

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054211.D
 Acq On : 13 Mar 2019 14:48
 Operator : JC/SP
 Sample : K1842-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 14 05:17:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1416745	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2284504	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2391029	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1020825	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	739072	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
35) Dibromofluoromethane	7.59	113	702476	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	2873023	52.80	ug/l	0.00
Spiked Amount			Recovery	=	105.60%	
62) 4-Bromofluorobenzene	12.40	95	1085953	57.04	ug/l	0.00
Spiked Amount			Recovery	=	114.08%	

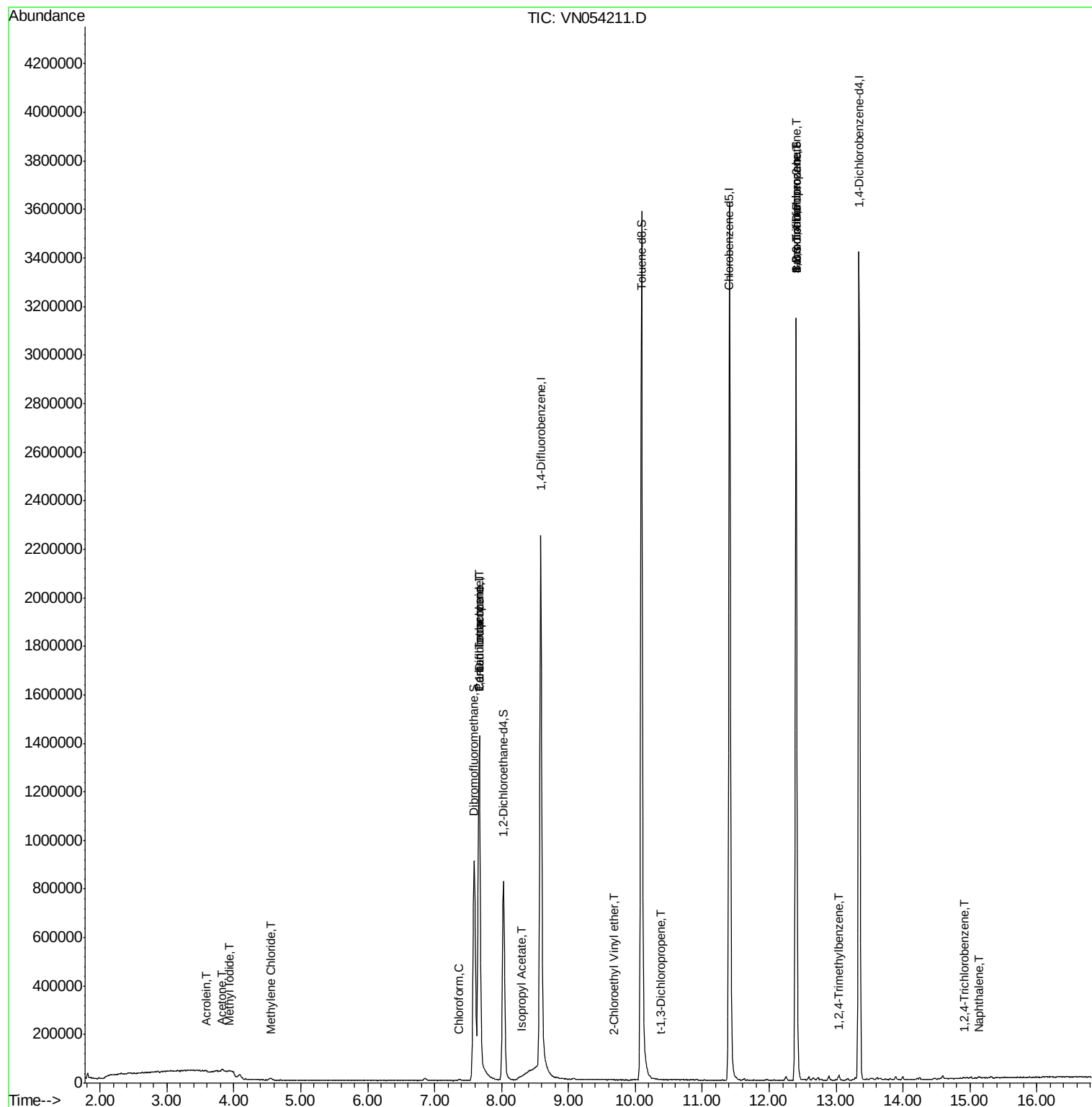
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	305	1.511	ug/l #	90
13) Acrolein	3.60	56	298	0.305	ug/l #	1
16) Acetone	3.82	43	11295	2.622	ug/l	96
20) Methylene Chloride	4.54	84	3402	0.241	ug/l	90
30) Chloroform	7.37	83	7266	0.288	ug/l	84
31) Cyclohexane	7.67	56	21203	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	80236	3.814	ug/l #	48
38) Carbon Tetrachloride	7.67	117	114547	5.192	ug/l #	16
43) Isopropyl Acetate	8.29	43	15545	0.733	ug/l #	60
53) t-1,3-Dichloropropene	10.38	75	530	2.008	ug/l #	32
58) 2-Chloroethyl Vinyl ether	9.69	63	29	16.832	ug/l #	44
71) Bromoform	12.40	173	6776	2.795	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	523706	34.887	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	523706	119.258	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	14154	0.212	ug/l	90
93) 1,2,4-Trichlorobenzene	14.91	180	1932	2.602	ug/l	92
95) Naphthalene	15.13	128	5414	3.582	ug/l	97

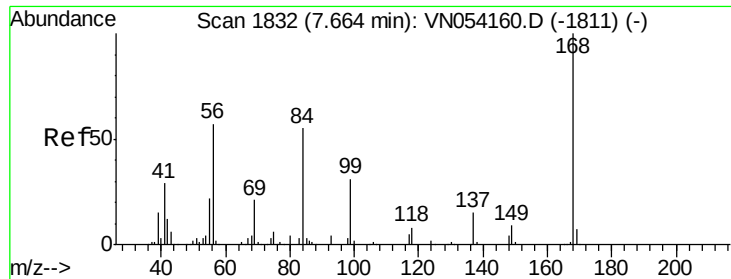
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Quant Time: Mar 14 05:17:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

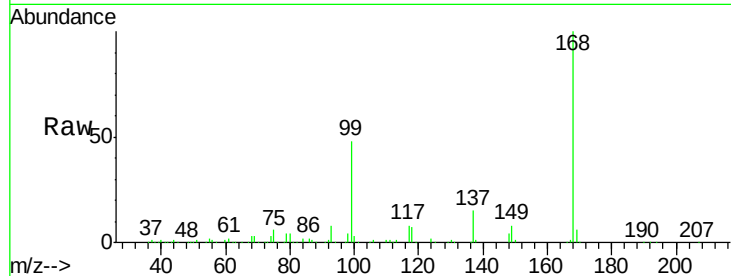
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1416745

Ion Ratio Lower Upper

168 100

99 47.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

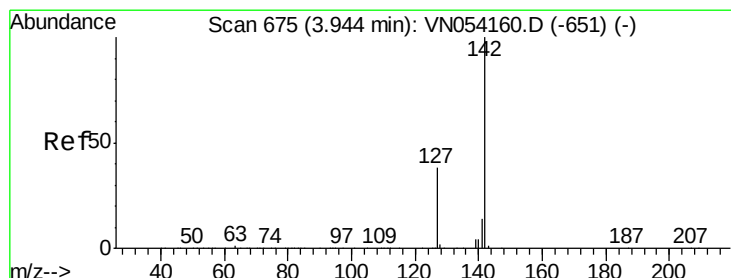
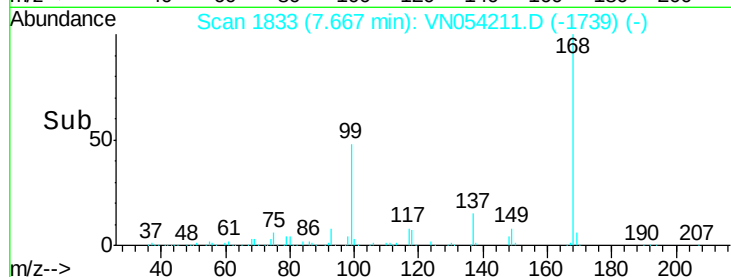
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.511 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

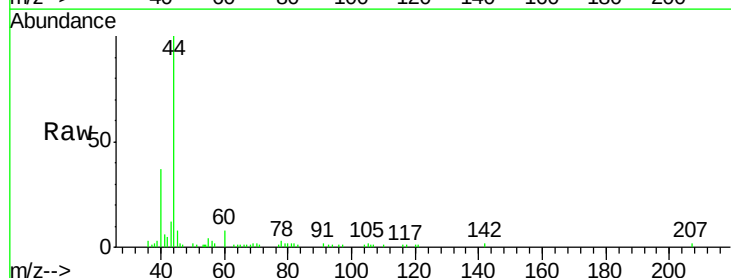
Tgt Ion:142 Resp: 305

Ion Ratio Lower Upper

142 100

127 32.5 30.3 45.5

141 9.5 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.94

400

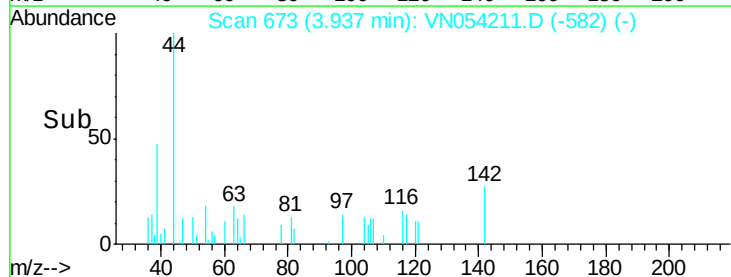
300

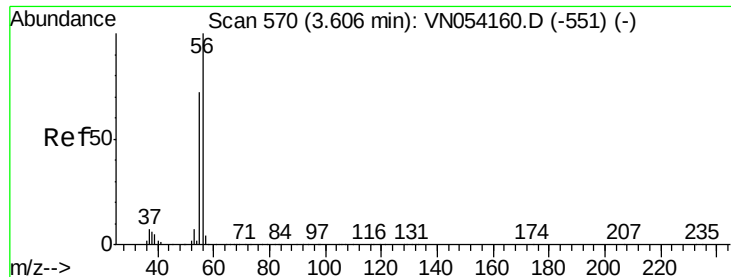
200

100

0

Time--> 3.92 3.93 3.94 3.95





#13

Acrolein

Concen: 0.305 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

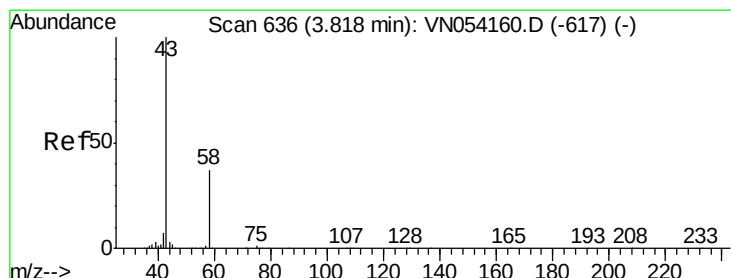
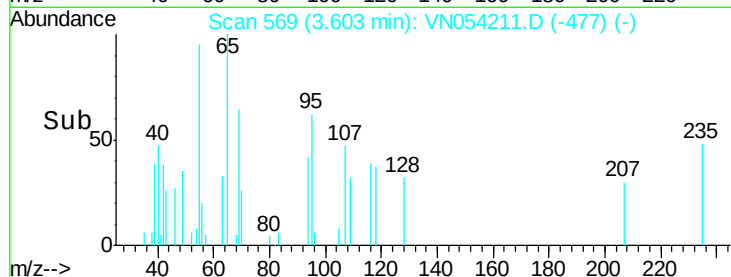
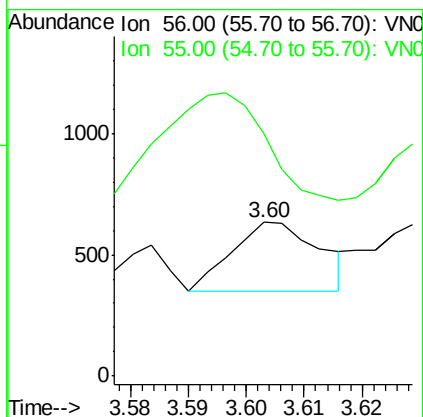
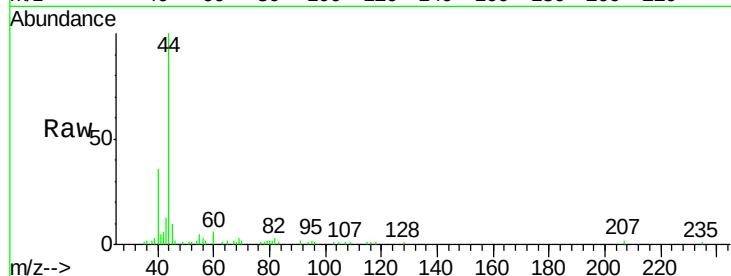
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 298

Ion Ratio Lower Upper

56 100

55 263.4 56.7 85.1#



#16

Acetone

Concen: 2.622 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054211.D

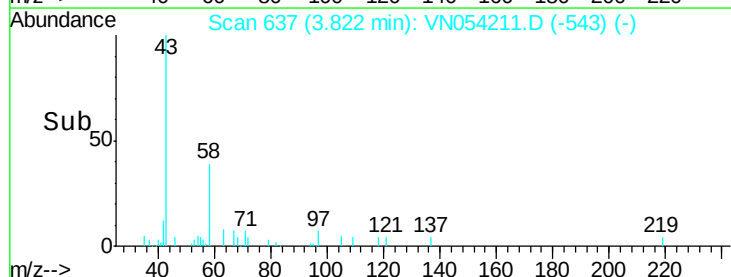
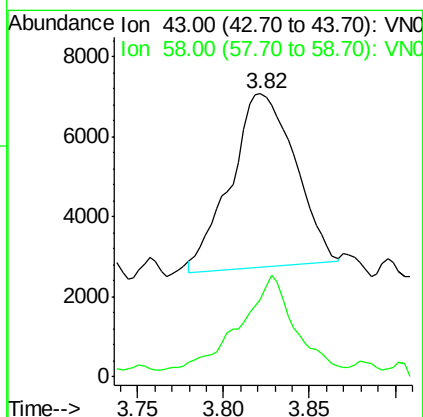
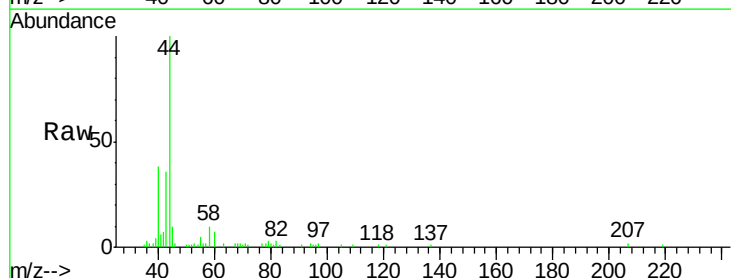
Acq: 13 Mar 2019 14:48

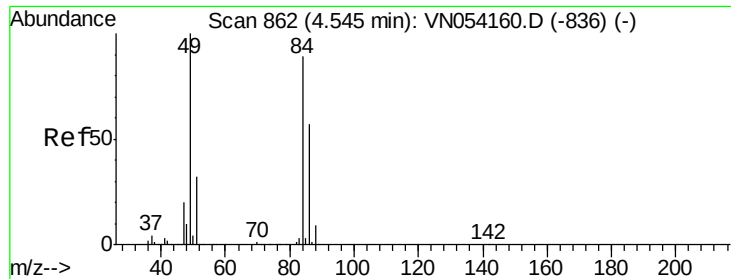
Tgt Ion: 43 Resp: 11295

Ion Ratio Lower Upper

43 100

58 40.0 29.9 44.9

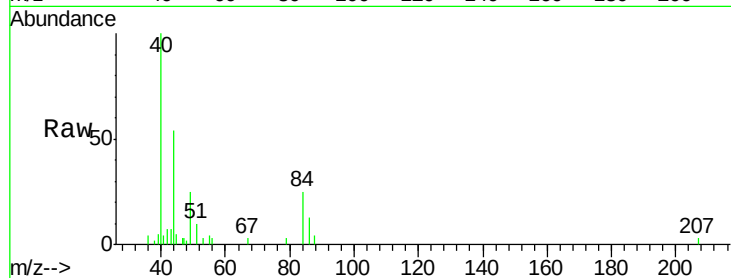




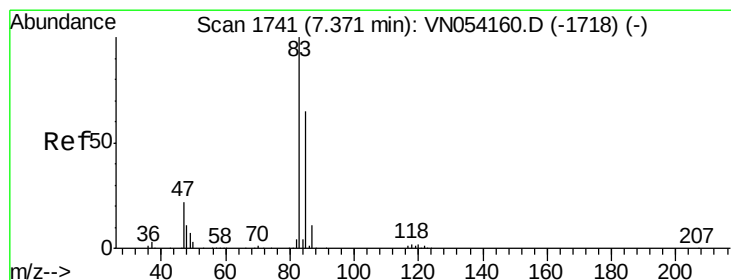
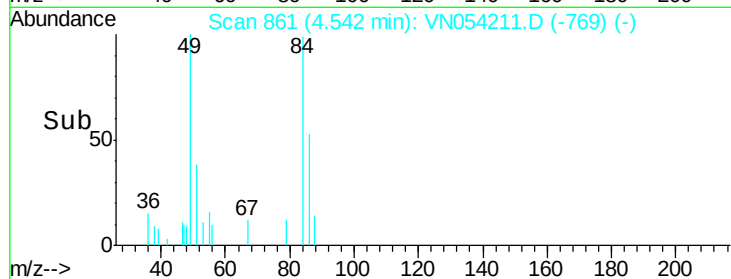
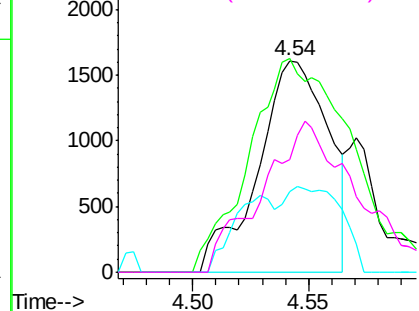
#20
Methvlene Chloride
Concen: 0.241 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054211.D
Acq: 13 Mar 2019 14:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	3402
Ion	Ratio	Lower	Upper
84	100		
49	100.9	89.7	134.5
51	38.2	28.2	42.4
86	53.4	50.8	76.2

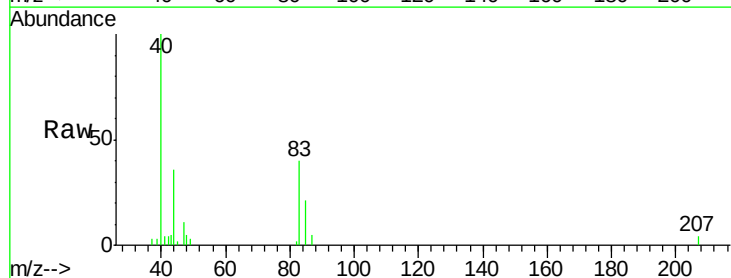


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

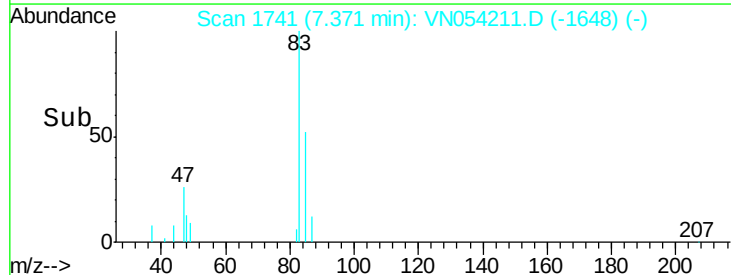
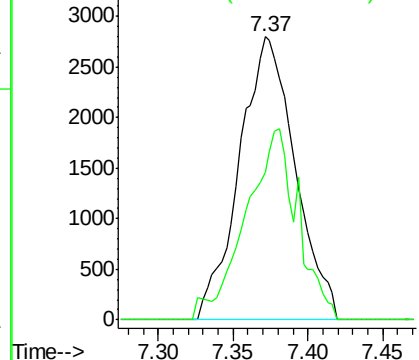


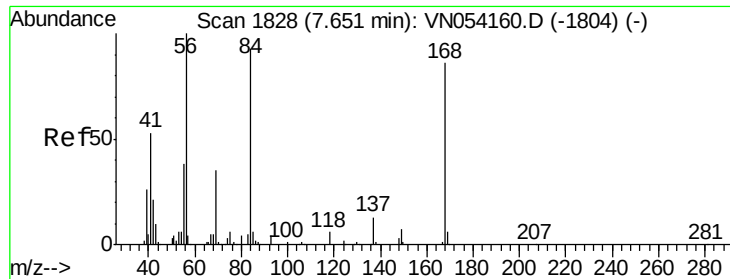
#30
Chloroform
Concen: 0.288 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054211.D
Acq: 13 Mar 2019 14:48

Tgt Ion:	83	Resp:	7266
Ion	Ratio	Lower	Upper
83	100		
85	52.4	52.2	78.4



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0

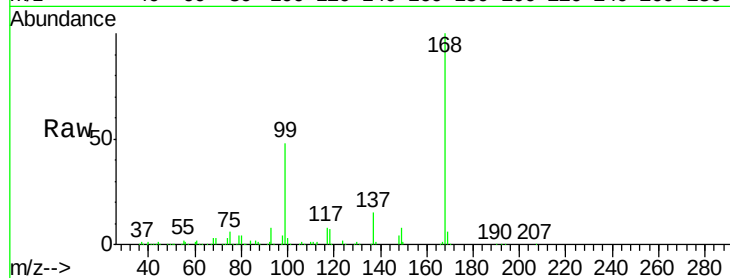




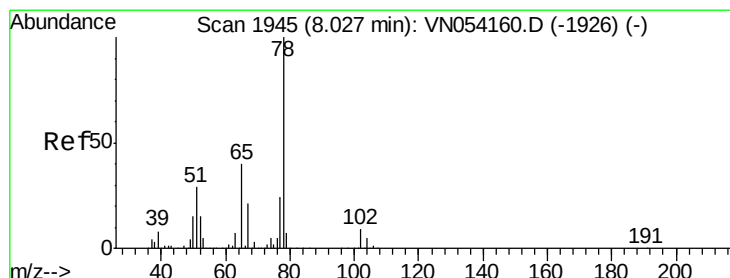
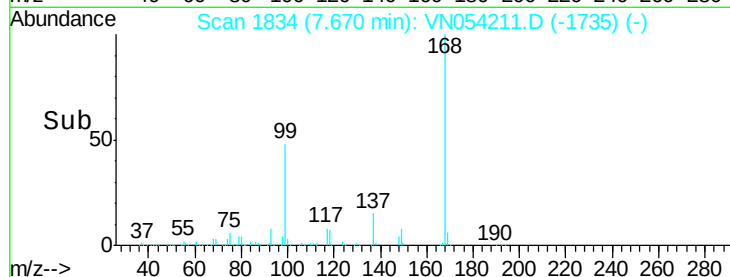
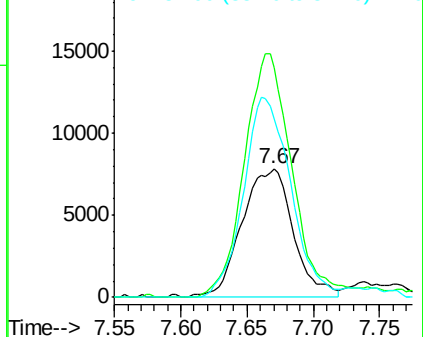
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN054211.D
Acq: 13 Mar 2019 14:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 21203
Ion Ratio Lower Upper
56 100
69 178.3 27.8 41.6#
84 138.3 74.6 111.8#

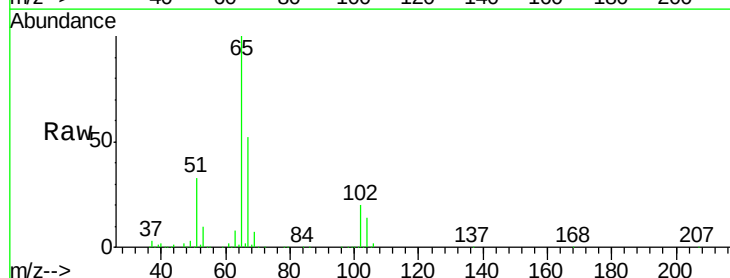


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

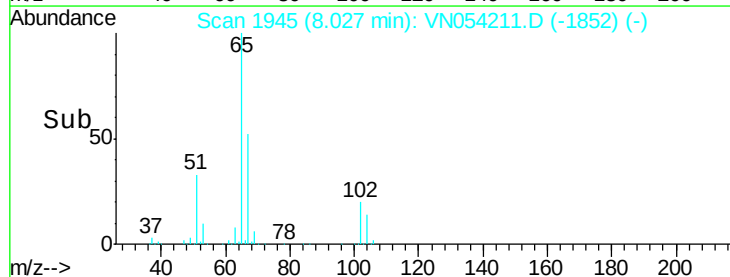
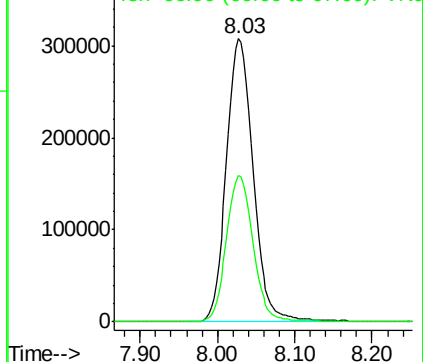


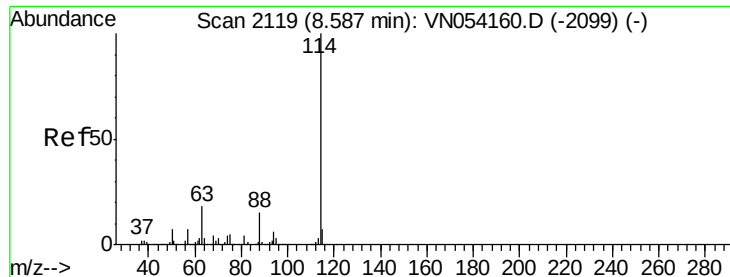
#33
1,2-Dichloroethane-d4
Concen: 49.121 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054211.D
Acq: 13 Mar 2019 14:48

Tgt Ion: 65 Resp: 739072
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.6



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

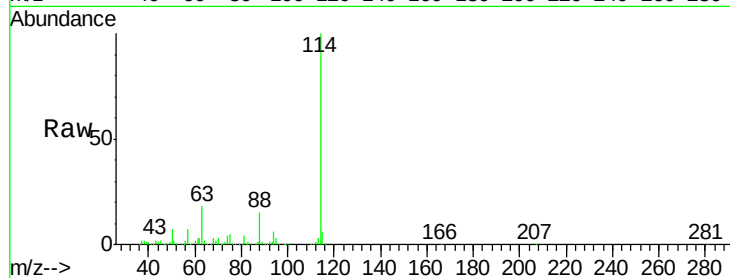




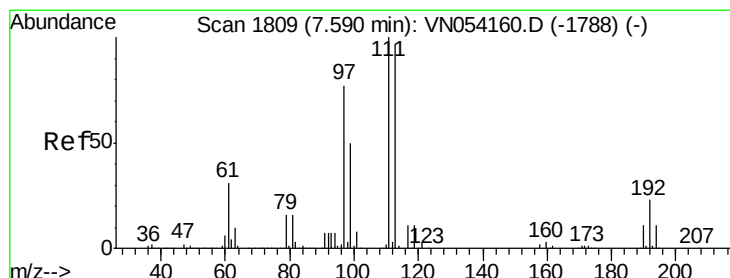
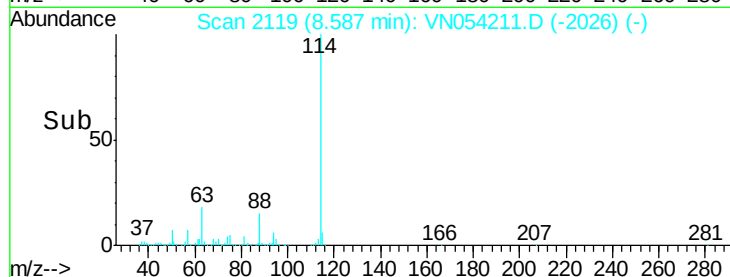
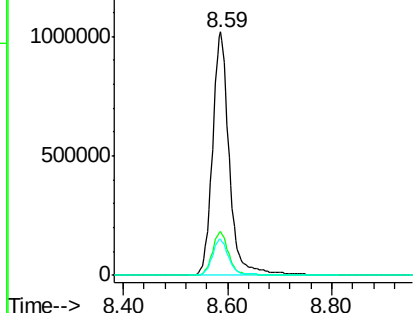
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054211.D
 Acq: 13 Mar 2019 14:48

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 2284504
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.2
 88 14.7 0.0 30.2

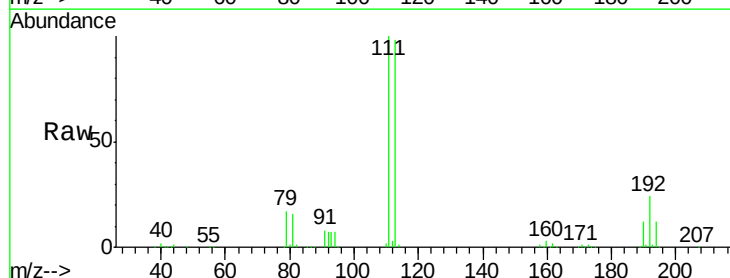


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

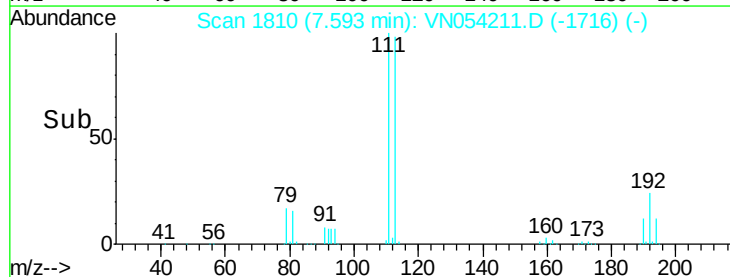
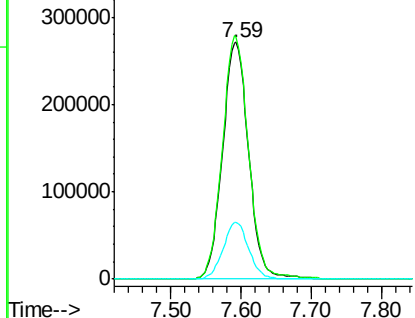


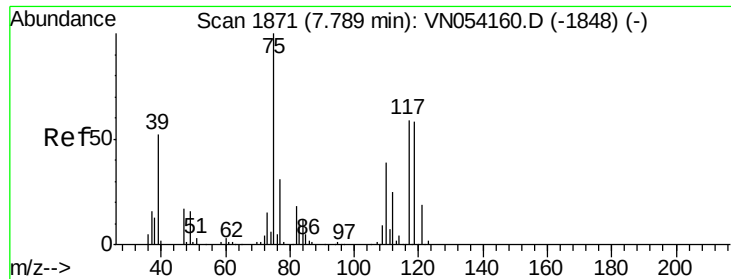
#35
 Dibromofluoromethane
 Concen: 47.677 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054211.D
 Acq: 13 Mar 2019 14:48

Tgt Ion:113 Resp: 702476
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.2 123.4
 192 23.5 19.2 28.8



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

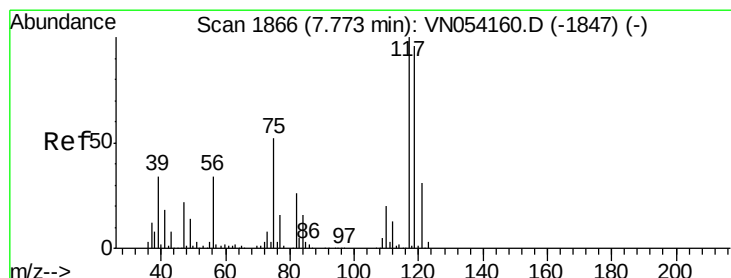
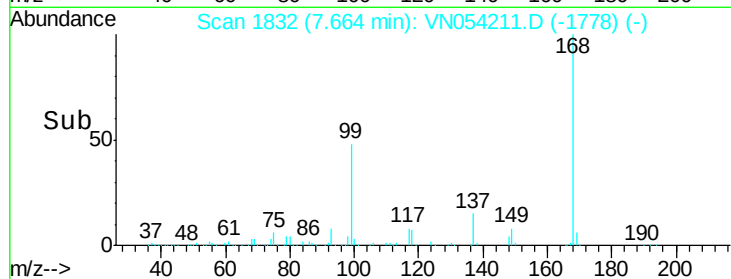
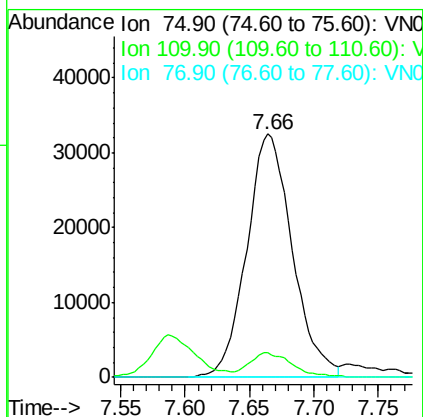
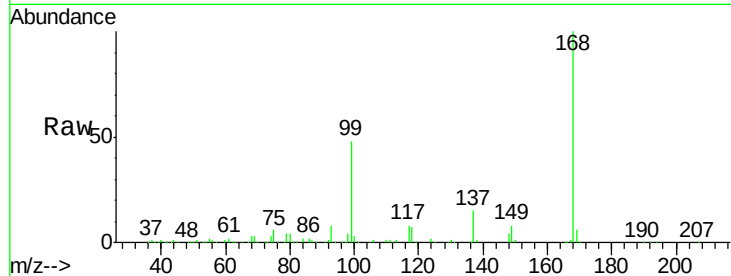




#36
 1,1-Dichloropropene
 Concen: 3.814 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054211.D
 Acq: 13 Mar 2019 14:48

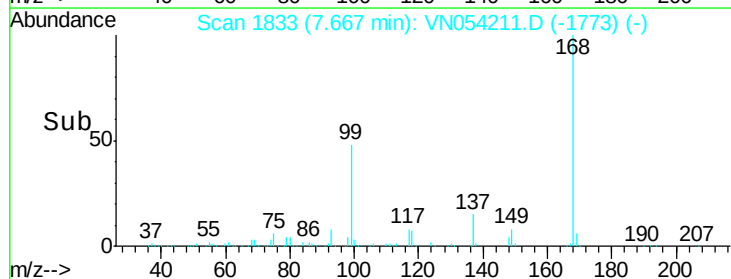
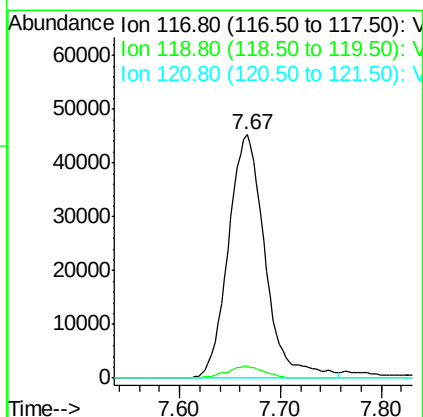
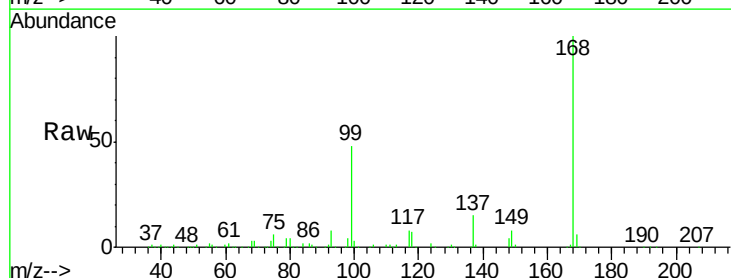
Instrument :
 MSVOA_N
 ClientSampled :

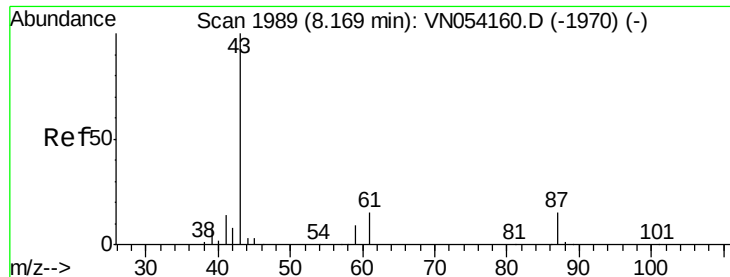
Tot Ion: 75 Resp: 80236
 Ion Ratio Lower Upper
 75 100
 110 9.5 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.192 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054211.D
 Acq: 13 Mar 2019 14:48

Tgt Ion: 117 Resp: 114547
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 0.733 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

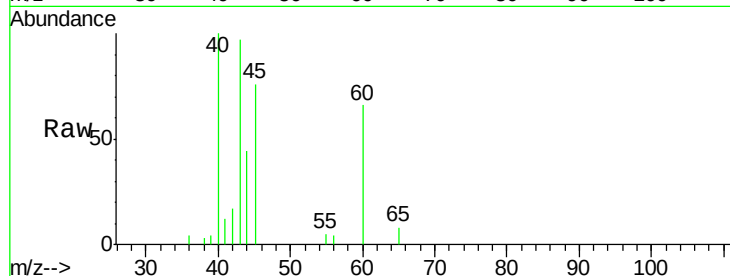
Tot Ion: 43 Resp: 15545

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

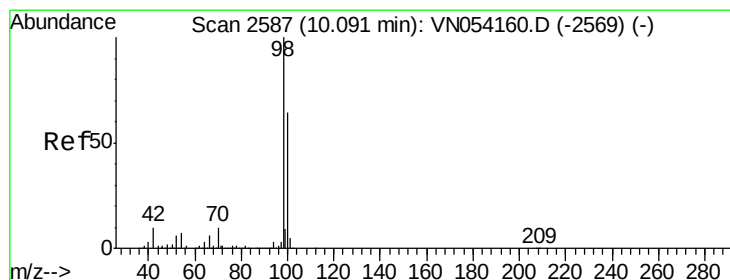
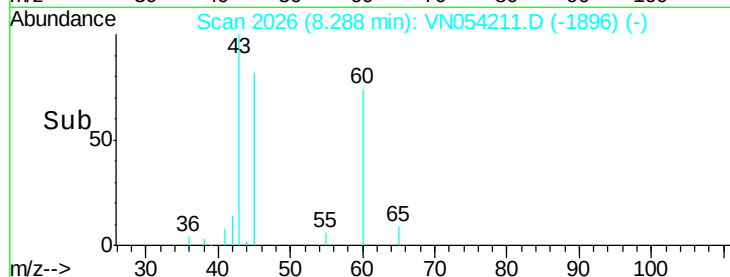
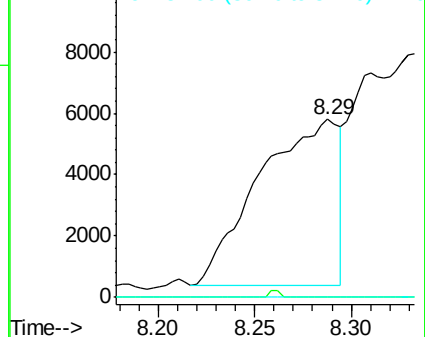
87 0.0 12.0 18.0#



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



#50

Toluene-d8

Concen: 52.798 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054211.D

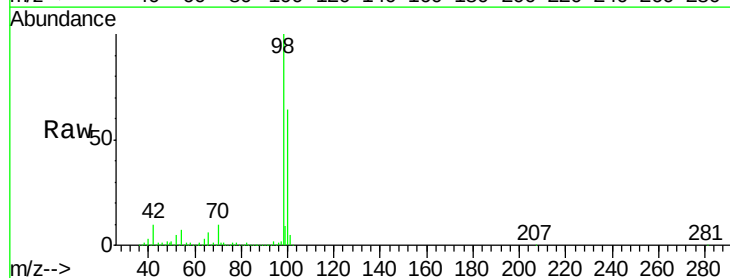
Acq: 13 Mar 2019 14:48

Tgt Ion: 98 Resp: 2873023

Ion Ratio Lower Upper

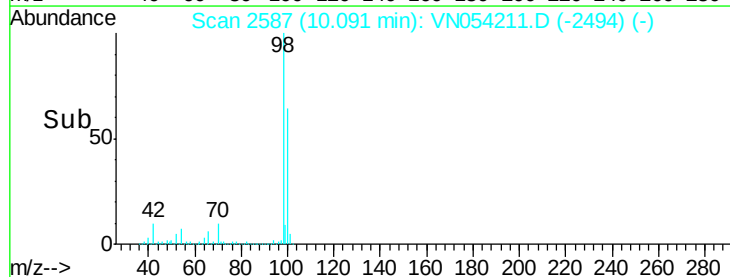
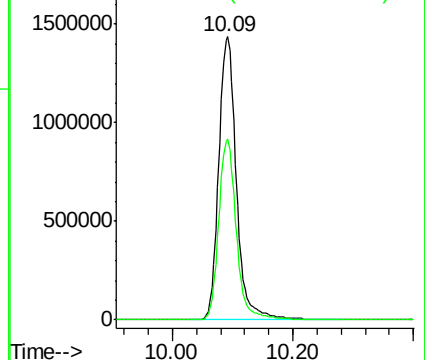
98 100

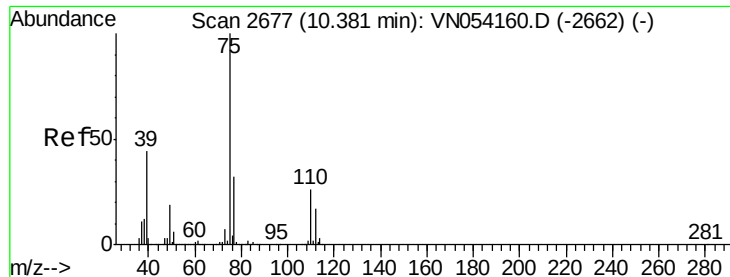
100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#53

t-1,3-Dichloropropene

Concen: 2.008 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

Instrument :

MSVOA_N

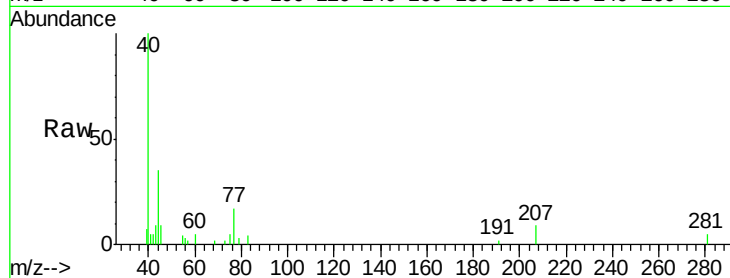
ClientSampled :

Tot Ion: 75 Resp: 530

Ion Ratio Lower Upper

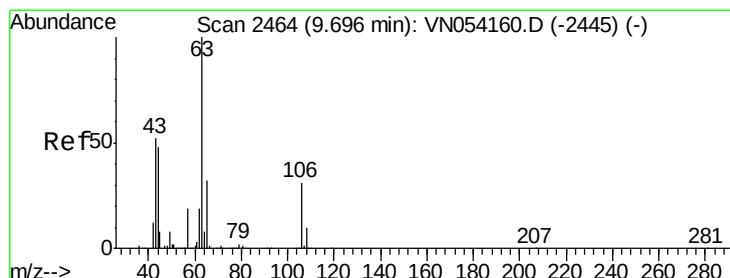
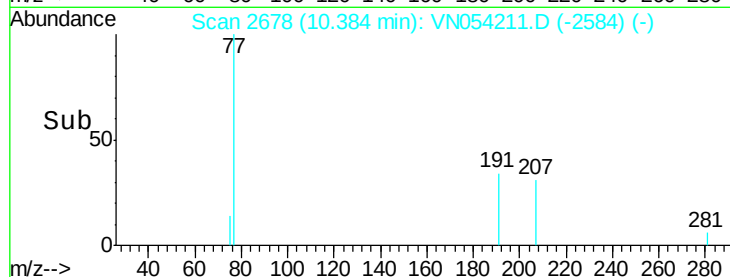
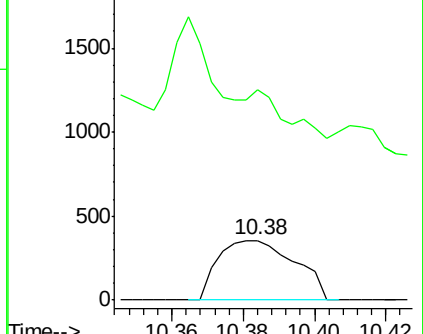
75 100

77 70.4 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 16.832 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN054211.D

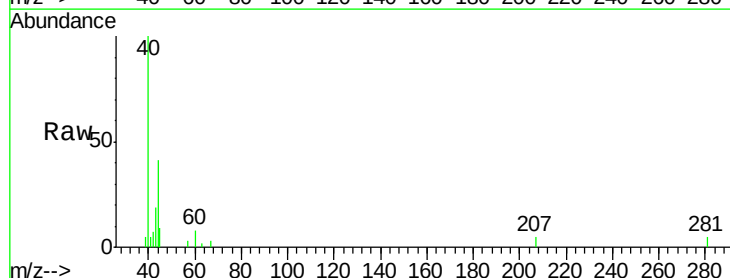
Acq: 13 Mar 2019 14:48

Tgt Ion: 63 Resp: 29

Ion Ratio Lower Upper

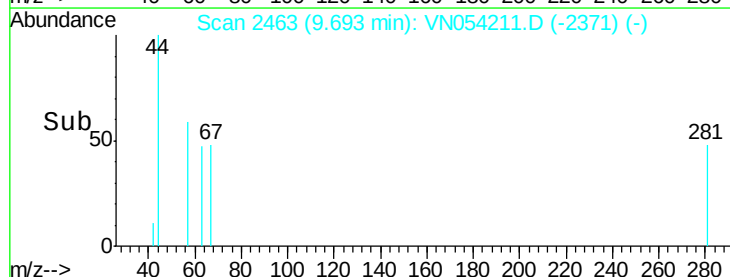
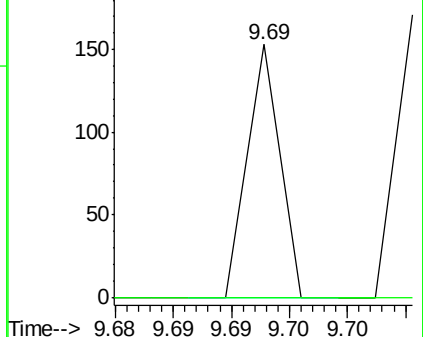
63 100

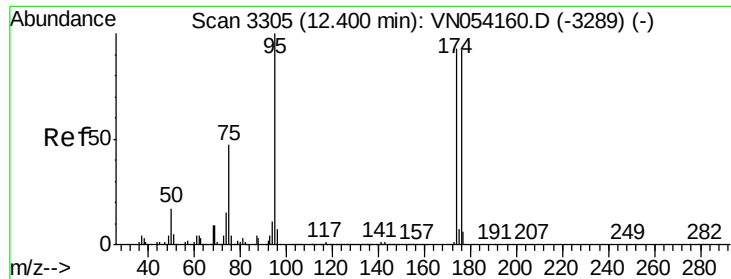
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

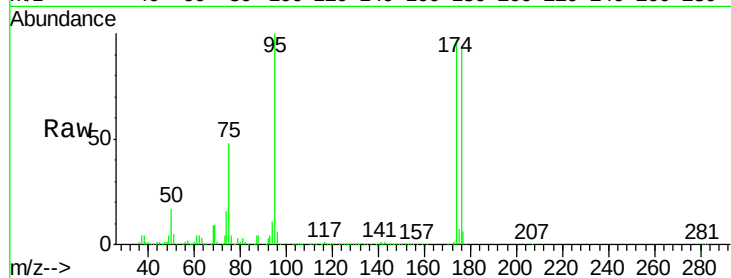




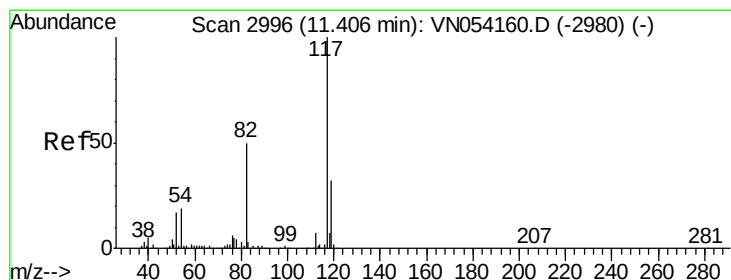
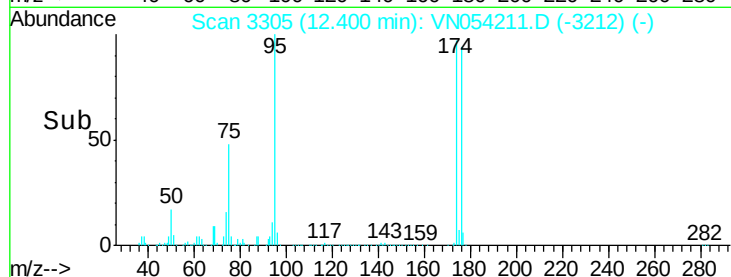
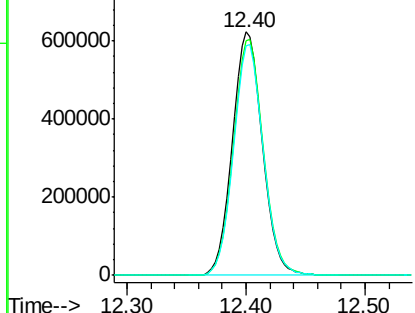
#62
4-Bromofluorobenzene
Concen: 57.036 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054211.D
Acq: 13 Mar 2019 14:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 1085953
Ion Ratio Lower Upper
95 100
174 96.8 0.0 191.0
176 94.3 0.0 187.4

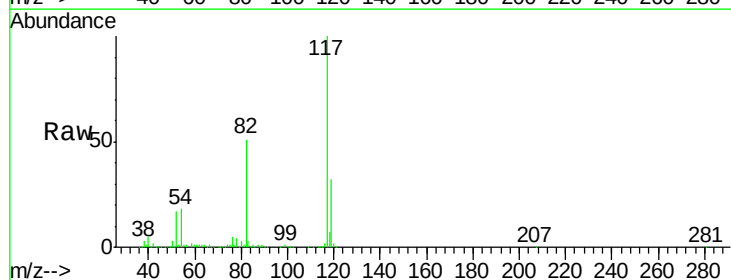


Abundance Ion 94.90 (94.60 to 95.60): VN054211.D (-3212) (-)
Ion 173.80 (173.50 to 174.50): VN054211.D (-3212) (-)
Ion 175.80 (175.50 to 176.50): VN054211.D (-3212) (-)

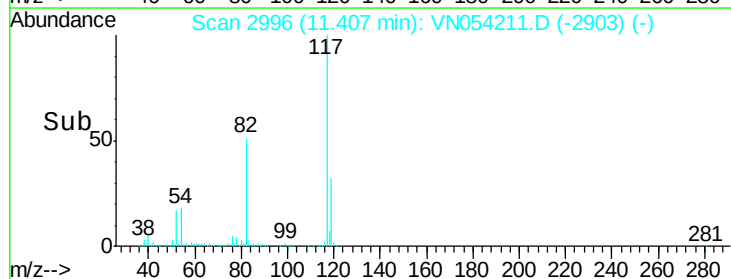
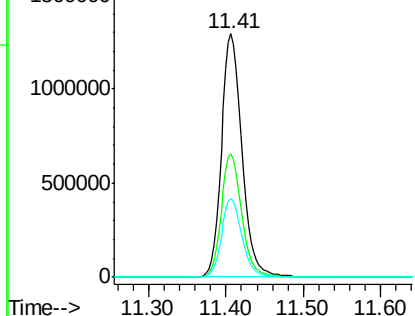


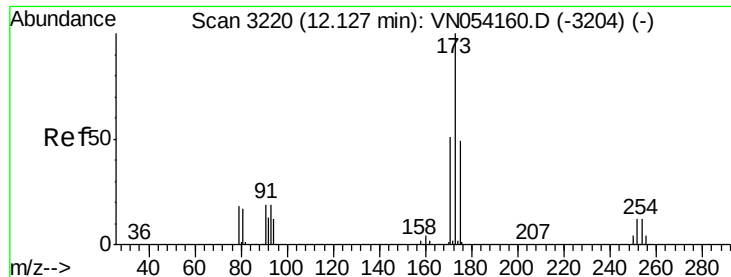
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054211.D
Acq: 13 Mar 2019 14:48

Tgt Ion: 117 Resp: 2391029
Ion Ratio Lower Upper
117 100
82 50.7 40.0 60.0
119 32.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN054211.D (-2903) (-)
Ion 82.00 (81.70 to 82.70): VN054211.D (-2903) (-)
Ion 118.90 (118.60 to 119.60): VN054211.D (-2903) (-)





#71

Bromoform

Concen: 2.795 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

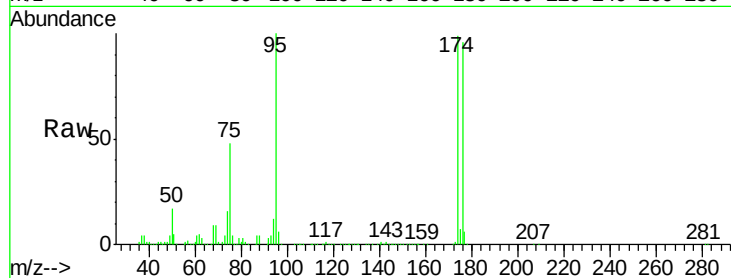
Tot Ion:173 Resp: 6776

Ion Ratio Lower Upper

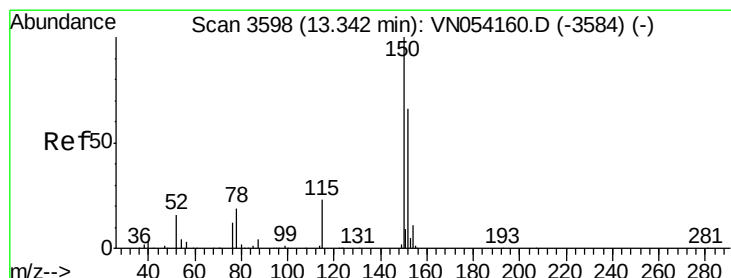
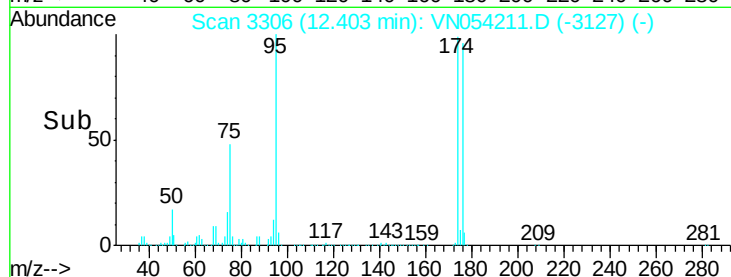
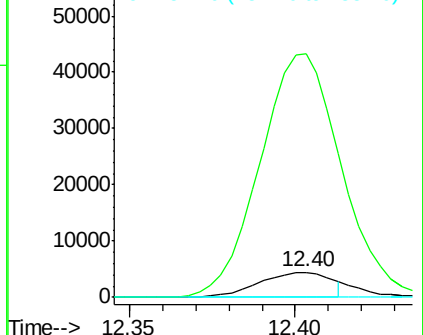
173 100

175 945.7 24.4 73.2#

254 0.0 0.1 0.1#



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: VN054211.D

Acq: 13 Mar 2019 14:48

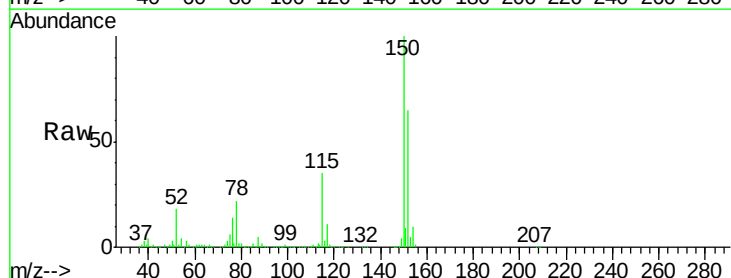
Tgt Ion:152 Resp: 1020825

Ion Ratio Lower Upper

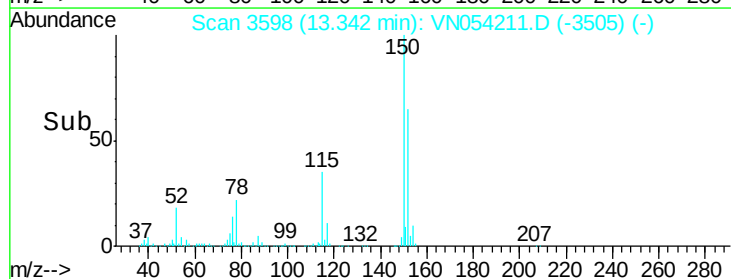
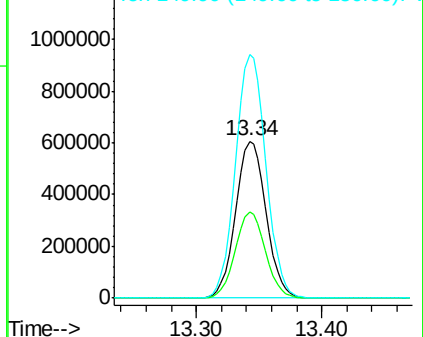
152 100

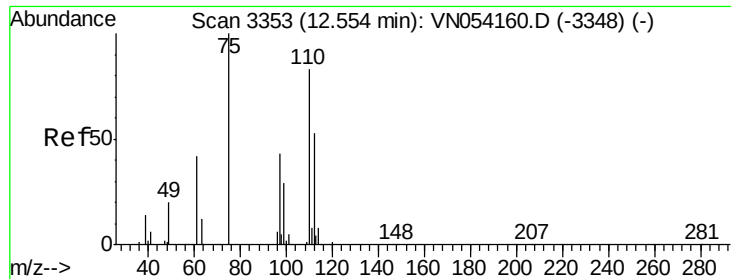
115 54.2 27.2 81.6

150 155.5 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: 34.887 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

Instrument :

MSVOA_N

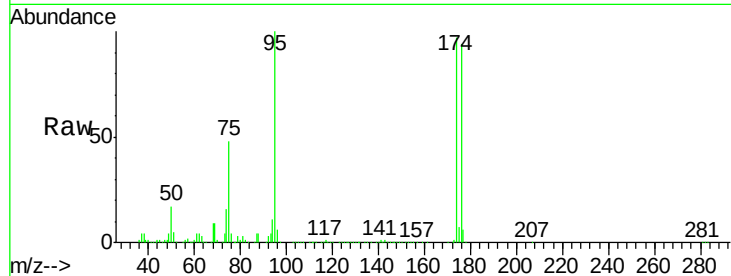
ClientSampleId :

Tot Ion: 75 Resp: 523706

Ion Ratio Lower Upper

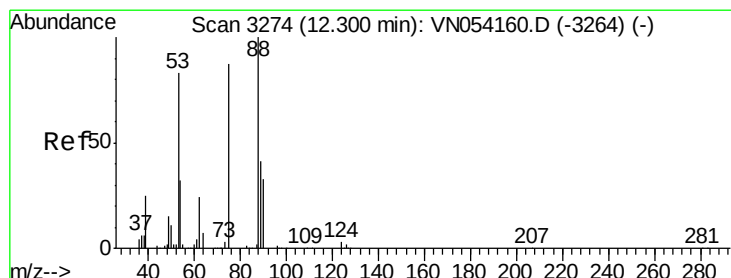
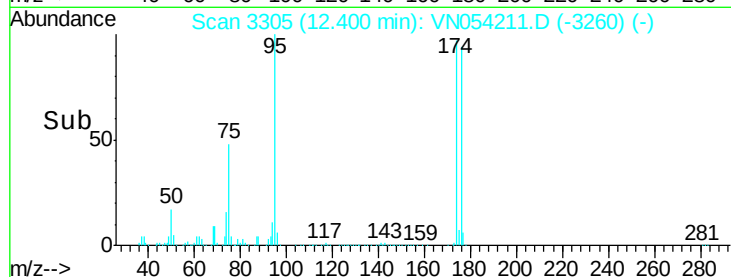
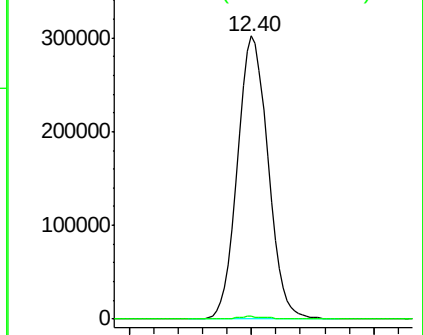
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 119.258 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

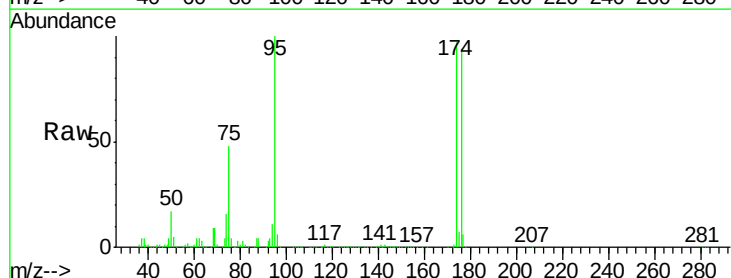
Tgt Ion: 75 Resp: 523706

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

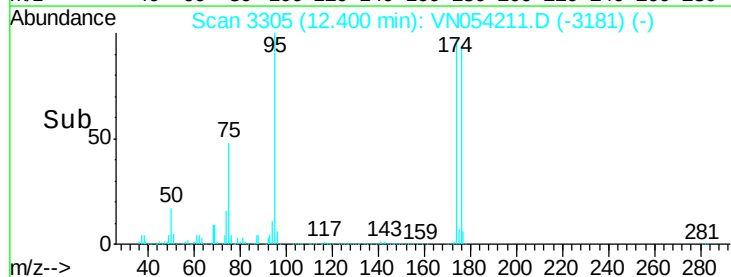
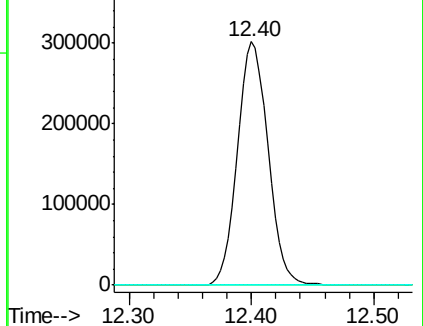
89 0.0 39.2 58.8#

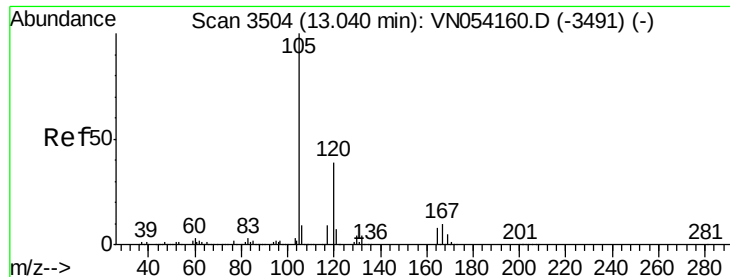


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.212 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

Instrument :

MSVOA_N

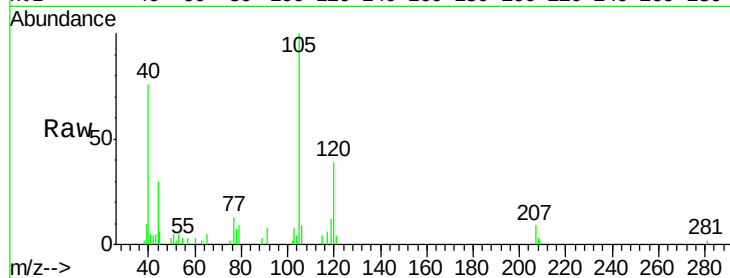
ClientSampleId :

Tot Ion:105 Resp: 14154

Ion Ratio Lower Upper

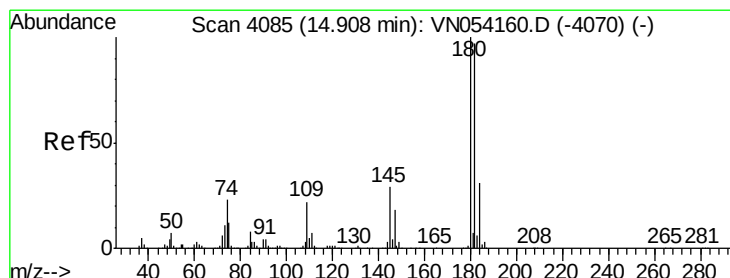
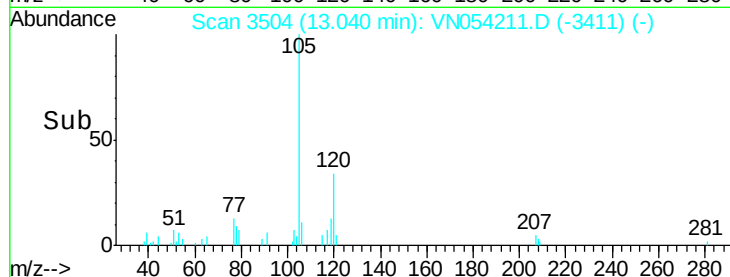
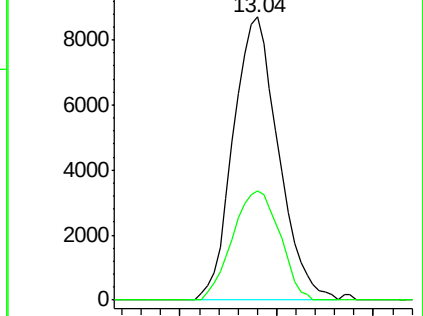
105 100

120 40.2 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 2.602 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

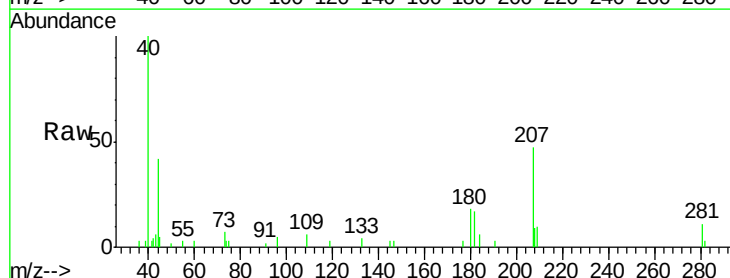
Tgt Ion:180 Resp: 1932

Ion Ratio Lower Upper

180 100

182 92.8 48.0 144.2

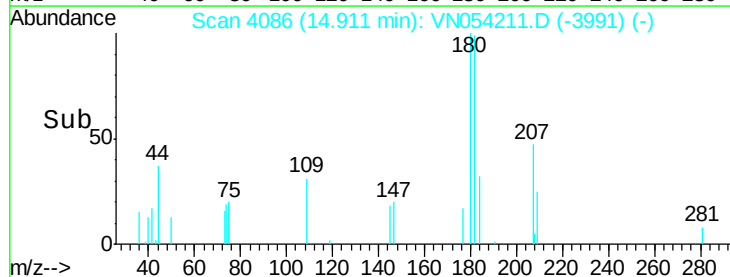
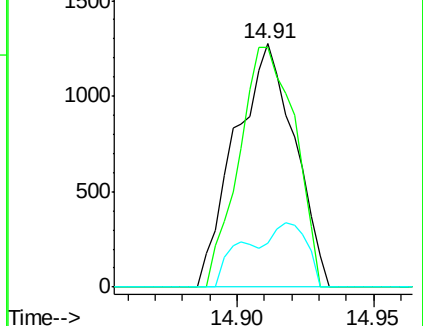
145 16.5 14.2 42.8

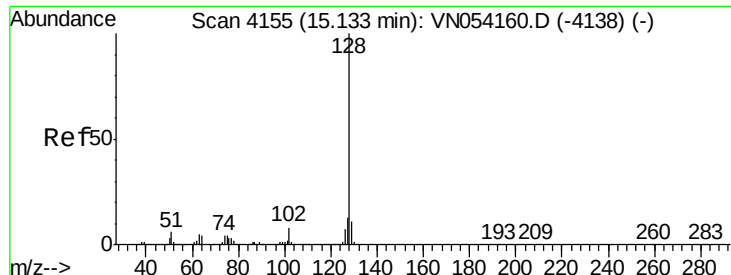


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.582 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054211.D

Acq: 13 Mar 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

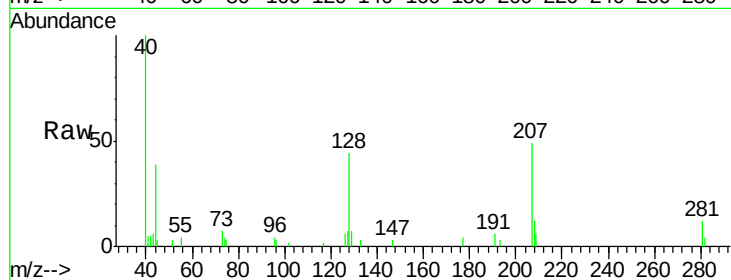
Tot Ion:128 Resp: 5414

Ion Ratio Lower Upper

128 100

127 12.1 10.1 15.1

129 12.7 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

