

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010919\
 Data File : VF061299.D
 Acq On : 9 Jan 2019 14:16
 Operator : VA/AP
 Sample : VF0109SBS02
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS02

Quant Time: Jan 10 06:38:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	232447	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	389538	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	355276	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	178592	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	130087	50.28	ug/l	0.02
Spiked Amount			Recovery	=	100.56%	
35) Dibromofluoromethane	4.14	113	149148	50.04	ug/l	0.03
Spiked Amount			Recovery	=	100.08%	
50) Toluene-d8	7.57	98	409847	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
62) 4-Bromofluorobenzene	11.42	95	180537	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	77622	18.103	ug/l	97
3) Chloromethane	1.09	50	72011	18.847	ug/l	97
4) Vinyl Chloride	1.14	62	61914	18.143	ug/l	97
5) Bromomethane	1.31	94	38558	15.427	ug/l	100
6) Chloroethane	1.39	64	28830	17.300	ug/l	98
7) Trichlorofluoromethane	1.48	101	102597	17.735	ug/l	99
8) Diethyl Ether	1.64	74	16394	19.298	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.83	101	53182	17.410	ug/l	91
10) Methyl Iodide	1.91	142	84429m	17.642	ug/l	
11) Tert butyl alcohol	2.58	59	10484	101.207	ug/l #	86
12) 1,1-Dichloroethene	1.80	96	43803	17.932	ug/l	92
13) Acrolein	2.01	56	10617	79.825	ug/l	89
14) Allyl chloride	2.11	41	77888	17.445	ug/l	97
15) Acrylonitrile	2.96	53	35685	97.175	ug/l	95
16) Acetone	2.25	43	65046	108.074	ug/l	97
17) Carbon Disulfide	1.81	76	134948	16.726	ug/l	97
18) Methyl Acetate	2.35	43	24770m	20.918	ug/l	
19) Methyl tert-butyl Ether	2.44	73	80176	17.225	ug/l	97
20) Methylene Chloride	2.19	84	55859m	21.938	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	45980	17.764	ug/l	98
22) Diisopropyl ether	2.82	45	158495	18.349	ug/l	95
23) Vinyl Acetate	3.20	43	304596	120.579	ug/l	100
24) 1,1-Dichloroethane	2.89	63	88586	17.729	ug/l	99
25) 2-Butanone	4.36	43	111586	115.192	ug/l	98
26) 2,2-Dichloropropane	3.63	77	54215	16.237	ug/l	98
27) cis-1,2-Dichloroethene	3.49	96	69154	19.136	ug/l	91
28) Bromochloromethane	3.74	49	42722	19.392	ug/l	97
29) Tetrahydrofuran	4.10	42	45066	111.269	ug/l	96
30) Chloroform	3.88	83	123895	19.533	ug/l	97
31) Cyclohexane	3.72	56	105693	20.163	ug/l	93
32) 1,1,1-Trichloroethane	4.11	97	84991	16.589	ug/l	97
36) 1,1-Dichloropropene	4.31	75	95519	20.999	ug/l	97
37) Ethyl Acetate	4.14	43	38385	23.172	ug/l #	47
38) Carbon Tetrachloride	4.01	117	78502	18.221	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	107521	18.891	ug/l	98
40) Benzene	4.66	78	221459	20.853	ug/l	100
41) Methacrylonitrile	4.77	41	21043	22.748	ug/l	94
42) 1,2-Dichloroethane	4.97	62	68584	20.743	ug/l	97
43) Isopropyl Acetate	6.98	43	51033	23.335	ug/l #	99
44) Trichloroethene	5.52	130	68324	21.983	ug/l	92
45) 1,2-Dichloropropane	6.25	63	54295	20.104	ug/l	99
46) Dibromomethane	6.11	93	35322	21.302	ug/l	94
47) Bromodichloromethane	6.41	83	85273	20.678	ug/l	99
48) Methyl methacrylate	6.73	41	30339	21.372	ug/l #	84
49) 1,4-Dioxane	6.73	88	5190	579.416	ug/l #	87
51) 4-Methyl-2-Pentanone	8.27	43	184505	111.771	ug/l	99
52) Toluene	7.64	92	130400	19.103	ug/l	99
53) t-1,3-Dichloropropene	8.30	75	69843	21.566	ug/l	99
54) cis-1,3-Dichloropropene	7.32	75	91053	21.204	ug/l	98
55) 1,1,2-Trichloroethane	8.51	97	38609	20.213	ug/l	95
56) Ethyl methacrylate	8.64	69	44745	20.959	ug/l	98
57) 1,3-Dichloropropane	8.88	76	69910	20.680	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.32	63	11421	125.539	ug/l #	82
59) 2-Hexanone	9.52	43	132660	113.436	ug/l	97
60) Dibromochloromethane	8.74	129	51380	20.200	ug/l	99
61) 1,2-Dibromoethane	9.00	107	40336	20.716	ug/l	96
64) Tetrachloroethene	8.17	164	55131	21.313	ug/l	99
65) Chlorobenzene	9.82	112	143721	20.033	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.95	131	60114	20.535	ug/l	95
67) Ethyl Benzene	9.92	91	280382	20.270	ug/l	94
68) m/p-Xylenes	10.15	106	196305	40.684	ug/l	99
69) o-Xylene	10.73	106	112205	20.817	ug/l	94
70) Styrene	10.81	104	150635	20.979	ug/l	97
71) Bromoform	10.79	173	25587	21.387	ug/l	99
73) Isopropylbenzene	11.14	105	324435	20.645	ug/l	98
74) N-amyl acetate	11.39	43	78629	22.011	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.71	83	46238	18.557	ug/l	99
76) 1,2,3-Trichloropropane	11.80	75	37734	20.648	ug/l	96
77) Bromobenzene	11.51	156	64940	20.771	ug/l	89
78) n-propylbenzene	11.61	91	378014	20.175	ug/l	98
79) 2-Chlorotoluene	11.74	91	236644	22.668	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	266725	21.330	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.88	75	16922m	21.189	ug/l	
82) 4-Chlorotoluene	11.91	91	219252	20.669	ug/l	96
83) tert-Butylbenzene	12.14	119	267784	21.494	ug/l	99
84) 1,2,4-Trimethylbenzene	12.22	105	255495	20.580	ug/l	98
85) sec-Butylbenzene	12.32	105	364395	20.542	ug/l	98
86) p-Isopropyltoluene	12.48	119	294106	20.384	ug/l	98
87) 1,3-Dichlorobenzene	12.49	146	126631	20.740	ug/l	95
88) 1,4-Dichlorobenzene	12.57	146	119760	20.403	ug/l	98
89) n-Butylbenzene	12.86	91	317189	21.396	ug/l	97
90) Hexachloroethane	12.93	117	68090	20.630	ug/l	93
91) 1,2-Dichlorobenzene	12.96	146	122920	21.093	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.66	75	9334	22.171	ug/l	80

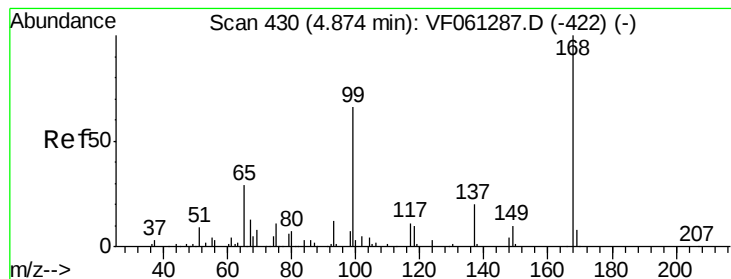
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	83949	20.933	ug/l	98
94) Hexachlorobutadiene	14.20	225	50764	19.663	ug/l	97
95) Naphthalene	14.47	128	152018	20.115	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	76130	20.153	ug/l	97

(#) = 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: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

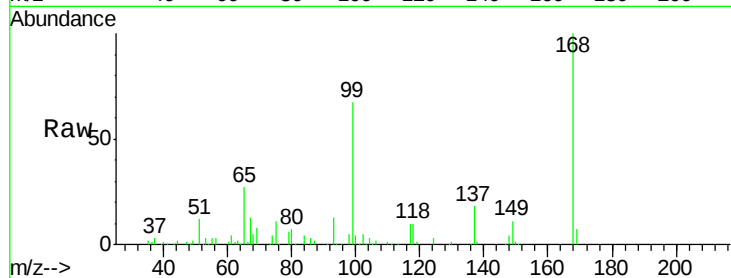
VF0109SBS02

Tot Ion:168 Resp: 232447

Ion Ratio Lower Upper

168 100

99 67.1 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

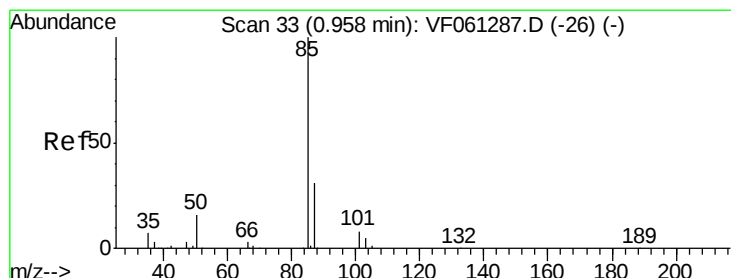
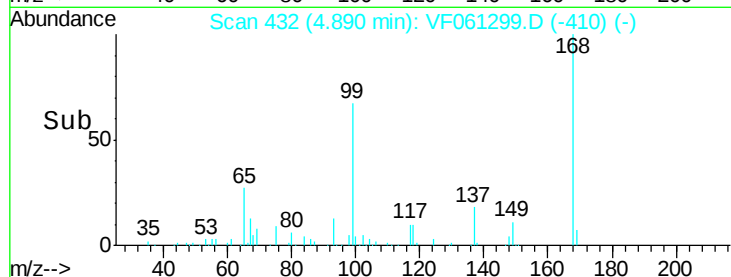
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 18.103 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061299.D

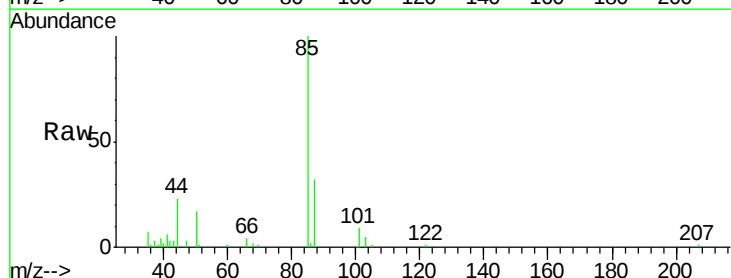
Acq: 9 Jan 2019 14:16

Tgt Ion: 85 Resp: 77622

Ion Ratio Lower Upper

85 100

87 32.4 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

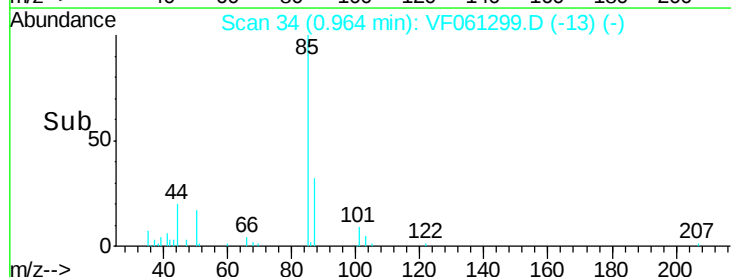
15000

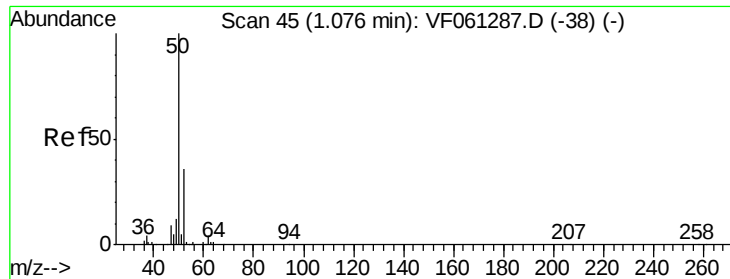
10000

5000

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 18.847 ug/l

RT: 1.09 min Scan# 47

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

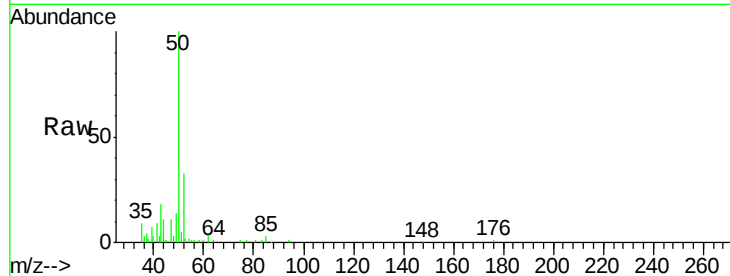
VF0109SBSD02

Tot Ion: 50 Resp: 72011

Ion Ratio Lower Upper

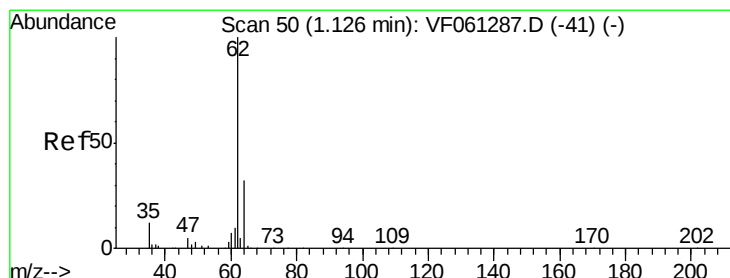
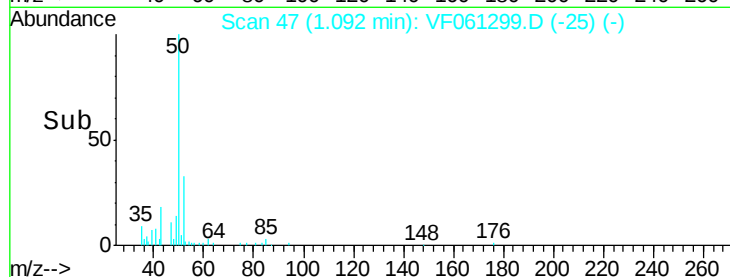
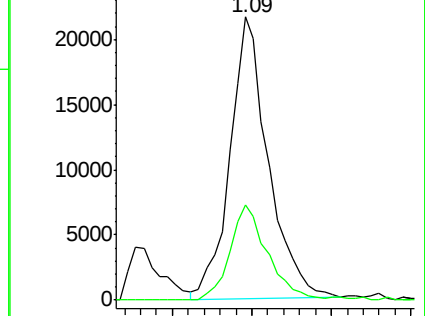
50 100

52 33.4 28.2 42.2



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 18.143 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.02 min

Lab File: VF061299.D

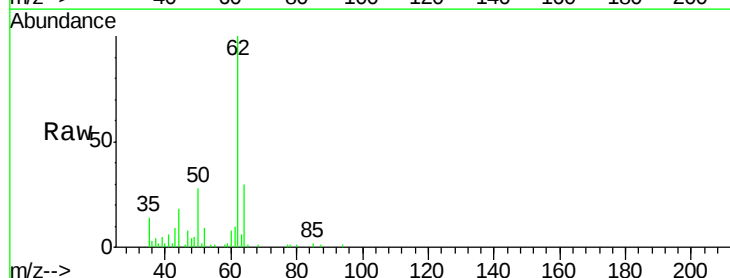
Acq: 9 Jan 2019 14:16

Tgt Ion: 62 Resp: 61914

Ion Ratio Lower Upper

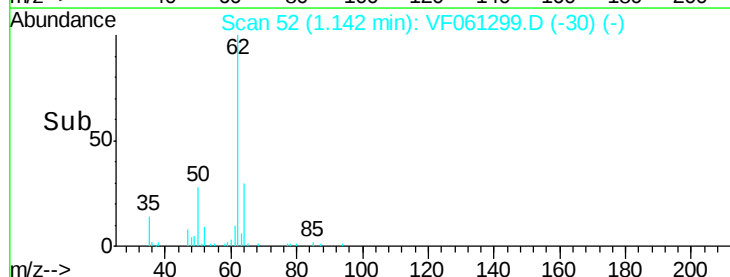
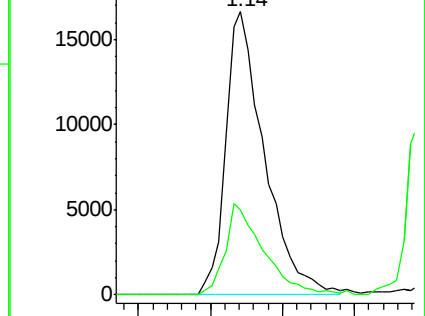
62 100

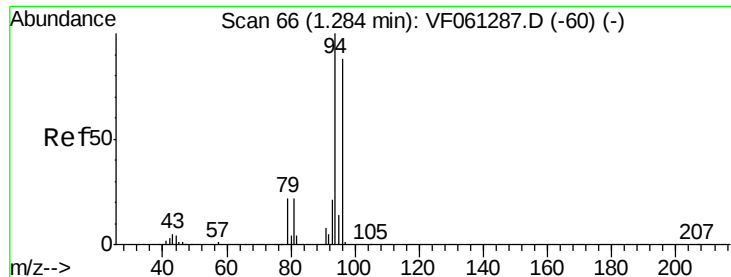
64 30.1 25.4 38.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 15.427 ug/l

RT: 1.31 min Scan# 69

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

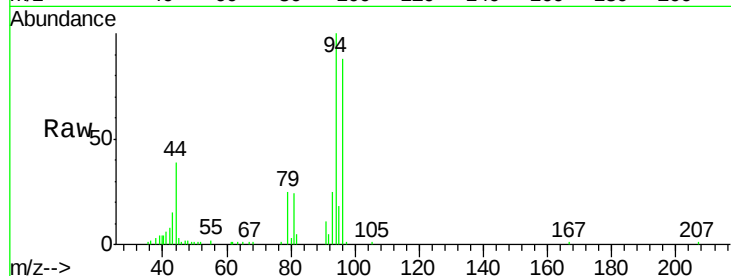
VF0109SBS02

Tot Ion: 94 Resp: 38558

Ion Ratio Lower Upper

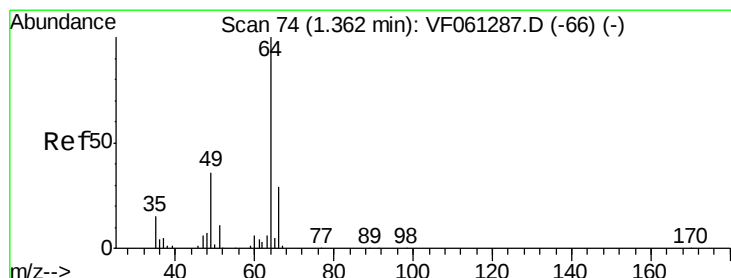
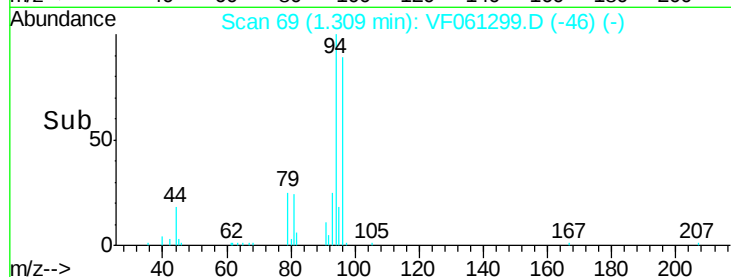
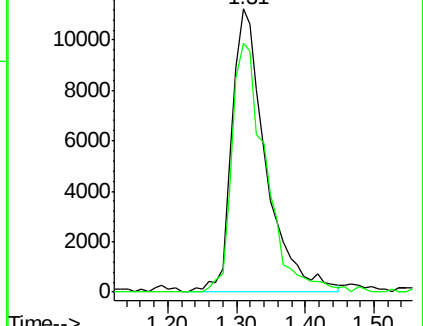
94 100

96 88.0 70.2 105.4



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 17.300 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.03 min

Lab File: VF061299.D

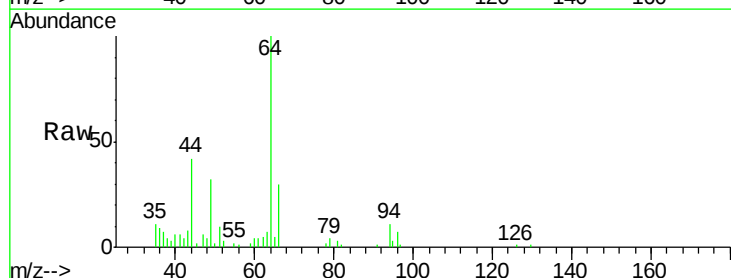
Acq: 9 Jan 2019 14:16

Tgt Ion: 64 Resp: 28830

Ion Ratio Lower Upper

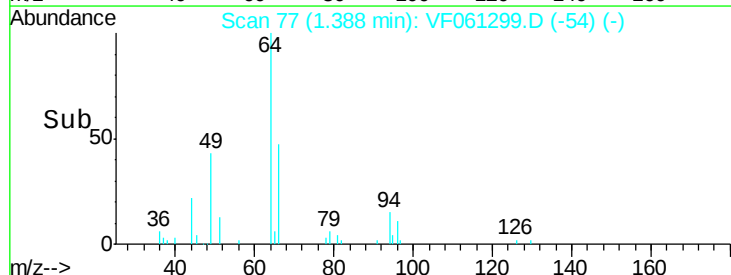
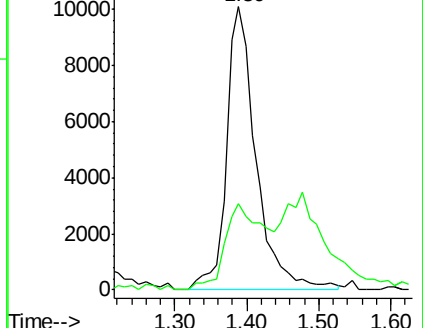
64 100

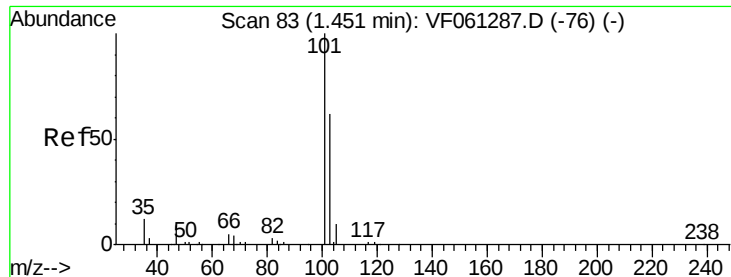
66 30.5 23.4 35.0



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 17.735 ug/l

RT: 1.48 min Scan# 86

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

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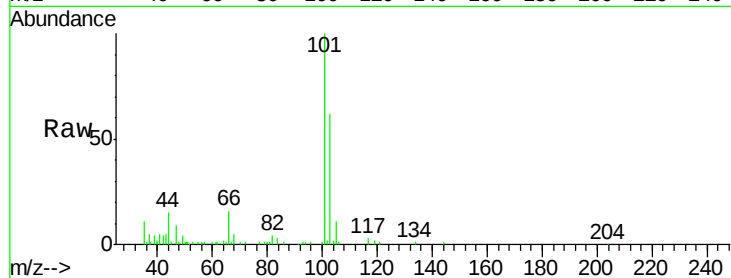
VF0109SBSD02

Tot Ion:101 Resp: 102597

Ion Ratio Lower Upper

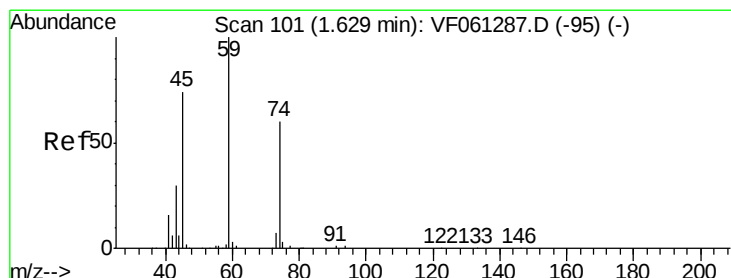
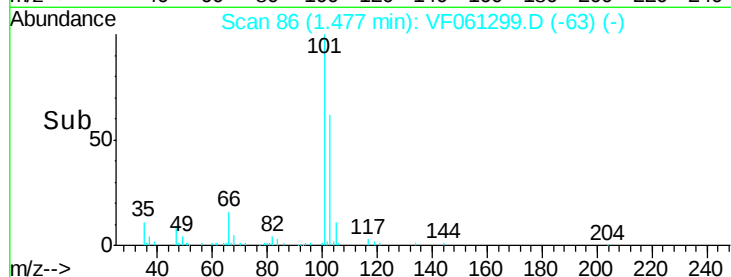
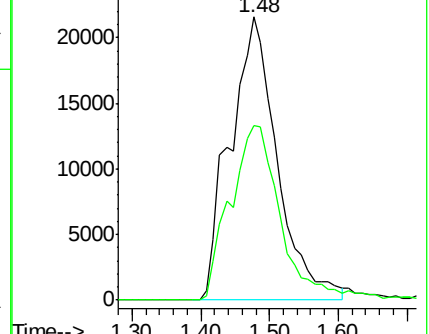
101 100

103 61.6 49.9 74.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 19.298 ug/l

RT: 1.64 min Scan# 103

Delta R.T. 0.02 min

Lab File: VF061299.D

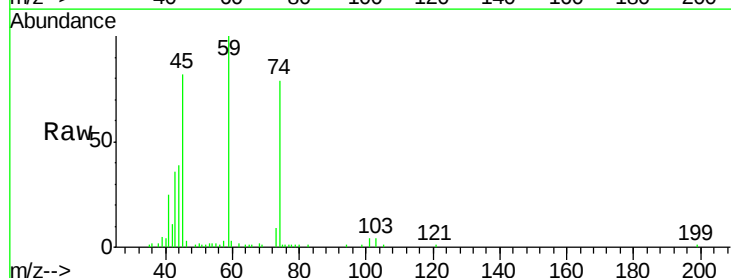
Acq: 9 Jan 2019 14:16

Tgt Ion: 74 Resp: 16394

Ion Ratio Lower Upper

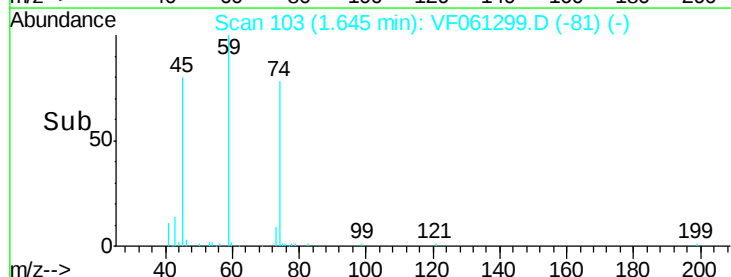
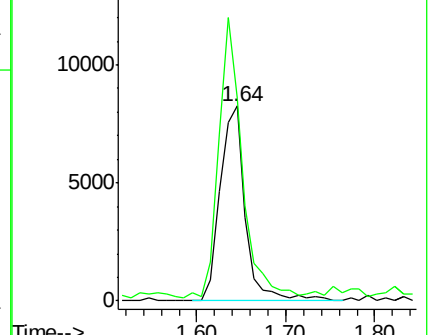
74 100

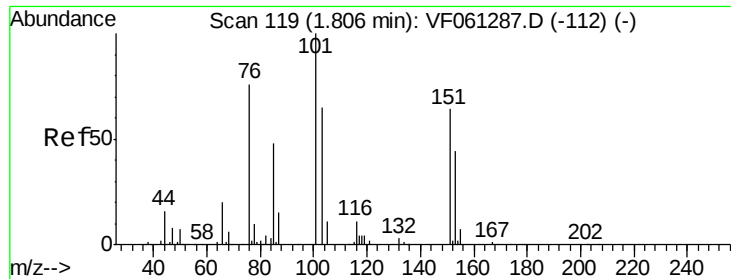
45 104.4 62.1 186.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.410 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

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ClientSampleId :

VF0109SBSD02

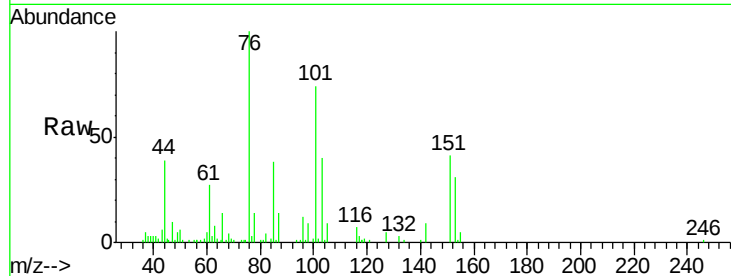
Tot Ion:101 Resp: 53182

Ion Ratio Lower Upper

101 100

85 51.3 38.4 57.6

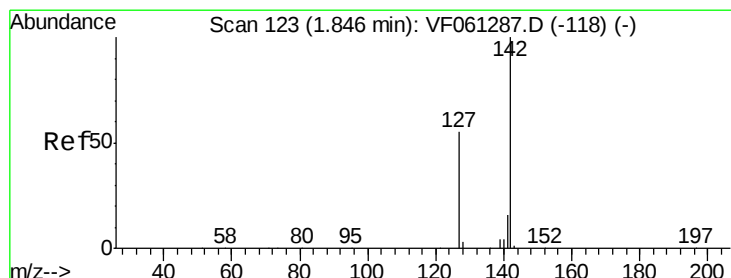
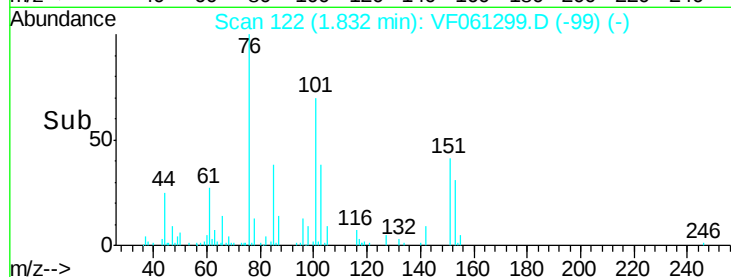
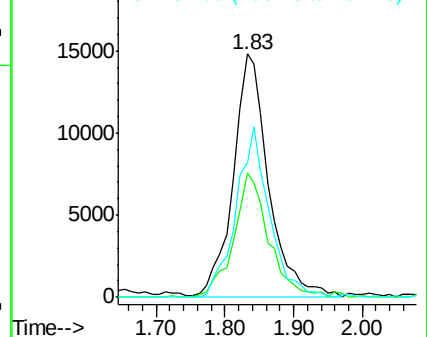
151 55.2 51.4 77.2



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: 17.642 ug/l m

RT: 1.91 min Scan# 130

Delta R.T. 0.07 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

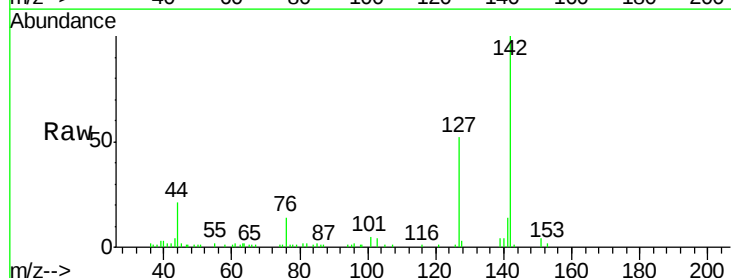
Tgt Ion:142 Resp: 84429

Ion Ratio Lower Upper

142 100

127 51.9 44.3 66.5

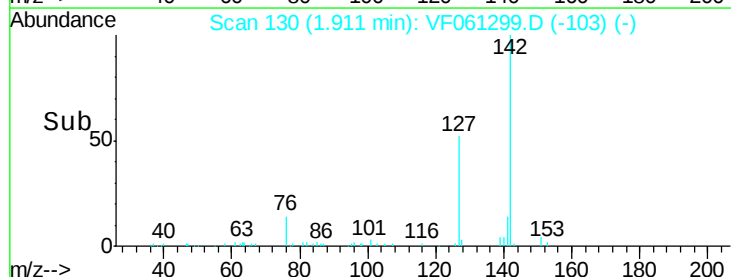
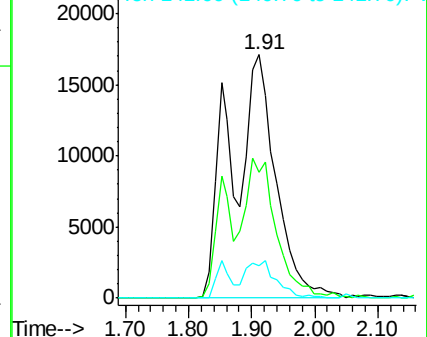
141 13.6 13.2 19.8

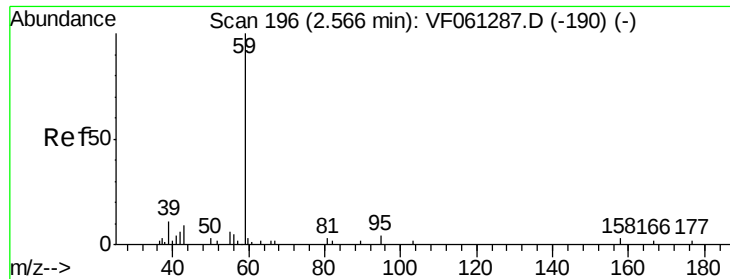


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

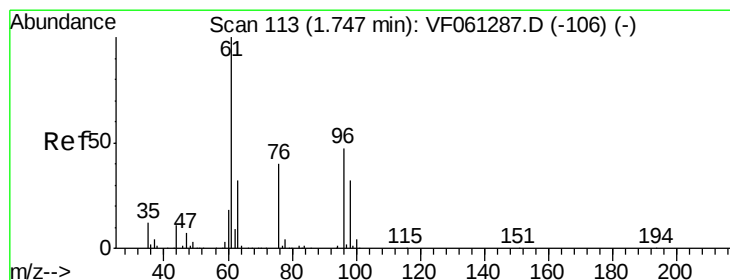
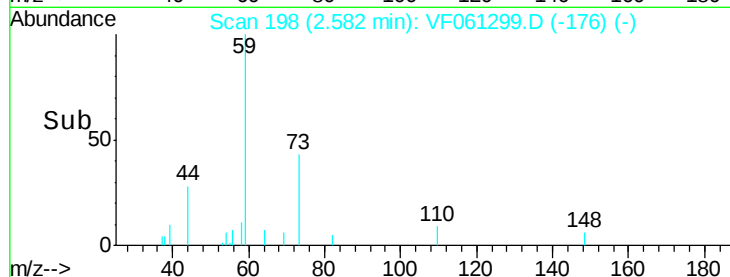
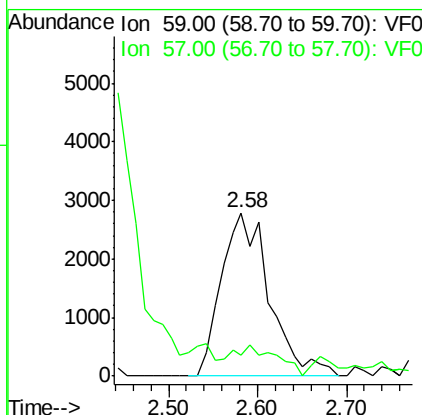
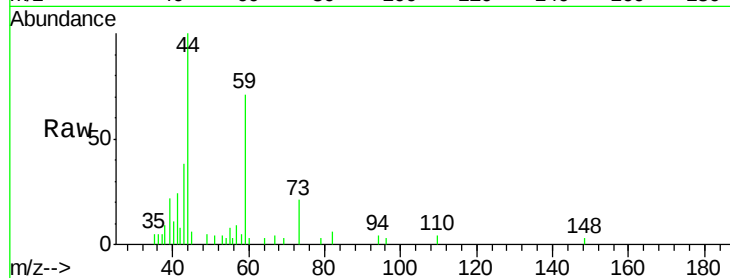




#11
Tert butyl alcohol
Concen: 101.207 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

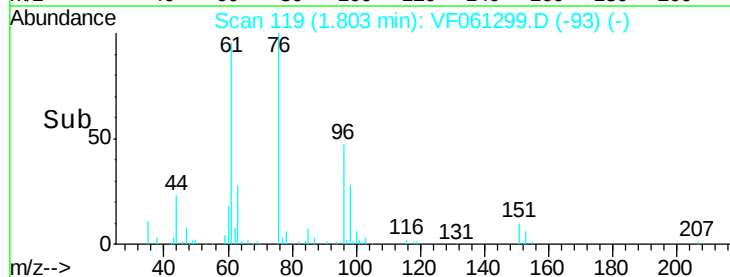
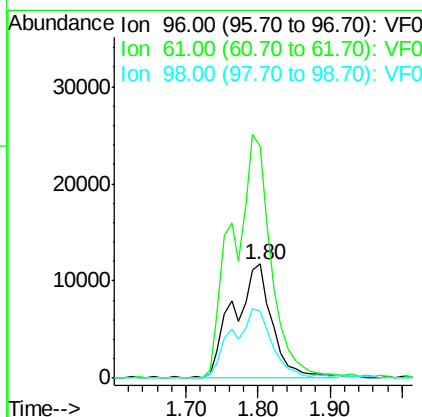
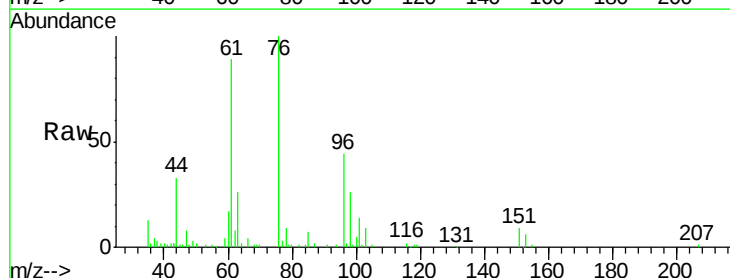
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

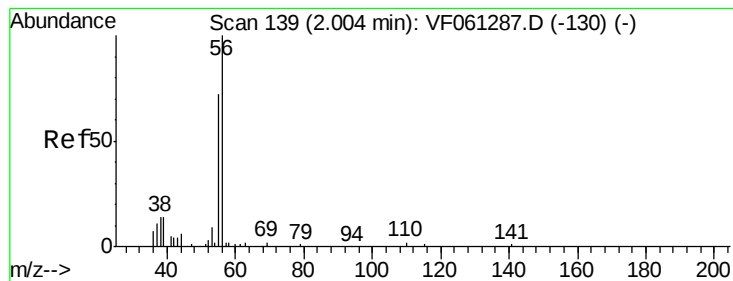
Tot Ion: 59 Resp: 10484
Ion Ratio Lower Upper
59 100
57 12.6 15.1 22.7#



#12
1,1-Dichloroethene
Concen: 17.932 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.06 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion: 96 Resp: 43803
Ion Ratio Lower Upper
96 100
61 203.2 171.8 257.8
98 59.0 54.2 81.4





#13

Acrolein

Concen: 79.825 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

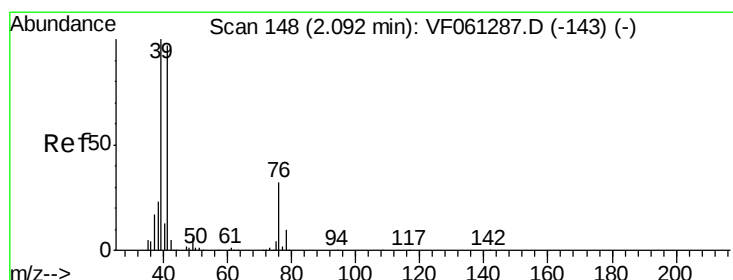
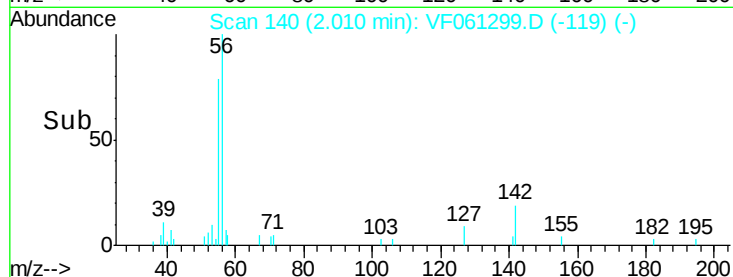
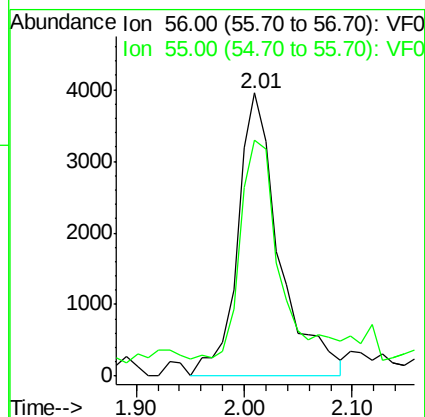
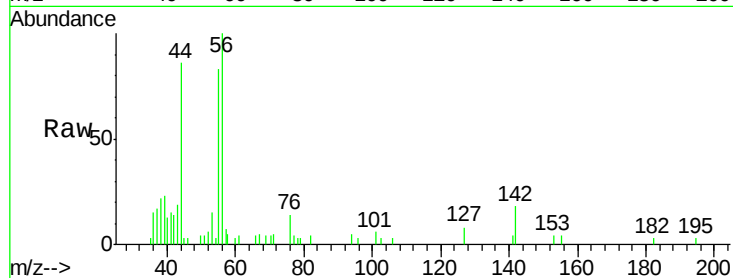
VF0109SBSD02

Tot Ion: 56 Resp: 10617

Ion Ratio Lower Upper

56 100

55 83.3 59.4 89.0



#14

Allyl chloride

Concen: 17.445 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

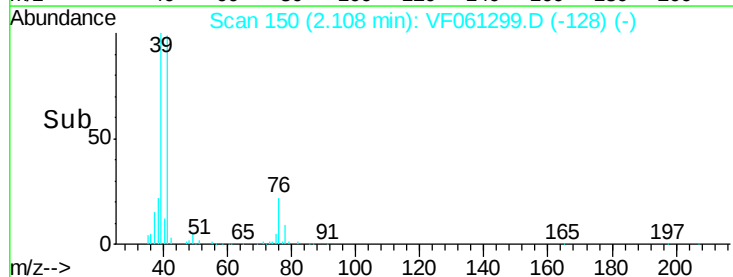
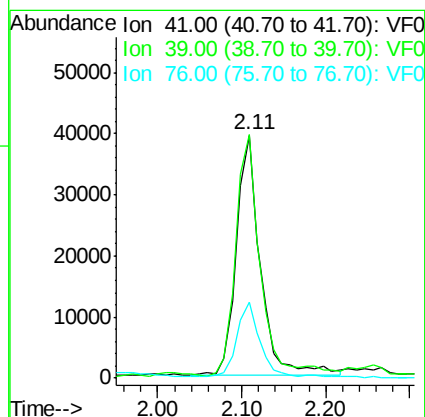
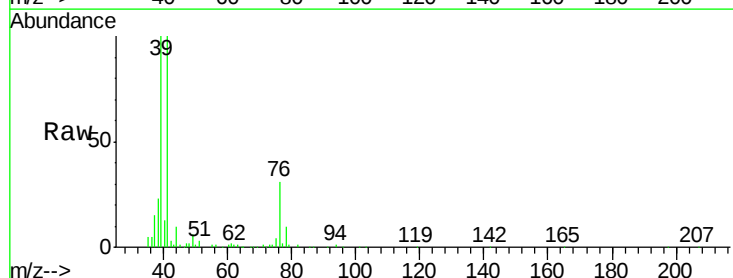
Tgt Ion: 41 Resp: 77888

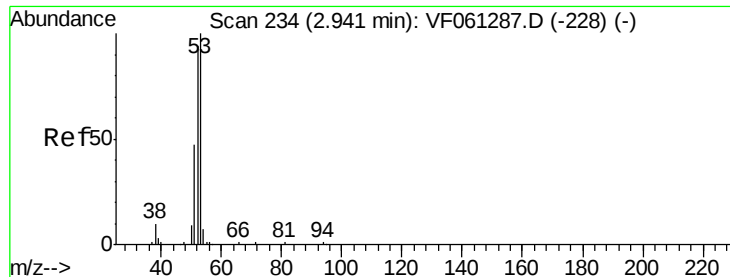
Ion Ratio Lower Upper

41 100

39 100.3 82.6 123.8

76 31.3 26.9 40.3





#15

Acrylonitrile

Concen: 97.175 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS02

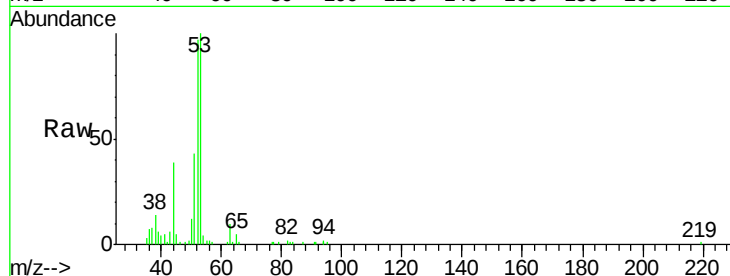
Tot Ion: 53 Resp: 35685

Ion Ratio Lower Upper

53 100

52 96.5 74.6 111.8

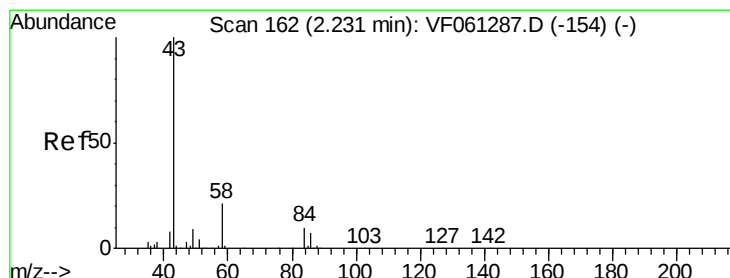
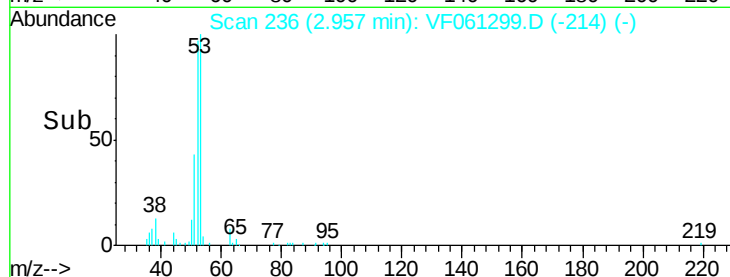
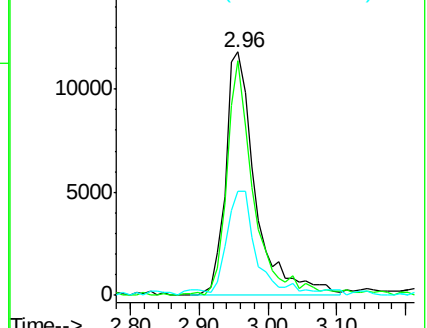
51 42.7 37.8 56.6



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: 108.074 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.02 min

Lab File: VF061299.D

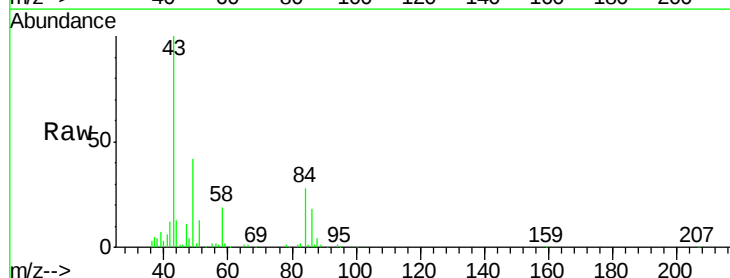
Acq: 9 Jan 2019 14:16

Tgt Ion: 43 Resp: 65046

Ion Ratio Lower Upper

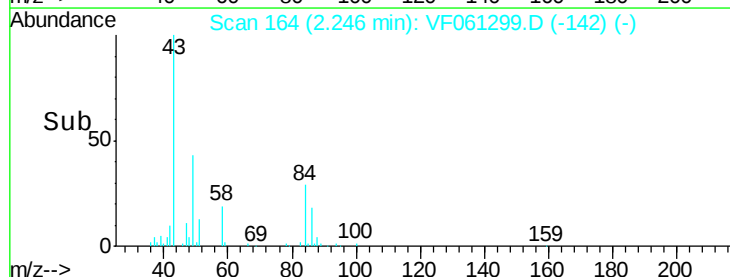
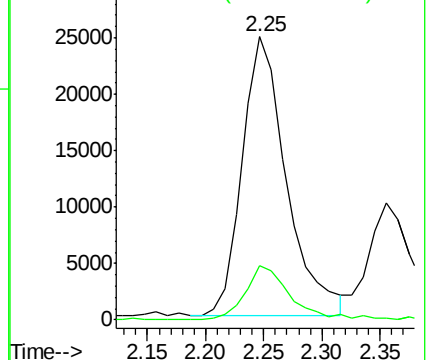
43 100

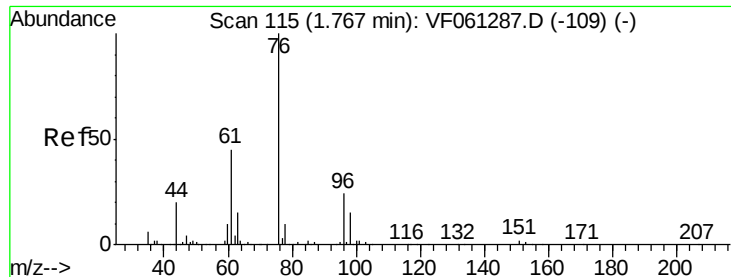
58 19.4 16.6 25.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

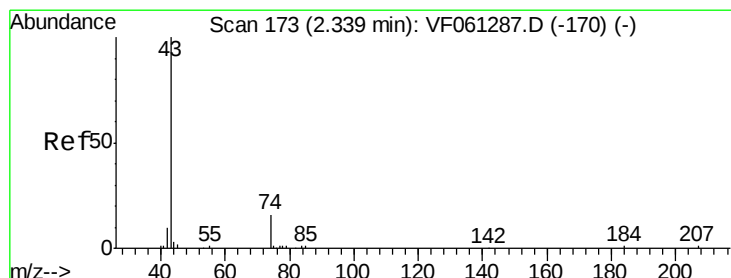
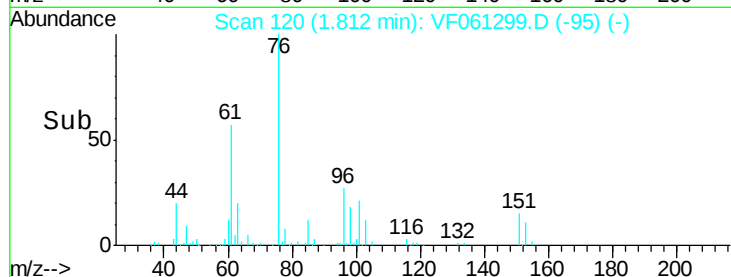
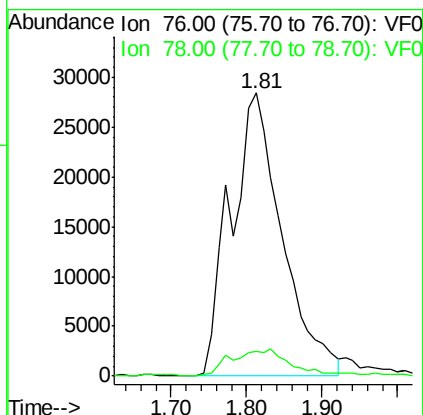
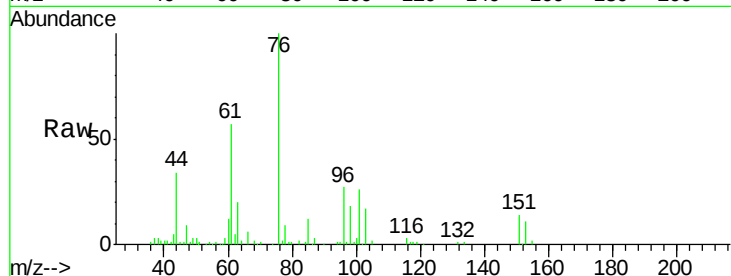




#17
Carbon Disulfide
Concen: 16.726 ug/l
RT: 1.81 min Scan# 120
Delta R.T. 0.05 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

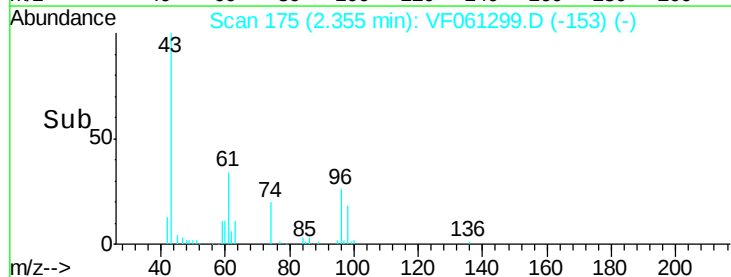
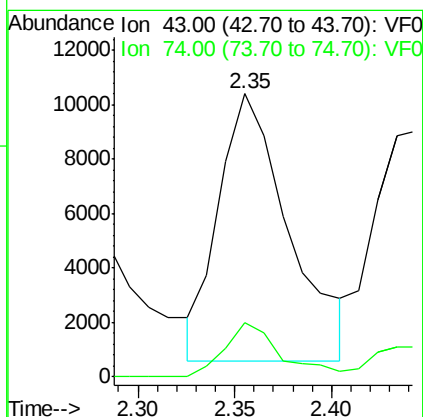
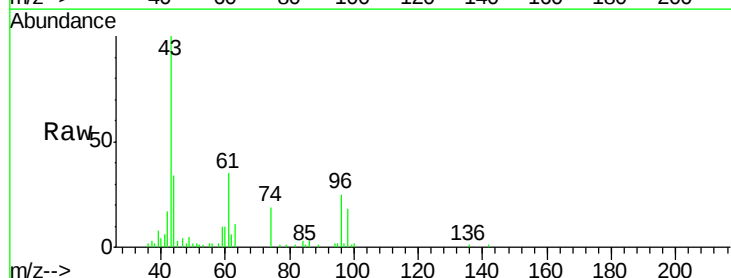
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

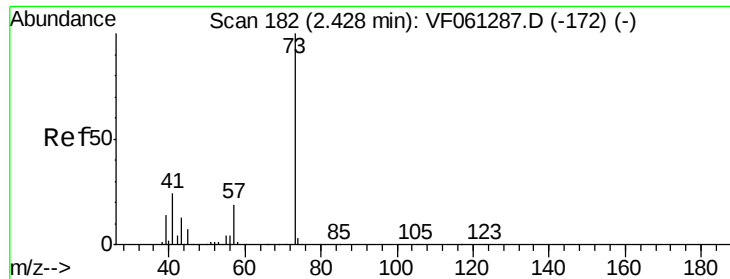
Tot Ion: 76 Resp: 134948
Ion Ratio Lower Upper
76 100
78 8.7 7.8 11.6



#18
Methyl Acetate
Concen: 20.918 ug/l m
RT: 2.35 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion: 43 Resp: 24770
Ion Ratio Lower Upper
43 100
74 19.2 11.6 17.4#

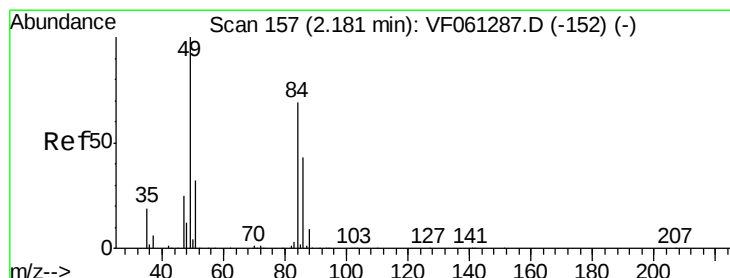
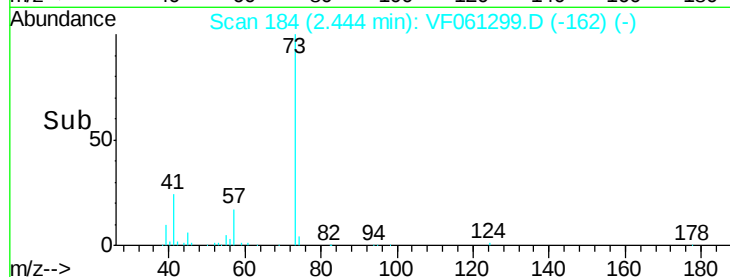
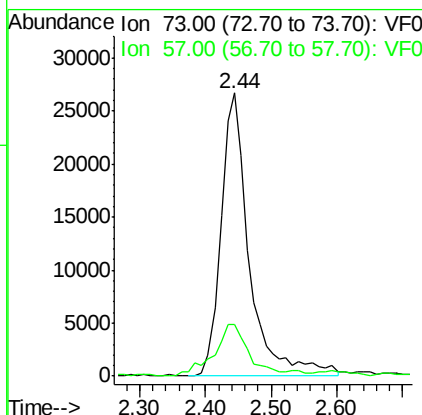
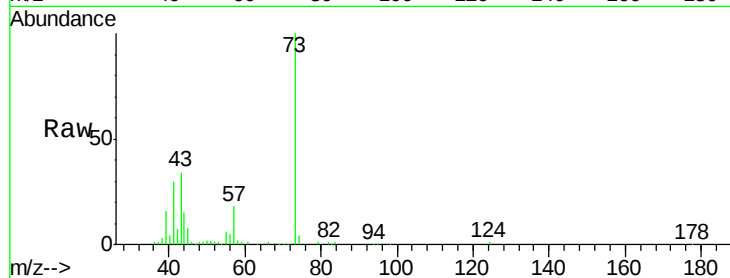




#19
Methyl tert-butyl Ether
Concen: 17.225 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

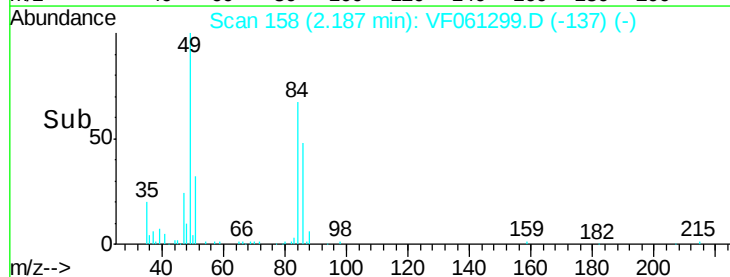
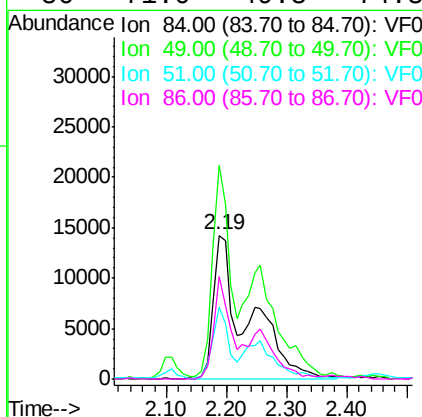
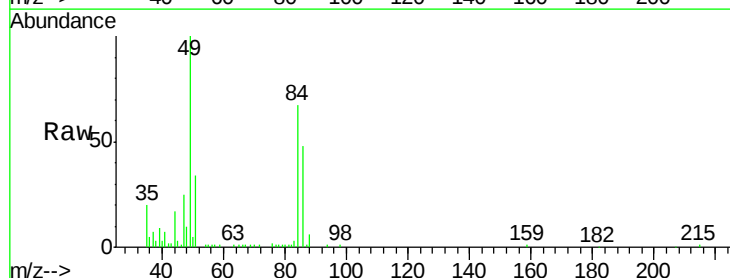
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

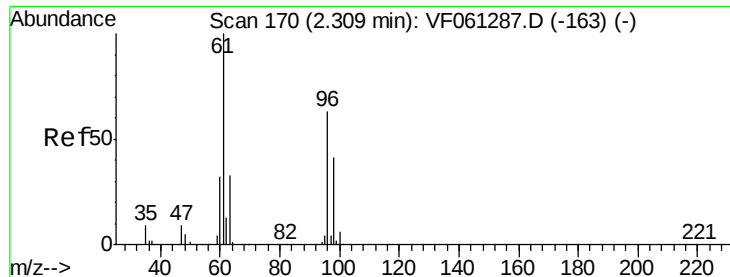
Tot Ion: 73 Resp: 80176
Ion Ratio Lower Upper
73 100
57 18.1 15.5 23.3



#20
Methylene Chloride
Concen: 21.938 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion: 84 Resp: 55859
Ion Ratio Lower Upper
84 100
49 148.8 116.6 175.0
51 50.1 37.7 56.5
86 71.0 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 17.764 ug/l

RT: 2.33 min Scan# 172

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD02

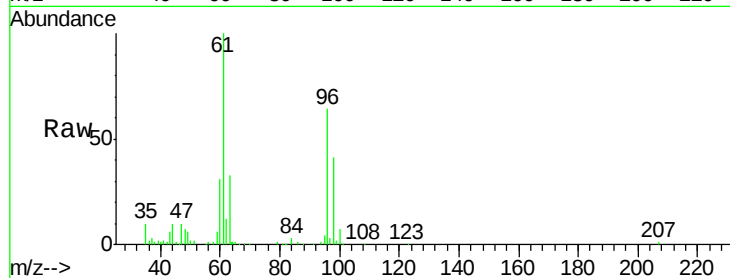
Tot Ion: 96 Resp: 45980

Ion Ratio Lower Upper

96 100

61 155.7 127.0 190.4

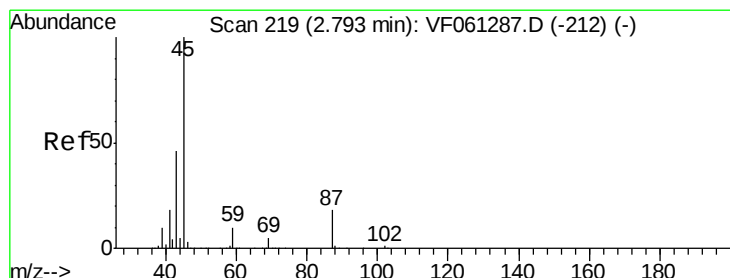
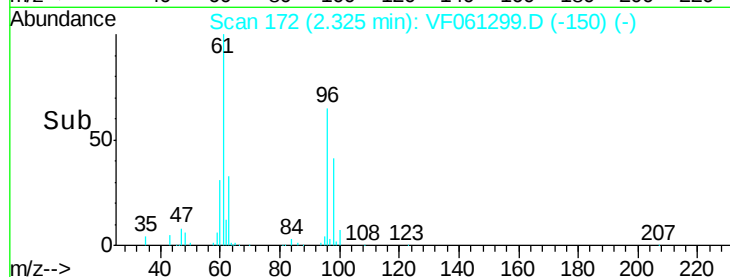
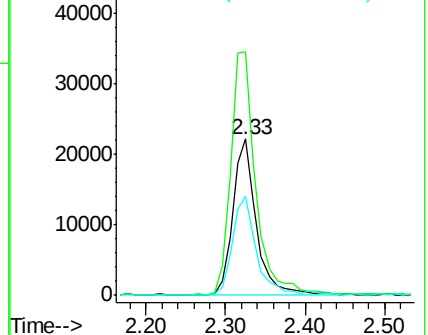
98 63.4 51.7 77.5



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: 18.349 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Tgt Ion: 45 Resp: 158495

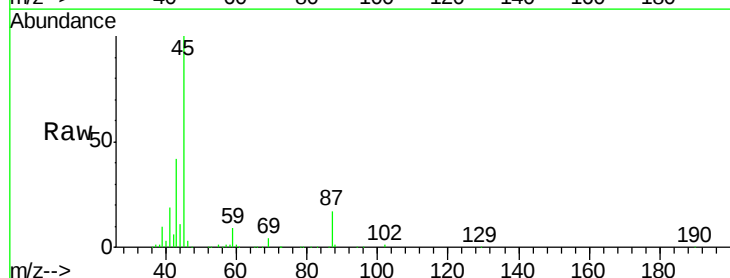
Ion Ratio Lower Upper

45 100

43 41.8 37.4 56.2

87 17.2 14.2 21.2

59 9.4 8.2 12.2

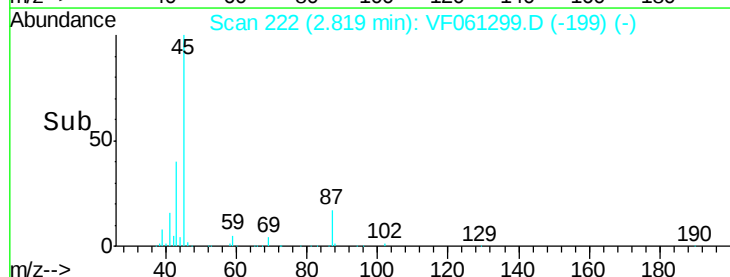
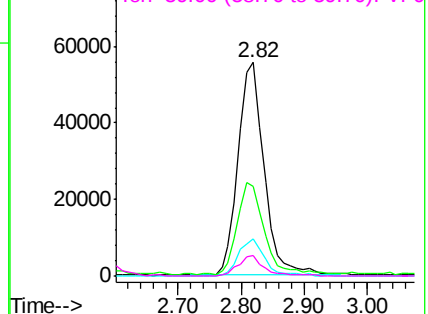


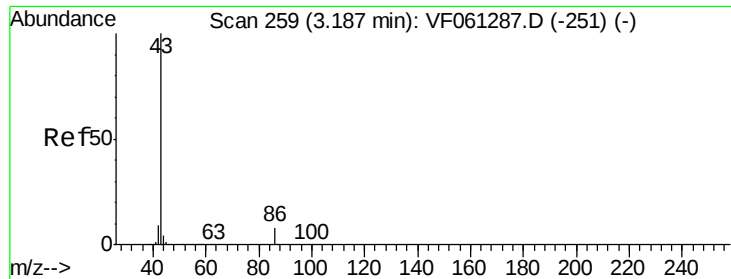
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 120.579 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

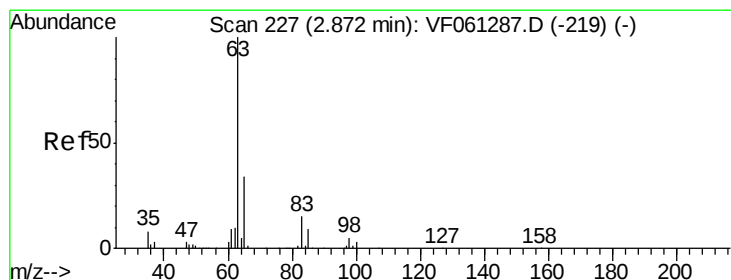
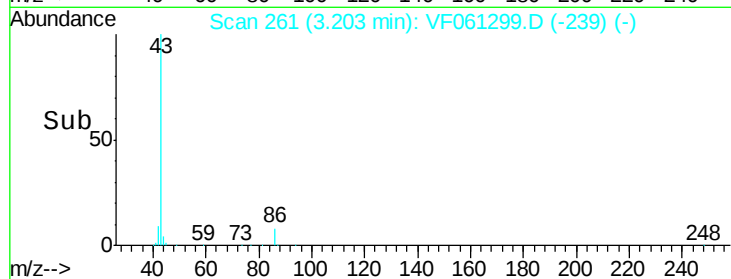
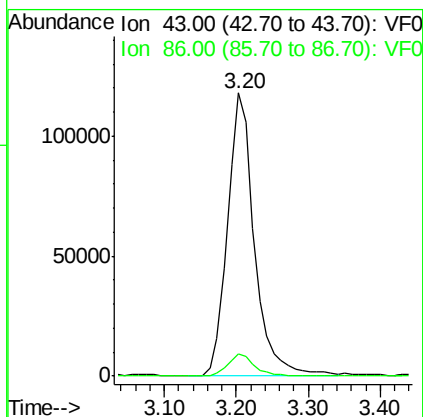
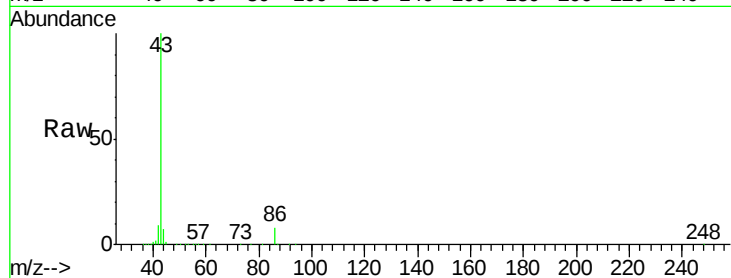
VF0109SBS02

Tot Ion: 43 Resp: 304596

Ion Ratio Lower Upper

43 100

86 8.1 6.5 9.7



#24

1,1-Dichloroethane

Concen: 17.729 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

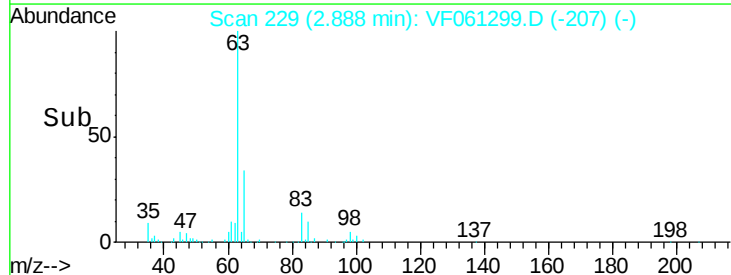
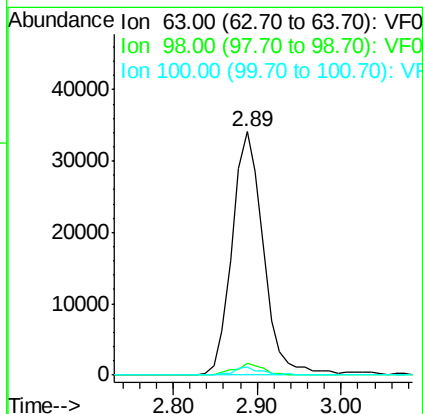
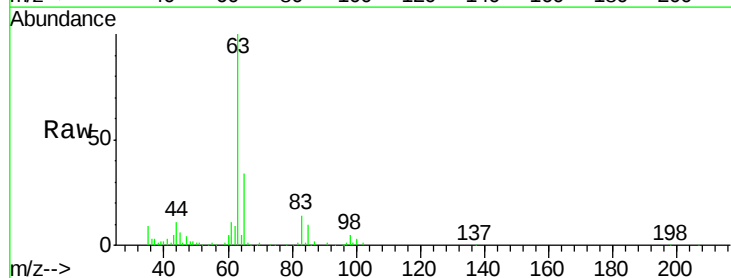
Tgt Ion: 63 Resp: 88586

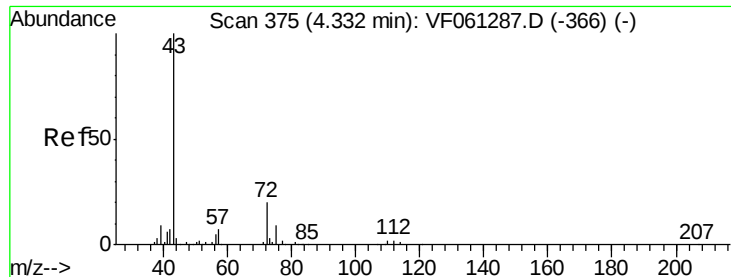
Ion Ratio Lower Upper

63 100

98 4.8 2.5 7.6

100 3.3 1.7 5.0





#25

2-Butanone

Concen: 115.192 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

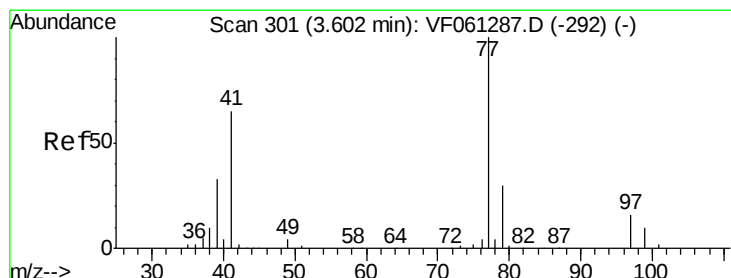
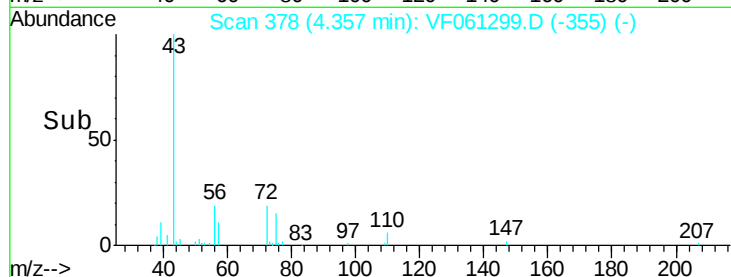
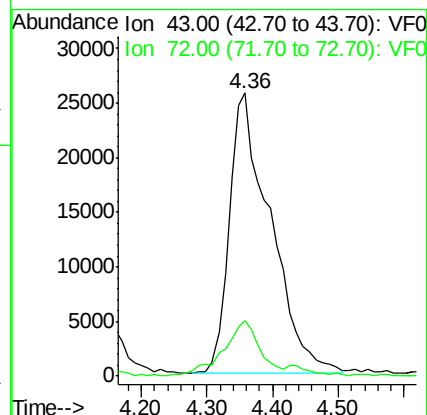
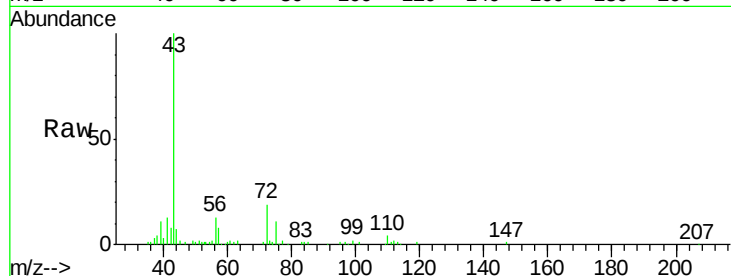
VF0109SBS02

Tot Ion: 43 Resp: 111586

Ion Ratio Lower Upper

43 100

72 19.5 16.5 24.7



#26

2,2-Dichloropropane

Concen: 16.237 ug/l

RT: 3.63 min Scan# 304

Delta R.T. 0.03 min

Lab File: VF061299.D

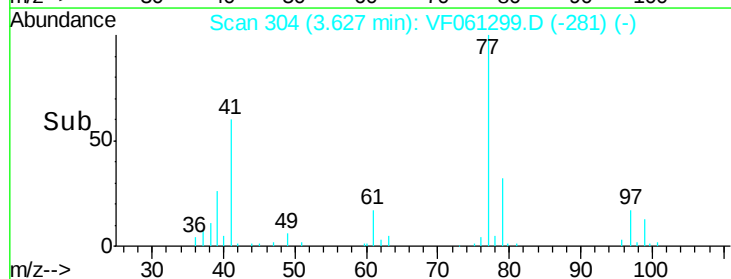
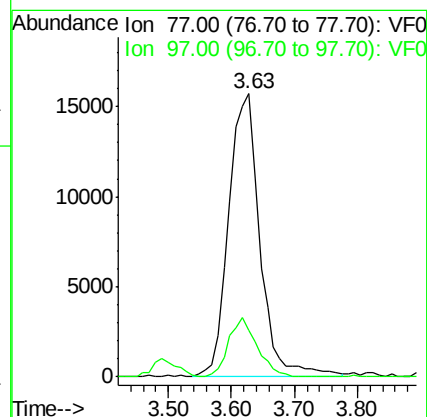
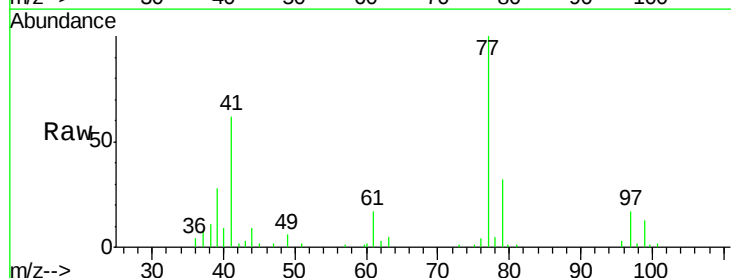
Acq: 9 Jan 2019 14:16

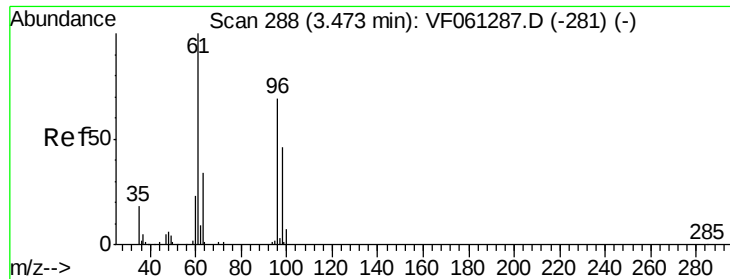
Tgt Ion: 77 Resp: 54215

Ion Ratio Lower Upper

77 100

97 16.6 8.6 25.9



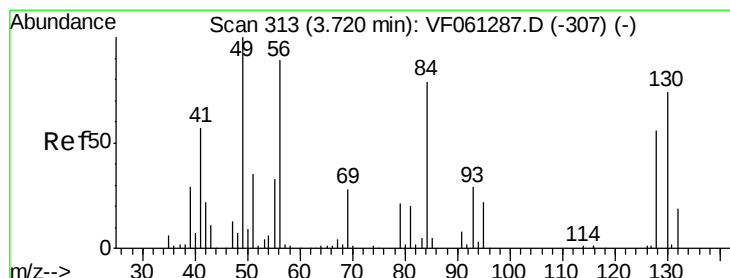
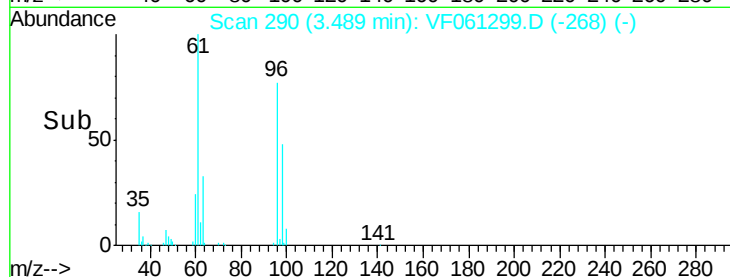
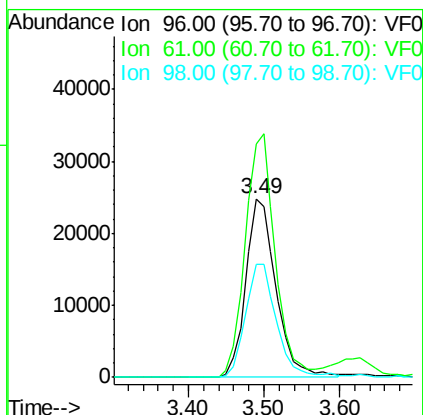
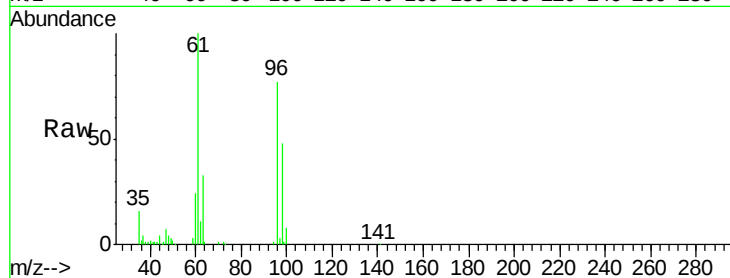


#27

cis-1,2-Dichloroethene
Concen: 19.136 ug/l
RT: 3.49 min Scan# 290
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD02

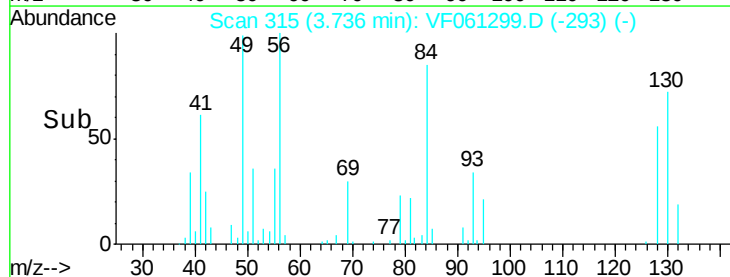
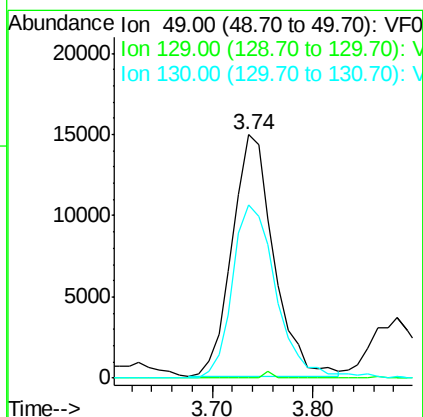
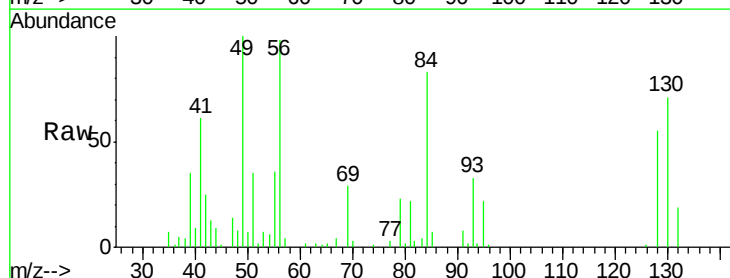
Tot Ion: 96 Resp: 69154
Ion Ratio Lower Upper
96 100
61 130.7 0.0 288.2
98 63.1 0.0 132.2

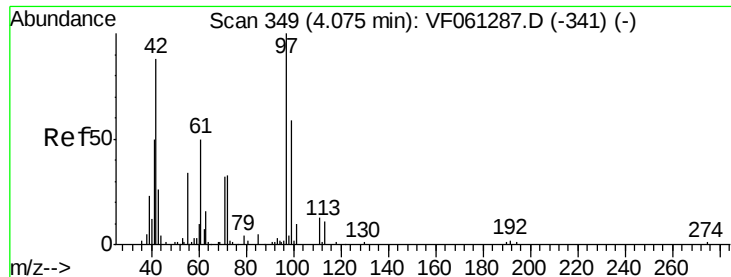


#28

Bromochloromethane
Concen: 19.392 ug/l
RT: 3.74 min Scan# 315
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion: 49 Resp: 42722
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 70.9 58.6 88.0





#29

Tetrahydrofuran

Concen: 111.269 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS02

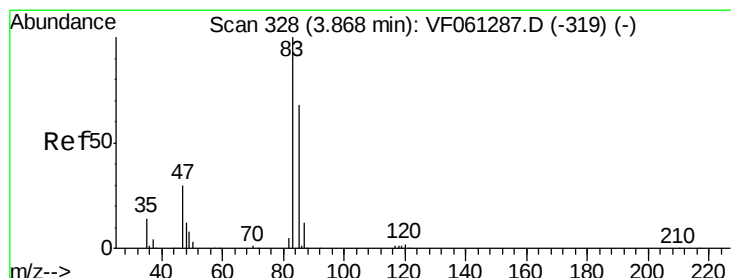
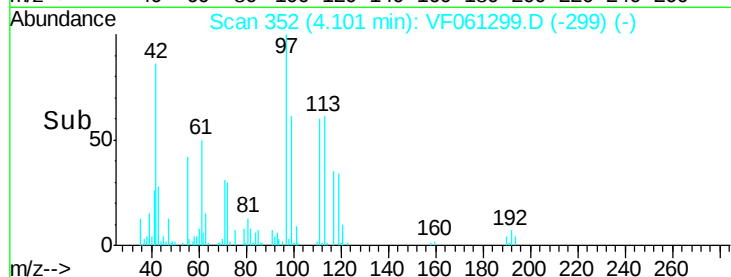
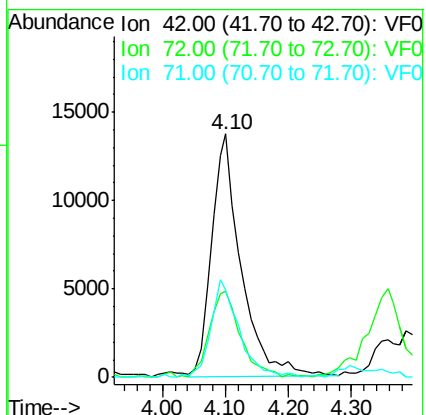
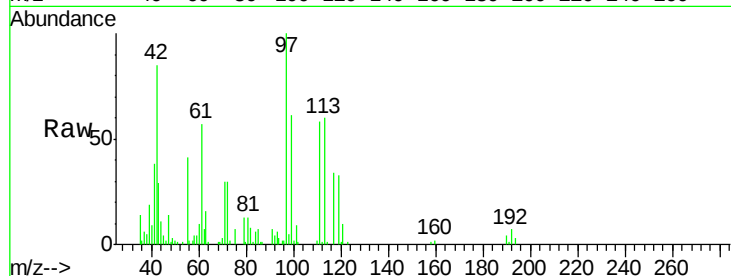
Tot Ion: 42 Resp: 45066

Ion Ratio Lower Upper

42 100

72 37.4 32.3 48.5

71 38.5 29.5 44.3



#30

Chloroform

Concen: 19.533 ug/l

RT: 3.88 min Scan# 330

Delta R.T. 0.02 min

Lab File: VF061299.D

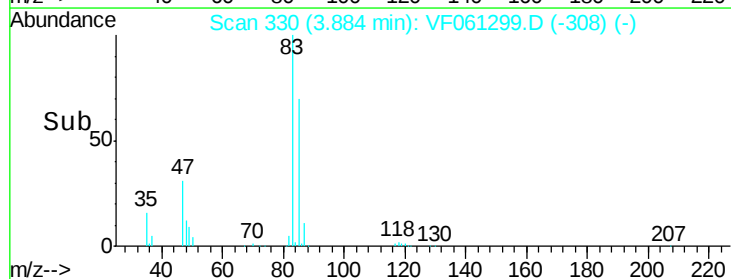
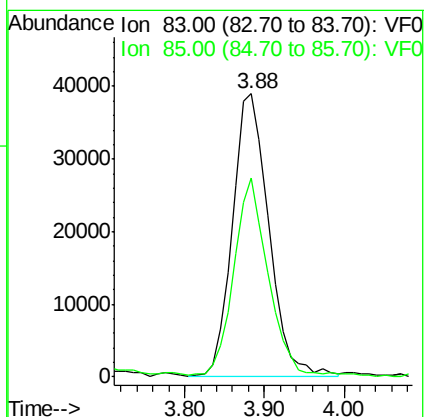
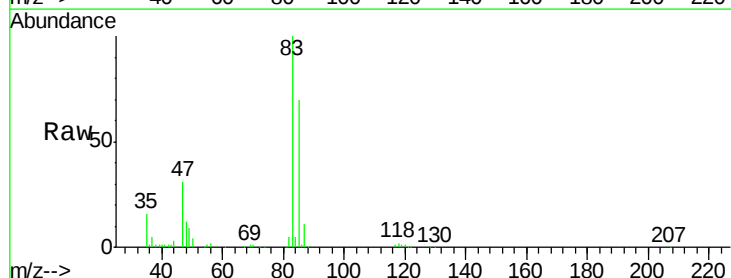
Acq: 9 Jan 2019 14:16

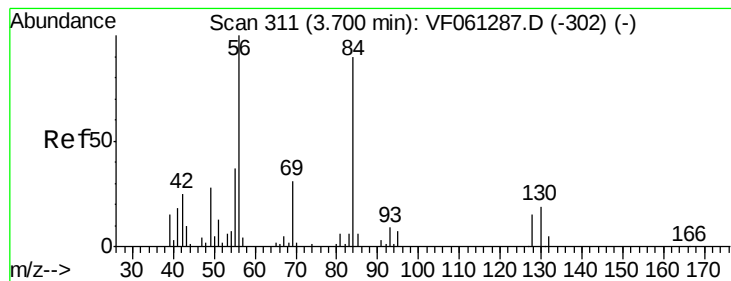
Tgt Ion: 83 Resp: 123895

Ion Ratio Lower Upper

83 100

85 70.1 54.4 81.6





#31

Cyclohexane

Concen: 20.163 ug/l

RT: 3.72 min Scan# 313

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD02

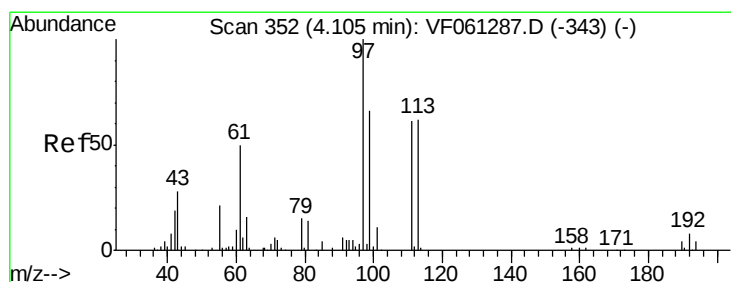
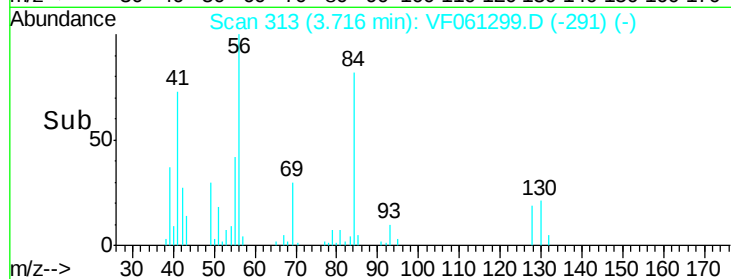
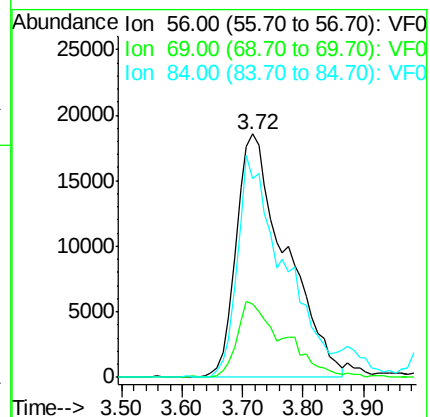
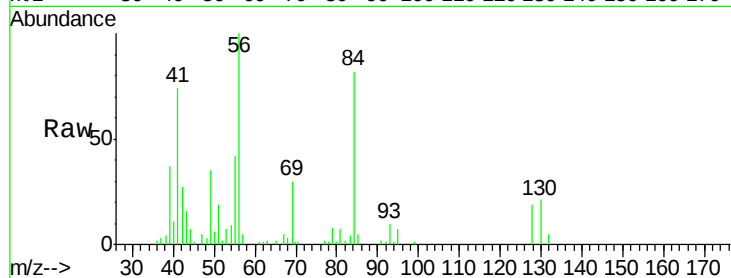
Tot Ion: 56 Resp: 105693

Ion Ratio Lower Upper

56 100

69 30.3 24.7 37.1

84 81.8 72.2 108.4



#32

1,1,1-Trichloroethane

Concen: 16.589 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

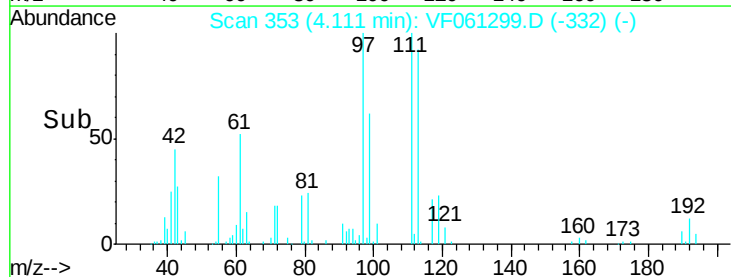
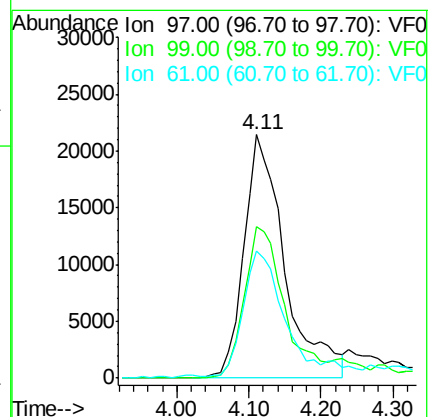
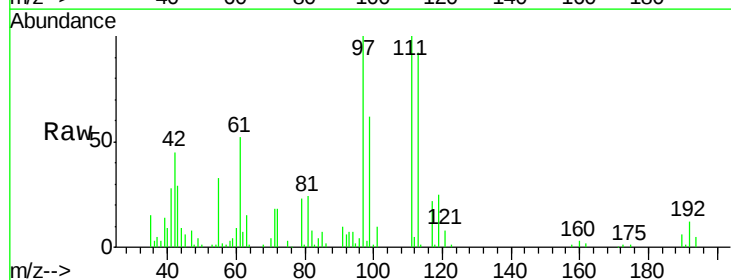
Tgt Ion: 97 Resp: 84991

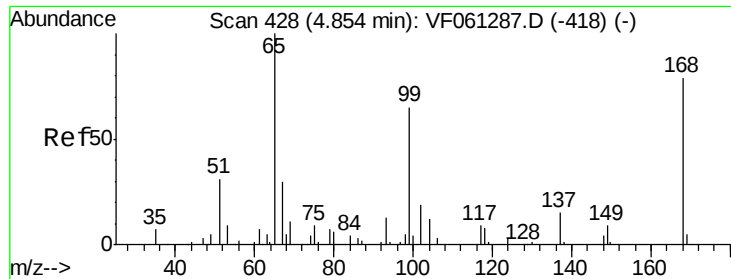
Ion Ratio Lower Upper

97 100

99 62.1 52.7 79.1

61 52.2 40.8 61.2

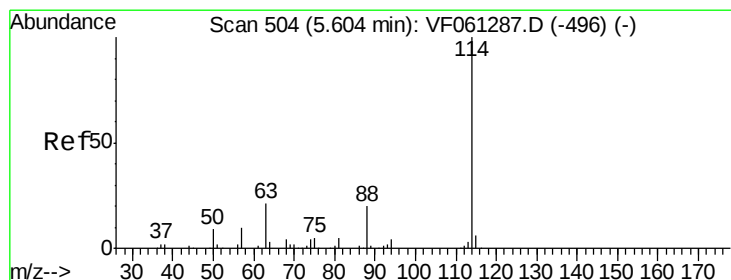
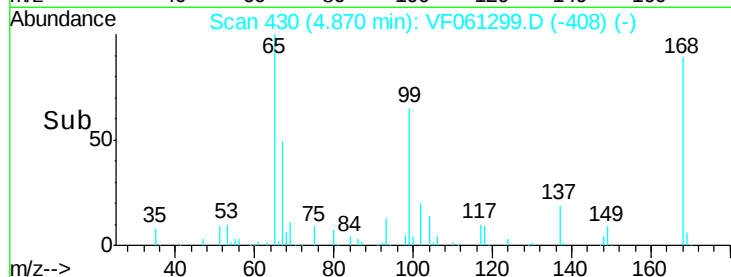
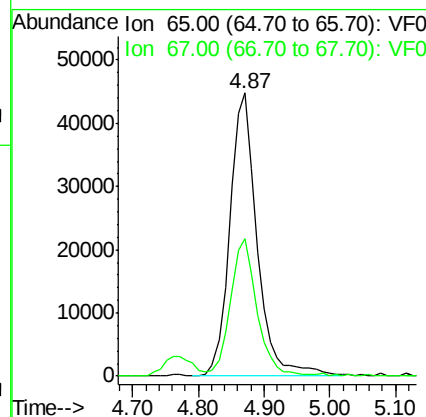
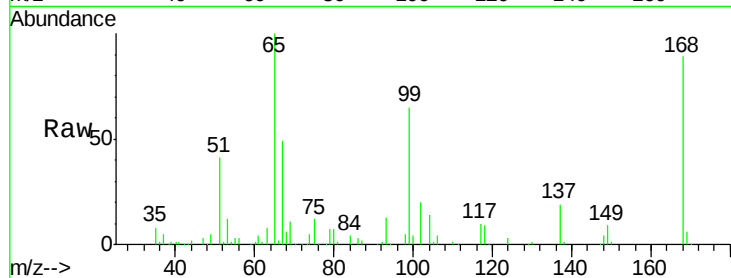




#33
 1,2-Dichloroethane-d4
 Concen: 50.280 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. 0.02 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

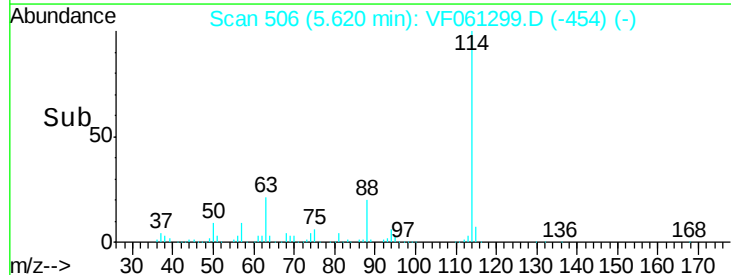
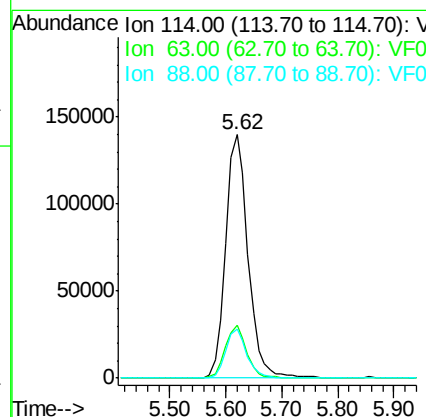
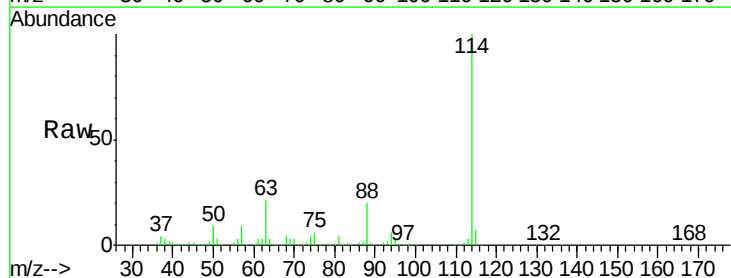
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS02

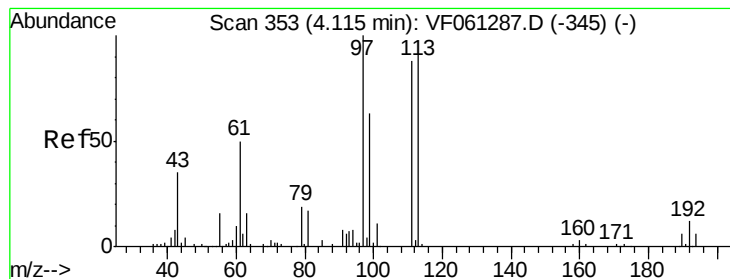
Tot Ion: 65 Resp: 130087
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.02 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Tgt Ion: 114 Resp: 389538
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 42.8
 88 19.9 0.0 40.0





#35

Dibromofluoromethane

Concen: 50.039 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD02

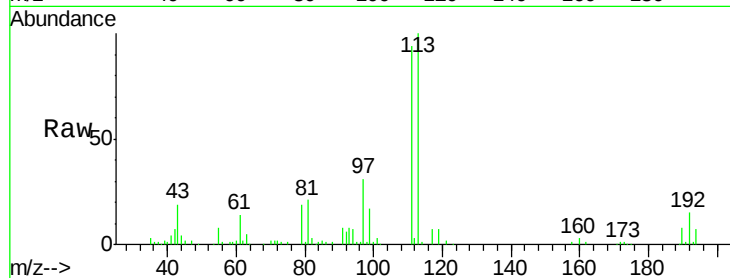
Tot Ion:113 Resp: 149148

Ion Ratio Lower Upper

113 100

111 93.8 78.0 117.0

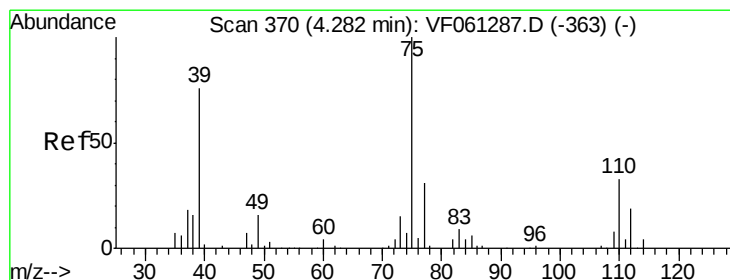
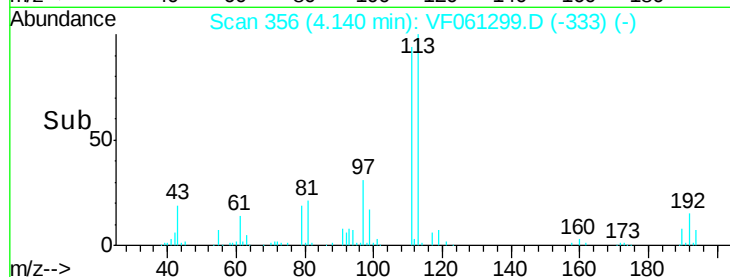
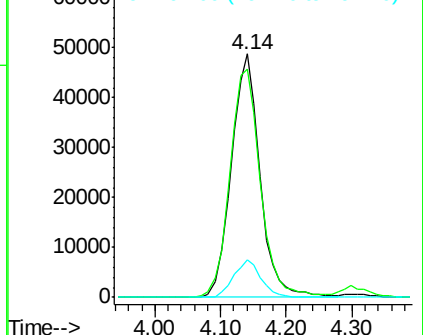
192 15.2 10.6 16.0



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: 20.999 ug/l

RT: 4.31 min Scan# 373

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

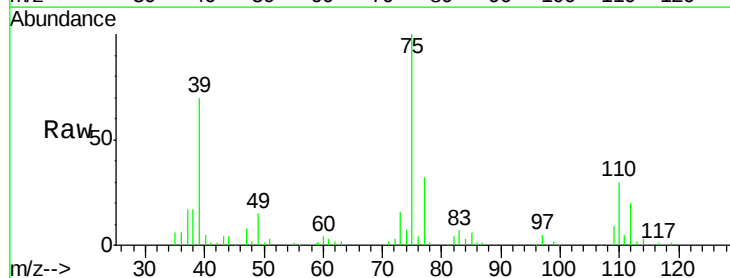
Tgt Ion: 75 Resp: 95519

Ion Ratio Lower Upper

75 100

110 30.3 16.6 49.8

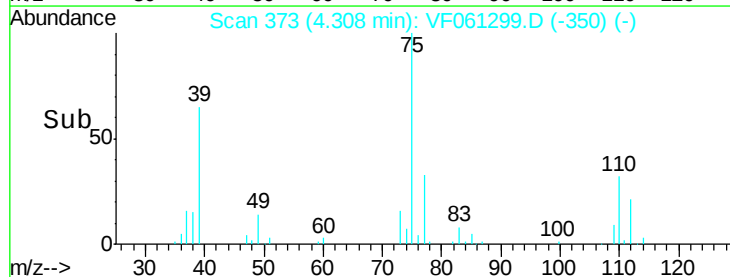
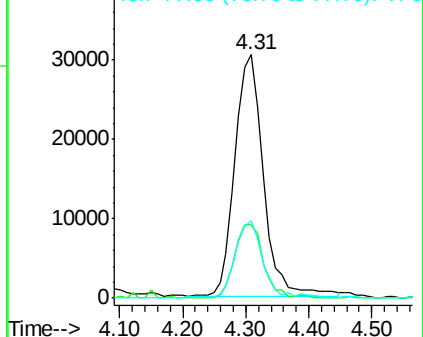
77 31.7 25.1 37.7

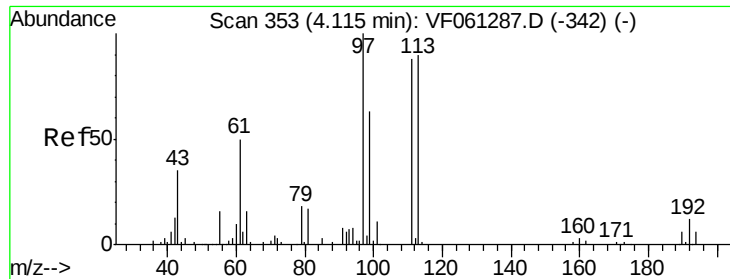


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

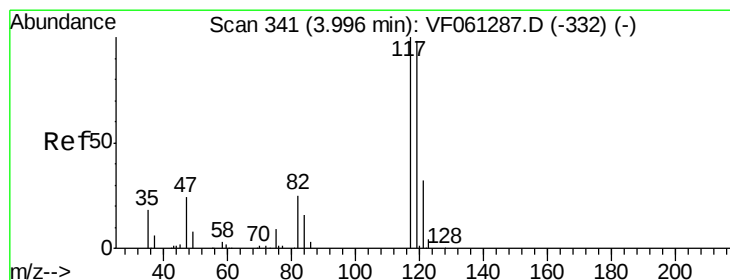
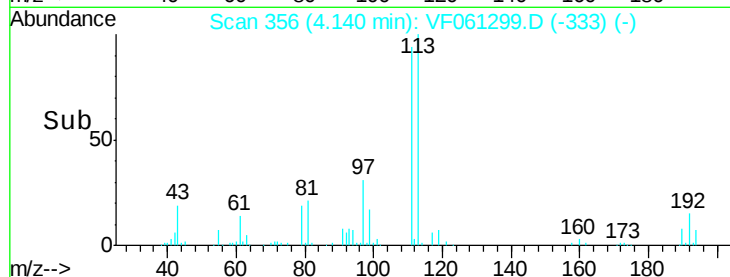
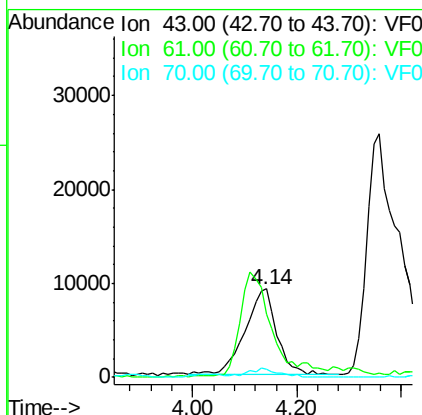
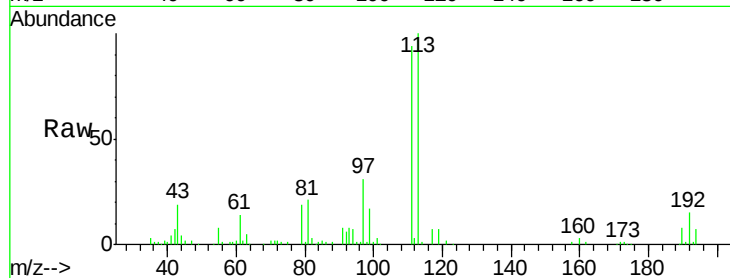




#37
Ethyl Acetate
Concen: 23.172 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.03 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

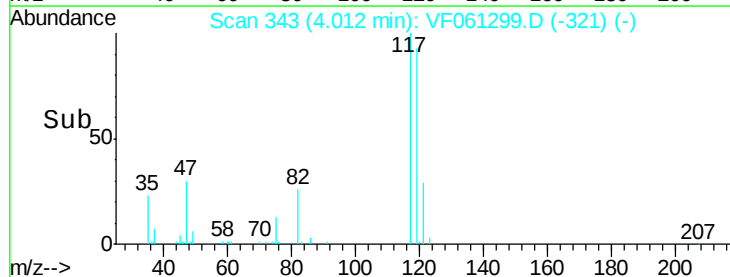
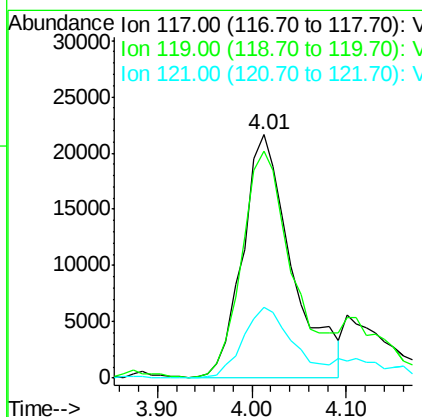
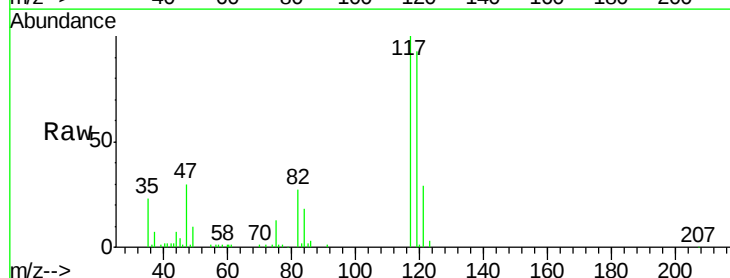
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD02

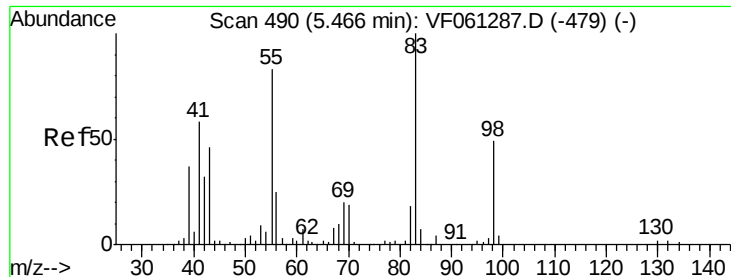
Tot Ion: 43 Resp: 38385
Ion Ratio Lower Upper
43 100
61 71.9 113.3 169.9#
70 8.8 9.4 14.0#



#38
Carbon Tetrachloride
Concen: 18.221 ug/l
RT: 4.01 min Scan# 343
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion: 117 Resp: 78502
Ion Ratio Lower Upper
117 100
119 93.2 78.5 117.7
121 29.3 25.3 37.9

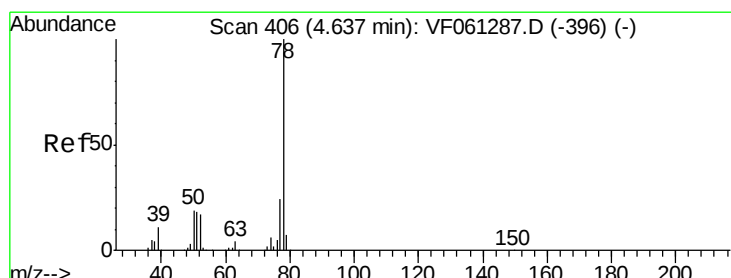
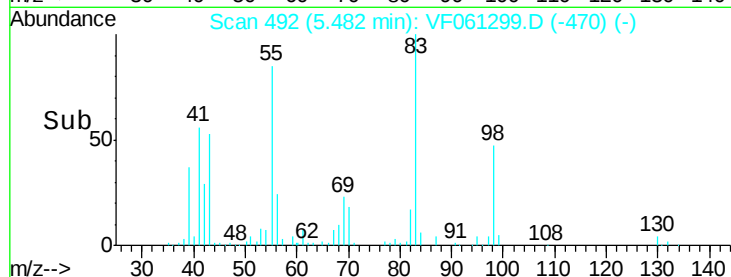
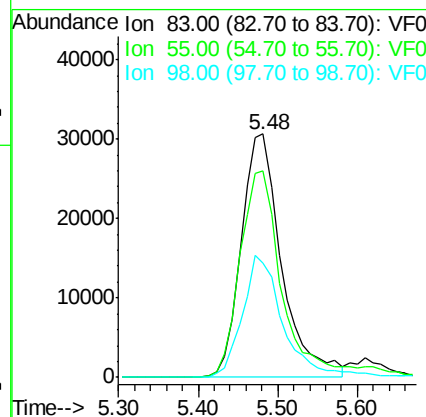
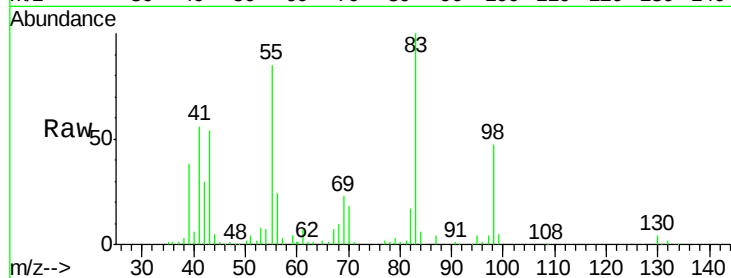




#39
Methvlcvclohexane
Concen: 18.891 ug/l
RT: 5.48 min Scan# 492
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

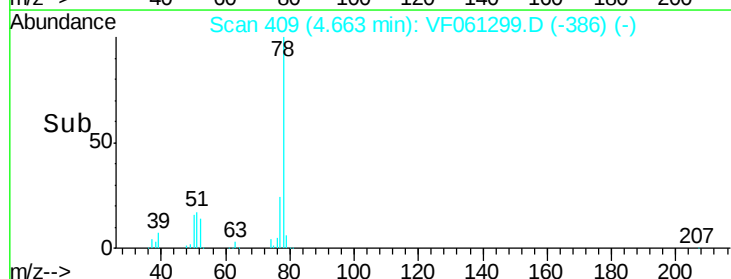
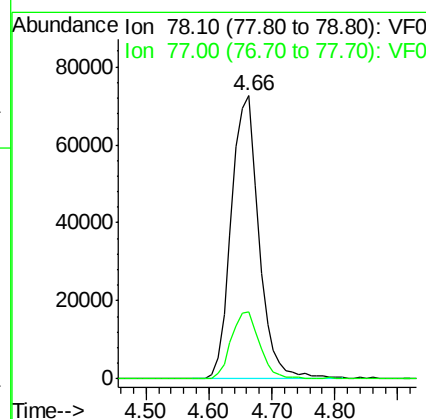
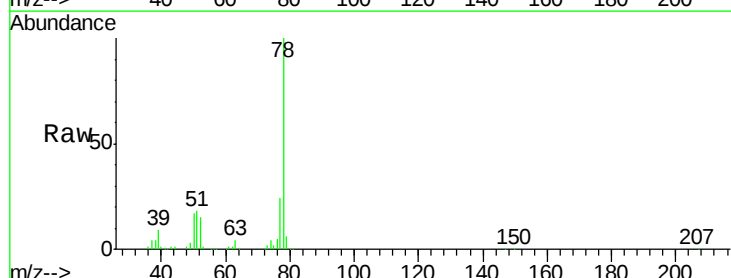
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD02

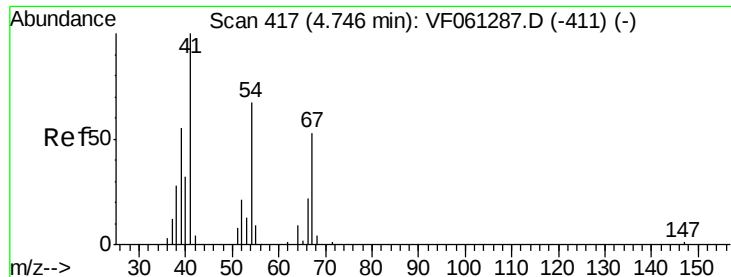
Tot Ion: 83 Resp: 107521
Ion Ratio Lower Upper
83 100
55 85.0 66.4 99.6
98 47.1 39.1 58.7



#40
Benzene
Concen: 20.853 ug/l
RT: 4.66 min Scan# 409
Delta R.T. 0.03 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion: 78 Resp: 221459
Ion Ratio Lower Upper
78 100
77 23.8 19.1 28.7

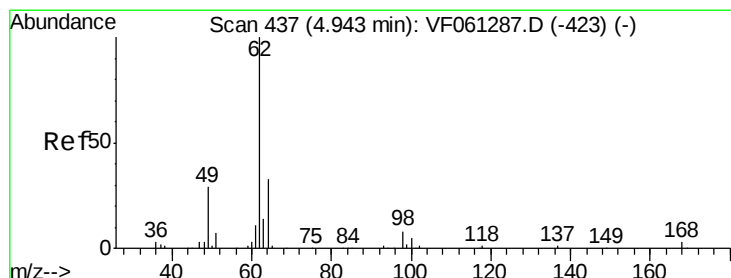
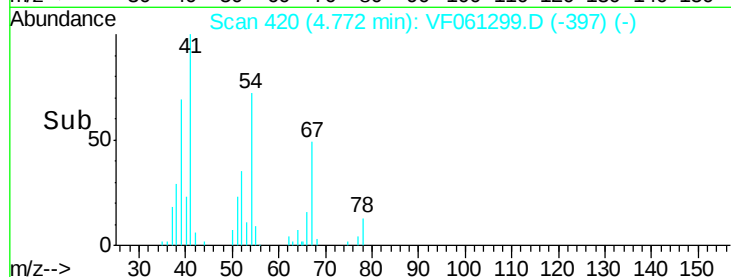
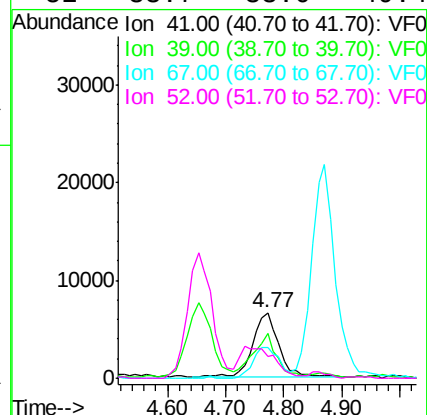
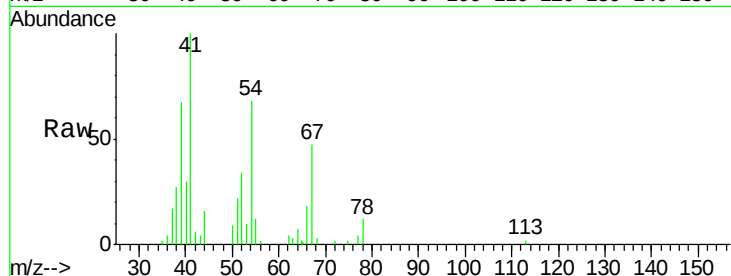




#41
Methacrylonitrile
Concen: 22.748 ug/l
RT: 4.77 min Scan# 420
Delta R.T. 0.03 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

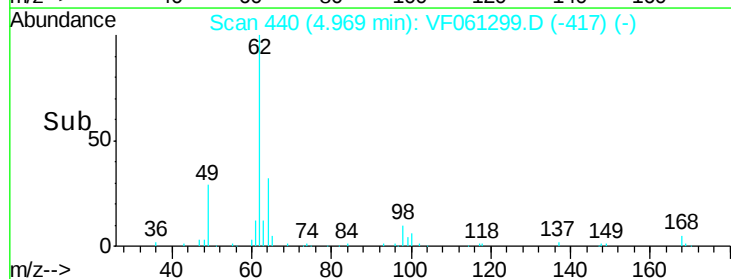
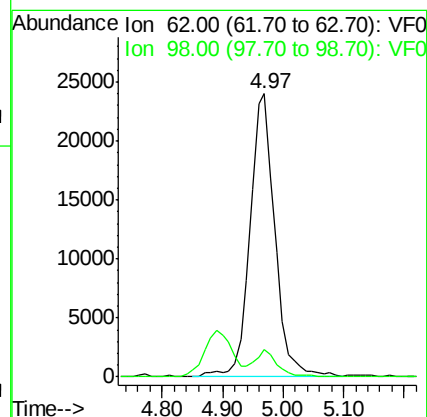
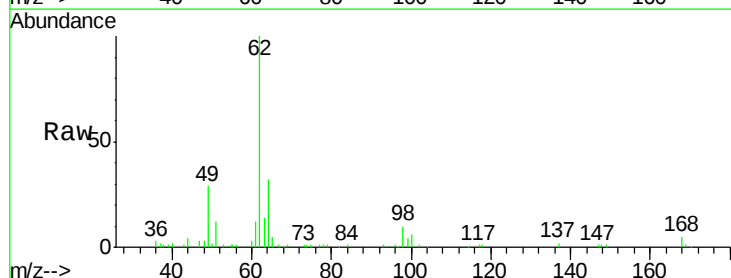
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD02

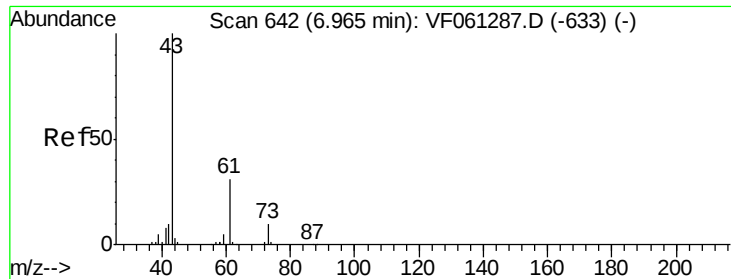
Tot Ion:	41	Resp:	21043
Ion	Ratio	Lower	Upper
41	100		
39	67.5	52.7	79.1
67	47.0	41.4	62.2
52	33.7	33.0	49.4



#42
1,2-Dichloroethane
Concen: 20.743 ug/l
RT: 4.97 min Scan# 440
Delta R.T. 0.03 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion:	62	Resp:	68584
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	16.8



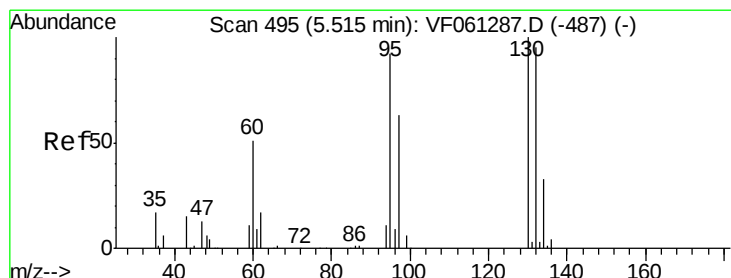
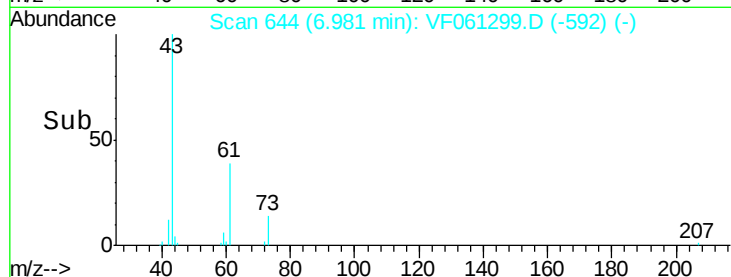
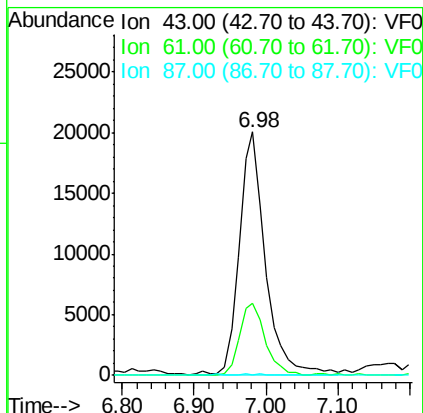
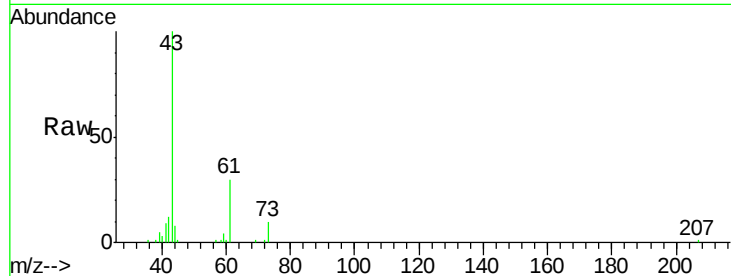


#43

Isopropyl Acetate
 Concen: 23.335 ug/l
 RT: 6.98 min Scan# 644
 Delta R.T. 0.02 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS02

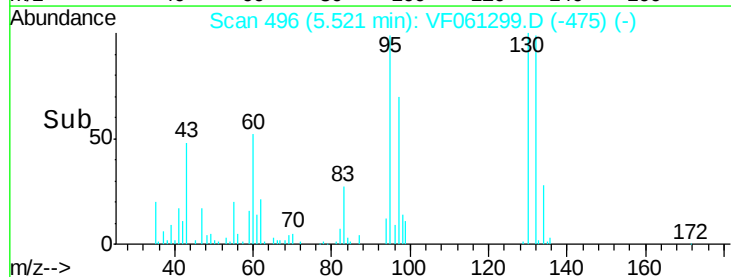
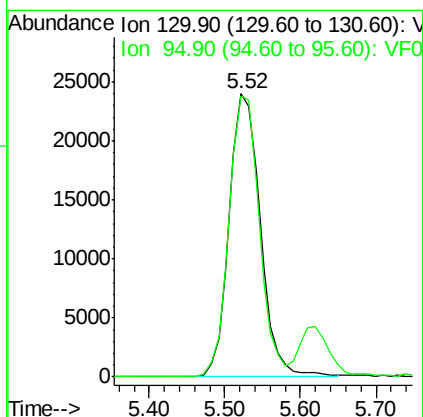
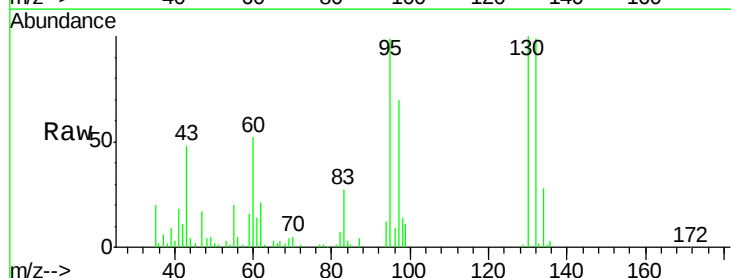
Tot Ion: 43 Resp: 51033
 Ion Ratio Lower Upper
 43 100
 61 29.7 24.3 36.5
 87 0.0 0.2 0.4#

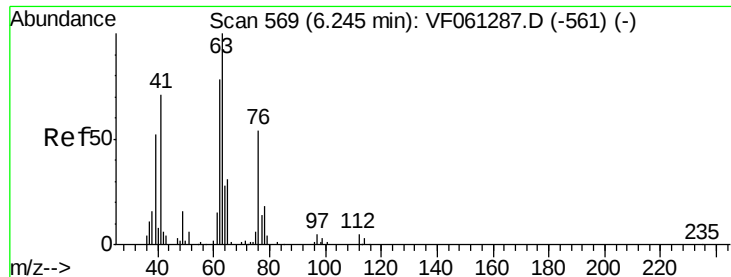


#44

Trichloroethene
 Concen: 21.983 ug/l
 RT: 5.52 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Tgt Ion: 130 Resp: 68324
 Ion Ratio Lower Upper
 130 100
 95 99.4 0.0 184.4





#45

1,2-Dichloropropane

Concen: 20.104 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

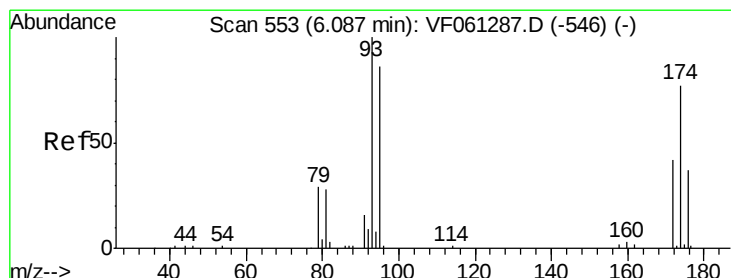
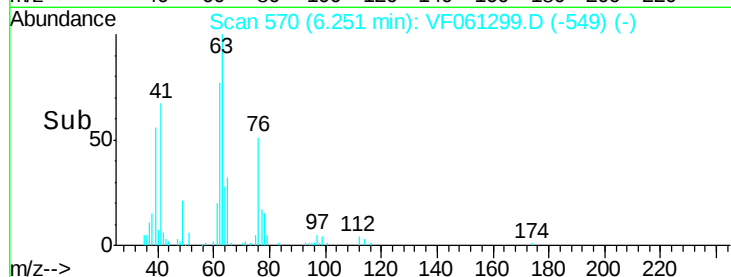
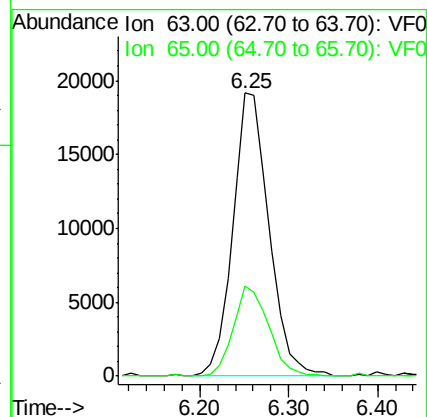
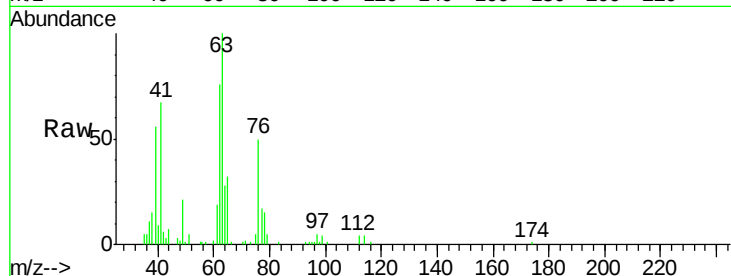
VF0109SBSD02

Tot Ion: 63 Resp: 54295

Ion Ratio Lower Upper

63 100

65 32.0 25.1 37.7



#46

Dibromomethane

Concen: 21.302 ug/l

RT: 6.11 min Scan# 556

Delta R.T. 0.03 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

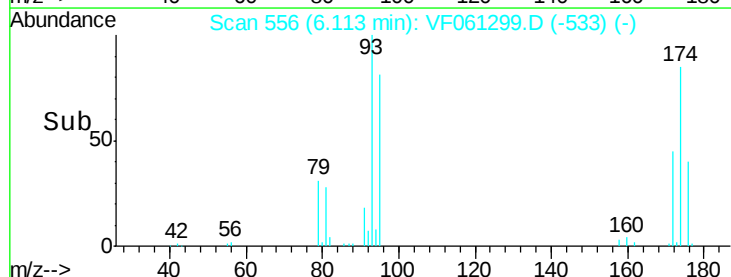
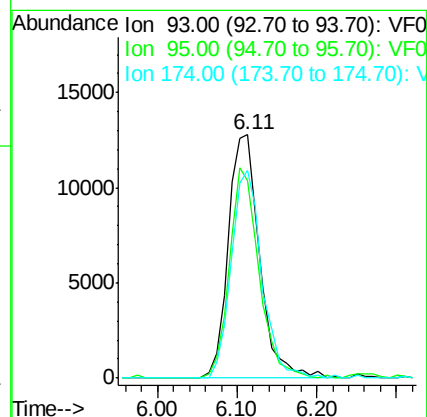
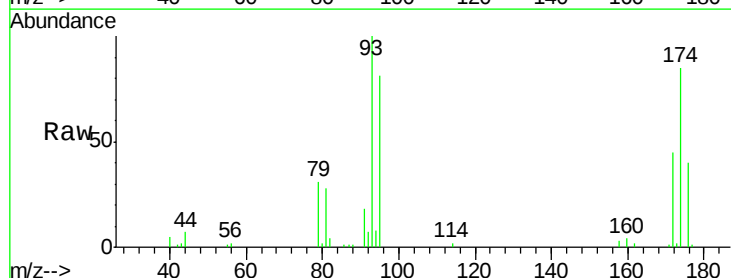
Tgt Ion: 93 Resp: 35322

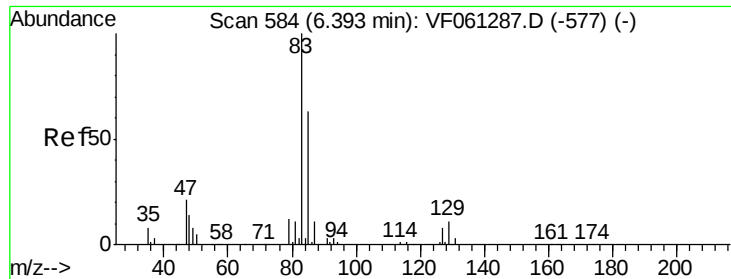
Ion Ratio Lower Upper

93 100

95 81.4 68.8 103.2

174 85.2 62.9 94.3





#47

Bromodichloromethane

Concen: 20.678 ug/l

RT: 6.41 min Scan# 586

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS02

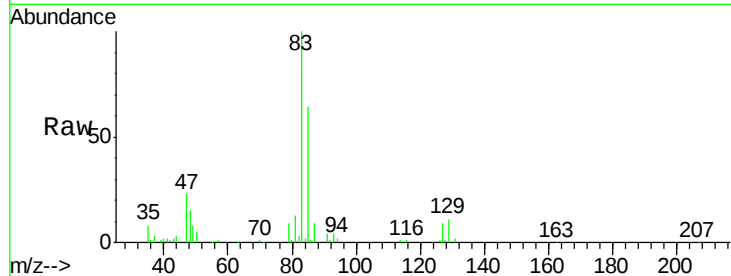
Tot Ion: 83 Resp: 85273

Ion Ratio Lower Upper

83 100

85 63.6 50.4 75.6

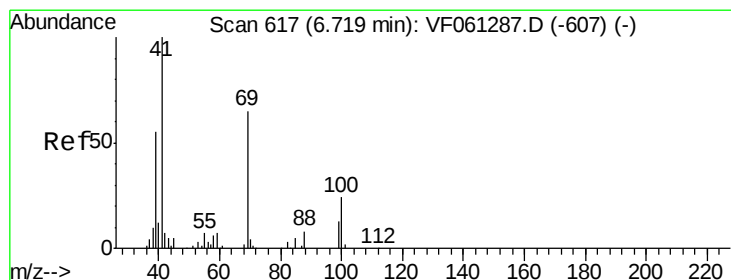
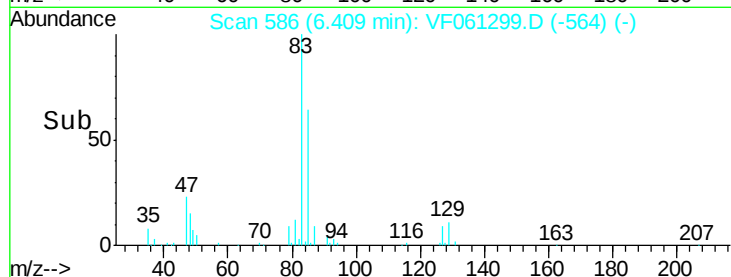
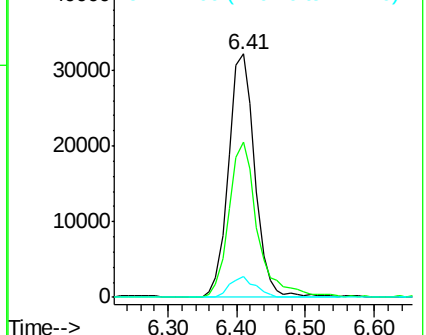
127 8.8 6.4 9.6



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: 21.372 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

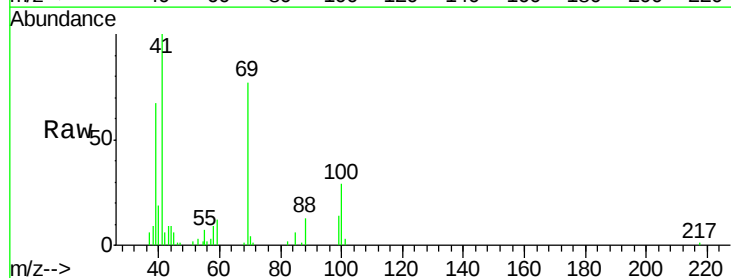
Tgt Ion: 41 Resp: 30339

Ion Ratio Lower Upper

41 100

69 76.6 51.5 77.3

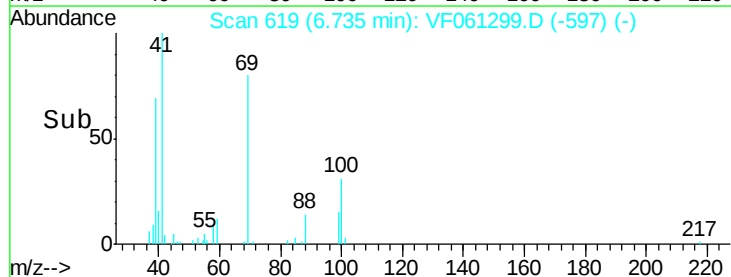
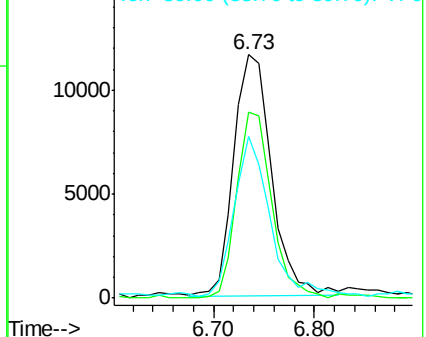
39 66.6 44.1 66.1#

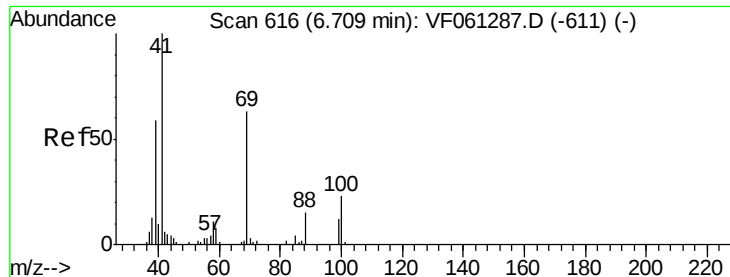


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

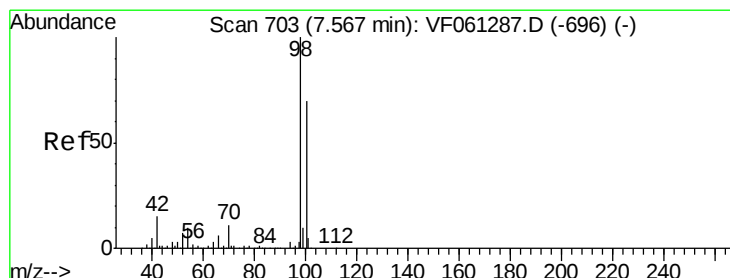
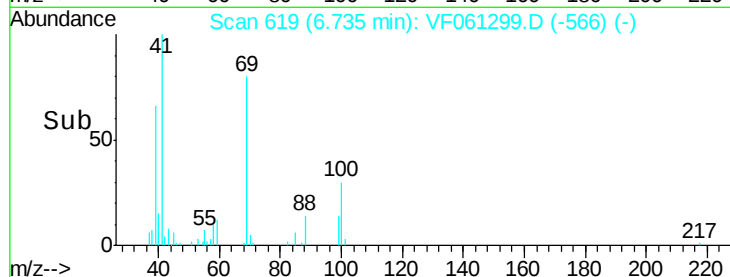
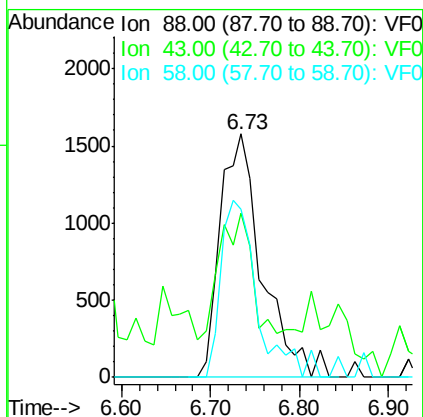
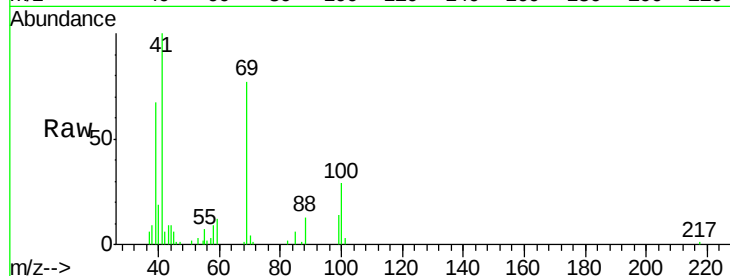




#49
1,4-Dioxane
Concen: 579.416 ug/l
RT: 6.73 min Scan# 619
Delta R.T. 0.03 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

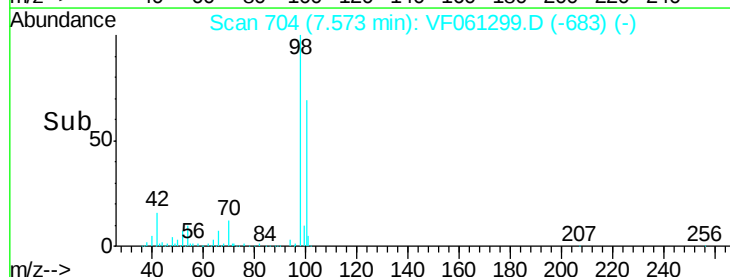
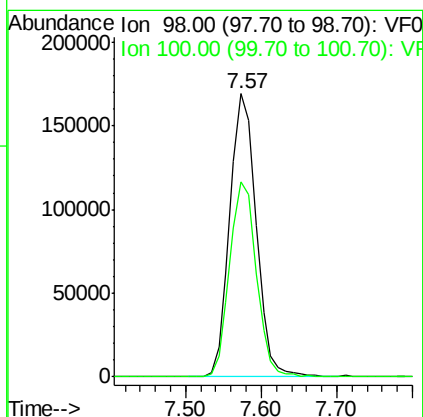
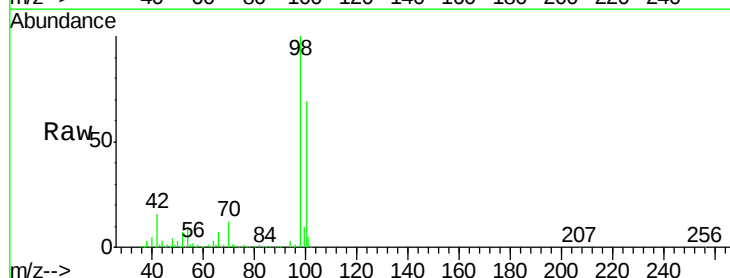
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

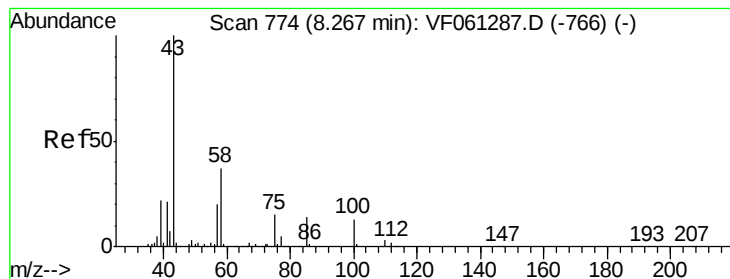
Tot Ion: 88 Resp: 5190
Ion Ratio Lower Upper
88 100
43 67.6 38.5 57.7#
58 68.9 57.0 85.4



#50
Toluene-d8
Concen: 46.466 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion: 98 Resp: 409847
Ion Ratio Lower Upper
98 100
100 69.0 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 111.771 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

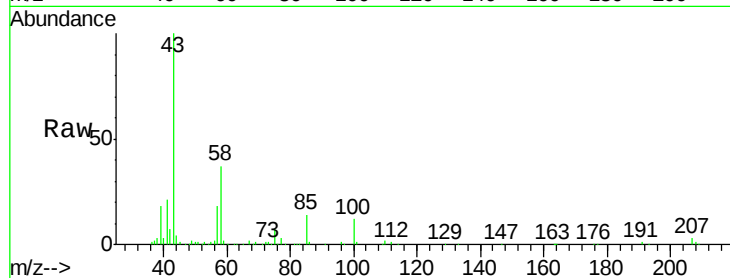
VF0109SBS02

Tot Ion: 43 Resp: 184505

Ion Ratio Lower Upper

43 100

58 36.5 29.6 44.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

80000

60000

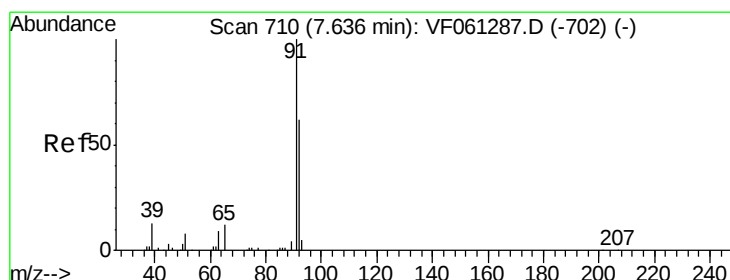
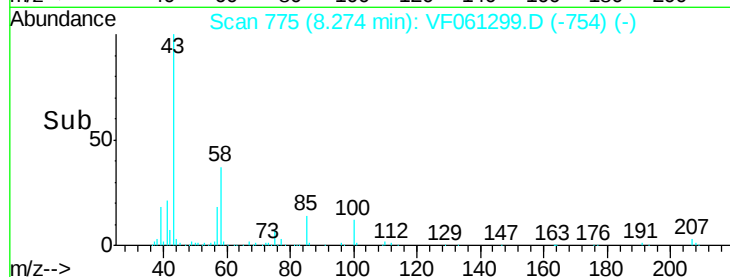
40000

20000

0

8.20 8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 19.103 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061299.D

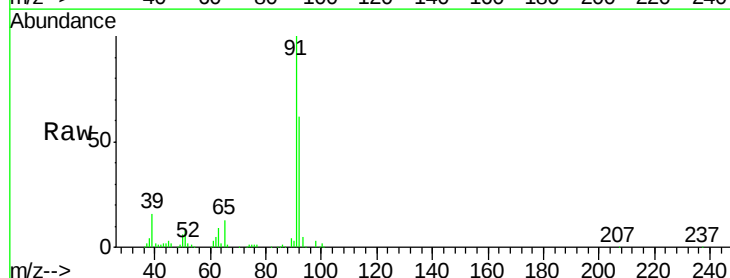
Acq: 9 Jan 2019 14:16

Tgt Ion: 92 Resp: 130400

Ion Ratio Lower Upper

92 100

91 162.2 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.64

100000

80000

60000

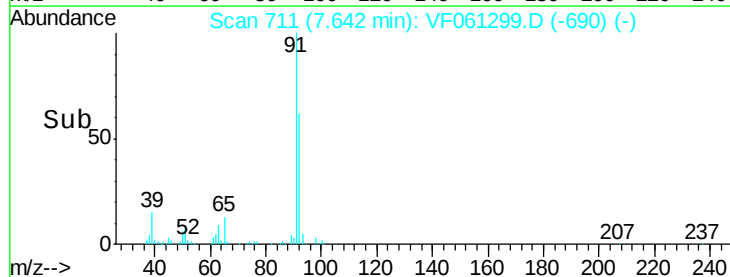
40000

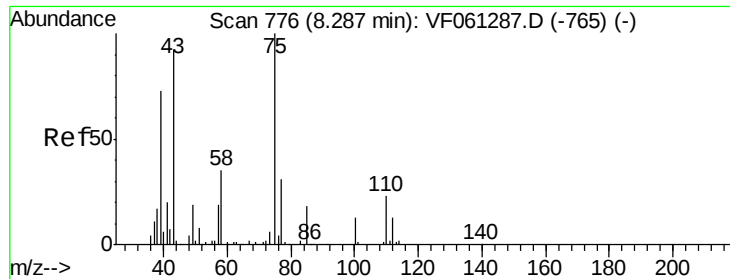
20000

0

7.50 7.60 7.70 7.80

Time-->

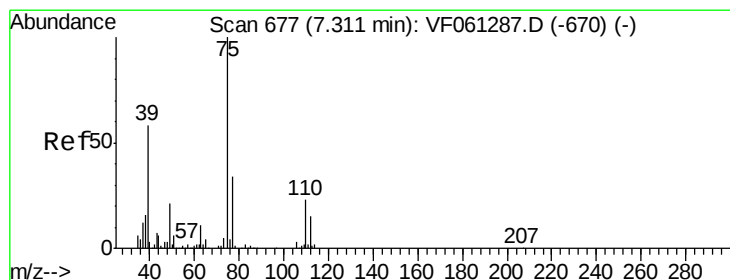
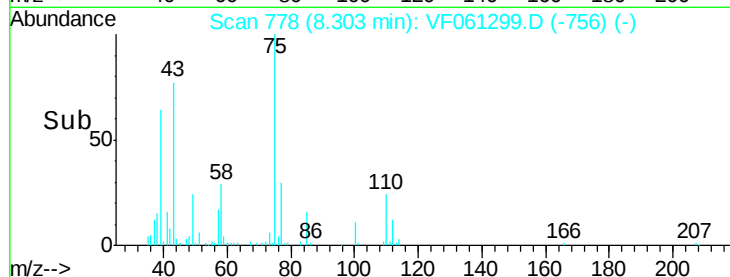
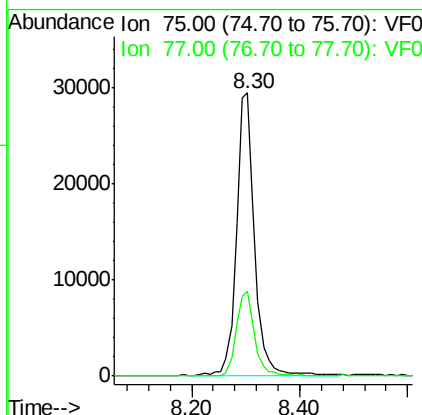
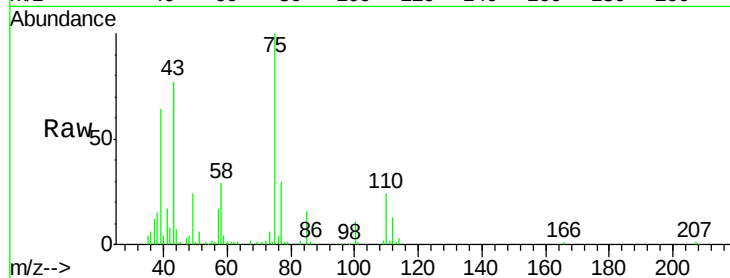




#53
 t-1,3-Dichloropropene
 Concen: 21.566 ug/l
 RT: 8.30 min Scan# 778
 Delta R.T. 0.02 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

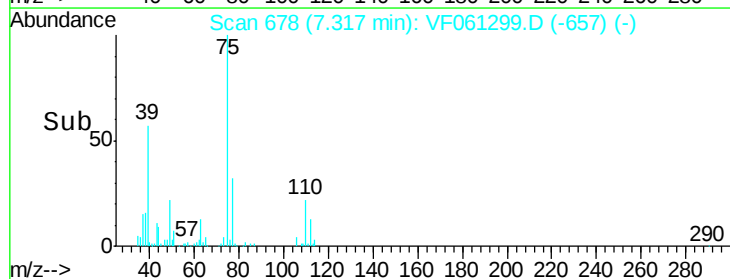
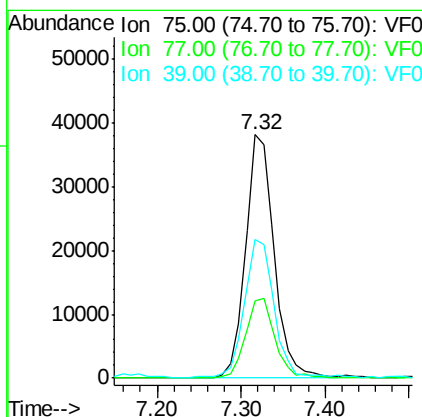
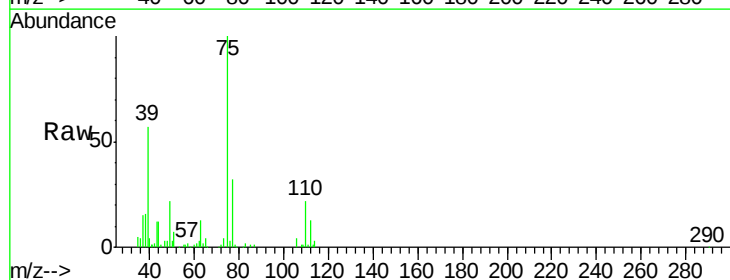
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS02

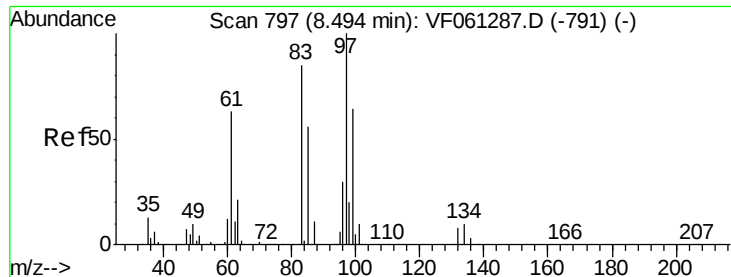
Tot Ion: 75 Resp: 69843
 Ion Ratio Lower Upper
 75 100
 77 30.1 24.7 37.1



#54
 cis-1,3-Dichloropropene
 Concen: 21.204 ug/l
 RT: 7.32 min Scan# 678
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Tgt Ion: 75 Resp: 91053
 Ion Ratio Lower Upper
 75 100
 77 31.7 27.3 40.9
 39 57.1 46.3 69.5



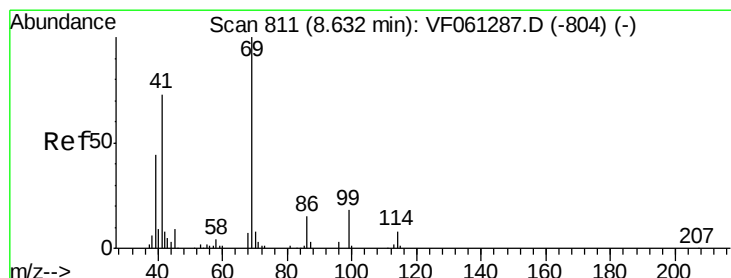
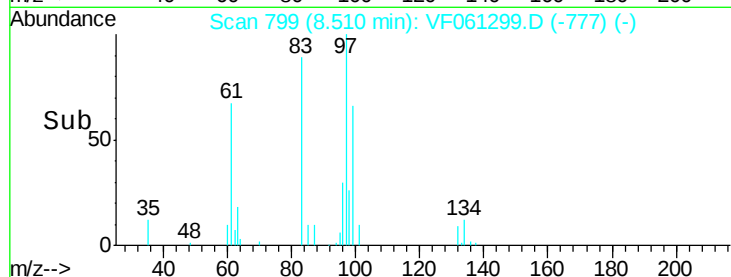
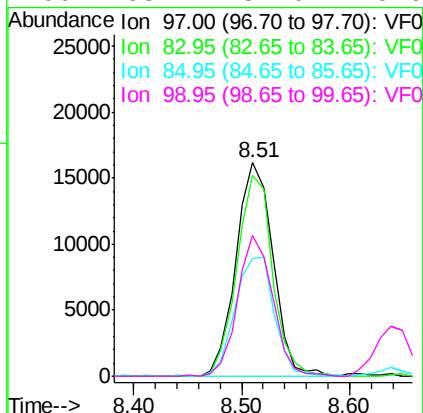
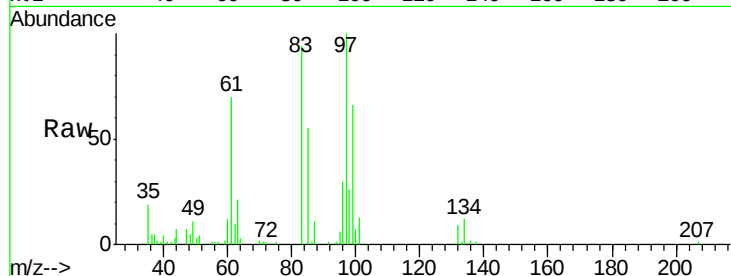


#55
 1,1,2-Trichloroethane
 Concen: 20.213 ug/l
 RT: 8.51 min Scan# 799
 Delta R.T. 0.02 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS02

Tot Ion: 97 Resp: 38609

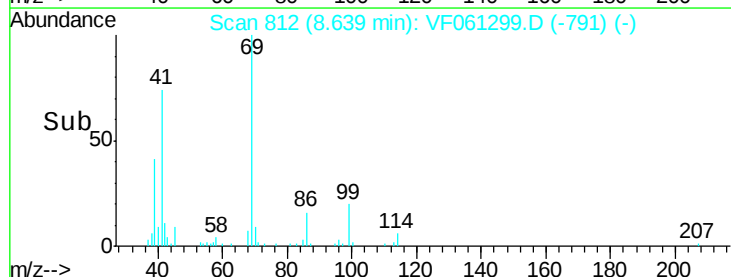
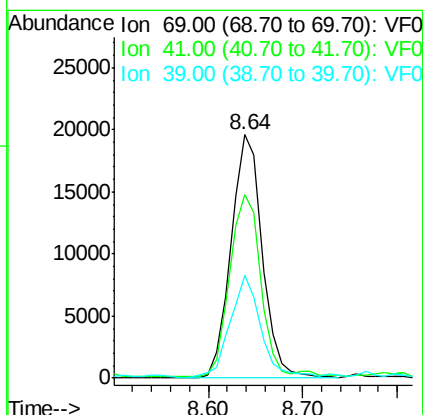
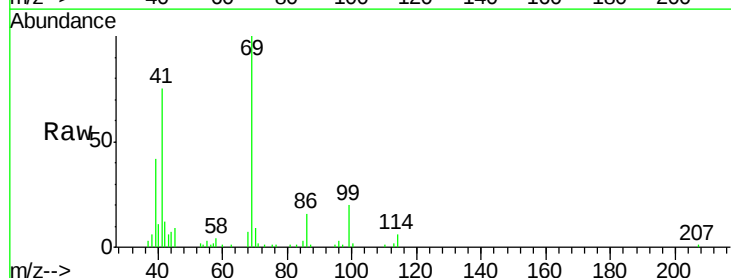
Ion	Ratio	Lower	Upper
97	100		
83	93.8	67.8	101.6
85	55.2	45.1	67.7
99	65.7	51.0	76.6

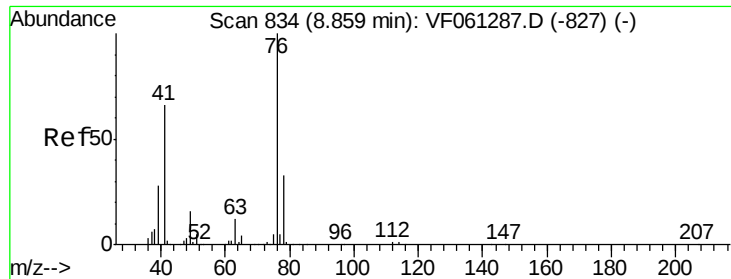


#56
 Ethyl methacrylate
 Concen: 20.959 ug/l
 RT: 8.64 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Tgt Ion: 69 Resp: 44745

Ion	Ratio	Lower	Upper
69	100		
41	75.4	59.0	88.4
39	42.0	35.3	52.9





#57

1,3-Dichloropropane

Concen: 20.680 ug/l

RT: 8.88 min Scan# 836

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

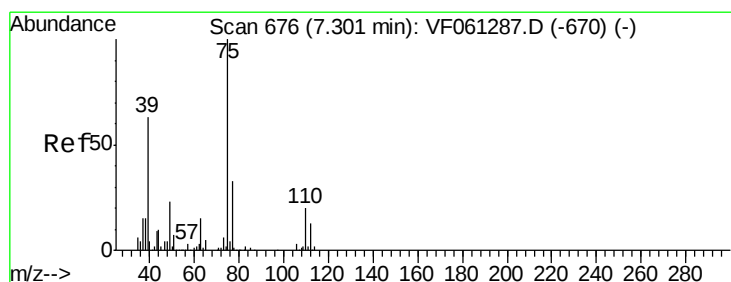
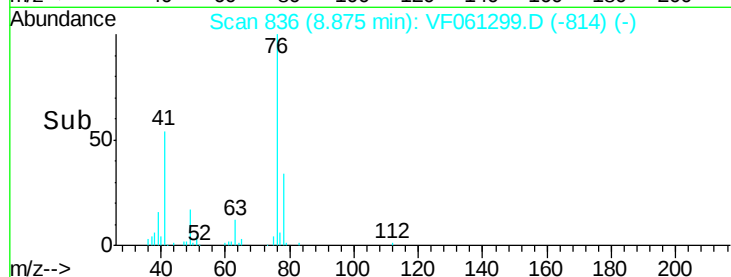
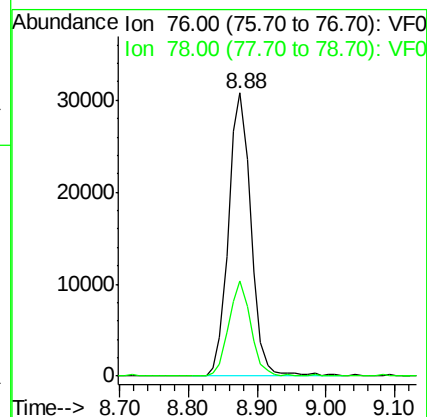
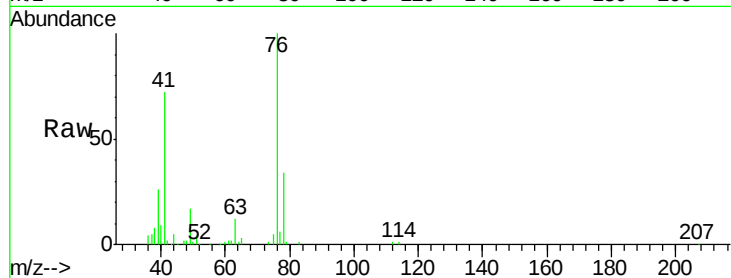
VF0109SBSD02

Tot Ion: 76 Resp: 69910

Ion Ratio Lower Upper

76 100

78 33.7 26.8 40.2



#58

2-Chloroethyl Vinyl ether

Concen: 125.539 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.02 min

Lab File: VF061299.D

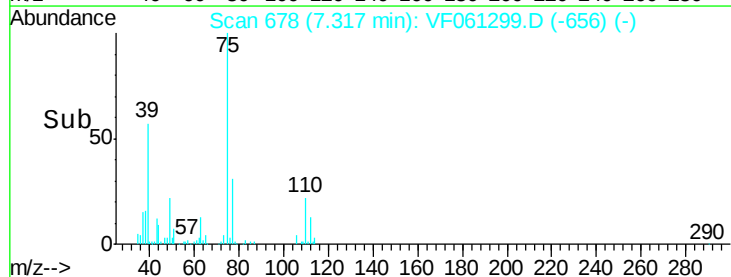
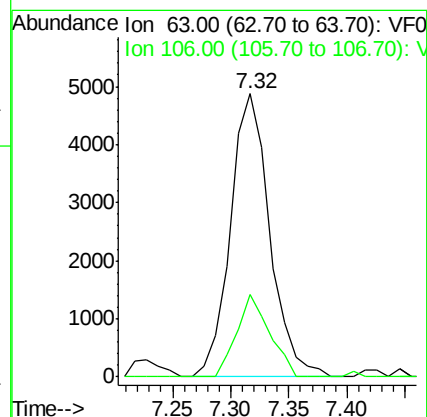
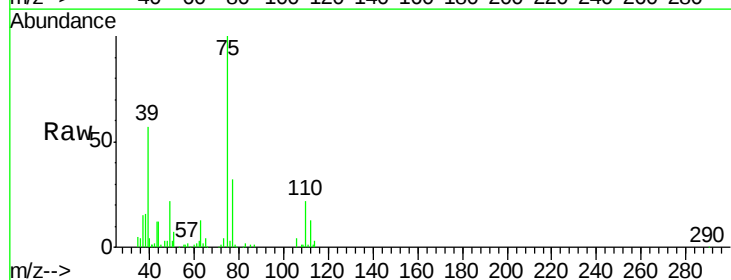
Acq: 9 Jan 2019 14:16

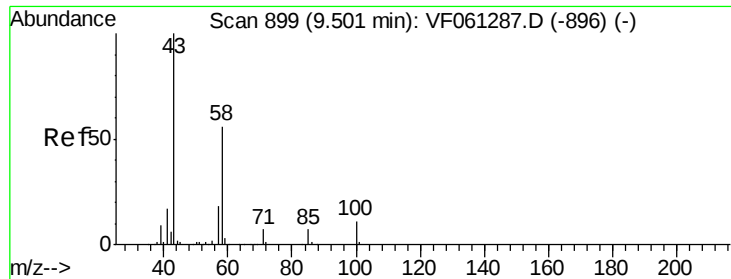
Tgt Ion: 63 Resp: 11421

Ion Ratio Lower Upper

63 100

106 29.1 16.5 24.7#





#59

2-Hexanone

Concen: 113.436 ug/l

RT: 9.52 min Scan# 901

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

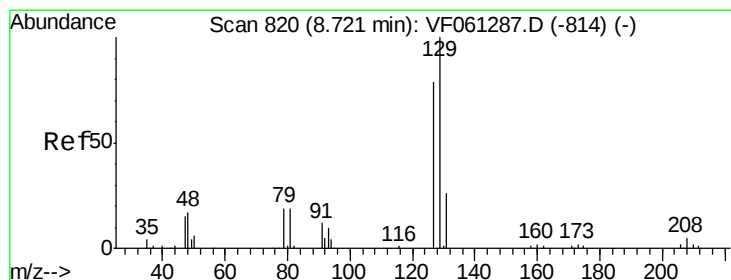
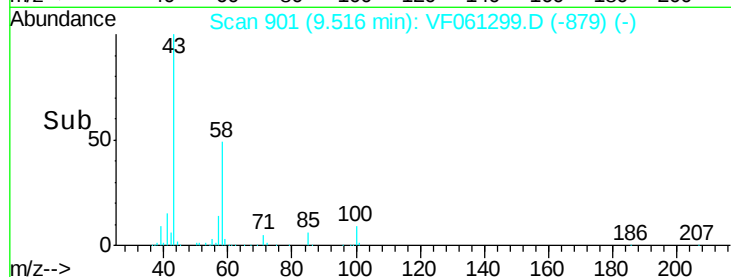
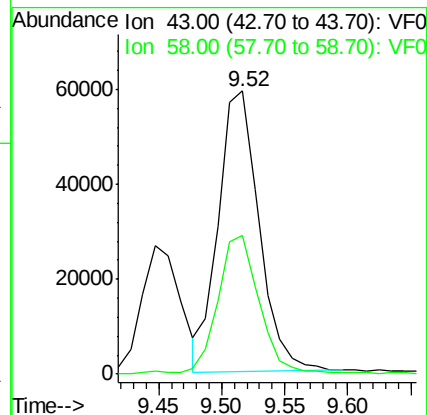
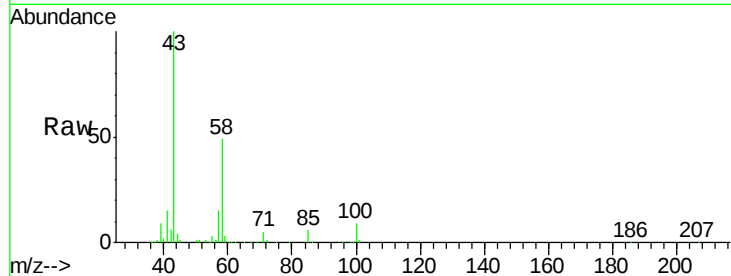
VF0109SBSD02

Tot Ion: 43 Resp: 132660

Ion Ratio Lower Upper

43 100

58 48.8 25.6 76.8



#60

Dibromochloromethane

Concen: 20.200 ug/l

RT: 8.74 min Scan# 822

Delta R.T. 0.02 min

Lab File: VF061299.D

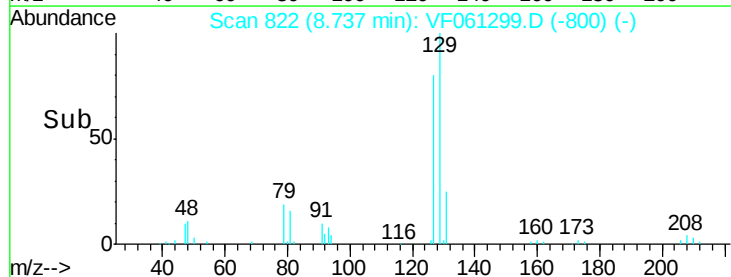
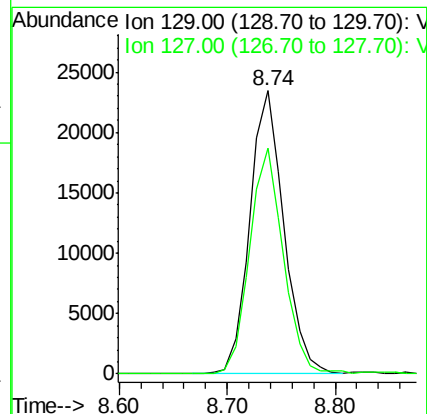
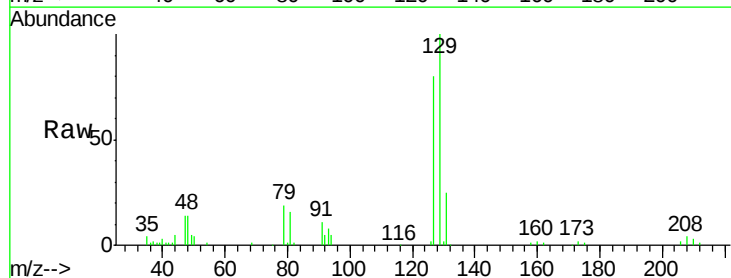
Acq: 9 Jan 2019 14:16

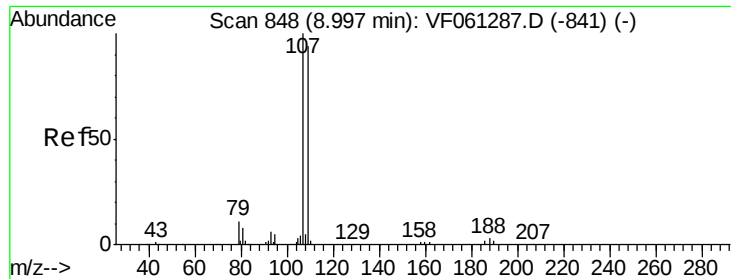
Tgt Ion:129 Resp: 51380

Ion Ratio Lower Upper

129 100

127 79.6 39.4 118.1





#61

1,2-Dibromoethane

Concen: 20.716 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

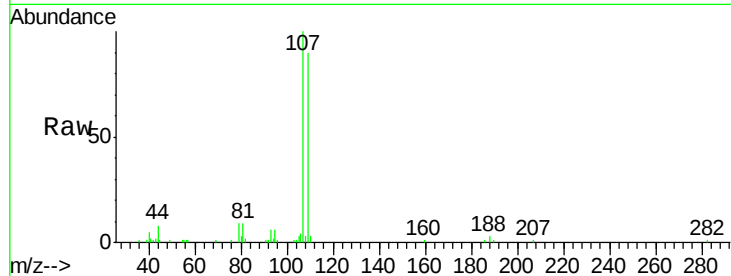
VF0109SBS02

Tot Ion:107 Resp: 40336

Ion Ratio Lower Upper

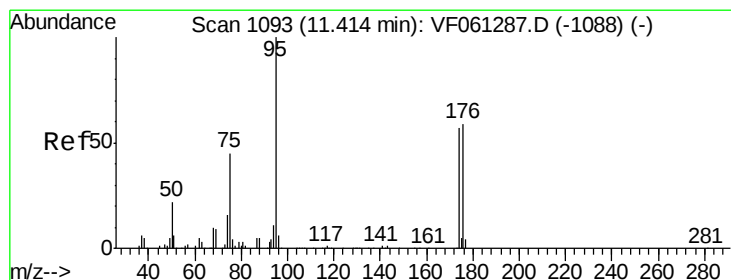
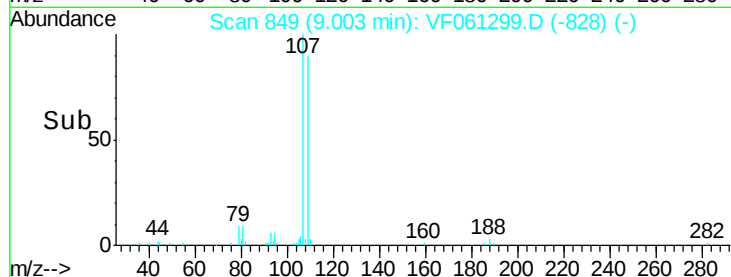
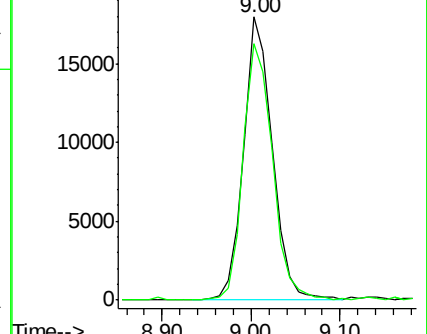
107 100

109 90.4 75.1 112.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 46.874 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

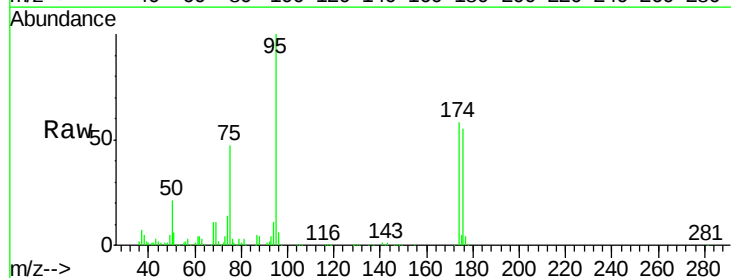
Tgt Ion: 95 Resp: 180537

Ion Ratio Lower Upper

95 100

174 57.6 0.0 114.2

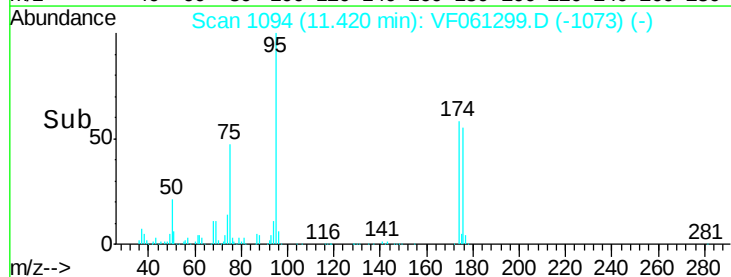
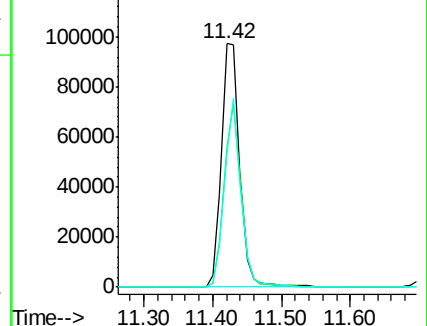
176 55.2 0.0 117.8

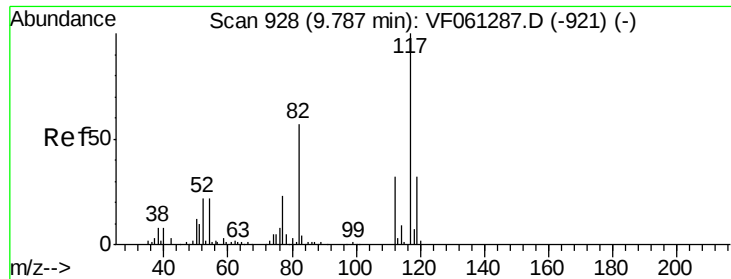


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

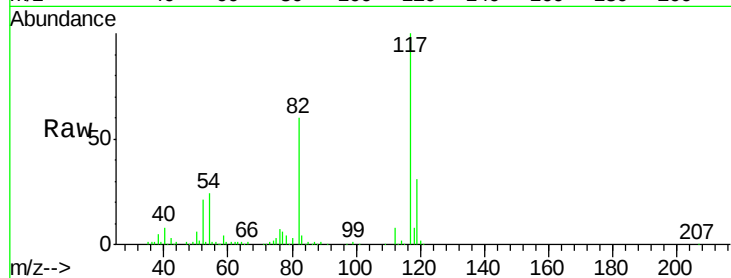




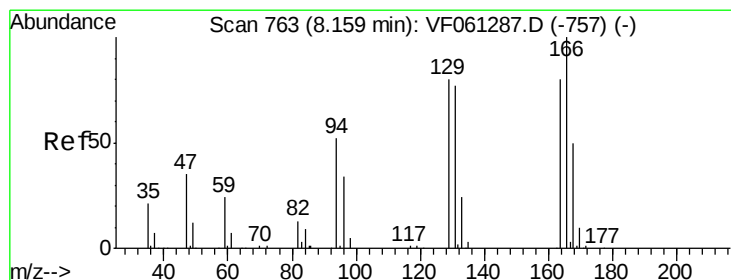
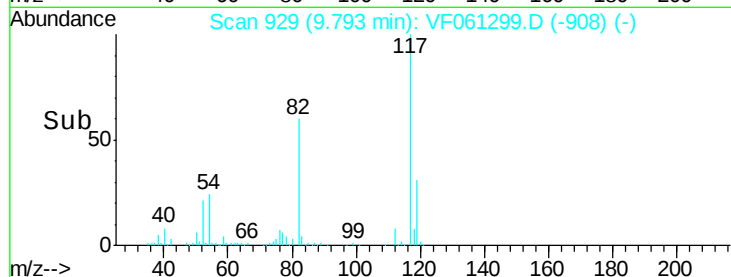
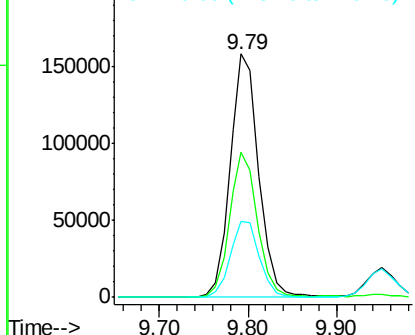
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD02

Tot Ion:117 Resp: 355276
Ion Ratio Lower Upper
117 100
82 59.7 45.3 67.9
119 31.4 25.4 38.0

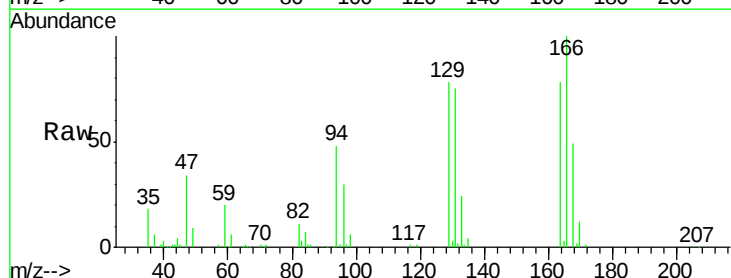


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

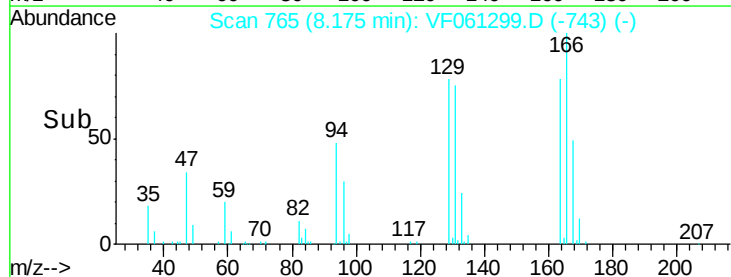
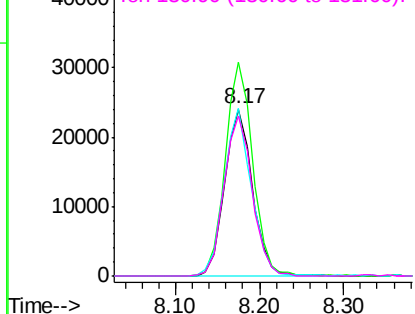


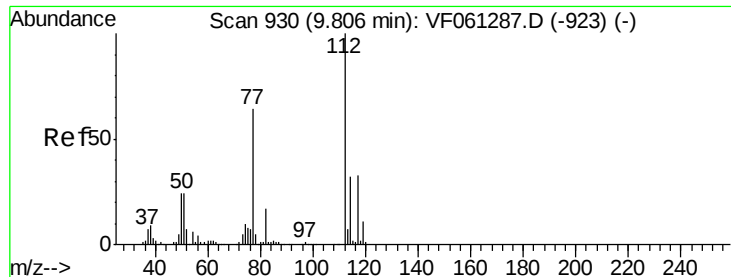
#64
Tetrachloroethene
Concen: 21.313 ug/l
RT: 8.17 min Scan# 765
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion:164 Resp: 55131
Ion Ratio Lower Upper
164 100
166 127.9 100.1 150.1
129 100.3 80.1 120.1
131 95.6 76.7 115.1



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

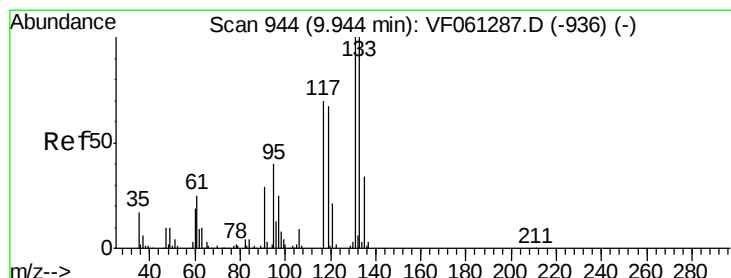
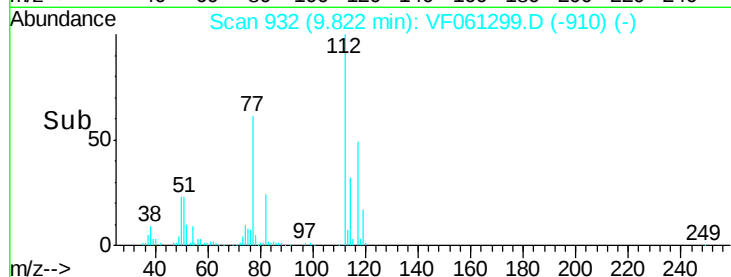
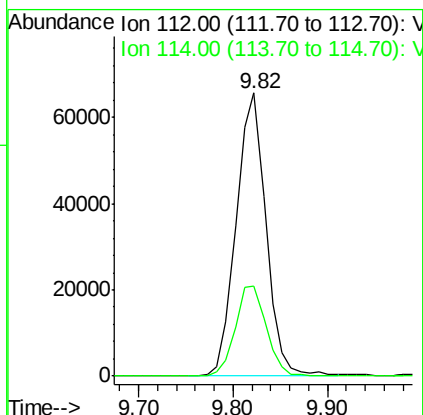
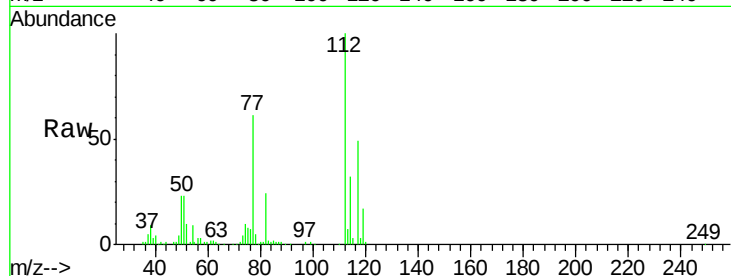




#65
Chlorobenzene
Concen: 20.033 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

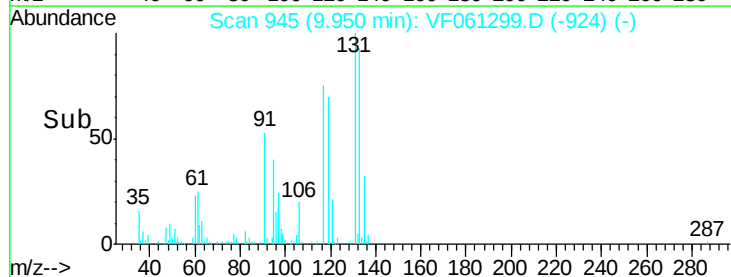
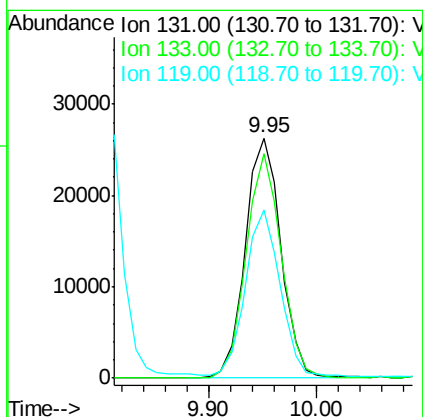
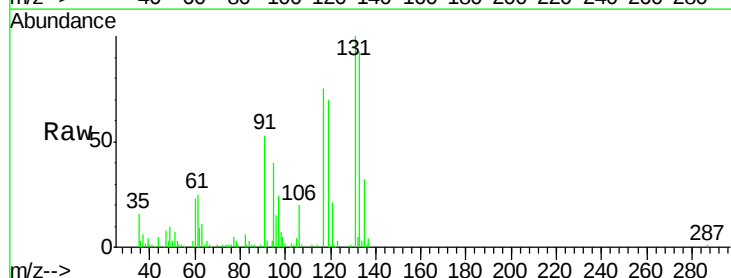
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

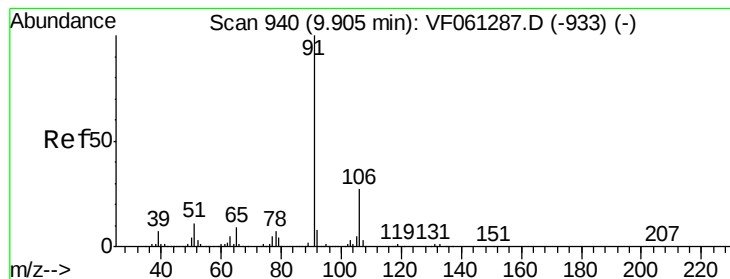
Tot Ion:112 Resp: 143721
Ion Ratio Lower Upper
112 100
114 31.6 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 20.535 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion:131 Resp: 60114
Ion Ratio Lower Upper
131 100
133 93.3 49.9 149.6
119 70.2 33.9 101.6





#67

Ethyl Benzene

Concen: 20.270 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

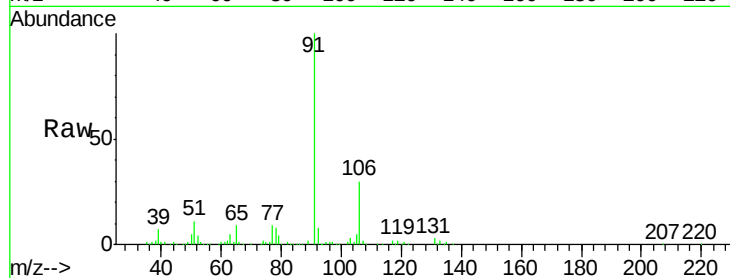
VF0109SBS02

Tot Ion: 91 Resp: 280382

Ion Ratio Lower Upper

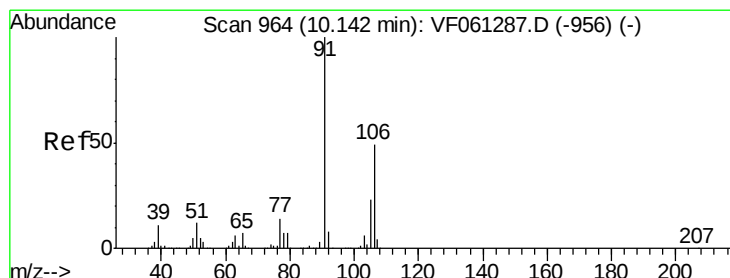
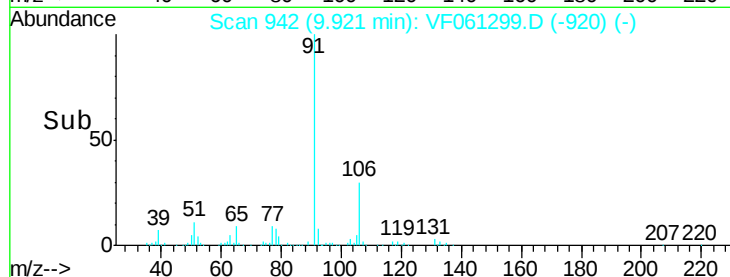
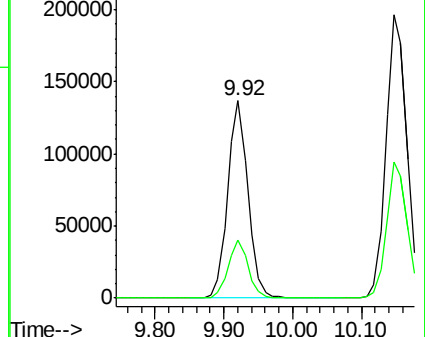
91 100

106 29.7 21.4 32.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 40.684 ug/l

RT: 10.15 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF061299.D

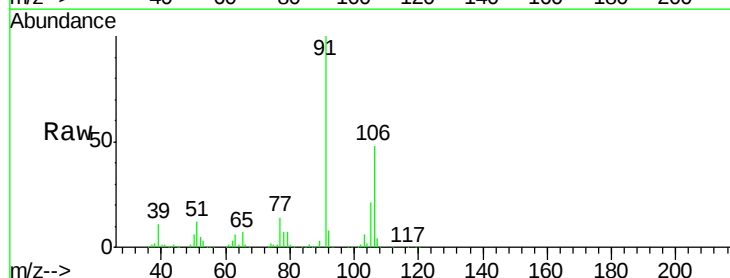
Acq: 9 Jan 2019 14:16

Tgt Ion: 106 Resp: 196305

Ion Ratio Lower Upper

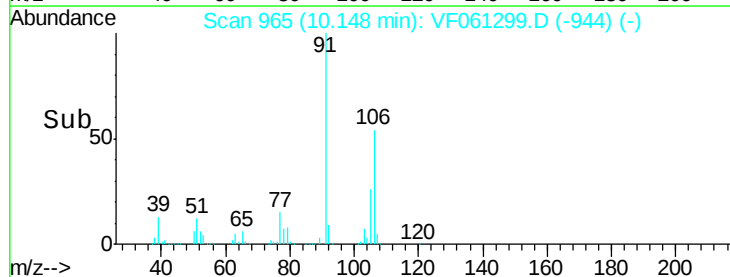
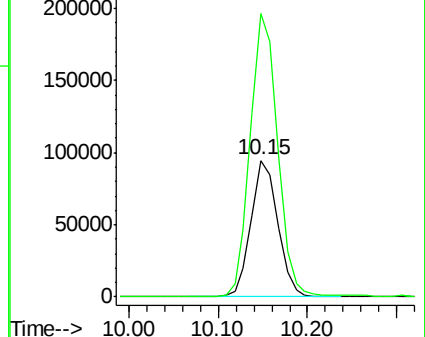
106 100

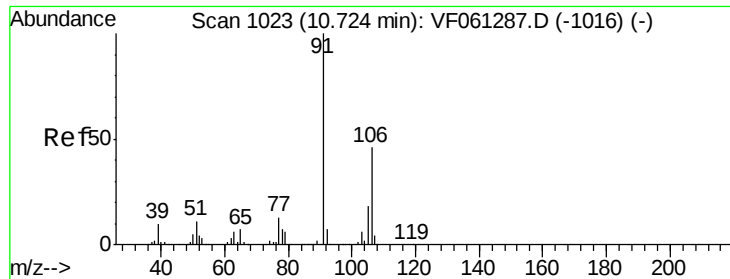
91 207.3 165.0 247.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

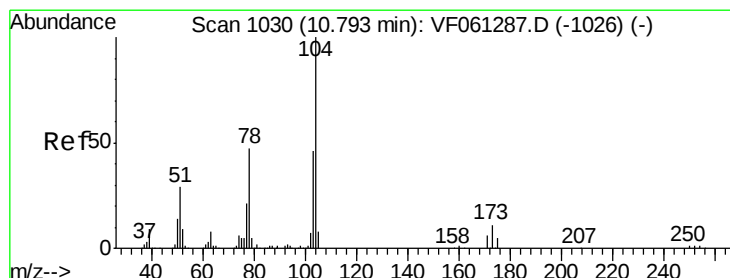
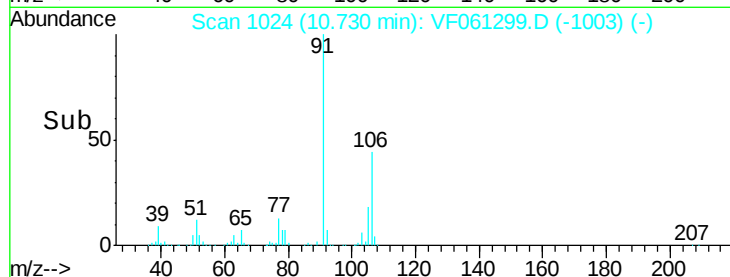
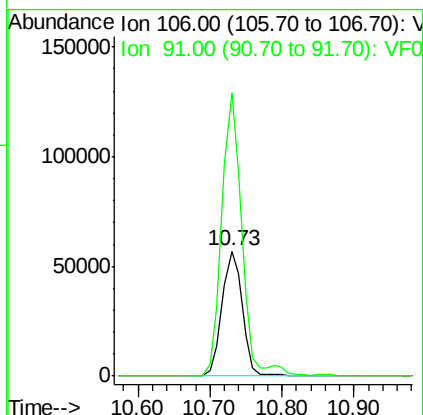
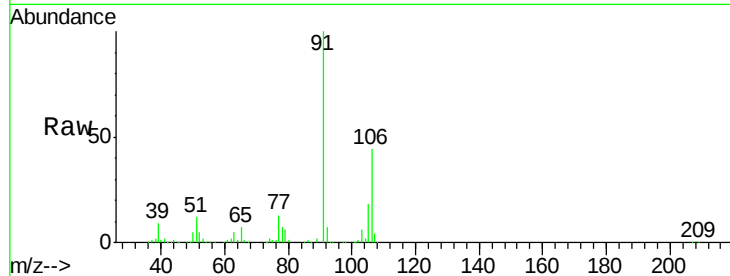




#69
o-Xylene
Concen: 20.817 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

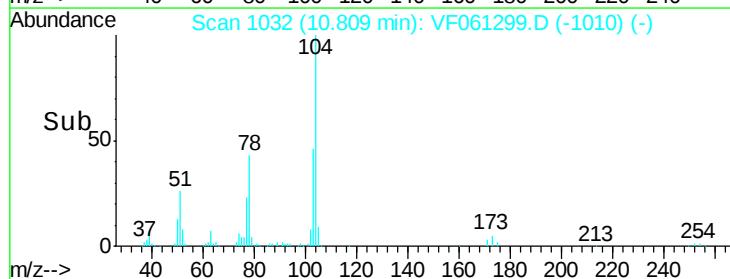
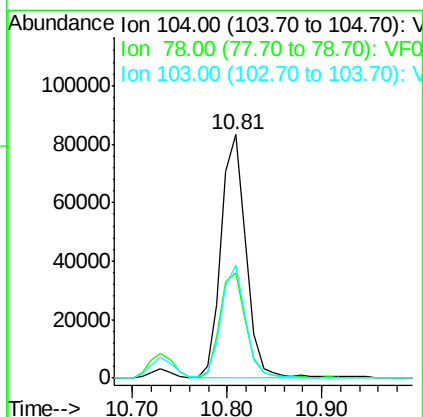
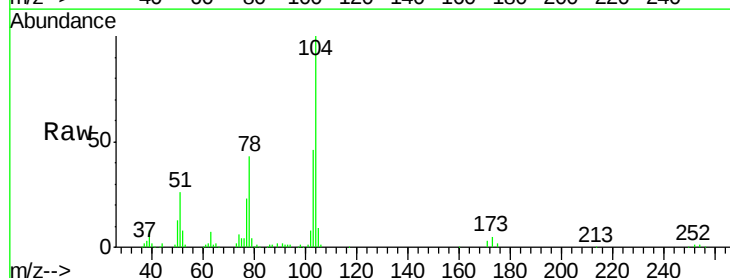
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

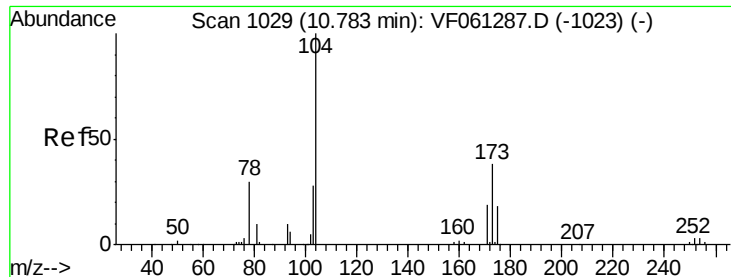
Tot Ion:106 Resp: 112205
Ion Ratio Lower Upper
106 100
91 225.9 108.1 324.4



#70
Styrene
Concen: 20.979 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.02 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion:104 Resp: 150635
Ion Ratio Lower Upper
104 100
78 43.4 38.0 57.0
103 46.2 36.7 55.1

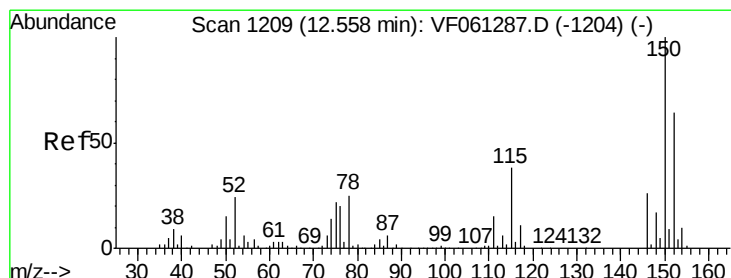
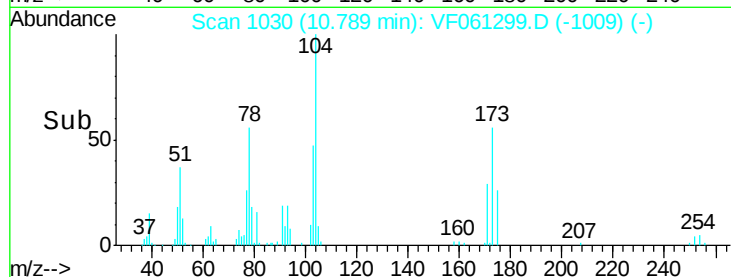
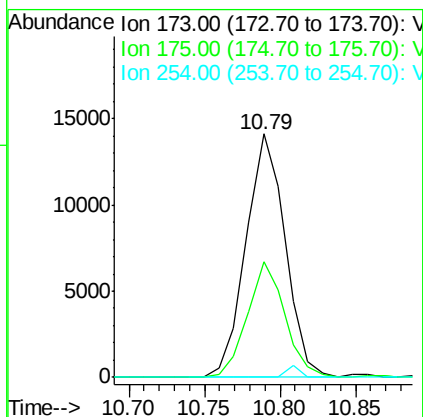
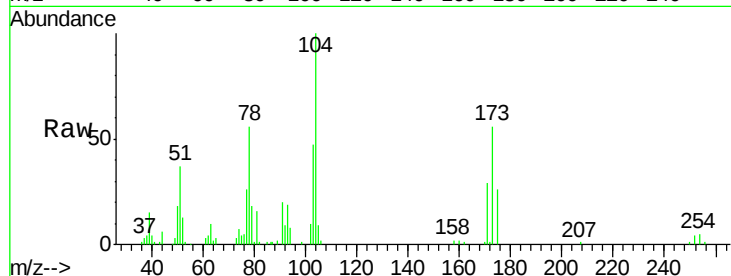




#71
Bromoform
Concen: 21.387 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

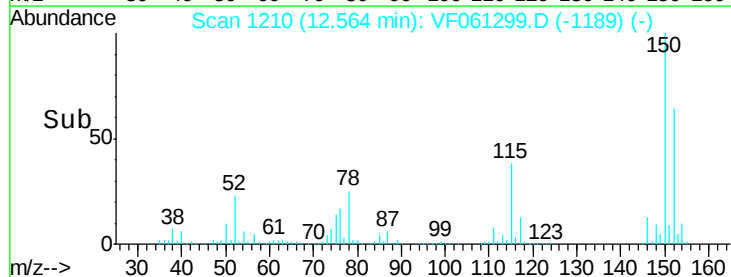
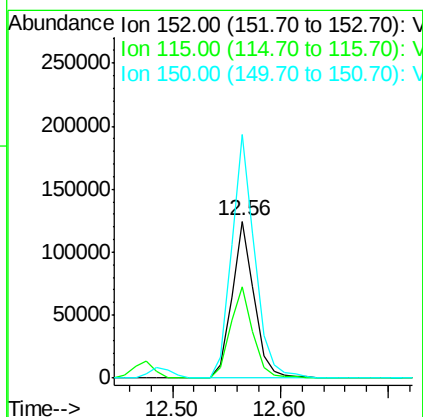
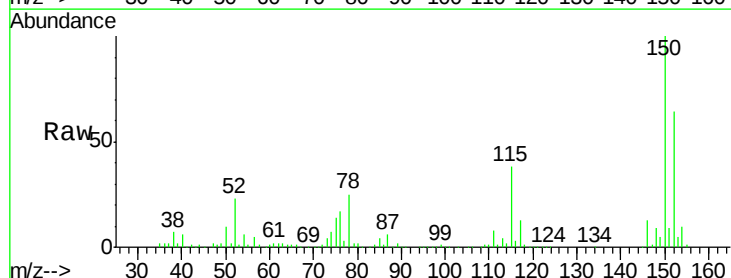
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

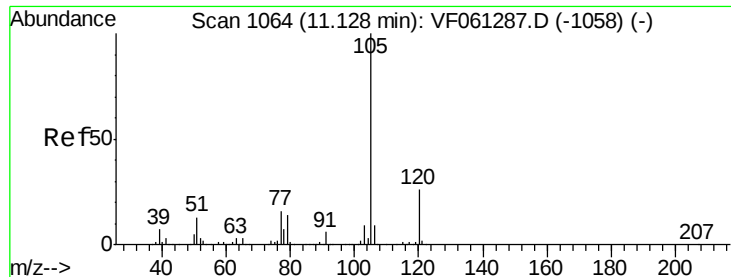
Tot Ion:173 Resp: 25587
Ion Ratio Lower Upper
173 100
175 47.3 24.1 72.2
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion:152 Resp: 178592
Ion Ratio Lower Upper
152 100
115 58.6 29.6 88.9
150 155.4 0.0 315.4





#73

Isopropylbenzene

Concen: 20.645 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

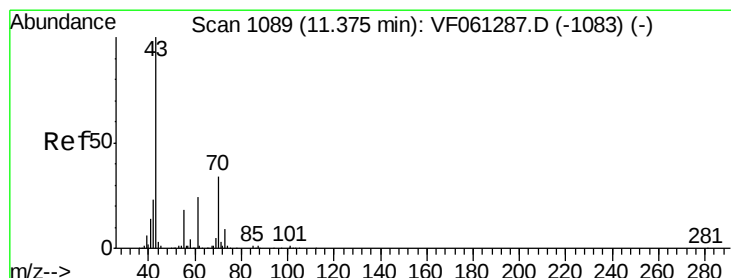
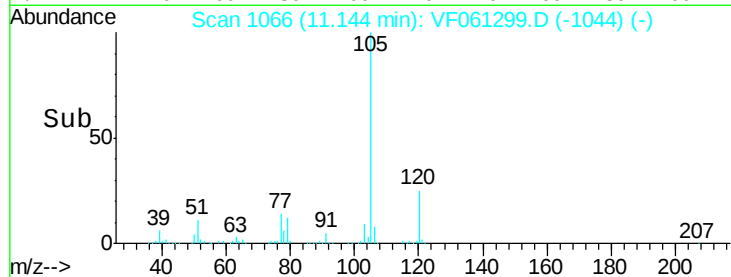
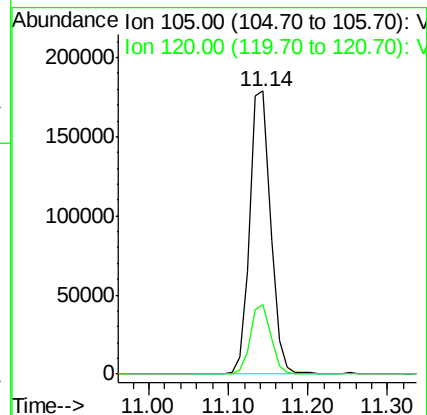
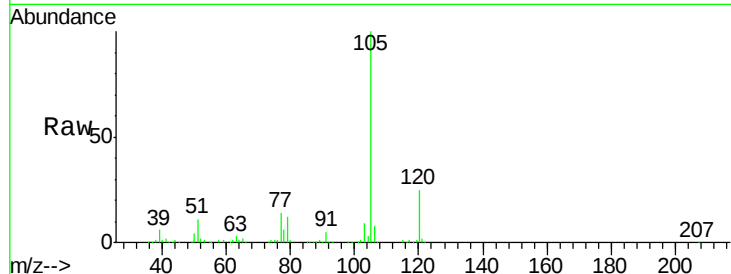
VF0109SBS02

Tot Ion:105 Resp: 324435

Ion Ratio Lower Upper

105 100

120 24.6 12.9 38.7



#74

N-ethyl acetate

Concen: 22.011 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Tgt Ion: 43 Resp: 78629

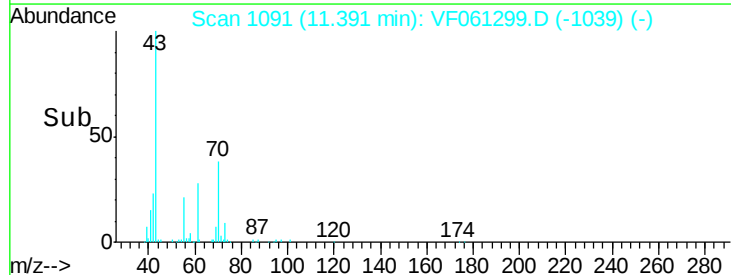
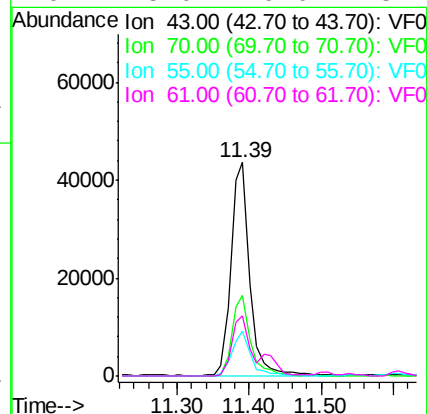
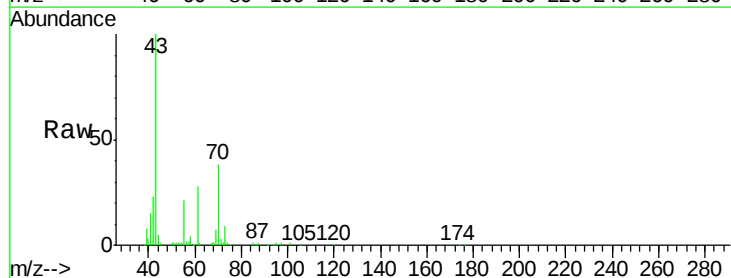
Ion Ratio Lower Upper

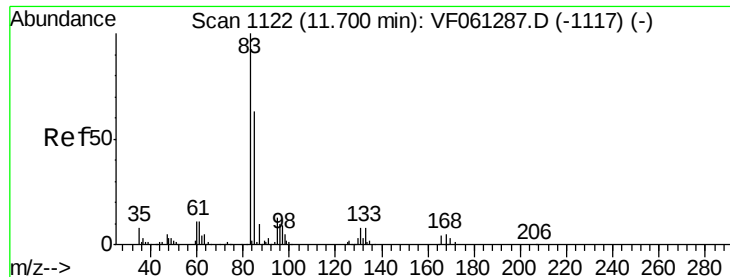
43 100

70 37.8 27.4 41.0

55 21.2 14.7 22.1

61 28.0 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 18.557 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD02

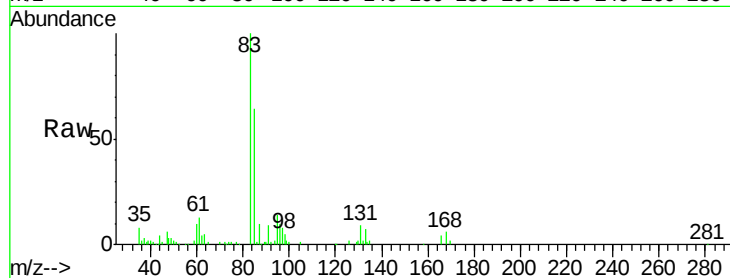
Tot Ion: 83 Resp: 46238

Ion Ratio Lower Upper

83 100

131 8.8 3.9 11.7

85 63.5 31.6 94.7



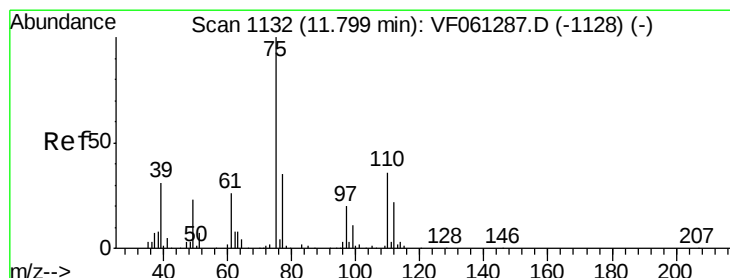
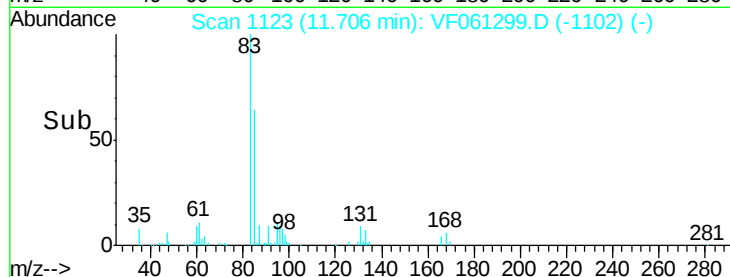
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

11.71

Time--> 11.60 11.70 11.80



#76

1,2,3-Trichloropropane

Concen: 20.648 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.01 min

Lab File: VF061299.D

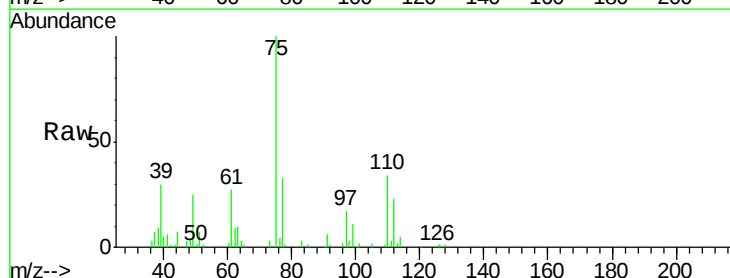
Acq: 9 Jan 2019 14:16

Tgt Ion: 75 Resp: 37734

Ion Ratio Lower Upper

75 100

77 32.7 17.5 52.5

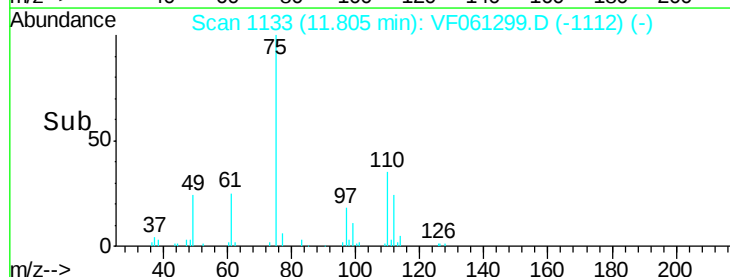


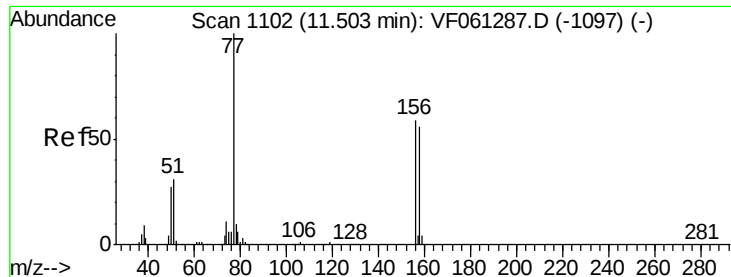
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

11.80

Time--> 11.75 11.80 11.85





#77

Bromobenzene

Concen: 20.771 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD02

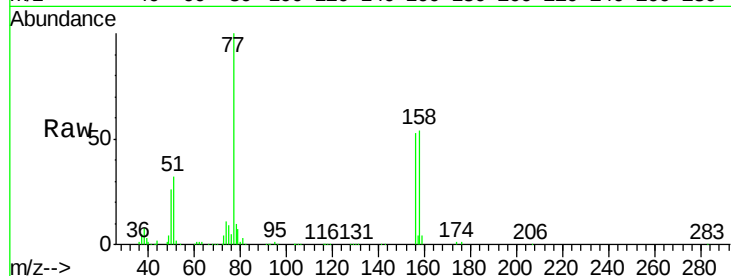
Tot Ion:156 Resp: 64940

Ion Ratio Lower Upper

156 100

77 188.0 84.3 252.9

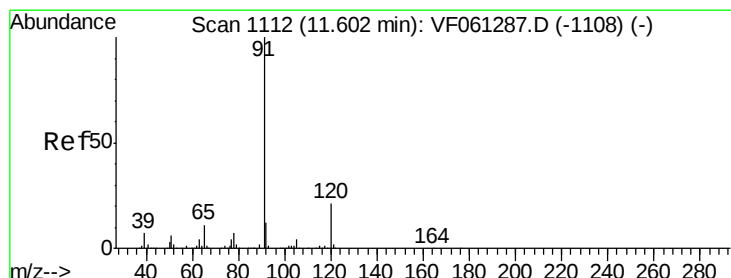
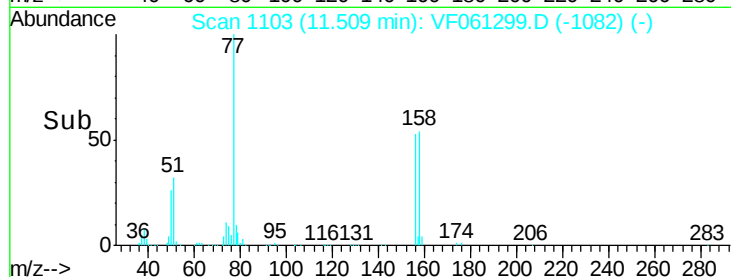
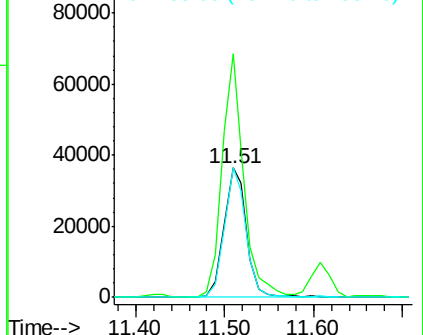
158 100.6 47.1 141.3



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: 20.175 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF061299.D

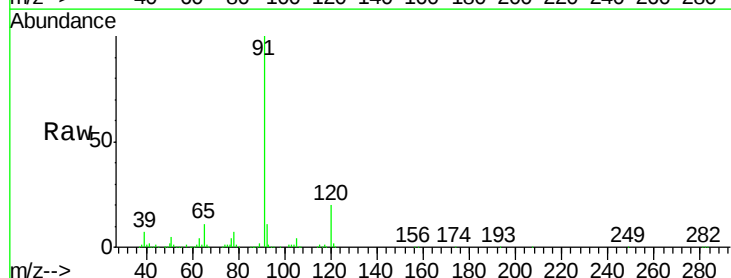
Acq: 9 Jan 2019 14:16

Tgt Ion: 91 Resp: 378014

Ion Ratio Lower Upper

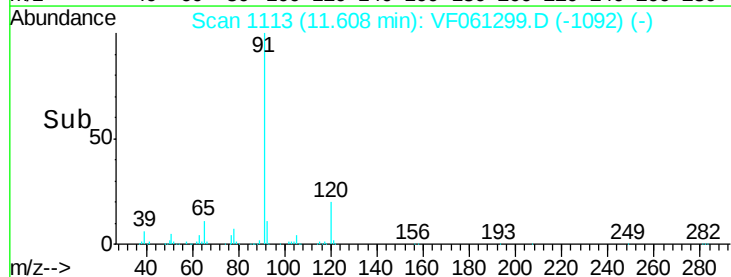
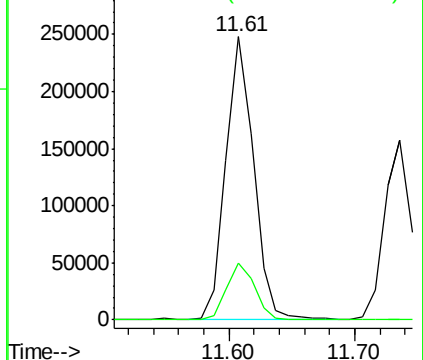
91 100

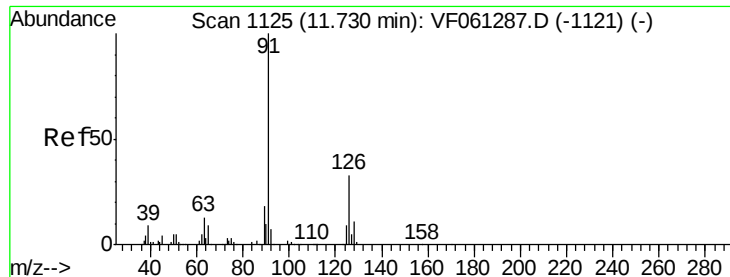
120 20.3 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.668 ug/l

RT: 11.74 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

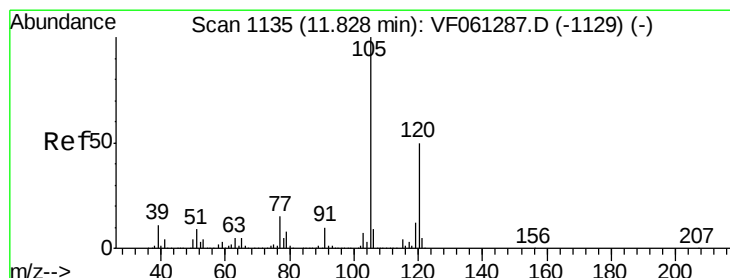
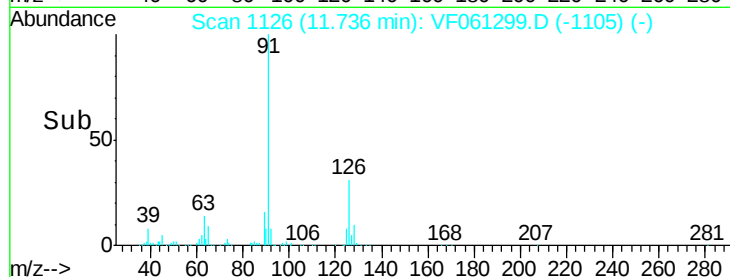
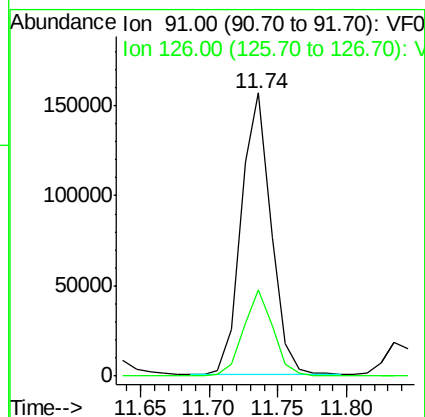
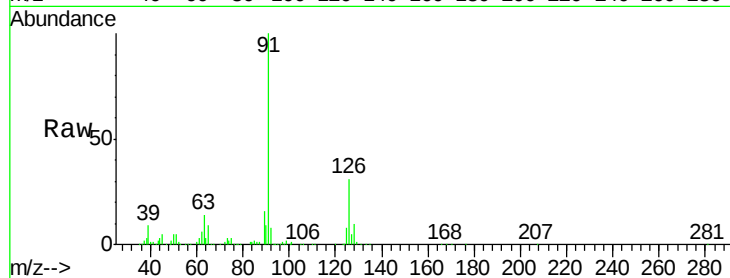
VF0109SBSD02

Tot Ion: 91 Resp: 236644

Ion Ratio Lower Upper

91 100

126 30.7 16.6 49.8



#80

1,3,5-Trimethylbenzene

Concen: 21.330 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VF061299.D

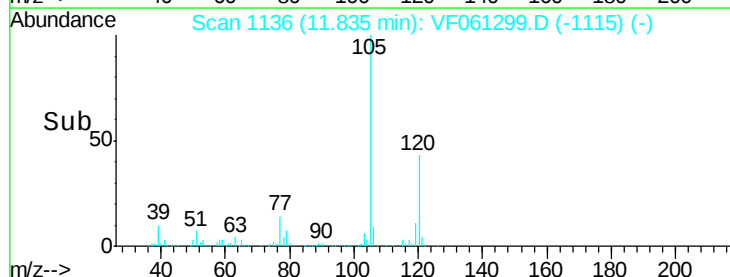
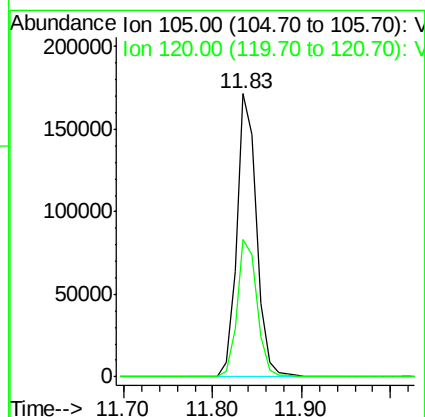
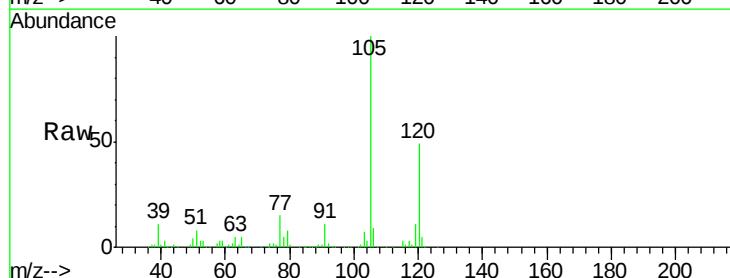
Acq: 9 Jan 2019 14:16

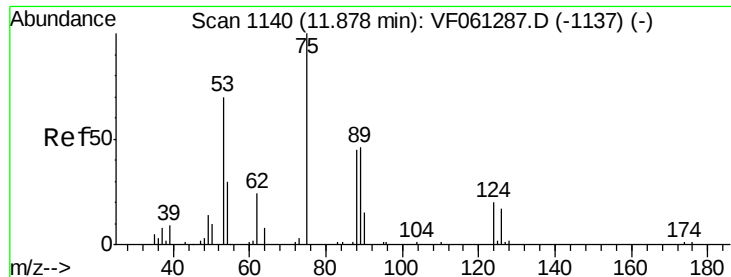
Tgt Ion:105 Resp: 266725

Ion Ratio Lower Upper

105 100

120 48.5 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 21.189 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD02

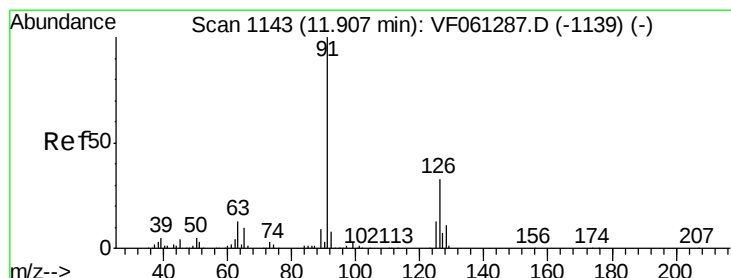
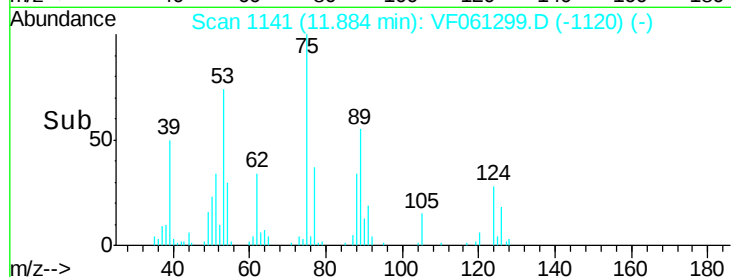
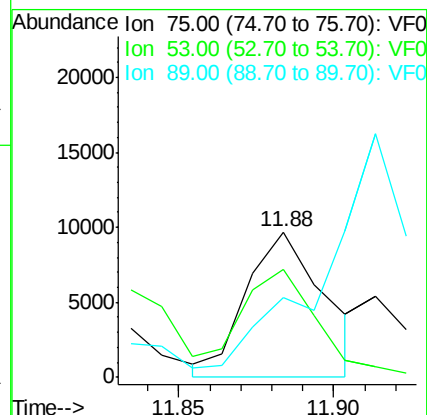
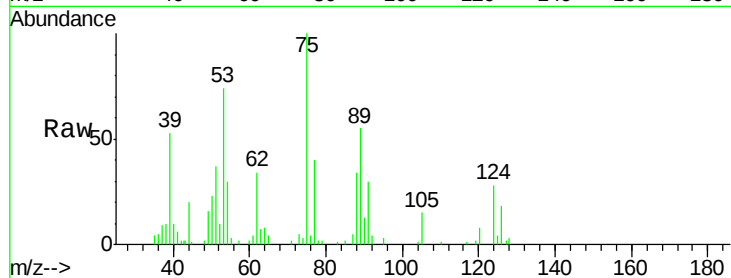
Tot Ion: 75 Resp: 16922

Ion Ratio Lower Upper

75 100

53 74.2 62.2 93.2

89 55.0 40.2 60.4



#82

4-Chlorotoluene

Concen: 20.669 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF061299.D

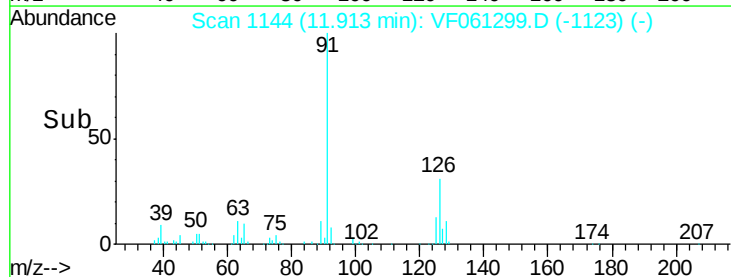
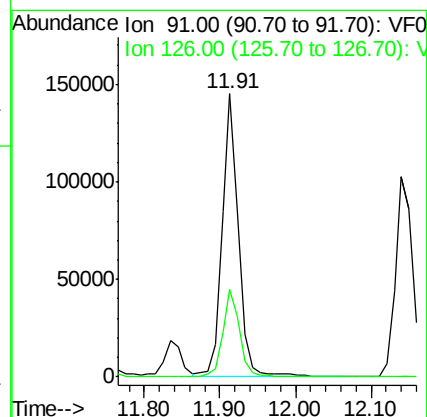
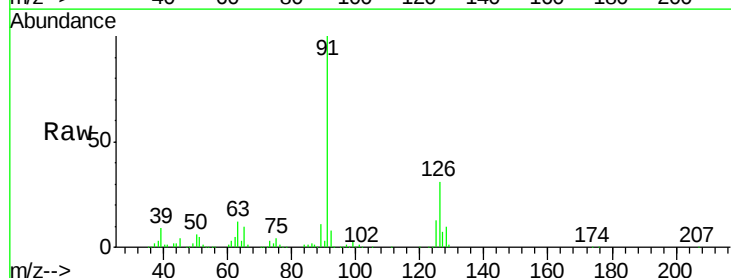
Acq: 9 Jan 2019 14:16

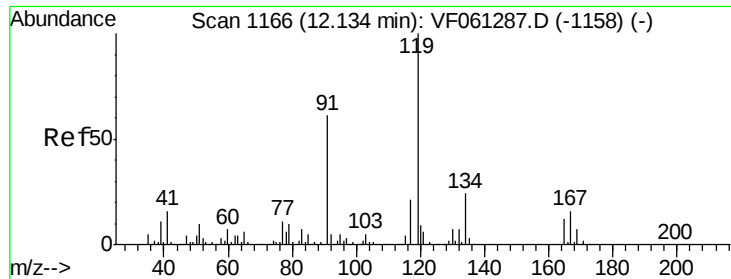
Tgt Ion: 91 Resp: 219252

Ion Ratio Lower Upper

91 100

126 30.9 16.4 49.4

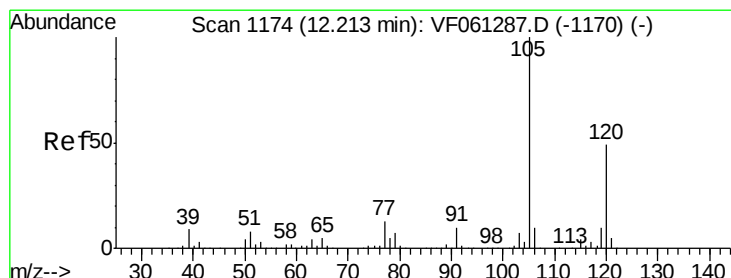
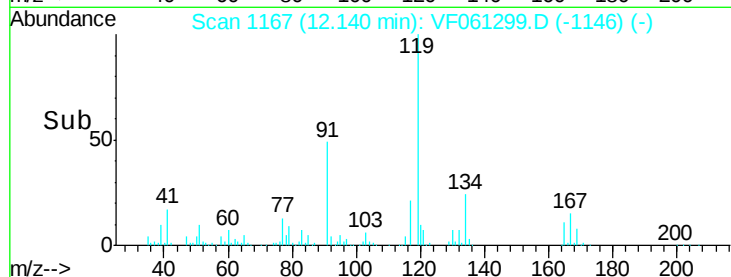
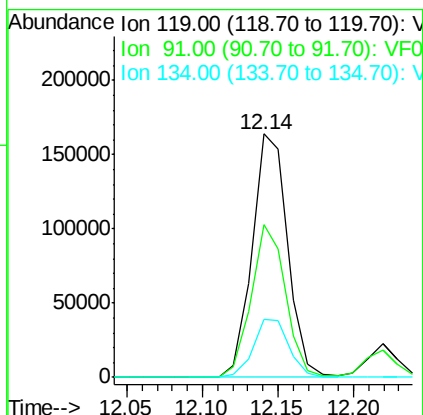
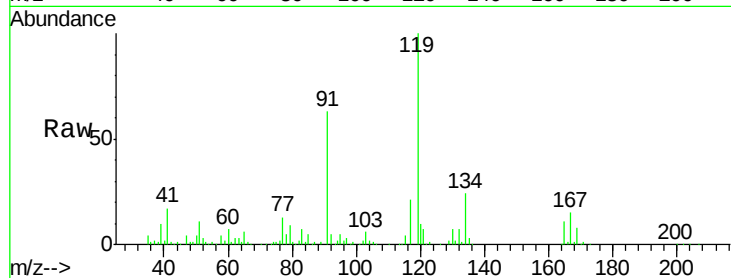




#83
tert-Butylbenzene
Concen: 21.494 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

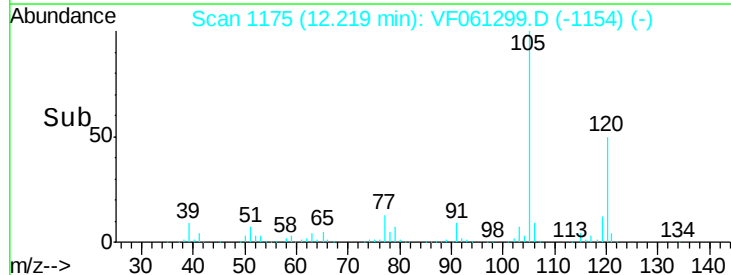
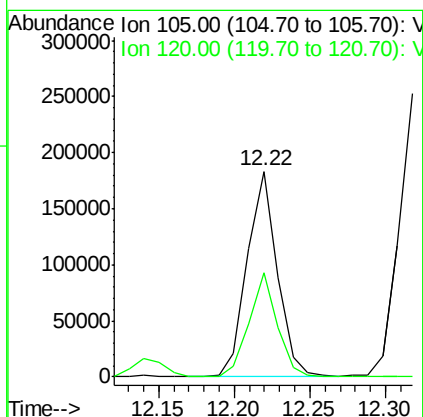
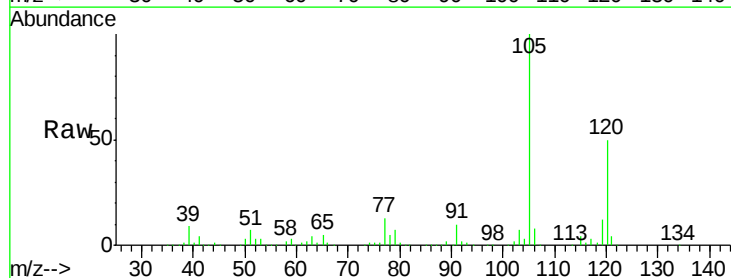
Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

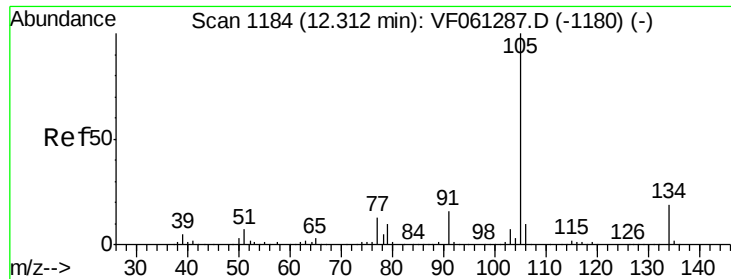
Tot Ion:119 Resp: 267784
Ion Ratio Lower Upper
119 100
91 62.6 30.8 92.4
134 24.1 11.9 35.9



#84
1,2,4-Trimethylbenzene
Concen: 20.580 ug/l
RT: 12.22 min Scan# 1175
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion:105 Resp: 255495
Ion Ratio Lower Upper
105 100
120 50.5 24.7 74.1

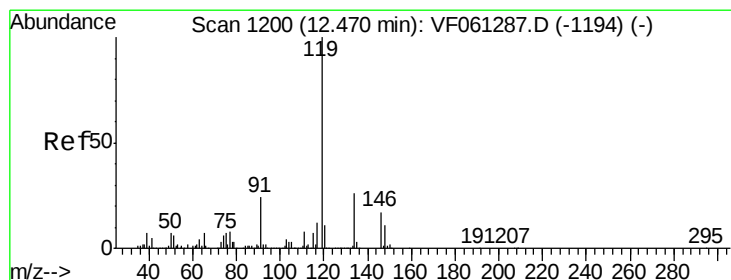
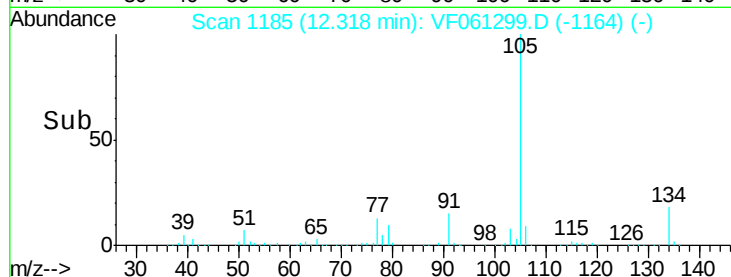
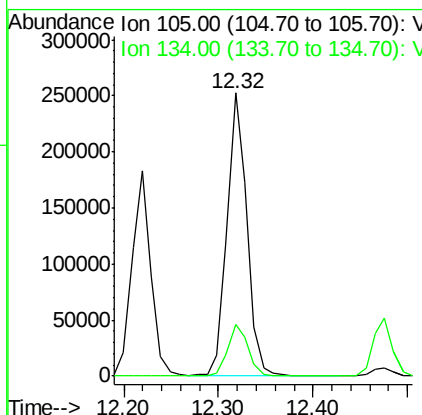
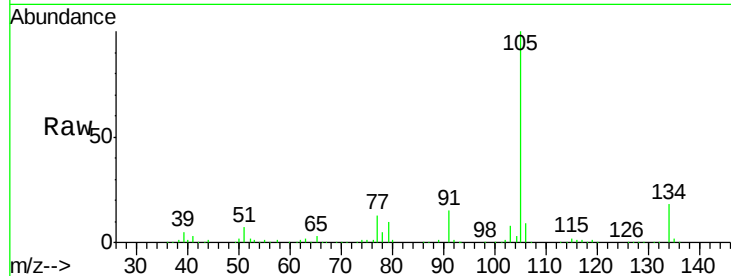




#85
 sec-Butylbenzene
 Concen: 20.542 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

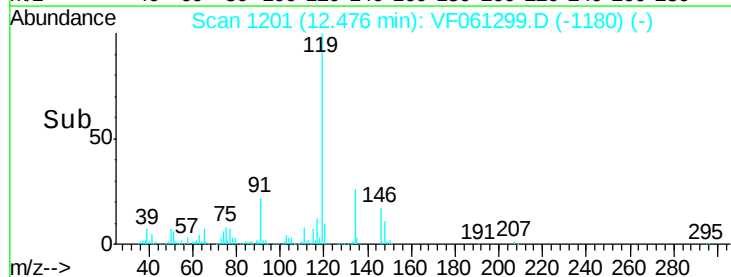
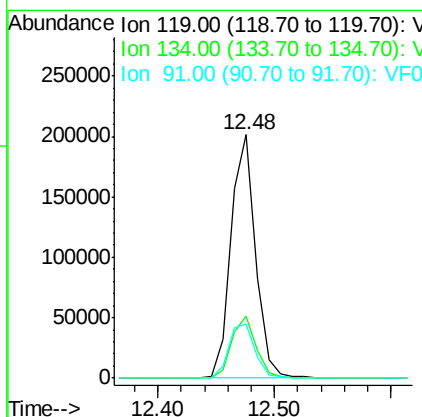
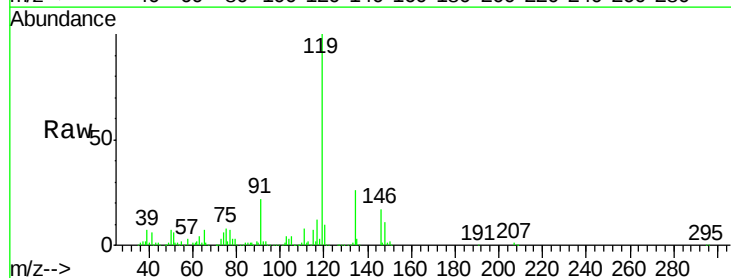
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBSD02

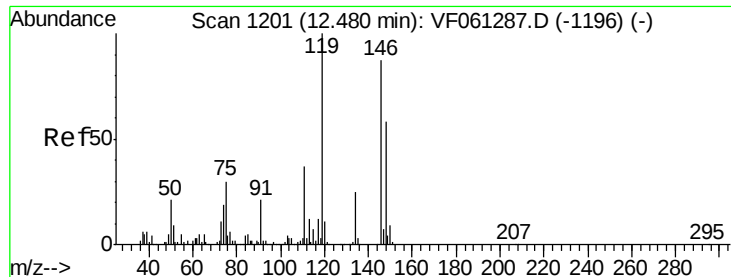
Tot Ion:105 Resp: 364395
 Ion Ratio Lower Upper
 105 100
 134 18.3 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 20.384 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Tgt Ion:119 Resp: 294106
 Ion Ratio Lower Upper
 119 100
 134 25.6 13.0 39.0
 91 22.3 12.2 36.4

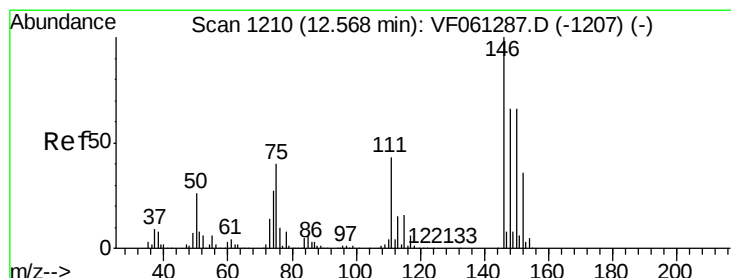
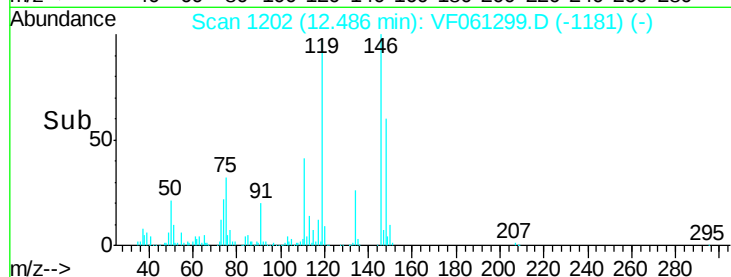
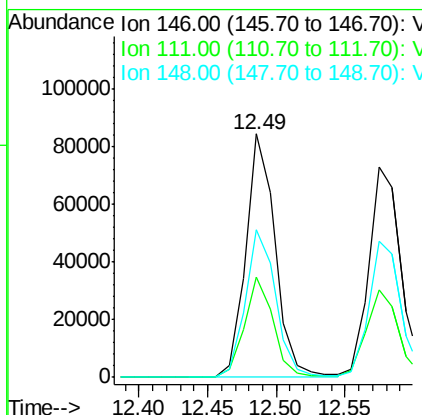
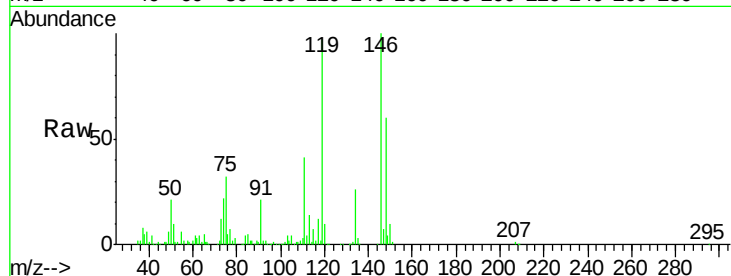




#87
 1,3-Dichlorobenzene
 Concen: 20.740 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

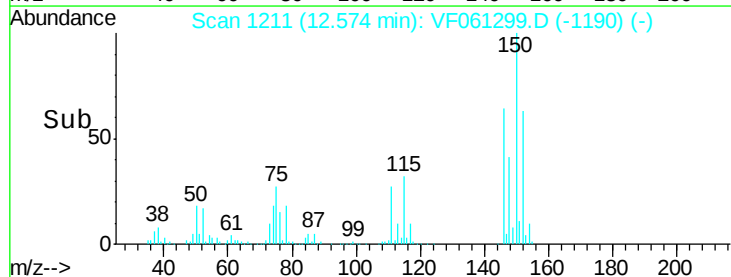
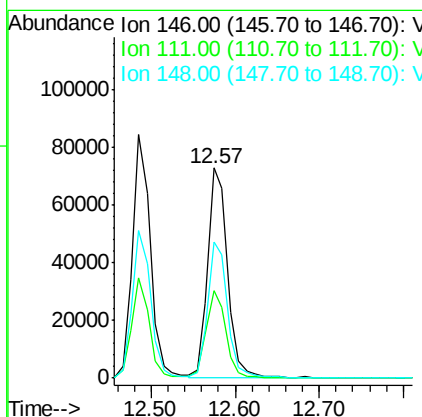
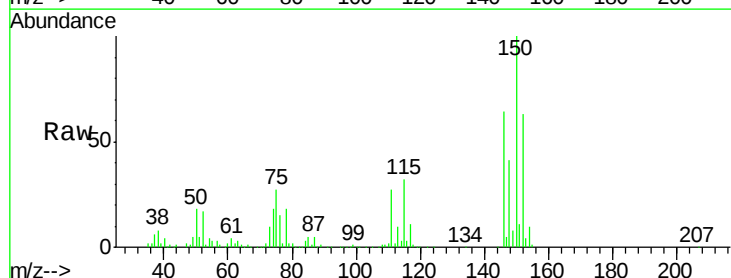
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBSD02

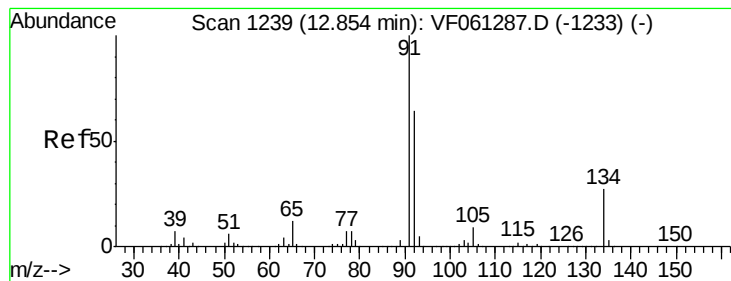
Tot Ion:146 Resp: 126631
 Ion Ratio Lower Upper
 146 100
 111 41.0 21.1 63.3
 148 60.5 33.1 99.5



#88
 1,4-Dichlorobenzene
 Concen: 20.403 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Tgt Ion:146 Resp: 119760
 Ion Ratio Lower Upper
 146 100
 111 41.7 21.4 64.2
 148 64.5 33.0 98.9





#89

n-Butylbenzene

Concen: 21.396 ug/l

RT: 12.86 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VF061299.D

Acq: 9 Jan 2019 14:16

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS02

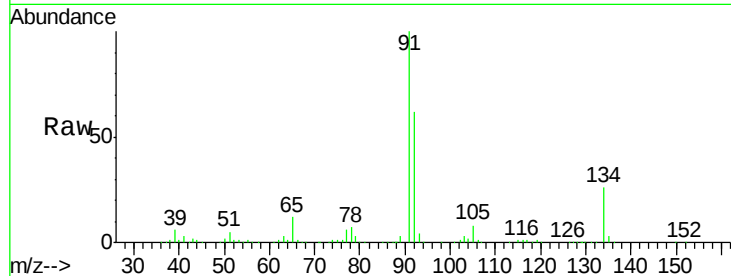
Tot Ion: 91 Resp: 317189

Ion	Ratio	Lower	Upper
91	100		
92	61.6	32.1	96.3
134	25.9	13.4	40.1

91 100

92 61.6 32.1 96.3

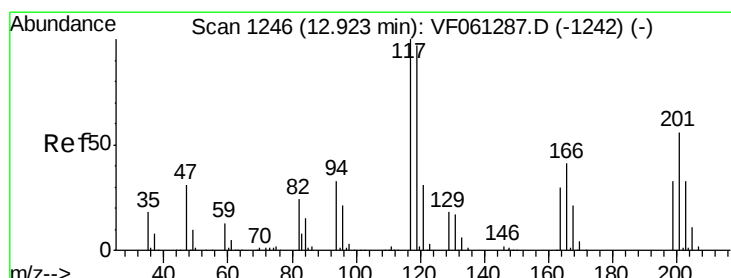
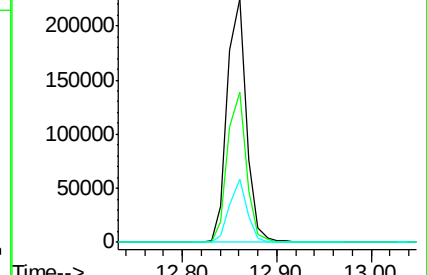
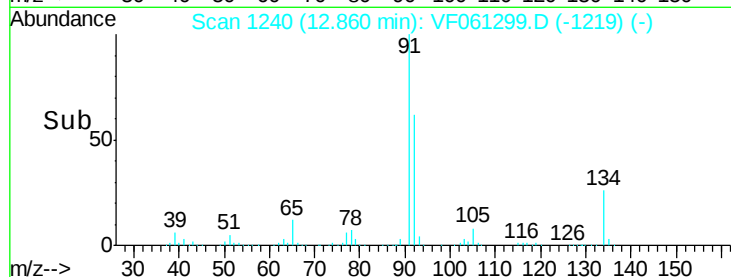
134 25.9 13.4 40.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.630 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VF061299.D

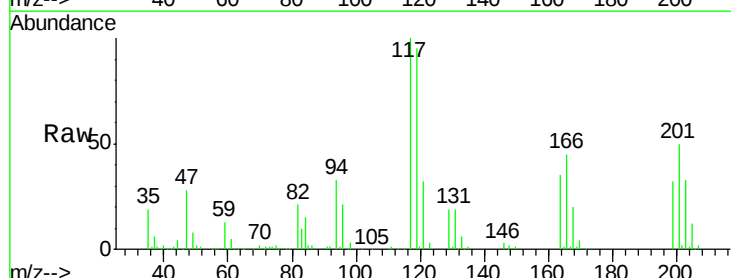
Acq: 9 Jan 2019 14:16

Tgt Ion: 117 Resp: 68090

Ion	Ratio	Lower	Upper
117	100		
201	50.5	27.9	83.7

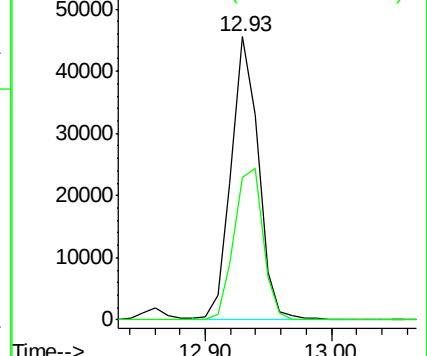
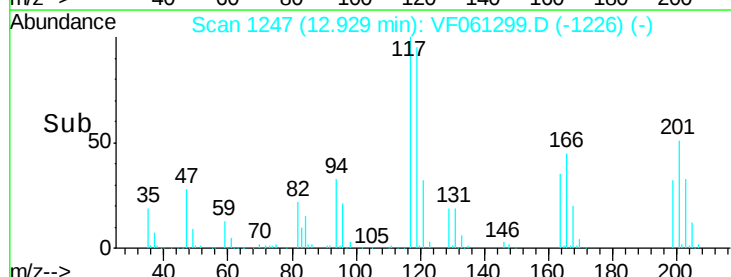
117 100

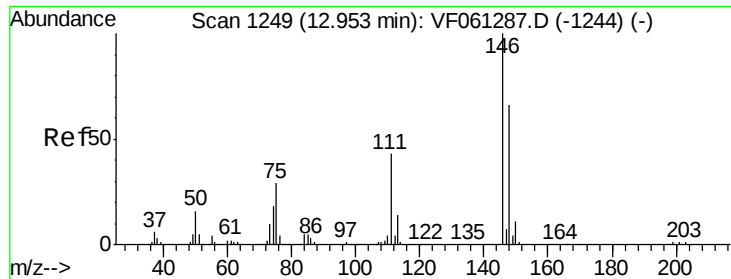
201 50.5 27.9 83.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

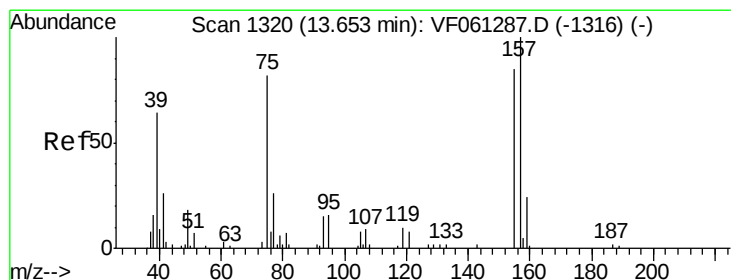
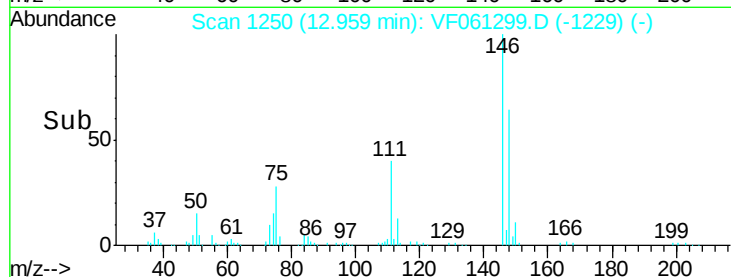
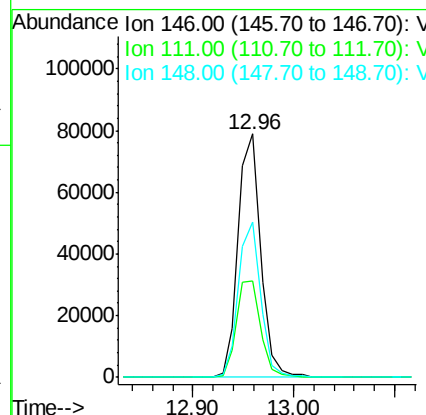
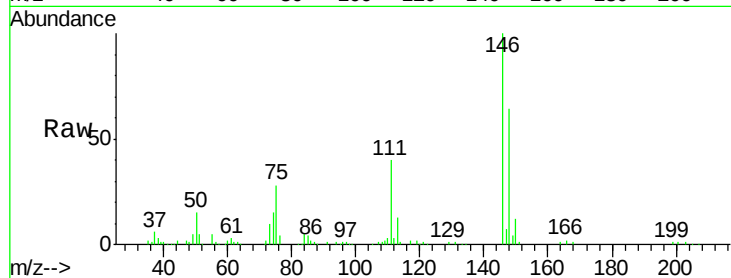




#91
 1,2-Dichlorobenzene
 Concen: 21.093 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

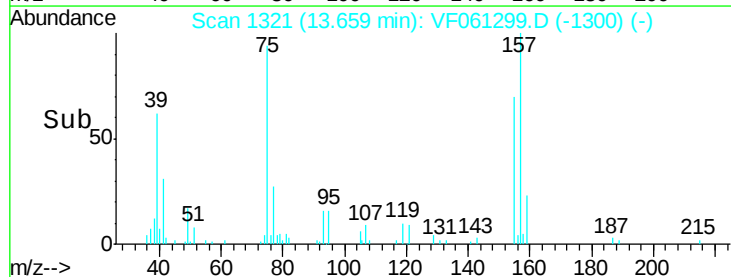
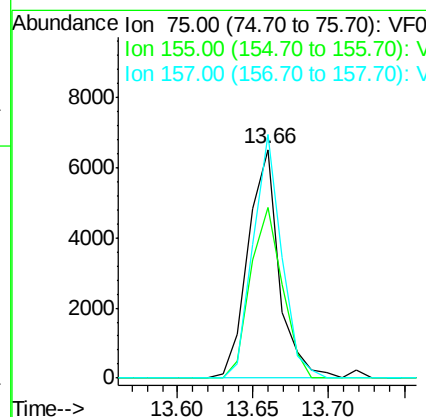
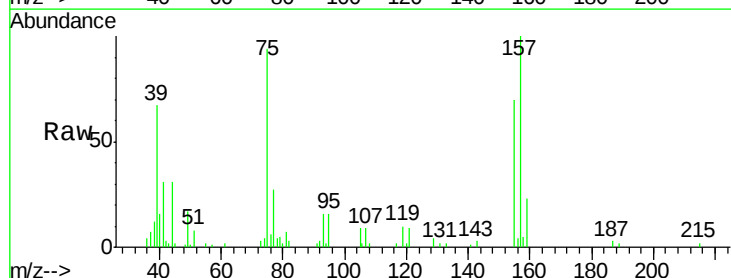
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS02

Tot Ion:146 Resp: 122920
 Ion Ratio Lower Upper
 146 100
 111 39.7 21.4 64.3
 148 63.6 33.1 99.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.171 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Tgt Ion: 75 Resp: 9334
 Ion Ratio Lower Upper
 75 100
 155 74.6 51.3 154.0
 157 106.6 60.7 182.0

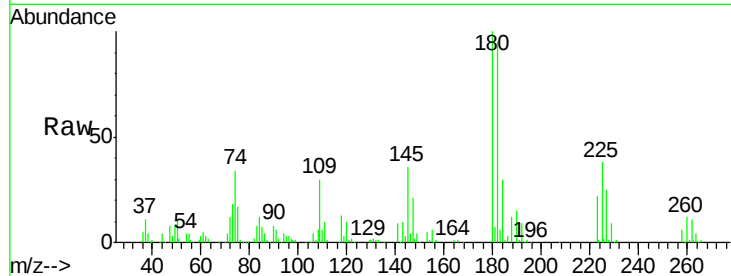




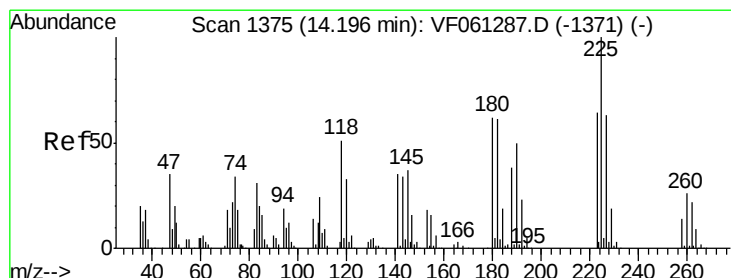
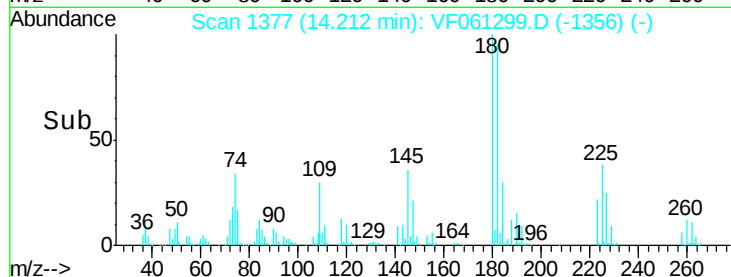
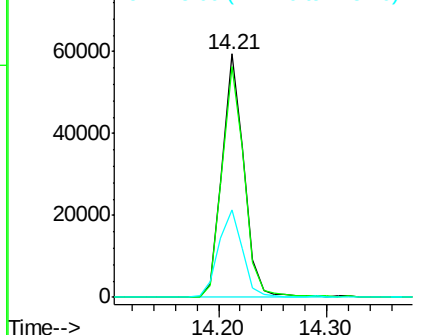
#93
 1,2,4-Trichlorobenzene
 Concen: 20.933 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS02

Tot Ion:180 Resp: 83949
 Ion Ratio Lower Upper
 180 100
 182 94.7 47.0 141.2
 145 35.8 19.7 59.1

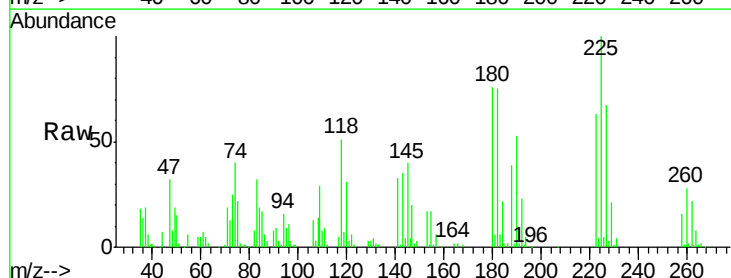


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

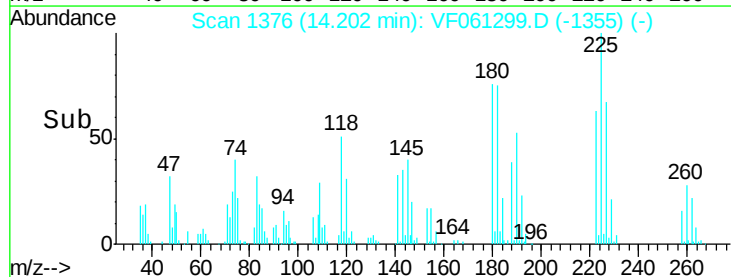
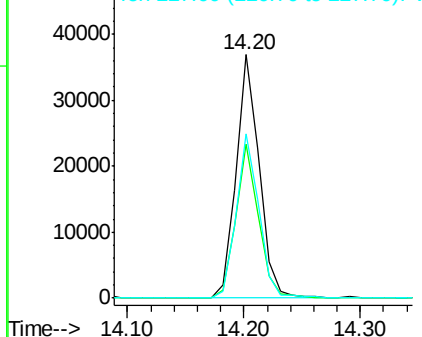


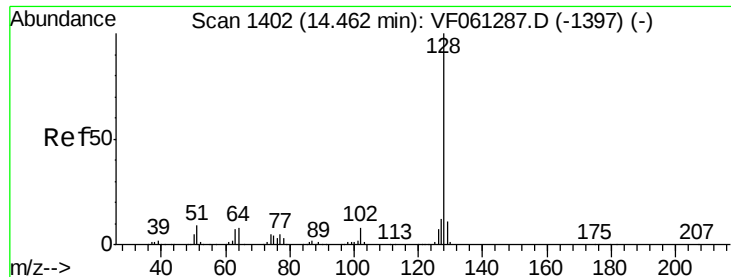
#94
 Hexachlorobutadiene
 Concen: 19.663 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061299.D
 Acq: 9 Jan 2019 14:16

Tgt Ion:225 Resp: 50764
 Ion Ratio Lower Upper
 225 100
 223 63.4 31.8 95.4
 227 67.2 31.3 93.9



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

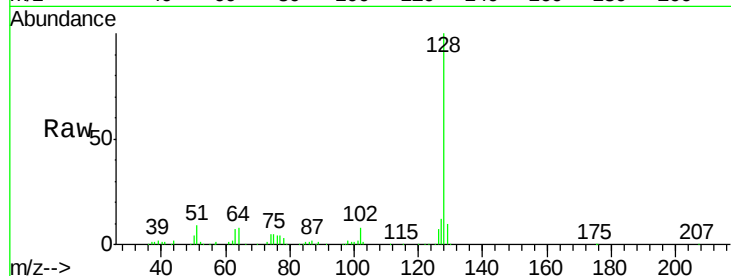




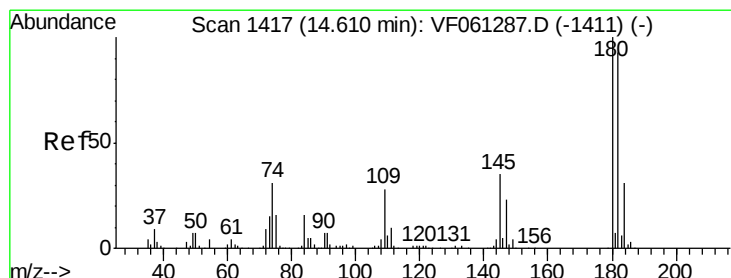
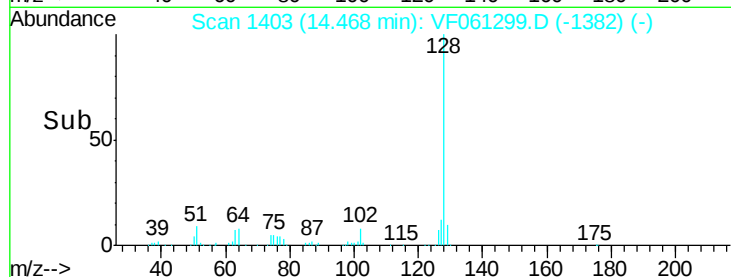
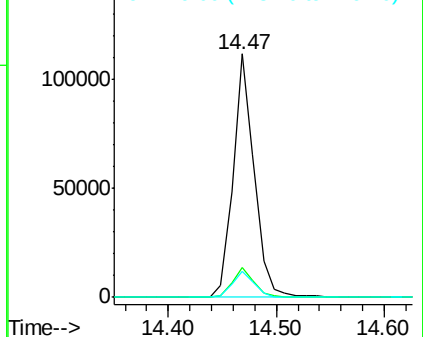
#95
Naphthalene
Concen: 20.115 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS02

Tot Ion:128 Resp: 152018
Ion Ratio Lower Upper
128 100
127 12.1 9.4 14.0
129 10.5 8.8 13.2

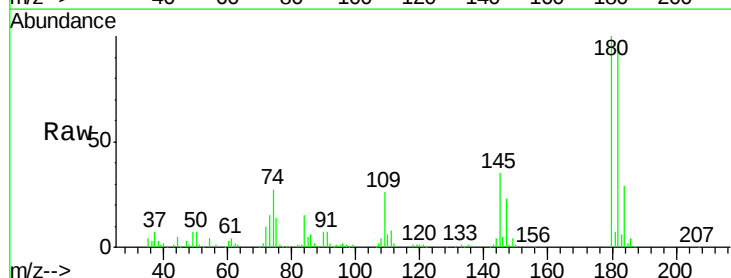


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 20.153 ug/l
RT: 14.62 min Scan# 1418
Delta R.T. 0.01 min
Lab File: VF061299.D
Acq: 9 Jan 2019 14:16

Tgt Ion:180 Resp: 76130
Ion Ratio Lower Upper
180 100
182 96.2 46.5 139.3
145 35.2 17.5 52.6



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

