

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080720\
 Data File : VN062782.D
 Acq On : 7 Aug 2020 16:28
 Operator : JC/MD
 Sample : PB130807TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130807TB

Quant Time: Aug 08 02:13:35 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

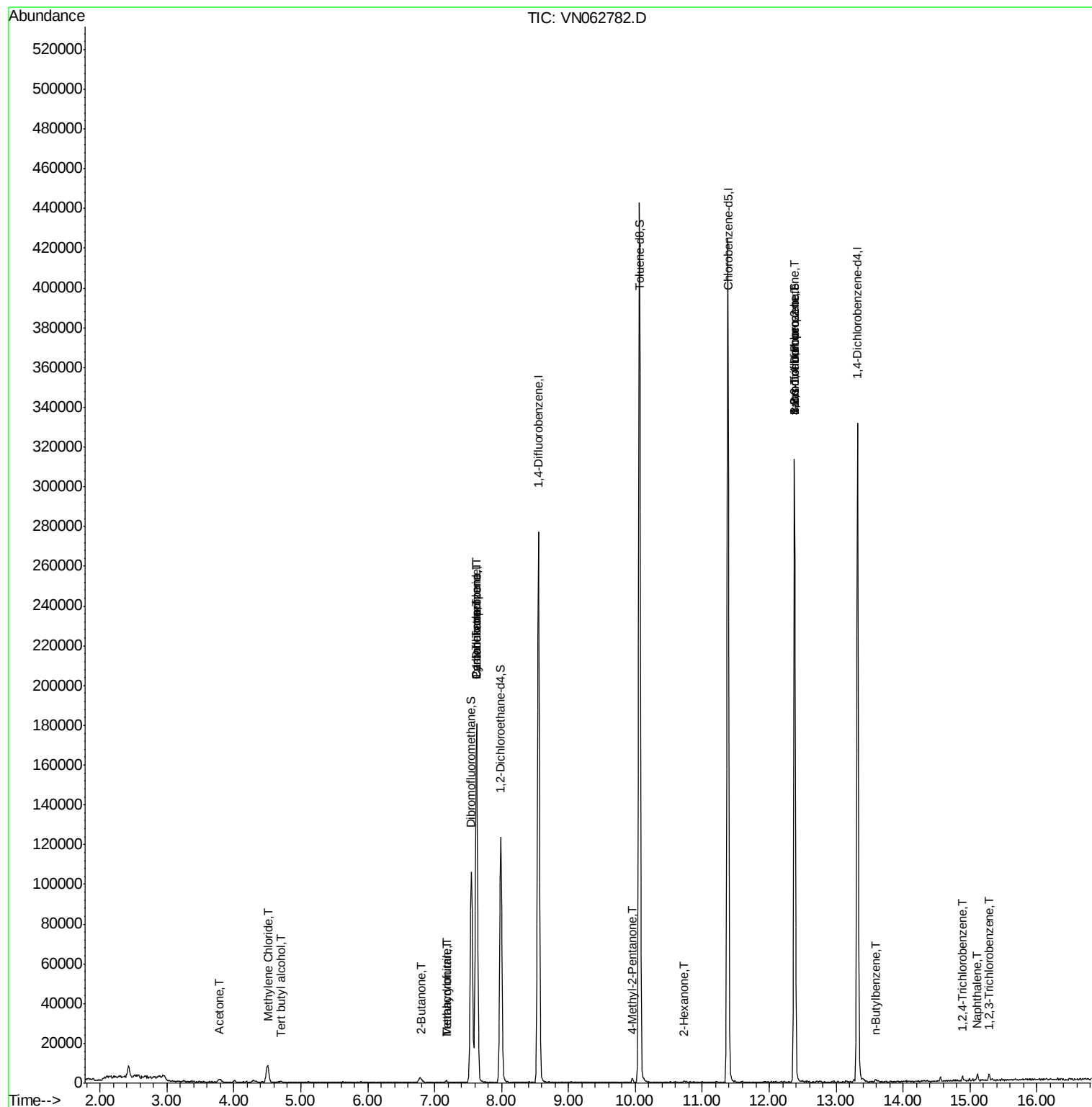
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	138779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	239378	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	239861	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	86972	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	112881	49.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.38%	
35) Dibromofluoromethane	7.55	113	81760	49.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.86%	
50) Toluene-d8	10.06	98	310248	48.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	12.38	95	110652	45.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.60%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.71	59	146	0.388	ug/l #	72
16) Acetone	3.79	43	3461	4.174	ug/l	91
17) Carbon Disulfide	4.01	76	1020	Below Cal	#	74
18) Methyl Acetate	4.28	43	1915	Below Cal	#	63
20) Methylene Chloride	4.50	84	6707	3.716	ug/l	96
25) 2-Butanone	6.81	43	789	0.672	ug/l #	49
29) Tetrahydrofuran	7.17	42	761	0.997	ug/l #	50
31) Cyclohexane	7.63	56	3368	1.210	ug/l #	17
36) 1,1-Dichloropropene	7.63	75	11550	4.955	ug/l #	51
38) Carbon Tetrachloride	7.63	117	15199	5.514	ug/l #	15
41) Methacrylonitrile	7.17	41	233	0.212	ug/l #	52
51) 4-Methyl-2-Pentanone	9.96	43	1819	0.692	ug/l	88
59) 2-Hexanone	10.72	43	754	0.385	ug/l	92
71) Bromoform	12.38	173	686	0.416	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	59462	25.351	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	59462	77.390	ug/l #	10
89) n-Butylbenzene	13.60	91	1235	0.261	ug/l #	75
93) 1,2,4-Trichlorobenzene	14.89	180	867	3.875	ug/l #	86
94) Hexachlorobutadiene	14.99	225	30	Below Cal	#	19
95) Naphthalene	15.11	128	3974	4.628	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.28	180	1221	3.541	ug/l	89

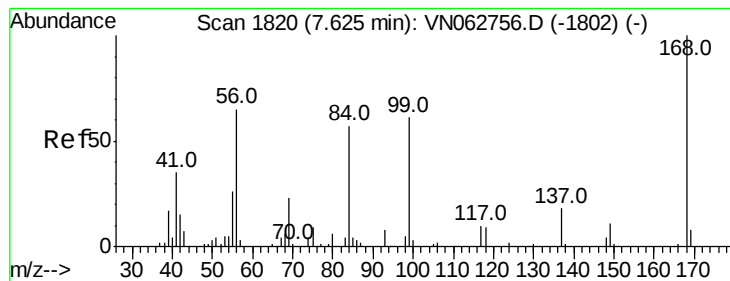
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062782.D

Acq: 7 Aug 2020 16:28

Instrument :

MSVOA_N

ClientSampleId :

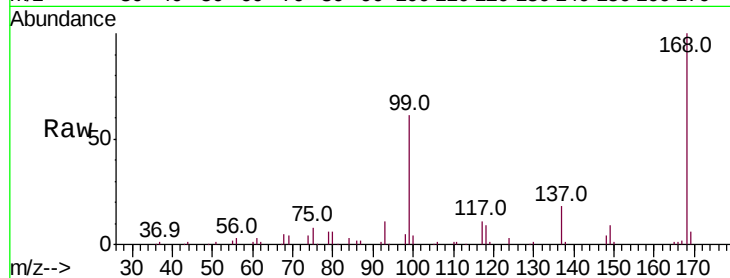
PB130807TB

Tot Ion:168 Resp: 138779

Ion Ratio Lower Upper

168 100

99 61.5 52.9 79.3



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

Ion 98.90 (98.60 to 99.60): VN062756.D (-1802) (-)

7.63

60000

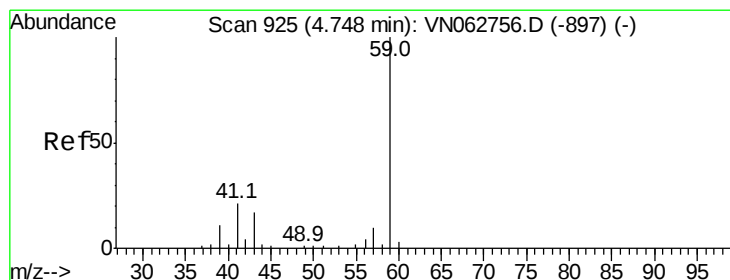
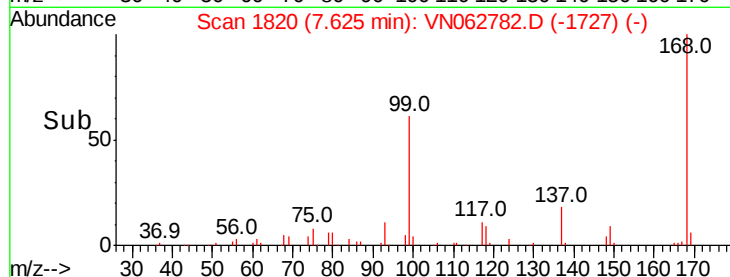
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.388 ug/l

RT: 4.71 min Scan# 912

Delta R.T. -0.04 min

Lab File: VN062782.D

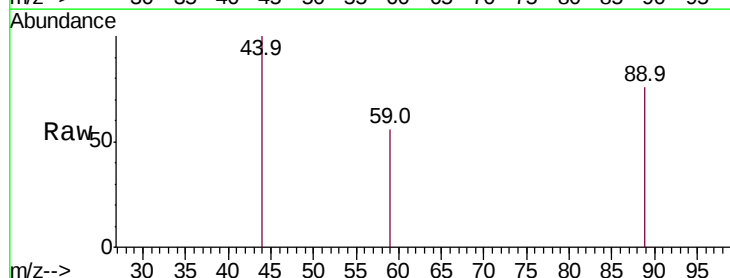
Acq: 7 Aug 2020 16:28

Tgt Ion: 59 Resp: 146

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN062756.D (-897) (-)

Ion 57.00 (56.70 to 57.70): VN062756.D (-897) (-)

4.71

250

200

150

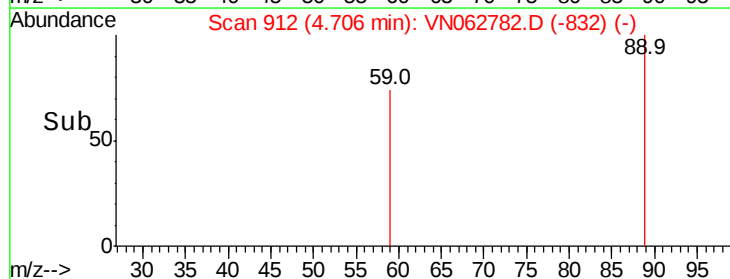
100

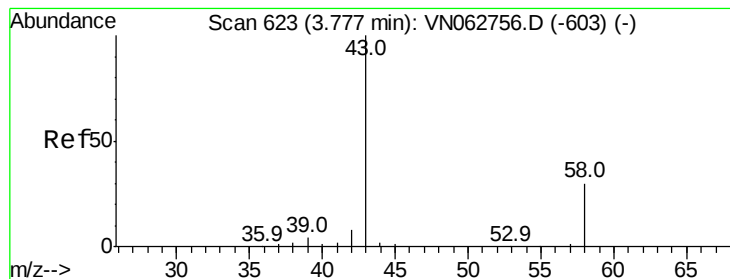
50

0

Time-->

4.69 4.70 4.71 4.72





#16

Acetone

Concen: 4.174 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

Instrument :

MSVOA_N

ClientSampled :

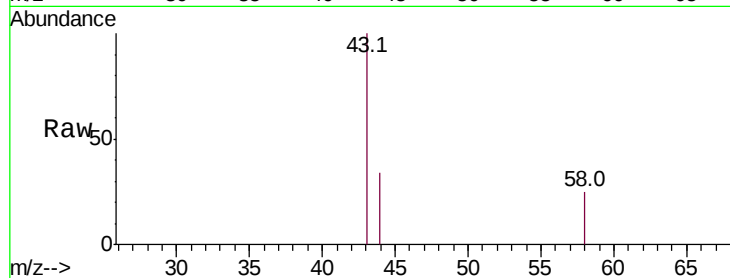
PB130807TB

Tot Ion: 43 Resp: 3461

Ion Ratio Lower Upper

43 100

58 25.0 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN062756.D (-603) (-)

3.79

1500

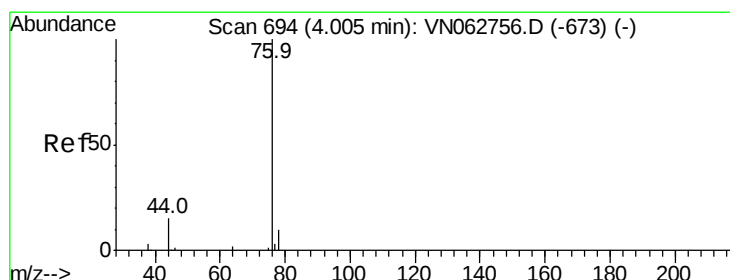
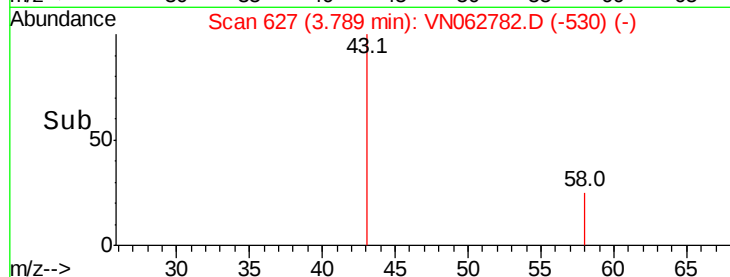
1000

500

0

Time-->

3.70 3.75 3.80 3.85



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN062782.D

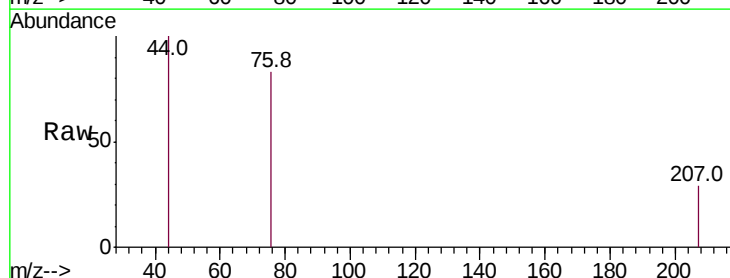
Acq: 7 Aug 2020 16:28

Tgt Ion: 76 Resp: 1020

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN062756.D (-673) (-)

Ion 77.90 (77.60 to 78.60): VN062756.D (-673) (-)

4.01

500

400

300

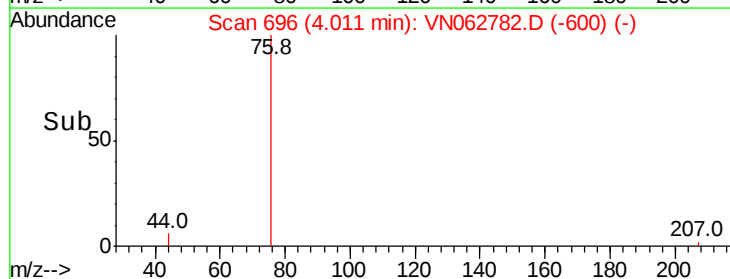
200

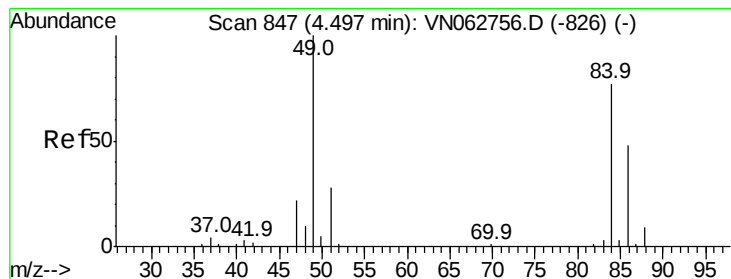
100

0

Time-->

4.00 4.05





#20

Methvlene Chloride

Concen: 3.716 ug/l

RT: 4.50 min Scan# 848

Delta R.T. 0.00 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB130807TB

Tot Ion: 84 Resp: 6707

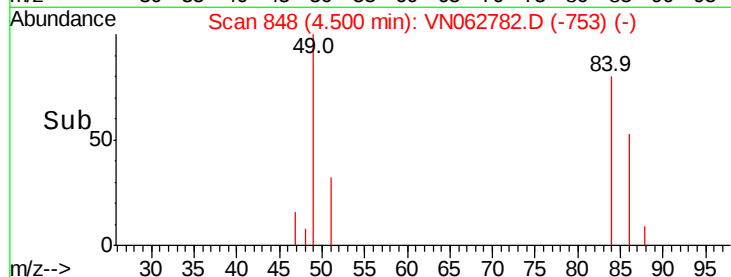
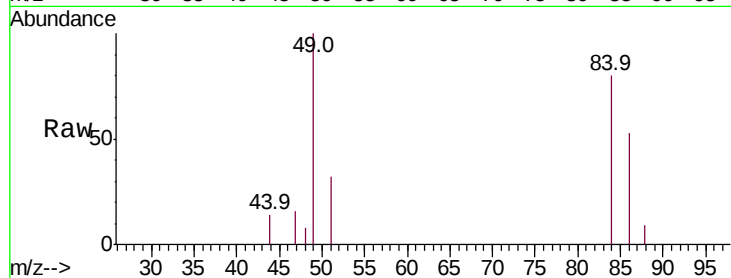
Ion	Ratio	Lower	Upper
84	100		
49	124.6	103.4	155.2
51	39.9	29.3	43.9
86	66.0	49.9	74.9

84 100

49 124.6 103.4 155.2

51 39.9 29.3 43.9

86 66.0 49.9 74.9



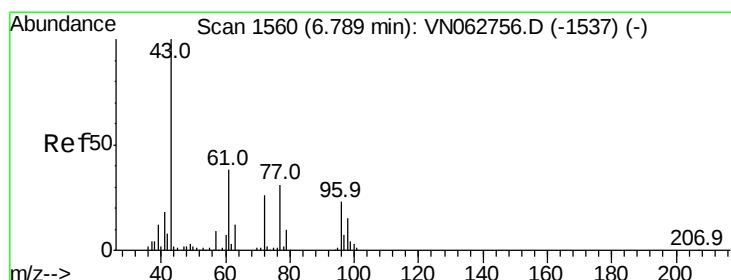
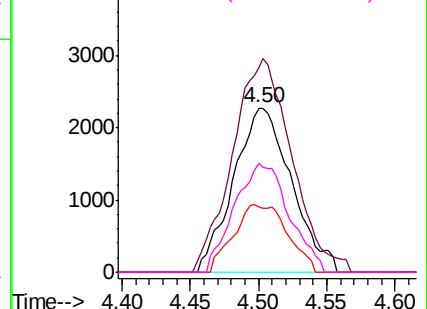
Abundance

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: 0.672 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.02 min

Lab File: VN062782.D

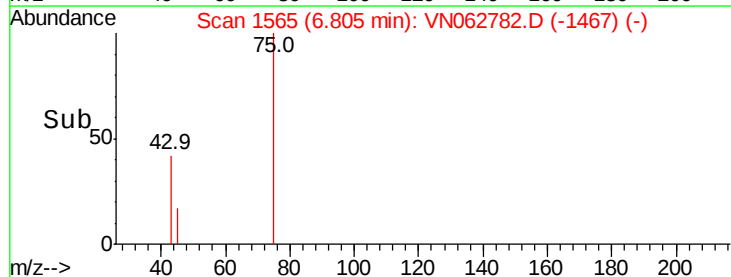
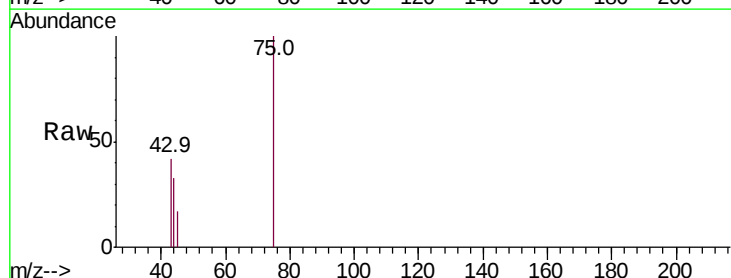
Acq: 7 Aug 2020 16:28

Tgt Ion: 43 Resp: 789

Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.1	31.7#

43 100

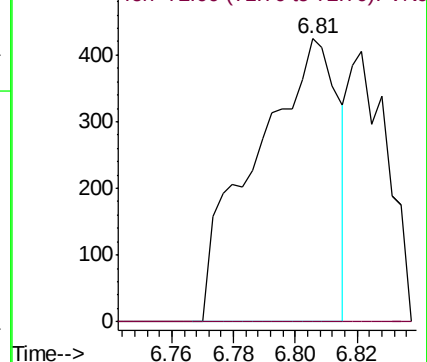
72 0.0 21.1 31.7#

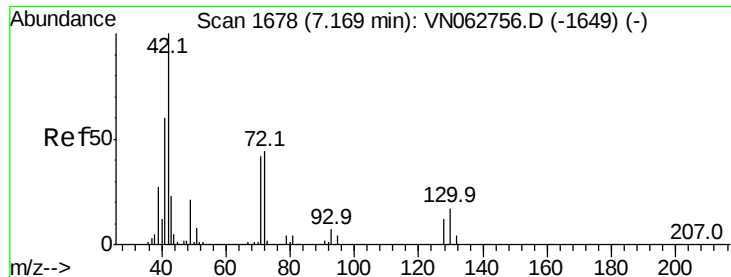


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.997 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

Instrument :

MSVOA_N

ClientSampled :

PB130807TB

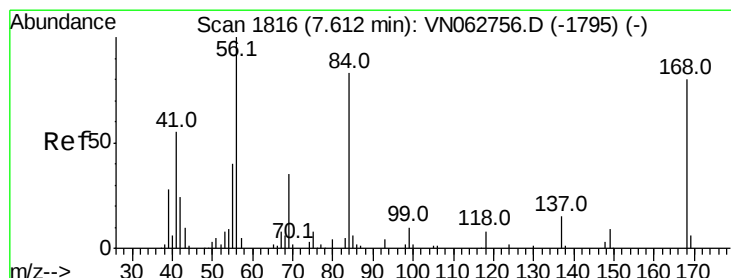
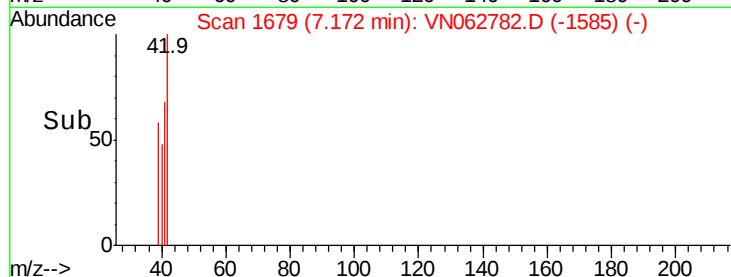
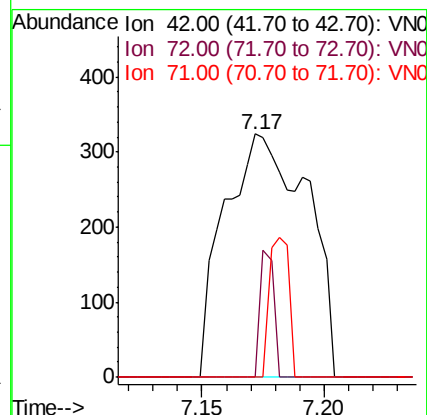
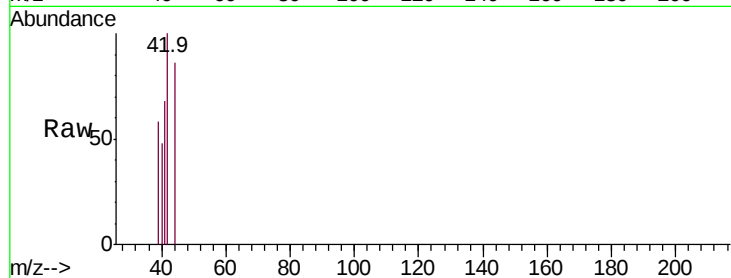
Tot Ion: 42 Resp: 761

Ion Ratio Lower Upper

42 100

72 8.3 35.0 52.4#

71 13.5 33.2 49.8#



#31

Cyclohexane

Concen: 1.210 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

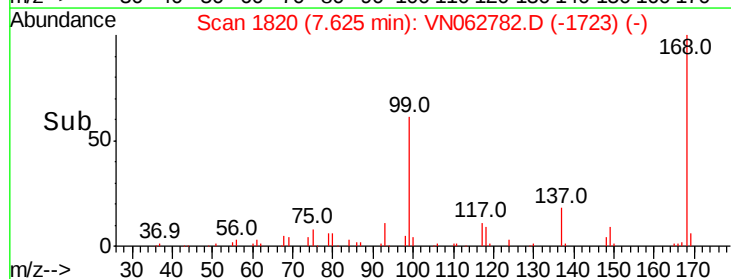
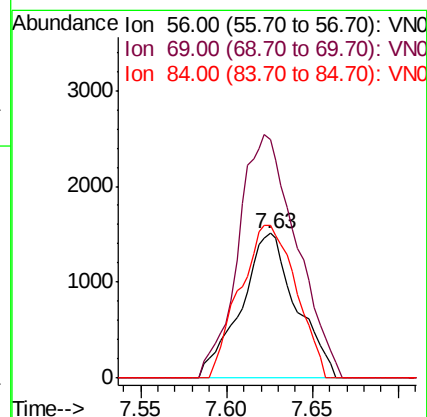
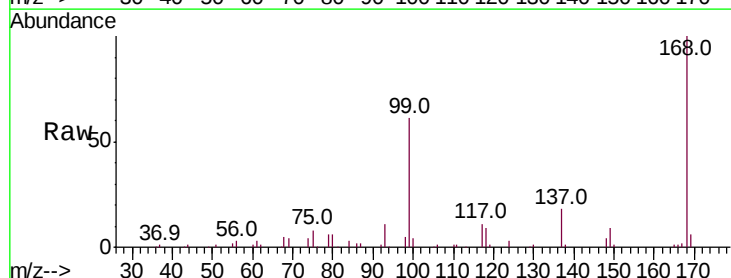
Tgt Ion: 56 Resp: 3368

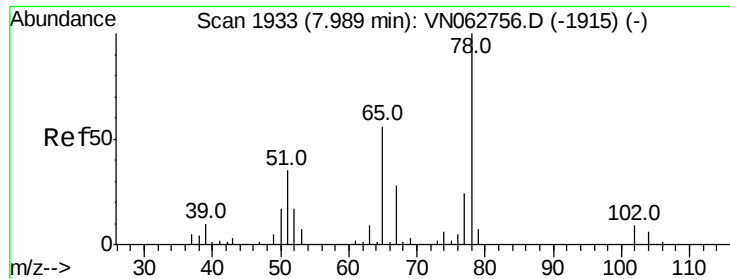
Ion Ratio Lower Upper

56 100

69 165.4 28.1 42.1#

84 105.2 66.8 100.2#

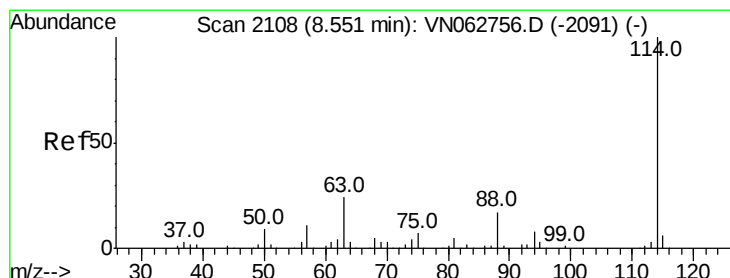
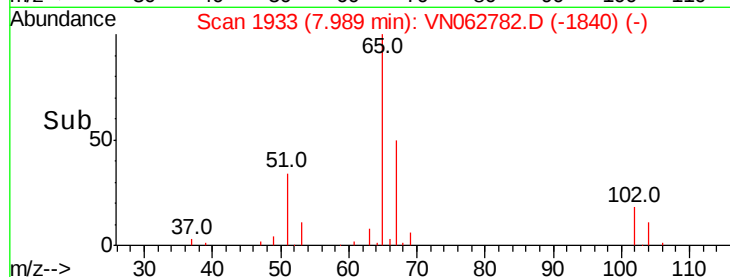
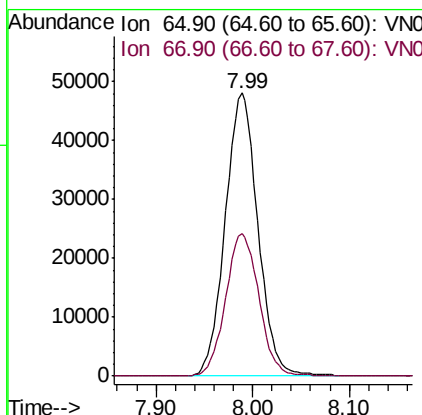
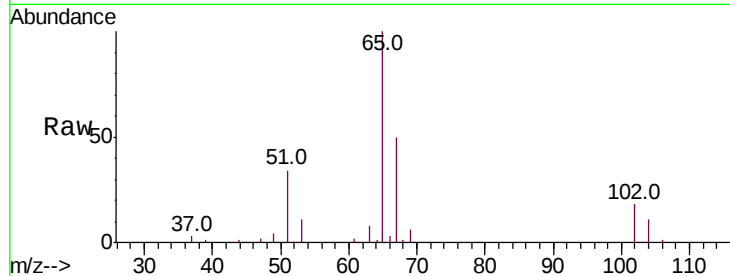




#33
 1,2-Dichloroethane-d4
 Concen: 49.186 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062782.D
 Acq: 7 Aug 2020 16:28

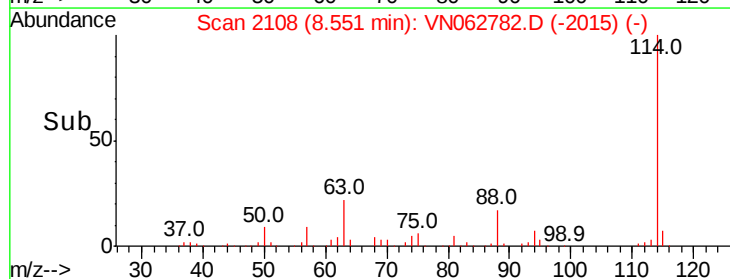
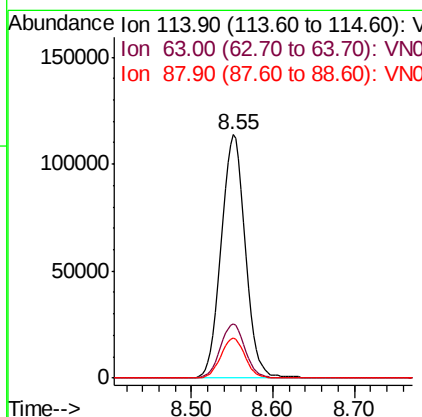
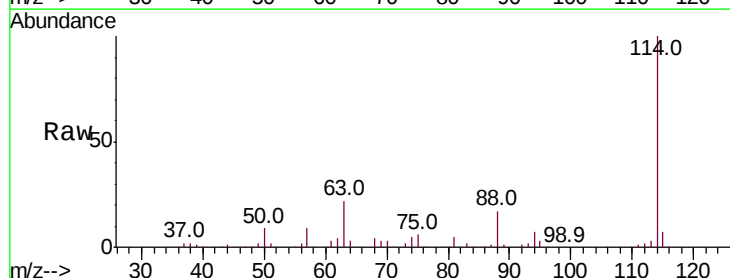
Instrument :
 MSVOA_N
 ClientSampled :
 PB130807TB

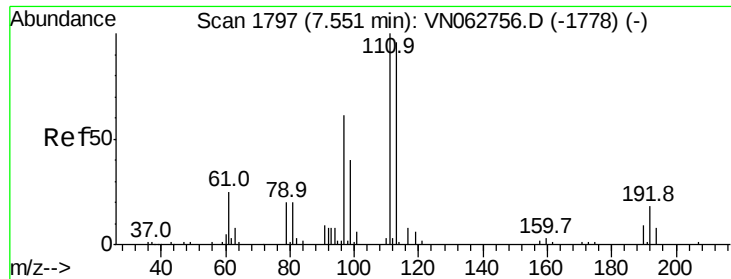
Tot Ion: 65 Resp: 112881
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062782.D
 Acq: 7 Aug 2020 16:28

Tgt Ion: 114 Resp: 239378
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 47.6
 88 16.6 0.0 34.4

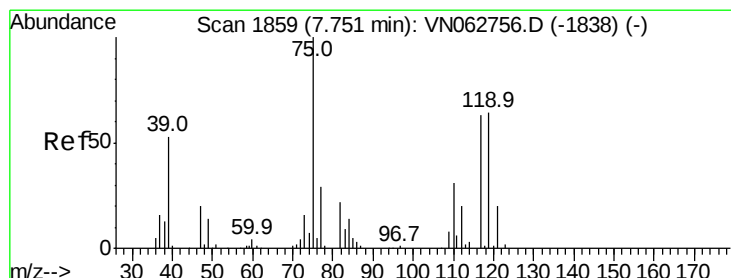
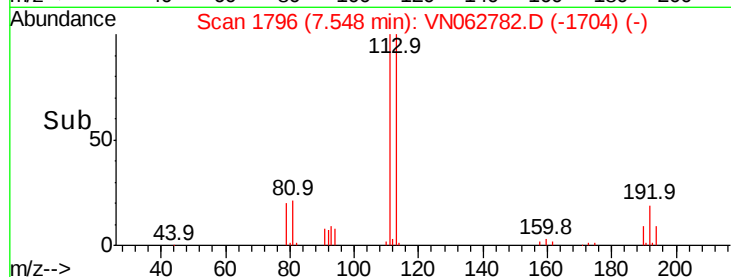
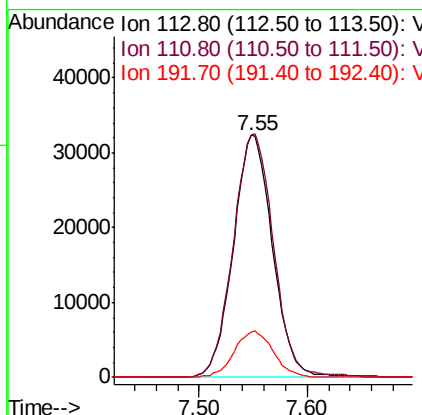
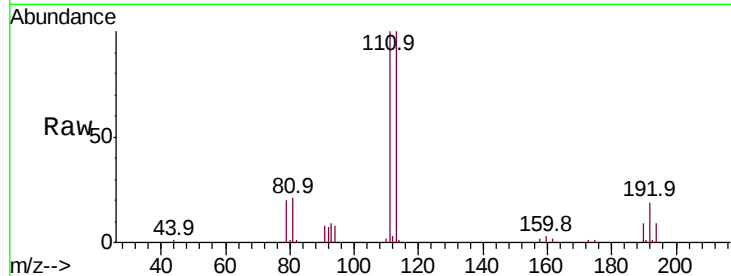




#35
 Dibromofluoromethane
 Concen: 49.930 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062782.D
 Acq: 7 Aug 2020 16:28

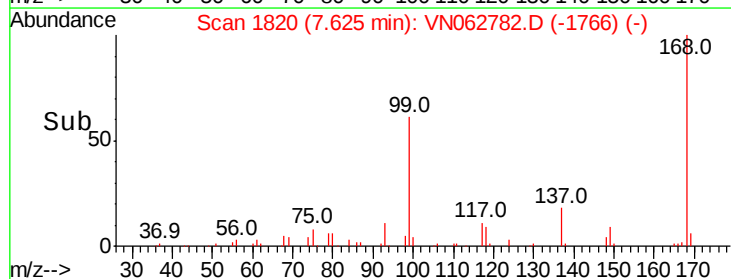
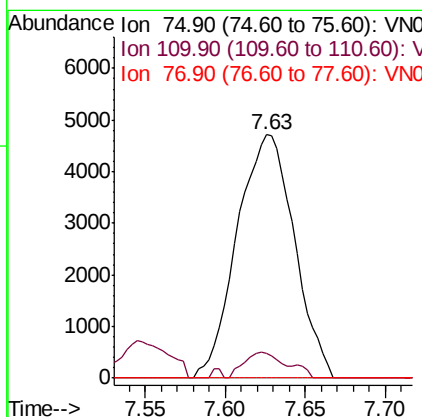
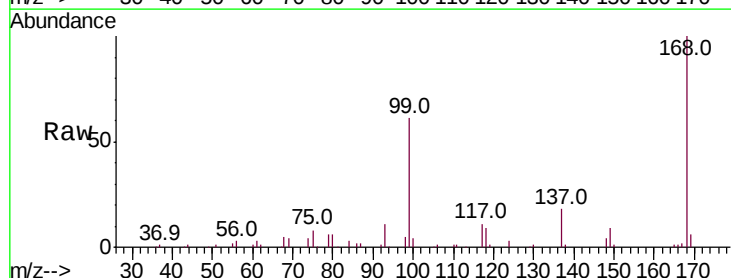
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130807TB

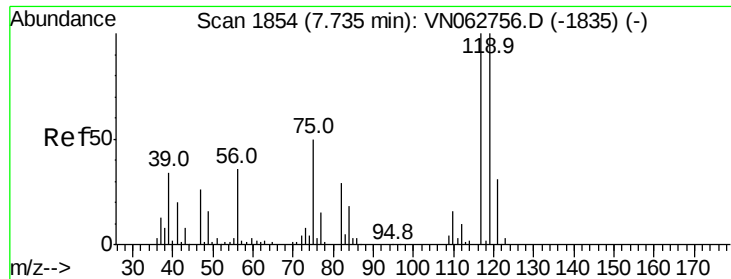
Tot Ion:113 Resp: 81760
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.8 122.6
 192 19.0 15.0 22.4



#36
 1,1-Dichloropropene
 Concen: 4.955 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062782.D
 Acq: 7 Aug 2020 16:28

Tgt Ion: 75 Resp: 11550
 Ion Ratio Lower Upper
 75 100
 110 7.9 15.6 46.7#
 77 0.0 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 5.514 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB130807TB

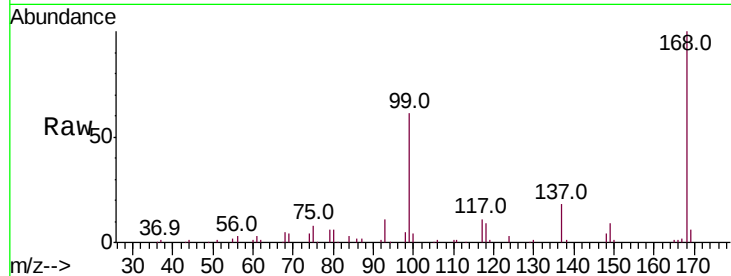
Tot Ion:117 Resp: 15199

Ion Ratio Lower Upper

117 100

119 6.1 79.4 119.2#

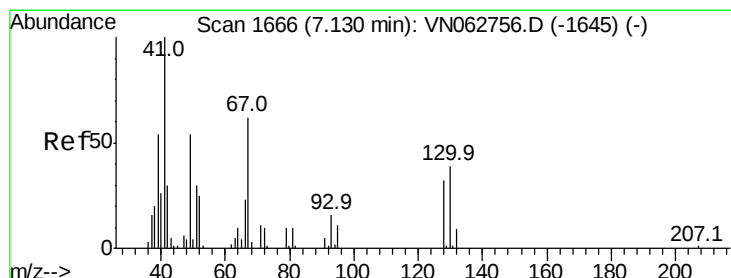
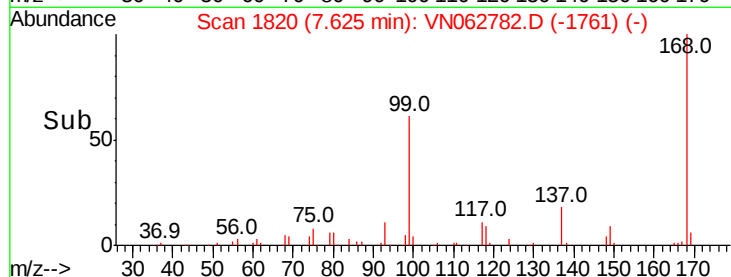
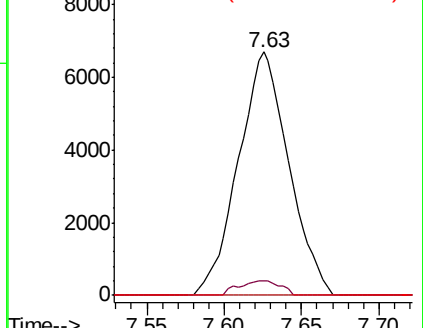
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 0.212 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.04 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

Tgt Ion: 41 Resp: 233

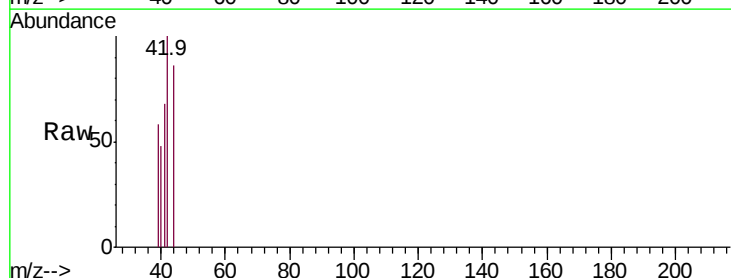
Ion Ratio Lower Upper

41 100

39 42.9 69.4 104.2#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

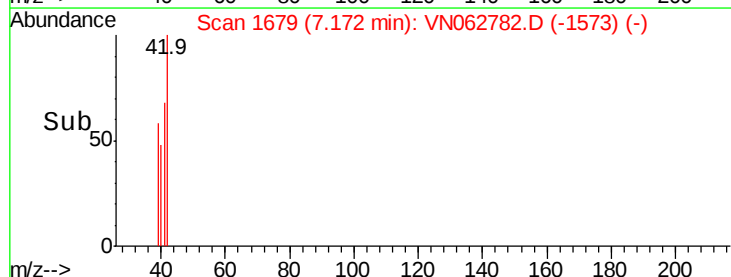
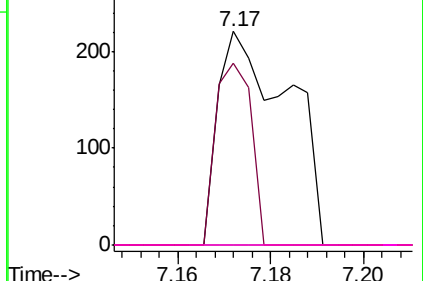


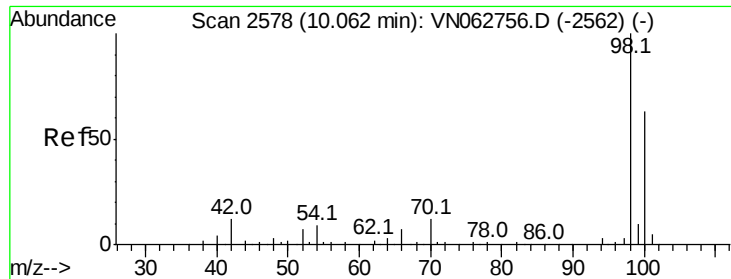
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#50

Toluene-d8

Concen: 48.530 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

Instrument :

MSVOA_N

ClientSampleId :

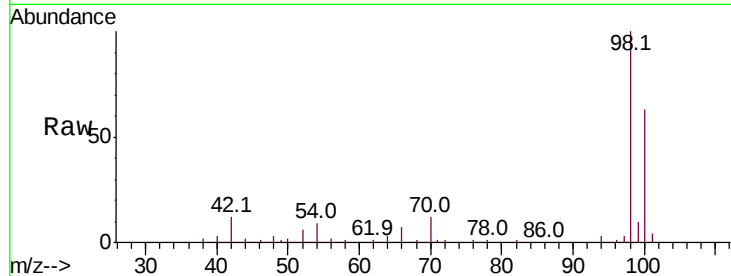
PB130807TB

Tot Ion: 98 Resp: 310248

Ion Ratio Lower Upper

98 100

100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN062756.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062756.D (-2562) (-)

10.06

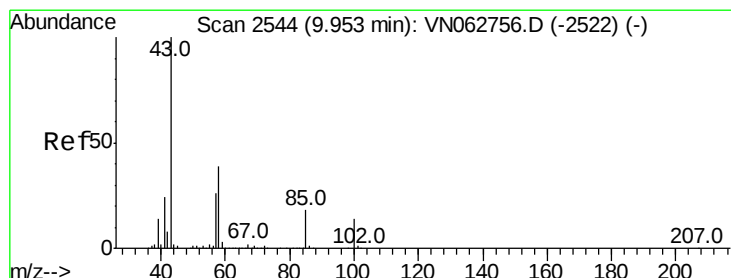
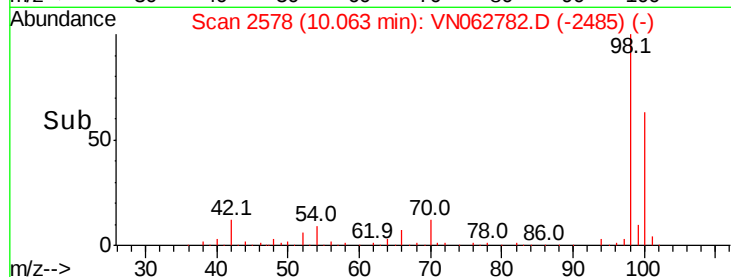
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.692 ug/l

RT: 9.96 min Scan# 2546

Delta R.T. 0.01 min

Lab File: VN062782.D

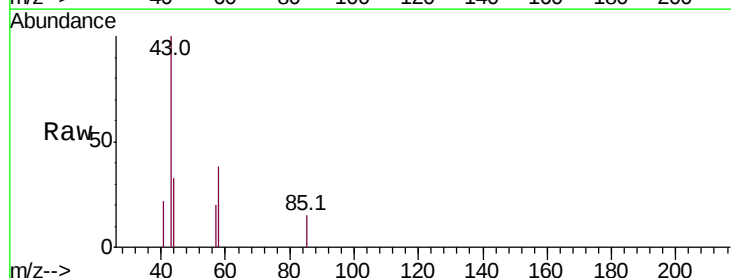
Acq: 7 Aug 2020 16:28

Tgt Ion: 43 Resp: 1819

Ion Ratio Lower Upper

43 100

58 31.6 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) (-)

9.96

1000

800

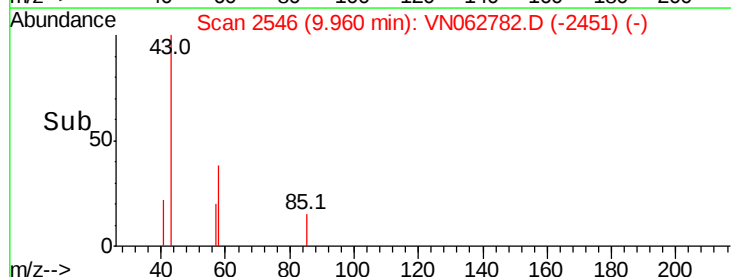
600

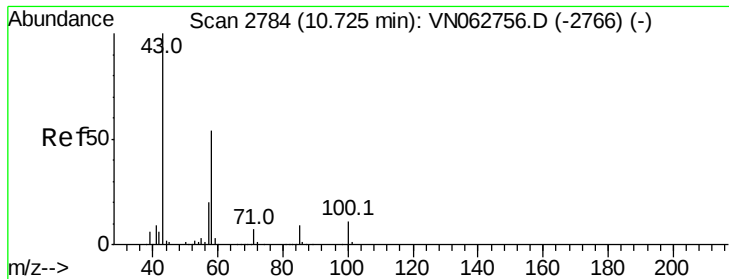
400

200

0

Time-->

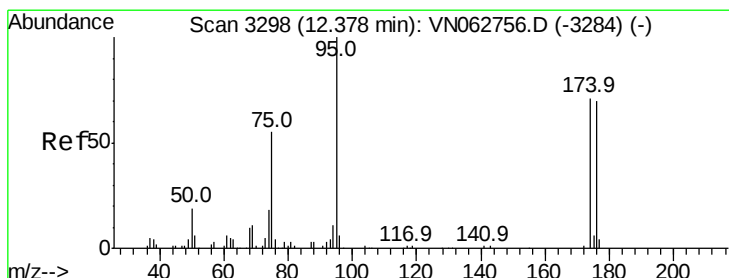
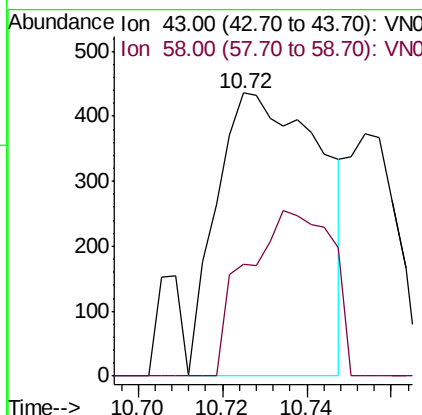
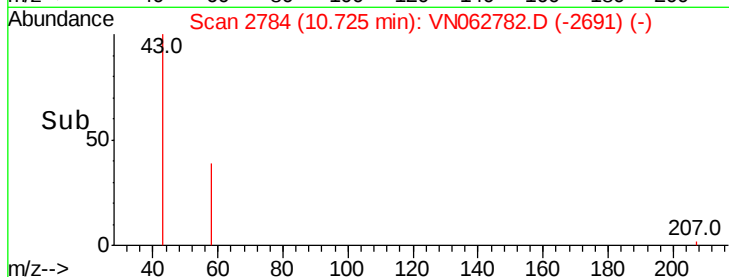
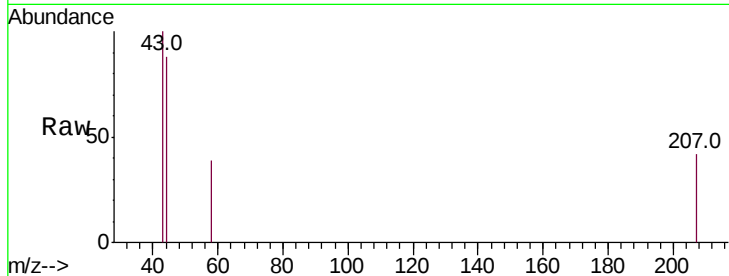




#59
2-Hexanone
Concen: 0.385 ug/l
RT: 10.72 min Scan# 2784
Delta R.T. 0.00 min
Lab File: VN062782.D
Acq: 7 Aug 2020 16:28

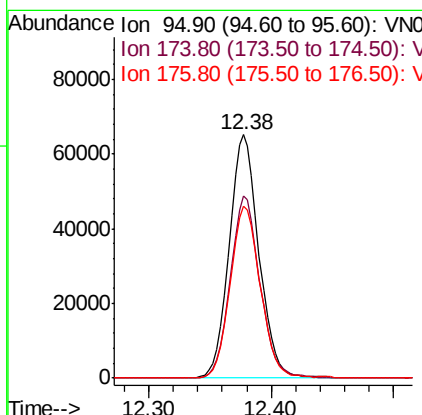
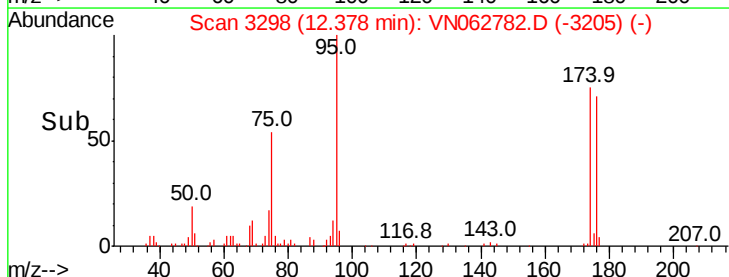
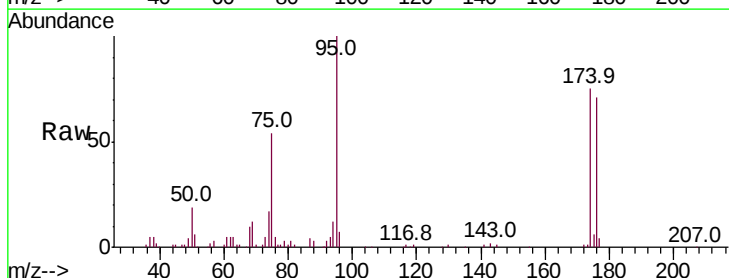
Instrument :
MSVOA_N
ClientSampleId :
PB130807TB

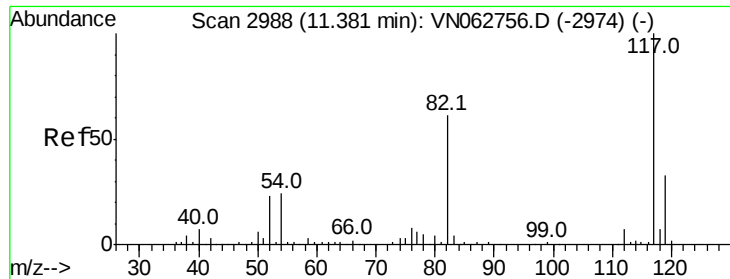
Tot Ion: 43 Resp: 754
Ion Ratio Lower Upper
43 100
58 47.9 26.7 80.1



#62
4-Bromofluorobenzene
Concen: 45.802 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062782.D
Acq: 7 Aug 2020 16:28

Tgt Ion: 95 Resp: 110652
Ion Ratio Lower Upper
95 100
174 74.7 0.0 144.8
176 71.6 0.0 142.2

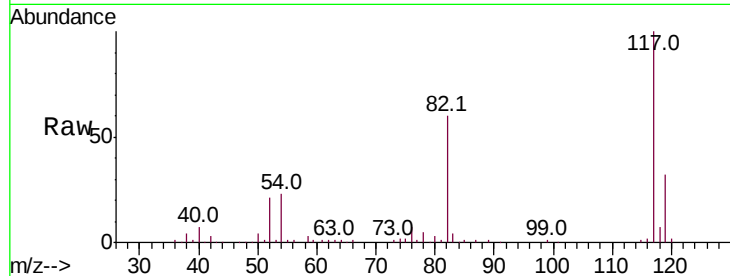




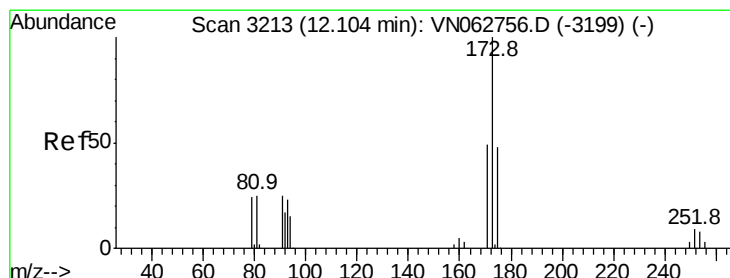
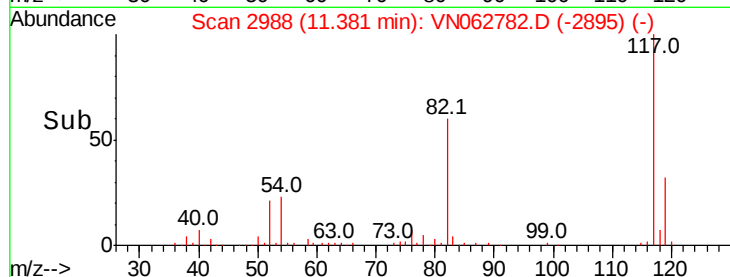
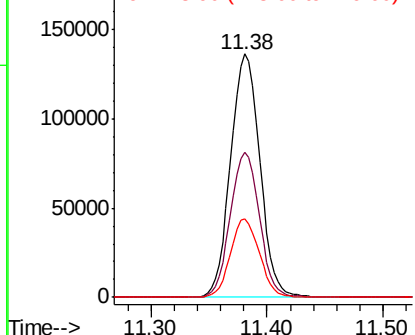
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062782.D
Acq: 7 Aug 2020 16:28

Instrument :
MSVOA_N
ClientSampled :
PB130807TB

Tot Ion:117 Resp: 239861
Ion Ratio Lower Upper
117 100
82 59.6 49.0 73.4
119 32.3 26.2 39.2

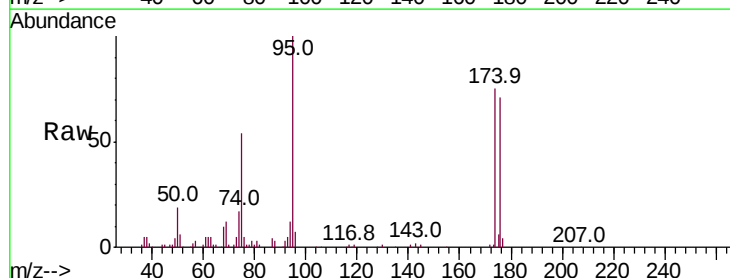


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

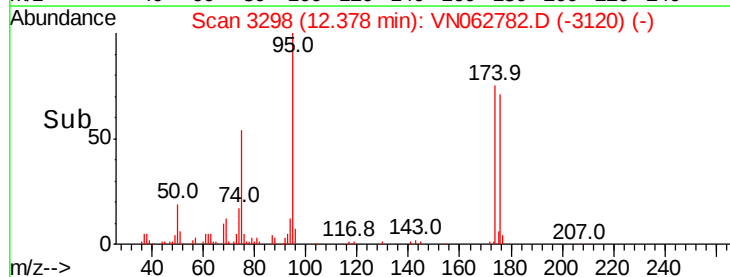
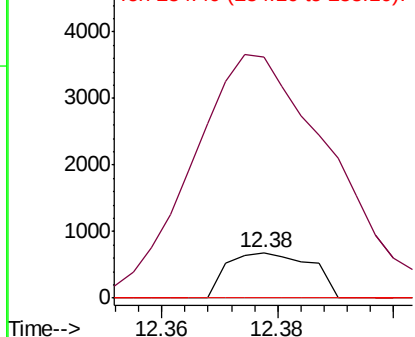


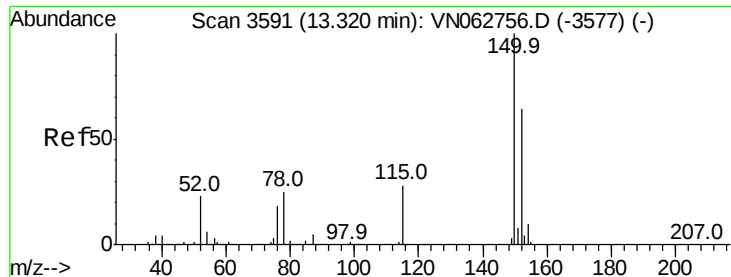
#71
Bromoform
Concen: 0.416 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.27 min
Lab File: VN062782.D
Acq: 7 Aug 2020 16:28

Tgt Ion:173 Resp: 686
Ion Ratio Lower Upper
173 100
175 792.1 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: VN062782.D

Acq: 7 Aug 2020 16:28

Instrument :

MSVOA_N

ClientSampled :

PB130807TB

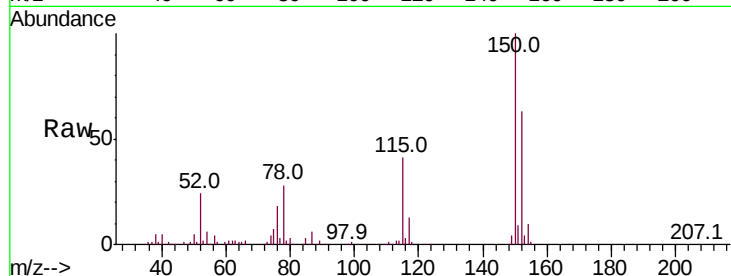
Tot Ion:152 Resp: 86972

Ion Ratio Lower Upper

152 100

115 62.6 31.6 94.8

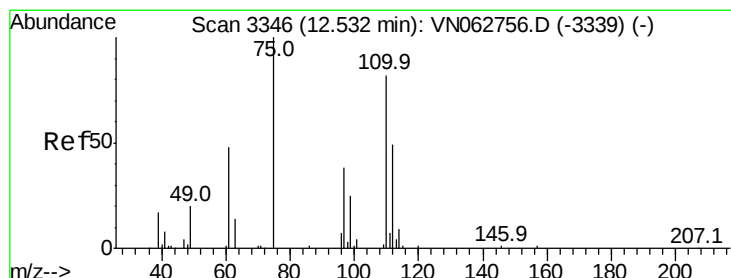
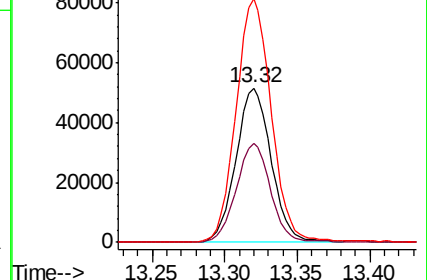
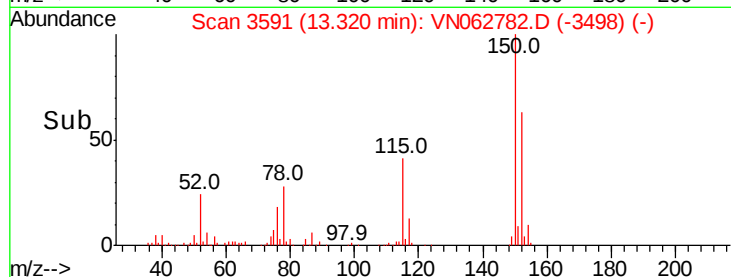
150 158.3 0.0 349.2



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: 25.351 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062782.D

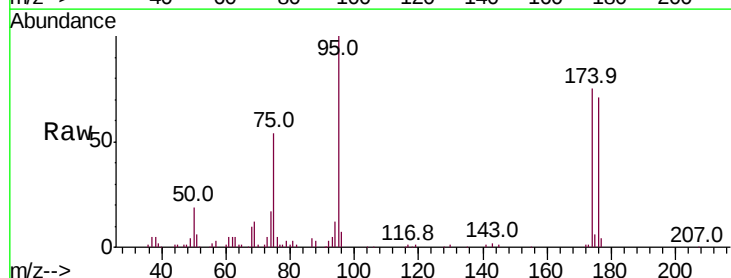
Acq: 7 Aug 2020 16:28

Tgt Ion: 75 Resp: 59462

Ion Ratio Lower Upper

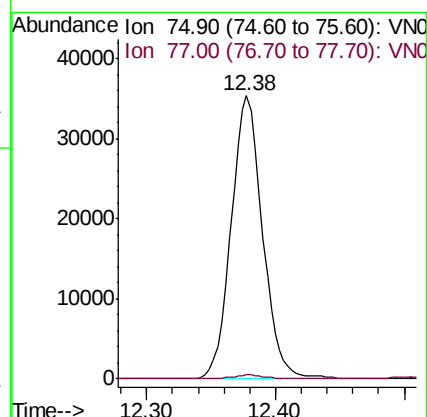
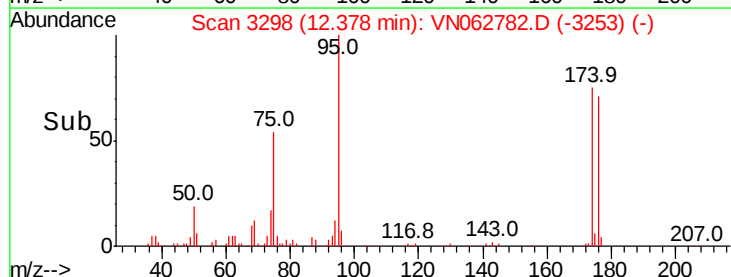
75 100

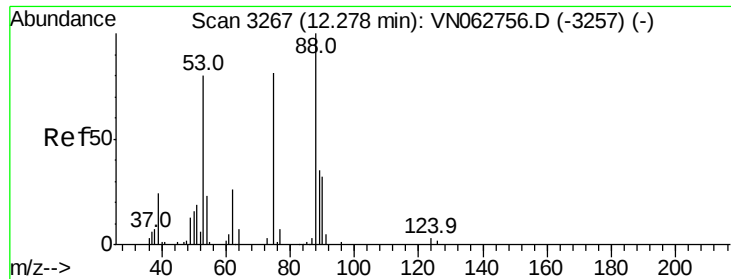
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

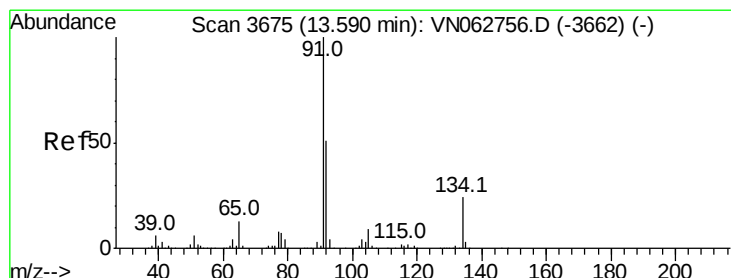
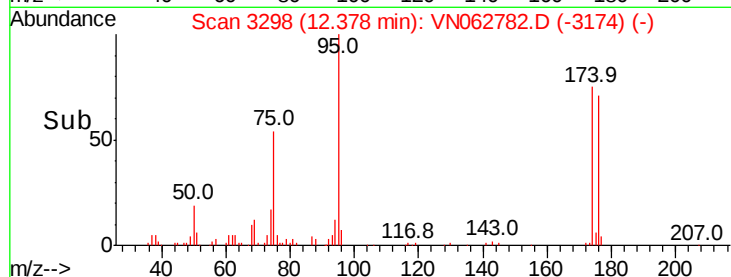
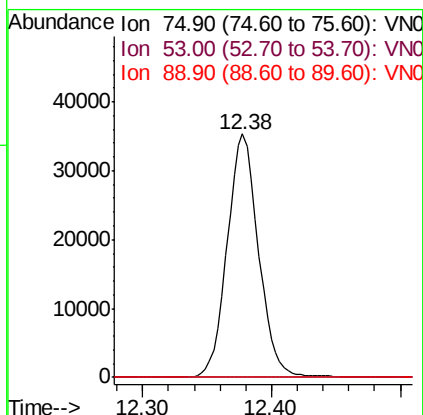
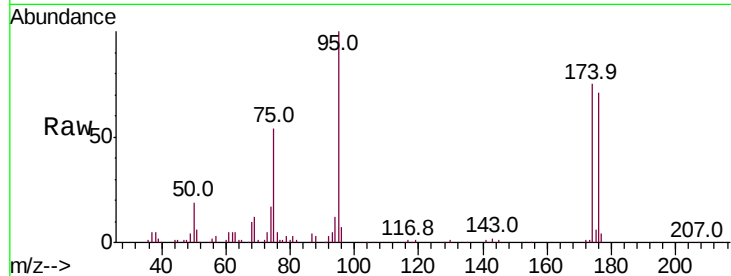




#81
trans-1,4-Dichloro-2-butene
Concen: 77.390 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062782.D
Acq: 7 Aug 2020 16:28

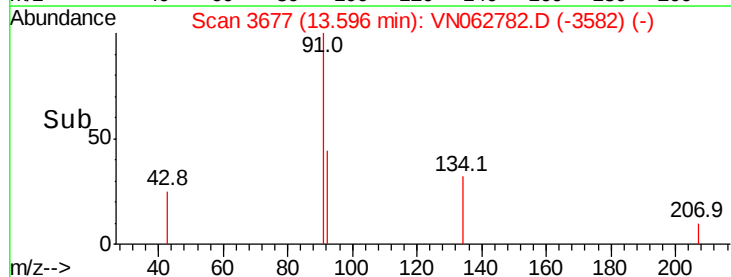
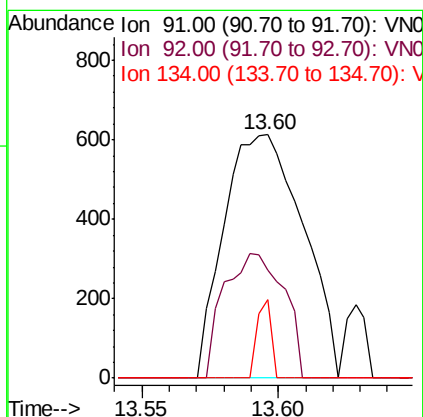
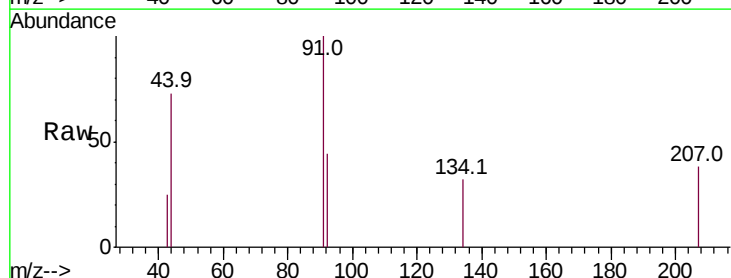
Instrument :
MSVOA_N
ClientSampleId :
PB130807TB

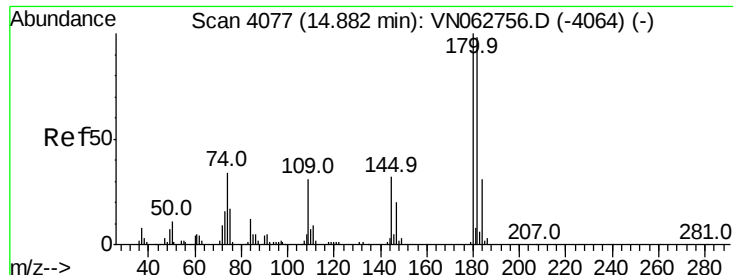
Tot Ion: 75 Resp: 59462
Ion Ratio Lower Upper
75 100
53 0.0 79.1 118.7#
89 0.0 36.2 54.2#



#89
n-Butylbenzene
Concen: 0.261 ug/l
RT: 13.60 min Scan# 3677
Delta R.T. 0.01 min
Lab File: VN062782.D
Acq: 7 Aug 2020 16:28

Tgt Ion: 91 Resp: 1235
Ion Ratio Lower Upper
91 100
92 38.5 25.7 77.0
134 5.7 12.2 36.6#

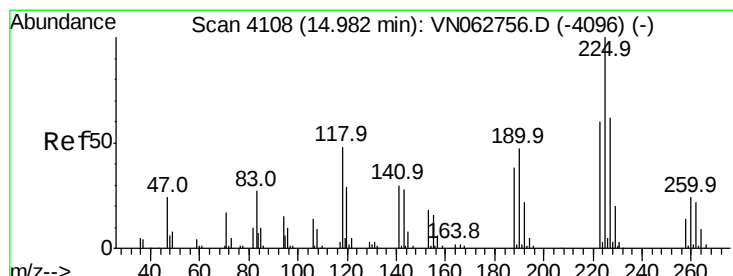
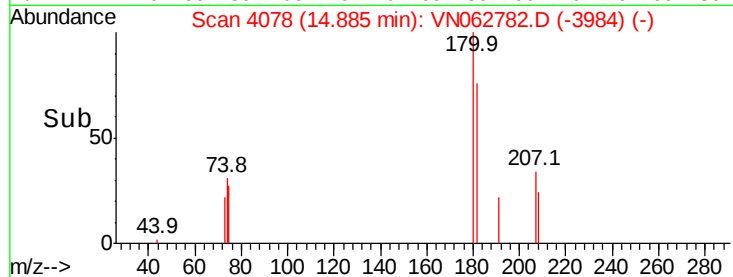
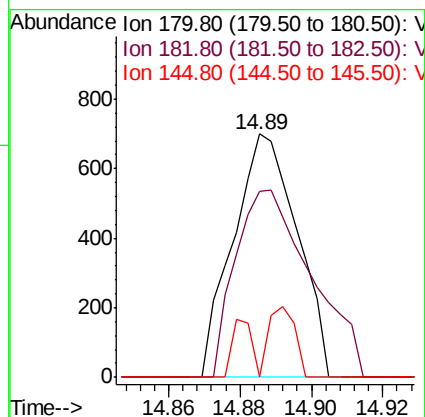
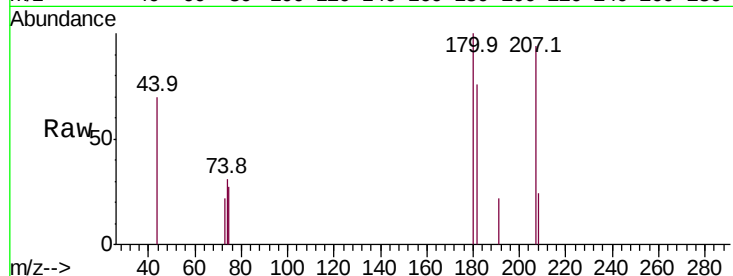




#93
 1,2,4-Trichlorobenzene
 Concen: 3.875 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN062782.D
 Acq: 7 Aug 2020 16:28

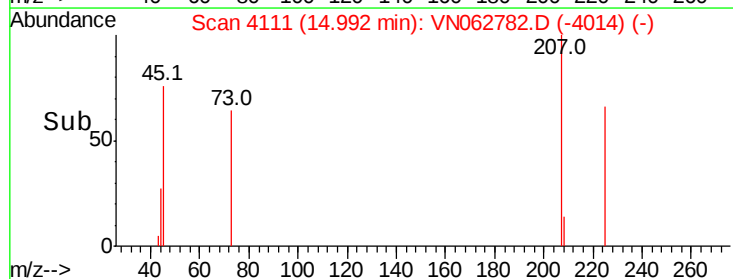
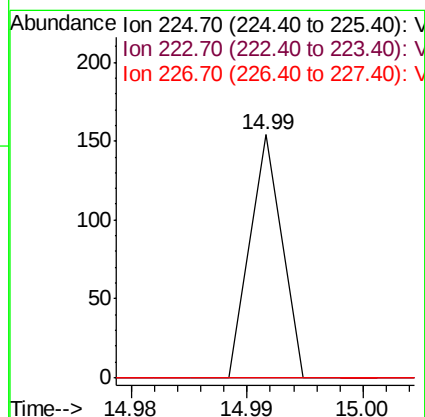
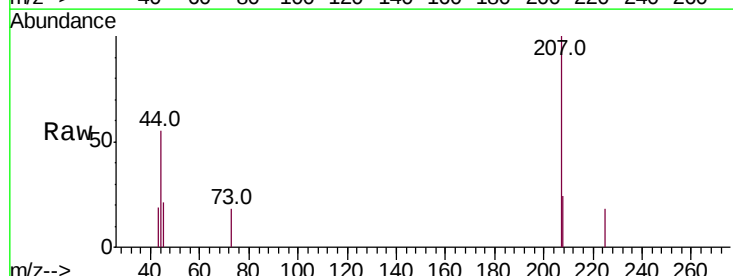
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130807TB

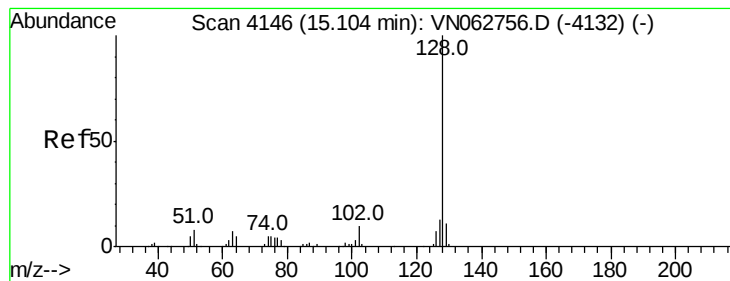
Tot Ion:180 Resp: 867
 Ion Ratio Lower Upper
 180 100
 182 91.3 49.1 147.4
 145 12.0 16.3 48.8#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 14.99 min Scan# 4111
 Delta R.T. 0.01 min
 Lab File: VN062782.D
 Acq: 7 Aug 2020 16:28

Tgt Ion:225 Resp: 30
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.6 92.0#
 227 0.0 31.6 95.0#





#95

Naphthalene

Concen: 4.628 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

Instrument :

MSVOA_N

ClientSampled :

PB130807TB

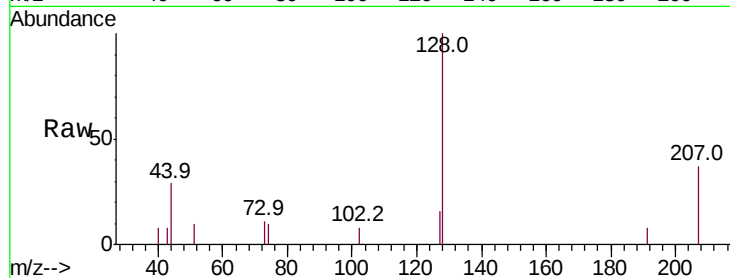
Tot Ion:128 Resp: 3974

Ion Ratio Lower Upper

128 100

127 7.6 10.8 16.2#

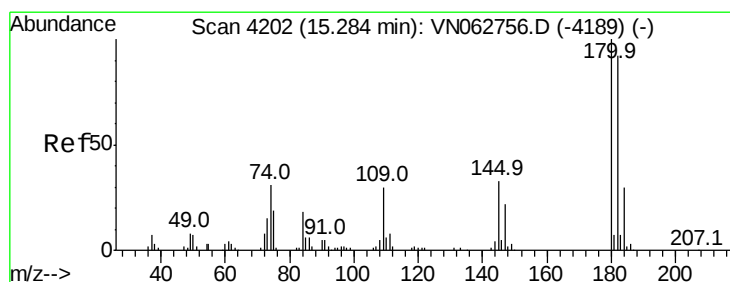
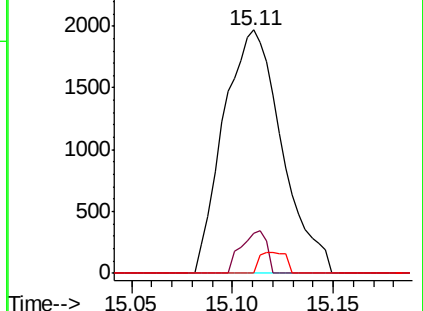
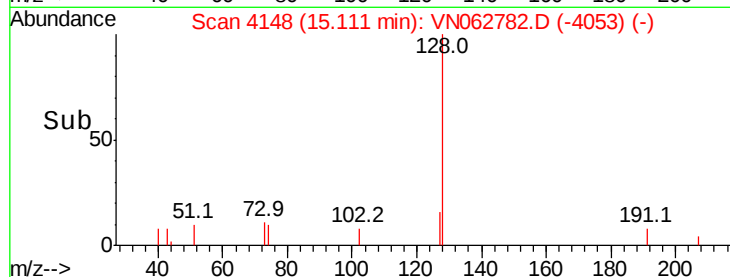
129 3.9 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.541 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. 0.00 min

Lab File: VN062782.D

Acq: 7 Aug 2020 16:28

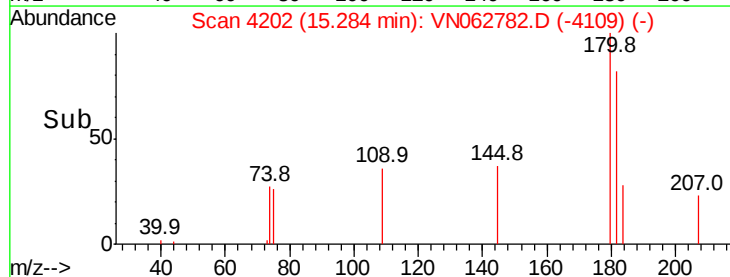
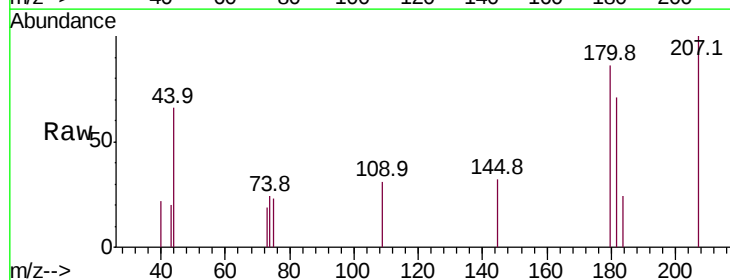
Tgt Ion:180 Resp: 1221

Ion Ratio Lower Upper

180 100

182 85.3 47.9 143.6

145 28.3 17.3 51.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

