

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081220\
 Data File : VN062870.D
 Acq On : 12 Aug 2020 20:38
 Operator : JC/MD
 Sample : L3508-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-05-081120

Quant Time: Aug 13 05:25:05 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	121314	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	224027	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	231630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	85917	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	106751	53.21	ug/l	0.00
Spiked Amount			Recovery	=	106.42%	
35) Dibromofluoromethane	7.55	113	74519	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
50) Toluene-d8	10.06	98	294180	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.38	95	107511	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	

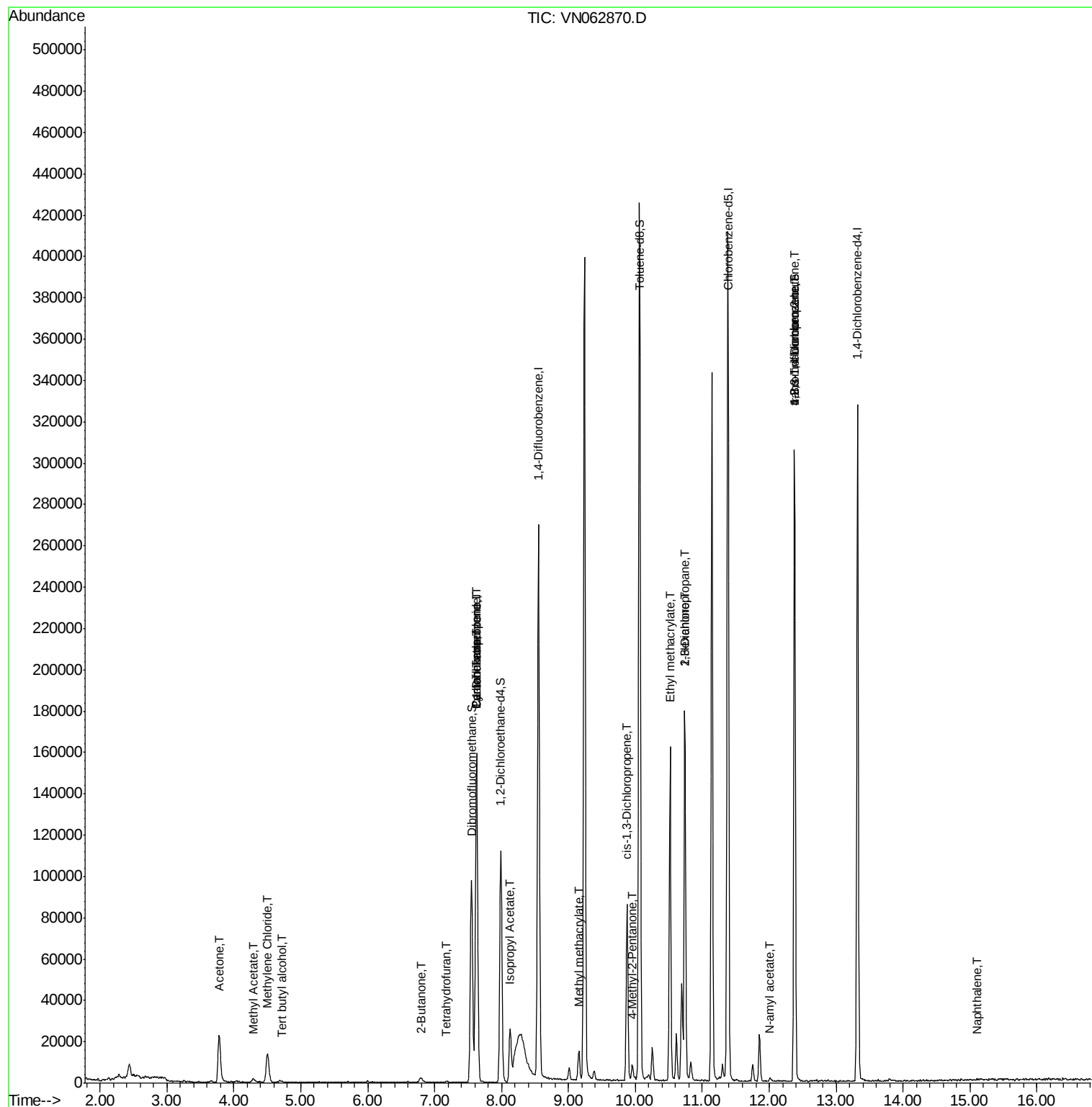
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	93	0.283	ug/l #	72
16) Acetone	3.78	43	39434	54.399	ug/l	98
17) Carbon Disulfide	4.00	76	30	Below Cal	#	74
18) Methyl Acetate	4.28	43	2500	0.336	ug/l #	73
20) Methylene Chloride	4.50	84	11421	7.970	ug/l	86
25) 2-Butanone	6.81	43	3225	3.141	ug/l #	68
29) Tetrahydrofuran	7.17	42	553	0.829	ug/l #	47
31) Cyclohexane	7.62	56	2870	1.180	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10307	4.725	ug/l #	49
38) Carbon Tetrachloride	7.63	117	12389	4.802	ug/l #	15
43) Isopropyl Acetate	8.13	43	32390	8.522	ug/l #	94
48) Methyl methacrylate	9.15	41	2320	1.241	ug/l #	13
51) 4-Methyl-2-Pentanone	9.95	43	5734	2.332	ug/l #	86
54) cis-1,3-Dichloropropene	9.88	75	14484	5.059	ug/l #	63
56) Ethyl methacrylate	10.52	69	1119	0.433	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1740	0.597	ug/l #	43
59) 2-Hexanone	10.74	43	25229	13.754	ug/l #	54
74) N-amyl acetate	12.00	43	1267	0.483	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	58431	25.217	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	58431	76.982	ug/l #	10
95) Naphthalene	15.11	128	337	3.787	ug/l #	68

(#) = 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: VN062870.D

Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

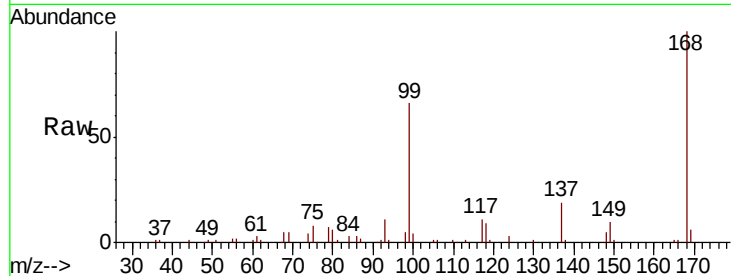
TR-05-081120

Tot Ion:168 Resp: 121314

Ion Ratio Lower Upper

168 100

99 66.2 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.63

60000

50000

40000

30000

20000

10000

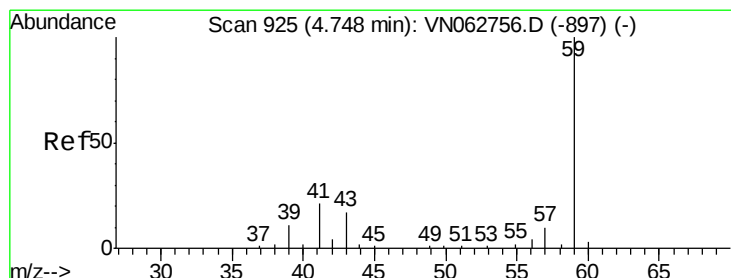
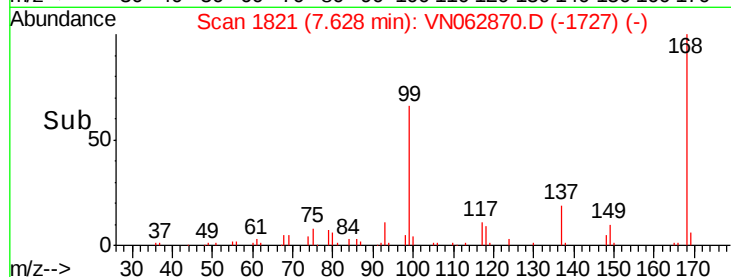
0

Time-->

7.50

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.283 ug/l

RT: 4.72 min Scan# 918

Delta R.T. -0.02 min

Lab File: VN062870.D

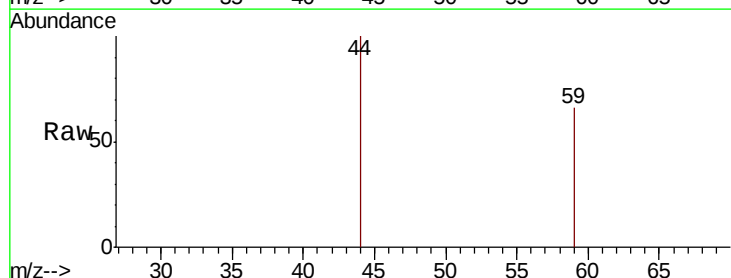
Acq: 12 Aug 2020 20:38

Tgt Ion: 59 Resp: 93

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): V

Ion 57.00 (56.70 to 57.70): V

4.72

300

250

200

150

100

50

0

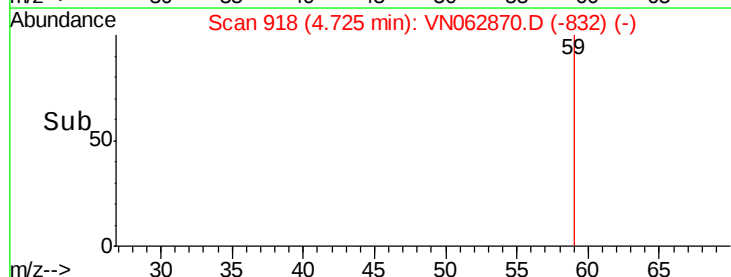
Time-->

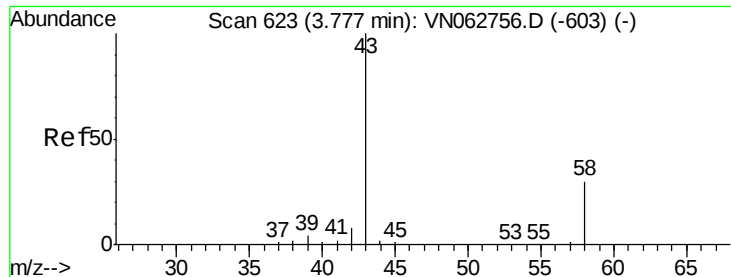
4.71

4.72

4.73

4.74





#16

Acetone

Concen: 54.399 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

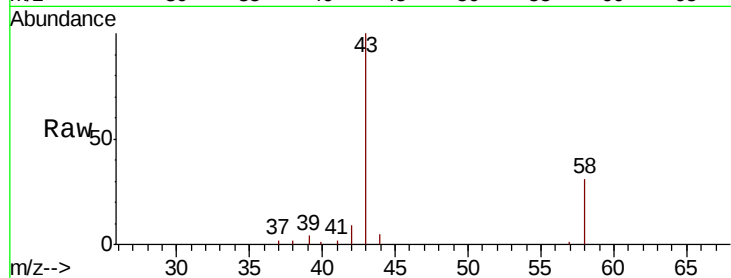
TR-05-081120

Tot Ion: 43 Resp: 39434

Ion Ratio Lower Upper

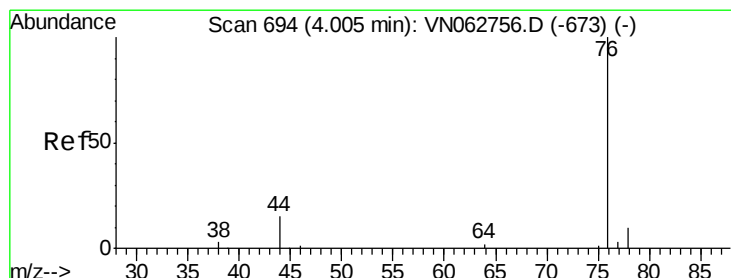
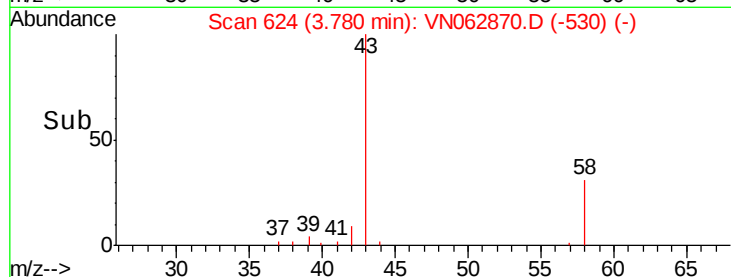
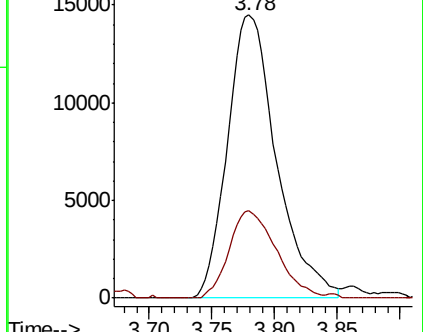
43 100

58 31.1 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN062870.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN062870.D (-530) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN062870.D

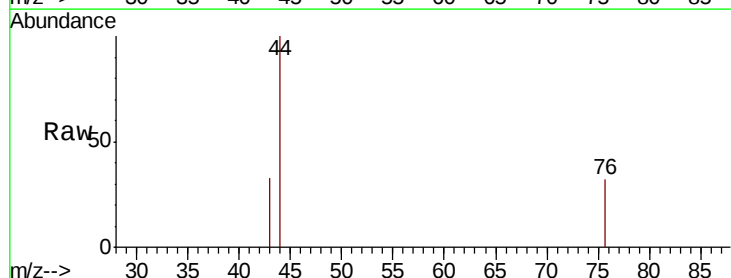
Acq: 12 Aug 2020 20:38

Tgt Ion: 76 Resp: 30

Ion Ratio Lower Upper

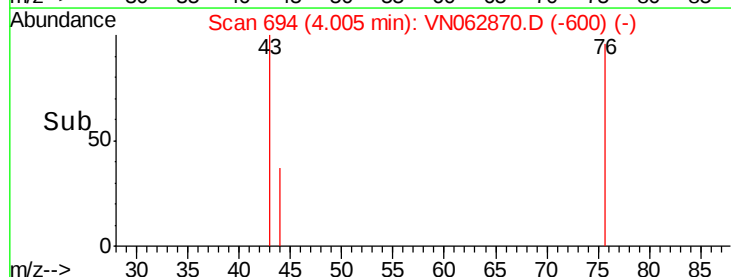
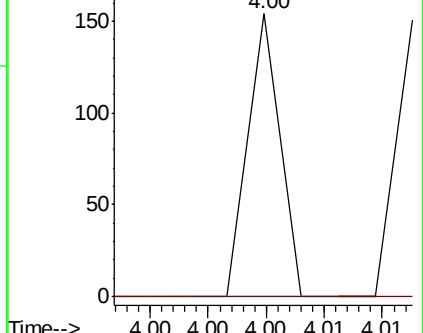
76 100

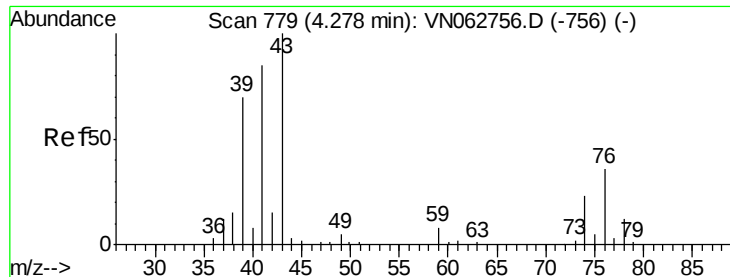
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN062870.D (-600) (-)

Ion 77.90 (77.60 to 78.60): VN062870.D (-600) (-)

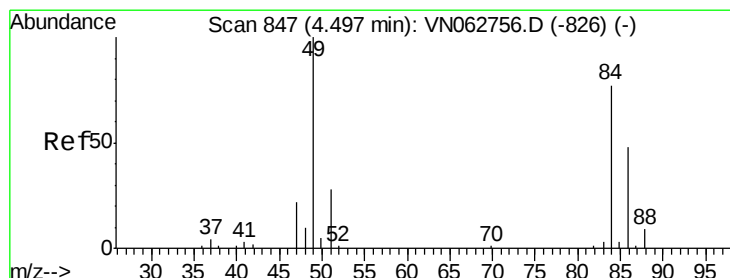
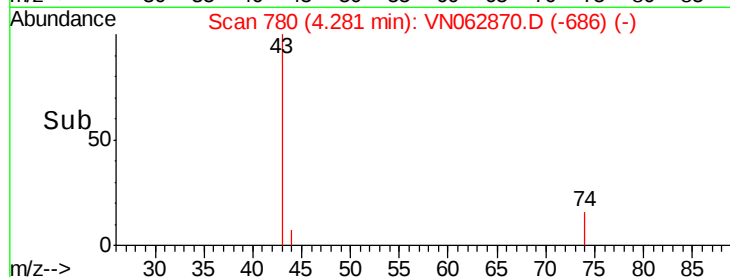
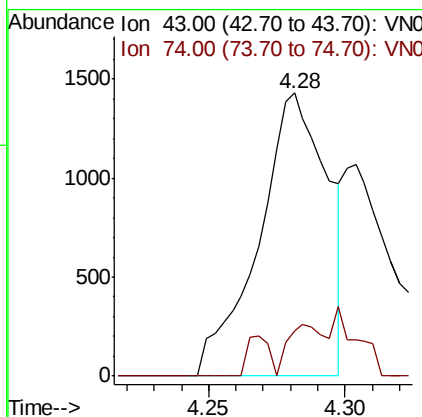
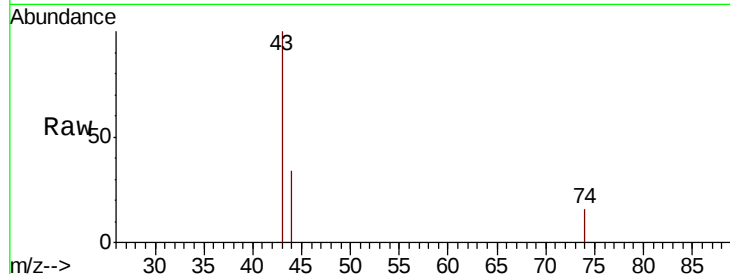




#18
Methyl Acetate
Concen: 0.336 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.00 min
Lab File: VN062870.D
Acq: 12 Aug 2020 20:38

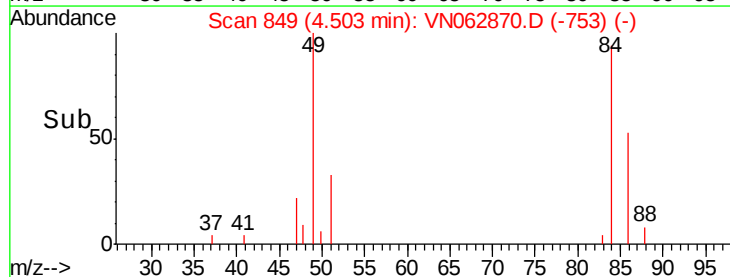
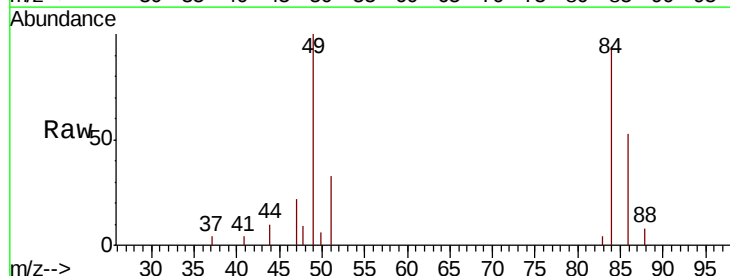
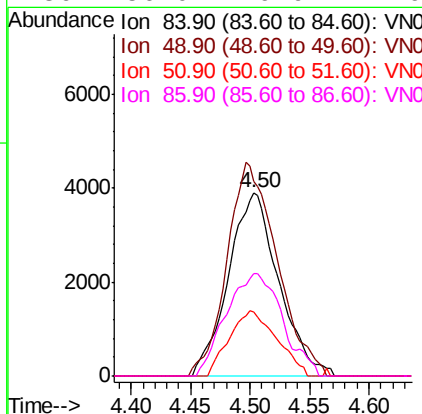
Instrument :
MSVOA_N
ClientSampleId :
TR-05-081120

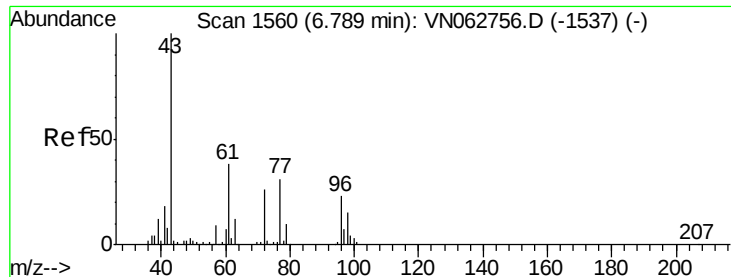
Tot Ion: 43 Resp: 2500
Ion Ratio Lower Upper
43 100
74 10.1 18.6 28.0#



#20
Methylene Chloride
Concen: 7.970 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.01 min
Lab File: VN062870.D
Acq: 12 Aug 2020 20:38

Tgt Ion: 84 Resp: 11421
Ion Ratio Lower Upper
84 100
49 106.3 103.4 155.2
51 35.2 29.3 43.9
86 56.0 49.9 74.9

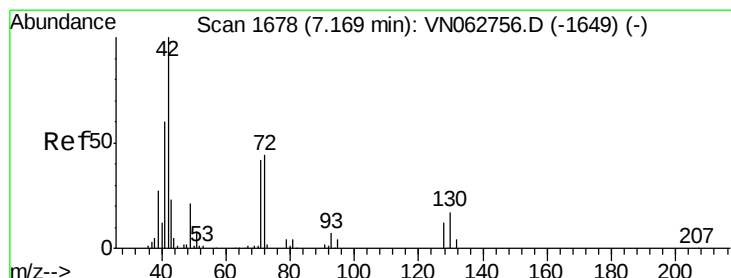
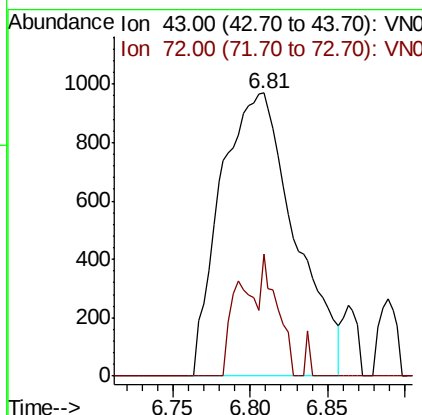
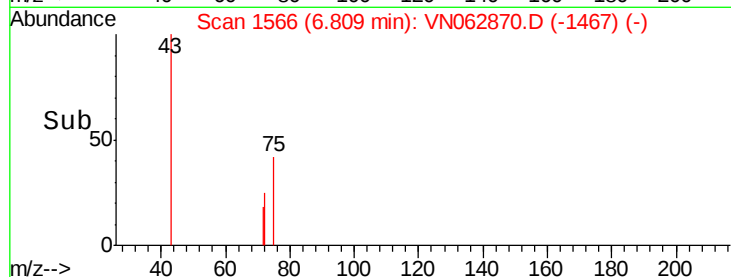
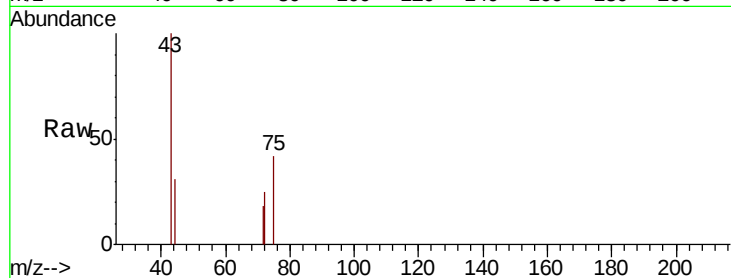




#25
2-Butanone
Concen: 3.141 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.02 min
Lab File: VN062870.D
Acq: 12 Aug 2020 20:38

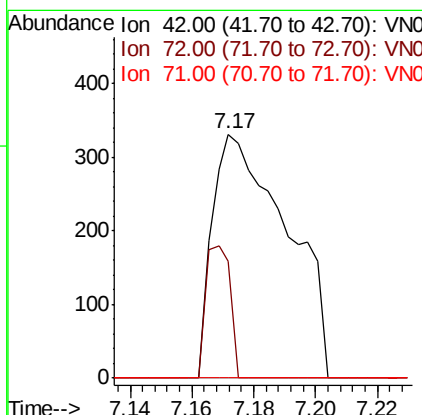
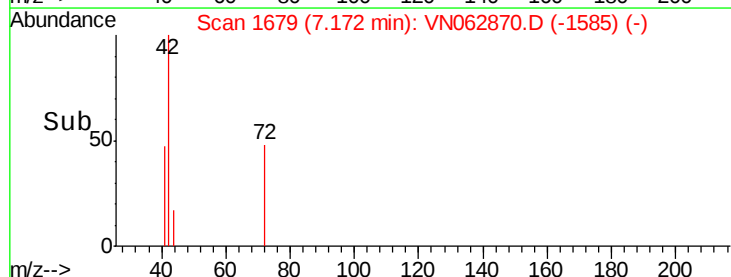
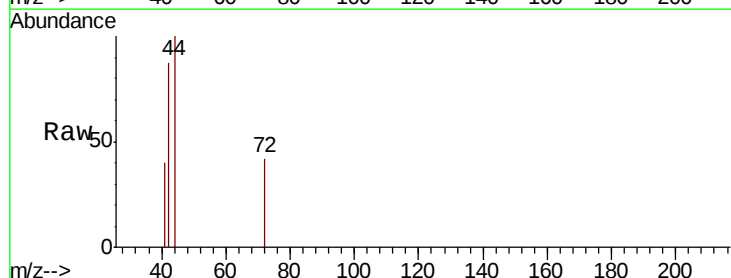
Instrument :
MSVOA_N
ClientSampled :
TR-05-081120

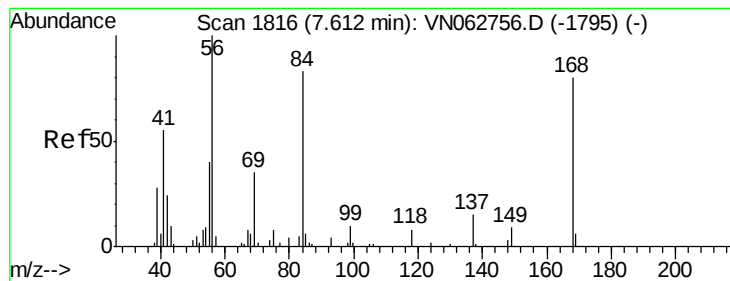
Tot Ion: 43 Resp: 3225
Ion Ratio Lower Upper
43 100
72 43.0 21.1 31.7#



#29
Tetrahydrofuran
Concen: 0.829 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN062870.D
Acq: 12 Aug 2020 20:38

Tgt Ion: 42 Resp: 553
Ion Ratio Lower Upper
42 100
72 17.9 35.0 52.4#
71 0.0 33.2 49.8#





#31

Cyclohexane

Concen: 1.180 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

TR-05-081120

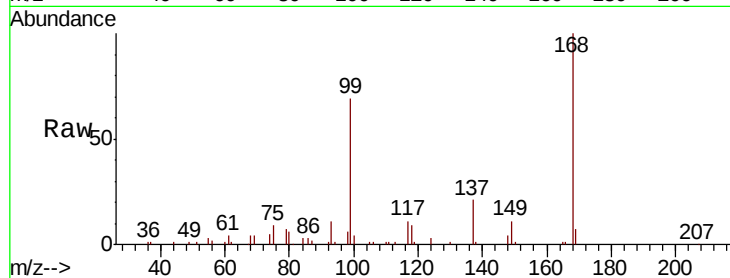
Tot Ion: 56 Resp: 2870

Ion Ratio Lower Upper

56 100

69 183.8 28.1 42.1#

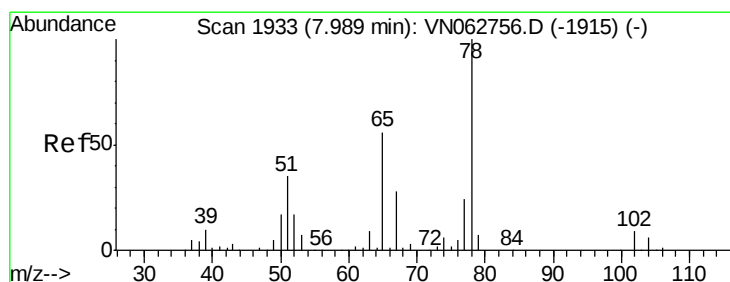
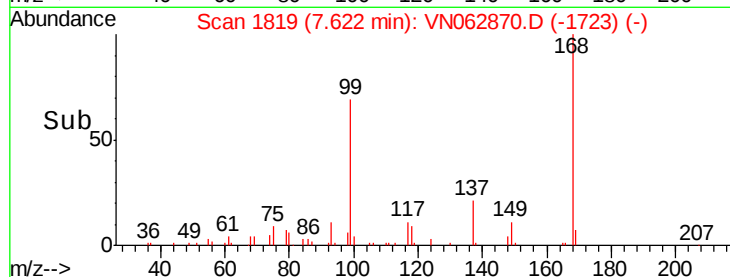
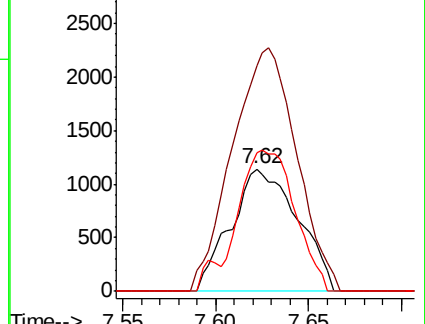
84 113.5 66.8 100.2#



Abundance Ion 56.00 (55.70 to 56.70): VN062870.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN062870.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN062870.D (-1795) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.212 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062870.D

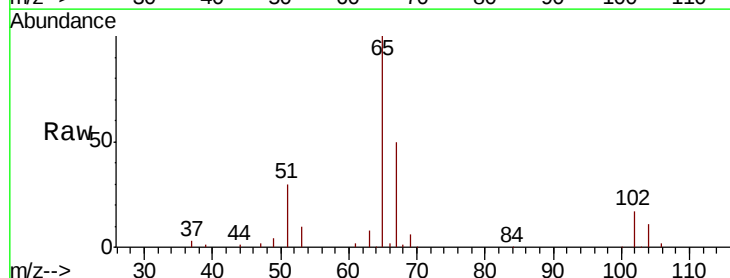
Acq: 12 Aug 2020 20:38

Tgt Ion: 65 Resp: 106751

Ion Ratio Lower Upper

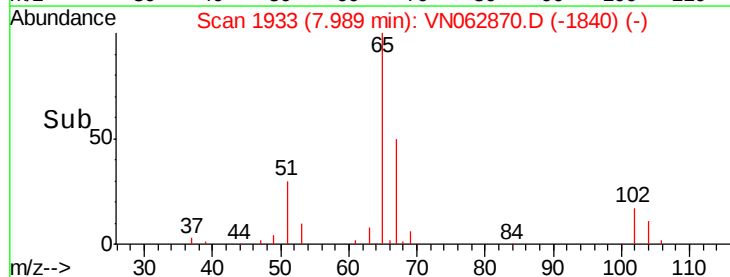
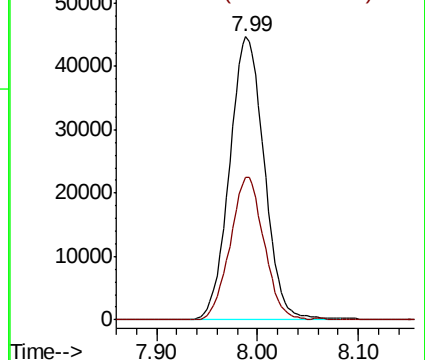
65 100

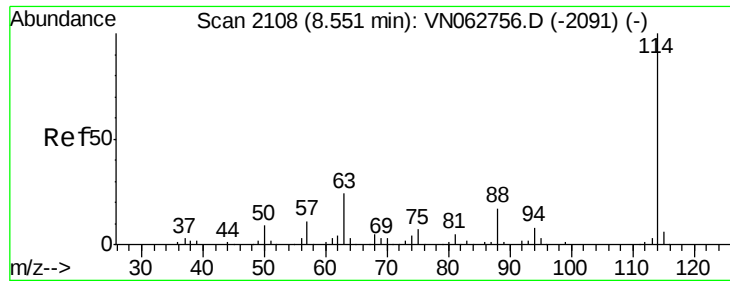
67 49.0 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN062870.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062870.D (-1840) (-)

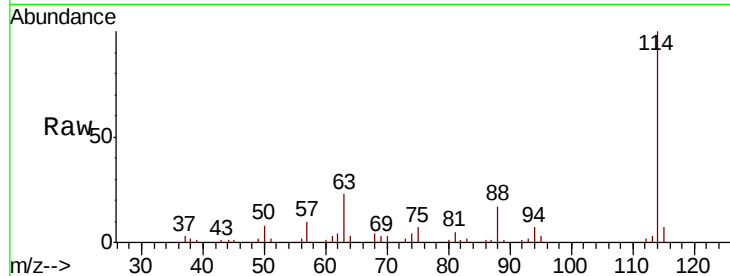




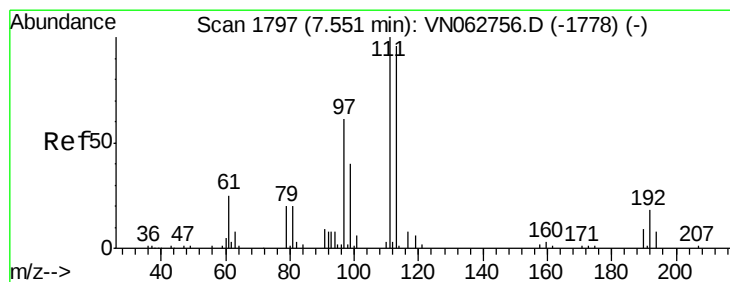
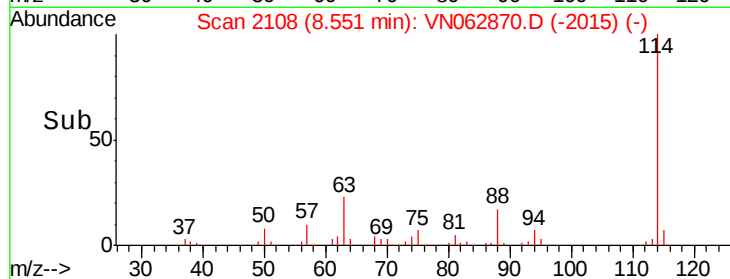
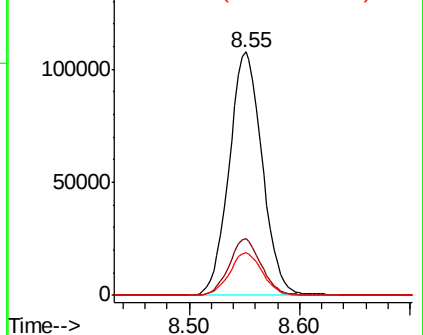
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062870.D
 Acq: 12 Aug 2020 20:38

Instrument :
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 TR-05-081120

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	47.6
88	17.4	0.0	34.4

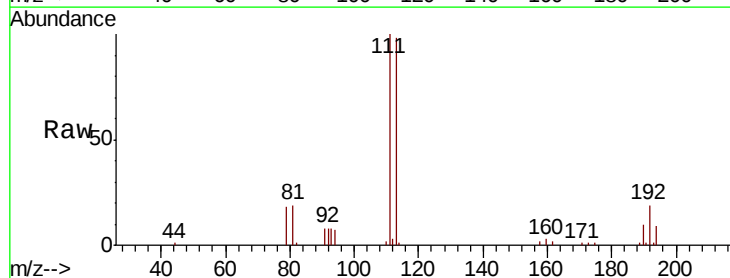


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

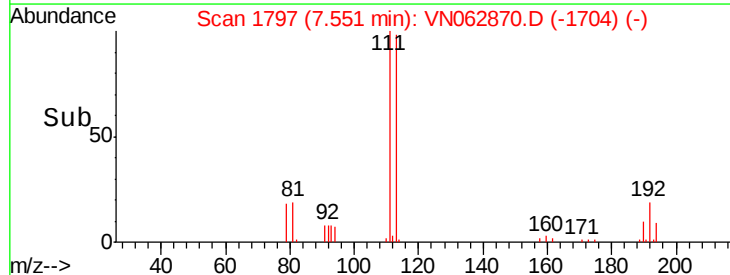
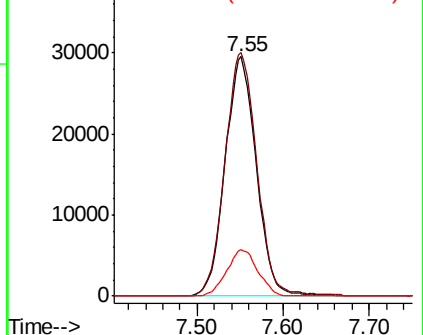


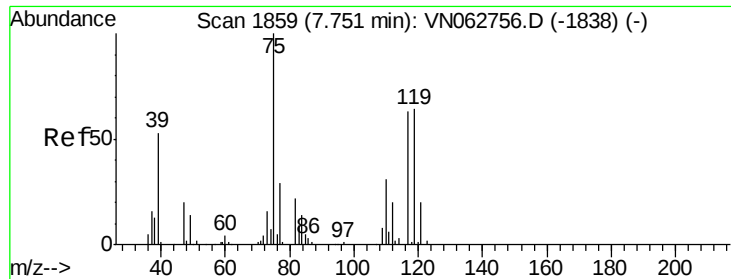
#35
 Dibromofluoromethane
 Concen: 48.627 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VN062870.D
 Acq: 12 Aug 2020 20:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.8	122.6
192	19.3	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: 4.725 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

TR-05-081120

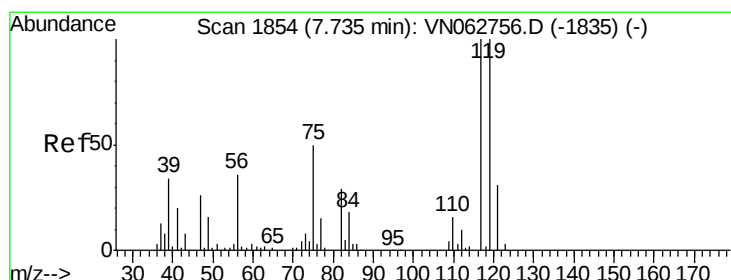
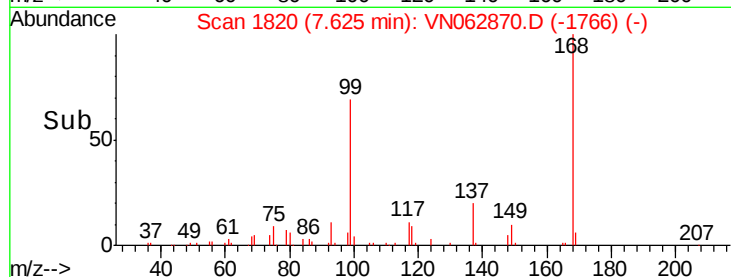
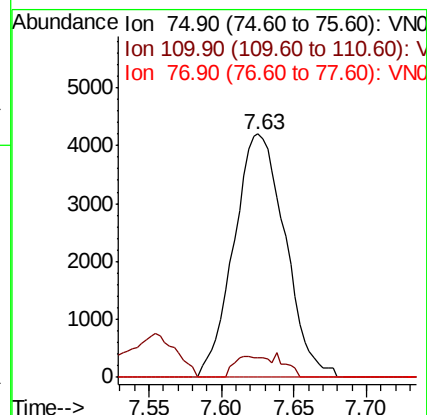
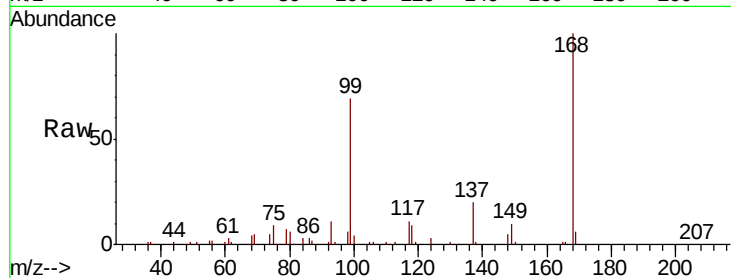
Tot Ion: 75 Resp: 10307

Ion Ratio Lower Upper

75 100

110 5.8 15.6 46.7#

77 0.0 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 4.802 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

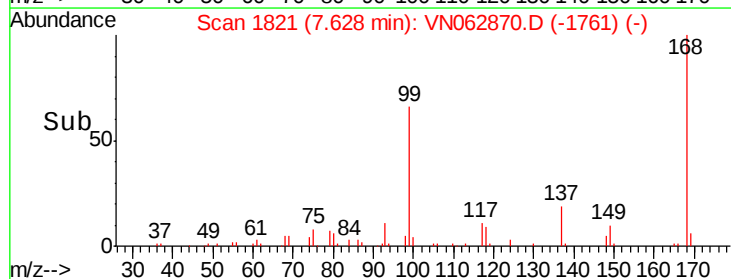
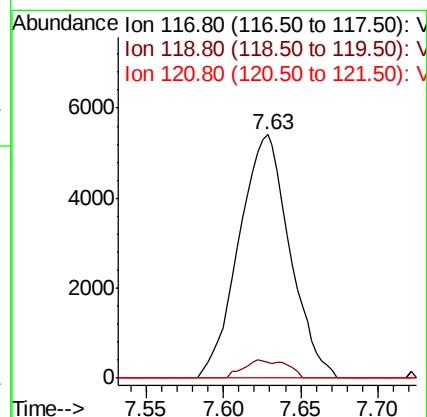
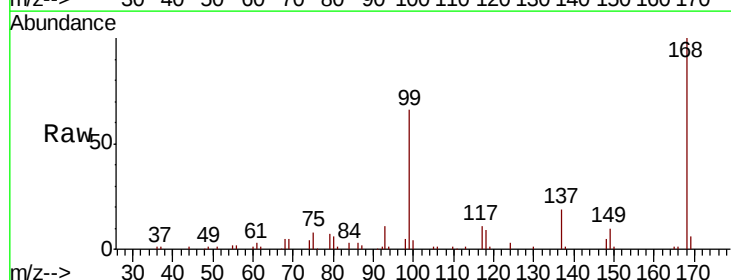
Tgt Ion: 117 Resp: 12389

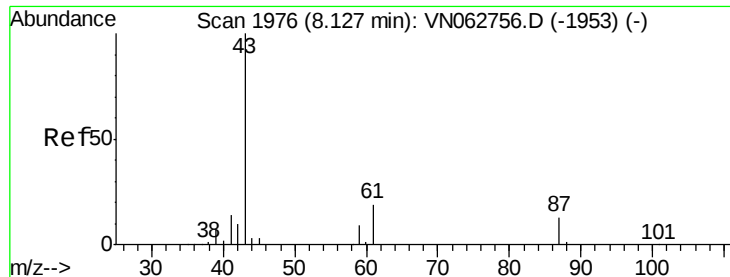
Ion Ratio Lower Upper

117 100

119 6.3 79.4 119.2#

121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 8.522 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

TR-05-081120

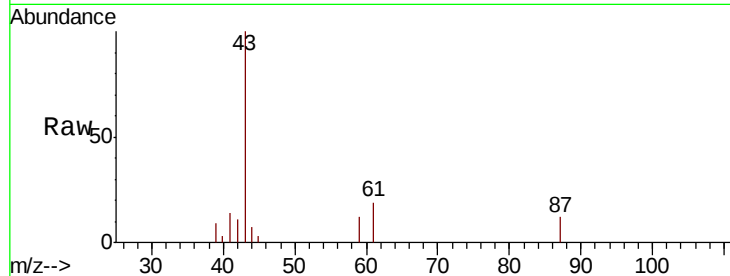
Tot Ion: 43 Resp: 32390

Ion Ratio Lower Upper

43 100

61 19.3 15.8 23.6

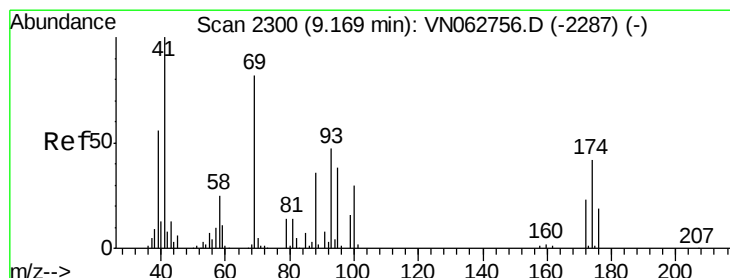
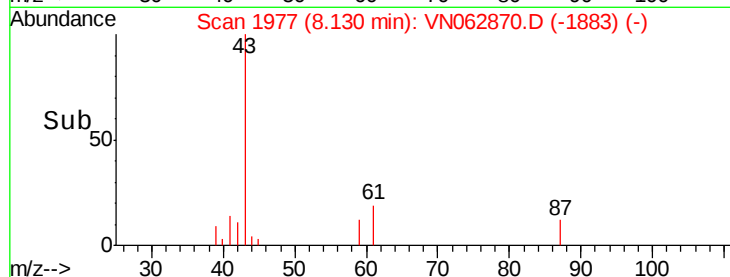
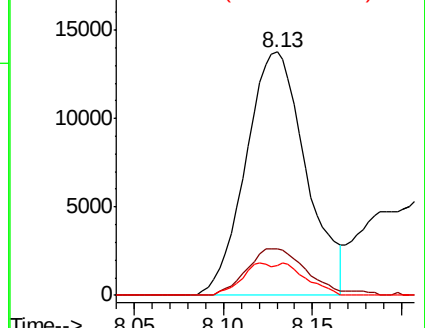
87 6.6 9.9 14.9#



Abundance Ion 43.00 (42.70 to 43.70): VN062870.D (-2207) (-)

Ion 61.00 (60.70 to 61.70): VN062870.D (-2207) (-)

Ion 87.00 (86.70 to 87.70): VN062870.D (-2207) (-)



#48

Methyl methacrylate

Concen: 1.241 ug/l

RT: 9.15 min Scan# 2295

Delta R.T. -0.02 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

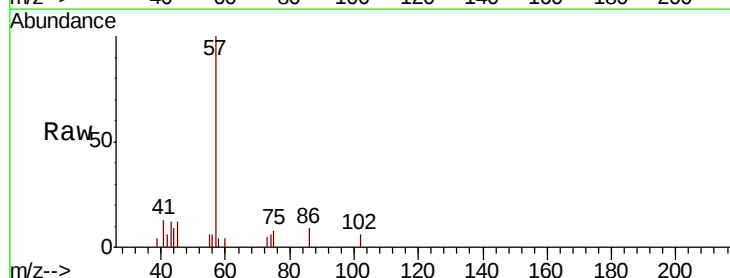
Tgt Ion: 41 Resp: 2320

Ion Ratio Lower Upper

41 100

69 0.0 67.4 101.2#

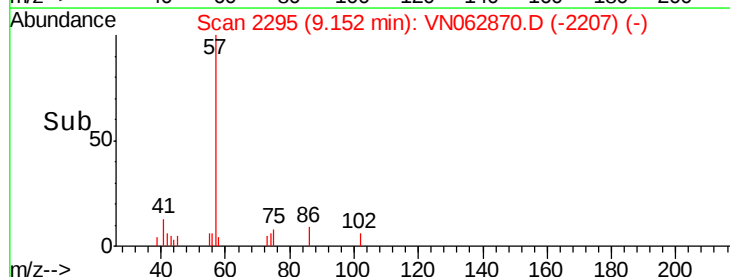
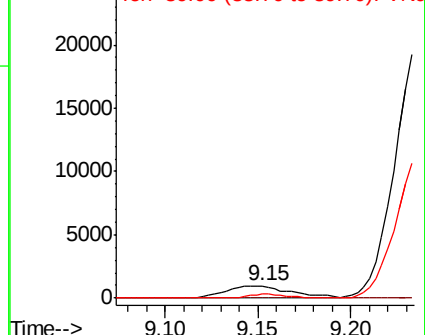
39 0.0 47.6 71.4#

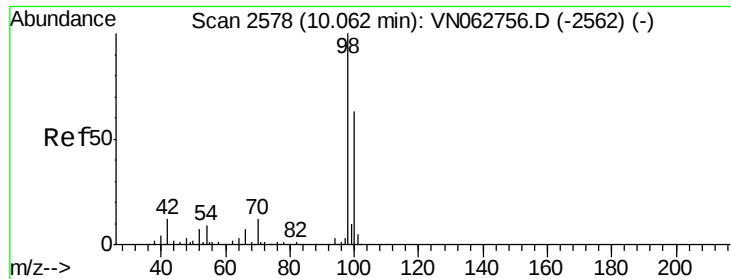


Abundance Ion 41.00 (40.70 to 41.70): VN062870.D (-2207) (-)

Ion 69.00 (68.70 to 69.70): VN062870.D (-2207) (-)

Ion 39.00 (38.70 to 39.70): VN062870.D (-2207) (-)

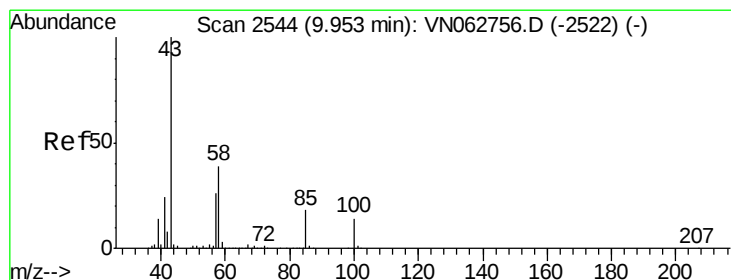
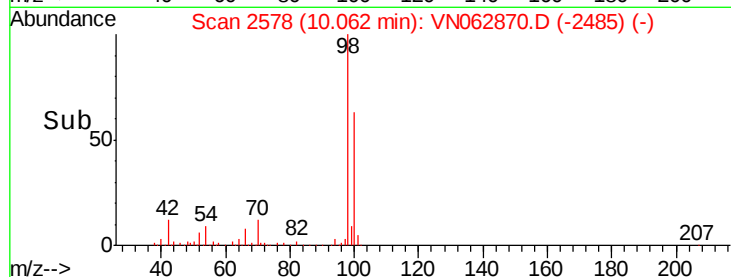
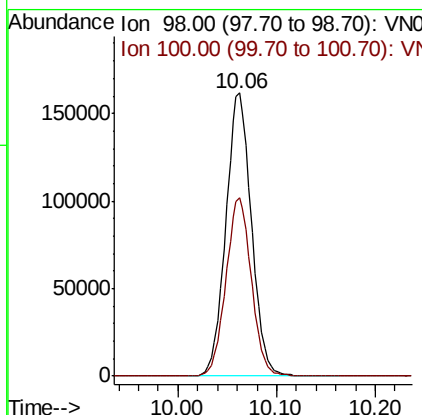
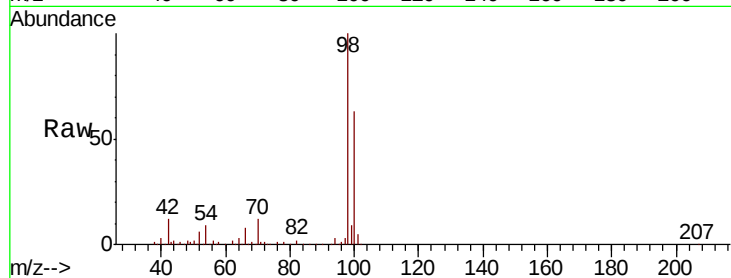




#50
Toluene-d8
Concen: 49.170 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. -0.00 min
Lab File: VN062870.D
Acq: 12 Aug 2020 20:38

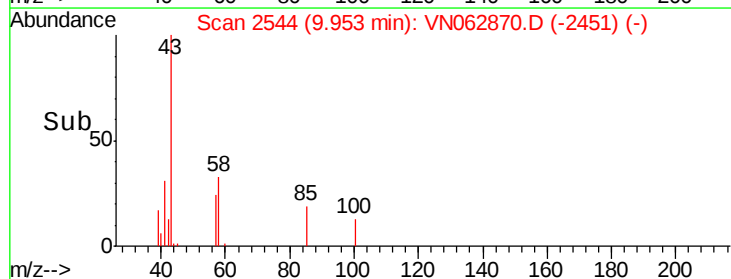
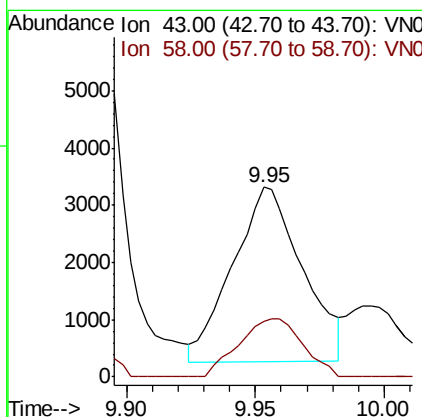
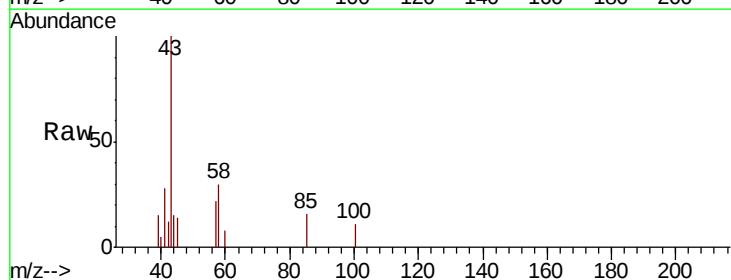
Instrument :
MSVOA_N
ClientSampleId :
TR-05-081120

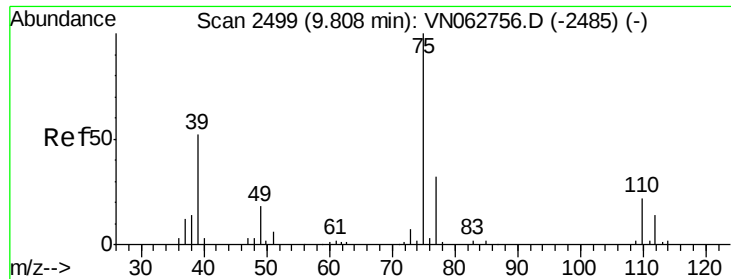
Tot Ion: 98 Resp: 294180
Ion Ratio Lower Upper
98 100
100 62.5 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 2.332 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062870.D
Acq: 12 Aug 2020 20:38

Tgt Ion: 43 Resp: 5734
Ion Ratio Lower Upper
43 100
58 30.6 31.1 46.7#





#54

cis-1,3-Dichloropropene

Concen: 5.059 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

TR-05-081120

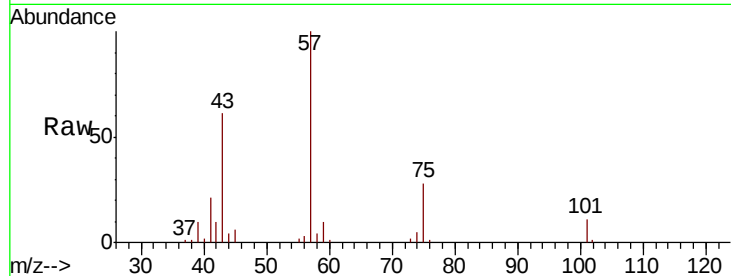
Tot Ion: 75 Resp: 14484

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

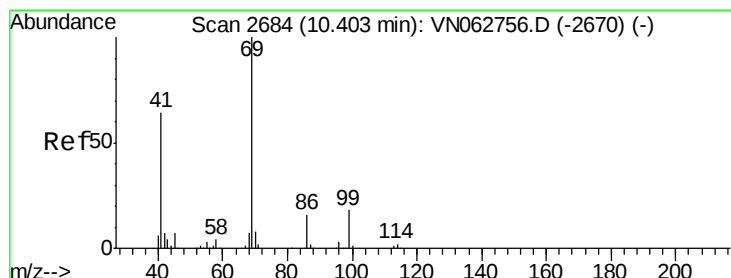
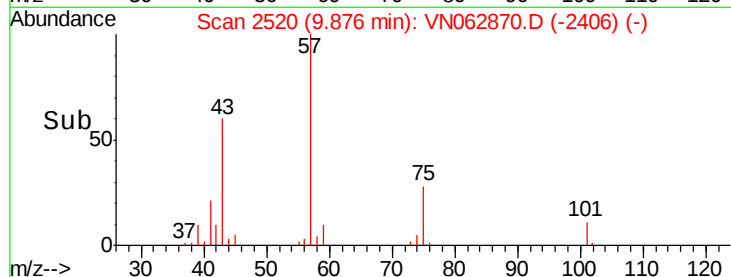
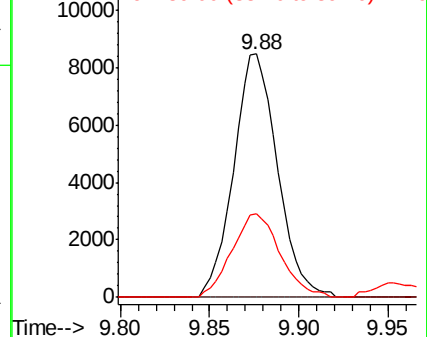
39 34.6 41.9 62.9#



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: 0.433 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.11 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

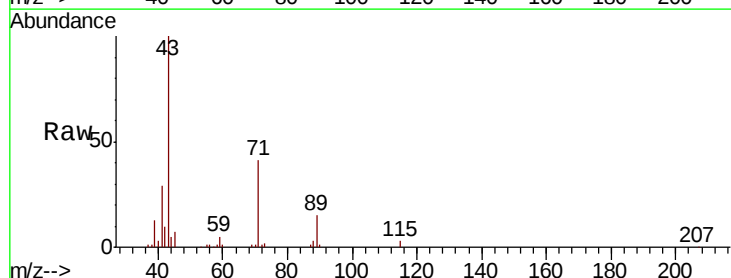
Tgt Ion: 69 Resp: 1119

Ion Ratio Lower Upper

69 100

41 2893.1 52.2 78.2#

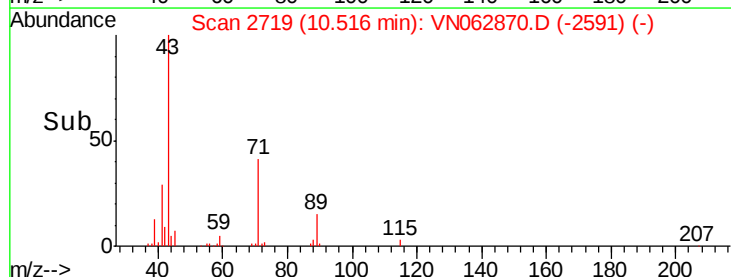
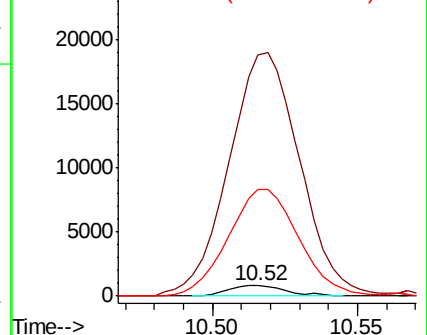
39 1263.8 30.9 46.3#

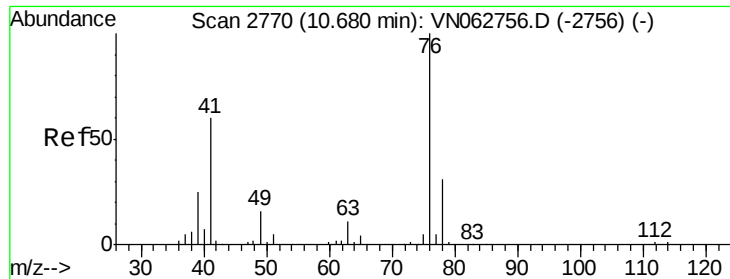


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

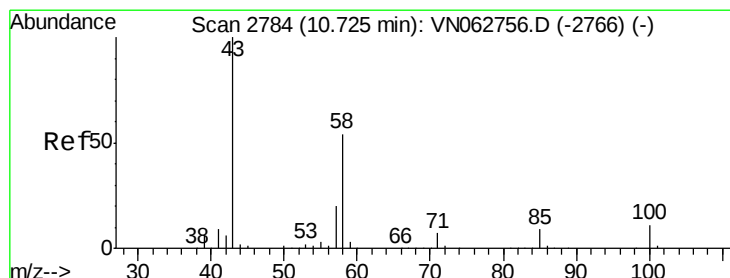
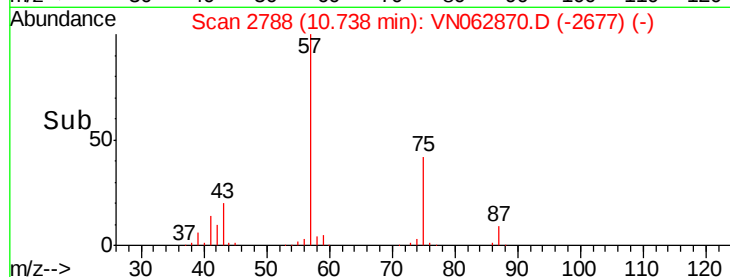
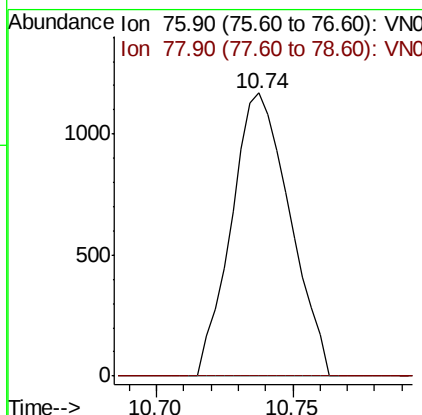
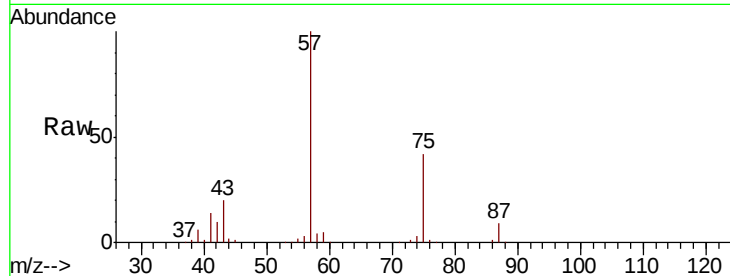




#57
 1,3-Dichloropropane
 Concen: 0.597 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062870.D
 Acq: 12 Aug 2020 20:38

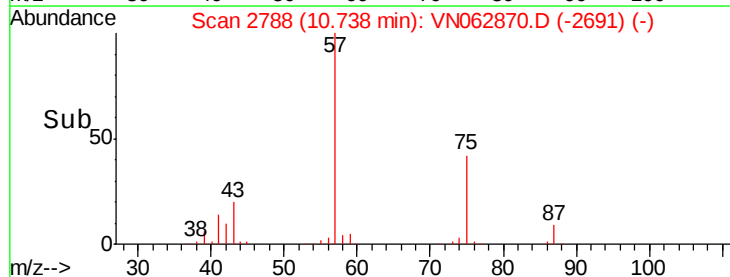
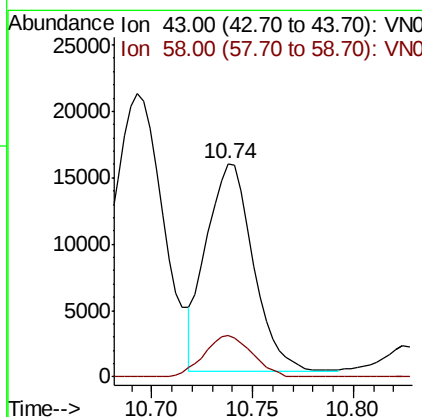
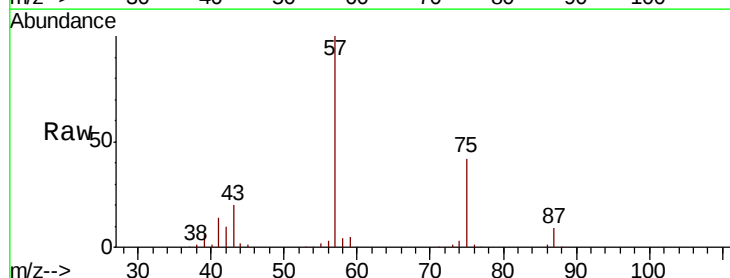
Instrument :
 MSVOA_N
 ClientSampled :
 TR-05-081120

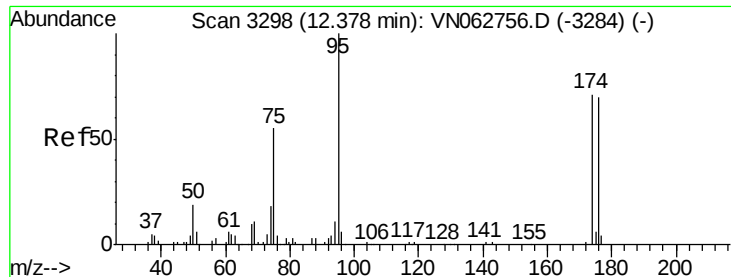
Tot Ion: 76 Resp: 1740
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 13.754 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN062870.D
 Acq: 12 Aug 2020 20:38

Tgt Ion: 43 Resp: 25229
 Ion Ratio Lower Upper
 43 100
 58 20.3 26.7 80.1#

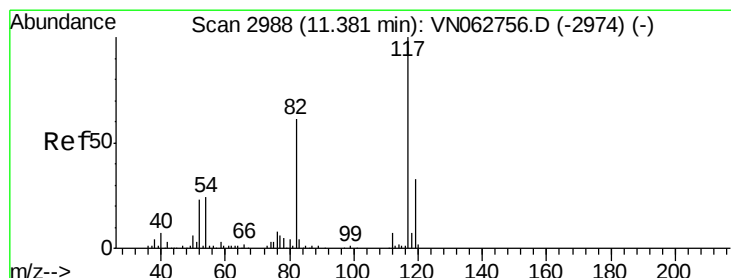
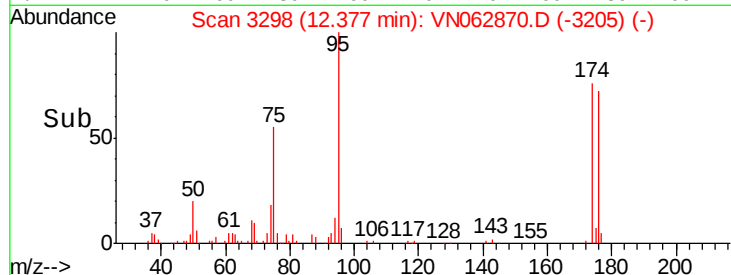
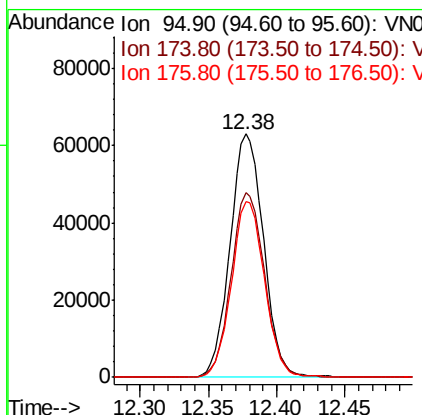
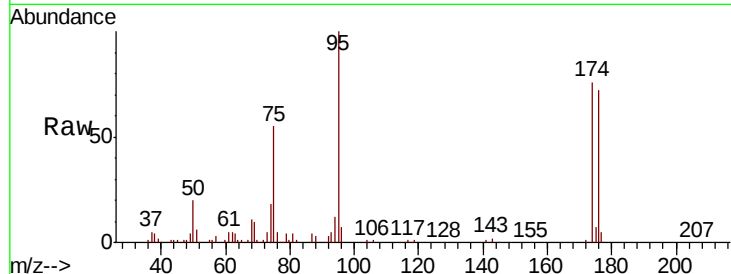




#62
 4-Bromofluorobenzene
 Concen: 47.552 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062870.D
 Acq: 12 Aug 2020 20:38

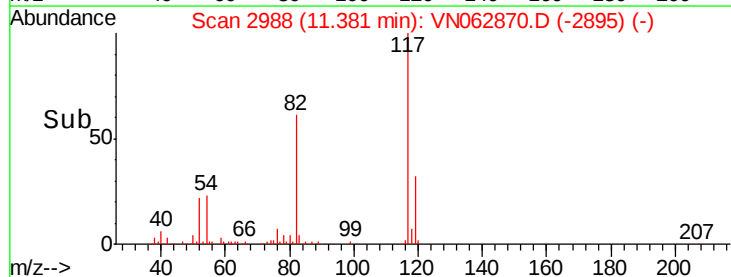
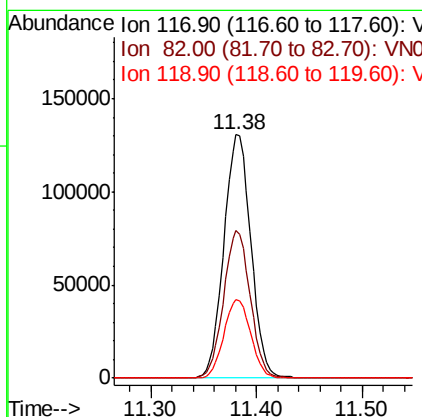
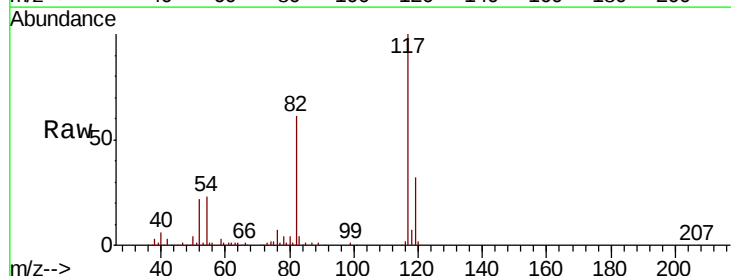
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-05-081120

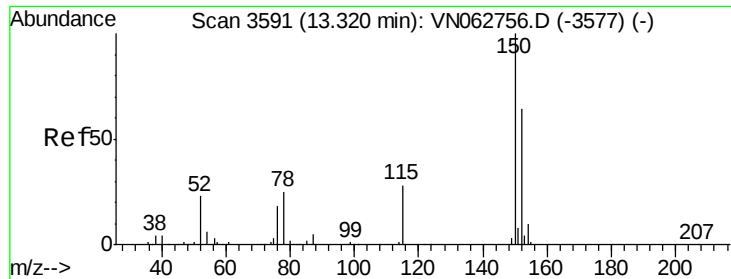
Tot Ion	95	Resp	107511
Ion Ratio	Lower	Upper	
95	100		
174	76.1	0.0	144.8
176	71.6	0.0	142.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. -0.00 min
 Lab File: VN062870.D
 Acq: 12 Aug 2020 20:38

Tgt Ion	117	Resp	231630
Ion Ratio	Lower	Upper	
117	100		
82	60.7	49.0	73.4
119	32.4	26.2	39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

TR-05-081120

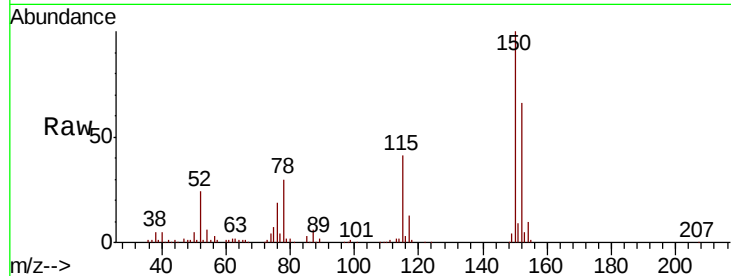
Tot Ion:152 Resp: 85917

Ion Ratio Lower Upper

152 100

115 62.3 31.6 94.8

150 157.1 0.0 349.2

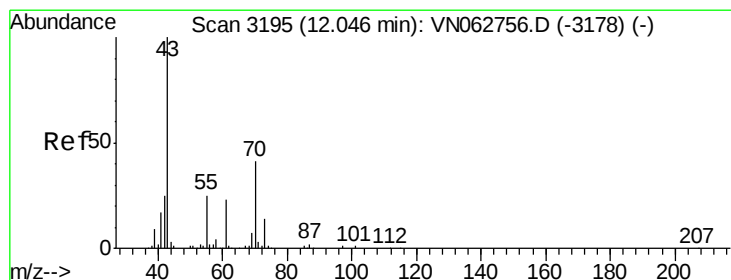
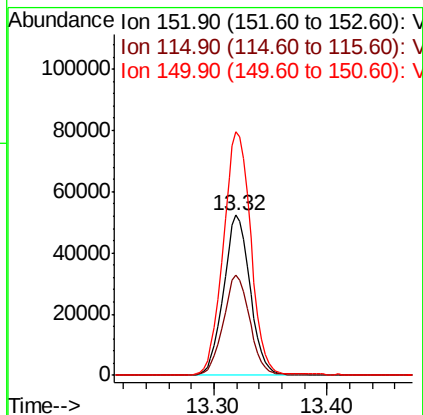
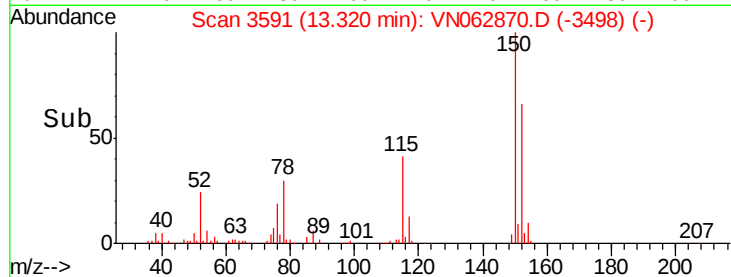


Abundance

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: 0.483 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

Tgt Ion: 43 Resp: 1267

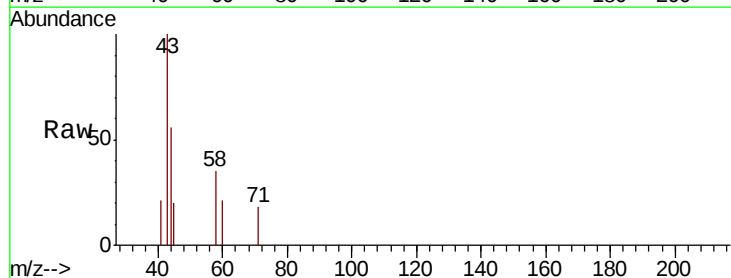
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#



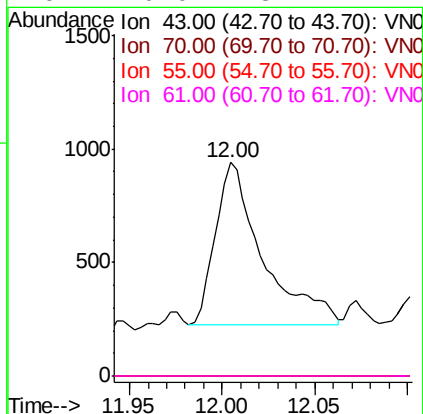
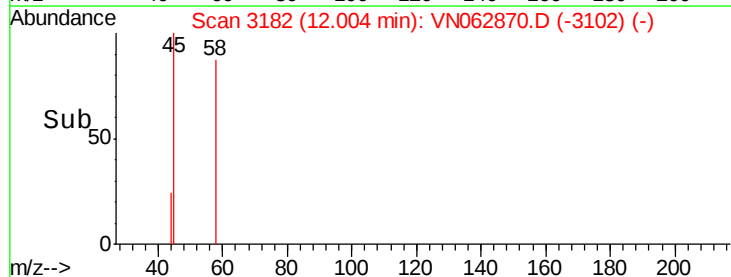
Abundance

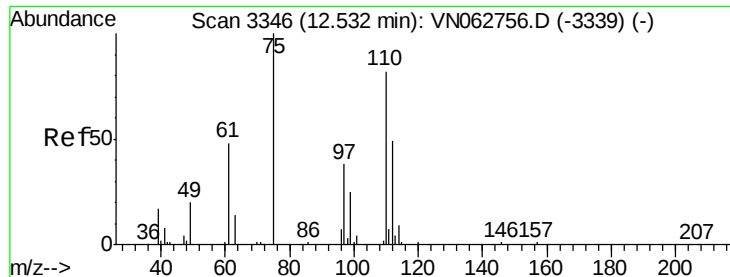
Ion 43.00 (42.70 to 43.70): V

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: 25.217 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

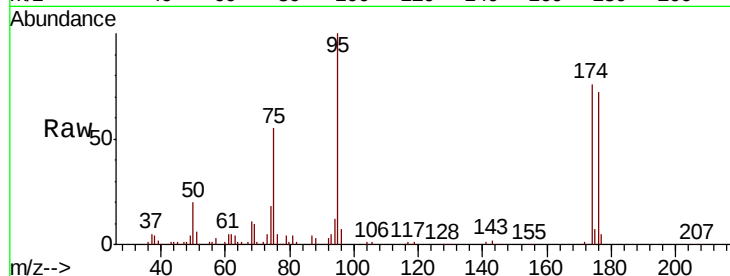
TR-05-081120

Tot Ion: 75 Resp: 58431

Ion Ratio Lower Upper

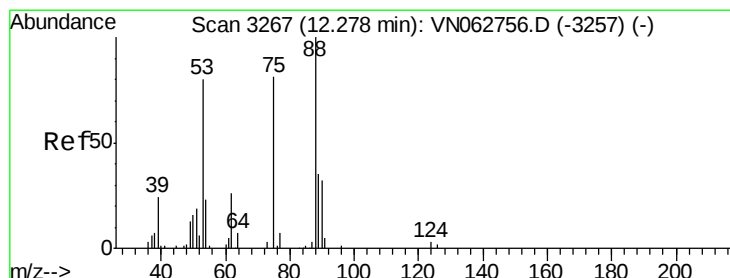
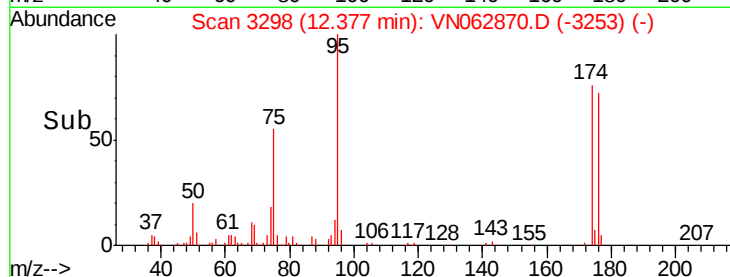
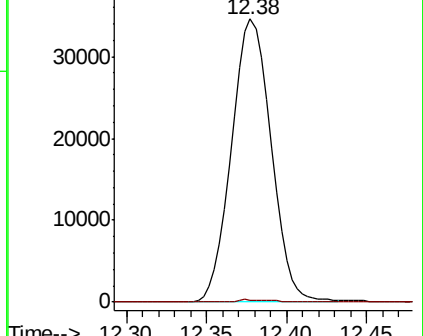
75 100

77 0.4 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: 76.982 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062870.D

Acq: 12 Aug 2020 20:38

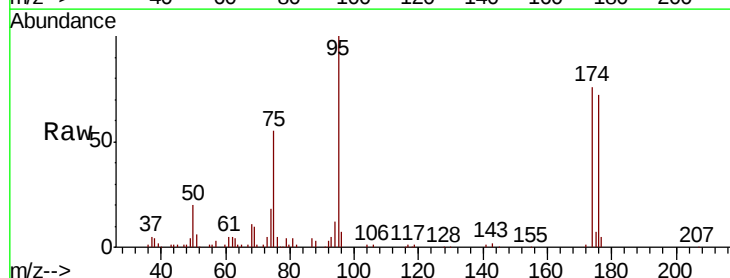
Tgt Ion: 75 Resp: 58431

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

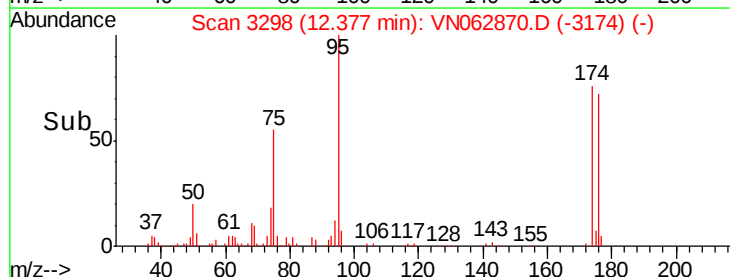
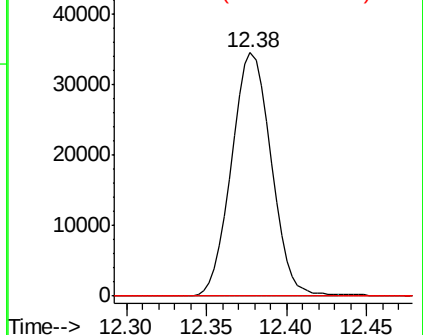
89 0.0 36.2 54.2#

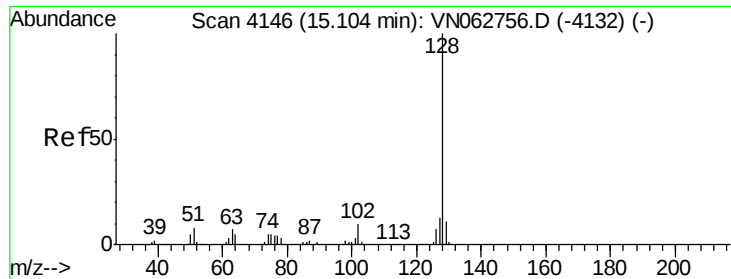


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 3.787 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062870.D

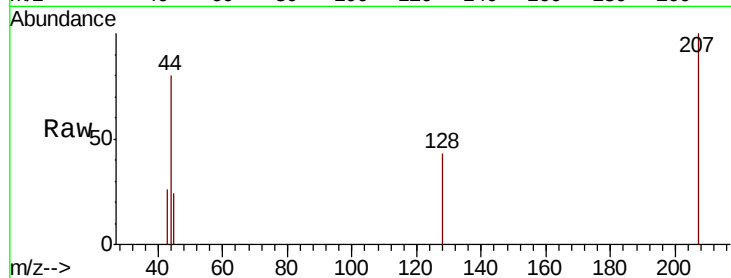
Acq: 12 Aug 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

TR-05-081120



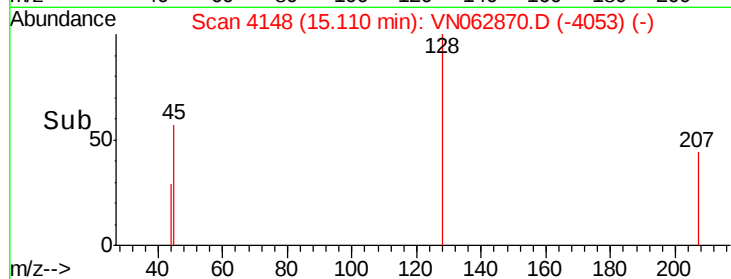
Tot Ion:128 Resp: 337

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

