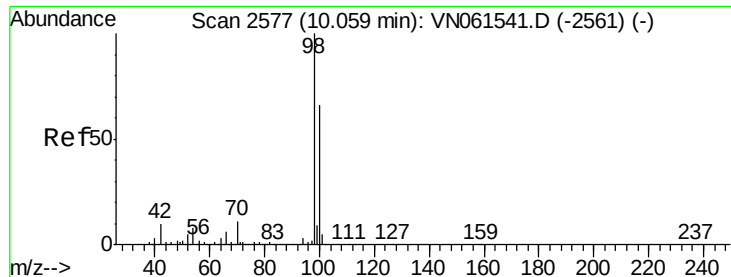
Tot Ion: 63 Resp: 1696
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.456 ug/l
 RT: 9.14 min Scan# 2291
 Delta R.T. -0.03 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

Tgt Ion: 41 Resp: 3945
 Ion Ratio Lower Upper
 41 100
 69 0.0 83.9 125.9#
 39 0.0 52.1 78.1#





#50

Toluene-d8

Concen: 53.528 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

Instrument :

MSVOA_N

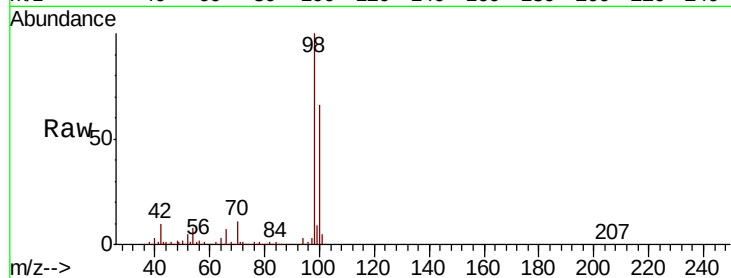
ClientSampled :

Tot Ion: 98 Resp: 590640

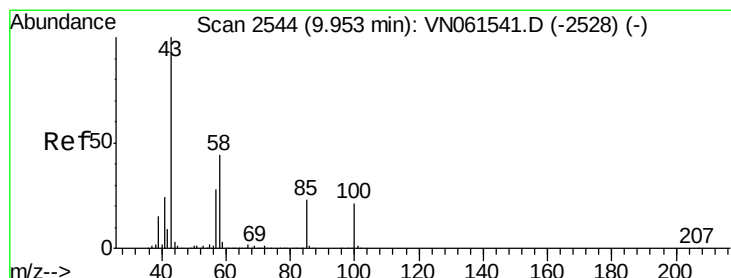
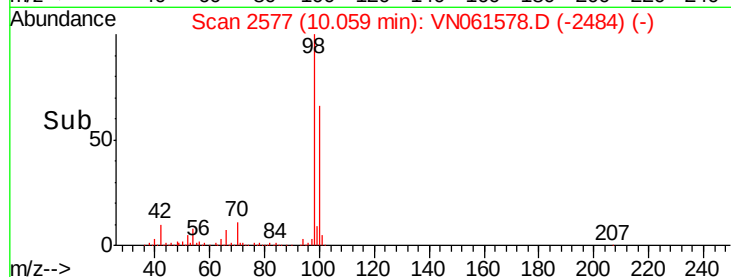
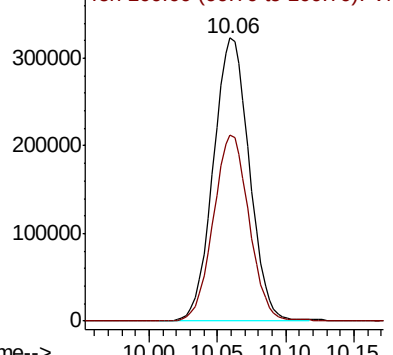
Ion Ratio Lower Upper

98 100

100 65.5 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.418 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061578.D

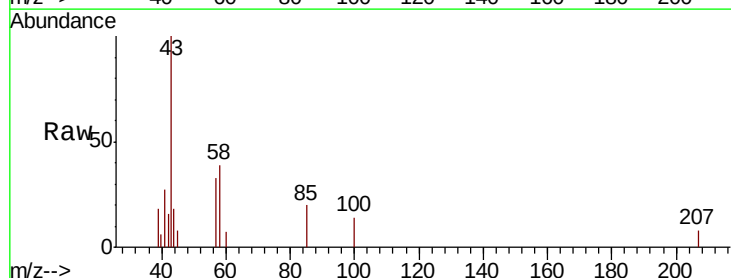
Acq: 29 May 2020 19:29

Tgt Ion: 43 Resp: 4810

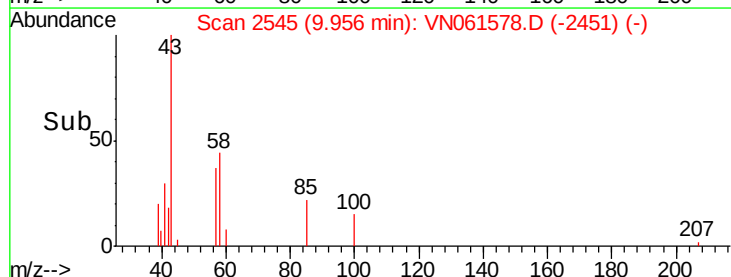
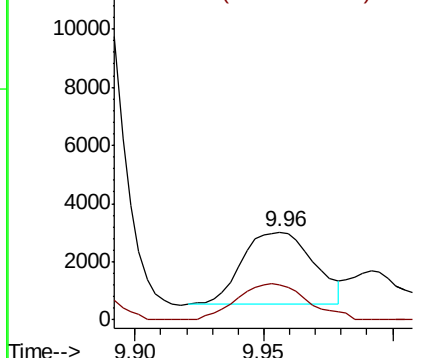
Ion Ratio Lower Upper

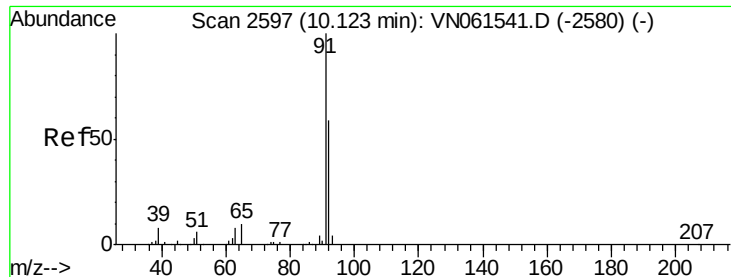
43 100

58 49.6 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)





#52

Toluene

Concen: 0.207 ug/l

RT: 10.13 min Scan# 2599

Delta R.T. 0.01 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

Instrument :

MSVOA_N

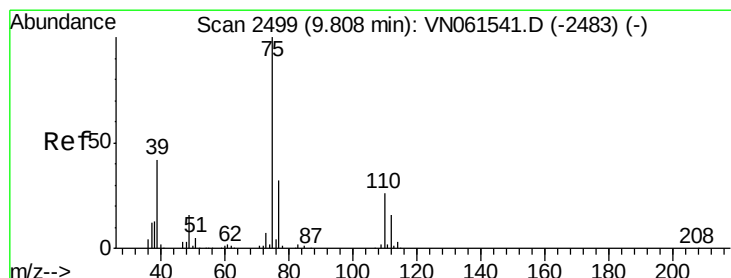
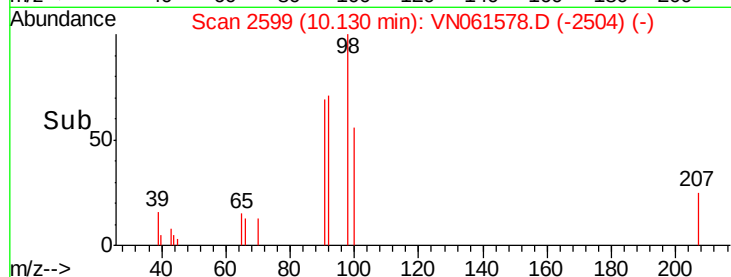
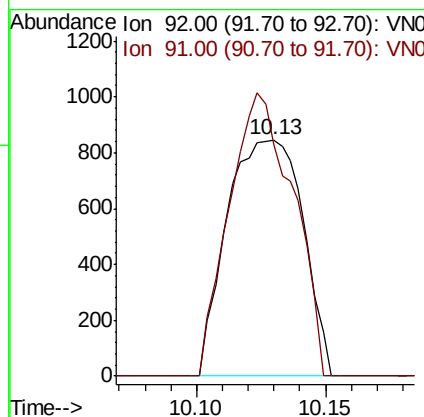
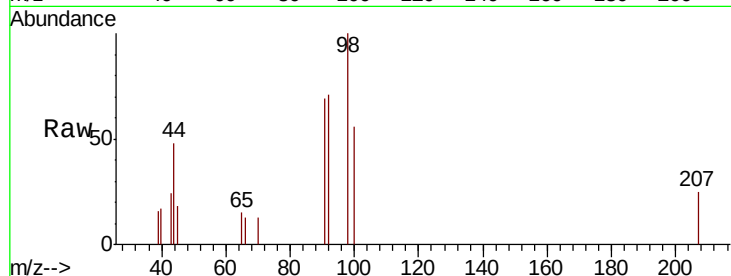
ClientSampled :

Tot Ion: 92 Resp: 1734

Ion Ratio Lower Upper

92 100

91 101.2 136.4 204.6#



#54

cis-1,3-Dichloropropene

Concen: 6.263 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

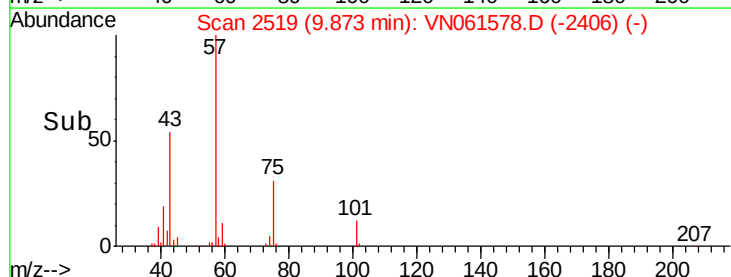
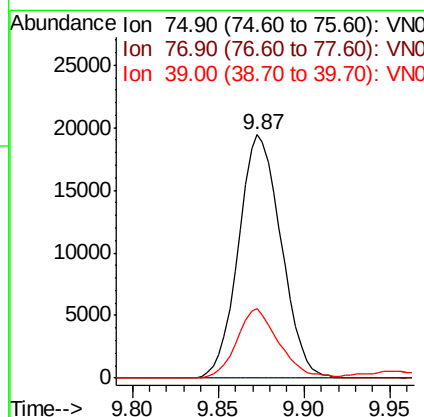
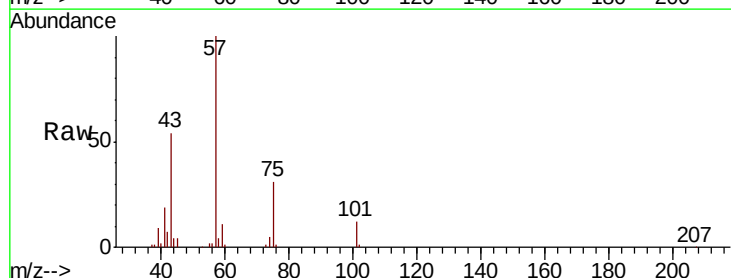
Tgt Ion: 75 Resp: 33560

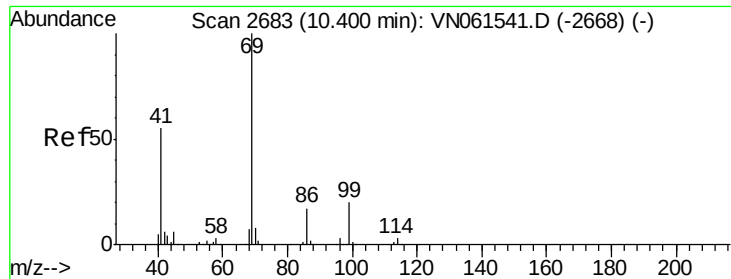
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

39 28.5 33.8 50.6#





#56

Ethyl methacrylate

Concen: 0.225 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

Instrument :

MSVOA_N

ClientSampled :

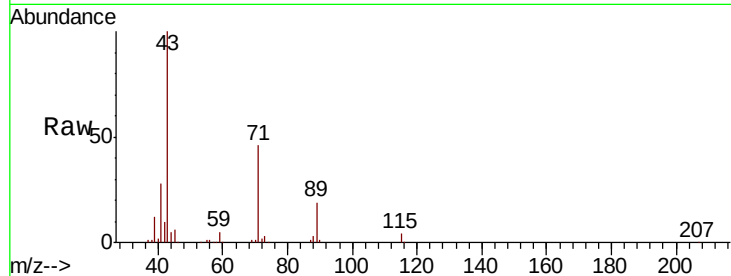
Tot Ion: 69 Resp: 1048

Ion Ratio Lower Upper

69 100

41 5432.8 43.5 65.3#

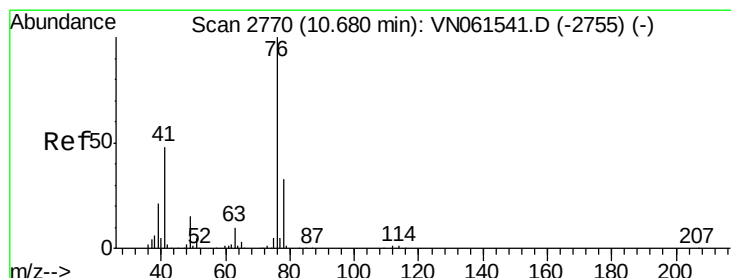
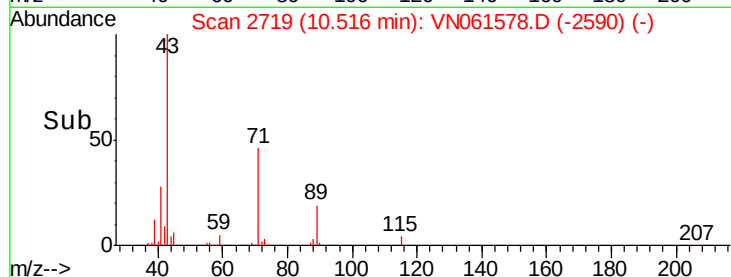
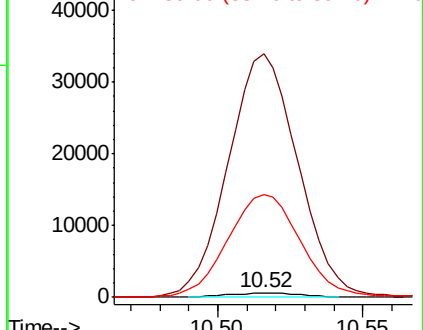
39 2404.0 27.0 40.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.004 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN061578.D

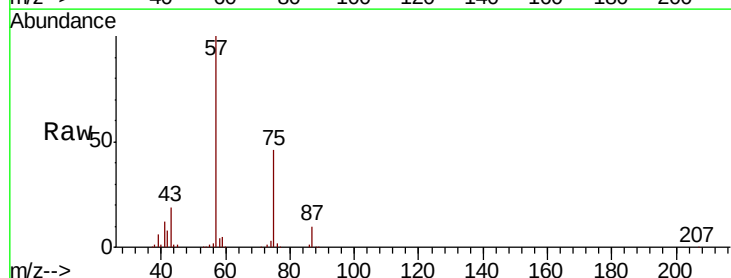
Acq: 29 May 2020 19:29

Tgt Ion: 76 Resp: 5352

Ion Ratio Lower Upper

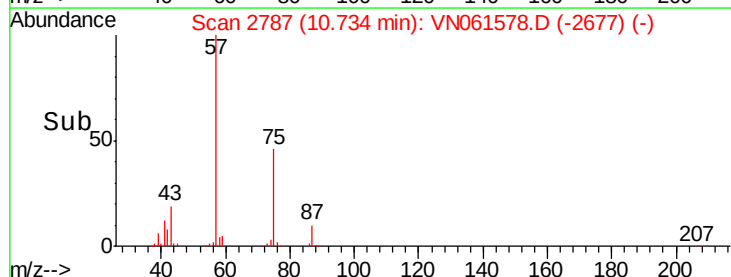
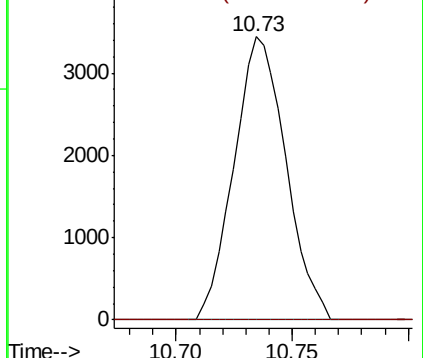
76 100

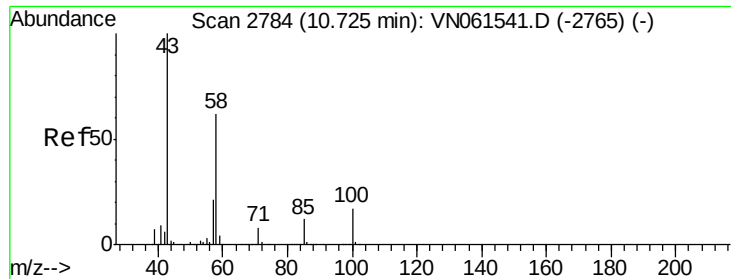
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

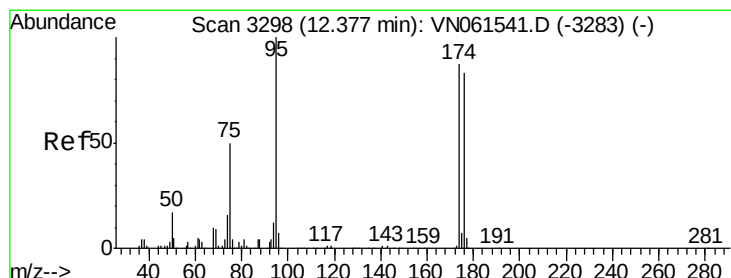
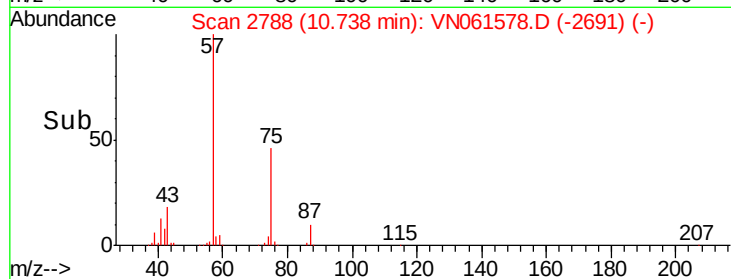
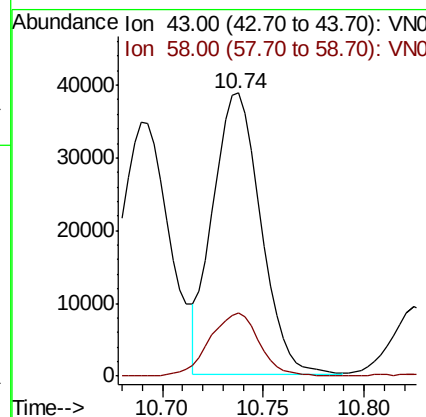
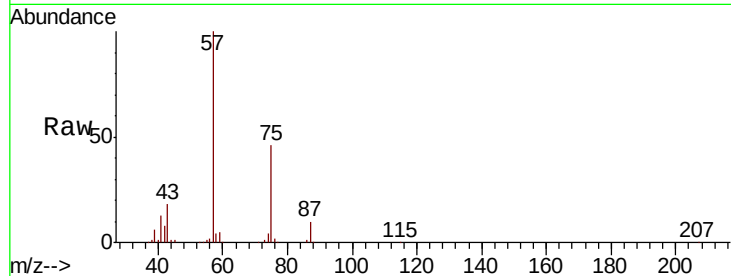




#59
 2-Hexanone
 Concen: 26.265 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

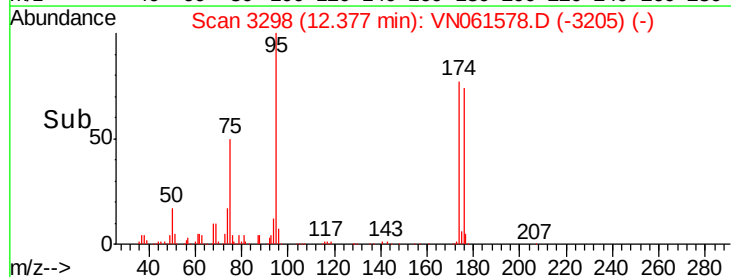
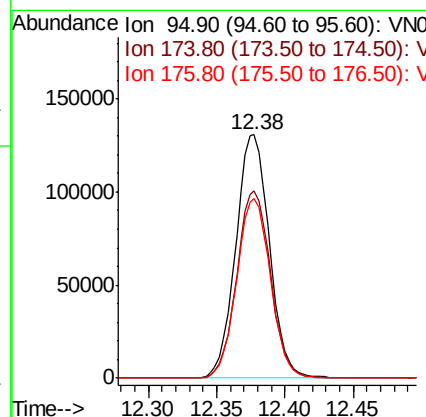
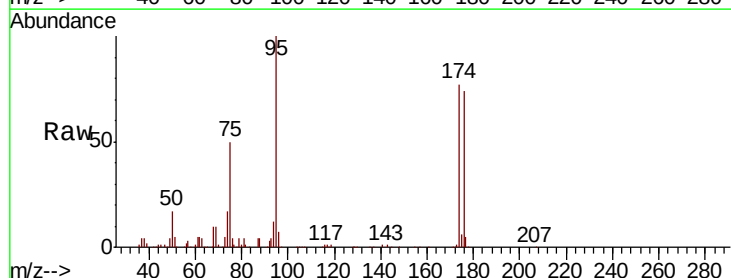
Instrument :
 MSVOA_N
 ClientSampled :

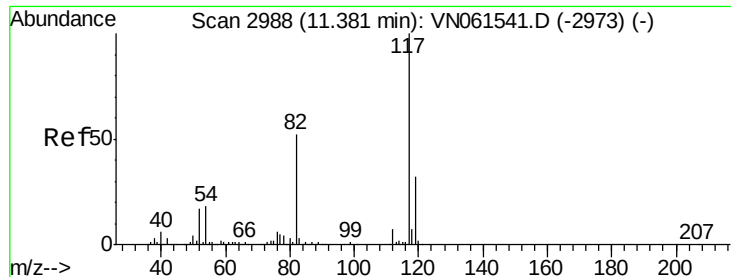
Tot Ion: 43 Resp: 64003
 Ion Ratio Lower Upper
 43 100
 58 23.1 30.7 92.1#



#62
 4-Bromofluorobenzene
 Concen: 55.595 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

Tgt Ion: 95 Resp: 223805
 Ion Ratio Lower Upper
 95 100
 174 77.5 0.0 172.8
 176 74.4 0.0 164.8

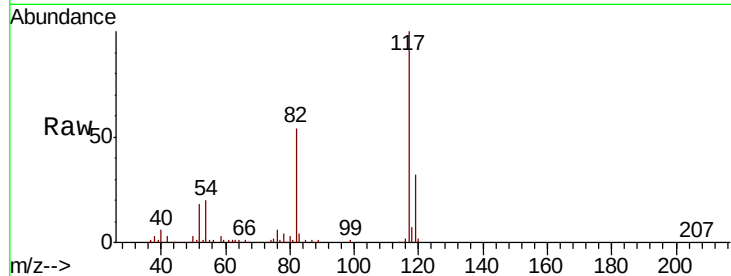




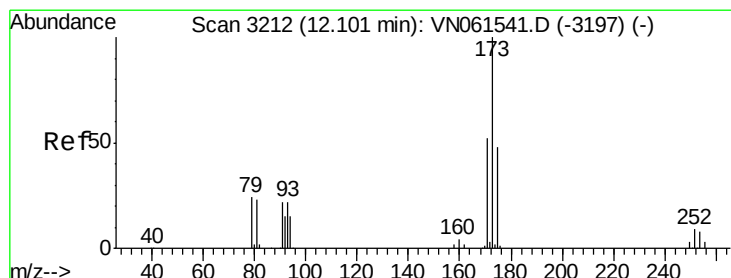
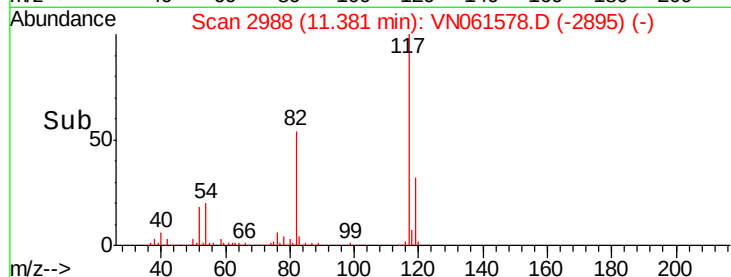
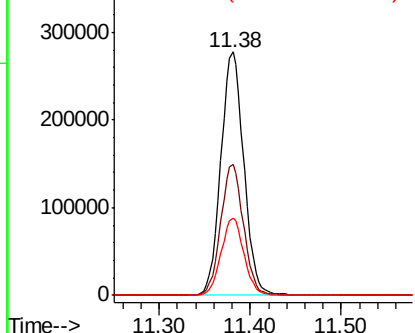
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061578.D
Acq: 29 May 2020 19:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 486496
Ion Ratio Lower Upper
117 100
82 53.7 41.5 62.3
119 31.9 25.6 38.4

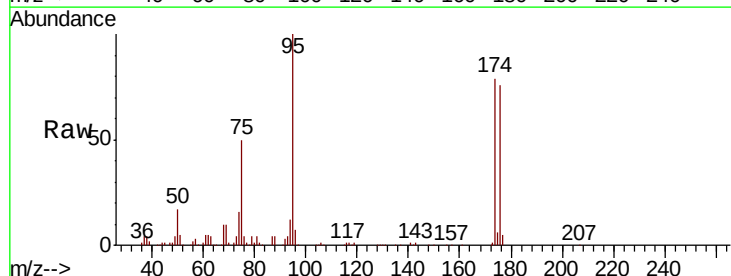


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

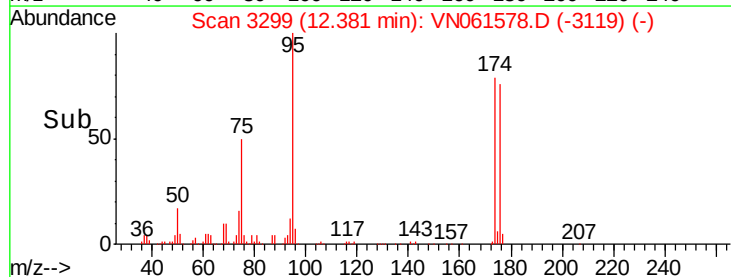
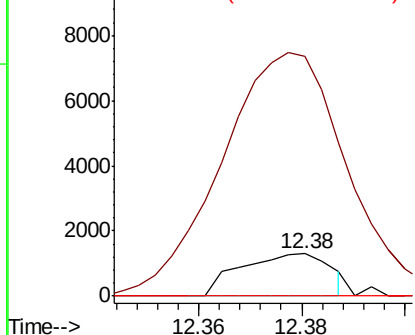


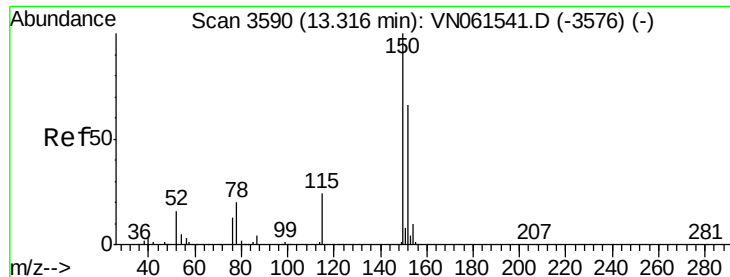
#71
Bromoform
Concen: 0.543 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN061578.D
Acq: 29 May 2020 19:29

Tgt Ion:173 Resp: 1575
Ion Ratio Lower Upper
173 100
175 692.8 24.4 73.2#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

Instrument :

MSVOA_N

ClientSampleId :

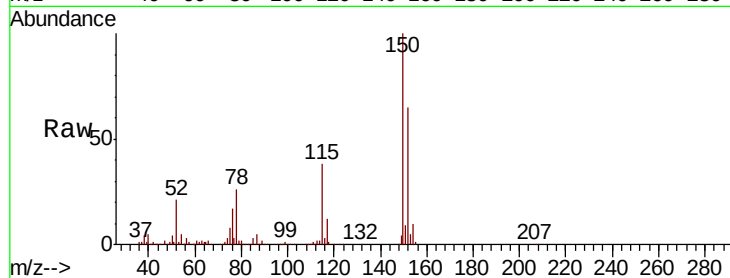
Tot Ion:152 Resp: 217707

Ion Ratio Lower Upper

152 100

115 59.5 28.0 84.0

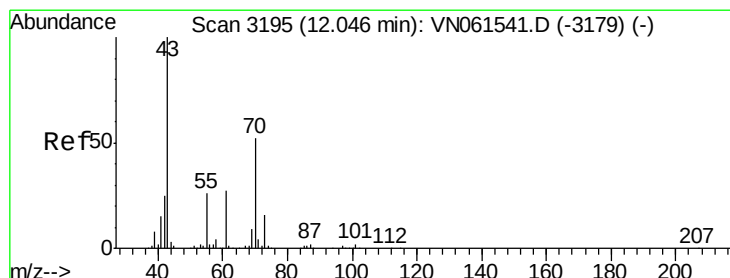
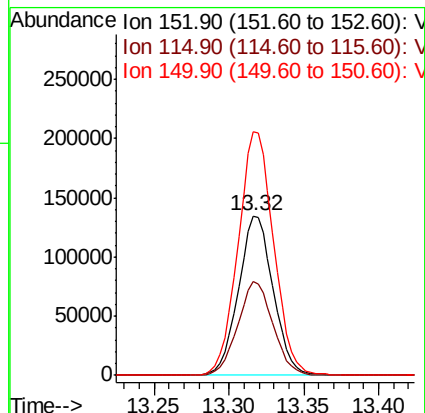
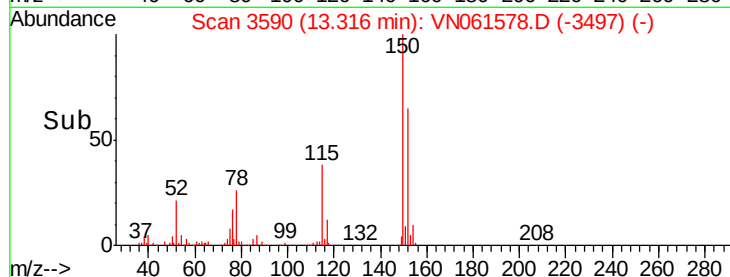
150 156.8 0.0 344.0



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: 0.594 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061578.D

Acq: 29 May 2020 19:29

Tgt Ion: 43 Resp: 2972

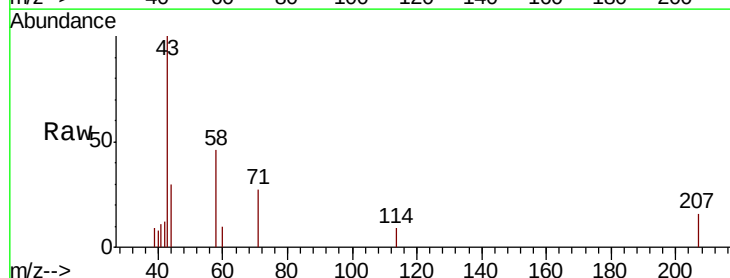
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

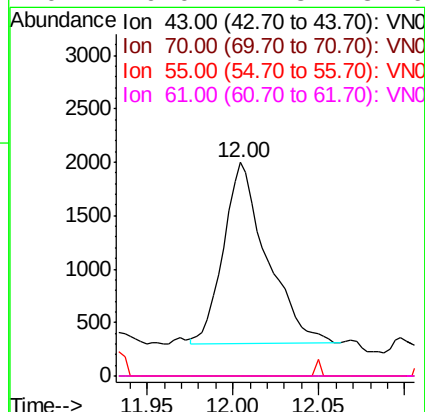
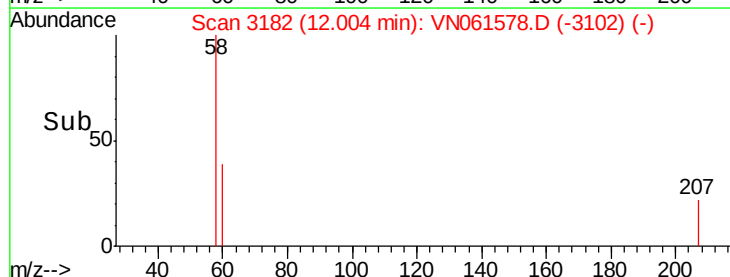


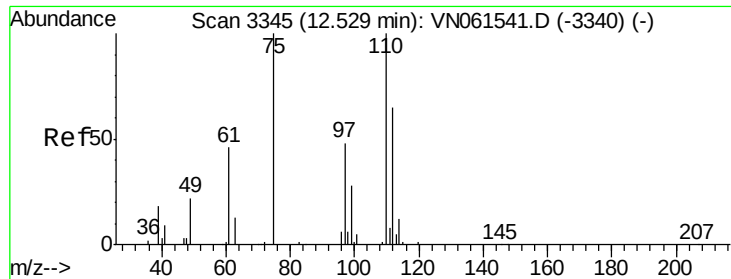
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

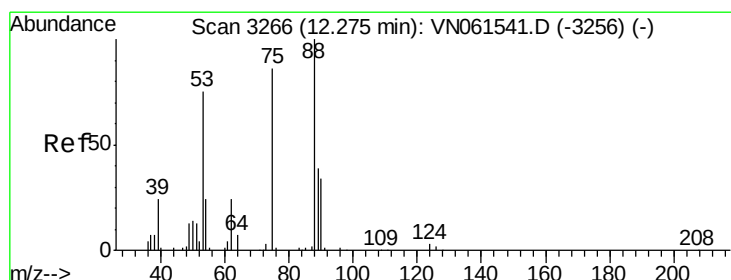
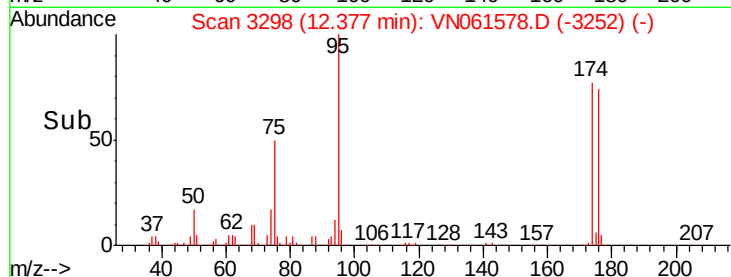
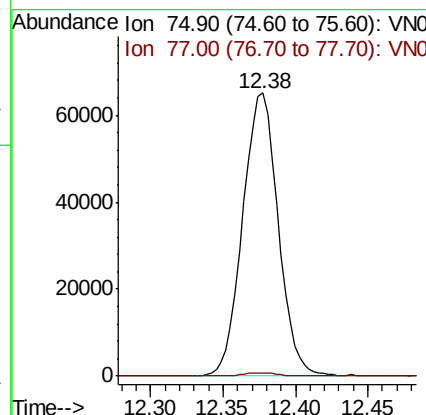
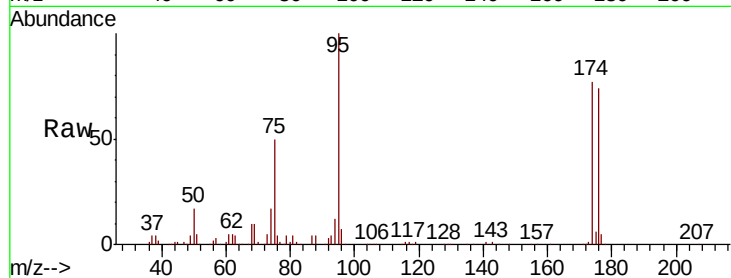




#76
 1,2,3-Trichloropropane
 Concen: 28.084 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 111179
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.819 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061578.D
 Acq: 29 May 2020 19:29

Tgt Ion: 75 Resp: 111179
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

