

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061105.D
 Acq On : 20 Dec 2018 13:50
 Operator : VA/AP
 Sample : J6377-03
 Misc : 2.97g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 21 06:41:05 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	4.87	168	170116	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	269440	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	151470	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	29244	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	91076	41.63	ug/l	0.01
Spiked Amount	50.000		Recovery	=	83.26%	
35) Dibromofluoromethane	4.13	113	91394	42.34	ug/l	0.01
Spiked Amount	50.000		Recovery	=	84.68%	
50) Toluene-d8	7.57	98	194084	31.73	ug/l	0.01
Spiked Amount	50.000		Recovery	=	63.46%	
62) 4-Bromofluorobenzene	11.41	95	42575	15.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	30.20%	

Target Compounds

					Qvalue	
11) Tert butyl alcohol	2.60	59	235	2.662	ug/l #	1
13) Acrolein	1.99	56	76675	1201.787	ug/l #	43
14) Allyl chloride	2.05	41	608962	390.224	ug/l #	45
15) Acrylonitrile	2.94	53	444685	2178.008	ug/l #	43
16) Acetone	2.24	43	428448	979.529	ug/l	95
18) Methyl Acetate	2.39	43	2437635	2693.677	ug/l #	66
20) Methylene Chloride	2.25	84	4154	Below Cal	#	1
24) 1,1-Dichloroethane	2.94	63	67558	21.935	ug/l #	90
25) 2-Butanone	4.35	43	58413	82.343	ug/l #	86
26) 2,2-Dichloropropane	3.69	77	6933	3.922	ug/l #	62
28) Bromochloromethane	3.69	49	2869	1.836	ug/l #	10
29) Tetrahydrofuran	4.01	42	33476	115.944	ug/l #	1
31) Cyclohexane	3.70	56	617507	193.217	ug/l	97
37) Ethyl Acetate	4.02	43	253324	Below Cal	#	12
39) Methylcyclohexane	5.47	83	1158711	397.123	ug/l	96
40) Benzene	4.64	78	114465	16.366	ug/l	98
41) Methacrylonitrile	4.69	41	284192	413.757	ug/l #	48
43) Isopropyl Acetate	7.04	43	3701	2.357	ug/l #	45
51) 4-Methyl-2-Pentanone	8.30	43	14529	13.490	ug/l #	47
52) Toluene	7.64	92	137362	29.669	ug/l	99
56) Ethyl methacrylate	8.62	69	10999	7.324	ug/l #	87
58) 2-Chloroethyl Vinyl ether	7.32	63	300	1.040	ug/l #	50
59) 2-Hexanone	9.50	43	4006	5.143	ug/l	82
65) Chlorobenzene	9.82	112	1993227	636.984	ug/l	96
67) Ethyl Benzene	9.92	91	437055	76.666	ug/l	100
68) m/p-Xylenes	10.24	106	15320354	7636.404	ug/l #	45
69) o-Xylene	10.72	106	126597	56.896	ug/l	94
70) Styrene	10.79	104	861	Below Cal	#	15
73) Isopropylbenzene	11.13	105	314408	124.760	ug/l	96
74) N-amyl acetate	11.38	43	1795	3.208	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	11.68	83	1969	4.708	ug/l #	46
76) 1,2,3-Trichloropropane	11.83	75	6717	21.580	ug/l #	1
78) n-propylbenzene	11.60	91	424868	Below Cal		99
79) 2-Chlorotoluene	11.71	91	159594	92.315	ug/l #	42

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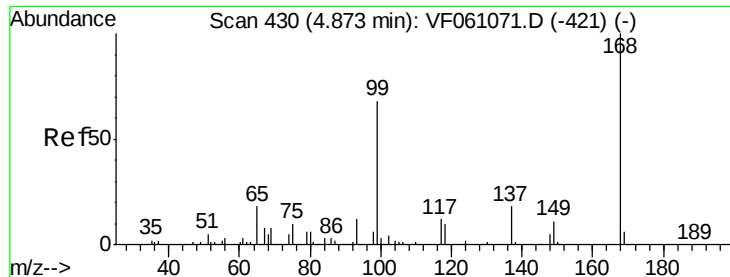
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

80) 1,3,5-Trimethylbenzene	11.83	105	635978	306.478	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.83	75	6717	50.219	ug/l #	1
82) 4-Chlorotoluene	11.91	91	3959	2.214	ug/l	76
83) tert-Butylbenzene	12.14	119	8612	4.033	ug/l #	24
84) 1,2,4-Trimethylbenzene	12.21	105	1760070	850.547	ug/l	92
85) sec-Butylbenzene	12.21	105	1760070	631.608	ug/l #	58
86) p-Isopropyltoluene	12.46	119	289508	125.163	ug/l	94
87) 1,3-Dichlorobenzene	12.48	146	137400	167.878	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	1285196	1290.160	ug/l	90
89) n-Butylbenzene	12.85	91	76720	30.070	ug/l #	67
90) Hexachloroethane	12.84	117	13032	22.804	ug/l #	27
91) 1,2-Dichlorobenzene	12.94	146	10195	10.512	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.61	75	457	5.954	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.21	180	1368	1.989	ug/l #	78
95) Naphthalene	14.46	128	262971	209.380	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	1490	2.343	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

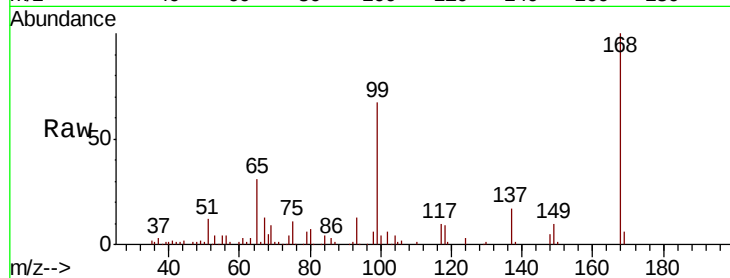
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 170116

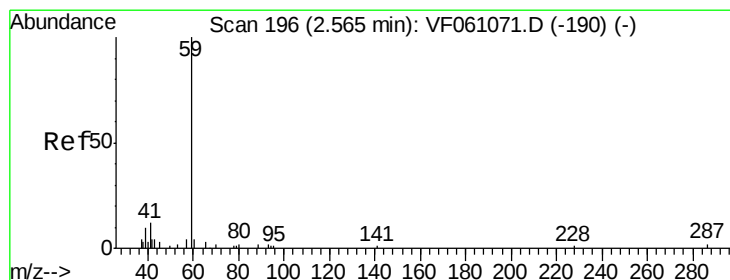
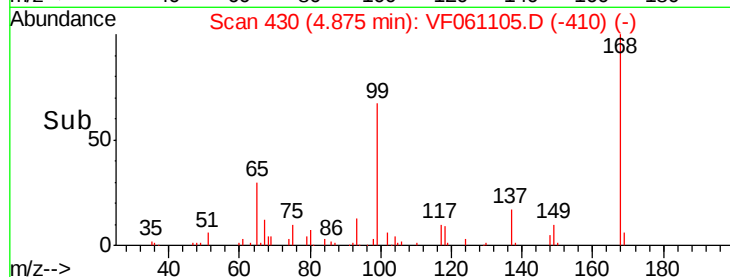
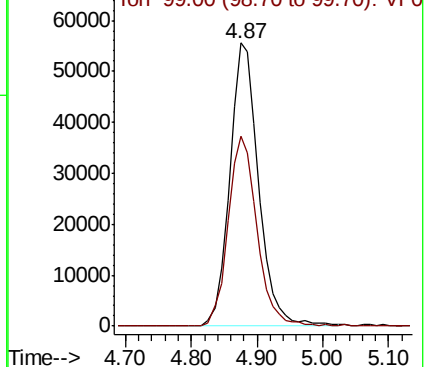
Ion Ratio Lower Upper

168 100

99 67.3 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF061105.D (-410) (-)



#11

Tert butyl alcohol

Concen: 2.662 ug/l

RT: 2.60 min Scan# 199

Delta R.T. 0.03 min

Lab File: VF061105.D

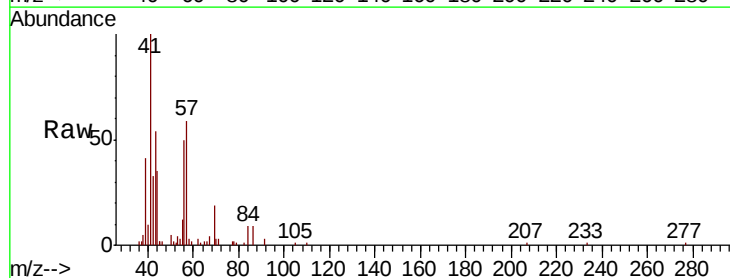
Acq: 20 Dec 2018 13:50

Tgt Ion: 59 Resp: 235

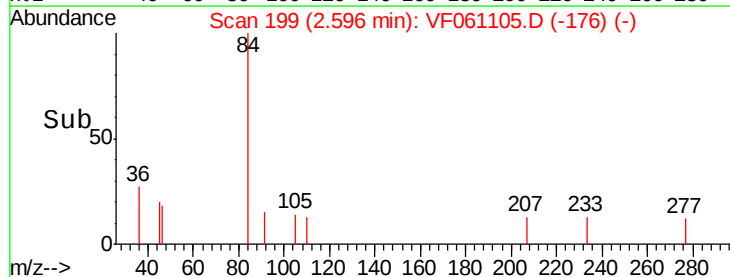
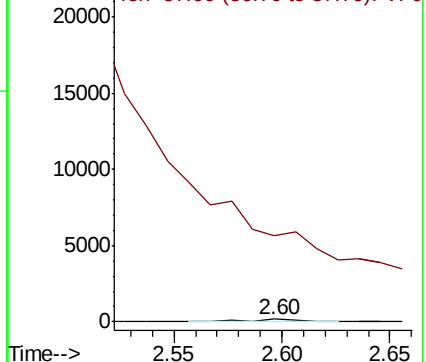
Ion Ratio Lower Upper

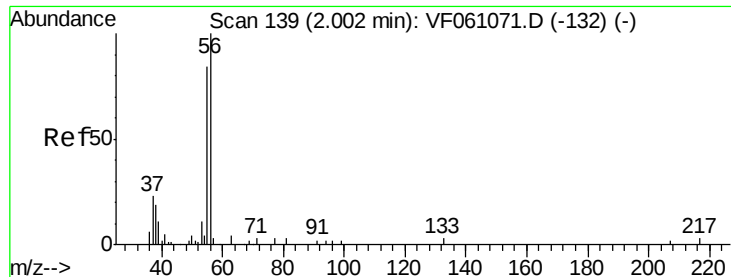
59 100

57 3111.5 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF061105.D (-176) (-)





#13

Acrolein

Concen: 1201.787 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

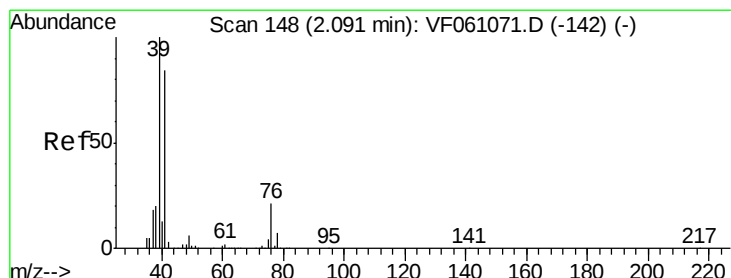
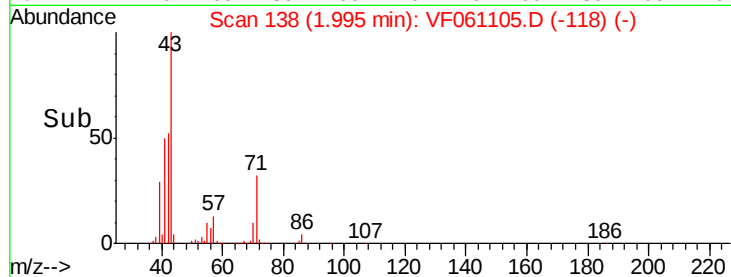
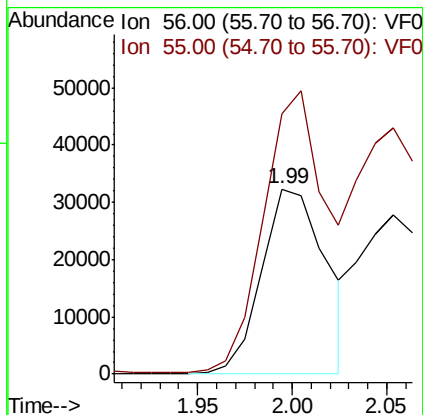
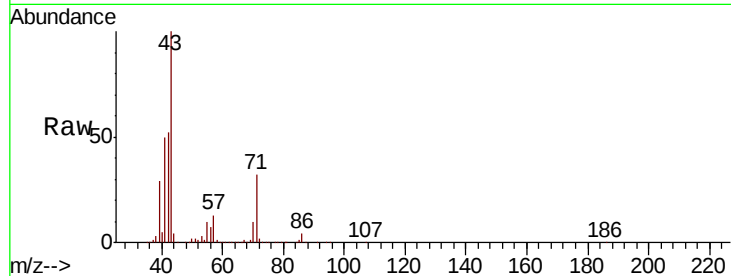
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 76675

Ion Ratio Lower Upper

56 100

55 140.4 70.2 105.2#



#14

Allyl chloride

Concen: 390.224 ug/l

RT: 2.05 min Scan# 144

Delta R.T. -0.04 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

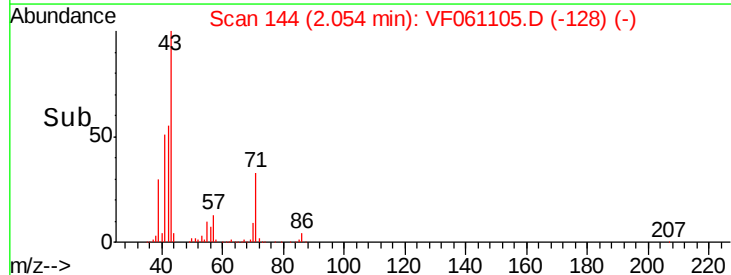
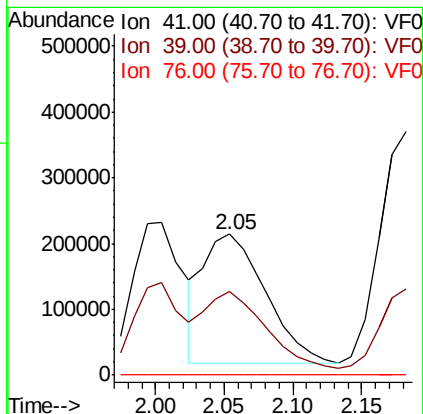
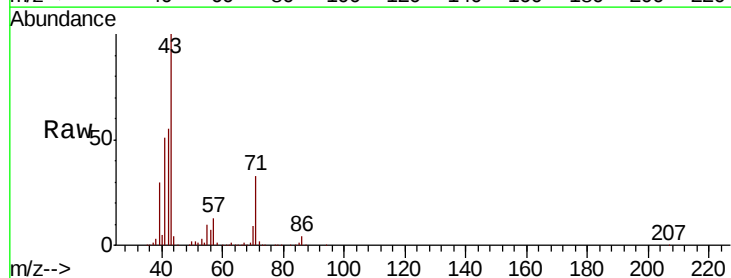
Tgt Ion: 41 Resp: 608962

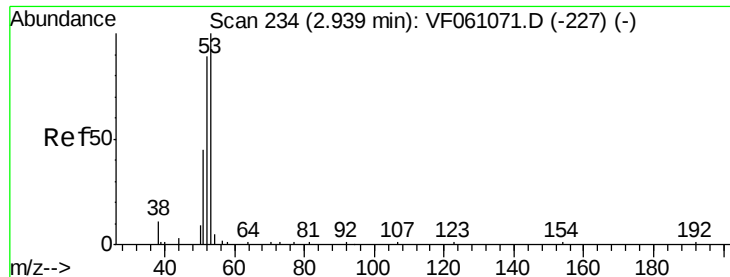
Ion Ratio Lower Upper

41 100

39 59.5 96.4 144.6#

76 0.0 25.4 38.0#





#15

Acrylonitrile

Concen: 2178.008 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampled :

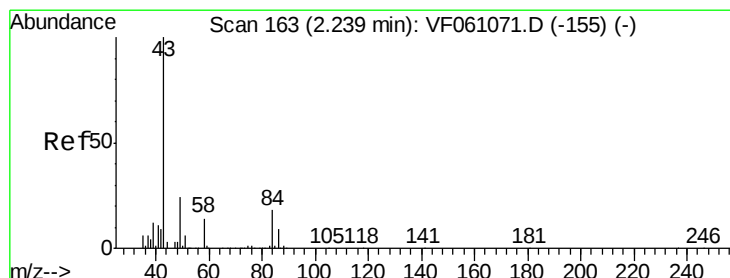
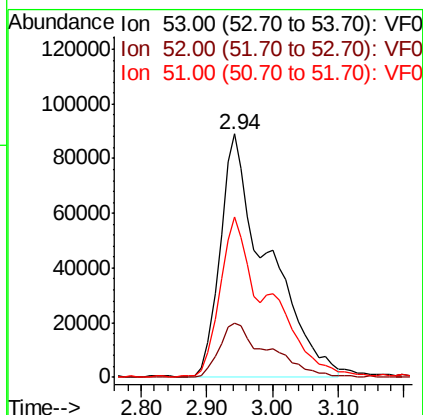
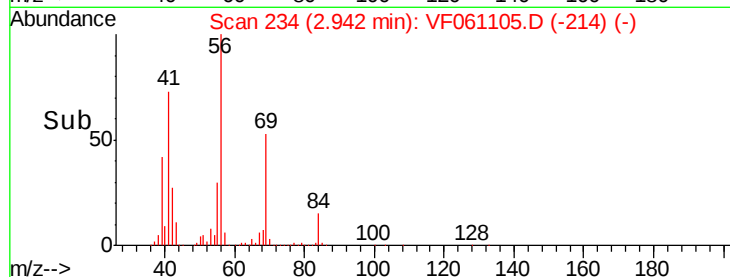
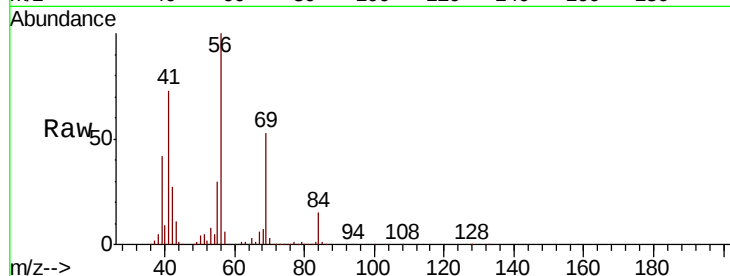
Tot Ion: 53 Resp: 444685

Ion Ratio Lower Upper

53 100

52 22.5 71.3 106.9#

51 65.8 36.8 55.2#



#16

Acetone

Concen: 979.529 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF061105.D

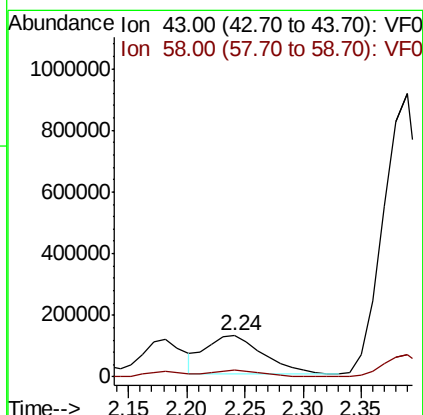
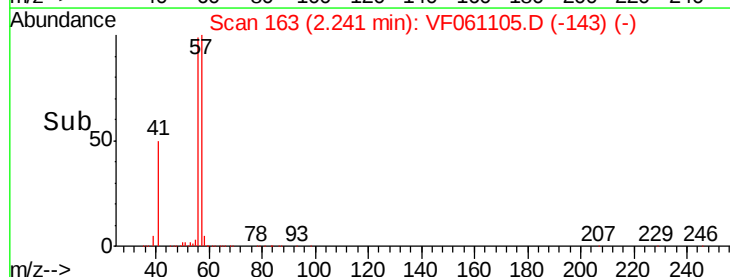
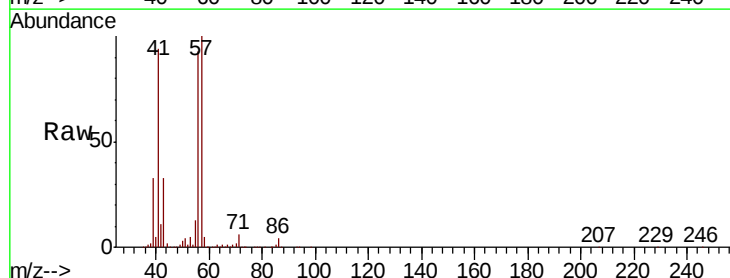
Acq: 20 Dec 2018 13:50

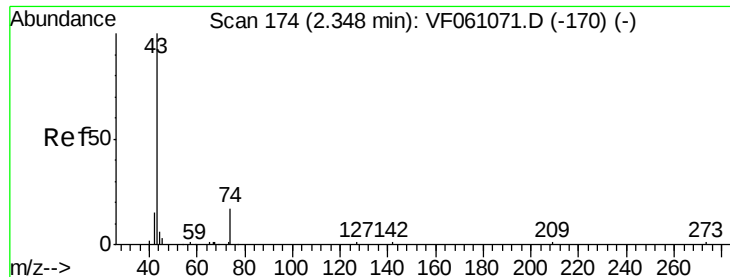
Tgt Ion: 43 Resp: 428448

Ion Ratio Lower Upper

43 100

58 15.9 11.1 16.7

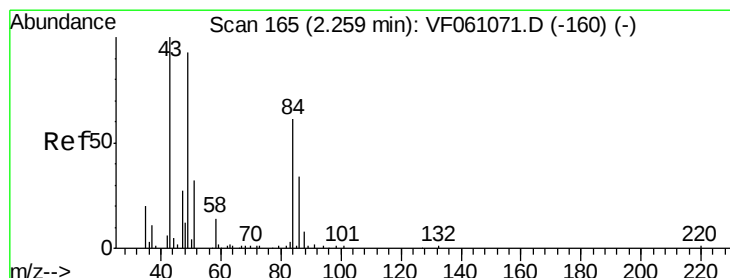
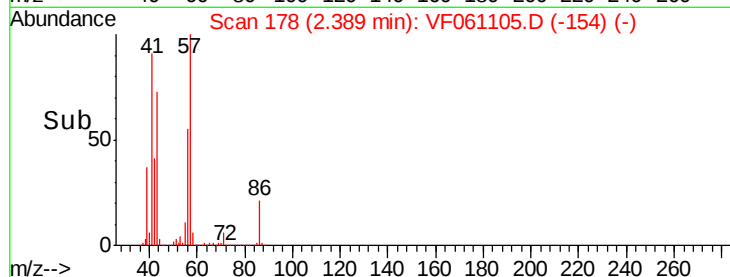
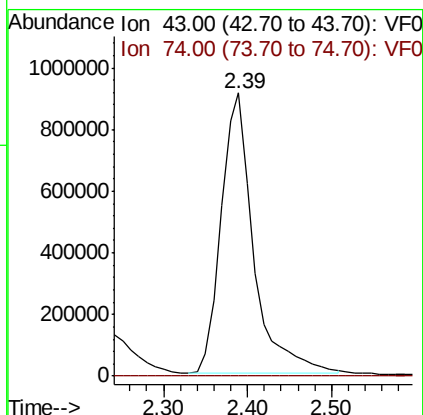
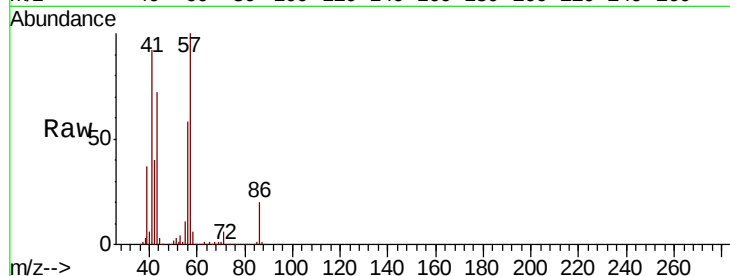




#18
Methyl Acetate
Concen: 2693.677 ug/l
RT: 2.39 min Scan# 178
Delta R.T. 0.04 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

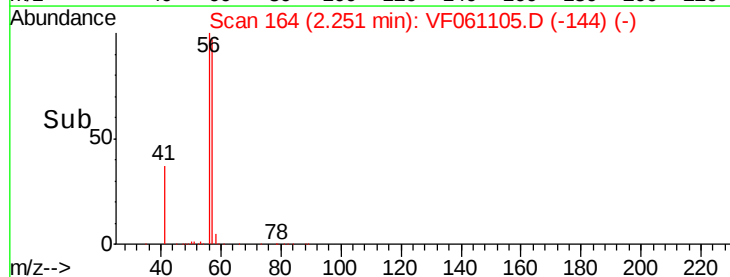
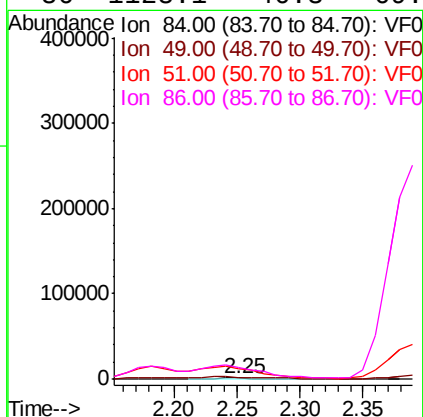
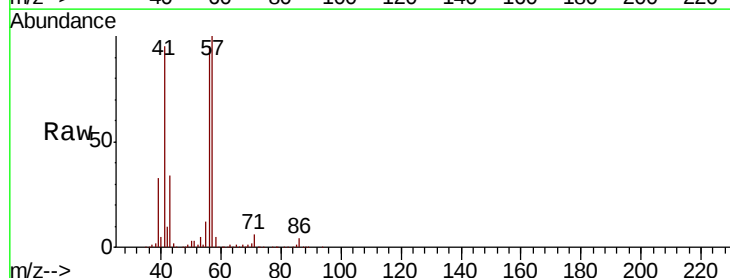
Instrument :
MSVOA_F
ClientSampled :

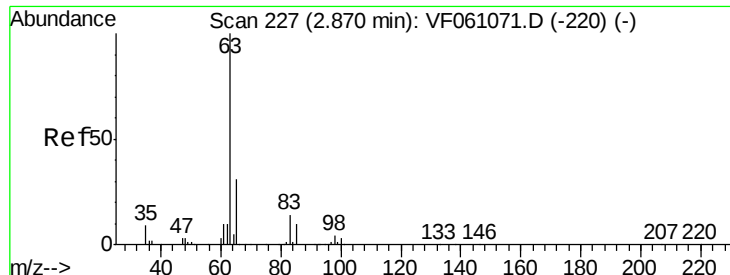
Tot Ion: 43 Resp: 2437635
Ion Ratio Lower Upper
43 100
74 0.2 11.0 16.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion: 84 Resp: 4154
Ion Ratio Lower Upper
84 100
49 172.9 129.4 194.2
51 949.3 44.0 66.0#
86 1128.1 46.3 69.5#





#24

1,1-Dichloroethane

Concen: 21.935 ug/l

RT: 2.94 min Scan# 234

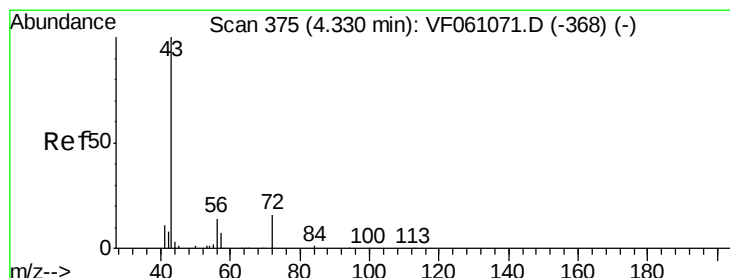
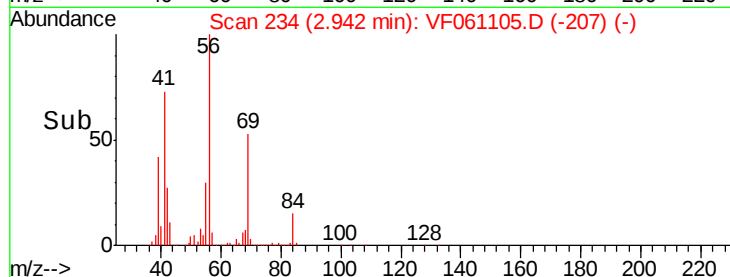
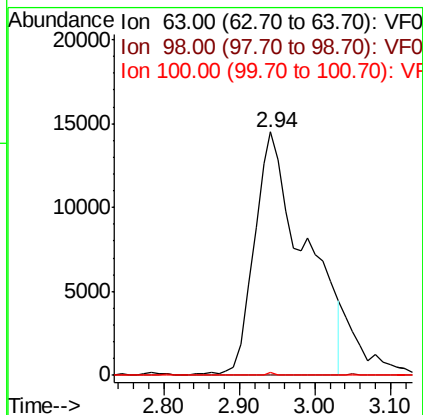
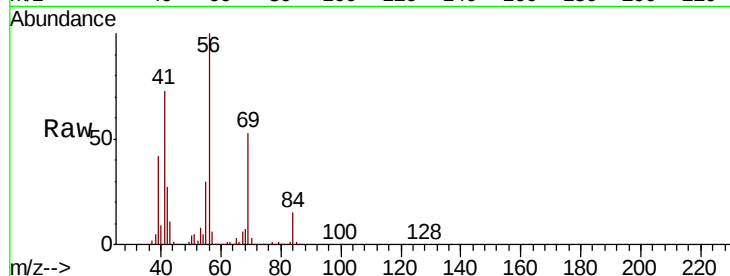
Delta R.T. 0.07 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	63	Resp:	67558
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.5#
100	1.1	1.7	5.1#



#25

2-Butanone

Concen: 82.343 ug/l

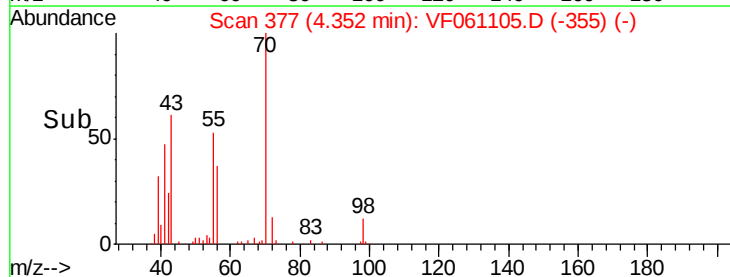
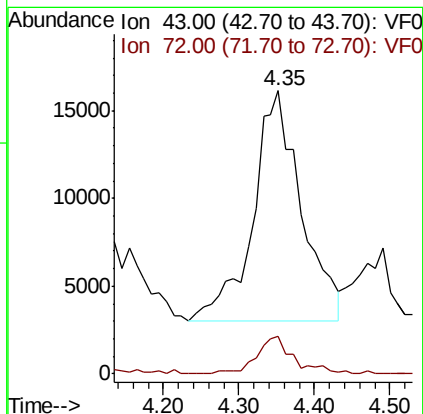
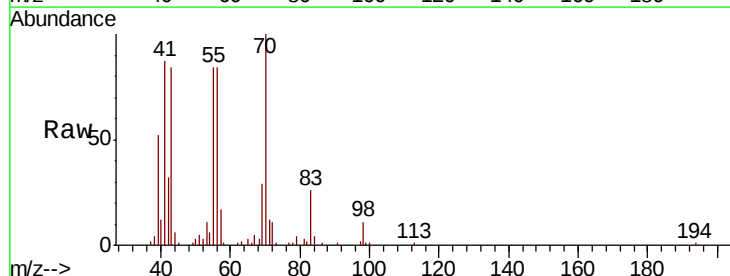
RT: 4.35 min Scan# 377

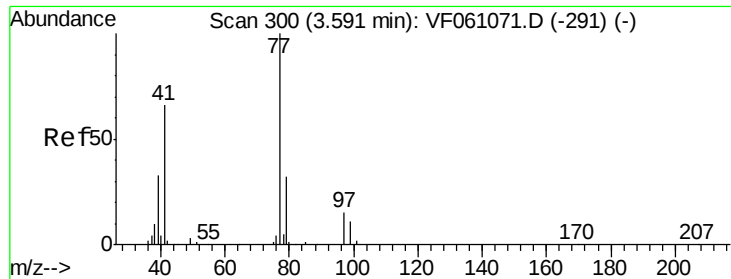
Delta R.T. 0.02 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Tgt Ion:	43	Resp:	58413
Ion	Ratio	Lower	Upper
43	100		
72	13.1	15.6	23.4#





#26

2,2-Dichloropropane

Concen: 3.922 ug/l

RT: 3.69 min Scan# 310

Delta R.T. 0.10 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

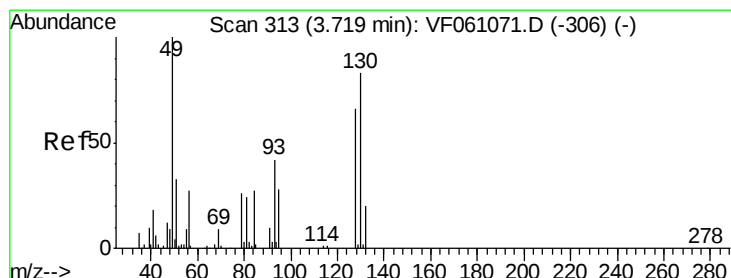
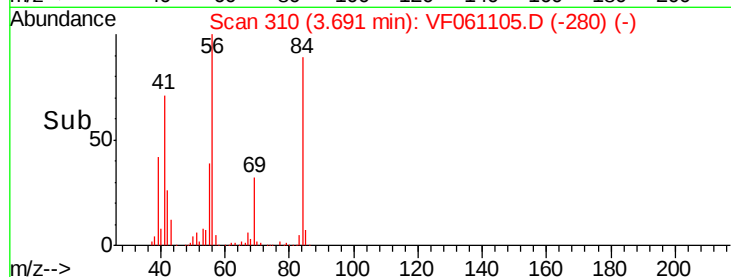
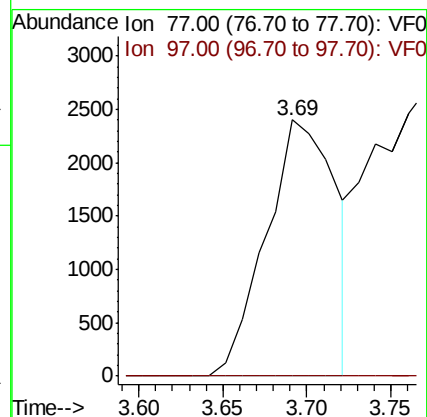
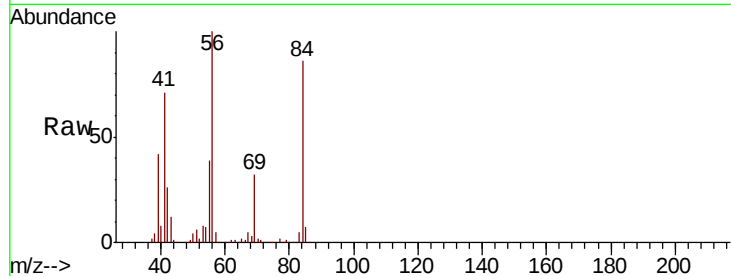
ClientSampleId :

Tot Ion: 77 Resp: 6933

Ion Ratio Lower Upper

77 100

97 0.0 8.2 24.4#



#28

Bromochloromethane

Concen: 1.836 ug/l

RT: 3.69 min Scan# 310

Delta R.T. -0.03 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

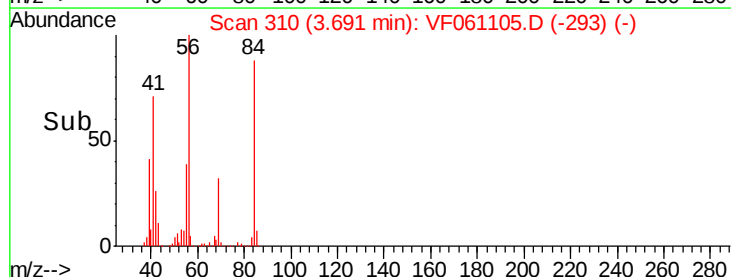
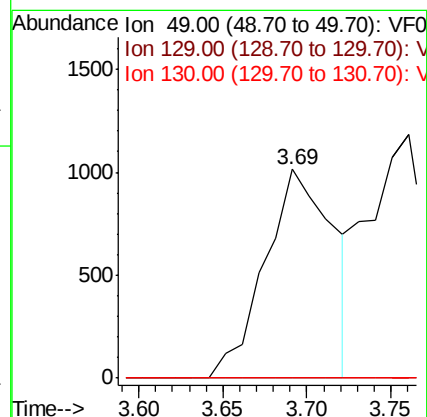
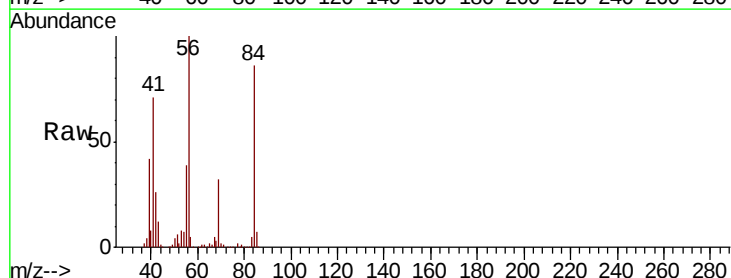
Tgt Ion: 49 Resp: 2869

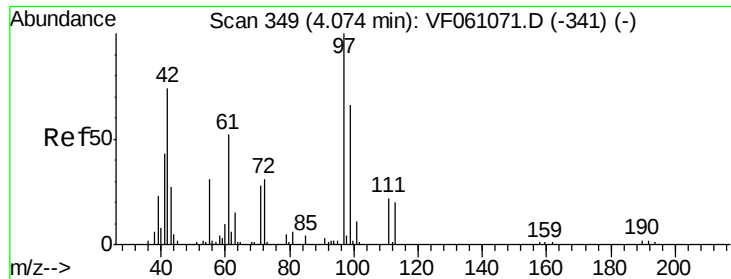
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 65.8 98.6#

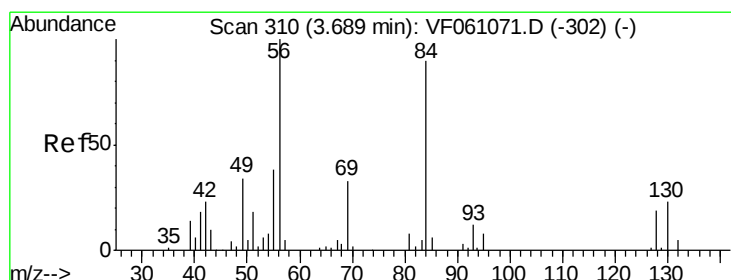
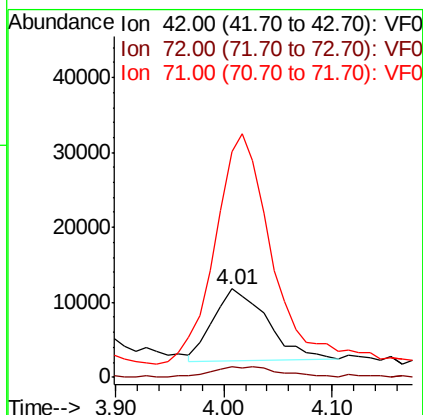
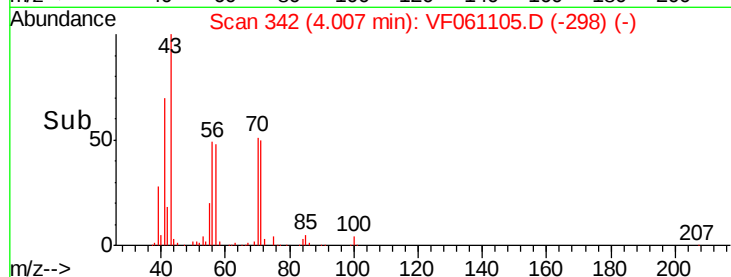
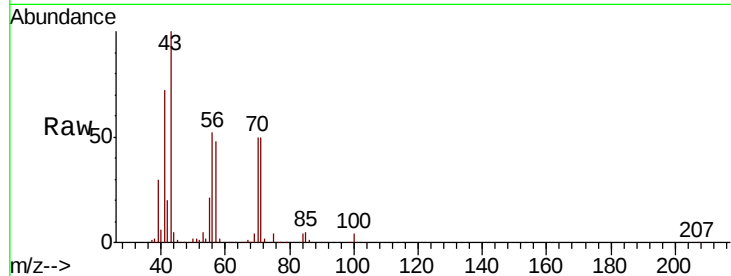




#29
Tetrahydrofuran
Concen: 115.944 ug/l
RT: 4.01 min Scan# 342
Delta R.T. -0.07 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

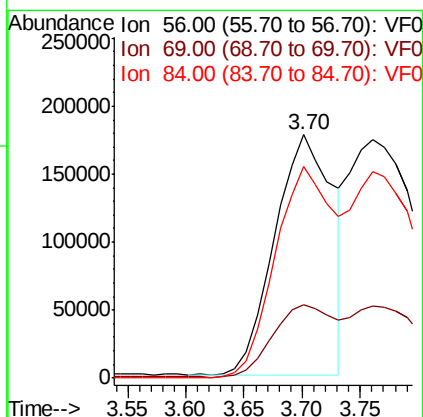
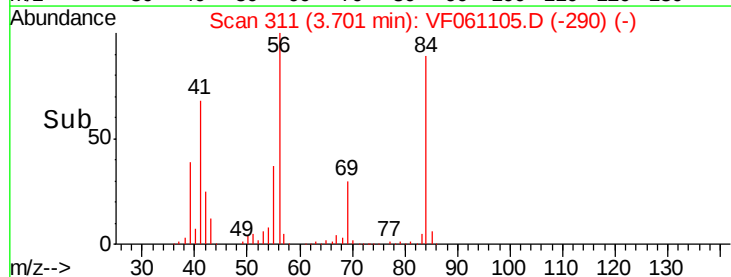
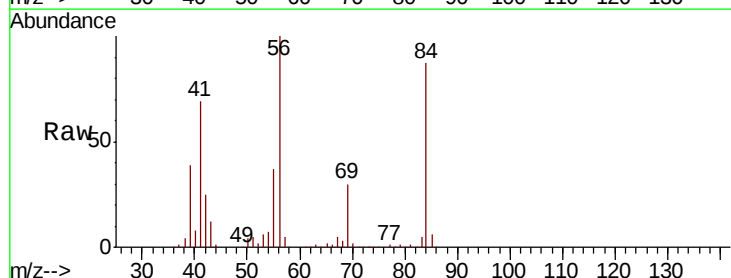
Instrument :
MSVOA_F
ClientSampleId :

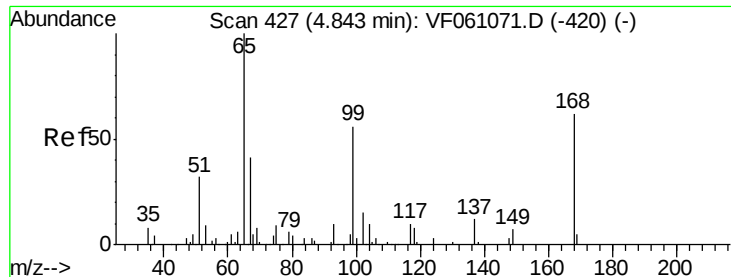
Tot Ion: 42 Resp: 33476
Ion Ratio Lower Upper
42 100
72 19.3 31.8 47.8#
71 382.0 29.7 44.5#



#31
Cyclohexane
Concen: 193.217 ug/l
RT: 3.70 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion: 56 Resp: 617507
Ion Ratio Lower Upper
56 100
69 30.2 26.0 39.0
84 87.1 71.4 107.2





#33

1,2-Dichloroethane-d4

Concen: 41.626 ug/l

RT: 4.86 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

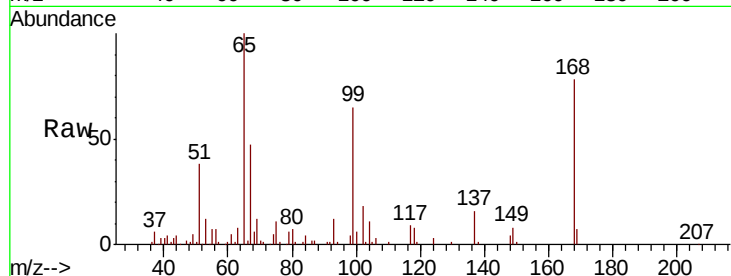
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 91076

Ion Ratio Lower Upper

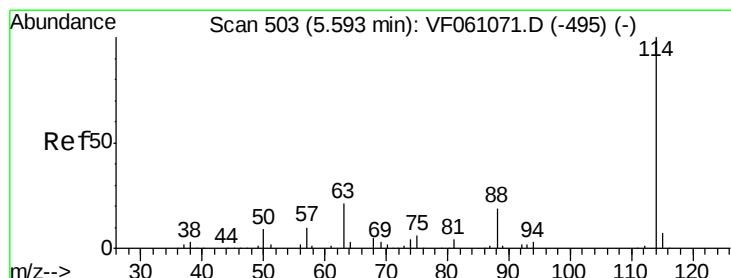
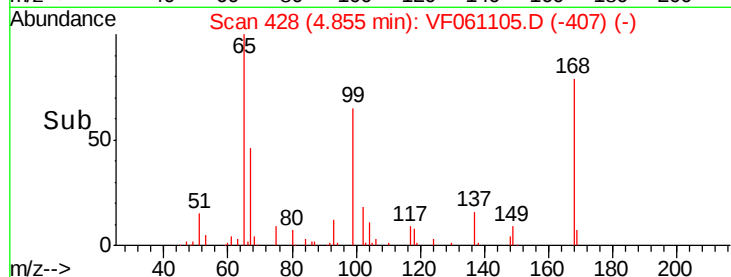
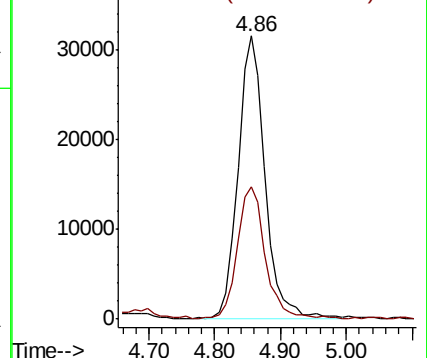
65 100

67 46.6 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: VF061105.D

Acq: 20 Dec 2018 13:50

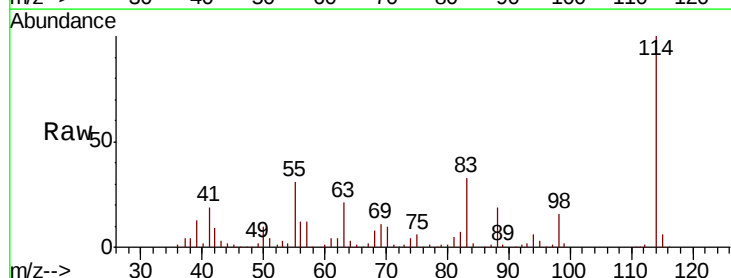
Tgt Ion: 114 Resp: 269440

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.6

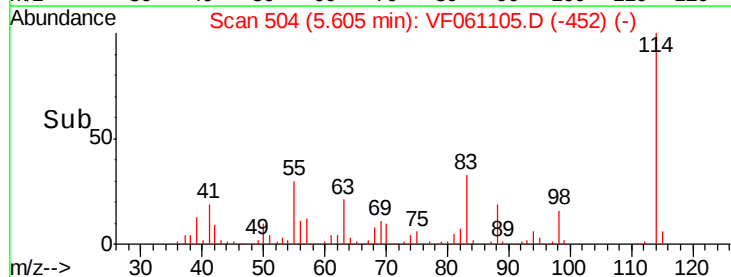
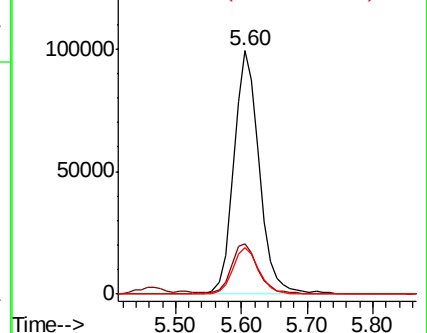
88 19.1 0.0 38.0

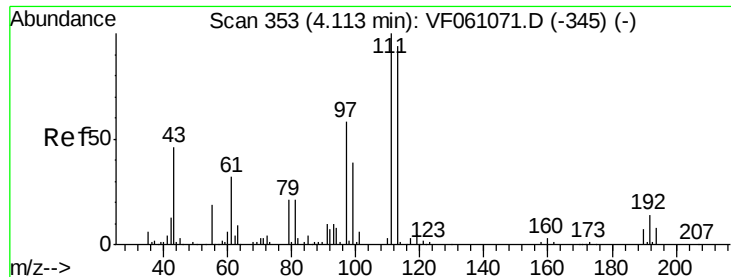


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

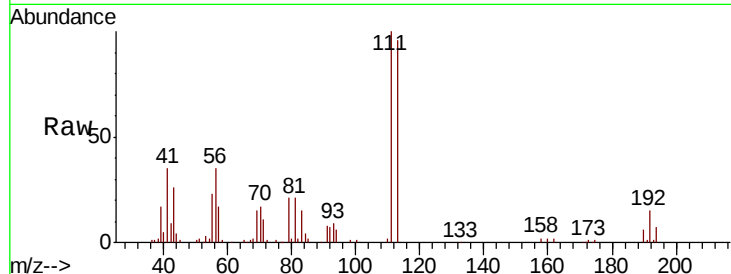




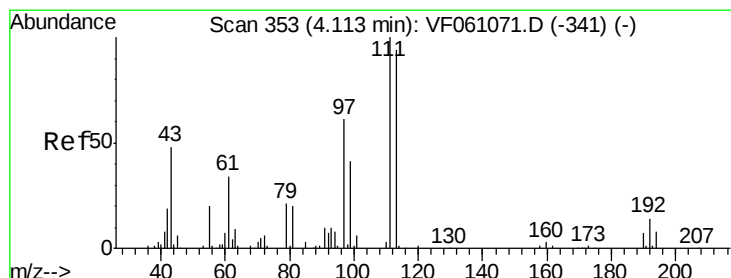
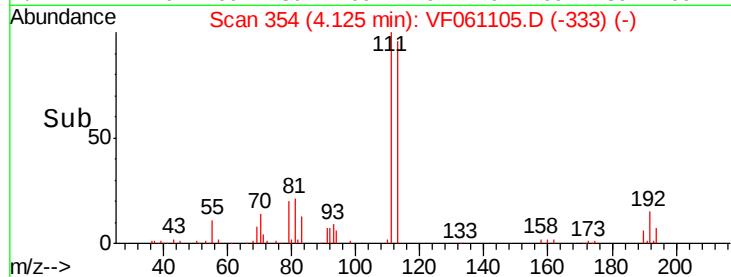
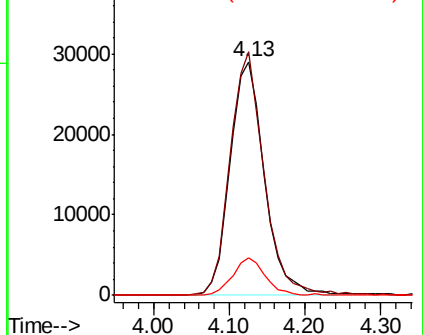
#35
 Dibromofluoromethane
 Concen: 42.344 ug/l
 RT: 4.13 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:113 Resp: 91394
 Ion Ratio Lower Upper
 113 100
 111 104.2 85.2 127.8
 192 16.1 12.8 19.2

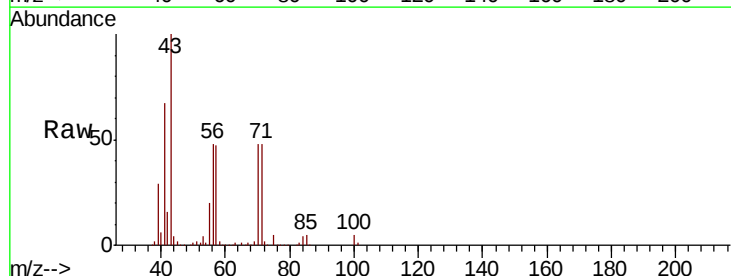


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

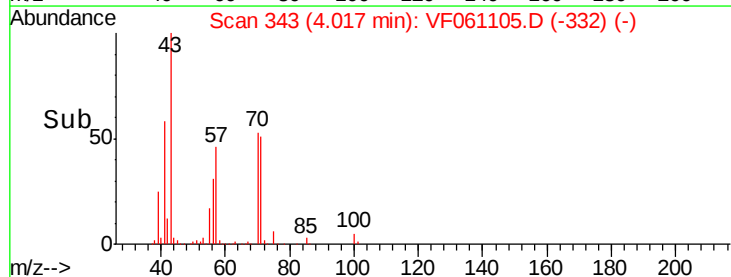
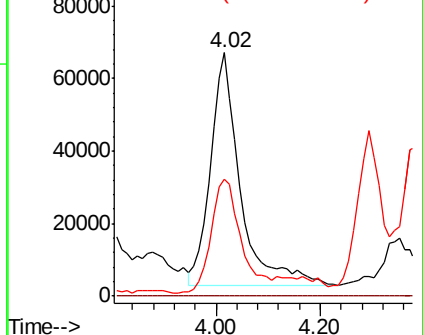


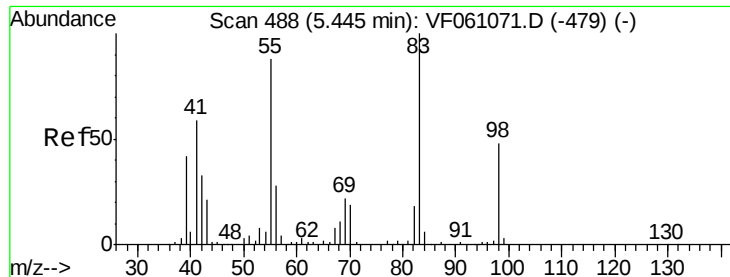
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.02 min Scan# 343
 Delta R.T. -0.10 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Tgt Ion: 43 Resp: 253324
 Ion Ratio Lower Upper
 43 100
 61 0.2 56.6 84.8#
 70 47.9 6.3 9.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 70.00 (69.70 to 70.70): VF0

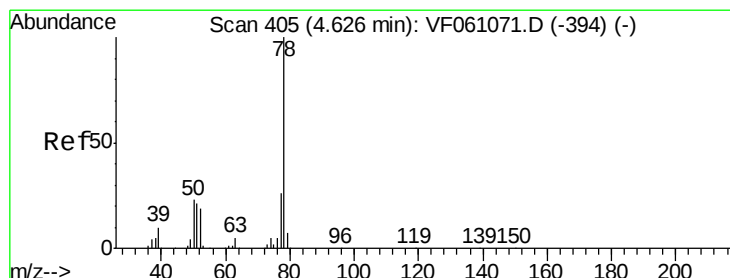
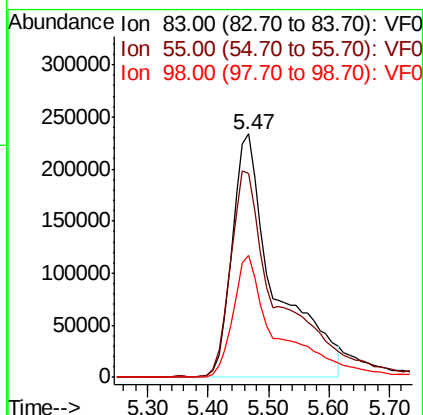
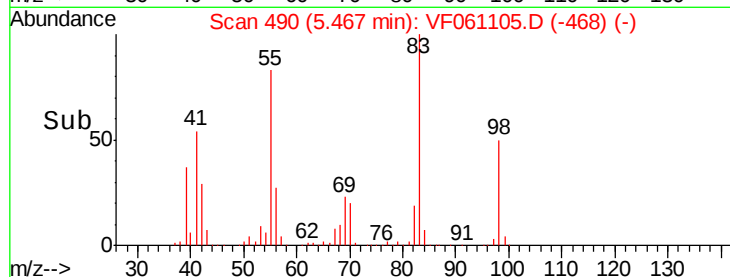
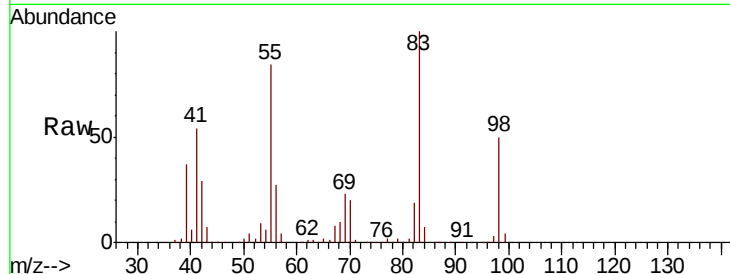




#39
Methvlcvclohexane
Concen: 397.123 ug/l
RT: 5.47 min Scan# 490
Delta R.T. 0.02 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

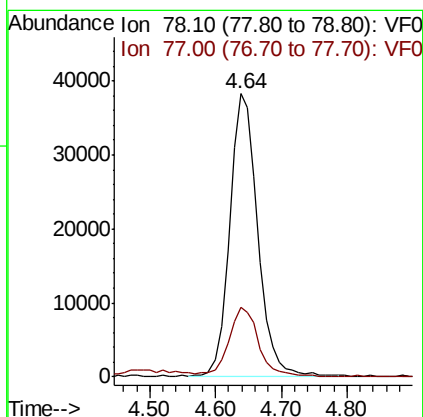
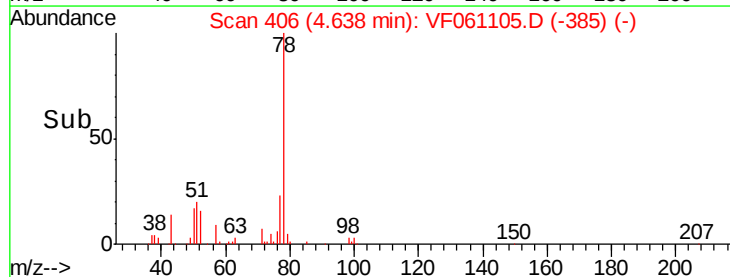
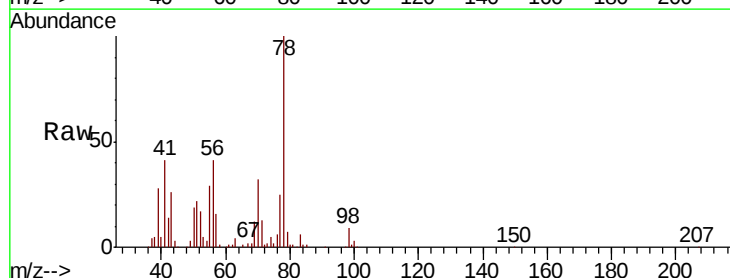
Instrument :
MSVOA_F
ClientSampleId :

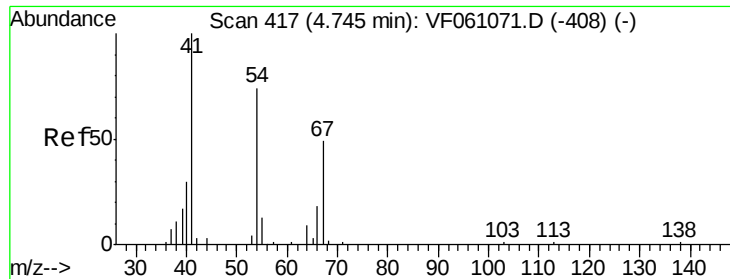
Tot Ion: 83 Resp: 1158711
Ion Ratio Lower Upper
83 100
55 83.5 70.6 105.8
98 50.3 38.5 57.7



#40
Benzene
Concen: 16.366 ug/l
RT: 4.64 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion: 78 Resp: 114465
Ion Ratio Lower Upper
78 100
77 24.8 20.7 31.1

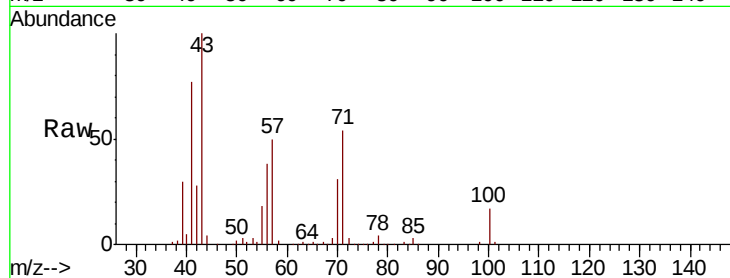




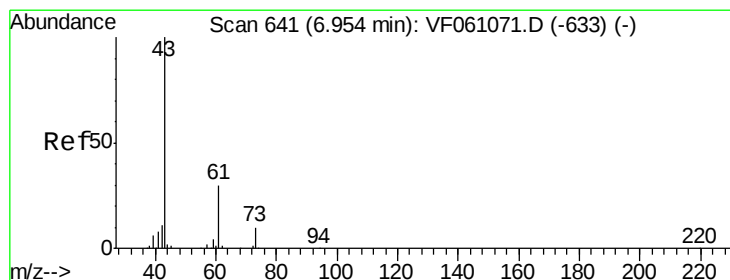
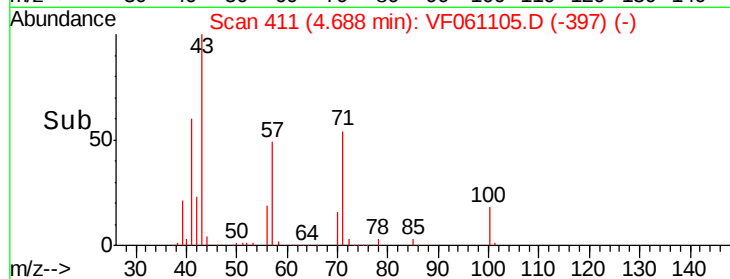
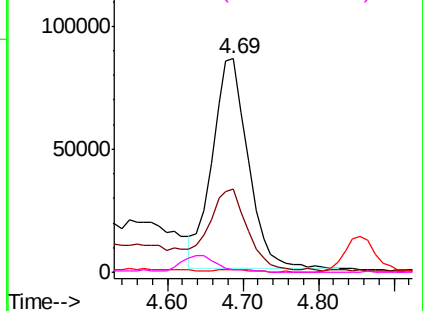
#41
Methacrylonitrile
Concen: 413.757 ug/l
RT: 4.69 min Scan# 411
Delta R.T. -0.06 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
41	100		
39	38.7	45.7	68.5#
67	1.0	38.9	58.3#
52	1.3	35.2	52.8#

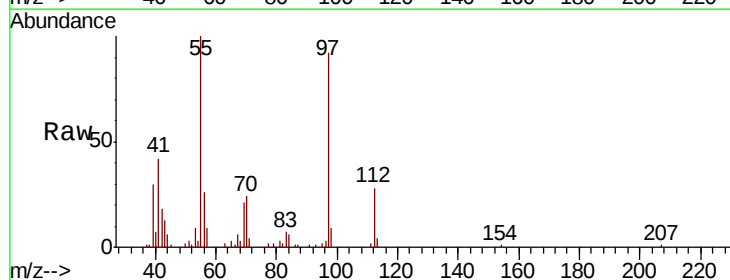


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

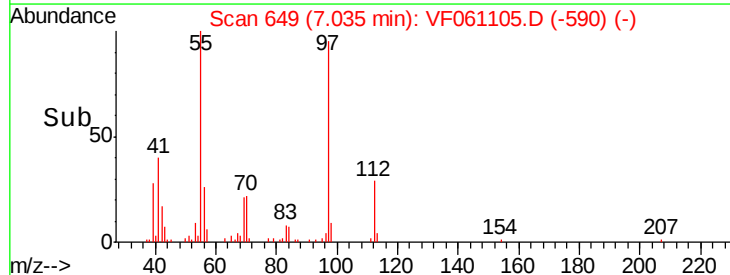
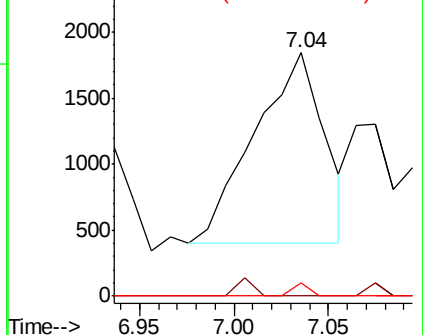


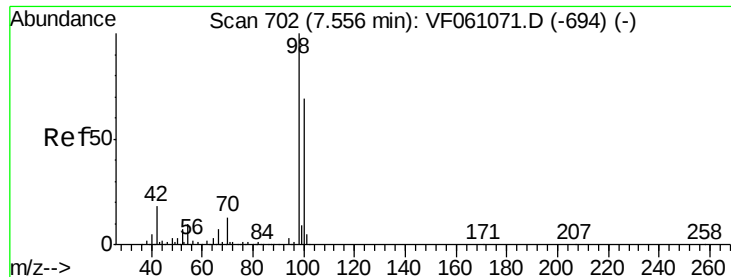
#43
Isopropyl Acetate
Concen: 2.357 ug/l
RT: 7.04 min Scan# 649
Delta R.T. 0.08 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.8	35.8#
87	5.7	0.0	0.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0





#50

Toluene-d8

Concen: 31.731 ug/l

RT: 7.57 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

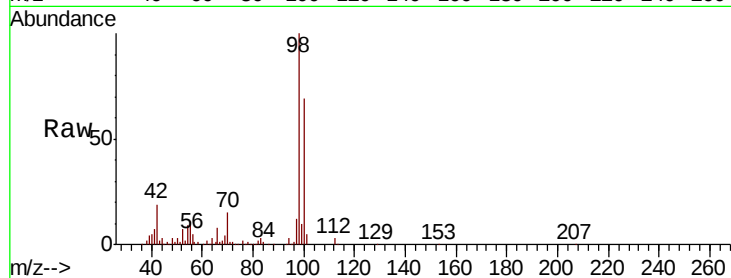
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 194084

Ion Ratio Lower Upper

98 100

100 69.4 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.57

80000

60000

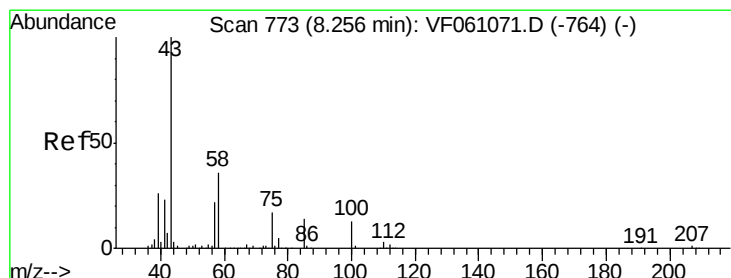
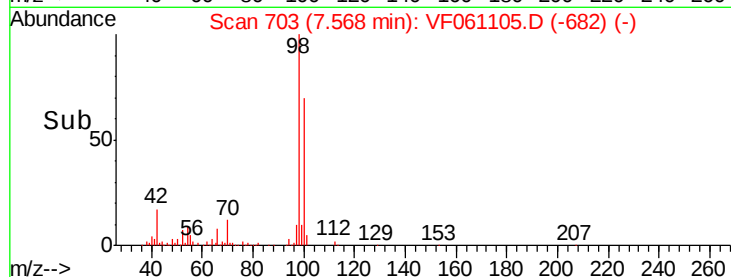
40000

20000

0

7.40 7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 13.490 ug/l

RT: 8.30 min Scan# 777

Delta R.T. 0.04 min

Lab File: VF061105.D

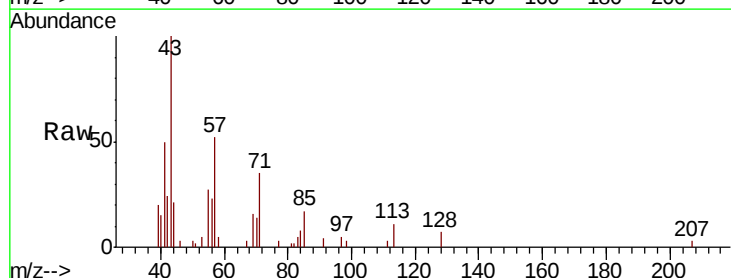
Acq: 20 Dec 2018 13:50

Tgt Ion: 43 Resp: 14529

Ion Ratio Lower Upper

43 100

58 5.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.30

6000

5000

4000

3000

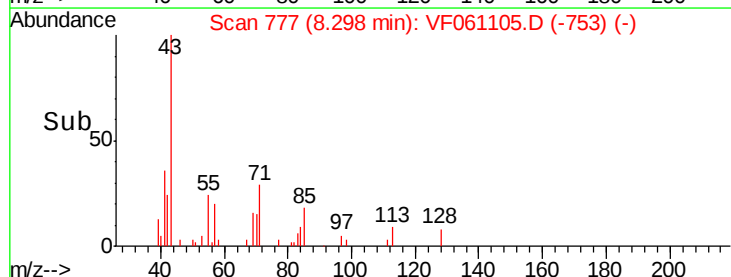
2000

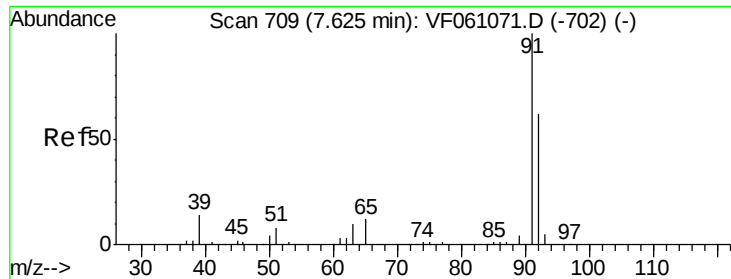
1000

0

8.20 8.30 8.40

Time-->





#52

Toluene

Concen: 29.669 ug/l

RT: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

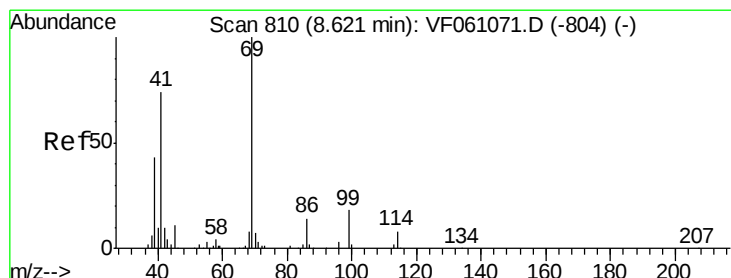
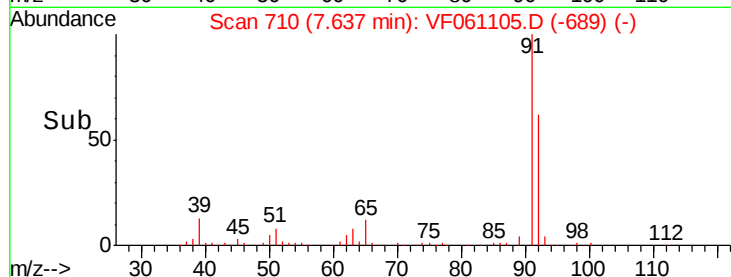
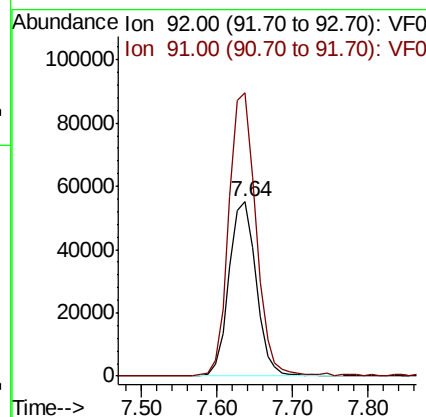
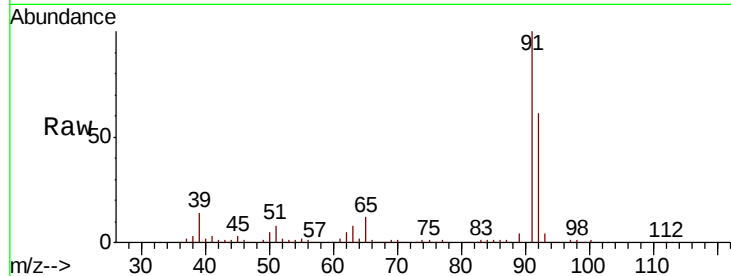
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 137362

Ion Ratio Lower Upper

92 100

91 162.7 128.8 193.2



#56

Ethyl methacrylate

Concen: 7.324 ug/l

RT: 8.62 min Scan# 810

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

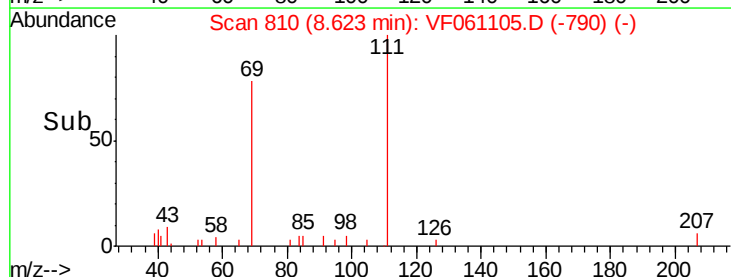
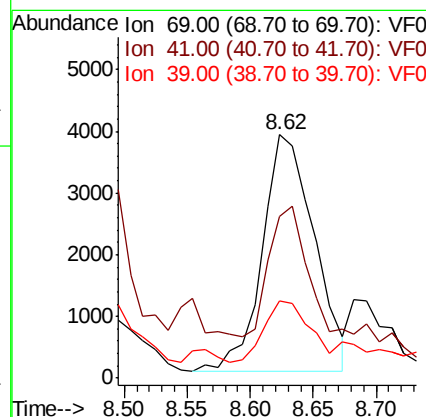
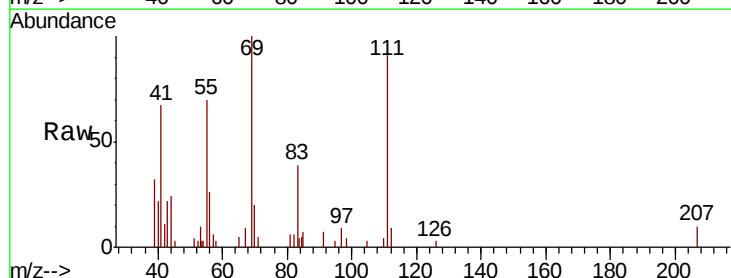
Tgt Ion: 69 Resp: 10999

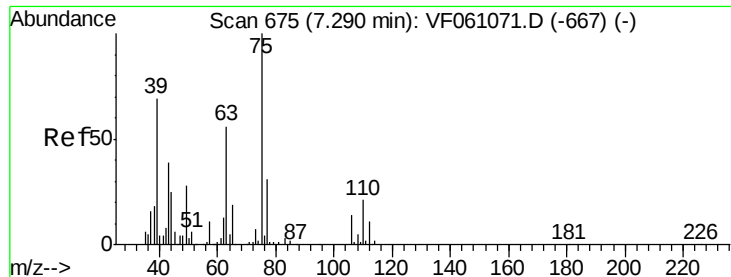
Ion Ratio Lower Upper

69 100

41 66.5 59.7 89.5

39 31.9 35.0 52.6#





#58

2-Chloroethyl Vinyl ether

Concen: 1.040 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.03 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

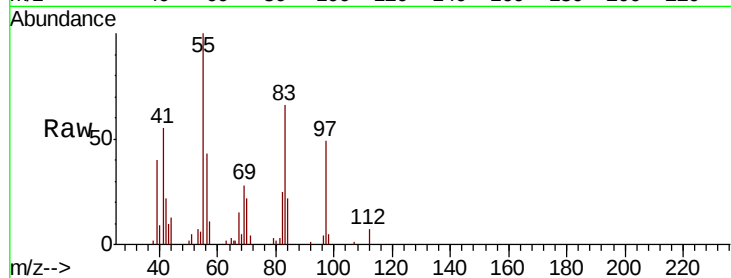
ClientSampled :

Tot Ion: 63 Resp: 300

Ion Ratio Lower Upper

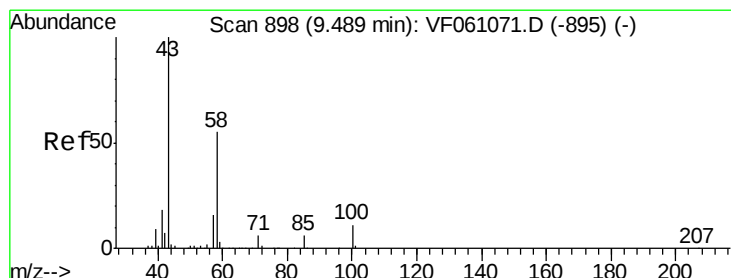
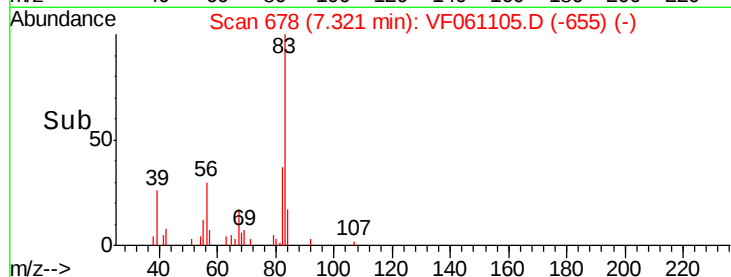
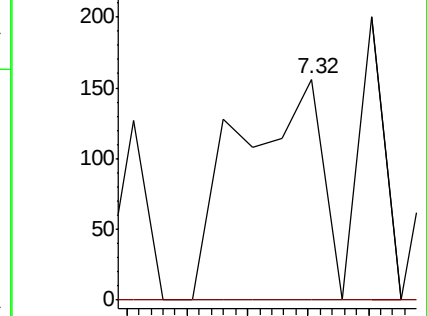
63 100

106 0.0 19.8 29.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 5.143 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.01 min

Lab File: VF061105.D

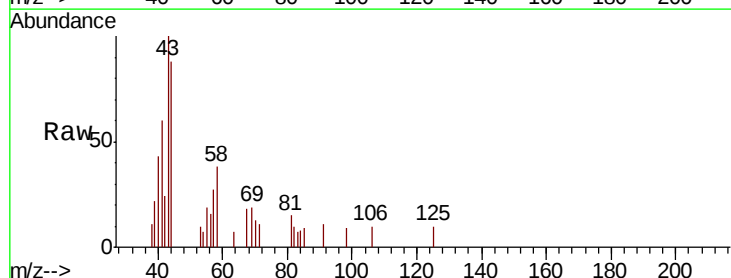
Acq: 20 Dec 2018 13:50

Tgt Ion: 43 Resp: 4006

Ion Ratio Lower Upper

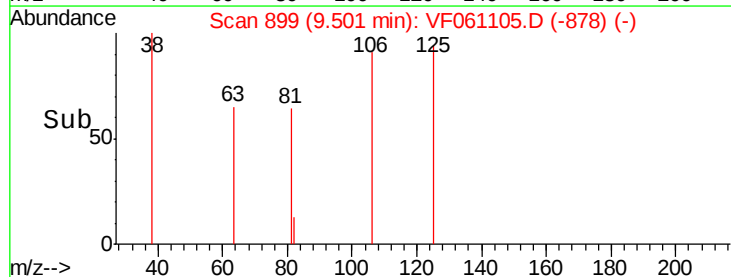
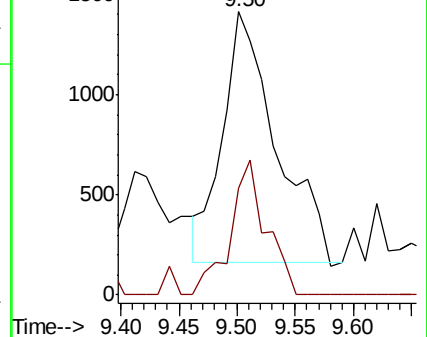
43 100

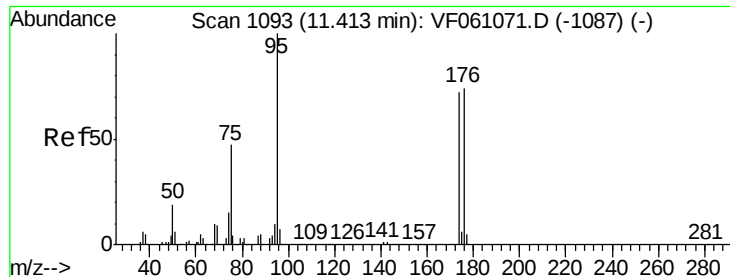
58 37.6 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 15.099 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

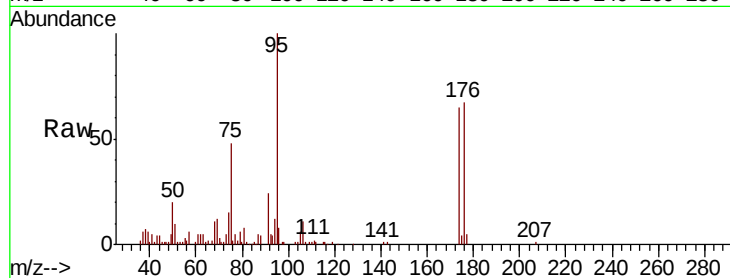
Tot Ion: 95 Resp: 42575

Ion Ratio Lower Upper

95 100

174 64.9 0.0 143.8

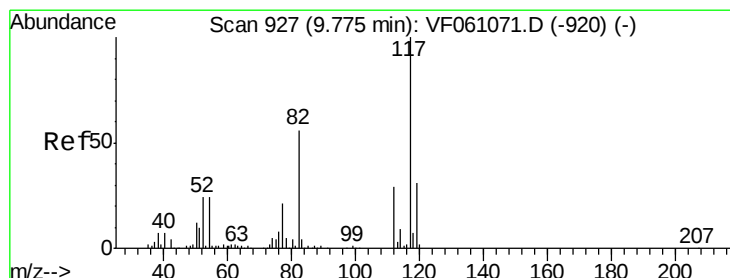
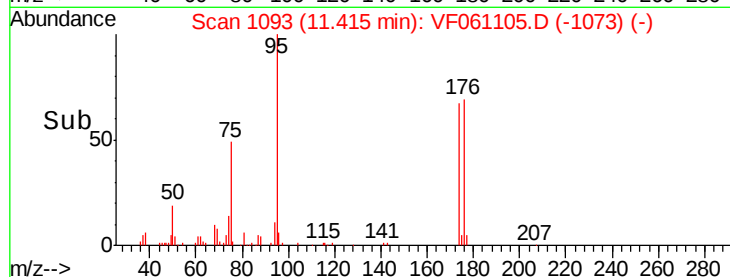
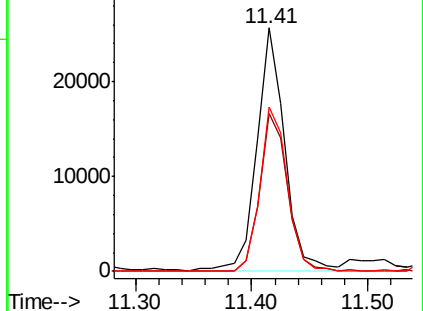
176 67.3 0.0 147.6



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: 9.79 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

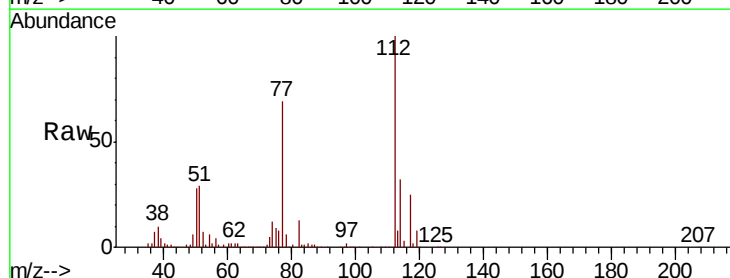
Tgt Ion: 117 Resp: 151470

Ion Ratio Lower Upper

117 100

82 54.6 45.0 67.4

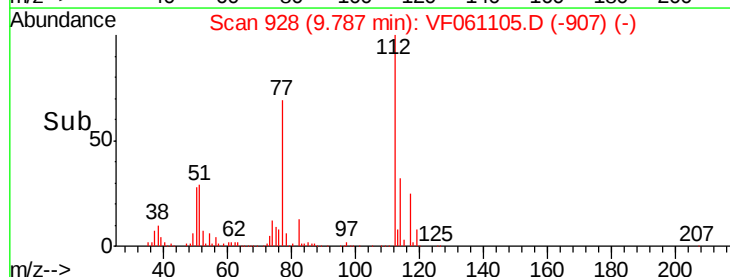
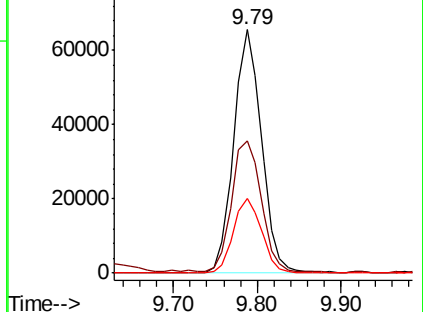
119 30.6 24.8 37.2

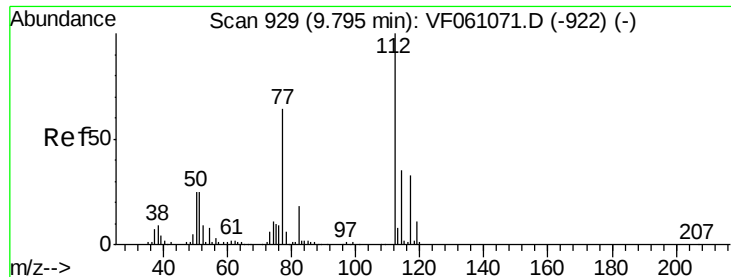


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

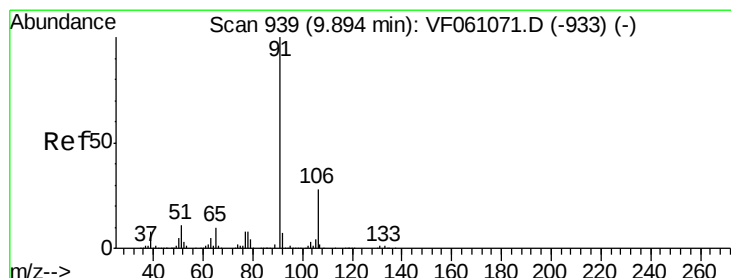
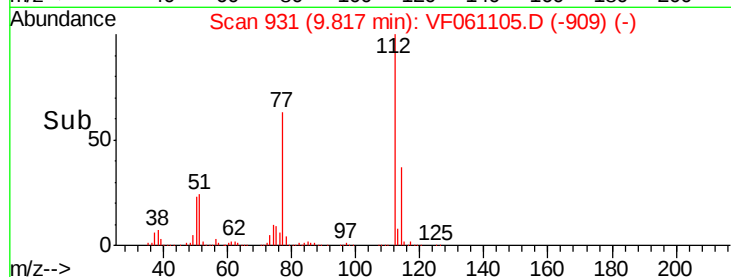
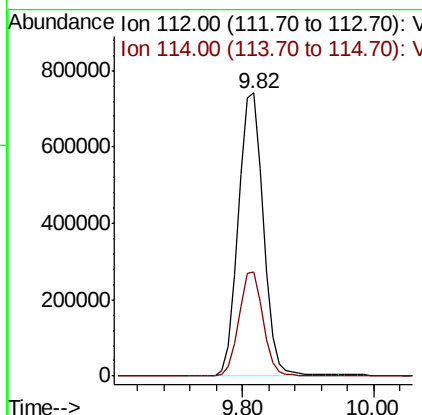
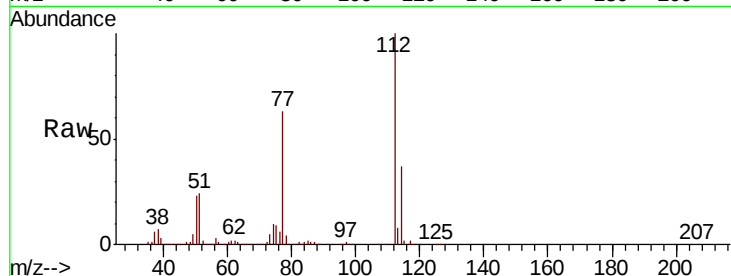




#65
Chlorobenzene
Concen: 636.984 ug/l
RT: 9.82 min Scan# 931
Delta R.T. 0.02 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

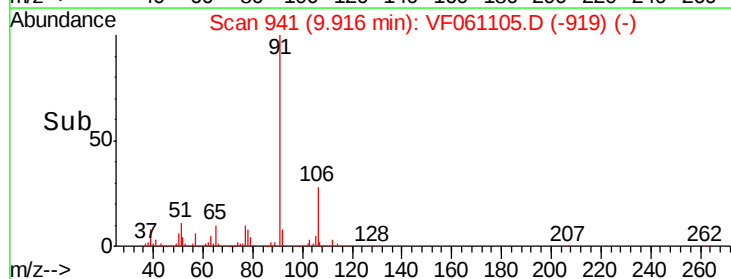
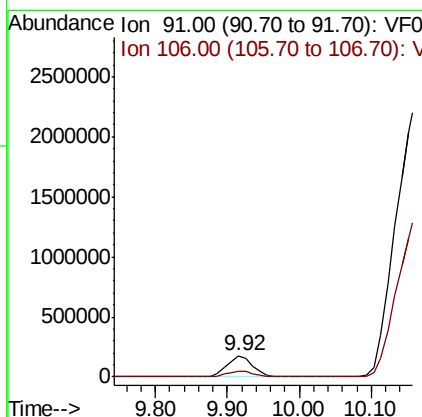
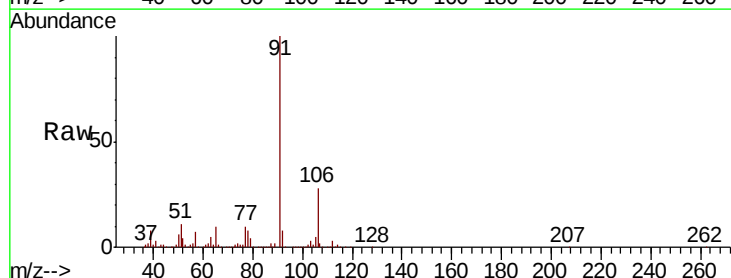
Instrument :
MSVOA_F
ClientSampleId :

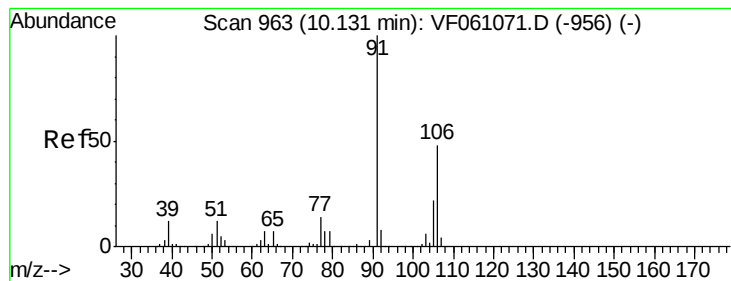
Tot Ion:112 Resp: 1993227
Ion Ratio Lower Upper
112 100
114 36.9 27.8 41.6



#67
Ethyl Benzene
Concen: 76.666 ug/l
RT: 9.92 min Scan# 941
Delta R.T. 0.02 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion: 91 Resp: 437055
Ion Ratio Lower Upper
91 100
106 28.1 22.5 33.7





#68

m/p-Xylenes

Concen: 7636.404 ug/l

RT: 10.24 min Scan# 974

Delta R.T. 0.11 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

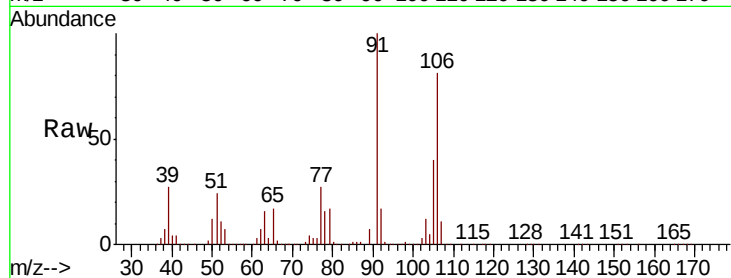
ClientSampleId :

Tot Ion:106 Resp:15320354

Ion Ratio Lower Upper

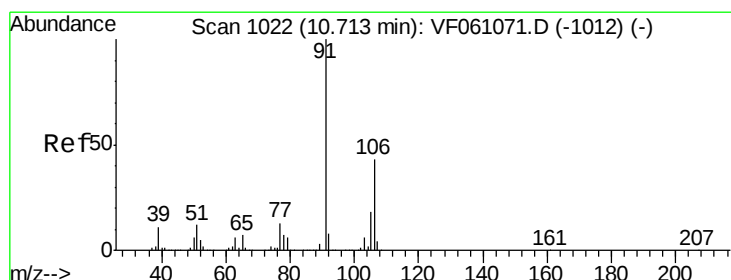
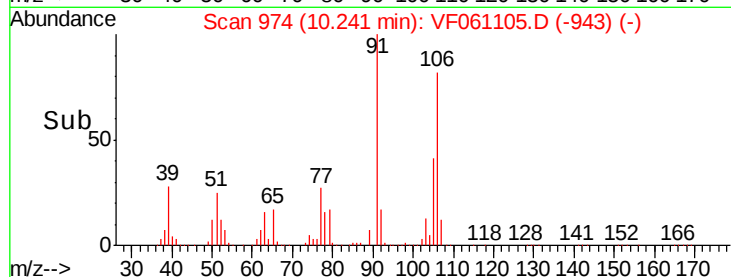
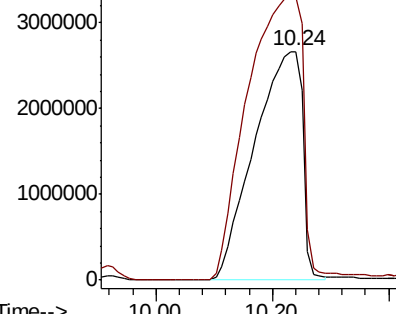
106 100

91 123.8 168.2 252.2#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 56.896 ug/l

RT: 10.72 min Scan# 1023

Delta R.T. 0.01 min

Lab File: VF061105.D

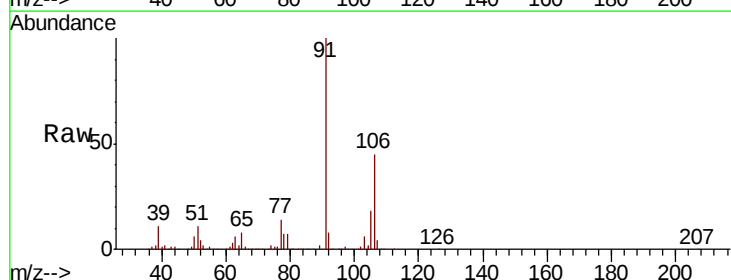
Acq: 20 Dec 2018 13:50

Tgt Ion:106 Resp: 126597

Ion Ratio Lower Upper

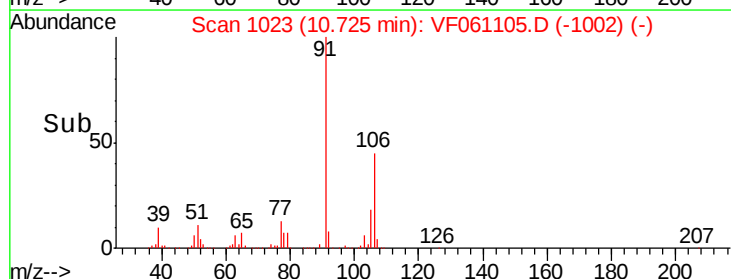
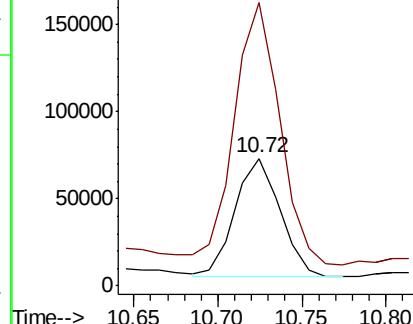
106 100

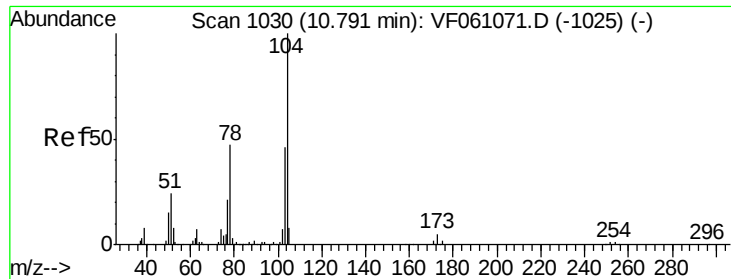
91 222.0 115.9 347.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

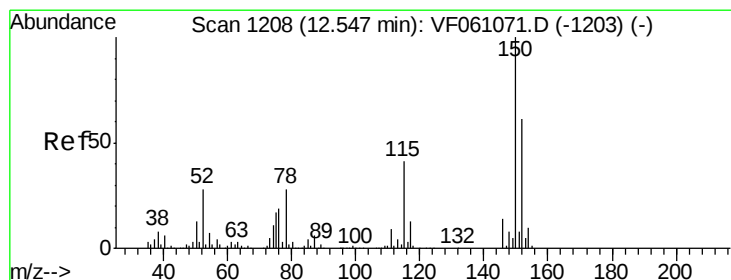
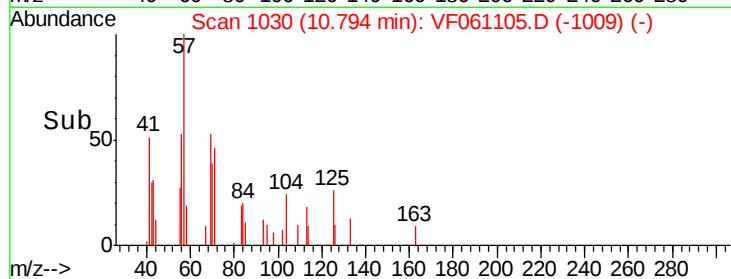
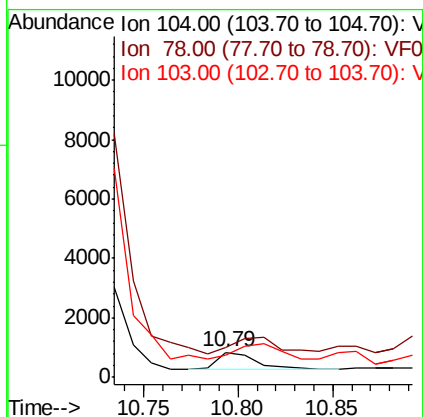
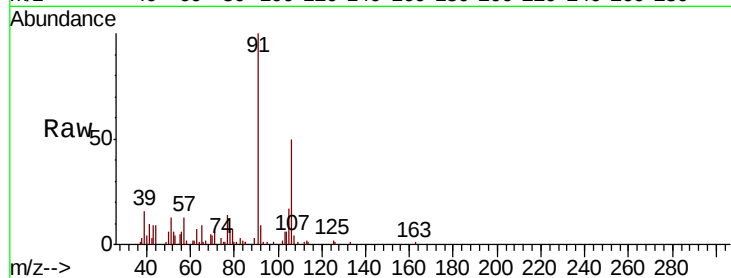




#70
Stvrene
Concen: Below Cal
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

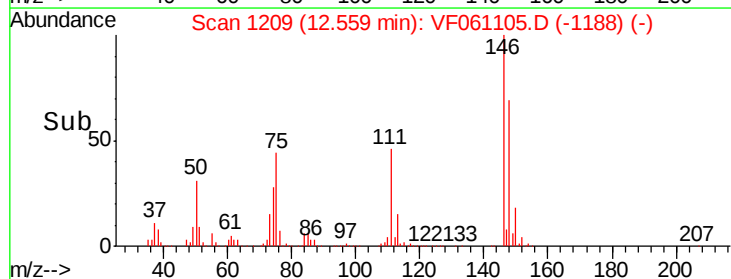
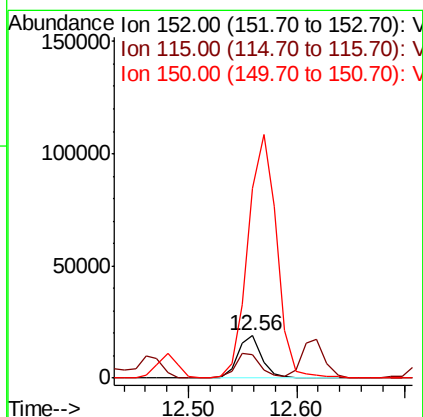
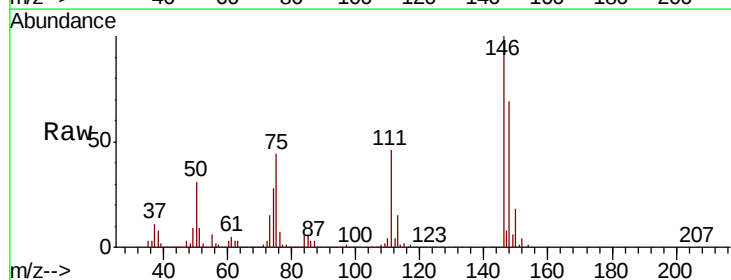
Instrument :
MSVOA_F
ClientSampleId :

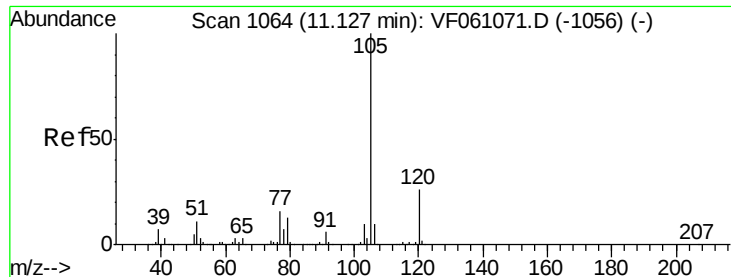
Tot Ion:104 Resp: 861
Ion Ratio Lower Upper
104 100
78 118.7 38.4 57.6#
103 89.7 37.0 55.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion:152 Resp: 29244
Ion Ratio Lower Upper
152 100
115 57.0 33.3 99.9
150 449.1 0.0 328.2#





#73

Isopropylbenzene

Concen: 124.760 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

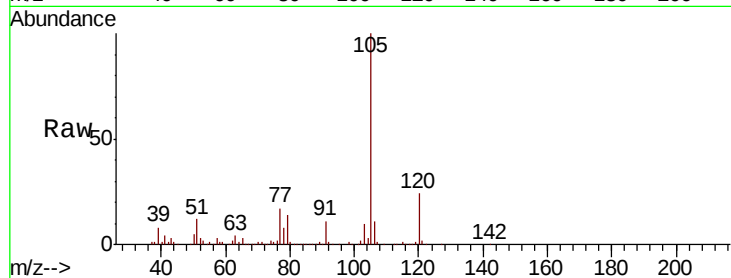
ClientSampleId :

Tot Ion:105 Resp: 314408

Ion Ratio Lower Upper

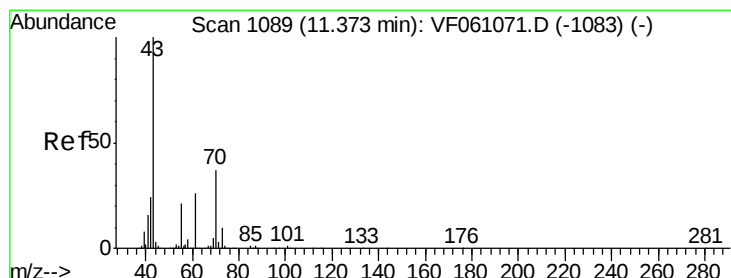
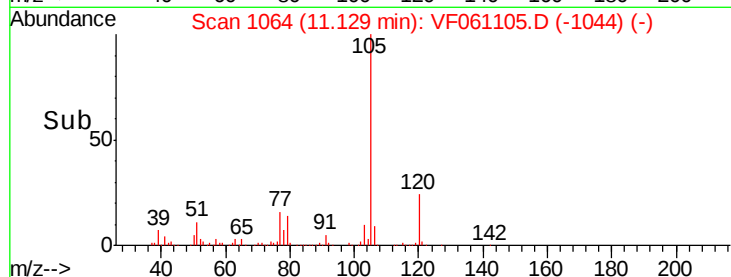
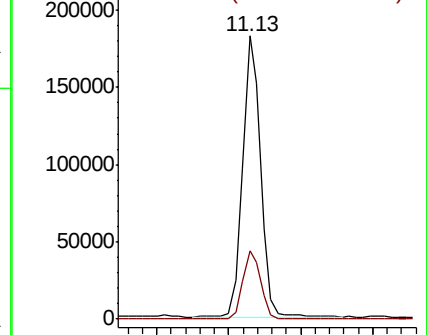
105 100

120 24.0 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 3.208 ug/l

RT: 11.38 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Tgt Ion: 43 Resp: 1795

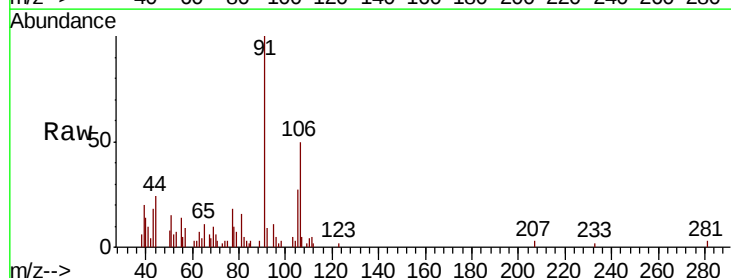
Ion Ratio Lower Upper

43 100

70 32.1 29.2 43.8

55 76.2 16.5 24.7#

61 14.9 20.7 31.1#

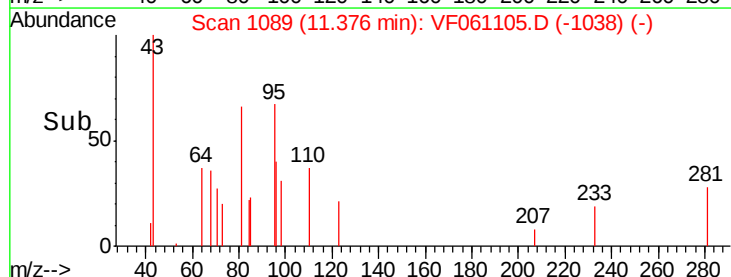
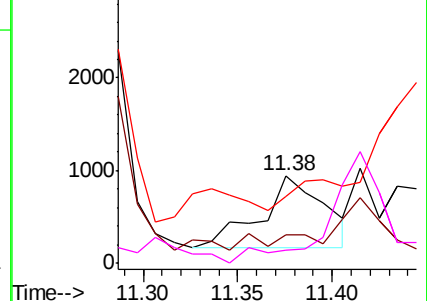


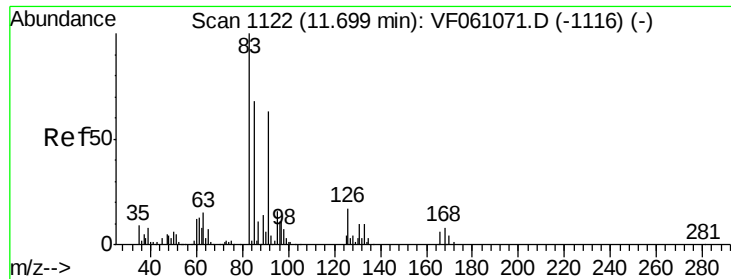
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 4.708 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

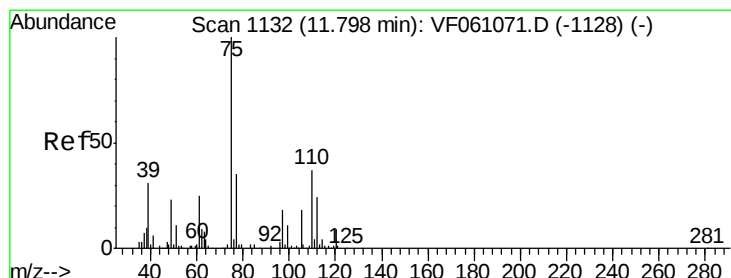
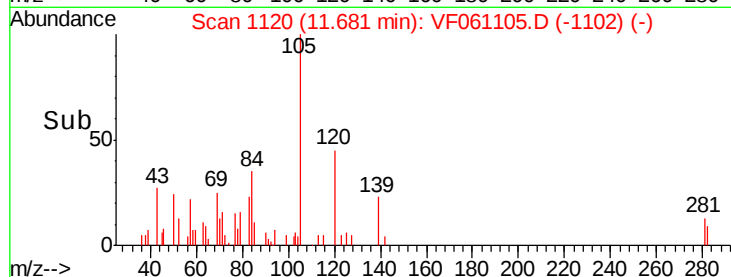
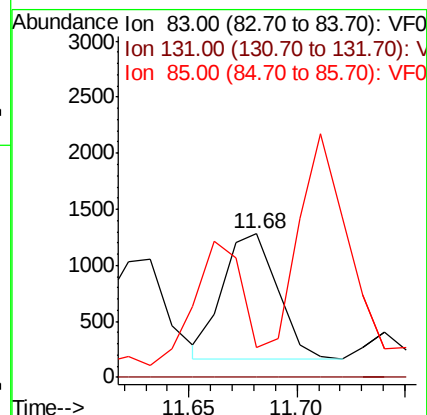
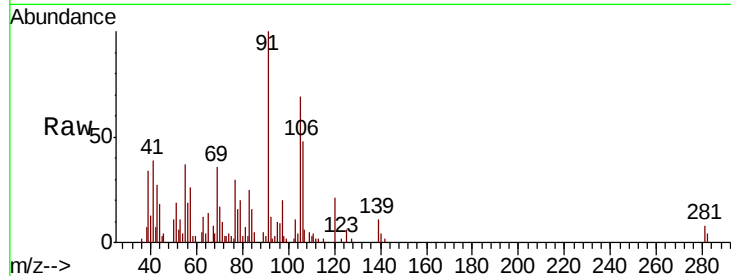
Tot Ion: 83 Resp: 1969

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 20.5 33.9 101.6#



#76

1,2,3-Trichloropropane

Concen: 21.580 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. 0.03 min

Lab File: VF061105.D

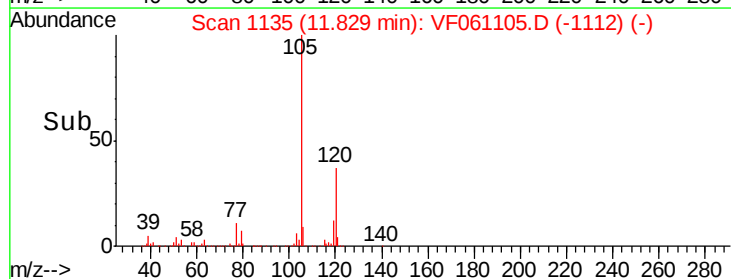
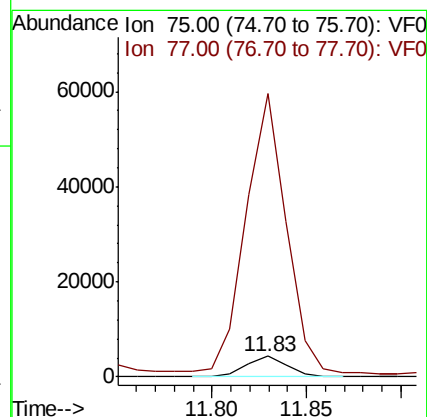
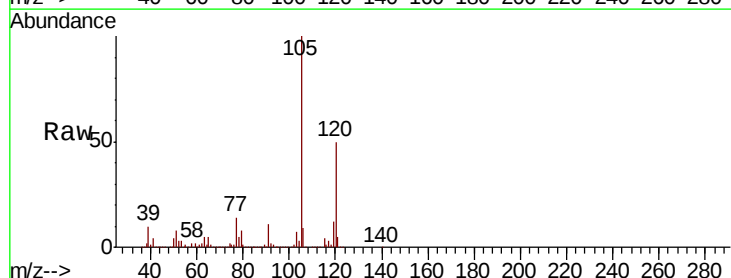
Acq: 20 Dec 2018 13:50

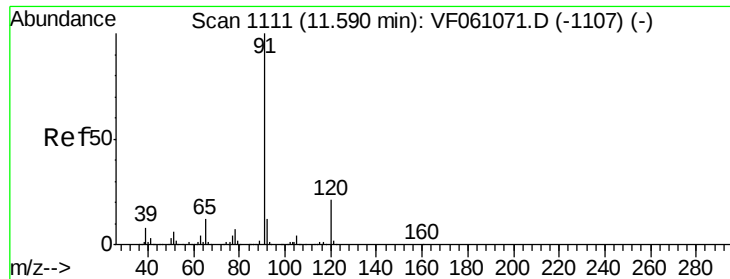
Tgt Ion: 75 Resp: 6717

Ion Ratio Lower Upper

75 100

77 1367.5 17.6 52.9#





#78

n-propylbenzene

Concen: Below Cal

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

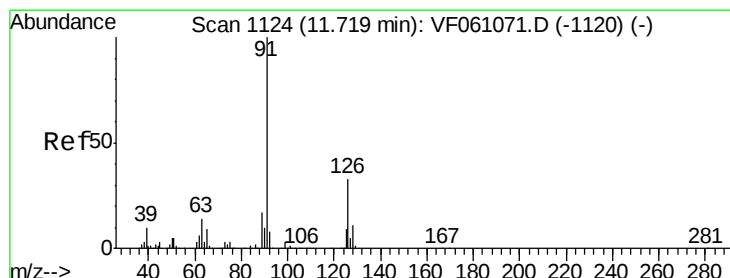
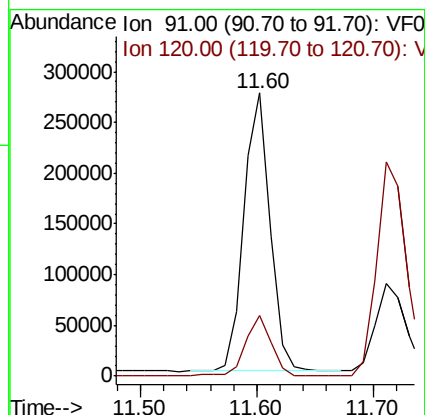
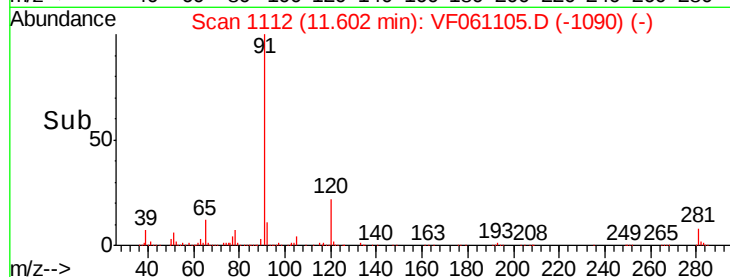
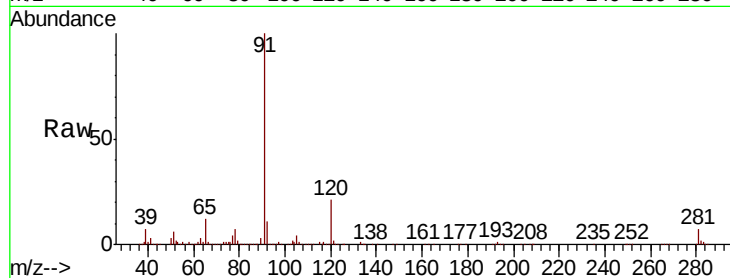
ClientSampleId :

Tot Ion: 91 Resp: 424868

Ion Ratio Lower Upper

91 100

120 21.4 10.4 31.2



#79

2-Chlorotoluene

Concen: 92.315 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VF061105.D

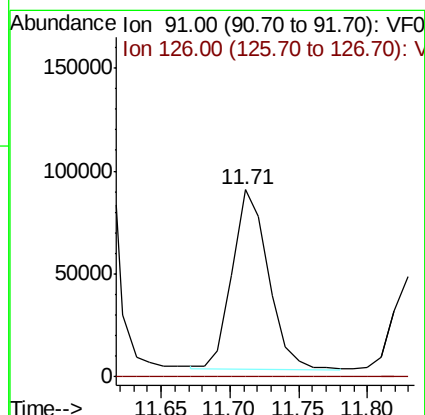
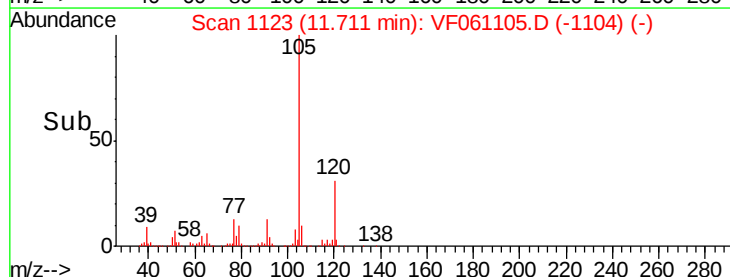
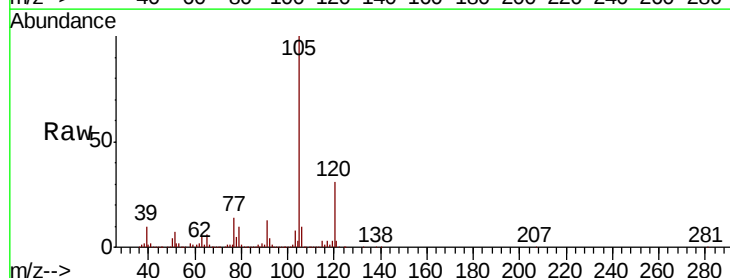
Acq: 20 Dec 2018 13:50

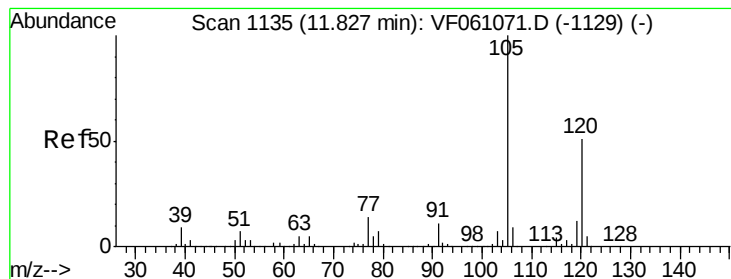
Tgt Ion: 91 Resp: 159594

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.1#





#80

1,3,5-Trimethylbenzene

Concen: 306.478 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

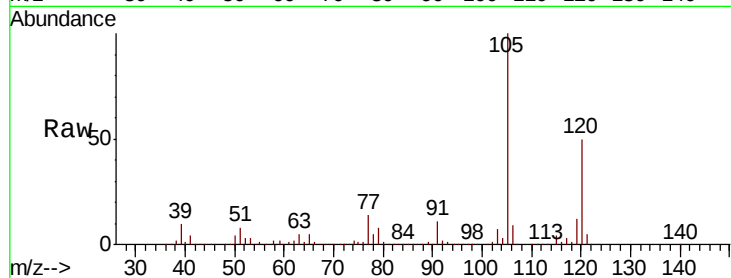
ClientSampled :

Tot Ion:105 Resp: 635978

Ion Ratio Lower Upper

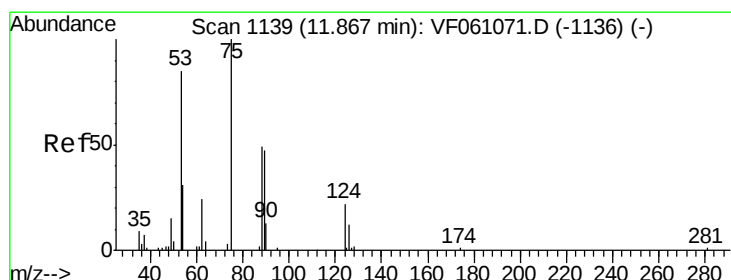
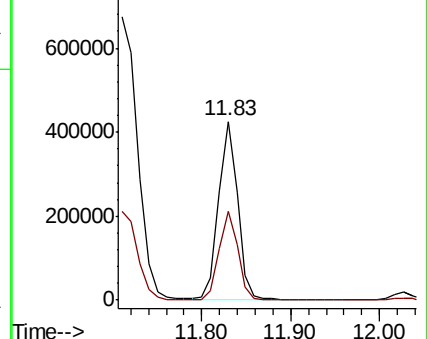
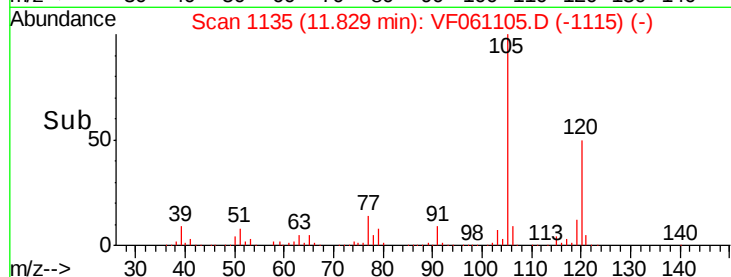
105 100

120 49.6 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 50.219 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.04 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

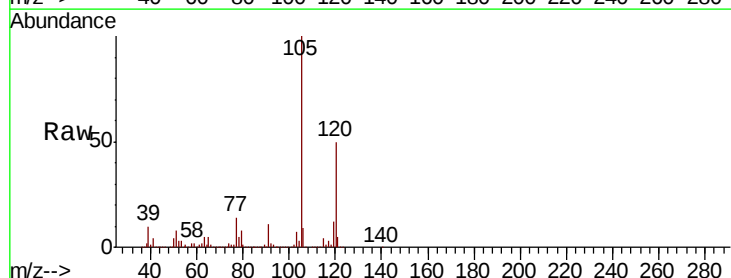
Tgt Ion: 75 Resp: 6717

Ion Ratio Lower Upper

75 100

53 327.0 74.1 111.1#

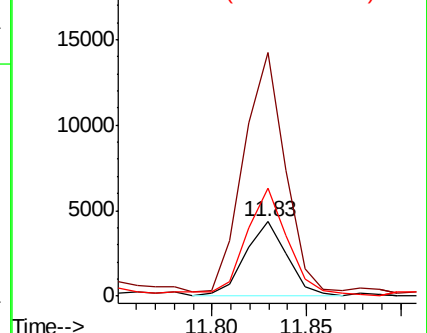
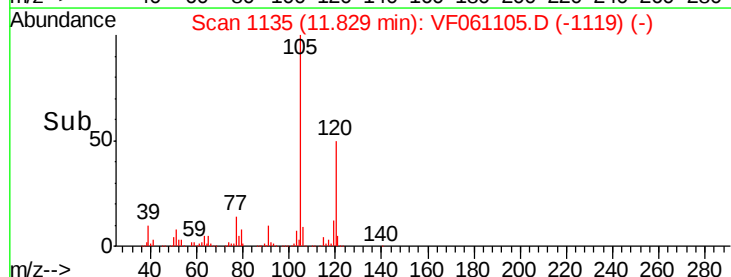
89 145.7 42.6 64.0#

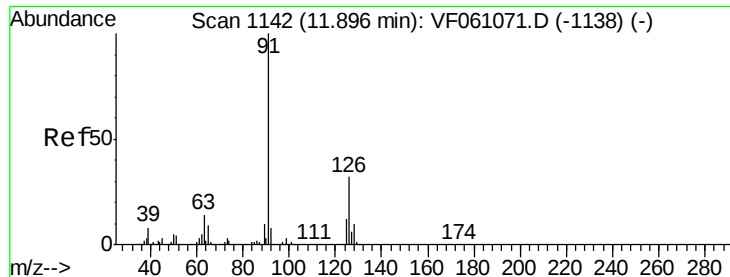


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#82

4-Chlorotoluene

Concen: 2.214 ug/l

RT: 11.91 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

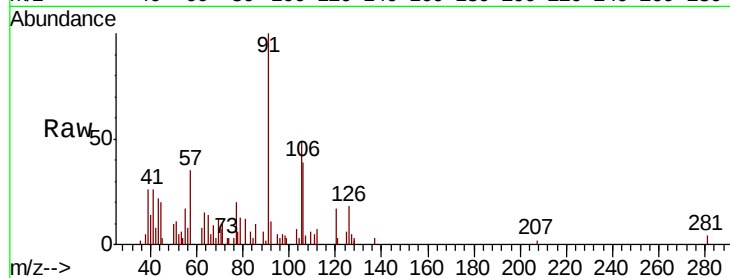
ClientSampled :

Tot Ion: 91 Resp: 3959

Ion Ratio Lower Upper

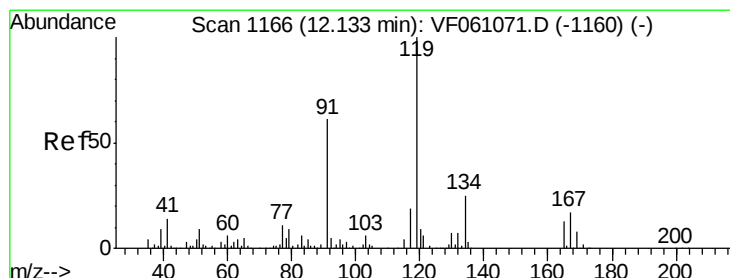
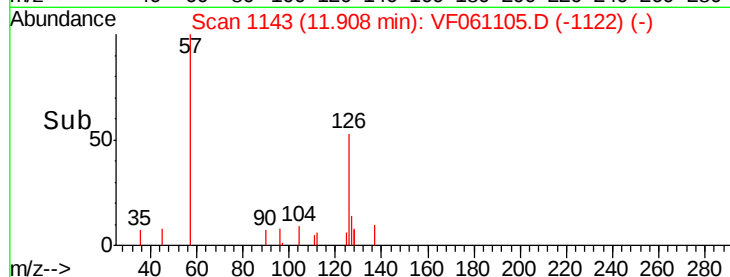
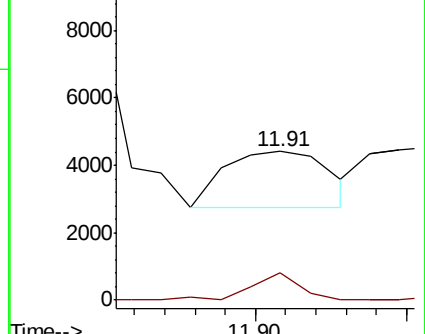
91 100

126 18.4 16.0 47.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#83

tert-Butylbenzene

Concen: 4.033 ug/l

RT: 12.14 min Scan# 1166

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

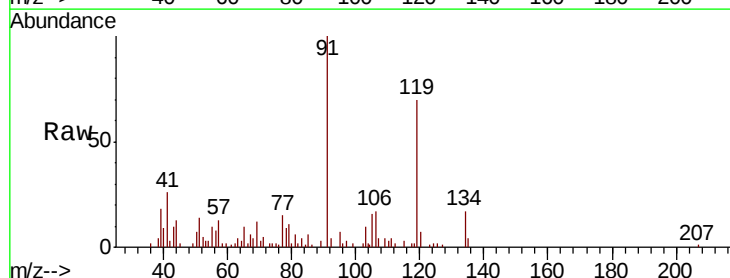
Tgt Ion: 119 Resp: 8612

Ion Ratio Lower Upper

119 100

91 142.0 30.5 91.5#

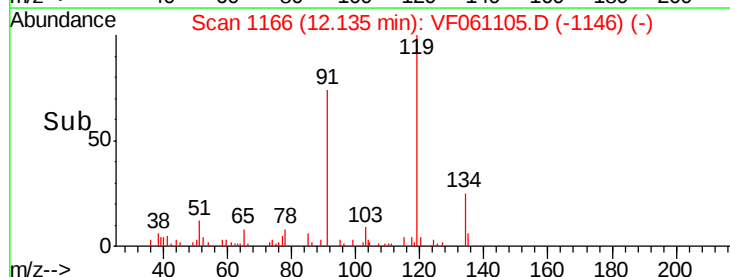
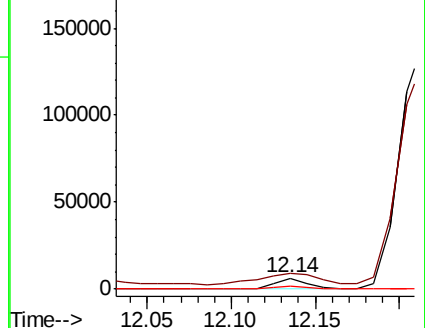
134 24.5 12.4 37.4

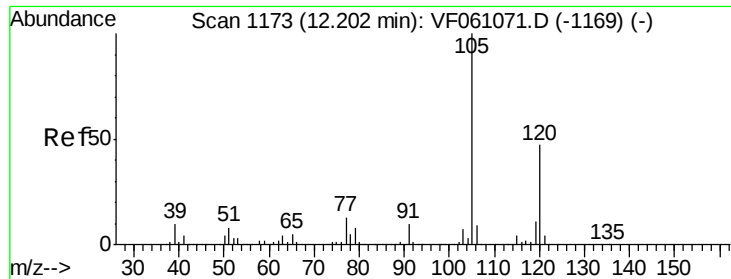


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



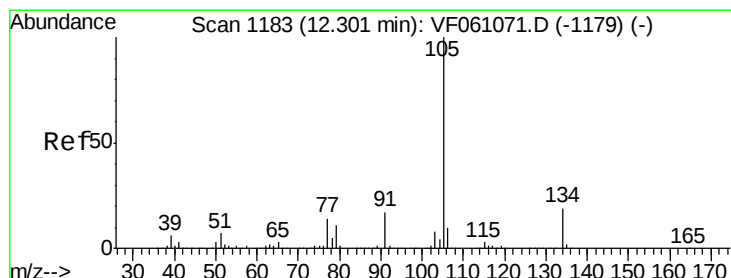
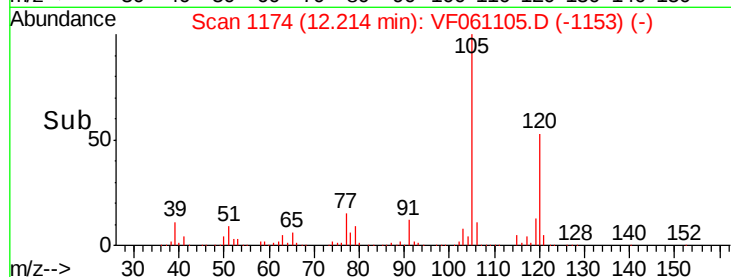
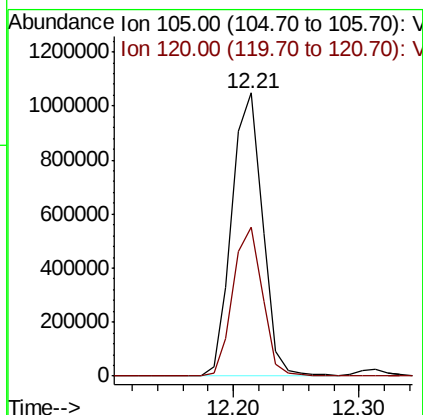
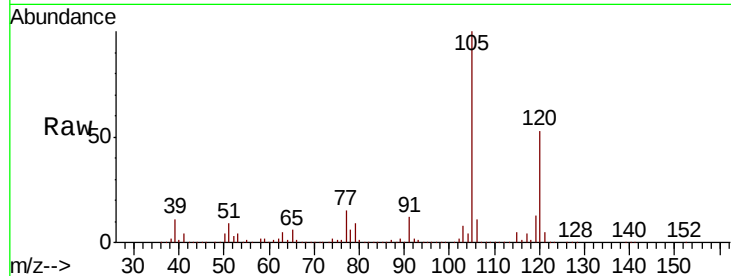


#84

1,2,4-Trimethylbenzene
Concen: 850.547 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. 0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :

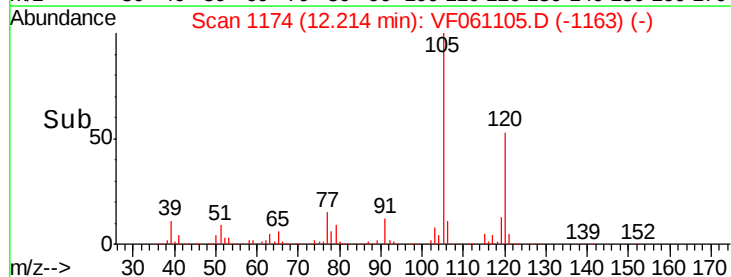
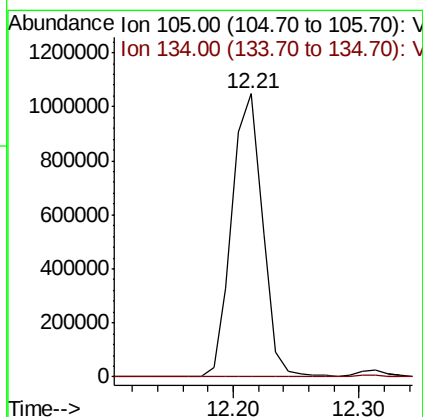
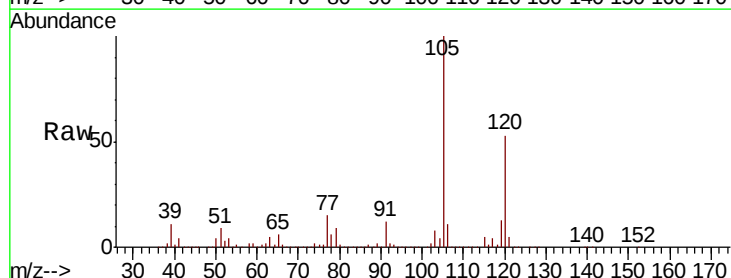
Tot Ion:105 Resp: 1760070
Ion Ratio Lower Upper
105 100
120 52.8 23.6 71.0

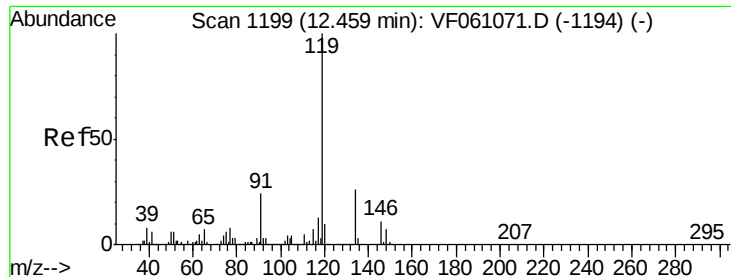


#85

sec-Butylbenzene
Concen: 631.608 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.09 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion:105 Resp: 1760070
Ion Ratio Lower Upper
105 100
134 0.0 9.4 28.2#

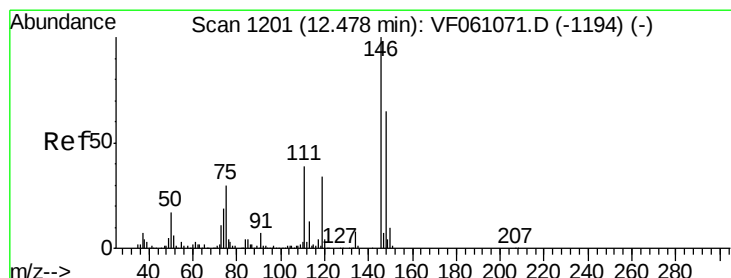
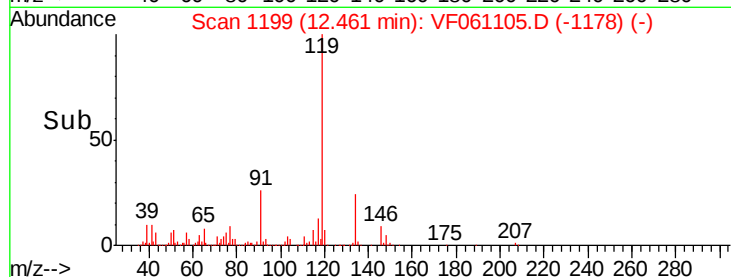
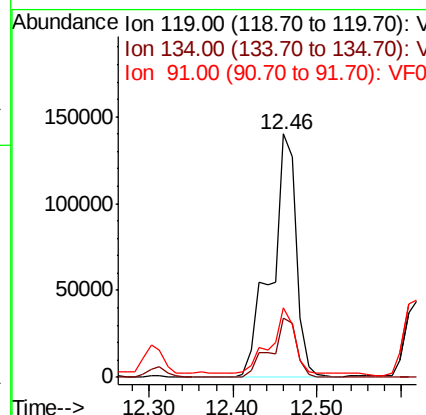
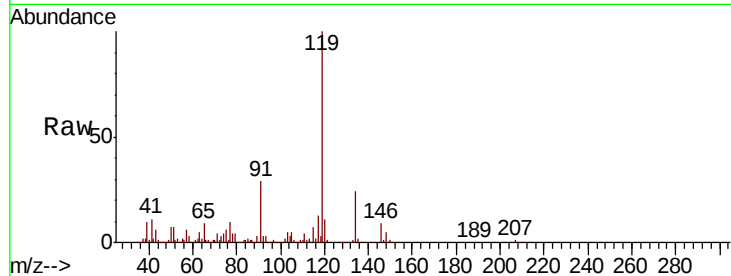




#86
 p-Isopropyltoluene
 Concen: 125.163 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. 0.00 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

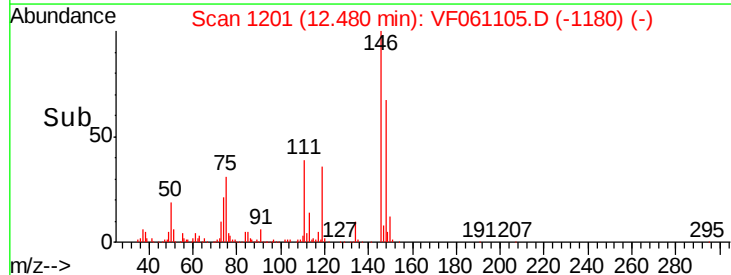
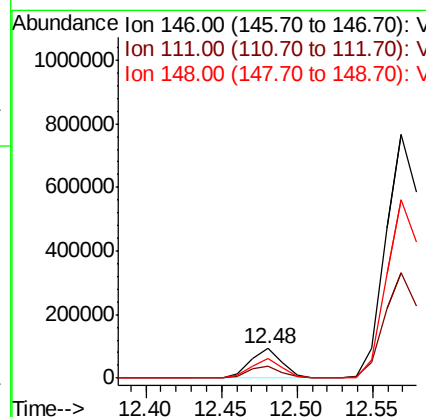
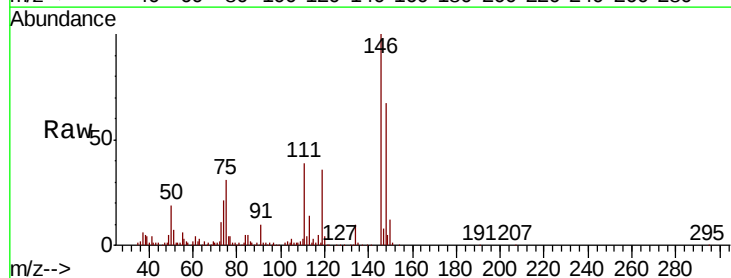
Instrument :
 MSVOA_F
 ClientSampleId :

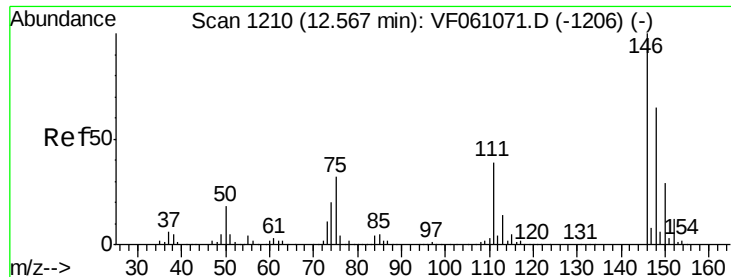
Tot Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.8	38.4
91	28.8	12.2	36.6



#87
 1,3-Dichlorobenzene
 Concen: 167.878 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.3	57.9
148	67.4	32.4	97.2





#88

1,4-Dichlorobenzene

Concen: 1290.160 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

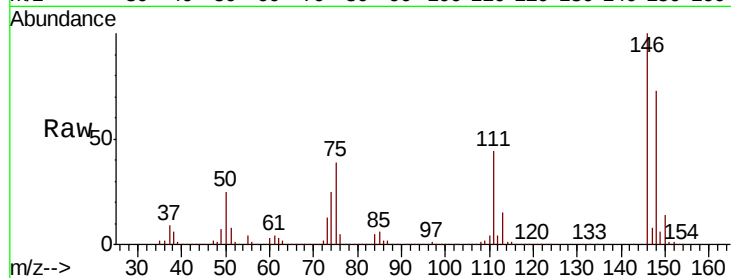
Instrument :

MSVOA_F

ClientSampled :

Tot Ion:146 Resp: 1285196

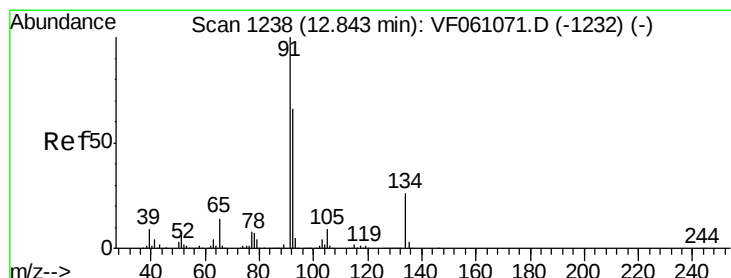
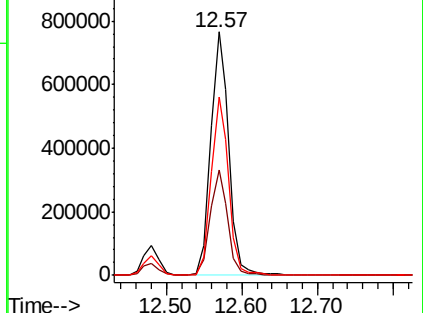
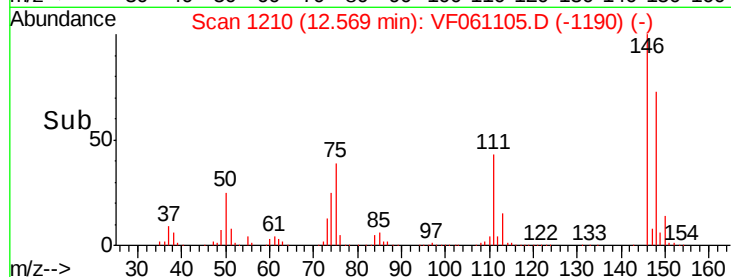
Ion	Ratio	Lower	Upper
146	100		
111	43.5	19.4	58.4
148	73.2	32.4	97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

n-Butylbenzene

Concen: 30.070 ug/l

RT: 12.85 min Scan# 1238

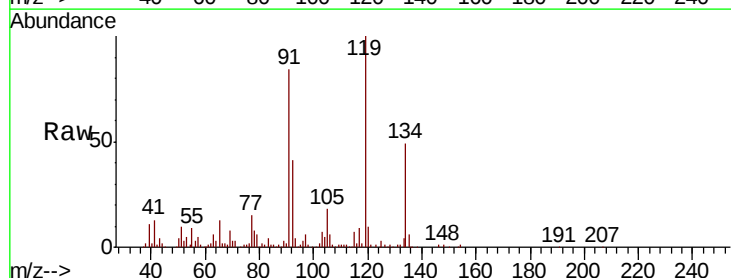
Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Tgt Ion: 91 Resp: 76720

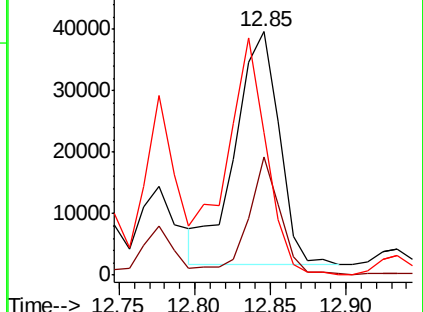
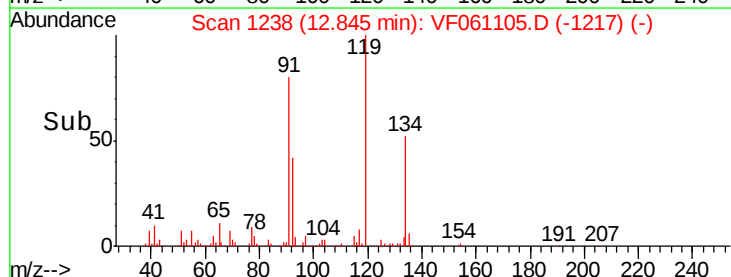
Ion	Ratio	Lower	Upper
91	100		
92	48.5	32.8	98.4
134	58.4	13.2	39.5

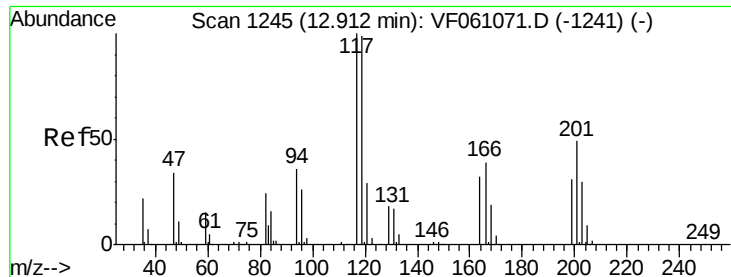


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 22.804 ug/l

RT: 12.84 min Scan# 1237

Delta R.T. -0.08 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

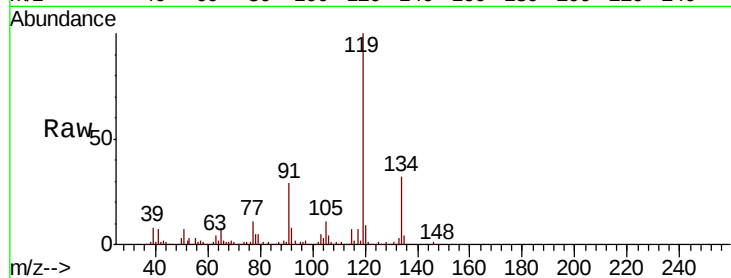
ClientSampled :

Tot Ion:117 Resp: 13032

Ion Ratio Lower Upper

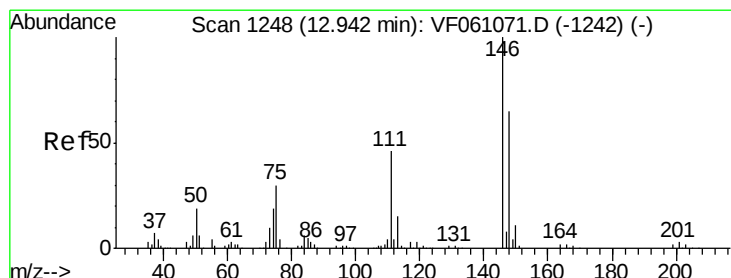
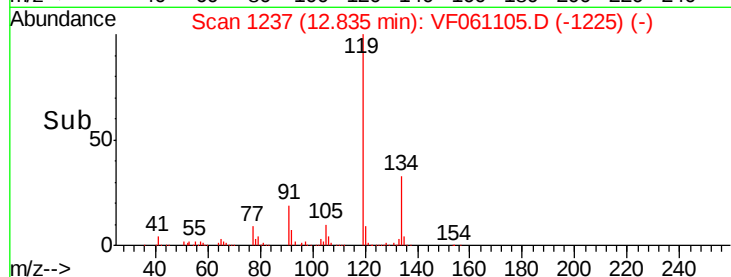
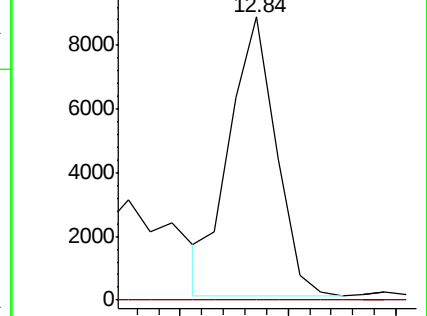
117 100

201 0.0 24.9 74.8#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#91

1,2-Dichlorobenzene

Concen: 10.512 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

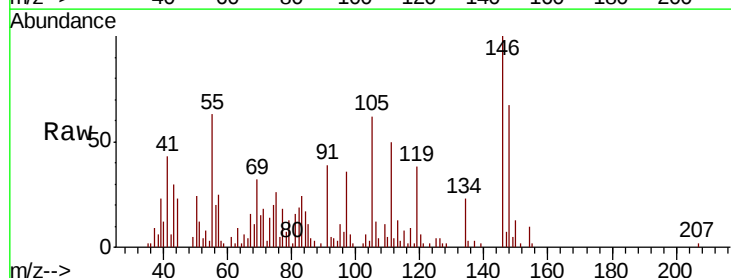
Tgt Ion:146 Resp: 10195

Ion Ratio Lower Upper

146 100

111 49.8 23.2 69.5

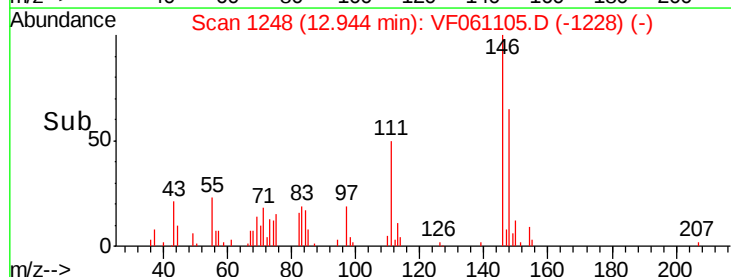
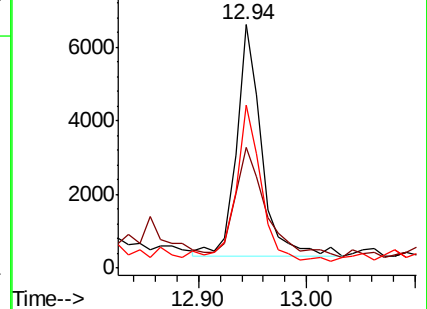
148 66.8 32.4 97.0

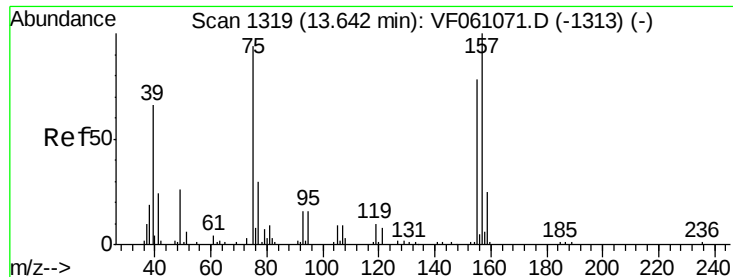


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.954 ug/l

RT: 13.61 min Scan# 1316

Delta R.T. -0.03 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampled :

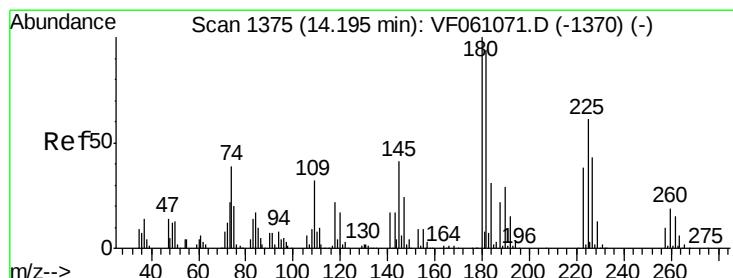
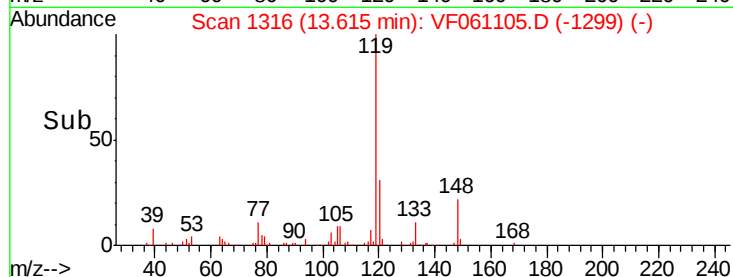
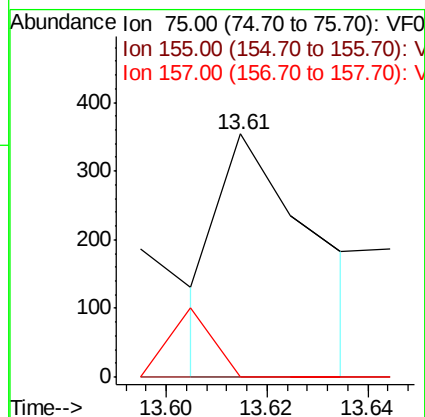
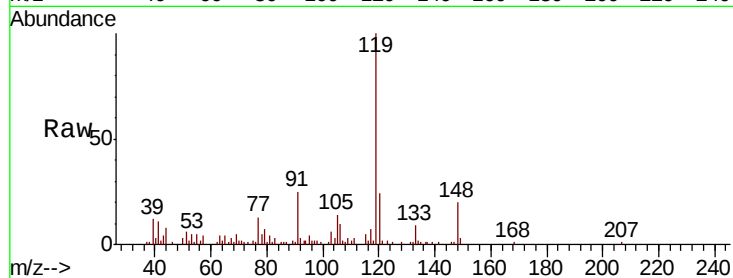
Tot Ion: 75 Resp: 457

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

157 0.0 53.2 159.6#



#93

1,2,4-Trichlorobenzene

Concen: 1.989 ug/l

RT: 14.21 min Scan# 1376

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

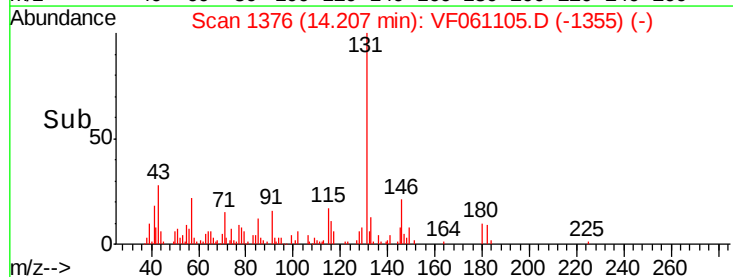
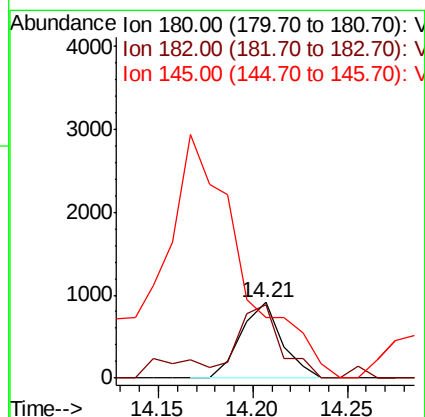
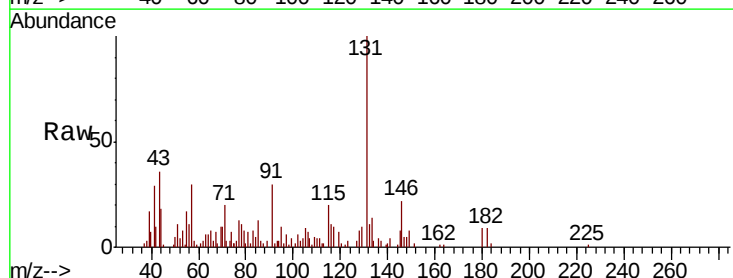
Tgt Ion:180 Resp: 1368

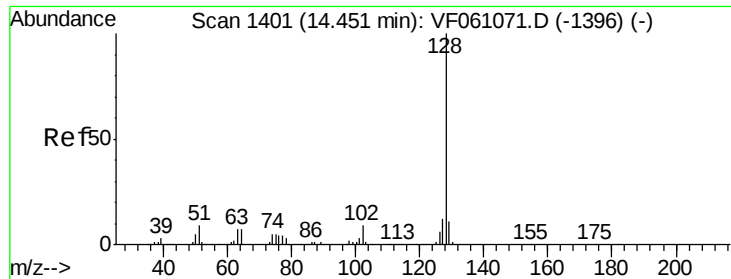
Ion Ratio Lower Upper

180 100

182 97.8 46.9 140.6

145 81.1 20.5 61.6#

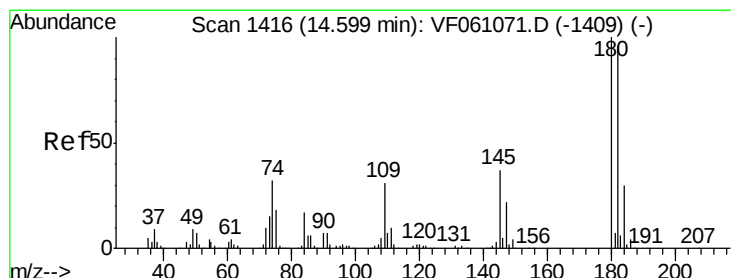
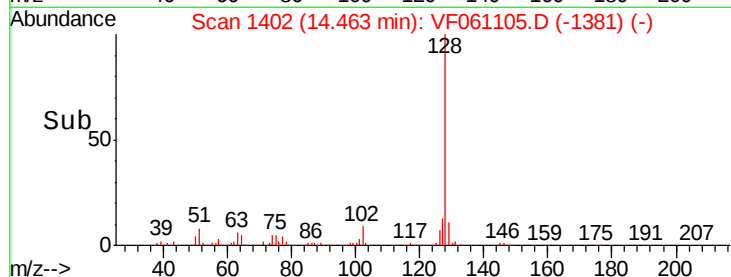
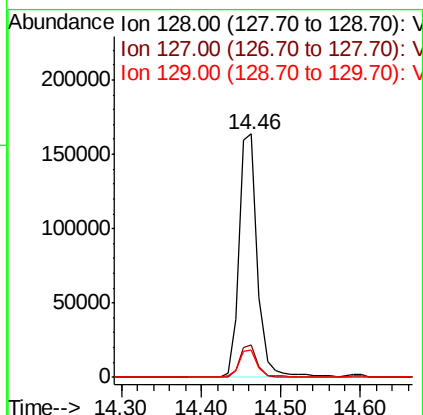
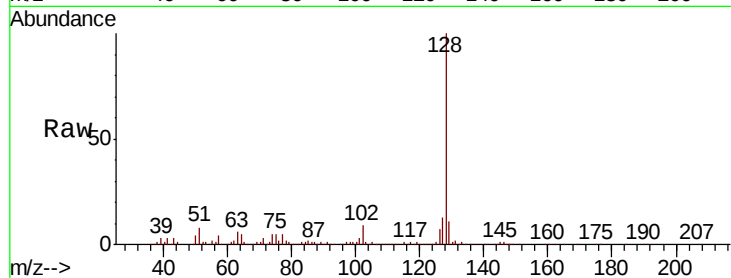




#95
Naphthalene
Concen: 209.380 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:128 Resp: 262971
Ion Ratio Lower Upper
128 100
127 13.1 9.4 14.2
129 11.3 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 2.343 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion:180 Resp: 1490
Ion Ratio Lower Upper
180 100
182 70.3 47.9 143.8
145 232.8 18.6 55.8#

