

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060969.D
 Acq On : 15 Apr 2020 18:08
 Operator : JC/MD
 Sample : L2245-37
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:36:34 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	142082	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	243320	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	231121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	101495	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	95782	49.11	ug/l	0.00
Spiked Amount						
			Recovery	=	98.22%	
35) Dibromofluoromethane	7.56	113	72901	49.55	ug/l	0.00
Spiked Amount						
			Recovery	=	99.10%	
50) Toluene-d8	10.08	98	304646	50.69	ug/l	0.00
Spiked Amount						
			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	12.40	95	113334	51.46	ug/l	0.00
Spiked Amount						
			Recovery	=	102.92%	

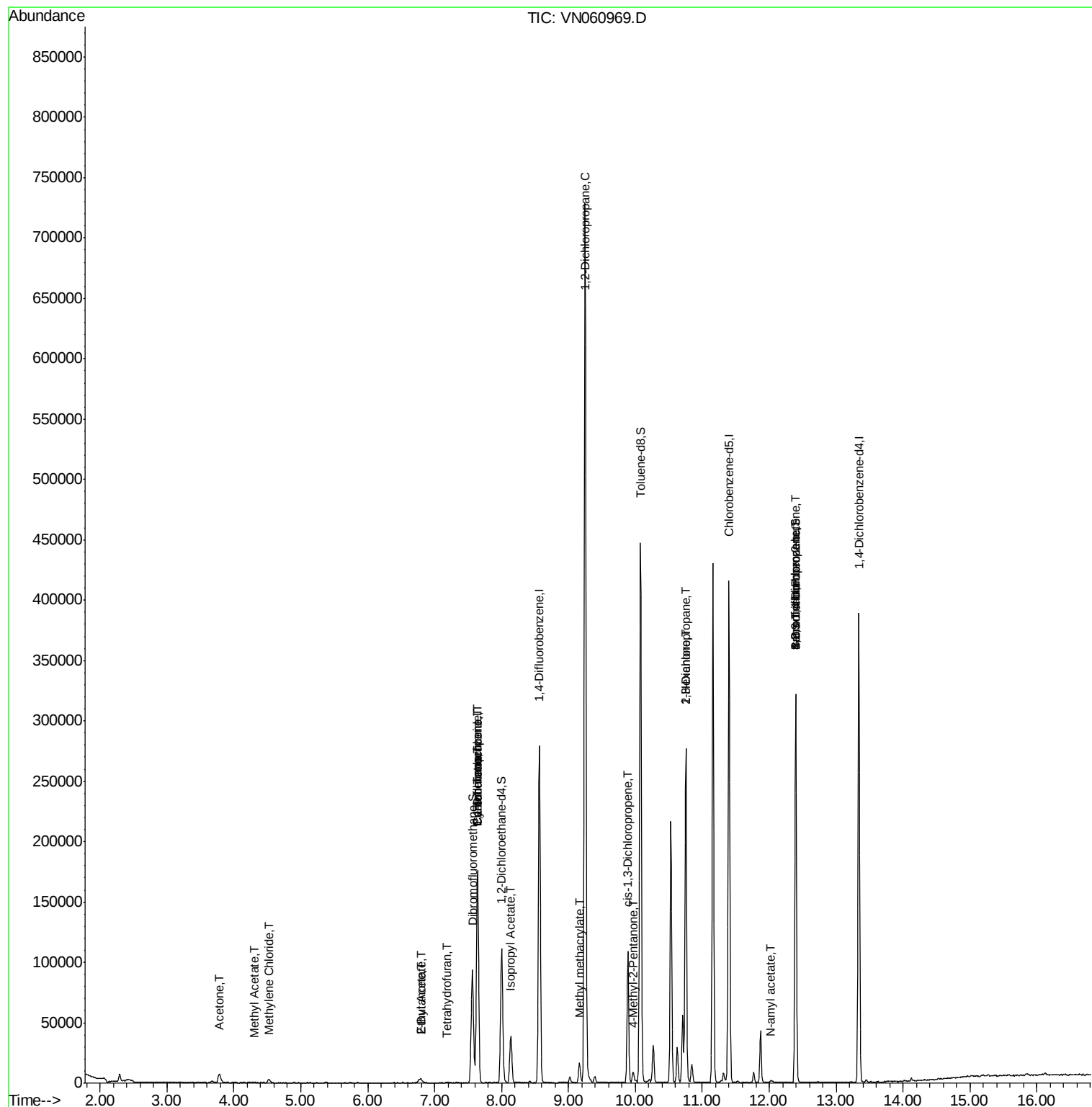
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	13731	19.874	ug/l	99
18) Methyl Acetate	4.30	43	1399	0.719	ug/l #	54
20) Methylene Chloride	4.53	84	1921	1.130	ug/l	89
25) 2-Butanone	6.81	43	4437	3.969	ug/l #	89
29) Tetrahydrofuran	7.18	42	378	0.478	ug/l #	35
31) Cyclohexane	7.63	56	2861	0.911	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11407	4.841	ug/l #	49
37) Ethyl Acetate	6.81	43	4437	1.743	ug/l #	70
38) Carbon Tetrachloride	7.64	117	14073	6.664	ug/l #	16
43) Isopropyl Acetate	8.14	43	47951	11.421	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	705	0.376	ug/l #	43
48) Methyl methacrylate	9.16	41	2622	1.403	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5977	2.502	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	19468	6.552	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2536	0.884	ug/l #	42
59) 2-Hexanone	10.75	43	41362	24.033	ug/l #	52
71) Bromoform	12.39	173	258	1.861	ug/l #	1
74) N-amyl acetate	12.03	43	2382	0.677	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	57540	26.273	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	57540	67.478	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

Instrument :

MSVOA_N

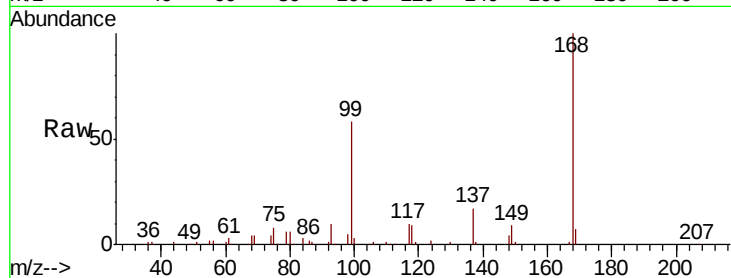
ClientSampled :

Tot Ion:168 Resp: 142082

Ion Ratio Lower Upper

168 100

99 58.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060565.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN060565.D (-1807) (-)

7.64

60000

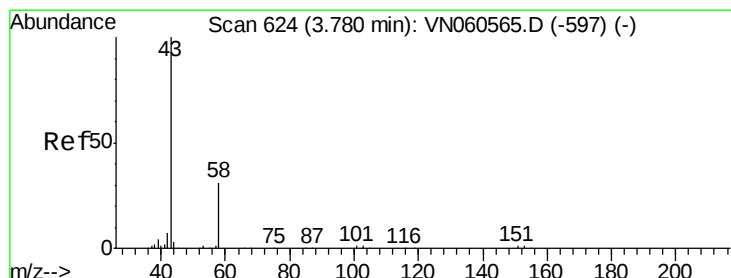
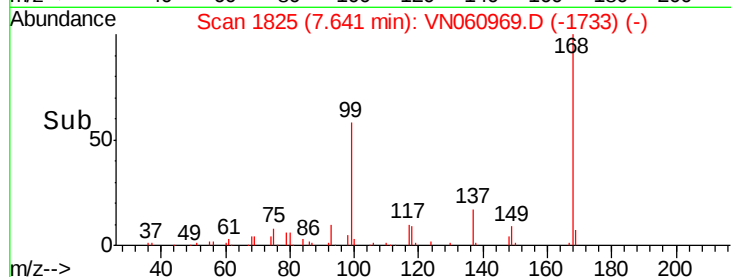
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 19.874 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060969.D

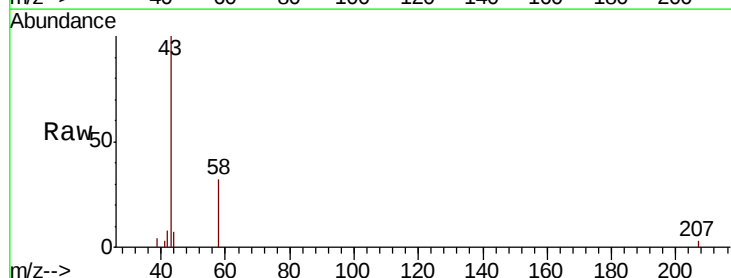
Acq: 15 Apr 2020 18:08

Tgt Ion: 43 Resp: 13731

Ion Ratio Lower Upper

43 100

58 31.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-597) (-)

3.78

5000

4000

3000

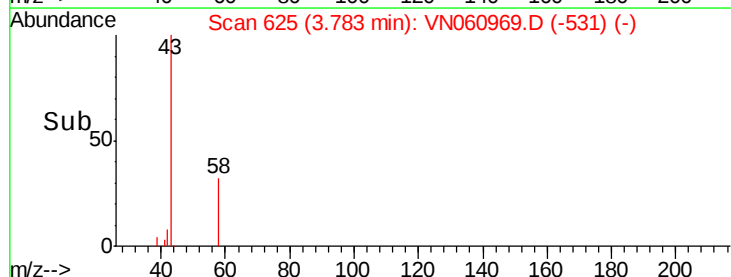
2000

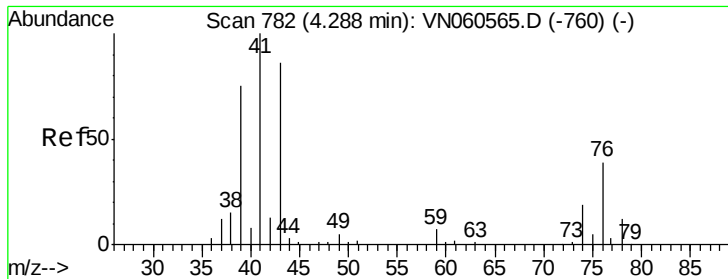
1000

0

3.70 3.75 3.80 3.85

Time-->

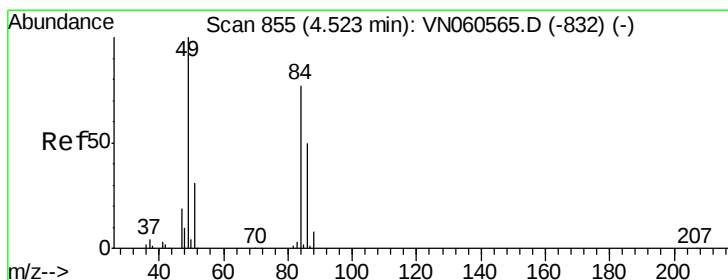
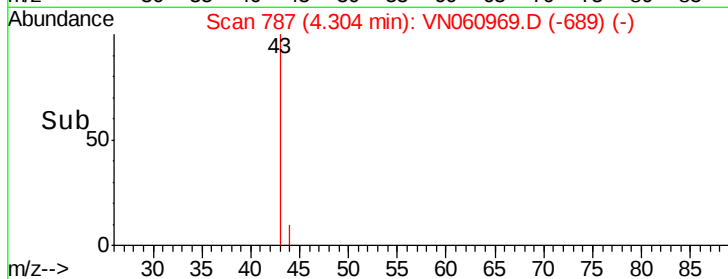
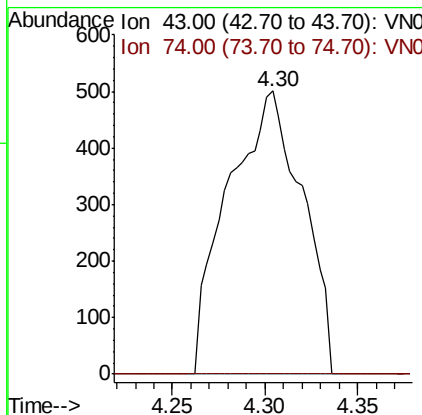
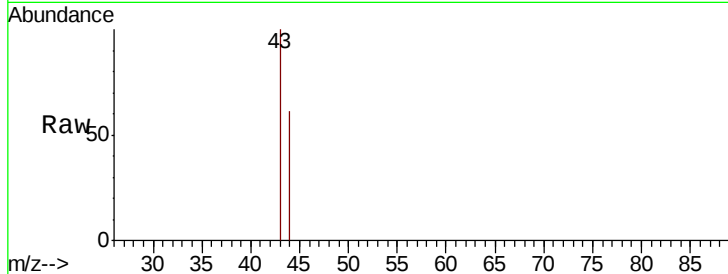




#18
Methyl Acetate
Concen: 0.719 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

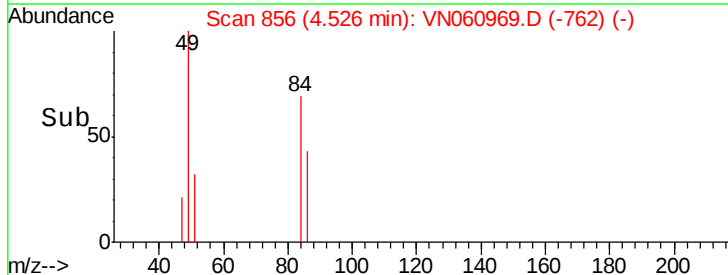
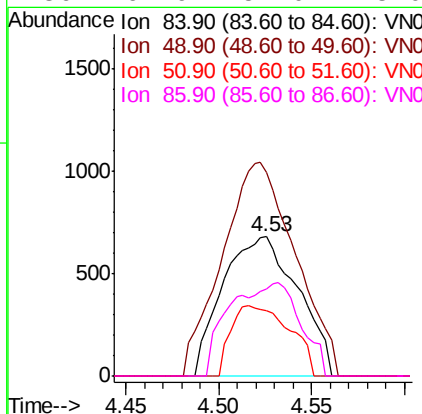
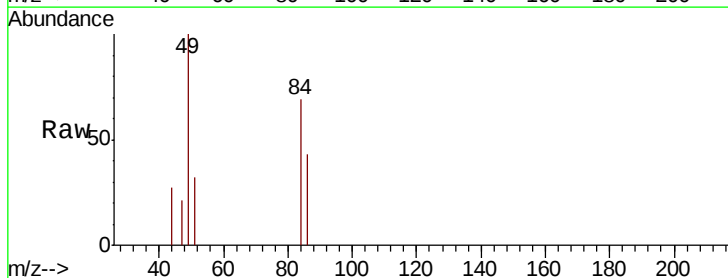
Instrument :
MSVOA_N
ClientSampled :

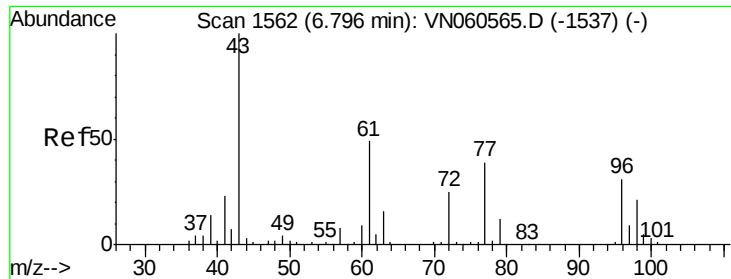
Tot Ion: 43 Resp: 1399
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.130 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

Tgt Ion: 84 Resp: 1921
Ion Ratio Lower Upper
84 100
49 145.9 103.3 154.9
51 47.1 31.6 47.4
86 62.9 52.0 78.0

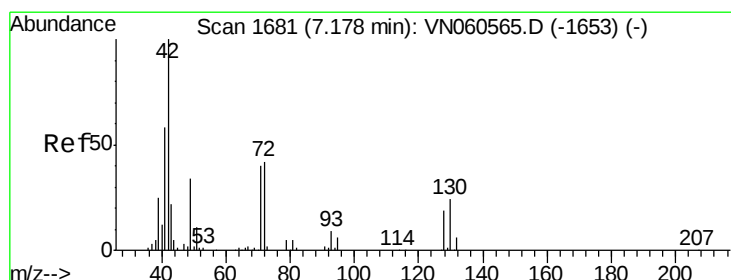
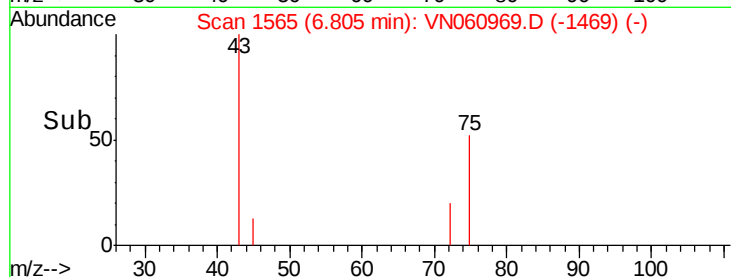
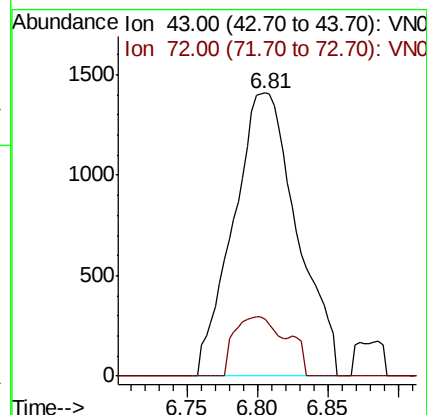
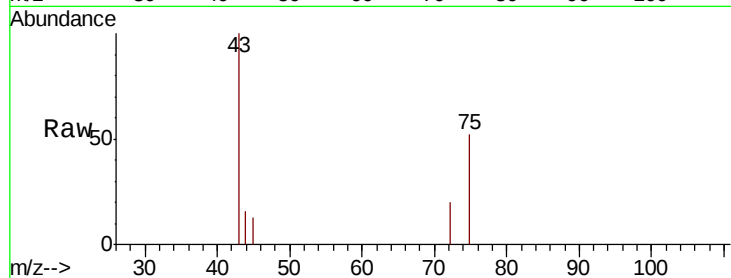




#25
2-Butanone
Concen: 3.969 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

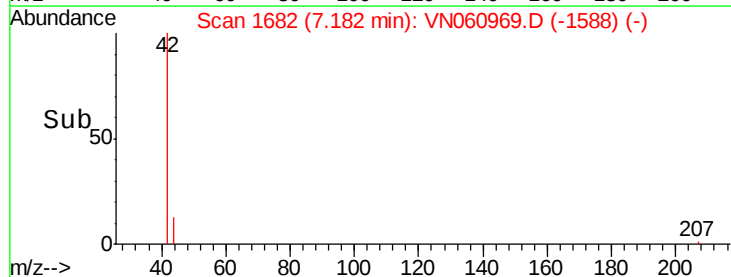
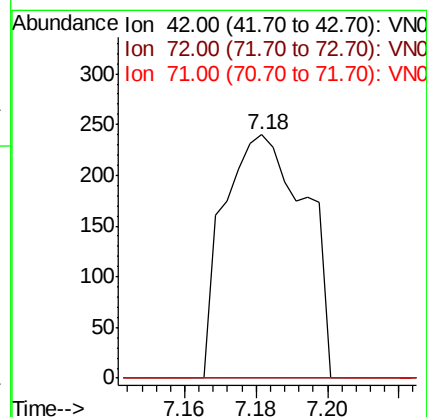
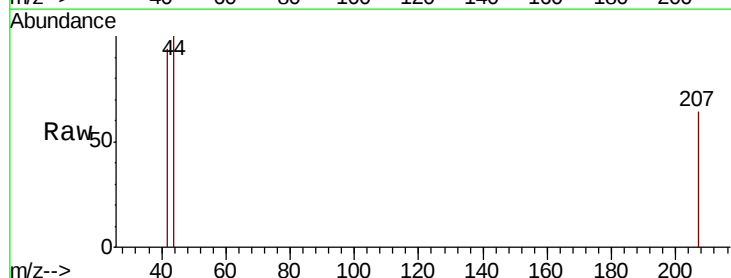
Instrument :
MSVOA_N
ClientSampled :

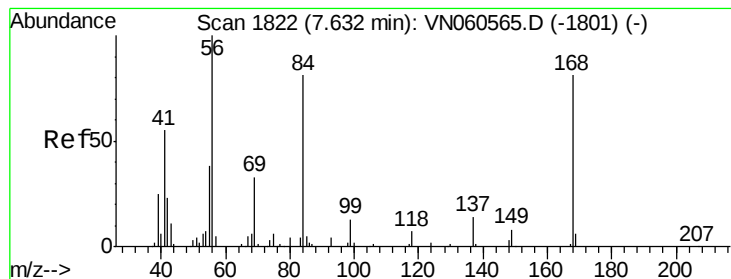
Tot Ion: 43 Resp: 4437
Ion Ratio Lower Upper
43 100
72 20.0 20.4 30.6#



#29
Tetrahydrofuran
Concen: 0.478 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

Tgt Ion: 42 Resp: 378
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#





#31

Cyclohexane

Concen: 0.911 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampled :

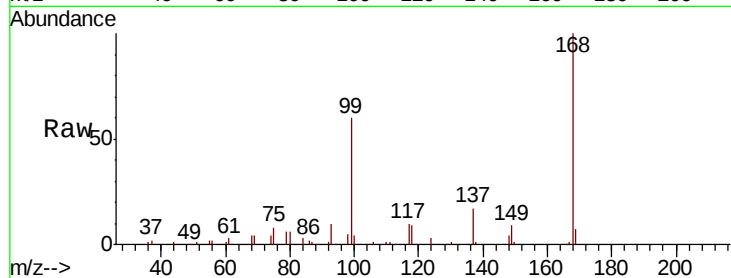
Tot Ion: 56 Resp: 2861

Ion Ratio Lower Upper

56 100

69 166.0 26.6 40.0#

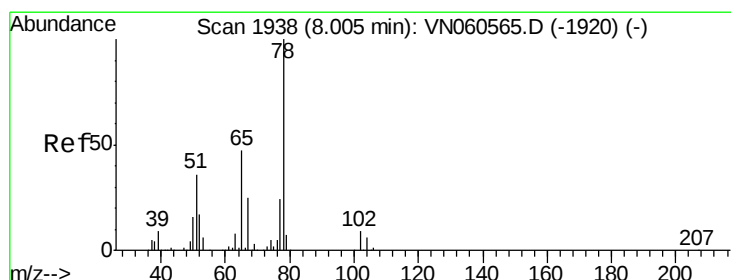
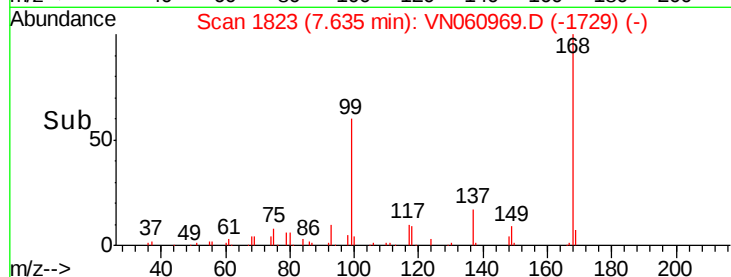
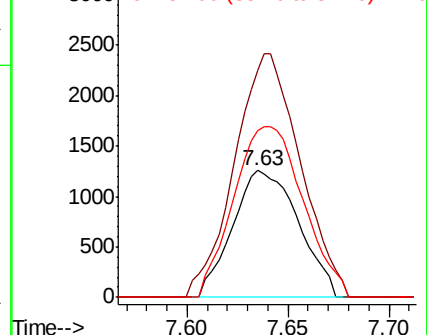
84 131.8 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060969.D (-1729) (-)

Ion 69.00 (68.70 to 69.70): VN060969.D (-1729) (-)

Ion 84.00 (83.70 to 84.70): VN060969.D (-1729) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.107 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060969.D

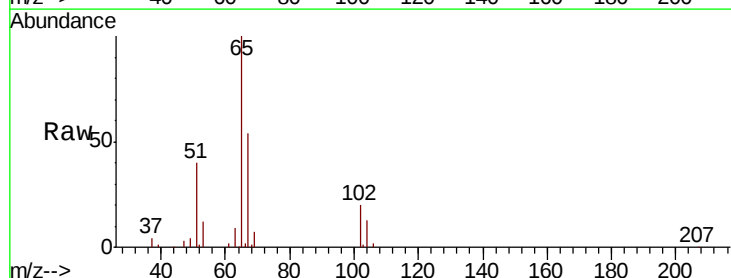
Acq: 15 Apr 2020 18:08

Tgt Ion: 65 Resp: 95782

Ion Ratio Lower Upper

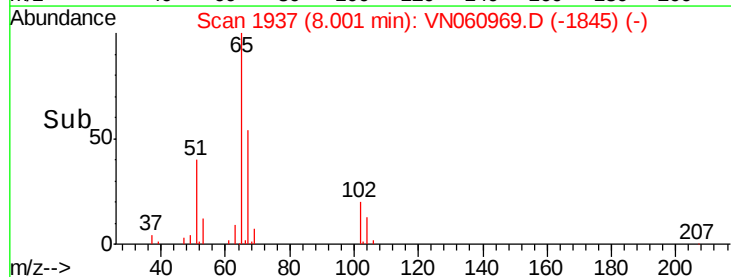
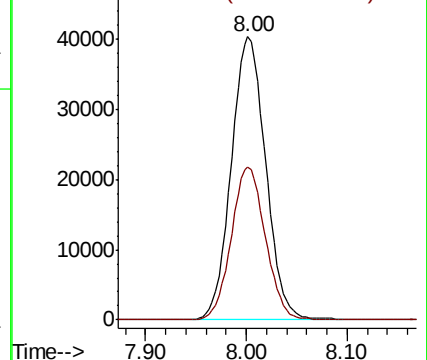
65 100

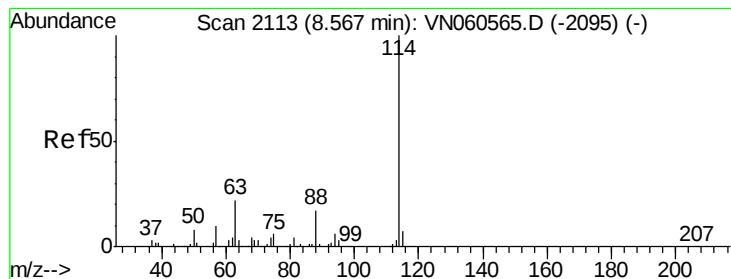
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060969.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060969.D (-1845) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

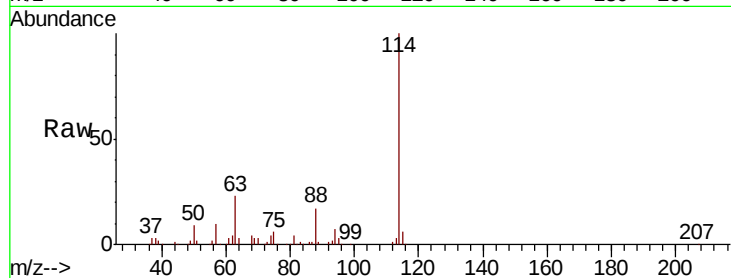
Tot Ion:114 Resp: 243320

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.8

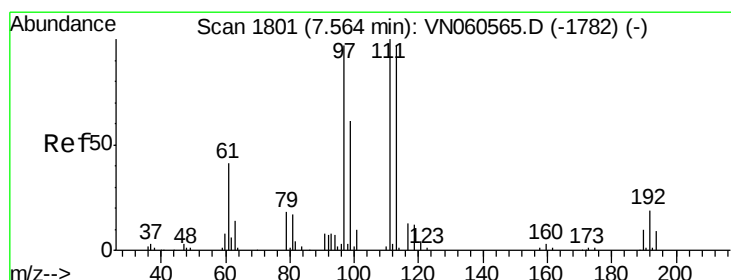
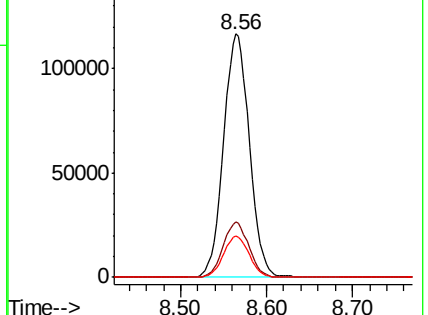
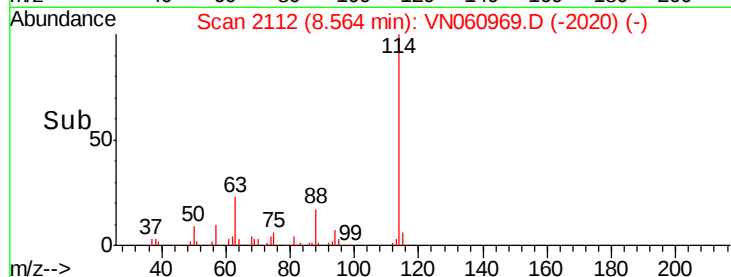
88 17.1 0.0 33.0



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: 49.549 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

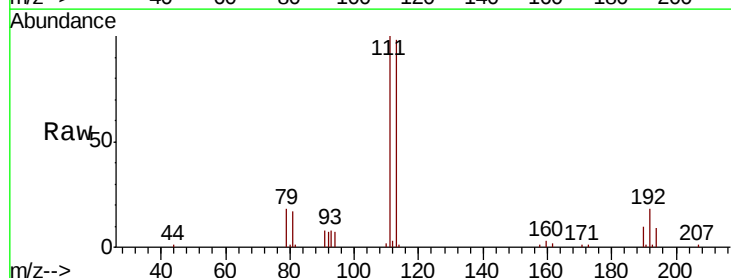
Tgt Ion:113 Resp: 72901

Ion Ratio Lower Upper

113 100

111 102.5 82.9 124.3

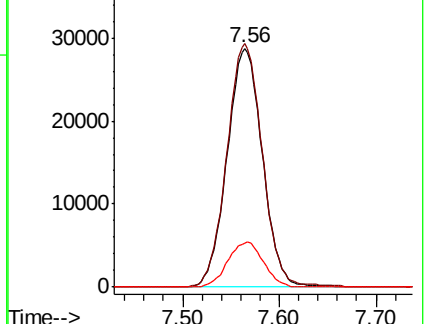
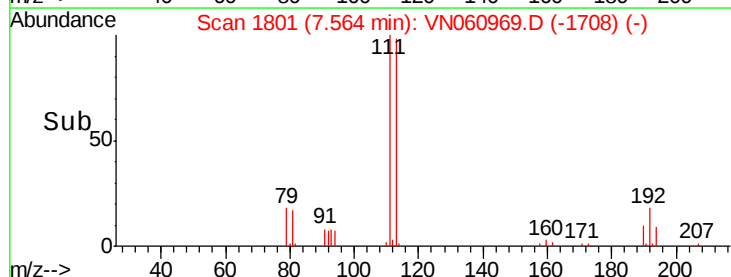
192 18.9 15.8 23.8

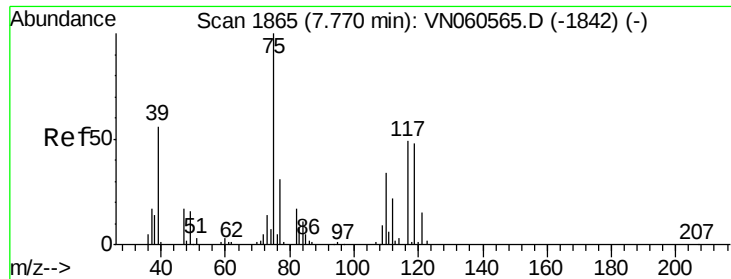


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

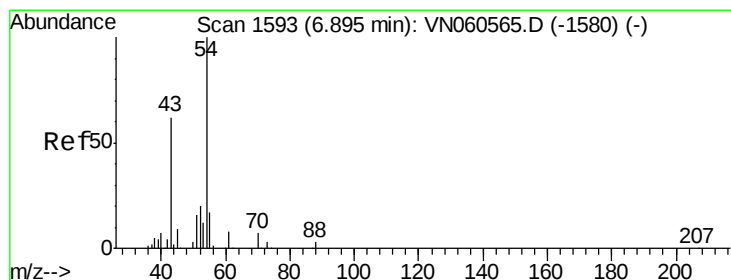
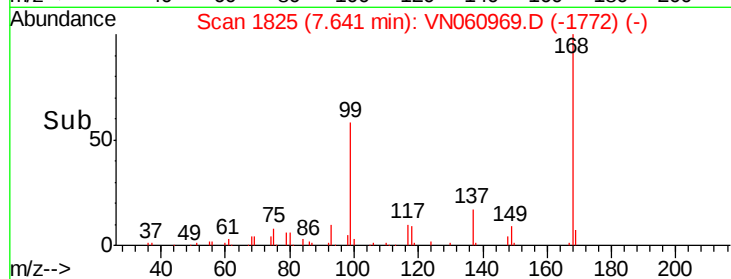
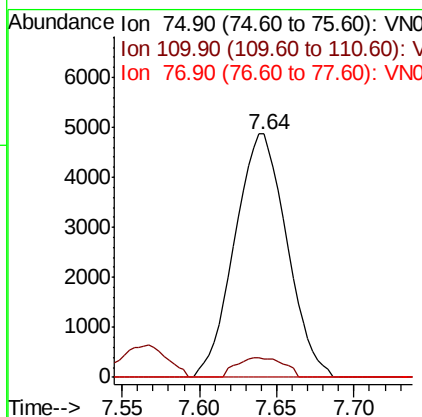
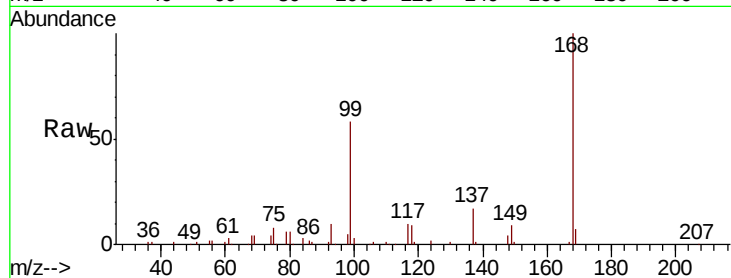




#36
 1,1-Dichloropropene
 Concen: 4.841 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060969.D
 Acq: 15 Apr 2020 18:08

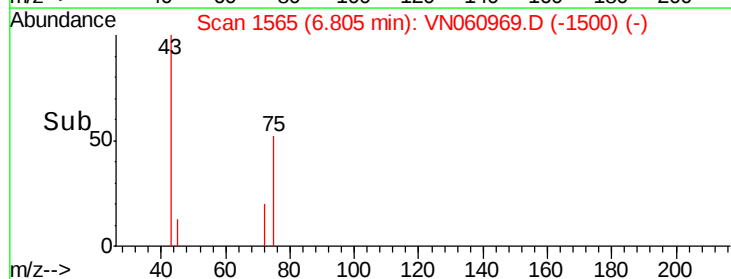
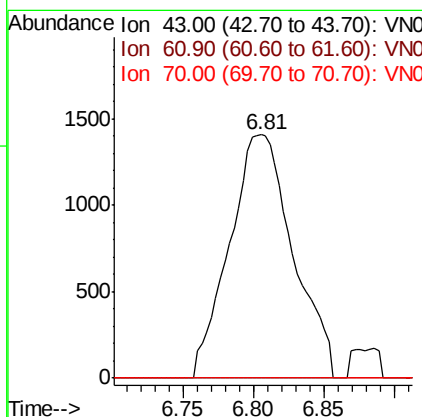
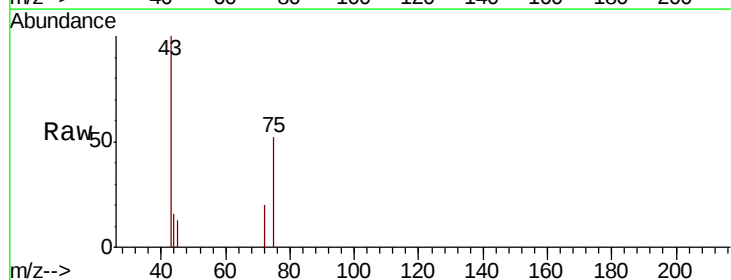
Instrument :
 MSVOA_N
 ClientSampled :

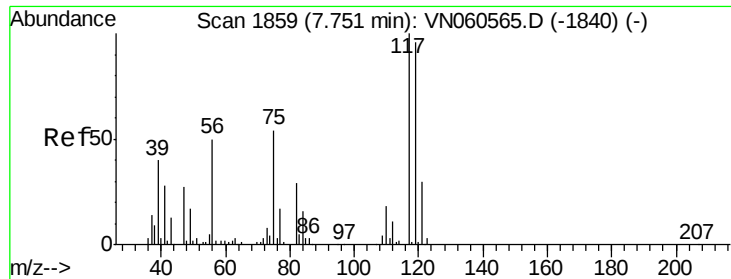
Tot Ion: 75 Resp: 11407
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 1.743 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.09 min
 Lab File: VN060969.D
 Acq: 15 Apr 2020 18:08

Tgt Ion: 43 Resp: 4437
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.664 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampled :

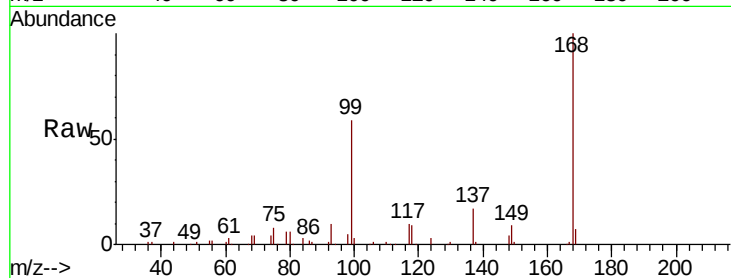
Tot Ion:117 Resp: 14073

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

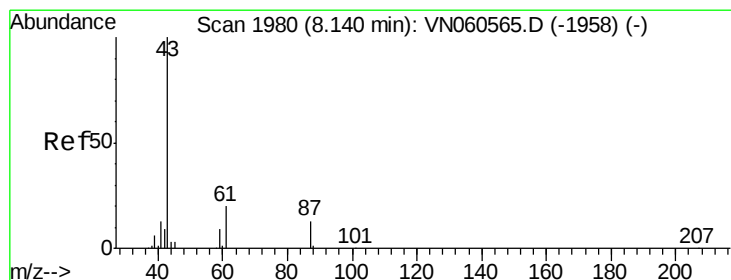
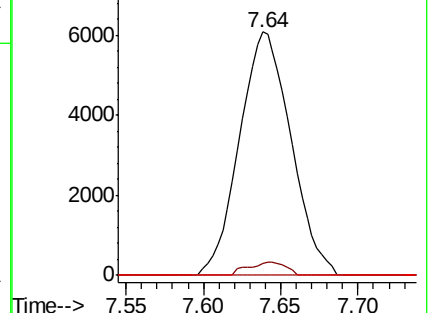
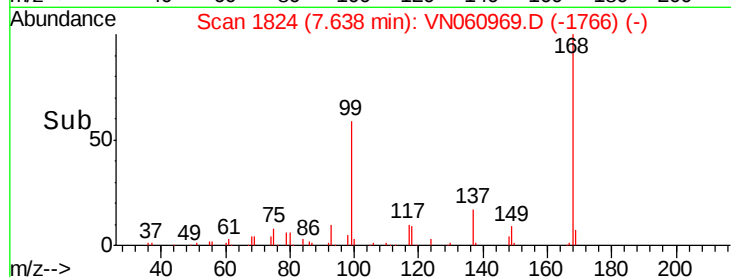
121 0.0 23.7 35.5#



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: 11.421 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

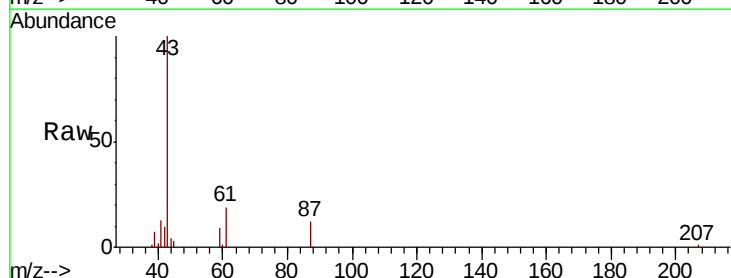
Tgt Ion: 43 Resp: 47951

Ion Ratio Lower Upper

43 100

61 18.8 20.7 31.1#

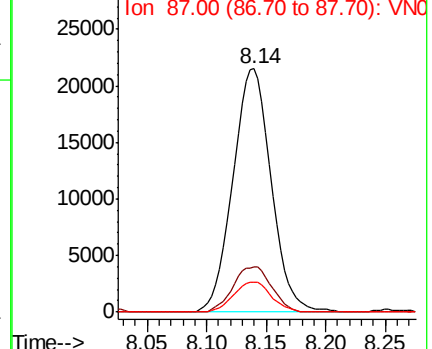
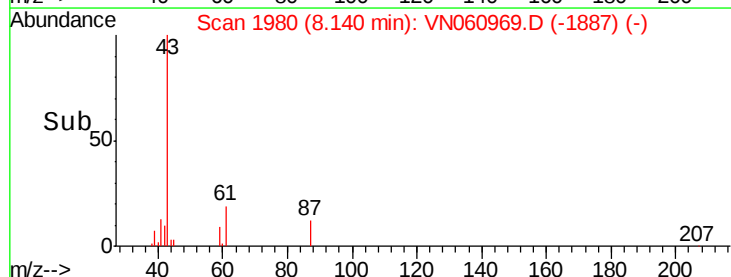
87 12.1 9.8 14.8

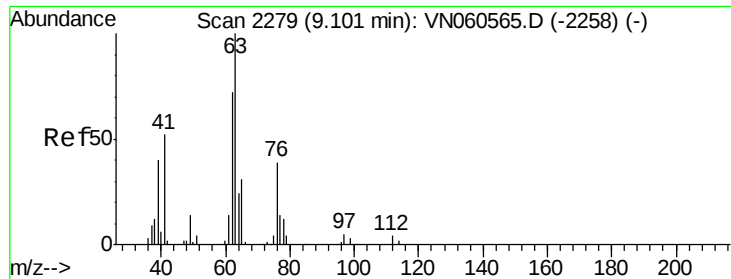


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.376 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

Instrument :

MSVOA_N

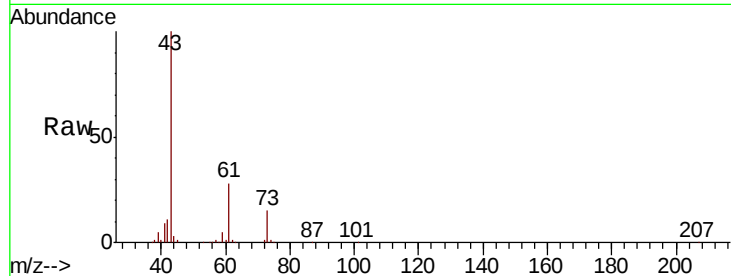
ClientSampled :

Tot Ion: 63 Resp: 705

Ion Ratio Lower Upper

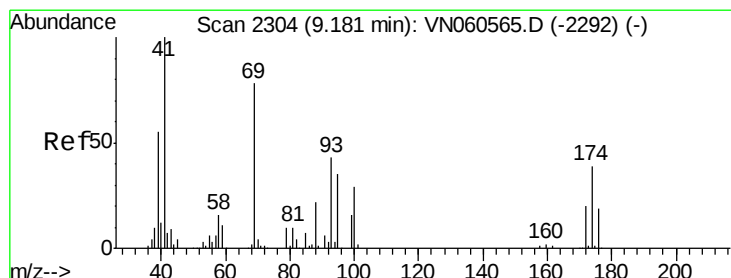
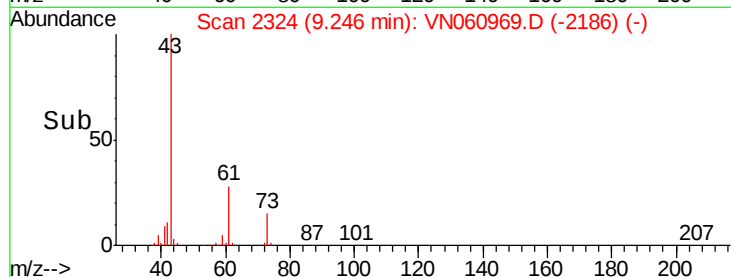
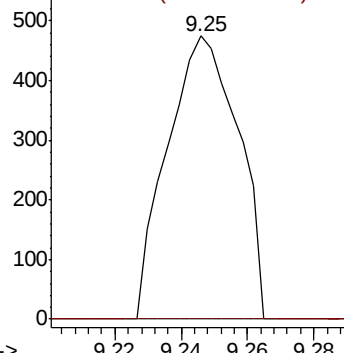
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.403 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

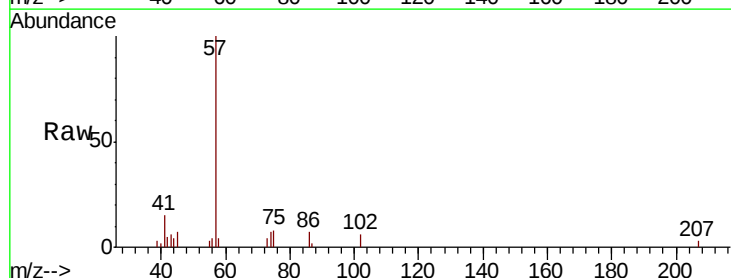
Tgt Ion: 41 Resp: 2622

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

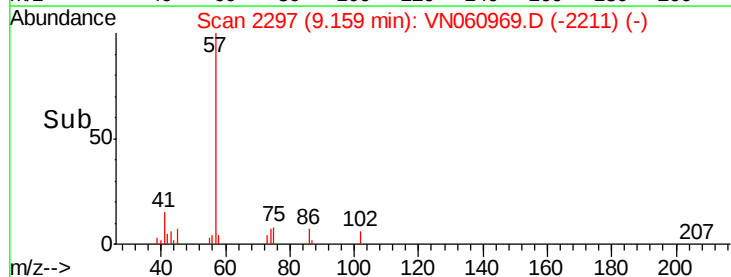
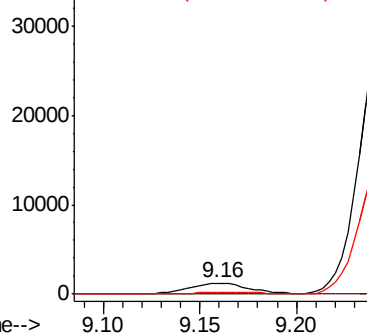
39 0.0 44.0 66.0#

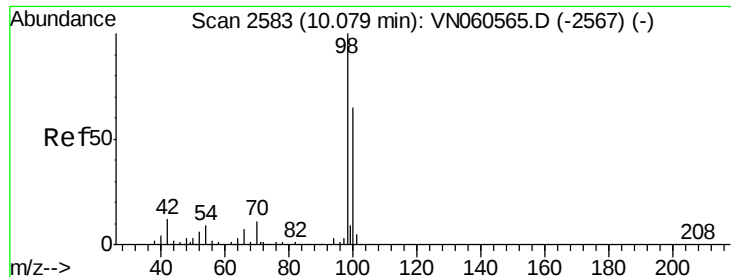


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

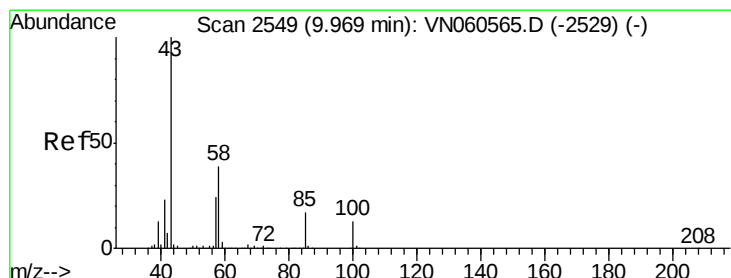
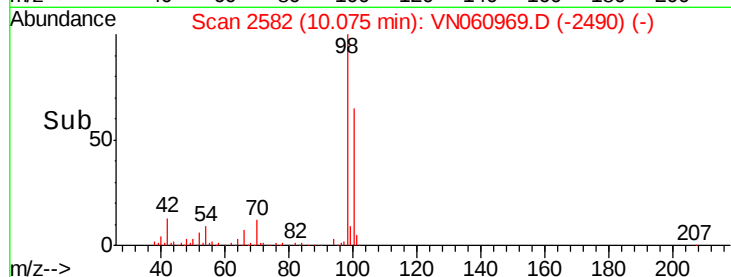
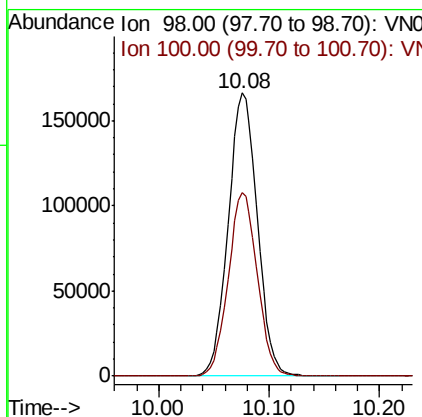
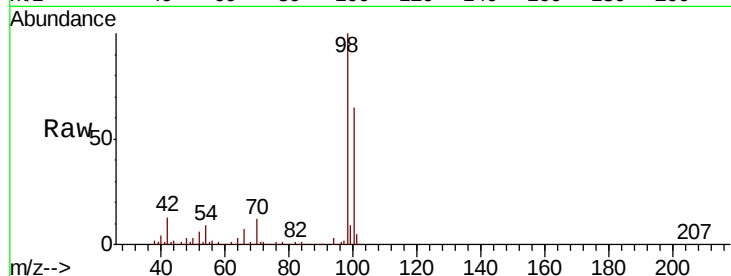




#50
Toluene-d8
Concen: 50.693 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

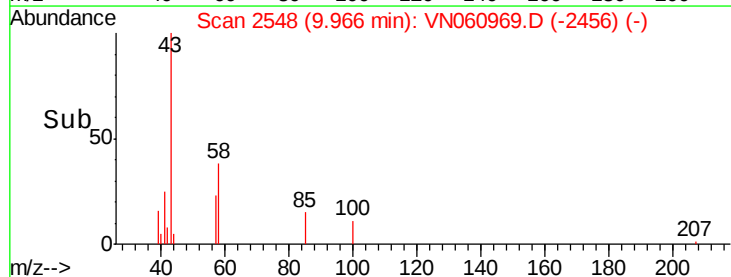
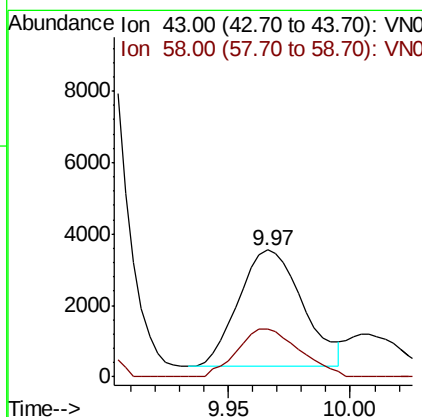
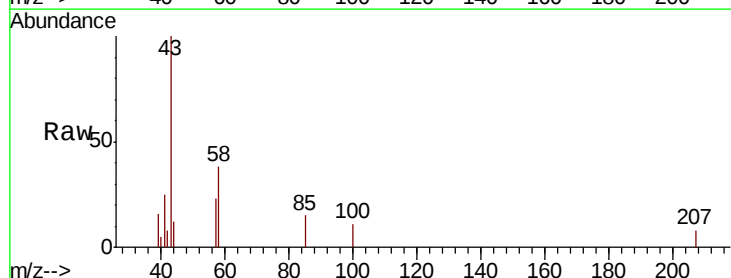
Instrument :
MSVOA_N
ClientSampled :

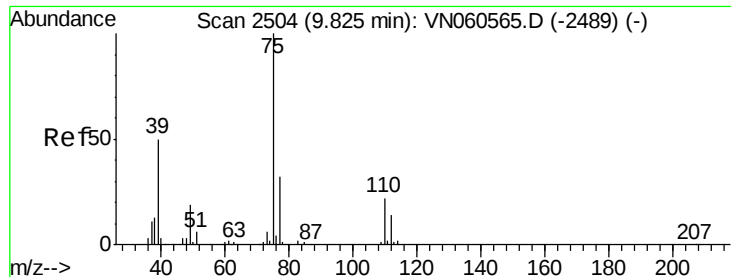
Tot Ion: 98 Resp: 304646
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 2.502 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

Tgt Ion: 43 Resp: 5977
Ion Ratio Lower Upper
43 100
58 40.0 30.8 46.2



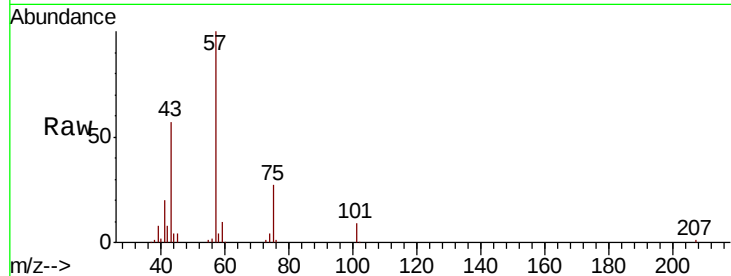


#54

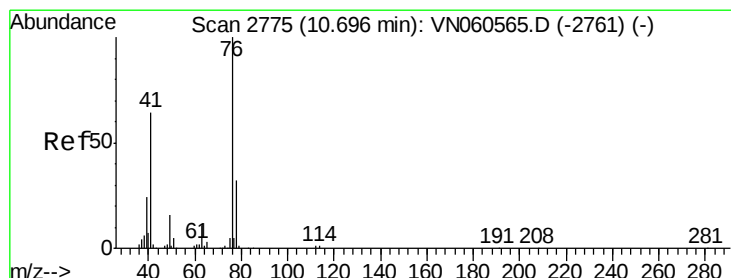
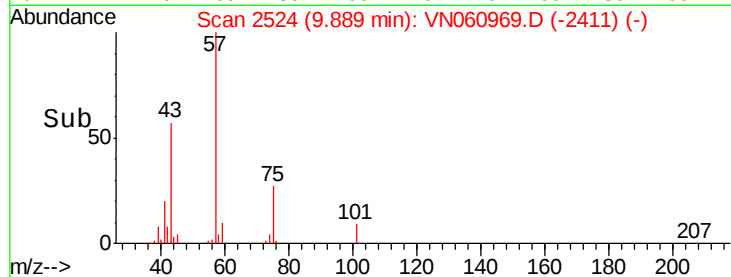
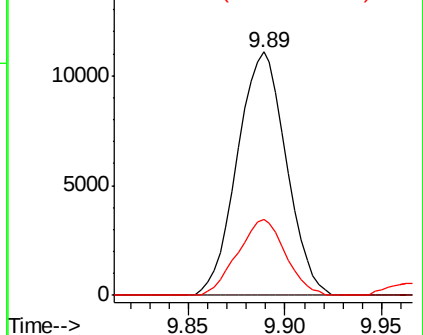
cis-1,3-Dichloropropene
 Concen: 6.552 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060969.D
 Acq: 15 Apr 2020 18:08

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	19468
Ion Ratio	Lower	Upper	
75	100		
77	0.0	25.4	38.0#
39	31.1	40.2	60.4#



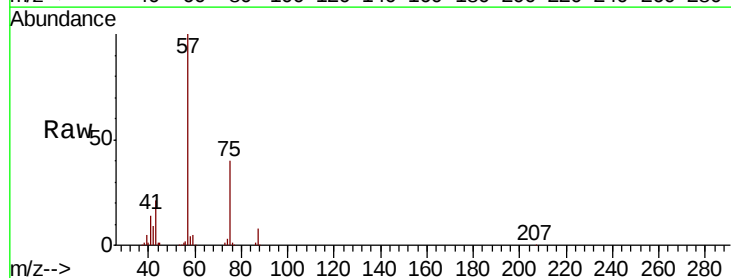
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



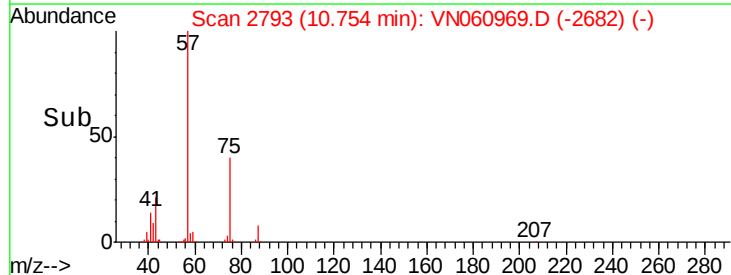
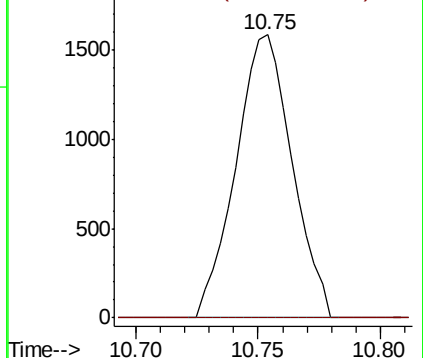
#57

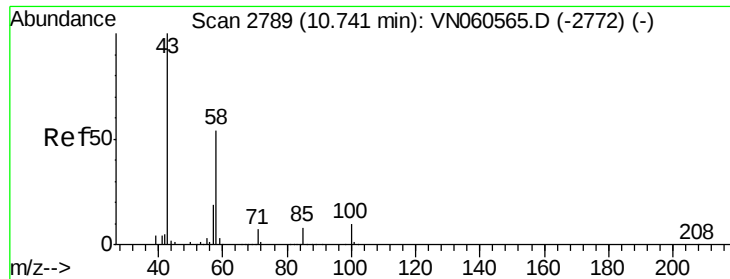
1,3-Dichloropropane
 Concen: 0.884 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060969.D
 Acq: 15 Apr 2020 18:08

Tgt Ion	76	Resp	2536
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

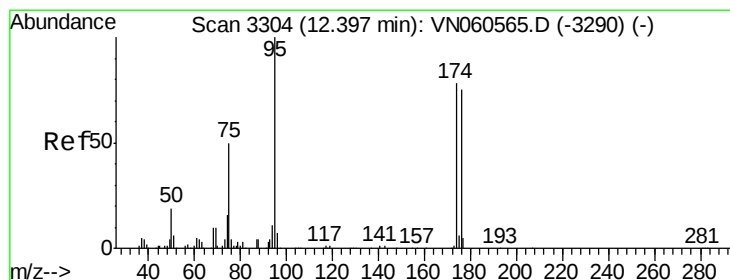
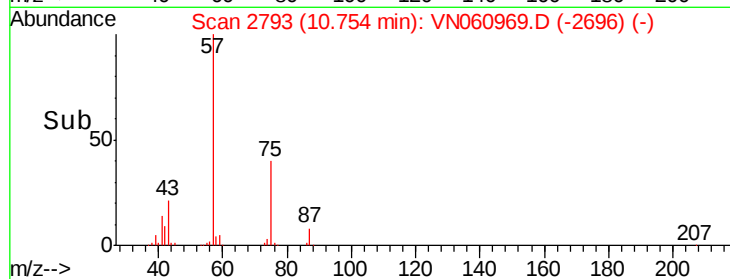
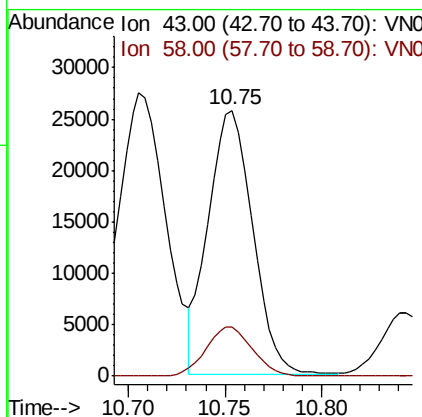
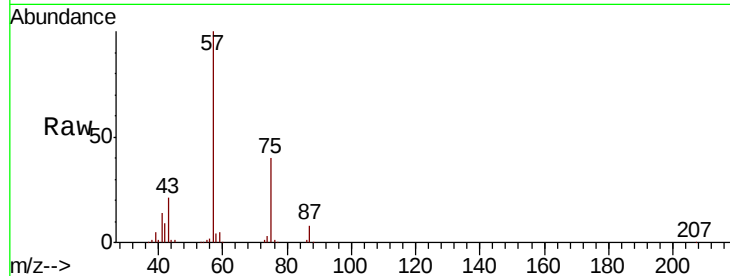




#59
2-Hexanone
Concen: 24.033 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

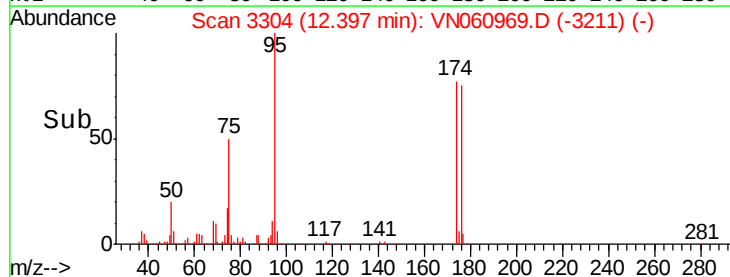
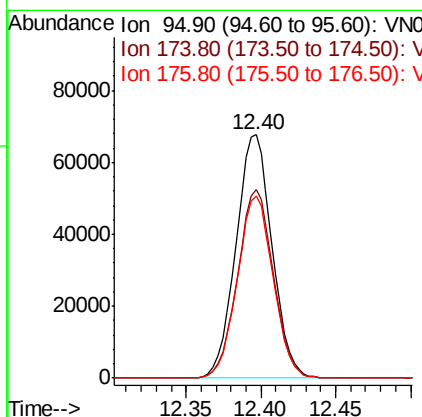
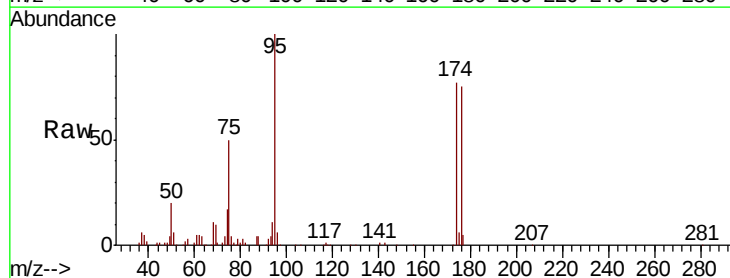
Instrument :
MSVOA_N
ClientSampled :

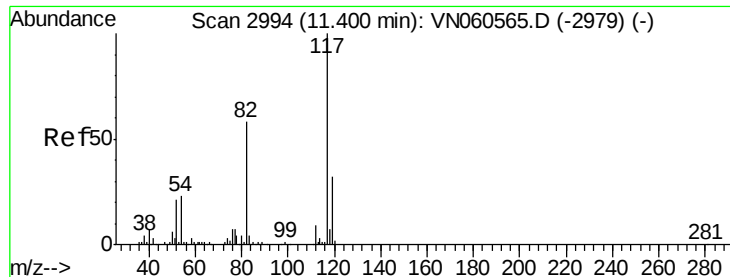
Tot Ion: 43 Resp: 41362
Ion Ratio Lower Upper
43 100
58 19.2 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.459 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

Tgt Ion: 95 Resp: 113334
Ion Ratio Lower Upper
95 100
174 76.7 0.0 157.6
176 74.3 0.0 150.6

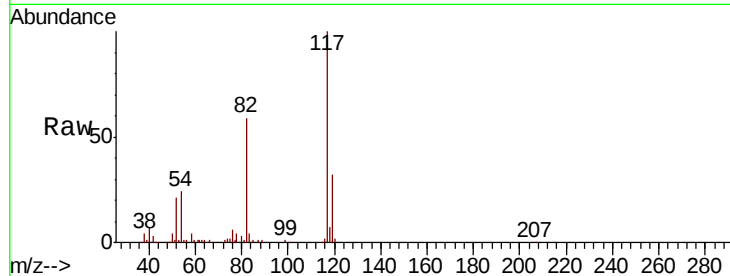




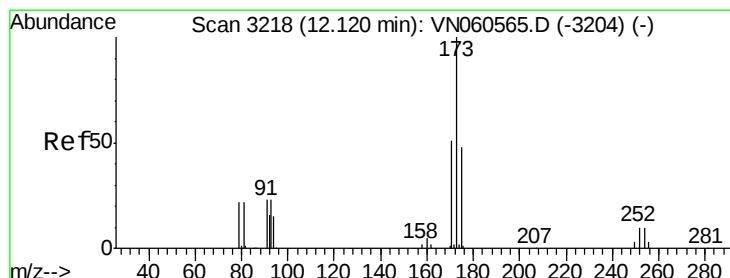
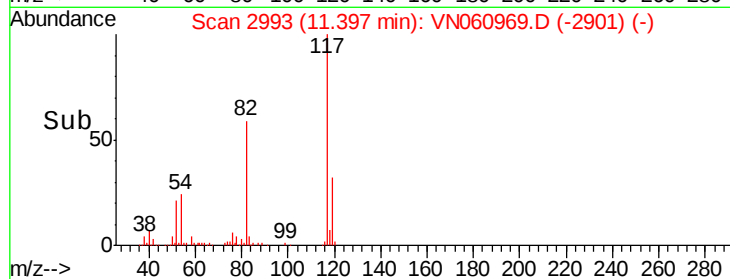
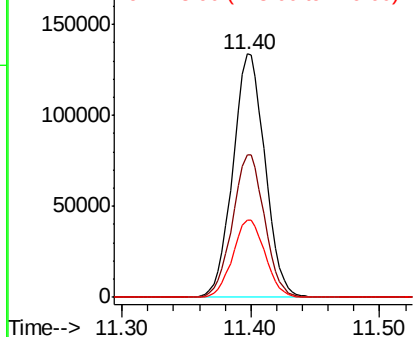
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 231121
Ion Ratio Lower Upper
117 100
82 58.6 46.7 70.1
119 31.9 25.5 38.3

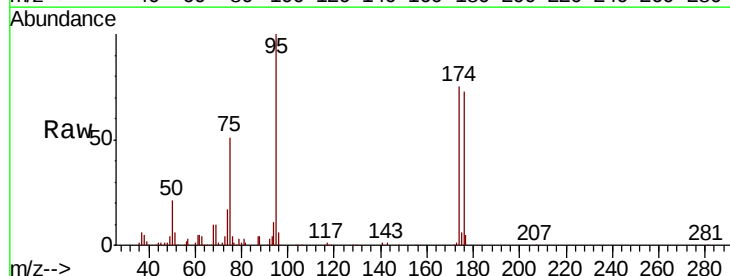


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

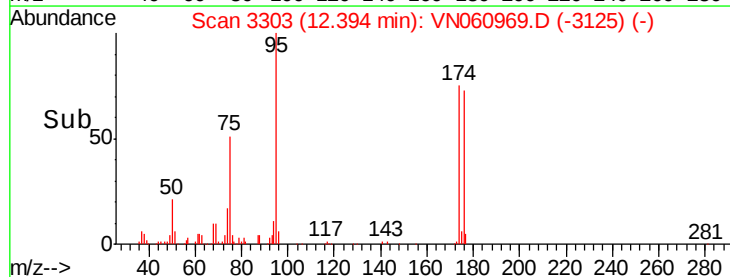
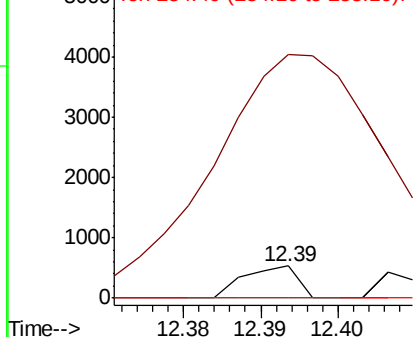


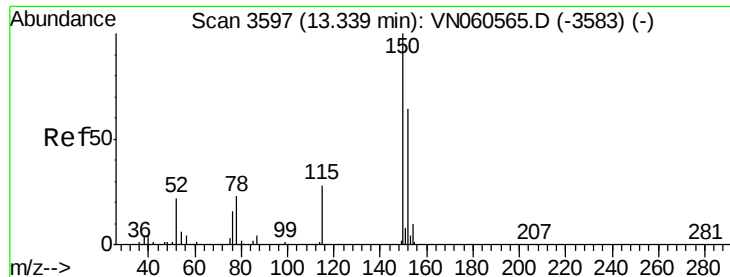
#71
Bromoform
Concen: 1.861 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060969.D
Acq: 15 Apr 2020 18:08

Tgt Ion:173 Resp: 258
Ion Ratio Lower Upper
173 100
175 2229.5 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: VN060969.D

Acq: 15 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

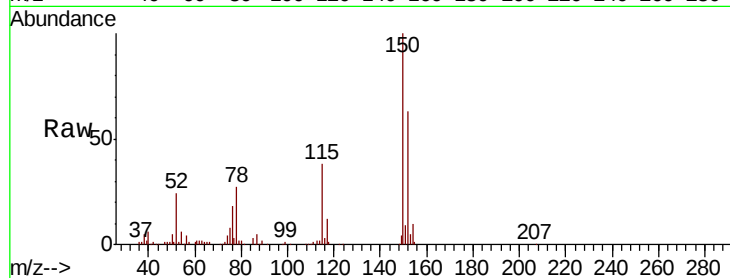
Tot Ion:152 Resp: 101495

Ion Ratio Lower Upper

152 100

115 61.5 30.2 90.6

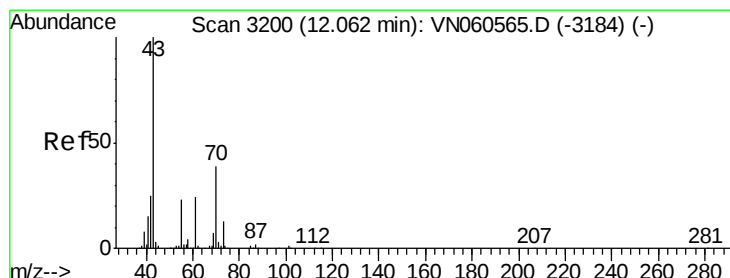
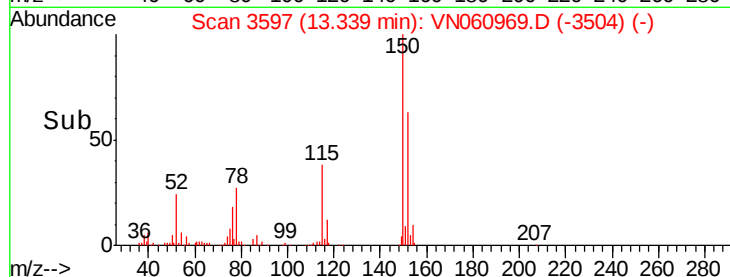
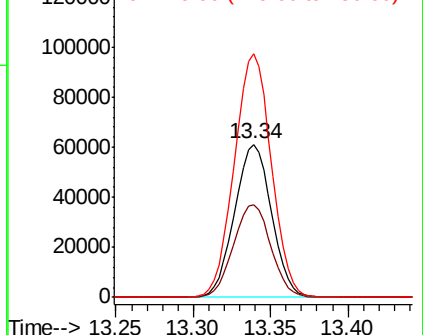
150 159.8 0.0 350.2



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: 0.677 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

Tgt Ion: 43 Resp: 2382

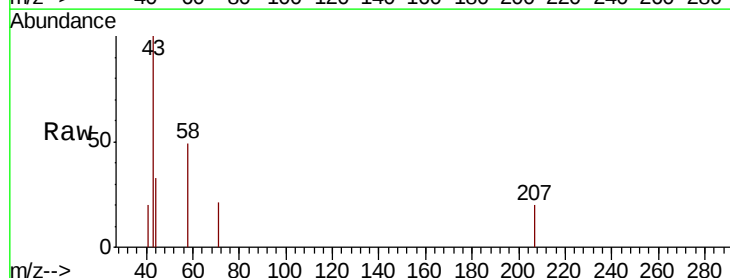
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

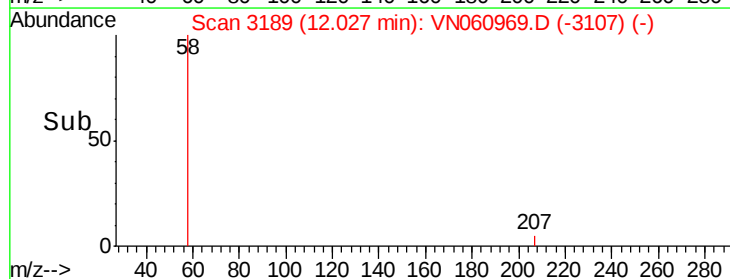
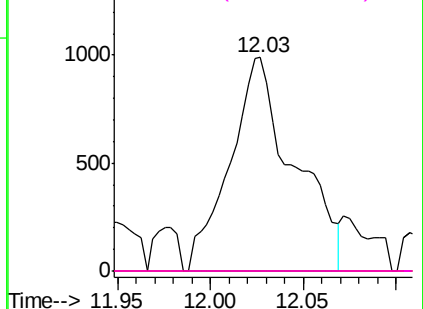


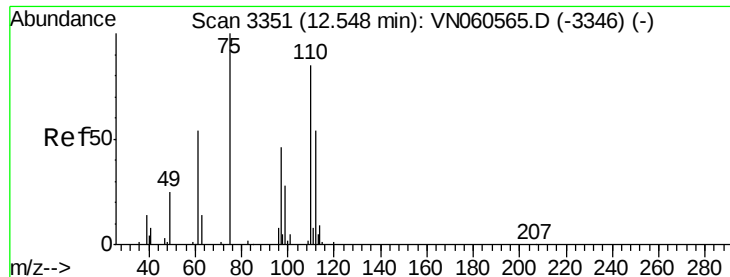
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.273 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

Instrument :

MSVOA_N

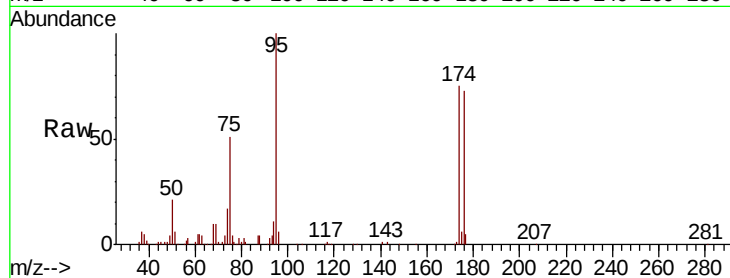
ClientSampleId :

Tot Ion: 75 Resp: 57540

Ion Ratio Lower Upper

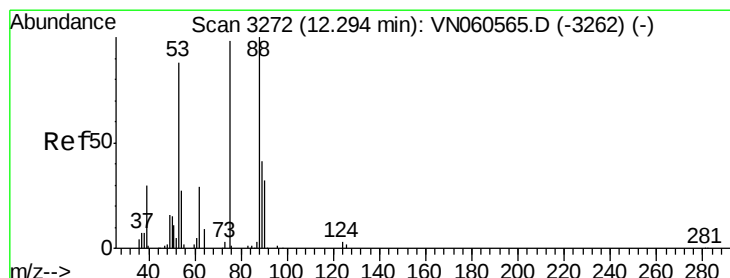
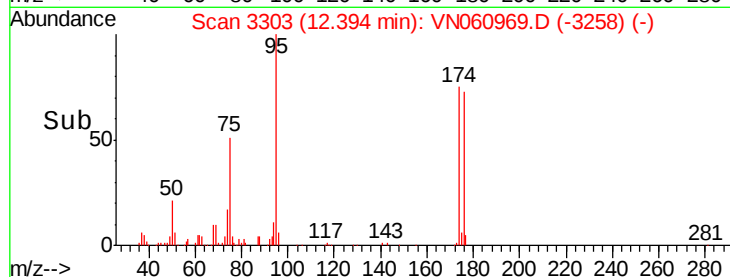
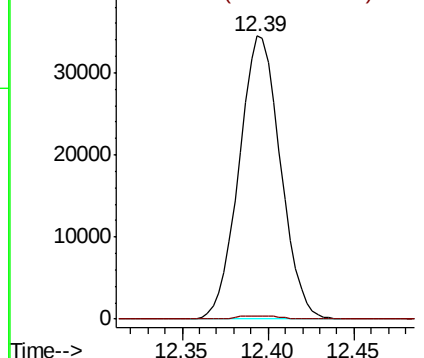
75 100

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: 67.478 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060969.D

Acq: 15 Apr 2020 18:08

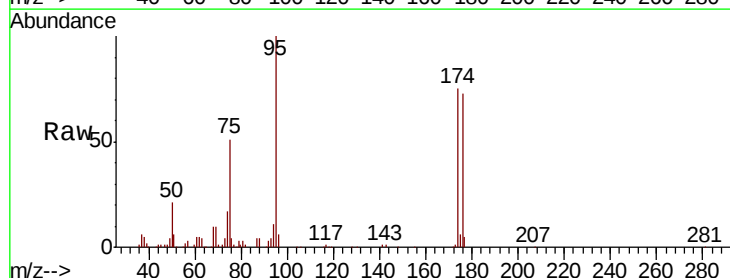
Tgt Ion: 75 Resp: 57540

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

