

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081420\
 Data File : VN062956.D
 Acq On : 15 Aug 2020 00:35
 Operator : JC/MD
 Sample : L3682-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 20200513-2801-A

Quant Time: Aug 17 09:33:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	191709	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	353066	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	377519	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	127283	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	159543	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	
35) Dibromofluoromethane	7.55	113	123122	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	
50) Toluene-d8	10.06	98	465382	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
62) 4-Bromofluorobenzene	12.38	95	161012	45.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.38%	

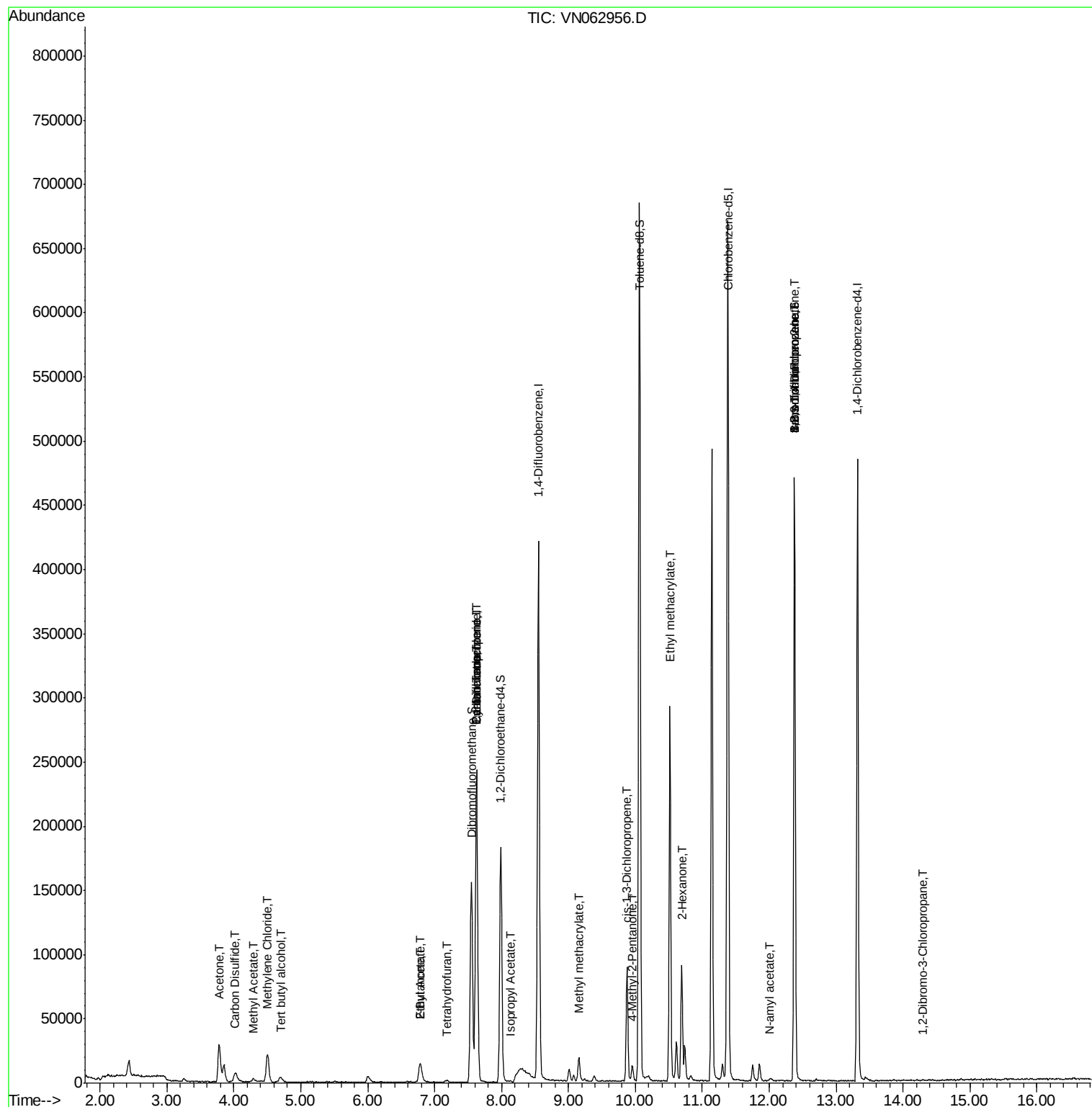
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	4193	8.070	ug/l #	72
16) Acetone	3.78	43	51632	45.072	ug/l	99
17) Carbon Disulfide	4.00	76	7470	0.696	ug/l	96
18) Methyl Acetate	4.29	43	5965	1.097	ug/l #	74
20) Methylene Chloride	4.50	84	16026	6.991	ug/l	97
25) 2-Butanone	6.80	43	11895	7.332	ug/l	92
29) Tetrahydrofuran	7.17	42	535	0.508	ug/l #	56
31) Cyclohexane	7.63	56	4504	1.172	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16494	4.798	ug/l #	51
37) Ethyl Acetate	6.80	43	11895	3.312	ug/l #	71
38) Carbon Tetrachloride	7.63	117	18792	4.622	ug/l #	15
43) Isopropyl Acetate	8.13	43	1820	0.304	ug/l #	61
48) Methyl methacrylate	9.15	41	4649	1.578	ug/l #	25
51) 4-Methyl-2-Pentanone	9.96	43	8628	2.226	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	14142	3.134	ug/l #	67
56) Ethyl methacrylate	10.52	69	2167	0.532	ug/l #	1
59) 2-Hexanone	10.69	43	69016	23.873	ug/l #	25
71) Bromoform	12.37	173	1457	0.562	ug/l #	1
74) N-amyl acetate	12.01	43	2178	0.561	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	84955	24.749	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	84955	75.551	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.29	75	256	0.353	ug/l #	10

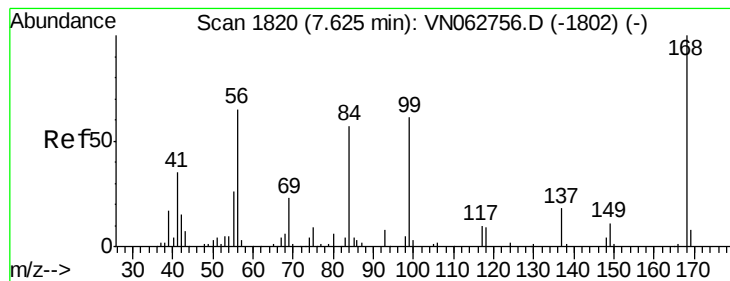
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:26:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

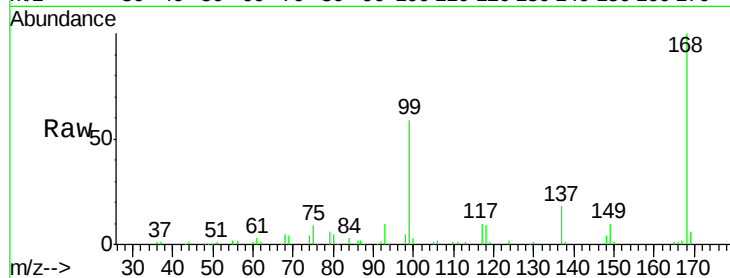
20200513-2801-A

Tgt Ion:168 Resp: 191709

Ion Ratio Lower Upper

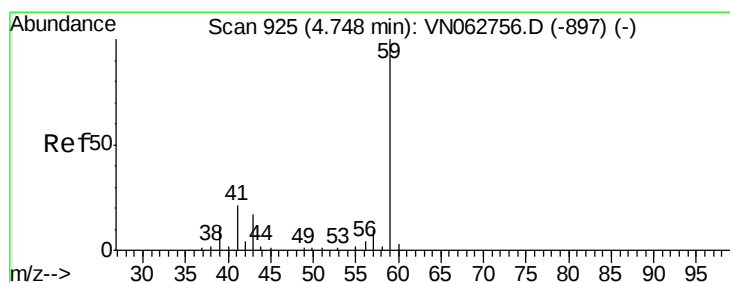
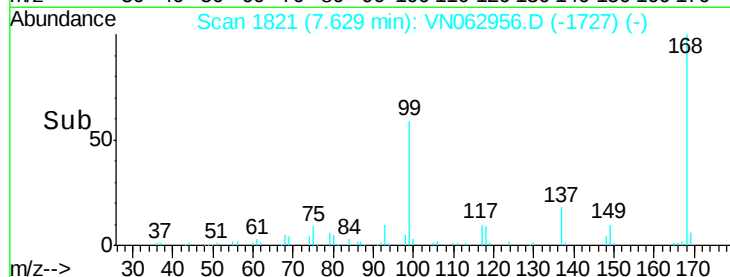
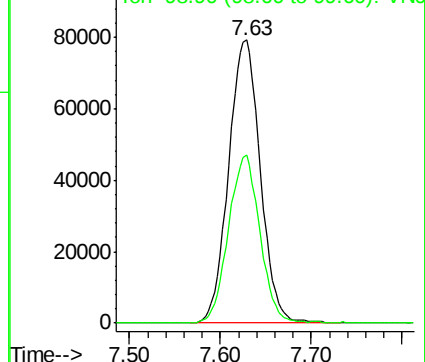
168 100

99 59.2 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 8.070 ug/l

RT: 4.70 min Scan# 910

Delta R.T. -0.05 min

Lab File: VN062956.D

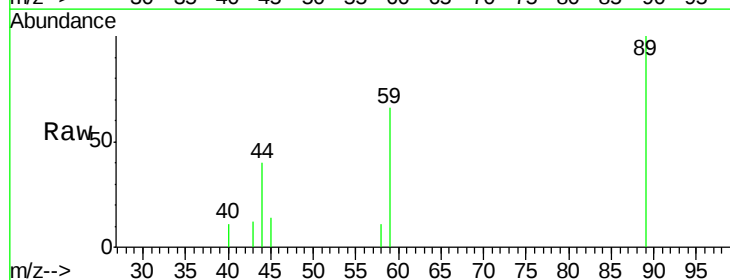
Acq: 15 Aug 2020 00:35

Tgt Ion: 59 Resp: 4193

Ion Ratio Lower Upper

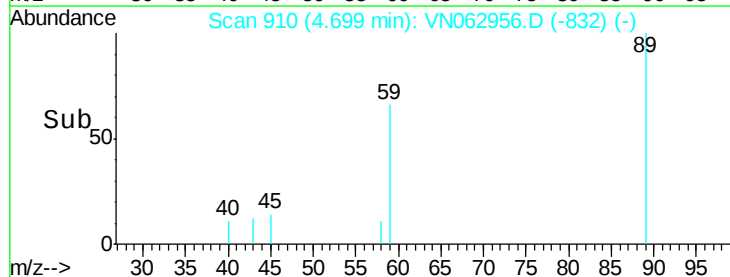
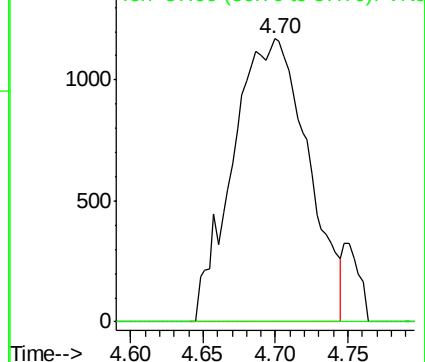
59 100

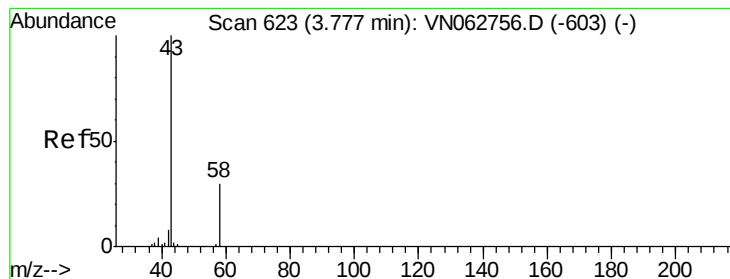
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 45.072 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

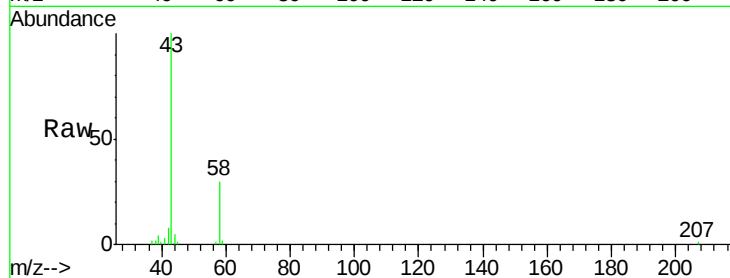
20200513-2801-A

Tgt Ion: 43 Resp: 51632

Ion Ratio Lower Upper

43 100

58 29.5 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN062956.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN062956.D (-530) (-)

3.78

20000

15000

10000

5000

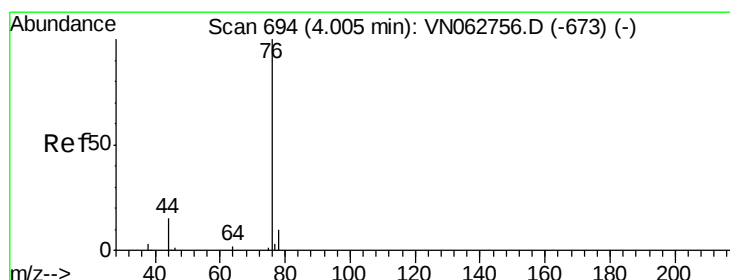
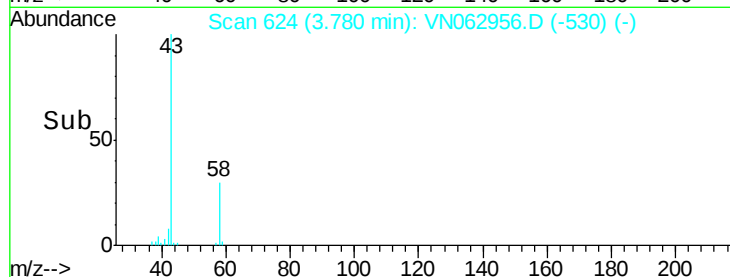
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Time-->

3.70

3.80

3.90



#17

Carbon Disulfide

Concen: 0.696 ug/l

RT: 4.00 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN062956.D

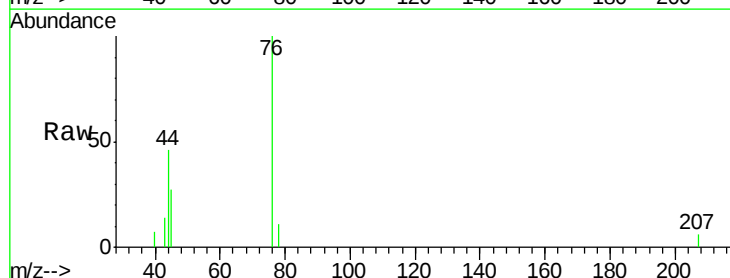
Acq: 15 Aug 2020 00:35

Tgt Ion: 76 Resp: 7470

Ion Ratio Lower Upper

76 100

78 11.0 7.7 11.5



Abundance Ion 75.90 (75.60 to 76.60): VN062956.D (-600) (-)

Ion 77.90 (77.60 to 78.60): VN062956.D (-600) (-)

4.00

3000

2500

2000

1500

1000

500

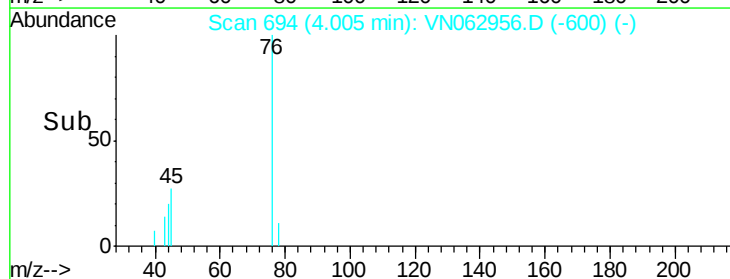
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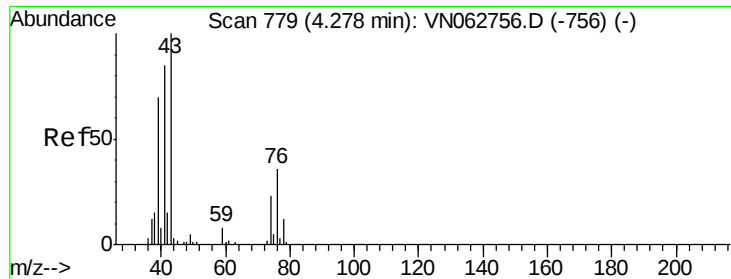
Time-->

3.95

4.00

4.05

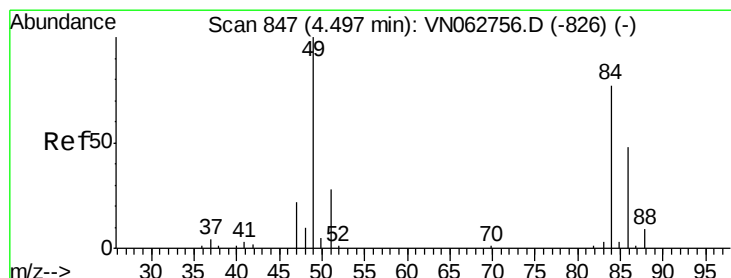
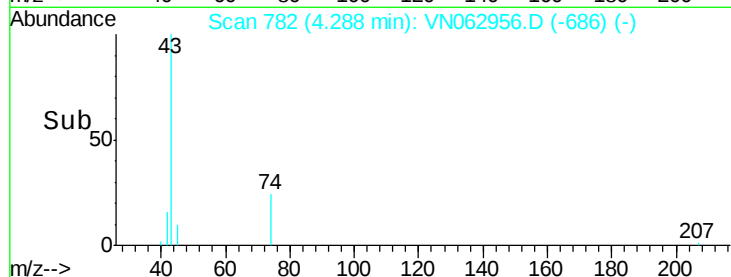
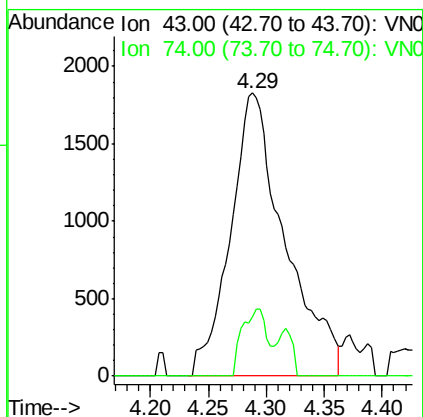
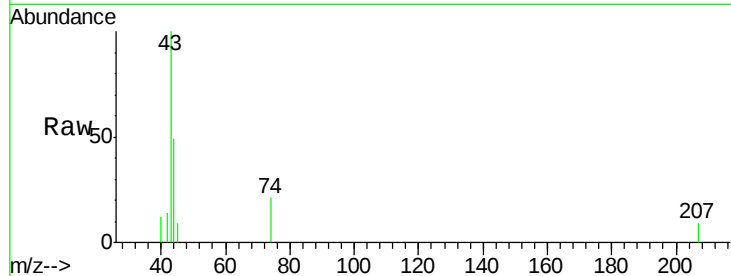




#18
Methyl Acetate
Concen: 1.097 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

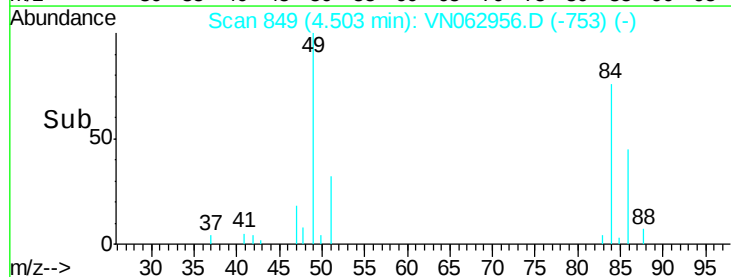
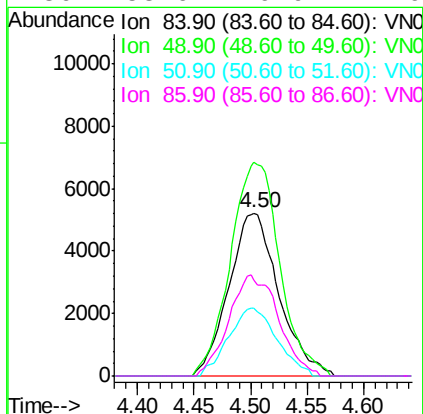
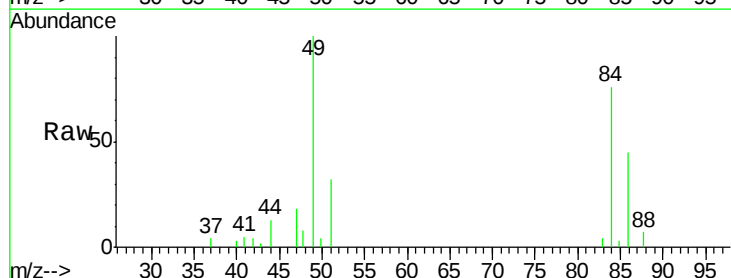
Instrument :
MSVOA_N
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20200513-2801-A

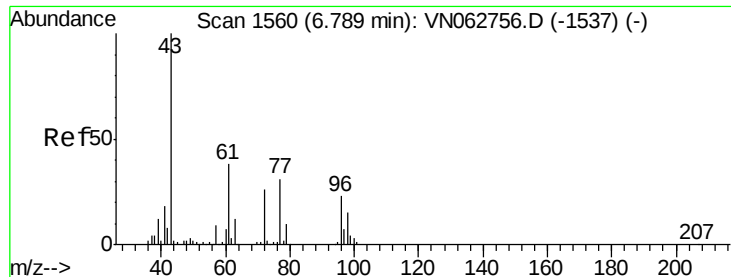
Tgt Ion: 43 Resp: 5965
Ion Ratio Lower Upper
43 100
74 10.5 18.6 28.0#



#20
Methylene Chloride
Concen: 6.991 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.01 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Tgt Ion: 84 Resp: 16026
Ion Ratio Lower Upper
84 100
49 131.0 103.4 155.2
51 41.4 29.3 43.9
86 58.6 49.9 74.9

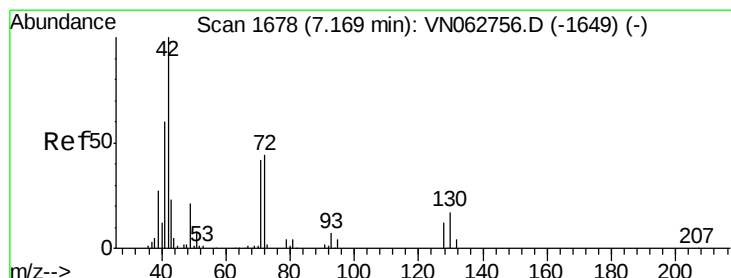
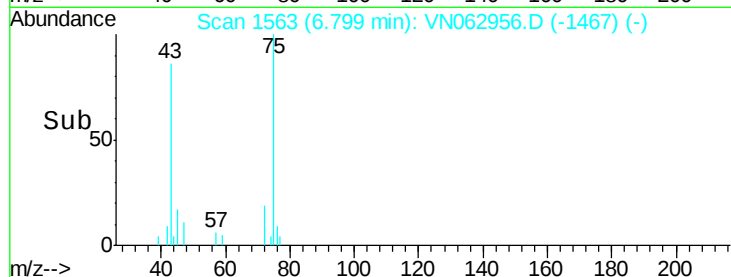
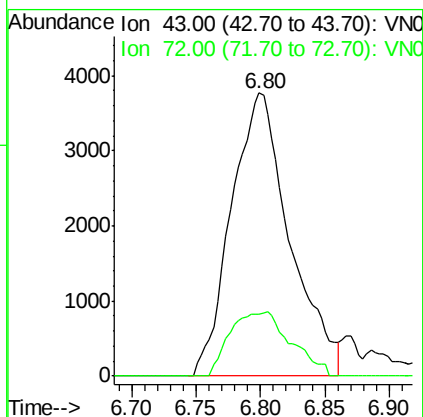
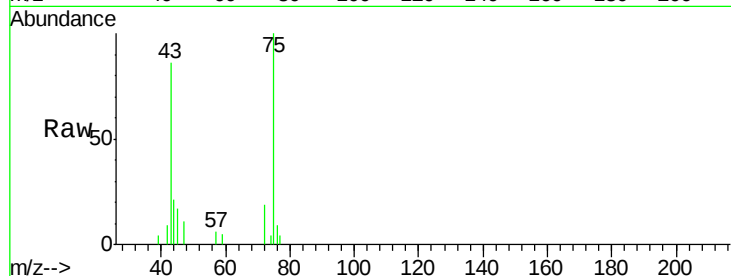




#25
2-Butanone
Concen: 7.332 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

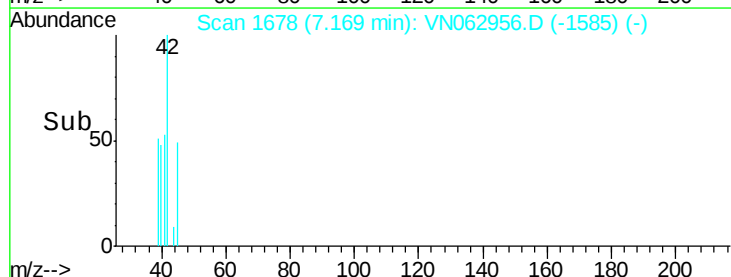
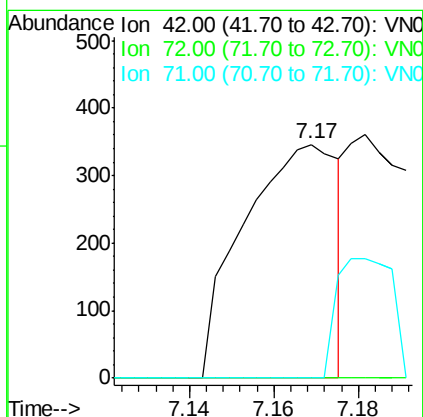
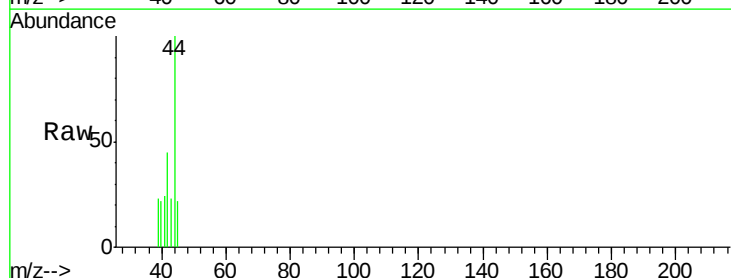
Instrument :
MSVOA_N
ClientSampleId :
20200513-2801-A

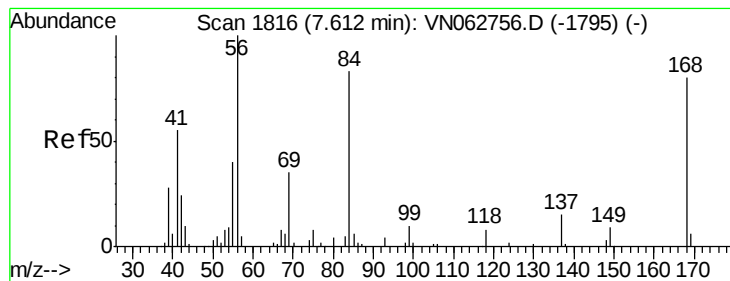
Tgt Ion: 43 Resp: 11895
Ion Ratio Lower Upper
43 100
72 22.1 21.1 31.7



#29
Tetrahydrofuran
Concen: 0.508 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Tgt Ion: 42 Resp: 535
Ion Ratio Lower Upper
42 100
72 0.0 35.0 52.4#
71 30.1 33.2 49.8#





#31

Cyclohexane

Concen: 1.172 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

20200513-2801-A

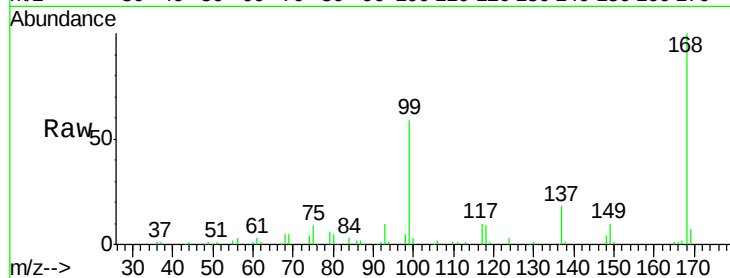
Tgt Ion: 56 Resp: 4504

Ion Ratio Lower Upper

56 100

69 184.1 28.1 42.1#

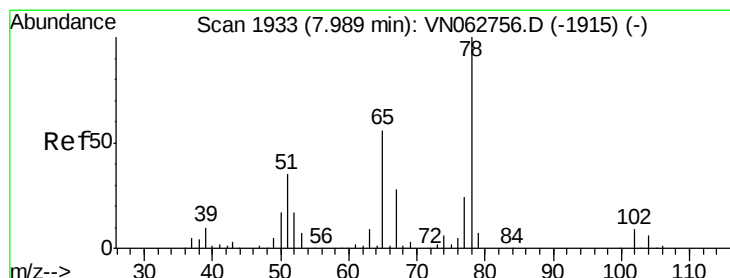
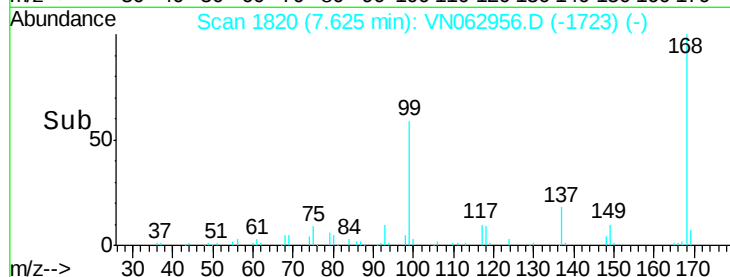
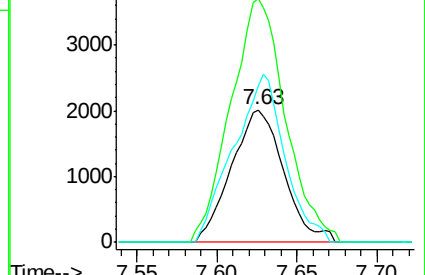
84 118.5 66.8 100.2#



Abundance Ion 56.00 (55.70 to 56.70): VN062756.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN062756.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN062756.D (-1795) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.325 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062956.D

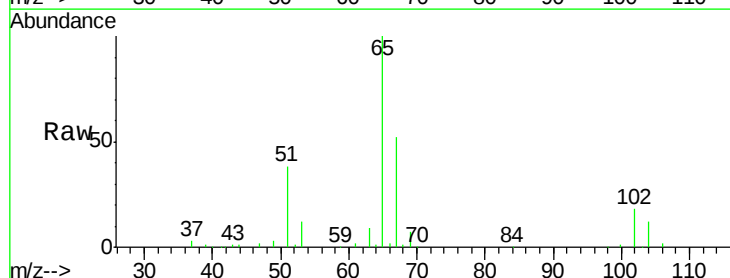
Acq: 15 Aug 2020 00:35

Tgt Ion: 65 Resp: 159543

Ion Ratio Lower Upper

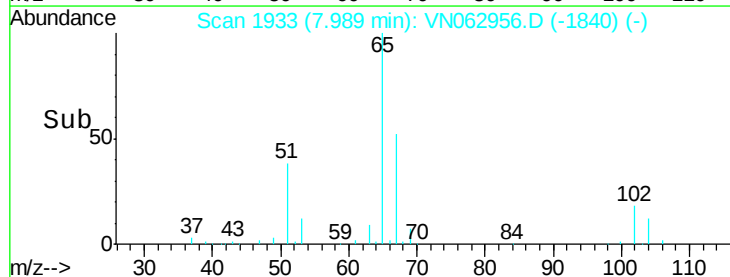
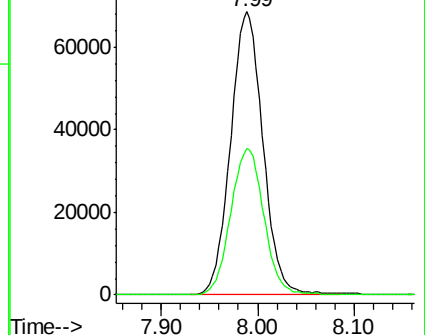
65 100

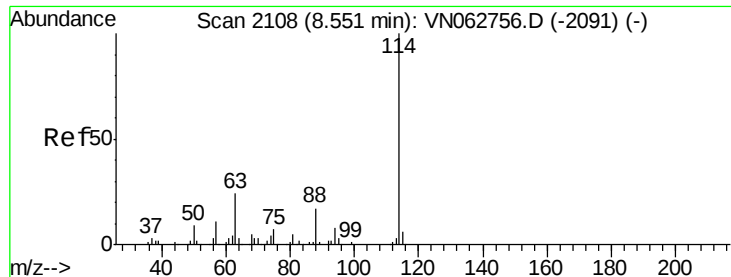
67 52.9 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN062756.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN062756.D (-1915) (-)

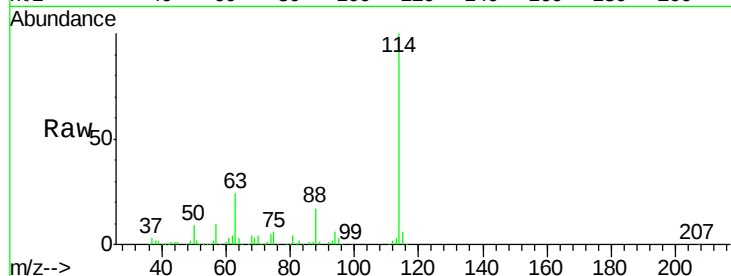




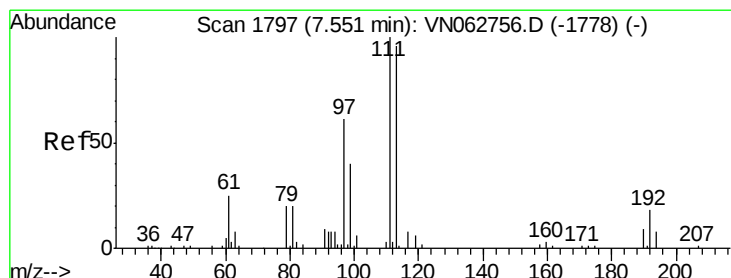
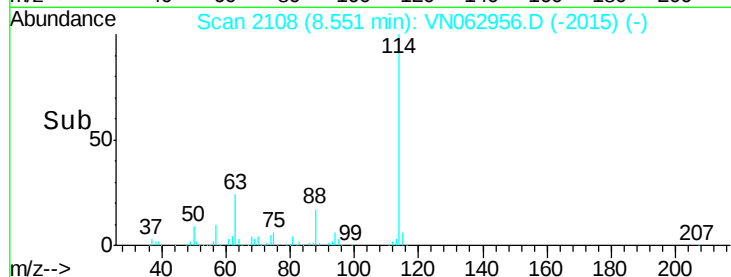
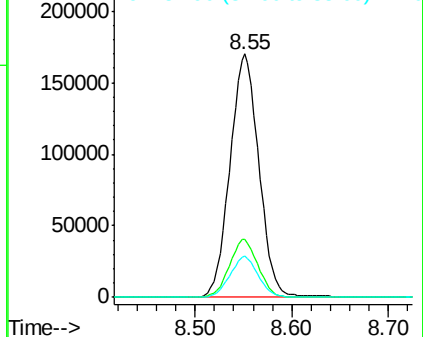
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062956.D
 Acq: 15 Aug 2020 00:35

Instrument :
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Tgt Ion:114 Resp: 353066
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 47.6
 88 17.0 0.0 34.4

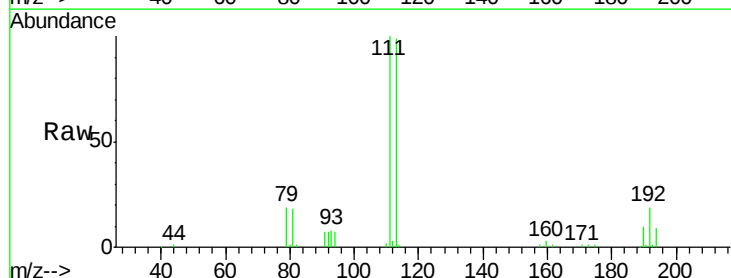


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

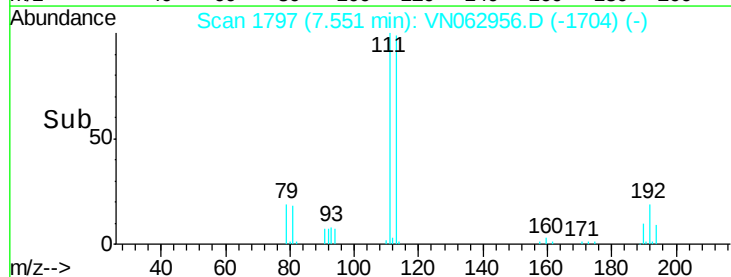
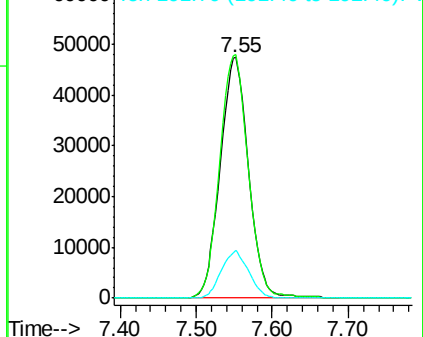


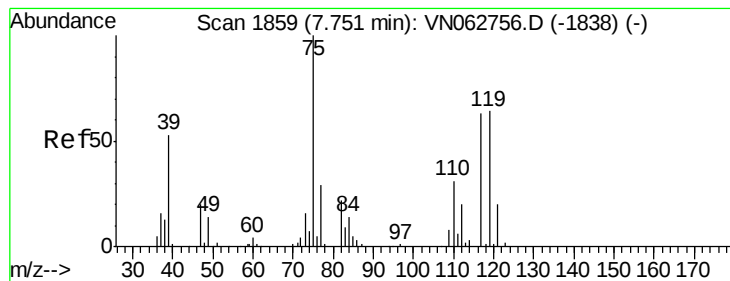
#35
 Dibromofluoromethane
 Concen: 50.979 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062956.D
 Acq: 15 Aug 2020 00:35

Tgt Ion:113 Resp: 123122
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.8 122.6
 192 19.0 15.0 22.4



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

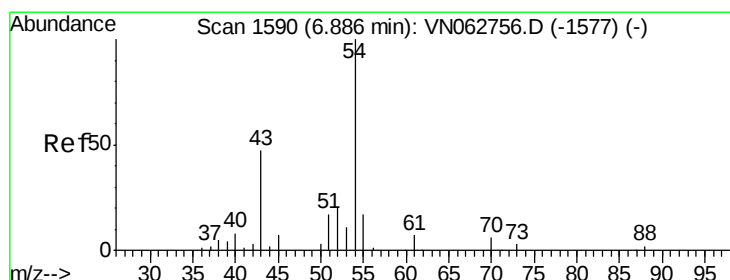
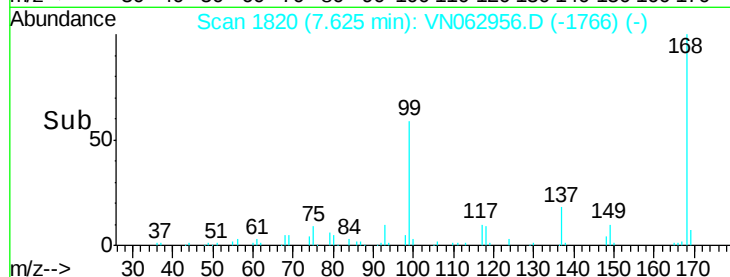
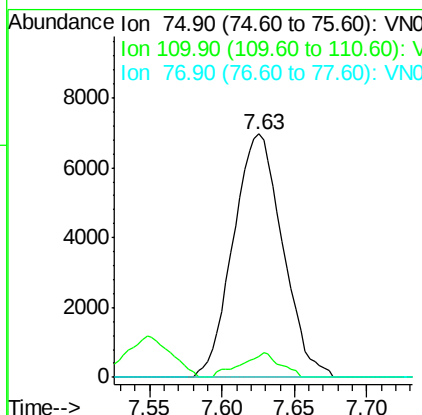
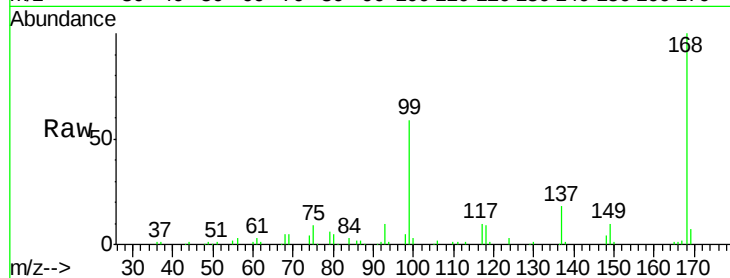




#36
 1,1-Dichloropropene
 Concen: 4.798 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062956.D
 Acq: 15 Aug 2020 00:35

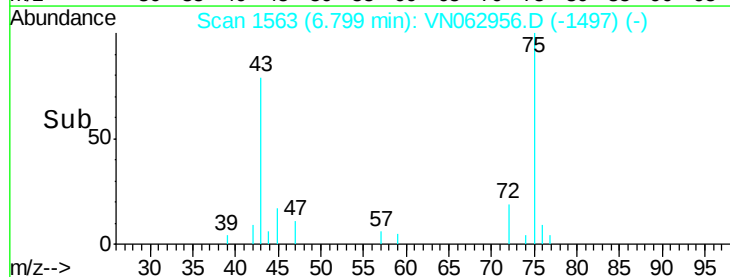
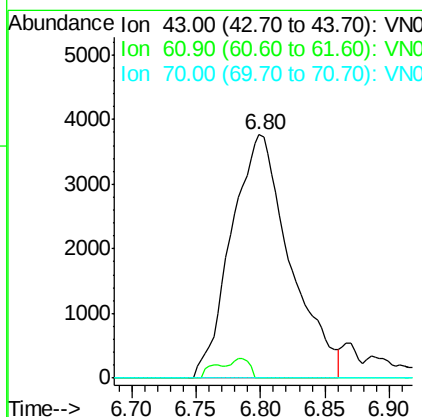
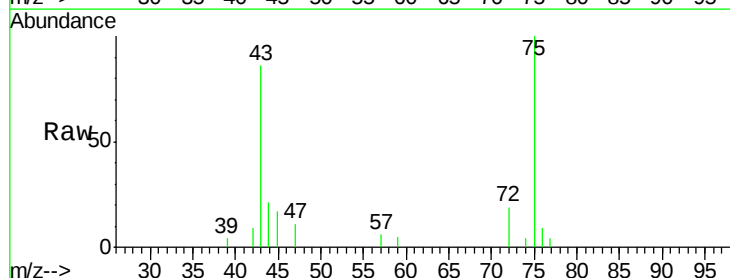
Instrument :
 MSVOA_N
 ClientSampleId :
 20200513-2801-A

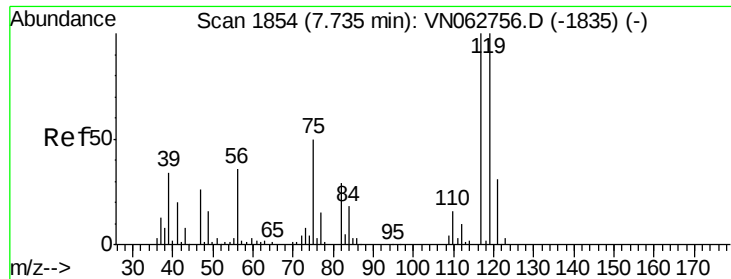
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	15.6	46.7#
77	0.0	24.1	36.1#



#37
 Ethyl Acetate
 Concen: 3.312 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.09 min
 Lab File: VN062956.D
 Acq: 15 Aug 2020 00:35

Tgt Ion	Ratio	Lower	Upper
43	100		
61	2.5	12.1	18.1#
70	0.0	8.3	12.5#

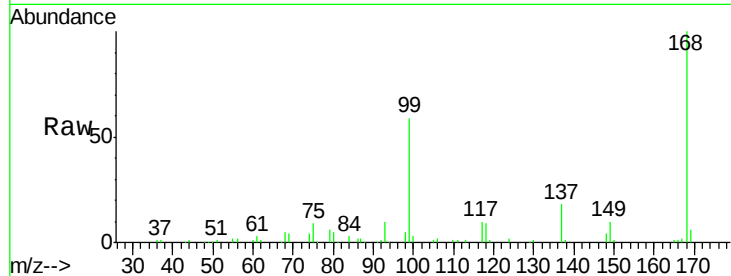




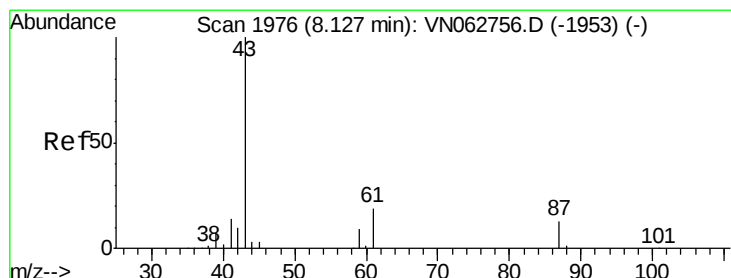
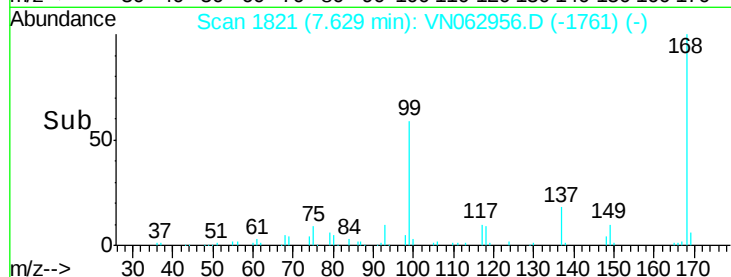
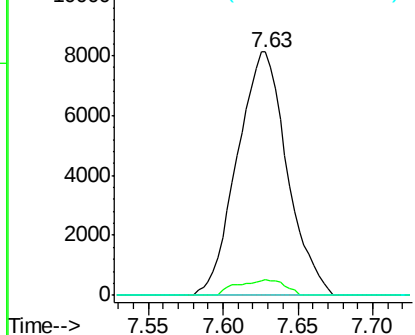
#38
Carbon Tetrachloride
Concen: 4.622 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.11 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Instrument :
MSVOA_N
ClientSampleId :
20200513-2801-A

Tgt Ion: 117 Resp: 18792
Ion Ratio Lower Upper
117 100
119 6.3 79.4 119.2#
121 0.0 24.9 37.3#

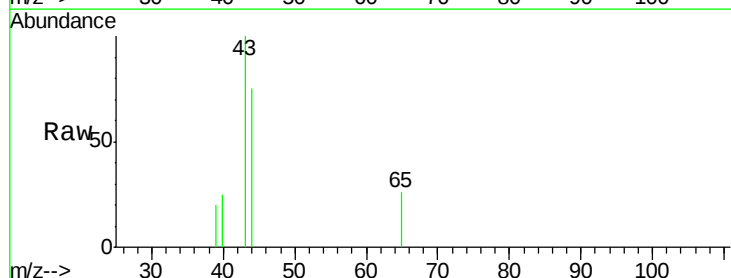


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

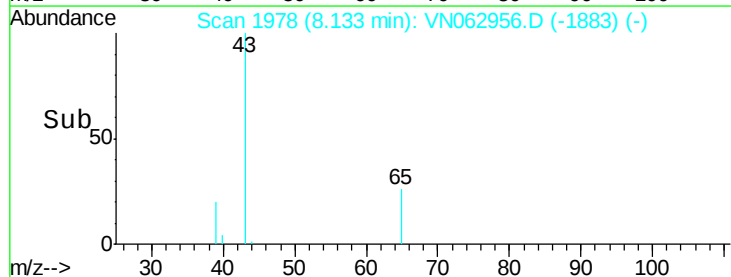
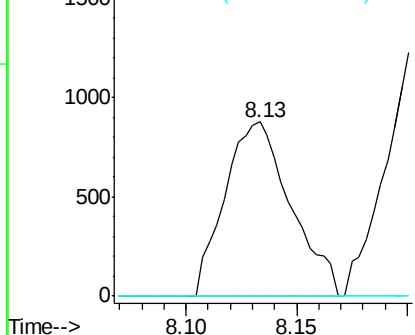


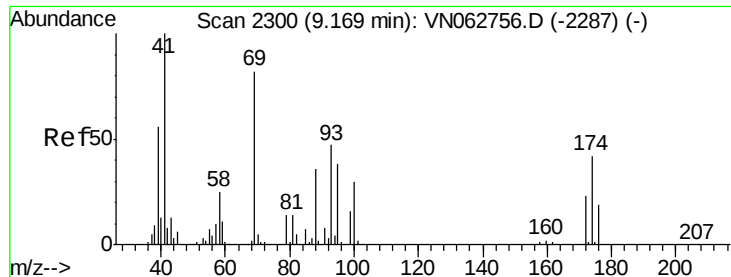
#43
Isopropyl Acetate
Concen: 0.304 ug/l
RT: 8.13 min Scan# 1978
Delta R.T. 0.01 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Tgt Ion: 43 Resp: 1820
Ion Ratio Lower Upper
43 100
61 0.0 15.8 23.6#
87 0.0 9.9 14.9#



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

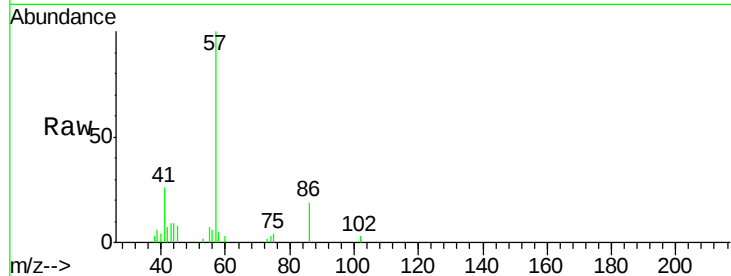




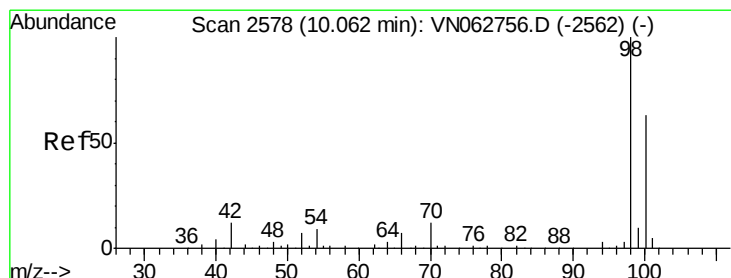
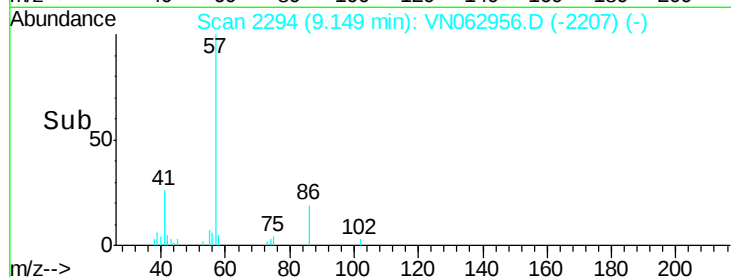
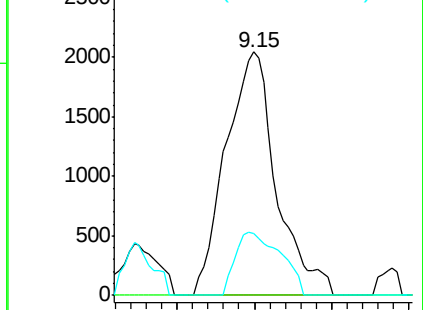
#48
Methyl methacrylate
Concen: 1.578 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Instrument :
MSVOA_N
ClientSampleId :
20200513-2801-A

Tgt Ion: 41 Resp: 4649
Ion Ratio Lower Upper
41 100
69 0.0 67.4 101.2#
39 22.8 47.6 71.4#

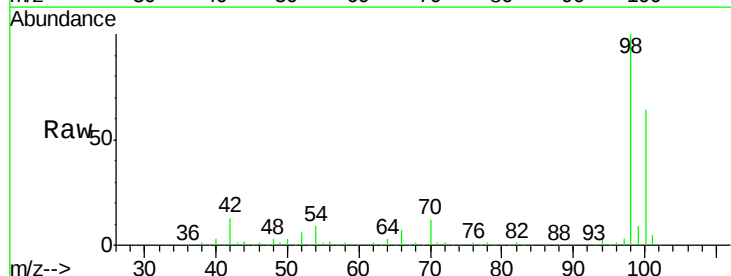


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

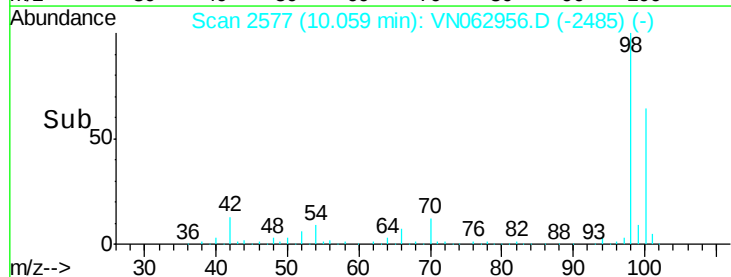
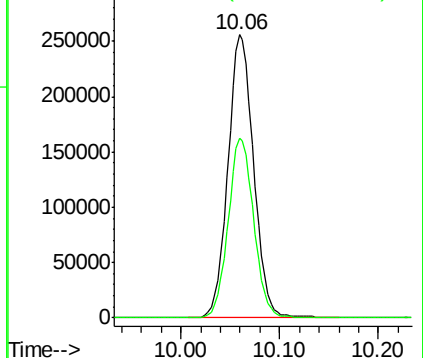


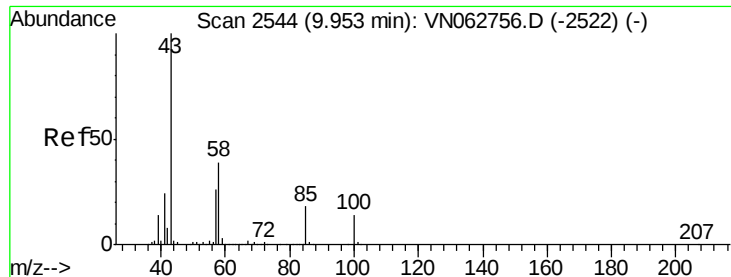
#50
Toluene-d8
Concen: 49.356 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Tgt Ion: 98 Resp: 465382
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.226 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

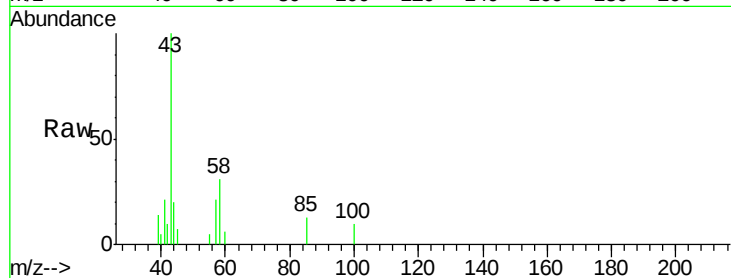
20200513-2801-A

Tgt Ion: 43 Resp: 8628

Ion Ratio Lower Upper

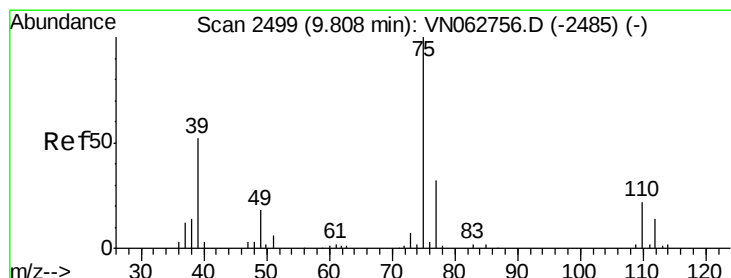
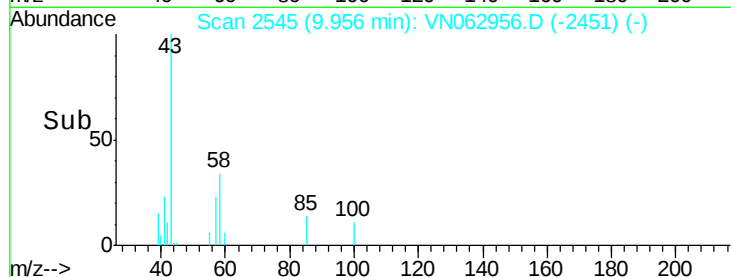
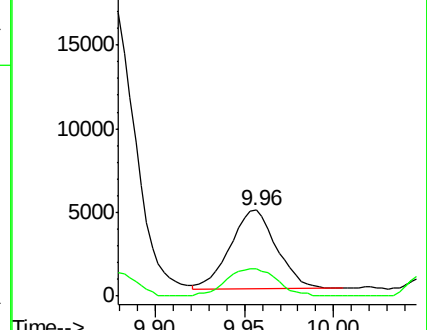
43 100

58 38.0 31.1 46.7



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062756.D (-2522) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.134 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

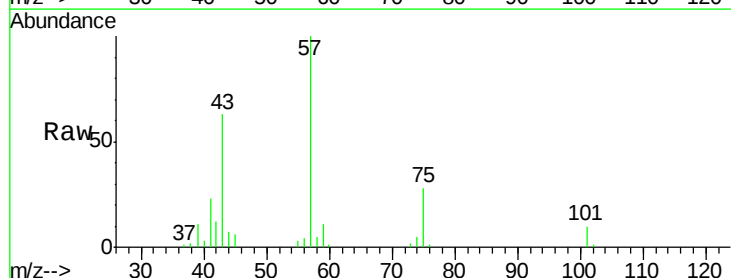
Tgt Ion: 75 Resp: 14142

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

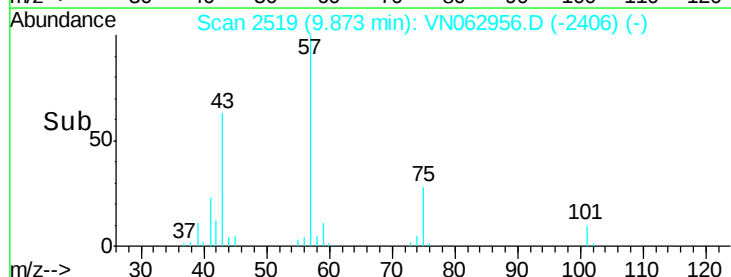
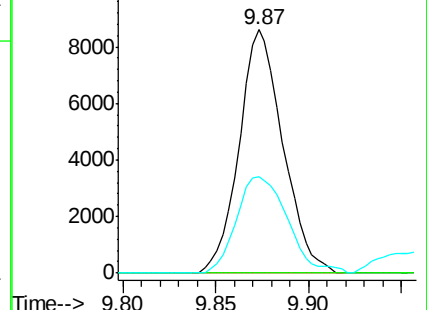
39 39.7 41.9 62.9#

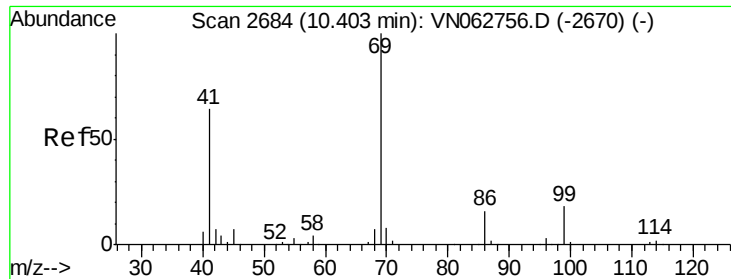


Abundance Ion 74.90 (74.60 to 75.60): VN062756.D (-2485) (-)

Ion 76.90 (76.60 to 77.60): VN062756.D (-2485) (-)

Ion 39.00 (38.70 to 39.70): VN062756.D (-2485) (-)





#56

Ethyl methacrylate

Concen: 0.532 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.11 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

20200513-2801-A

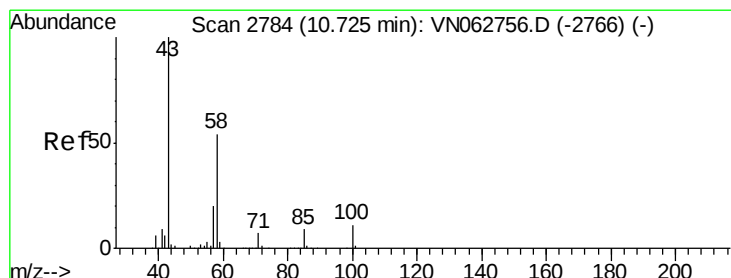
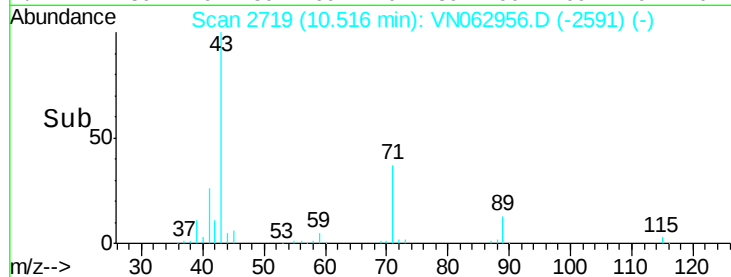
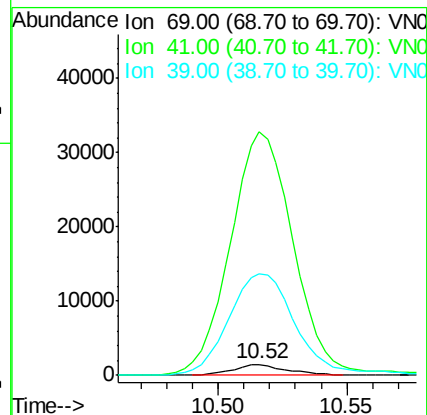
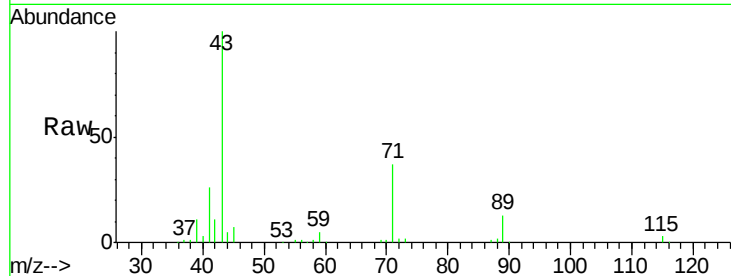
Tgt Ion: 69 Resp: 2167

Ion Ratio Lower Upper

69 100

41 2585.0 52.2 78.2#

39 1144.3 30.9 46.3#



#59

2-Hexanone

Concen: 23.873 ug/l

RT: 10.69 min Scan# 2774

Delta R.T. -0.03 min

Lab File: VN062956.D

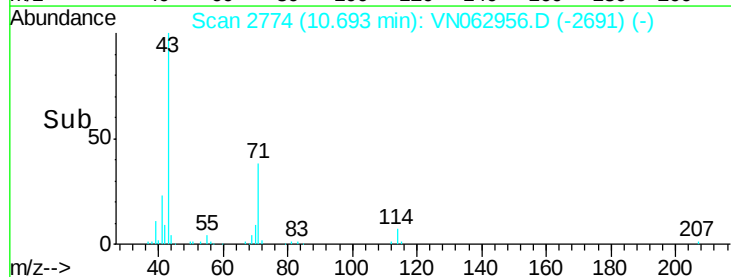
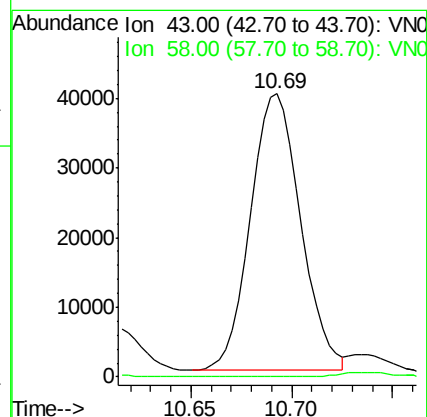
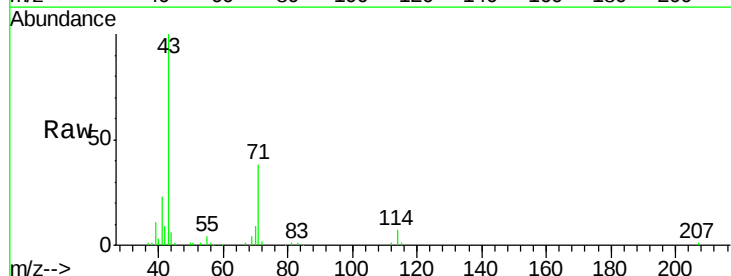
Acq: 15 Aug 2020 00:35

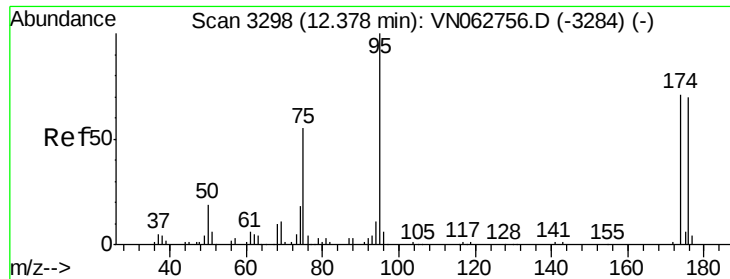
Tgt Ion: 43 Resp: 69016

Ion Ratio Lower Upper

43 100

58 0.0 26.7 80.1#

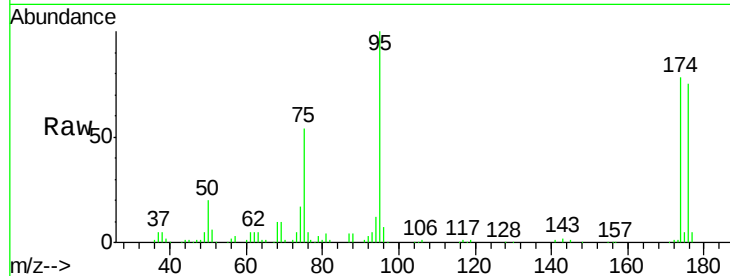




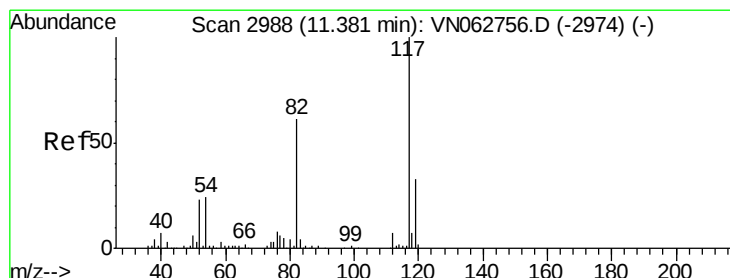
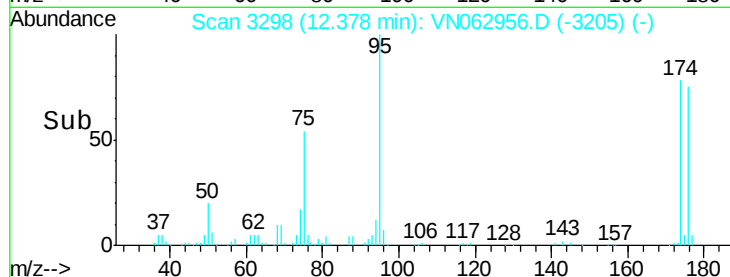
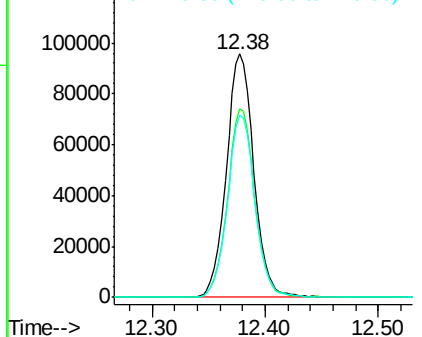
#62
4-Bromofluorobenzene
Concen: 45.187 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Instrument :
MSVOA_N
ClientSampleId :
20200513-2801-A

Tgt Ion: 95 Resp: 161012
Ion Ratio Lower Upper
95 100
174 76.8 0.0 144.8
176 74.9 0.0 142.2

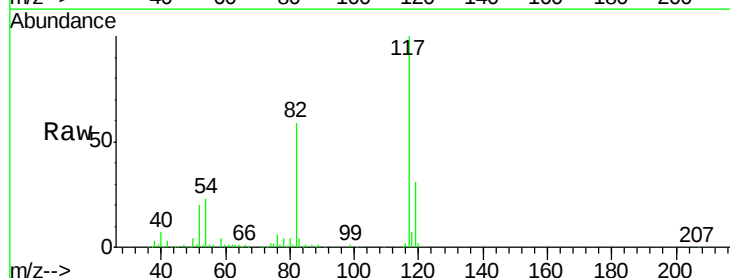


Abundance Ion 94.90 (94.60 to 95.60): VN062756.D (-3284) (-)
Ion 173.80 (173.50 to 174.50): VN062756.D (-3284) (-)
Ion 175.80 (175.50 to 176.50): VN062756.D (-3284) (-)

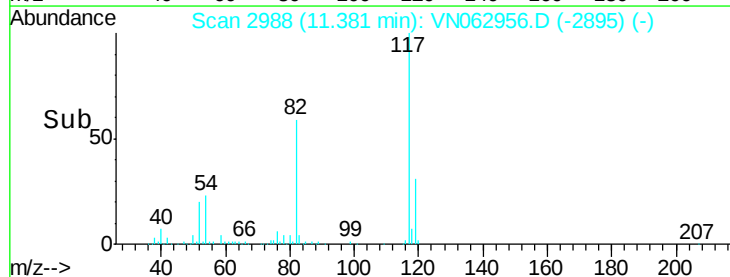
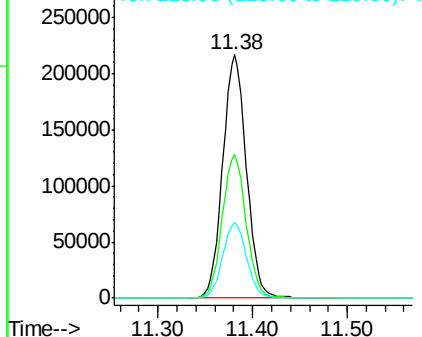


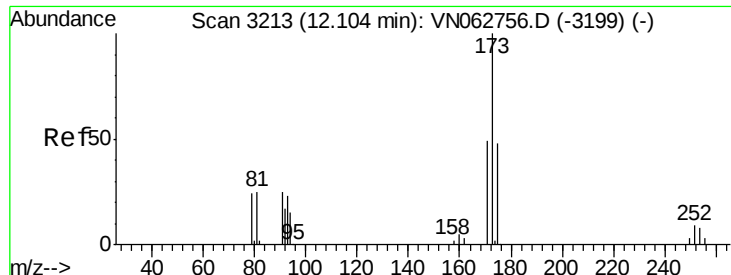
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Tgt Ion: 117 Resp: 377519
Ion Ratio Lower Upper
117 100
82 58.9 49.0 73.4
119 31.0 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): VN062756.D (-2974) (-)
Ion 82.00 (81.70 to 82.70): VN062756.D (-2974) (-)
Ion 118.90 (118.60 to 119.60): VN062756.D (-2974) (-)

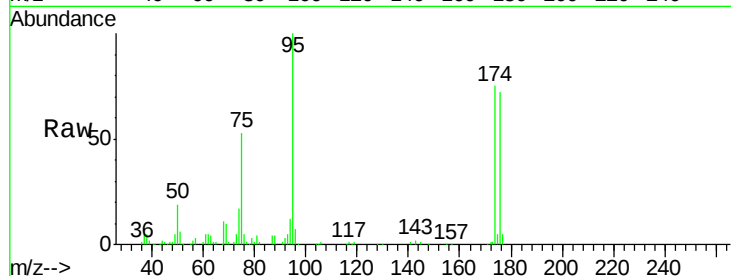




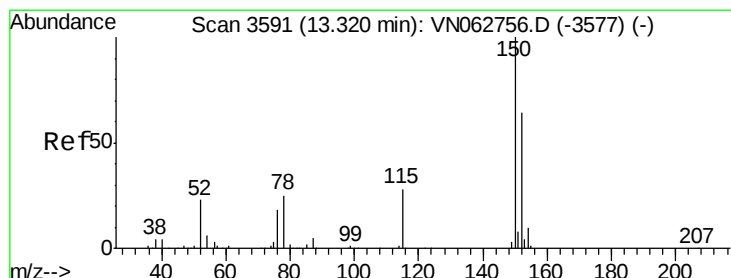
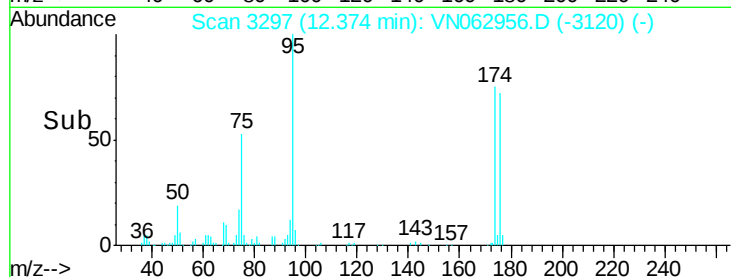
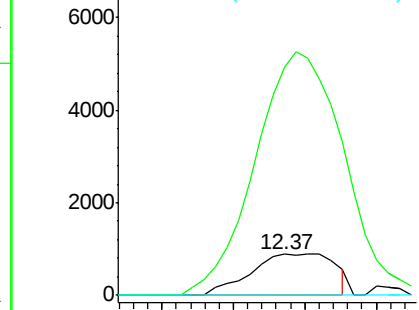
#71
Bromoform
Concen: 0.562 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Instrument :
MSVOA_N
ClientSampleId :
20200513-2801-A

Tgt Ion:173 Resp: 1457
Ion Ratio Lower Upper
173 100
175 549.8 24.0 72.0#
254 0.0 0.0 0.0

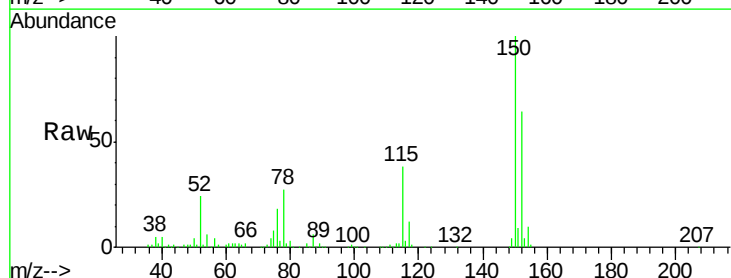


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

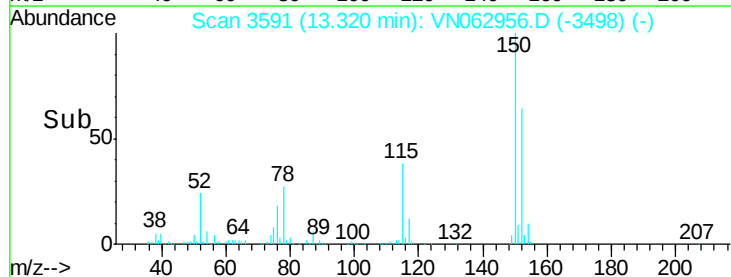
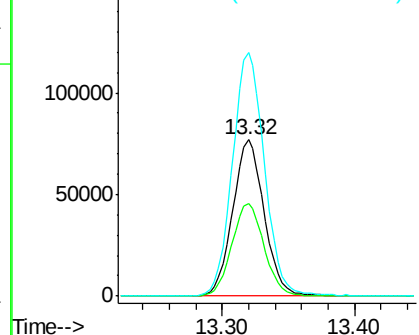


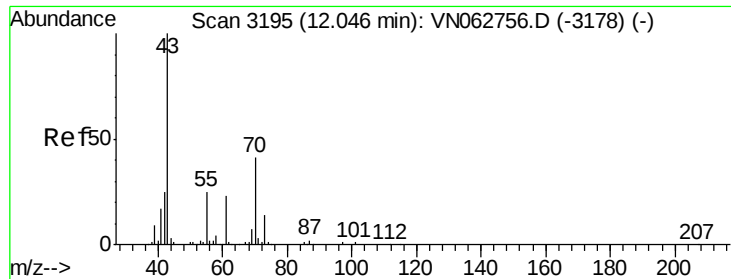
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062956.D
Acq: 15 Aug 2020 00:35

Tgt Ion:152 Resp: 127283
Ion Ratio Lower Upper
152 100
115 60.8 31.6 94.8
150 158.1 0.0 349.2



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: 0.561 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

20200513-2801-A

Tgt Ion: 43 Resp: 2178

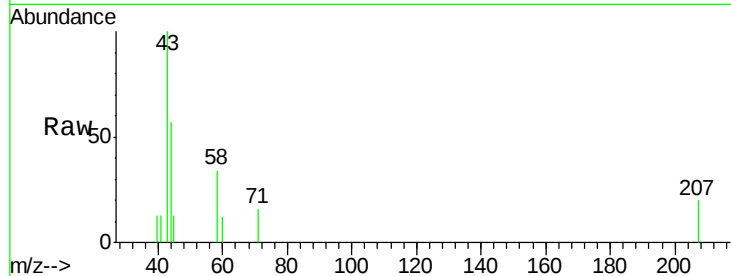
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#

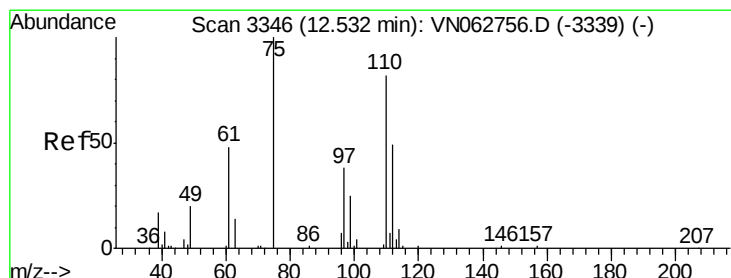
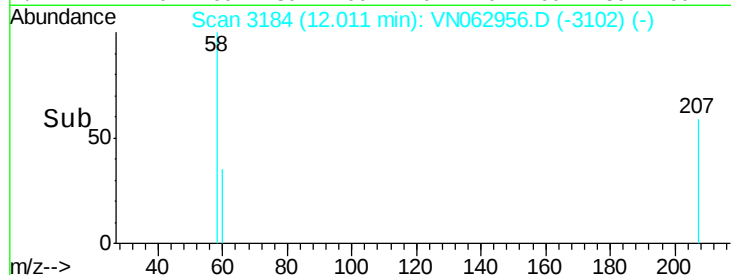
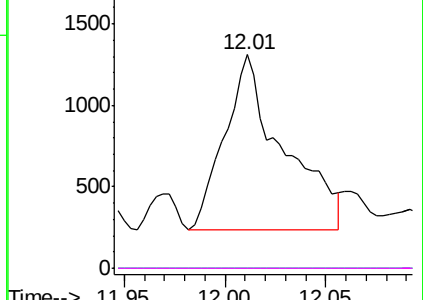


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.749 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062956.D

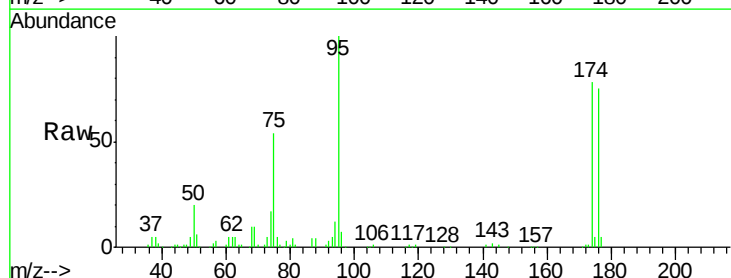
Acq: 15 Aug 2020 00:35

Tgt Ion: 75 Resp: 84955

Ion Ratio Lower Upper

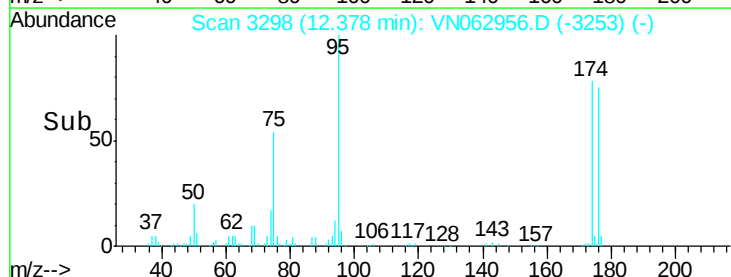
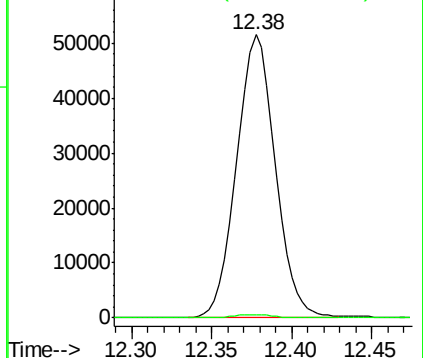
75 100

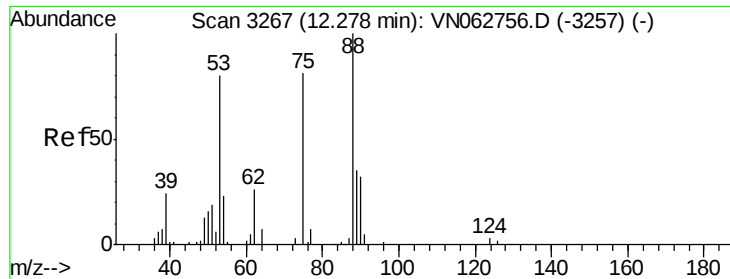
77 1.1 0.0 0.0#



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: 75.551 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

20200513-2801-A

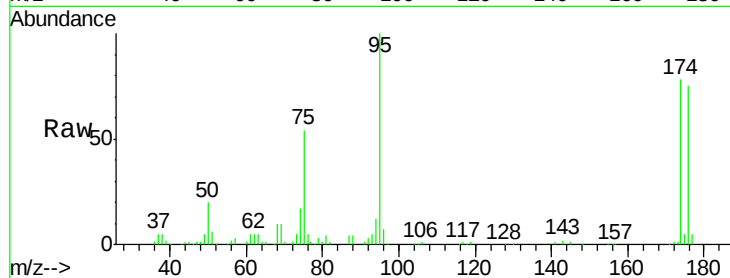
Tgt Ion: 75 Resp: 84955

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

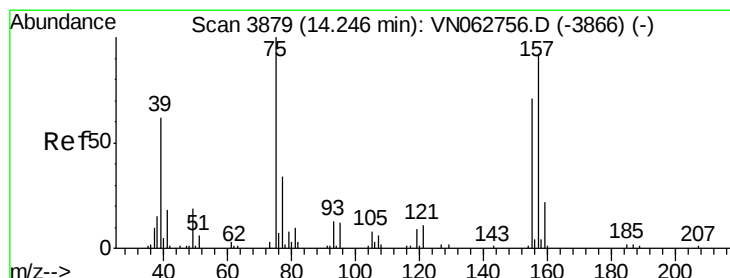
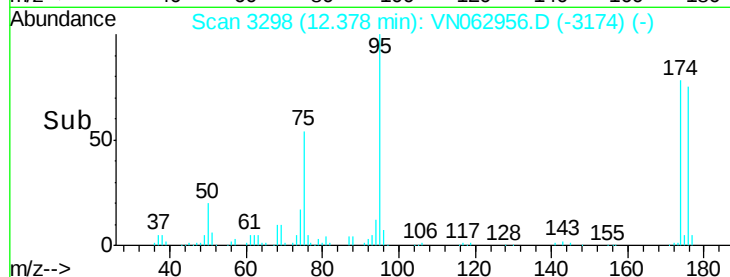
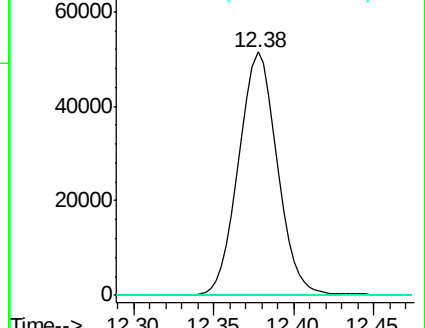
89 0.0 36.2 54.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.353 ug/l

RT: 14.29 min Scan# 3893

Delta R.T. 0.05 min

Lab File: VN062956.D

Acq: 15 Aug 2020 00:35

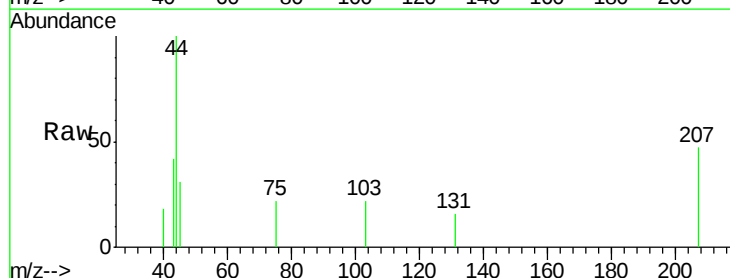
Tgt Ion: 75 Resp: 256

Ion Ratio Lower Upper

75 100

155 0.0 35.0 105.1#

157 0.0 43.2 129.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

