

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022119\
 Data File : VF061693.D
 Acq On : 21 Feb 2019 12:33
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: Feb 22 03:26:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	354430	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	495937	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	423454	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	232728	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	130305	50.13	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	100.26%	
35) Dibromofluoromethane	4.11	113	195181	53.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.00%	
50) Toluene-d8	7.56	98	582055	54.98	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.96%	
62) 4-Bromofluorobenzene	11.41	95	221801	51.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	183371	45.052	ug/l	98
3) Chloromethane	1.10	50	188641	44.172	ug/l	97
4) Vinyl Chloride	1.14	62	186150	46.888	ug/l	98
5) Bromomethane	1.34	94	131386	48.085	ug/l	98
6) Chloroethane	1.39	64	91124	46.575	ug/l	92
7) Trichlorofluoromethane	1.48	101	227349	47.479	ug/l	98
8) Diethyl Ether	1.63	74	50494	41.844	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	160255	46.392	ug/l	95
10) Methyl Iodide	1.91	142	243423	36.890	ug/l	99
11) Tert butyl alcohol	2.58	59	32860	218.457	ug/l	98
12) 1,1-Dichloroethene	1.80	96	148987	49.055	ug/l	97
13) Acrolein	2.00	56	45340	239.831	ug/l	98
14) Allyl chloride	2.09	41	174585	46.845	ug/l	97
15) Acrylonitrile	2.94	53	109863	205.913	ug/l	94
16) Acetone	2.24	43	136031	243.937	ug/l	95
17) Carbon Disulfide	1.83	76	326501	34.201	ug/l	97
18) Methyl Acetate	2.35	43	53967	42.959	ug/l	100
19) Methyl tert-butyl Ether	2.44	73	243336	46.881	ug/l	99
20) Methylene Chloride	2.18	84	53530	16.211	ug/l	98
21) trans-1,2-Dichloroethene	2.31	96	145158	43.966	ug/l	97
22) Diisopropyl ether	2.80	45	415245	46.416	ug/l	100
23) Vinyl Acetate	3.19	43	944920	216.253	ug/l	99
24) 1,1-Dichloroethane	2.87	63	254231	46.959	ug/l	99
25) 2-Butanone	4.34	43	275632	226.284	ug/l	96
26) 2,2-Dichloropropane	3.60	77	126591	55.203	ug/l	98
27) cis-1,2-Dichloroethene	3.48	96	194111	44.792	ug/l	97
28) Bromochloromethane	3.72	49	120837	46.518	ug/l	100
29) Tetrahydrofuran	4.07	42	112777	203.706	ug/l	97
30) Chloroform	3.86	83	282383	45.865	ug/l	93
31) Cyclohexane	3.69	56	273339	46.639	ug/l	93
32) 1,1,1-Trichloroethane	4.10	97	206717	51.255	ug/l	99
36) 1,1-Dichloropropene	4.28	75	248507	50.583	ug/l	95
37) Ethyl Acetate	4.11	43	98883	43.334	ug/l #	82
38) Carbon Tetrachloride	3.99	117	174163	51.339	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	305118	52.514	ug/l	97
40) Benzene	4.64	78	644915	50.186	ug/l	100
41) Methacrylonitrile	4.75	41	51177	43.855	ug/l	98
42) 1,2-Dichloroethane	4.94	62	154455	50.248	ug/l	96
43) Isopropyl Acetate	6.96	43	119892	44.387	ug/l #	95
44) Trichloroethene	5.50	130	194148	46.720	ug/l	98
45) 1,2-Dichloropropane	6.23	63	156344	50.333	ug/l	92
46) Dibromomethane	6.09	93	92016	48.113	ug/l	96
47) Bromodichloromethane	6.38	83	205502	49.068	ug/l	99
48) Methyl methacrylate	6.72	41	76824	47.263	ug/l	93
49) 1,4-Dioxane	6.71	88	13393	876.492	ug/l	95
51) 4-Methyl-2-Pentanone	8.26	43	412092	213.520	ug/l	100
52) Toluene	7.62	92	367544	47.160	ug/l	98
53) t-1,3-Dichloropropene	8.29	75	176325	50.586	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	240655	51.834	ug/l	94
55) 1,1,2-Trichloroethane	8.49	97	109261	47.716	ug/l	94
56) Ethyl methacrylate	8.62	69	120285	47.182	ug/l	99
57) 1,3-Dichloropropane	8.86	76	187289	49.003	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	95206	216.445	ug/l	100
59) 2-Hexanone	9.50	43	301547	222.894	ug/l	99
60) Dibromochloromethane	8.72	129	157944	49.557	ug/l	99
61) 1,2-Dibromoethane	8.99	107	114540	46.118	ug/l	99
64) Tetrachloroethene	8.16	164	184248	53.232	ug/l	99
65) Chlorobenzene	9.80	112	431246	50.187	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	171853	51.039	ug/l	95
67) Ethyl Benzene	9.90	91	745306	52.156	ug/l	97
68) m/p-Xylenes	10.13	106	570331	104.286	ug/l	96
69) o-Xylene	10.71	106	303537	52.015	ug/l	98
70) Styrene	10.79	104	409297	49.579	ug/l	98
71) Bromoform	10.77	173	85186	46.590	ug/l	98
73) Isopropylbenzene	11.12	105	812135	49.013	ug/l	99
74) N-amyl acetate	11.37	43	183076	46.032	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.70	83	131221	44.204	ug/l	97
76) 1,2,3-Trichloropropane	11.80	75	87232	43.221	ug/l	98
77) Bromobenzene	11.50	156	201981	49.342	ug/l	97
78) n-propylbenzene	11.60	91	944111	49.653	ug/l	97
79) 2-Chlorotoluene	11.72	91	537844	50.507	ug/l	94
80) 1,3,5-Trimethylbenzene	11.83	105	674762	50.951	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	57604	59.534	ug/l	91
82) 4-Chlorotoluene	11.90	91	531593	48.095	ug/l	97
83) tert-Butylbenzene	12.13	119	741355	50.541	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	654444	49.741	ug/l	97
85) sec-Butylbenzene	12.31	105	952164	50.197	ug/l	99
86) p-Isopropyltoluene	12.46	119	814227	51.148	ug/l	100
87) 1,3-Dichlorobenzene	12.48	146	379788	47.591	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	368152	47.969	ug/l	99
89) n-Butylbenzene	12.84	91	765612	50.932	ug/l	96
90) Hexachloroethane	12.92	117	197168	53.255	ug/l	95
91) 1,2-Dichlorobenzene	12.94	146	360713	47.522	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	20921	44.451	ug/l	94

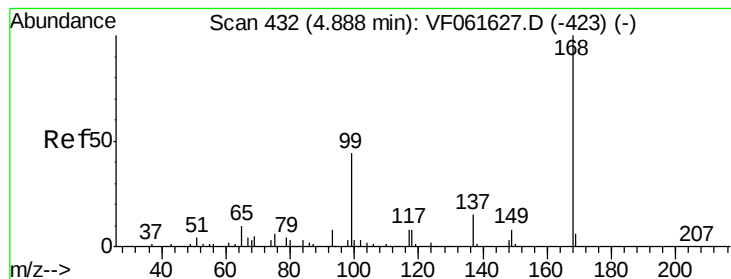
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	263508	48.433	ug/l	98
94) Hexachlorobutadiene	14.19	225	178601	53.152	ug/l	99
95) Naphthalene	14.46	128	442977	46.535	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	244058	48.873	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

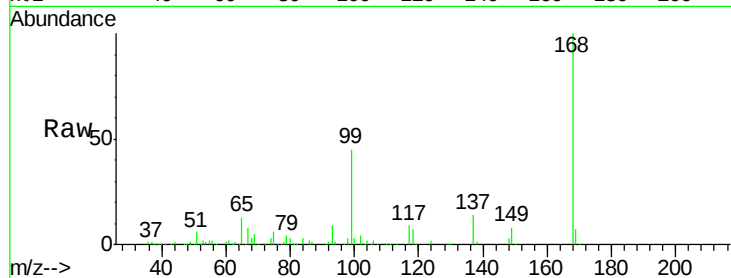
VSTDCCC050

Tot Ion:168 Resp: 354430

Ion Ratio Lower Upper

168 100

99 45.3 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

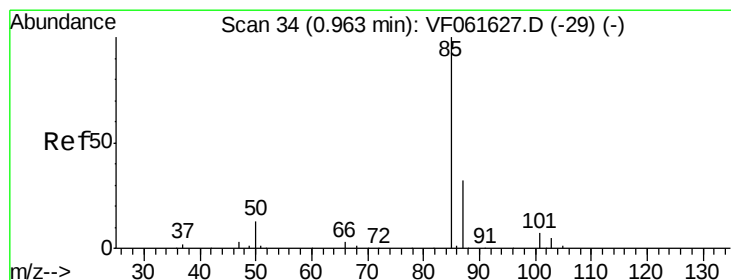
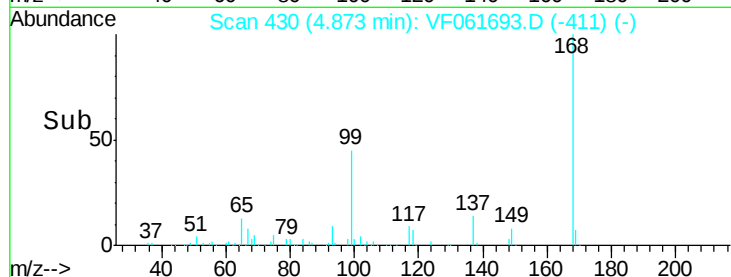
4.87

100000

50000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 45.052 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061693.D

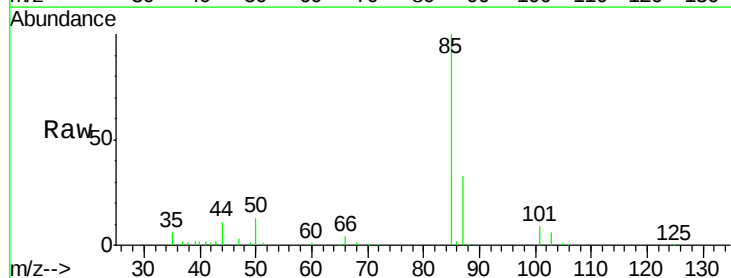
Acq: 21 Feb 2019 12:33

Tgt Ion: 85 Resp: 183371

Ion Ratio Lower Upper

85 100

87 32.9 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

60000

50000

40000

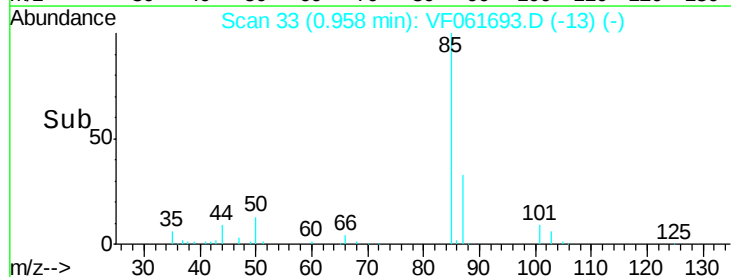
30000

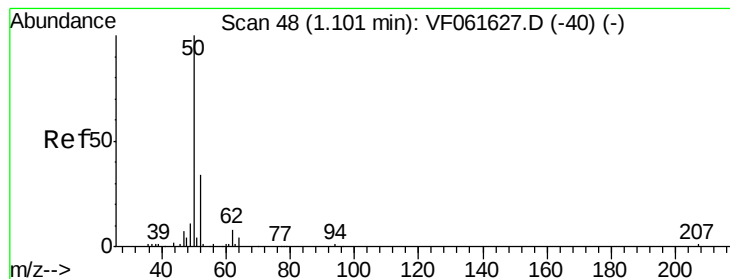
20000

10000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 44.172 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

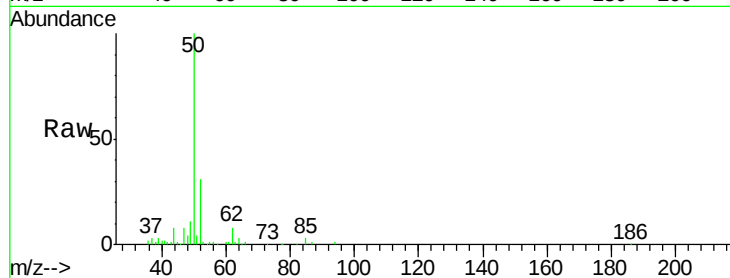
VSTDCCC050

Tot Ion: 50 Resp: 188641

Ion Ratio Lower Upper

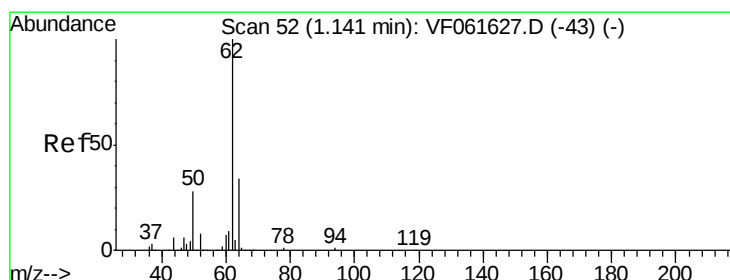
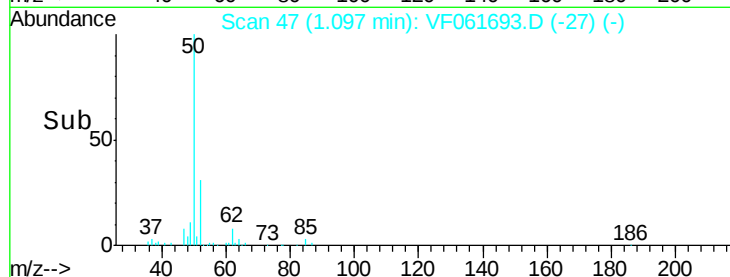
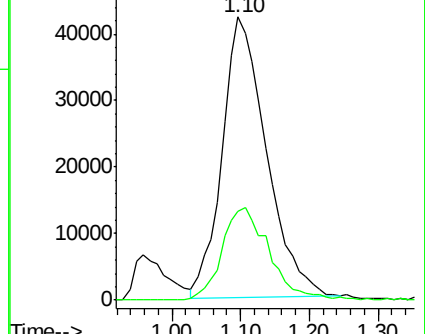
50 100

52 31.2 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 46.888 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061693.D

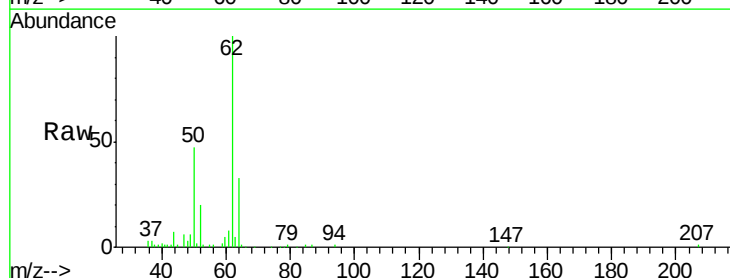
Acq: 21 Feb 2019 12:33

Tgt Ion: 62 Resp: 186150

Ion Ratio Lower Upper

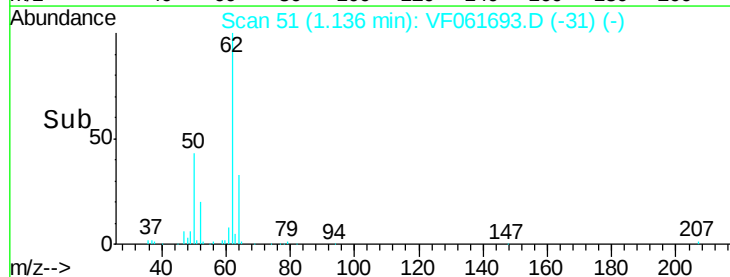
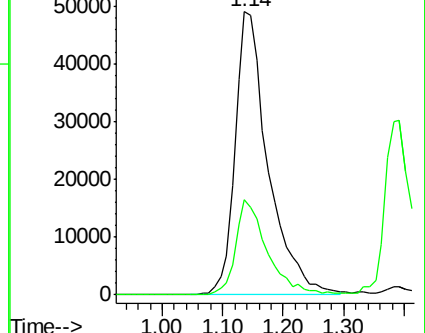
62 100

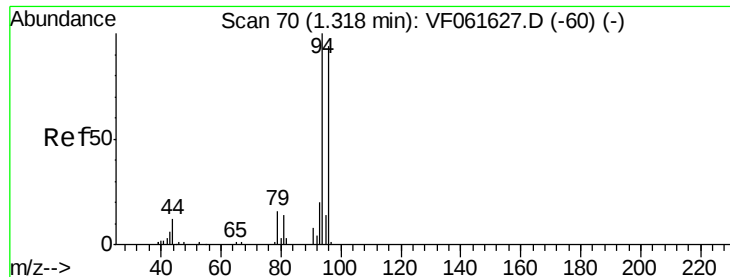
64 33.5 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 48.085 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

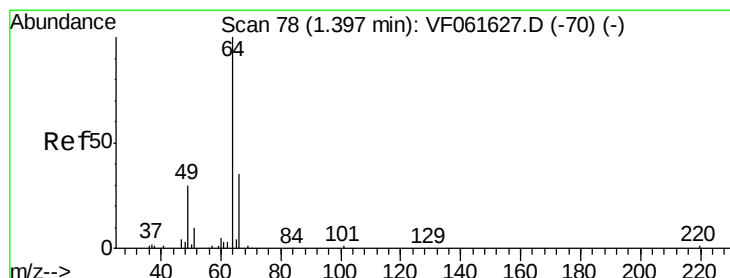
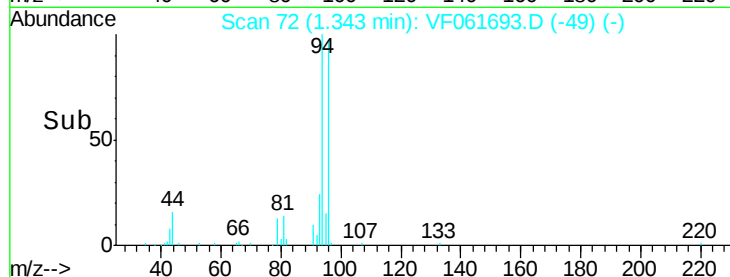
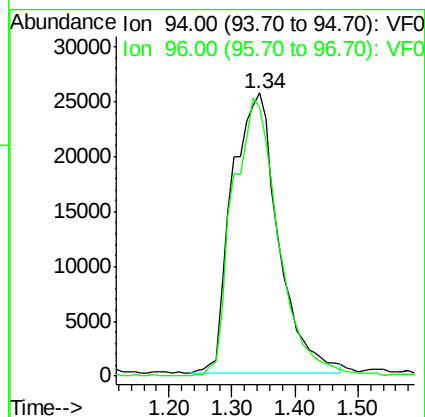
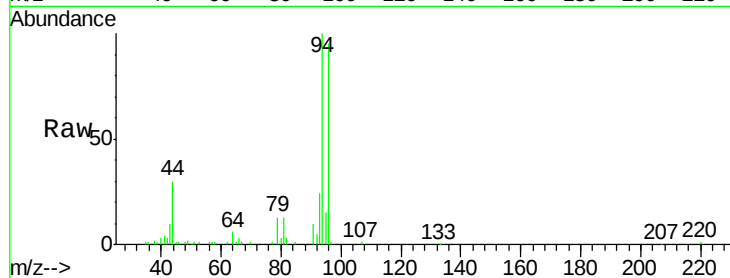
VSTDCCC050

Tot Ion: 94 Resp: 131386

Ion Ratio Lower Upper

94 100

96 95.1 74.6 112.0



#6

Chloroethane

Concen: 46.575 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061693.D

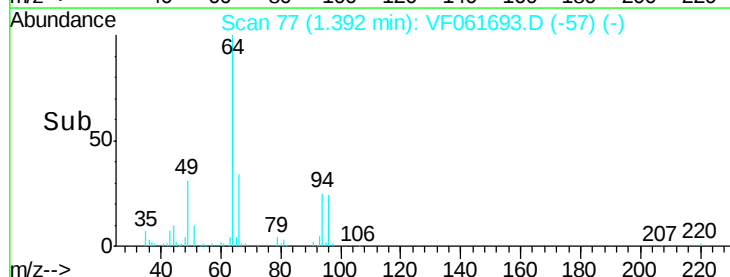
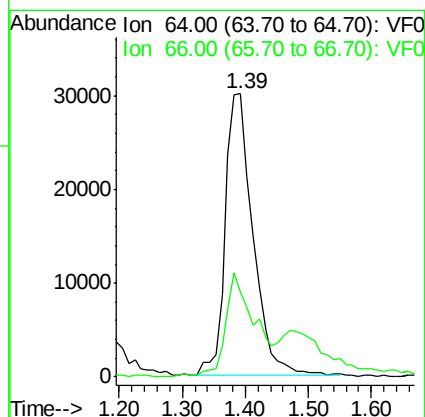
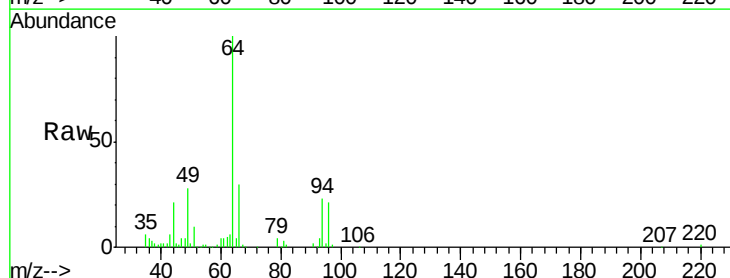
Acq: 21 Feb 2019 12:33

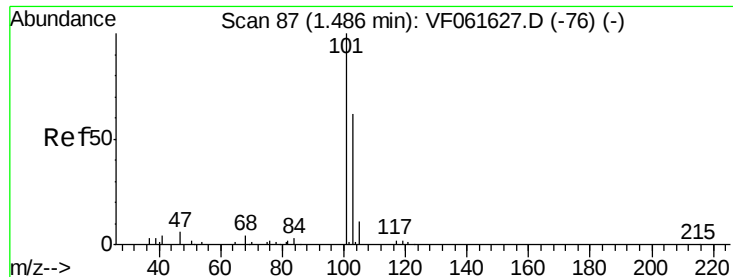
Tgt Ion: 64 Resp: 91124

Ion Ratio Lower Upper

64 100

66 30.2 27.9 41.9





#7

Trichlorofluoromethane

Concen: 47.479 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

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ClientSampleId :

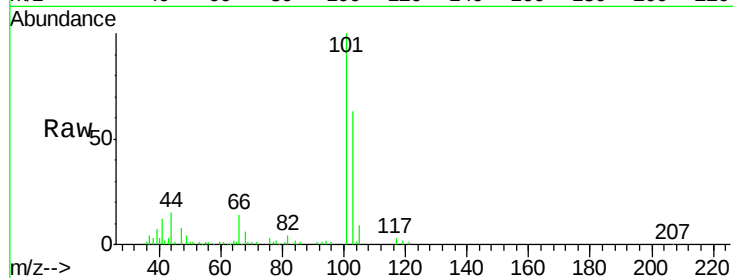
VSTDCCC050

Tot Ion:101 Resp: 227349

Ion Ratio Lower Upper

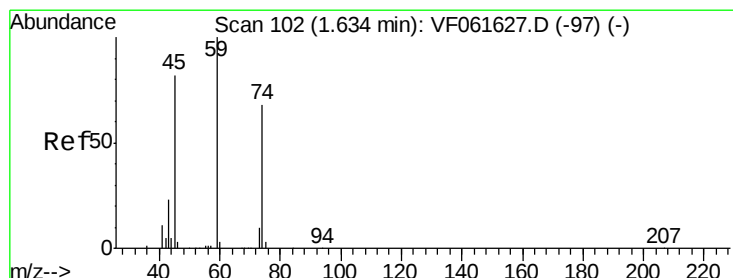
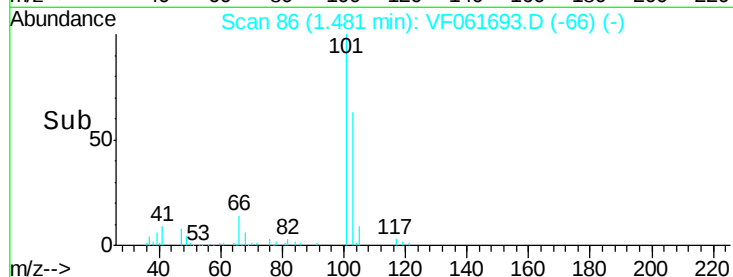
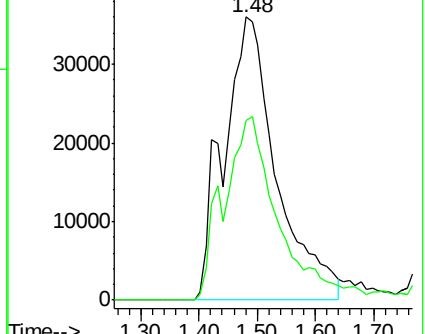
101 100

103 63.3 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 41.844 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061693.D

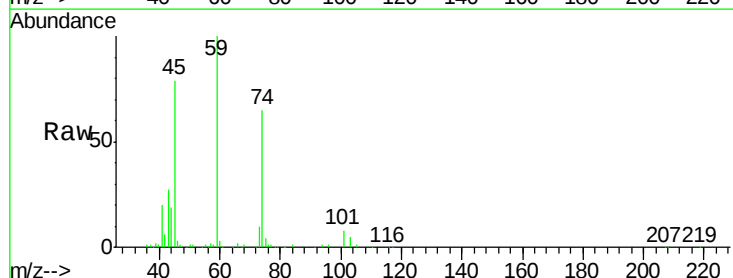
Acq: 21 Feb 2019 12:33

Tgt Ion: 74 Resp: 50494

Ion Ratio Lower Upper

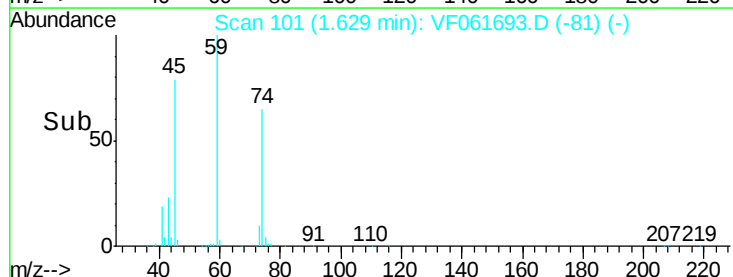
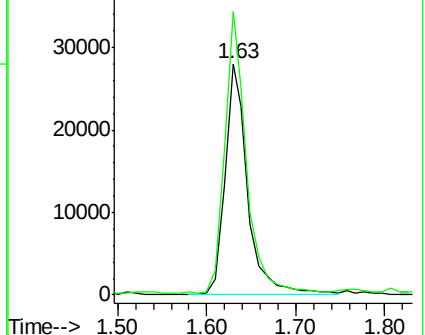
74 100

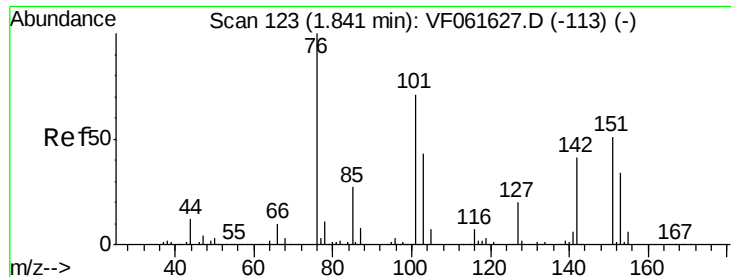
45 122.4 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.392 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

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VSTDCCC050

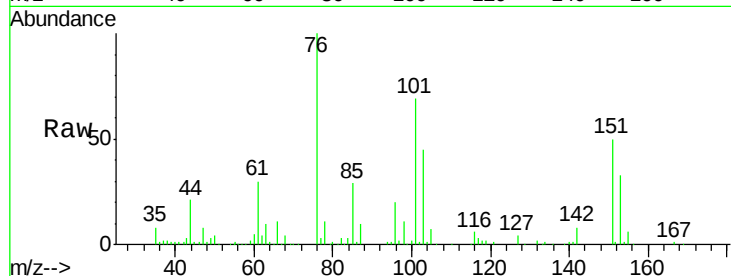
Tot Ion:101 Resp: 160255

Ion Ratio Lower Upper

101 100

85 42.0 29.8 44.6

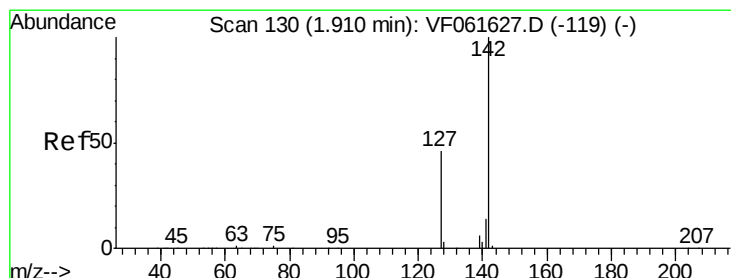
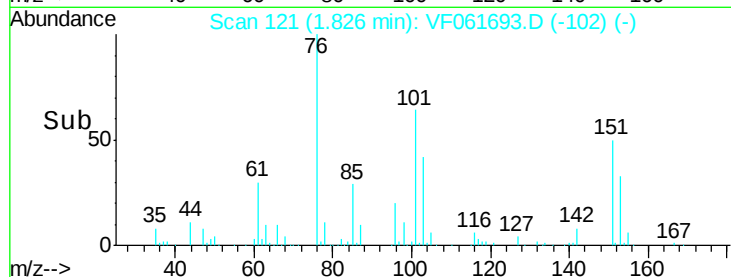
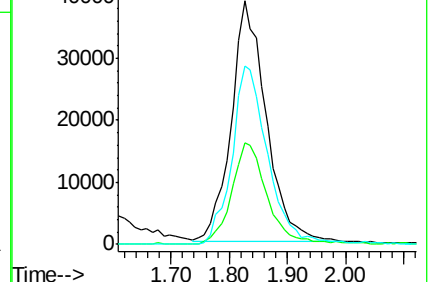
151 73.3 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 36.890 ug/l

RT: 1.91 min Scan# 129

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

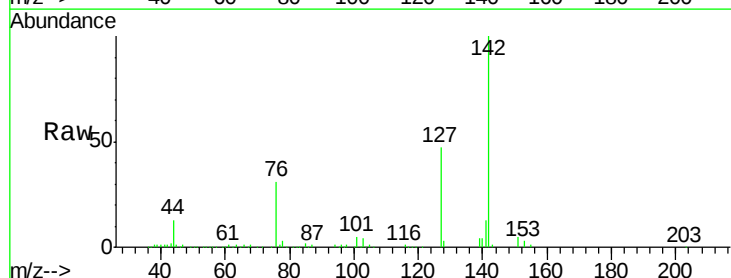
Tgt Ion:142 Resp: 243423

Ion Ratio Lower Upper

142 100

127 46.8 36.6 55.0

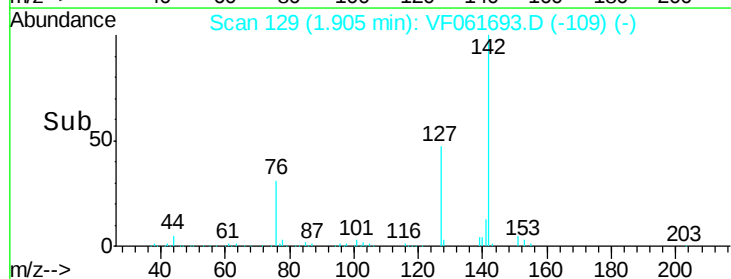
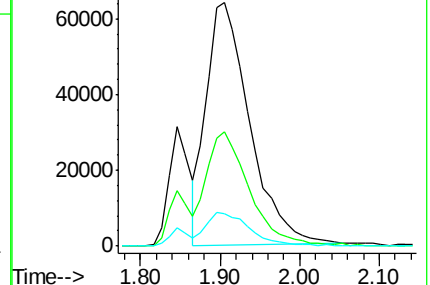
141 13.4 11.0 16.6

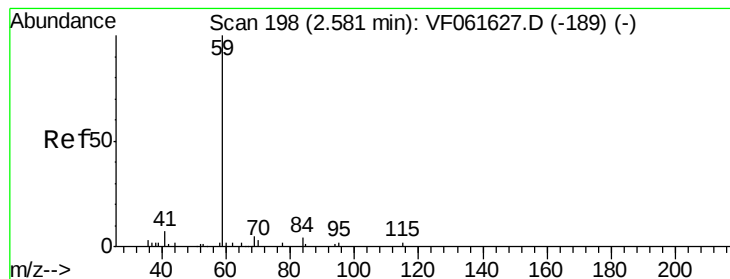


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



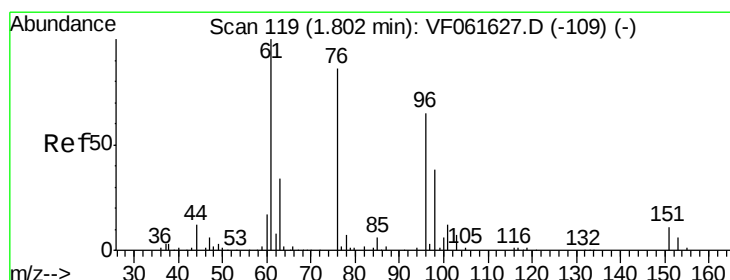
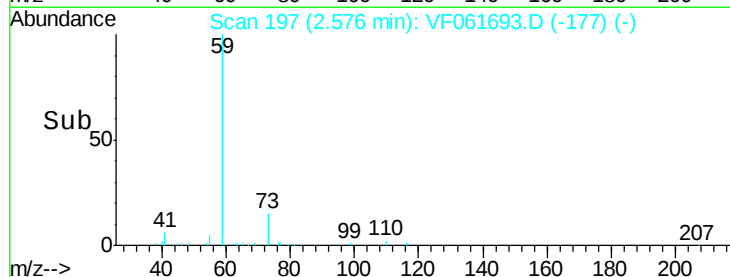
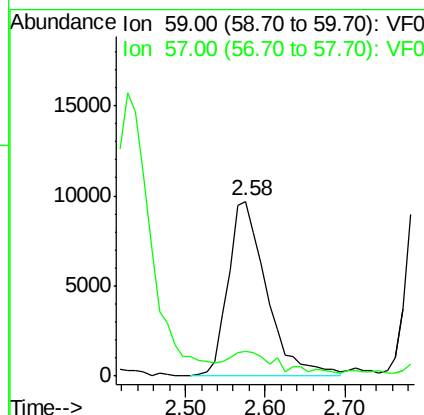
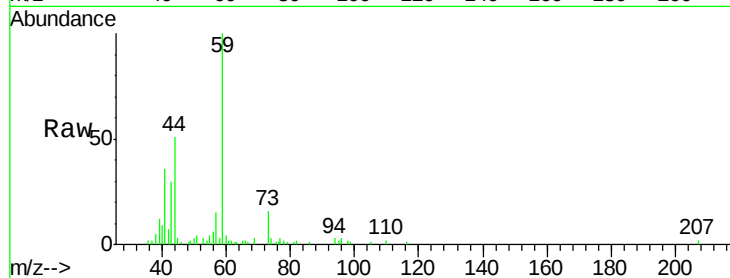


#11

Tert butyl alcohol
Concen: 218.457 ug/l
RT: 2.58 min Scan# 197
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

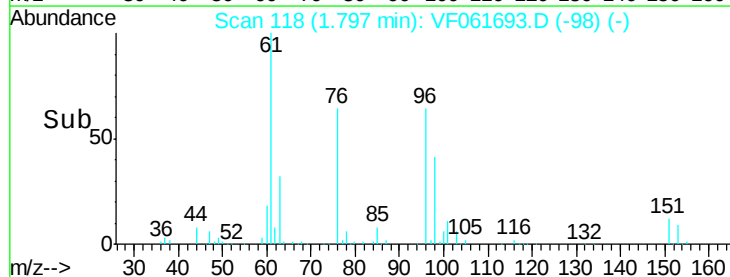
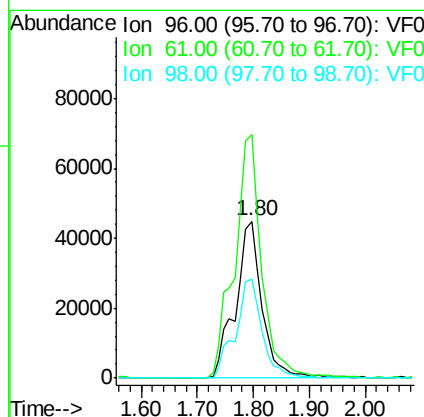
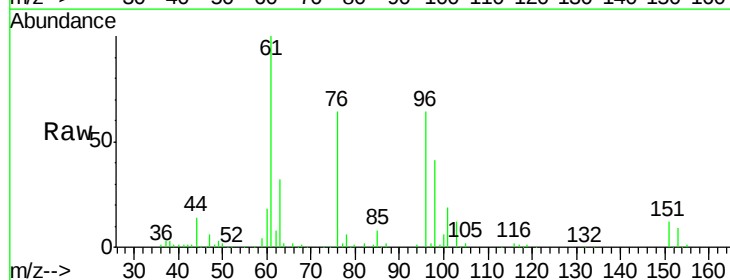
Tot Ion: 59 Resp: 32860
Ion Ratio Lower Upper
59 100
57 14.6 12.5 18.7

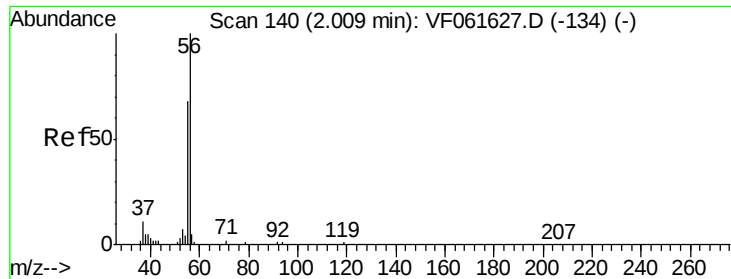


#12

1,1-Dichloroethene
Concen: 49.055 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 96 Resp: 148987
Ion Ratio Lower Upper
96 100
61 155.5 122.6 184.0
98 63.4 47.2 70.8

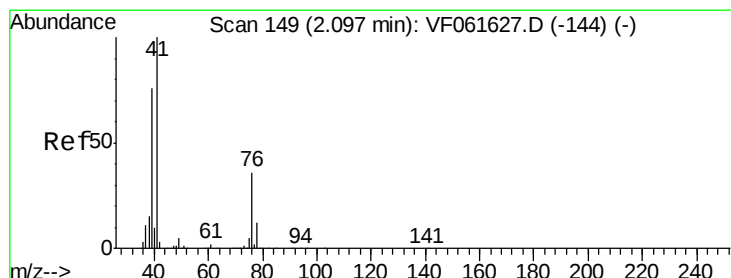
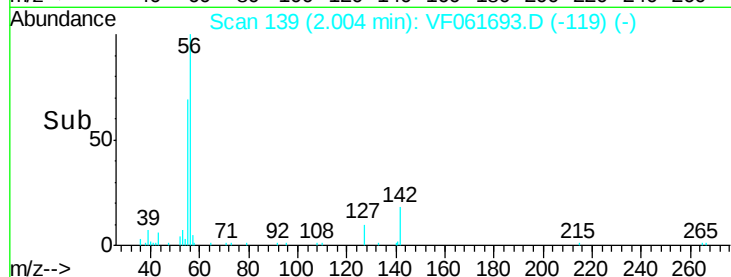
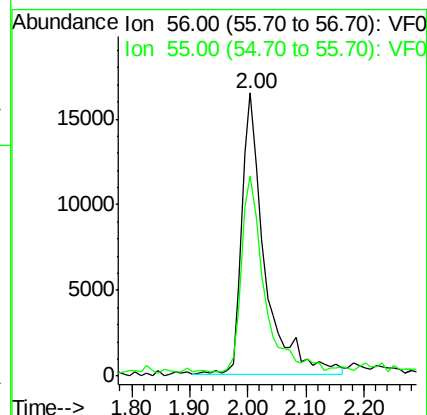
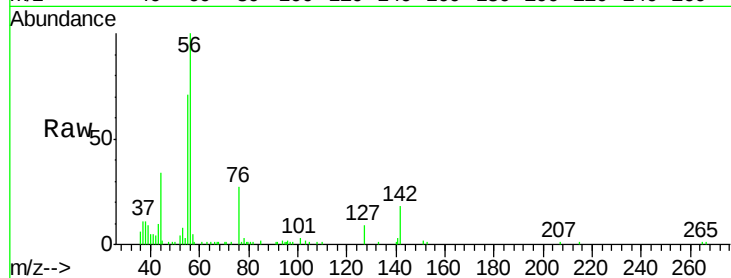




#13
Acrolein
Concen: 239.831 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

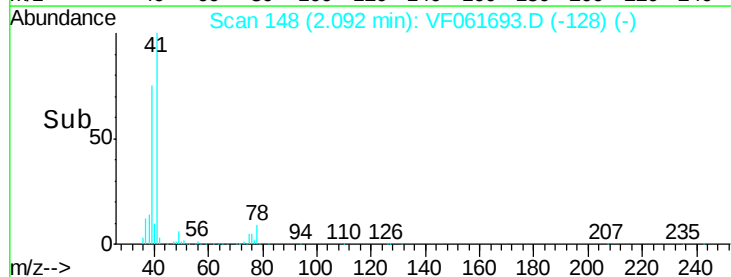
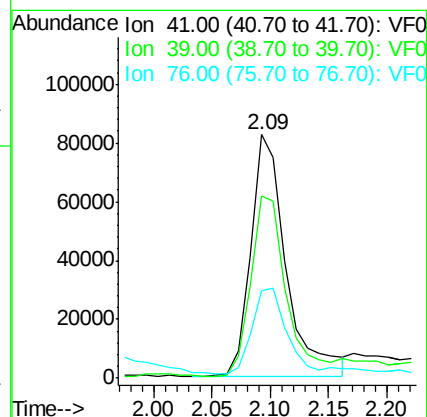
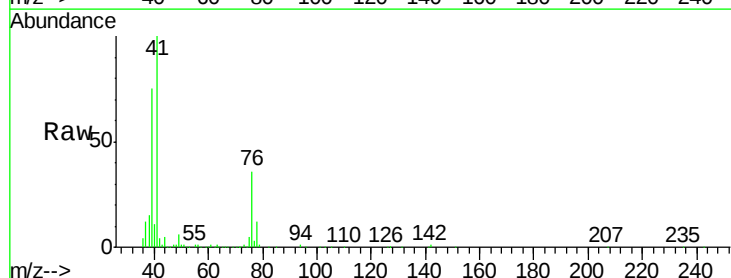
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

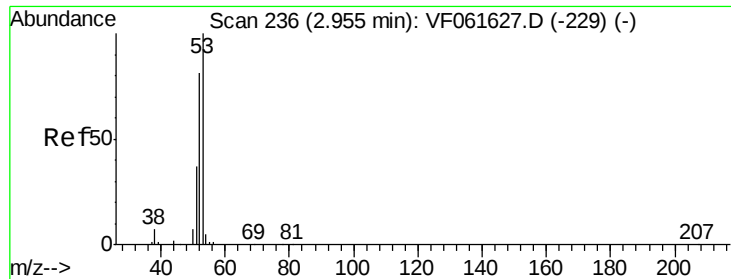
Tot Ion: 56 Resp: 45340
Ion Ratio Lower Upper
56 100
55 70.5 55.0 82.6



#14
Allyl chloride
Concen: 46.845 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 41 Resp: 174585
Ion Ratio Lower Upper
41 100
39 74.9 61.6 92.4
76 35.7 30.3 45.5





#15

Acrylonitrile

Concen: 205.913 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

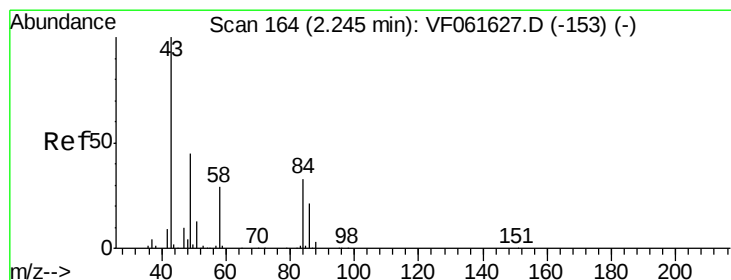
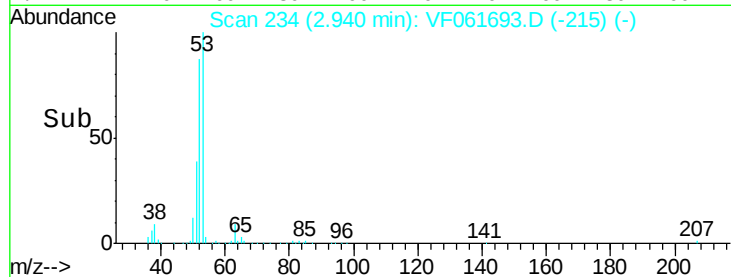
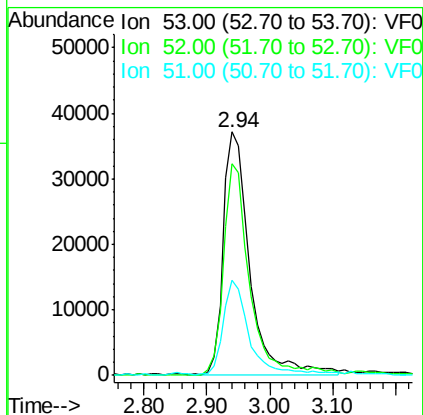
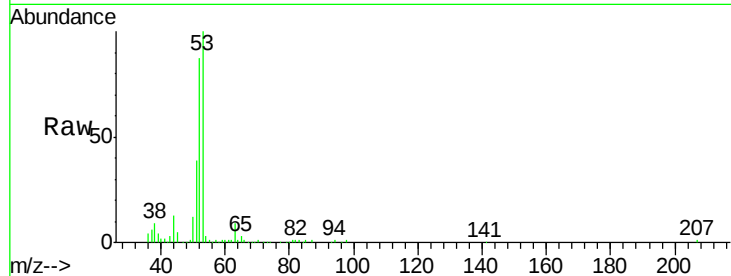
Tot Ion: 53 Resp: 109863

Ion Ratio Lower Upper

53 100

52 87.1 64.6 97.0

51 39.2 29.8 44.8



#16

Acetone

Concen: 243.937 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061693.D

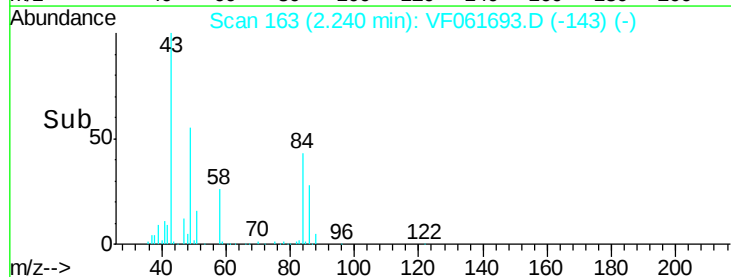
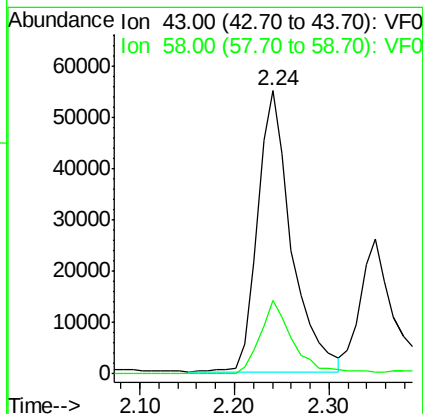
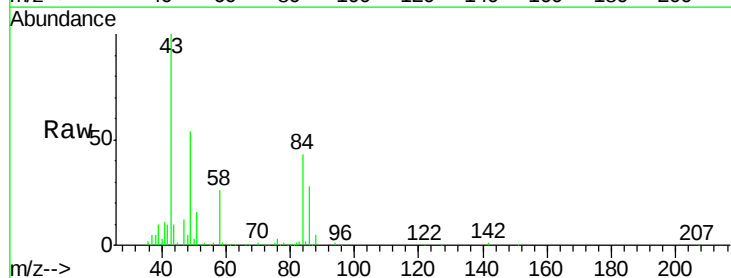
Acq: 21 Feb 2019 12:33

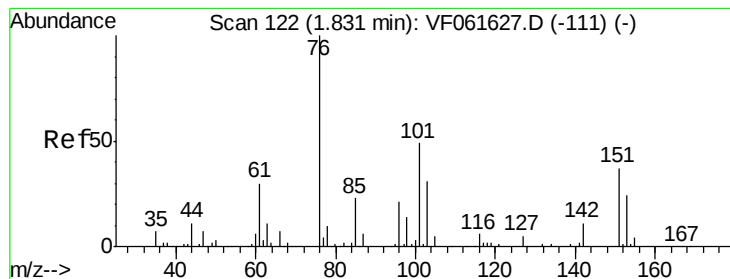
Tgt Ion: 43 Resp: 136031

Ion Ratio Lower Upper

43 100

58 25.9 22.9 34.3





#17

Carbon Disulfide

Concen: 34.201 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

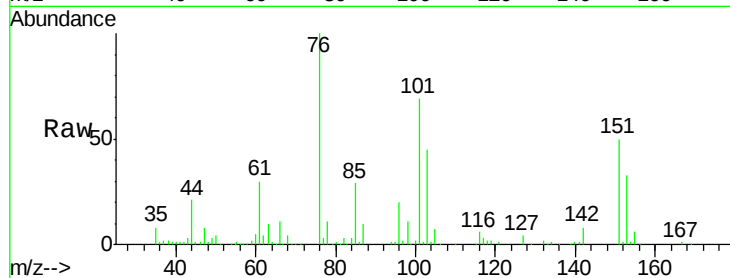
VSTDCCC050

Tot Ion: 76 Resp: 326501

Ion Ratio Lower Upper

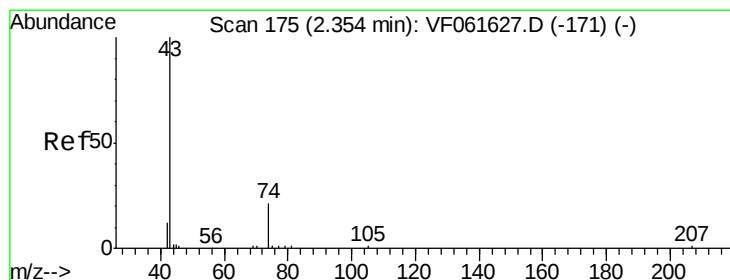
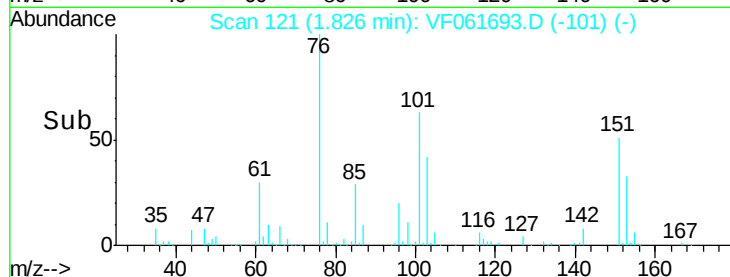
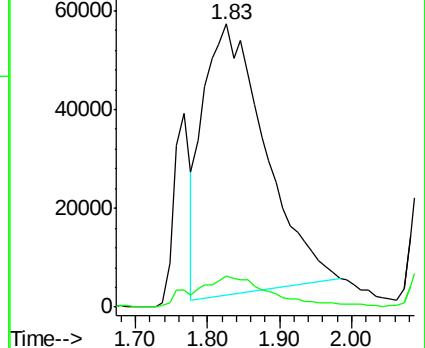
76 100

78 11.0 7.9 11.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 42.959 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.00 min

Lab File: VF061693.D

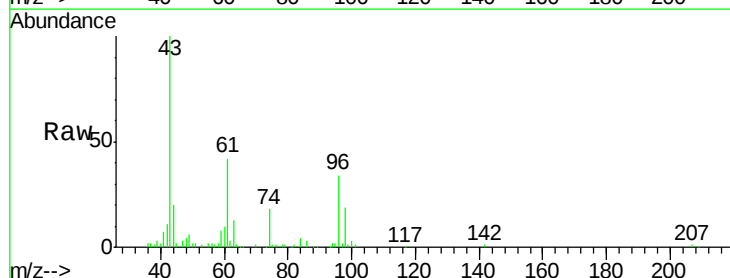
Acq: 21 Feb 2019 12:33

Tgt Ion: 43 Resp: 53967

Ion Ratio Lower Upper

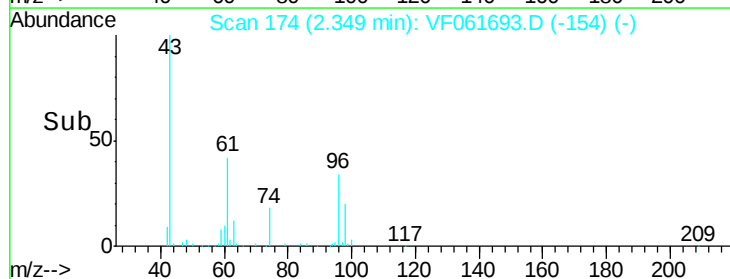
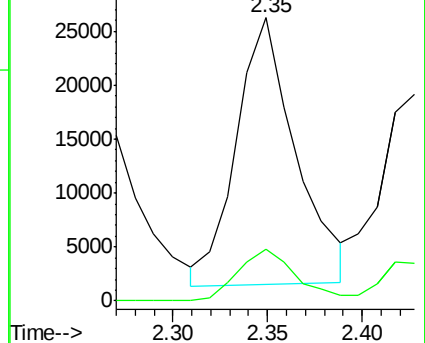
43 100

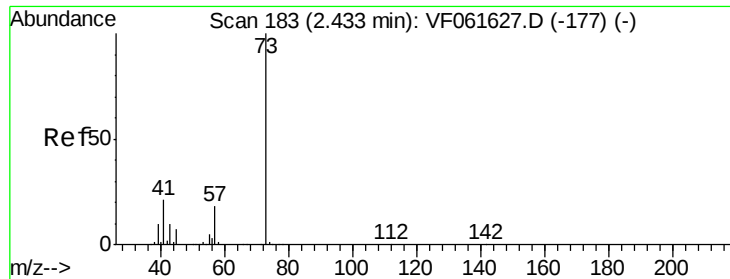
74 18.1 14.6 21.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

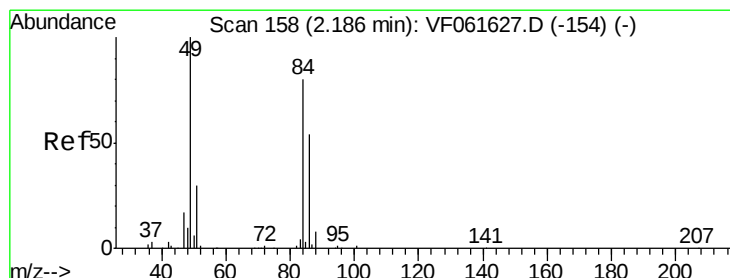
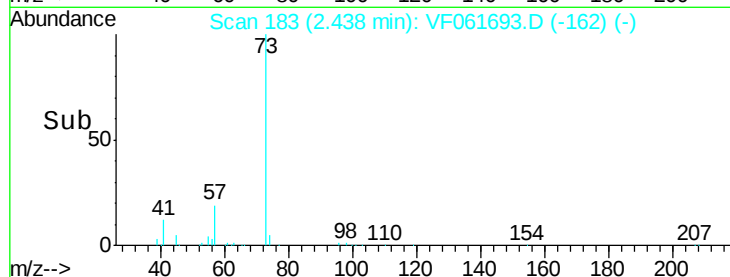
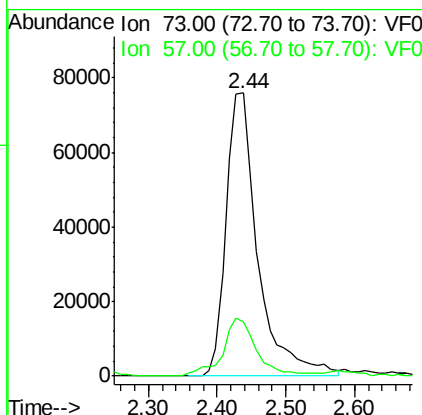
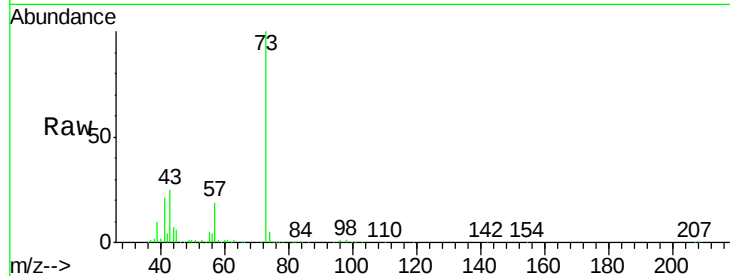




#19
Methvl tert-butvl Ether
Concen: 46.881 ug/l
RT: 2.44 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

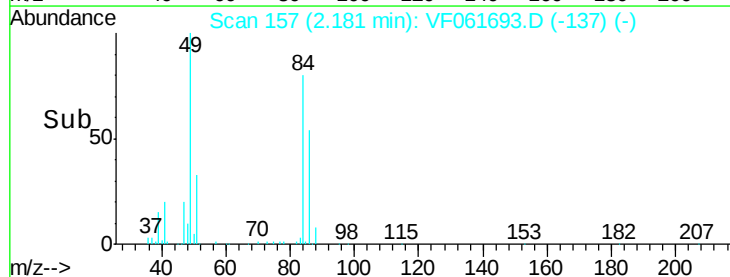
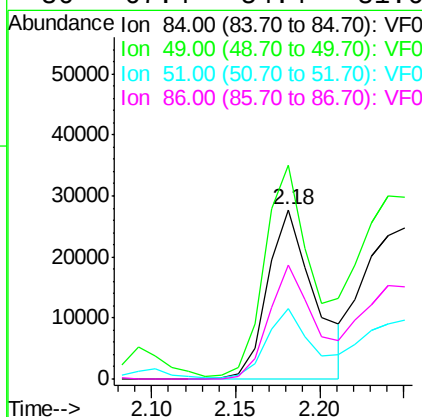
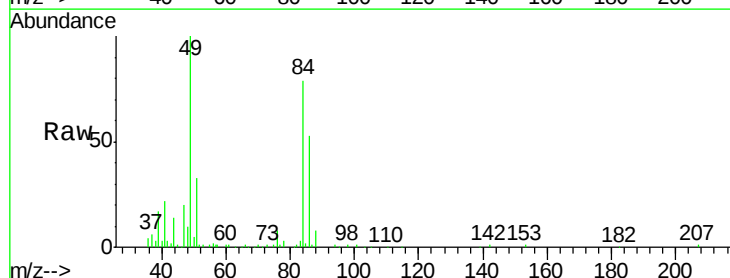
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

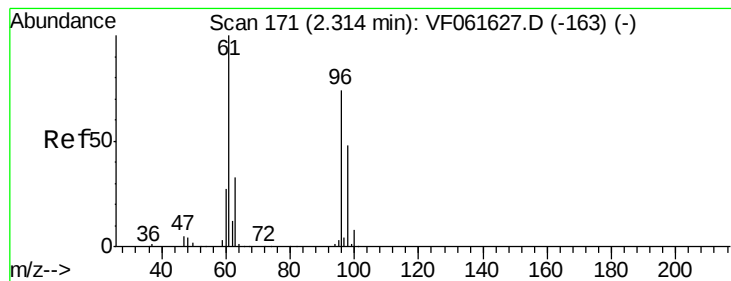
Tot Ion: 73 Resp: 243336
Ion Ratio Lower Upper
73 100
57 19.2 15.8 23.8



#20
Methylene Chloride
Concen: 16.211 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 84 Resp: 53530
Ion Ratio Lower Upper
84 100
49 126.0 101.8 152.8
51 41.8 31.1 46.7
86 67.4 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 43.966 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

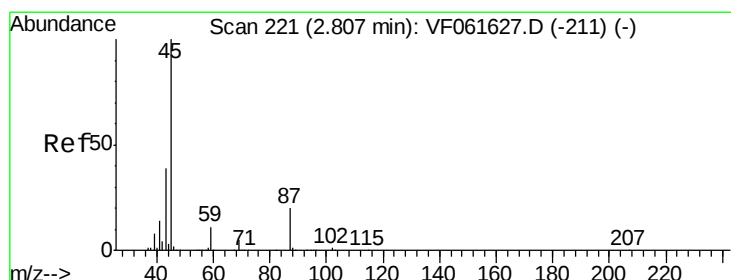
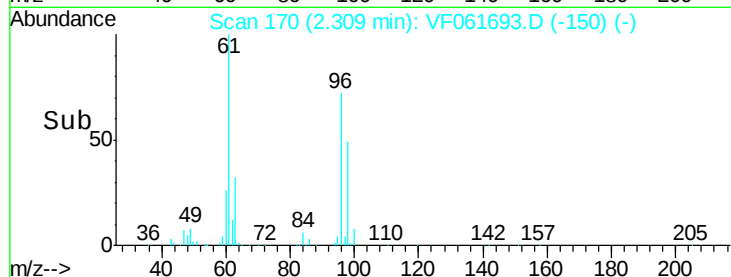
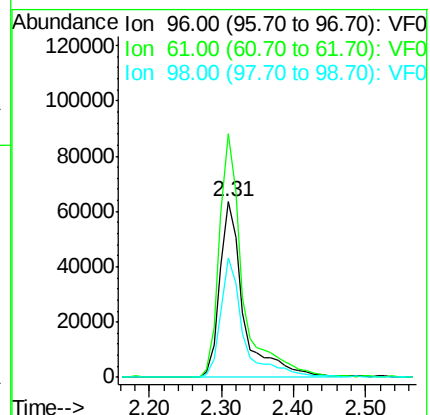
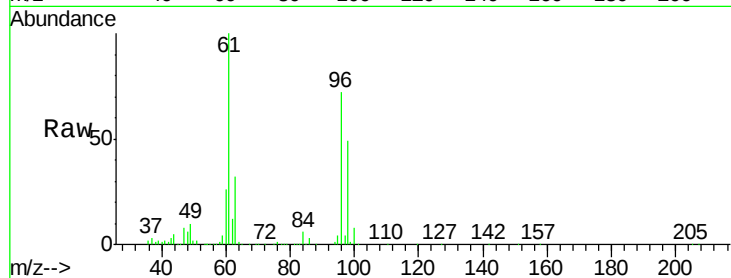
Tot Ion: 96 Resp: 145158

Ion Ratio Lower Upper

96 100

61 138.9 108.2 162.4

98 68.0 52.2 78.2



#22

Diisopropyl ether

Concen: 46.416 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion: 45 Resp: 415245

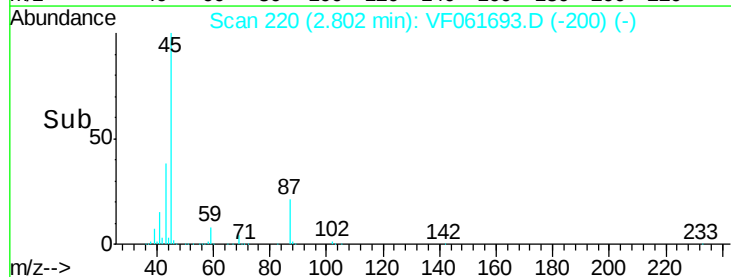
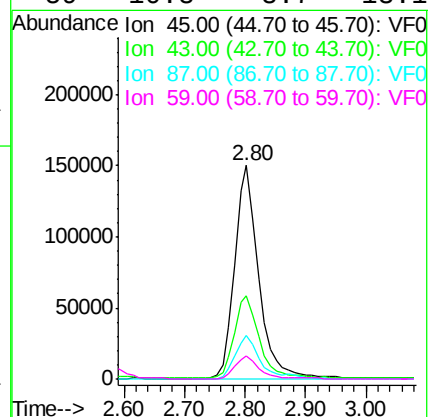
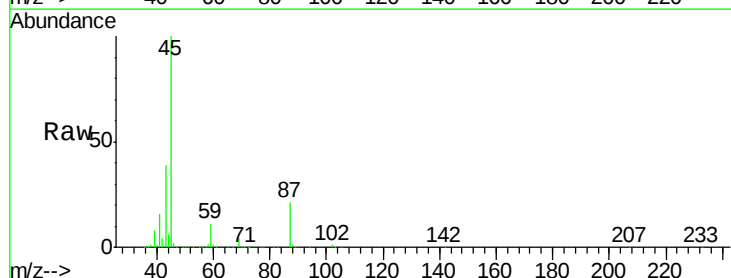
Ion Ratio Lower Upper

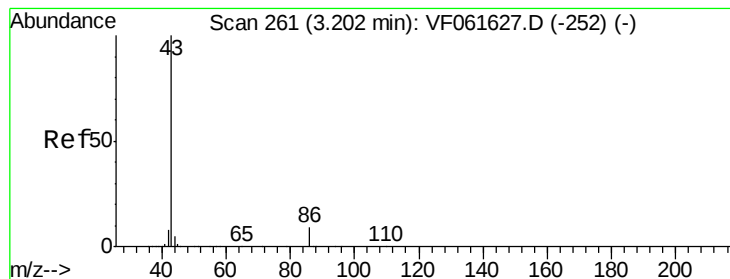
45 100

43 39.2 31.4 47.2

87 20.6 16.3 24.5

59 10.8 8.7 13.1





#23

Vinyl Acetate

Concen: 216.253 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

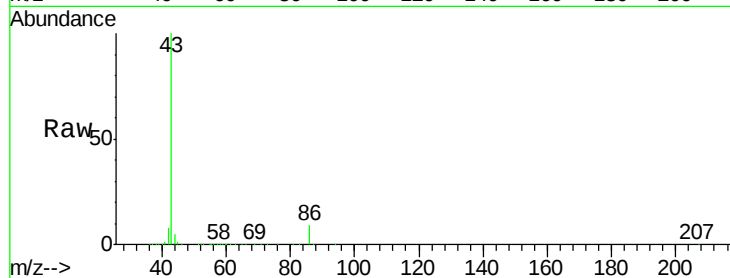
VSTDCCC050

Tot Ion: 43 Resp: 944920

Ion Ratio Lower Upper

43 100

86 9.0 7.5 11.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.19

400000

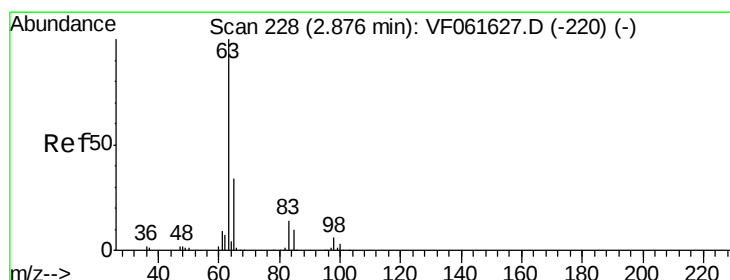
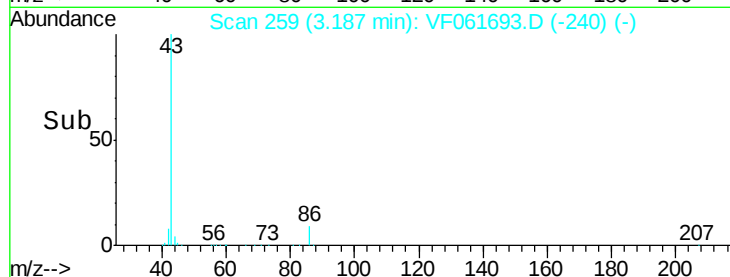
300000

200000

100000

0

Time--> 3.00 3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 46.959 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

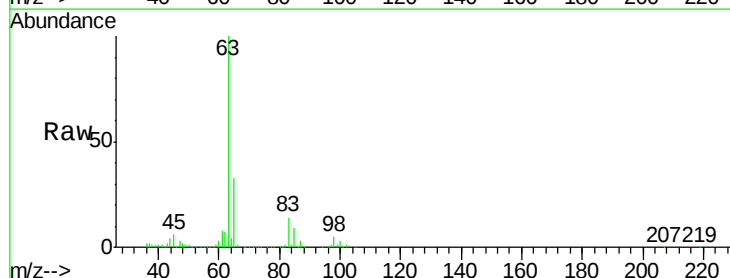
Tgt Ion: 63 Resp: 254231

Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.3

100 3.2 1.8 5.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

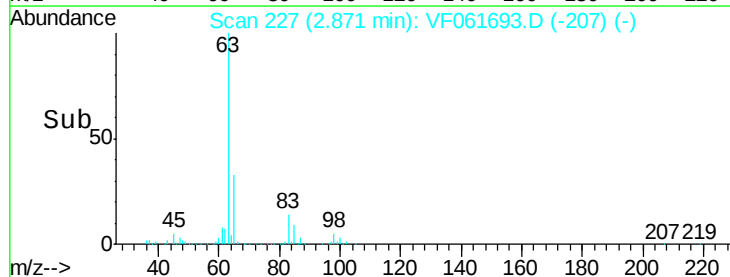
2.87

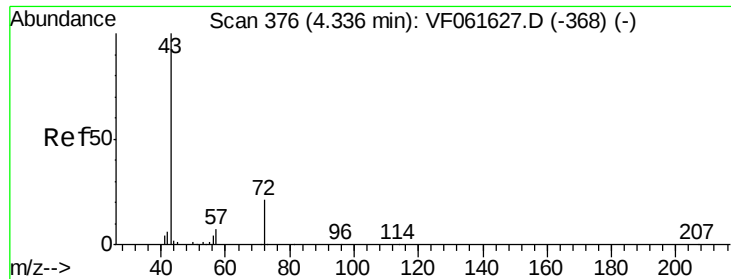
100000

50000

0

Time--> 2.80 2.90 3.00





#25

2-Butanone

Concen: 226.284 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

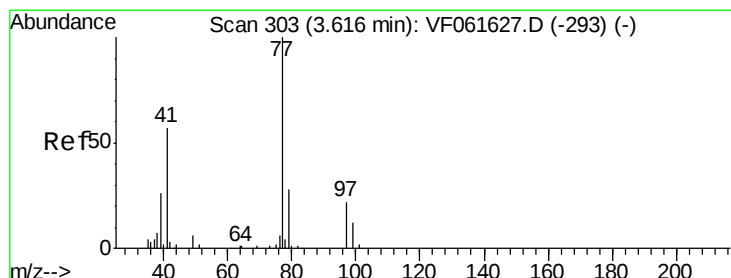
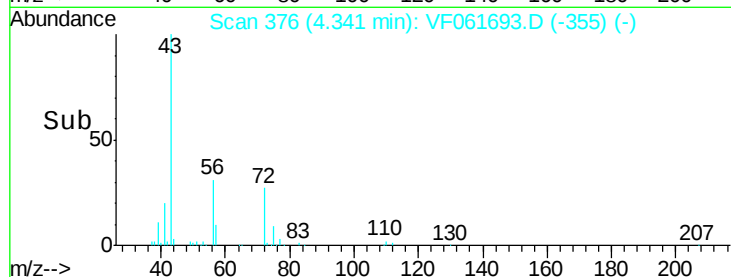
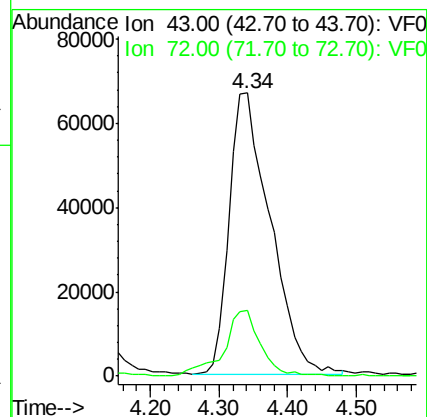
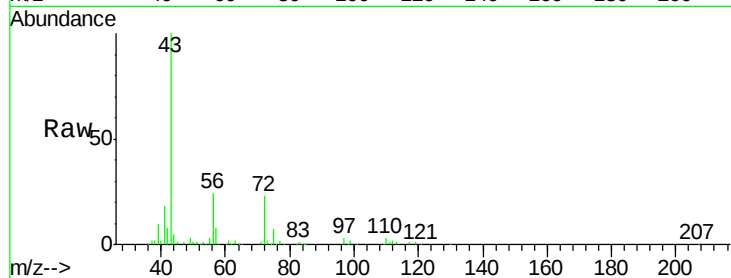
VSTDCCC050

Tot Ion: 43 Resp: 275632

Ion Ratio Lower Upper

43 100

72 23.2 17.1 25.7



#26

2,2-Dichloropropane

Concen: 55.203 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061693.D

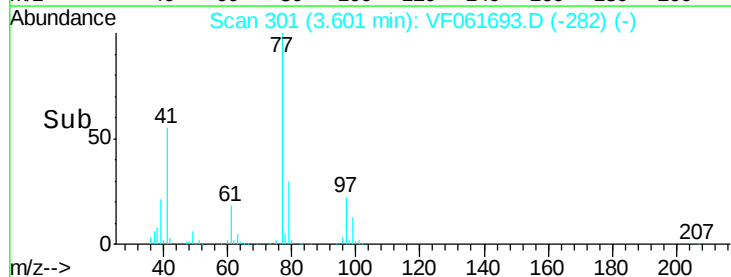
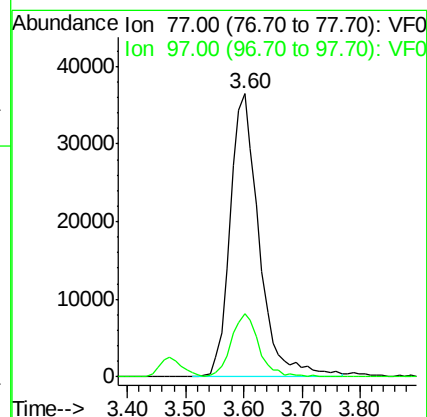
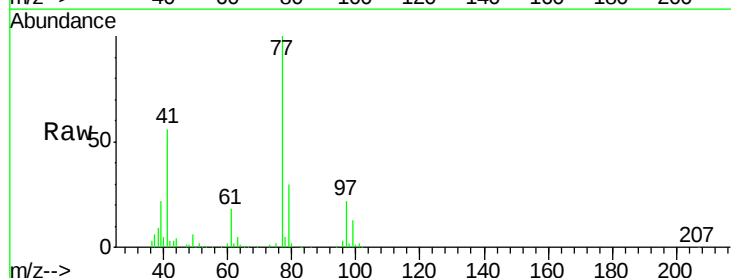
Acq: 21 Feb 2019 12:33

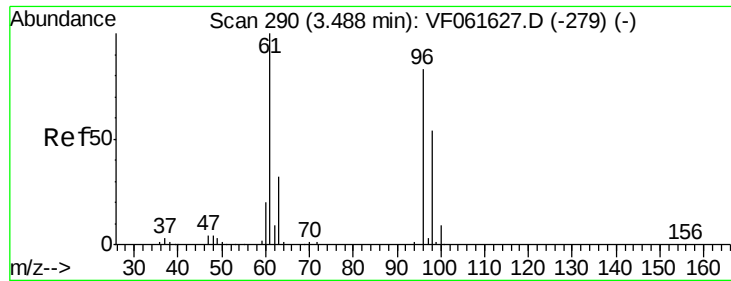
Tgt Ion: 77 Resp: 126591

Ion Ratio Lower Upper

77 100

97 22.2 11.7 35.0



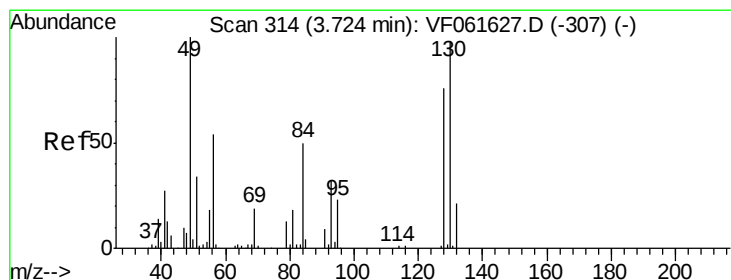
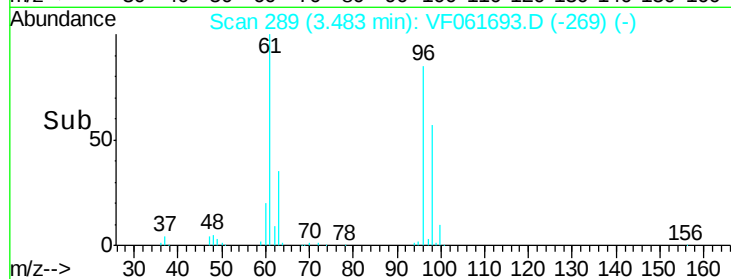
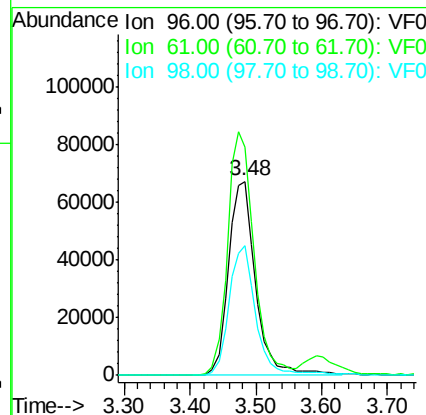
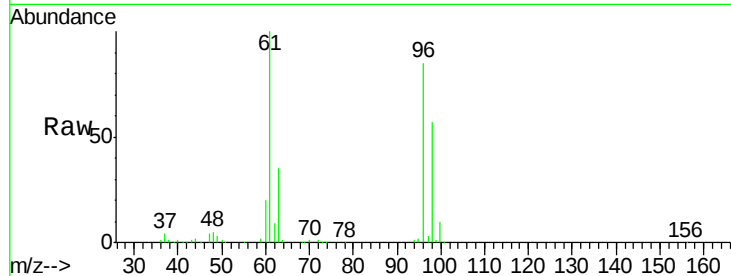


#27

cis-1,2-Dichloroethene
 Concen: 44.792 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

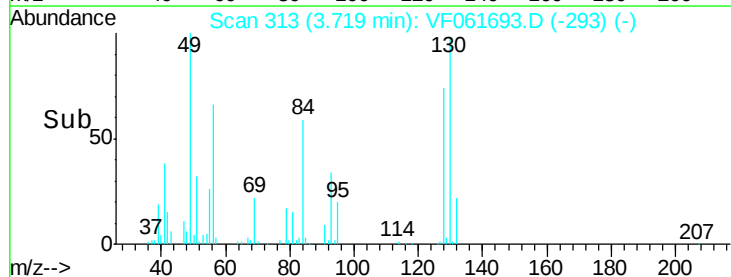
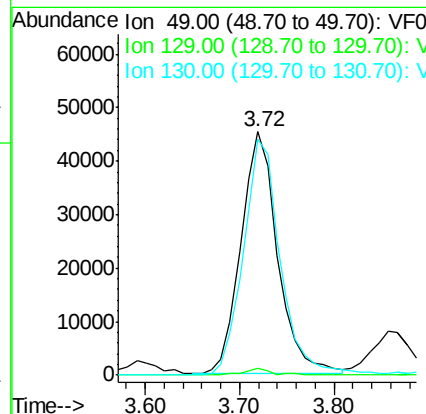
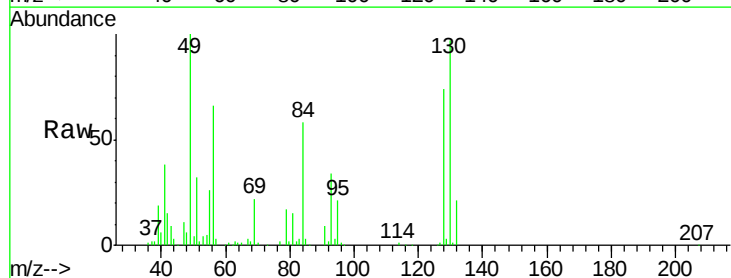
Tot Ion: 96 Resp: 194111
 Ion Ratio Lower Upper
 96 100
 61 117.4 0.0 241.6
 98 66.8 0.0 130.2

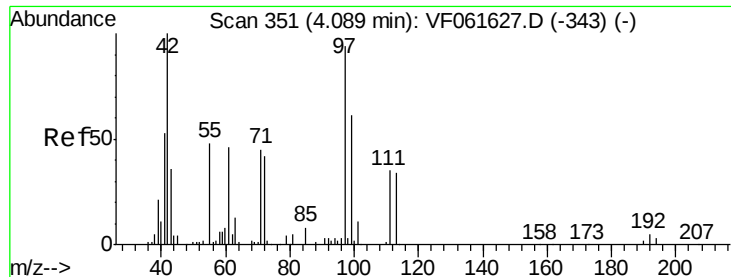


#28

Bromochloromethane
 Concen: 46.518 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion: 49 Resp: 120837
 Ion Ratio Lower Upper
 49 100
 129 2.8 0.0 3.4
 130 97.1 77.7 116.5

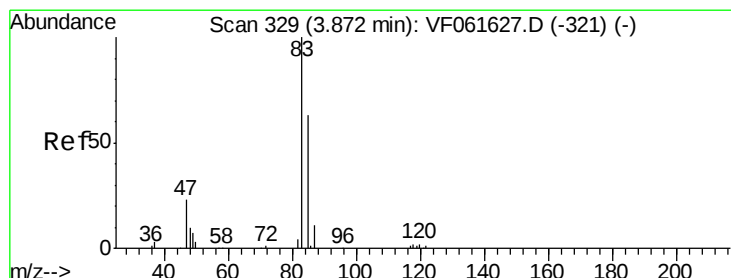
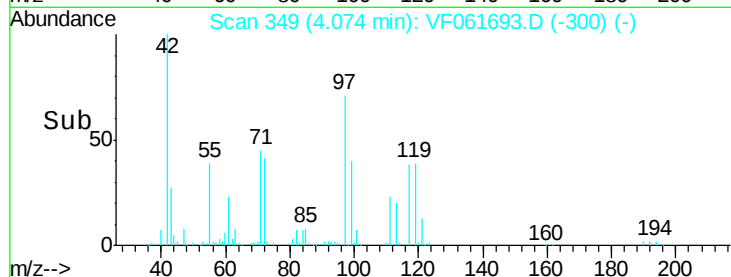
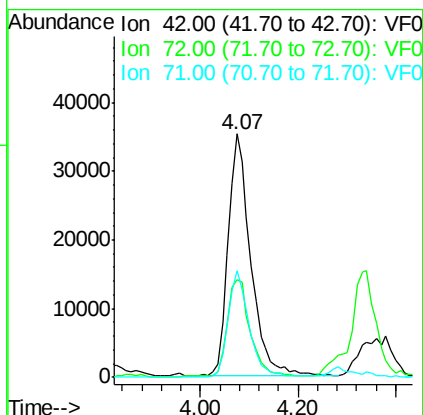
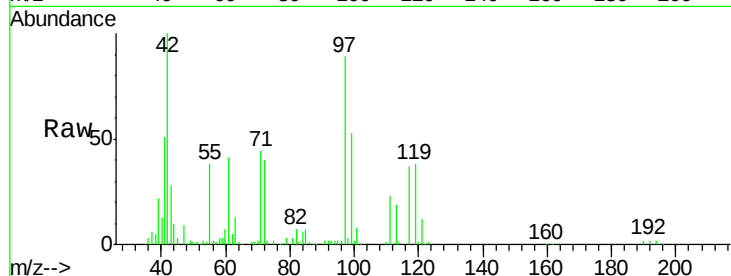




#29
Tetrahydrofuran
Concen: 203.706 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

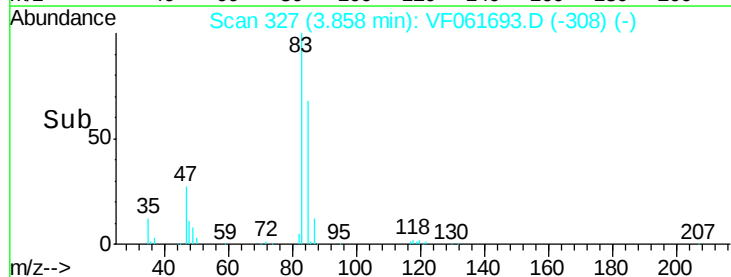
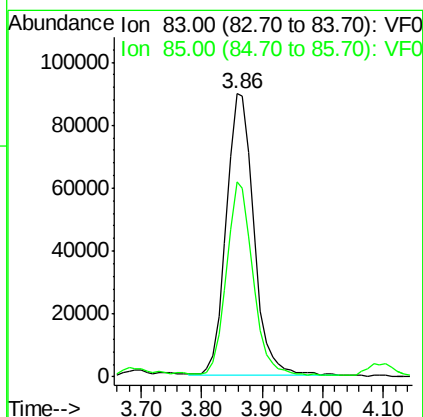
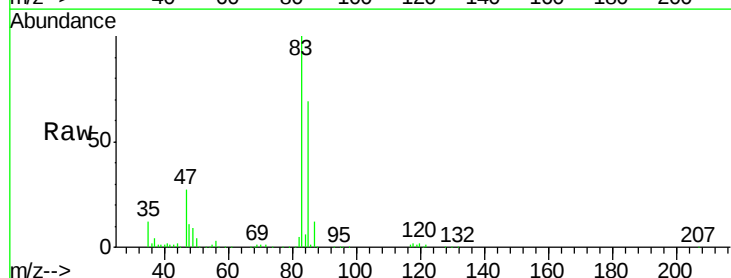
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

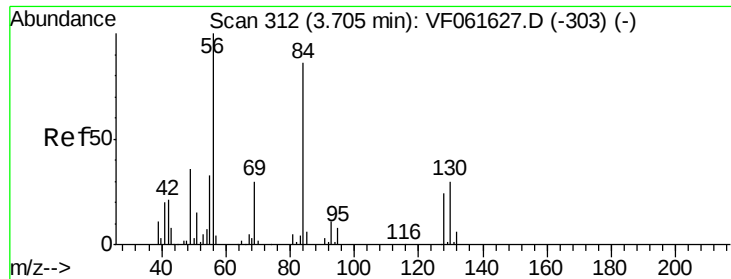
Tot Ion: 42 Resp: 112777
Ion Ratio Lower Upper
42 100
72 40.1 35.2 52.8
71 40.8 32.9 49.3



#30
Chloroform
Concen: 45.865 ug/l
RT: 3.86 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 83 Resp: 282383
Ion Ratio Lower Upper
83 100
85 69.0 51.1 76.7

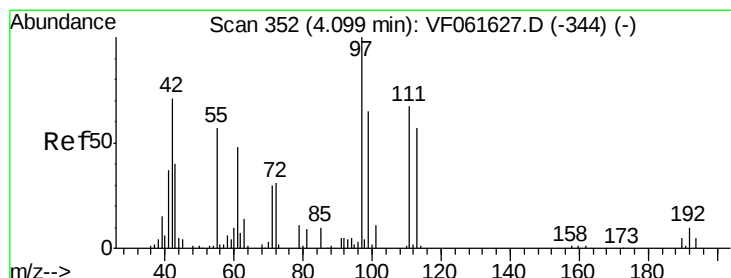
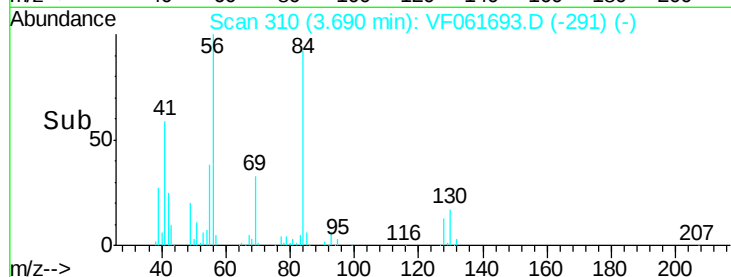
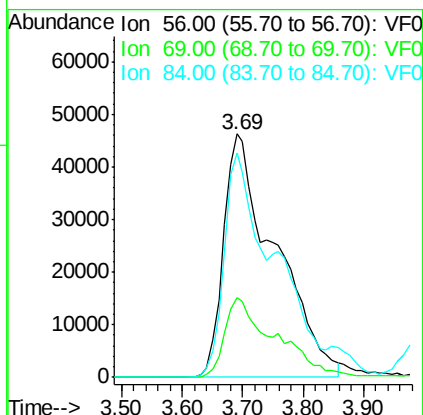
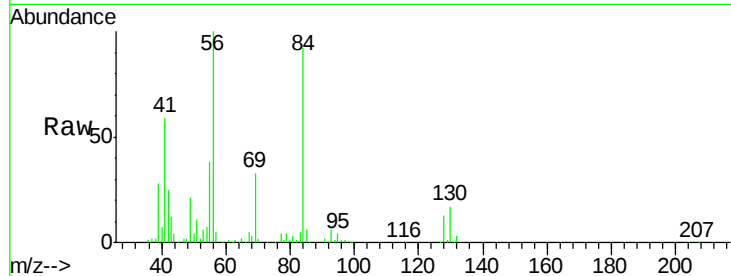




#31
Cyclohexane
Concen: 46.639 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

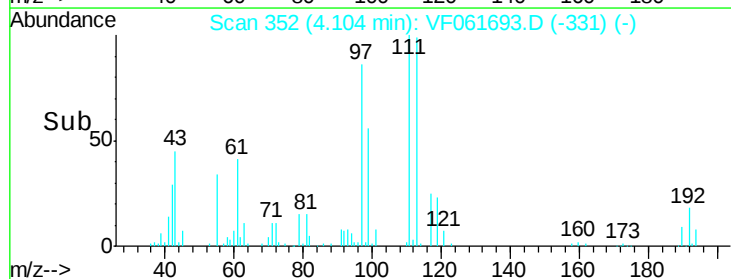
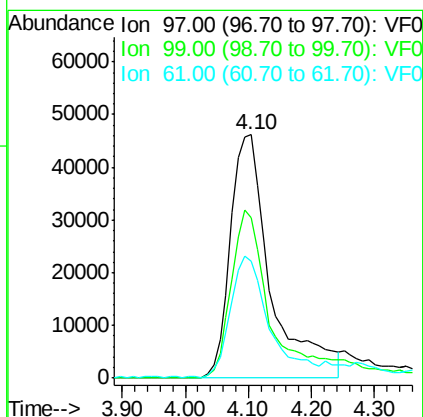
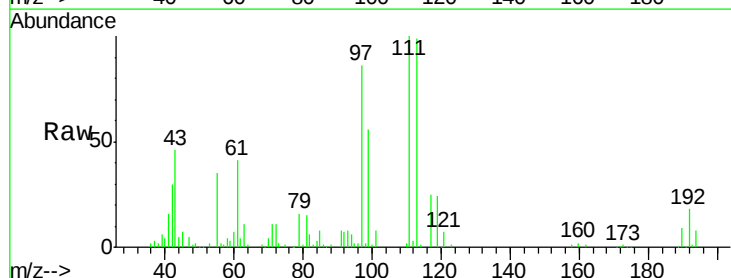
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

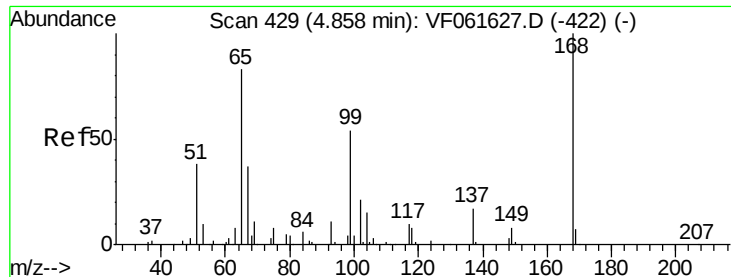
Tot Ion: 56 Resp: 273339
Ion Ratio Lower Upper
56 100
69 32.9 23.8 35.8
84 92.1 68.6 103.0



#32
1,1,1-Trichloroethane
Concen: 51.255 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 97 Resp: 206717
Ion Ratio Lower Upper
97 100
99 65.7 52.2 78.2
61 47.8 39.2 58.8

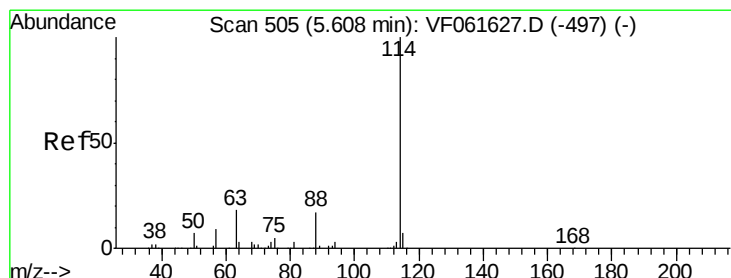
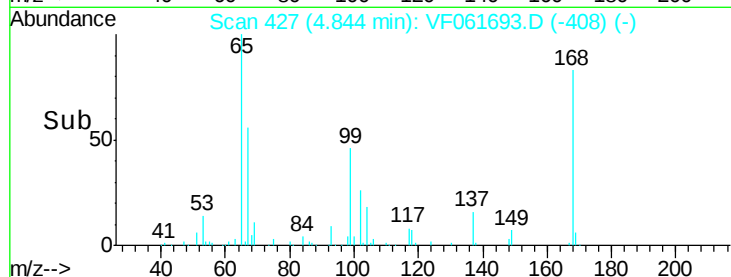
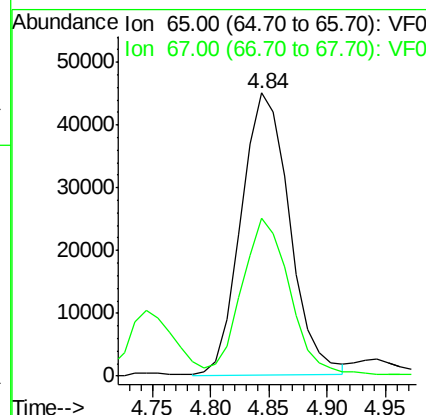
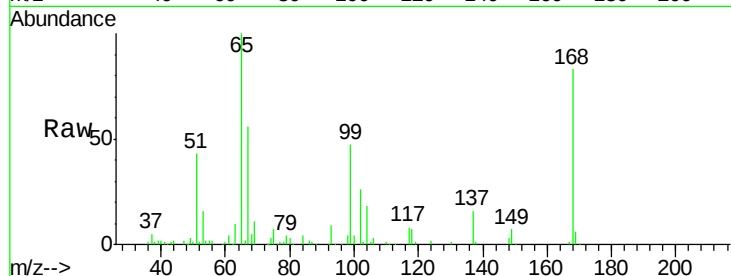




#33
 1,2-Dichloroethane-d4
 Concen: 50.135 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

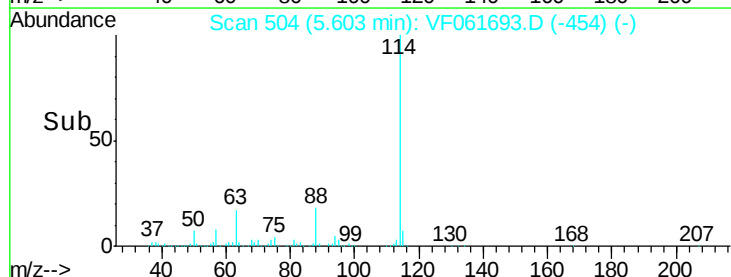
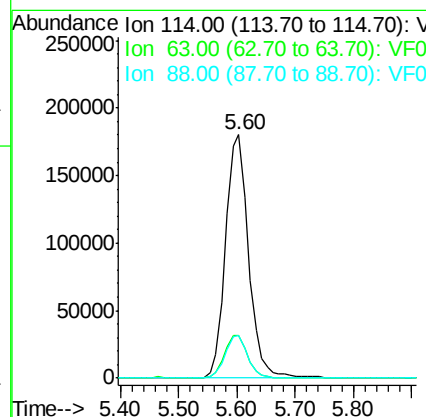
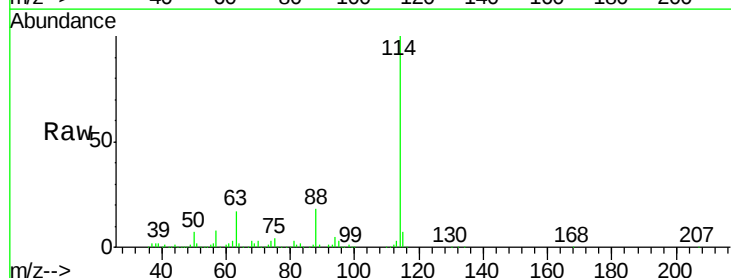
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

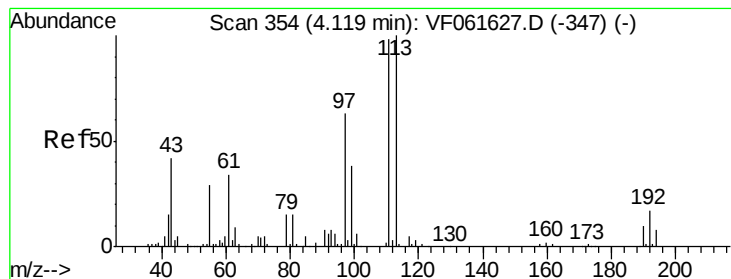
Tot Ion: 65 Resp: 130305
 Ion Ratio Lower Upper
 65 100
 67 55.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion: 114 Resp: 495937
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 36.6
 88 17.7 0.0 34.4





#35

Dibromofluoromethane

Concen: 52.997 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

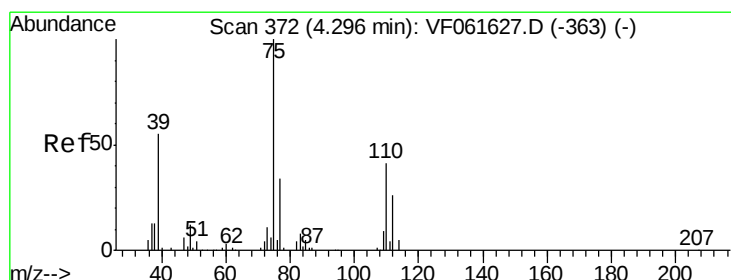
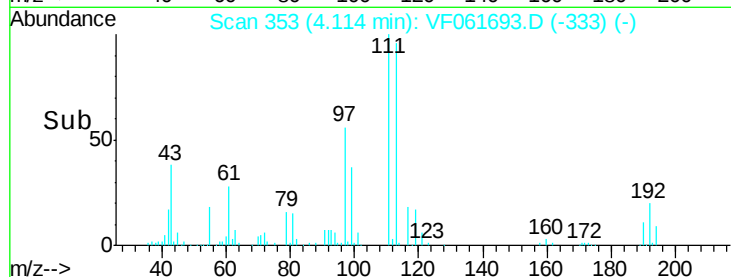
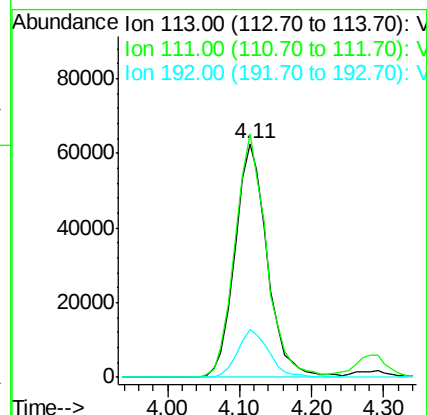
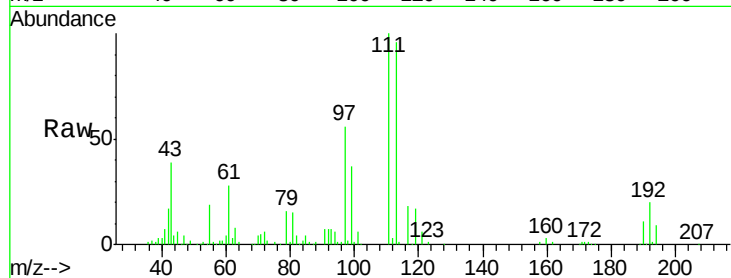
Tot Ion:113 Resp: 195181

Ion Ratio Lower Upper

113 100

111 104.0 78.8 118.2

192 21.0 13.4 20.0#



#36

1,1-Dichloropropene

Concen: 50.583 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

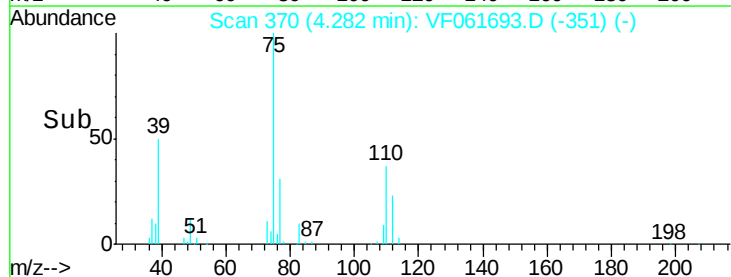
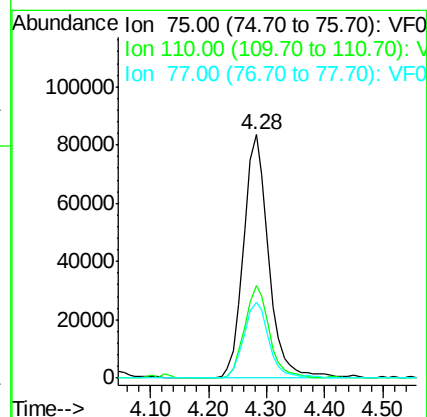
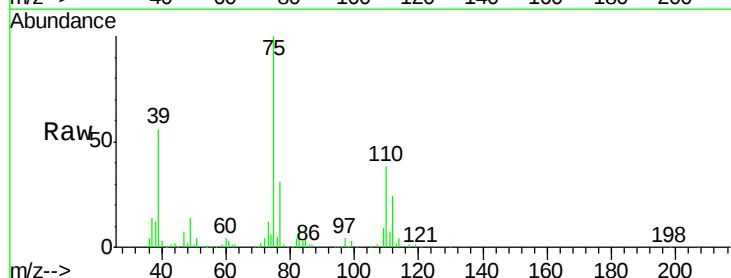
Tgt Ion: 75 Resp: 248507

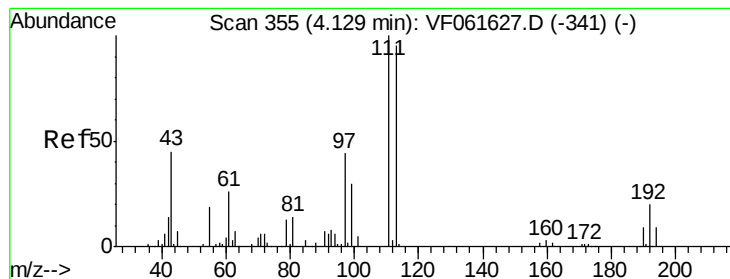
Ion Ratio Lower Upper

75 100

110 37.9 20.5 61.6

77 31.1 27.0 40.4





#37

Ethyl Acetate

Concen: 43.334 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

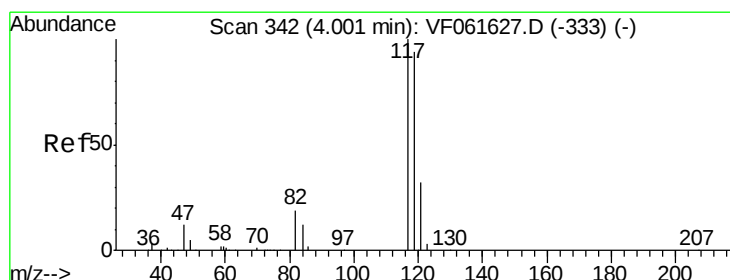
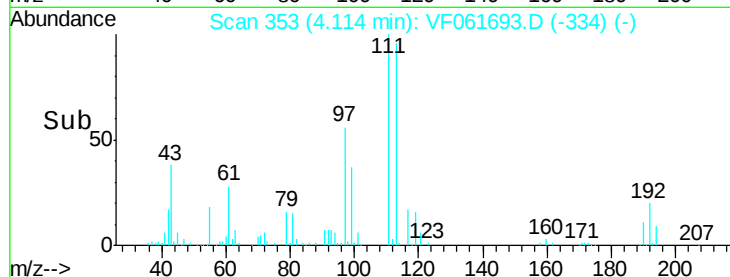
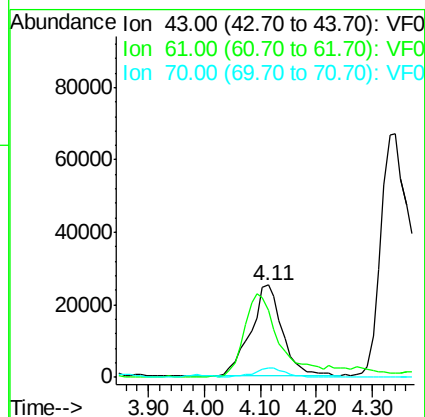
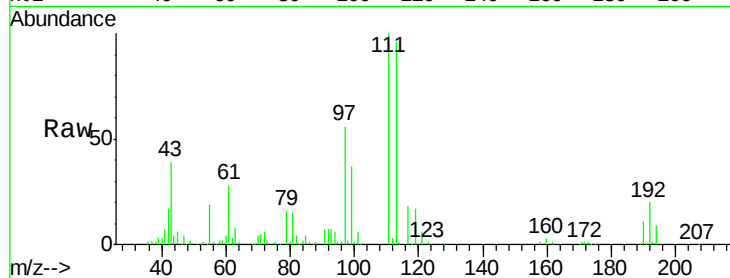
Tot Ion: 43 Resp: 98883

Ion Ratio Lower Upper

43 100

61 73.0 45.7 68.5#

70 10.7 8.5 12.7



#38

Carbon Tetrachloride

Concen: 51.339 ug/l

RT: 3.99 min Scan# 340

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

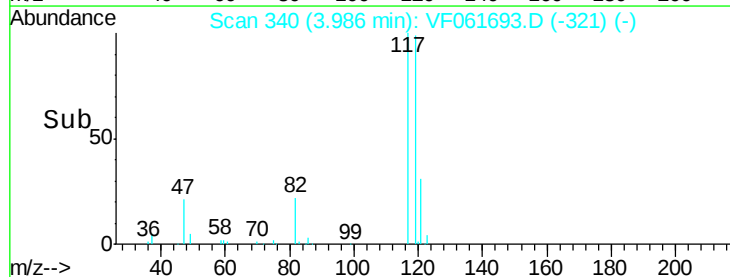
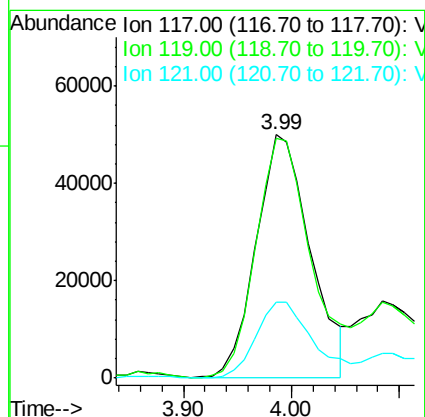
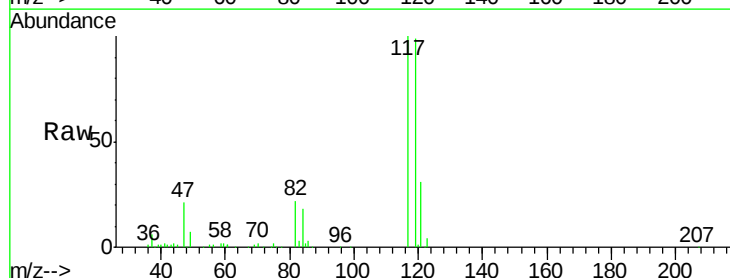
Tgt Ion: 117 Resp: 174163

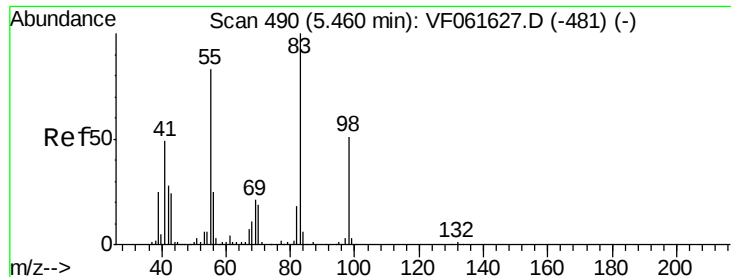
Ion Ratio Lower Upper

117 100

119 98.7 75.6 113.4

121 31.1 25.2 37.8

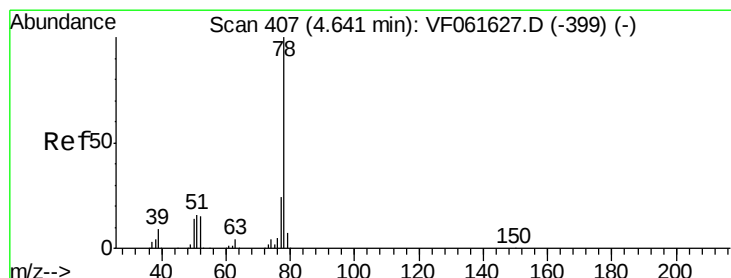
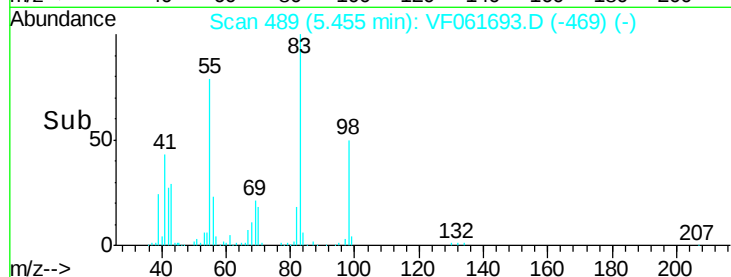
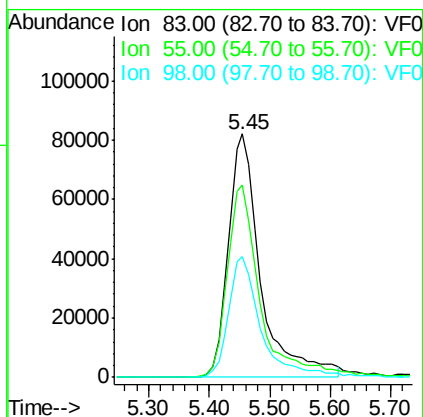
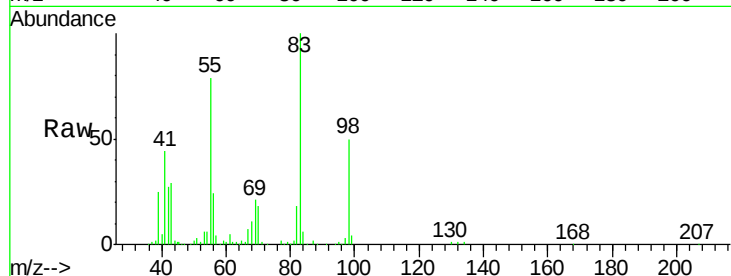




#39
Methvlcvclohexane
Concen: 52.514 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

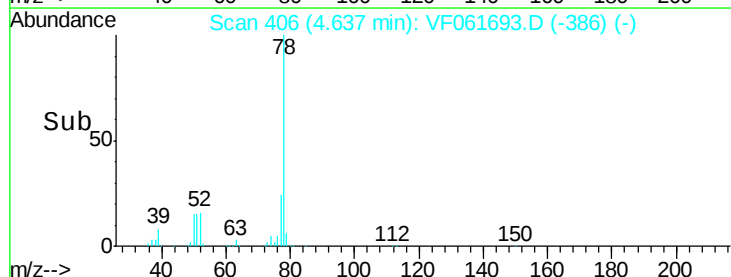
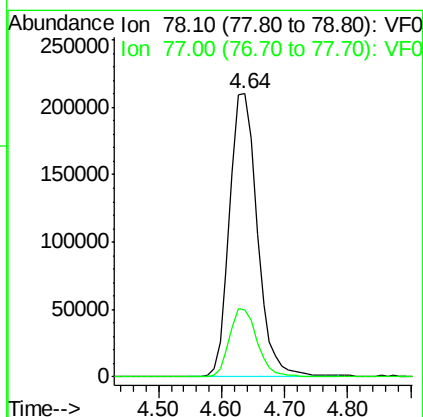
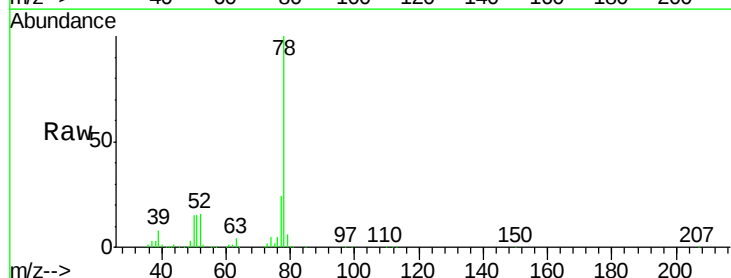
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

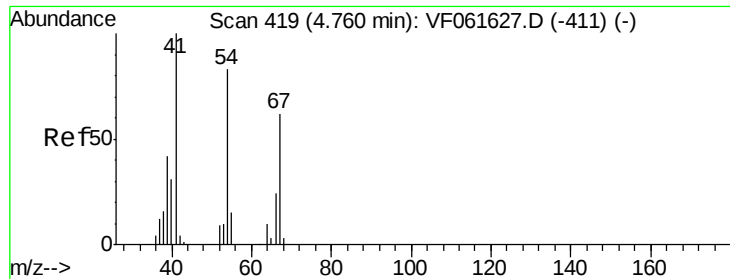
Tot Ion: 83 Resp: 305118
Ion Ratio Lower Upper
83 100
55 78.9 66.6 99.8
98 49.7 40.4 60.6



#40
Benzene
Concen: 50.186 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 78 Resp: 644915
Ion Ratio Lower Upper
78 100
77 23.9 19.0 28.6

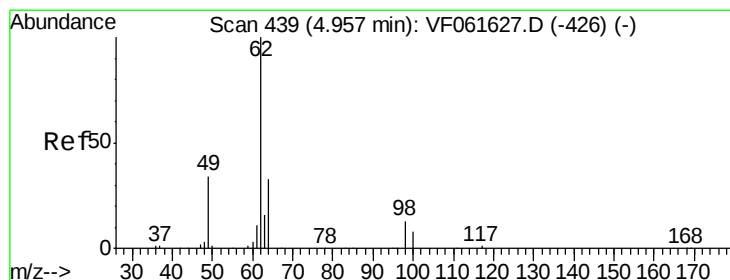
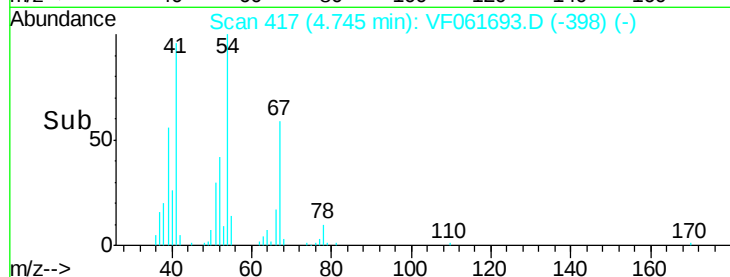
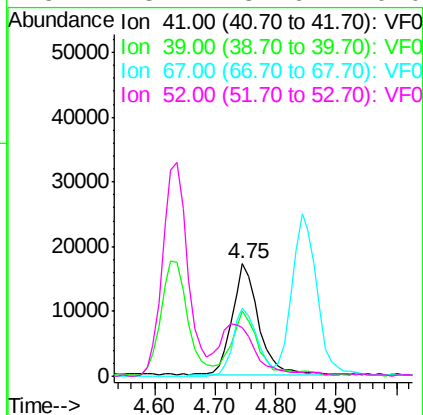
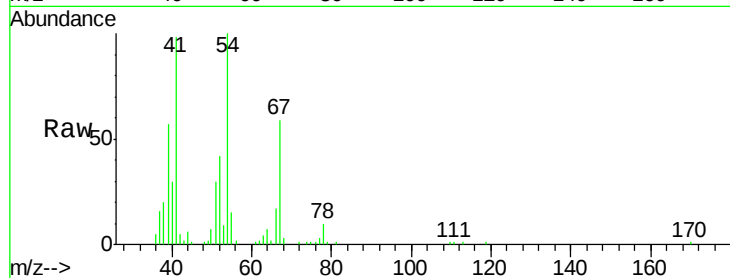




#41
Methacrylonitrile
Concen: 43.855 ug/l
RT: 4.75 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

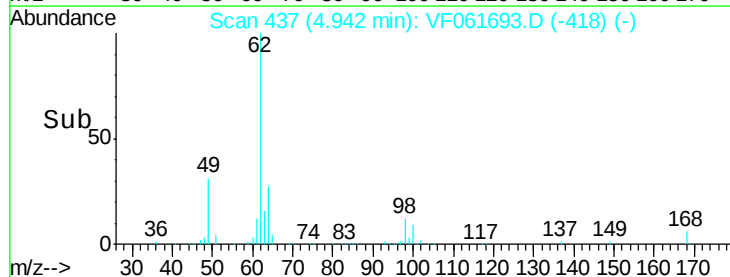
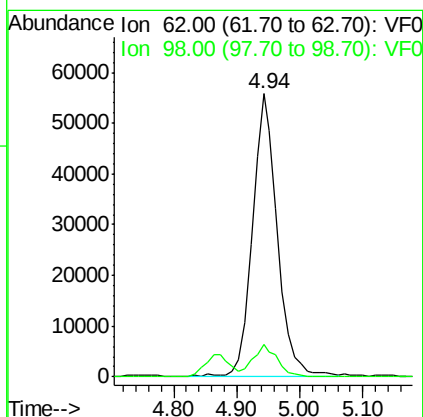
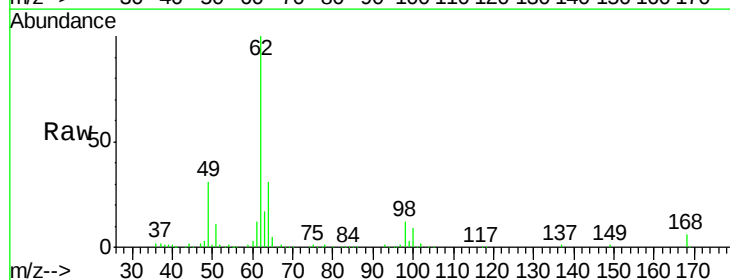
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

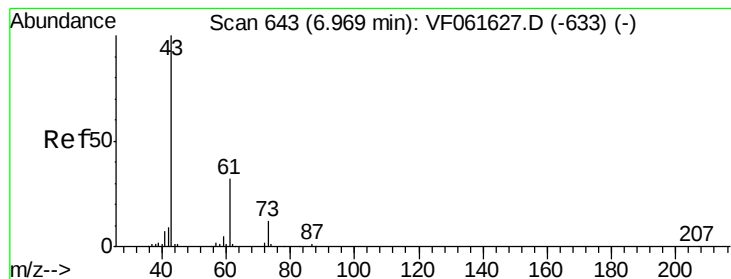
Tot Ion:	41	Resp:	51177
Ion	Ratio	Lower	Upper
41	100		
39	58.1	45.3	67.9
67	60.5	49.3	73.9
52	43.1	32.6	49.0



#42
1,2-Dichloroethane
Concen: 50.248 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion:	62	Resp:	154455
Ion	Ratio	Lower	Upper
62	100		
98	11.5	0.0	26.0



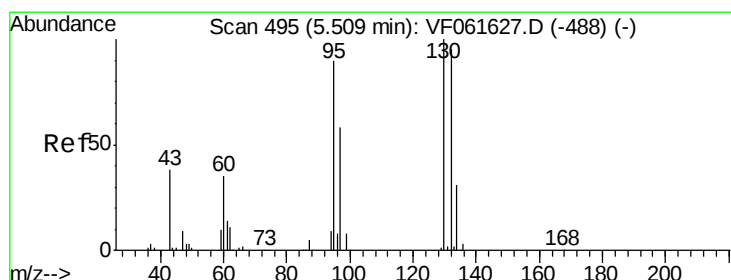
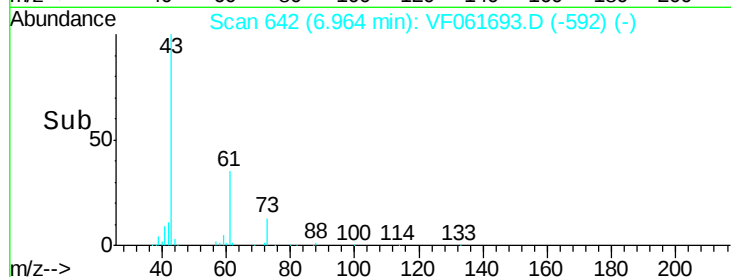
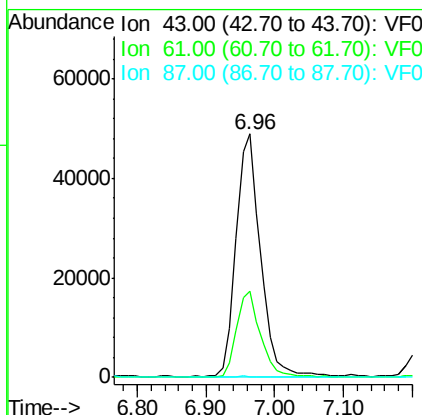
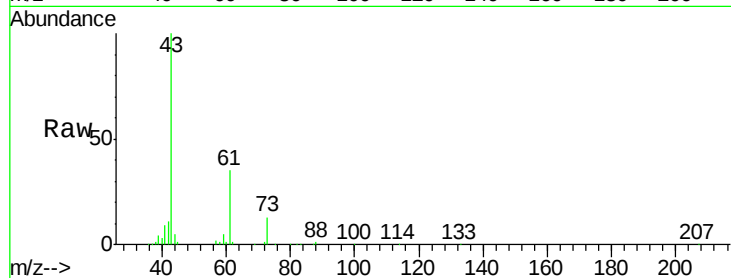


#43

Isopropyl Acetate
 Concen: 44.387 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

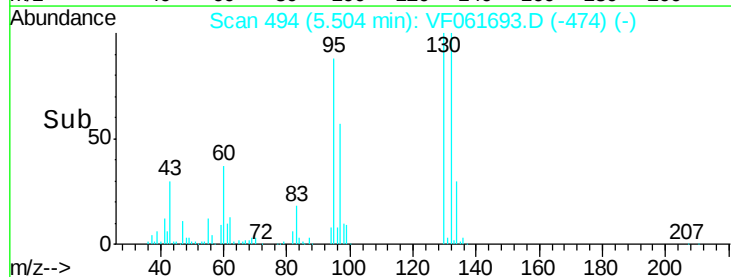
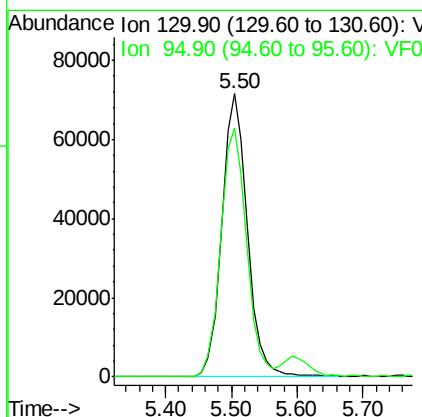
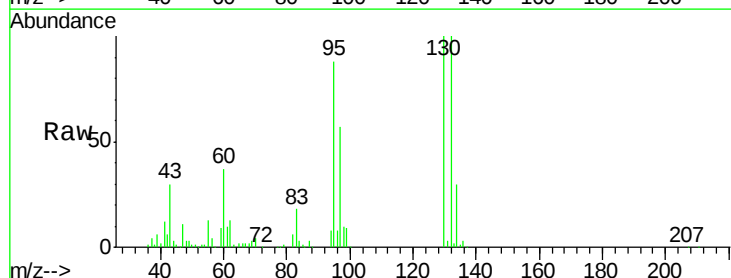
Tot Ion: 43 Resp: 119892
 Ion Ratio Lower Upper
 43 100
 61 35.2 25.8 38.6
 87 0.3 0.4 0.6#

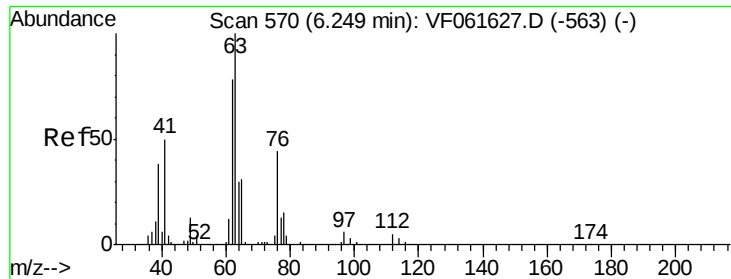


#44

Trichloroethene
 Concen: 46.720 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion: 130 Resp: 194148
 Ion Ratio Lower Upper
 130 100
 95 87.9 0.0 179.4





#45

1,2-Dichloropropane

Concen: 50.333 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

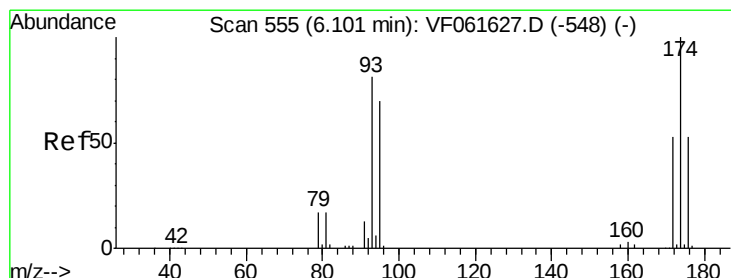
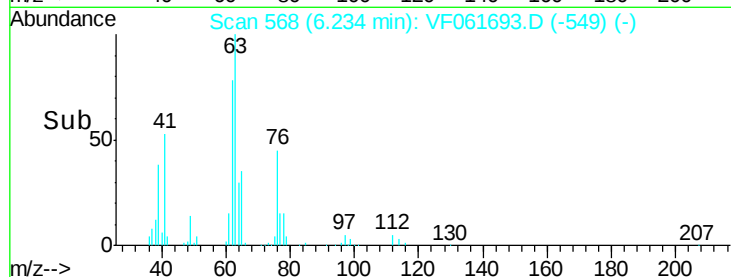
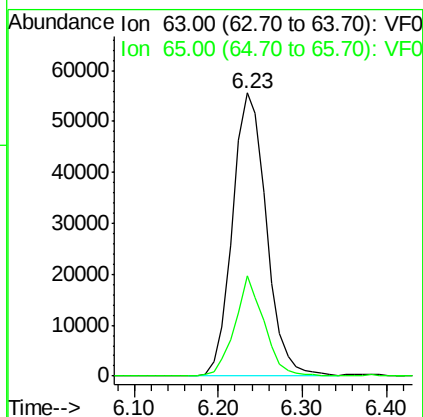
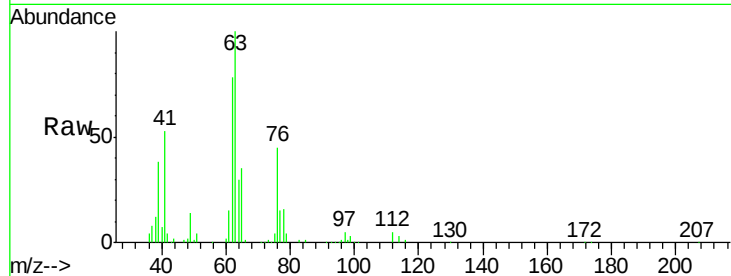
VSTDCCC050

Tot Ion: 63 Resp: 156344

Ion Ratio Lower Upper

63 100

65 35.4 24.9 37.3



#46

Dibromomethane

Concen: 48.113 ug/l

RT: 6.09 min Scan# 553

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

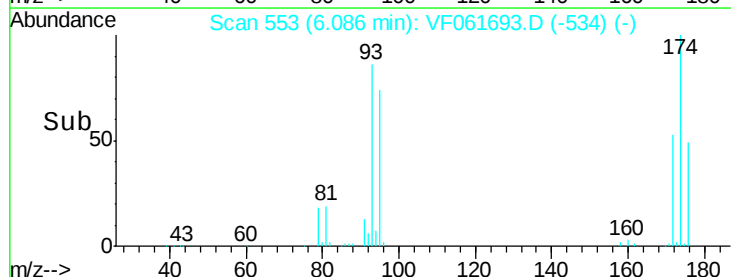
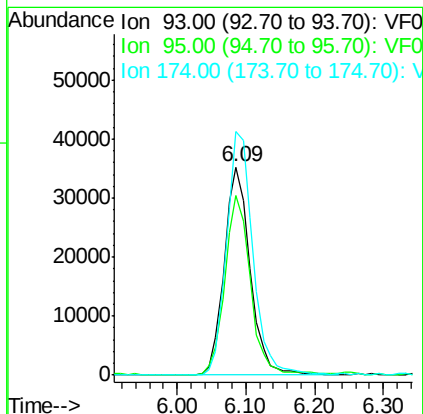
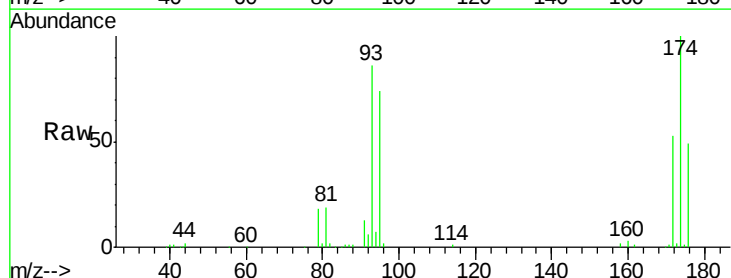
Tgt Ion: 93 Resp: 92016

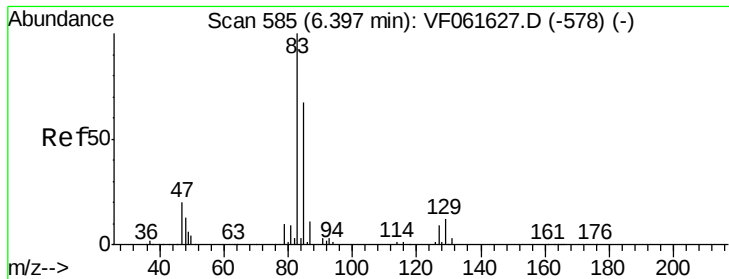
Ion Ratio Lower Upper

93 100

95 86.5 69.0 103.6

174 116.9 99.3 148.9





#47

Bromodichloromethane

Concen: 49.068 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

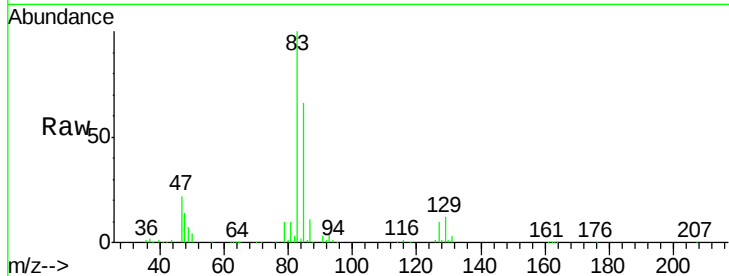
Tot Ion: 83 Resp: 205502

Ion Ratio Lower Upper

83 100

85 66.4 53.4 80.2

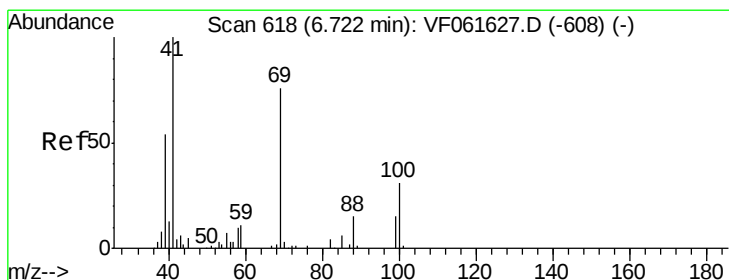
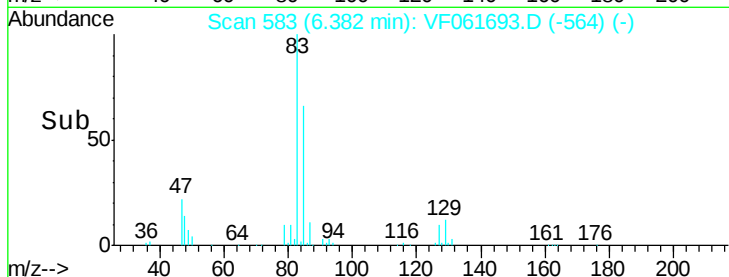
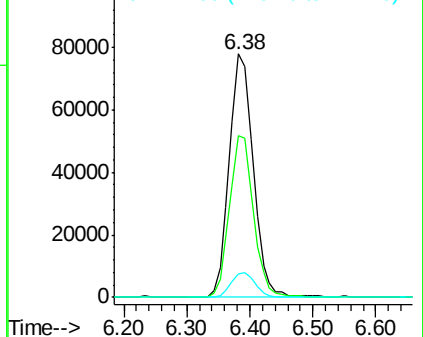
127 9.7 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 47.263 ug/l

RT: 6.72 min Scan# 617

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

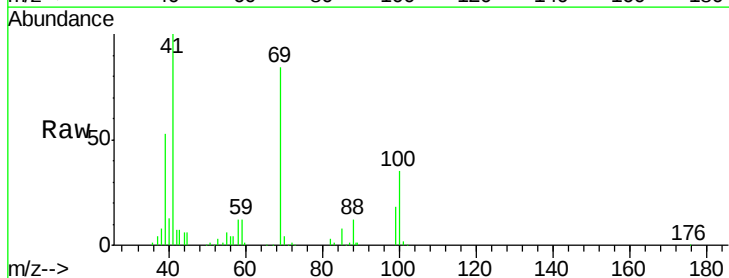
Tgt Ion: 41 Resp: 76824

Ion Ratio Lower Upper

41 100

69 84.0 60.4 90.6

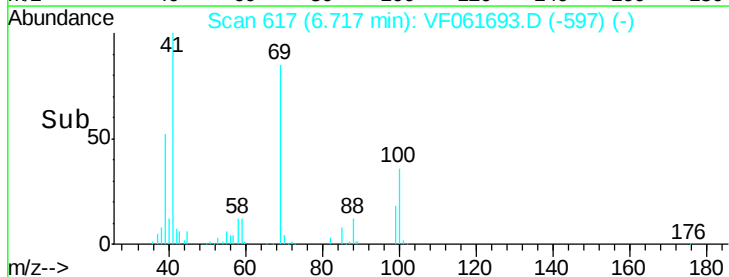
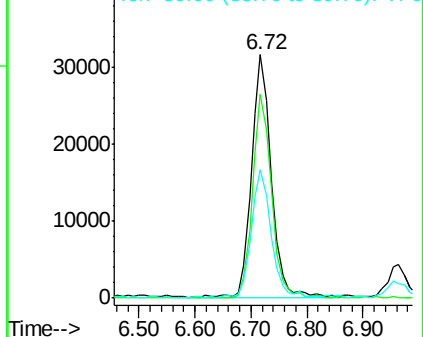
39 52.7 43.7 65.5

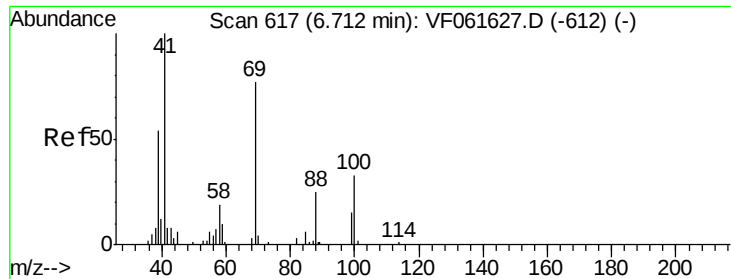


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

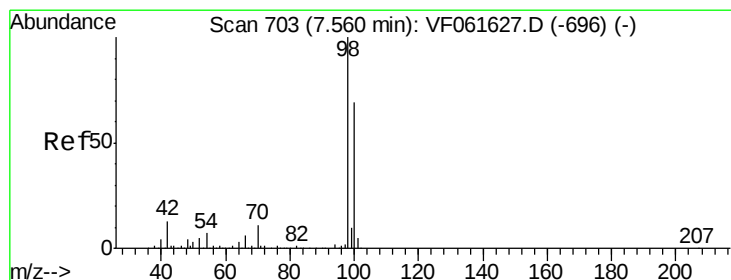
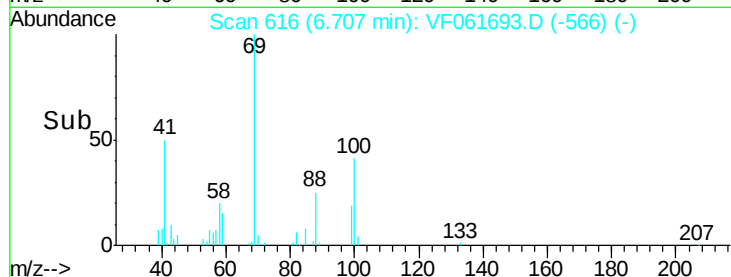
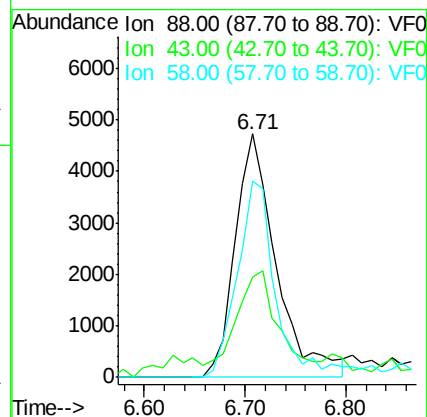
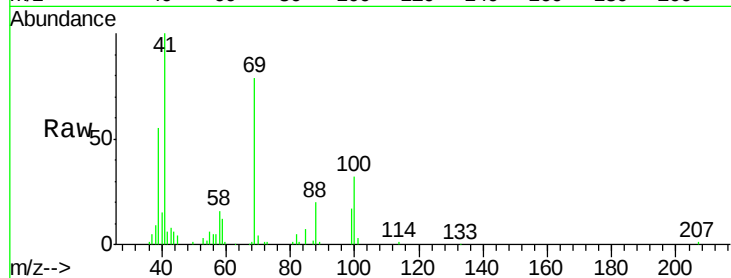




#49
1,4-Dioxane
Concen: 876.492 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

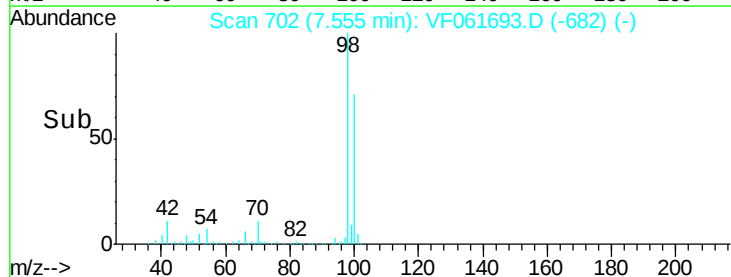
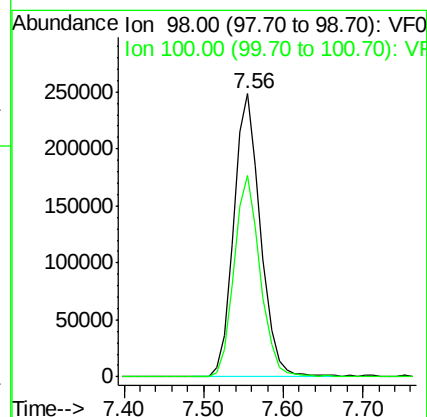
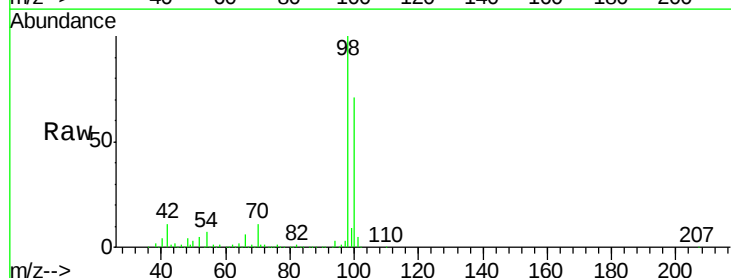
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

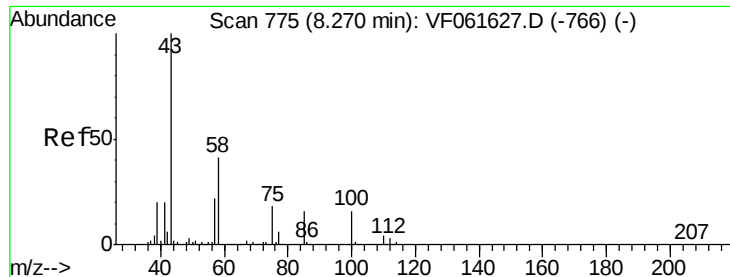
Tot Ion: 88 Resp: 13393
Ion Ratio Lower Upper
88 100
43 41.3 32.3 48.5
58 80.6 59.4 89.2



#50
Toluene-d8
Concen: 54.977 ug/l
RT: 7.56 min Scan# 702
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 98 Resp: 582055
Ion Ratio Lower Upper
98 100
100 71.2 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 213.520 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

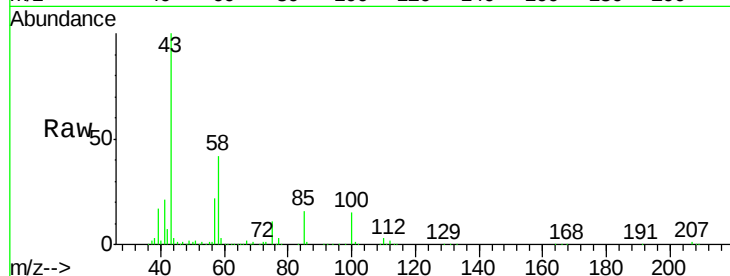
VSTDCCC050

Tot Ion: 43 Resp: 412092

Ion Ratio Lower Upper

43 100

58 41.6 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

200000

150000

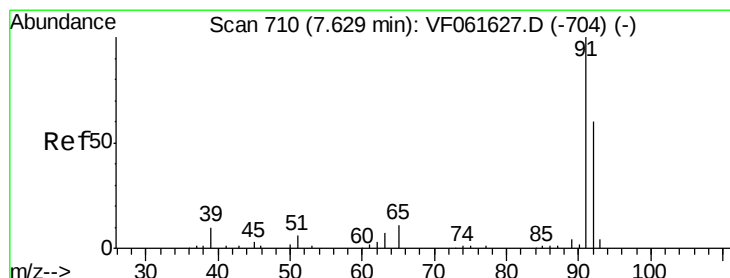
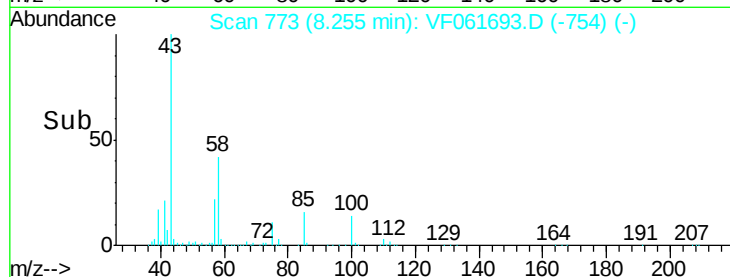
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 47.160 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.00 min

Lab File: VF061693.D

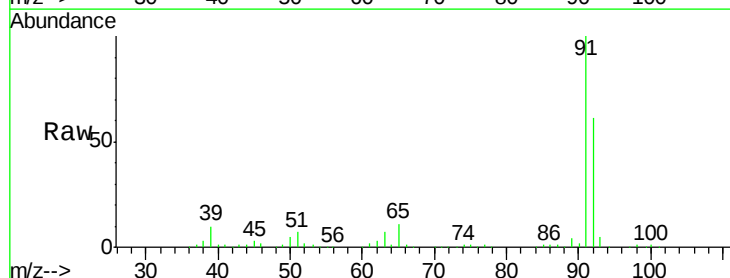
Acq: 21 Feb 2019 12:33

Tgt Ion: 92 Resp: 367544

Ion Ratio Lower Upper

92 100

91 164.9 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

300000

250000

200000

150000

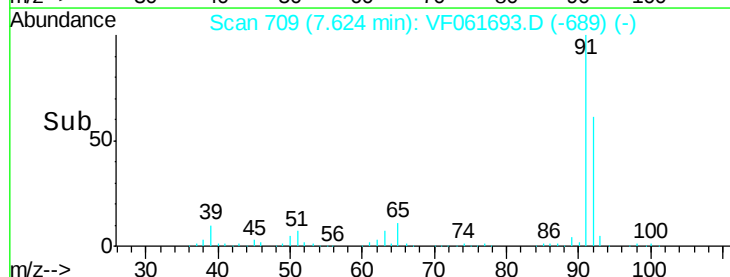
100000

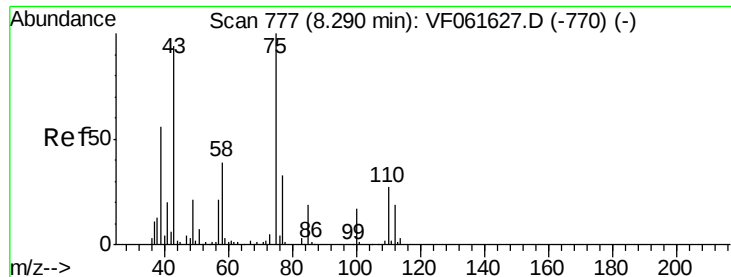
50000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 50.586 ug/l

RT: 8.29 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

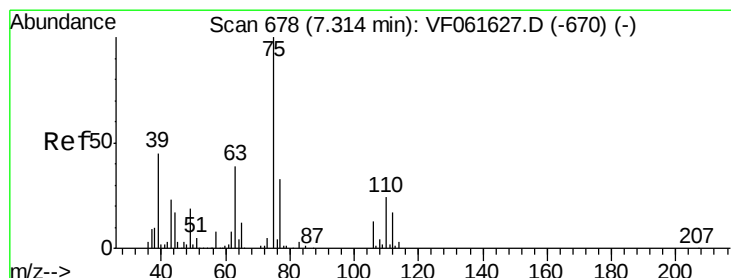
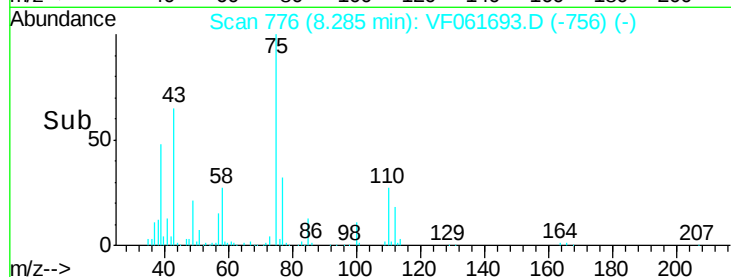
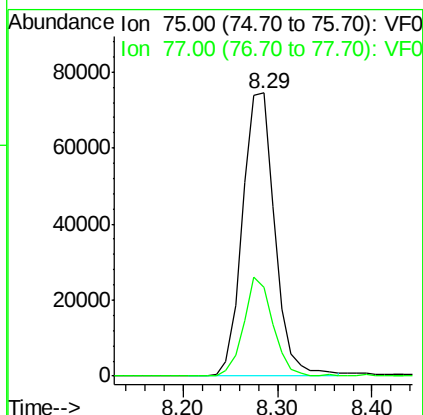
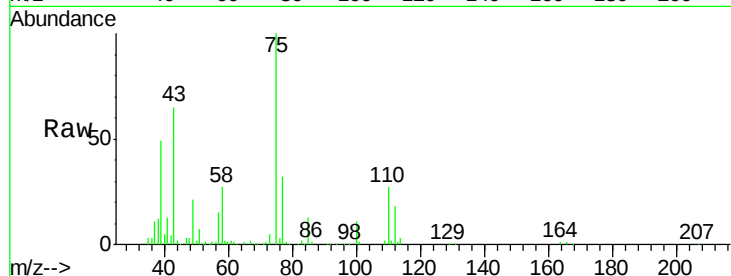
VSTDCCC050

Tot Ion: 75 Resp: 176325

Ion Ratio Lower Upper

75 100

77 31.6 26.2 39.2



#54

cis-1,3-Dichloropropene

Concen: 51.834 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

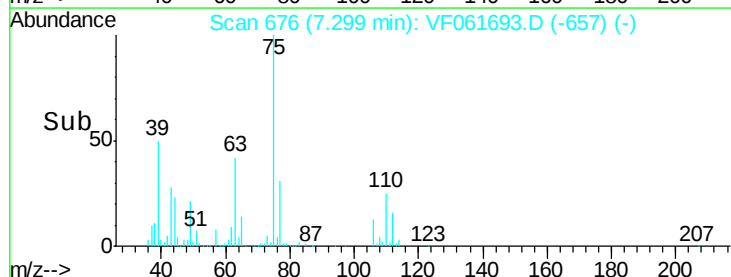
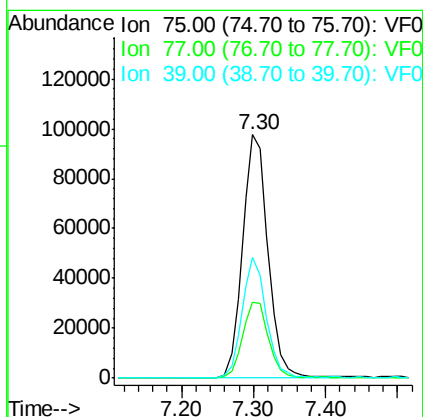
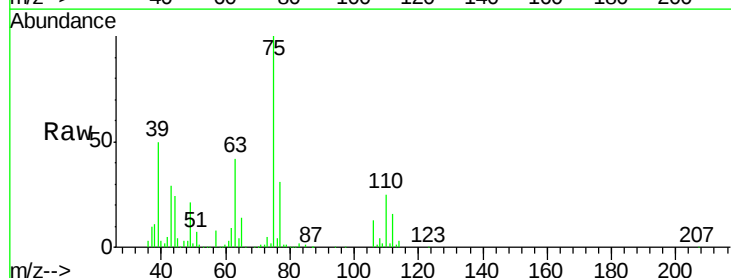
Tgt Ion: 75 Resp: 240655

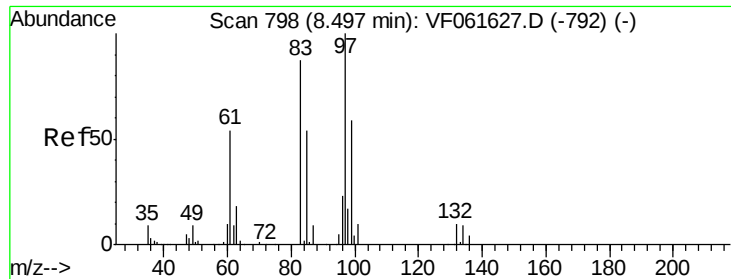
Ion Ratio Lower Upper

75 100

77 31.1 26.4 39.6

39 49.7 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 47.716 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 109261

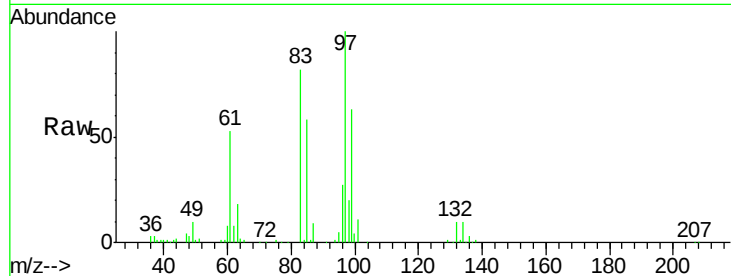
Ion Ratio Lower Upper

97 100

83 81.7 69.2 103.8

85 58.4 43.0 64.4

99 63.0 47.2 70.8

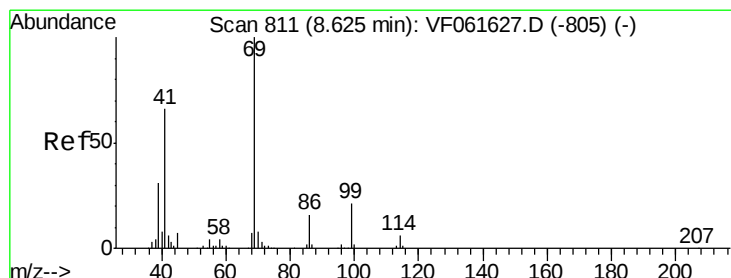
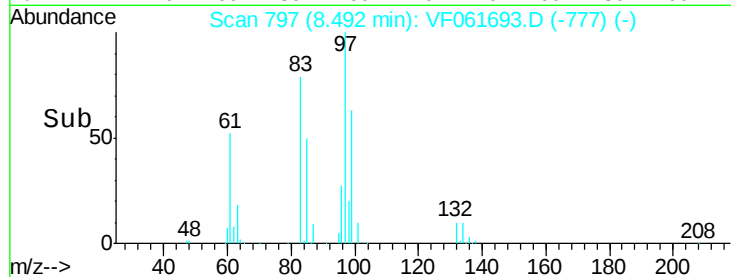
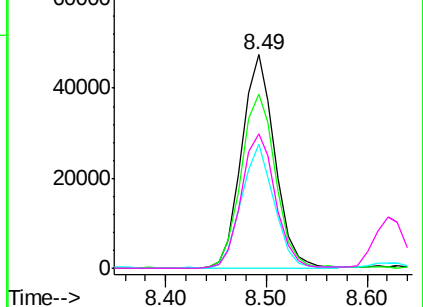


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 47.182 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

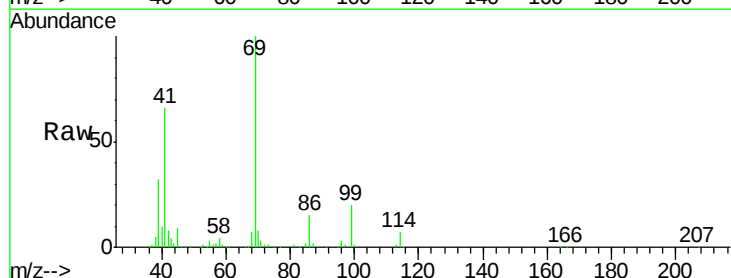
Tgt Ion: 69 Resp: 120285

Ion Ratio Lower Upper

69 100

41 66.4 52.9 79.3

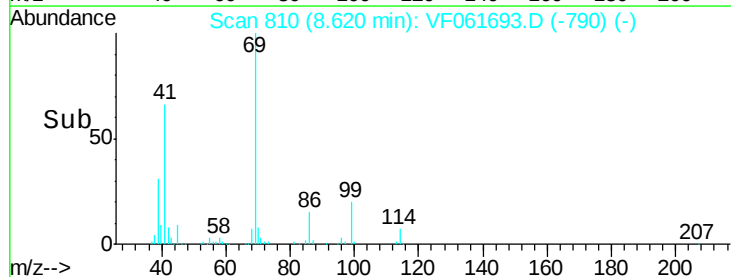
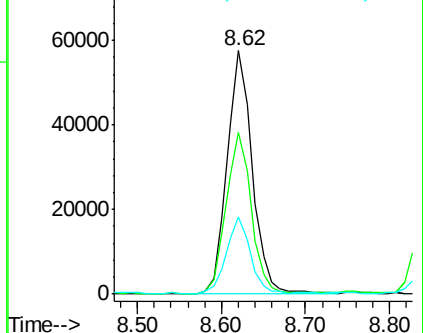
39 31.7 24.5 36.7

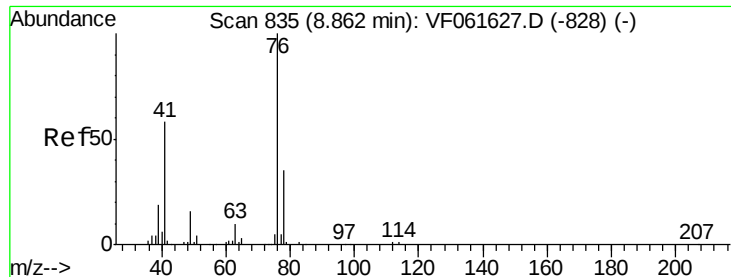


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 49.003 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

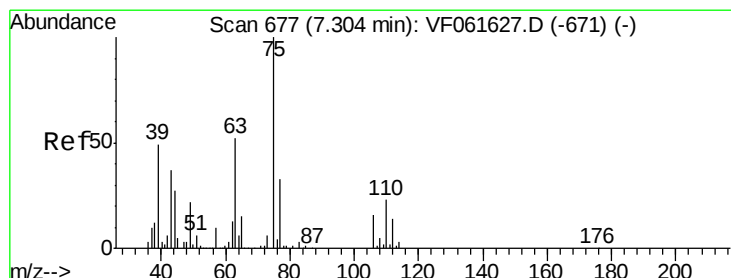
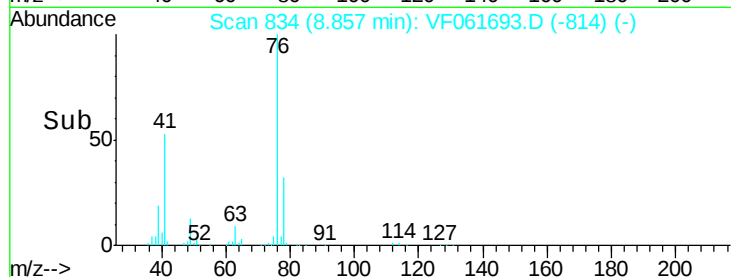
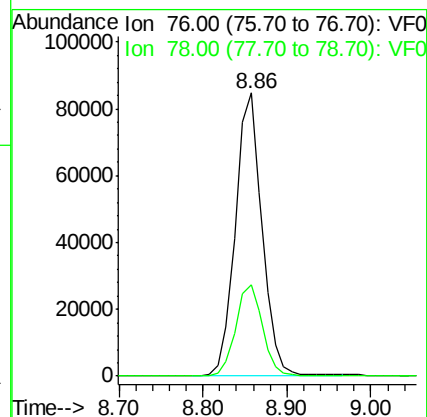
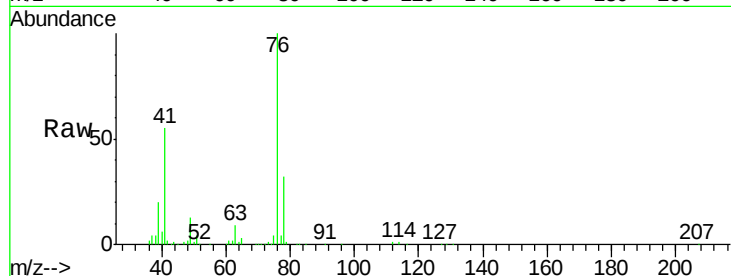
VSTDCCC050

Tot Ion: 76 Resp: 187289

Ion Ratio Lower Upper

76 100

78 32.1 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 216.445 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061693.D

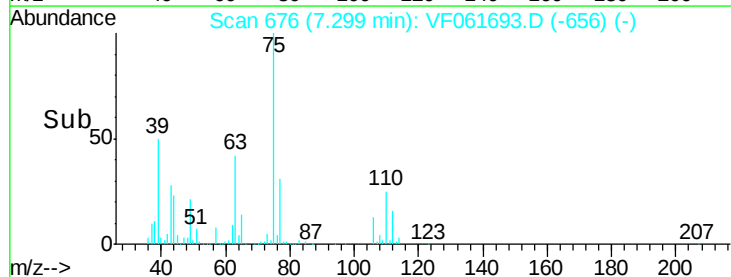
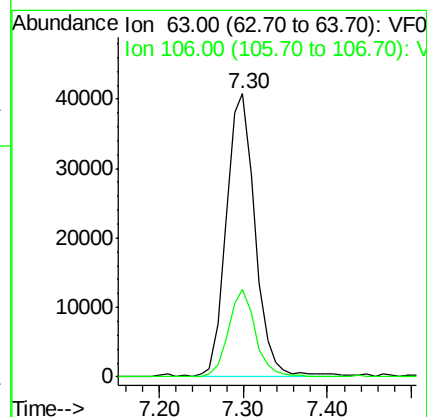
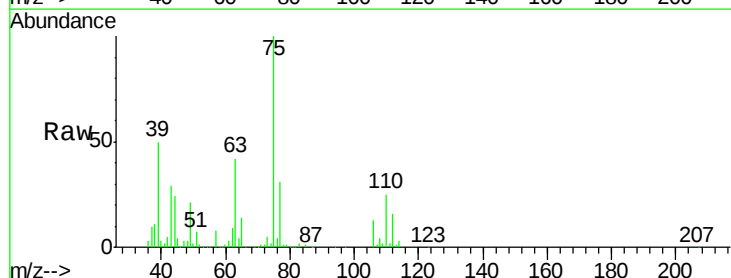
Acq: 21 Feb 2019 12:33

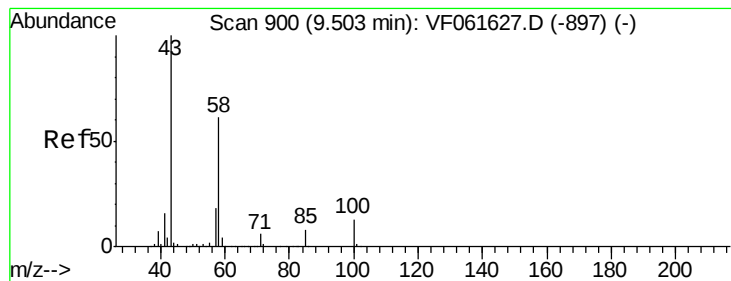
Tgt Ion: 63 Resp: 95206

Ion Ratio Lower Upper

63 100

106 30.8 24.6 36.8





#59

2-Hexanone

Concen: 222.894 ug/l

RT: 9.50 min Scan# 899

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

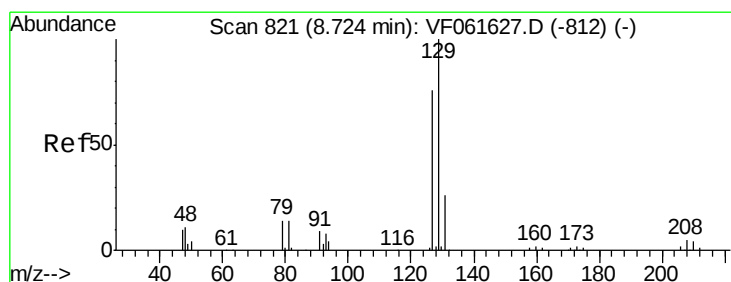
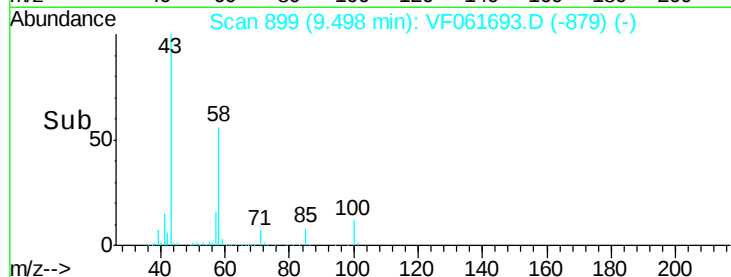
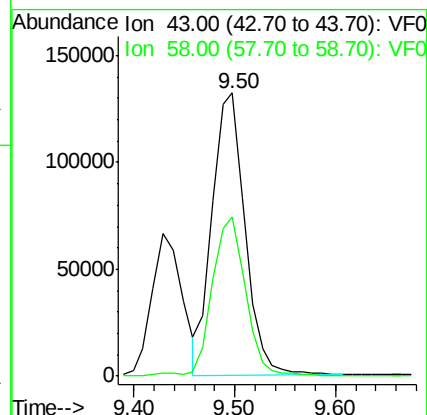
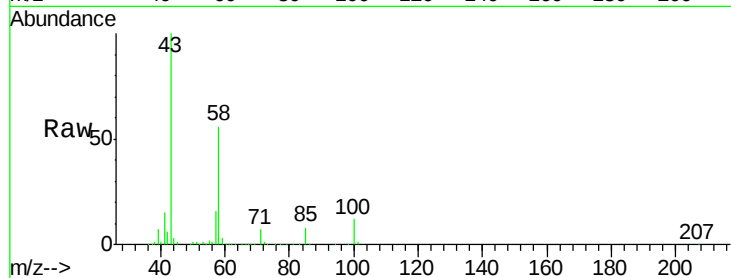
VSTDCCC050

Tot Ion: 43 Resp: 301547

Ion Ratio Lower Upper

43 100

58 56.0 28.5 85.5



#60

Dibromochloromethane

Concen: 49.557 ug/l

RT: 8.72 min Scan# 820

Delta R.T. -0.00 min

Lab File: VF061693.D

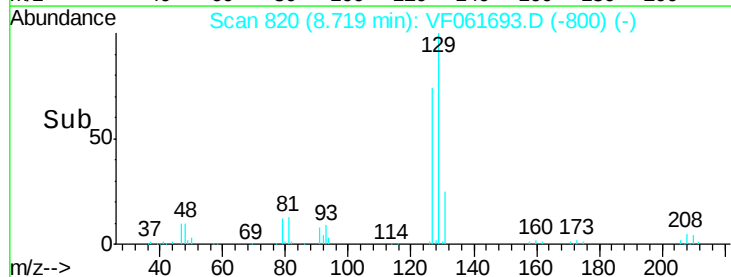
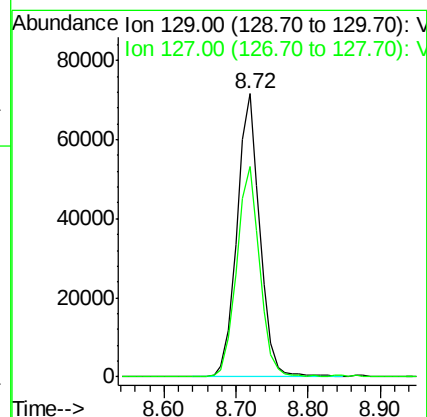
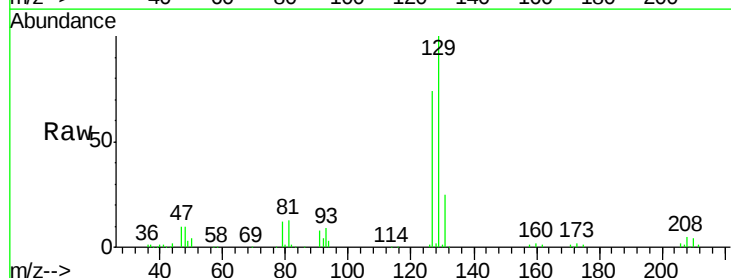
Acq: 21 Feb 2019 12:33

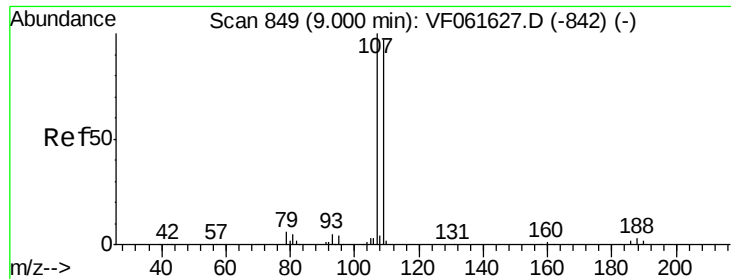
Tgt Ion:129 Resp: 157944

Ion Ratio Lower Upper

129 100

127 74.5 37.8 113.4

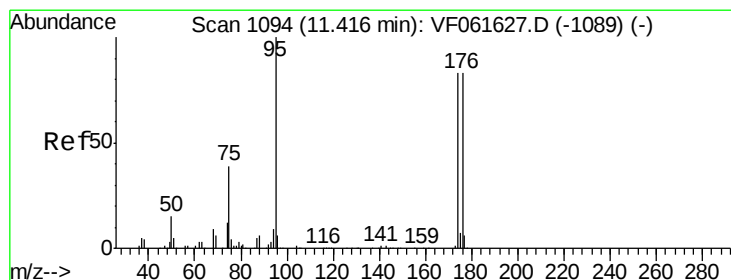
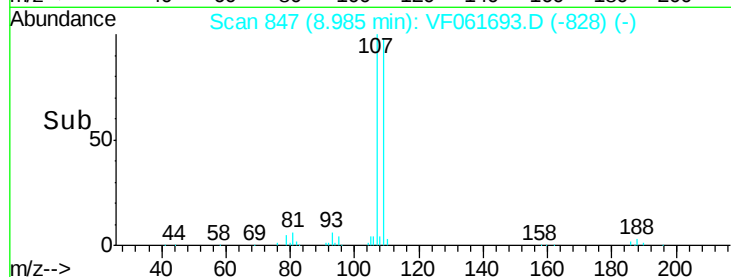
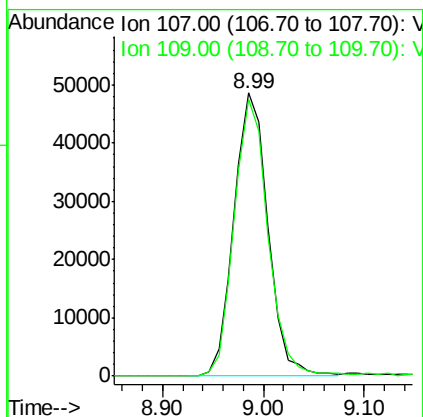
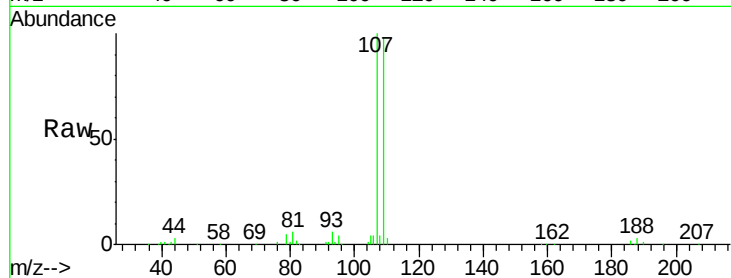




#61
 1,2-Dibromoethane
 Concen: 46.118 ug/l
 RT: 8.99 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

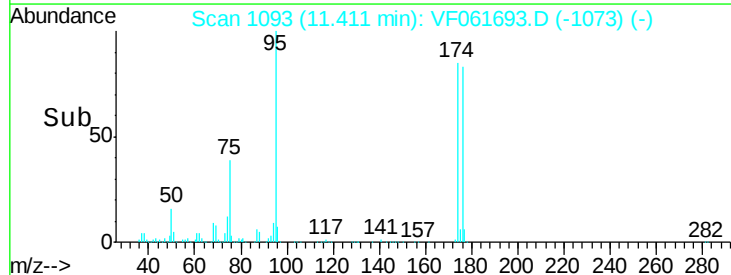
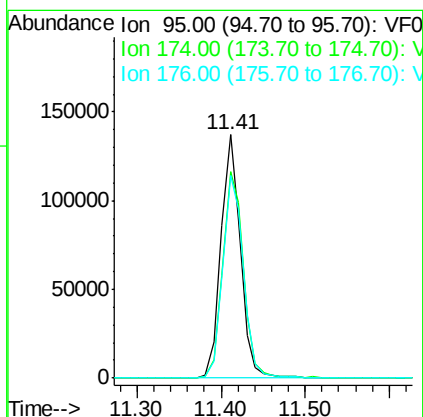
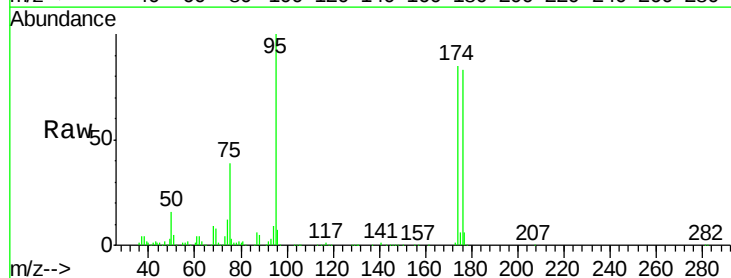
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

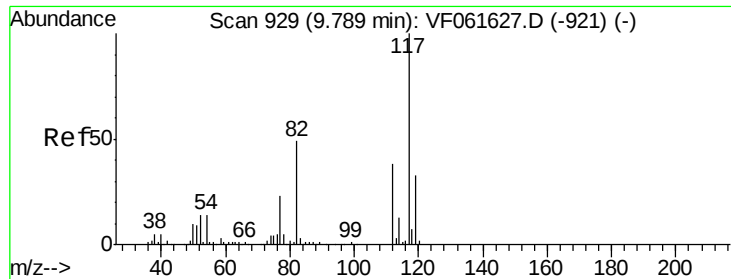
Tot Ion:107 Resp: 114540
 Ion Ratio Lower Upper
 107 100
 109 98.1 77.4 116.0



#62
 4-Bromofluorobenzene
 Concen: 51.777 ug/l
 RT: 11.41 min Scan# 1093
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion: 95 Resp: 221801
 Ion Ratio Lower Upper
 95 100
 174 84.7 0.0 165.8
 176 83.3 0.0 167.0

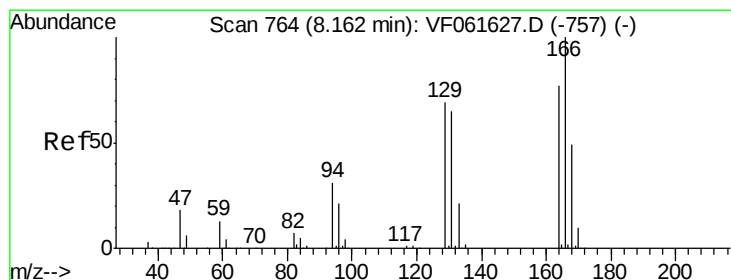
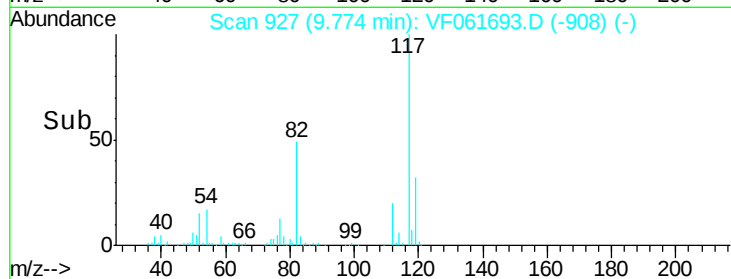
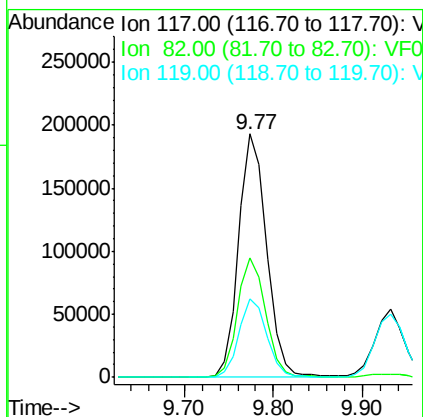
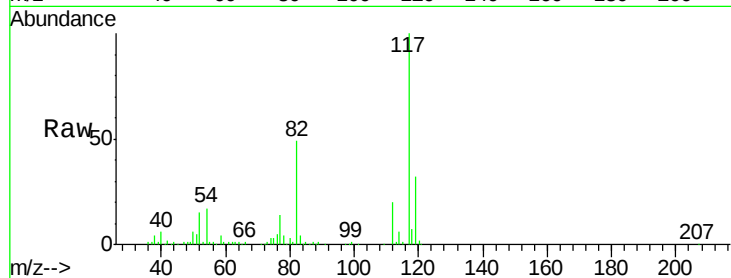




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

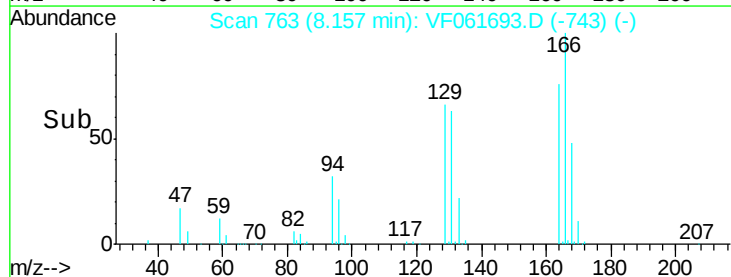
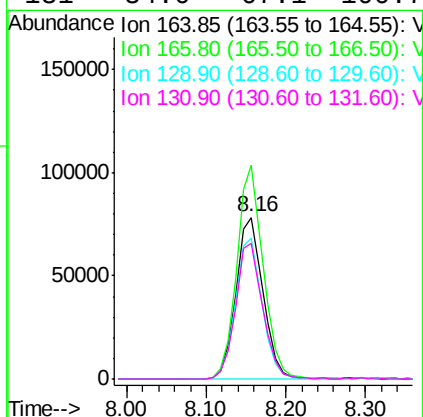
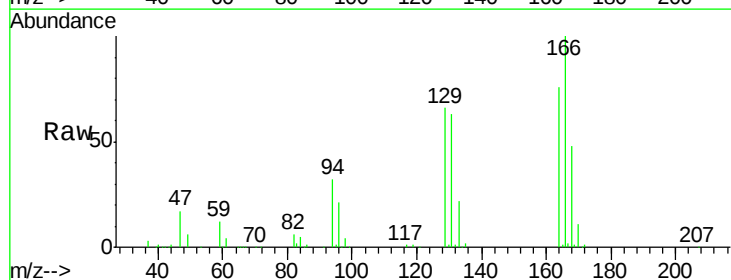
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

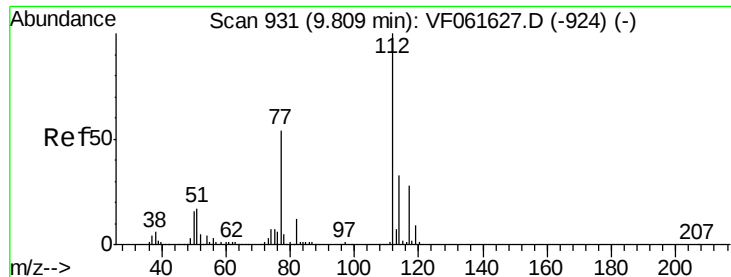
Tot Ion:117 Resp: 423454
Ion Ratio Lower Upper
117 100
82 49.3 39.3 58.9
119 32.1 26.6 40.0



#64
Tetrachloroethene
Concen: 53.232 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion:164 Resp: 184248
Ion Ratio Lower Upper
164 100
166 132.2 103.9 155.9
129 87.4 71.3 106.9
131 84.0 67.1 100.7

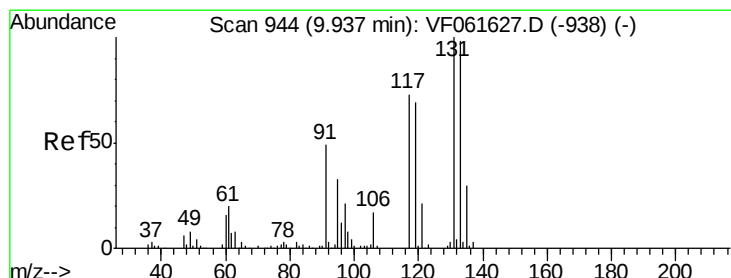
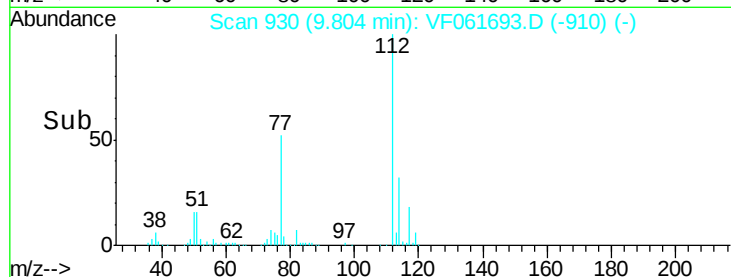
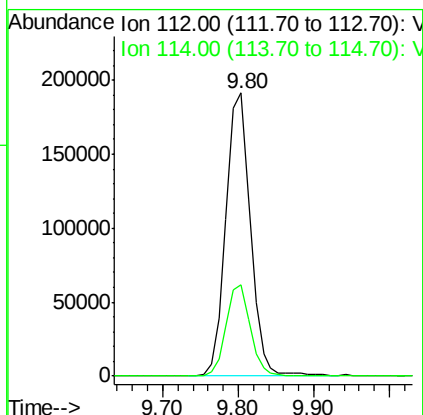
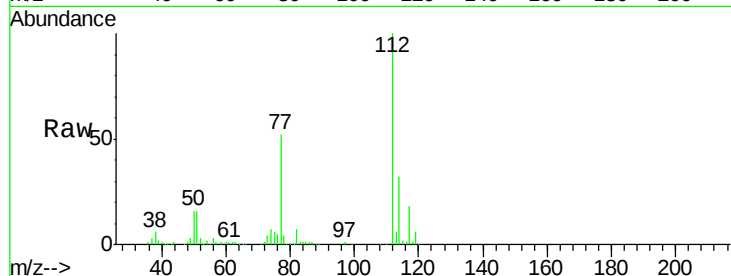




#65
Chlorobenzene
Concen: 50.187 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

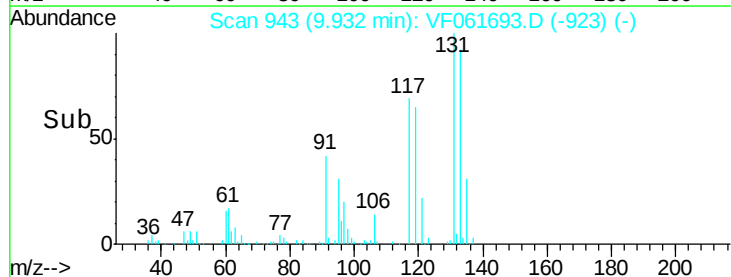
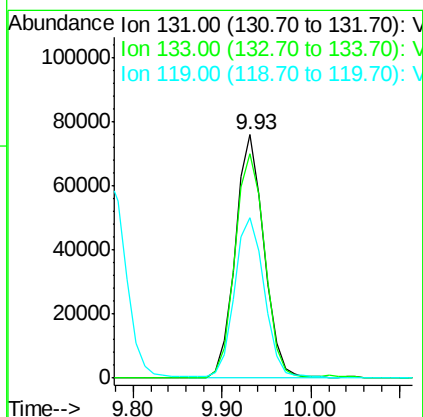
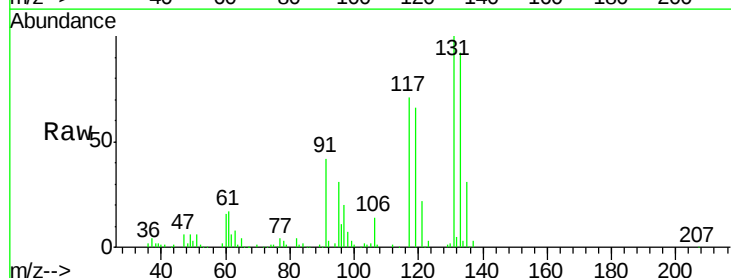
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

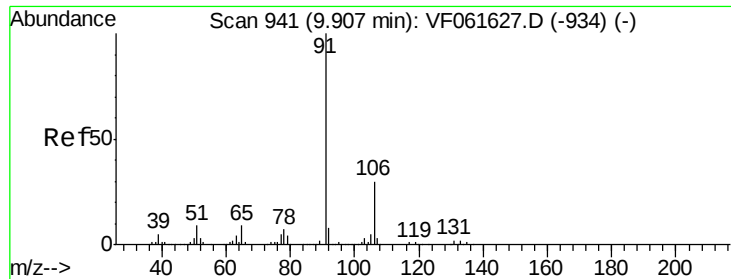
Tot Ion:112 Resp: 431246
Ion Ratio Lower Upper
112 100
114 32.5 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 51.039 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion:131 Resp: 171853
Ion Ratio Lower Upper
131 100
133 92.2 48.9 146.6
119 65.9 34.8 104.3





#67

Ethyl Benzene

Concen: 52.156 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

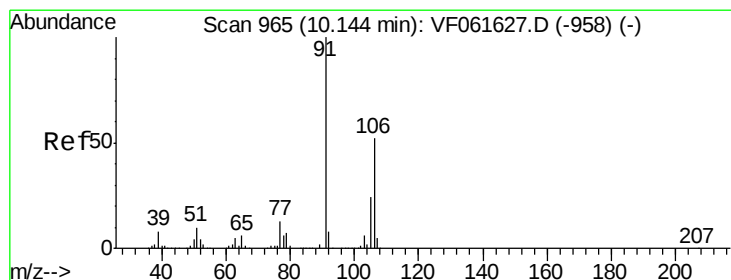
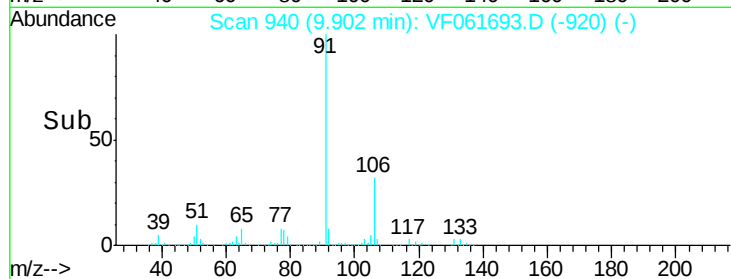
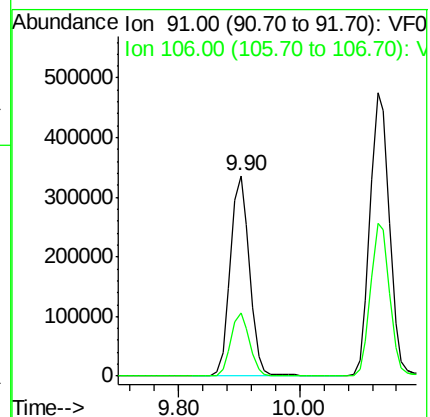
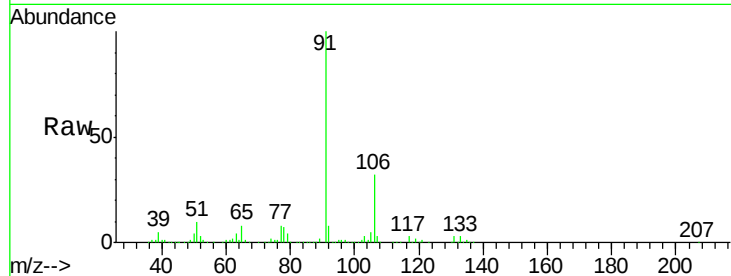
VSTDCCC050

Tot Ion: 91 Resp: 745306

Ion Ratio Lower Upper

91 100

106 31.7 24.1 36.1



#68

m/p-Xylenes

Concen: 104.286 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061693.D

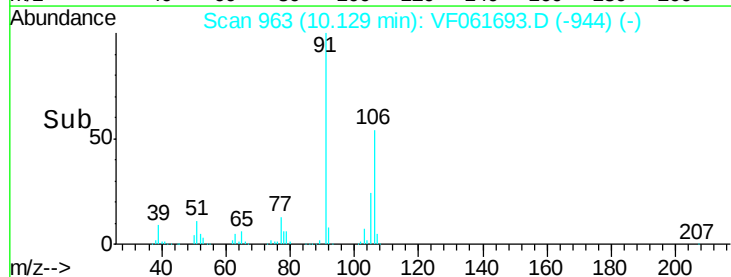
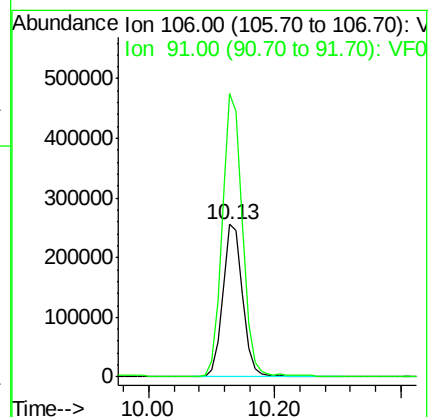
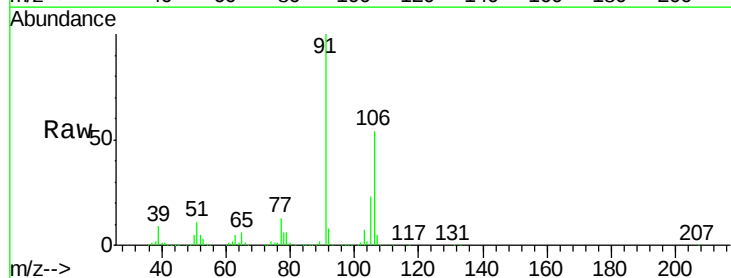
Acq: 21 Feb 2019 12:33

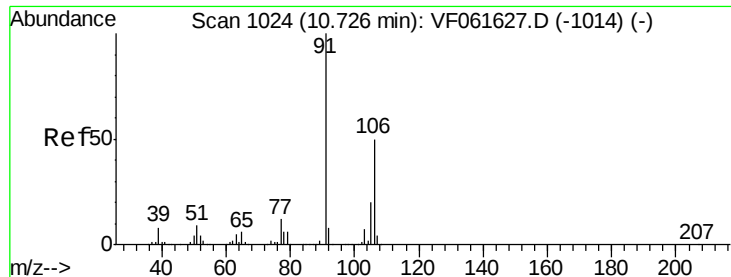
Tgt Ion: 106 Resp: 570331

Ion Ratio Lower Upper

106 100

91 185.8 153.0 229.6

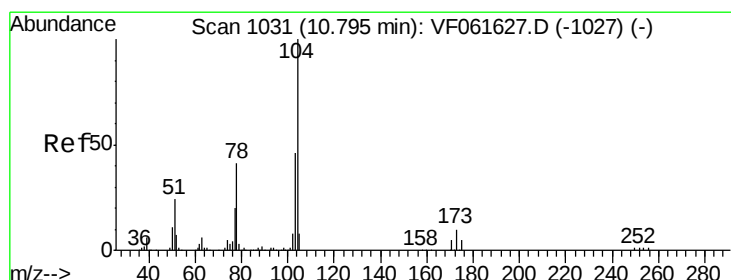
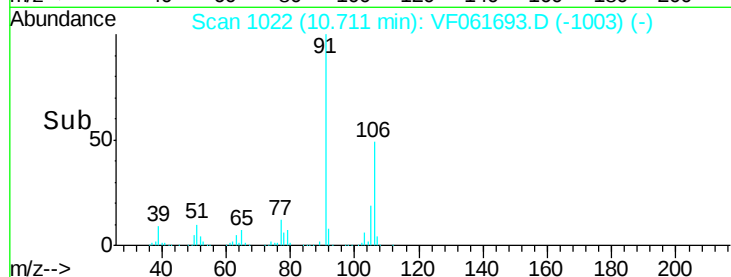
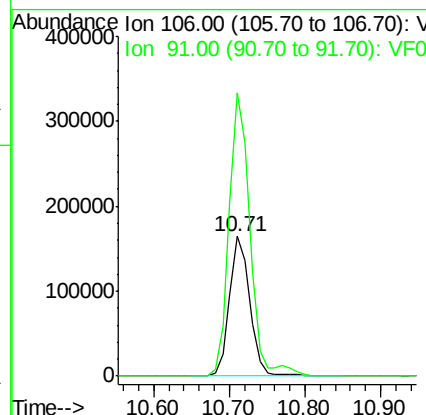
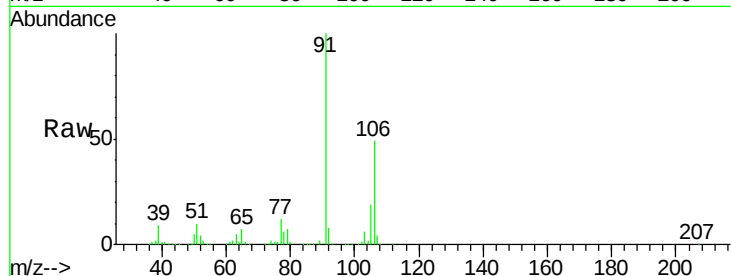




#69
o-Xylene
Concen: 52.015 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

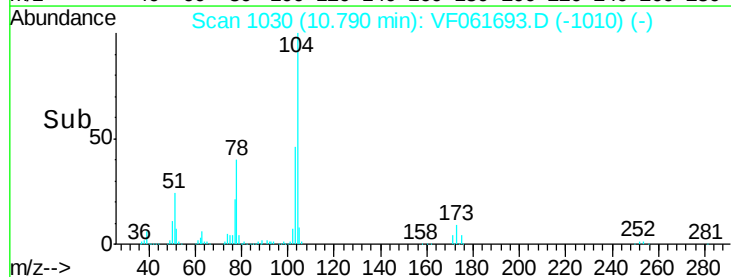
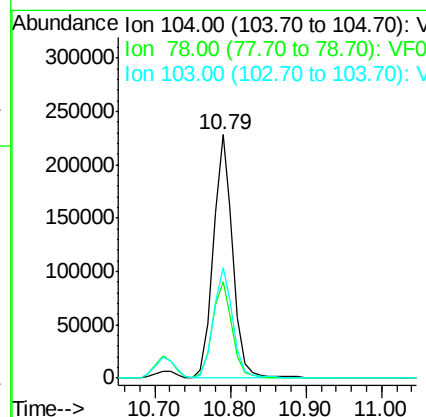
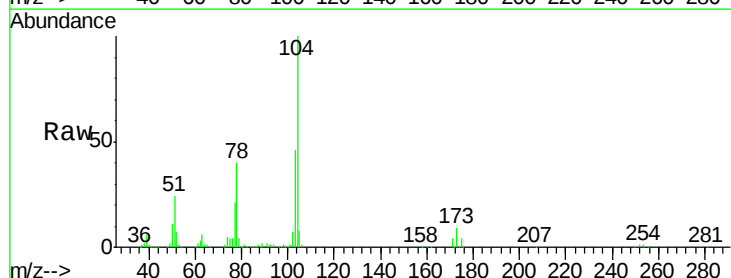
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

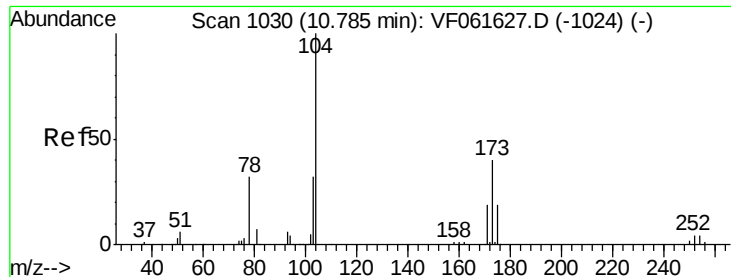
Tot Ion:106 Resp: 303537
Ion Ratio Lower Upper
106 100
91 202.5 100.1 300.1



#70
Styrene
Concen: 49.579 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion:104 Resp: 409297
Ion Ratio Lower Upper
104 100
78 39.6 33.2 49.8
103 45.5 37.2 55.8





#71

Bromoform

Concen: 46.590 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

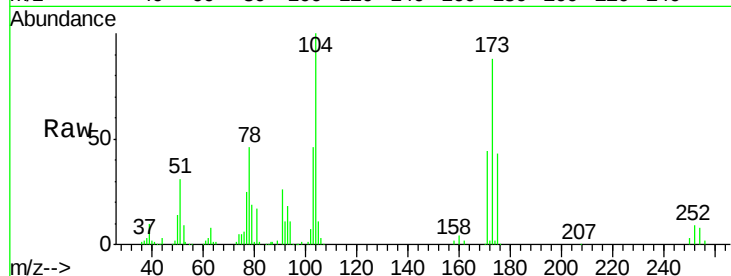
Tot Ion:173 Resp: 85186

Ion Ratio Lower Upper

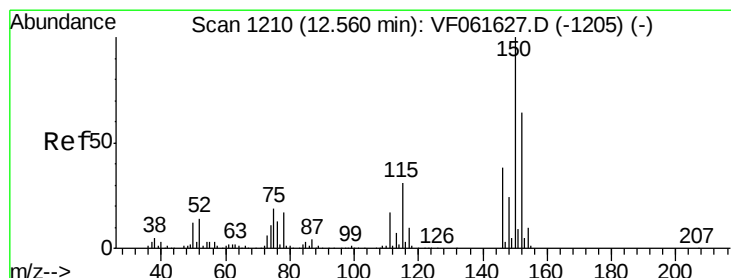
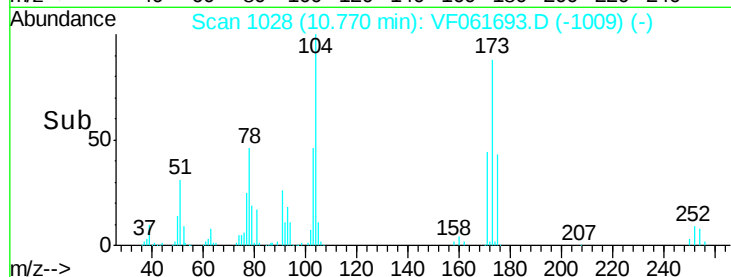
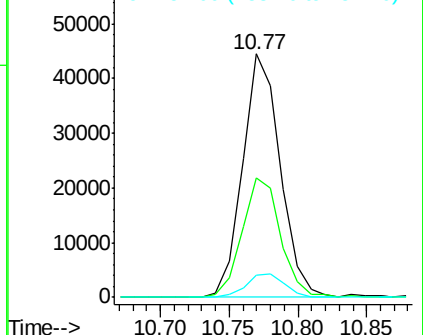
173 100

175 49.3 24.0 72.0

254 9.2 8.2 12.2



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

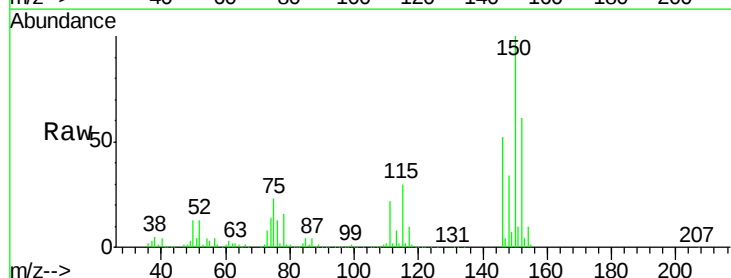
Tgt Ion:152 Resp: 232728

Ion Ratio Lower Upper

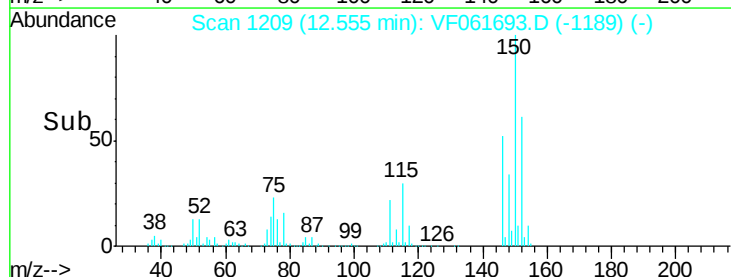
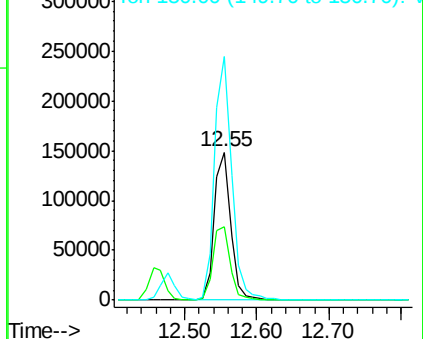
152 100

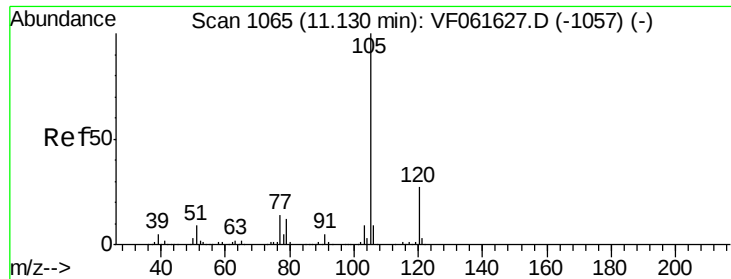
115 49.3 24.3 72.8

150 164.3 0.0 312.0



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

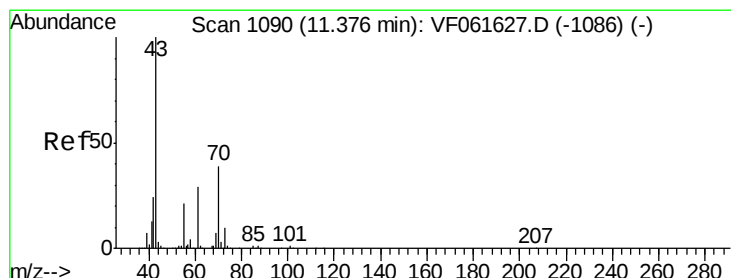
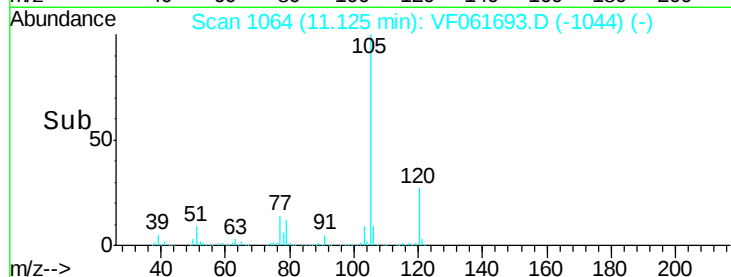
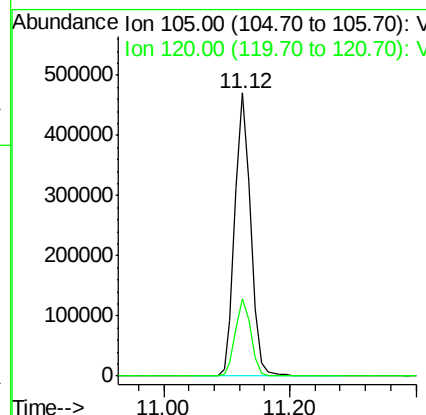
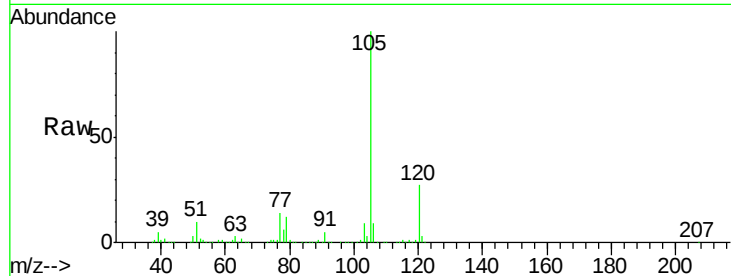




#73
Isopropylbenzene
Concen: 49.013 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

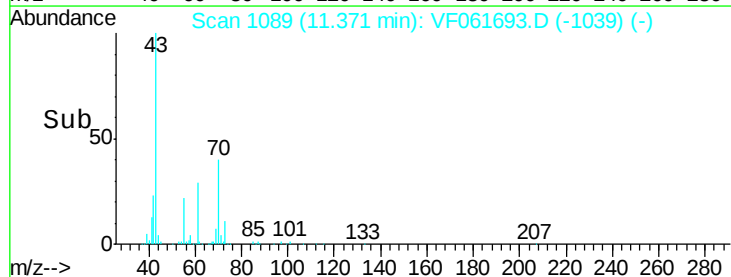
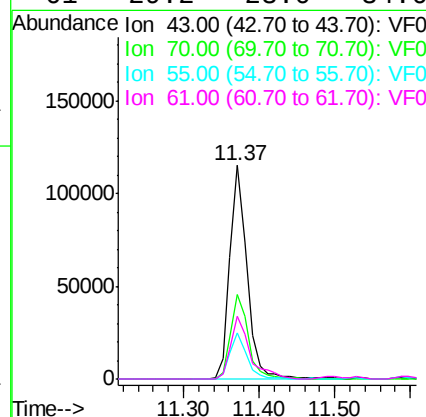
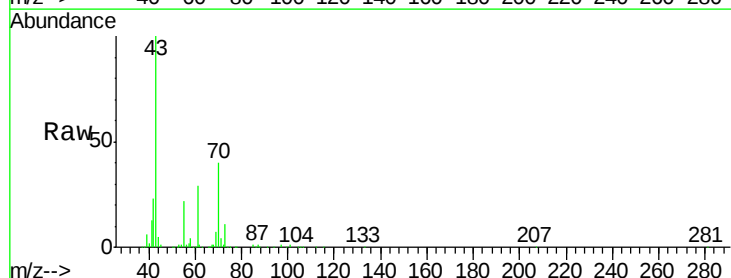
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

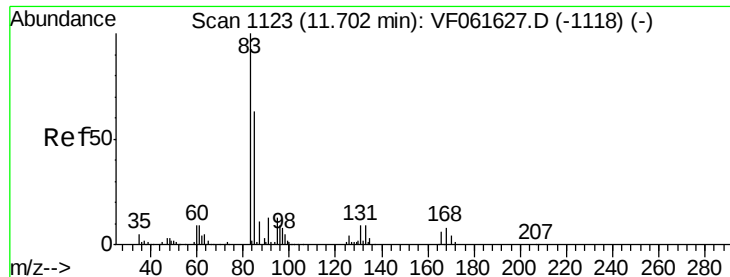
Tot Ion:105 Resp: 812135
Ion Ratio Lower Upper
105 100
120 27.1 13.4 40.1



#74
N-ethyl acetate
Concen: 46.032 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 43 Resp: 183076
Ion Ratio Lower Upper
43 100
70 39.7 31.5 47.3
55 21.7 16.7 25.1
61 29.2 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 44.204 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

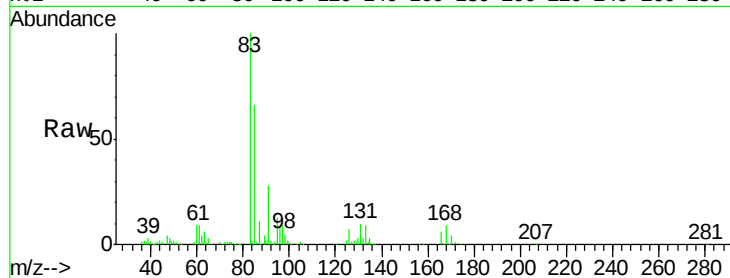
Tot Ion: 83 Resp: 131221

Ion Ratio Lower Upper

83 100

131 10.2 4.4 13.2

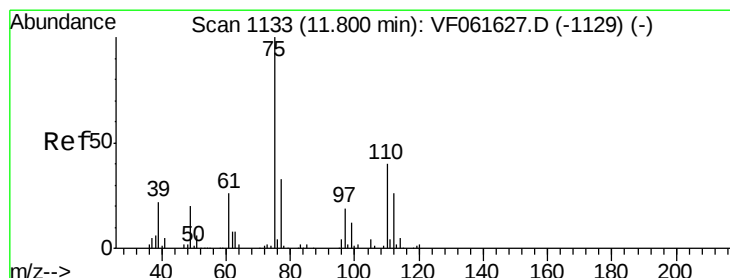
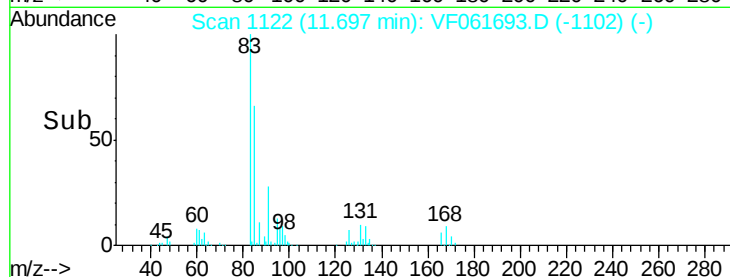
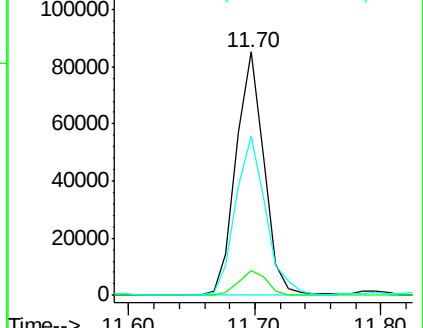
85 65.6 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 43.221 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF061693.D

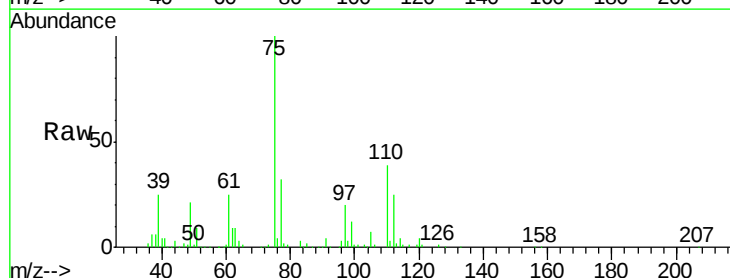
Acq: 21 Feb 2019 12:33

Tgt Ion: 75 Resp: 87232

Ion Ratio Lower Upper

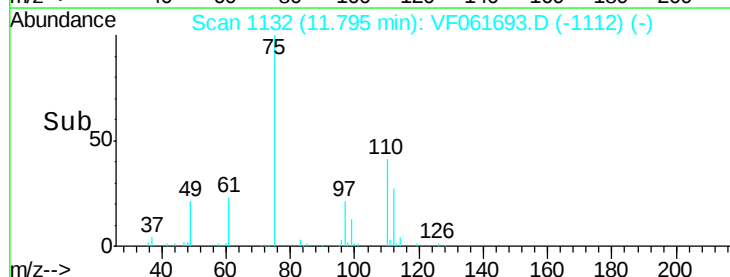
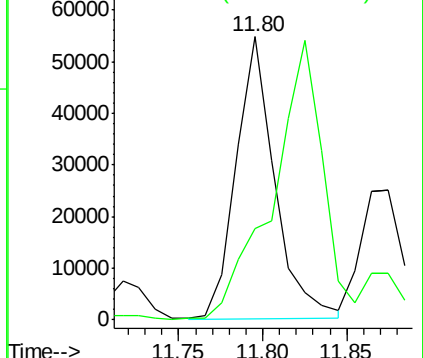
75 100

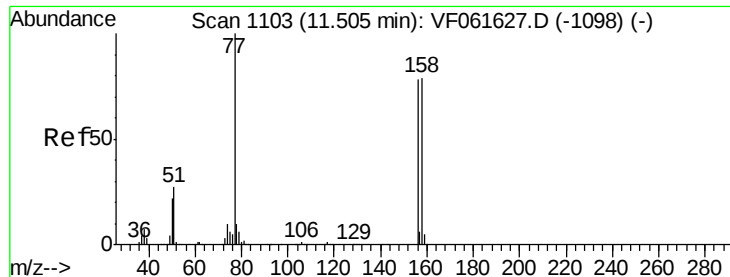
77 32.2 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 49.342 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

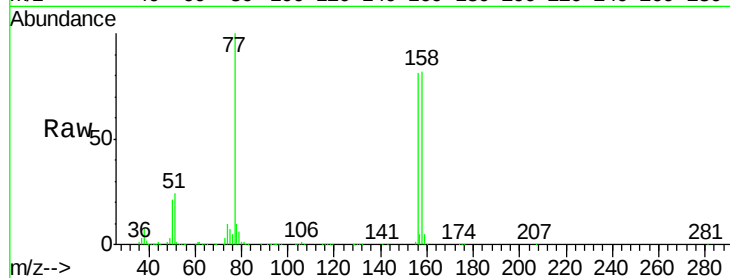
Tot Ion:156 Resp: 201981

Ion Ratio Lower Upper

156 100

77 123.1 64.3 192.7

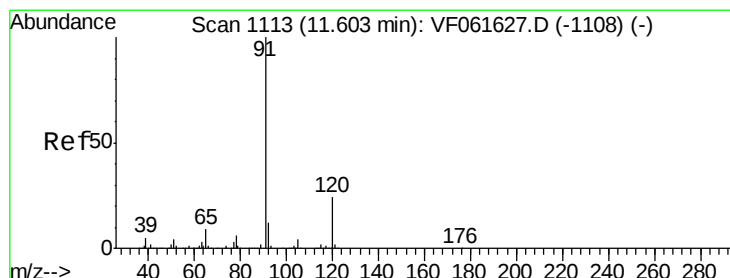
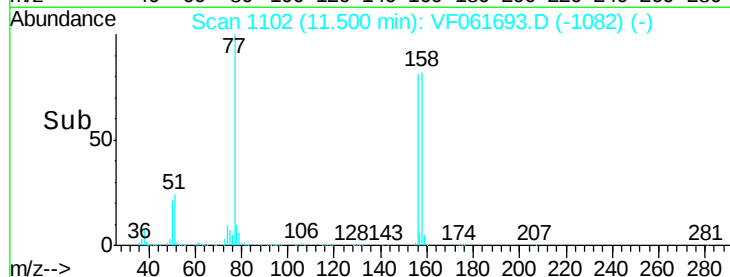
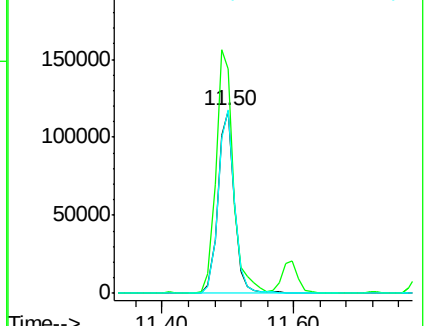
158 100.8 50.9 152.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 49.653 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061693.D

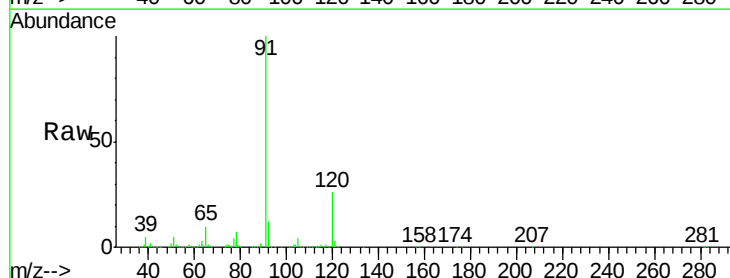
Acq: 21 Feb 2019 12:33

Tgt Ion: 91 Resp: 944111

Ion Ratio Lower Upper

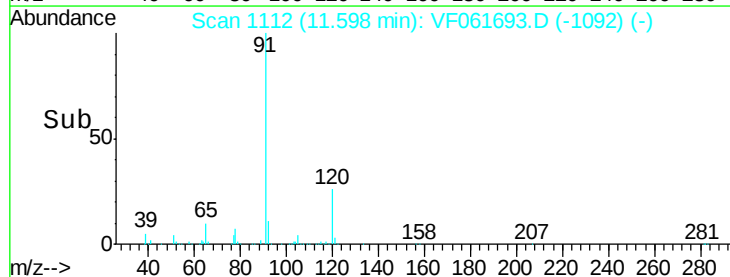
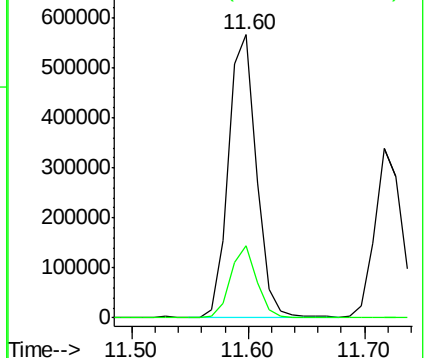
91 100

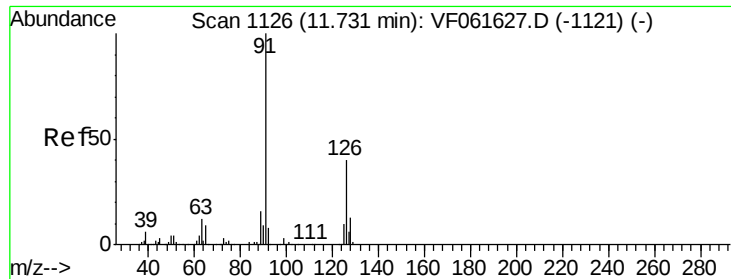
120 25.5 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.507 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

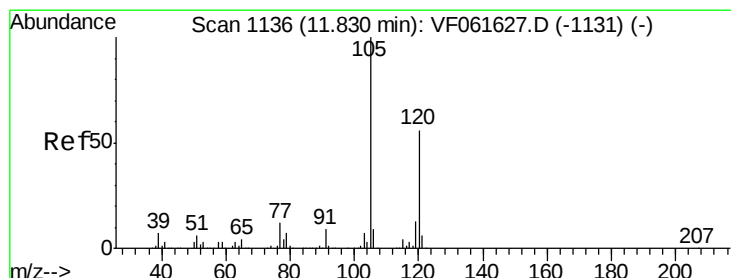
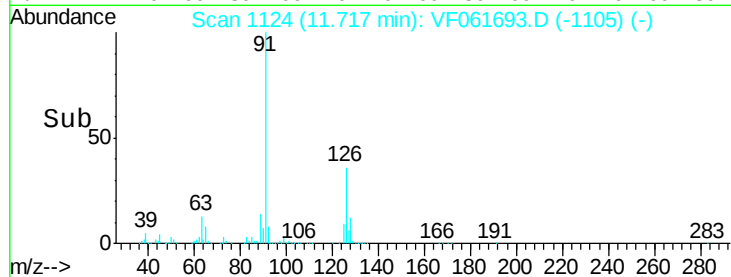
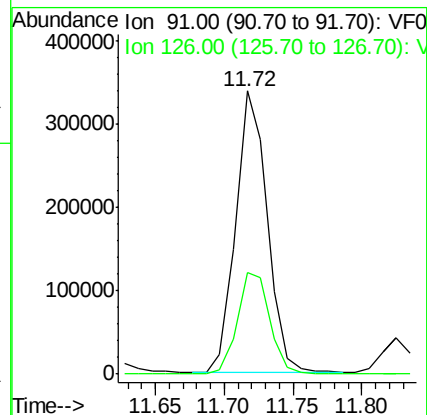
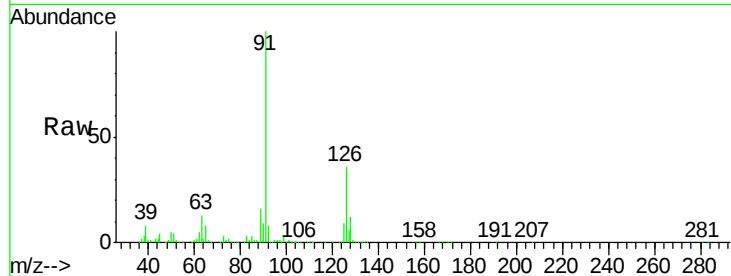
VSTDCCC050

Tot Ion: 91 Resp: 537844

Ion Ratio Lower Upper

91 100

126 35.9 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 50.951 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061693.D

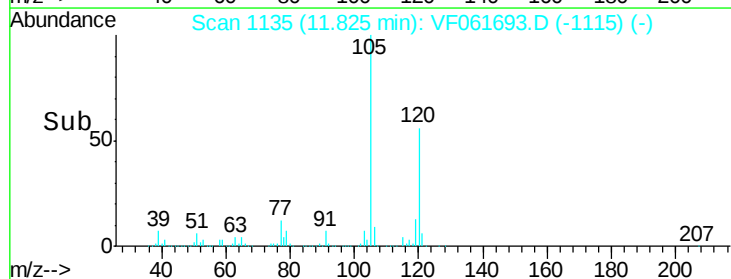
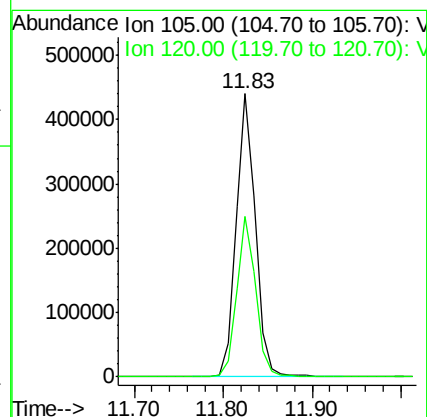
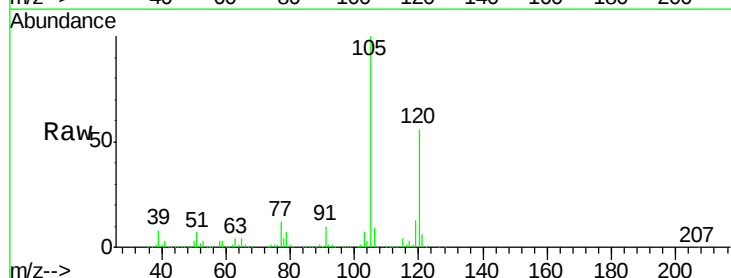
Acq: 21 Feb 2019 12:33

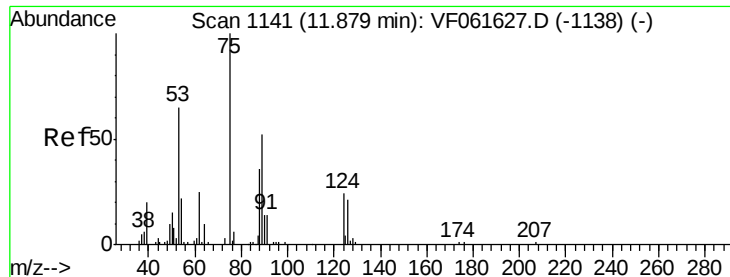
Tgt Ion: 105 Resp: 674762

Ion Ratio Lower Upper

105 100

120 56.5 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 59.534 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

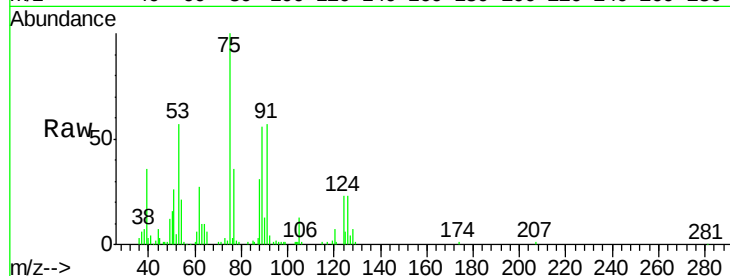
Tot Ion: 75 Resp: 57604

Ion Ratio Lower Upper

75 100

53 57.4 53.7 80.5

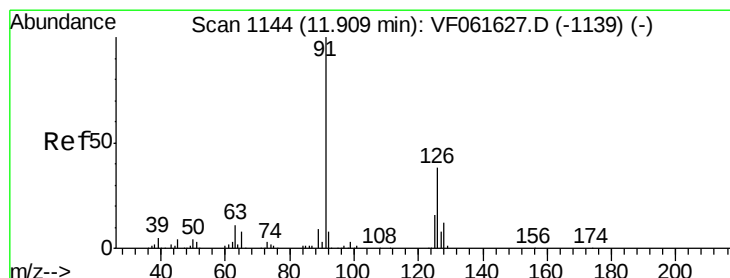
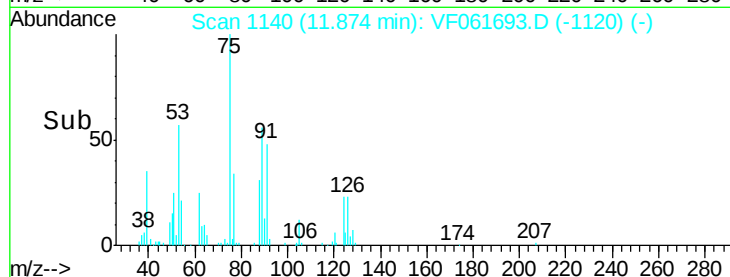
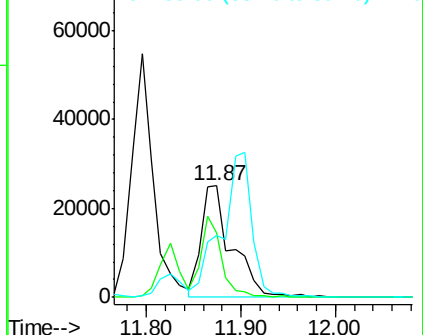
89 55.7 41.6 62.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 48.095 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF061693.D

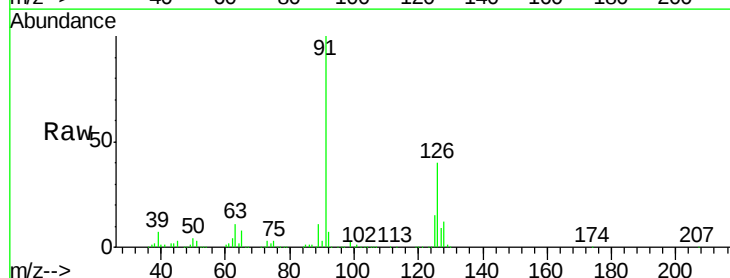
Acq: 21 Feb 2019 12:33

Tgt Ion: 91 Resp: 531593

Ion Ratio Lower Upper

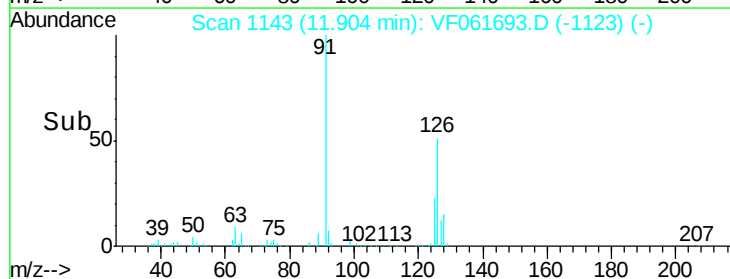
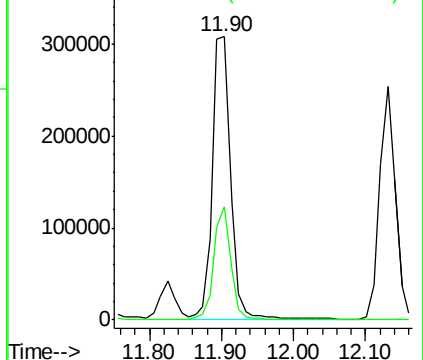
91 100

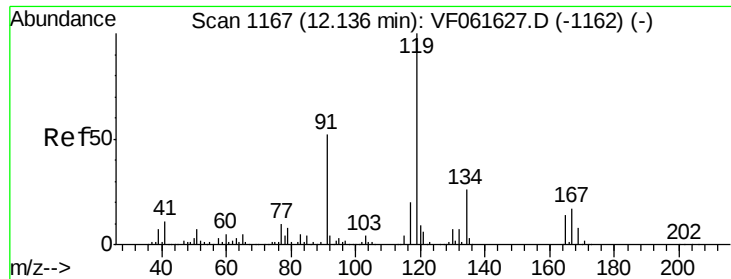
126 40.0 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

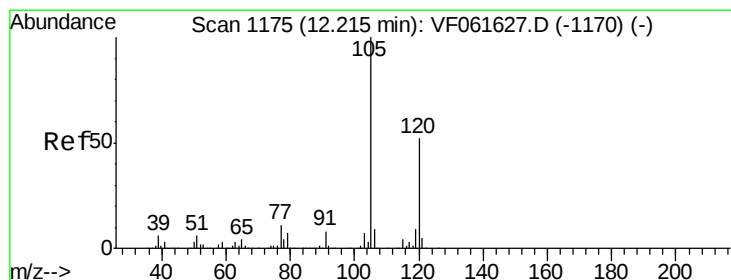
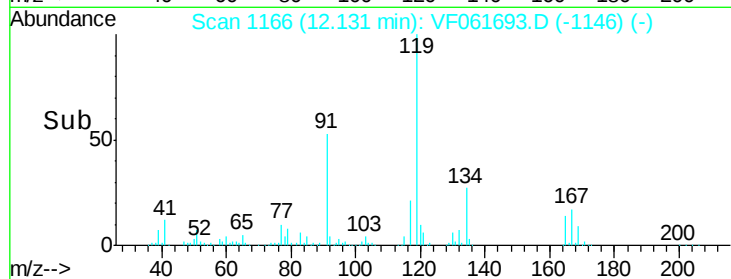
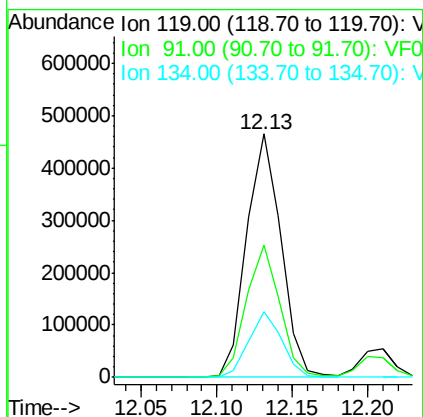
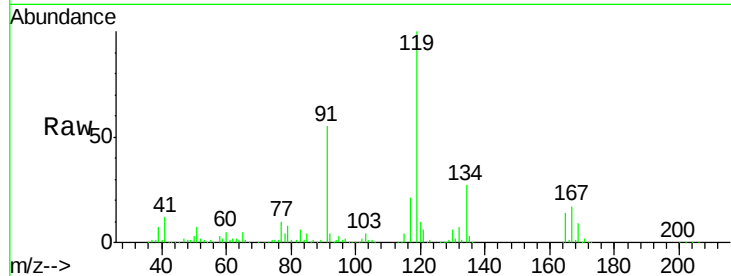




#83
tert-Butylbenzene
Concen: 50.541 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

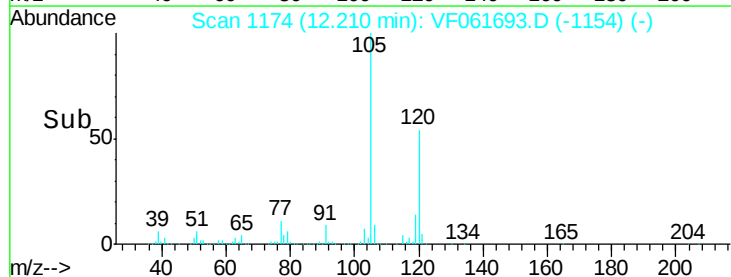
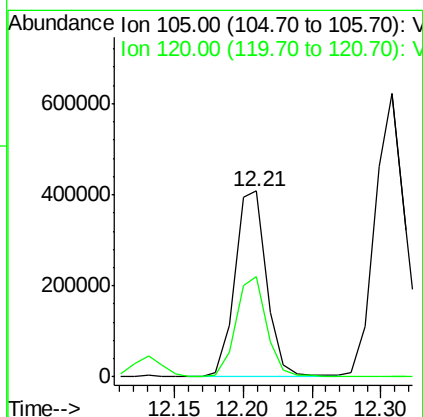
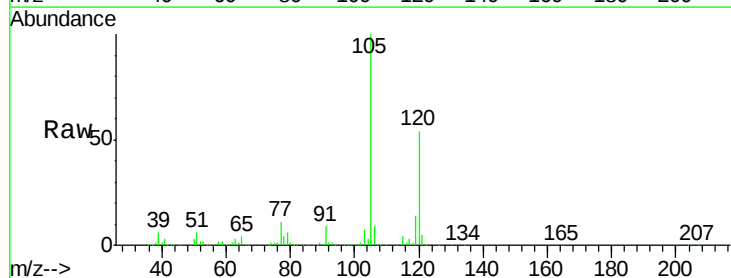
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

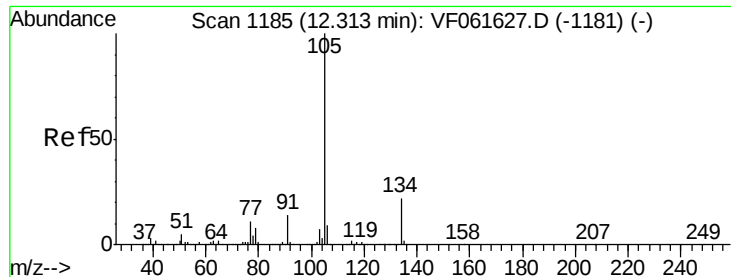
Tot Ion:119 Resp: 741355
Ion Ratio Lower Upper
119 100
91 54.5 26.3 78.8
134 27.0 12.9 38.7



#84
1,2,4-Trimethylbenzene
Concen: 49.741 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion:105 Resp: 654444
Ion Ratio Lower Upper
105 100
120 54.2 26.1 78.3





#85

sec-Butylbenzene

Concen: 50.197 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

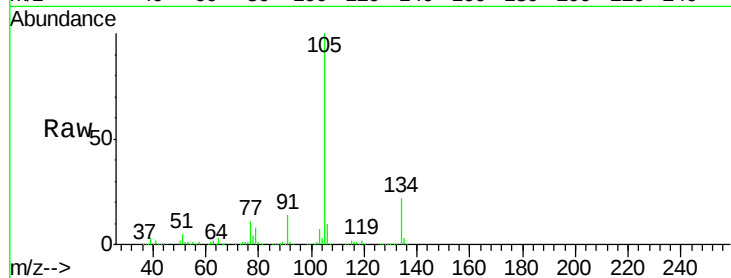
VSTDCCC050

Tot Ion:105 Resp: 952164

Ion Ratio Lower Upper

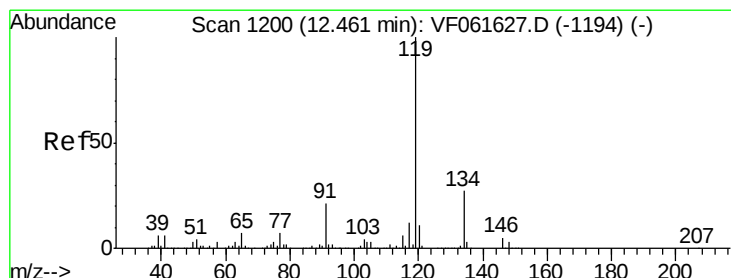
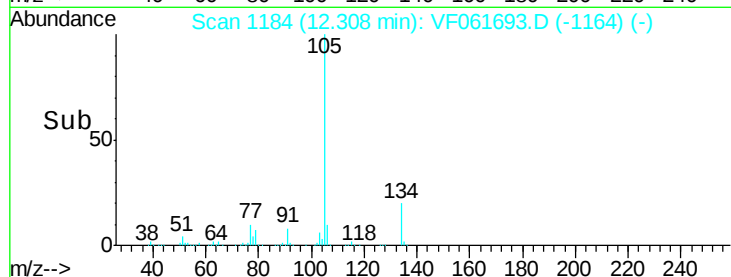
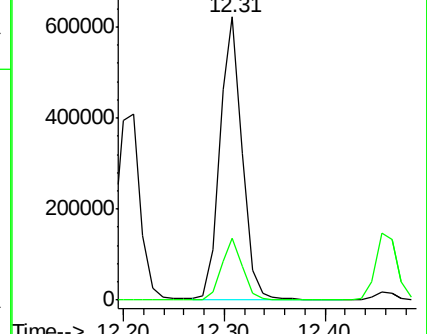
105 100

134 22.0 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.148 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

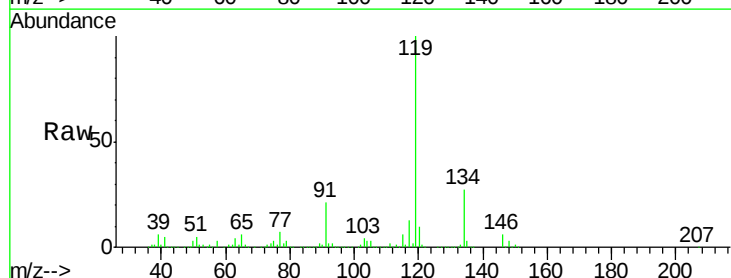
Tgt Ion:119 Resp: 814227

Ion Ratio Lower Upper

119 100

134 27.3 13.7 41.1

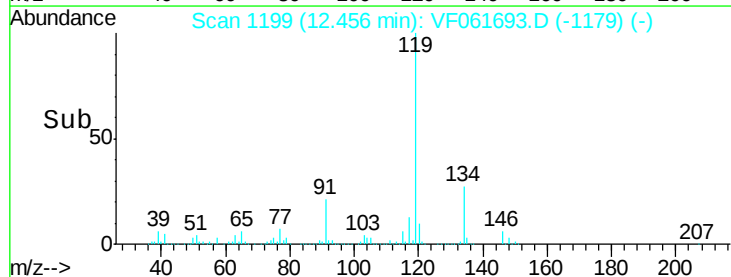
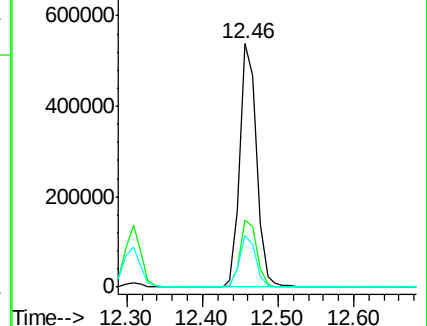
91 21.3 10.8 32.4

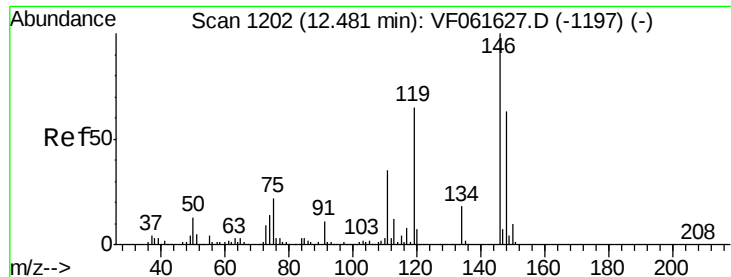


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

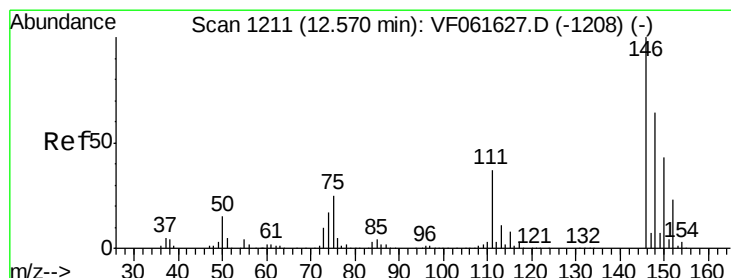
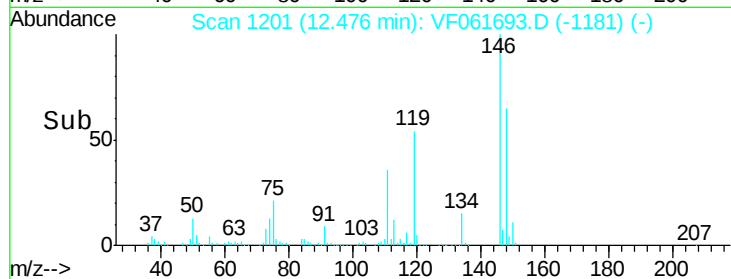
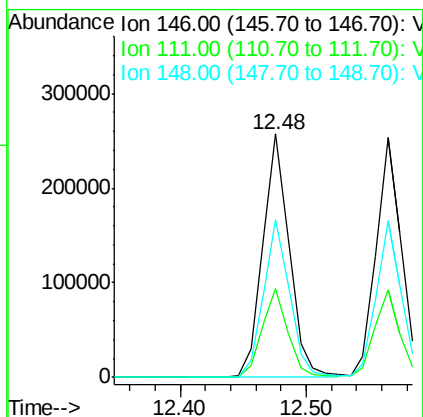
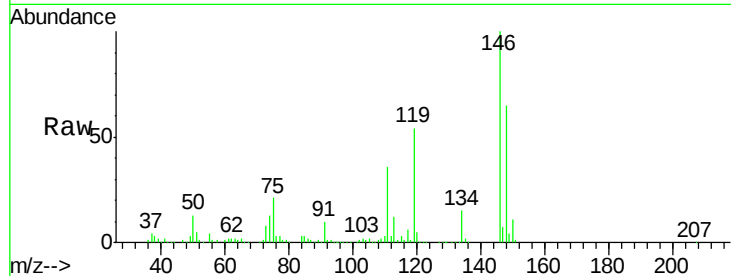




#87
 1,3-Dichlorobenzene
 Concen: 47.591 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

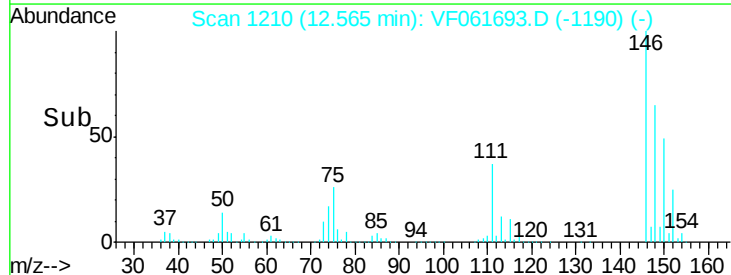
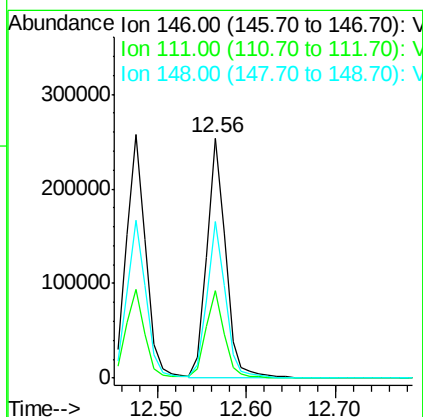
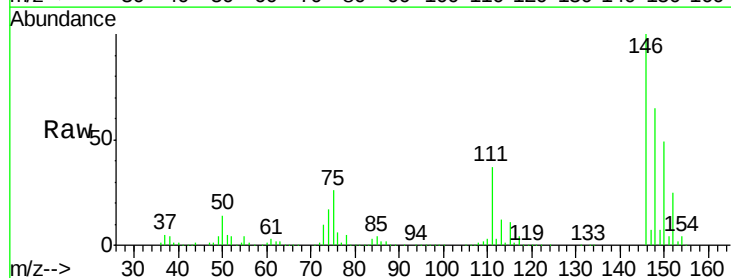
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

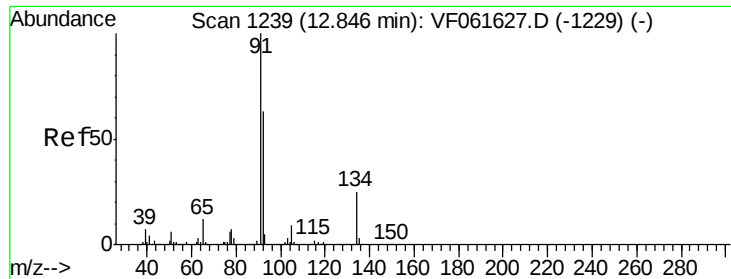
Tot Ion:146 Resp: 379788
 Ion Ratio Lower Upper
 146 100
 111 36.3 17.5 52.6
 148 64.9 31.4 94.3



#88
 1,4-Dichlorobenzene
 Concen: 47.969 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion:146 Resp: 368152
 Ion Ratio Lower Upper
 146 100
 111 36.6 18.4 55.4
 148 65.2 32.2 96.6

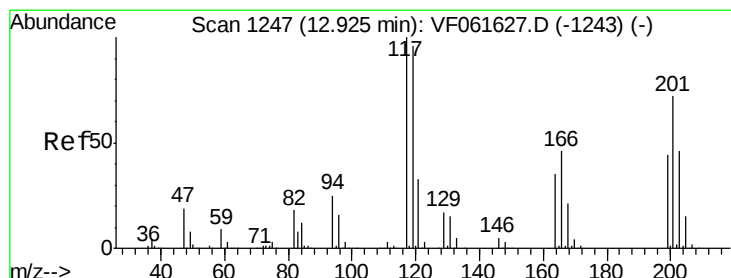
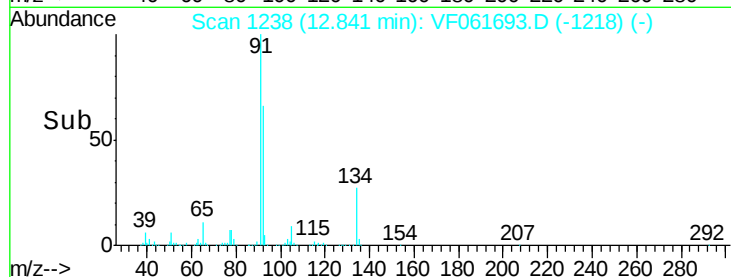
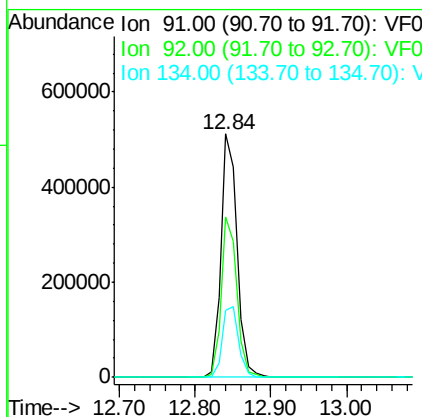
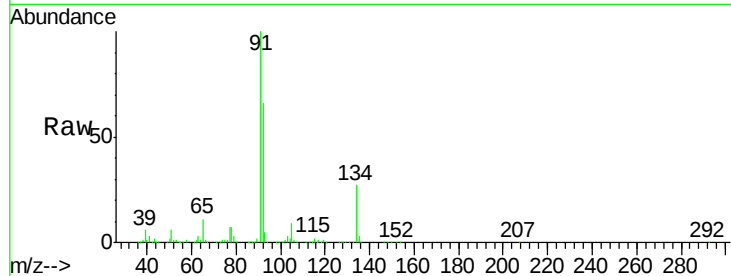




#89
n-Butylbenzene
Concen: 50.932 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

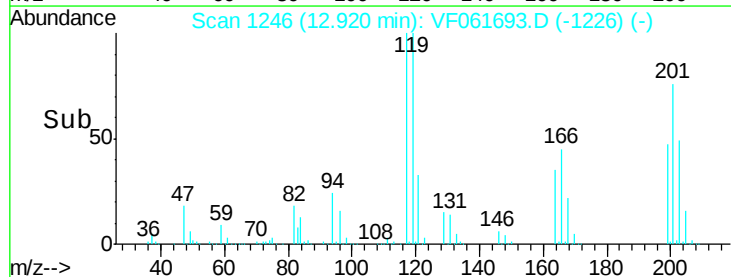
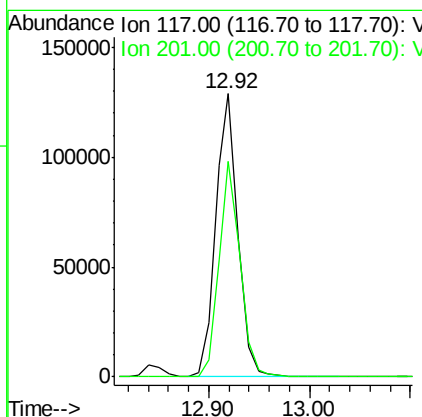
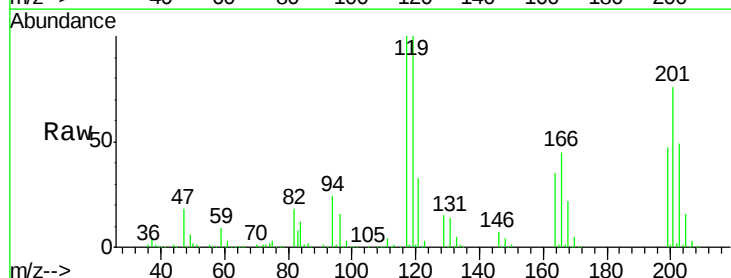
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

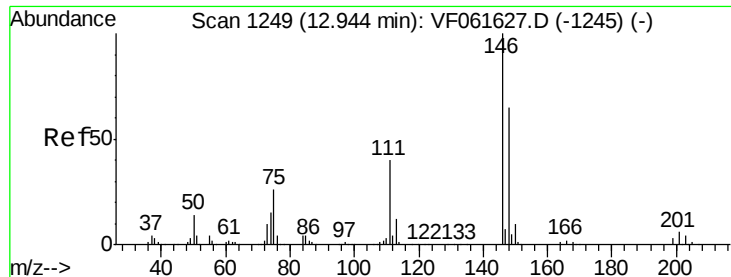
Tot Ion: 91 Resp: 765612
Ion Ratio Lower Upper
91 100
92 65.9 31.4 94.3
134 27.4 12.3 36.9



#90
Hexachloroethane
Concen: 53.255 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 117 Resp: 197168
Ion Ratio Lower Upper
117 100
201 76.3 36.2 108.6

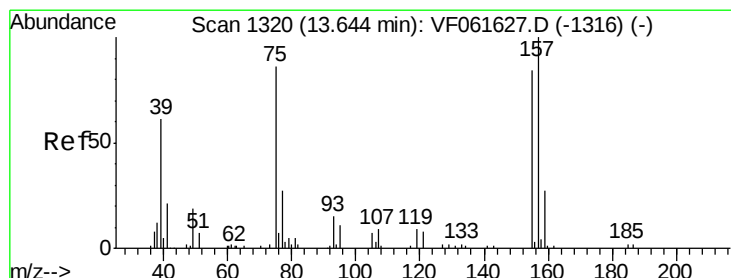
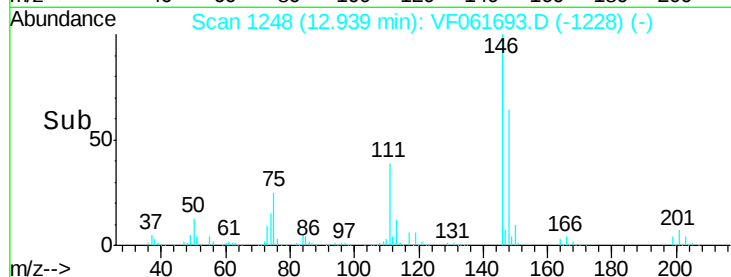
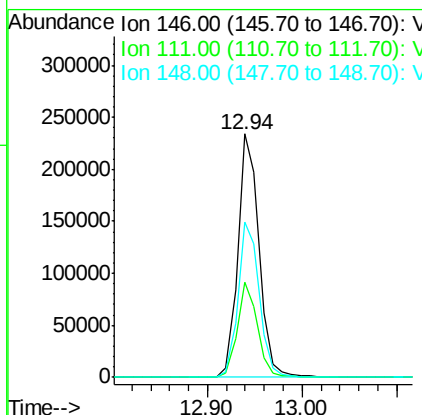
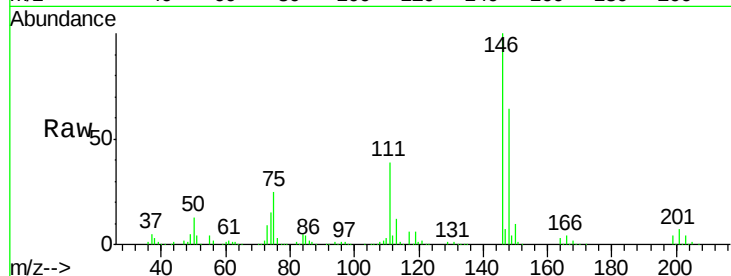




#91
 1,2-Dichlorobenzene
 Concen: 47.522 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

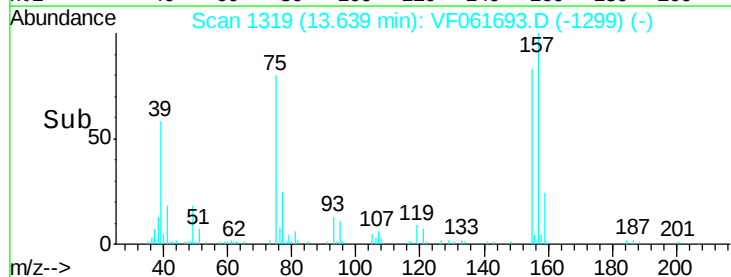
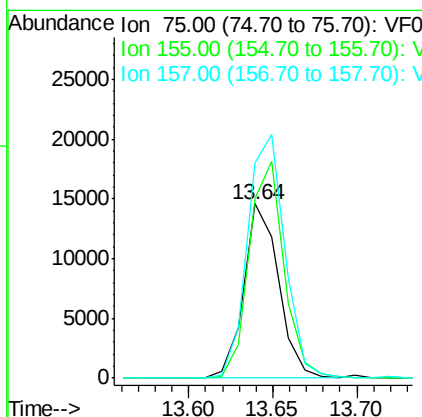
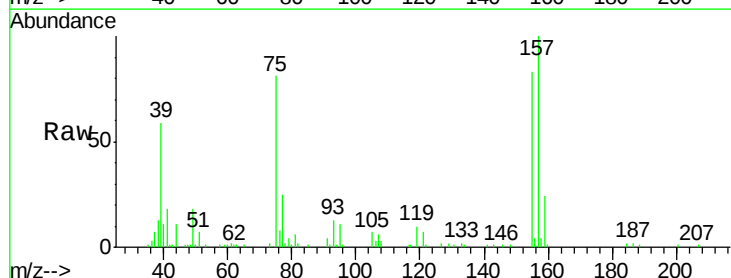
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

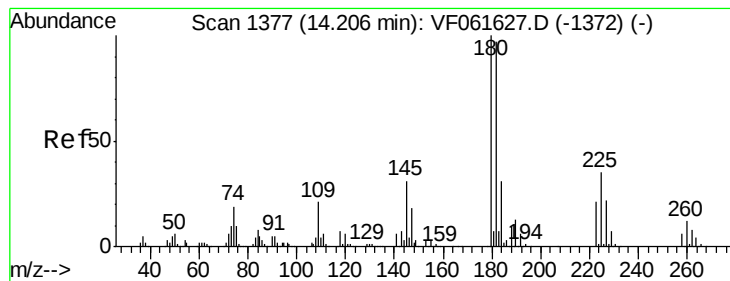
Tot Ion:146 Resp: 360713
 Ion Ratio Lower Upper
 146 100
 111 38.8 20.2 60.5
 148 63.8 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 44.451 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion: 75 Resp: 20921
 Ion Ratio Lower Upper
 75 100
 155 103.1 48.9 146.8
 157 123.8 58.3 174.8





#93

1,2,4-Trichlorobenzene

Concen: 48.433 ug/l

RT: 14.20 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

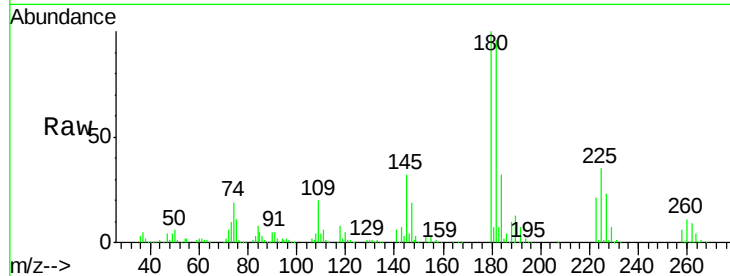
Tot Ion:180 Resp: 263508

Ion Ratio Lower Upper

180 100

182 96.2 48.6 145.9

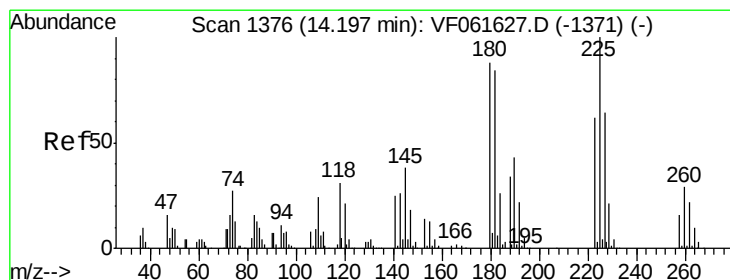
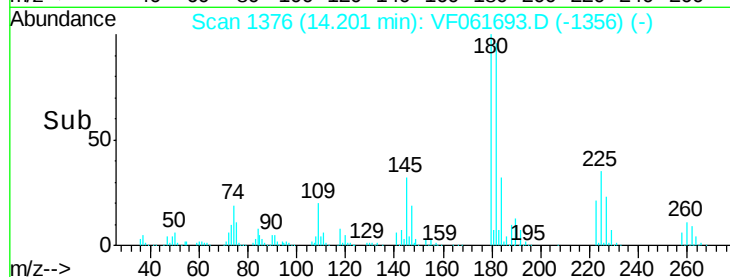
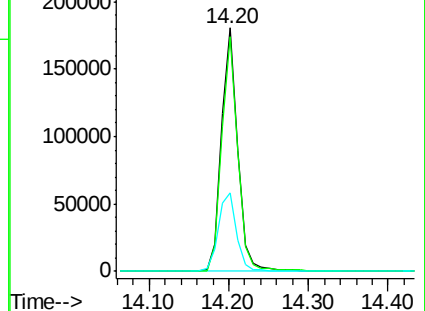
145 32.1 15.3 45.9



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: 53.152 ug/l

RT: 14.19 min Scan# 1375

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

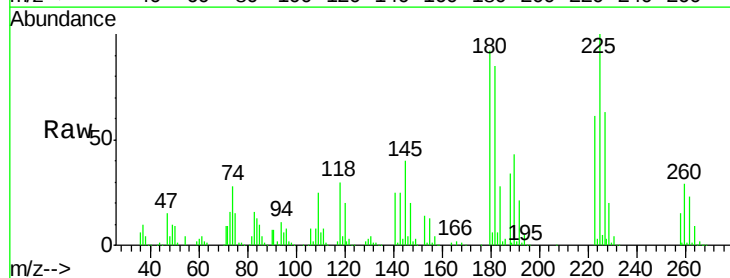
Tgt Ion:225 Resp: 178601

Ion Ratio Lower Upper

225 100

223 61.2 30.9 92.7

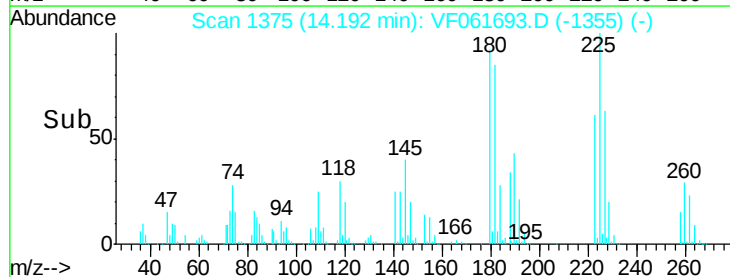
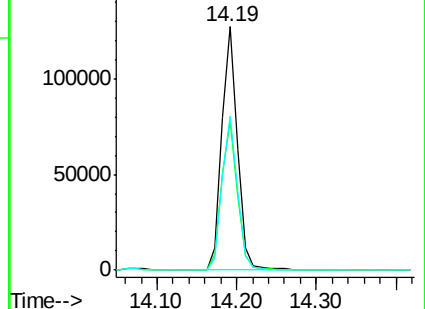
227 63.2 32.1 96.3

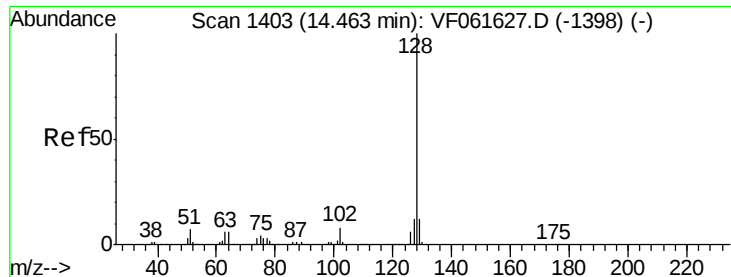


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V

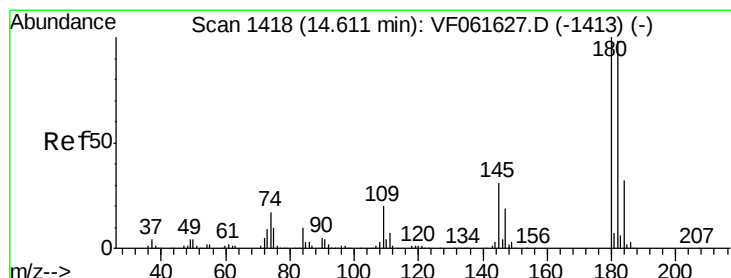
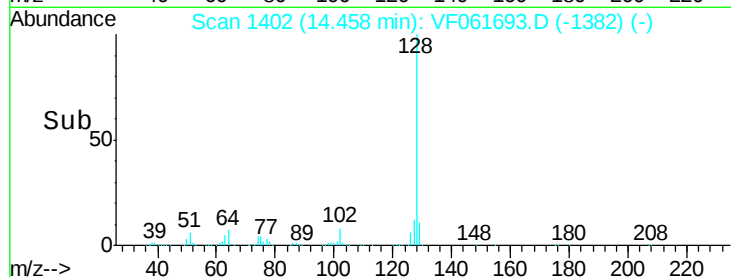
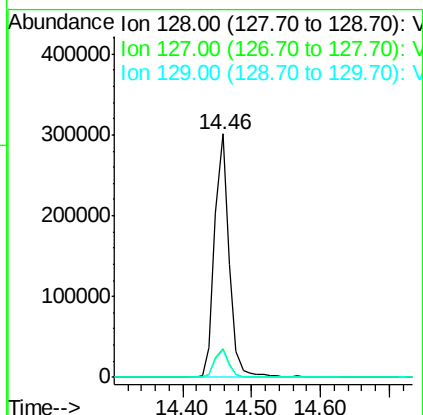
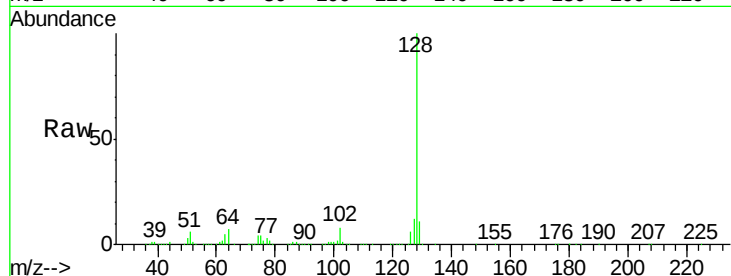




#95
Naphthalene
Concen: 46.535 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 442977
Ion Ratio Lower Upper
128 100
127 11.7 9.8 14.6
129 11.3 9.4 14.2



#96
1,2,3-Trichlorobenzene
Concen: 48.873 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion:180 Resp: 244058
Ion Ratio Lower Upper
180 100
182 94.2 49.0 147.2
145 28.5 15.4 46.1

