

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060956.D
 Acq On : 15 Apr 2020 13:13
 Operator : JC/MD
 Sample : L2230-62
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

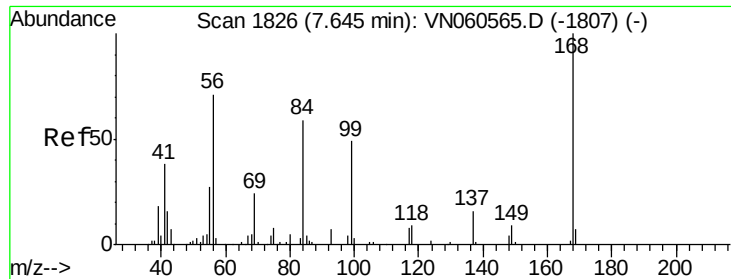
Quant Time: Apr 16 06:33:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	151986	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	259543	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	245009	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109828	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	102702	49.22	ug/l	0.00
Spiked Amount						
			Recovery	=	98.44%	
35) Dibromofluoromethane	7.56	113	76984	49.05	ug/l	0.00
Spiked Amount						
			Recovery	=	98.10%	
50) Toluene-d8	10.08	98	323195	50.42	ug/l	0.00
Spiked Amount						
			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	12.39	95	121115	51.55	ug/l	0.00
Spiked Amount						
			Recovery	=	103.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	236	0.769	ug/l #	72
16) Acetone	3.78	43	19759	26.736	ug/l	98
18) Methyl Acetate	4.31	43	1611	0.774	ug/l #	54
20) Methylene Chloride	4.53	84	3739	2.057	ug/l	97
25) 2-Butanone	6.80	43	7944	6.643	ug/l #	89
31) Cyclohexane	7.64	56	3309	0.985	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12230	4.866	ug/l #	49
37) Ethyl Acetate	6.80	43	7944	2.925	ug/l #	70
38) Carbon Tetrachloride	7.64	117	14509	6.441	ug/l #	16
43) Isopropyl Acetate	8.14	43	43459	9.704	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	788	0.394	ug/l #	43
48) Methyl methacrylate	9.16	41	2787	1.398	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3131	1.229	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	15736	4.965	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	2157	0.705	ug/l #	42
59) 2-Hexanone	10.75	43	32140	17.508	ug/l #	54
71) Bromoform	12.39	173	205	1.816	ug/l #	1
74) N-amyl acetate	12.02	43	2181	0.573	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	61114	25.788	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	61114	66.231	ug/l #	13
86) p-Isopropyltoluene	13.28	119	1413	0.202	ug/l	87

(#) = 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: VN060956.D

Acq: 15 Apr 2020 13:13

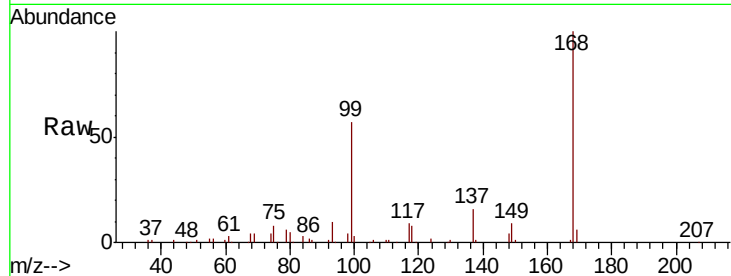
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 151986

Ion Ratio Lower Upper

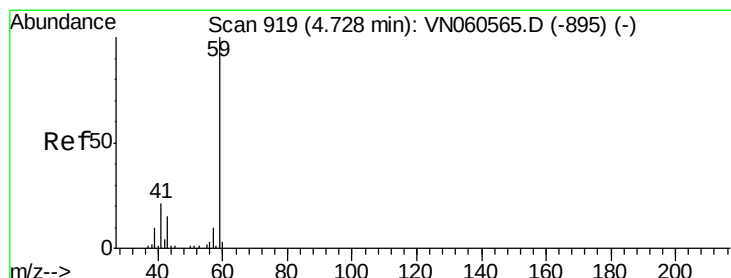
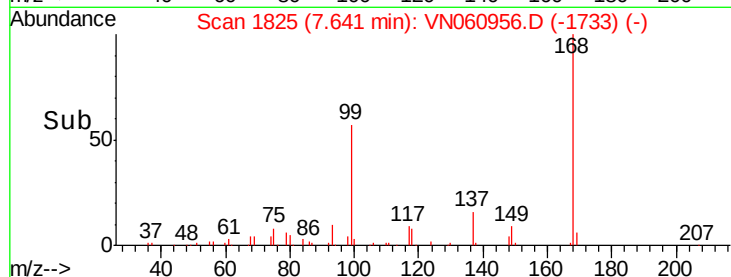
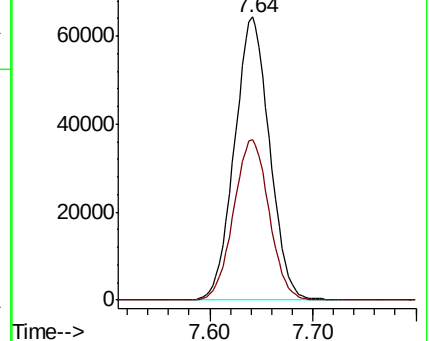
168 100

99 56.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.769 ug/l

RT: 4.73 min Scan# 919

Delta R.T. 0.00 min

Lab File: VN060956.D

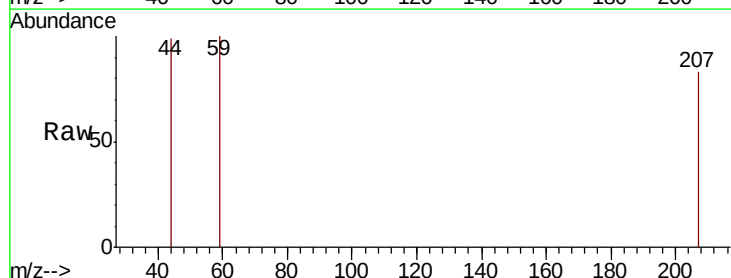
Acq: 15 Apr 2020 13:13

Tgt Ion: 59 Resp: 236

Ion Ratio Lower Upper

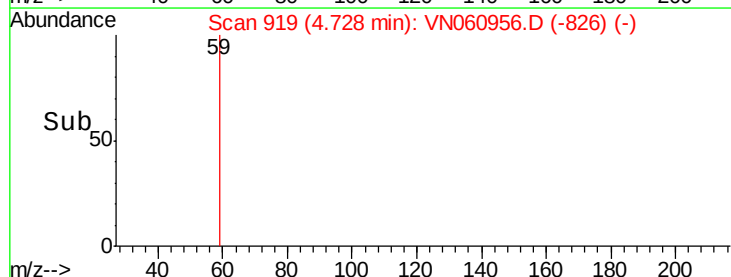
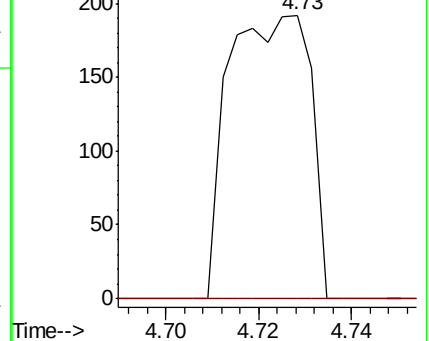
59 100

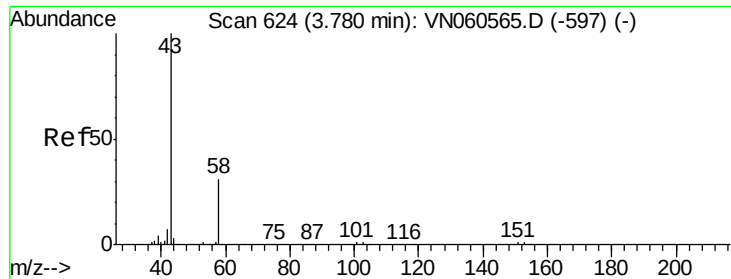
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 26.736 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060956.D

Acq: 15 Apr 2020 13:13

Instrument :

MSVOA_N

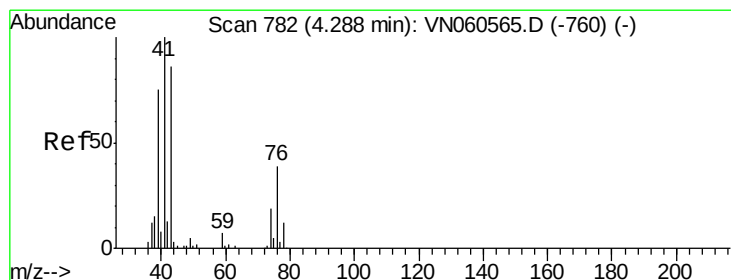
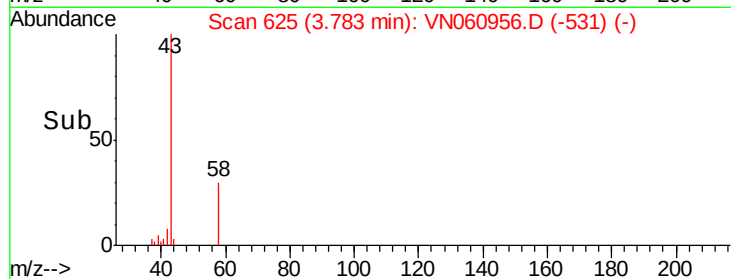
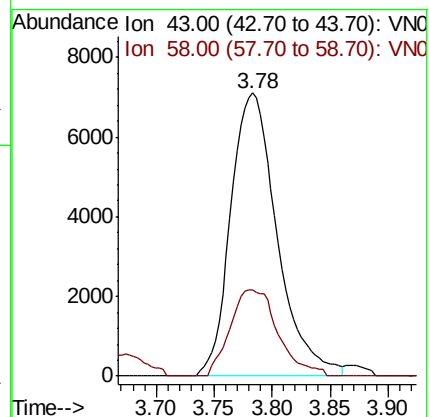
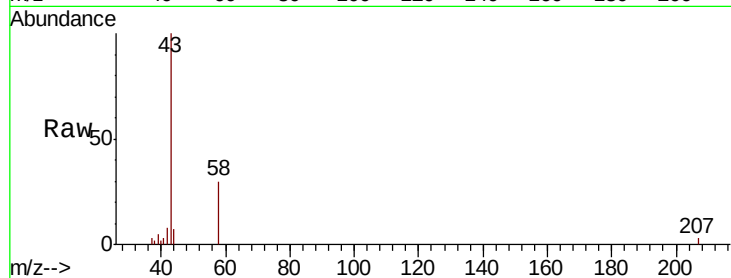
ClientSampleId :

Tot Ion: 43 Resp: 19759

Ion Ratio Lower Upper

43 100

58 30.4 25.1 37.7



#18

Methyl Acetate

Concen: 0.774 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.02 min

Lab File: VN060956.D

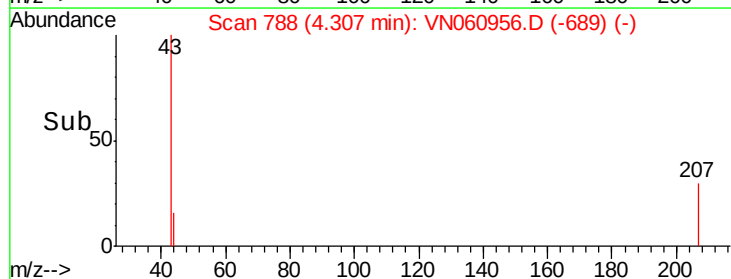
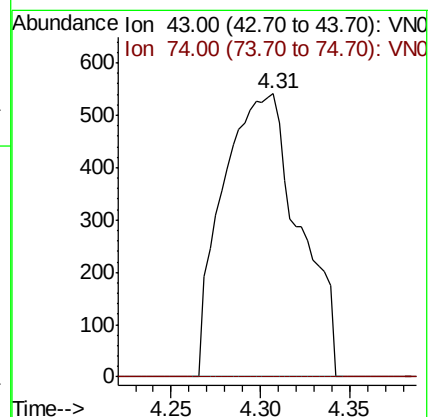
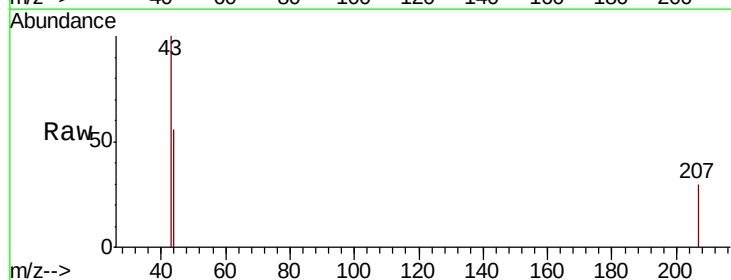
Acq: 15 Apr 2020 13:13

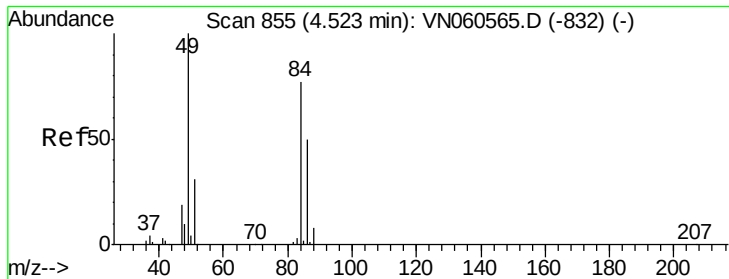
Tgt Ion: 43 Resp: 1611

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#

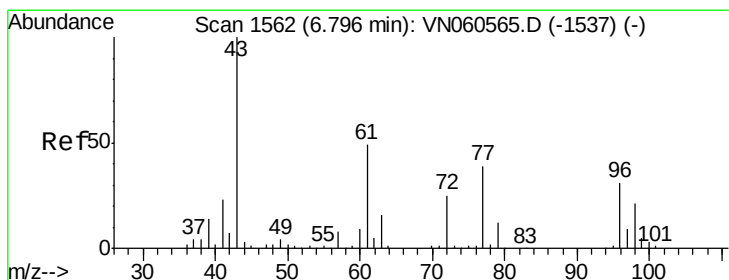
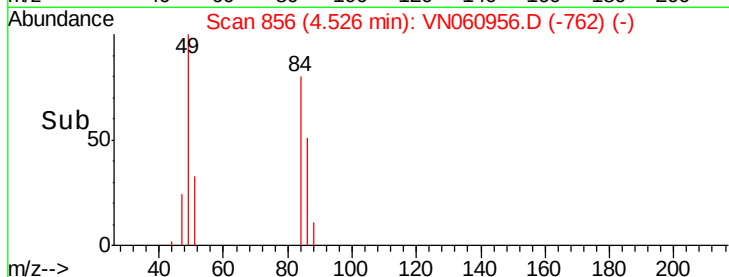
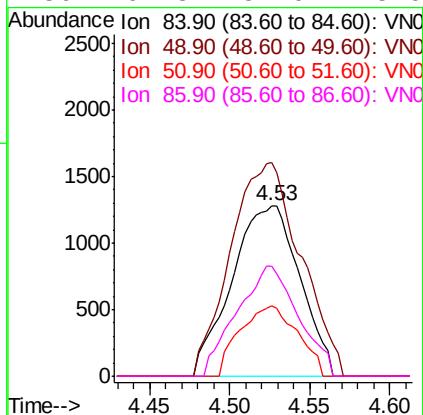
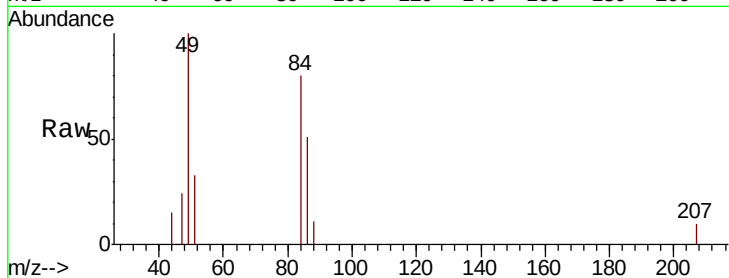




#20
Methylene Chloride
Concen: 2.057 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

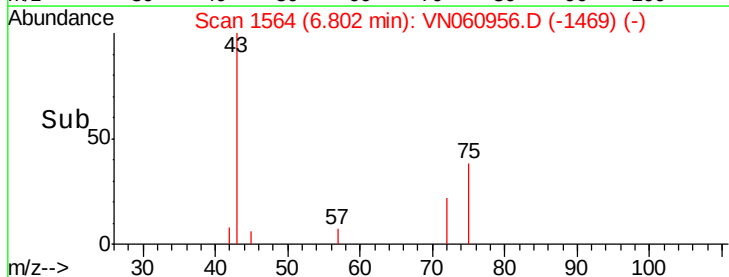
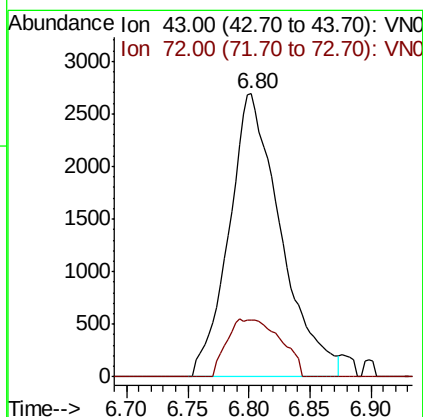
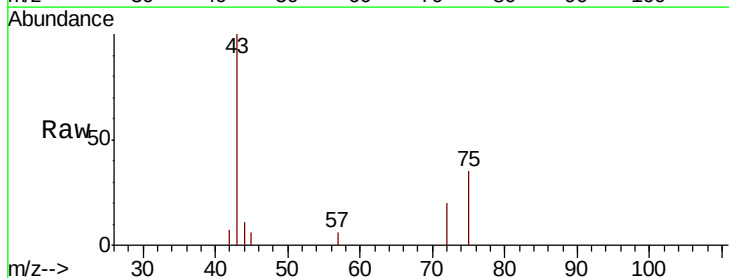
Instrument :
MSVOA_N
ClientSampled :

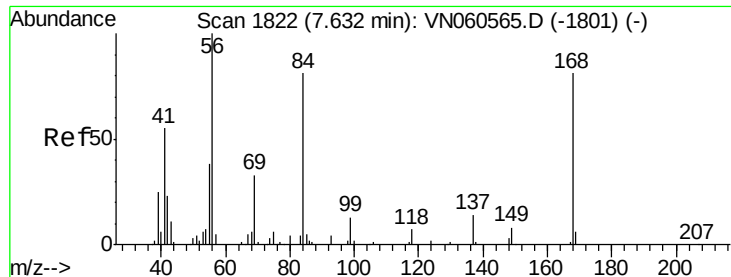
Tot Ion:	84	Resp:	3739
Ion	Ratio	Lower	Upper
84	100		
49	125.0	103.3	154.9
51	41.5	31.6	47.4
86	64.3	52.0	78.0



#25
2-Butanone
Concen: 6.643 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Tgt Ion:	43	Resp:	7944
Ion	Ratio	Lower	Upper
43	100		
72	20.1	20.4	30.6#

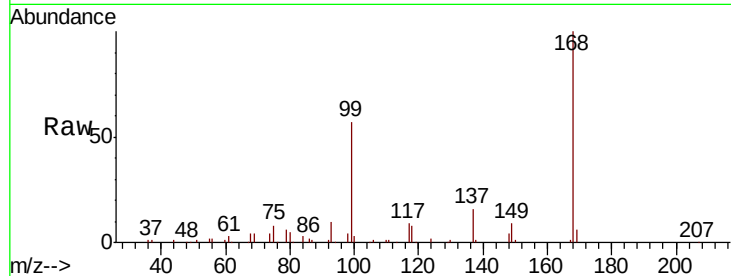




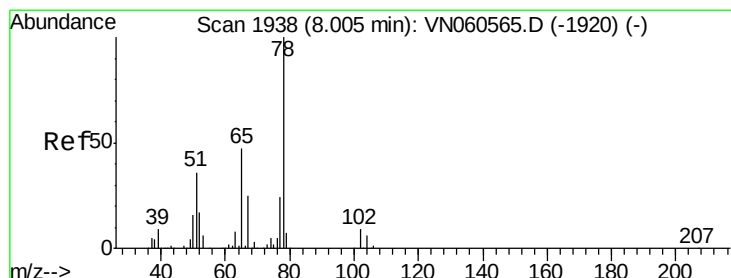
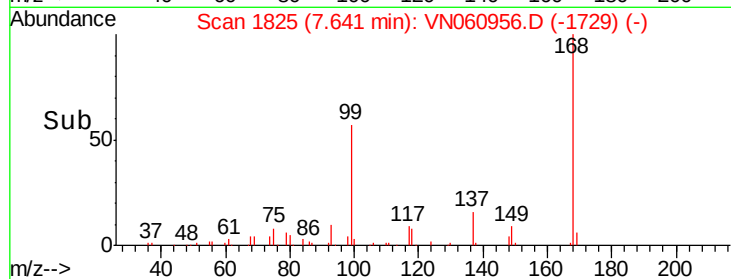
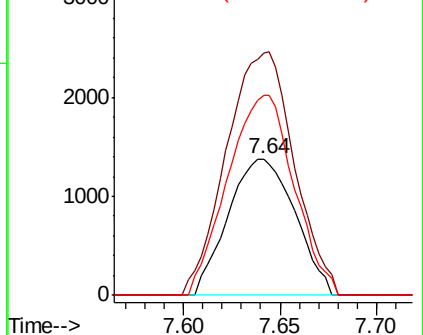
#31
Cyclohexane
Concen: 0.985 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3309
Ion Ratio Lower Upper
56 100
69 177.7 26.6 40.0#
84 146.8 64.3 96.5#

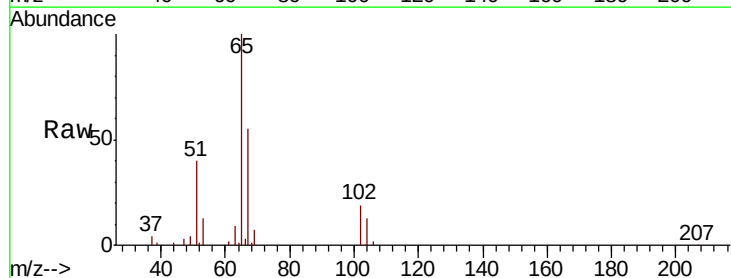


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

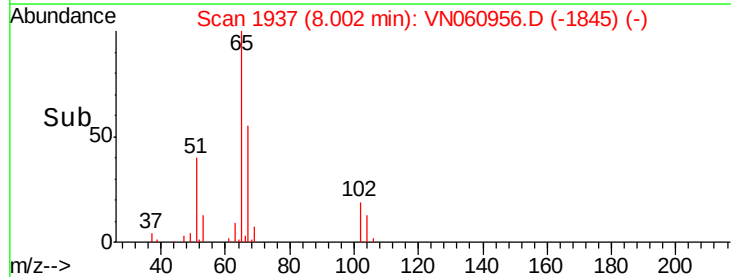
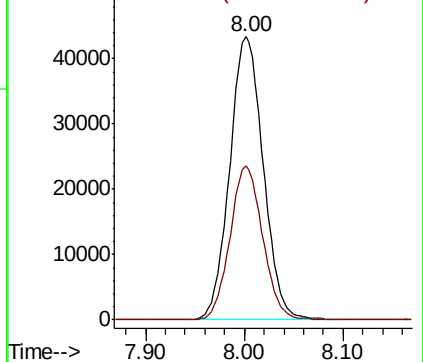


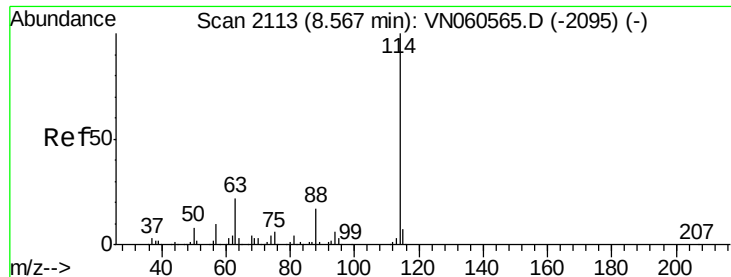
#33
1,2-Dichloroethane-d4
Concen: 49.224 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Tgt Ion: 65 Resp: 102702
Ion Ratio Lower Upper
65 100
67 53.1 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: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060956.D

Acq: 15 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

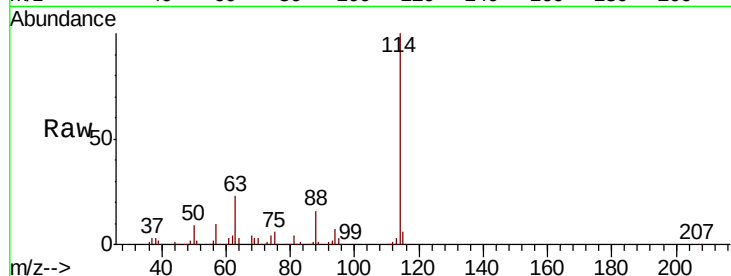
Tot Ion:114 Resp: 259543

Ion Ratio Lower Upper

114 100

63 23.2 0.0 43.8

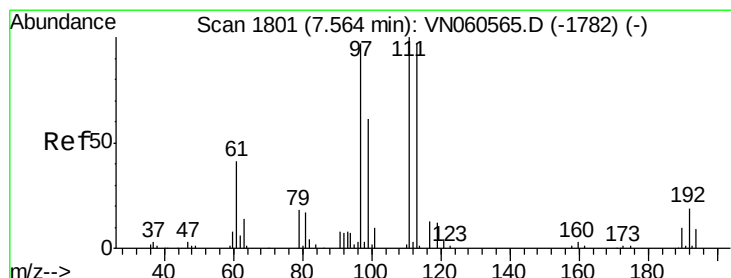
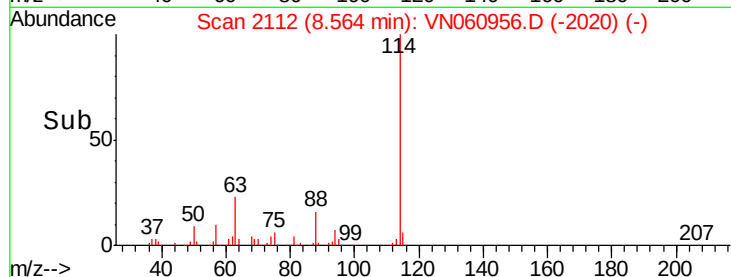
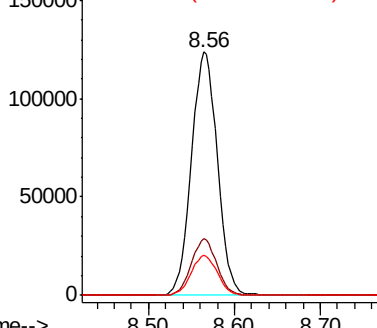
88 16.3 0.0 33.0



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: 49.054 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060956.D

Acq: 15 Apr 2020 13:13

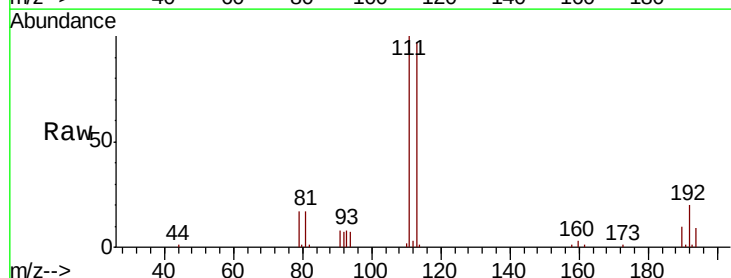
Tgt Ion:113 Resp: 76984

Ion Ratio Lower Upper

113 100

111 103.4 82.9 124.3

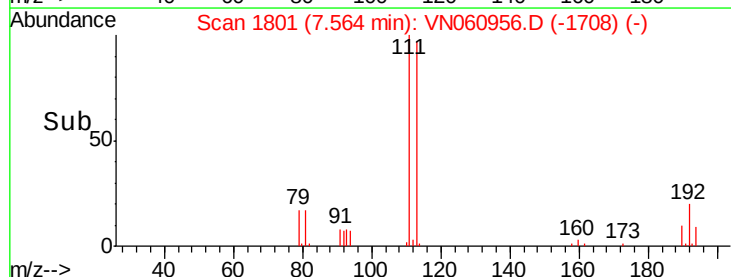
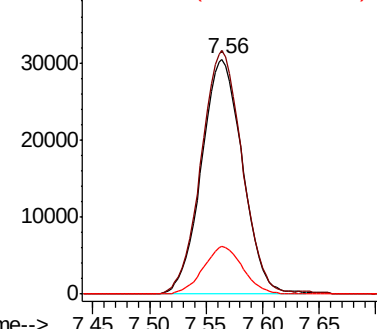
192 19.5 15.8 23.8

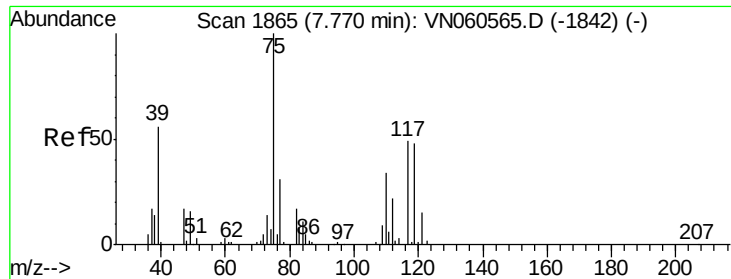


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

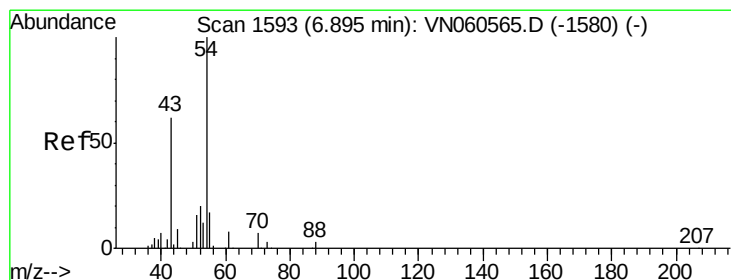
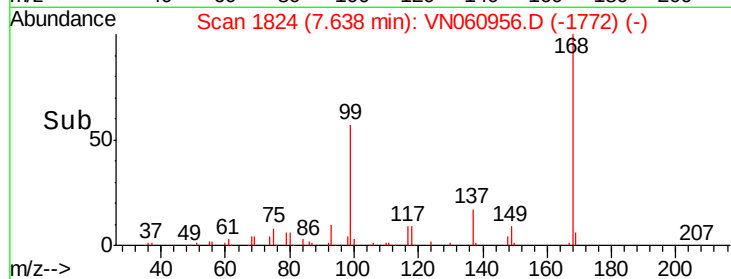
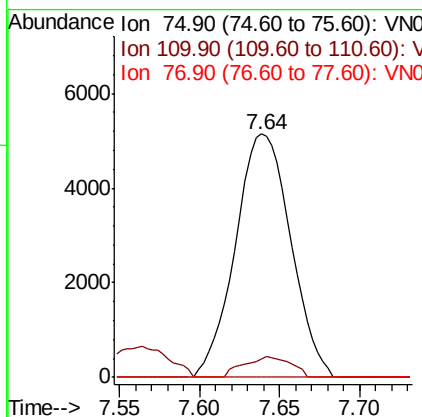
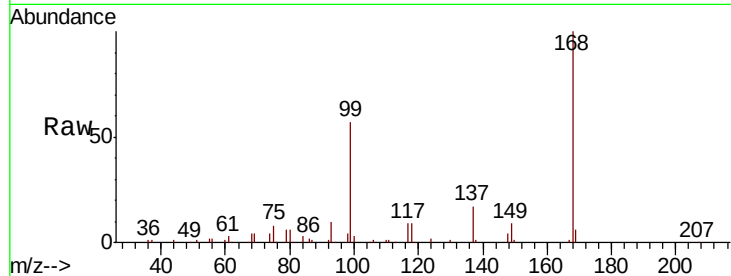




#36
 1,1-Dichloropropene
 Concen: 4.866 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060956.D
 Acq: 15 Apr 2020 13:13

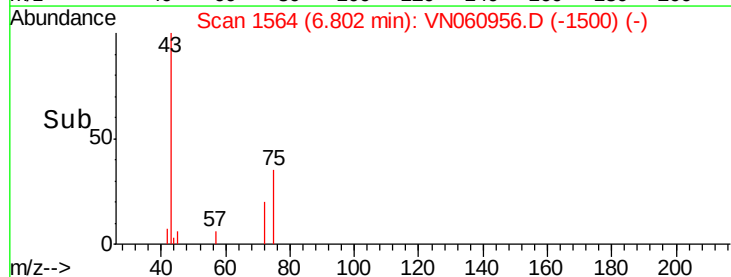
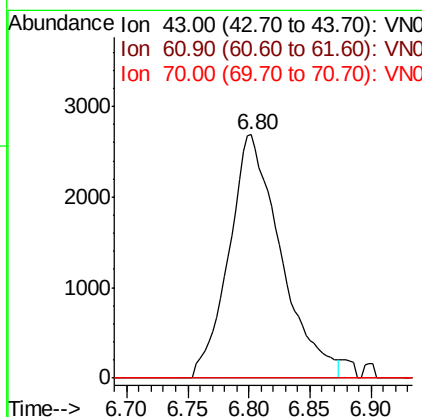
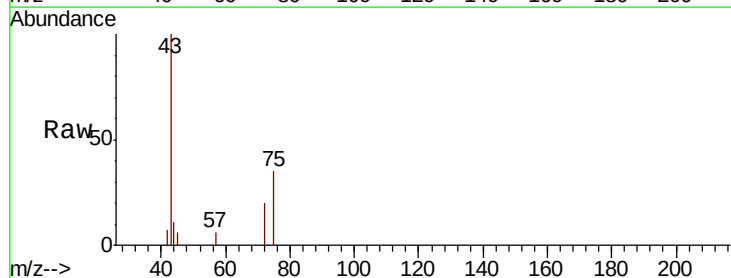
Instrument :
 MSVOA_N
 ClientSampled :

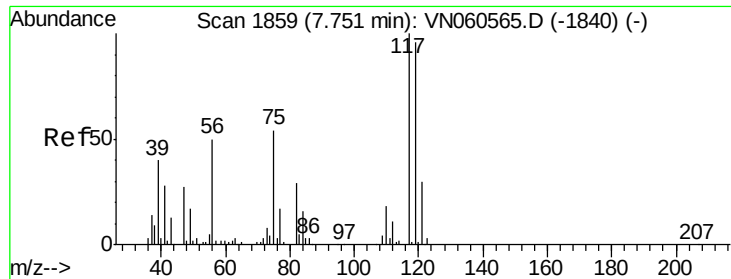
Tot Ion: 75 Resp: 12230
 Ion Ratio Lower Upper
 75 100
 110 7.2 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 2.925 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.09 min
 Lab File: VN060956.D
 Acq: 15 Apr 2020 13:13

Tgt Ion: 43 Resp: 7944
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.9 11.9#

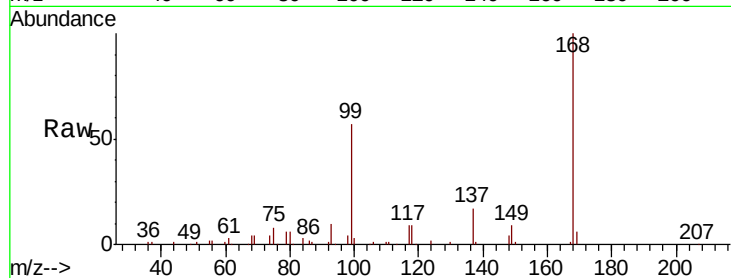




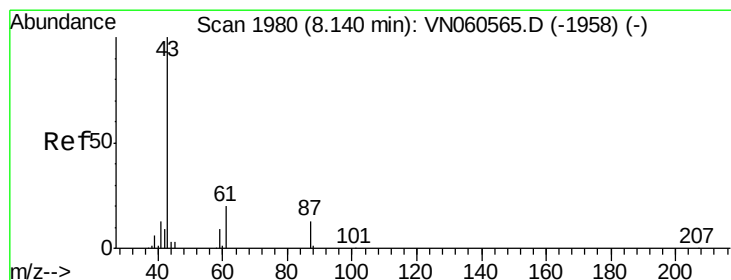
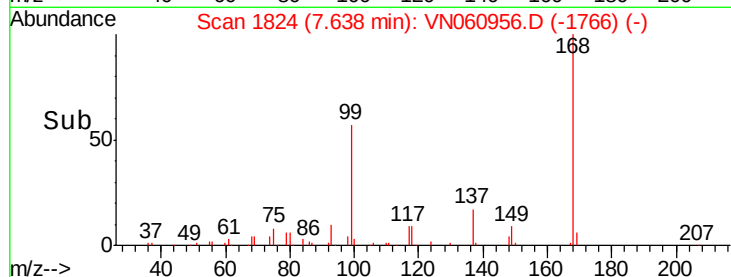
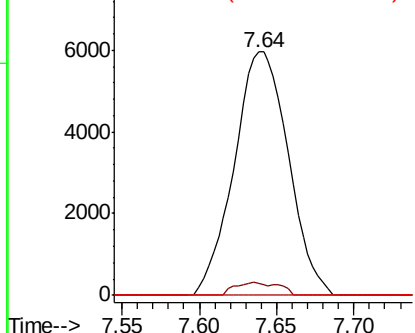
#38
Carbon Tetrachloride
Concen: 6.441 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 14509
Ion Ratio Lower Upper
117 100
119 4.8 76.2 114.2#
121 0.0 23.7 35.5#

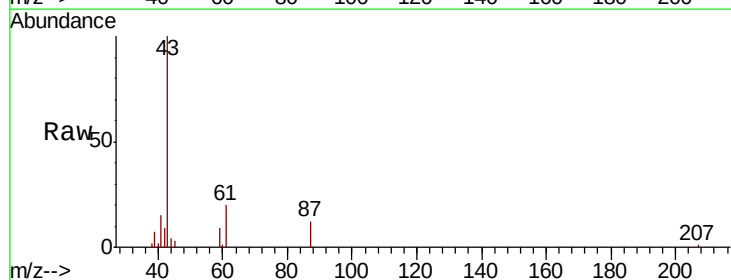


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

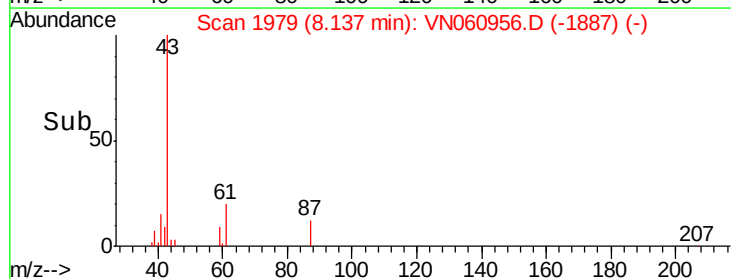
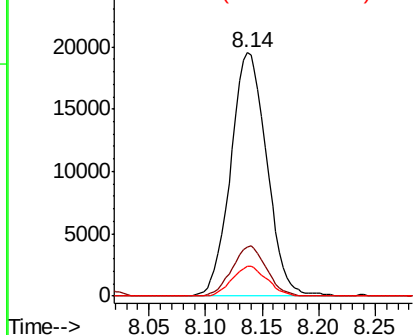


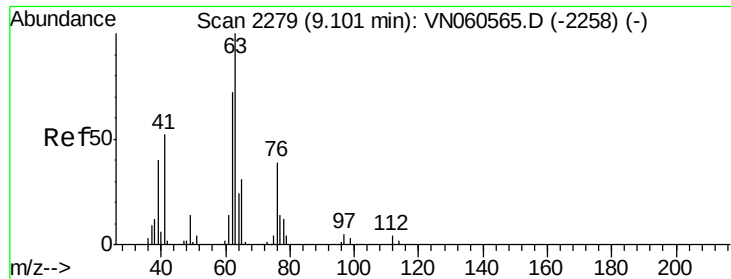
#43
Isopropyl Acetate
Concen: 9.704 ug/l
RT: 8.14 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Tgt Ion: 43 Resp: 43459
Ion Ratio Lower Upper
43 100
61 19.6 20.7 31.1#
87 11.7 9.8 14.8



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

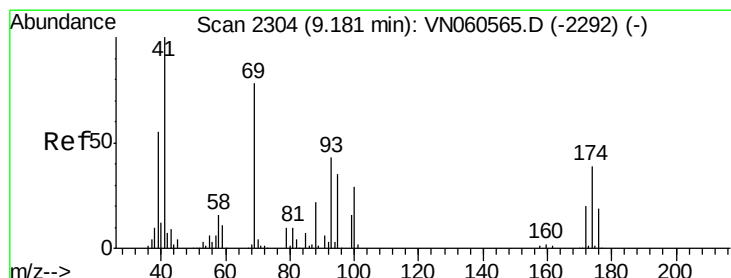
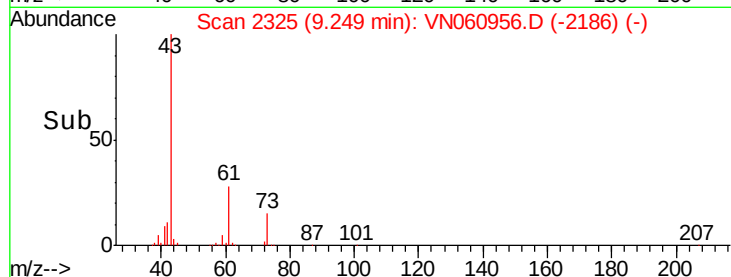
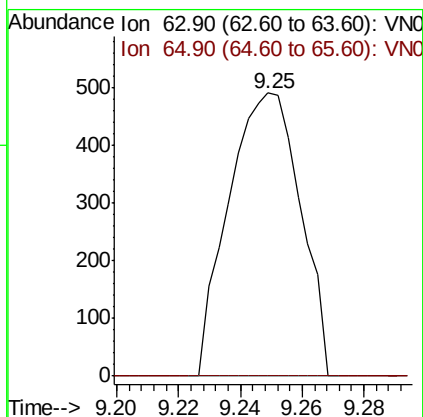
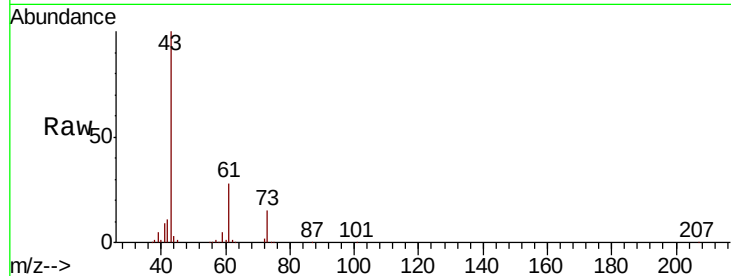




#45
 1,2-Dichloropropane
 Concen: 0.394 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060956.D
 Acq: 15 Apr 2020 13:13

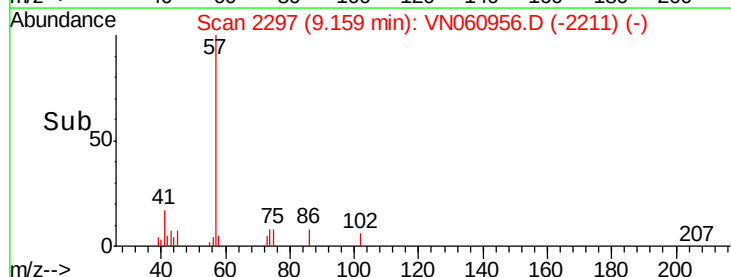
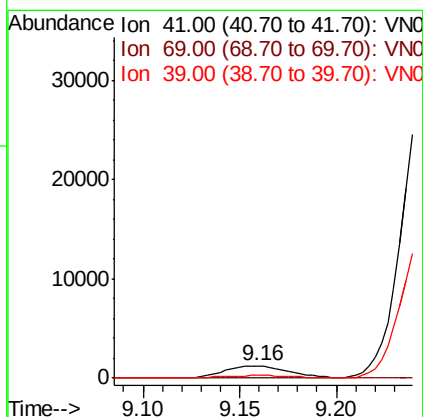
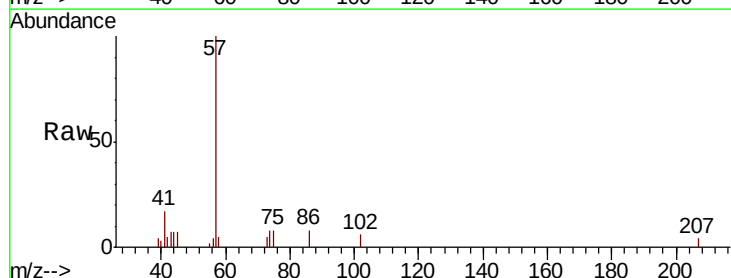
Instrument :
 MSVOA_N
 ClientSampled :

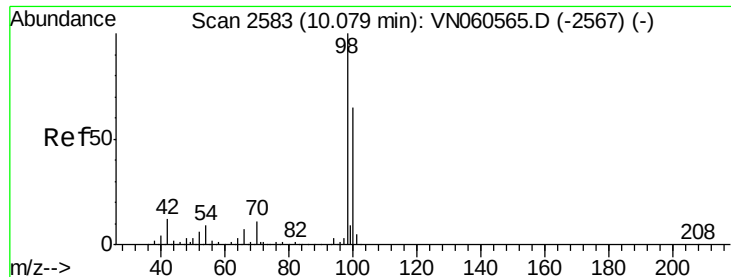
Tot Ion: 63 Resp: 788
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.398 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060956.D
 Acq: 15 Apr 2020 13:13

Tgt Ion: 41 Resp: 2787
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#

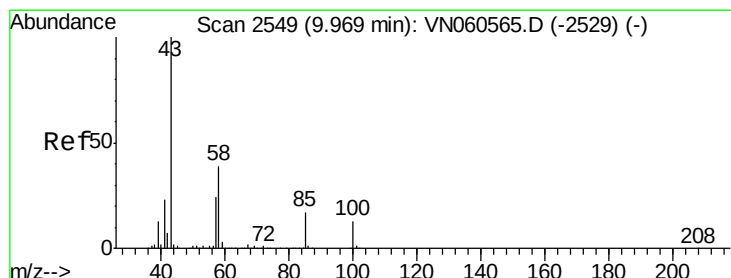
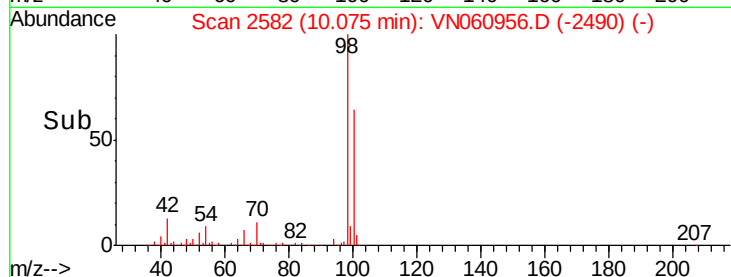
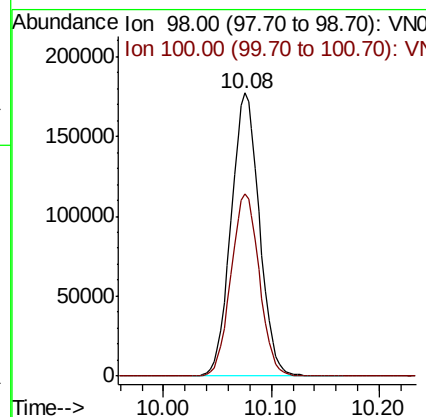
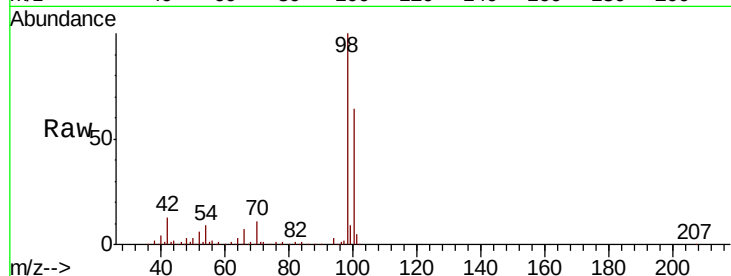




#50
Toluene-d8
Concen: 50.418 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

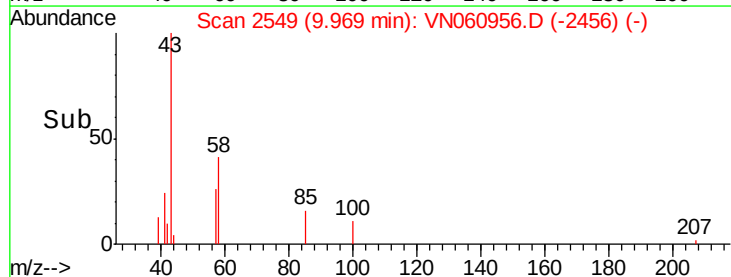
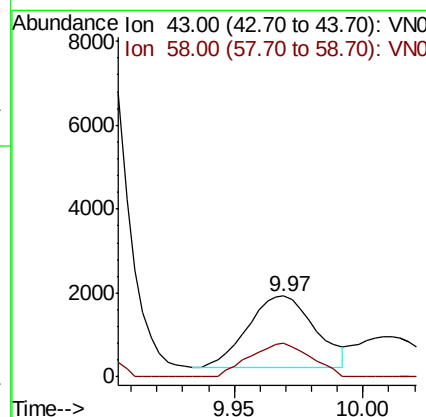
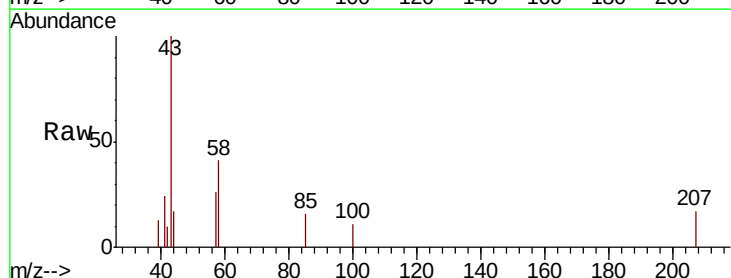
Instrument :
MSVOA_N
ClientSampled :

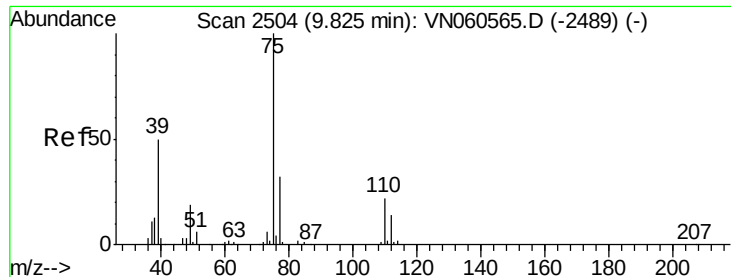
Tot Ion: 98 Resp: 323195
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.229 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Tgt Ion: 43 Resp: 3131
Ion Ratio Lower Upper
43 100
58 42.3 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 4.965 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060956.D

Acq: 15 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

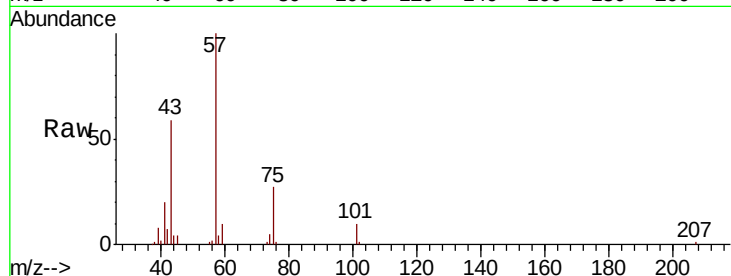
Tot Ion: 75 Resp: 15736

Ion Ratio Lower Upper

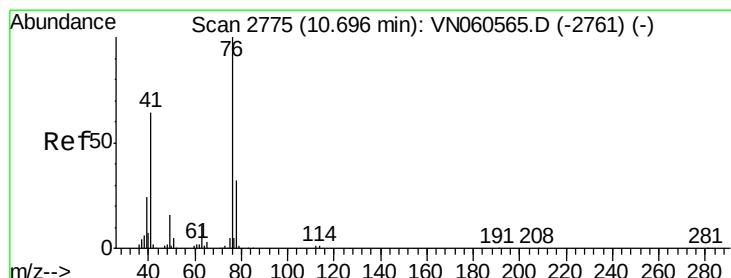
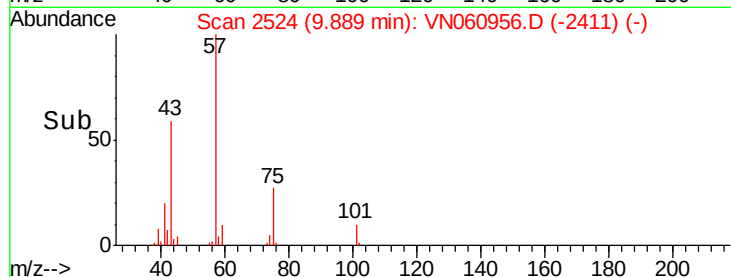
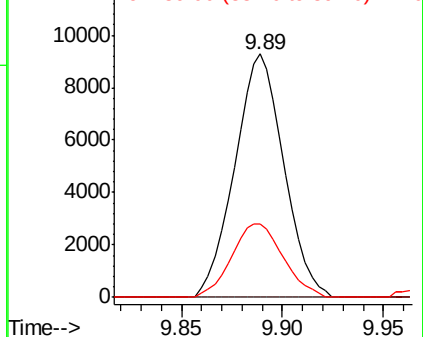
75 100

77 0.0 25.4 38.0#

39 30.3 40.2 60.4#



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



#57

1,3-Dichloropropane

Concen: 0.705 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060956.D

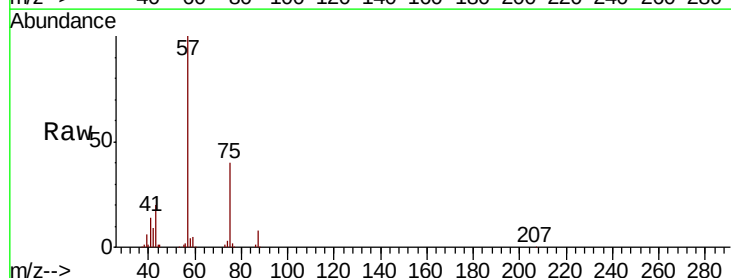
Acq: 15 Apr 2020 13:13

Tgt Ion: 76 Resp: 2157

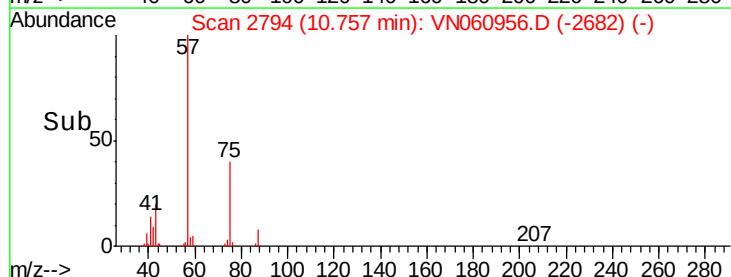
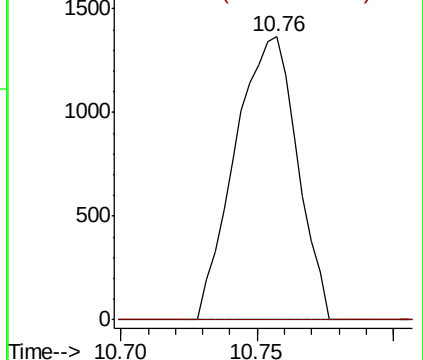
Ion Ratio Lower Upper

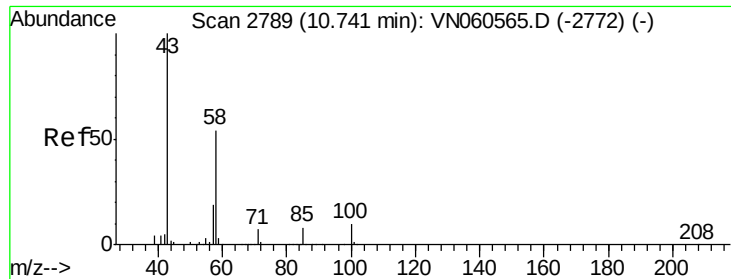
76 100

78 0.0 25.8 38.6#



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

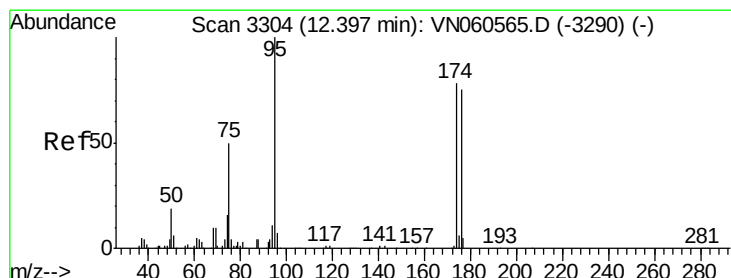
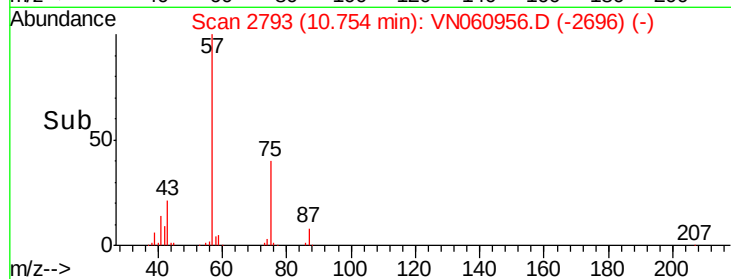
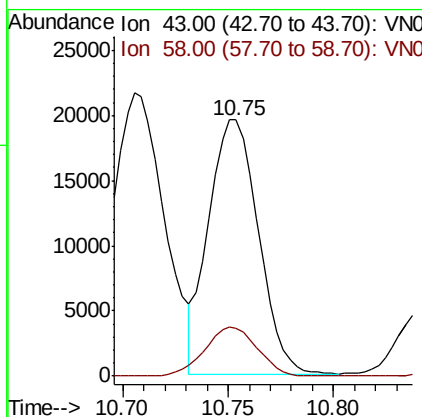
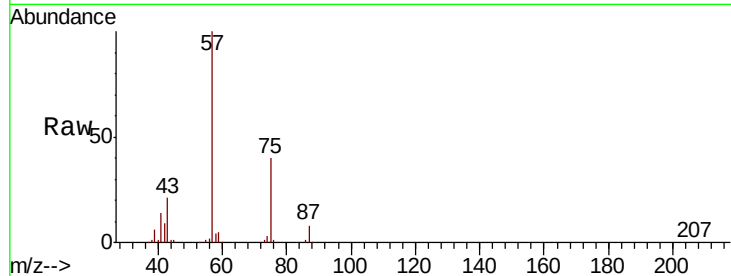




#59
2-Hexanone
Concen: 17.508 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

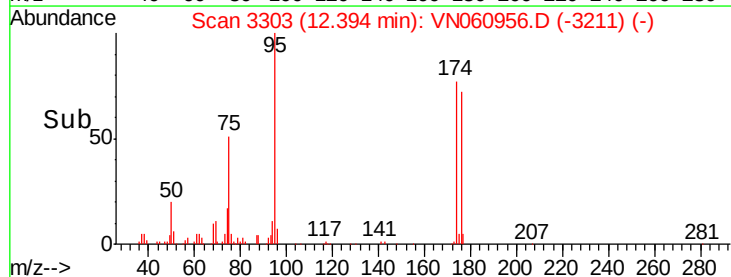
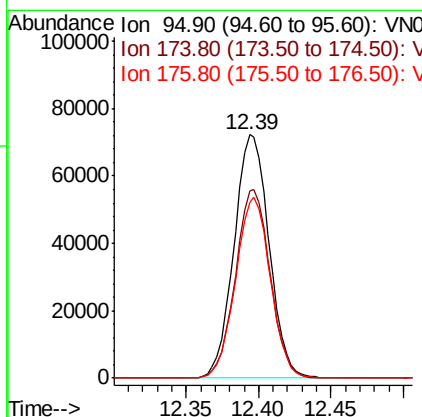
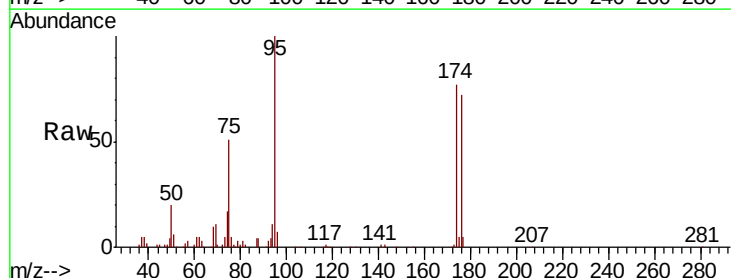
Instrument :
MSVOA_N
ClientSampled :

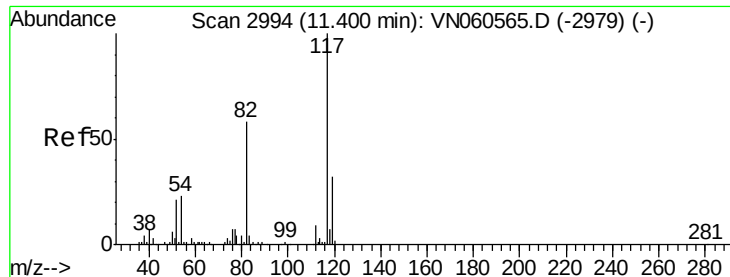
Tot Ion: 43 Resp: 32140
Ion Ratio Lower Upper
43 100
58 20.3 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.554 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.00 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Tgt Ion: 95 Resp: 121115
Ion Ratio Lower Upper
95 100
174 76.8 0.0 157.6
176 73.7 0.0 150.6

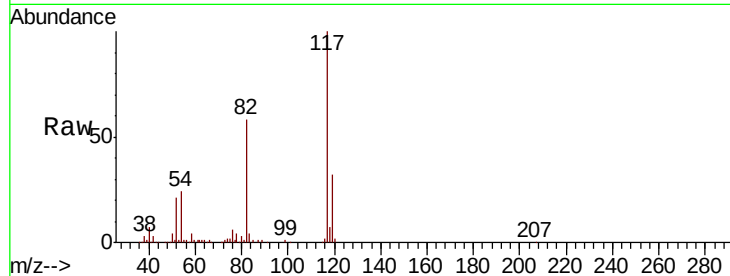




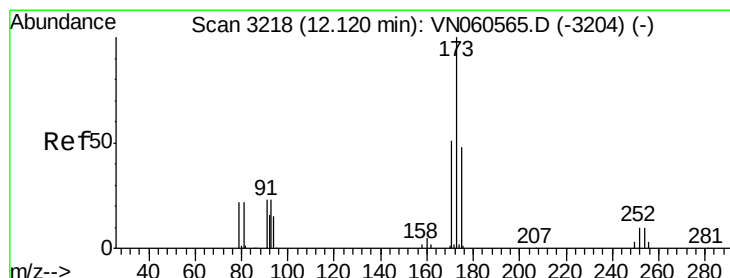
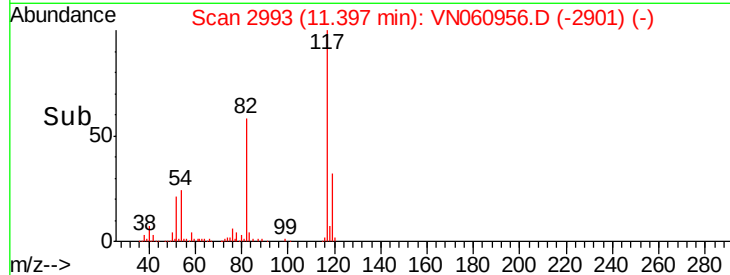
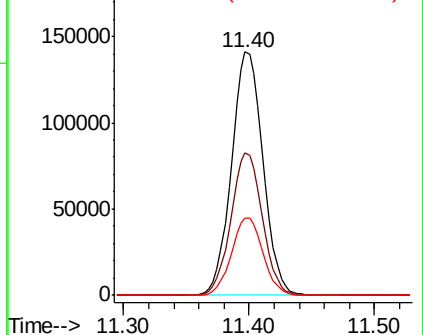
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 245009
Ion Ratio Lower Upper
117 100
82 58.3 46.7 70.1
119 31.8 25.5 38.3

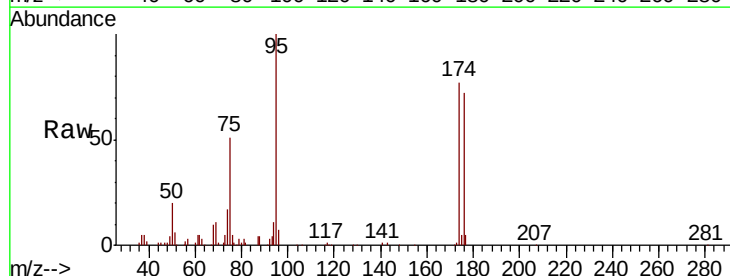


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

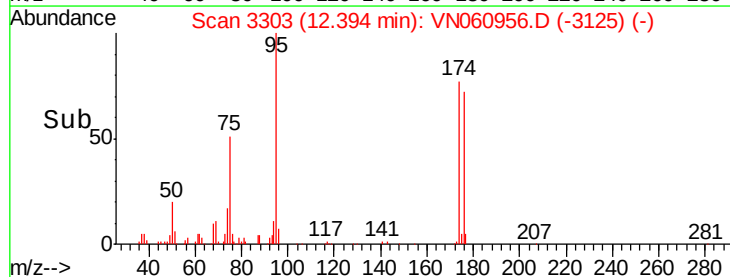
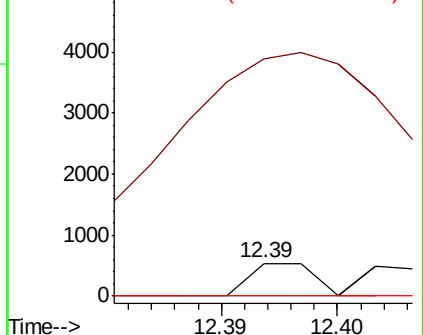


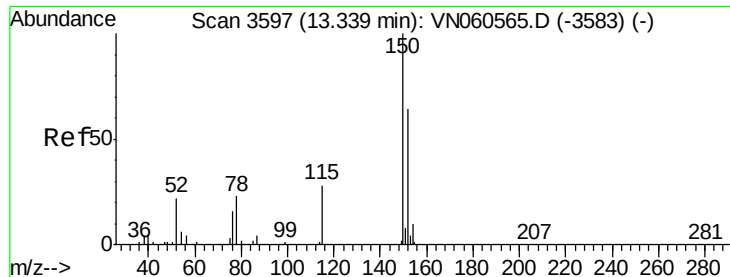
#71
Bromoform
Concen: 1.816 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060956.D
Acq: 15 Apr 2020 13:13

Tgt Ion:173 Resp: 205
Ion Ratio Lower Upper
173 100
175 2799.0 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

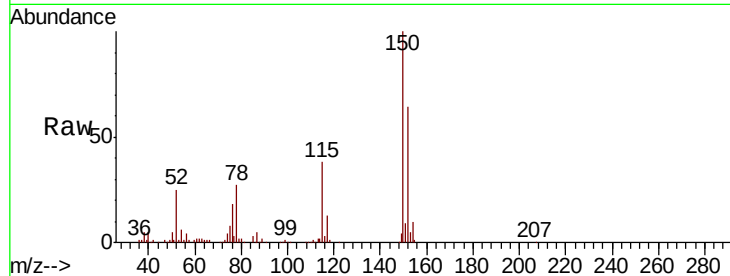




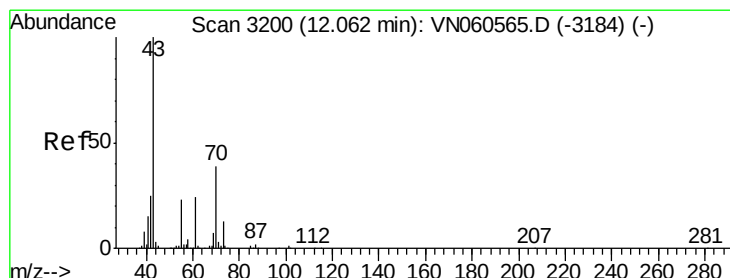
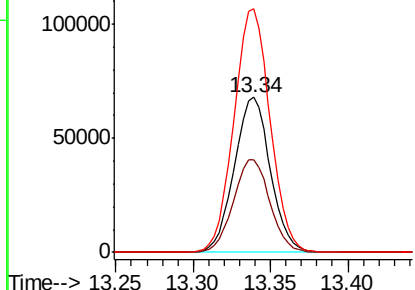
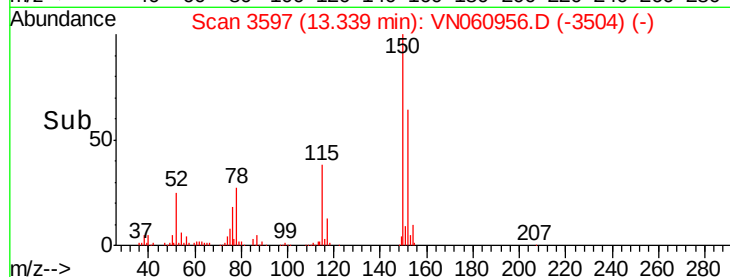
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN060956.D
 Acq: 15 Apr 2020 13:13

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.2	90.6
150	157.8	0.0	350.2

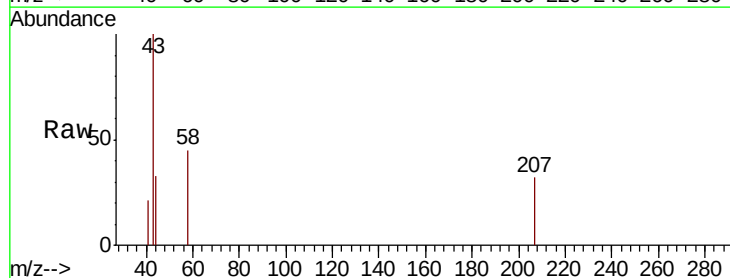


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

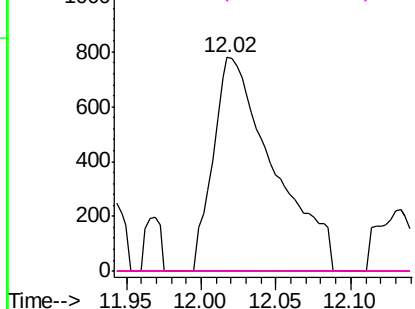
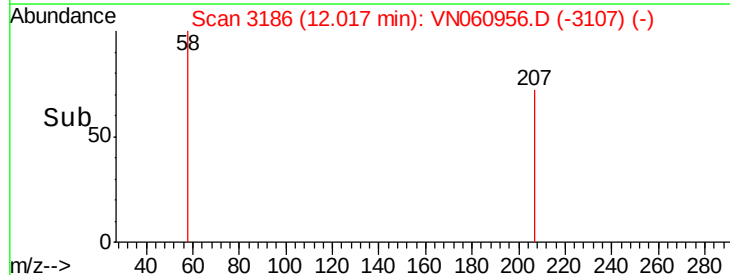


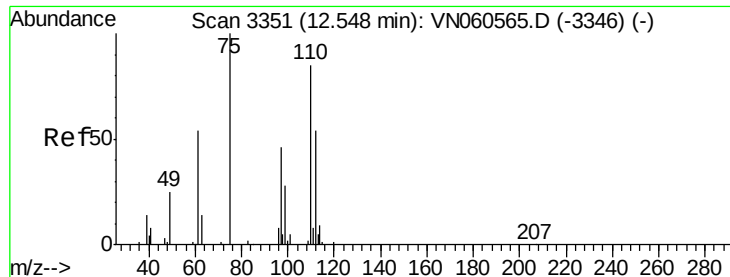
#74
 N-ethyl acetate
 Concen: 0.573 ug/l
 RT: 12.02 min Scan# 3186
 Delta R.T. -0.04 min
 Lab File: VN060956.D
 Acq: 15 Apr 2020 13:13

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.1	46.7#
55	0.0	18.6	27.8#
61	0.0	18.9	28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 70.00 (69.70 to 70.70): VN
 Ion 55.00 (54.70 to 55.70): VN
 Ion 61.00 (60.70 to 61.70): VN





#76

1,2,3-Trichloropropane

Concen: 25.788 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060956.D

Acq: 15 Apr 2020 13:13

Instrument :

MSVOA_N

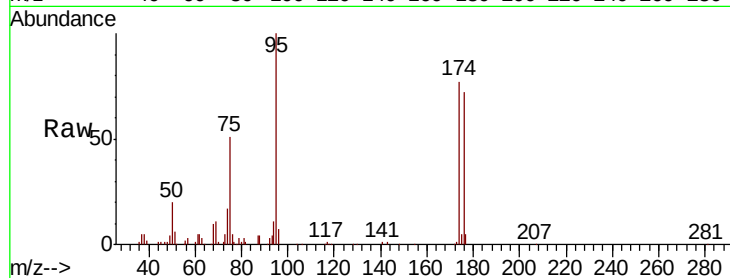
ClientSampled :

Tot Ion: 75 Resp: 61114

Ion Ratio Lower Upper

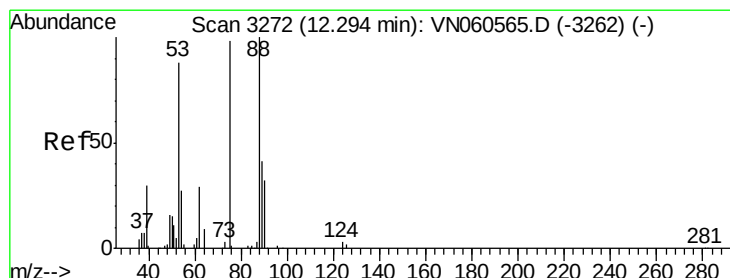
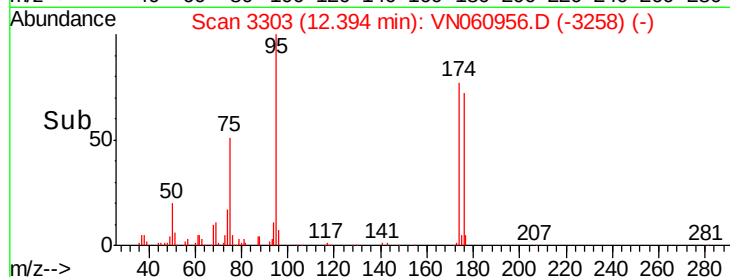
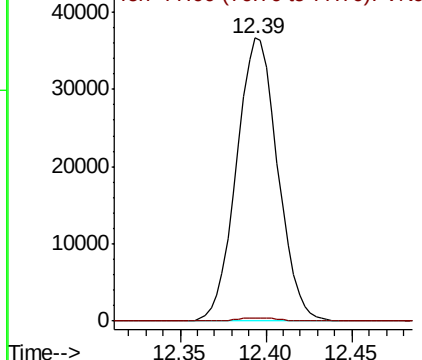
75 100

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: 66.231 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060956.D

Acq: 15 Apr 2020 13:13

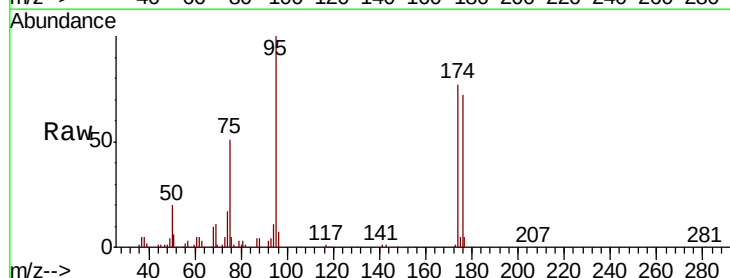
Tgt Ion: 75 Resp: 61114

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

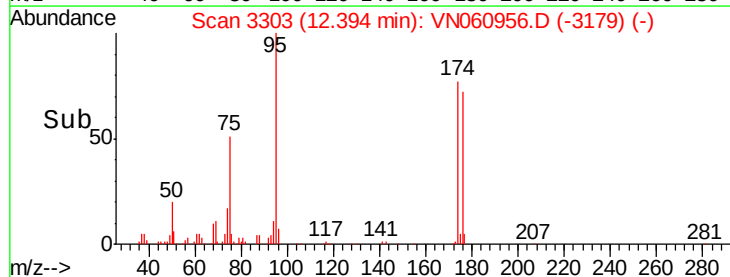
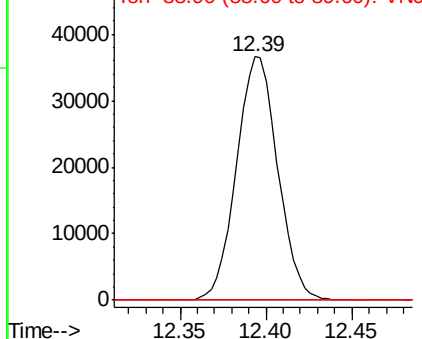
89 0.0 34.8 52.2#

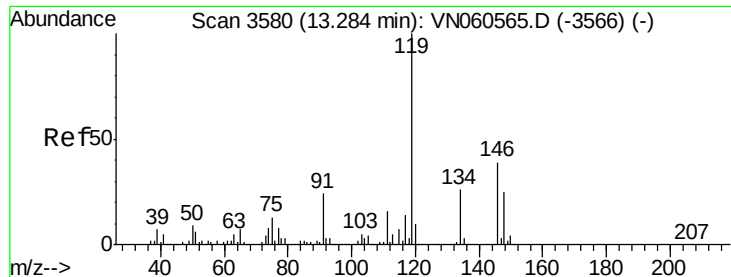


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

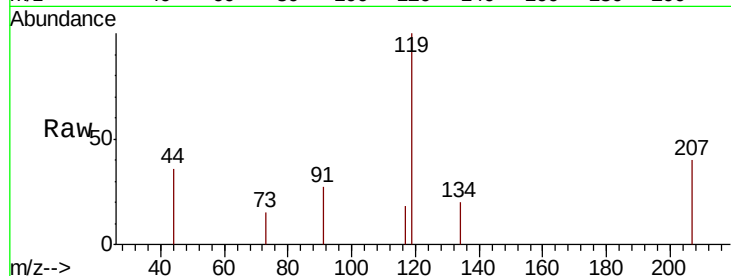




#86
 p-Isopropyltoluene
 Concen: 0.202 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN060956.D
 Acq: 15 Apr 2020 13:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	16.2	13.0	39.0
91	21.1	12.0	36.0



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

