

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031419\
 Data File : VF061937.D
 Acq On : 14 Mar 2019 14:11
 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: Mar 15 01:35:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	302490	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	450613	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	379247	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	199816	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	113391	51.47	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	102.94%	
35) Dibromofluoromethane	4.10	113	164721	52.38	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	104.76%	
50) Toluene-d8	7.54	98	485332	51.92	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	103.84%	
62) 4-Bromofluorobenzene	11.40	95	172169	47.02	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	94.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	166037	44.710	ug/l	93
3) Chloromethane	1.10	50	181948	50.554	ug/l	95
4) Vinyl Chloride	1.13	62	177079	51.829	ug/l	98
5) Bromomethane	1.31	94	119884	51.487	ug/l	97
6) Chloroethane	1.39	64	85837	52.853	ug/l	100
7) Trichlorofluoromethane	1.47	101	215046	51.535	ug/l	97
8) Diethyl Ether	1.63	74	48246	50.844	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	1.83	101	149863	52.886	ug/l	99
10) Methyl Iodide	1.91	142	272422m	50.519	ug/l	
11) Tert butyl alcohol	2.56	59	30829	246.567	ug/l	98
12) 1,1-Dichloroethene	1.79	96	133943	51.775	ug/l	91
13) Acrolein	2.00	56	41702	263.219	ug/l	98
14) Allyl chloride	2.09	41	169314	59.408	ug/l	96
15) Acrylonitrile	2.94	53	103759	260.611	ug/l	97
16) Acetone	2.23	43	140169	303.766	ug/l	99
17) Carbon Disulfide	1.82	76	403748m	50.137	ug/l	
18) Methyl Acetate	2.34	43	61059	66.494	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	227125	51.898	ug/l	96
20) Methylene Chloride	2.18	84	133882m	52.497	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	138495	56.881	ug/l	91
22) Diisopropyl ether	2.79	45	400356	54.002	ug/l	97
23) Vinyl Acetate	3.17	43	891281	269.111	ug/l	100
24) 1,1-Dichloroethane	2.87	63	229229	51.730	ug/l	99
25) 2-Butanone	4.33	43	252798	269.333	ug/l #	90
26) 2,2-Dichloropropane	3.59	77	107623	54.406	ug/l	99
27) cis-1,2-Dichloroethene	3.46	96	176422	52.300	ug/l	99
28) Bromochloromethane	3.71	49	98821	51.160	ug/l #	94
29) Tetrahydrofuran	4.06	42	100963	249.419	ug/l	98
30) Chloroform	3.84	83	258897	51.151	ug/l	95
31) Cyclohexane	3.69	56	232193m	50.028	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	180678	57.913	ug/l	97
36) 1,1-Dichloropropene	4.27	75	212001	49.806	ug/l	98
37) Ethyl Acetate	4.10	43	84479	47.284	ug/l	100
38) Carbon Tetrachloride	3.98	117	150555	49.965	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	255263	50.772	ug/l	96
40) Benzene	4.62	78	574314	51.618	ug/l	98
41) Methacrylonitrile	4.73	41	51033	52.135	ug/l	97
42) 1,2-Dichloroethane	4.93	62	140149	50.545	ug/l	98
43) Isopropyl Acetate	6.95	43	107501	48.813	ug/l #	96
44) Trichloroethene	5.49	130	174032	50.333	ug/l	100
45) 1,2-Dichloropropane	6.22	63	135406	51.180	ug/l	95
46) Dibromomethane	6.07	93	84300	50.627	ug/l	96
47) Bromodichloromethane	6.38	83	188750	51.310	ug/l	96
48) Methyl methacrylate	6.71	41	70690	50.718	ug/l	90
49) 1,4-Dioxane	6.69	88	13037	1023.215	ug/l #	81
51) 4-Methyl-2-Pentanone	8.25	43	393079	258.250	ug/l	96
52) Toluene	7.61	92	320091	48.632	ug/l	98
53) t-1,3-Dichloropropene	8.27	75	157052	51.721	ug/l	95
54) cis-1,3-Dichloropropene	7.29	75	210125	50.169	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	94245	49.696	ug/l	97
56) Ethyl methacrylate	8.61	69	103599	48.473	ug/l	99
57) 1,3-Dichloropropane	8.84	76	157996	50.944	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.29	63	81936	242.346	ug/l	95
59) 2-Hexanone	9.48	43	288342	262.593	ug/l	100
60) Dibromochloromethane	8.71	129	130537	48.295	ug/l	96
61) 1,2-Dibromoethane	8.98	107	102848	49.317	ug/l	98
64) Tetrachloroethene	8.14	164	146502	50.273	ug/l	95
65) Chlorobenzene	9.79	112	369675	50.736	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	148148	52.479	ug/l	97
67) Ethyl Benzene	9.89	91	622123	51.515	ug/l	98
68) m/p-Xylenes	10.13	106	464207	100.340	ug/l	98
69) o-Xylene	10.71	106	265187	53.232	ug/l	99
70) Styrene	10.78	104	357976	51.060	ug/l	98
71) Bromoform	10.77	173	73664	49.373	ug/l	95
73) Isopropylbenzene	11.12	105	701719	51.011	ug/l	98
74) N-amyl acetate	11.37	43	171264	54.079	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	118095	51.653	ug/l	93
76) 1,2,3-Trichloropropane	11.78	75	81509	52.235	ug/l	89
77) Bromobenzene	11.49	156	164680	49.742	ug/l	96
78) n-propylbenzene	11.58	91	791123	50.926	ug/l	99
79) 2-Chlorotoluene	11.71	91	446890	50.317	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	578600	52.388	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	39858m	55.860	ug/l	
82) 4-Chlorotoluene	11.89	91	457988	50.415	ug/l	97
83) tert-Butylbenzene	12.13	119	626661	53.435	ug/l	94
84) 1,2,4-Trimethylbenzene	12.20	105	555481	51.305	ug/l	99
85) sec-Butylbenzene	12.29	105	822593	53.900	ug/l	99
86) p-Isopropyltoluene	12.45	119	696202	53.667	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	319402	50.809	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	312734	51.572	ug/l	98
89) n-Butylbenzene	12.84	91	656919	52.987	ug/l	99
90) Hexachloroethane	12.91	117	162432	52.020	ug/l	97
91) 1,2-Dichlorobenzene	12.94	146	294652	49.472	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	18773	47.489	ug/l	89

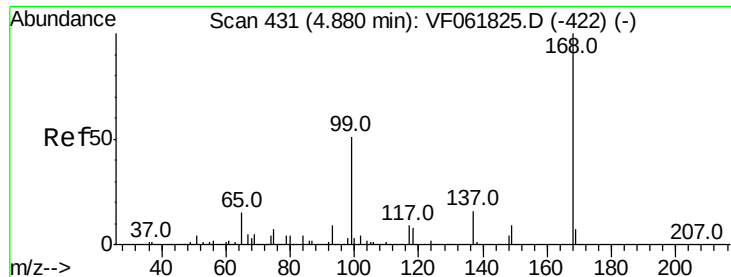
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QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	205109	49.122	ug/l	94
94) Hexachlorobutadiene	14.18	225	135923	47.022	ug/l	97
95) Naphthalene	14.44	128	401957	54.049	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	204271	52.985	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

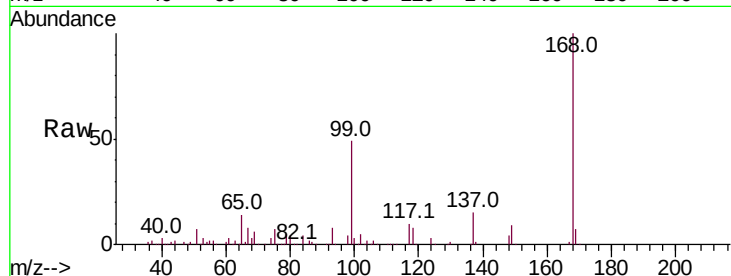
VSTDCCC050

Tot Ion:168 Resp: 302490

Ion Ratio Lower Upper

168 100

99 49.2 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

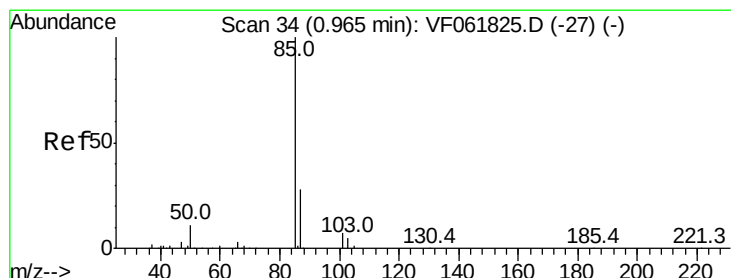
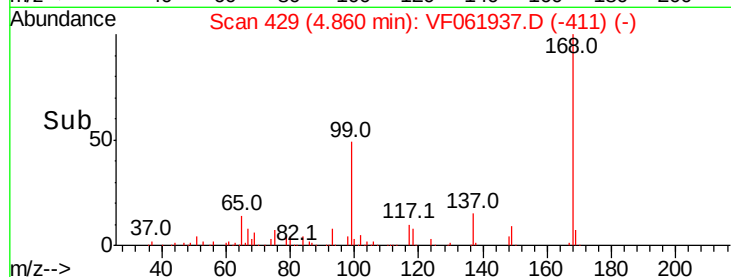
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 44.710 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061937.D

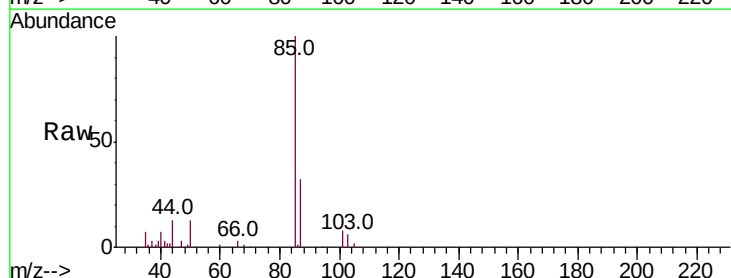
Acq: 14 Mar 2019 14:11

Tgt Ion: 85 Resp: 166037

Ion Ratio Lower Upper

85 100

87 31.6 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

50000

40000

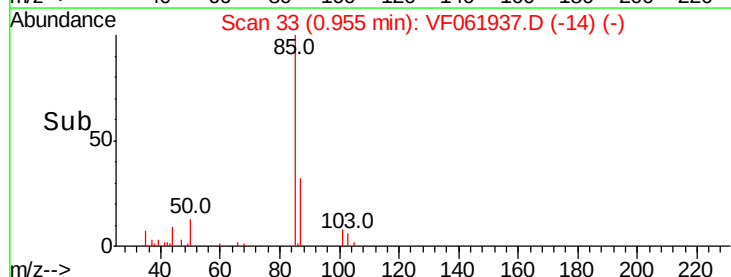
30000

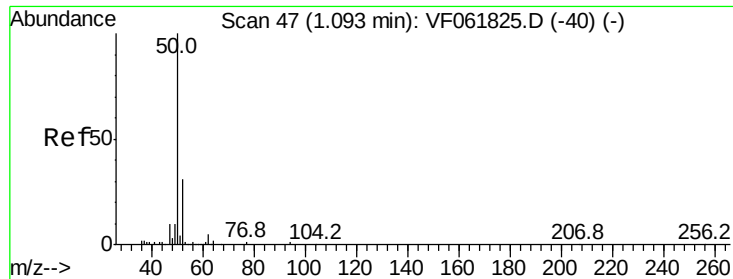
20000

10000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 50.554 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

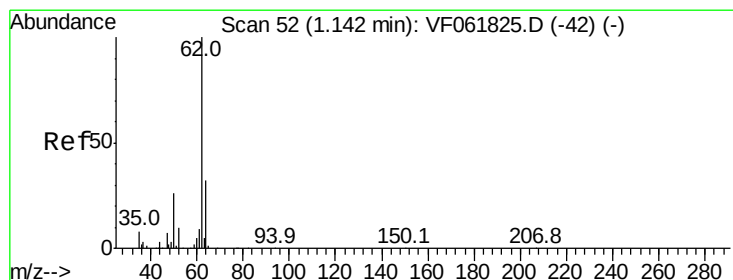
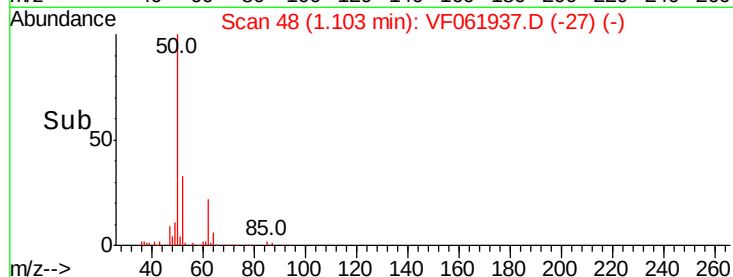
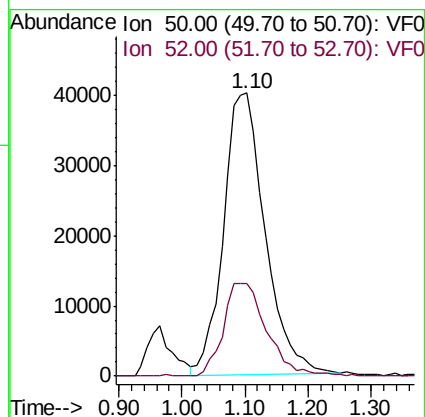
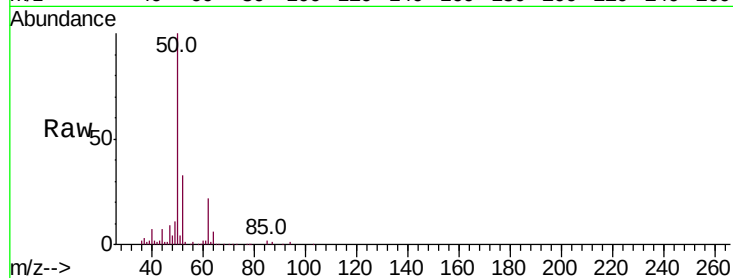
VSTDCCC050

Tot Ion: 50 Resp: 181948

Ion Ratio Lower Upper

50 100

52 32.6 23.8 35.8



#4

Vinyl Chloride

Concen: 51.829 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061937.D

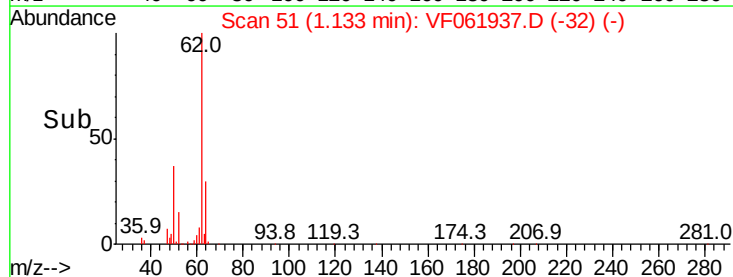
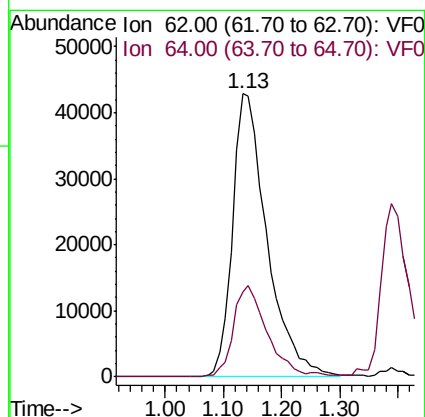
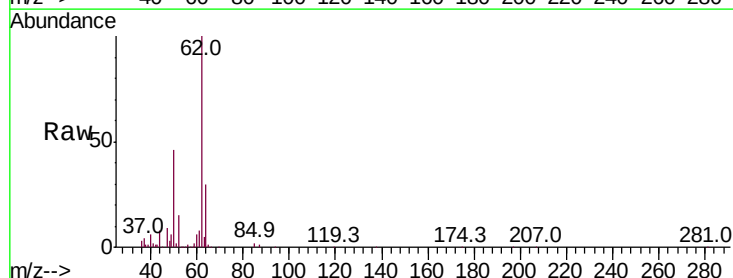
Acq: 14 Mar 2019 14:11

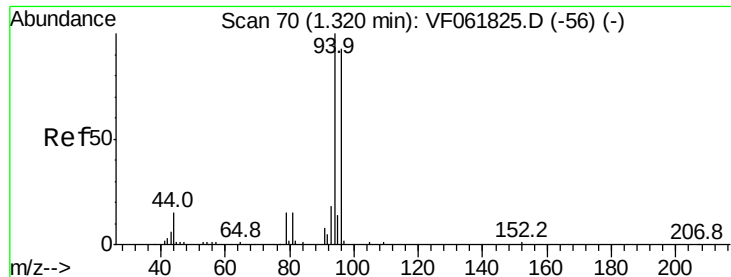
Tgt Ion: 62 Resp: 177079

Ion Ratio Lower Upper

62 100

64 30.2 25.2 37.8





#5

Bromomethane

Concen: 51.487 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

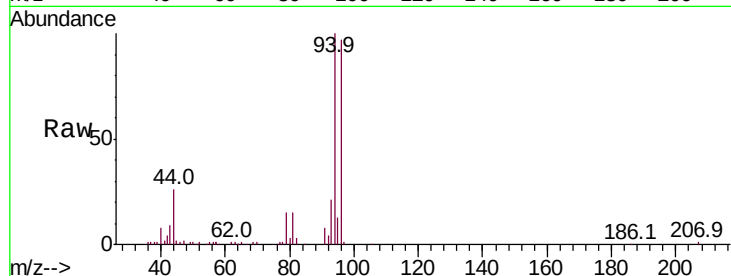
VSTDCCC050

Tot Ion: 94 Resp: 119884

Ion Ratio Lower Upper

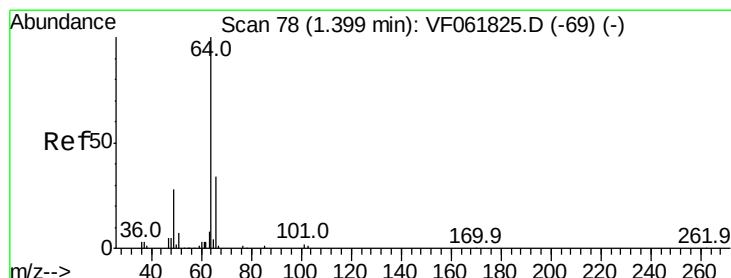
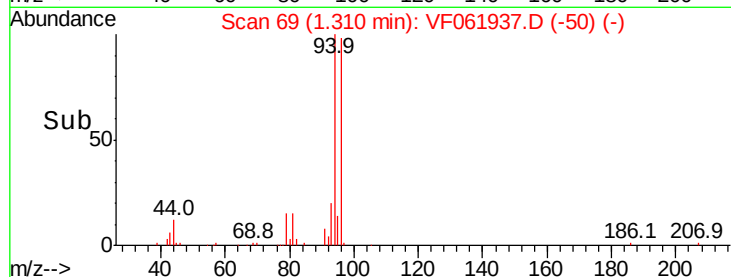
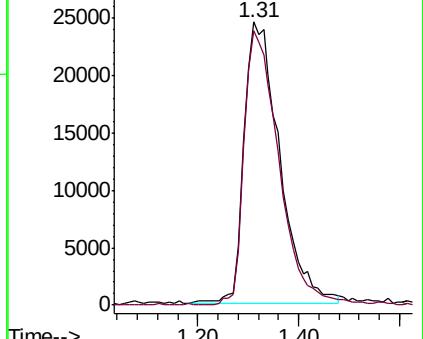
94 100

96 96.8 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 52.853 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061937.D

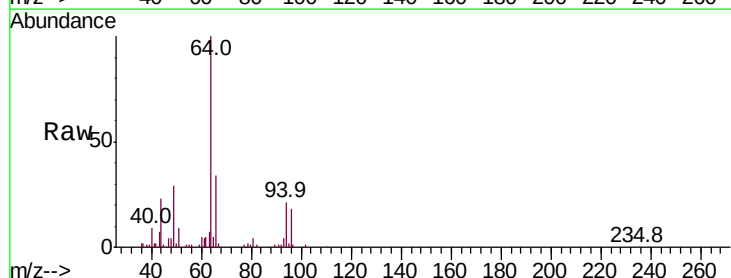
Acq: 14 Mar 2019 14:11

Tgt Ion: 64 Resp: 85837

Ion Ratio Lower Upper

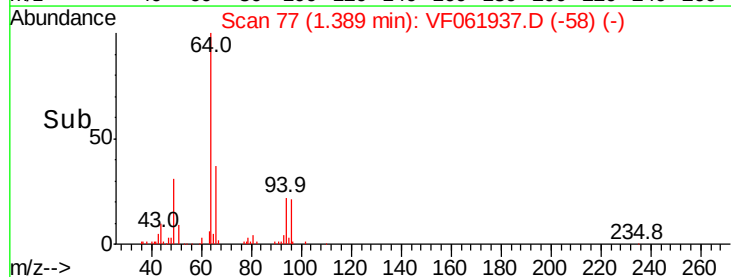
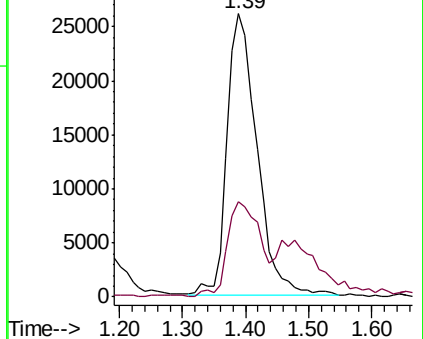
64 100

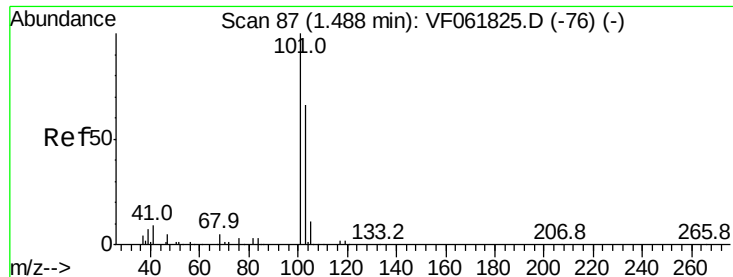
66 33.8 27.0 40.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 51.535 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

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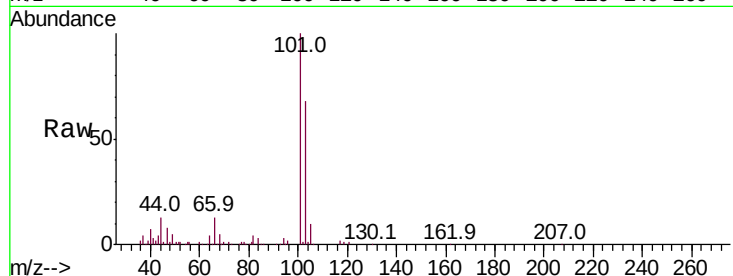
VSTDCCC050

Tot Ion:101 Resp: 215046

Ion Ratio Lower Upper

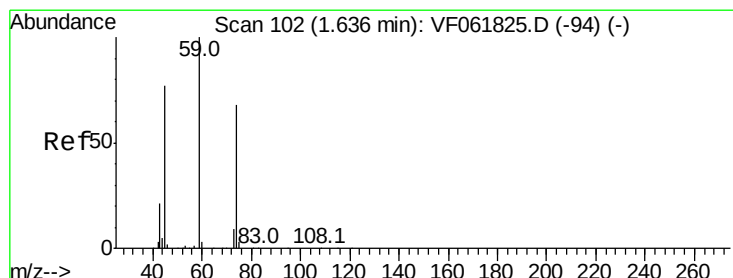
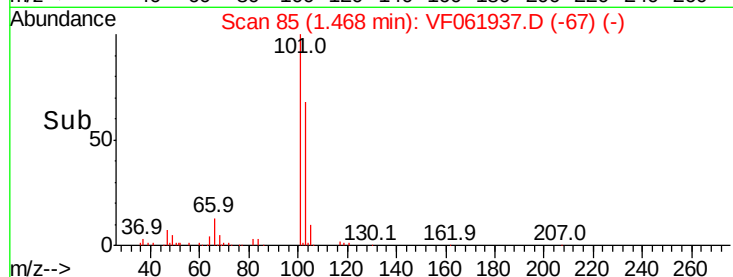
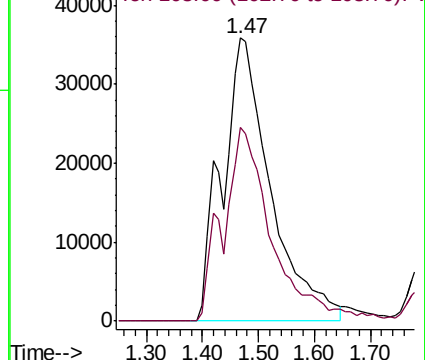
101 100

103 68.3 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 50.844 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061937.D

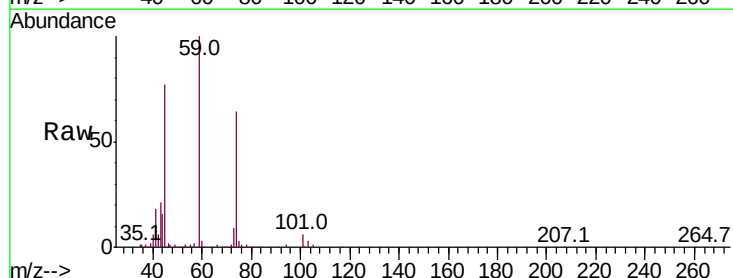
Acq: 14 Mar 2019 14:11

Tgt Ion: 74 Resp: 48246

Ion Ratio Lower Upper

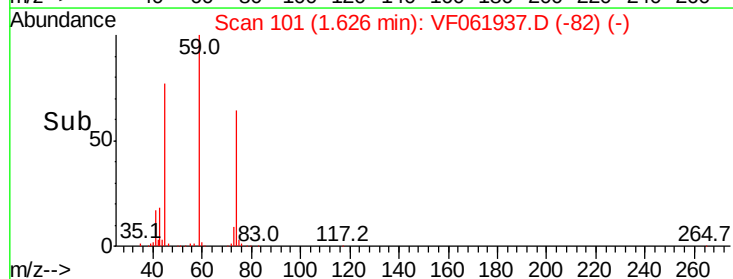
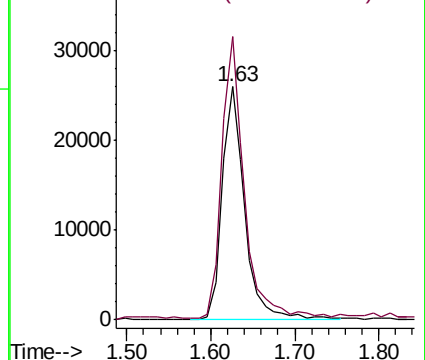
74 100

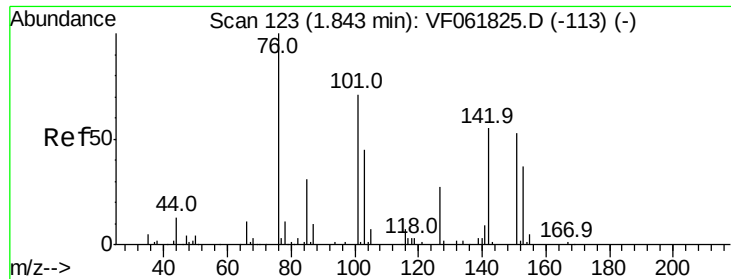
45 121.5 57.2 171.6



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: 52.886 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

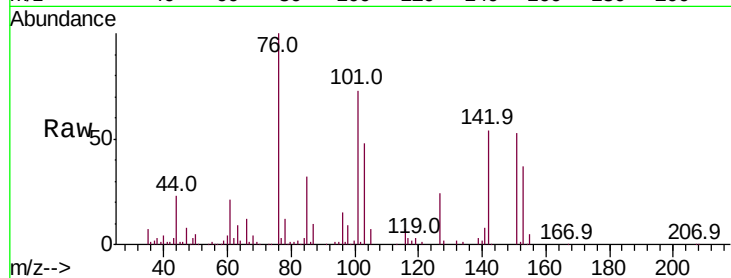
Tot Ion:101 Resp: 149863

Ion Ratio Lower Upper

101 100

85 43.3 34.0 51.0

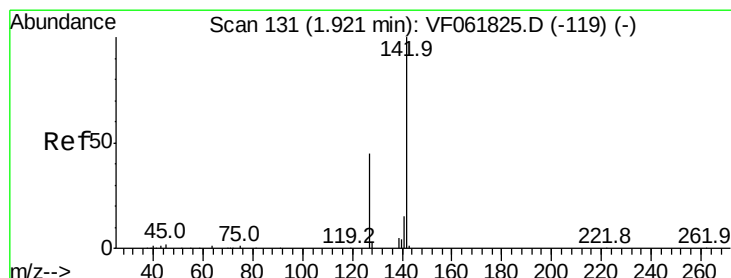
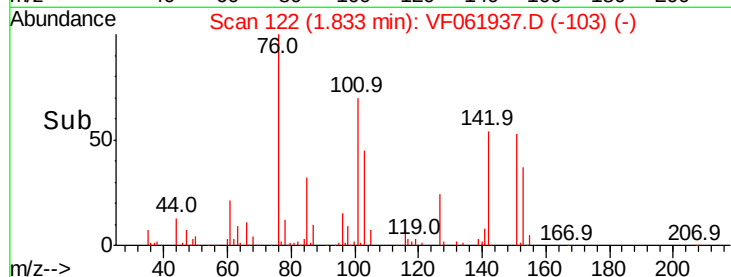
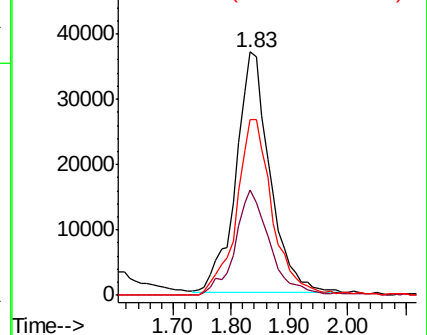
151 71.9 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 50.519 ug/l m

RT: 1.91 min Scan# 130

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

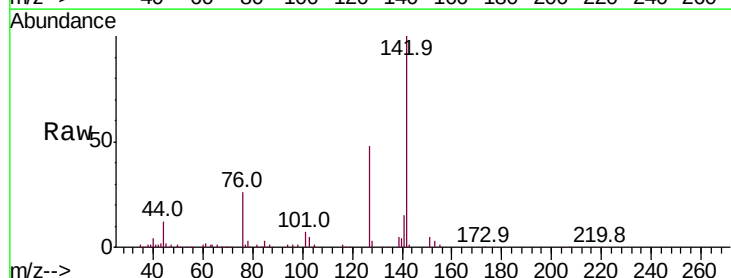
Tgt Ion:142 Resp: 272422

Ion Ratio Lower Upper

142 100

127 48.1 35.8 53.6

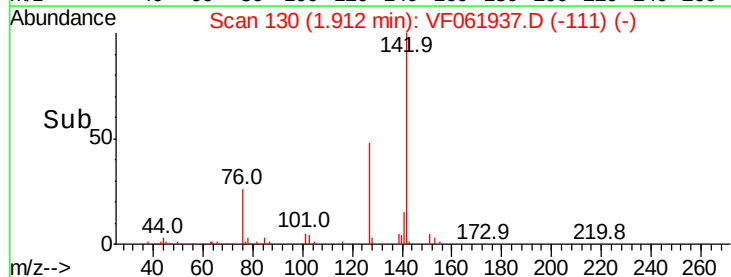
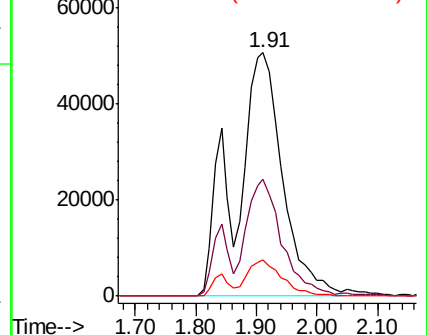
141 14.8 11.7 17.5

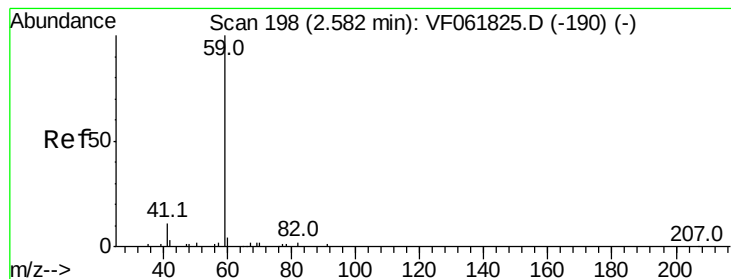


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



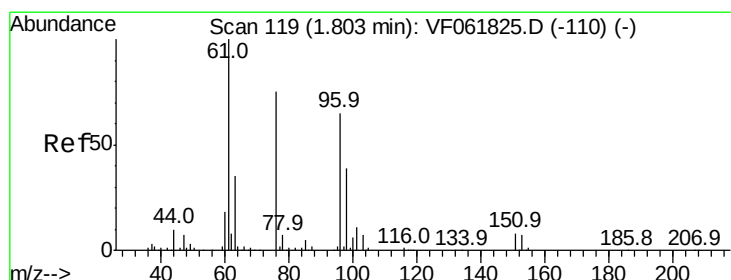
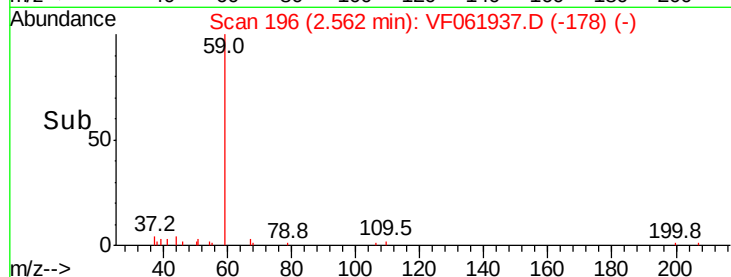
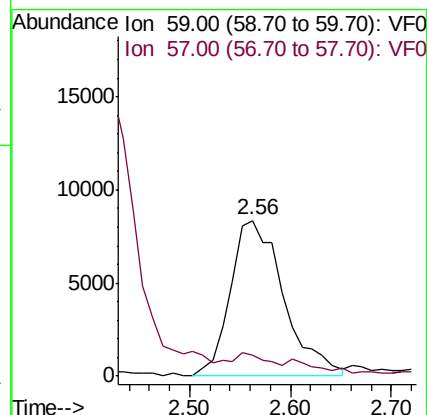
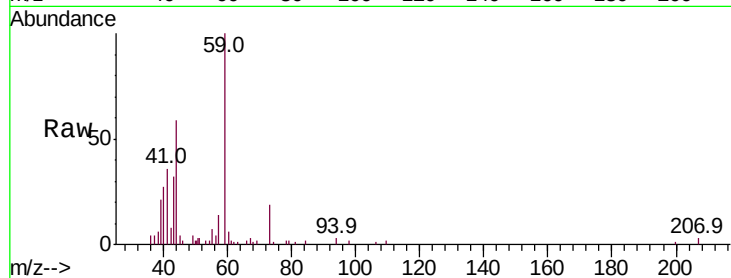


#11

Tert butyl alcohol
Concen: 246.567 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

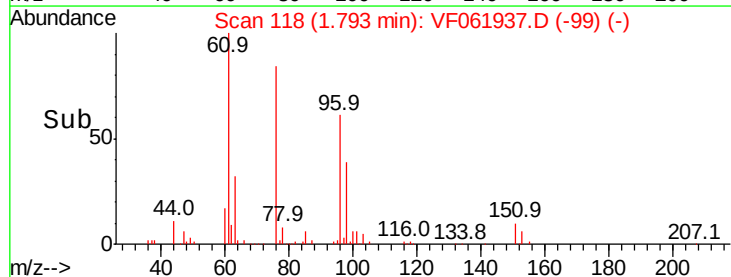
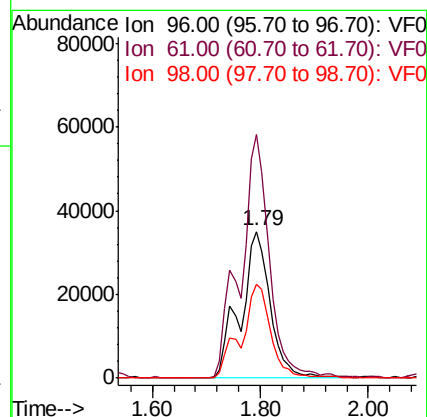
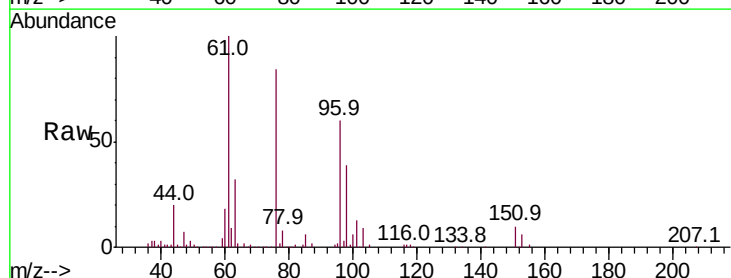
Tot Ion: 59 Resp: 30829
Ion Ratio Lower Upper
59 100
57 13.9 11.8 17.6

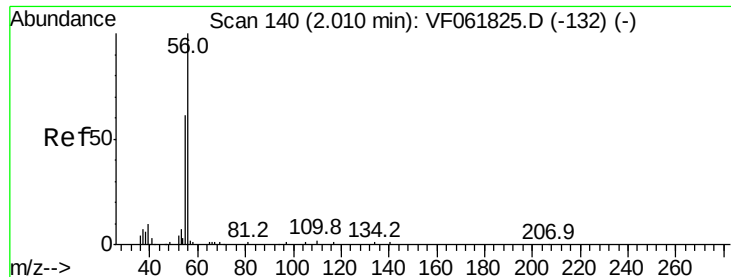


#12

1,1-Dichloroethene
Concen: 51.775 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion: 96 Resp: 133943
Ion Ratio Lower Upper
96 100
61 166.2 122.5 183.7
98 64.2 47.1 70.7





#13

Acrolein

Concen: 263.219 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

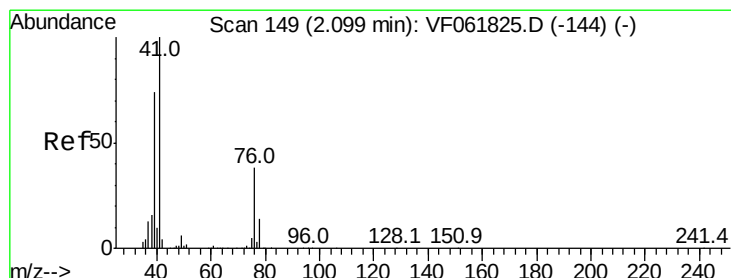
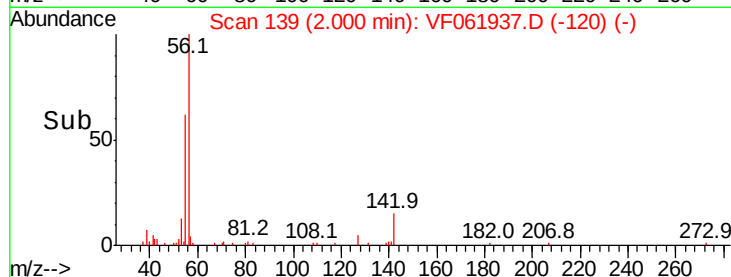
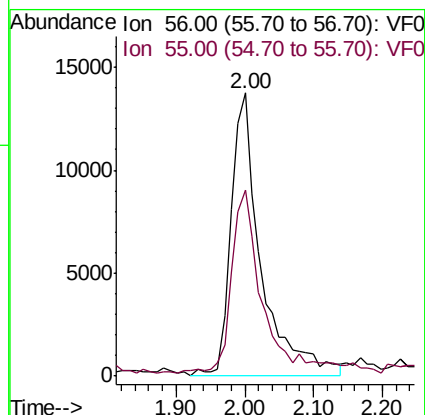
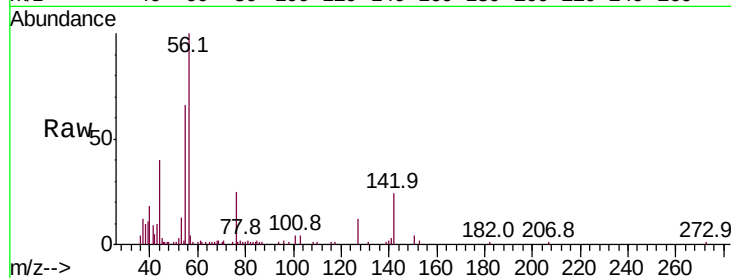
VSTDCCC050

Tot Ion: 56 Resp: 41702

Ion Ratio Lower Upper

56 100

55 65.6 51.3 76.9



#14

Allyl chloride

Concen: 59.408 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

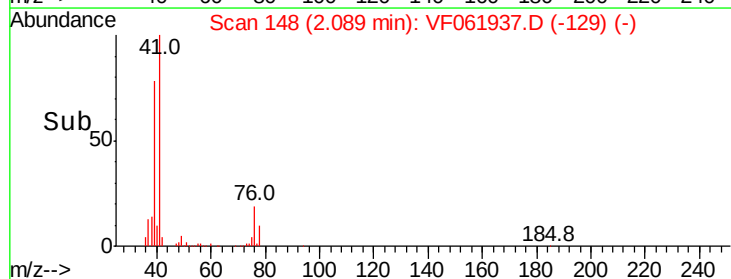
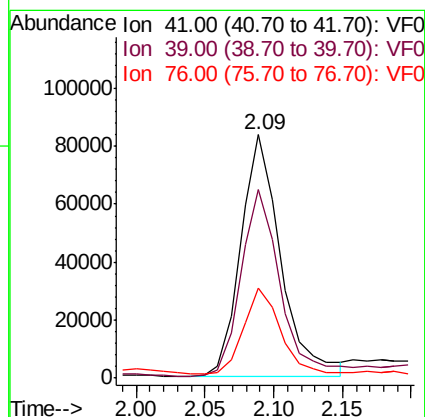
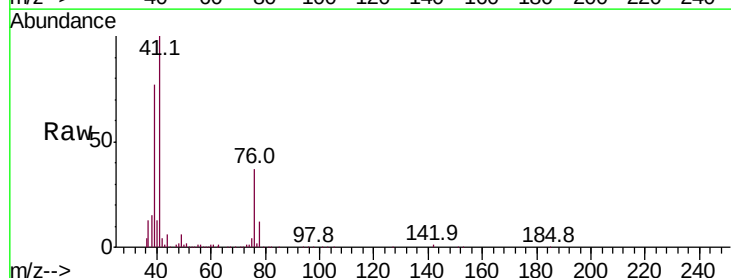
Tgt Ion: 41 Resp: 169314

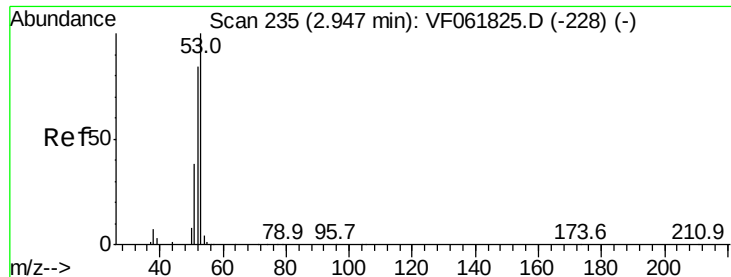
Ion Ratio Lower Upper

41 100

39 77.4 59.6 89.4

76 37.1 32.3 48.5





#15

Acrylonitrile

Concen: 260.611 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

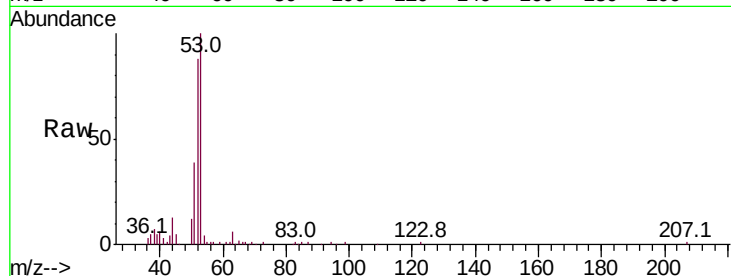
MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 103759

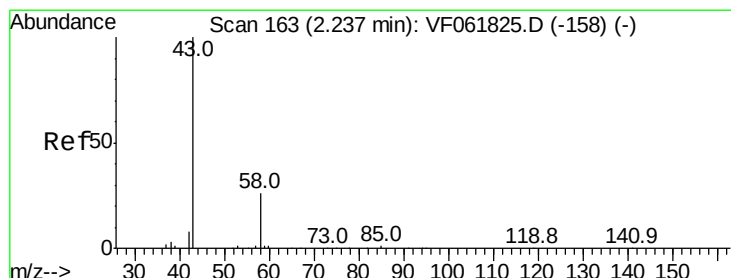
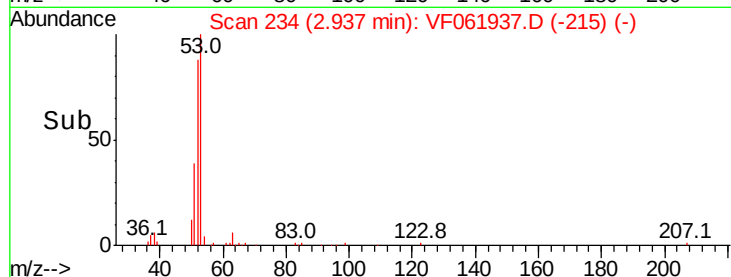
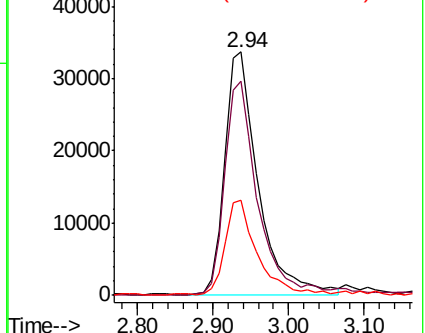
Ion	Ratio	Lower	Upper
53	100		
52	87.8	67.4	101.0
51	38.9	30.7	46.1



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 303.766 ug/l

RT: 2.23 min Scan# 162

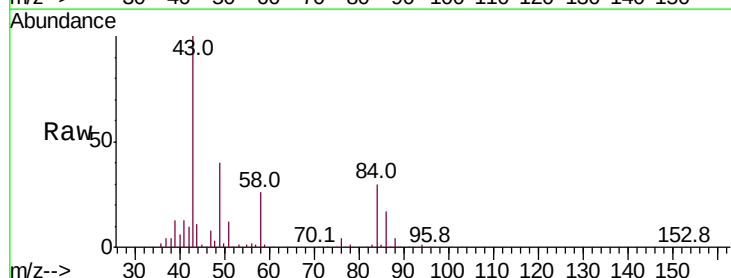
Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

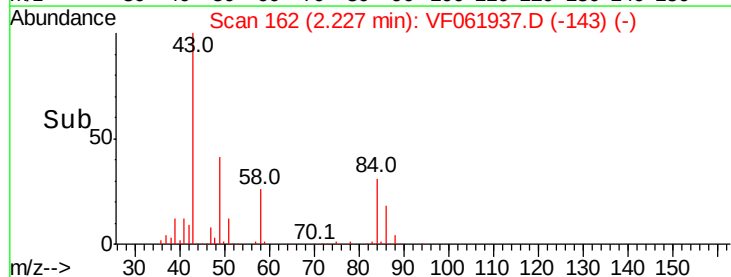
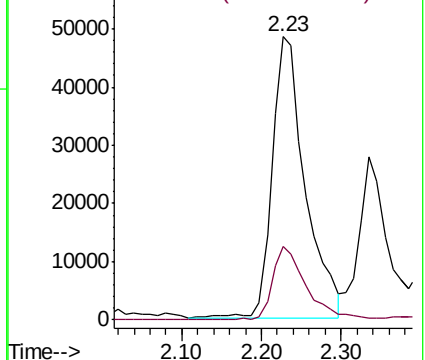
Tgt Ion: 43 Resp: 140169

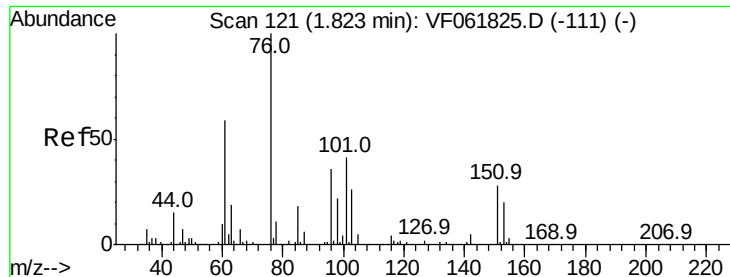
Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.3	30.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 50.137 ug/l m

RT: 1.82 min Scan# 121

Delta R.T. -0.00 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

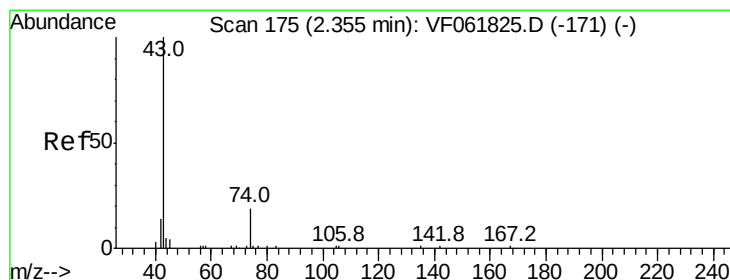
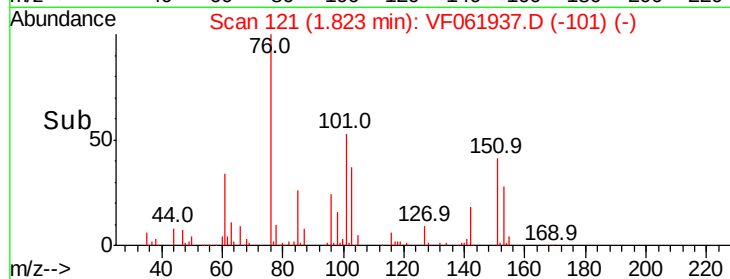
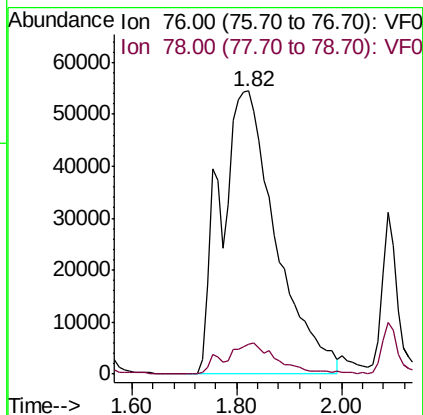
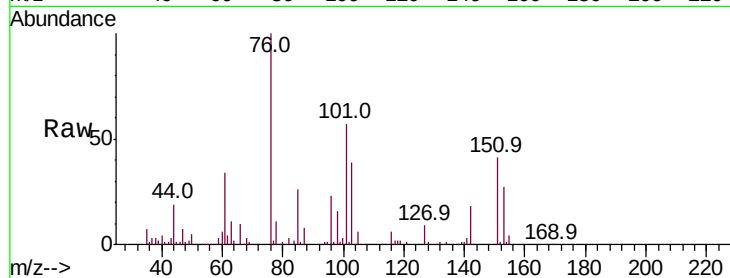
VSTDCCC050

Tot Ion: 76 Resp: 403748

Ion Ratio Lower Upper

76 100

78 10.7 9.1 13.7



#18

Methyl Acetate

Concen: 66.494 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF061937.D

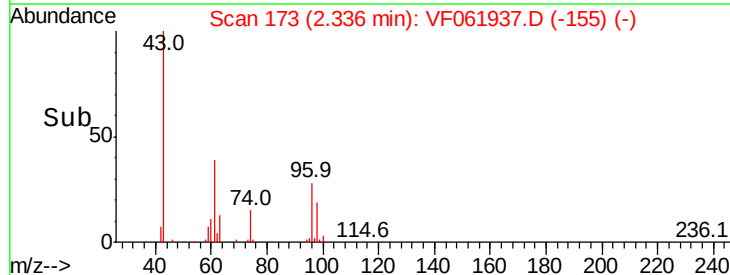
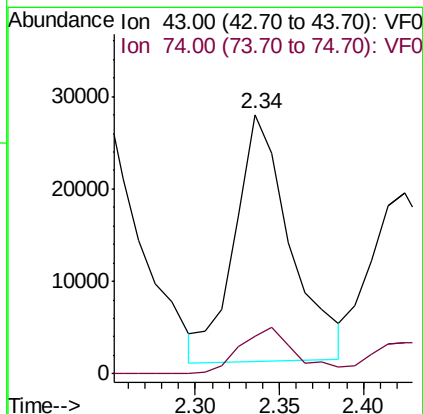
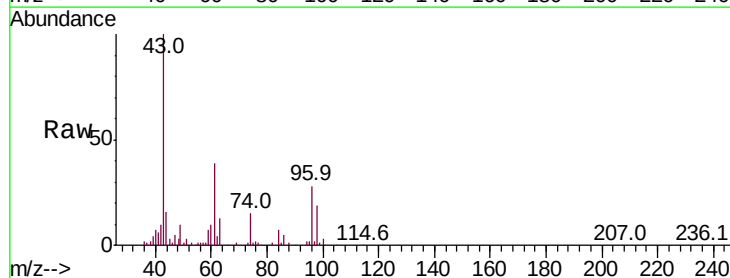
Acq: 14 Mar 2019 14:11

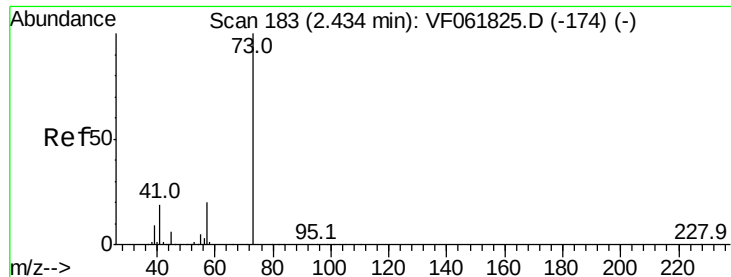
Tgt Ion: 43 Resp: 61059

Ion Ratio Lower Upper

43 100

74 14.6 13.2 19.8



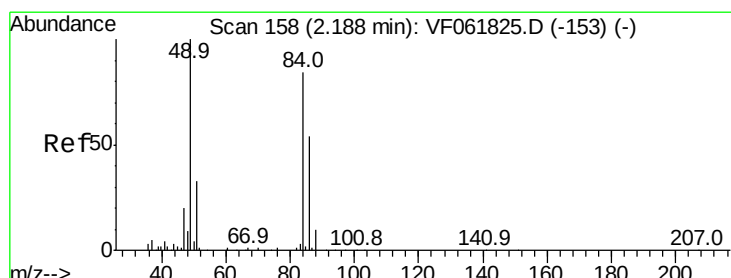
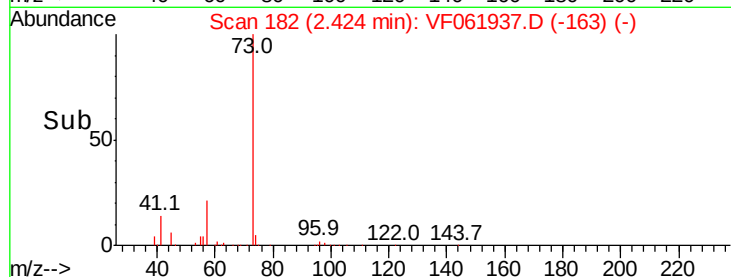
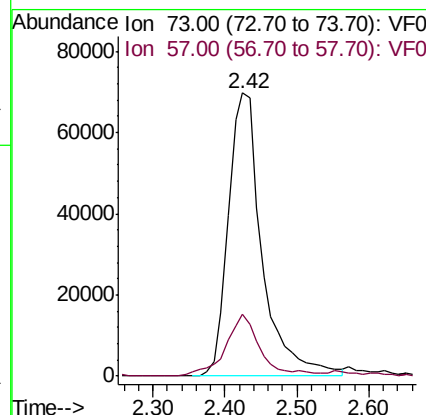
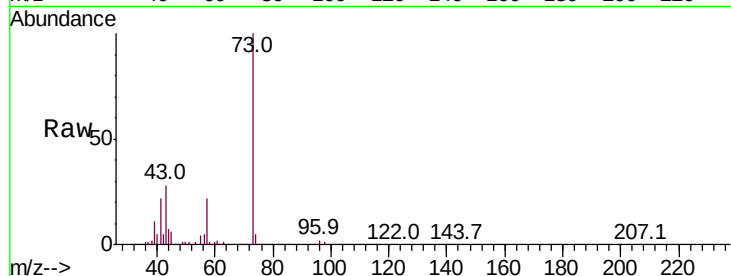


#19

Methyl tert-butyl Ether
 Concen: 51.898 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061937.D
 Acq: 14 Mar 2019 14:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

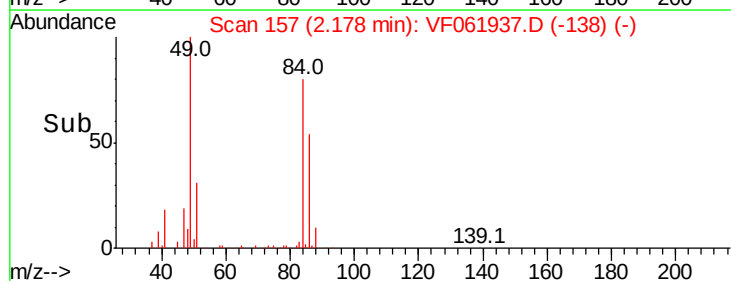
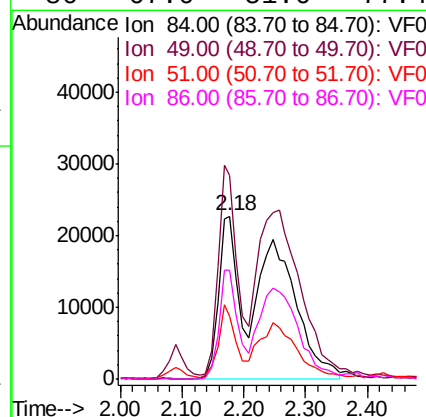
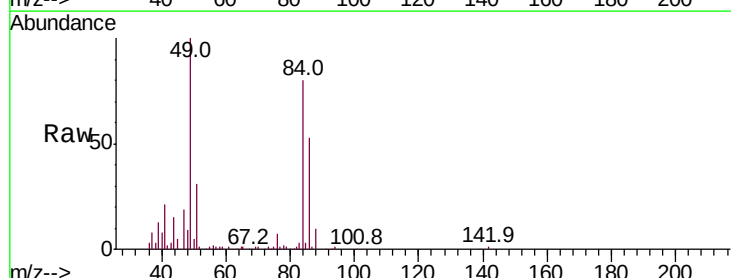
Tot Ion: 73 Resp: 227125
 Ion Ratio Lower Upper
 73 100
 57 21.8 16.1 24.1

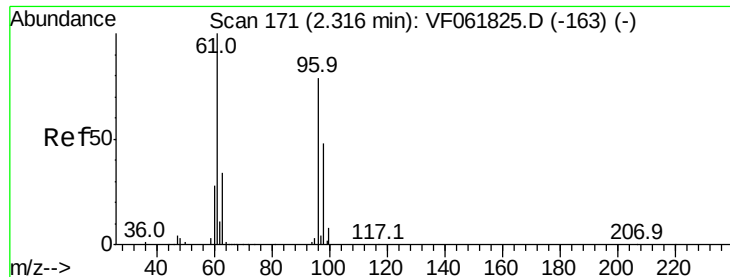


#20

Methylene Chloride
 Concen: 52.497 ug/l m
 RT: 2.18 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VF061937.D
 Acq: 14 Mar 2019 14:11

Tgt Ion: 84 Resp: 133882
 Ion Ratio Lower Upper
 84 100
 49 125.3 96.8 145.2
 51 38.4 31.8 47.6
 86 67.0 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 56.881 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

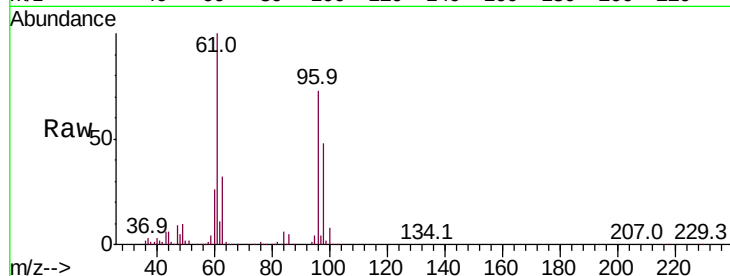
Tot Ion: 96 Resp: 138495

Ion Ratio Lower Upper

96 100

61 137.4 101.0 151.6

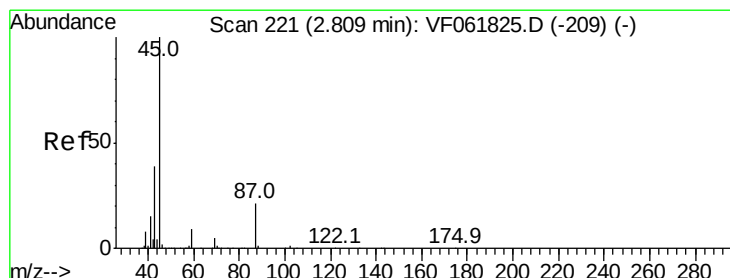
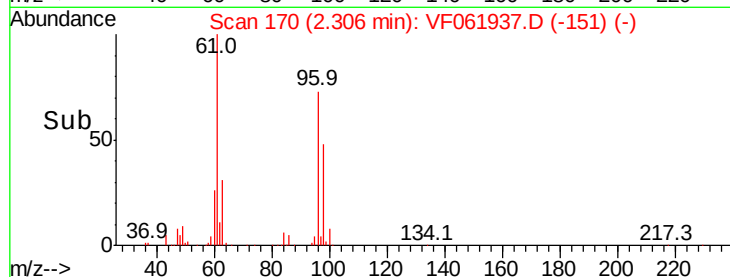
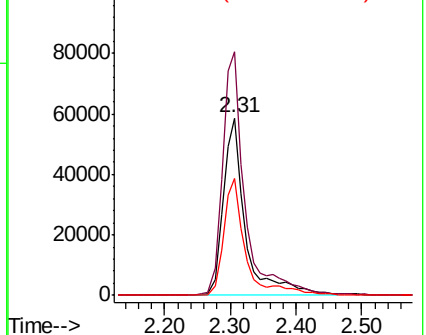
98 66.1 48.8 73.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 54.002 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Tgt Ion: 45 Resp: 400356

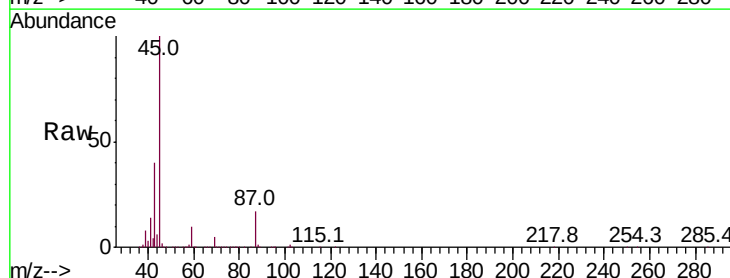
Ion Ratio Lower Upper

45 100

43 40.3 31.8 47.8

87 17.3 17.1 25.7

59 10.4 7.8 11.6

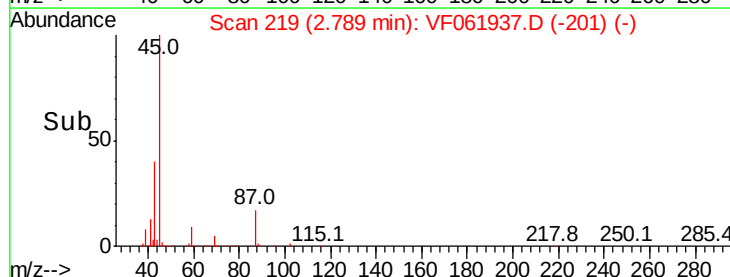
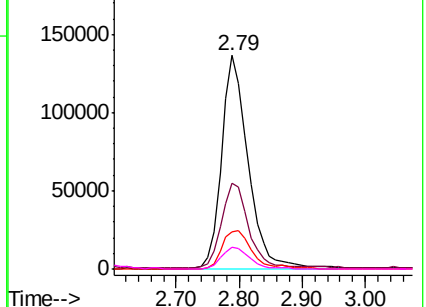


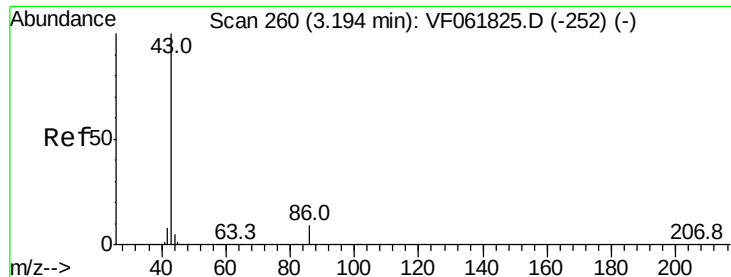
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 269.111 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

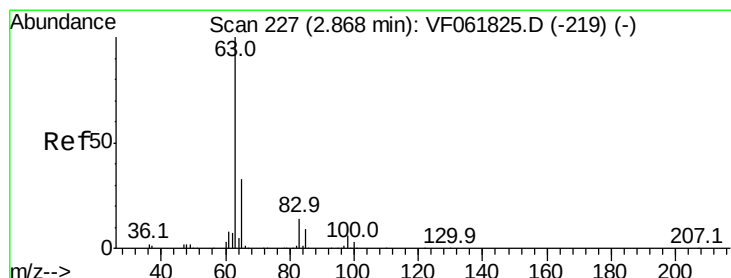
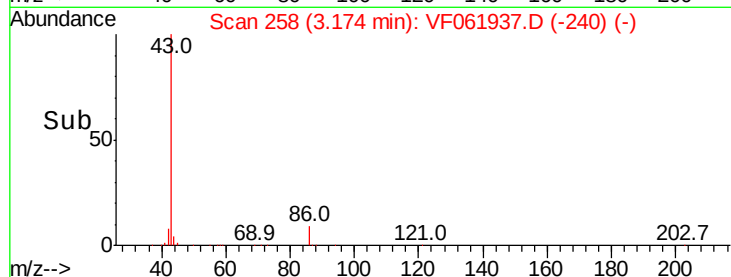
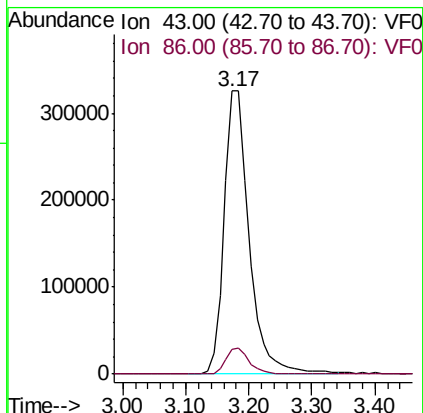
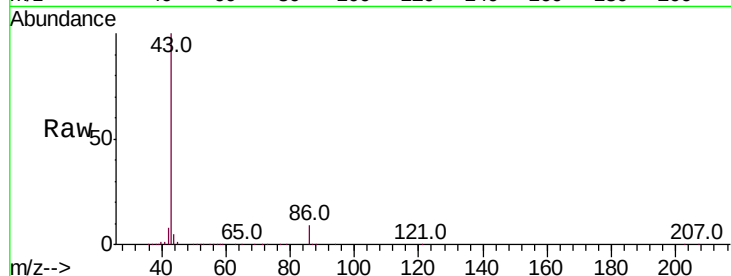
VSTDCCC050

Tot Ion: 43 Resp: 891281

Ion Ratio Lower Upper

43 100

86 8.8 7.0 10.4



#24

1,1-Dichloroethane

Concen: 51.730 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

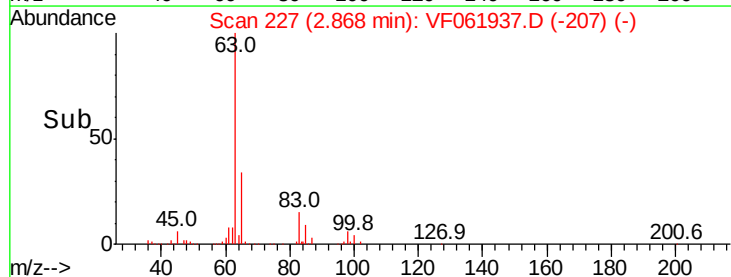
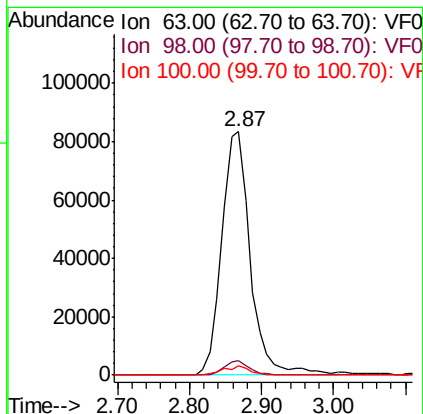
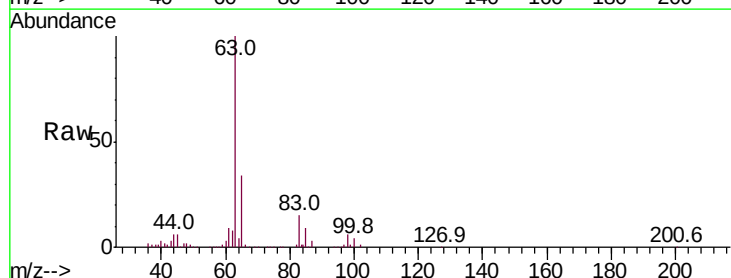
Tgt Ion: 63 Resp: 229229

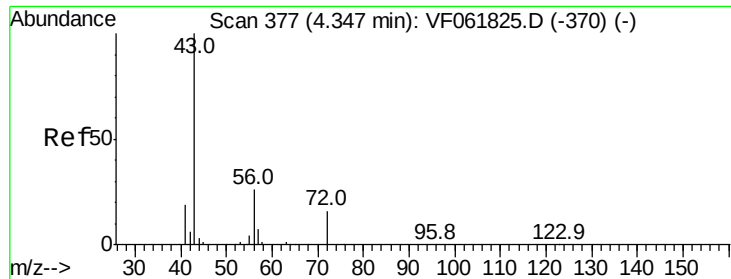
Ion Ratio Lower Upper

63 100

98 6.1 2.9 8.6

100 4.1 1.8 5.3





#25

2-Butanone

Concen: 269.333 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

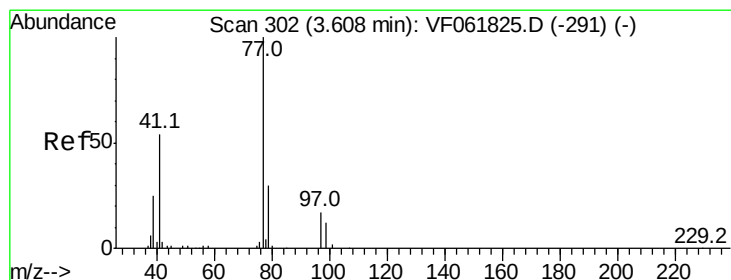
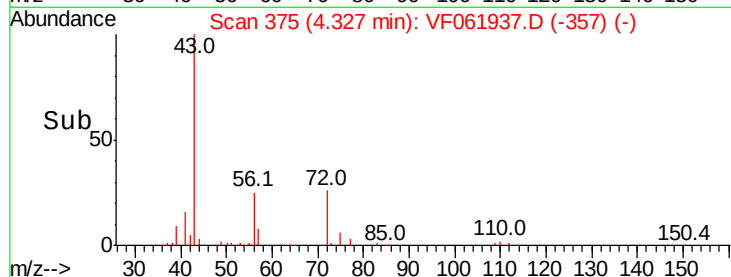
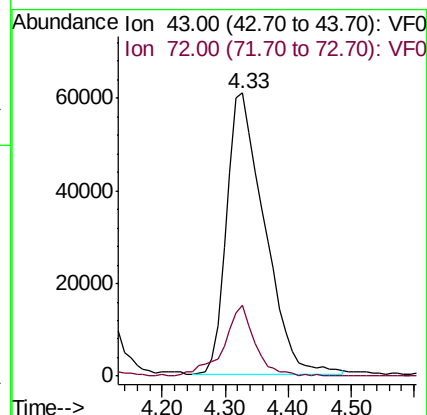
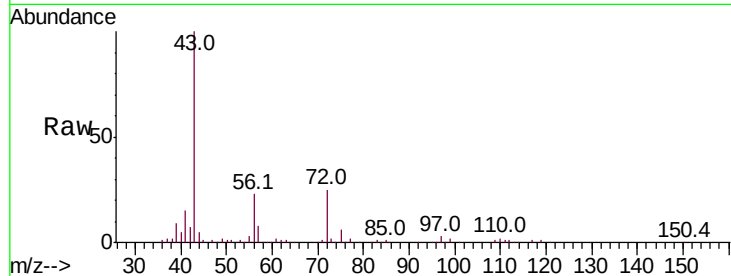
VSTDCCC050

Tot Ion: 43 Resp: 252798

Ion Ratio Lower Upper

43 100

72 25.1 16.2 24.4#



#26

2,2-Dichloropropane

Concen: 54.406 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.02 min

Lab File: VF061937.D

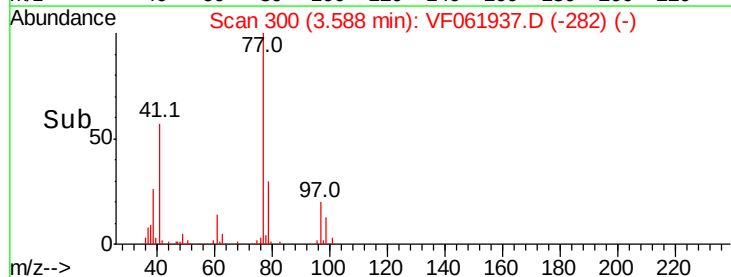
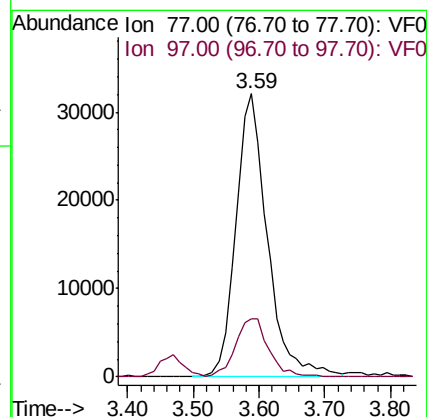
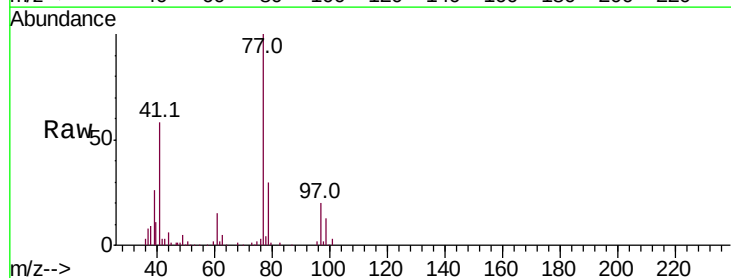
Acq: 14 Mar 2019 14:11

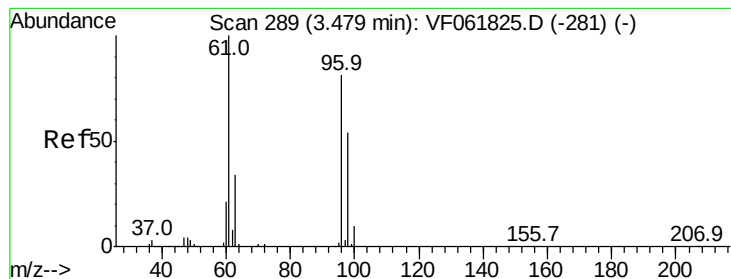
Tgt Ion: 77 Resp: 107623

Ion Ratio Lower Upper

77 100

97 20.4 10.4 31.4



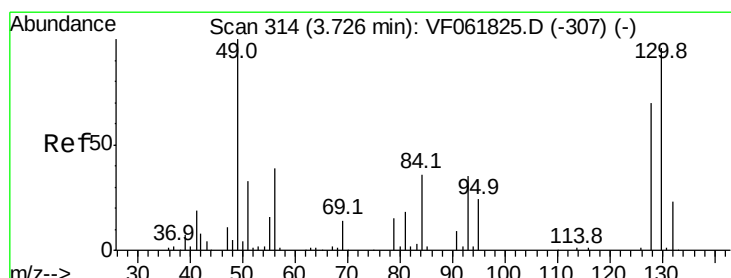
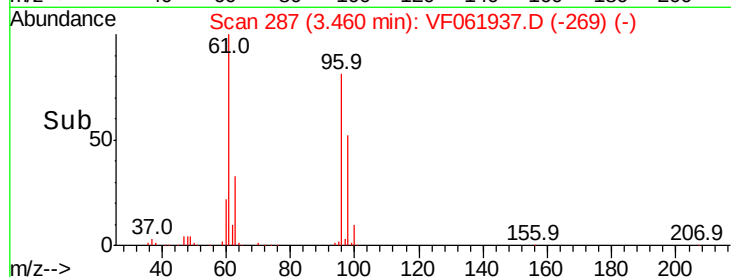
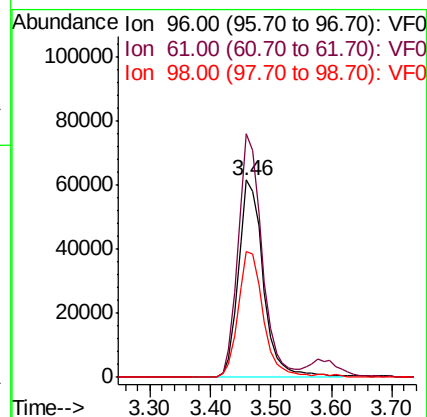
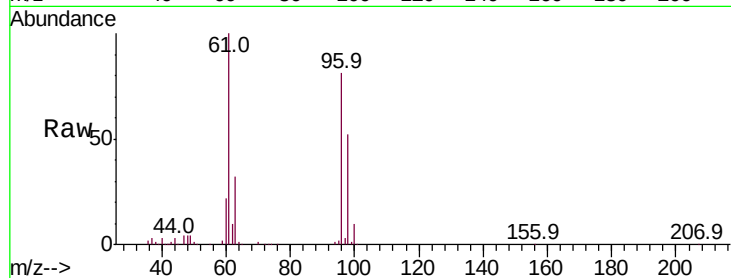


#27

cis-1,2-Dichloroethene
Concen: 52.300 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

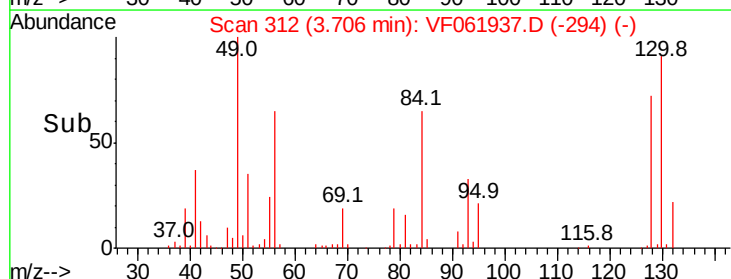
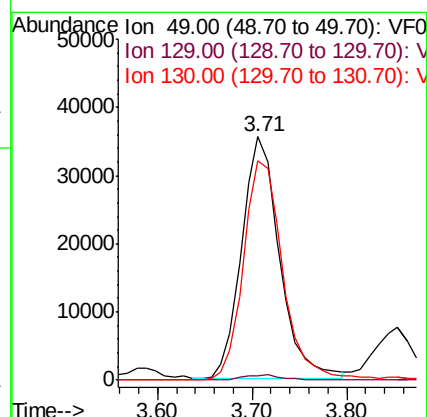
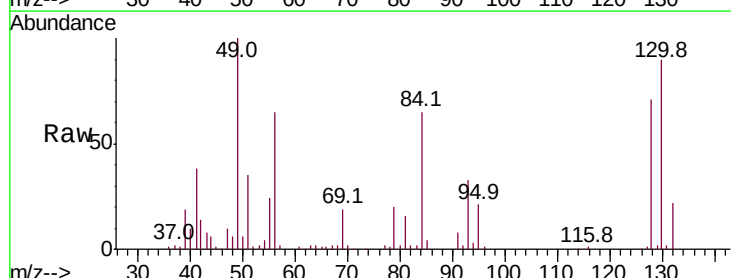
Tot Ion: 96 Resp: 176422
Ion Ratio Lower Upper
96 100
61 123.6 0.0 245.8
98 64.1 0.0 132.6

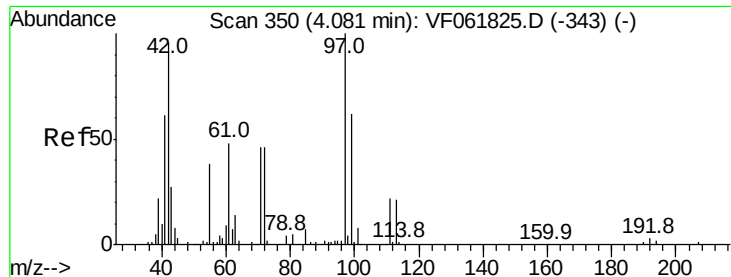


#28

Bromochloromethane
Concen: 51.160 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion: 49 Resp: 98821
Ion Ratio Lower Upper
49 100
129 1.9 0.0 0.0#
130 90.2 76.9 115.3





#29

Tetrahydrofuran

Concen: 249.419 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

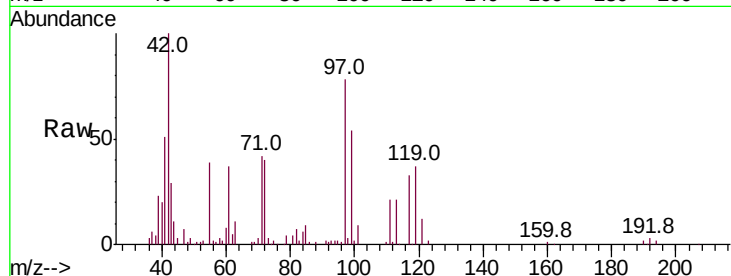
Tot Ion: 42 Resp: 100963

Ion Ratio Lower Upper

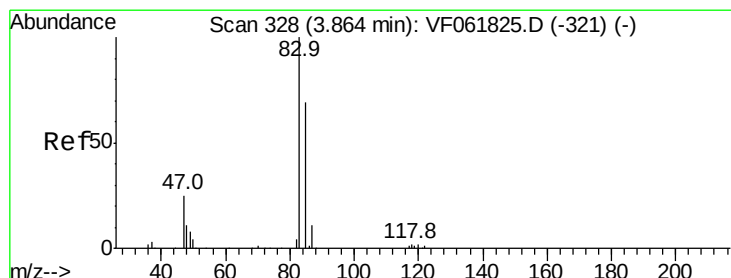
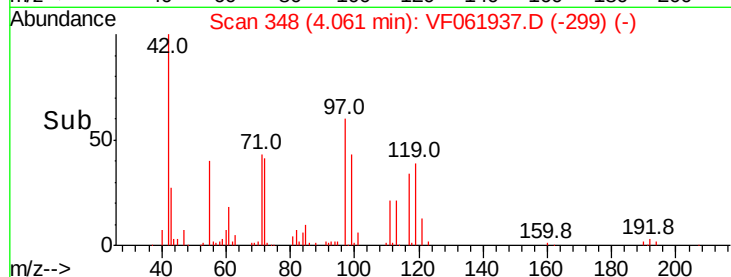
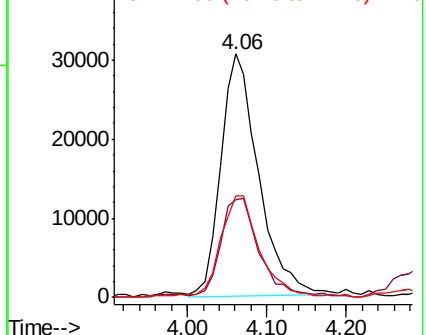
42 100

72 41.7 34.4 51.6

71 44.3 34.6 52.0



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 51.151 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VF061937.D

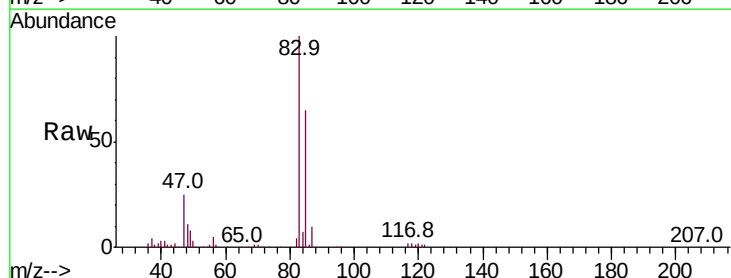
Acq: 14 Mar 2019 14:11

Tgt Ion: 83 Resp: 258897

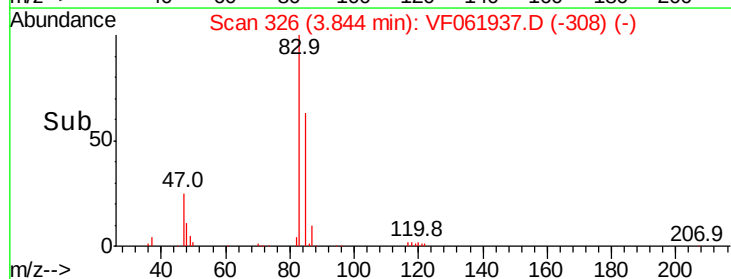
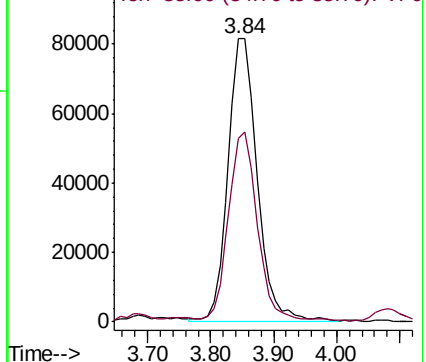
Ion Ratio Lower Upper

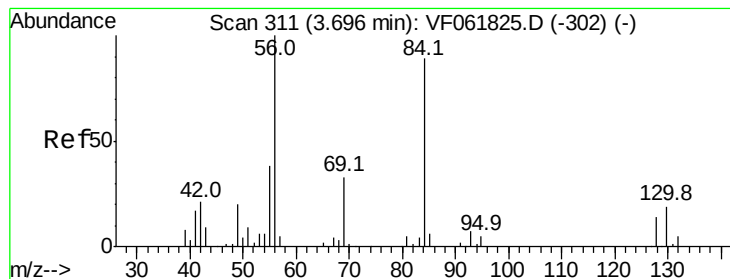
83 100

85 65.0 55.3 82.9



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





#31

Cyclohexane

Concen: 50.028 ug/l m

RT: 3.69 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

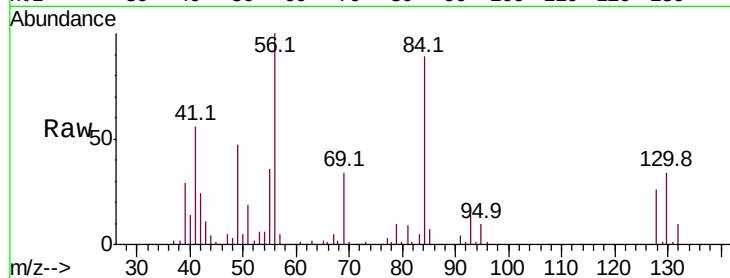
Tot Ion: 56 Resp: 232193

Ion Ratio Lower Upper

56 100

69 34.0 26.0 39.0

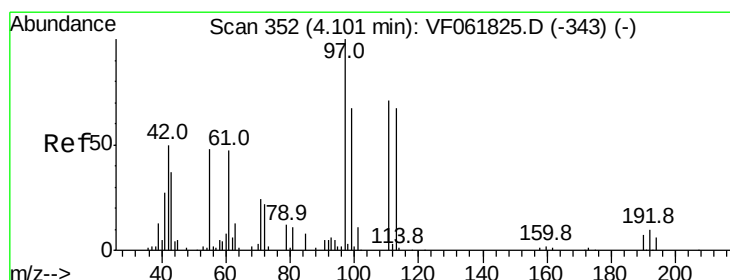
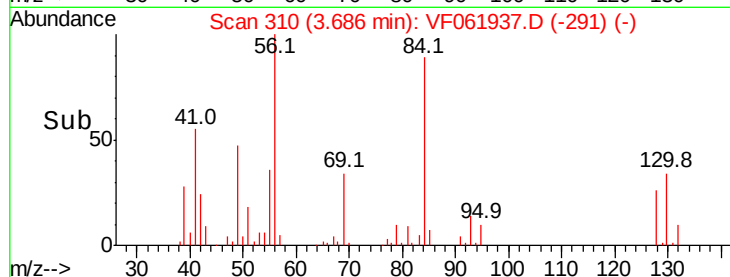
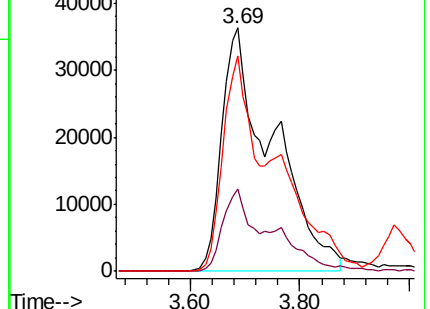
84 88.6 71.0 106.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 57.913 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

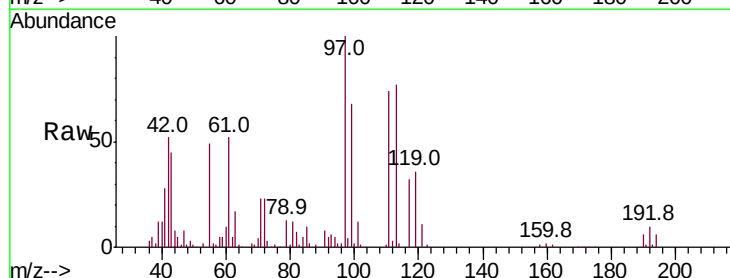
Tgt Ion: 97 Resp: 180678

Ion Ratio Lower Upper

97 100

99 67.6 53.8 80.8

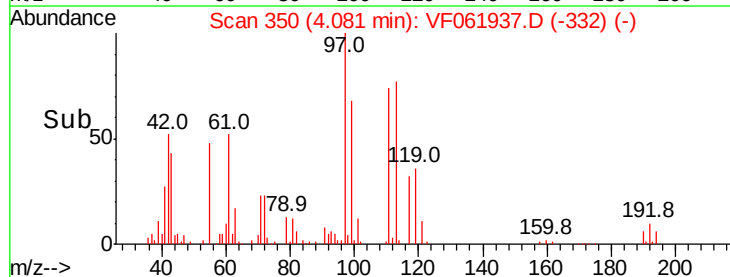
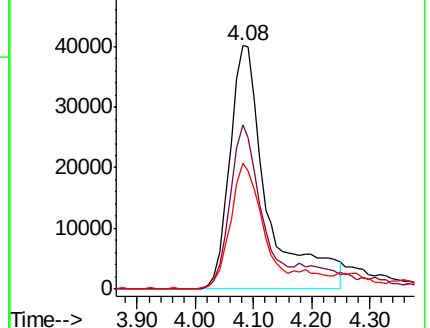
61 51.5 37.9 56.9

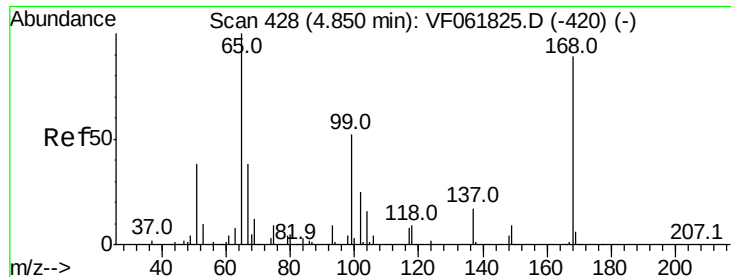


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

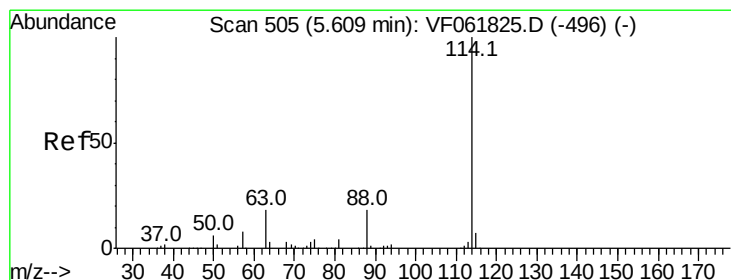
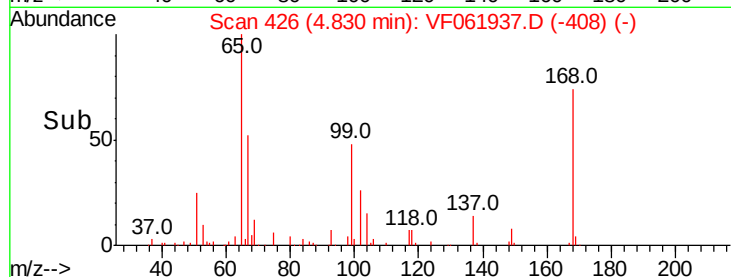
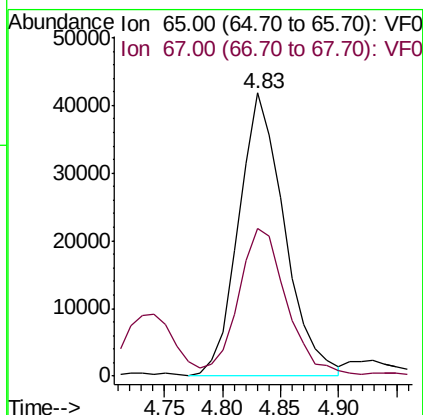
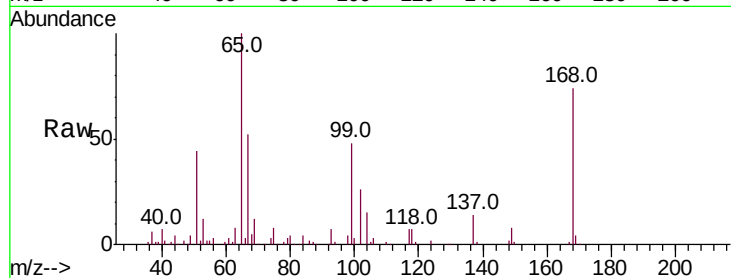




#33
 1,2-Dichloroethane-d4
 Concen: 51.474 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.02 min
 Lab File: VF061937.D
 Acq: 14 Mar 2019 14:11

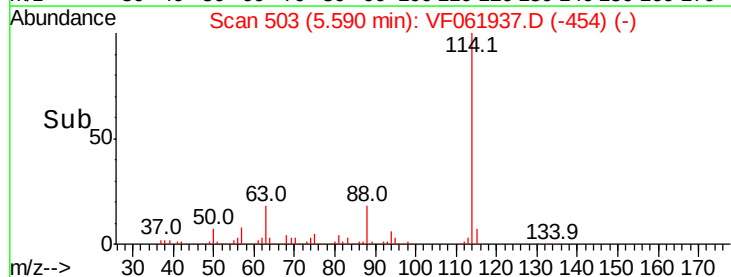
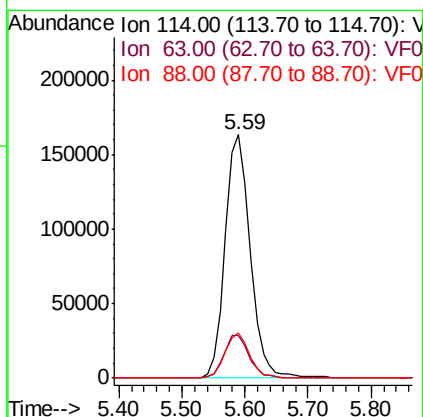
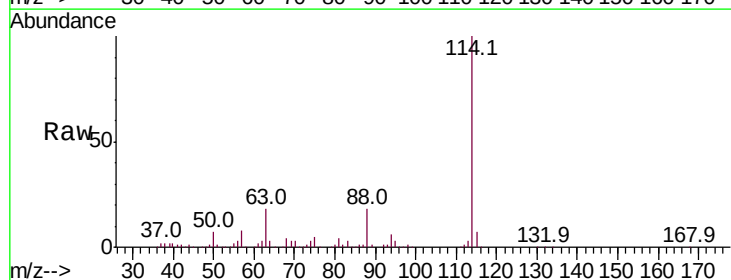
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

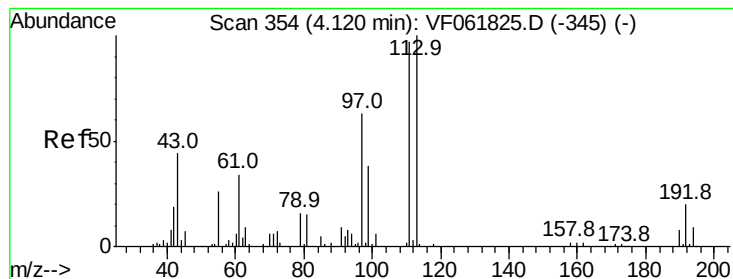
Tot Ion: 65 Resp: 113391
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.02 min
 Lab File: VF061937.D
 Acq: 14 Mar 2019 14:11

Tgt Ion: 114 Resp: 450613
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 35.6
 88 18.4 0.0 35.6





#35

Dibromofluoromethane

Concen: 52.381 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

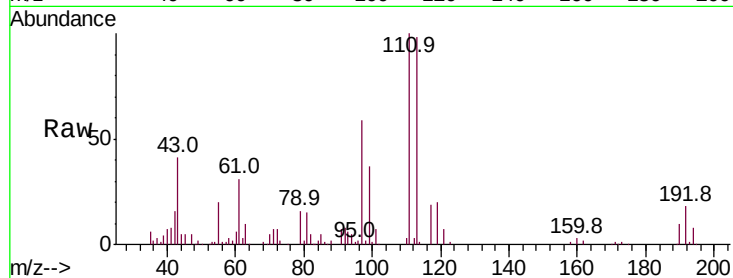
Tot Ion:113 Resp: 164721

Ion Ratio Lower Upper

113 100

111 102.3 77.6 116.4

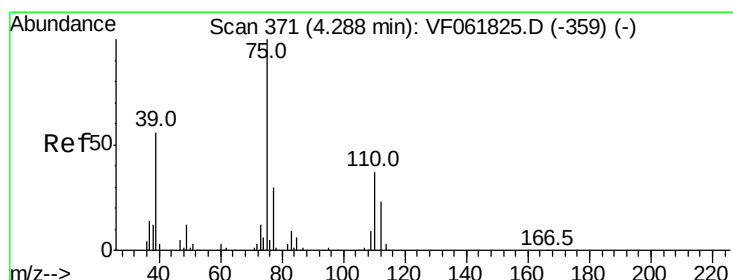
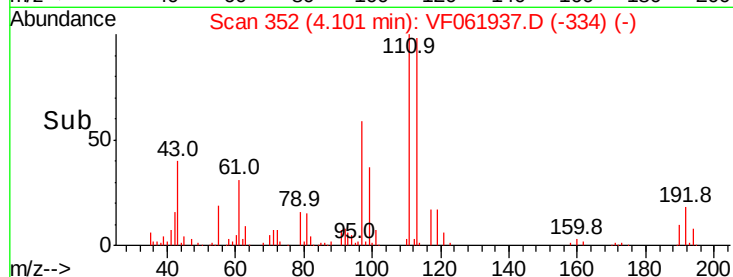
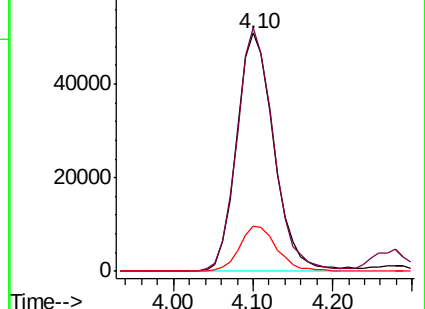
192 19.6 15.9 23.9



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 49.806 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

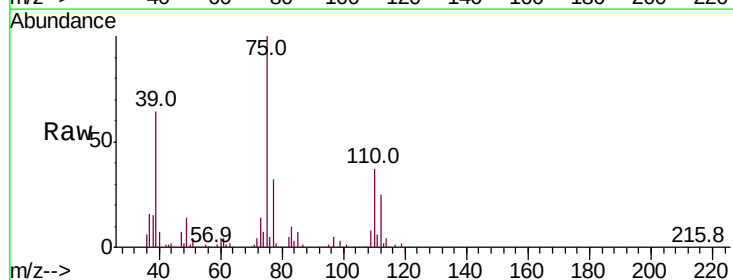
Tgt Ion: 75 Resp: 212001

Ion Ratio Lower Upper

75 100

110 37.1 18.6 55.6

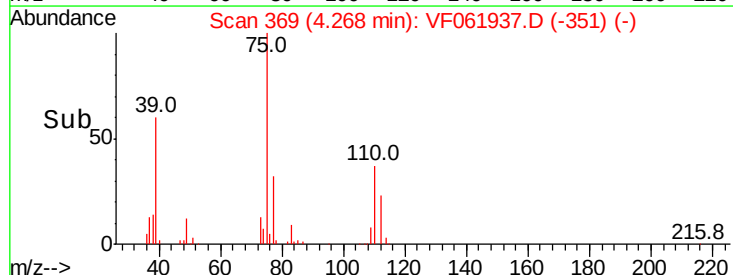
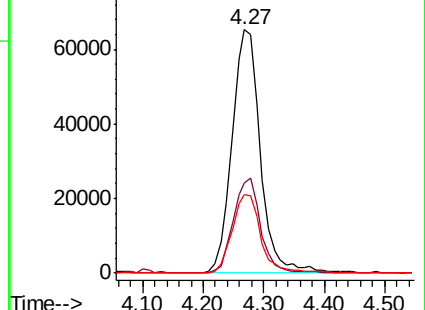
77 32.2 24.2 36.2

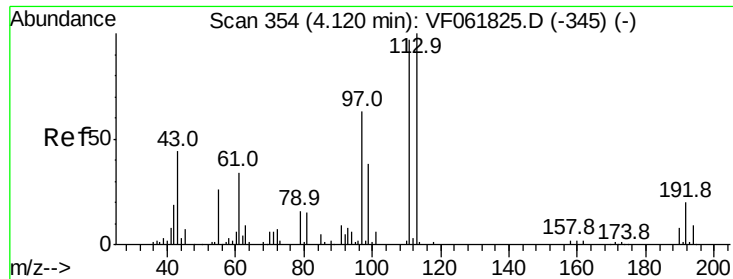


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

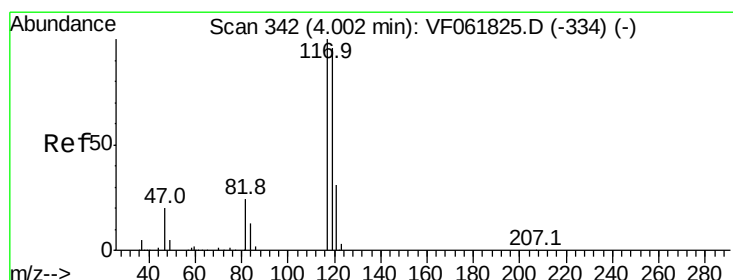
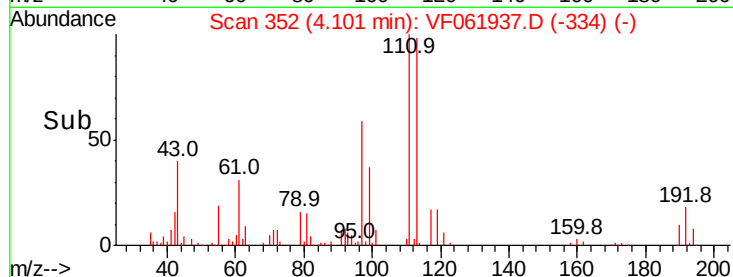
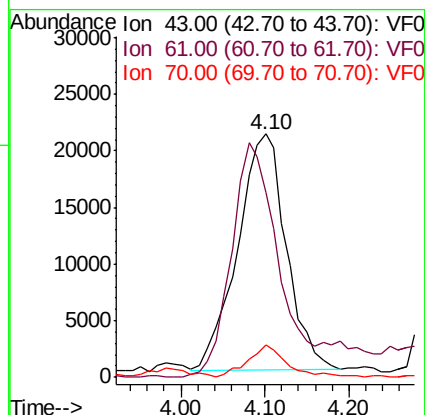
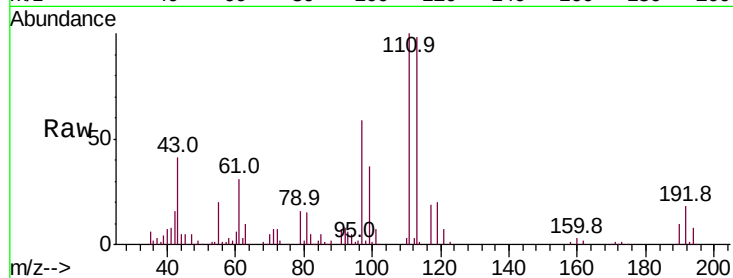




#37
Ethyl Acetate
Concen: 47.284 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

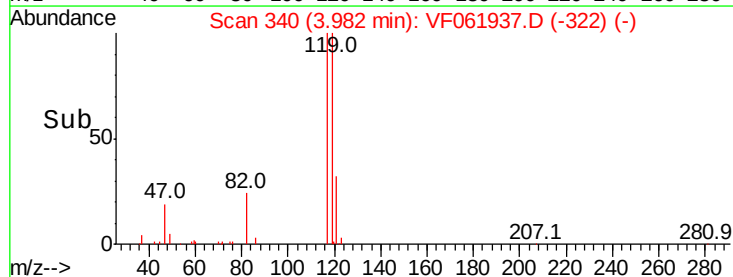
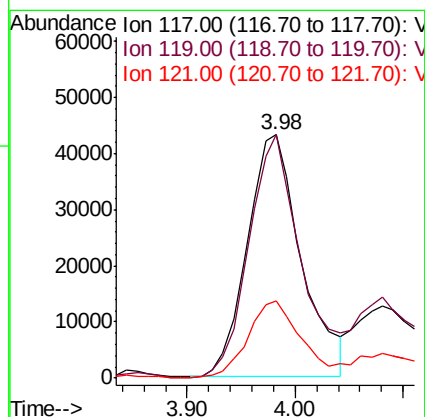
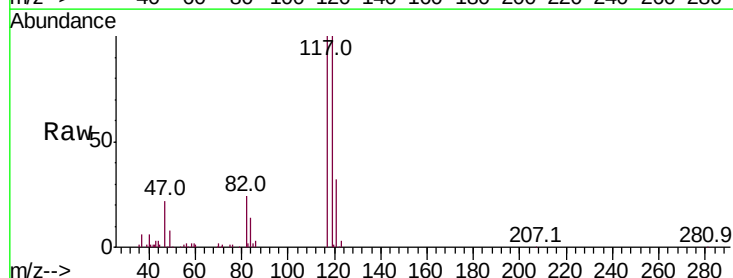
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

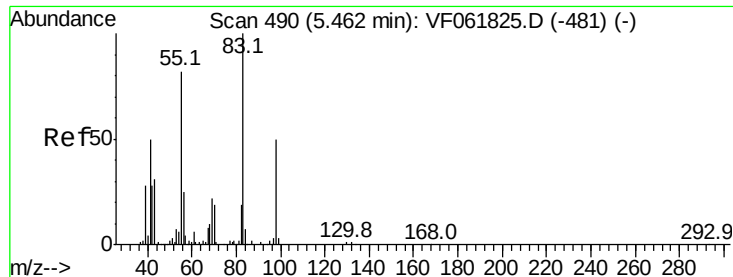
Tot Ion: 43 Resp: 84479
Ion Ratio Lower Upper
43 100
61 75.9 60.7 91.1
70 13.2 10.6 15.8



#38
Carbon Tetrachloride
Concen: 49.965 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion: 117 Resp: 150555
Ion Ratio Lower Upper
117 100
119 99.8 76.6 114.8
121 31.8 24.4 36.6

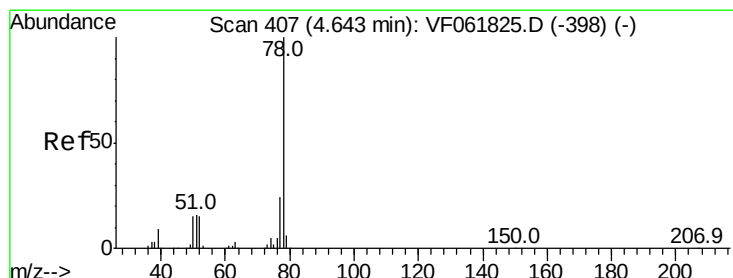
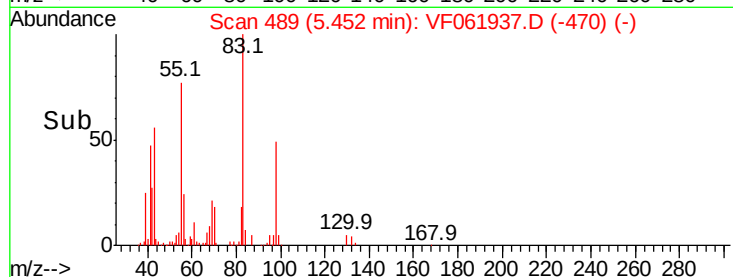
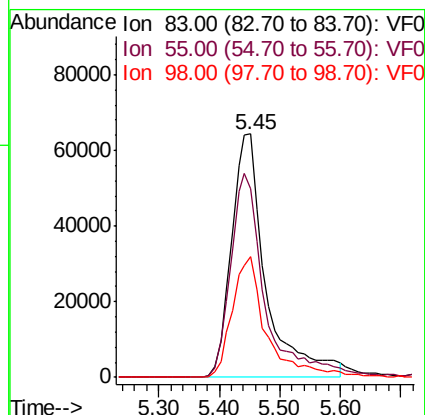
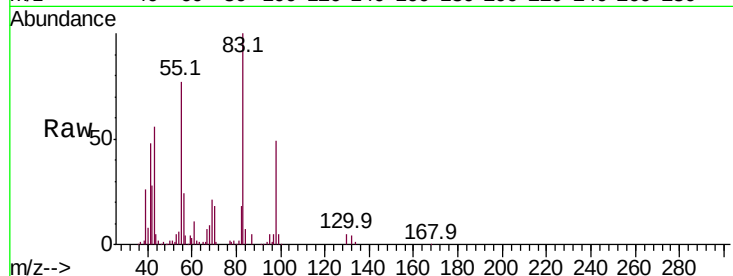




#39
Methylvlcyclohexane
Concen: 50.772 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

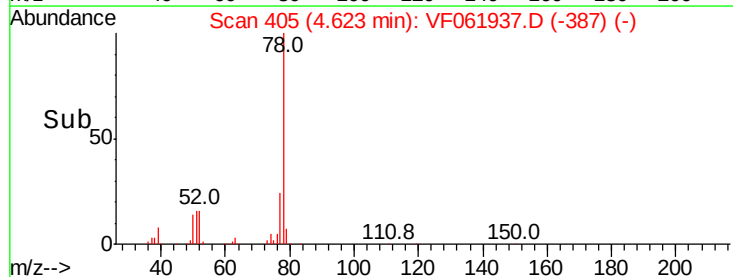
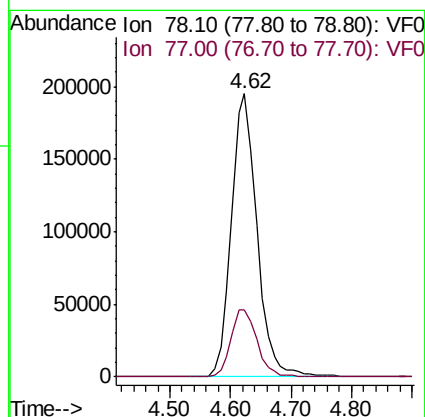
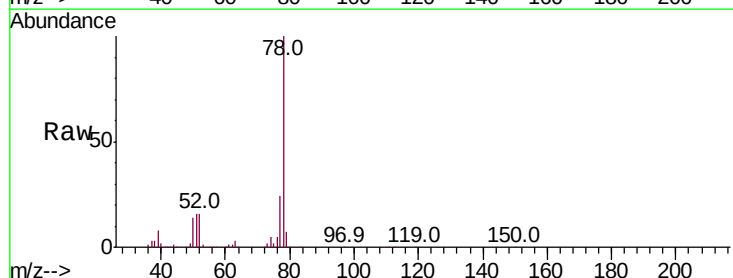
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

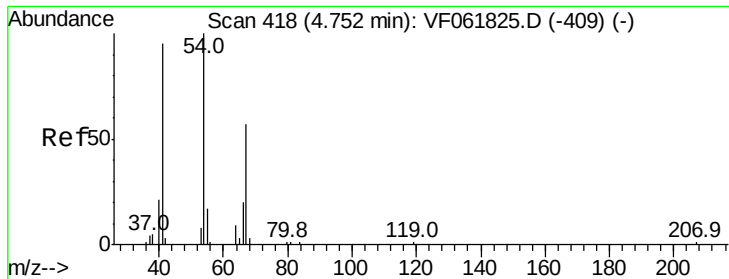
Tot Ion: 83 Resp: 255263
Ion Ratio Lower Upper
83 100
55 77.3 66.0 99.0
98 49.4 39.8 59.6



#40
Benzene
Concen: 51.618 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion: 78 Resp: 574314
Ion Ratio Lower Upper
78 100
77 23.6 19.5 29.3

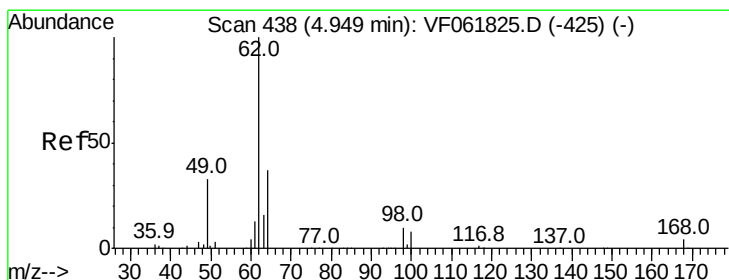
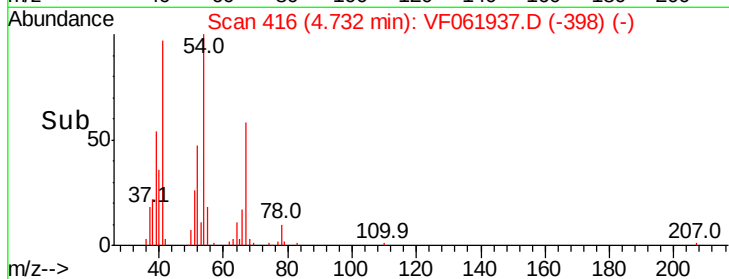
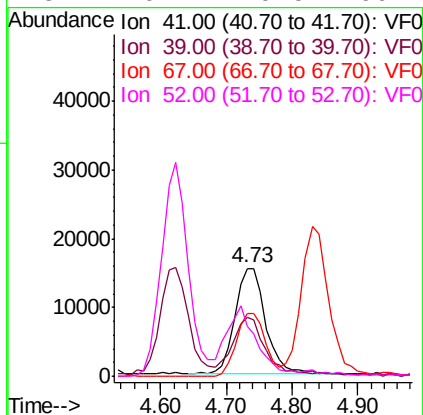
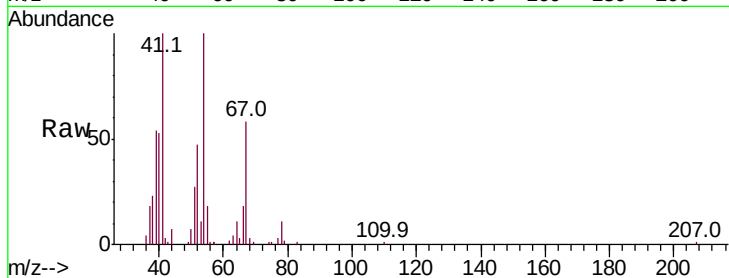




#41
Methacrylonitrile
Concen: 52.135 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

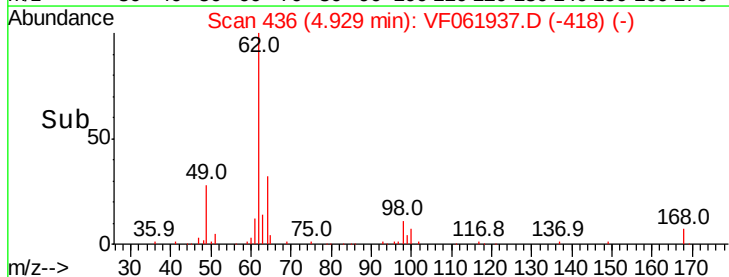
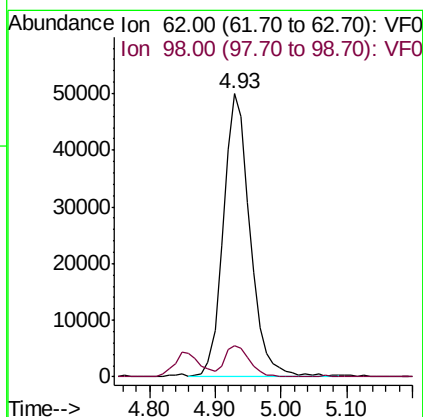
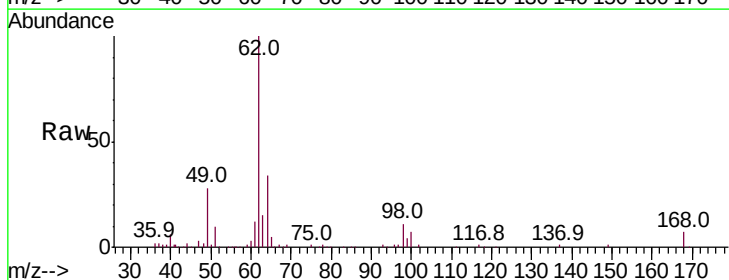
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

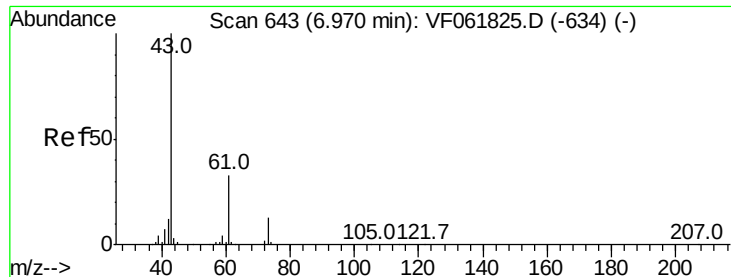
Tot Ion: 41 Resp: 51033
Ion Ratio Lower Upper
41 100
39 54.6 43.0 64.6
67 57.7 47.8 71.8
52 46.7 40.5 60.7



#42
1,2-Dichloroethane
Concen: 50.545 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion: 62 Resp: 140149
Ion Ratio Lower Upper
62 100
98 11.2 0.0 21.0





#43

Isopropyl Acetate

Concen: 48.813 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

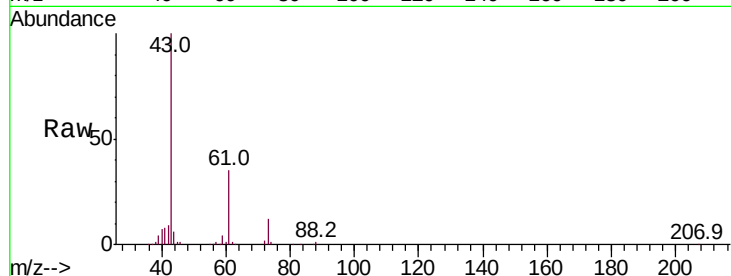
Tot Ion: 43 Resp: 107501

Ion Ratio Lower Upper

43 100

61 35.0 26.1 39.1

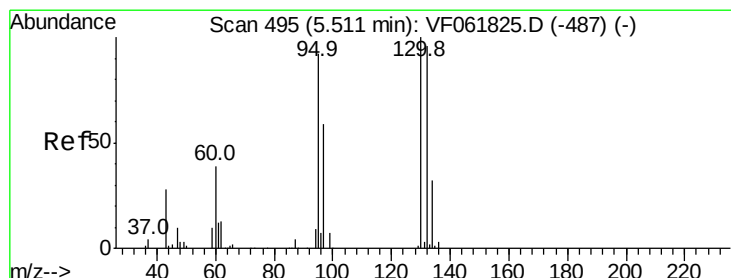
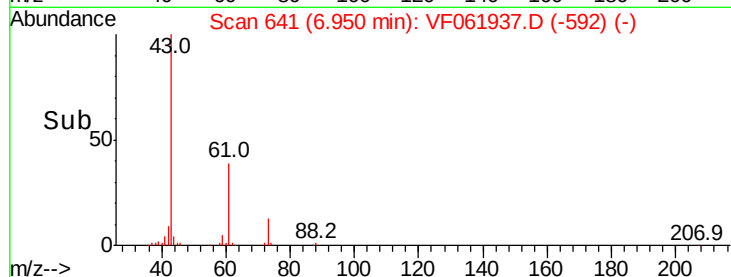
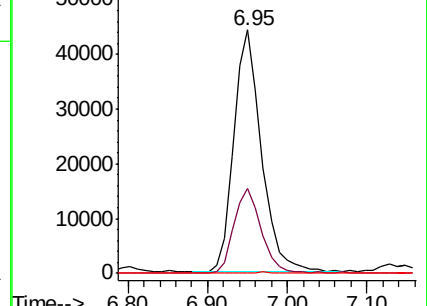
87 0.3 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 50.333 ug/l

RT: 5.49 min Scan# 493

Delta R.T. -0.02 min

Lab File: VF061937.D

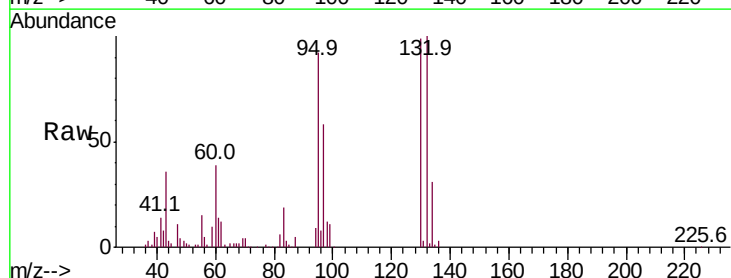
Acq: 14 Mar 2019 14:11

Tgt Ion:130 Resp: 174032

Ion Ratio Lower Upper

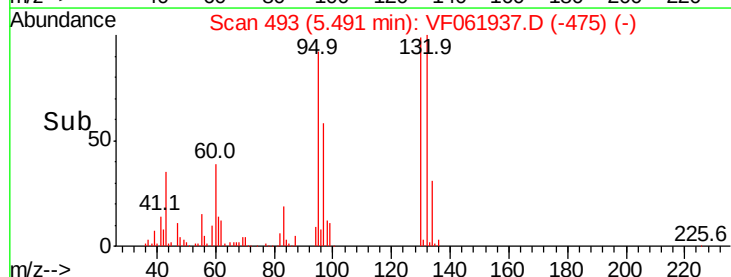
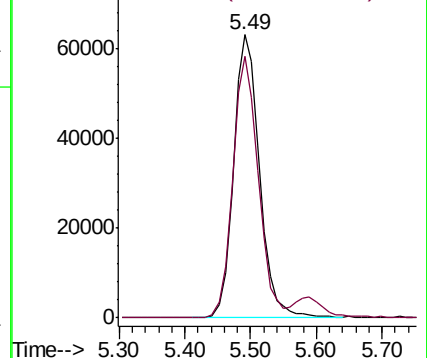
130 100

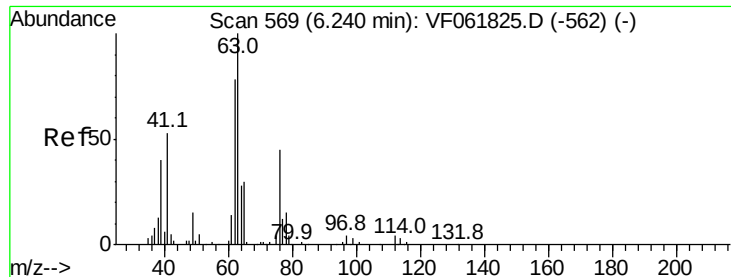
95 92.3 0.0 184.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 51.180 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampled :

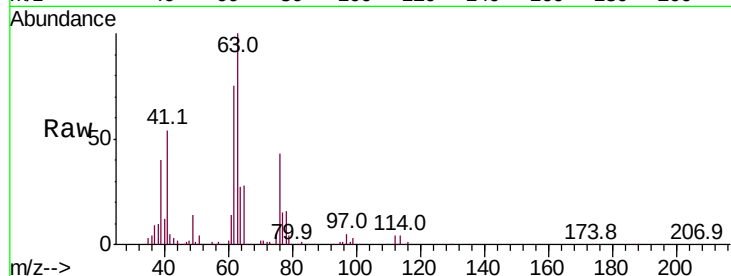
VSTDCCC050

Tot Ion: 63 Resp: 135406

Ion Ratio Lower Upper

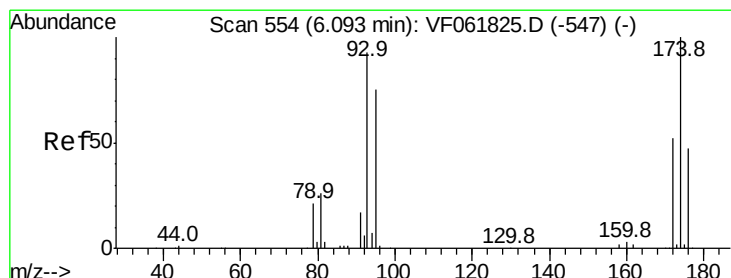
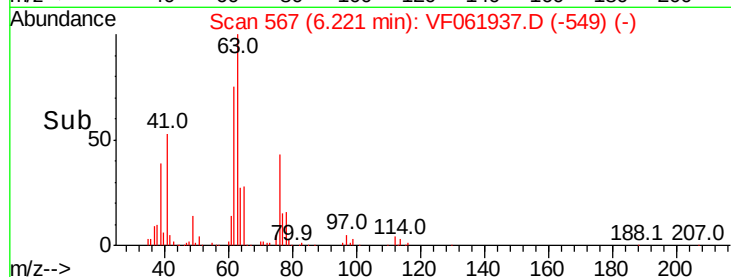
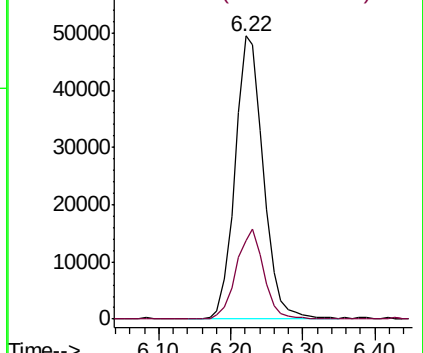
63 100

65 27.6 24.0 36.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 50.627 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

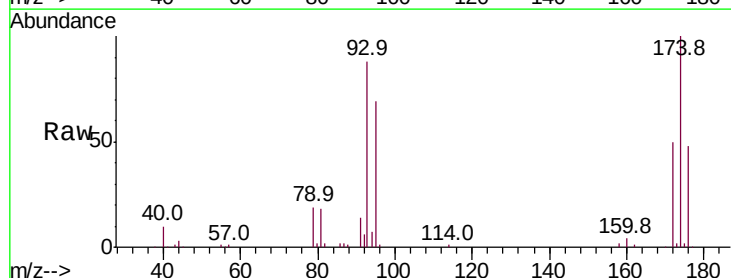
Tgt Ion: 93 Resp: 84300

Ion Ratio Lower Upper

93 100

95 79.3 64.4 96.6

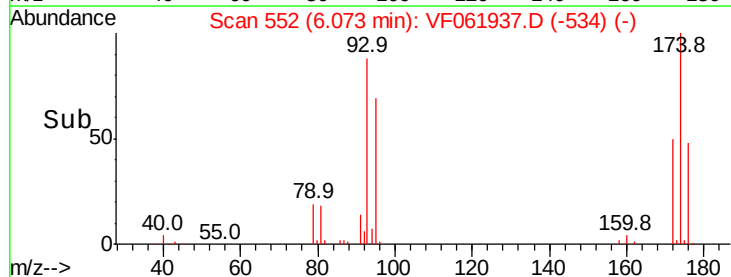
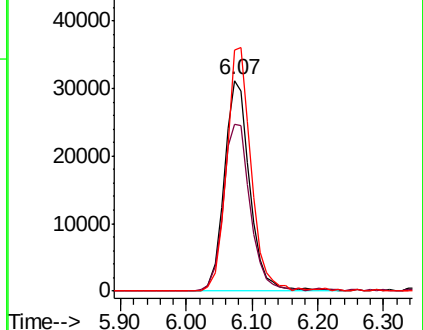
174 114.2 85.8 128.6

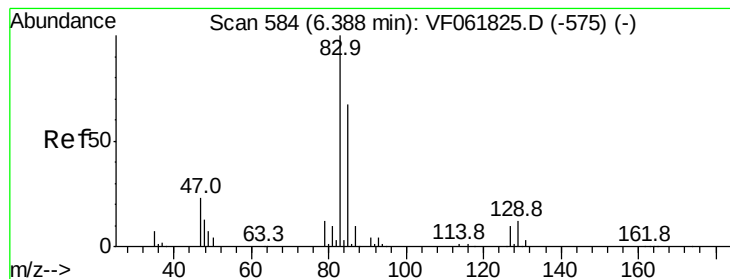


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 51.310 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

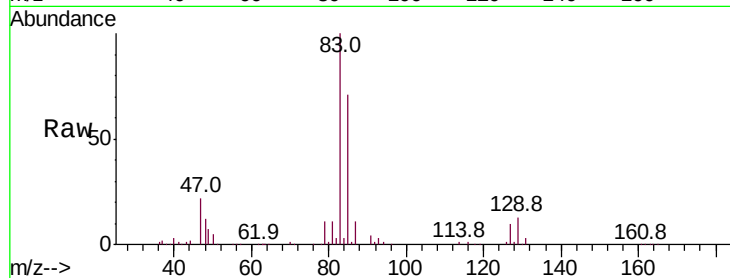
Tot Ion: 83 Resp: 188750

Ion Ratio Lower Upper

83 100

85 70.9 53.6 80.4

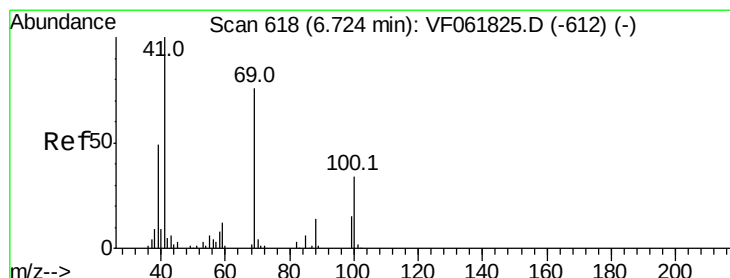
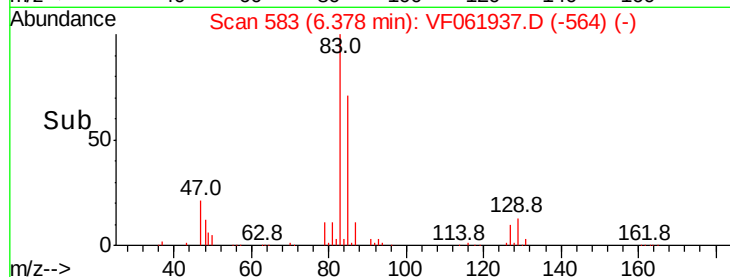
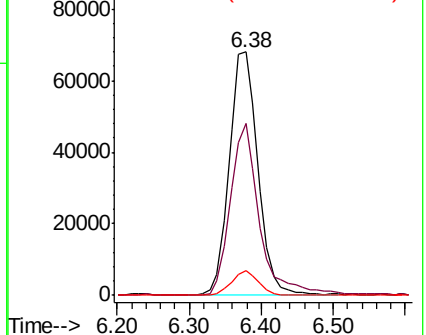
127 10.1 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 50.718 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

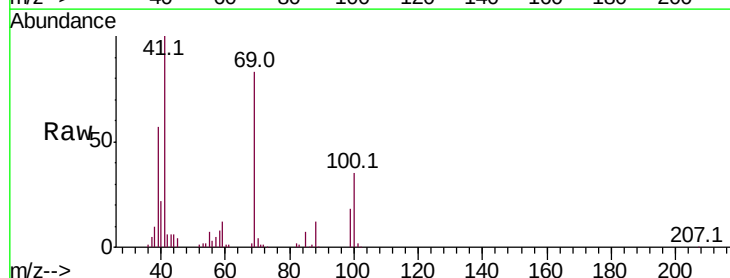
Tgt Ion: 41 Resp: 70690

Ion Ratio Lower Upper

41 100

69 83.3 60.4 90.6

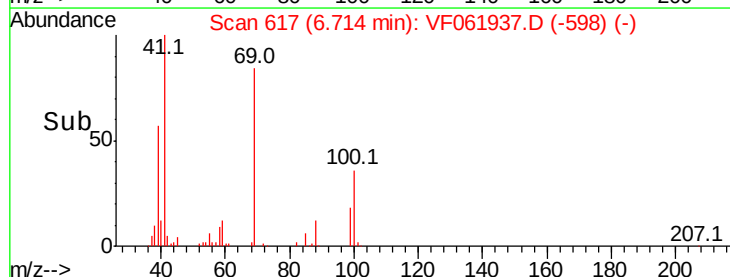
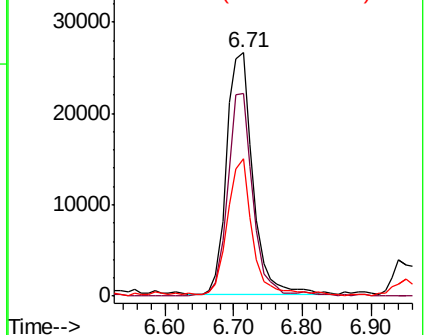
39 56.7 39.7 59.5

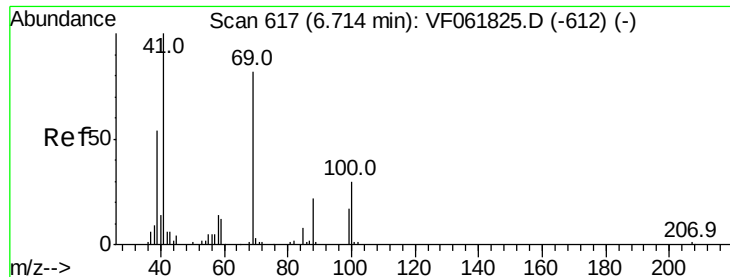


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 1023.215 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

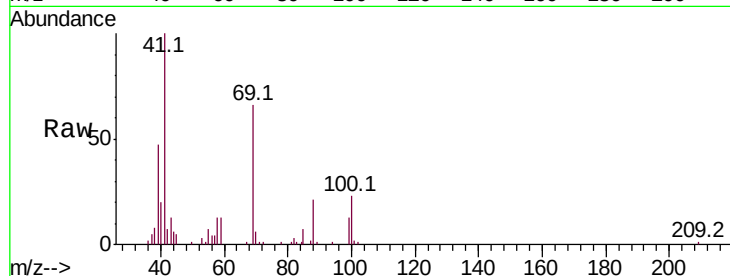
Tot Ion: 88 Resp: 13037

Ion Ratio Lower Upper

88 100

43 60.3 28.4 42.6#

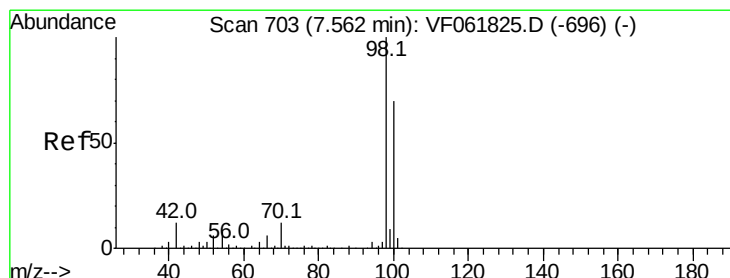
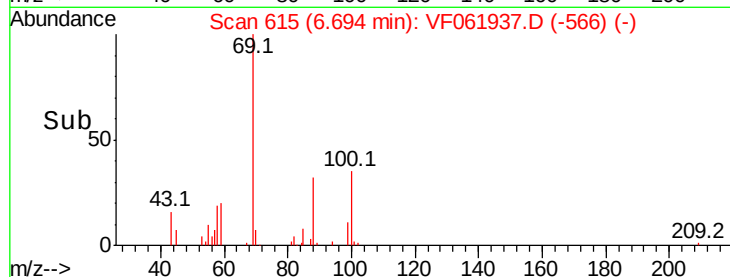
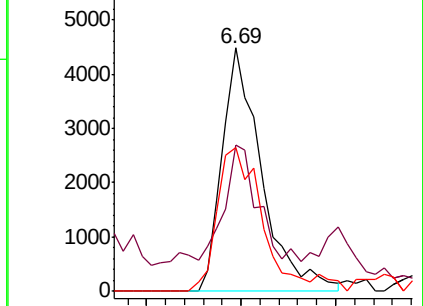
58 59.1 50.7 76.1



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 51.924 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061937.D

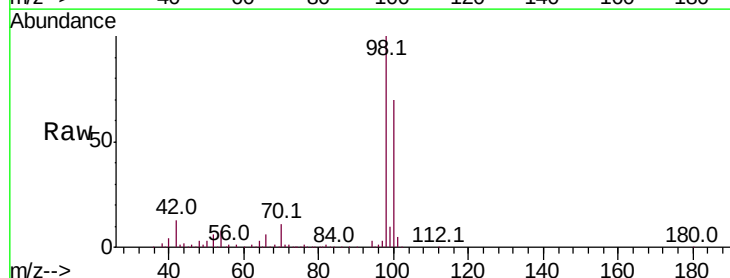
Acq: 14 Mar 2019 14:11

Tgt Ion: 98 Resp: 485332

Ion Ratio Lower Upper

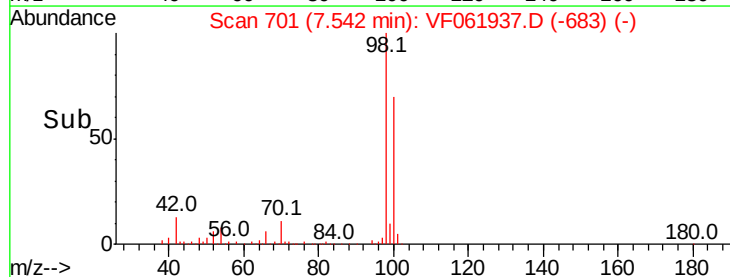
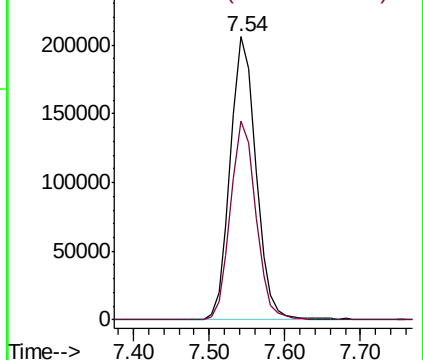
98 100

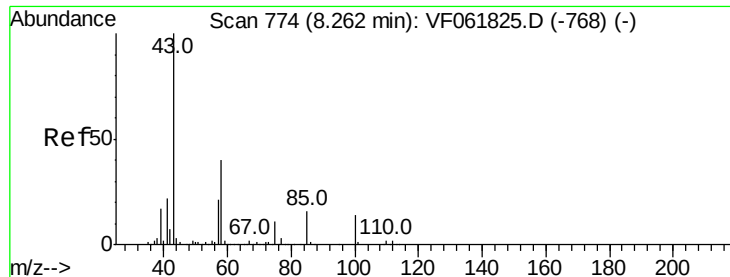
100 70.1 56.0 84.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 258.250 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

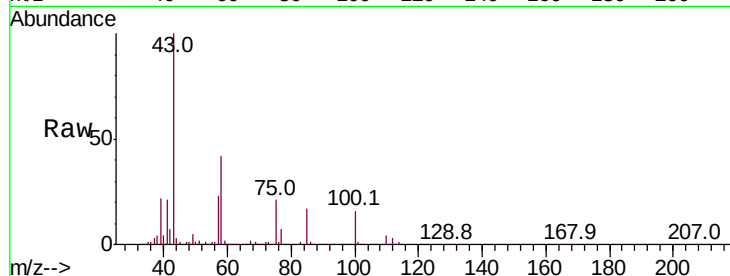
VSTDCCC050

Tot Ion: 43 Resp: 393079

Ion Ratio Lower Upper

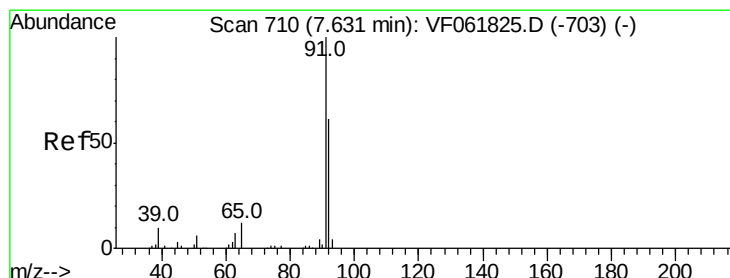
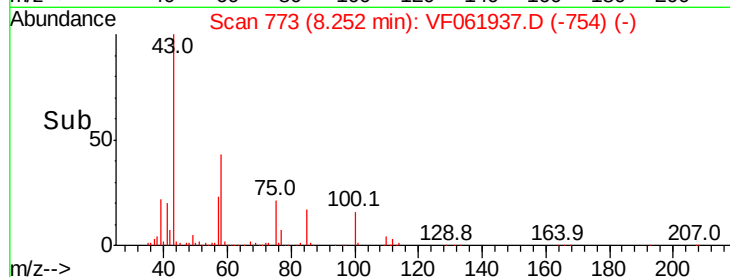
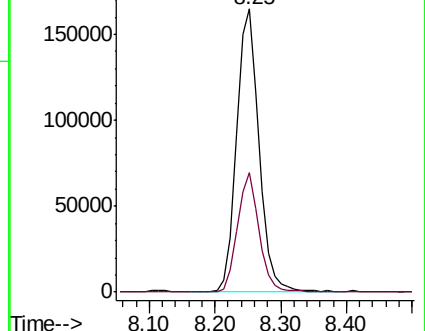
43 100

58 42.4 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 48.632 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061937.D

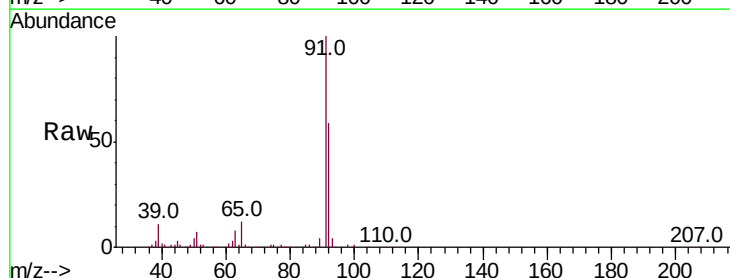
Acq: 14 Mar 2019 14:11

Tgt Ion: 92 Resp: 320091

Ion Ratio Lower Upper

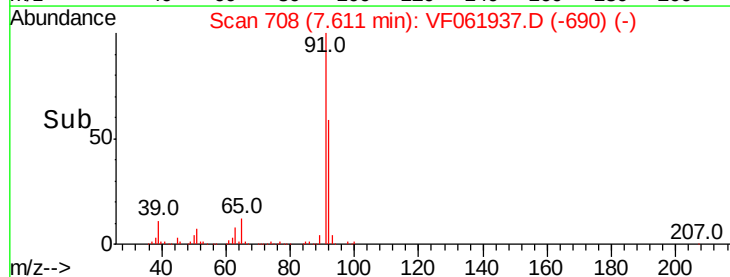
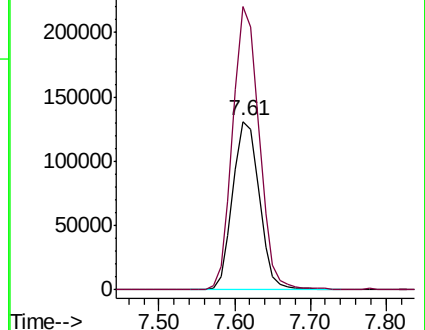
92 100

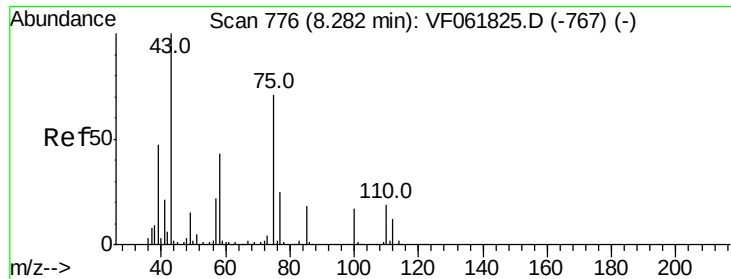
91 168.1 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 51.721 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

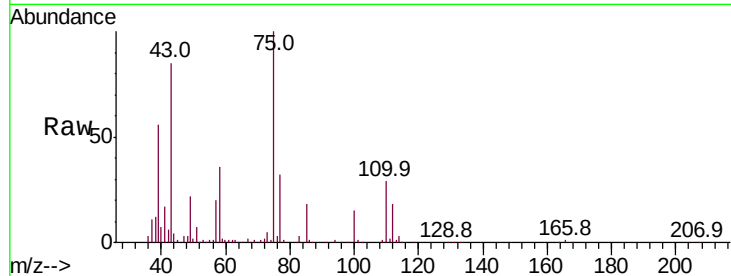
VSTDCCC050

Tot Ion: 75 Resp: 157052

Ion Ratio Lower Upper

75 100

77 32.3 28.0 42.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.27

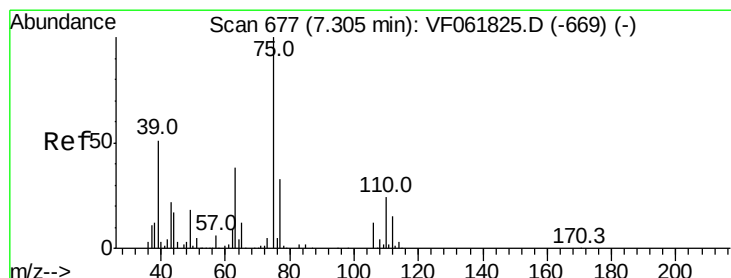
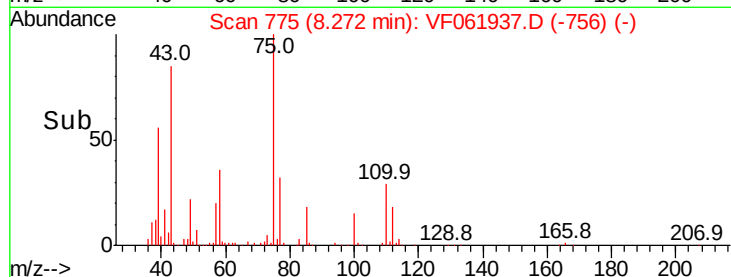
60000

40000

20000

0

Time--> 8.10 8.20 8.30 8.40



#54

cis-1,3-Dichloropropene

Concen: 50.169 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

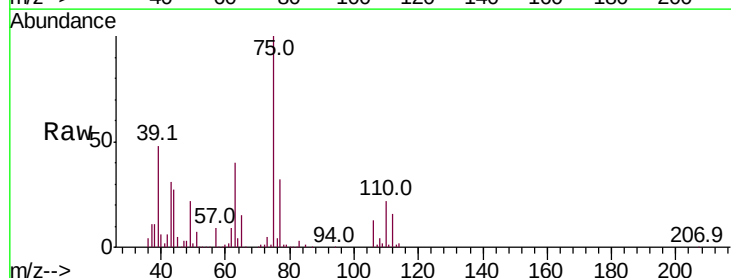
Tgt Ion: 75 Resp: 210125

Ion Ratio Lower Upper

75 100

77 31.7 26.3 39.5

39 48.4 40.8 61.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

7.29

100000

80000

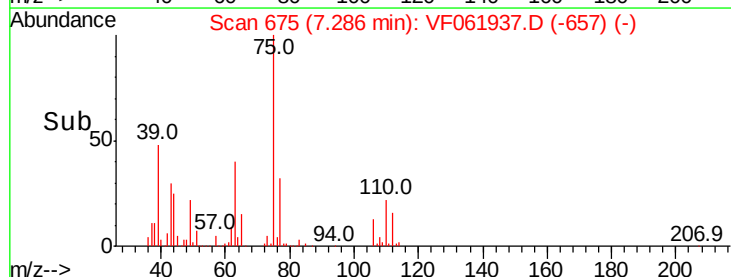
60000

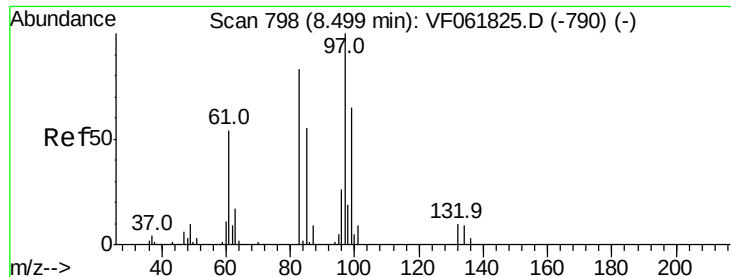
40000

20000

0

Time--> 7.20 7.30 7.40





#55

1,1,2-Trichloroethane

Concen: 49.696 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 94245

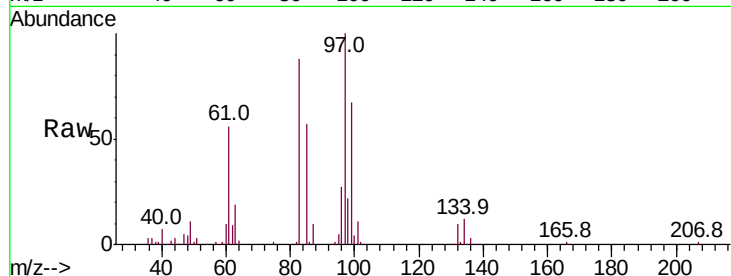
Ion Ratio Lower Upper

97 100

83 87.6 66.5 99.7

85 56.7 44.2 66.2

99 66.5 51.8 77.6

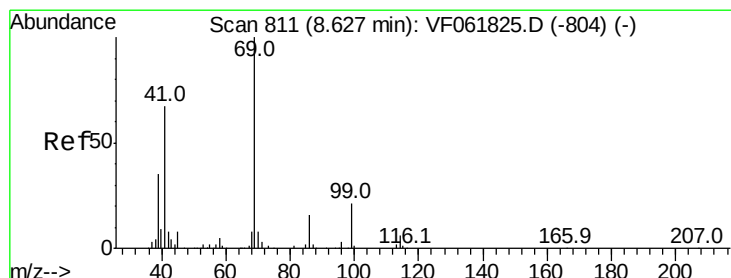
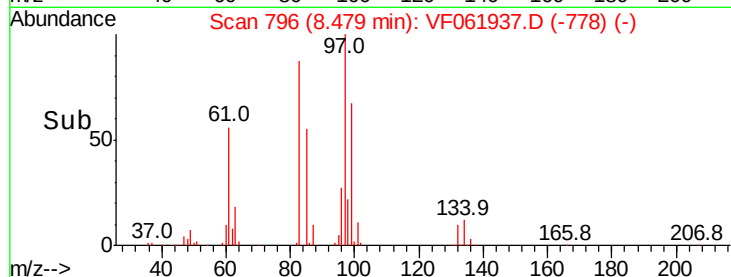
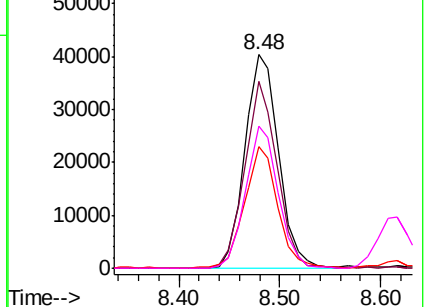


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 48.473 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

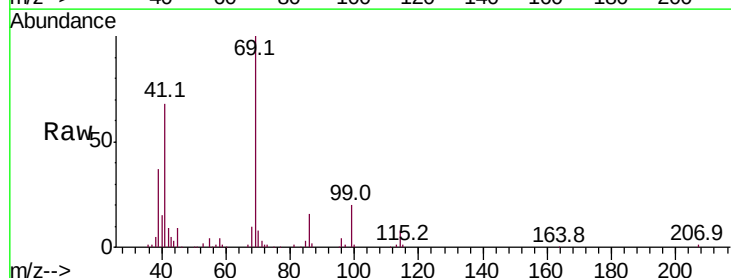
Tgt Ion: 69 Resp: 103599

Ion Ratio Lower Upper

69 100

41 67.6 53.9 80.9

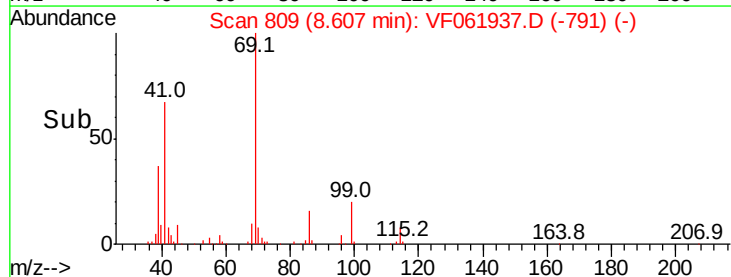
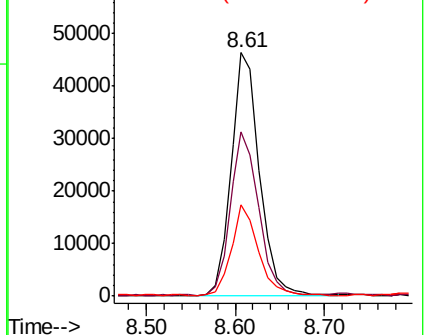
39 37.4 28.3 42.5

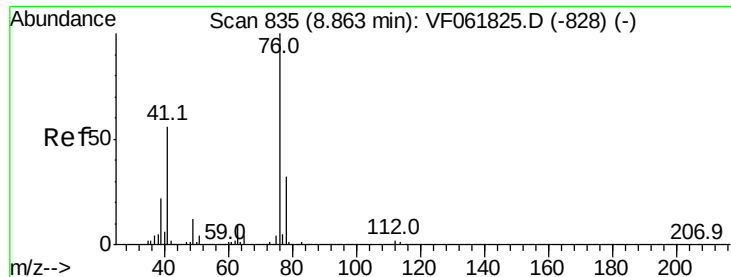


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 50.944 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

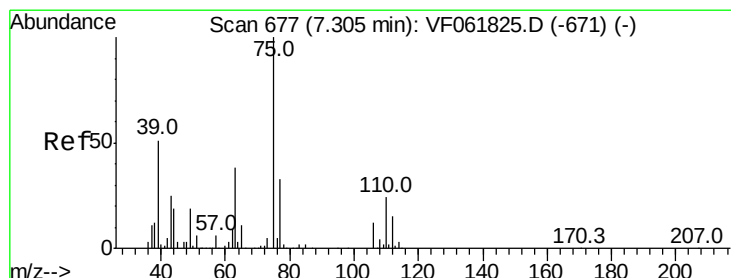
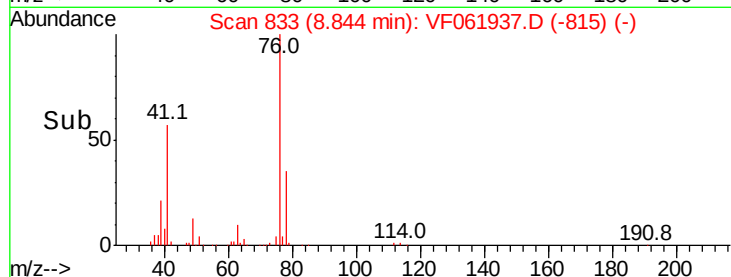
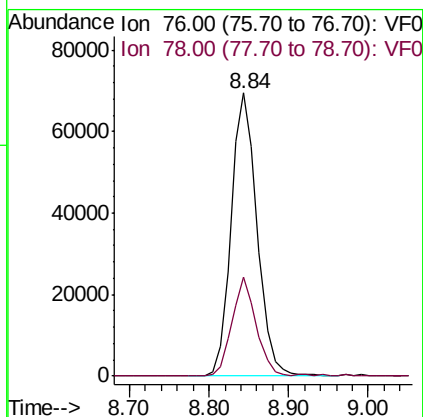
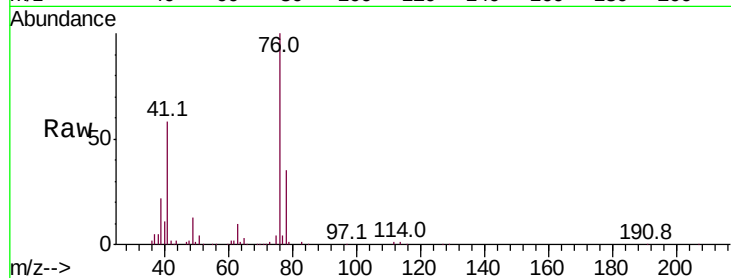
VSTDCCC050

Tot Ion: 76 Resp: 157996

Ion Ratio Lower Upper

76 100

78 34.8 25.4 38.2



#58

2-Chloroethyl Vinyl ether

Concen: 242.346 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061937.D

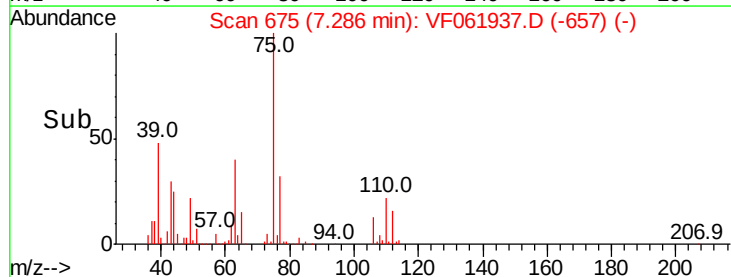
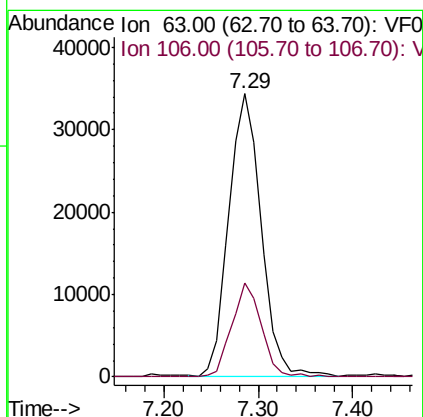
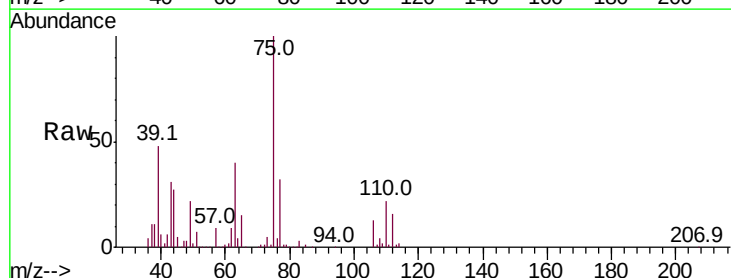
Acq: 14 Mar 2019 14:11

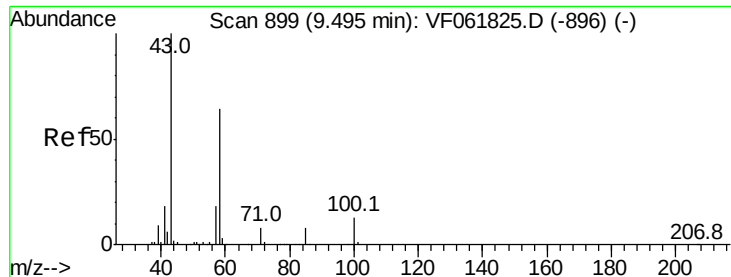
Tgt Ion: 63 Resp: 81936

Ion Ratio Lower Upper

63 100

106 33.3 24.3 36.5

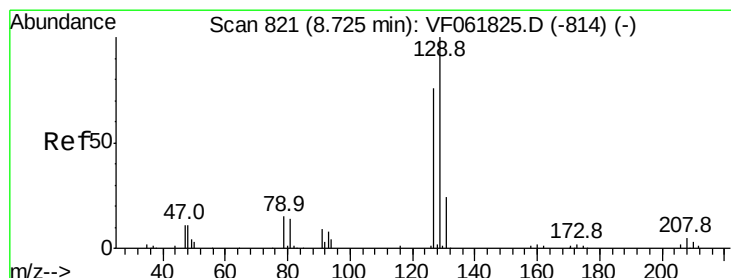
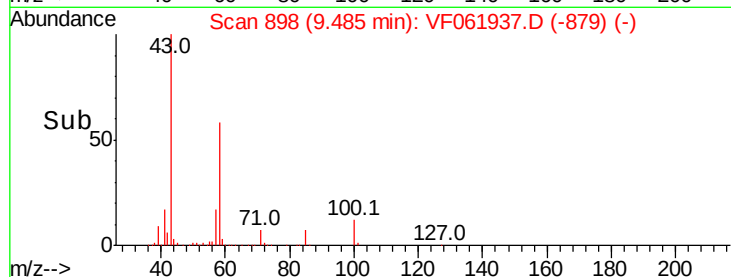
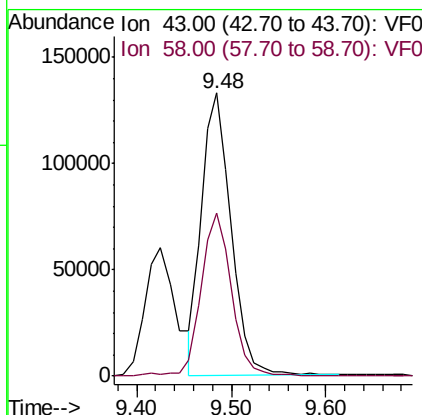
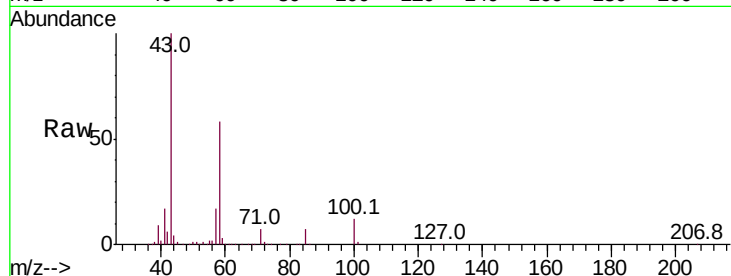




#59
2-Hexanone
Concen: 262.593 ug/l
RT: 9.48 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

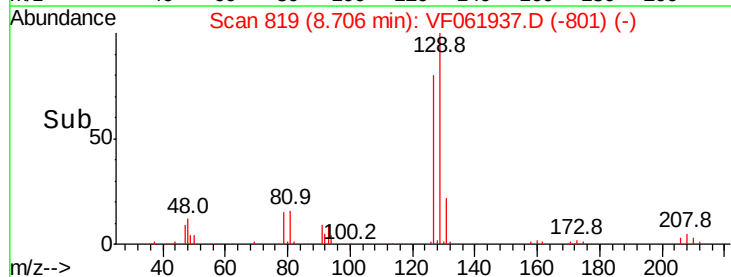
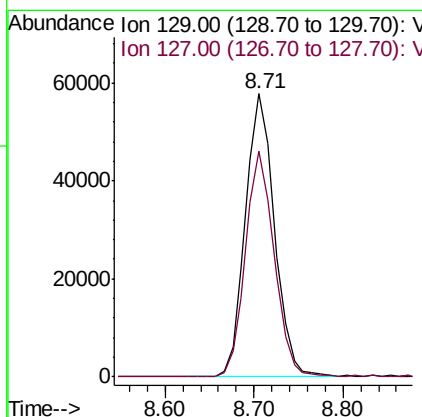
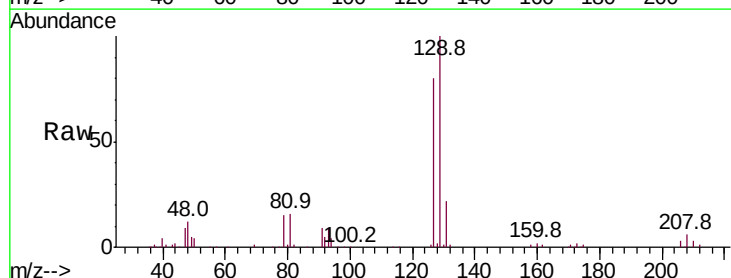
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

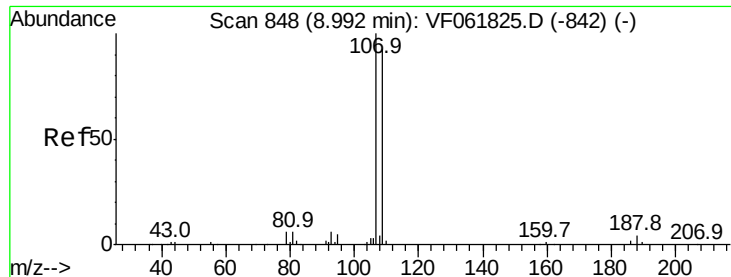
Tot Ion: 43 Resp: 288342
Ion Ratio Lower Upper
43 100
58 57.6 28.8 86.4



#60
Dibromochloromethane
Concen: 48.295 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion: 129 Resp: 130537
Ion Ratio Lower Upper
129 100
127 79.6 38.2 114.6





#61

1,2-Dibromoethane

Concen: 49.317 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

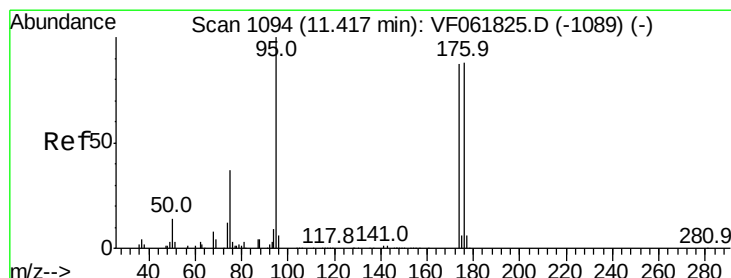
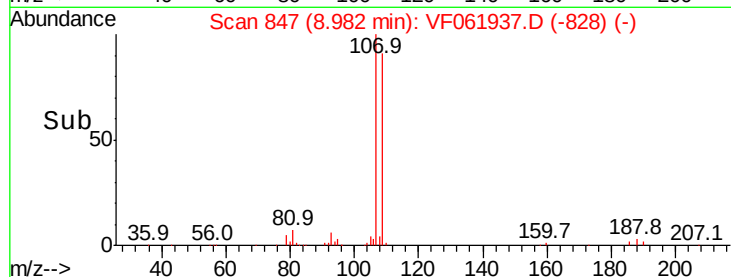
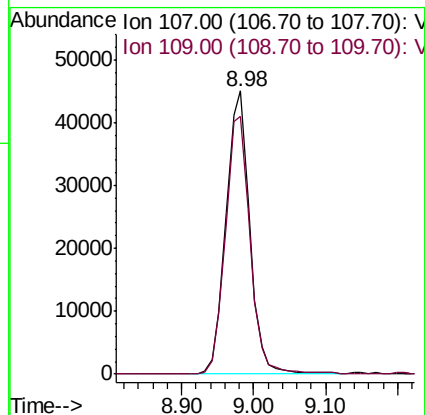
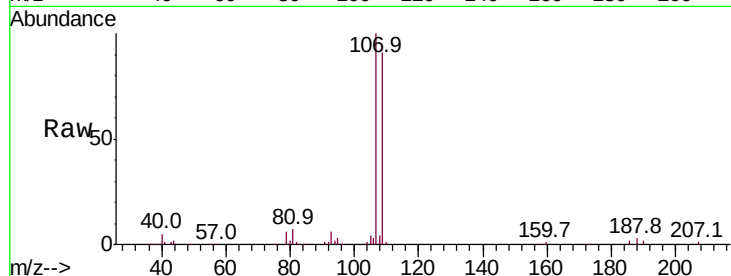
VSTDCCC050

Tot Ion:107 Resp: 102848

Ion Ratio Lower Upper

107 100

109 91.3 74.6 112.0



#62

4-Bromofluorobenzene

Concen: 47.022 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

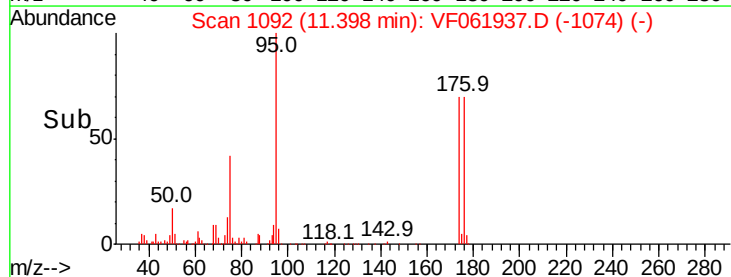
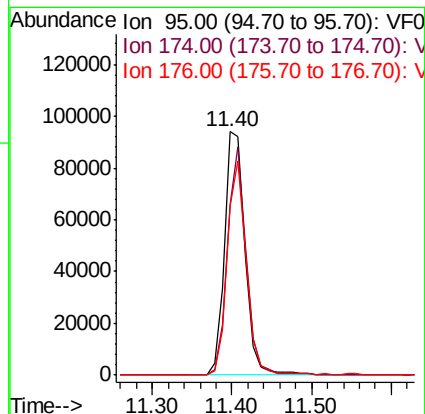
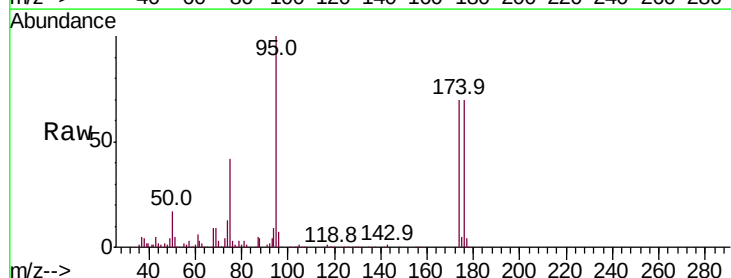
Tgt Ion: 95 Resp: 172169

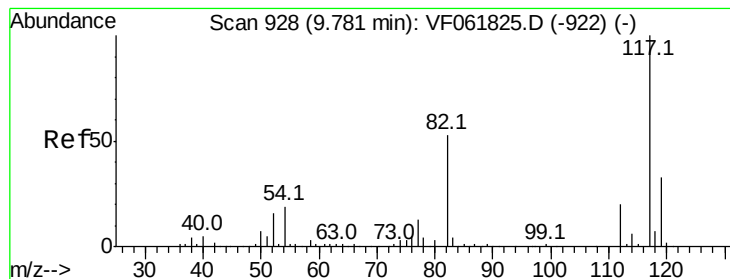
Ion Ratio Lower Upper

95 100

174 69.9 0.0 174.0

176 69.5 0.0 175.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

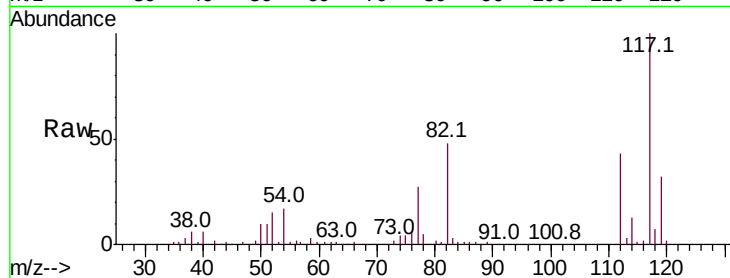
Tot Ion:117 Resp: 379247

Ion Ratio Lower Upper

117 100

82 48.3 42.6 63.8

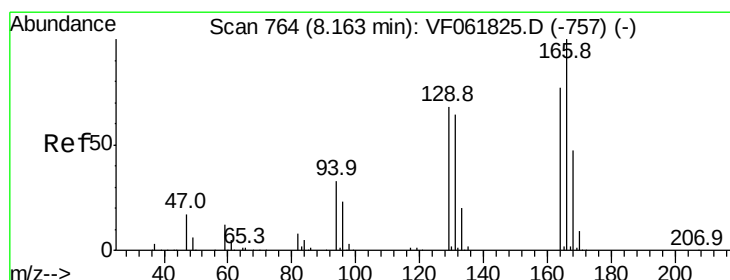
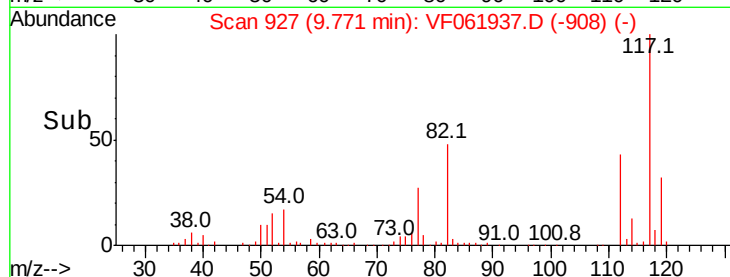
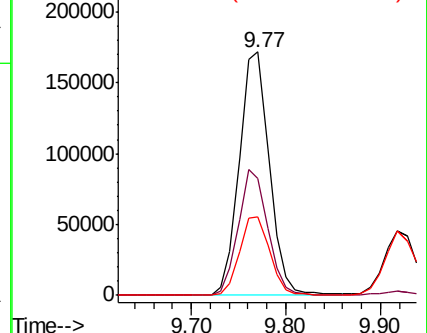
119 32.4 26.0 39.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 50.273 ug/l

RT: 8.14 min Scan# 762

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Tgt Ion:164 Resp: 146502

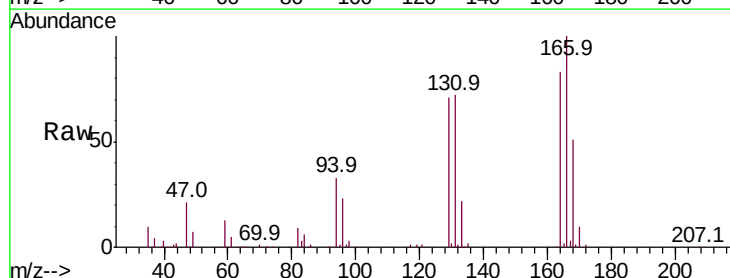
Ion Ratio Lower Upper

164 100

166 120.3 103.4 155.0

129 85.3 69.9 104.9

131 86.4 66.4 99.6

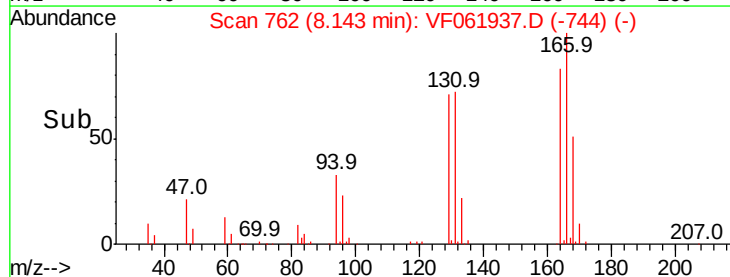
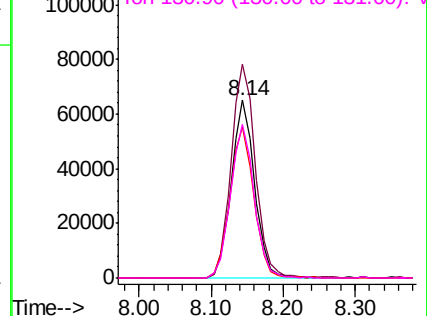


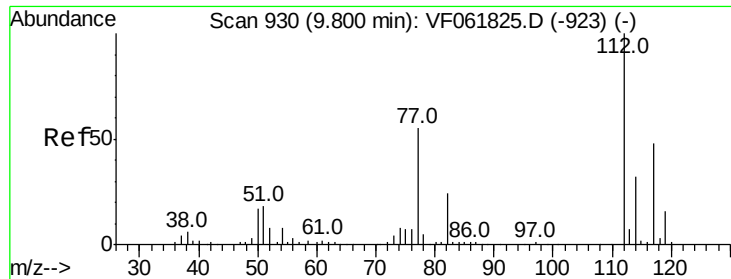
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

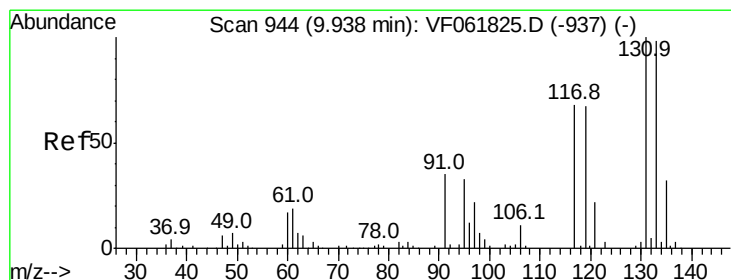
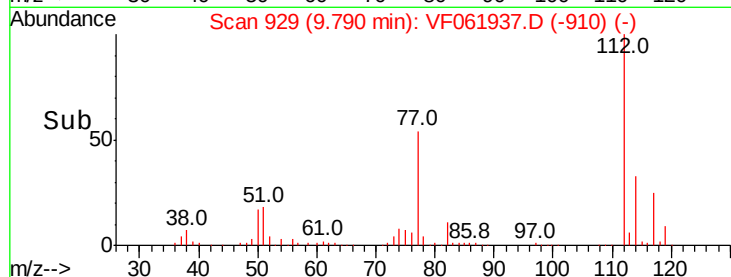
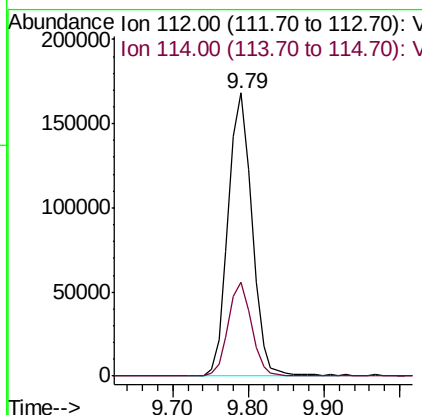
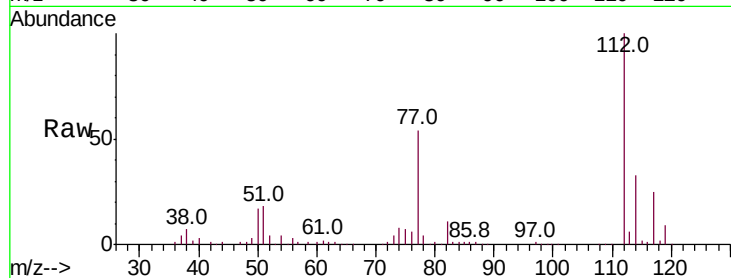




#65
Chlorobenzene
Concen: 50.736 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

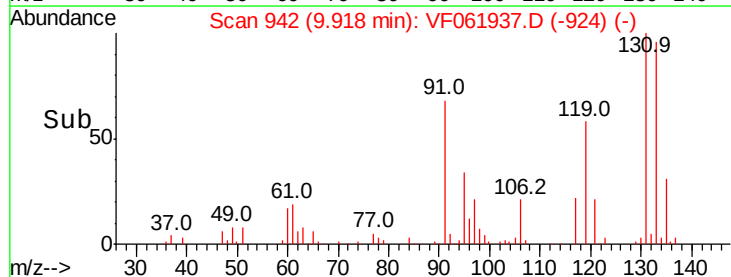
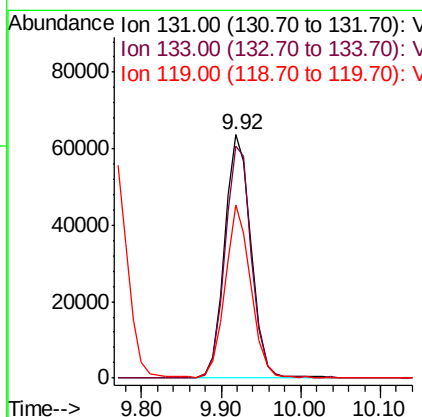
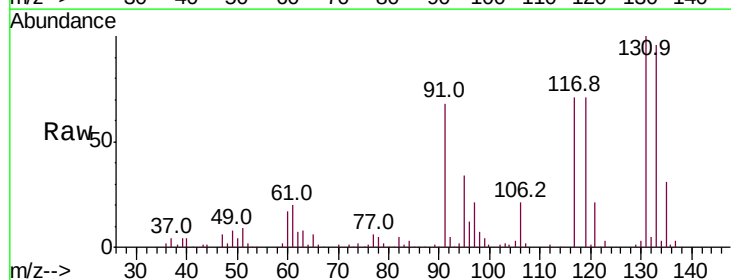
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

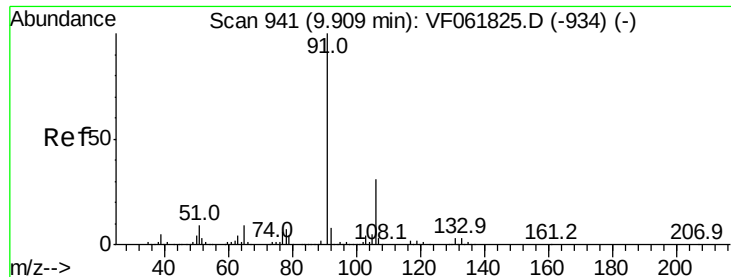
Tot Ion:112 Resp: 369675
Ion Ratio Lower Upper
112 100
114 33.3 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 52.479 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion:131 Resp: 148148
Ion Ratio Lower Upper
131 100
133 95.5 48.9 146.7
119 71.4 33.6 100.8

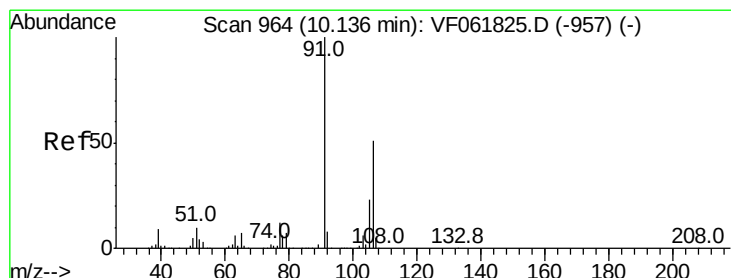
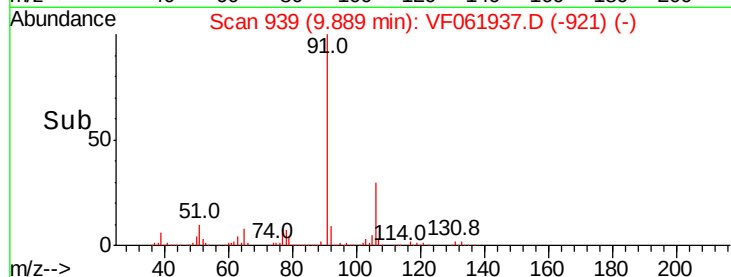
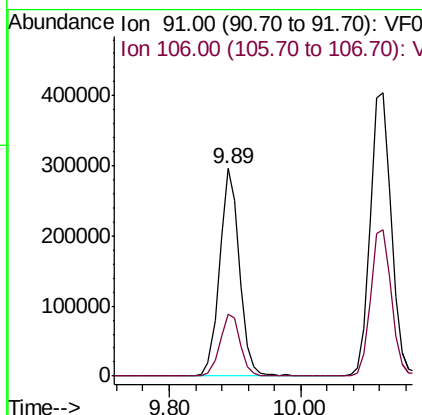
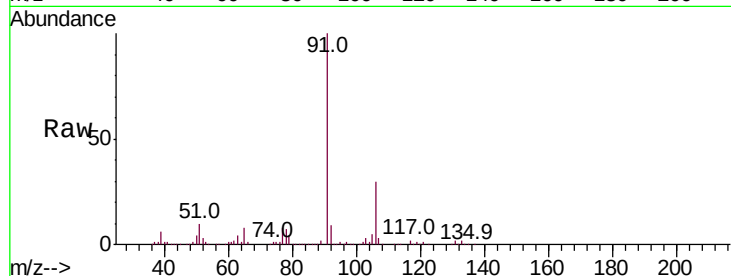




#67
Ethyl Benzene
Concen: 51.515 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

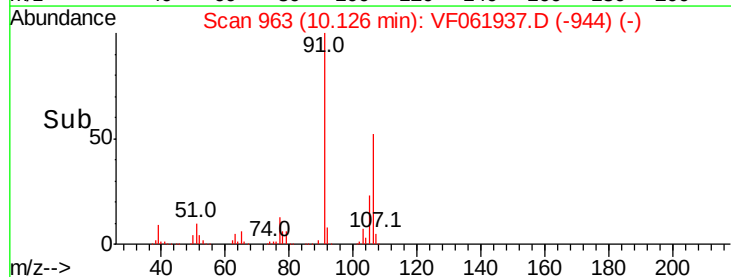
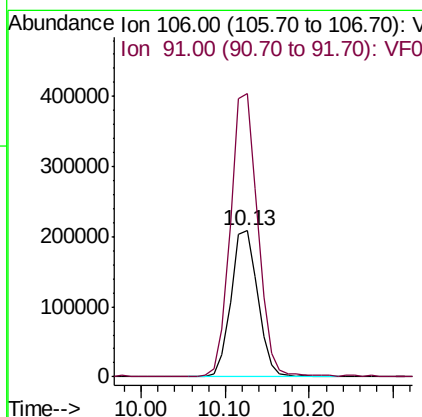
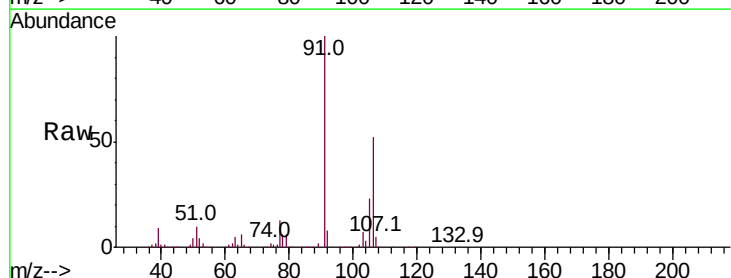
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

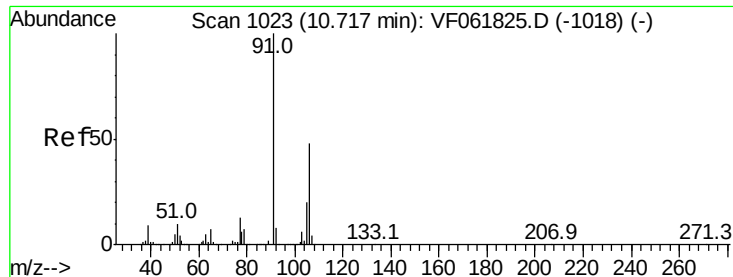
Tot Ion: 91 Resp: 622123
Ion Ratio Lower Upper
91 100
106 30.1 25.0 37.4



#68
m/p-Xylenes
Concen: 100.340 ug/l
RT: 10.13 min Scan# 963
Delta R.T. -0.01 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion: 106 Resp: 464207
Ion Ratio Lower Upper
106 100
91 193.5 157.5 236.3

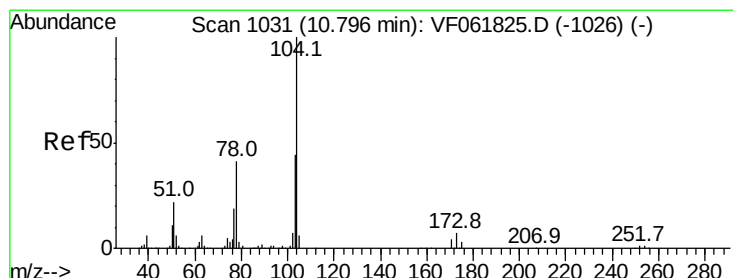
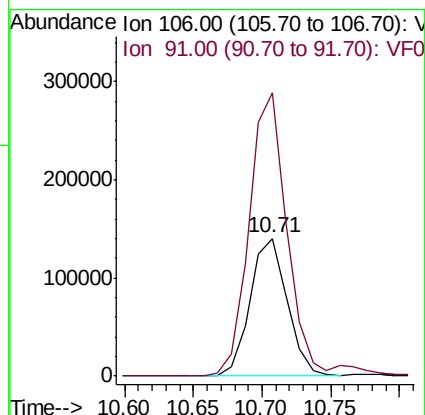
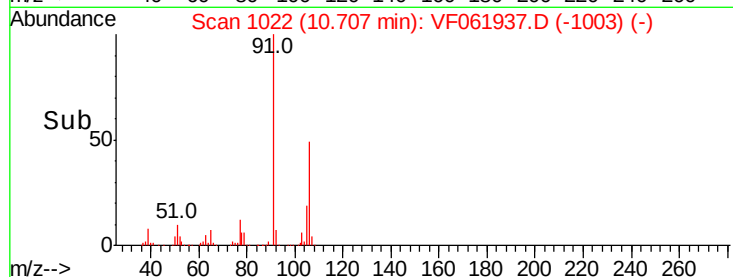
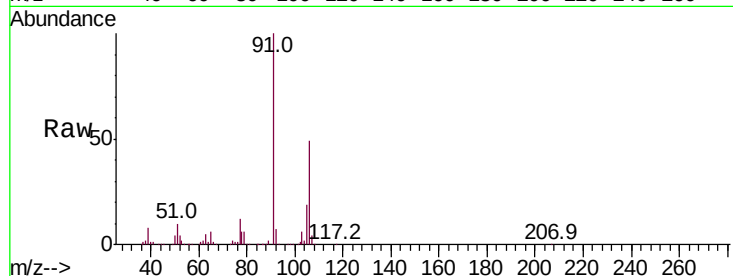




#69
o-Xylene
Concen: 53.232 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

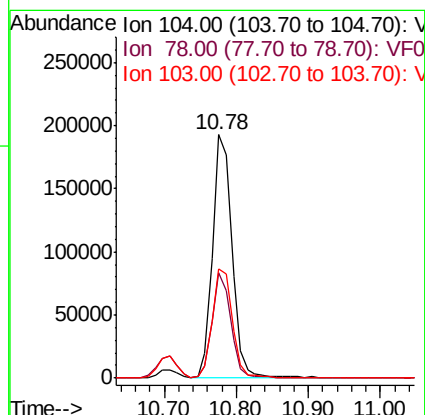
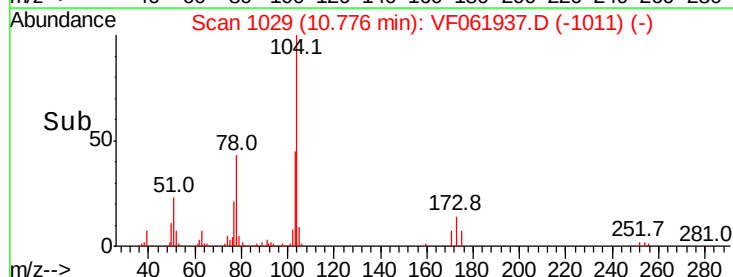
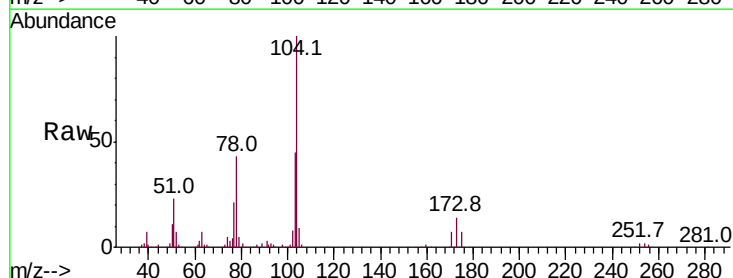
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

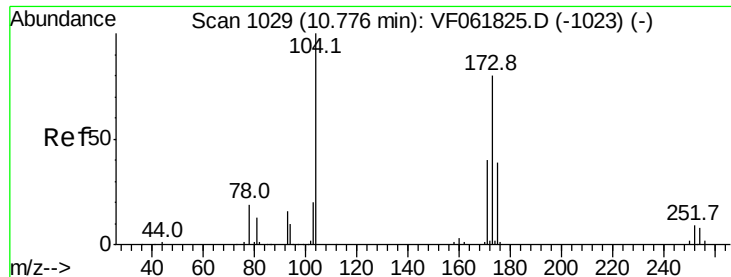
Tot Ion:106 Resp: 265187
Ion Ratio Lower Upper
106 100
91 205.5 103.5 310.3



#70
Styrene
Concen: 51.060 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion:104 Resp: 357976
Ion Ratio Lower Upper
104 100
78 43.1 33.3 49.9
103 45.1 35.4 53.0





#71

Bromoform

Concen: 49.373 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

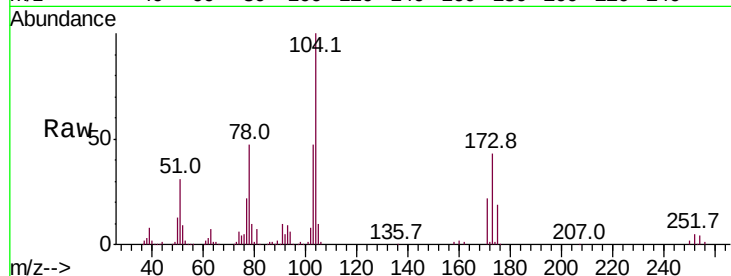
Tot Ion:173 Resp: 73664

Ion Ratio Lower Upper

173 100

175 45.0 24.5 73.5

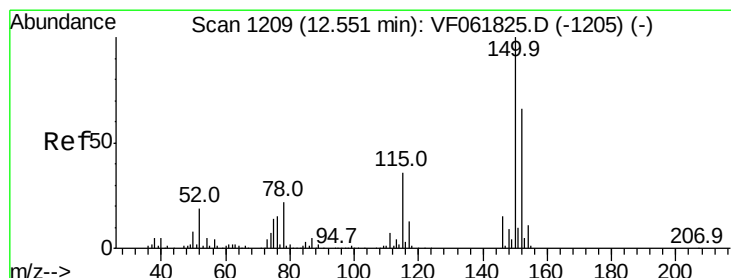
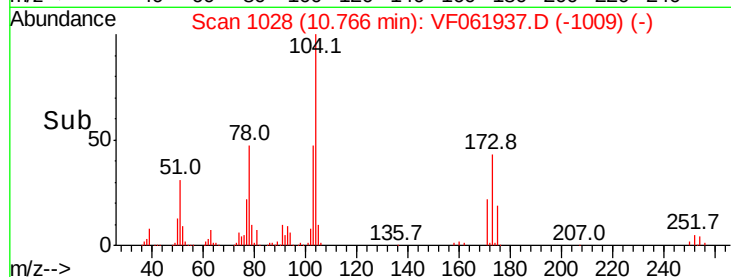
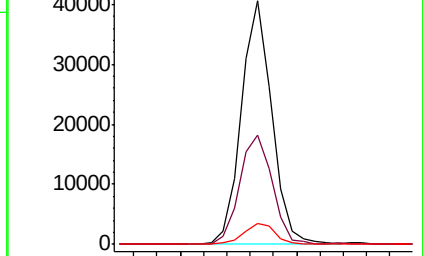
254 8.6 8.0 12.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

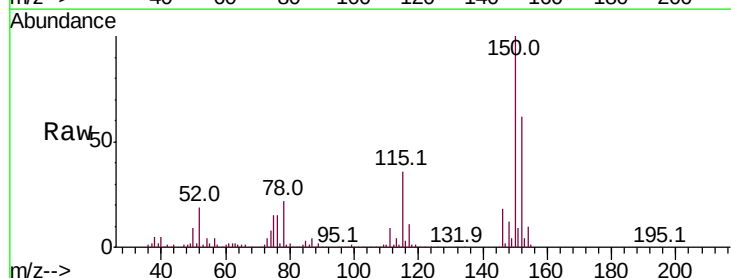
Tgt Ion:152 Resp: 199816

Ion Ratio Lower Upper

152 100

115 57.7 27.7 83.1

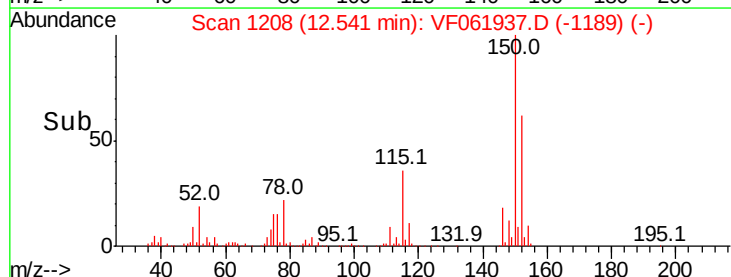
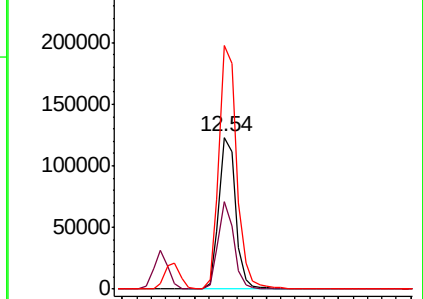
150 160.3 0.0 304.2

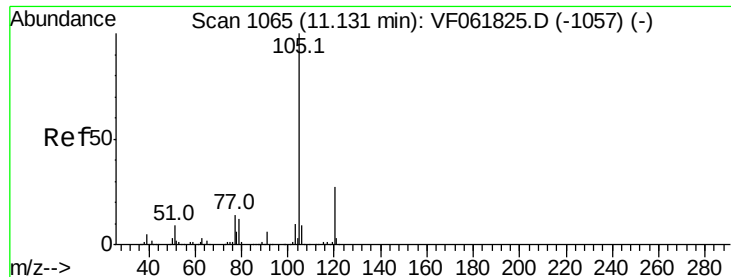


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 51.011 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

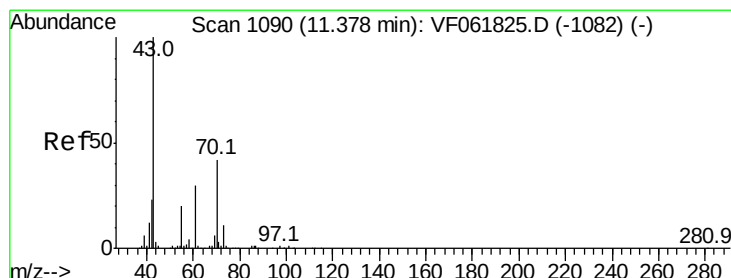
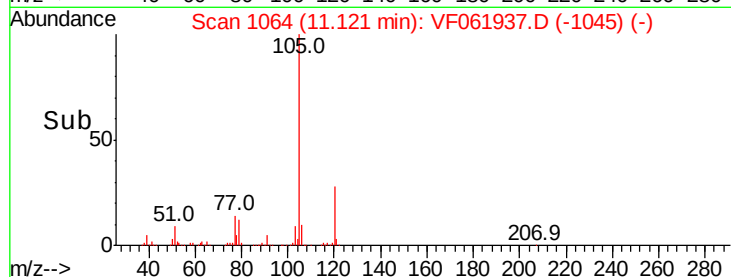
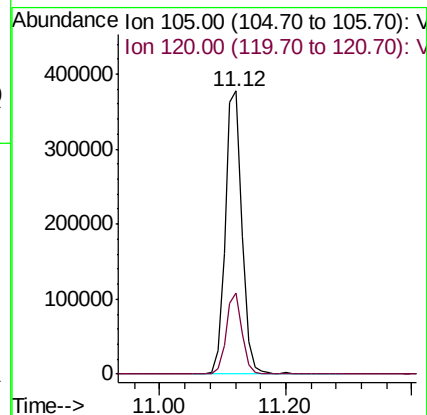
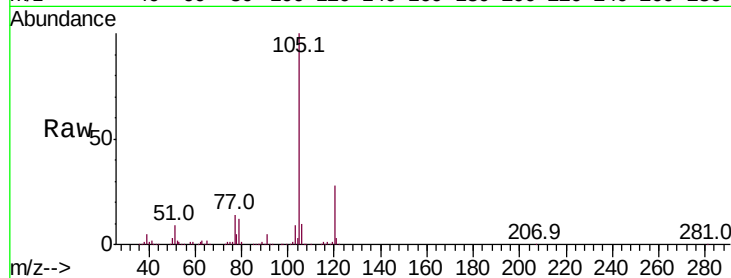
VSTDCCC050

Tot Ion:105 Resp: 701719

Ion Ratio Lower Upper

105 100

120 28.4 13.7 41.0



#74

N-ethyl acetate

Concen: 54.079 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Tgt Ion: 43 Resp: 171264

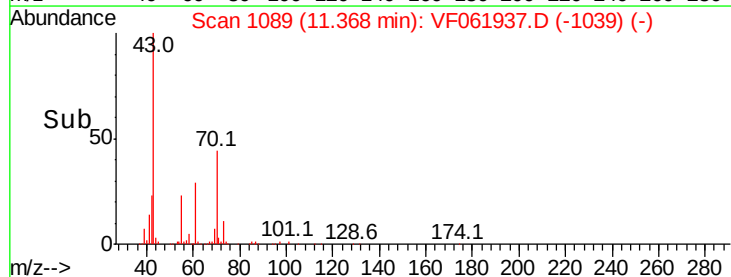
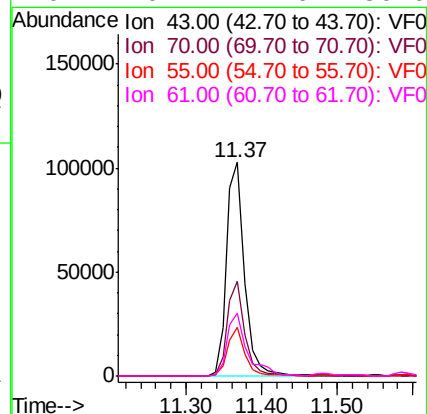
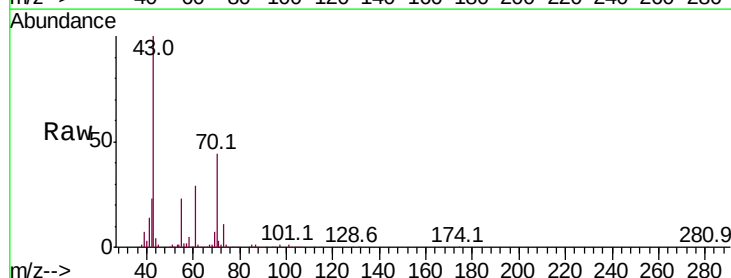
Ion Ratio Lower Upper

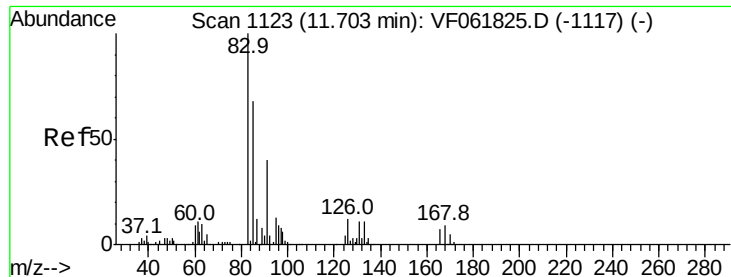
43 100

70 44.2 33.4 50.0

55 22.6 16.3 24.5

61 29.2 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 51.653 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

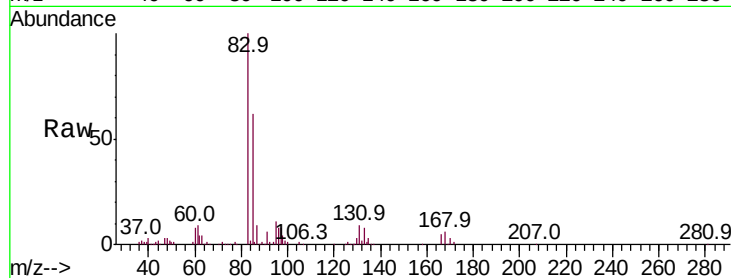
Tot Ion: 83 Resp: 118095

Ion	Ratio	Lower	Upper
83	100		
131	8.8	5.5	16.7
85	62.4	34.2	102.6

83 100

131 8.8 5.5 16.7

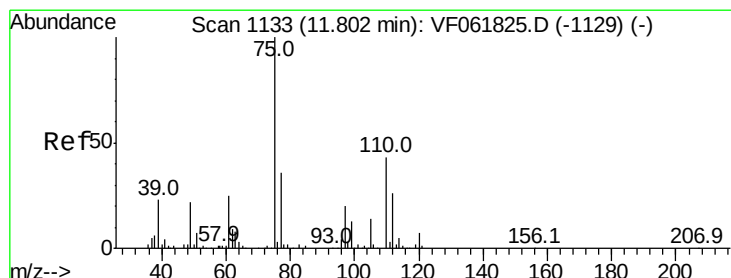
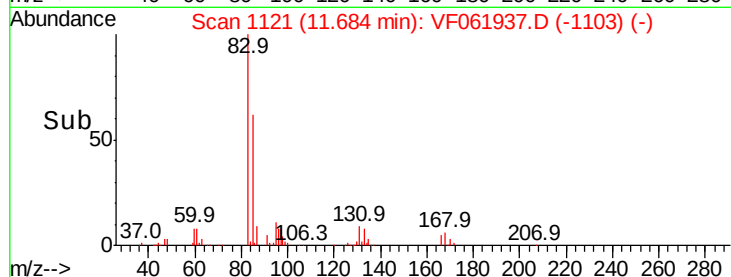
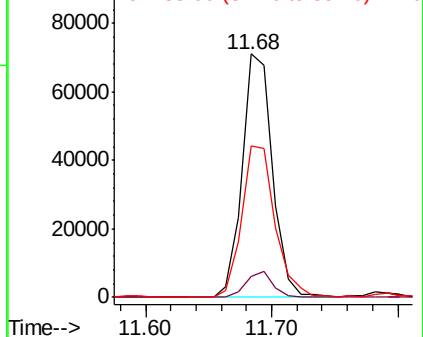
85 62.4 34.2 102.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 52.235 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061937.D

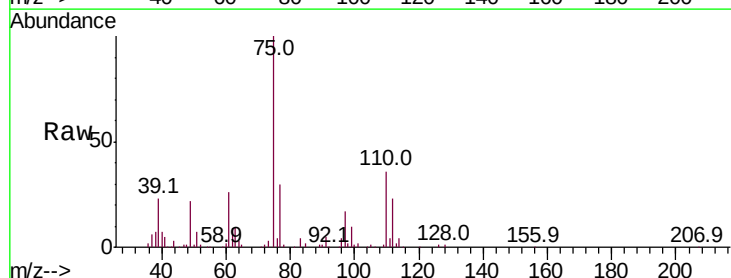
Acq: 14 Mar 2019 14:11

Tgt Ion: 75 Resp: 81509

Ion	Ratio	Lower	Upper
75	100		
77	30.0	18.1	54.4

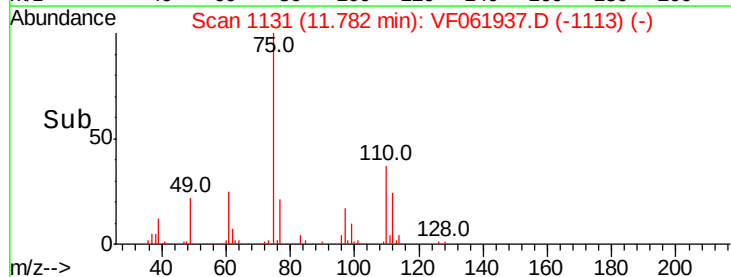
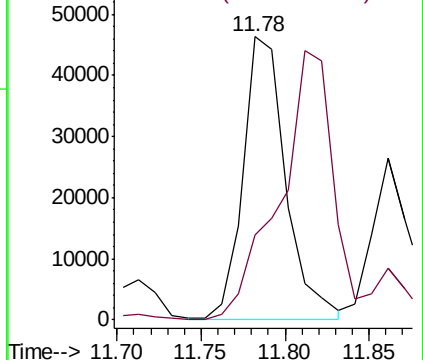
75 100

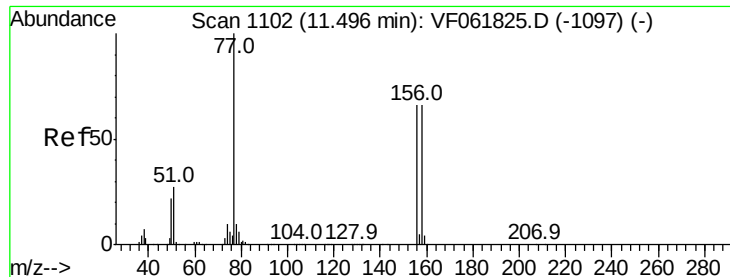
77 30.0 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 49.742 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

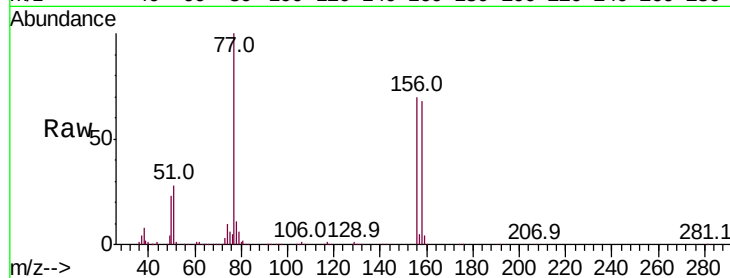
Tot Ion:156 Resp: 164680

Ion Ratio Lower Upper

156 100

77 143.7 75.7 227.1

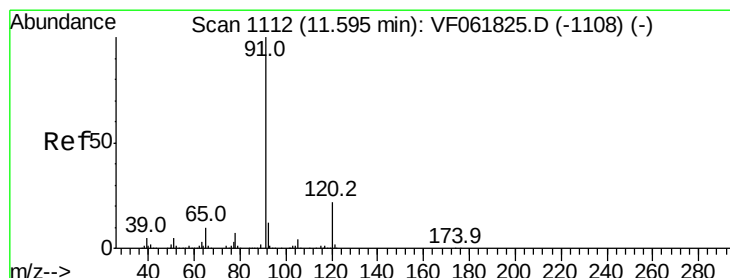
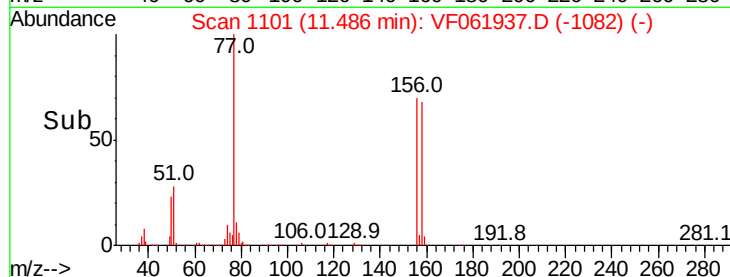
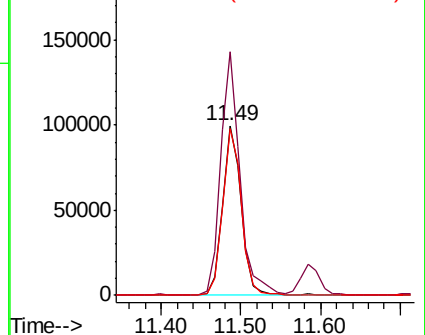
158 98.3 50.0 150.1



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: 50.926 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF061937.D

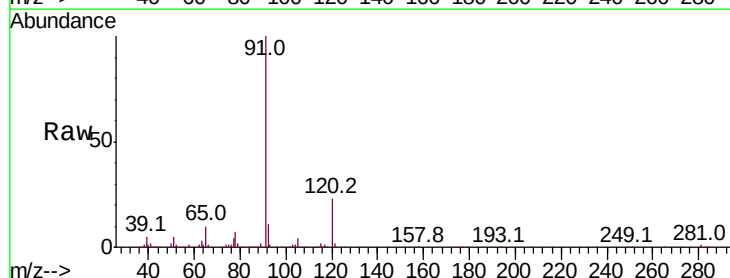
Acq: 14 Mar 2019 14:11

Tgt Ion: 91 Resp: 791123

Ion Ratio Lower Upper

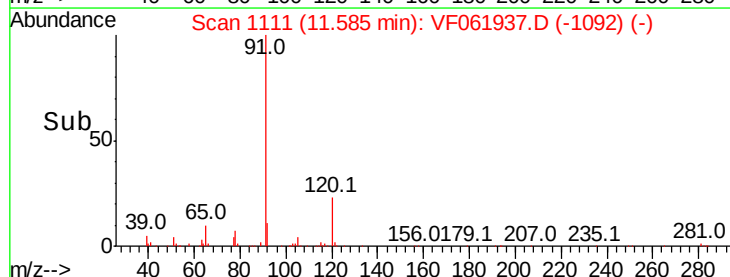
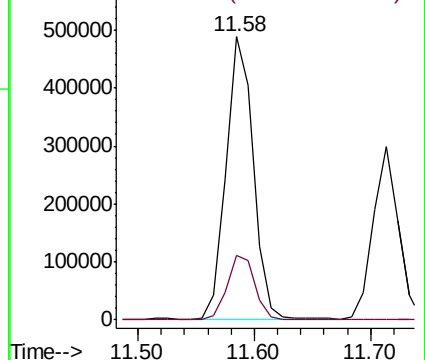
91 100

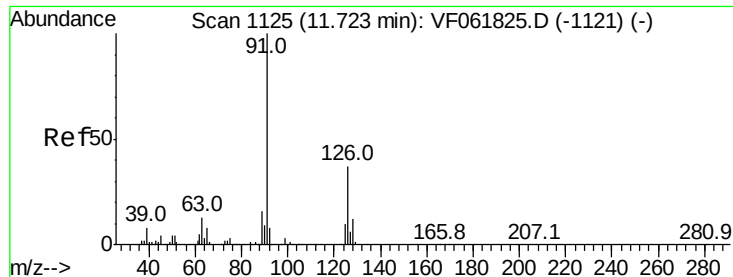
120 22.6 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.317 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

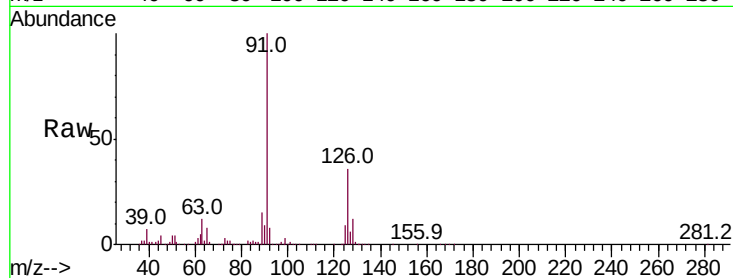
VSTDCCC050

Tot Ion: 91 Resp: 446890

Ion Ratio Lower Upper

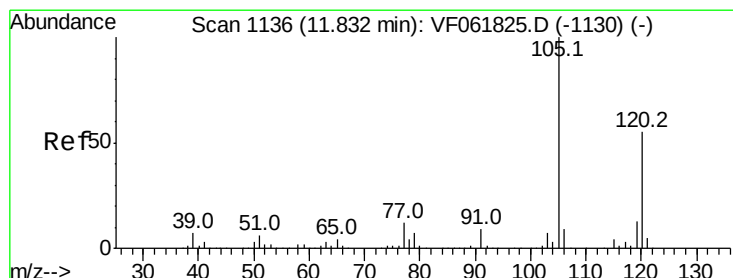
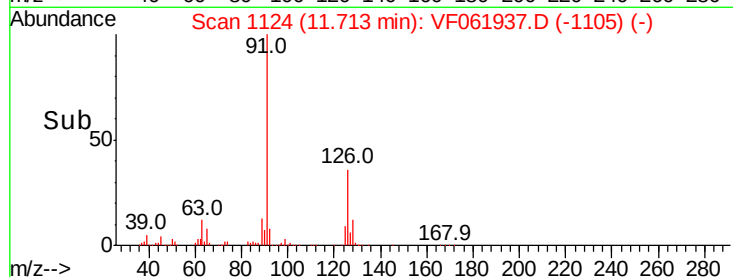
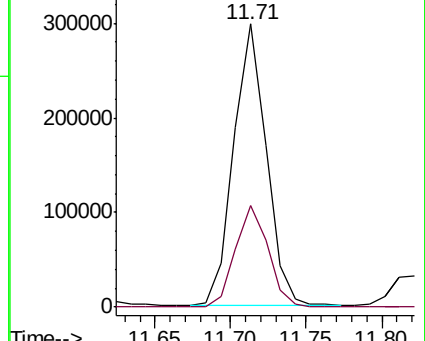
91 100

126 35.8 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 52.388 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061937.D

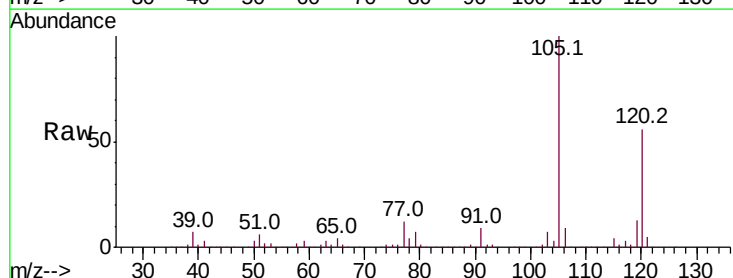
Acq: 14 Mar 2019 14:11

Tgt Ion:105 Resp: 578600

Ion Ratio Lower Upper

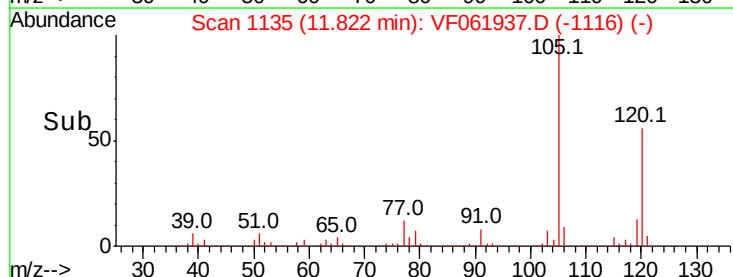
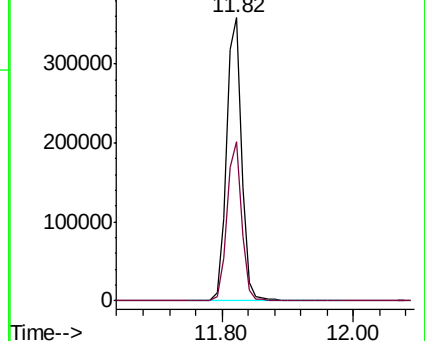
105 100

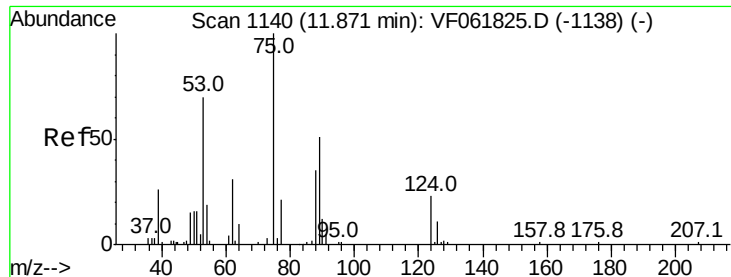
120 56.2 27.4 82.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 55.860 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

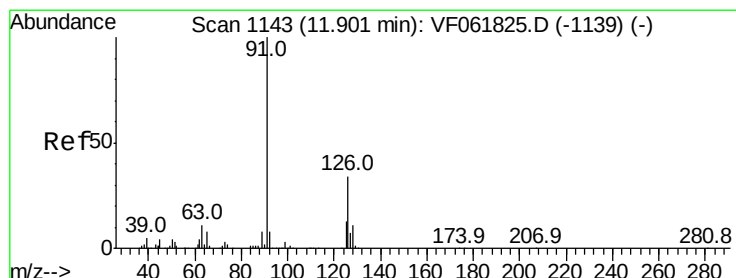
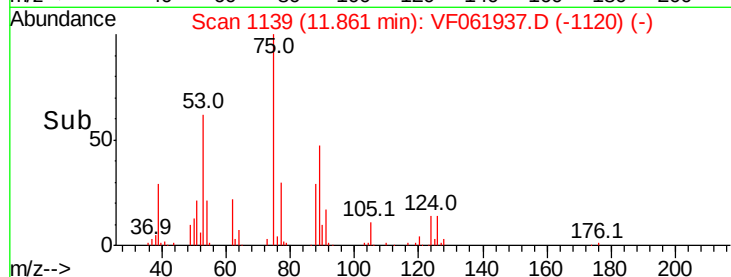
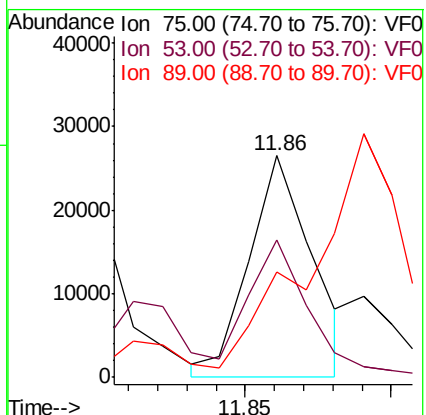
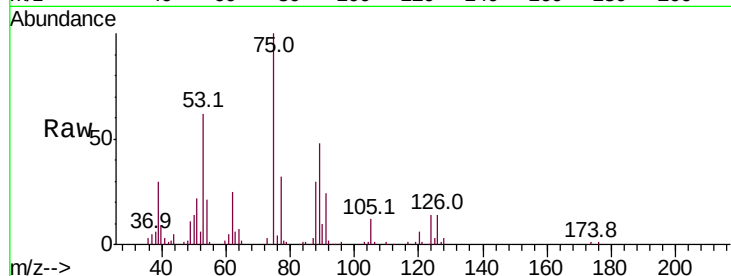
Tot Ion: 75 Resp: 39858

Ion Ratio Lower Upper

75 100

53 62.3 58.6 88.0

89 47.5 41.4 62.0



#82

4-Chlorotoluene

Concen: 50.415 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF061937.D

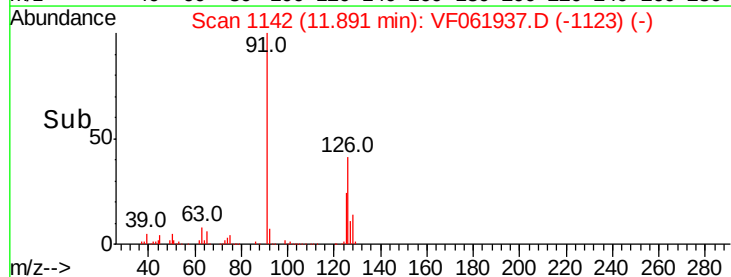
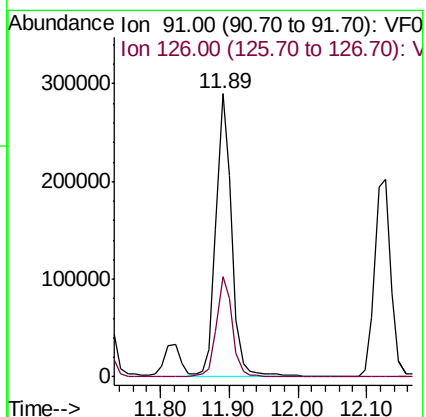
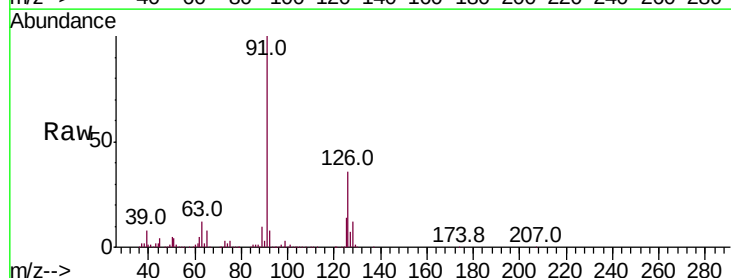
Acq: 14 Mar 2019 14:11

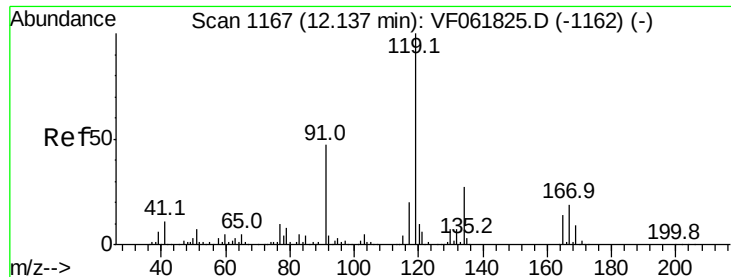
Tgt Ion: 91 Resp: 457988

Ion Ratio Lower Upper

91 100

126 35.6 17.0 50.9

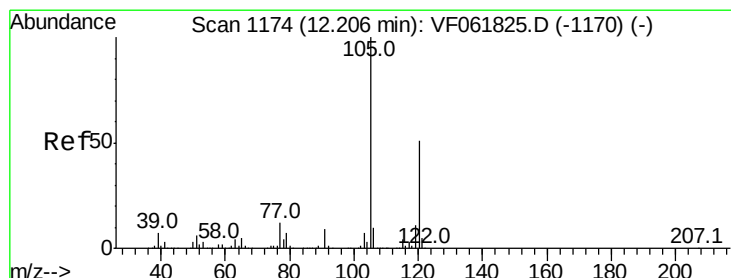
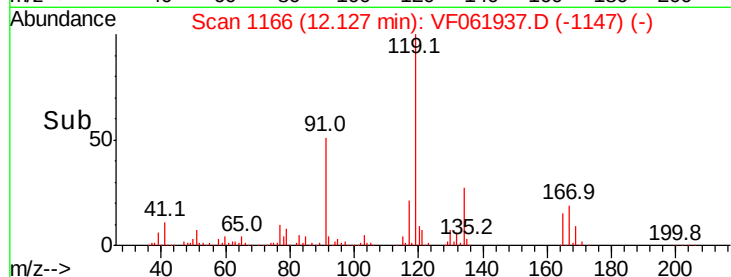
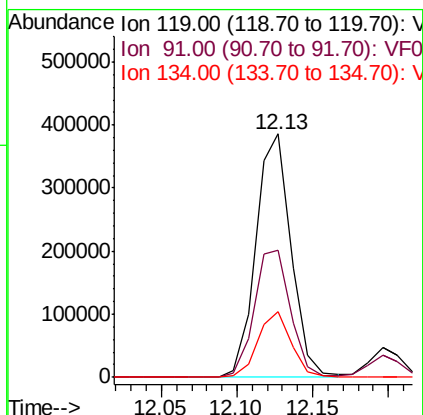
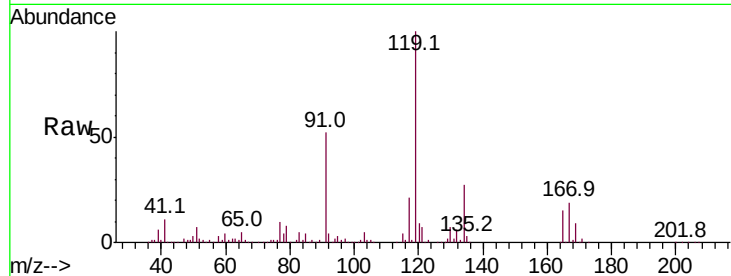




#83
 tert-Butylbenzene
 Concen: 53.435 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VF061937.D
 Acq: 14 Mar 2019 14:11

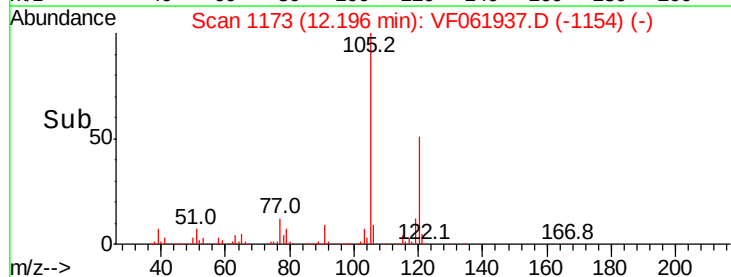
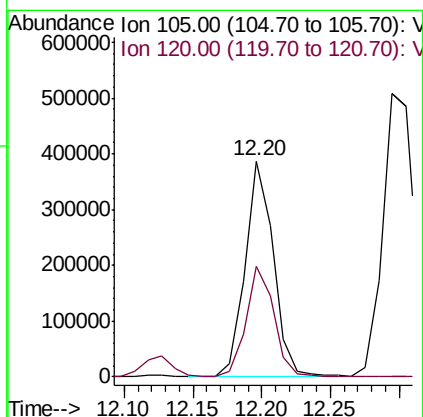
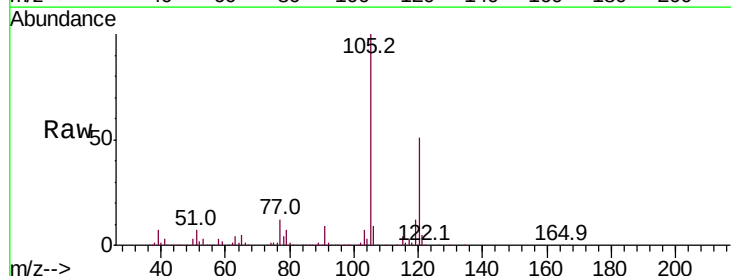
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

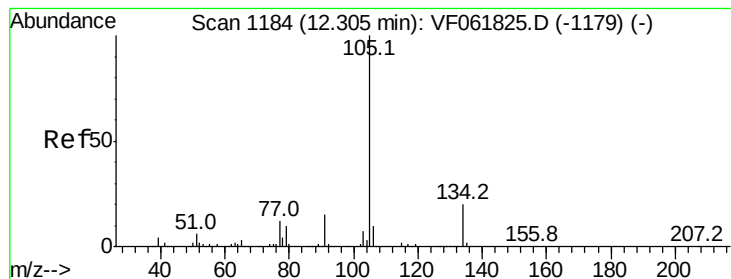
Tot Ion:119 Resp: 626661
 Ion Ratio Lower Upper
 119 100
 91 52.5 23.5 70.5
 134 26.9 13.3 39.8



#84
 1,2,4-Trimethylbenzene
 Concen: 51.305 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: VF061937.D
 Acq: 14 Mar 2019 14:11

Tgt Ion:105 Resp: 555481
 Ion Ratio Lower Upper
 105 100
 120 51.0 25.8 77.4





#85

sec-Butylbenzene

Concen: 53.900 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

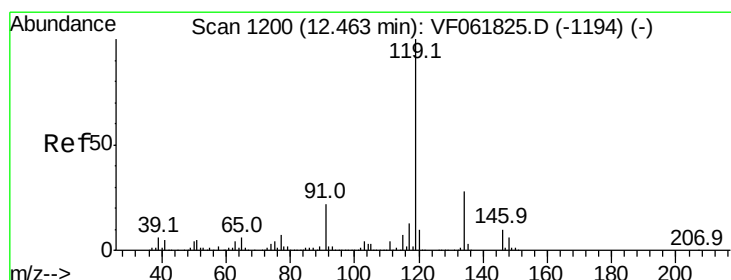
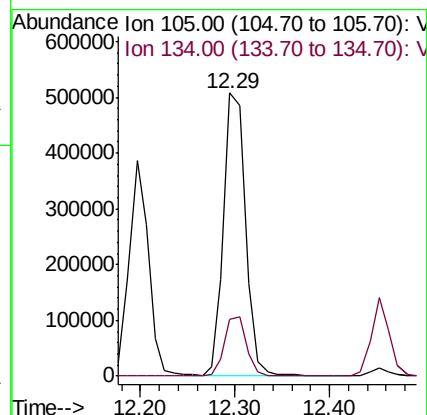
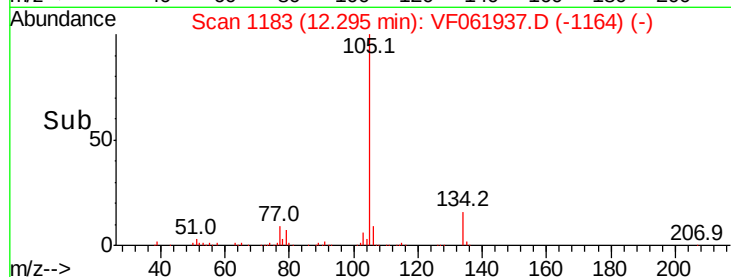
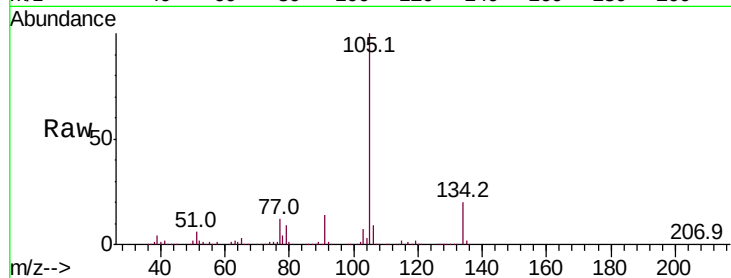
VSTDCCC050

Tot Ion:105 Resp: 822593

Ion Ratio Lower Upper

105 100

134 20.1 9.8 29.5



#86

p-Isopropyltoluene

Concen: 53.667 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

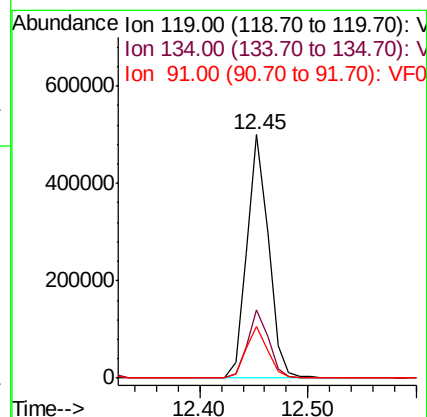
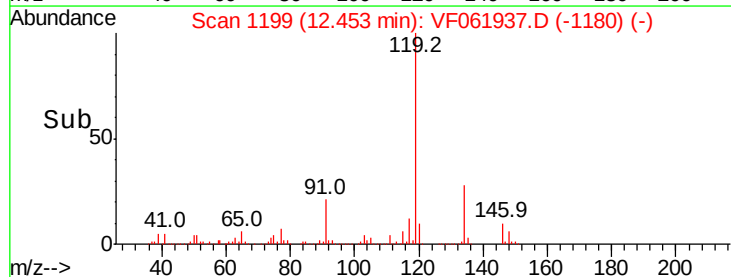
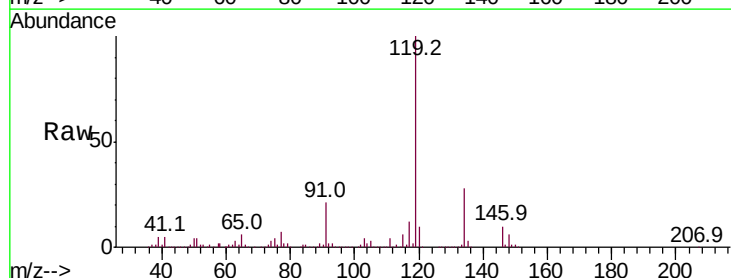
Tgt Ion:119 Resp: 696202

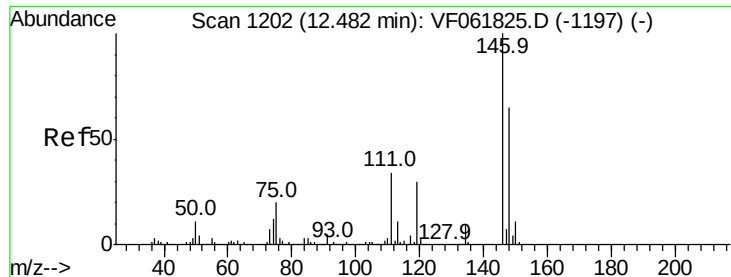
Ion Ratio Lower Upper

119 100

134 28.1 14.0 42.0

91 20.9 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 50.809 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

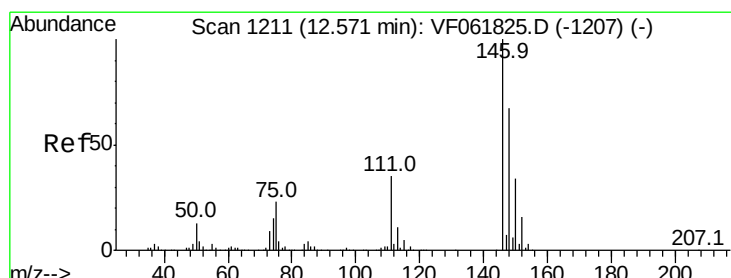
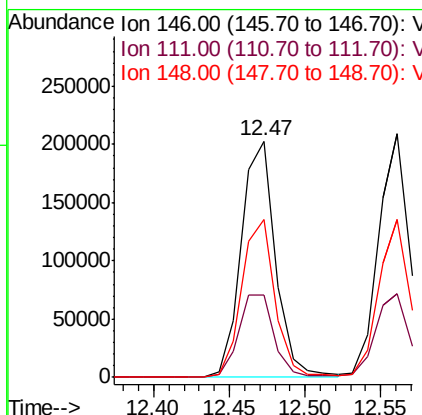
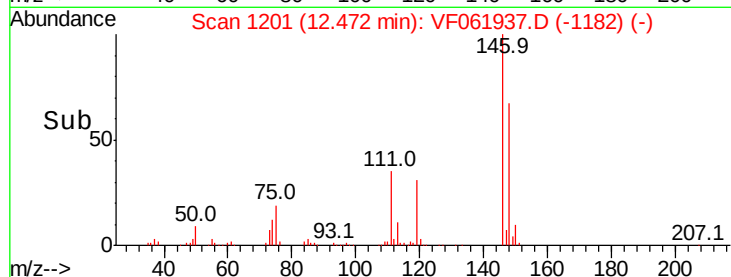
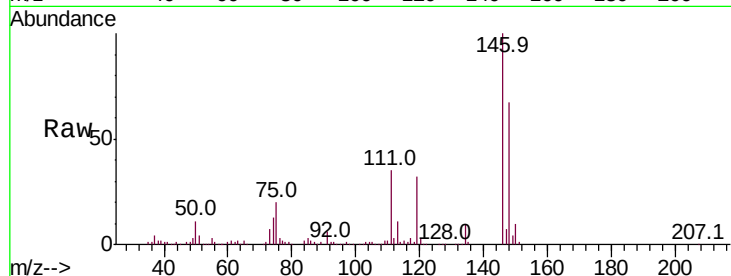
Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:146 Resp: 319402

Ion	Ratio	Lower	Upper
146	100		
111	34.6	17.0	51.0
148	66.5	32.5	97.5



#88

1,4-Dichlorobenzene

Concen: 51.572 ug/l

RT: 12.56 min Scan# 1210

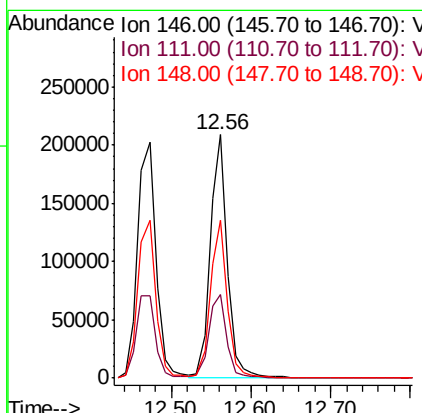
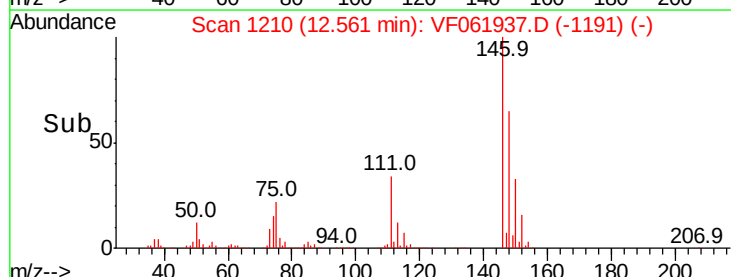
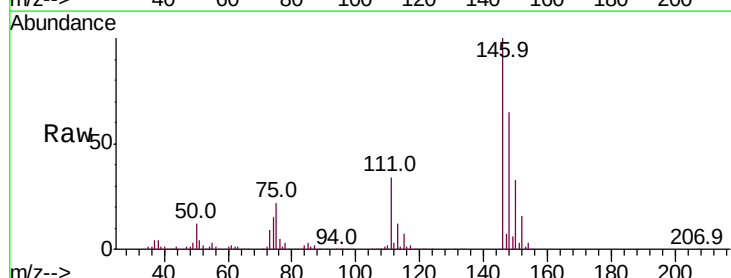
Delta R.T. -0.01 min

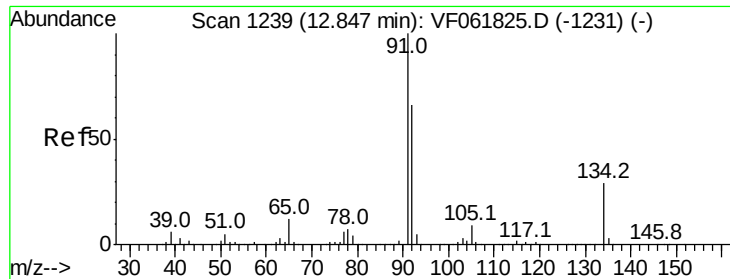
Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Tgt Ion:146 Resp: 312734

Ion	Ratio	Lower	Upper
146	100		
111	34.4	17.6	52.9
148	65.0	33.5	100.4

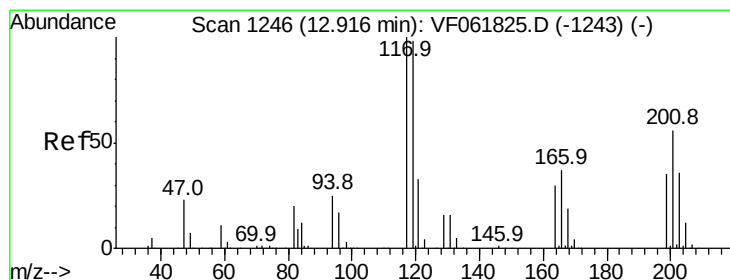
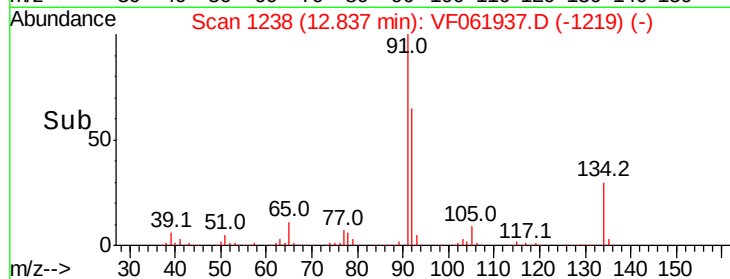
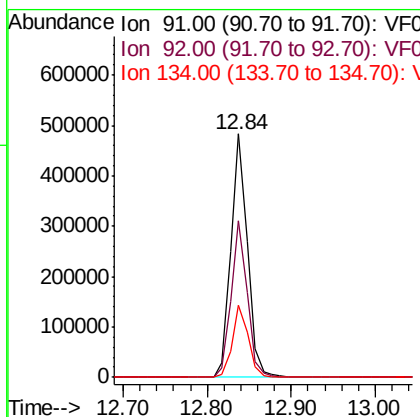
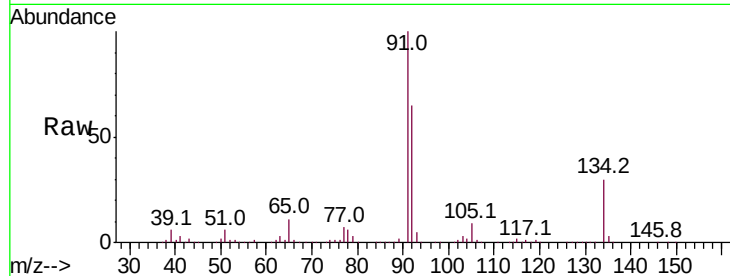




#89
n-Butylbenzene
Concen: 52.987 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

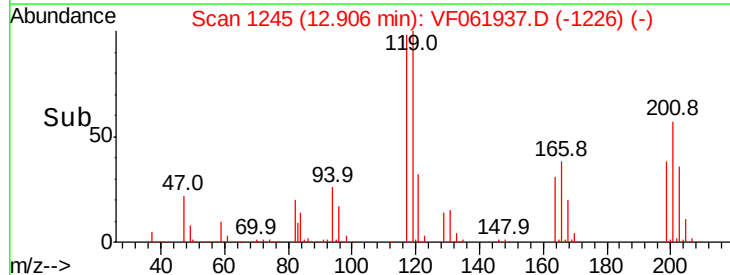
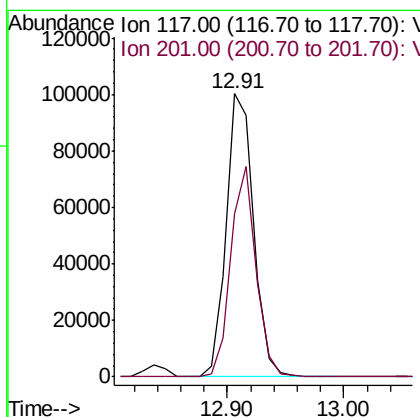
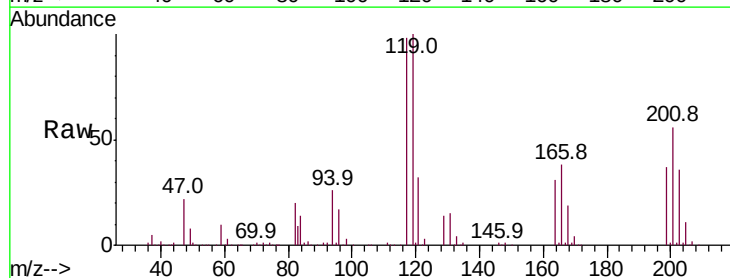
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

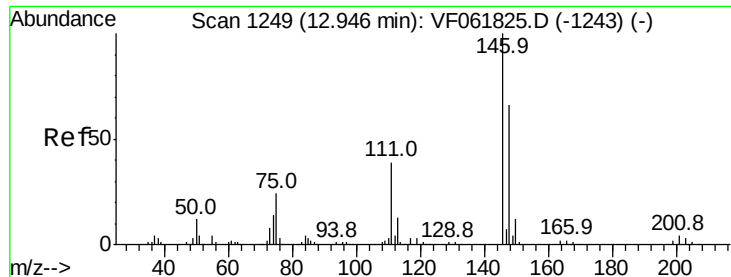
Tot Ion: 91 Resp: 656919
Ion Ratio Lower Upper
91 100
92 64.5 32.9 98.6
134 29.6 14.5 43.6



#90
Hexachloroethane
Concen: 52.020 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF061937.D
Acq: 14 Mar 2019 14:11

Tgt Ion: 117 Resp: 162432
Ion Ratio Lower Upper
117 100
201 57.5 27.8 83.4

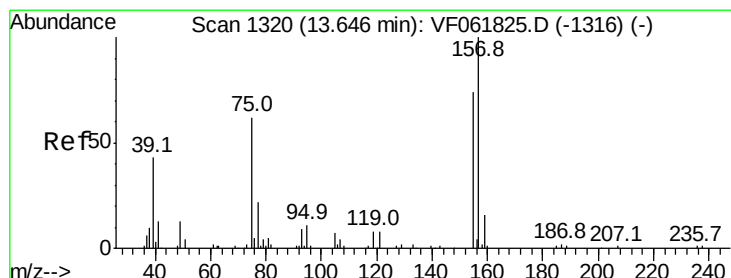
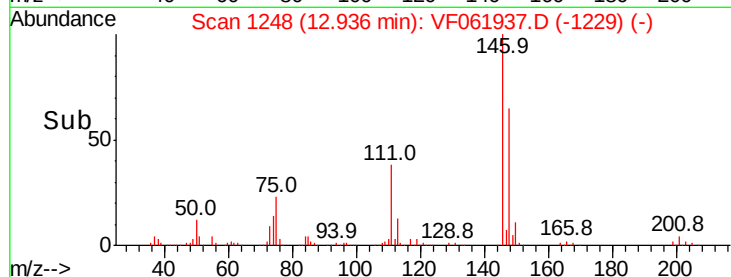
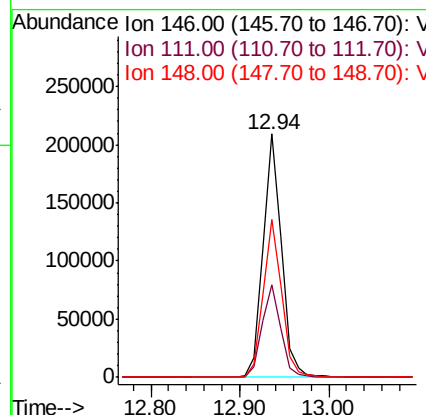
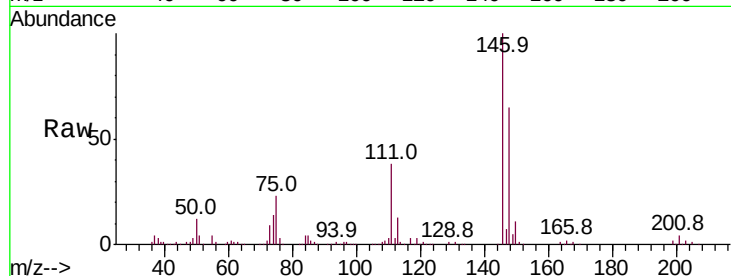




#91
 1,2-Dichlorobenzene
 Concen: 49.472 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061937.D
 Acq: 14 Mar 2019 14:11

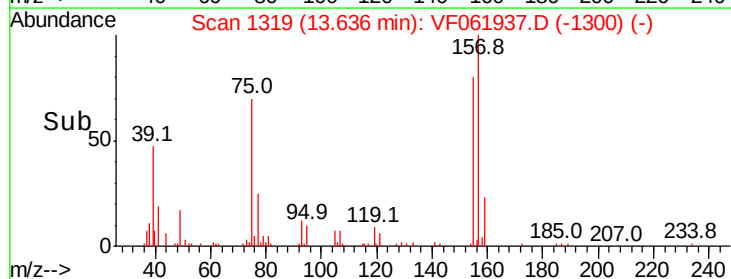
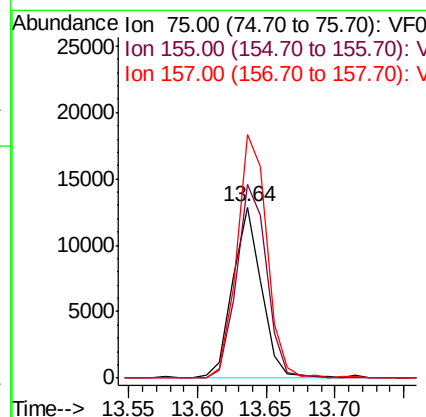
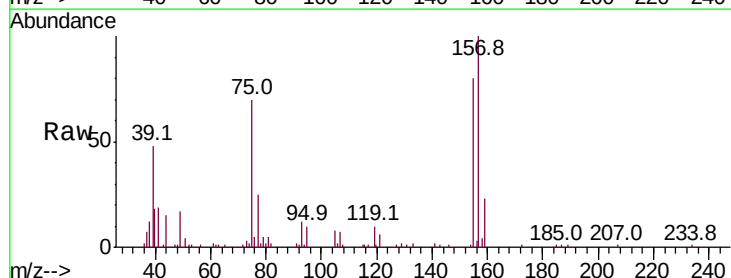
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

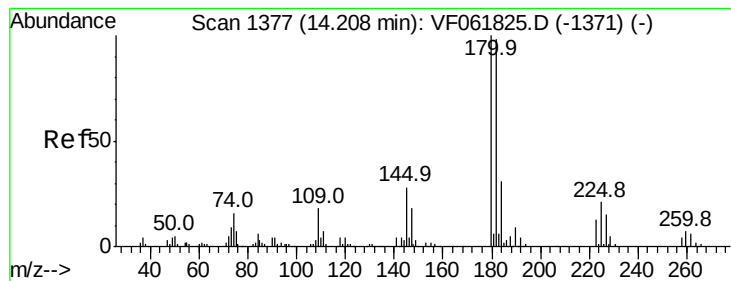
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.4	58.4
148	64.9	33.0	98.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.489 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061937.D
 Acq: 14 Mar 2019 14:11

Tgt Ion	Ratio	Lower	Upper
75	100		
155	113.3	59.8	179.4
157	142.2	81.2	243.4





#93

1,2,4-Trichlorobenzene

Concen: 49.122 ug/l

RT: 14.19 min Scan# 1375

Delta R.T. -0.02 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

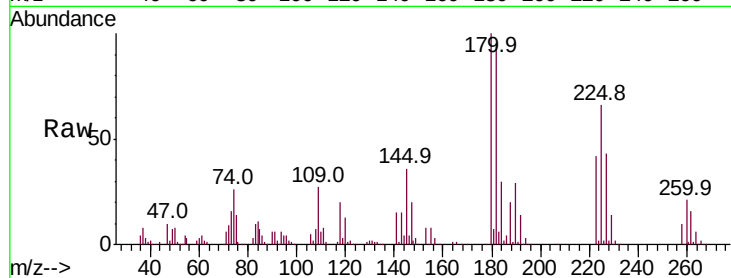
Tot Ion:180 Resp: 205109

Ion Ratio Lower Upper

180 100

182 95.0 49.0 147.2

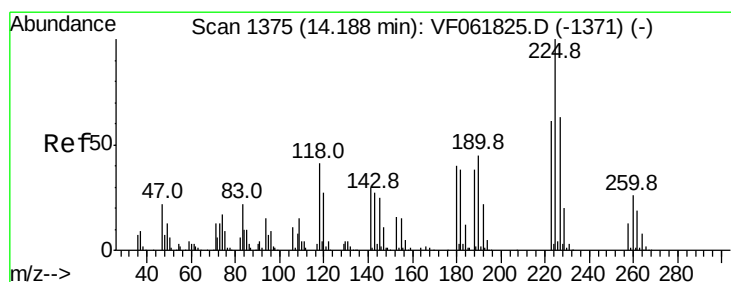
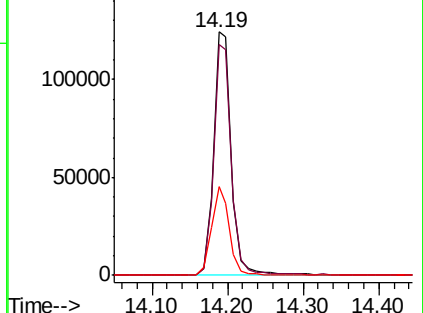
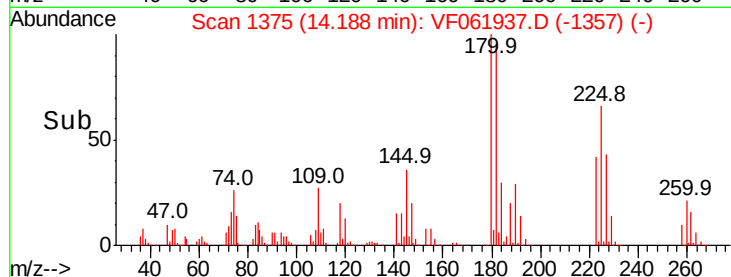
145 36.3 14.1 42.4



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: 47.022 ug/l

RT: 14.18 min Scan# 1374

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

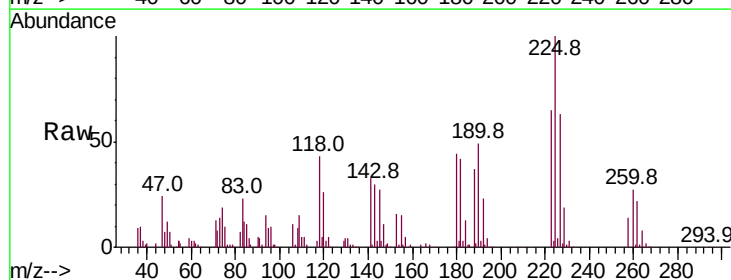
Tgt Ion:225 Resp: 135923

Ion Ratio Lower Upper

225 100

223 65.4 30.3 90.9

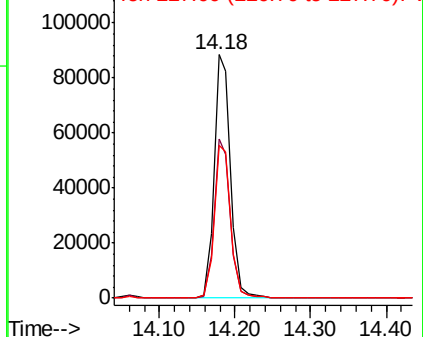
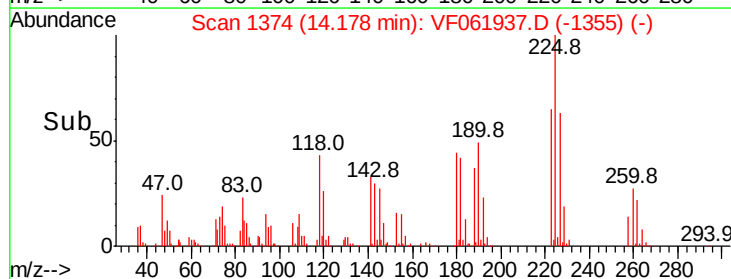
227 62.5 31.3 93.8

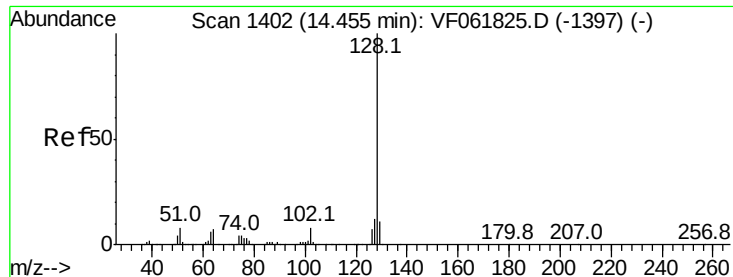


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 54.049 ug/l

RT: 14.44 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

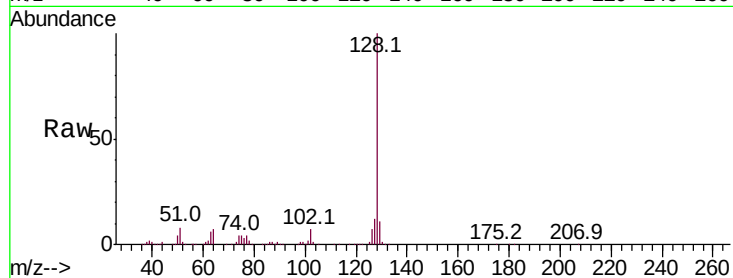
Tot Ion:128 Resp: 401957

Ion Ratio Lower Upper

128 100

127 12.1 9.3 13.9

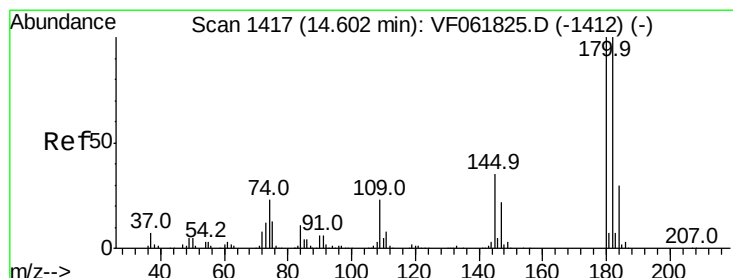
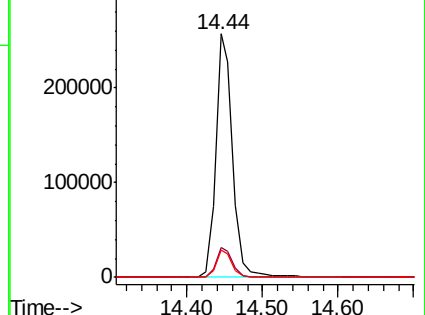
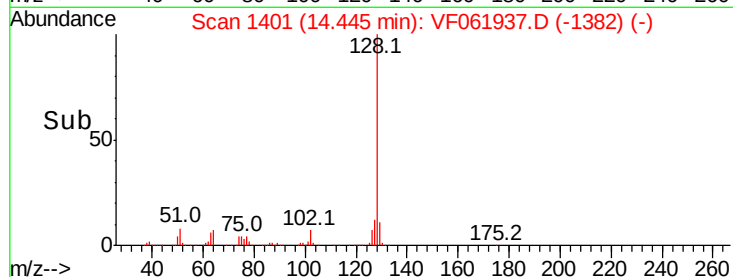
129 11.1 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 52.985 ug/l

RT: 14.59 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF061937.D

Acq: 14 Mar 2019 14:11

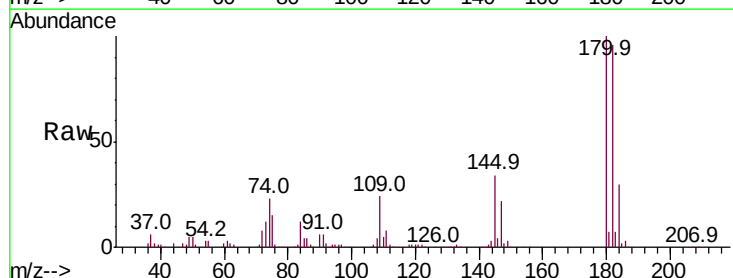
Tgt Ion:180 Resp: 204271

Ion Ratio Lower Upper

180 100

182 95.7 50.2 150.7

145 34.1 17.5 52.5



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

