

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010219\
 Data File : VF061246.D
 Acq On : 2 Jan 2019 11:03
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: Jan 09 06:39:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	185061	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	306636	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	269997	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	135727	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	119671	50.28	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	100.56%	
35) Dibromofluoromethane	4.09	113	132802	54.07	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	108.14%	
50) Toluene-d8	7.53	98	361882	51.99	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	103.98%	
62) 4-Bromofluorobenzene	11.40	95	170039	52.99	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	105.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	179228	43.568	ug/l	98
3) Chloromethane	1.10	50	119778	50.830	ug/l	99
4) Vinyl Chloride	1.13	62	113660	51.995	ug/l #	87
5) Bromomethane	1.33	94	77388	51.041	ug/l	96
6) Chloroethane	1.38	64	48388	48.040	ug/l #	87
7) Trichlorofluoromethane	1.48	101	212765	50.976	ug/l	98
8) Diethyl Ether	1.62	74	31245	54.666	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.83	101	108395	50.088	ug/l	91
10) Methyl Iodide	1.90	142	142240	41.697	ug/l	90
11) Tert butyl alcohol	2.56	59	27510	286.411	ug/l	96
12) 1,1-Dichloroethene	1.78	96	89236	54.702	ug/l	94
13) Acrolein	1.99	56	14896	214.622	ug/l	91
14) Allyl chloride	2.08	41	123227	72.587	ug/l	86
15) Acrylonitrile	2.93	53	65557	295.159	ug/l	97
16) Acetone	2.23	43	128113	269.242	ug/l #	89
17) Carbon Disulfide	1.82	76	188174	38.170	ug/l	97
18) Methyl Acetate	2.41	43	57200	58.104	ug/l	98
19) Methyl tert-butyl Ether	2.41	73	188029	51.928	ug/l	97
20) Methylene Chloride	2.24	84	51283	32.121	ug/l	94
21) trans-1,2-Dichloroethene	2.29	96	91857	52.647	ug/l	92
22) Diisopropyl ether	2.79	45	311643	55.111	ug/l	94
23) Vinyl Acetate	3.17	43	678220	259.981	ug/l	99
24) 1,1-Dichloroethane	2.86	63	187821	56.058	ug/l	98
25) 2-Butanone	4.32	43	205893	266.803	ug/l	98
26) 2,2-Dichloropropane	3.58	77	109509	56.954	ug/l	95
27) cis-1,2-Dichloroethene	3.46	96	137742	51.567	ug/l	95
28) Bromochloromethane	3.70	49	89737	52.785	ug/l	99
29) Tetrahydrofuran	4.05	42	88194	280.791	ug/l	96
30) Chloroform	3.83	83	251669	50.095	ug/l	96
31) Cyclohexane	3.67	56	118514	34.088	ug/l	95
32) 1,1,1-Trichloroethane	4.07	97	147696	49.049	ug/l	96
36) 1,1-Dichloropropene	4.26	75	190714	51.526	ug/l	99
37) Ethyl Acetate	4.09	43	77100	54.402	ug/l	88
38) Carbon Tetrachloride	3.97	117	154763	54.906	ug/l	92

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	204127	61.474	ug/l	98
40) Benzene	4.61	78	403205	50.656	ug/l	96
41) Methacrylonitrile	4.72	41	39228	50.184	ug/l #	85
42) 1,2-Dichloroethane	4.92	62	150005	49.609	ug/l	97
43) Isopropyl Acetate	6.94	43	102216	57.194	ug/l #	99
44) Trichloroethene	5.48	130	137354	54.734	ug/l	96
45) 1,2-Dichloropropane	6.21	63	114473	52.861	ug/l	99
46) Dibromomethane	6.06	93	75957	54.079	ug/l	97
47) Bromodichloromethane	6.37	83	186304	51.051	ug/l	100
48) Methyl methacrylate	6.69	41	62127	49.796	ug/l	89
49) 1,4-Dioxane	6.68	88	11671	1289.207	ug/l	91
51) 4-Methyl-2-Pentanone	8.24	43	350133	285.663	ug/l	99
52) Toluene	7.61	92	273499	51.908	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	156277	53.083	ug/l	96
54) cis-1,3-Dichloropropene	7.29	75	202746	54.871	ug/l	96
55) 1,1,2-Trichloroethane	8.47	97	83374	52.784	ug/l	98
56) Ethyl methacrylate	8.60	69	92522	54.132	ug/l	97
57) 1,3-Dichloropropane	8.83	76	146192	51.174	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.28	63	50385	153.491	ug/l #	87
59) 2-Hexanone	9.48	43	254470	287.087	ug/l	97
60) Dibromochloromethane	8.70	129	122687	54.185	ug/l	96
61) 1,2-Dibromoethane	8.97	107	86495	51.274	ug/l	98
64) Tetrachloroethene	8.13	164	121765	58.626	ug/l	93
65) Chlorobenzene	9.78	112	307215	55.079	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.91	131	128159	56.225	ug/l	96
67) Ethyl Benzene	9.88	91	552415	54.363	ug/l	99
68) m/p-Xylenes	10.12	106	388829	108.729	ug/l	93
69) o-Xylene	10.70	106	216012	54.464	ug/l	95
70) Styrene	10.78	104	300764	63.556	ug/l	99
71) Bromoform	10.76	173	62473	59.241	ug/l #	99
73) Isopropylbenzene	11.11	105	640985	54.802	ug/l	100
74) N-amyl acetate	11.36	43	158305	60.962	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	110534	56.941	ug/l	94
76) 1,2,3-Trichloropropane	11.78	75	76876	53.215	ug/l	99
77) Bromobenzene	11.48	156	138466	54.994	ug/l	92
78) n-propylbenzene	11.58	91	716073	54.095	ug/l	99
79) 2-Chlorotoluene	11.71	91	433853	54.072	ug/l	98
80) 1,3,5-Trimethylbenzene	11.81	105	510033	52.957	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.85	75	45025	72.530	ug/l	96
82) 4-Chlorotoluene	11.88	91	410674	49.477	ug/l	96
83) tert-Butylbenzene	12.12	119	531408	53.620	ug/l	100
84) 1,2,4-Trimethylbenzene	12.19	105	499509	52.009	ug/l	99
85) sec-Butylbenzene	12.30	105	704940	54.506	ug/l	97
86) p-Isopropyltoluene	12.45	119	581344	54.152	ug/l	100
87) 1,3-Dichlorobenzene	12.46	146	242243	60.034	ug/l	95
88) 1,4-Dichlorobenzene	12.55	146	247335	53.497	ug/l	99
89) n-Butylbenzene	12.83	91	607939	58.383	ug/l	97
90) Hexachloroethane	12.91	117	148387	55.946	ug/l	77
91) 1,2-Dichlorobenzene	12.93	146	242037	53.772	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	19845	55.710	ug/l	99

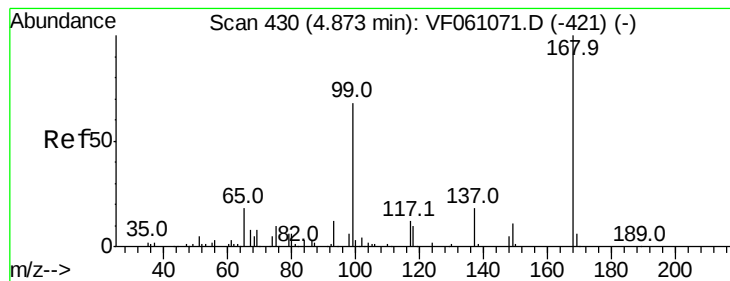
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	176252	55.213	ug/l	92
94) Hexachlorobutadiene	14.18	225	119062	58.560	ug/l	95
95) Naphthalene	14.45	128	333802	57.265	ug/l	100
96) 1,2,3-Trichlorobenzene	14.60	180	163332	55.347	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

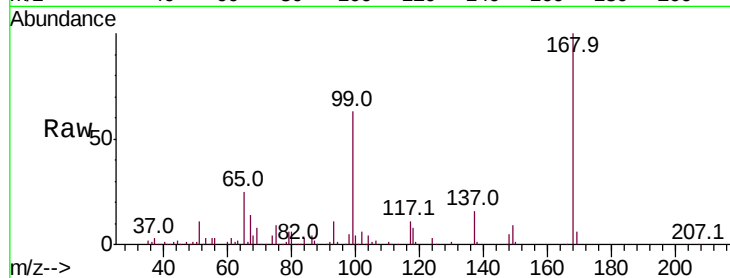
VSTDCCC050

Tot Ion:168 Resp: 185061

Ion Ratio Lower Upper

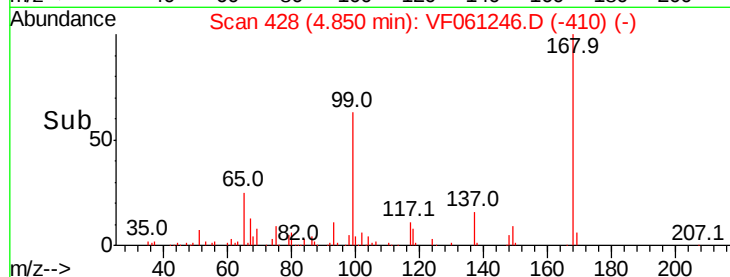
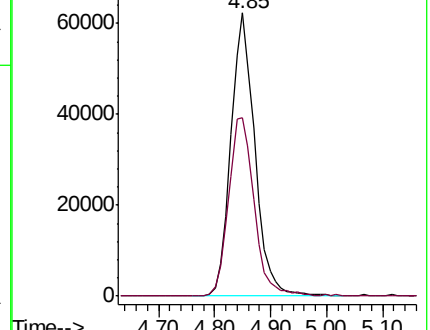
168 100

99 63.0 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 43.568 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061246.D

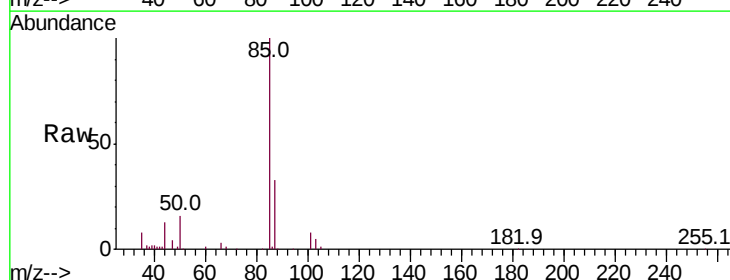
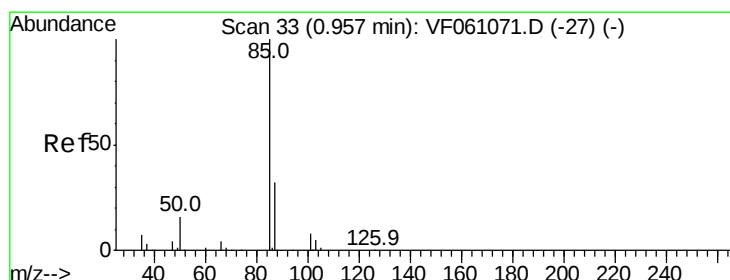
Acq: 2 Jan 2019 11:03

Tgt Ion: 85 Resp: 179228

Ion Ratio Lower Upper

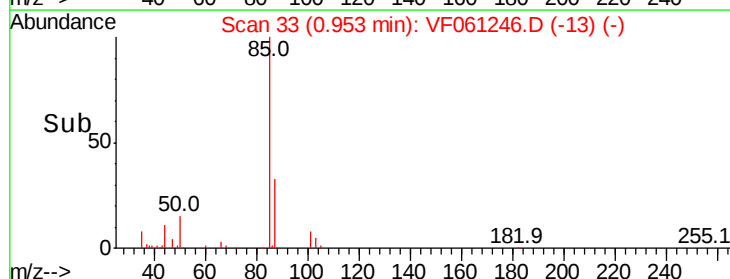
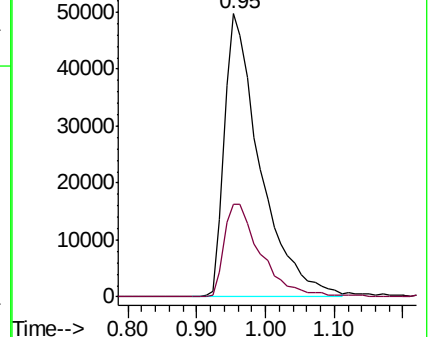
85 100

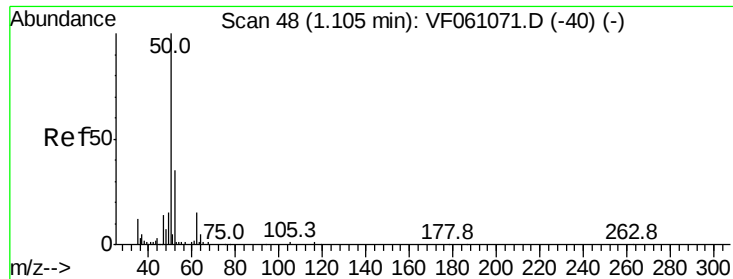
87 33.0 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 50.830 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

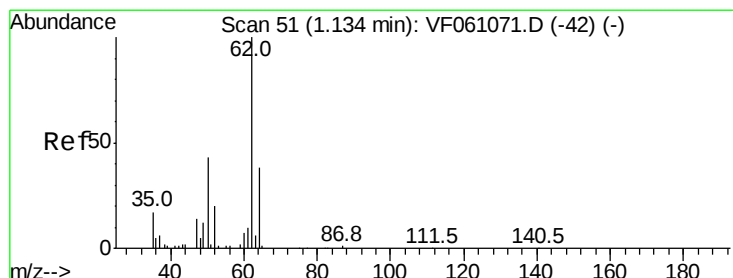
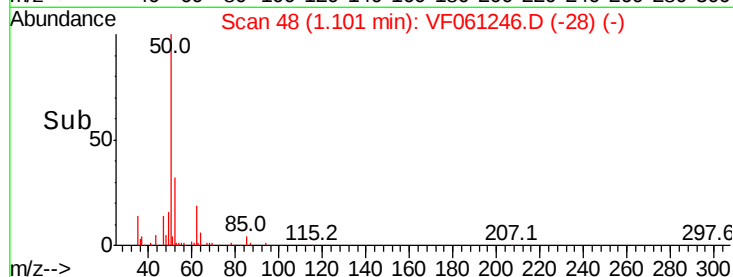
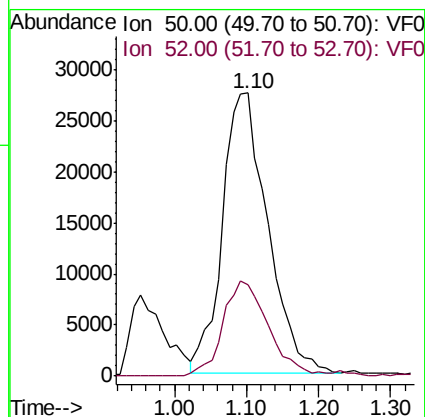
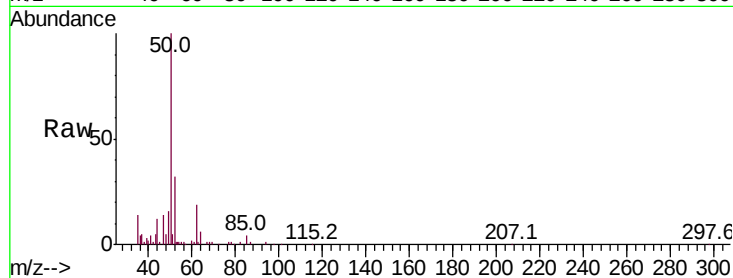
VSTDCCC050

Tot Ion: 50 Resp: 119778

Ion Ratio Lower Upper

50 100

52 32.3 26.3 39.5



#4

Vinyl Chloride

Concen: 51.995 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061246.D

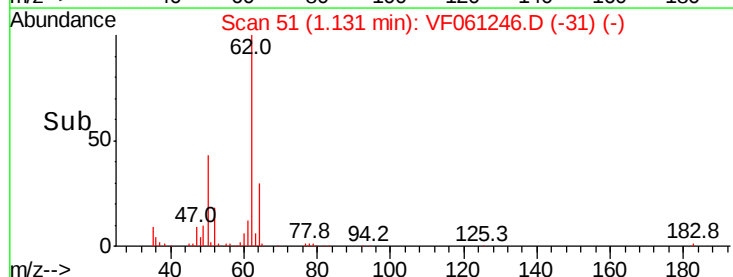
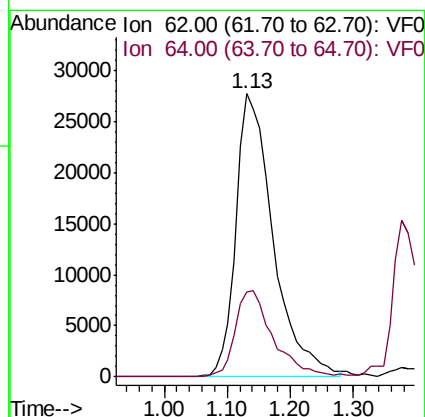
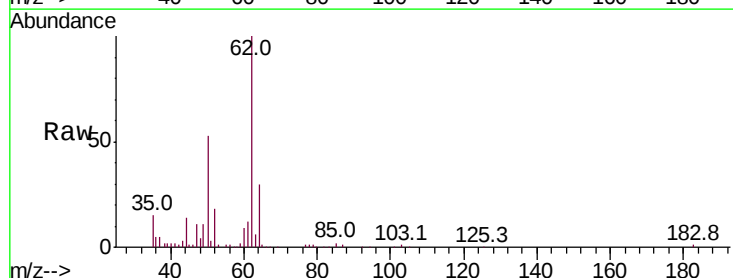
Acq: 2 Jan 2019 11:03

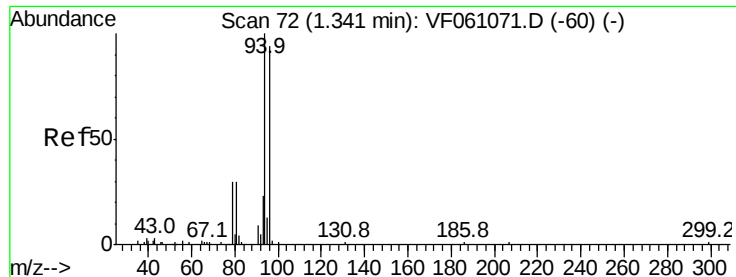
Tgt Ion: 62 Resp: 113660

Ion Ratio Lower Upper

62 100

64 30.1 30.4 45.6#





#5

Bromomethane

Concen: 51.041 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

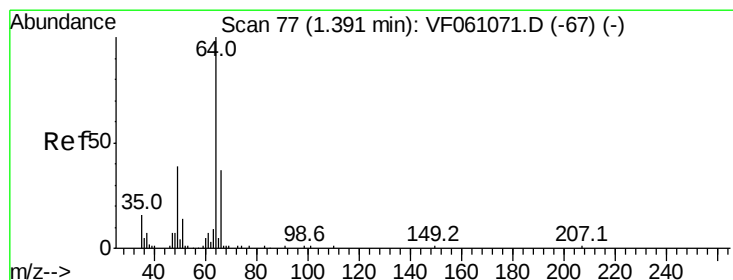
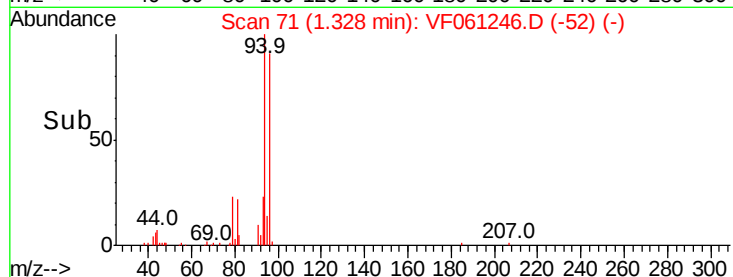
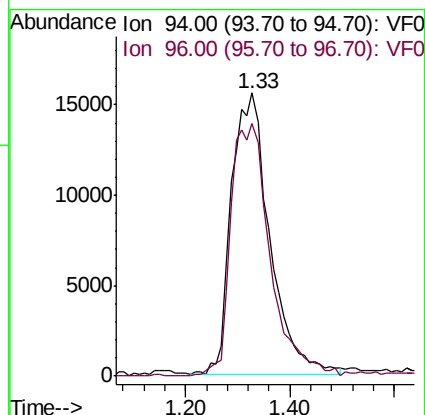
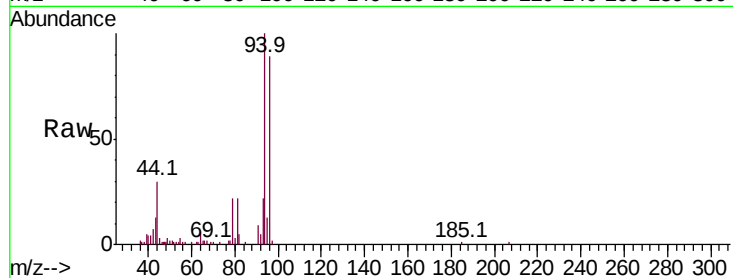
VSTDCCC050

Tot Ion: 94 Resp: 77388

Ion Ratio Lower Upper

94 100

96 89.2 74.4 111.6



#6

Chloroethane

Concen: 48.040 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061246.D

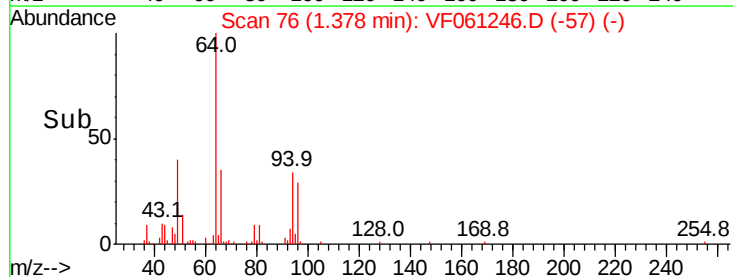
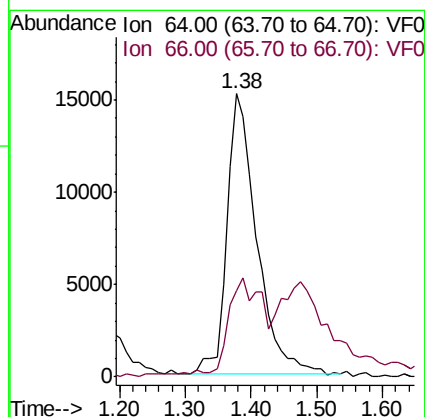
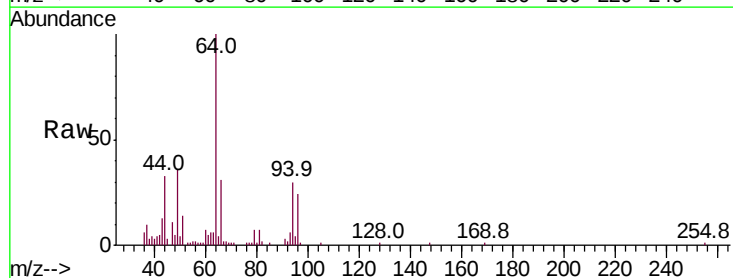
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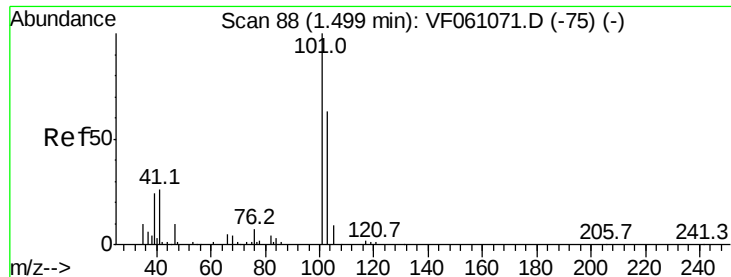
Tgt Ion: 64 Resp: 48388

Ion Ratio Lower Upper

64 100

66 30.6 30.9 46.3#





#7

Trichlorofluoromethane

Concen: 50.976 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

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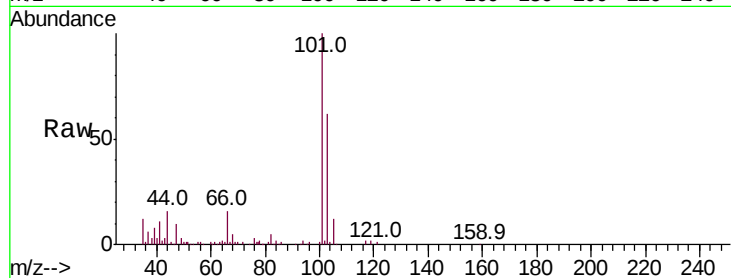
VSTDCCC050

Tot Ion:101 Resp: 212765

Ion Ratio Lower Upper

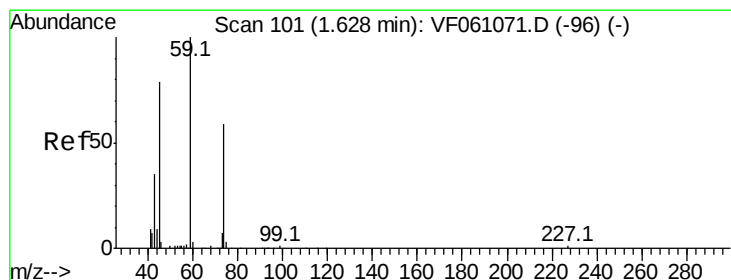
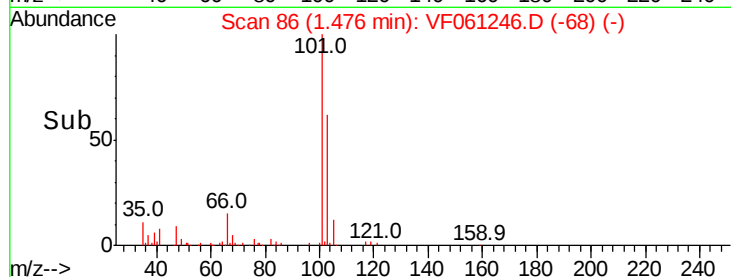
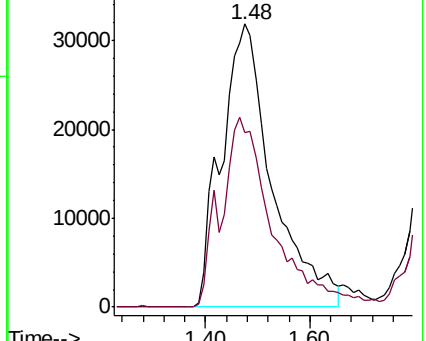
101 100

103 61.6 50.7 76.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 54.666 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061246.D

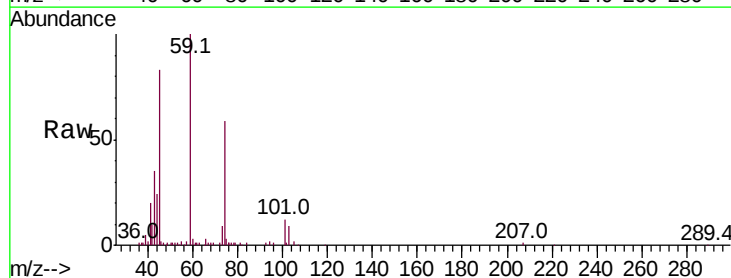
Acq: 2 Jan 2019 11:03

Tgt Ion: 74 Resp: 31245

Ion Ratio Lower Upper

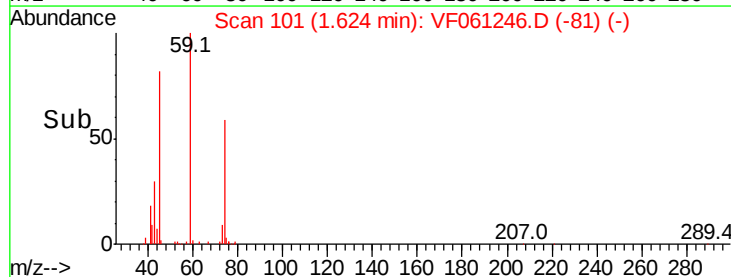
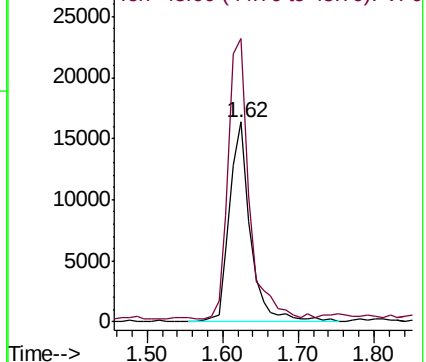
74 100

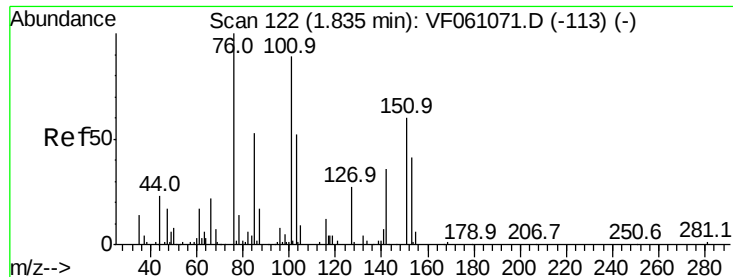
45 141.4 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.088 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

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VSTDCCC050

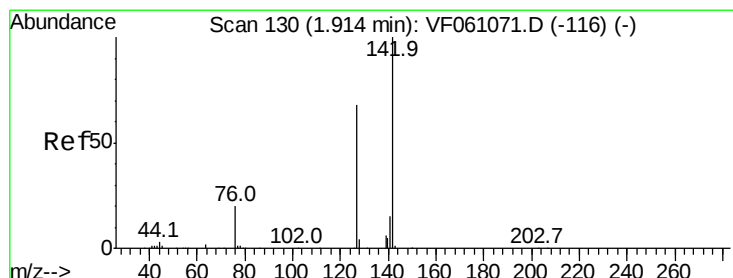
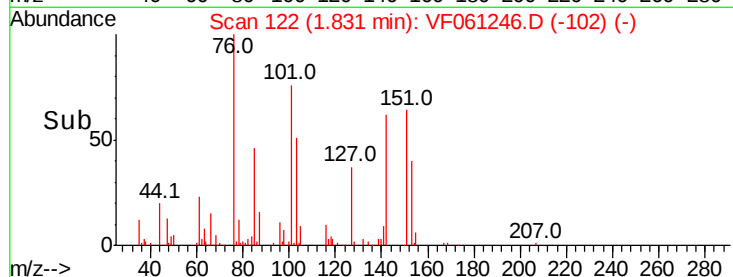
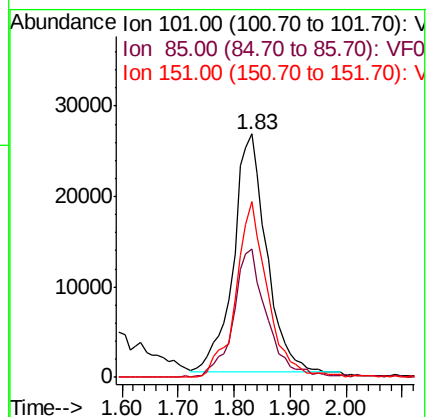
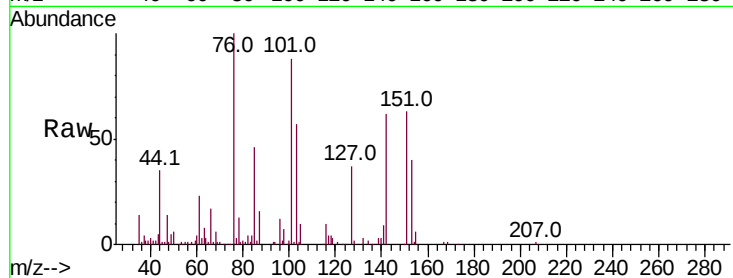
Tot Ion:101 Resp: 108395

Ion Ratio Lower Upper

101 100

85 52.5 44.5 66.7

151 72.0 49.9 74.9



#10

Methyl Iodide

Concen: 41.697 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

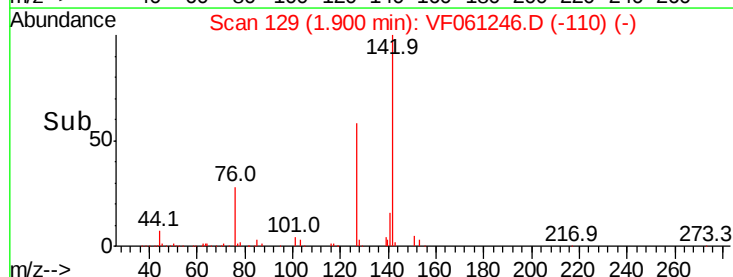
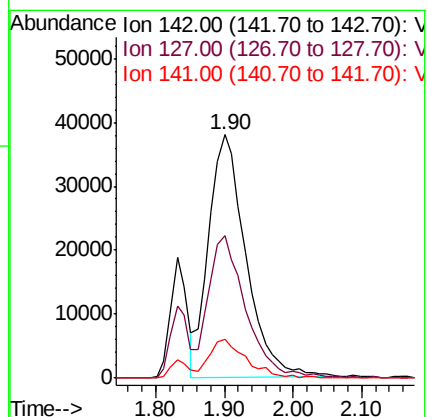
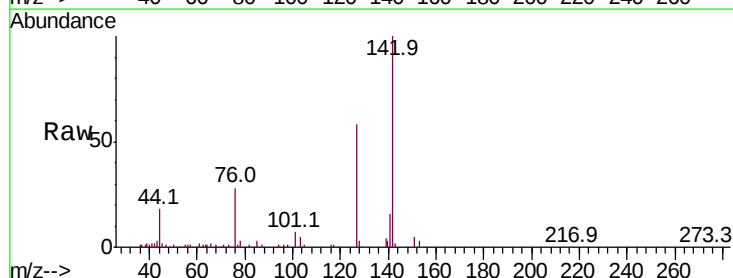
Tgt Ion:142 Resp: 142240

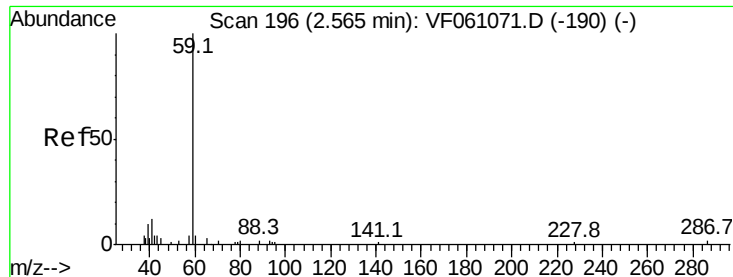
Ion Ratio Lower Upper

142 100

127 58.5 54.7 82.1

141 16.0 12.2 18.2



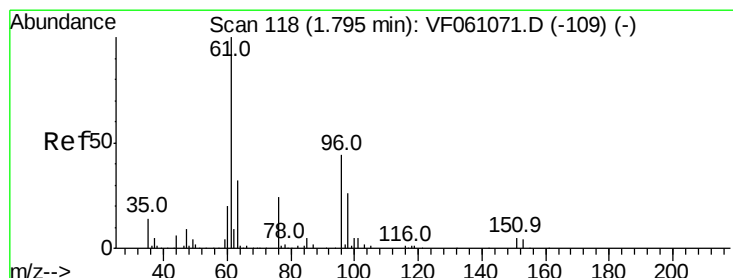
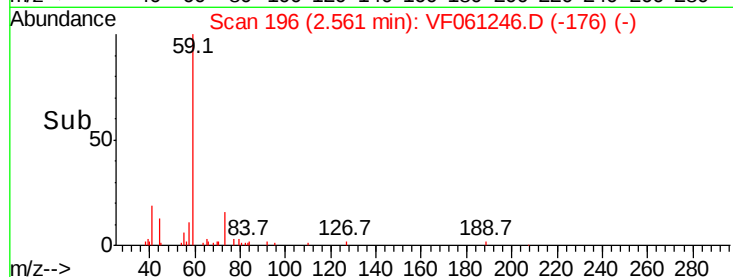
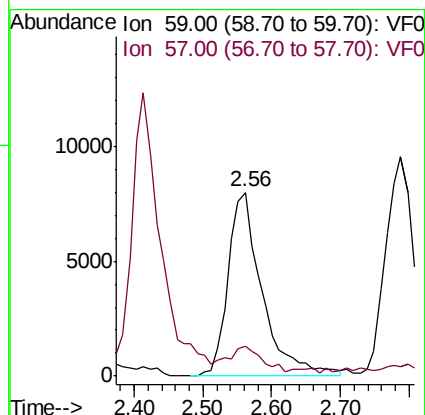
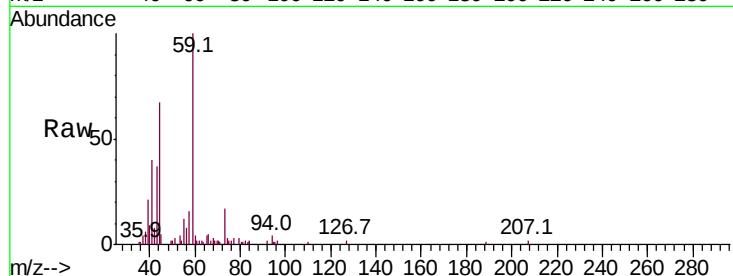


#11

Tert butyl alcohol
 Concen: 286.411 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.00 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

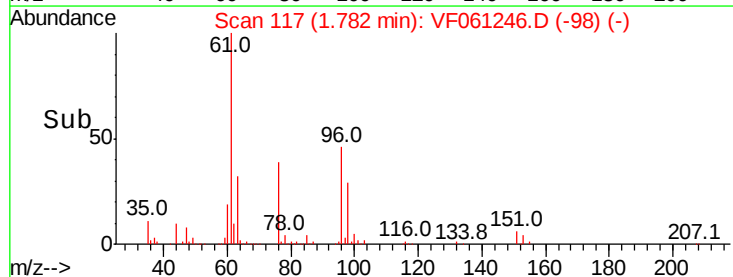
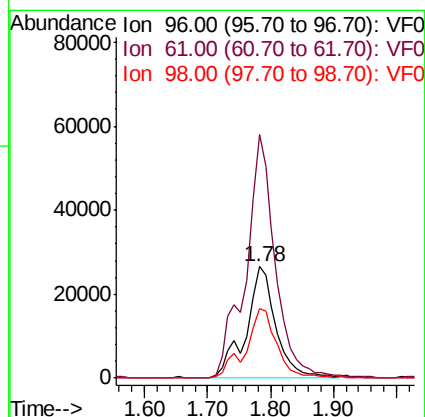
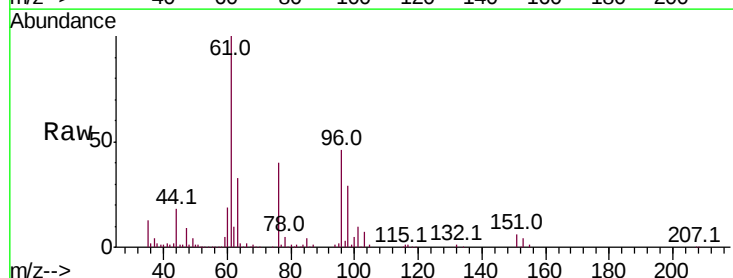
Tot Ion: 59 Resp: 27510
 Ion Ratio Lower Upper
 59 100
 57 16.0 11.5 17.3

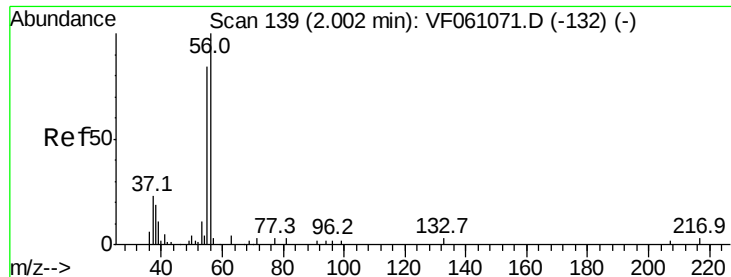


#12

1,1-Dichloroethene
 Concen: 54.702 ug/l
 RT: 1.78 min Scan# 117
 Delta R.T. -0.01 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

Tgt Ion: 96 Resp: 89236
 Ion Ratio Lower Upper
 96 100
 61 218.7 182.0 273.0
 98 63.0 46.5 69.7





#13

Acrolein

Concen: 214.622 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

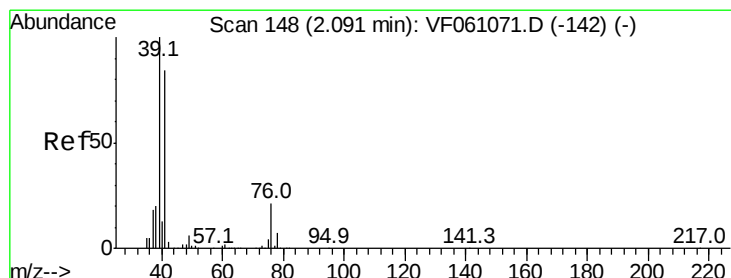
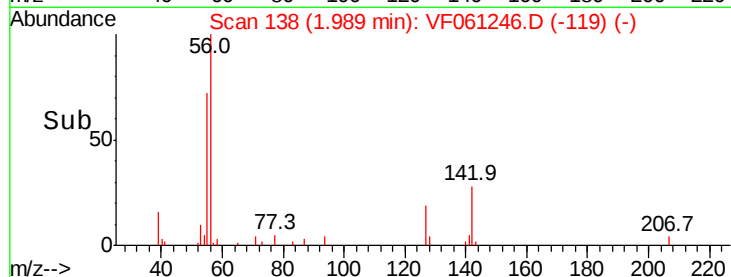
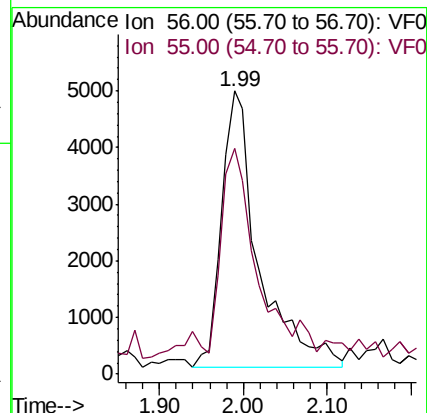
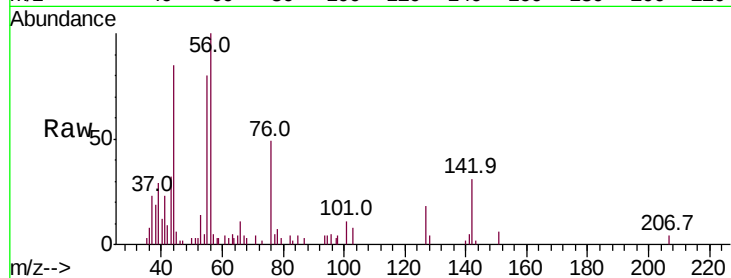
VSTDCCC050

Tot Ion: 56 Resp: 14896

Ion Ratio Lower Upper

56 100

55 79.6 70.2 105.2



#14

Allyl chloride

Concen: 72.587 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

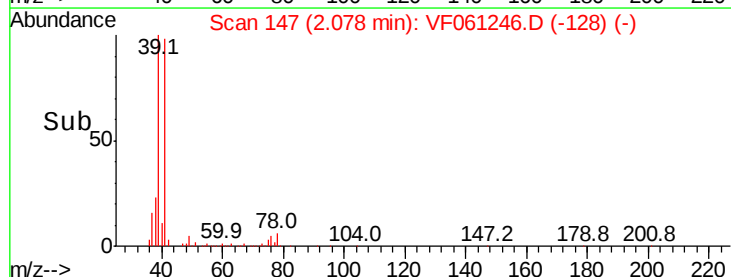
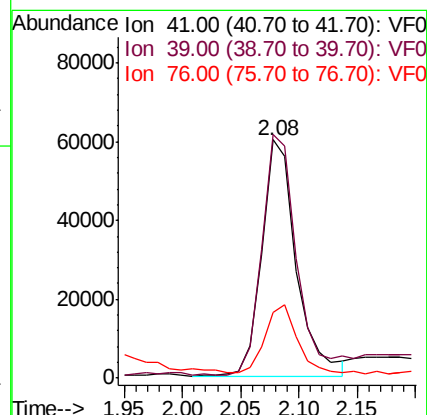
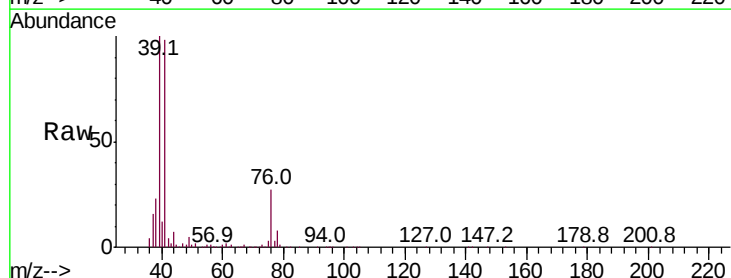
Tgt Ion: 41 Resp: 123227

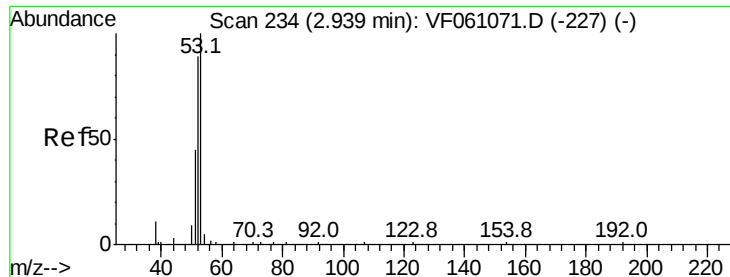
Ion Ratio Lower Upper

41 100

39 102.3 96.4 144.6

76 27.7 25.4 38.0





#15

Acrylonitrile

Concen: 295.159 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

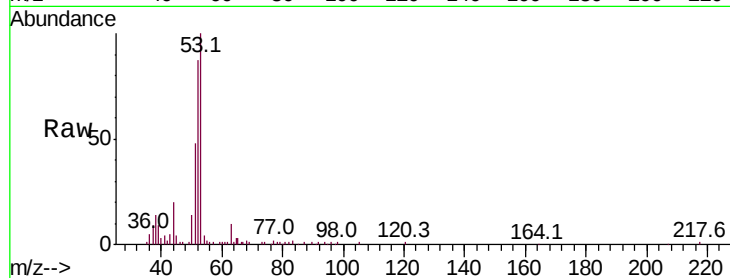
MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 65557

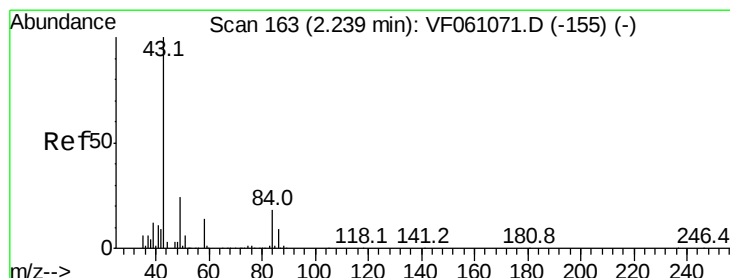
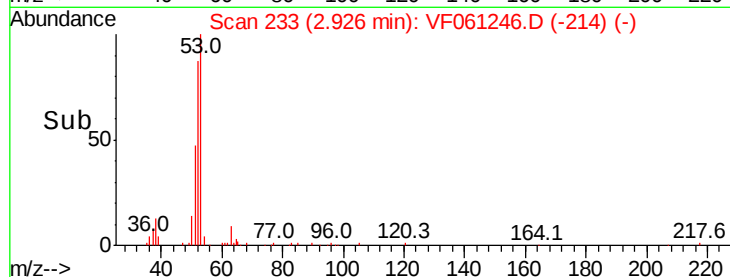
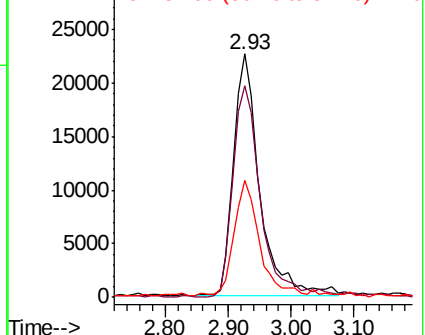
Ion	Ratio	Lower	Upper
53	100		
52	86.7	71.3	106.9
51	48.1	36.8	55.2



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: 269.242 ug/l

RT: 2.23 min Scan# 162

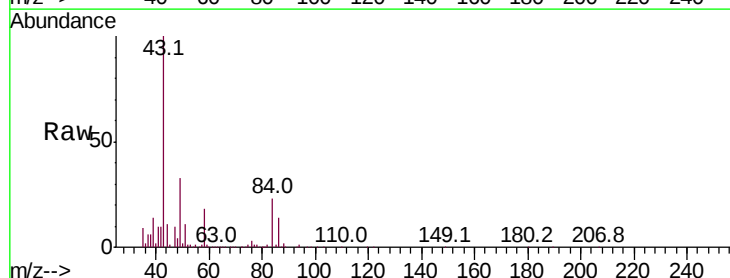
Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

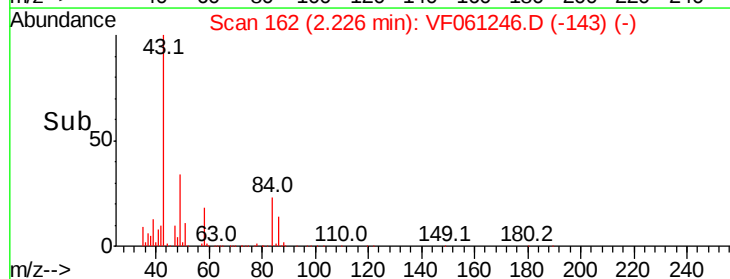
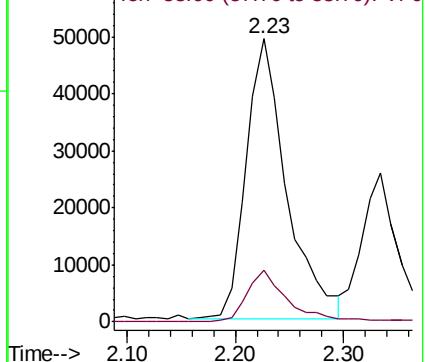
Tgt Ion: 43 Resp: 128113

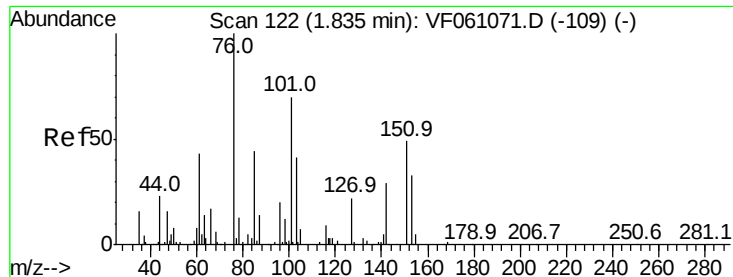
Ion	Ratio	Lower	Upper
43	100		
58	18.4	11.1	16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

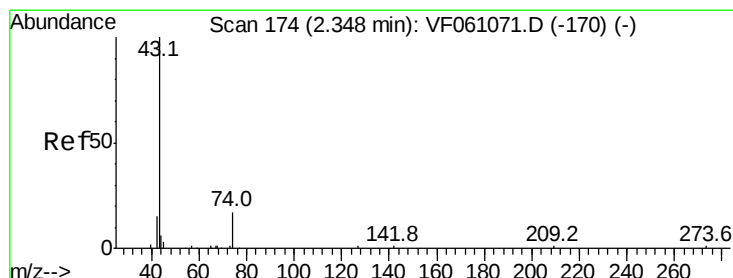
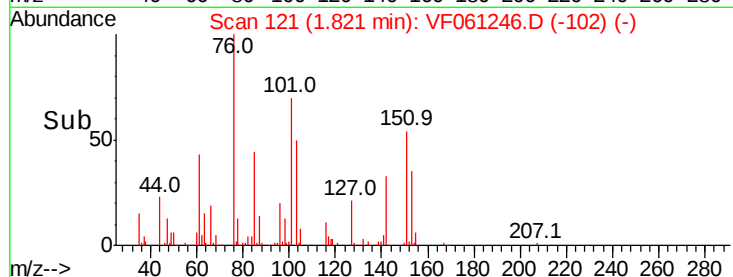
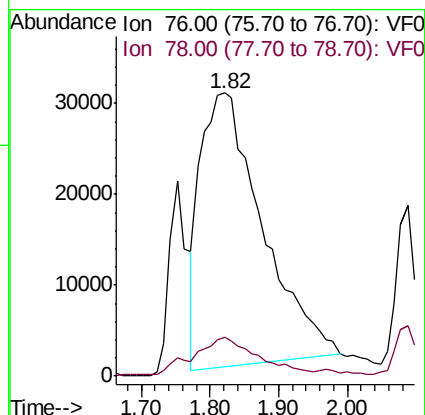
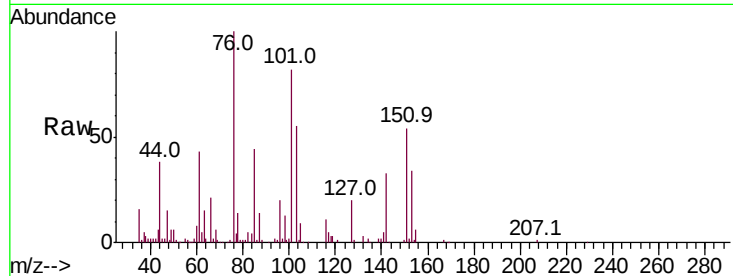




#17
Carbon Disulfide
Concen: 38.170 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

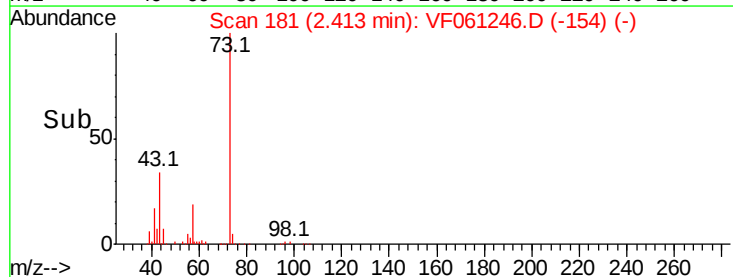
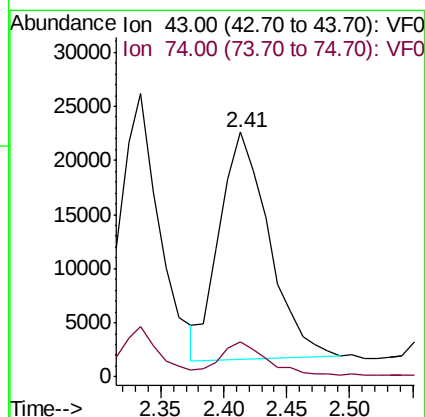
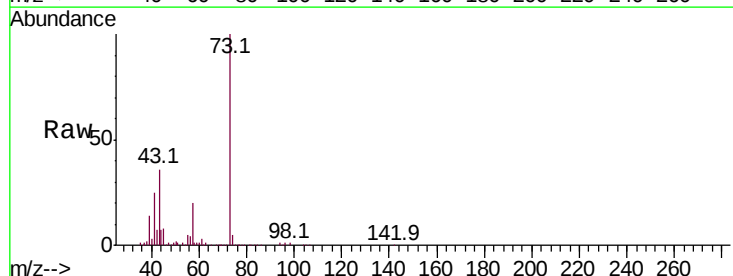
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

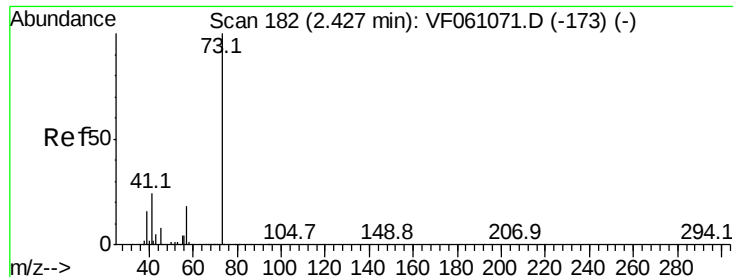
Tot Ion: 76 Resp: 188174
Ion Ratio Lower Upper
76 100
78 13.9 10.2 15.4



#18
Methyl Acetate
Concen: 58.104 ug/l
RT: 2.41 min Scan# 181
Delta R.T. 0.07 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Tgt Ion: 43 Resp: 57200
Ion Ratio Lower Upper
43 100
74 14.5 11.0 16.6



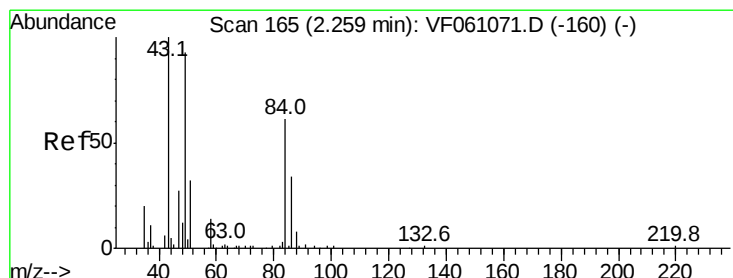
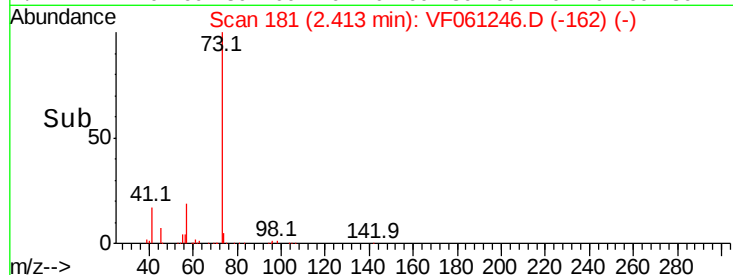
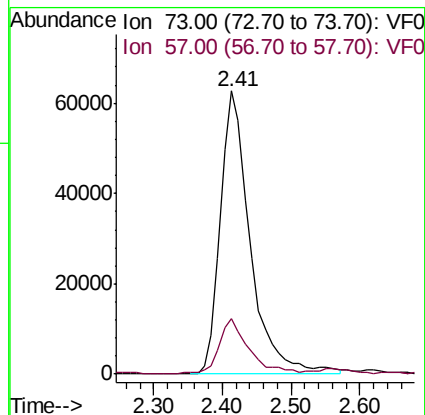
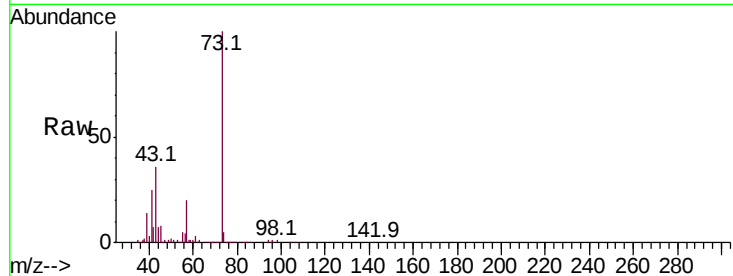


#19

Methyl tert-butyl Ether
 Concen: 51.928 ug/l
 RT: 2.41 min Scan# 181
 Delta R.T. -0.01 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

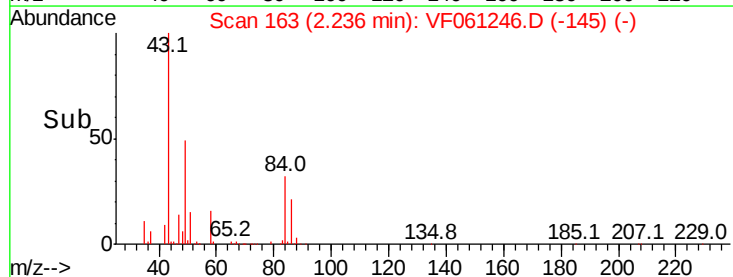
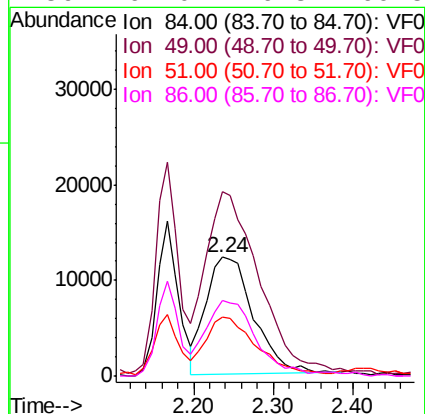
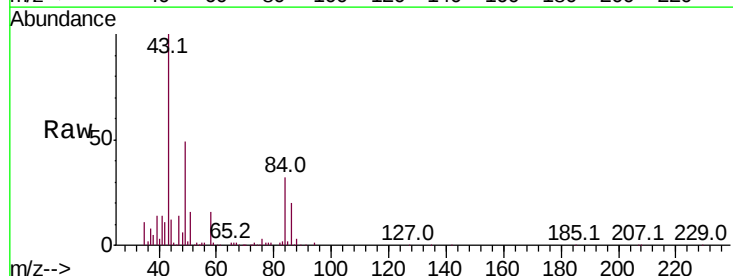
Tot Ion: 73 Resp: 188029
 Ion Ratio Lower Upper
 73 100
 57 19.6 14.5 21.7

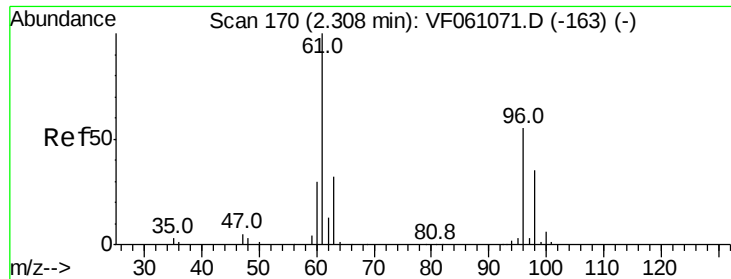


#20

Methylene Chloride
 Concen: 32.121 ug/l
 RT: 2.24 min Scan# 163
 Delta R.T. -0.02 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

Tgt Ion: 84 Resp: 51283
 Ion Ratio Lower Upper
 84 100
 49 154.9 129.4 194.2
 51 49.6 44.0 66.0
 86 64.0 46.3 69.5





#21

trans-1,2-Dichloroethene

Concen: 52.647 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

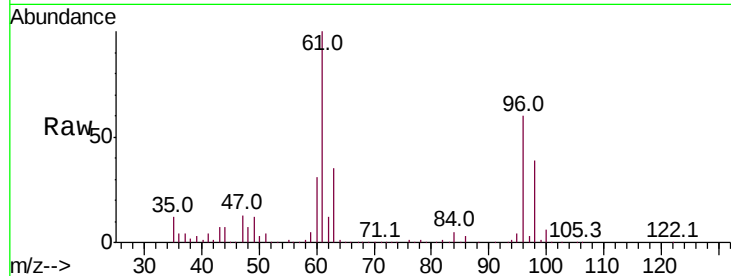
Tot Ion: 96 Resp: 91857

Ion Ratio Lower Upper

96 100

61 166.5 146.0 219.0

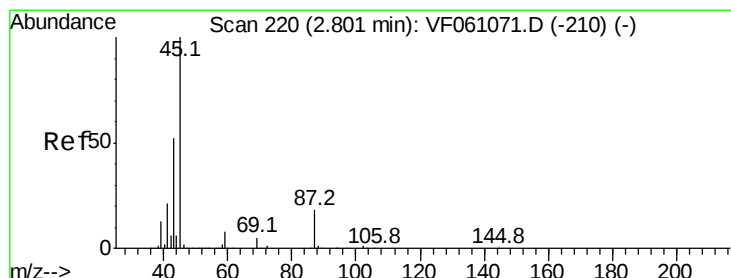
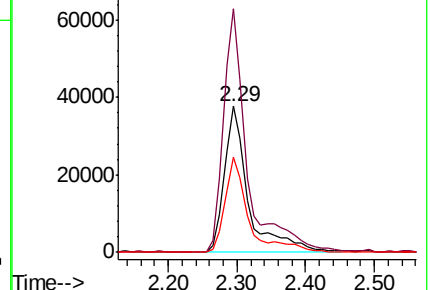
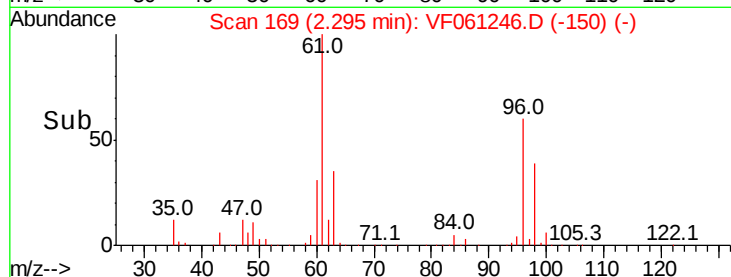
98 65.2 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 55.111 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Tgt Ion: 45 Resp: 311643

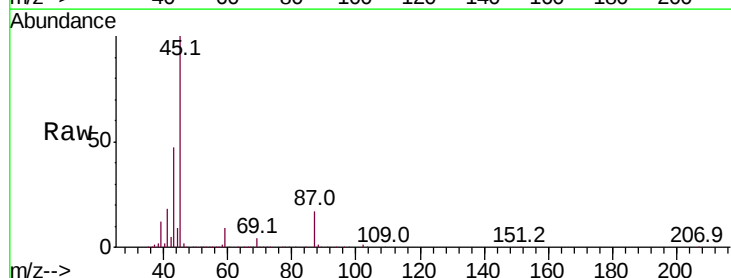
Ion Ratio Lower Upper

45 100

43 47.3 42.2 63.2

87 17.0 14.6 22.0

59 9.0 7.0 10.4

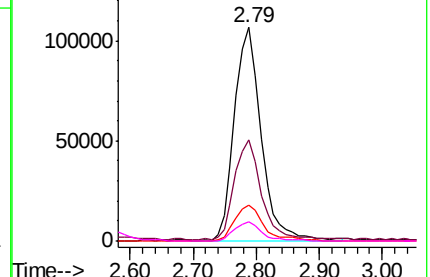
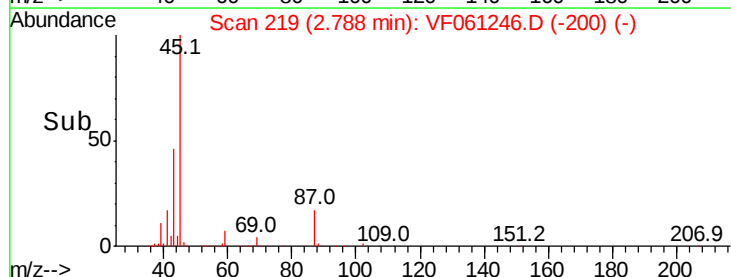


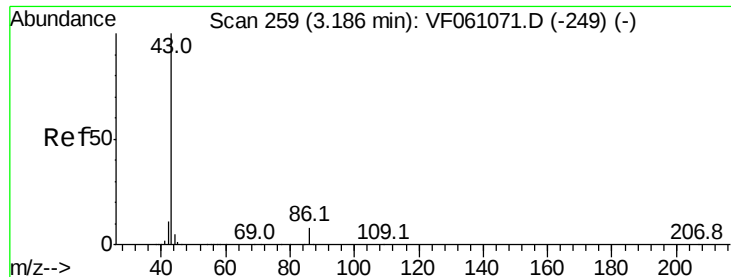
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 259.981 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

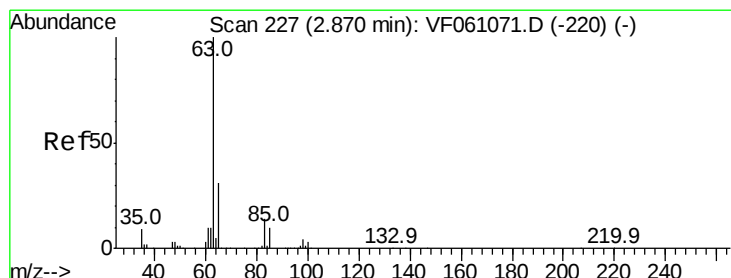
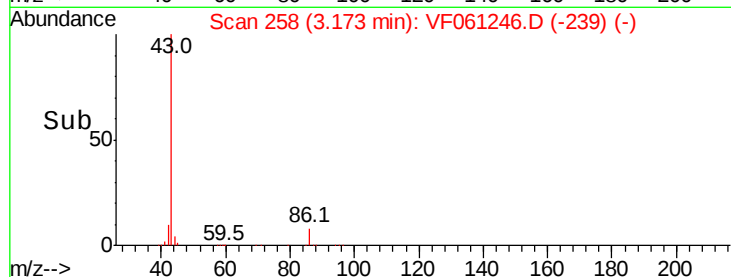
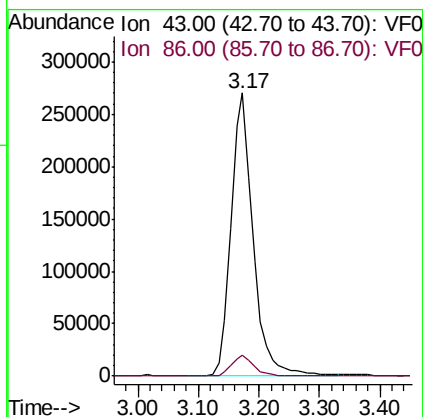
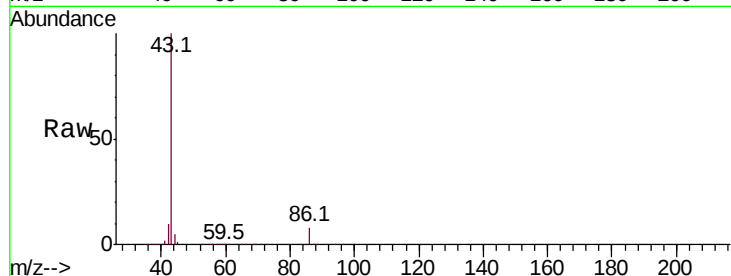
VSTDCCC050

Tot Ion: 43 Resp: 678220

Ion Ratio Lower Upper

43 100

86 7.5 6.3 9.5



#24

1,1-Dichloroethane

Concen: 56.058 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

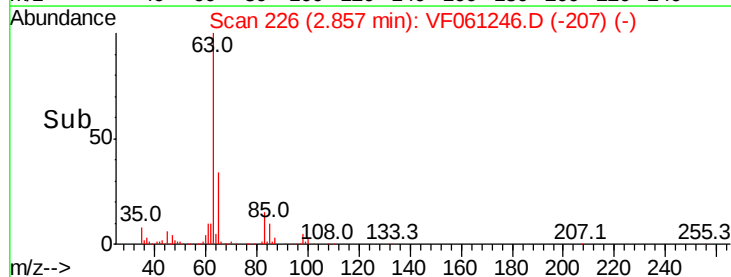
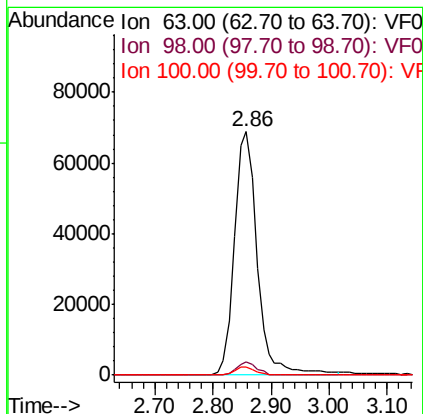
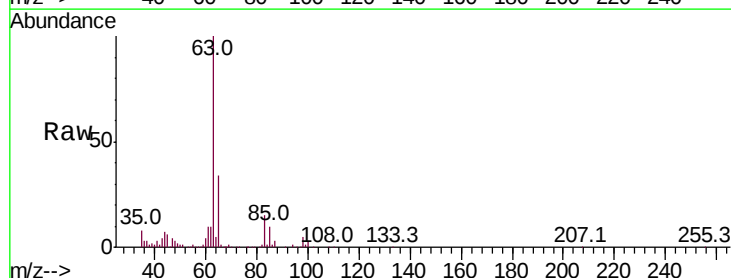
Tgt Ion: 63 Resp: 187821

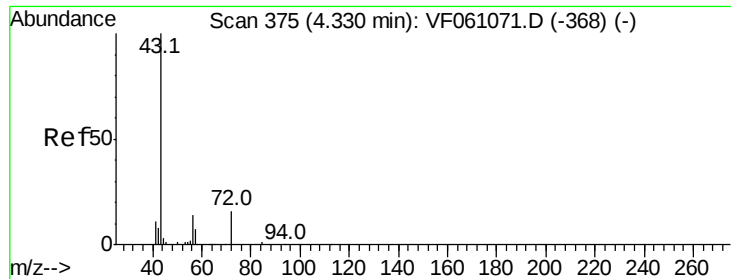
Ion Ratio Lower Upper

63 100

98 5.2 2.1 6.5

100 3.4 1.7 5.1





#25

2-Butanone

Concen: 266.803 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

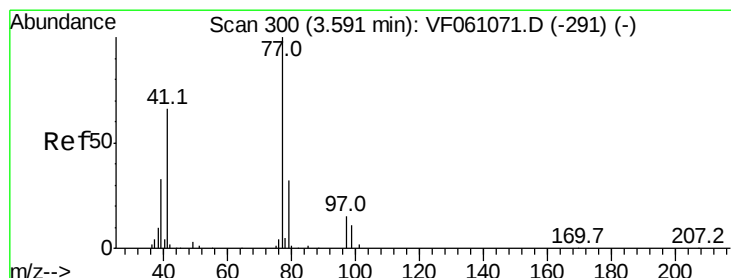
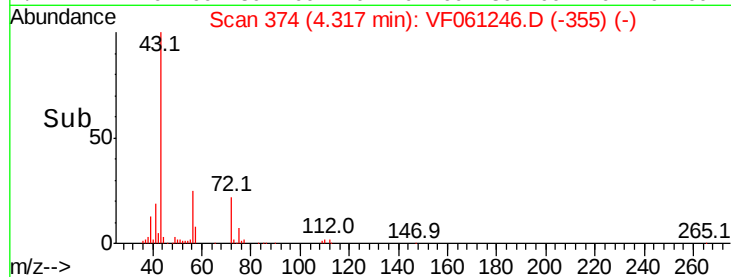
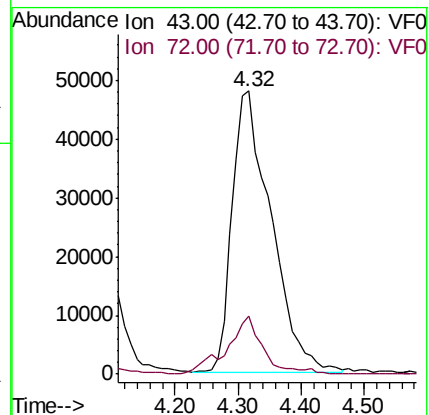
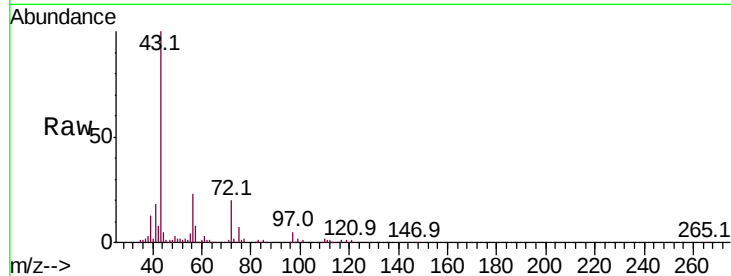
VSTDCCC050

Tot Ion: 43 Resp: 205893

Ion Ratio Lower Upper

43 100

72 20.3 15.6 23.4



#26

2,2-Dichloropropane

Concen: 56.954 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.01 min

Lab File: VF061246.D

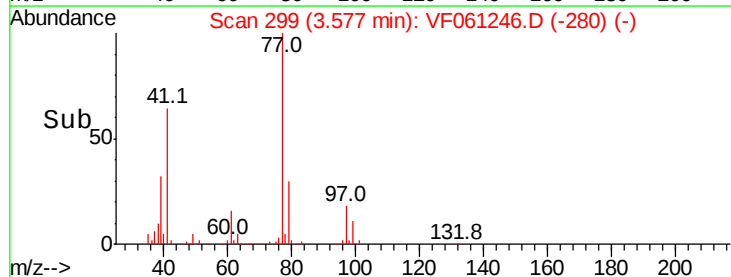
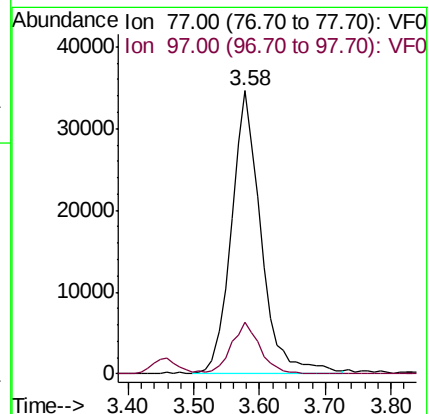
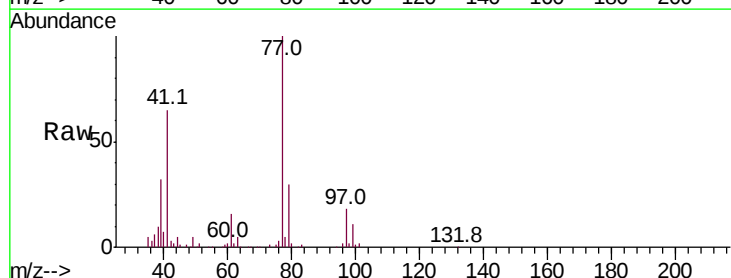
Acq: 2 Jan 2019 11:03

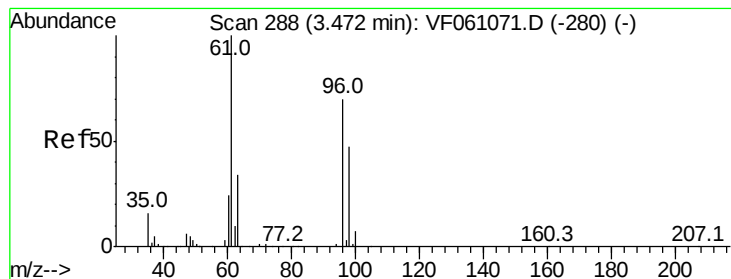
Tgt Ion: 77 Resp: 109509

Ion Ratio Lower Upper

77 100

97 18.3 8.2 24.4





#27

cis-1,2-Dichloroethene

Concen: 51.567 ug/l

RT: 3.46 min Scan# 287

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

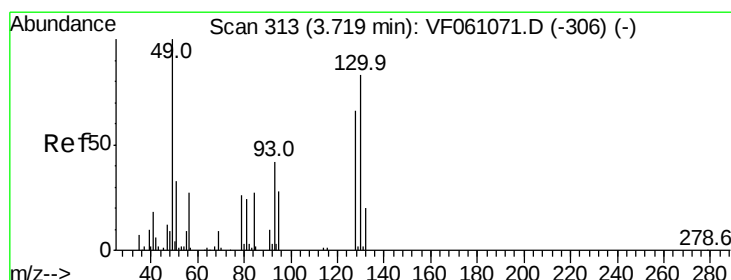
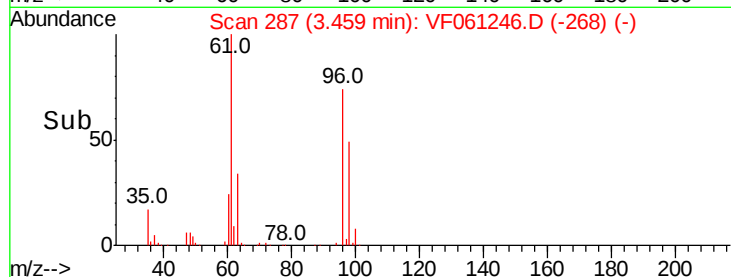
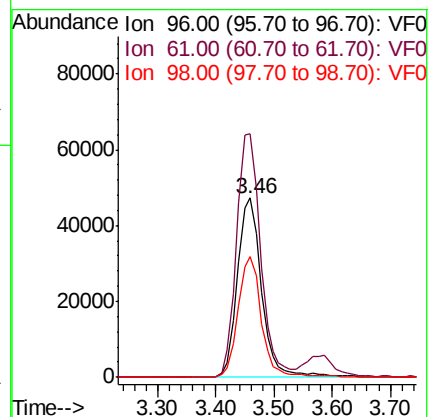
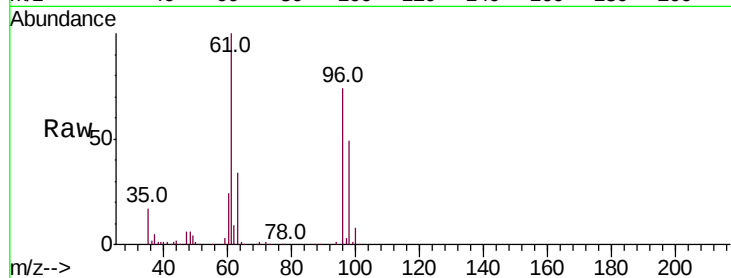
Tot Ion: 96 Resp: 137742

Ion Ratio Lower Upper

96 100

61 135.6 0.0 287.8

98 67.0 0.0 134.2



#28

Bromochloromethane

Concen: 52.785 ug/l

RT: 3.70 min Scan# 311

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

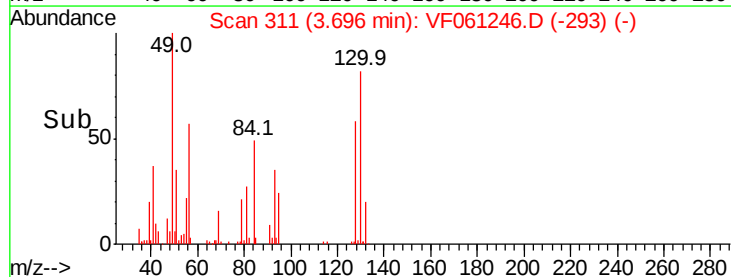
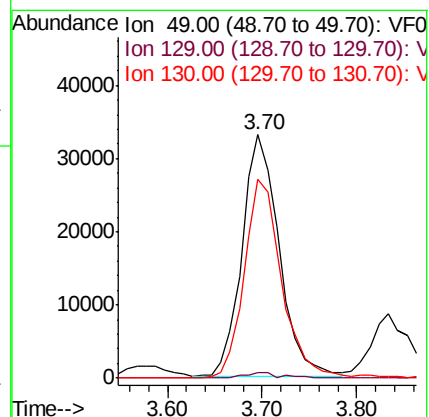
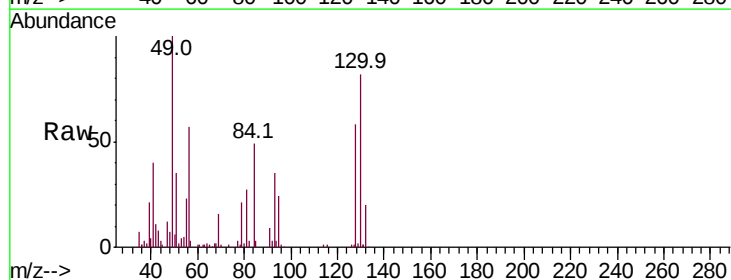
Tgt Ion: 49 Resp: 89737

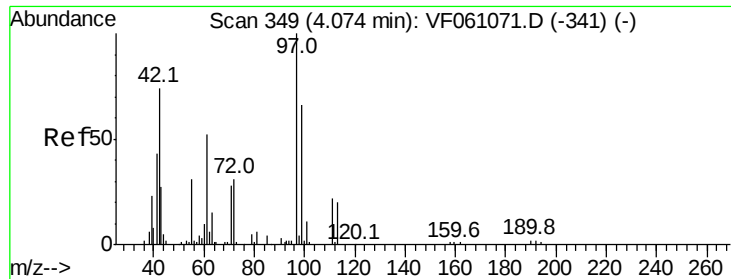
Ion Ratio Lower Upper

49 100

129 2.4 0.0 3.6

130 81.7 65.8 98.6

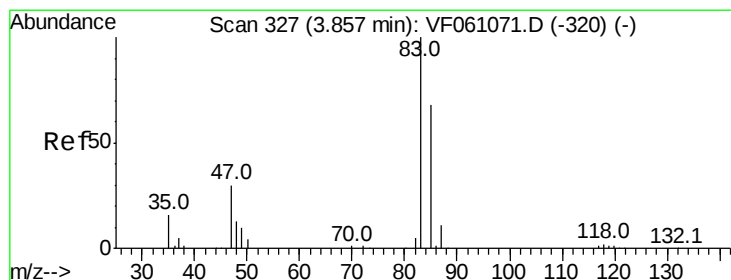
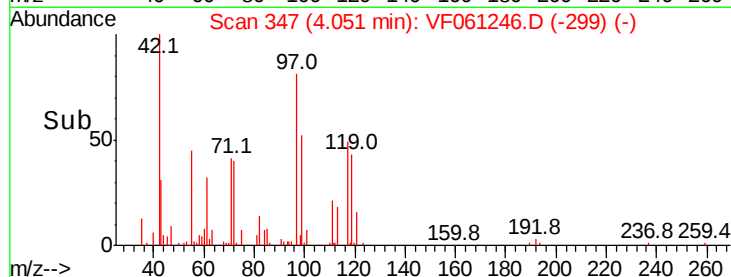
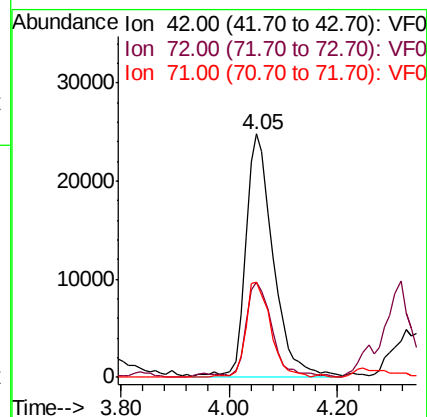
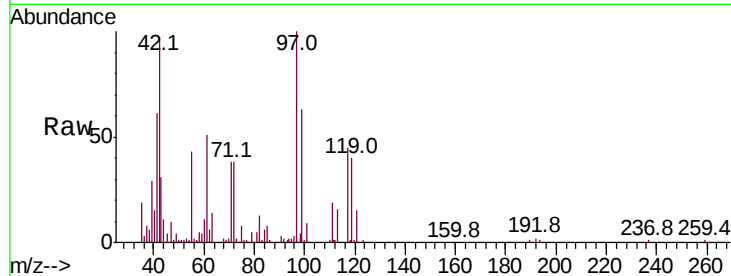




#29
Tetrahydrofuran
Concen: 280.791 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.02 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

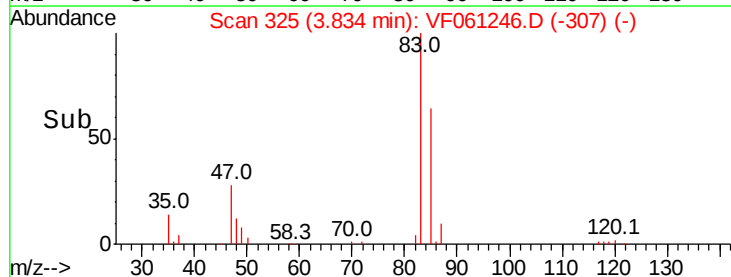
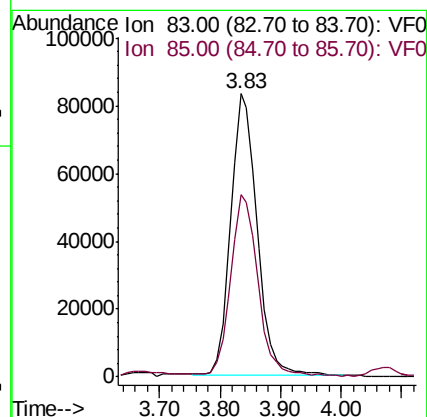
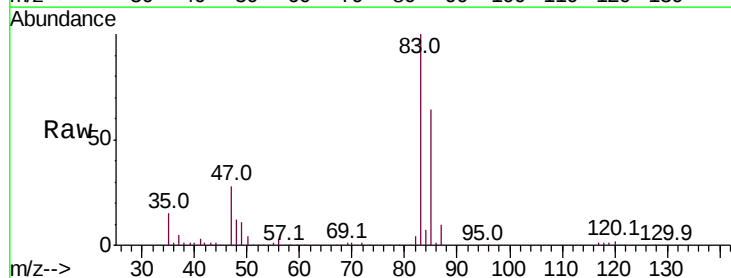
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

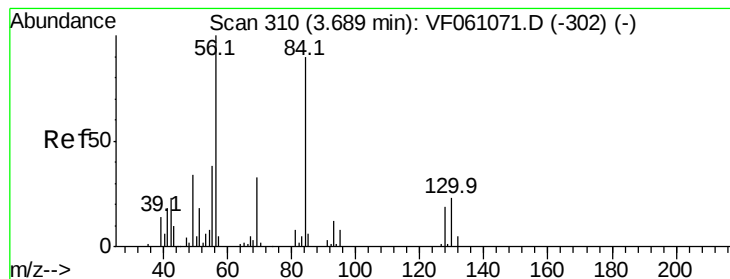
Tot Ion: 42 Resp: 88194
Ion Ratio Lower Upper
42 100
72 36.7 31.8 47.8
71 35.2 29.7 44.5



#30
Chloroform
Concen: 50.095 ug/l
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Tgt Ion: 83 Resp: 251669
Ion Ratio Lower Upper
83 100
85 64.5 54.5 81.7





#31

Cvclohexane

Concen: 34.088 ug/l

RT: 3.67 min Scan# 308

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

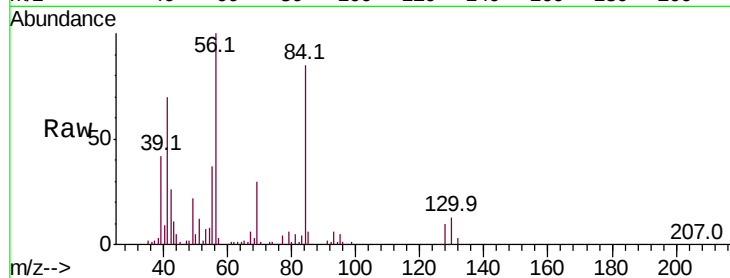
Tot Ion: 56 Resp: 118514

Ion Ratio Lower Upper

56 100

69 30.3 26.0 39.0

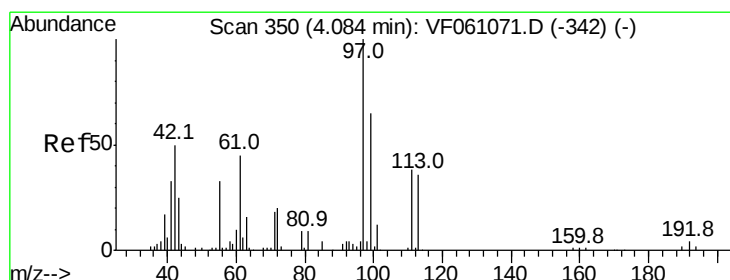
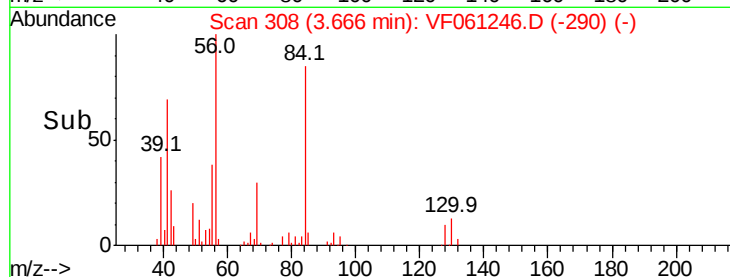
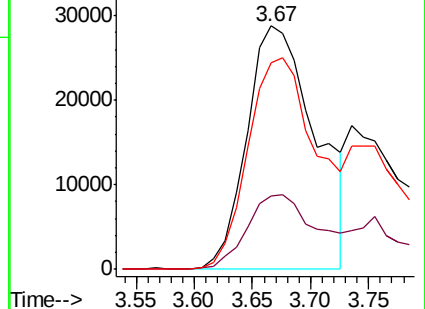
84 84.8 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 49.049 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

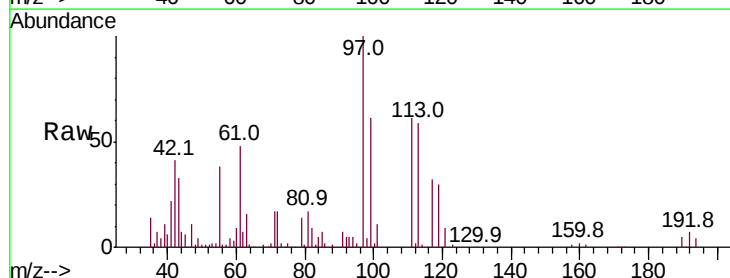
Tgt Ion: 97 Resp: 147696

Ion Ratio Lower Upper

97 100

99 61.3 51.6 77.4

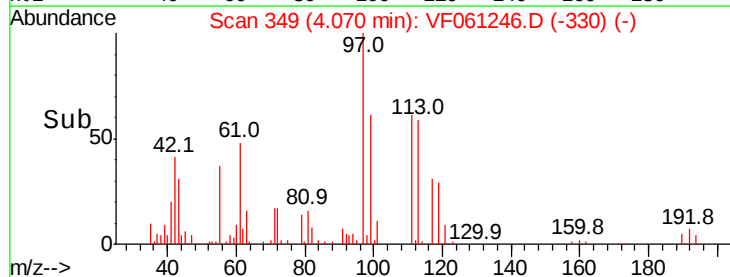
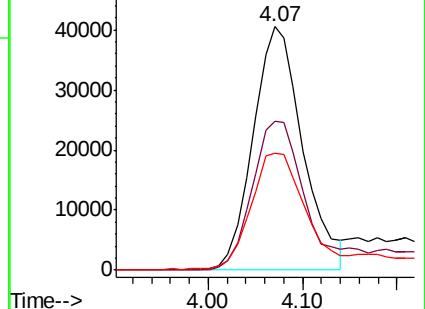
61 48.2 36.2 54.2

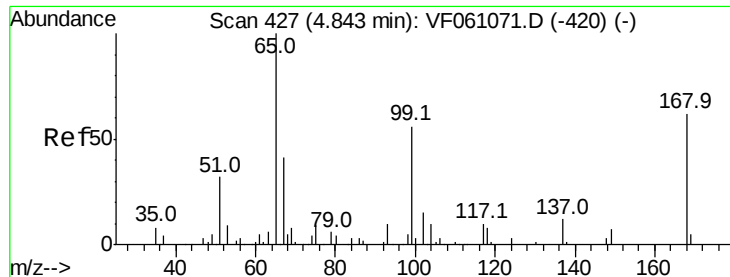


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 50.278 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

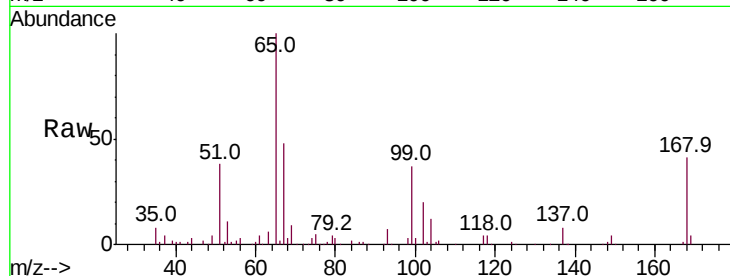
VSTDCCC050

Tot Ion: 65 Resp: 119671

Ion Ratio Lower Upper

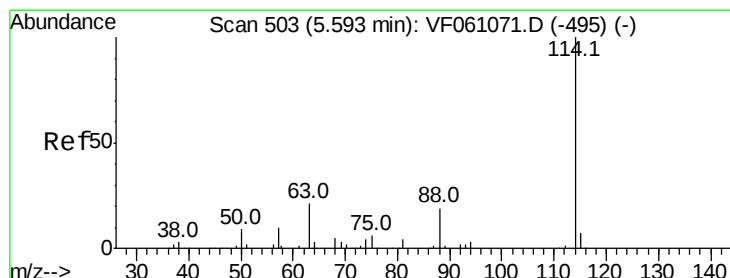
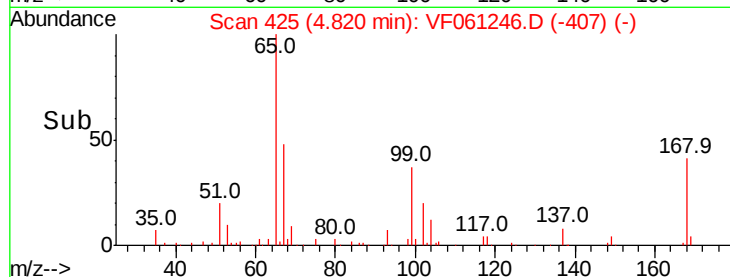
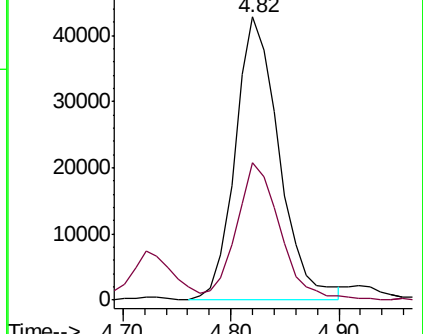
65 100

67 48.4 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

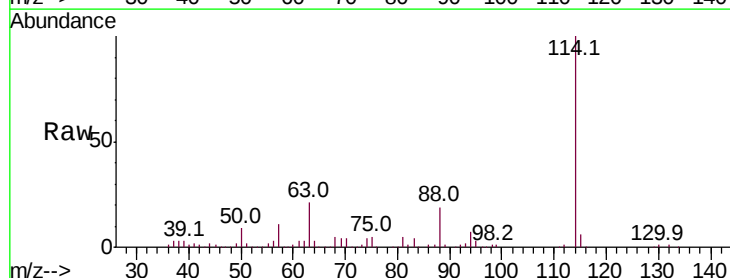
Tgt Ion: 114 Resp: 306636

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.6

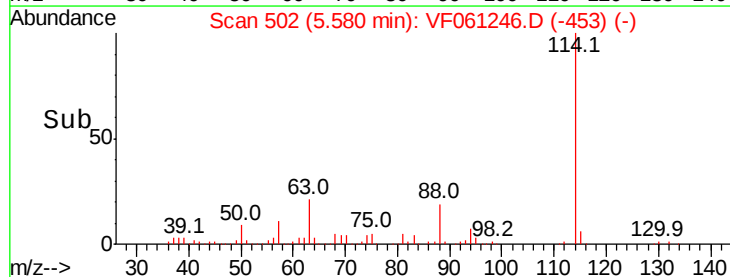
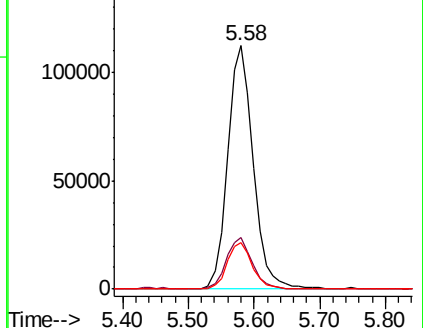
88 19.3 0.0 38.0

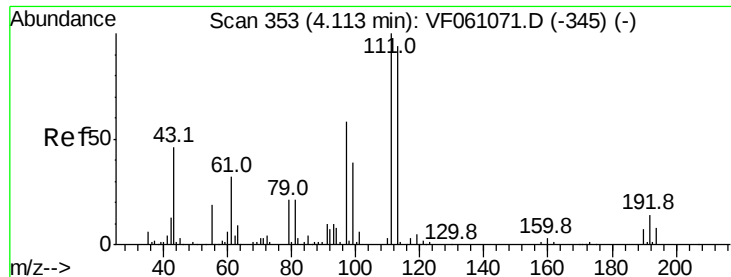


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 54.065 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

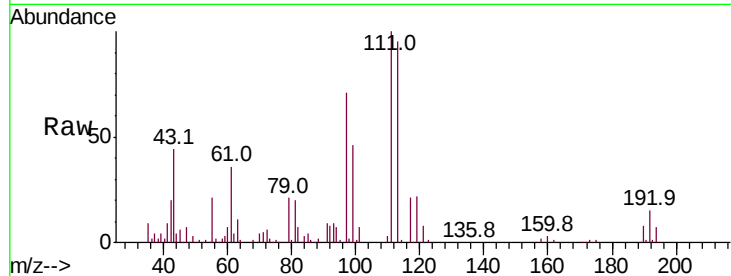
Tot Ion:113 Resp: 132802

Ion Ratio Lower Upper

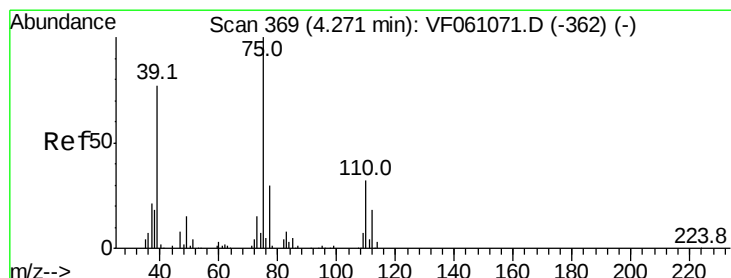
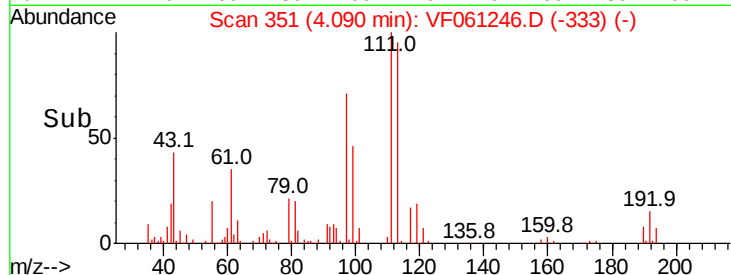
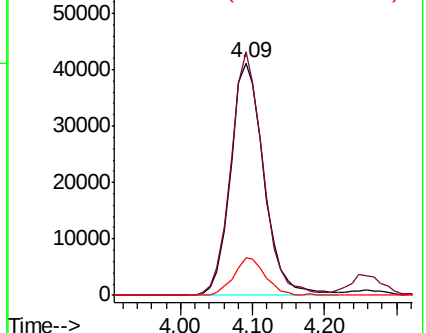
113 100

111 104.8 85.2 127.8

192 16.8 12.8 19.2



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



#36

1,1-Dichloropropene

Concen: 51.526 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

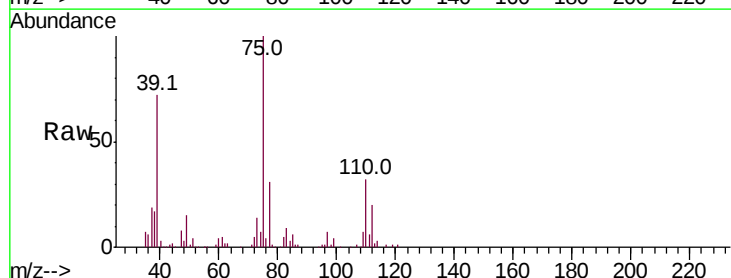
Tgt Ion: 75 Resp: 190714

Ion Ratio Lower Upper

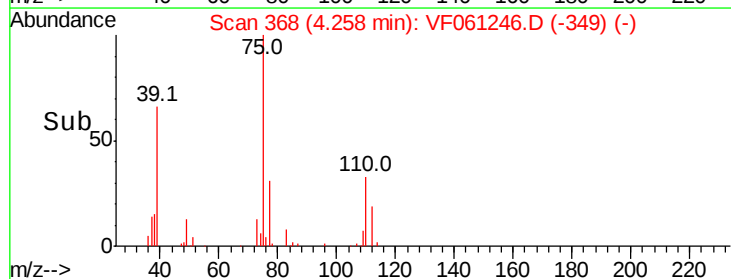
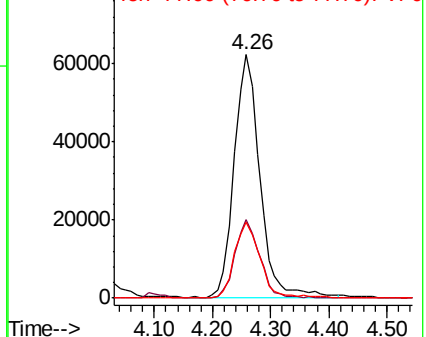
75 100

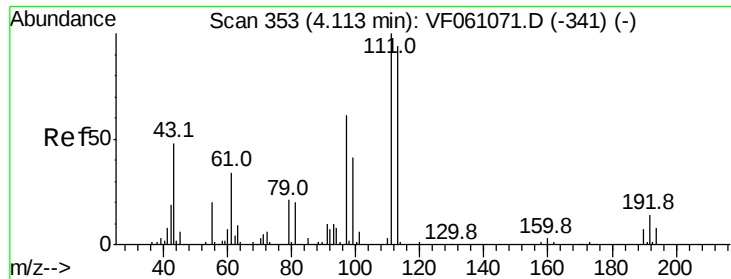
110 32.2 16.1 48.2

77 31.1 24.5 36.7



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





#37

Ethyl Acetate

Concen: 54.402 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

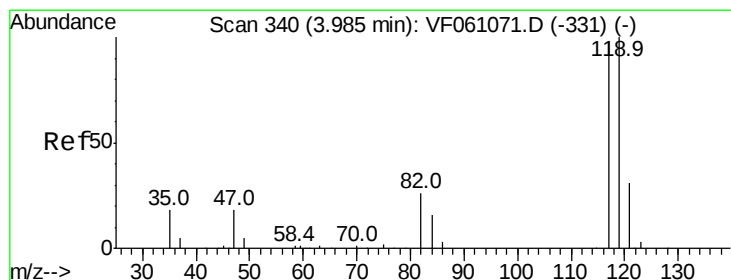
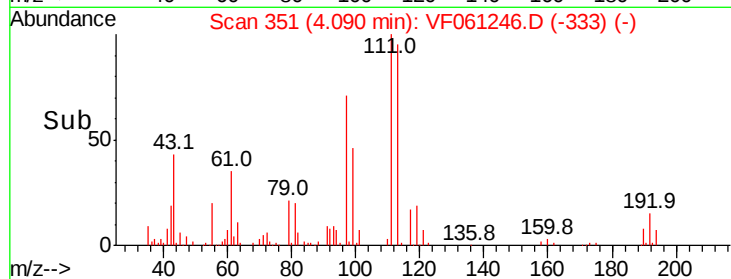
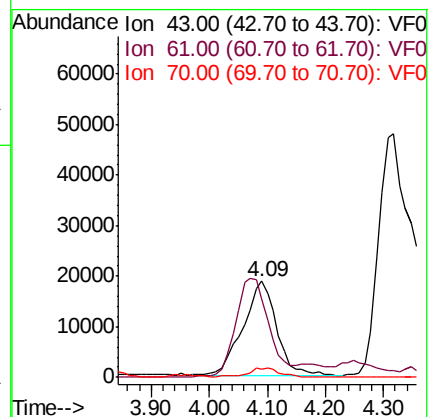
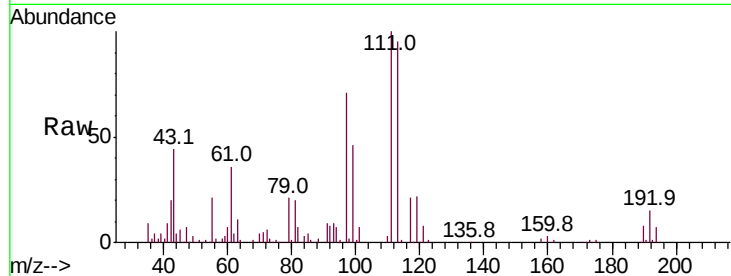
Tot Ion: 43 Resp: 77100

Ion Ratio Lower Upper

43 100

61 81.3 56.6 84.8

70 8.4 6.3 9.5



#38

Carbon Tetrachloride

Concen: 54.906 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

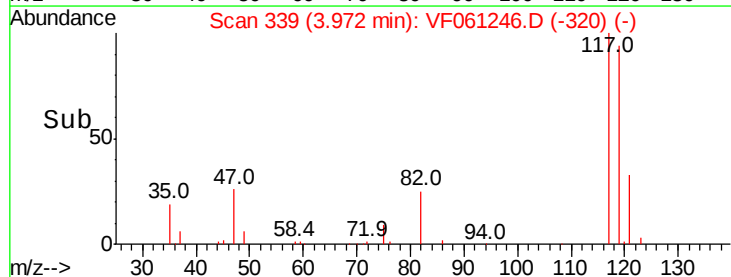
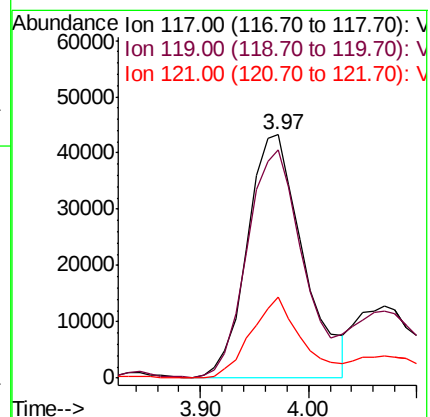
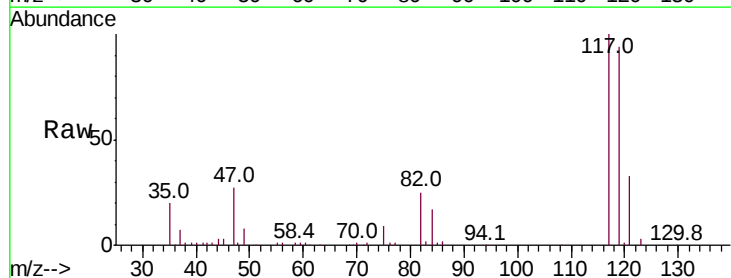
Tgt Ion: 117 Resp: 154763

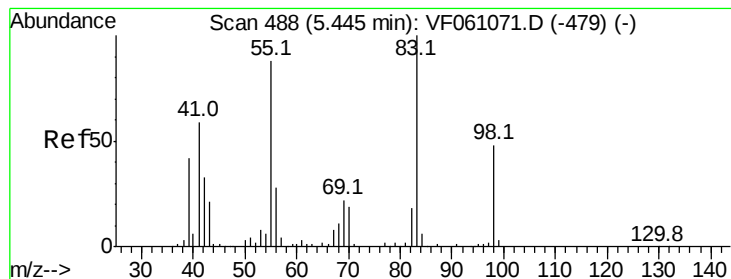
Ion Ratio Lower Upper

117 100

119 93.5 82.1 123.1

121 33.5 25.5 38.3





#39

Methvlcvclohexane

Concen: 61.474 ug/l

RT: 5.43 min Scan# 487

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

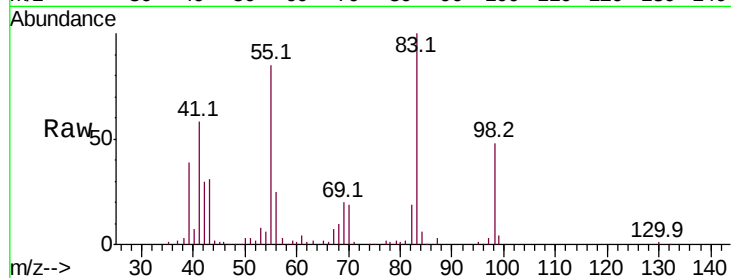
Tot Ion: 83 Resp: 204127

Ion Ratio Lower Upper

83 100

55 85.4 70.6 105.8

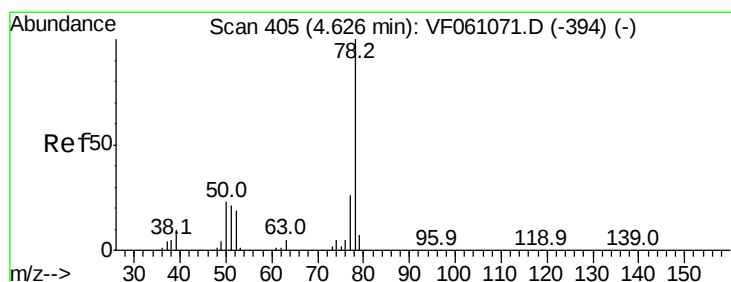
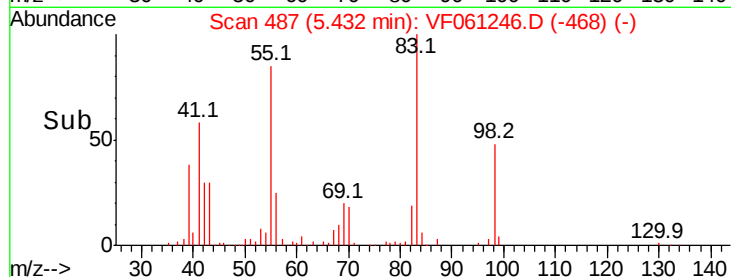
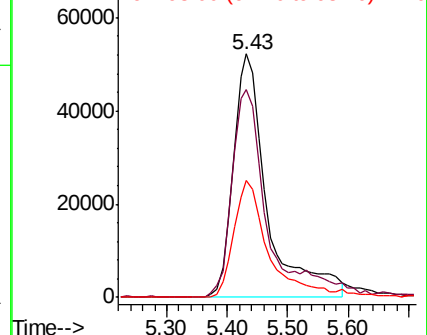
98 47.8 38.5 57.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#40

Benzene

Concen: 50.656 ug/l

RT: 4.61 min Scan# 404

Delta R.T. -0.01 min

Lab File: VF061246.D

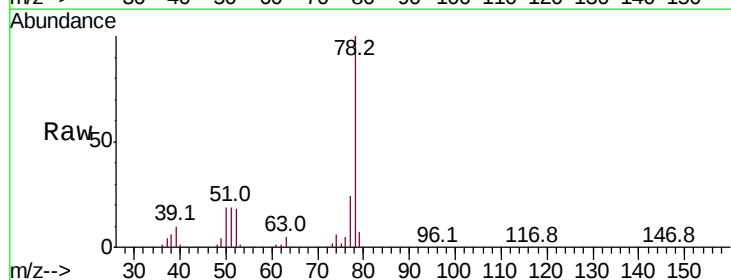
Acq: 2 Jan 2019 11:03

Tgt Ion: 78 Resp: 403205

Ion Ratio Lower Upper

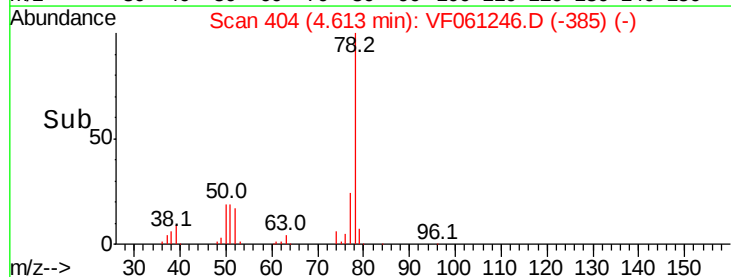
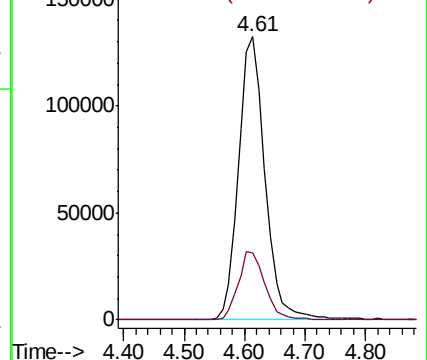
78 100

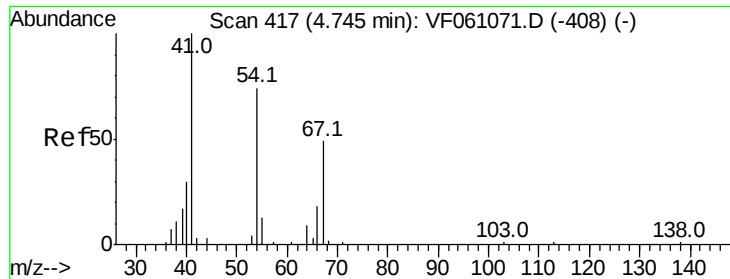
77 23.9 20.7 31.1



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 50.184 ug/l

RT: 4.72 min Scan# 415

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 39228

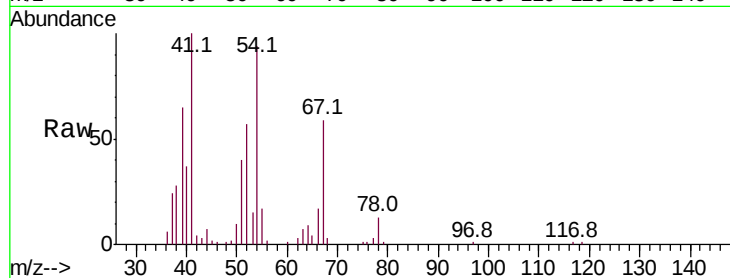
Ion Ratio Lower Upper

41 100

39 65.4 45.7 68.5

67 59.4 38.9 58.3#

52 56.6 35.2 52.8#

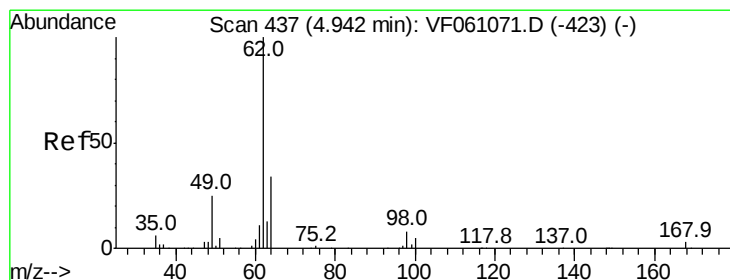
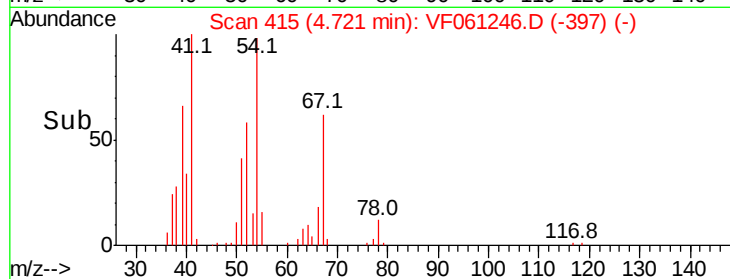
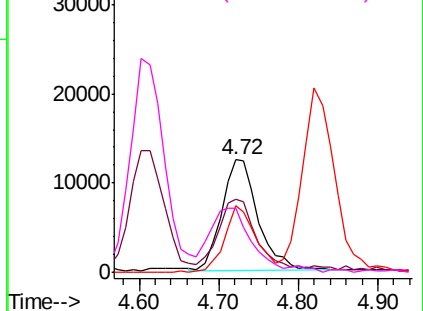


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 49.609 ug/l

RT: 4.92 min Scan# 435

Delta R.T. -0.02 min

Lab File: VF061246.D

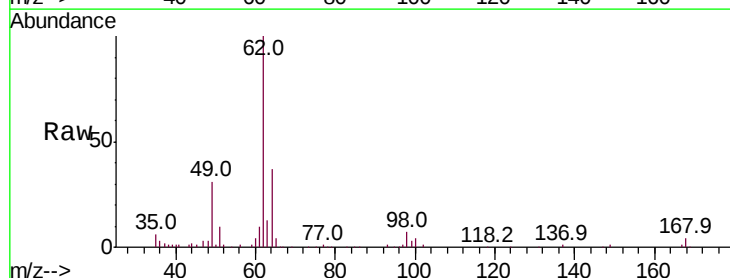
Acq: 2 Jan 2019 11:03

Tgt Ion: 62 Resp: 150005

Ion Ratio Lower Upper

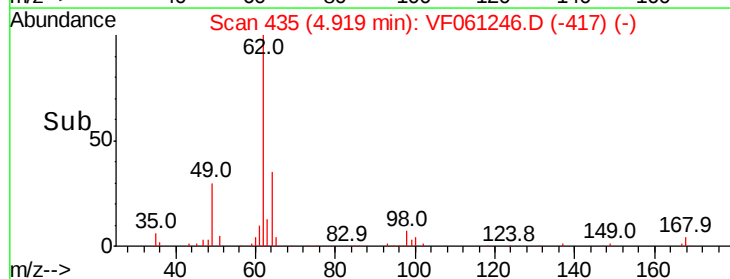
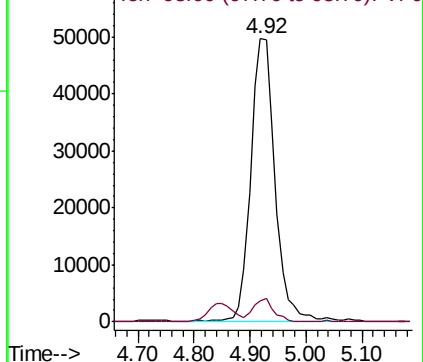
62 100

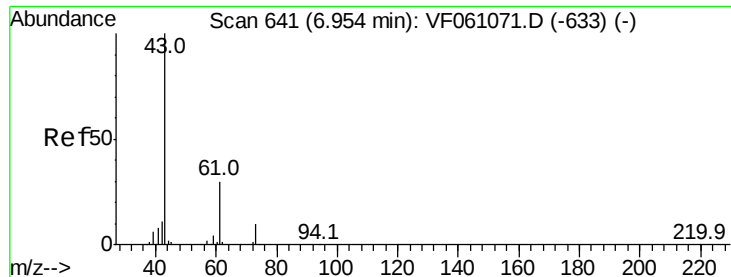
98 7.4 0.0 16.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 57.194 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

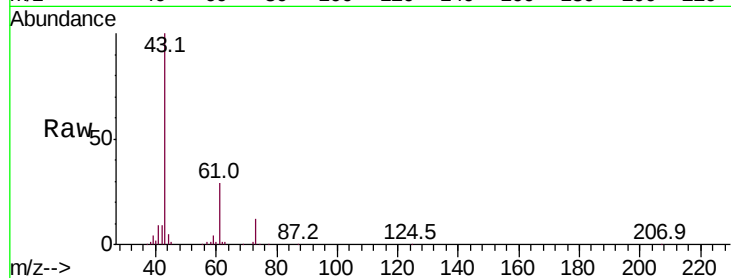
Tot Ion: 43 Resp: 102216

Ion Ratio Lower Upper

43 100

61 29.3 23.8 35.8

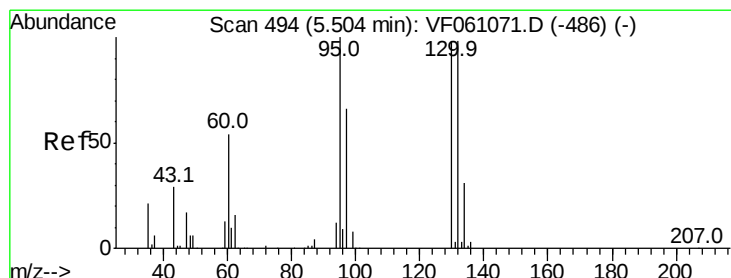
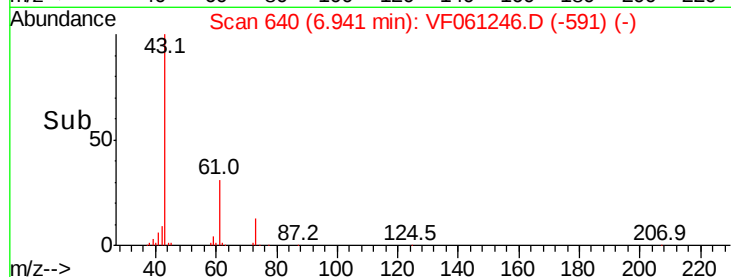
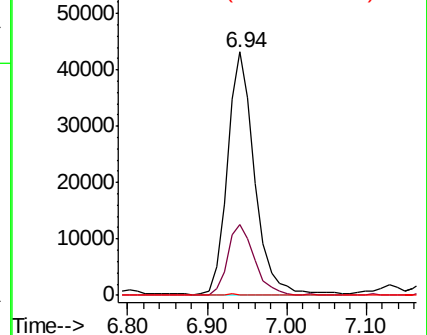
87 0.4 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 54.734 ug/l

RT: 5.48 min Scan# 492

Delta R.T. -0.02 min

Lab File: VF061246.D

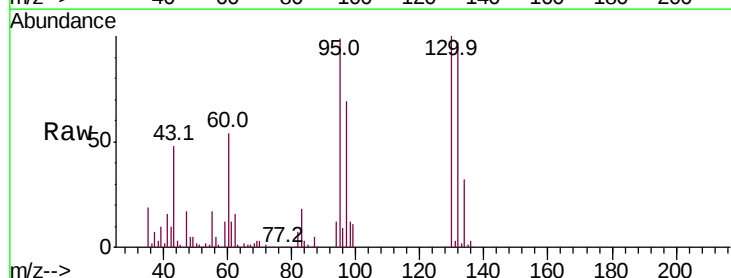
Acq: 2 Jan 2019 11:03

Tgt Ion:130 Resp: 137354

Ion Ratio Lower Upper

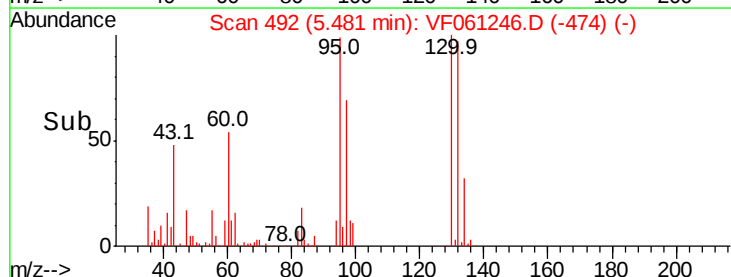
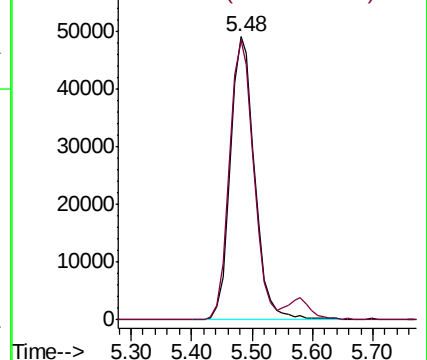
130 100

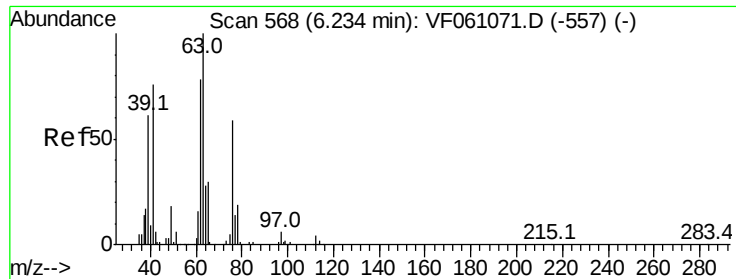
95 98.9 0.0 205.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 52.861 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

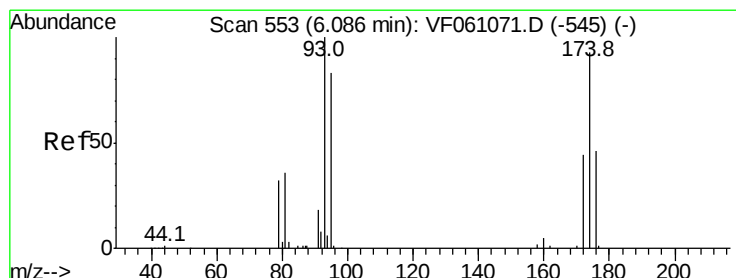
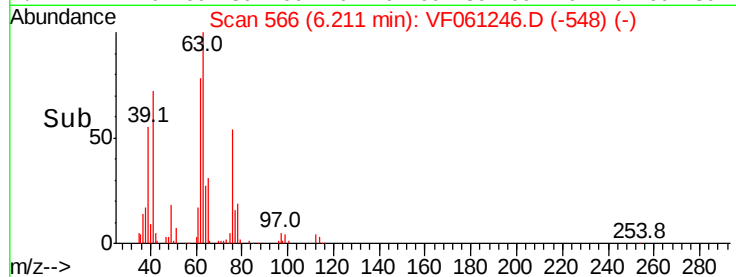
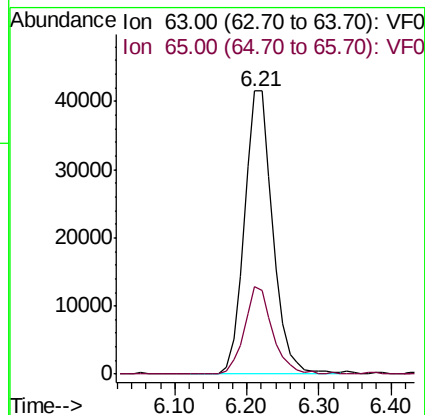
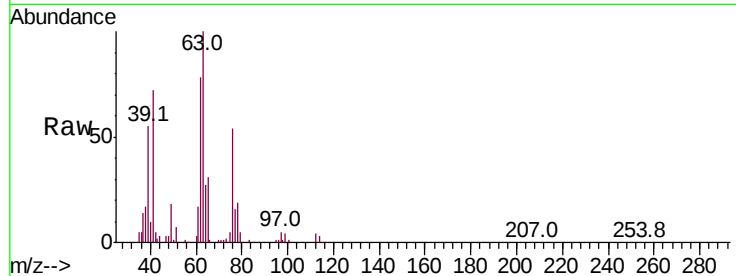
VSTDCCC050

Tot Ion: 63 Resp: 114473

Ion Ratio Lower Upper

63 100

65 31.1 24.4 36.6



#46

Dibromomethane

Concen: 54.079 ug/l

RT: 6.06 min Scan# 551

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

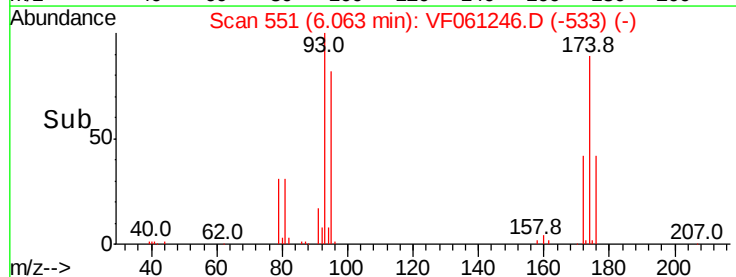
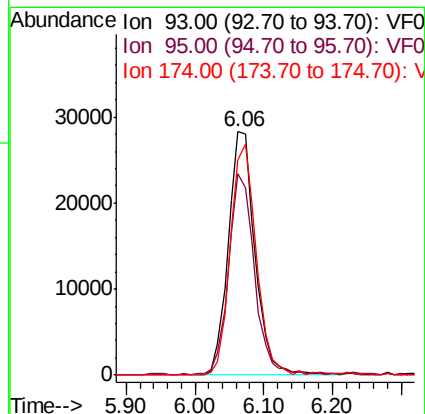
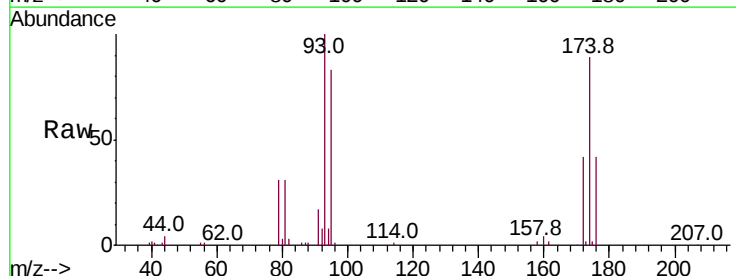
Tgt Ion: 93 Resp: 75957

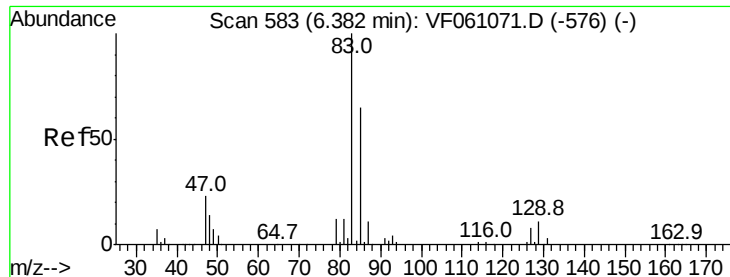
Ion Ratio Lower Upper

93 100

95 82.6 66.9 100.3

174 88.7 74.1 111.1





#47

Bromodichloromethane

Concen: 51.051 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

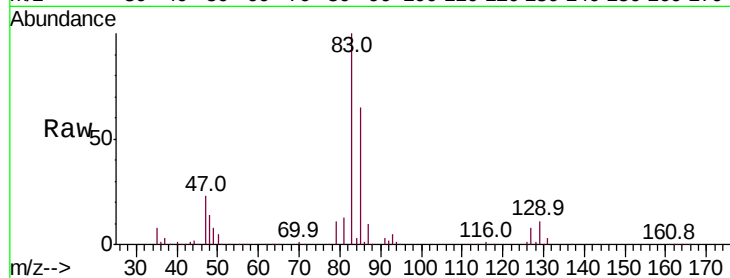
Tot Ion: 83 Resp: 186304

Ion Ratio Lower Upper

83 100

85 65.3 52.2 78.4

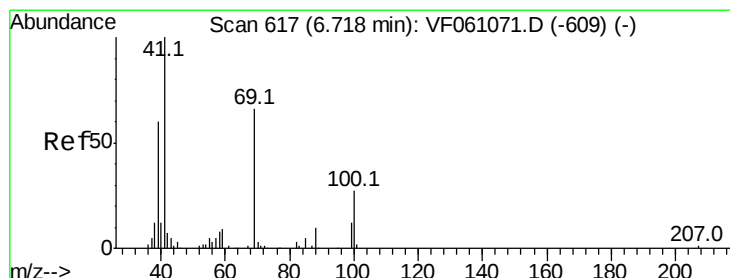
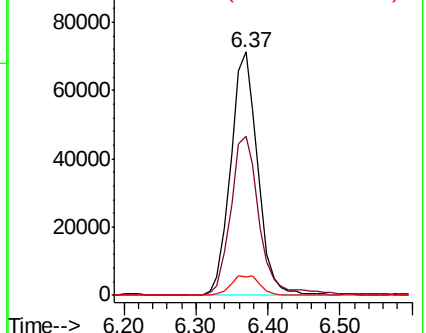
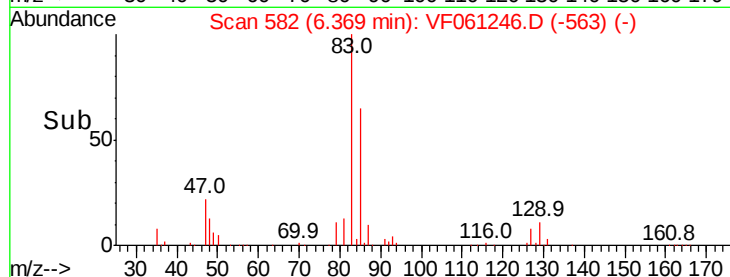
127 7.8 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 49.796 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

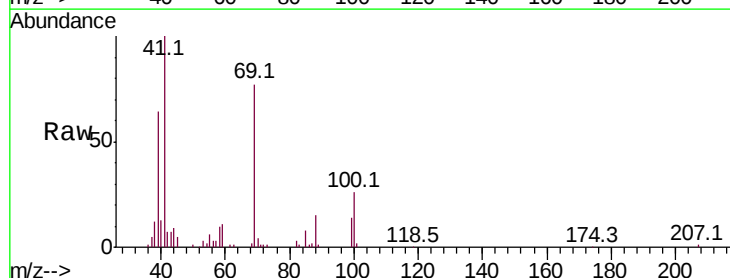
Tgt Ion: 41 Resp: 62127

Ion Ratio Lower Upper

41 100

69 77.4 52.7 79.1

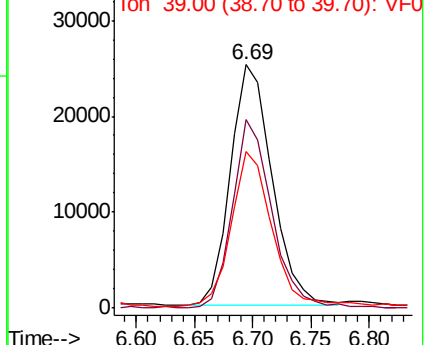
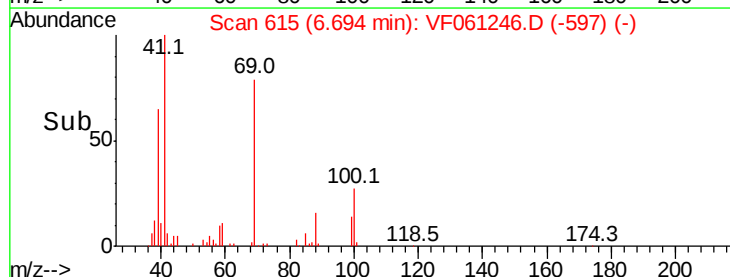
39 64.5 47.8 71.6

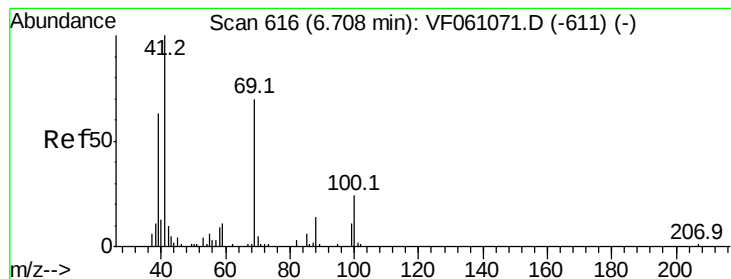


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 1289.207 ug/l

RT: 6.68 min Scan# 614

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

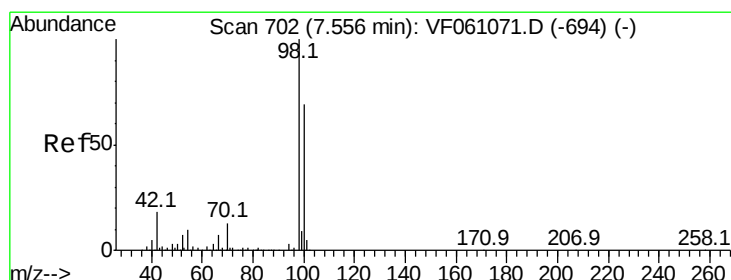
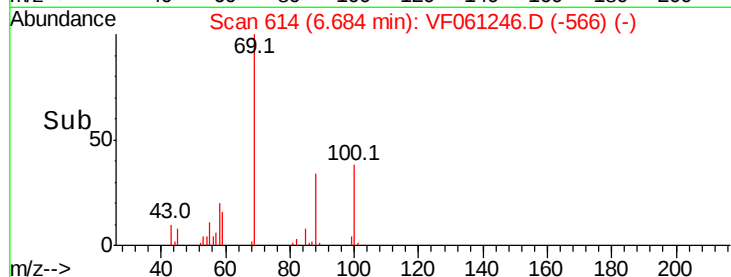
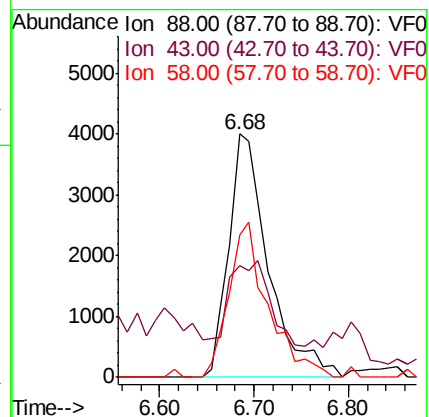
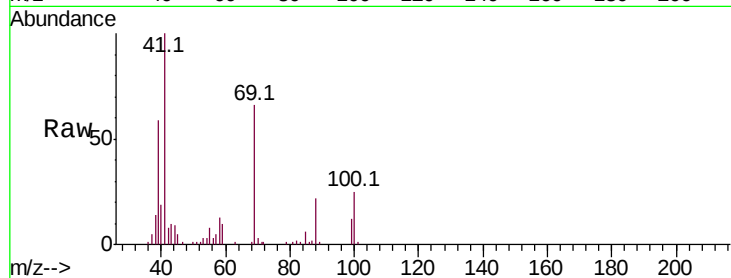
Tot Ion: 88 Resp: 11671

Ion Ratio Lower Upper

88 100

43 46.0 33.3 49.9

58 58.5 53.2 79.8



#50

Toluene-d8

Concen: 51.988 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.02 min

Lab File: VF061246.D

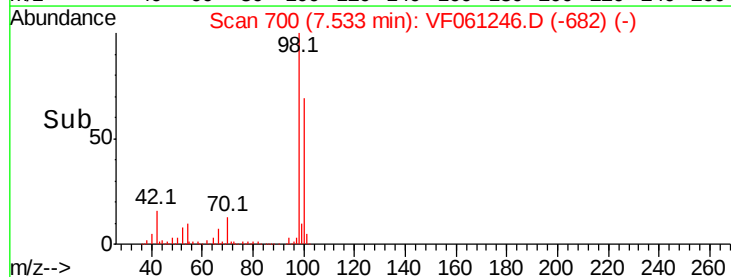
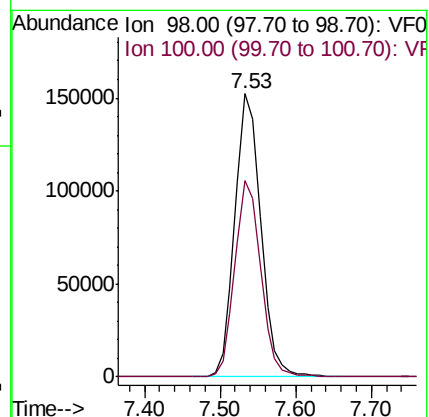
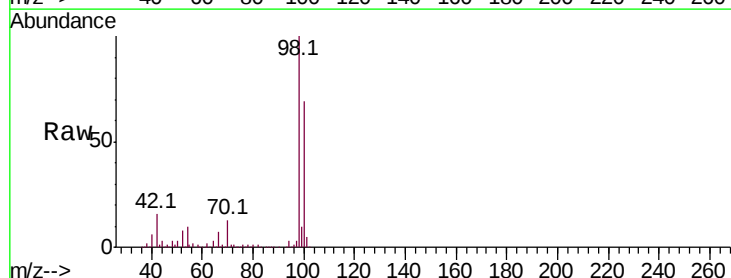
Acq: 2 Jan 2019 11:03

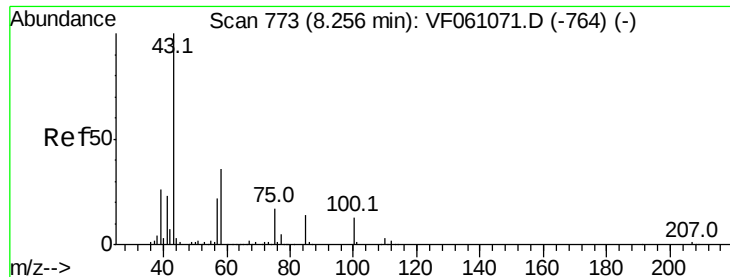
Tgt Ion: 98 Resp: 361882

Ion Ratio Lower Upper

98 100

100 69.3 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 285.663 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

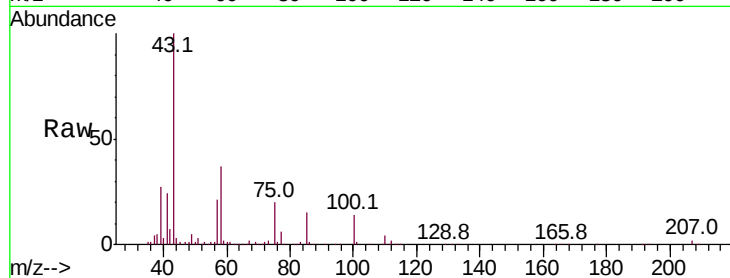
VSTDCCC050

Tot Ion: 43 Resp: 350133

Ion Ratio Lower Upper

43 100

58 37.1 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

150000

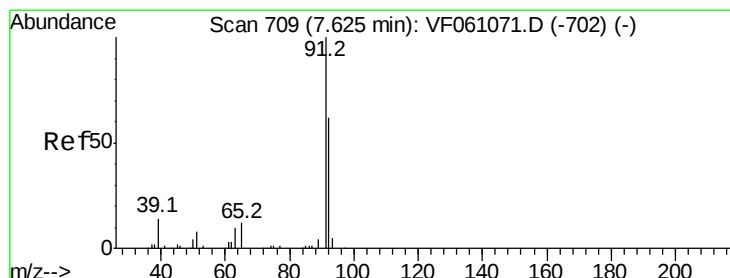
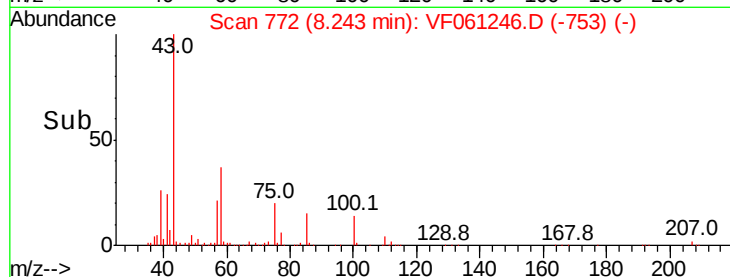
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 51.908 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF061246.D

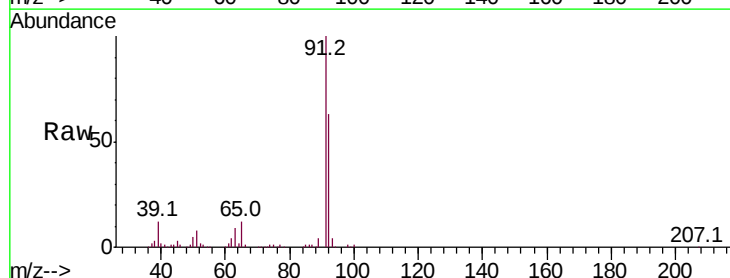
Acq: 2 Jan 2019 11:03

Tgt Ion: 92 Resp: 273499

Ion Ratio Lower Upper

92 100

91 158.5 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

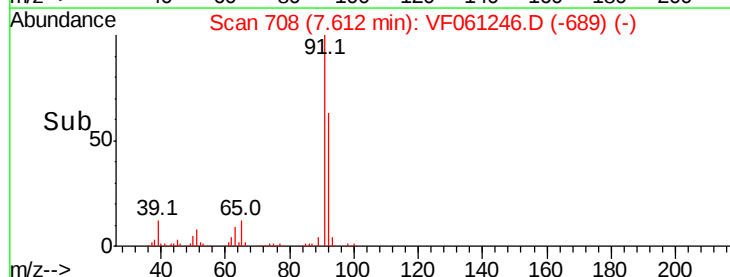
100000

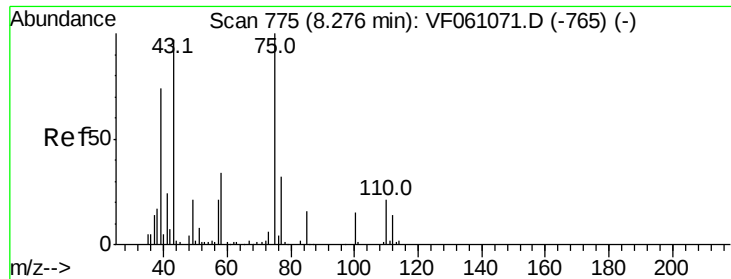
50000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 53.083 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

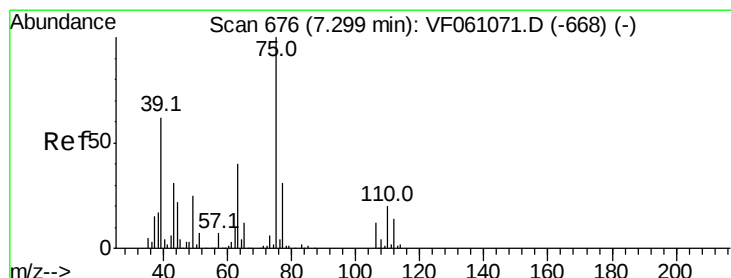
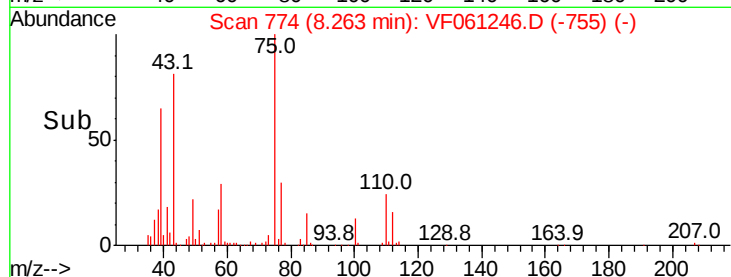
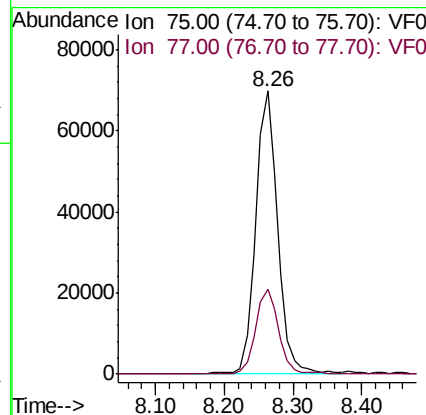
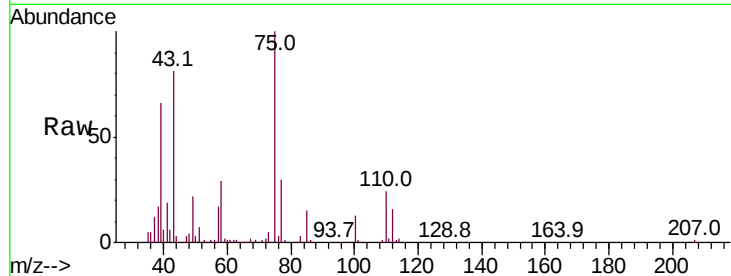
VSTDCCC050

Tot Ion: 75 Resp: 156277

Ion Ratio Lower Upper

75 100

77 30.0 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 54.871 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

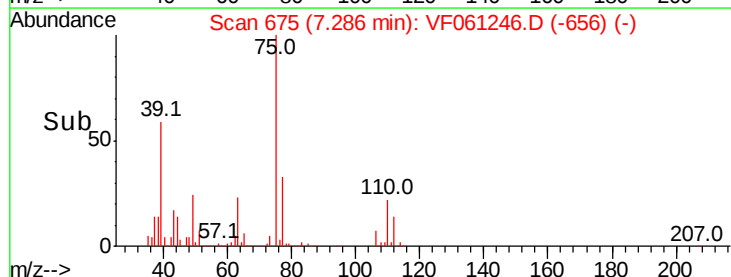
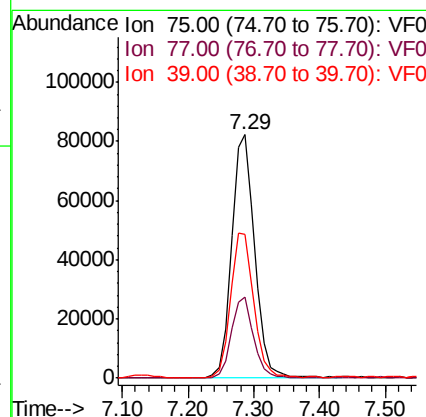
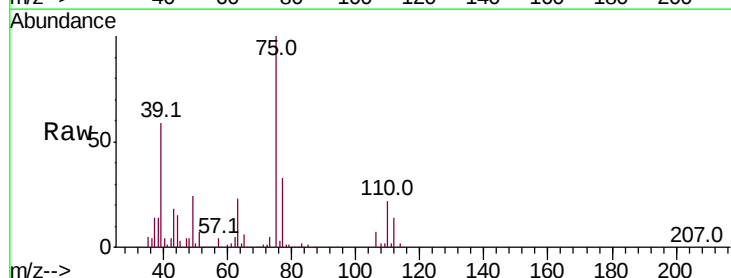
Tgt Ion: 75 Resp: 202746

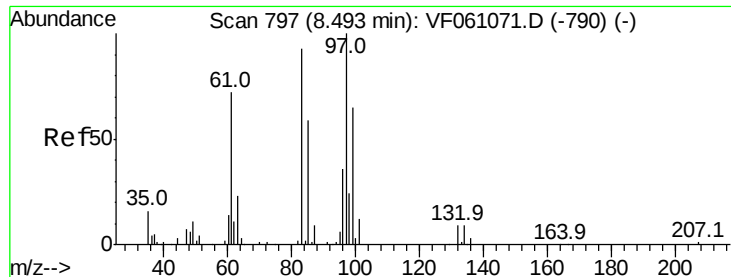
Ion Ratio Lower Upper

75 100

77 33.3 25.0 37.4

39 59.2 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 52.784 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 83374

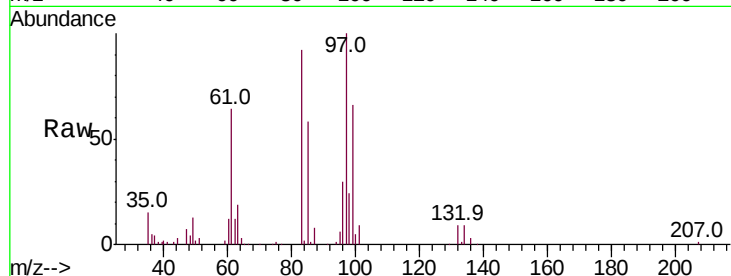
Ion Ratio Lower Upper

97 100

83 92.3 75.0 112.4

85 57.9 47.5 71.3

99 66.2 51.9 77.9

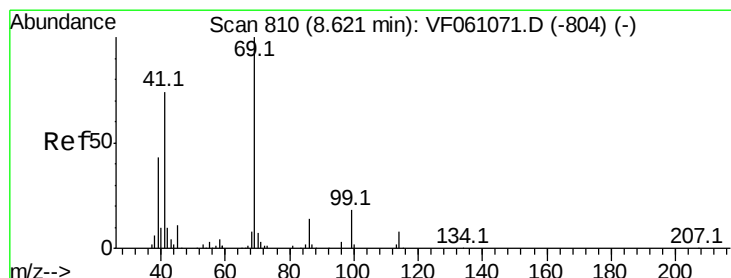
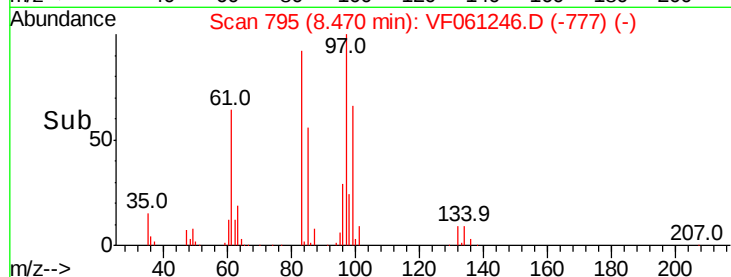
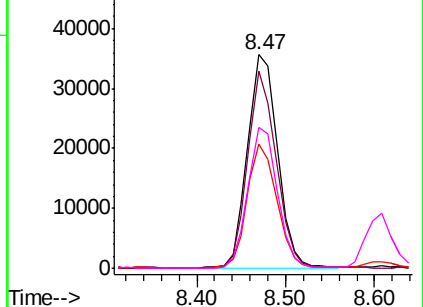


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 54.132 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

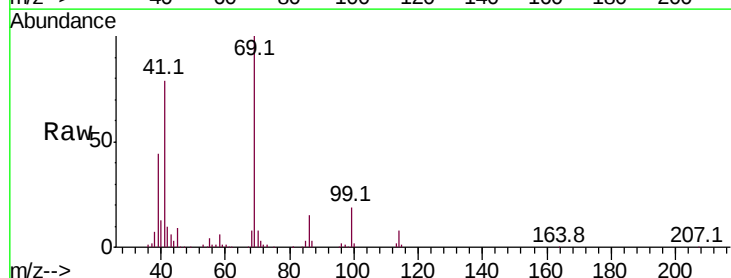
Tgt Ion: 69 Resp: 92522

Ion Ratio Lower Upper

69 100

41 79.1 59.7 89.5

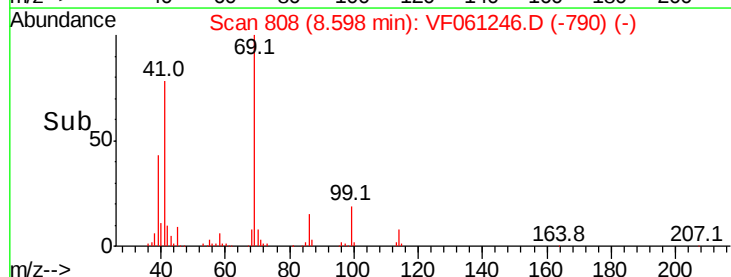
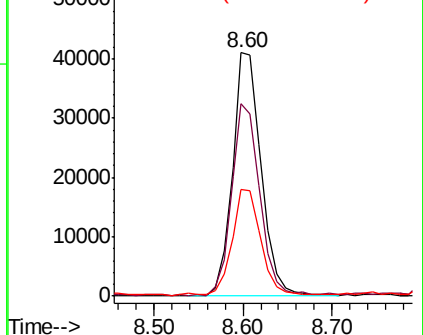
39 43.7 35.0 52.6

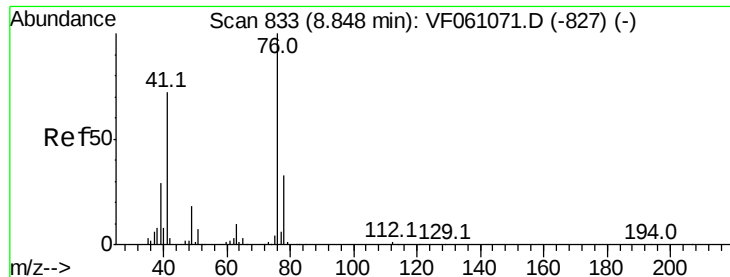


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 51.174 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

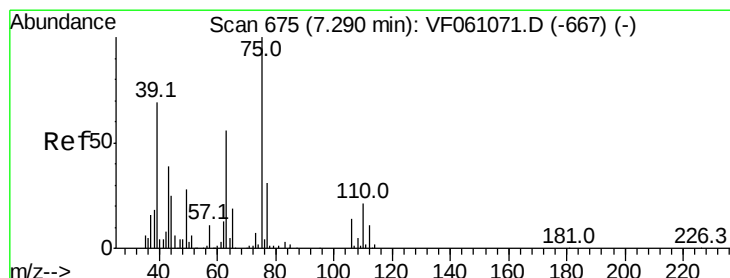
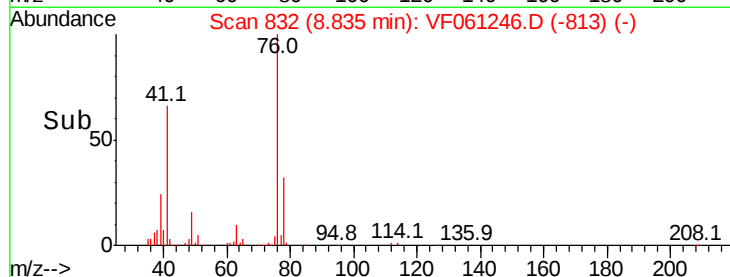
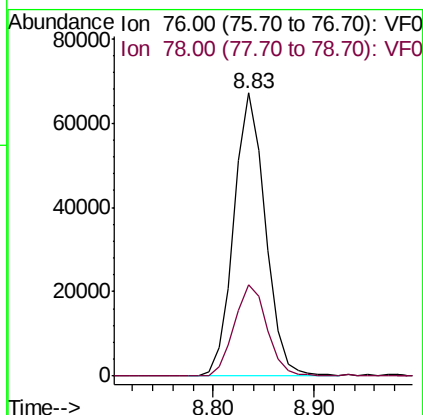
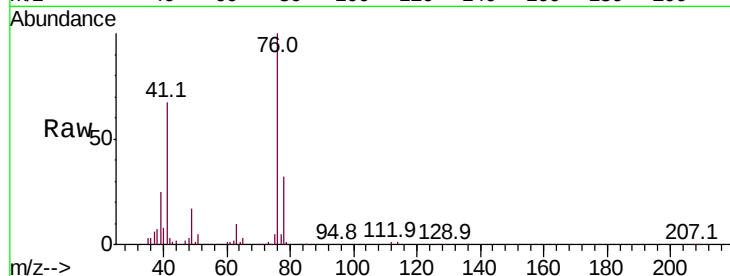
VSTDCCC050

Tot Ion: 76 Resp: 146192

Ion Ratio Lower Upper

76 100

78 32.1 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 153.491 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.01 min

Lab File: VF061246.D

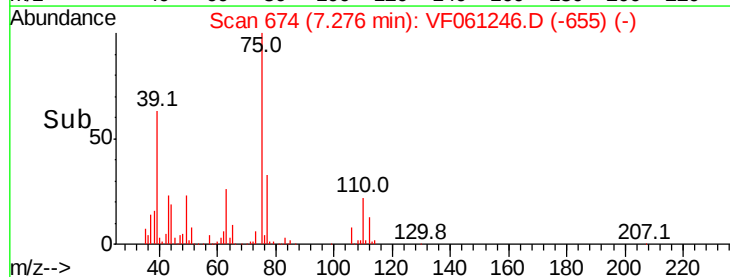
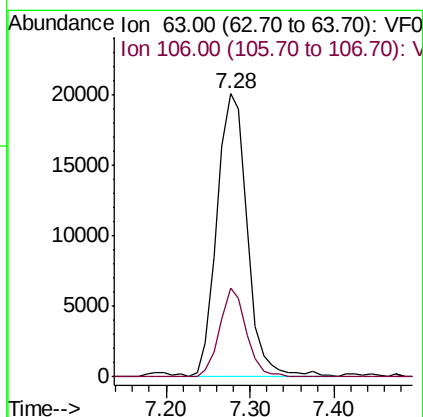
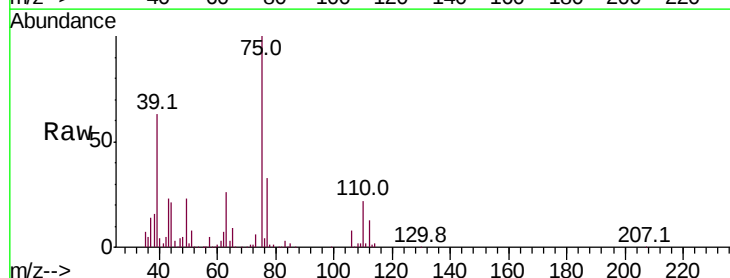
Acq: 2 Jan 2019 11:03

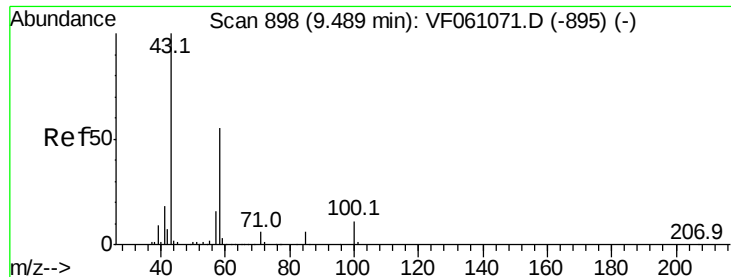
Tgt Ion: 63 Resp: 50385

Ion Ratio Lower Upper

63 100

106 31.5 19.8 29.8#

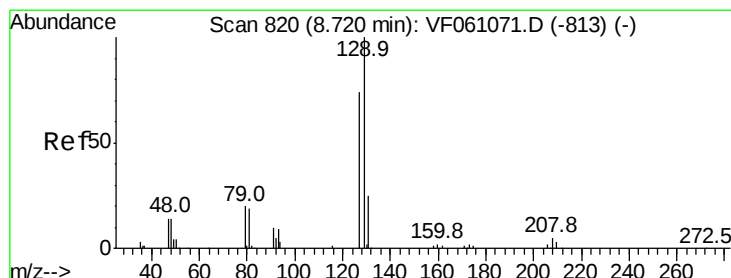
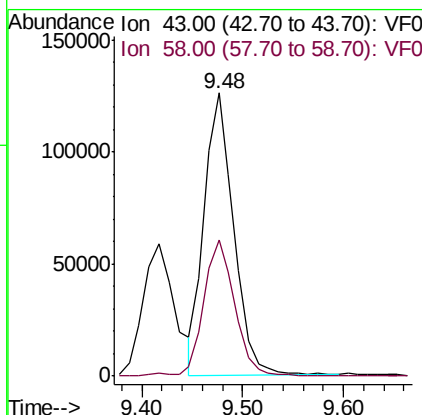
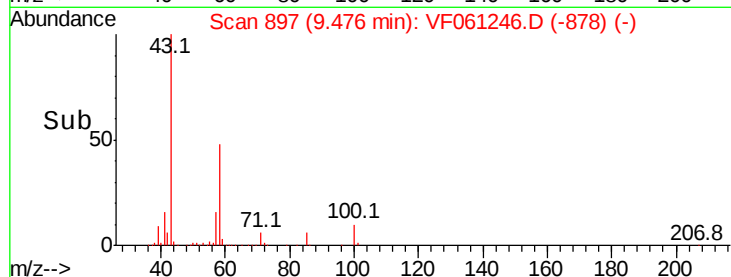
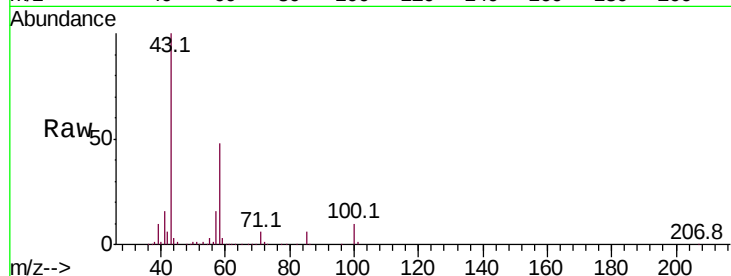




#59
2-Hexanone
Concen: 287.087 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

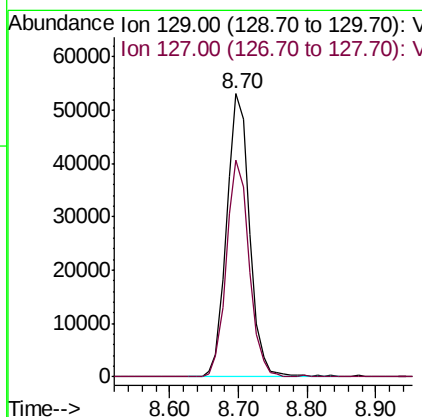
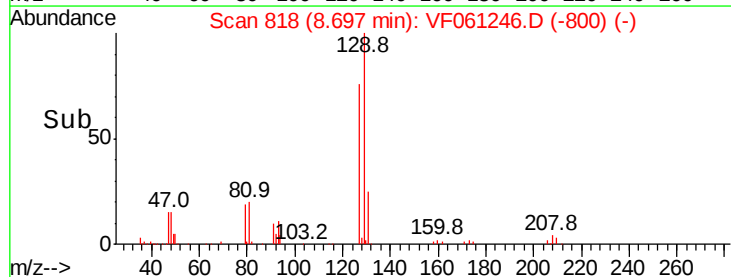
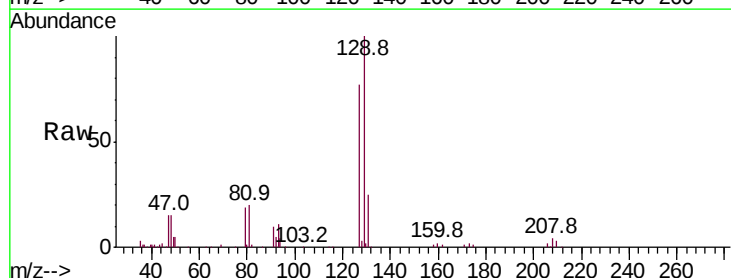
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

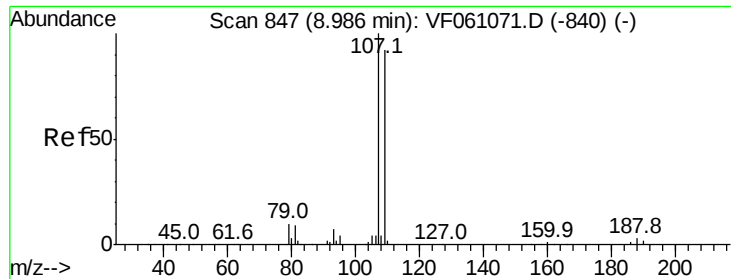
Tot Ion: 43 Resp: 254470
Ion Ratio Lower Upper
43 100
58 48.0 25.1 75.2



#60
Dibromochloromethane
Concen: 54.185 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.02 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Tgt Ion:129 Resp: 122687
Ion Ratio Lower Upper
129 100
127 76.7 36.8 110.3

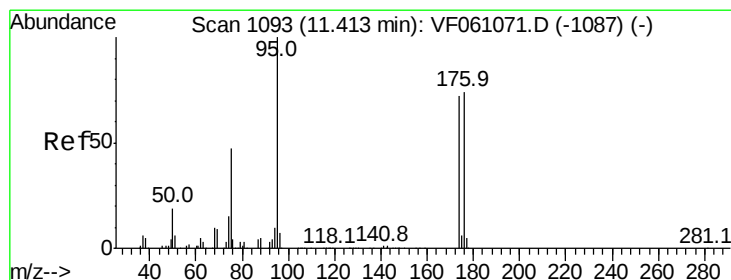
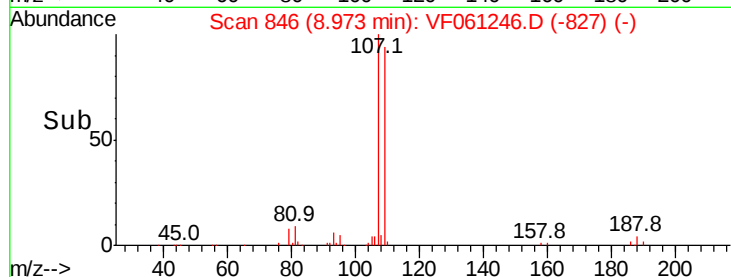
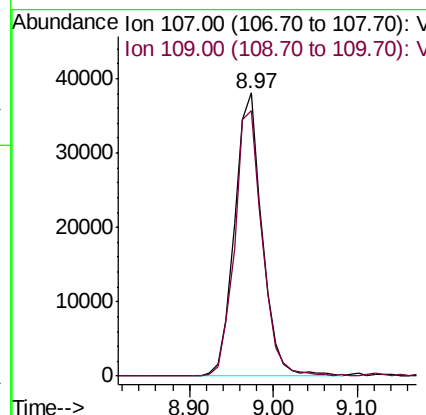
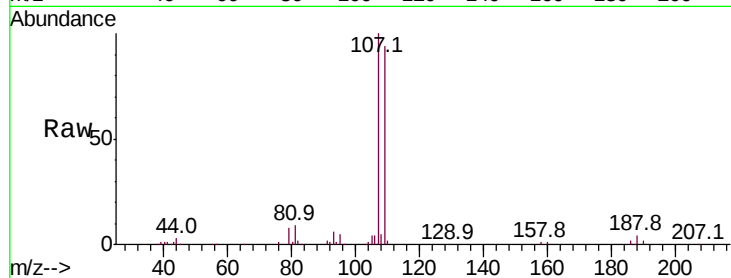




#61
1,2-Dibromoethane
Concen: 51.274 ug/l
RT: 8.97 min Scan# 846
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

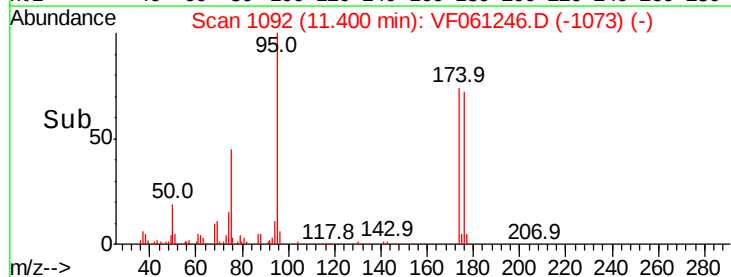
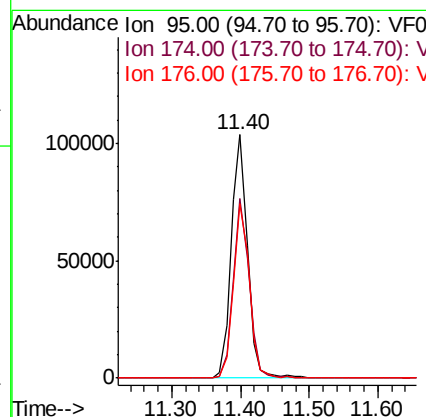
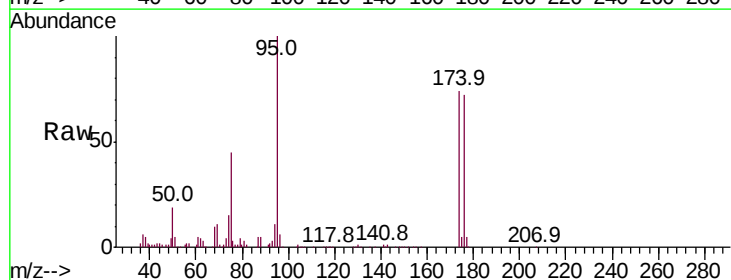
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

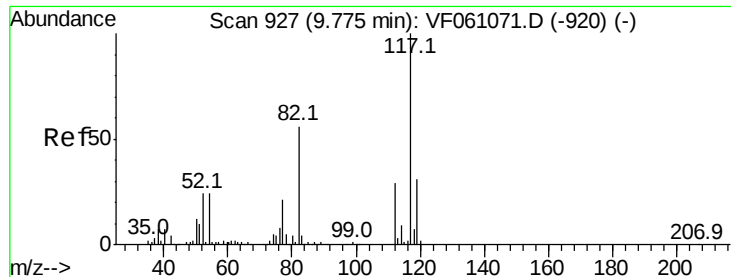
Tot Ion:107 Resp: 86495
Ion Ratio Lower Upper
107 100
109 93.9 73.7 110.5



#62
4-Bromofluorobenzene
Concen: 52.987 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Tgt Ion: 95 Resp: 170039
Ion Ratio Lower Upper
95 100
174 73.5 0.0 143.8
176 71.8 0.0 147.6

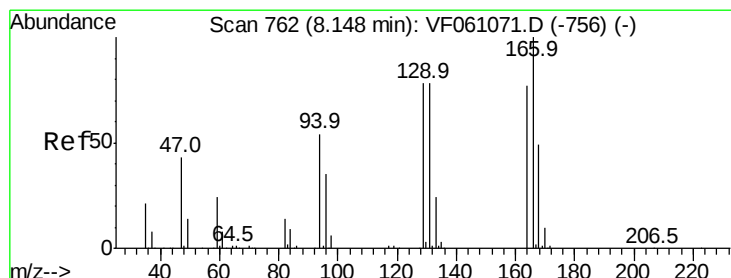
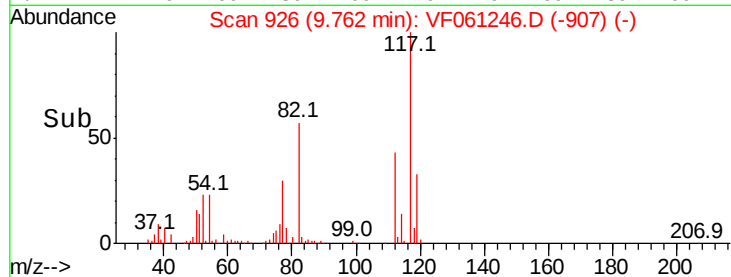
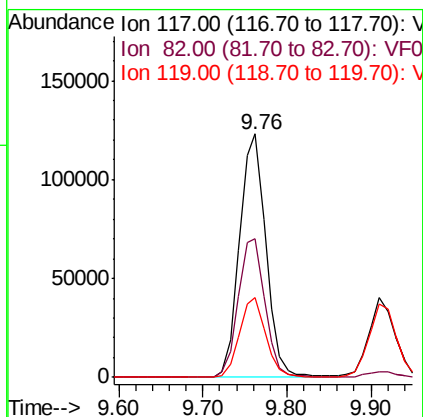
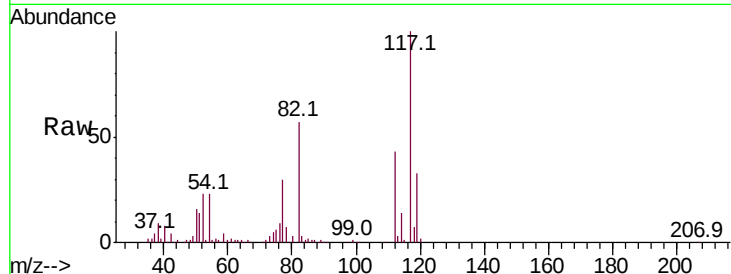




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

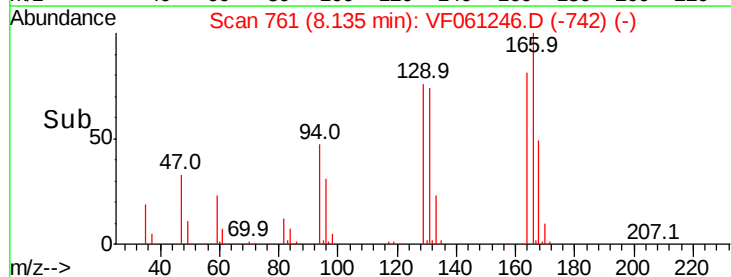
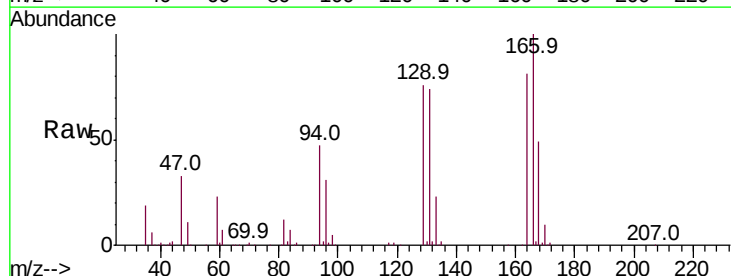
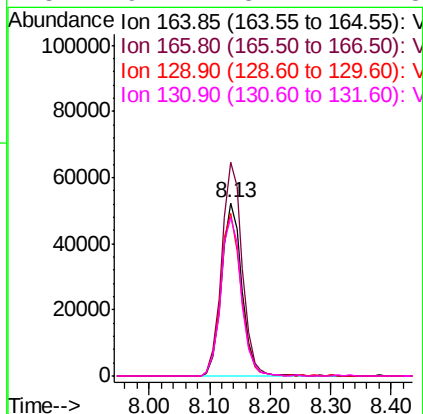
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

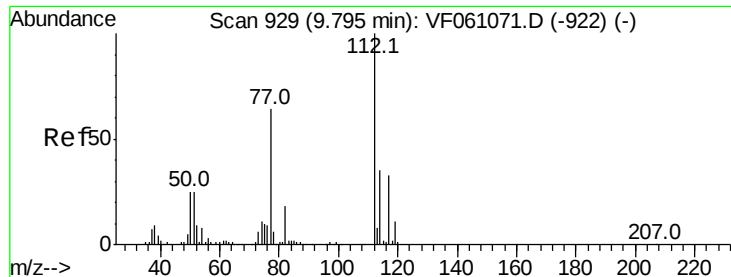
Tot Ion:117 Resp: 269997
Ion Ratio Lower Upper
117 100
82 57.1 45.0 67.4
119 32.8 24.8 37.2



#64
Tetrachloroethene
Concen: 58.626 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Tgt Ion:164 Resp: 121765
Ion Ratio Lower Upper
164 100
166 123.3 104.0 156.0
129 94.0 81.1 121.7
131 91.7 81.2 121.8





#65

Chlorobenzene

Concen: 55.079 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

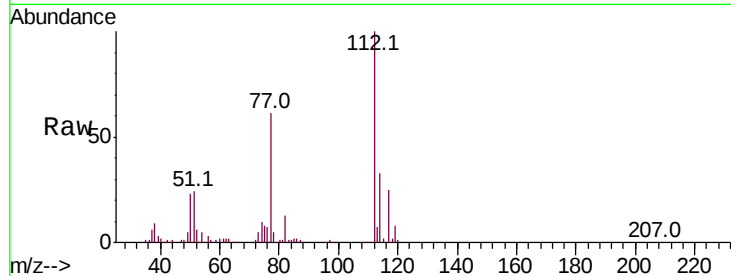
VSTDCCC050

Tot Ion:112 Resp: 307215

Ion Ratio Lower Upper

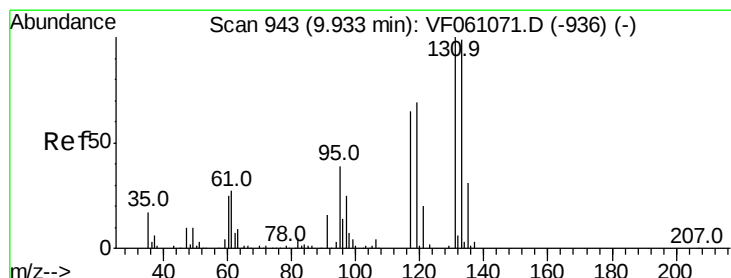
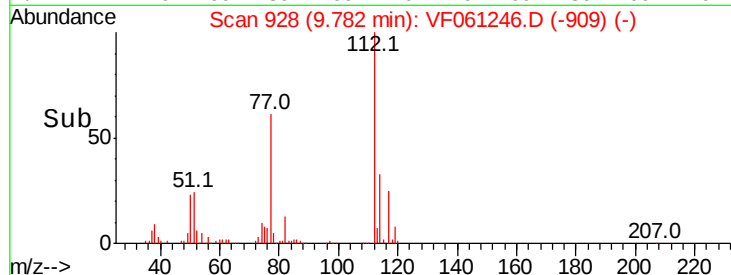
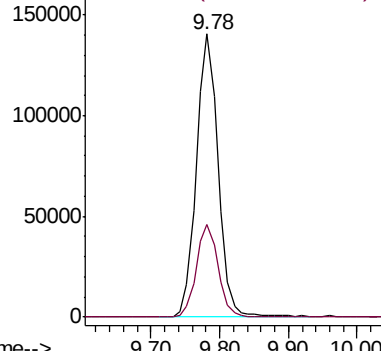
112 100

114 32.8 27.8 41.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 56.225 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.02 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

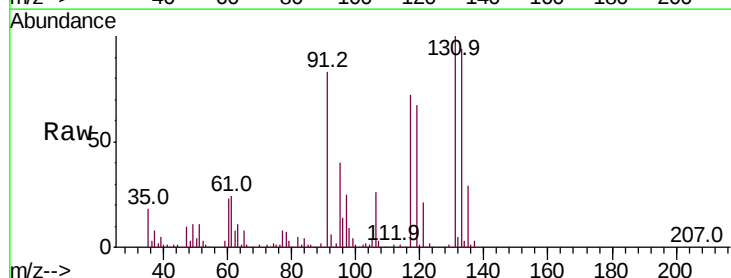
Tgt Ion:131 Resp: 128159

Ion Ratio Lower Upper

131 100

133 93.6 49.5 148.7

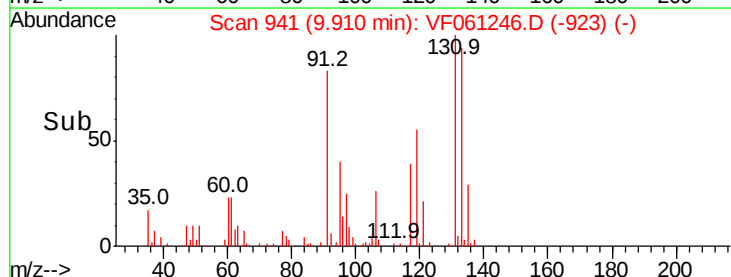
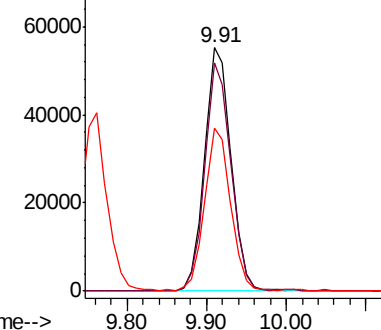
119 67.1 34.5 103.5

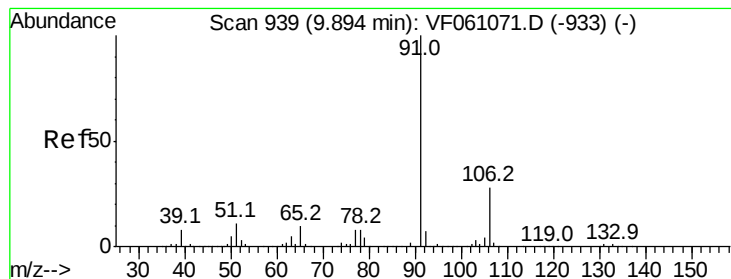


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 54.363 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

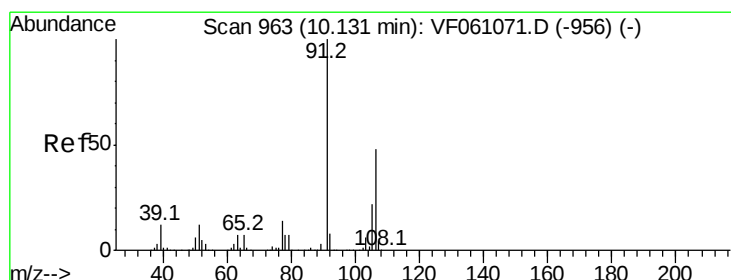
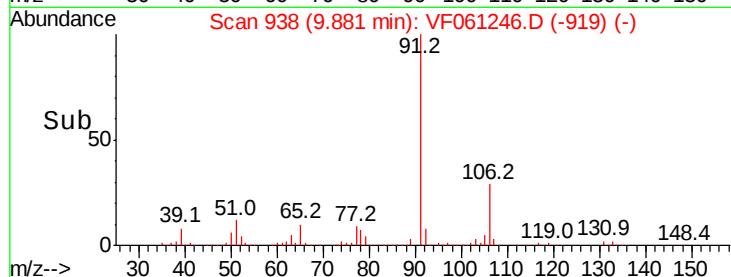
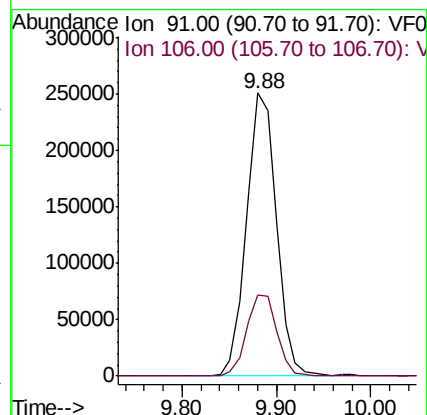
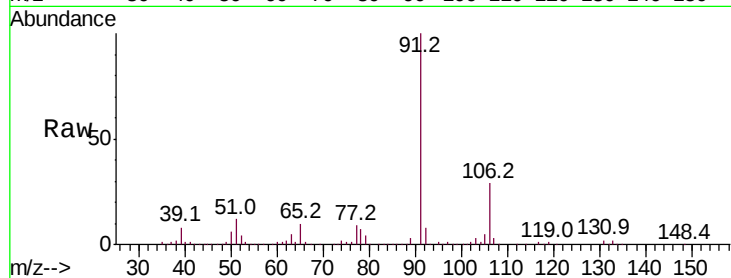
VSTDCCC050

Tot Ion: 91 Resp: 552415

Ion Ratio Lower Upper

91 100

106 28.7 22.5 33.7



#68

m/p-Xylenes

Concen: 108.729 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.01 min

Lab File: VF061246.D

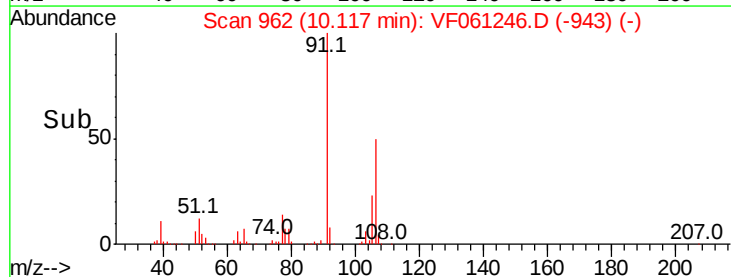
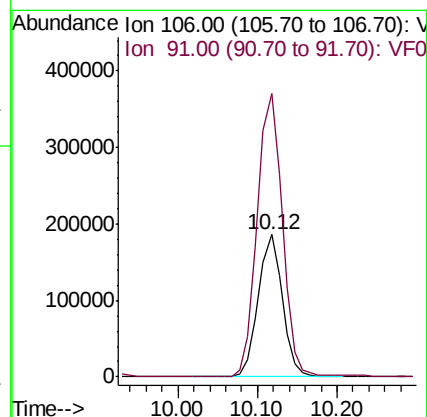
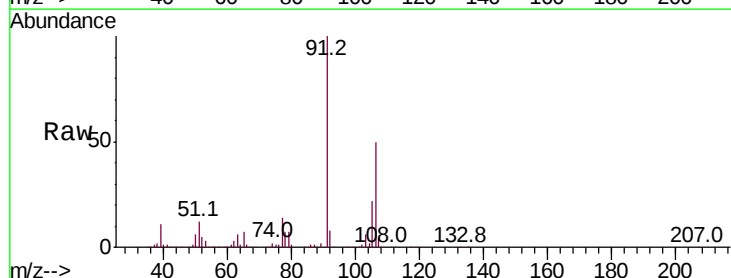
Acq: 2 Jan 2019 11:03

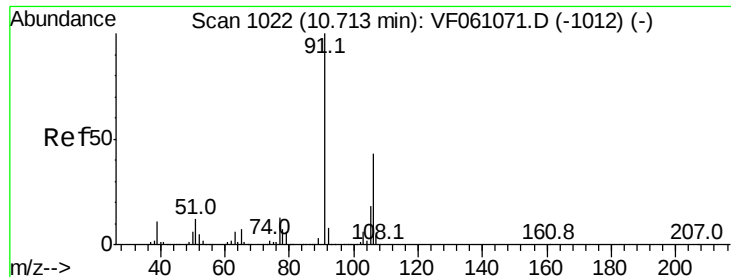
Tgt Ion: 106 Resp: 388829

Ion Ratio Lower Upper

106 100

91 199.2 168.2 252.2

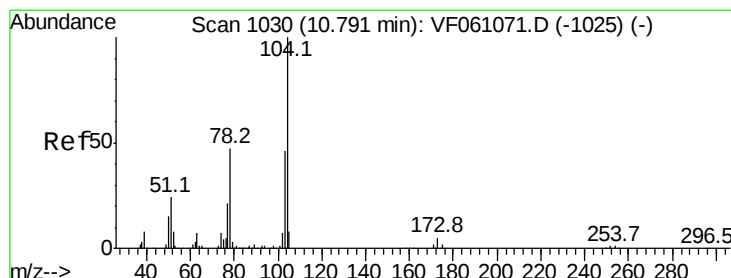
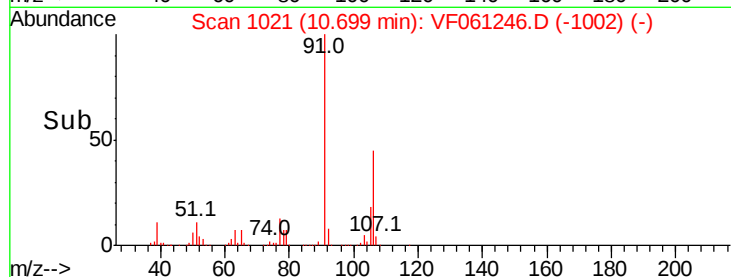
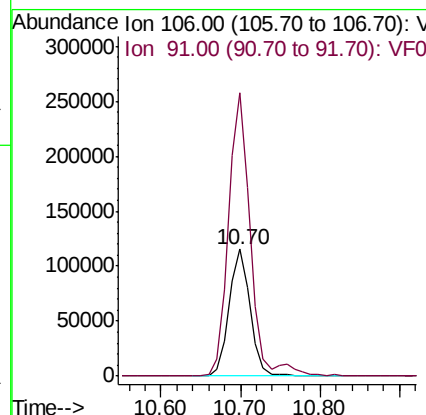
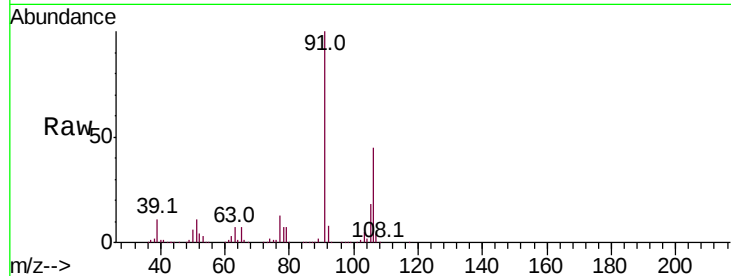




#69
o-Xylene
Concen: 54.464 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

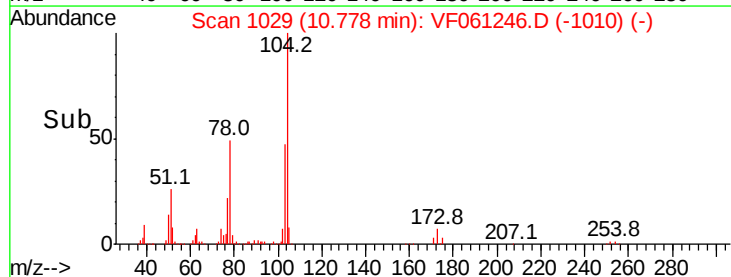
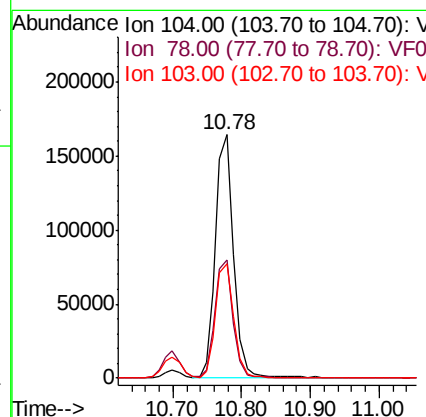
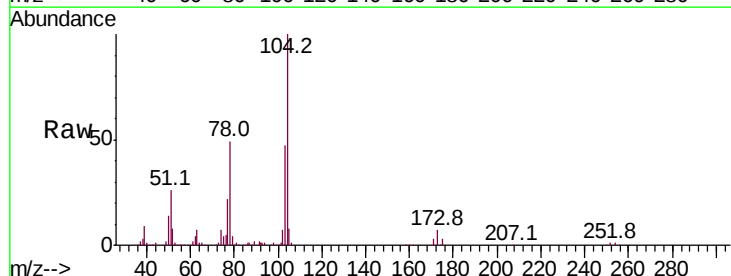
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

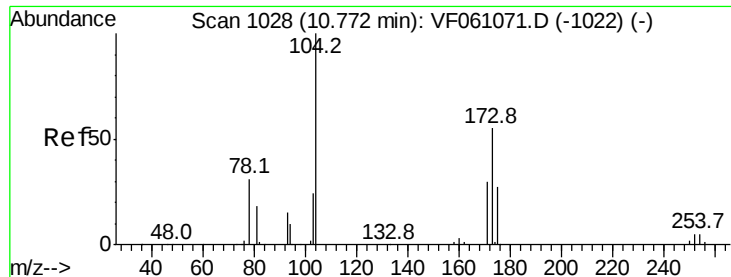
Tot Ion:106 Resp: 216012
Ion Ratio Lower Upper
106 100
91 223.4 115.9 347.7



#70
Styrene
Concen: 63.556 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Tgt Ion:104 Resp: 300764
Ion Ratio Lower Upper
104 100
78 48.5 38.4 57.6
103 47.0 37.0 55.6





#71

Bromoform

Concen: 59.241 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

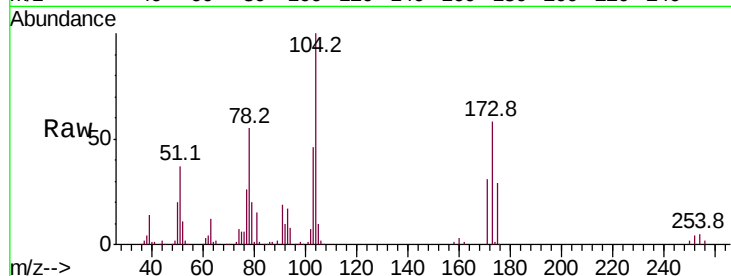
Tot Ion:173 Resp: 62473

Ion Ratio Lower Upper

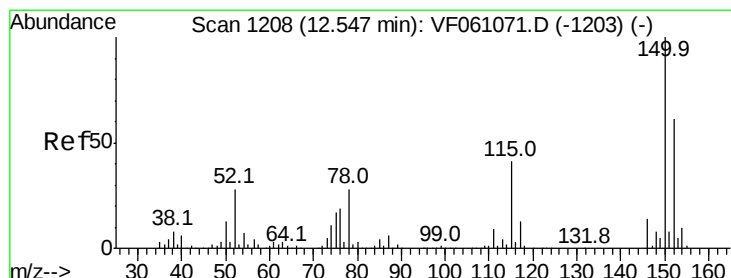
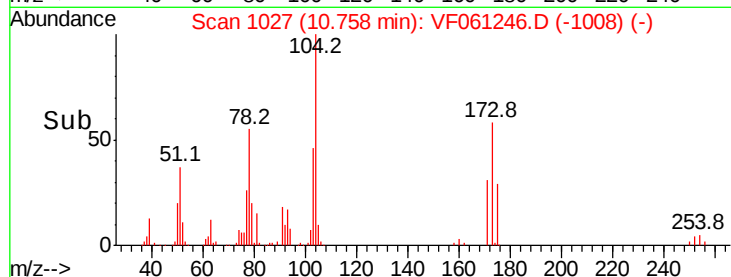
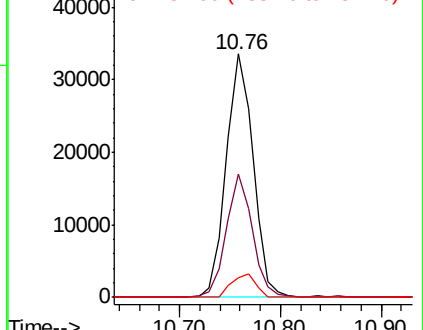
173 100

175 50.6 24.8 74.4

254 8.3 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: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

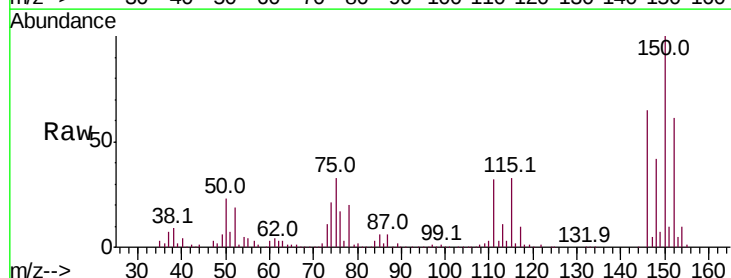
Tgt Ion:152 Resp: 135727

Ion Ratio Lower Upper

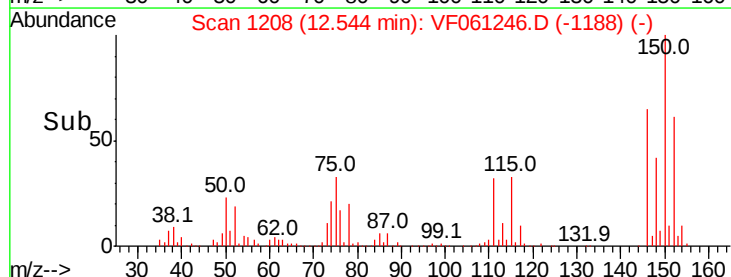
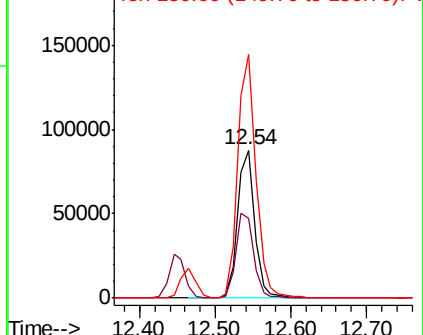
152 100

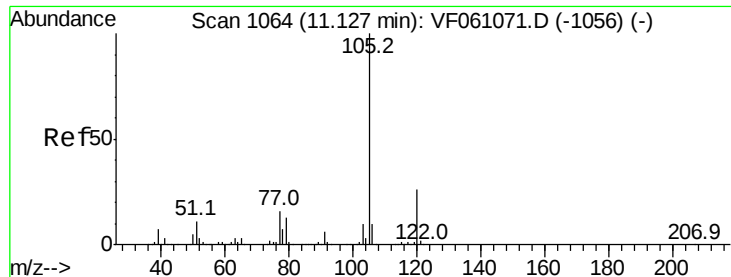
115 54.0 33.3 99.9

150 164.2 0.0 328.2



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





#73

Isopropylbenzene

Concen: 54.802 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

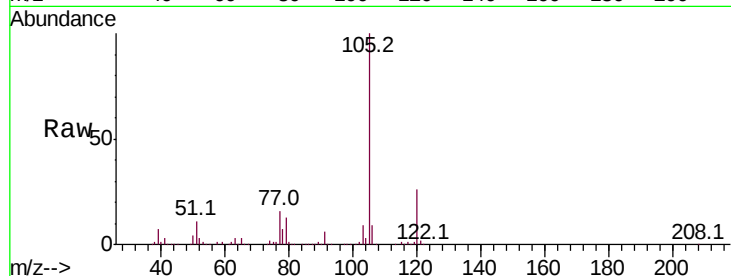
VSTDCCC050

Tot Ion:105 Resp: 640985

Ion Ratio Lower Upper

105 100

120 26.0 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

400000

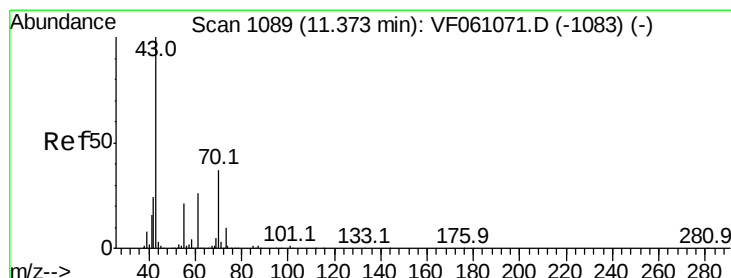
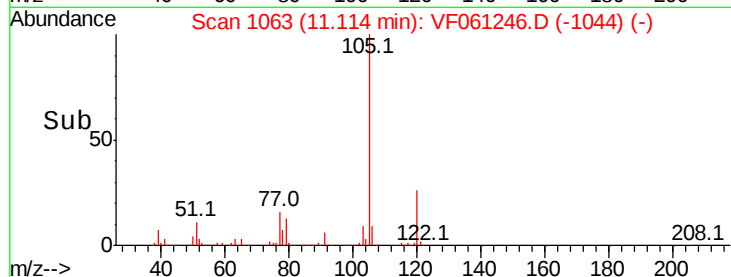
300000

200000

100000

0

Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 60.962 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Tgt Ion: 43 Resp: 158305

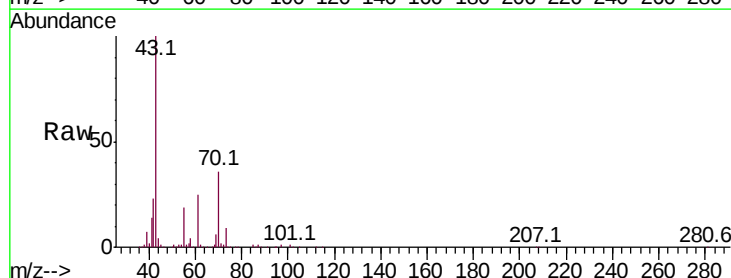
Ion Ratio Lower Upper

43 100

70 36.2 29.2 43.8

55 19.4 16.5 24.7

61 24.6 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.36

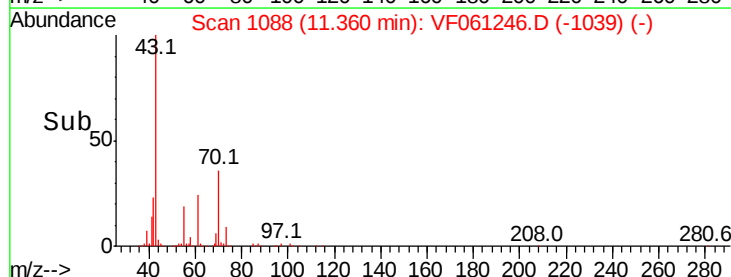
150000

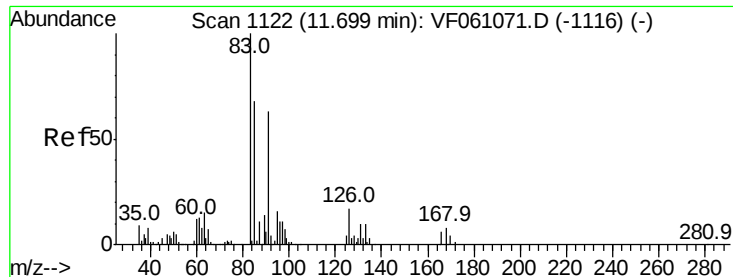
100000

50000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 56.941 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

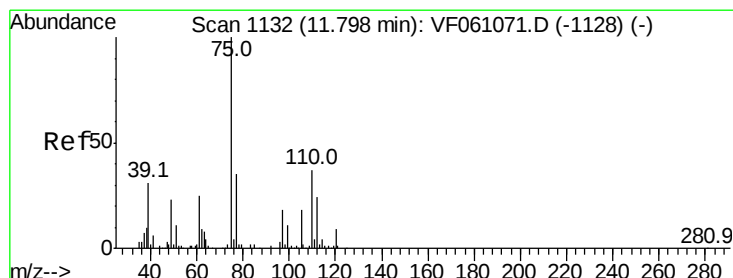
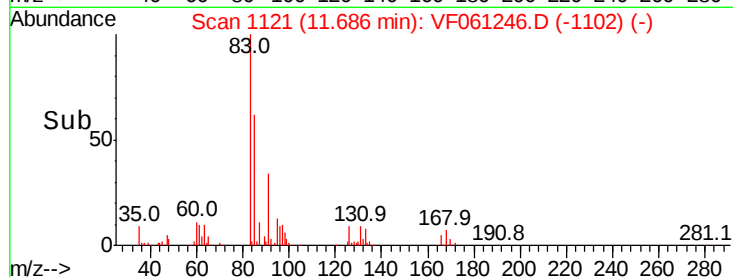
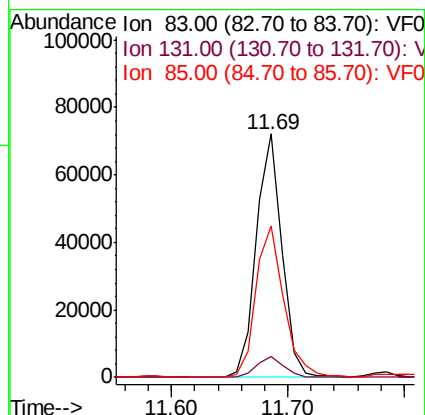
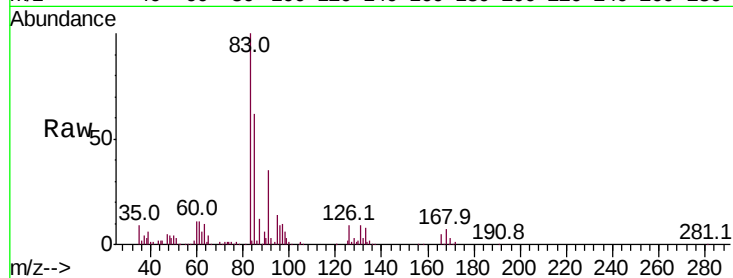
Tot Ion: 83 Resp: 110534

Ion Ratio Lower Upper

83 100

131 8.8 4.8 14.3

85 62.1 33.9 101.6



#76

1,2,3-Trichloropropane

Concen: 53.215 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF061246.D

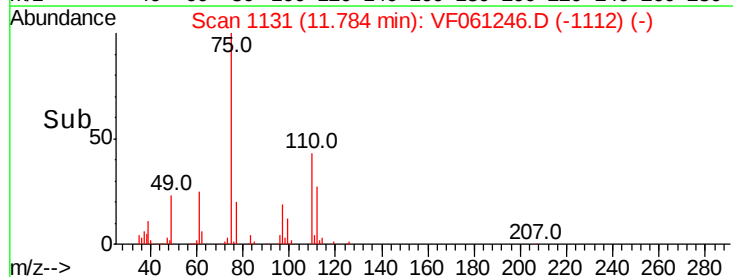
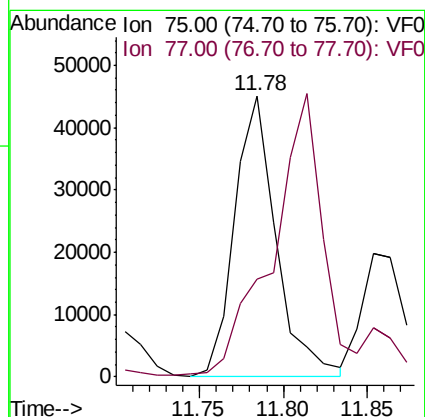
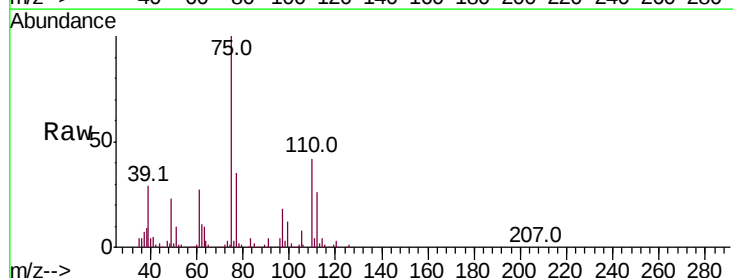
Acq: 2 Jan 2019 11:03

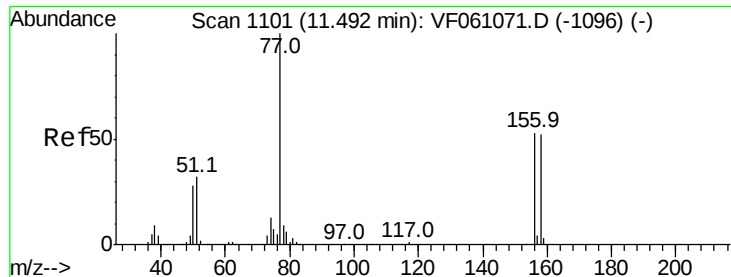
Tgt Ion: 75 Resp: 76876

Ion Ratio Lower Upper

75 100

77 34.7 17.6 52.9





#77

Bromobenzene

Concen: 54.994 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

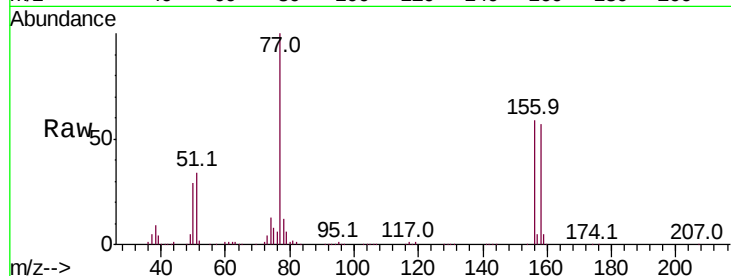
Tot Ion:156 Resp: 138466

Ion Ratio Lower Upper

156 100

77 170.0 93.8 281.4

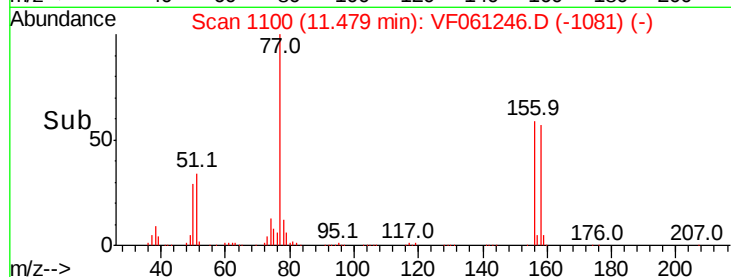
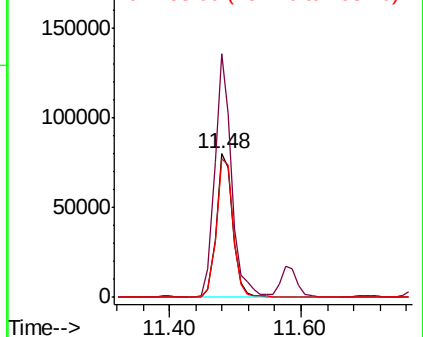
158 97.2 48.9 146.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 54.095 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VF061246.D

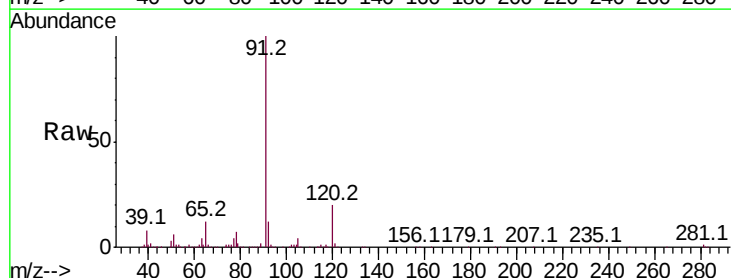
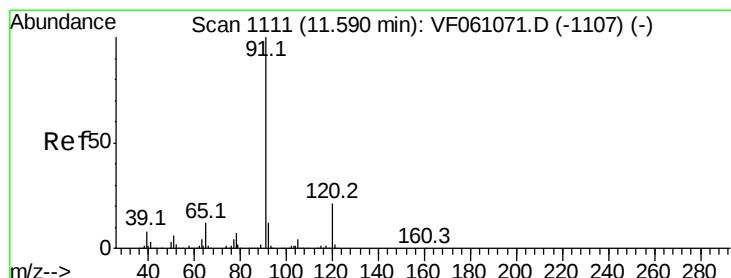
Acq: 2 Jan 2019 11:03

Tgt Ion: 91 Resp: 716073

Ion Ratio Lower Upper

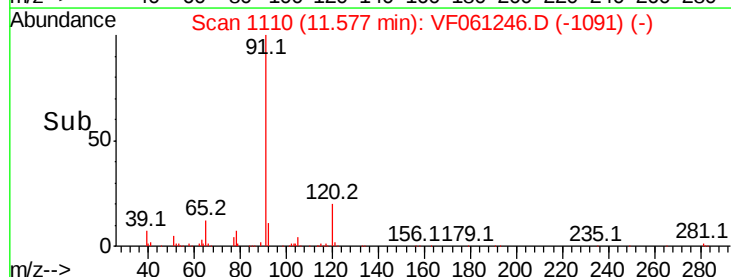
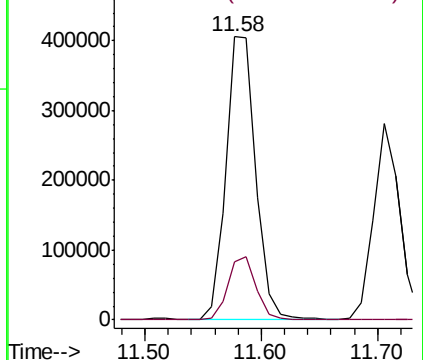
91 100

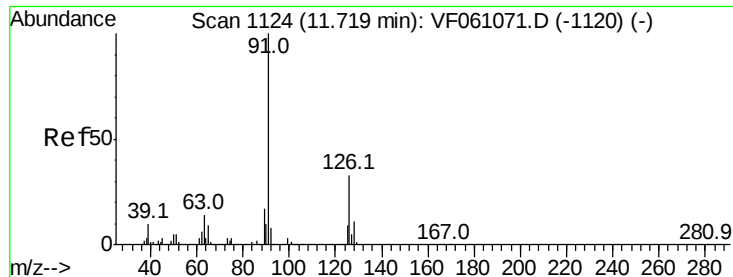
120 20.4 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 54.072 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

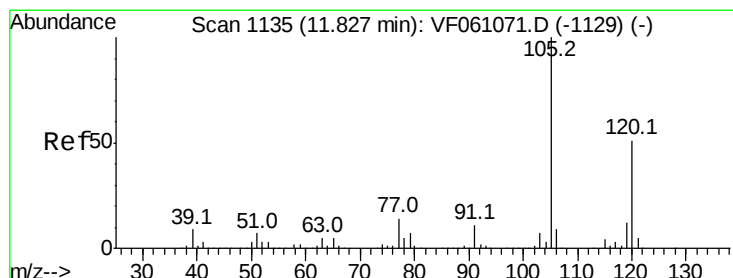
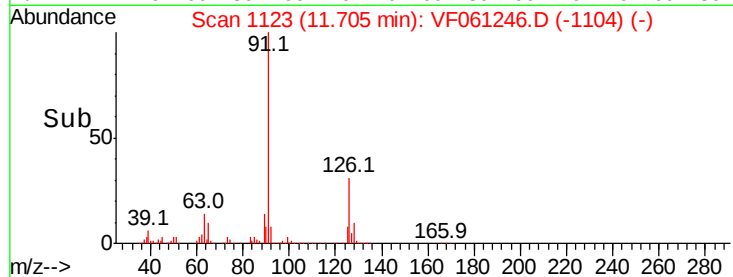
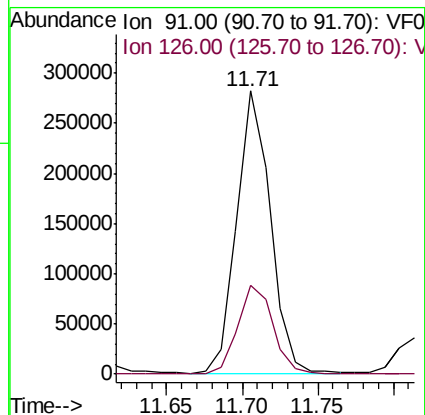
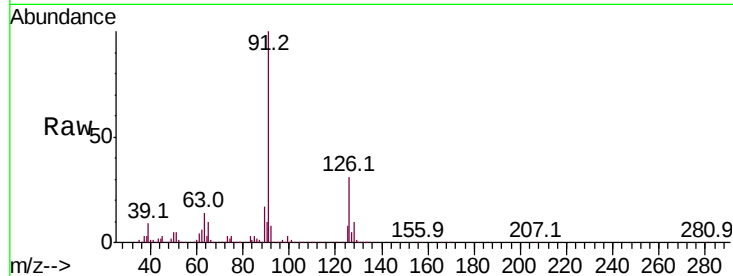
VSTDCCC050

Tot Ion: 91 Resp: 433853

Ion Ratio Lower Upper

91 100

126 31.3 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 52.957 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF061246.D

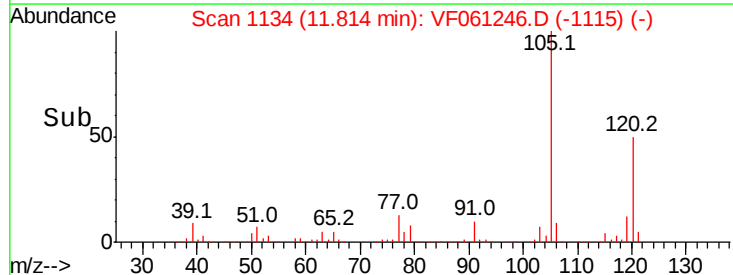
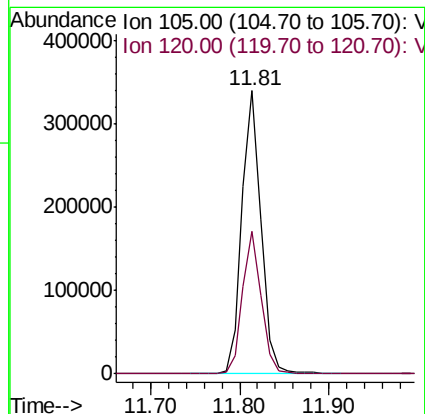
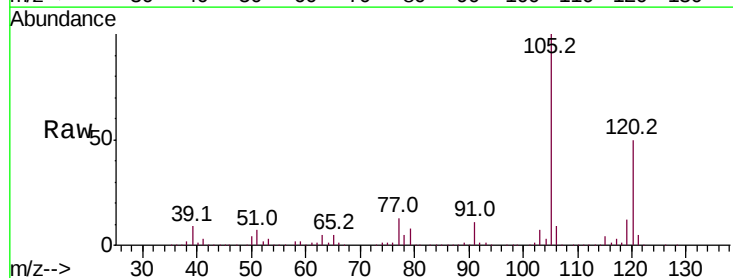
Acq: 2 Jan 2019 11:03

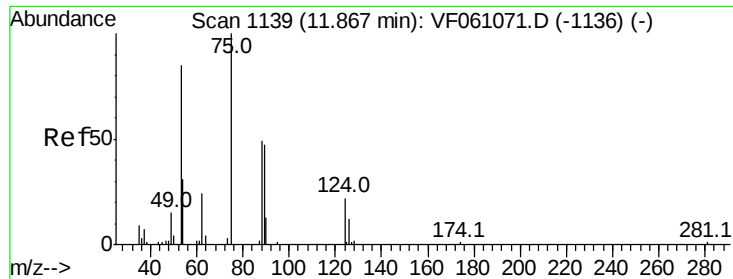
Tgt Ion: 105 Resp: 510033

Ion Ratio Lower Upper

105 100

120 50.3 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 72.530 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

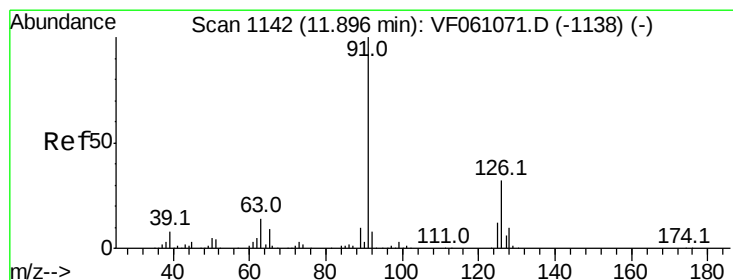
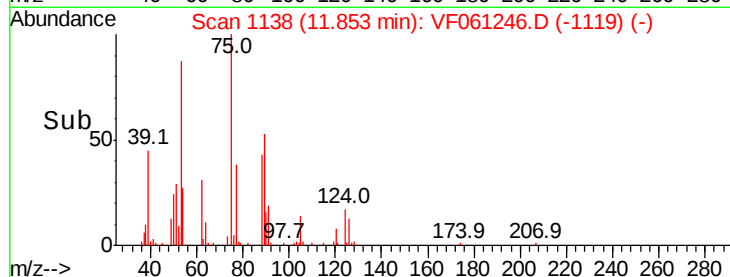
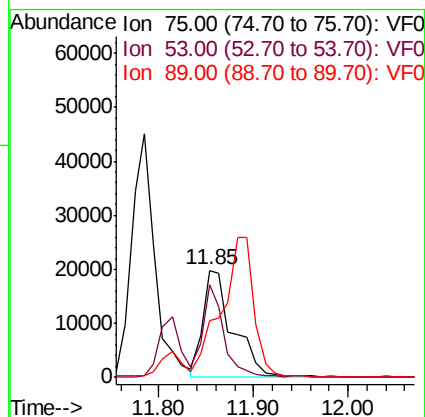
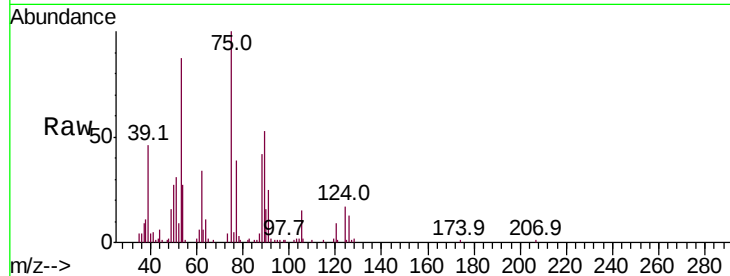
Tot Ion: 75 Resp: 45025

Ion	Ratio	Lower	Upper
75	100		
53	86.8	74.1	111.1
89	52.9	42.6	64.0

75 100

53 86.8 74.1 111.1

89 52.9 42.6 64.0



#82

4-Chlorotoluene

Concen: 49.477 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF061246.D

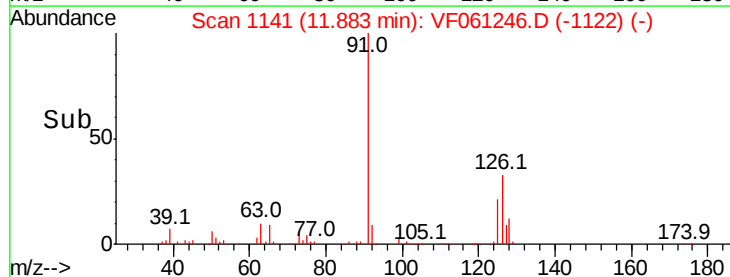
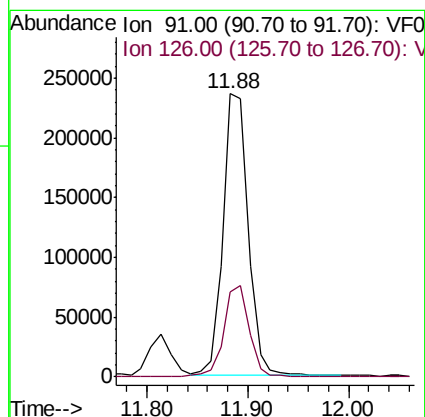
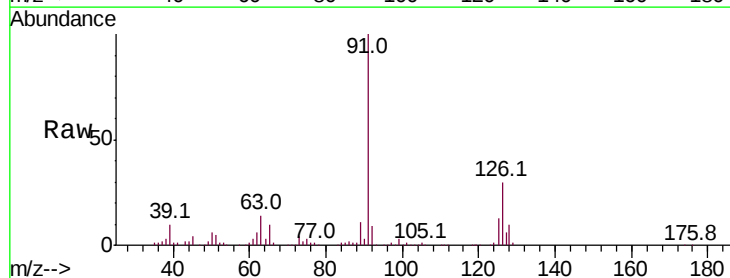
Acq: 2 Jan 2019 11:03

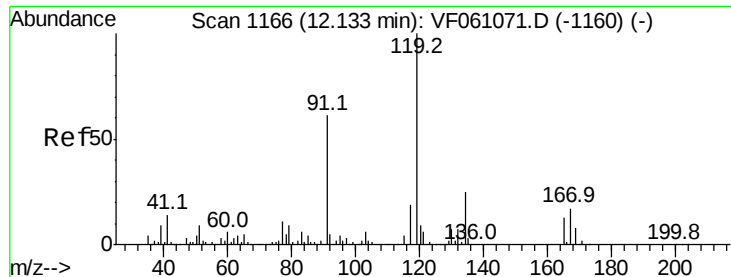
Tgt Ion: 91 Resp: 410674

Ion	Ratio	Lower	Upper
91	100		
126	29.9	16.0	47.9

91 100

126 29.9 16.0 47.9





#83

tert-Butylbenzene

Concen: 53.620 ug/l

RT: 12.12 min Scan# 1165

Delta R.T. -0.01 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

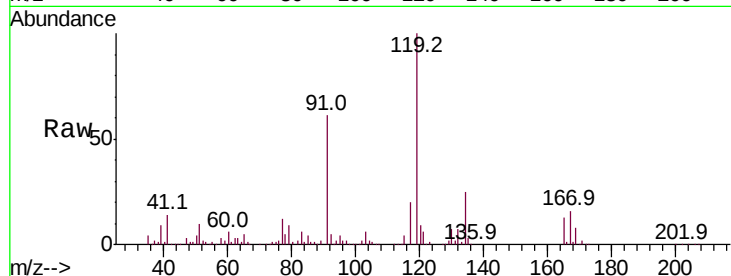
Tot Ion:119 Resp: 531408

Ion Ratio Lower Upper

119 100

91 61.1 30.5 91.5

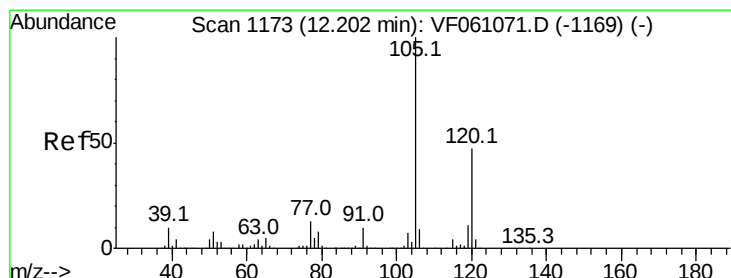
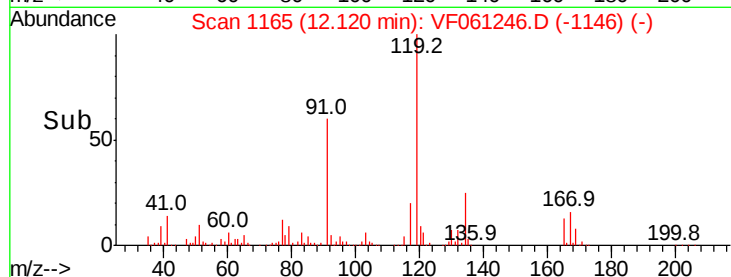
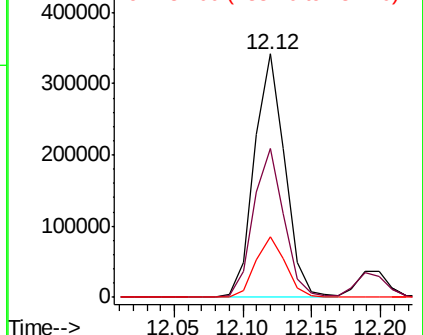
134 25.0 12.4 37.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 52.009 ug/l

RT: 12.19 min Scan# 1172

Delta R.T. -0.01 min

Lab File: VF061246.D

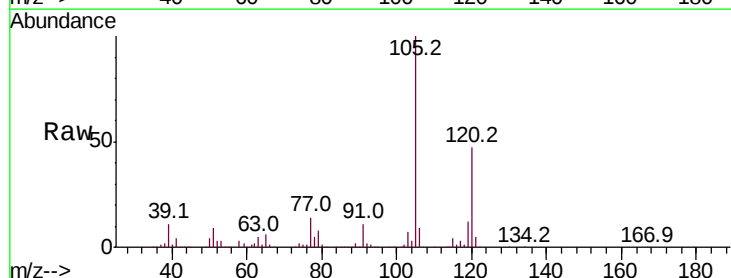
Acq: 2 Jan 2019 11:03

Tgt Ion:105 Resp: 499509

Ion Ratio Lower Upper

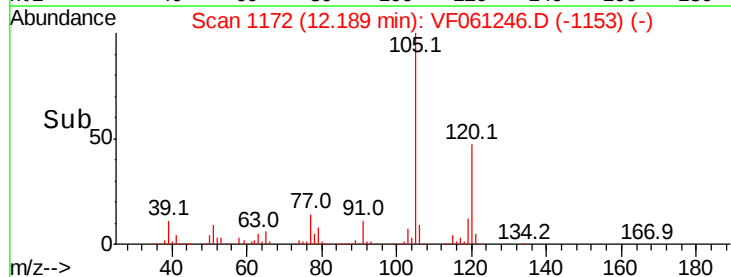
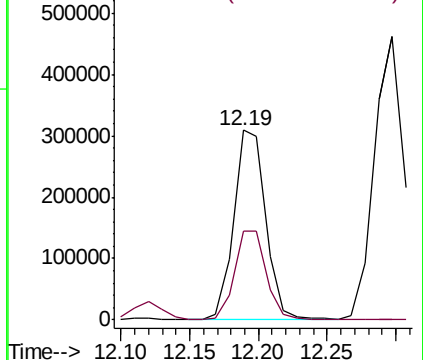
105 100

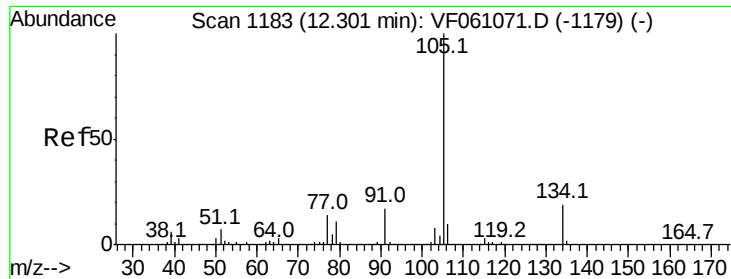
120 46.9 23.6 71.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

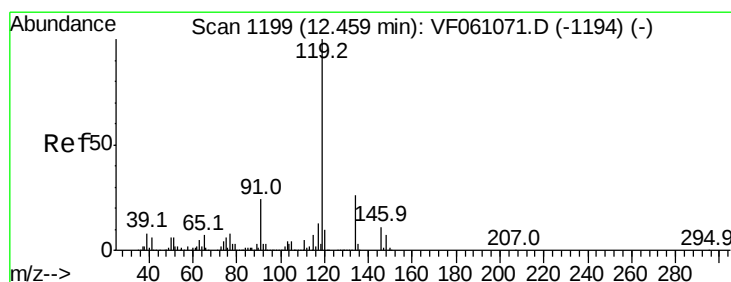
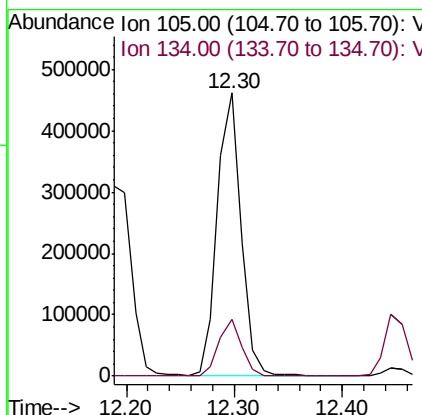
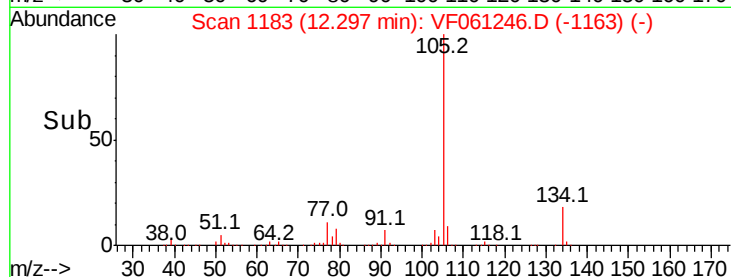
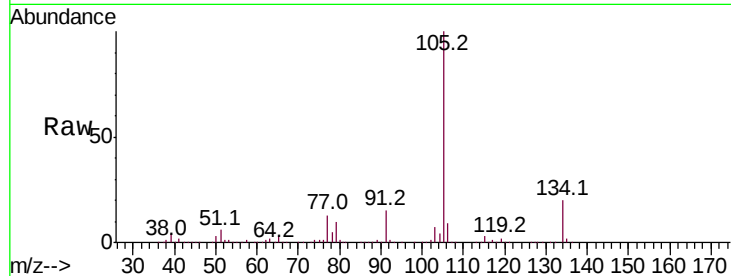




#85
 sec-Butylbenzene
 Concen: 54.506 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.00 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

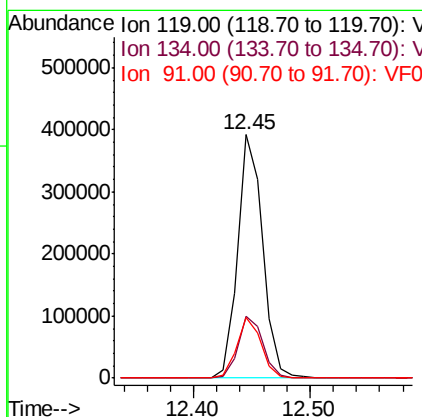
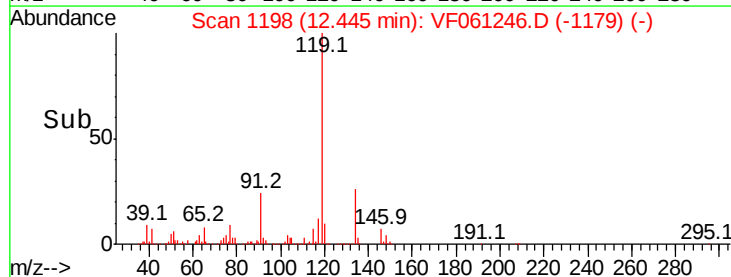
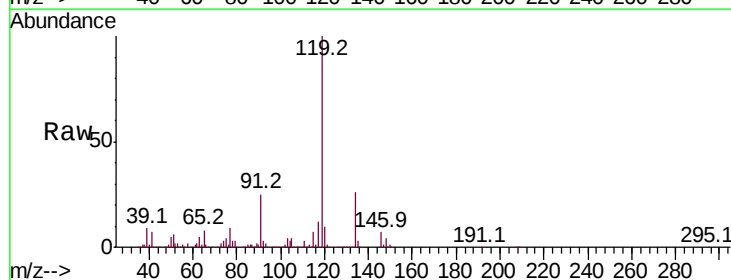
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

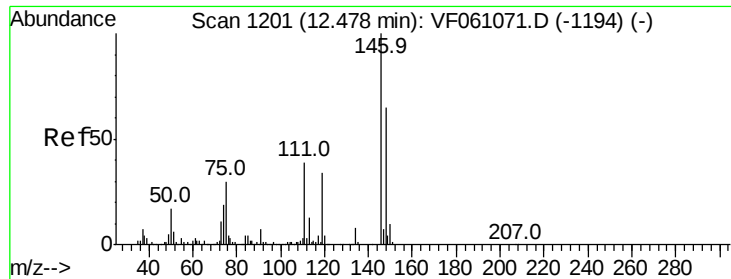
Tot Ion:105 Resp: 704940
 Ion Ratio Lower Upper
 105 100
 134 20.0 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 54.152 ug/l
 RT: 12.45 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

Tgt Ion:119 Resp: 581344
 Ion Ratio Lower Upper
 119 100
 134 25.7 12.8 38.4
 91 24.7 12.2 36.6

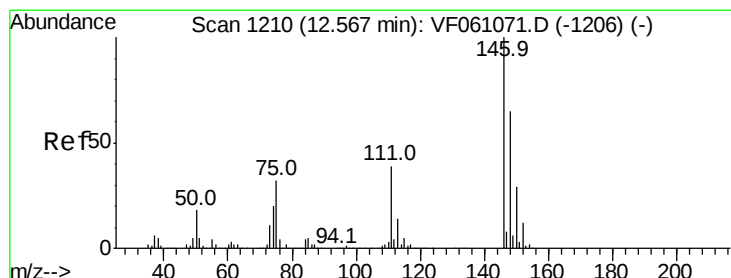
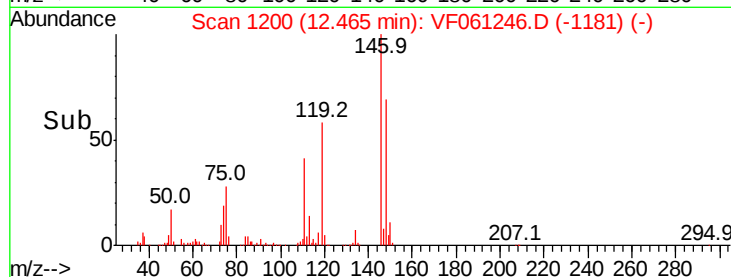
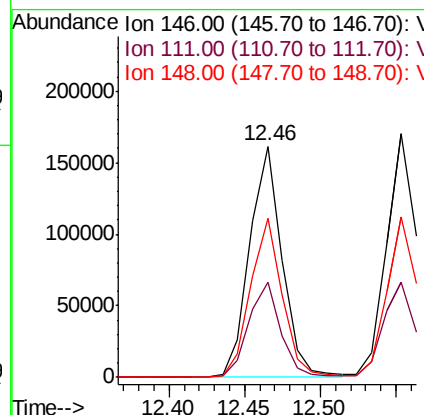
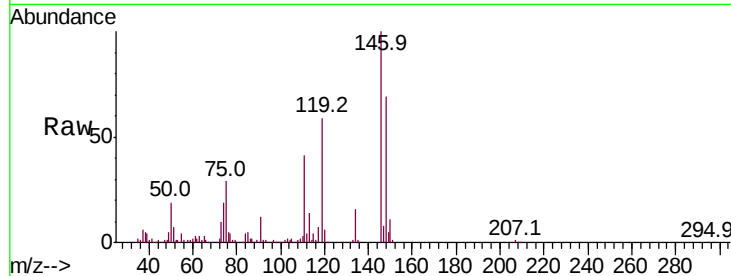




#87
 1,3-Dichlorobenzene
 Concen: 60.034 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

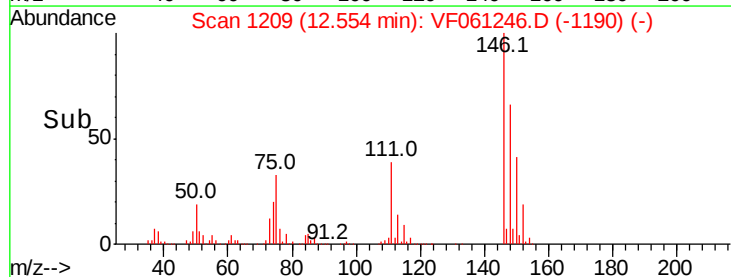
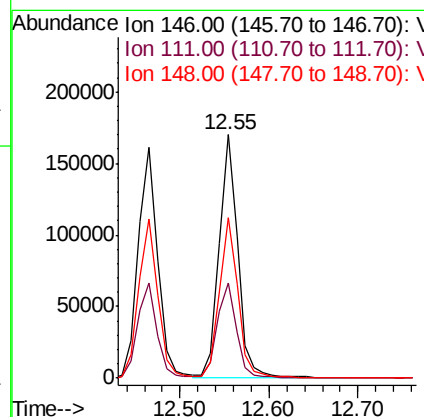
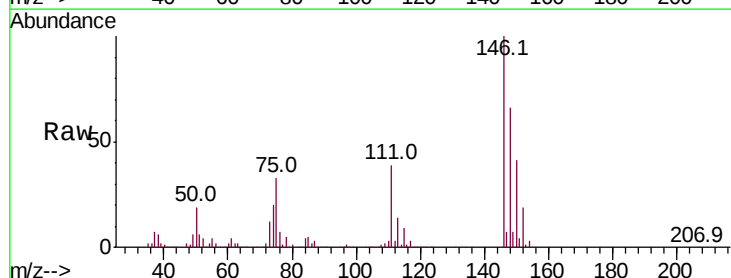
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

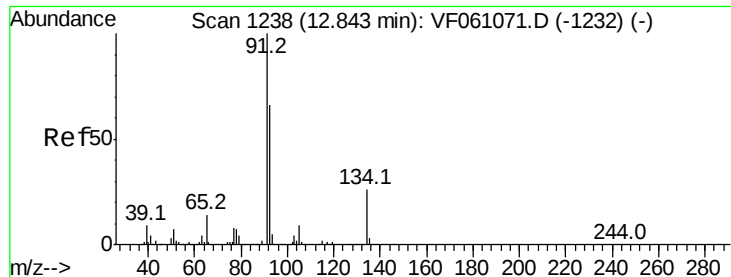
Tot Ion:146 Resp: 242243
 Ion Ratio Lower Upper
 146 100
 111 41.3 19.3 57.9
 148 68.8 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 53.497 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

Tgt Ion:146 Resp: 247335
 Ion Ratio Lower Upper
 146 100
 111 38.8 19.4 58.4
 148 65.9 32.4 97.0

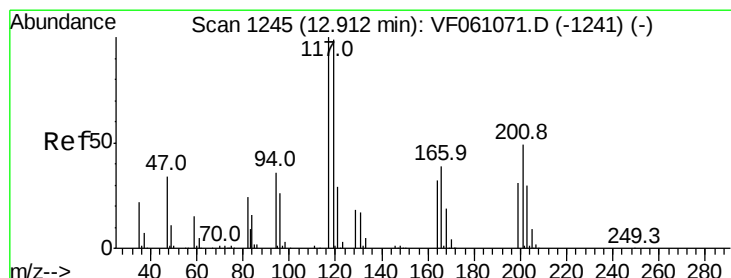
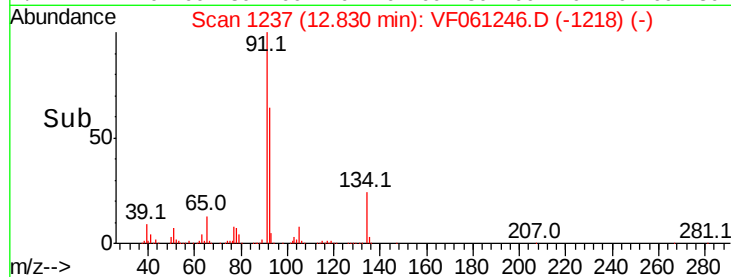
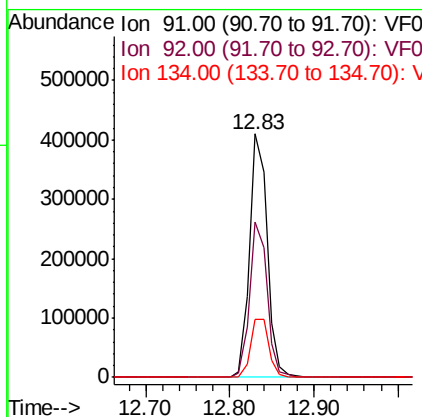
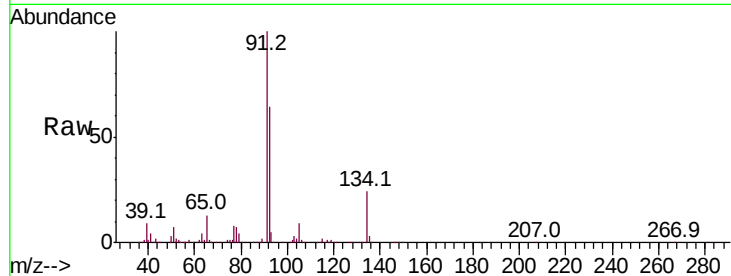




#89
n-Butylbenzene
Concen: 58.383 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

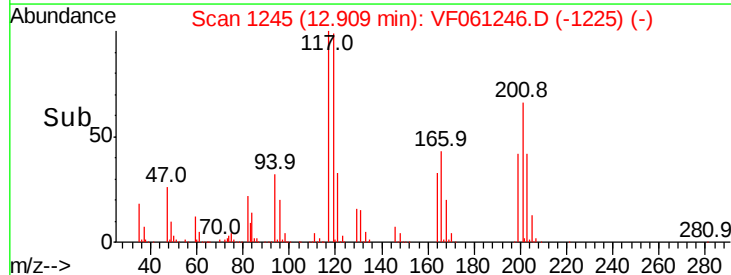
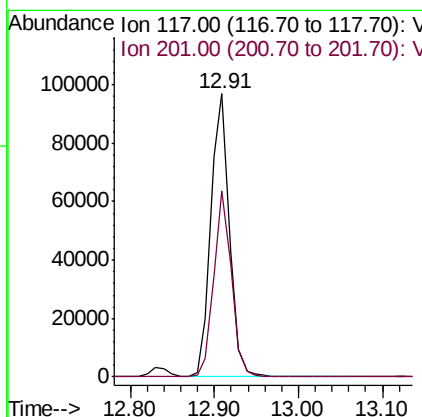
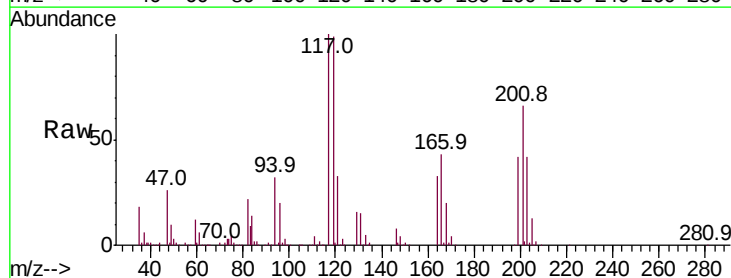
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

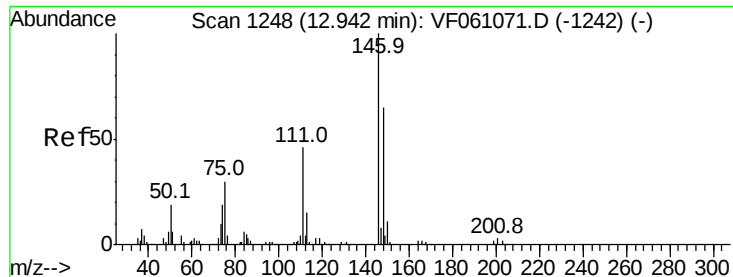
Tot Ion: 91 Resp: 607939
Ion Ratio Lower Upper
91 100
92 63.6 32.8 98.4
134 24.0 13.2 39.5



#90
Hexachloroethane
Concen: 55.946 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.00 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Tgt Ion: 117 Resp: 148387
Ion Ratio Lower Upper
117 100
201 65.7 24.9 74.8

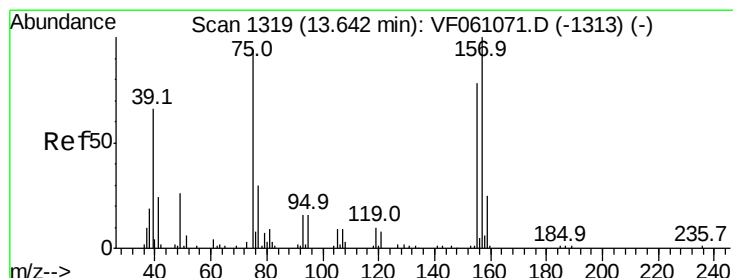
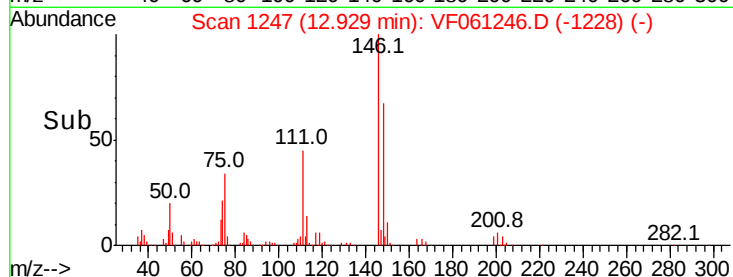
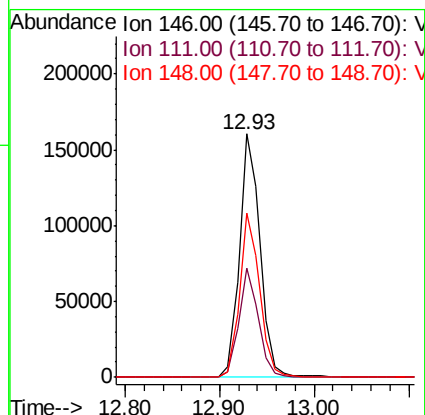
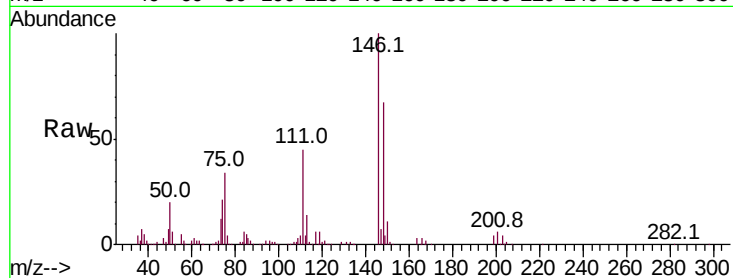




#91
 1,2-Dichlorobenzene
 Concen: 53.772 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

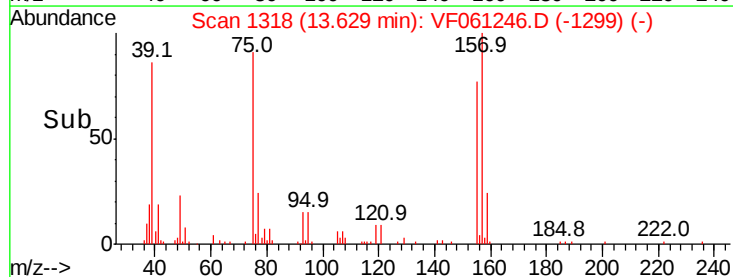
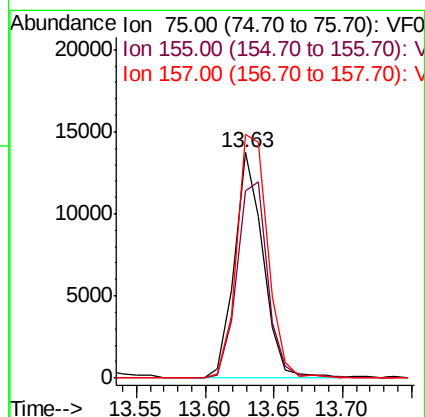
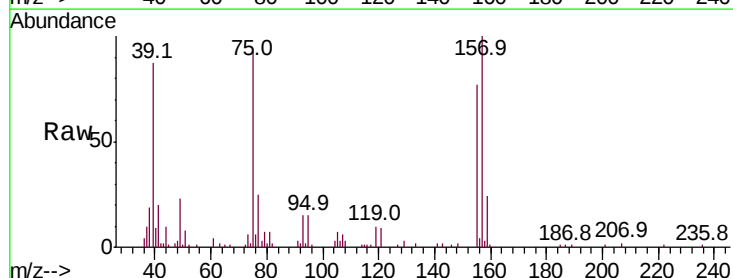
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

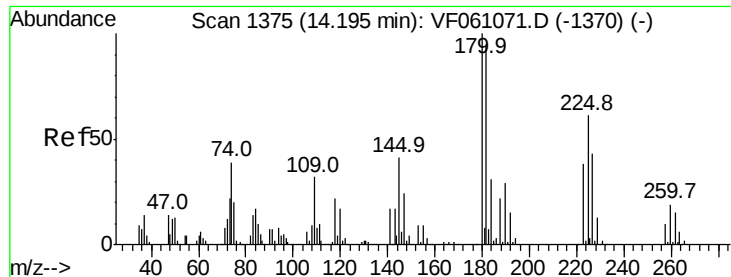
Tot Ion:146 Resp: 242037
 Ion Ratio Lower Upper
 146 100
 111 44.9 23.2 69.5
 148 67.5 32.4 97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.710 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VF061246.D
 Acq: 2 Jan 2019 11:03

Tgt Ion: 75 Resp: 19845
 Ion Ratio Lower Upper
 75 100
 155 83.1 41.5 124.5
 157 108.1 53.2 159.6

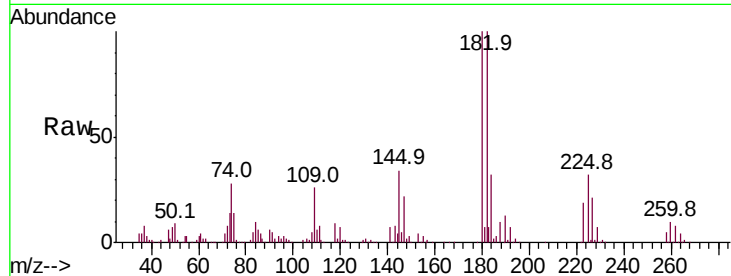




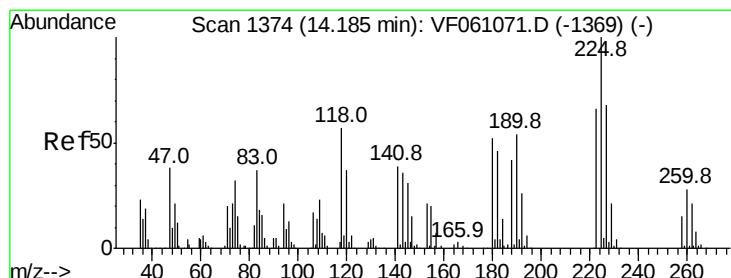
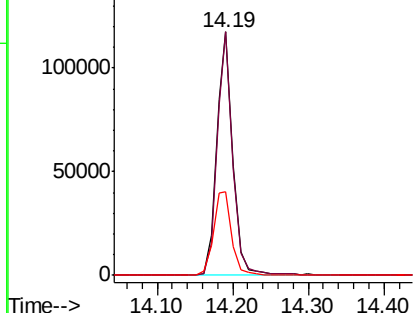
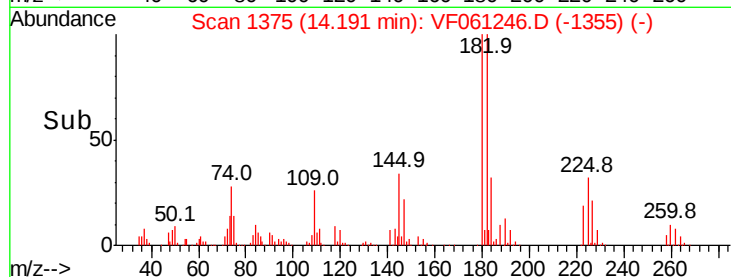
#93
1,2,4-Trichlorobenzene
Concen: 55.213 ug/l
RT: 14.19 min Scan# 1375
Delta R.T. -0.00 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:180 Resp: 176252
Ion Ratio Lower Upper
180 100
182 99.8 46.9 140.6
145 34.1 20.5 61.6

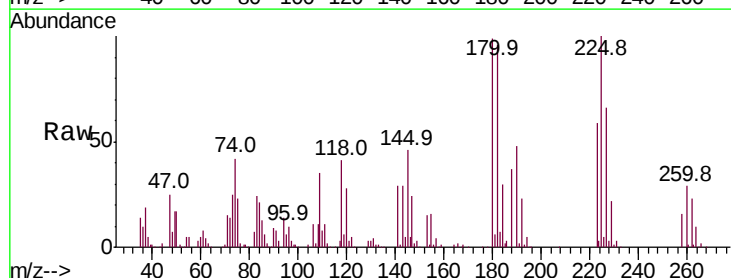


Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

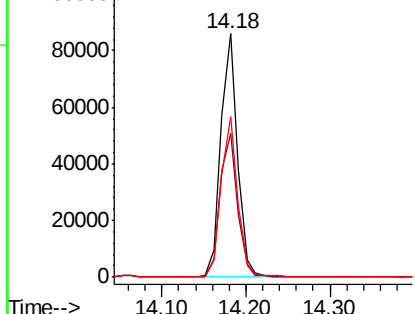
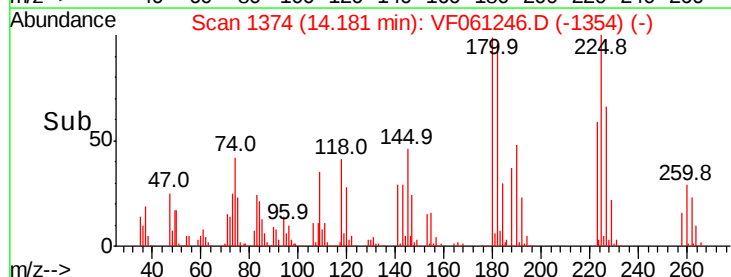


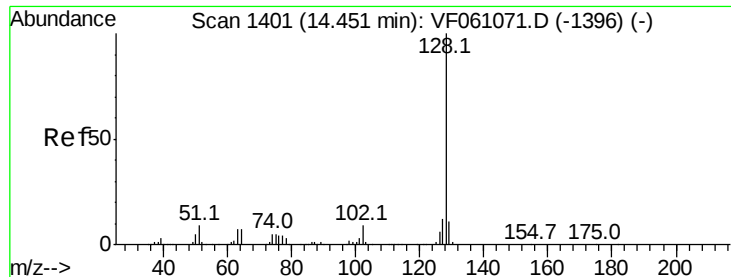
#94
Hexachlorobutadiene
Concen: 58.560 ug/l
RT: 14.18 min Scan# 1374
Delta R.T. -0.00 min
Lab File: VF061246.D
Acq: 2 Jan 2019 11:03

Tgt Ion:225 Resp: 119062
Ion Ratio Lower Upper
225 100
223 59.2 32.8 98.3
227 66.1 34.0 101.8



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 57.265 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

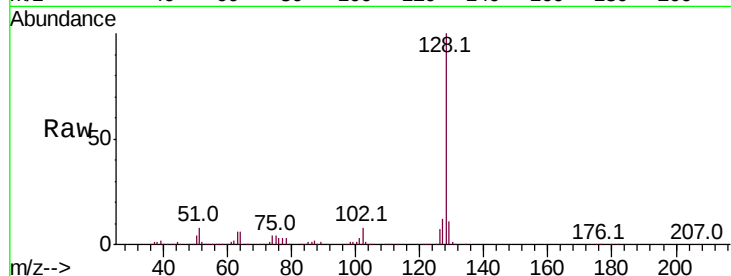
Tot Ion:128 Resp: 333802

Ion Ratio Lower Upper

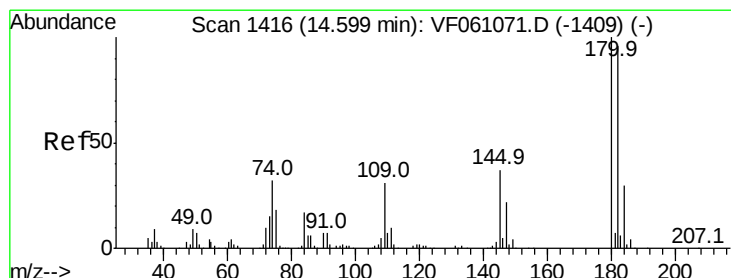
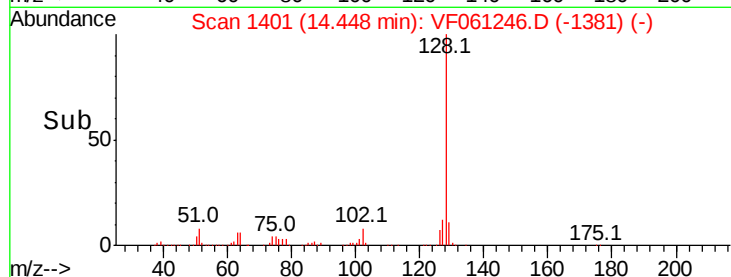
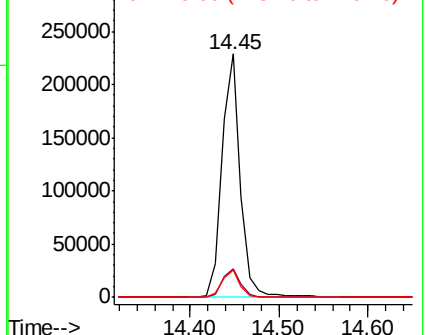
128 100

127 11.7 9.4 14.2

129 11.1 8.8 13.2



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



#96

1,2,3-Trichlorobenzene

Concen: 55.347 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF061246.D

Acq: 2 Jan 2019 11:03

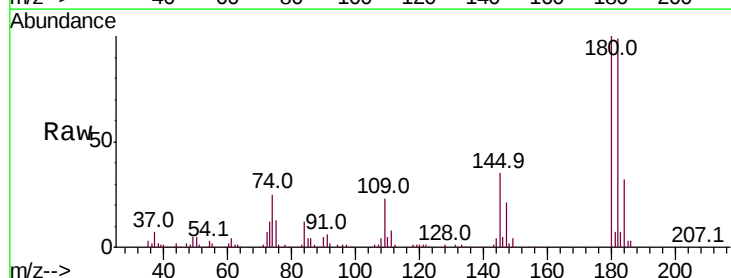
Tgt Ion:180 Resp: 163332

Ion Ratio Lower Upper

180 100

182 99.1 47.9 143.8

145 34.6 18.6 55.8



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

