

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122418\
 Data File : VF061161.D
 Acq On : 24 Dec 2018 13:17
 Operator : VA/AP
 Sample : J6389-04RE
 Misc : 6.50g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 23:47:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	157615	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	280796	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	232330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	104530	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	85734	42.29	ug/l	0.00
Spiked Amount			Recovery	=	84.58%	
35) Dibromofluoromethane	4.12	113	98364	43.73	ug/l	0.00
Spiked Amount			Recovery	=	87.46%	
50) Toluene-d8	7.56	98	264666	41.52	ug/l	0.00
Spiked Amount			Recovery	=	83.04%	
62) 4-Bromofluorobenzene	11.42	95	107293	36.51	ug/l	0.00
Spiked Amount			Recovery	=	73.02%	

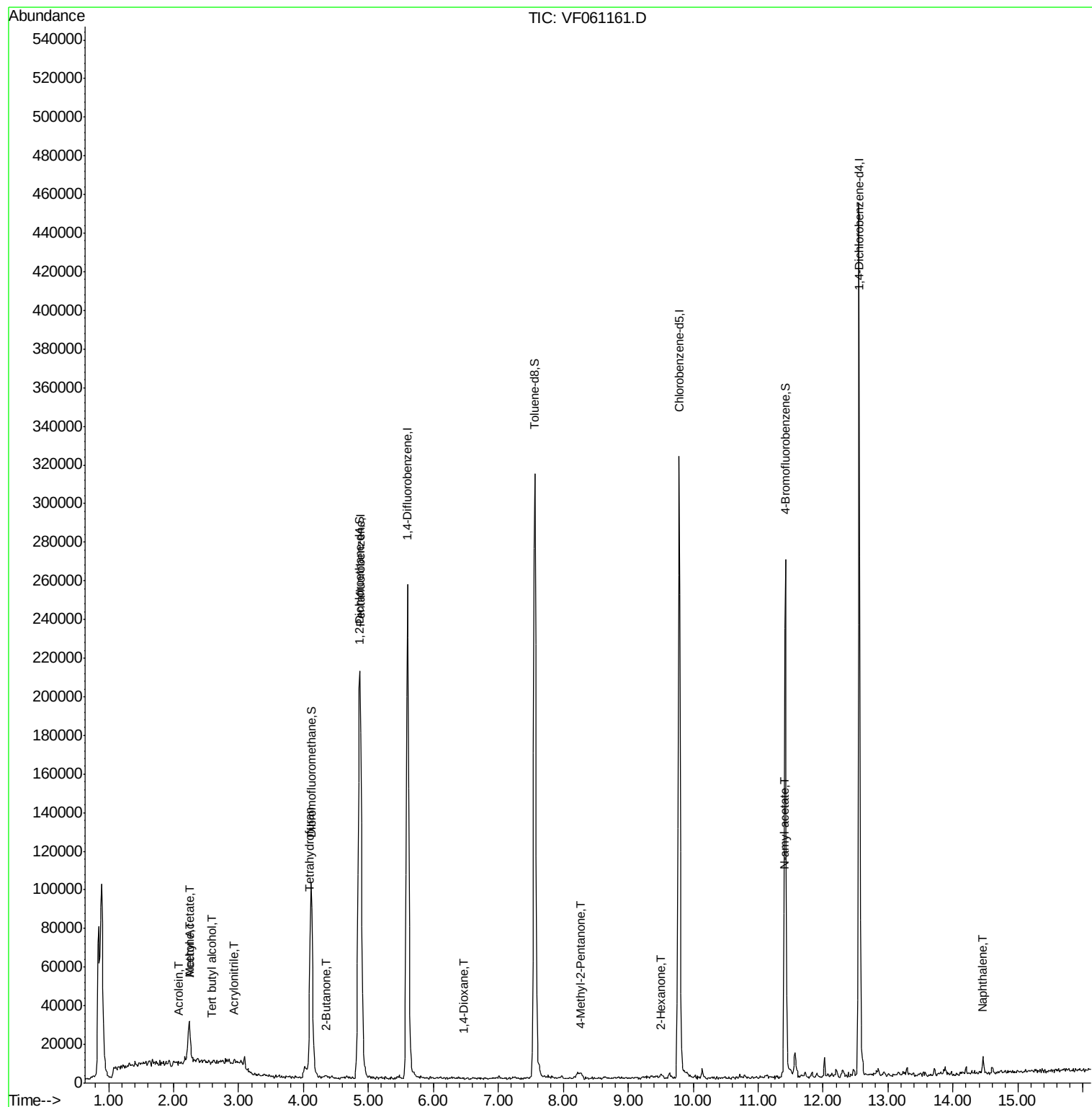
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	162	1.980	ug/l #	1
13) Acrolein	2.08	56	469	7.934	ug/l	92
15) Acrylonitrile	2.95	53	1163	6.148	ug/l #	23
16) Acetone	2.24	43	38762	95.647	ug/l #	92
18) Methyl Acetate	2.24	43	38762	46.231	ug/l #	66
20) Methylene Chloride	2.23	84	921	Below Cal	#	81
25) 2-Butanone	4.35	43	4797	7.299	ug/l	93
29) Tetrahydrofuran	4.09	42	1201	4.490	ug/l #	44
37) Ethyl Acetate	4.13	43	172	Below Cal	#	21
49) 1,4-Dioxane	6.47	88	60	7.238	ug/l #	23
51) 4-Methyl-2-Pentanone	8.26	43	2571	2.291	ug/l #	77
59) 2-Hexanone	9.50	43	3435	4.232	ug/l	98
70) Styrene	10.80	104	570	Below Cal		90
74) N-amyl acetate	11.39	43	2759	1.380	ug/l #	84
78) n-propylbenzene	11.60	91	1663	Below Cal		88
87) 1,3-Dichlorobenzene	12.47	146	884	Below Cal		96
95) Naphthalene	14.46	128	4959	1.105	ug/l #	92

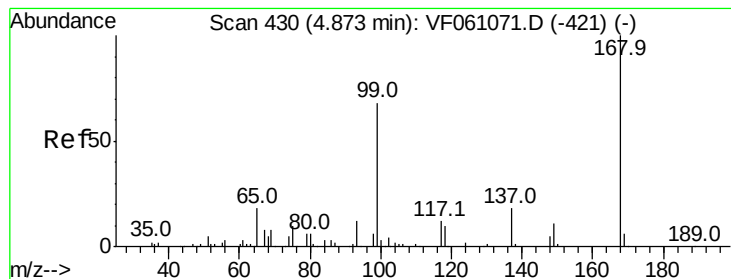
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

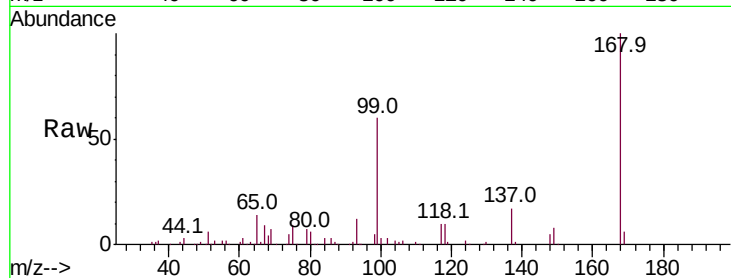
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 157615

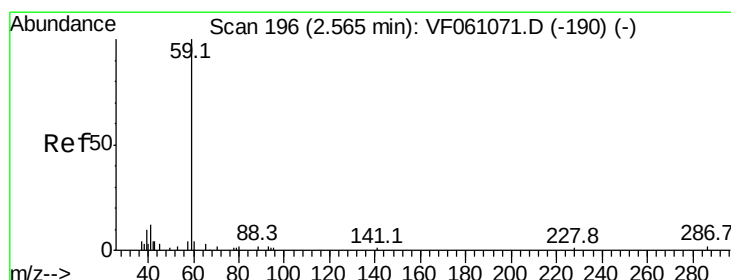
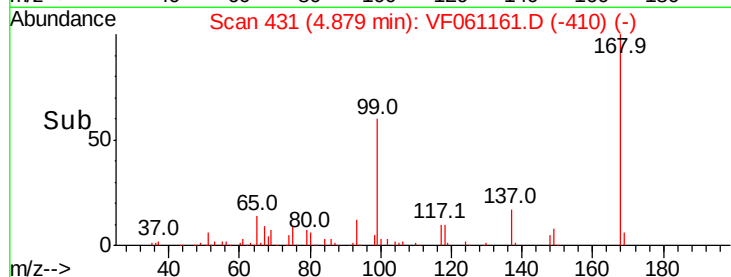
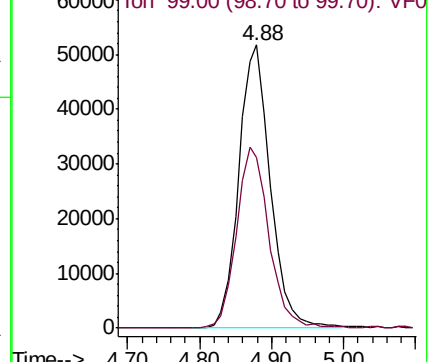
Ion Ratio Lower Upper

168 100

99 60.3 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF061161.D (-421) (-)



#11

Tert butyl alcohol

Concen: 1.980 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF061161.D

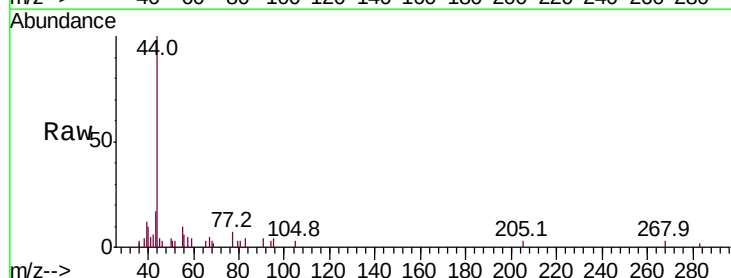
Acq: 24 Dec 2018 13:17

Tgt Ion: 59 Resp: 162

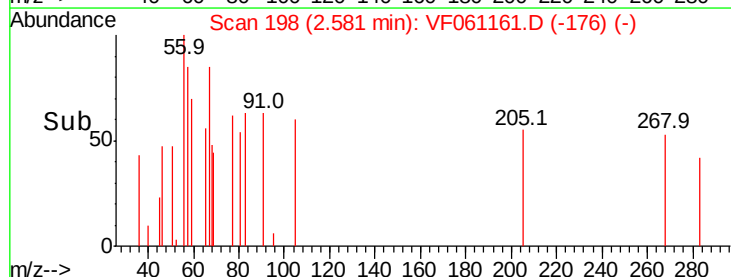
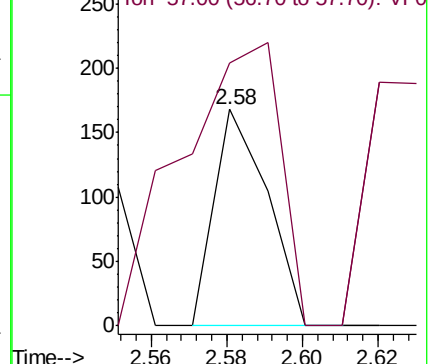
Ion Ratio Lower Upper

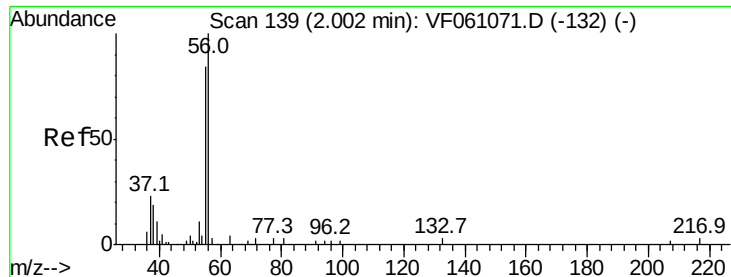
59 100

57 121.4 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF061161.D (-190) (-)

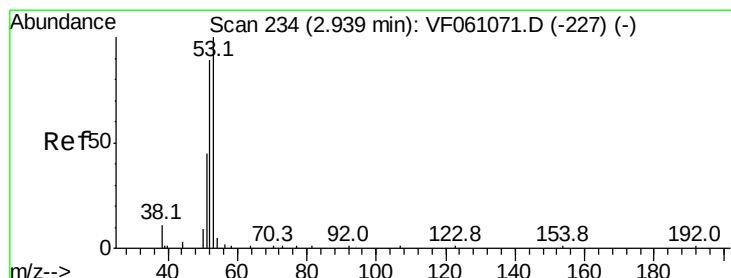
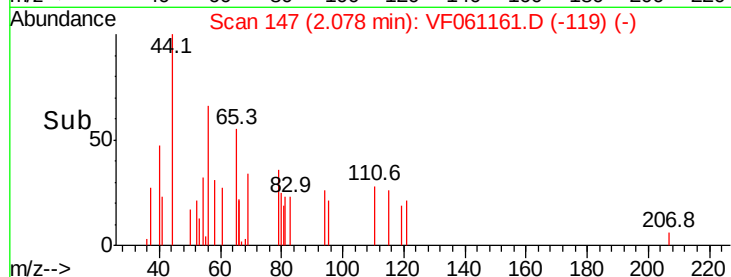
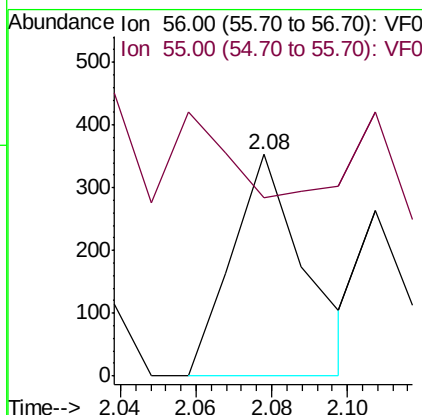
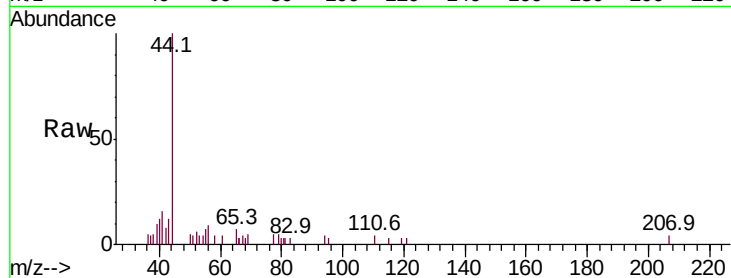




#13
Acrolein
Concen: 7.934 ug/l
RT: 2.08 min Scan# 147
Delta R.T. 0.08 min
Lab File: VF061161.D
Acq: 24 Dec 2018 13:17

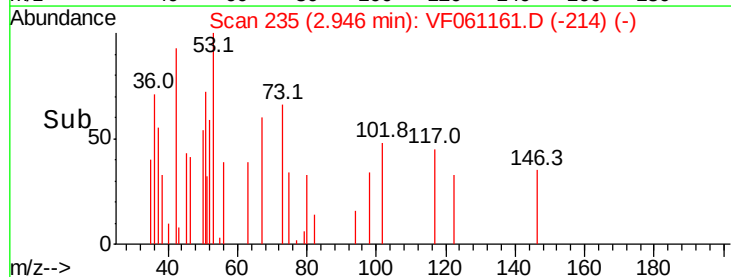
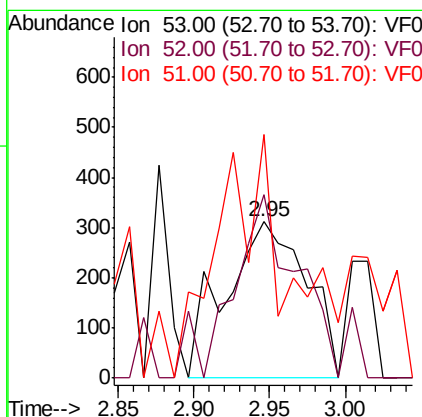
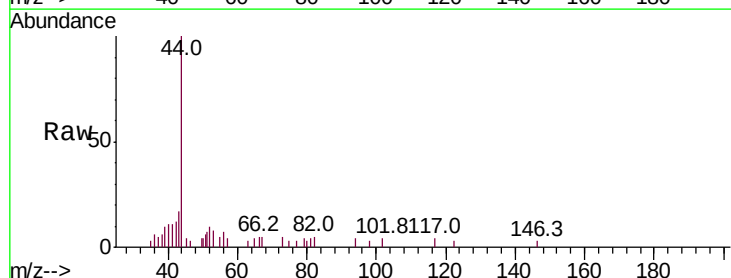
Instrument :
MSVOA_F
ClientSampled :

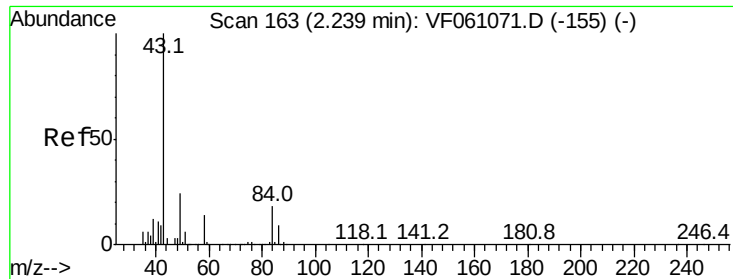
Tot Ion: 56 Resp: 469
Ion Ratio Lower Upper
56 100
55 80.5 70.2 105.2



#15
Acrylonitrile
Concen: 6.148 ug/l
RT: 2.95 min Scan# 235
Delta R.T. 0.01 min
Lab File: VF061161.D
Acq: 24 Dec 2018 13:17

Tgt Ion: 53 Resp: 1163
Ion Ratio Lower Upper
53 100
52 118.0 71.3 106.9#
51 156.3 36.8 55.2#

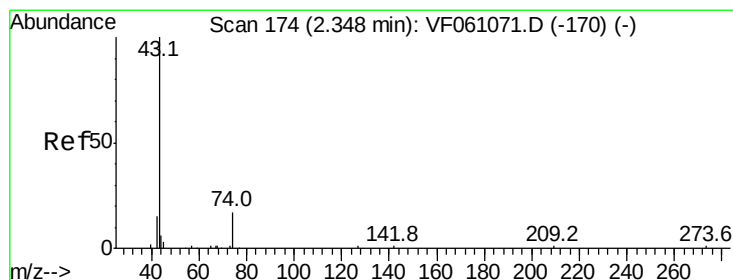
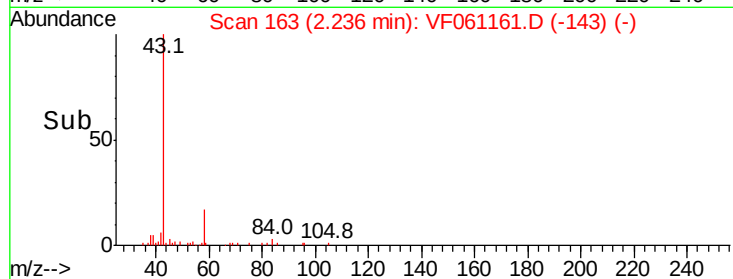
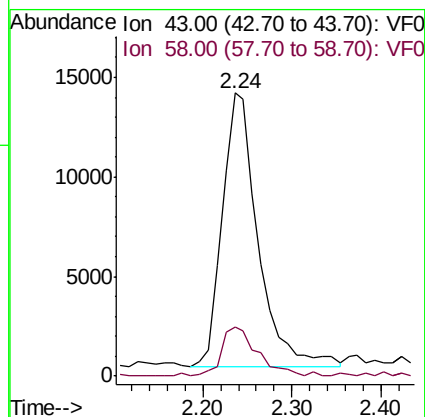
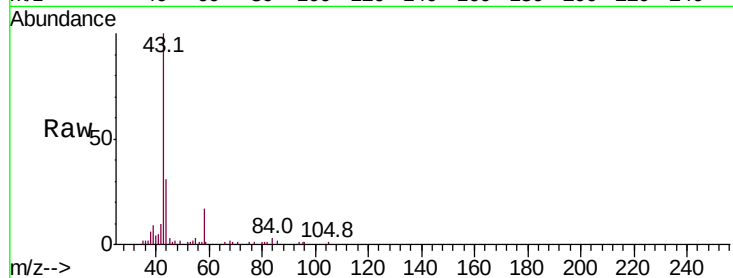




#16
Acetone
Concen: 95.647 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.00 min
Lab File: VF061161.D
Acq: 24 Dec 2018 13:17

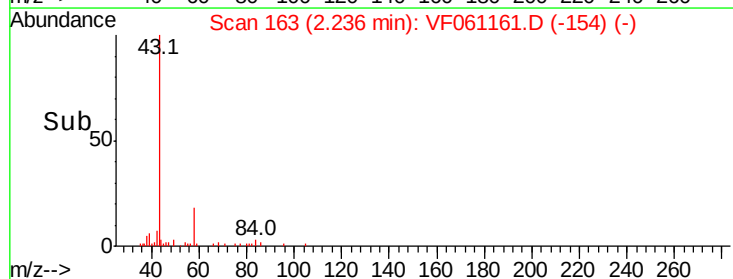
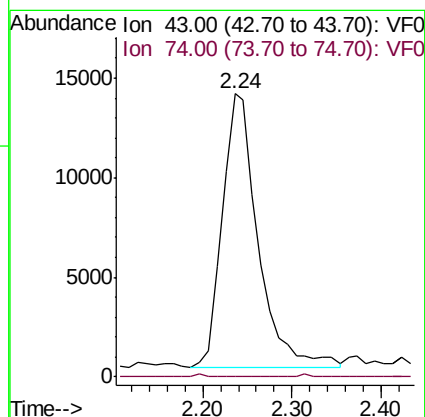
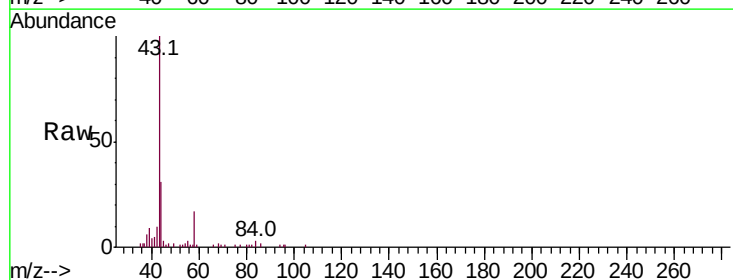
Instrument :
MSVOA_F
ClientSampleId :

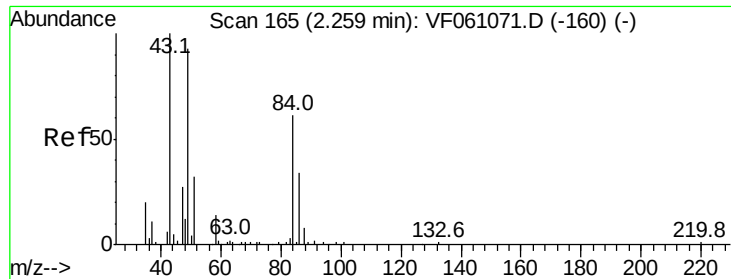
Tot Ion: 43 Resp: 38762
Ion Ratio Lower Upper
43 100
58 17.2 11.1 16.7#



#18
Methyl Acetate
Concen: 46.231 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.11 min
Lab File: VF061161.D
Acq: 24 Dec 2018 13:17

Tgt Ion: 43 Resp: 38762
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#

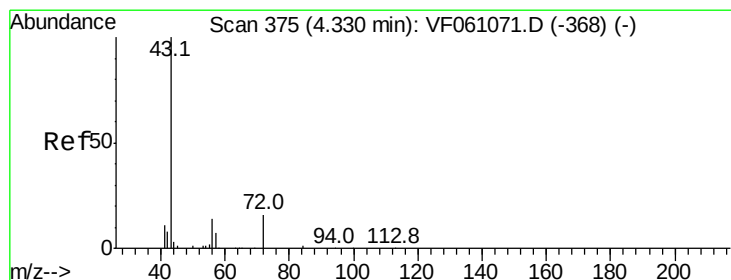
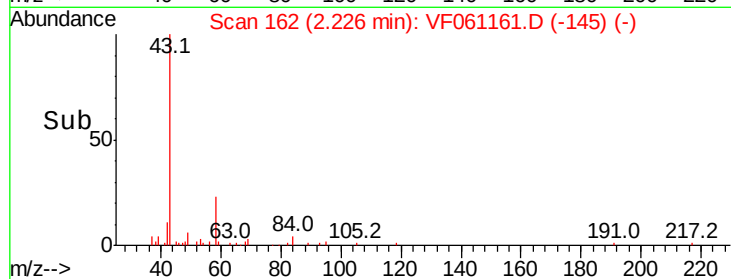
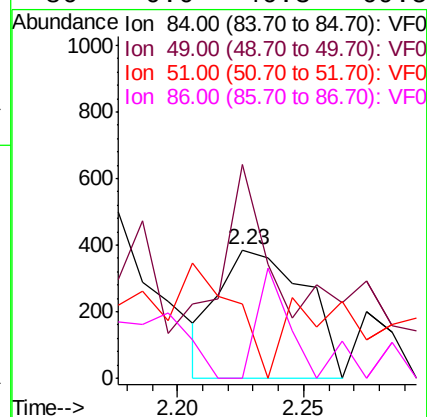
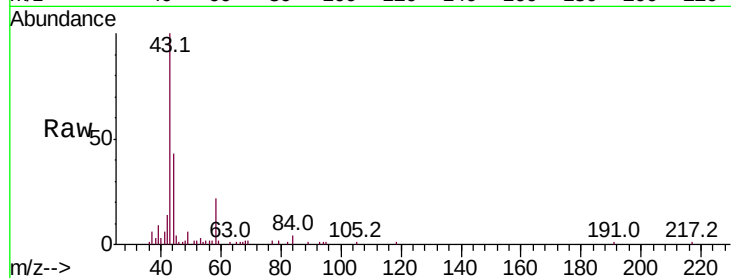




#20
Methylene Chloride
Concen: Below Cal
RT: 2.23 min Scan# 162
Delta R.T. -0.03 min
Lab File: VF061161.D
Acq: 24 Dec 2018 13:17

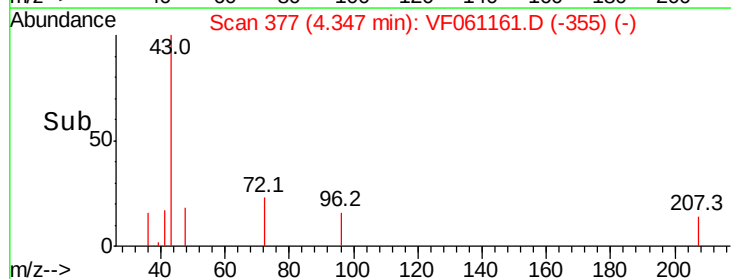
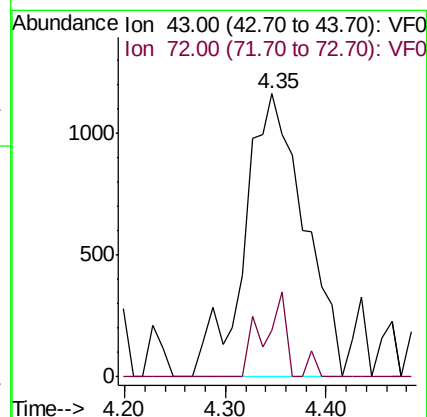
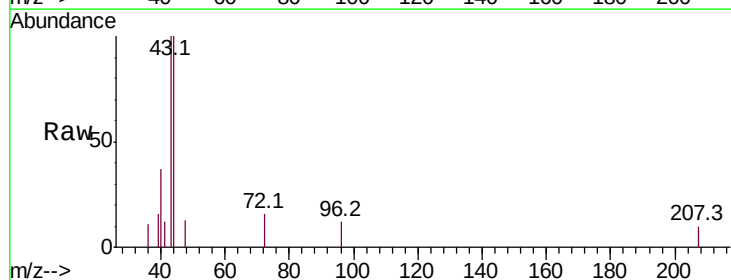
Instrument :
MSVOA_F
ClientSampled :

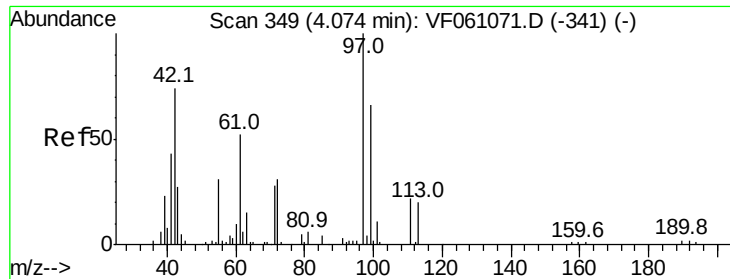
Tot Ion: 84 Resp: 921
Ion Ratio Lower Upper
84 100
49 166.3 129.4 194.2
51 57.8 44.0 66.0
86 0.0 46.3 69.5#



#25
2-Butanone
Concen: 7.299 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF061161.D
Acq: 24 Dec 2018 13:17

Tgt Ion: 43 Resp: 4797
Ion Ratio Lower Upper
43 100
72 16.4 15.6 23.4





#29

Tetrahydrofuran

Concen: 4.490 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :
MSVOA_F
ClientSampleId :

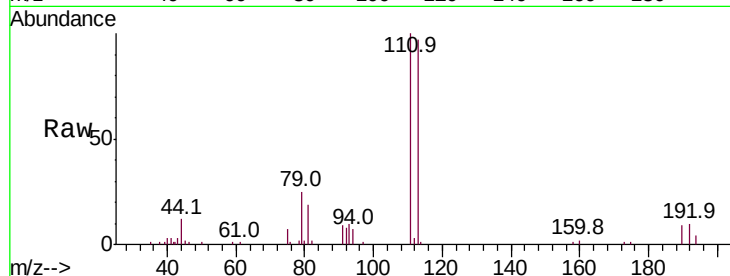
Tot Ion: 42 Resp: 1201

Ion Ratio Lower Upper

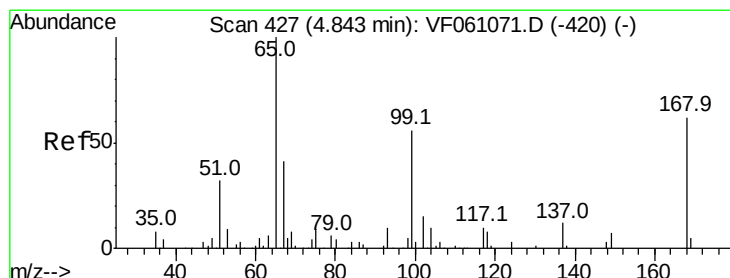
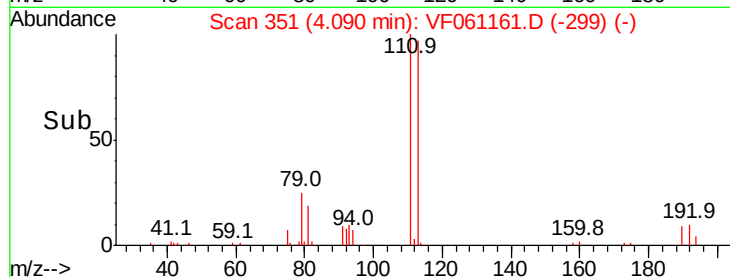
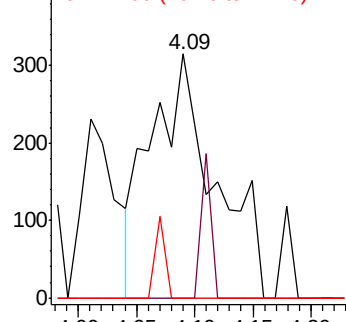
42 100

72 9.2 31.8 47.8#

71 0.0 29.7 44.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 42.292 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061161.D

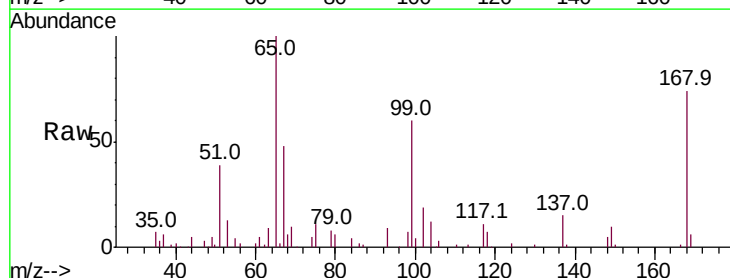
Acq: 24 Dec 2018 13:17

Tgt Ion: 65 Resp: 85734

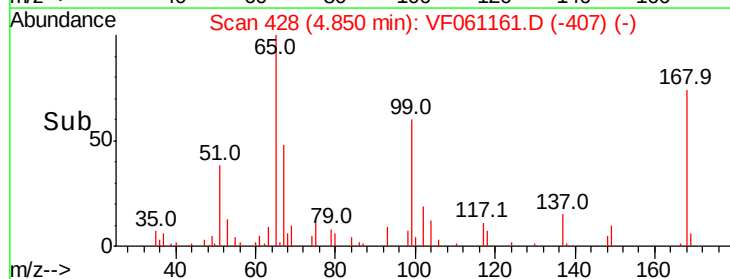
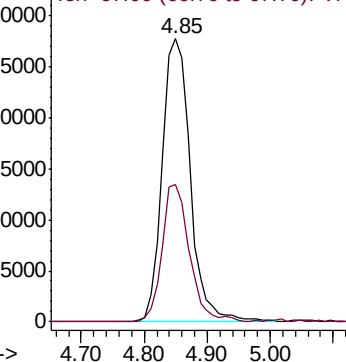
Ion Ratio Lower Upper

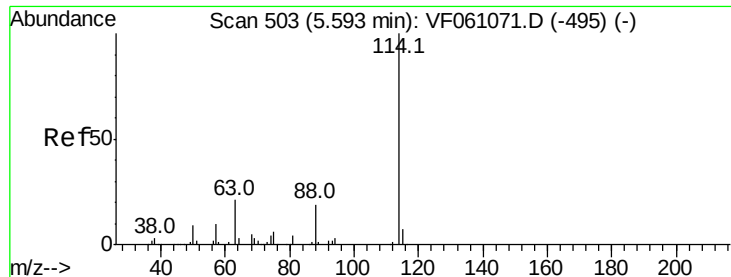
65 100

67 48.5 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

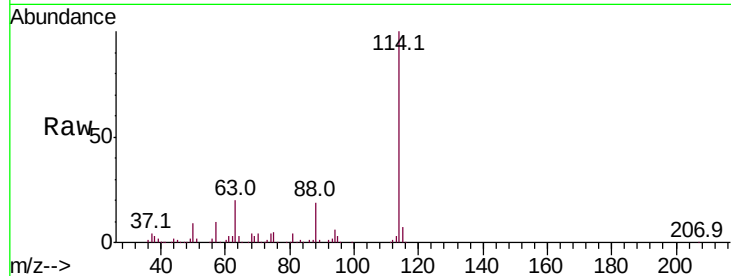




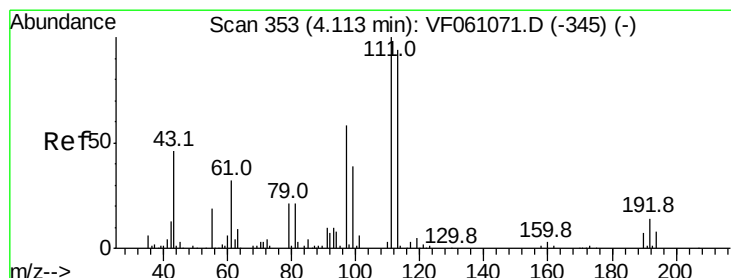
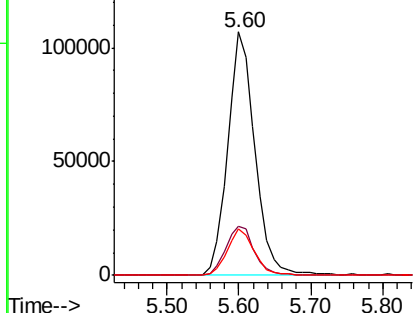
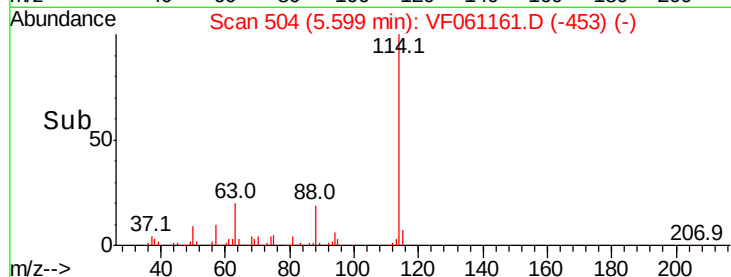
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF061161.D
 Acq: 24 Dec 2018 13:17

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	41.6
88	19.2	0.0	38.0

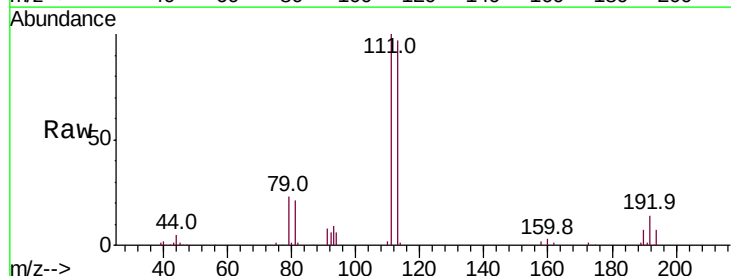


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

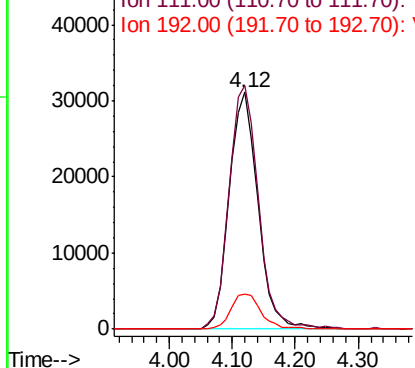
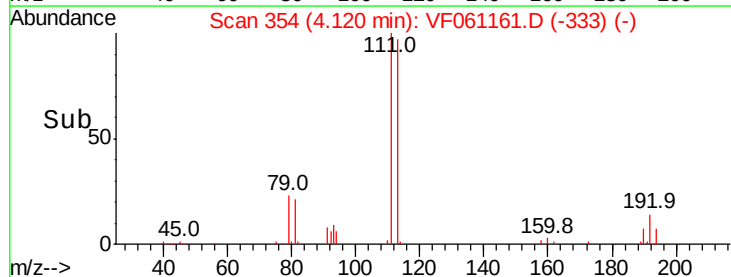


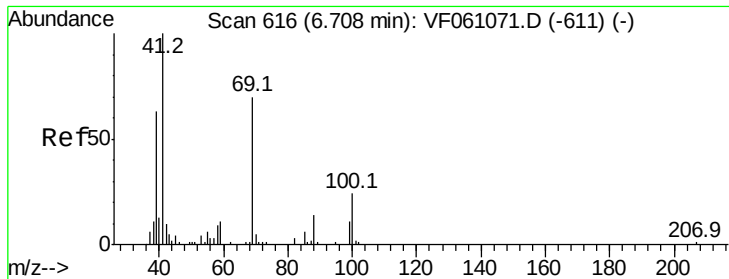
#35
 Dibromofluoromethane
 Concen: 43.730 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF061161.D
 Acq: 24 Dec 2018 13:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	85.2	127.8
192	14.7	12.8	19.2



Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 7.238 ug/l

RT: 6.47 min Scan# 592

Delta R.T. -0.24 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :
MSVOA_F
ClientSampleId :

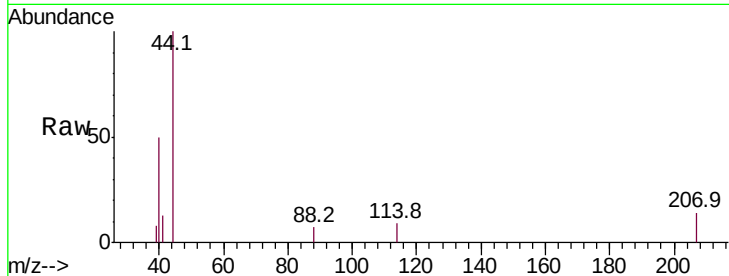
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

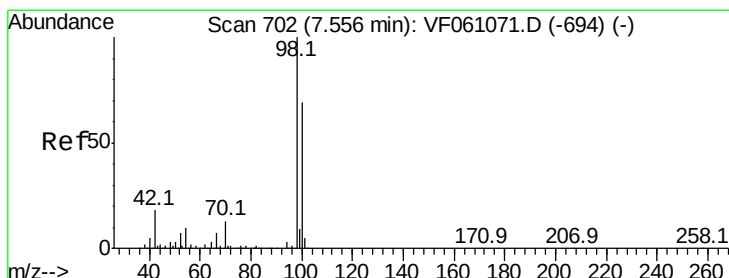
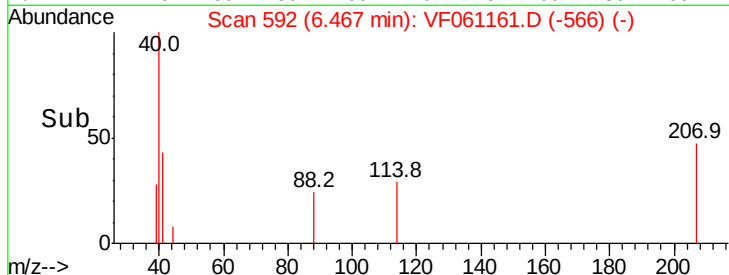
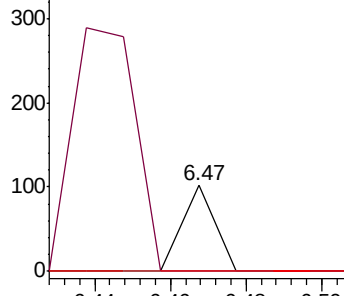
88 100

43 0.0 33.3 49.9#

58 0.0 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 41.520 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061161.D

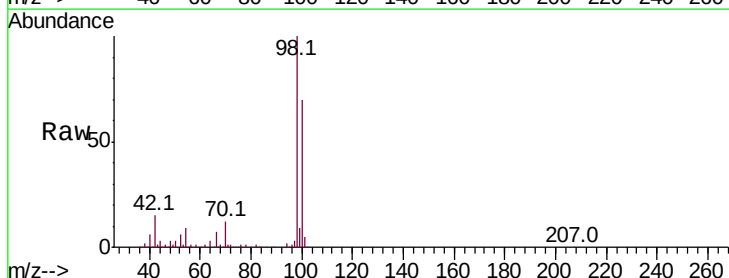
Acq: 24 Dec 2018 13:17

Tgt Ion: 98 Resp: 264666

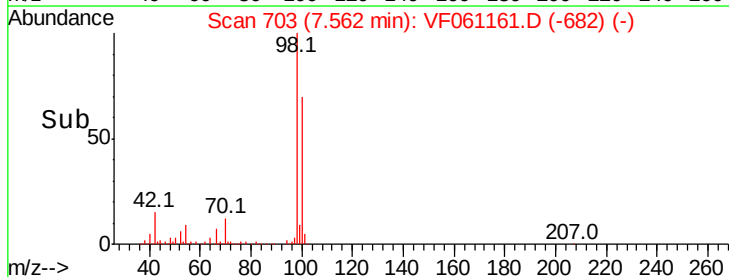
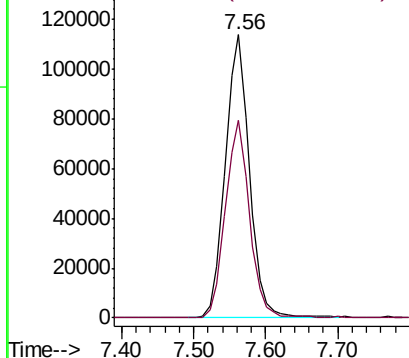
Ion Ratio Lower Upper

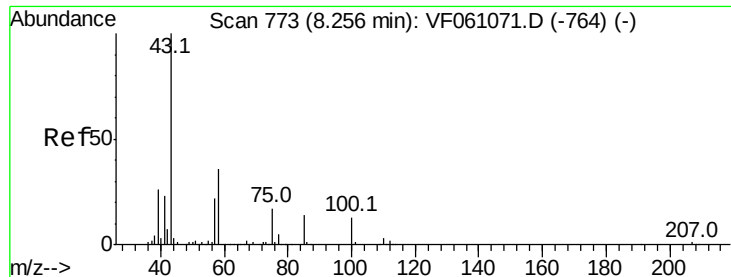
98 100

100 70.0 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.291 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA_F

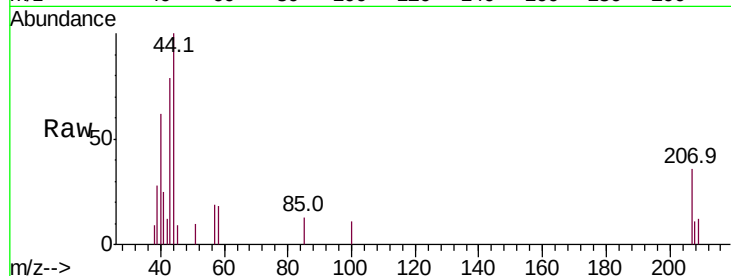
ClientSampleId :

Tot Ion: 43 Resp: 2571

Ion Ratio Lower Upper

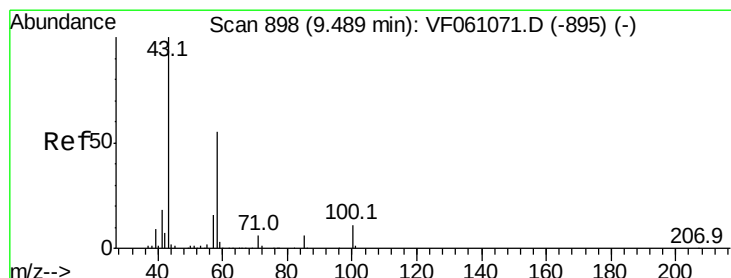
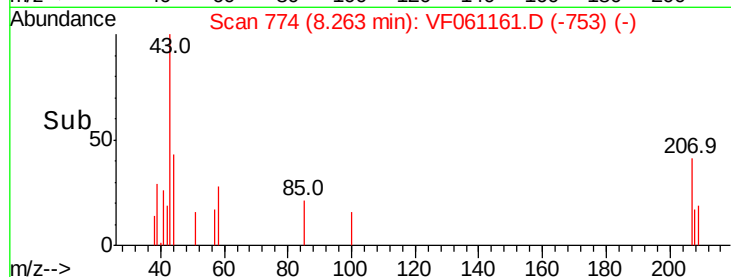
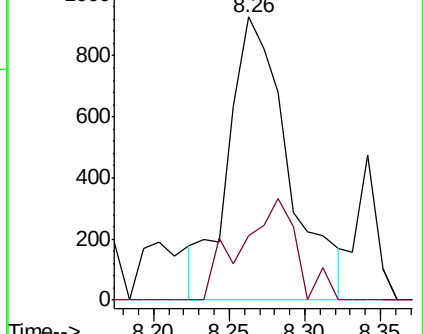
43 100

58 22.8 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 4.232 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.01 min

Lab File: VF061161.D

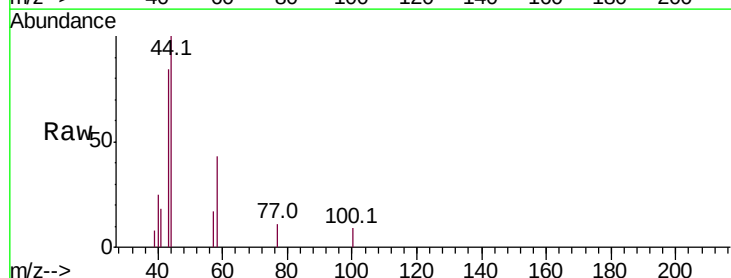
Acq: 24 Dec 2018 13:17

Tgt Ion: 43 Resp: 3435

Ion Ratio Lower Upper

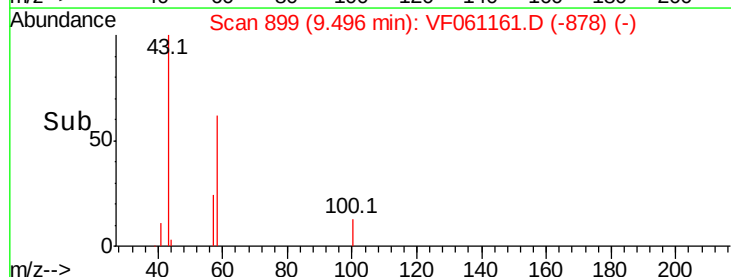
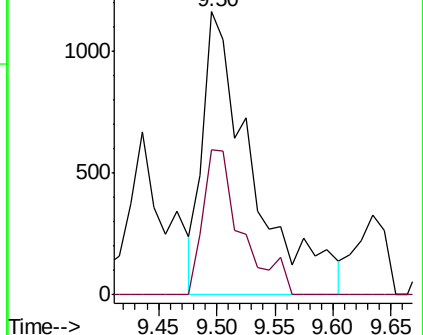
43 100

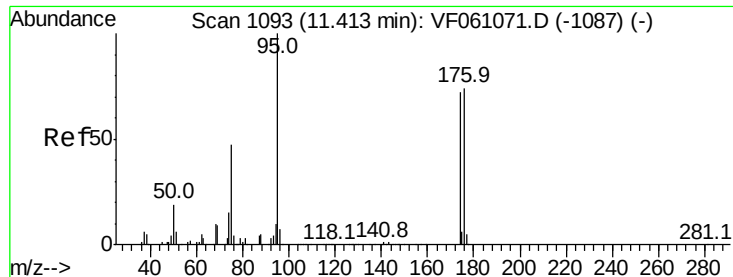
58 51.3 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 36.511 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

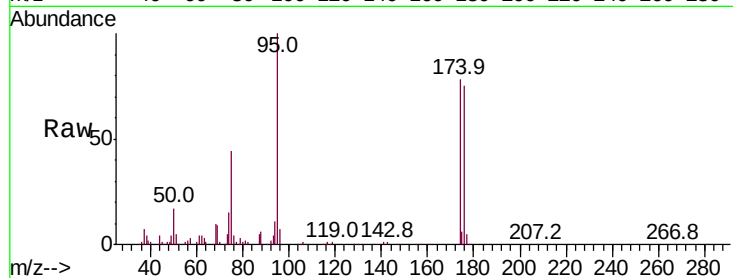
Tot Ion: 95 Resp: 107293

Ion Ratio Lower Upper

95 100

174 77.7 0.0 143.8

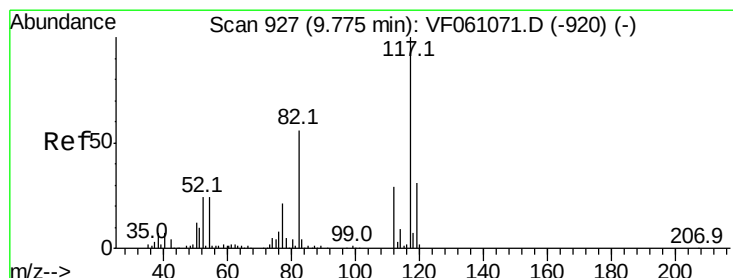
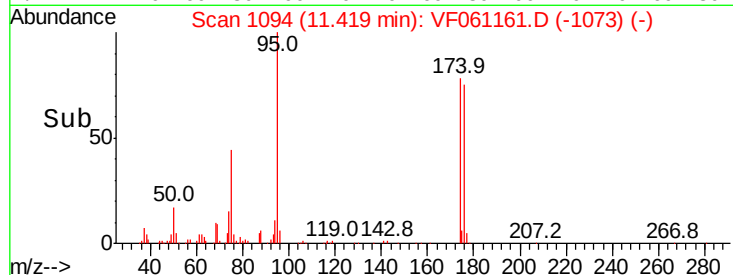
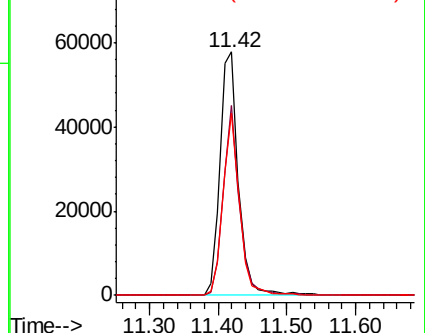
176 75.1 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

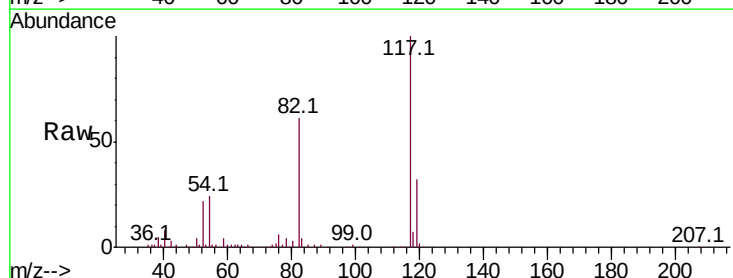
Tgt Ion: 117 Resp: 232330

Ion Ratio Lower Upper

117 100

82 60.6 45.0 67.4

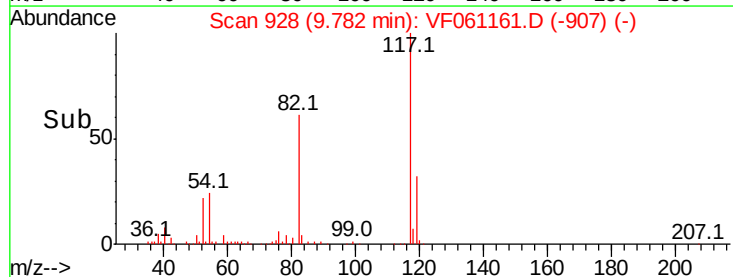
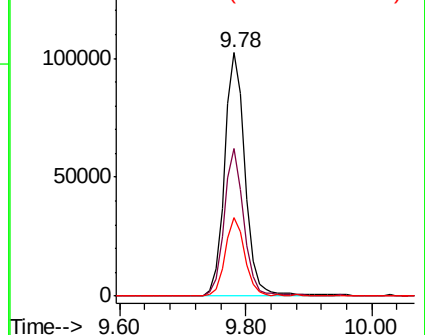
119 32.1 24.8 37.2

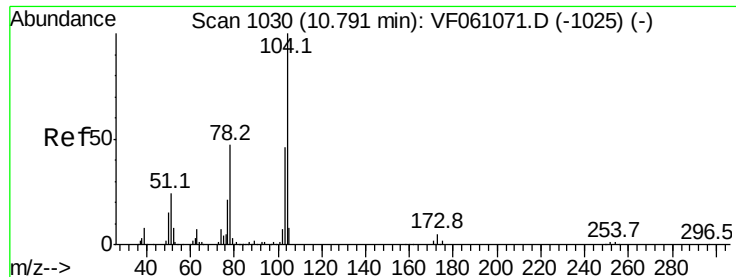


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#70

Stvrene

Concen: Below Cal

RT: 10.80 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA_F

ClientSampled :

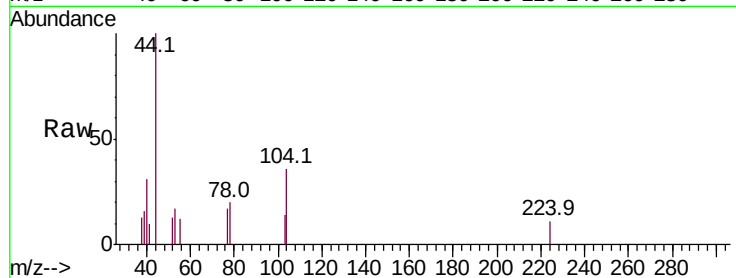
Tot Ion:104 Resp: 570

Ion Ratio Lower Upper

104 100

78 55.1 38.4 57.6

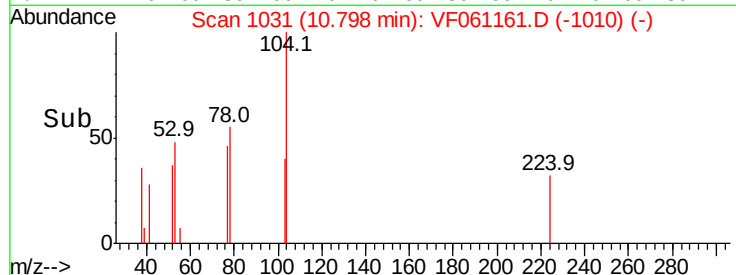
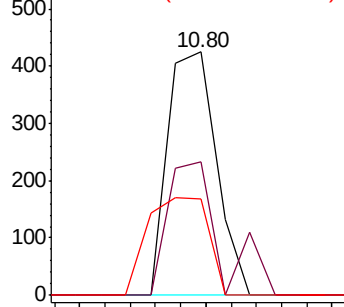
103 39.8 37.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

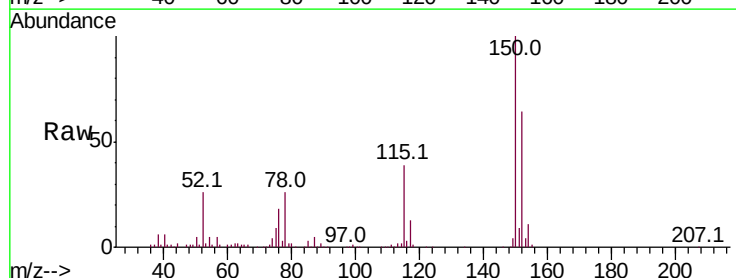
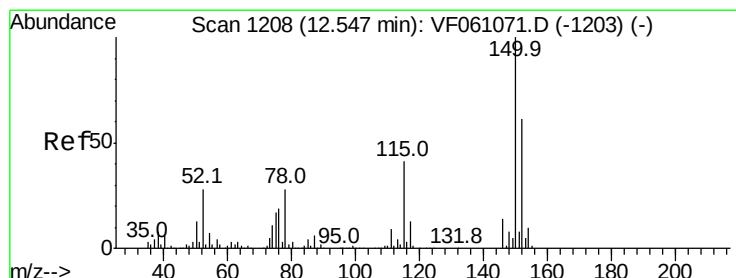
Tgt Ion:152 Resp: 104530

Ion Ratio Lower Upper

152 100

115 61.5 33.3 99.9

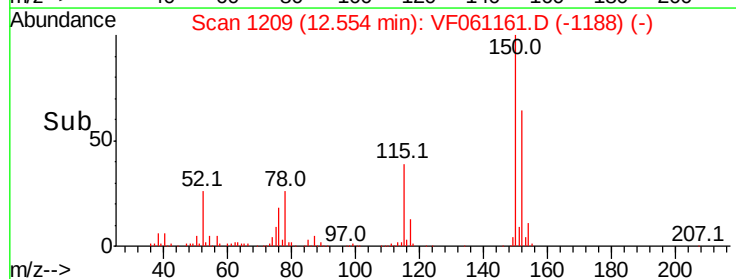
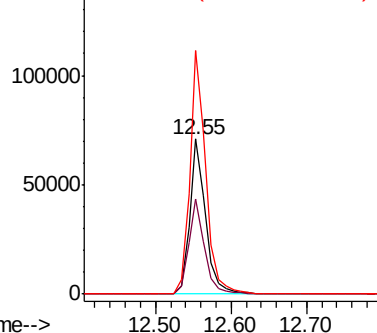
150 157.0 0.0 328.2

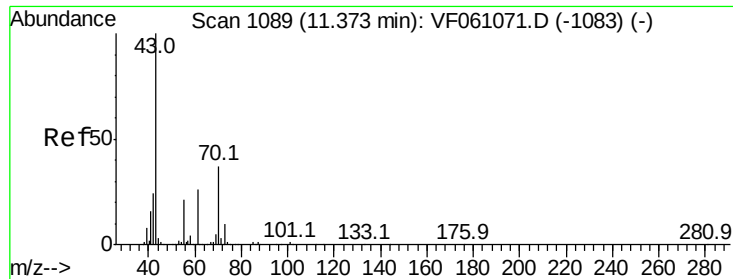


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 1.380 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 2759

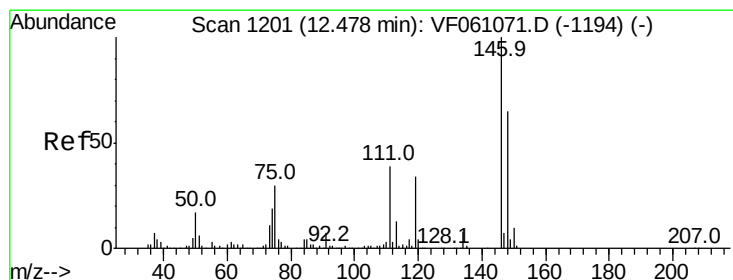
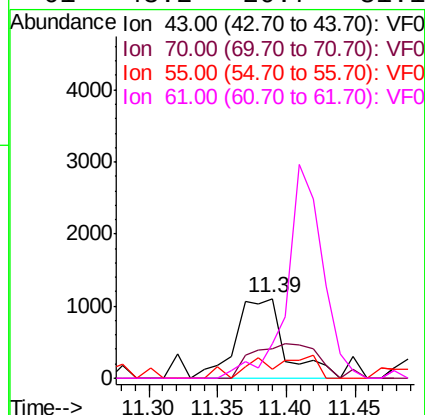
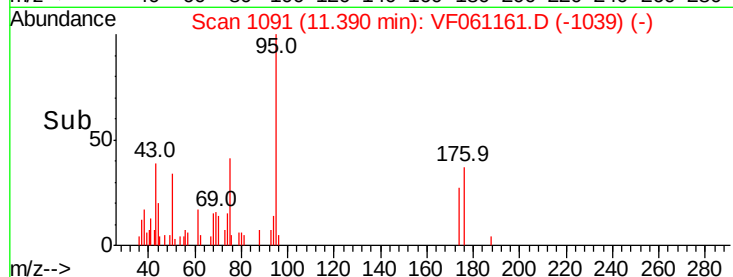
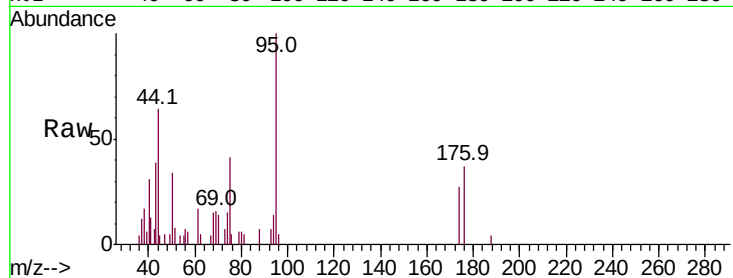
Ion Ratio Lower Upper

43 100

70 36.8 29.2 43.8

55 11.5 16.5 24.7#

61 43.2 20.7 31.1#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.47 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

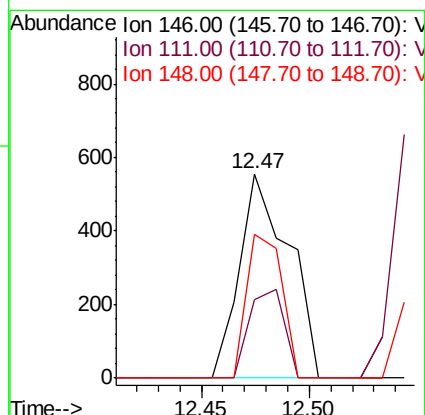
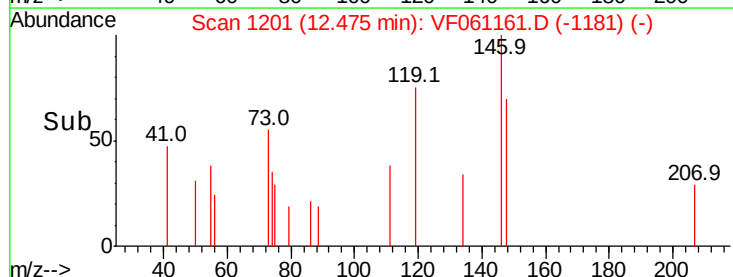
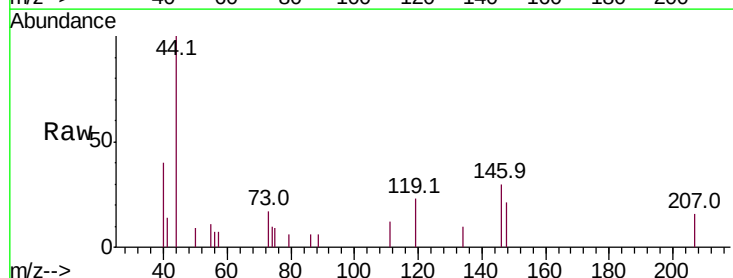
Tgt Ion: 146 Resp: 884

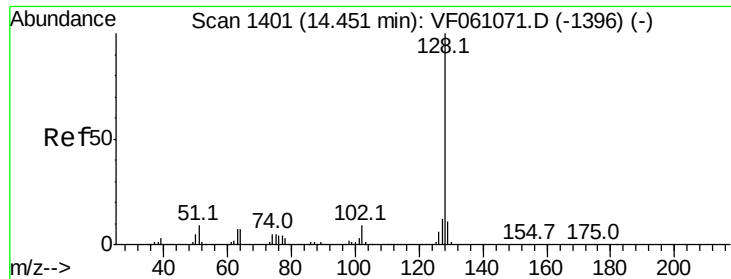
Ion Ratio Lower Upper

146 100

111 38.5 19.3 57.9

148 70.1 32.4 97.2





#95
Naphthalene
Concen: 1.105 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061161.D
Acq: 24 Dec 2018 13:17

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 4959
Ion Ratio Lower Upper
128 100
127 7.3 9.4 14.2#
129 12.4 8.8 13.2

