

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN065001.D
 Acq On : 9 Dec 2020 5:03
 Operator : JC/MD
 Sample : L4970-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-D-BOTTOM

Quant Time: Dec 09 08:00:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	168750	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	322207	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	341427	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	138655	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	108543	55.33	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	110.66%
35) Dibromofluoromethane	7.55	113	102630	53.23	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	106.46%
50) Toluene-d8	10.06	98	411914	52.29	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	104.58%
62) 4-Bromofluorobenzene	12.37	95	150490	53.38	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	106.76%

Target Compounds

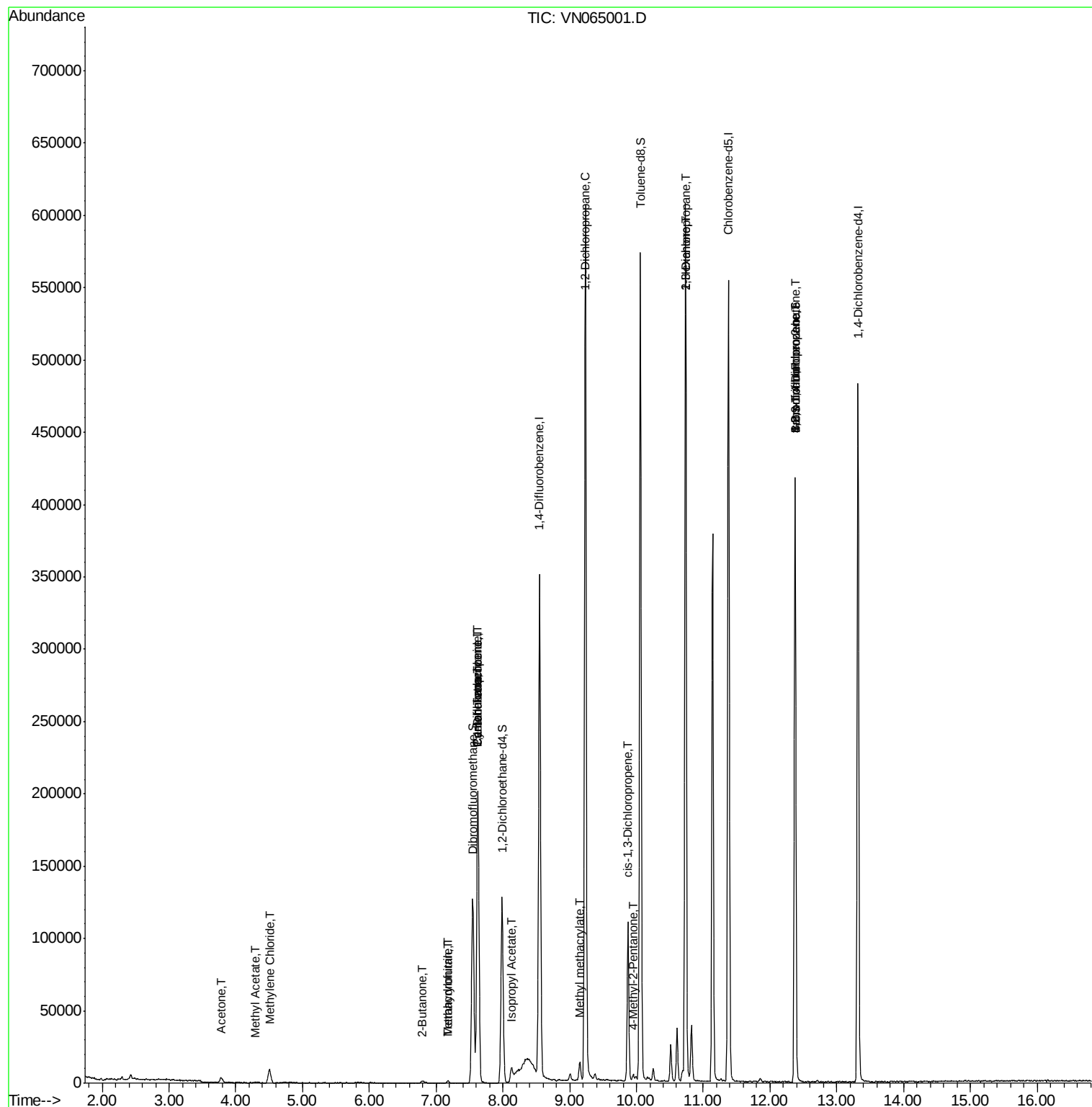
					Qvalue	
16) Acetone	3.78	43	6916	10.724	ug/l	95
18) Methyl Acetate	4.28	43	1026	0.529	ug/l #	50
20) Methylene Chloride	4.50	84	7481	3.702	ug/l	98
25) 2-Butanone	6.79	43	1269	1.214	ug/l	93
29) Tetrahydrofuran	7.17	42	814	1.128	ug/l #	59
31) Cyclohexane	7.62	56	2936	1.074	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	11559	3.870	ug/l #	49
38) Carbon Tetrachloride	7.63	117	15871	5.107	ug/l #	17
41) Methacrylonitrile	7.17	41	425	0.320	ug/l #	19
43) Isopropyl Acetate	8.13	43	13497	2.916	ug/l	97
45) 1,2-Dichloropropane	9.24	63	695	0.293	ug/l #	43
48) Methyl methacrylate	9.14	41	3336	1.508	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	2861	1.029	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	20437	5.373	ug/l #	66
57) 1,3-Dichloropropane	10.73	76	6330	1.656	ug/l #	42
59) 2-Hexanone	10.74	43	80828	40.412	ug/l #	52
71) Bromoform	12.38	173	1165	0.541	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	70785	23.705	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	70785	64.970	ug/l #	15

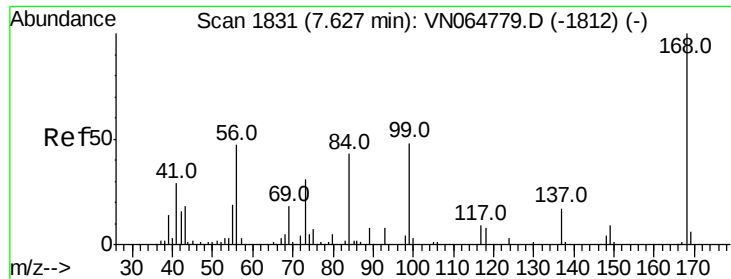
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

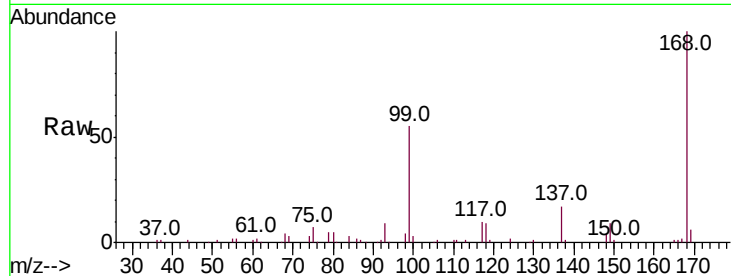
4S2-D-BOTTOM

Tot Ion:168 Resp: 168750

Ion Ratio Lower Upper

168 100

99 54.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

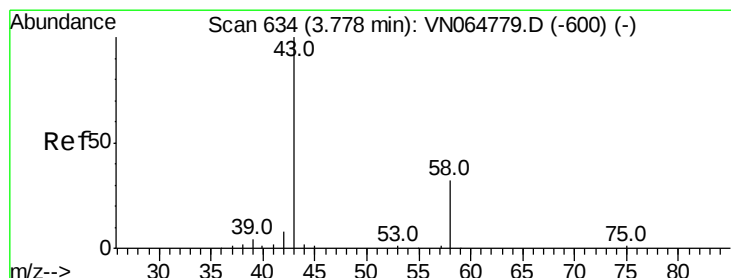
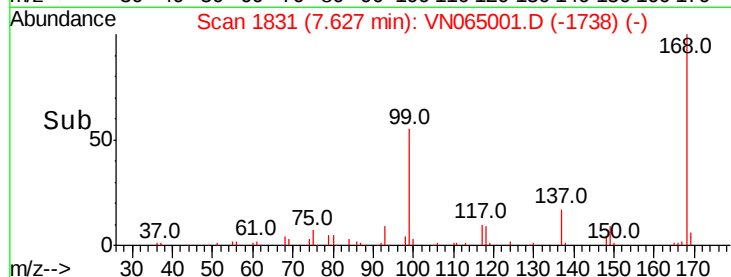
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 10.724 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN065001.D

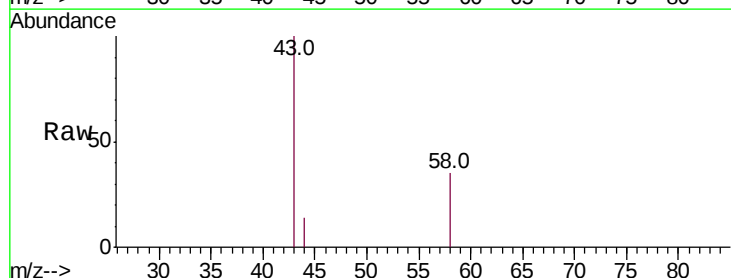
Acq: 9 Dec 2020 5:03

Tgt Ion: 43 Resp: 6916

Ion Ratio Lower Upper

43 100

58 35.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2500

2000

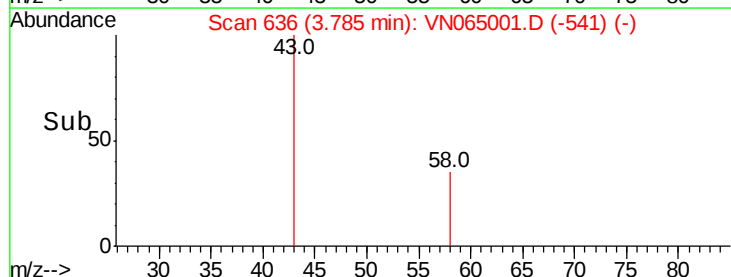
1500

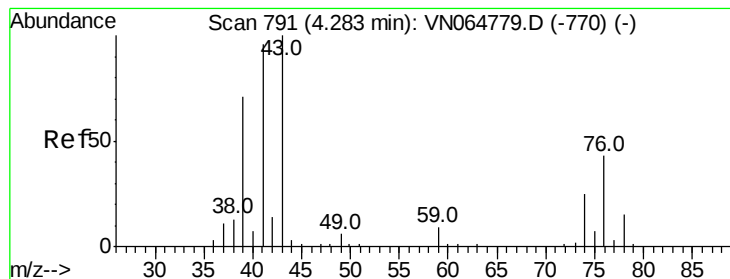
1000

500

0

Time--> 3.70 3.75 3.80 3.85





#18

Methyl Acetate

Concen: 0.529 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.01 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

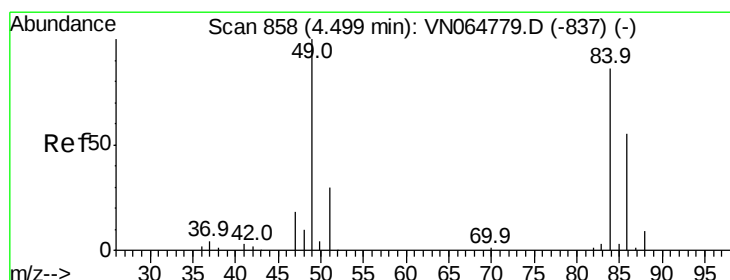
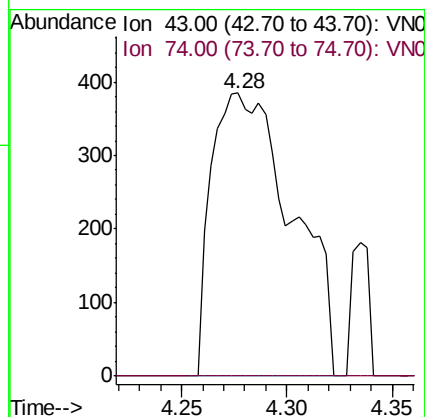
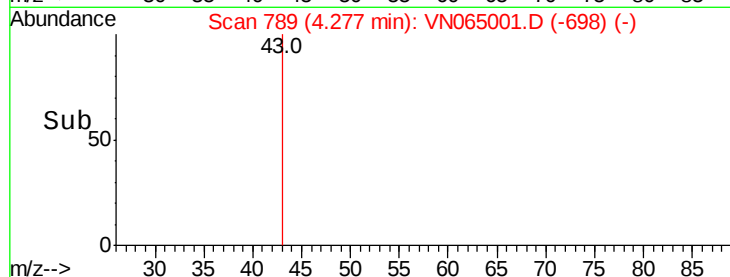
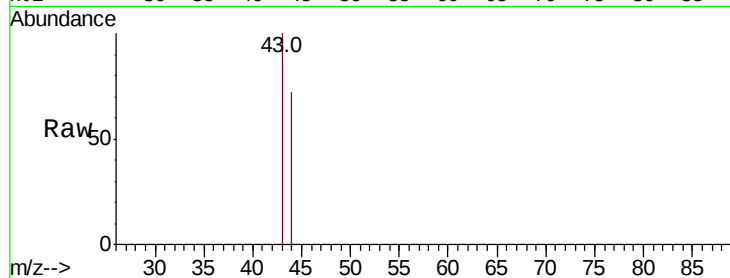
4S2-D-BOTTOM

Tot Ion: 43 Resp: 1026

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



#20

Methylene Chloride

Concen: 3.702 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Tgt Ion: 84 Resp: 7481

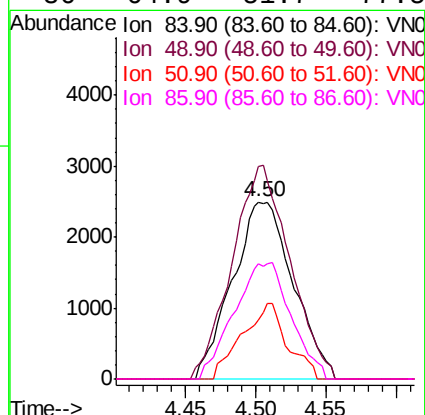
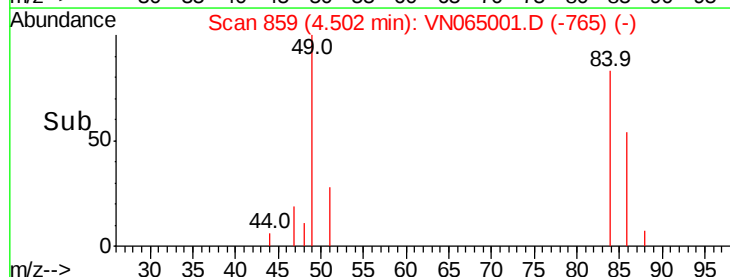
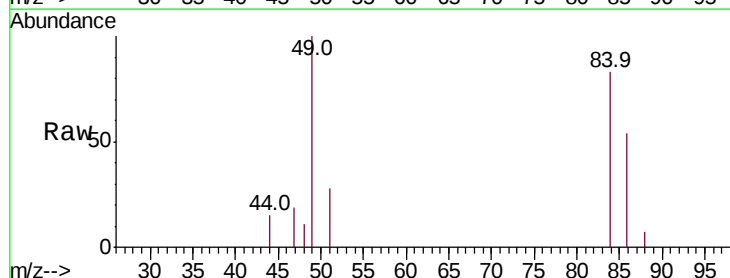
Ion Ratio Lower Upper

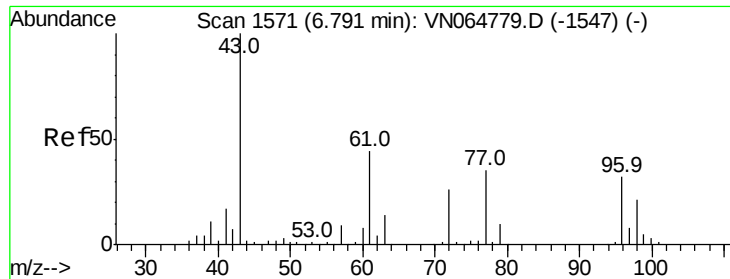
84 100

49 119.9 93.4 140.0

51 33.2 28.2 42.4

86 64.9 51.7 77.5





#25

2-Butanone

Concen: 1.214 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

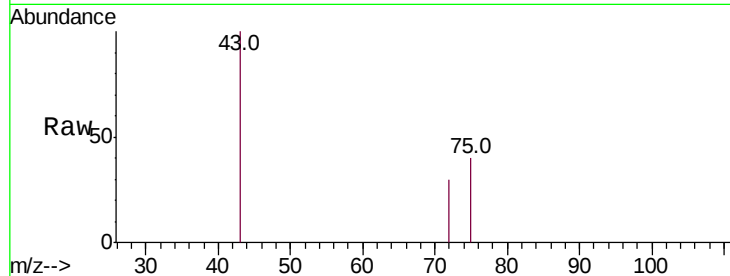
4S2-D-BOTTOM

Tot Ion: 43 Resp: 1269

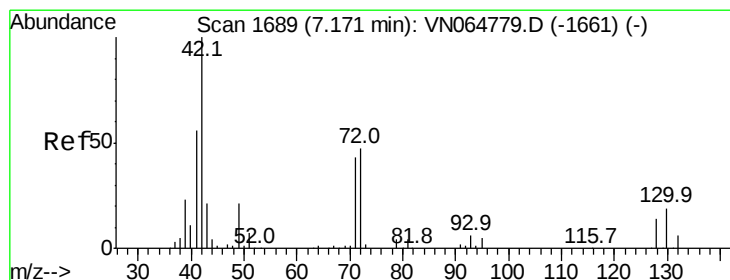
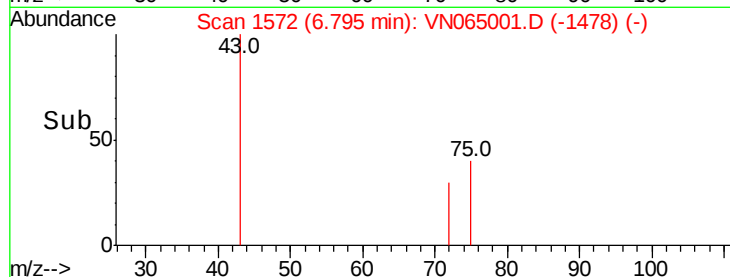
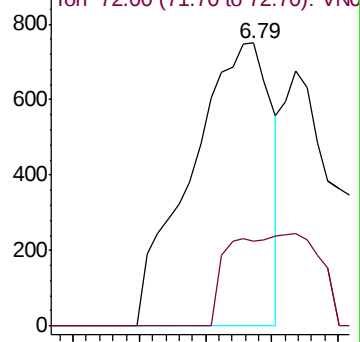
Ion Ratio Lower Upper

43 100

72 29.9 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-1547) (-)



#29

Tetrahydrofuran

Concen: 1.128 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

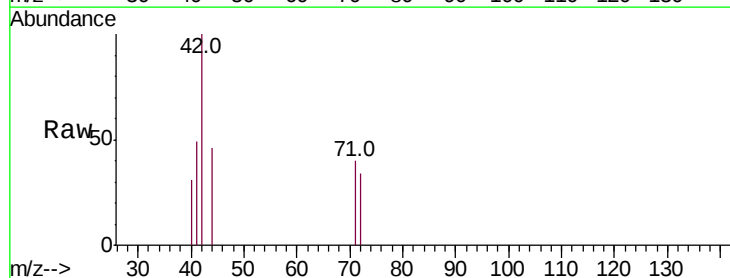
Tgt Ion: 42 Resp: 814

Ion Ratio Lower Upper

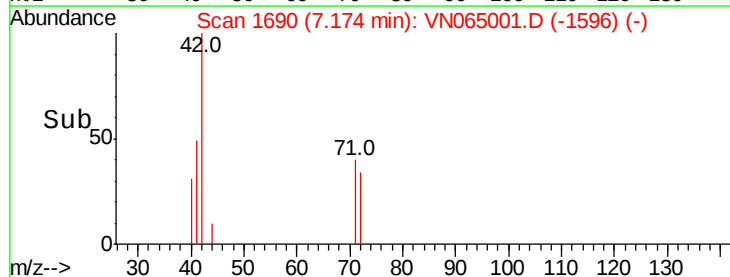
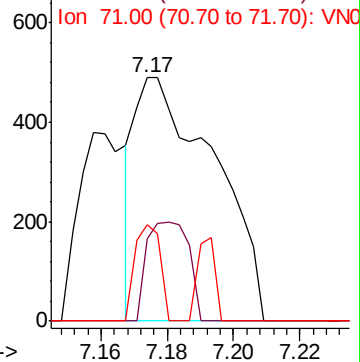
42 100

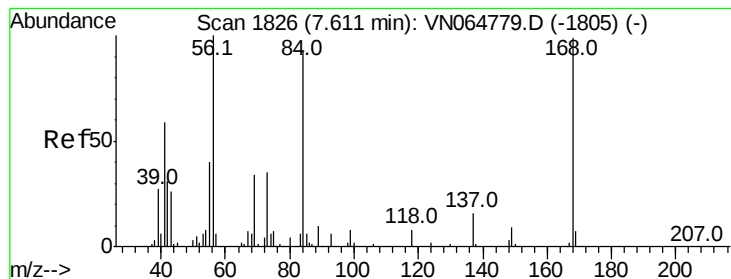
72 21.5 36.6 54.8#

71 12.7 33.6 50.4#



Abundance Ion 42.00 (41.70 to 42.70): VN064779.D (-1661) (-)





#31

Cyclohexane

Concen: 1.074 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

4S2-D-BOTTOM

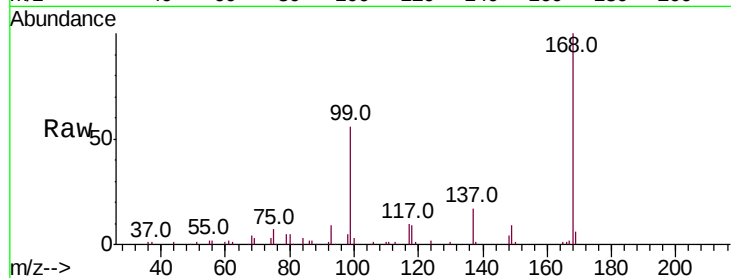
Tot Ion: 56 Resp: 2936

Ion Ratio Lower Upper

56 100

69 159.4 27.5 41.3#

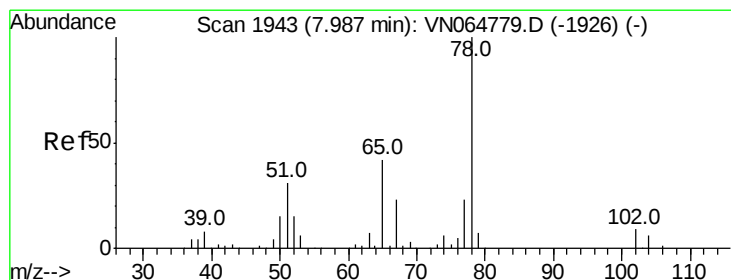
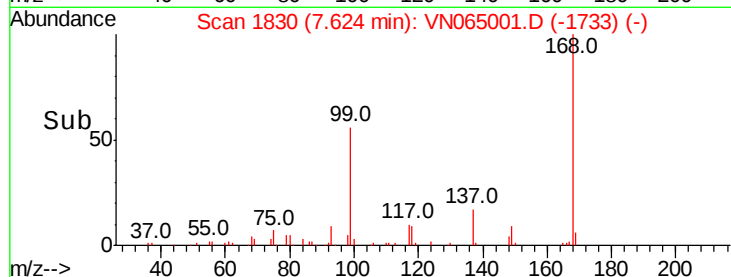
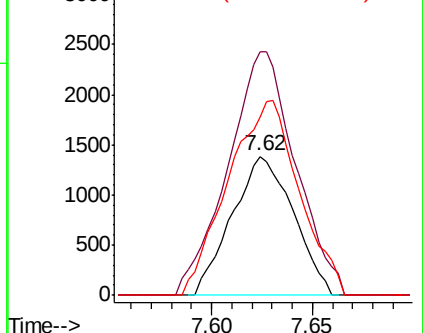
84 117.4 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 55.327 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065001.D

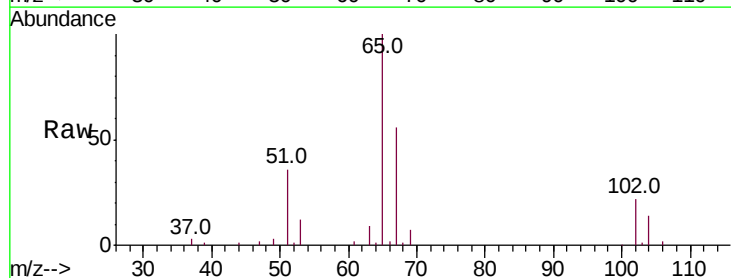
Acq: 9 Dec 2020 5:03

Tgt Ion: 65 Resp: 108543

Ion Ratio Lower Upper

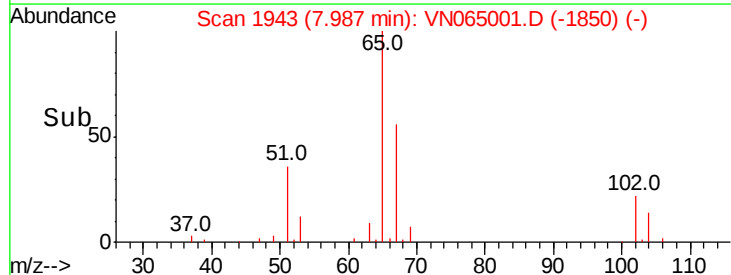
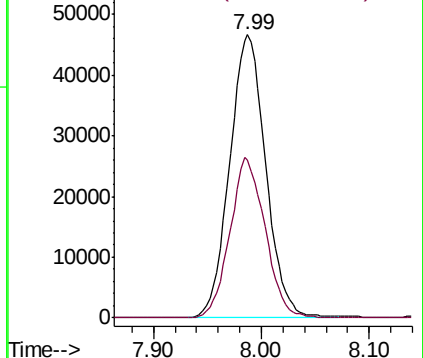
65 100

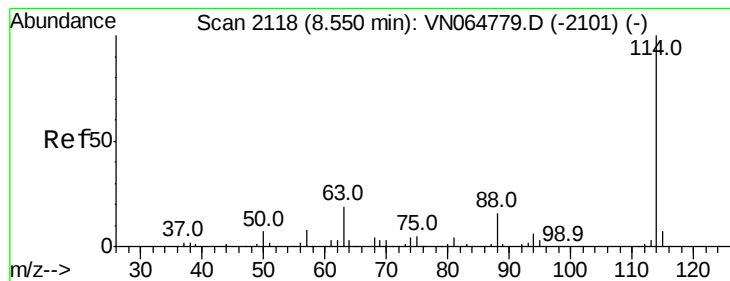
67 55.1 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

4S2-D-BOTTOM

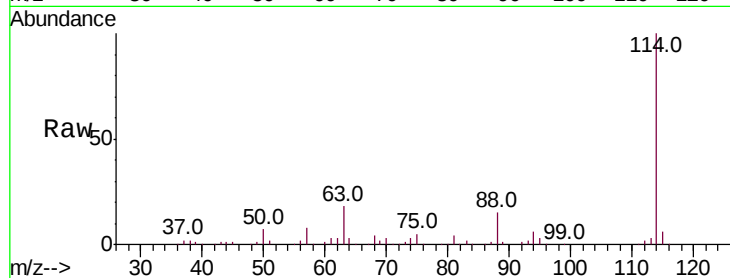
Tot Ion:114 Resp: 322207

Ion Ratio Lower Upper

114 100

63 18.5 0.0 38.6

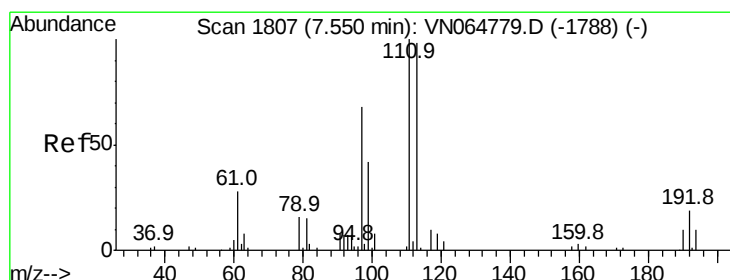
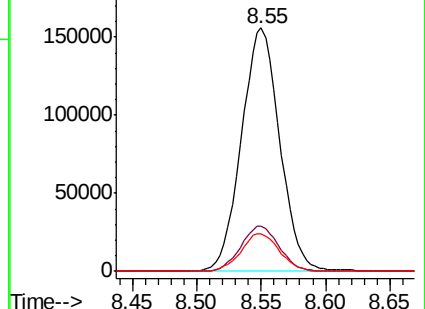
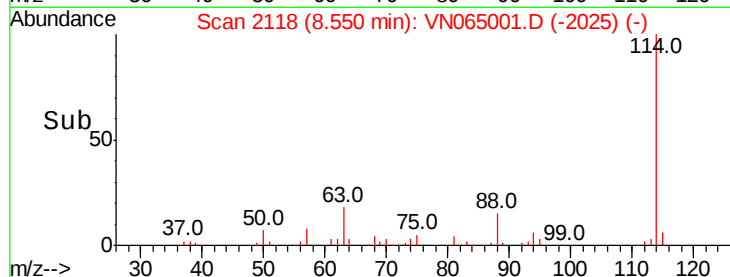
88 15.3 0.0 32.6



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: 53.232 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

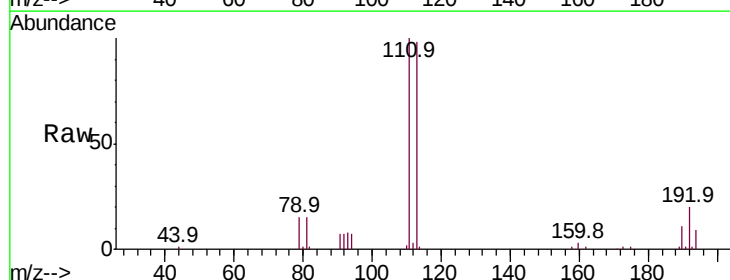
Tgt Ion:113 Resp: 102630

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

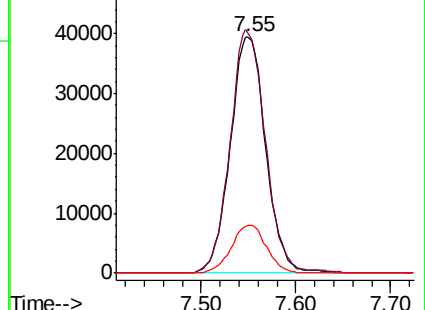
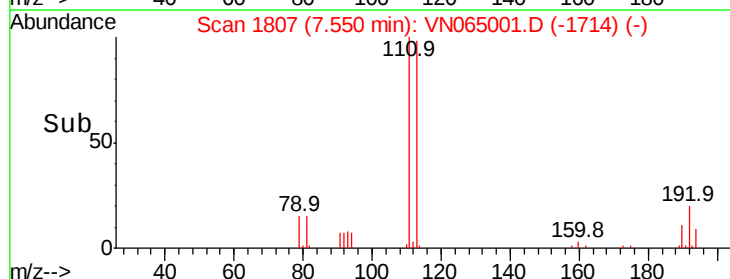
192 19.9 16.2 24.2

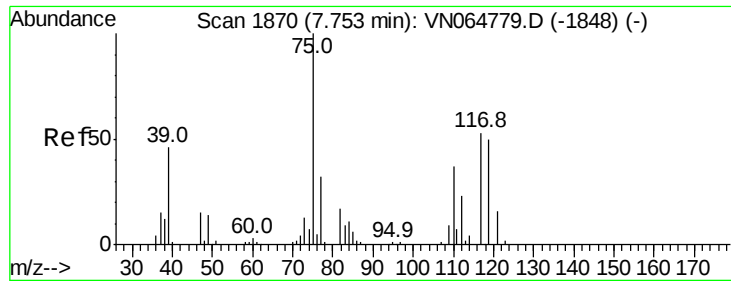


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.870 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

4S2-D-BOTTOM

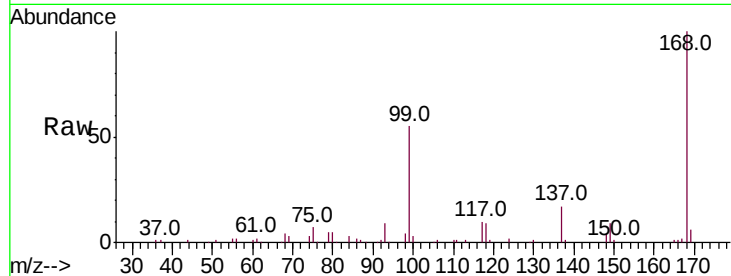
Tot Ion: 75 Resp: 11559

Ion Ratio Lower Upper

75 100

110 8.8 17.8 53.3#

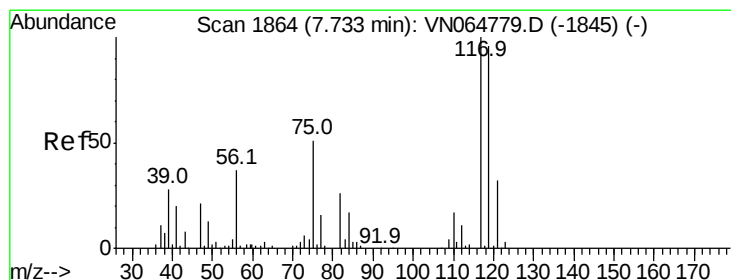
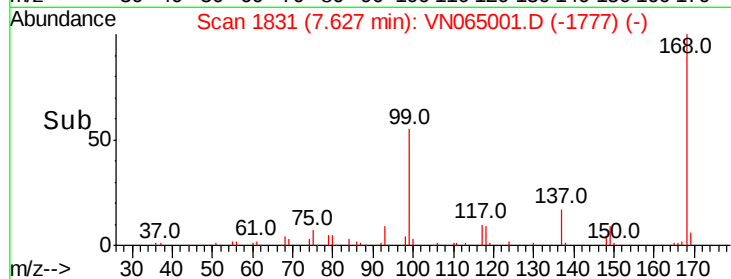
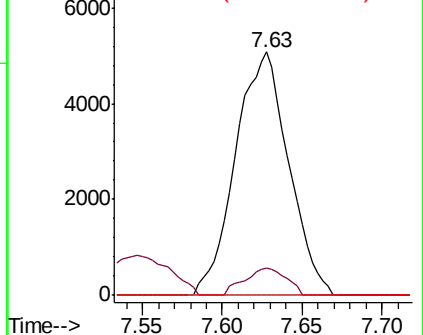
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 5.107 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

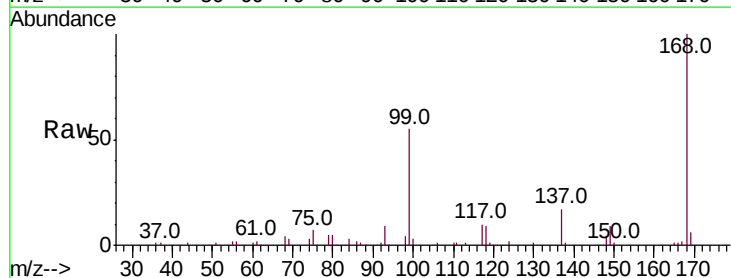
Tgt Ion: 117 Resp: 15871

Ion Ratio Lower Upper

117 100

119 6.4 76.7 115.1#

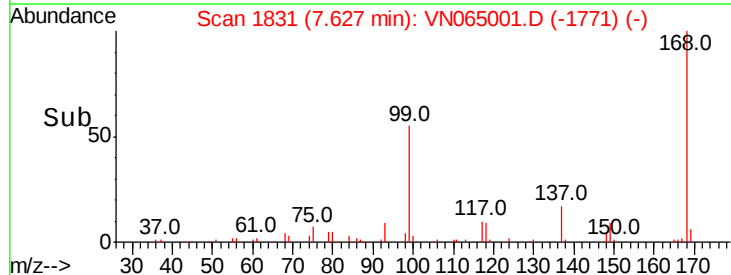
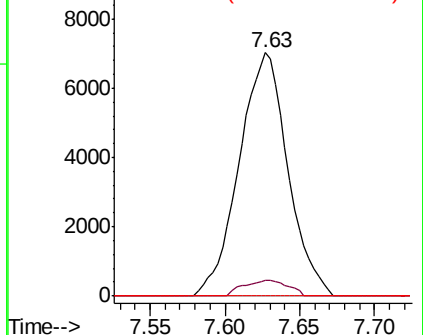
121 0.0 25.4 38.2#

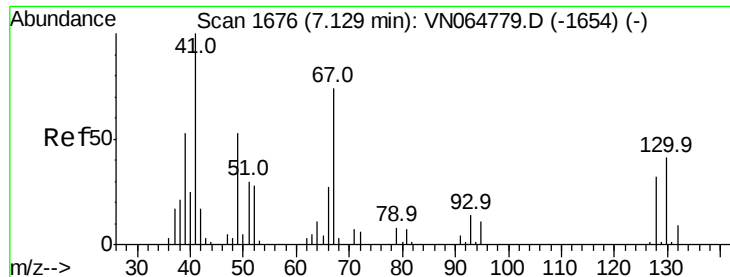


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

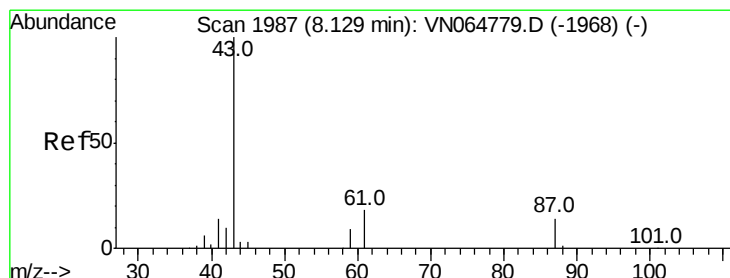
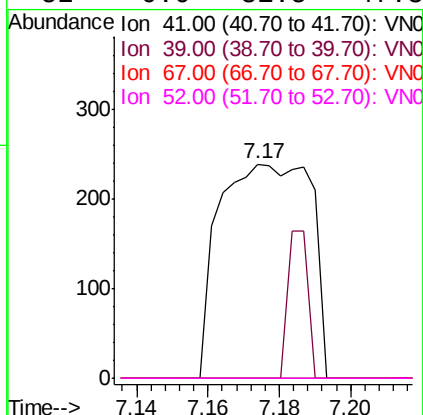
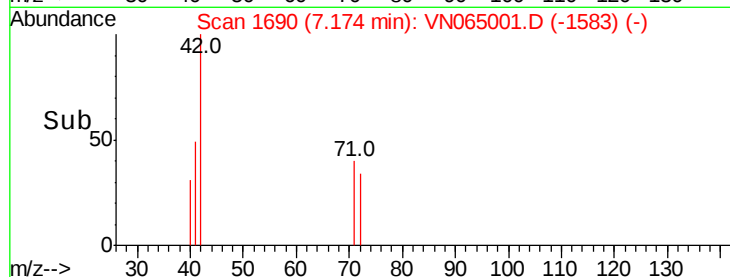
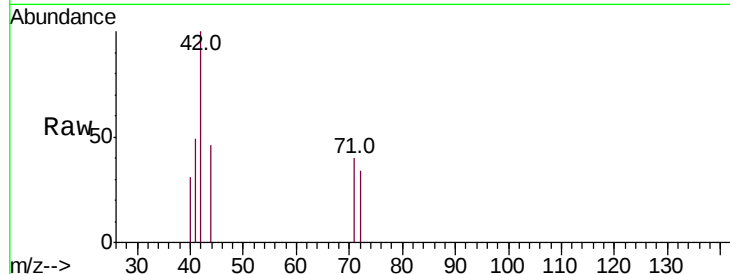




#41
Methacrylonitrile
Concen: 0.320 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.05 min
Lab File: VN065001.D
Acq: 9 Dec 2020 5:03

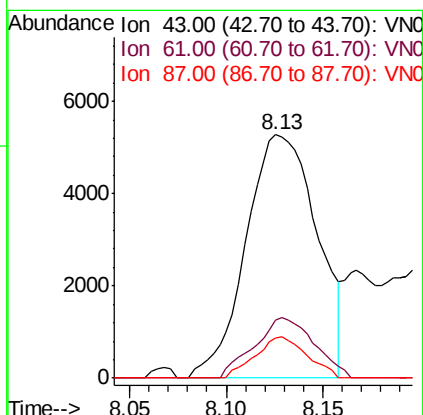
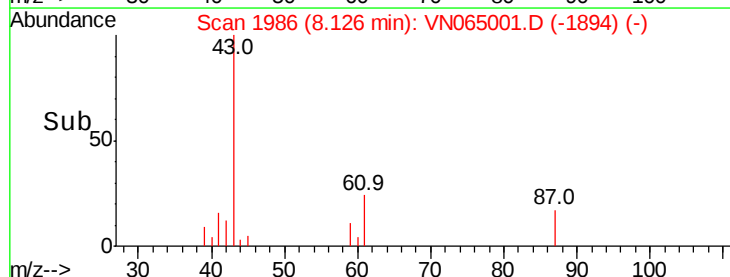
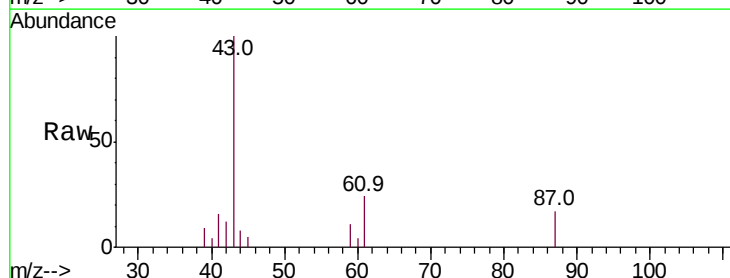
Instrument :
MSVOA_N
ClientSampleId :
4S2-D-BOTTOM

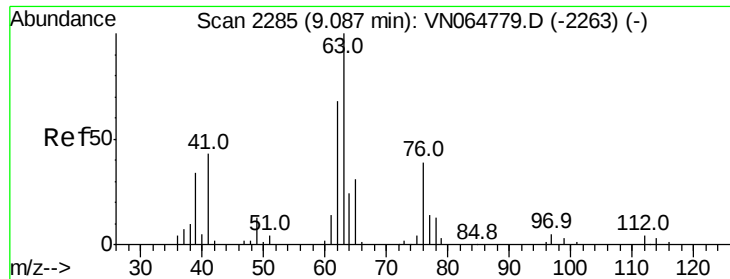
Tot Ion: 41 Resp: 425
Ion Ratio Lower Upper
41 100
39 14.8 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



#43
Isopropyl Acetate
Concen: 2.916 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN065001.D
Acq: 9 Dec 2020 5:03

Tgt Ion: 43 Resp: 13497
Ion Ratio Lower Upper
43 100
61 20.8 17.2 25.8
87 12.3 11.4 17.0

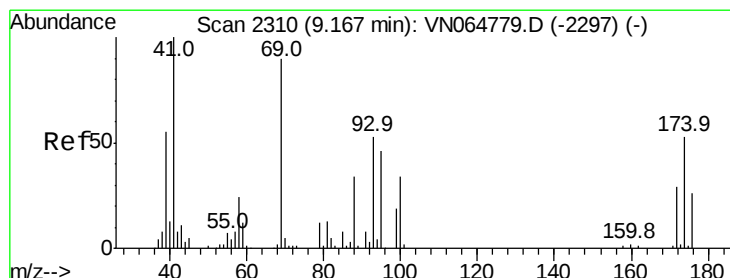
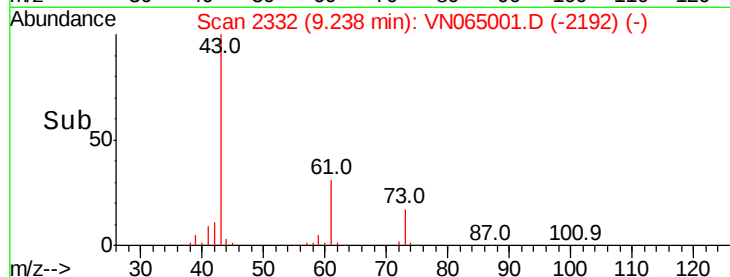
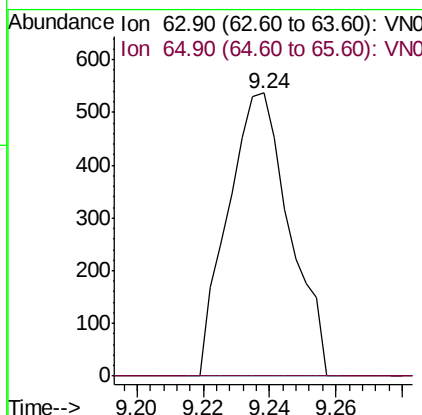
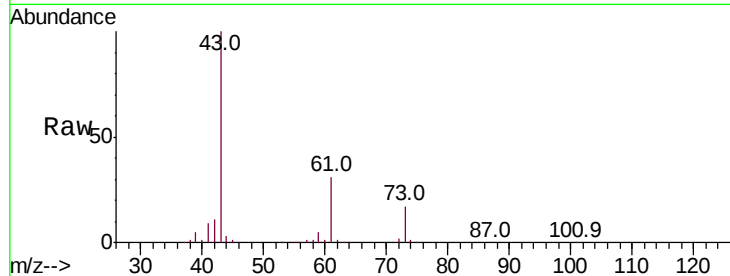




#45
 1,2-Dichloropropane
 Concen: 0.293 ug/l
 RT: 9.24 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN065001.D
 Acq: 9 Dec 2020 5:03

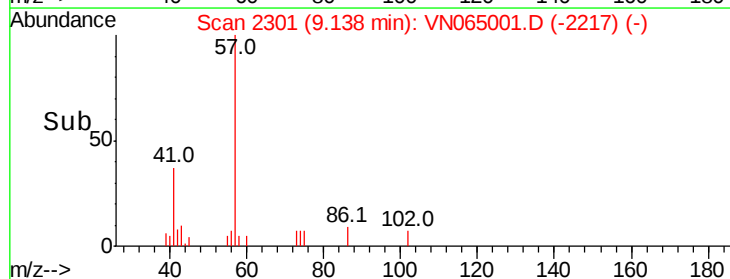
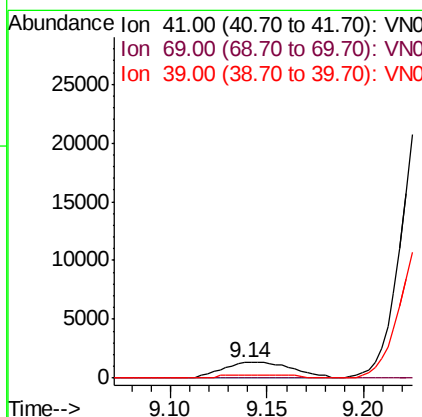
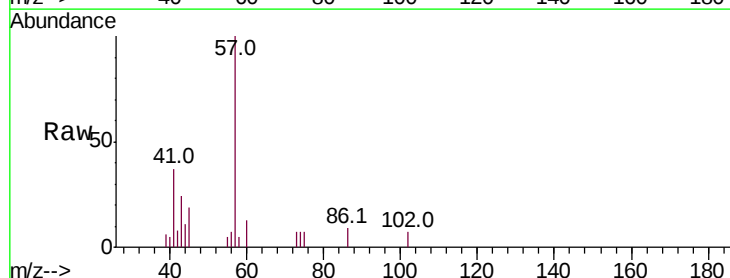
Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-D-BOTTOM

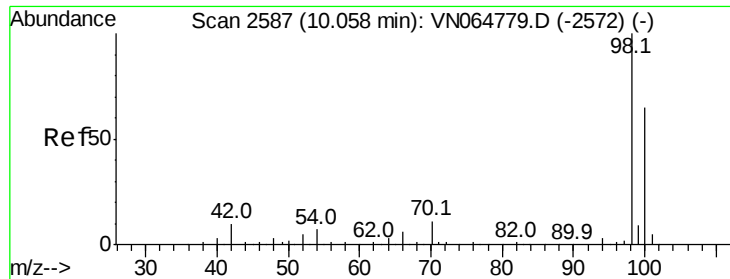
Tot Ion: 63 Resp: 695
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.508 ug/l
 RT: 9.14 min Scan# 2301
 Delta R.T. -0.03 min
 Lab File: VN065001.D
 Acq: 9 Dec 2020 5:03

Tgt Ion: 41 Resp: 3336
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 52.289 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

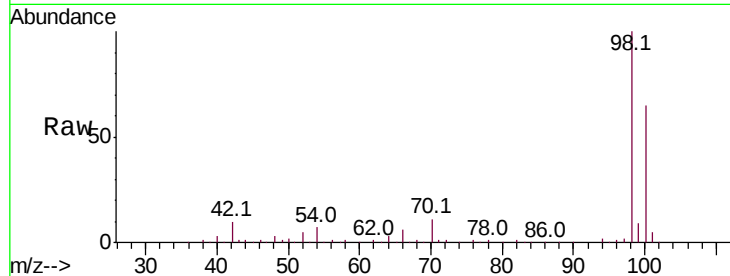
4S2-D-BOTTOM

Tot Ion: 98 Resp: 411914

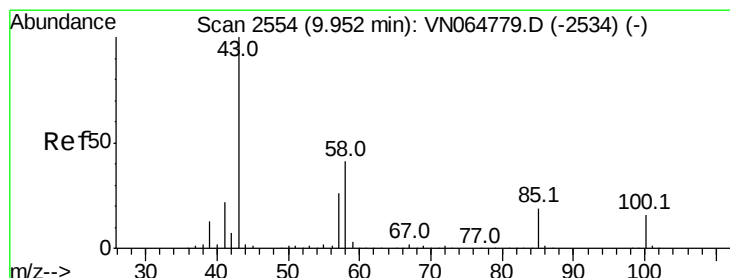
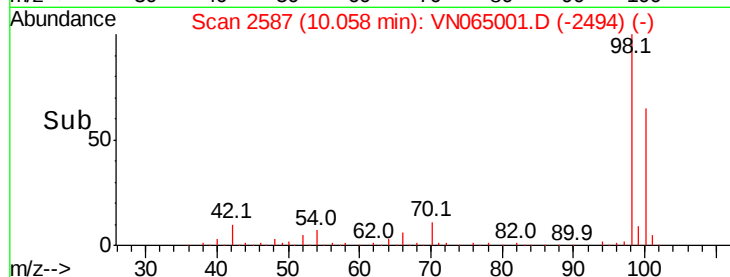
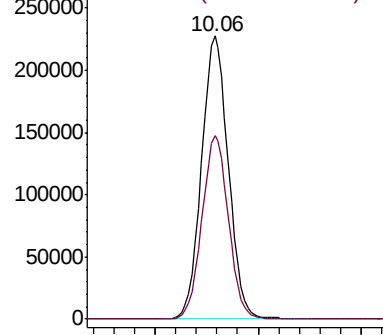
Ion Ratio Lower Upper

98 100

100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.029 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN065001.D

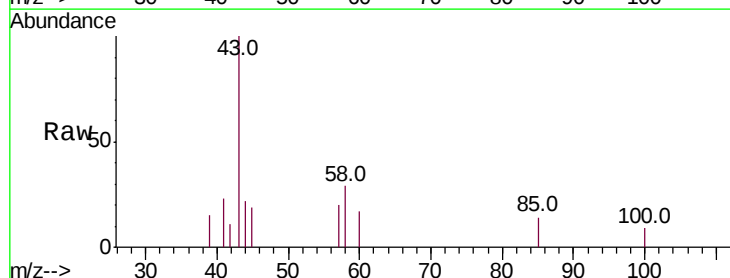
Acq: 9 Dec 2020 5:03

Tgt Ion: 43 Resp: 2861

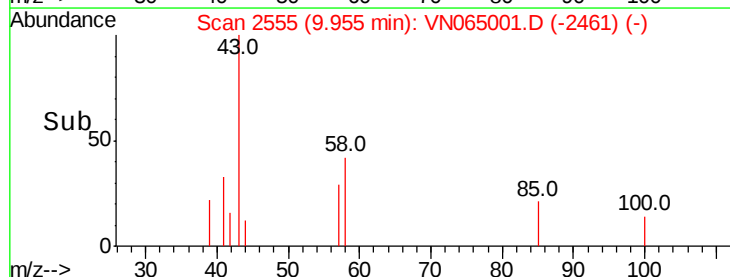
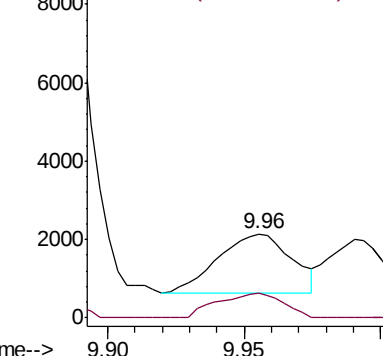
Ion Ratio Lower Upper

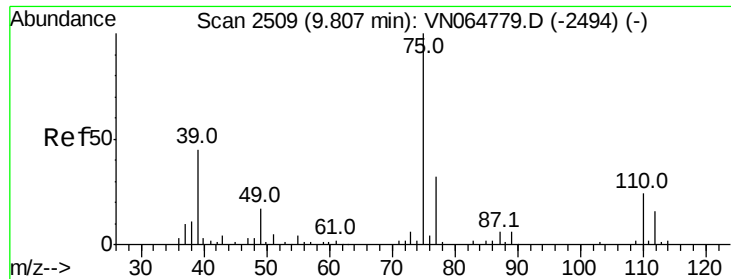
43 100

58 37.2 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)



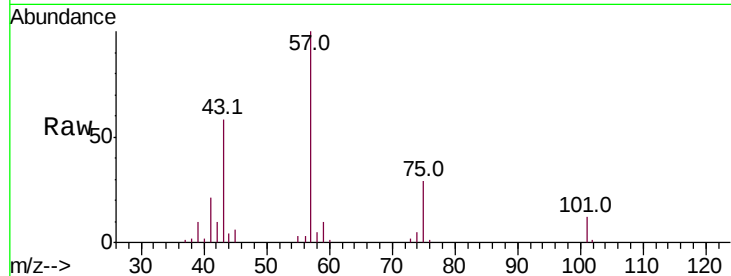


#54

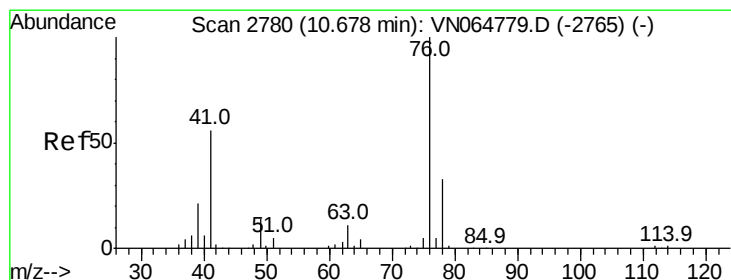
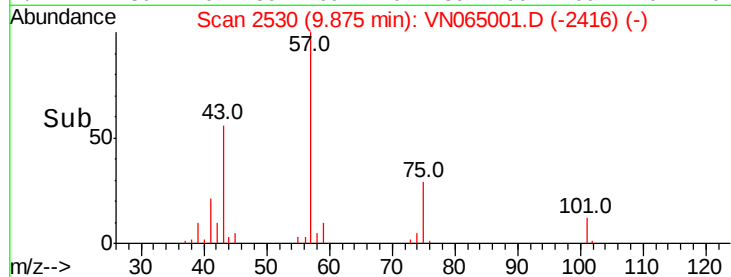
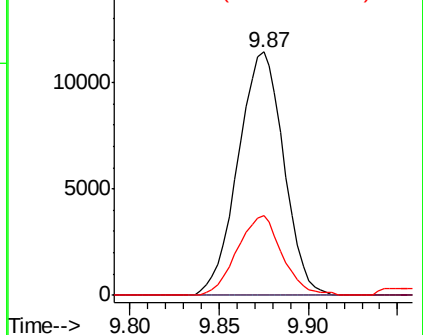
cis-1,3-Dichloropropene
 Concen: 5.373 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN065001.D
 Acq: 9 Dec 2020 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-D-BOTTOM

Tot Ion: 75 Resp: 20437
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 32.9 35.6 53.4#



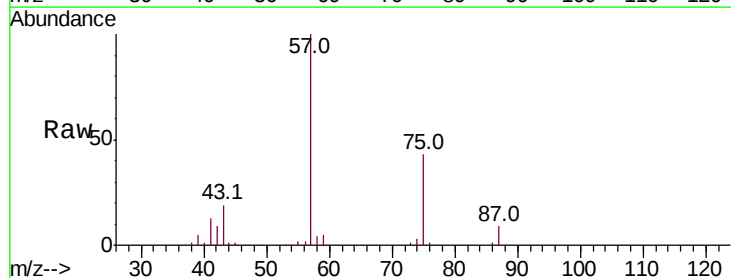
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



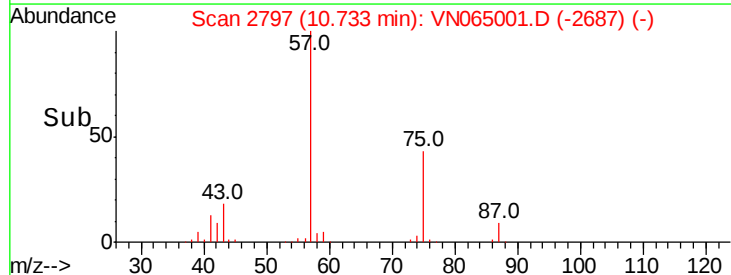
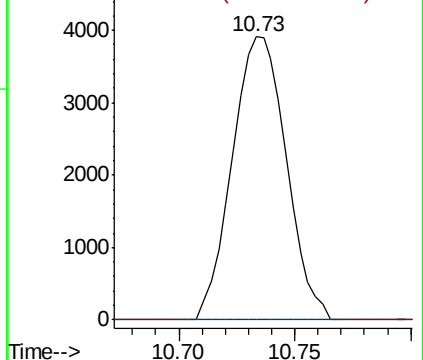
#57

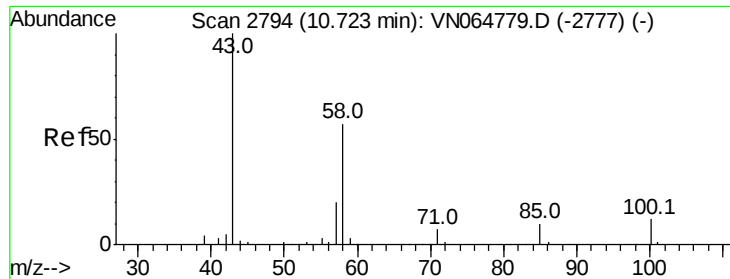
1,3-Dichloropropane
 Concen: 1.656 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN065001.D
 Acq: 9 Dec 2020 5:03

Tgt Ion: 76 Resp: 6330
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



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





#59

2-Hexanone

Concen: 40.412 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

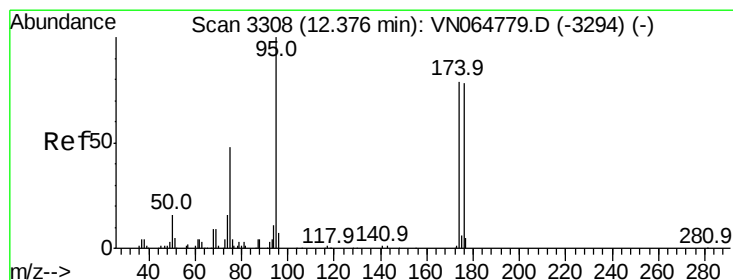
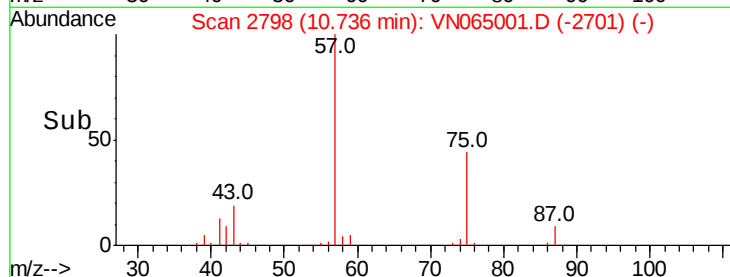
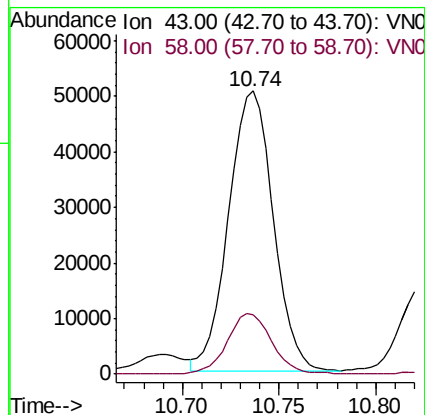
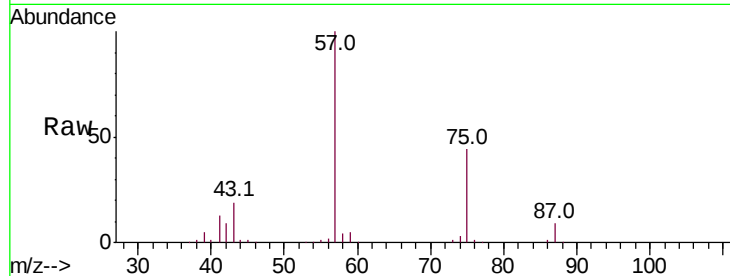
4S2-D-BOTTOM

Tot Ion: 43 Resp: 80828

Ion Ratio Lower Upper

43 100

58 21.5 28.3 84.9#



#62

4-Bromofluorobenzene

Concen: 53.380 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

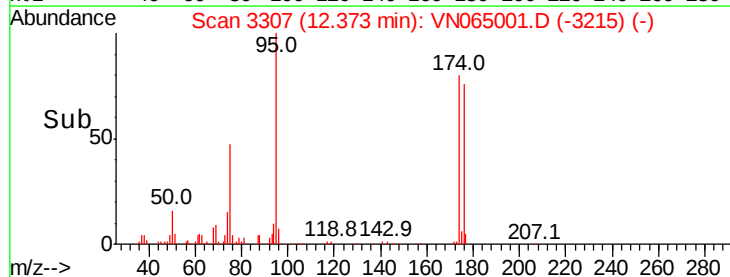
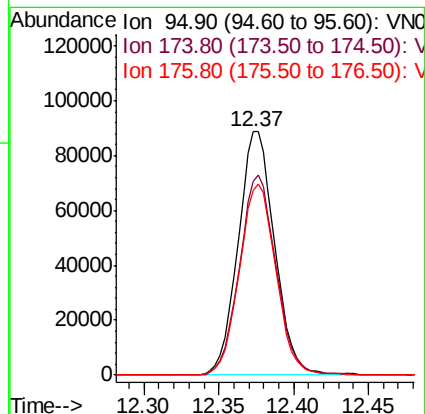
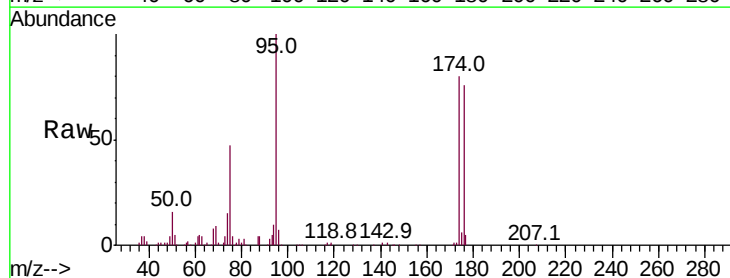
Tgt Ion: 95 Resp: 150490

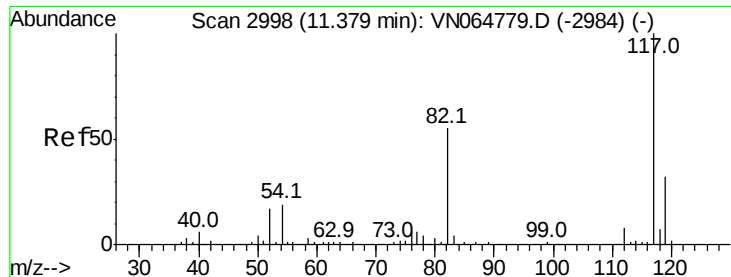
Ion Ratio Lower Upper

95 100

174 82.7 0.0 160.4

176 78.7 0.0 158.4

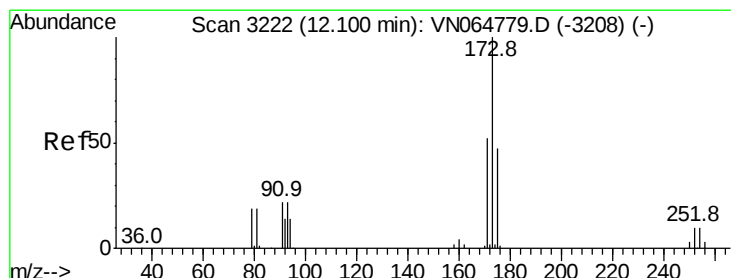
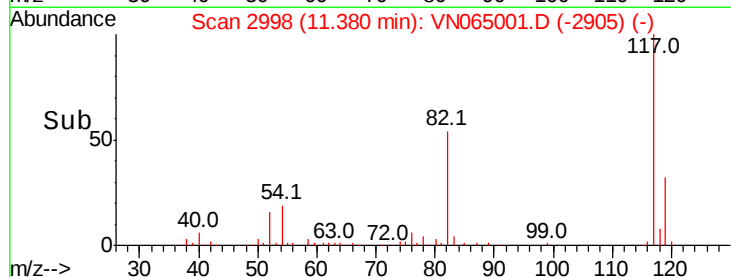
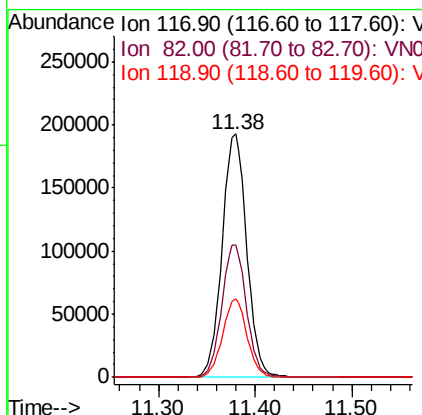
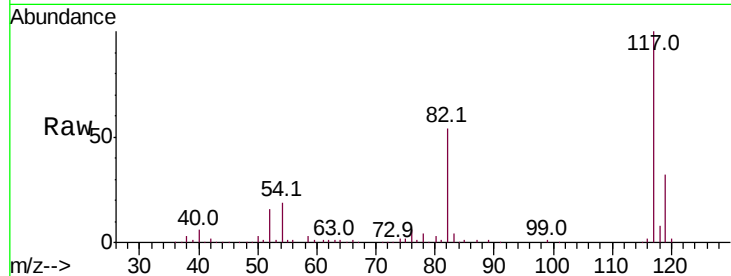




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065001.D
Acq: 9 Dec 2020 5:03

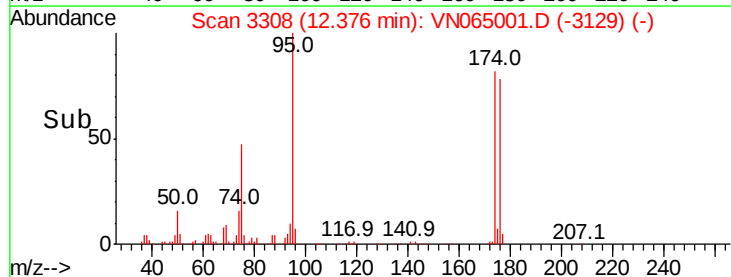
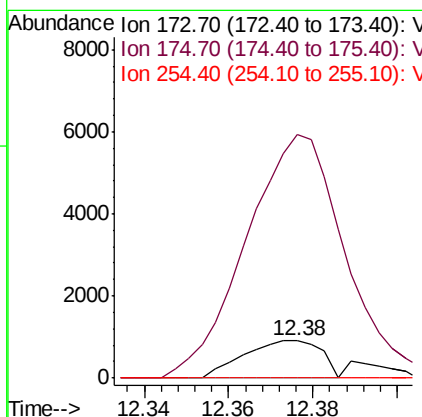
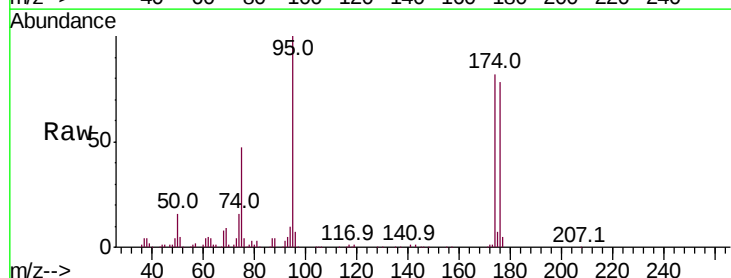
Instrument :
MSVOA_N
ClientSampleId :
4S2-D-BOTTOM

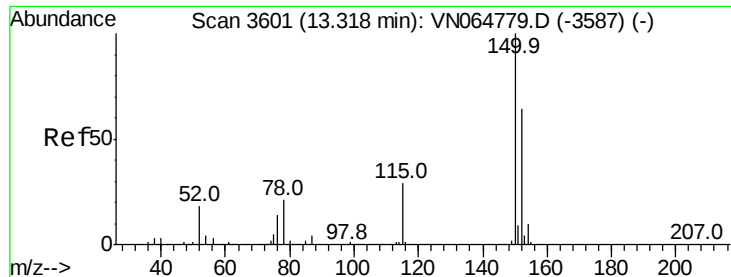
Tot Ion:117 Resp: 341427
Ion Ratio Lower Upper
117 100
82 54.5 44.2 66.2
119 32.3 25.8 38.6



#71
Bromoform
Concen: 0.541 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN065001.D
Acq: 9 Dec 2020 5:03

Tgt Ion:173 Resp: 1165
Ion Ratio Lower Upper
173 100
175 711.6 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

4S2-D-BOTTOM

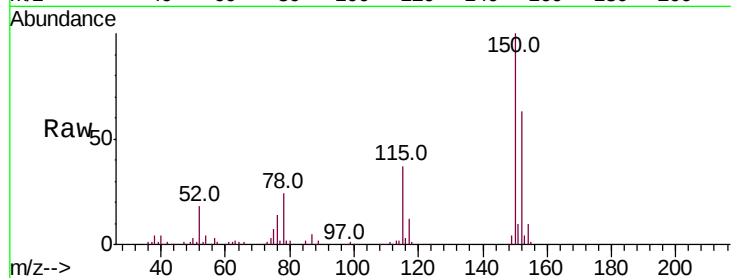
Tot Ion:152 Resp: 138655

Ion Ratio Lower Upper

152 100

115 59.2 29.7 89.1

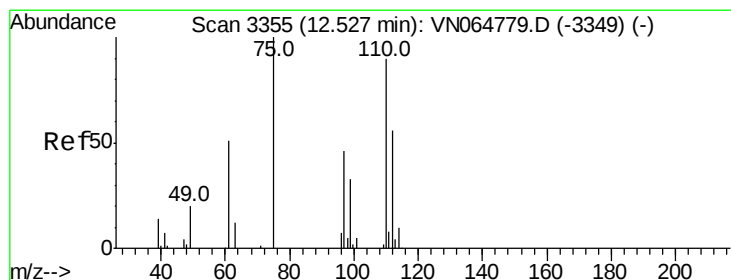
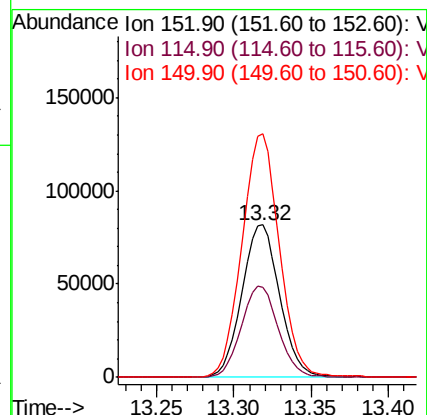
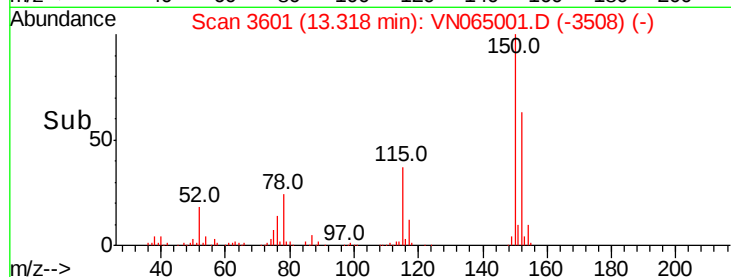
150 158.8 0.0 350.6



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



#76

1,2,3-Trichloropropane

Concen: 23.705 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN065001.D

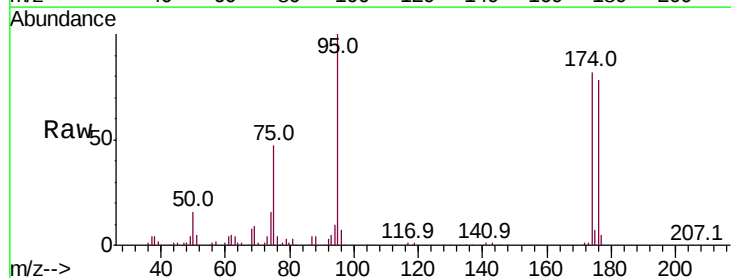
Acq: 9 Dec 2020 5:03

Tgt Ion: 75 Resp: 70785

Ion Ratio Lower Upper

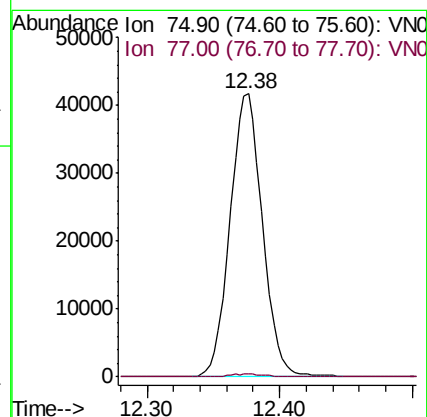
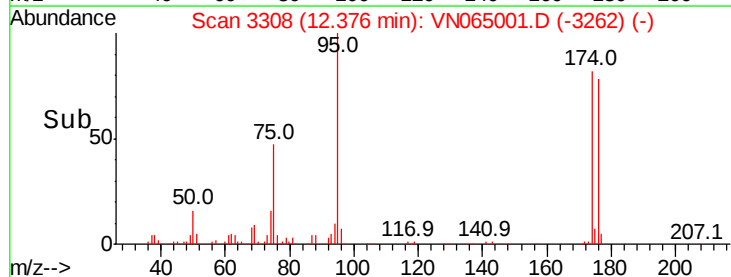
75 100

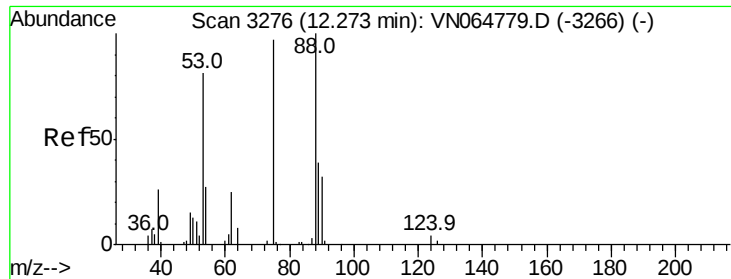
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 64.970 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN065001.D

Acq: 9 Dec 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

4S2-D-BOTTOM

Tot Ion: 75 Resp: 70785

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

