

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061552.D
 Acq On : 7 Feb 2019 18:39
 Operator : VA/AP
 Sample : K1404-03MS
 Misc : 5.33g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 09 04:36:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	157673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	294337	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	258320	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	128700	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	94505	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
35) Dibromofluoromethane	4.12	113	104836	45.14	ug/l	0.01
Spiked Amount			Recovery	=	90.28%	
50) Toluene-d8	7.55	98	284619	44.73	ug/l	0.00
Spiked Amount			Recovery	=	89.46%	
62) 4-Bromofluorobenzene	11.41	95	122503	41.20	ug/l	0.00
Spiked Amount			Recovery	=	82.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	139400	44.996	ug/l	91
3) Chloromethane	1.10	50	96621	42.534	ug/l #	87
4) Vinyl Chloride	1.14	62	95218	47.121	ug/l	99
5) Bromomethane	1.33	94	67005	50.850	ug/l	97
6) Chloroethane	1.39	64	44296	49.471	ug/l	99
7) Trichlorofluoromethane	1.48	101	182880	46.554	ug/l	93
8) Diethyl Ether	1.63	74	28153	55.931	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.83	101	86355	45.750	ug/l	97
10) Methyl Iodide	1.91	142	114555	39.147	ug/l	95
11) Tert butyl alcohol	2.57	59	23341	283.267	ug/l	98
12) 1,1-Dichloroethene	1.79	96	68907	49.137	ug/l	95
13) Acrolein	2.00	56	12053	173.138	ug/l	96
14) Allyl chloride	2.10	41	102059	65.667	ug/l	93
15) Acrylonitrile	2.94	53	59447	281.652	ug/l	92
16) Acetone	2.23	43	105362	269.795	ug/l	96
17) Carbon Disulfide	1.82	76	203707	46.587	ug/l	98
18) Methyl Acetate	2.34	43	53873	69.561	ug/l	99
19) Methyl tert-butyl Ether	2.42	73	167201	53.187	ug/l	96
20) Methylene Chloride	2.25	84	42508	31.412	ug/l	94
21) trans-1,2-Dichloroethene	2.30	96	72800	47.184	ug/l	93
22) Diisopropyl ether	2.80	45	267428	53.588	ug/l	98
23) Vinyl Acetate	3.18	43	515850	235.198	ug/l	99
24) 1,1-Dichloroethane	2.87	63	158838	50.712	ug/l	97
25) 2-Butanone	4.33	43	179191	275.921	ug/l	100
26) 2,2-Dichloropropane	3.60	77	91815	47.712	ug/l	100
27) cis-1,2-Dichloroethene	3.48	96	110379	48.464	ug/l	94
28) Bromochloromethane	3.71	49	71928	51.088	ug/l #	99
29) Tetrahydrofuran	4.07	42	77758	278.065	ug/l	96
30) Chloroform	3.85	83	206427	48.835	ug/l	99
31) Cyclohexane	3.69	56	100349	32.074	ug/l	90
32) 1,1,1-Trichloroethane	4.09	97	141681	45.712	ug/l	94
36) 1,1-Dichloropropene	4.28	75	156224	45.777	ug/l	97
37) Ethyl Acetate	4.11	43	70464	51.654	ug/l #	86
38) Carbon Tetrachloride	3.98	117	128862	43.191	ug/l	93

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 QLast Update : Wed Jan 16 04:51:59 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	145800	39.423	ug/l	99
40) Benzene	4.63	78	334264	44.018	ug/l	99
41) Methacrylonitrile	4.74	41	38539	53.093	ug/l	91
42) 1,2-Dichloroethane	4.94	62	135256	49.984	ug/l	96
43) Isopropyl Acetate	6.96	43	87397	51.046	ug/l #	84
44) Trichloroethene	5.51	130	103468	44.416	ug/l	94
45) 1,2-Dichloropropane	6.23	63	91676	45.998	ug/l	99
46) Dibromomethane	6.08	93	67174	50.688	ug/l	97
47) Bromodichloromethane	6.39	83	161294	49.192	ug/l	99
48) Methyl methacrylate	6.71	41	60989	53.048	ug/l	97
49) 1,4-Dioxane	6.70	88	8494	1062.754	ug/l #	81
51) 4-Methyl-2-Pentanone	8.25	43	323868	257.308	ug/l	98
52) Toluene	7.62	92	213989	42.791	ug/l	99
53) t-1,3-Dichloropropene	8.27	75	121416	46.633	ug/l	93
54) cis-1,3-Dichloropropene	7.30	75	167983	51.616	ug/l	99
55) 1,1,2-Trichloroethane	8.49	97	73611	51.836	ug/l	98
56) Ethyl methacrylate	8.62	69	82893	50.172	ug/l #	81
57) 1,3-Dichloropropane	8.85	76	132117	49.635	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	55696	313.610	ug/l	97
59) 2-Hexanone	9.48	43	231467	263.719	ug/l	97
60) Dibromochloromethane	8.72	129	103588	49.896	ug/l	99
61) 1,2-Dibromoethane	8.98	107	78908	48.538	ug/l	91
64) Tetrachloroethene	8.15	164	90284	46.476	ug/l	97
65) Chlorobenzene	9.79	112	245637	46.760	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	105828	50.571	ug/l	98
67) Ethyl Benzene	9.90	91	461796	48.115	ug/l	98
68) m/p-Xylenes	10.13	106	309099	89.543	ug/l	97
69) o-Xylene	10.71	106	182633	48.815	ug/l	99
70) Styrene	10.79	104	223333	43.609	ug/l	99
71) Bromoform	10.77	173	54227	57.673	ug/l #	96
73) Isopropylbenzene	11.12	105	504139	48.163	ug/l	100
74) N-amyl acetate	11.37	43	134313	54.264	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	99018	53.100	ug/l	97
76) 1,2,3-Trichloropropane	11.79	75	69392	51.789	ug/l	98
77) Bromobenzene	11.50	156	113297	51.251	ug/l	96
78) n-propylbenzene	11.60	91	572158	44.251	ug/l	99
79) 2-Chlorotoluene	11.71	91	345769	47.609	ug/l	100
80) 1,3,5-Trimethylbenzene	11.82	105	394365	46.685	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	40908	70.232	ug/l #	86
82) 4-Chlorotoluene	11.90	91	347943	47.476	ug/l	97
83) tert-Butylbenzene	12.13	119	411513	47.067	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	405244	46.573	ug/l	94
85) sec-Butylbenzene	12.31	105	554209	46.676	ug/l	97
86) p-Isopropyltoluene	12.45	119	462120	47.412	ug/l	95
87) 1,3-Dichlorobenzene	12.47	146	203256	45.840	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	199670	47.798	ug/l	99
89) n-Butylbenzene	12.84	91	458733	45.636	ug/l	94
90) Hexachloroethane	12.92	117	111203	48.400	ug/l	91
91) 1,2-Dichlorobenzene	12.94	146	192139	46.462	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	18735	56.645	ug/l	72

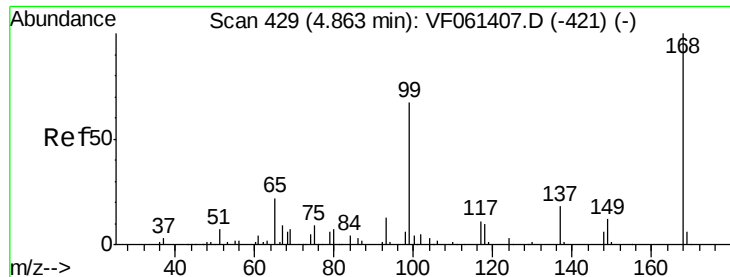
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF020719\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	136263	47.037	ug/l	99
94) Hexachlorobutadiene	14.19	225	75154	41.808	ug/l	97
95) Naphthalene	14.46	128	291800	53.017	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	130716	48.744	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

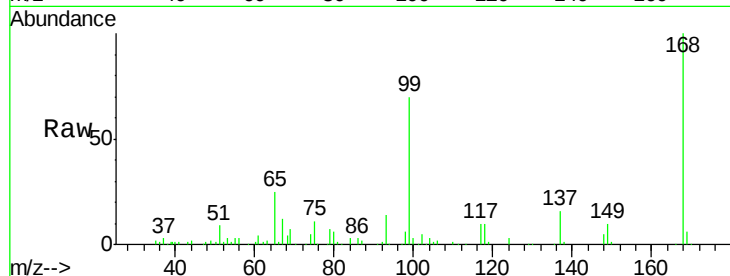
ClientSampleId :

Tot Ion:168 Resp: 157673

Ion Ratio Lower Upper

168 100

99 69.8 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

30000

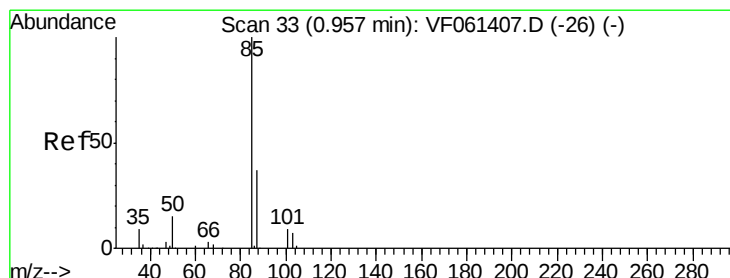
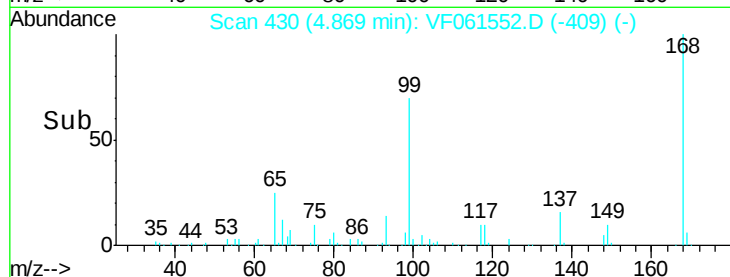
20000

10000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 44.996 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061552.D

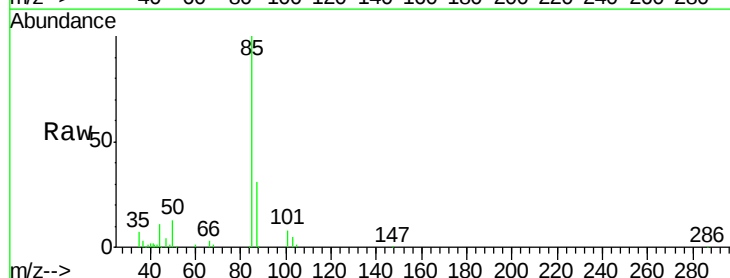
Acq: 7 Feb 2019 18:39

Tgt Ion: 85 Resp: 139400

Ion Ratio Lower Upper

85 100

87 31.3 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

40000

30000

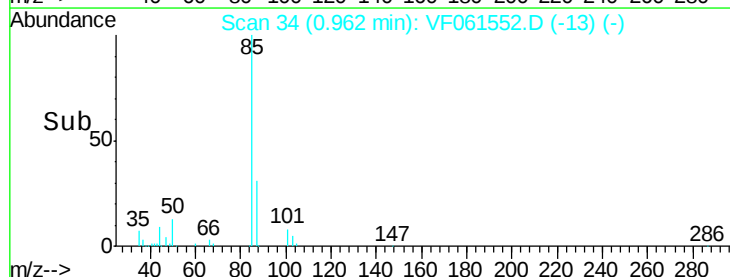
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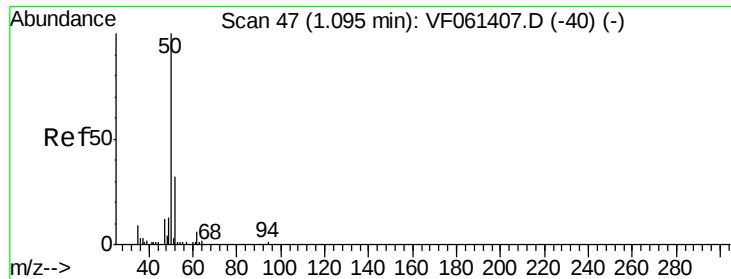
10000

0

Time-->

0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 42.534 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

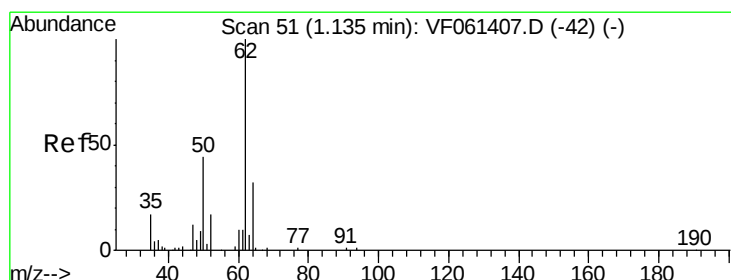
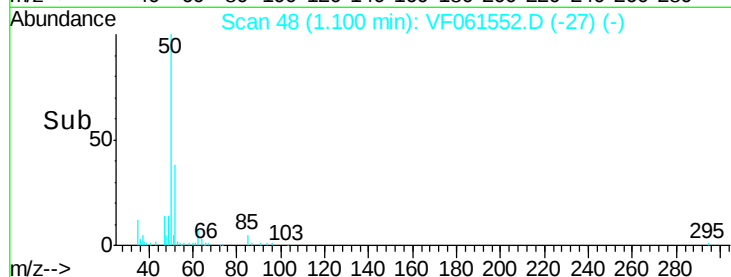
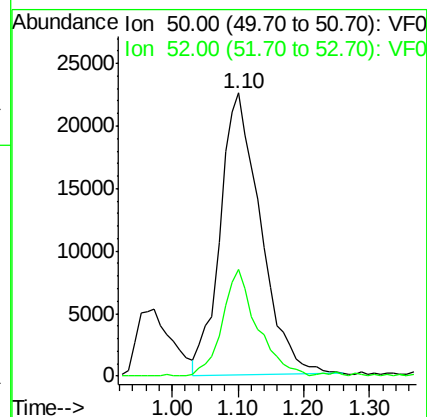
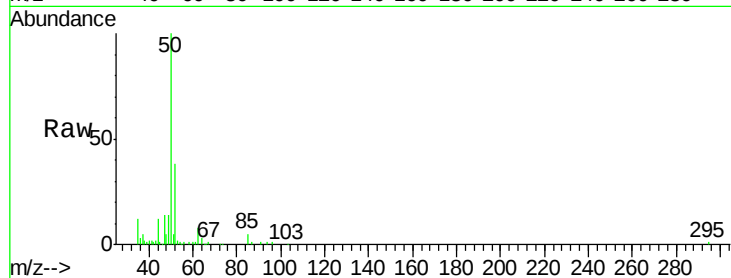
ClientSampleId :

Tot Ion: 50 Resp: 96621

Ion Ratio Lower Upper

50 100

52 37.8 24.6 36.8#



#4

Vinyl Chloride

Concen: 47.121 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061552.D

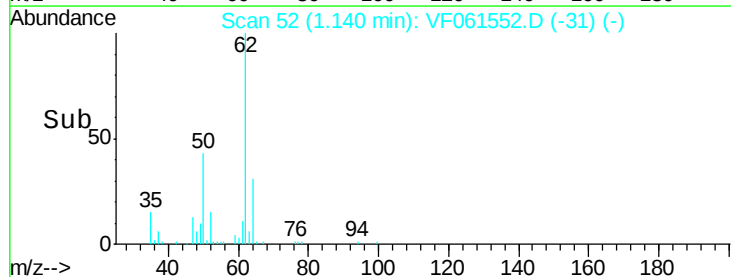
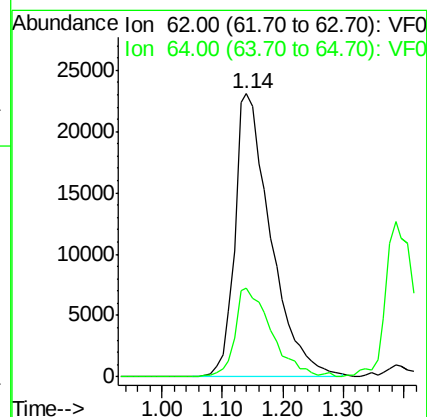
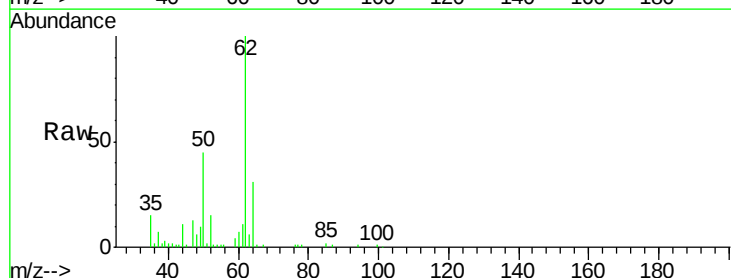
Acq: 7 Feb 2019 18:39

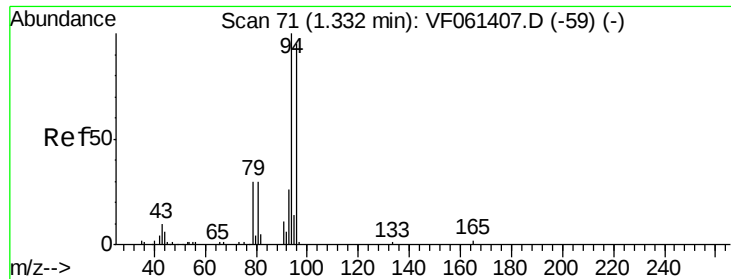
Tgt Ion: 62 Resp: 95218

Ion Ratio Lower Upper

62 100

64 31.5 25.6 38.4





#5

Bromomethane

Concen: 50.850 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

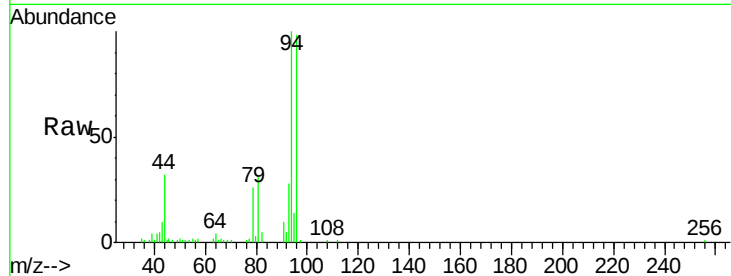
ClientSampleId :

Tot Ion: 94 Resp: 67005

Ion Ratio Lower Upper

94 100

96 97.5 76.0 114.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

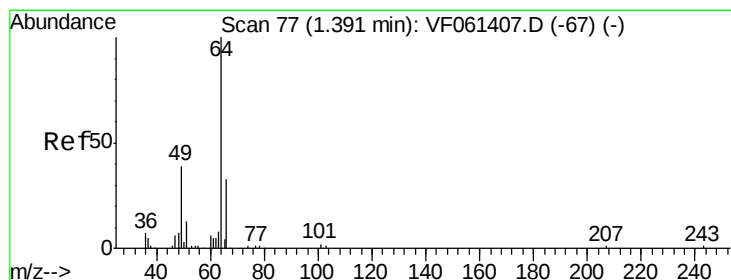
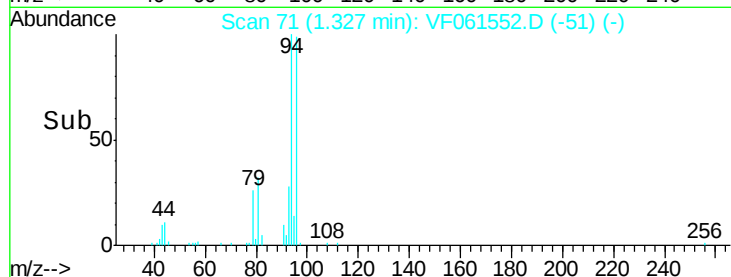
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 49.471 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061552.D

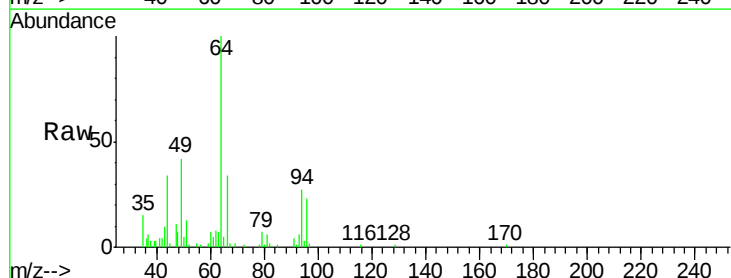
Acq: 7 Feb 2019 18:39

Tgt Ion: 64 Resp: 44296

Ion Ratio Lower Upper

64 100

66 33.7 26.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

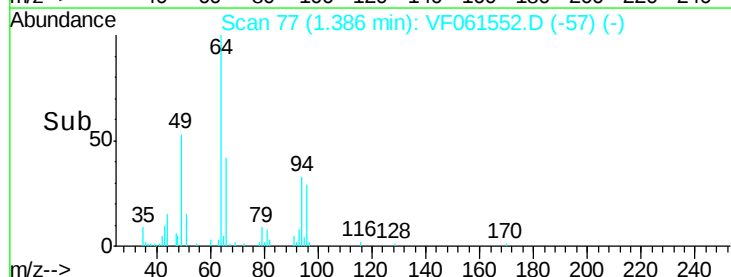
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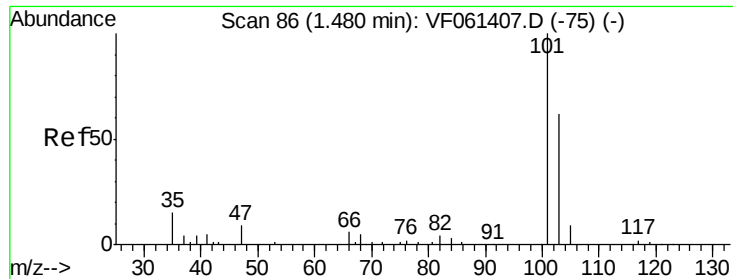
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5000

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Time-->



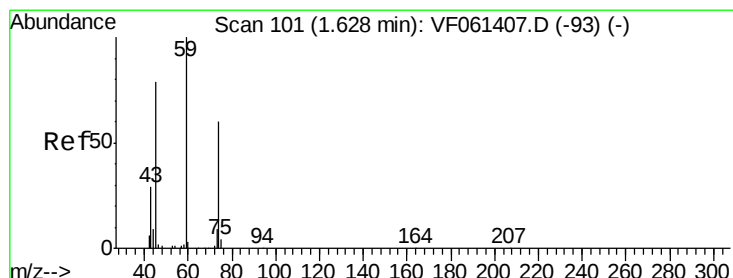
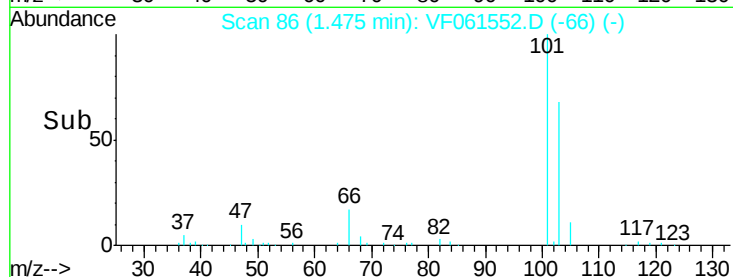
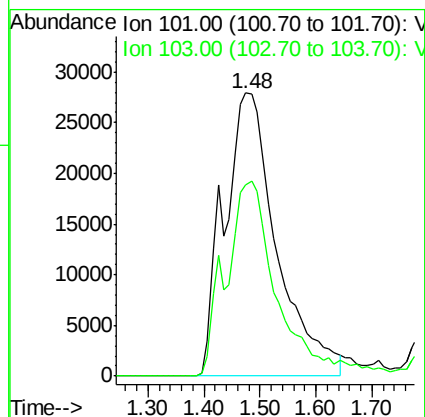
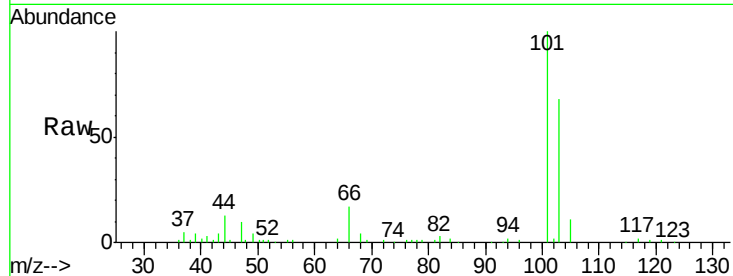


#7

Trichlorofluoromethane
Concen: 46.554 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.00 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

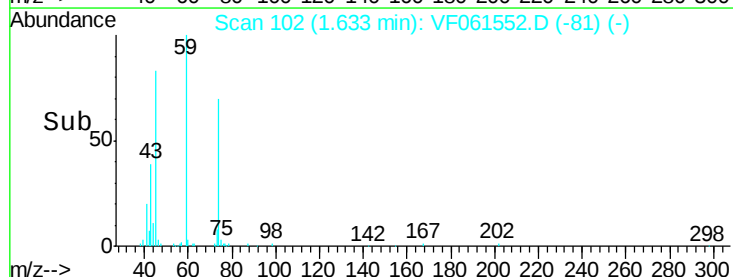
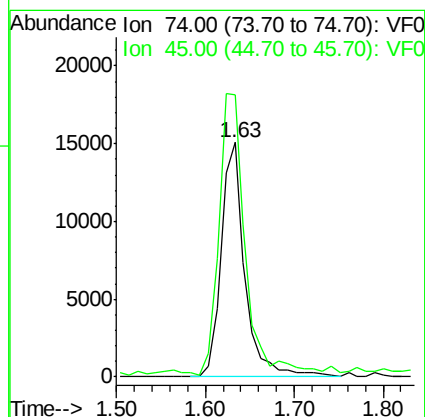
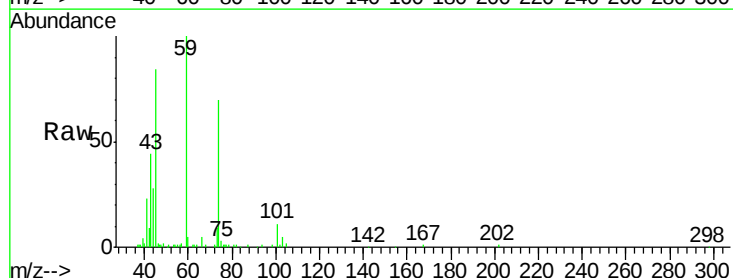
Tot Ion:101 Resp: 182880
Ion Ratio Lower Upper
101 100
103 67.5 49.7 74.5

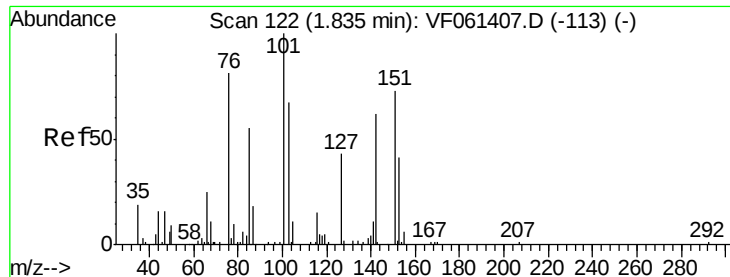


#8

Diethyl Ether
Concen: 55.931 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 74 Resp: 28153
Ion Ratio Lower Upper
74 100
45 120.5 65.8 197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.750 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampleId :

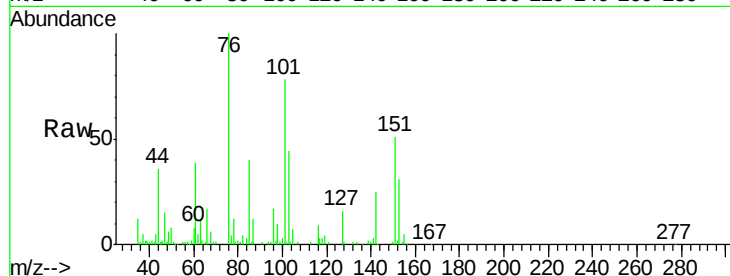
Tot Ion:101 Resp: 86355

Ion Ratio Lower Upper

101 100

85 51.1 41.9 62.9

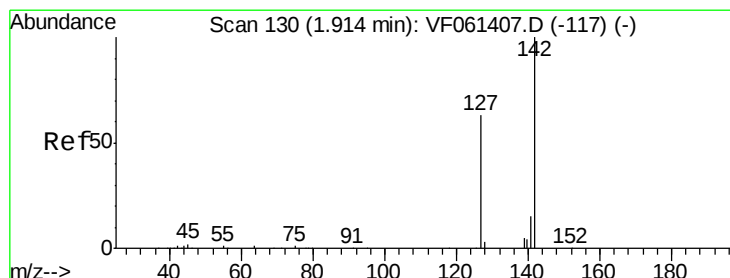
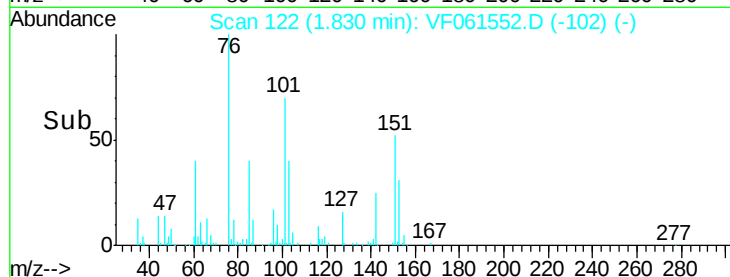
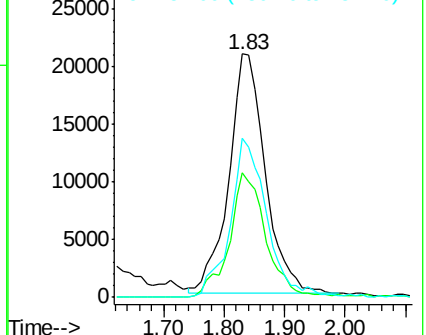
151 65.5 55.1 82.7



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: 39.147 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.00 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

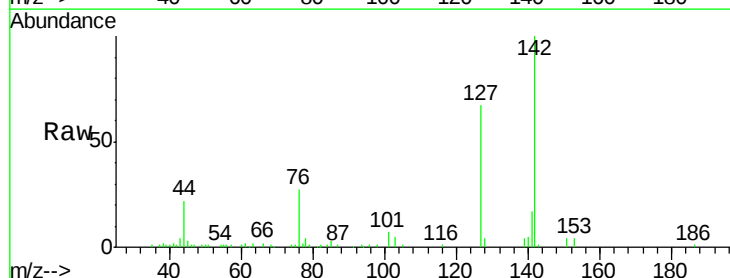
Tgt Ion:142 Resp: 114555

Ion Ratio Lower Upper

142 100

127 66.9 50.7 76.1

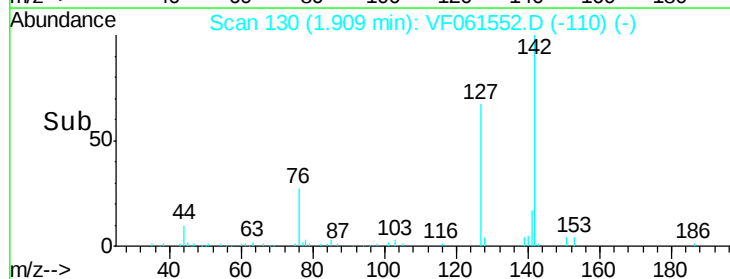
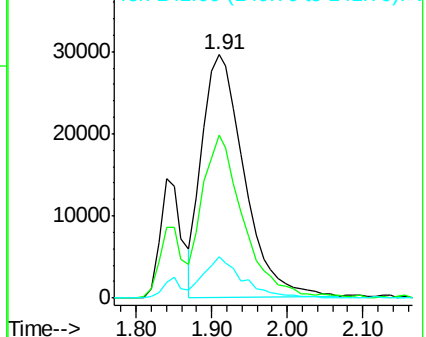
141 16.8 11.8 17.6

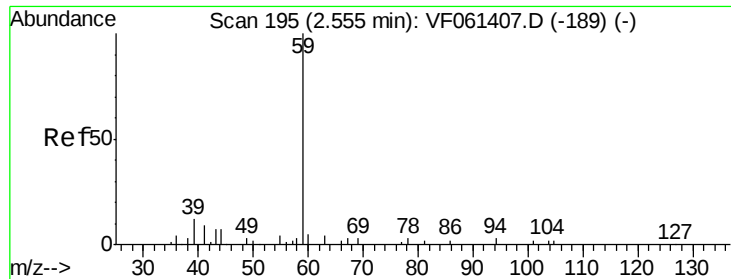


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



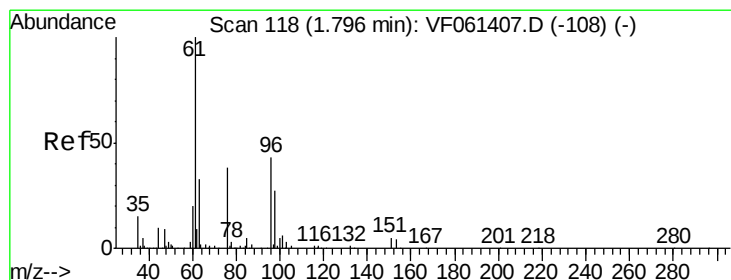
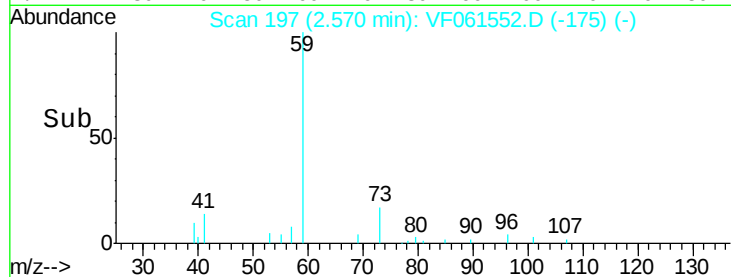
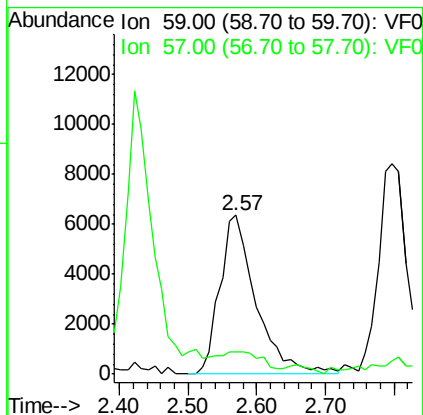
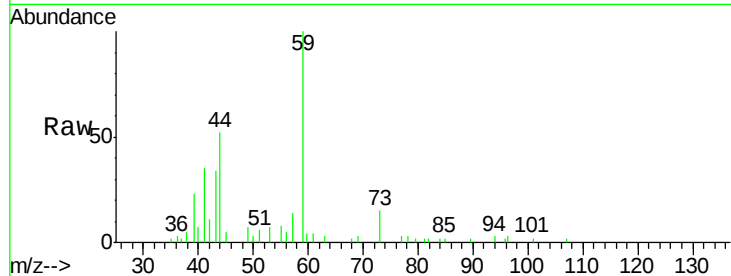


#11

Tert butyl alcohol
Concen: 283.267 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

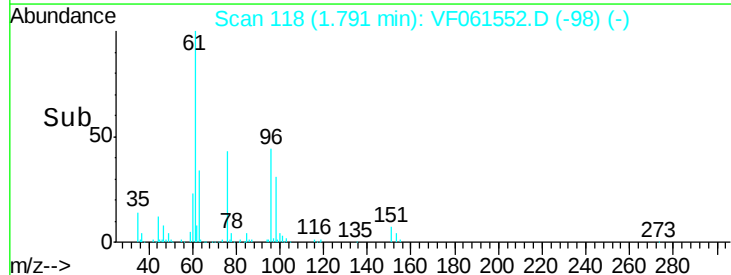
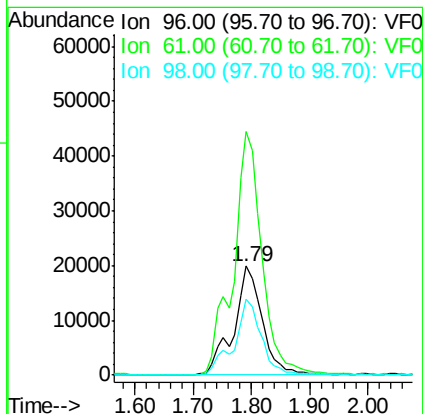
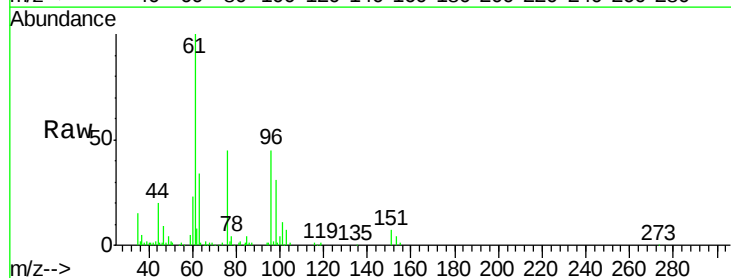
Tot Ion: 59 Resp: 23341
Ion Ratio Lower Upper
59 100
57 14.2 11.9 17.9

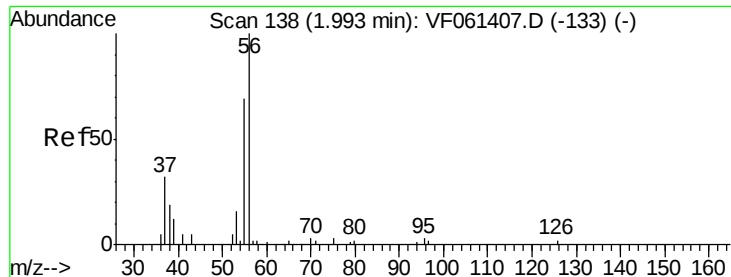


#12

1,1-Dichloroethene
Concen: 49.137 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 96 Resp: 68907
Ion Ratio Lower Upper
96 100
61 223.8 186.9 280.3
98 69.3 53.0 79.4





#13

Acrolein

Concen: 173.138 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

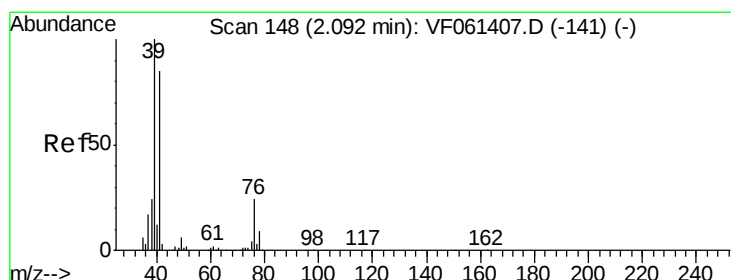
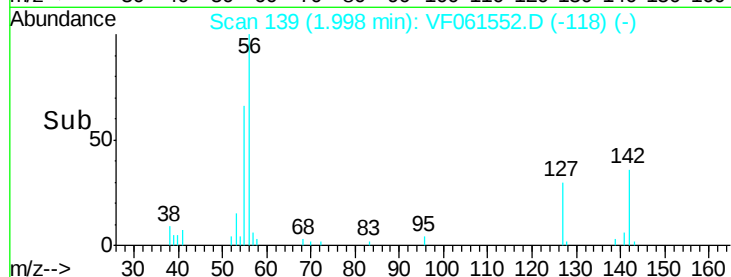
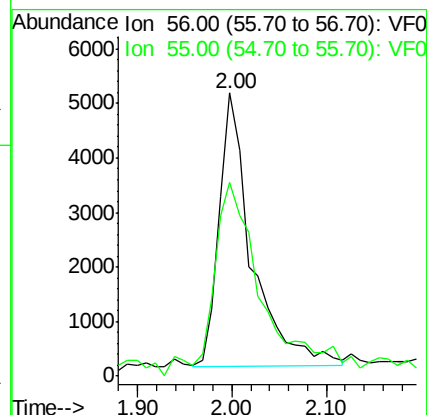
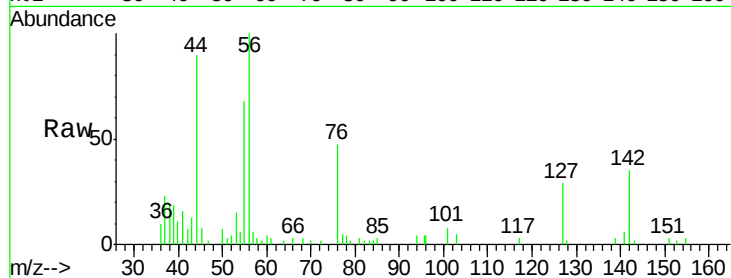
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 12053

Ion Ratio Lower Upper

56 100

55 68.4 57.5 86.3



#14

Allyl chloride

Concen: 65.667 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

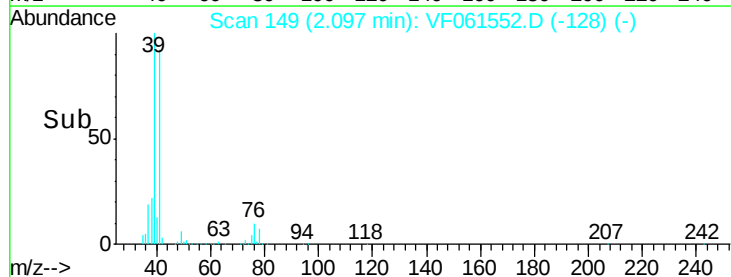
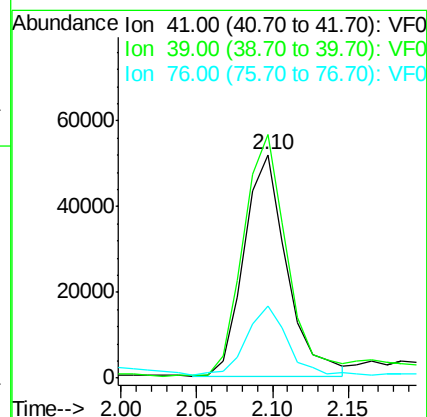
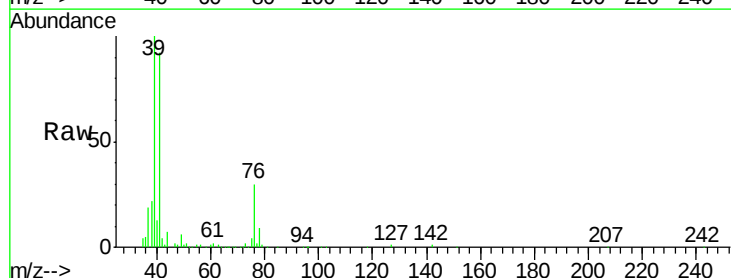
Tgt Ion: 41 Resp: 102059

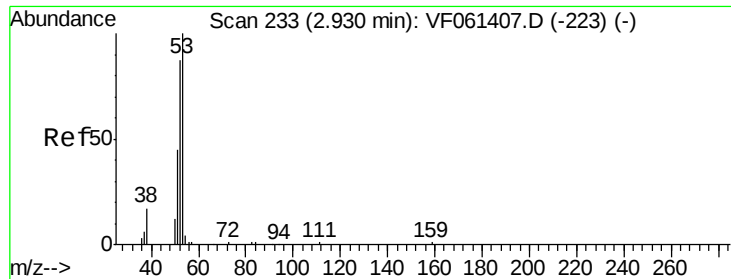
Ion Ratio Lower Upper

41 100

39 108.8 94.6 141.8

76 32.3 25.9 38.9





#15

Acrylonitrile

Concen: 281.652 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

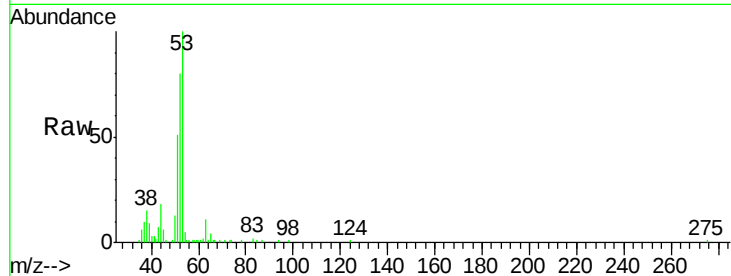
Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 53 Resp: 59447

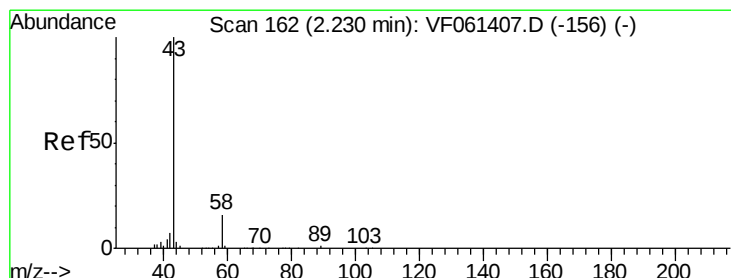
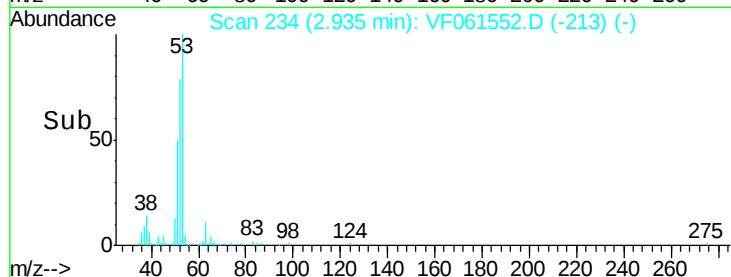
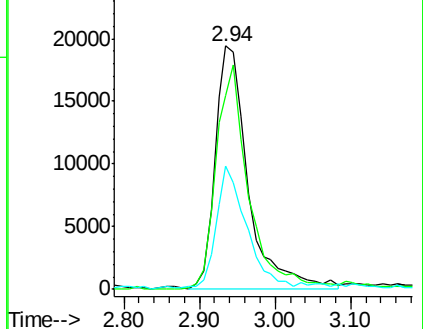
Ion	Ratio	Lower	Upper
53	100		
52	79.6	69.6	104.4
51	50.7	36.8	55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 269.795 ug/l

RT: 2.23 min Scan# 163

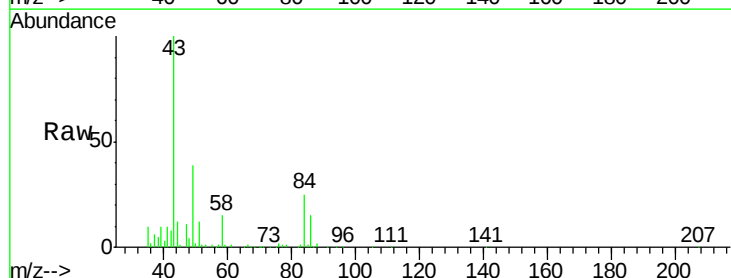
Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

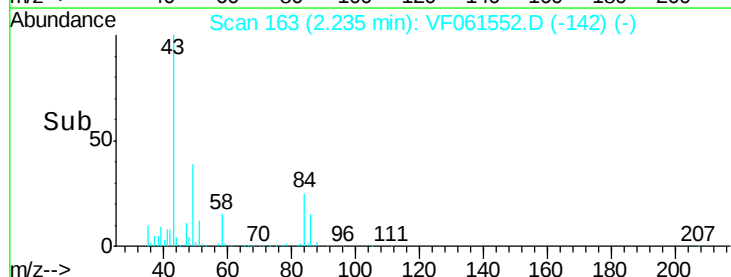
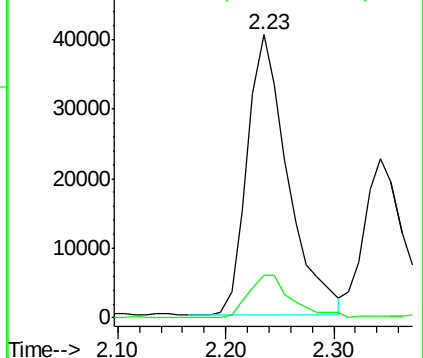
Tgt Ion: 43 Resp: 105362

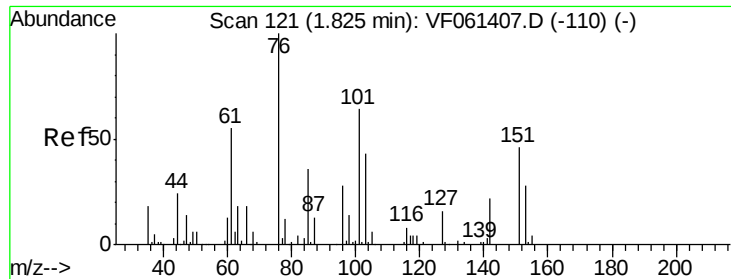
Ion	Ratio	Lower	Upper
43	100		
58	15.0	13.3	19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

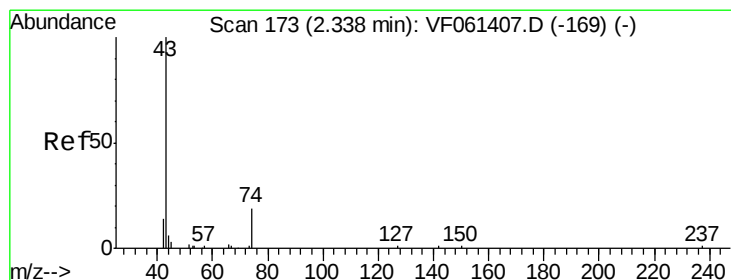
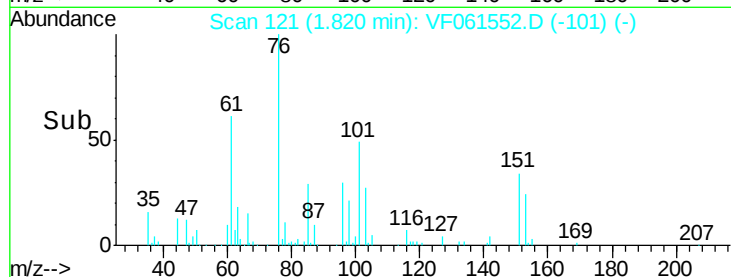
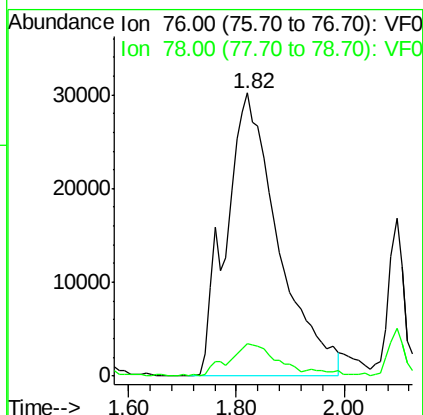
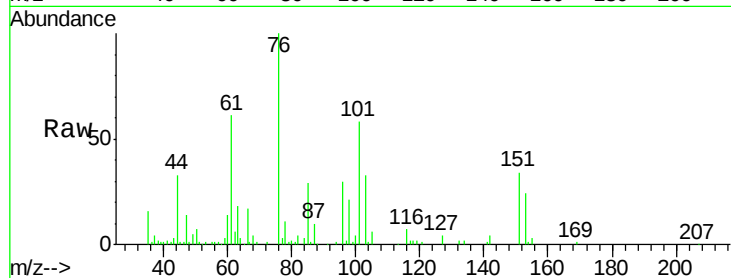




#17
Carbon Disulfide
Concen: 46.587 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.00 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

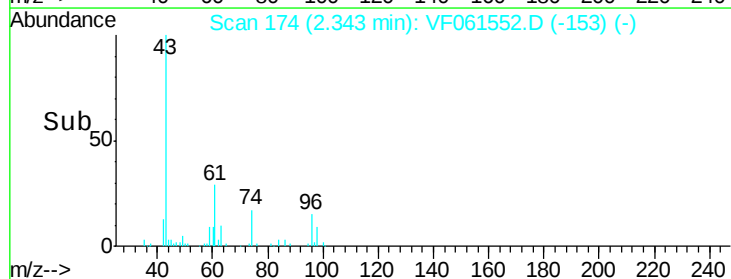
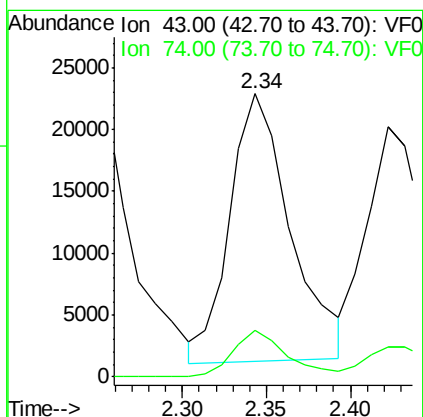
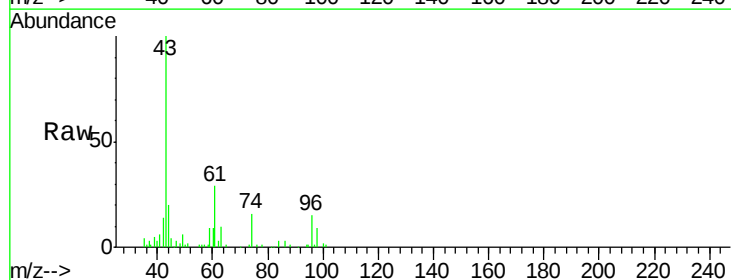
Instrument :
MSVOA_F
ClientSampleId :

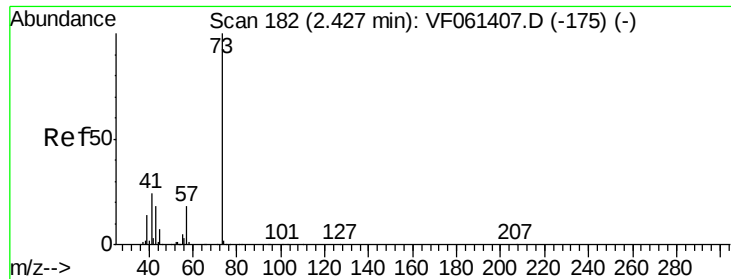
Tot Ion: 76 Resp: 203707
Ion Ratio Lower Upper
76 100
78 11.3 9.6 14.4



#18
Methyl Acetate
Concen: 69.561 ug/l
RT: 2.34 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 43 Resp: 53873
Ion Ratio Lower Upper
43 100
74 16.3 13.4 20.0

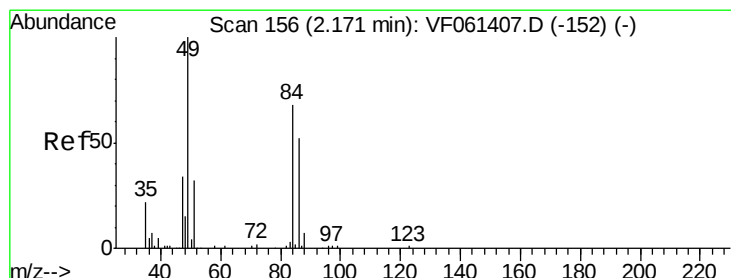
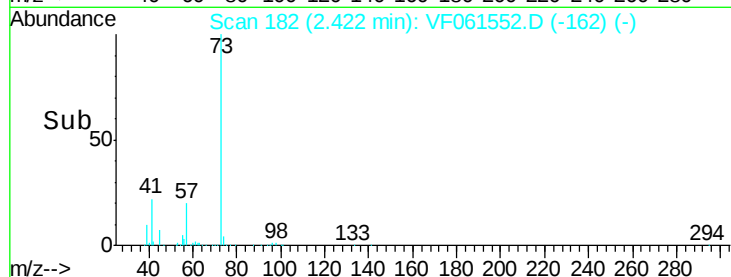
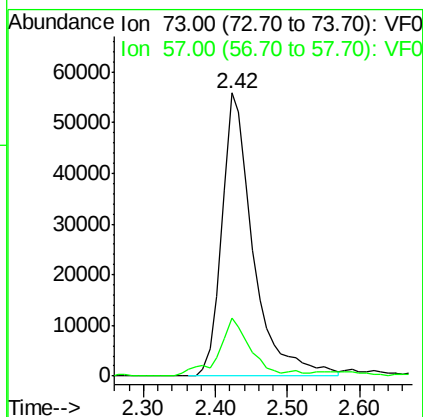
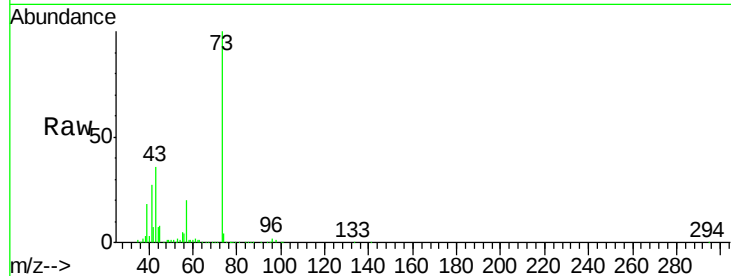




#19
Methyl tert-butyl Ether
Concen: 53.187 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

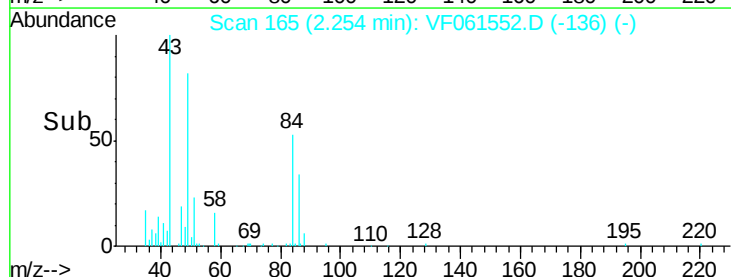
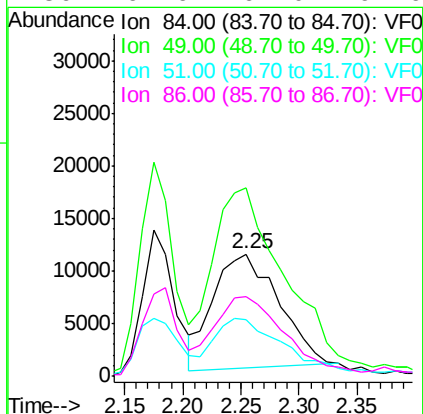
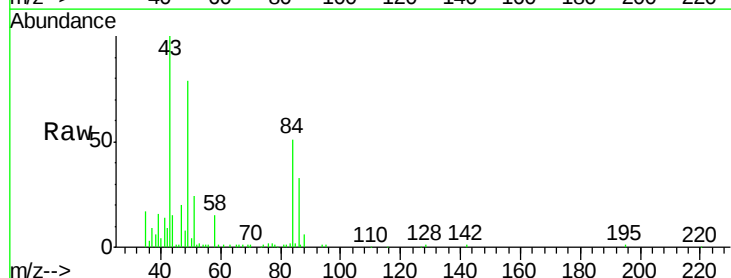
Instrument :
MSVOA_F
ClientSampleId :

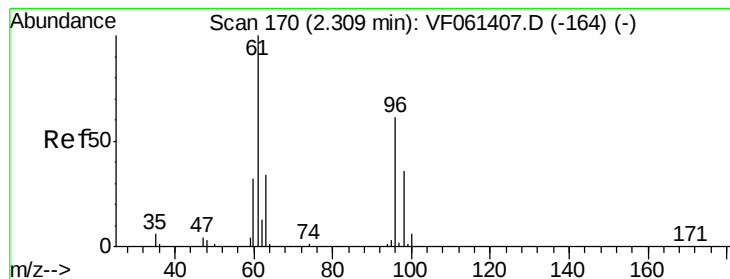
Tot Ion: 73 Resp: 167201
Ion Ratio Lower Upper
73 100
57 20.3 14.8 22.2



#20
Methylene Chloride
Concen: 31.412 ug/l
RT: 2.25 min Scan# 165
Delta R.T. 0.08 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 84 Resp: 42508
Ion Ratio Lower Upper
84 100
49 154.1 120.0 180.0
51 46.5 38.6 58.0
86 64.6 61.0 91.6





#21

trans-1,2-Dichloroethene

Concen: 47.184 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

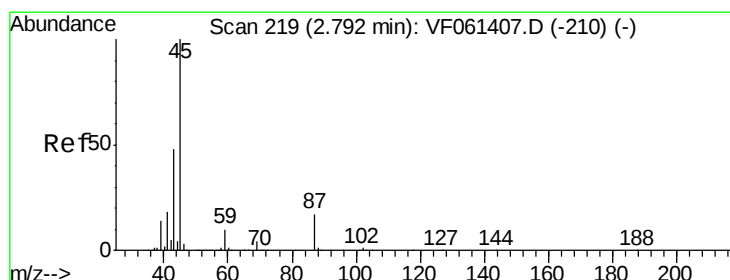
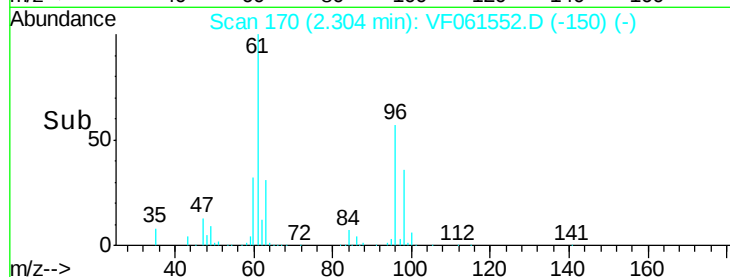
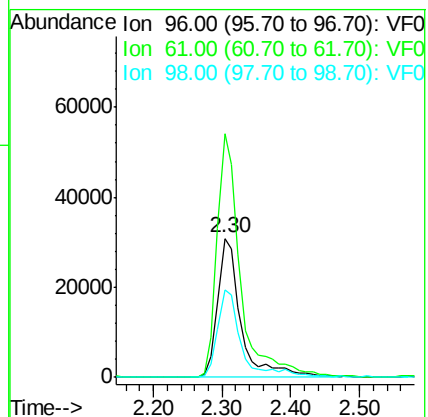
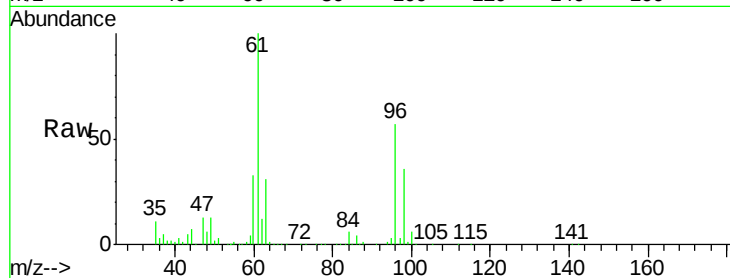
Tot Ion: 96 Resp: 72800

Ion Ratio Lower Upper

96 100

61 175.3 131.8 197.8

98 62.6 47.4 71.0



#22

Diisopropyl ether

Concen: 53.588 ug/l

RT: 2.80 min Scan# 220

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Tgt Ion: 45 Resp: 267428

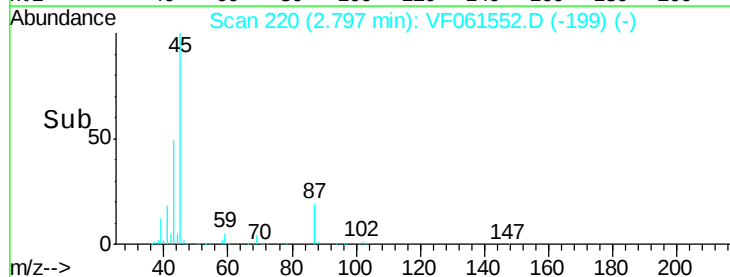
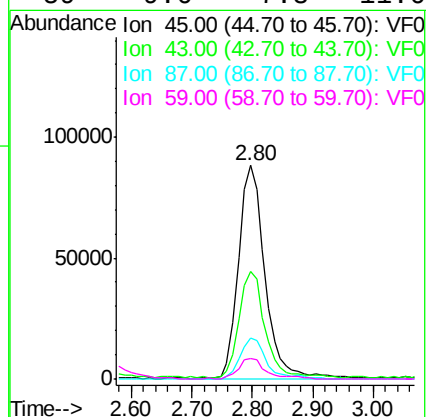
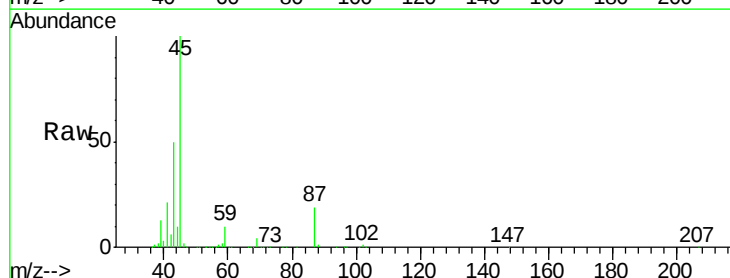
Ion Ratio Lower Upper

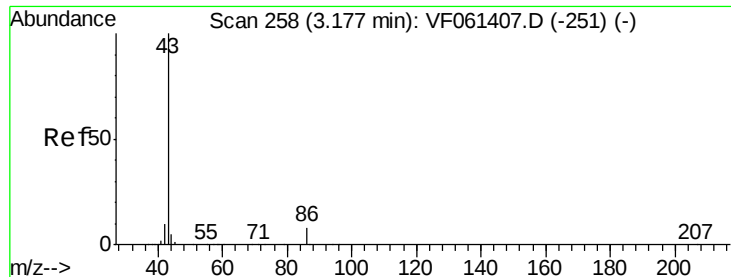
45 100

43 50.4 39.0 58.6

87 19.0 13.9 20.9

59 9.6 7.8 11.6





#23

Vinyl Acetate

Concen: 235.198 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

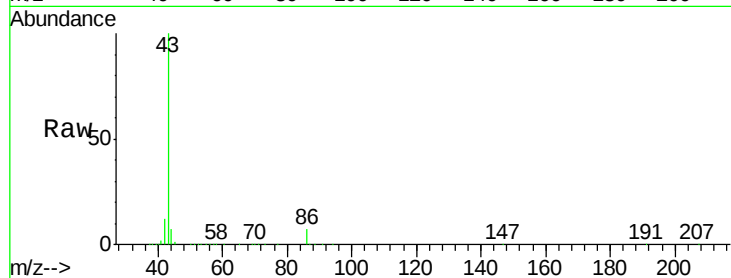
ClientSampleId :

Tot Ion: 43 Resp: 515850

Ion Ratio Lower Upper

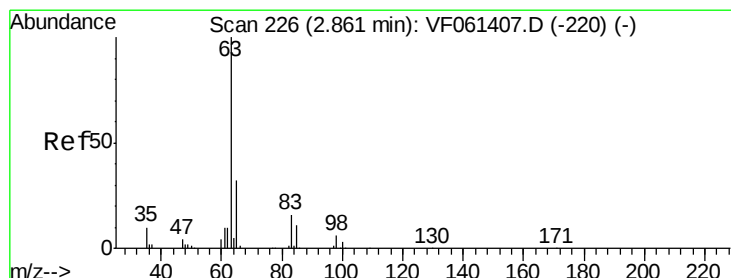
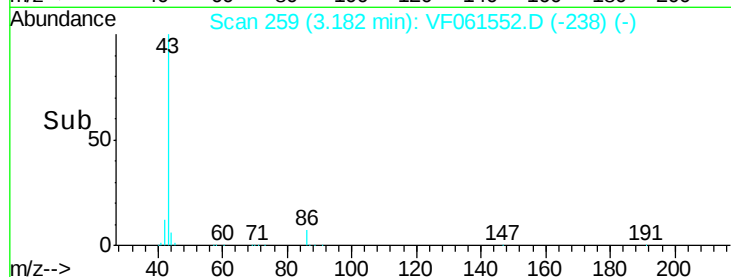
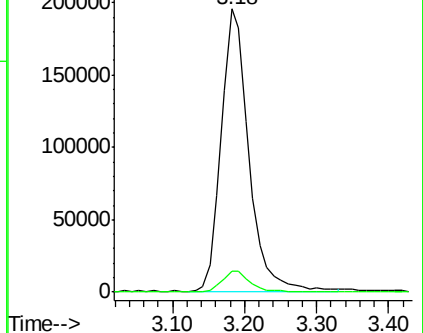
43 100

86 7.4 6.2 9.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 50.712 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

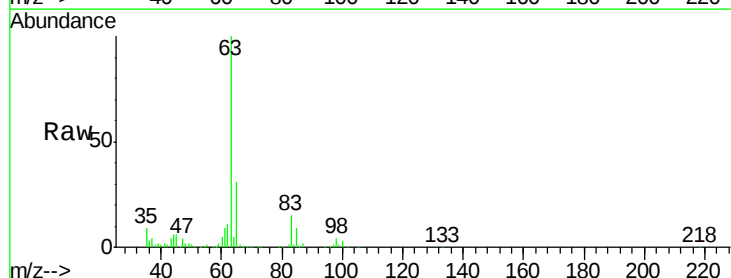
Tgt Ion: 63 Resp: 158838

Ion Ratio Lower Upper

63 100

98 4.4 2.9 8.8

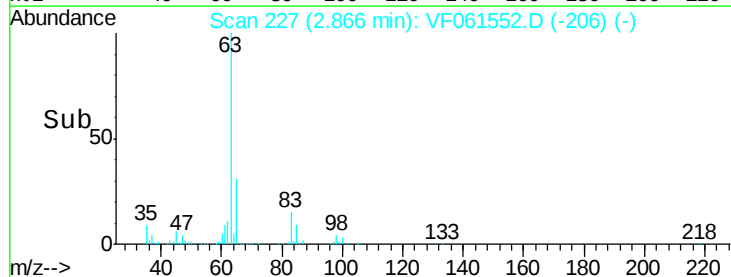
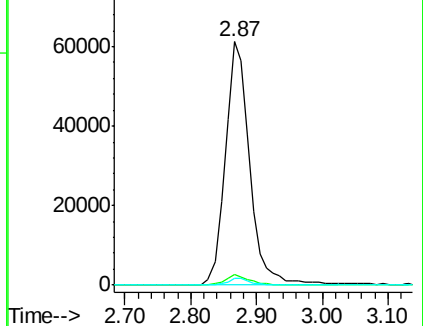
100 2.7 1.6 4.8

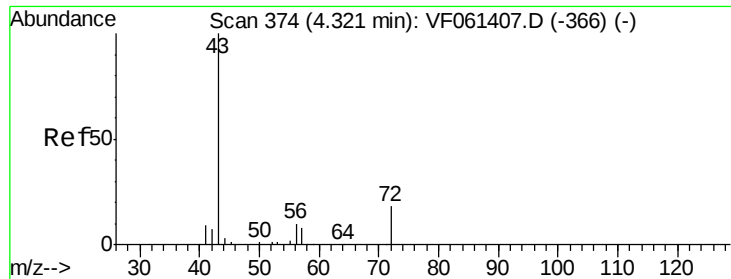


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 275.921 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

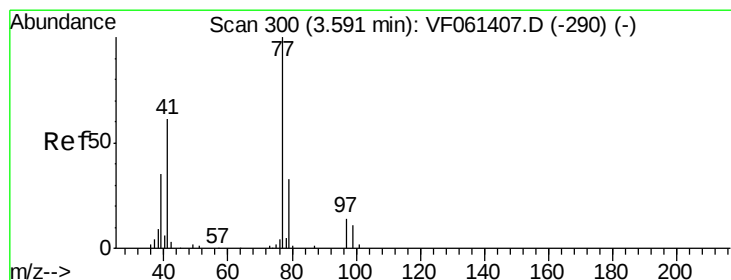
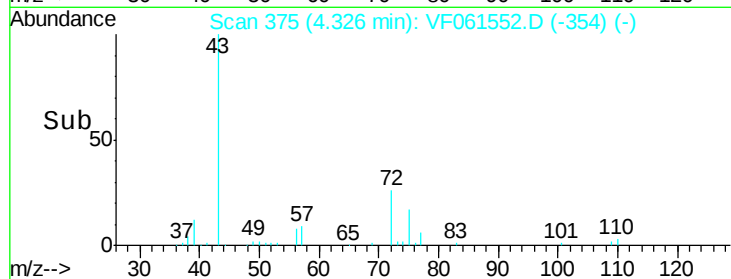
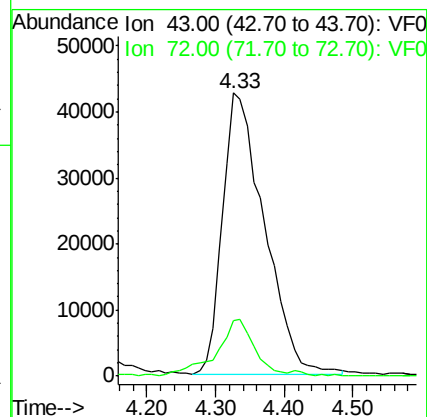
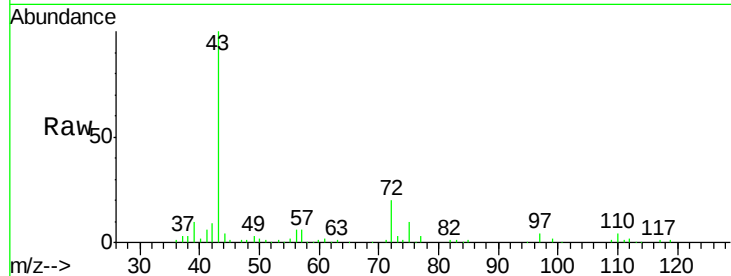
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 179191

Ion Ratio Lower Upper

43 100

72 19.7 15.8 23.6



#26

2,2-Dichloropropane

Concen: 47.712 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061552.D

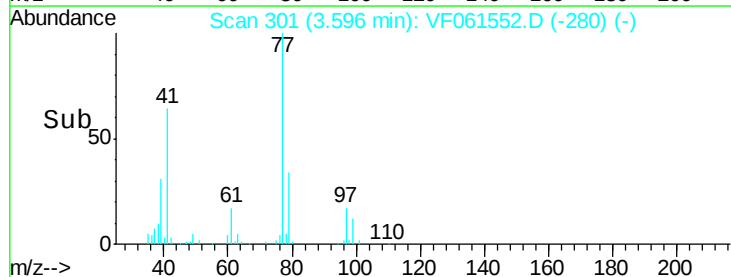
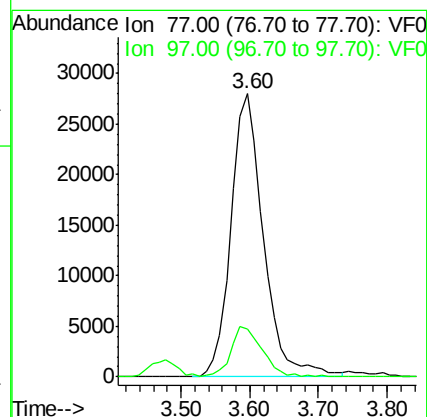
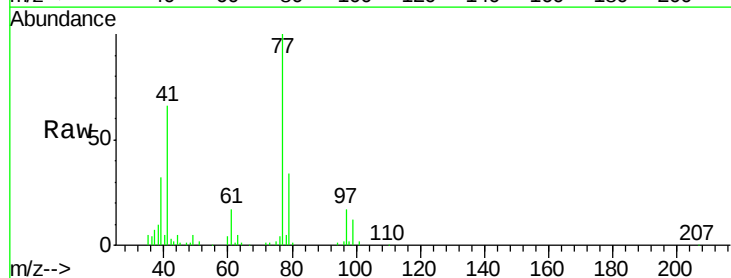
Acq: 7 Feb 2019 18:39

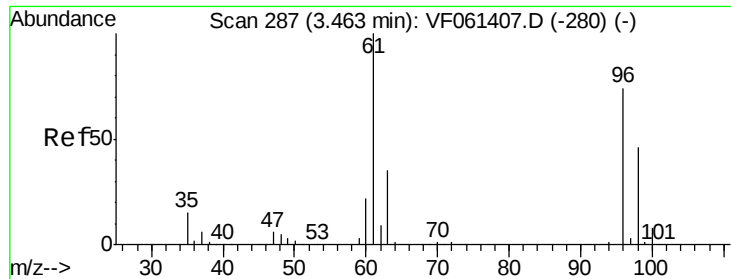
Tgt Ion: 77 Resp: 91815

Ion Ratio Lower Upper

77 100

97 17.1 8.5 25.5



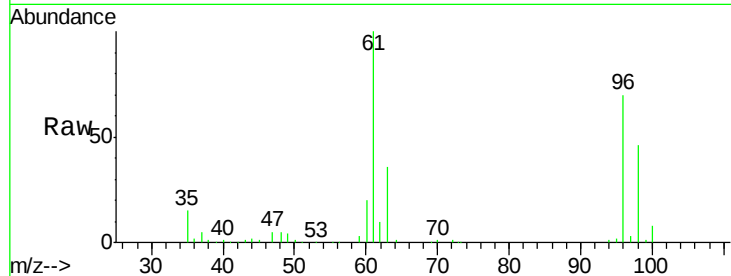


#27

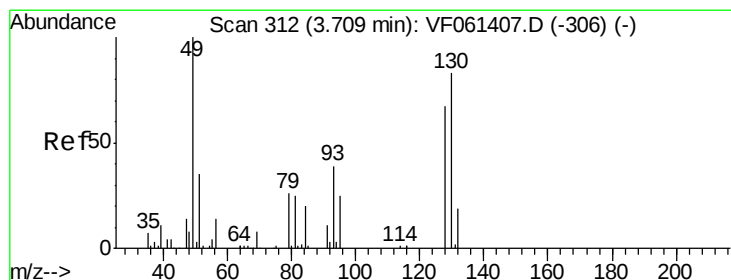
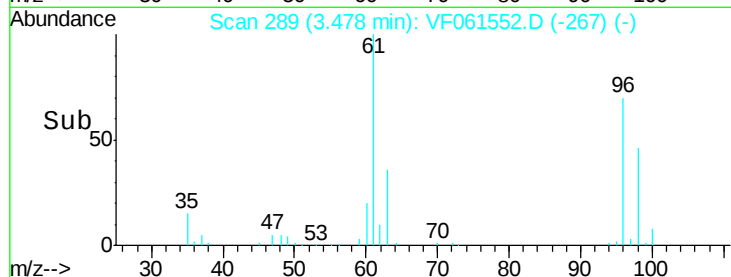
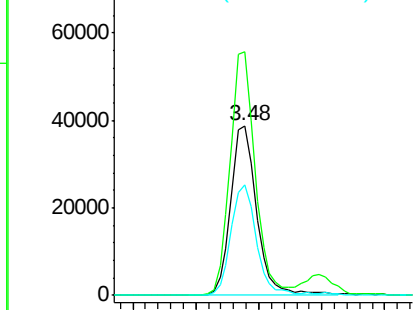
cis-1,2-Dichloroethene
Concen: 48.464 ug/l
RT: 3.48 min Scan# 289
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.6	0.0	270.2
98	65.5	0.0	124.0



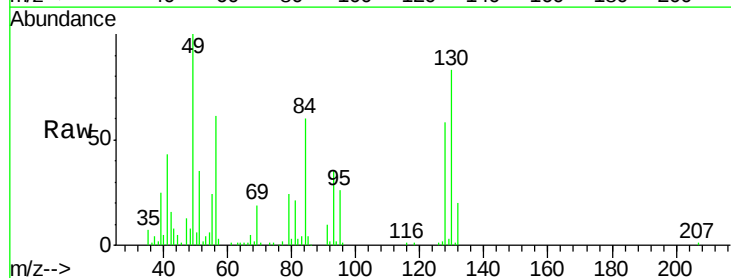
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



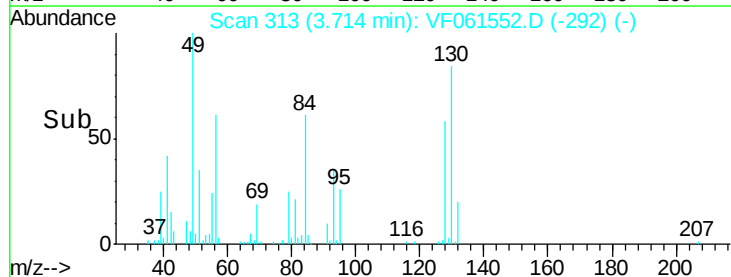
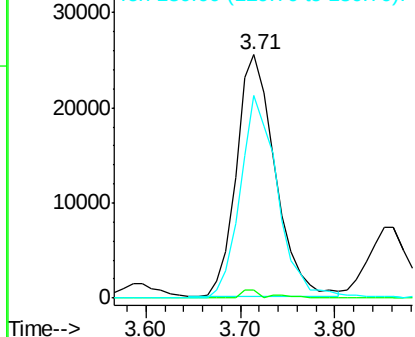
#28

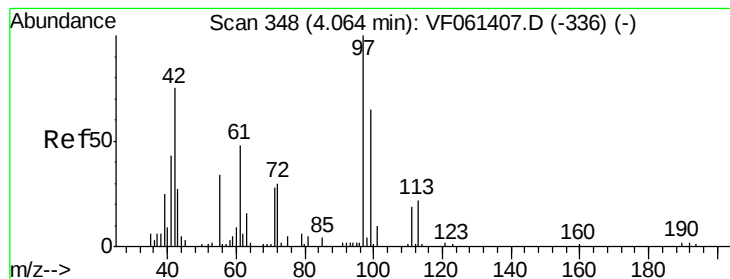
Bromochloromethane
Concen: 51.088 ug/l
RT: 3.71 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.1	0.0	0.0#
130	83.1	65.4	98.2



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 278.065 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampleId :

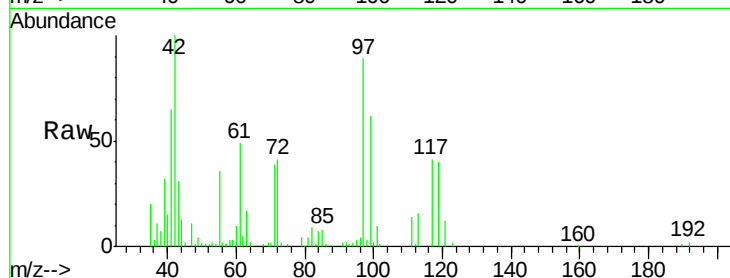
Tot Ion: 42 Resp: 77758

Ion Ratio Lower Upper

42 100

72 39.2 28.9 43.3

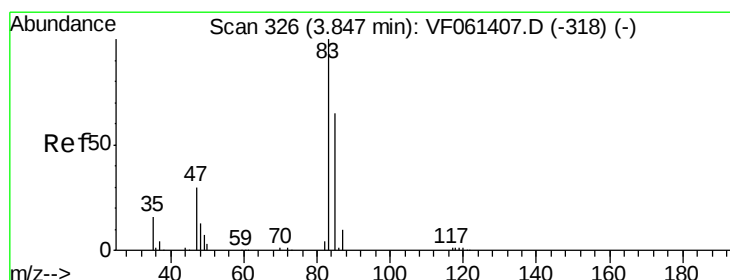
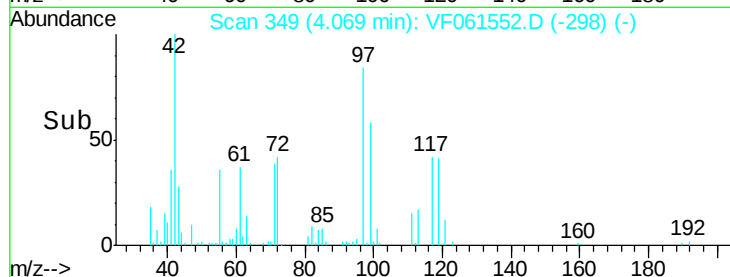
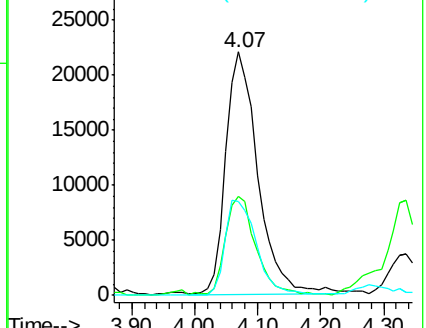
71 38.6 29.6 44.4



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 48.835 ug/l

RT: 3.85 min Scan# 327

Delta R.T. 0.01 min

Lab File: VF061552.D

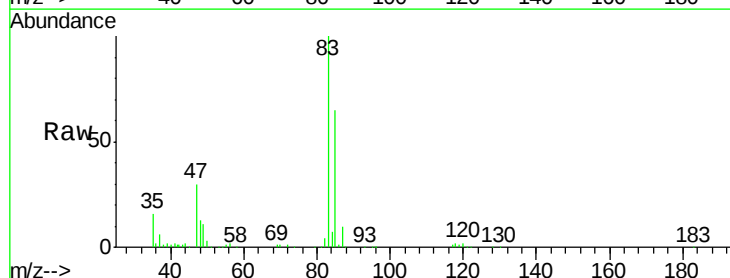
Acq: 7 Feb 2019 18:39

Tgt Ion: 83 Resp: 206427

Ion Ratio Lower Upper

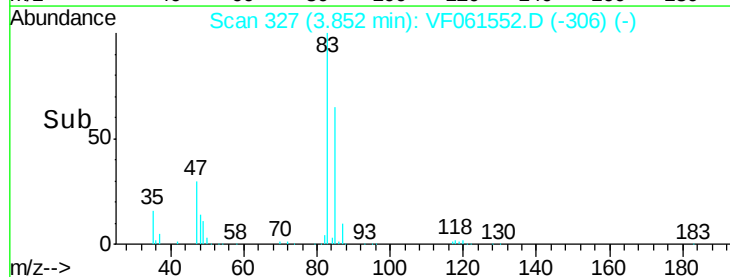
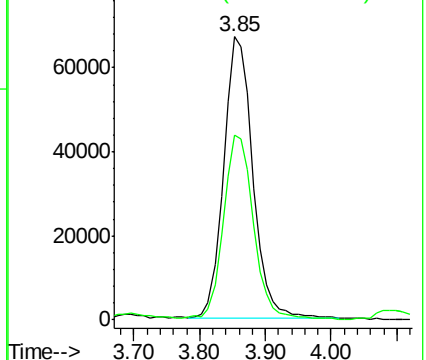
83 100

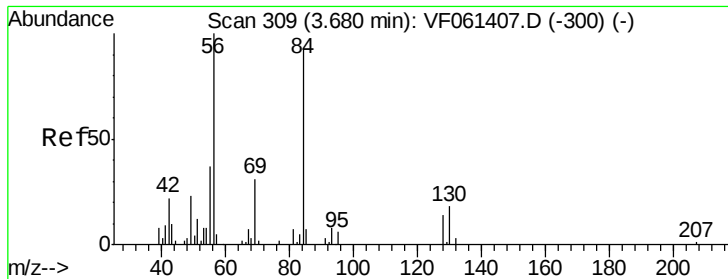
85 65.4 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 32.074 ug/l

RT: 3.69 min Scan# 311

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

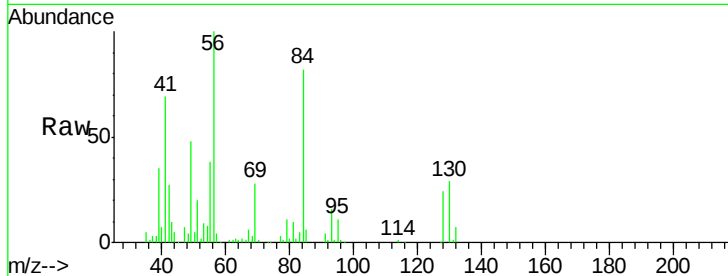
Tot Ion: 56 Resp: 100349

Ion Ratio Lower Upper

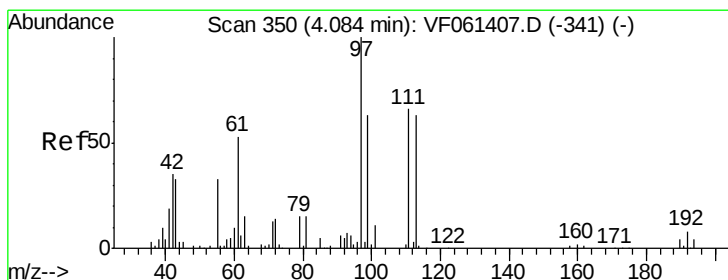
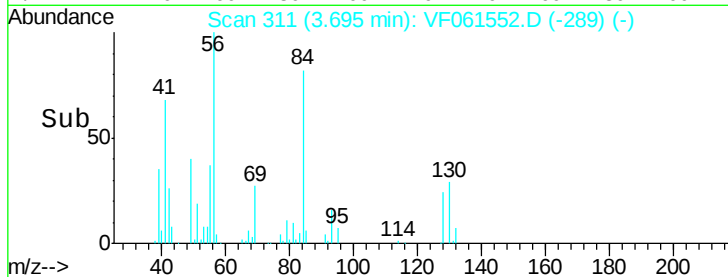
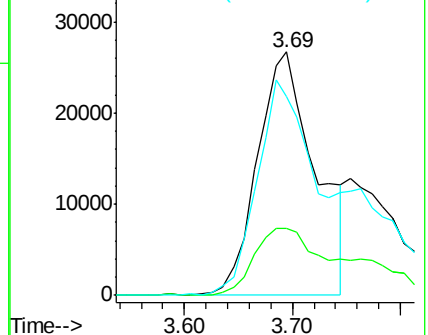
56 100

69 27.7 24.6 36.8

84 81.8 74.2 111.2



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



#32

1,1,1-Trichloroethane

Concen: 45.712 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

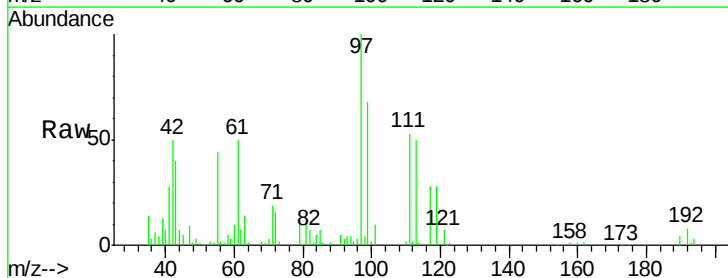
Tgt Ion: 97 Resp: 141681

Ion Ratio Lower Upper

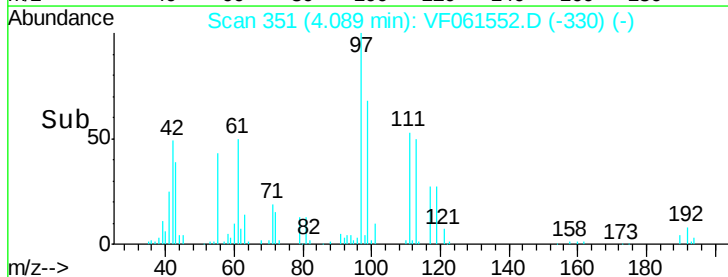
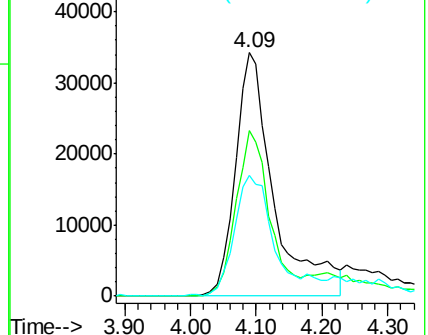
97 100

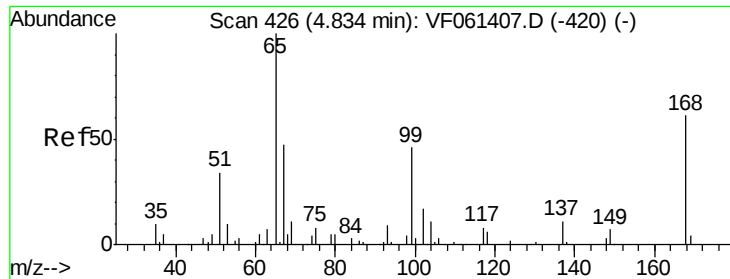
99 68.0 50.1 75.1

61 49.8 43.1 64.7



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





#33

1,2-Dichloroethane-d4

Concen: 48.547 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

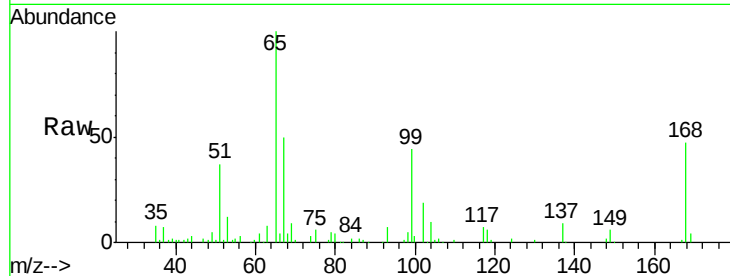
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 94505

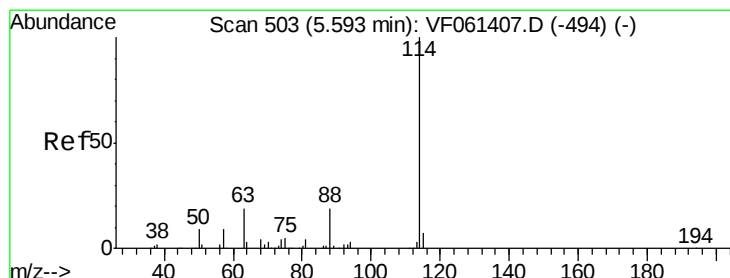
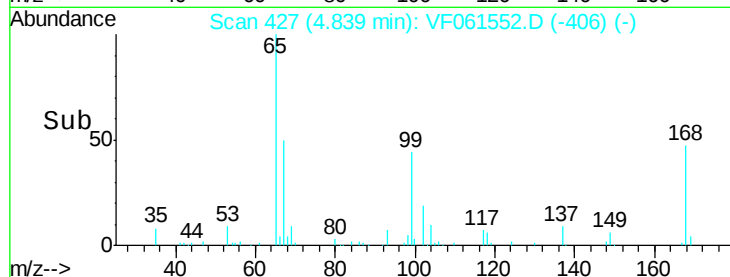
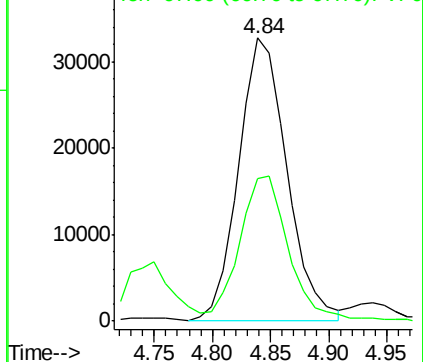
Ion Ratio Lower Upper

65 100

67 50.3 0.0 99.8



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



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

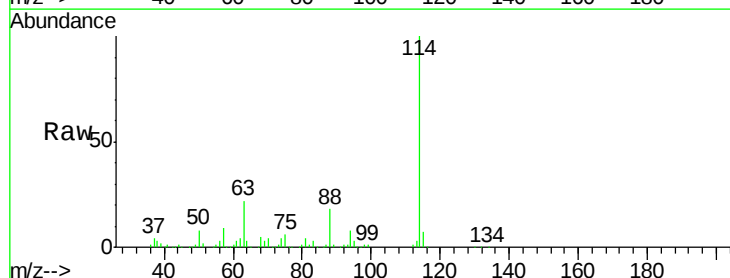
Tgt Ion: 114 Resp: 294337

Ion Ratio Lower Upper

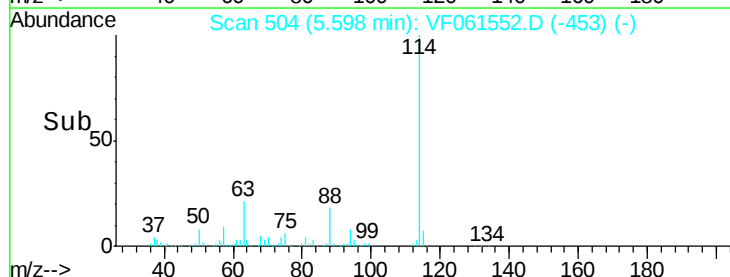
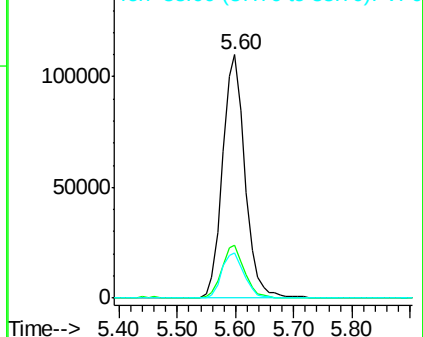
114 100

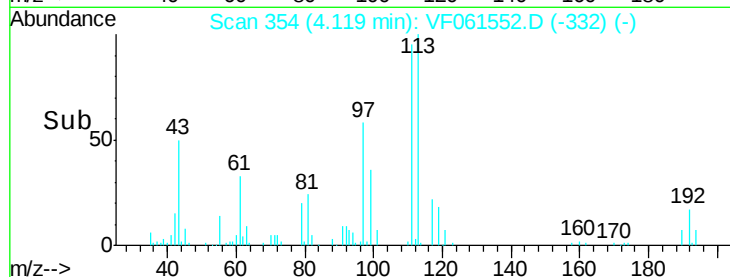
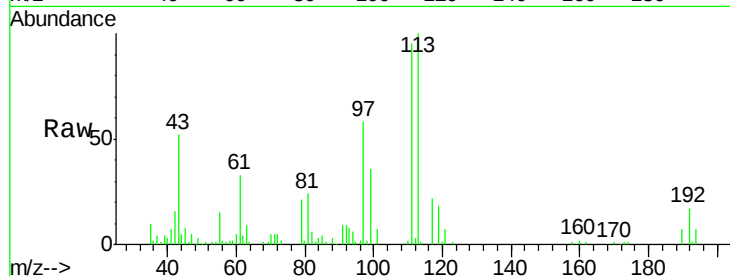
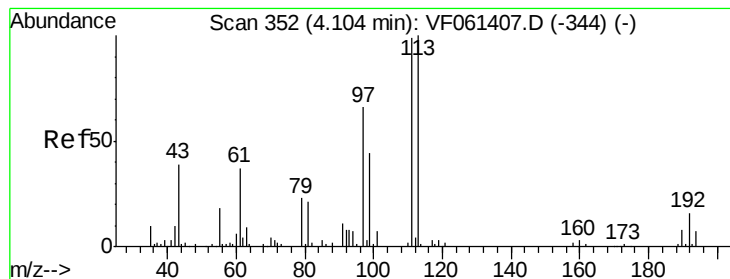
63 21.7 0.0 39.0

88 18.5 0.0 37.4



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





#35

Dibromofluoromethane

Concen: 45.138 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampleId :

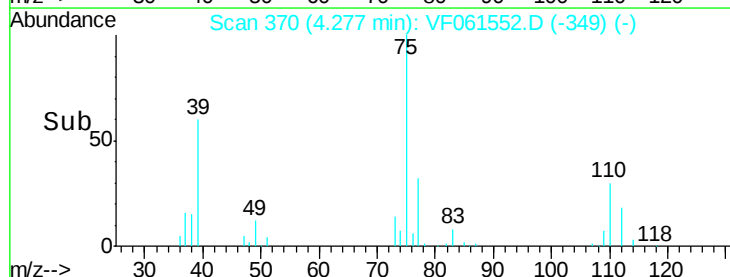
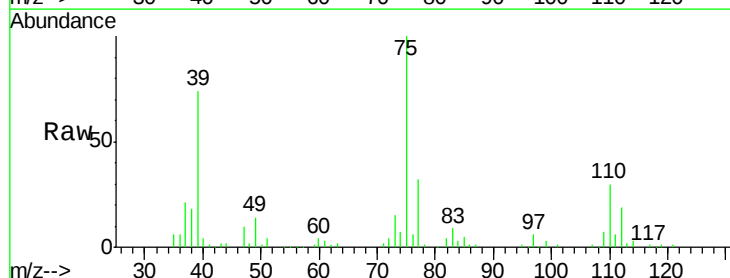
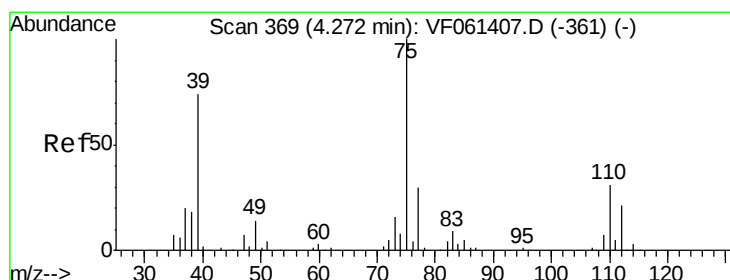
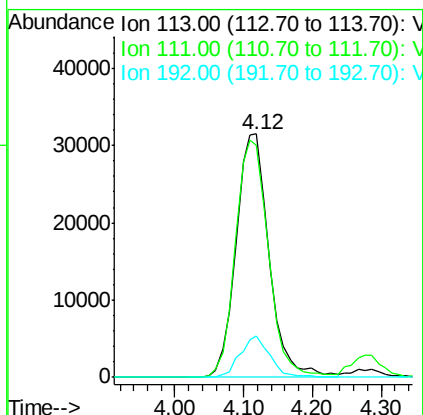
Tot Ion:113 Resp: 104836

Ion Ratio Lower Upper

113 100

111 95.3 79.4 119.0

192 17.3 12.4 18.6



#36

1,1-Dichloropropene

Concen: 45.777 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

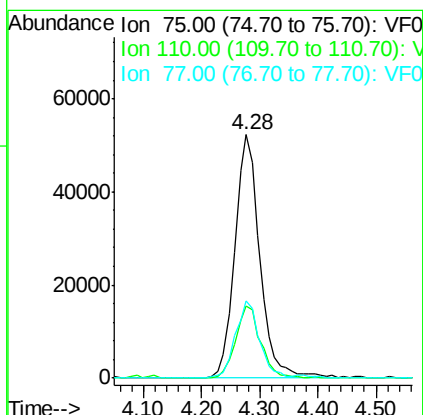
Tgt Ion: 75 Resp: 156224

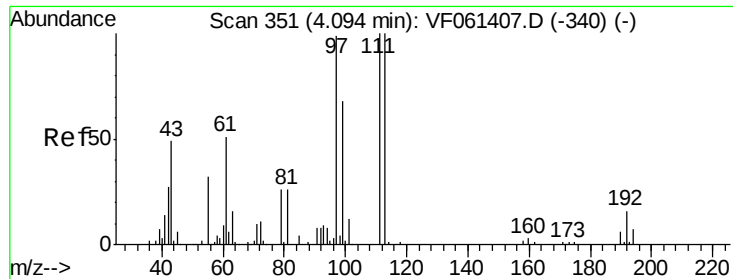
Ion Ratio Lower Upper

75 100

110 29.7 15.8 47.3

77 31.5 24.0 36.0

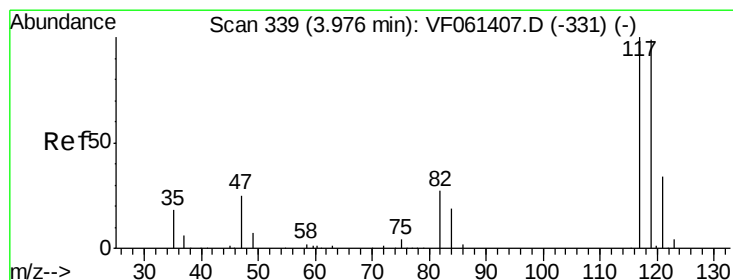
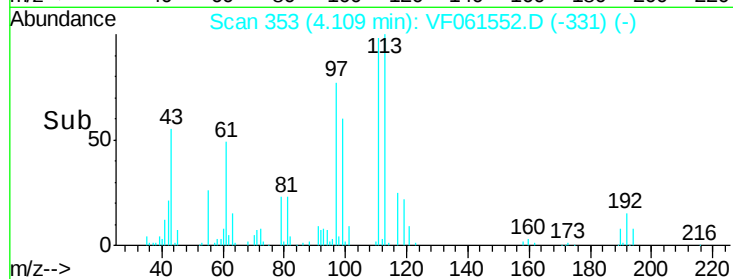
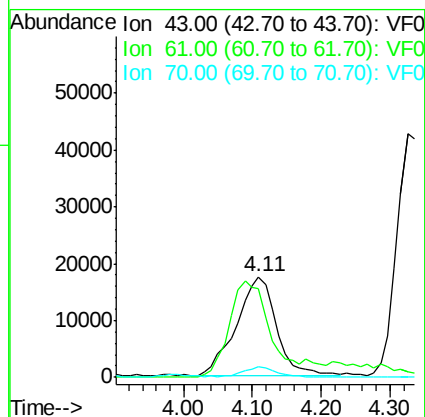
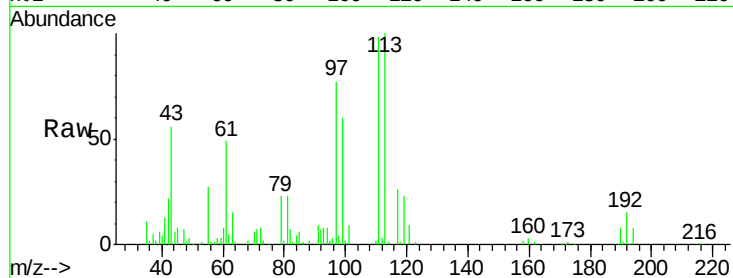




#37
Ethyl Acetate
Concen: 51.654 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

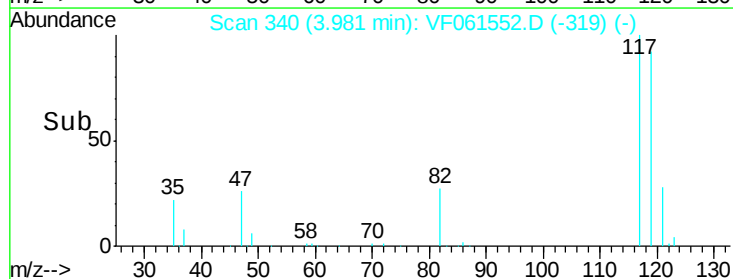
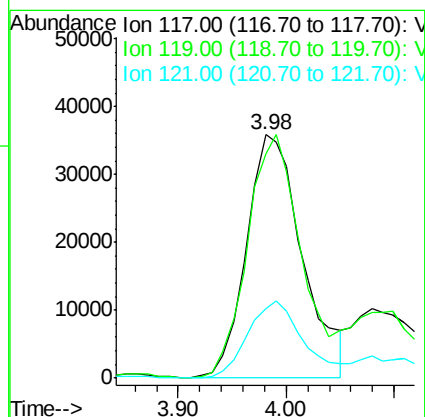
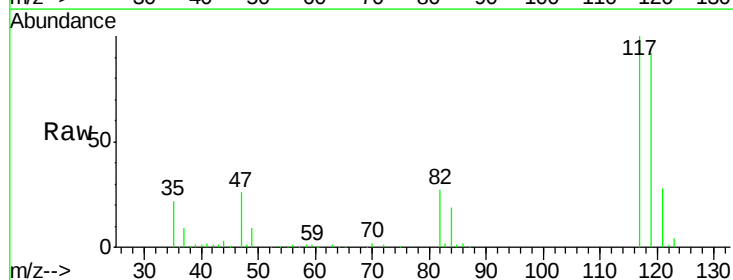
Instrument :
MSVOA_F
ClientSampled :

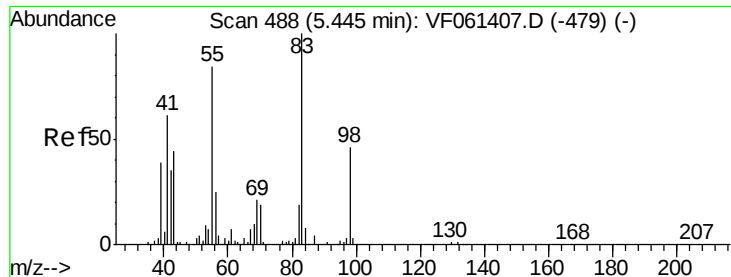
Tot Ion: 43 Resp: 70464
Ion Ratio Lower Upper
43 100
61 87.9 81.7 122.5
70 10.7 6.2 9.2#



#38
Carbon Tetrachloride
Concen: 43.191 ug/l
RT: 3.98 min Scan# 340
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 117 Resp: 128862
Ion Ratio Lower Upper
117 100
119 92.3 79.0 118.6
121 28.4 27.0 40.6

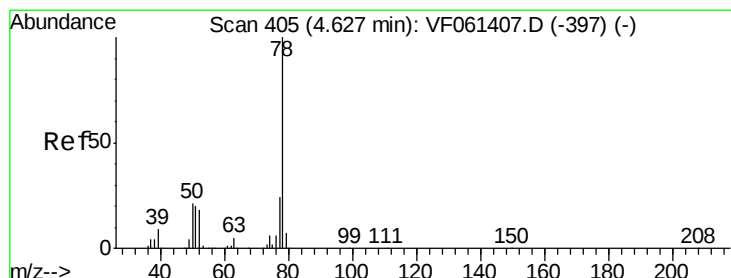
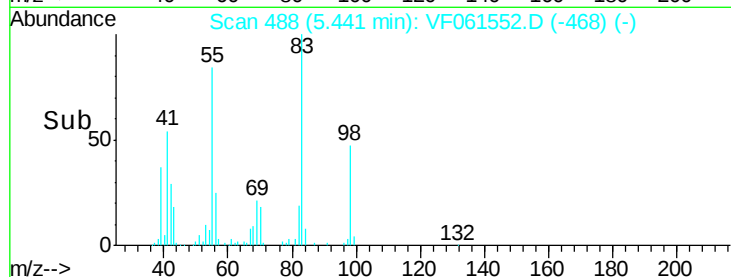
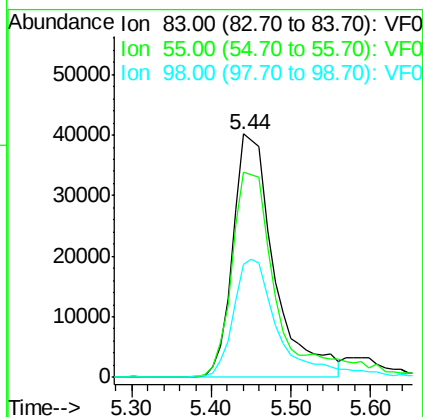
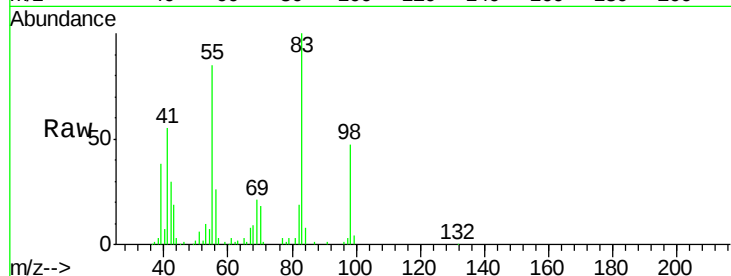




#39
Methvlcvclohexane
Concen: 39.423 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.00 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

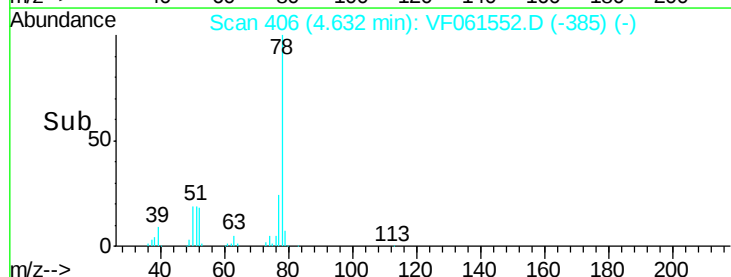
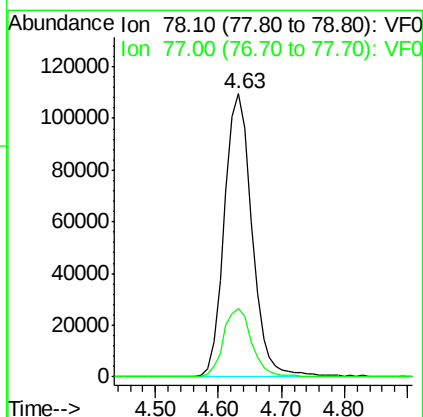
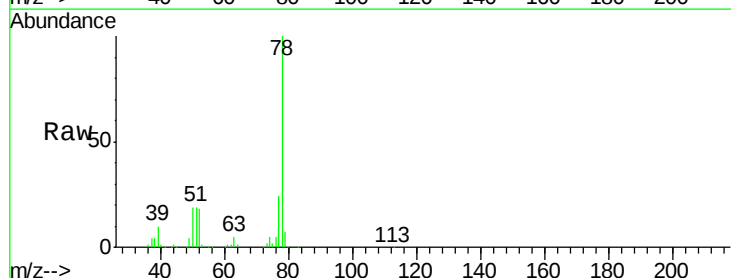
Instrument :
MSVOA_F
ClientSampleId :

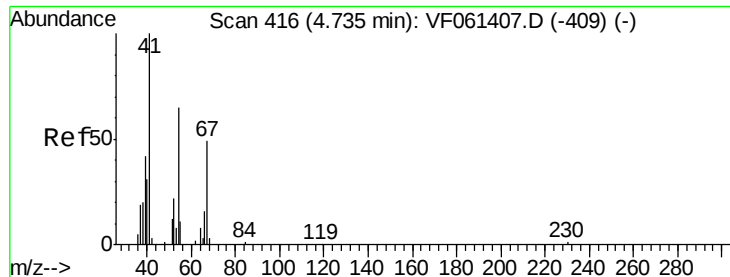
Tot Ion: 83 Resp: 145800
Ion Ratio Lower Upper
83 100
55 84.5 67.4 101.2
98 46.6 36.7 55.1



#40
Benzene
Concen: 44.018 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 78 Resp: 334264
Ion Ratio Lower Upper
78 100
77 24.2 19.0 28.6

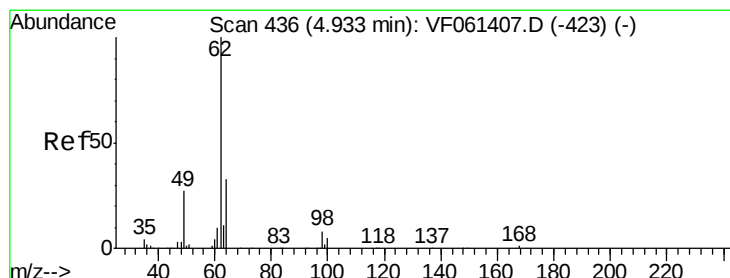
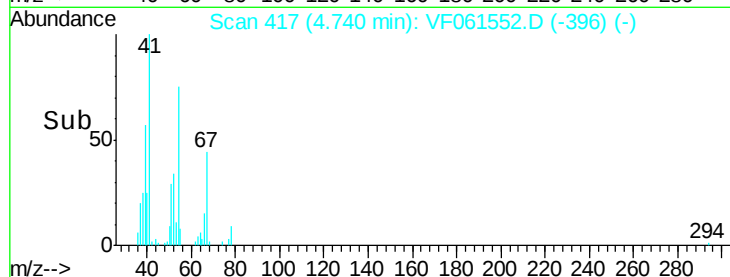
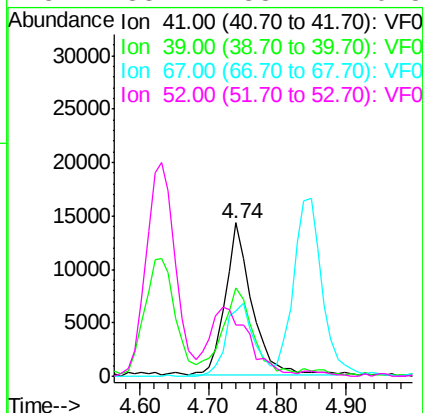
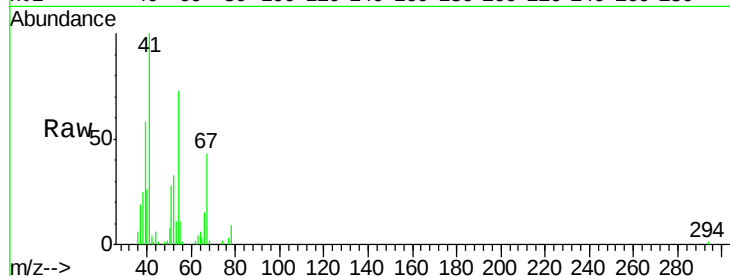




#41
Methacrylonitrile
Concen: 53.093 ug/l
RT: 4.74 min Scan# 417
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

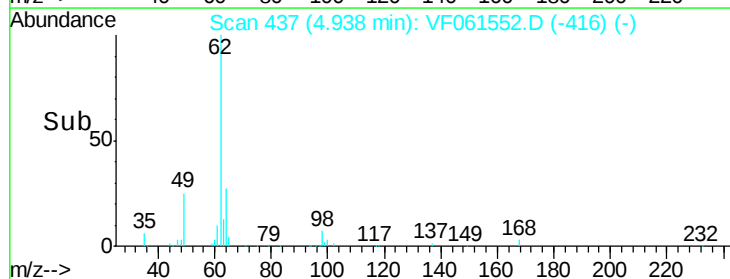
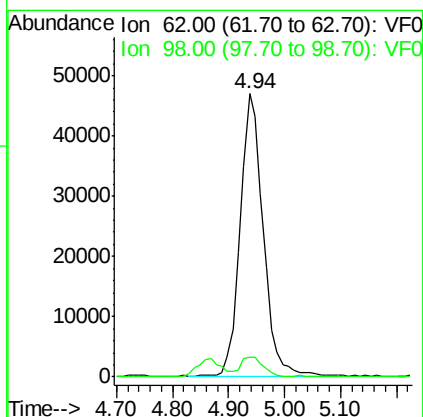
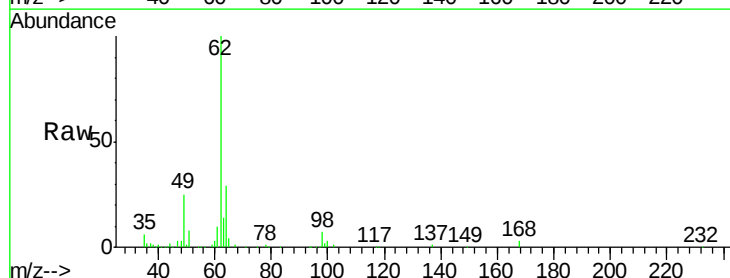
Instrument :
MSVOA_F
ClientSampleId :

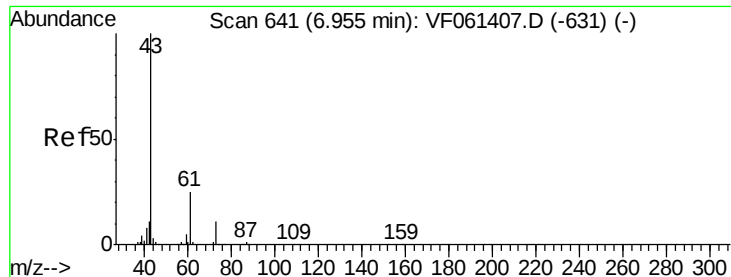
Tot Ion:	41	Resp:	38539
Ion	Ratio	Lower	Upper
41	100		
39	57.9	43.1	64.7
67	42.9	38.8	58.2
52	33.4	33.2	49.8



#42
1,2-Dichloroethane
Concen: 49.984 ug/l
RT: 4.94 min Scan# 437
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion:	62	Resp:	135256
Ion	Ratio	Lower	Upper
62	100		
98	7.2	0.0	17.0





#43

Isopropyl Acetate

Concen: 51.046 ug/l

RT: 6.96 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampleId :

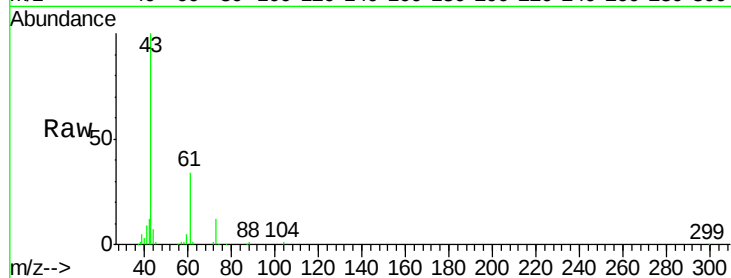
Tot Ion: 43 Resp: 87397

Ion Ratio Lower Upper

43 100

61 33.6 20.3 30.5#

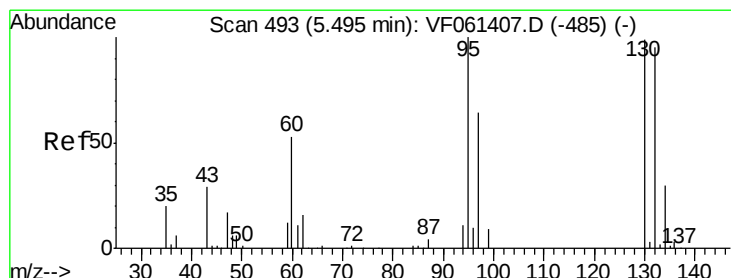
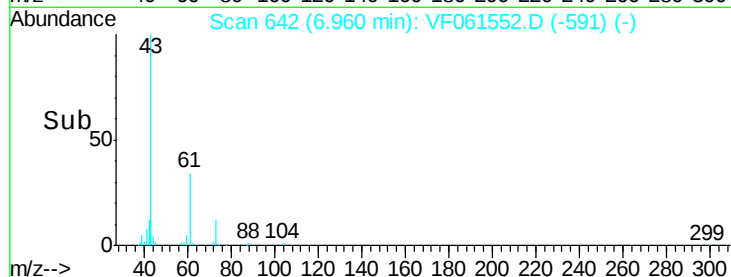
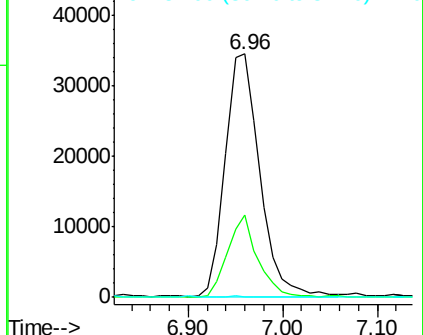
87 0.3 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 44.416 ug/l

RT: 5.51 min Scan# 495

Delta R.T. 0.01 min

Lab File: VF061552.D

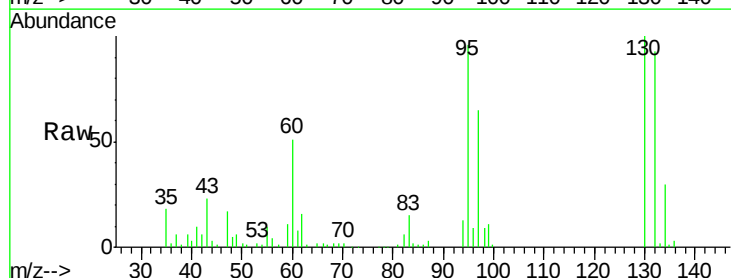
Acq: 7 Feb 2019 18:39

Tgt Ion: 130 Resp: 103468

Ion Ratio Lower Upper

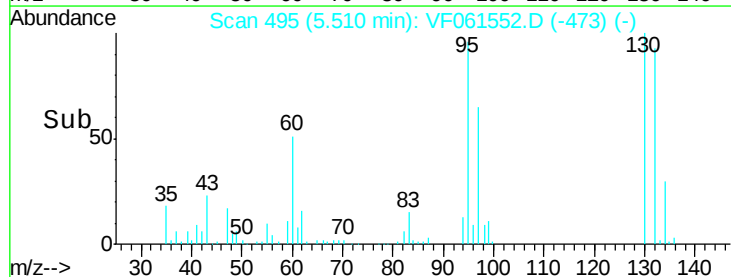
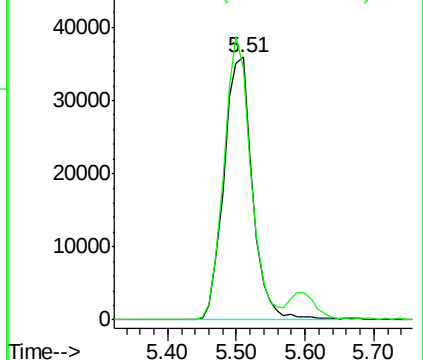
130 100

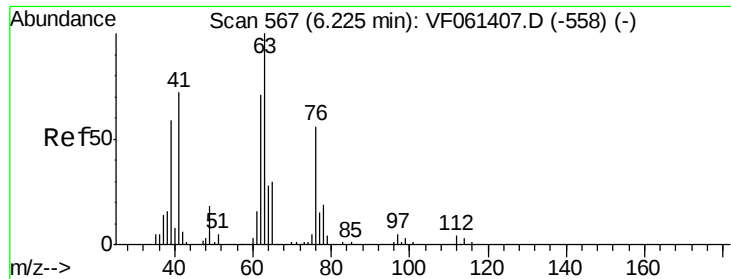
95 95.5 0.0 202.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 45.998 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

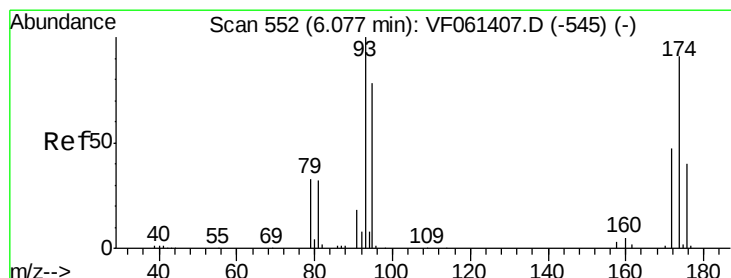
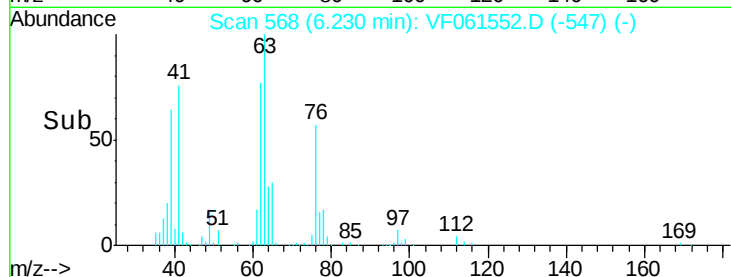
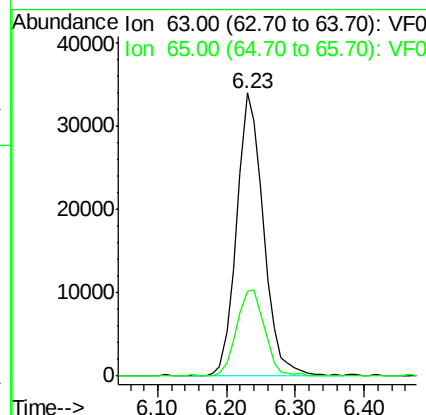
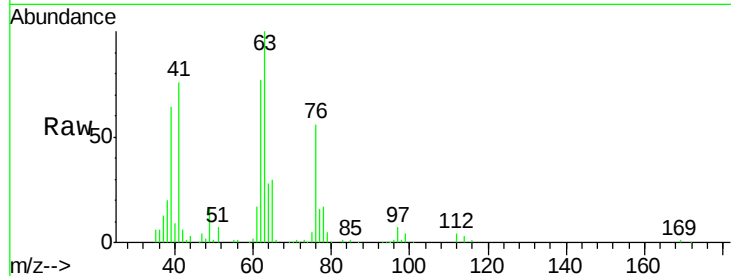
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 63 Resp: 91676

Ion Ratio Lower Upper

63 100

65 30.2 24.4 36.6



#46

Dibromomethane

Concen: 50.688 ug/l

RT: 6.08 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

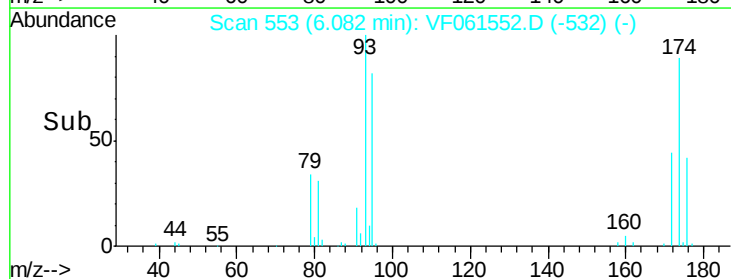
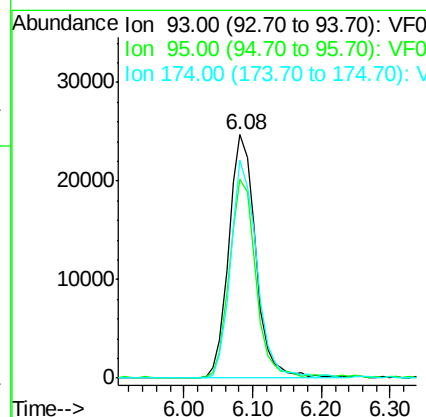
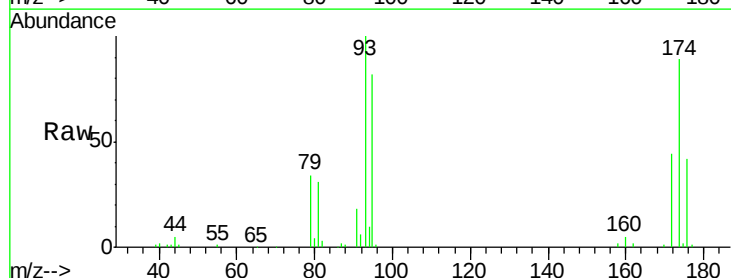
Tgt Ion: 93 Resp: 67174

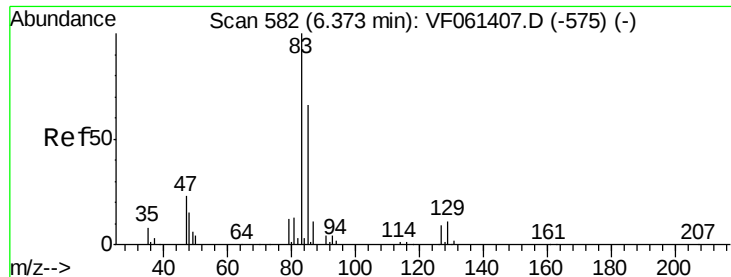
Ion Ratio Lower Upper

93 100

95 81.5 62.1 93.1

174 90.9 74.6 111.8





#47

Bromodichloromethane

Concen: 49.192 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

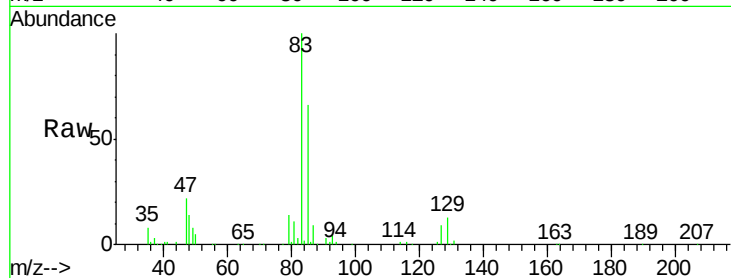
Tot Ion: 83 Resp: 161294

Ion Ratio Lower Upper

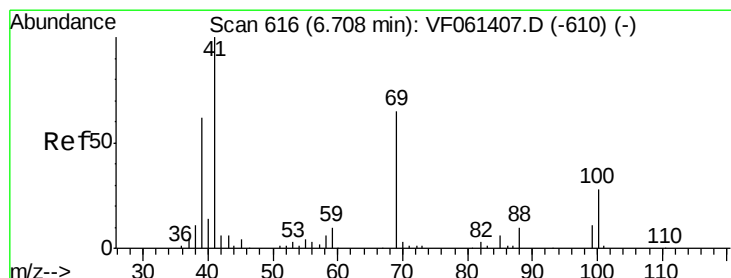
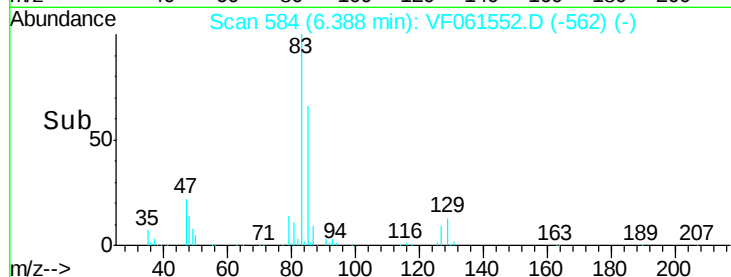
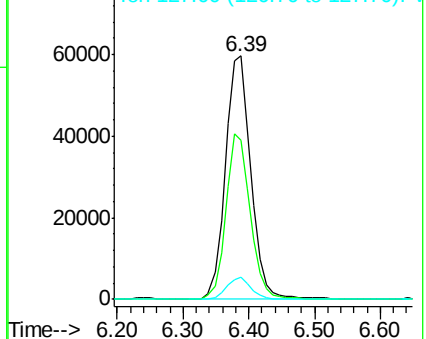
83 100

85 65.6 53.0 79.4

127 9.2 6.9 10.3



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: 53.048 ug/l

RT: 6.71 min Scan# 617

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

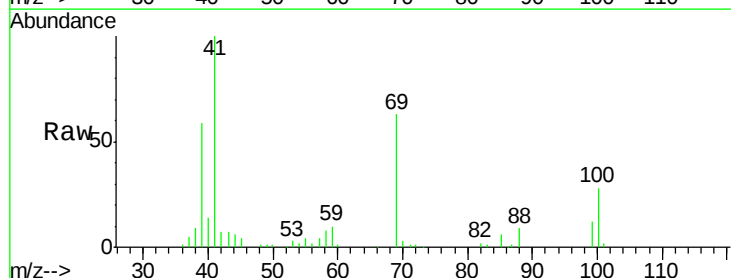
Tgt Ion: 41 Resp: 60989

Ion Ratio Lower Upper

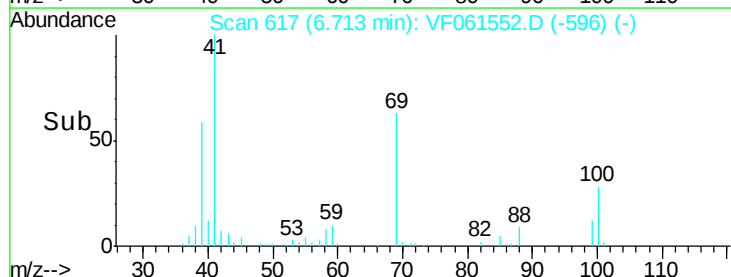
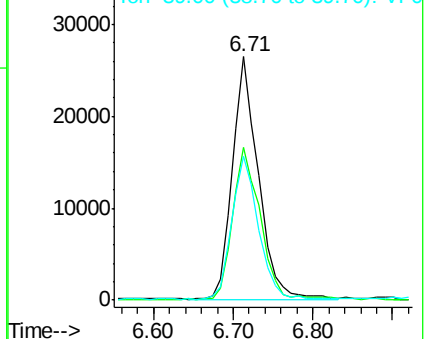
41 100

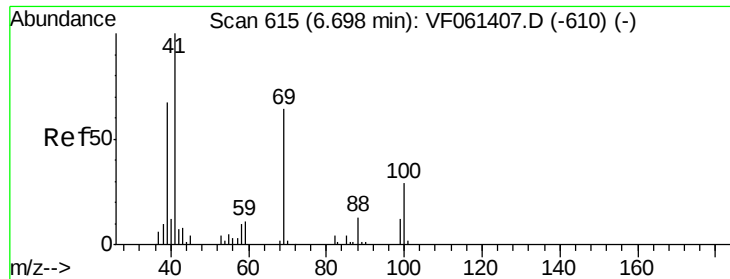
69 63.0 51.7 77.5

39 59.0 49.2 73.8



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: 1062.754 ug/l

RT: 6.70 min Scan# 616

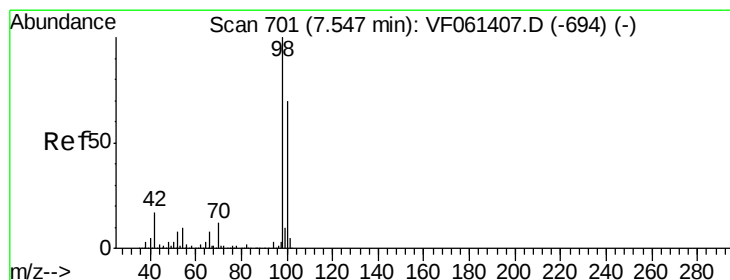
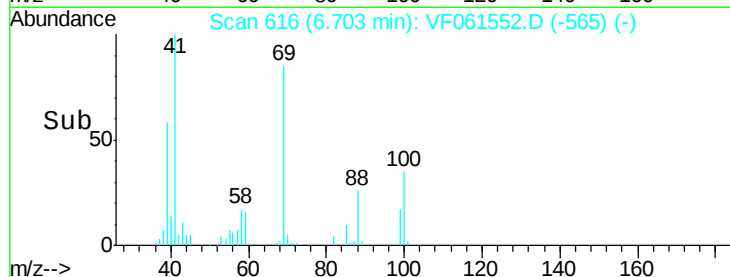
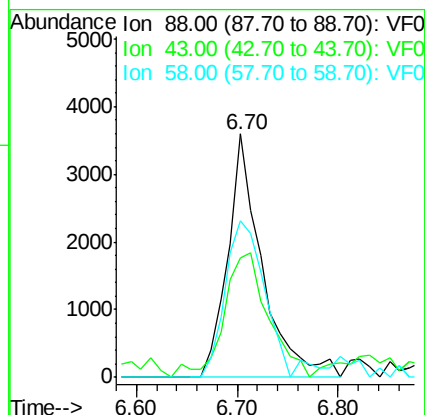
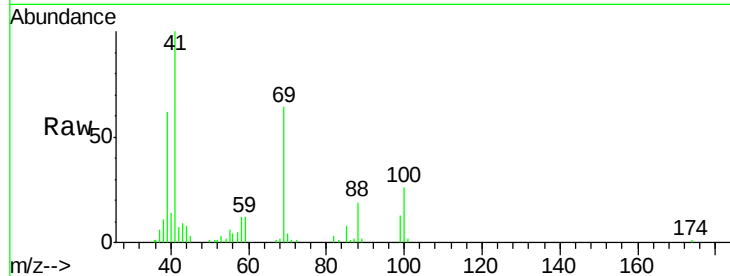
Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	88	Resp:	8494
Ion	Ratio	Lower	Upper
88	100		
43	48.9	55.5	83.3#
58	64.2	59.9	89.9



#50

Toluene-d8

Concen: 44.727 ug/l

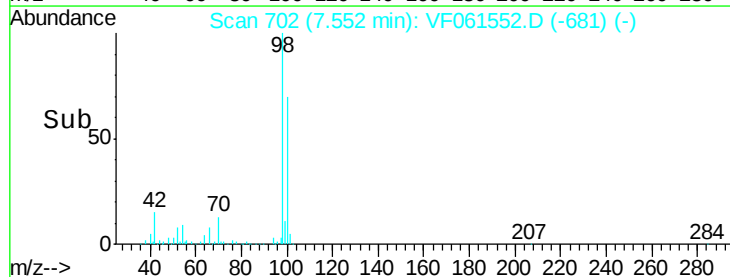
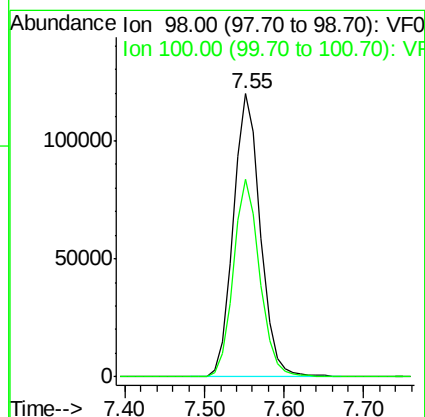
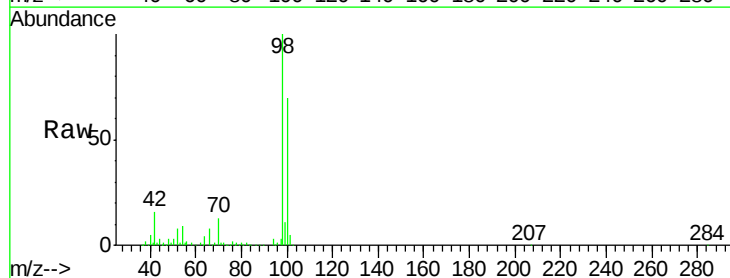
RT: 7.55 min Scan# 702

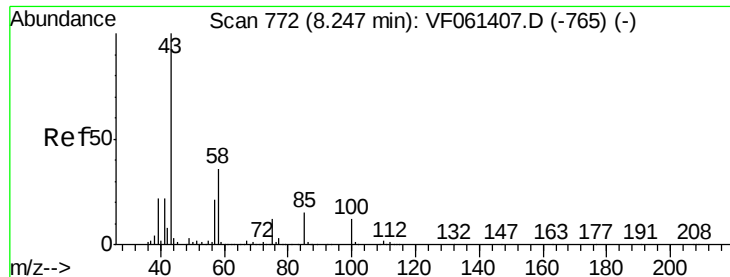
Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Tgt Ion:	98	Resp:	284619
Ion	Ratio	Lower	Upper
98	100		
100	69.7	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 257.308 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

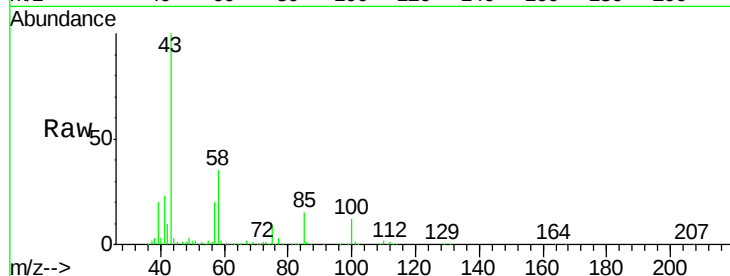
ClientSampleId :

Tot Ion: 43 Resp: 323868

Ion Ratio Lower Upper

43 100

58 35.0 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

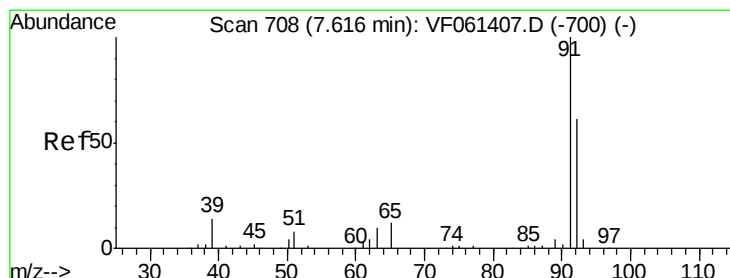
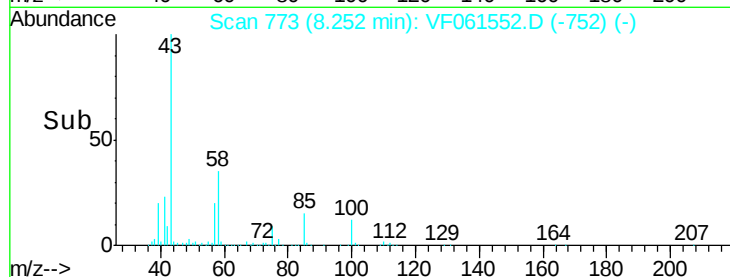
150000

100000

50000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 42.791 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061552.D

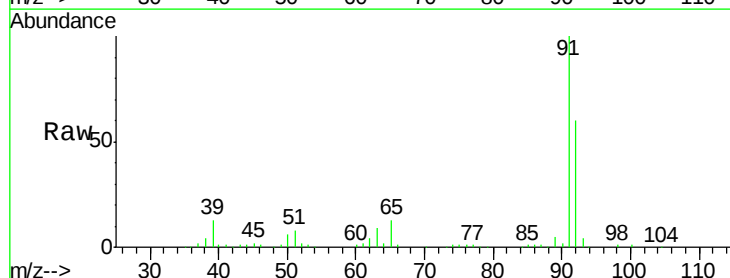
Acq: 7 Feb 2019 18:39

Tgt Ion: 92 Resp: 213989

Ion Ratio Lower Upper

92 100

91 165.4 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

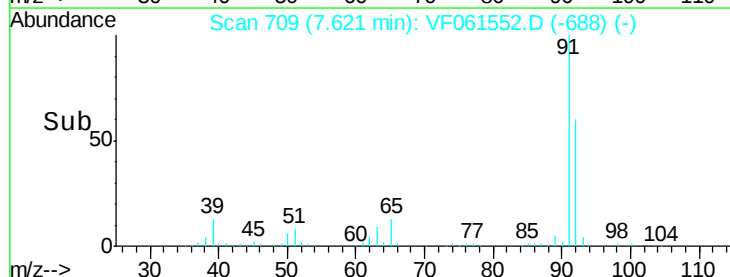
150000

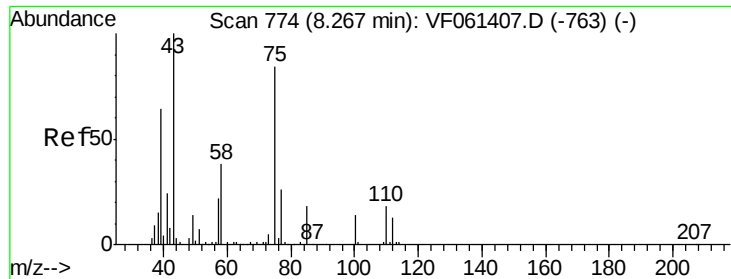
100000

50000

0

Time--> 7.50 7.60 7.70

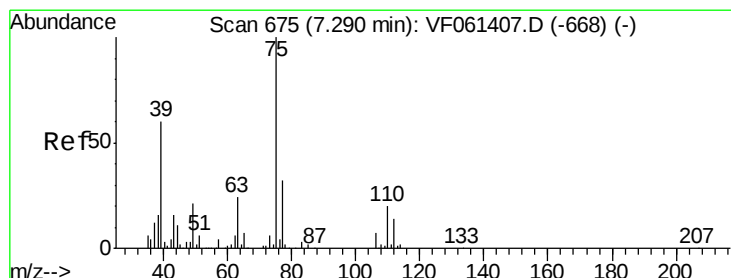
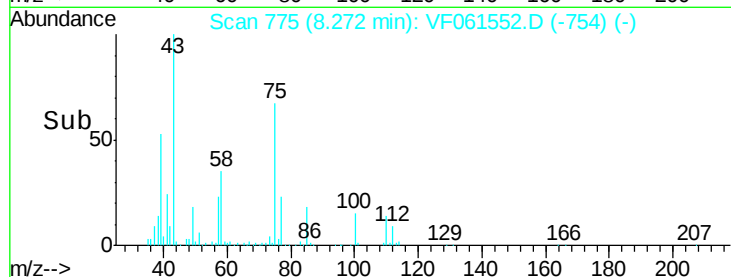
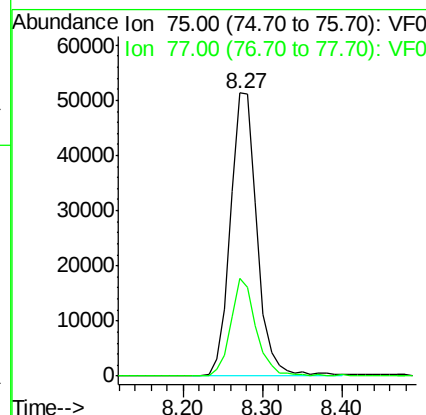
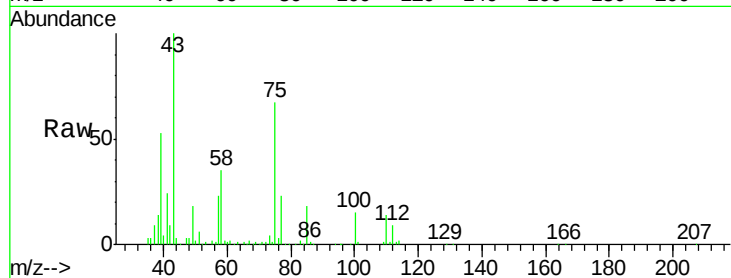




#53
 t-1,3-Dichloropropene
 Concen: 46.633 ug/l
 RT: 8.27 min Scan# 775
 Delta R.T. 0.01 min
 Lab File: VF061552.D
 Acq: 7 Feb 2019 18:39

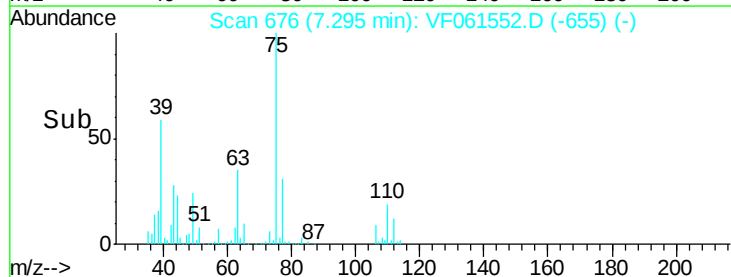
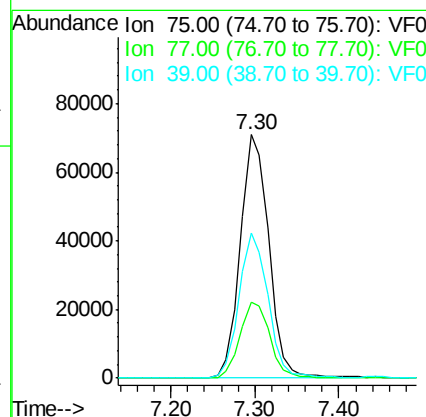
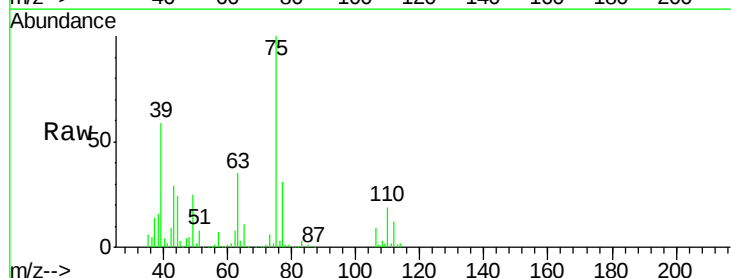
Instrument :
 MSVOA_F
 ClientSampled :

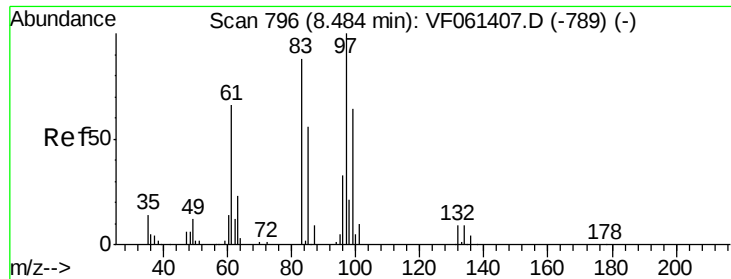
Tot Ion: 75 Resp: 121416
 Ion Ratio Lower Upper
 75 100
 77 34.3 24.4 36.6



#54
 cis-1,3-Dichloropropene
 Concen: 51.616 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VF061552.D
 Acq: 7 Feb 2019 18:39

Tgt Ion: 75 Resp: 167983
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.4 38.0
 39 59.4 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 51.836 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 97 Resp: 73611

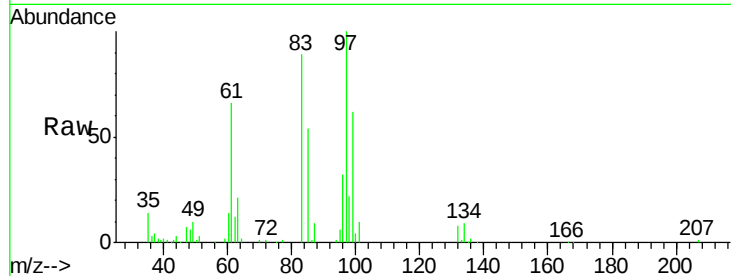
Ion Ratio Lower Upper

97 100

83 89.3 70.4 105.6

85 54.4 44.7 67.1

99 62.5 50.8 76.2

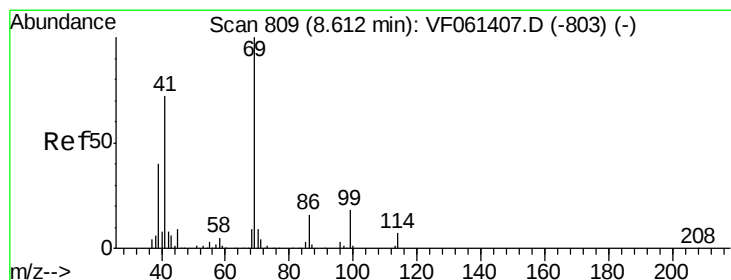
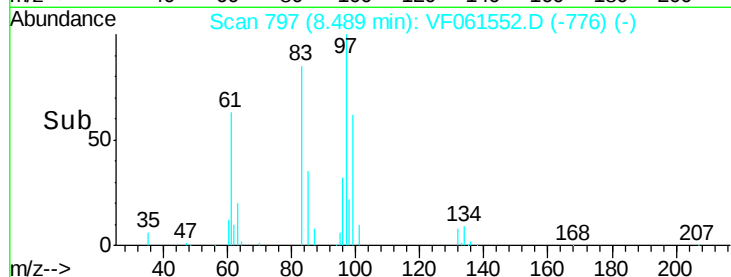
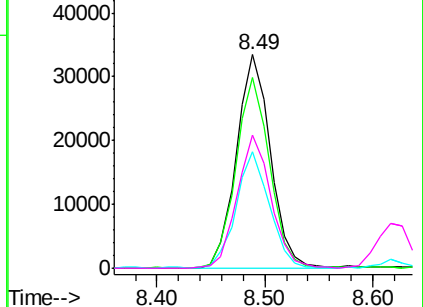


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 50.172 ug/l

RT: 8.62 min Scan# 810

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

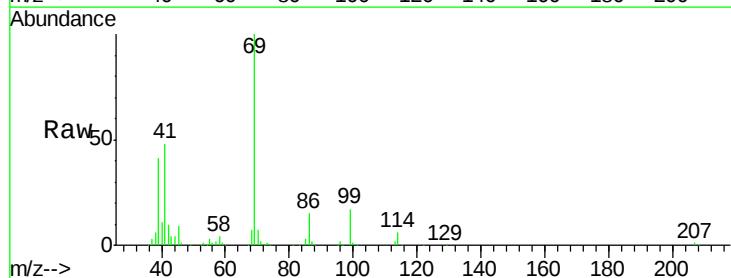
Tgt Ion: 69 Resp: 82893

Ion Ratio Lower Upper

69 100

41 48.2 57.5 86.3#

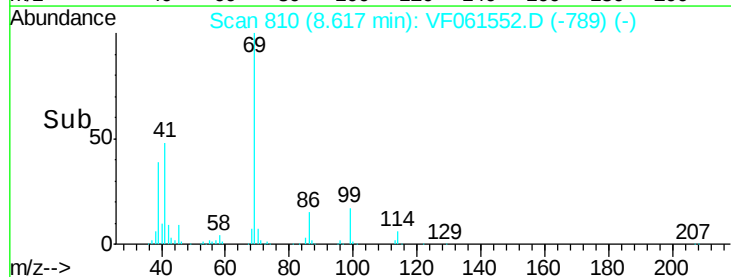
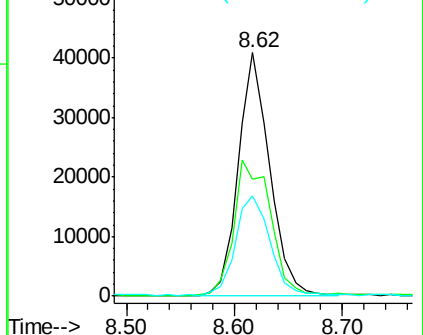
39 41.2 32.0 48.0

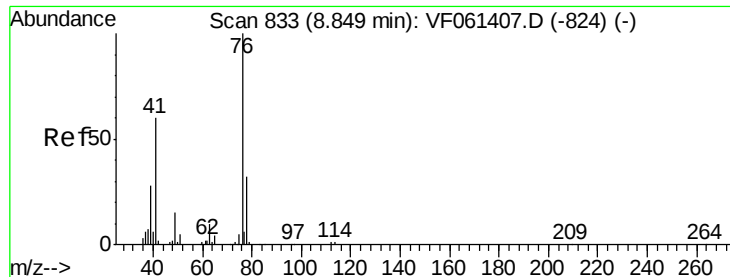


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 49.635 ug/l

RT: 8.85 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

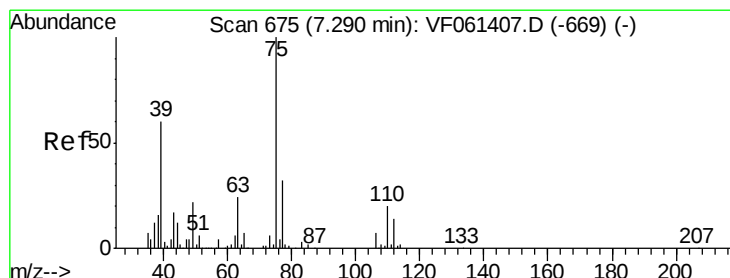
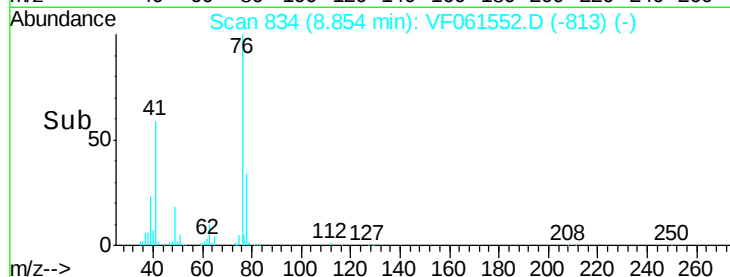
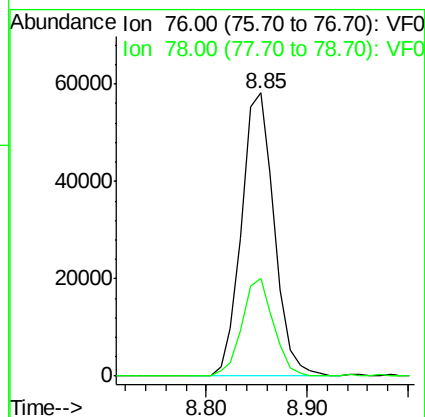
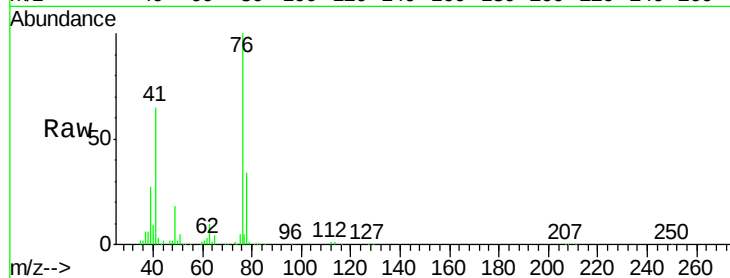
ClientSampleId :

Tot Ion: 76 Resp: 132117

Ion Ratio Lower Upper

76 100

78 34.5 25.3 37.9



#58

2-Chloroethyl Vinyl ether

Concen: 313.610 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061552.D

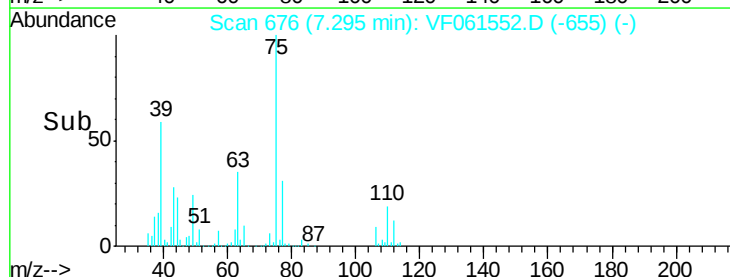
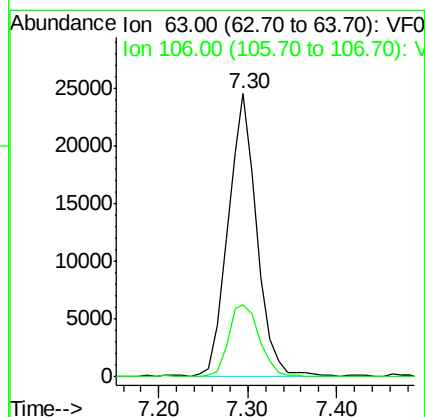
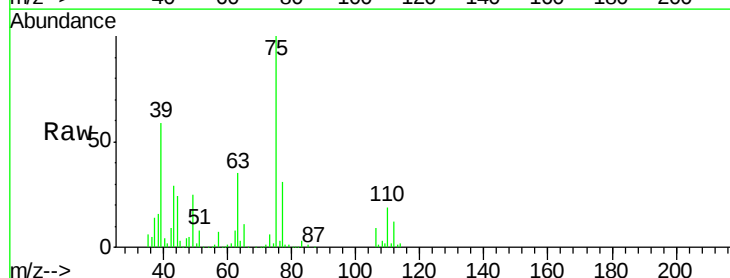
Acq: 7 Feb 2019 18:39

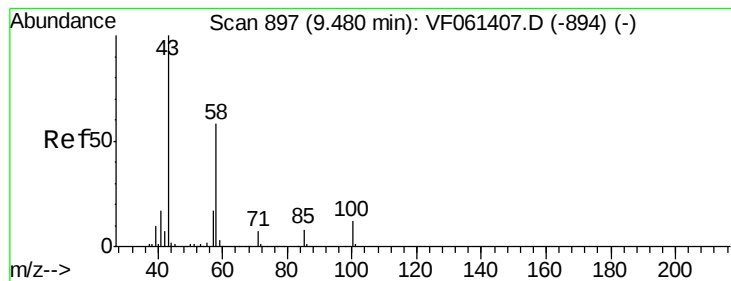
Tgt Ion: 63 Resp: 55696

Ion Ratio Lower Upper

63 100

106 25.7 21.9 32.9





#59

2-Hexanone

Concen: 263.719 ug/l

RT: 9.48 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

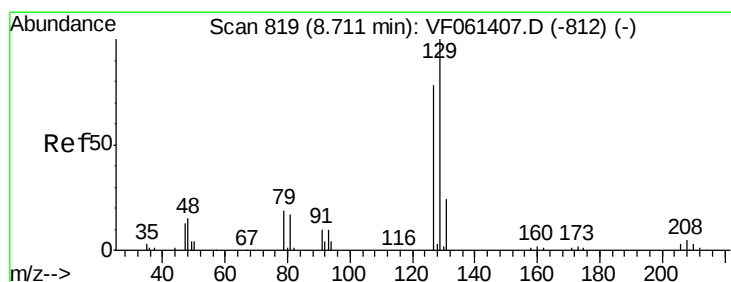
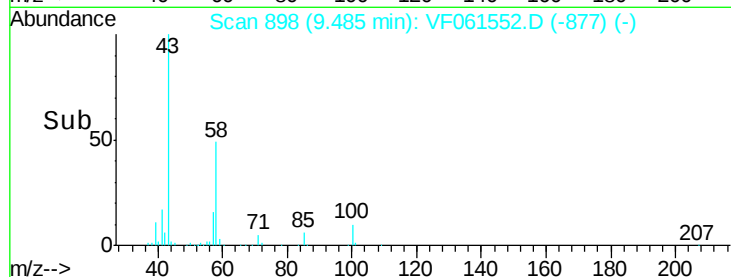
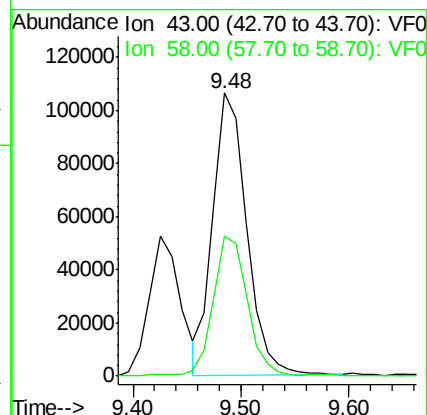
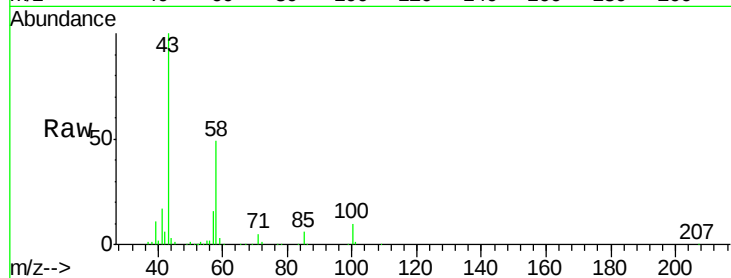
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 231467

Ion Ratio Lower Upper

43 100

58 49.3 25.9 77.6



#60

Dibromochloromethane

Concen: 49.896 ug/l

RT: 8.72 min Scan# 820

Delta R.T. 0.01 min

Lab File: VF061552.D

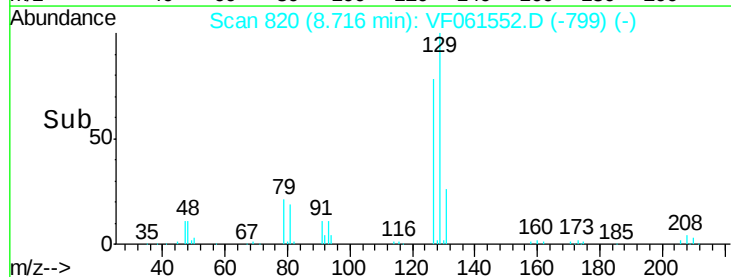
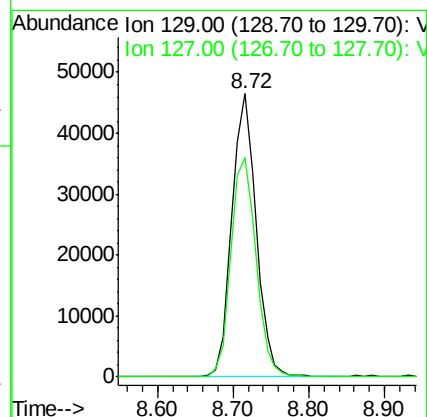
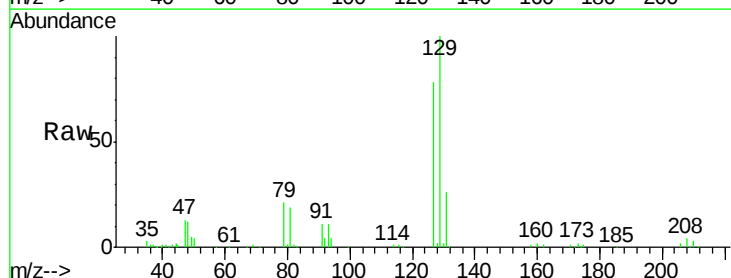
Acq: 7 Feb 2019 18:39

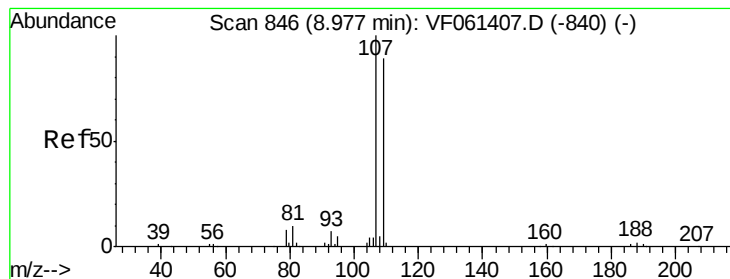
Tgt Ion: 129 Resp: 103588

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.2





#61

1,2-Dibromoethane

Concen: 48.538 ug/l

RT: 8.98 min Scan# 847

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

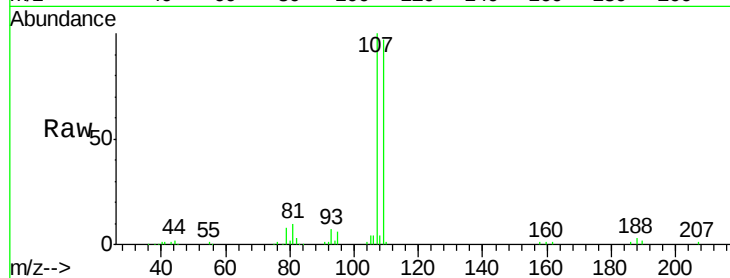
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:107 Resp: 78908

Ion Ratio Lower Upper

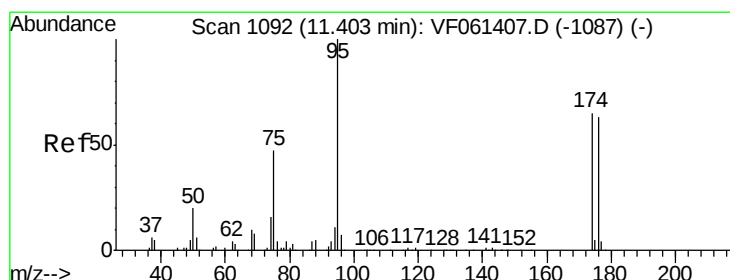
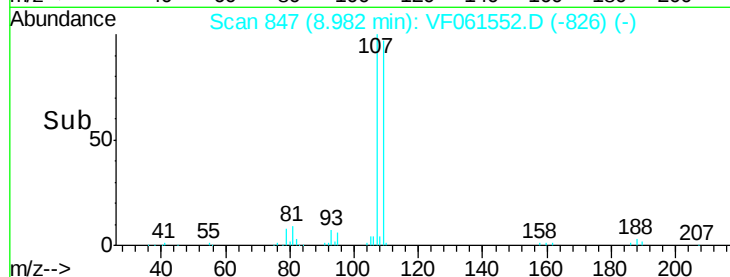
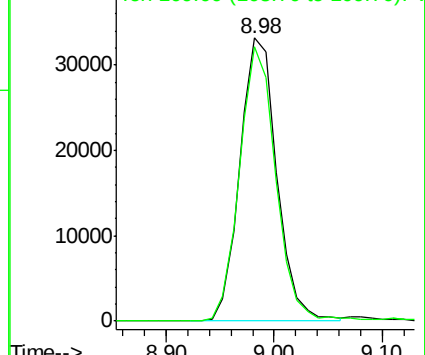
107 100

109 97.2 70.8 106.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 41.203 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

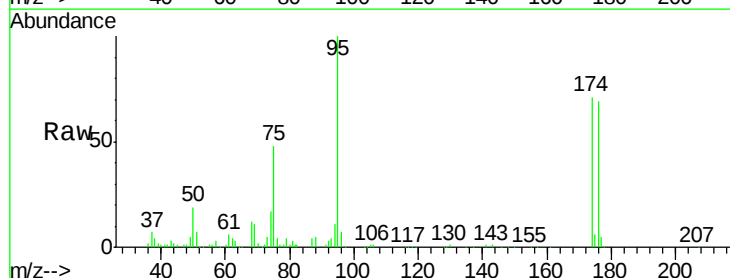
Tgt Ion: 95 Resp: 122503

Ion Ratio Lower Upper

95 100

174 71.1 0.0 130.4

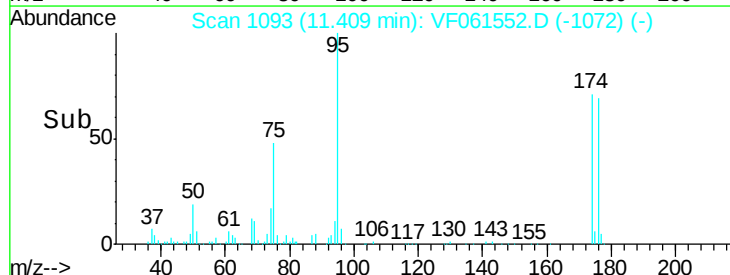
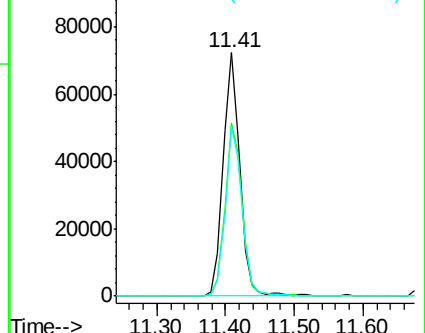
176 69.4 0.0 126.2

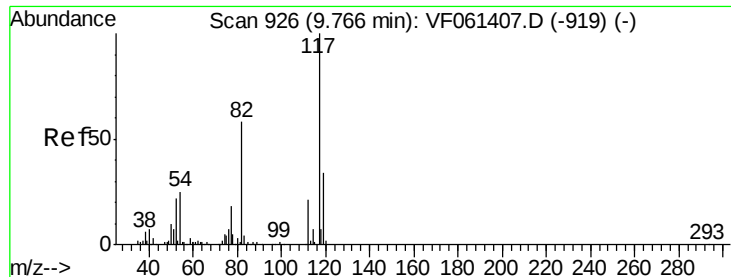


Abundance Ion 95.00 (94.70 to 95.70): VF0

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: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

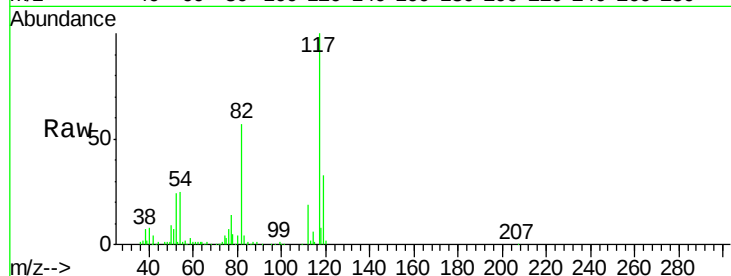
Tot Ion:117 Resp: 258320

Ion Ratio Lower Upper

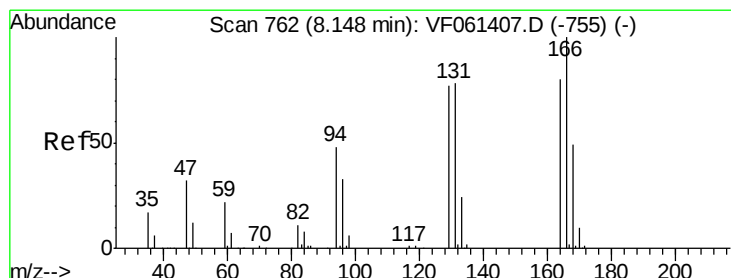
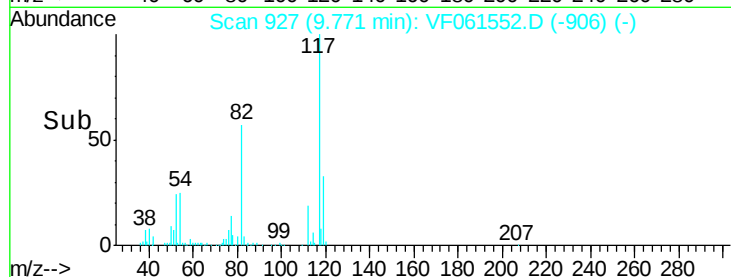
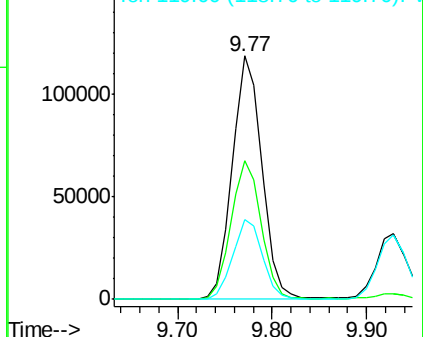
117 100

82 56.7 46.4 69.6

119 32.6 27.2 40.8



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: 46.476 ug/l

RT: 8.15 min Scan# 763

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Tgt Ion:164 Resp: 90284

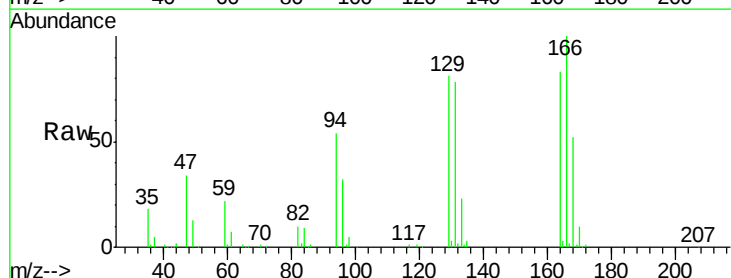
Ion Ratio Lower Upper

164 100

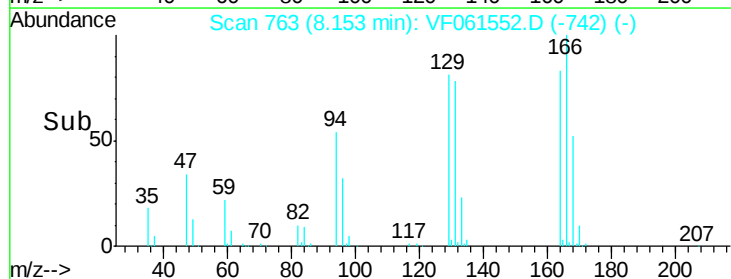
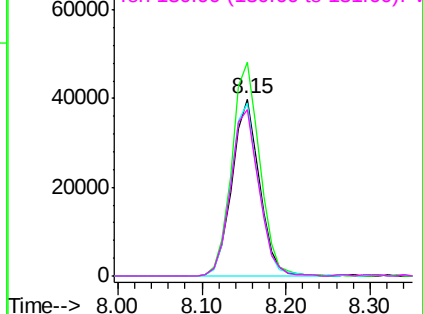
166 120.8 99.6 149.4

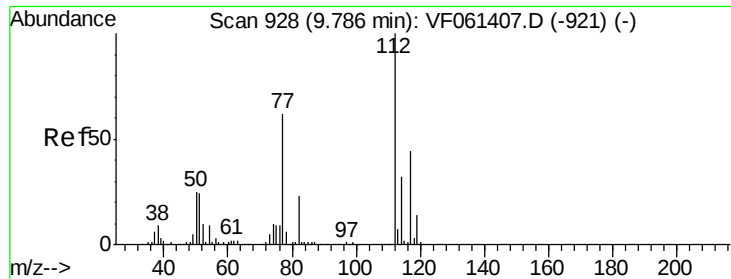
129 97.9 76.4 114.6

131 94.2 77.9 116.9



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

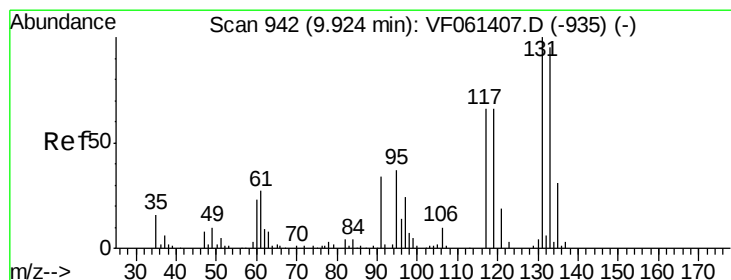
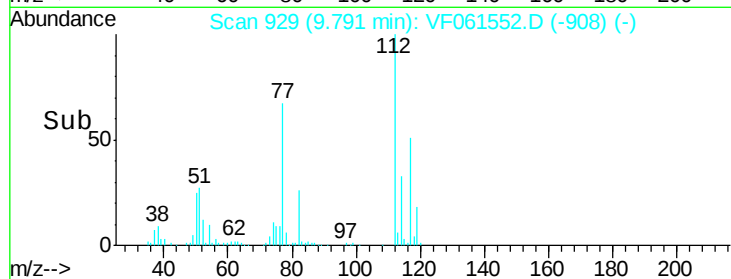
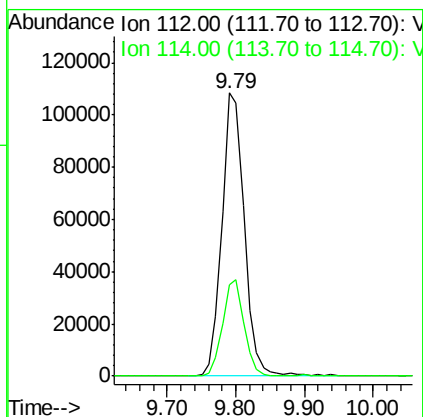
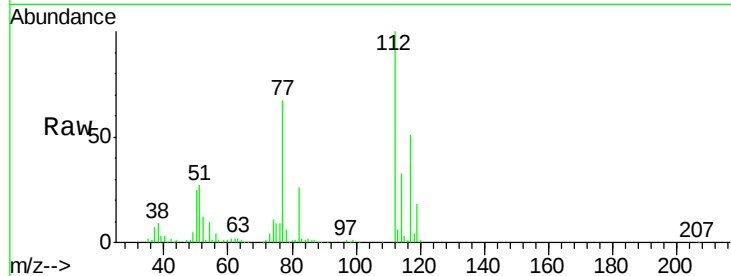




#65
Chlorobenzene
Concen: 46.760 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

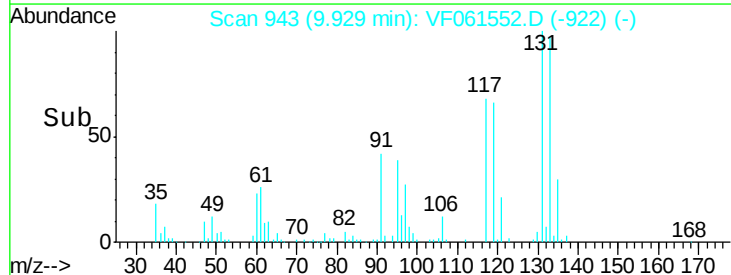
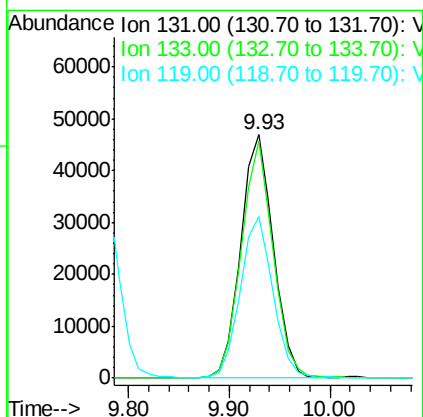
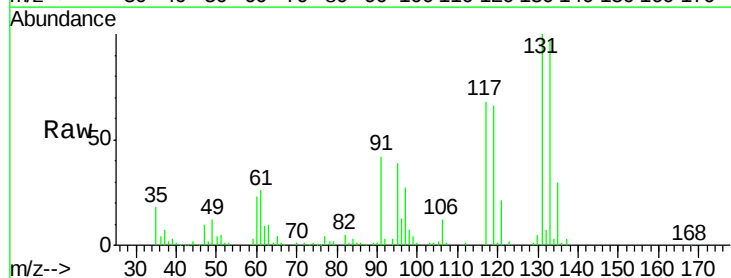
Instrument :
MSVOA_F
ClientSampleId :

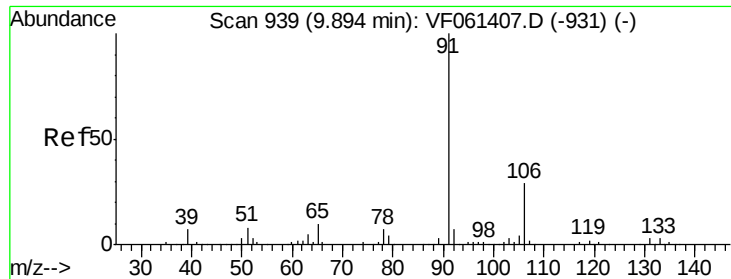
Tot Ion:112 Resp: 245637
Ion Ratio Lower Upper
112 100
114 32.5 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 50.571 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion:131 Resp: 105828
Ion Ratio Lower Upper
131 100
133 97.5 47.4 142.2
119 66.5 33.1 99.3

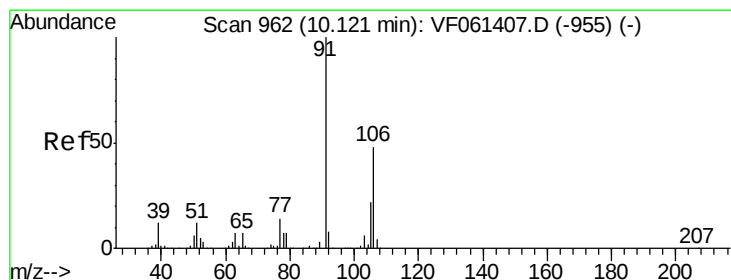
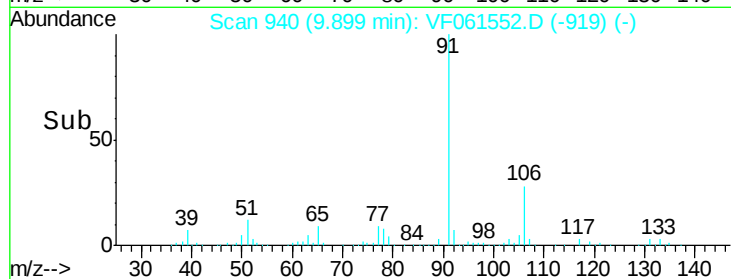
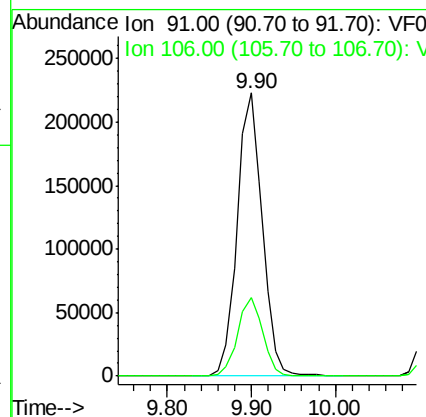
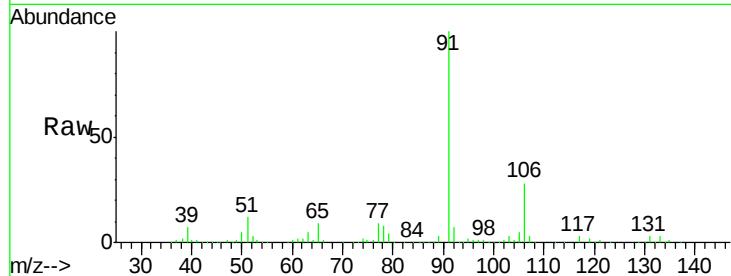




#67
Ethyl Benzene
Concen: 48.115 ug/l
RT: 9.90 min Scan# 940
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

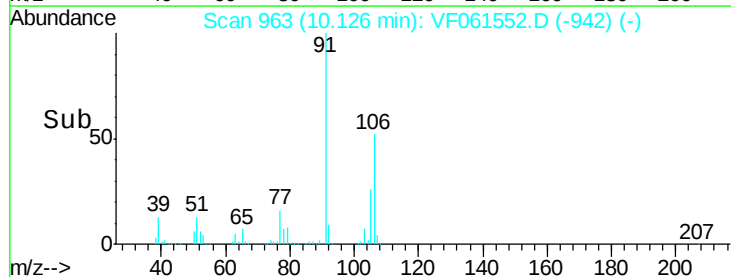
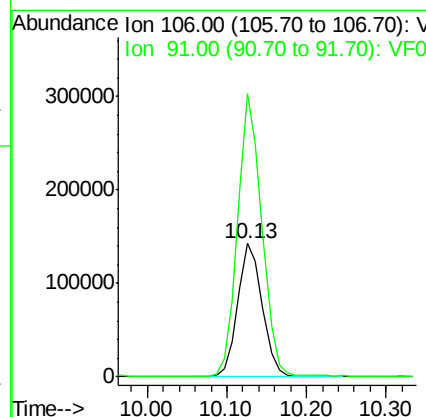
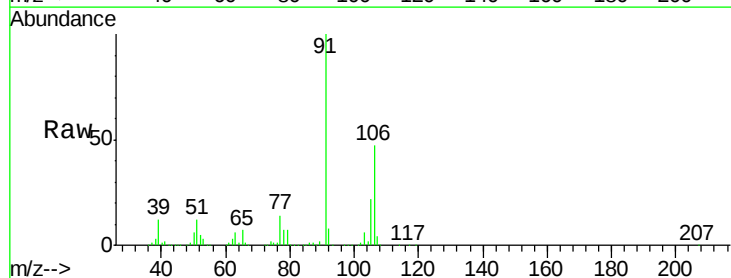
Instrument :
MSVOA_F
ClientSampleId :

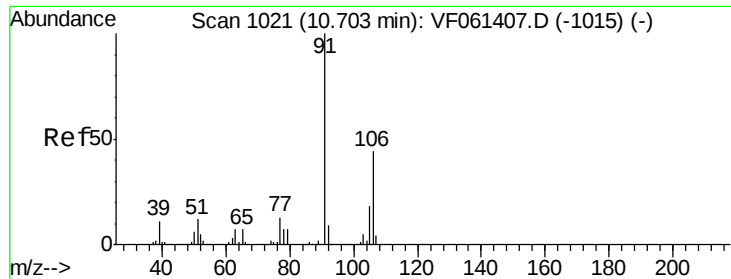
Tot Ion: 91 Resp: 461796
Ion Ratio Lower Upper
91 100
106 27.6 23.1 34.7



#68
m/p-Xylenes
Concen: 89.543 ug/l
RT: 10.13 min Scan# 963
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 106 Resp: 309099
Ion Ratio Lower Upper
106 100
91 212.1 166.2 249.4

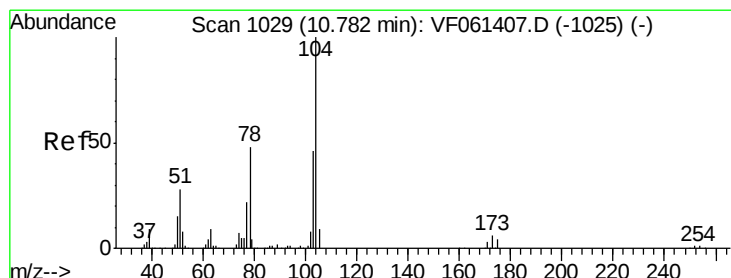
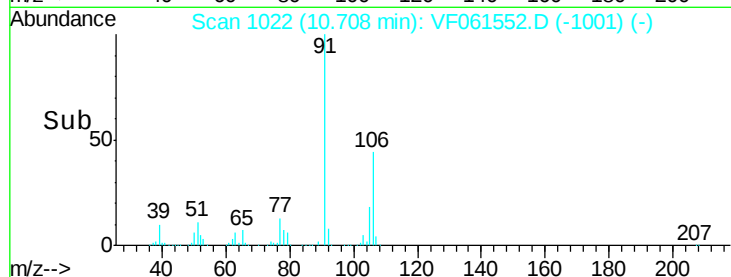
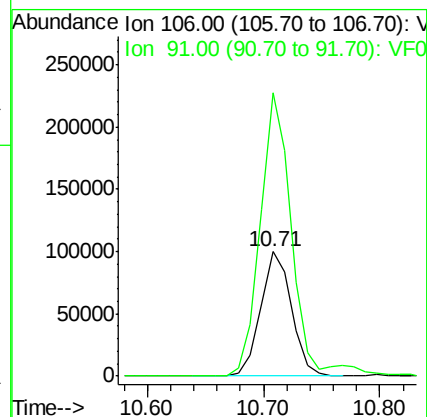
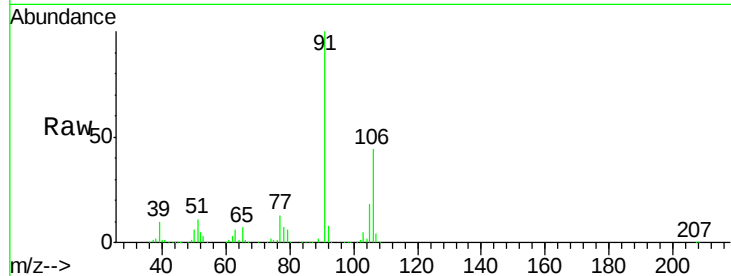




#69
o-Xylene
Concen: 48.815 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

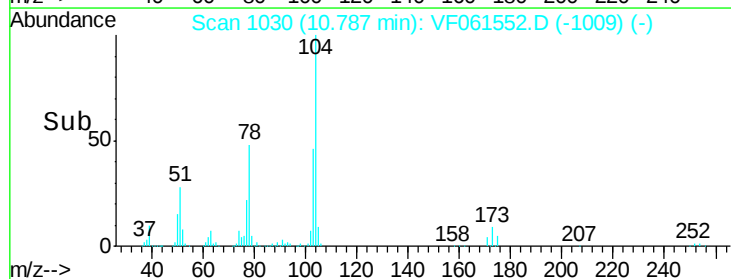
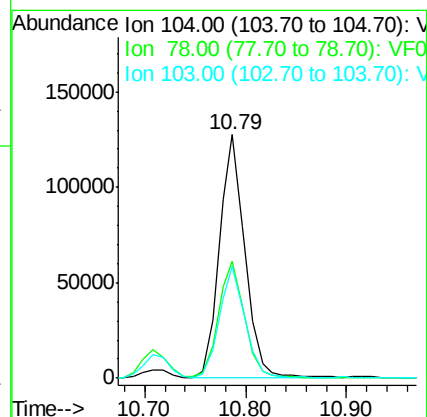
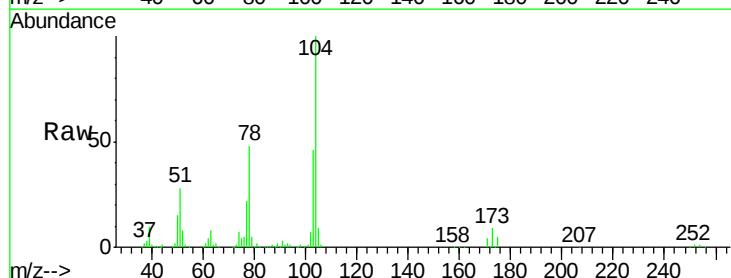
Instrument :
MSVOA_F
ClientSampled :

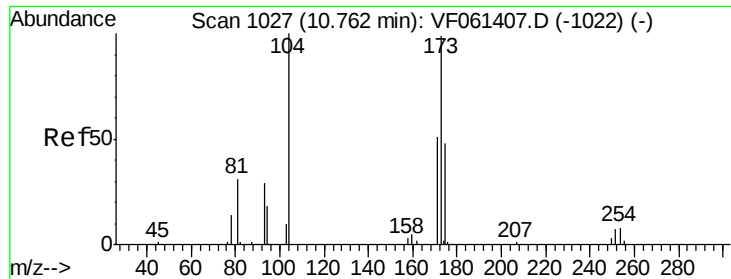
Tot Ion:106 Resp: 182633
Ion Ratio Lower Upper
106 100
91 227.6 113.3 339.8



#70
Styrene
Concen: 43.609 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion:104 Resp: 223333
Ion Ratio Lower Upper
104 100
78 48.2 38.8 58.2
103 45.8 37.0 55.6





#71

Bromoform

Concen: 57.673 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampleId :

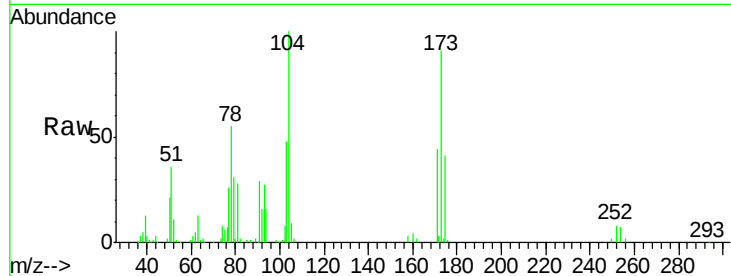
Tot Ion:173 Resp: 54227

Ion Ratio Lower Upper

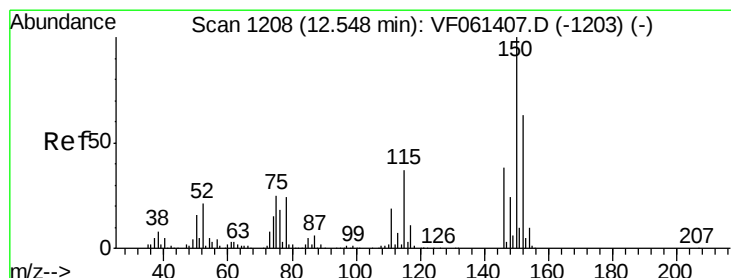
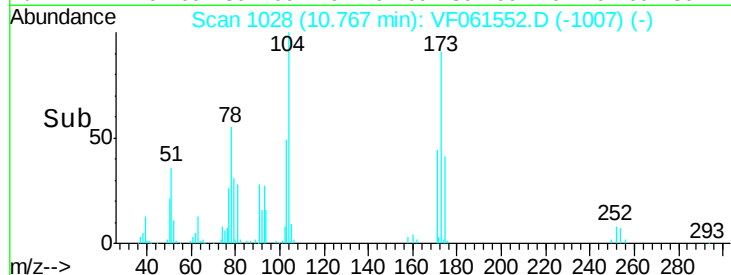
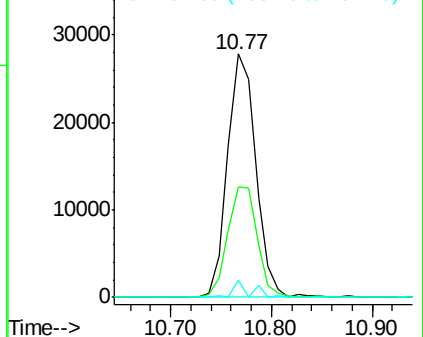
173 100

175 45.4 24.1 72.4

254 7.2 0.0 0.0#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

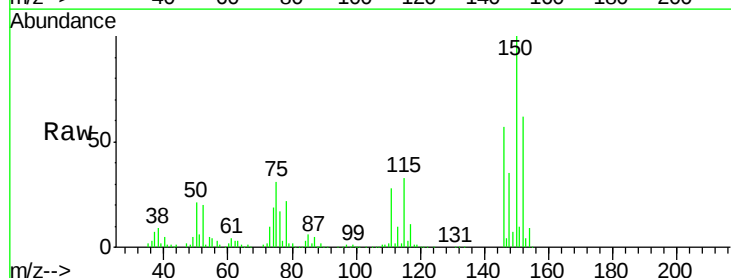
Tgt Ion:152 Resp: 128700

Ion Ratio Lower Upper

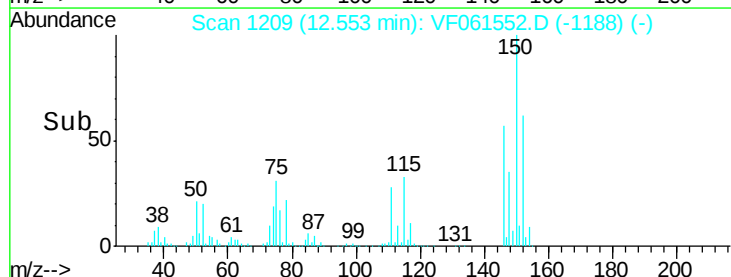
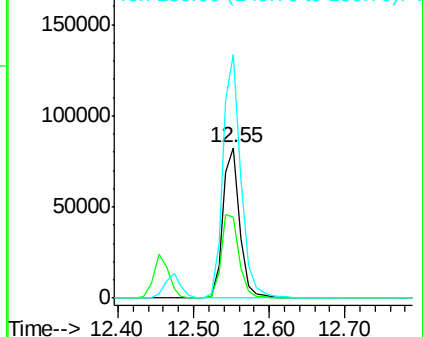
152 100

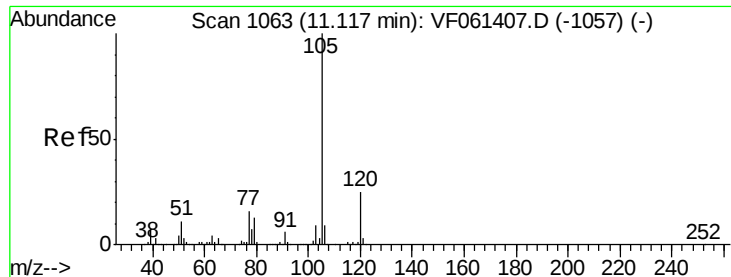
115 53.7 30.0 90.0

150 161.5 0.0 321.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 48.163 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

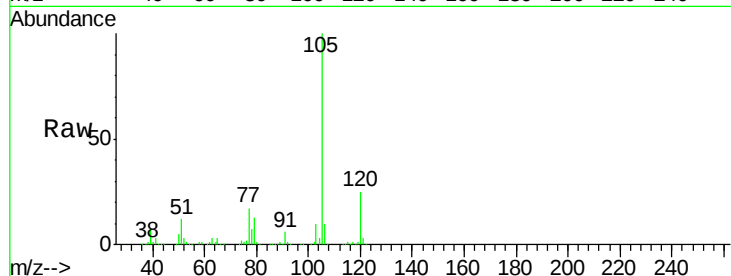
ClientSampleId :

Tot Ion:105 Resp: 504139

Ion Ratio Lower Upper

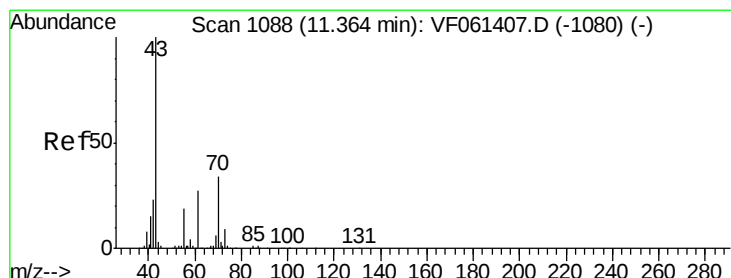
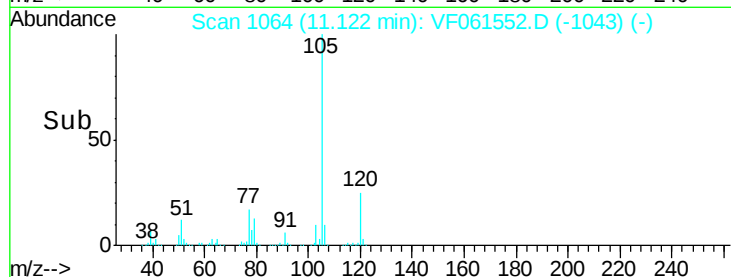
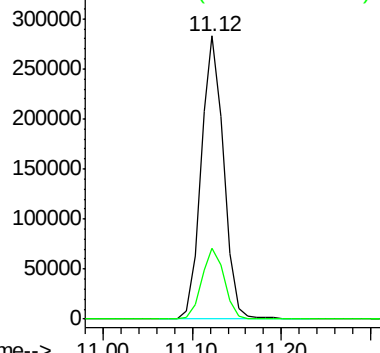
105 100

120 25.2 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 54.264 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Tgt Ion: 43 Resp: 134313

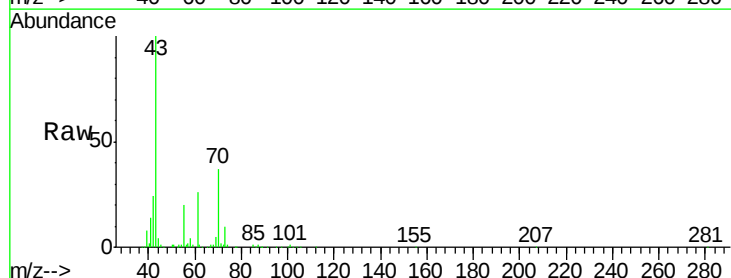
Ion Ratio Lower Upper

43 100

70 37.1 27.6 41.4

55 20.3 15.4 23.2

61 26.3 21.8 32.6

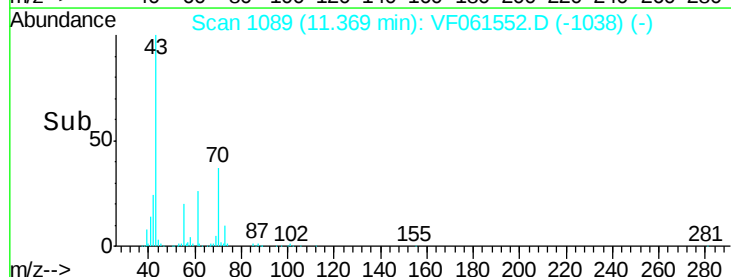
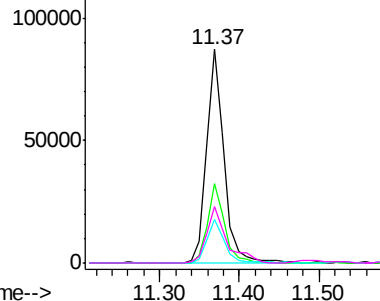


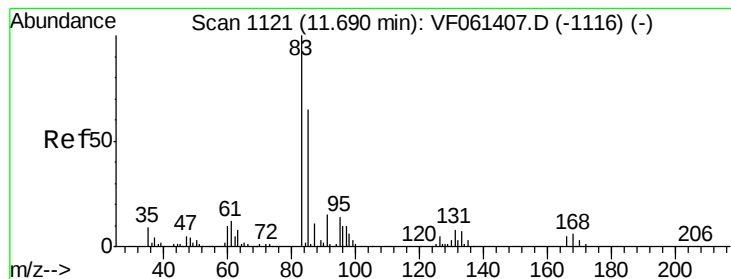
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 53.100 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampleId :

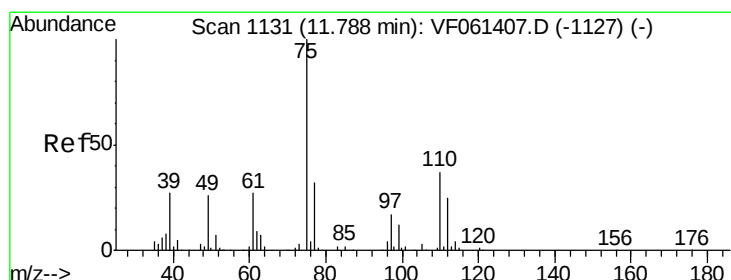
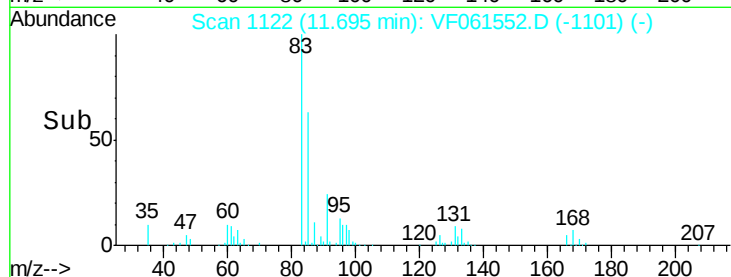
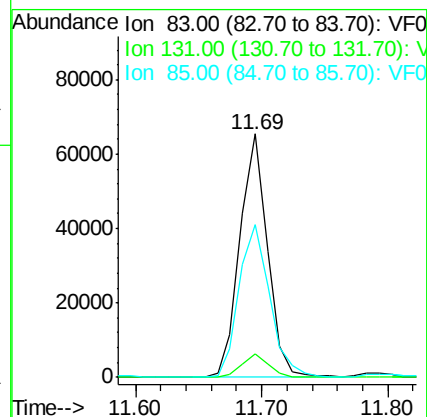
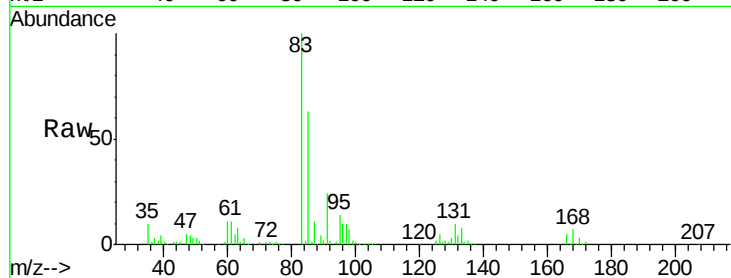
Tot Ion: 83 Resp: 99018

Ion Ratio Lower Upper

83 100

131 9.7 4.0 12.2

85 62.8 32.7 98.1



#76

1,2,3-Trichloropropane

Concen: 51.789 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VF061552.D

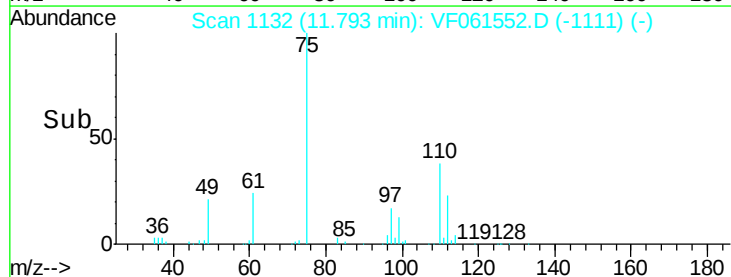
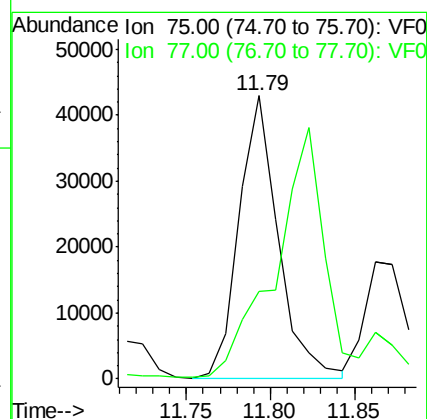
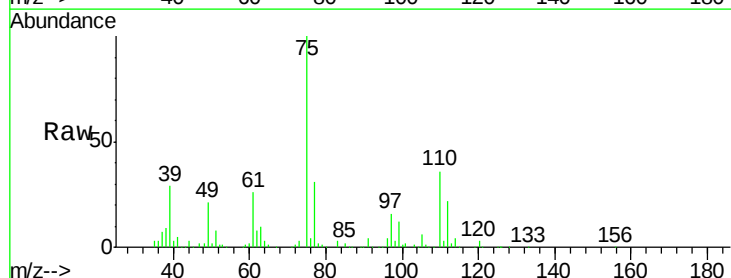
Acq: 7 Feb 2019 18:39

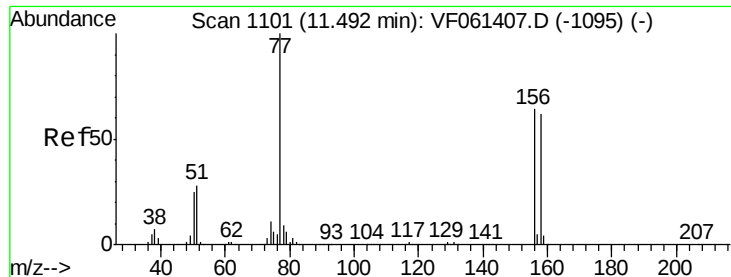
Tgt Ion: 75 Resp: 69392

Ion Ratio Lower Upper

75 100

77 30.9 16.1 48.3





#77

Bromobenzene

Concen: 51.251 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampleId :

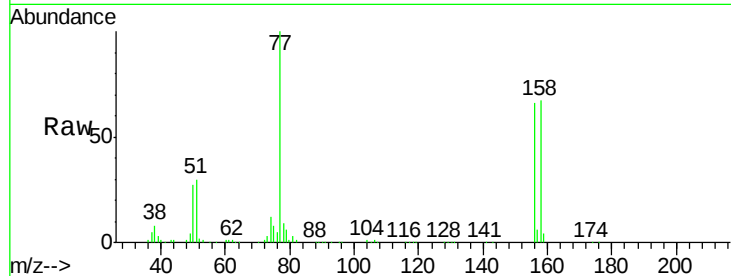
Tot Ion:156 Resp: 113297

Ion Ratio Lower Upper

156 100

77 150.5 78.3 234.9

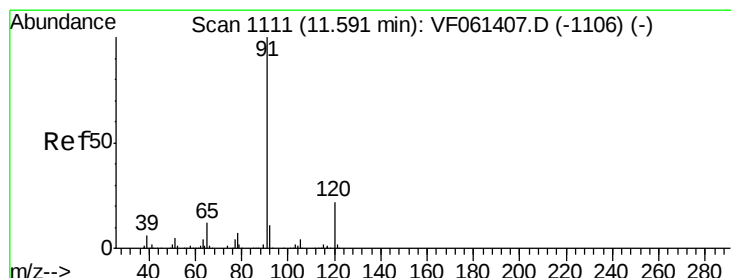
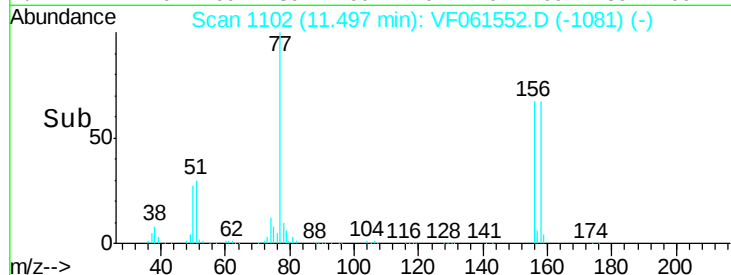
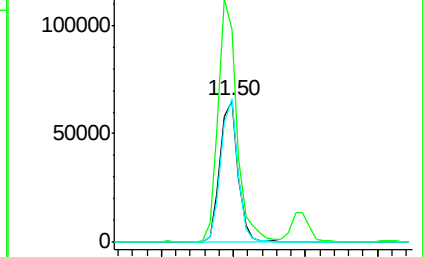
158 101.5 48.9 146.7



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: 44.251 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061552.D

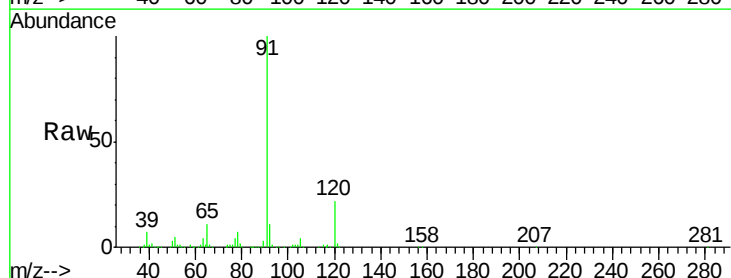
Acq: 7 Feb 2019 18:39

Tgt Ion: 91 Resp: 572158

Ion Ratio Lower Upper

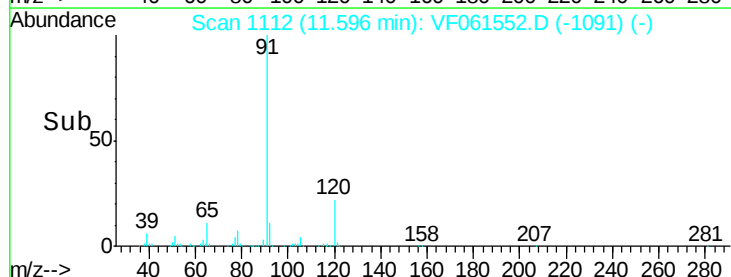
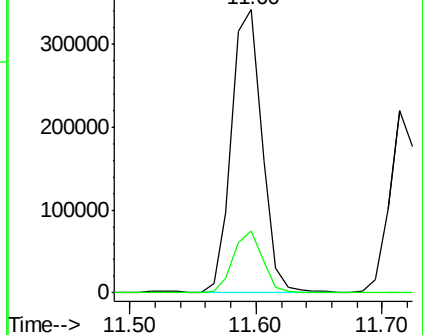
91 100

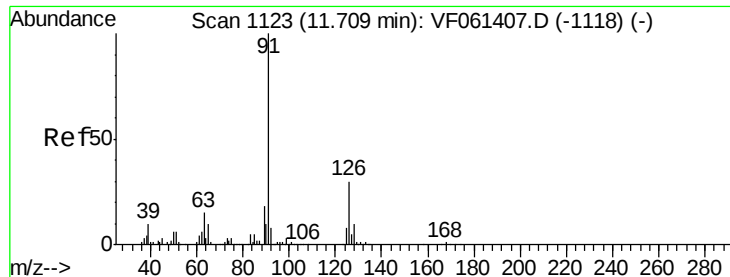
120 21.9 10.9 32.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

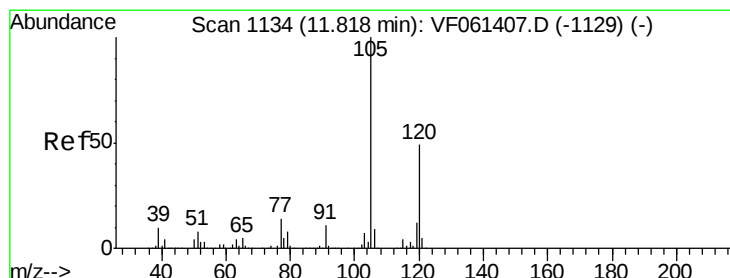
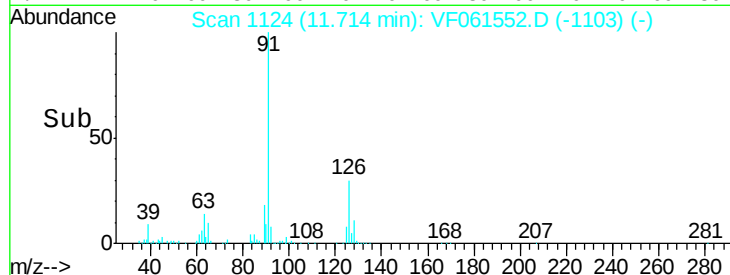
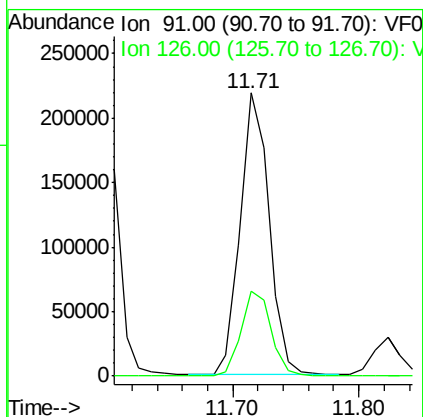
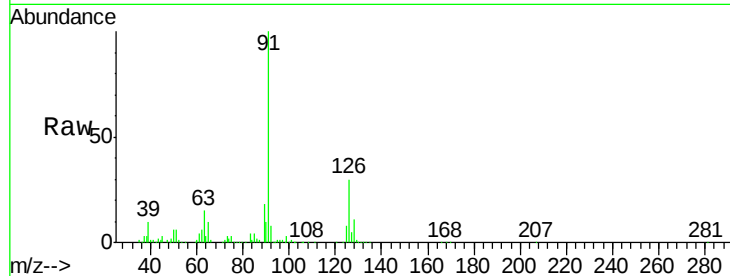




#79
 2-Chlorotoluene
 Concen: 47.609 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VF061552.D
 Acq: 7 Feb 2019 18:39

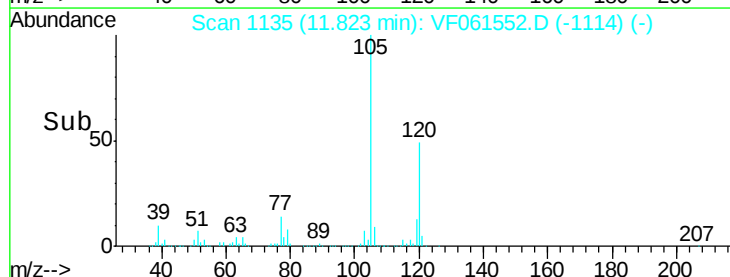
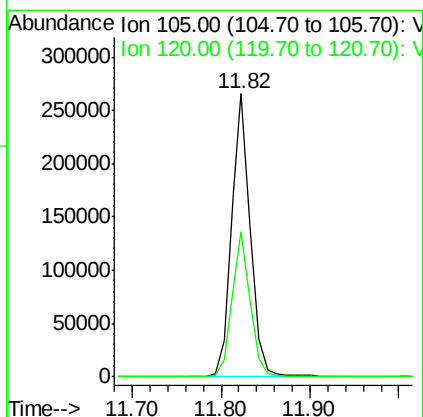
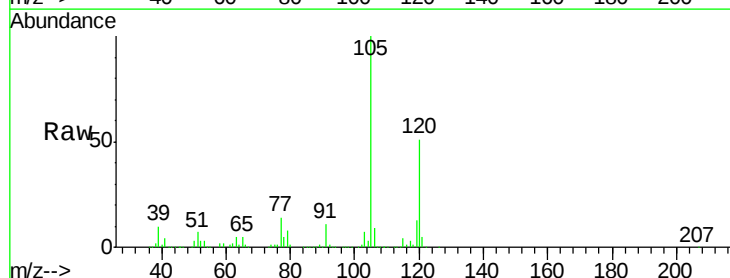
Instrument :
 MSVOA_F
 ClientSampleId :

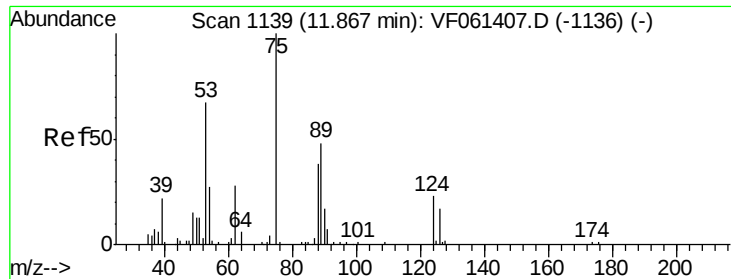
Tot Ion: 91 Resp: 345769
 Ion Ratio Lower Upper
 91 100
 126 30.2 15.0 45.1



#80
 1,3,5-Trimethylbenzene
 Concen: 46.685 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. 0.01 min
 Lab File: VF061552.D
 Acq: 7 Feb 2019 18:39

Tgt Ion: 105 Resp: 394365
 Ion Ratio Lower Upper
 105 100
 120 51.4 24.7 74.1

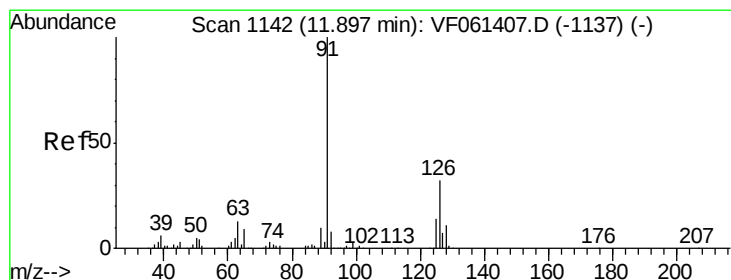
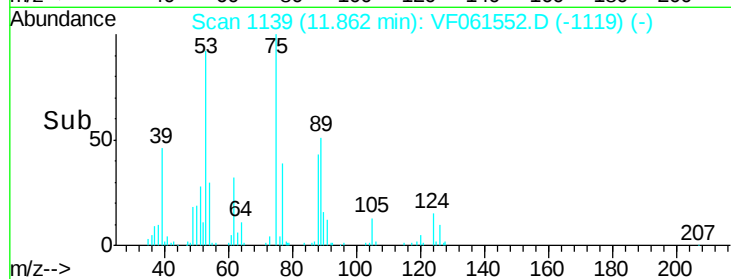
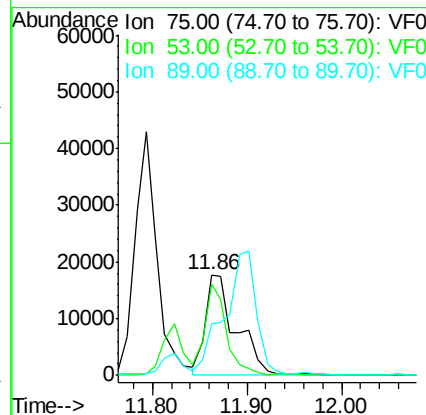
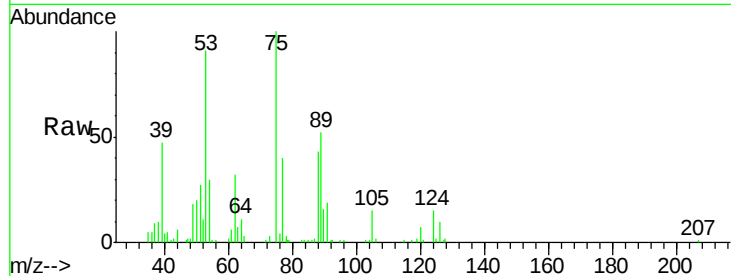




#81
trans-1,4-Dichloro-2-butene
Concen: 70.232 ug/l
RT: 11.86 min Scan# 1139
Delta R.T. -0.00 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

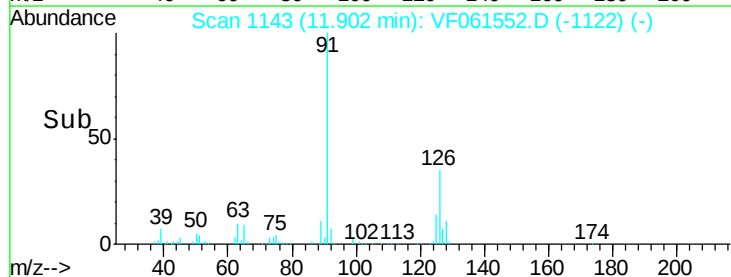
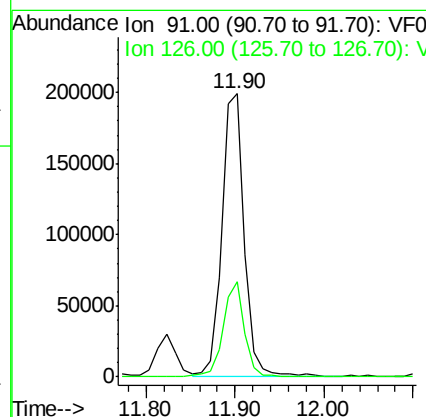
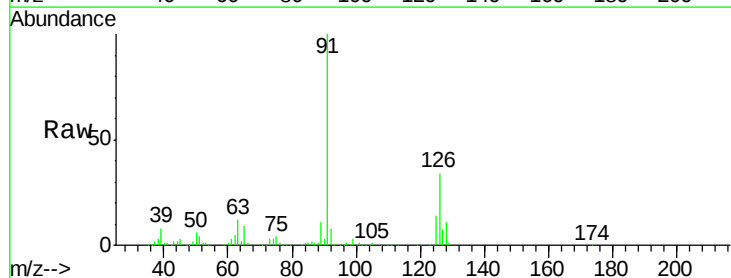
Instrument :
MSVOA_F
ClientSampleId :

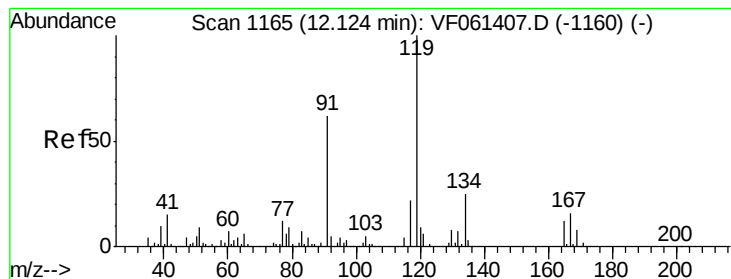
Tot Ion: 75 Resp: 40908
Ion Ratio Lower Upper
75 100
53 90.9 57.8 86.6#
89 51.7 40.7 61.1



#82
4-Chlorotoluene
Concen: 47.476 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 91 Resp: 347943
Ion Ratio Lower Upper
91 100
126 33.8 16.0 47.9





#83

tert-Butylbenzene

Concen: 47.067 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampleId :

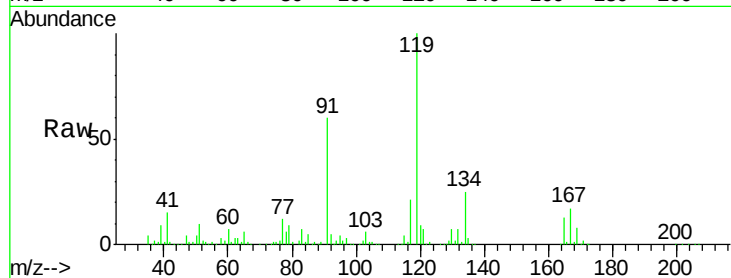
Tot Ion:119 Resp: 411513

Ion Ratio Lower Upper

119 100

91 59.8 31.3 93.8

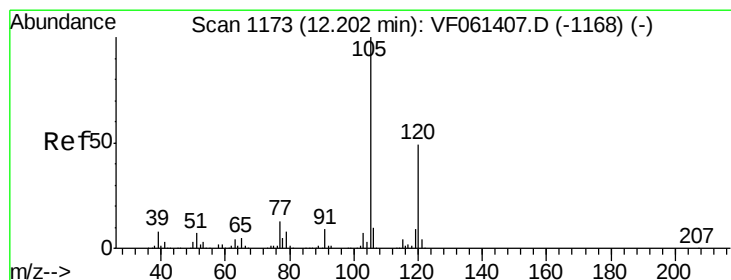
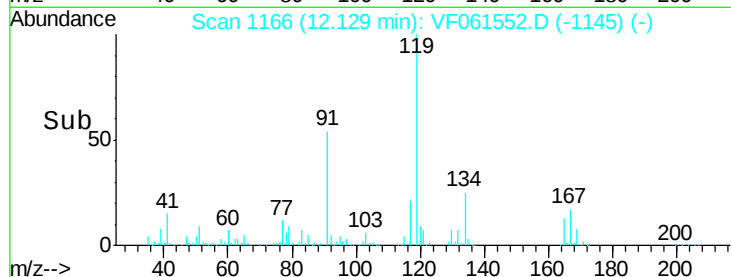
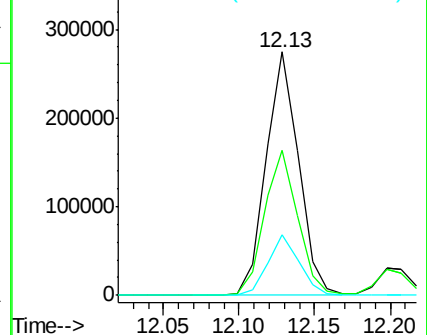
134 24.9 12.4 37.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 46.573 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VF061552.D

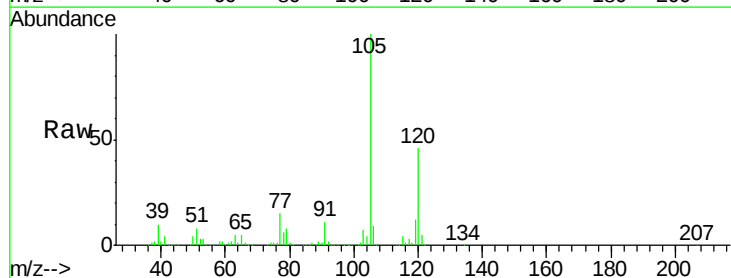
Acq: 7 Feb 2019 18:39

Tgt Ion:105 Resp: 405244

Ion Ratio Lower Upper

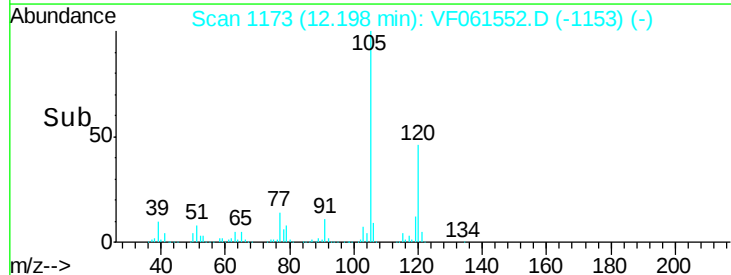
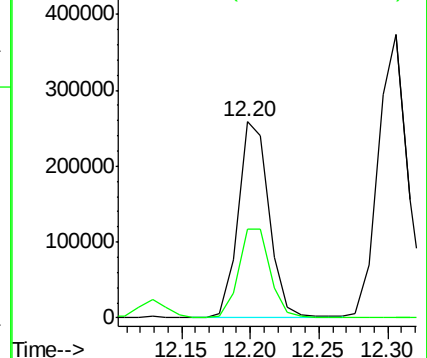
105 100

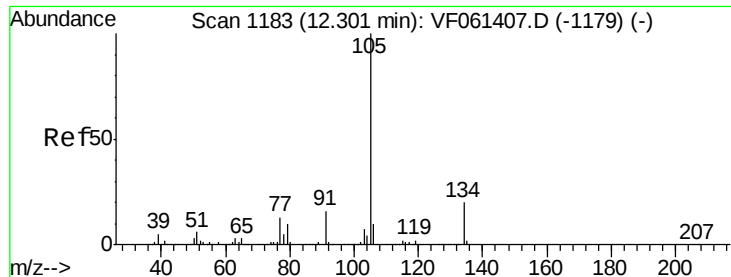
120 45.6 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 46.676 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

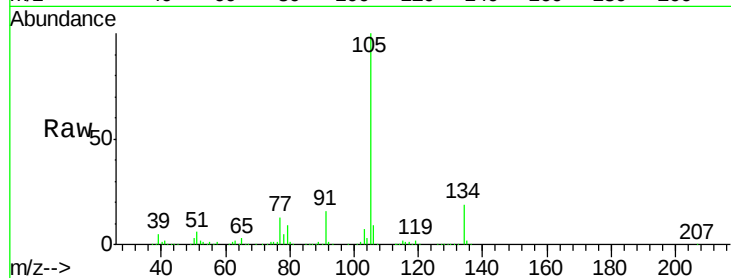
ClientSampleId :

Tot Ion:105 Resp: 554209

Ion Ratio Lower Upper

105 100

134 18.8 10.0 30.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.31

400000

300000

200000

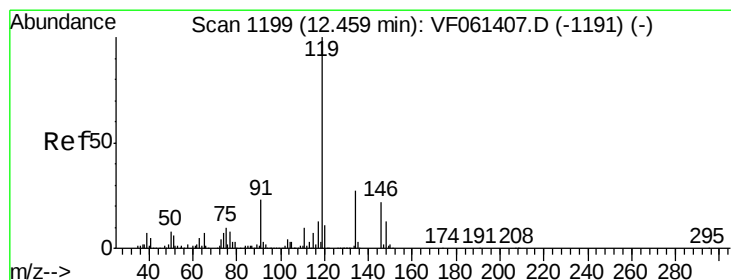
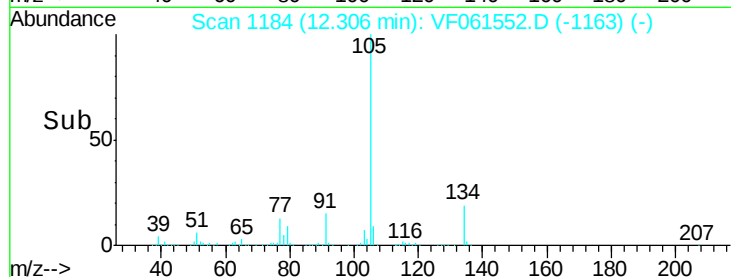
100000

0

Time--> 12.20

12.30

12.40



#86

p-Isopropyltoluene

Concen: 47.412 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

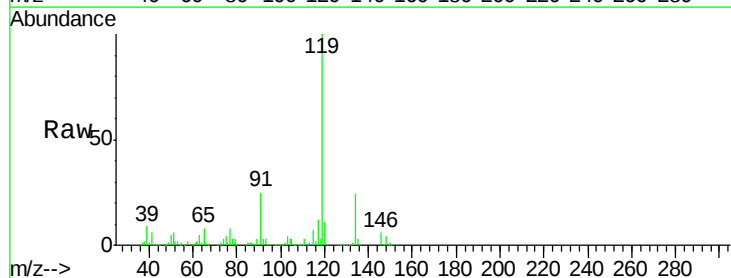
Tgt Ion:119 Resp: 462120

Ion Ratio Lower Upper

119 100

134 24.0 13.4 40.2

91 25.2 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.45

400000

300000

200000

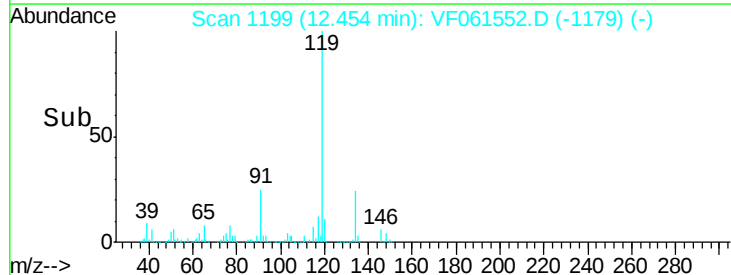
100000

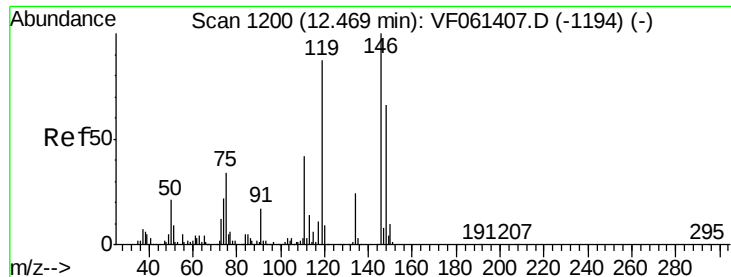
0

Time--> 12.40

12.50

12.60





#87

1,3-Dichlorobenzene

Concen: 45.840 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

Instrument :

MSVOA_F

ClientSampled :

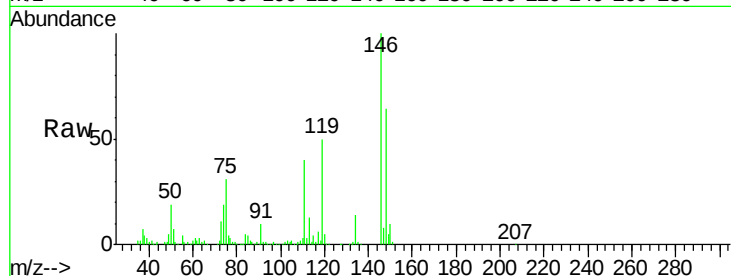
Tot Ion:146 Resp: 203256

Ion Ratio Lower Upper

146 100

111 40.1 21.1 63.4

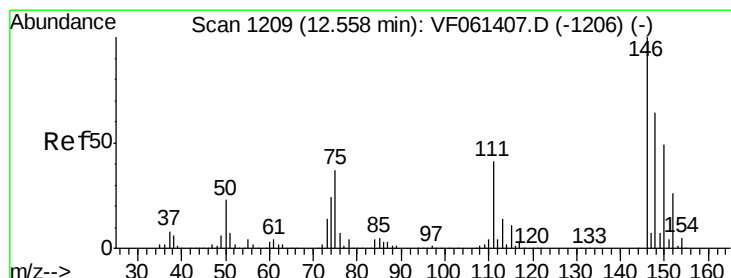
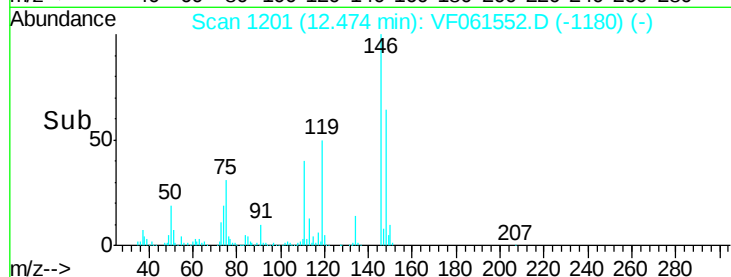
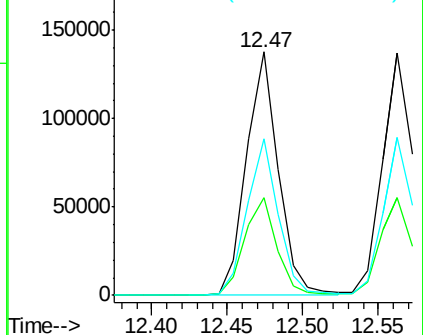
148 64.5 32.9 98.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 47.798 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061552.D

Acq: 7 Feb 2019 18:39

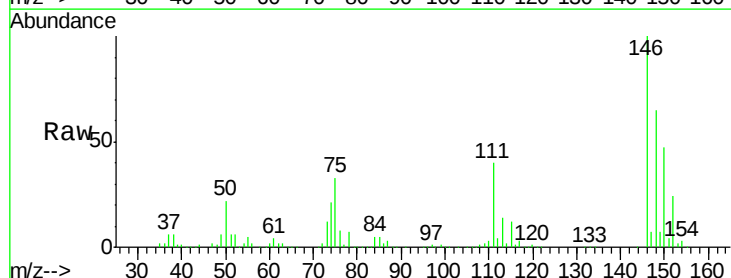
Tgt Ion:146 Resp: 199670

Ion Ratio Lower Upper

146 100

111 40.2 20.8 62.2

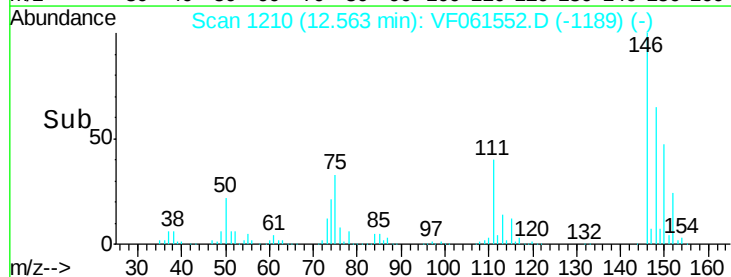
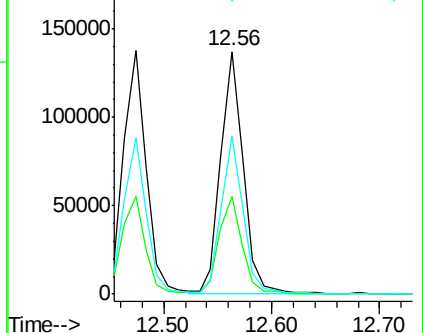
148 65.1 32.1 96.5

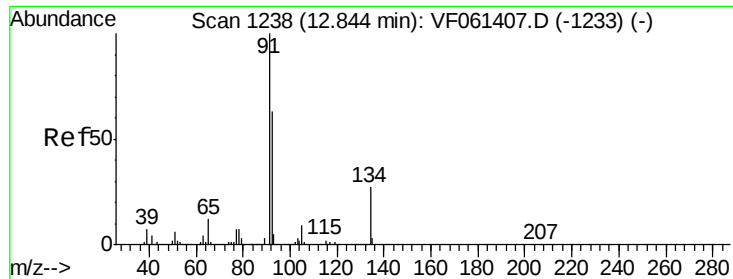


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

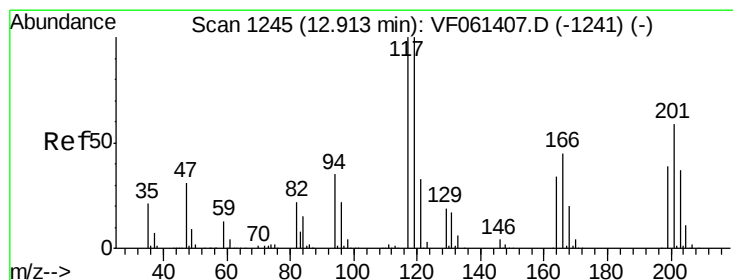
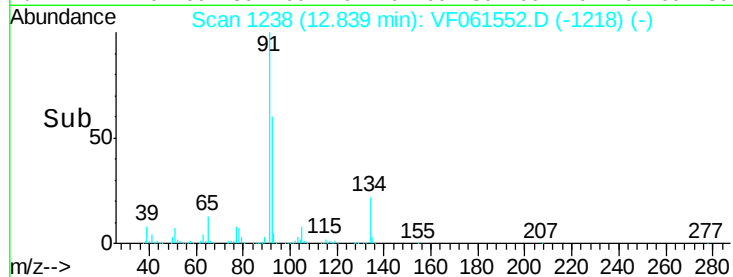
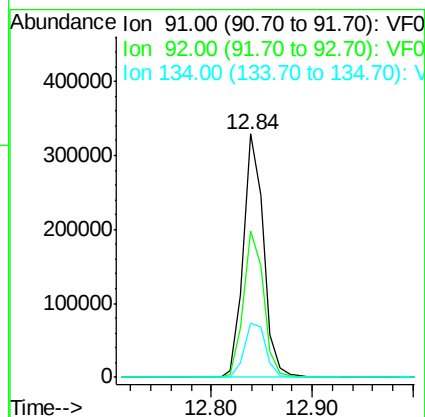
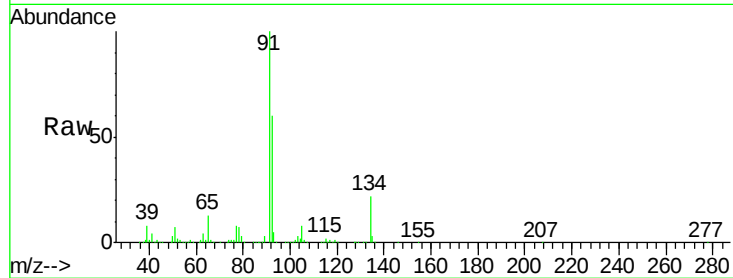




#89
n-Butylbenzene
Concen: 45.636 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

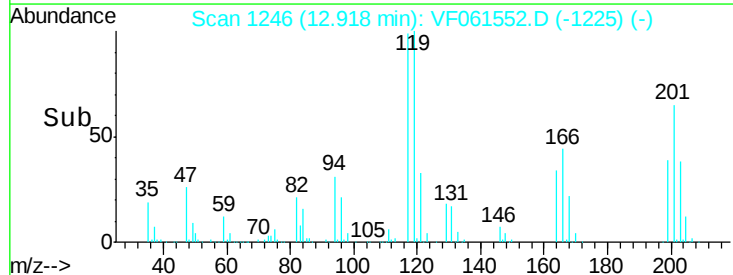
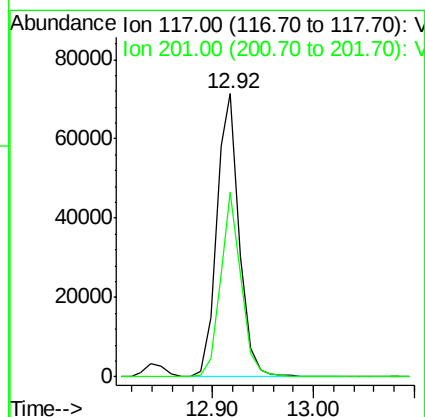
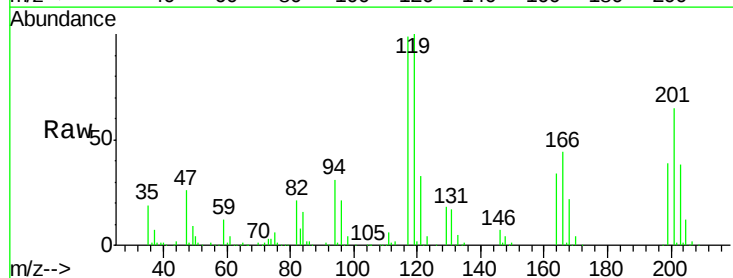
Instrument :
MSVOA_F
ClientSampleId :

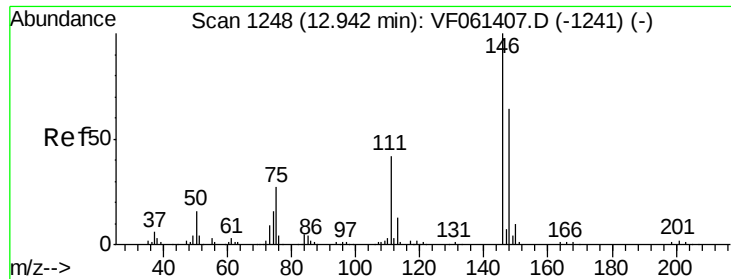
Tot Ion: 91 Resp: 458733
Ion Ratio Lower Upper
91 100
92 59.9 31.6 94.7
134 22.3 13.6 40.8



#90
Hexachloroethane
Concen: 48.400 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion: 117 Resp: 111203
Ion Ratio Lower Upper
117 100
201 65.3 29.3 87.8

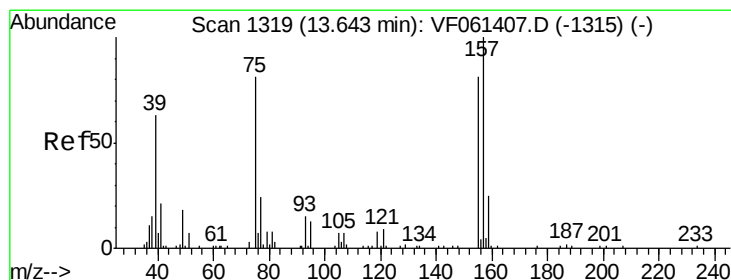
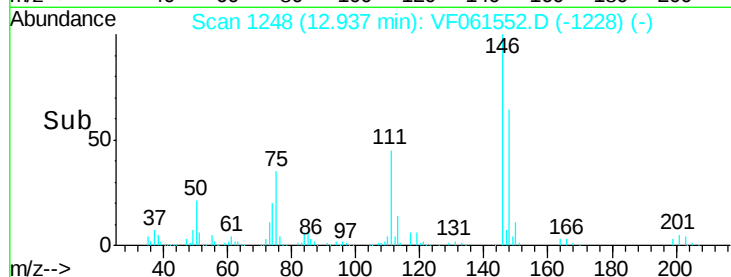
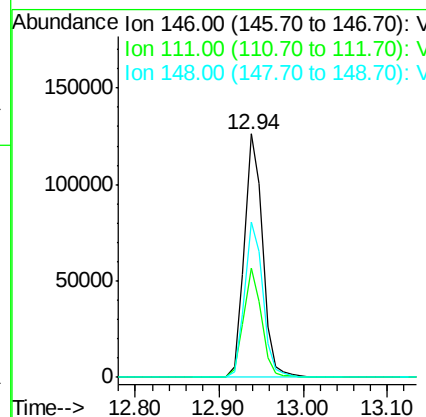
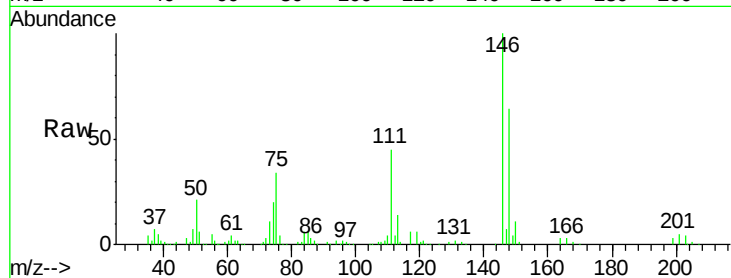




#91
 1,2-Dichlorobenzene
 Concen: 46.462 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061552.D
 Acq: 7 Feb 2019 18:39

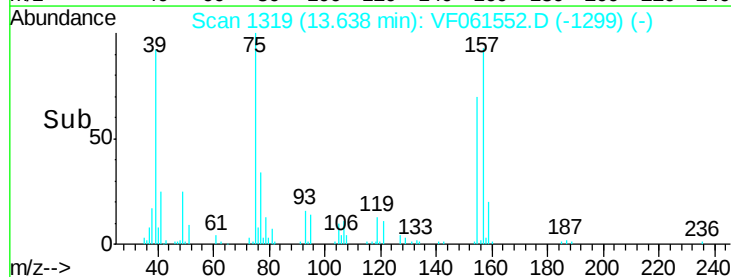
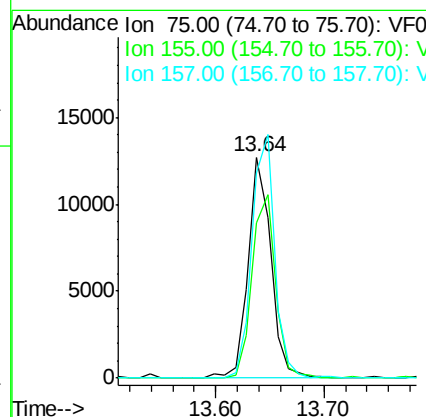
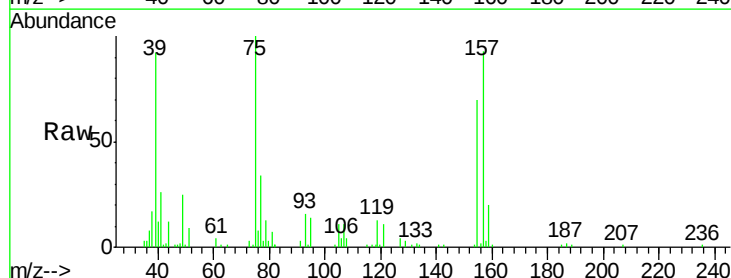
Instrument :
 MSVOA_F
 ClientSampleId :

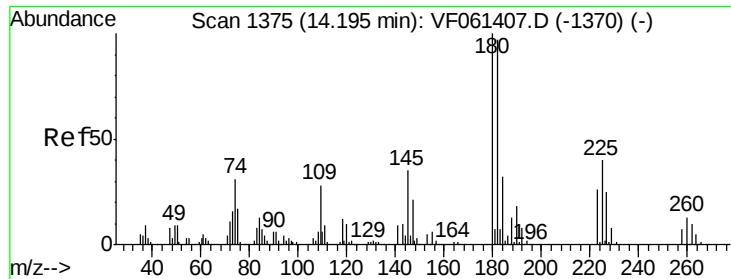
Tot Ion	Ratio	Lower	Upper
146	100		
111	45.0	21.1	63.3
148	63.5	31.9	95.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 56.645 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061552.D
 Acq: 7 Feb 2019 18:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	70.1	49.7	149.1
157	93.1	61.4	184.1

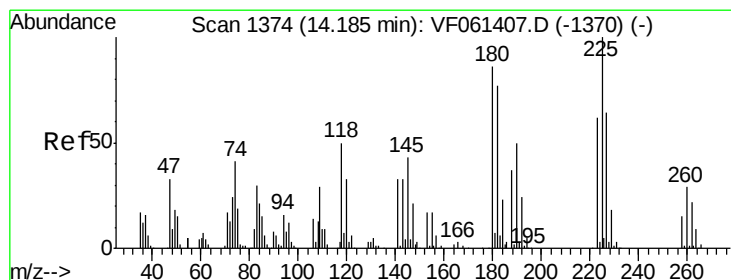
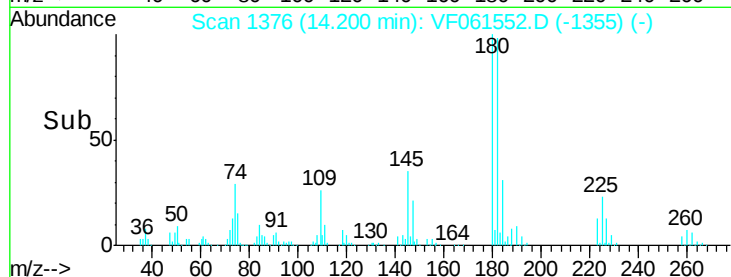
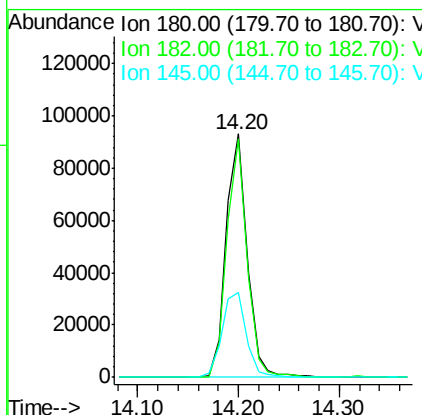
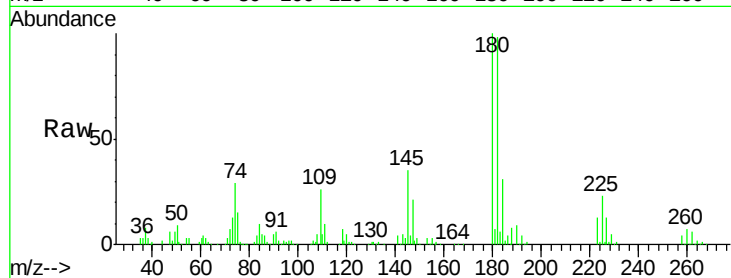




#93
 1,2,4-Trichlorobenzene
 Concen: 47.037 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061552.D
 Acq: 7 Feb 2019 18:39

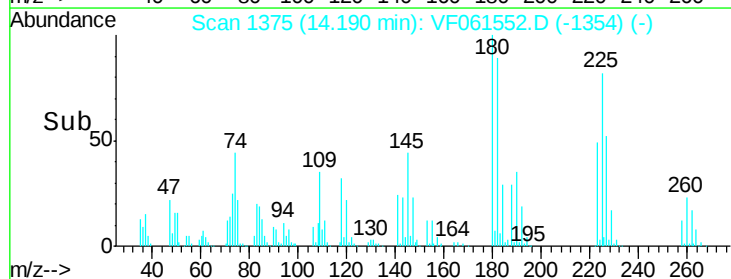
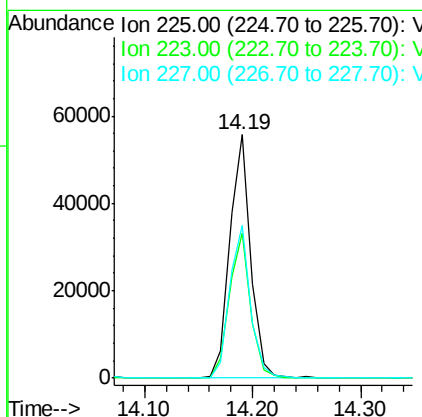
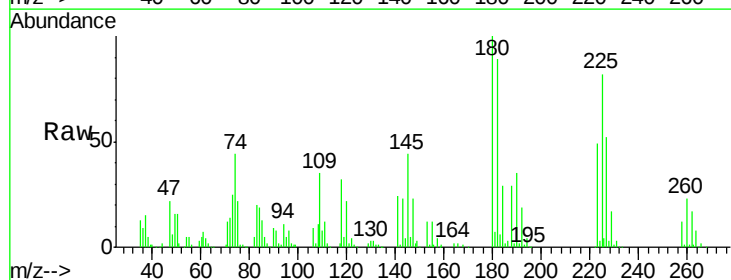
Instrument :
 MSVOA_F
 ClientSampleId :

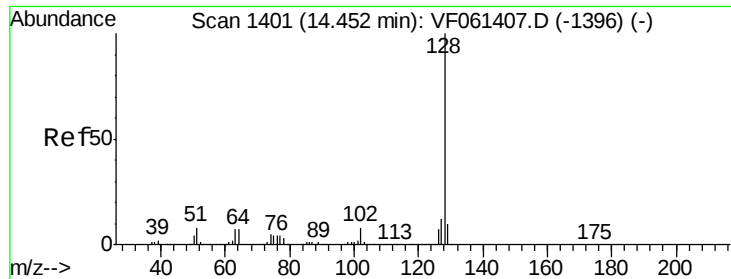
Tot Ion:180 Resp: 136263
 Ion Ratio Lower Upper
 180 100
 182 97.9 48.5 145.6
 145 35.0 17.5 52.6



#94
 Hexachlorobutadiene
 Concen: 41.808 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061552.D
 Acq: 7 Feb 2019 18:39

Tgt Ion:225 Resp: 75154
 Ion Ratio Lower Upper
 225 100
 223 59.7 31.1 93.2
 227 62.6 32.2 96.6

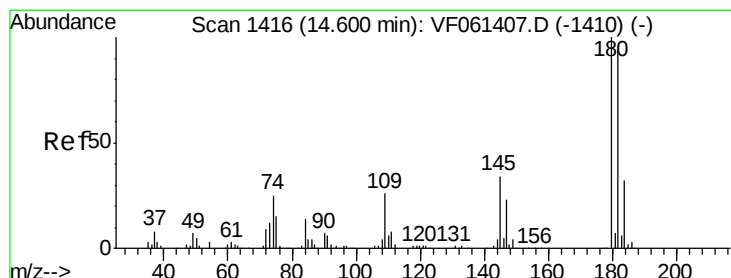
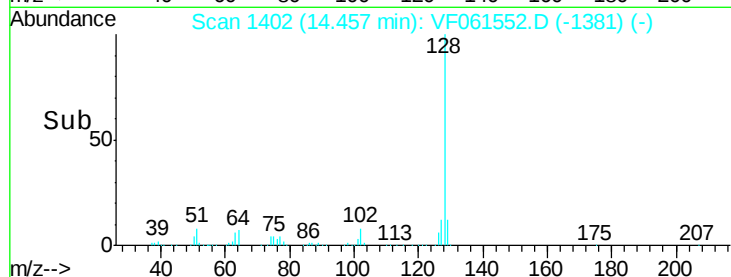
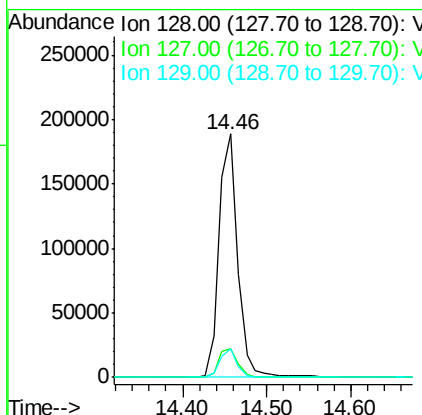
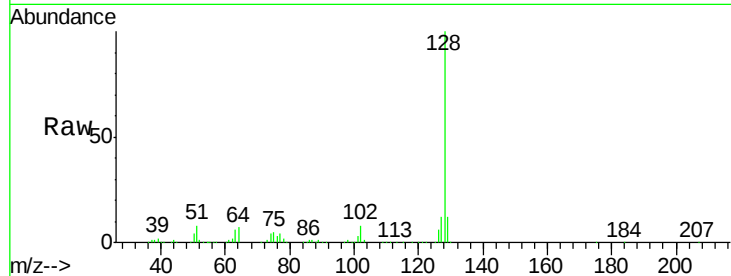




#95
Naphthalene
Concen: 53.017 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 291800
Ion Ratio Lower Upper
128 100
127 11.9 9.5 14.3
129 11.6 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 48.744 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF061552.D
Acq: 7 Feb 2019 18:39

Tgt Ion:180 Resp: 130716
Ion Ratio Lower Upper
180 100
182 93.0 47.0 141.2
145 32.7 17.1 51.2

