

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061142.D
 Acq On : 22 Dec 2018 14:04
 Operator : VA/AP
 Sample : VF1222SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 02:55:30 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	4.89	168	204770	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	371705	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.80	117	339990	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.57	152	166429	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.87	65	129759	49.27	ug/l	0.03
Spiked Amount	50.000		Recovery	=	98.54%	
35) Dibromofluoromethane	4.14	113	149788	50.31	ug/l	0.03
Spiked Amount	50.000		Recovery	=	100.62%	
50) Toluene-d8	7.57	98	406489	48.17	ug/l	0.02
Spiked Amount	50.000		Recovery	=	96.34%	
62) 4-Bromofluorobenzene	11.43	95	195951	50.37	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.74%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.97	85	85985	18.890	ug/l 96
3) Chloromethane	1.10	50	55662	21.348	ug/l 98
4) Vinyl Chloride	1.14	62	51116	21.133	ug/l 97
5) Bromomethane	1.34	94	35092	20.917	ug/l 93
6) Chloroethane	1.39	64	22389	20.088	ug/l 98
7) Trichlorofluoromethane	1.50	101	88914	19.252	ug/l 100
8) Diethyl Ether	1.65	74	11799	18.657	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	1.84	101	47450	19.816	ug/l 98
10) Methyl Iodide	1.91	142	61945	16.411	ug/l 92
11) Tert butyl alcohol	2.59	59	10145	95.455	ug/l 98
12) 1,1-Dichloroethene	1.80	96	36957	20.474	ug/l # 94
13) Acrolein	2.01	56	7459	97.125	ug/l 98
14) Allyl chloride	2.11	41	46909	24.972	ug/l 87
15) Acrylonitrile	2.96	53	27820	113.199	ug/l 88
16) Acetone	2.25	43	50371	95.671	ug/l 98
17) Carbon Disulfide	1.84	76	113660	20.836	ug/l 95
18) Methyl Acetate	2.45	43	21887	20.093	ug/l 98
19) Methyl tert-butyl Ether	2.45	73	79669	19.885	ug/l 96
20) Methylene Chloride	2.26	84	29177	14.118	ug/l # 89
21) trans-1,2-Dichloroethene	2.32	96	32560	16.865	ug/l 91
22) Diisopropyl ether	2.82	45	129357	20.674	ug/l 96
23) Vinyl Acetate	3.21	43	327668	113.515	ug/l 97
24) 1,1-Dichloroethane	2.89	63	78340	21.131	ug/l 99
25) 2-Butanone	4.37	43	92603	108.448	ug/l 98
26) 2,2-Dichloropropane	3.62	77	43768	20.572	ug/l 94
27) cis-1,2-Dichloroethene	3.50	96	58134	19.669	ug/l 89
28) Bromochloromethane	3.74	49	41324	21.968	ug/l # 79
29) Tetrahydrofuran	4.10	42	39144	112.631	ug/l 95
30) Chloroform	3.89	83	111250	20.013	ug/l 95
31) Cyclohexane	3.71	56	83441	21.690	ug/l 93
32) 1,1,1-Trichloroethane	4.11	97	68870	20.670	ug/l 94
36) 1,1-Dichloropropene	4.31	75	80212	17.878	ug/l 98
37) Ethyl Acetate	4.14	43	40827	21.186	ug/l 91
38) Carbon Tetrachloride	4.01	117	67143	19.651	ug/l 95

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 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)
39) Methylcyclohexane	5.48	83	88028	21.869	ug/l	95
40) Benzene	4.66	78	195036	20.214	ug/l	93
41) Methacrylonitrile	4.78	41	20763	21.912	ug/l #	90
42) 1,2-Dichloroethane	4.97	62	64382	17.565	ug/l	96
43) Isopropyl Acetate	6.98	43	46231	21.340	ug/l	94
44) Trichloroethene	5.52	130	61893	20.346	ug/l	91
45) 1,2-Dichloropropane	6.26	63	51382	19.573	ug/l	98
46) Dibromomethane	6.12	93	32573	19.131	ug/l	97
47) Bromodichloromethane	6.41	83	84116	19.014	ug/l	97
48) Methyl methacrylate	6.75	41	28820	19.056	ug/l	98
49) 1,4-Dioxane	6.73	88	3722	339.169	ug/l #	64
51) 4-Methyl-2-Pentanone	8.29	43	154200	103.784	ug/l	100
52) Toluene	7.64	92	125136	19.592	ug/l	97
53) t-1,3-Dichloropropene	8.30	75	70191	19.668	ug/l	99
54) cis-1,3-Dichloropropene	7.33	75	90207	20.140	ug/l	97
55) 1,1,2-Trichloroethane	8.51	97	37819	19.752	ug/l	93
56) Ethyl methacrylate	8.64	69	41903	20.225	ug/l	98
57) 1,3-Dichloropropane	8.88	76	66666	19.251	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.32	63	42885	107.773	ug/l	99
59) 2-Hexanone	9.52	43	117509	109.363	ug/l	98
60) Dibromochloromethane	8.74	129	52574	19.155	ug/l	98
61) 1,2-Dibromoethane	9.02	107	39930	19.527	ug/l	98
64) Tetrachloroethene	8.18	164	49722	19.011	ug/l	97
65) Chlorobenzene	9.82	112	141364	20.127	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.95	131	56325	19.623	ug/l	96
67) Ethyl Benzene	9.92	91	263282	20.575	ug/l	100
68) m/p-Xylenes	10.16	106	190409	42.283	ug/l	97
69) o-Xylene	10.73	106	101422	20.307	ug/l	98
70) Styrene	10.81	104	135438	19.251	ug/l	99
71) Bromoform	10.79	173	26227	19.750	ug/l	100
73) Isopropylbenzene	11.15	105	306967	21.403	ug/l	97
74) N-amyl acetate	11.39	43	71902	22.581	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.71	83	52890	22.220	ug/l	93
76) 1,2,3-Trichloropropane	11.82	75	36883	20.821	ug/l	92
77) Bromobenzene	11.51	156	59953	19.419	ug/l	94
78) n-propylbenzene	11.61	91	364865	19.556	ug/l	100
79) 2-Chlorotoluene	11.74	91	207490	21.089	ug/l	97
80) 1,3,5-Trimethylbenzene	11.84	105	250692	21.228	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.89	75	22964	30.168	ug/l	85
82) 4-Chlorotoluene	11.92	91	212133	20.843	ug/l	99
83) tert-Butylbenzene	12.14	119	263754	21.704	ug/l	98
84) 1,2,4-Trimethylbenzene	12.22	105	235397	19.988	ug/l	100
85) sec-Butylbenzene	12.32	105	334173	21.072	ug/l	96
86) p-Isopropyltoluene	12.48	119	273494	20.776	ug/l	99
87) 1,3-Dichlorobenzene	12.49	146	117011	19.996	ug/l	94
88) 1,4-Dichlorobenzene	12.59	146	113495	20.020	ug/l	97
89) n-Butylbenzene	12.86	91	287486	18.991	ug/l	96
90) Hexachloroethane	12.93	117	67816	20.852	ug/l	98
91) 1,2-Dichlorobenzene	12.96	146	111398	20.183	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.66	75	8108	18.562	ug/l	89

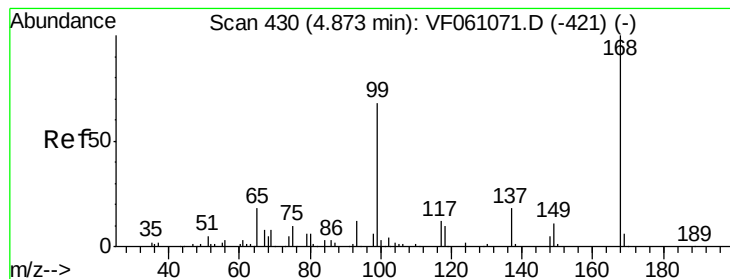
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	82738	21.137	ug/l	97
94) Hexachlorobutadiene	14.20	225	49227	19.746	ug/l	94
95) Naphthalene	14.47	128	142481	19.934	ug/l	98
96) 1,2,3-Trichlorobenzene	14.62	180	71847	19.855	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

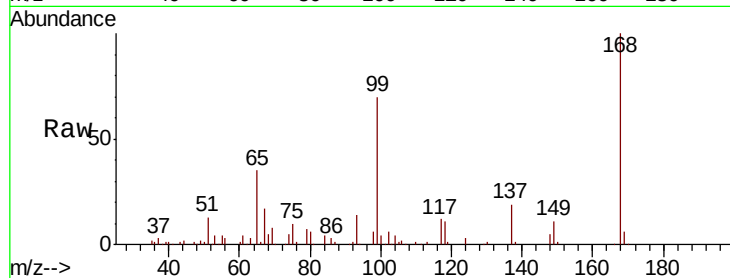
ClientSampleId :

Tot Ion:168 Resp: 204770

Ion Ratio Lower Upper

168 100

99 70.0 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

60000

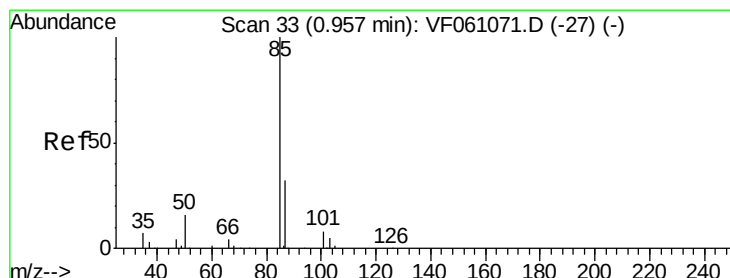
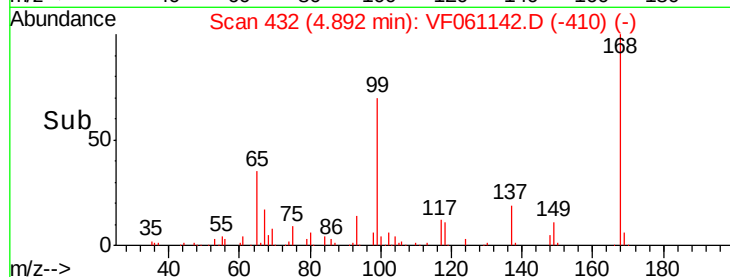
40000

20000

0

Time-->

4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 18.890 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061142.D

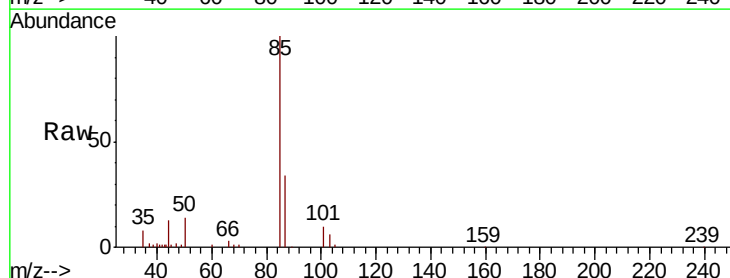
Acq: 22 Dec 2018 14:04

Tgt Ion: 85 Resp: 85985

Ion Ratio Lower Upper

85 100

87 33.8 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

30000

25000

20000

15000

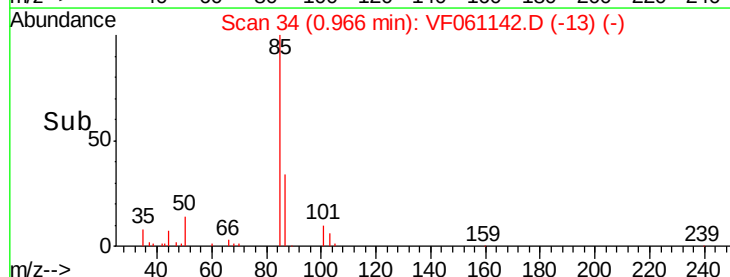
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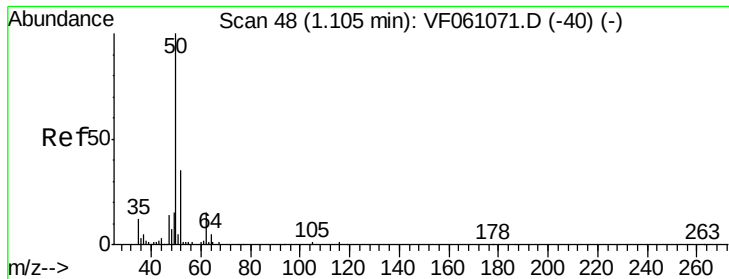
5000

0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 21.348 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

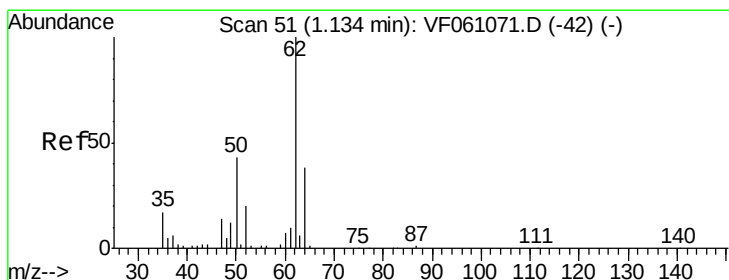
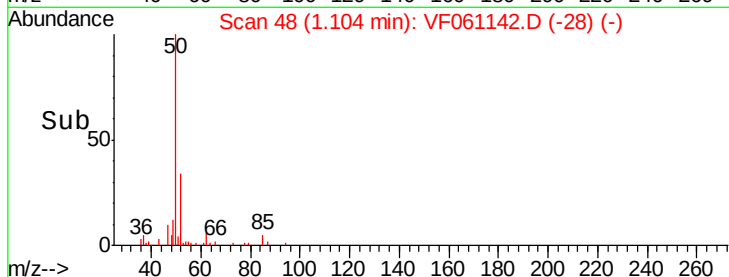
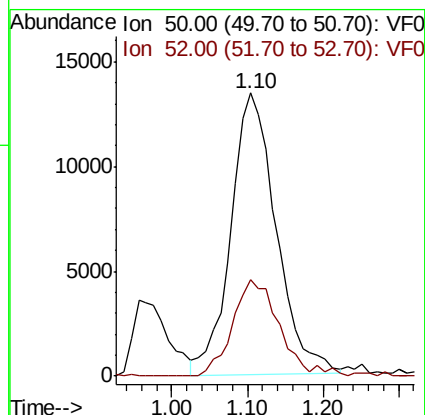
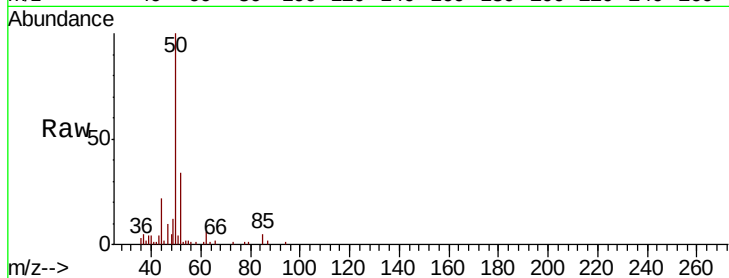
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 55662

Ion Ratio Lower Upper

50 100

52 34.1 26.3 39.5



#4

Vinyl Chloride

Concen: 21.133 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061142.D

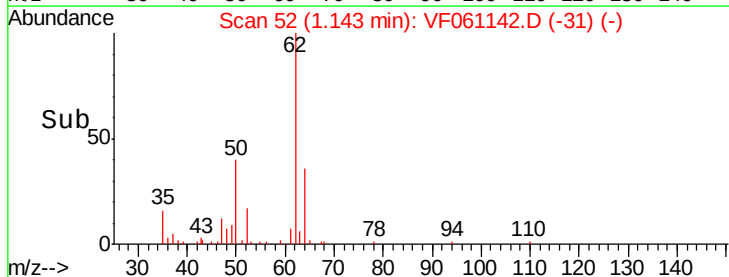
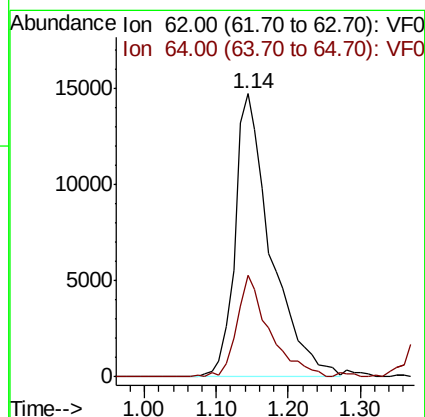
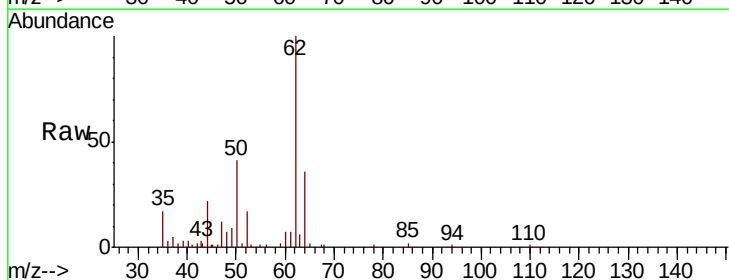
Acq: 22 Dec 2018 14:04

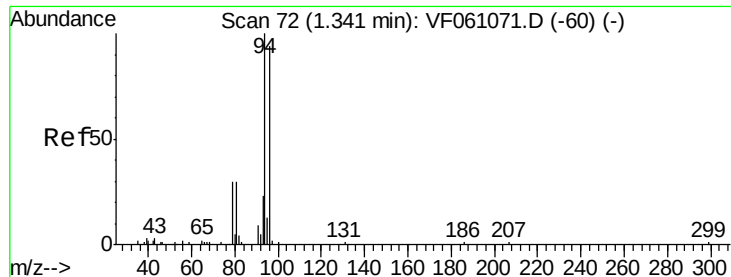
Tgt Ion: 62 Resp: 51116

Ion Ratio Lower Upper

62 100

64 36.0 30.4 45.6





#5

Bromomethane

Concen: 20.917 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.00 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

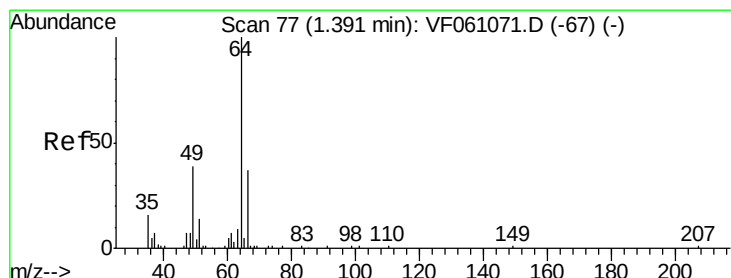
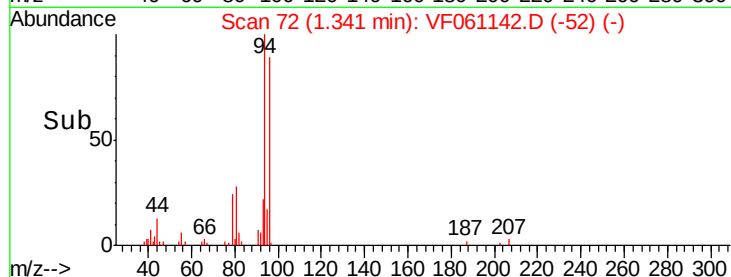
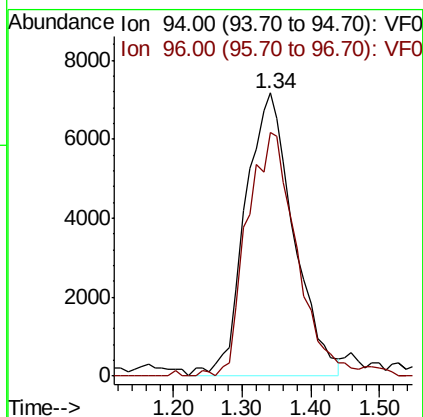
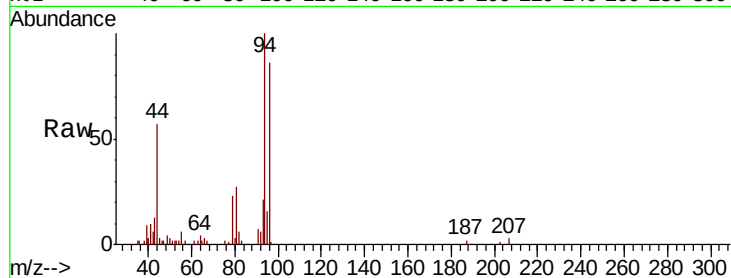
ClientSampleId :

Tot Ion: 94 Resp: 35092

Ion Ratio Lower Upper

94 100

96 86.3 74.4 111.6



#6

Chloroethane

Concen: 20.088 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061142.D

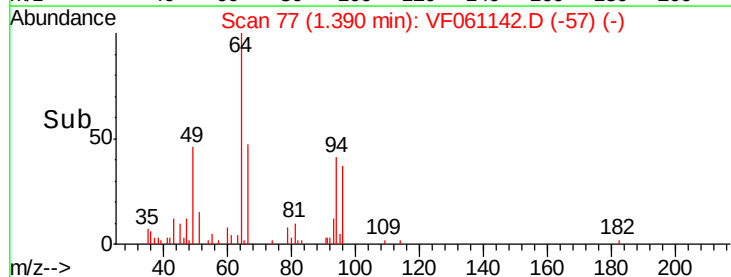
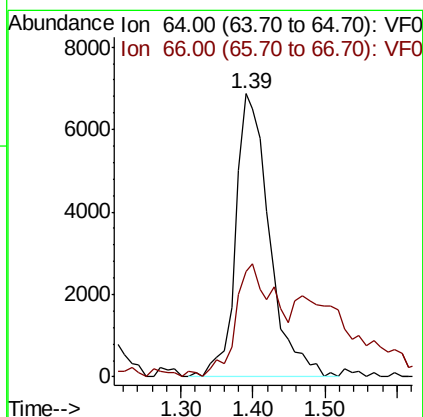
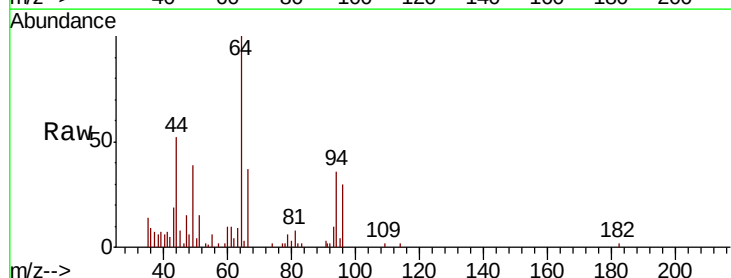
Acq: 22 Dec 2018 14:04

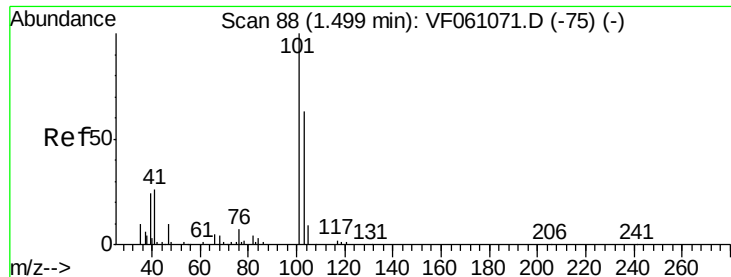
Tgt Ion: 64 Resp: 22389

Ion Ratio Lower Upper

64 100

66 37.4 30.9 46.3





#7

Trichlorofluoromethane

Concen: 19.252 ug/l

RT: 1.50 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

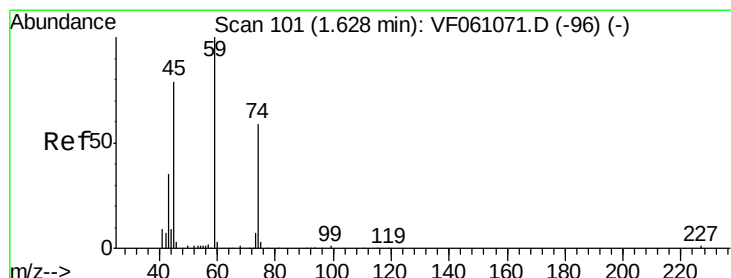
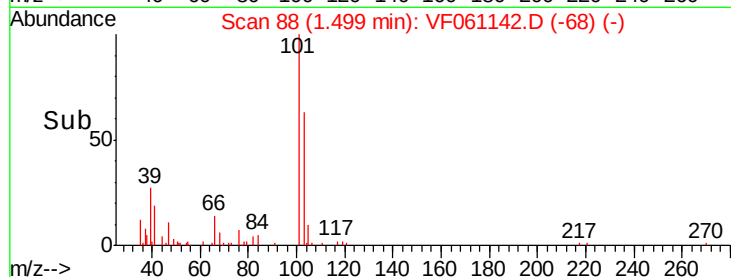
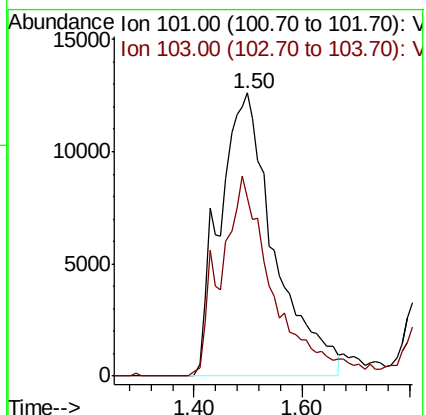
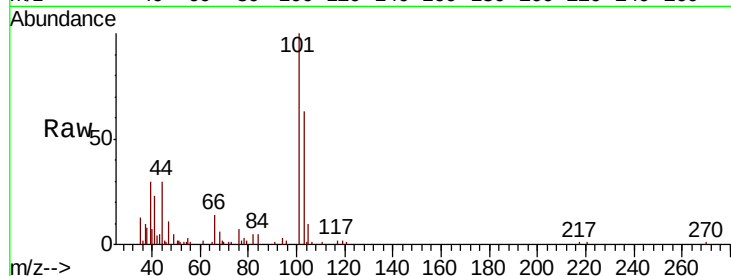
ClientSampleId :

Tot Ion:101 Resp: 88914

Ion Ratio Lower Upper

101 100

103 63.2 50.7 76.1



#8

Diethyl Ether

Concen: 18.657 ug/l

RT: 1.65 min Scan# 103

Delta R.T. 0.02 min

Lab File: VF061142.D

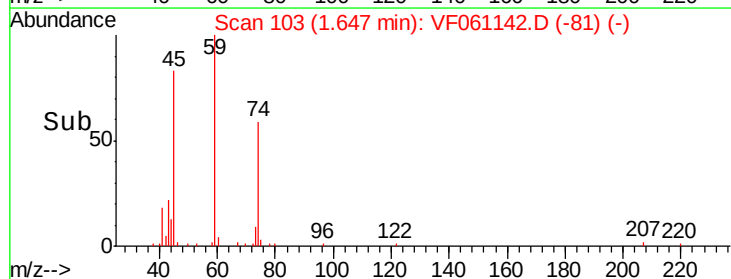
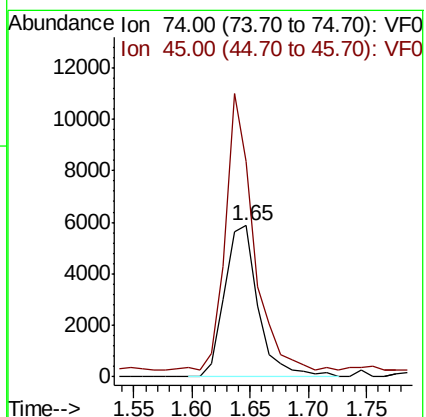
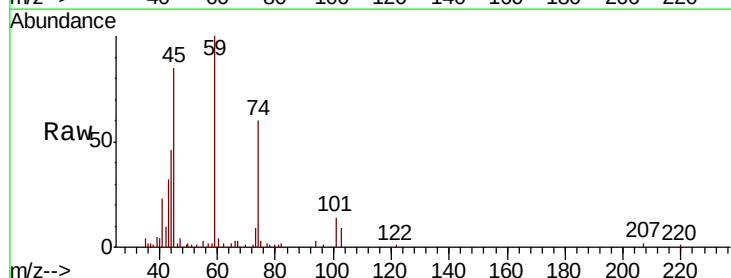
Acq: 22 Dec 2018 14:04

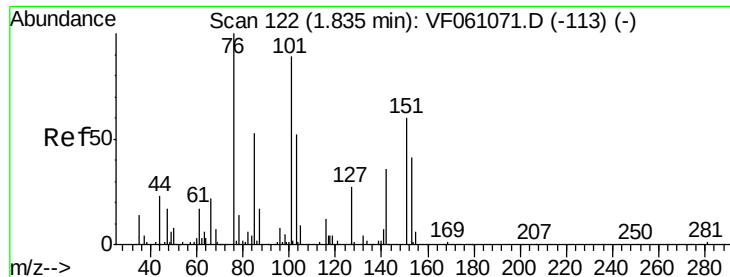
Tgt Ion: 74 Resp: 11799

Ion Ratio Lower Upper

74 100

45 142.5 67.8 203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.816 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

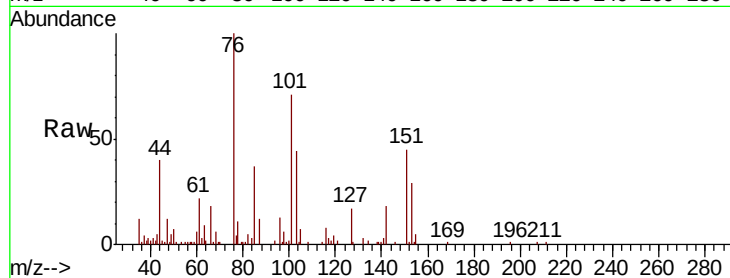
Tot Ion:101 Resp: 47450

Ion Ratio Lower Upper

101 100

85 52.1 44.5 66.7

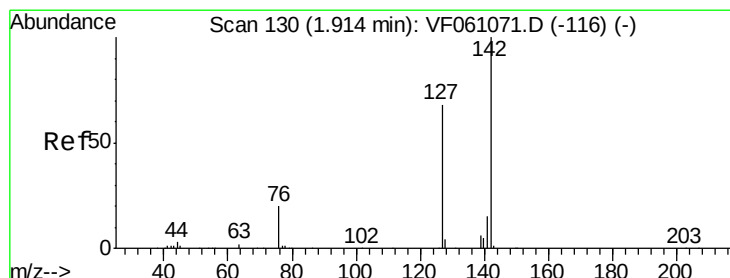
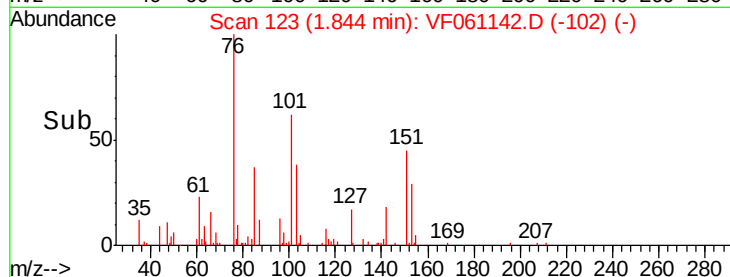
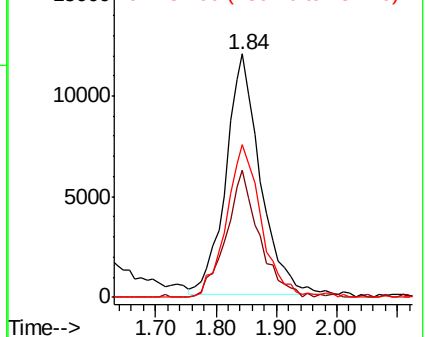
151 62.6 49.9 74.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 16.411 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.00 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

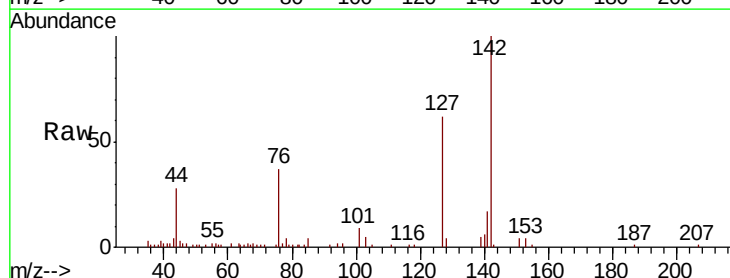
Tgt Ion:142 Resp: 61945

Ion Ratio Lower Upper

142 100

127 61.7 54.7 82.1

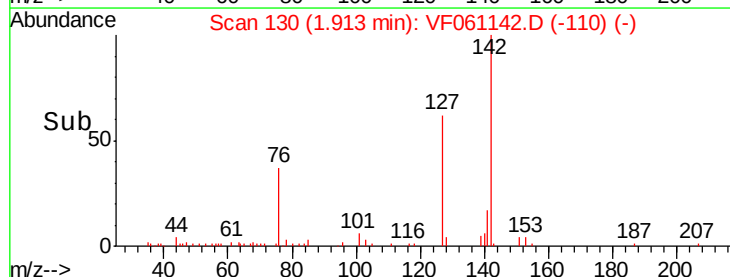
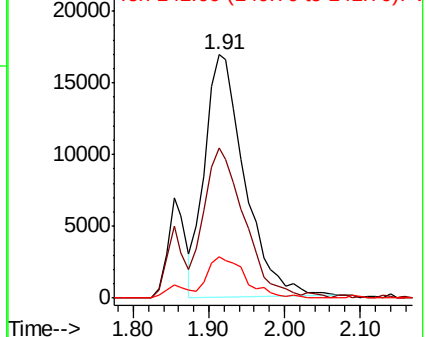
141 17.2 12.2 18.2

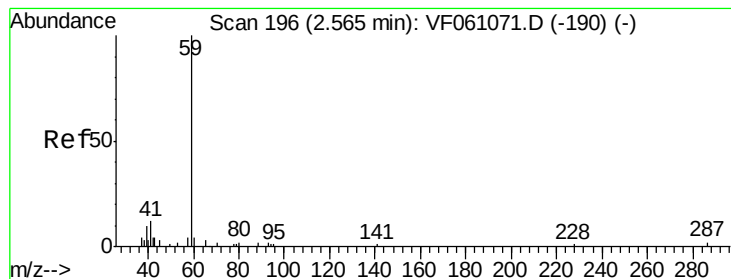


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



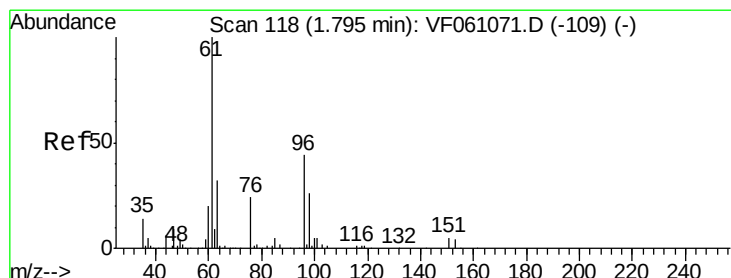
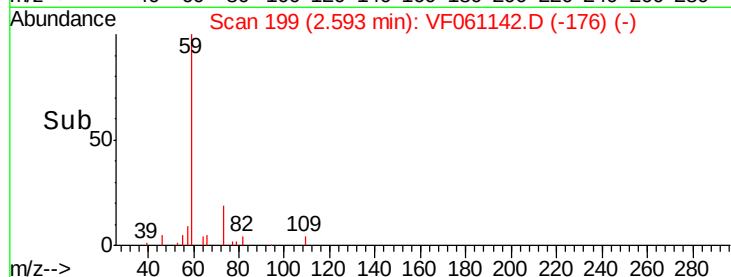
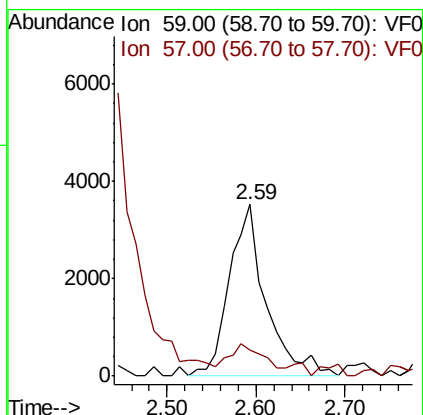
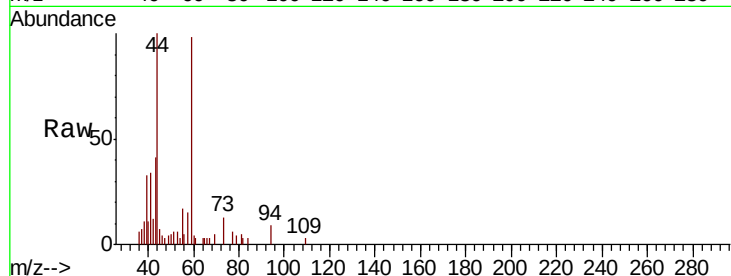


#11

Tert butyl alcohol
Concen: 95.455 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :

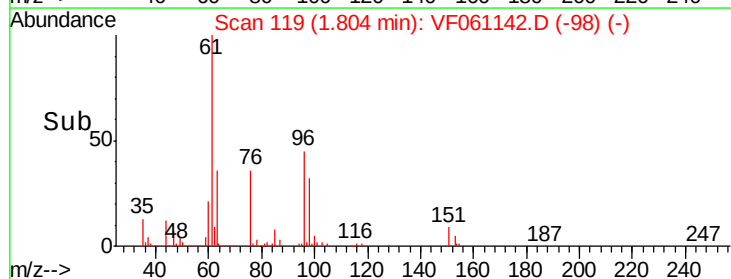
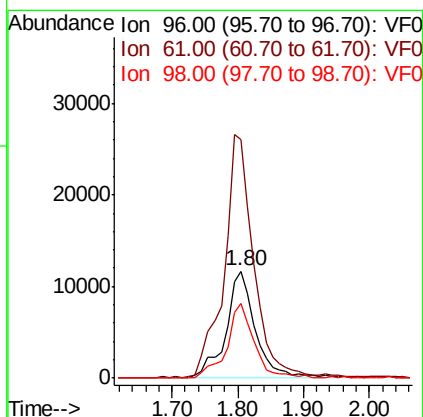
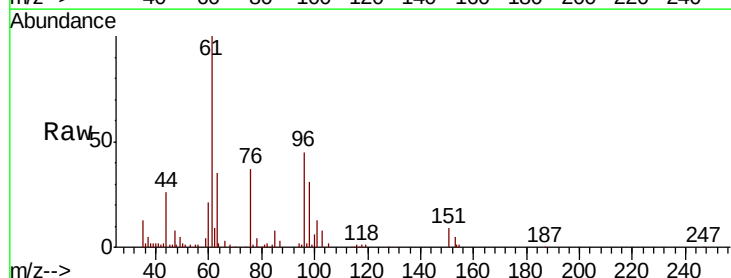
Tot Ion: 59 Resp: 10145
Ion Ratio Lower Upper
59 100
57 15.1 11.5 17.3

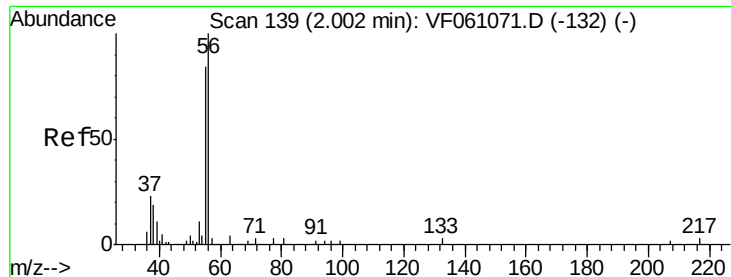


#12

1,1-Dichloroethene
Concen: 20.474 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.01 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 96 Resp: 36957
Ion Ratio Lower Upper
96 100
61 222.3 182.0 273.0
98 69.9 46.5 69.7#





#13

Acrolein

Concen: 97.125 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

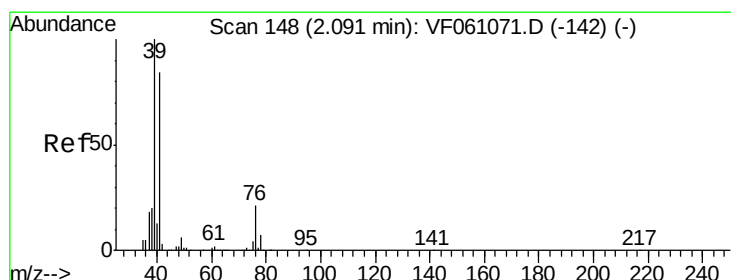
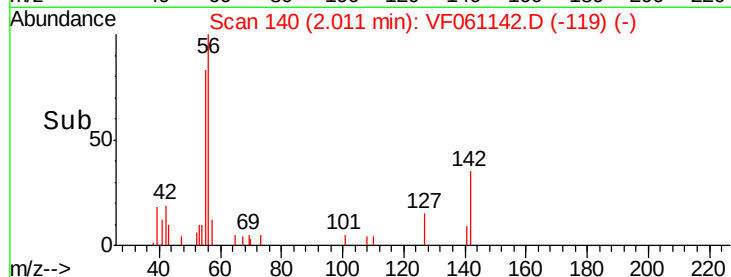
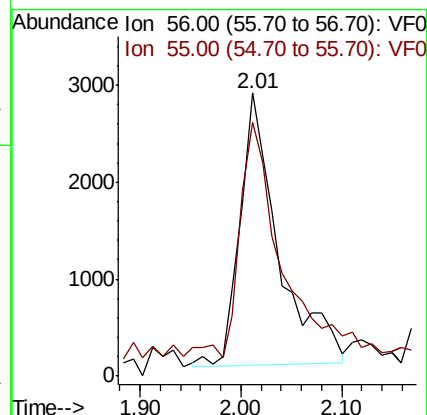
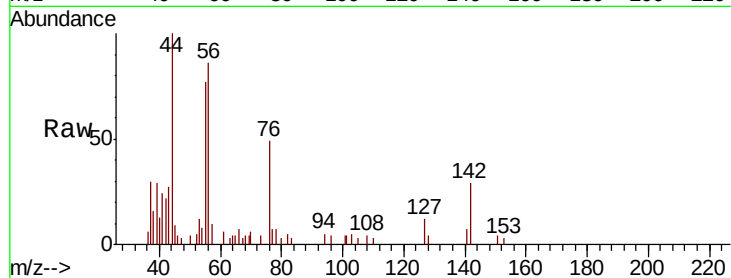
ClientSampleId :

Tot Ion: 56 Resp: 7459

Ion Ratio Lower Upper

56 100

55 89.6 70.2 105.2



#14

Allyl chloride

Concen: 24.972 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

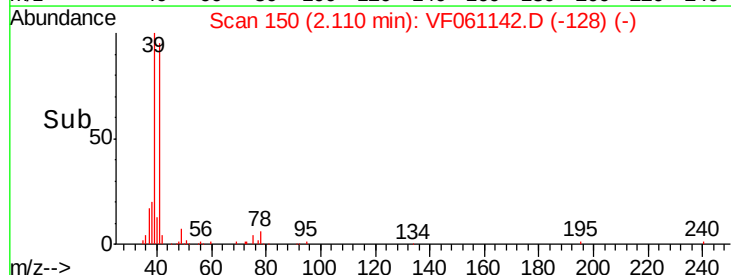
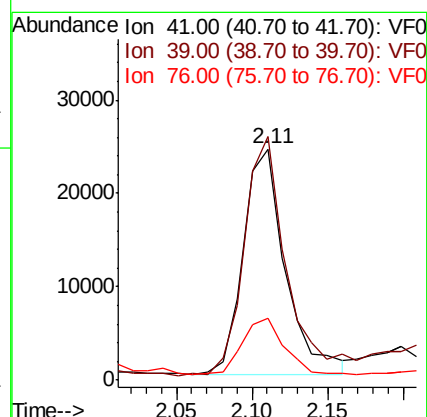
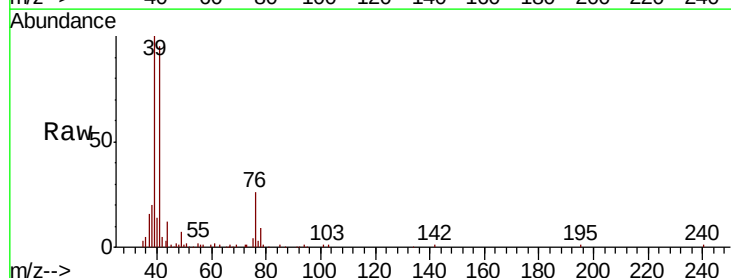
Tgt Ion: 41 Resp: 46909

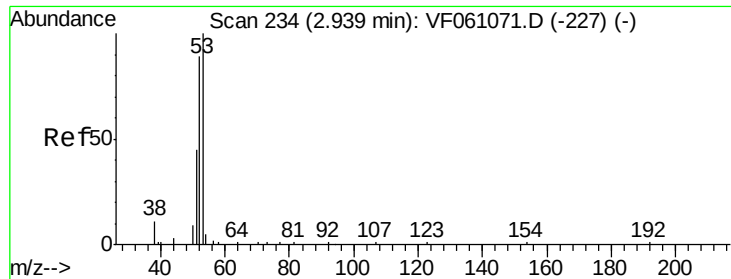
Ion Ratio Lower Upper

41 100

39 105.4 96.4 144.6

76 27.0 25.4 38.0





#15

Acrylonitrile

Concen: 113.199 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

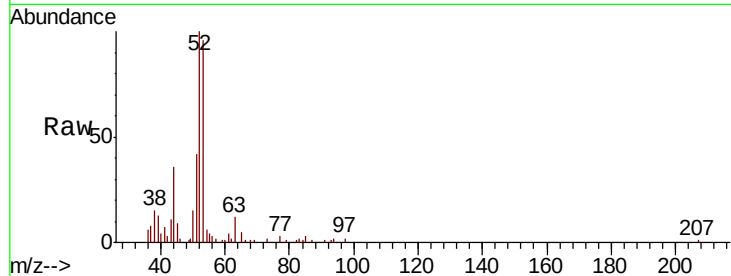
Tot Ion: 53 Resp: 27820

Ion Ratio Lower Upper

53 100

52 104.1 71.3 106.9

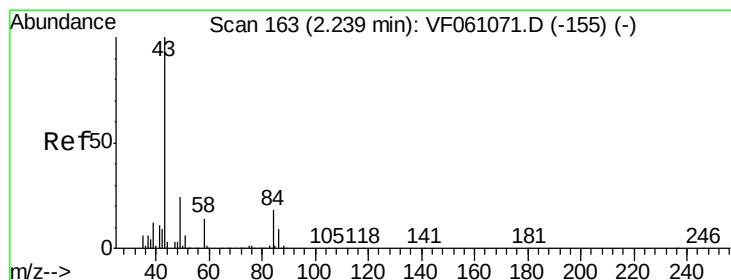
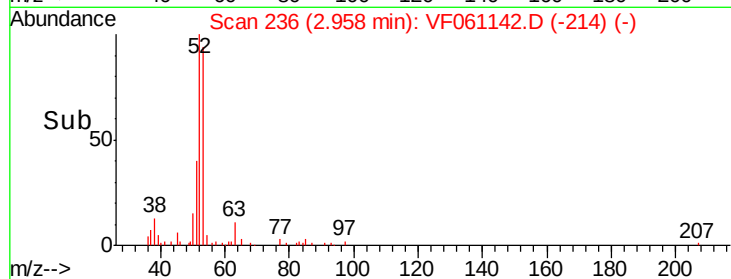
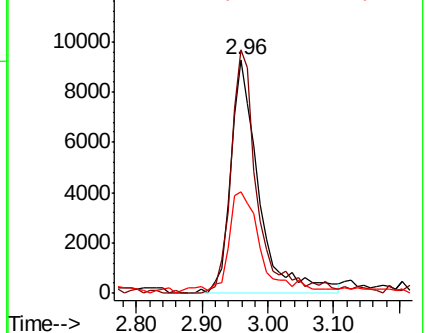
51 43.2 36.8 55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 95.671 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061142.D

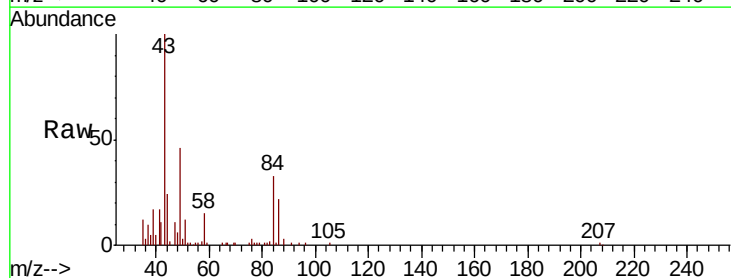
Acq: 22 Dec 2018 14:04

Tgt Ion: 43 Resp: 50371

Ion Ratio Lower Upper

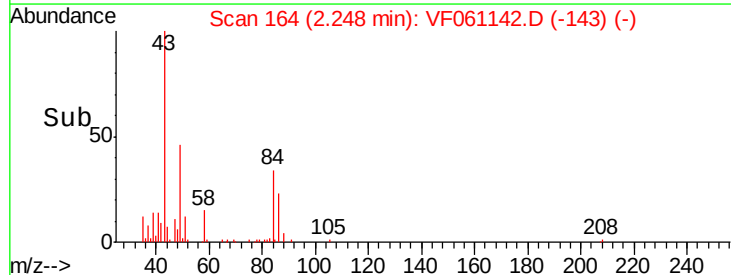
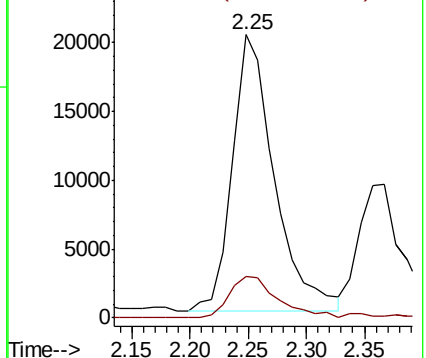
43 100

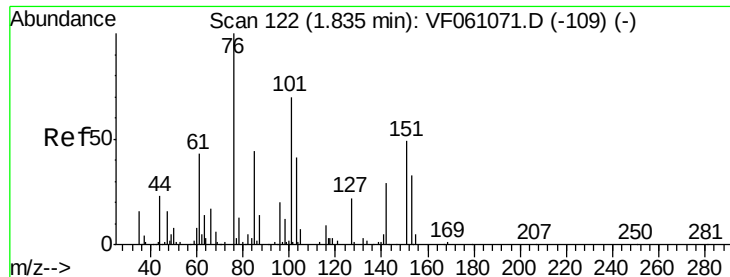
58 14.8 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

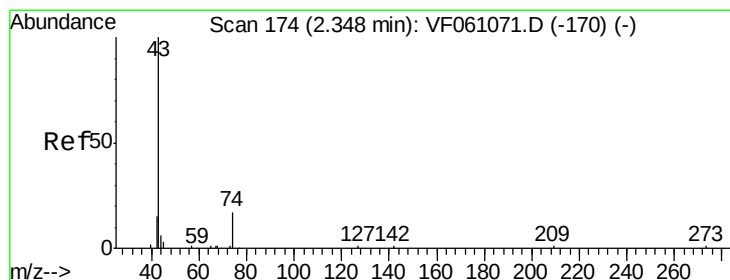
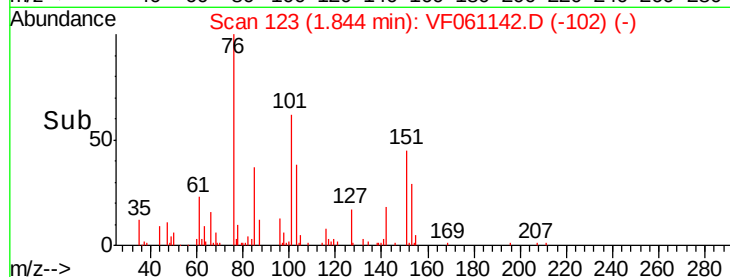
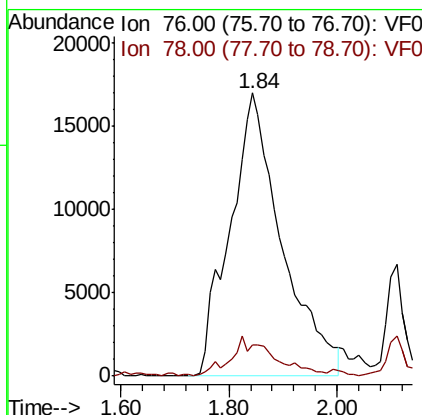
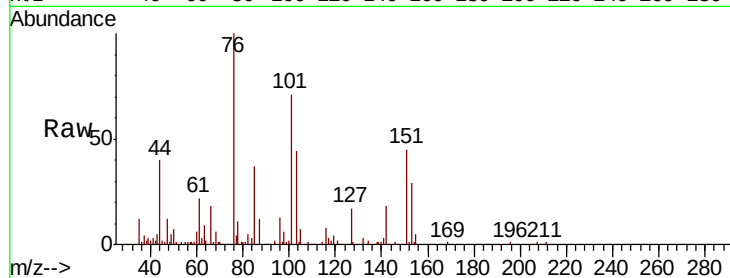




#17
Carbon Disulfide
Concen: 20.836 ug/l
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

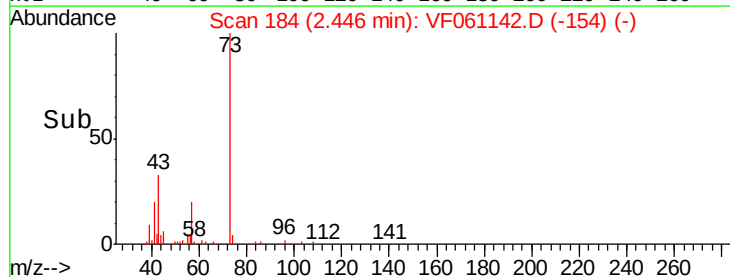
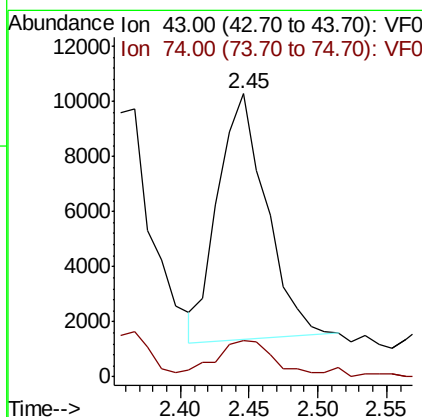
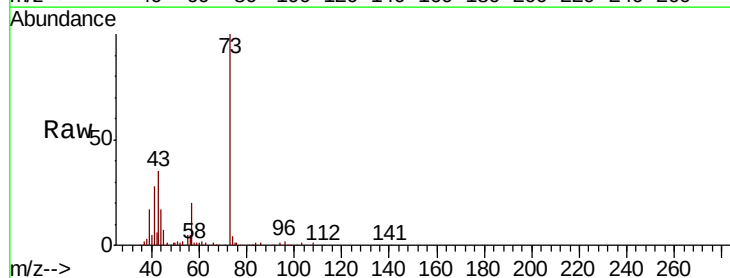
Instrument :
MSVOA_F
ClientSampleId :

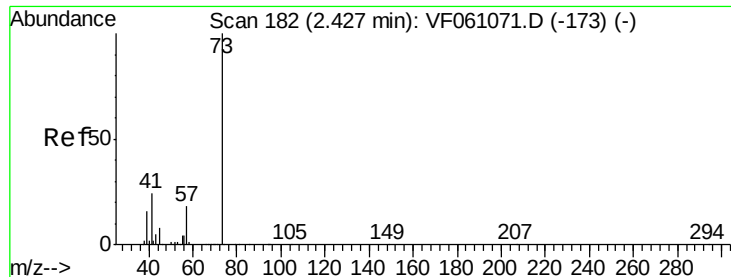
Tot Ion: 76 Resp: 113660
Ion Ratio Lower Upper
76 100
78 10.8 10.2 15.4



#18
Methyl Acetate
Concen: 20.093 ug/l
RT: 2.45 min Scan# 184
Delta R.T. 0.10 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 43 Resp: 21887
Ion Ratio Lower Upper
43 100
74 12.8 11.0 16.6

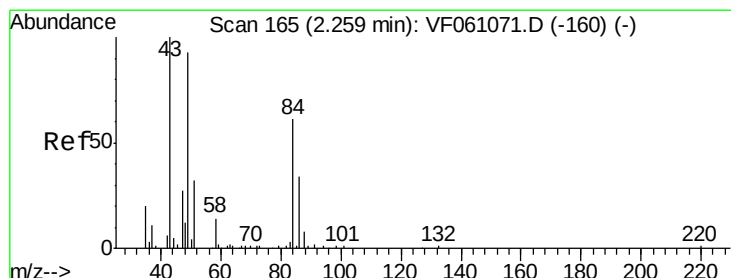
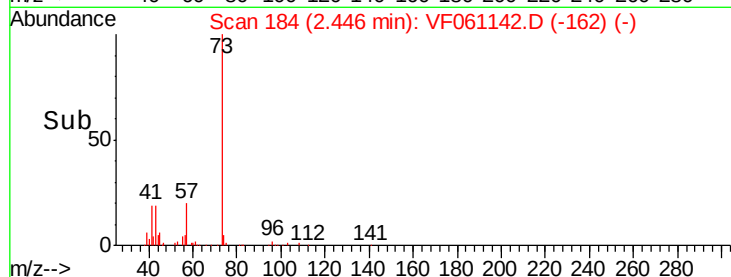
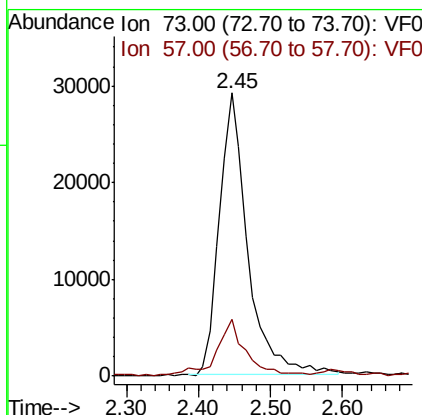
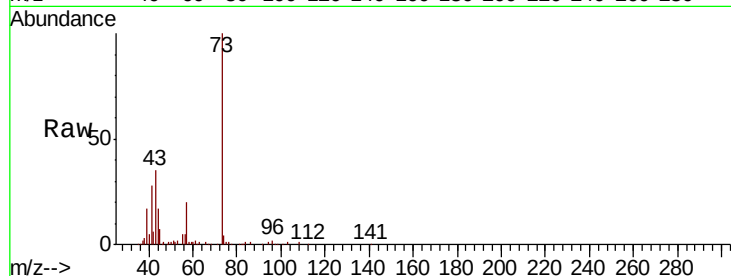




#19
Methyl tert-butyl Ether
Concen: 19.885 ug/l
RT: 2.45 min Scan# 184
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

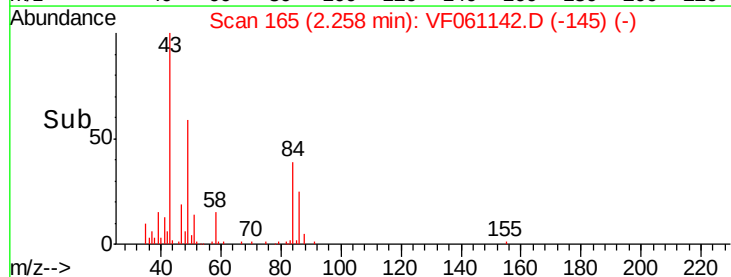
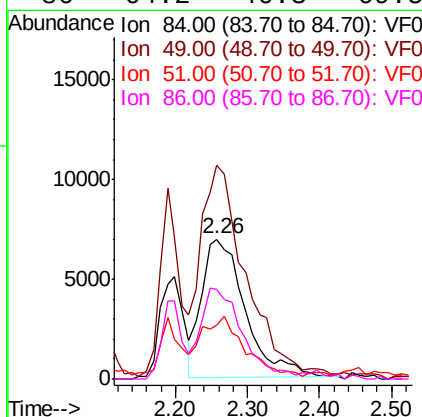
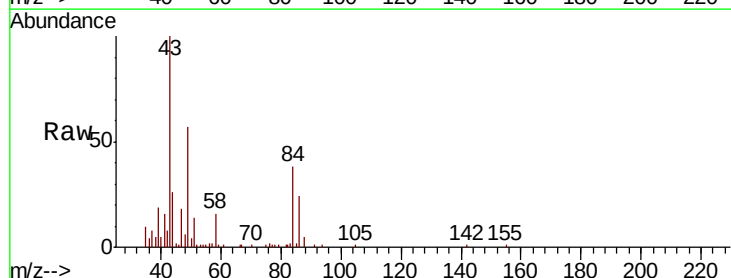
Instrument :
MSVOA_F
ClientSampleId :

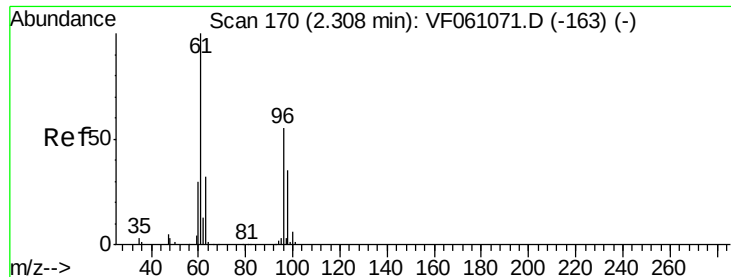
Tot Ion: 73 Resp: 79669
Ion Ratio Lower Upper
73 100
57 19.9 14.5 21.7



#20
Methylene Chloride
Concen: 14.118 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.00 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 84 Resp: 29177
Ion Ratio Lower Upper
84 100
49 152.4 129.4 194.2
51 38.2 44.0 66.0#
86 64.2 46.3 69.5





#21

trans-1,2-Dichloroethene

Concen: 16.865 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :

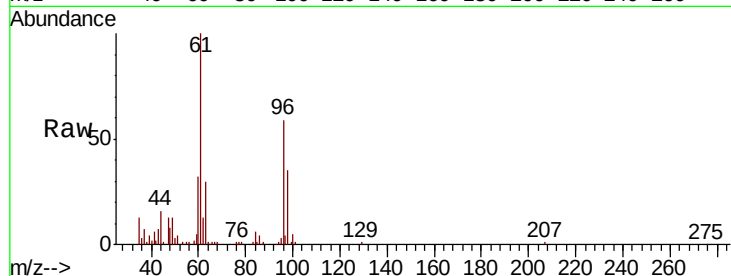
Tot Ion: 96 Resp: 32560

Ion Ratio Lower Upper

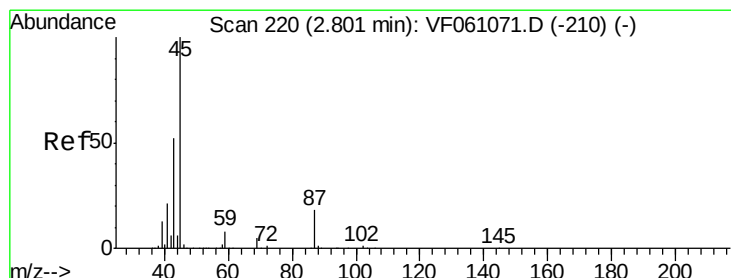
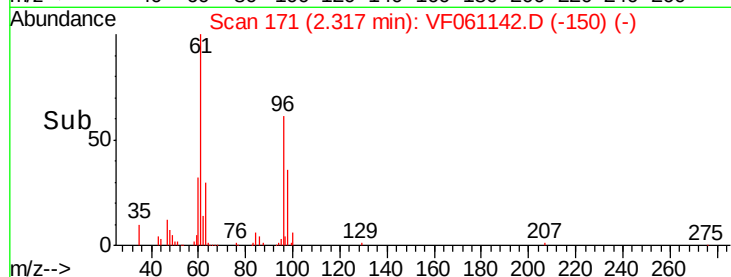
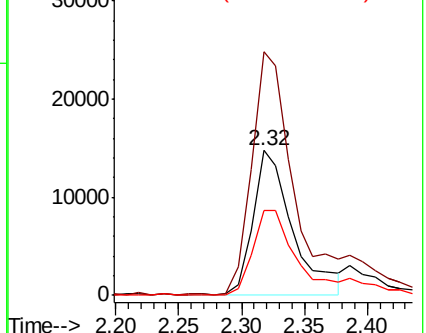
96 100

61 168.3 146.0 219.0

98 59.0 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 20.674 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion: 45 Resp: 129357

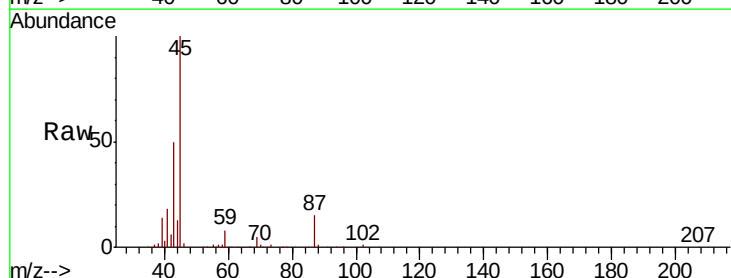
Ion Ratio Lower Upper

45 100

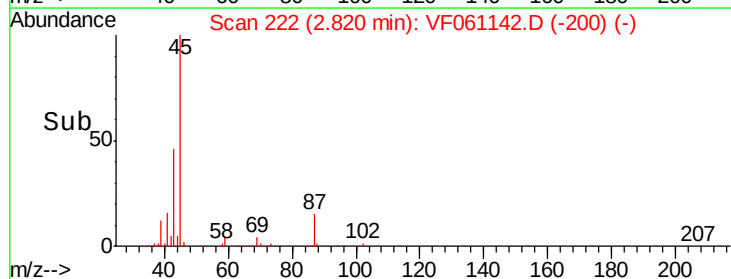
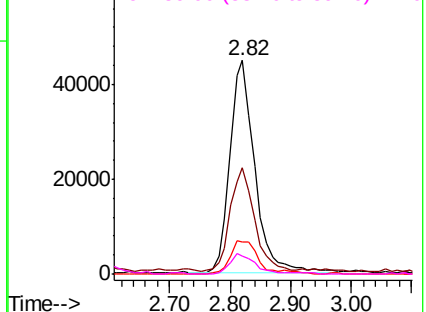
43 50.0 42.2 63.2

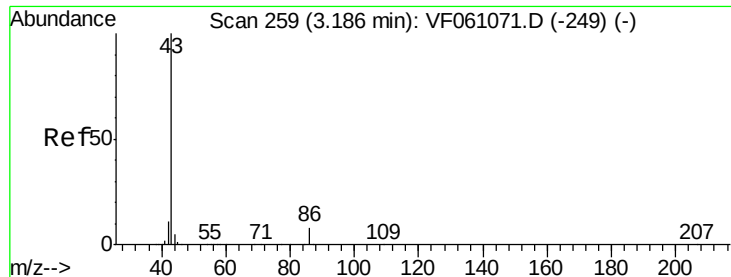
87 15.2 14.6 22.0

59 8.4 7.0 10.4



Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 113.515 ug/l

RT: 3.21 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

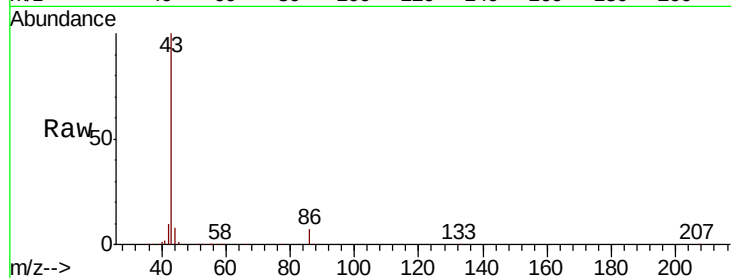
ClientSampled :

Tot Ion: 43 Resp: 327668

Ion Ratio Lower Upper

43 100

86 7.0 6.3 9.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

150000

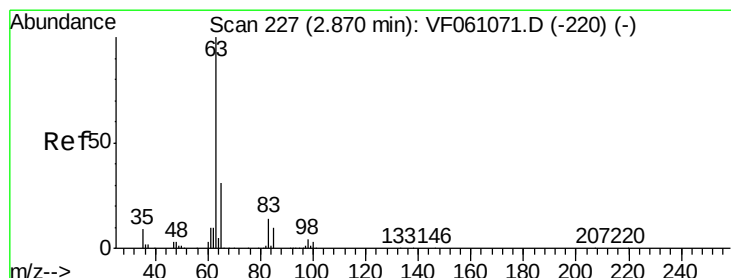
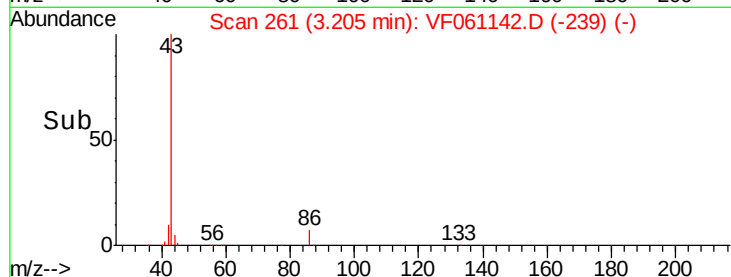
100000

50000

0

3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 21.131 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

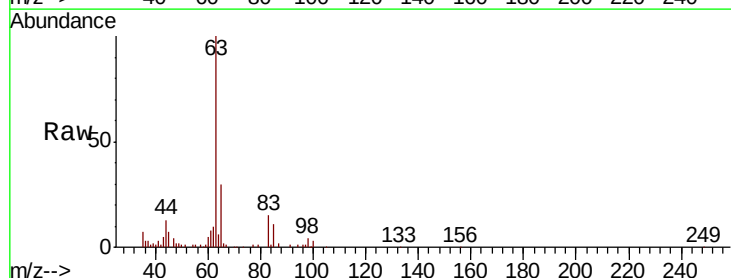
Tgt Ion: 63 Resp: 78340

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.5

100 3.1 1.7 5.1



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

40000

30000

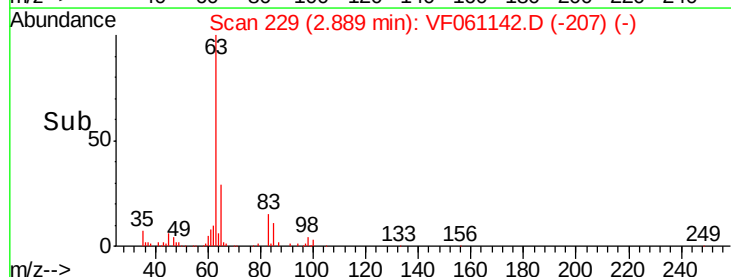
20000

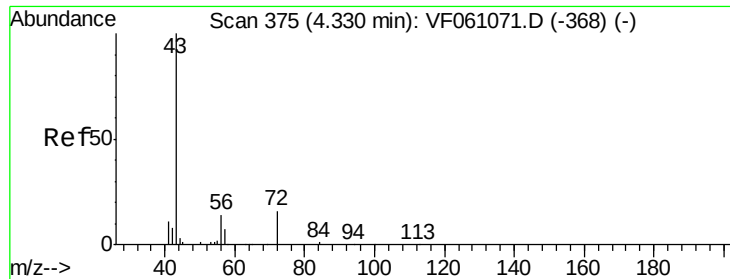
10000

0

2.80 2.90 3.00

Time-->





#25

2-Butanone

Concen: 108.448 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.04 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

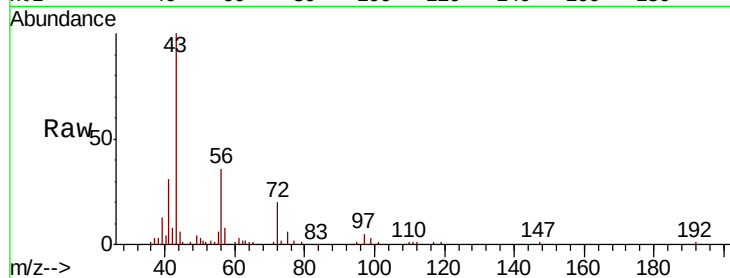
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 92603

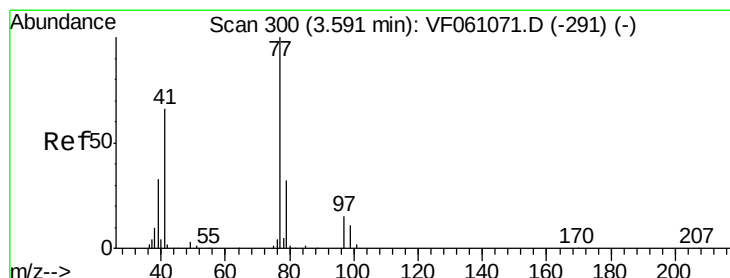
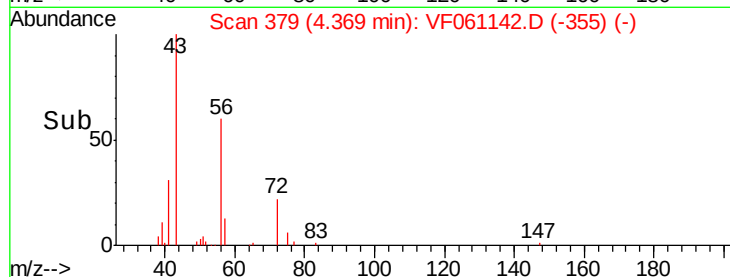
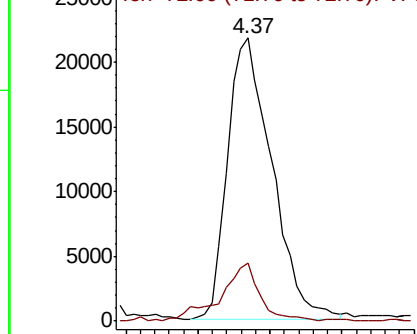
Ion Ratio Lower Upper

43 100

72 20.3 15.6 23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 20.572 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.03 min

Lab File: VF061142.D

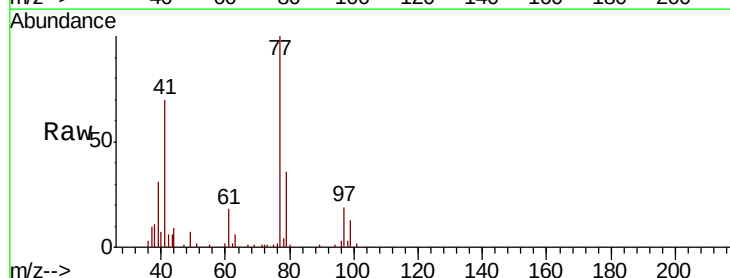
Acq: 22 Dec 2018 14:04

Tgt Ion: 77 Resp: 43768

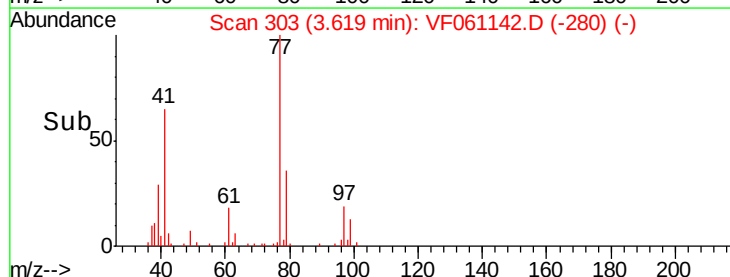
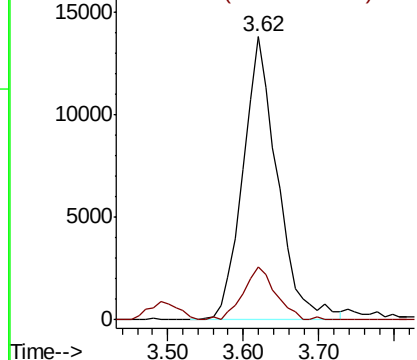
Ion Ratio Lower Upper

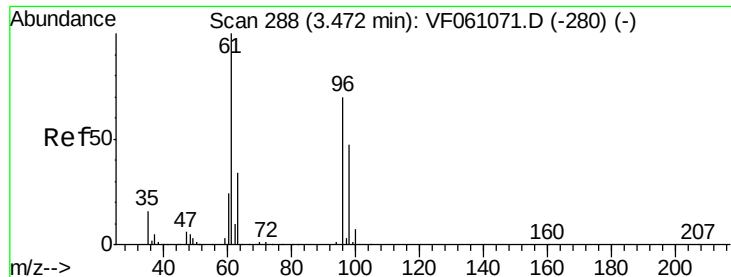
77 100

97 18.8 8.2 24.4



Abundance Ion 77.00 (76.70 to 77.70): VF0
Ion 97.00 (96.70 to 97.70): VF0



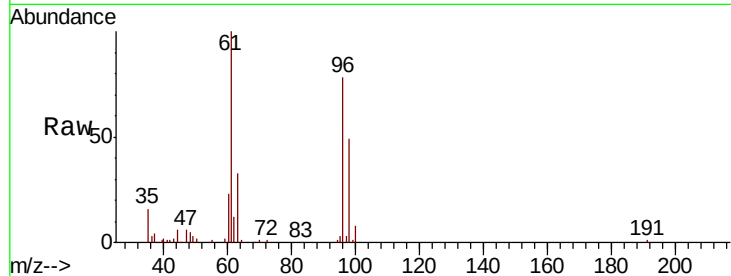


#27

cis-1,2-Dichloroethene
 Concen: 19.669 ug/l
 RT: 3.50 min Scan# 291
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	127.9	0.0	287.8
98	62.4	0.0	134.2

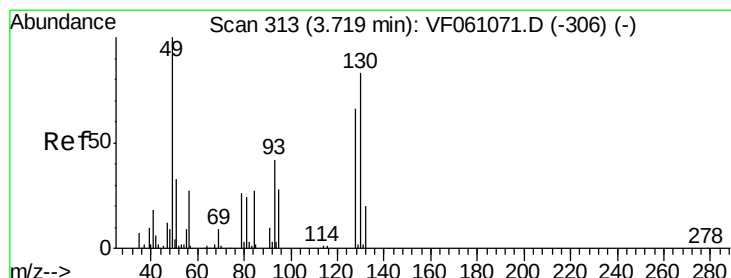
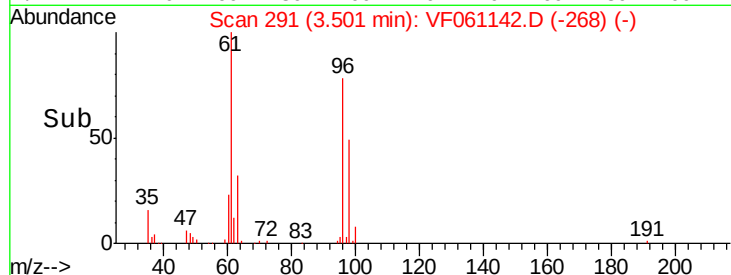
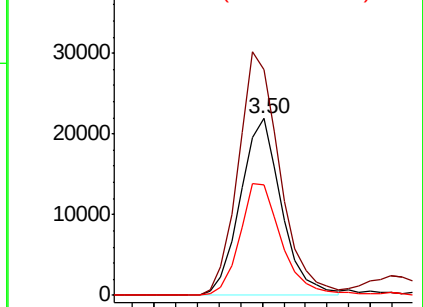


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

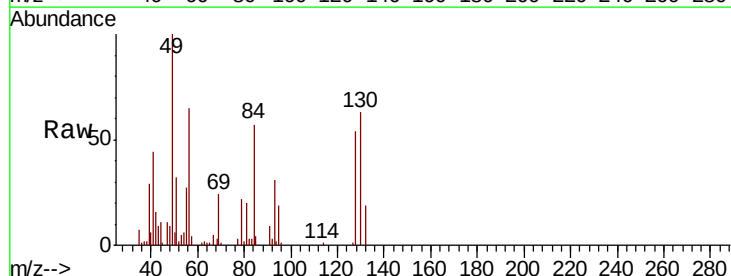
Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane
 Concen: 21.968 ug/l
 RT: 3.74 min Scan# 315
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	63.2	65.8	98.6#

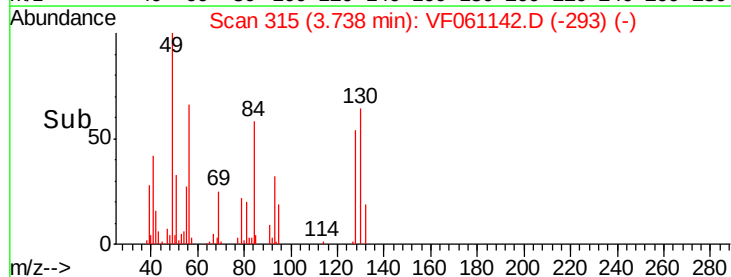
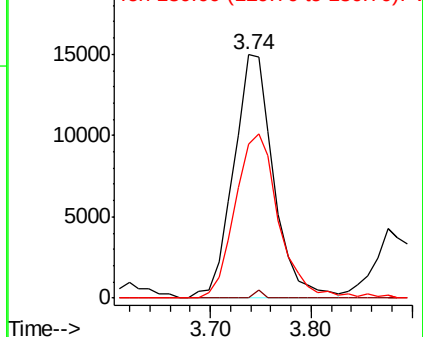


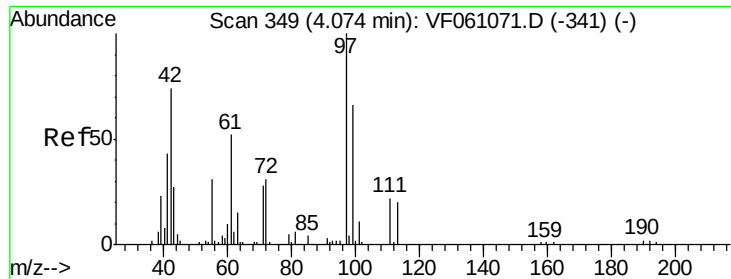
Abundance

Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 112.631 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

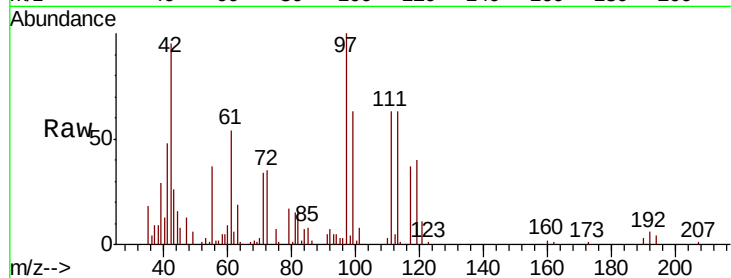
Tot Ion: 42 Resp: 39144

Ion Ratio Lower Upper

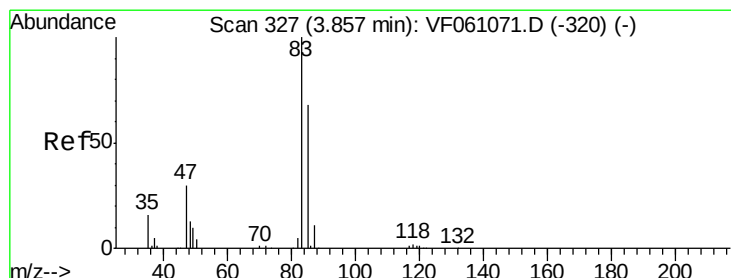
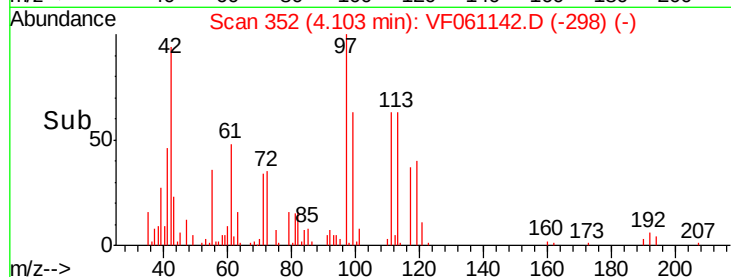
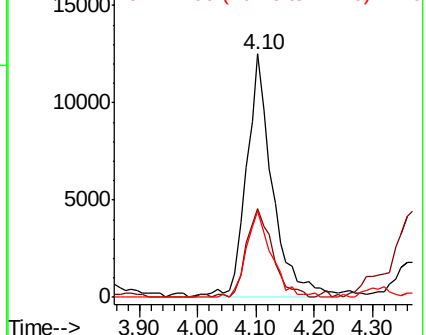
42 100

72 36.4 31.8 47.8

71 34.1 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



#30

Chloroform

Concen: 20.013 ug/l

RT: 3.89 min Scan# 330

Delta R.T. 0.03 min

Lab File: VF061142.D

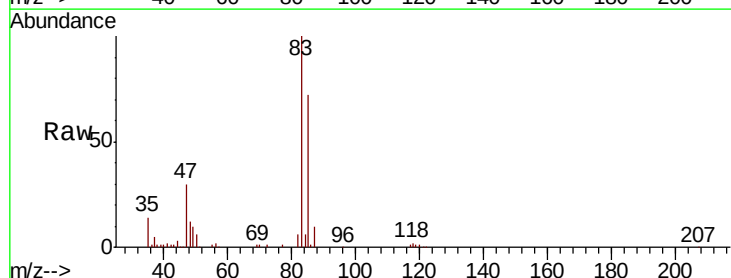
Acq: 22 Dec 2018 14:04

Tgt Ion: 83 Resp: 111250

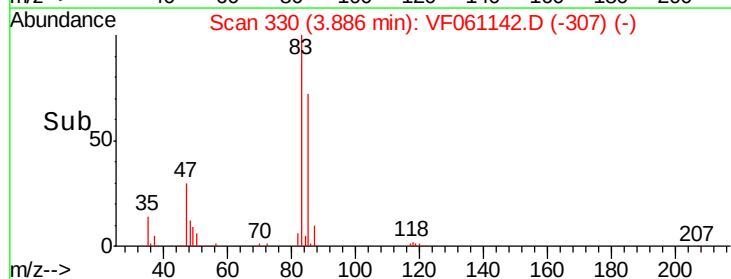
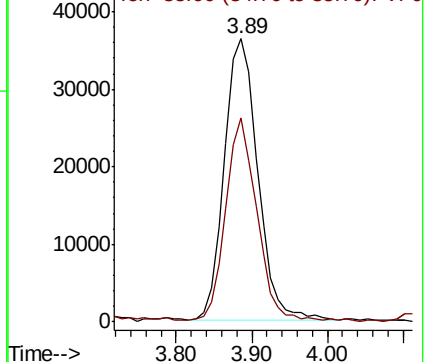
Ion Ratio Lower Upper

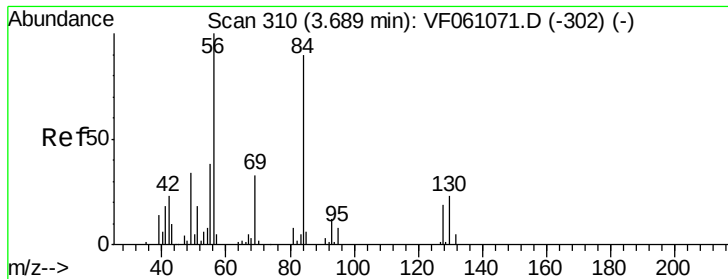
83 100

85 72.0 54.5 81.7



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0

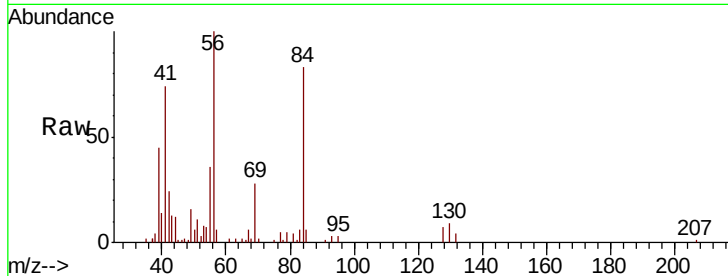




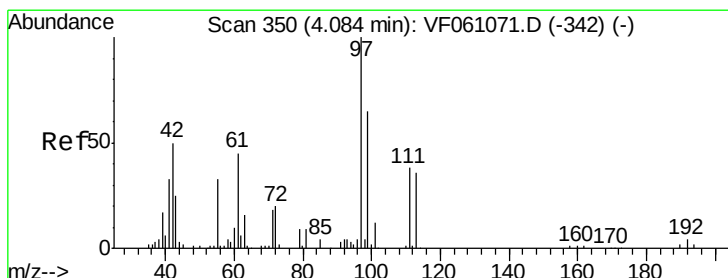
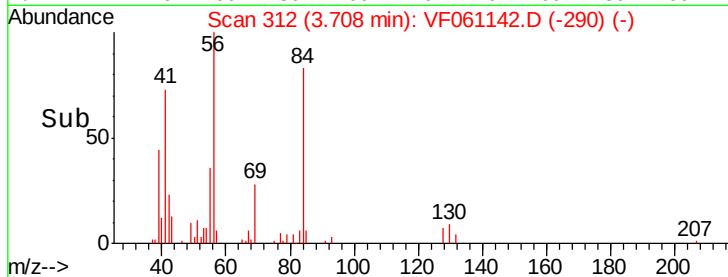
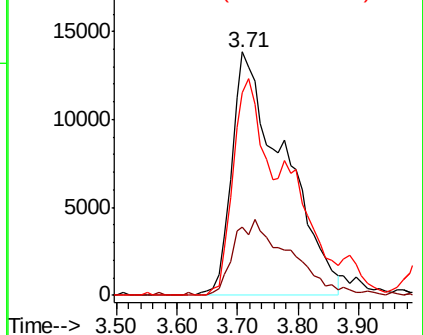
#31
Cyclohexane
Concen: 21.690 ug/l
RT: 3.71 min Scan# 312
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 83441
Ion Ratio Lower Upper
56 100
69 28.1 26.0 39.0
84 83.0 71.4 107.2

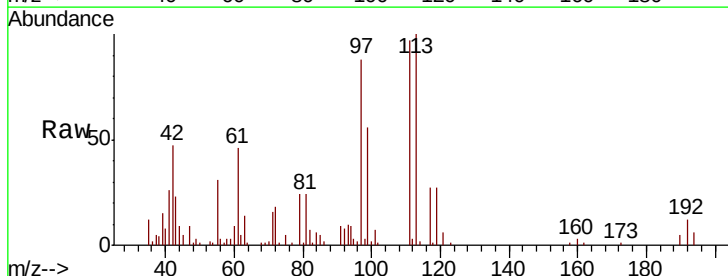


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

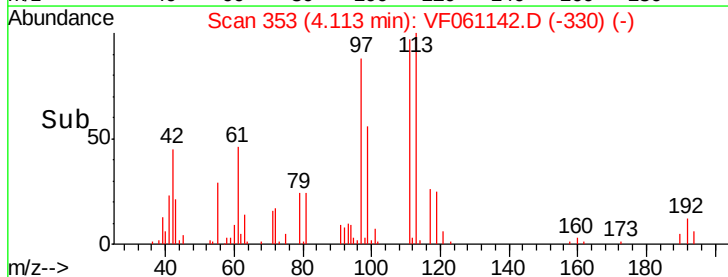
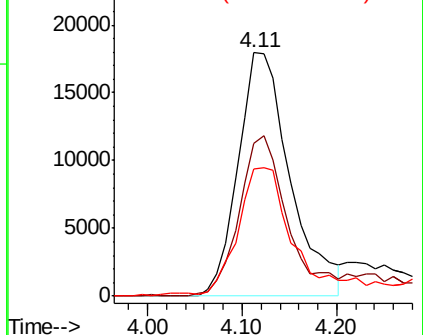


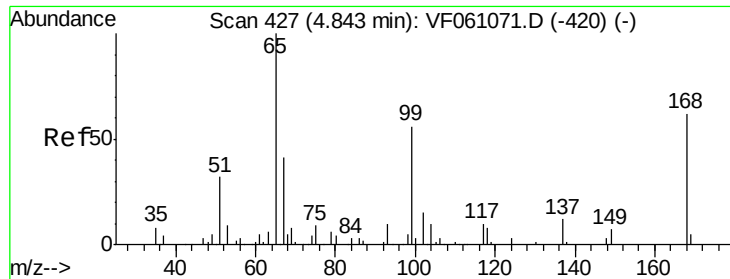
#32
1,1,1-Trichloroethane
Concen: 20.670 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 97 Resp: 68870
Ion Ratio Lower Upper
97 100
99 62.8 51.6 77.4
61 52.2 36.2 54.2



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

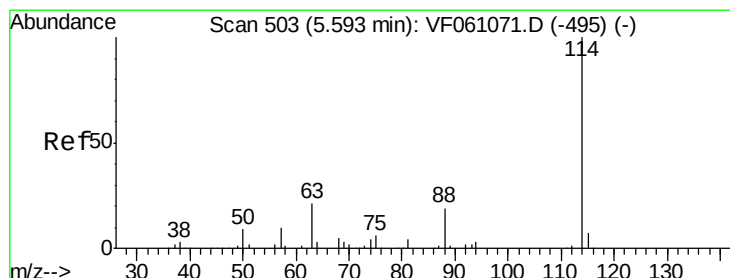
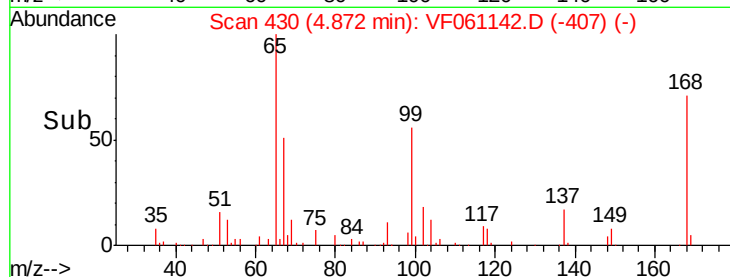
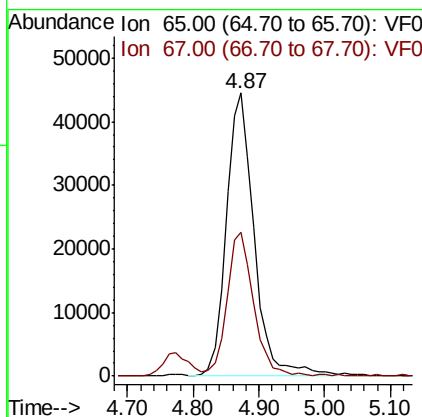
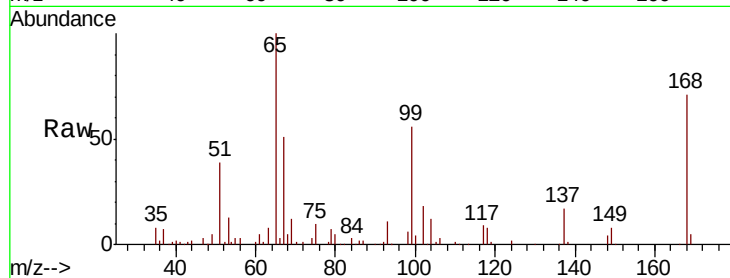




#33
 1,2-Dichloroethane-d4
 Concen: 49.269 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

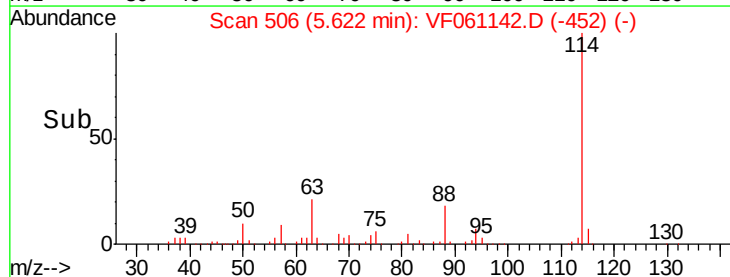
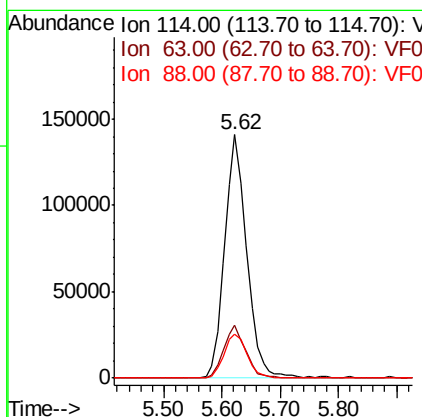
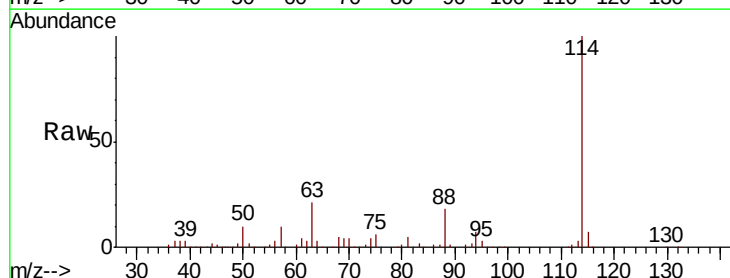
Instrument :
 MSVOA_F
 ClientSampleId :

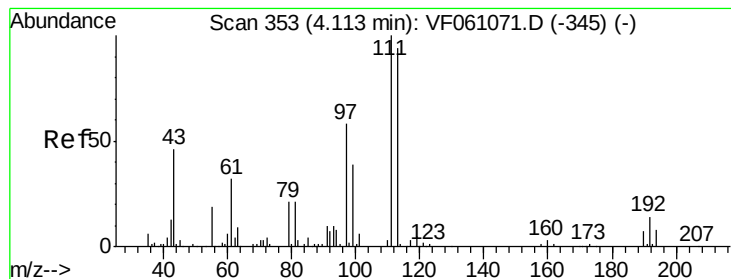
Tot Ion: 65 Resp: 129759
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion: 114 Resp: 371705
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 41.6
 88 18.2 0.0 38.0





#35

Dibromofluoromethane

Concen: 50.305 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :

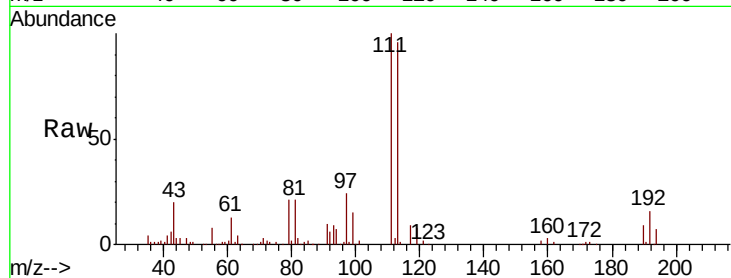
Tot Ion:113 Resp: 149788

Ion Ratio Lower Upper

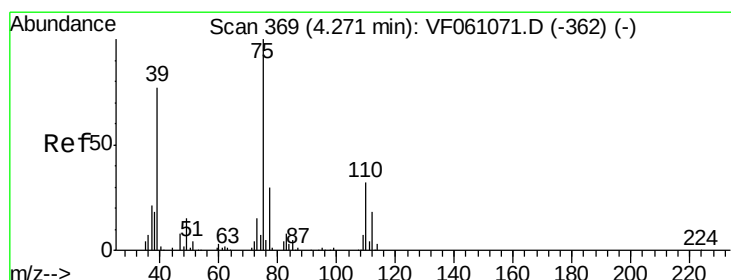
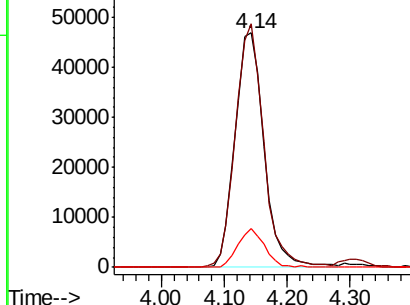
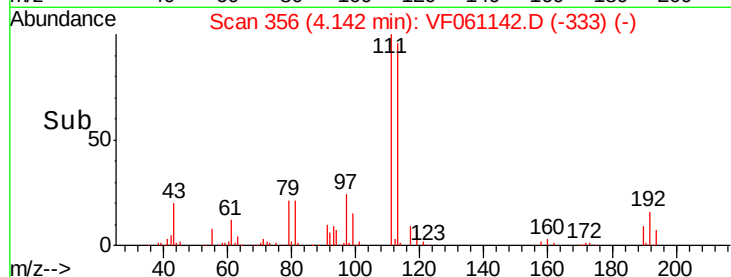
113 100

111 103.8 85.2 127.8

192 16.6 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



#36

1,1-Dichloropropene

Concen: 17.878 ug/l

RT: 4.31 min Scan# 373

Delta R.T. 0.04 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

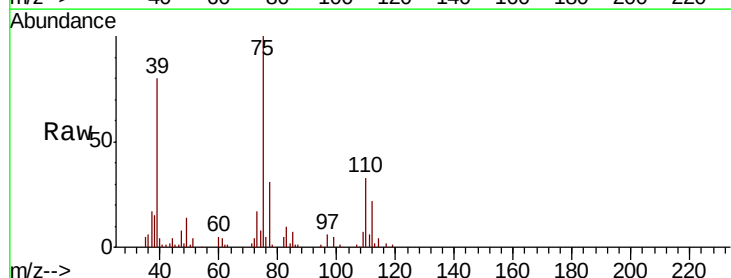
Tgt Ion: 75 Resp: 80212

Ion Ratio Lower Upper

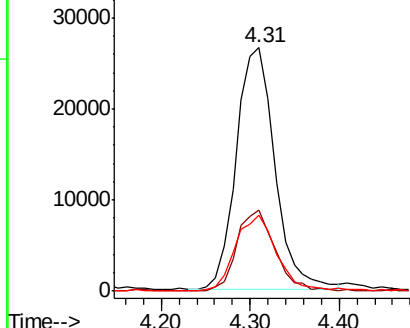
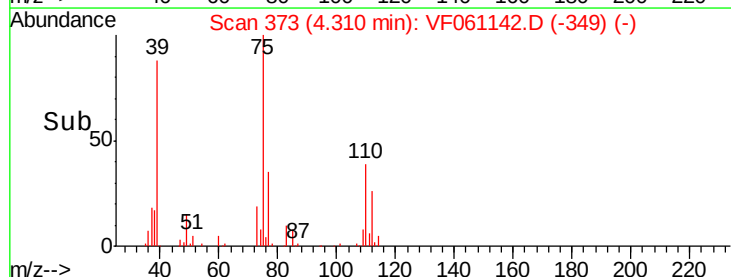
75 100

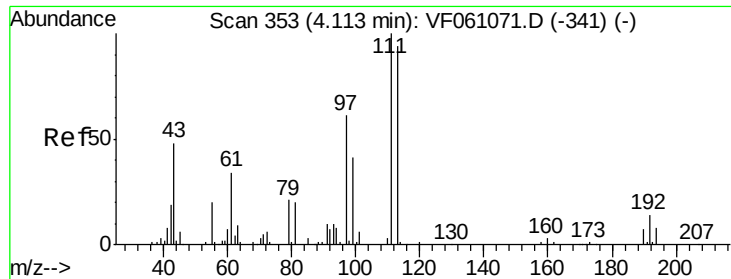
110 33.4 16.1 48.2

77 31.2 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 21.186 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampled :

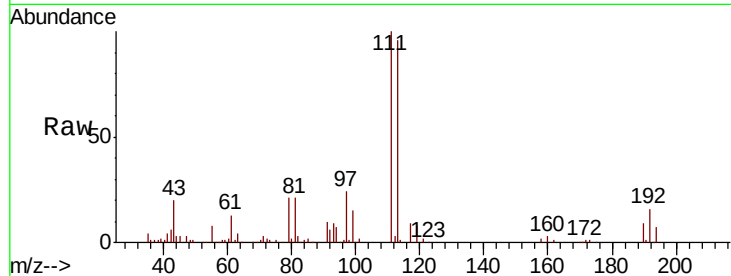
Tot Ion: 43 Resp: 40827

Ion Ratio Lower Upper

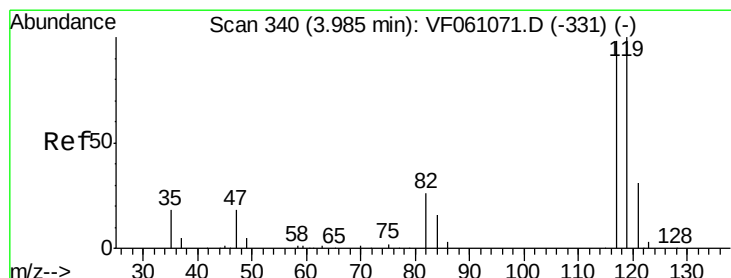
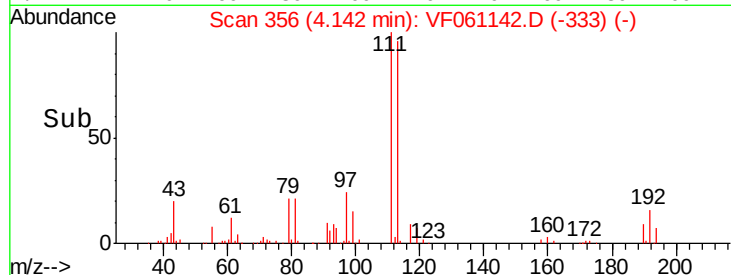
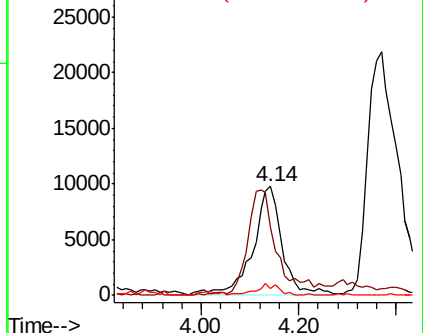
43 100

61 63.2 56.6 84.8

70 6.8 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



#38

Carbon Tetrachloride

Concen: 19.651 ug/l

RT: 4.01 min Scan# 343

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

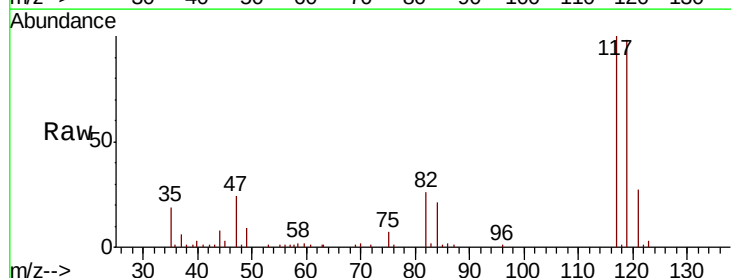
Tgt Ion: 117 Resp: 67143

Ion Ratio Lower Upper

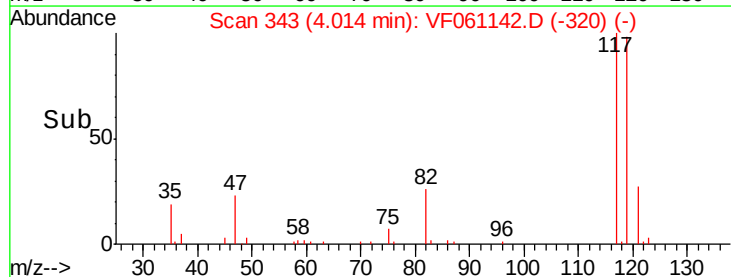
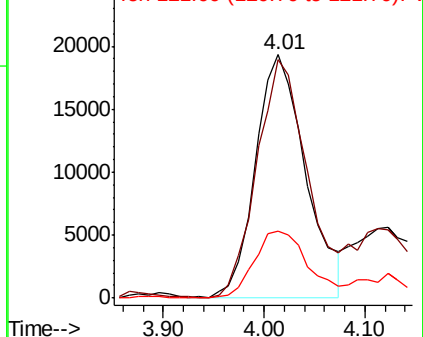
117 100

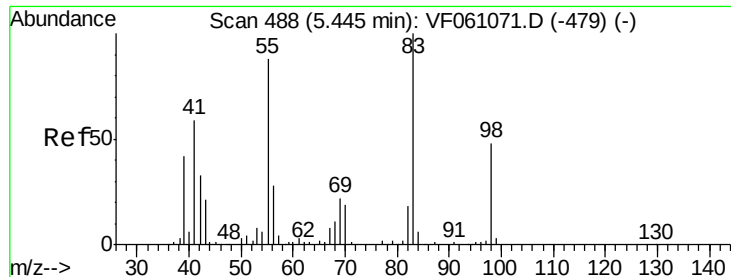
119 97.9 82.1 123.1

121 27.5 25.5 38.3



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

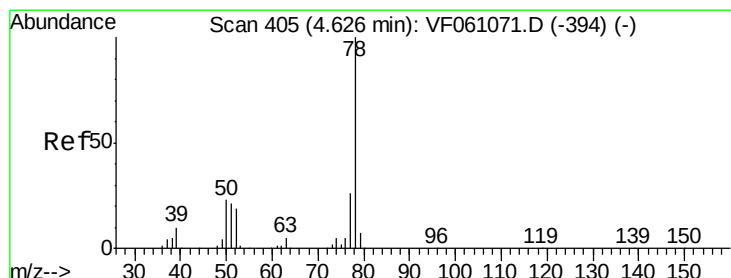
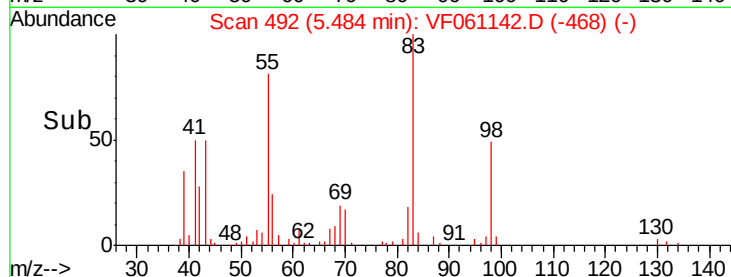
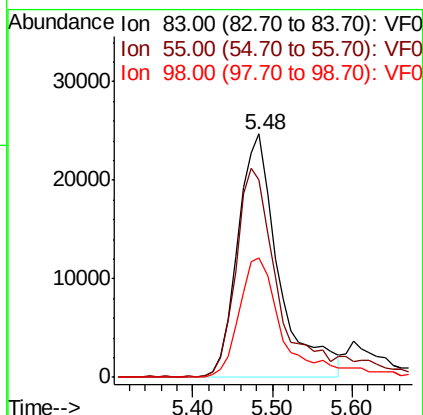
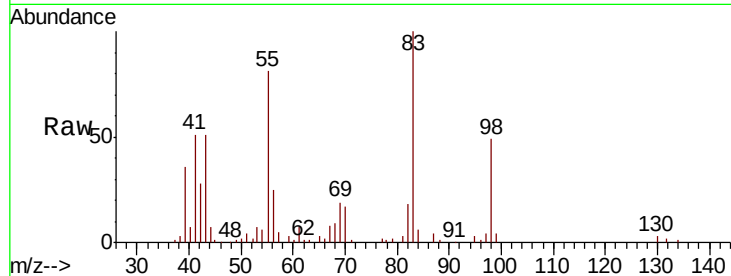




#39
Methylvlcyclohexane
Concen: 21.869 ug/l
RT: 5.48 min Scan# 492
Delta R.T. 0.04 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

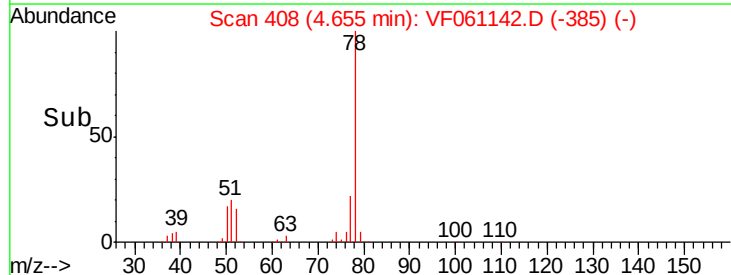
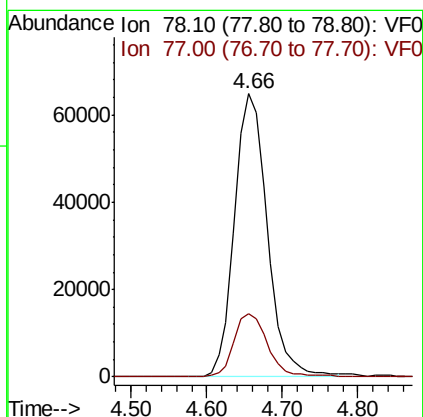
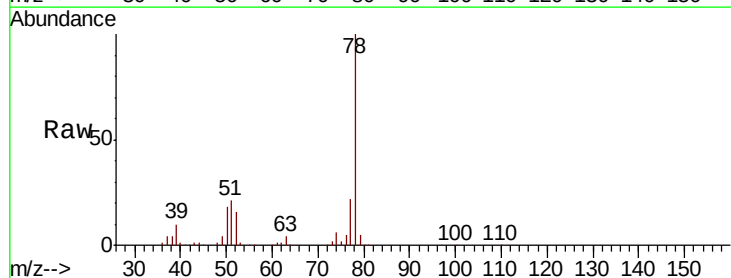
Instrument :
MSVOA_F
ClientSampleId :

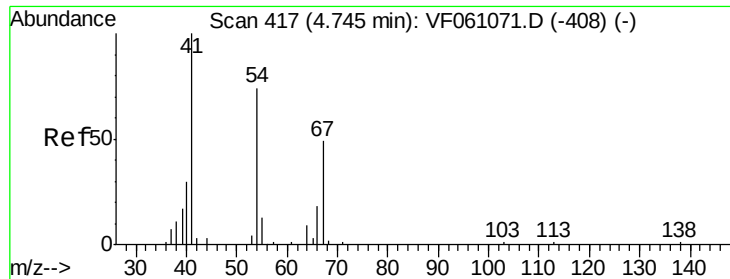
Tot Ion: 83 Resp: 88028
Ion Ratio Lower Upper
83 100
55 81.3 70.6 105.8
98 48.8 38.5 57.7



#40
Benzene
Concen: 20.214 ug/l
RT: 4.66 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 78 Resp: 195036
Ion Ratio Lower Upper
78 100
77 22.3 20.7 31.1

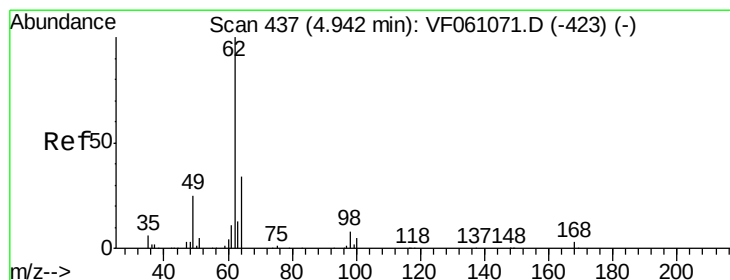
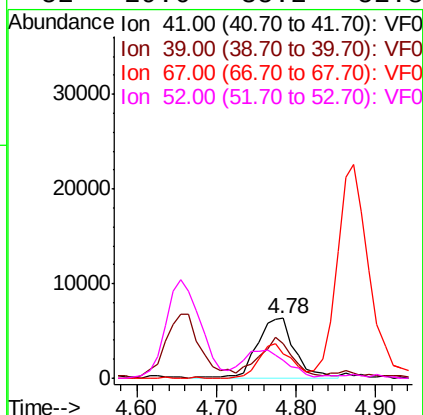
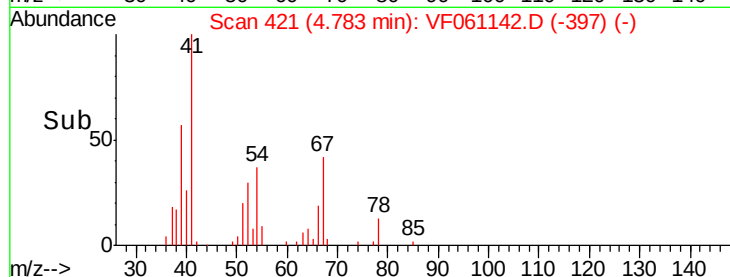
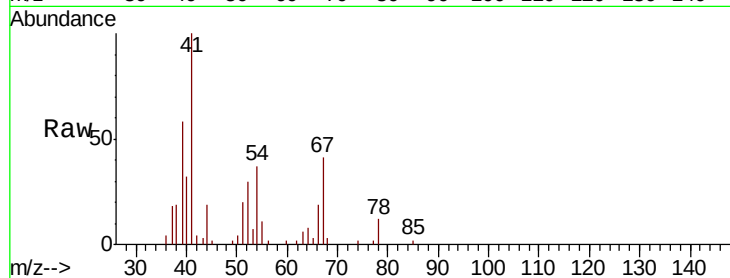




#41
Methacrylonitrile
Concen: 21.912 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.04 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

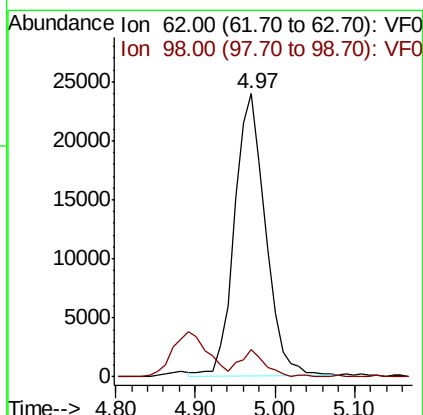
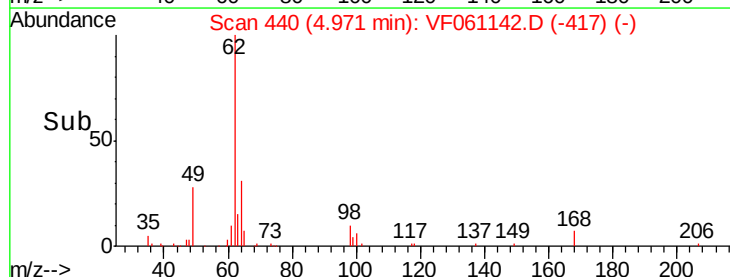
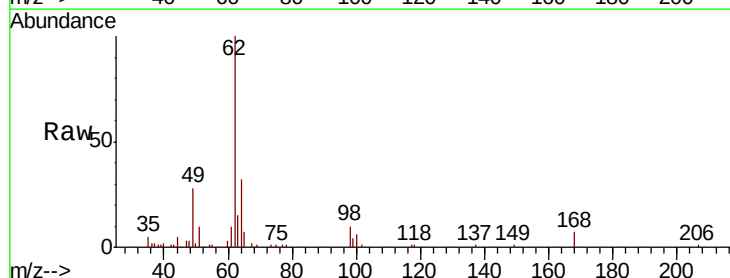
Instrument :
MSVOA_F
ClientSampleId :

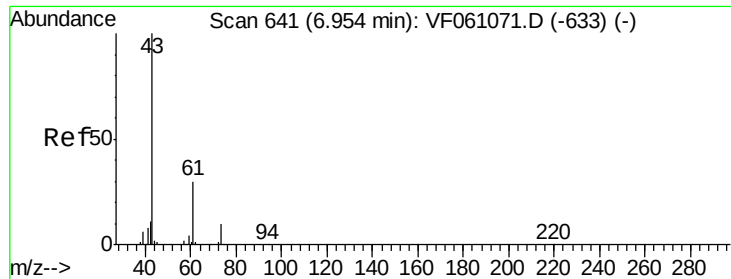
Tot Ion: 41 Resp: 20763
Ion Ratio Lower Upper
41 100
39 57.5 45.7 68.5
67 41.1 38.9 58.3
52 29.6 35.2 52.8#



#42
1,2-Dichloroethane
Concen: 17.565 ug/l
RT: 4.97 min Scan# 440
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 62 Resp: 64382
Ion Ratio Lower Upper
62 100
98 9.8 0.0 16.6





#43

Isopropyl Acetate

Concen: 21.340 ug/l

RT: 6.98 min Scan# 644

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampled :

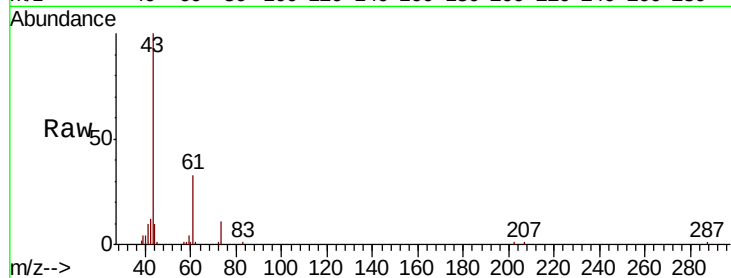
Tot Ion: 43 Resp: 46231

Ion Ratio Lower Upper

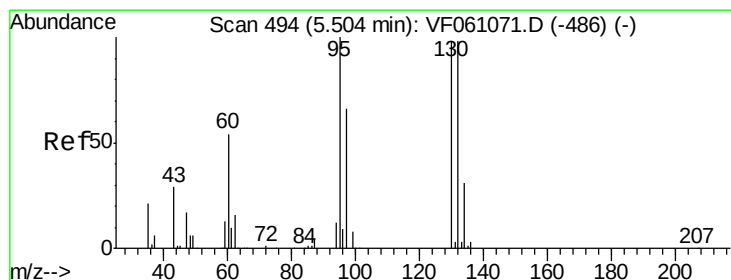
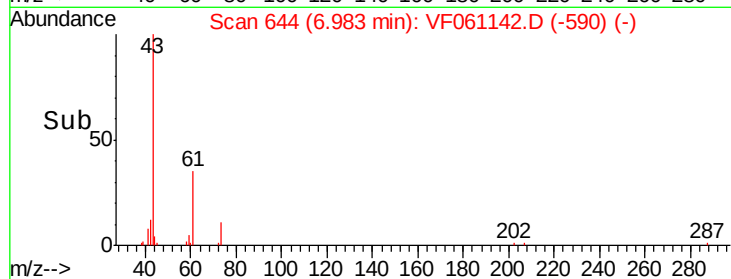
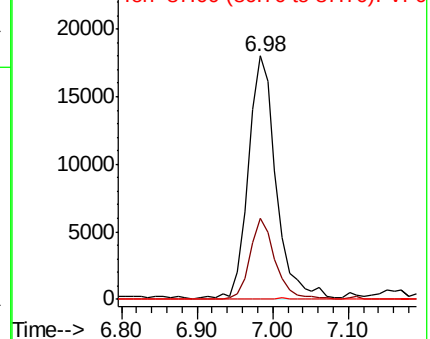
43 100

61 33.1 23.8 35.8

87 0.0 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



#44

Trichloroethene

Concen: 20.346 ug/l

RT: 5.52 min Scan# 496

Delta R.T. 0.02 min

Lab File: VF061142.D

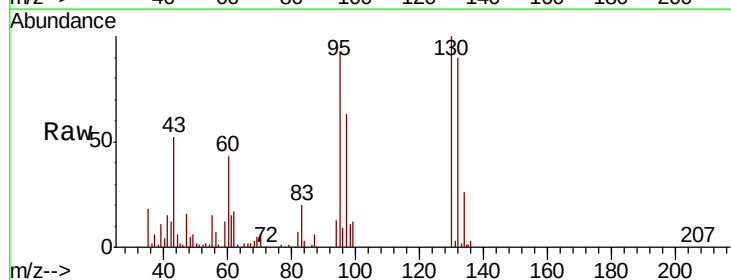
Acq: 22 Dec 2018 14:04

Tgt Ion:130 Resp: 61893

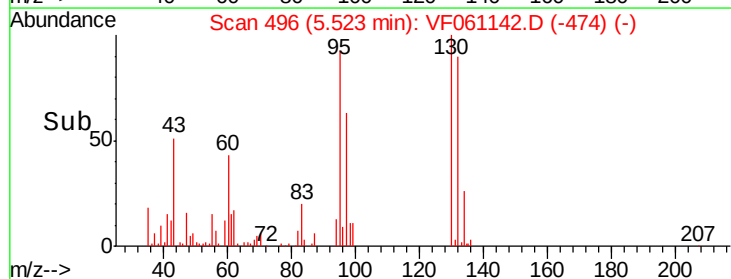
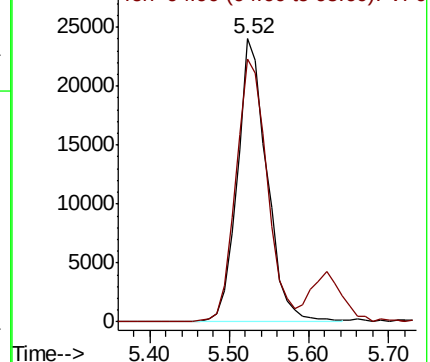
Ion Ratio Lower Upper

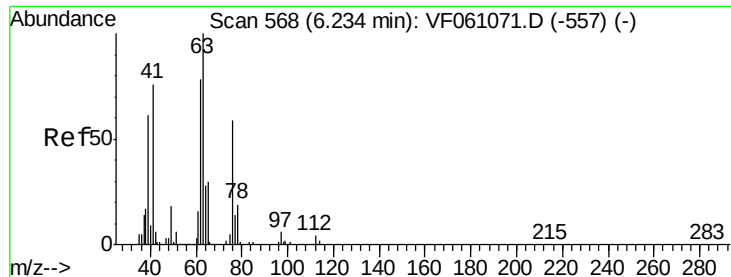
130 100

95 93.1 0.0 205.2



Abundance Ion 129.90 (129.60 to 130.60): V
Ion 94.90 (94.60 to 95.60): VF0

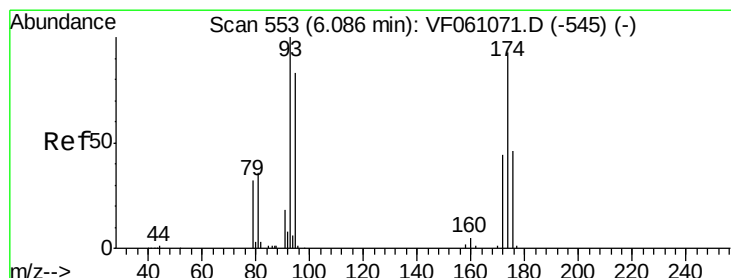
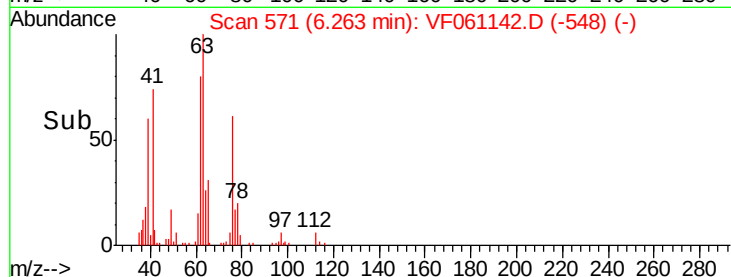
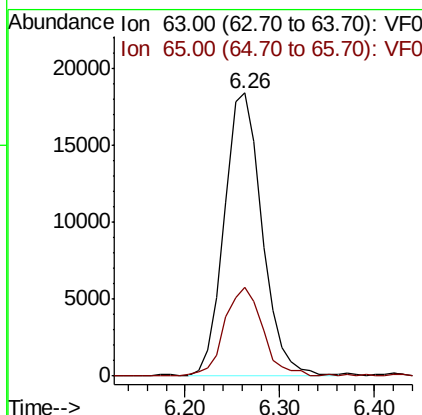
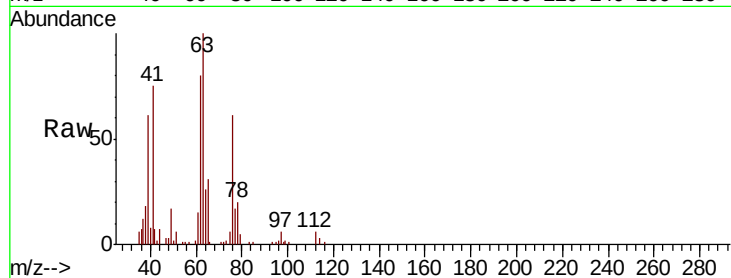




#45
 1,2-Dichloropropane
 Concen: 19.573 ug/l
 RT: 6.26 min Scan# 571
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

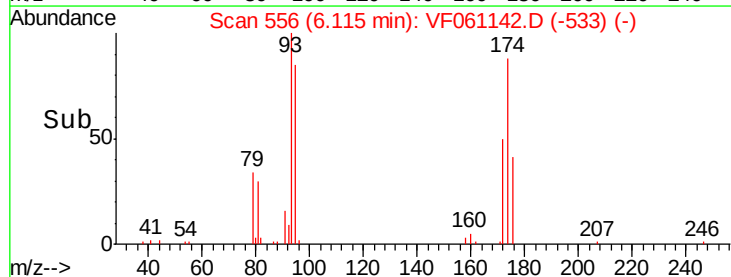
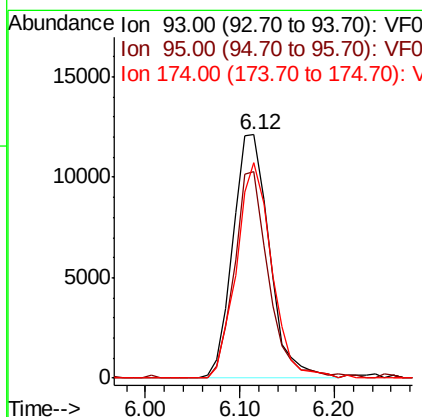
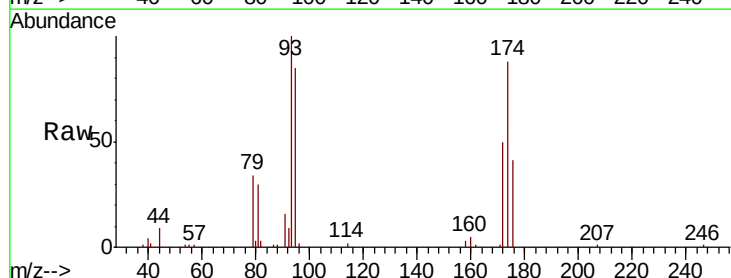
Instrument :
 MSVOA_F
 ClientSampleId :

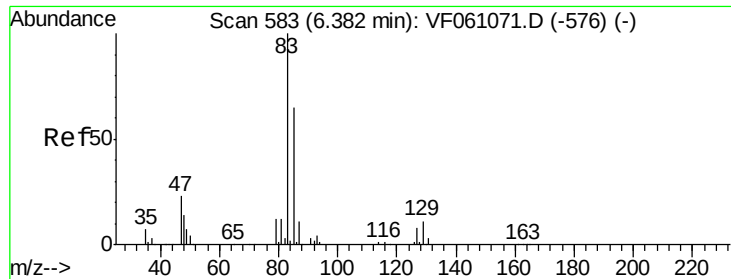
Tot Ion: 63 Resp: 51382
 Ion Ratio Lower Upper
 63 100
 65 31.3 24.4 36.6



#46
 Dibromomethane
 Concen: 19.131 ug/l
 RT: 6.12 min Scan# 556
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion: 93 Resp: 32573
 Ion Ratio Lower Upper
 93 100
 95 84.7 66.9 100.3
 174 88.4 74.1 111.1





#47

Bromodichloromethane

Concen: 19.014 ug/l

RT: 6.41 min Scan# 586

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

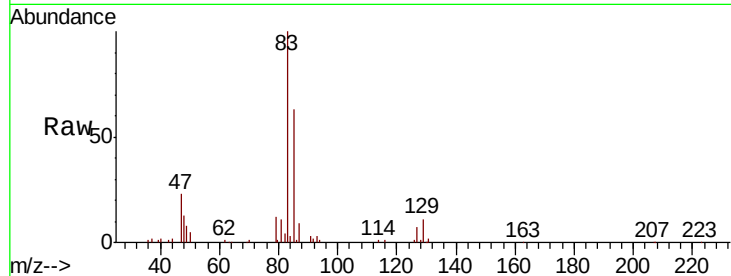
Tot Ion: 83 Resp: 84116

Ion Ratio Lower Upper

83 100

85 63.3 52.2 78.4

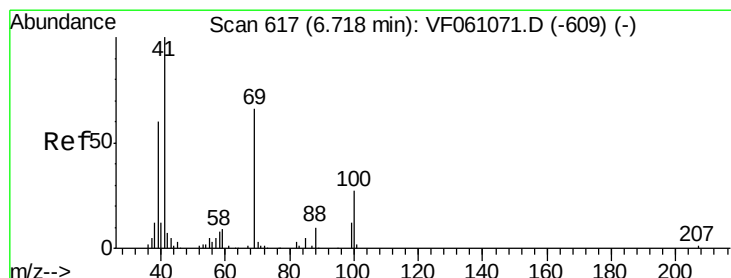
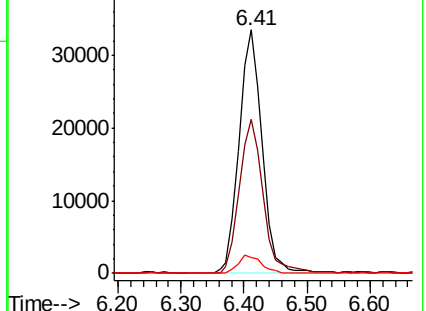
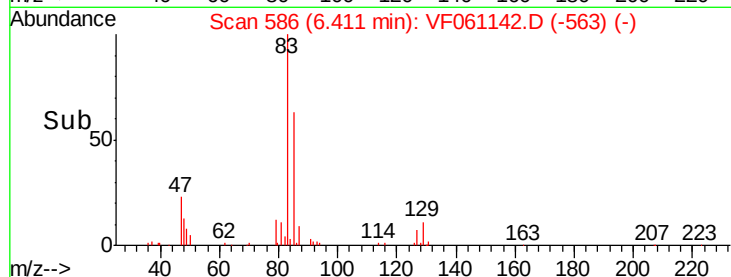
127 6.6 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 19.056 ug/l

RT: 6.75 min Scan# 620

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

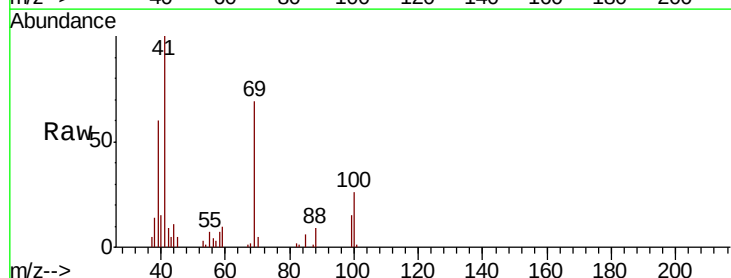
Tgt Ion: 41 Resp: 28820

Ion Ratio Lower Upper

41 100

69 68.8 52.7 79.1

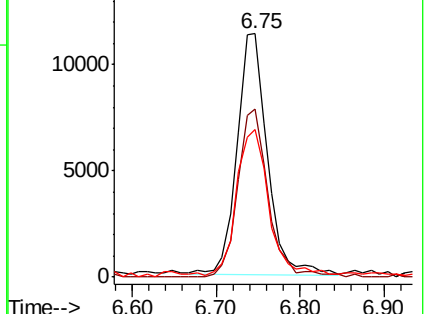
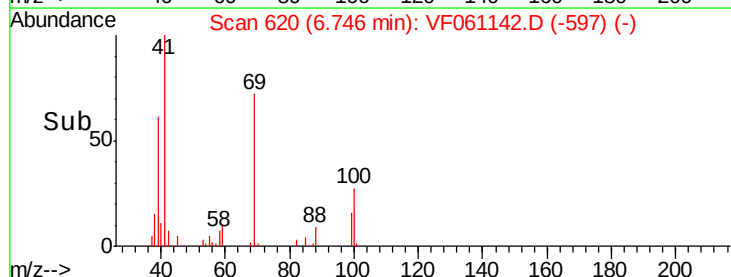
39 60.5 47.8 71.6

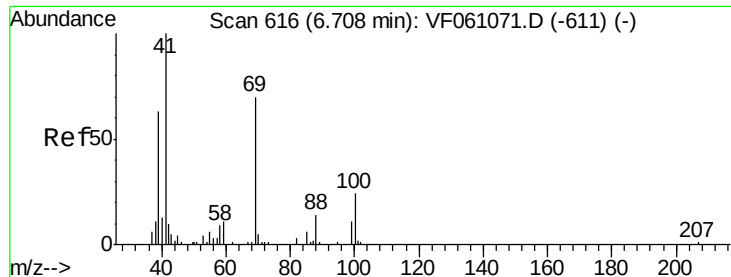


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

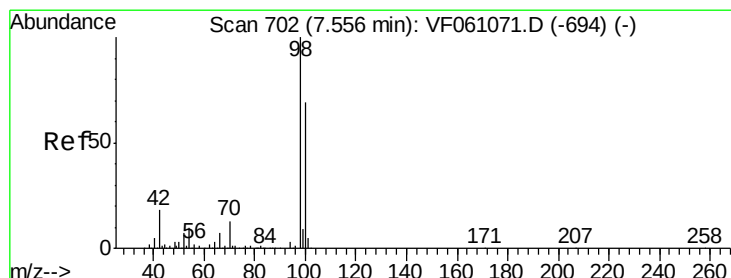
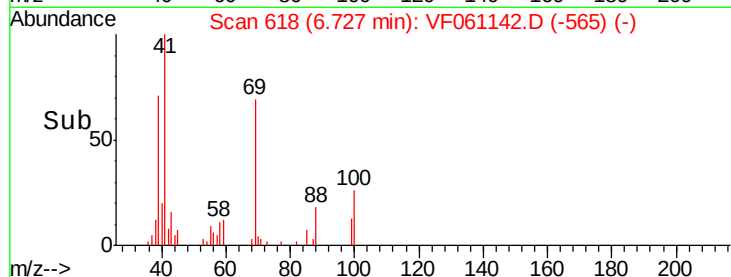
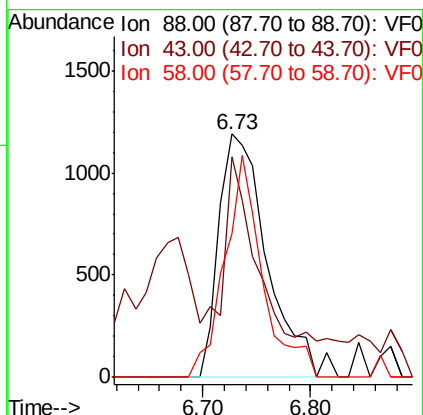
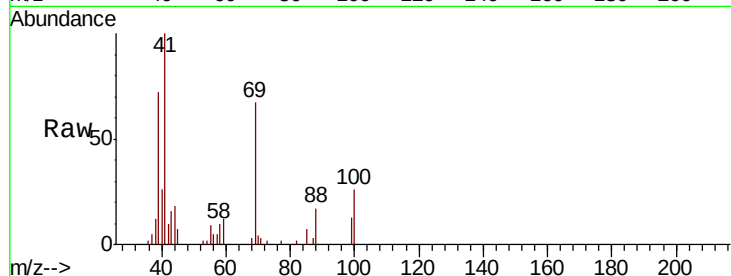




#49
1,4-Dioxane
Concen: 339.169 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

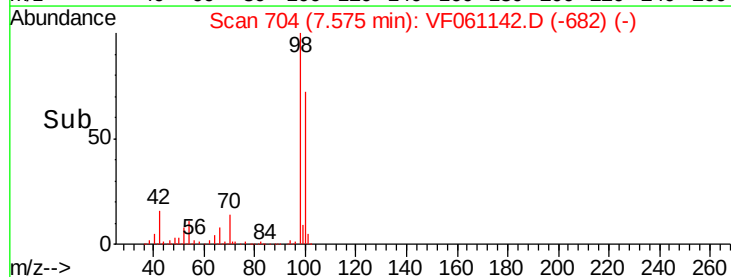
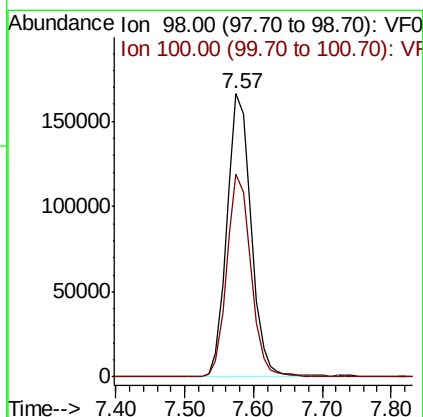
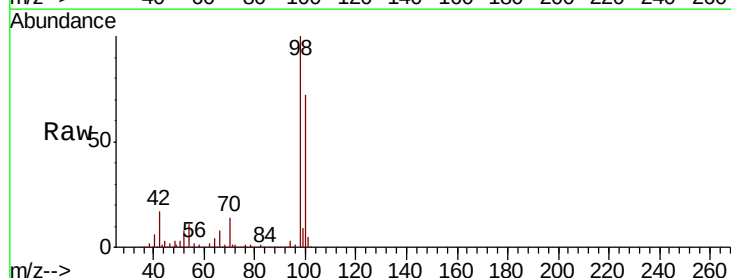
Instrument :
MSVOA_F
ClientSampled :

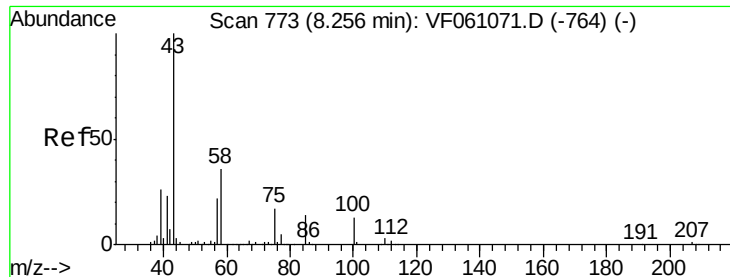
Tot Ion: 88 Resp: 3722
Ion Ratio Lower Upper
88 100
43 90.5 33.3 49.9#
58 59.2 53.2 79.8



#50
Toluene-d8
Concen: 48.173 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 98 Resp: 406489
Ion Ratio Lower Upper
98 100
100 71.5 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 103.784 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

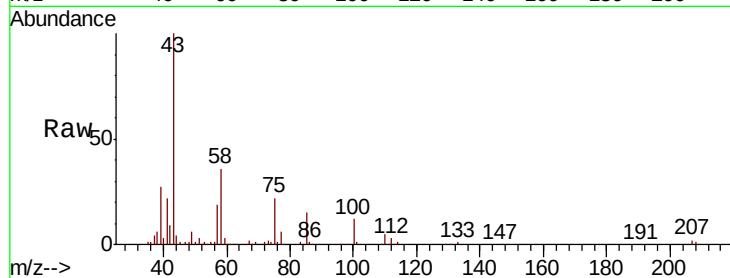
ClientSampleId :

Tot Ion: 43 Resp: 154200

Ion Ratio Lower Upper

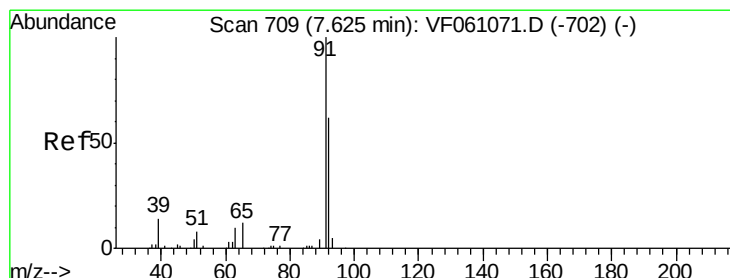
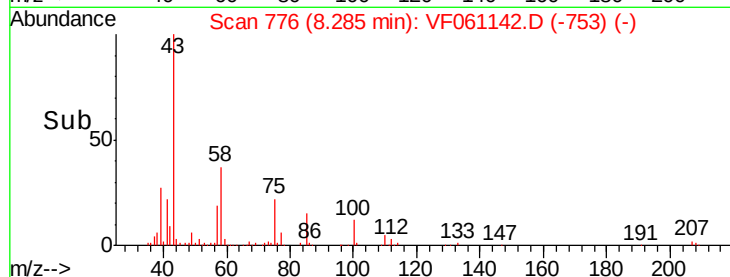
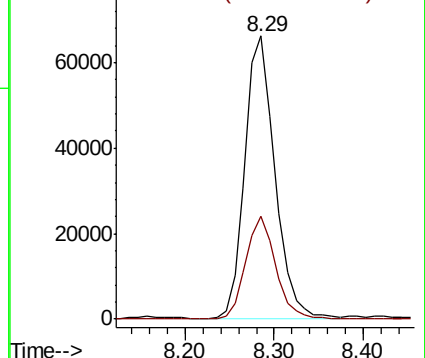
43 100

58 36.5 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.592 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF061142.D

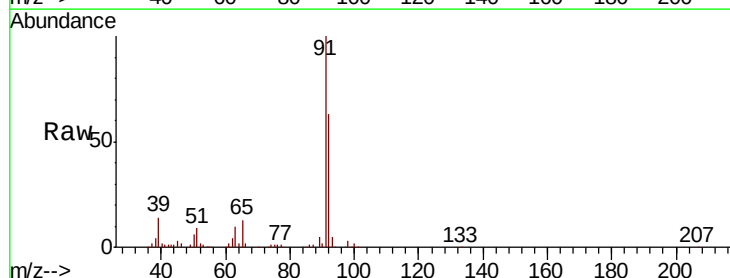
Acq: 22 Dec 2018 14:04

Tgt Ion: 92 Resp: 125136

Ion Ratio Lower Upper

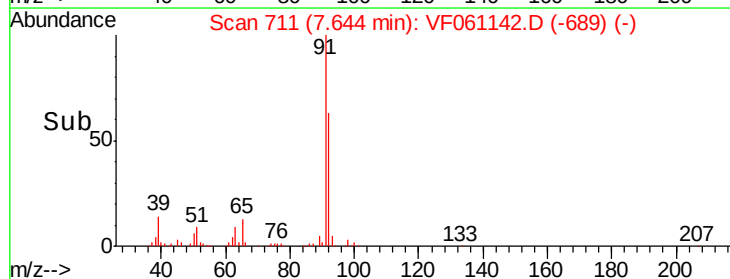
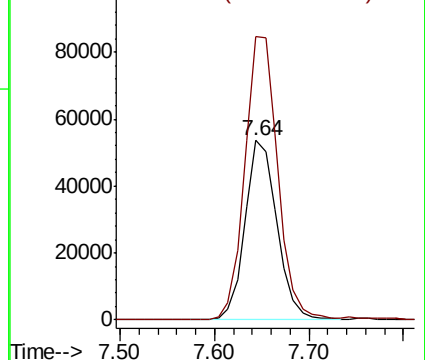
92 100

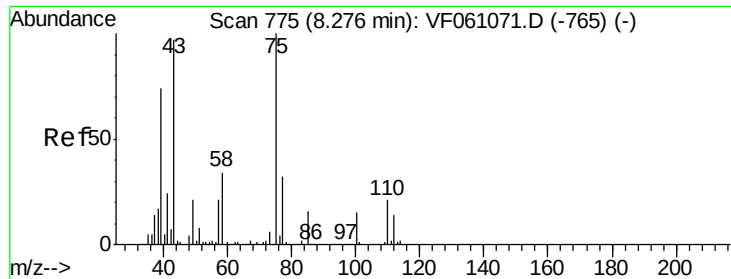
91 157.6 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 19.668 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

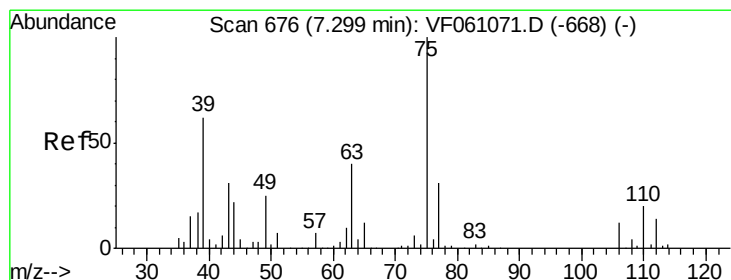
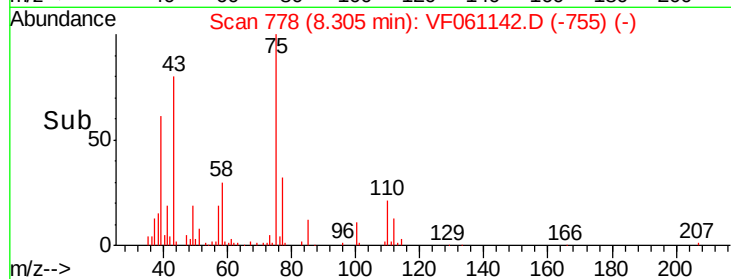
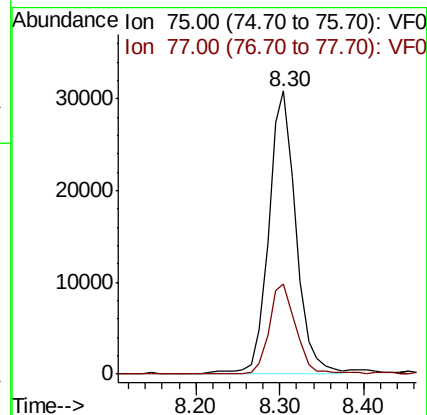
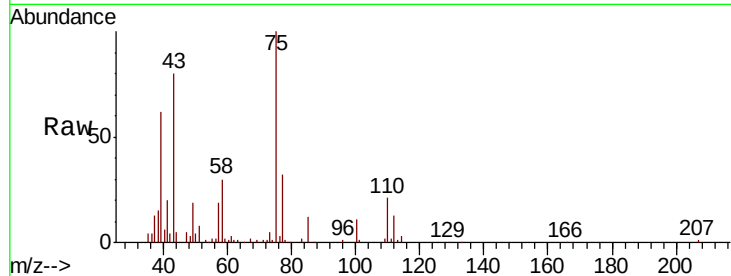
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 70191

Ion Ratio Lower Upper

75 100

77 31.7 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 20.140 ug/l

RT: 7.33 min Scan# 679

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

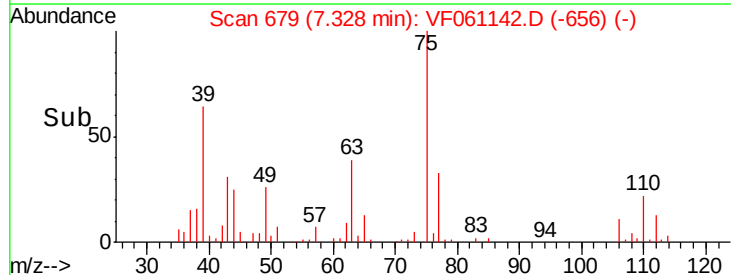
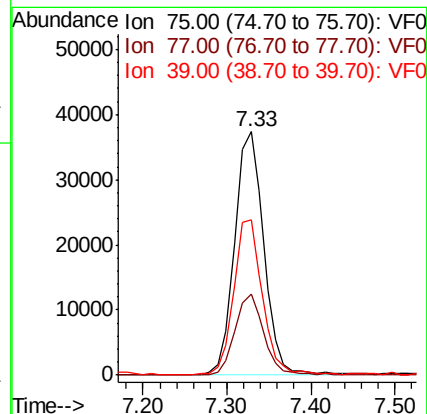
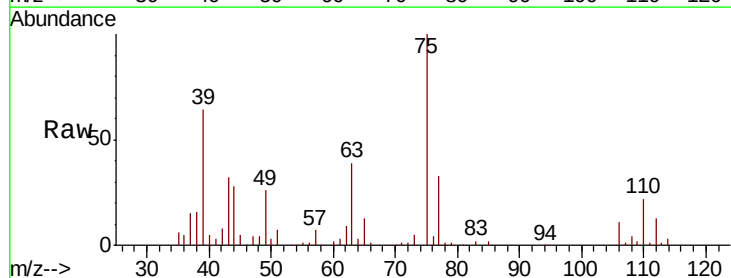
Tgt Ion: 75 Resp: 90207

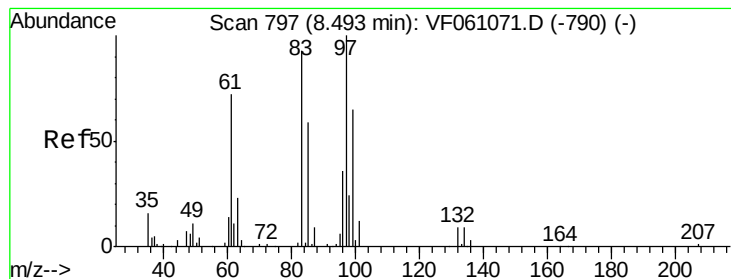
Ion Ratio Lower Upper

75 100

77 33.5 25.0 37.4

39 63.9 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 19.752 ug/l

RT: 8.51 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

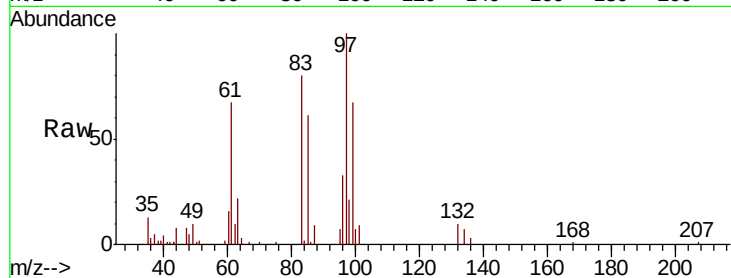
Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 97 Resp: 37819

Ion	Ratio	Lower	Upper
97	100		
83	80.4	75.0	112.4
85	61.2	47.5	71.3
99	67.2	51.9	77.9

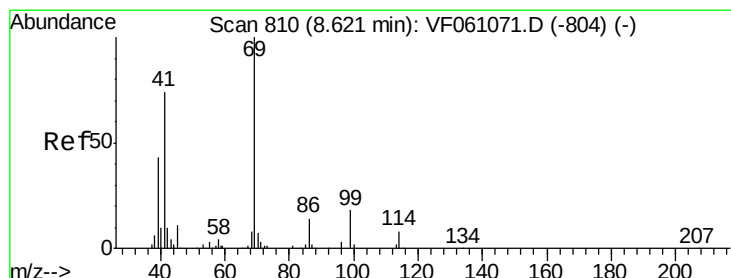
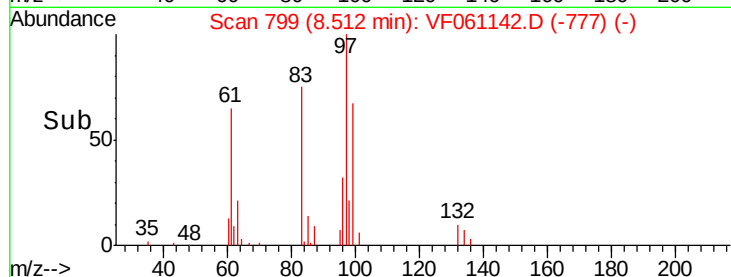


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 20.225 ug/l

RT: 8.64 min Scan# 812

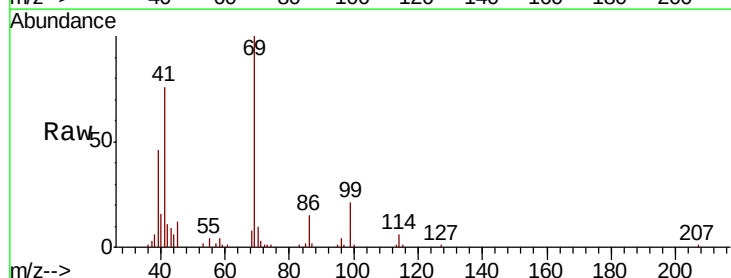
Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion: 69 Resp: 41903

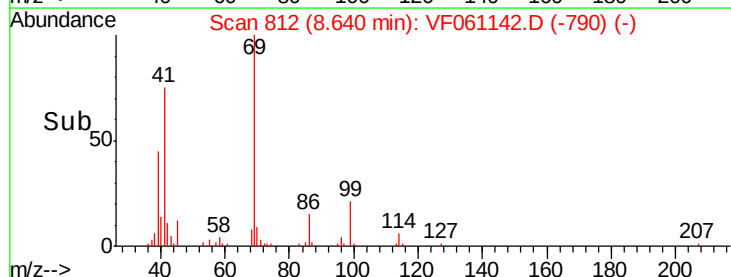
Ion	Ratio	Lower	Upper
69	100		
41	75.9	59.7	89.5
39	46.4	35.0	52.6

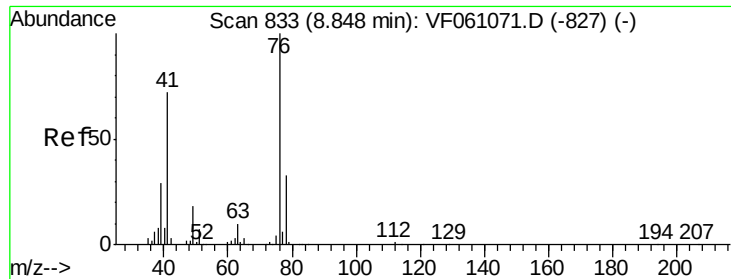


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 19.251 ug/l

RT: 8.88 min Scan# 836

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

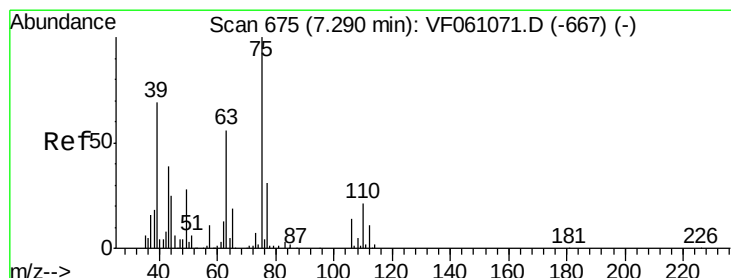
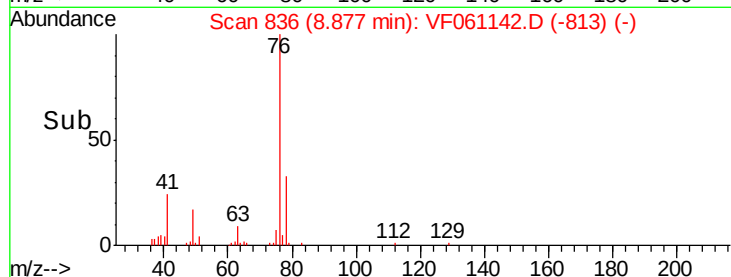
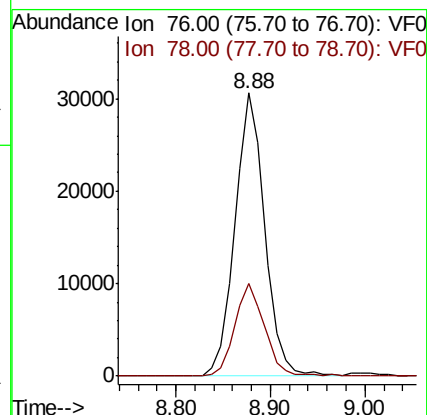
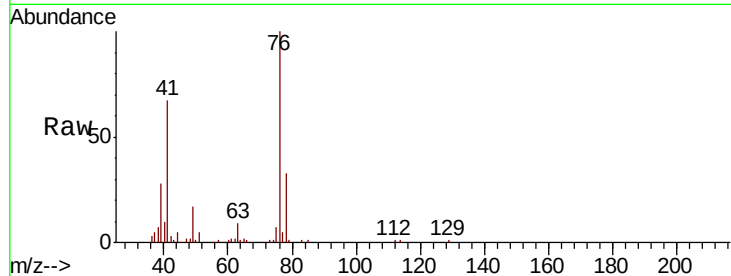
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 66666

Ion Ratio Lower Upper

76 100

78 32.7 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 107.773 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.03 min

Lab File: VF061142.D

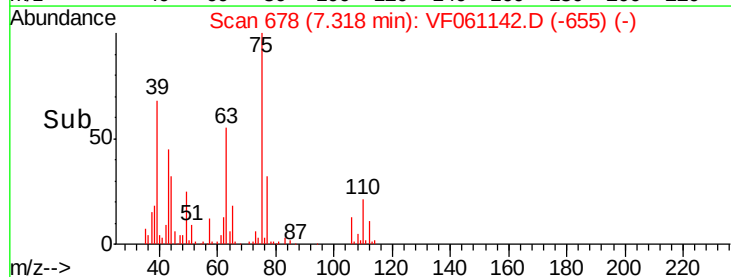
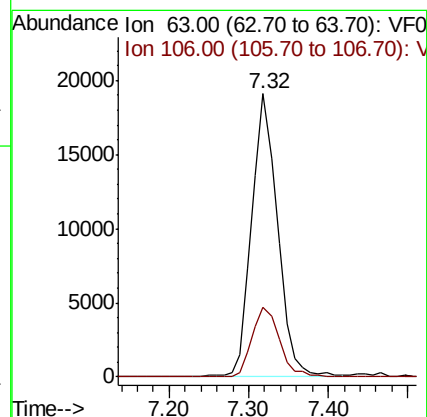
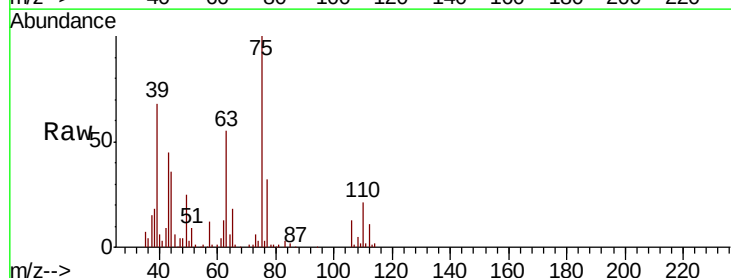
Acq: 22 Dec 2018 14:04

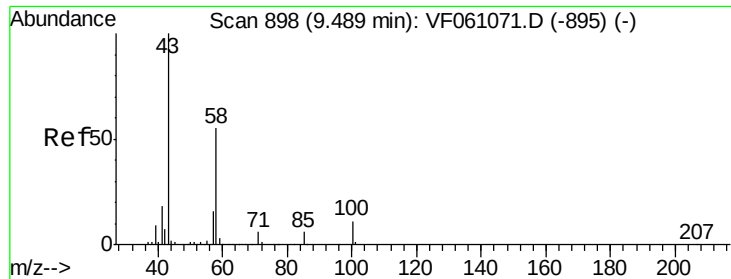
Tgt Ion: 63 Resp: 42885

Ion Ratio Lower Upper

63 100

106 24.4 19.8 29.8

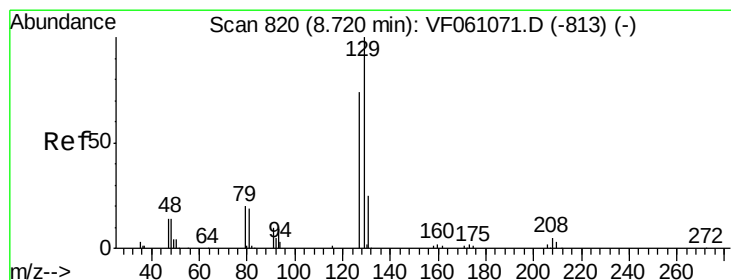
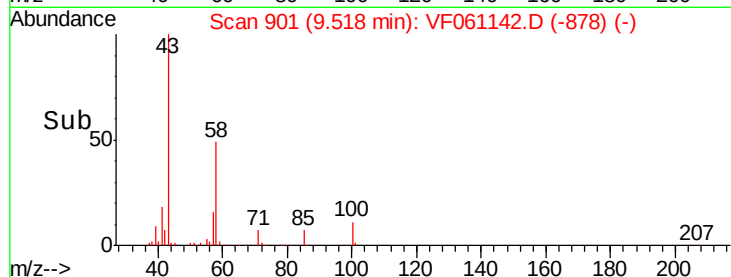
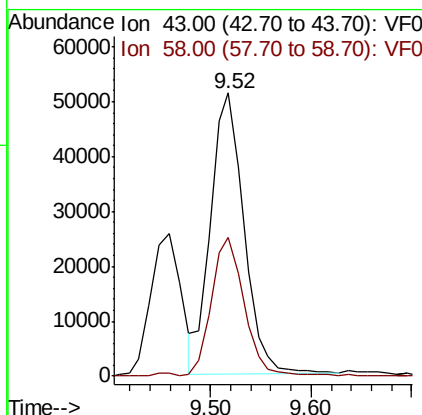
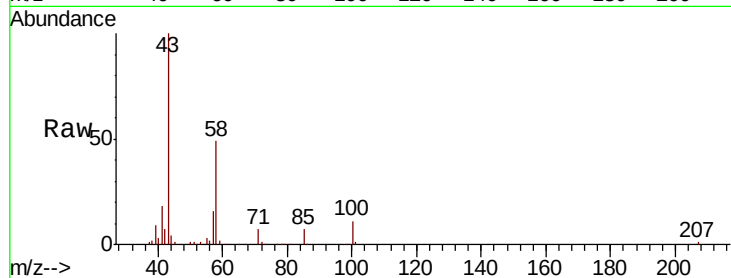




#59
2-Hexanone
Concen: 109.363 ug/l
RT: 9.52 min Scan# 901
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

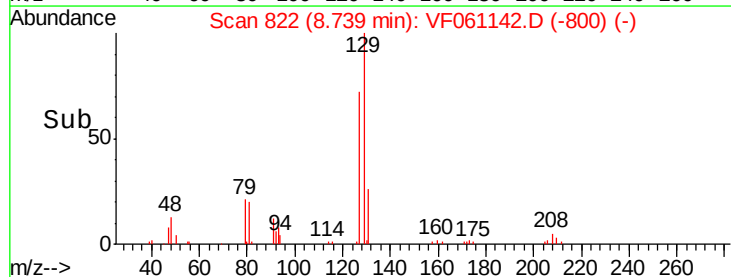
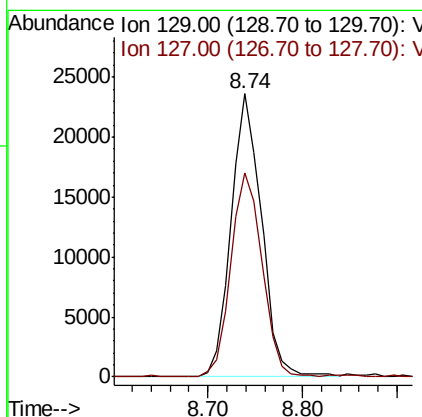
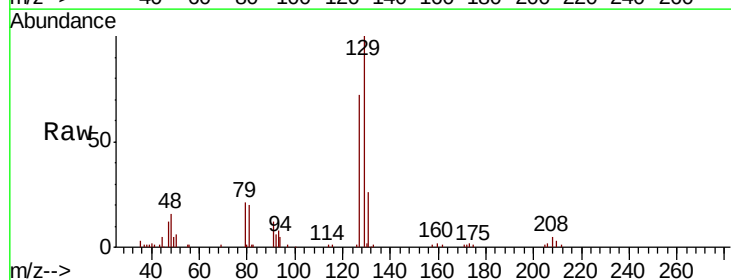
Instrument :
MSVOA_F
ClientSampleId :

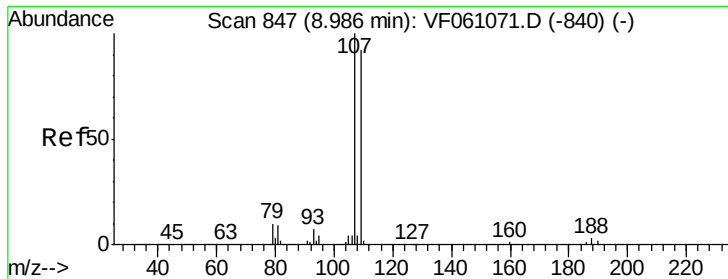
Tot Ion: 43 Resp: 117509
Ion Ratio Lower Upper
43 100
58 49.1 25.1 75.2



#60
Dibromochloromethane
Concen: 19.155 ug/l
RT: 8.74 min Scan# 822
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion:129 Resp: 52574
Ion Ratio Lower Upper
129 100
127 72.1 36.8 110.3





#61

1,2-Dibromoethane

Concen: 19.527 ug/l

RT: 9.02 min Scan# 850

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

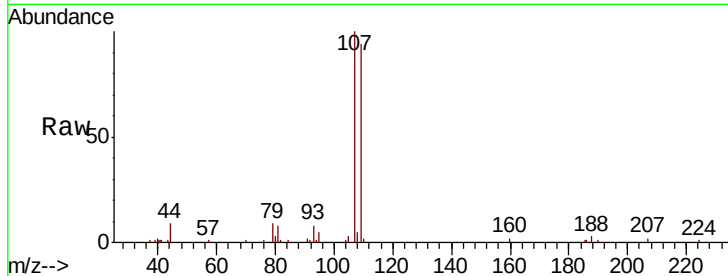
ClientSampleId :

Tot Ion:107 Resp: 39930

Ion Ratio Lower Upper

107 100

109 93.8 73.7 110.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

20000

15000

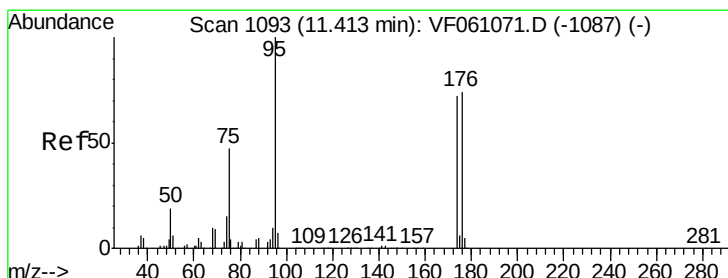
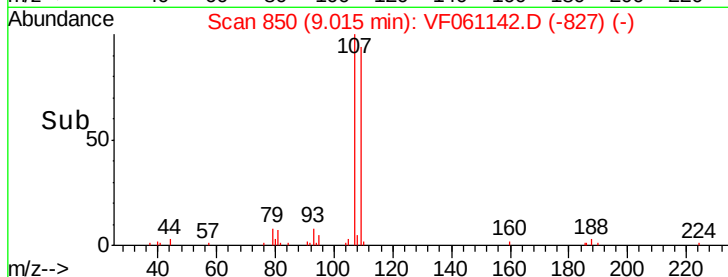
10000

5000

0

8.90 9.00 9.10 9.20

Time-->



#62

4-Bromofluorobenzene

Concen: 50.372 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

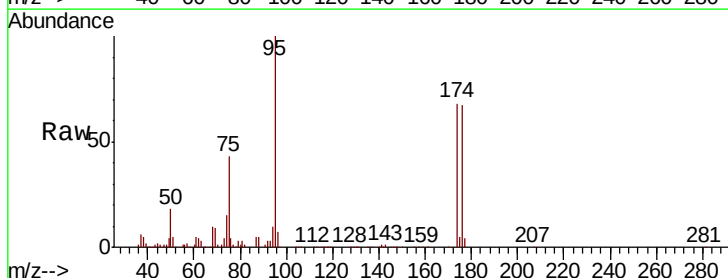
Tgt Ion: 95 Resp: 195951

Ion Ratio Lower Upper

95 100

174 68.2 0.0 143.8

176 66.9 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

150000

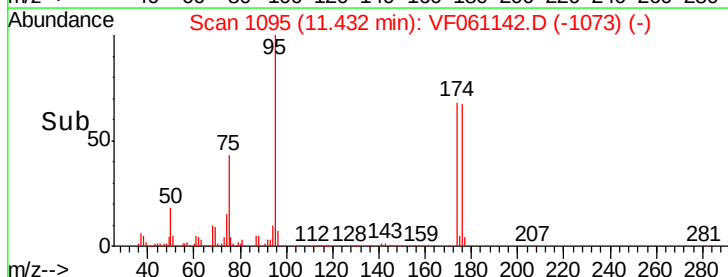
100000

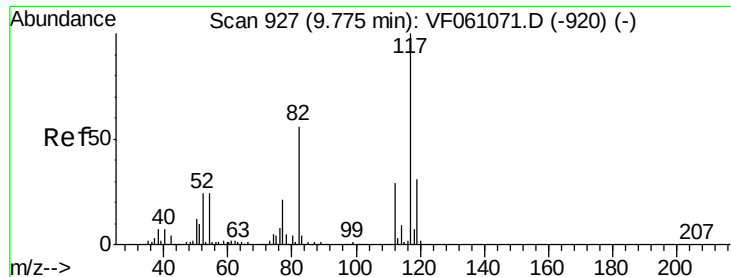
50000

0

11.40 11.60

Time-->

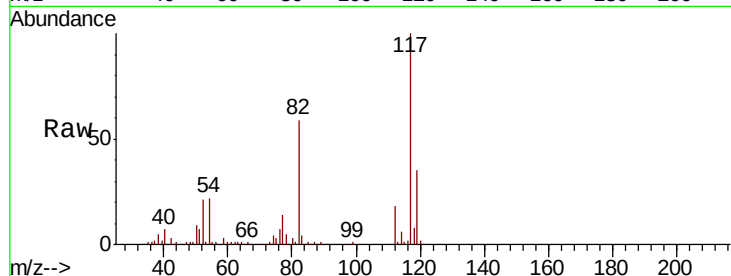




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	45.0	67.4
119	34.7	24.8	37.2

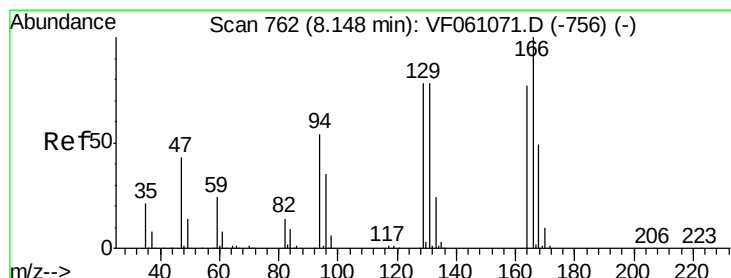
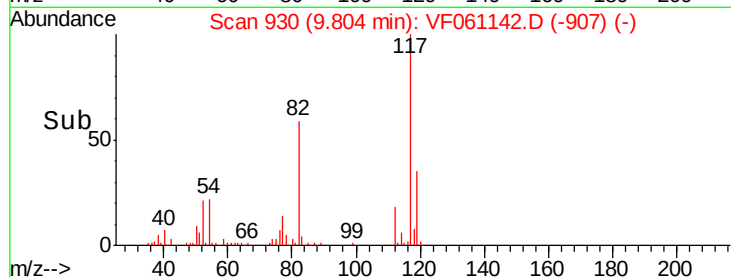
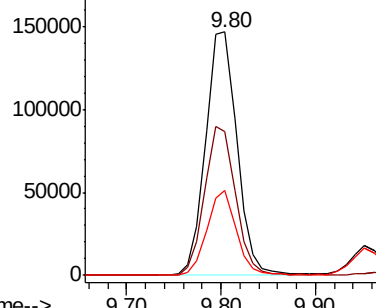


Abundance

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



#64
Tetrachloroethene
Concen: 19.011 ug/l
RT: 8.18 min Scan# 765
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.3	104.0	156.0
129	102.4	81.1	121.7
131	94.5	81.2	121.8

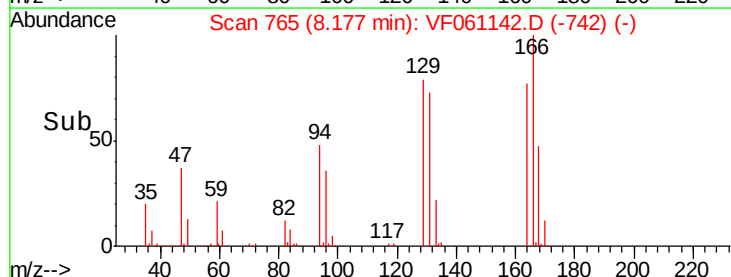
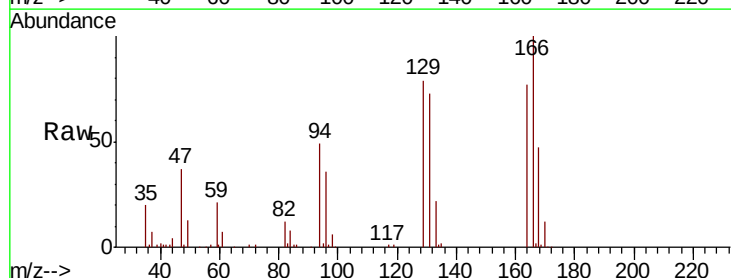
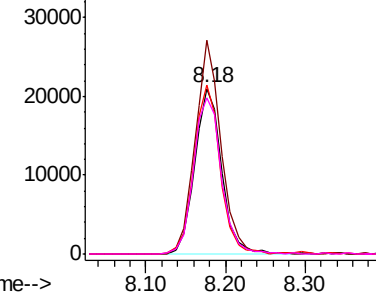
Abundance

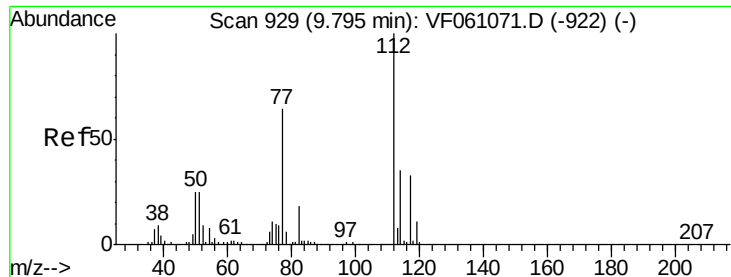
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

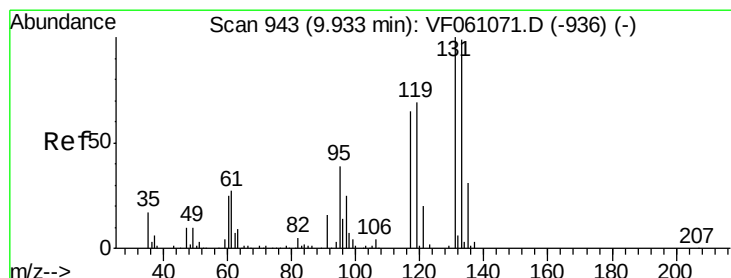
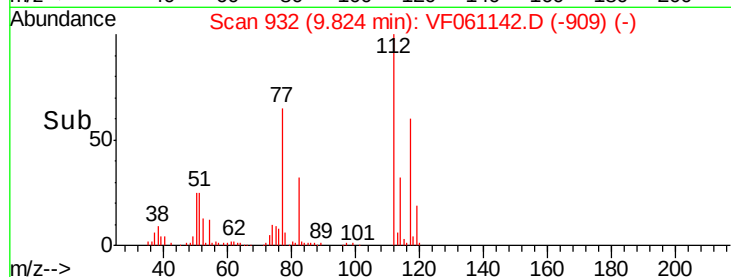
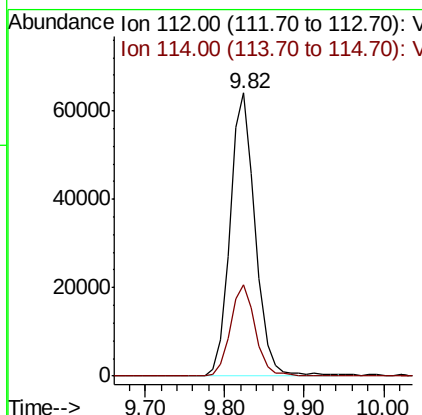
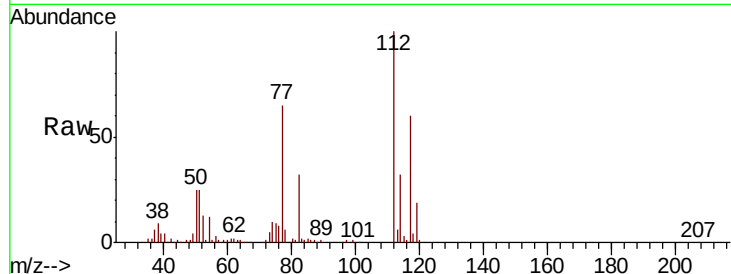




#65
Chlorobenzene
Concen: 20.127 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

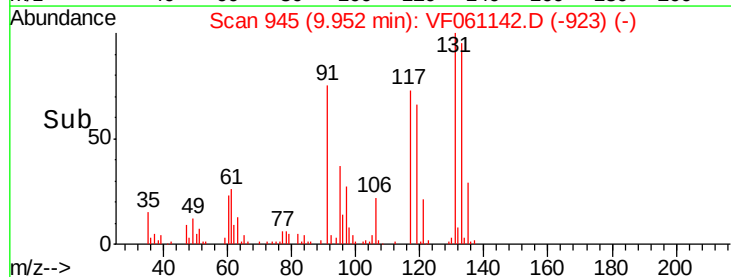
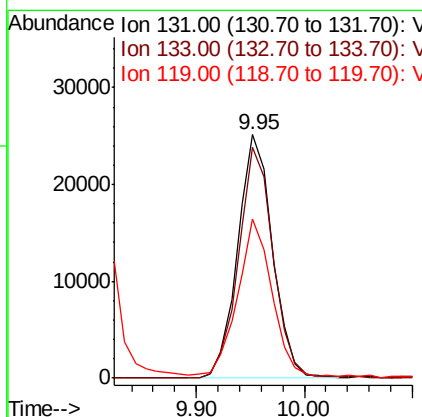
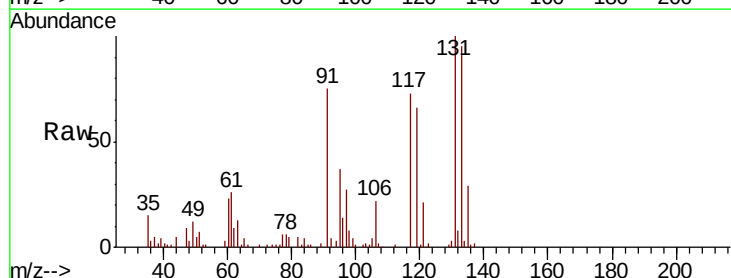
Instrument :
MSVOA_F
ClientSampleId :

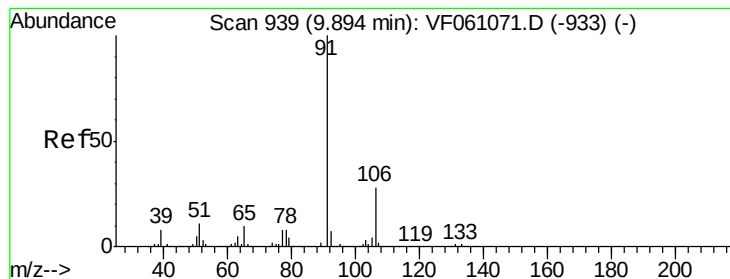
Tot Ion:112 Resp: 141364
Ion Ratio Lower Upper
112 100
114 32.1 27.8 41.6



#66
1,1,1,2-Tetrachloroethane
Concen: 19.623 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion:131 Resp: 56325
Ion Ratio Lower Upper
131 100
133 94.9 49.5 148.7
119 65.6 34.5 103.5





#67

Ethyl Benzene

Concen: 20.575 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

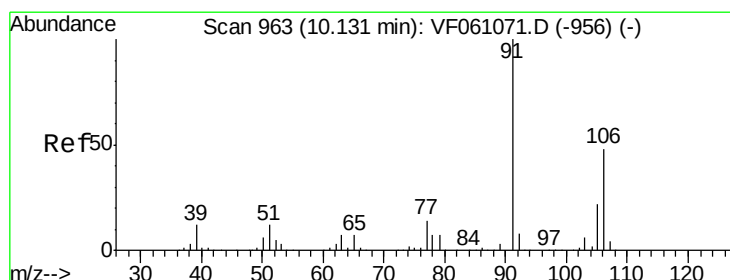
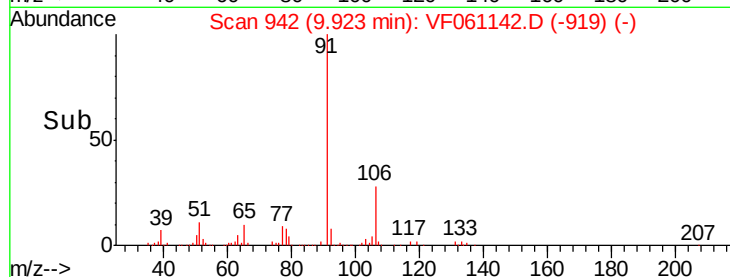
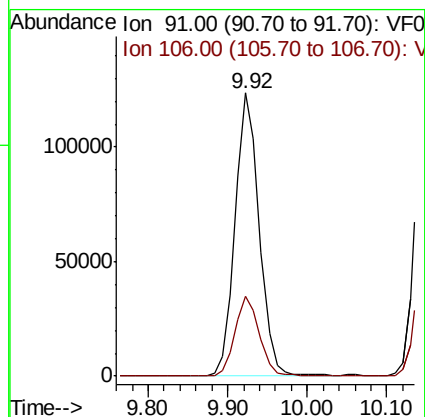
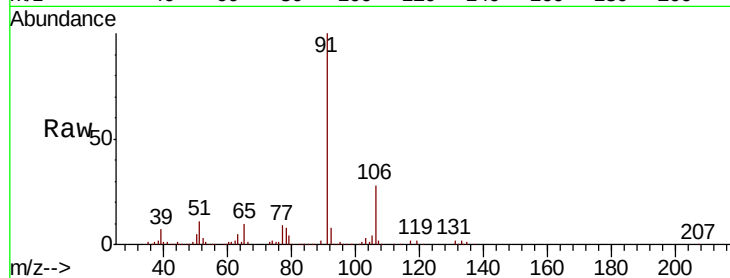
ClientSampled :

Tot Ion: 91 Resp: 263282

Ion Ratio Lower Upper

91 100

106 28.1 22.5 33.7



#68

m/p-Xylenes

Concen: 42.283 ug/l

RT: 10.16 min Scan# 966

Delta R.T. 0.03 min

Lab File: VF061142.D

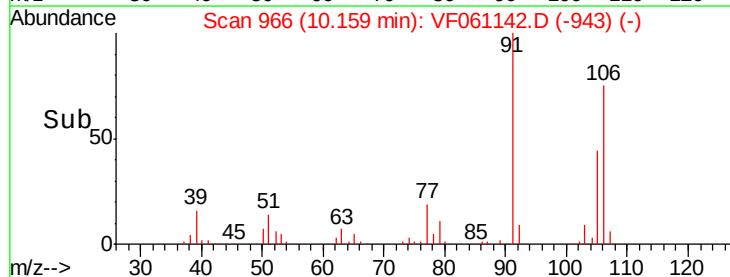
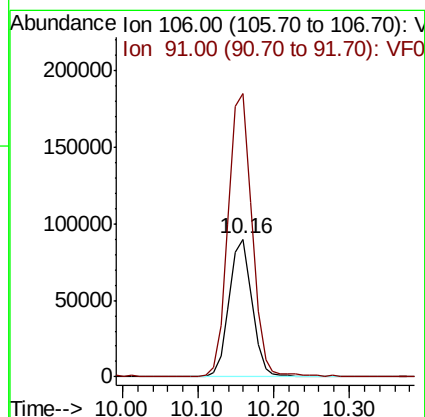
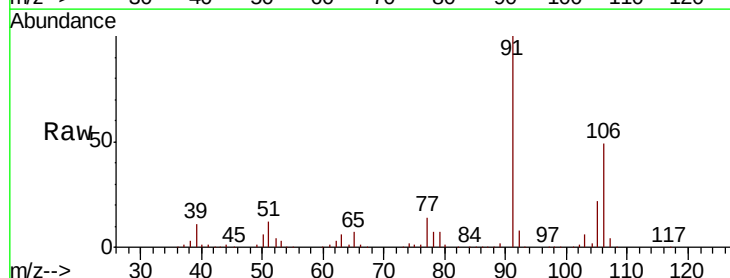
Acq: 22 Dec 2018 14:04

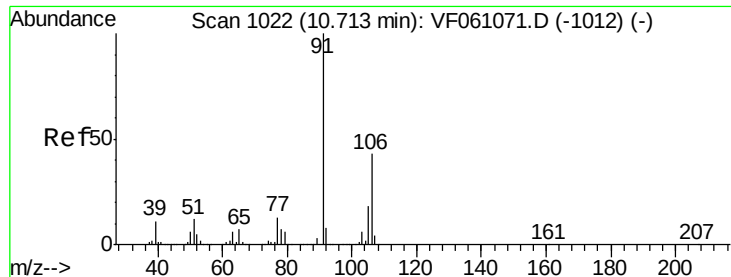
Tgt Ion:106 Resp: 190409

Ion Ratio Lower Upper

106 100

91 205.8 168.2 252.2

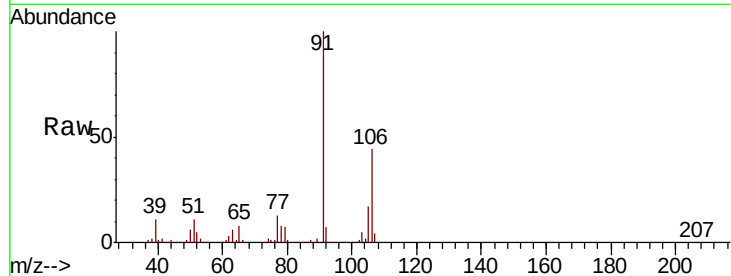




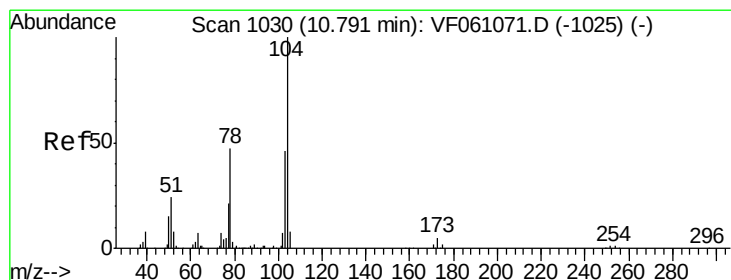
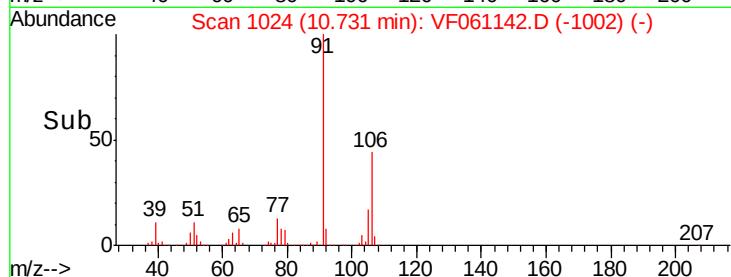
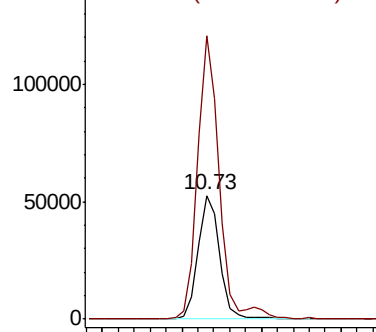
#69
o-Xylene
Concen: 20.307 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:106 Resp: 101422
Ion Ratio Lower Upper
106 100
91 228.9 115.9 347.7

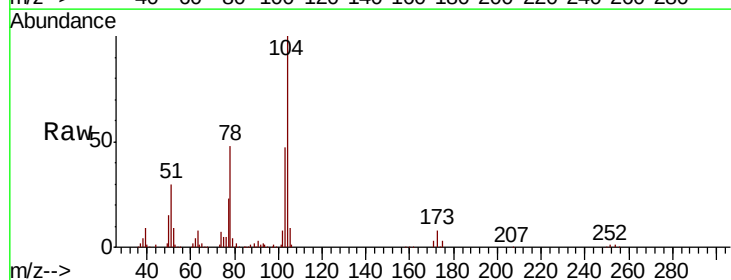


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

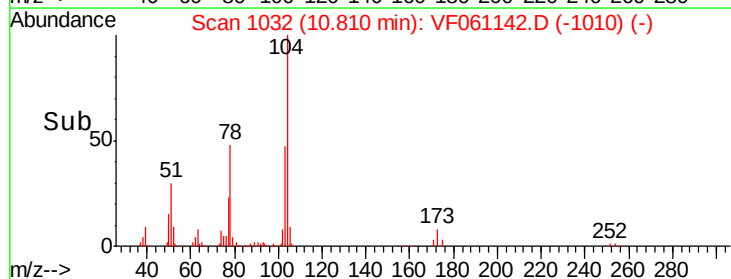
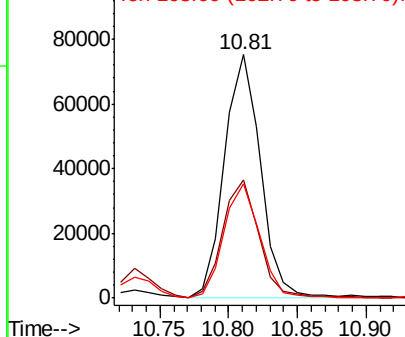


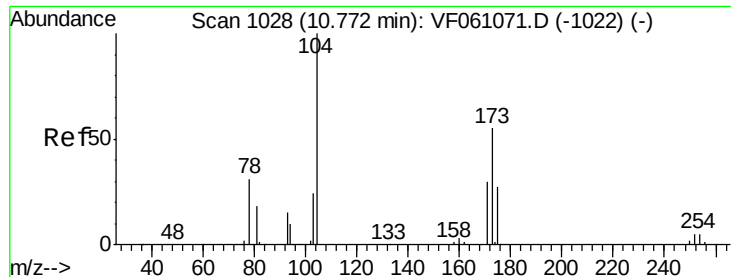
#70
Styrene
Concen: 19.251 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion:104 Resp: 135438
Ion Ratio Lower Upper
104 100
78 48.4 38.4 57.6
103 47.1 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





#71

Bromoform

Concen: 19.750 ug/l

RT: 10.79 min Scan# 1030

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

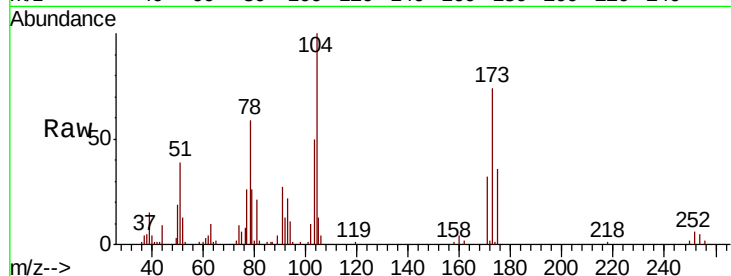
Tot Ion:173 Resp: 26227

Ion Ratio Lower Upper

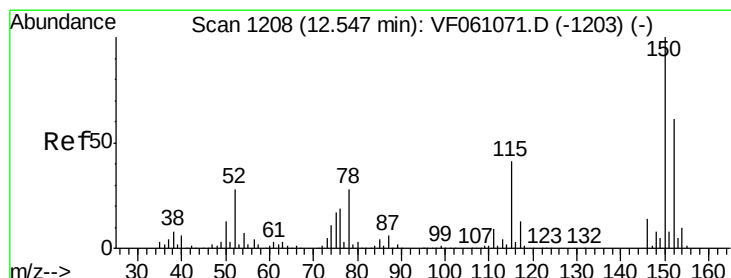
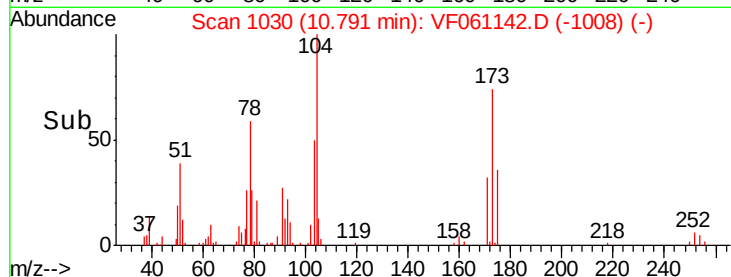
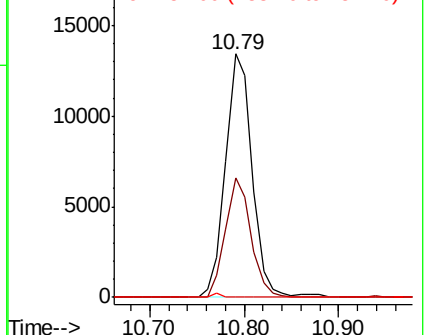
173 100

175 49.3 24.8 74.4

254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

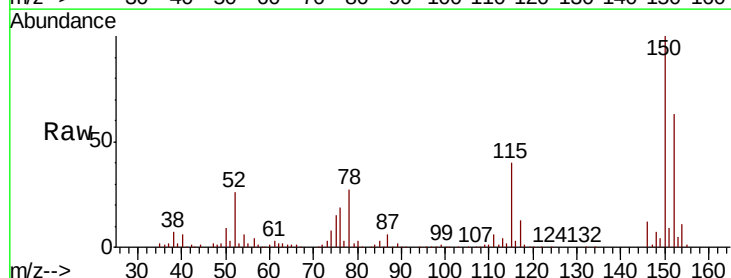
Tgt Ion:152 Resp: 166429

Ion Ratio Lower Upper

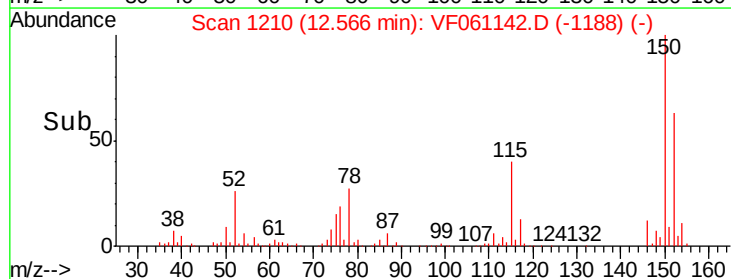
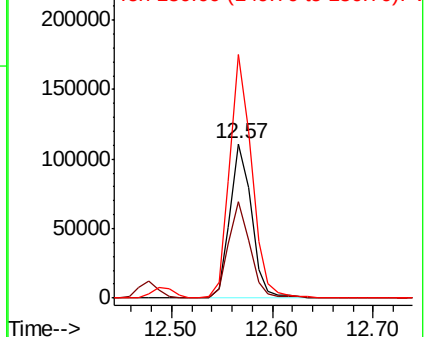
152 100

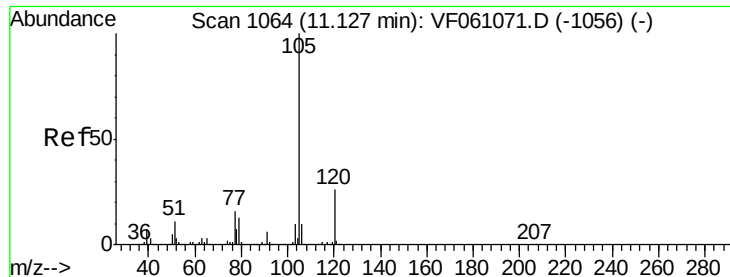
115 62.8 33.3 99.9

150 157.7 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





#73

Isopropylbenzene

Concen: 21.403 ug/l

RT: 11.15 min Scan# 1066

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

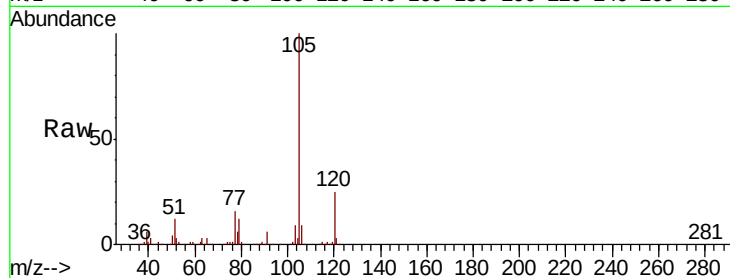
ClientSampleId :

Tot Ion:105 Resp: 306967

Ion Ratio Lower Upper

105 100

120 24.6 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

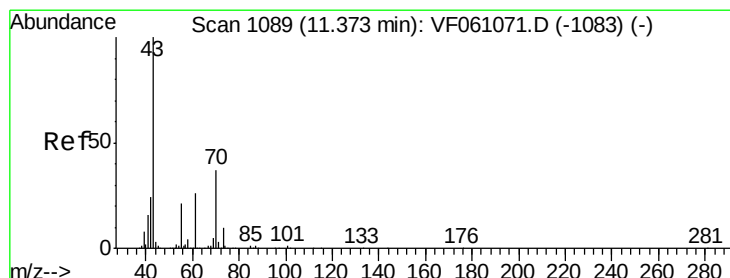
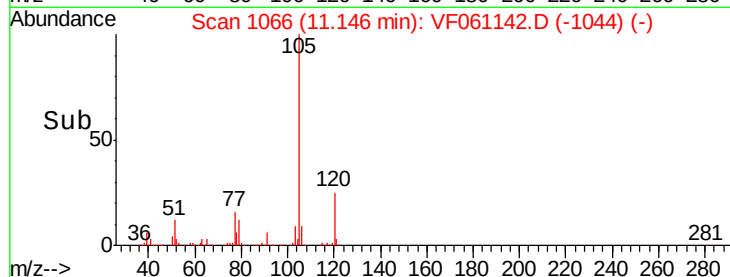
50000

0

11.15

11.10 11.20 11.30

Time-->



#74

N-ethyl acetate

Concen: 22.581 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion: 43 Resp: 71902

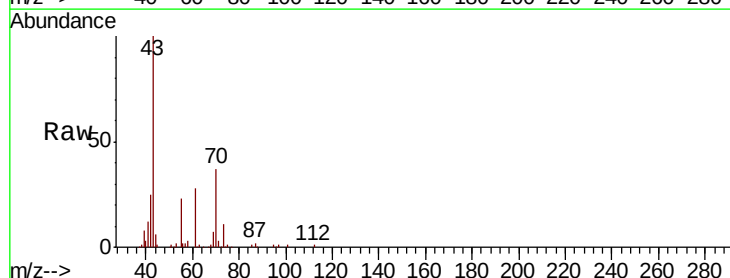
Ion Ratio Lower Upper

43 100

70 36.9 29.2 43.8

55 23.2 16.5 24.7

61 27.7 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

60000

50000

40000

30000

20000

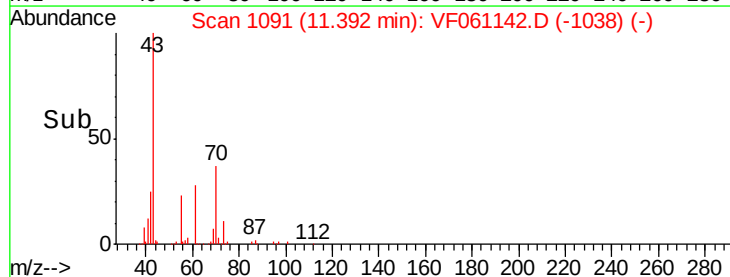
10000

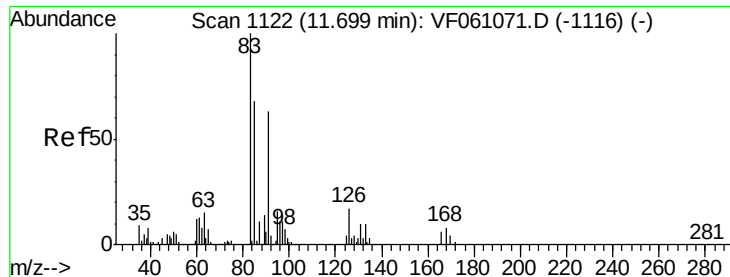
0

11.39

11.30 11.40 11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.220 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

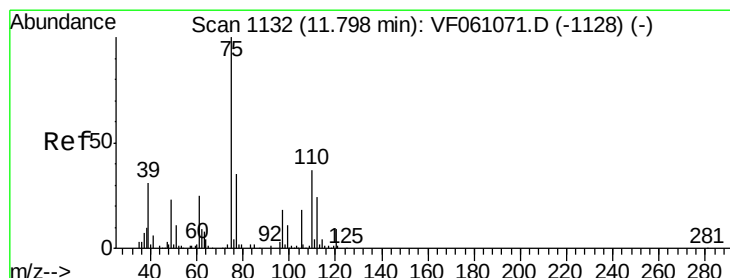
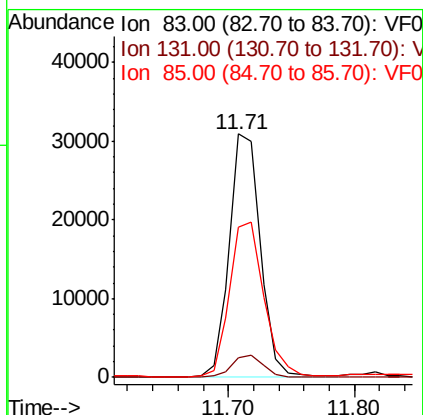
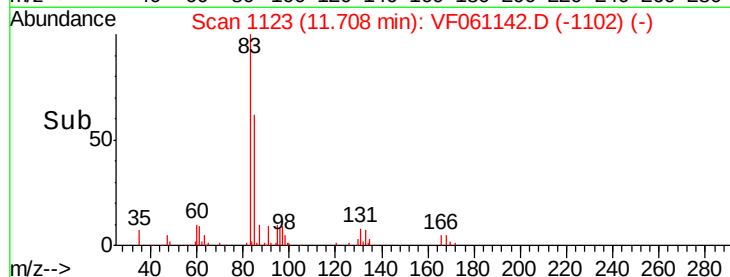
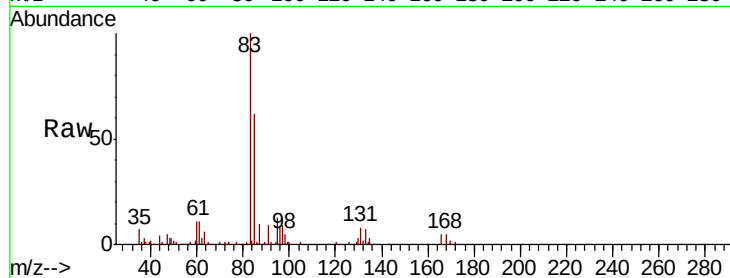
Tot Ion: 83 Resp: 52890

Ion Ratio Lower Upper

83 100

131 8.2 4.8 14.3

85 61.6 33.9 101.6



#76

1,2,3-Trichloropropane

Concen: 20.821 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. 0.02 min

Lab File: VF061142.D

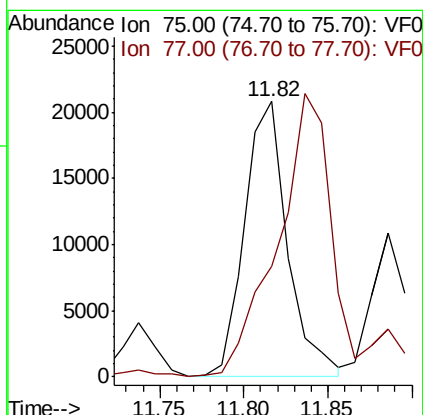
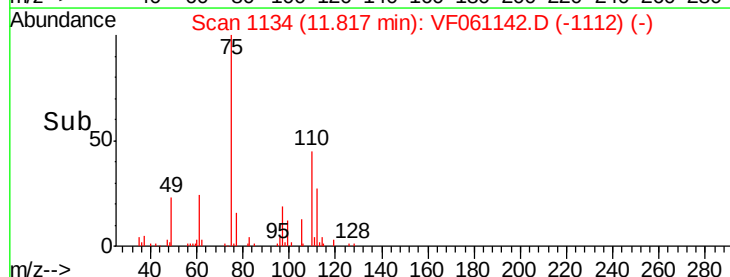
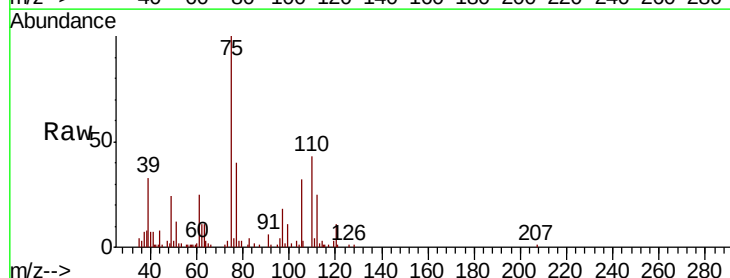
Acq: 22 Dec 2018 14:04

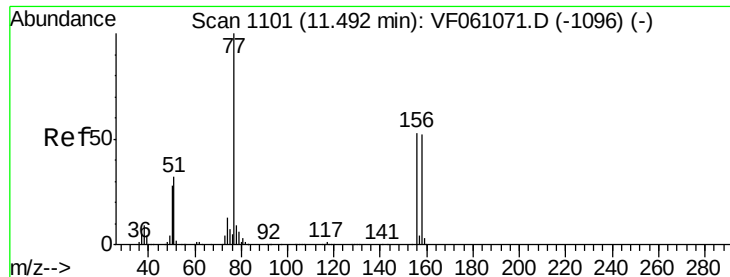
Tgt Ion: 75 Resp: 36883

Ion Ratio Lower Upper

75 100

77 40.0 17.6 52.9





#77

Bromobenzene

Concen: 19.419 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

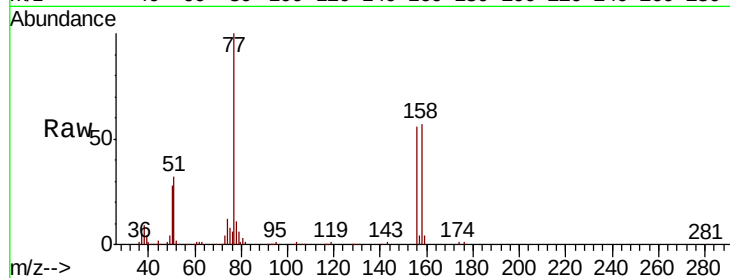
Tot Ion:156 Resp: 59953

Ion Ratio Lower Upper

156 100

77 177.3 93.8 281.4

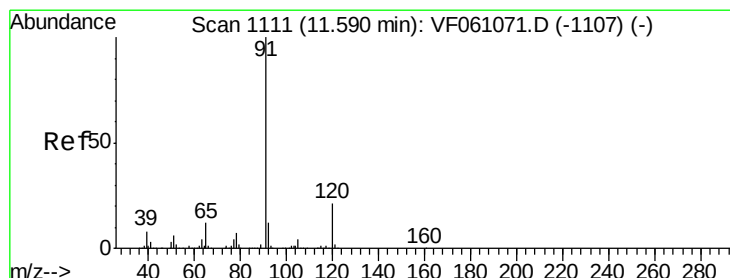
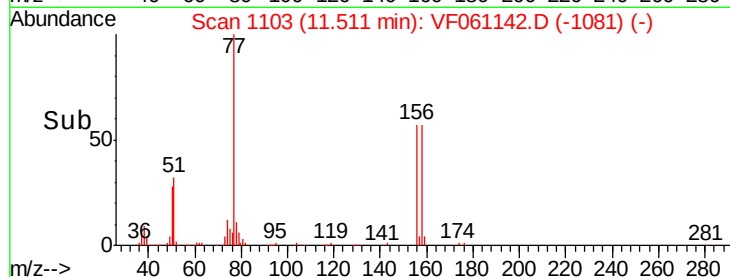
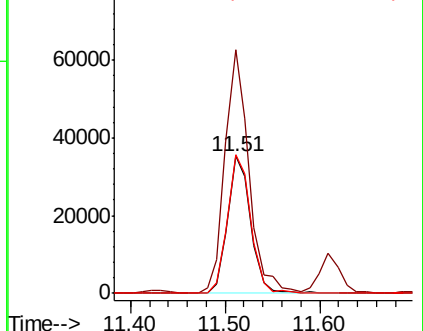
158 100.7 48.9 146.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 19.556 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF061142.D

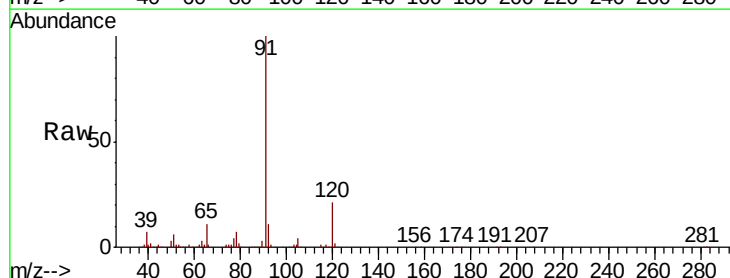
Acq: 22 Dec 2018 14:04

Tgt Ion: 91 Resp: 364865

Ion Ratio Lower Upper

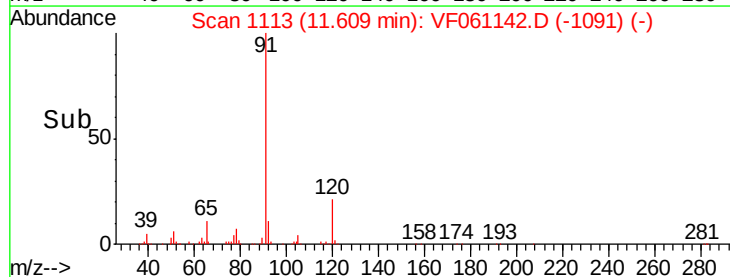
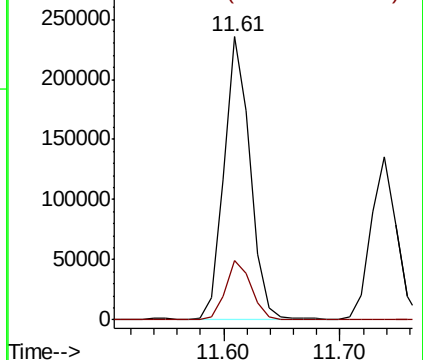
91 100

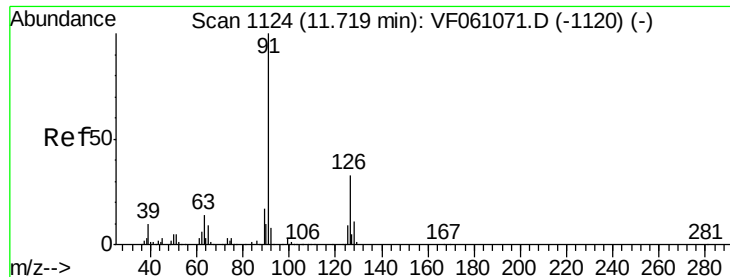
120 20.9 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

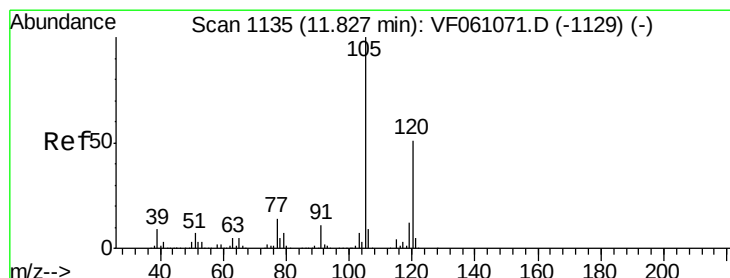
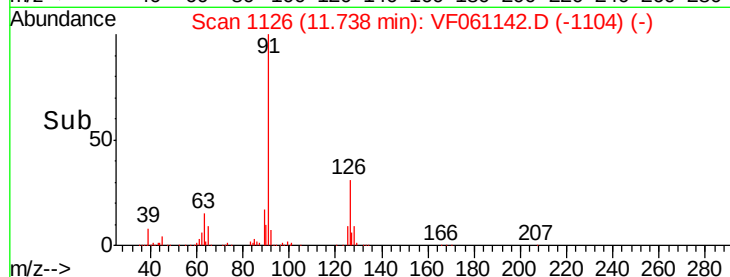
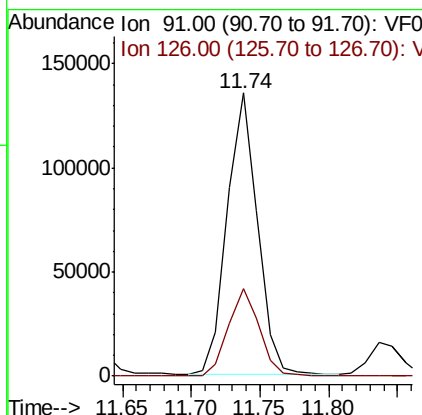
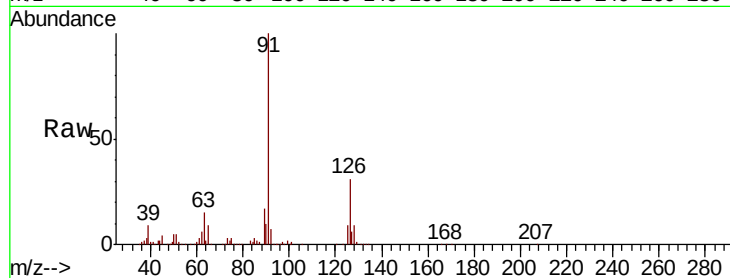




#79
 2-Chlorotoluene
 Concen: 21.089 ug/l
 RT: 11.74 min Scan# 1126
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

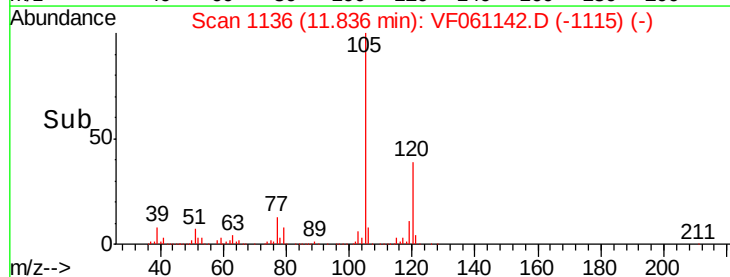
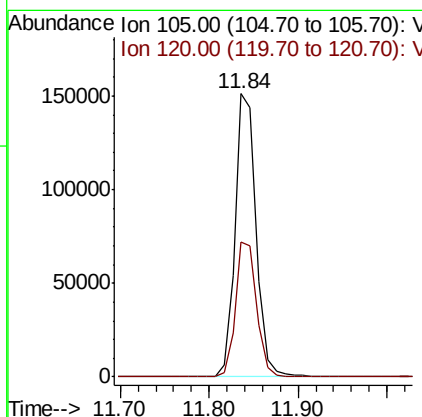
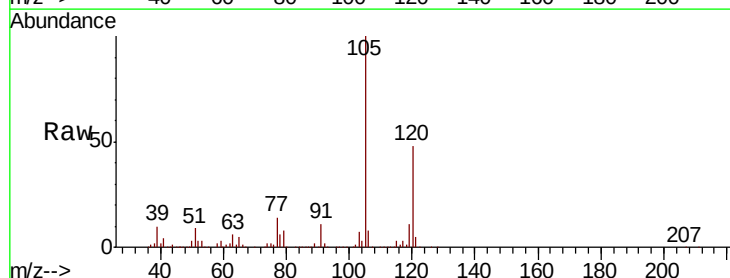
Instrument :
 MSVOA_F
 ClientSampled :

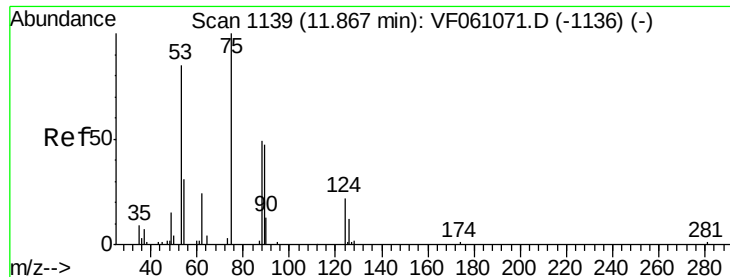
Tot Ion: 91 Resp: 207490
 Ion Ratio Lower Upper
 91 100
 126 30.9 16.4 49.1



#80
 1,3,5-Trimethylbenzene
 Concen: 21.228 ug/l
 RT: 11.84 min Scan# 1136
 Delta R.T. 0.01 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion: 105 Resp: 250692
 Ion Ratio Lower Upper
 105 100
 120 47.6 25.4 76.4

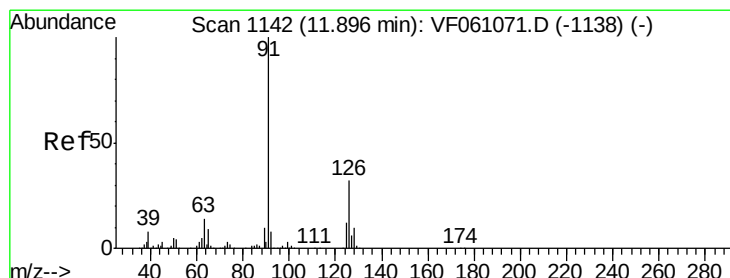
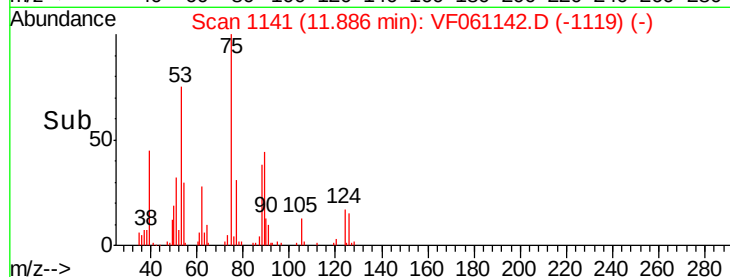
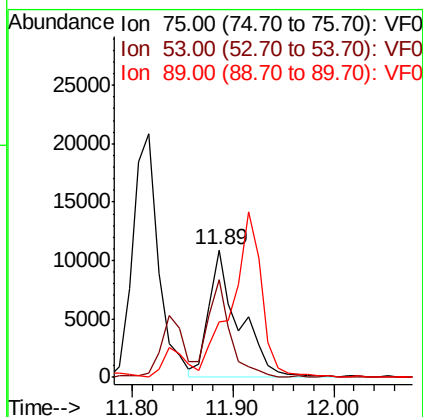
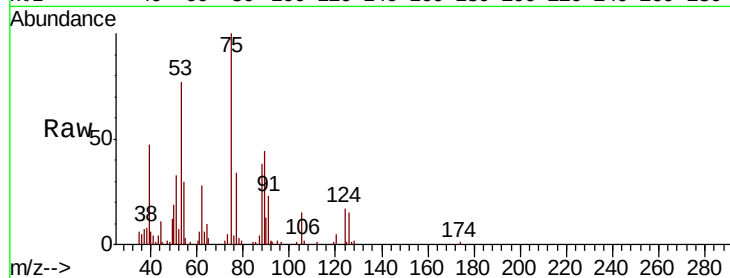




#81
trans-1,4-Dichloro-2-butene
Concen: 30.168 ug/l
RT: 11.89 min Scan# 1141
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

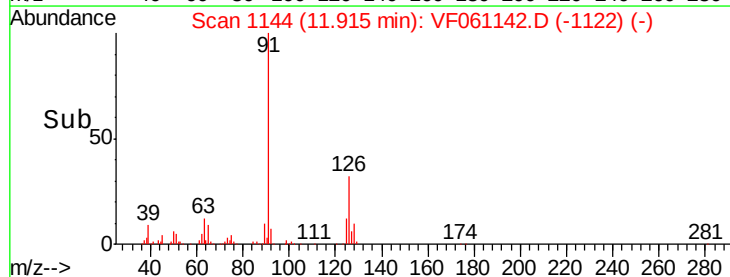
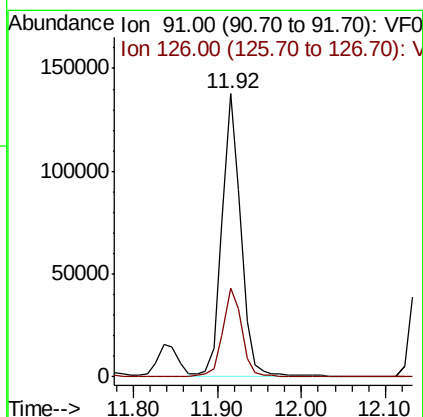
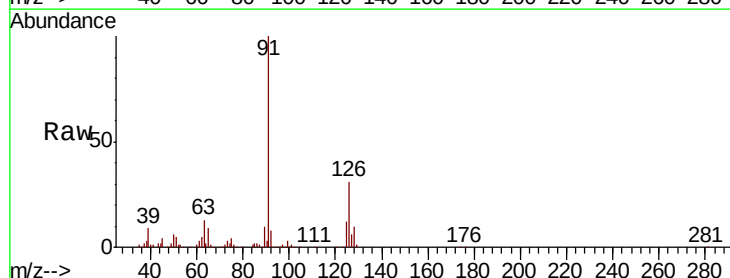
Instrument :
MSVOA_F
ClientSampleId :

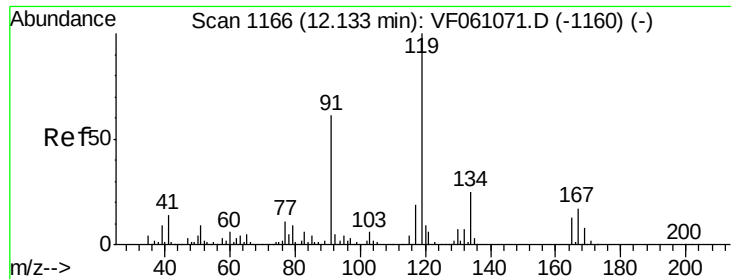
Tot Ion: 75 Resp: 22964
Ion Ratio Lower Upper
75 100
53 76.6 74.1 111.1
89 43.8 42.6 64.0



#82
4-Chlorotoluene
Concen: 20.843 ug/l
RT: 11.92 min Scan# 1144
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 91 Resp: 212133
Ion Ratio Lower Upper
91 100
126 31.4 16.0 47.9

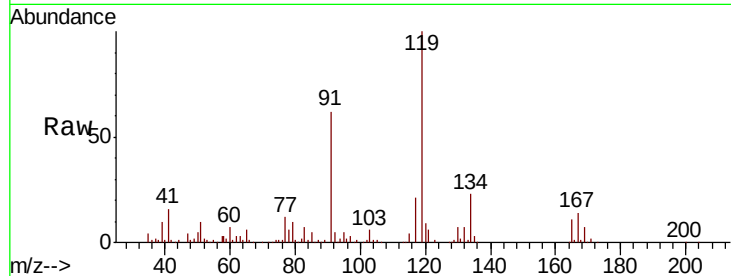




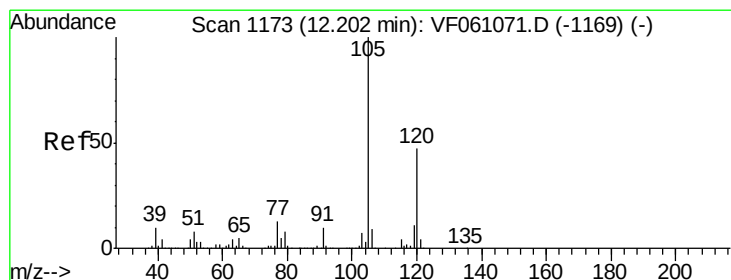
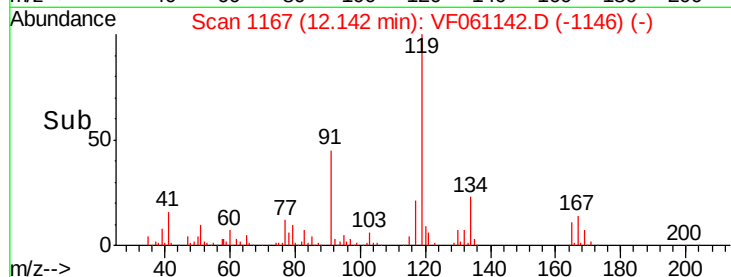
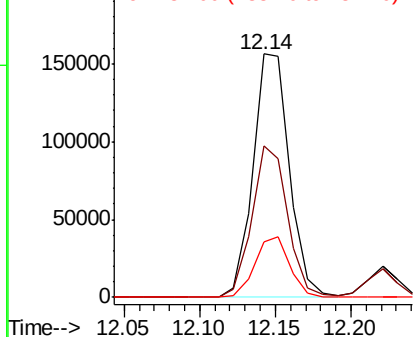
#83
tert-Butylbenzene
Concen: 21.704 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. 0.01 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.5	91.5
134	22.8	12.4	37.4

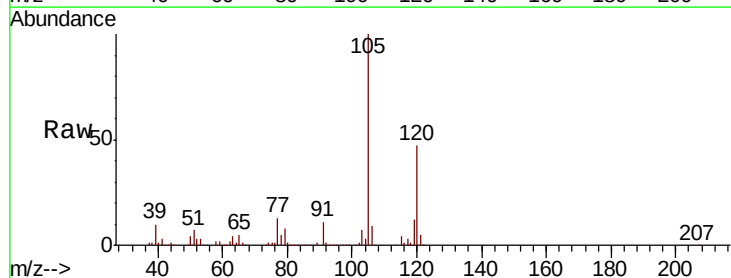


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

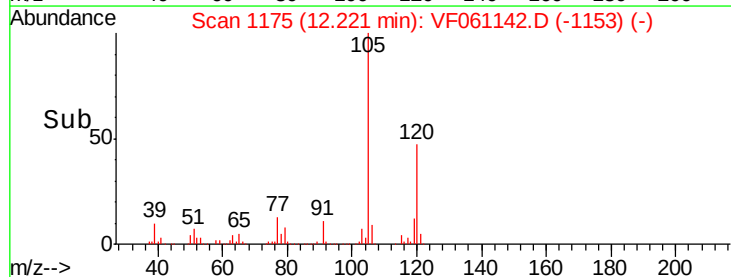
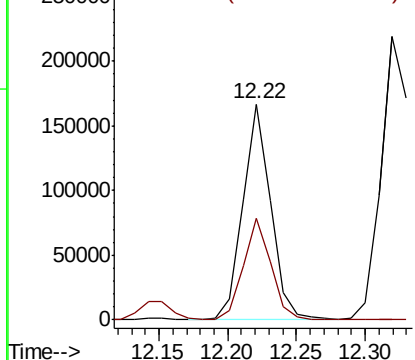


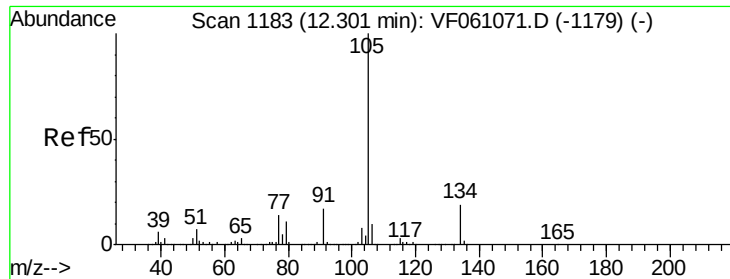
#84
1,2,4-Trimethylbenzene
Concen: 19.988 ug/l
RT: 12.22 min Scan# 1175
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	71.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

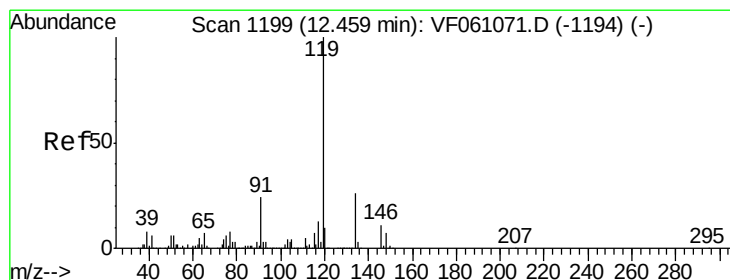
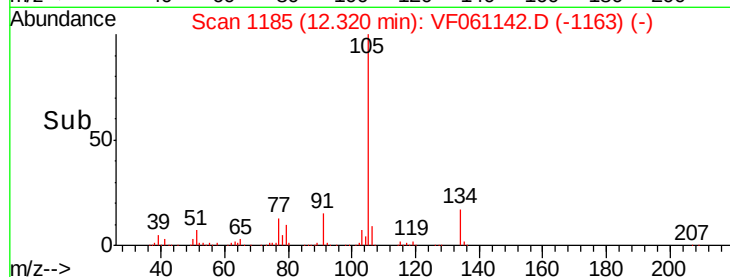
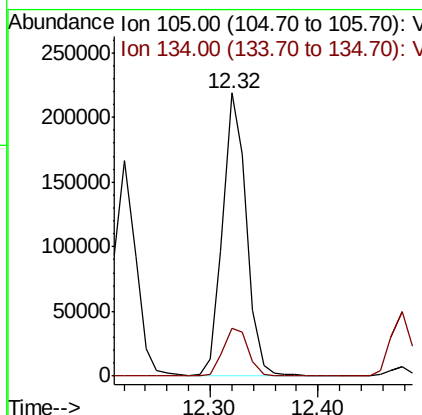
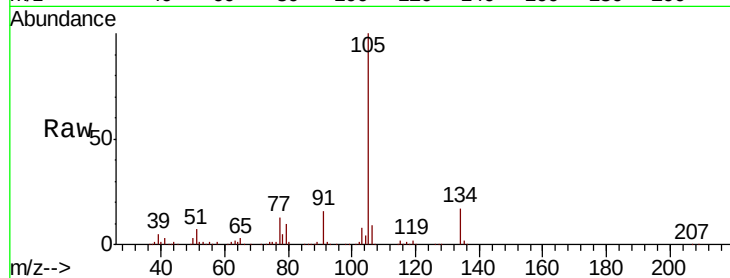




#85
 sec-Butylbenzene
 Concen: 21.072 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

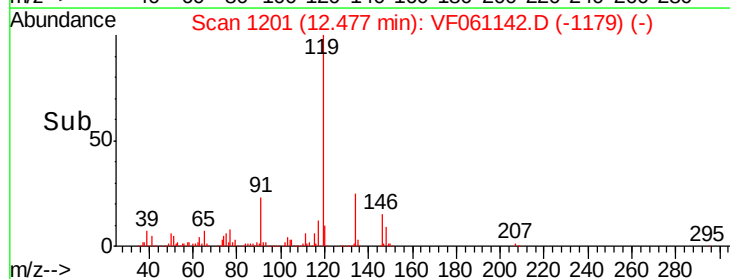
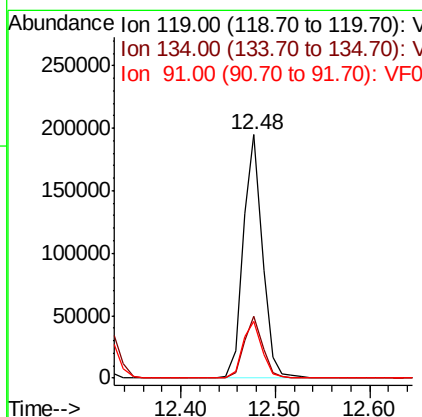
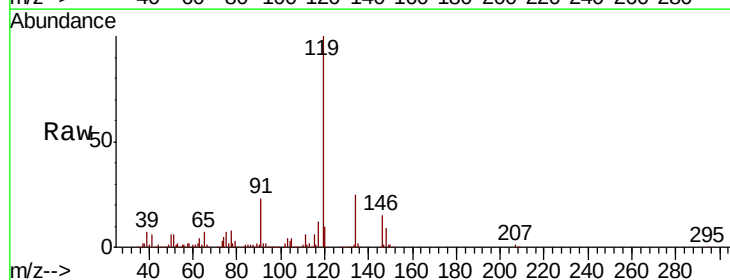
Instrument :
 MSVOA_F
 ClientSampleId :

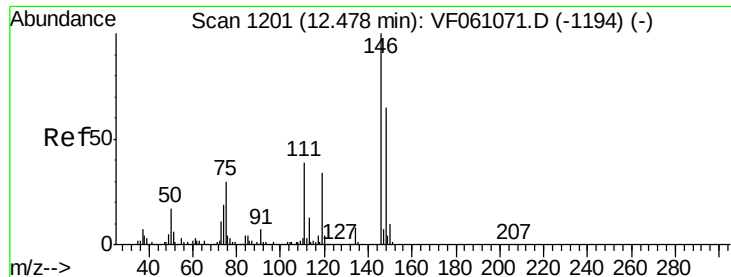
Tot Ion:105 Resp: 334173
 Ion Ratio Lower Upper
 105 100
 134 17.1 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 20.776 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion:119 Resp: 273494
 Ion Ratio Lower Upper
 119 100
 134 25.3 12.8 38.4
 91 23.4 12.2 36.6

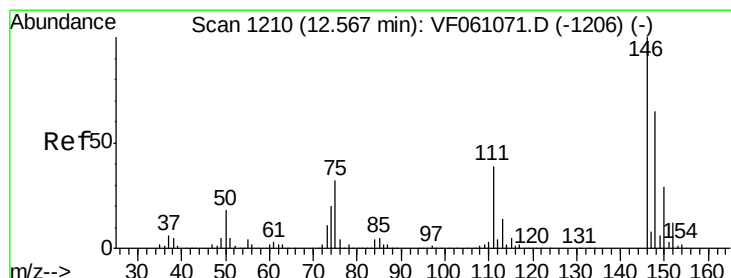
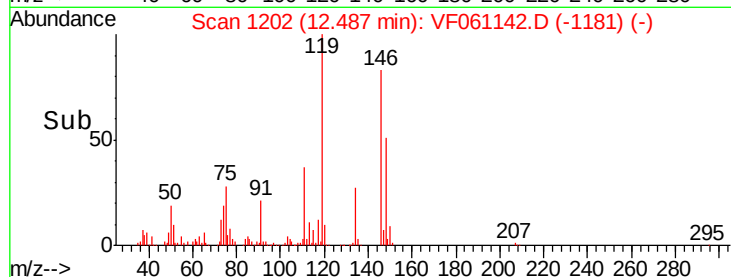
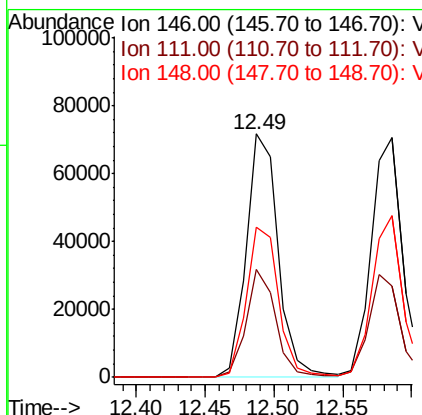
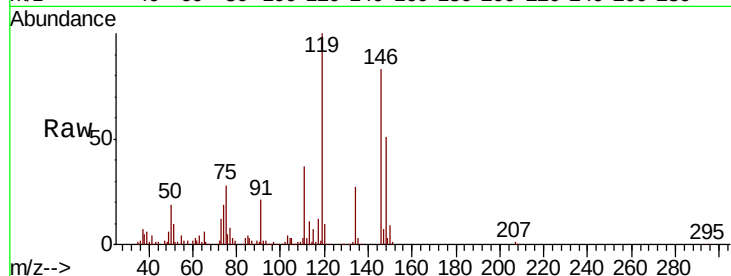




#87
 1,3-Dichlorobenzene
 Concen: 19.996 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

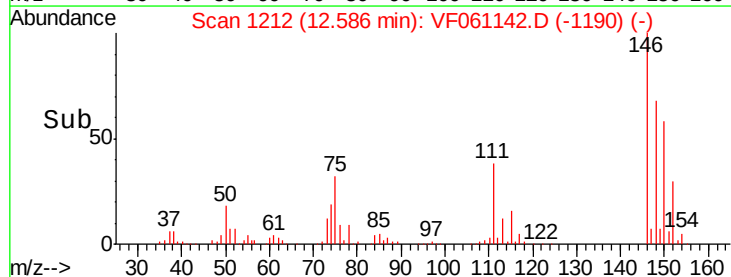
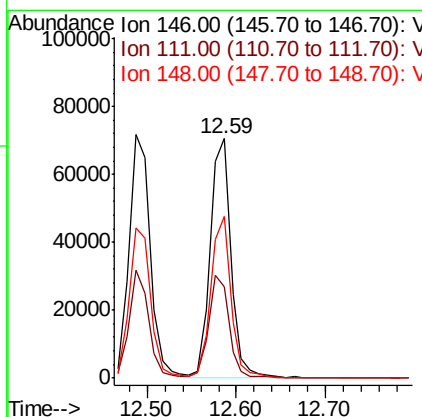
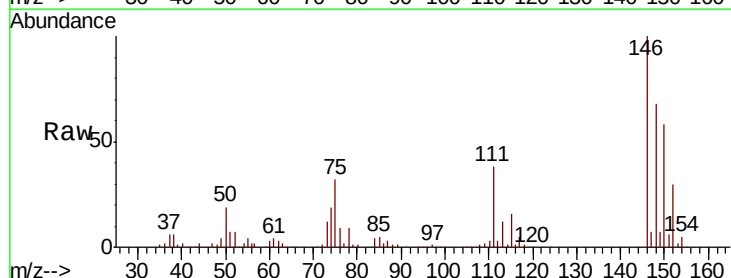
Instrument :
 MSVOA_F
 ClientSampled :

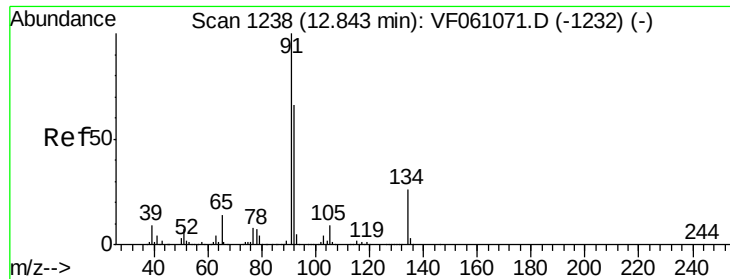
Tot Ion:146 Resp: 117011
 Ion Ratio Lower Upper
 146 100
 111 44.5 19.3 57.9
 148 61.7 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 20.020 ug/l
 RT: 12.59 min Scan# 1212
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion:146 Resp: 113495
 Ion Ratio Lower Upper
 146 100
 111 38.0 19.4 58.4
 148 67.8 32.4 97.0

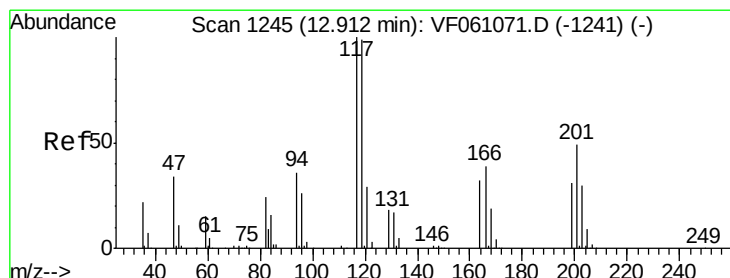
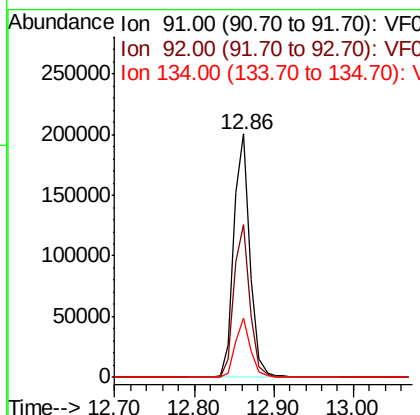
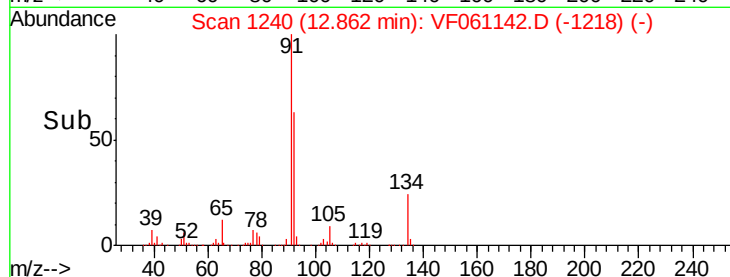
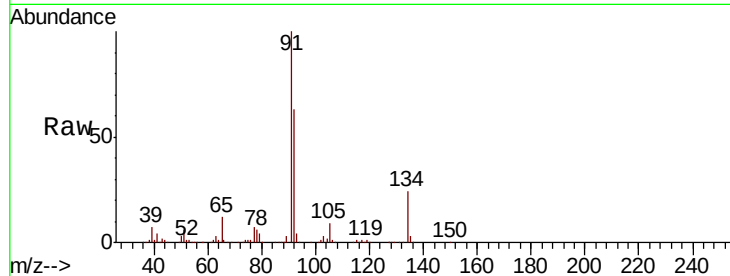




#89
n-Butylbenzene
Concen: 18.991 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

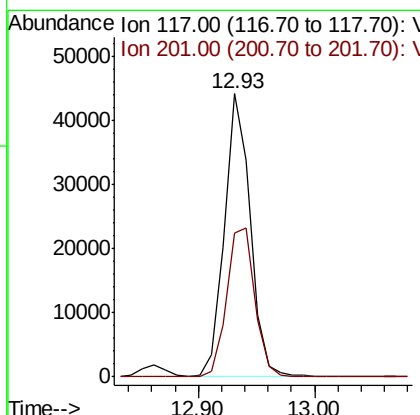
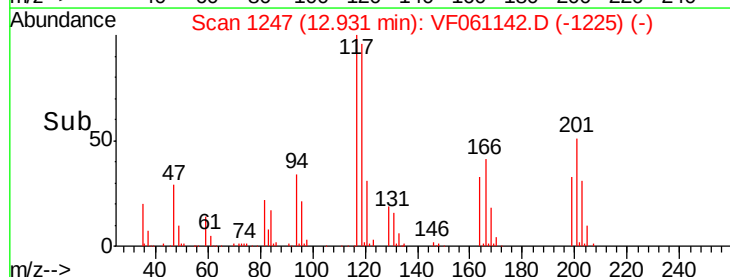
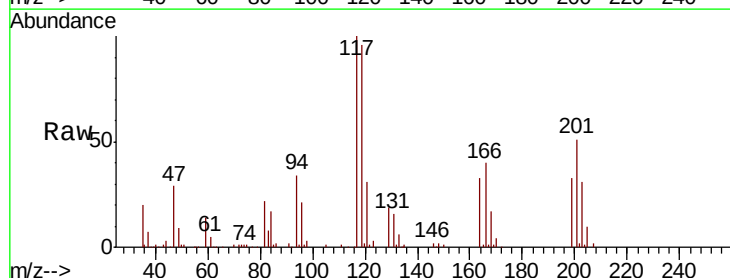
Instrument :
MSVOA_F
ClientSampled :

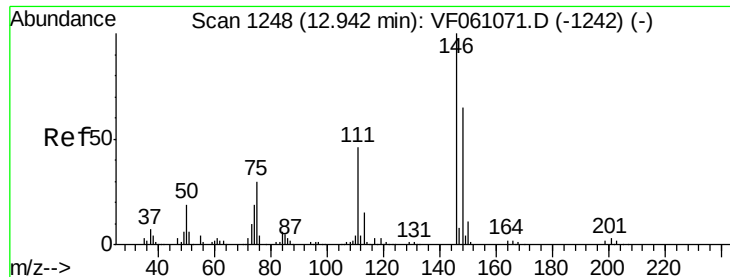
Tot Ion: 91 Resp: 287486
Ion Ratio Lower Upper
91 100
92 62.9 32.8 98.4
134 24.3 13.2 39.5



#90
Hexachloroethane
Concen: 20.852 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 117 Resp: 67816
Ion Ratio Lower Upper
117 100
201 51.0 24.9 74.8

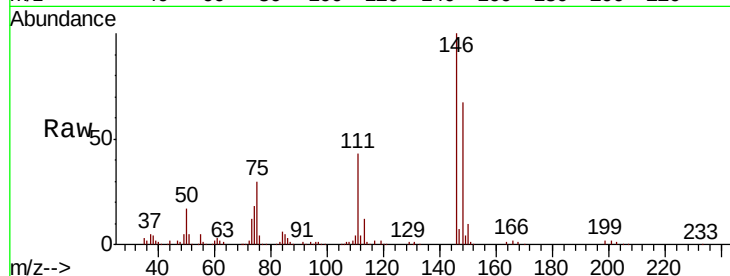




#91
 1,2-Dichlorobenzene
 Concen: 20.183 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	23.2	69.5
148	66.6	32.4	97.0

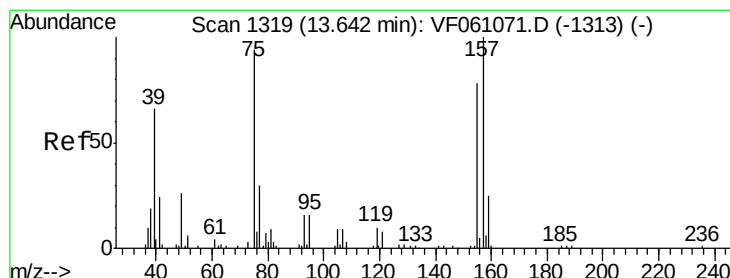
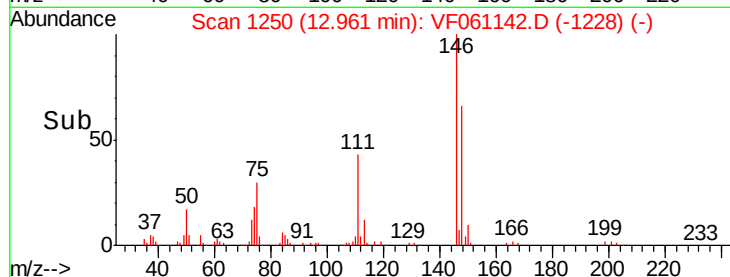
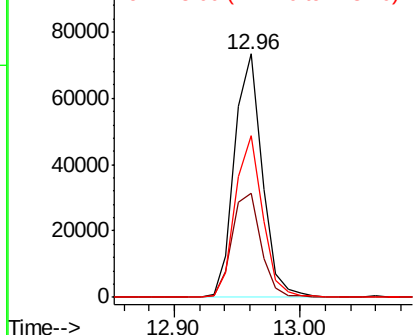


Abundance

Ion 146.00 (145.70 to 146.70): V

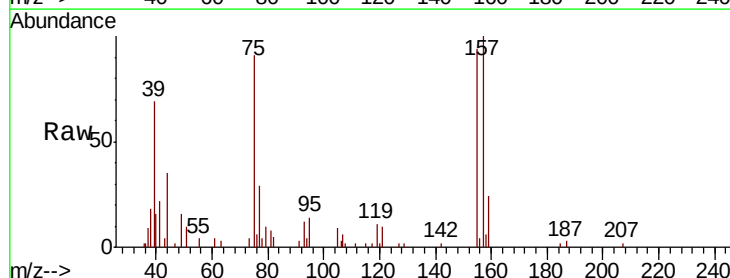
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.562 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.0	41.5	124.5
157	109.4	53.2	159.6

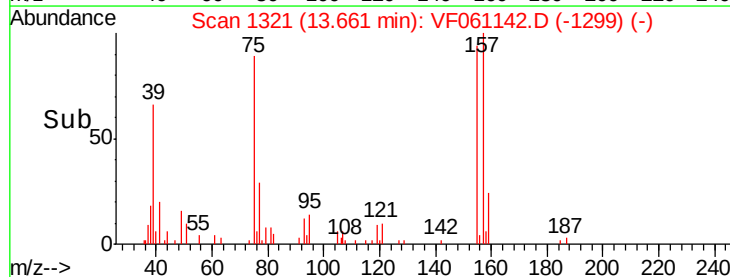
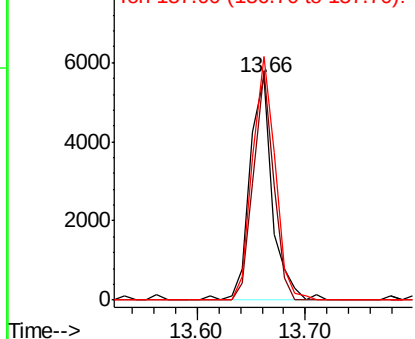


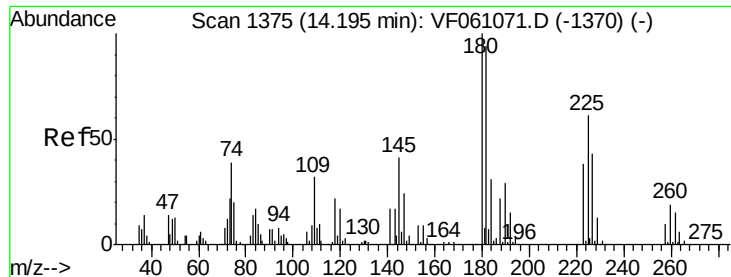
Abundance

Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

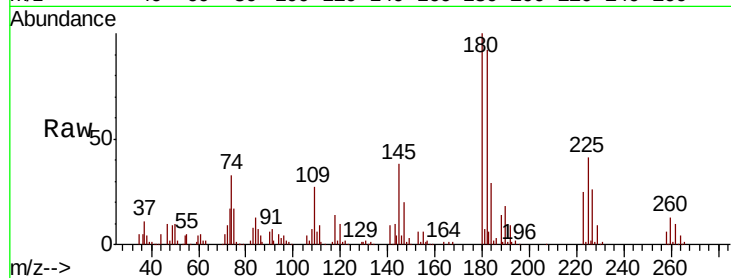




#93
 1,2,4-Trichlorobenzene
 Concen: 21.137 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.0	46.9	140.6
145	37.6	20.5	61.6

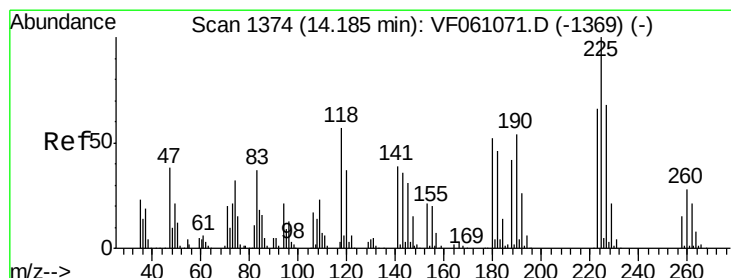
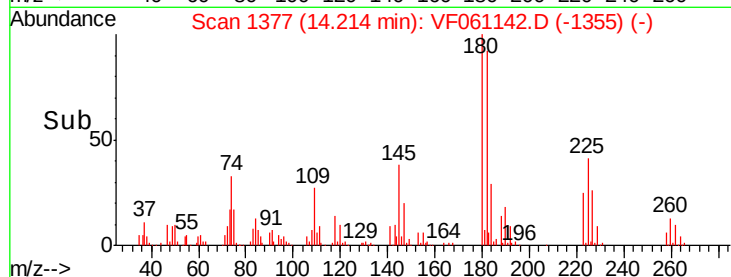
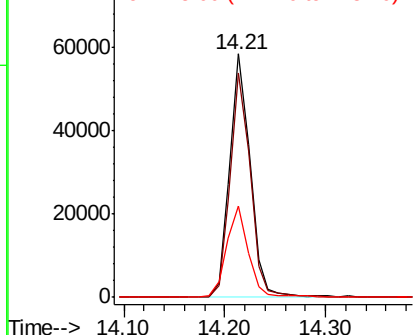


Abundance

Ion 180.00 (179.70 to 180.70): V

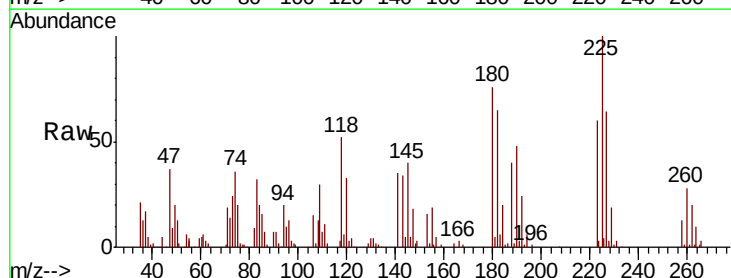
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 19.746 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.4	32.8	98.3
227	63.9	34.0	101.8

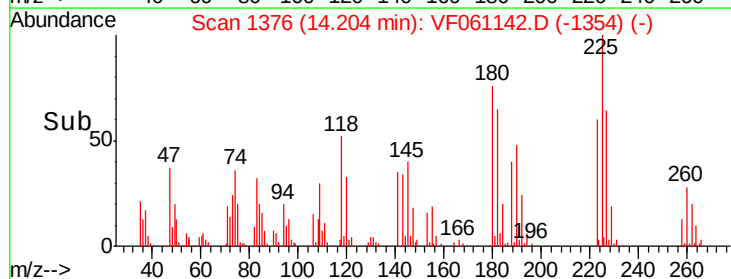
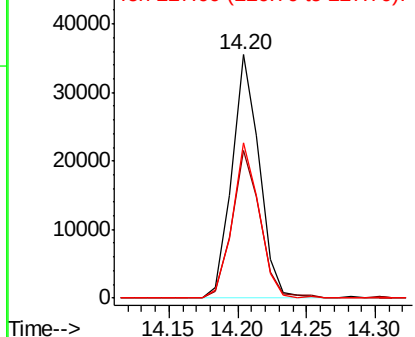


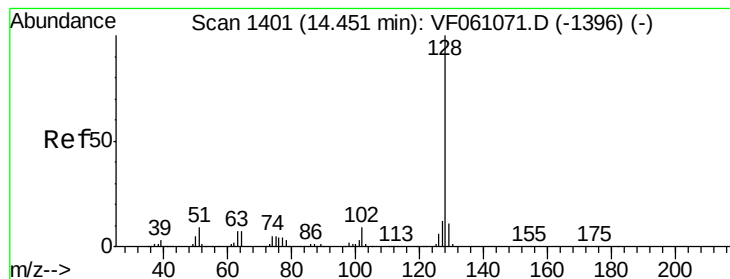
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 19.934 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampled :

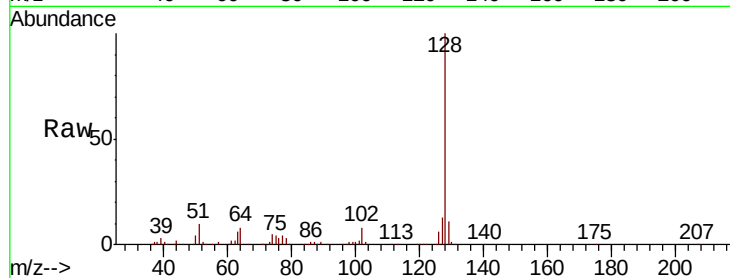
Tot Ion:128 Resp: 142481

Ion Ratio Lower Upper

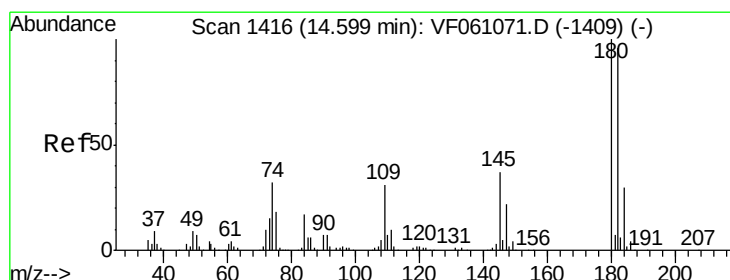
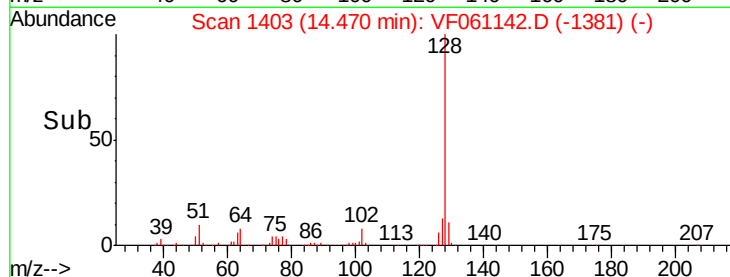
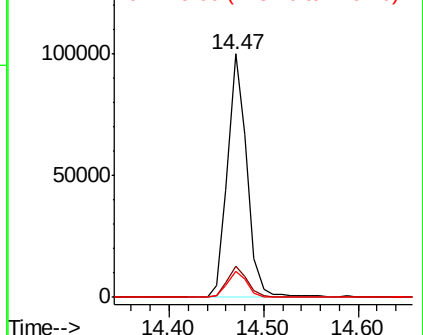
128 100

127 12.8 9.4 14.2

129 10.6 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.855 ug/l

RT: 14.62 min Scan# 1418

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

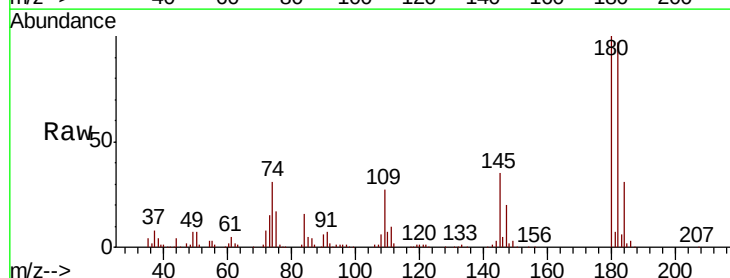
Tgt Ion:180 Resp: 71847

Ion Ratio Lower Upper

180 100

182 96.6 47.9 143.8

145 34.9 18.6 55.8



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

