

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080720\
 Data File : VN062788.D
 Acq On : 7 Aug 2020 18:53
 Operator : JC/MD
 Sample : L3508-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-080620

Quant Time: Aug 08 02:15:15 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	128114	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	231797	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	225493	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	83687	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	108091	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
35) Dibromofluoromethane	7.55	113	80768	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
50) Toluene-d8	10.06	98	295492	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	
62) 4-Bromofluorobenzene	12.38	95	105188	44.96	ug/l	0.00
Spiked Amount			Recovery	=	89.92%	

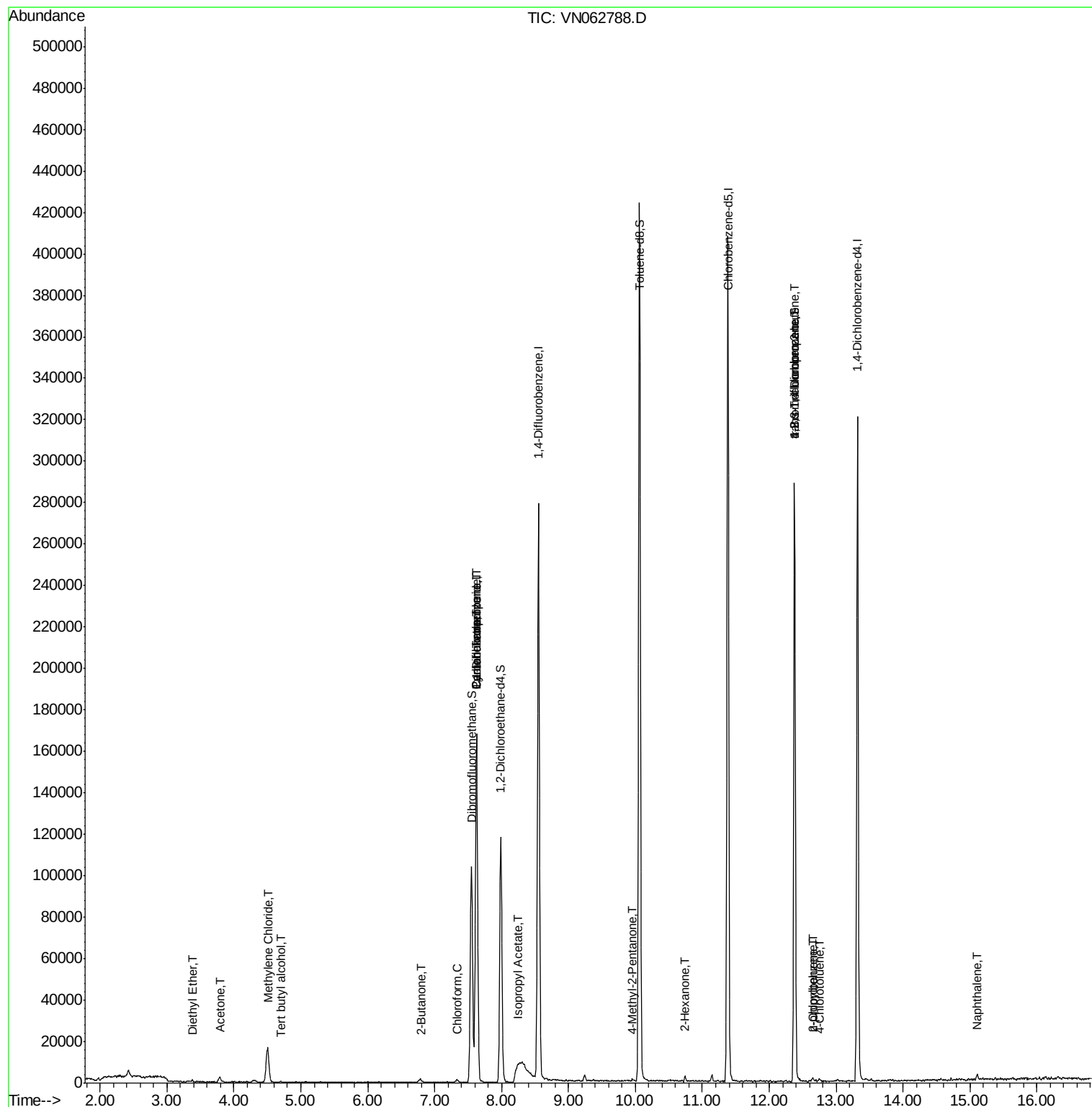
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	339	0.409	ug/l	78
11) Tert butyl alcohol	4.70	59	216	0.622	ug/l #	72
16) Acetone	3.79	43	4798	6.268	ug/l	92
17) Carbon Disulfide	4.01	76	202	Below Cal	#	74
18) Methyl Acetate	4.28	43	1886	Below Cal	#	71
20) Methylene Chloride	4.50	84	12243	8.102	ug/l	96
25) 2-Butanone	6.80	43	368	0.339	ug/l #	49
30) Chloroform	7.33	83	1810	0.609	ug/l	98
31) Cyclohexane	7.63	56	3075	1.197	ug/l #	15
36) 1,1-Dichloropropene	7.63	75	10789	4.780	ug/l #	52
38) Carbon Tetrachloride	7.63	117	13875	5.198	ug/l #	16
43) Isopropyl Acetate	8.24	43	7252	1.844	ug/l #	61
51) 4-Methyl-2-Pentanone	9.96	43	998	0.392	ug/l #	74
59) 2-Hexanone	10.74	43	742	0.391	ug/l #	25
76) 1,2,3-Trichloropropane	12.38	75	54814	24.287	ug/l #	100
78) n-propylbenzene	12.65	91	1494	0.202	ug/l #	54
79) 2-Chlorotoluene	12.65	91	1494	0.322	ug/l	77
81) trans-1,4-Dichloro-2-buten	12.38	75	54814	74.141	ug/l #	10
82) 4-Chlorotoluene	12.75	91	1494	0.313	ug/l	98
95) Naphthalene	15.11	128	3072	4.447	ug/l #	87

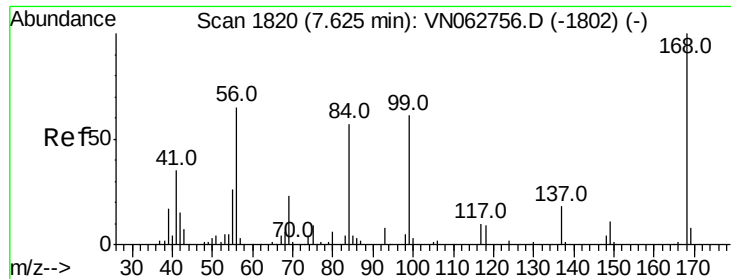
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

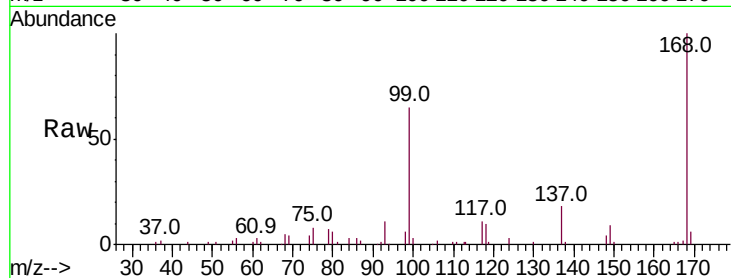
TR-04-080620

Tot Ion:168 Resp: 128114

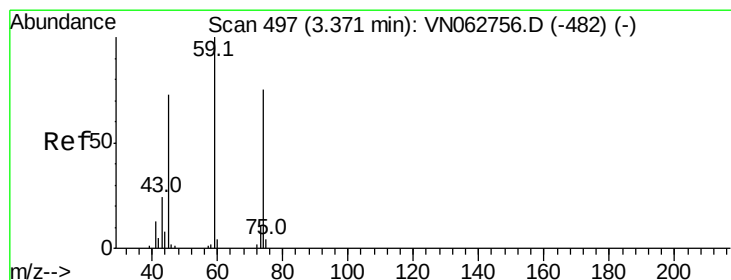
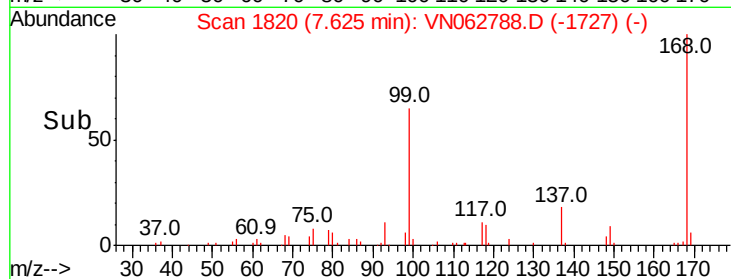
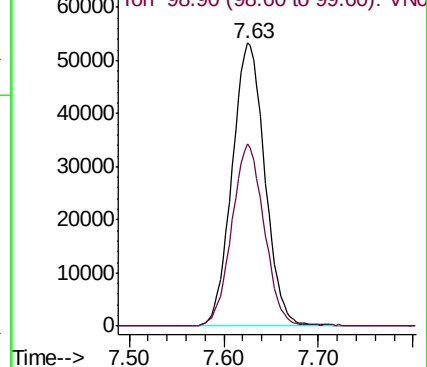
Ion Ratio Lower Upper

168 100

99 64.5 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): VN062756.D (-1802) (-)



#8

Diethyl Ether

Concen: 0.409 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN062788.D

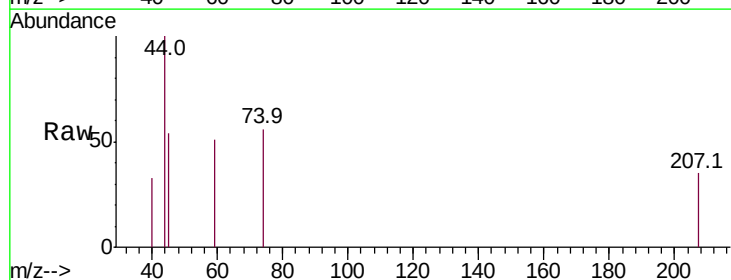
Acq: 7 Aug 2020 18:53

Tgt Ion: 74 Resp: 339

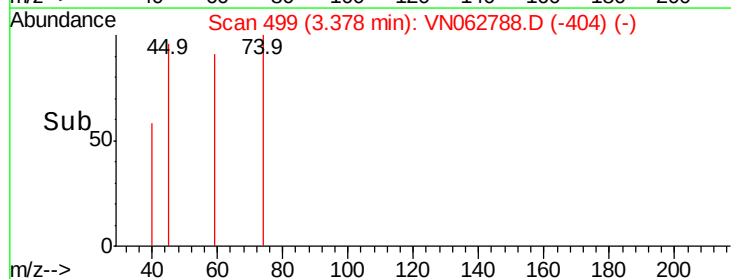
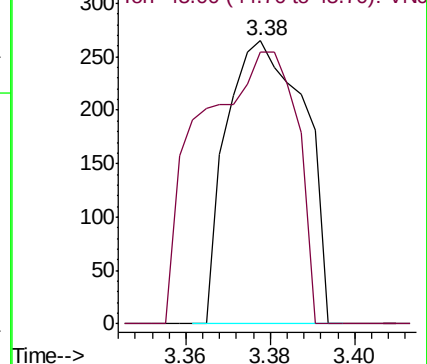
Ion Ratio Lower Upper

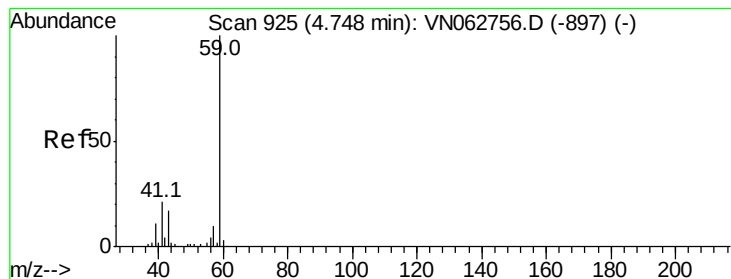
74 100

45 119.5 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VN062756.D (-482) (-)



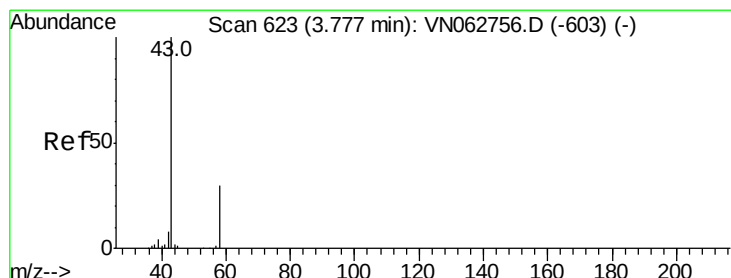
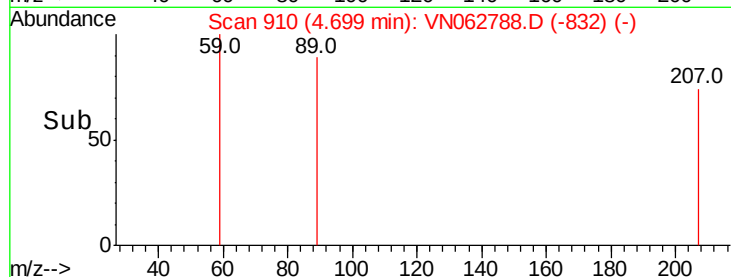
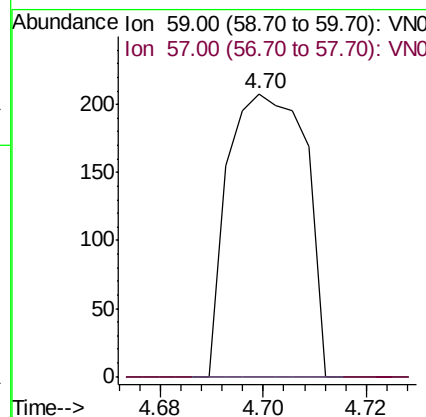
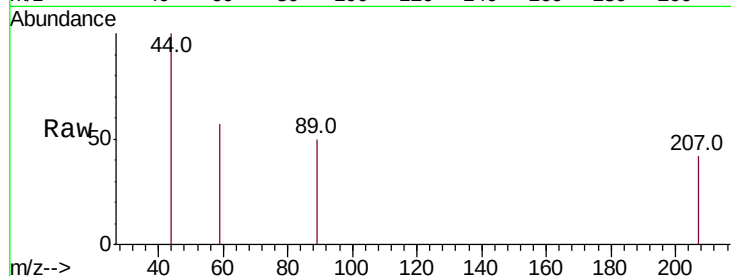


#11

Tert butyl alcohol
 Concen: 0.622 ug/l
 RT: 4.70 min Scan# 910
 Delta R.T. -0.05 min
 Lab File: VN062788.D
 Acq: 7 Aug 2020 18:53

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-080620

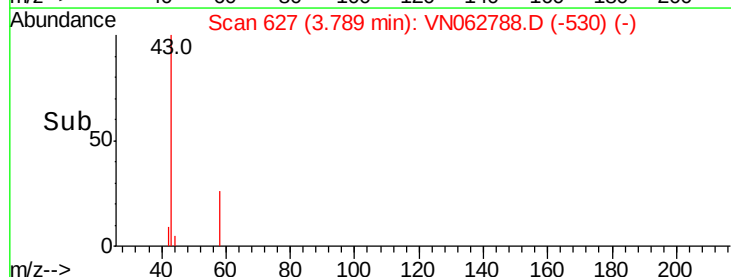
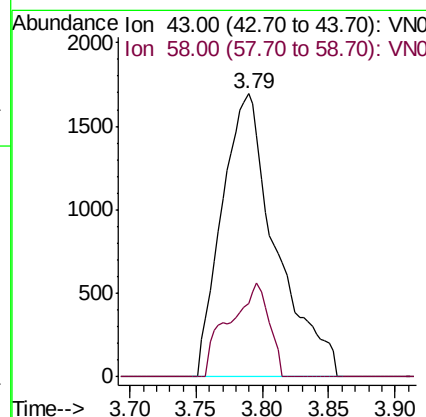
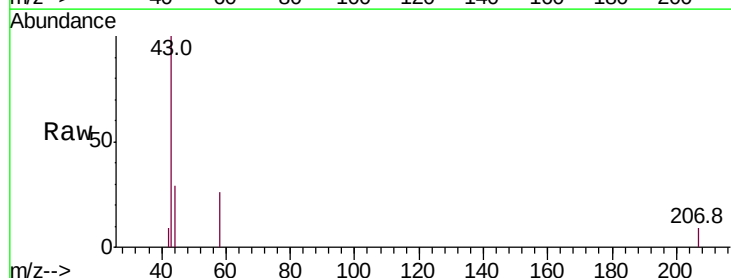
Tot Ion: 59 Resp: 216
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

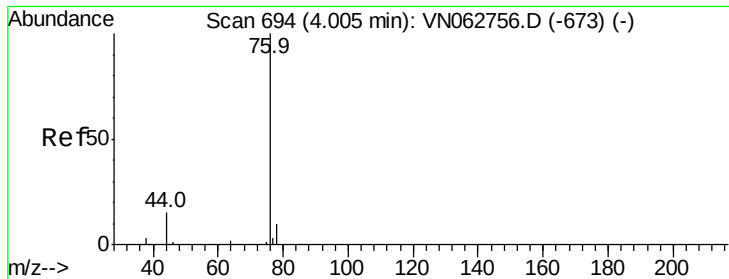


#16

Acetone
 Concen: 6.268 ug/l
 RT: 3.79 min Scan# 627
 Delta R.T. 0.01 min
 Lab File: VN062788.D
 Acq: 7 Aug 2020 18:53

Tgt Ion: 43 Resp: 4798
 Ion Ratio Lower Upper
 43 100
 58 25.7 24.1 36.1





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampled :

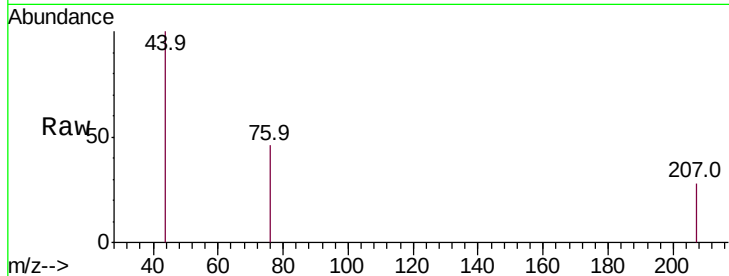
TR-04-080620

Tot Ion: 76 Resp: 202

Ion Ratio Lower Upper

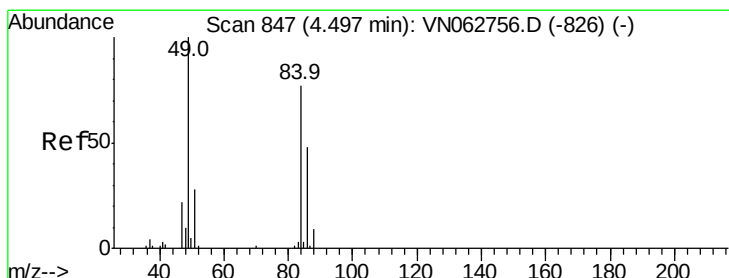
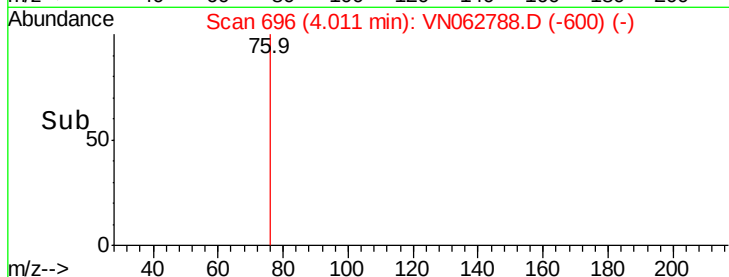
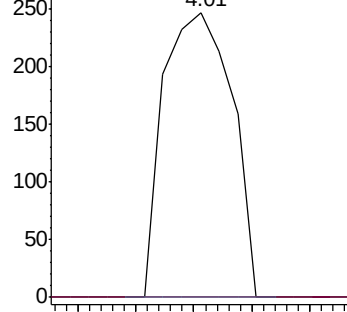
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#20

Methylene Chloride

Concen: 8.102 ug/l

RT: 4.50 min Scan# 849

Delta R.T. 0.01 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Tgt Ion: 84 Resp: 12243

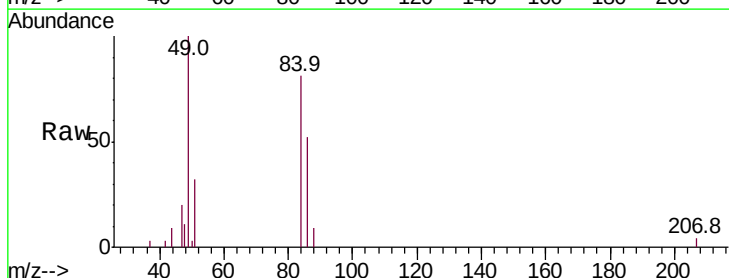
Ion Ratio Lower Upper

84 100

49 123.0 103.4 155.2

51 38.8 29.3 43.9

86 64.0 49.9 74.9

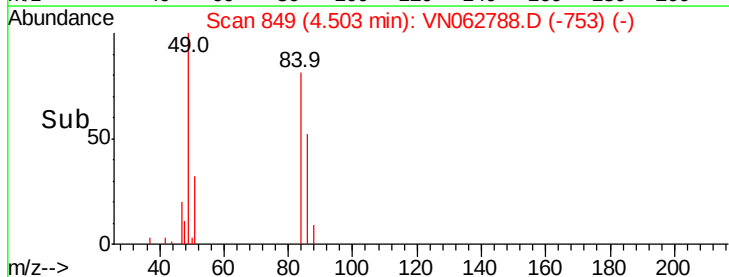
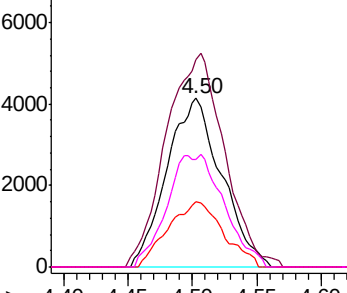


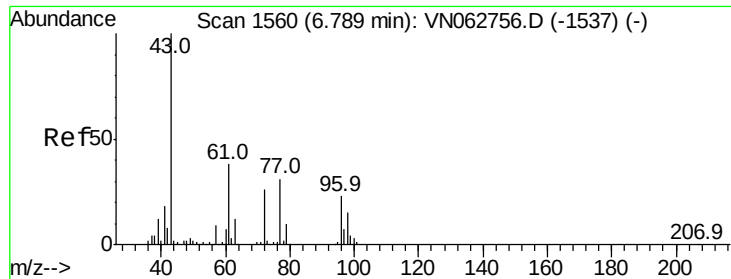
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

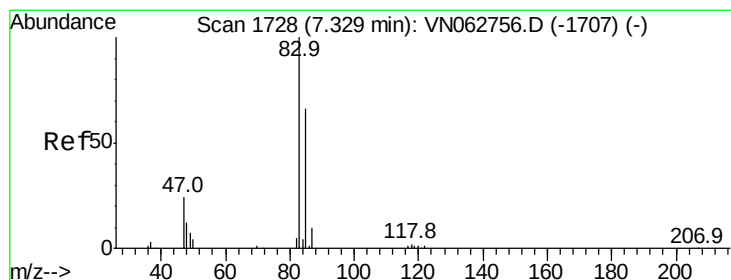
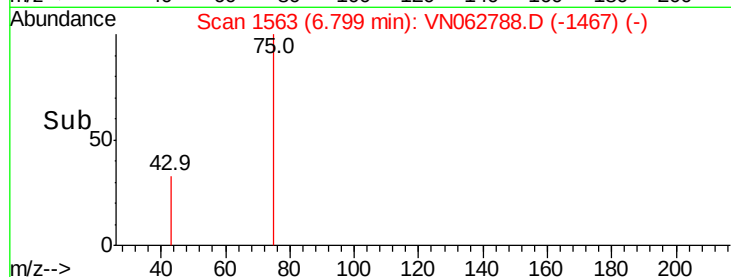
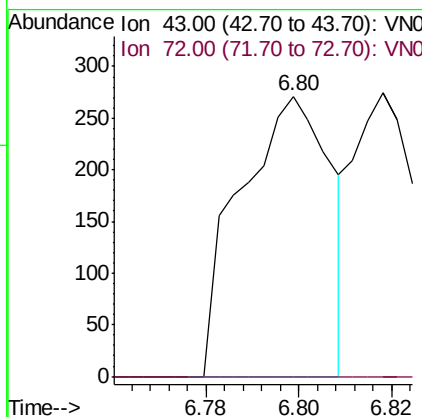
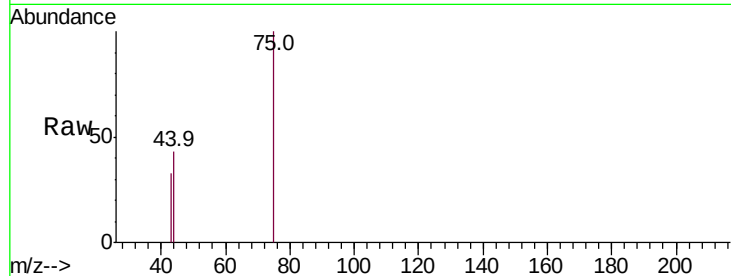




#25
2-Butanone
Concen: 0.339 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062788.D
Acq: 7 Aug 2020 18:53

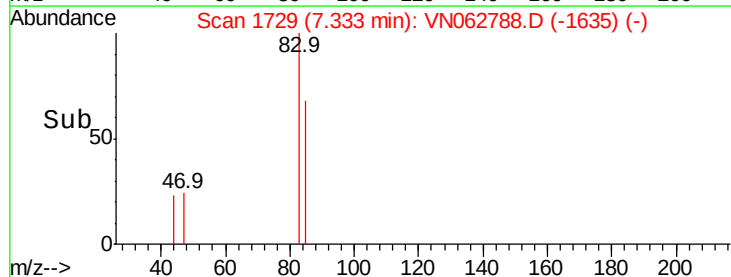
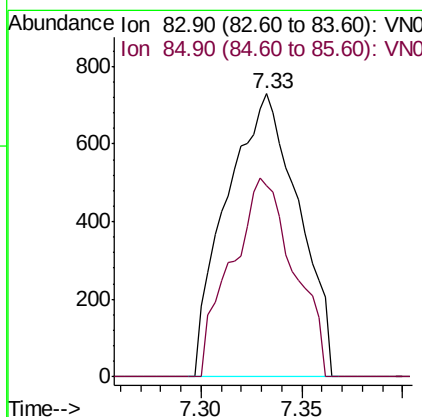
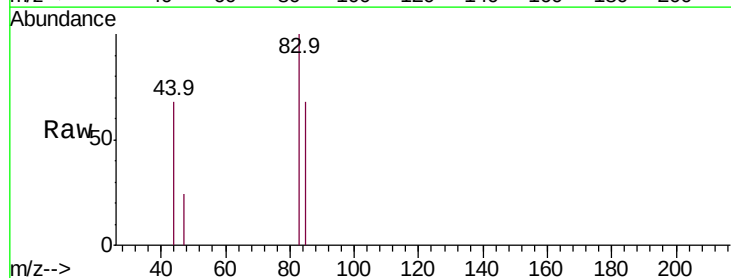
Instrument :
MSVOA_N
ClientSampleId :
TR-04-080620

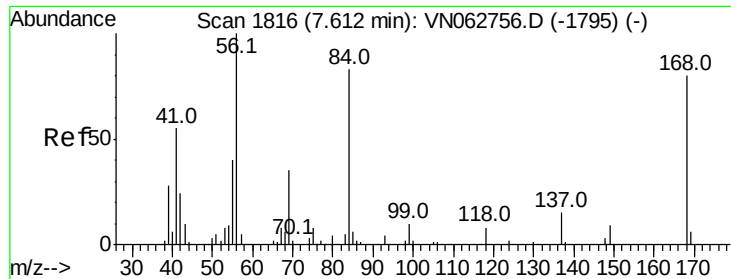
Tot Ion: 43 Resp: 368
Ion Ratio Lower Upper
43 100
72 0.0 21.1 31.7#



#30
Chloroform
Concen: 0.609 ug/l
RT: 7.33 min Scan# 1729
Delta R.T. 0.00 min
Lab File: VN062788.D
Acq: 7 Aug 2020 18:53

Tgt Ion: 83 Resp: 1810
Ion Ratio Lower Upper
83 100
85 67.8 52.7 79.1

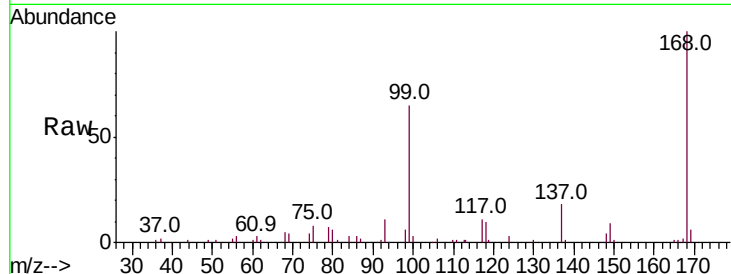




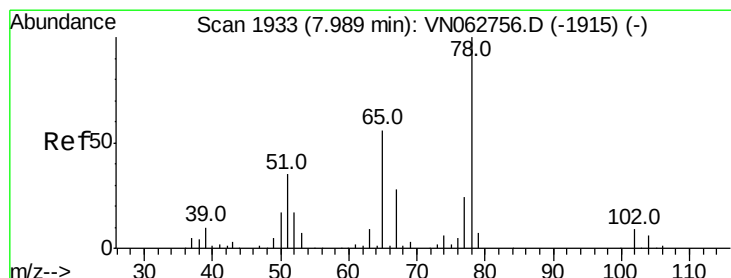
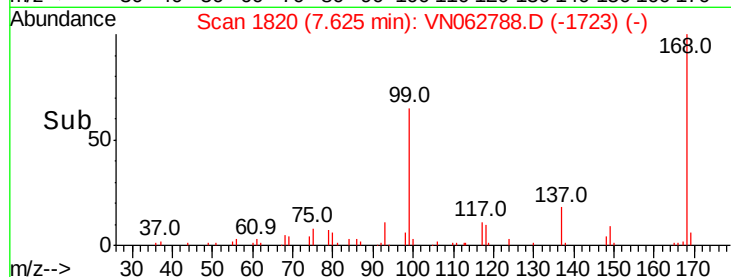
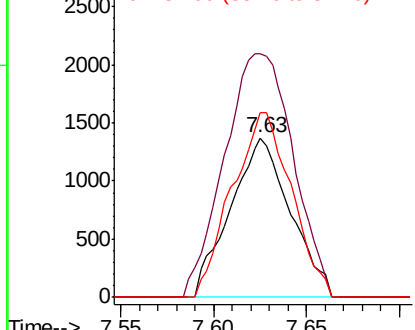
#31
Cyclohexane
Concen: 1.197 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062788.D
Acq: 7 Aug 2020 18:53

Instrument :
MSVOA_N
ClientSampled :
TR-04-080620

Tot Ion: 56 Resp: 3075
Ion Ratio Lower Upper
56 100
69 152.9 28.1 42.1#
84 115.8 66.8 100.2#

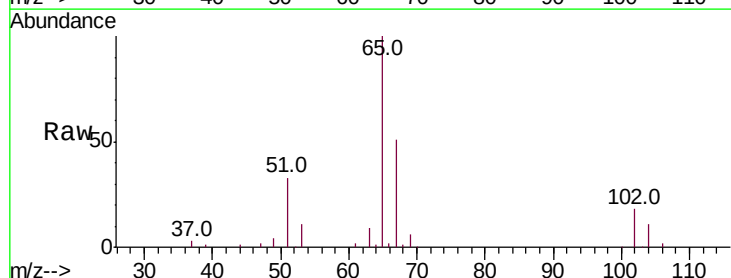


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

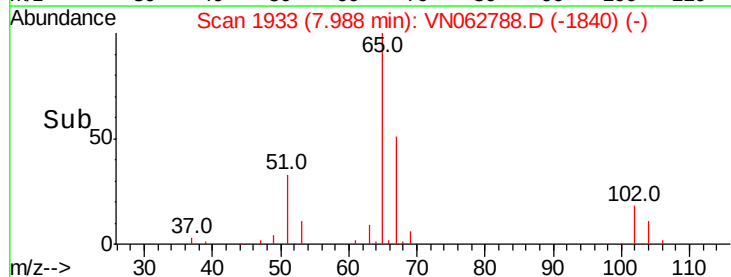
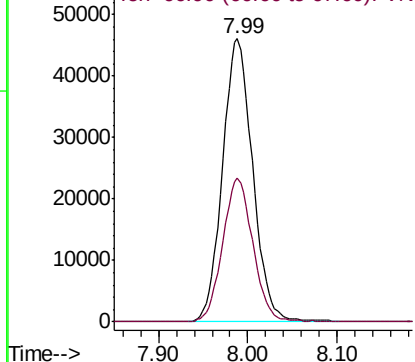


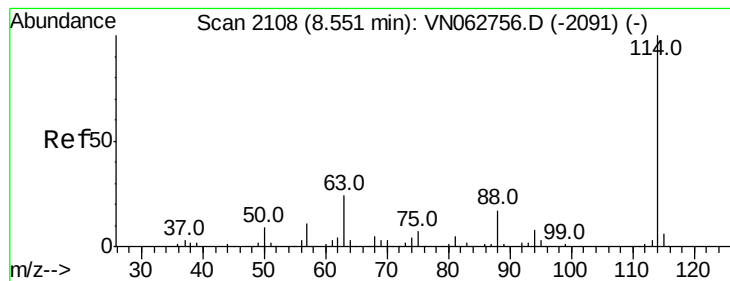
#33
1,2-Dichloroethane-d4
Concen: 51.020 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062788.D
Acq: 7 Aug 2020 18:53

Tgt Ion: 65 Resp: 108091
Ion Ratio Lower Upper
65 100
67 50.8 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TR-04-080620

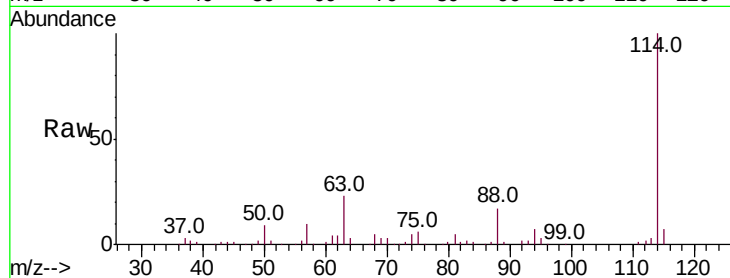
Tot Ion:114 Resp: 231797

Ion Ratio Lower Upper

114 100

63 22.6 0.0 47.6

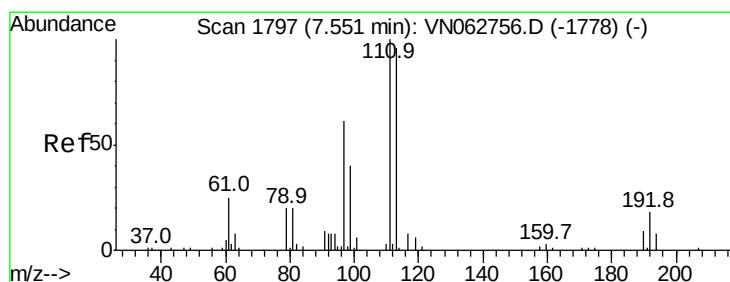
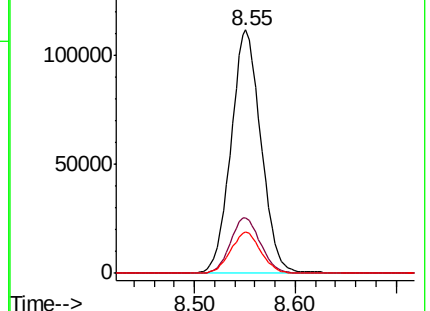
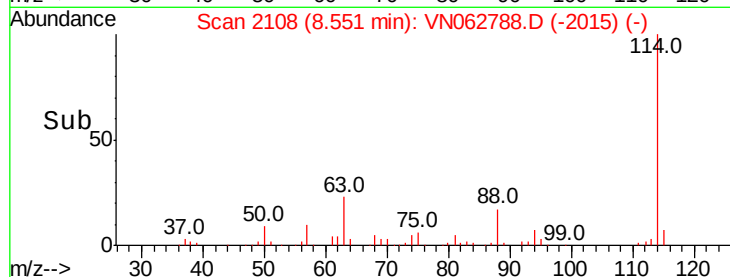
88 16.9 0.0 34.4



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: 50.938 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

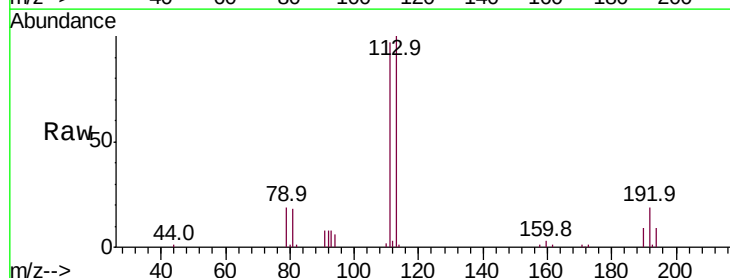
Tgt Ion:113 Resp: 80768

Ion Ratio Lower Upper

113 100

111 101.2 81.8 122.6

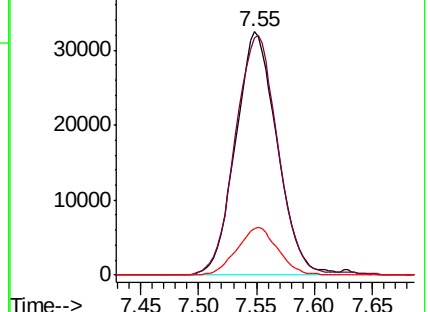
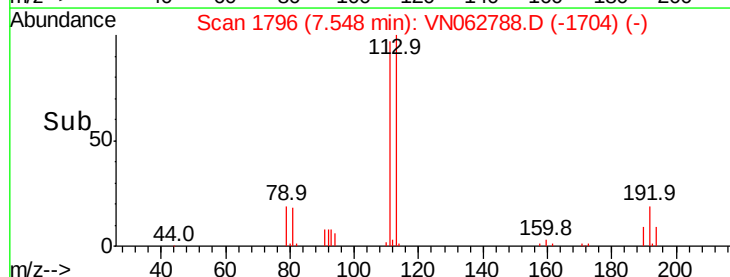
192 19.2 15.0 22.4

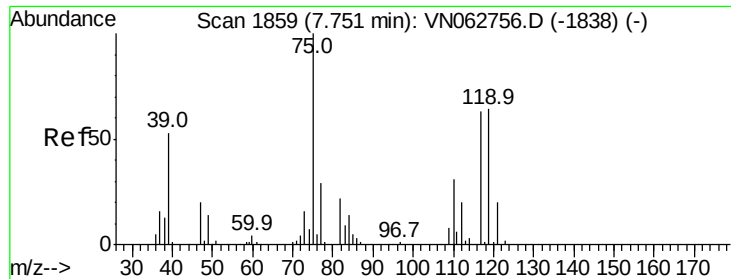


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

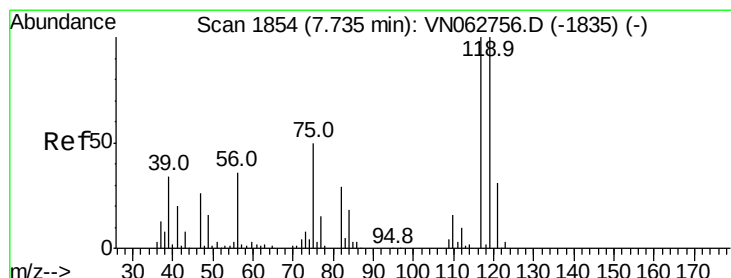
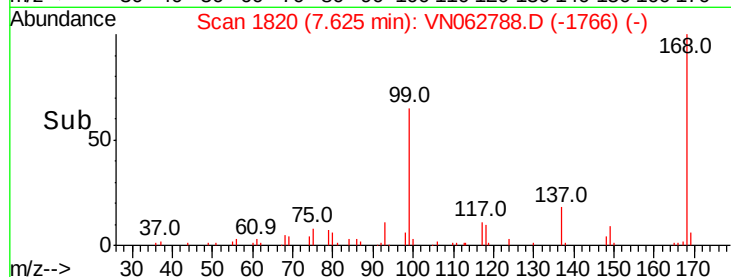
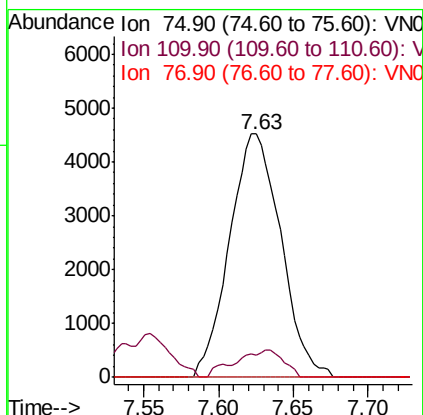
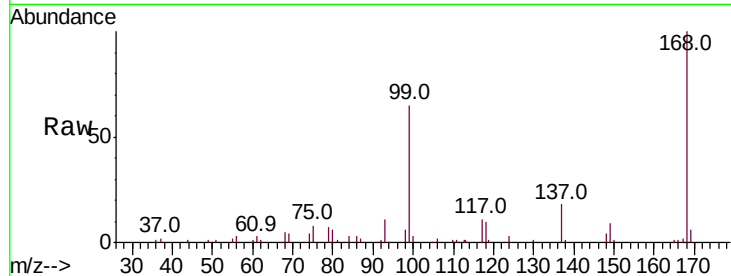




#36
 1,1-Dichloropropene
 Concen: 4.780 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062788.D
 Acq: 7 Aug 2020 18:53

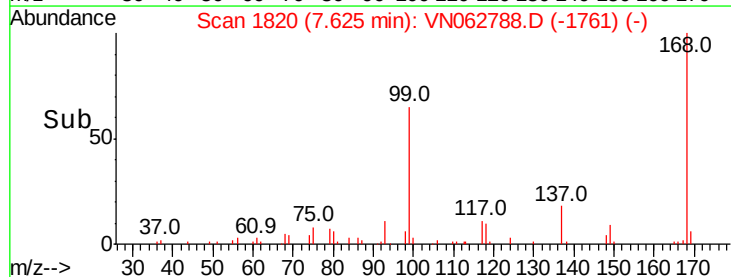
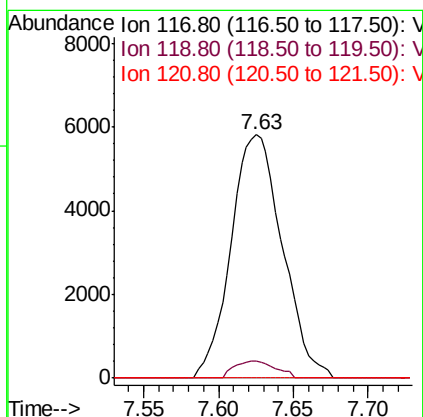
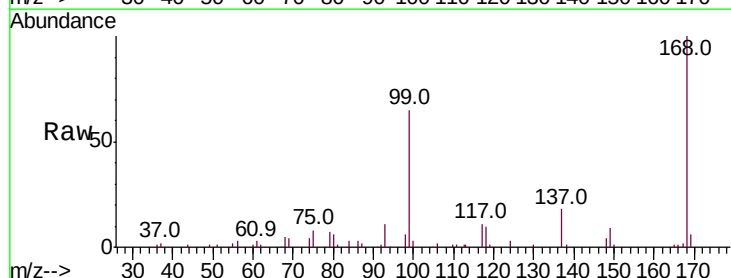
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-080620

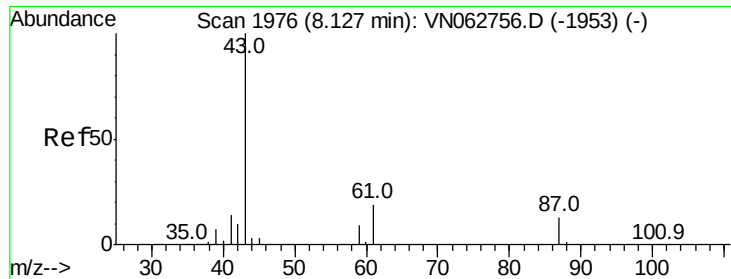
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	15.6	46.7#
77	0.0	24.1	36.1#



#38
 Carbon Tetrachloride
 Concen: 5.198 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062788.D
 Acq: 7 Aug 2020 18:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.0	79.4	119.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 1.844 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.11 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TR-04-080620

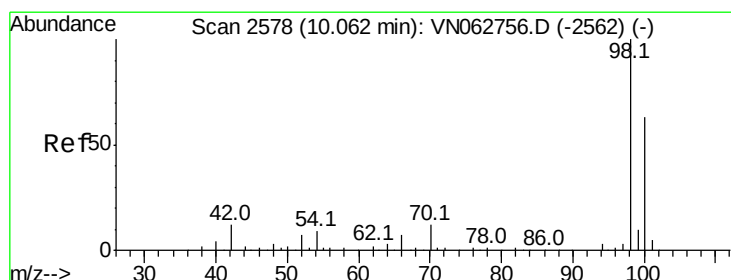
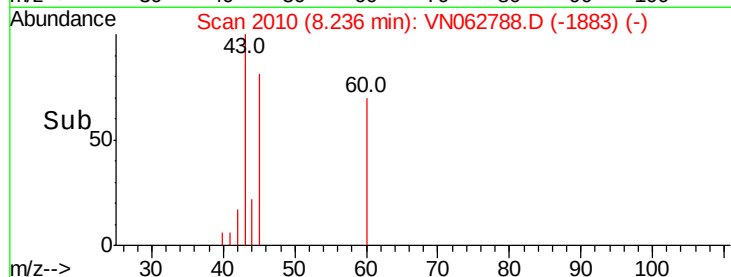
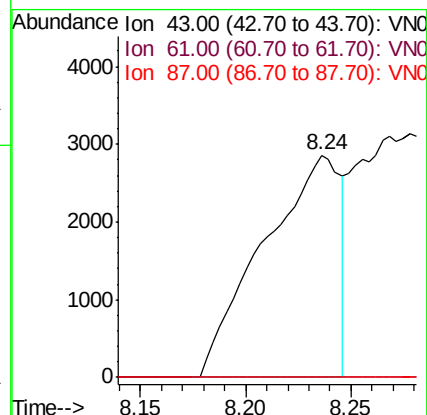
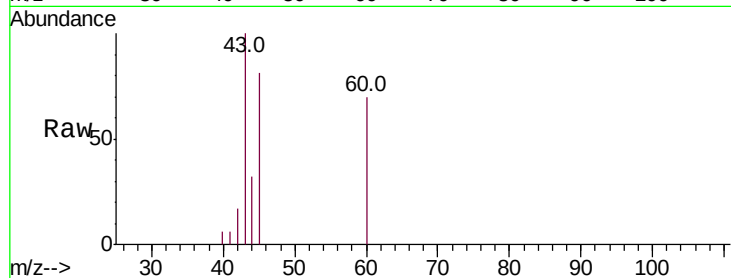
Tot Ion: 43 Resp: 7252

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

87 0.0 9.9 14.9#



#50

Toluene-d8

Concen: 47.734 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062788.D

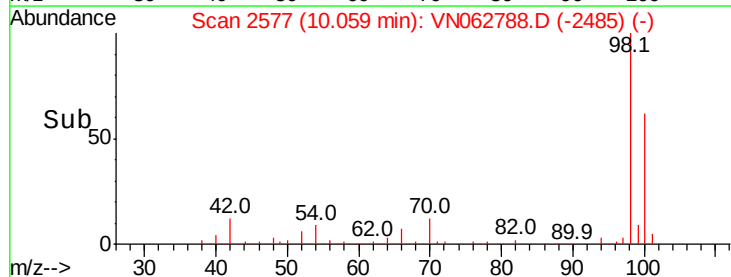
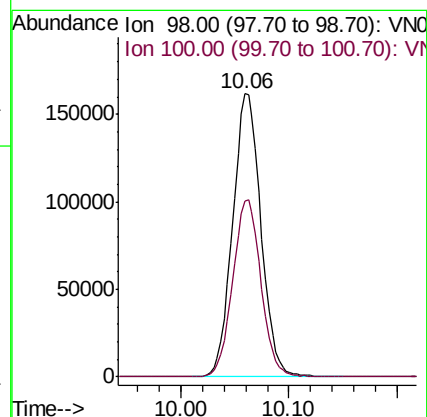
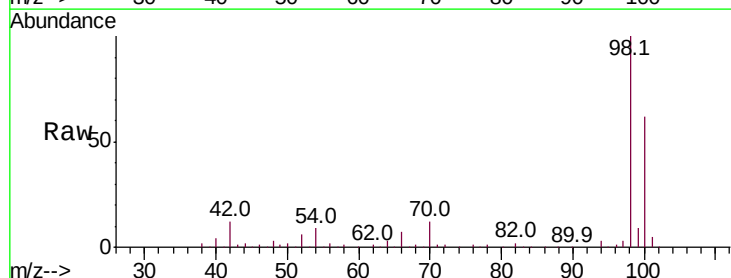
Acq: 7 Aug 2020 18:53

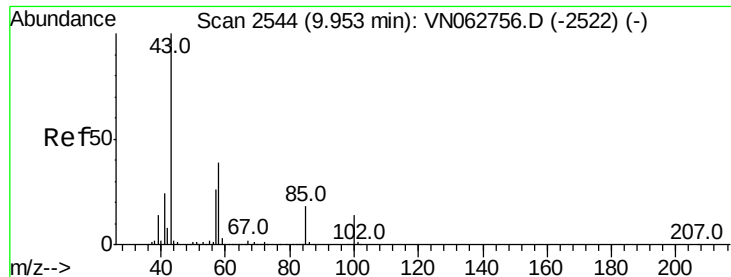
Tgt Ion: 98 Resp: 295492

Ion Ratio Lower Upper

98 100

100 62.6 50.9 76.3

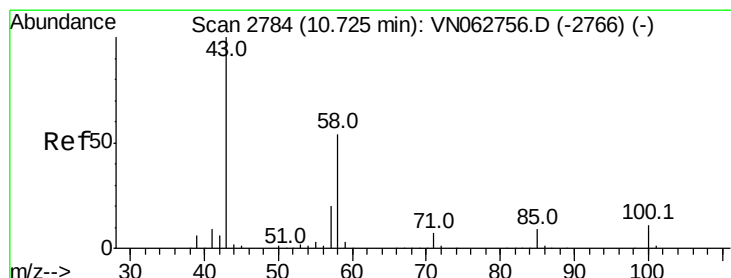
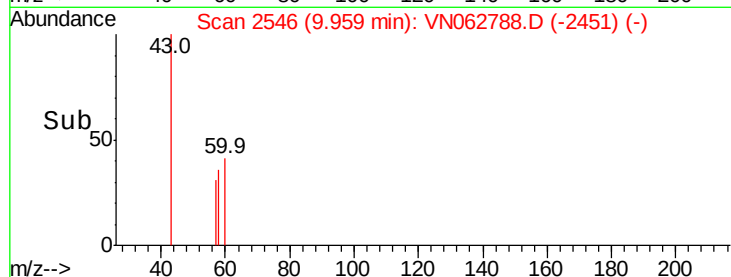
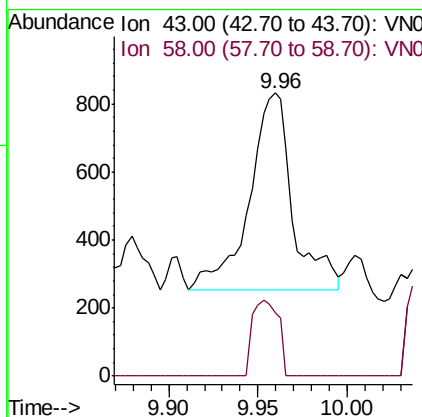
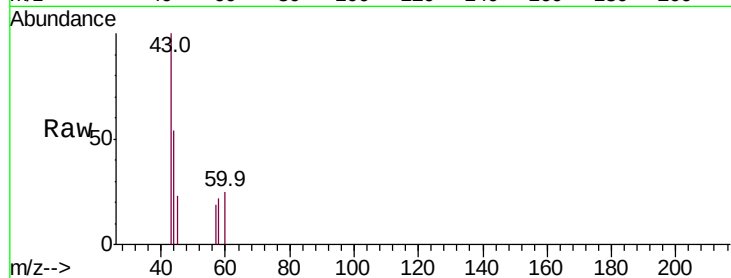




#51
 4-Methyl-2-Pentanone
 Concen: 0.392 ug/l
 RT: 9.96 min Scan# 2546
 Delta R.T. 0.01 min
 Lab File: VN062788.D
 Acq: 7 Aug 2020 18:53

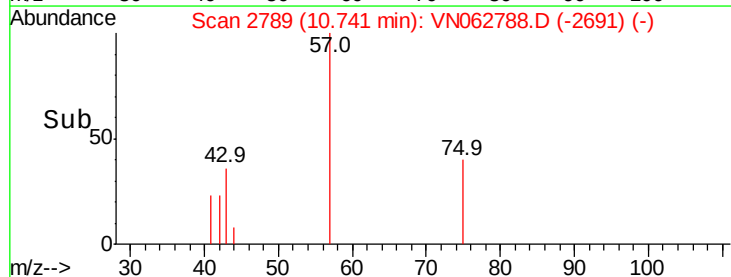
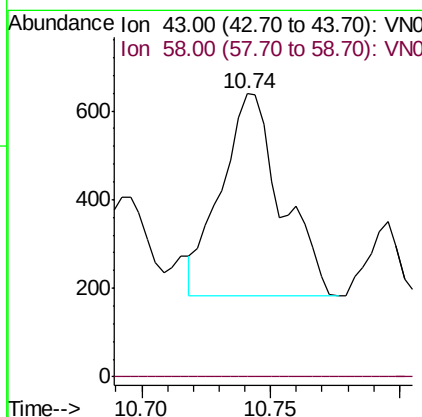
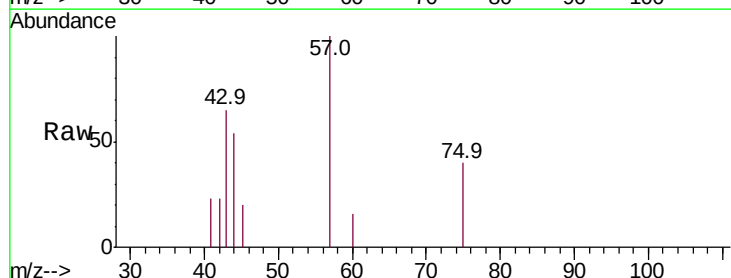
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-080620

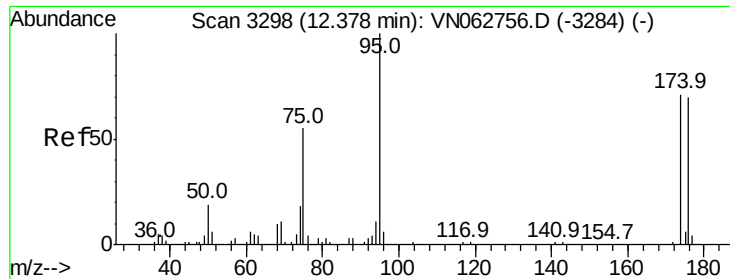
Tot Ion: 43 Resp: 998
 Ion Ratio Lower Upper
 43 100
 58 22.8 31.1 46.7#



#59
 2-Hexanone
 Concen: 0.391 ug/l
 RT: 10.74 min Scan# 2789
 Delta R.T. 0.02 min
 Lab File: VN062788.D
 Acq: 7 Aug 2020 18:53

Tgt Ion: 43 Resp: 742
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 44.965 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TR-04-080620

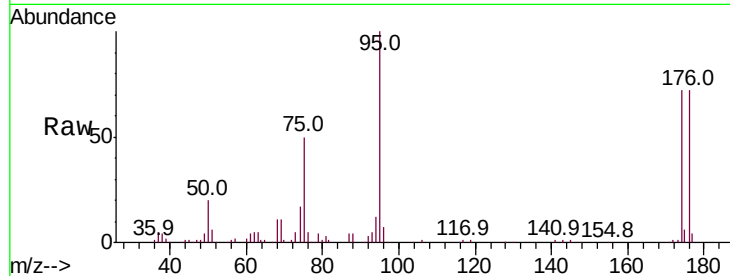
Tot Ion: 95 Resp: 105188

Ion Ratio Lower Upper

95 100

174 73.0 0.0 144.8

176 71.8 0.0 142.2



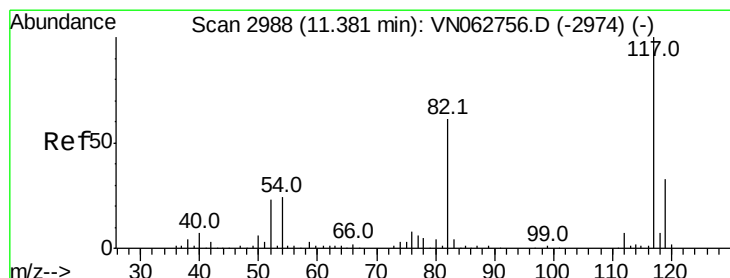
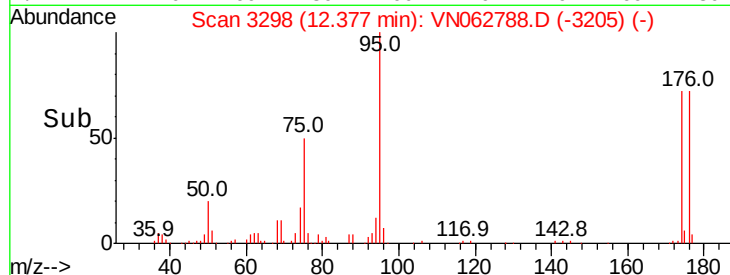
Abundance Ion 94.90 (94.60 to 95.60): VN062756.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062756.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062756.D (-3284) (-)

12.38

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

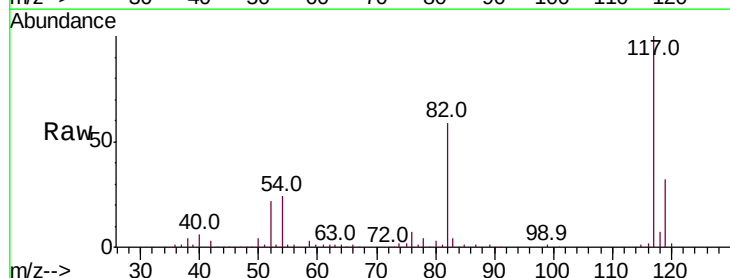
Tgt Ion: 117 Resp: 225493

Ion Ratio Lower Upper

117 100

82 59.1 49.0 73.4

119 32.4 26.2 39.2



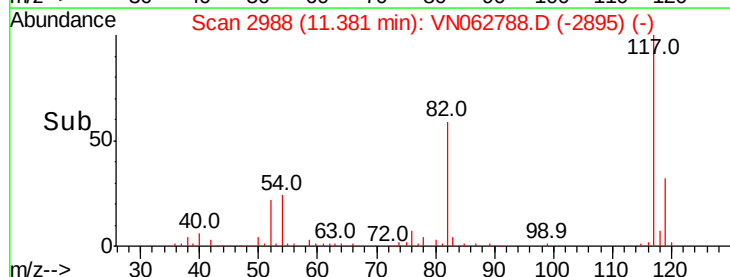
Abundance Ion 116.90 (116.60 to 117.60): VN062756.D (-2974) (-)

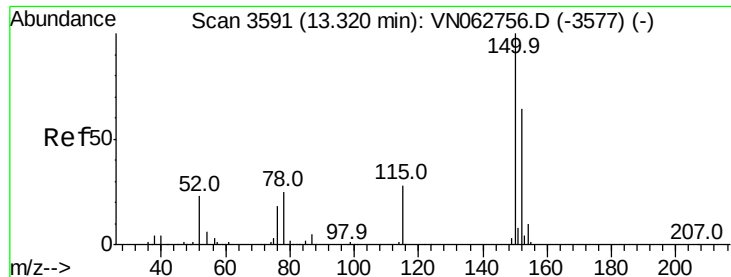
Ion 82.00 (81.70 to 82.70): VN062756.D (-2974) (-)

Ion 118.90 (118.60 to 119.60): VN062756.D (-2974) (-)

11.38

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampled :

TR-04-080620

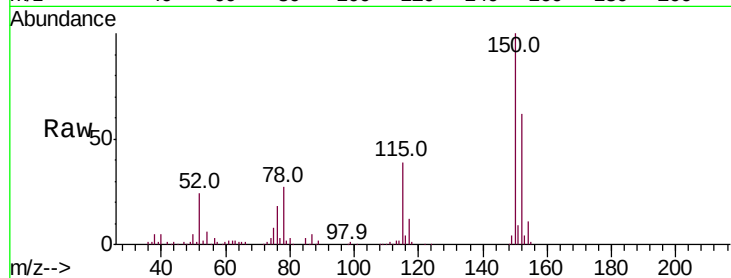
Tot Ion:152 Resp: 83687

Ion Ratio Lower Upper

152 100

115 63.1 31.6 94.8

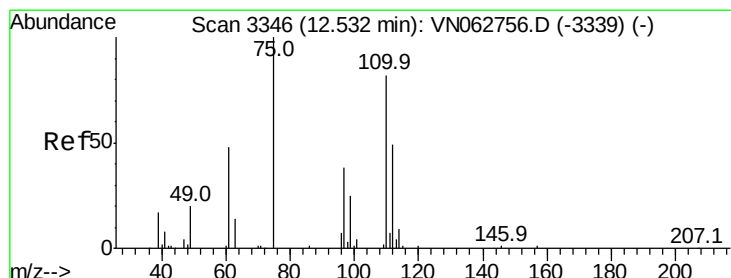
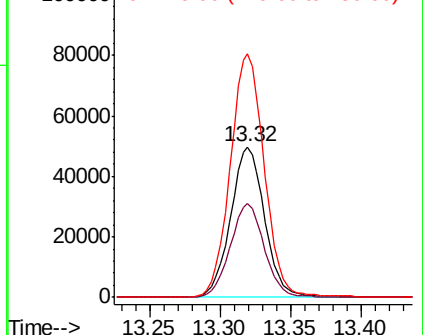
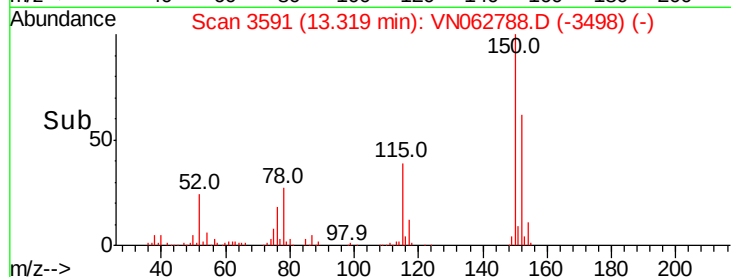
150 161.8 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 24.287 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062788.D

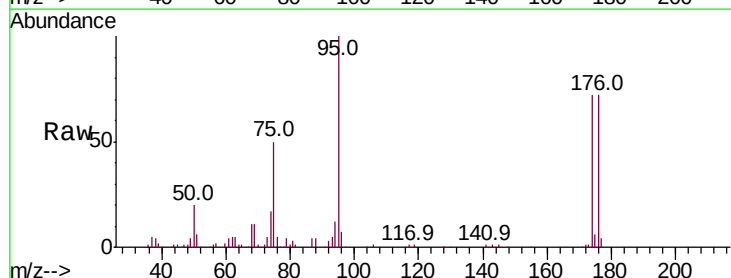
Acq: 7 Aug 2020 18:53

Tgt Ion: 75 Resp: 54814

Ion Ratio Lower Upper

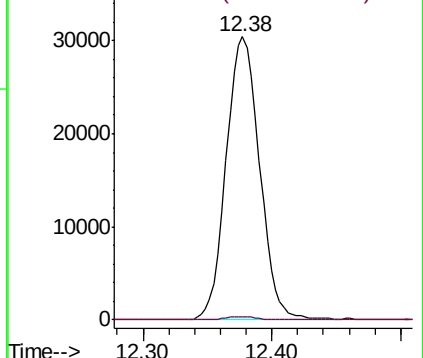
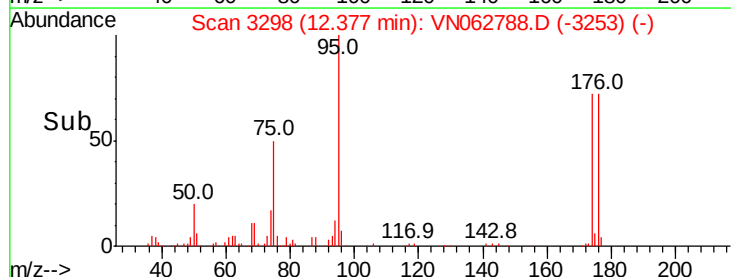
75 100

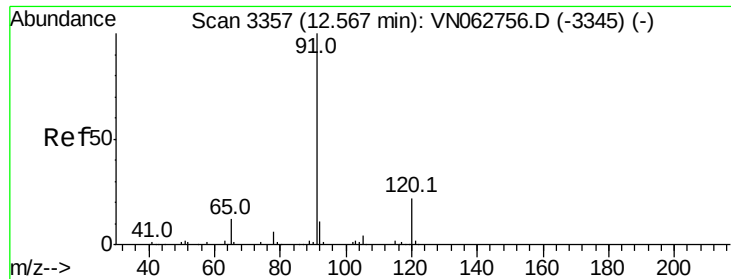
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#78

n-propylbenzene

Concen: 0.202 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. 0.08 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

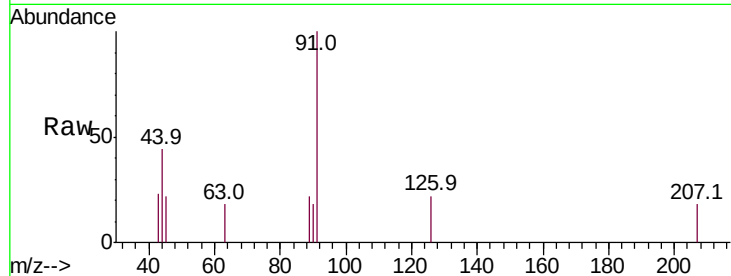
TR-04-080620

Tot Ion: 91 Resp: 1494

Ion Ratio Lower Upper

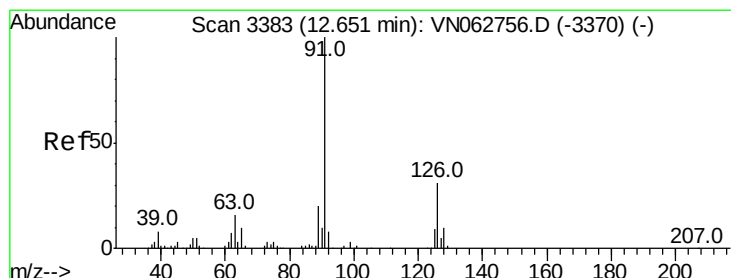
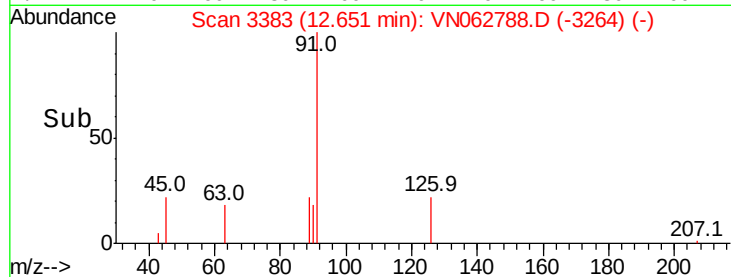
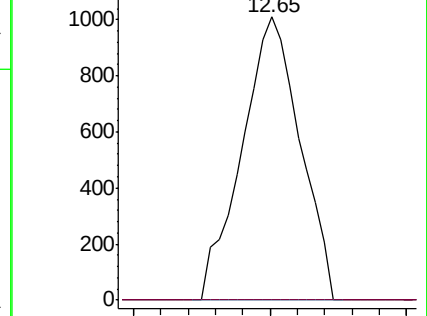
91 100

120 0.0 10.9 32.9#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.322 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. -0.00 min

Lab File: VN062788.D

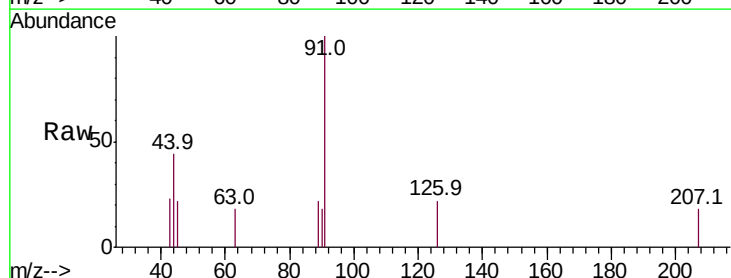
Acq: 7 Aug 2020 18:53

Tgt Ion: 91 Resp: 1494

Ion Ratio Lower Upper

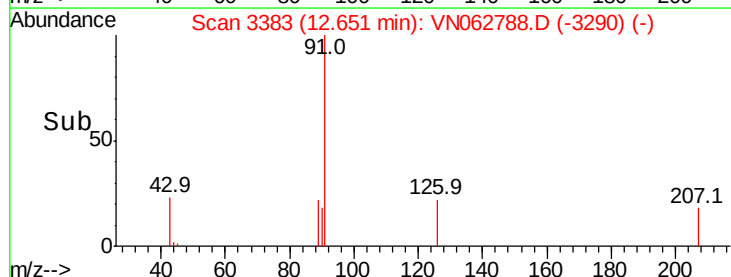
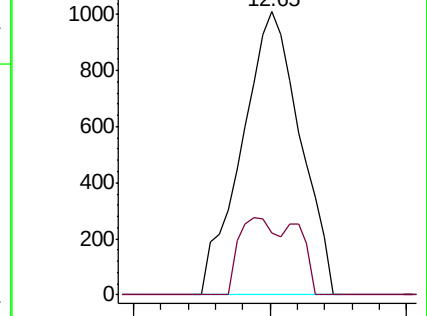
91 100

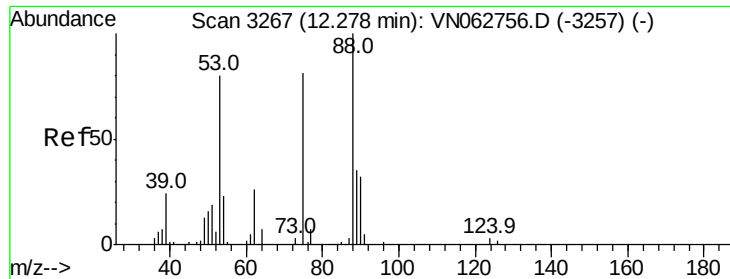
126 18.3 15.6 46.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.141 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampled :

TR-04-080620

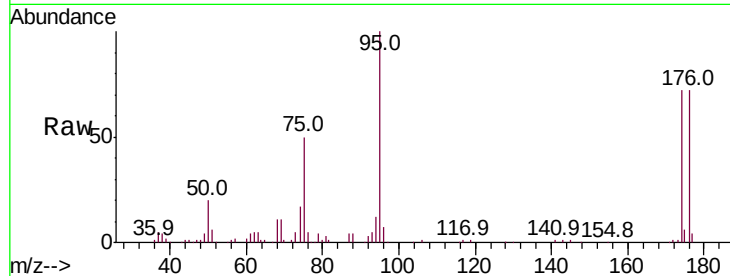
Tot Ion: 75 Resp: 54814

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

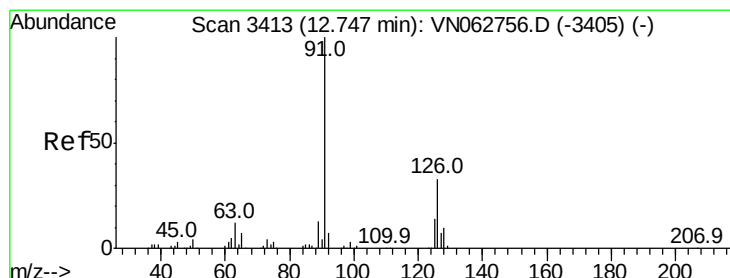
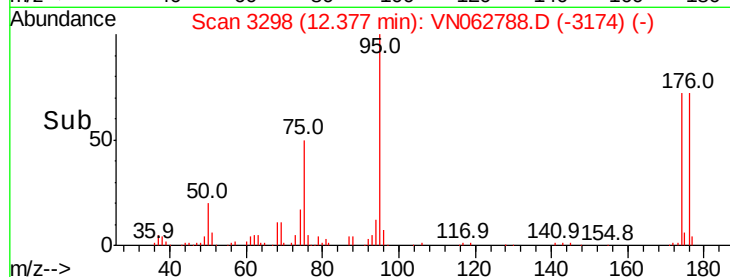
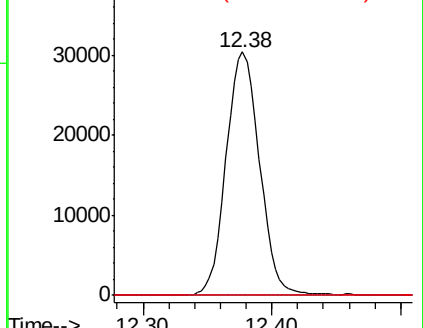
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN062756.D (-3257) (-)

Ion 53.00 (52.70 to 53.70): VN062756.D (-3257) (-)

Ion 88.90 (88.60 to 89.60): VN062756.D (-3257) (-)



#82

4-Chlorotoluene

Concen: 0.313 ug/l

RT: 12.75 min Scan# 3413

Delta R.T. -0.00 min

Lab File: VN062788.D

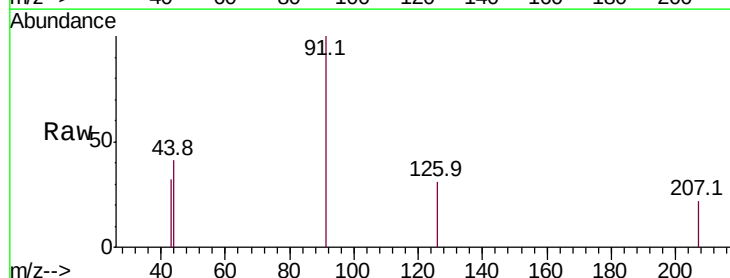
Acq: 7 Aug 2020 18:53

Tgt Ion: 91 Resp: 1494

Ion Ratio Lower Upper

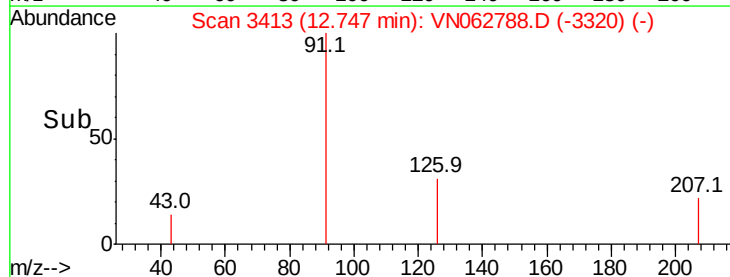
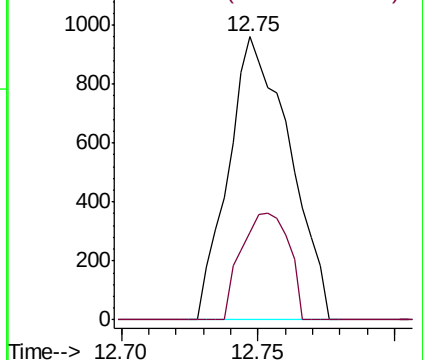
91 100

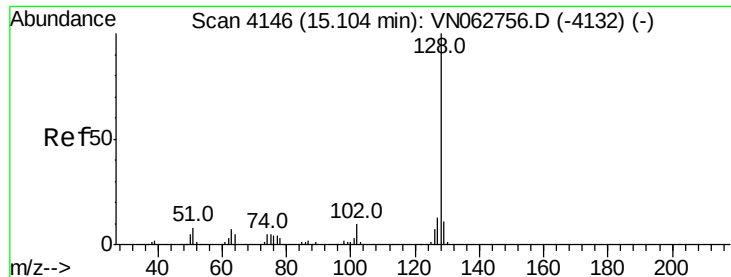
126 29.4 15.3 45.9



Abundance Ion 91.00 (90.70 to 91.70): VN062756.D (-3405) (-)

Ion 125.90 (125.60 to 126.60): VN062756.D (-3405) (-)





#95

Naphthalene

Concen: 4.447 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062788.D

Acq: 7 Aug 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TR-04-080620

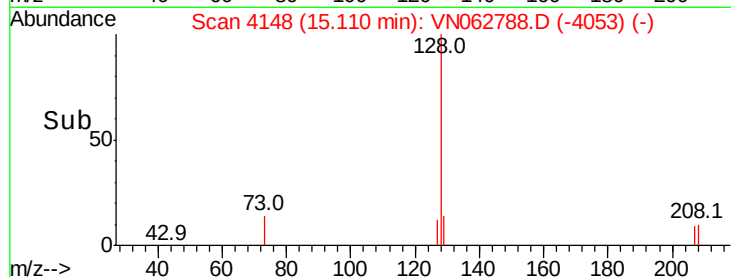
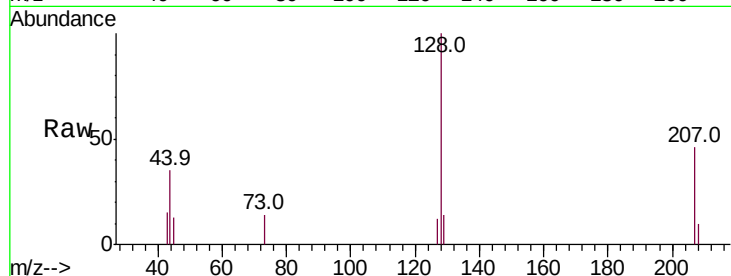
Tot Ion:128 Resp: 3072

Ion Ratio Lower Upper

128 100

127 4.7 10.8 16.2#

129 9.8 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

