

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012519\
 Data File : VW008418.D
 Acq On : 25 Jan 2019 18:19
 Operator : SY/VA
 Sample : K1016-05
 Misc : 5.85G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-RO-2-012319

Quant Time: Jan 28 03:56:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 25 11:07:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	80590	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	111447	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	51567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	28781	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	52080	65.78	ug/l	0.00
Spiked Amount			Recovery	=	131.56%	
35) Dibromofluoromethane	7.88	113	44465	68.23	ug/l	0.00
Spiked Amount			Recovery	=	136.46%	
50) Toluene-d8	10.32	98	32010	12.25	ug/l	0.00
Spiked Amount			Recovery	=	24.50%	
62) 4-Bromofluorobenzene	12.62	95	31815	31.67	ug/l	0.00
Spiked Amount			Recovery	=	63.34%	

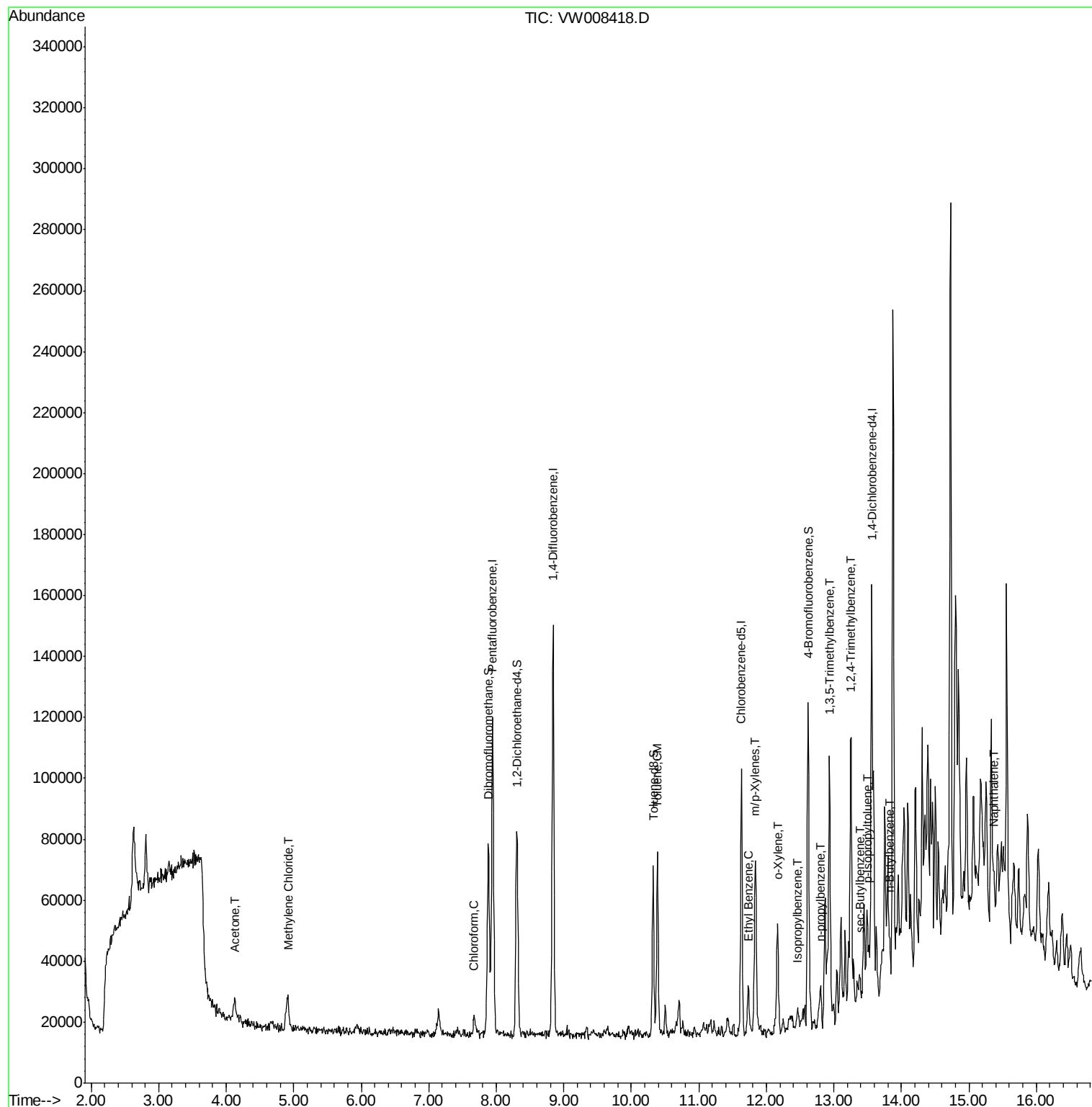
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.13	43	12441	69.975	ug/l	92
20) Methylene Chloride	4.91	84	8595	10.489	ug/l	88
30) Chloroform	7.66	83	5464	3.697	ug/l	98
52) Toluene	10.39	92	27249	14.131	ug/l	95
67) Ethyl Benzene	11.73	91	11471	5.928	ug/l	93
68) m/p-Xylenes	11.84	106	15110	20.126	ug/l	97
69) o-Xylene	12.16	106	9115	12.778	ug/l	98
73) Isopropylbenzene	12.47	105	3011	1.403	ug/l	86
78) n-propylbenzene	12.80	91	9878	3.833	ug/l	91
80) 1,3,5-Trimethylbenzene	12.94	105	15379	8.575	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	49816	27.328	ug/l	97
85) sec-Butylbenzene	13.39	105	5881	2.580	ug/l #	74
86) p-Isopropyltoluene	13.51	119	5924	2.967	ug/l	94
89) n-Butylbenzene	13.83	91	7740	3.948	ug/l #	74
95) Naphthalene	15.37	128	11033	10.515	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

Instrument :

MSVOA_W

ClientSampleId :

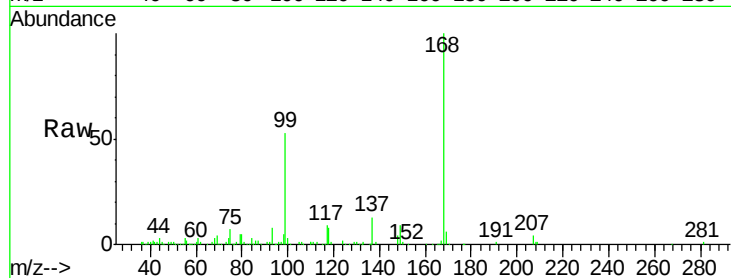
TR-05-RO-2-012319

Tot Ion:168 Resp: 80590

Ion Ratio Lower Upper

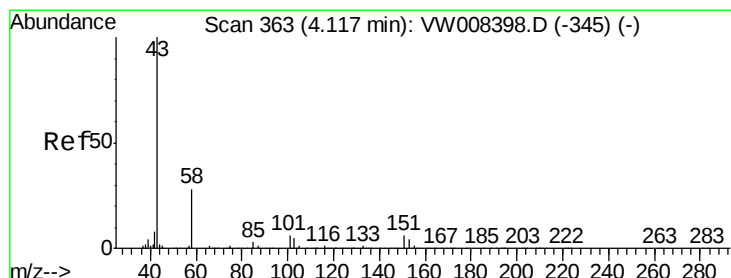
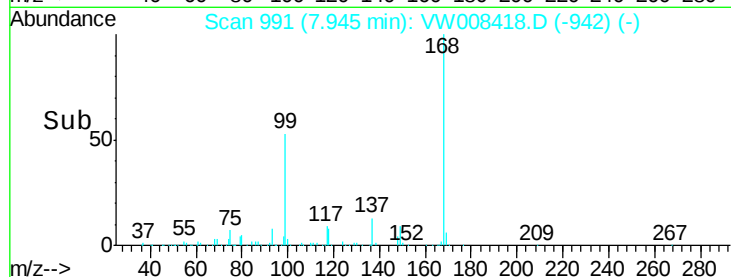
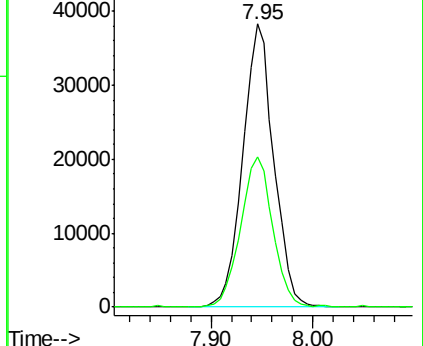
168 100

99 52.9 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 69.975 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008418.D

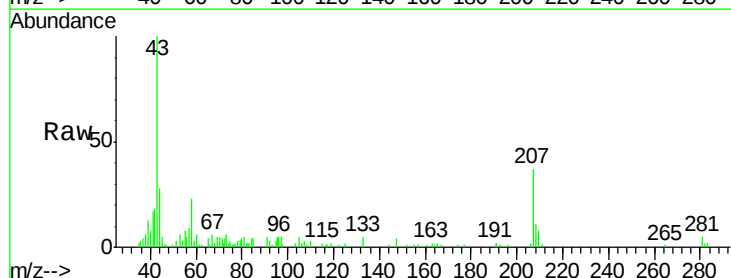
Acq: 25 Jan 2019 18:19

Tgt Ion: 43 Resp: 12441

Ion Ratio Lower Upper

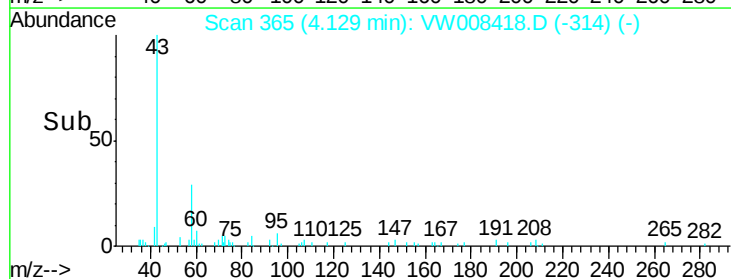
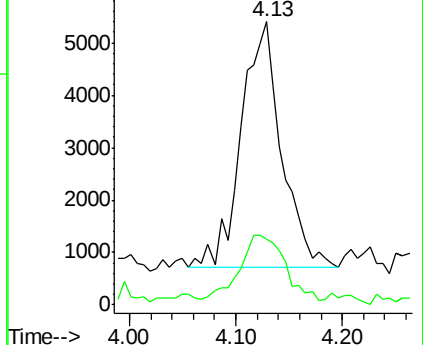
43 100

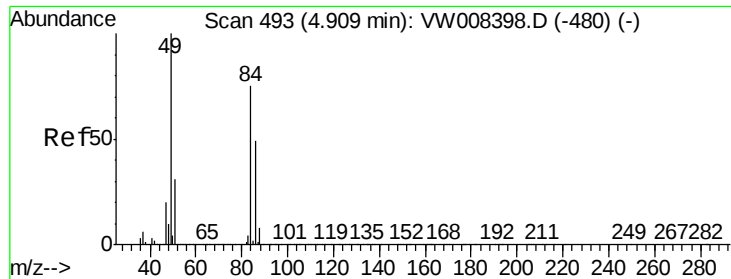
58 24.0 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

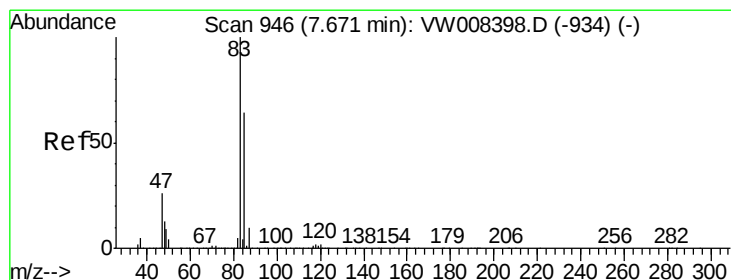
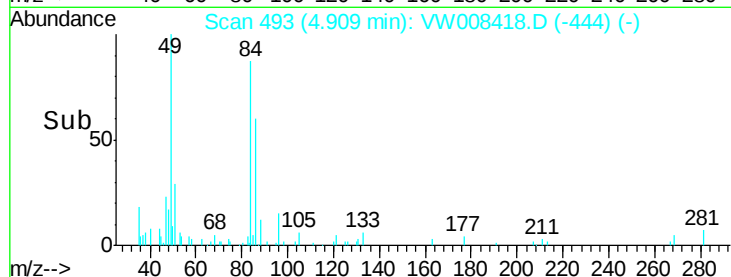
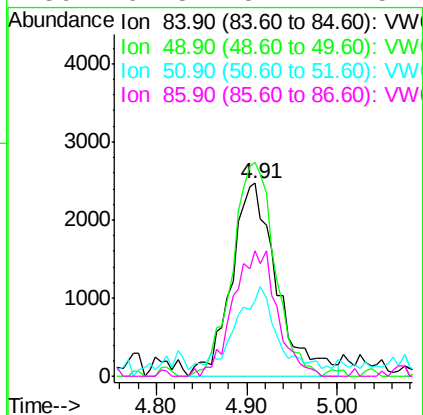
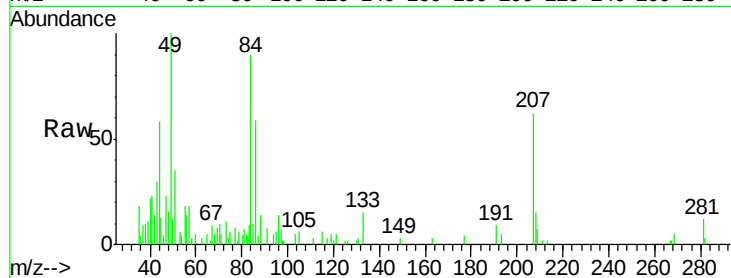




#20
Methvlene Chloride
Concen: 10.489 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW008418.D
Acq: 25 Jan 2019 18:19

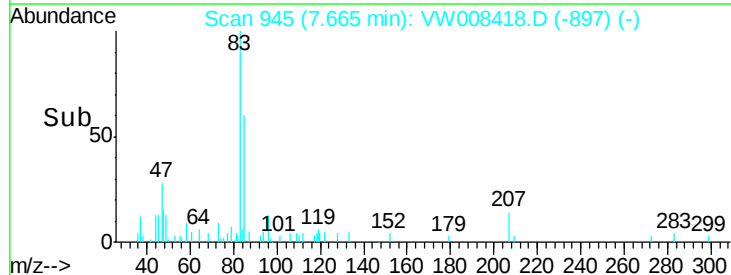
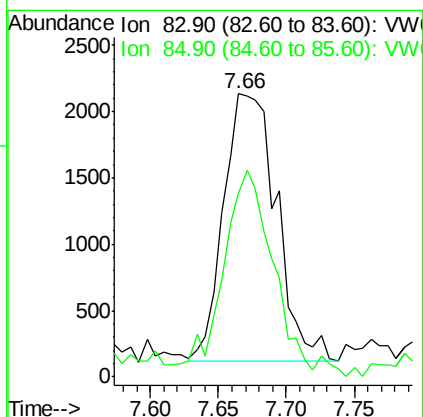
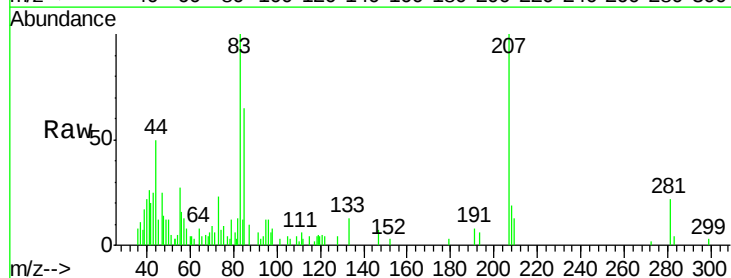
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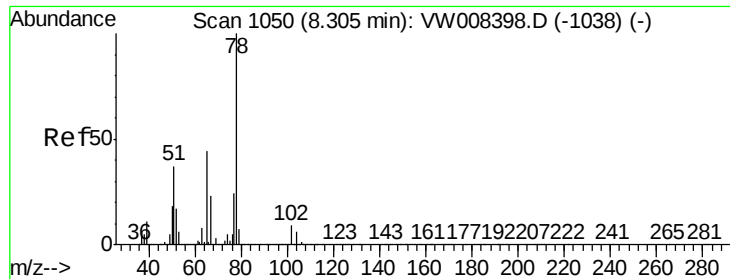
Tot Ion:	84	Resp:	8595
Ion	Ratio	Lower	Upper
84	100		
49	110.7	106.8	160.2
51	35.6	32.9	49.3
86	64.8	52.2	78.2



#30
Chloroform
Concen: 3.697 ug/l
RT: 7.66 min Scan# 945
Delta R.T. -0.01 min
Lab File: VW008418.D
Acq: 25 Jan 2019 18:19

Tgt Ion:	83	Resp:	5464
Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.9	76.3

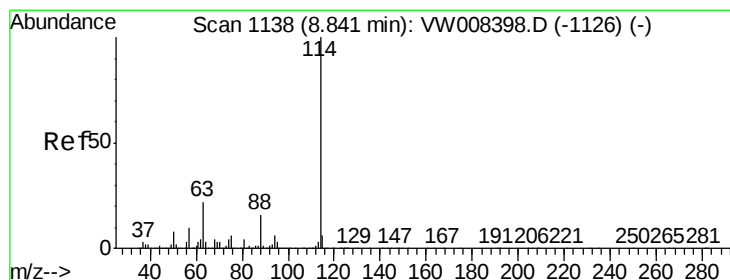
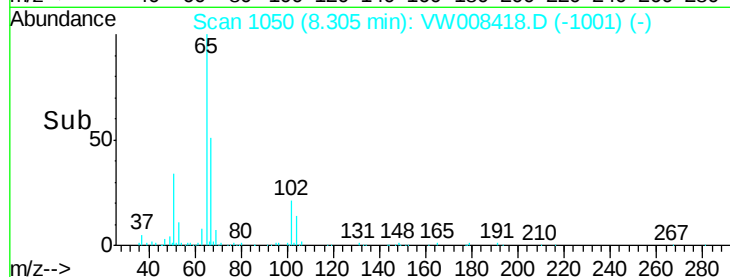
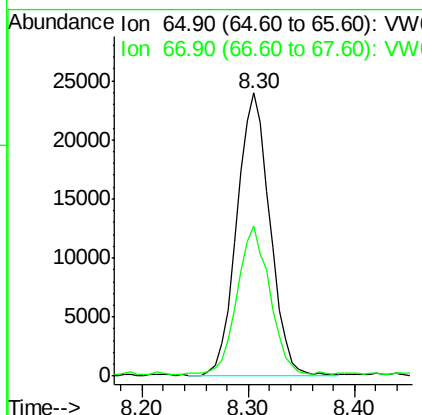
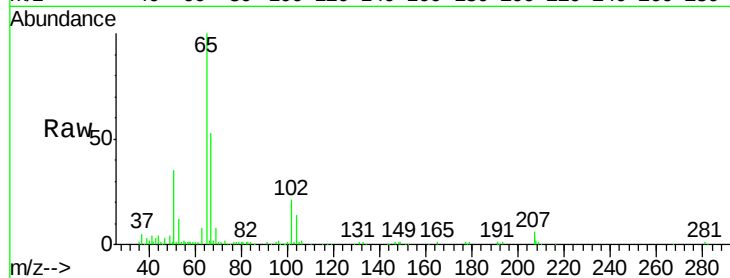




#33
 1,2-Dichloroethane-d4
 Concen: 65.781 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008418.D
 Acq: 25 Jan 2019 18:19

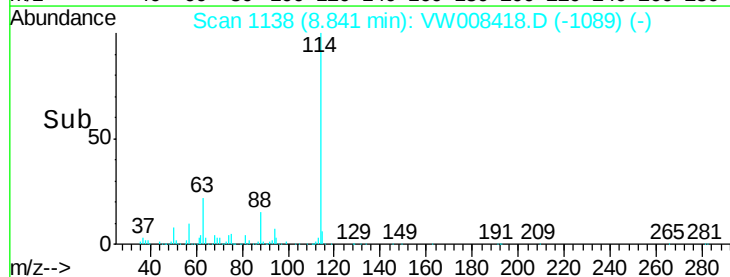
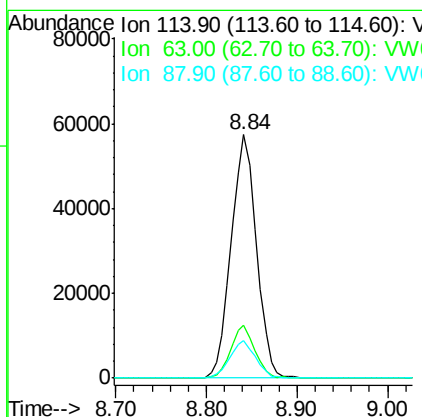
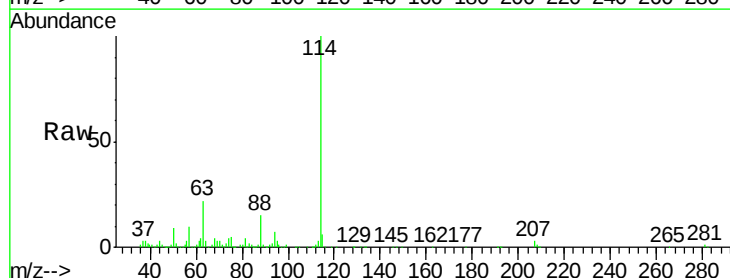
Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-RO-2-012319

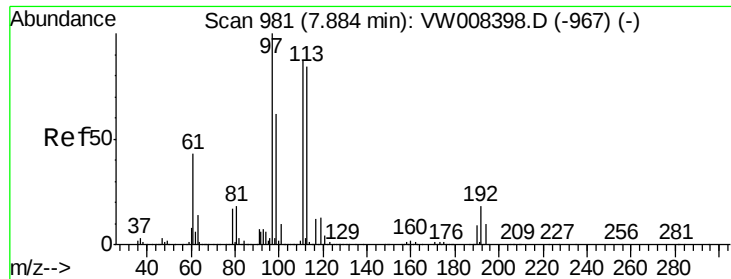
Tot Ion: 65 Resp: 52080
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008418.D
 Acq: 25 Jan 2019 18:19

Tgt Ion: 114 Resp: 111447
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.6
 88 15.4 0.0 31.8

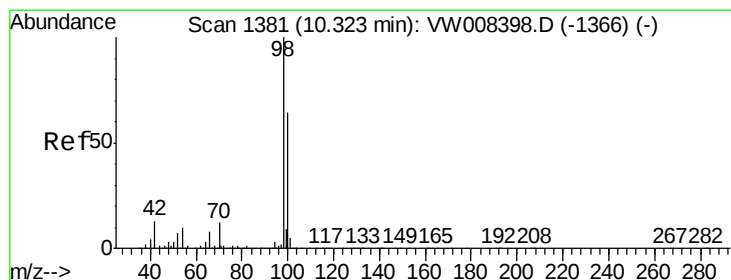
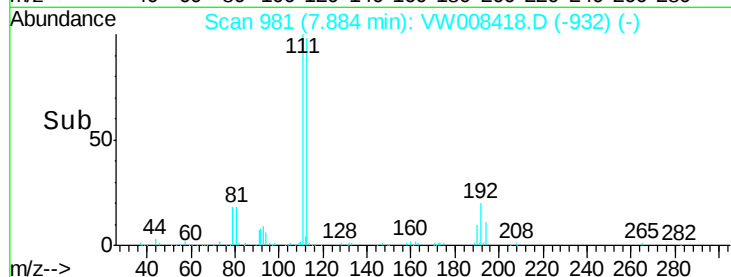
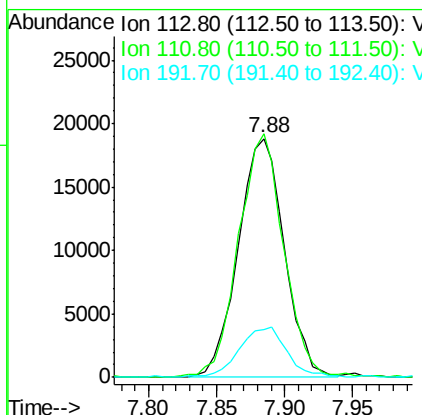
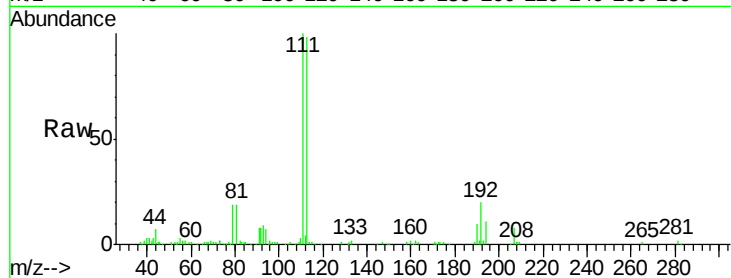




#35
 Dibromofluoromethane
 Concen: 68.233 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008418.D
 Acq: 25 Jan 2019 18:19

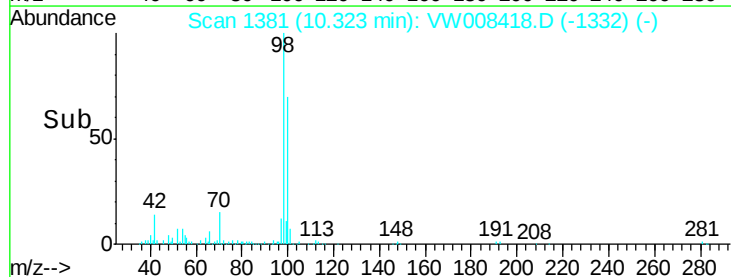
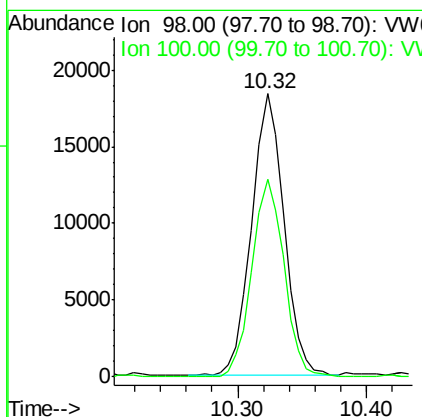
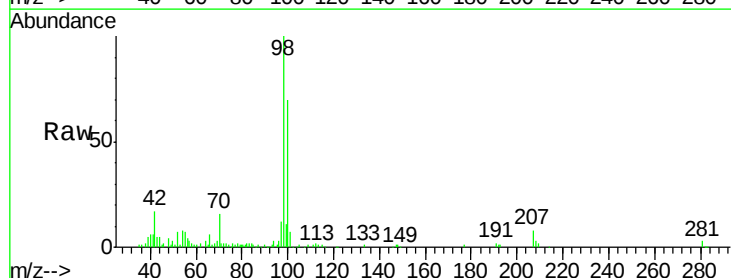
Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-RO-2-012319

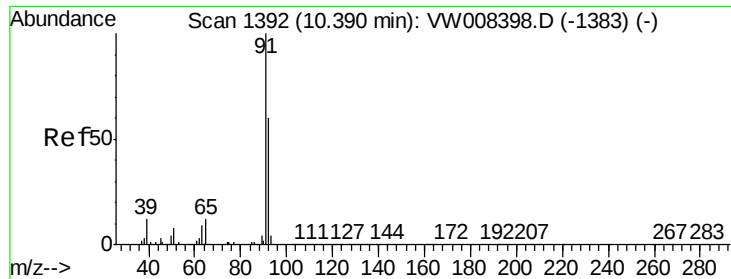
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.0	121.4
192	21.7	16.8	25.2



#50
 Toluene-d8
 Concen: 12.249 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VW008418.D
 Acq: 25 Jan 2019 18:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.3	52.6	78.8





#52

Toluene

Concen: 14.131 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

Instrument :

MSVOA_W

ClientSampleId :

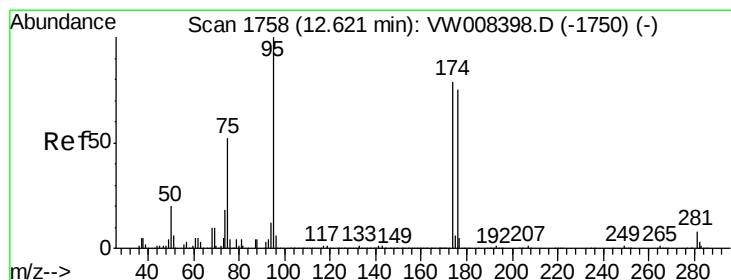
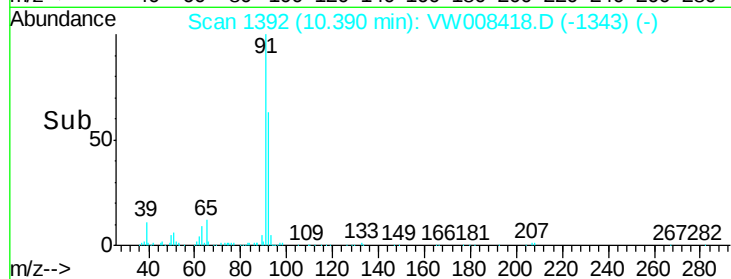
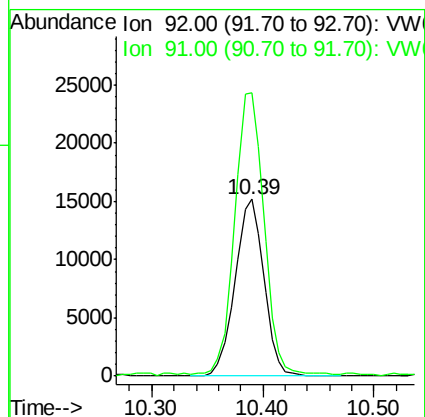
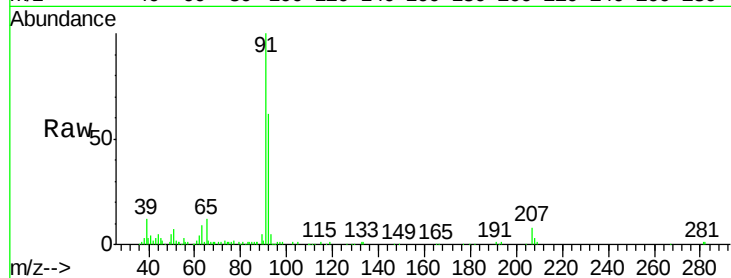
TR-05-RO-2-012319

Tot Ion: 92 Resp: 27249

Ion Ratio Lower Upper

92 100

91 161.9 135.5 203.3



#62

4-Bromofluorobenzene

Concen: 31.673 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

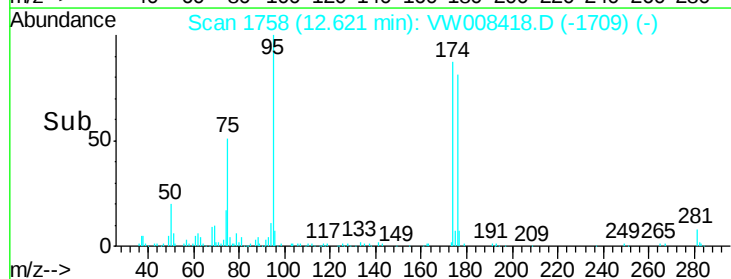
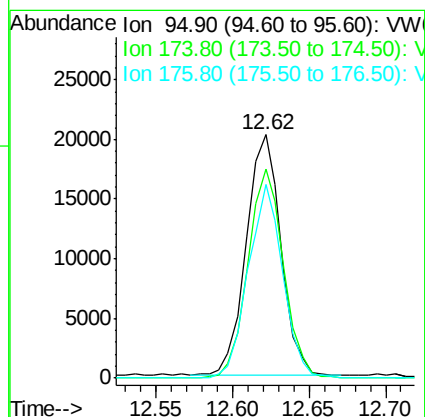
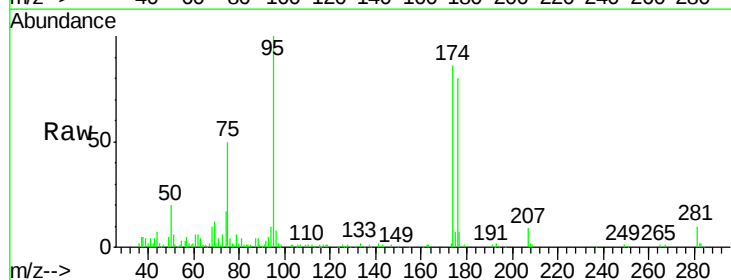
Tgt Ion: 95 Resp: 31815

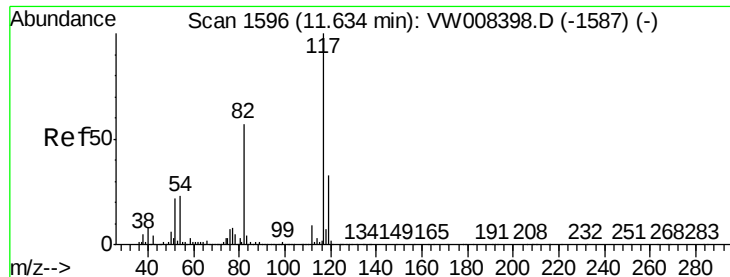
Ion Ratio Lower Upper

95 100

174 88.9 0.0 157.6

176 80.2 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

Instrument :

MSVOA_W

ClientSampleId :

TR-05-RO-2-012319

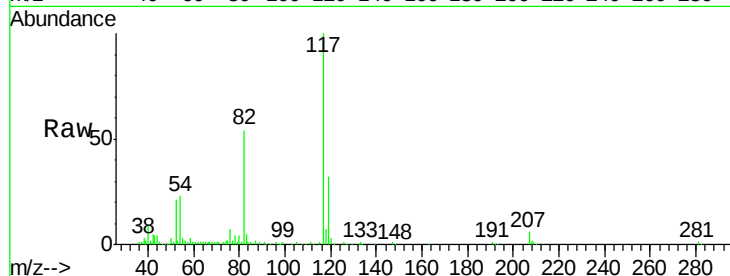
Tot Ion:117 Resp: 51567

Ion Ratio Lower Upper

117 100

82 54.0 45.4 68.0

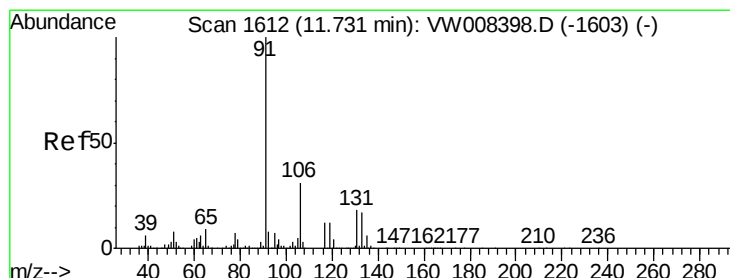
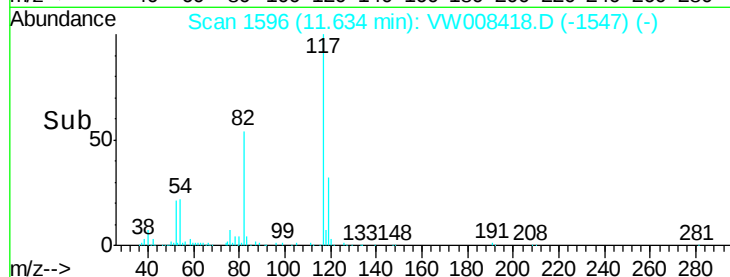
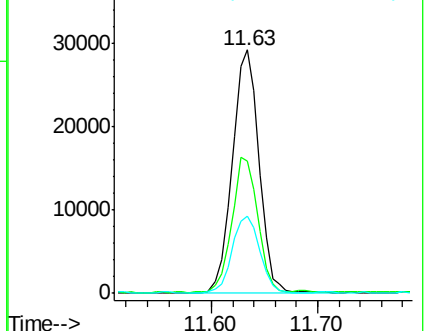
119 31.8 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 5.928 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008418.D

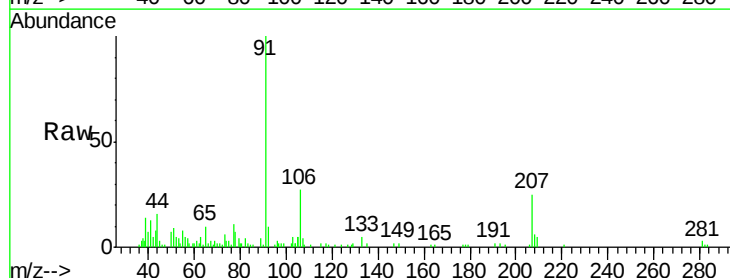
Acq: 25 Jan 2019 18:19

Tgt Ion: 91 Resp: 11471

Ion Ratio Lower Upper

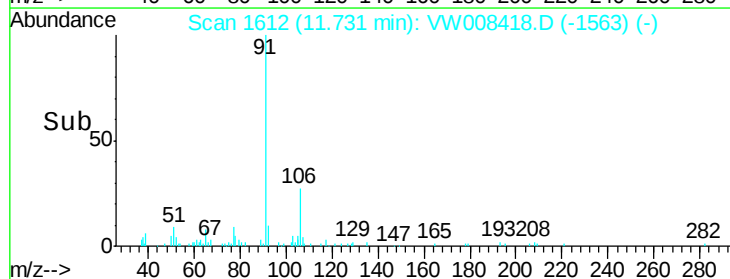
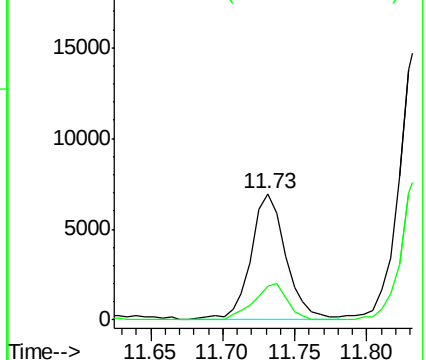
91 100

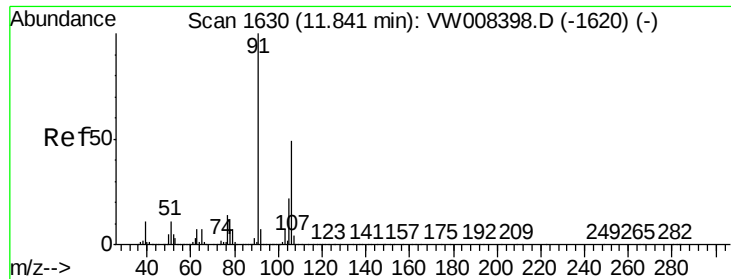
106 26.9 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

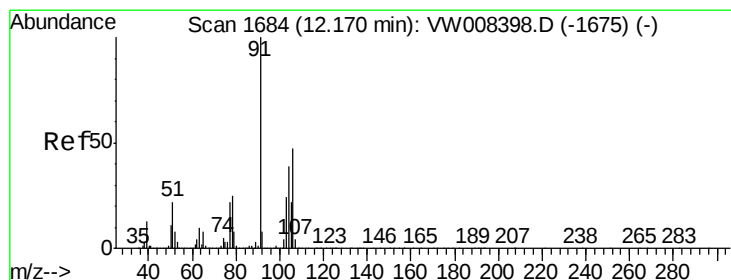
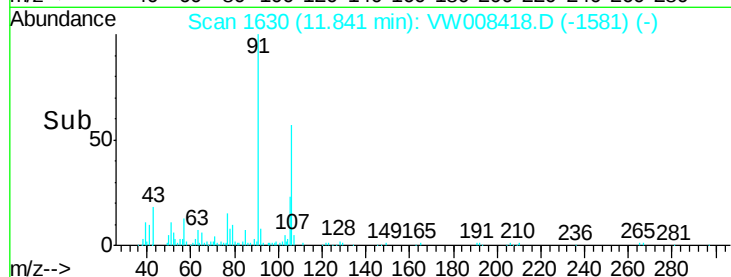
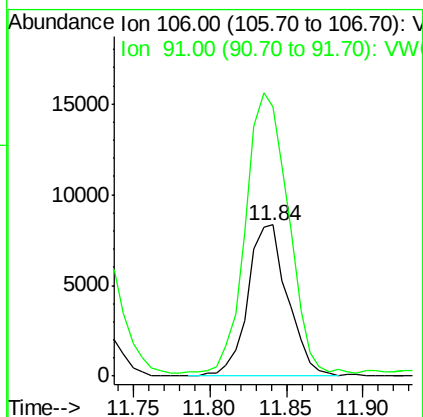
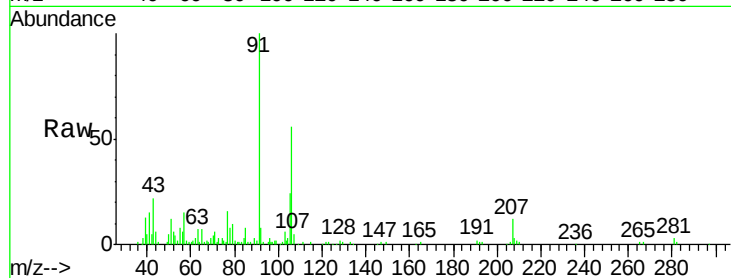




#68
m/p-Xvlenes
Concen: 20.126 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW008418.D
Acq: 25 Jan 2019 18:19

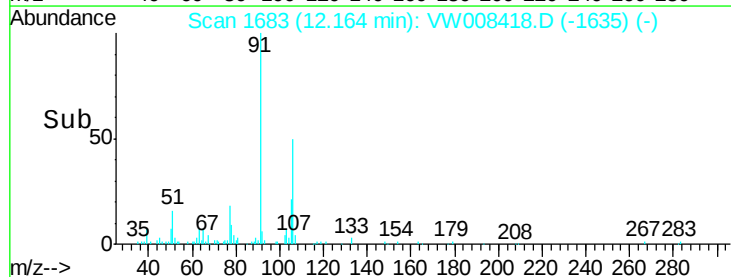
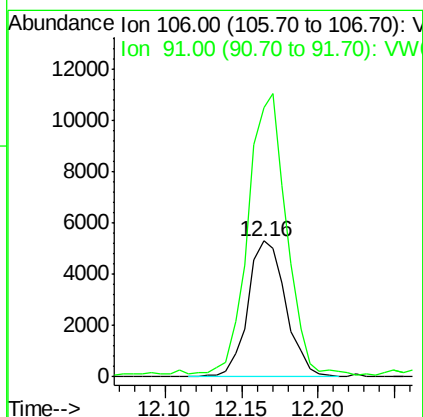
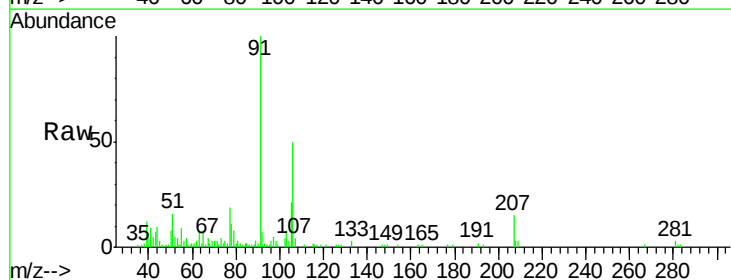
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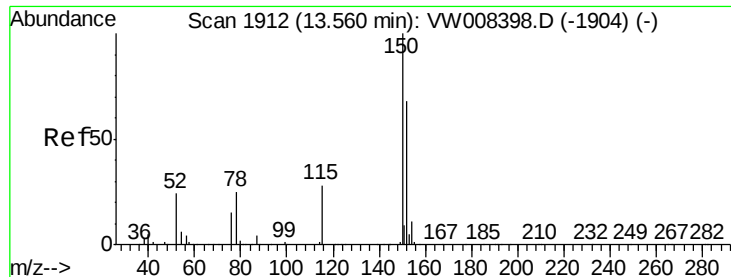
Tot Ion:106 Resp: 15110
Ion Ratio Lower Upper
106 100
91 199.6 162.9 244.3



#69
o-Xylene
Concen: 12.778 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW008418.D
Acq: 25 Jan 2019 18:19

Tgt Ion:106 Resp: 9115
Ion Ratio Lower Upper
106 100
91 211.3 107.5 322.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

Instrument :

MSVOA_W

ClientSampleId :

TR-05-RO-2-012319

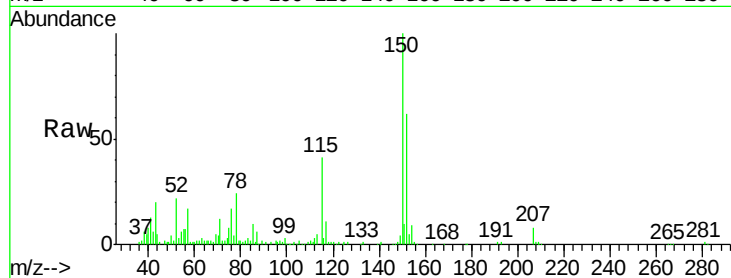
Tot Ion:152 Resp: 28781

Ion Ratio Lower Upper

152 100

115 65.9 29.9 89.7

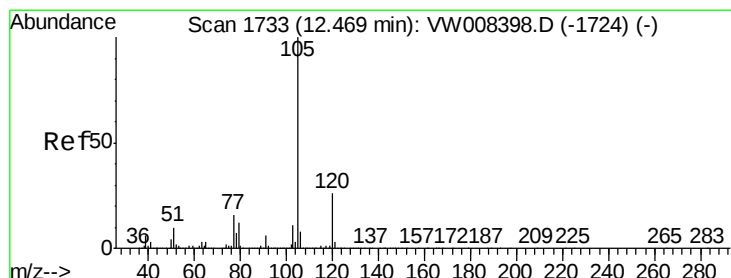
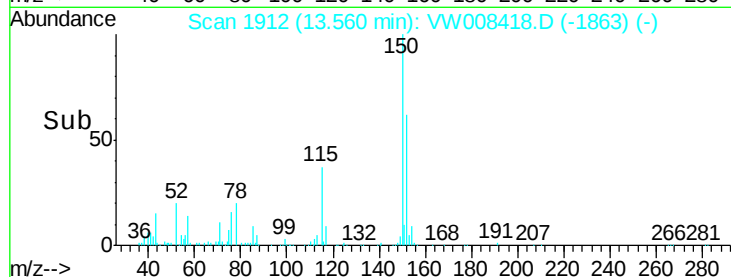
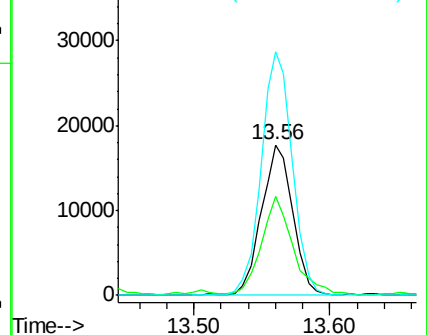
150 159.0 0.0 351.4



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



#73

Isopropylbenzene

Concen: 1.403 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW008418.D

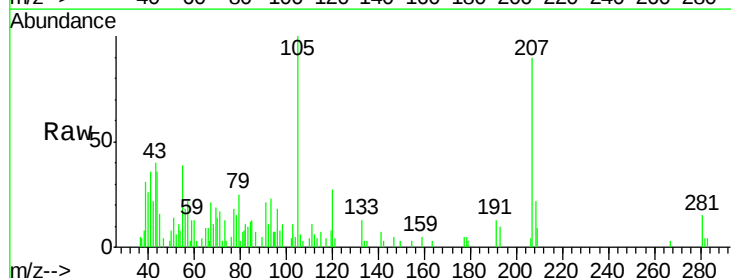
Acq: 25 Jan 2019 18:19

Tgt Ion:105 Resp: 3011

Ion Ratio Lower Upper

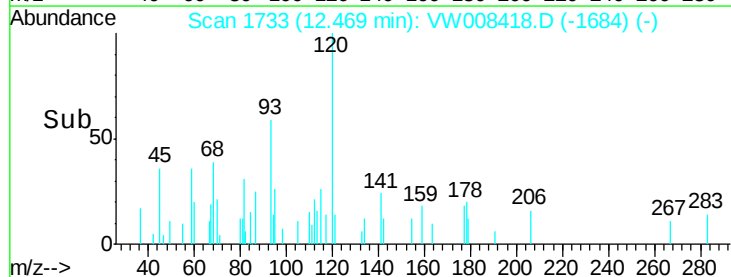
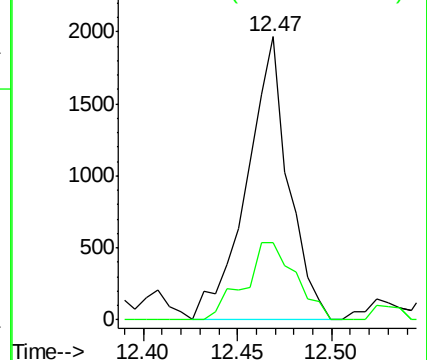
105 100

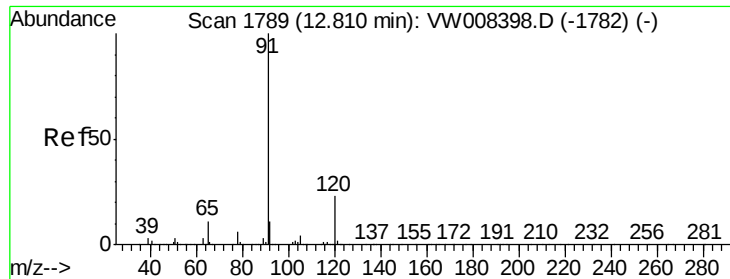
120 33.7 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 3.833 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

Instrument :

MSVOA_W

ClientSampleId :

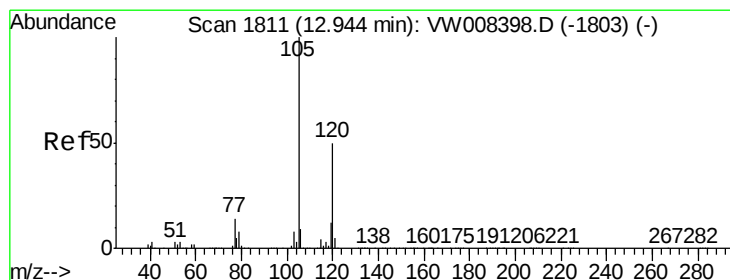
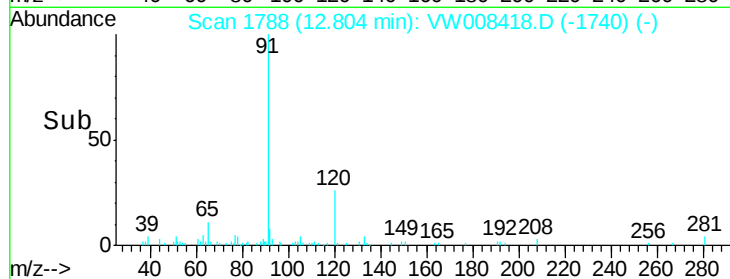
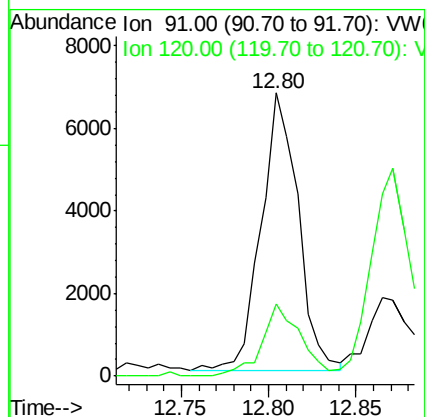
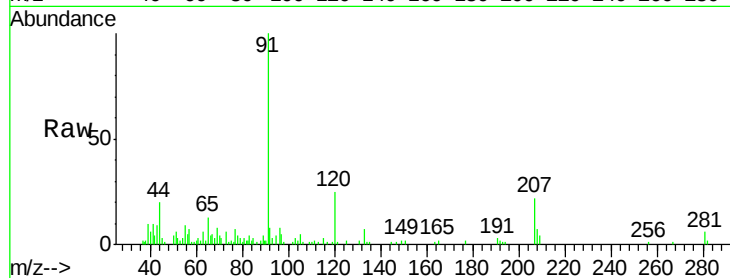
TR-05-RO-2-012319

Tot Ion: 91 Resp: 9878

Ion Ratio Lower Upper

91 100

120 27.2 11.4 34.1



#80

1,3,5-Trimethylbenzene

Concen: 8.575 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008418.D

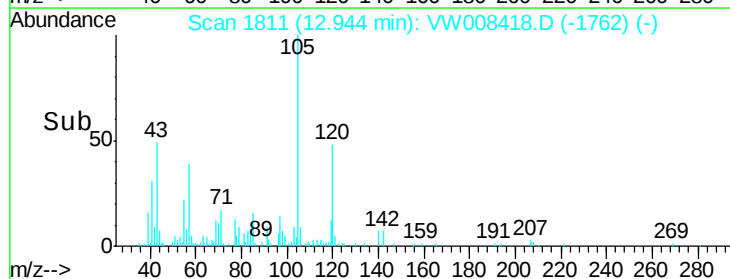
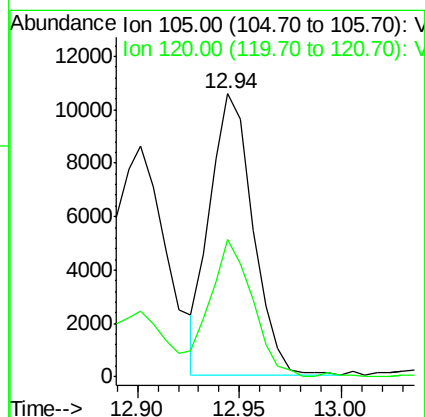
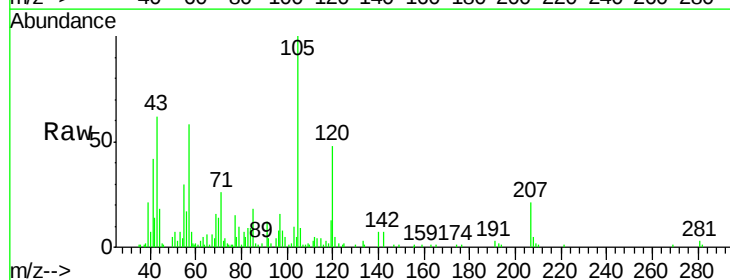
Acq: 25 Jan 2019 18:19

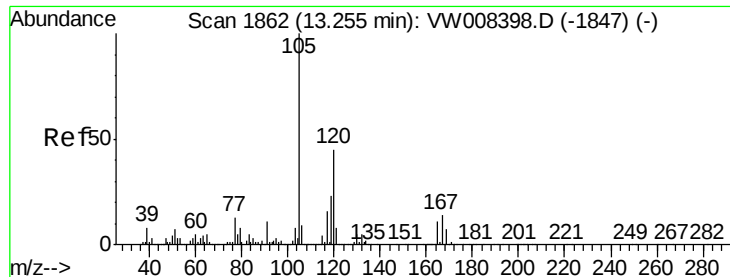
Tgt Ion: 105 Resp: 15379

Ion Ratio Lower Upper

105 100

120 49.6 24.6 73.8

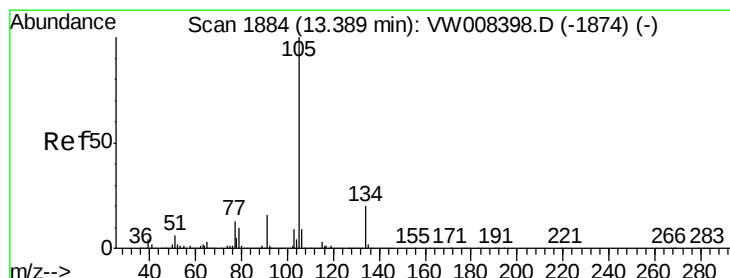
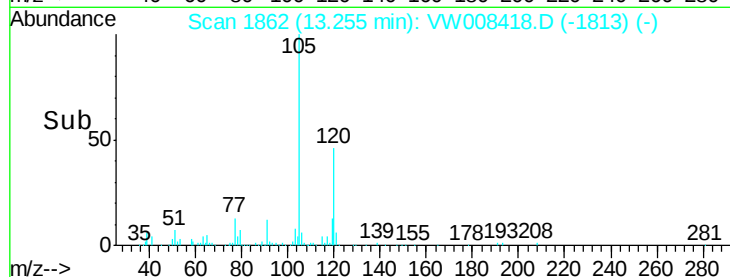
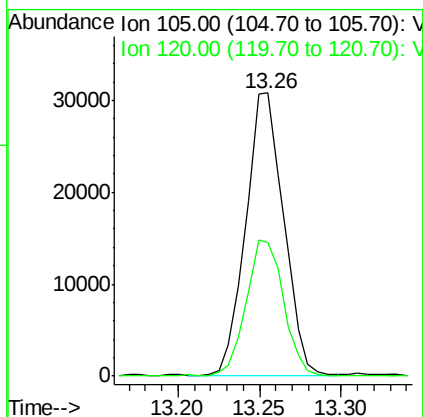
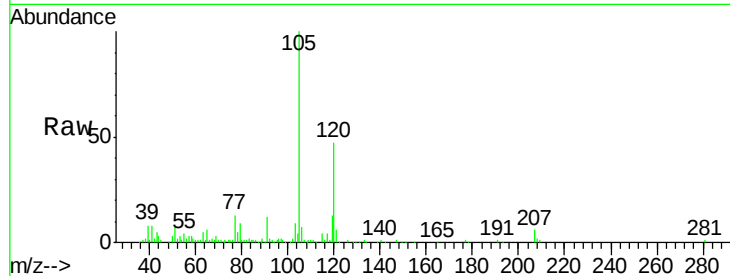




#84
 1,2,4-Trimethylbenzene
 Concen: 27.328 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW008418.D
 Acq: 25 Jan 2019 18:19

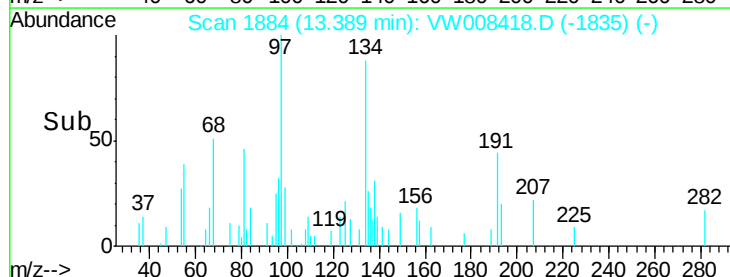
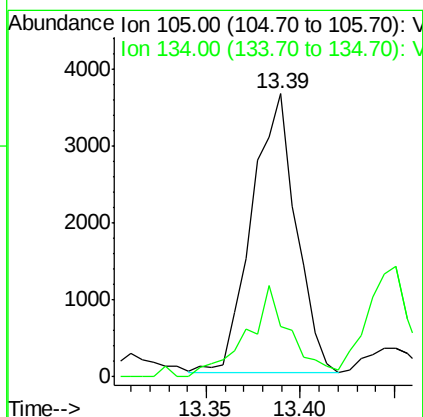
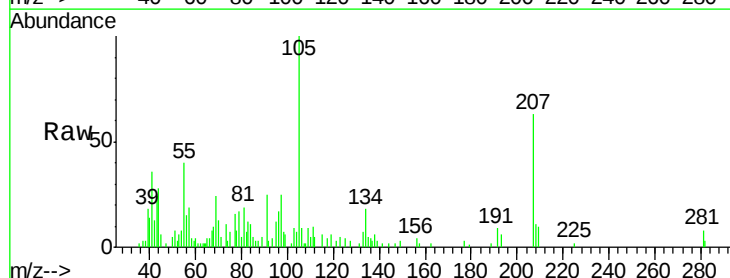
Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-RO-2-012319

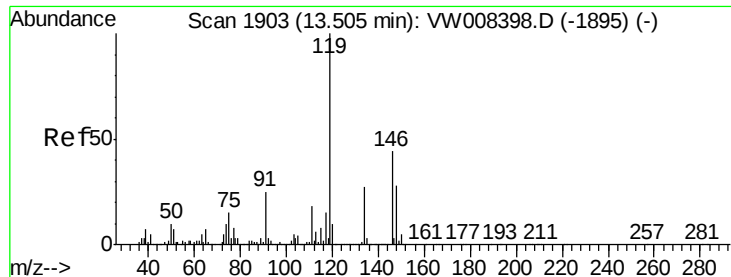
Tot Ion:105 Resp: 49816
 Ion Ratio Lower Upper
 105 100
 120 47.8 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 2.580 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. 0.00 min
 Lab File: VW008418.D
 Acq: 25 Jan 2019 18:19

Tgt Ion:105 Resp: 5881
 Ion Ratio Lower Upper
 105 100
 134 32.3 10.2 30.6#





#86

p-Isopropyltoluene

Concen: 2.967 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

Instrument :

MSVOA_W

ClientSampleId :

TR-05-RO-2-012319

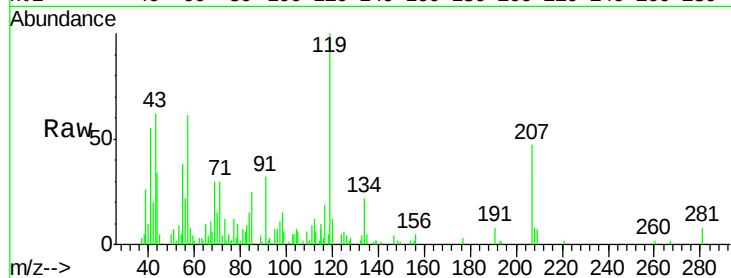
Tot Ion: 119 Resp: 5924

Ion Ratio Lower Upper

119 100

134 29.8 13.4 40.2

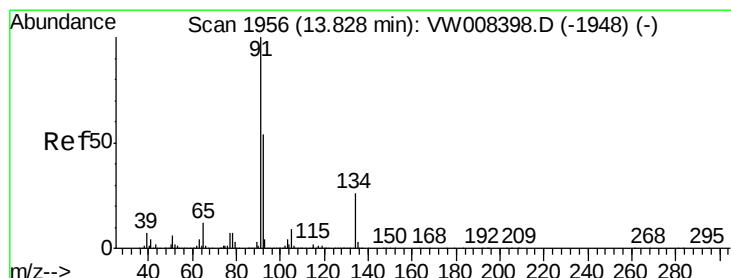
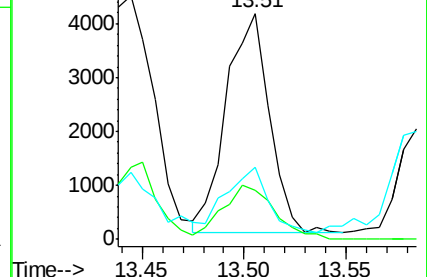
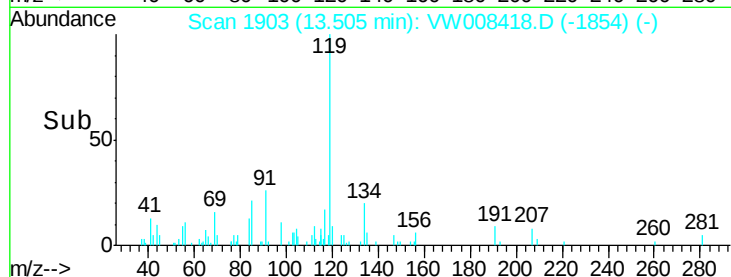
91 28.3 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 3.948 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

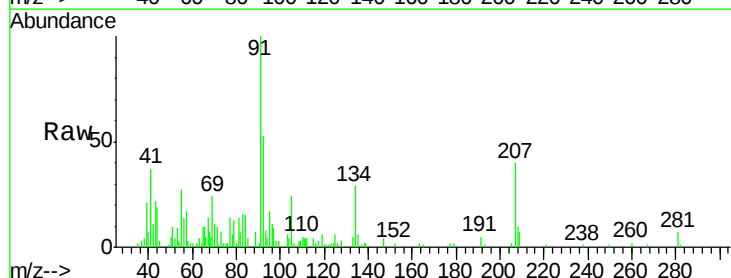
Tgt Ion: 91 Resp: 7740

Ion Ratio Lower Upper

91 100

92 65.4 27.4 82.2

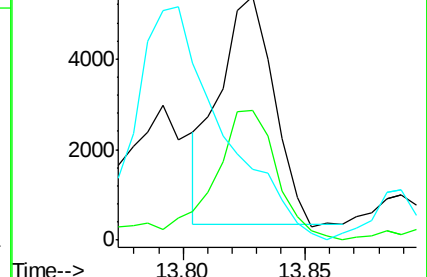
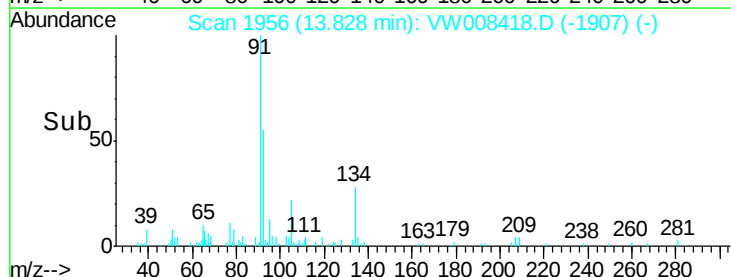
134 0.0 13.0 39.0#

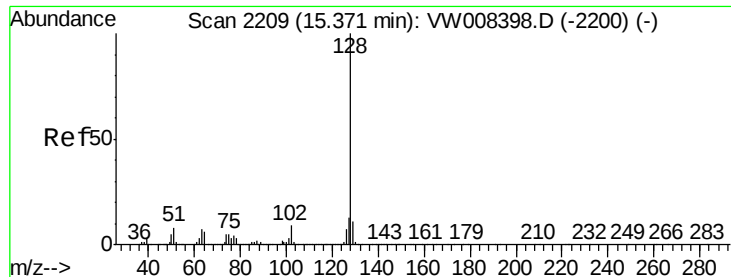


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 10.515 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008418.D

Acq: 25 Jan 2019 18:19

Instrument :

MSVOA_W

ClientSampleId :

TR-05-RO-2-012319

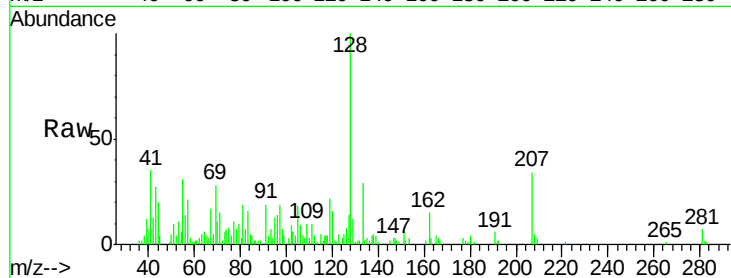
Tot Ion:128 Resp: 11033

Ion Ratio Lower Upper

128 100

127 11.8 10.6 15.8

129 12.1 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

