

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081119\
 Data File : VN057177.D
 Acq On : 11 Aug 2019 11:01
 Operator : JC/SP
 Sample : VN0811WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0811WBL01

Quant Time: Aug 12 05:51:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

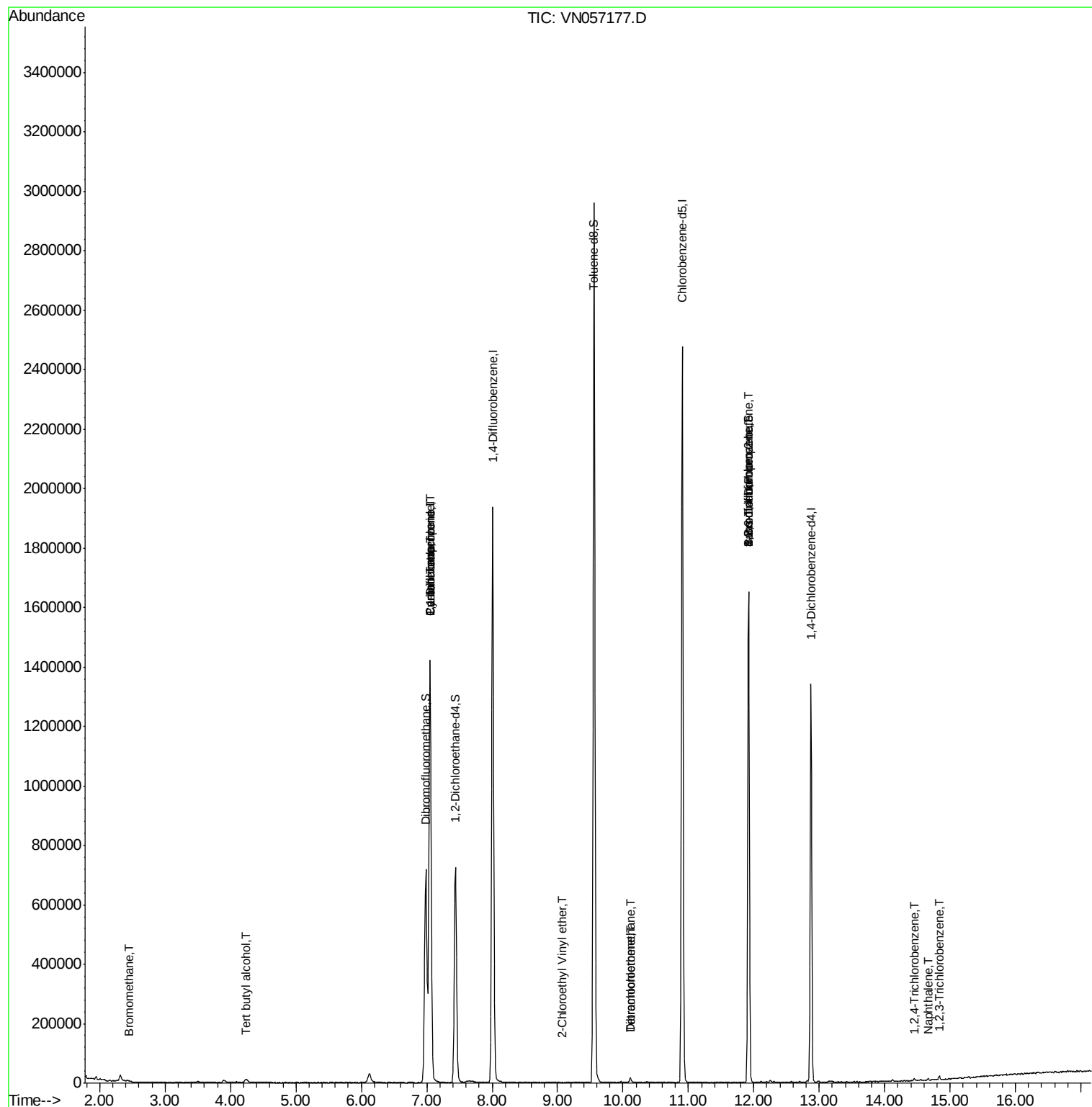
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1378372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1920819	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.90	117	1589696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	404789	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	633914	44.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.44%	
35) Dibromofluoromethane	6.99	113	580143	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
50) Toluene-d8	9.56	98	2201457	47.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.48%	
62) 4-Bromofluorobenzene	11.92	95	583302	39.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.52%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.45	94	2051	0.221	ug/l	98
11) Tert butyl alcohol	4.23	59	9719	4.818	ug/l #	73
18) Methyl Acetate	3.89	43	5896	Below Cal	#	89
31) Cyclohexane	7.05	56	19266	0.937	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	82877	5.240	ug/l #	47
37) Ethyl Acetate	6.29	43	75	Below Cal	#	70
38) Carbon Tetrachloride	7.05	117	116407	7.063	ug/l #	18
58) 2-Chloroethyl Vinyl ether	9.07	63	30	13.120	ug/l #	47
60) Dibromochloromethane	10.11	129	3630	0.283	ug/l #	11
64) Tetrachloroethene	10.11	164	4843	0.366	ug/l	97
71) Bromoform	11.92	173	3354	0.383	ug/l #	1
73) Isopropylbenzene	11.76	105	1448	Below Cal		100
75) 1,1,2,2-Tetrachloroethane	11.92	83	318	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	266861	32.755	ug/l #	100
79) 2-Chlorotoluene	12.20	91	1568	Below Cal	#	68
81) trans-1,4-Dichloro-2-buten	11.92	75	266861	96.934	ug/l #	14
83) tert-Butylbenzene	12.52	119	979	Below Cal	#	84
90) Hexachloroethane	13.14	117	75	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.45	180	3005	6.382	ug/l	96
94) Hexachlorobutadiene	14.55	225	708	Below Cal		75
95) Naphthalene	14.67	128	4898	3.272	ug/l #	88
96) 1,2,3-Trichlorobenzene	14.84	180	4623	6.396	ug/l	92

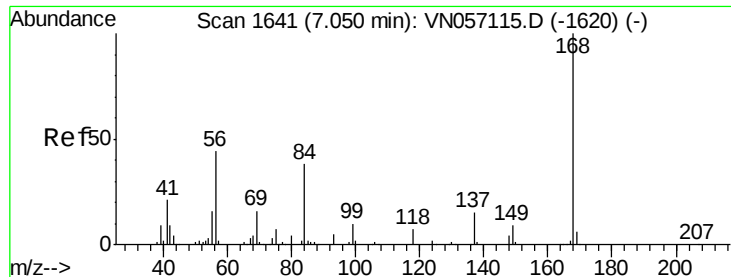
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1641

Delta R.T. -0.00 min

Lab File: VN057177.D

Acq: 11 Aug 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

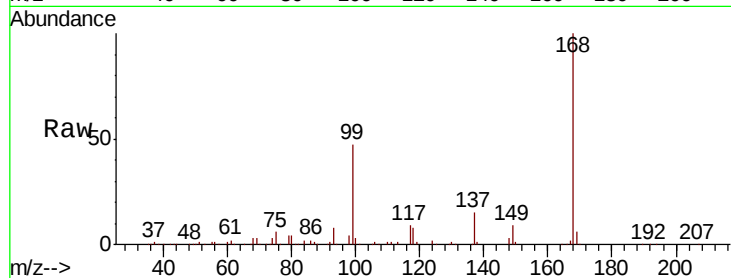
VN0811WBL01

Tgt Ion:168 Resp: 1378372

Ion Ratio Lower Upper

168 100

99 46.7 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057115.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057115.D (-1620) (-)

7.05

600000

500000

400000

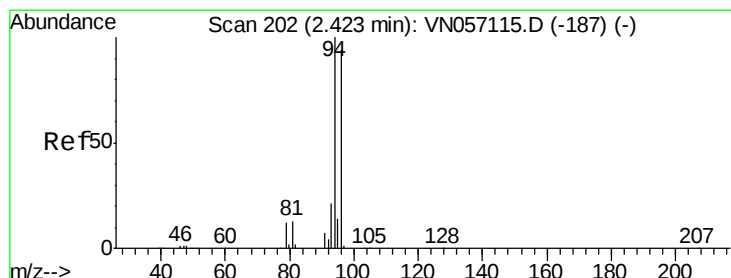
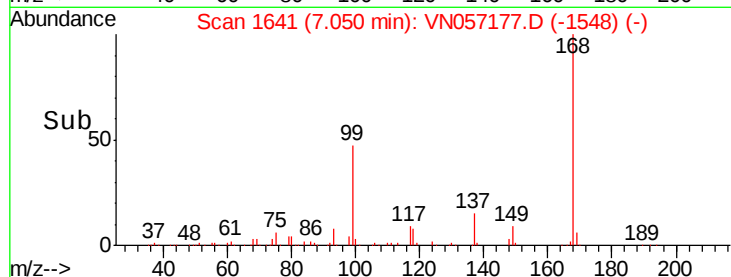
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.221 ug/l

RT: 2.45 min Scan# 210

Delta R.T. 0.03 min

Lab File: VN057177.D

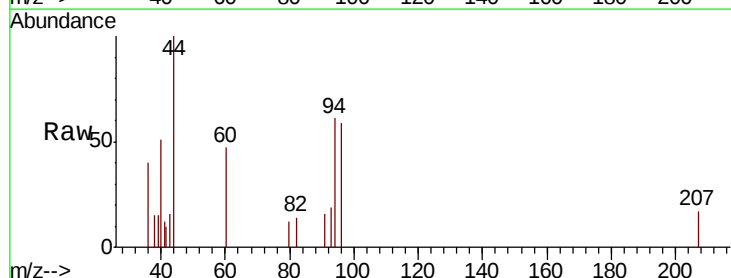
Acq: 11 Aug 2019 11:01

Tgt Ion: 94 Resp: 2051

Ion Ratio Lower Upper

94 100

96 95.6 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VN057115.D (-187) (-)

Ion 95.90 (95.60 to 96.60): VN057115.D (-187) (-)

2.45

1000

800

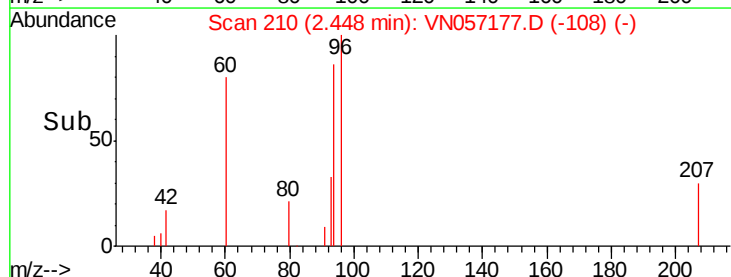
600

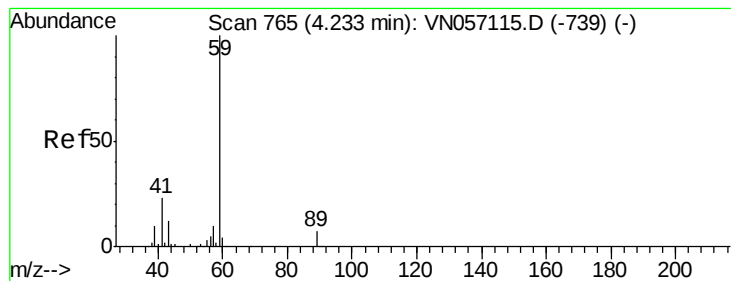
400

200

0

Time-->



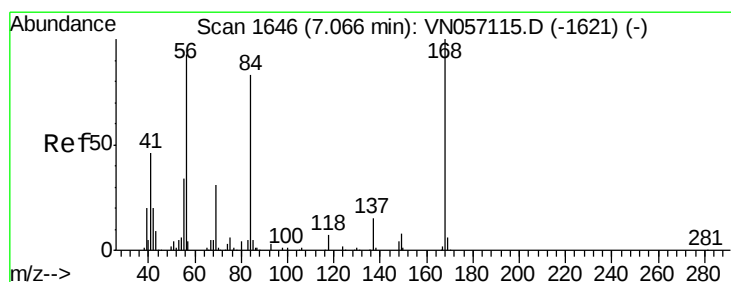
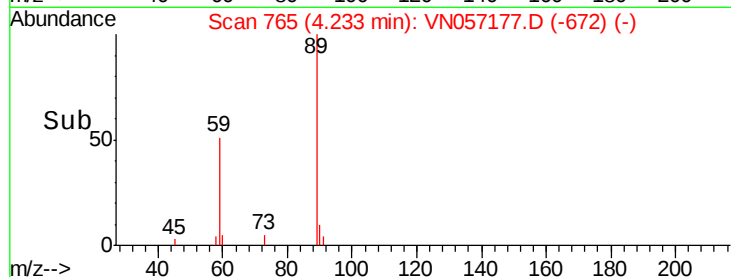
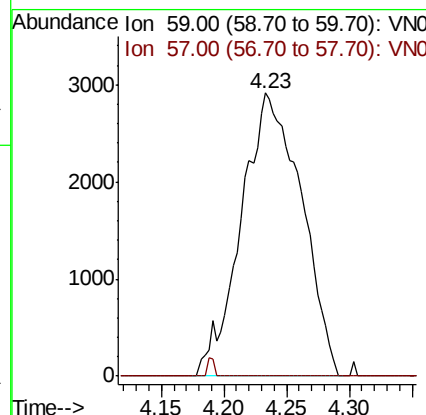
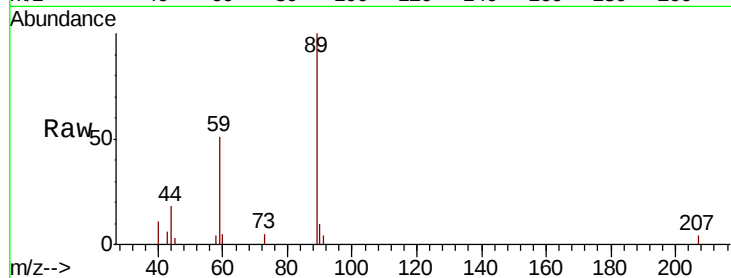


#11

Tert butyl alcohol
 Concen: 4.818 ug/l
 RT: 4.23 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0811WBL01

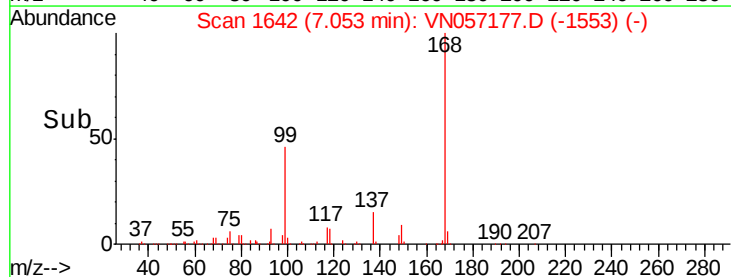
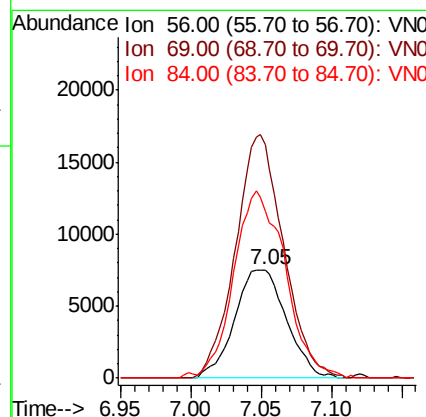
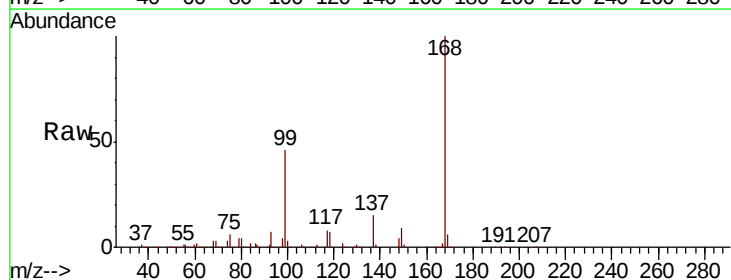
Tgt Ion: 59 Resp: 9719
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

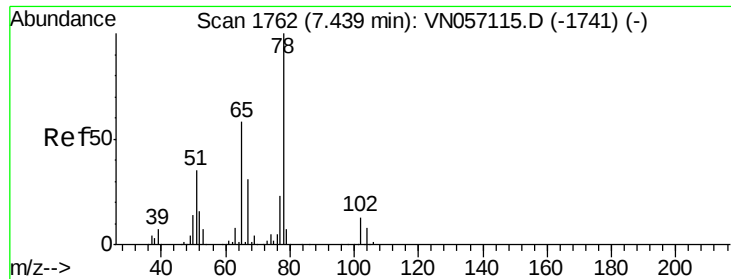


#31

Cyclohexane
 Concen: 0.937 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.01 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

Tgt Ion: 56 Resp: 19266
 Ion Ratio Lower Upper
 56 100
 69 214.5 26.9 40.3#
 84 150.8 71.9 107.9#

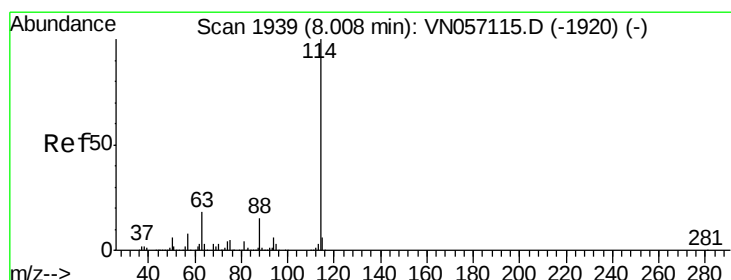
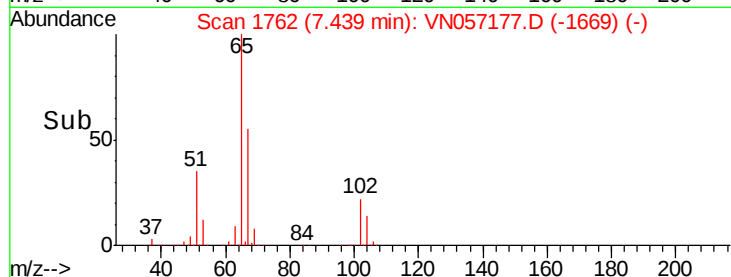
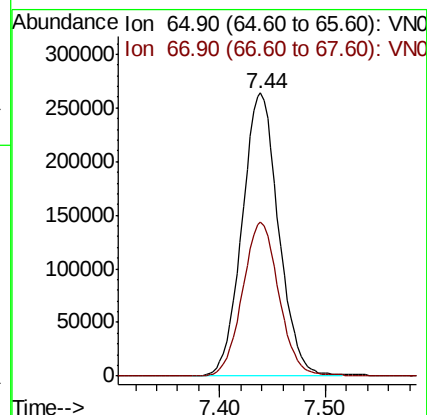
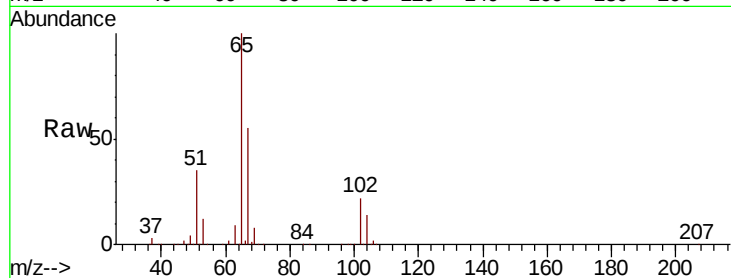




#33
 1,2-Dichloroethane-d4
 Concen: 44.719 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

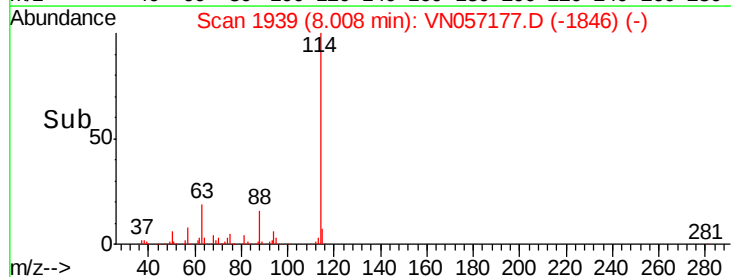
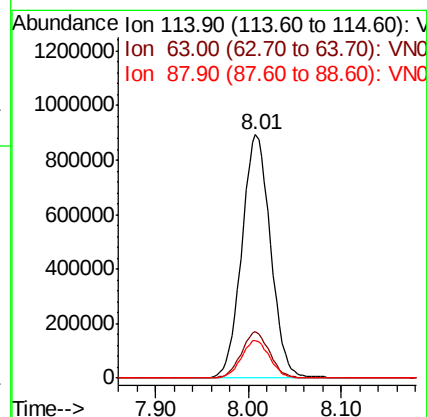
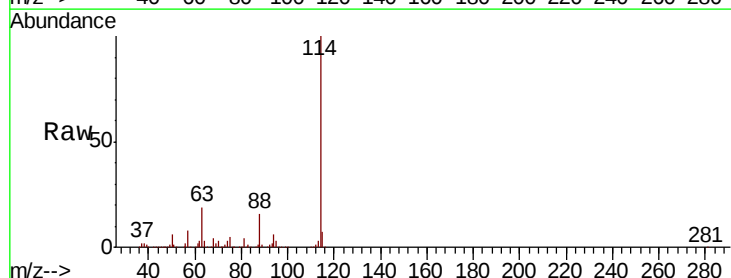
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0811WBL01

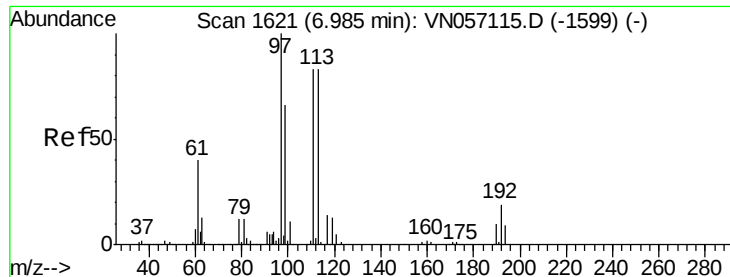
Tgt Ion: 65 Resp: 633914
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

Tgt Ion: 114 Resp: 1920819
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 36.2
 88 15.6 0.0 30.0

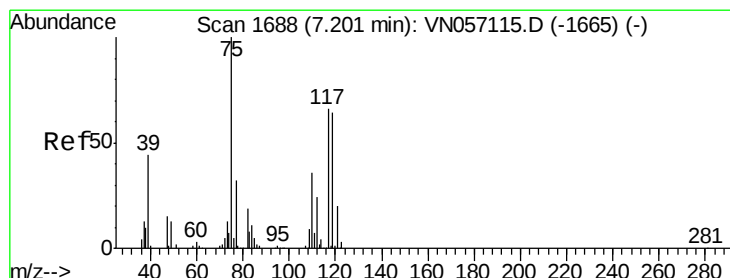
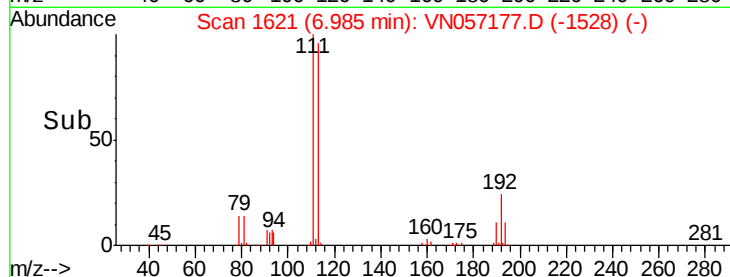
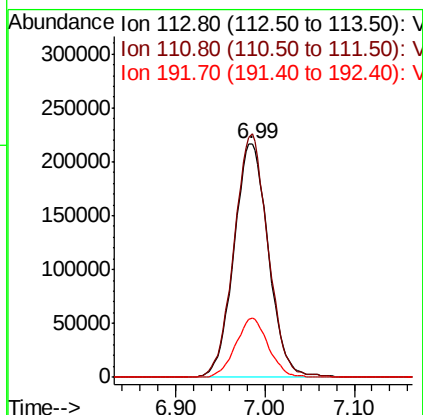
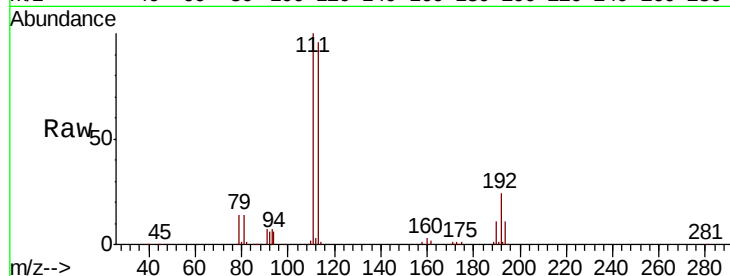




#35
 Dibromofluoromethane
 Concen: 48.131 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

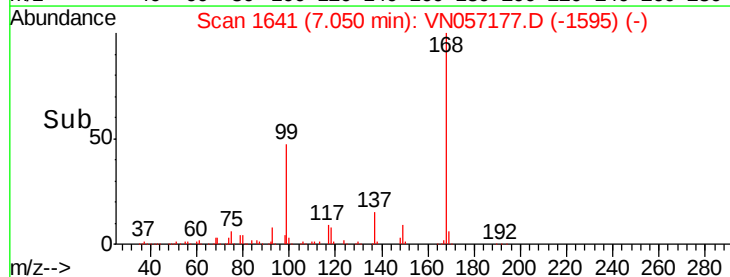
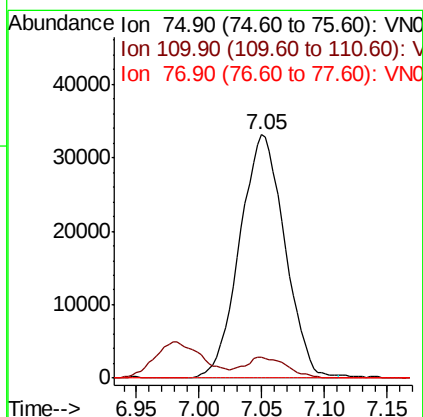
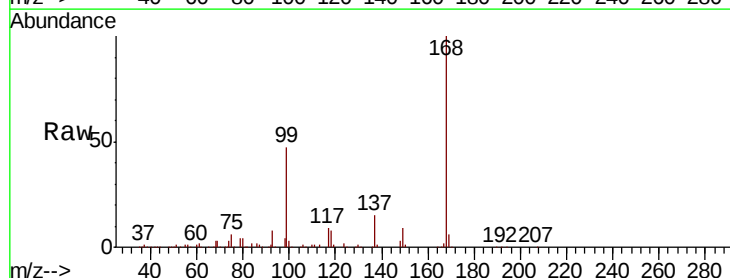
Instrument :
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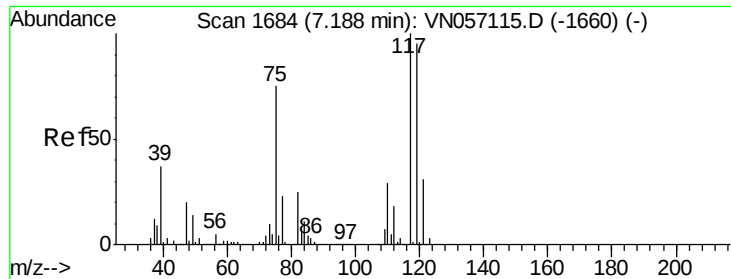
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.3	121.9
192	24.1	19.0	28.4



#36
 1,1-Dichloropropene
 Concen: 5.240 ug/l
 RT: 7.05 min Scan# 1641
 Delta R.T. -0.15 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.7	56.1#
77	0.0	25.0	37.4#

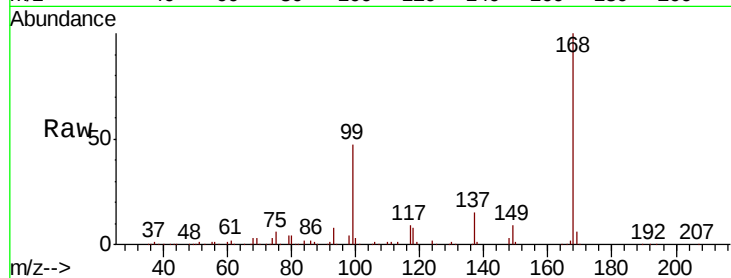




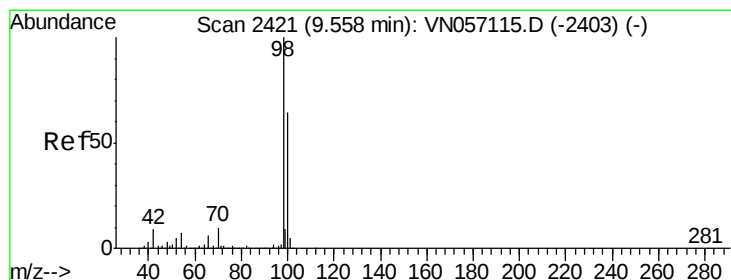
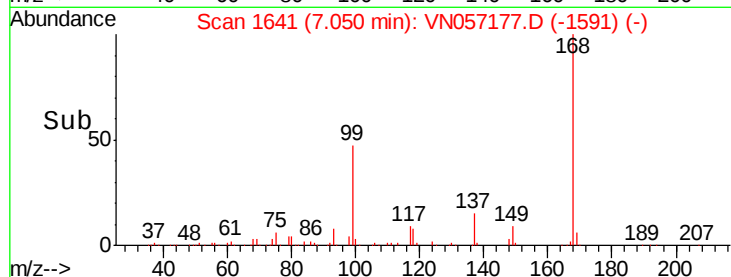
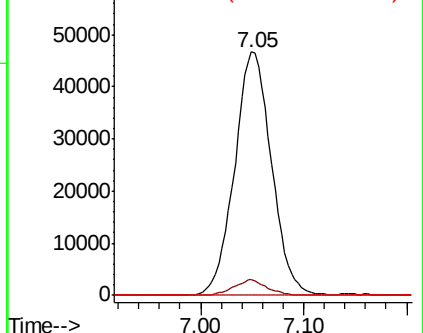
#38
Carbon Tetrachloride
Concen: 7.063 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.14 min
Lab File: VN057177.D
Acq: 11 Aug 2019 11:01

Instrument :
MSVOA_N
ClientSampleId :
VN0811WBL01

Tgt Ion:117 Resp: 116407
Ion Ratio Lower Upper
117 100
119 6.5 75.8 113.6#
121 0.0 24.4 36.6#

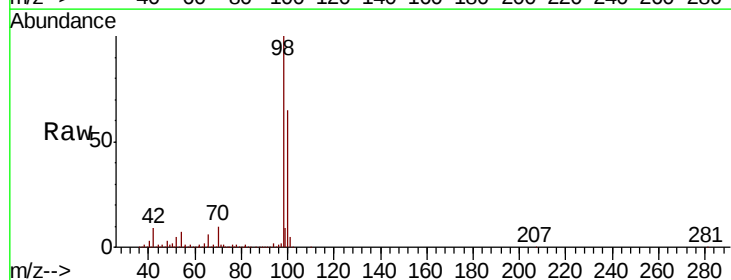


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

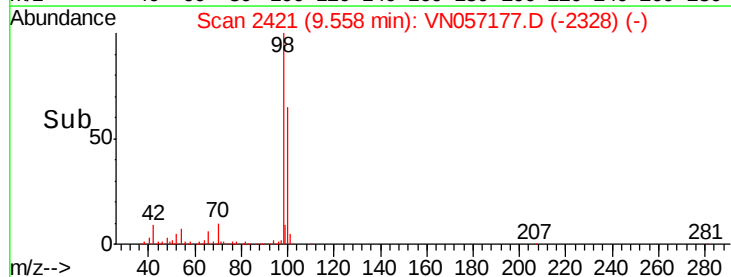
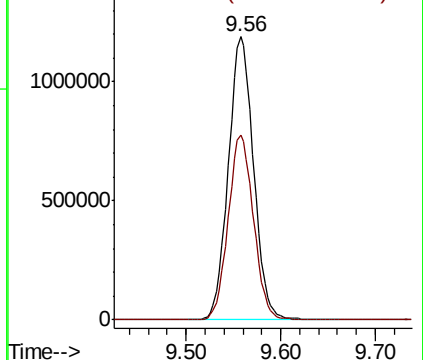


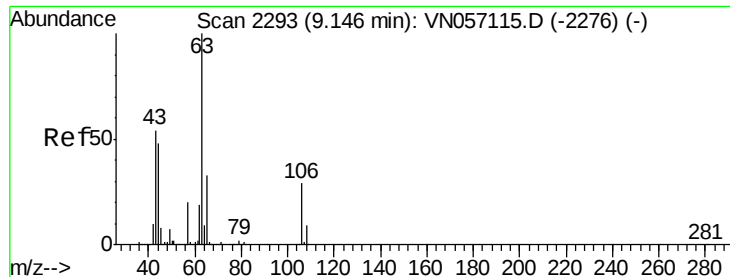
#50
Toluene-d8
Concen: 47.739 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057177.D
Acq: 11 Aug 2019 11:01

Tgt Ion: 98 Resp: 2201457
Ion Ratio Lower Upper
98 100
100 65.6 51.2 76.8



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

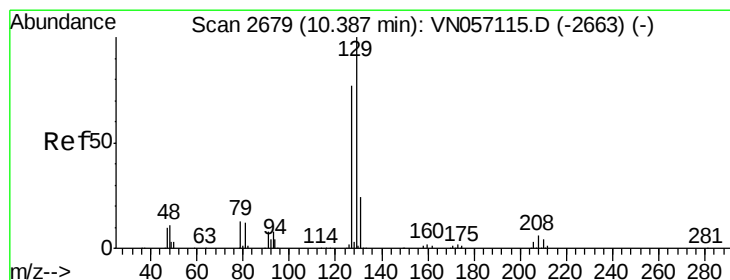
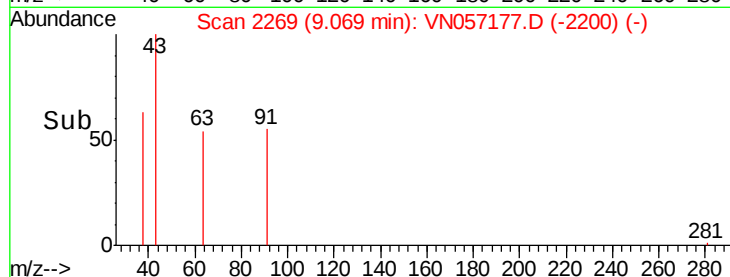
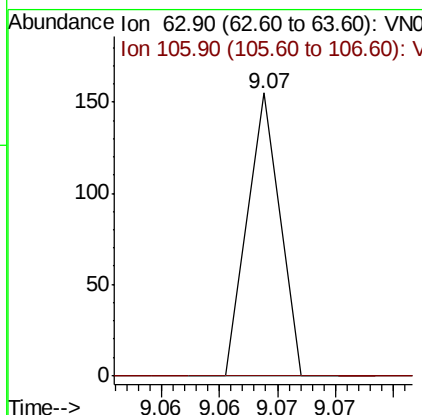
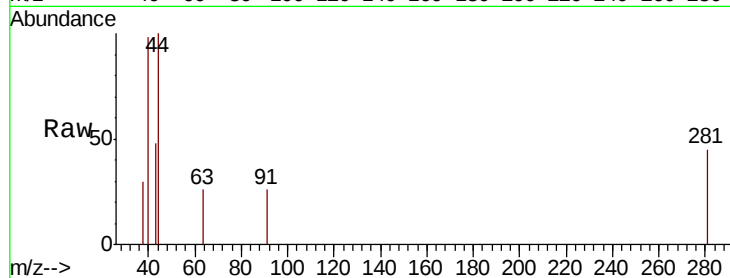




#58
 2-Chloroethyl Vinyl ether
 Concen: 13.120 ug/l
 RT: 9.07 min Scan# 2269
 Delta R.T. -0.08 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

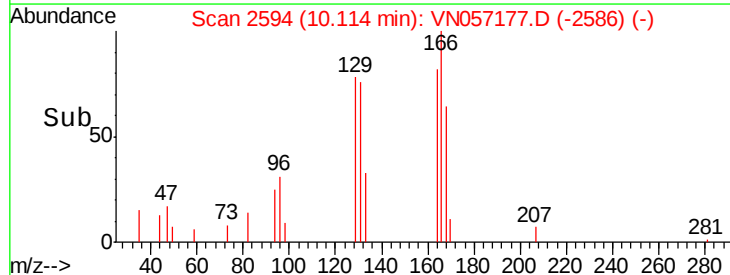
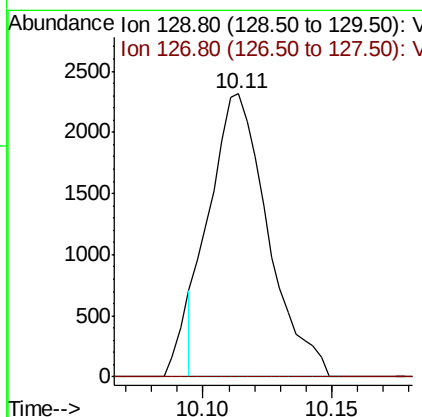
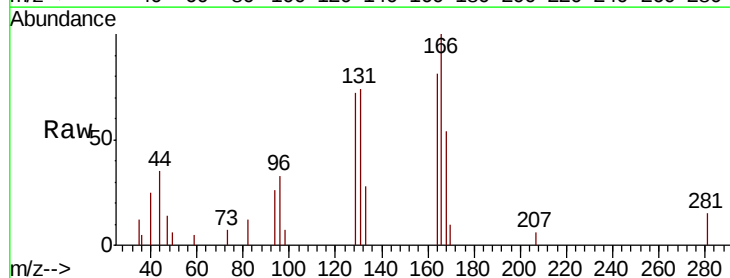
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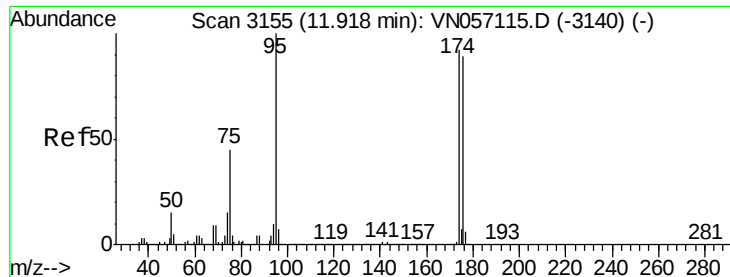
Tgt Ion: 63 Resp: 30
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.6 33.8#



#60
 Dibromochloromethane
 Concen: 0.283 ug/l
 RT: 10.11 min Scan# 2594
 Delta R.T. -0.27 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

Tgt Ion: 129 Resp: 3630
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 39.257 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VN057177.D

Acq: 11 Aug 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

VN0811WBL01

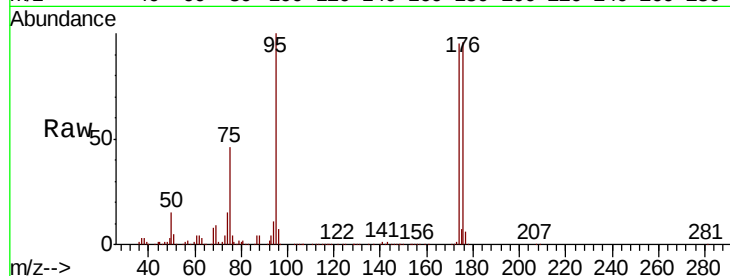
Tgt Ion: 95 Resp: 583302

Ion Ratio Lower Upper

95 100

174 94.9 0.0 185.0

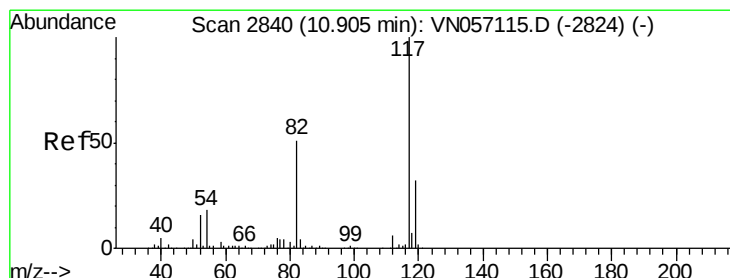
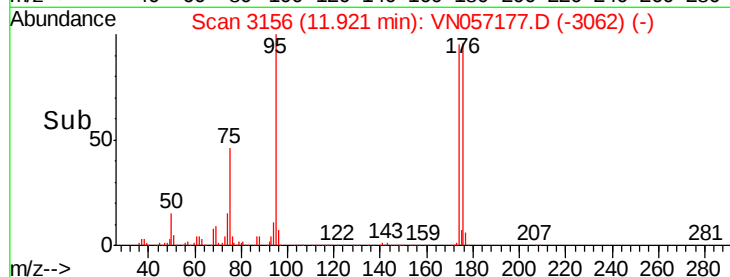
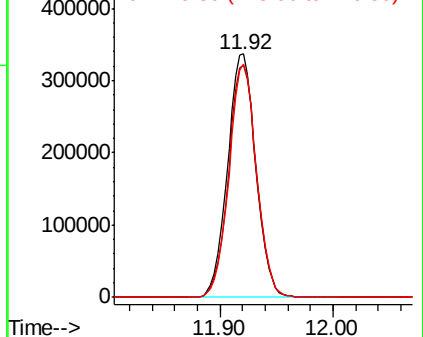
176 93.4 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): VN

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VN057177.D

Acq: 11 Aug 2019 11:01

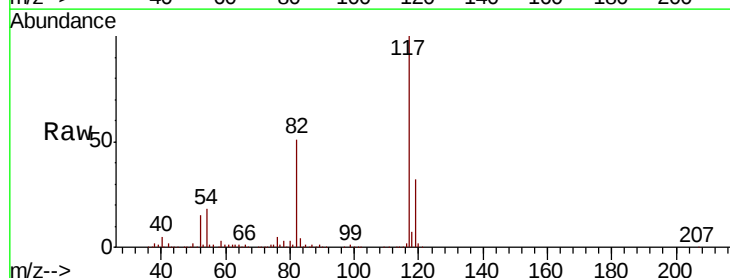
Tgt Ion: 117 Resp: 1589696

Ion Ratio Lower Upper

117 100

82 51.3 40.8 61.2

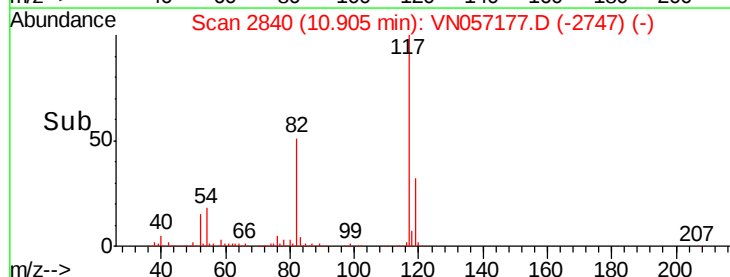
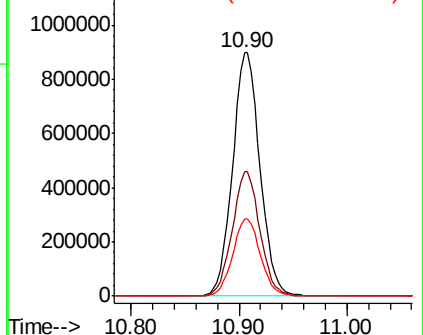
119 31.6 25.7 38.5

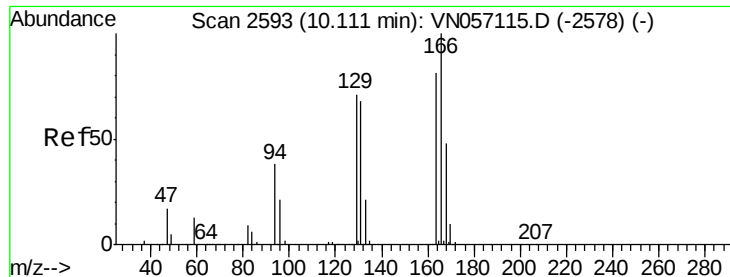


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V

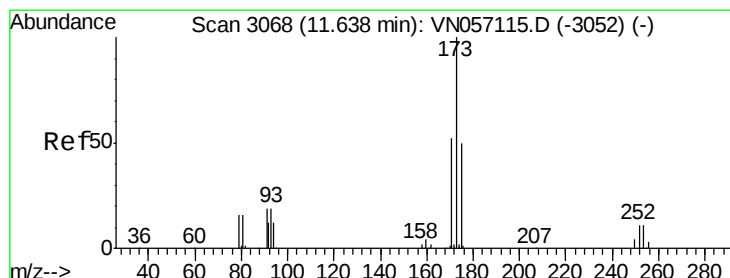
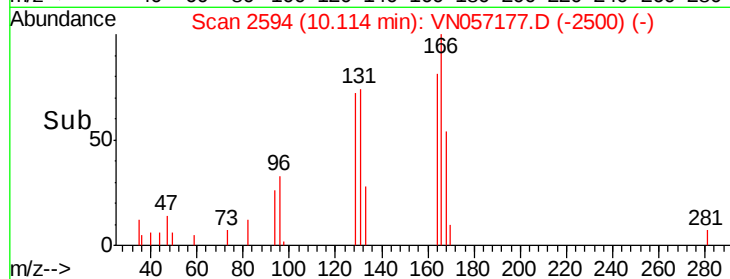
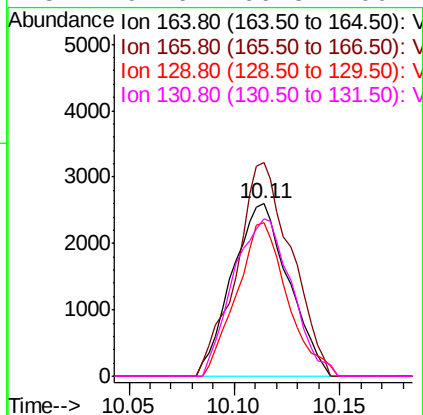
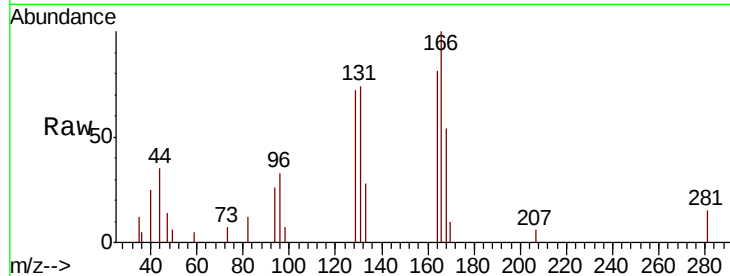




#64
Tetrachloroethene
Concen: 0.366 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. 0.00 min
Lab File: VN057177.D
Acq: 11 Aug 2019 11:01

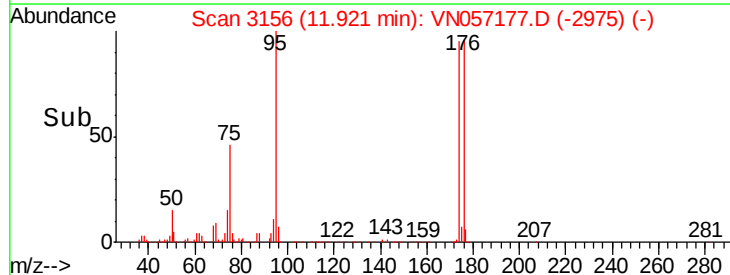
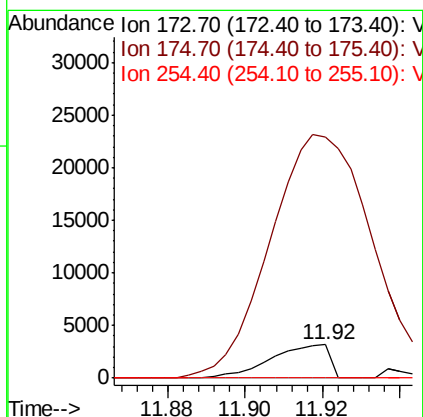
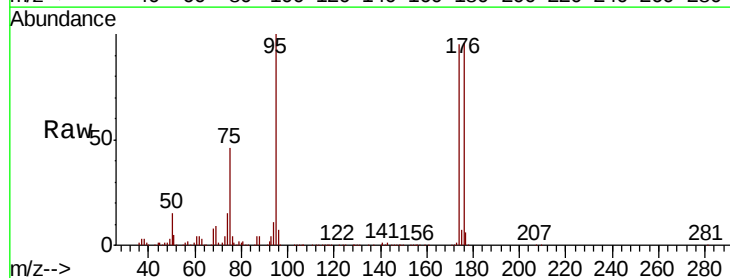
Instrument :
MSVOA_N
ClientSampleId :
VN0811WBL01

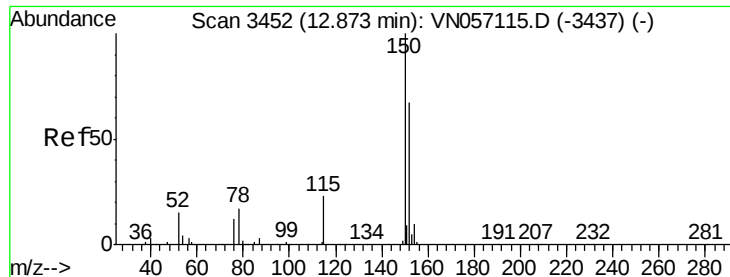
Tgt Ion:164 Resp: 4843
Ion Ratio Lower Upper
164 100
166 123.8 98.3 147.5
129 89.0 69.8 104.6
131 91.6 66.8 100.2



#71
Bromoform
Concen: 0.383 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.28 min
Lab File: VN057177.D
Acq: 11 Aug 2019 11:01

Tgt Ion:173 Resp: 3354
Ion Ratio Lower Upper
173 100
175 863.1 24.6 73.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.88 min Scan# 3453

Delta R.T. 0.00 min

Lab File: VN057177.D

Acq: 11 Aug 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

VN0811WBL01

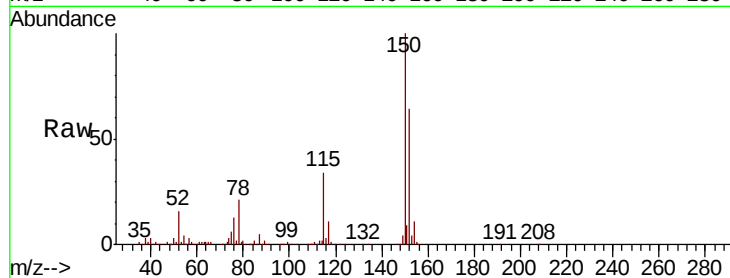
Tgt Ion:152 Resp: 404789

Ion Ratio Lower Upper

152 100

115 54.4 27.5 82.5

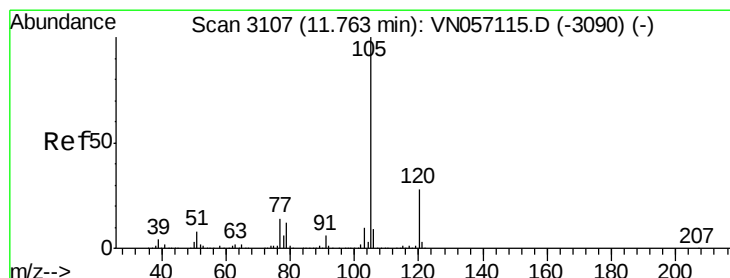
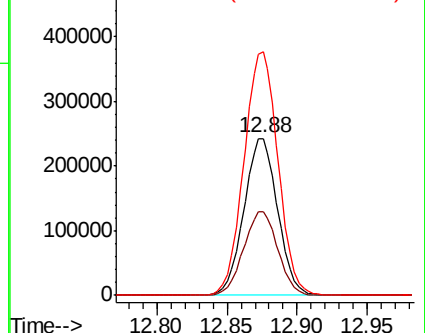
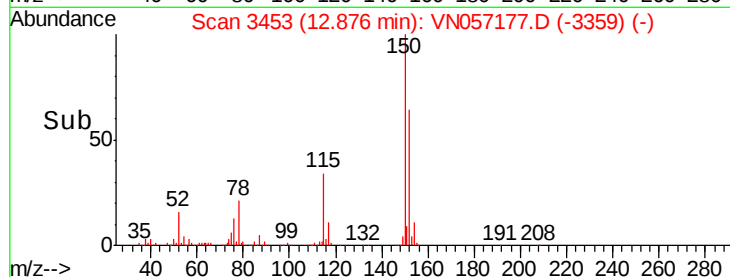
150 157.2 0.0 341.6



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 11.76 min Scan# 3105

Delta R.T. -0.01 min

Lab File: VN057177.D

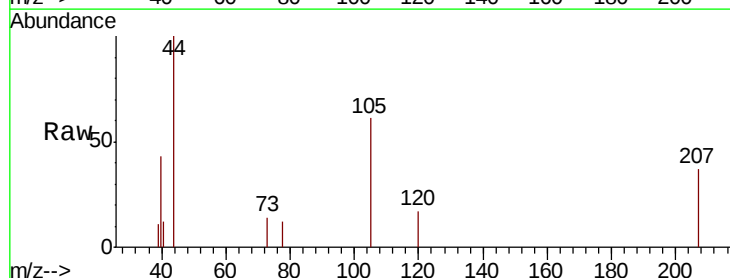
Acq: 11 Aug 2019 11:01

Tgt Ion:105 Resp: 1448

Ion Ratio Lower Upper

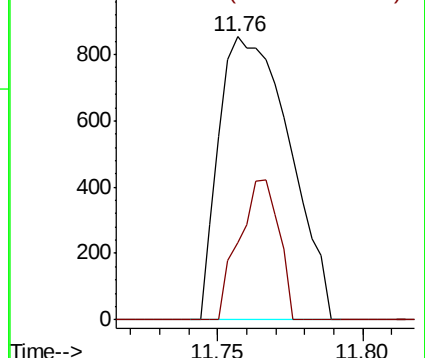
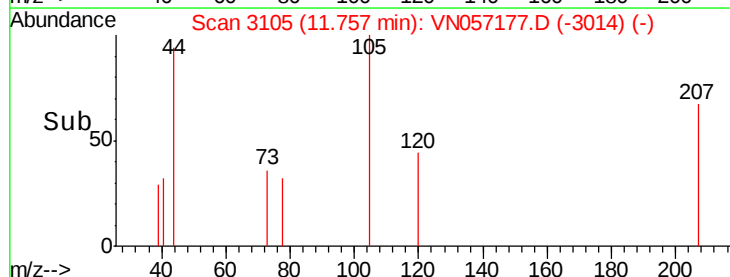
105 100

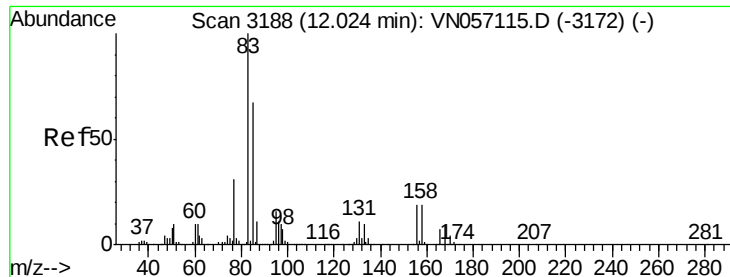
120 27.6 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.92 min Scan# 3155

Delta R.T. -0.11 min

Lab File: VN057177.D

Acq: 11 Aug 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

VN0811WBL01

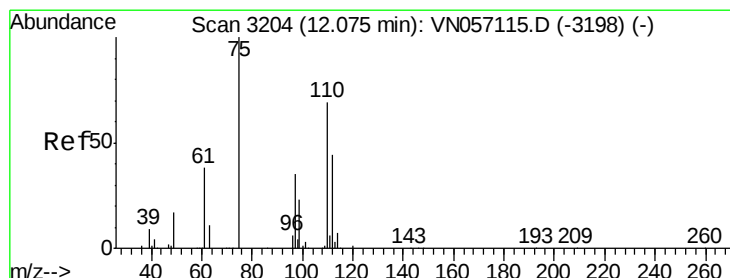
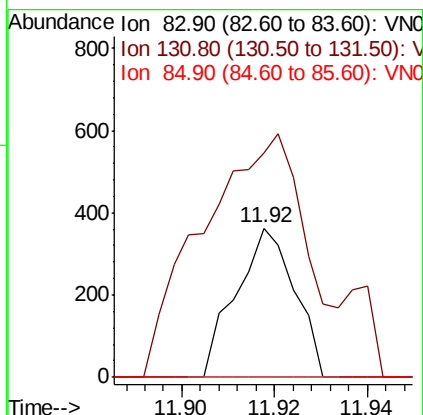
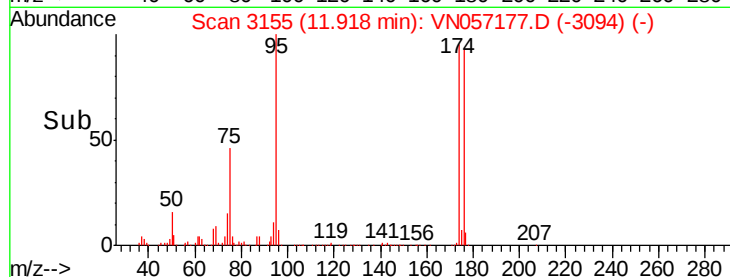
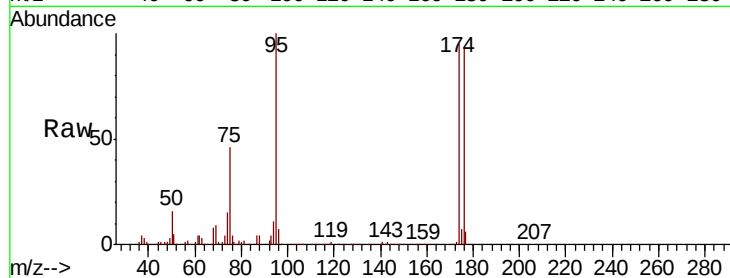
Tgt Ion: 83 Resp: 318

Ion Ratio Lower Upper

83 100

131 318.9 5.5 16.4#

85 0.0 32.4 97.0#



#76

1,2,3-Trichloropropane

Concen: 32.755 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. -0.16 min

Lab File: VN057177.D

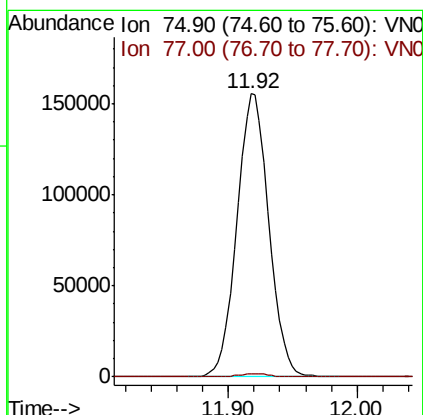
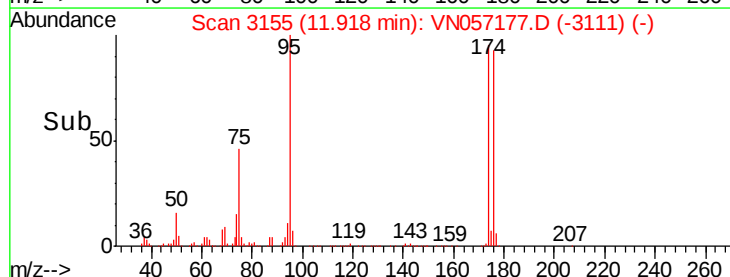
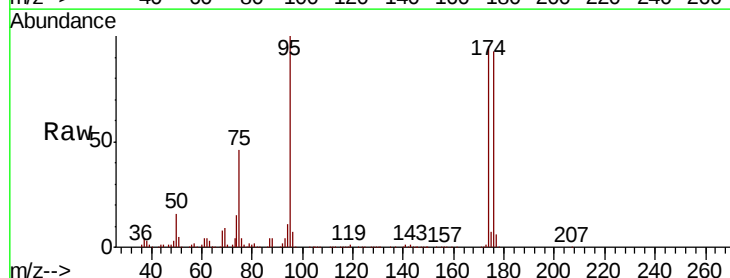
Acq: 11 Aug 2019 11:01

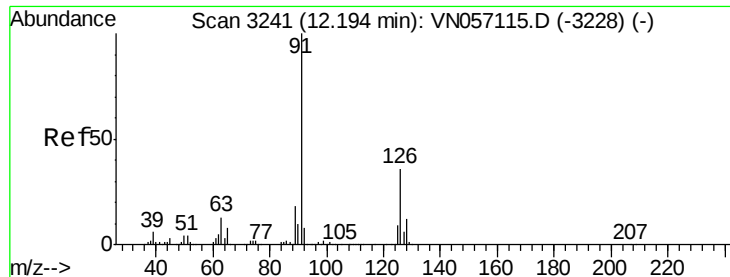
Tgt Ion: 75 Resp: 266861

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

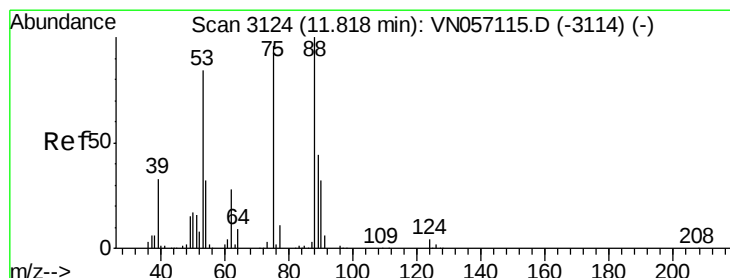
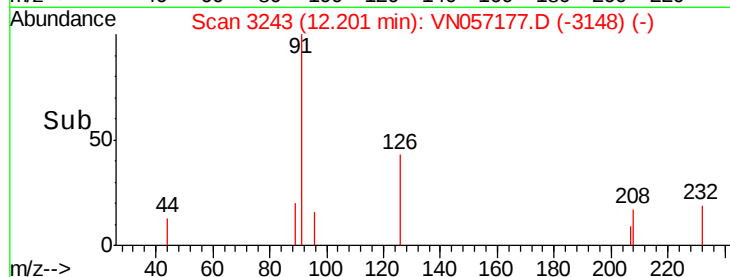
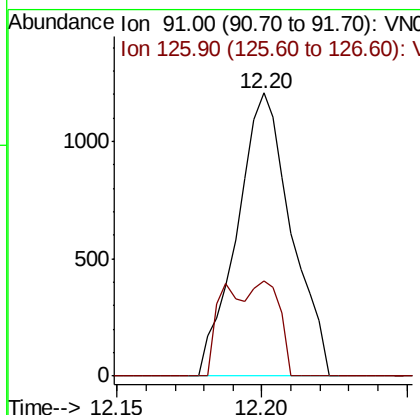
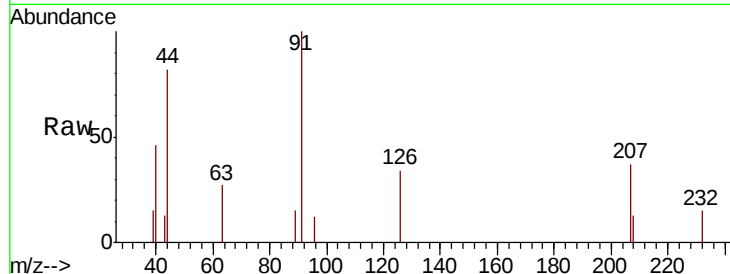




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.20 min Scan# 3243
 Delta R.T. 0.01 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

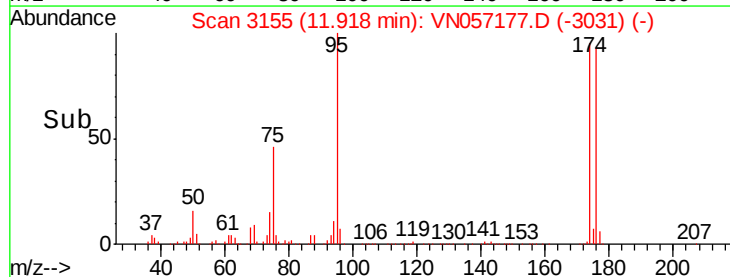
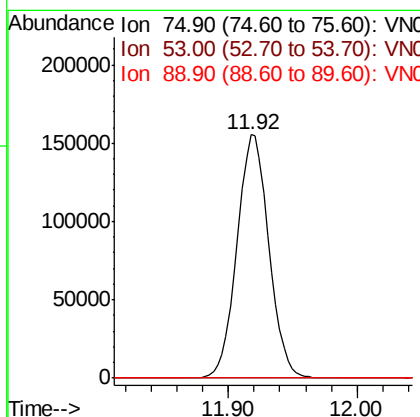
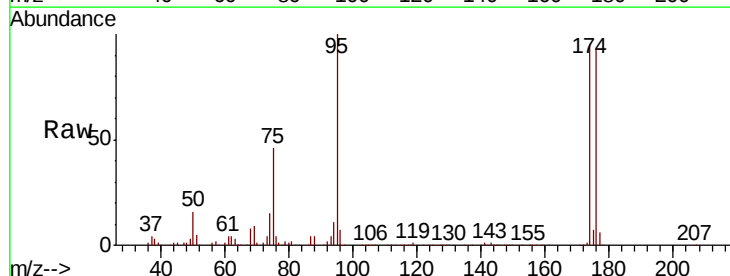
Instrument :
 MSVOA_N
 ClientSampled :
 VN0811WBL01

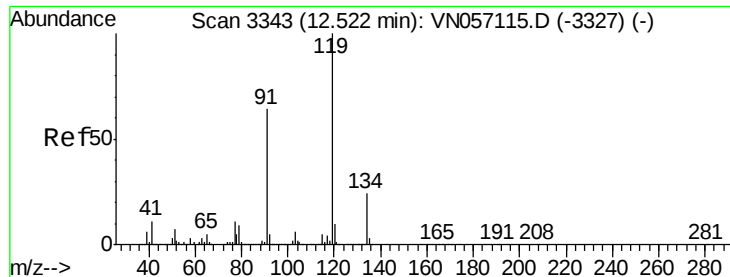
Tgt Ion: 91 Resp: 1568
 Ion Ratio Lower Upper
 91 100
 126 17.6 18.1 54.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.934 ug/l
 RT: 11.92 min Scan# 3155
 Delta R.T. 0.10 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

Tgt Ion: 75 Resp: 266861
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.6 106.0#
 89 0.0 36.4 54.6#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN057177.D

Acq: 11 Aug 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

VN0811WBL01

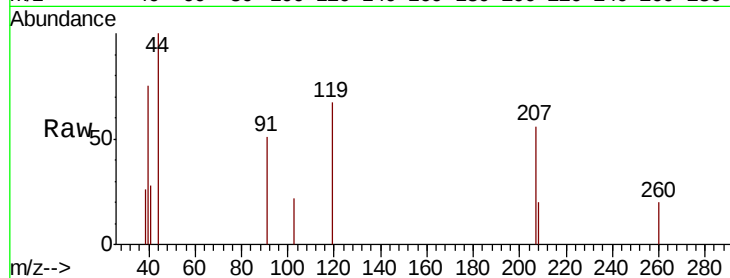
Tgt Ion:119 Resp: 979

Ion Ratio Lower Upper

119 100

91 56.7 31.4 94.2

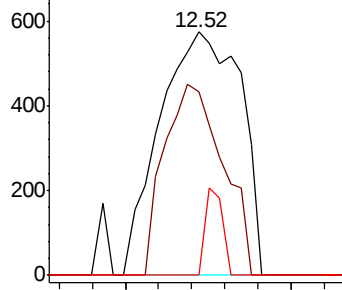
134 7.7 13.2 39.6#



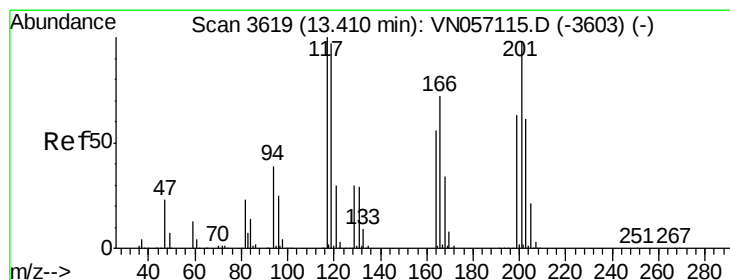
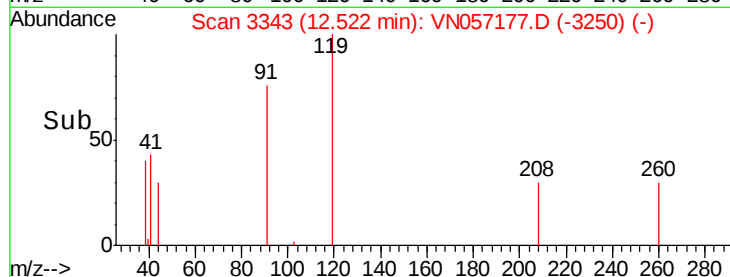
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#90

Hexachloroethane

Concen: Below Cal

RT: 13.14 min Scan# 3536

Delta R.T. -0.27 min

Lab File: VN057177.D

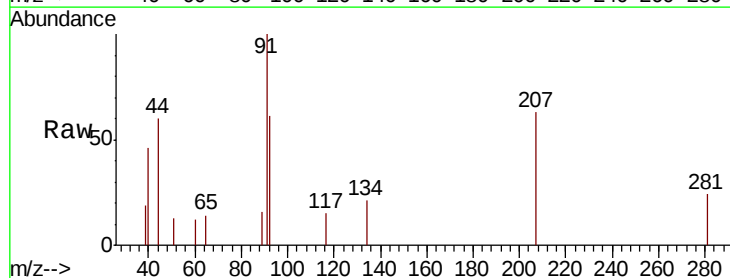
Acq: 11 Aug 2019 11:01

Tgt Ion:117 Resp: 75

Ion Ratio Lower Upper

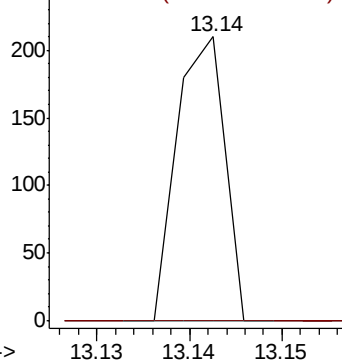
117 100

201 0.0 49.3 147.8#

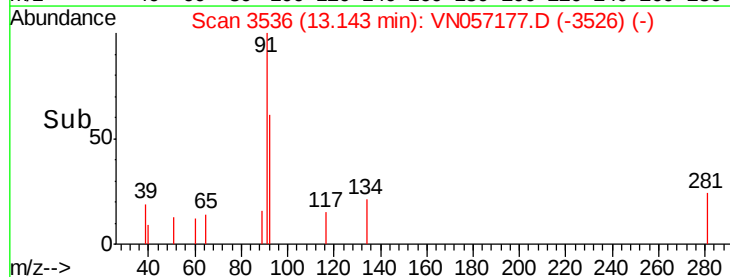


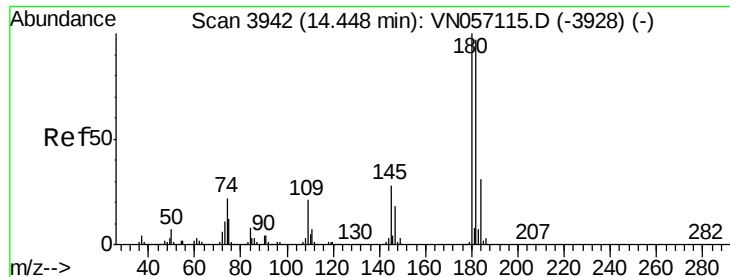
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->

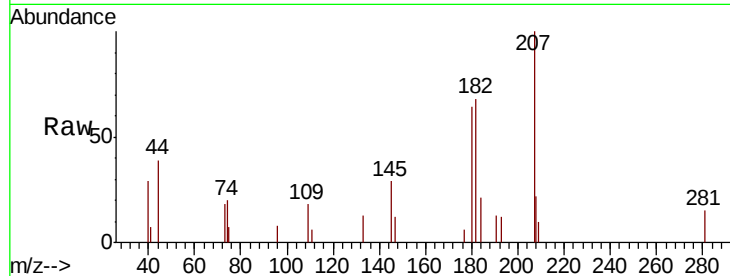




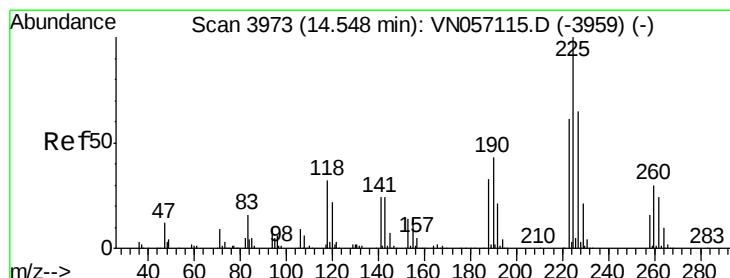
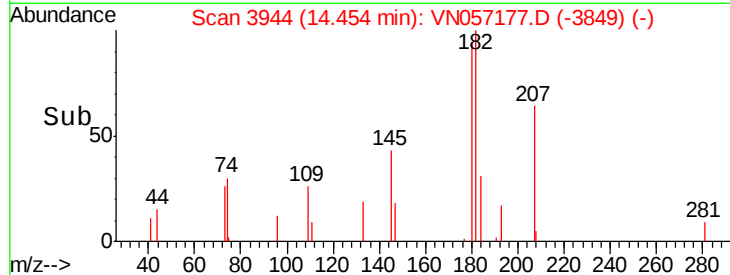
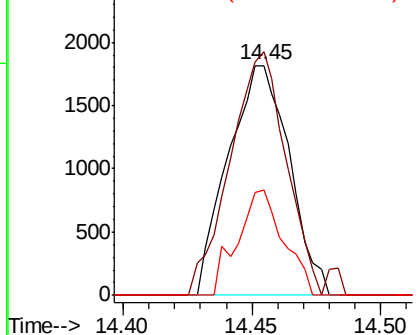
#93
 1,2,4-Trichlorobenzene
 Concen: 6.382 ug/l
 RT: 14.45 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0811WBL01

Tgt Ion:180 Resp: 3005
 Ion Ratio Lower Upper
 180 100
 182 96.9 47.5 142.6
 145 34.5 14.1 42.2

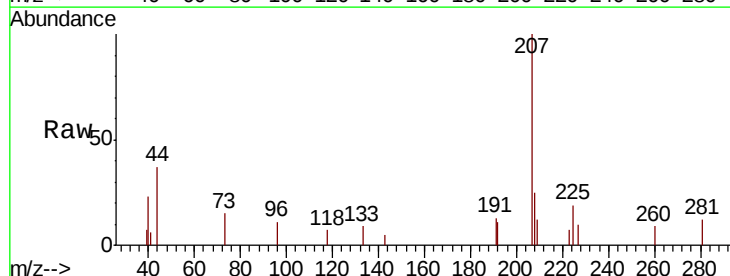


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

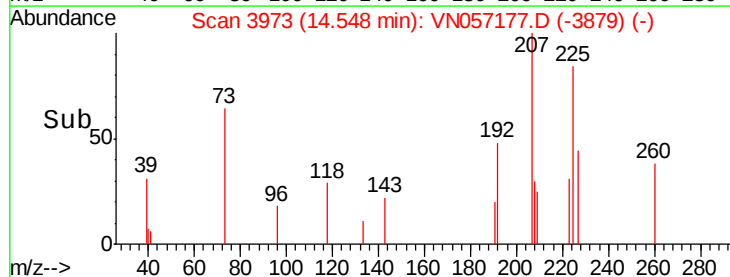
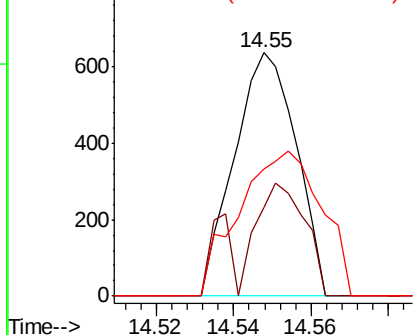


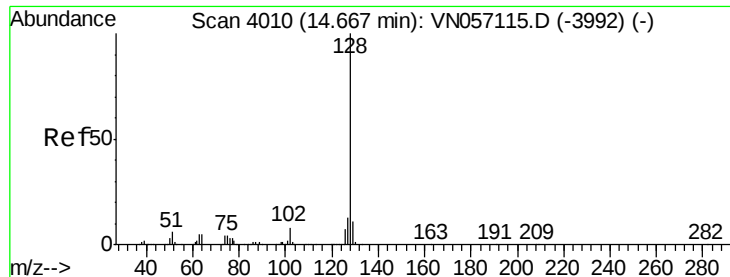
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 14.55 min Scan# 3973
 Delta R.T. 0.00 min
 Lab File: VN057177.D
 Acq: 11 Aug 2019 11:01

Tgt Ion:225 Resp: 708
 Ion Ratio Lower Upper
 225 100
 223 36.7 30.9 92.8
 227 79.0 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.272 ug/l

RT: 14.67 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VN057177.D

Acq: 11 Aug 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

VN0811WBL01

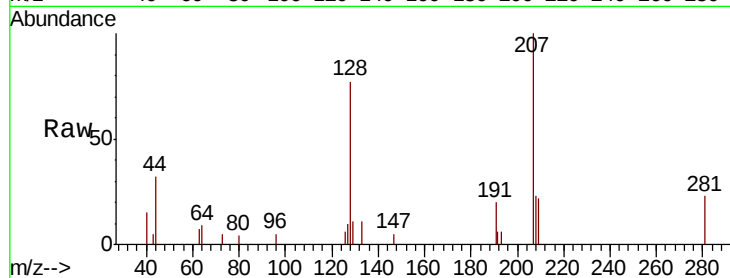
Tgt Ion:128 Resp: 4898

Ion Ratio Lower Upper

128 100

127 8.3 10.3 15.5#

129 15.9 8.8 13.2#

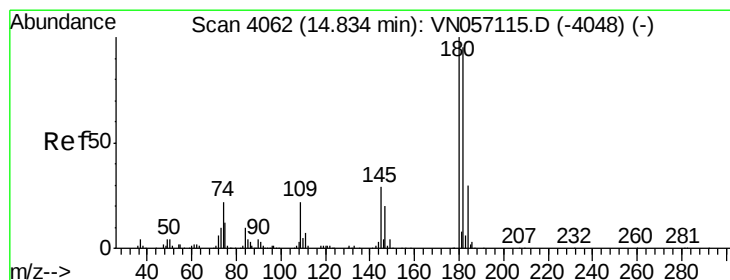
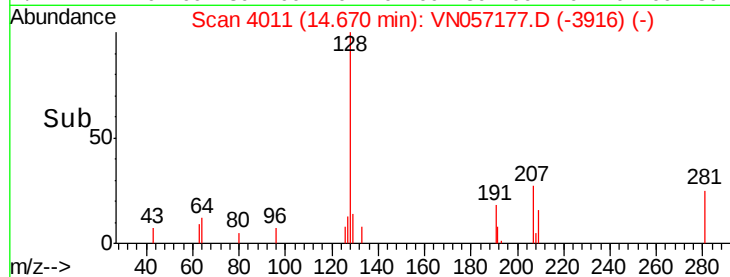
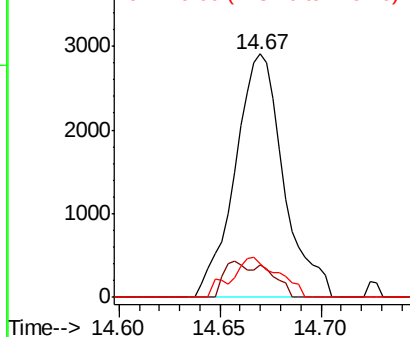


Abundance

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: 6.396 ug/l

RT: 14.84 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VN057177.D

Acq: 11 Aug 2019 11:01

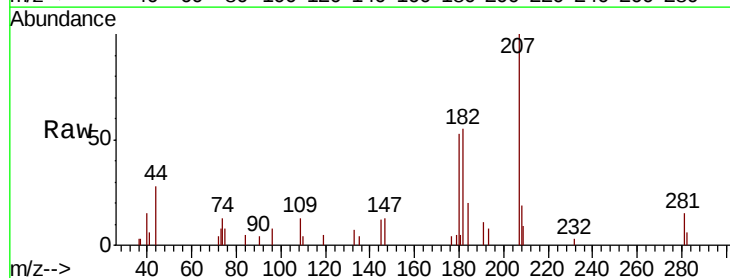
Tgt Ion:180 Resp: 4623

Ion Ratio Lower Upper

180 100

182 89.8 48.3 144.8

145 23.8 14.9 44.5



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

