

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033020\
 Data File : VN060766.D
 Acq On : 30 Mar 2020 13:33
 Operator : JC/MD
 Sample : L2032-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

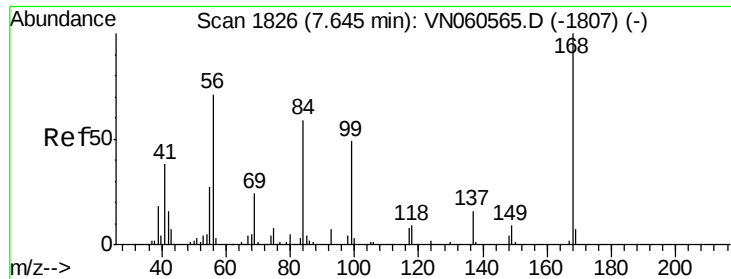
Quant Time: Mar 31 07:58:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	204230	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	337194	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	319439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147004	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	131451	46.89	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.78%	
35) Dibromofluoromethane	7.56	113	100296	49.19	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.38%	
50) Toluene-d8	10.08	98	416880	50.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	12.40	95	158118	51.81	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	396	0.960	ug/l #	72
13) Acrolein	3.57	56	182	0.398	ug/l #	14
16) Acetone	3.78	43	21122	21.269	ug/l	96
18) Methyl Acetate	4.29	43	2378	0.851	ug/l #	88
20) Methylene Chloride	4.52	84	12222	5.003	ug/l	99
25) 2-Butanone	6.81	43	5014	3.120	ug/l	98
26) 2,2-Dichloropropane	6.78	77	1071	0.304	ug/l #	53
31) Cyclohexane	7.64	56	4299	0.952	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15681	4.803	ug/l #	49
38) Carbon Tetrachloride	7.64	117	19108	6.530	ug/l #	16
43) Isopropyl Acetate	8.14	43	57588	9.898	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	954	0.367	ug/l #	43
48) Methyl methacrylate	9.16	41	3632	1.402	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4536	1.370	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	21894	5.317	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3742	0.942	ug/l #	42
59) 2-Hexanone	10.75	43	55203	23.146	ug/l #	52
71) Bromoform	12.38	173	35	1.698	ug/l #	1
74) N-amyl acetate	12.02	43	3543	0.695	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	79256	24.986	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79256	64.171	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

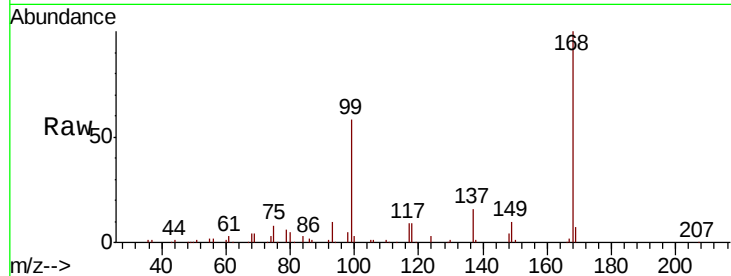
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 204230

Ion Ratio Lower Upper

168 100

99 57.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

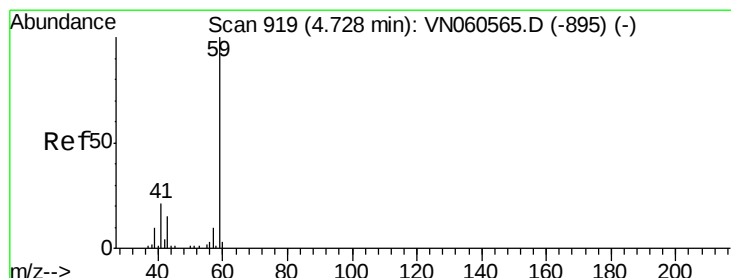
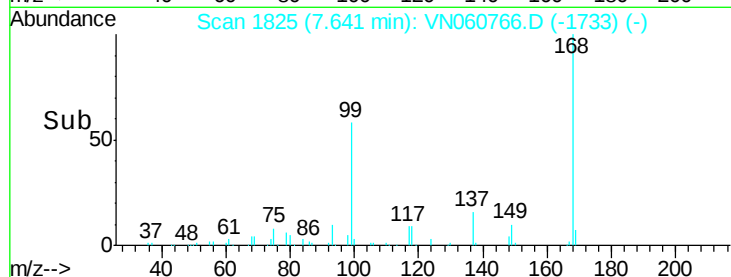
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.960 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.01 min

Lab File: VN060766.D

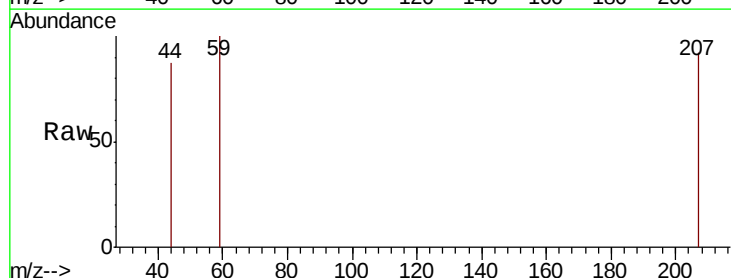
Acq: 30 Mar 2020 13:33

Tgt Ion: 59 Resp: 396

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

250

200

150

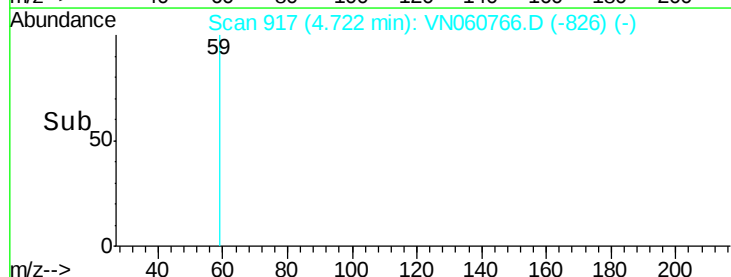
100

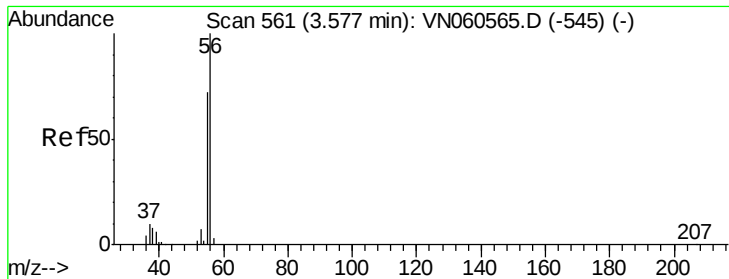
50

0

4.68 4.70 4.72 4.74 4.76

Time-->





#13

Acrolein

Concen: 0.398 ug/l

RT: 3.57 min Scan# 560

Delta R.T. -0.00 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

Instrument :

MSVOA_N

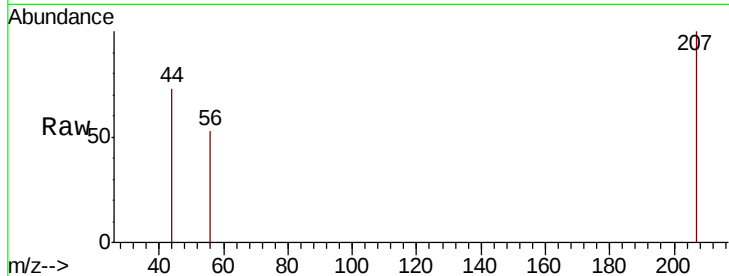
ClientSampled :

Tot Ion: 56 Resp: 182

Ion Ratio Lower Upper

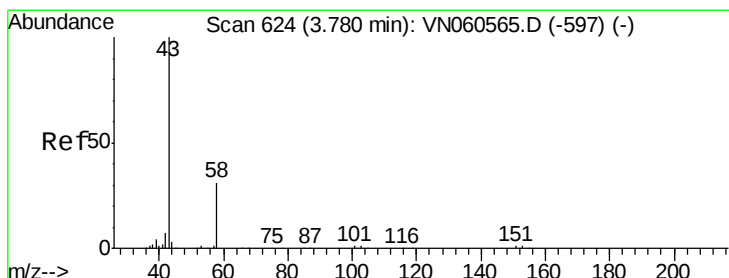
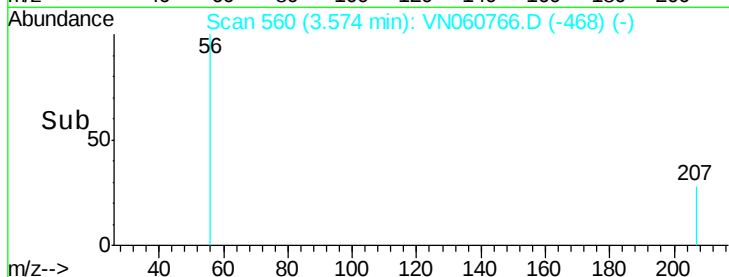
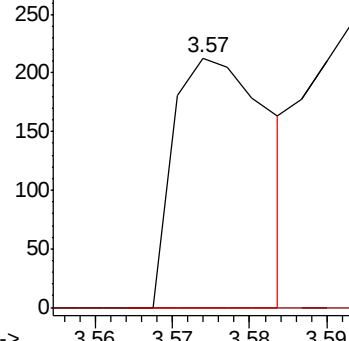
56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 21.269 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060766.D

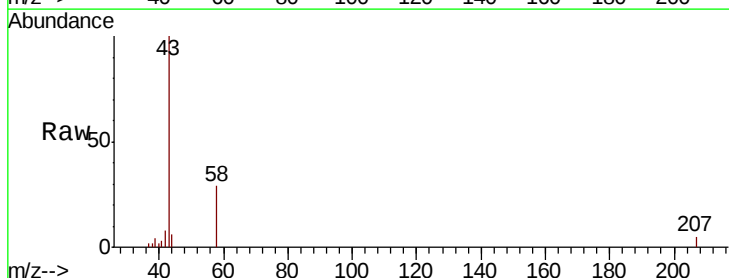
Acq: 30 Mar 2020 13:33

Tgt Ion: 43 Resp: 21122

Ion Ratio Lower Upper

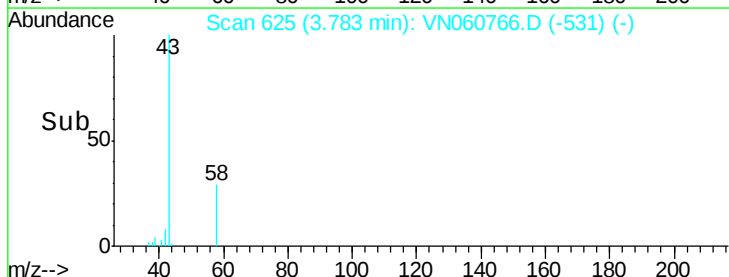
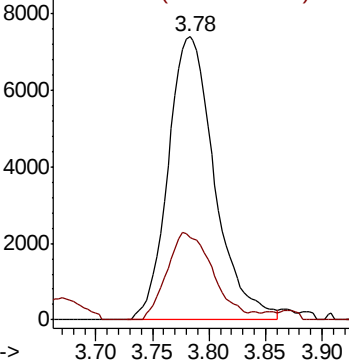
43 100

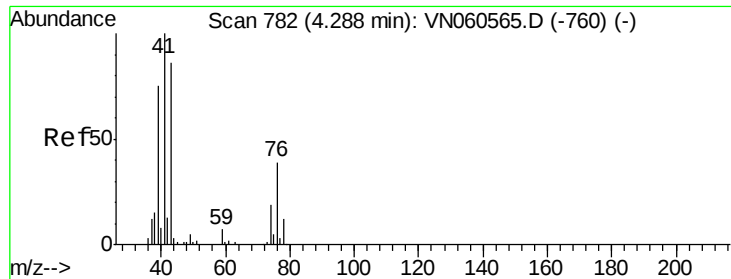
58 29.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

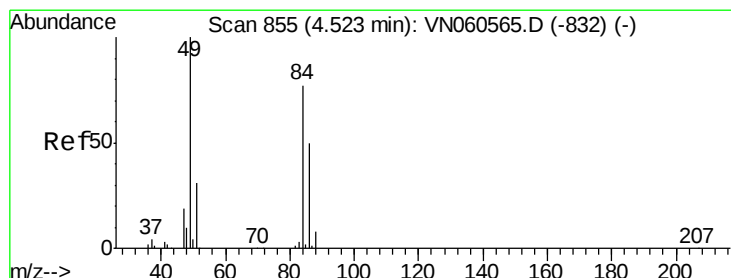
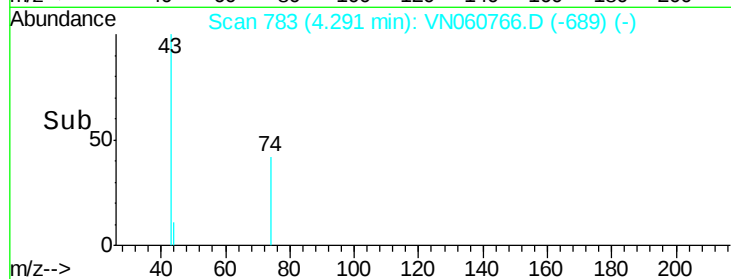
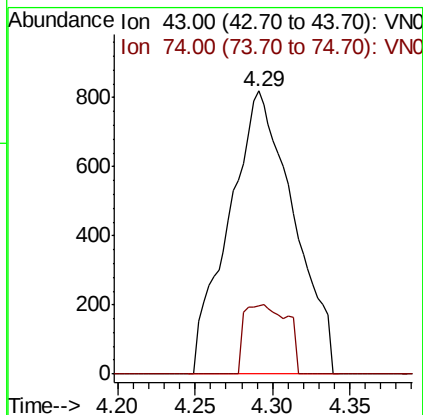
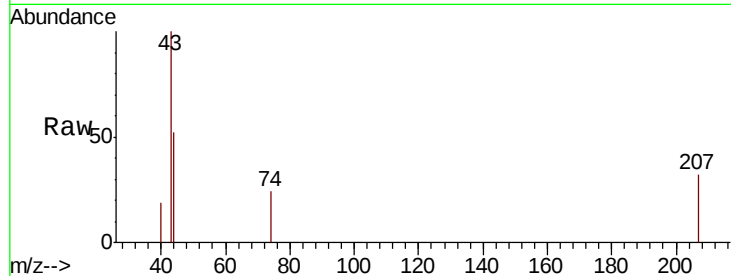




#18
Methyl Acetate
Concen: 0.851 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060766.D
Acq: 30 Mar 2020 13:33

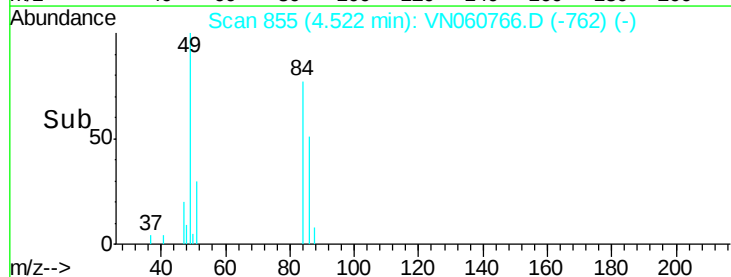
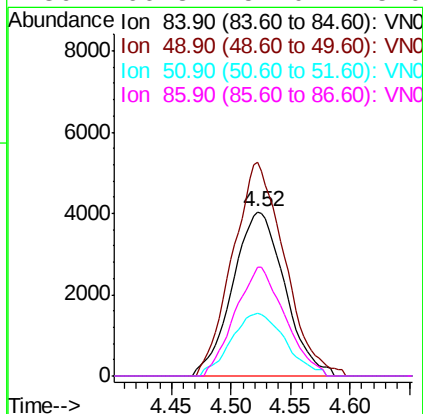
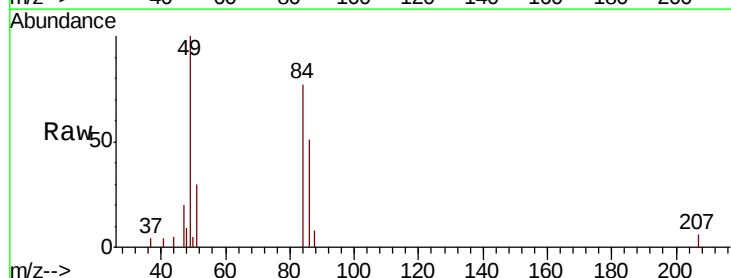
Instrument :
MSVOA_N
ClientSampled :

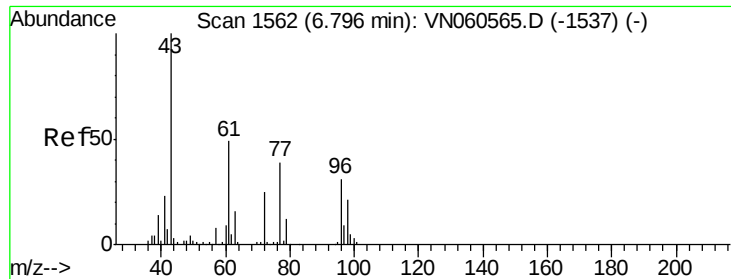
Tot Ion: 43 Resp: 2378
Ion Ratio Lower Upper
43 100
74 16.2 17.5 26.3#



#20
Methylene Chloride
Concen: 5.003 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060766.D
Acq: 30 Mar 2020 13:33

Tgt Ion: 84 Resp: 12222
Ion Ratio Lower Upper
84 100
49 130.2 103.3 154.9
51 38.6 31.6 47.4
86 66.3 52.0 78.0

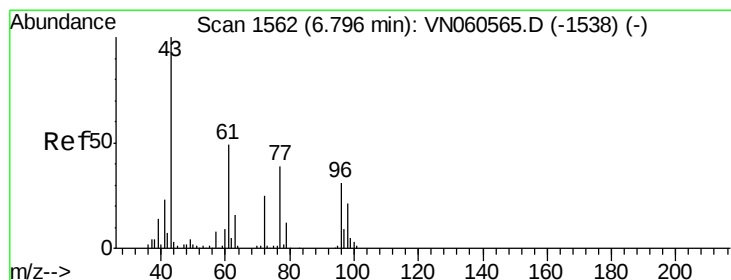
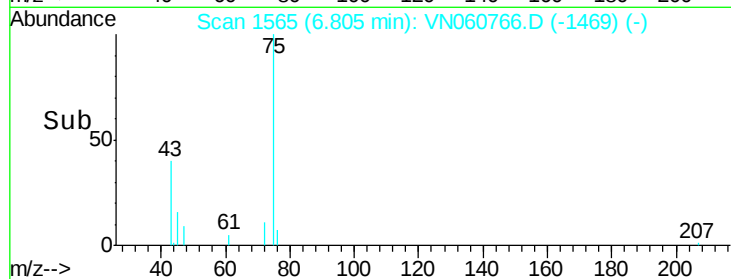
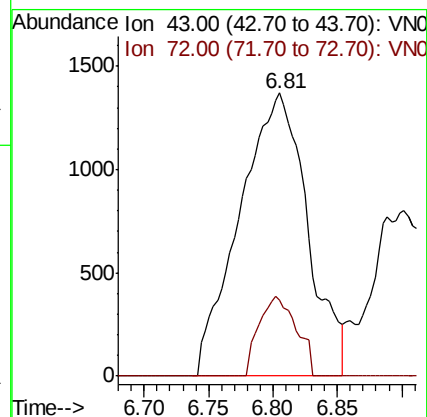
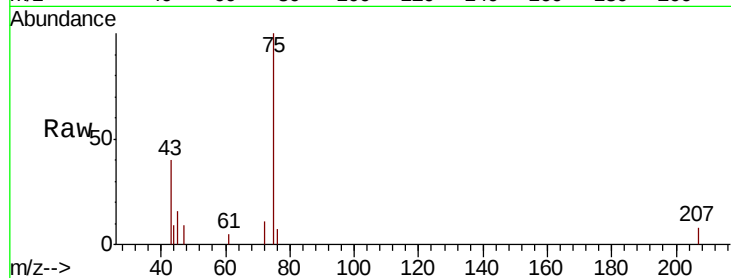




#25
2-Butanone
Concen: 3.120 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060766.D
Acq: 30 Mar 2020 13:33

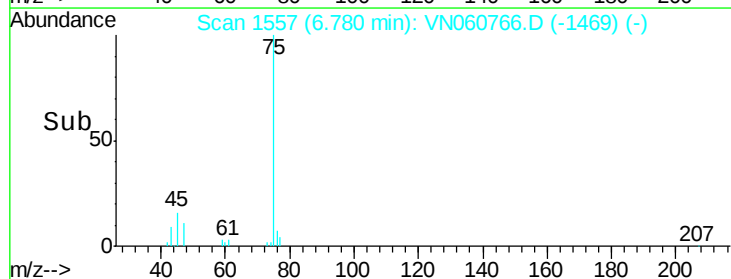
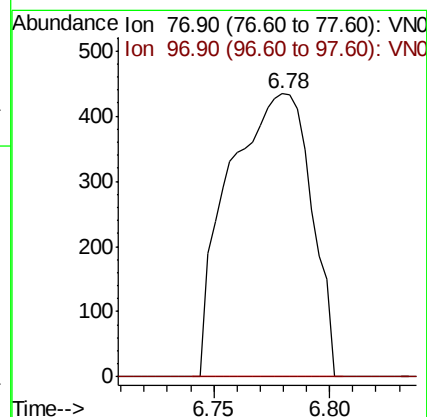
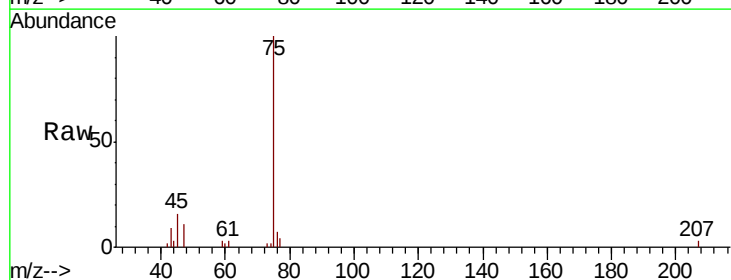
Instrument :
MSVOA_N
ClientSampled :

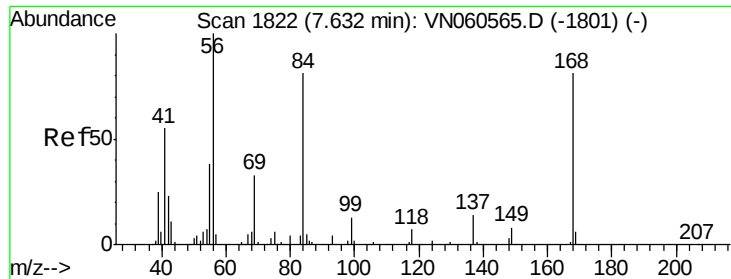
Tot Ion: 43 Resp: 5014
Ion Ratio Lower Upper
43 100
72 26.7 20.4 30.6



#26
2,2-Dichloropropane
Concen: 0.304 ug/l
RT: 6.78 min Scan# 1557
Delta R.T. -0.02 min
Lab File: VN060766.D
Acq: 30 Mar 2020 13:33

Tgt Ion: 77 Resp: 1071
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.1#

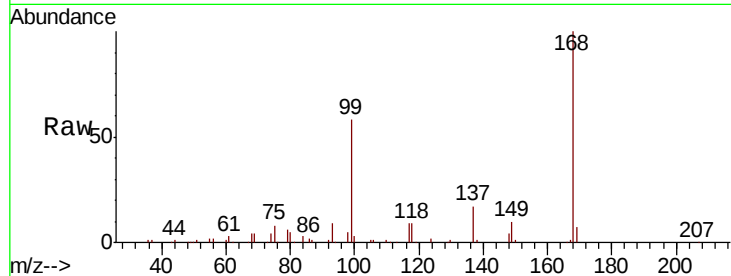




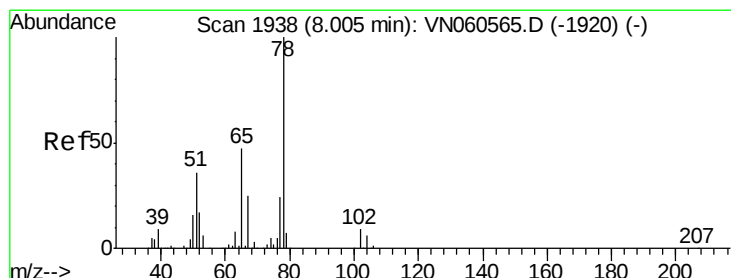
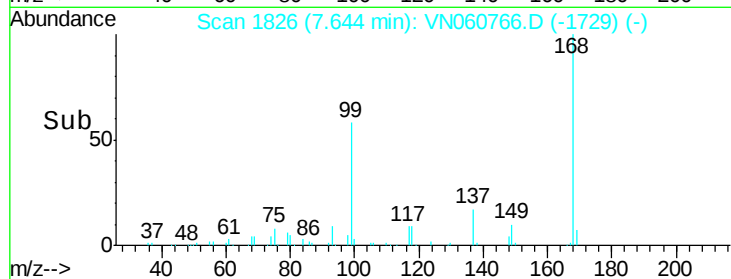
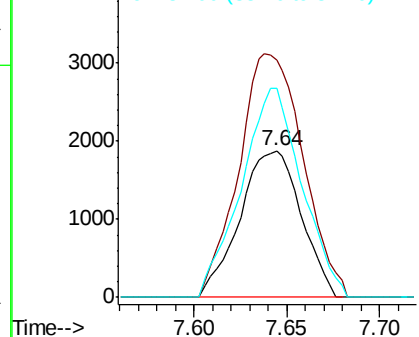
#31
Cyclohexane
Concen: 0.952 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060766.D
Acq: 30 Mar 2020 13:33

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4299
Ion Ratio Lower Upper
56 100
69 161.8 26.6 40.0#
84 142.8 64.3 96.5#

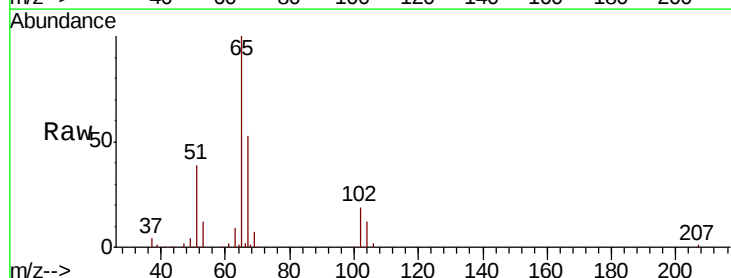


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

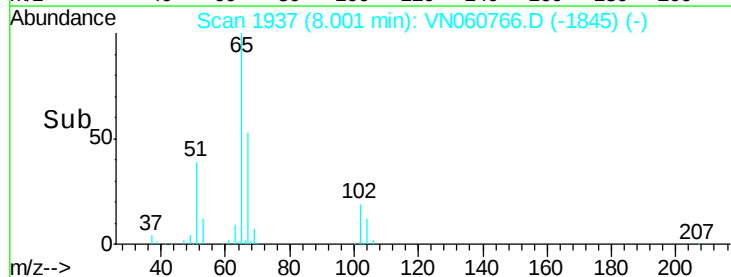
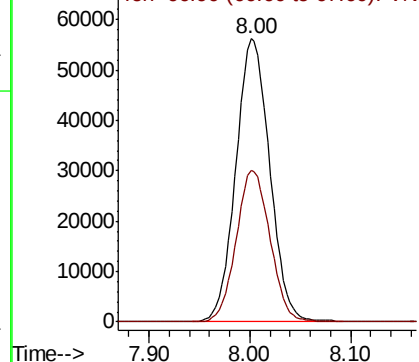


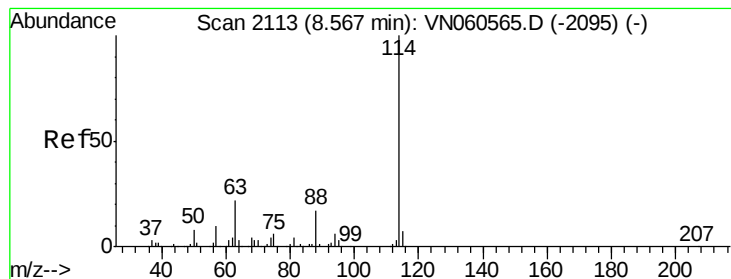
#33
1,2-Dichloroethane-d4
Concen: 46.886 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060766.D
Acq: 30 Mar 2020 13:33

Tgt Ion: 65 Resp: 131451
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

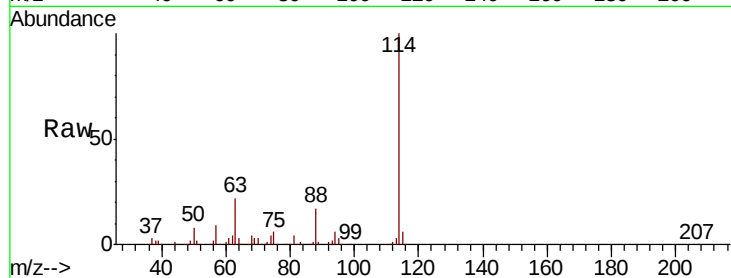
Tot Ion:114 Resp: 337194

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.8

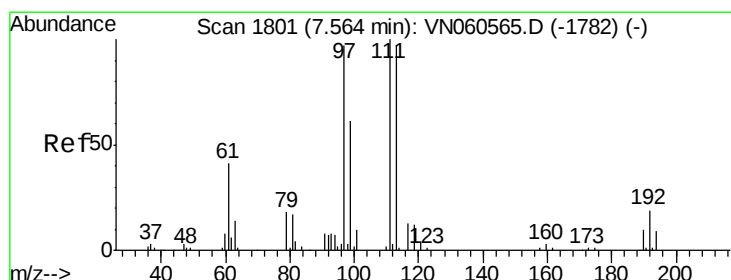
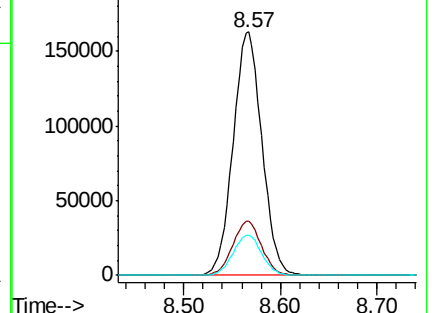
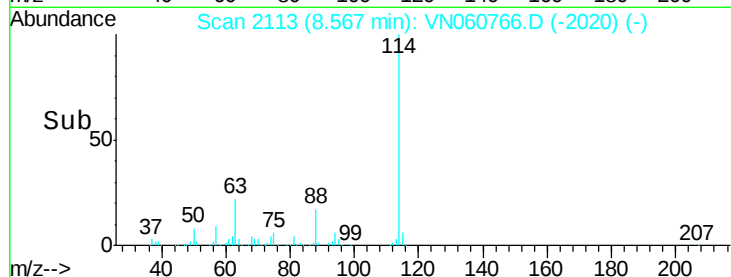
88 16.7 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.191 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

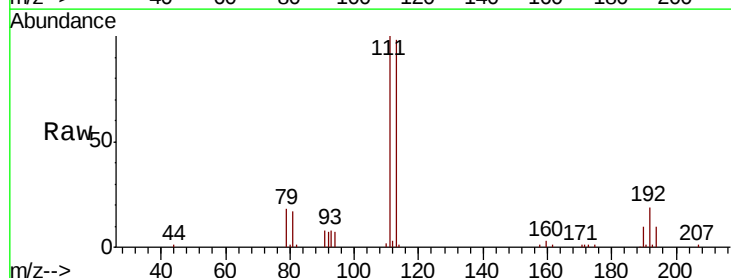
Tgt Ion:113 Resp: 100296

Ion Ratio Lower Upper

113 100

111 102.2 82.9 124.3

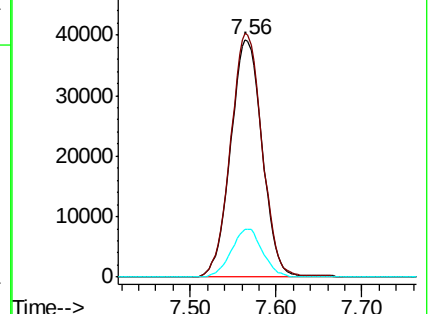
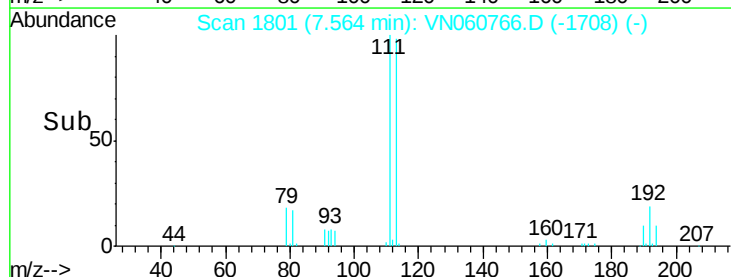
192 19.9 15.8 23.8

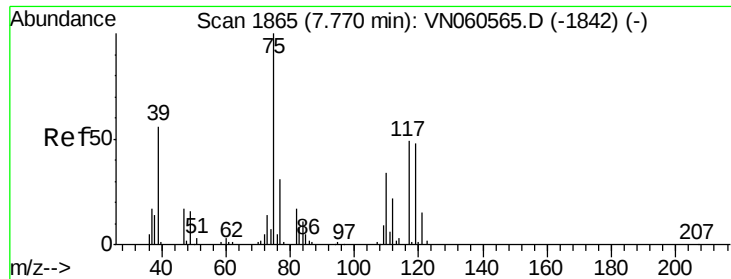


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

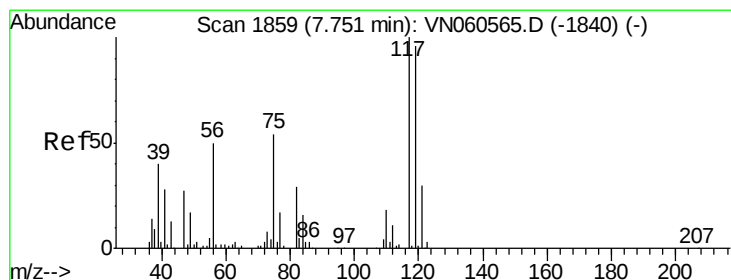
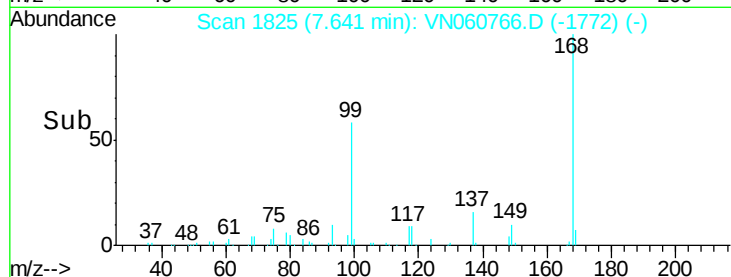
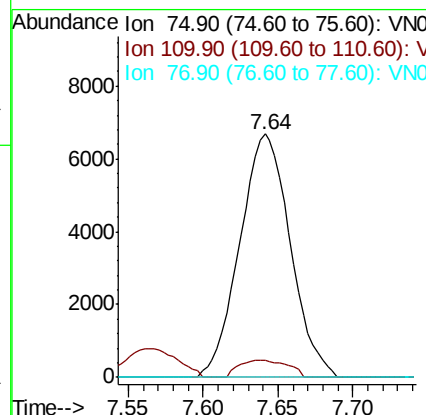
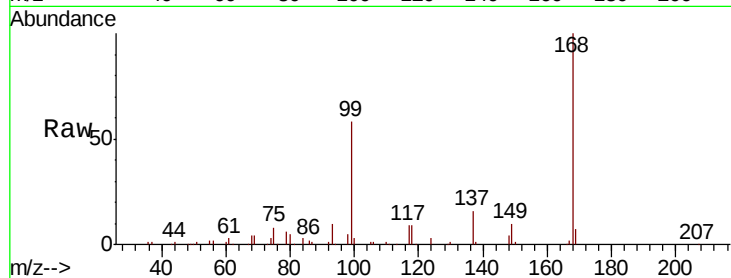




#36
 1,1-Dichloropropene
 Concen: 4.803 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060766.D
 Acq: 30 Mar 2020 13:33

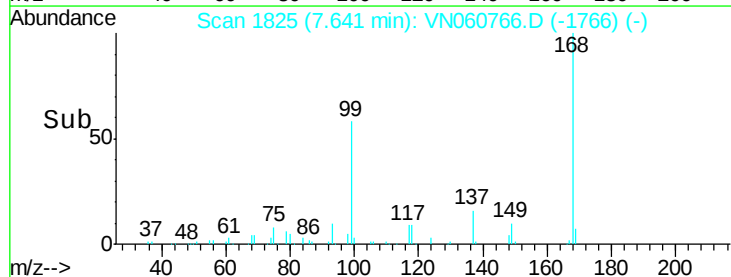
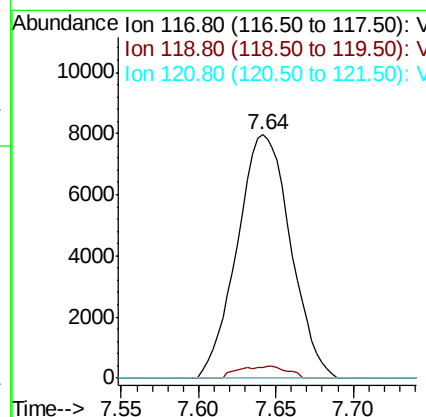
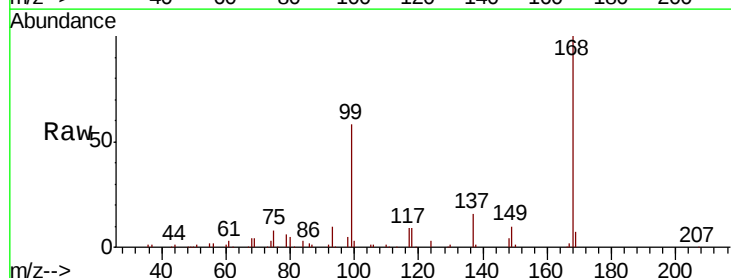
Instrument :
 MSVOA_N
 ClientSampled :

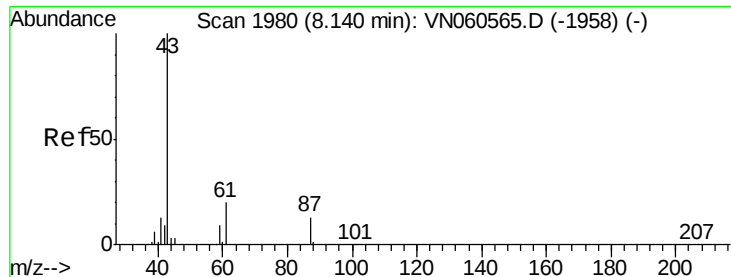
Tot Ion	75	Resp	15681
Ion Ratio	100	Lower	Upper
75	100		
110	6.8	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.530 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060766.D
 Acq: 30 Mar 2020 13:33

Tgt Ion	117	Resp	19108
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.5	76.2	114.2#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 9.898 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

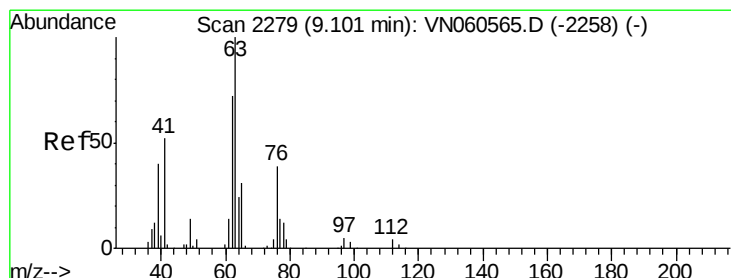
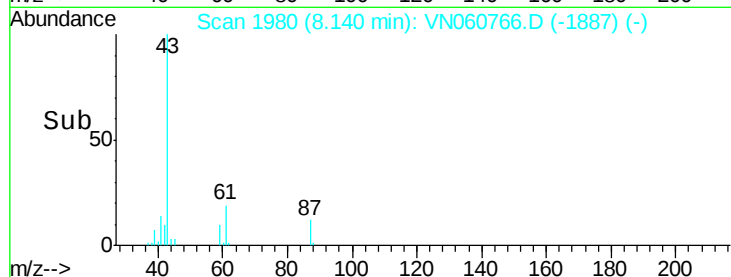
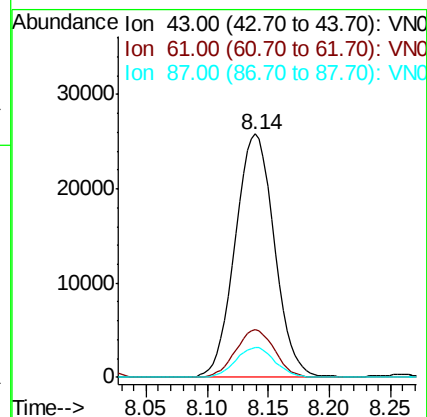
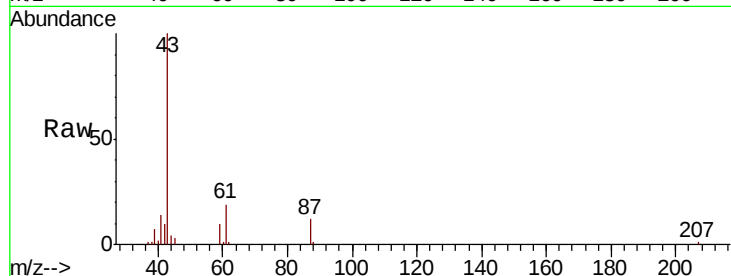
Tot Ion: 43 Resp: 57588

Ion Ratio Lower Upper

43 100

61 19.3 20.7 31.1#

87 12.1 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.367 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060766.D

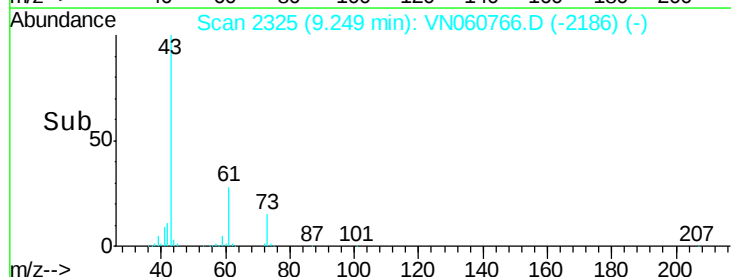
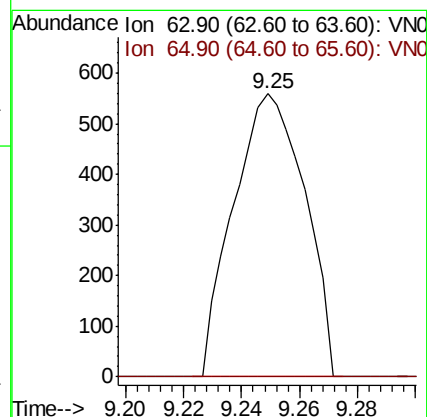
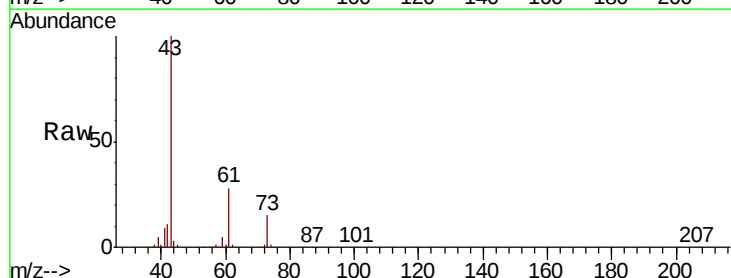
Acq: 30 Mar 2020 13:33

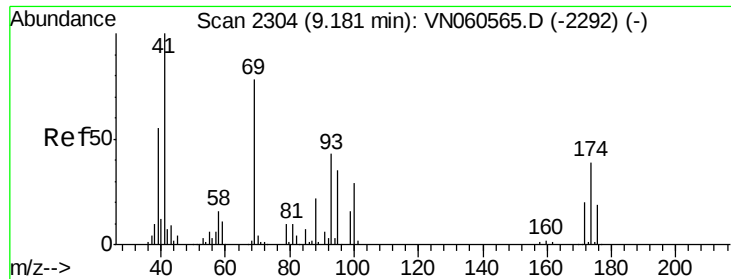
Tgt Ion: 63 Resp: 954

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

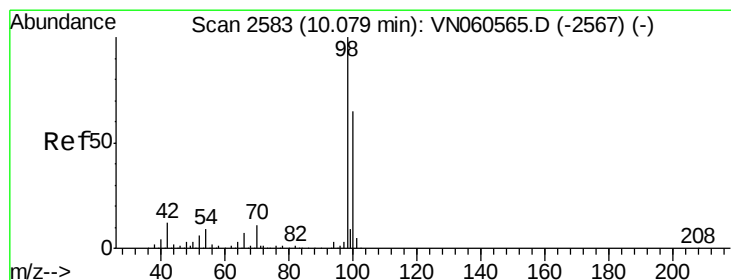
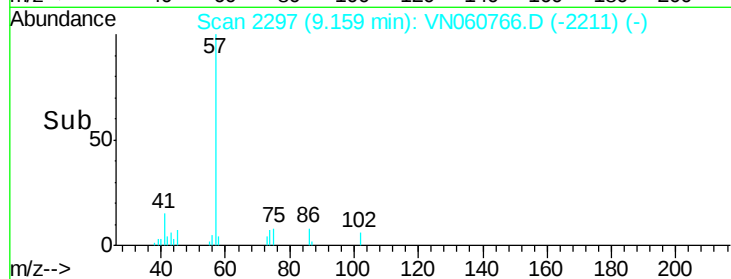
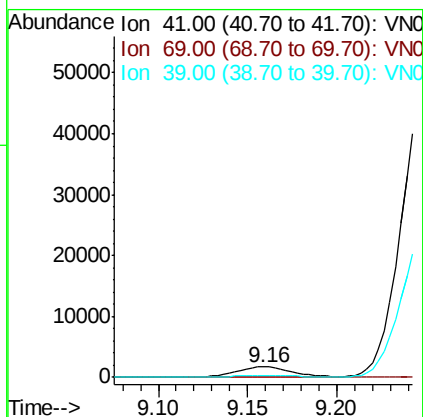
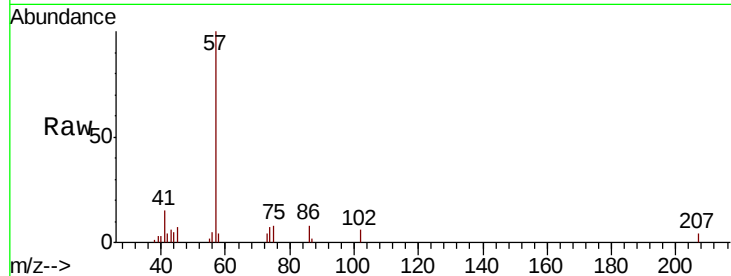




#48
Methvl methacrylate
Concen: 1.402 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060766.D
Acq: 30 Mar 2020 13:33

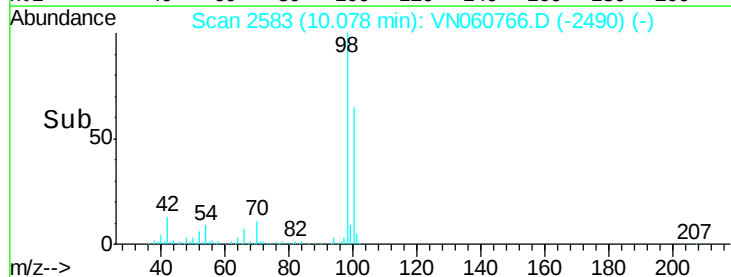
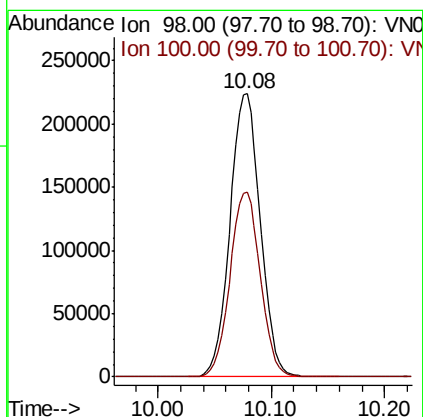
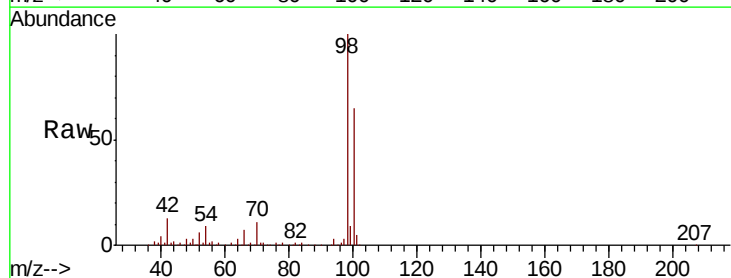
Instrument :
MSVOA_N
ClientSampled :

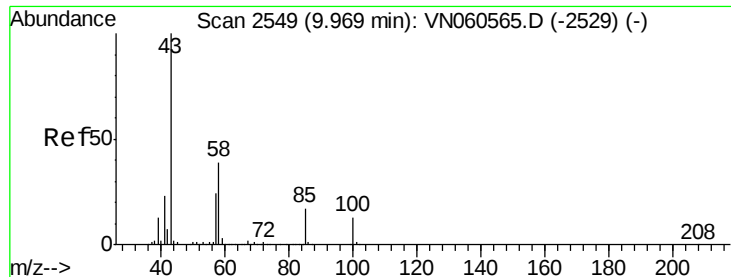
Tot Ion: 41 Resp: 3632
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.057 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060766.D
Acq: 30 Mar 2020 13:33

Tgt Ion: 98 Resp: 416880
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8

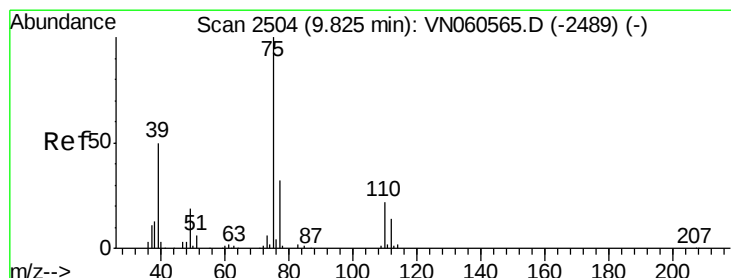
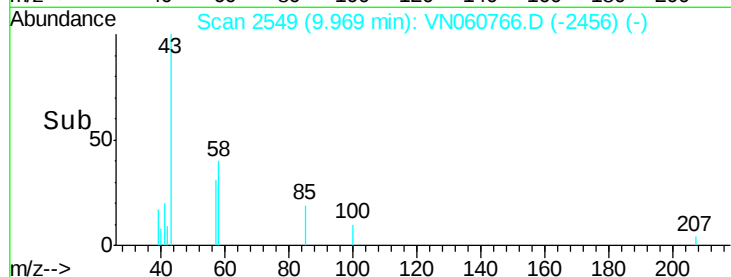
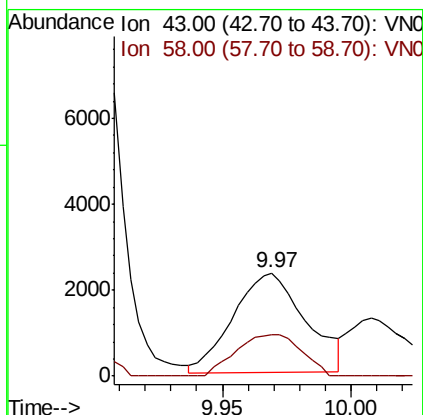
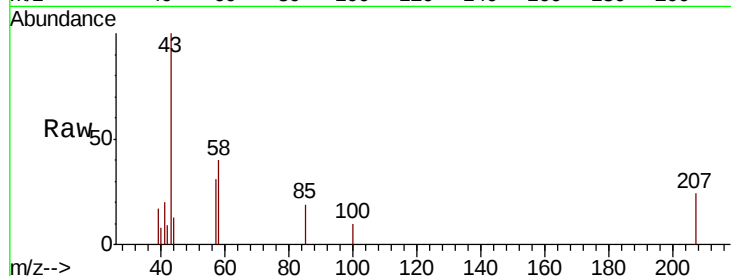




#51
 4-Methyl-2-Pentanone
 Concen: 1.370 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: VN060766.D
 Acq: 30 Mar 2020 13:33

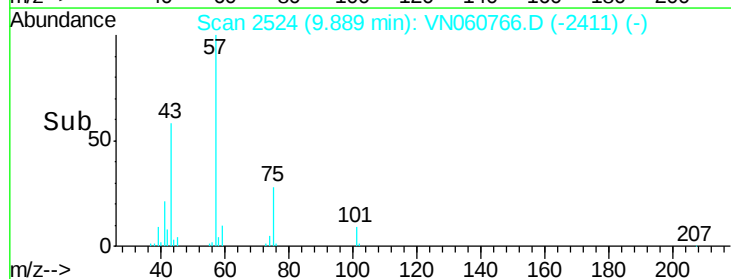
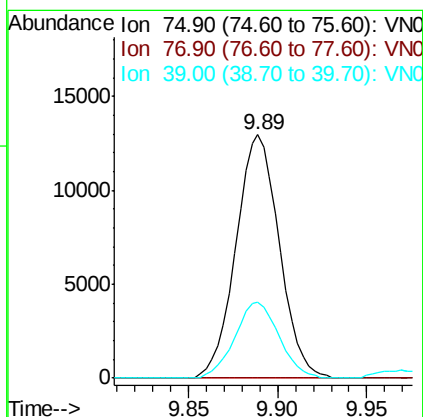
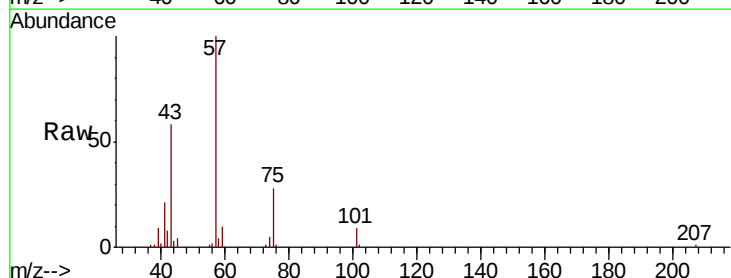
Instrument :
 MSVOA_N
 ClientSampled :

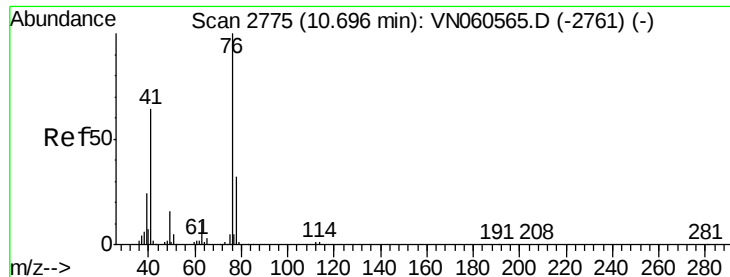
Tot Ion: 43 Resp: 4536
 Ion Ratio Lower Upper
 43 100
 58 37.8 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 5.317 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060766.D
 Acq: 30 Mar 2020 13:33

Tgt Ion: 75 Resp: 21894
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.1 40.2 60.4#

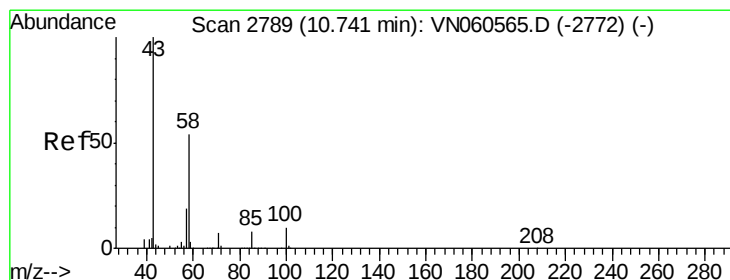
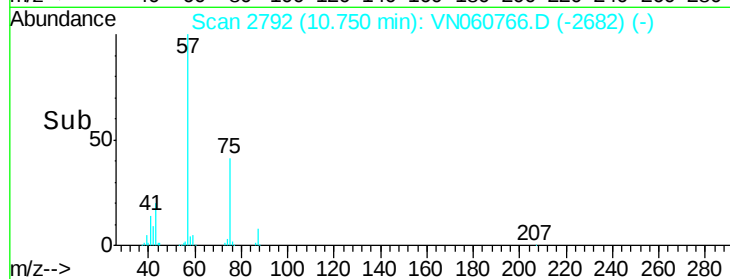
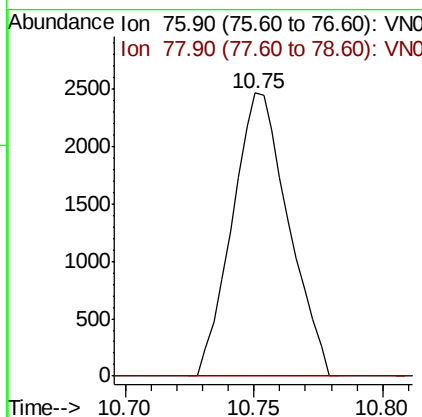
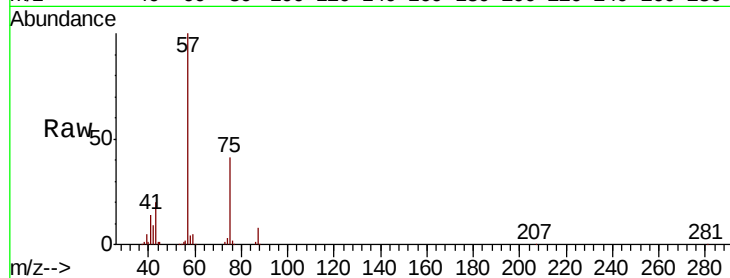




#57
 1,3-Dichloropropane
 Concen: 0.942 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060766.D
 Acq: 30 Mar 2020 13:33

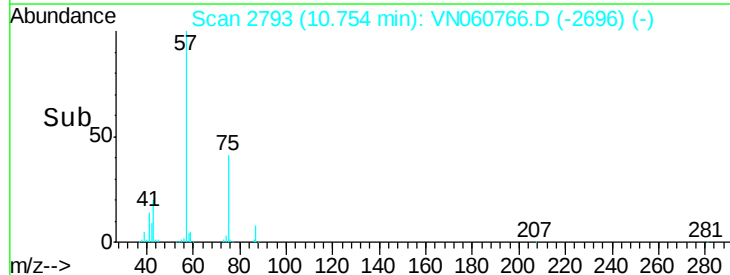
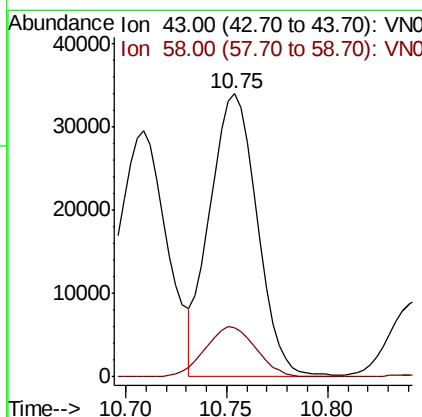
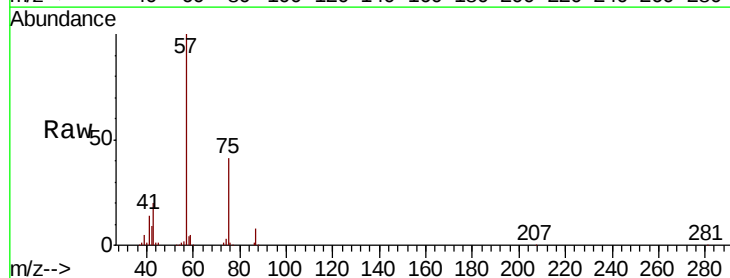
Instrument :
 MSVOA_N
 ClientSampled :

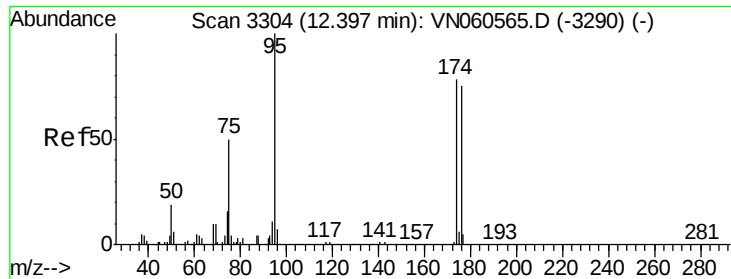
Tot Ion: 76 Resp: 3742
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 23.146 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060766.D
 Acq: 30 Mar 2020 13:33

Tgt Ion: 43 Resp: 55203
 Ion Ratio Lower Upper
 43 100
 58 19.0 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 51.806 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

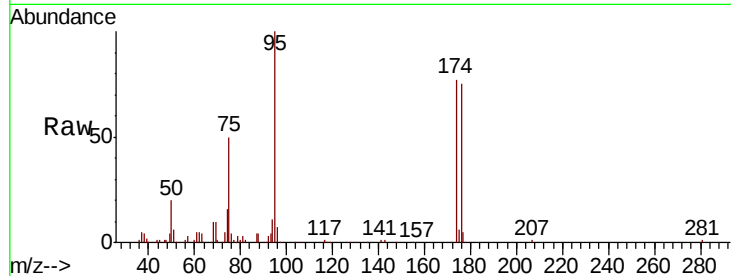
Tot Ion: 95 Resp: 158118

Ion Ratio Lower Upper

95 100

174 76.9 0.0 157.6

176 75.1 0.0 150.6



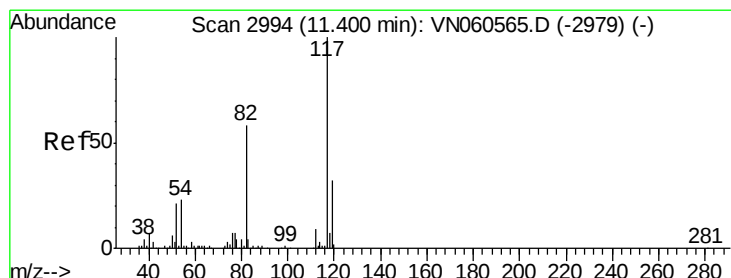
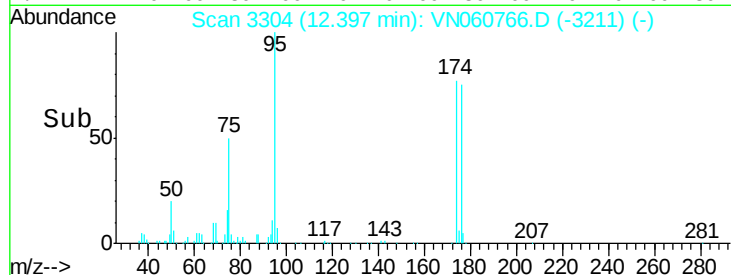
Abundance Ion 94.90 (94.60 to 95.60): VN060766.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060766.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060766.D (-3290) (-)

12.40

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

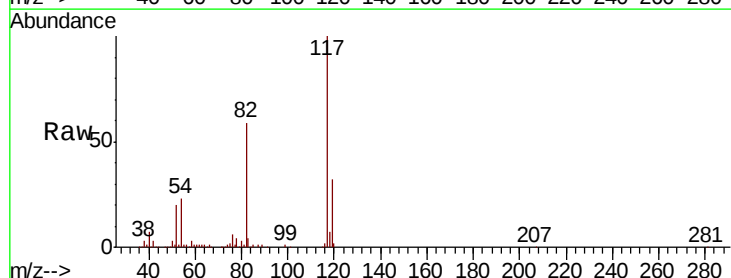
Tgt Ion: 117 Resp: 319439

Ion Ratio Lower Upper

117 100

82 58.7 46.7 70.1

119 32.1 25.5 38.3



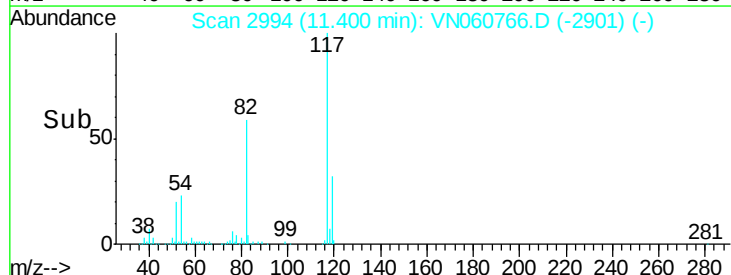
Abundance Ion 116.90 (116.60 to 117.60): VN060766.D (-2979) (-)

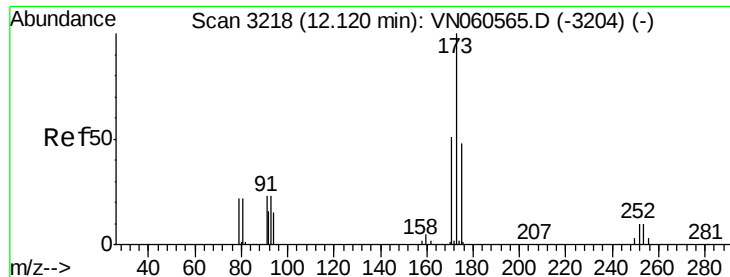
Ion 82.00 (81.70 to 82.70): VN060766.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060766.D (-2979) (-)

11.40

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 1.698 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.26 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

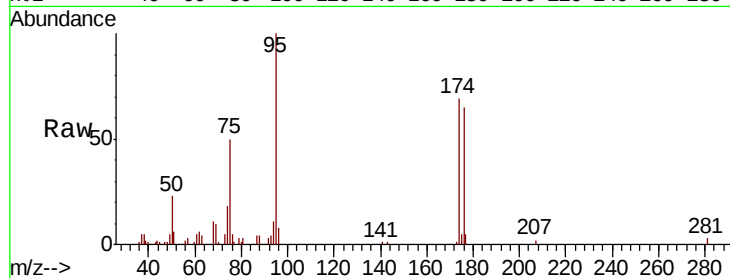
Tot Ion:173 Resp: 35

Ion Ratio Lower Upper

173 100

175 22168.6 24.1 72.4#

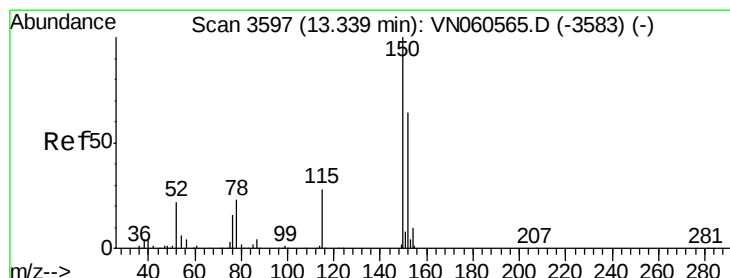
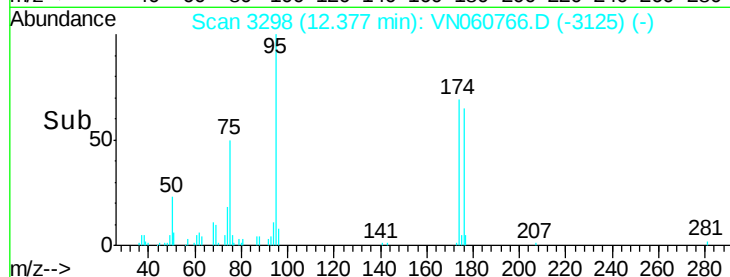
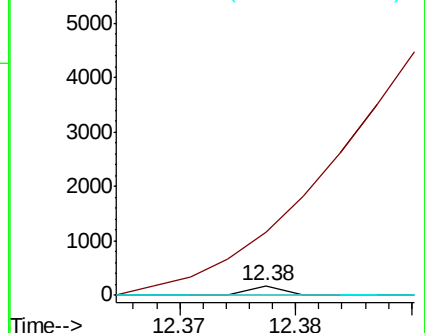
254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

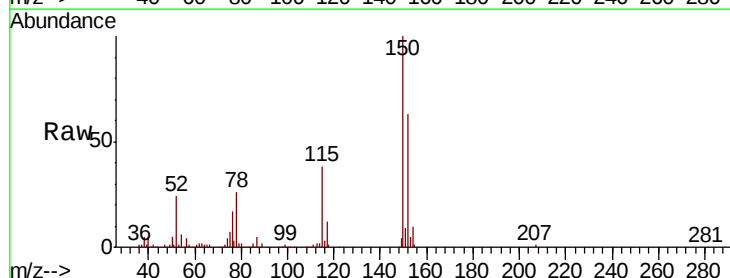
Tgt Ion:152 Resp: 147004

Ion Ratio Lower Upper

152 100

115 59.5 30.2 90.6

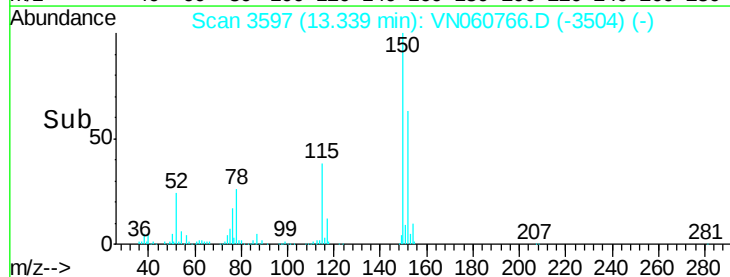
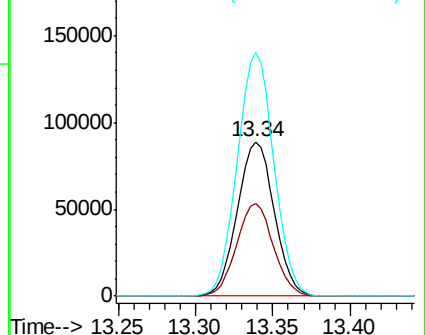
150 157.0 0.0 350.2

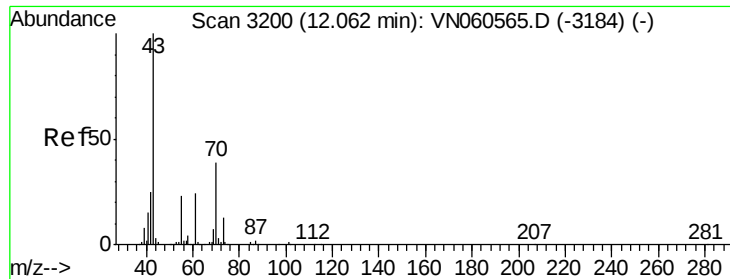


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.695 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3543

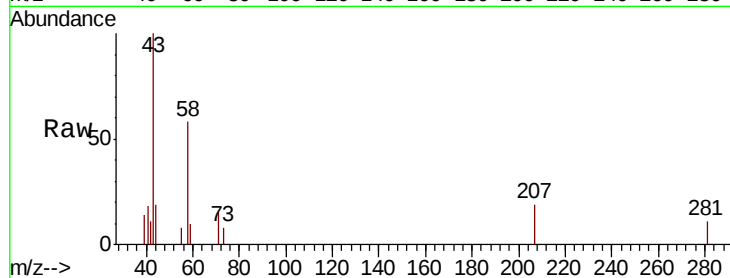
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 4.7 18.6 27.8#

61 0.0 18.9 28.3#

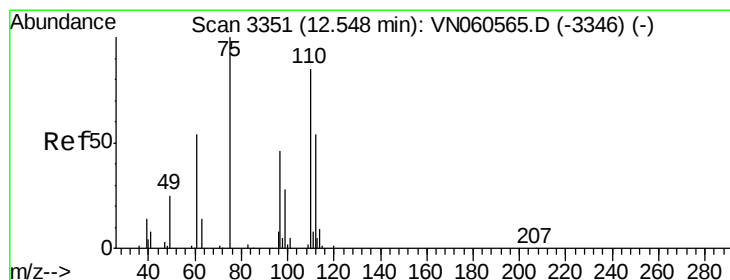
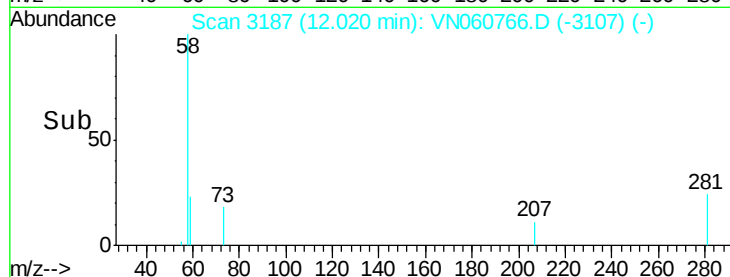
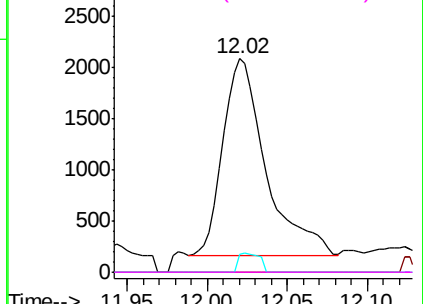


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.986 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060766.D

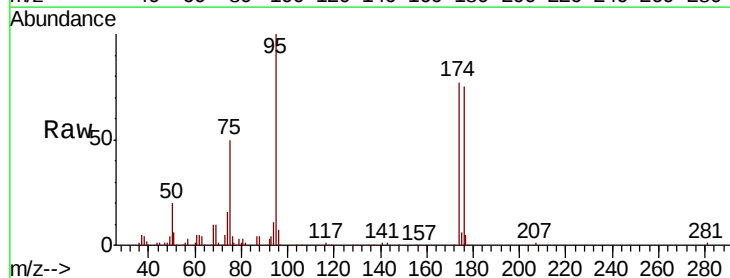
Acq: 30 Mar 2020 13:33

Tgt Ion: 75 Resp: 79256

Ion Ratio Lower Upper

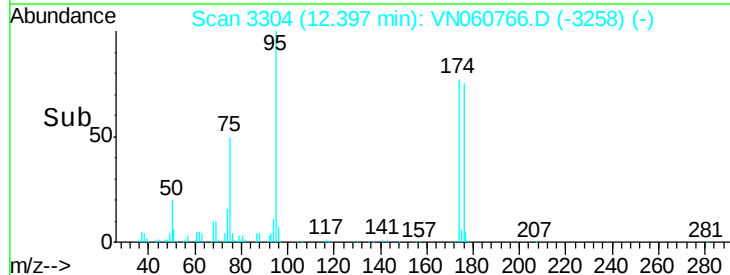
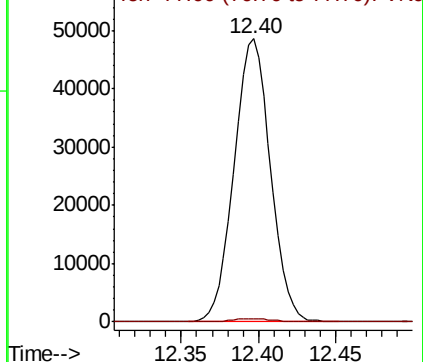
75 100

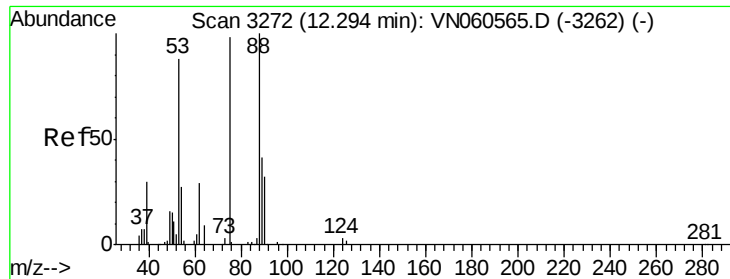
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.171 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060766.D

Acq: 30 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

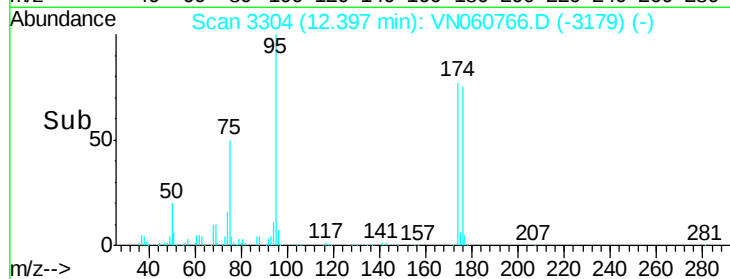
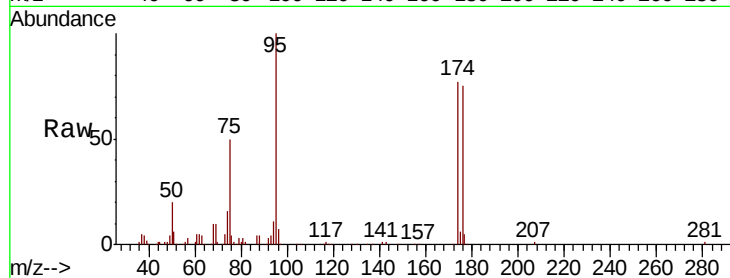
Tot Ion: 75 Resp: 79256

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



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

