

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081420\
 Data File : VN062958.D
 Acq On : 15 Aug 2020 1:23
 Operator : JC/MD
 Sample : L3659-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-1

Quant Time: Aug 17 09:33:28 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	164681	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	347617	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	321782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	134240	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	149517	54.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.80%	
35) Dibromofluoromethane	7.55	113	106564	44.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.62%	
50) Toluene-d8	10.06	98	469814	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
62) 4-Bromofluorobenzene	12.38	95	164781	46.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.94%	

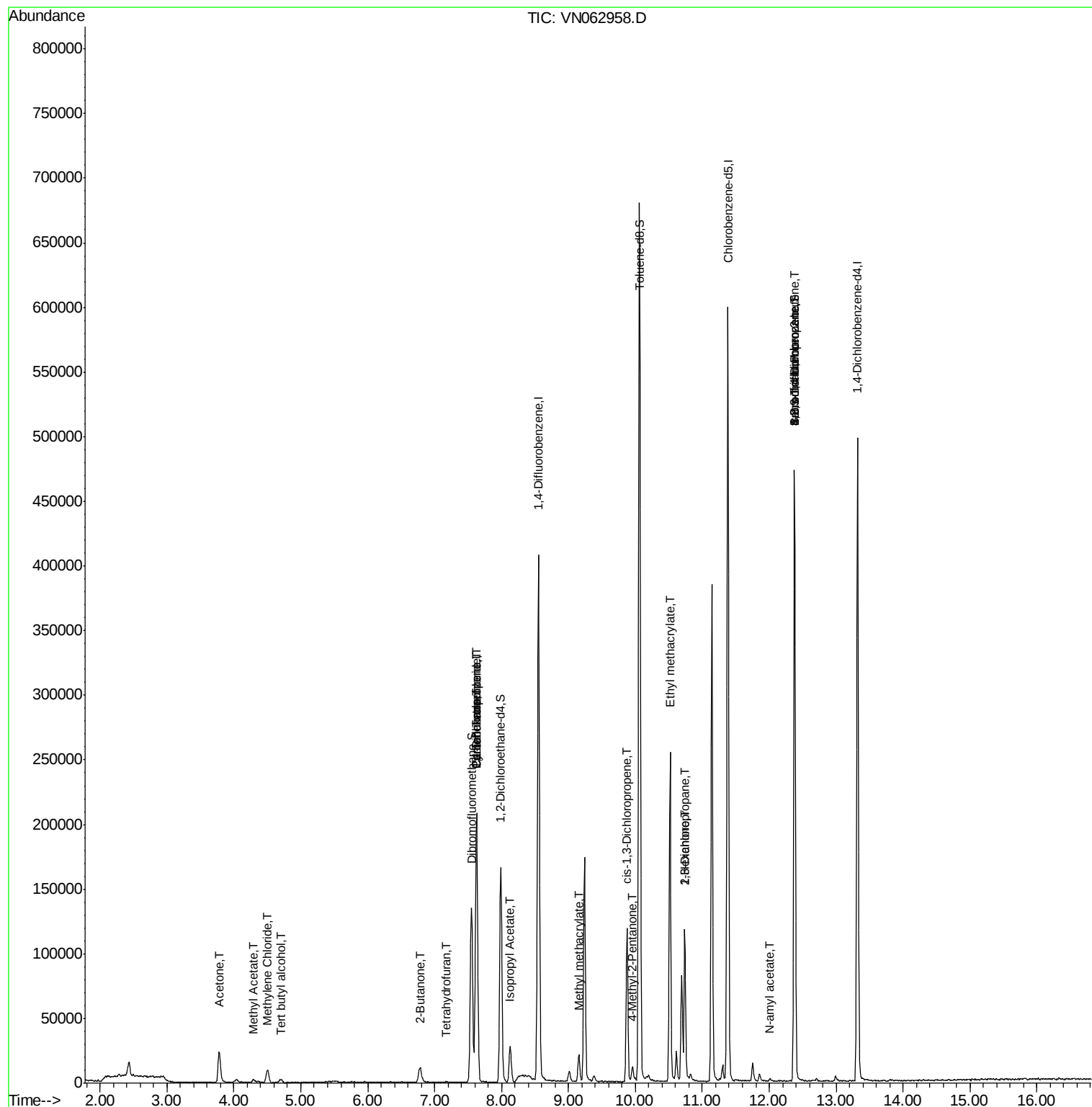
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	1492	3.343	ug/l #	72
16) Acetone	3.78	43	40063	40.713	ug/l	97
18) Methyl Acetate	4.28	43	4711	0.915	ug/l #	67
20) Methylene Chloride	4.51	84	7628	3.529	ug/l	91
25) 2-Butanone	6.80	43	4157	2.983	ug/l	94
29) Tetrahydrofuran	7.17	42	293	0.324	ug/l #	41
31) Cyclohexane	7.63	56	3744	1.134	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	13745	4.061	ug/l #	46
38) Carbon Tetrachloride	7.63	117	17075	4.265	ug/l #	16
43) Isopropyl Acetate	8.13	43	34288	5.814	ug/l	99
48) Methyl methacrylate	9.15	41	2699	0.930	ug/l #	26
51) 4-Methyl-2-Pentanone	9.96	43	7289	1.910	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	19827	4.463	ug/l #	64
56) Ethyl methacrylate	10.52	69	1891	0.472	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1065	0.235	ug/l #	43
59) 2-Hexanone	10.74	43	15039	5.284	ug/l #	60
71) Bromoform	12.38	173	1688	0.764	ug/l #	1
74) N-amyl acetate	12.01	43	1470	0.359	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	86065	23.773	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	86065	72.572	ug/l #	10

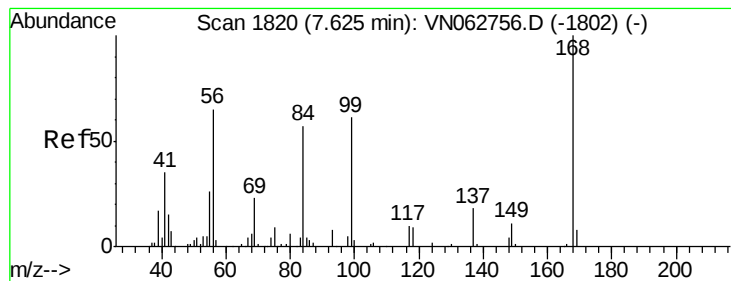
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:26:42 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

Instrument :

MSVOA_N

ClientSampleId :

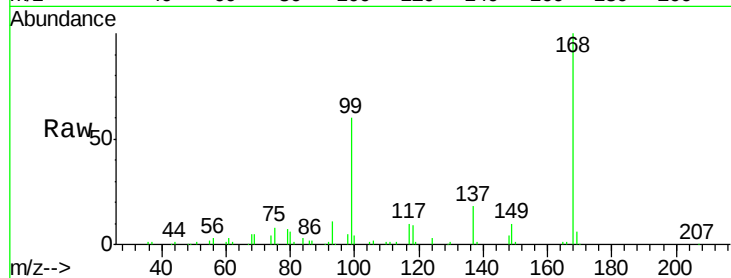
SP1-1

Tgt Ion:168 Resp: 164681

Ion Ratio Lower Upper

168 100

99 59.9 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

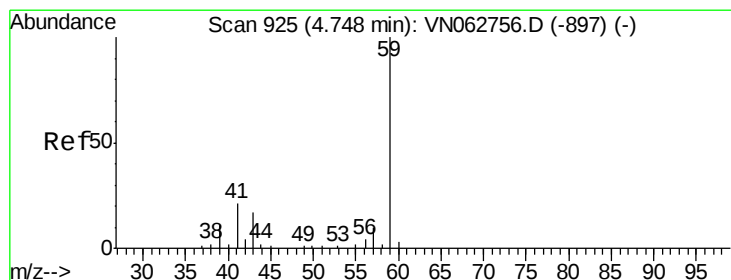
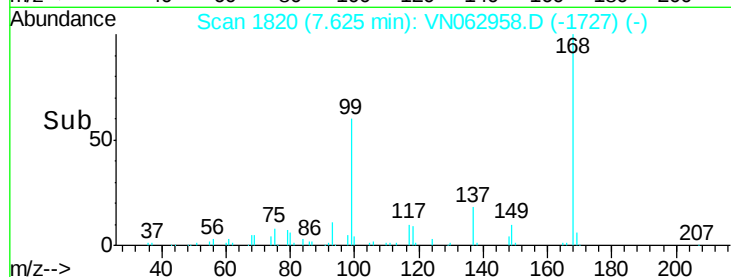
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 3.343 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.05 min

Lab File: VN062958.D

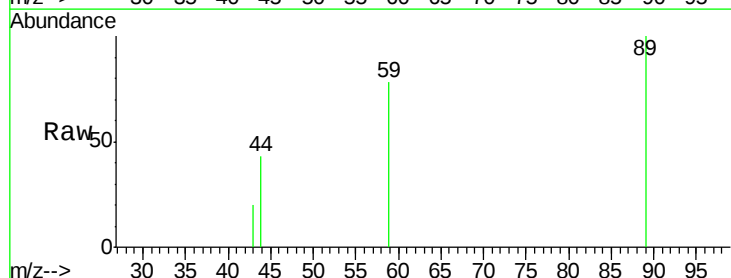
Acq: 15 Aug 2020 1:23

Tgt Ion: 59 Resp: 1492

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.69

800

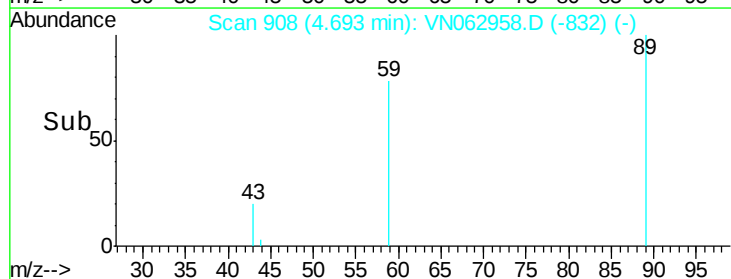
600

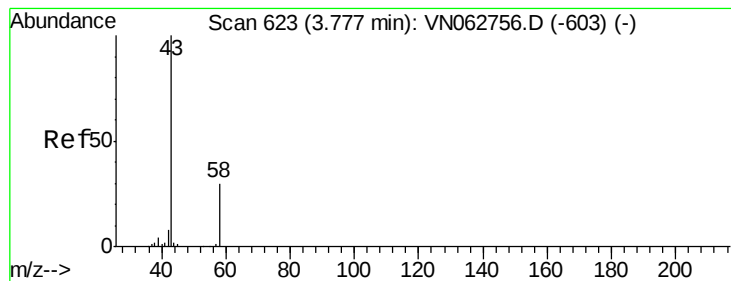
400

200

0

Time--> 4.65 4.70





#16

Acetone

Concen: 40.713 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

Instrument :

MSVOA_N

ClientSampled :

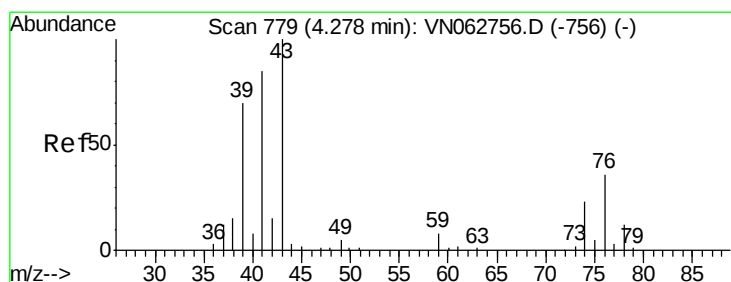
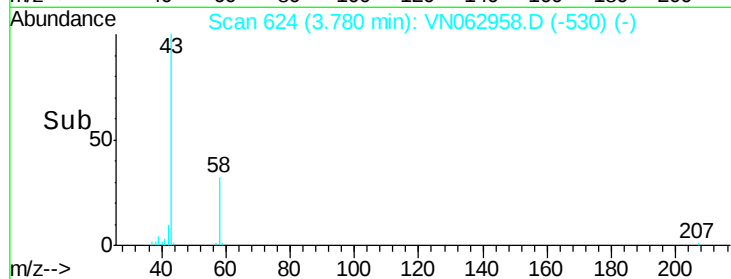
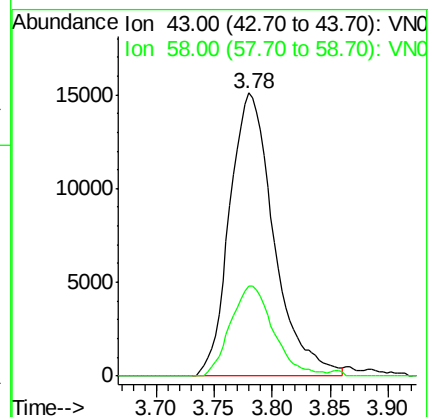
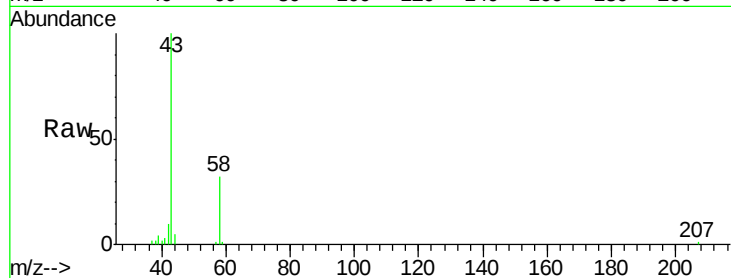
SP1-1

Tgt Ion: 43 Resp: 40063

Ion Ratio Lower Upper

43 100

58 31.6 24.1 36.1



#18

Methyl Acetate

Concen: 0.915 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN062958.D

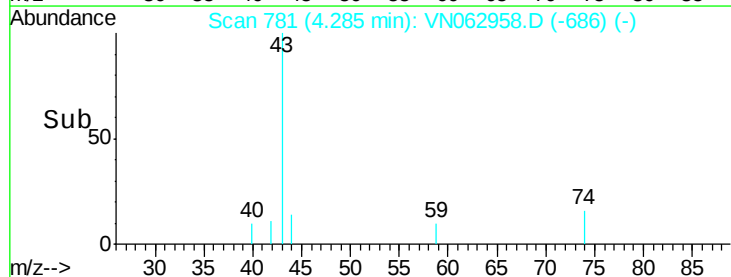
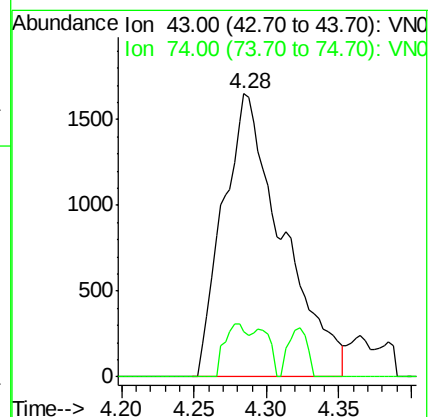
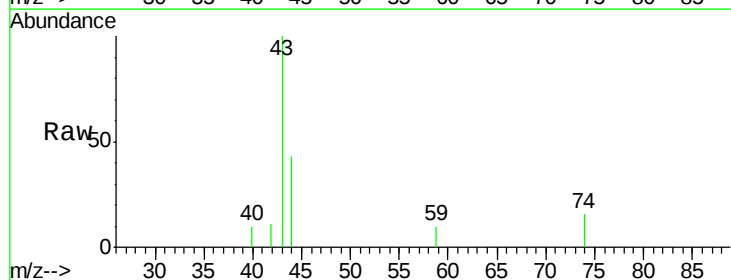
Acq: 15 Aug 2020 1:23

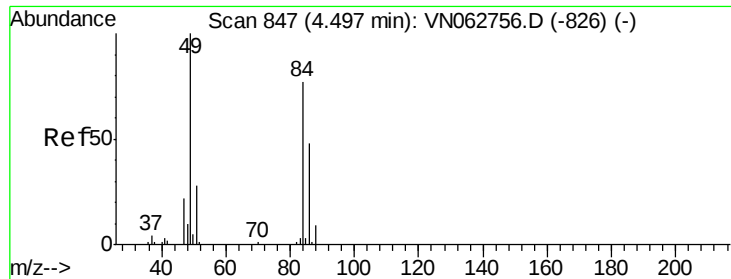
Tgt Ion: 43 Resp: 4711

Ion Ratio Lower Upper

43 100

74 7.2 18.6 28.0#

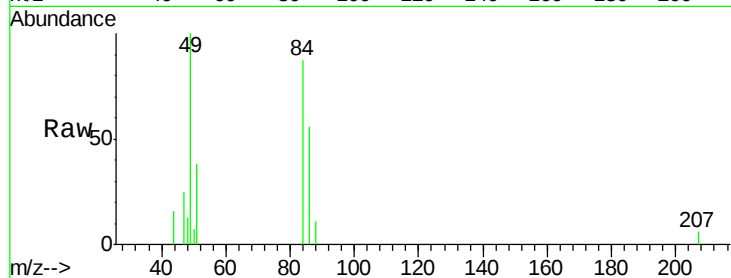




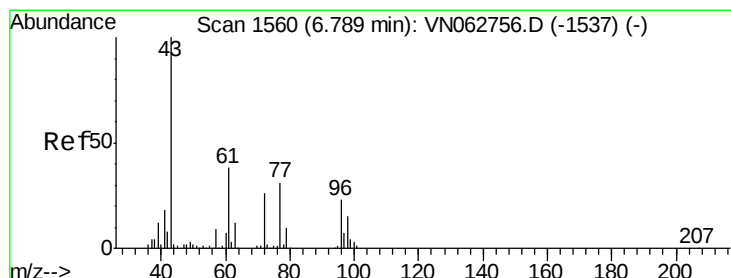
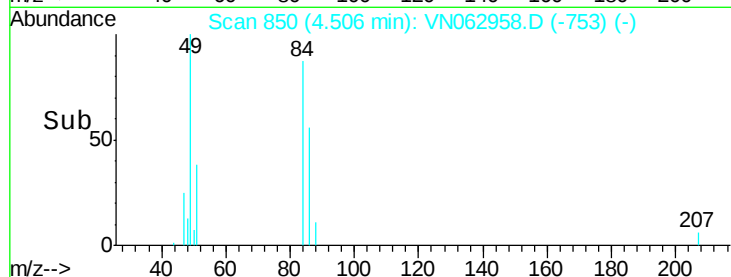
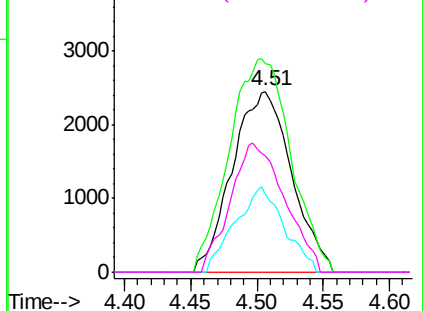
#20
Methylene Chloride
Concen: 3.529 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062958.D
Acq: 15 Aug 2020 1:23

Instrument :
MSVOA_N
ClientSampled :
SP1-1

Tgt Ion: 84 Resp: 7628
Ion Ratio Lower Upper
84 100
49 115.0 103.4 155.2
51 43.4 29.3 43.9
86 64.1 49.9 74.9

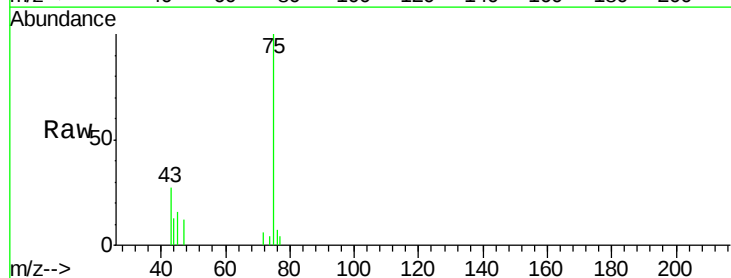


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

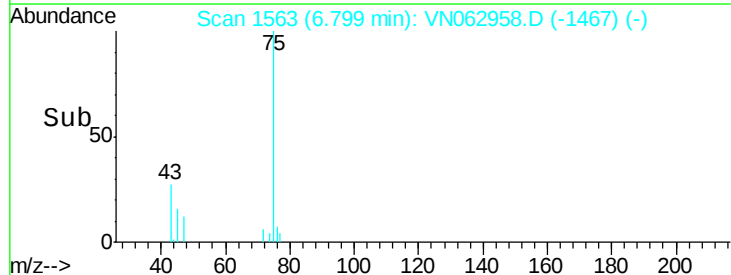
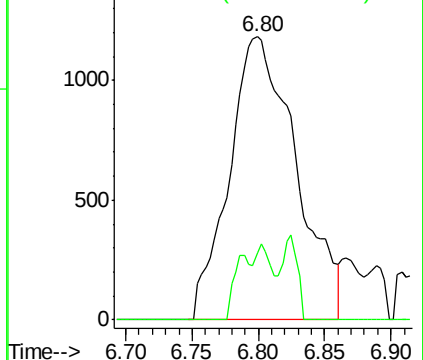


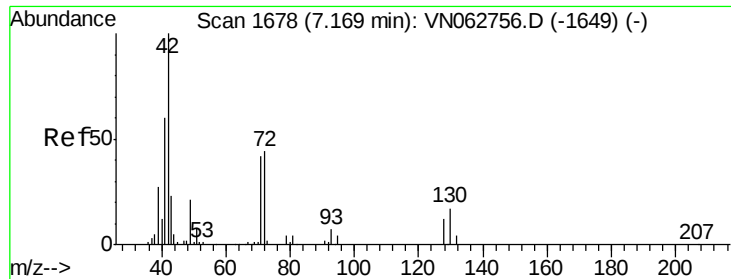
#25
2-Butanone
Concen: 2.983 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062958.D
Acq: 15 Aug 2020 1:23

Tgt Ion: 43 Resp: 4157
Ion Ratio Lower Upper
43 100
72 23.5 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

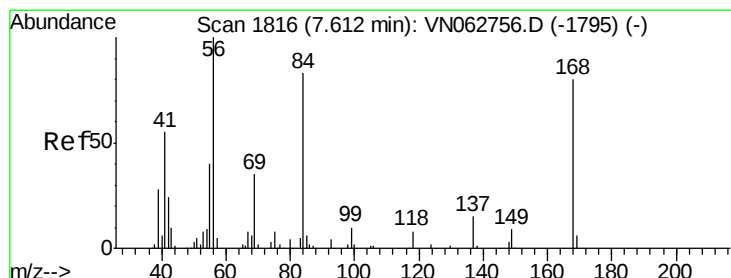
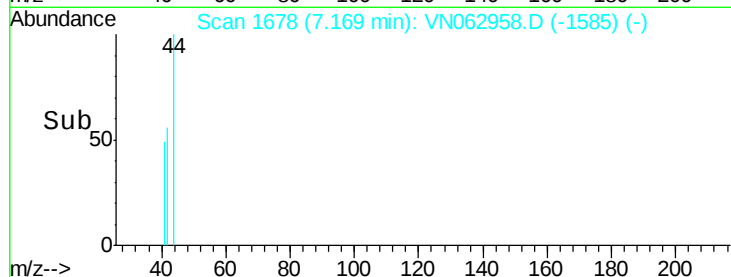
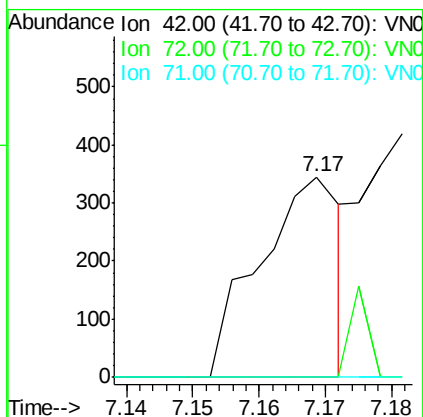
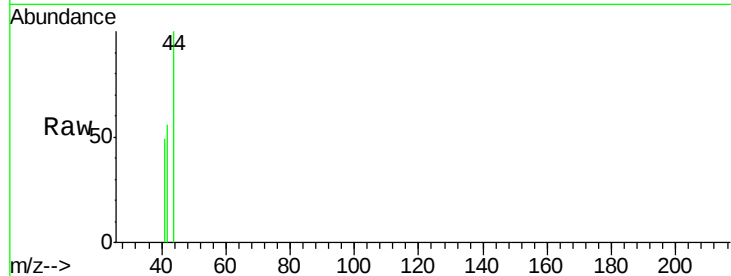




#29
Tetrahydrofuran
Concen: 0.324 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN062958.D
Acq: 15 Aug 2020 1:23

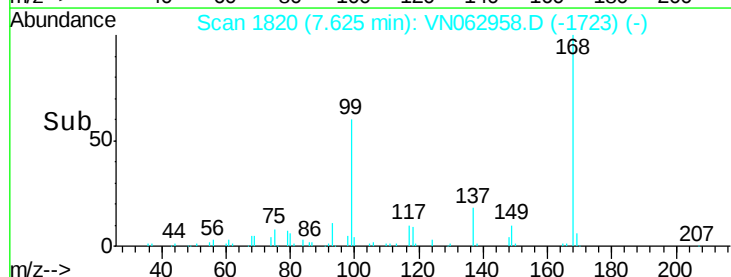
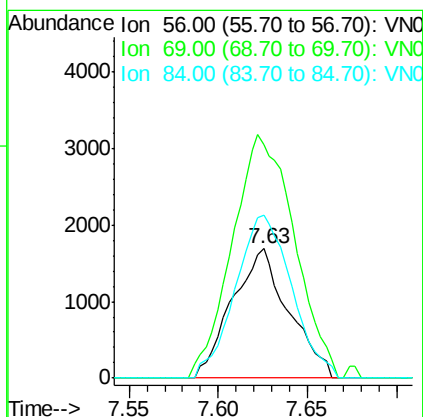
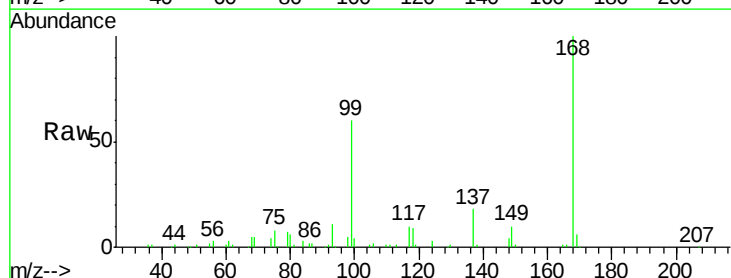
Instrument :
MSVOA_N
ClientSampled :
SP1-1

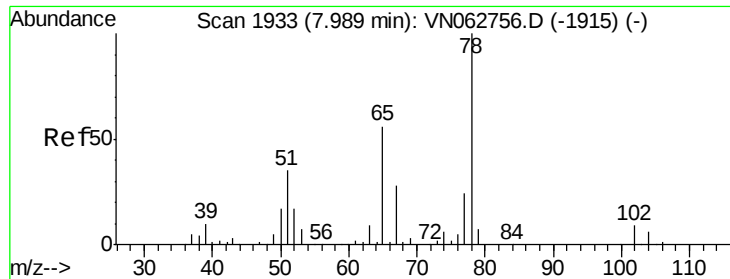
Tgt Ion: 42 Resp: 293
Ion Ratio Lower Upper
42 100
72 10.2 35.0 52.4#
71 0.0 33.2 49.8#



#31
Cyclohexane
Concen: 1.134 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062958.D
Acq: 15 Aug 2020 1:23

Tgt Ion: 56 Resp: 3744
Ion Ratio Lower Upper
56 100
69 180.2 28.1 42.1#
84 125.5 66.8 100.2#

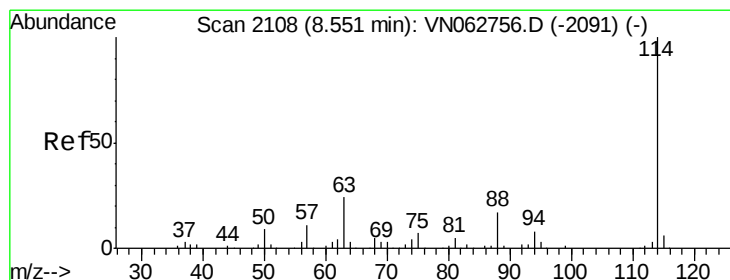
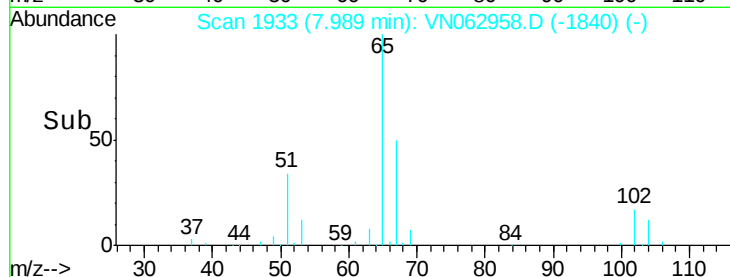
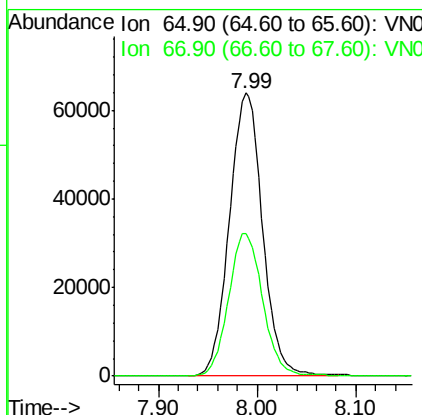
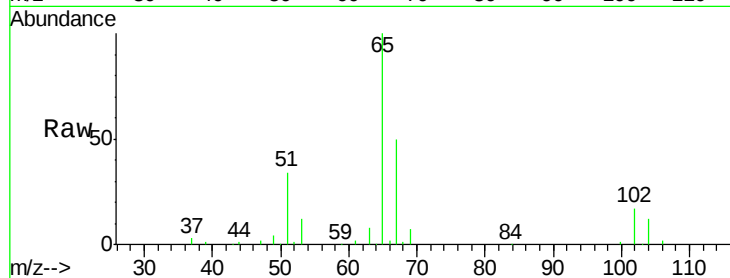




#33
 1,2-Dichloroethane-d4
 Concen: 54.903 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062958.D
 Acq: 15 Aug 2020 1:23

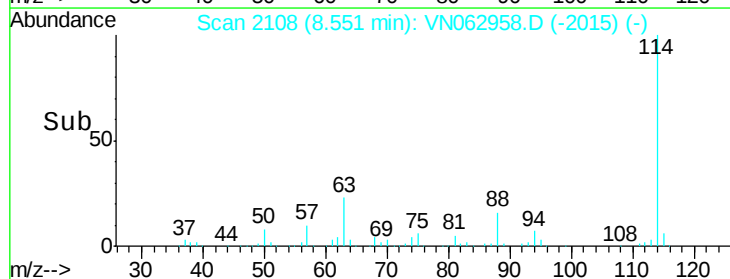
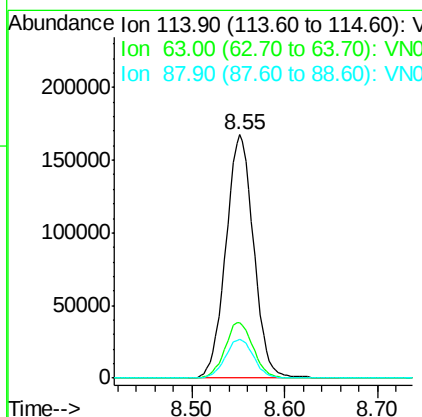
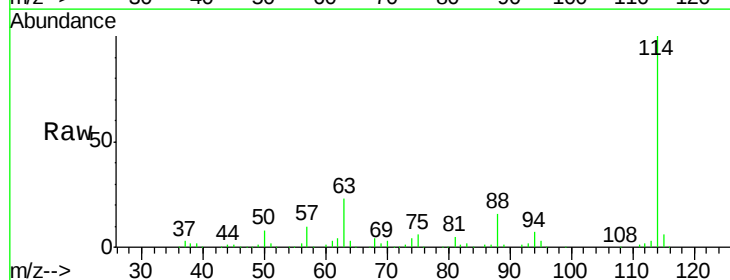
Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-1

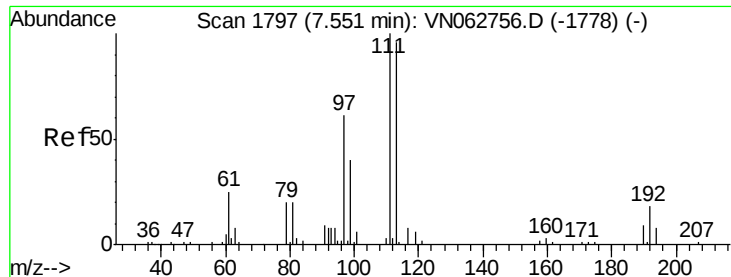
Tgt Ion: 65 Resp: 149517
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062958.D
 Acq: 15 Aug 2020 1:23

Tgt Ion: 114 Resp: 347617
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 47.6
 88 15.9 0.0 34.4

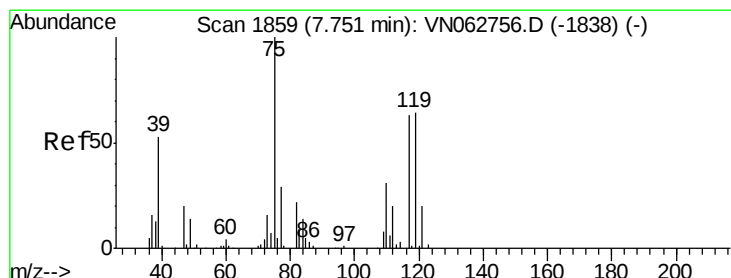
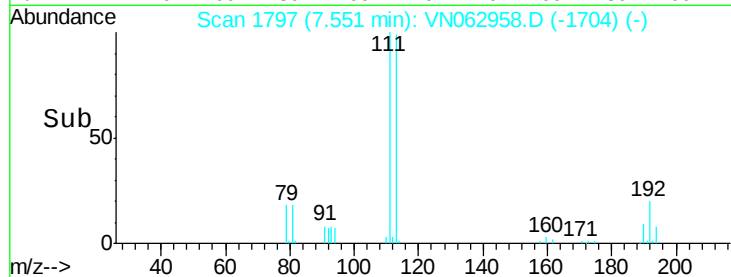
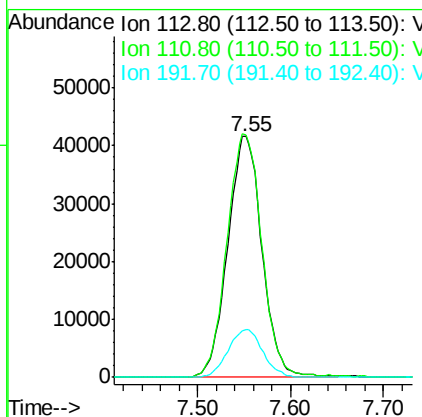
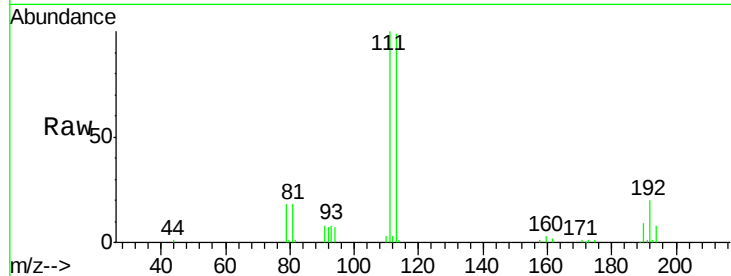




#35
 Dibromofluoromethane
 Concen: 44.814 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VN062958.D
 Acq: 15 Aug 2020 1:23

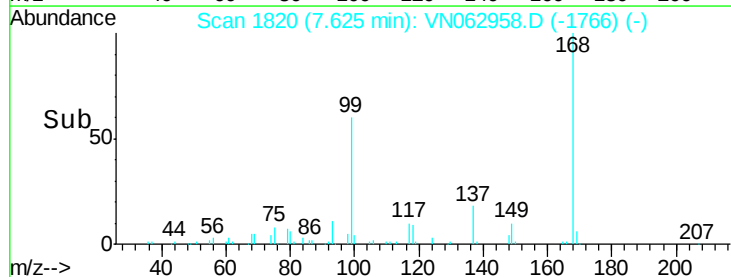
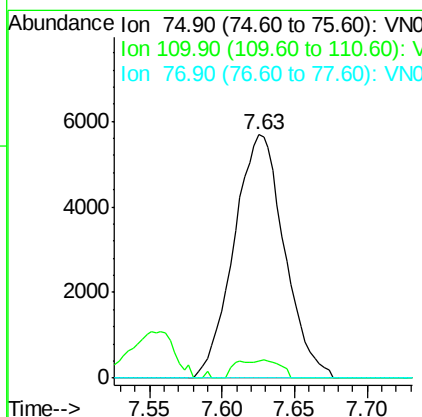
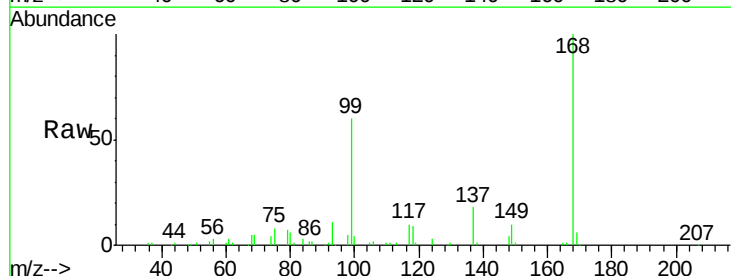
Instrument :
 MSVOA_N
 ClientSampled :
 SP1-1

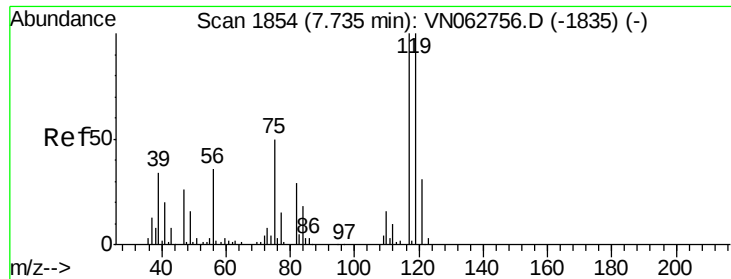
Tgt Ion: 113 Resp: 106564
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.8 122.6
 192 20.0 15.0 22.4



#36
 1,1-Dichloropropene
 Concen: 4.061 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062958.D
 Acq: 15 Aug 2020 1:23

Tgt Ion: 75 Resp: 13745
 Ion Ratio Lower Upper
 75 100
 110 2.5 15.6 46.7#
 77 0.0 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 4.265 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

Instrument :

MSVOA_N

ClientSampleId :

SP1-1

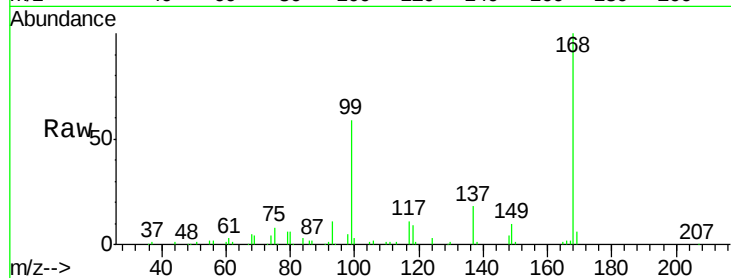
Tgt Ion:117 Resp: 17075

Ion Ratio Lower Upper

117 100

119 7.4 79.4 119.2#

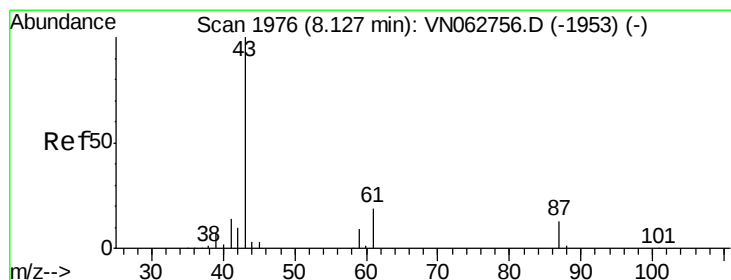
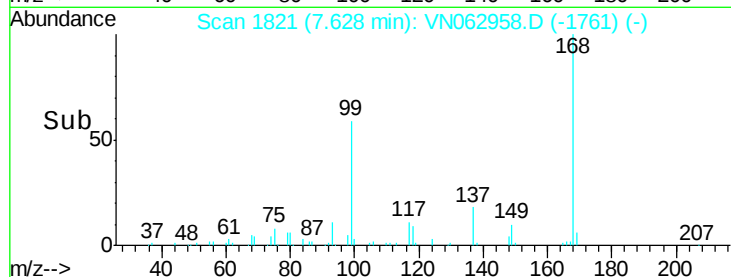
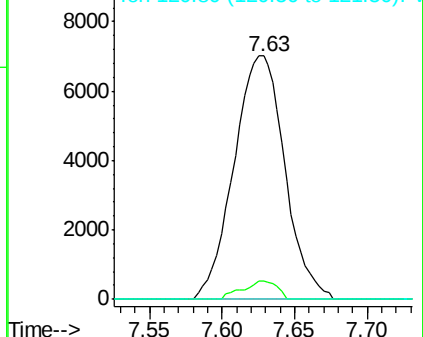
121 0.0 24.9 37.3#



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: 5.814 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

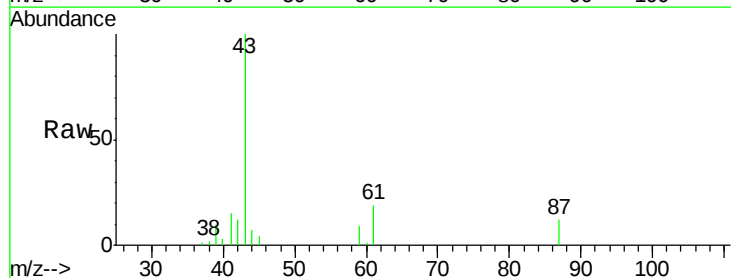
Tgt Ion: 43 Resp: 34288

Ion Ratio Lower Upper

43 100

61 19.3 15.8 23.6

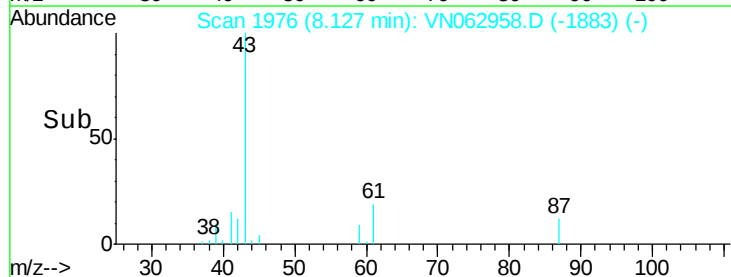
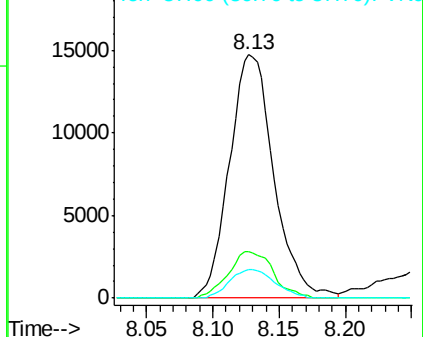
87 11.9 9.9 14.9

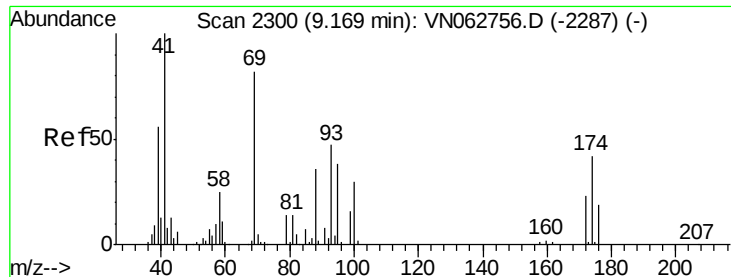


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

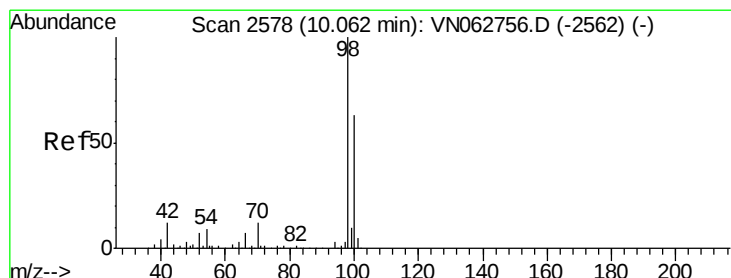
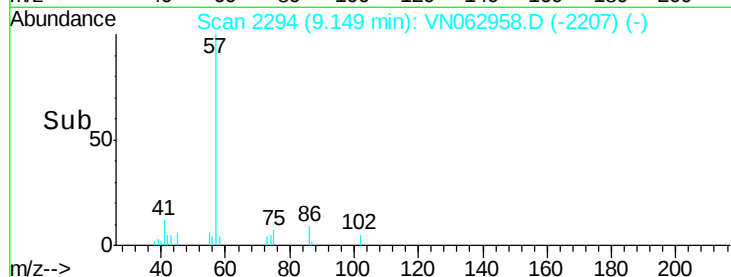
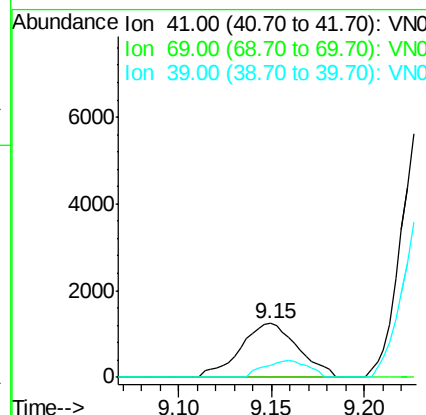
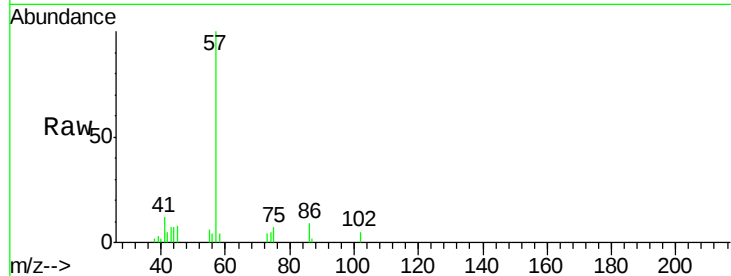




#48
Methyl methacrylate
Concen: 0.930 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062958.D
Acq: 15 Aug 2020 1:23

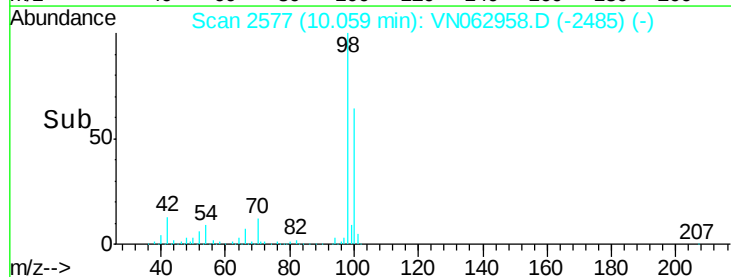
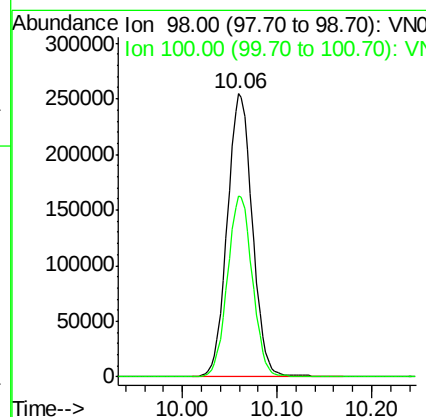
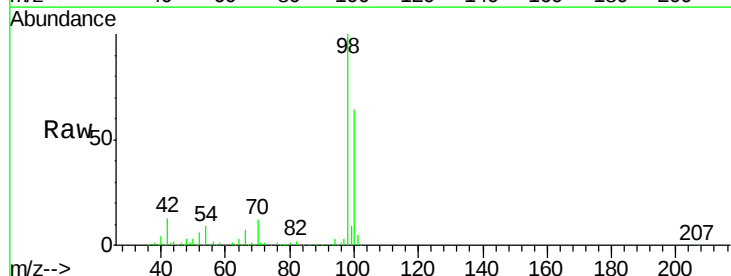
Instrument :
MSVOA_N
ClientSampleId :
SP1-1

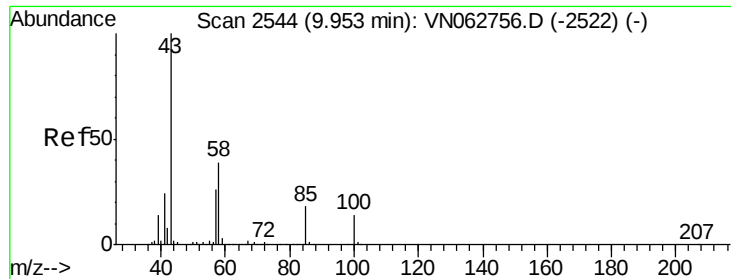
Tgt Ion: 41 Resp: 2699
Ion Ratio Lower Upper
41 100
69 0.0 67.4 101.2#
39 23.5 47.6 71.4#



#50
Toluene-d8
Concen: 50.607 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062958.D
Acq: 15 Aug 2020 1:23

Tgt Ion: 98 Resp: 469814
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3

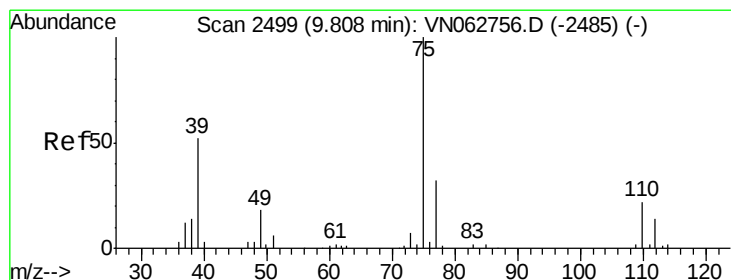
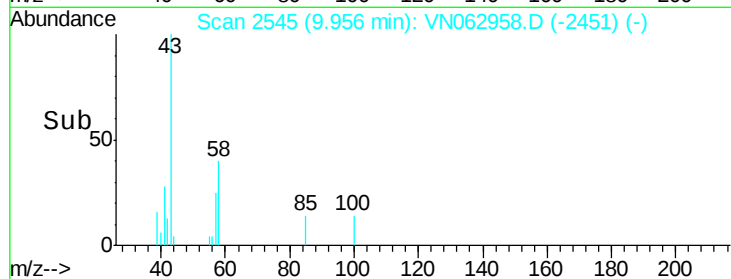
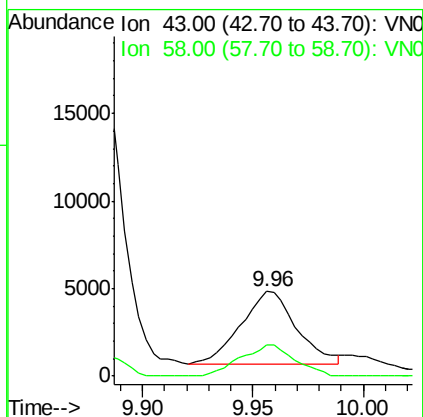
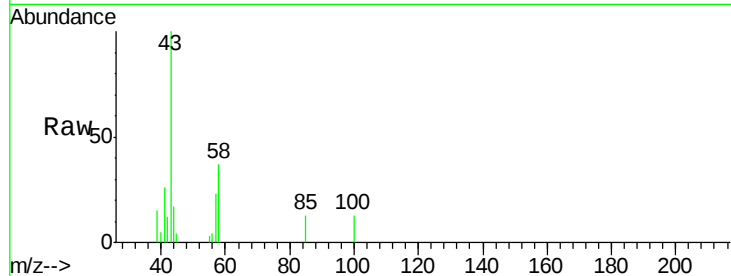




#51
 4-Methyl-2-Pentanone
 Concen: 1.910 ug/l
 RT: 9.96 min Scan# 2545
 Delta R.T. 0.00 min
 Lab File: VN062958.D
 Acq: 15 Aug 2020 1:23

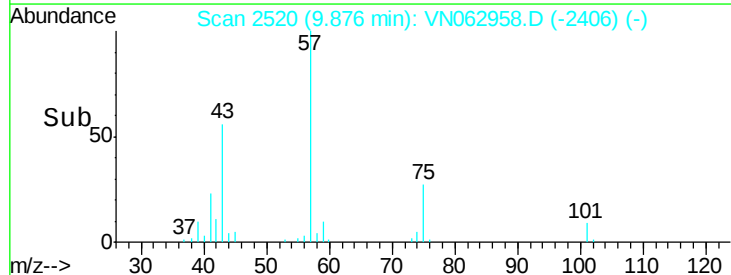
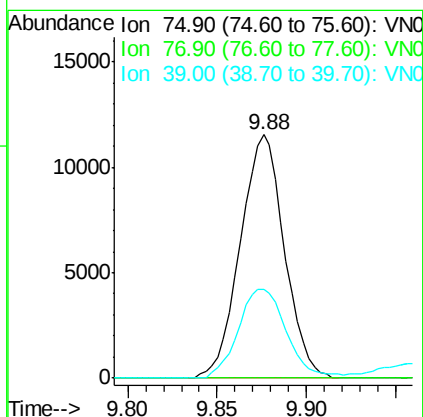
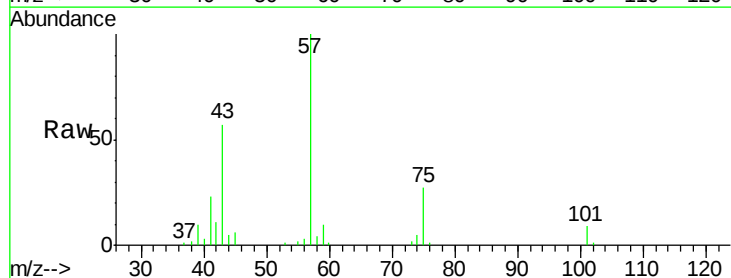
Instrument :
 MSVOA_N
 ClientSampled :
 SP1-1

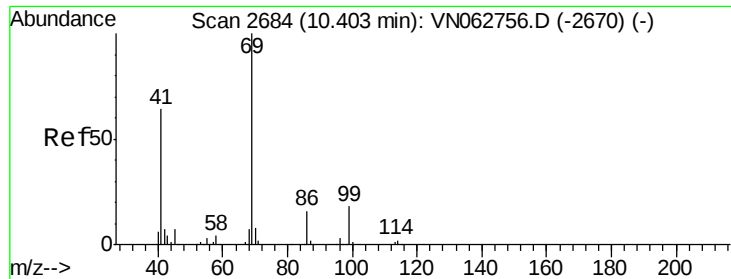
Tgt Ion: 43 Resp: 7289
 Ion Ratio Lower Upper
 43 100
 58 41.7 31.1 46.7



#54
 cis-1,3-Dichloropropene
 Concen: 4.463 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062958.D
 Acq: 15 Aug 2020 1:23

Tgt Ion: 75 Resp: 19827
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 36.4 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.472 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.11 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

Instrument :

MSVOA_N

ClientSampled :

SP1-1

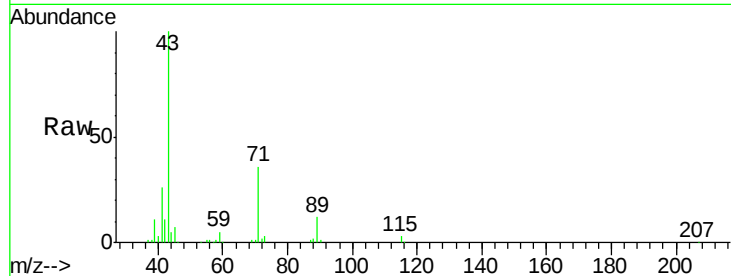
Tgt Ion: 69 Resp: 1891

Ion Ratio Lower Upper

69 100

41 2581.6 52.2 78.2#

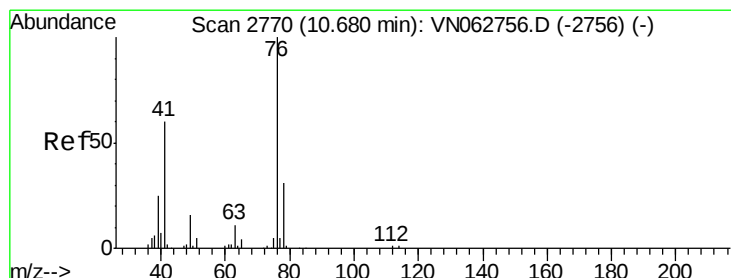
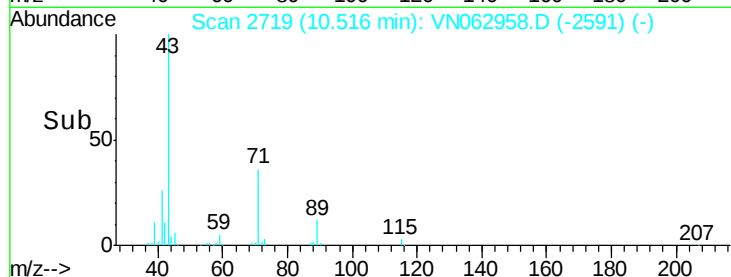
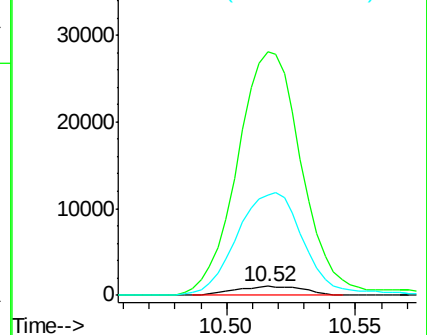
39 1140.2 30.9 46.3#



Abundance Ion 69.00 (68.70 to 69.70): VN062958.D (-2719) (-)

Ion 41.00 (40.70 to 41.70): VN062958.D (-2719) (-)

Ion 39.00 (38.70 to 39.70): VN062958.D (-2719) (-)



#57

1,3-Dichloropropane

Concen: 0.235 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062958.D

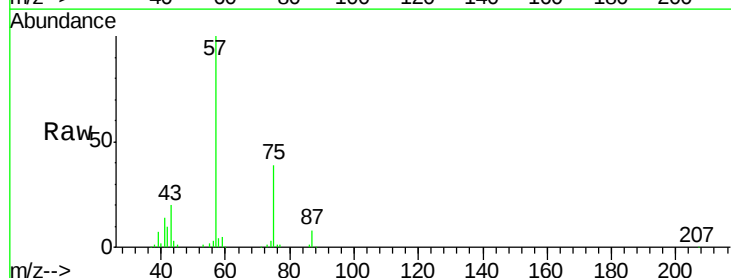
Acq: 15 Aug 2020 1:23

Tgt Ion: 76 Resp: 1065

Ion Ratio Lower Upper

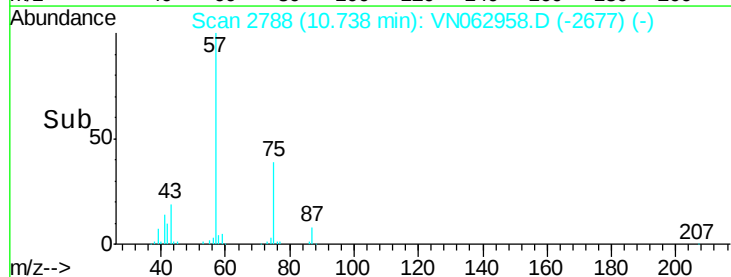
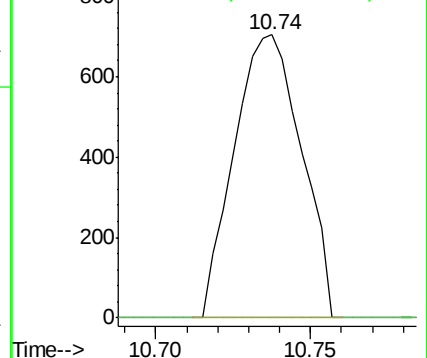
76 100

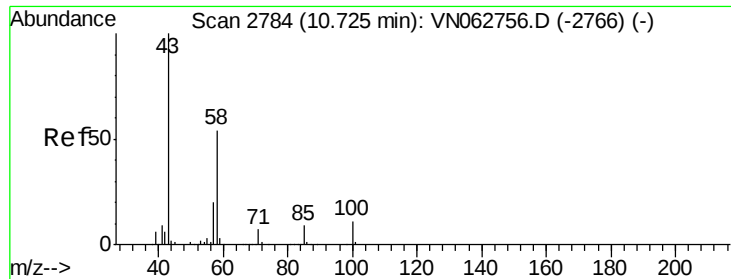
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN062958.D (-2788) (-)

Ion 77.90 (77.60 to 78.60): VN062958.D (-2788) (-)

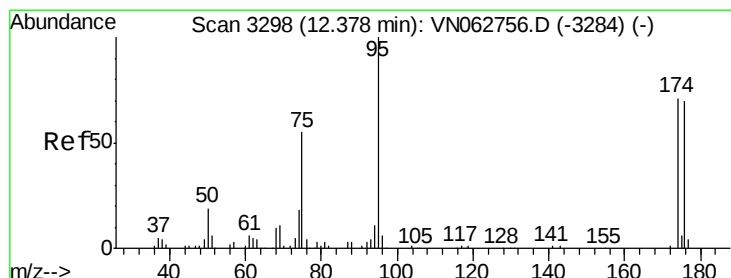
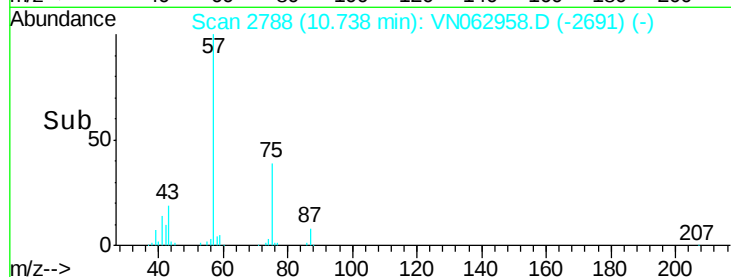
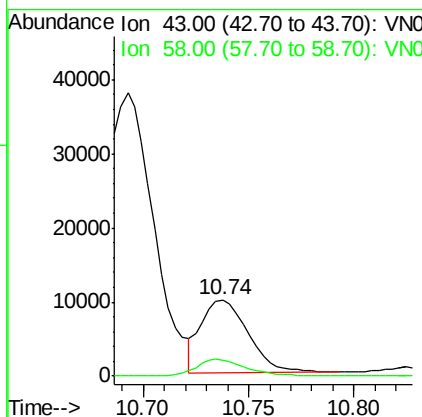
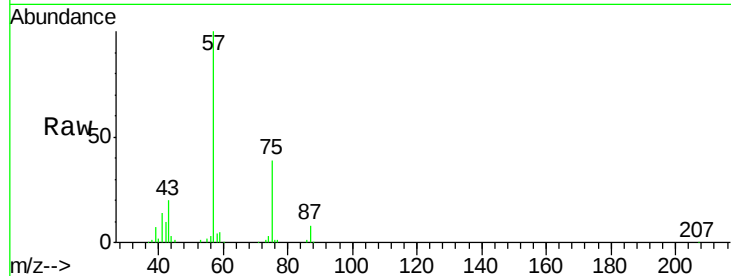




#59
 2-Hexanone
 Concen: 5.284 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN062958.D
 Acq: 15 Aug 2020 1:23

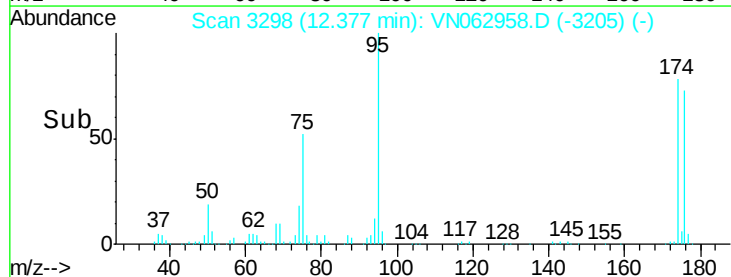
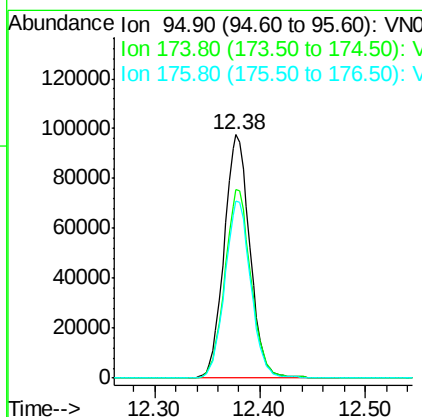
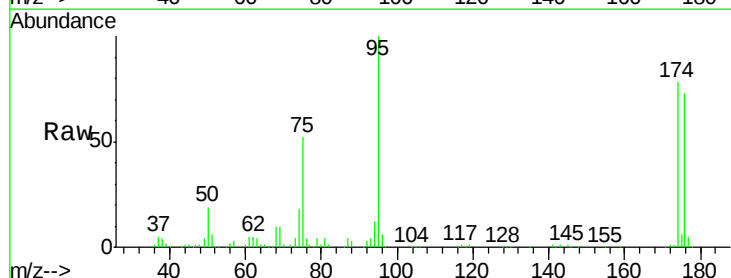
Instrument :
 MSVOA_N
 ClientSampled :
 SP1-1

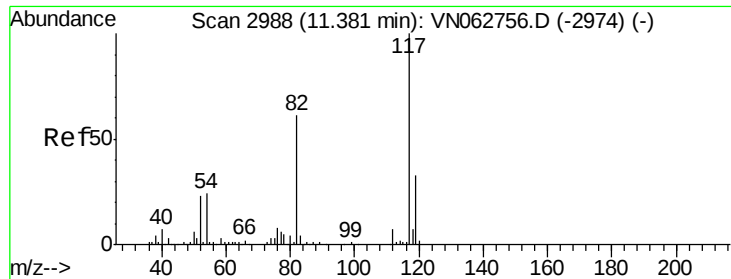
Tgt Ion: 43 Resp: 15039
 Ion Ratio Lower Upper
 43 100
 58 25.0 26.7 80.1#



#62
 4-Bromofluorobenzene
 Concen: 46.970 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062958.D
 Acq: 15 Aug 2020 1:23

Tgt Ion: 95 Resp: 164781
 Ion Ratio Lower Upper
 95 100
 174 78.6 0.0 144.8
 176 73.3 0.0 142.2

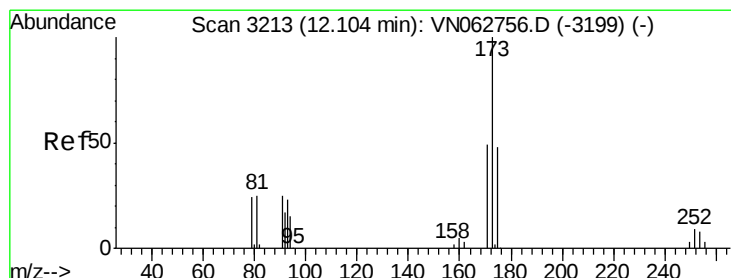
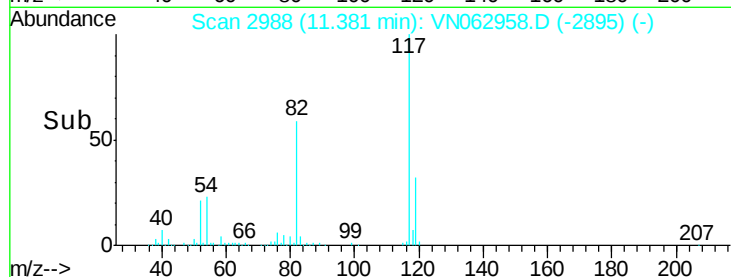
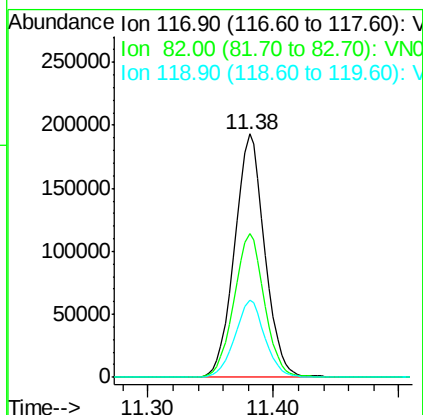
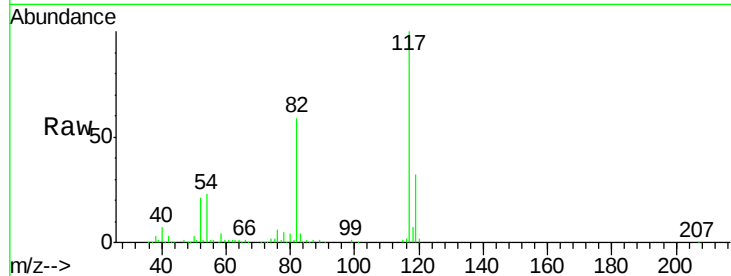




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062958.D
Acq: 15 Aug 2020 1:23

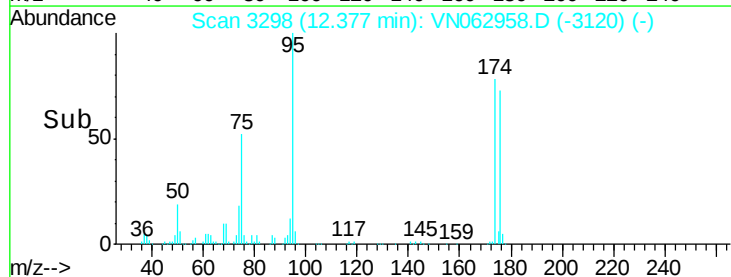
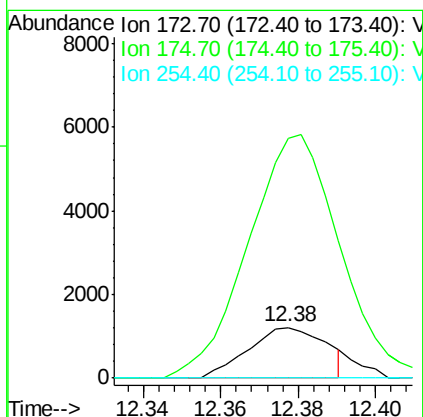
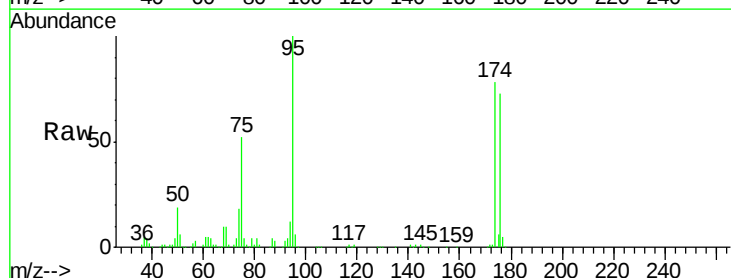
Instrument :
MSVOA_N
ClientSampled :
SP1-1

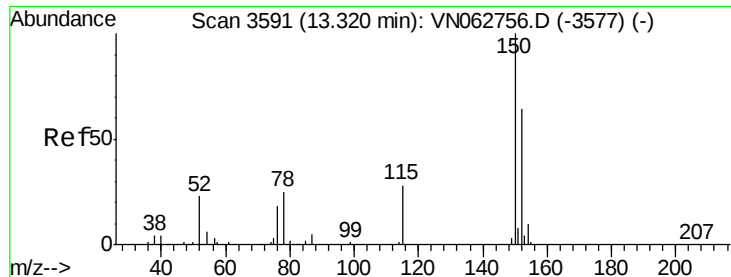
Tgt Ion:117 Resp: 321782
Ion Ratio Lower Upper
117 100
82 59.3 49.0 73.4
119 31.6 26.2 39.2



#71
Bromoform
Concen: 0.764 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.27 min
Lab File: VN062958.D
Acq: 15 Aug 2020 1:23

Tgt Ion:173 Resp: 1688
Ion Ratio Lower Upper
173 100
175 498.8 24.0 72.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

Instrument :

MSVOA_N

ClientSampleId :

SP1-1

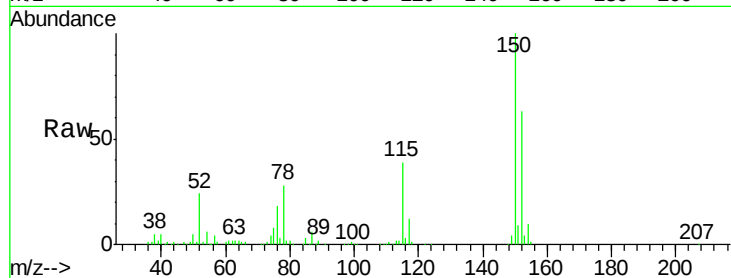
Tgt Ion:152 Resp: 134240

Ion Ratio Lower Upper

152 100

115 61.4 31.6 94.8

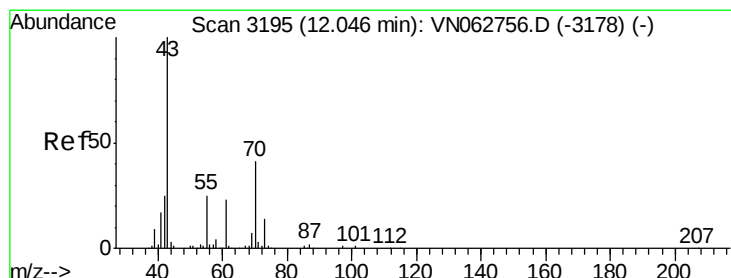
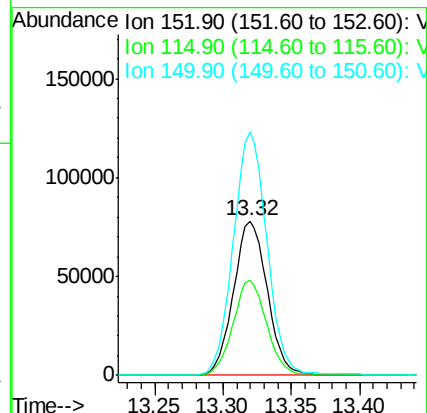
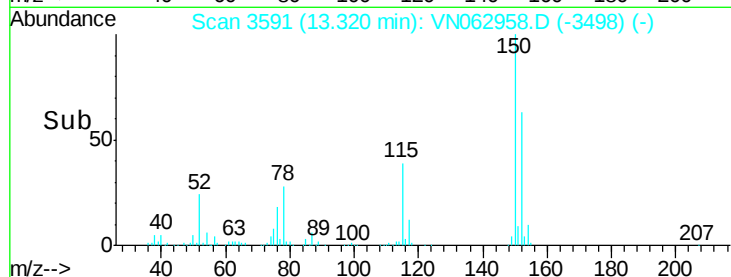
150 157.6 0.0 349.2



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: 0.359 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

Tgt Ion: 43 Resp: 1470

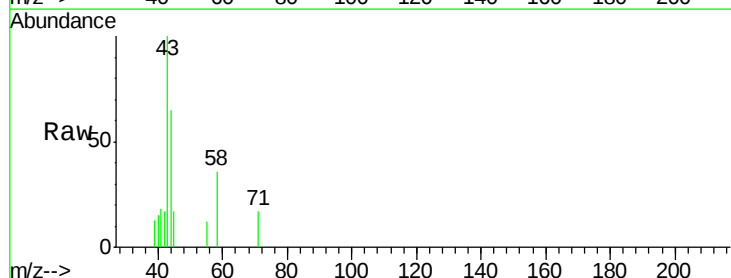
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 2.0 20.2 30.2#

61 0.0 18.2 27.4#

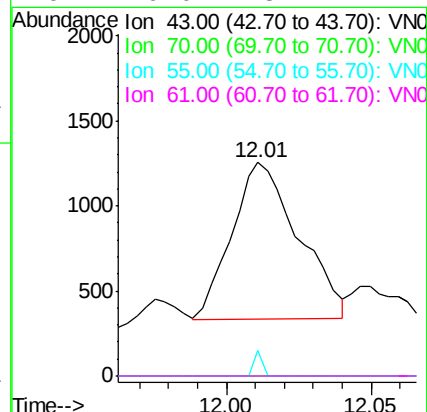
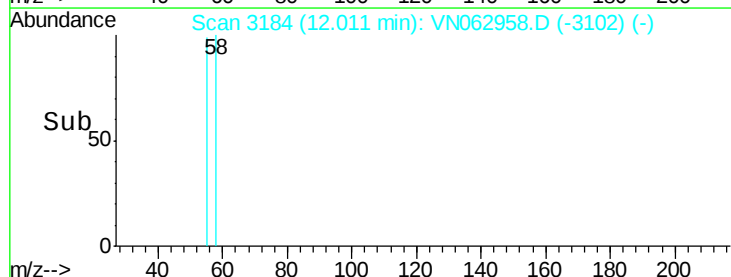


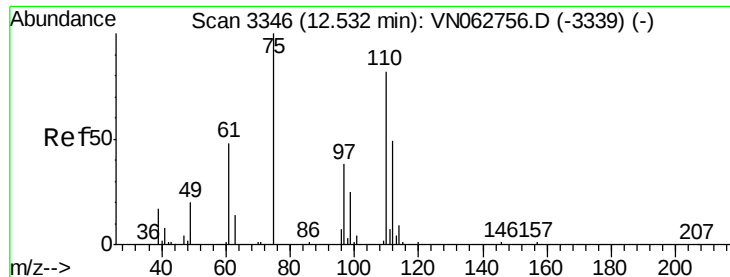
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 23.773 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

Instrument :

MSVOA_N

ClientSampled :

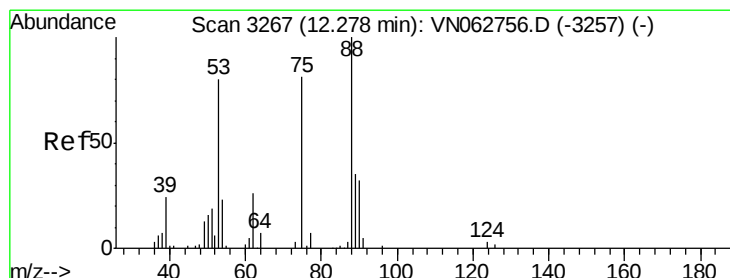
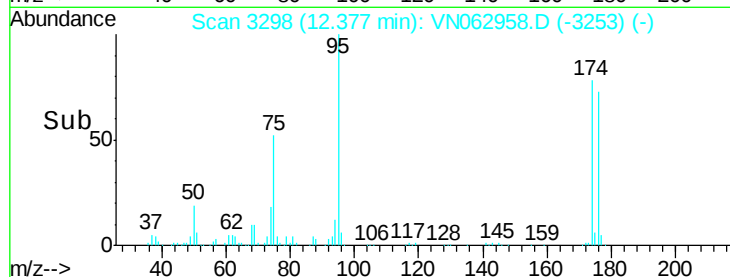
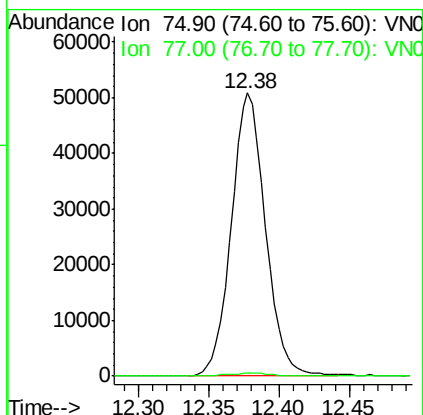
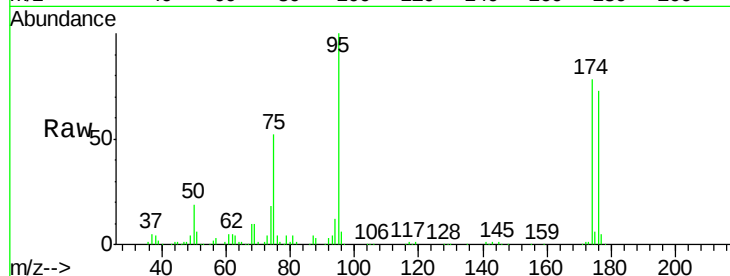
SP1-1

Tgt Ion: 75 Resp: 86065

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.572 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062958.D

Acq: 15 Aug 2020 1:23

Tgt Ion: 75 Resp: 86065

Ion Ratio Lower Upper

75 100

53 0.1 79.1 118.7#

89 0.0 36.2 54.2#

