

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051519\
 Data File : VF062610.D
 Acq On : 15 May 2019 15:52
 Operator : FY/SY
 Sample : K2801-07RE
 Misc : 4.13g/5mL/MSVOA_F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RT-3456

Quant Time: May 15 16:20:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051419S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 05:06:28 2019
 Response via : Initial Calibration

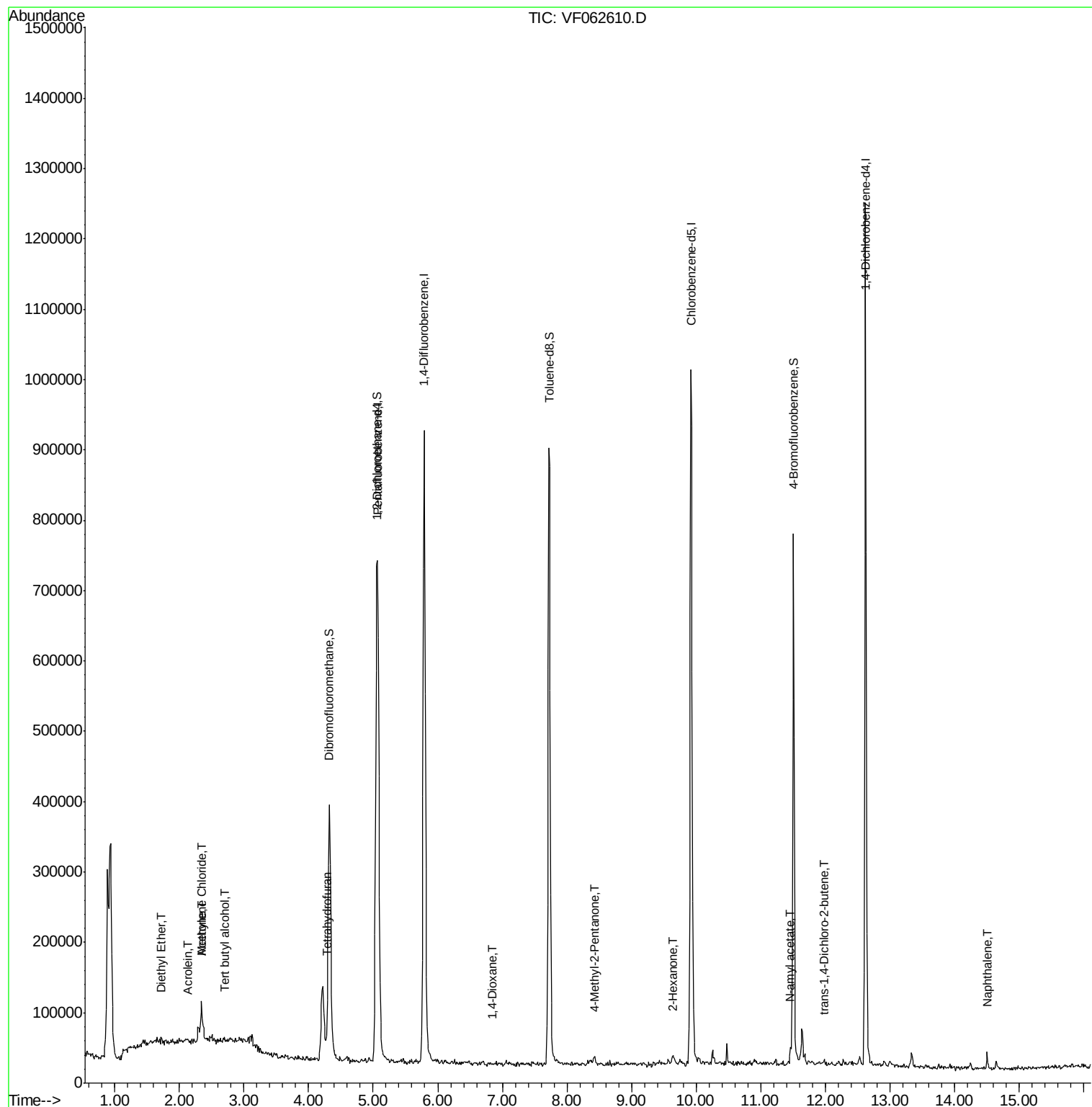
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	654578	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.79	114	1115219	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	779754	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	315029	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	209365	42.34	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	84.68%	
35) Dibromofluoromethane	4.33	113	364806	43.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.90%	
50) Toluene-d8	7.72	98	791088	40.45	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	80.90%	
62) 4-Bromofluorobenzene	11.50	95	268476	39.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	78.60%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.11	85	306	Below Cal		76
8) Diethyl Ether	1.72	74	2354	1.032 ug/l #		5
11) Tert butyl alcohol	2.71	59	1247	4.188 ug/l #		25
13) Acrolein	2.13	56	393	1.992 ug/l		88
16) Acetone	2.35	43	3355	3.344 ug/l #		74
17) Carbon Disulfide	1.93	76	864	Below Cal #		1
18) Methyl Acetate	2.47	43	1270	Below Cal #		85
20) Methylene Chloride	2.35	84	25553	2.361 ug/l		91
29) Tetrahydrofuran	4.28	42	1374	1.431 ug/l #		1
49) 1,4-Dioxane	6.85	88	413	12.202 ug/l #		1
51) 4-Methyl-2-Pentanone	8.42	43	12267	3.568 ug/l #		70
59) 2-Hexanone	9.64	43	13704	6.035 ug/l		74
74) N-amyl acetate	11.46	43	14186	2.758 ug/l #		93
81) trans-1,4-Dichloro-2-buten	11.97	75	1271	1.072 ug/l #		50
95) Naphthalene	14.50	128	16324	1.736 ug/l #		92

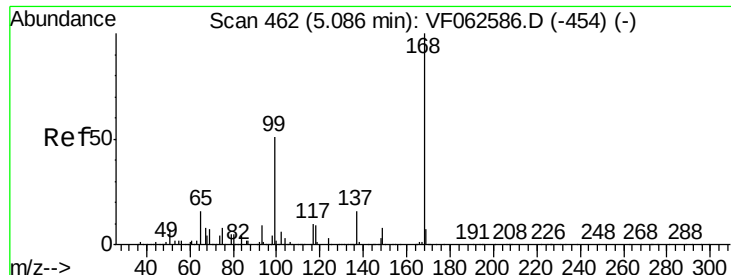
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.02 min

Lab File: VF062610.D

Acq: 15 May 2019 15:52

Instrument :

MSVOA_F

ClientSampleId :

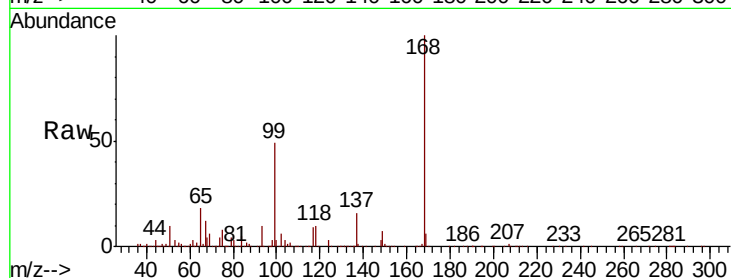
RT-3456

Tgt Ion:168 Resp: 654578

Ion Ratio Lower Upper

168 100

99 49.0 41.0 61.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

250000

200000

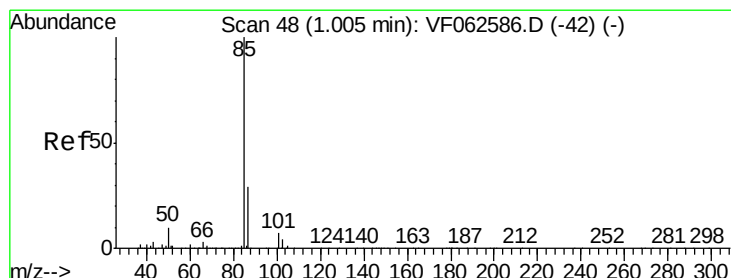
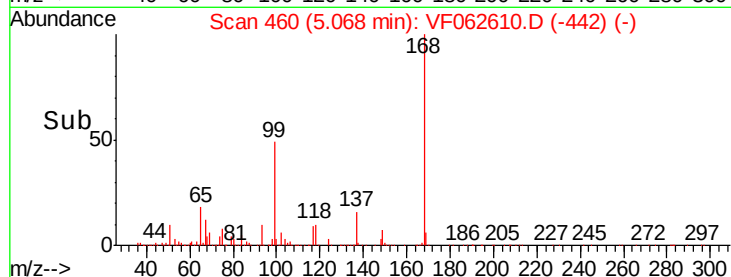
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.11 min Scan# 58

Delta R.T. 0.10 min

Lab File: VF062610.D

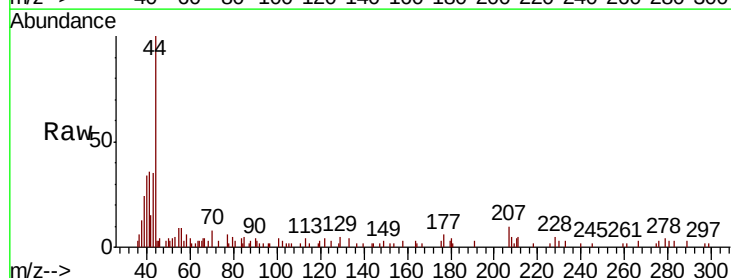
Acq: 15 May 2019 15:52

Tgt Ion: 85 Resp: 306

Ion Ratio Lower Upper

85 100

87 41.9 14.6 43.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.11

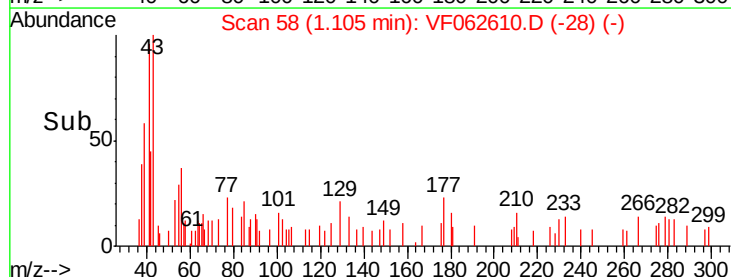
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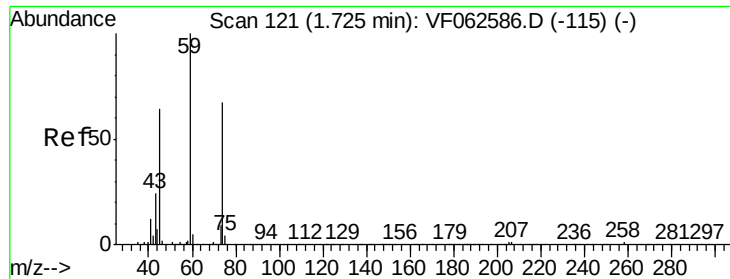
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.032 ug/l

RT: 1.72 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF062610.D

Acq: 15 May 2019 15:52

Instrument :

MSVOA_F

ClientSampleId :

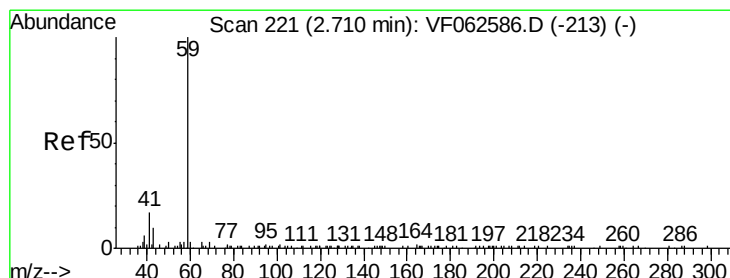
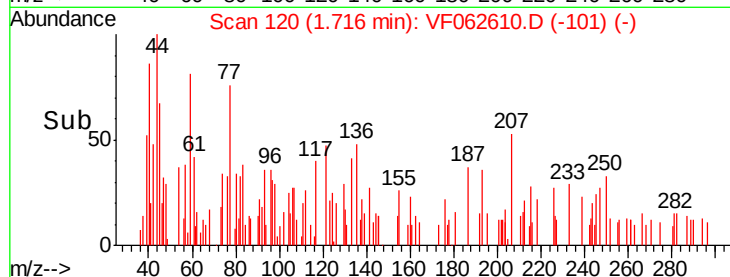
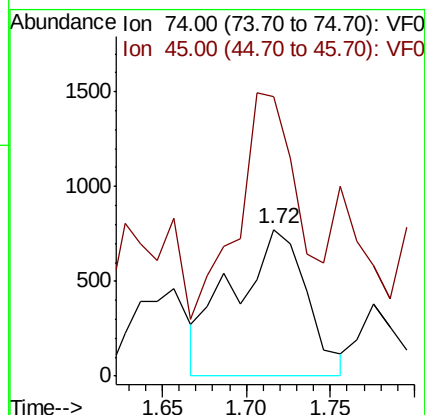
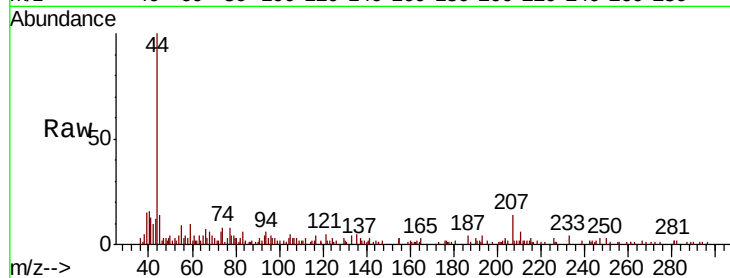
RT-3456

Tgt Ion: 74 Resp: 2354

Ion Ratio Lower Upper

74 100

45 190.9 48.6 145.8#



#11

Tert butyl alcohol

Concen: 4.188 ug/l

RT: 2.71 min Scan# 221

Delta R.T. 0.00 min

Lab File: VF062610.D

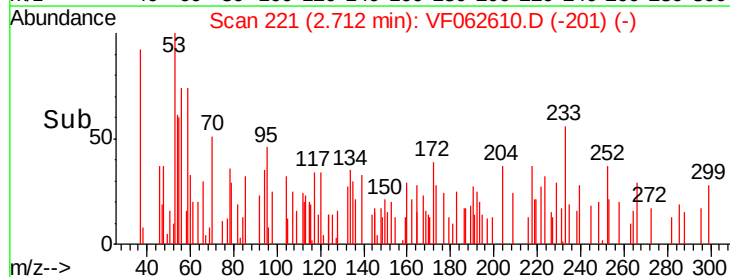
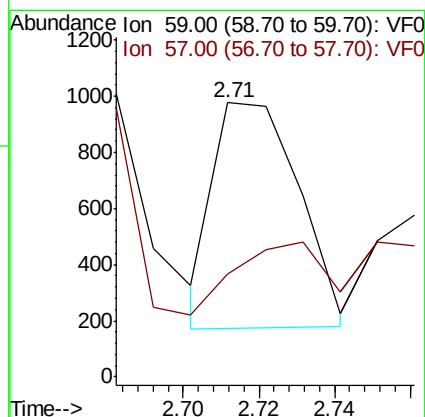
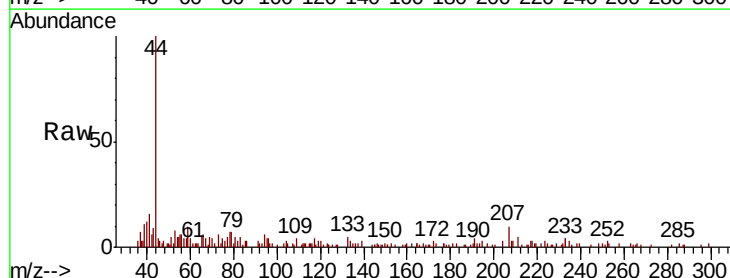
Acq: 15 May 2019 15:52

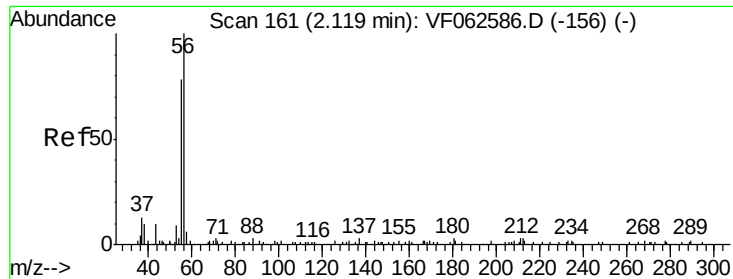
Tgt Ion: 59 Resp: 1247

Ion Ratio Lower Upper

59 100

57 37.7 8.0 12.0#

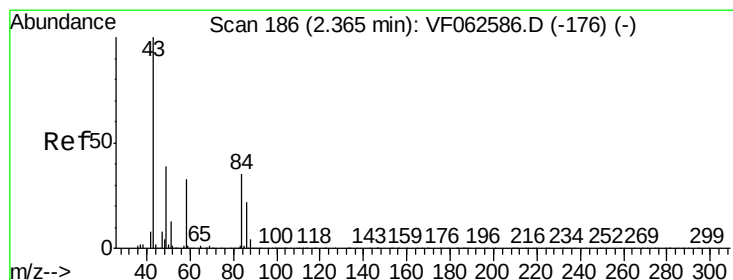
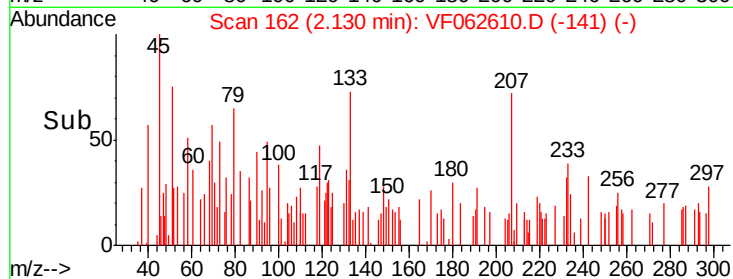
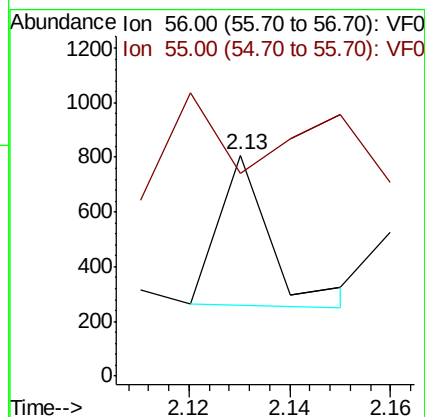
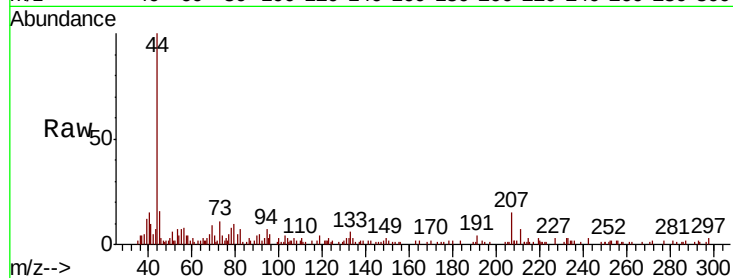




#13
Acrolein
Concen: 1.992 ug/l
RT: 2.13 min Scan# 162
Delta R.T. 0.01 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

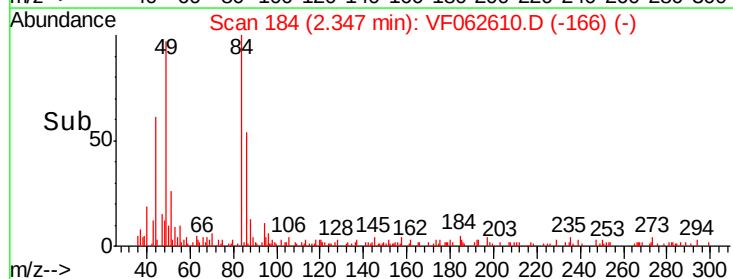
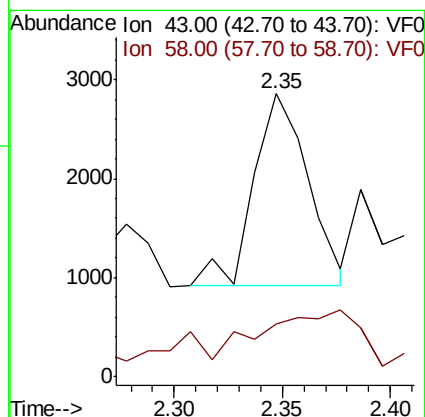
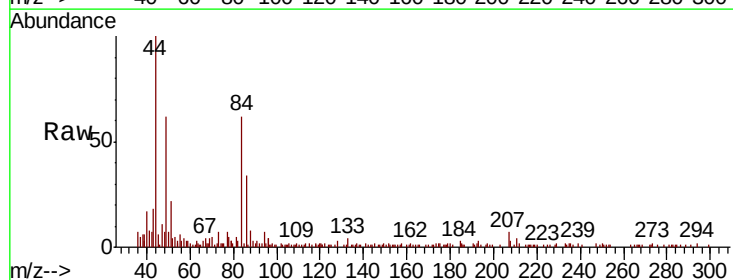
Instrument :
MSVOA_F
ClientSampleId :
RT-3456

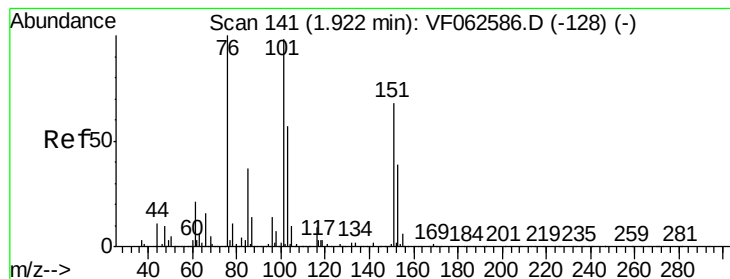
Tgt Ion: 56 Resp: 393
Ion Ratio Lower Upper
56 100
55 91.6 64.6 96.8



#16
Acetone
Concen: 3.344 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.02 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

Tgt Ion: 43 Resp: 3355
Ion Ratio Lower Upper
43 100
58 18.6 26.7 40.1#





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.93 min Scan# 142

Delta R.T. 0.01 min

Lab File: VF062610.D

Acq: 15 May 2019 15:52

Instrument :

MSVOA_F

ClientSampled :

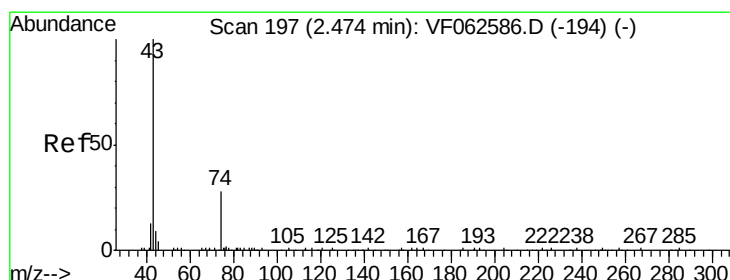
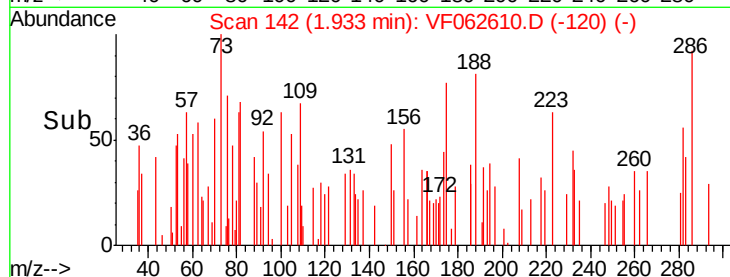
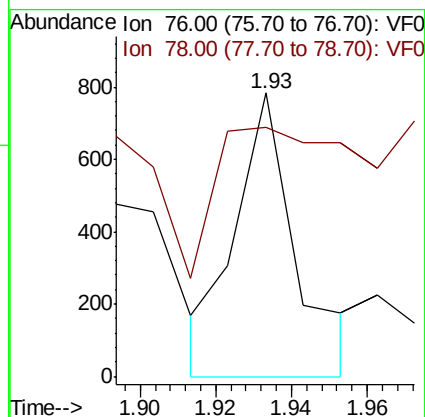
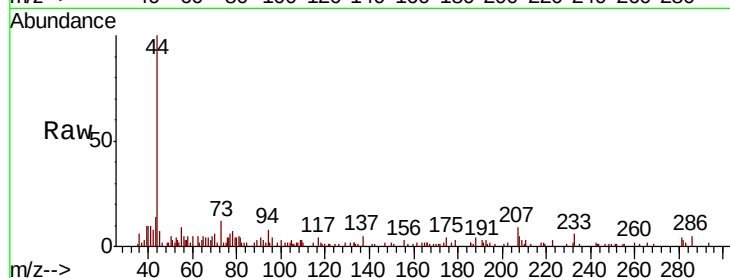
RT-3456

Tgt Ion: 76 Resp: 864

Ion Ratio Lower Upper

76 100

78 87.7 9.0 13.4#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.47 min Scan# 196

Delta R.T. -0.01 min

Lab File: VF062610.D

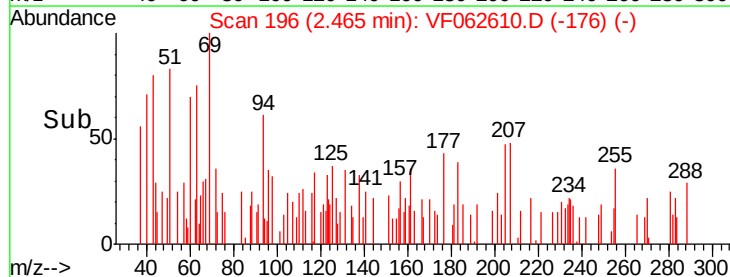
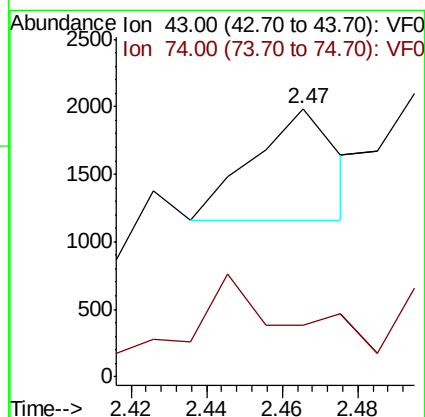
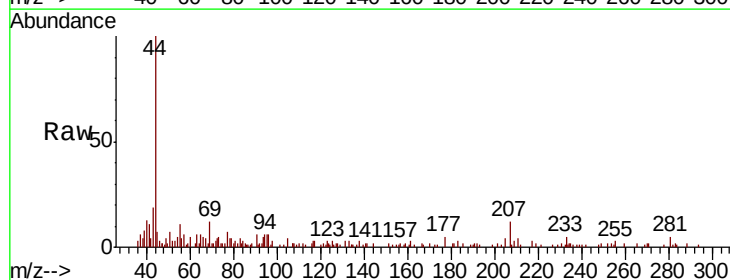
Acq: 15 May 2019 15:52

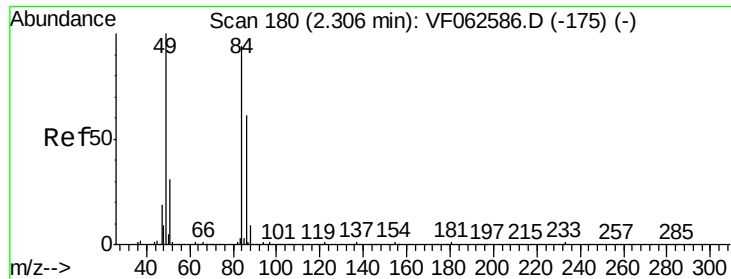
Tgt Ion: 43 Resp: 1270

Ion Ratio Lower Upper

43 100

74 19.2 21.4 32.0#

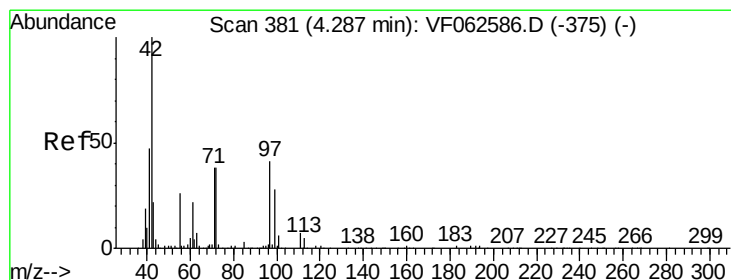
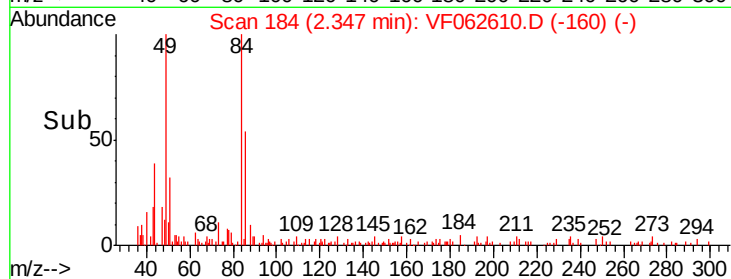
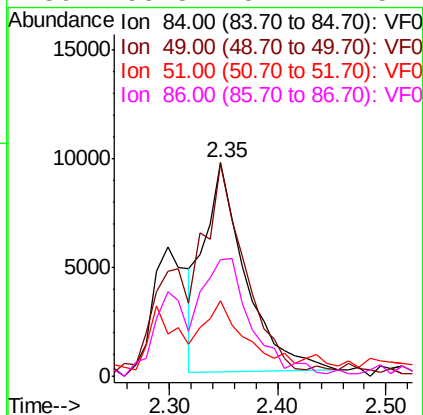
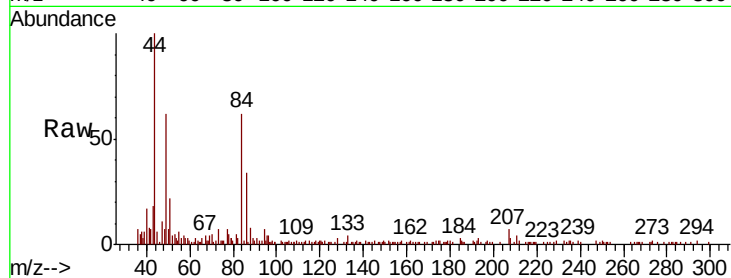




#20
Methylene Chloride
Concen: 2.361 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.04 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

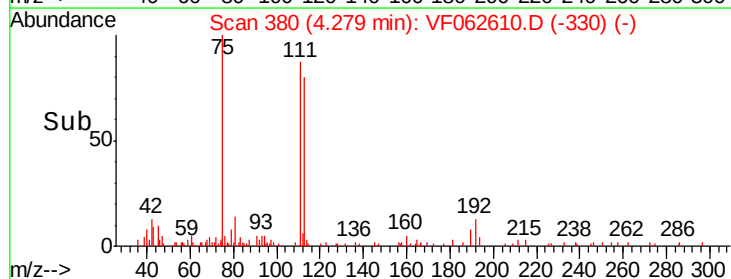
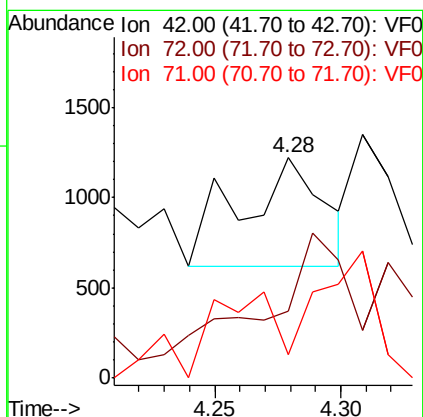
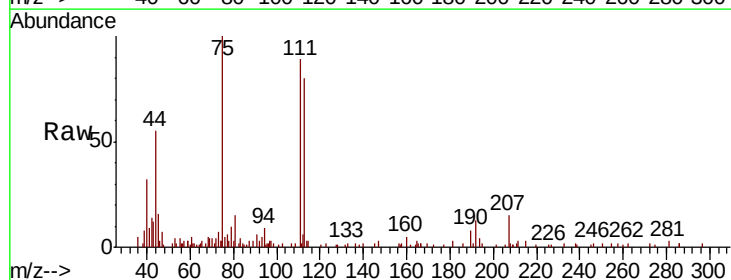
Instrument :
MSVOA_F
ClientSampleId :
RT-3456

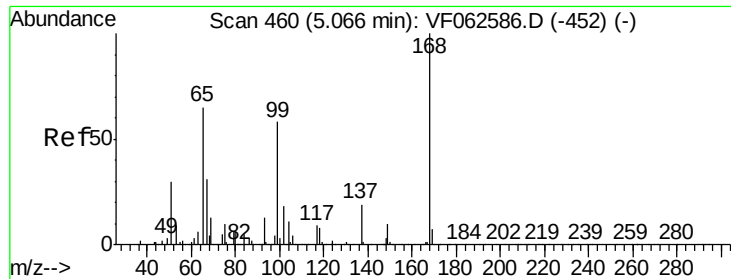
Tgt Ion:	84	Resp:	25553
Ion	Ratio	Lower	Upper
84	100		
49	99.3	86.9	130.3
51	35.5	27.0	40.6
86	55.8	52.2	78.2



#29
Tetrahydrofuran
Concen: 1.431 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.01 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

Tgt Ion:	42	Resp:	1374
Ion	Ratio	Lower	Upper
42	100		
72	195.8	34.0	51.0#
71	75.8	32.8	49.2#

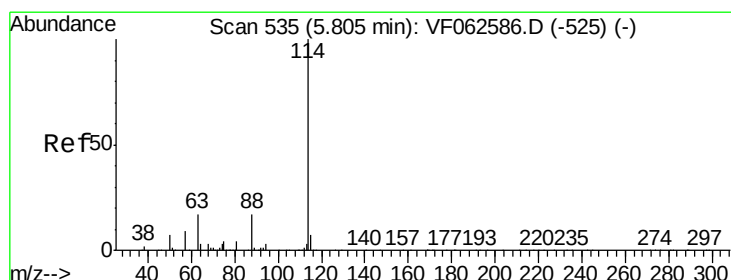
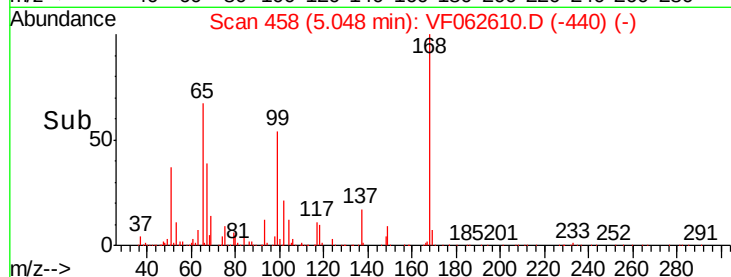
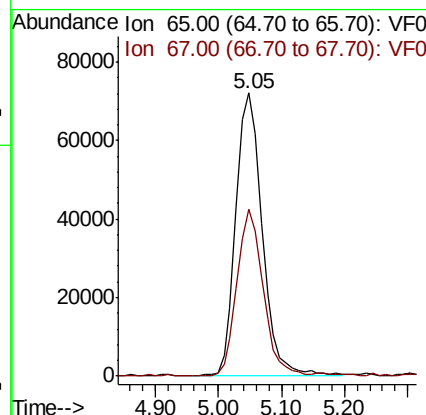
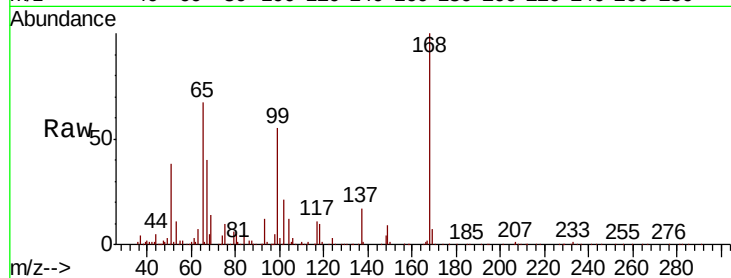




#33
 1,2-Dichloroethane-d4
 Concen: 42.339 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. -0.02 min
 Lab File: VF062610.D
 Acq: 15 May 2019 15:52

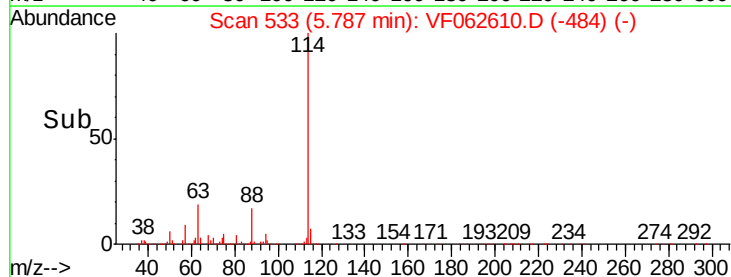
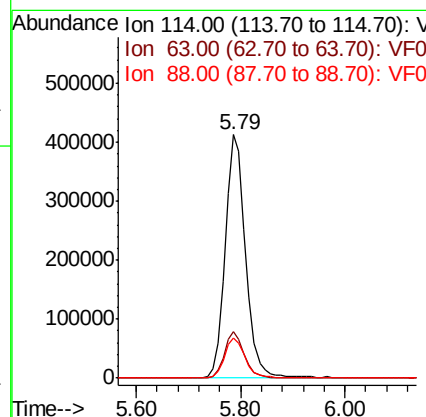
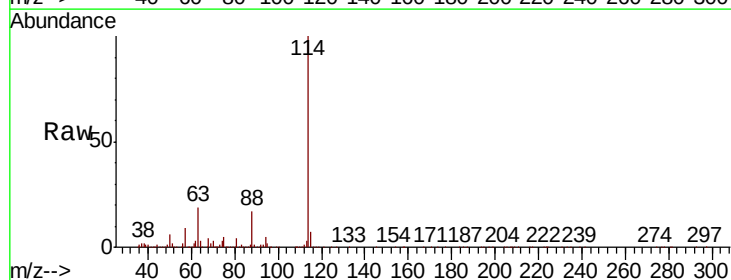
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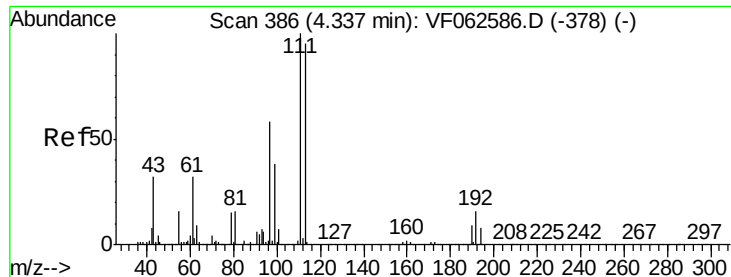
Tgt Ion: 65 Resp: 209365
 Ion Ratio Lower Upper
 65 100
 67 59.1 0.0 116.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VF062610.D
 Acq: 15 May 2019 15:52

Tgt Ion: 114 Resp: 1115219
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 34.6
 88 16.7 0.0 33.6

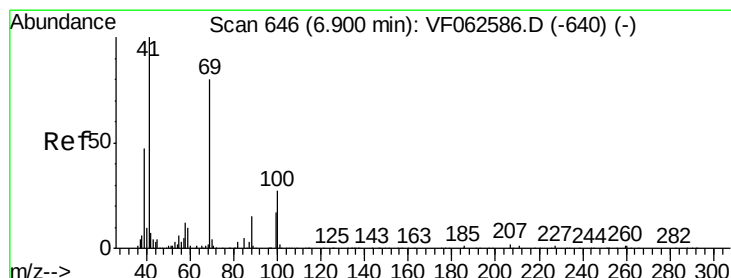
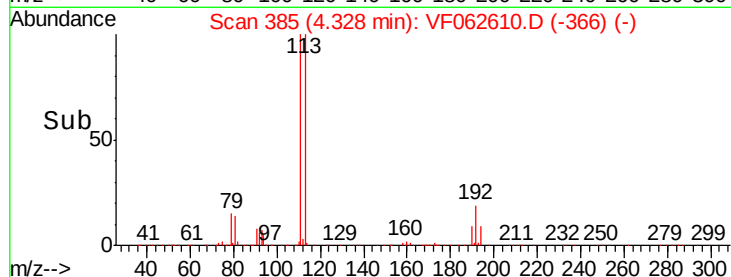
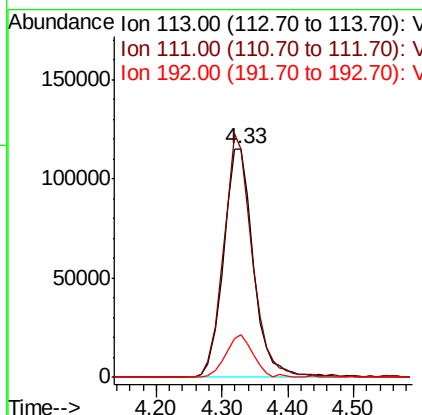
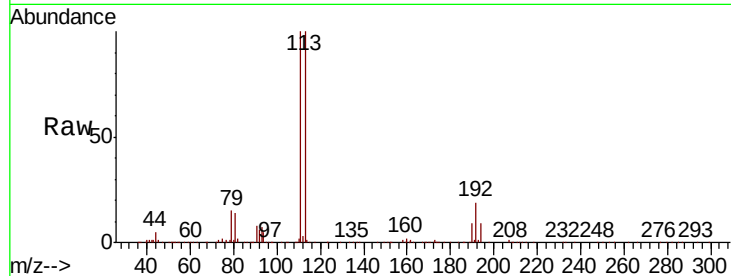




#35
 Dibromofluoromethane
 Concen: 43.951 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: VF062610.D
 Acq: 15 May 2019 15:52

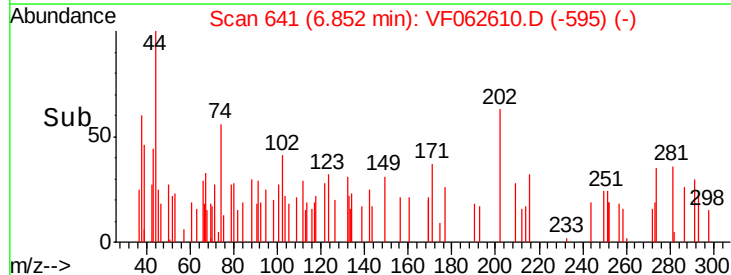
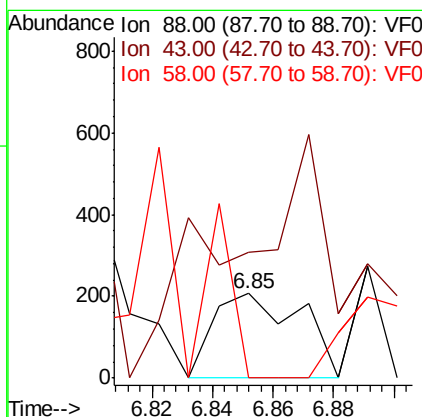
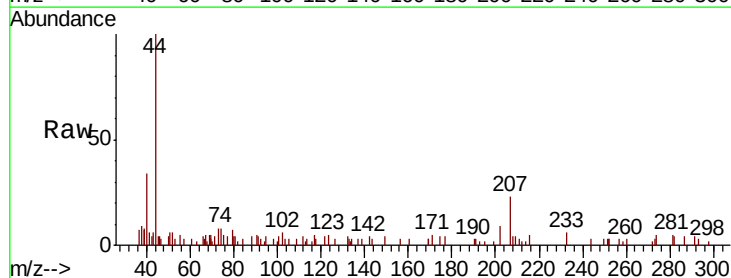
Instrument :
 MSVOA_F
 ClientSampleId :
 RT-3456

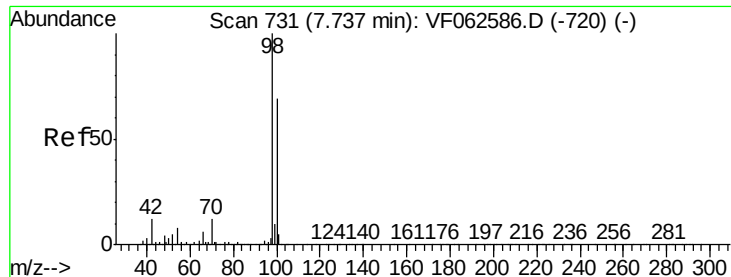
Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.8	83.9	125.9
192	18.6	13.7	20.5



#49
 1,4-Dioxane
 Concen: 12.202 ug/l
 RT: 6.85 min Scan# 641
 Delta R.T. -0.05 min
 Lab File: VF062610.D
 Acq: 15 May 2019 15:52

Tgt Ion	Ratio	Lower	Upper
88	100		
43	149.3	28.8	43.2#
58	0.0	60.6	90.8#

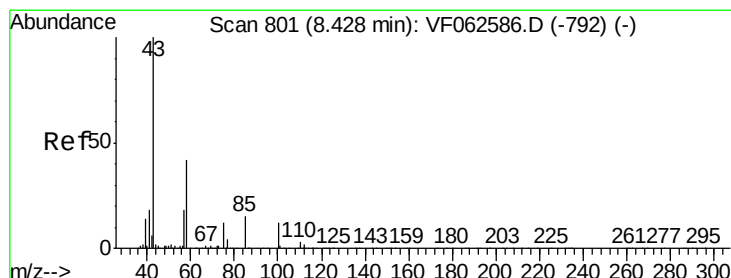
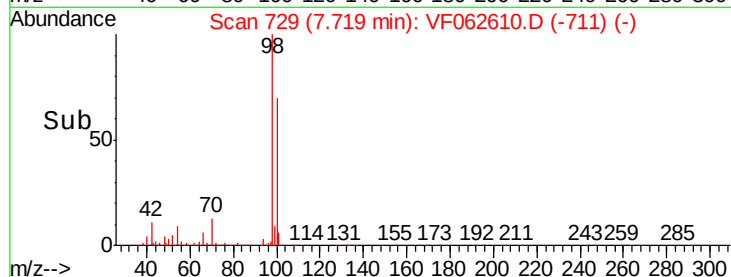
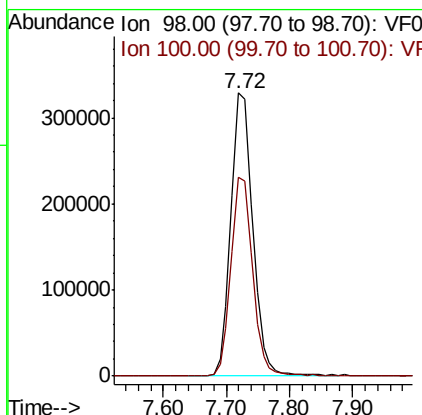
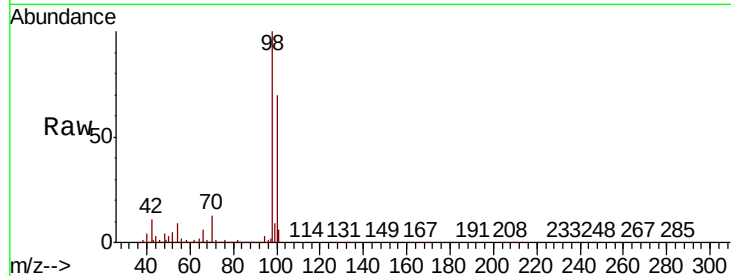




#50
Toluene-d8
Concen: 40.446 ug/l
RT: 7.72 min Scan# 729
Delta R.T. -0.02 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

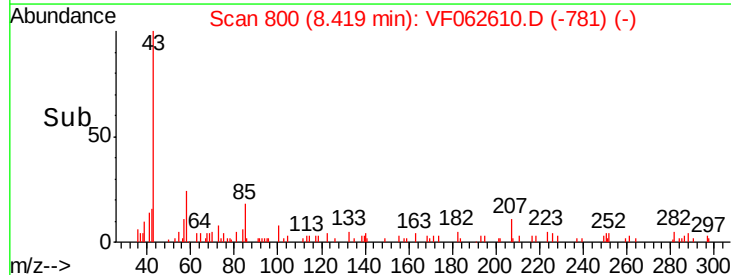
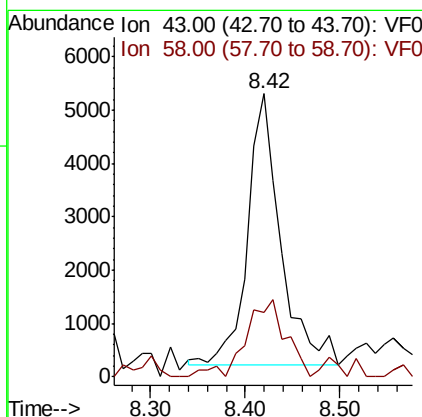
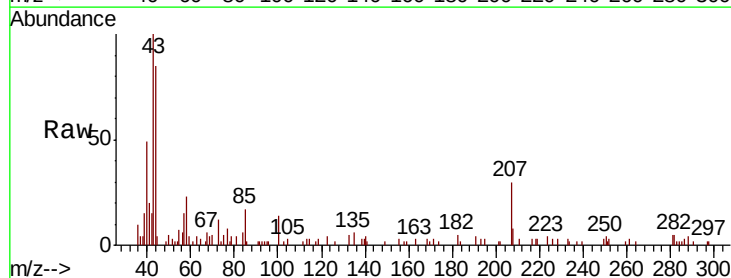
Instrument :
MSVOA_F
ClientSampleId :
RT-3456

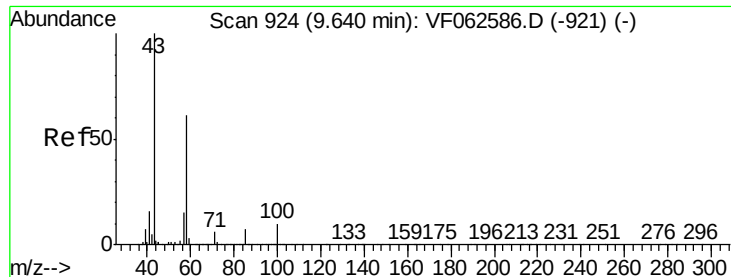
Tgt Ion: 98 Resp: 791088
Ion Ratio Lower Upper
98 100
100 70.3 55.4 83.0



#51
4-Methyl-2-Pentanone
Concen: 3.568 ug/l
RT: 8.42 min Scan# 800
Delta R.T. -0.01 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

Tgt Ion: 43 Resp: 12267
Ion Ratio Lower Upper
43 100
58 22.8 33.6 50.4#

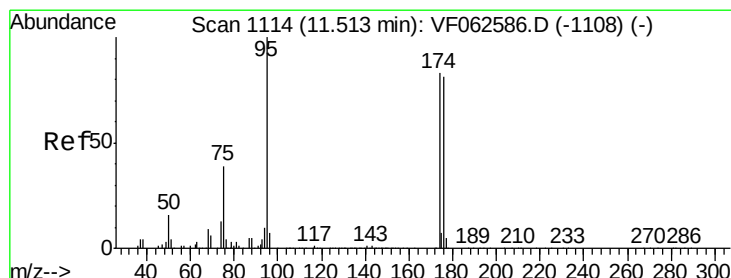
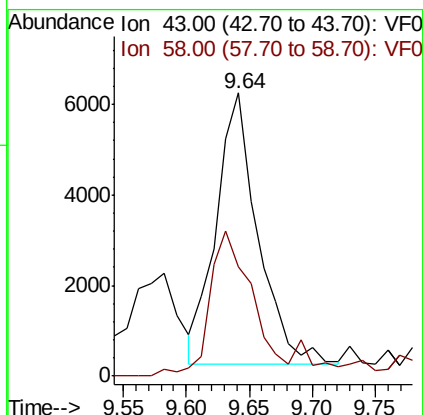
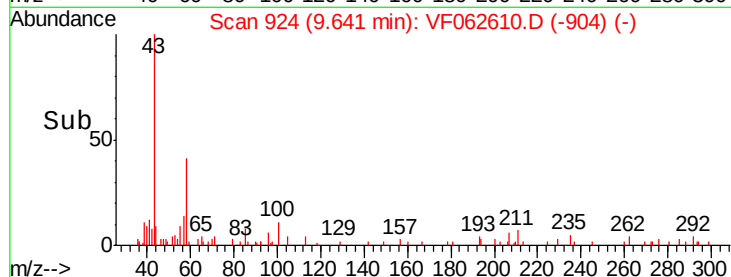
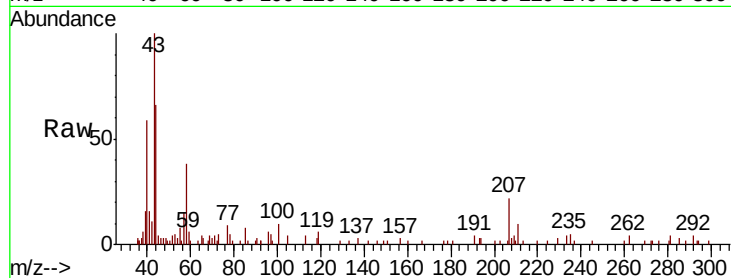




#59
2-Hexanone
Concen: 6.035 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.00 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

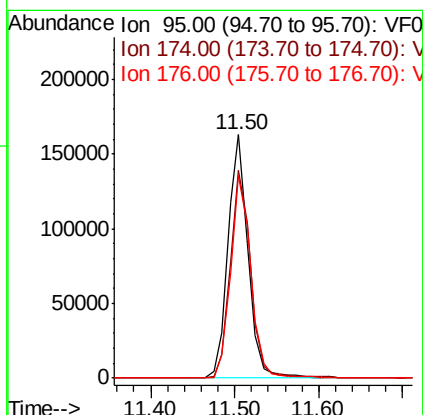
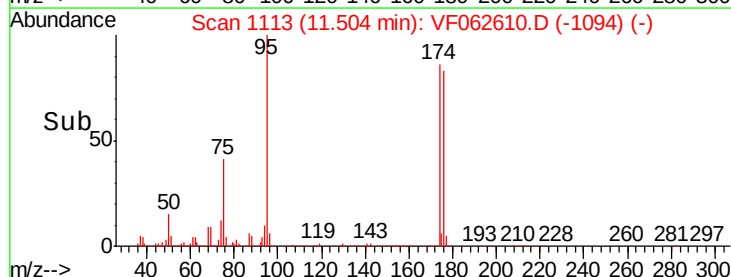
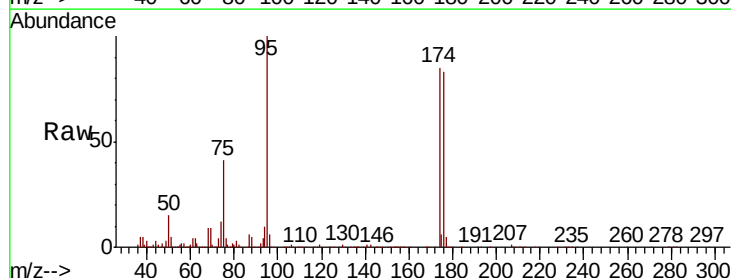
Instrument :
MSVOA_F
ClientSampleId :
RT-3456

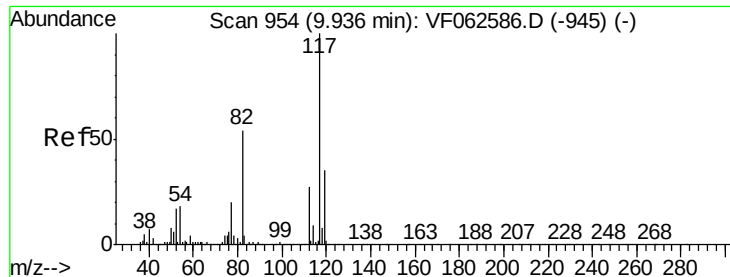
Tgt Ion: 43 Resp: 13704
Ion Ratio Lower Upper
43 100
58 38.5 28.7 86.3



#62
4-Bromofluorobenzene
Concen: 39.304 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

Tgt Ion: 95 Resp: 268476
Ion Ratio Lower Upper
95 100
174 85.4 0.0 166.6
176 83.3 0.0 161.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF062610.D

Acq: 15 May 2019 15:52

Instrument :

MSVOA_F

ClientSampleId :

RT-3456

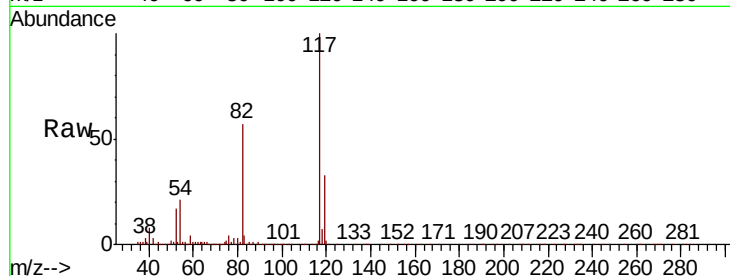
Tgt Ion:117 Resp: 779754

Ion Ratio Lower Upper

117 100

82 57.0 43.4 65.0

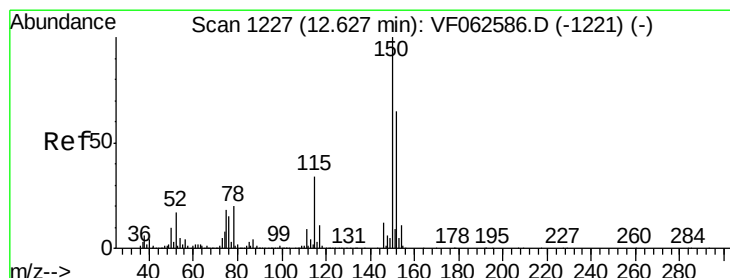
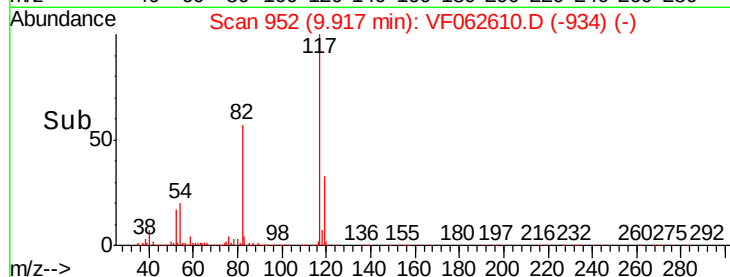
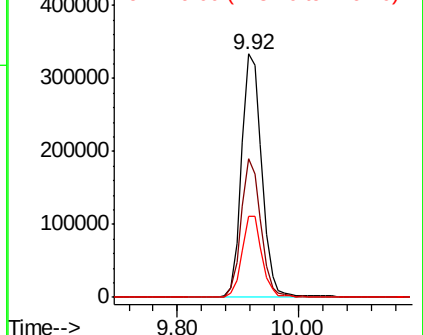
119 33.3 27.7 41.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF062610.D

Acq: 15 May 2019 15:52

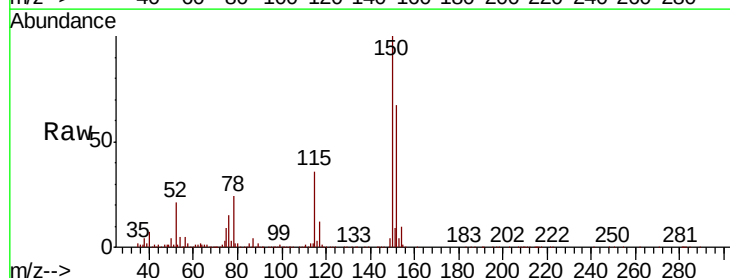
Tgt Ion:152 Resp: 315029

Ion Ratio Lower Upper

152 100

115 53.8 26.2 78.6

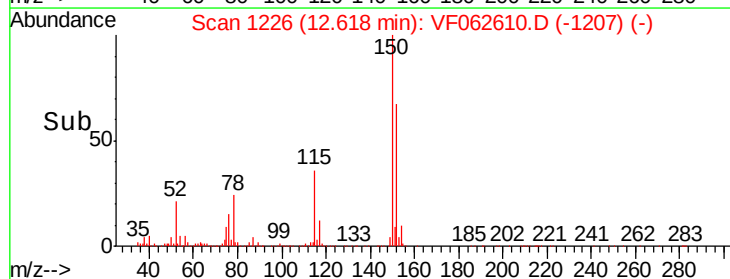
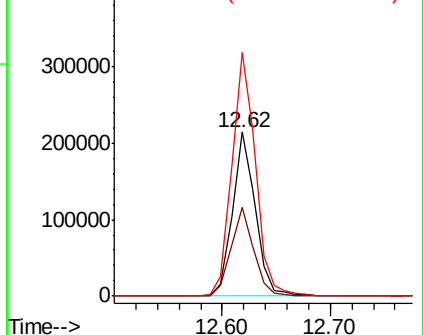
150 148.7 0.0 316.0

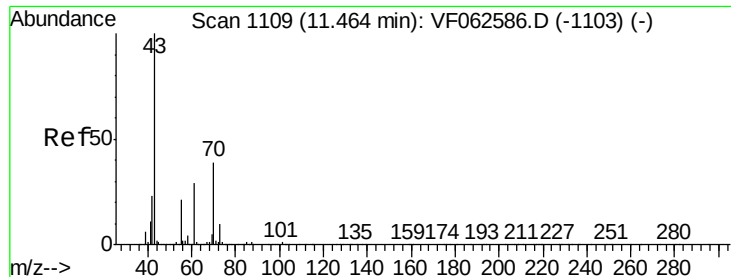


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amyI acetate

Concen: 2.758 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF062610.D

Acq: 15 May 2019 15:52

Instrument :

MSVOA_F

ClientSampled :

RT-3456

Tgt Ion: 43 Resp: 14186

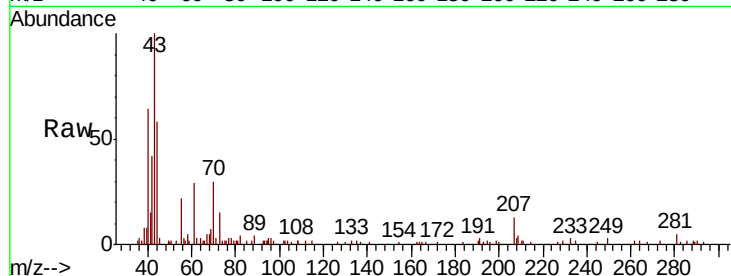
Ion Ratio Lower Upper

43 100

70 30.2 31.0 46.4#

55 22.4 16.7 25.1

61 28.8 23.4 35.2

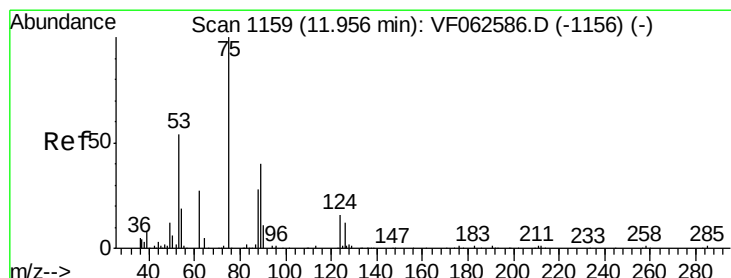
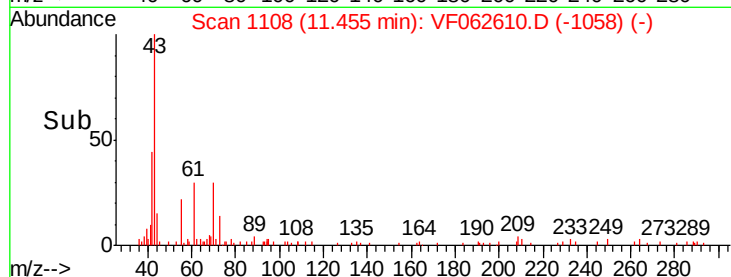
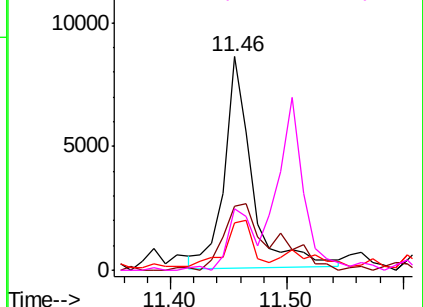


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.072 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VF062610.D

Acq: 15 May 2019 15:52

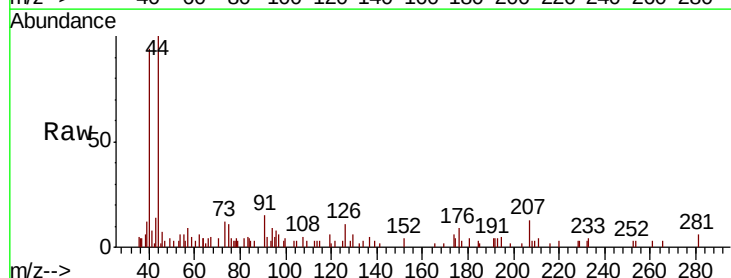
Tgt Ion: 75 Resp: 1271

Ion Ratio Lower Upper

75 100

53 30.2 46.6 70.0#

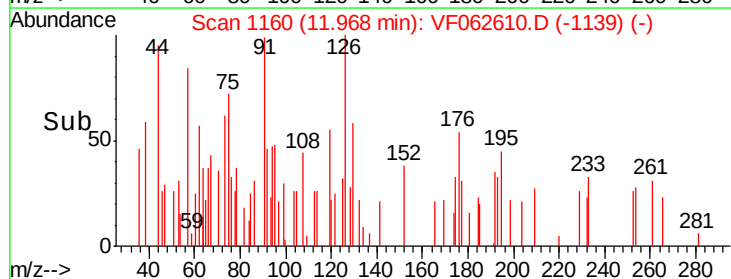
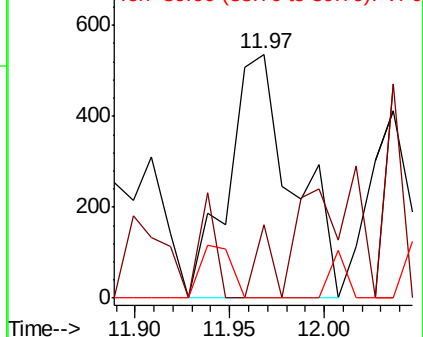
89 0.0 33.8 50.8#

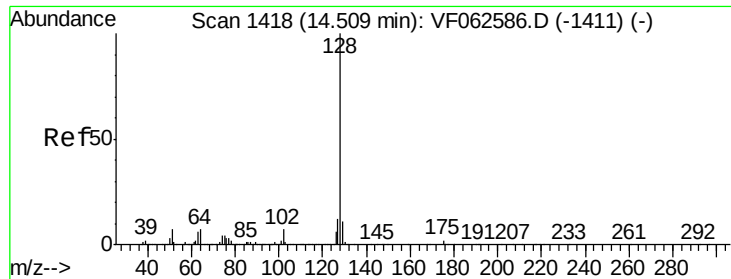


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#95
Naphthalene
Concen: 1.736 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF062610.D
Acq: 15 May 2019 15:52

Instrument :
MSVOA_F
ClientSampleId :
RT-3456

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.6	9.5	14.3#
129	14.3	8.6	13.0#

