

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\
 Data File : VF061957.D
 Acq On : 15 Mar 2019 13:19
 Operator : VA/AP
 Sample : VF0315SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Quant Time: Mar 15 23:15:09 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	4.88	168	285902	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	421293	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	365685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	199772	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	106670	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
35) Dibromofluoromethane	4.13	113	155150	52.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.54%	
50) Toluene-d8	7.56	98	448450	51.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.64%	
62) 4-Bromofluorobenzene	11.42	95	171537	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	76305	21.739	ug/l	91
3) Chloromethane	1.10	50	76757	22.564	ug/l	94
4) Vinyl Chloride	1.14	62	74668	23.122	ug/l	97
5) Bromomethane	1.35	94	50945	23.149	ug/l	91
6) Chloroethane	1.40	64	34699	22.605	ug/l	96
7) Trichlorofluoromethane	1.49	101	90884	23.044	ug/l	99
8) Diethyl Ether	1.63	74	19464	21.702	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	1.84	101	64091	23.930	ug/l	95
10) Methyl Iodide	1.91	142	90034	17.665	ug/l	94
11) Tert butyl alcohol	2.58	59	11524	97.515	ug/l	98
12) 1,1-Dichloroethene	1.80	96	54917	22.459	ug/l	86
13) Acrolein	2.01	56	13397	89.467	ug/l	98
14) Allyl chloride	2.11	41	76940	28.562	ug/l	94
15) Acrylonitrile	2.95	53	42492	112.919	ug/l	95
16) Acetone	2.24	43	50970	116.868	ug/l	93
17) Carbon Disulfide	1.83	76	165100	21.692	ug/l	97
18) Methyl Acetate	2.35	43	20828	23.731	ug/l	95
19) Methyl tert-butyl Ether	2.44	73	96582	23.350	ug/l	99
20) Methylene Chloride	2.19	84	20716	3.671	ug/l	96
21) trans-1,2-Dichloroethene	2.31	96	59104	25.683	ug/l	88
22) Diisopropyl ether	2.82	45	161915	23.107	ug/l	97
23) Vinyl Acetate	3.20	43	367043	117.254	ug/l	100
24) 1,1-Dichloroethane	2.89	63	106948	25.535	ug/l	99
25) 2-Butanone	4.35	43	102994	116.097	ug/l	98
26) 2,2-Dichloropropane	3.62	77	44270	23.678	ug/l	90
27) cis-1,2-Dichloroethene	3.49	96	74557	23.385	ug/l	97
28) Bromochloromethane	3.73	49	41856	22.926	ug/l #	100
29) Tetrahydrofuran	4.09	42	42417	110.867	ug/l	100
30) Chloroform	3.87	83	105204	21.991	ug/l	97
31) Cyclohexane	3.69	56	98537	22.462	ug/l	97
32) 1,1,1-Trichloroethane	4.11	97	69853	23.689	ug/l #	93
36) 1,1-Dichloropropene	4.30	75	91360	22.957	ug/l	96
37) Ethyl Acetate	4.12	43	36169	21.653	ug/l #	87
38) Carbon Tetrachloride	4.00	117	69372	24.625	ug/l	92

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	109926	23.386	ug/l	97
40) Benzene	4.65	78	238849	22.961	ug/l	97
41) Methacrylonitrile	4.77	41	21499	23.492	ug/l #	86
42) 1,2-Dichloroethane	4.96	62	57374	22.132	ug/l	99
43) Isopropyl Acetate	6.97	43	45596	22.145	ug/l #	99
44) Trichloroethene	5.52	130	73076	22.605	ug/l	97
45) 1,2-Dichloropropane	6.25	63	56843	22.980	ug/l	97
46) Dibromomethane	6.10	93	34409	22.103	ug/l	88
47) Bromodichloromethane	6.40	83	74968	21.798	ug/l	100
48) Methyl methacrylate	6.73	41	29979	23.006	ug/l	99
49) 1,4-Dioxane	6.72	88	4518	379.276	ug/l #	28
51) 4-Methyl-2-Pentanone	8.27	43	161912	113.778	ug/l	98
52) Toluene	7.64	92	144935	23.553	ug/l	100
53) t-1,3-Dichloropropene	8.29	75	64713	22.795	ug/l	95
54) cis-1,3-Dichloropropene	7.31	75	85989	21.959	ug/l	98
55) 1,1,2-Trichloroethane	8.51	97	41005	23.127	ug/l	95
56) Ethyl methacrylate	8.63	69	43113	21.576	ug/l	93
57) 1,3-Dichloropropane	8.86	76	65482	22.583	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.30	63	38503	121.808	ug/l	99
59) 2-Hexanone	9.50	43	117860	114.805	ug/l	100
60) Dibromochloromethane	8.72	129	56264	22.265	ug/l	94
61) 1,2-Dibromoethane	9.00	107	42712	21.906	ug/l	99
64) Tetrachloroethene	8.16	164	63997	22.776	ug/l	92
65) Chlorobenzene	9.81	112	154894	22.047	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	59195	21.747	ug/l	96
67) Ethyl Benzene	9.91	91	263416	22.621	ug/l	95
68) m/p-Xylenes	10.14	106	204987	45.952	ug/l	98
69) o-Xylene	10.72	106	108781	22.646	ug/l	98
70) Styrene	10.79	104	151446	22.403	ug/l	96
71) Bromoform	10.78	173	30568	21.248	ug/l #	90
73) Isopropylbenzene	11.13	105	308151	22.406	ug/l	96
74) N-amyl acetate	11.38	43	71745	22.660	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.70	83	49873	21.818	ug/l	98
76) 1,2,3-Trichloropropane	11.80	75	36778	23.574	ug/l	96
77) Bromobenzene	11.50	156	71999	21.752	ug/l	90
78) n-propylbenzene	11.60	91	364698	23.481	ug/l	97
79) 2-Chlorotoluene	11.73	91	202988	22.860	ug/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	252369	22.855	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.88	75	20746	29.081	ug/l	97
82) 4-Chlorotoluene	11.91	91	201605	22.197	ug/l	97
83) tert-Butylbenzene	12.13	119	277136	23.636	ug/l	91
84) 1,2,4-Trimethylbenzene	12.21	105	250757	23.165	ug/l	100
85) sec-Butylbenzene	12.31	105	352971	23.133	ug/l	99
86) p-Isopropyltoluene	12.47	119	295247	22.764	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	146794	23.356	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	136856	22.574	ug/l	95
89) n-Butylbenzene	12.85	91	298890	24.114	ug/l	95
90) Hexachloroethane	12.92	117	68235	21.857	ug/l	83
91) 1,2-Dichlorobenzene	12.94	146	131580	22.097	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7007	20.090	ug/l	71

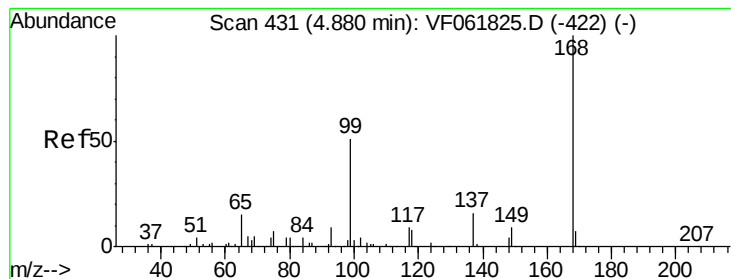
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031519\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	92383	22.130	ug/l	97
94) Hexachlorobutadiene	14.20	225	60247	20.847	ug/l	97
95) Naphthalene	14.46	128	158232	21.281	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	80474	20.878	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

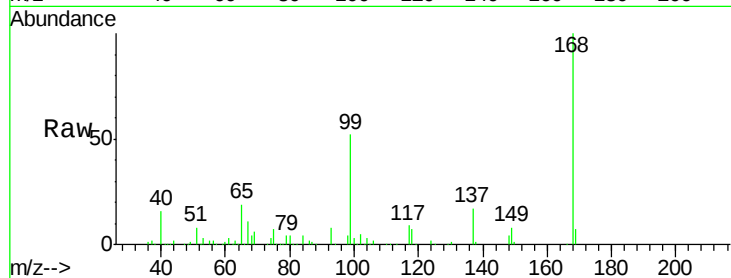
VF0315SBS01

Tot Ion:168 Resp: 285902

Ion Ratio Lower Upper

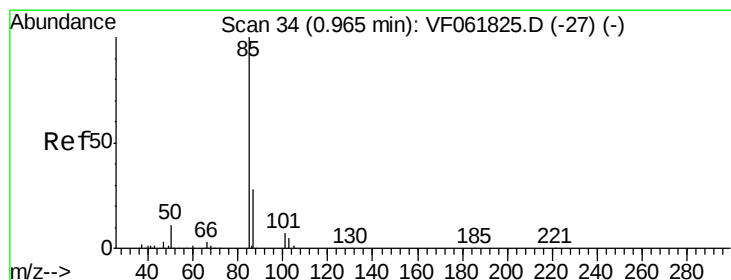
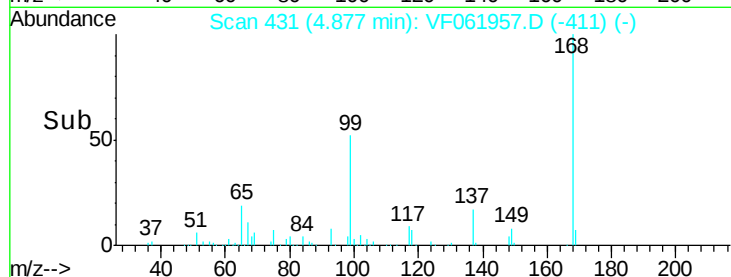
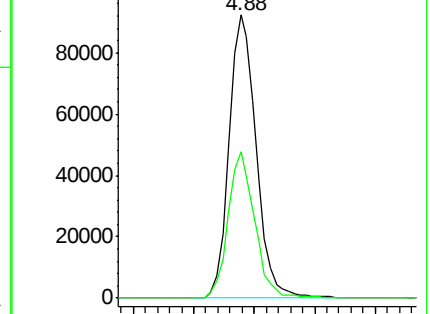
168 100

99 51.8 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 21.739 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061957.D

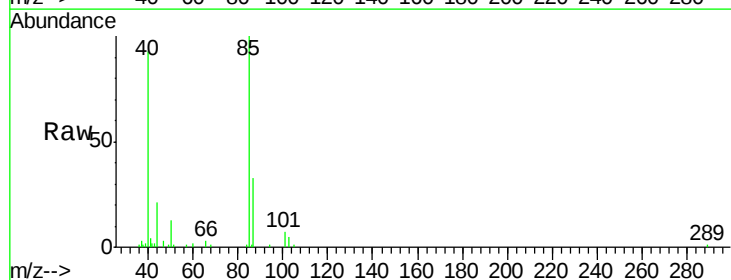
Acq: 15 Mar 2019 13:19

Tgt Ion: 85 Resp: 76305

Ion Ratio Lower Upper

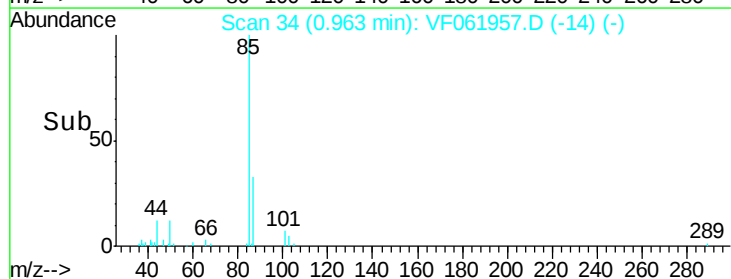
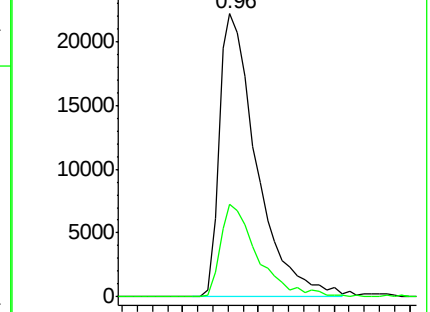
85 100

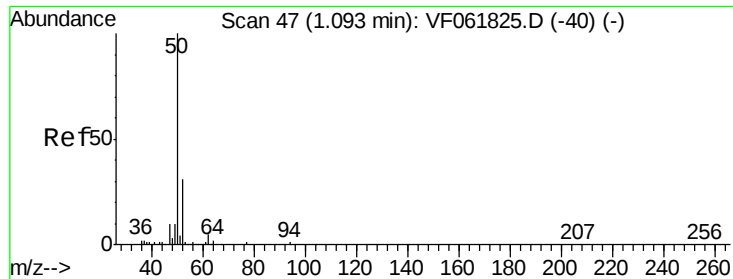
87 32.9 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 22.564 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

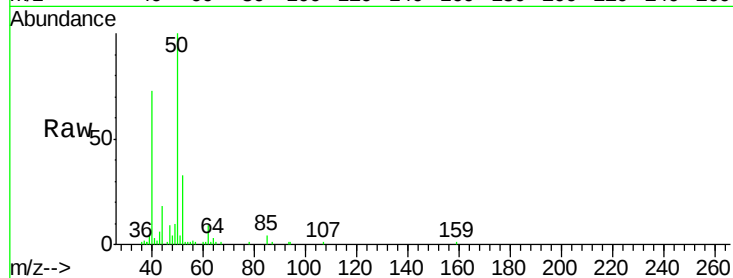
VF0315SBSD01

Tot Ion: 50 Resp: 76757

Ion Ratio Lower Upper

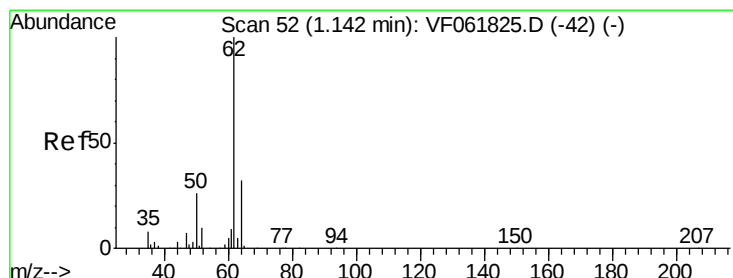
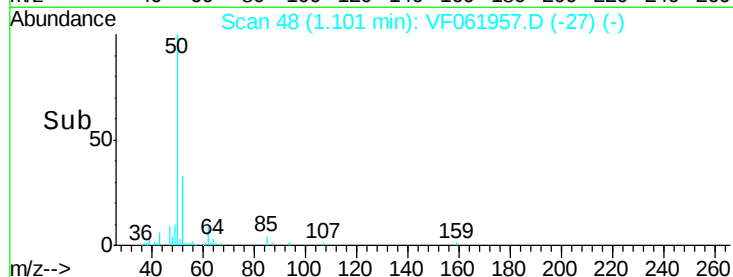
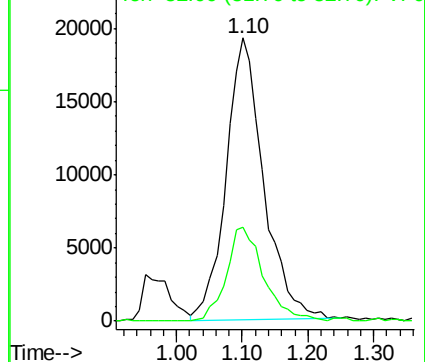
50 100

52 33.0 23.8 35.8



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 23.122 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061957.D

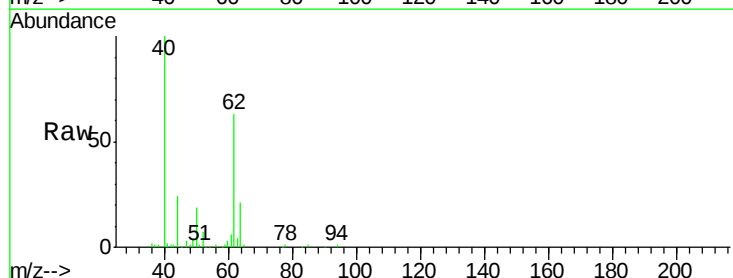
Acq: 15 Mar 2019 13:19

Tgt Ion: 62 Resp: 74668

Ion Ratio Lower Upper

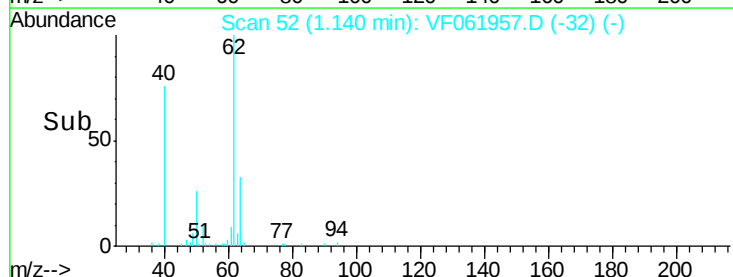
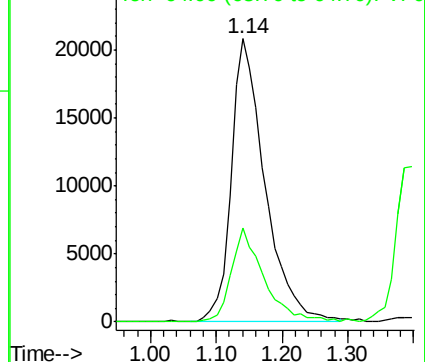
62 100

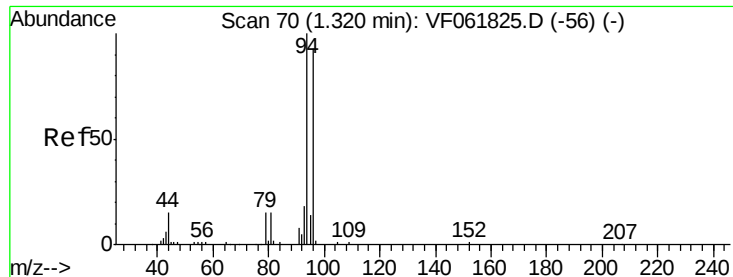
64 33.2 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 23.149 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.03 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

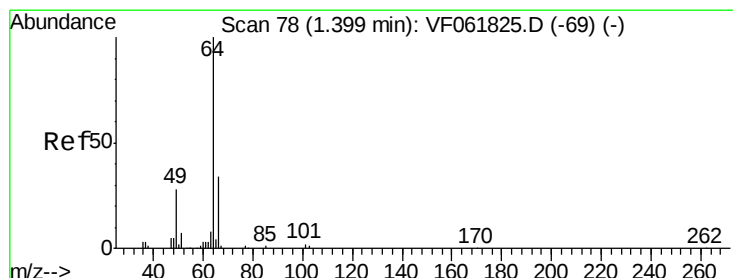
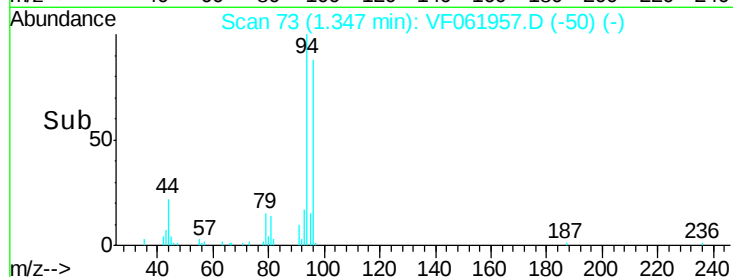
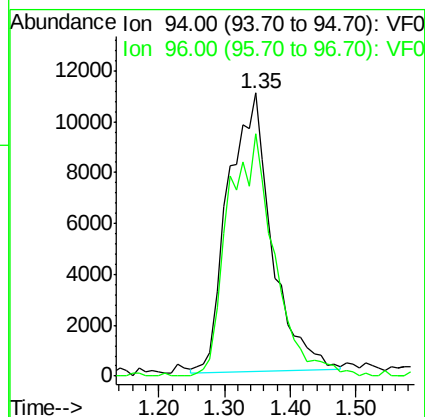
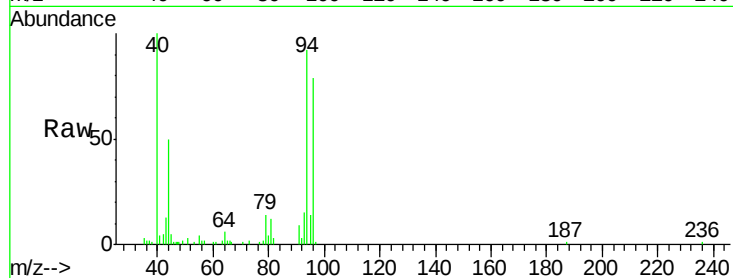
VF0315SBS01

Tot Ion: 94 Resp: 50945

Ion Ratio Lower Upper

94 100

96 85.8 75.2 112.8



#6

Chloroethane

Concen: 22.605 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061957.D

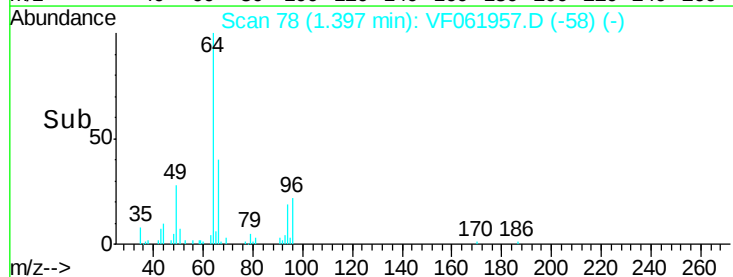
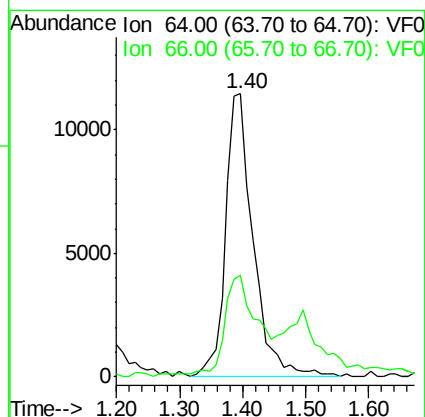
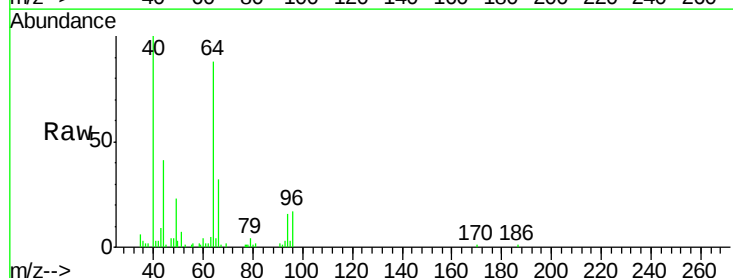
Acq: 15 Mar 2019 13:19

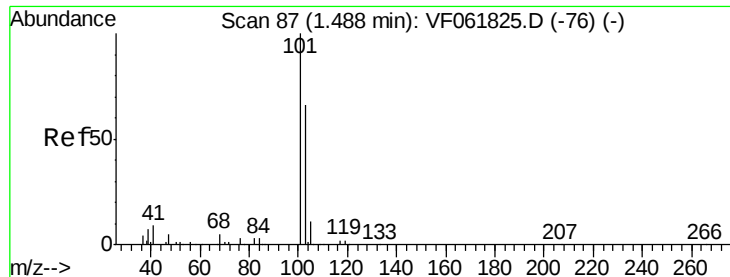
Tgt Ion: 64 Resp: 34699

Ion Ratio Lower Upper

64 100

66 36.0 27.0 40.4



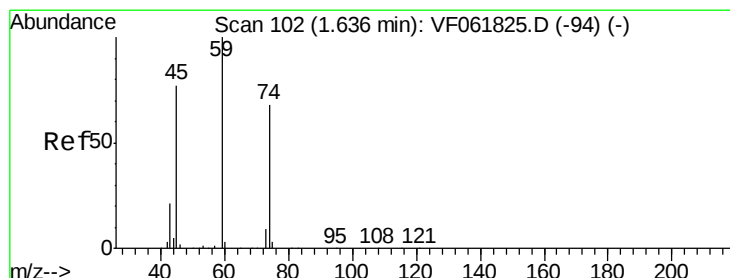
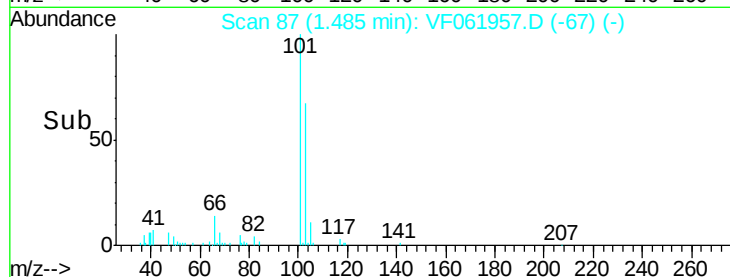
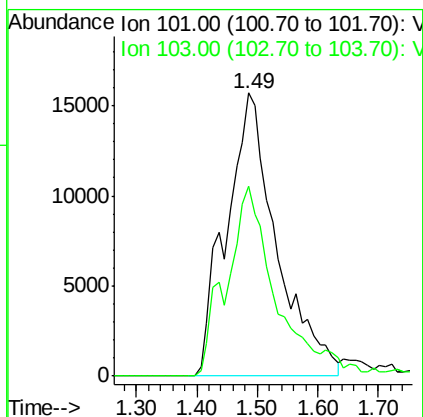
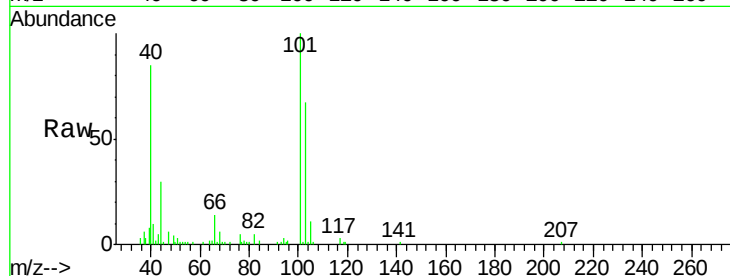


#7

Trichlorofluoromethane
 Concen: 23.044 ug/l
 RT: 1.49 min Scan# 87
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

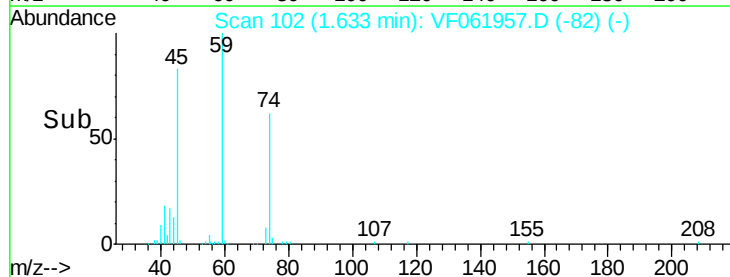
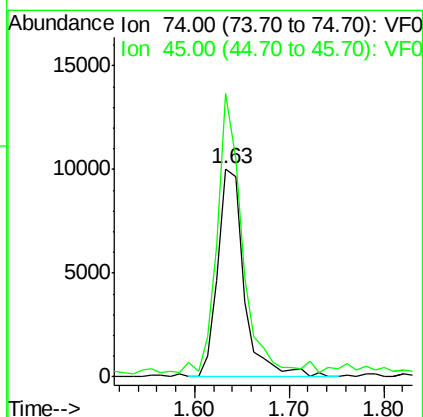
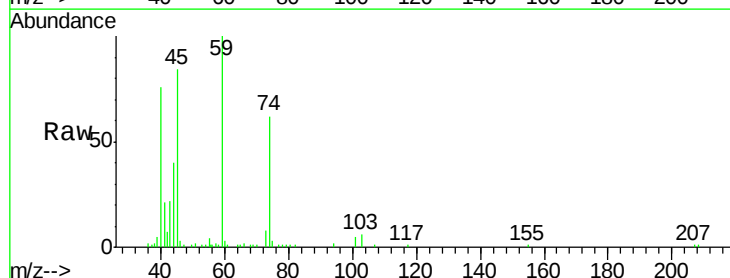
Tot Ion:101 Resp: 90884
 Ion Ratio Lower Upper
 101 100
 103 67.1 52.8 79.2

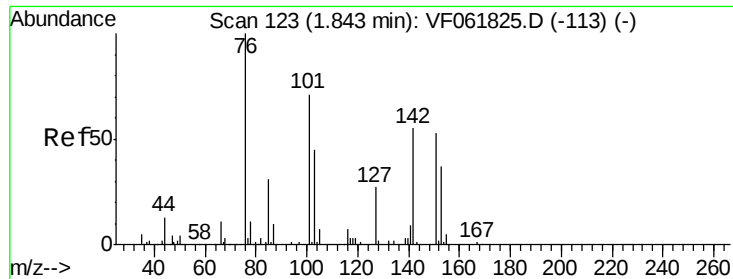


#8

Diethyl Ether
 Concen: 21.702 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion: 74 Resp: 19464
 Ion Ratio Lower Upper
 74 100
 45 136.1 57.2 171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.930 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

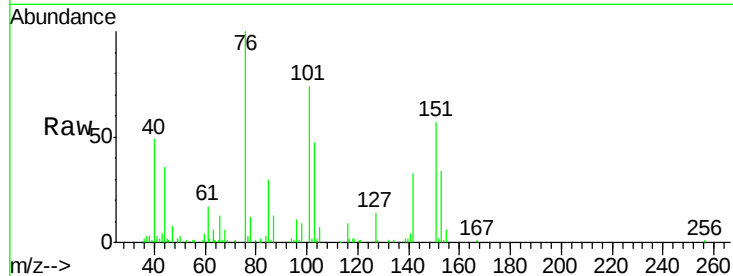
Tot Ion:101 Resp: 64091

Ion Ratio Lower Upper

101 100

85 40.5 34.0 51.0

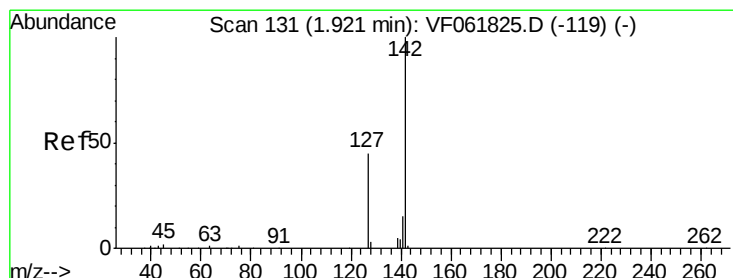
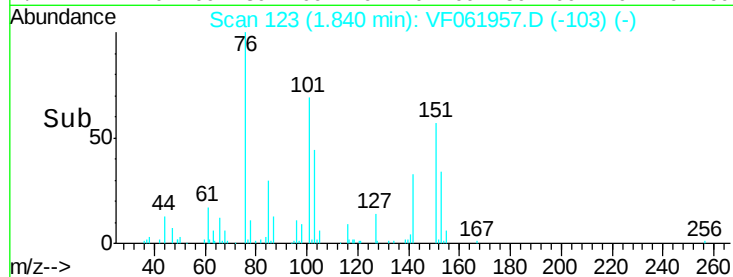
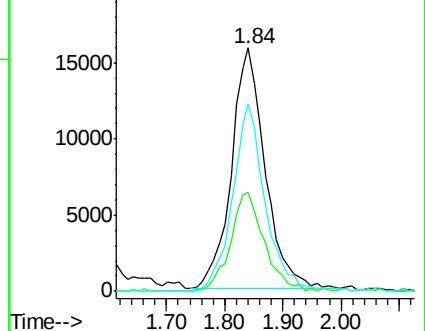
151 77.0 57.3 85.9



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: 17.665 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

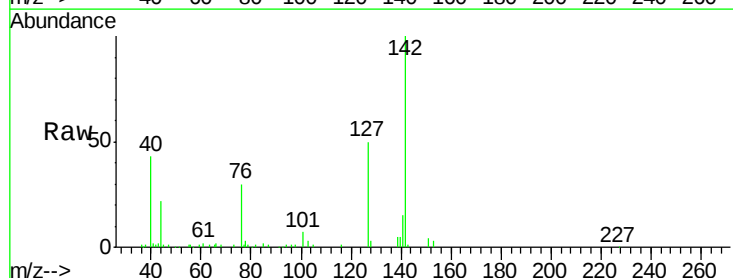
Tgt Ion:142 Resp: 90034

Ion Ratio Lower Upper

142 100

127 49.6 35.8 53.6

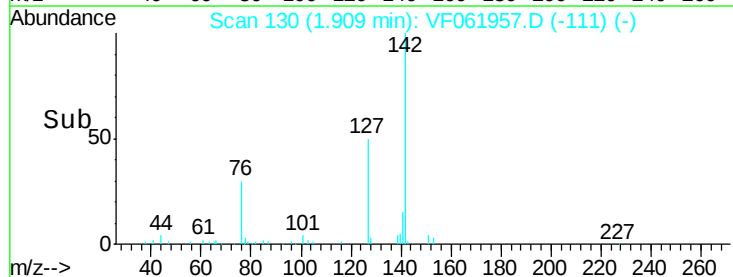
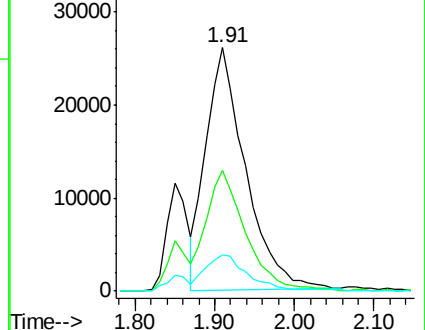
141 15.1 11.7 17.5

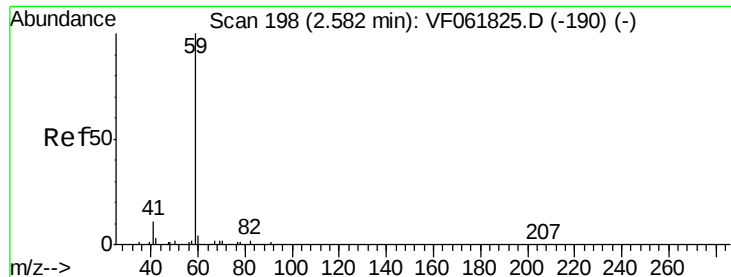


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



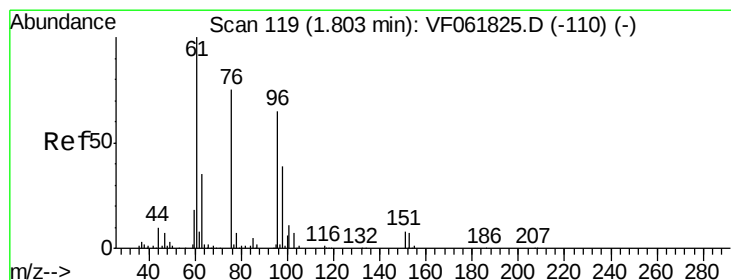
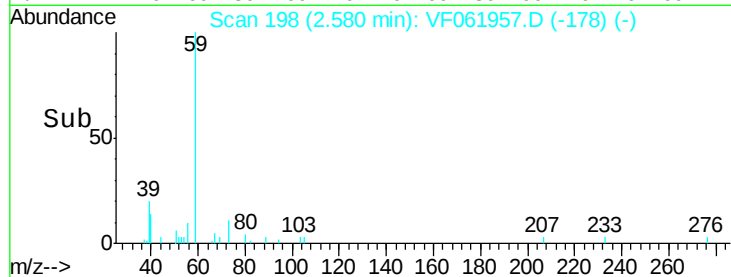
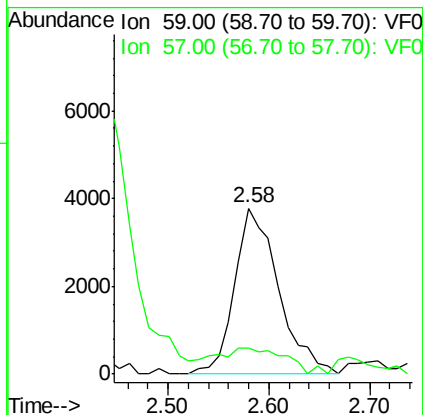
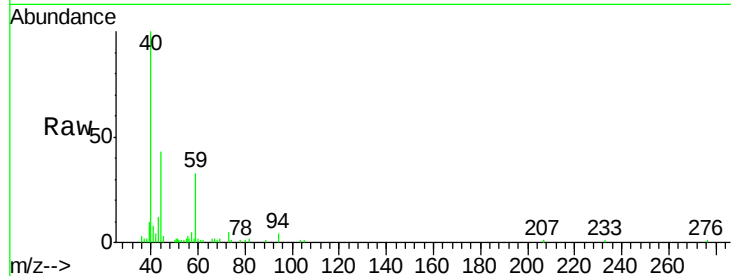


#11

Tert butyl alcohol
 Concen: 97.515 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

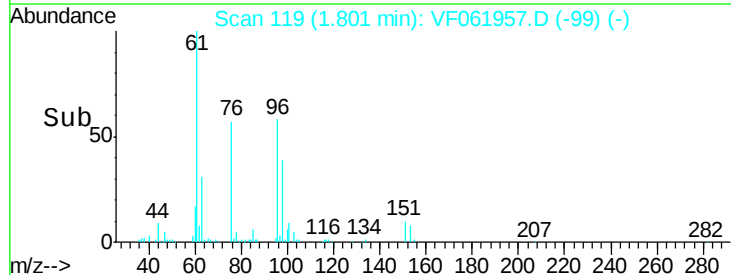
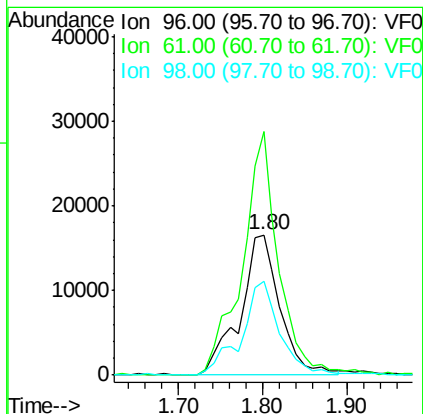
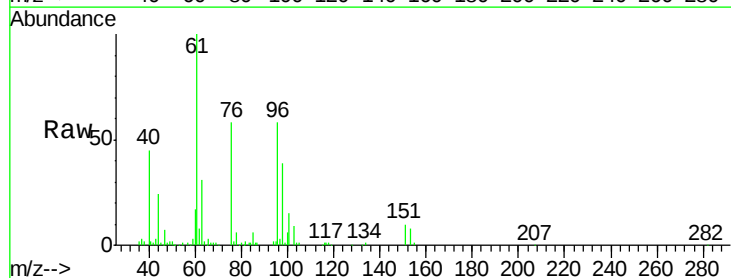
Tot Ion: 59 Resp: 11524
 Ion Ratio Lower Upper
 59 100
 57 15.7 11.8 17.6

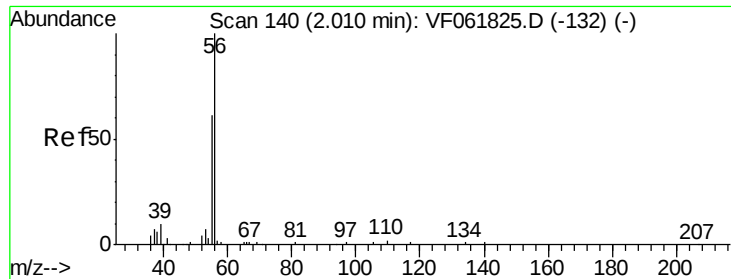


#12

1,1-Dichloroethene
 Concen: 22.459 ug/l
 RT: 1.80 min Scan# 119
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion: 96 Resp: 54917
 Ion Ratio Lower Upper
 96 100
 61 173.3 122.5 183.7
 98 67.1 47.1 70.7





#13

Acrolein

Concen: 89.467 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

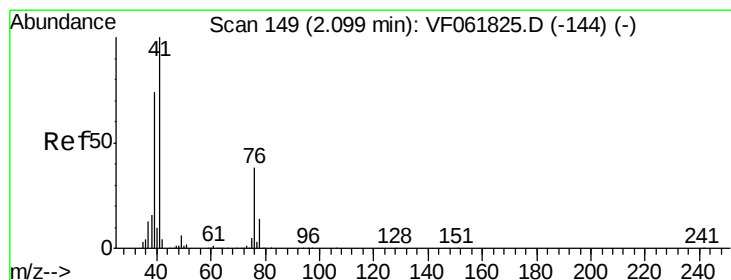
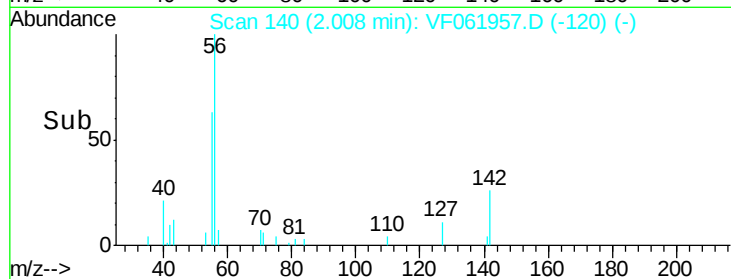
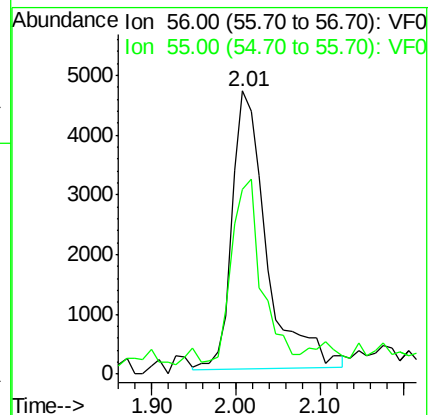
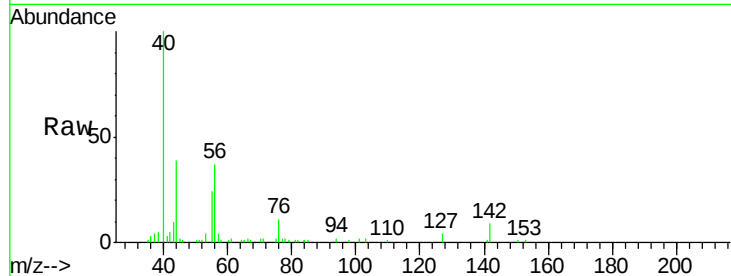
VF0315SBSD01

Tot Ion: 56 Resp: 13397

Ion Ratio Lower Upper

56 100

55 65.3 51.3 76.9



#14

Allyl chloride

Concen: 28.562 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

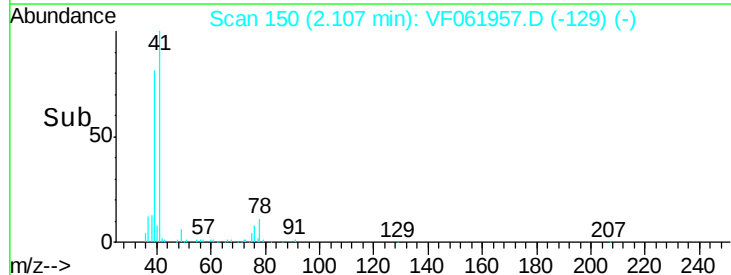
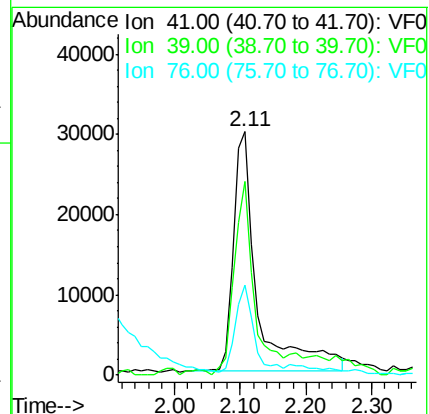
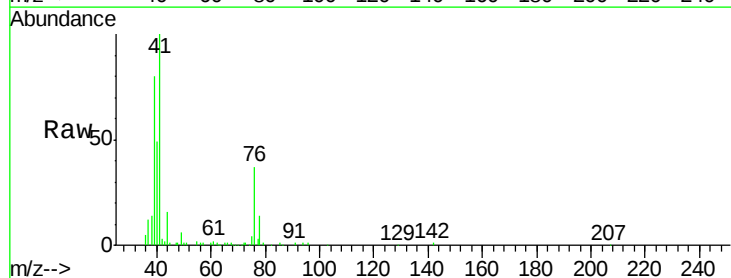
Tgt Ion: 41 Resp: 76940

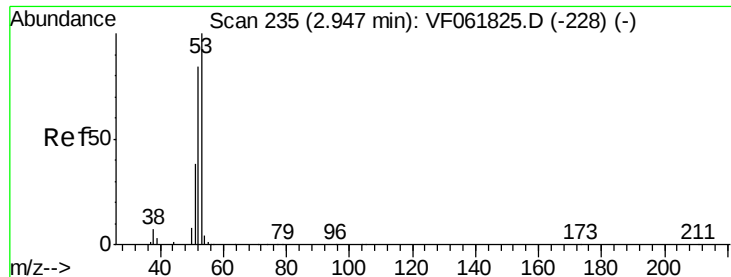
Ion Ratio Lower Upper

41 100

39 79.8 59.6 89.4

76 36.9 32.3 48.5





#15

Acrylonitrile

Concen: 112.919 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

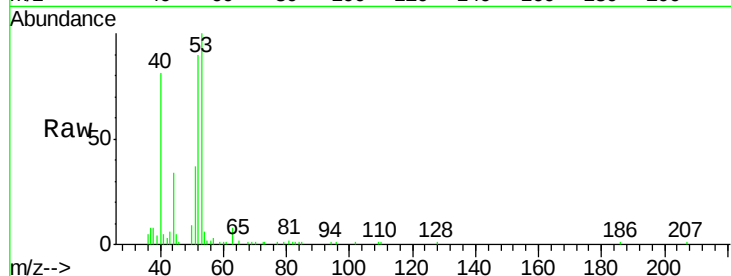
Tot Ion: 53 Resp: 42492

Ion Ratio Lower Upper

53 100

52 89.7 67.4 101.0

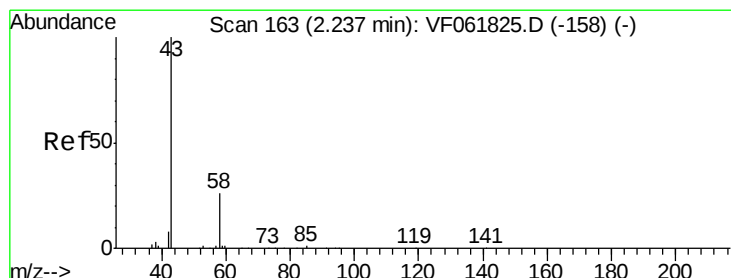
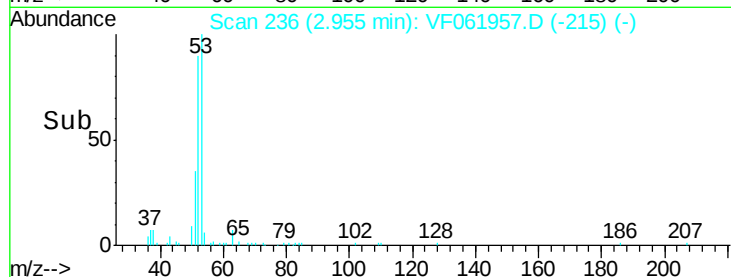
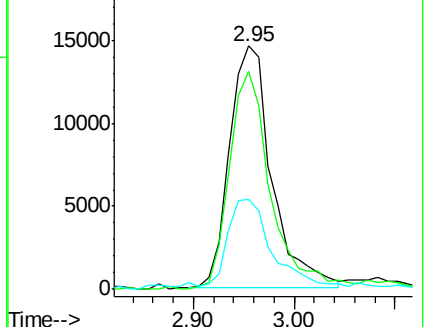
51 36.9 30.7 46.1



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: 116.868 ug/l

RT: 2.24 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061957.D

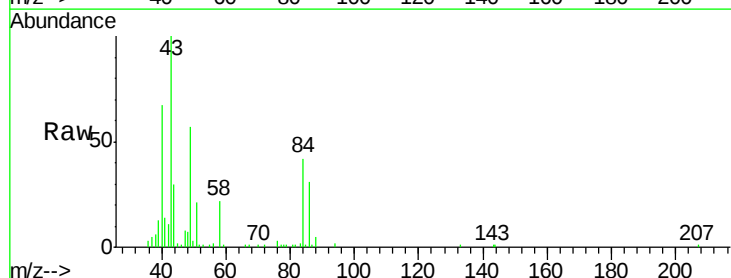
Acq: 15 Mar 2019 13:19

Tgt Ion: 43 Resp: 50970

Ion Ratio Lower Upper

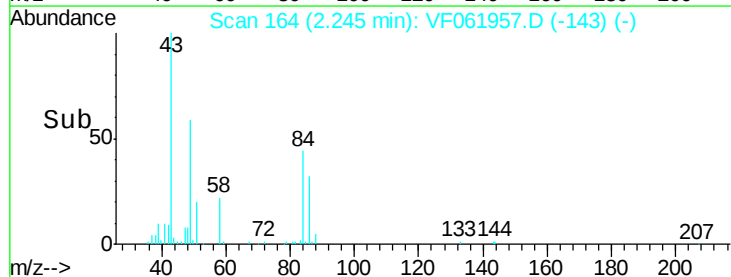
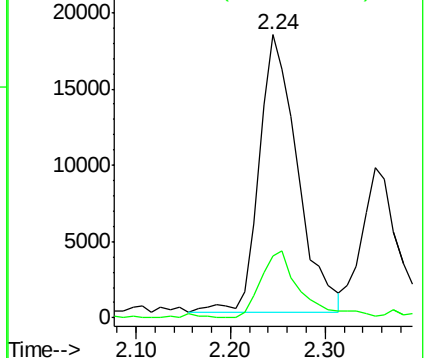
43 100

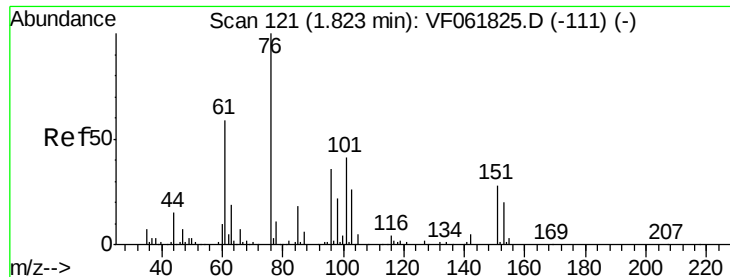
58 22.0 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

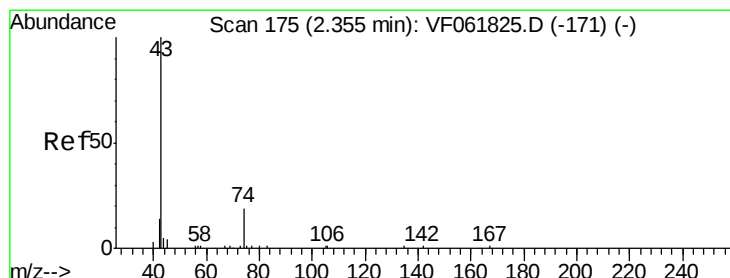
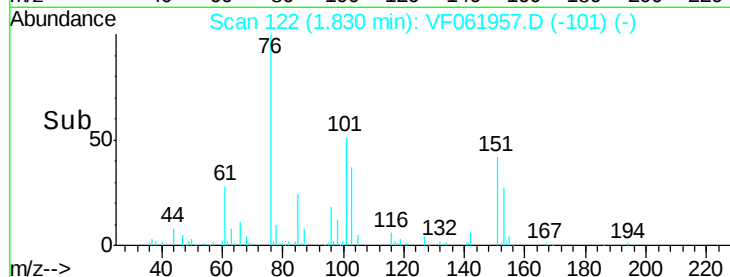
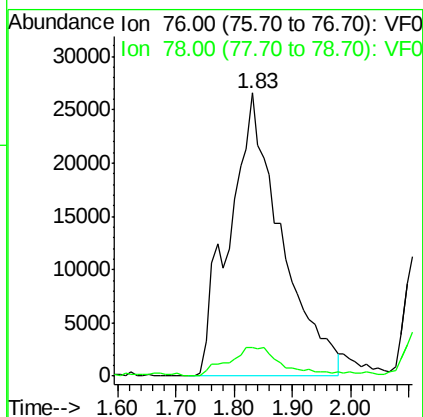
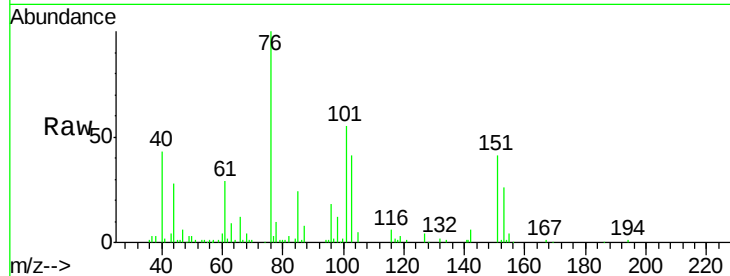




#17
Carbon Disulfide
Concen: 21.692 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

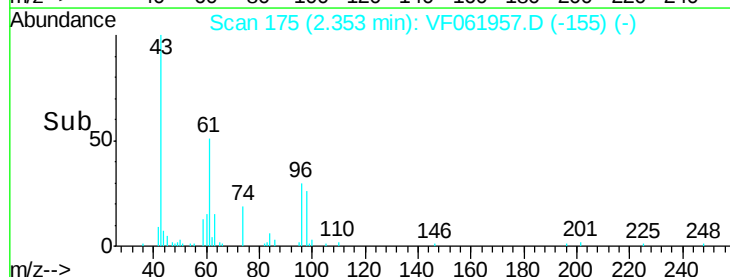
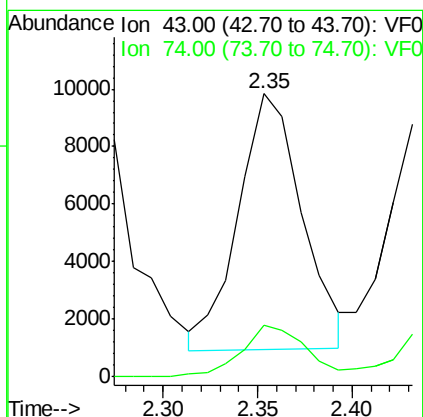
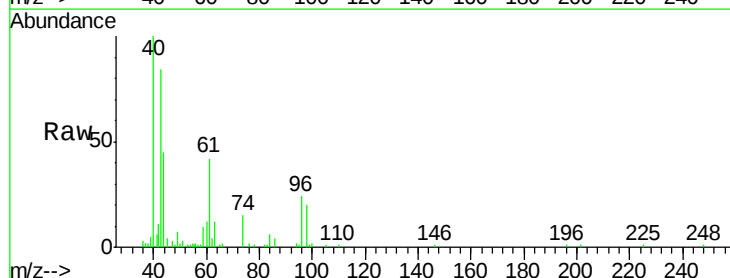
Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

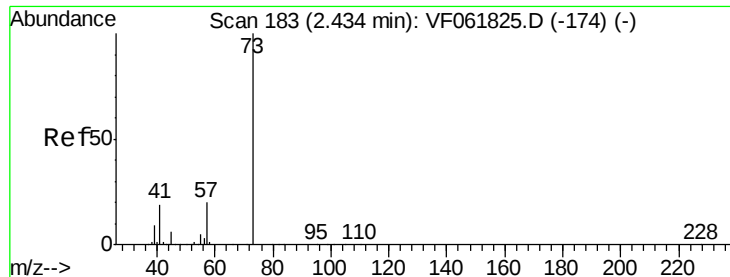
Tot Ion: 76 Resp: 165100
Ion Ratio Lower Upper
76 100
78 10.2 9.1 13.7



#18
Methyl Acetate
Concen: 23.731 ug/l
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion: 43 Resp: 20828
Ion Ratio Lower Upper
43 100
74 18.4 13.2 19.8

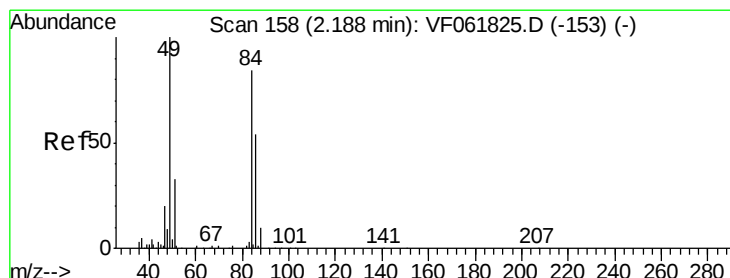
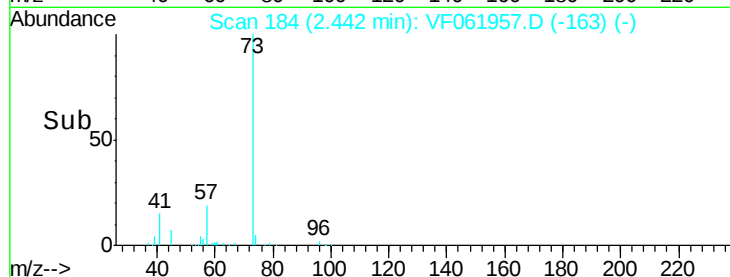
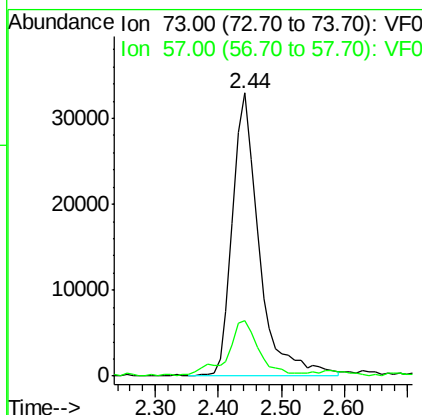
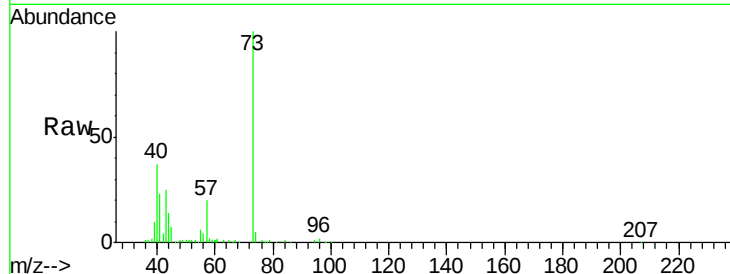




#19
Methvl tert-butvl Ether
Concen: 23.350 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

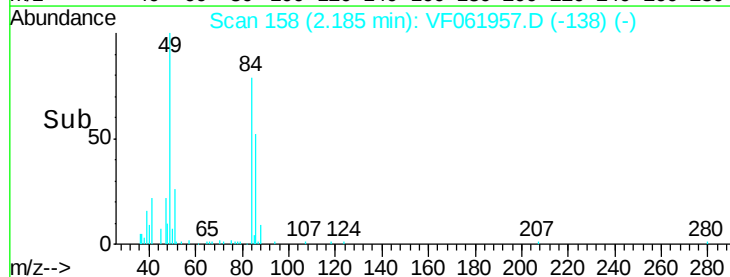
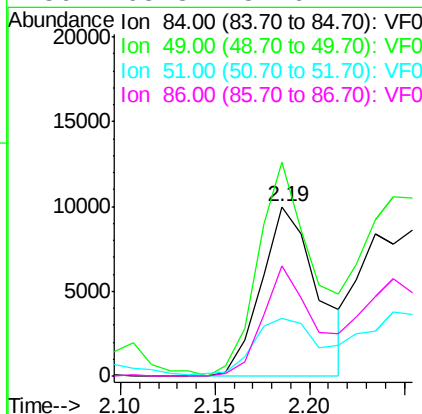
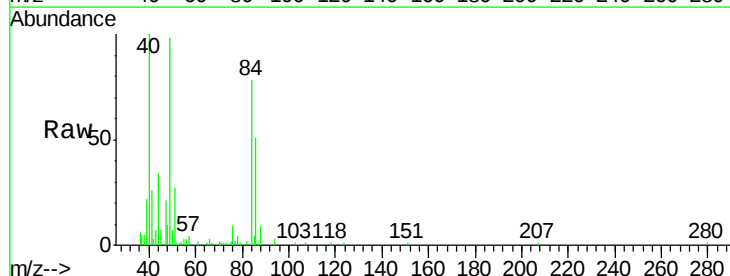
Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

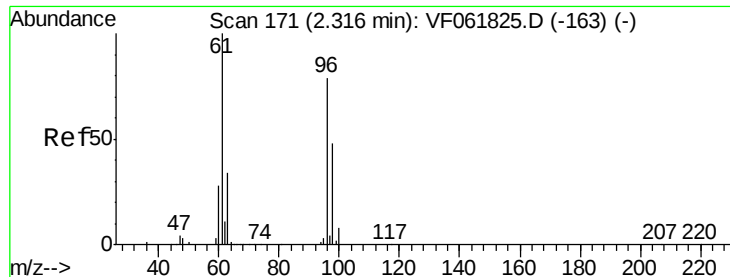
Tot Ion: 73 Resp: 96582
Ion Ratio Lower Upper
73 100
57 19.6 16.1 24.1



#20
Methylene Chloride
Concen: 3.671 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion: 84 Resp: 20716
Ion Ratio Lower Upper
84 100
49 126.3 96.8 145.2
51 34.4 31.8 47.6
86 65.3 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 25.683 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

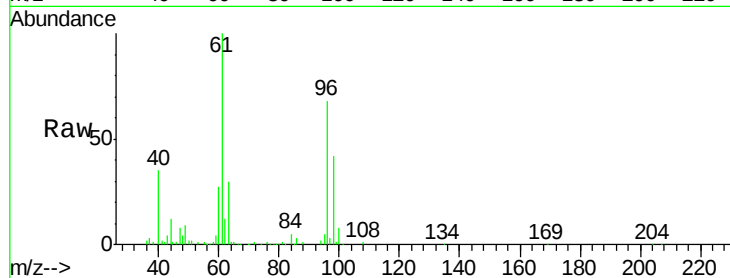
Tot Ion: 96 Resp: 59104

Ion Ratio Lower Upper

96 100

61 146.2 101.0 151.6

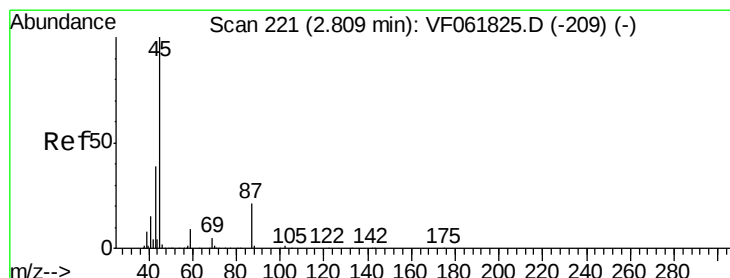
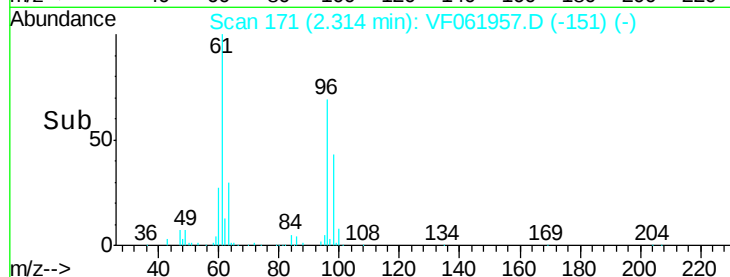
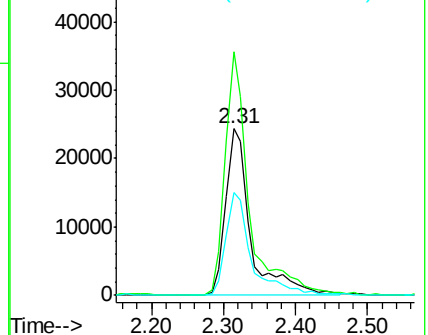
98 61.9 48.8 73.2



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: 23.107 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion: 45 Resp: 161915

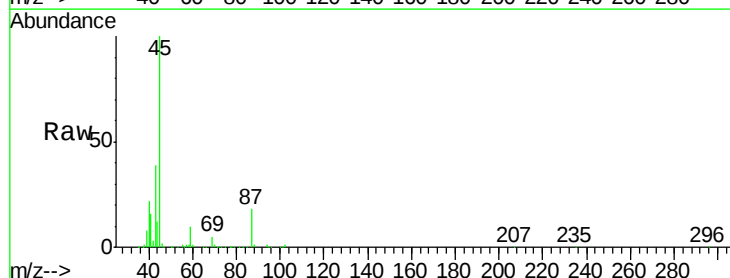
Ion Ratio Lower Upper

45 100

43 39.3 31.8 47.8

87 17.6 17.1 25.7

59 10.3 7.8 11.6

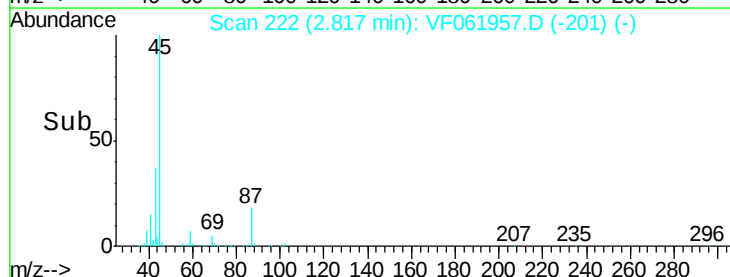
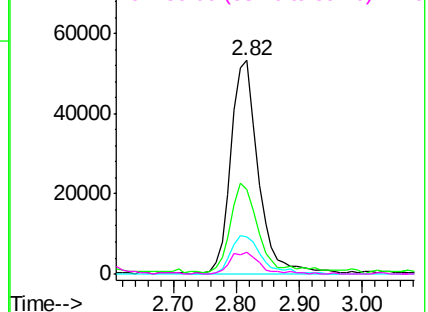


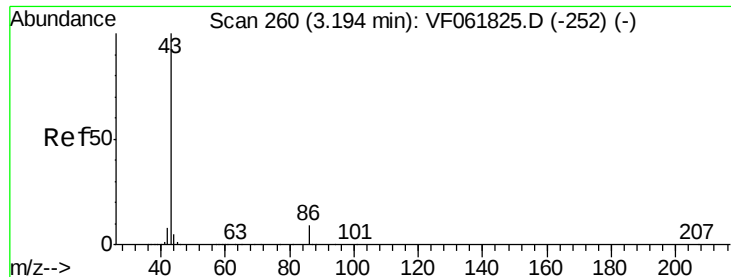
Abundance Ion 45.00 (44.70 to 45.70): VF0

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

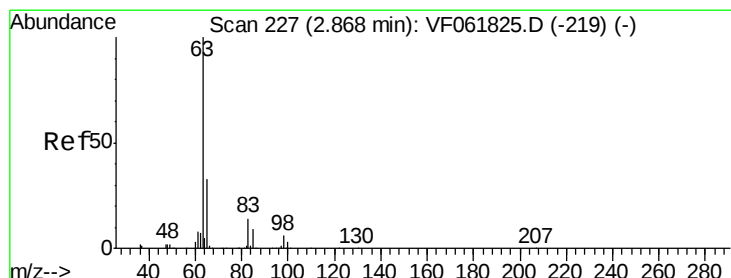
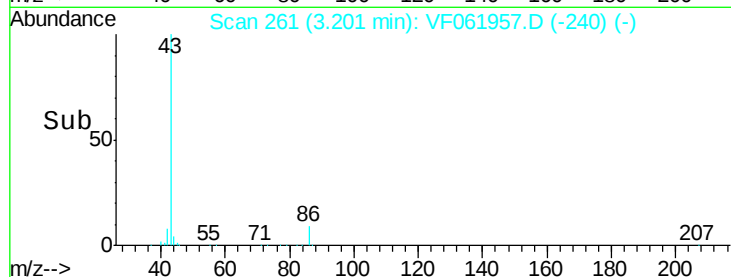
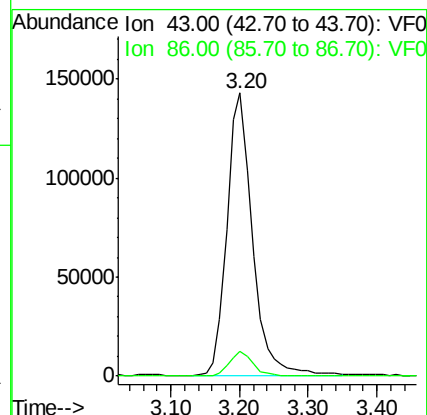
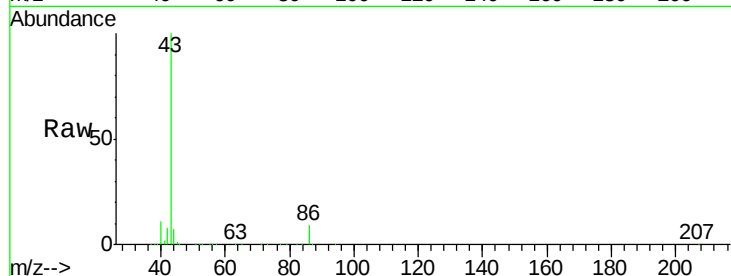




#23
 Vinyl Acetate
 Concen: 117.254 ug/l
 RT: 3.20 min Scan# 261
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

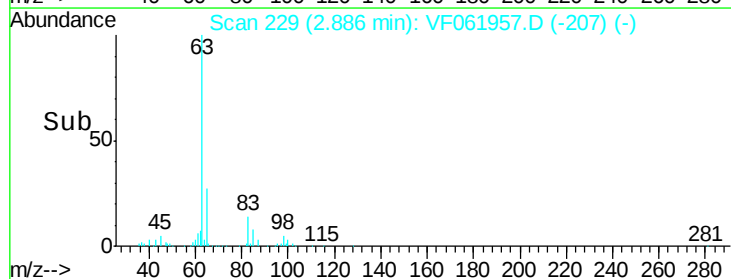
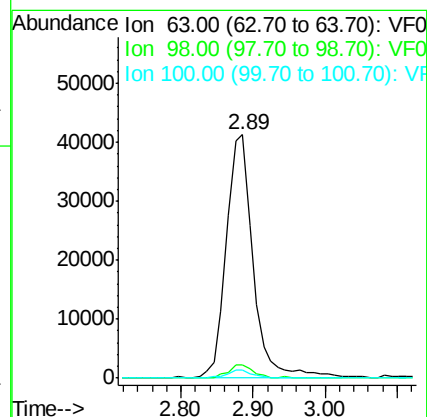
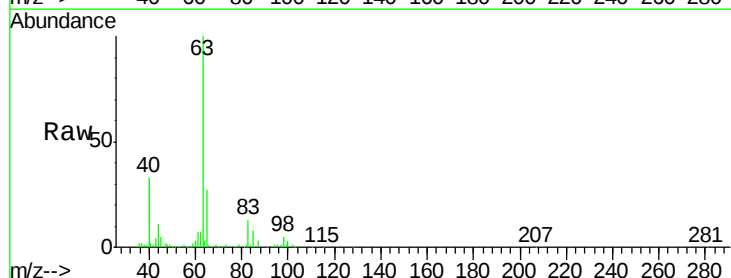
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

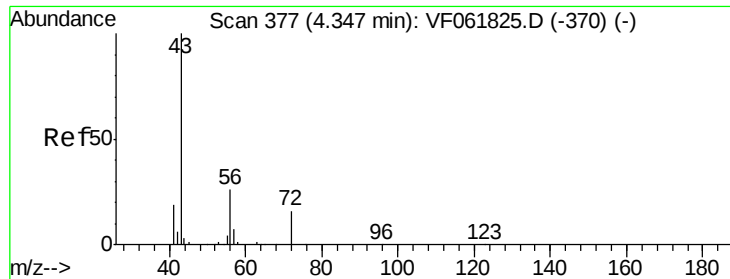
Tot Ion: 43 Resp: 367043
 Ion Ratio Lower Upper
 43 100
 86 8.7 7.0 10.4



#24
 1,1-Dichloroethane
 Concen: 25.535 ug/l
 RT: 2.89 min Scan# 229
 Delta R.T. 0.02 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion: 63 Resp: 106948
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.9 8.6
 100 3.3 1.8 5.3





#25

2-Butanone

Concen: 116.097 ug/l

RT: 4.35 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

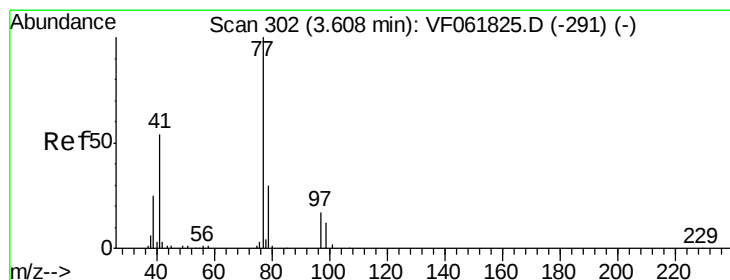
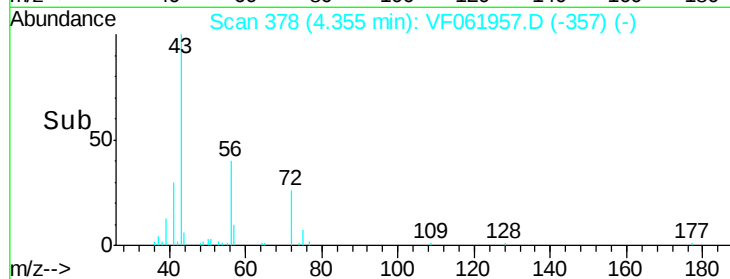
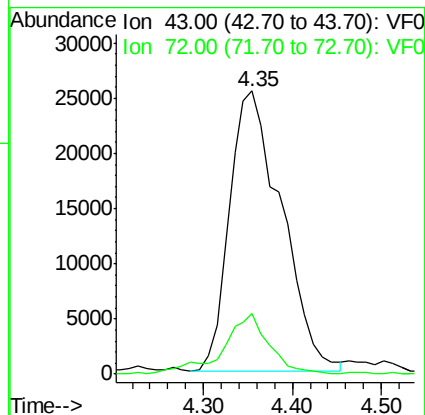
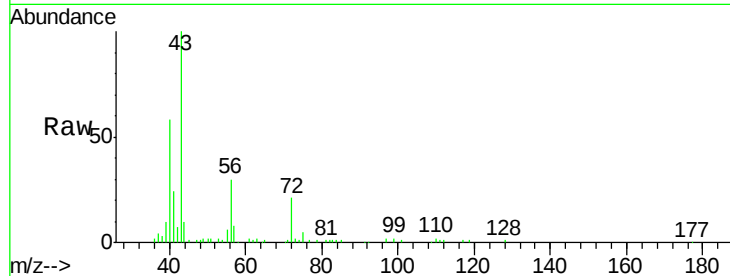
VF0315SBSD01

Tot Ion: 43 Resp: 102994

Ion Ratio Lower Upper

43 100

72 21.3 16.2 24.4



#26

2,2-Dichloropropane

Concen: 23.678 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.01 min

Lab File: VF061957.D

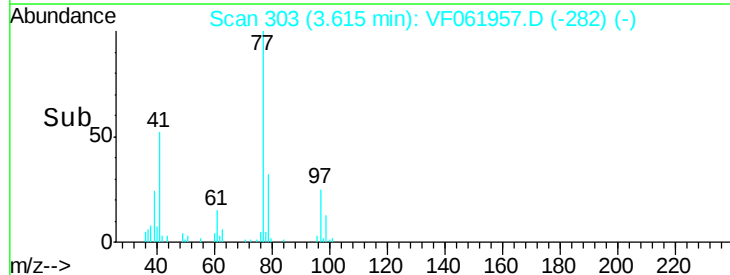
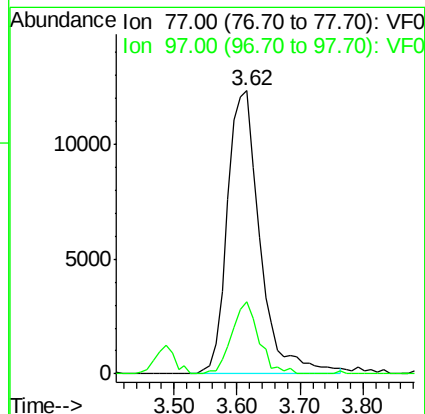
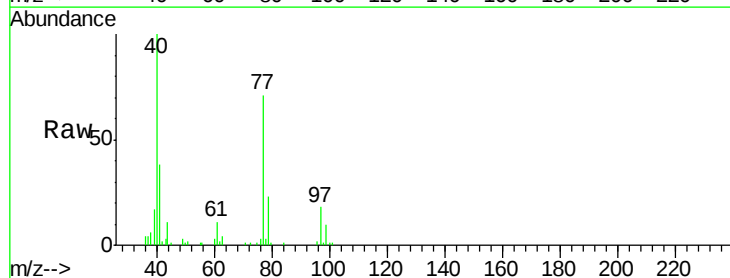
Acq: 15 Mar 2019 13:19

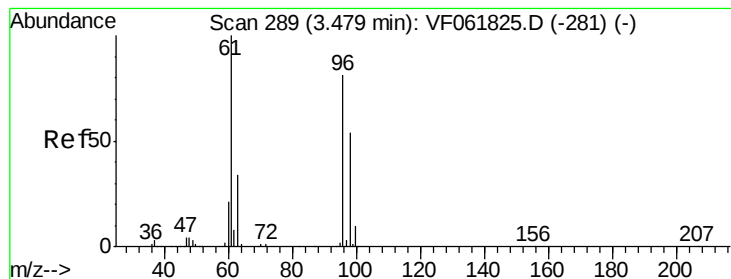
Tgt Ion: 77 Resp: 44270

Ion Ratio Lower Upper

77 100

97 25.4 10.4 31.4



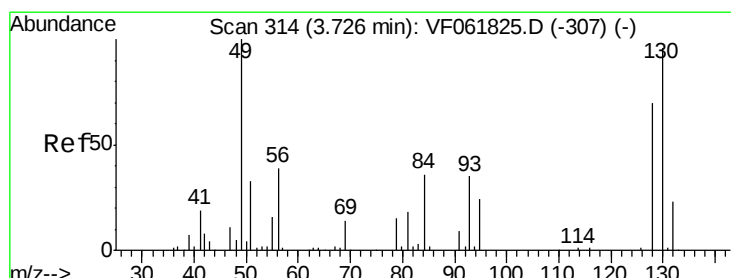
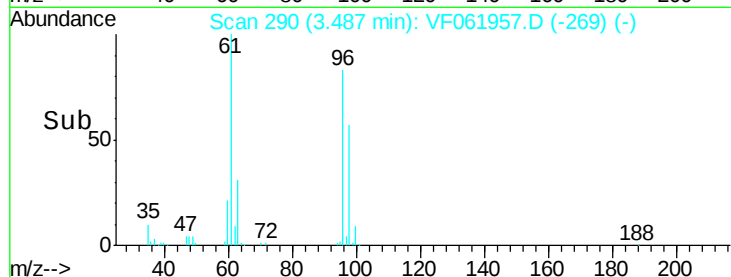
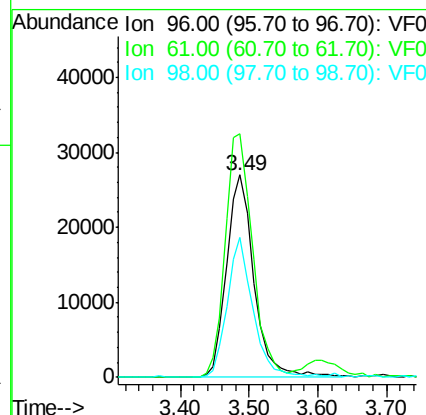
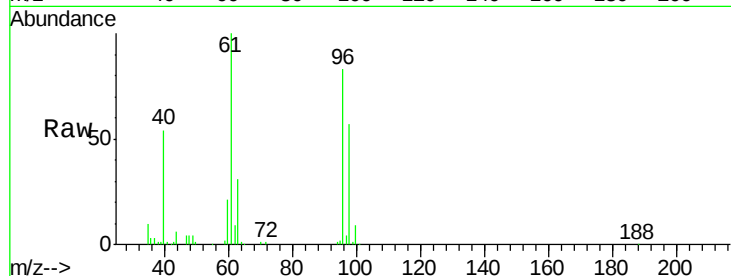


#27

cis-1,2-Dichloroethene
 Concen: 23.385 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

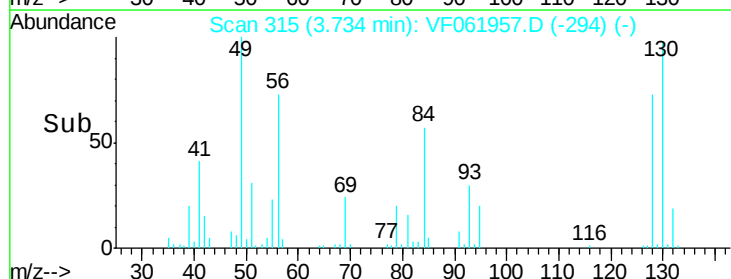
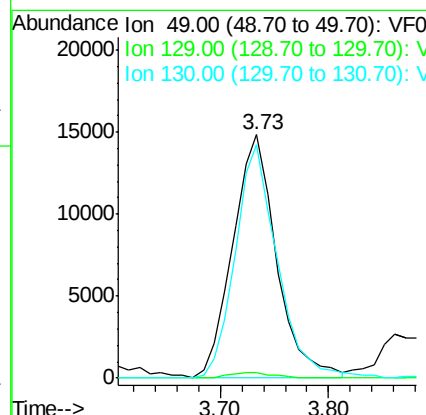
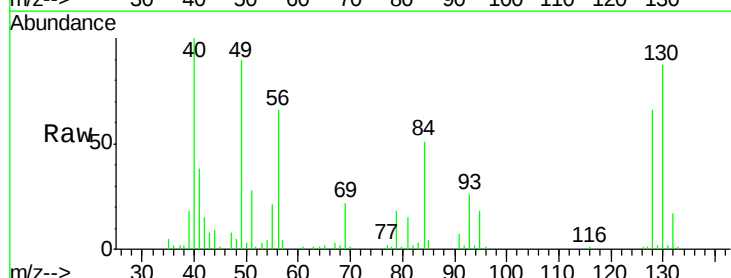
Tot Ion	96	Resp	74557
Ion	Ratio	Lower	Upper
96	100		
61	120.2	0.0	245.8
98	68.9	0.0	132.6

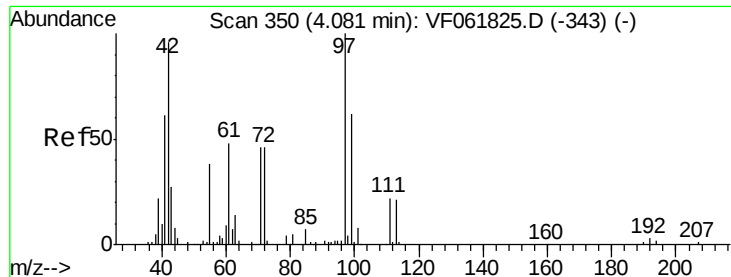


#28

Bromochloromethane
 Concen: 22.926 ug/l
 RT: 3.73 min Scan# 315
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion	49	Resp	41856
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	0.0#
130	96.1	76.9	115.3

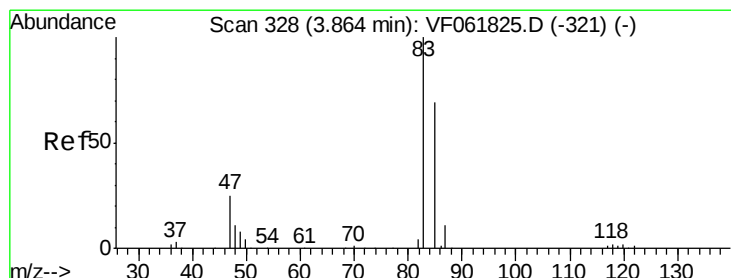
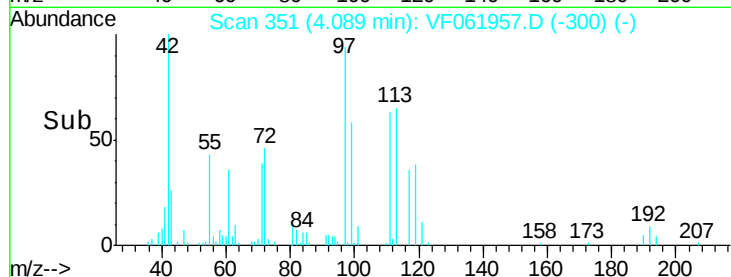
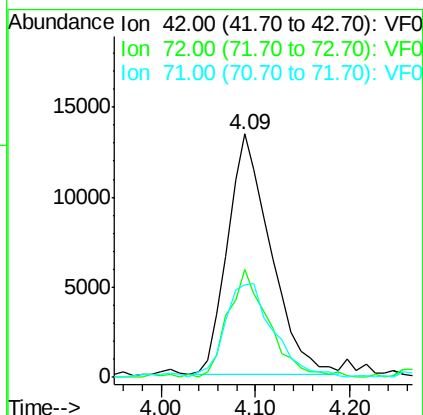
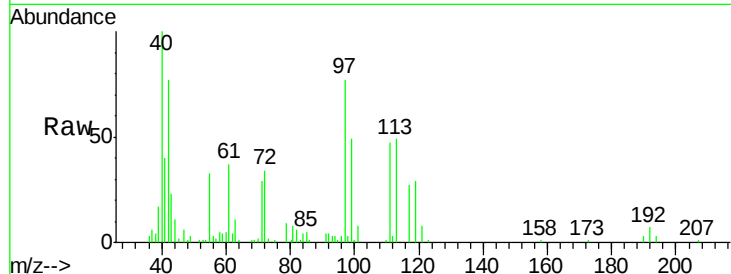




#29
Tetrahydrofuran
Concen: 110.867 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

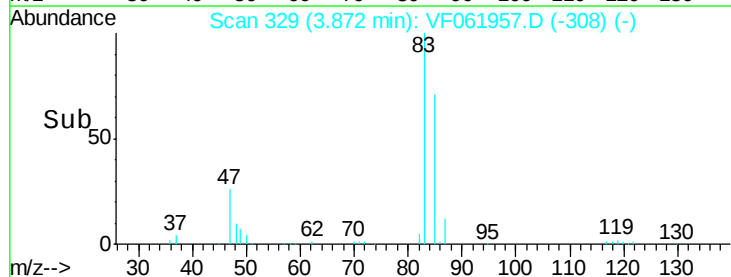
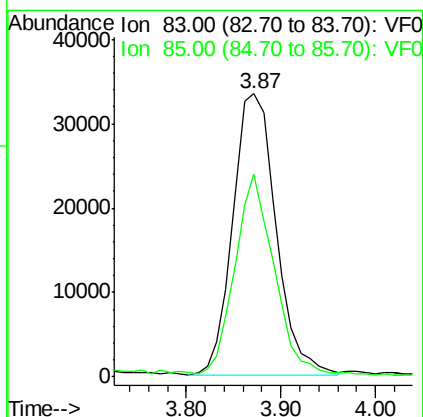
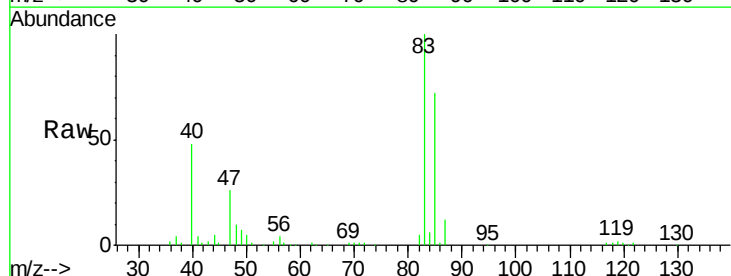
Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

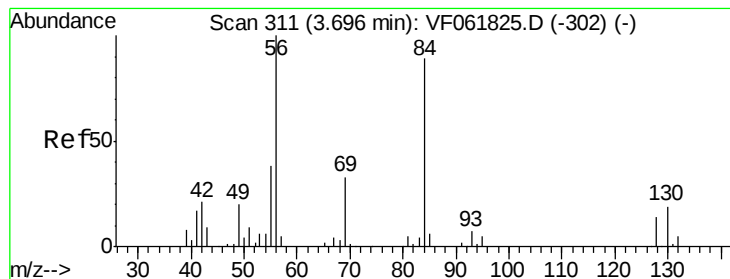
Tot Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.4	51.6
71	43.4	34.6	52.0



#30
Chloroform
Concen: 21.991 ug/l
RT: 3.87 min Scan# 329
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	71.6	55.3	82.9





#31

Cyclohexane

Concen: 22.462 ug/l

RT: 3.69 min Scan# 311

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

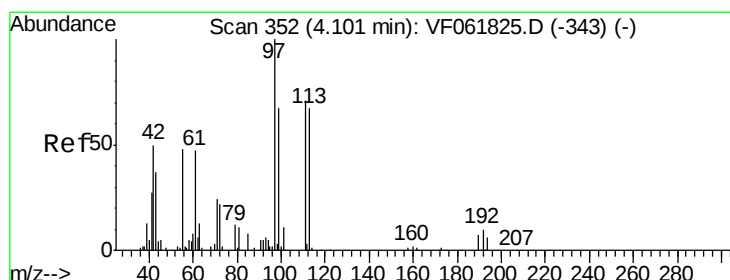
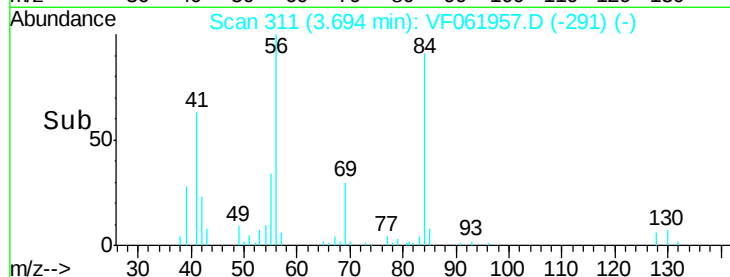
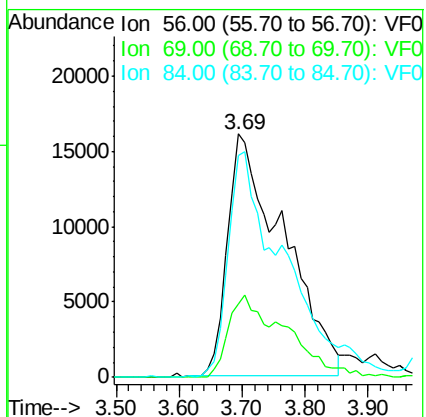
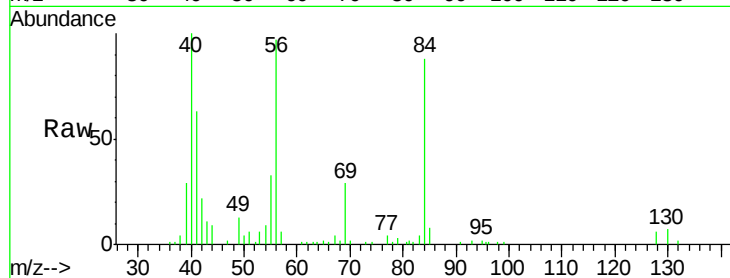
Tot Ion: 56 Resp: 98537

Ion Ratio Lower Upper

56 100

69 29.9 26.0 39.0

84 90.9 71.0 106.6



#32

1,1,1-Trichloroethane

Concen: 23.689 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

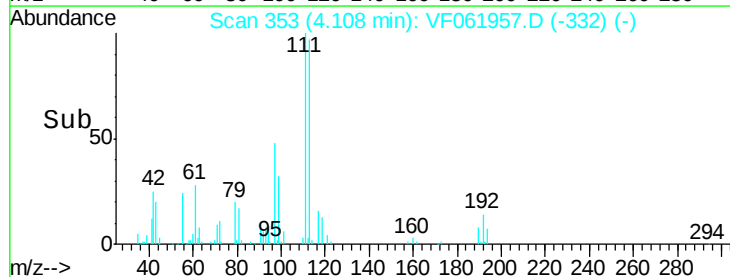
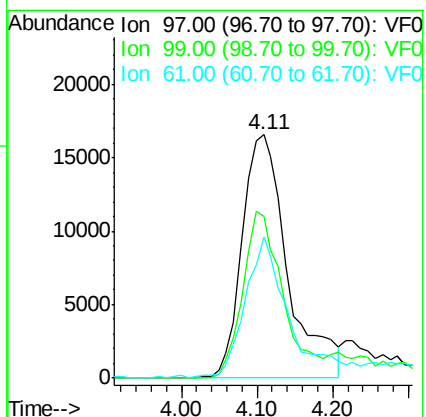
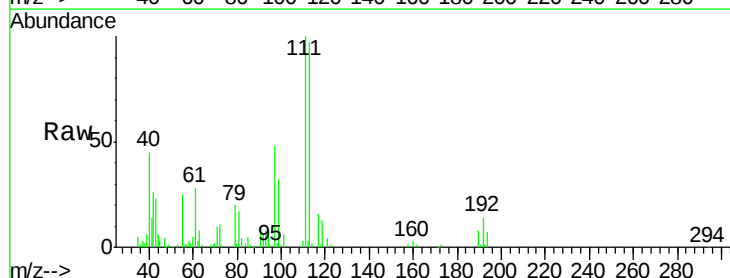
Tgt Ion: 97 Resp: 69853

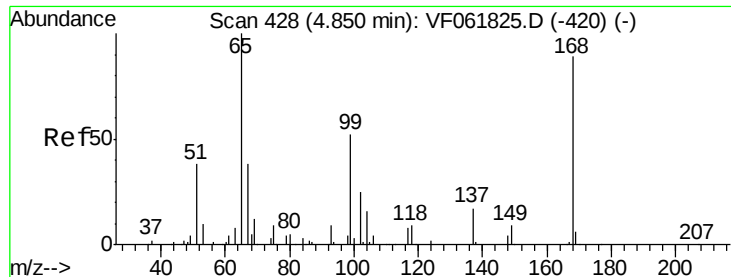
Ion Ratio Lower Upper

97 100

99 66.3 53.8 80.8

61 58.0 37.9 56.9#





#33

1,2-Dichloroethane-d4

Concen: 51.233 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

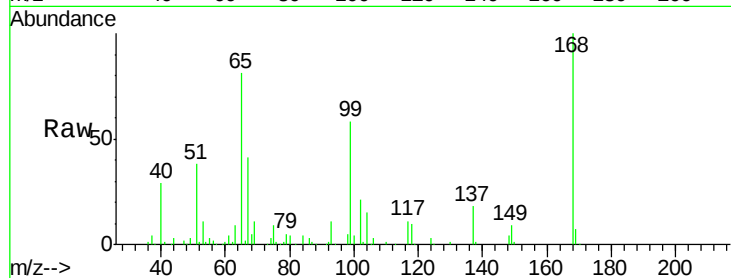
VF0315SBS01

Tot Ion: 65 Resp: 106670

Ion Ratio Lower Upper

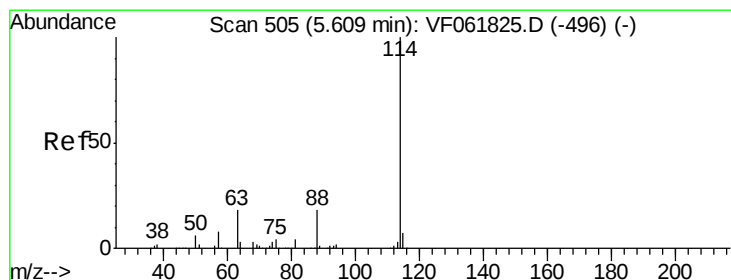
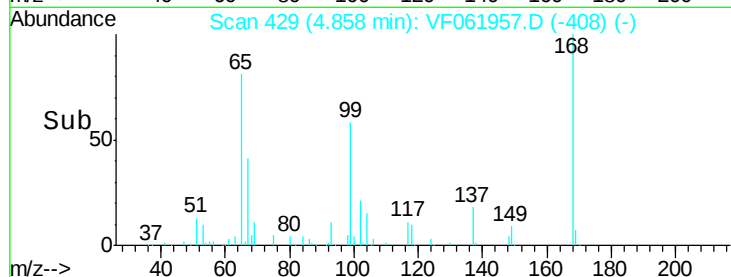
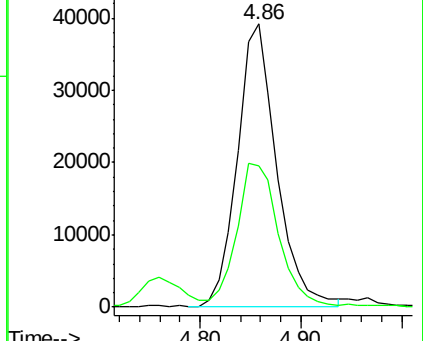
65 100

67 50.1 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

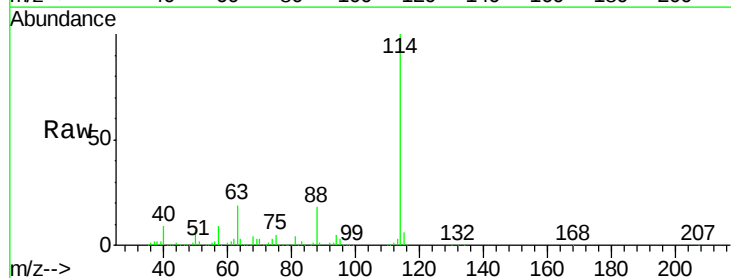
Tgt Ion: 114 Resp: 421293

Ion Ratio Lower Upper

114 100

63 19.5 0.0 35.6

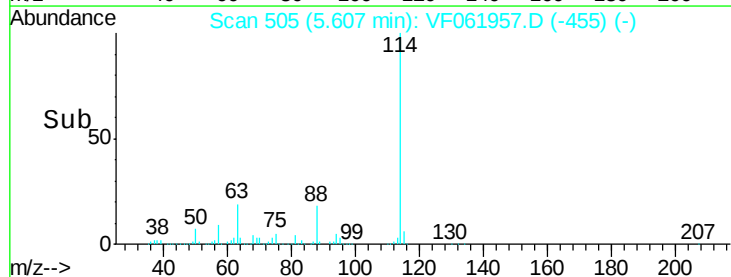
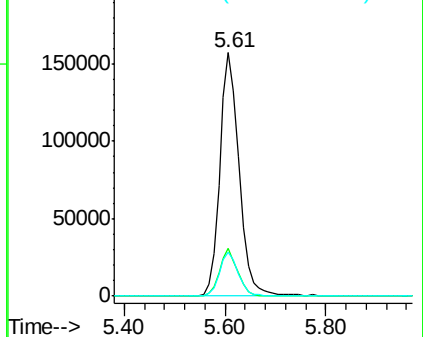
88 17.9 0.0 35.6

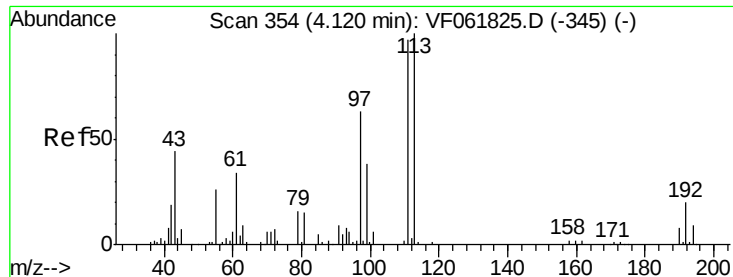


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

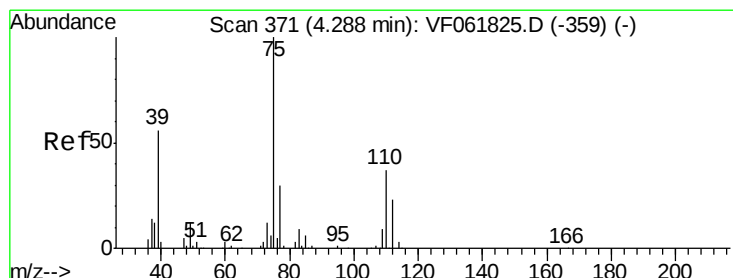
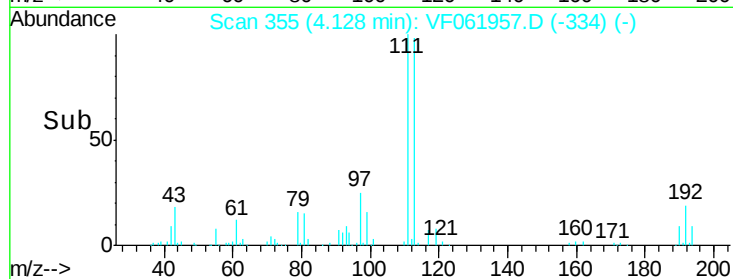
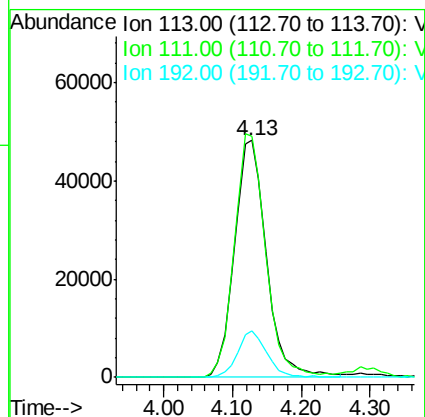
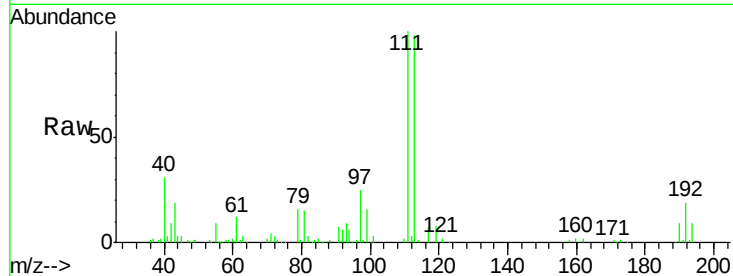




#35
 Dibromofluoromethane
 Concen: 52.771 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

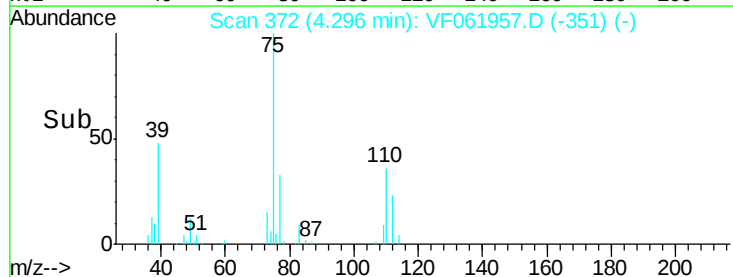
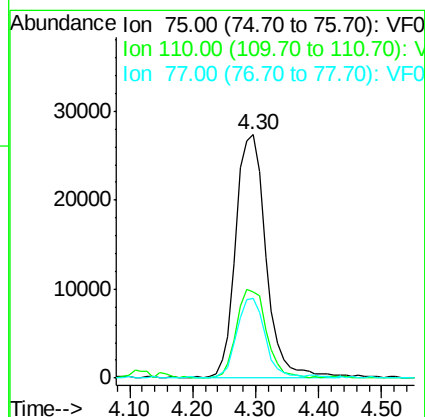
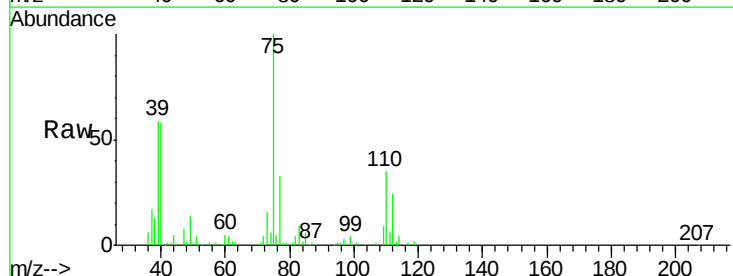
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

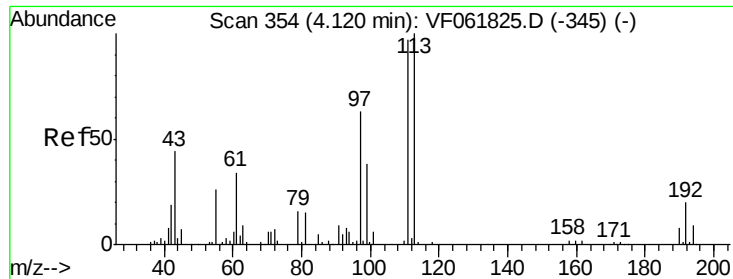
Tot Ion:113 Resp: 155150
 Ion Ratio Lower Upper
 113 100
 111 101.9 77.6 116.4
 192 20.0 15.9 23.9



#36
 1,1-Dichloropropene
 Concen: 22.957 ug/l
 RT: 4.30 min Scan# 372
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion: 75 Resp: 91360
 Ion Ratio Lower Upper
 75 100
 110 35.4 18.6 55.6
 77 32.9 24.2 36.2

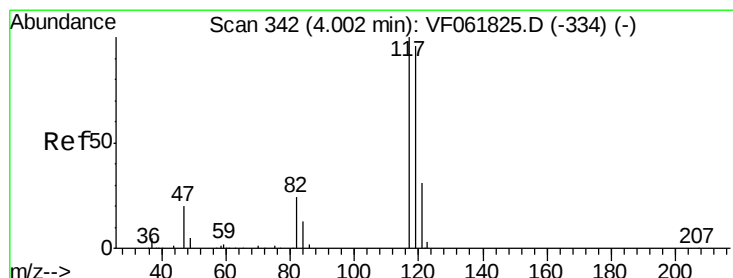
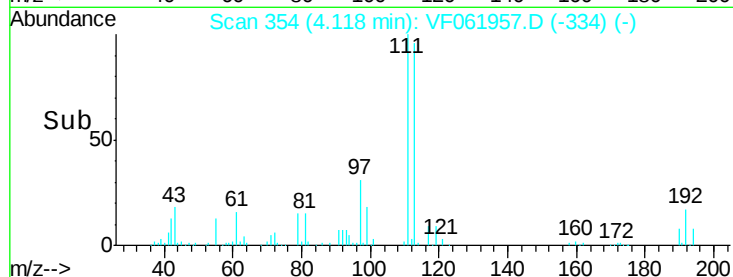
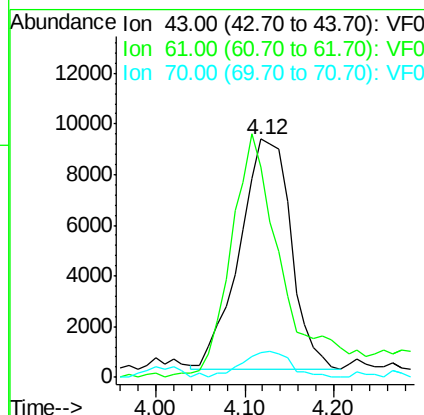
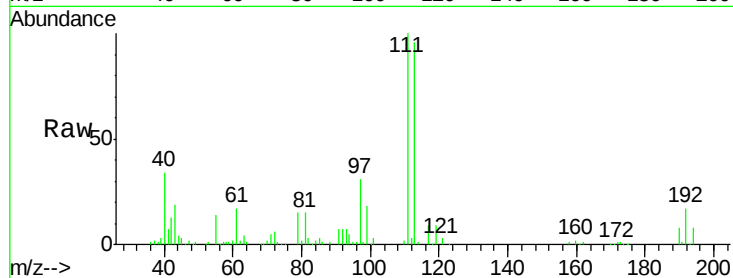




#37
Ethyl Acetate
Concen: 21.653 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

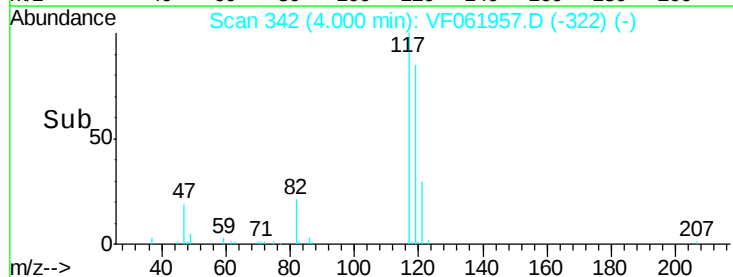
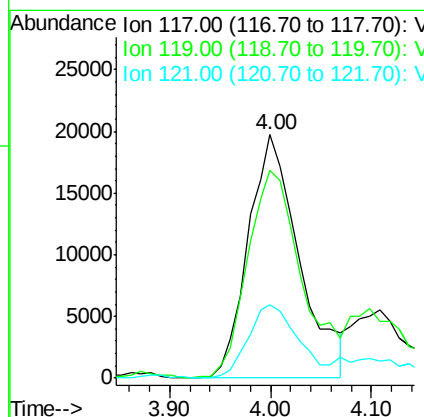
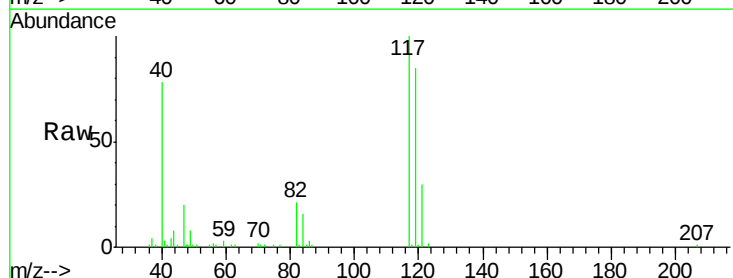
Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

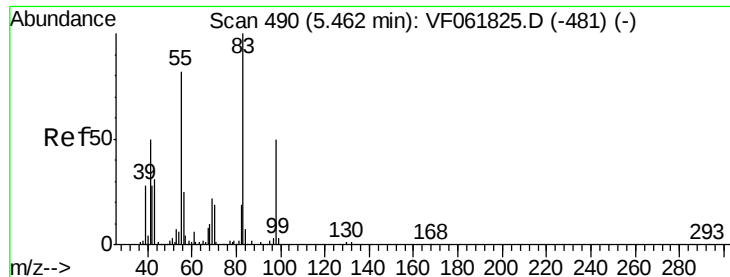
Tot Ion: 43 Resp: 36169
Ion Ratio Lower Upper
43 100
61 88.2 60.7 91.1
70 10.2 10.6 15.8#



#38
Carbon Tetrachloride
Concen: 24.625 ug/l
RT: 4.00 min Scan# 342
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion: 117 Resp: 69372
Ion Ratio Lower Upper
117 100
119 85.4 76.6 114.8
121 30.2 24.4 36.6





#39

Methvlcvclohexane

Concen: 23.386 ug/l

RT: 5.46 min Scan# 490

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

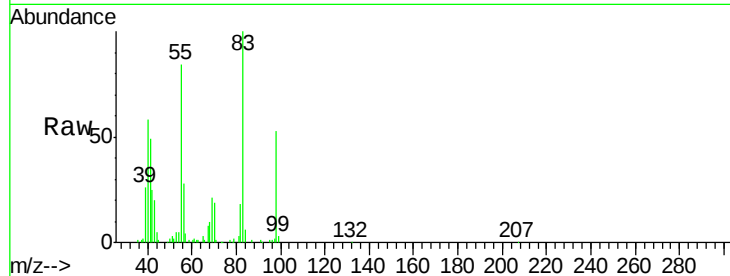
Tot Ion: 83 Resp: 109926

Ion Ratio Lower Upper

83 100

55 83.6 66.0 99.0

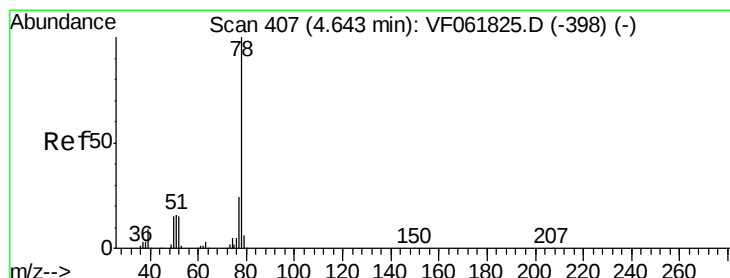
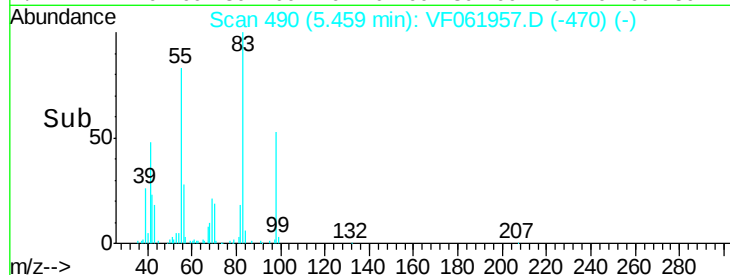
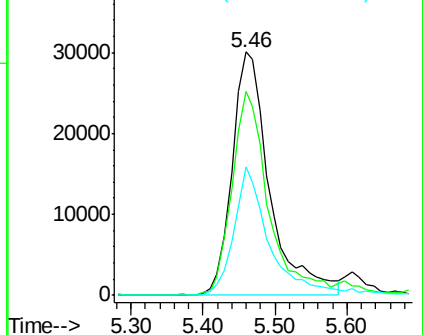
98 52.9 39.8 59.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#40

Benzene

Concen: 22.961 ug/l

RT: 4.65 min Scan# 408

Delta R.T. 0.01 min

Lab File: VF061957.D

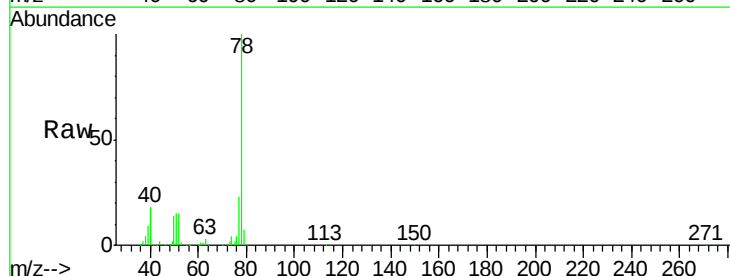
Acq: 15 Mar 2019 13:19

Tgt Ion: 78 Resp: 238849

Ion Ratio Lower Upper

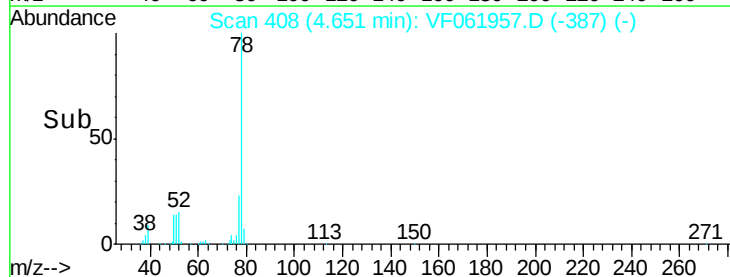
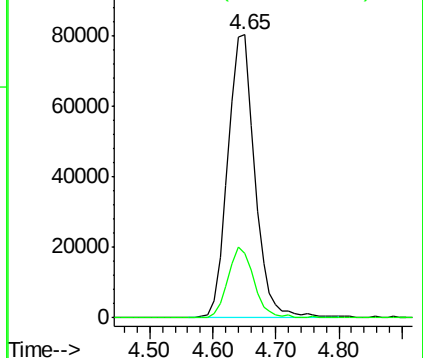
78 100

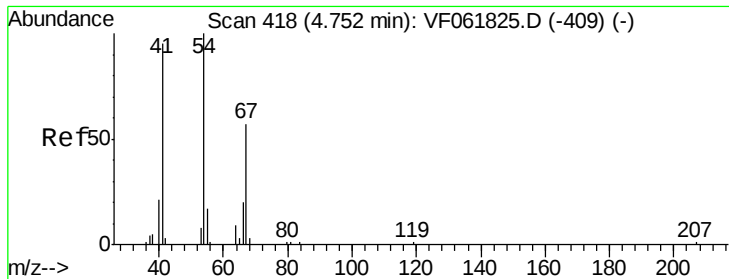
77 23.0 19.5 29.3



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

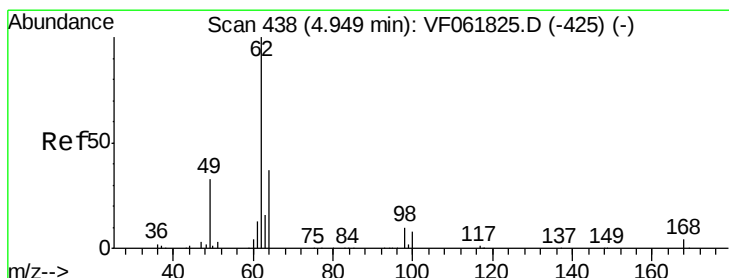
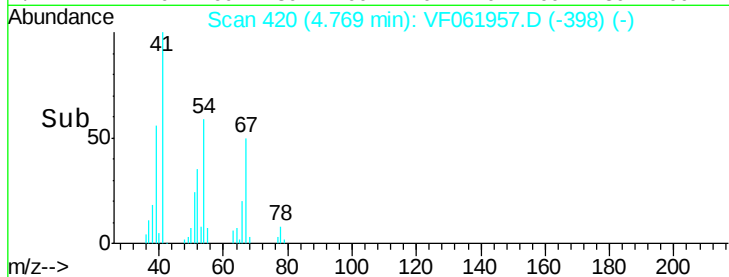
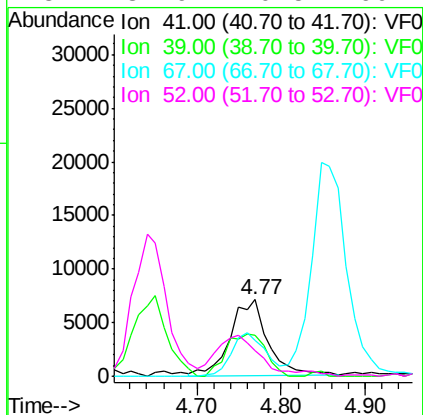
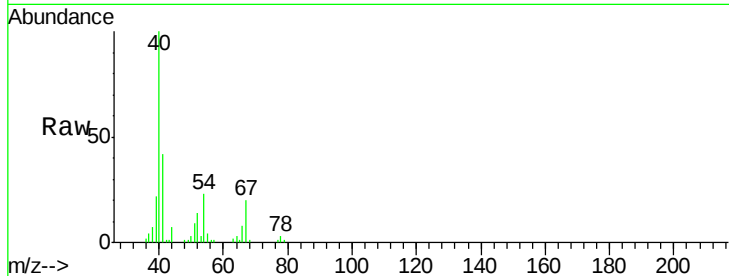




#41
Methacrylonitrile
Concen: 23.492 ug/l
RT: 4.77 min Scan# 420
Delta R.T. 0.02 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

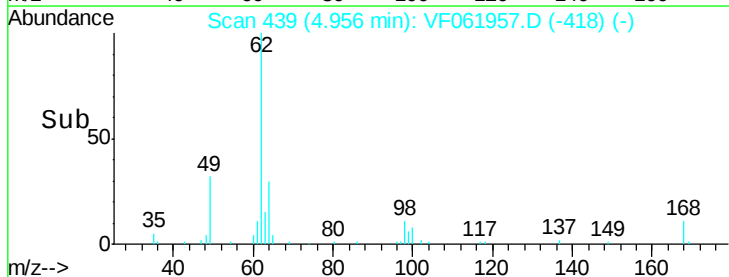
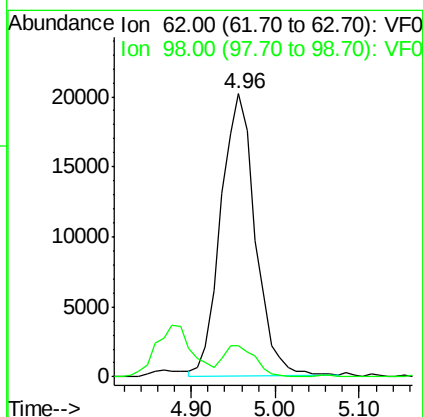
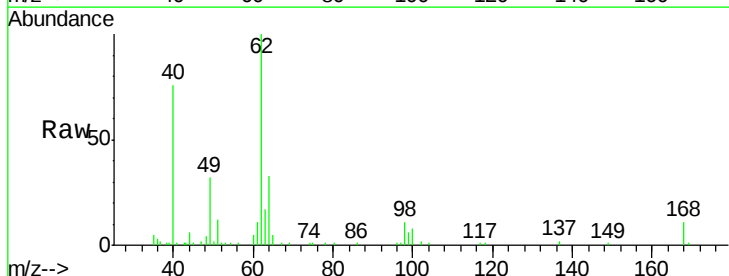
Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

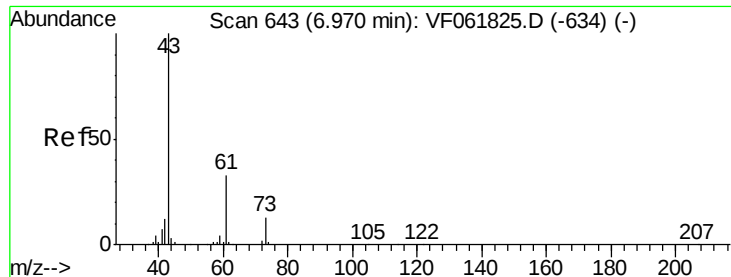
Tot Ion:	41	Resp:	21499
Ion	Ratio	Lower	Upper
41	100		
39	53.1	43.0	64.6
67	47.0	47.8	71.8#
52	32.9	40.5	60.7#



#42
1,2-Dichloroethane
Concen: 22.132 ug/l
RT: 4.96 min Scan# 439
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion:	62	Resp:	57374
Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	21.0



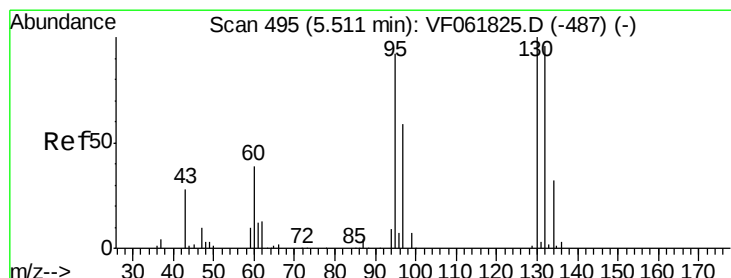
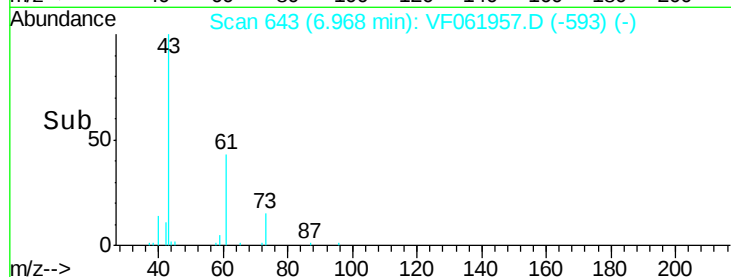
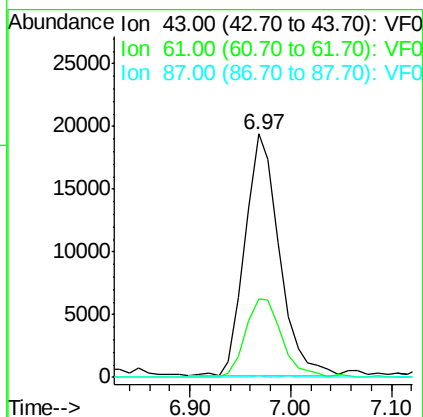
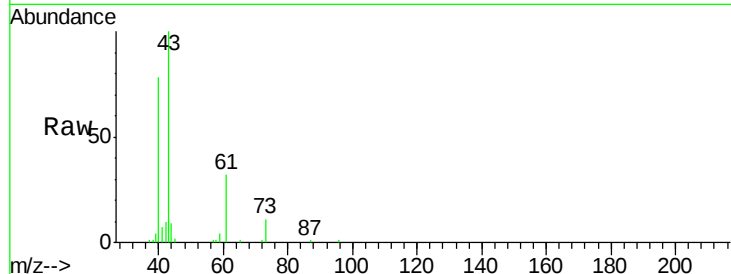


#43

Isopropyl Acetate
 Concen: 22.145 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

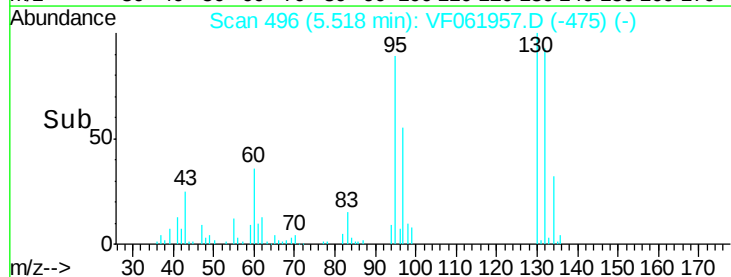
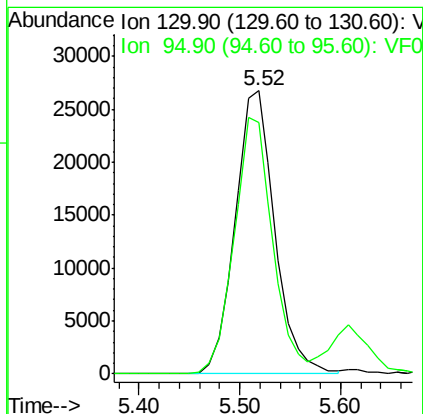
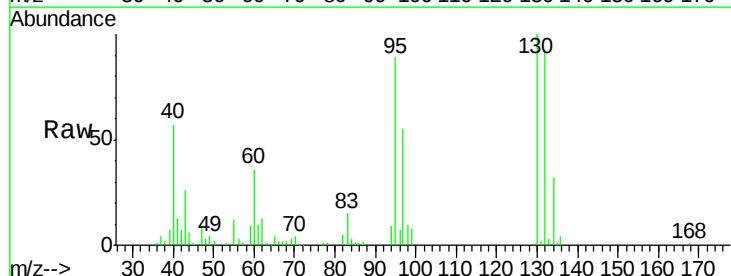
Tot Ion: 43 Resp: 45596
 Ion Ratio Lower Upper
 43 100
 61 32.2 26.1 39.1
 87 0.6 0.0 0.0#

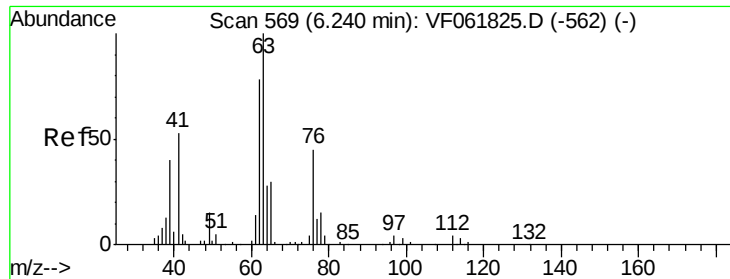


#44

Trichloroethene
 Concen: 22.605 ug/l
 RT: 5.52 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion:130 Resp: 73076
 Ion Ratio Lower Upper
 130 100
 95 88.7 0.0 184.0





#45

1,2-Dichloropropane

Concen: 22.980 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

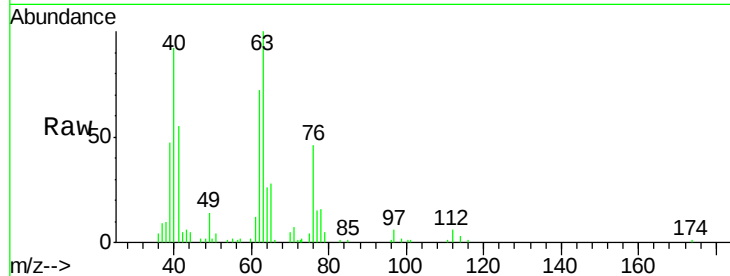
VF0315SBS01

Tot Ion: 63 Resp: 56843

Ion Ratio Lower Upper

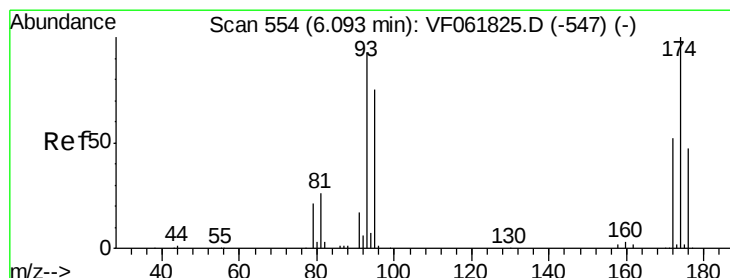
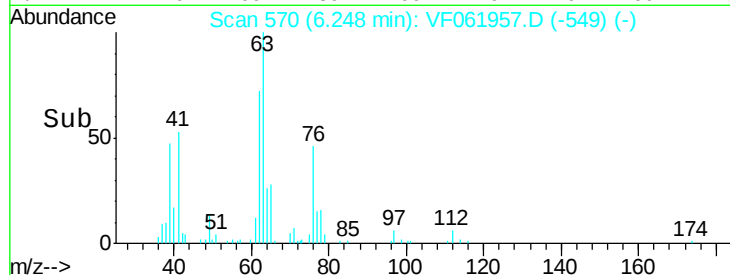
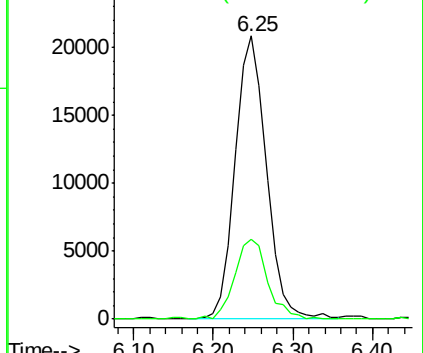
63 100

65 28.2 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: 22.103 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

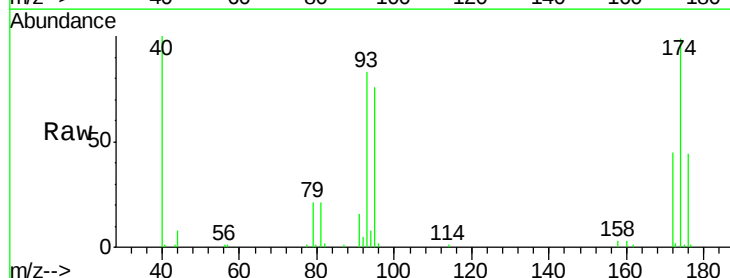
Tgt Ion: 93 Resp: 34409

Ion Ratio Lower Upper

93 100

95 91.2 64.4 96.6

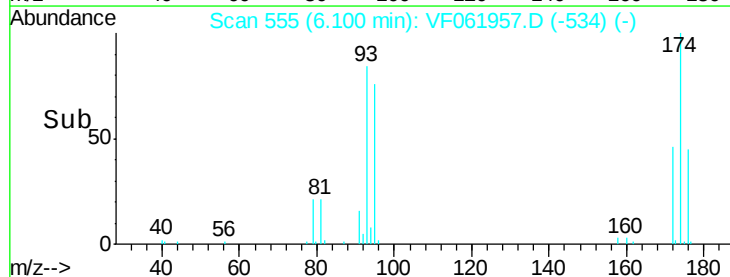
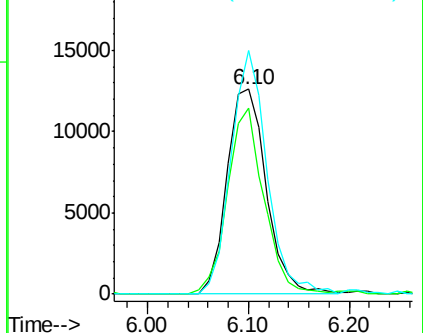
174 119.0 85.8 128.6

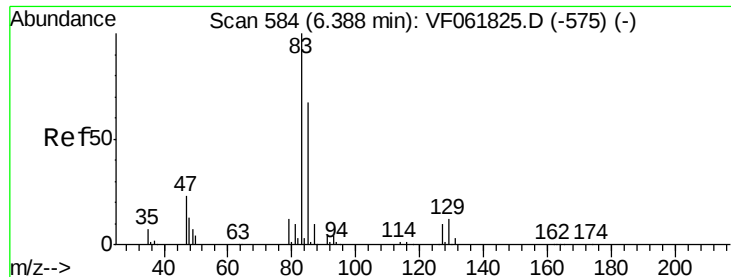


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 21.798 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

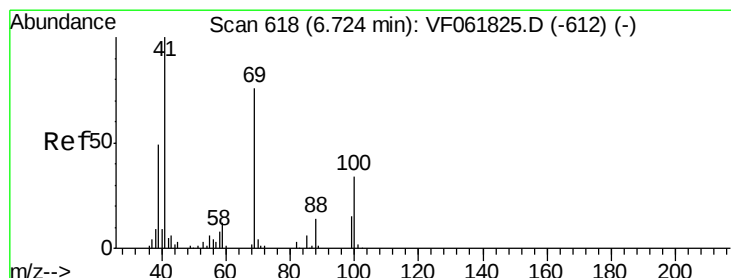
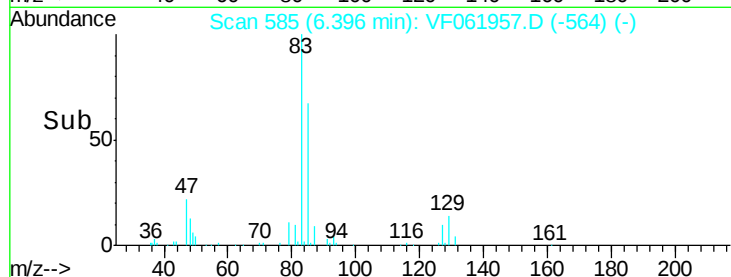
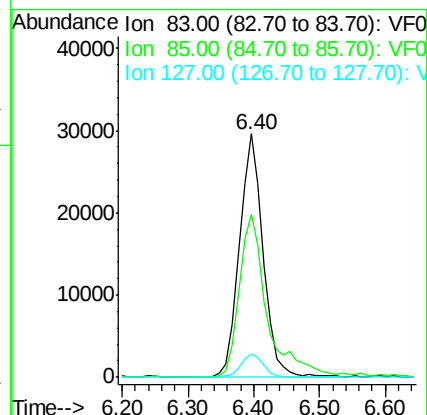
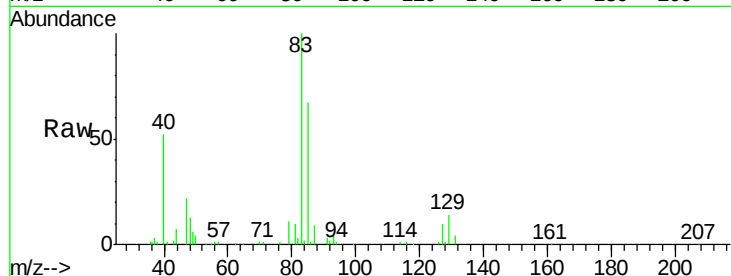
Tot Ion: 83 Resp: 74968

Ion Ratio Lower Upper

83 100

85 67.1 53.6 80.4

127 9.7 8.1 12.1



#48

Methyl methacrylate

Concen: 23.006 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

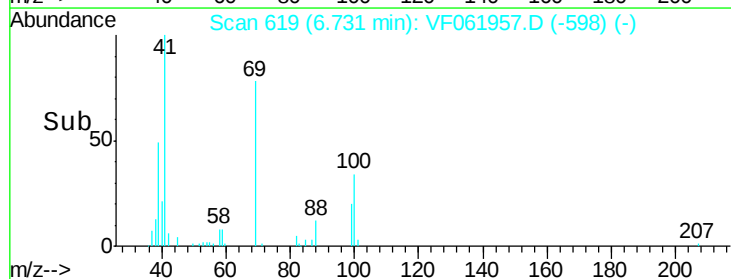
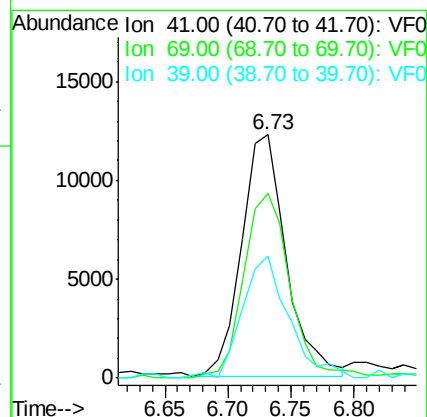
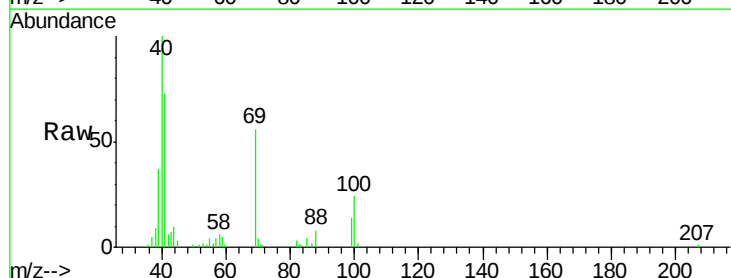
Tgt Ion: 41 Resp: 29979

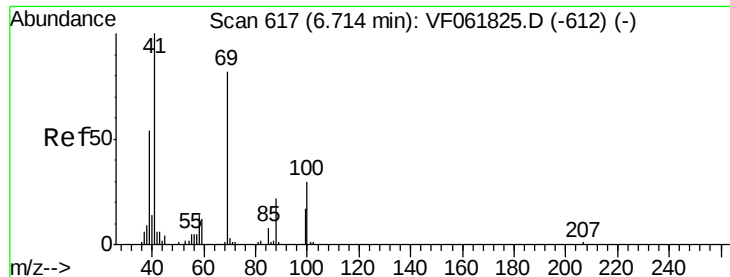
Ion Ratio Lower Upper

41 100

69 76.1 60.4 90.6

39 50.1 39.7 59.5





#49

1,4-Dioxane

Concen: 379.276 ug/l

RT: 6.72 min Scan# 618

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBSD01

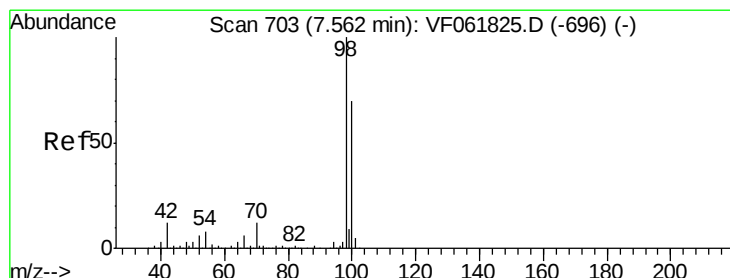
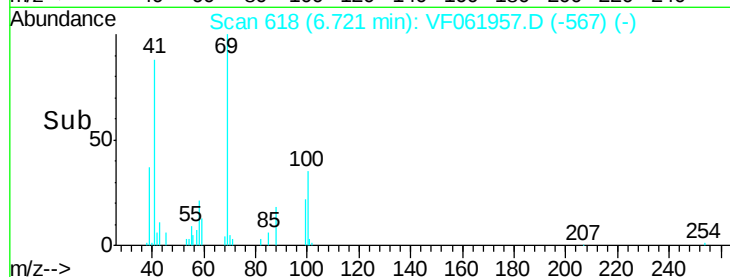
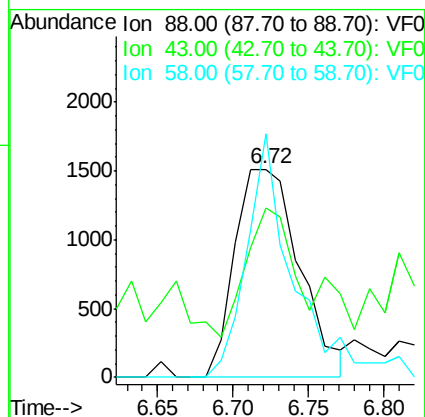
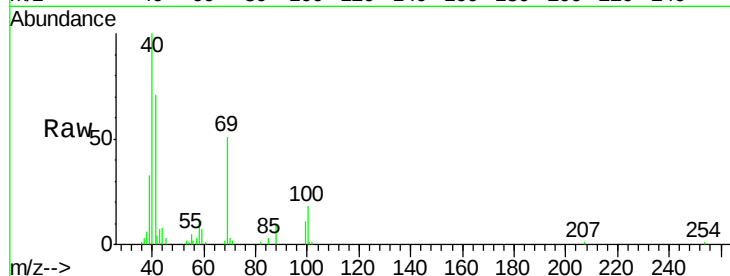
Tot Ion: 88 Resp: 4518

Ion Ratio Lower Upper

88 100

43 81.5 28.4 42.6#

58 116.8 50.7 76.1#



#50

Toluene-d8

Concen: 51.317 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF061957.D

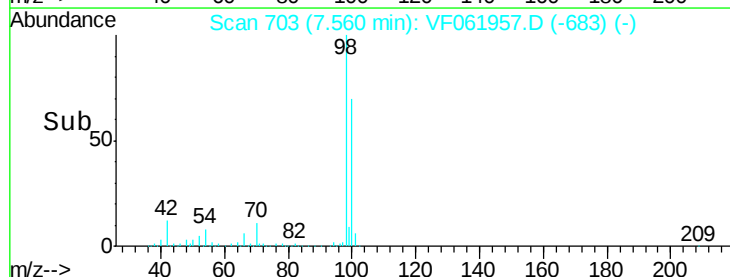
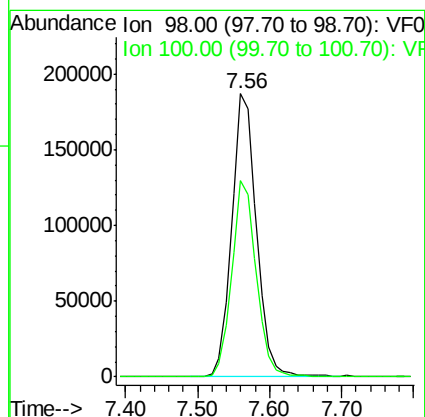
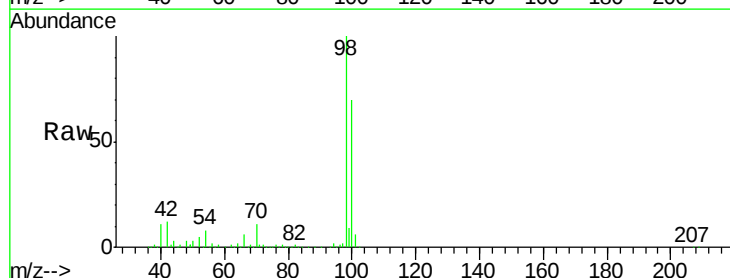
Acq: 15 Mar 2019 13:19

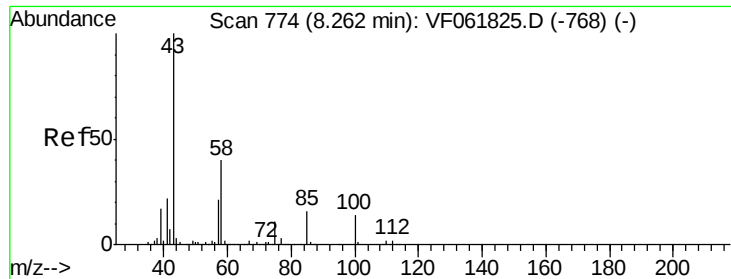
Tgt Ion: 98 Resp: 448450

Ion Ratio Lower Upper

98 100

100 69.5 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 113.778 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

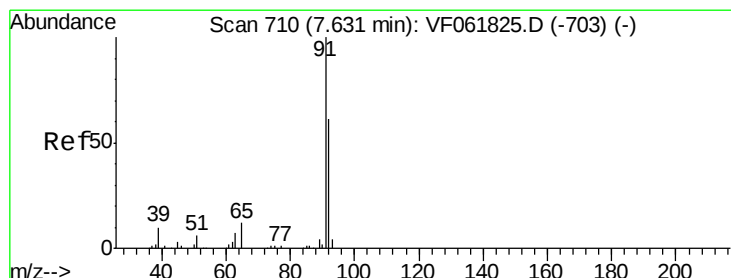
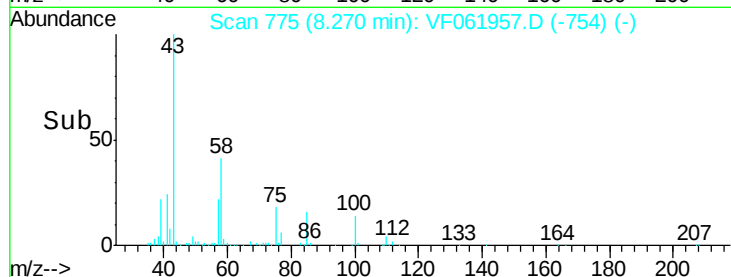
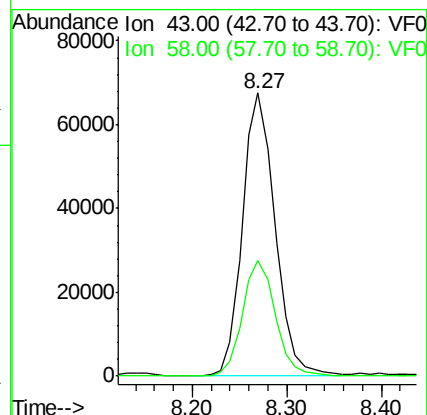
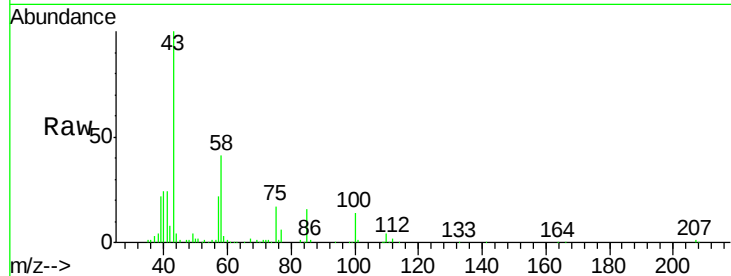
VF0315SBS01

Tot Ion: 43 Resp: 161912

Ion Ratio Lower Upper

43 100

58 40.8 31.8 47.8



#52

Toluene

Concen: 23.553 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061957.D

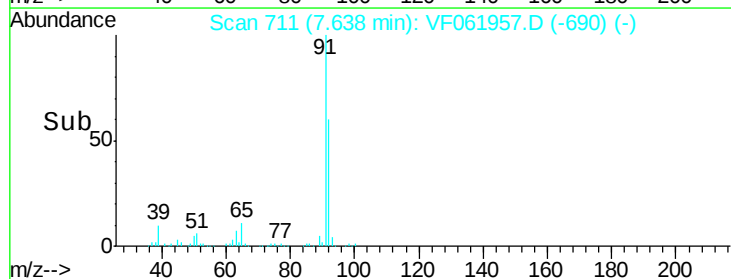
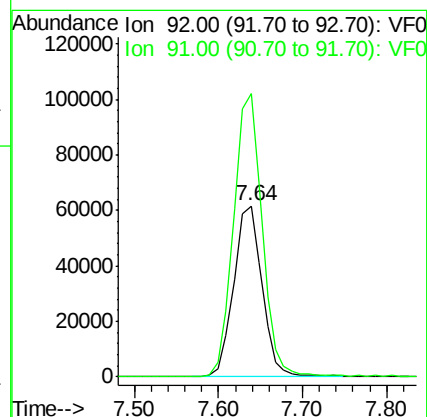
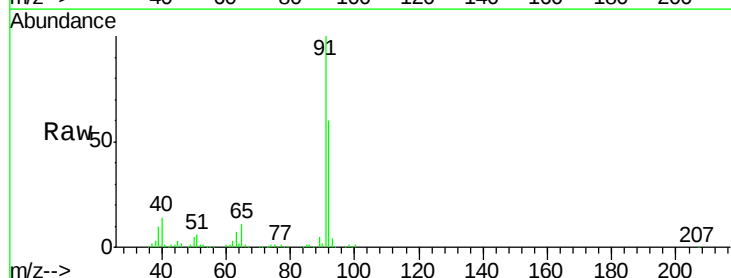
Acq: 15 Mar 2019 13:19

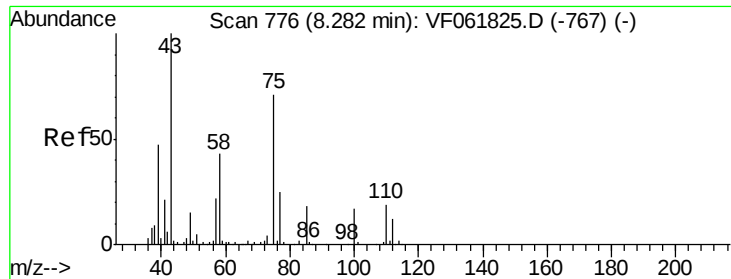
Tgt Ion: 92 Resp: 144935

Ion Ratio Lower Upper

92 100

91 165.6 132.0 198.0

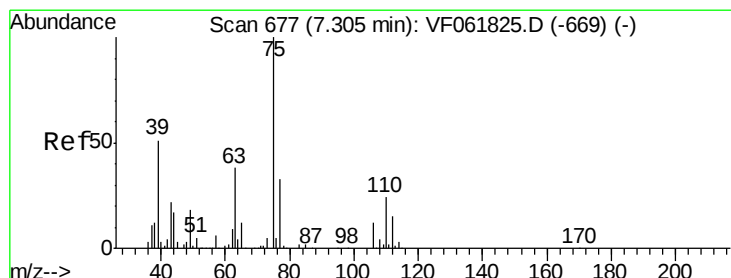
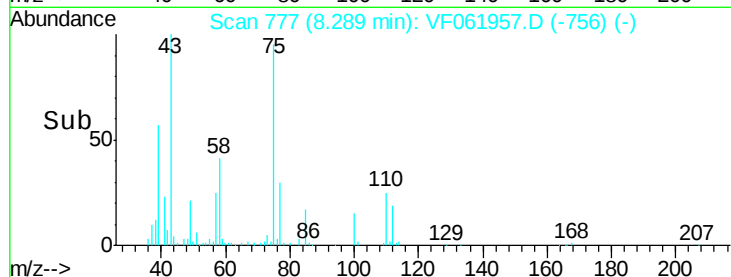
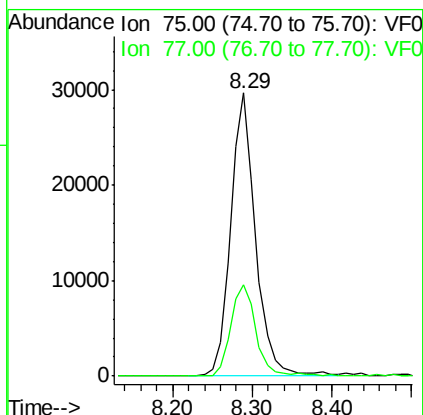
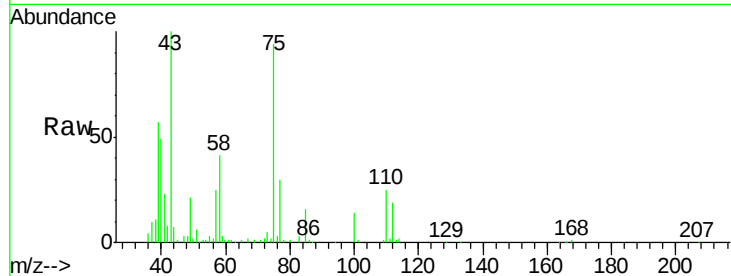




#53
 t-1,3-Dichloropropene
 Concen: 22.795 ug/l
 RT: 8.29 min Scan# 777
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

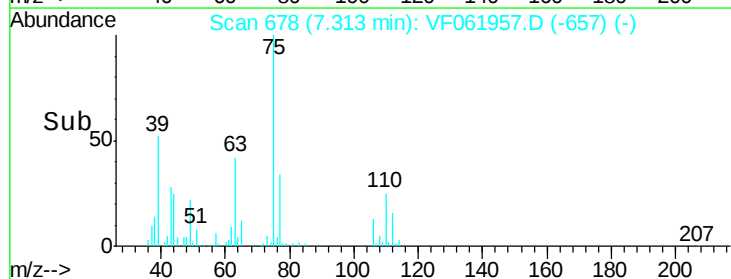
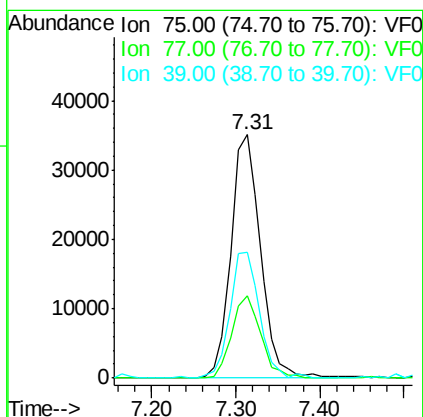
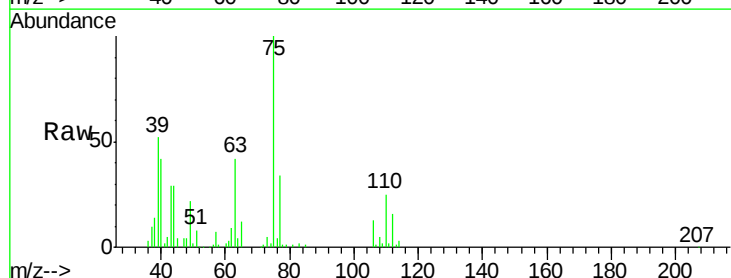
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBSD01

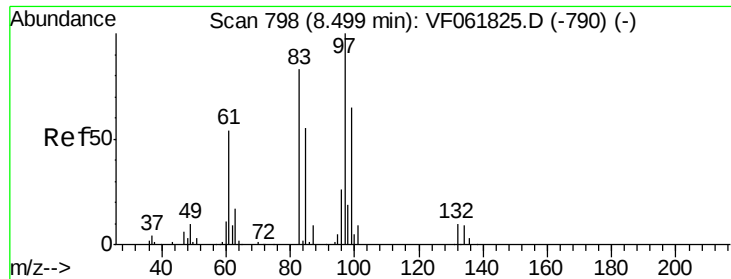
Tot Ion: 75 Resp: 64713
 Ion Ratio Lower Upper
 75 100
 77 32.1 28.0 42.0



#54
 cis-1,3-Dichloropropene
 Concen: 21.959 ug/l
 RT: 7.31 min Scan# 678
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion: 75 Resp: 85989
 Ion Ratio Lower Upper
 75 100
 77 34.1 26.3 39.5
 39 51.9 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 23.127 ug/l

RT: 8.51 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 97 Resp: 41005

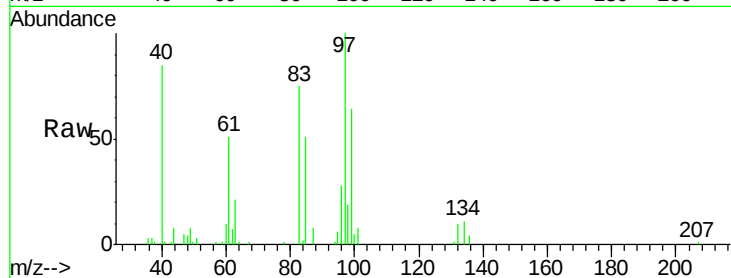
Ion Ratio Lower Upper

97 100

83 74.8 66.5 99.7

85 51.5 44.2 66.2

99 64.4 51.8 77.6

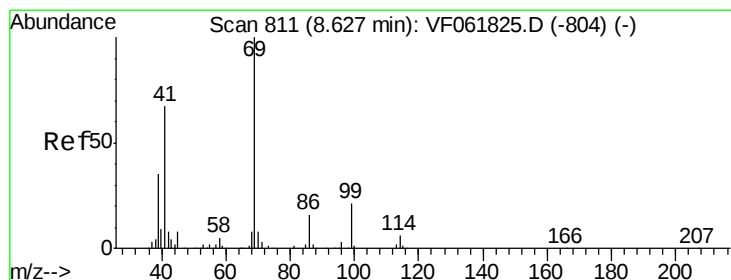
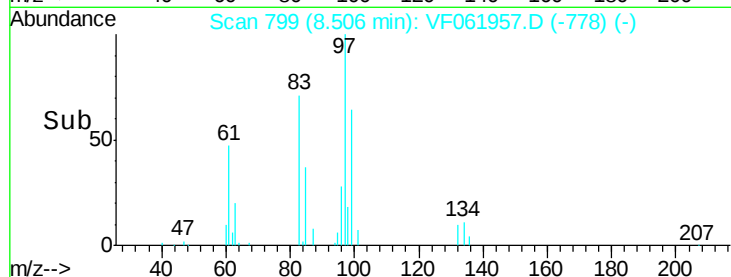
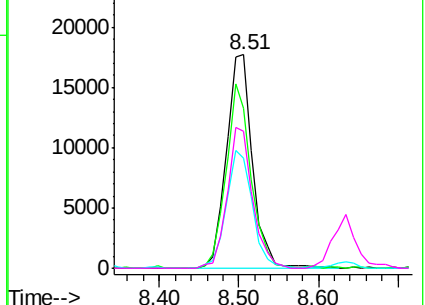


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 21.576 ug/l

RT: 8.63 min Scan# 812

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

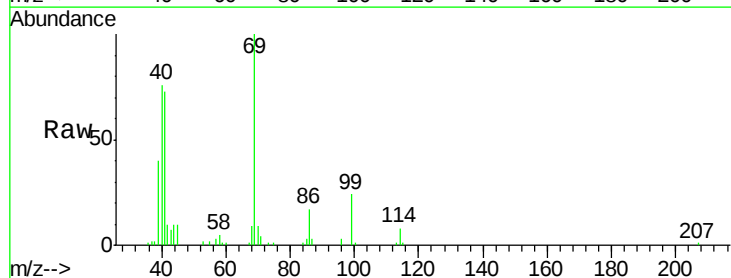
Tgt Ion: 69 Resp: 43113

Ion Ratio Lower Upper

69 100

41 72.9 53.9 80.9

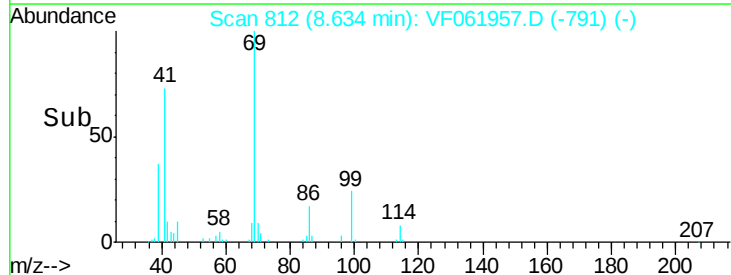
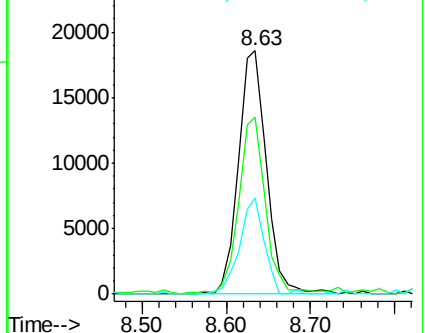
39 39.8 28.3 42.5

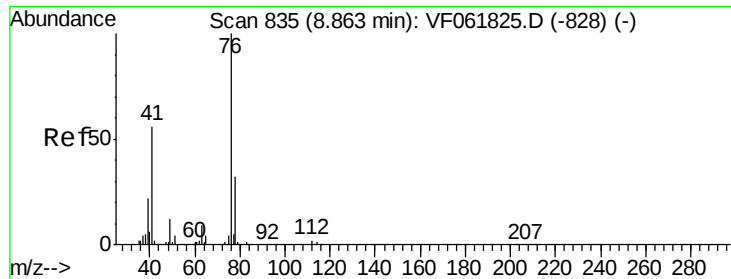


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.583 ug/l

RT: 8.86 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

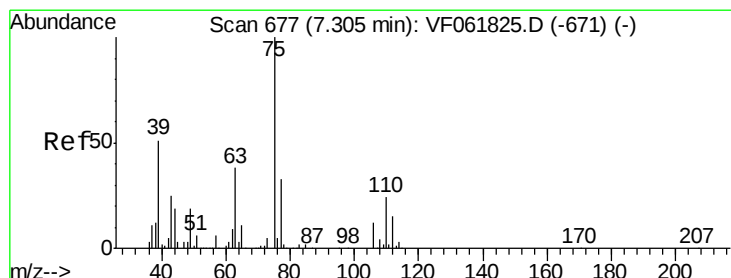
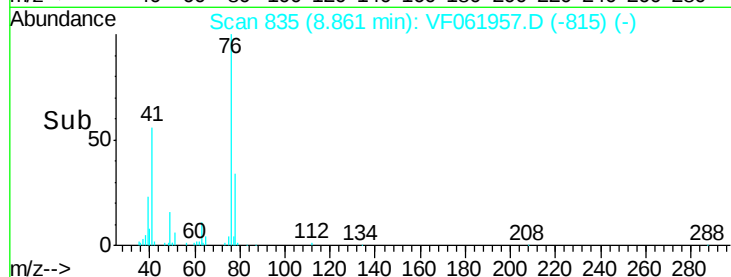
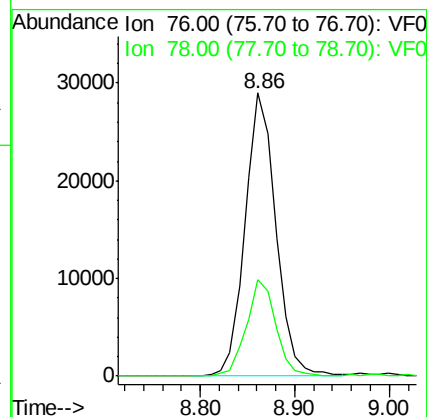
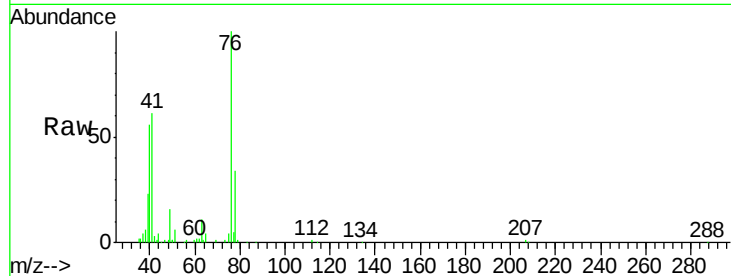
VF0315SBSD01

Tot Ion: 76 Resp: 65482

Ion Ratio Lower Upper

76 100

78 34.0 25.4 38.2



#58

2-Chloroethyl Vinyl ether

Concen: 121.808 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061957.D

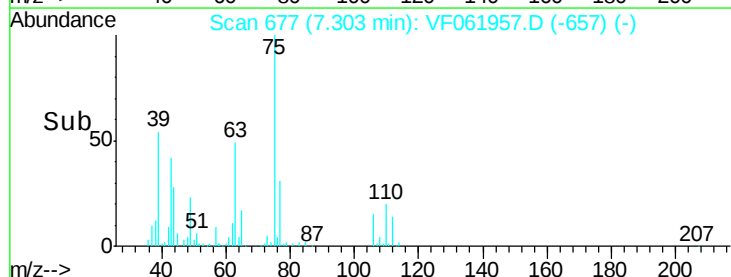
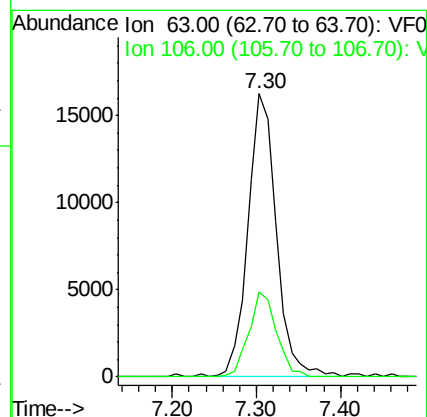
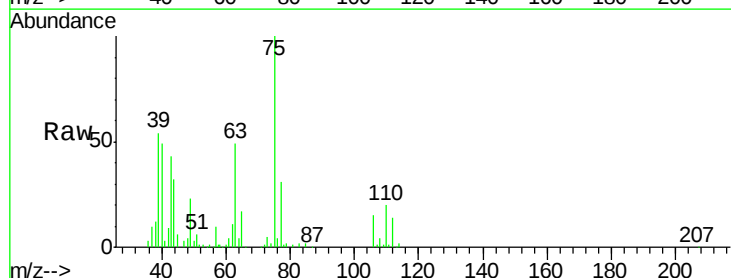
Acq: 15 Mar 2019 13:19

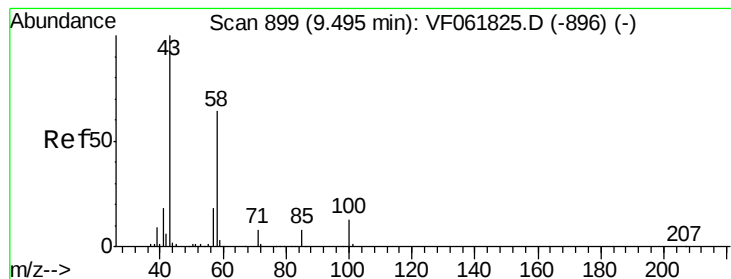
Tgt Ion: 63 Resp: 38503

Ion Ratio Lower Upper

63 100

106 29.9 24.3 36.5





#59

2-Hexanone

Concen: 114.805 ug/l

RT: 9.50 min Scan# 900

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

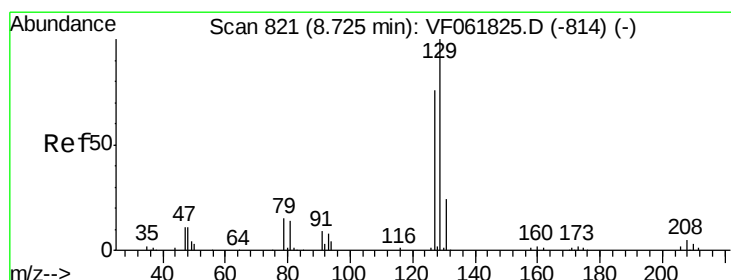
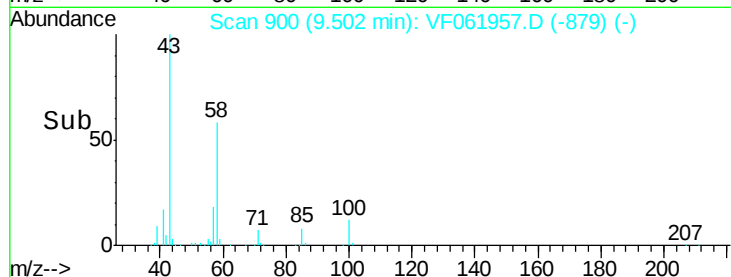
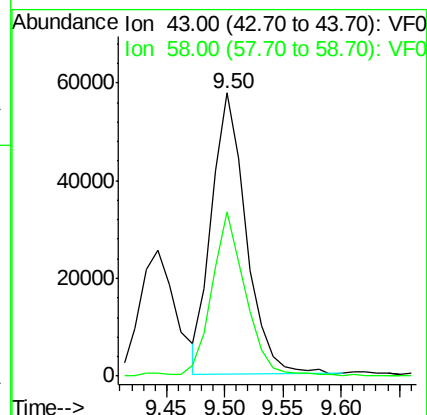
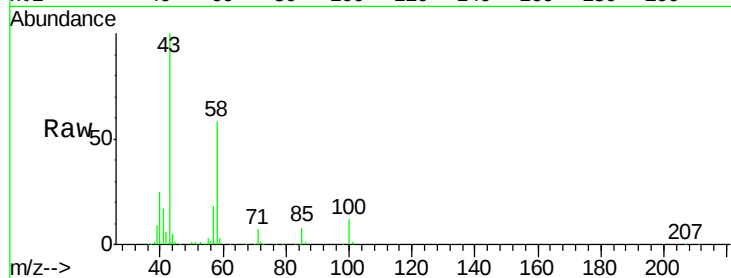
VF0315SBSD01

Tot Ion: 43 Resp: 117860

Ion Ratio Lower Upper

43 100

58 57.9 28.8 86.4



#60

Dibromochloromethane

Concen: 22.265 ug/l

RT: 8.72 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF061957.D

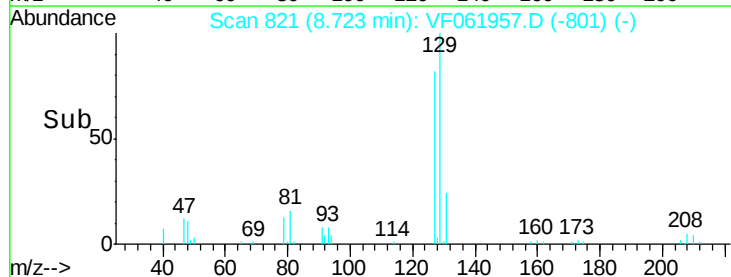
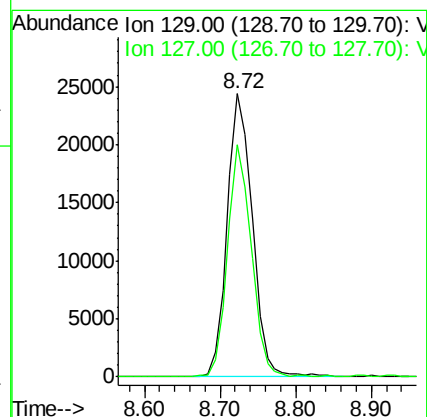
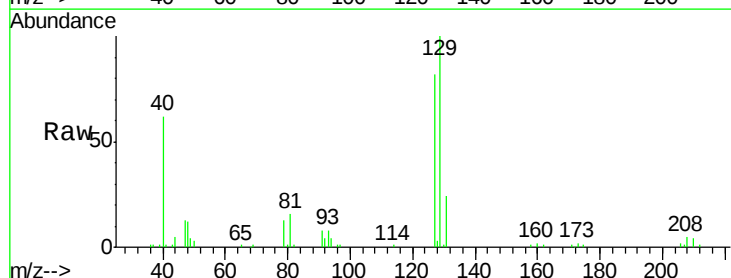
Acq: 15 Mar 2019 13:19

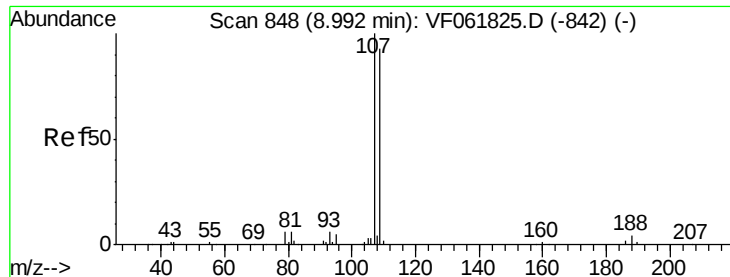
Tgt Ion: 129 Resp: 56264

Ion Ratio Lower Upper

129 100

127 82.0 38.2 114.6





#61

1,2-Dibromoethane

Concen: 21.906 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

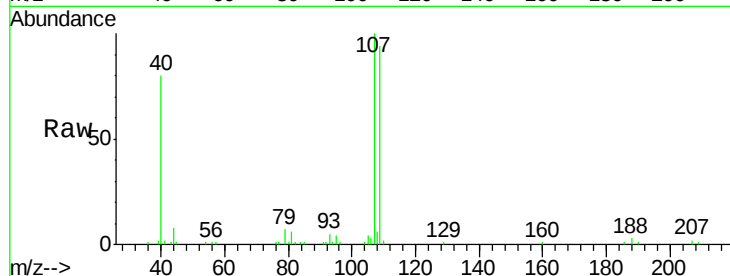
VF0315SBS01

Tot Ion:107 Resp: 42712

Ion Ratio Lower Upper

107 100

109 94.3 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.00

20000

15000

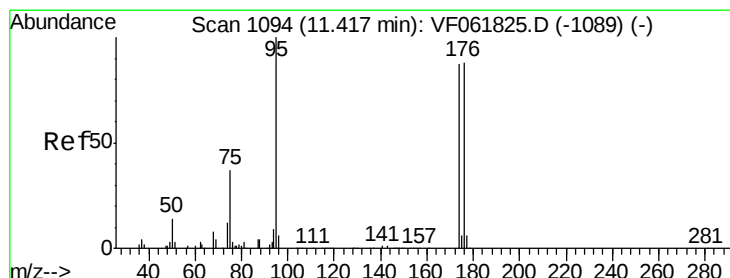
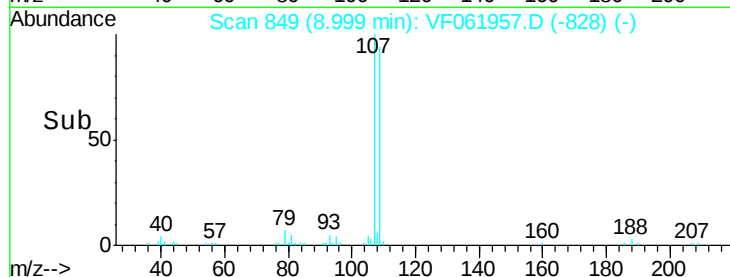
10000

5000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 50.110 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

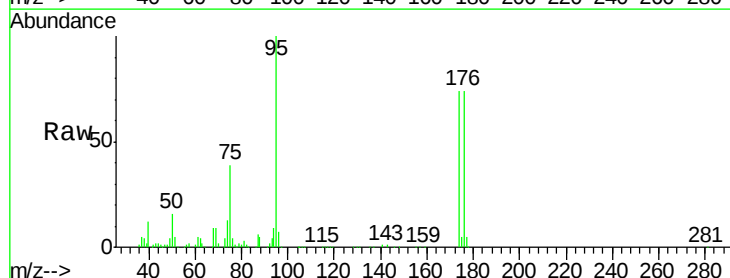
Tgt Ion: 95 Resp: 171537

Ion Ratio Lower Upper

95 100

174 73.6 0.0 174.0

176 74.4 0.0 175.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.42

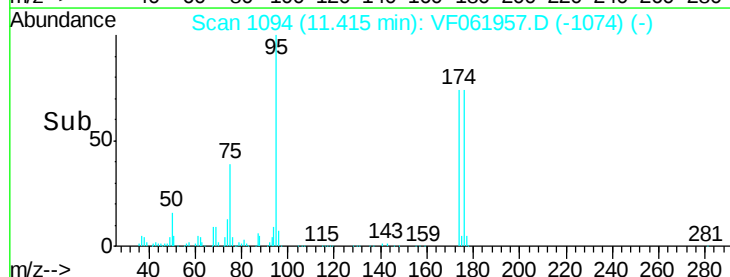
100000

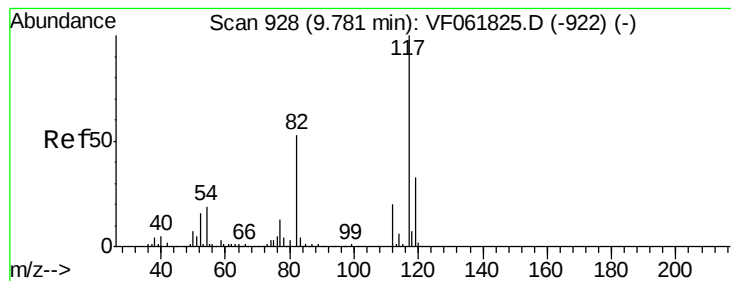
50000

0

Time-->

11.30 11.40 11.50 11.60





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

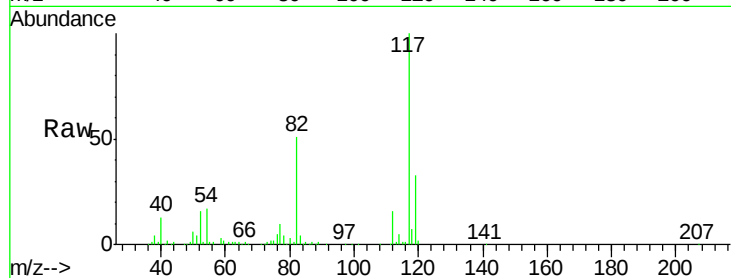
Tot Ion:117 Resp: 365685

Ion Ratio Lower Upper

117 100

82 51.5 42.6 63.8

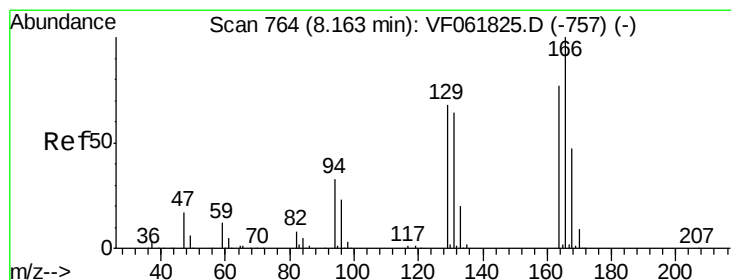
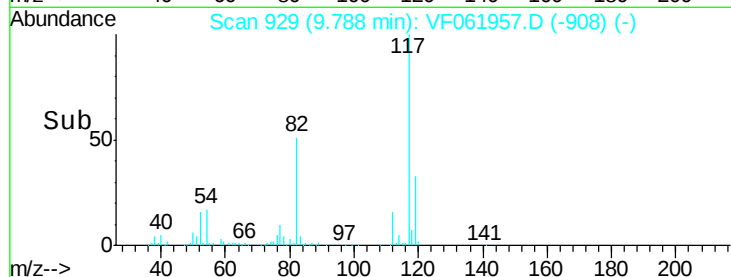
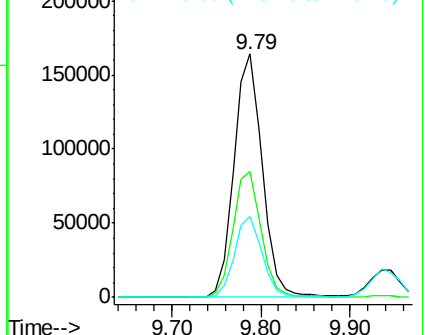
119 33.2 26.0 39.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 22.776 ug/l

RT: 8.16 min Scan# 764

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:164 Resp: 63997

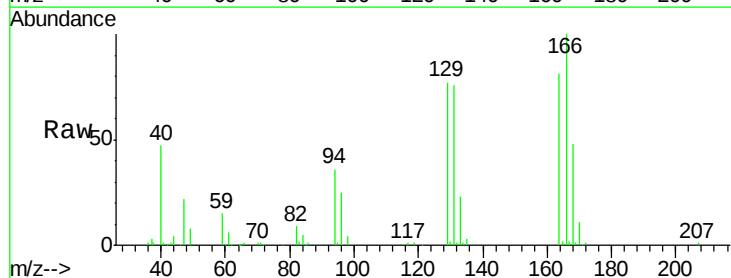
Ion Ratio Lower Upper

164 100

166 123.1 103.4 155.0

129 94.4 69.9 104.9

131 93.3 66.4 99.6

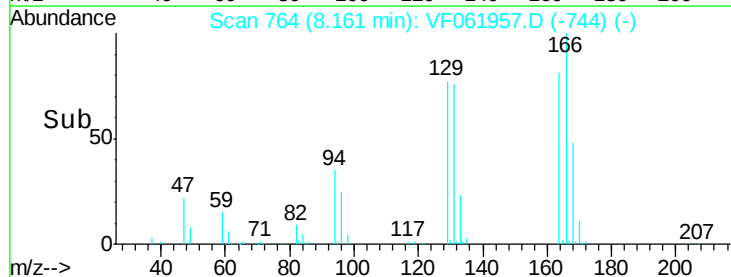
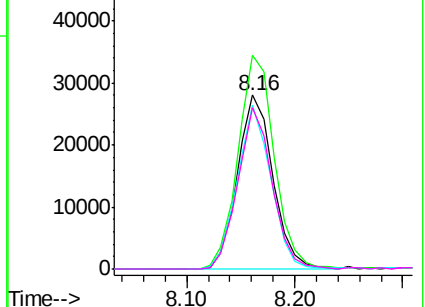


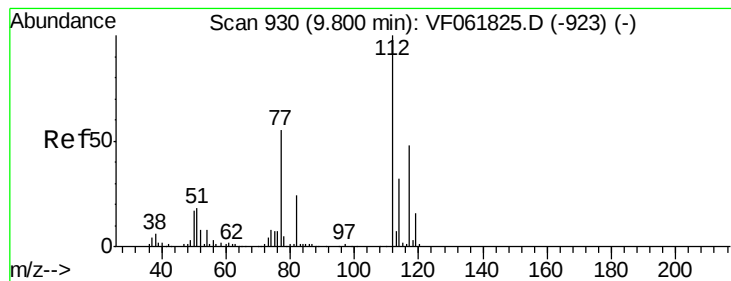
Abundance Ion 163.85 (163.55 to 164.55): V

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: 22.047 ug/l

RT: 9.81 min Scan# 931

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

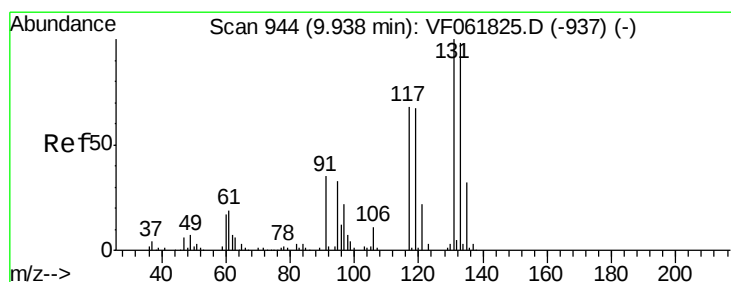
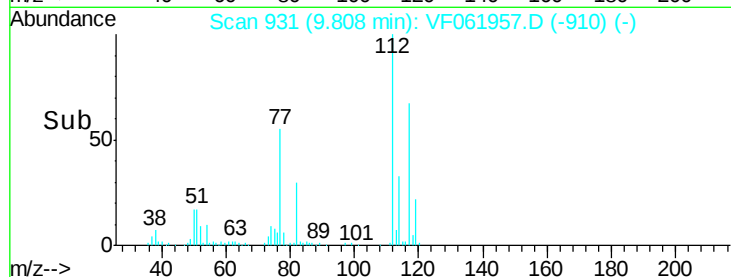
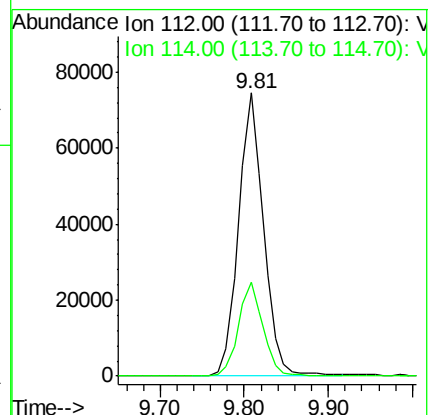
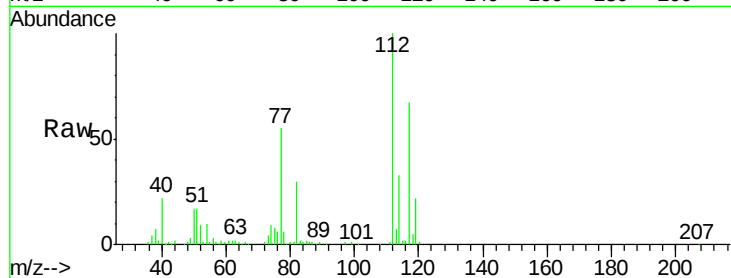
VF0315SBS01

Tot Ion:112 Resp: 154894

Ion Ratio Lower Upper

112 100

114 33.2 25.5 38.3



#66

1,1,1,2-Tetrachloroethane

Concen: 21.747 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

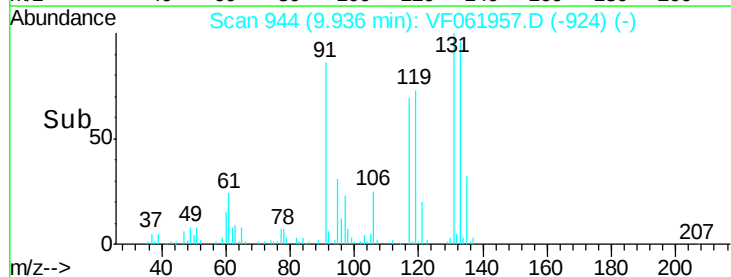
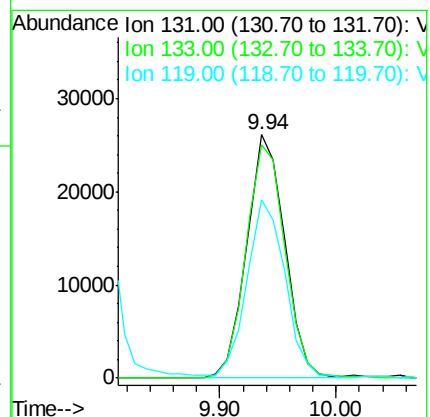
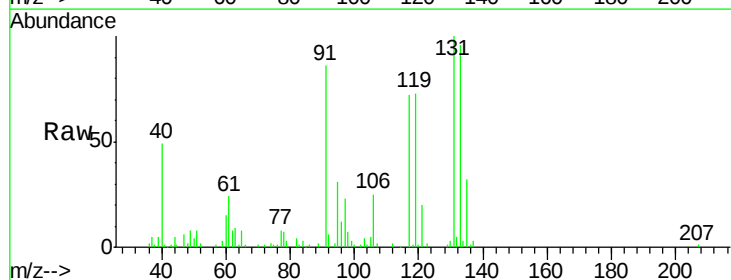
Tgt Ion:131 Resp: 59195

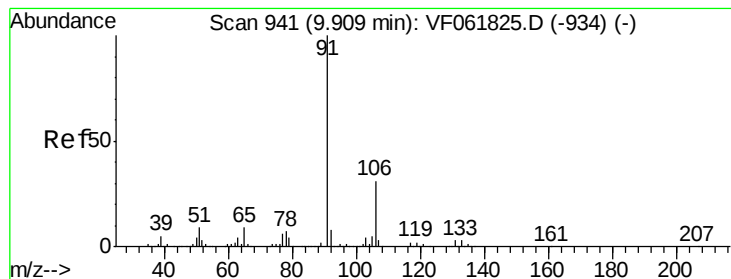
Ion Ratio Lower Upper

131 100

133 95.7 48.9 146.7

119 73.4 33.6 100.8





#67

Ethyl Benzene

Concen: 22.621 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

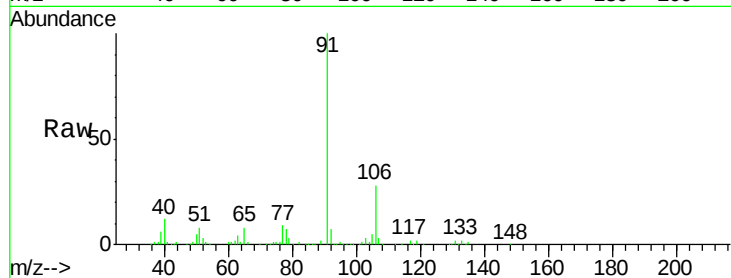
VF0315SBS01

Tot Ion: 91 Resp: 263416

Ion Ratio Lower Upper

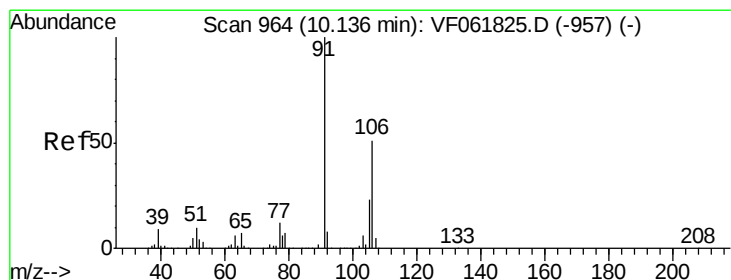
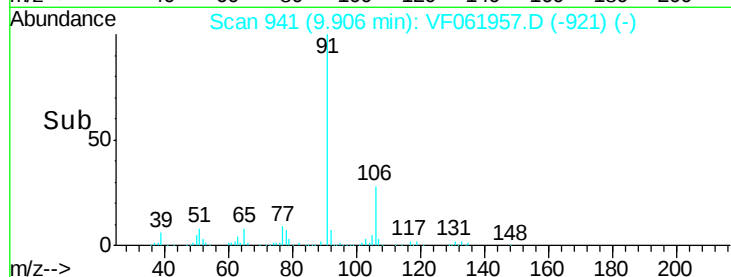
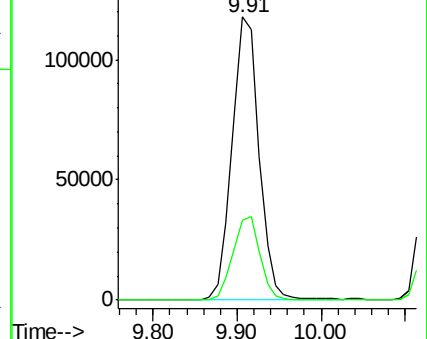
91 100

106 28.2 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 45.952 ug/l

RT: 10.14 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF061957.D

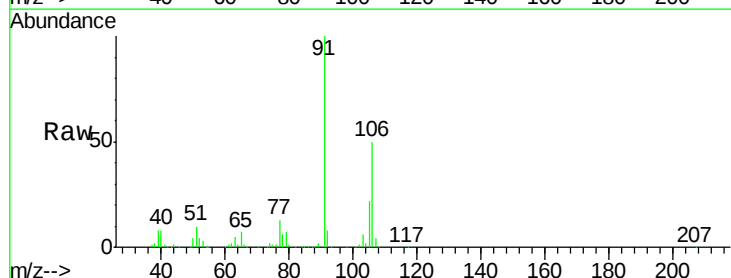
Acq: 15 Mar 2019 13:19

Tgt Ion: 106 Resp: 204987

Ion Ratio Lower Upper

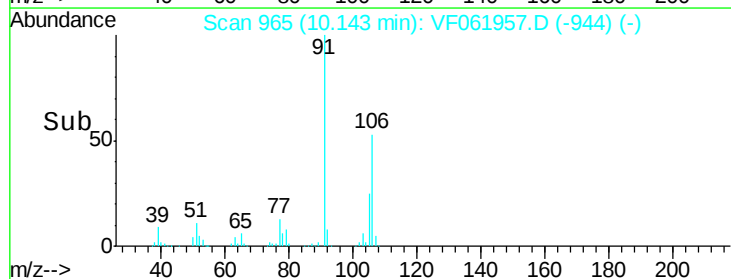
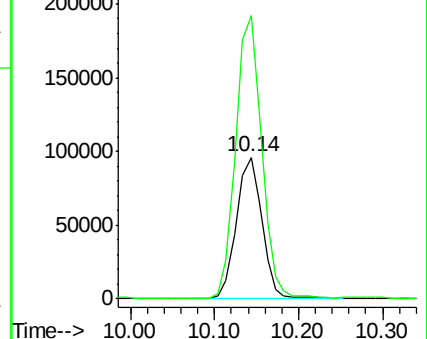
106 100

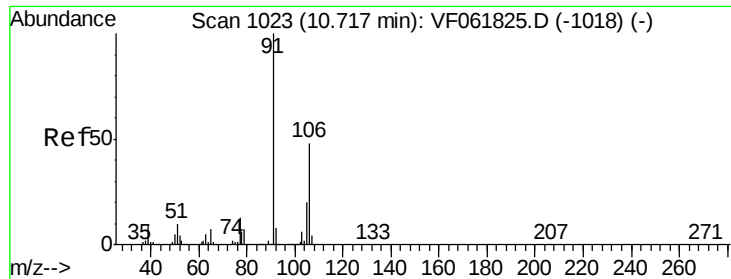
91 199.9 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

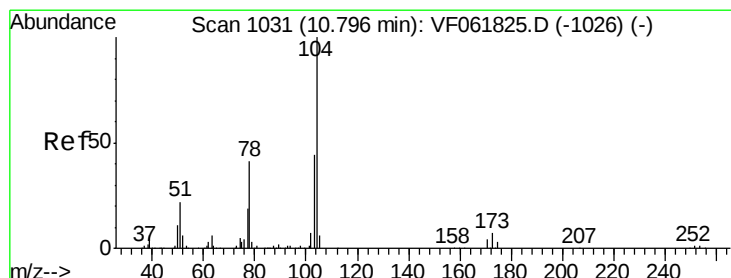
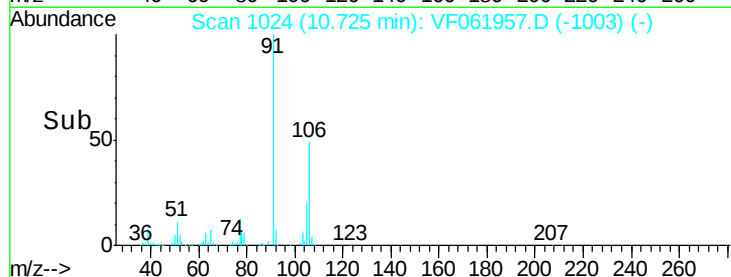
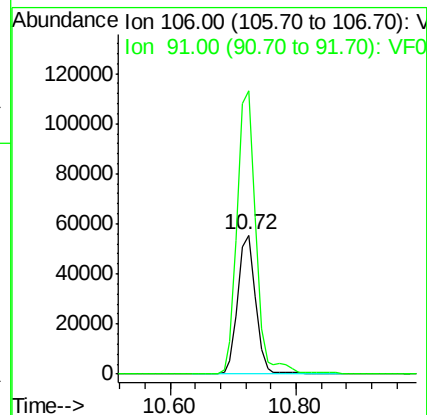
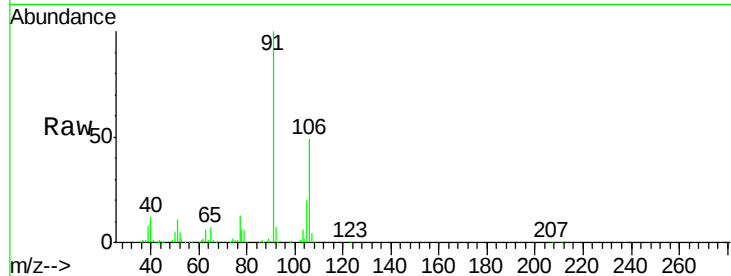




#69
o-Xylene
Concen: 22.646 ug/l
RT: 10.72 min Scan# 1024
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

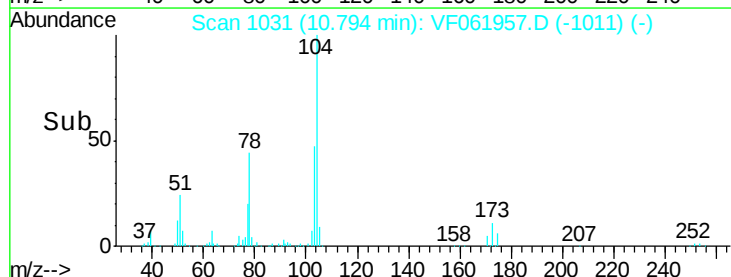
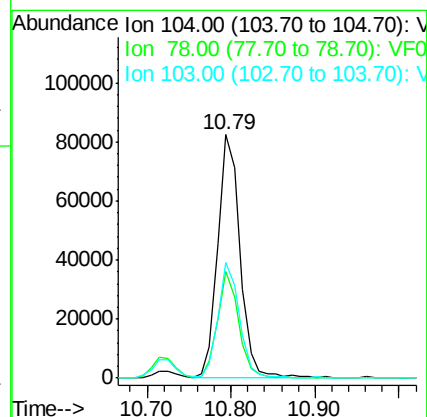
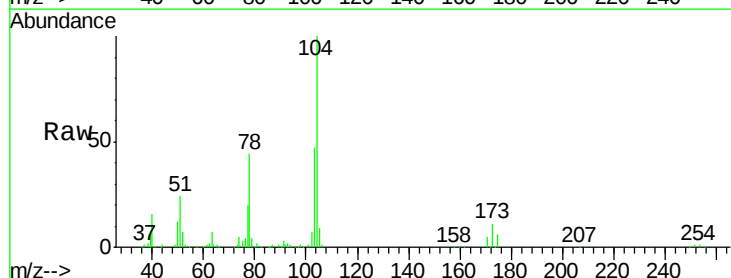
Instrument :
MSVOA_F
ClientSampleId :
VF0315SBSD01

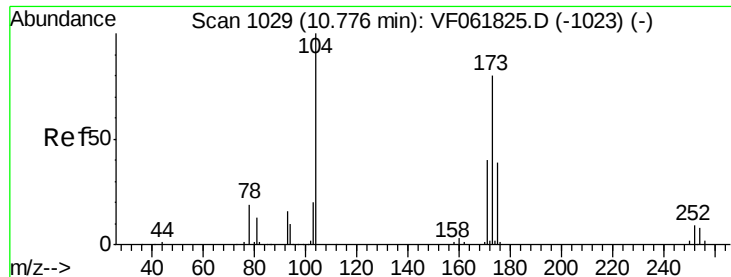
Tot Ion:106 Resp: 108781
Ion Ratio Lower Upper
106 100
91 203.8 103.5 310.3



#70
Styrene
Concen: 22.403 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion:104 Resp: 151446
Ion Ratio Lower Upper
104 100
78 43.6 33.3 49.9
103 47.4 35.4 53.0





#71

Bromoform

Concen: 21.248 ug/l

RT: 10.78 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

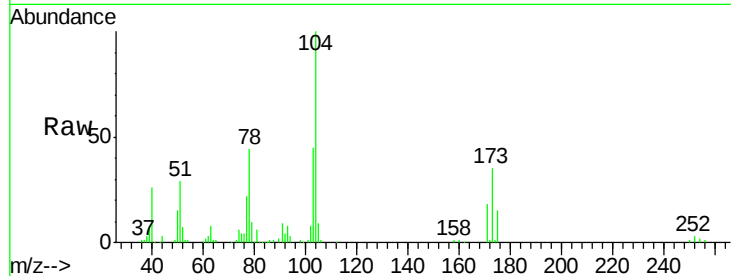
Tot Ion:173 Resp: 30568

Ion Ratio Lower Upper

173 100

175 41.7 24.5 73.5

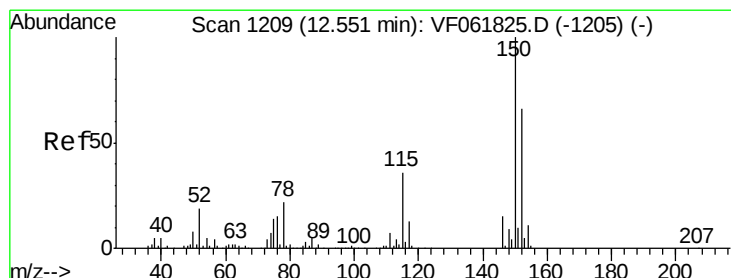
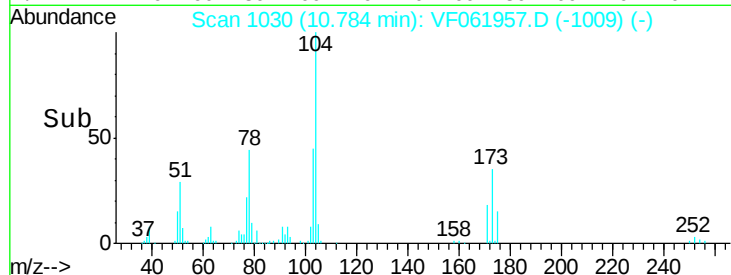
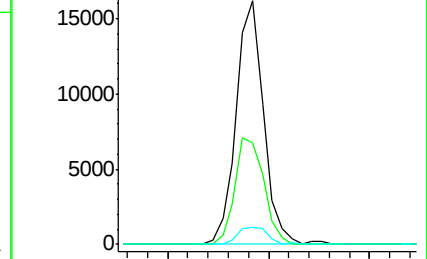
254 7.0 8.0 12.0#



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: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

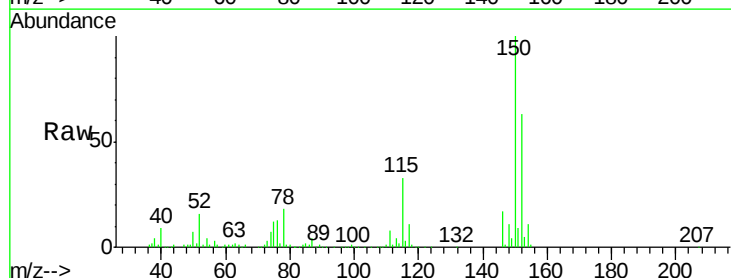
Tgt Ion:152 Resp: 199772

Ion Ratio Lower Upper

152 100

115 53.0 27.7 83.1

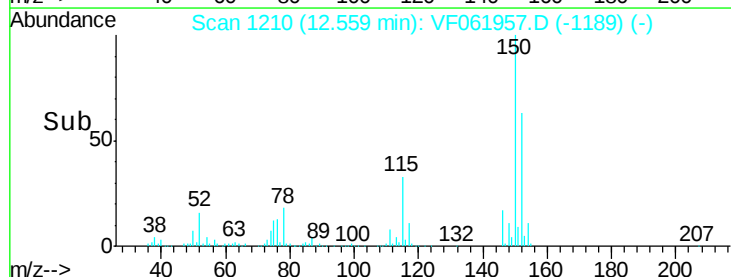
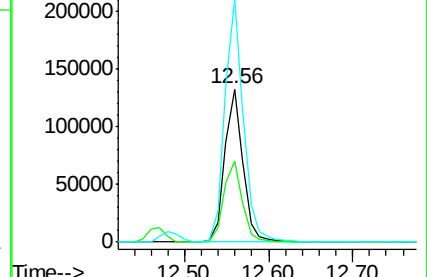
150 159.1 0.0 304.2

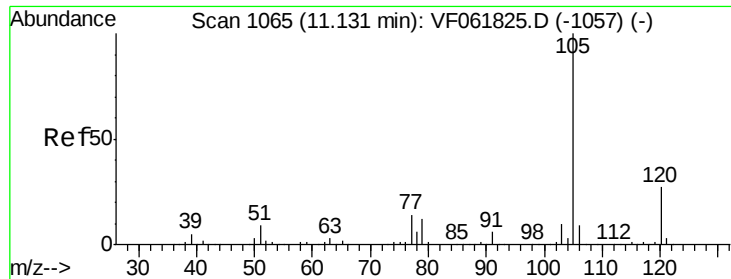


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.406 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

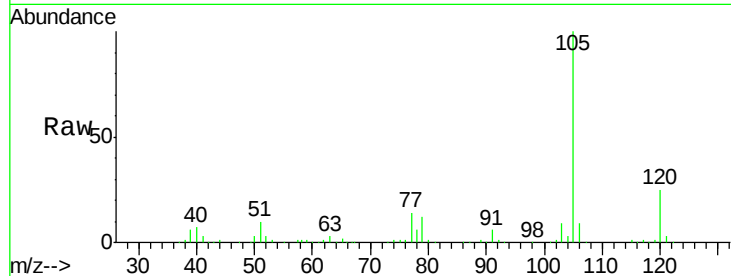
VF0315SBS01

Tot Ion:105 Resp: 308151

Ion Ratio Lower Upper

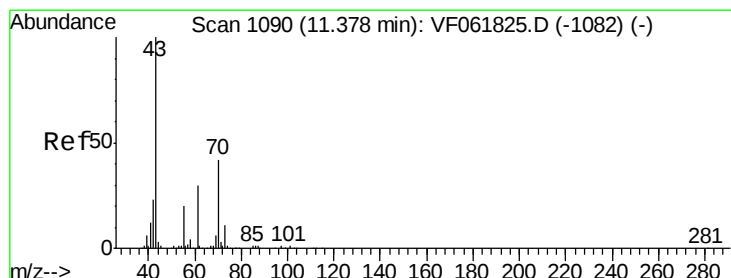
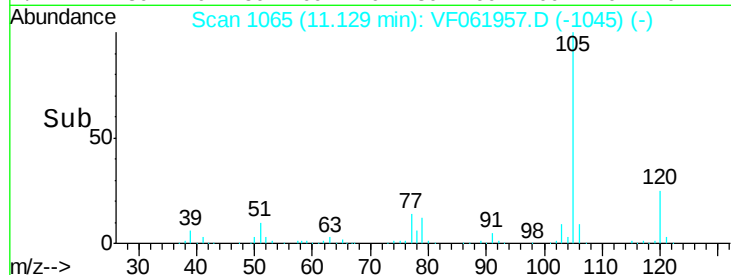
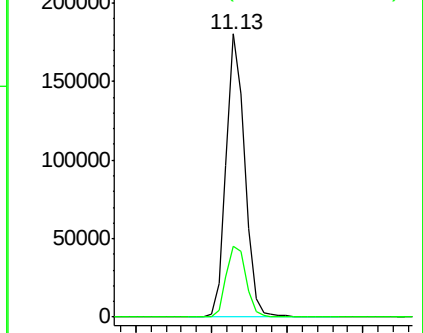
105 100

120 25.1 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.660 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion: 43 Resp: 71745

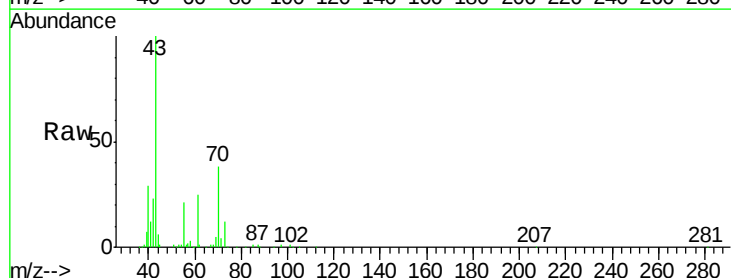
Ion Ratio Lower Upper

43 100

70 37.5 33.4 50.0

55 20.7 16.3 24.5

61 24.7 24.0 36.0

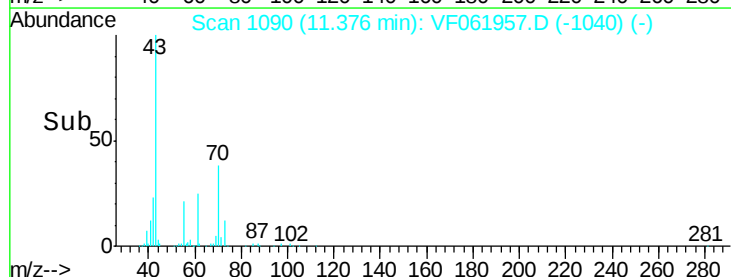
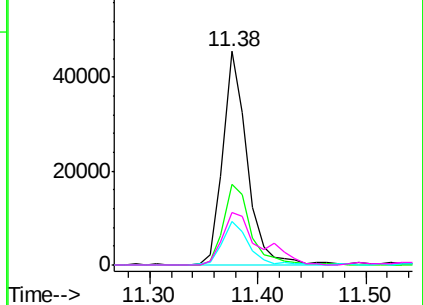


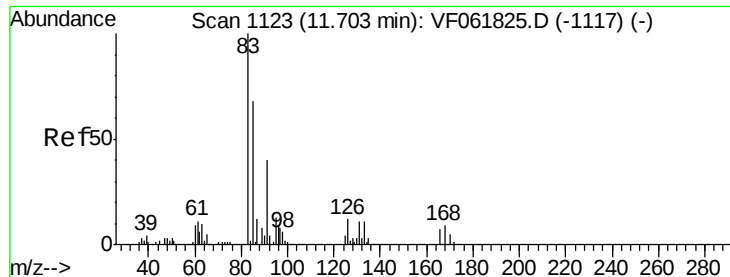
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.818 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

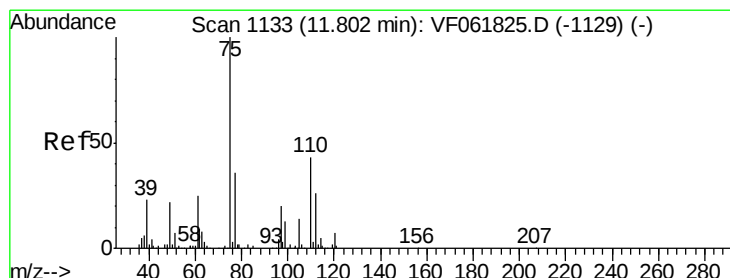
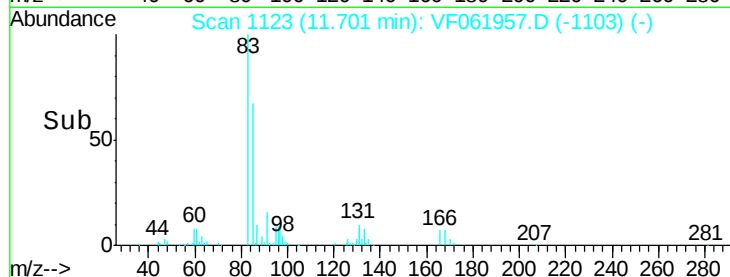
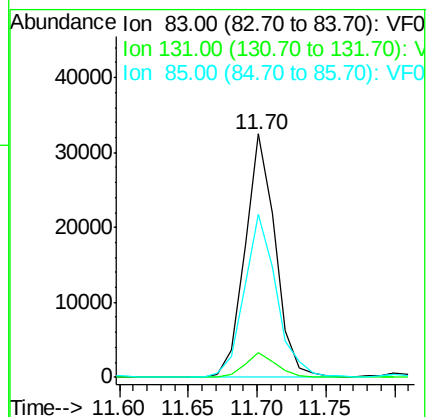
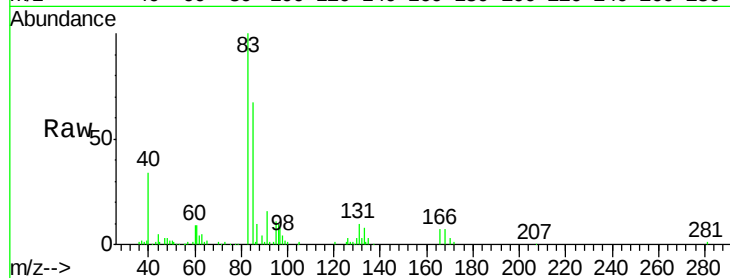
Tot Ion: 83 Resp: 49873

Ion Ratio Lower Upper

83 100

131 10.4 5.5 16.7

85 67.1 34.2 102.6



#76

1,2,3-Trichloropropane

Concen: 23.574 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VF061957.D

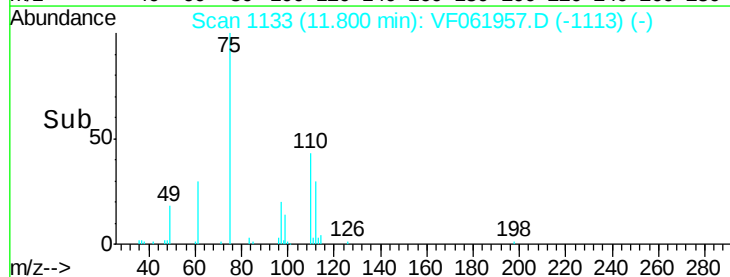
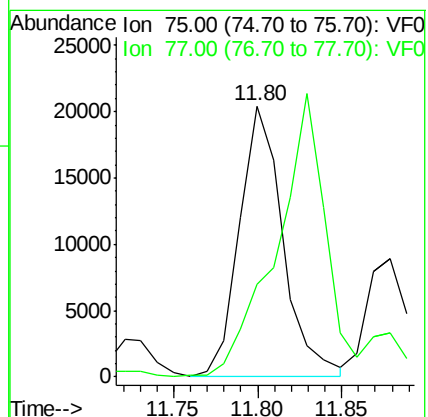
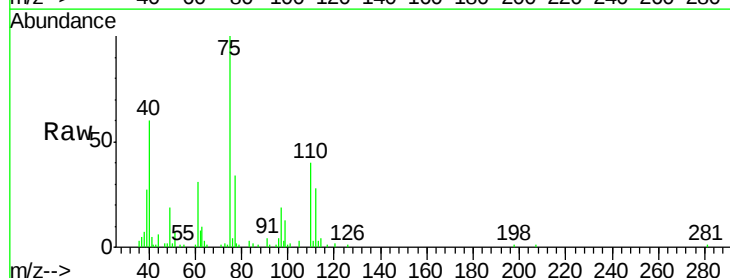
Acq: 15 Mar 2019 13:19

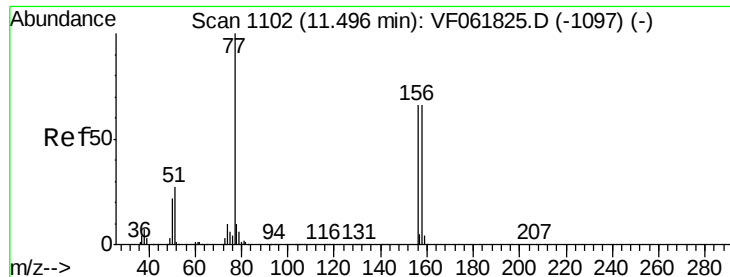
Tgt Ion: 75 Resp: 36778

Ion Ratio Lower Upper

75 100

77 34.2 18.1 54.4





#77

Bromobenzene

Concen: 21.752 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

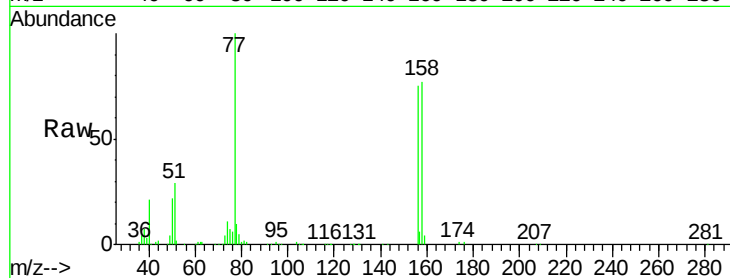
Tot Ion:156 Resp: 71999

Ion Ratio Lower Upper

156 100

77 132.6 75.7 227.1

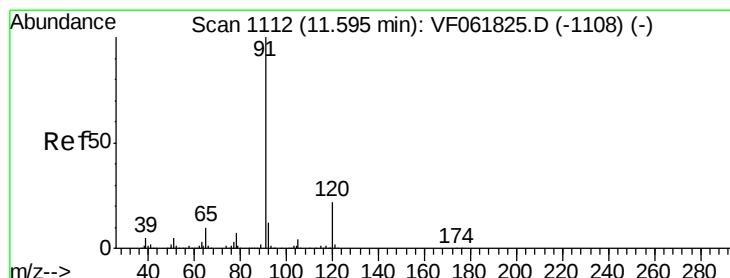
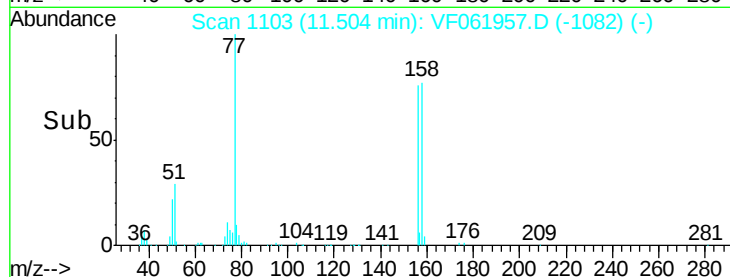
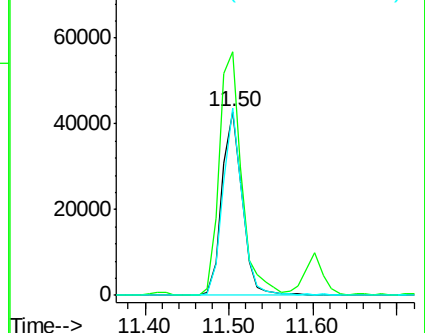
158 102.3 50.0 150.1



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: 23.481 ug/l

RT: 11.60 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF061957.D

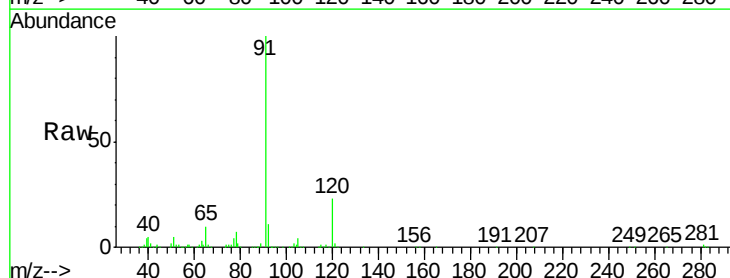
Acq: 15 Mar 2019 13:19

Tgt Ion: 91 Resp: 364698

Ion Ratio Lower Upper

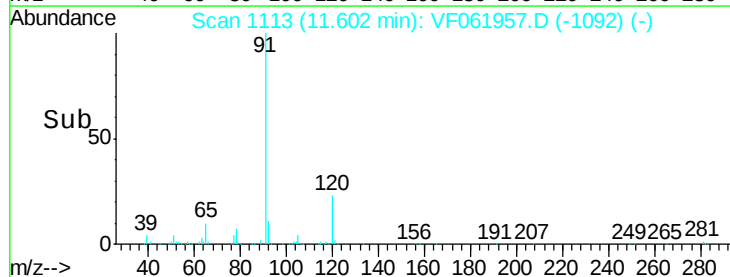
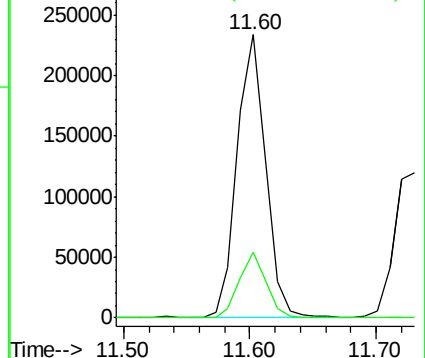
91 100

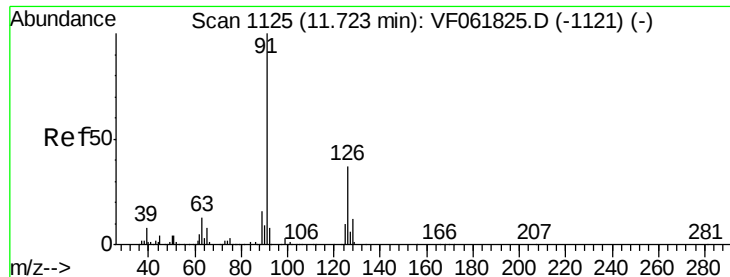
120 23.3 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.860 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

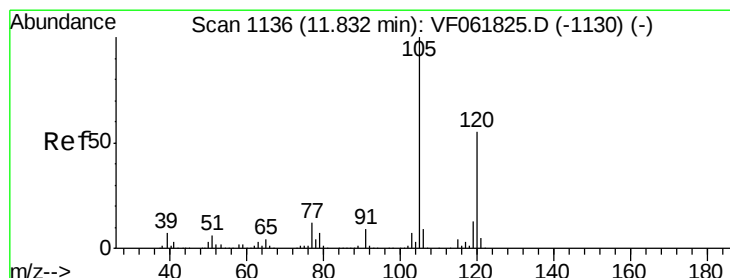
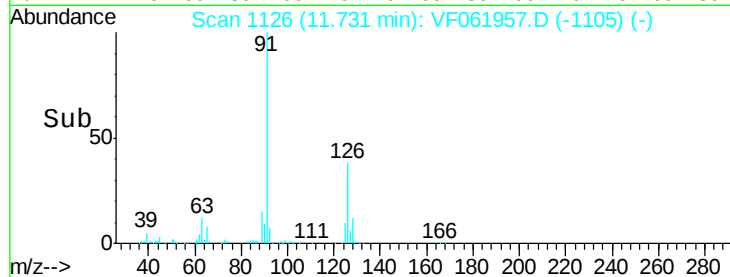
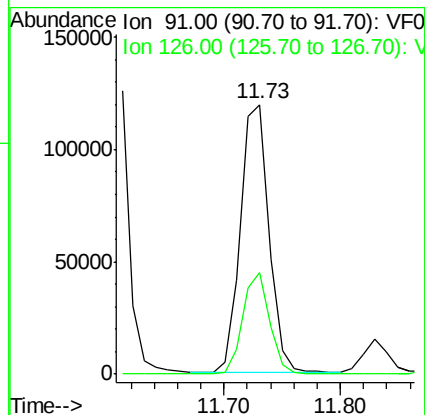
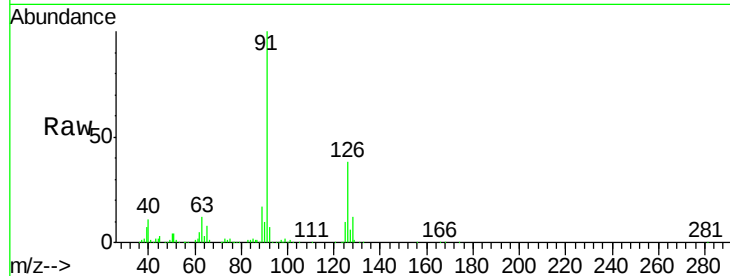
VF0315SBS01

Tot Ion: 91 Resp: 202988

Ion Ratio Lower Upper

91 100

126 37.8 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 22.855 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VF061957.D

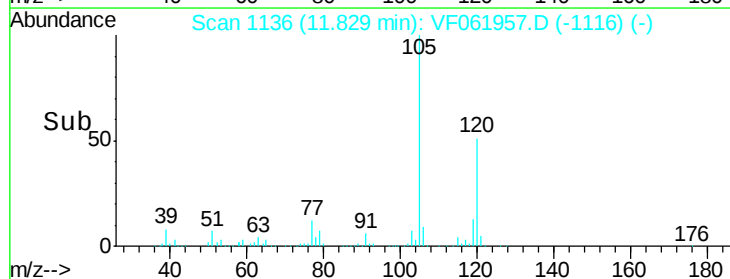
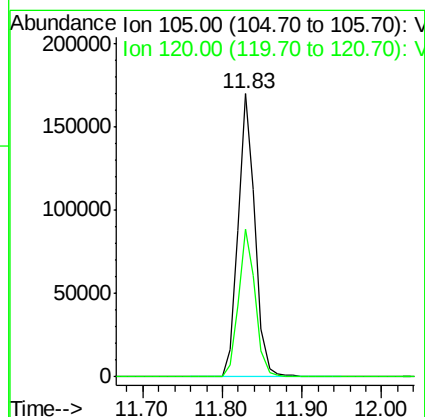
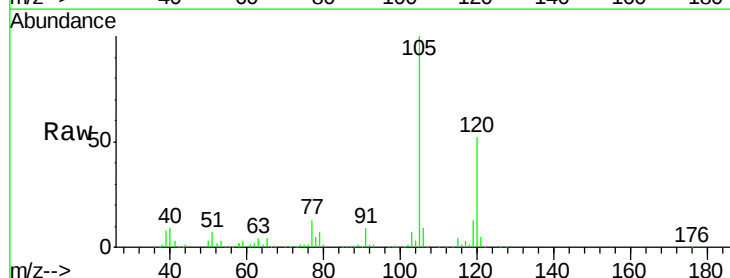
Acq: 15 Mar 2019 13:19

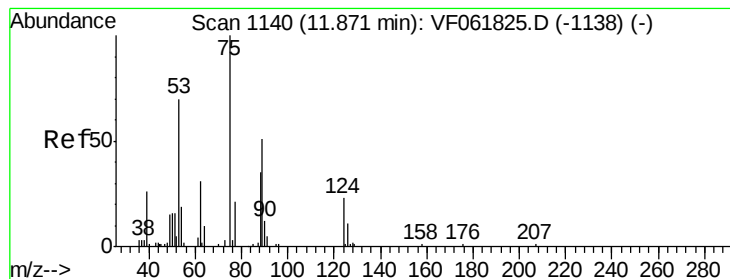
Tgt Ion:105 Resp: 252369

Ion Ratio Lower Upper

105 100

120 52.1 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 29.081 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

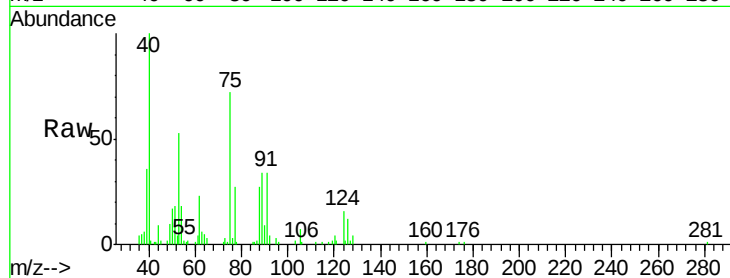
Tot Ion: 75 Resp: 20746

Ion Ratio Lower Upper

75 100

53 73.4 58.6 88.0

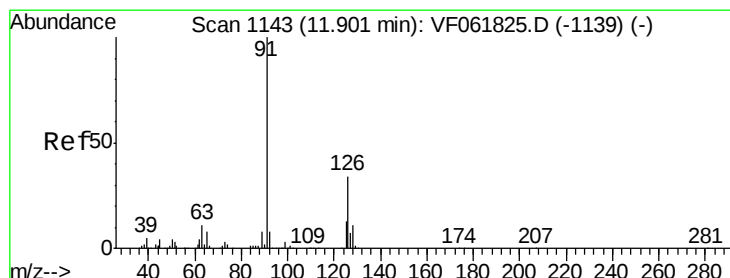
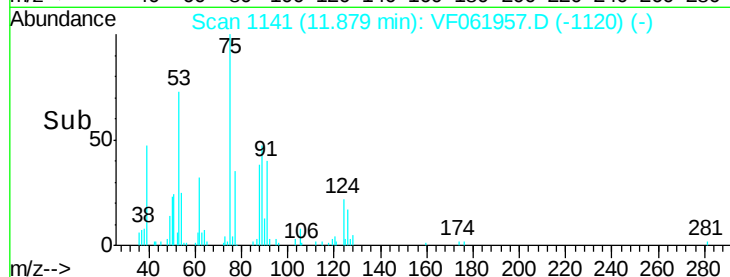
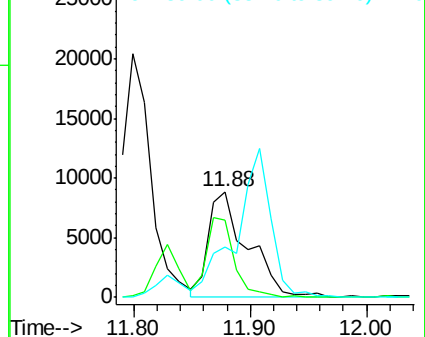
89 47.4 41.4 62.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 22.197 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF061957.D

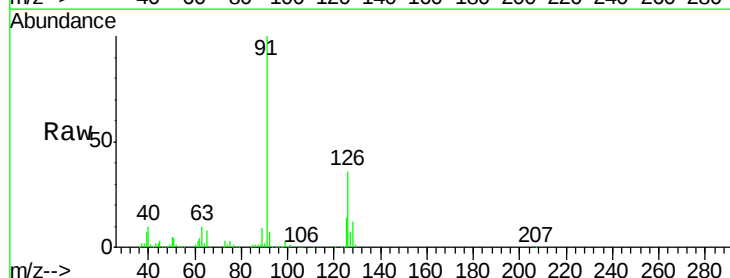
Acq: 15 Mar 2019 13:19

Tgt Ion: 91 Resp: 201605

Ion Ratio Lower Upper

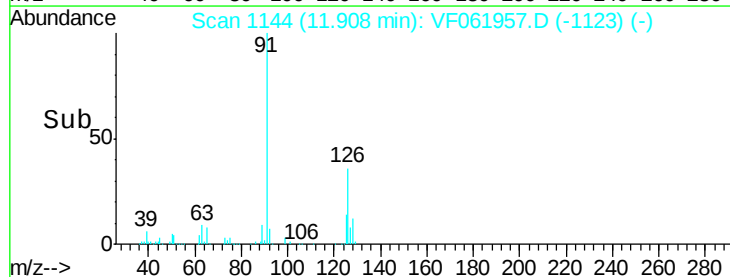
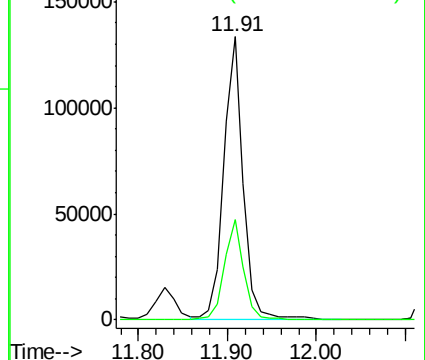
91 100

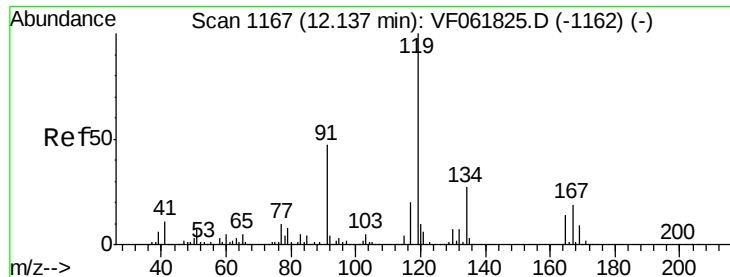
126 35.5 17.0 50.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

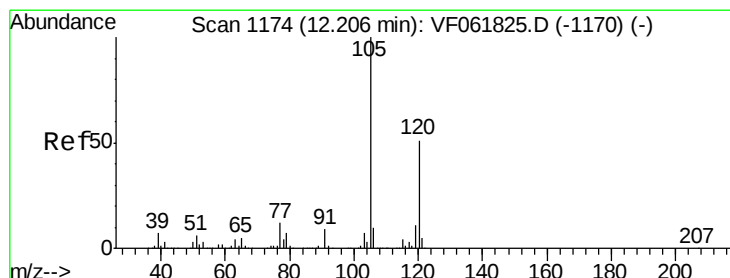
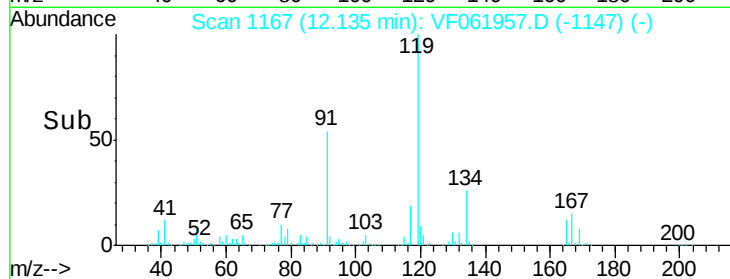
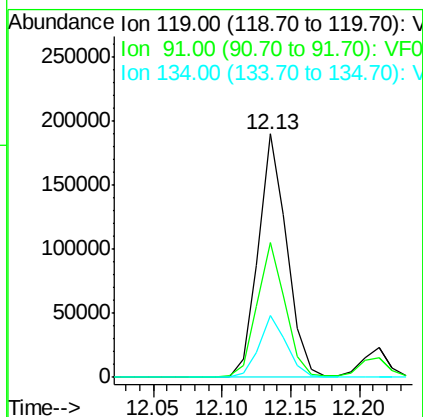
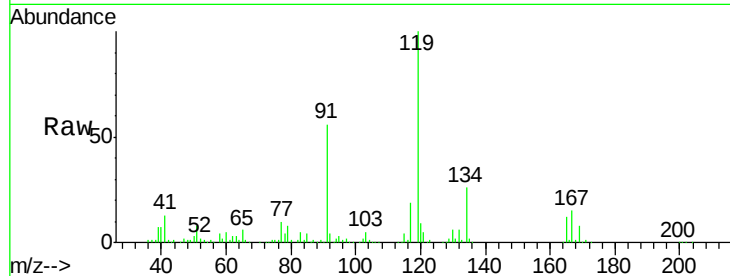




#83
tert-Butylbenzene
Concen: 23.636 ug/l
RT: 12.13 min Scan# 1167
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

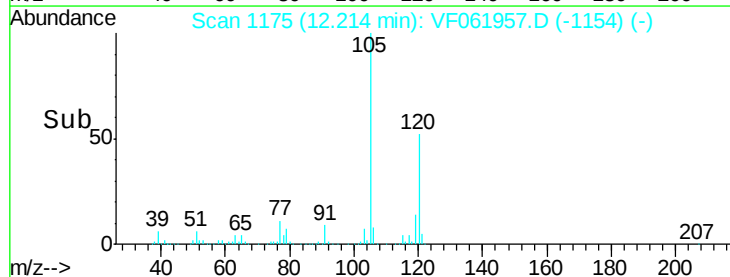
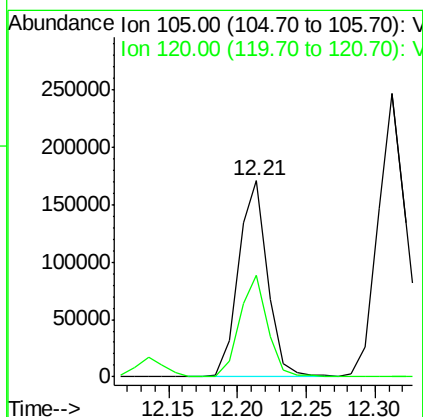
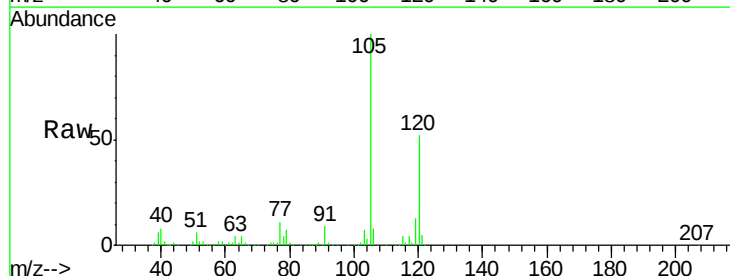
Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

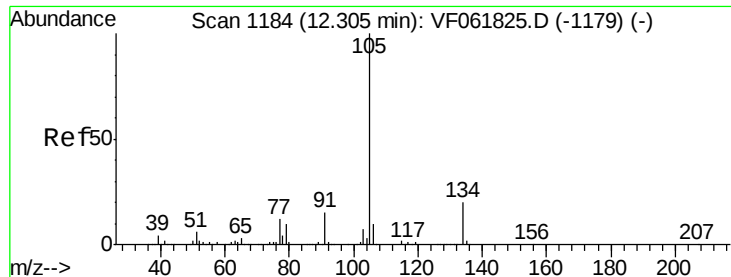
Tot Ion:119 Resp: 277136
Ion Ratio Lower Upper
119 100
91 55.5 23.5 70.5
134 25.5 13.3 39.8



#84
1,2,4-Trimethylbenzene
Concen: 23.165 ug/l
RT: 12.21 min Scan# 1175
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion:105 Resp: 250757
Ion Ratio Lower Upper
105 100
120 51.7 25.8 77.4





#85

sec-Butylbenzene

Concen: 23.133 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

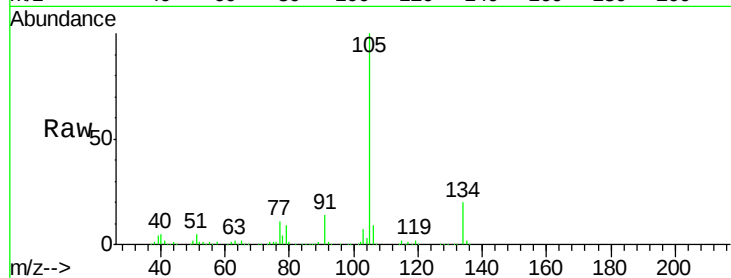
VF0315SBSD01

Tot Ion:105 Resp: 352971

Ion Ratio Lower Upper

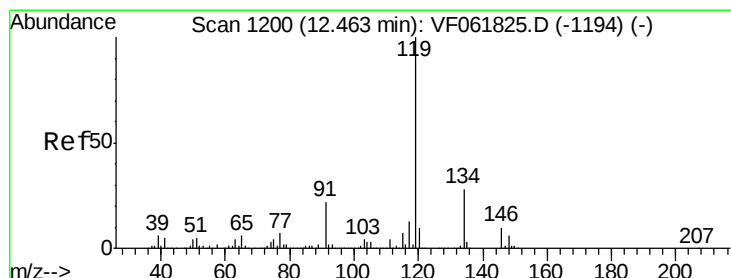
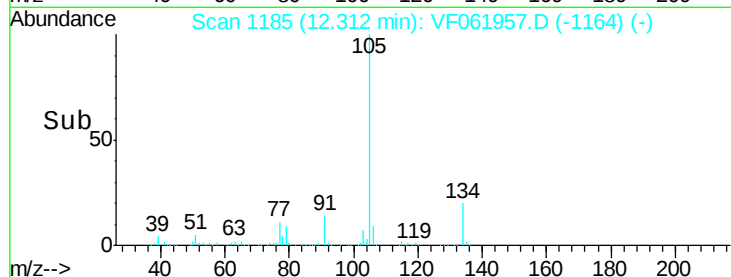
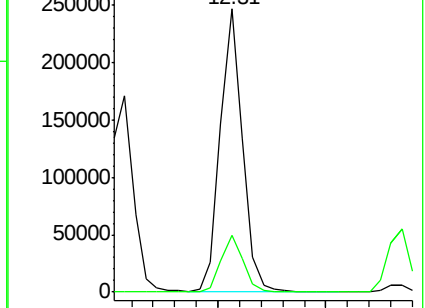
105 100

134 20.3 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.764 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

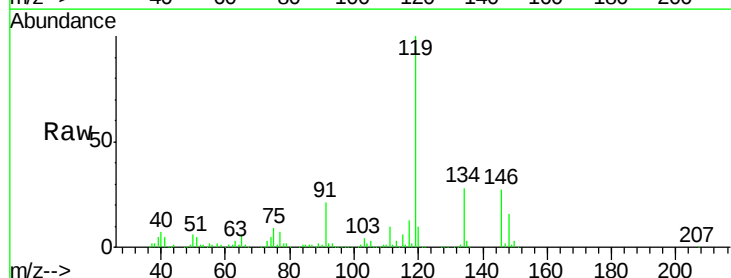
Tgt Ion:119 Resp: 295247

Ion Ratio Lower Upper

119 100

134 28.1 14.0 42.0

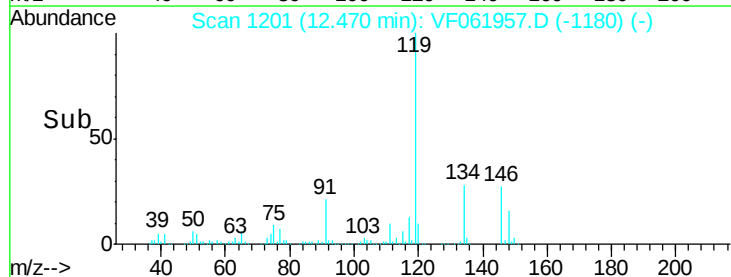
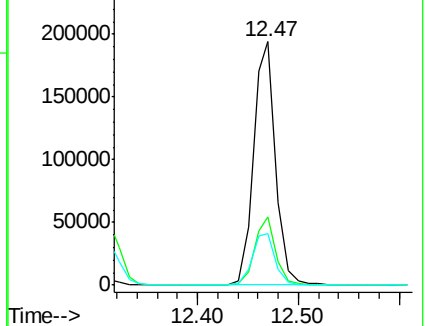
91 21.0 11.1 33.3

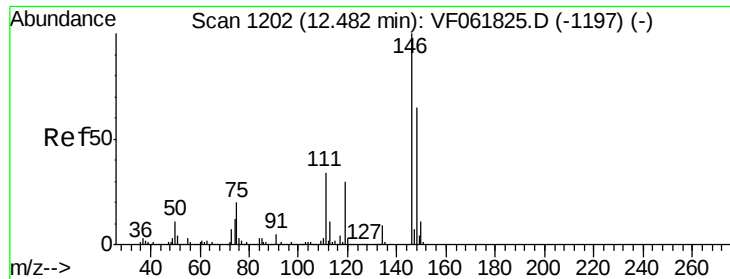


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

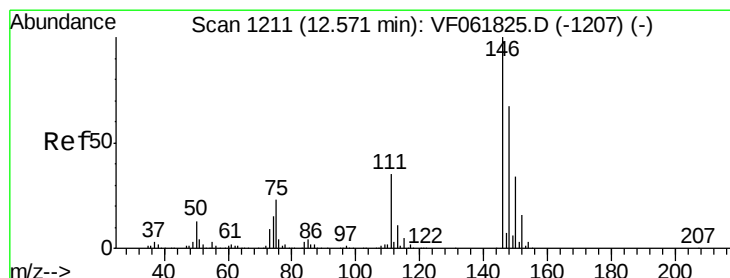
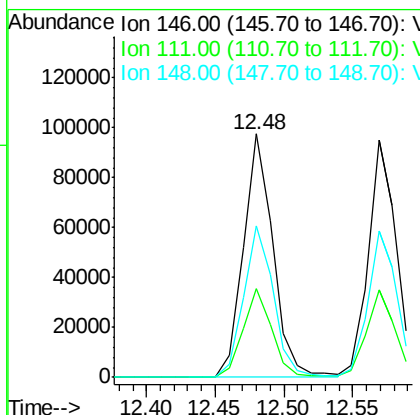
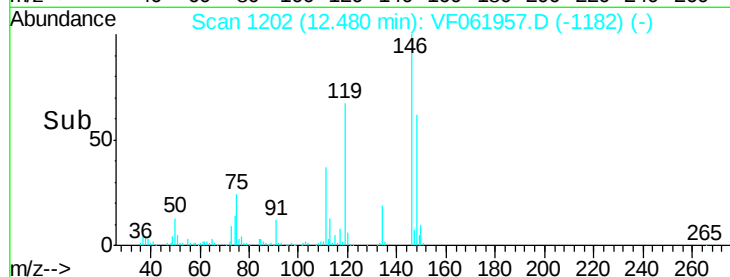
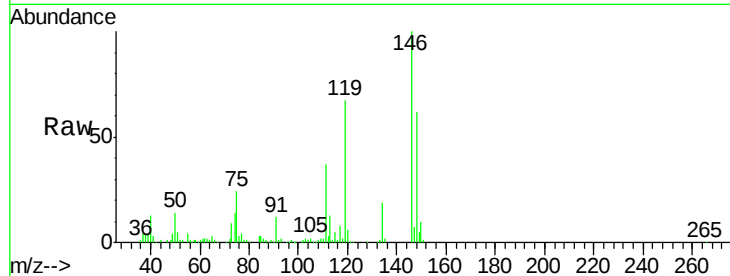




#87
 1,3-Dichlorobenzene
 Concen: 23.356 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

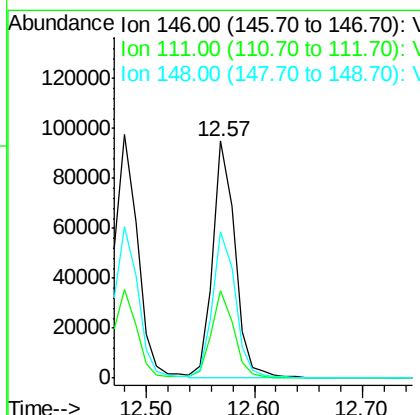
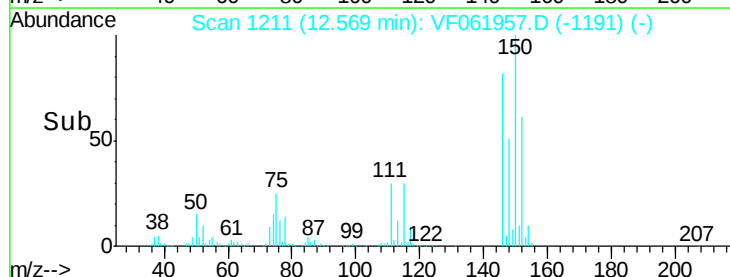
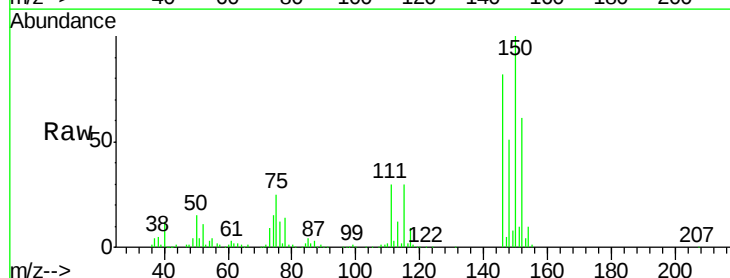
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBSD01

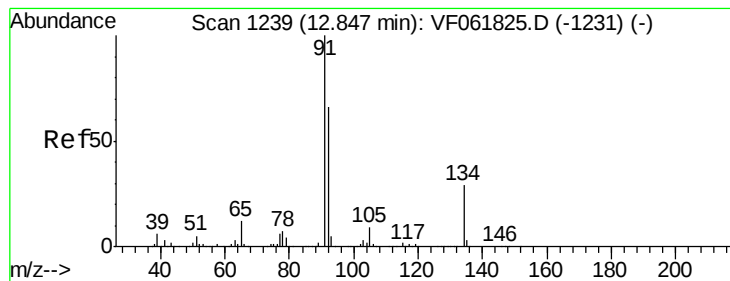
Tot Ion:146 Resp: 146794
 Ion Ratio Lower Upper
 146 100
 111 36.5 17.0 51.0
 148 62.0 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 22.574 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion:146 Resp: 136856
 Ion Ratio Lower Upper
 146 100
 111 36.7 17.6 52.9
 148 62.0 33.5 100.4





#89

n-Butylbenzene

Concen: 24.114 ug/l

RT: 12.85 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

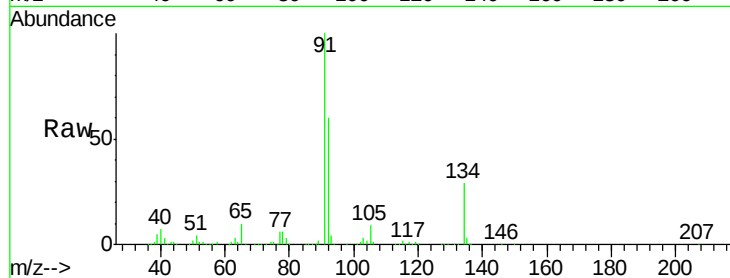
Tot Ion: 91 Resp: 298890

Ion Ratio Lower Upper

91 100

92 59.9 32.9 98.6

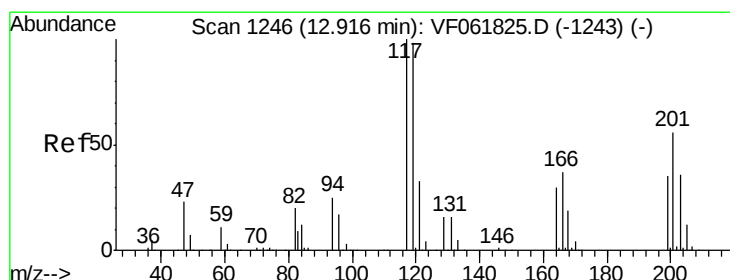
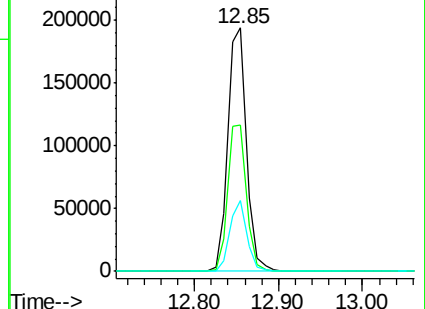
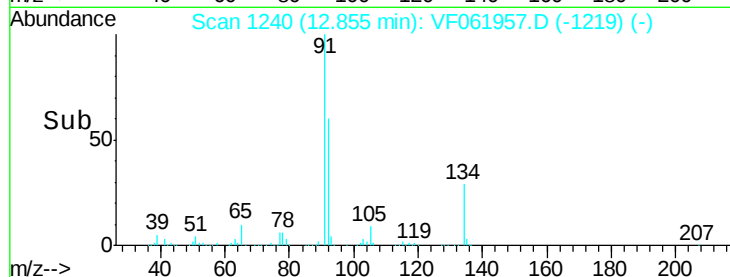
134 29.1 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 21.857 ug/l

RT: 12.92 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VF061957.D

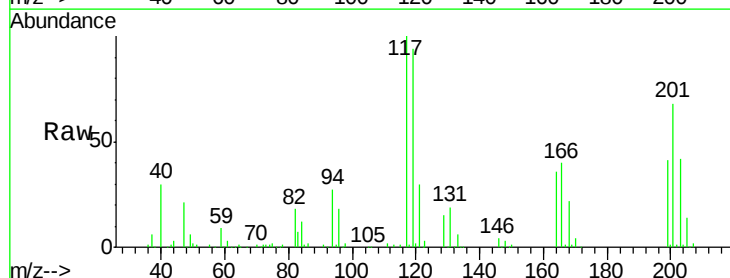
Acq: 15 Mar 2019 13:19

Tgt Ion: 117 Resp: 68235

Ion Ratio Lower Upper

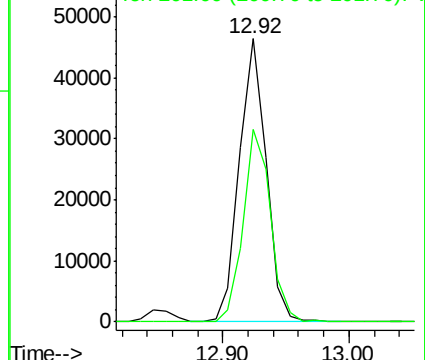
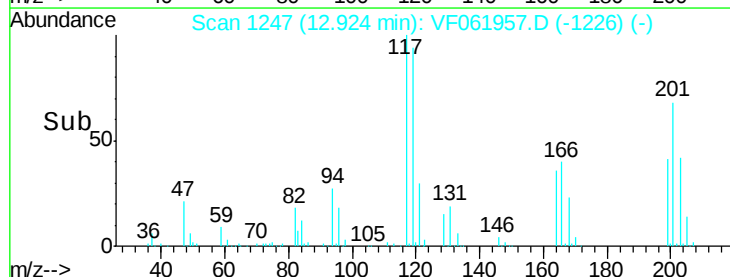
117 100

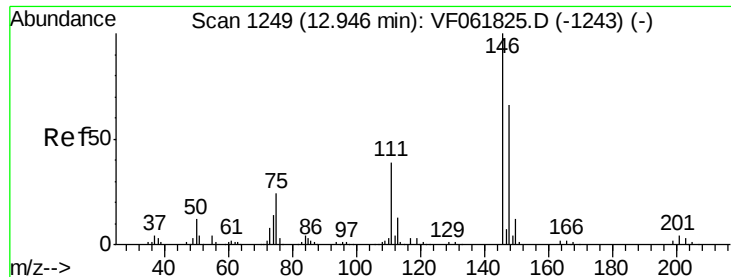
201 67.8 27.8 83.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

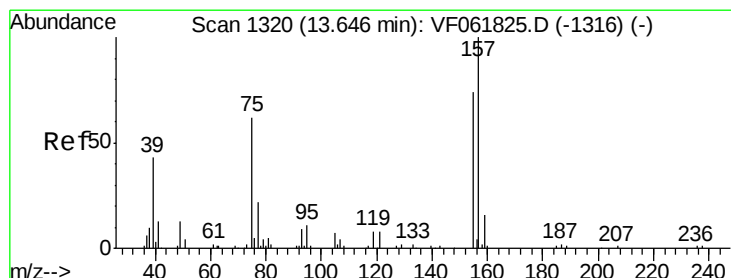
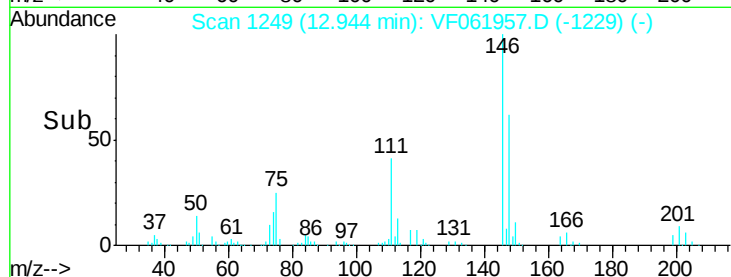
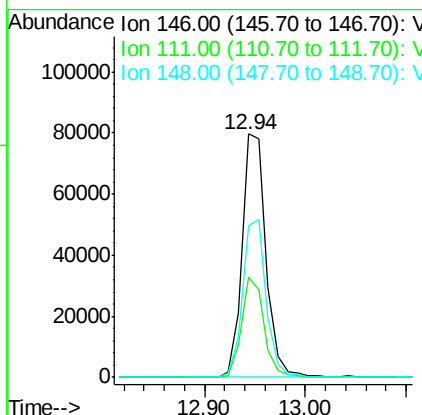
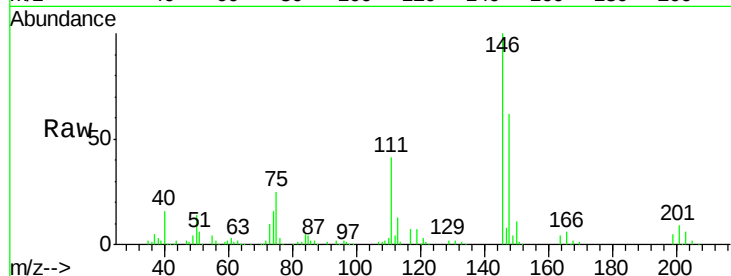




#91
 1,2-Dichlorobenzene
 Concen: 22.097 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

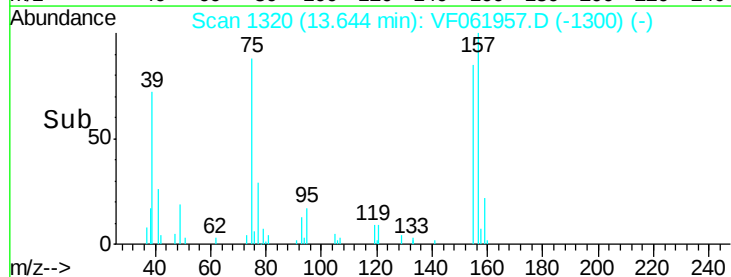
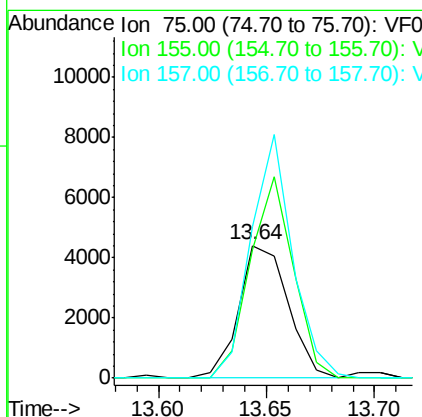
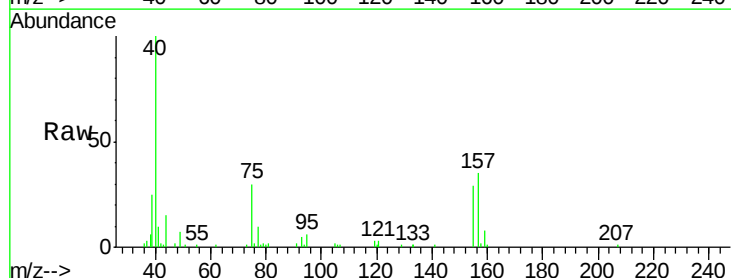
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

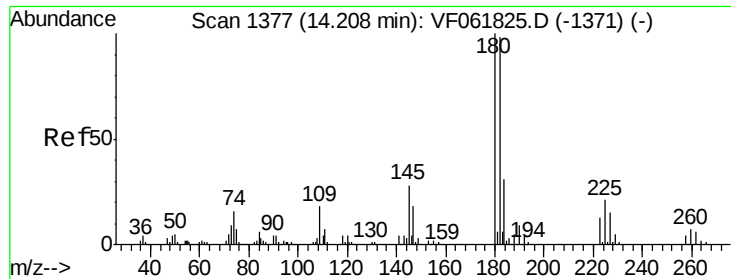
Tot Ion:146 Resp: 131580
 Ion Ratio Lower Upper
 146 100
 111 41.0 19.4 58.4
 148 62.0 33.0 98.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.090 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion: 75 Resp: 7007
 Ion Ratio Lower Upper
 75 100
 155 97.2 59.8 179.4
 157 114.1 81.2 243.4

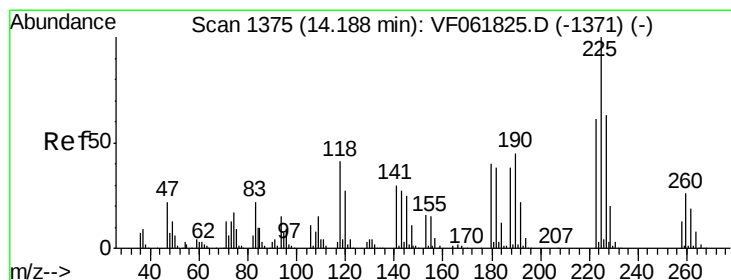
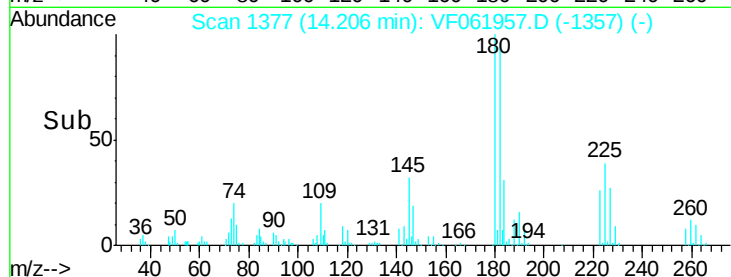
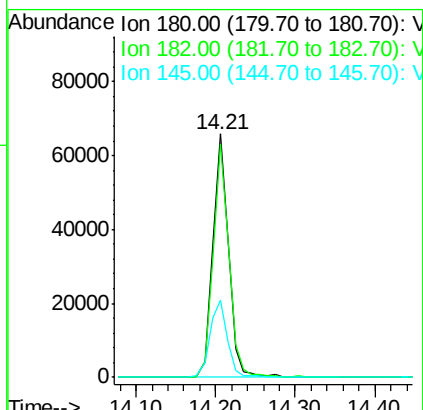
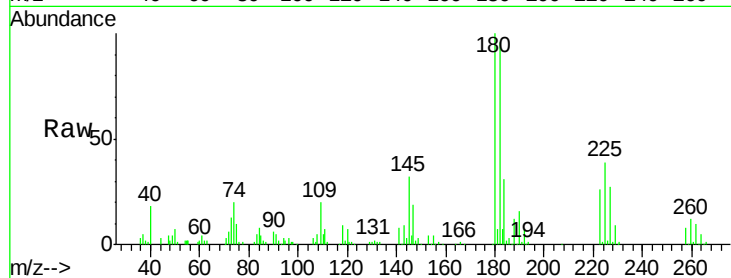




#93
 1,2,4-Trichlorobenzene
 Concen: 22.130 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

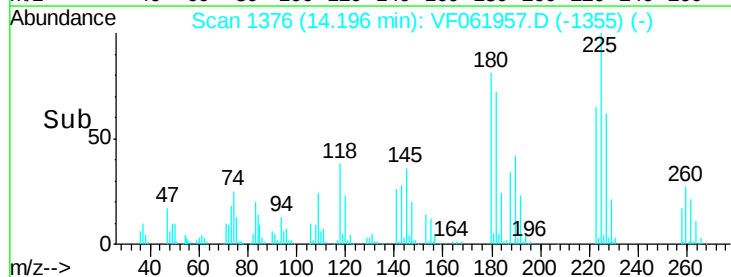
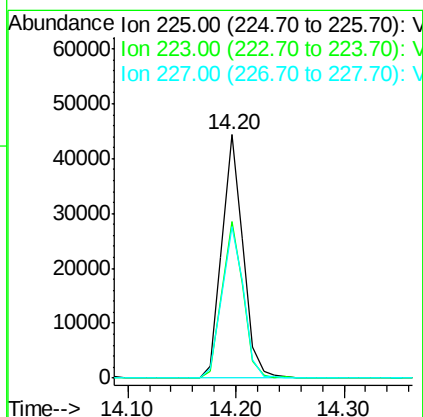
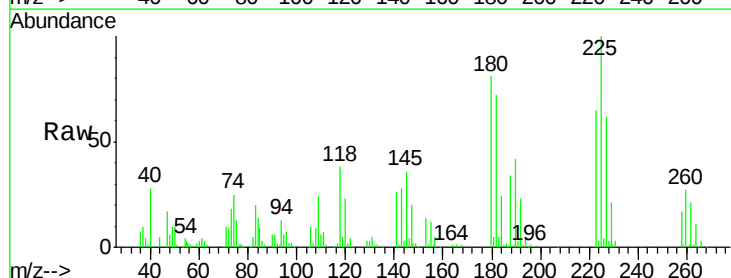
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

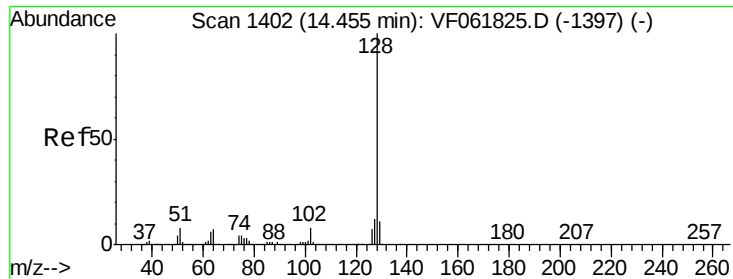
Tot Ion:180 Resp: 92383
 Ion Ratio Lower Upper
 180 100
 182 95.7 49.0 147.2
 145 31.7 14.1 42.4



#94
 Hexachlorobutadiene
 Concen: 20.847 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion:225 Resp: 60247
 Ion Ratio Lower Upper
 225 100
 223 64.6 30.3 90.9
 227 62.2 31.3 93.8





#95

Naphthalene

Concen: 21.281 ug/l

RT: 14.46 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

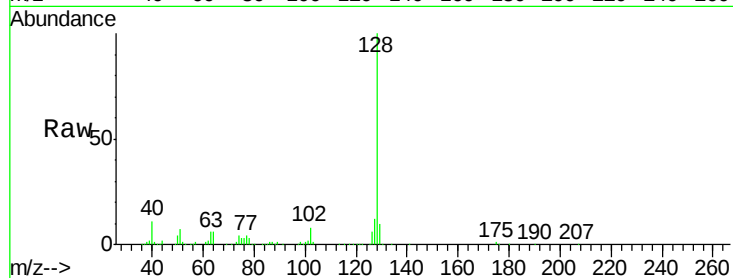
Tot Ion:128 Resp: 158232

Ion Ratio Lower Upper

128 100

127 11.8 9.3 13.9

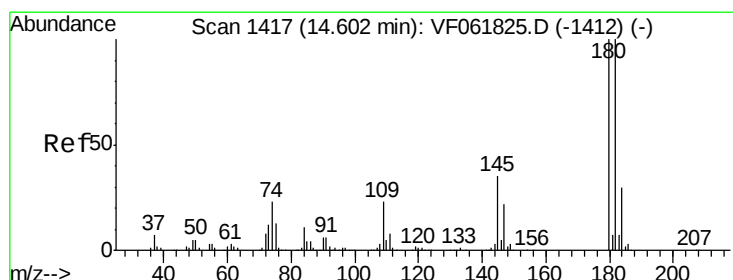
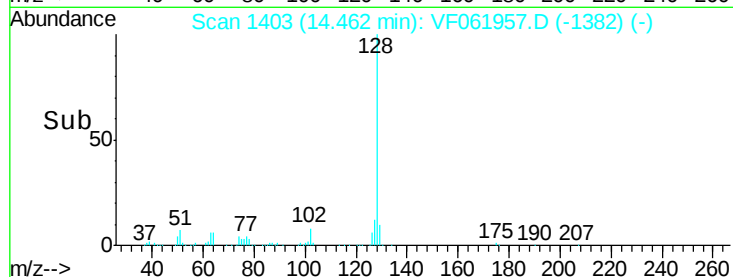
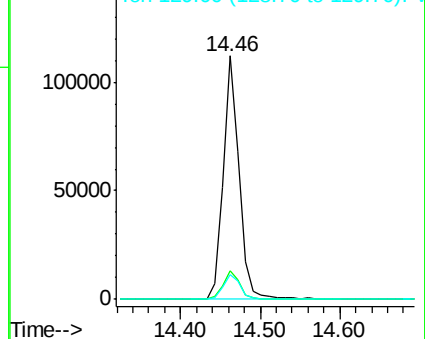
129 10.3 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.878 ug/l

RT: 14.61 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

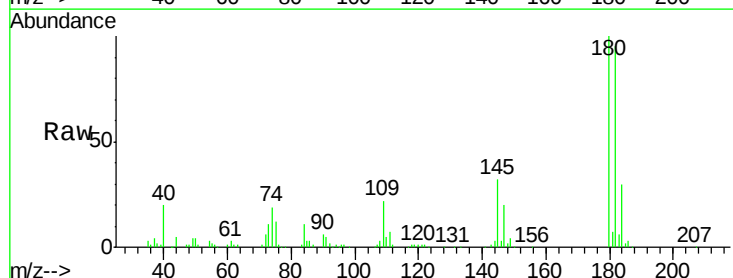
Tgt Ion:180 Resp: 80474

Ion Ratio Lower Upper

180 100

182 95.4 50.2 150.7

145 31.5 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

