

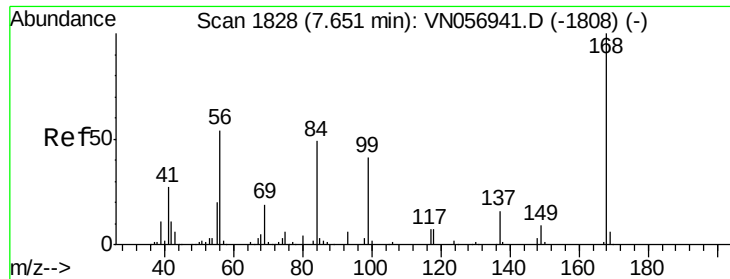
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073119\
 Data File : VN057000.D
 Acq On : 31 Jul 2019 9:28
 Operator : JC/SP
 Sample : VN0731WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0731WBL01

Quant Time: Aug 01 01:16:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	530089	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	766476	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	612989	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	155115	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	263723	48.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.20%	
35) Dibromofluoromethane	7.58	113	239603	48.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.66%	
50) Toluene-d8	10.08	98	895057	47.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.66%	
62) 4-Bromofluorobenzene	12.40	95	219891	36.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	72.20%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.72	59	2319	3.162	ug/l #	74
31) Cyclohexane	7.65	56	8187	0.918	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	33748	5.004	ug/l #	47
38) Carbon Tetrachloride	7.65	117	45259	7.094	ug/l #	17
59) 2-Hexanone	10.75	43	1126	2.773	ug/l #	50
70) Styrene	11.96	104	375	1.893	ug/l #	32
71) Bromoform	12.40	173	2006	0.611	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	102404	32.508	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	102404	104.447	ug/l #	15
87) 1,3-Dichlorobenzene	13.28	146	1168	0.219	ug/l	86
88) 1,4-Dichlorobenzene	13.37	146	1735	0.339	ug/l #	25
91) 1,2-Dichlorobenzene	13.65	146	1805	0.345	ug/l	90
93) 1,2,4-Trichlorobenzene	14.91	180	2150	3.464	ug/l	87
94) Hexachlorobutadiene	15.00	225	537	Below Cal		76
95) Naphthalene	15.12	128	4465	4.217	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	3077	3.130	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

Instrument :

MSVOA_N

ClientSampled :

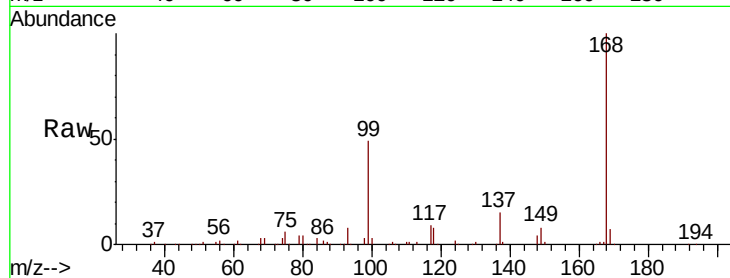
VN0731WBL01

Tot Ion:168 Resp: 530089

Ion Ratio Lower Upper

168 100

99 48.6 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

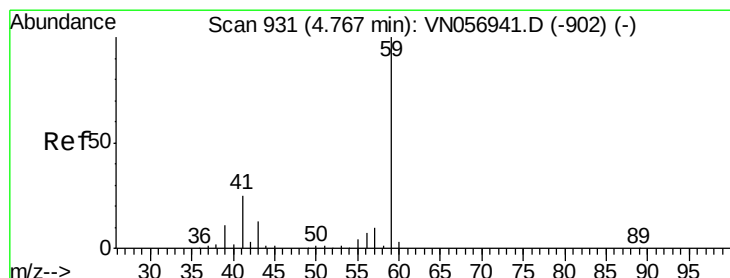
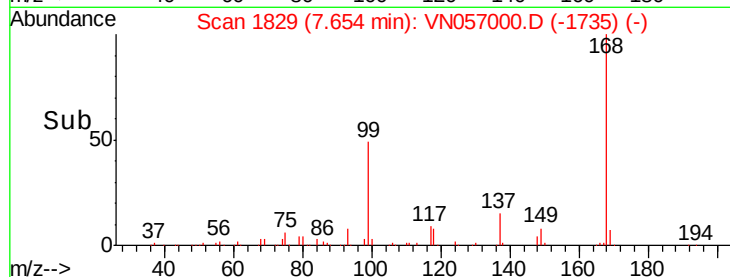
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.162 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.05 min

Lab File: VN057000.D

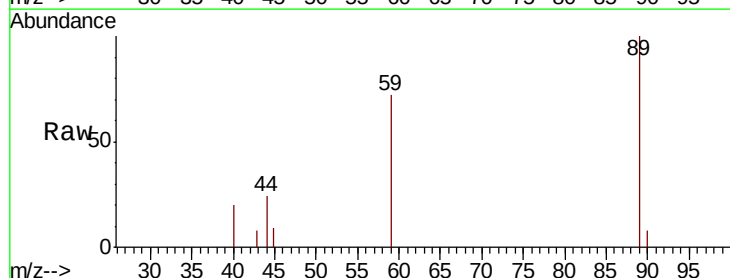
Acq: 31 Jul 2019 9:28

Tgt Ion: 59 Resp: 2319

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

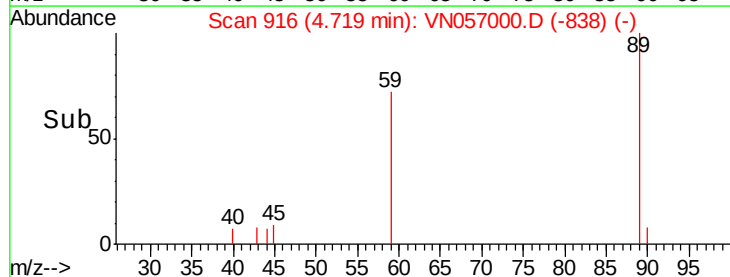
1500

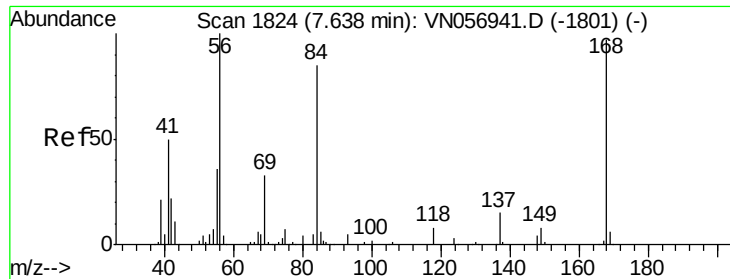
1000

500

0

Time-->





#31

Cyclohexane

Concen: 0.918 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

Instrument :

MSVOA_N

ClientSampleId :

VN0731WBL01

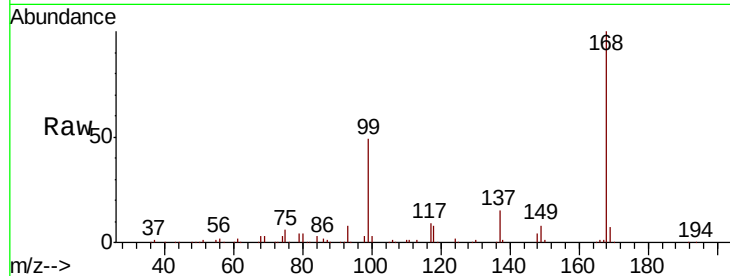
Tot Ion: 56 Resp: 8187

Ion Ratio Lower Upper

56 100

69 193.6 26.2 39.2#

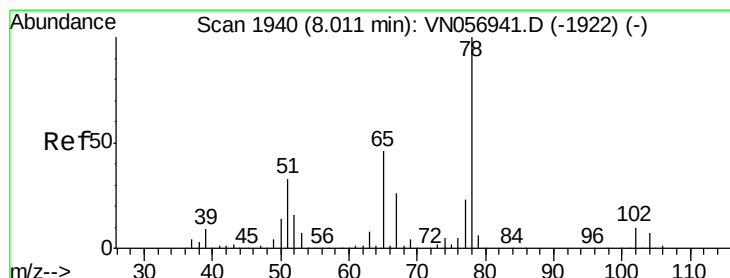
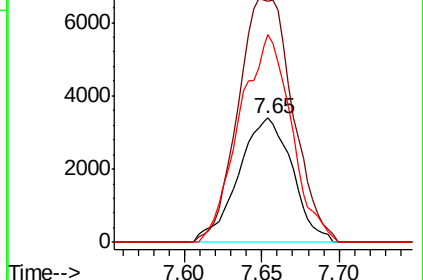
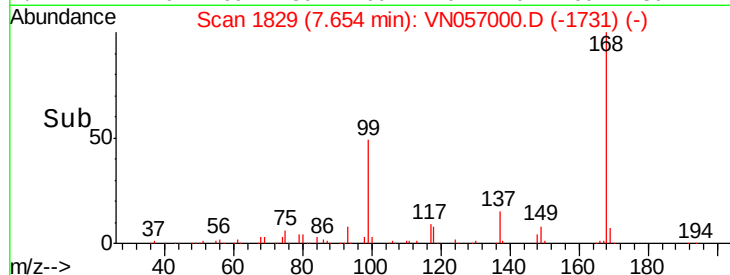
84 167.2 68.2 102.2#



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: 48.602 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057000.D

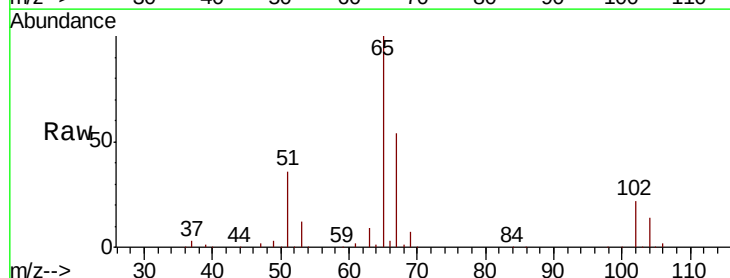
Acq: 31 Jul 2019 9:28

Tgt Ion: 65 Resp: 263723

Ion Ratio Lower Upper

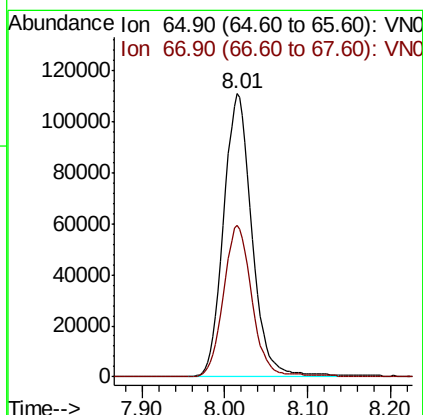
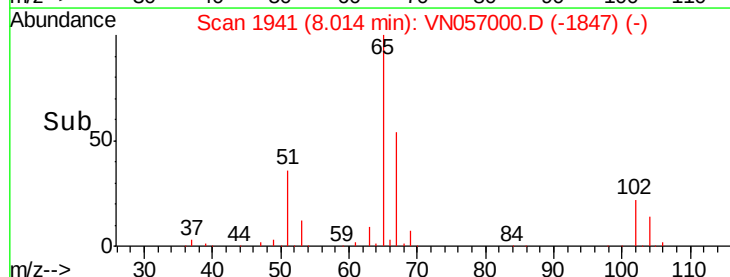
65 100

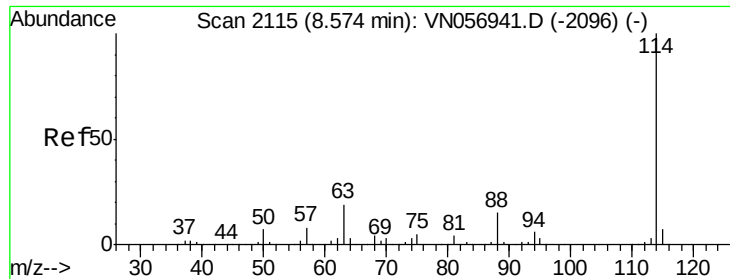
67 53.0 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

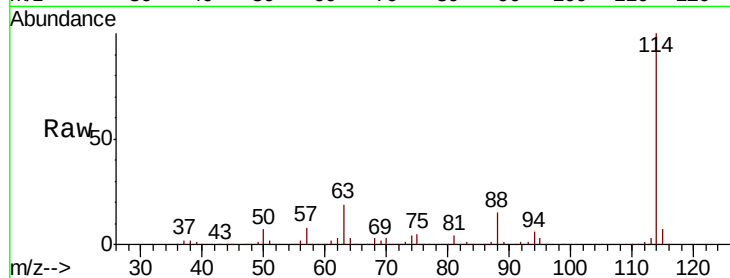




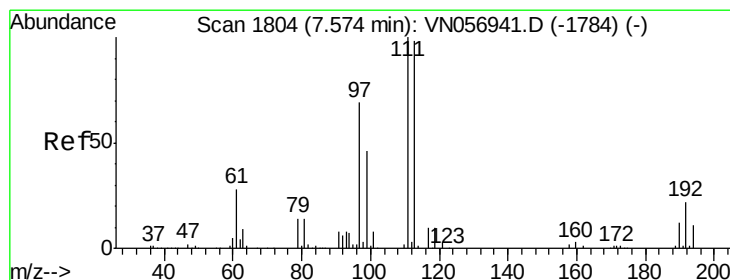
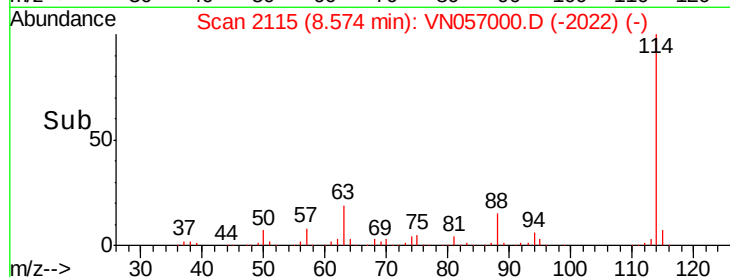
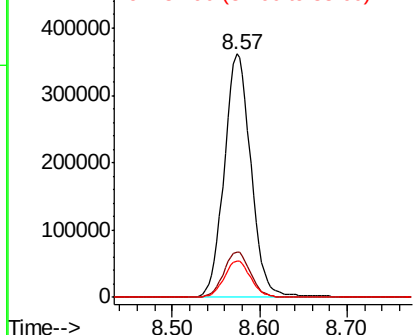
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057000.D
 Acq: 31 Jul 2019 9:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0731WBL01

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	38.0
88	14.9	0.0	30.0

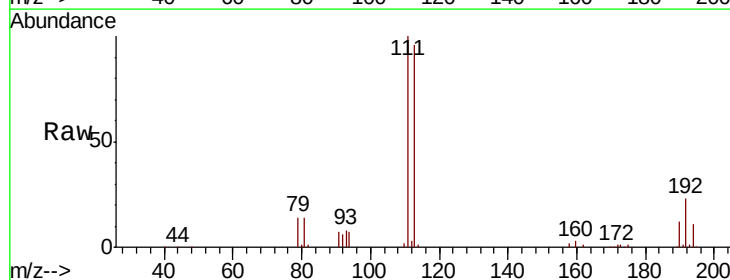


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

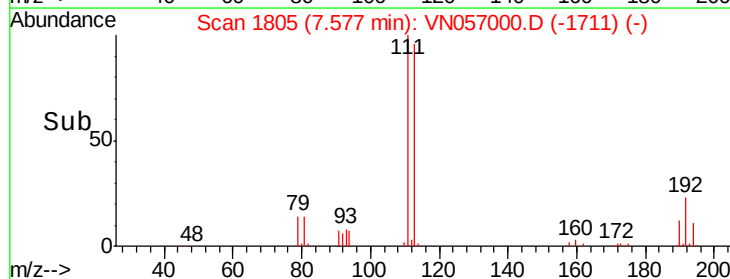
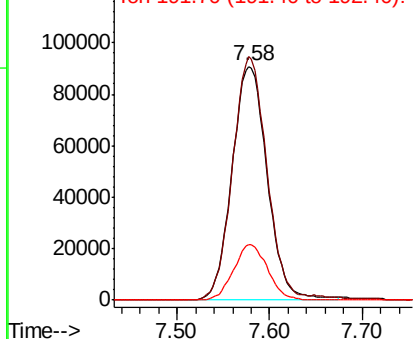


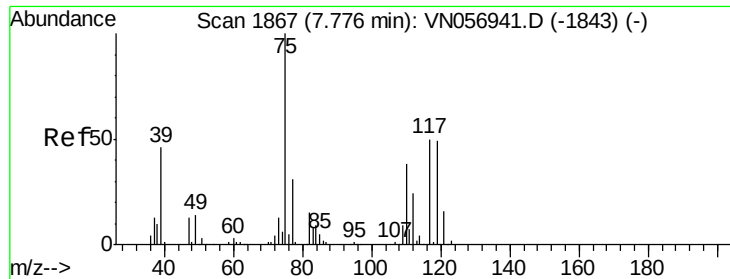
#35
 Dibromofluoromethane
 Concen: 48.832 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057000.D
 Acq: 31 Jul 2019 9:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.0	123.0
192	23.1	18.4	27.6



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: 5.004 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

Instrument :

MSVOA_N

ClientSampleId :

VN0731WBL01

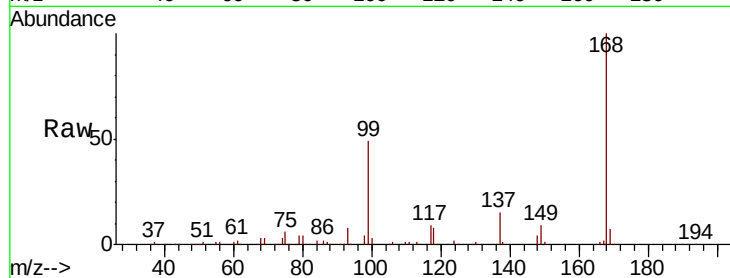
Tot Ion: 75 Resp: 33748

Ion Ratio Lower Upper

75 100

110 7.4 18.6 55.8#

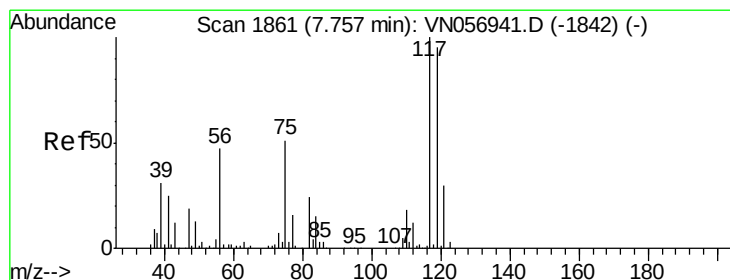
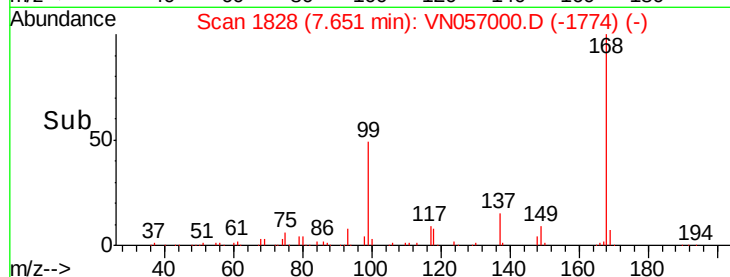
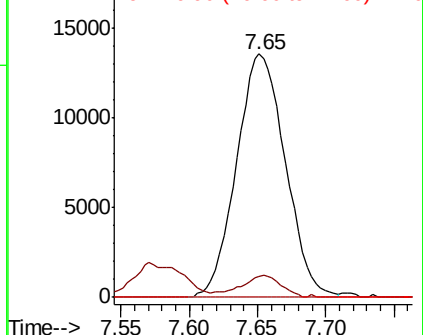
77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-1843) (-)

Ion 109.90 (109.60 to 110.60): VN056941.D (-1843) (-)

Ion 76.90 (76.60 to 77.60): VN056941.D (-1843) (-)



#38

Carbon Tetrachloride

Concen: 7.094 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

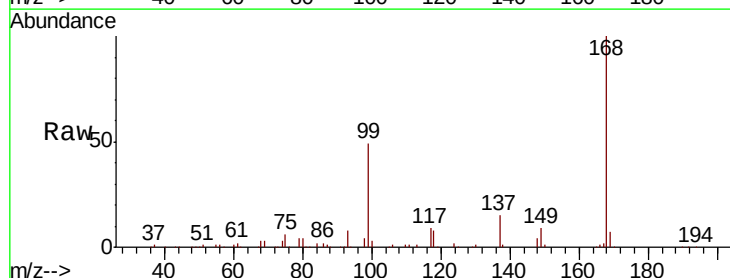
Tgt Ion: 117 Resp: 45259

Ion Ratio Lower Upper

117 100

119 5.0 75.3 112.9#

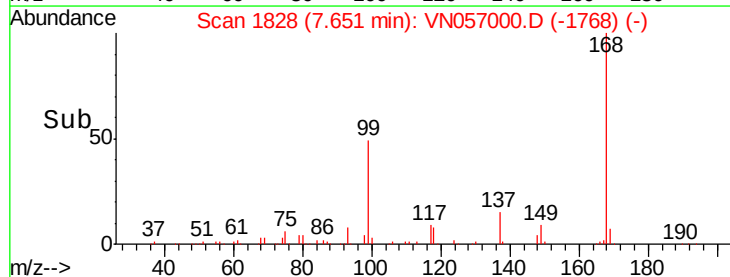
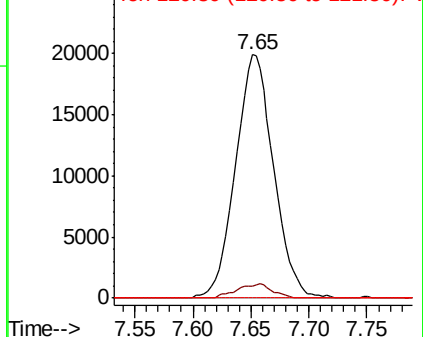
121 0.0 24.2 36.4#

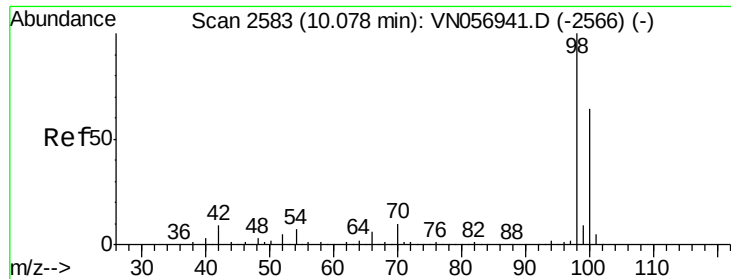


Abundance Ion 116.80 (116.50 to 117.50): VN056941.D (-1842) (-)

Ion 118.80 (118.50 to 119.50): VN056941.D (-1842) (-)

Ion 120.80 (120.50 to 121.50): VN056941.D (-1842) (-)

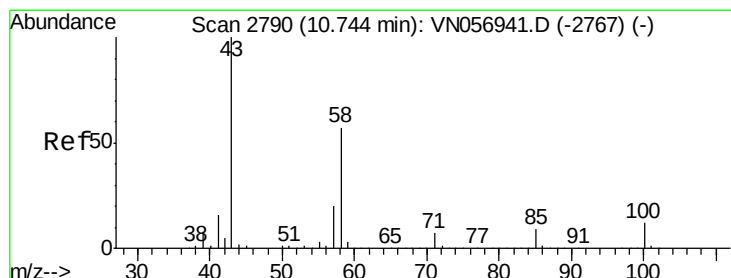
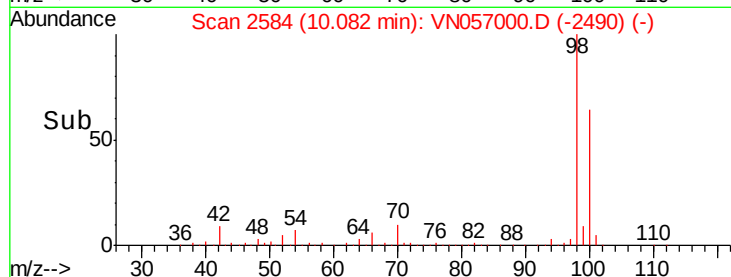
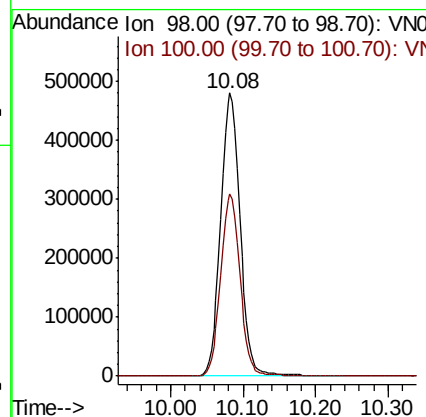
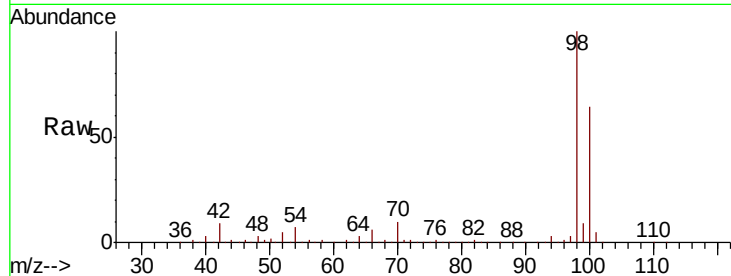




#50
Toluene-d8
Concen: 47.834 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN057000.D
Acq: 31 Jul 2019 9:28

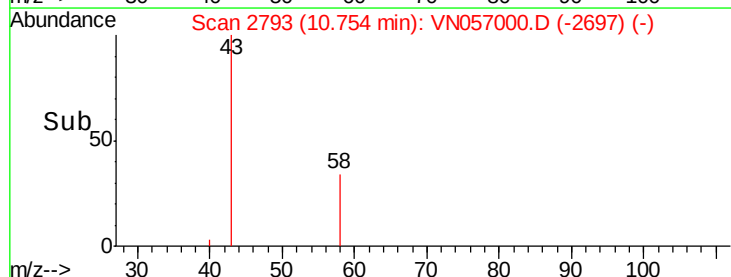
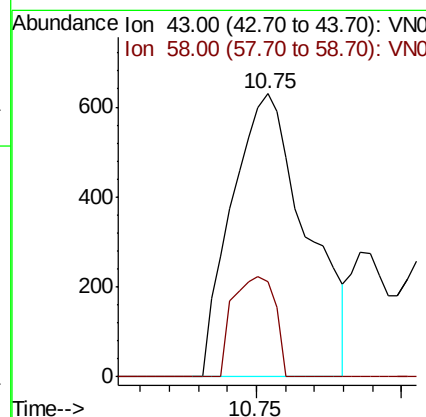
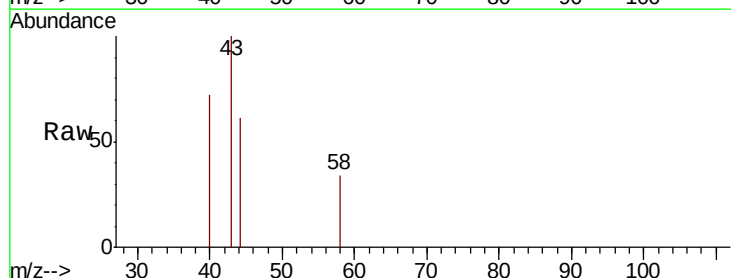
Instrument :
MSVOA_N
ClientSampleId :
VN0731WBL01

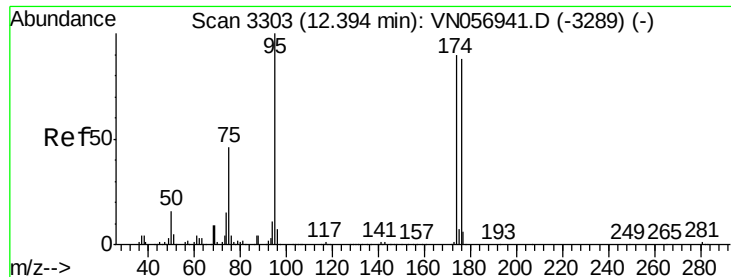
Tot Ion: 98 Resp: 895057
Ion Ratio Lower Upper
98 100
100 64.1 51.3 76.9



#59
2-Hexanone
Concen: 2.773 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN057000.D
Acq: 31 Jul 2019 9:28

Tgt Ion: 43 Resp: 1126
Ion Ratio Lower Upper
43 100
58 19.9 28.5 85.5#

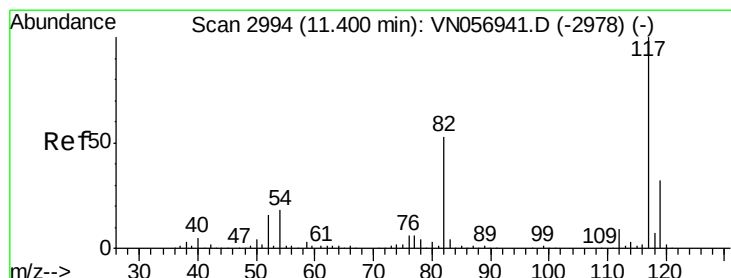
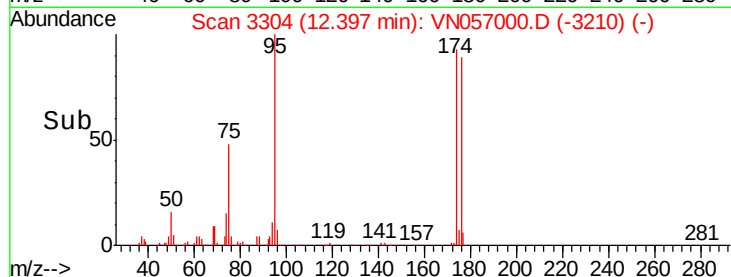
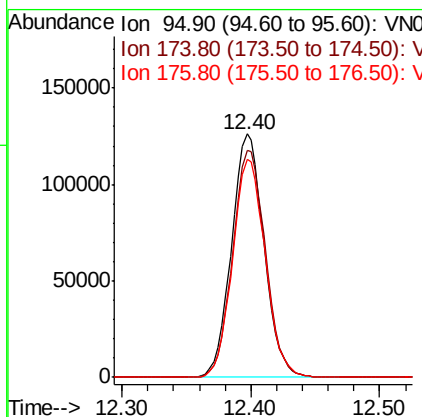
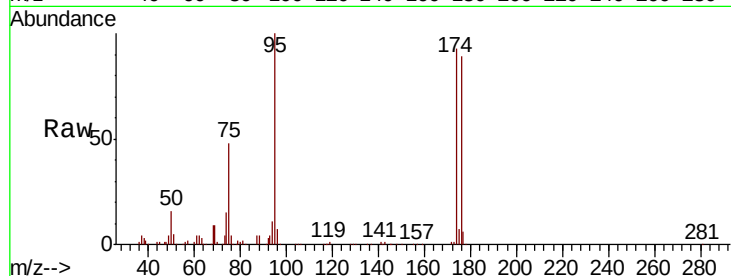




#62
4-Bromofluorobenzene
Concen: 36.098 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057000.D
Acq: 31 Jul 2019 9:28

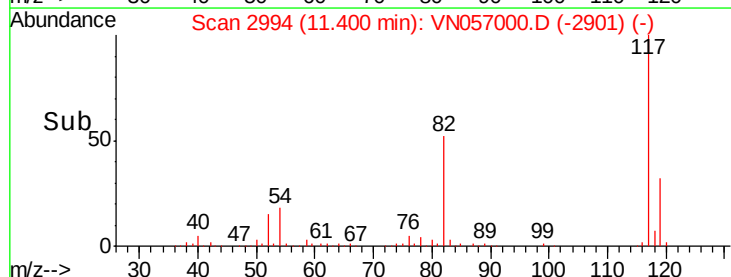
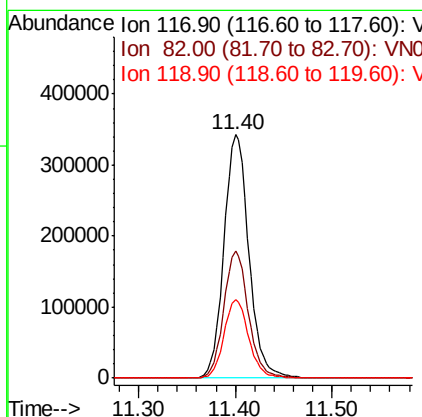
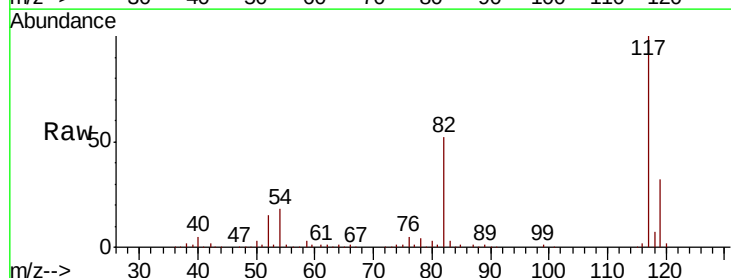
Instrument :
MSVOA_N
ClientSampleId :
VN0731WBL01

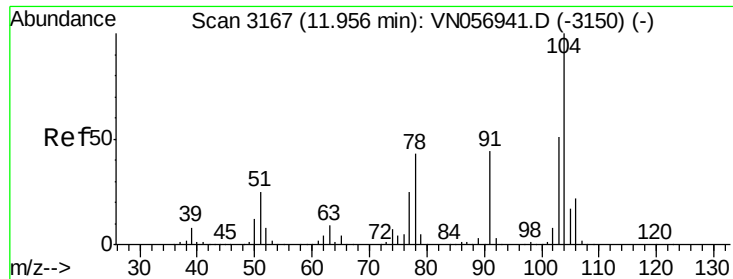
Tot Ion: 95 Resp: 219891
Ion Ratio Lower Upper
95 100
174 94.5 0.0 182.2
176 90.5 0.0 179.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057000.D
Acq: 31 Jul 2019 9:28

Tgt Ion: 117 Resp: 612989
Ion Ratio Lower Upper
117 100
82 52.1 42.2 63.4
119 32.0 25.8 38.6

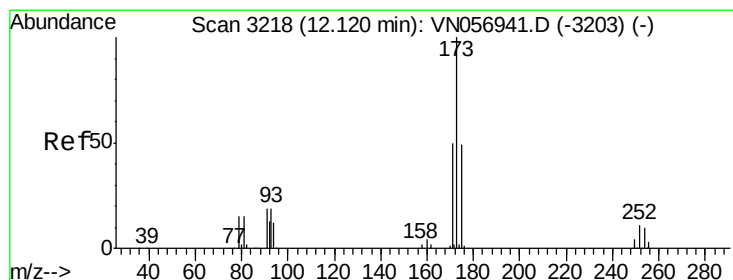
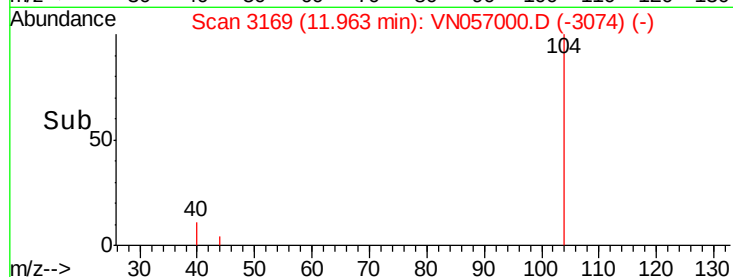
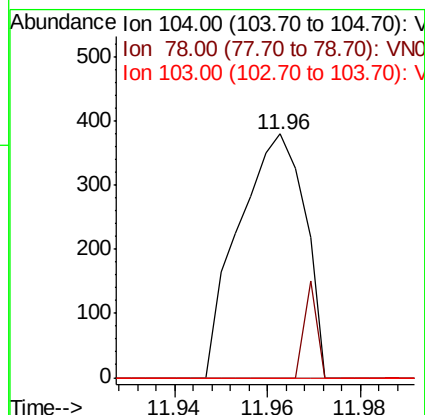
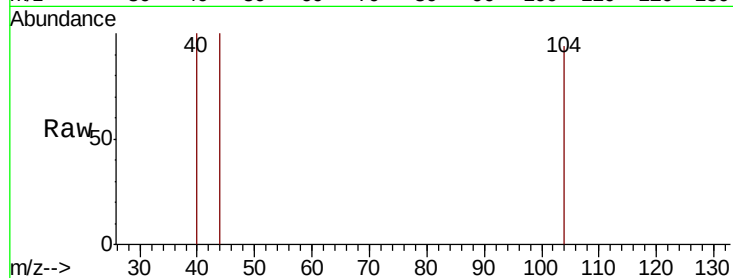




#70
Stvrene
Concen: 1.893 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.01 min
Lab File: VN057000.D
Acq: 31 Jul 2019 9:28

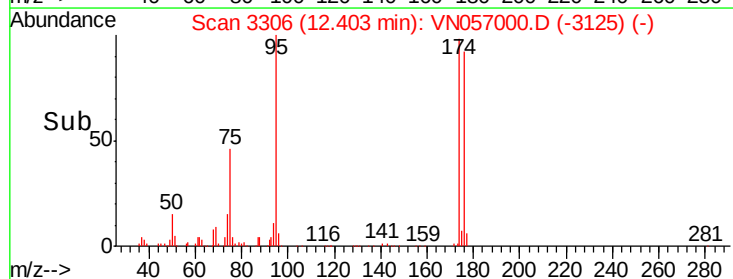
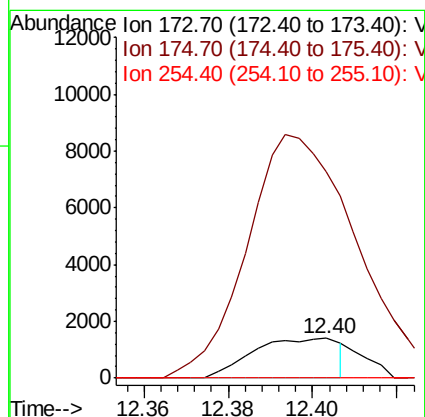
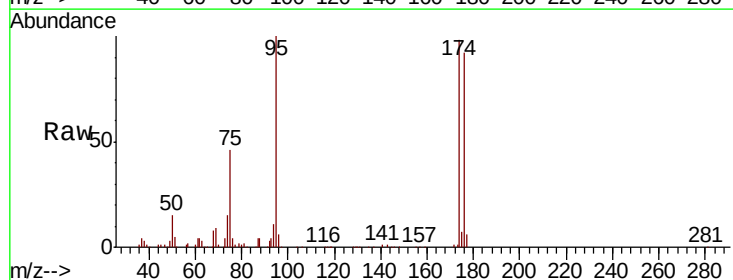
Instrument :
MSVOA_N
ClientSampleId :
VN0731WBL01

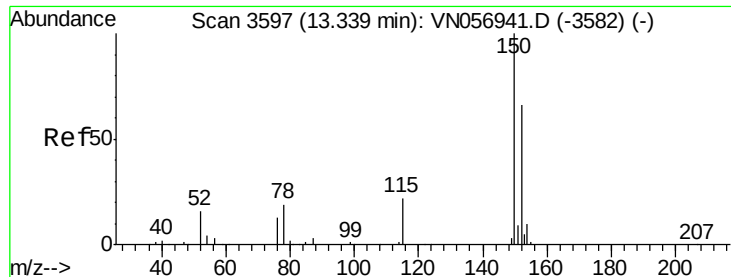
Tot Ion:104 Resp: 375
Ion Ratio Lower Upper
104 100
78 7.7 38.1 57.1#
103 0.0 44.3 66.5#



#71
Bromoform
Concen: 0.611 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN057000.D
Acq: 31 Jul 2019 9:28

Tgt Ion:173 Resp: 2006
Ion Ratio Lower Upper
173 100
175 610.7 24.1 72.4#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

Instrument :

MSVOA_N

ClientSampleId :

VN0731WBL01

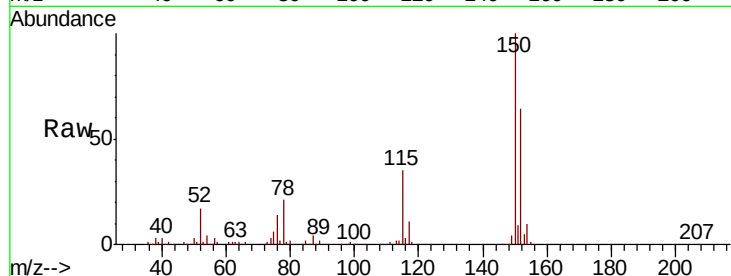
Tot Ion:152 Resp: 155115

Ion Ratio Lower Upper

152 100

115 55.6 28.2 84.6

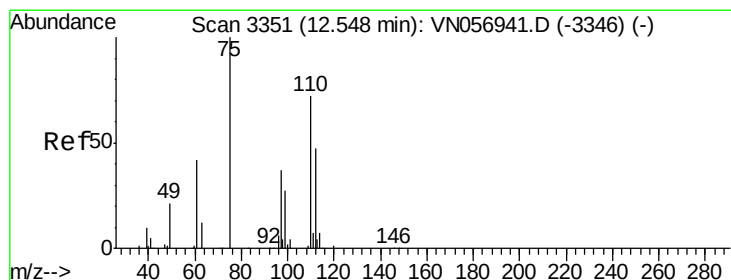
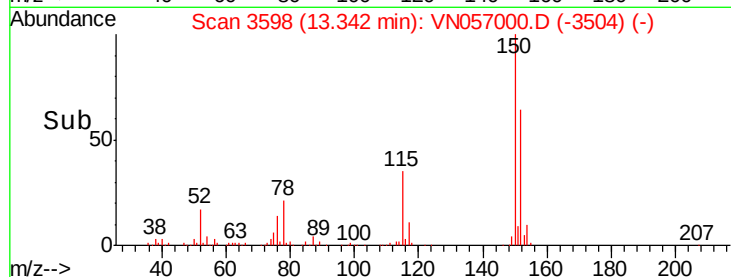
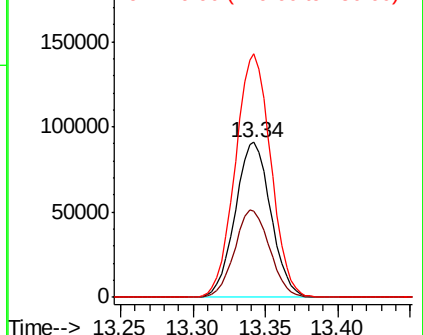
150 157.0 0.0 349.4



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: 32.508 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057000.D

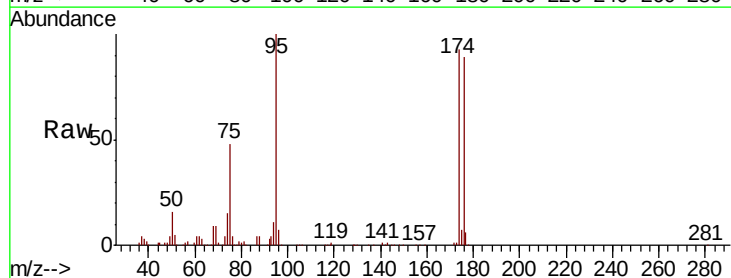
Acq: 31 Jul 2019 9:28

Tgt Ion: 75 Resp: 102404

Ion Ratio Lower Upper

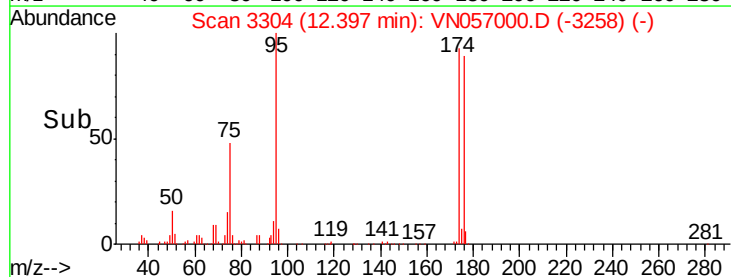
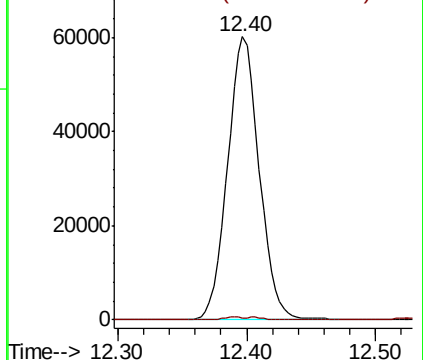
75 100

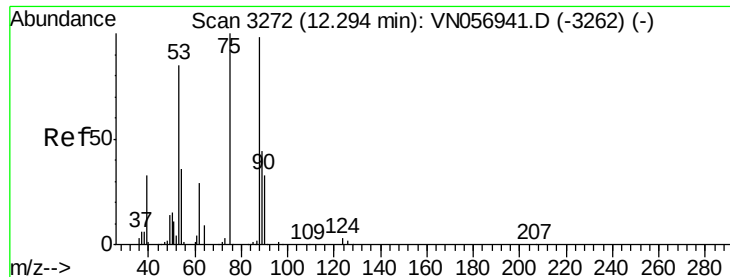
77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 104.447 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

Instrument :

MSVOA_N

ClientSampled :

VN0731WBL01

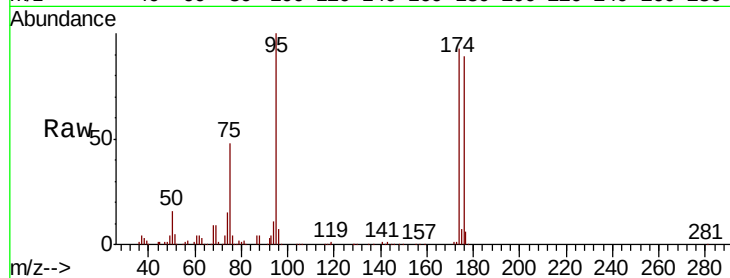
Tot Ion: 75 Resp: 102404

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

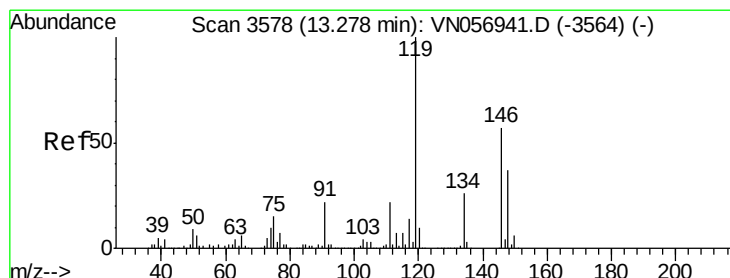
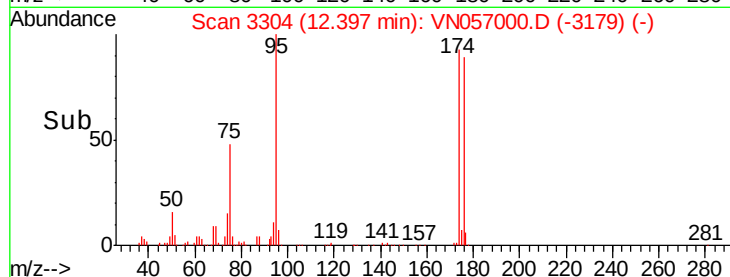
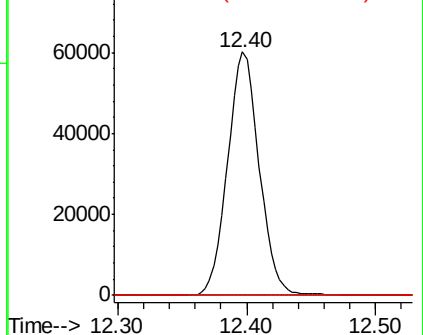
89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-3262) (-)

Ion 53.00 (52.70 to 53.70): VN056941.D (-3262) (-)

Ion 88.90 (88.60 to 89.60): VN056941.D (-3262) (-)



#87

1,3-Dichlorobenzene

Concen: 0.219 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. 0.00 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

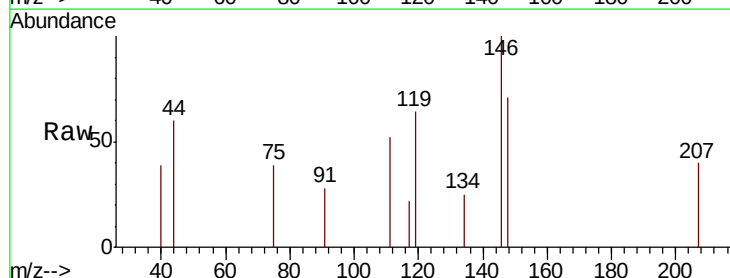
Tgt Ion: 146 Resp: 1168

Ion Ratio Lower Upper

146 100

111 55.2 18.6 55.8

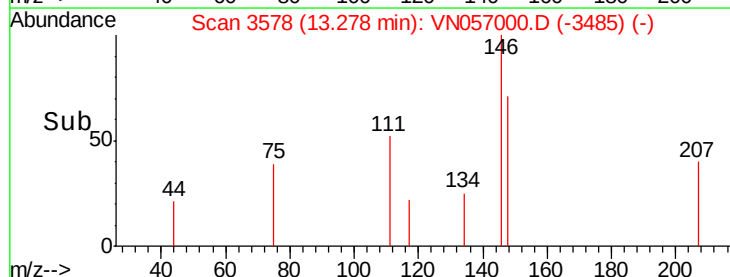
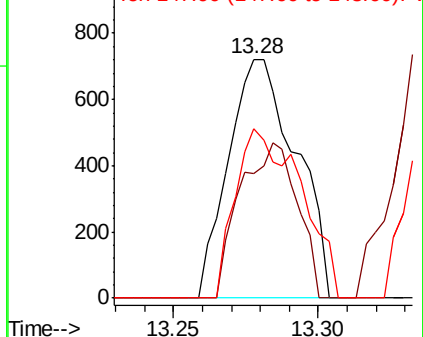
148 68.7 32.2 96.6

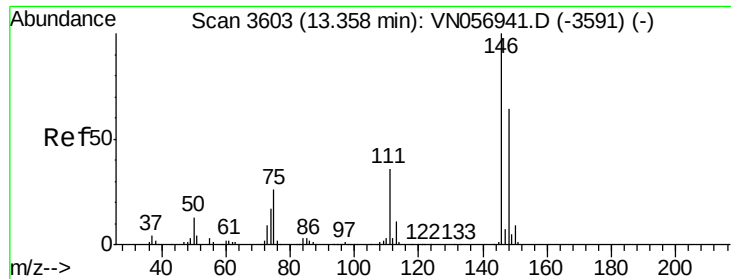


Abundance Ion 145.90 (145.60 to 146.60): VN056941.D (-3564) (-)

Ion 110.90 (110.60 to 111.60): VN056941.D (-3564) (-)

Ion 147.90 (147.60 to 148.60): VN056941.D (-3564) (-)

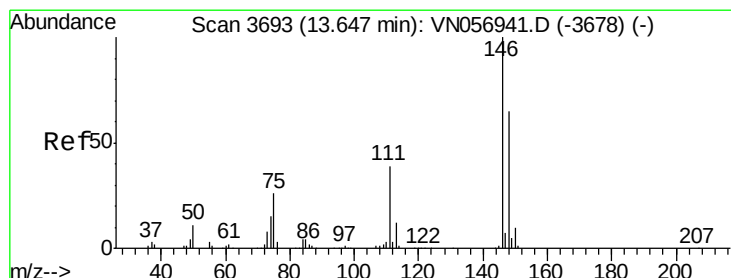
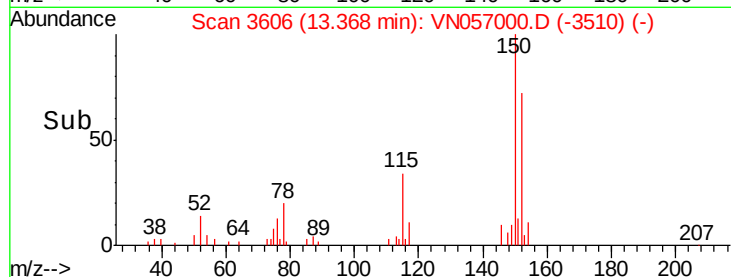
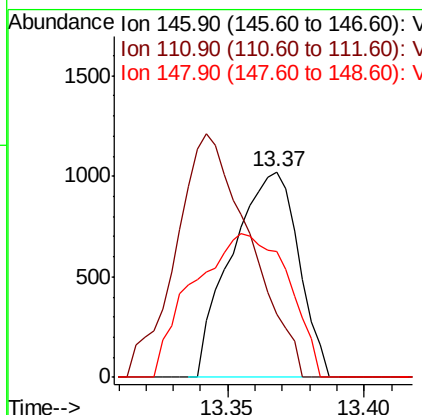
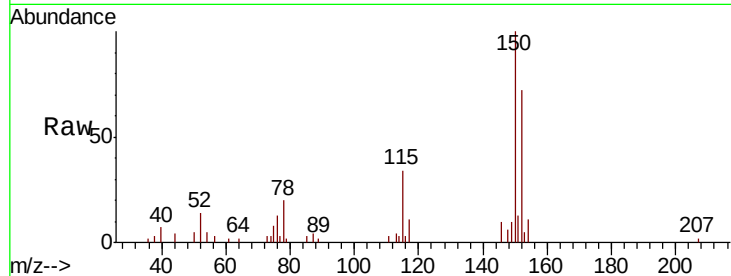




#88
 1,4-Dichlorobenzene
 Concen: 0.339 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.01 min
 Lab File: VN057000.D
 Acq: 31 Jul 2019 9:28

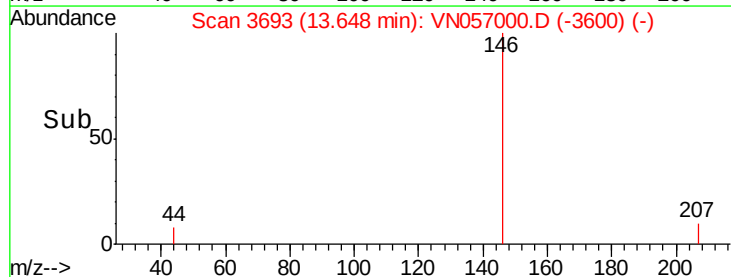
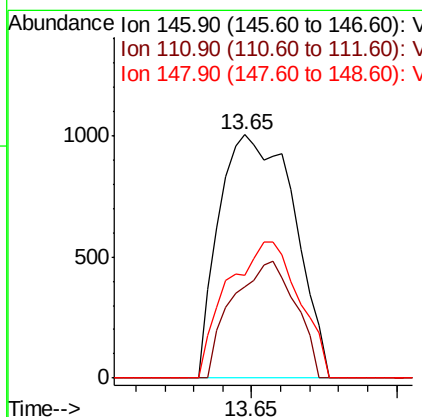
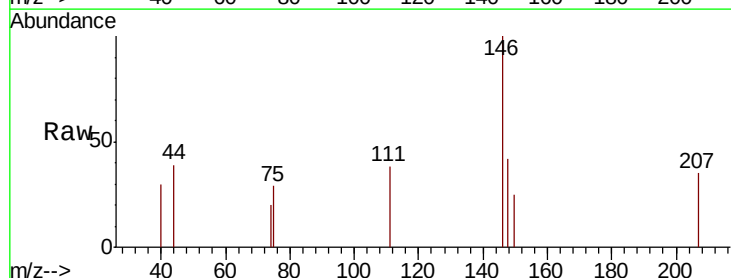
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0731WBL01

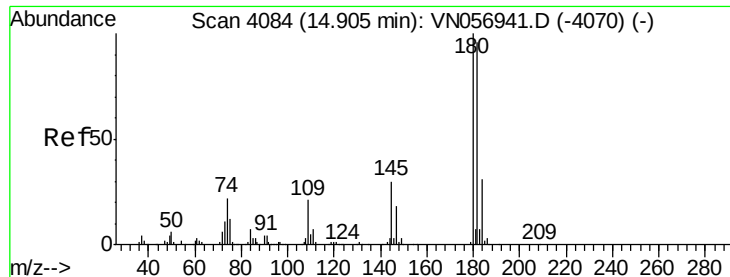
Tot Ion:146 Resp: 1735
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.4 55.2#
 148 0.0 32.3 96.9#



#91
 1,2-Dichlorobenzene
 Concen: 0.345 ug/l
 RT: 13.65 min Scan# 3693
 Delta R.T. 0.00 min
 Lab File: VN057000.D
 Acq: 31 Jul 2019 9:28

Tgt Ion:146 Resp: 1805
 Ion Ratio Lower Upper
 146 100
 111 40.3 19.4 58.4
 148 53.3 32.2 96.6

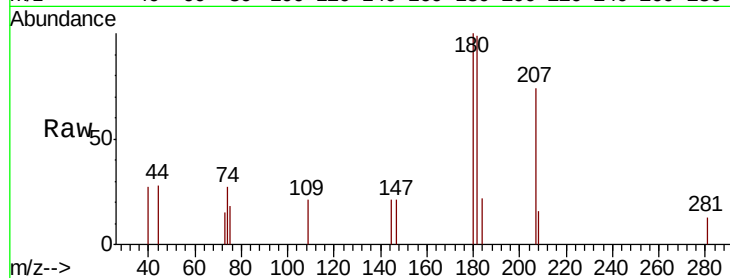




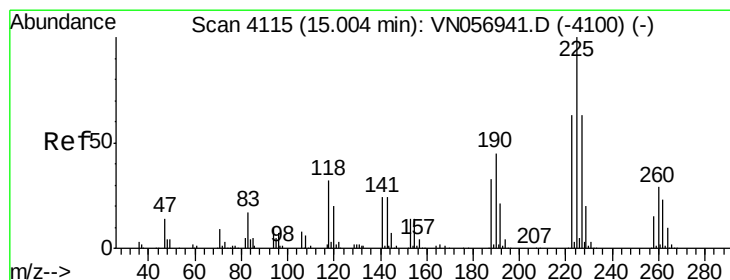
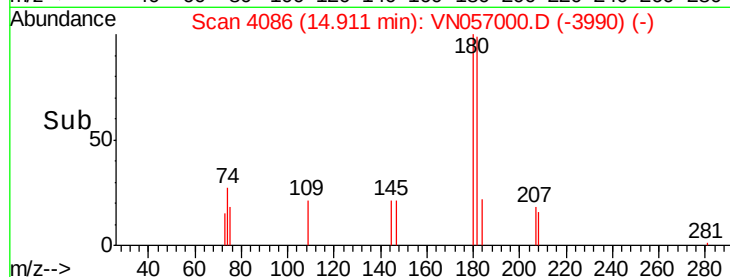
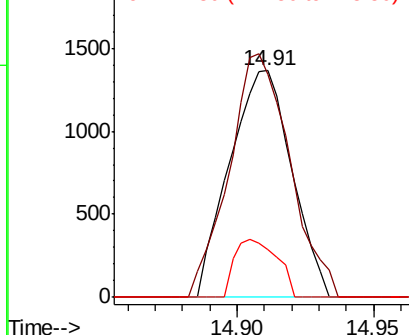
#93
 1,2,4-Trichlorobenzene
 Concen: 3.464 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN057000.D
 Acq: 31 Jul 2019 9:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0731WBL01

Tot Ion:180 Resp: 2150
 Ion Ratio Lower Upper
 180 100
 182 105.3 47.6 142.8
 145 17.6 14.2 42.8

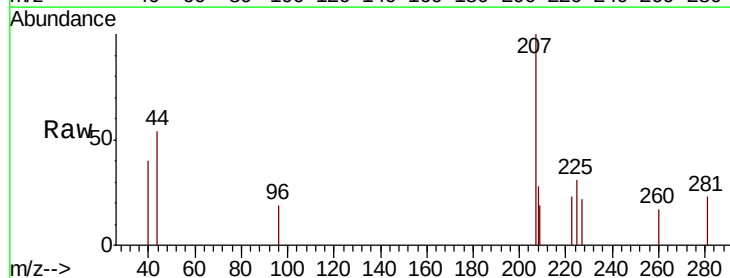


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

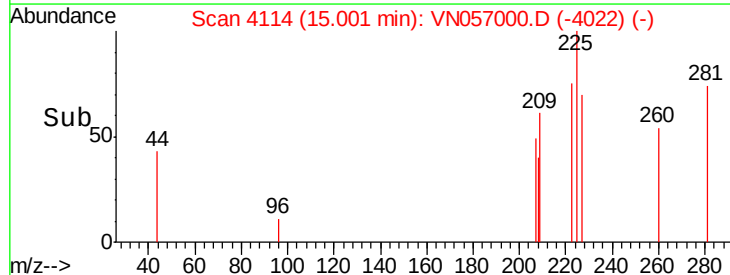
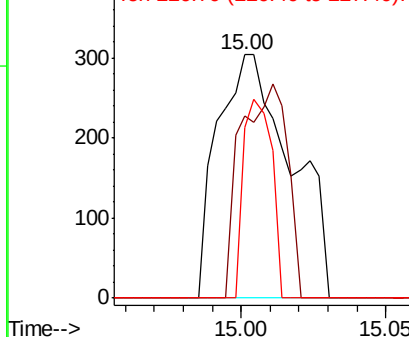


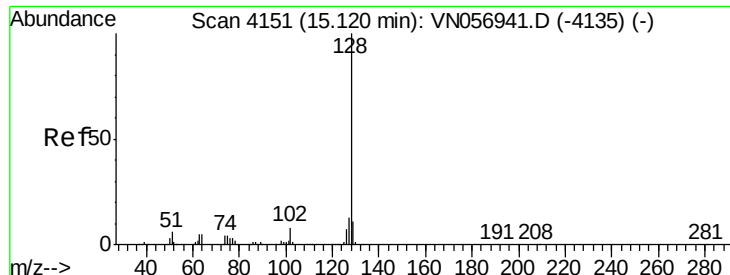
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4114
 Delta R.T. -0.00 min
 Lab File: VN057000.D
 Acq: 31 Jul 2019 9:28

Tgt Ion:225 Resp: 537
 Ion Ratio Lower Upper
 225 100
 223 55.7 30.8 92.4
 227 31.5 31.1 93.5



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: 4.217 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. 0.00 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

Instrument :

MSVOA_N

ClientSampled :

VN0731WBL01

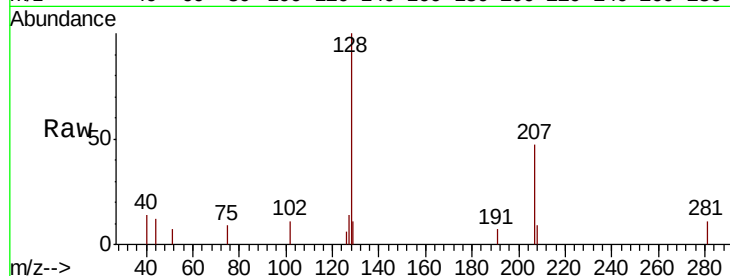
Tot Ion:128 Resp: 4465

Ion Ratio Lower Upper

128 100

127 11.7 10.0 15.0

129 10.2 8.7 13.1

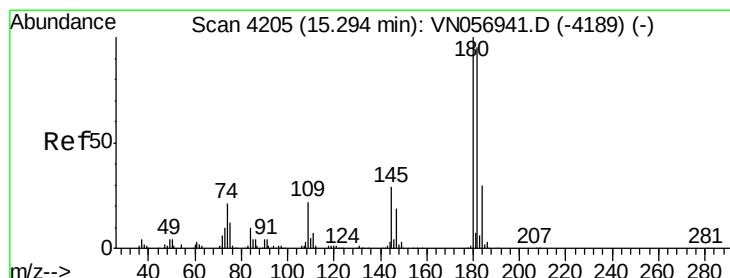
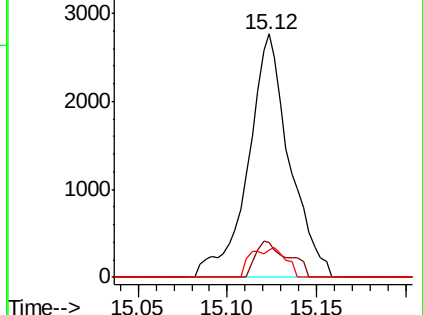
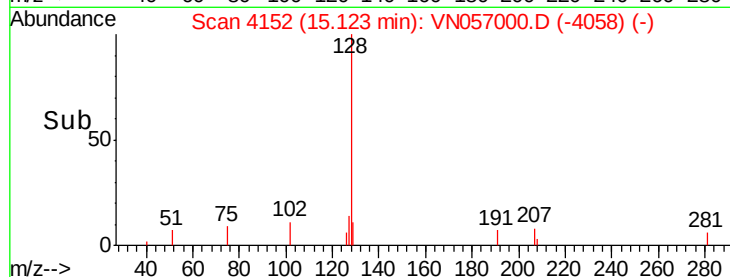


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.12



#96

1,2,3-Trichlorobenzene

Concen: 3.130 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057000.D

Acq: 31 Jul 2019 9:28

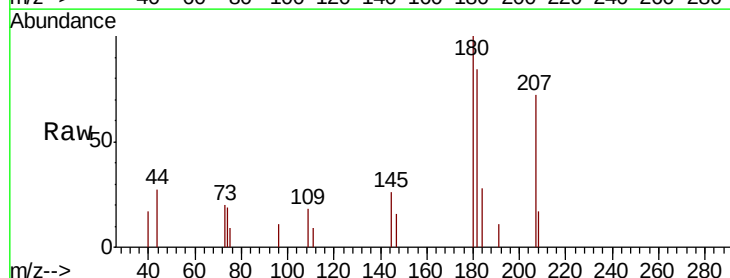
Tgt Ion:180 Resp: 3077

Ion Ratio Lower Upper

180 100

182 91.9 48.0 144.2

145 27.9 15.0 45.0



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

15.30

