

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064998.D
 Acq On : 9 Dec 2020 3:51
 Operator : JC/MD
 Sample : L4970-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-C-TOP

Quant Time: Dec 09 07:59:59 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	7.62	168	161888	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	311476	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	329525	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	141233	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	105296	55.95	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	111.90%
35) Dibromofluoromethane	7.55	113	97505	52.32	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	104.64%
50) Toluene-d8	10.06	98	394368	51.79	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	103.58%
62) 4-Bromofluorobenzene	12.38	95	146763	53.85	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	107.70%

Target Compounds

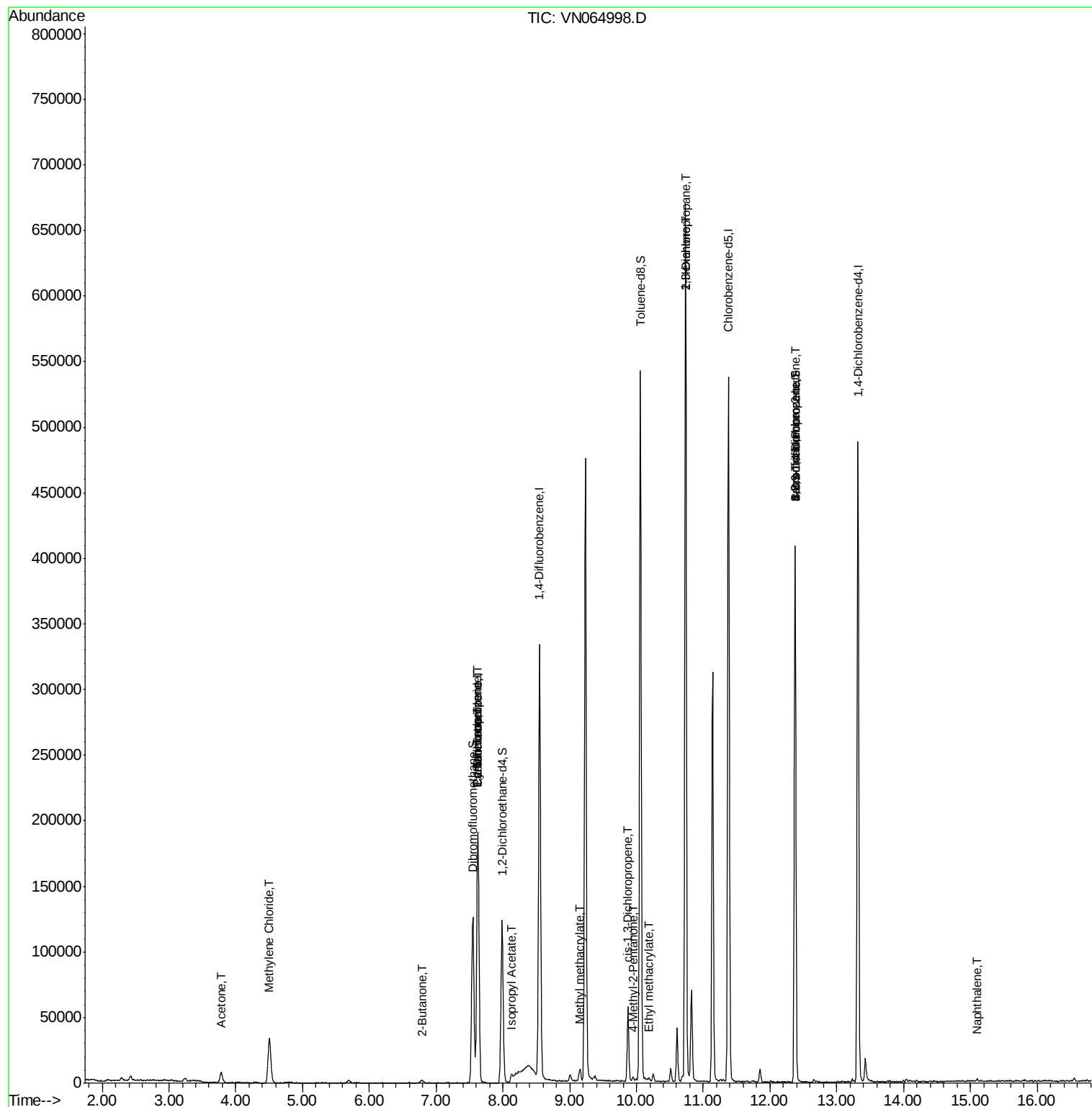
						Qvalue
16) Acetone	3.78	43	14234	23.007	ug/l	100
20) Methylene Chloride	4.50	84	26939	13.895	ug/l	95
25) 2-Butanone	6.79	43	850	0.848	ug/l	91
31) Cyclohexane	7.63	56	2843	1.084	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11143	3.860	ug/l #	47
38) Carbon Tetrachloride	7.62	117	15499	5.159	ug/l #	17
43) Isopropyl Acetate	8.13	43	9491	2.121	ug/l #	87
48) Methyl methacrylate	9.14	41	2508	1.173	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	2439	0.908	ug/l #	79
54) cis-1,3-Dichloropropene	9.87	75	10272	2.794	ug/l #	66
56) Ethyl methacrylate	10.19	69	974	0.315	ug/l #	91
57) 1,3-Dichloropropane	10.74	76	7005	1.895	ug/l #	42
59) 2-Hexanone	10.74	43	91221	47.180	ug/l #	51
71) Bromoform	12.37	173	1207	0.581	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	70046	23.030	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	70046	63.119	ug/l #	15
95) Naphthalene	15.10	128	2395	0.280	ug/l #	84

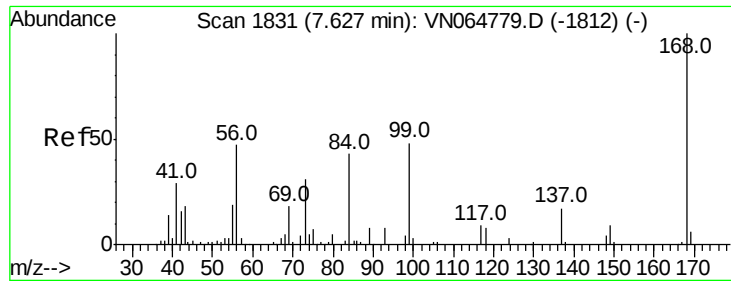
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120820\
Data File : VN064998.D
Acq On : 9 Dec 2020 3:51
Operator : JC/MD
Sample : L4970-08
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
4S2-C-TOP

Quant Time: Dec 09 07:59:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

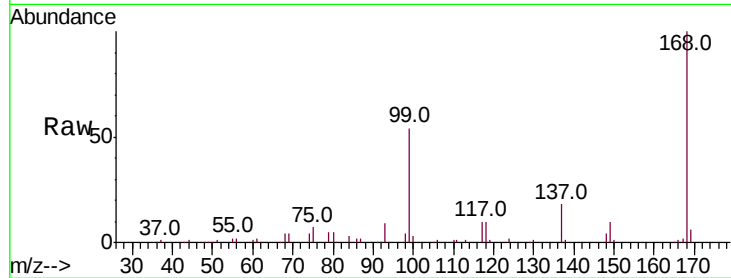
4S2-C-TOP

Tot Ion:168 Resp: 161888

Ion Ratio Lower Upper

168 100

99 53.9 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

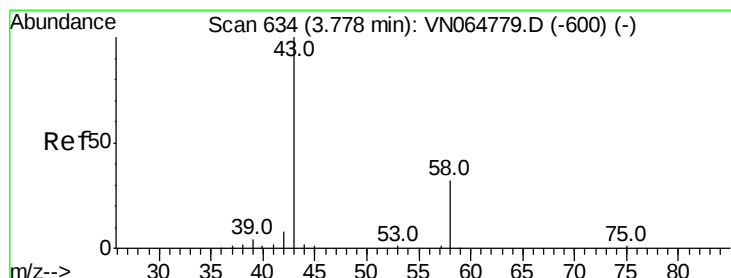
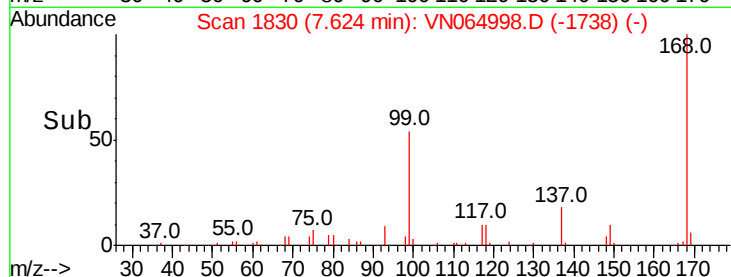
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 23.007 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064998.D

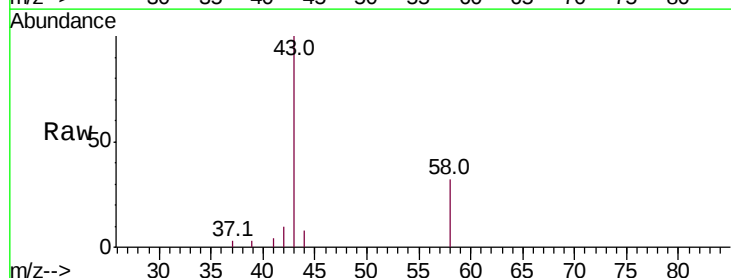
Acq: 9 Dec 2020 3:51

Tgt Ion: 43 Resp: 14234

Ion Ratio Lower Upper

43 100

58 31.9 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

6000

5000

4000

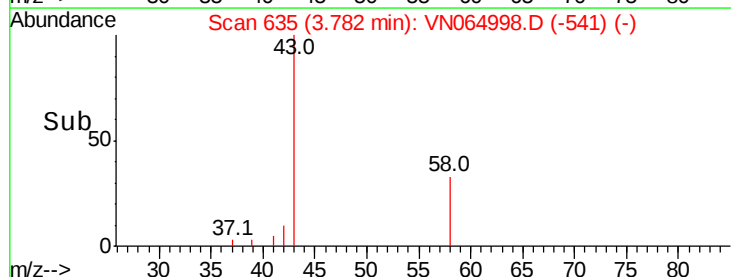
3000

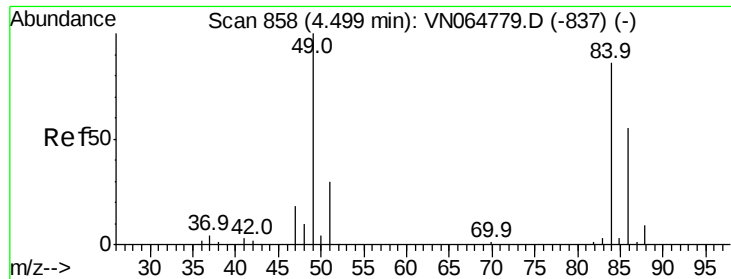
2000

1000

0

Time--> 3.70 3.75 3.80 3.85



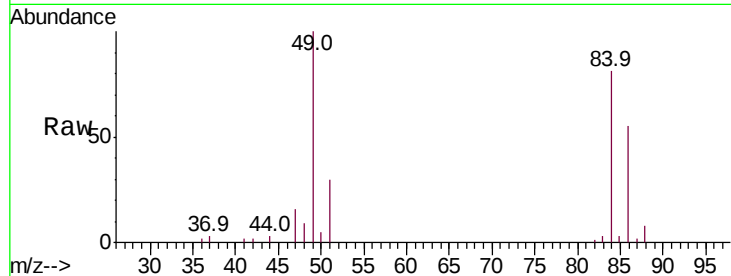


#20
Methvlene Chloride
Concen: 13.895 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN064998.D
Acq: 9 Dec 2020 3:51

Instrument :
MSVOA_N
ClientSampled :
4S2-C-TOP

Tot Ion: 84 Resp: 26939

Ion	Ratio	Lower	Upper
84	100		
49	123.7	93.4	140.0
51	37.3	28.2	42.4
86	67.9	51.7	77.5

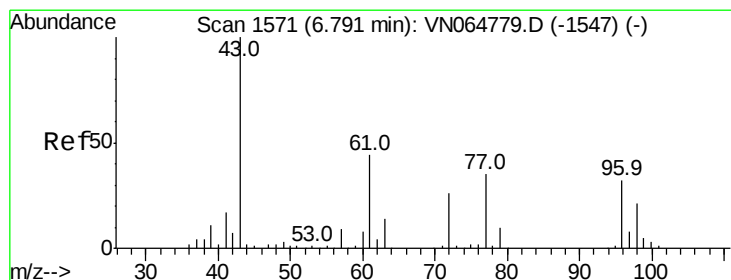
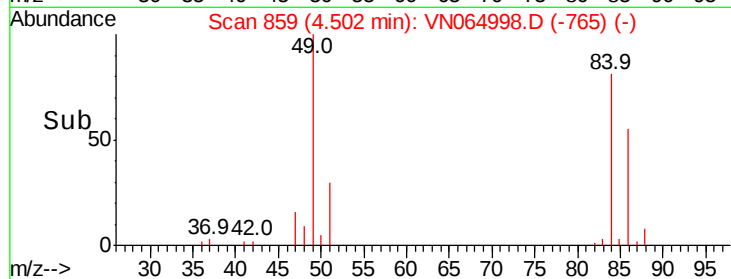
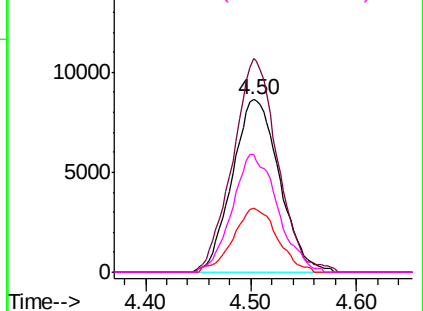


Abundance Ion 83.90 (83.60 to 84.60): VN064779.D (-837) (-)

Ion 48.90 (48.60 to 49.60): VN064779.D (-837) (-)

Ion 50.90 (50.60 to 51.60): VN064779.D (-837) (-)

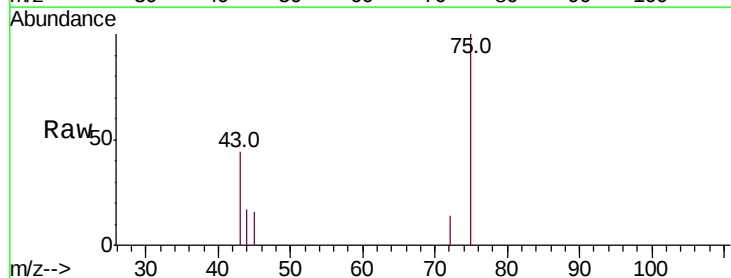
Ion 85.90 (85.60 to 86.60): VN064779.D (-837) (-)



#25
2-Butanone
Concen: 0.848 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN064998.D
Acq: 9 Dec 2020 3:51

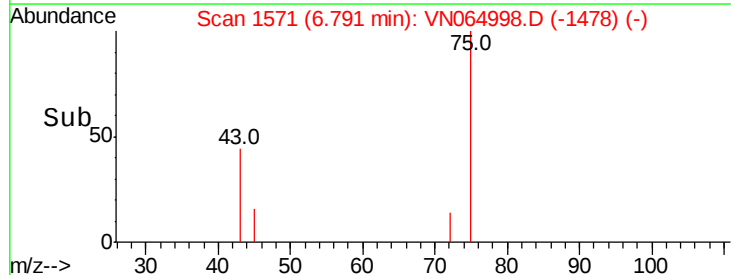
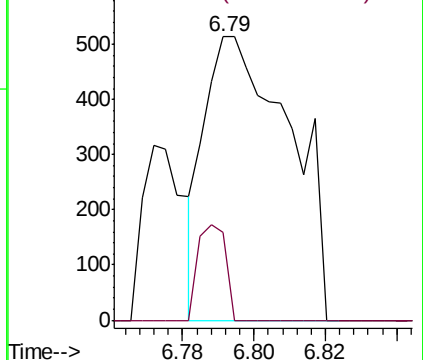
Tgt Ion: 43 Resp: 850

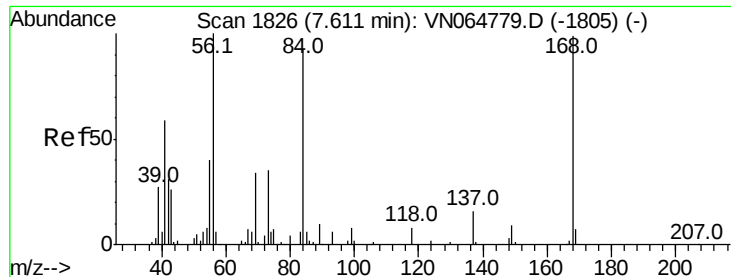
Ion	Ratio	Lower	Upper
43	100		
72	31.0	21.0	31.6



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

Ion 72.00 (71.70 to 72.70): VN064779.D (-1547) (-)





#31

Cyclohexane

Concen: 1.084 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampled :

4S2-C-TOP

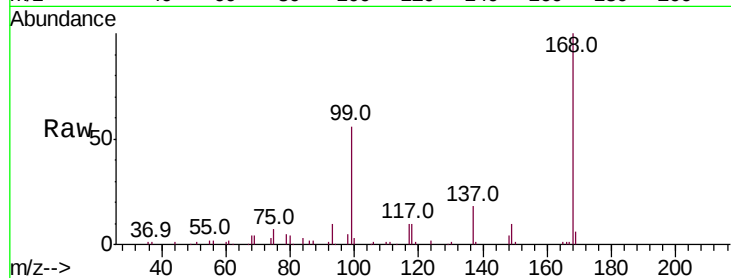
Tot Ion: 56 Resp: 2843

Ion Ratio Lower Upper

56 100

69 203.0 27.5 41.3#

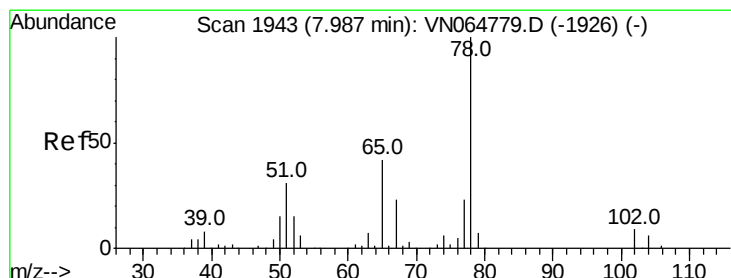
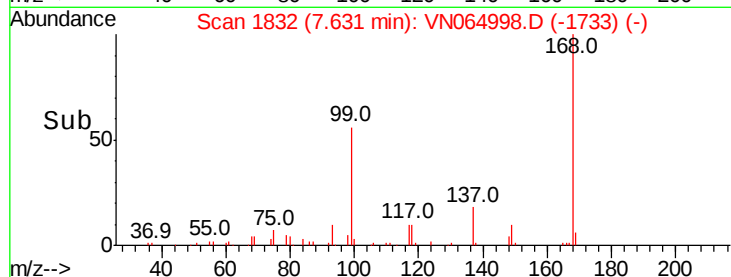
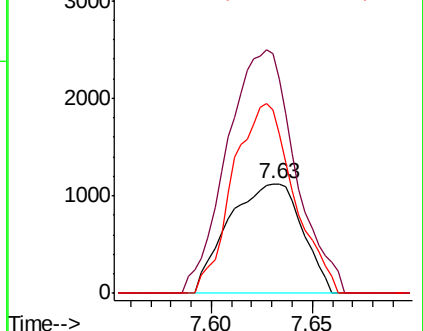
84 167.4 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.947 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064998.D

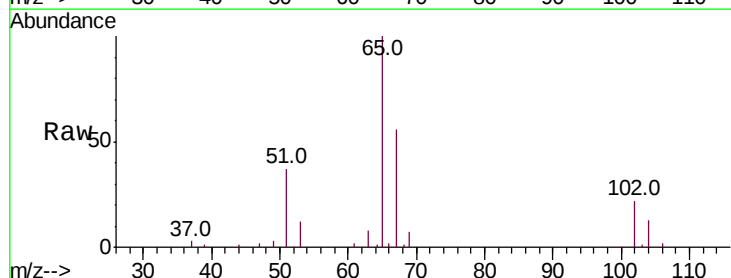
Acq: 9 Dec 2020 3:51

Tgt Ion: 65 Resp: 105296

Ion Ratio Lower Upper

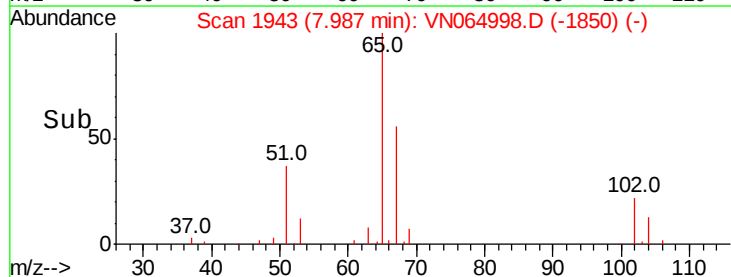
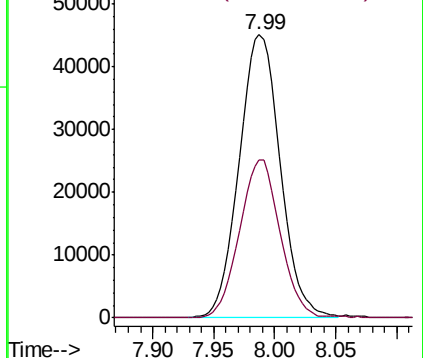
65 100

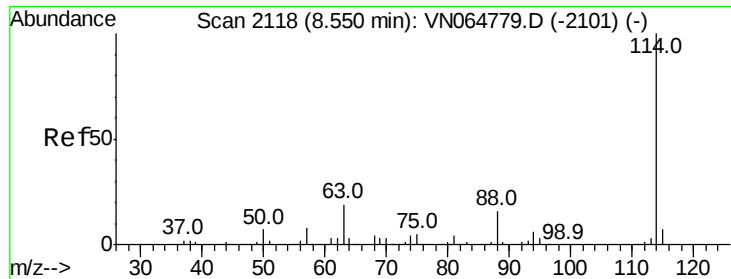
67 55.1 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

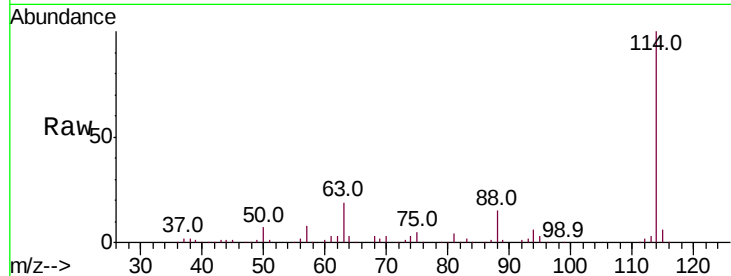




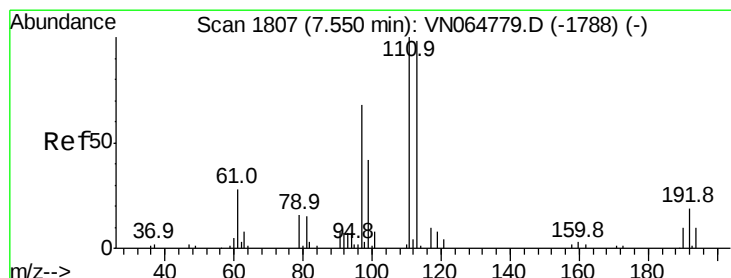
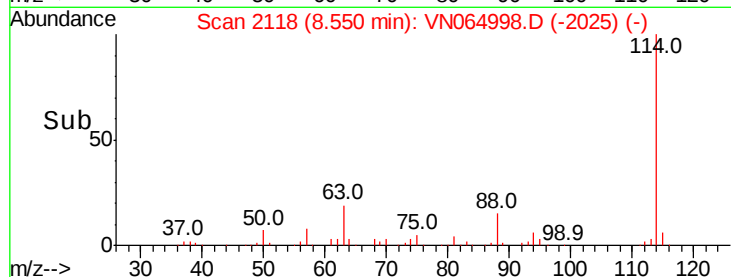
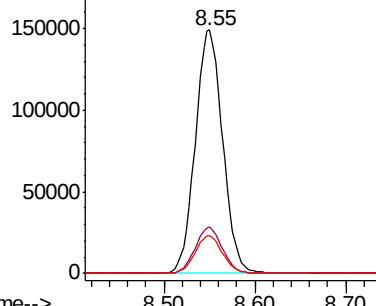
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064998.D
 Acq: 9 Dec 2020 3:51

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-C-TOP

Tot Ion:114 Resp: 311476
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 15.5 0.0 32.6

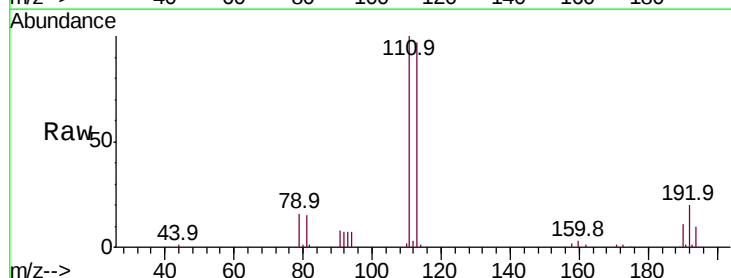


Abundance Ion 113.90 (113.60 to 114.60): V
 200000 Ion 63.00 (62.70 to 63.70): VN
 150000 Ion 87.90 (87.60 to 88.60): VN

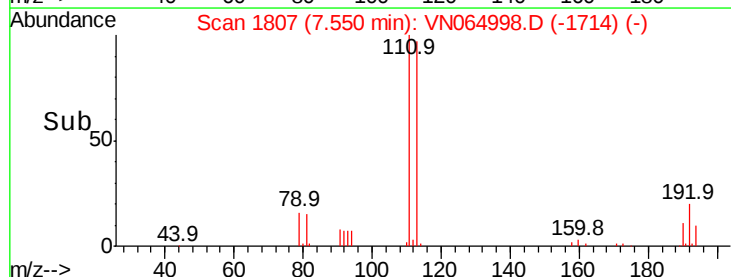
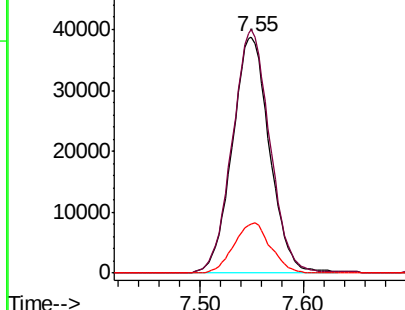


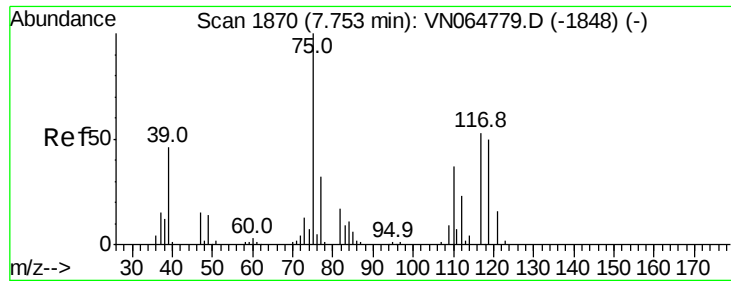
#35
 Dibromofluoromethane
 Concen: 52.316 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064998.D
 Acq: 9 Dec 2020 3:51

Tgt Ion:113 Resp: 97505
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.6 122.4
 192 20.8 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V
 50000 Ion 110.80 (110.50 to 111.50): V
 40000 Ion 191.70 (191.40 to 192.40): V

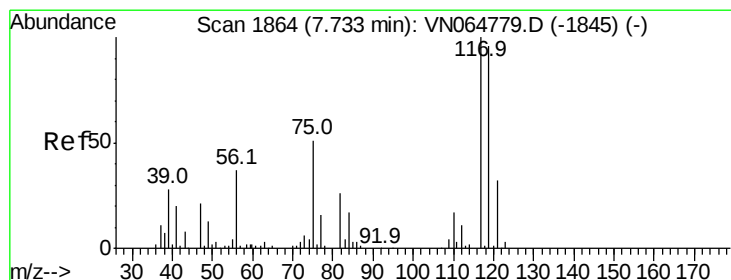
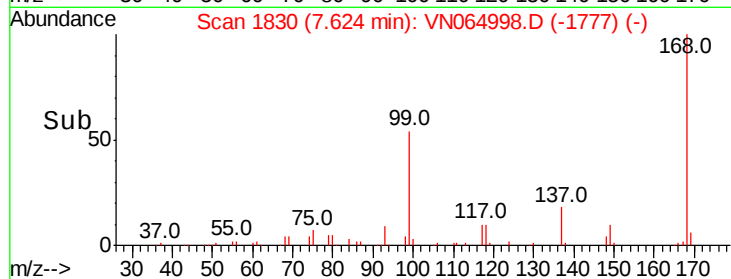
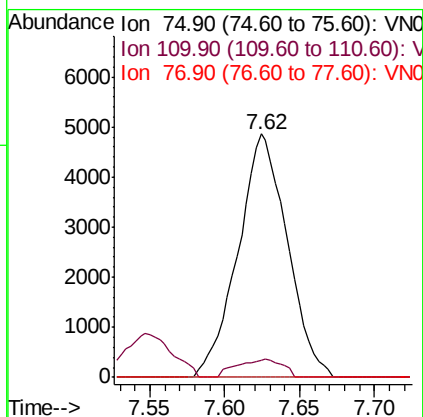
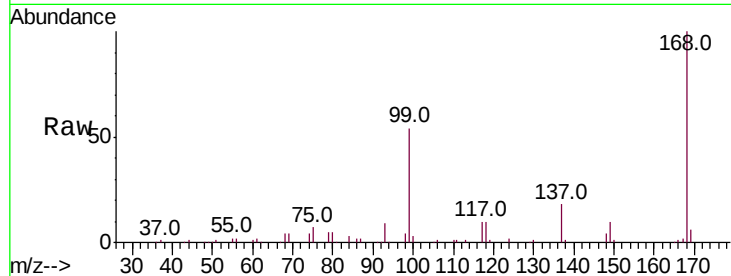




#36
 1,1-Dichloropropene
 Concen: 3.860 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064998.D
 Acq: 9 Dec 2020 3:51

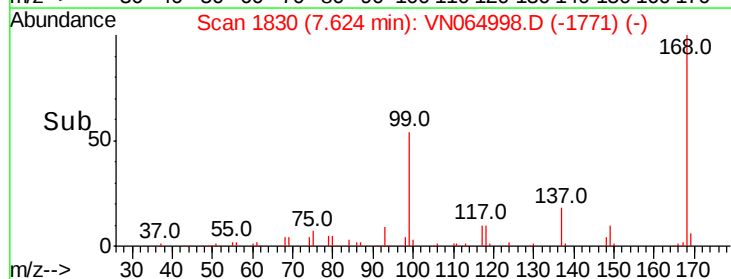
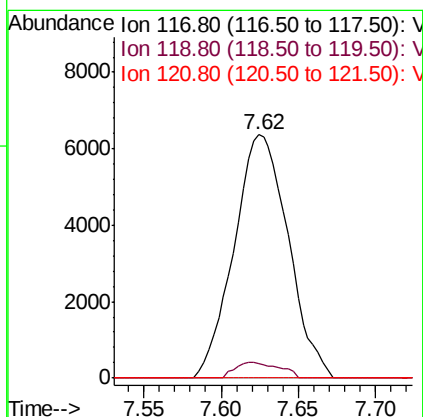
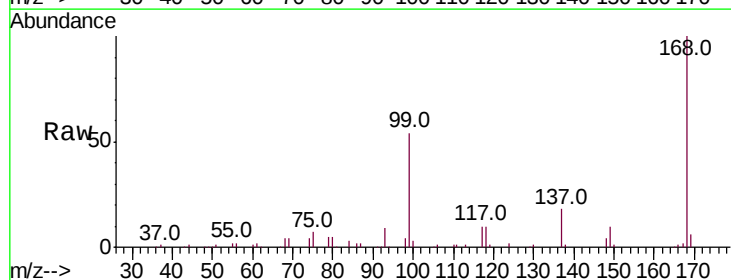
Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-C-TOP

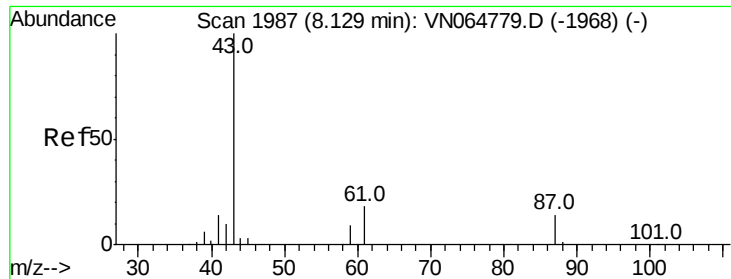
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.9	17.8	53.3#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.159 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064998.D
 Acq: 9 Dec 2020 3:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	76.7	115.1#
121	0.0	25.4	38.2#





#43

Isopropyl Acetate

Concen: 2.121 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

4S2-C-TOP

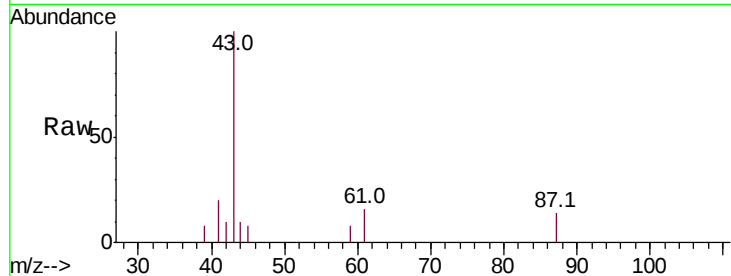
Tot Ion: 43 Resp: 9491

Ion Ratio Lower Upper

43 100

61 15.0 17.2 25.8#

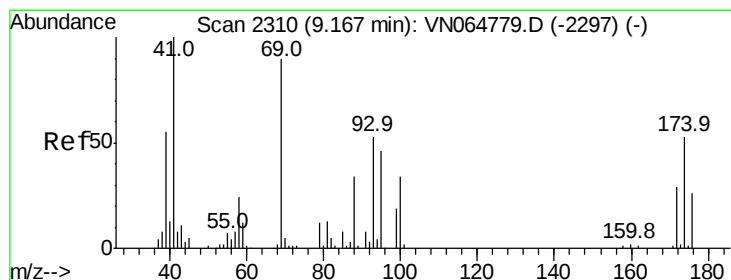
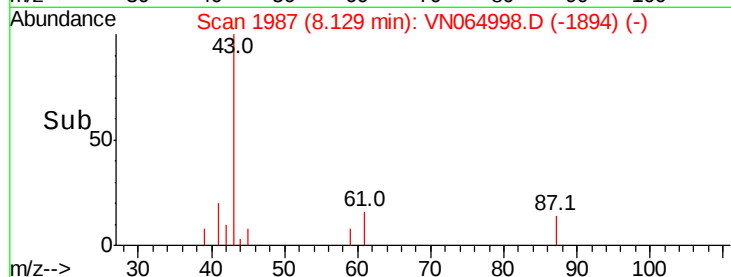
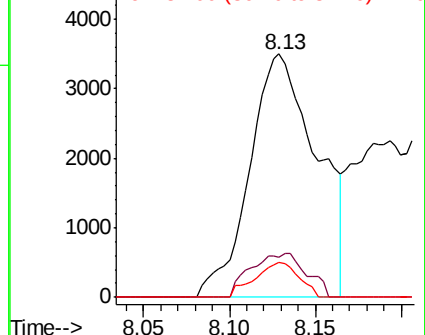
87 9.4 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.173 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

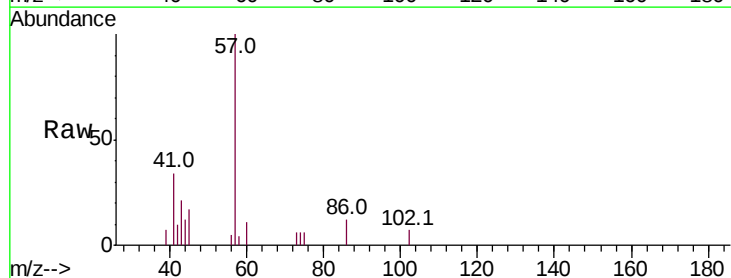
Tgt Ion: 41 Resp: 2508

Ion Ratio Lower Upper

41 100

69 0.0 71.8 107.8#

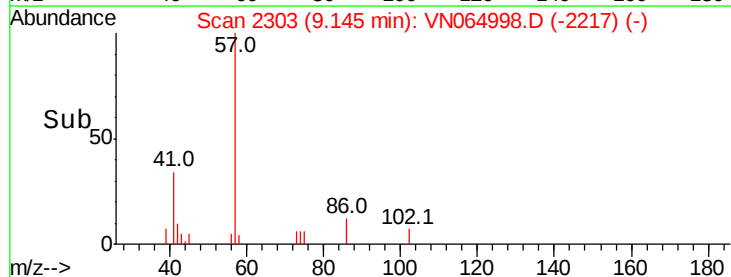
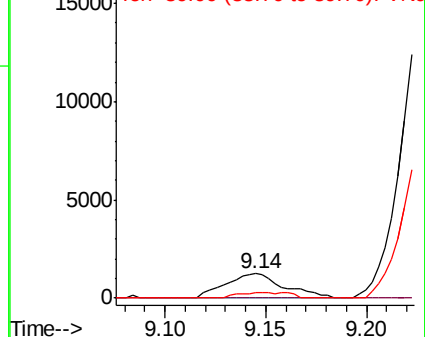
39 0.0 44.1 66.1#

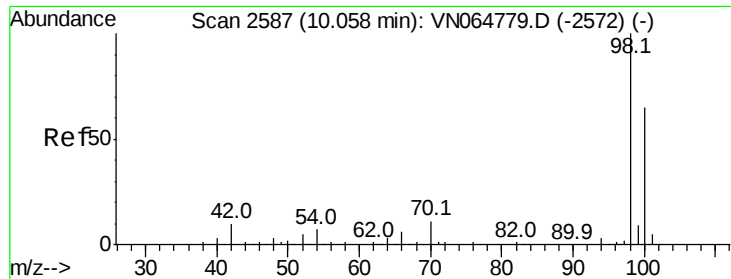


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 51.787 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampled :

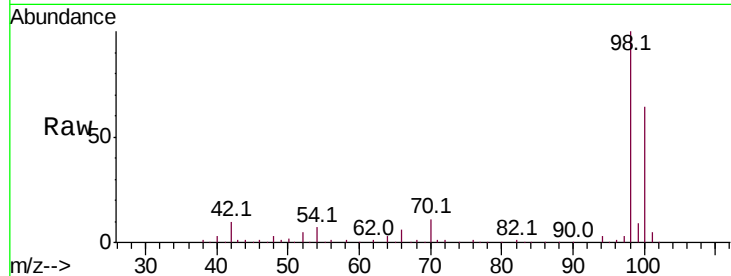
4S2-C-TOP

Tot Ion: 98 Resp: 394368

Ion Ratio Lower Upper

98 100

100 64.6 51.7 77.5



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

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

250000

200000

150000

100000

50000

0

10.06

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

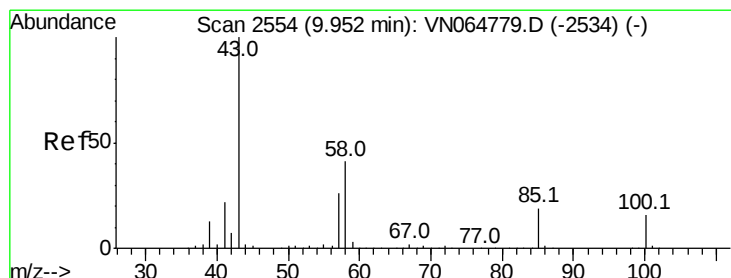
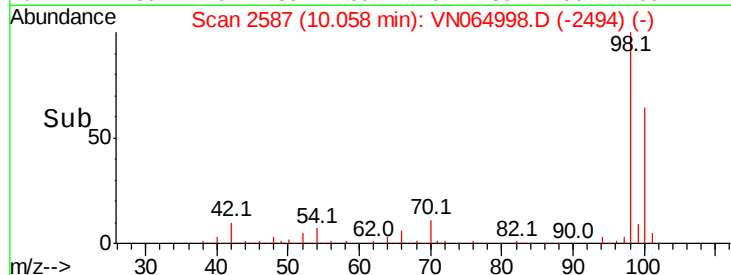
12.80

12.85

12.90

12.95

13.00



#51

4-Methyl-2-Pentanone

Concen: 0.908 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064998.D

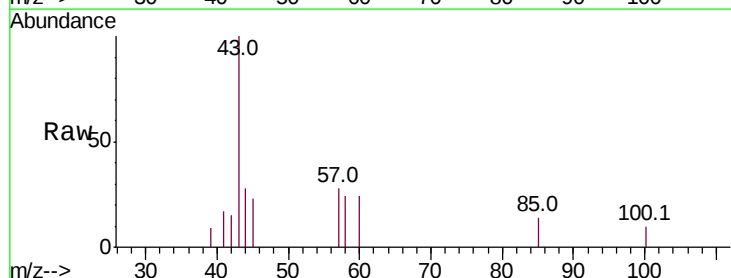
Acq: 9 Dec 2020 3:51

Tgt Ion: 43 Resp: 2439

Ion Ratio Lower Upper

43 100

58 27.2 32.4 48.6#



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

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)

1500

1000

500

0

9.95

10.00

10.05

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

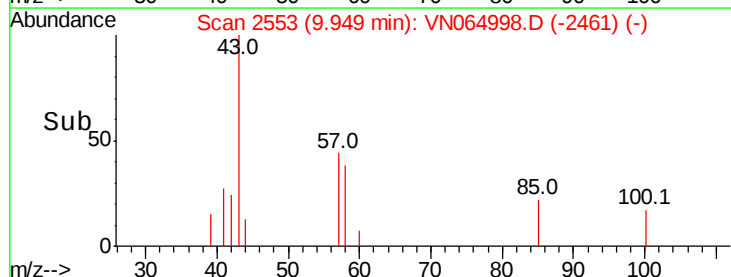
12.80

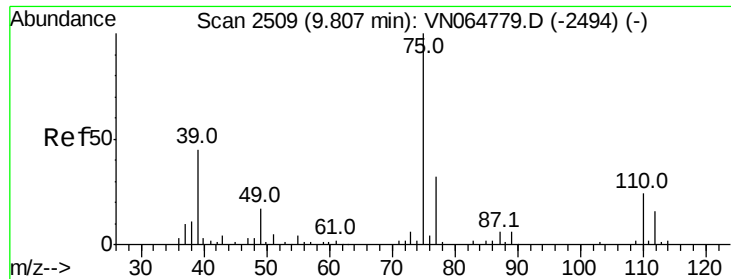
12.85

12.90

12.95

13.00





#54

cis-1,3-Dichloropropene

Concen: 2.794 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

4S2-C-TOP

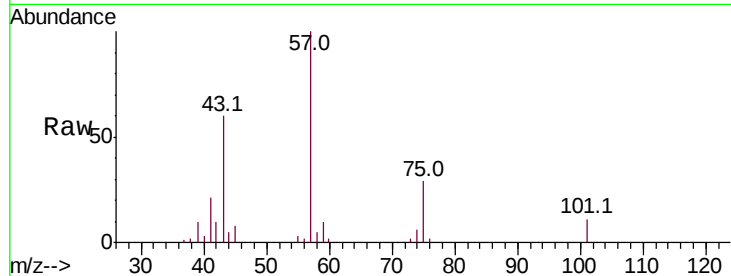
Tot Ion: 75 Resp: 10272

Ion Ratio Lower Upper

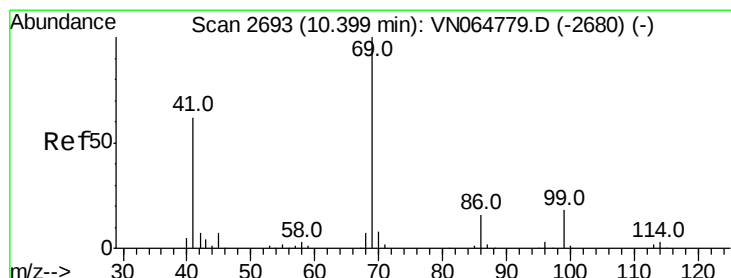
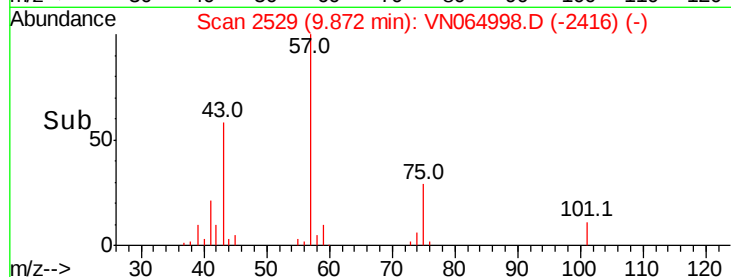
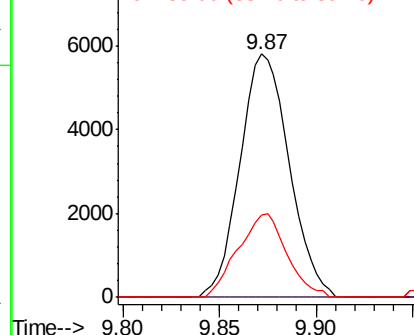
75 100

77 0.0 25.5 38.3#

39 33.8 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



#56

Ethyl methacrylate

Concen: 0.315 ug/l

RT: 10.19 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

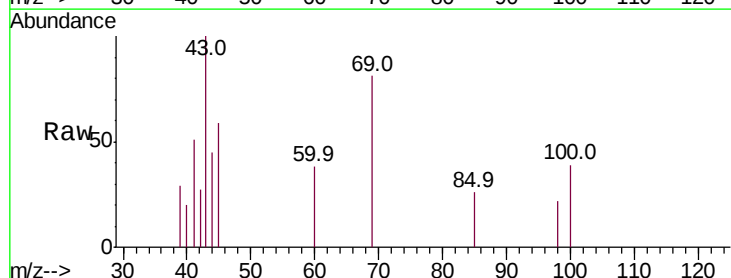
Tgt Ion: 69 Resp: 974

Ion Ratio Lower Upper

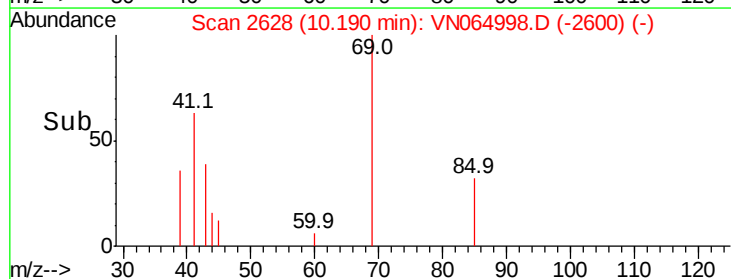
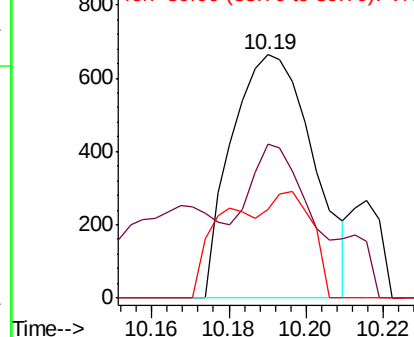
69 100

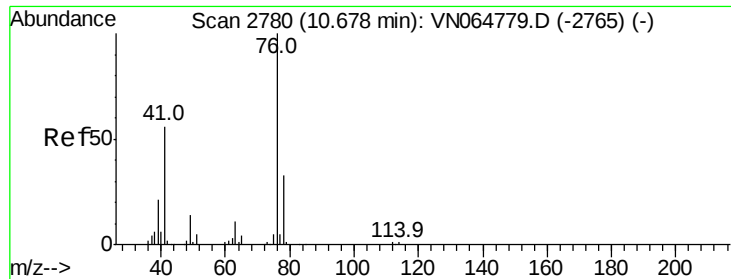
41 56.9 49.4 74.0

39 24.6 25.9 38.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.895 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampled :

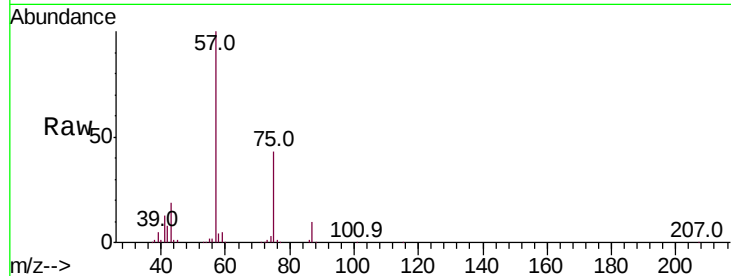
4S2-C-TOP

Tot Ion: 76 Resp: 7005

Ion Ratio Lower Upper

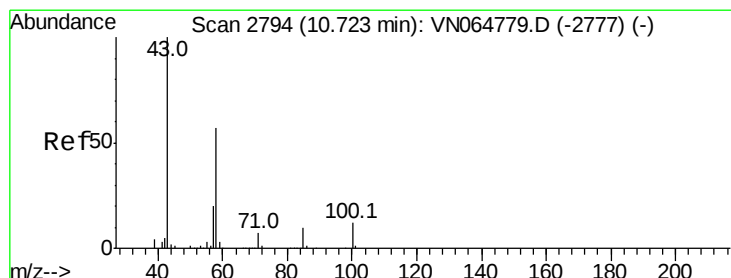
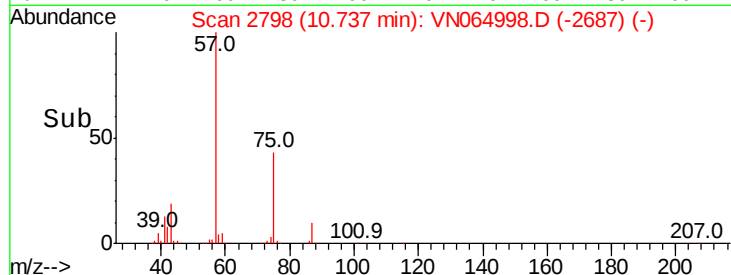
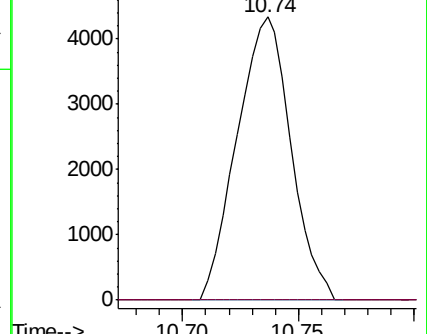
76 100

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: 47.180 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064998.D

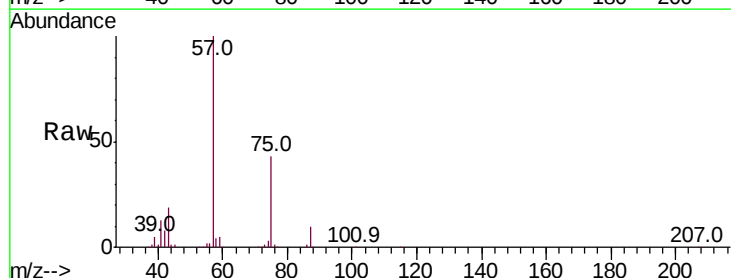
Acq: 9 Dec 2020 3:51

Tgt Ion: 43 Resp: 91221

Ion Ratio Lower Upper

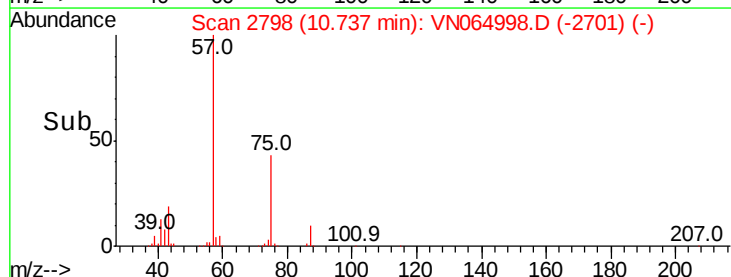
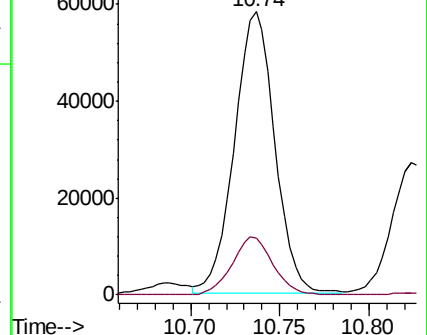
43 100

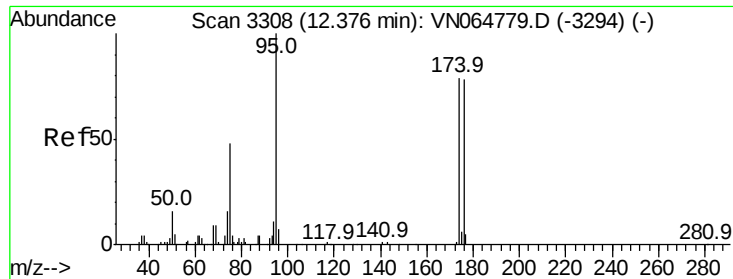
58 20.9 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

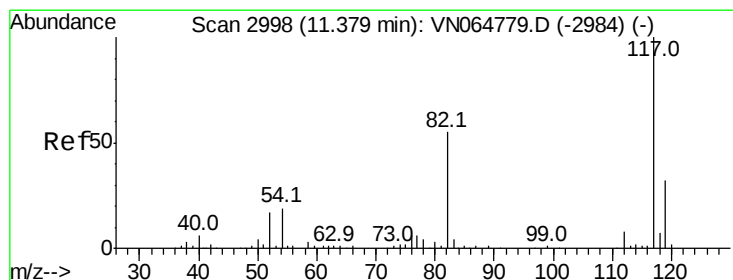
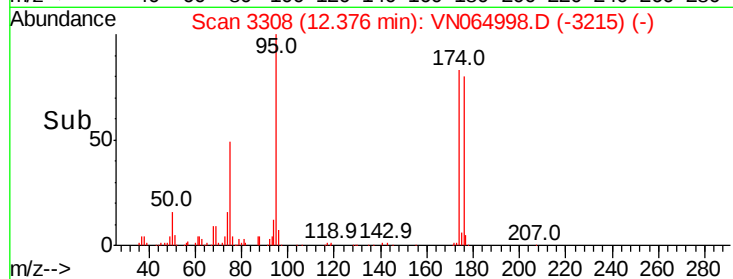
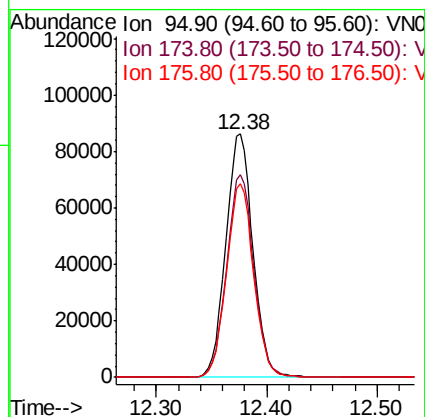
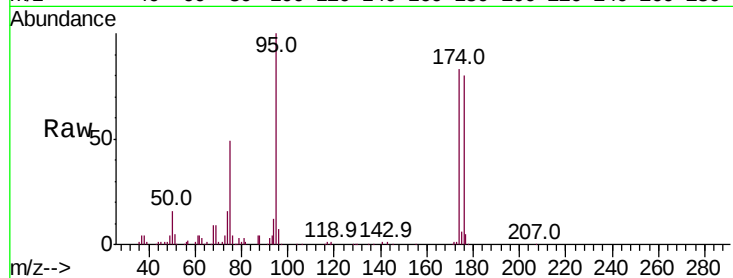




#62
4-Bromofluorobenzene
Concen: 53.851 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064998.D
Acq: 9 Dec 2020 3:51

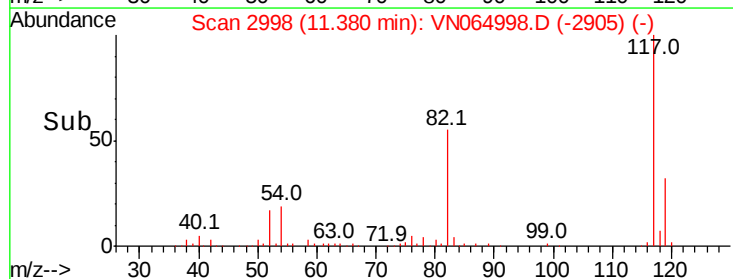
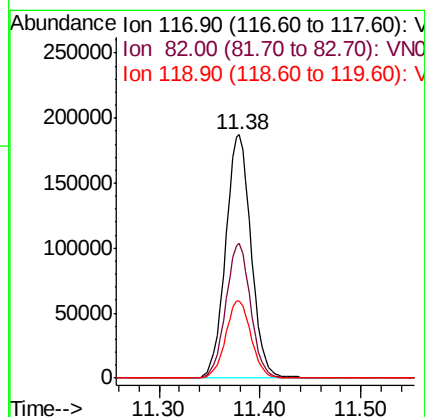
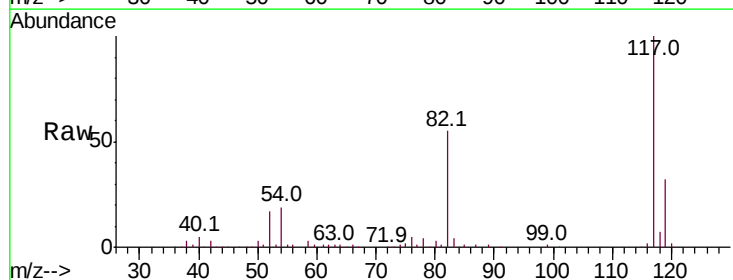
Instrument :
MSVOA_N
ClientSampleId :
4S2-C-TOP

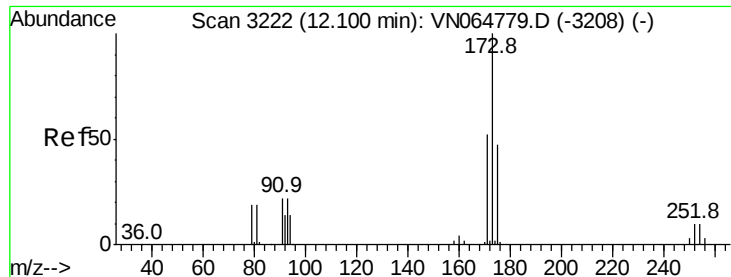
Tot Ion: 95 Resp: 146763
Ion Ratio Lower Upper
95 100
174 83.9 0.0 160.4
176 79.7 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064998.D
Acq: 9 Dec 2020 3:51

Tgt Ion: 117 Resp: 329525
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.2
119 32.0 25.8 38.6





#71

Bromoform

Concen: 0.581 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

4S2-C-TOP

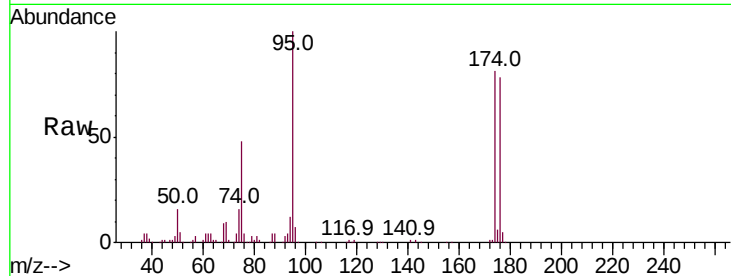
Tot Ion:173 Resp: 1207

Ion Ratio Lower Upper

173 100

175 637.4 24.3 72.8#

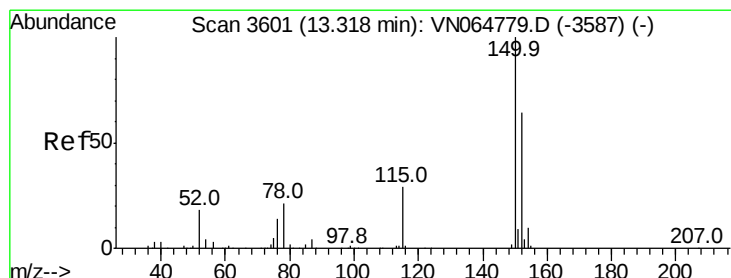
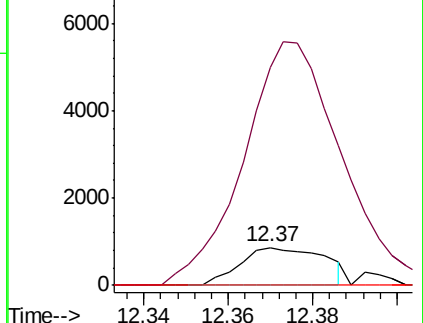
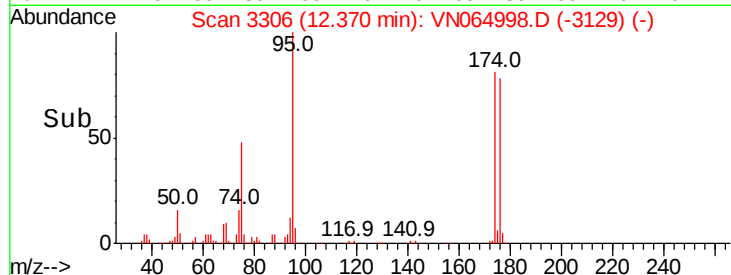
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

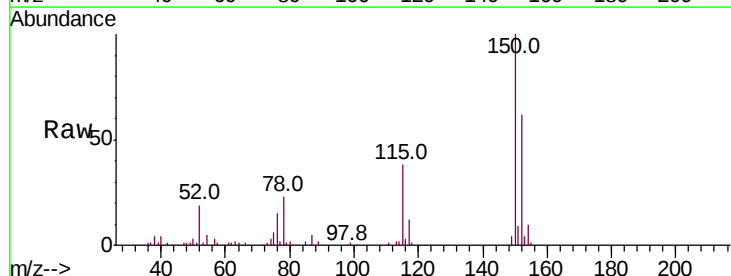
Tgt Ion:152 Resp: 141233

Ion Ratio Lower Upper

152 100

115 59.6 29.7 89.1

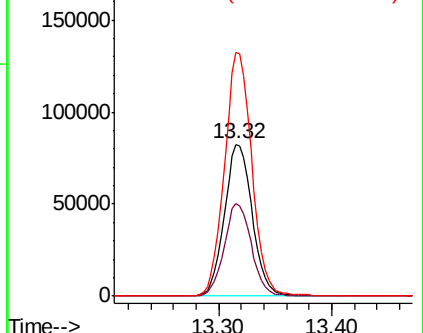
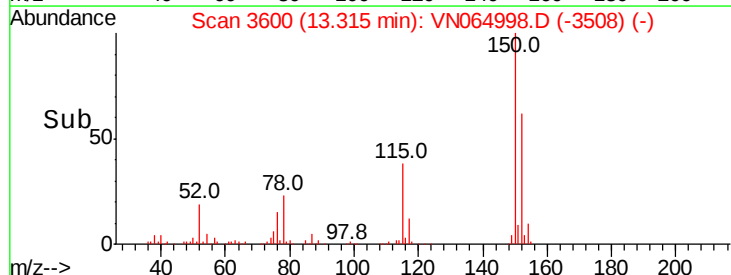
150 157.4 0.0 350.6

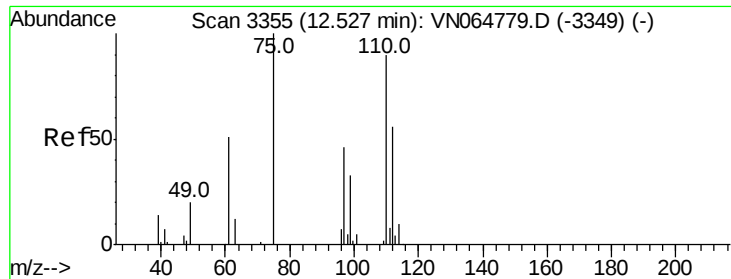


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.030 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

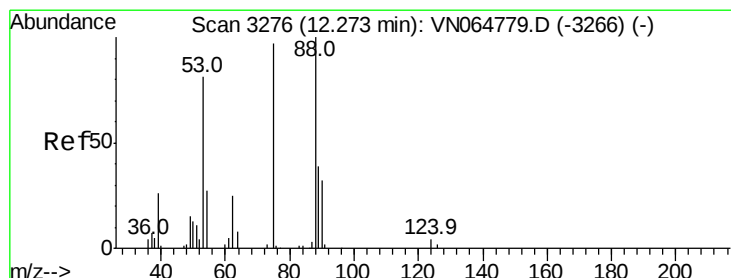
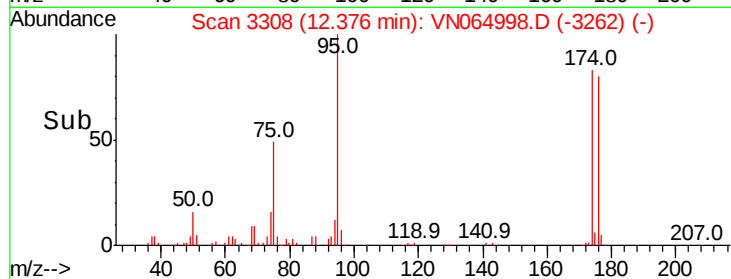
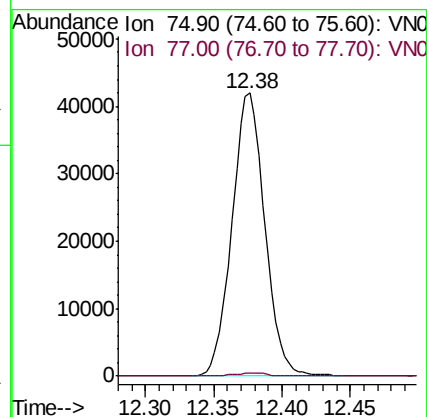
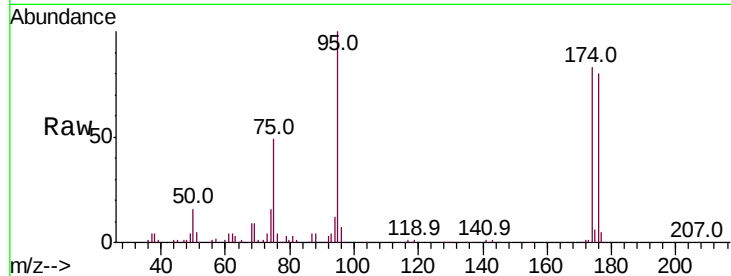
4S2-C-TOP

Tot Ion: 75 Resp: 70046

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.119 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

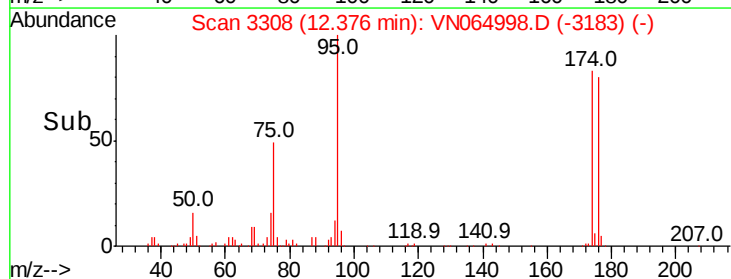
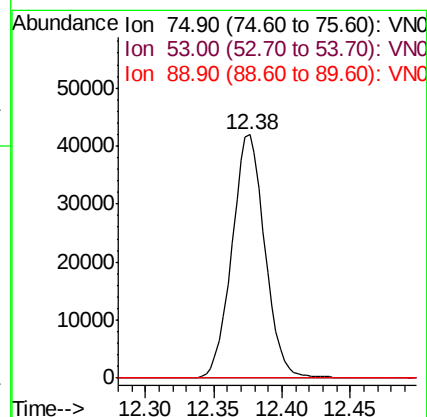
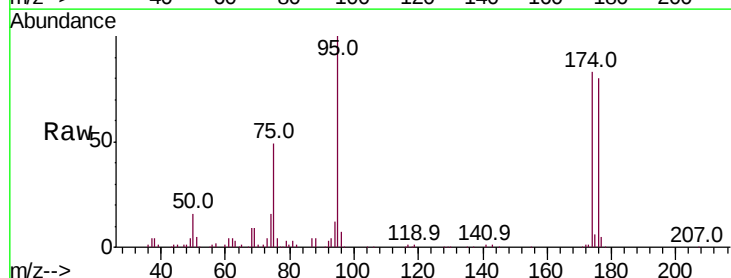
Tgt Ion: 75 Resp: 70046

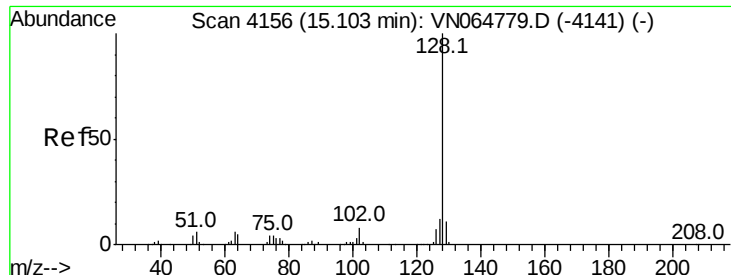
Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#





#95

Naphthalene

Concen: 0.280 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064998.D

Acq: 9 Dec 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

4S2-C-TOP

Tot Ion:128 Resp: 2395

Ion Ratio Lower Upper

128 100

127 8.3 10.3 15.5#

129 2.8 8.7 13.1#

