

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056202.D
 Acq On : 11 Jun 2019 6:01
 Operator : JC/SP
 Sample : K3255-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 09:03:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	303334	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	451794	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	444412	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138277	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	154276	51.22	ug/l	0.00
Spiked Amount						
			Recovery	=	102.44%	
35) Dibromofluoromethane	7.59	113	143329	51.71	ug/l	0.00
Spiked Amount						
			Recovery	=	103.42%	
50) Toluene-d8	10.09	98	563658	52.84	ug/l	0.00
Spiked Amount						
			Recovery	=	105.68%	
62) 4-Bromofluorobenzene	12.40	95	177190	48.85	ug/l	0.00
Spiked Amount						
			Recovery	=	97.70%	

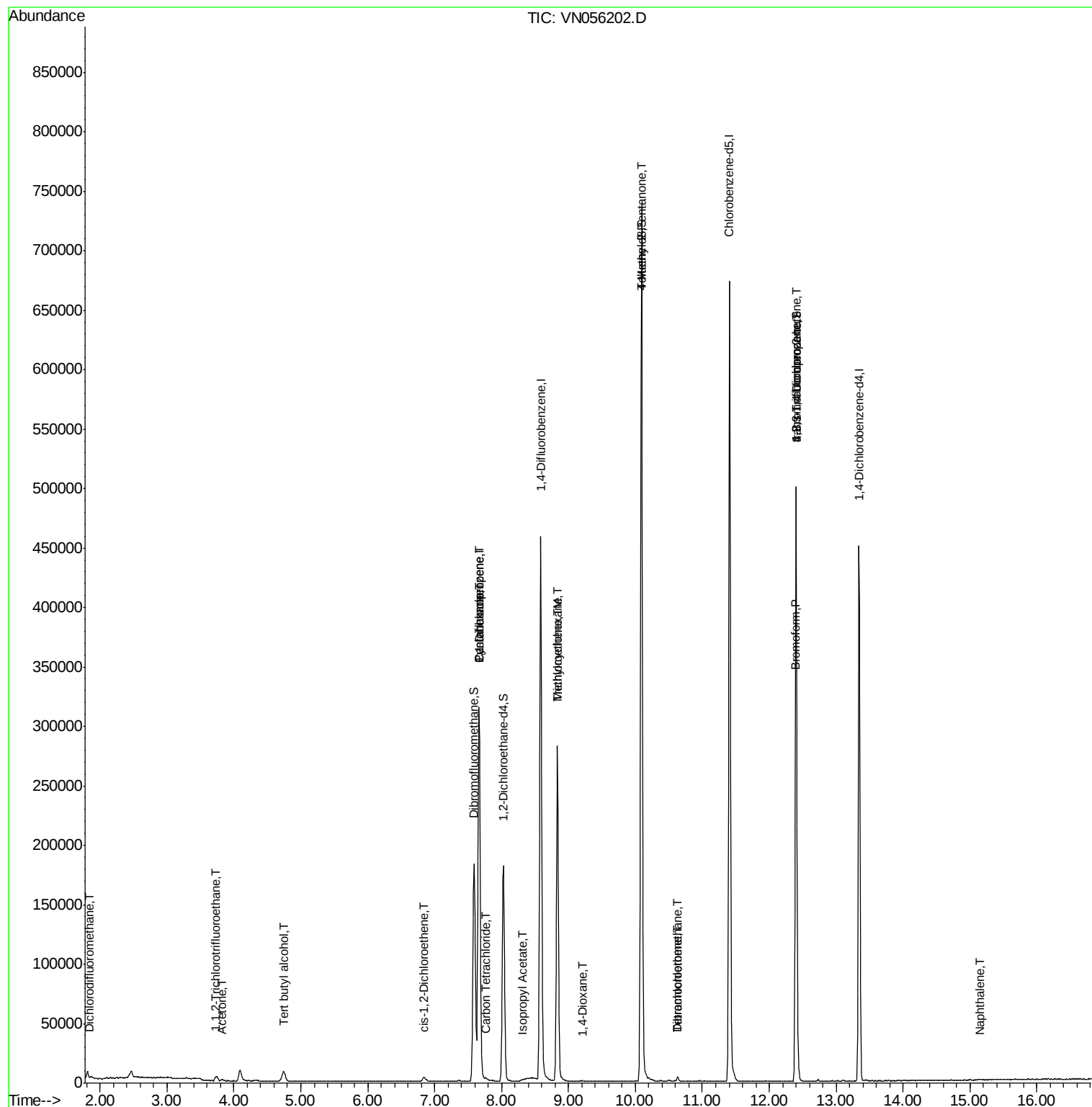
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	311	0.447	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	3.74	101	2754	1.077	ug/l #	92
11) Tert butyl alcohol	4.74	59	8240	15.721	ug/l #	74
16) Acetone	3.82	43	2711	1.882	ug/l #	88
27) cis-1,2-Dichloroethene	6.83	96	886	0.276	ug/l	90
31) Cyclohexane	7.66	56	4280	0.896	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17391	4.477	ug/l #	43
38) Carbon Tetrachloride	7.77	117	1265	0.353	ug/l #	67
39) Methylcyclohexane	8.84	83	1162	0.240	ug/l #	1
43) Isopropyl Acetate	8.31	43	1142	0.204	ug/l #	53
44) Trichloroethene	8.83	130	114429	33.751	ug/l	100
49) 1,4-Dioxane	9.20	88	275	4.648	ug/l #	55
51) 4-Methyl-2-Pentanone	10.09	43	2173	0.620	ug/l #	1
60) Dibromochloromethane	10.63	129	843	2.702	ug/l #	11
64) Tetrachloroethene	10.63	164	1079	0.280	ug/l #	82
71) Bromoform	12.38	173	44	2.758	ug/l #	29
73) Isopropylbenzene	12.40	105	90	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	79976	31.433	ug/l #	100
79) 2-Chlorotoluene	12.40	91	487	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	79976	104.677	ug/l #	15
95) Naphthalene	15.14	128	662	3.944	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

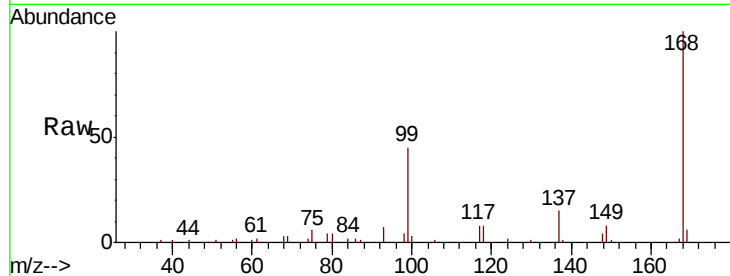
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 303334

Ion Ratio Lower Upper

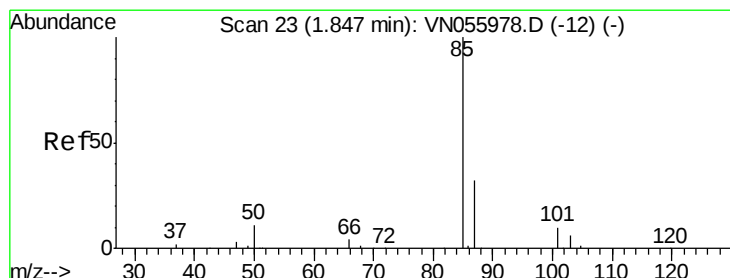
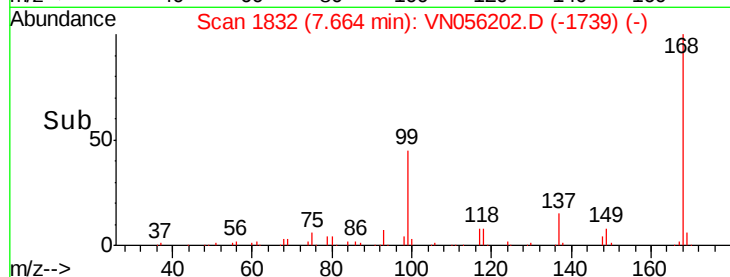
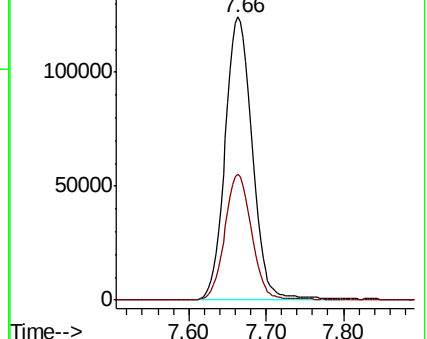
168 100

99 44.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 0.447 ug/l

RT: 1.84 min Scan# 22

Delta R.T. -0.00 min

Lab File: VN056202.D

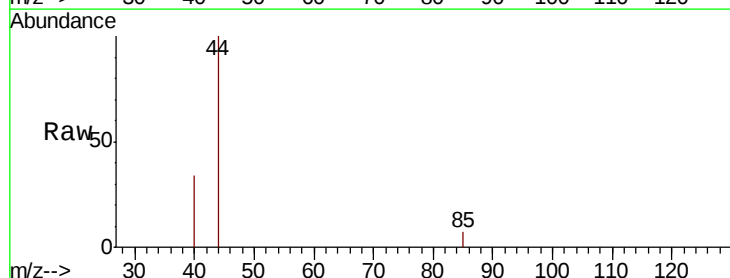
Acq: 11 Jun 2019 6:01

Tgt Ion: 85 Resp: 311

Ion Ratio Lower Upper

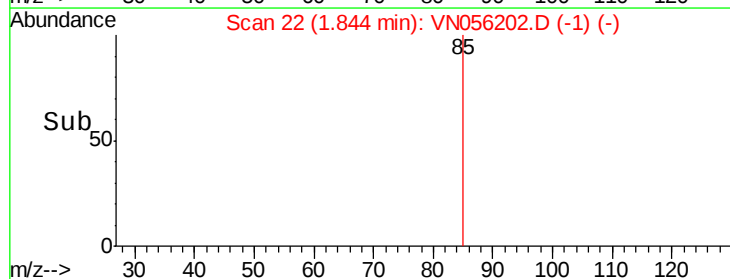
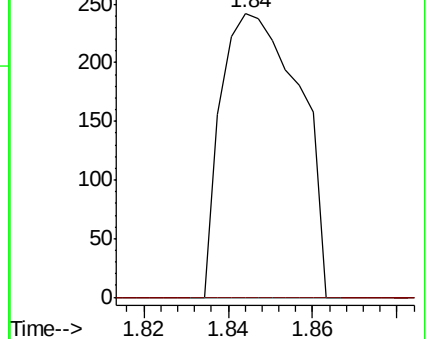
85 100

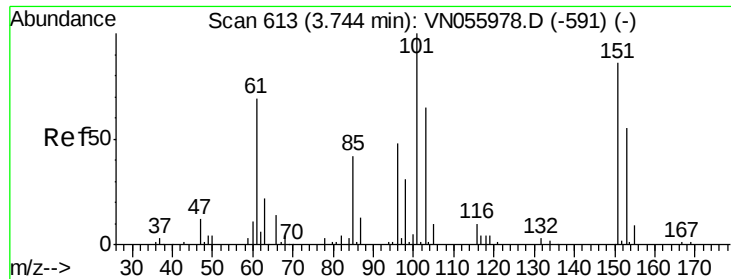
87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.077 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

Instrument :

MSVOA_N

ClientSampled :

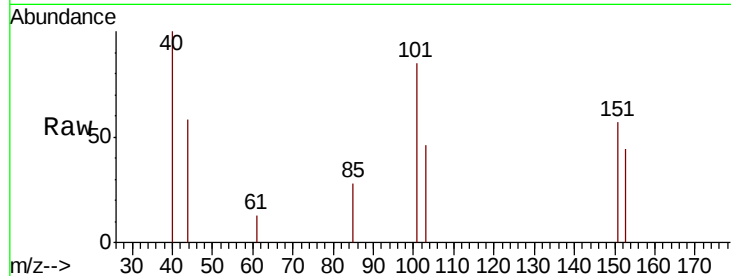
Tot Ion:101 Resp: 2754

Ion Ratio Lower Upper

101 100

85 25.6 33.4 50.2#

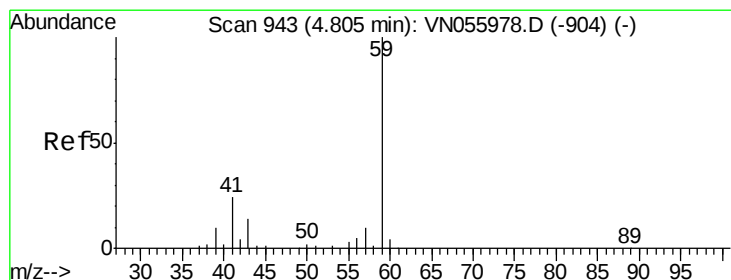
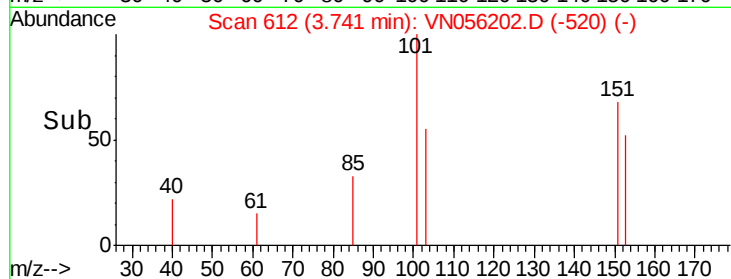
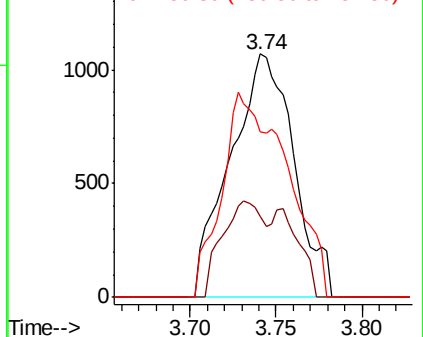
151 86.7 69.4 104.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 15.721 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN056202.D

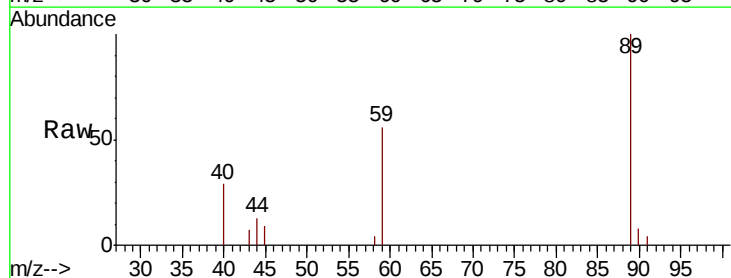
Acq: 11 Jun 2019 6:01

Tgt Ion: 59 Resp: 8240

Ion Ratio Lower Upper

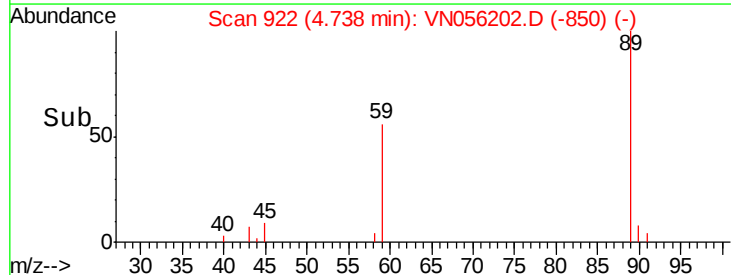
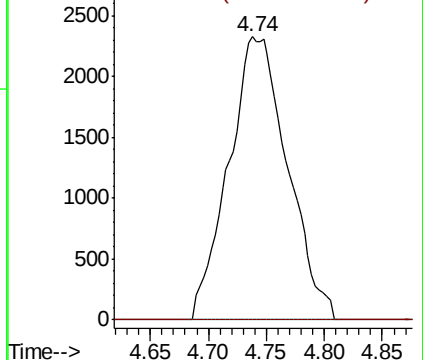
59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 1.882 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

Instrument :

MSVOA_N

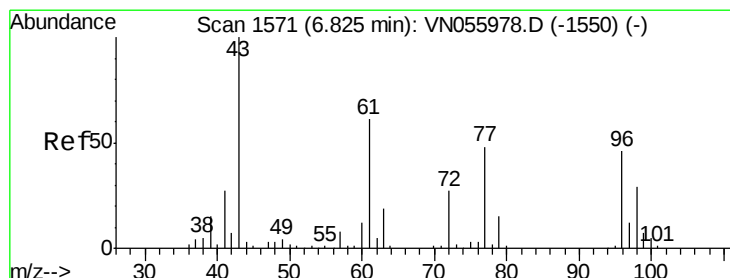
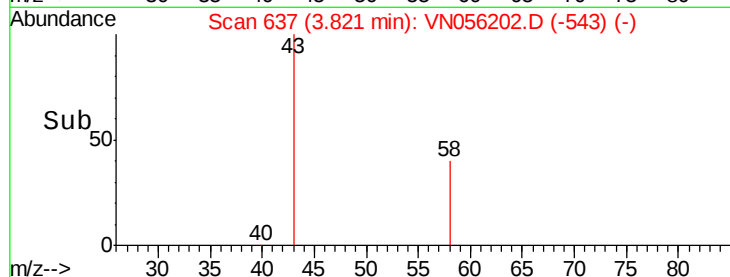
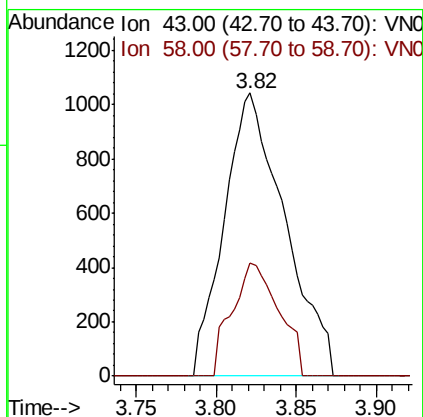
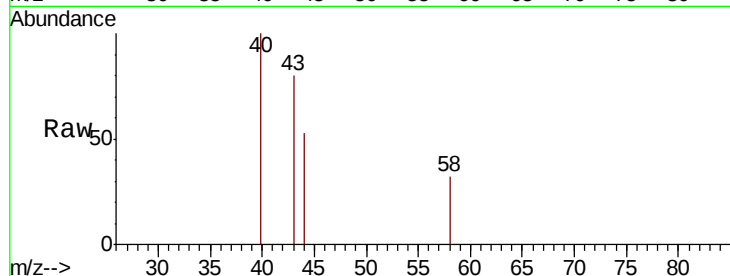
ClientSampled :

Tot Ion: 43 Resp: 2711

Ion Ratio Lower Upper

43 100

58 40.1 26.6 39.8#



#27

cis-1,2-Dichloroethene

Concen: 0.276 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

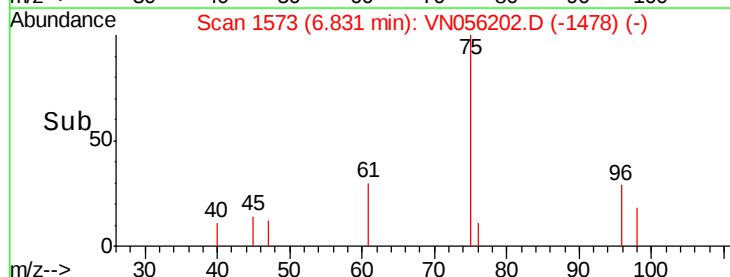
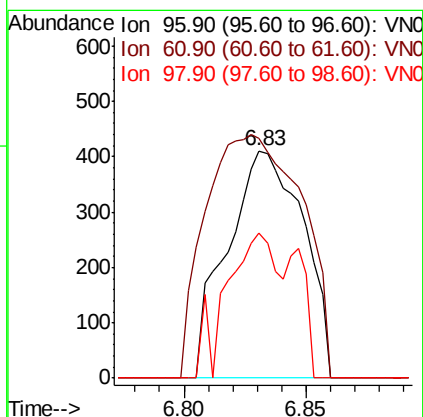
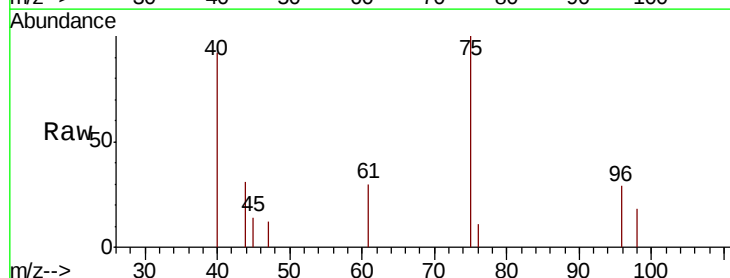
Tgt Ion: 96 Resp: 886

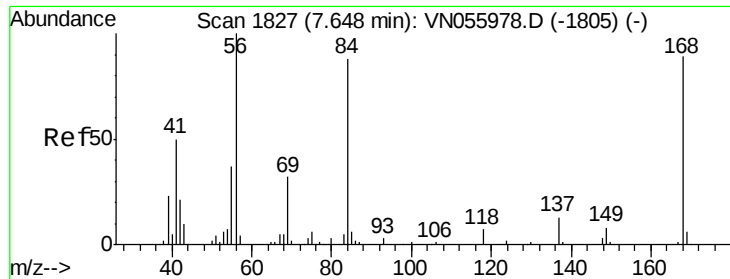
Ion Ratio Lower Upper

96 100

61 135.4 0.0 275.8

98 43.8 0.0 128.4

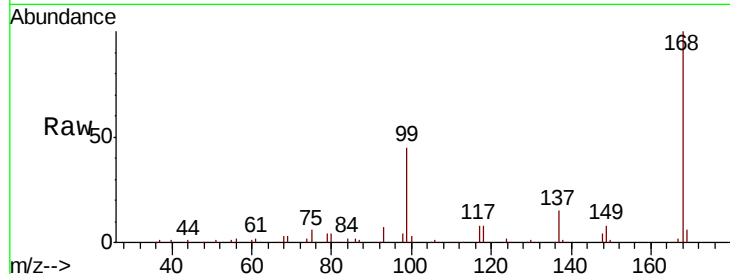




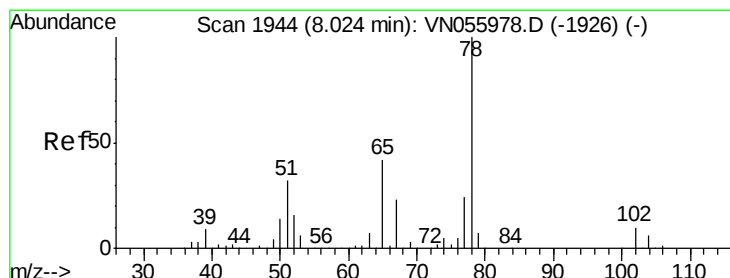
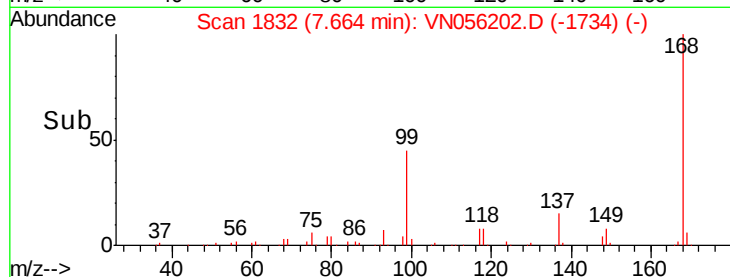
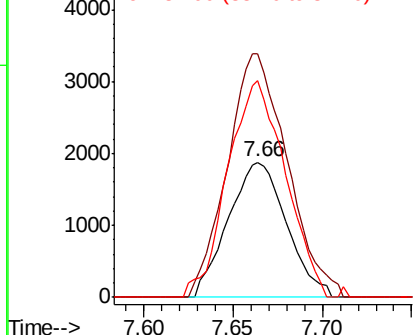
#31
Cyclohexane
Concen: 0.896 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4280
Ion Ratio Lower Upper
56 100
69 180.3 25.6 38.4#
84 160.6 67.4 101.0#

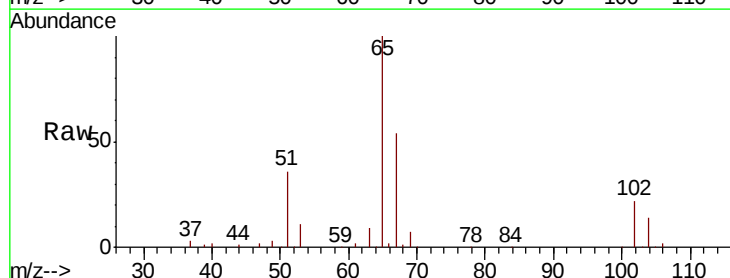


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

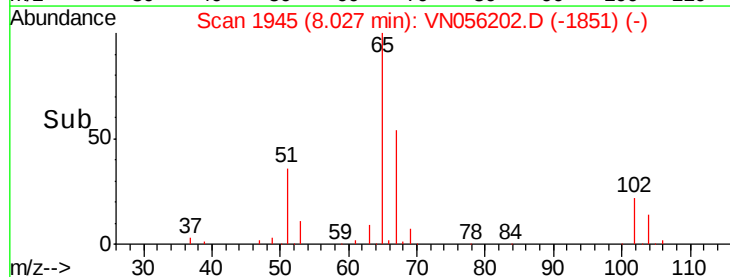
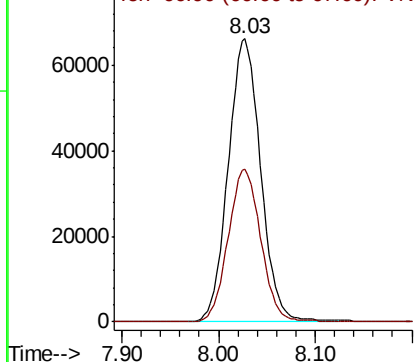


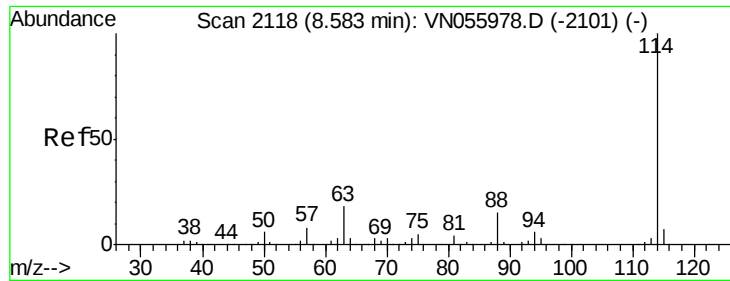
#33
1,2-Dichloroethane-d4
Concen: 51.223 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

Tgt Ion: 65 Resp: 154276
Ion Ratio Lower Upper
65 100
67 54.0 0.0 109.2



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

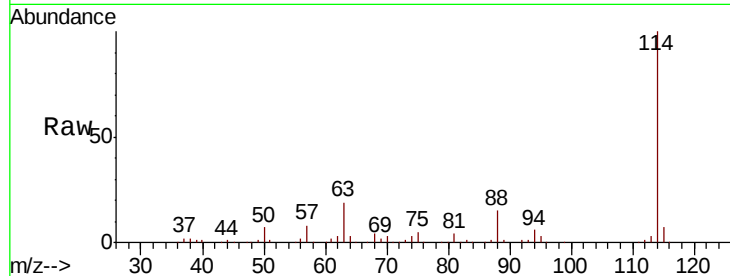




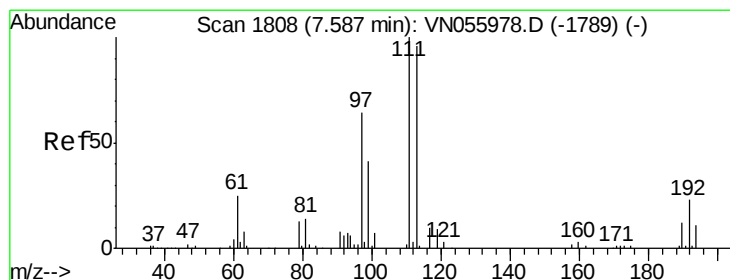
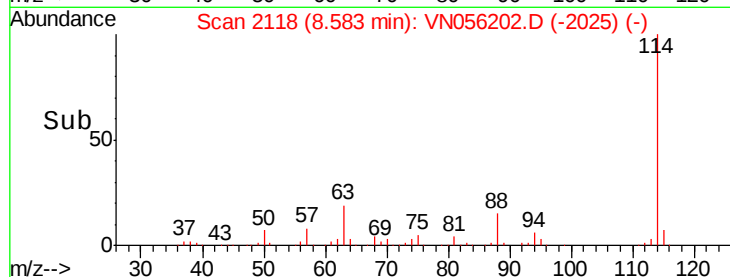
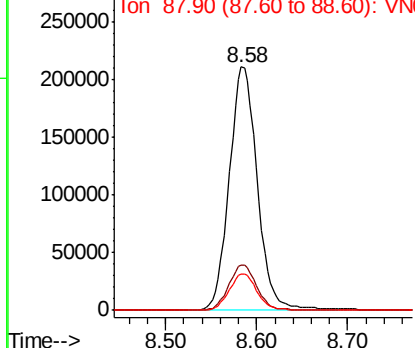
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 451794
Ion Ratio Lower Upper
114 100
63 18.7 0.0 39.2
88 15.0 0.0 31.0

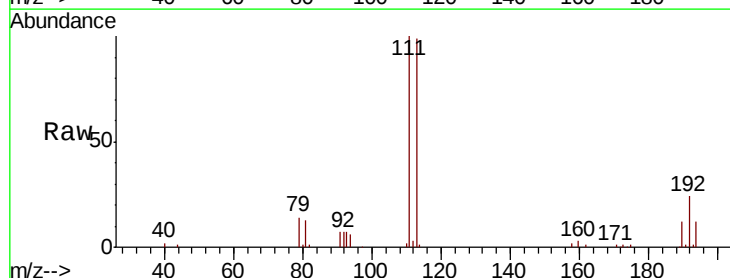


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

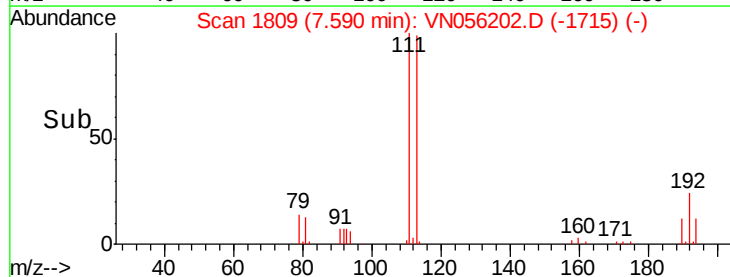
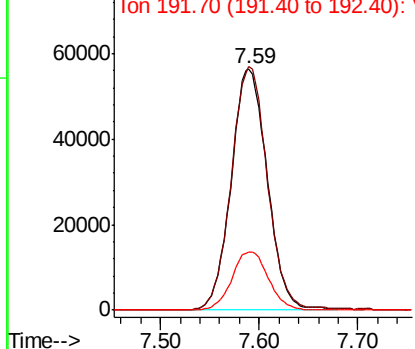


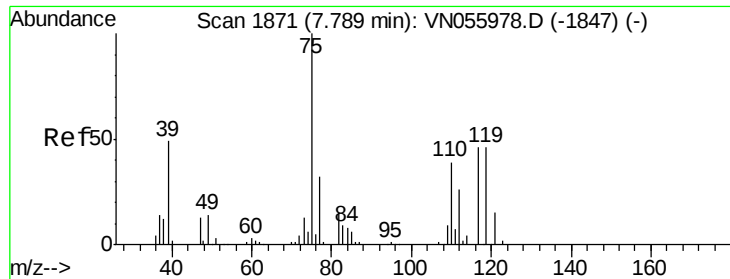
#35
Dibromofluoromethane
Concen: 51.708 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

Tgt Ion:113 Resp: 143329
Ion Ratio Lower Upper
113 100
111 101.2 81.9 122.9
192 24.5 19.5 29.3



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

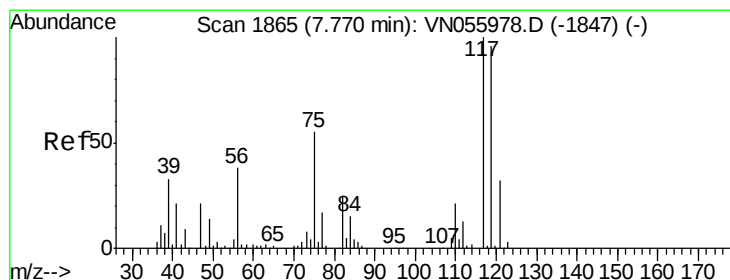
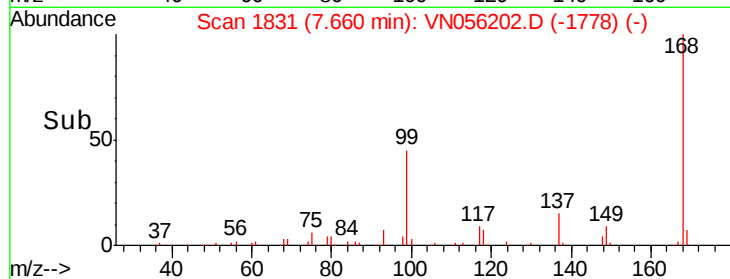
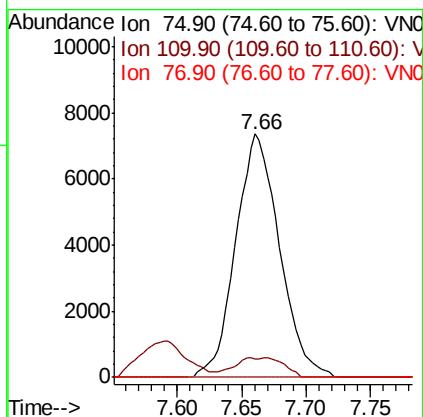
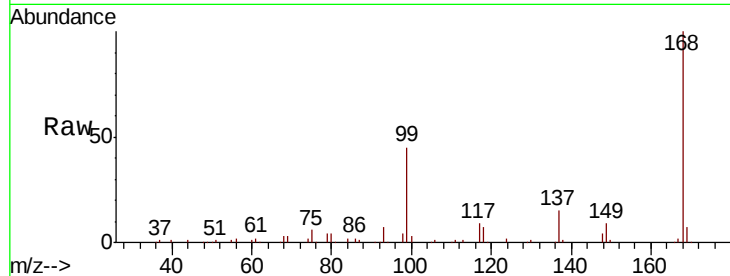




#36
 1,1-Dichloropropene
 Concen: 4.477 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056202.D
 Acq: 11 Jun 2019 6:01

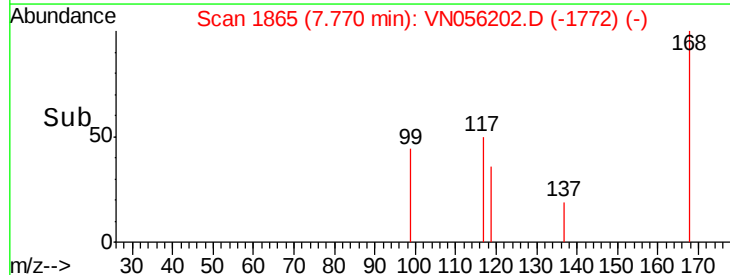
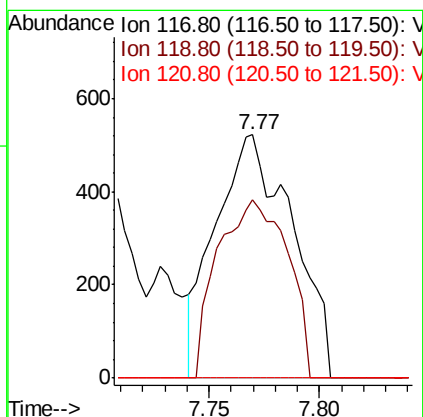
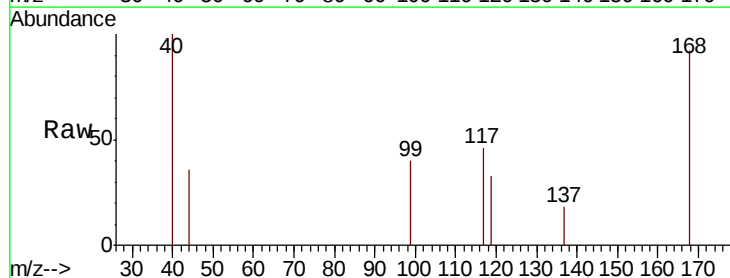
Instrument :
 MSVOA_N
 ClientSampleId :

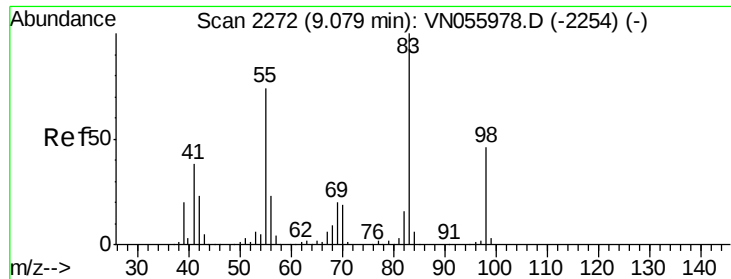
Tot Ion	75	Resp	17391
Ion Ratio	Lower	Upper	
75	100		
110	3.1	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 0.353 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. -0.00 min
 Lab File: VN056202.D
 Acq: 11 Jun 2019 6:01

Tgt Ion	117	Resp	1265
Ion Ratio	Lower	Upper	
117	100		
119	73.4	79.0	118.6#
121	0.0	24.7	37.1#

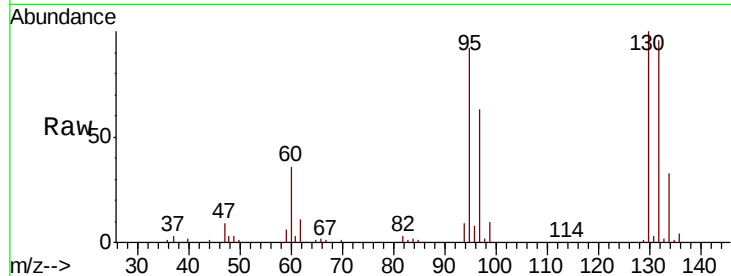




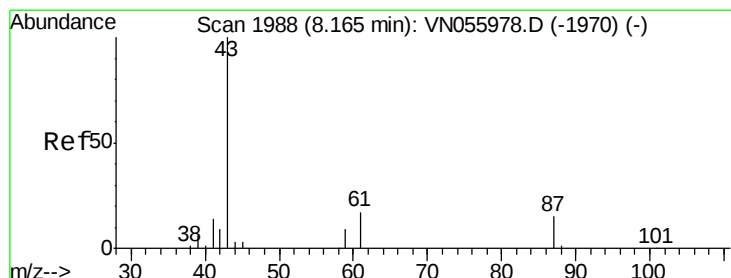
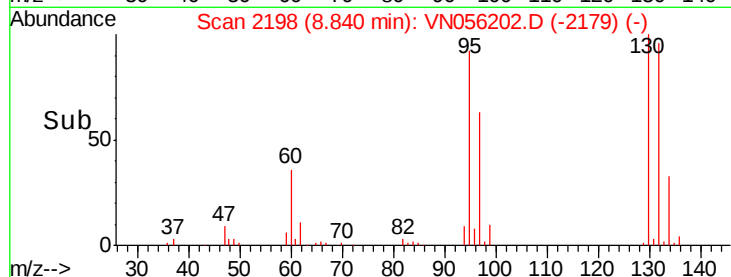
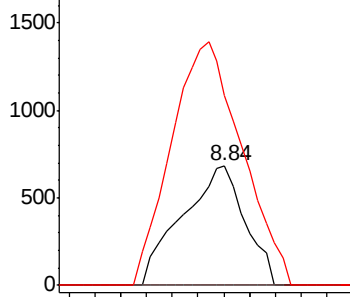
#39
Methylcyclohexane
Concen: 0.240 ug/l
RT: 8.84 min Scan# 2198
Delta R.T. -0.24 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 83 Resp: 1162
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 159.0 36.6 54.8#

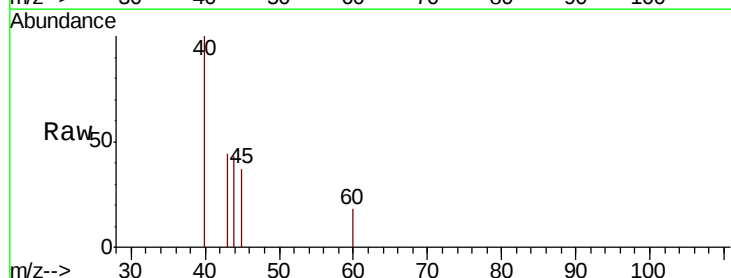


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

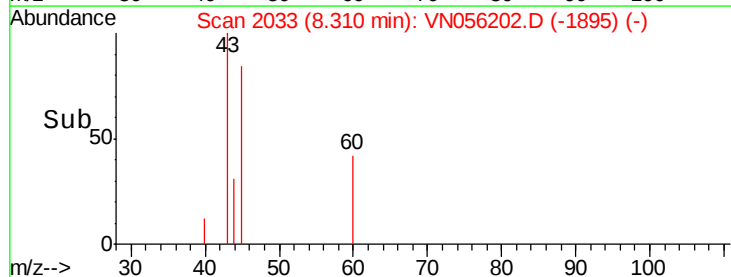
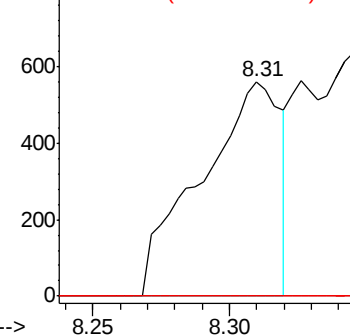


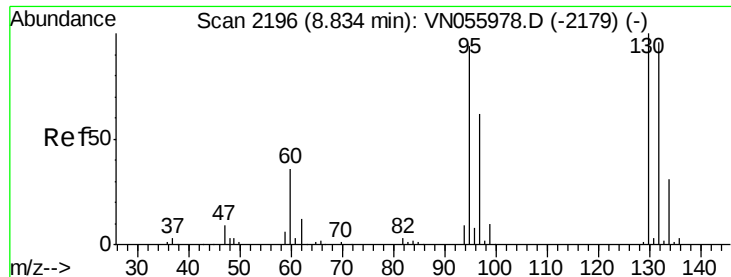
#43
Isopropyl Acetate
Concen: 0.204 ug/l
RT: 8.31 min Scan# 2033
Delta R.T. 0.14 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

Tgt Ion: 43 Resp: 1142
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0





#44

Trichloroethene

Concen: 33.751 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

Instrument :

MSVOA_N

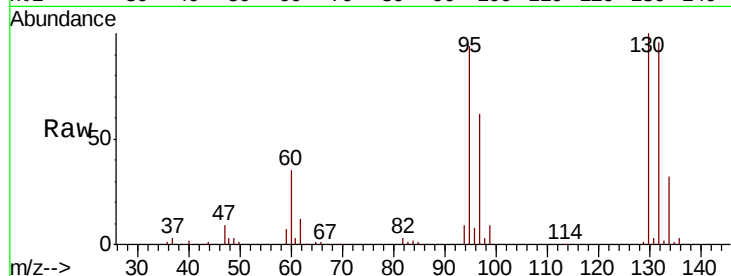
ClientSampleId :

Tot Ion:130 Resp: 114429

Ion Ratio Lower Upper

130 100

95 93.8 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)

8.83

60000

50000

40000

30000

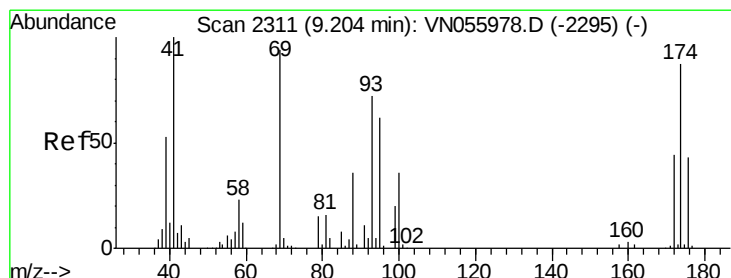
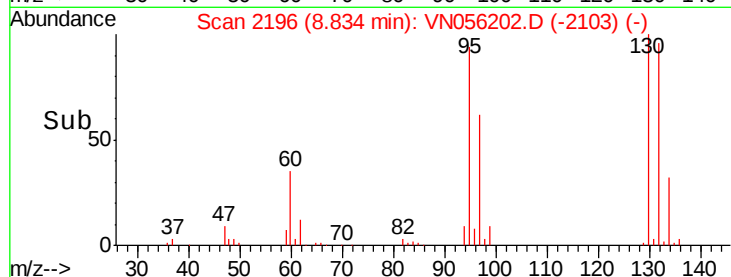
20000

10000

0

8.80 8.90

Time-->



#49

1,4-Dioxane

Concen: 4.648 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

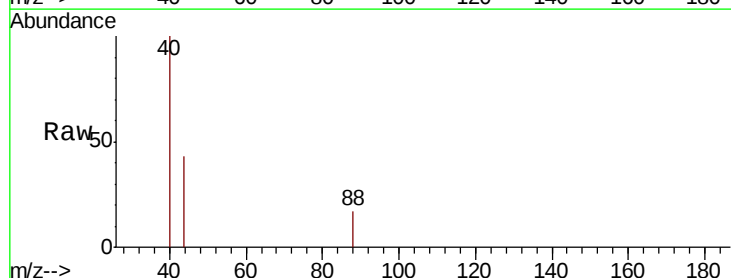
Tgt Ion: 88 Resp: 275

Ion Ratio Lower Upper

88 100

43 22.2 20.5 30.7

58 21.5 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VN055978.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN055978.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2295) (-)

9.20

300

250

200

150

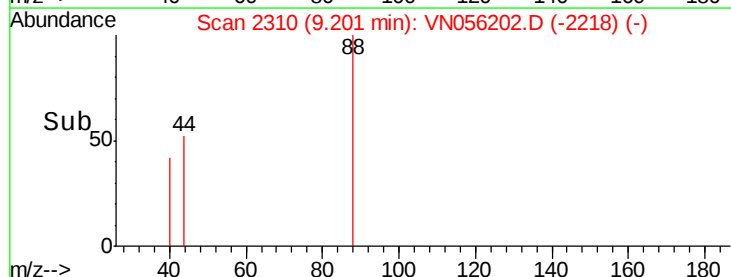
100

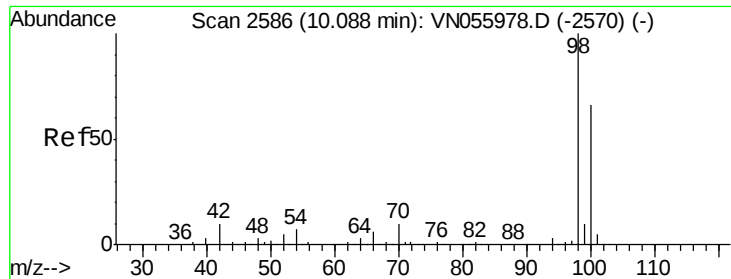
50

0

9.18 9.20 9.22

Time-->





#50

Toluene-d8

Concen: 52.845 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

Instrument :

MSVOA_N

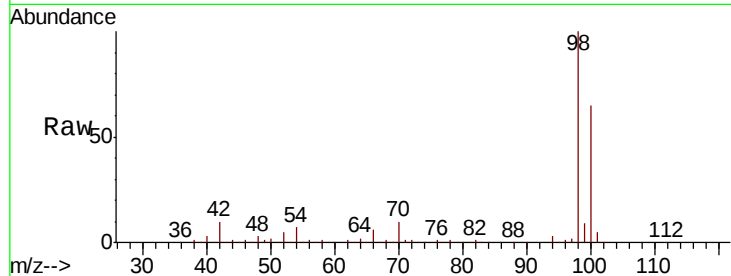
ClientSampled :

Tot Ion: 98 Resp: 563658

Ion Ratio Lower Upper

98 100

100 64.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

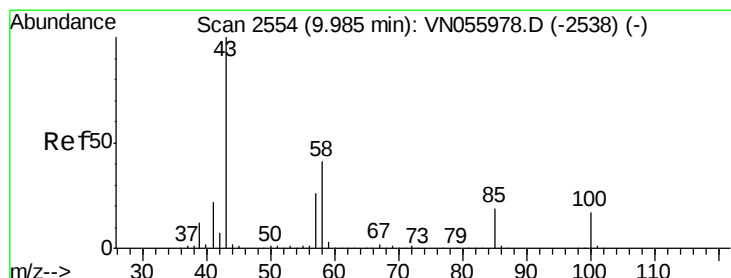
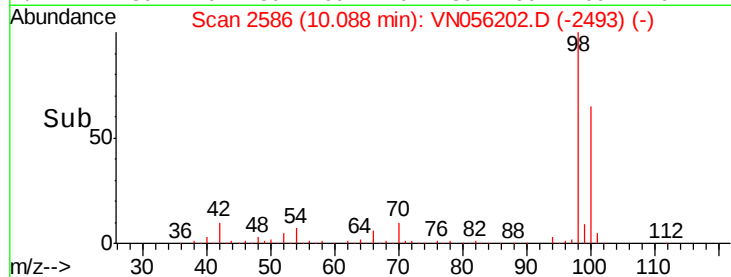
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.620 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN056202.D

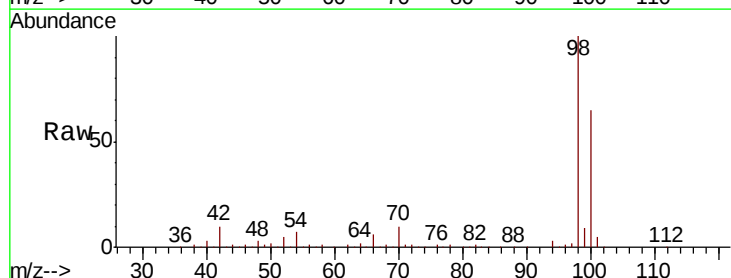
Acq: 11 Jun 2019 6:01

Tgt Ion: 43 Resp: 2173

Ion Ratio Lower Upper

43 100

58 195.2 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

2500

2000

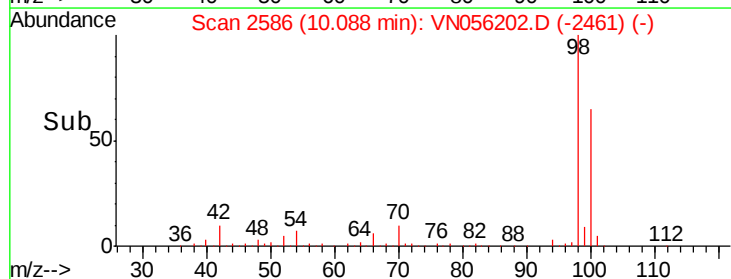
1500

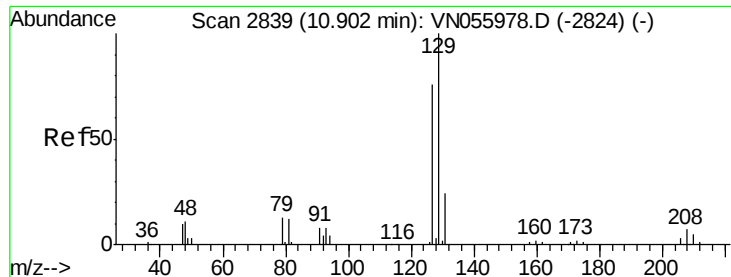
1000

500

0

Time-->

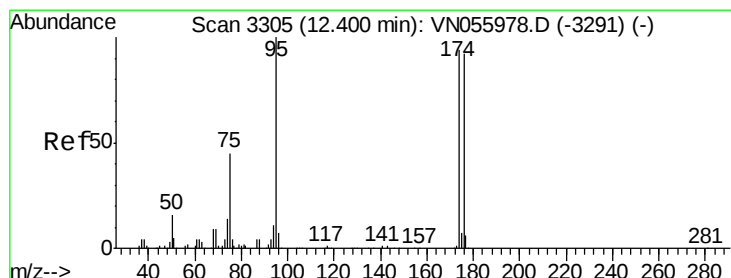
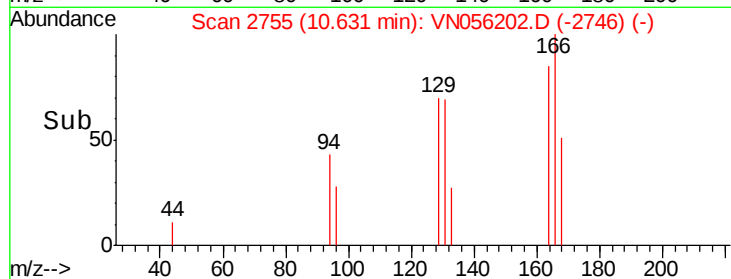
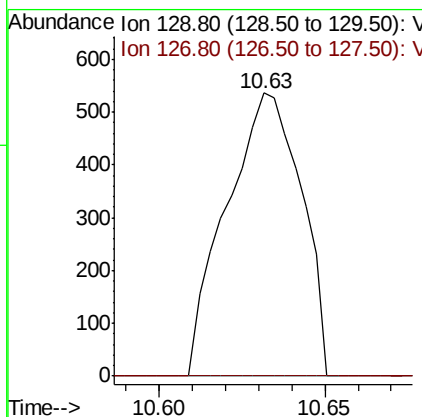
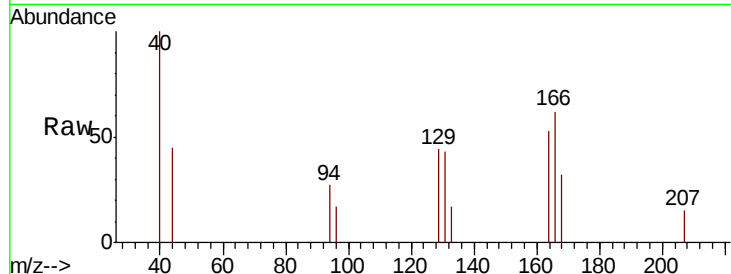




#60
 Dibromochloromethane
 Concen: 2.702 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN056202.D
 Acq: 11 Jun 2019 6:01

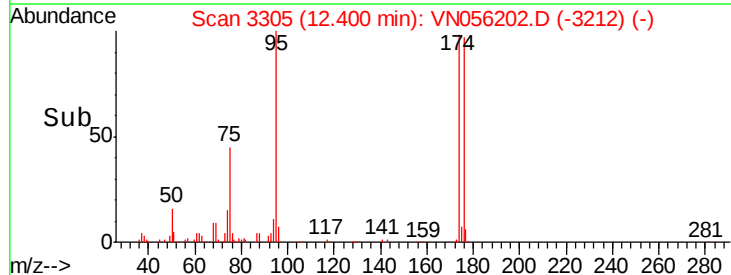
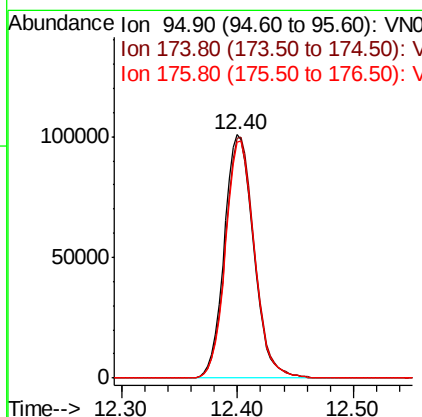
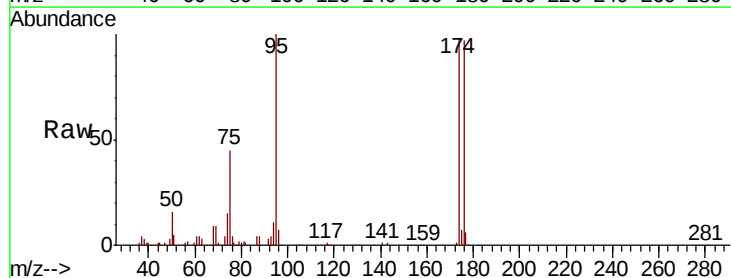
Instrument :
 MSVOA_N
 ClientSampleId :

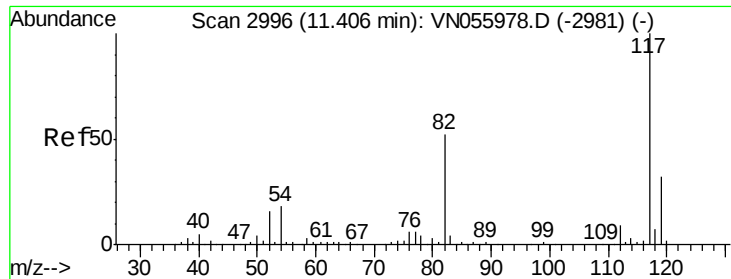
Tot Ion:129 Resp: 843
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.1 114.3#



#62
 4-Bromofluorobenzene
 Concen: 48.848 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN056202.D
 Acq: 11 Jun 2019 6:01

Tgt Ion: 95 Resp: 177190
 Ion Ratio Lower Upper
 95 100
 174 98.3 0.0 191.0
 176 95.4 0.0 185.2

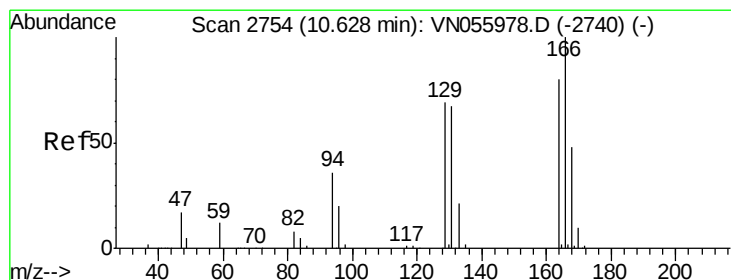
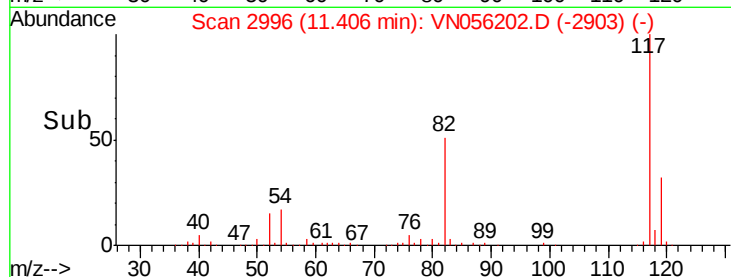
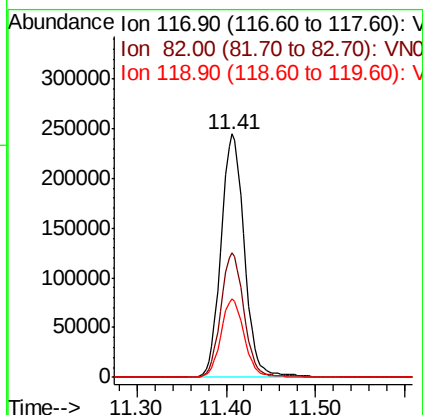
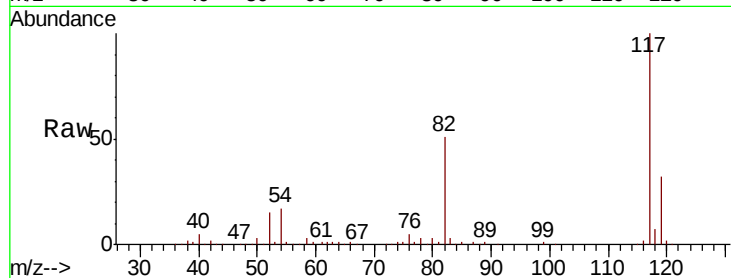




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

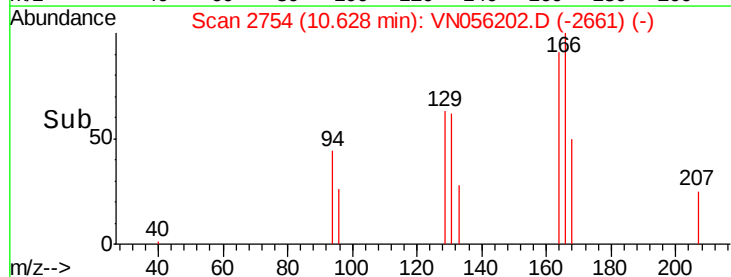
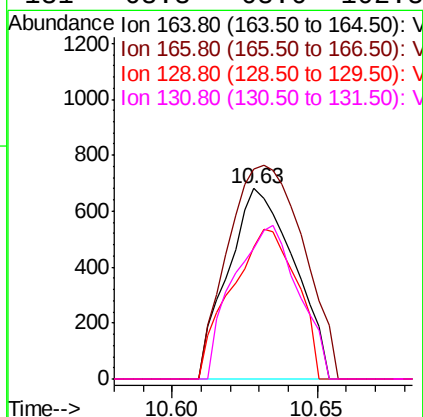
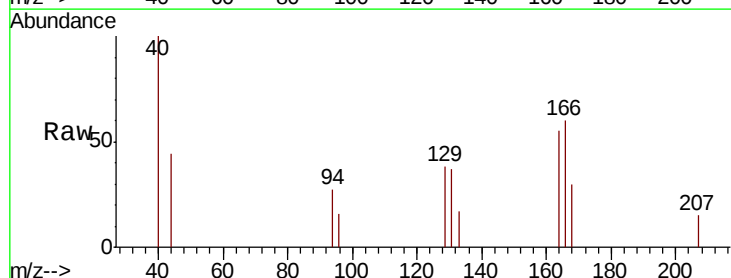
Instrument :
MSVOA_N
ClientSampled :

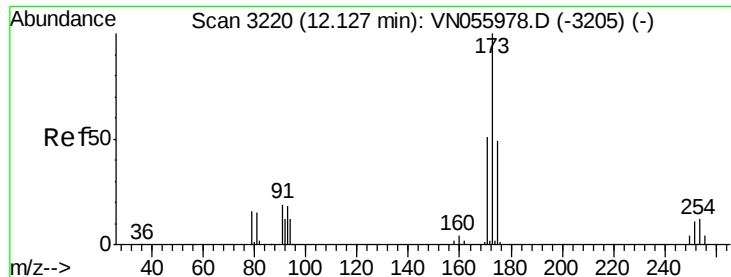
Tot Ion:117 Resp: 444412
Ion Ratio Lower Upper
117 100
82 51.3 41.8 62.8
119 32.2 25.4 38.0



#64
Tetrachloroethene
Concen: 0.280 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

Tgt Ion:164 Resp: 1079
Ion Ratio Lower Upper
164 100
166 110.3 103.0 154.6
129 69.3 70.6 105.8#
131 68.3 68.6 102.8#





#71

Bromoform

Concen: 2.758 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.25 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

Instrument :

MSVOA_N

ClientSampleId :

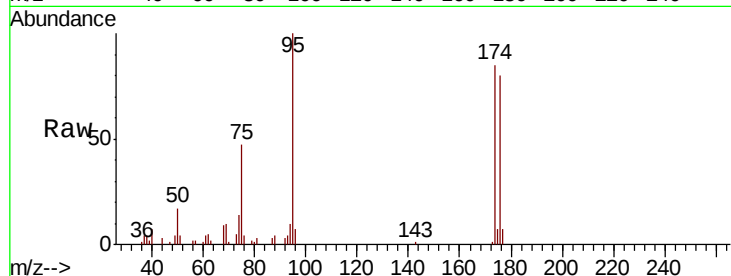
Tot Ion:173 Resp: 44

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.8#

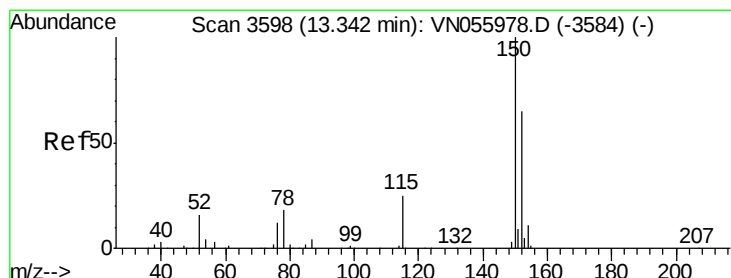
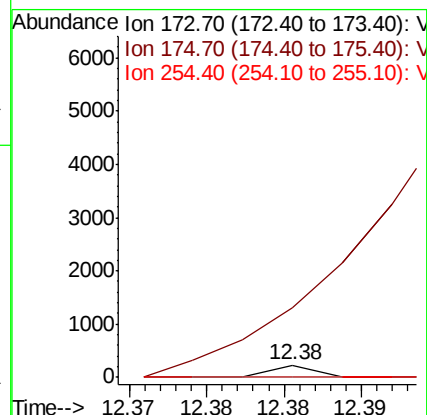
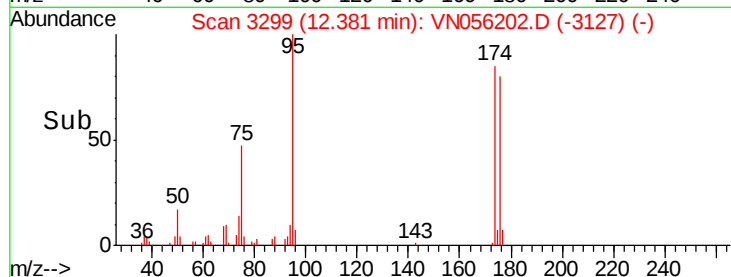
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

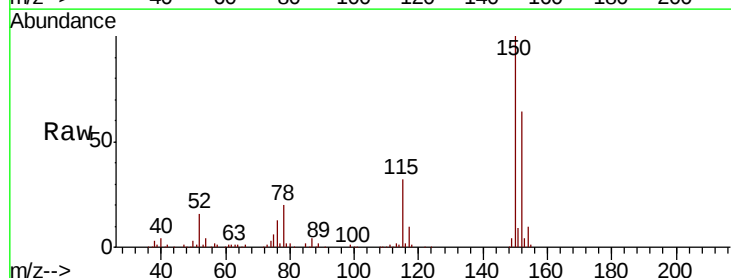
Tgt Ion:152 Resp: 138277

Ion Ratio Lower Upper

152 100

115 51.7 27.0 81.0

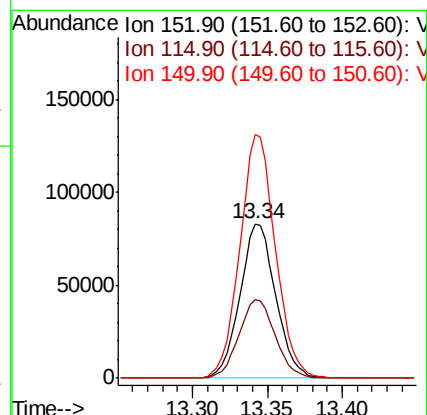
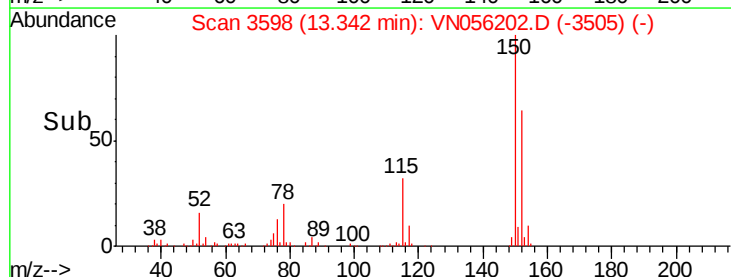
150 156.9 0.0 343.2

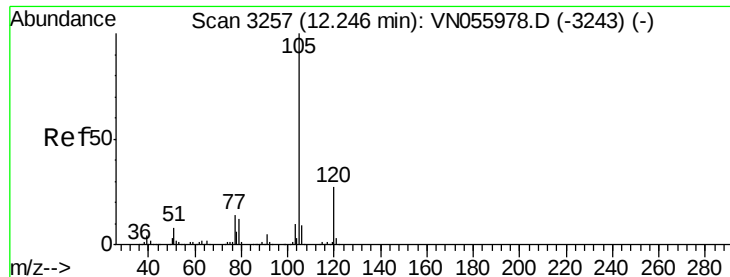


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

Instrument :

MSVOA_N

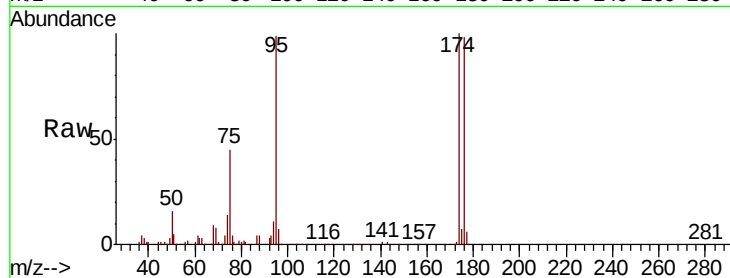
ClientSampleId :

Tot Ion: 105 Resp: 90

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.40

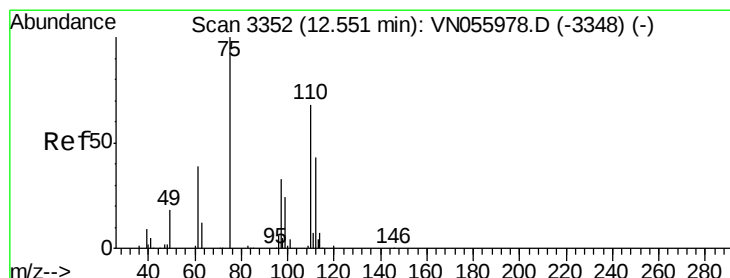
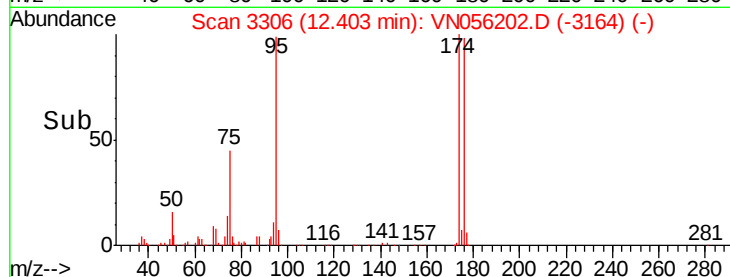
150

100

50

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 31.433 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056202.D

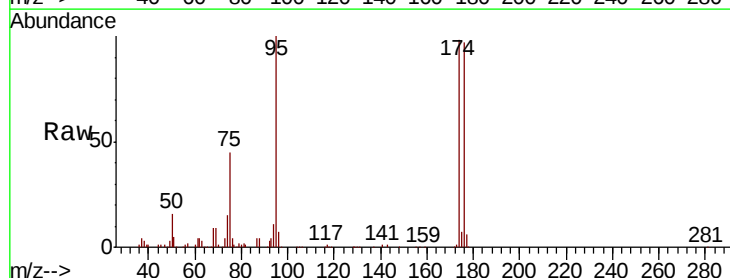
Acq: 11 Jun 2019 6:01

Tgt Ion: 75 Resp: 79976

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.40

50000

40000

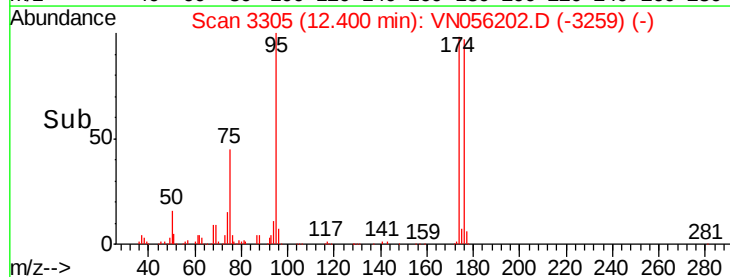
30000

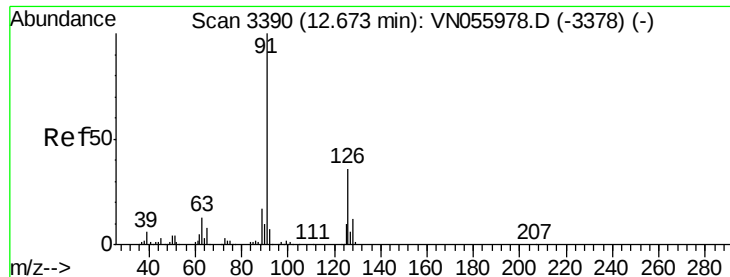
20000

10000

0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

Instrument :

MSVOA_N

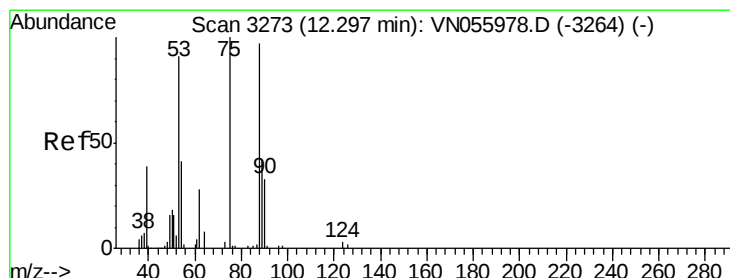
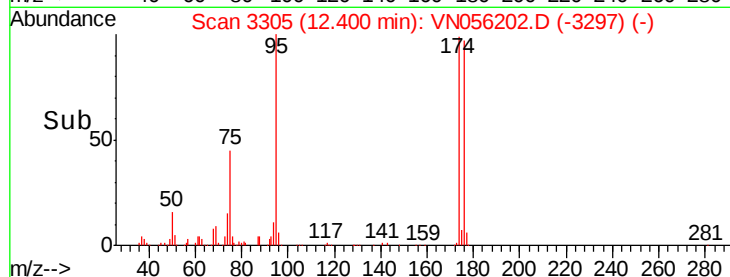
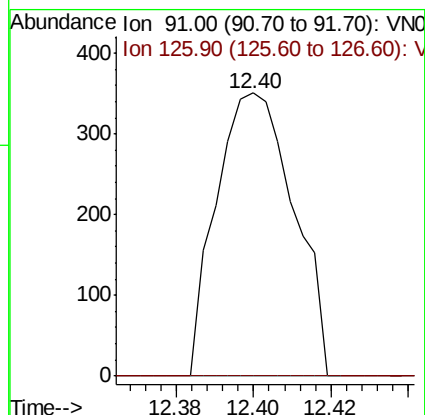
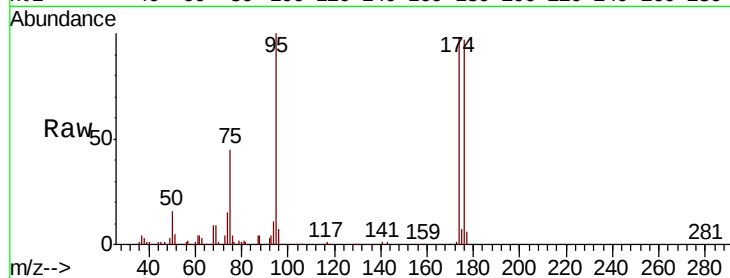
ClientSampleId :

Tot Ion: 91 Resp: 487

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 104.677 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056202.D

Acq: 11 Jun 2019 6:01

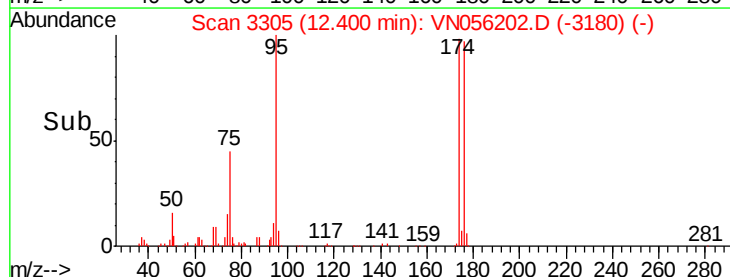
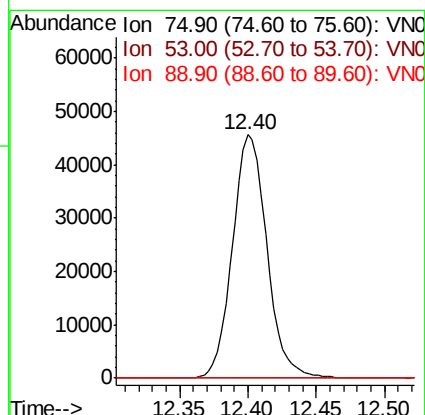
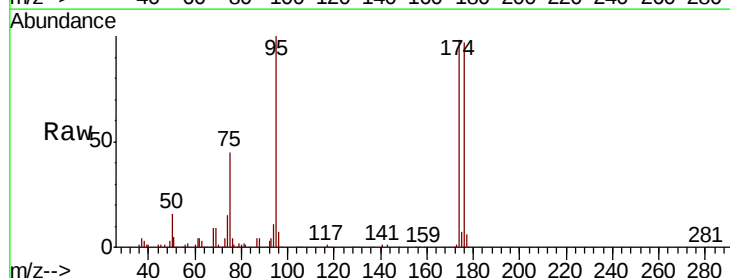
Tgt Ion: 75 Resp: 79976

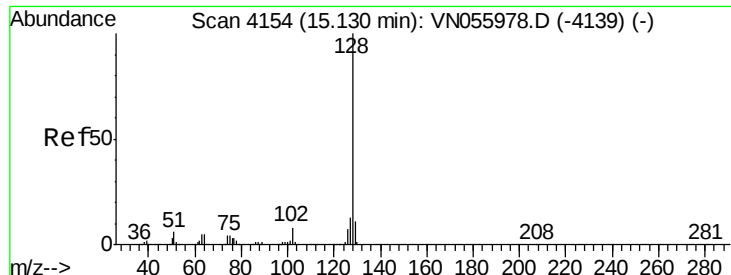
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

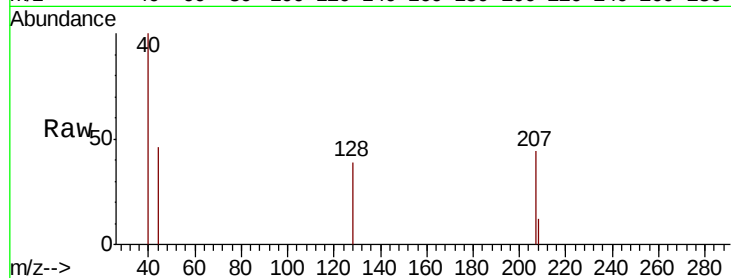




#95
Naphthalene
Concen: 3.944 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN056202.D
Acq: 11 Jun 2019 6:01

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	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

