

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031219\
 Data File : VF061906.D
 Acq On : 12 Mar 2019 15:43
 Operator : VA/AP
 Sample : VF0312SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Quant Time: Mar 13 01:59:39 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	4.85	168	305492	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	450783	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	390695	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	213015	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	123984	55.73	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	111.46%	
35) Dibromofluoromethane	4.09	113	170647	54.24	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	108.48%	
50) Toluene-d8	7.54	98	492551	52.68	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	105.36%	
62) 4-Bromofluorobenzene	11.40	95	203090	55.45	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	110.90%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	83357	22.225	ug/l	86
3) Chloromethane	1.10	50	78890	21.704	ug/l	90
4) Vinyl Chloride	1.14	62	77164	22.363	ug/l	98
5) Bromomethane	1.31	94	52531	22.339	ug/l	97
6) Chloroethane	1.37	64	38615	23.543	ug/l #	84
7) Trichlorofluoromethane	1.47	101	100224	23.782	ug/l	98
8) Diethyl Ether	1.63	74	19060	19.889	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.82	101	65480	22.881	ug/l #	91
10) Methyl Iodide	1.89	142	86323	15.851	ug/l	92
11) Tert butyl alcohol	2.56	59	13465	106.633	ug/l	99
12) 1,1-Dichloroethene	1.78	96	58528	22.401	ug/l	92
13) Acrolein	1.99	56	14658	91.611	ug/l	89
14) Allyl chloride	2.08	41	84107	29.221	ug/l	92
15) Acrylonitrile	2.93	53	43715	108.720	ug/l	98
16) Acetone	2.23	43	58380	125.274	ug/l	93
17) Carbon Disulfide	1.82	76	178655	21.967	ug/l	98
18) Methyl Acetate	2.34	43	23742	25.749	ug/l	98
19) Methyl tert-butyl Ether	2.42	73	99892	22.601	ug/l	97
20) Methylene Chloride	2.17	84	29611	6.899	ug/l	96
21) trans-1,2-Dichloroethene	2.30	96	63623	25.874	ug/l	88
22) Diisopropyl ether	2.79	45	173076	23.116	ug/l	99
23) Vinyl Acetate	3.18	43	351996	105.236	ug/l	99
24) 1,1-Dichloroethane	2.86	63	103734	23.180	ug/l	100
25) 2-Butanone	4.32	43	104400	110.136	ug/l	100
26) 2,2-Dichloropropane	3.58	77	52202	26.130	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	78569	23.063	ug/l	99
28) Bromochloromethane	3.70	49	38937	19.960	ug/l #	85
29) Tetrahydrofuran	4.06	42	41205	100.793	ug/l	98
30) Chloroform	3.85	83	115742	22.643	ug/l	95
31) Cyclohexane	3.68	56	108501	23.148	ug/l	96
32) 1,1,1-Trichloroethane	4.07	97	81090	25.737	ug/l #	88
36) 1,1-Dichloropropene	4.26	75	92834	21.801	ug/l	92
37) Ethyl Acetate	4.10	43	36352	20.339	ug/l #	82
38) Carbon Tetrachloride	3.98	117	77198	25.610	ug/l	95

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :
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 VF0312SBS01

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 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)
39) Methylcyclohexane	5.44	83	110812	22.032	ug/l	97
40) Benzene	4.62	78	249293	22.398	ug/l	98
41) Methacrylonitrile	4.74	41	17712	18.088	ug/l #	94
42) 1,2-Dichloroethane	4.92	62	61940	22.330	ug/l	99
43) Isopropyl Acetate	6.94	43	43777	19.870	ug/l	100
44) Trichloroethene	5.48	130	73840	21.348	ug/l	97
45) 1,2-Dichloropropane	6.21	63	58027	21.924	ug/l	97
46) Dibromomethane	6.07	93	35283	21.182	ug/l	97
47) Bromodichloromethane	6.37	83	79011	21.470	ug/l	91
48) Methyl methacrylate	6.71	41	28138	20.181	ug/l	94
49) 1,4-Dioxane	6.69	88	4568	358.386	ug/l	91
51) 4-Methyl-2-Pentanone	8.25	43	164663	108.141	ug/l	94
52) Toluene	7.60	92	148434	22.543	ug/l	96
53) t-1,3-Dichloropropene	8.27	75	66760	21.977	ug/l	92
54) cis-1,3-Dichloropropene	7.29	75	86507	20.646	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	41936	22.105	ug/l	97
56) Ethyl methacrylate	8.61	69	44564	20.843	ug/l #	86
57) 1,3-Dichloropropane	8.84	76	66789	21.527	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.28	63	36598	108.207	ug/l	95
59) 2-Hexanone	9.48	43	122656	111.660	ug/l	96
60) Dibromochloromethane	8.70	129	58773	21.736	ug/l	97
61) 1,2-Dibromoethane	8.97	107	44237	21.204	ug/l	100
64) Tetrachloroethene	8.14	164	65991	21.982	ug/l	97
65) Chlorobenzene	9.78	112	166337	22.160	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	68674	23.614	ug/l	97
67) Ethyl Benzene	9.88	91	292505	23.511	ug/l	97
68) m/p-Xylenes	10.12	106	216713	45.470	ug/l	99
69) o-Xylene	10.70	106	116804	22.760	ug/l	93
70) Styrene	10.78	104	162962	22.563	ug/l	99
71) Bromoform	10.76	173	32108	20.890	ug/l #	95
73) Isopropylbenzene	11.12	105	329486	22.468	ug/l	99
74) N-amyl acetate	11.36	43	70076	20.757	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	53016	21.751	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	37826	22.739	ug/l	99
77) Bromobenzene	11.48	156	76598	21.703	ug/l	97
78) n-propylbenzene	11.58	91	383072	23.131	ug/l	97
79) 2-Chlorotoluene	11.71	91	222114	23.459	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	280406	23.815	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	22986	30.218	ug/l	91
82) 4-Chlorotoluene	11.88	91	220185	22.736	ug/l	100
83) tert-Butylbenzene	12.12	119	289488	23.155	ug/l	94
84) 1,2,4-Trimethylbenzene	12.19	105	262603	22.751	ug/l	95
85) sec-Butylbenzene	12.30	105	382758	23.526	ug/l	98
86) p-Isopropyltoluene	12.45	119	320766	23.194	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	151912	22.668	ug/l	100
88) 1,4-Dichlorobenzene	12.56	146	144897	22.414	ug/l	97
89) n-Butylbenzene	12.83	91	310322	23.480	ug/l	93
90) Hexachloroethane	12.91	117	72820	21.876	ug/l	73
91) 1,2-Dichlorobenzene	12.93	146	143707	22.633	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8129	21.527	ug/l	73

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ClientSampleId :
VF0312SBS01

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration

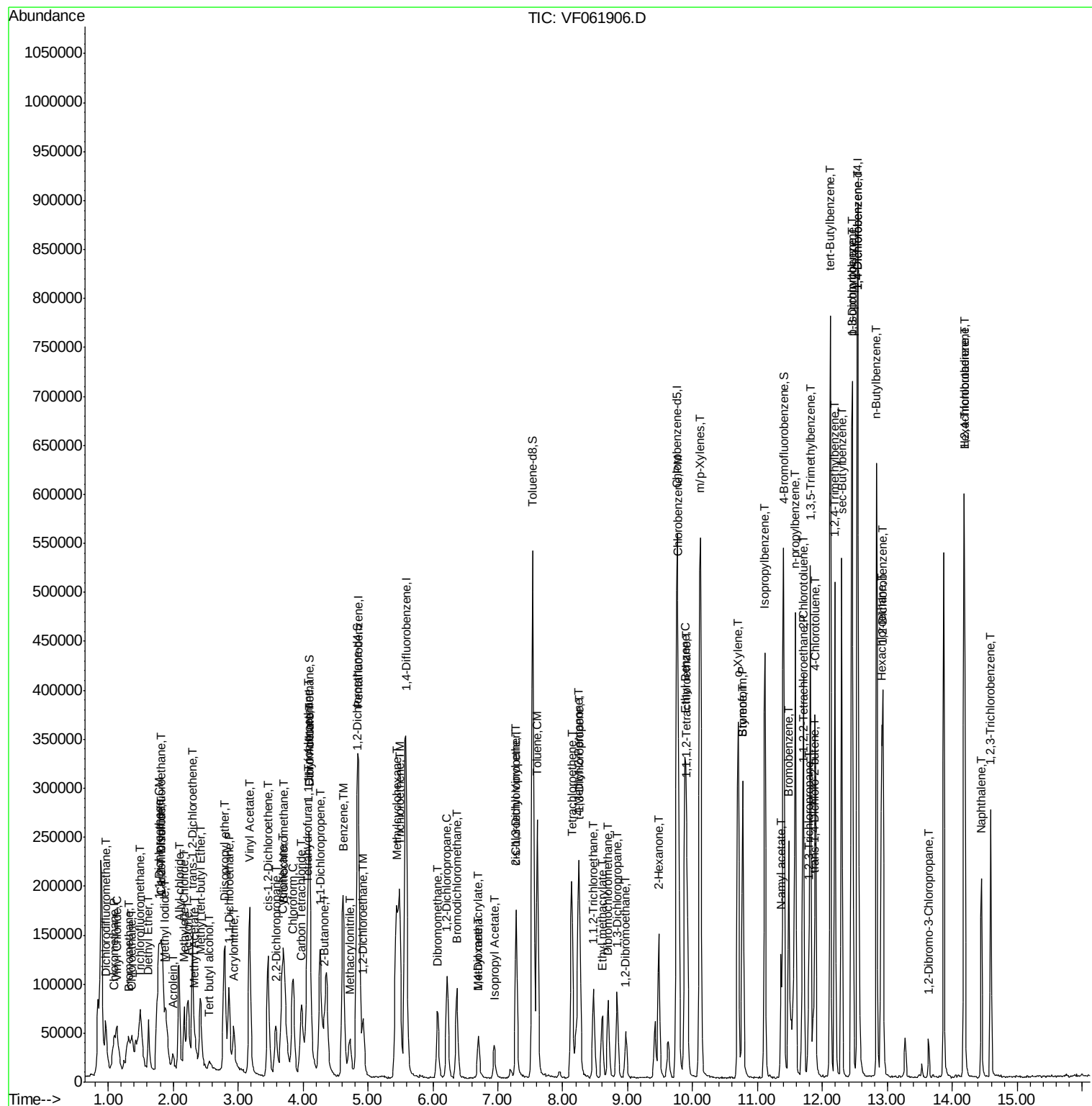
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	95775	21.516	ug/l	97
94) Hexachlorobutadiene	14.18	225	64531	20.941	ug/l	98
95) Naphthalene	14.45	128	154232	19.454	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	90055	21.911	ug/l	97

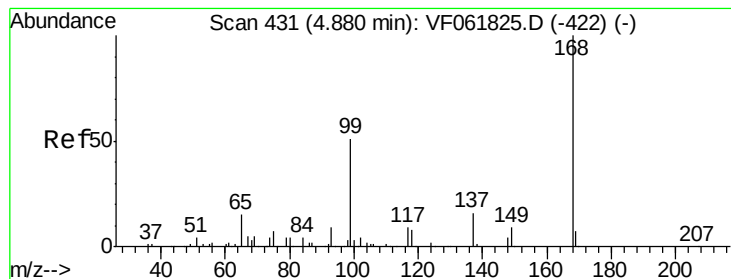
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031219\
 Data File : VF061906.D
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 Sample : VF0312SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
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 Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

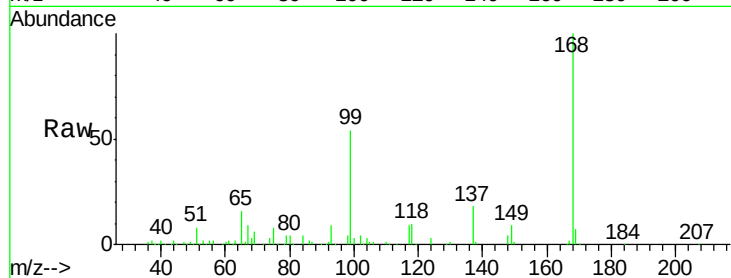
VF0312SBS01

Tot Ion:168 Resp: 305492

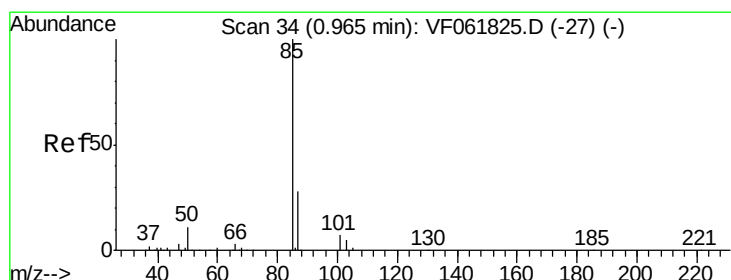
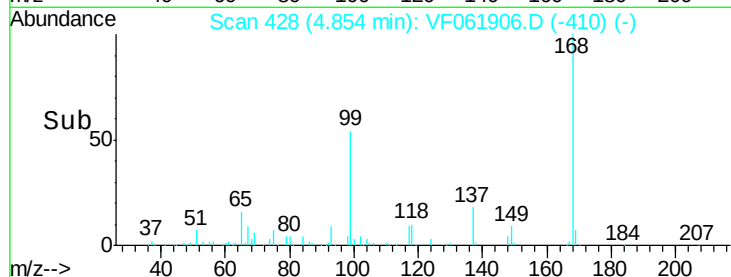
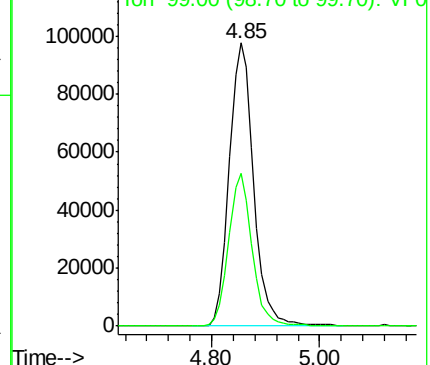
Ion Ratio Lower Upper

168 100

99 53.8 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 22.225 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061906.D

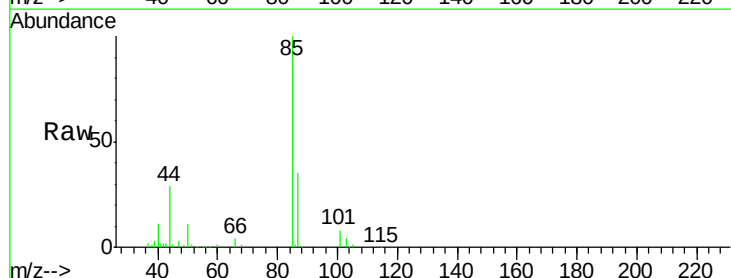
Acq: 12 Mar 2019 15:43

Tgt Ion: 85 Resp: 83357

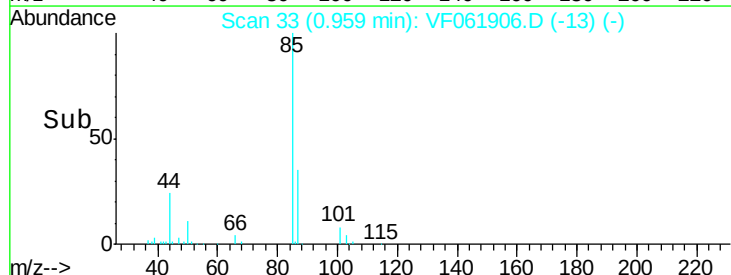
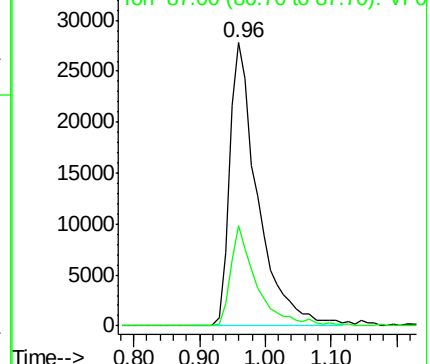
Ion Ratio Lower Upper

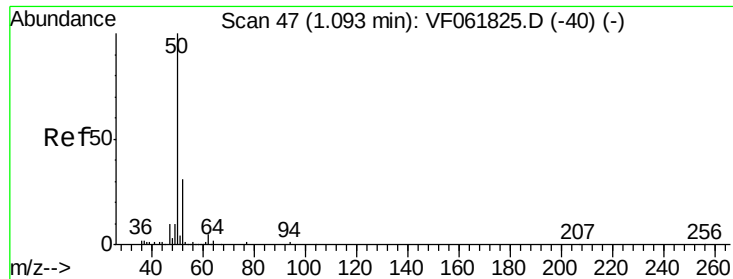
85 100

87 35.3 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 21.704 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

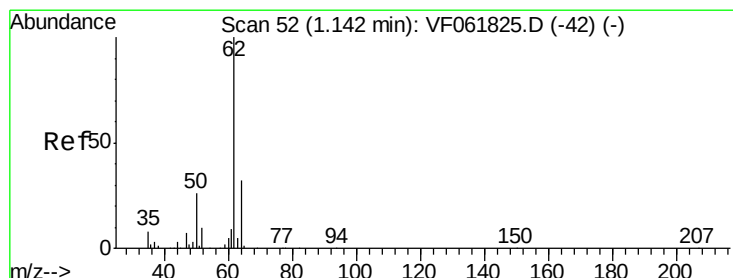
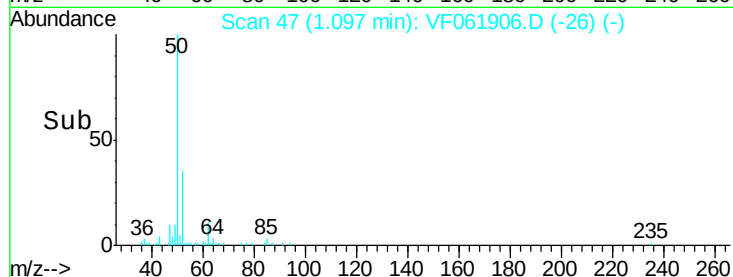
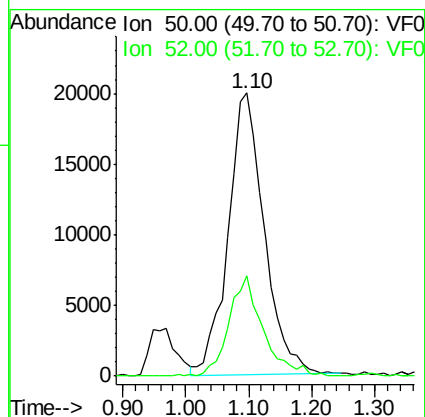
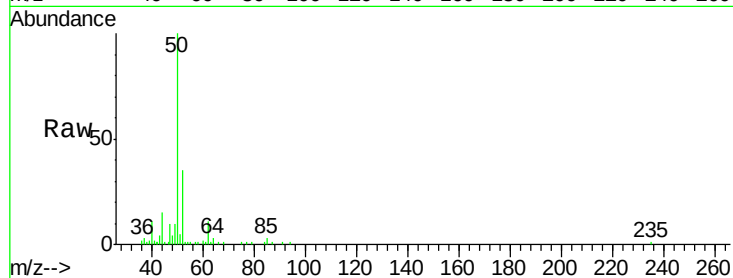
VF0312SBS01

Tot Ion: 50 Resp: 78890

Ion Ratio Lower Upper

50 100

52 35.3 23.8 35.8



#4

Vinyl Chloride

Concen: 22.363 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061906.D

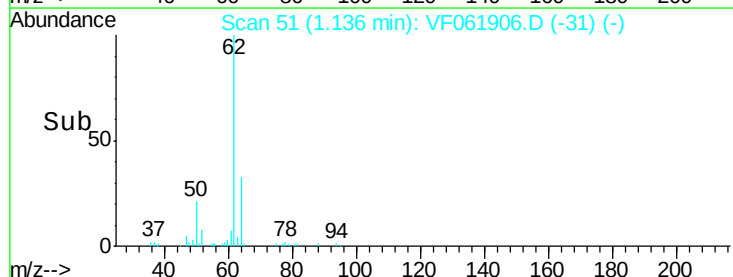
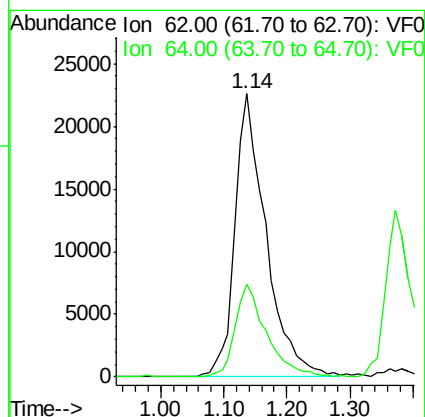
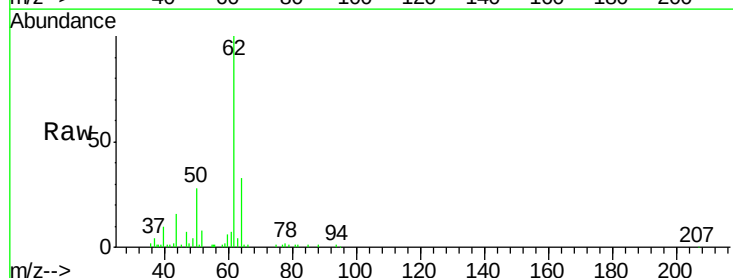
Acq: 12 Mar 2019 15:43

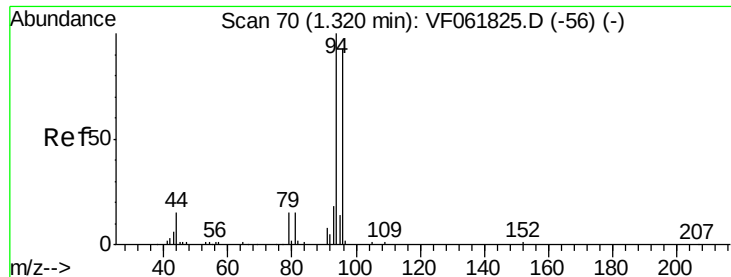
Tgt Ion: 62 Resp: 77164

Ion Ratio Lower Upper

62 100

64 32.8 25.2 37.8





#5

Bromomethane

Concen: 22.339 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

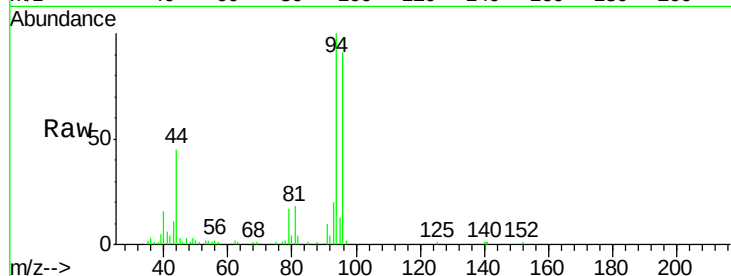
VF0312SBS01

Tot Ion: 94 Resp: 52531

Ion Ratio Lower Upper

94 100

96 90.7 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

12000

10000

8000

6000

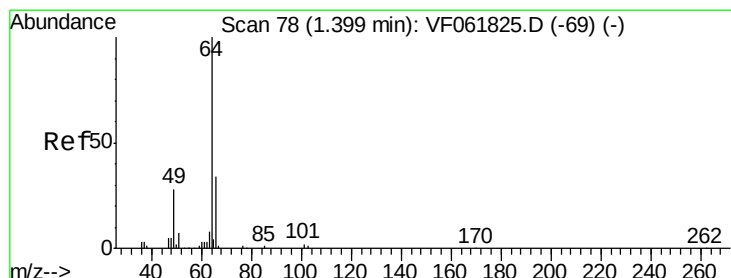
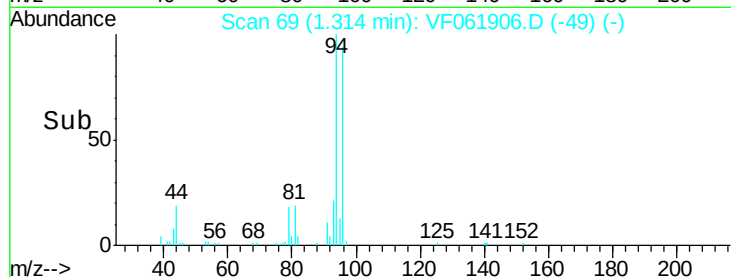
4000

2000

0

1.20 1.30 1.40 1.50

Time-->



#6

Chloroethane

Concen: 23.543 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.03 min

Lab File: VF061906.D

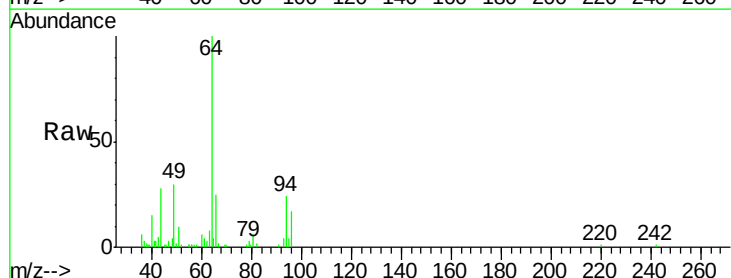
Acq: 12 Mar 2019 15:43

Tgt Ion: 64 Resp: 38615

Ion Ratio Lower Upper

64 100

66 24.5 27.0 40.4#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

15000

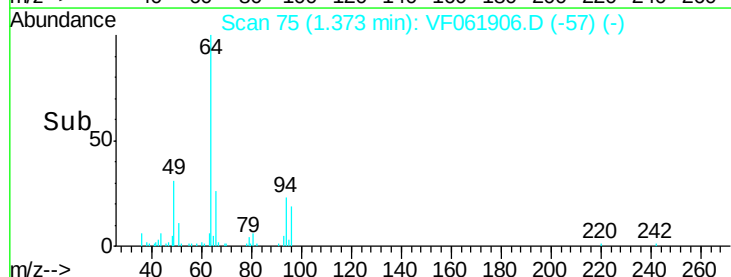
10000

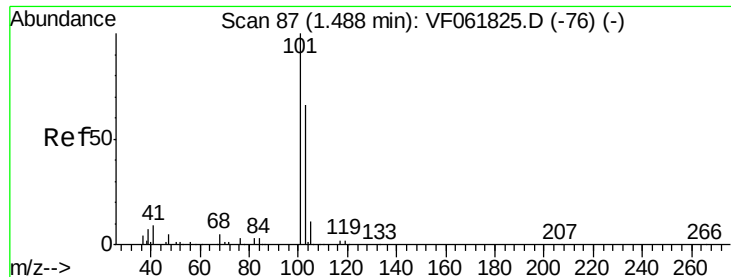
5000

0

1.30 1.40 1.50

Time-->





#7

Trichlorofluoromethane

Concen: 23.782 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

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ClientSampleId :

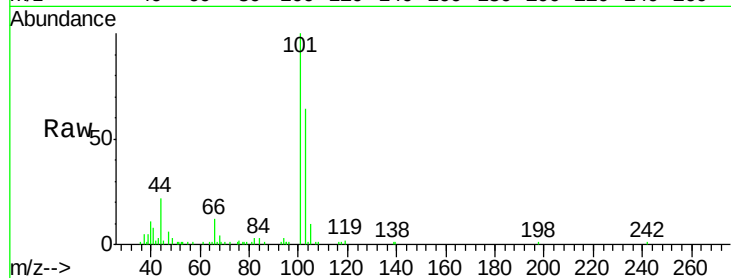
VF0312SBS01

Tot Ion:101 Resp: 100224

Ion Ratio Lower Upper

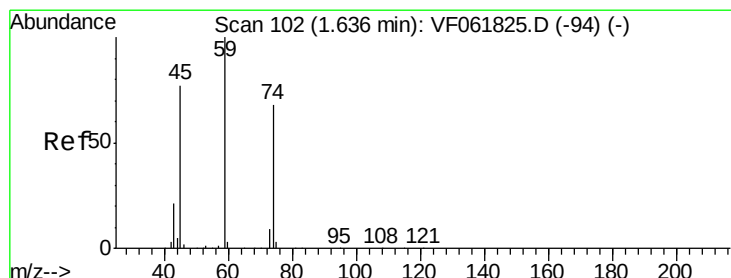
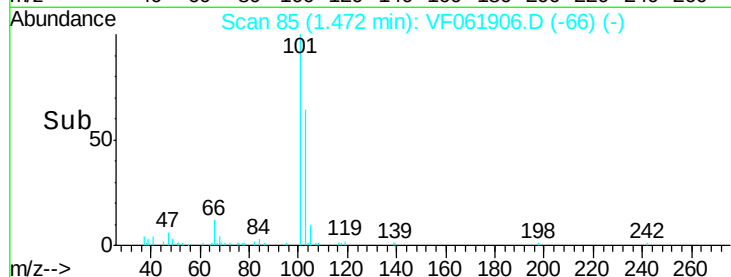
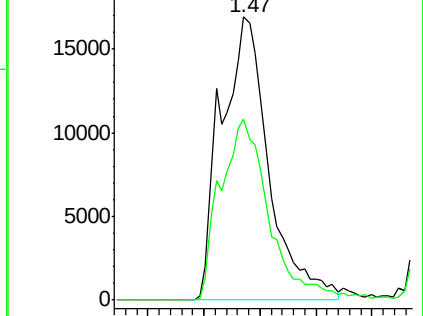
101 100

103 64.1 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 19.889 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061906.D

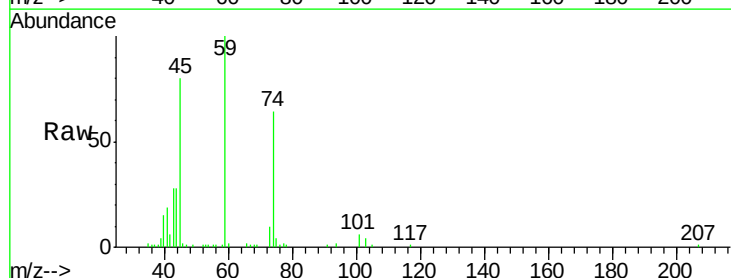
Acq: 12 Mar 2019 15:43

Tgt Ion: 74 Resp: 19060

Ion Ratio Lower Upper

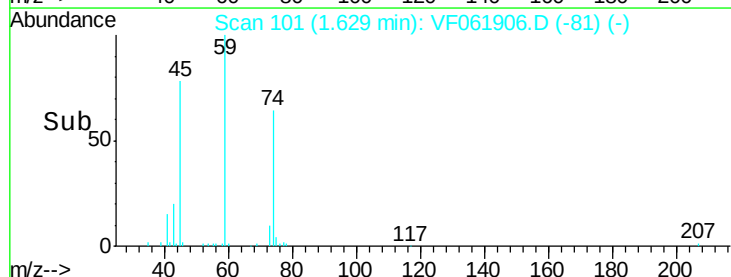
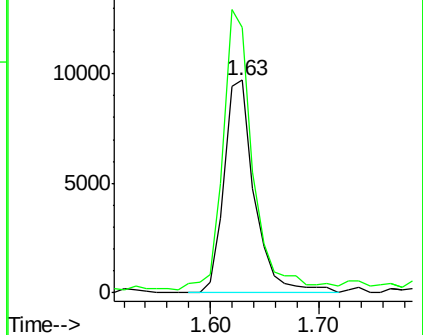
74 100

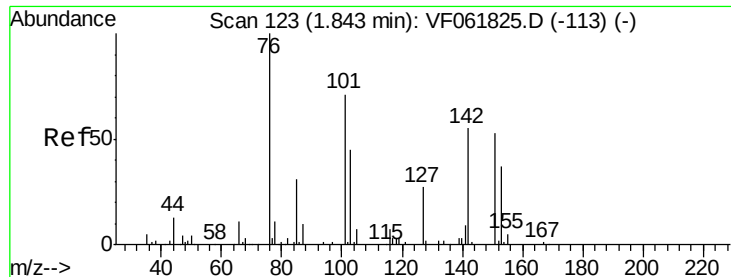
45 125.0 57.2 171.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.881 ug/l

RT: 1.82 min Scan# 120

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

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ClientSampleId :

VF0312SBS01

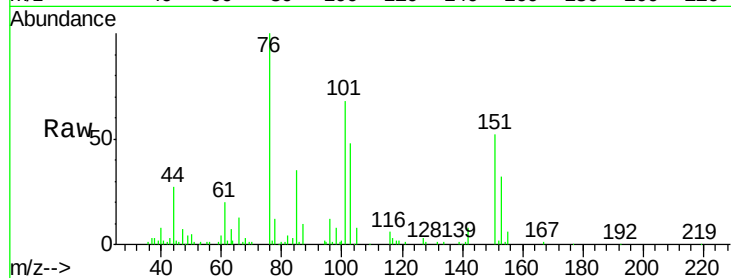
Tot Ion:101 Resp: 65480

Ion Ratio Lower Upper

101 100

85 51.3 34.0 51.0#

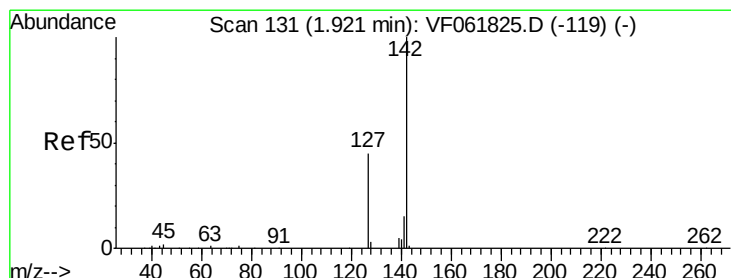
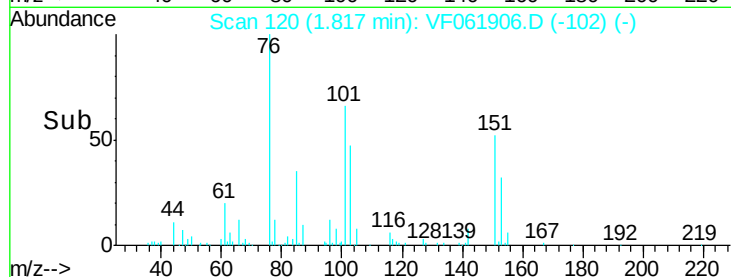
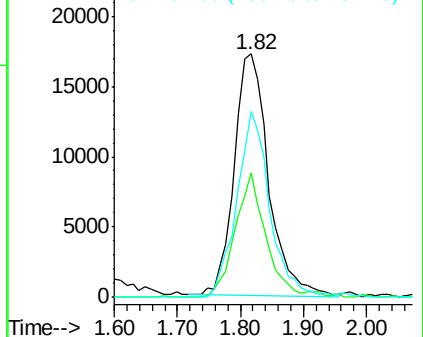
151 76.1 57.3 85.9



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: 15.851 ug/l

RT: 1.89 min Scan# 127

Delta R.T. -0.04 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

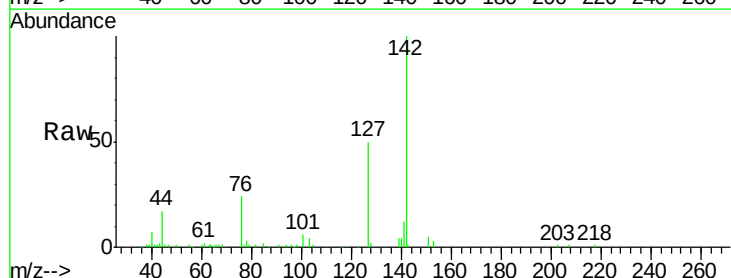
Tgt Ion:142 Resp: 86323

Ion Ratio Lower Upper

142 100

127 50.1 35.8 53.6

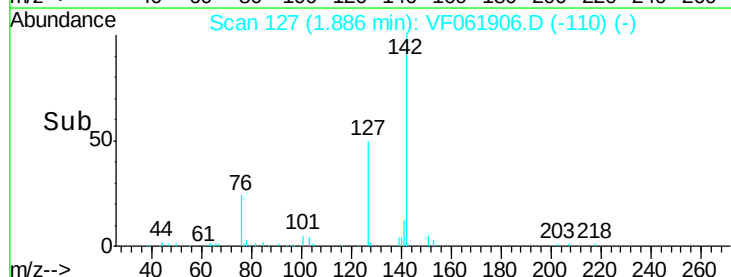
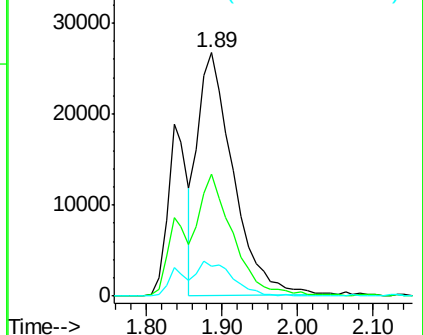
141 12.3 11.7 17.5

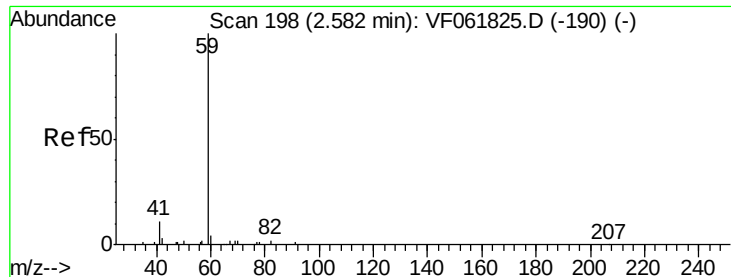


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

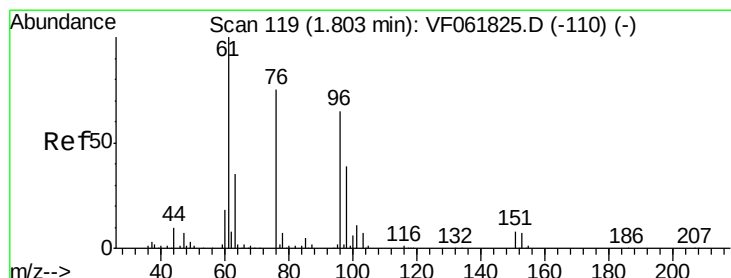
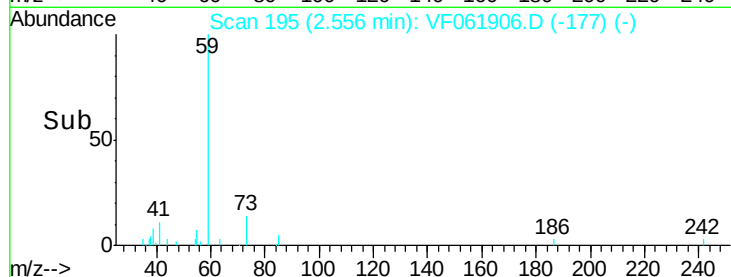
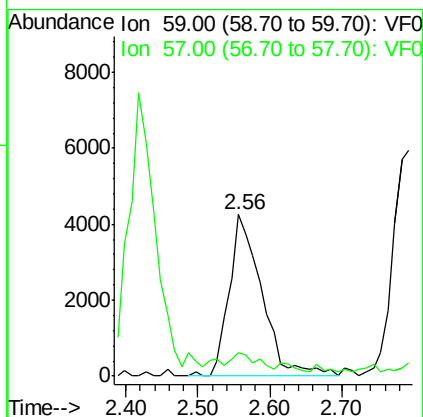
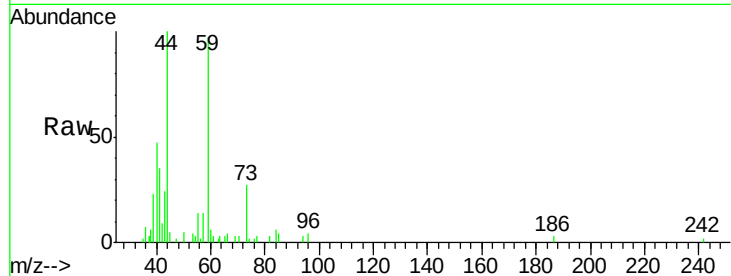




#11
Tert butyl alcohol
Concen: 106.633 ug/l
RT: 2.56 min Scan# 195
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

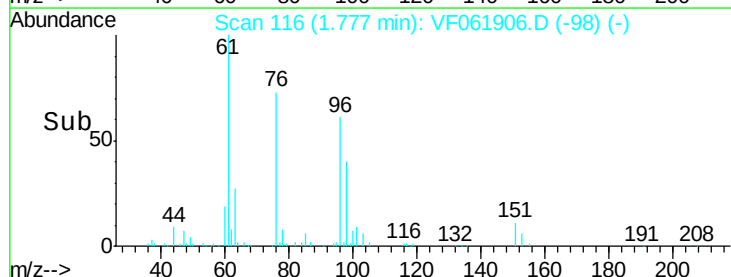
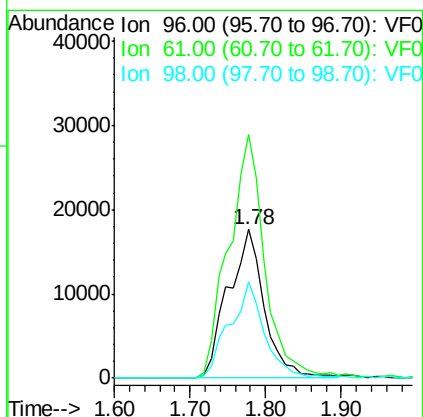
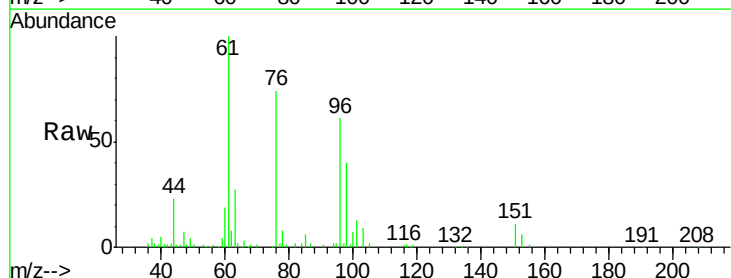
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

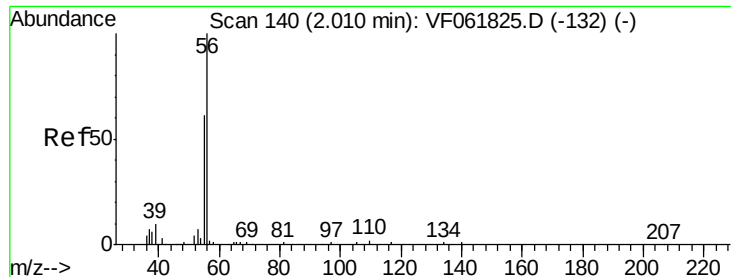
Tot Ion: 59 Resp: 13465
Ion Ratio Lower Upper
59 100
57 14.3 11.8 17.6



#12
1,1-Dichloroethene
Concen: 22.401 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 96 Resp: 58528
Ion Ratio Lower Upper
96 100
61 163.9 122.5 183.7
98 64.9 47.1 70.7





#13

Acrolein

Concen: 91.611 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

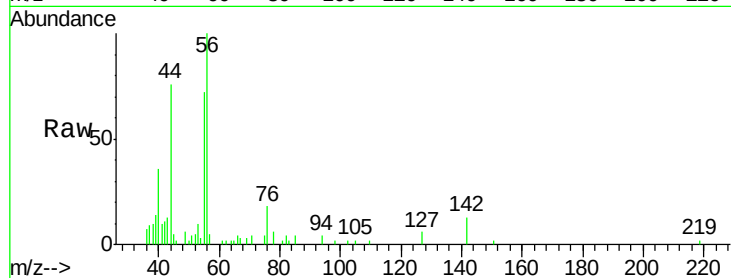
VF0312SBS01

Tot Ion: 56 Resp: 14658

Ion Ratio Lower Upper

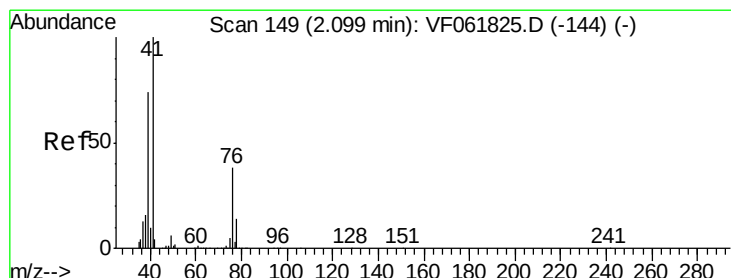
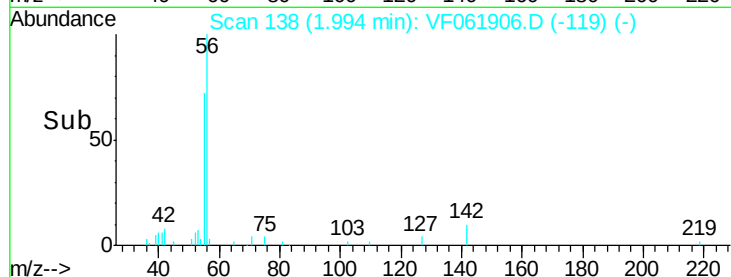
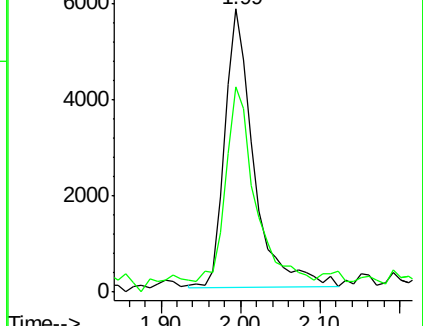
56 100

55 72.4 51.3 76.9



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 29.221 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

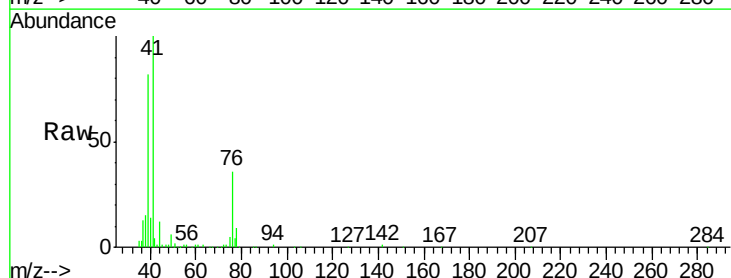
Tgt Ion: 41 Resp: 84107

Ion Ratio Lower Upper

41 100

39 81.6 59.6 89.4

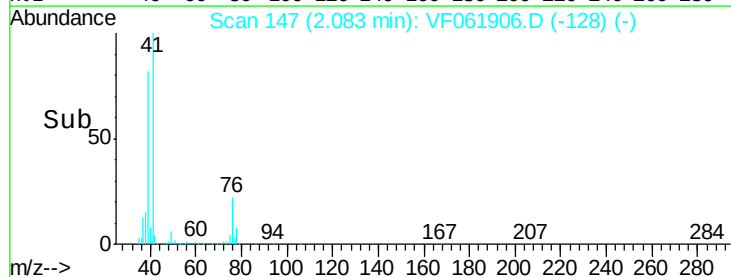
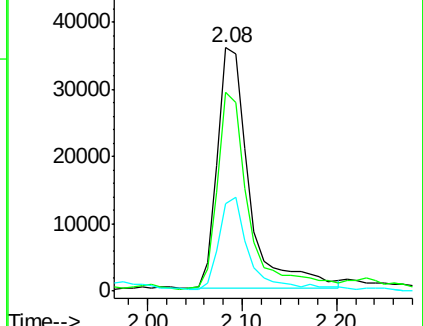
76 35.7 32.3 48.5

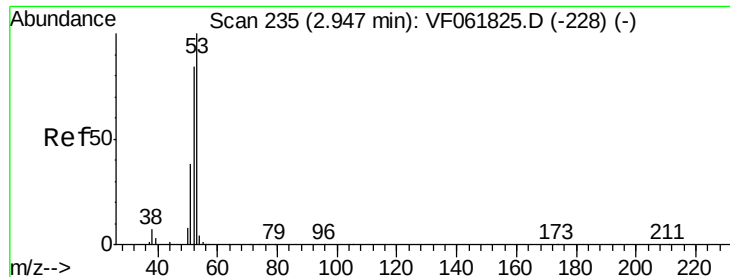


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 108.720 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

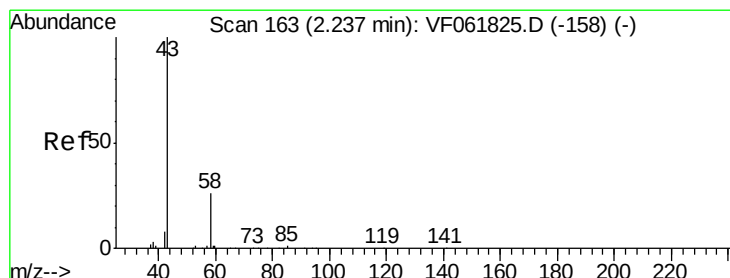
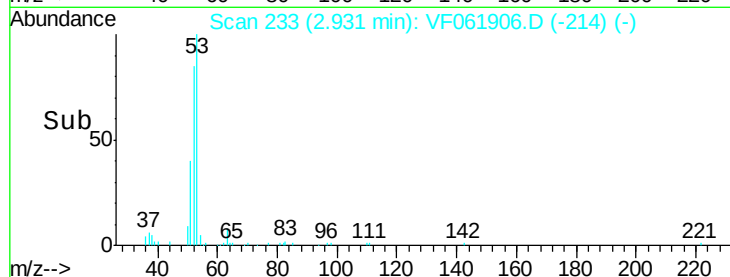
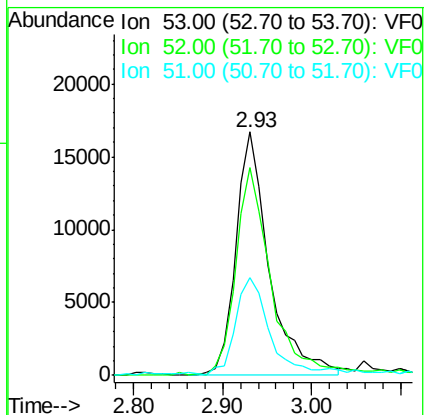
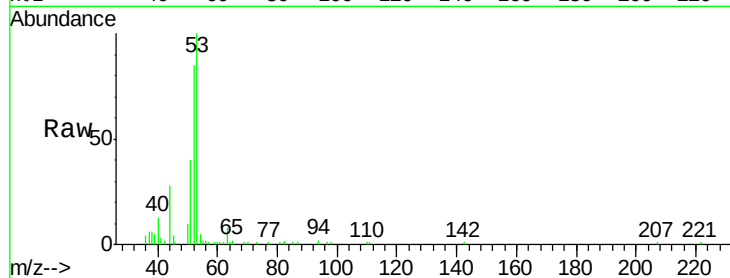
Tot Ion: 53 Resp: 43715

Ion Ratio Lower Upper

53 100

52 85.4 67.4 101.0

51 40.2 30.7 46.1



#16

Acetone

Concen: 125.274 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061906.D

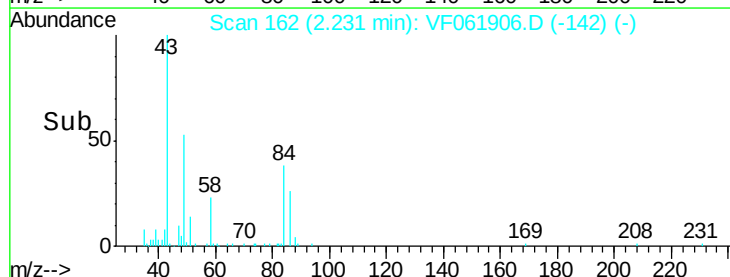
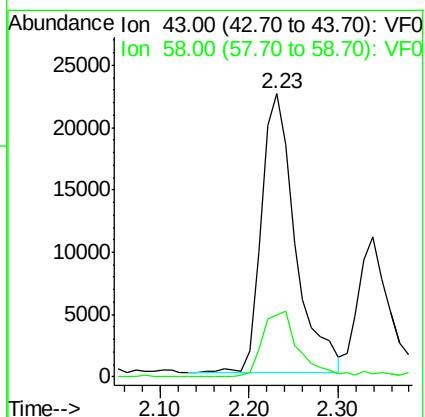
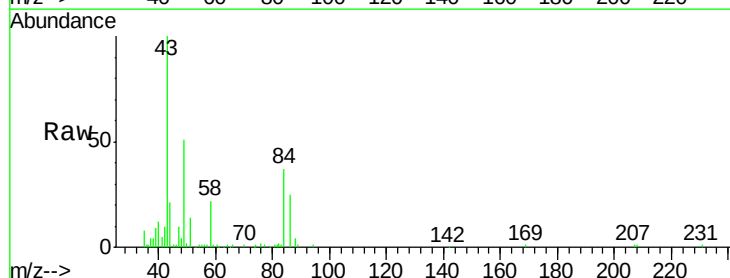
Acq: 12 Mar 2019 15:43

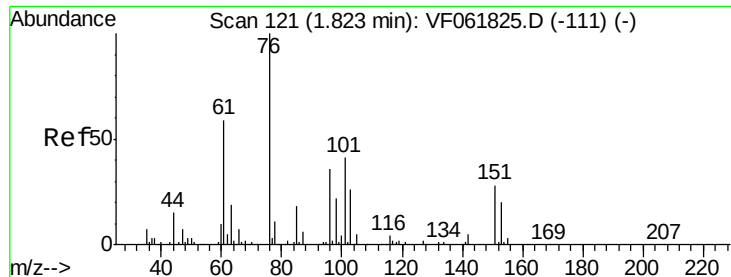
Tgt Ion: 43 Resp: 58380

Ion Ratio Lower Upper

43 100

58 22.0 20.3 30.5





#17

Carbon Disulfide

Concen: 21.967 ug/l

RT: 1.82 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

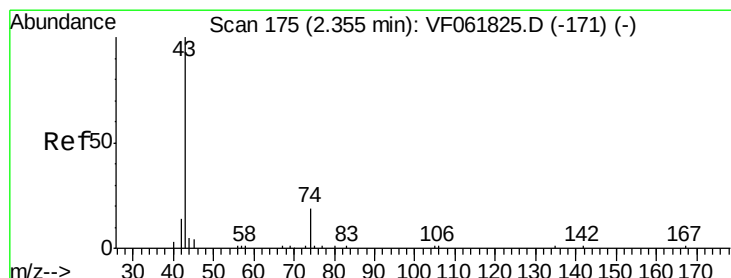
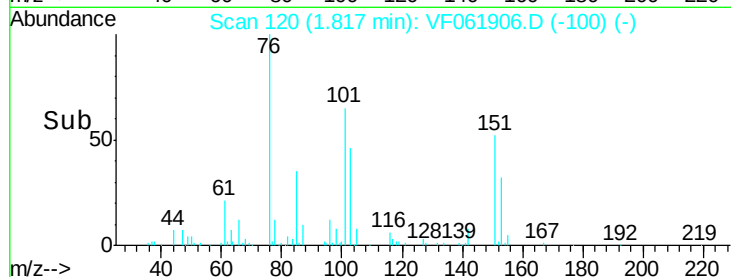
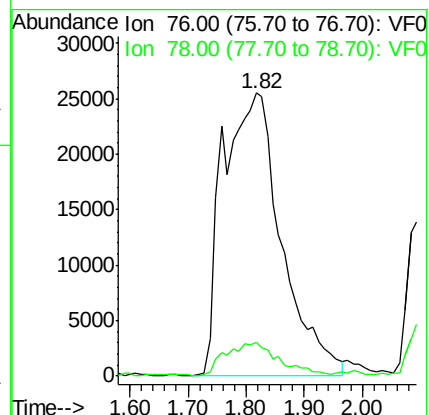
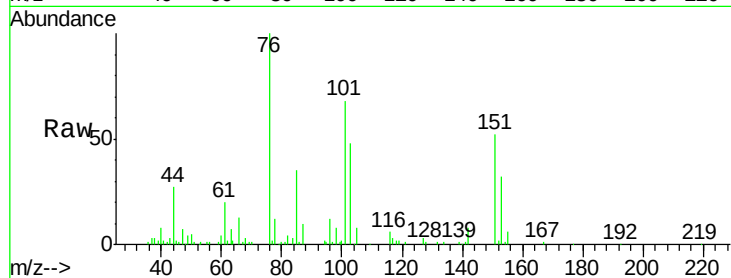
VF0312SBS01

Tot Ion: 76 Resp: 178655

Ion Ratio Lower Upper

76 100

78 12.0 9.1 13.7



#18

Methyl Acetate

Concen: 25.749 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF061906.D

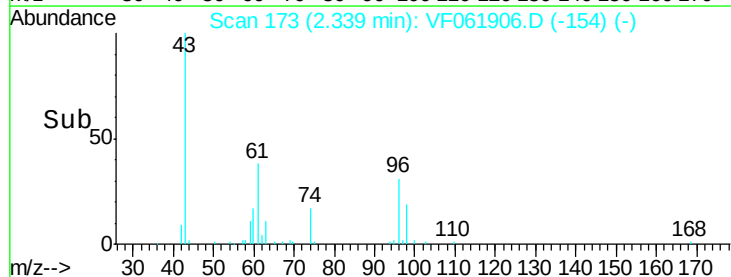
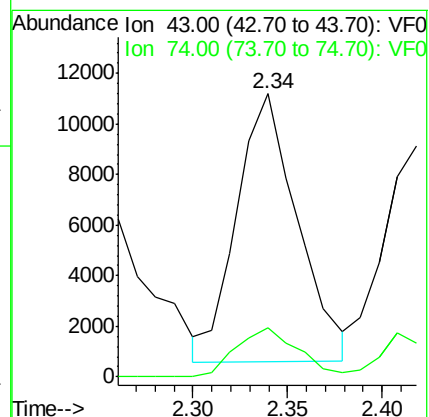
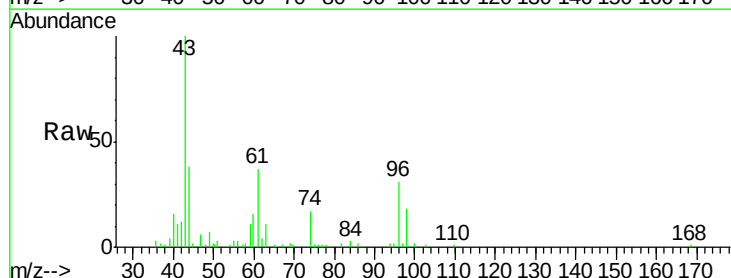
Acq: 12 Mar 2019 15:43

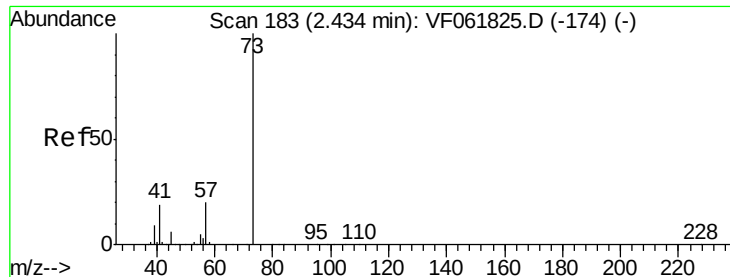
Tgt Ion: 43 Resp: 23742

Ion Ratio Lower Upper

43 100

74 17.4 13.2 19.8

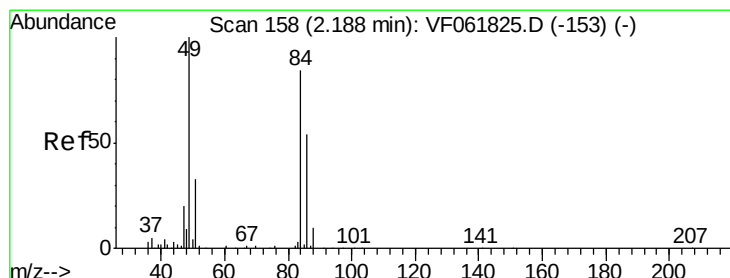
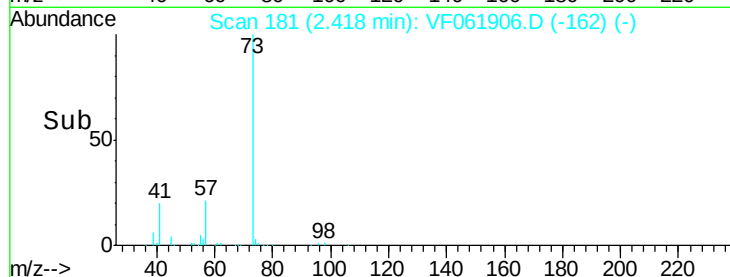
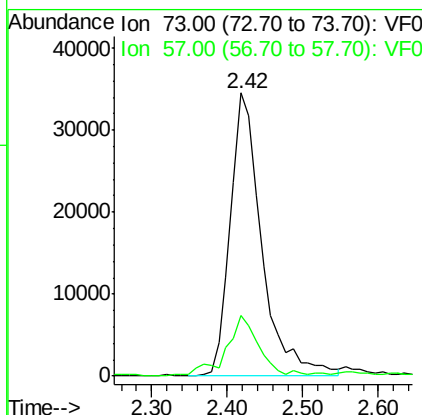
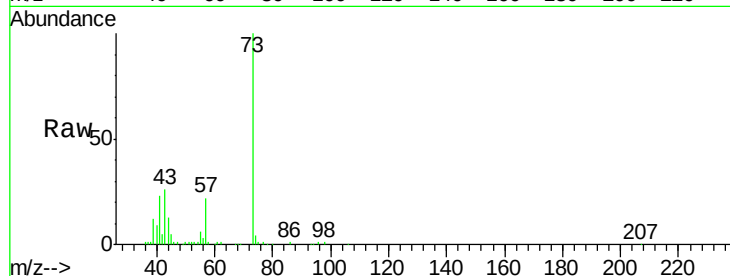




#19
Methyl tert-butyl Ether
Concen: 22.601 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

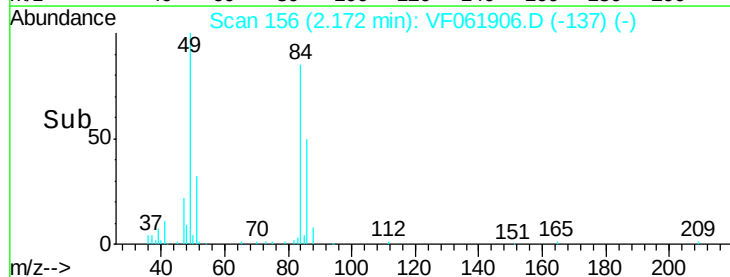
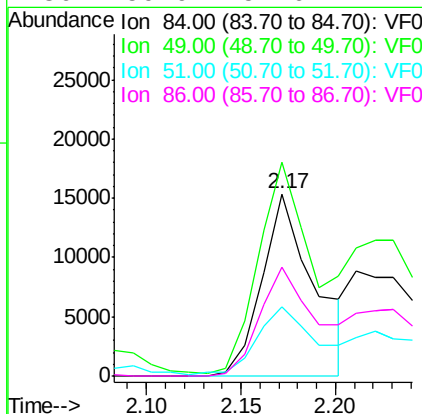
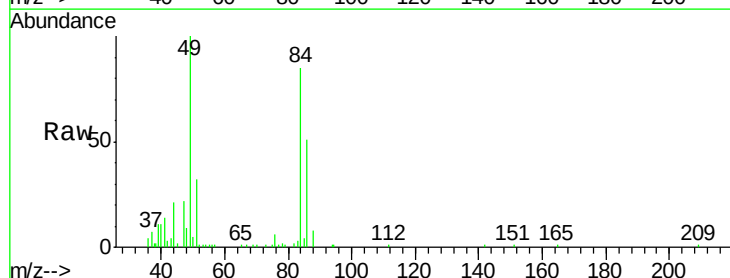
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

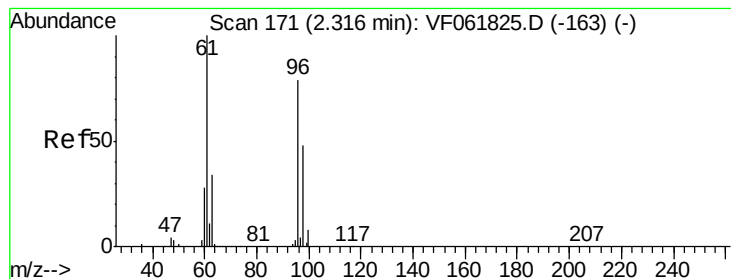
Tot Ion: 73 Resp: 99892
Ion Ratio Lower Upper
73 100
57 21.6 16.1 24.1



#20
Methylene Chloride
Concen: 6.899 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 84 Resp: 29611
Ion Ratio Lower Upper
84 100
49 117.4 96.8 145.2
51 37.7 31.8 47.6
86 59.9 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 25.874 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

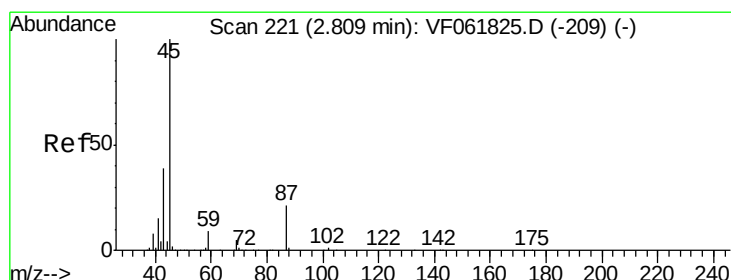
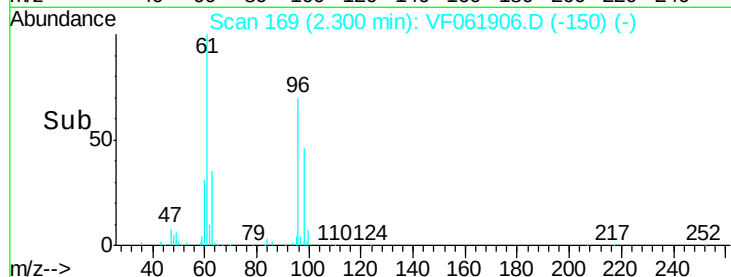
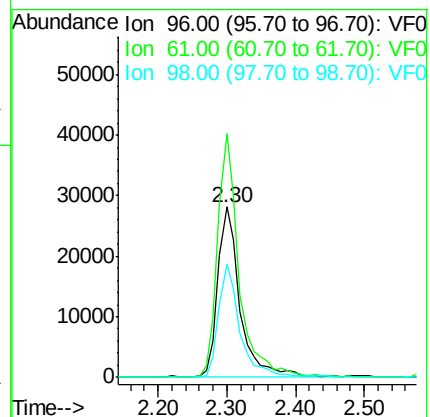
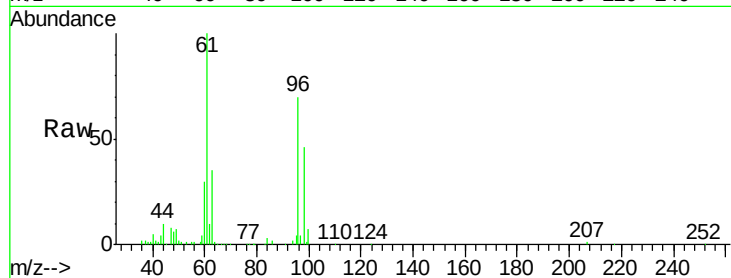
Tot Ion: 96 Resp: 63623

Ion Ratio Lower Upper

96 100

61 143.0 101.0 151.6

98 66.3 48.8 73.2



#22

Diisopropyl ether

Concen: 23.116 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion: 45 Resp: 173076

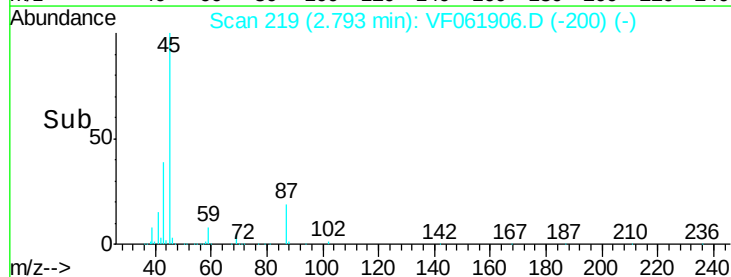
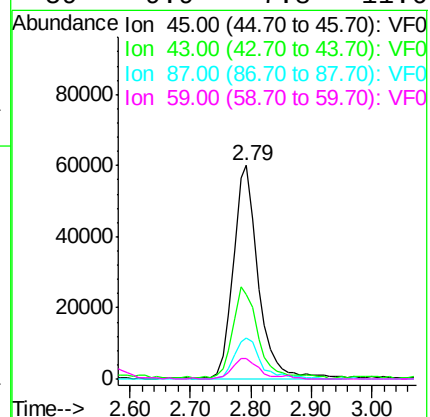
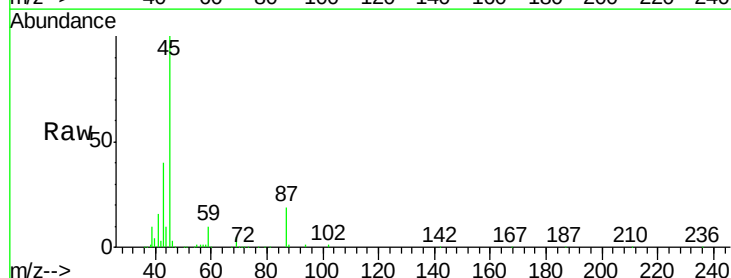
Ion Ratio Lower Upper

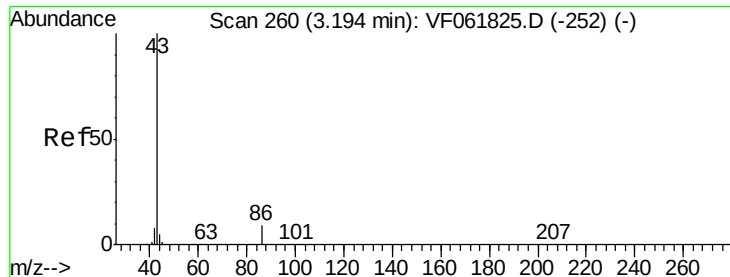
45 100

43 39.8 31.8 47.8

87 19.3 17.1 25.7

59 9.9 7.8 11.6





#23

Vinyl Acetate

Concen: 105.236 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

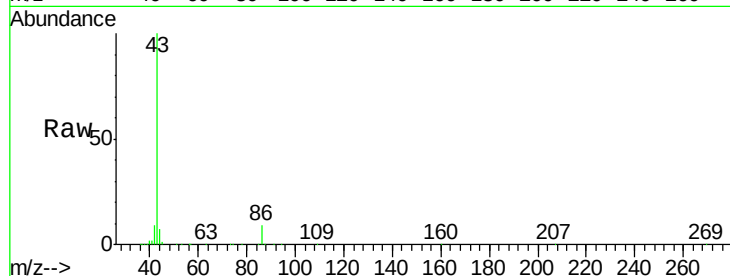
VF0312SBS01

Tot Ion: 43 Resp: 351996

Ion Ratio Lower Upper

43 100

86 9.2 7.0 10.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

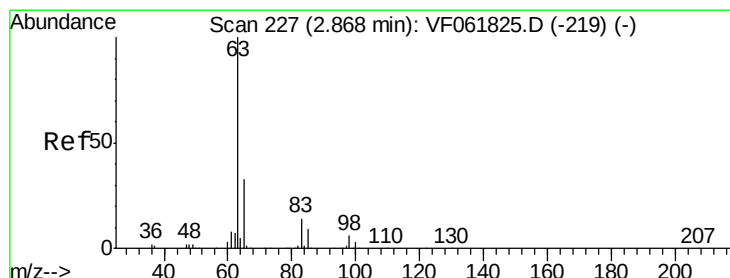
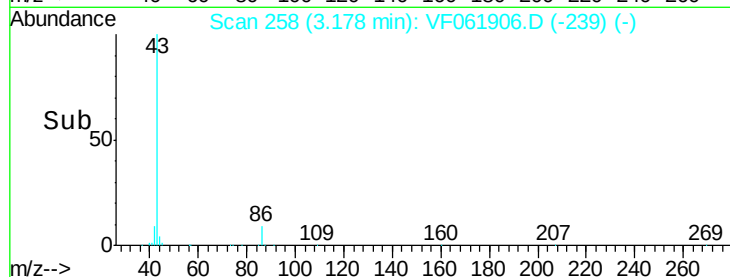
150000

100000

50000

0

Time--> 3.00 3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 23.180 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

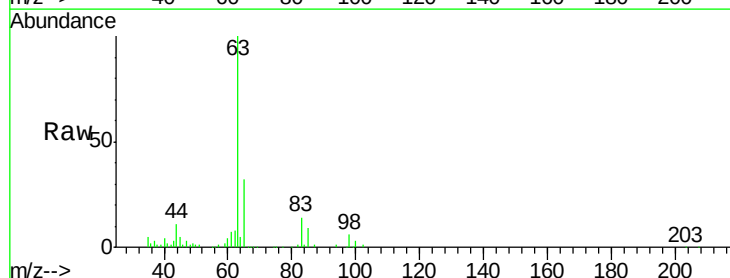
Tgt Ion: 63 Resp: 103734

Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.6

100 3.2 1.8 5.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.86

50000

40000

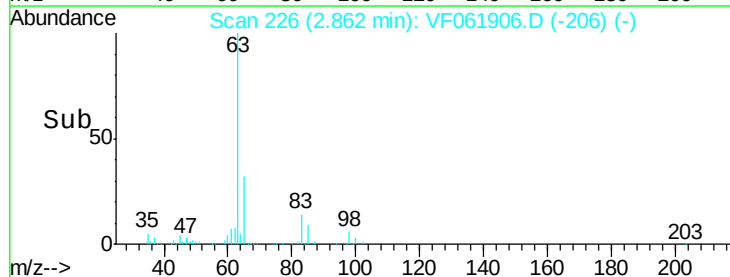
30000

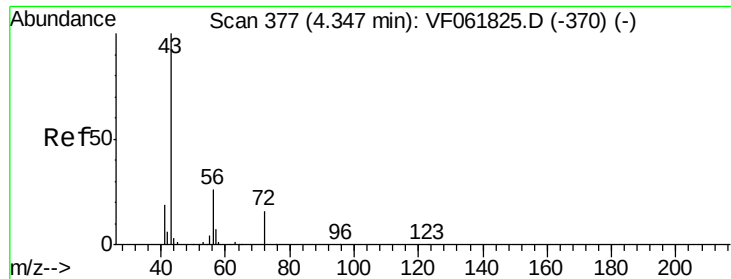
20000

10000

0

Time--> 2.70 2.80 2.90 3.00





#25

2-Butanone

Concen: 110.136 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

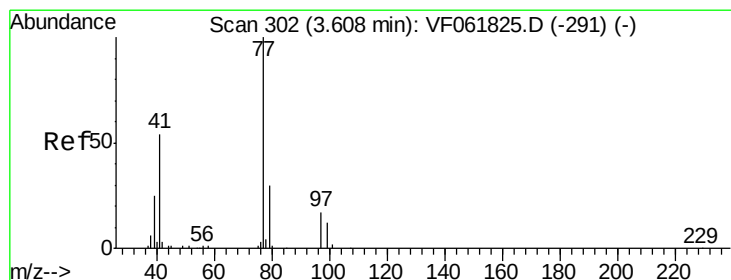
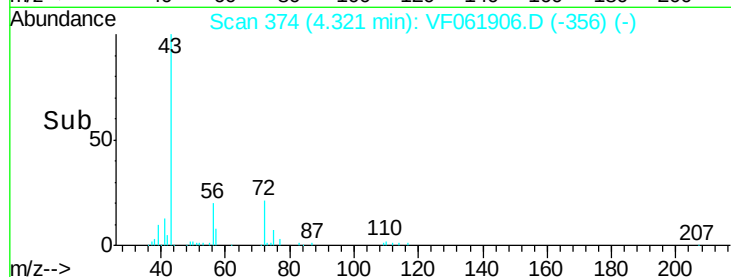
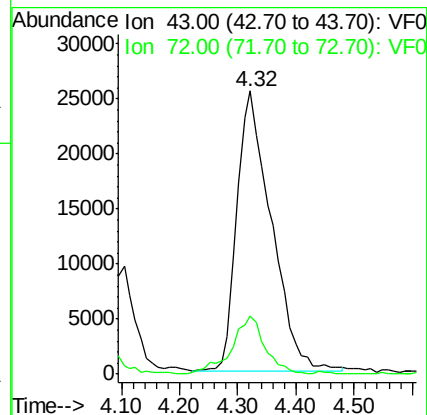
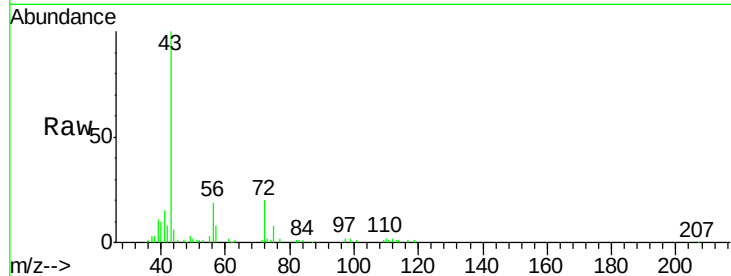
VF0312SBS01

Tot Ion: 43 Resp: 104400

Ion Ratio Lower Upper

43 100

72 20.5 16.2 24.4



#26

2,2-Dichloropropane

Concen: 26.130 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.03 min

Lab File: VF061906.D

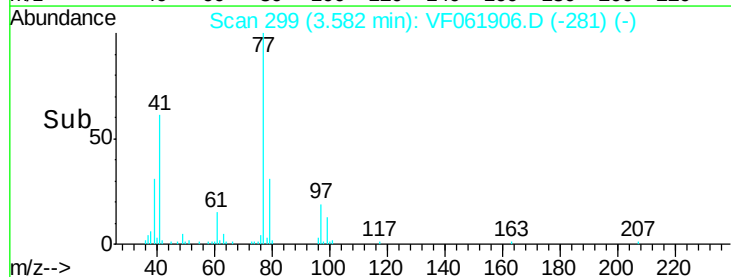
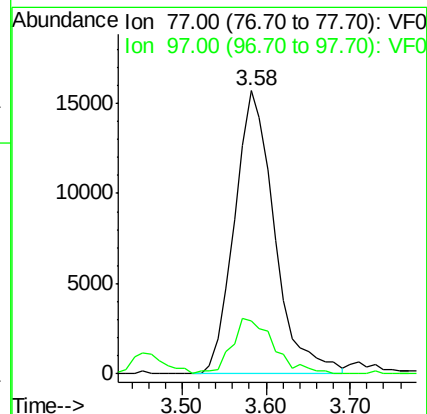
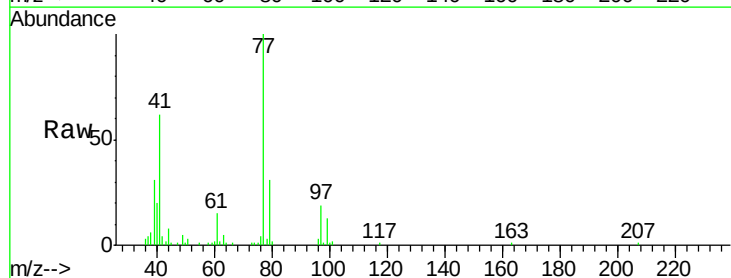
Acq: 12 Mar 2019 15:43

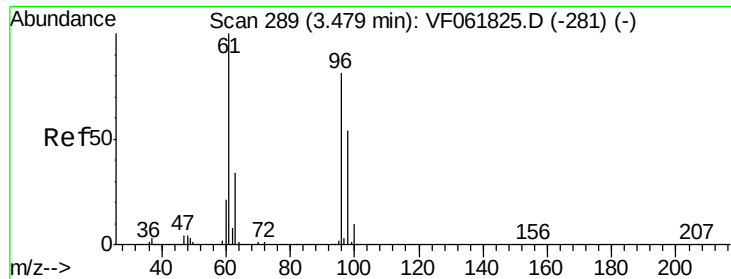
Tgt Ion: 77 Resp: 52202

Ion Ratio Lower Upper

77 100

97 18.9 10.4 31.4



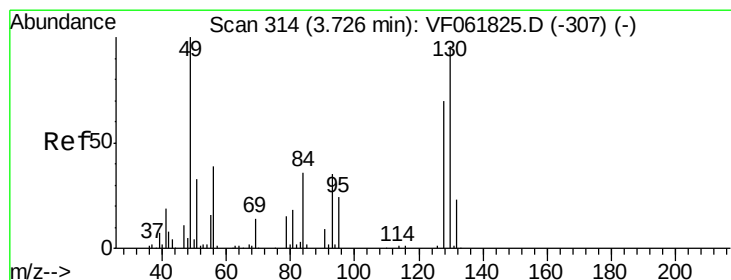
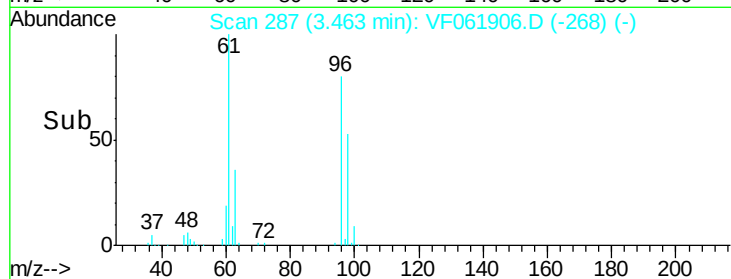
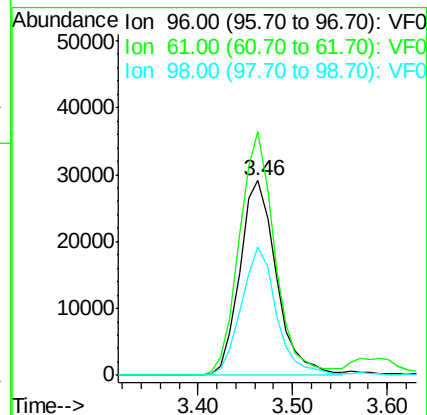
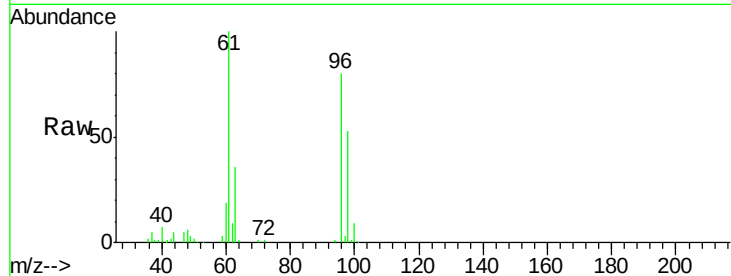


#27

cis-1,2-Dichloroethene
 Concen: 23.063 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

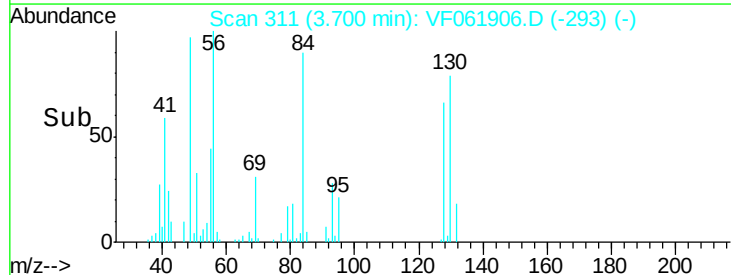
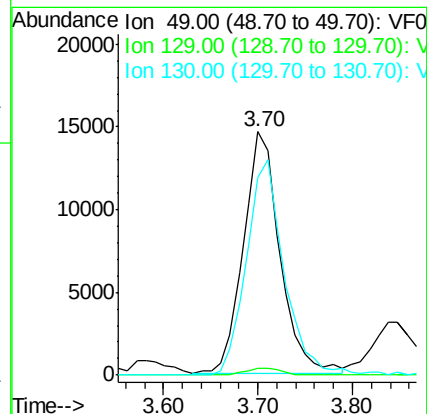
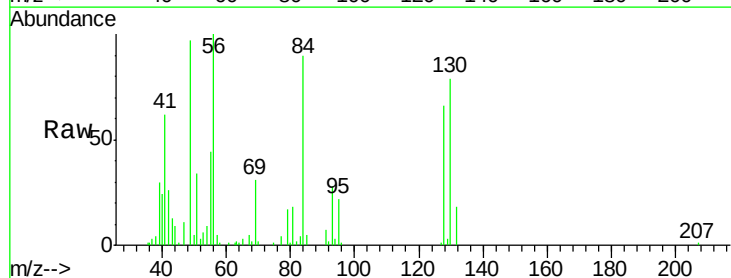
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.2	0.0	245.8
98	66.3	0.0	132.6

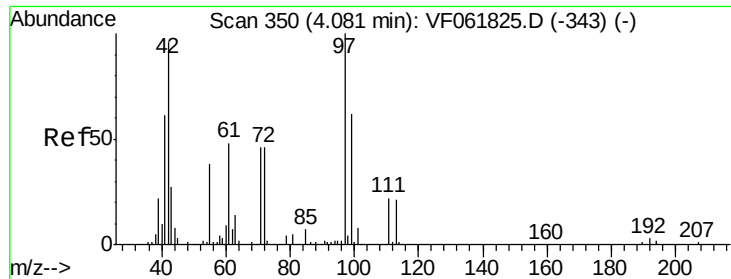


#28

Bromochloromethane
 Concen: 19.960 ug/l
 RT: 3.70 min Scan# 311
 Delta R.T. -0.03 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	0.0#
130	81.3	76.9	115.3

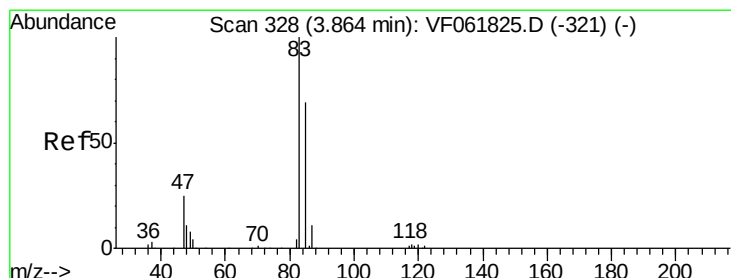
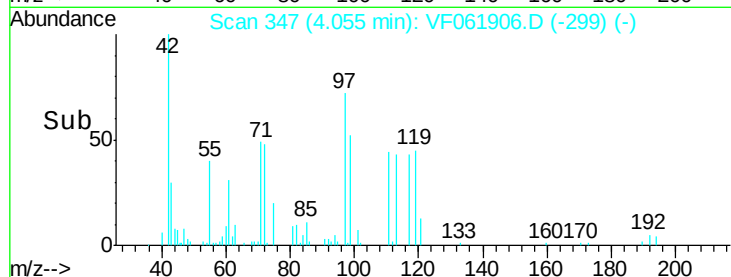
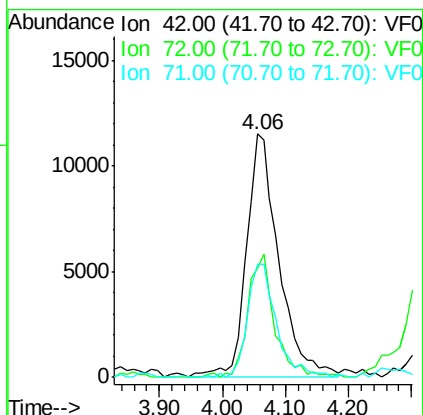
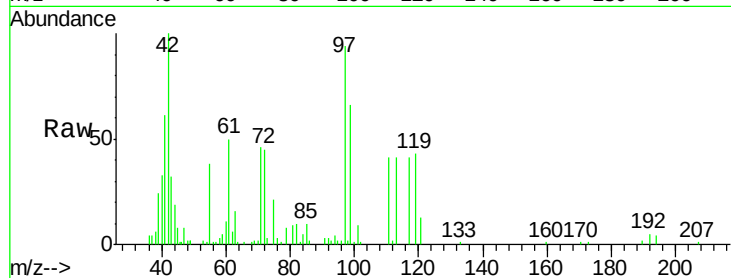




#29
Tetrahydrofuran
Concen: 100.793 ug/l
RT: 4.06 min Scan# 347
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

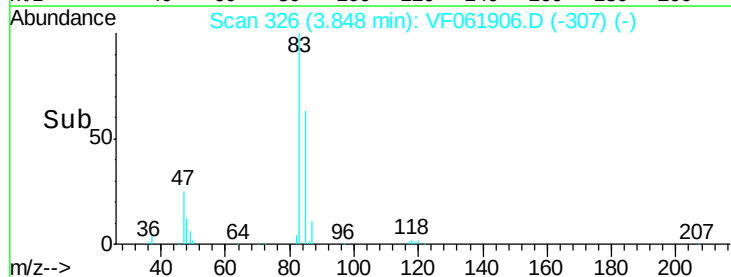
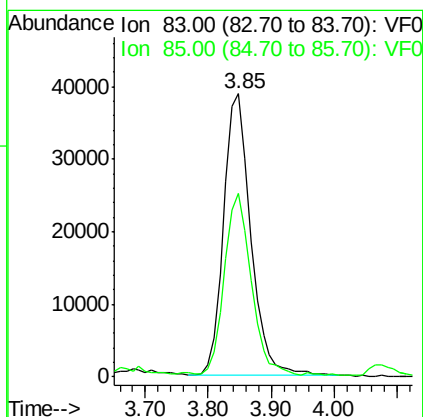
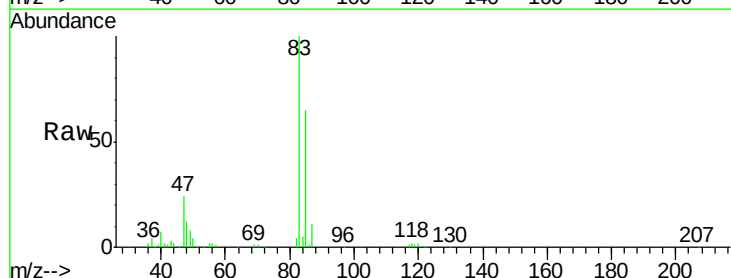
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

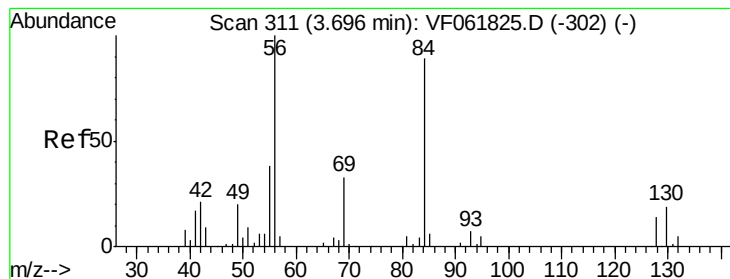
Tot Ion: 42 Resp: 41205
Ion Ratio Lower Upper
42 100
72 41.9 34.4 51.6
71 41.9 34.6 52.0



#30
Chloroform
Concen: 22.643 ug/l
RT: 3.85 min Scan# 326
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 83 Resp: 115742
Ion Ratio Lower Upper
83 100
85 64.9 55.3 82.9





#31

Cyclohexane

Concen: 23.148 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

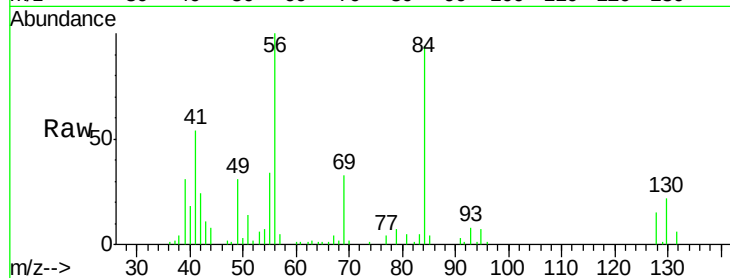
Tot Ion: 56 Resp: 108501

Ion Ratio Lower Upper

56 100

69 32.5 26.0 39.0

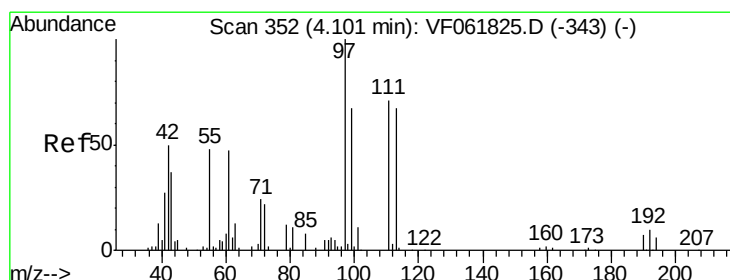
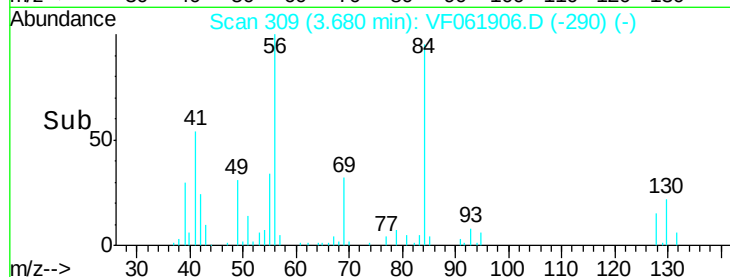
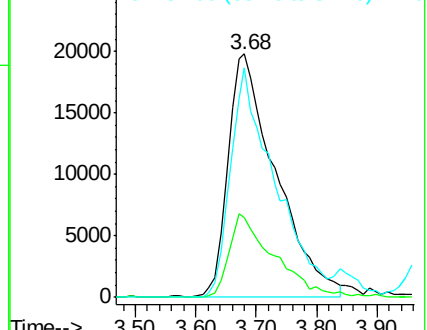
84 94.3 71.0 106.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 25.737 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

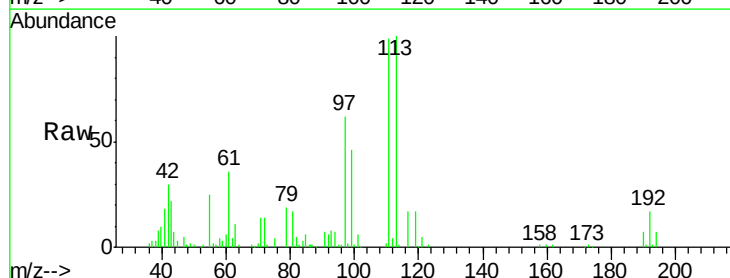
Tgt Ion: 97 Resp: 81090

Ion Ratio Lower Upper

97 100

99 74.8 53.8 80.8

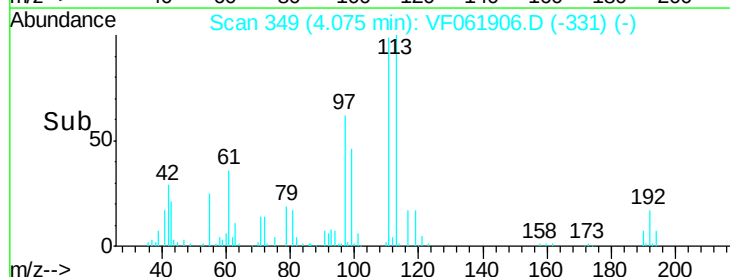
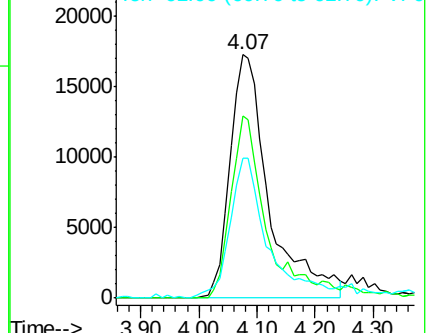
61 57.3 37.9 56.9#

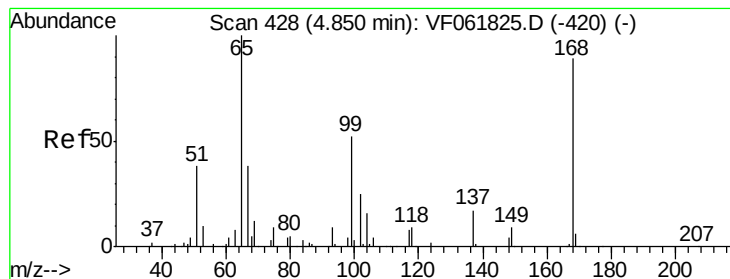


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 55.730 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

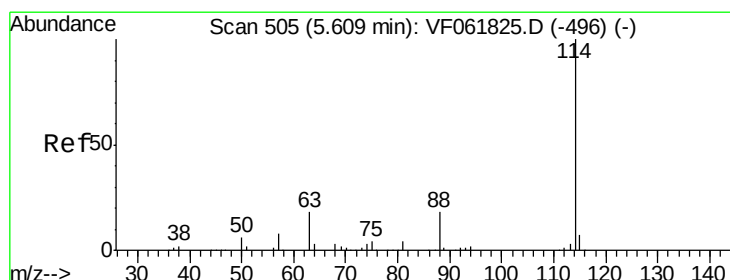
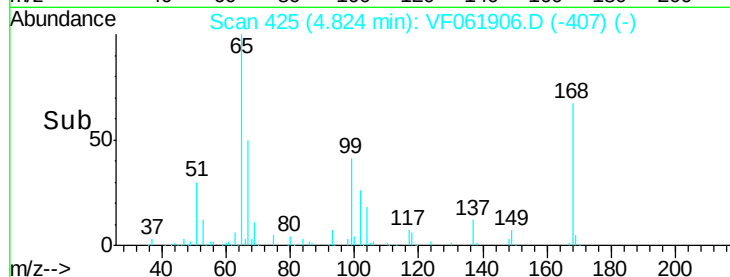
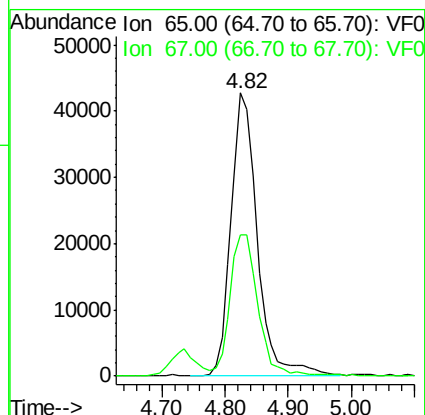
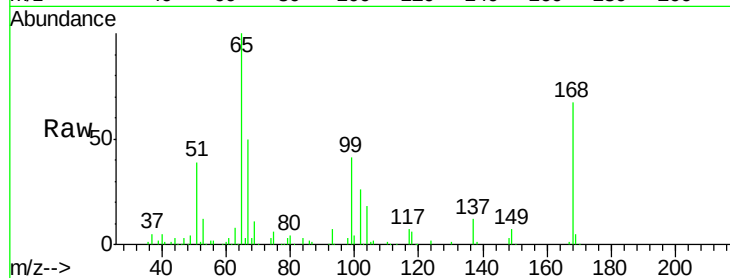
VF0312SBS01

Tot Ion: 65 Resp: 123984

Ion Ratio Lower Upper

65 100

67 49.9 0.0 108.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

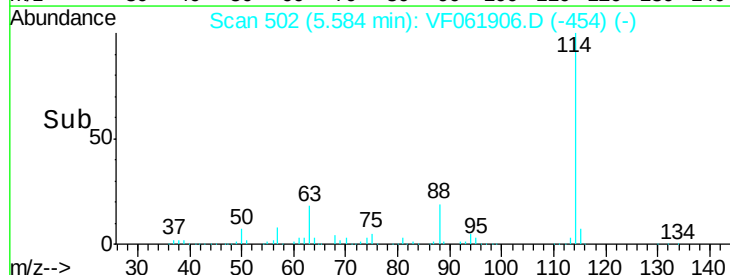
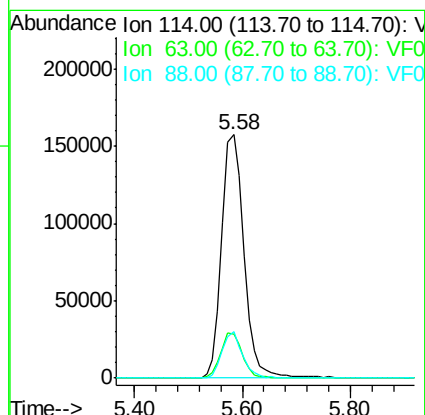
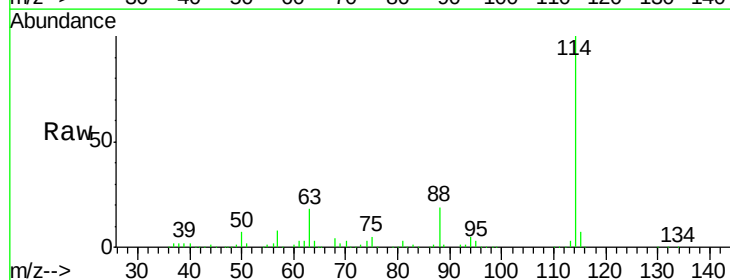
Tgt Ion: 114 Resp: 450783

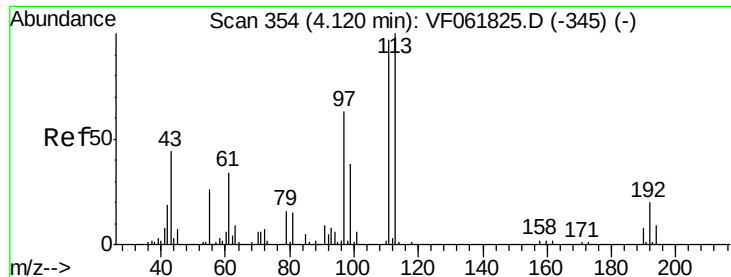
Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.6

88 18.9 0.0 35.6





#35

Dibromofluoromethane

Concen: 54.245 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

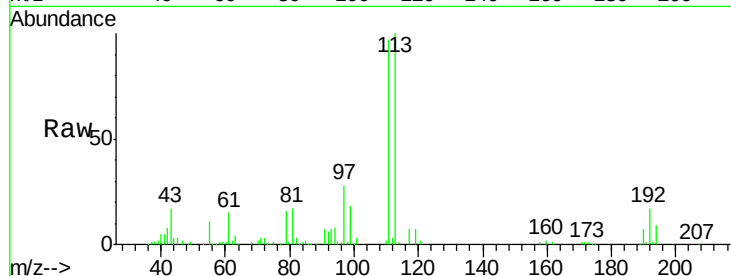
Tot Ion:113 Resp: 170647

Ion Ratio Lower Upper

113 100

111 96.9 77.6 116.4

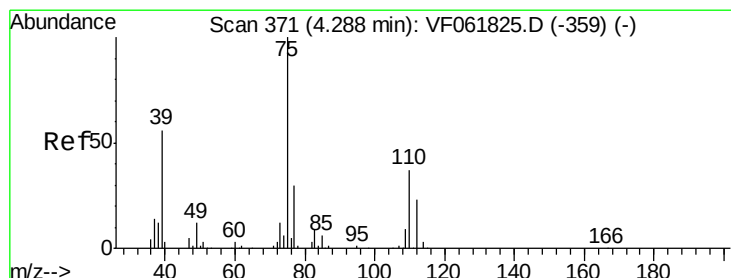
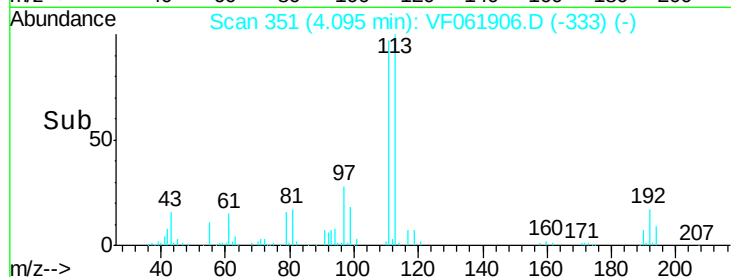
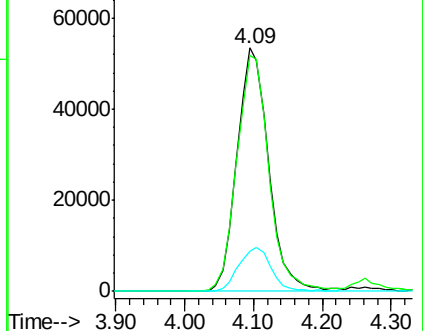
192 16.5 15.9 23.9



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 21.801 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

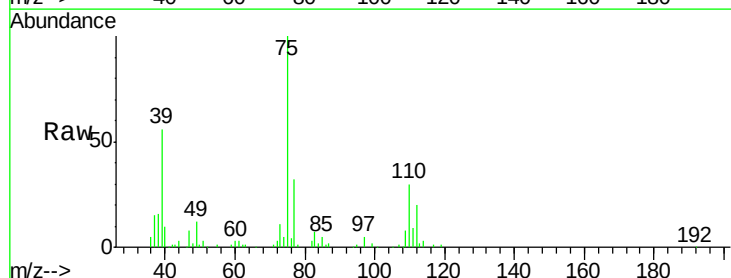
Tgt Ion: 75 Resp: 92834

Ion Ratio Lower Upper

75 100

110 30.2 18.6 55.6

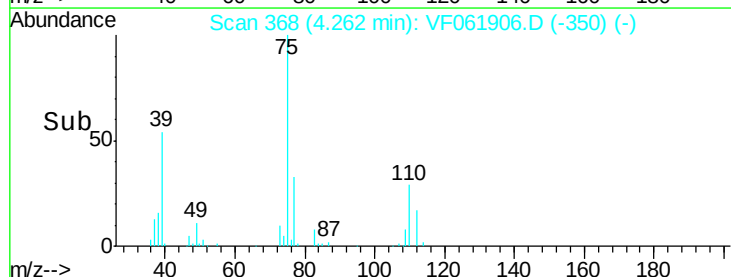
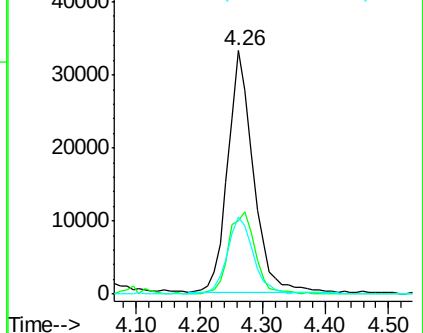
77 31.7 24.2 36.2

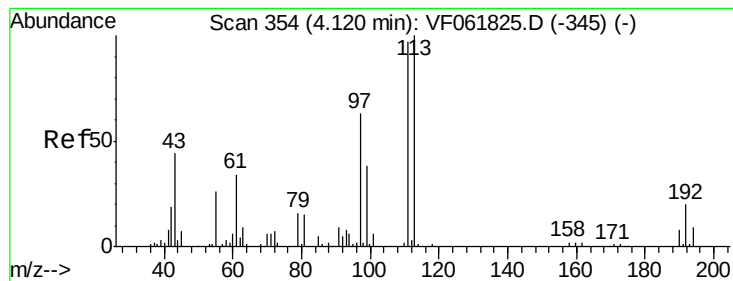


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 20.339 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

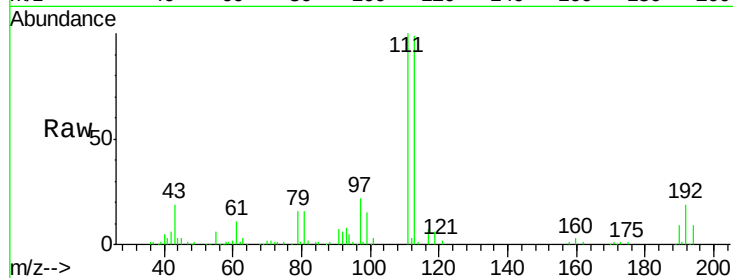
Tot Ion: 43 Resp: 36352

Ion Ratio Lower Upper

43 100

61 59.2 60.7 91.1#

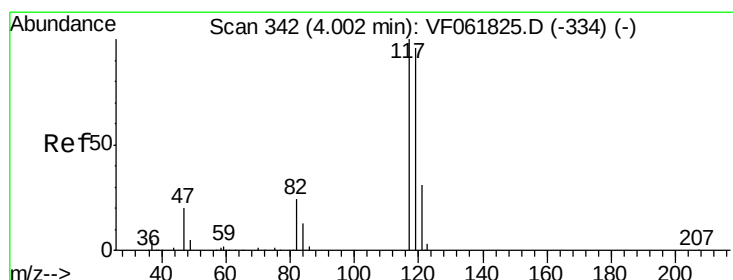
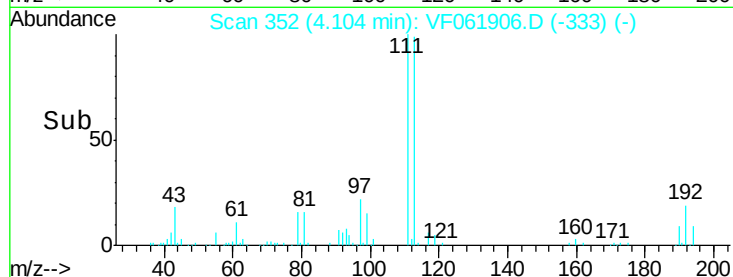
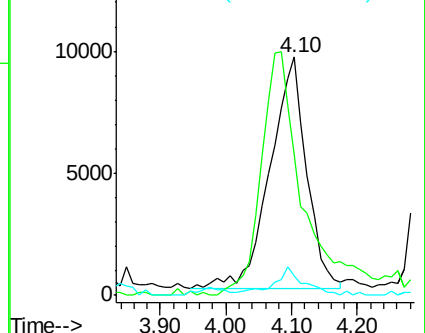
70 8.2 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 25.610 ug/l

RT: 3.98 min Scan# 339

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

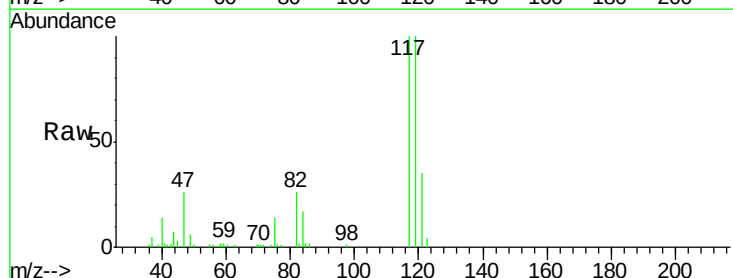
Tgt Ion: 117 Resp: 77198

Ion Ratio Lower Upper

117 100

119 99.8 76.6 114.8

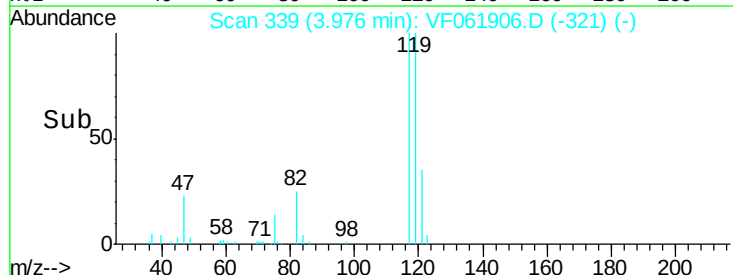
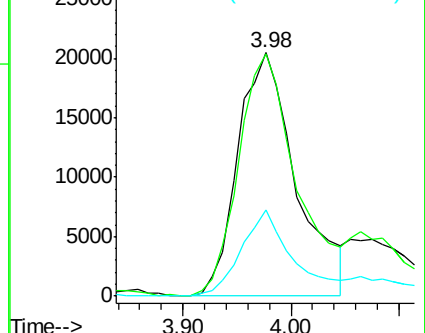
121 35.1 24.4 36.6

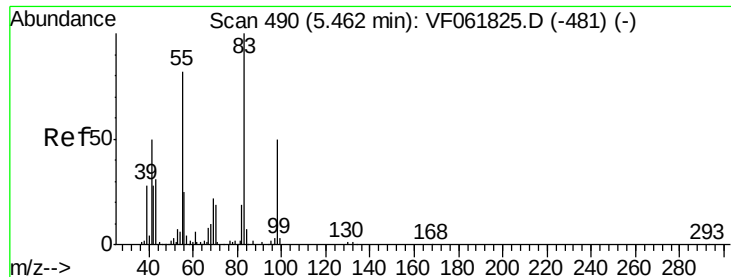


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

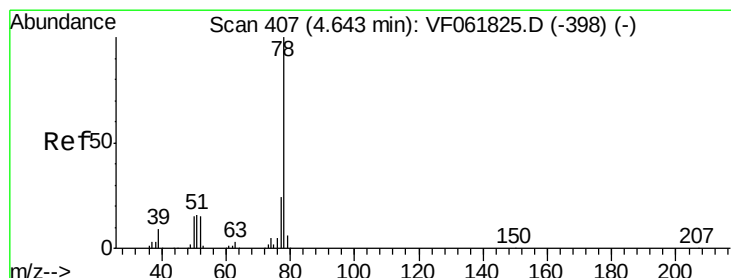
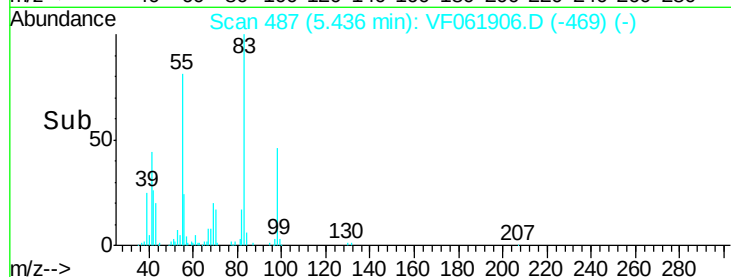
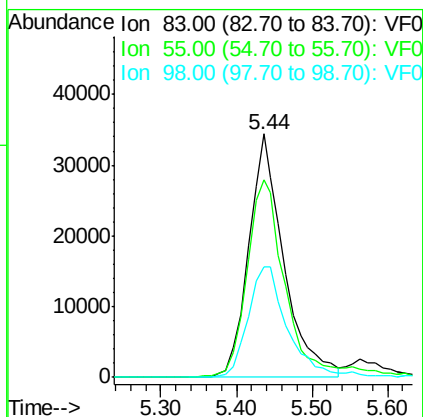
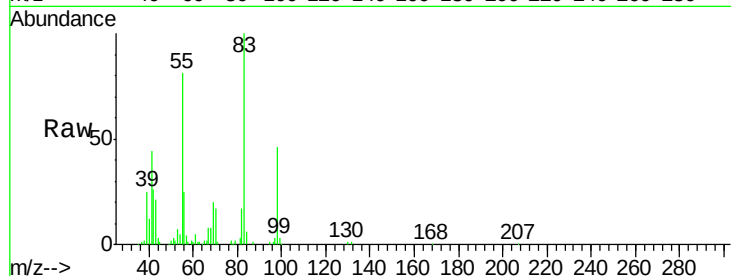




#39
Methylvlcyclohexane
Concen: 22.032 ug/l
RT: 5.44 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

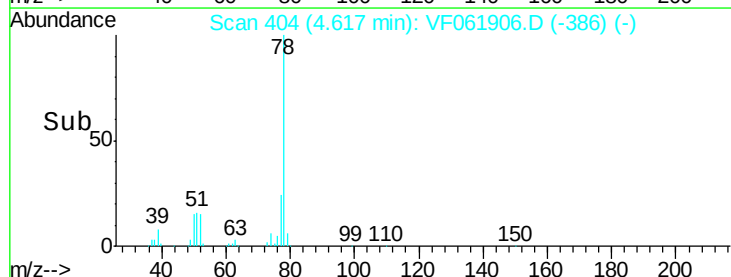
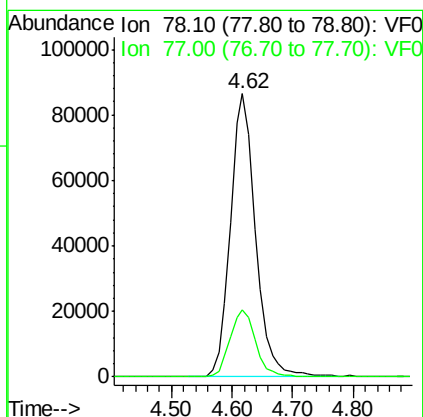
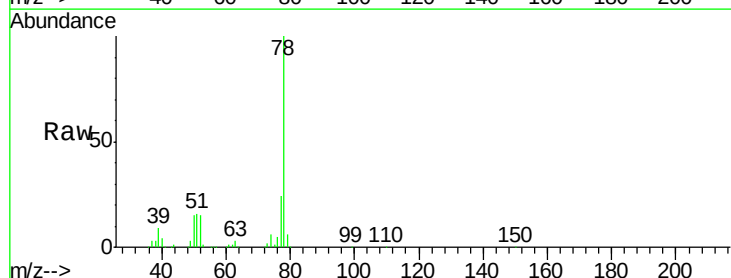
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

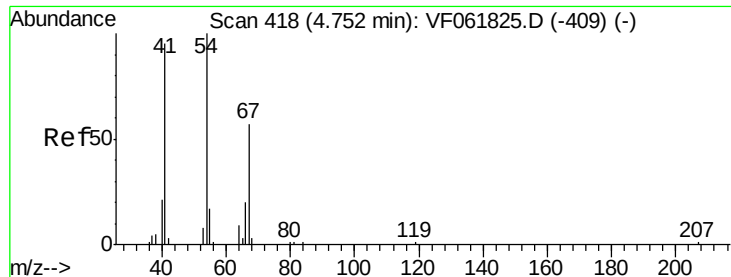
Tot Ion: 83 Resp: 110812
Ion Ratio Lower Upper
83 100
55 81.4 66.0 99.0
98 45.5 39.8 59.6



#40
Benzene
Concen: 22.398 ug/l
RT: 4.62 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 78 Resp: 249293
Ion Ratio Lower Upper
78 100
77 23.6 19.5 29.3

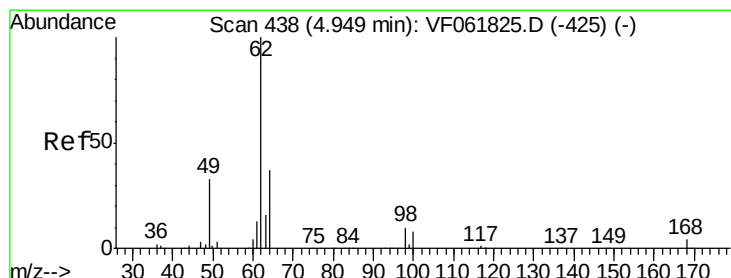
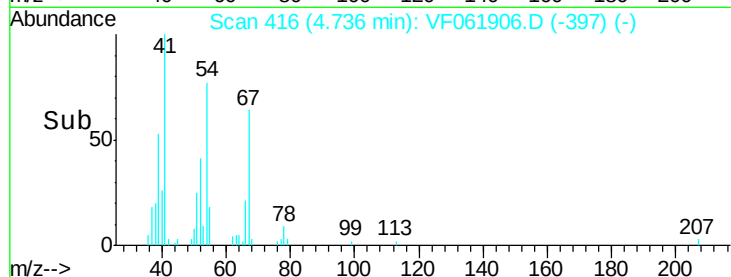
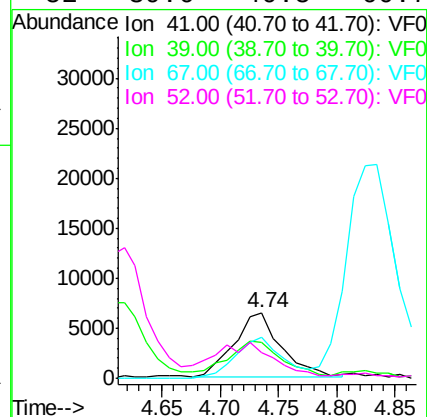
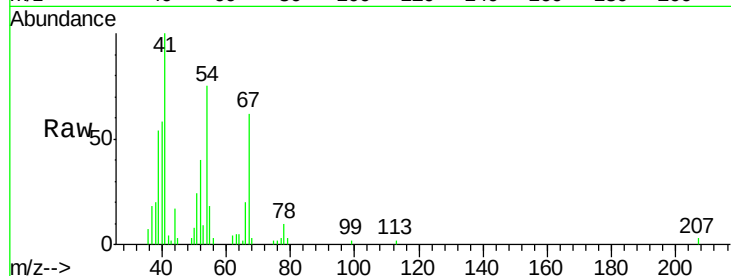




#41
Methacrylonitrile
Concen: 18.088 ug/l
RT: 4.74 min Scan# 416
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

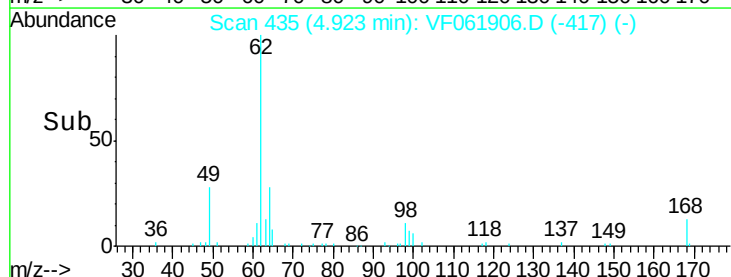
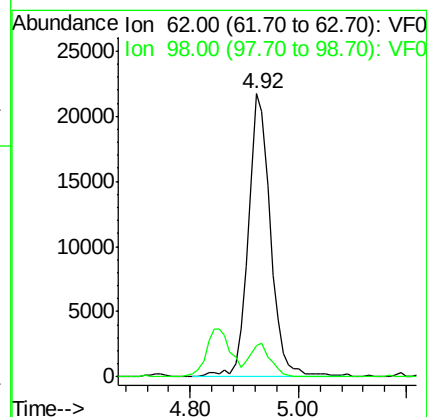
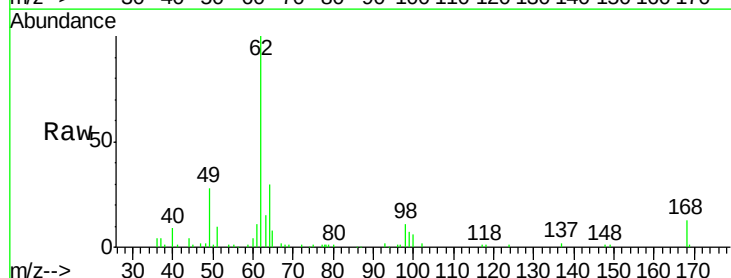
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

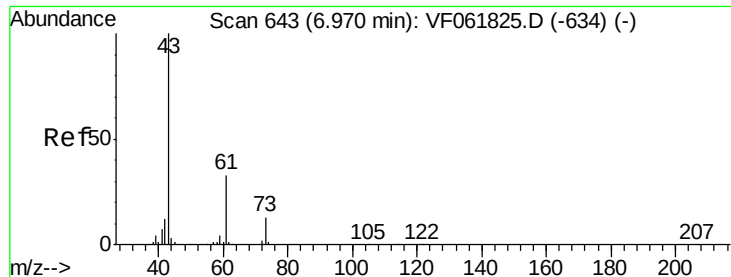
Tot Ion:	41	Resp:	17712
Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.0	64.6
67	62.5	47.8	71.8
52	39.6	40.5	60.7#



#42
1,2-Dichloroethane
Concen: 22.330 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion:	62	Resp:	61940
Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.0





#43

Isopropyl Acetate

Concen: 19.870 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

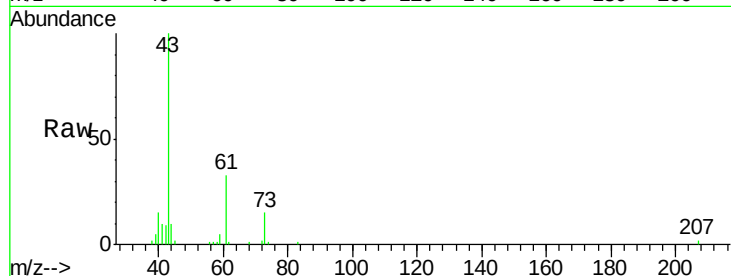
Tot Ion: 43 Resp: 43777

Ion Ratio Lower Upper

43 100

61 32.8 26.1 39.1

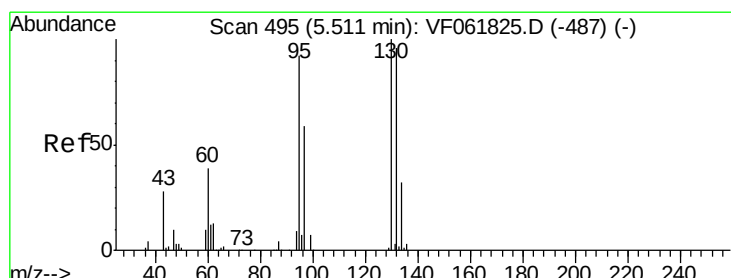
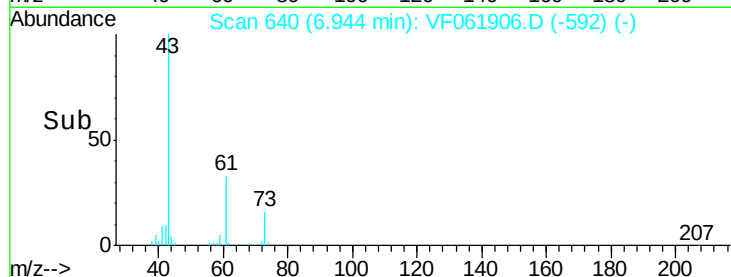
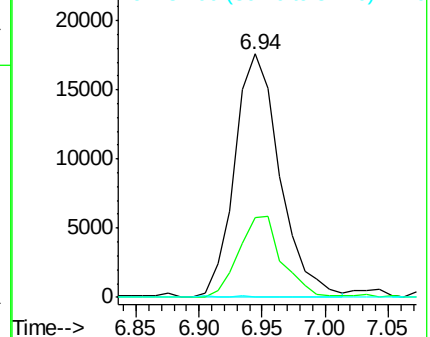
87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 21.348 ug/l

RT: 5.48 min Scan# 492

Delta R.T. -0.03 min

Lab File: VF061906.D

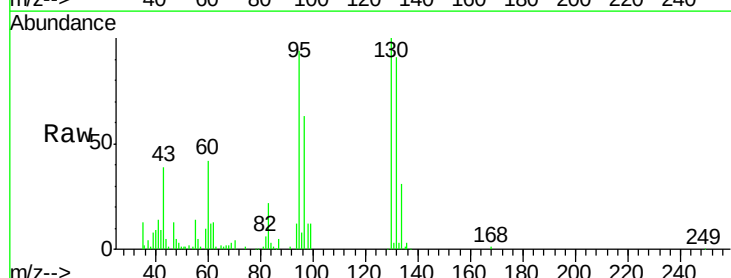
Acq: 12 Mar 2019 15:43

Tgt Ion:130 Resp: 73840

Ion Ratio Lower Upper

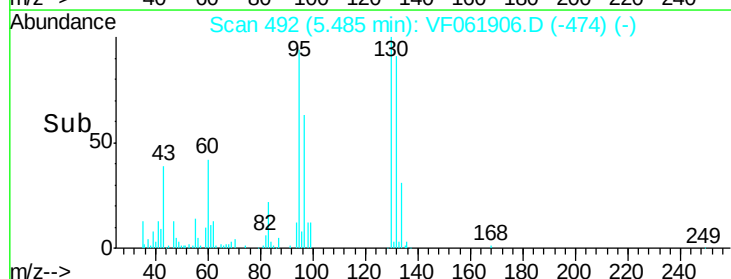
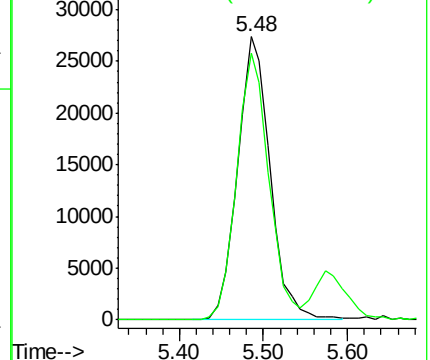
130 100

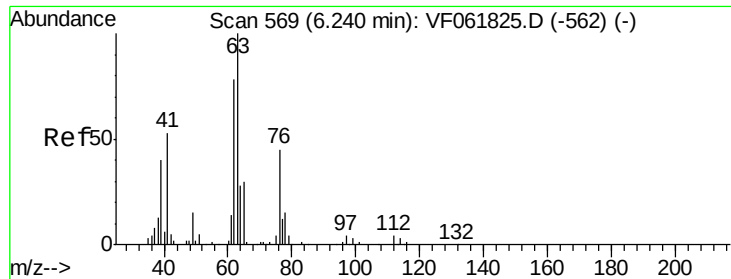
95 94.4 0.0 184.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 21.924 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

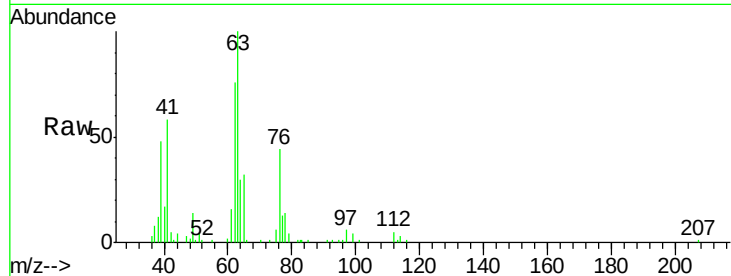
VF0312SBS01

Tot Ion: 63 Resp: 58027

Ion Ratio Lower Upper

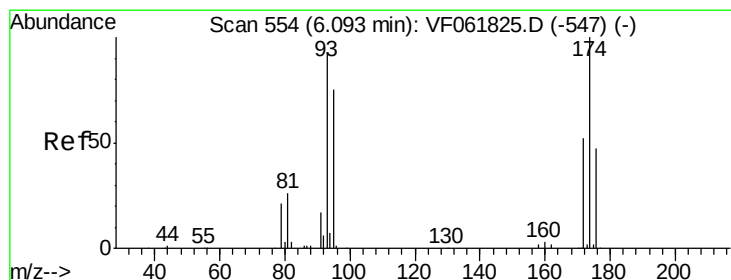
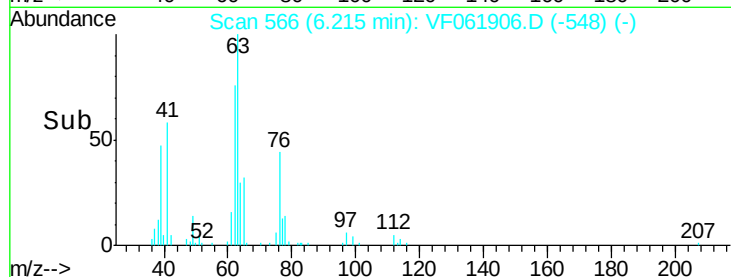
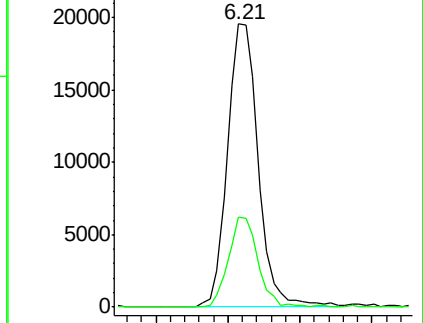
63 100

65 31.8 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: 21.182 ug/l

RT: 6.07 min Scan# 551

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

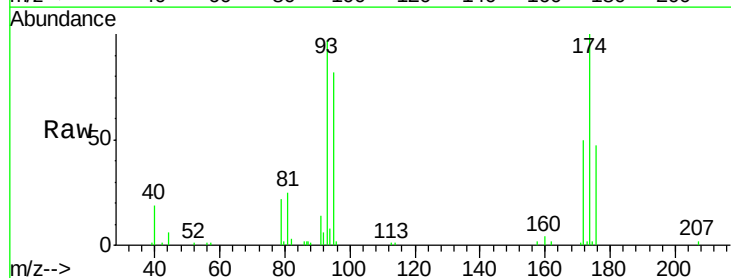
Tgt Ion: 93 Resp: 35283

Ion Ratio Lower Upper

93 100

95 84.8 64.4 96.6

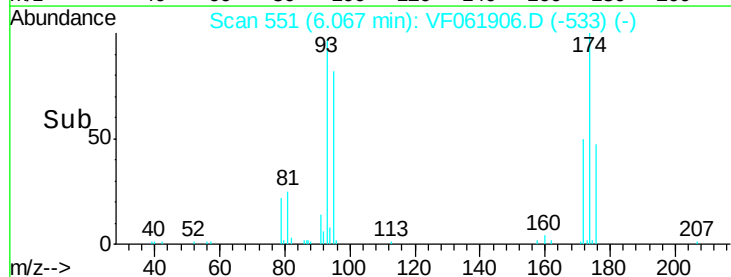
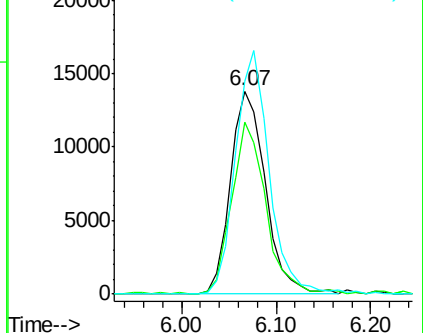
174 104.8 85.8 128.6

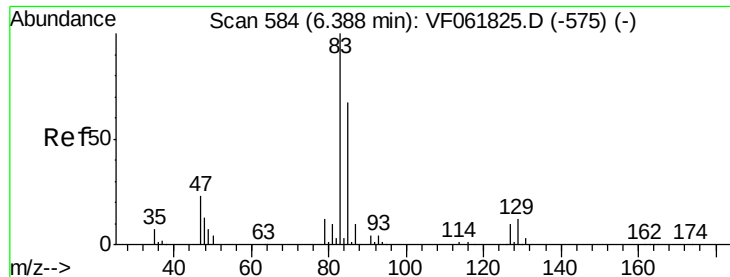


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 21.470 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

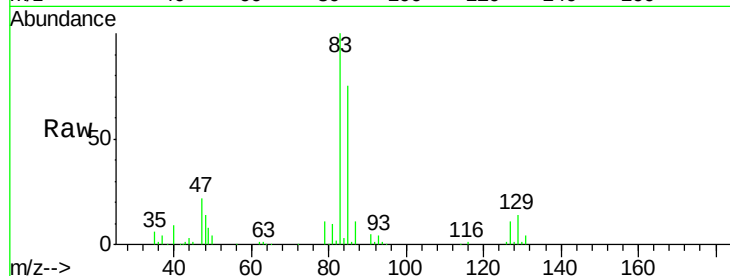
Tot Ion: 83 Resp: 79011

Ion Ratio Lower Upper

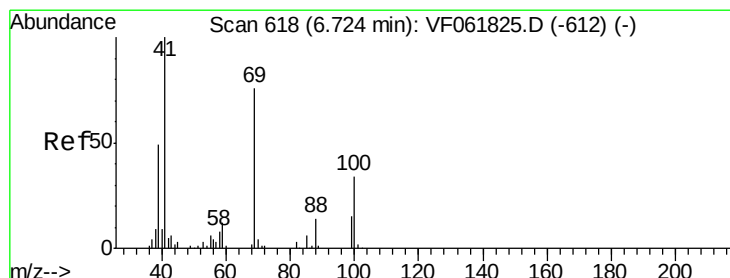
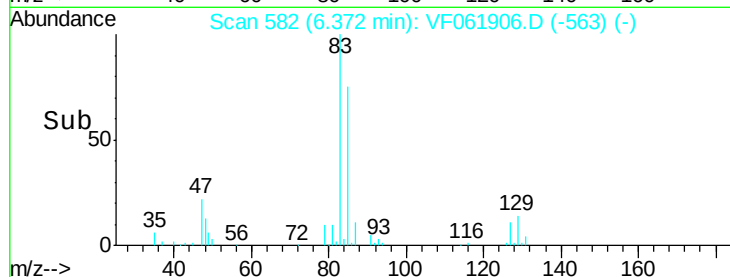
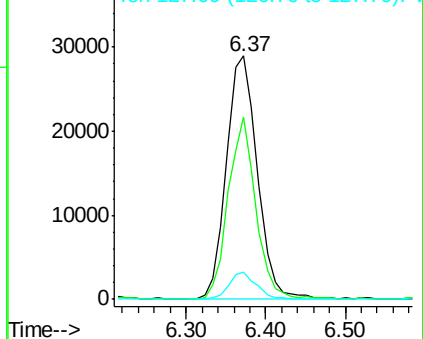
83 100

85 74.9 53.6 80.4

127 11.1 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 20.181 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

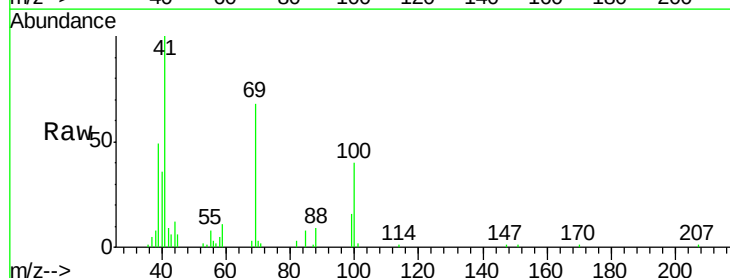
Tgt Ion: 41 Resp: 28138

Ion Ratio Lower Upper

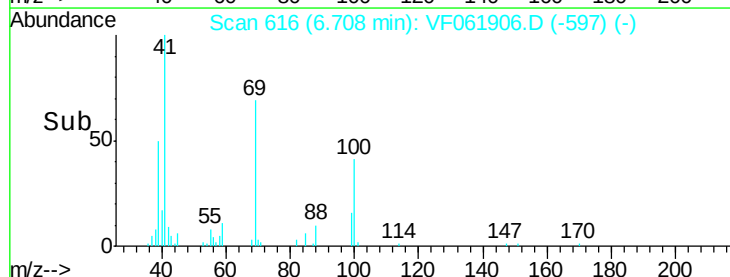
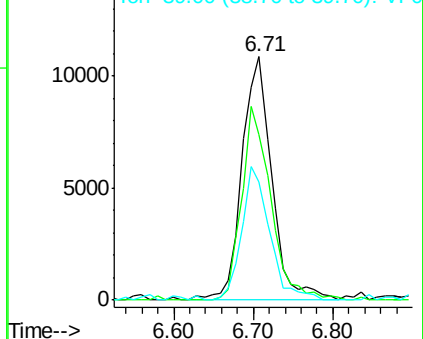
41 100

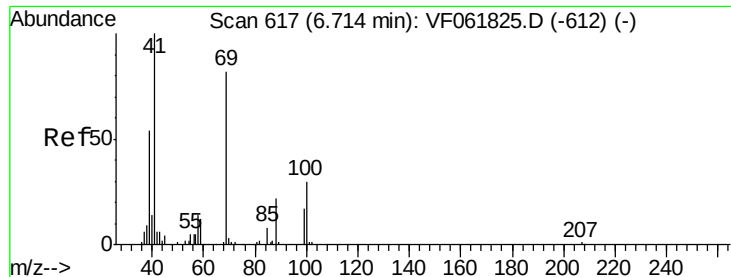
69 68.1 60.4 90.6

39 48.7 39.7 59.5



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

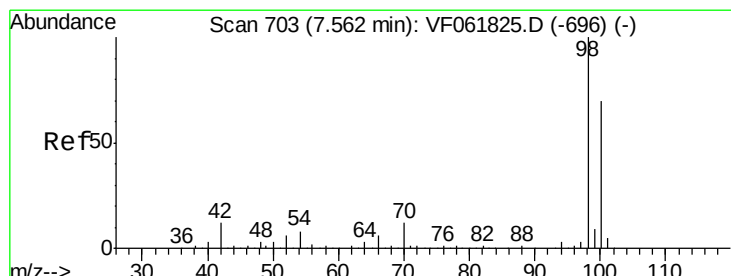
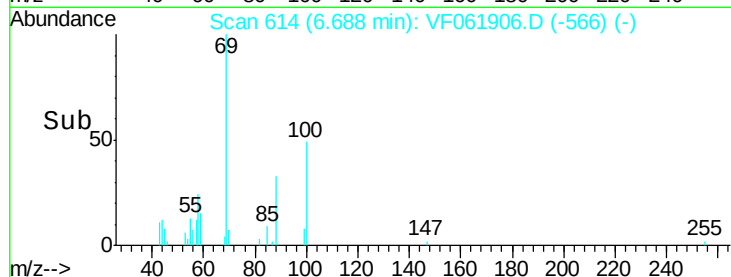
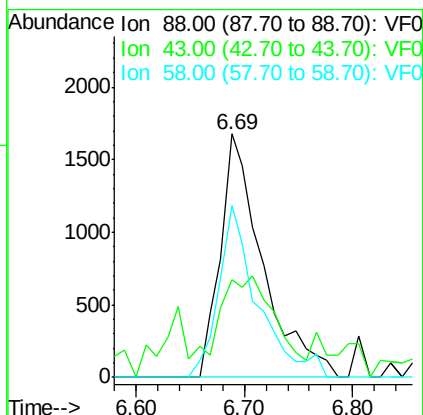
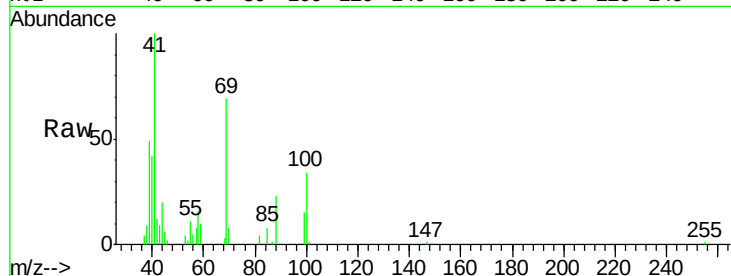




#49
1,4-Dioxane
Concen: 358.386 ug/l
RT: 6.69 min Scan# 614
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

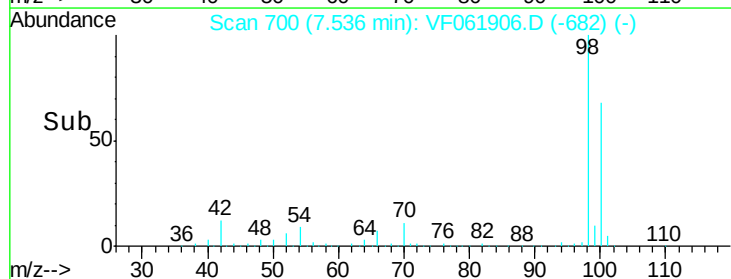
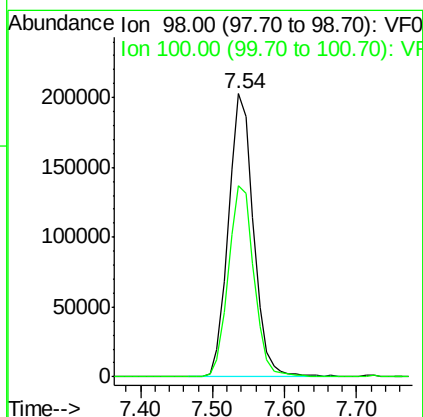
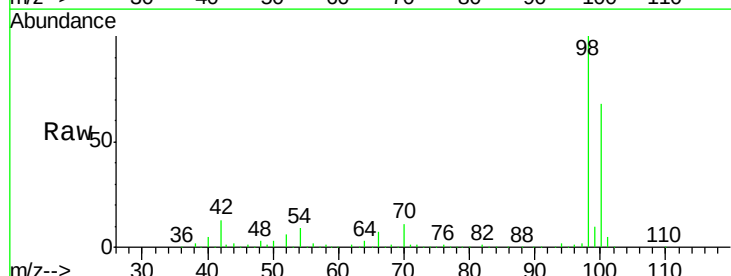
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

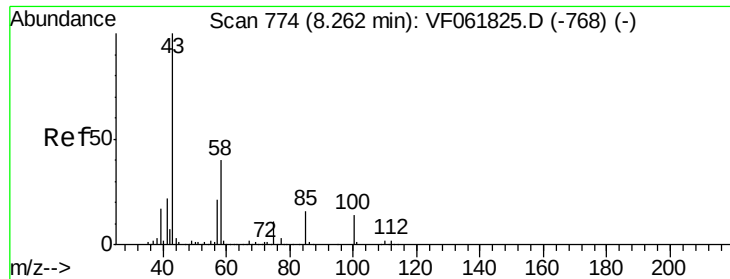
Tot Ion: 88 Resp: 4568
Ion Ratio Lower Upper
88 100
43 40.3 28.4 42.6
58 70.5 50.7 76.1



#50
Toluene-d8
Concen: 52.677 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 98 Resp: 492551
Ion Ratio Lower Upper
98 100
100 67.7 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 108.141 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

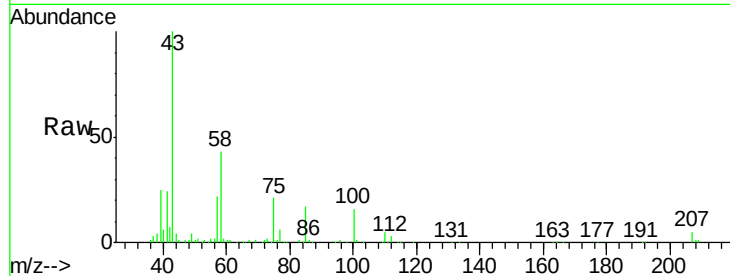
VF0312SBS01

Tot Ion: 43 Resp: 164663

Ion Ratio Lower Upper

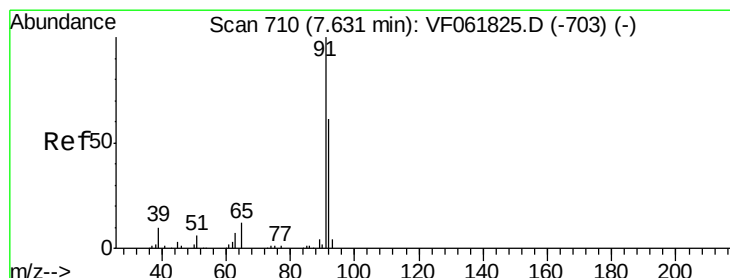
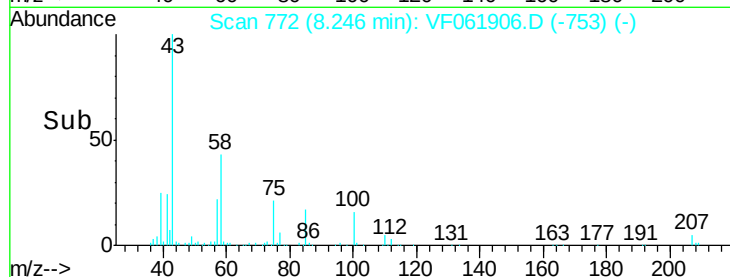
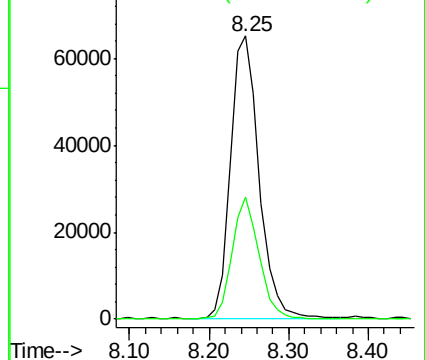
43 100

58 43.3 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.543 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061906.D

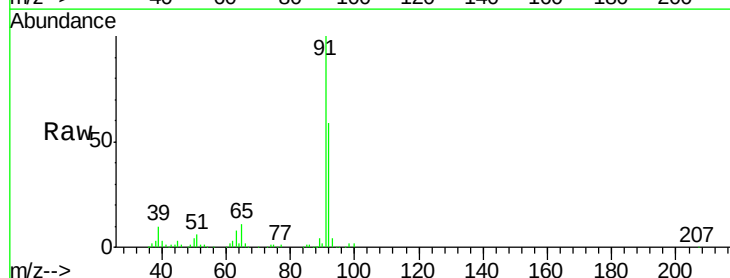
Acq: 12 Mar 2019 15:43

Tgt Ion: 92 Resp: 148434

Ion Ratio Lower Upper

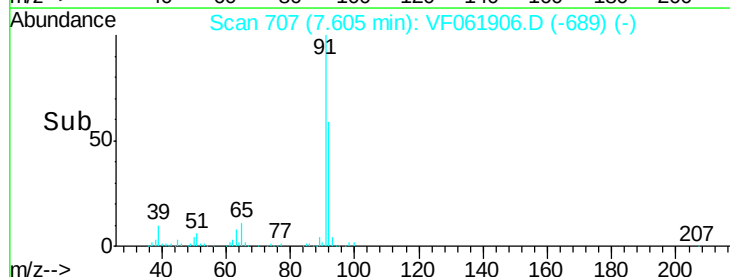
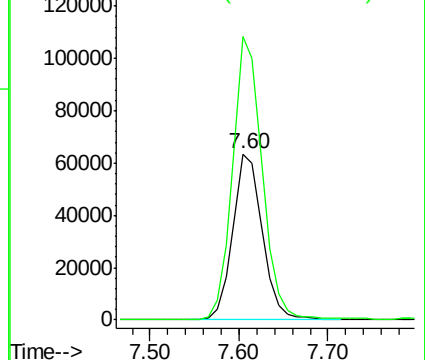
92 100

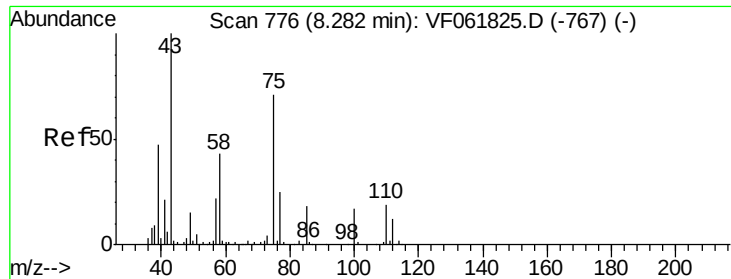
91 170.3 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.977 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

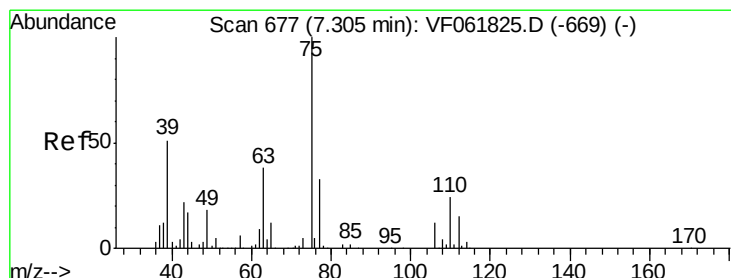
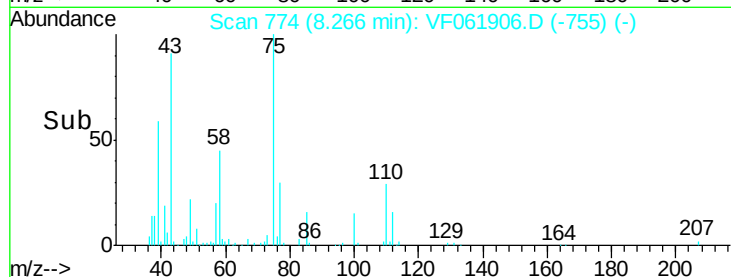
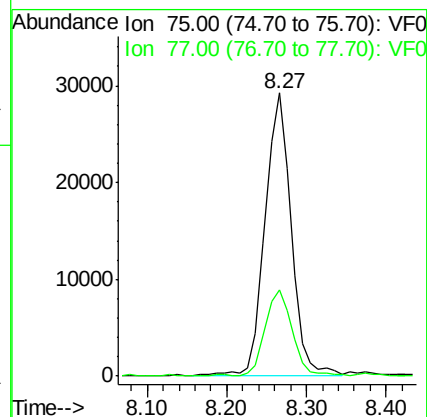
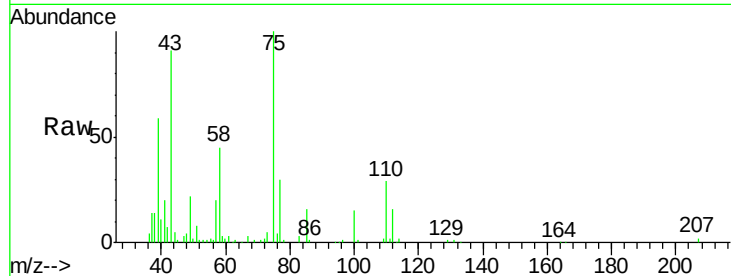
VF0312SBS01

Tot Ion: 75 Resp: 66760

Ion Ratio Lower Upper

75 100

77 30.4 28.0 42.0



#54

cis-1,3-Dichloropropene

Concen: 20.646 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

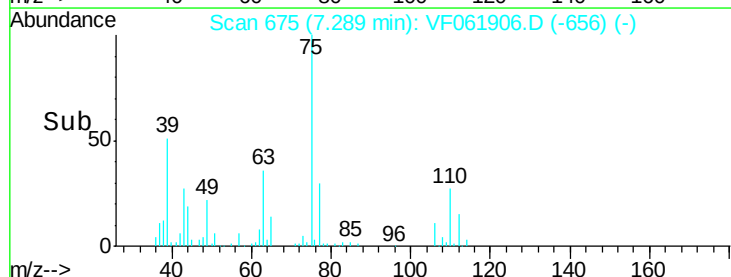
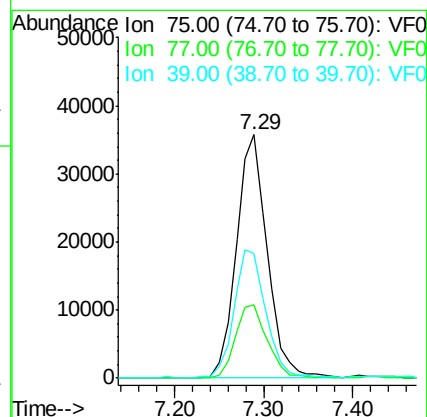
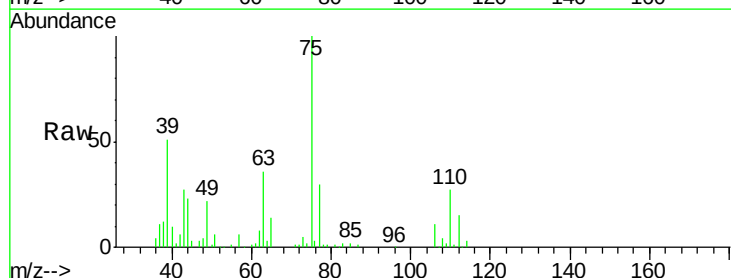
Tgt Ion: 75 Resp: 86507

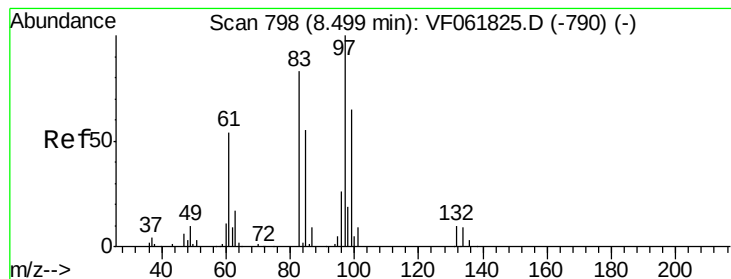
Ion Ratio Lower Upper

75 100

77 30.3 26.3 39.5

39 51.2 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 22.105 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

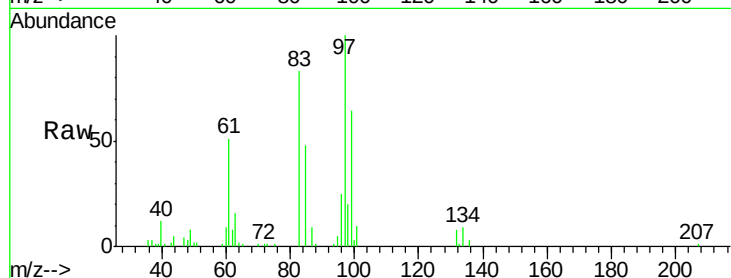
MSVOA_F

ClientSampleId :

VF0312SBS01

Tot Ion: 97 Resp: 41936

Ion	Ratio	Lower	Upper
97	100		
83	82.7	66.5	99.7
85	48.5	44.2	66.2
99	63.9	51.8	77.6

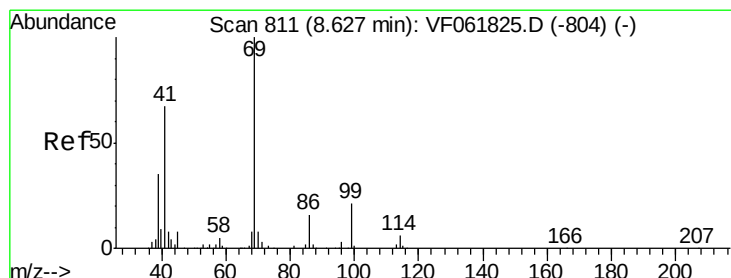
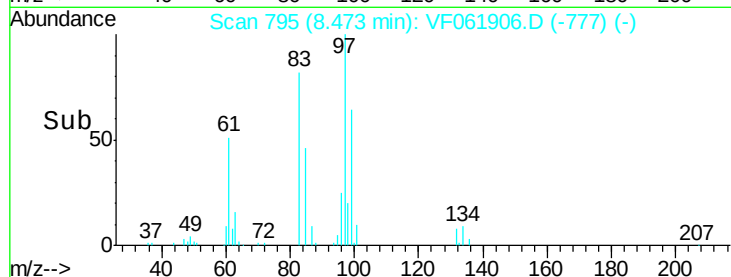


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 20.843 ug/l

RT: 8.61 min Scan# 809

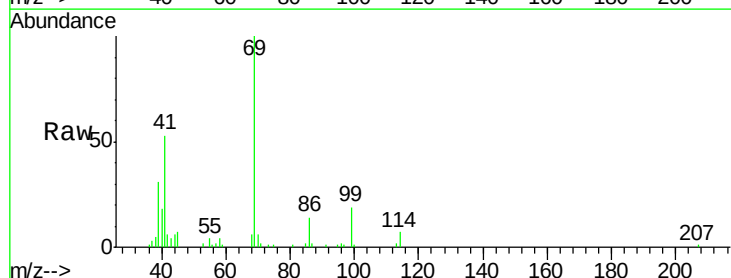
Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion: 69 Resp: 44564

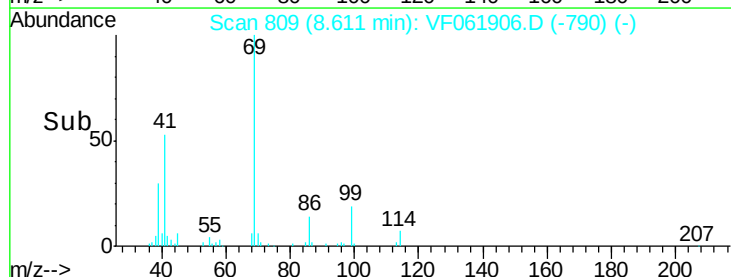
Ion	Ratio	Lower	Upper
69	100		
41	53.0	53.9	80.9#
39	30.9	28.3	42.5

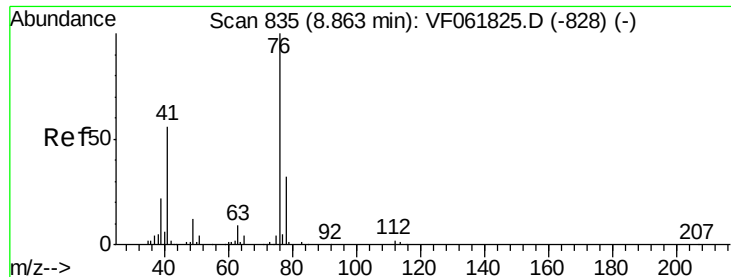


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.527 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

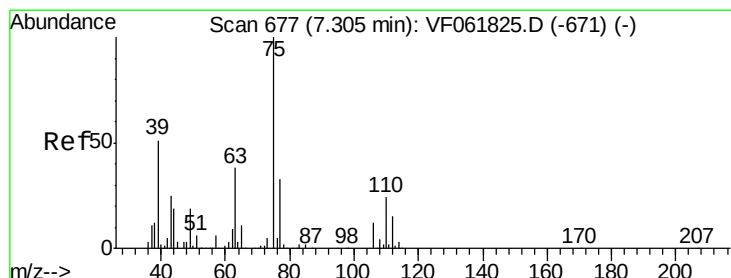
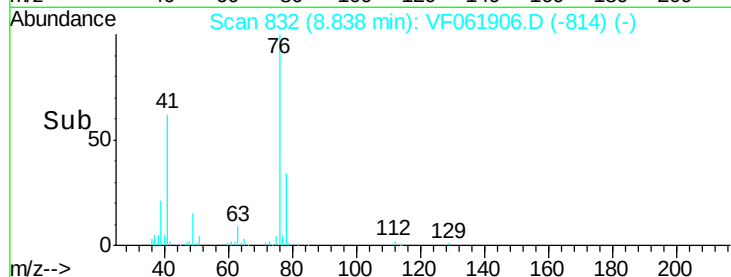
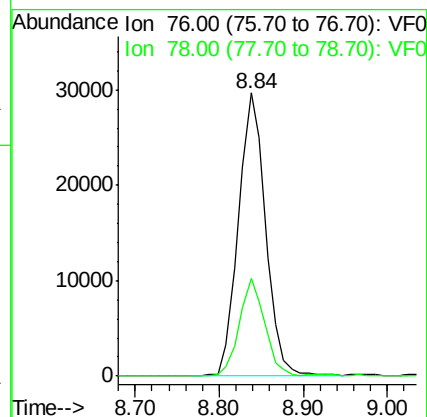
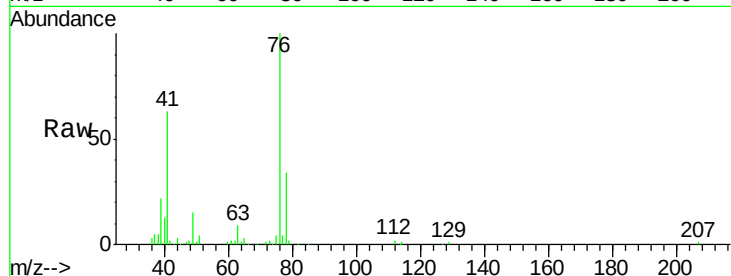
VF0312SBS01

Tot Ion: 76 Resp: 66789

Ion Ratio Lower Upper

76 100

78 34.4 25.4 38.2



#58

2-Chloroethyl Vinyl ether

Concen: 108.207 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061906.D

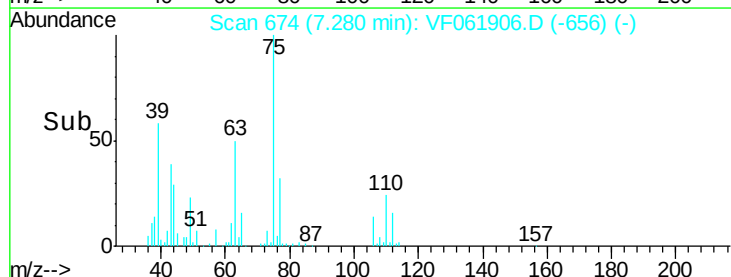
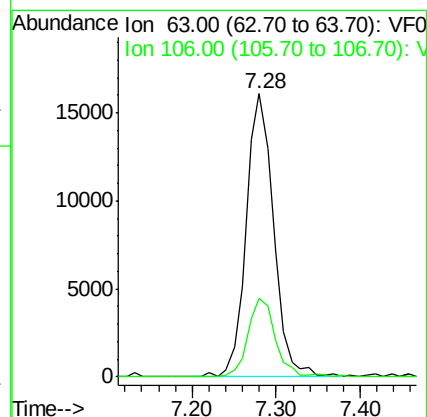
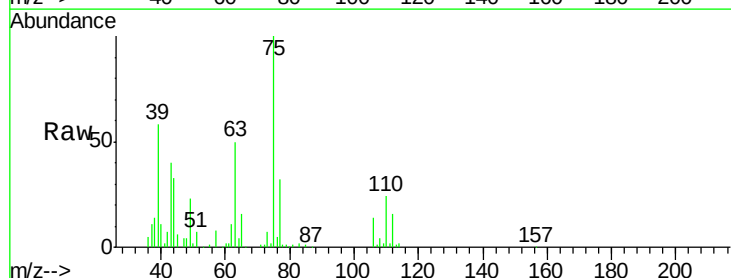
Acq: 12 Mar 2019 15:43

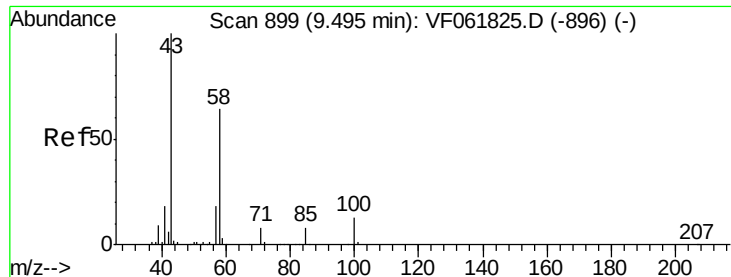
Tgt Ion: 63 Resp: 36598

Ion Ratio Lower Upper

63 100

106 27.8 24.3 36.5

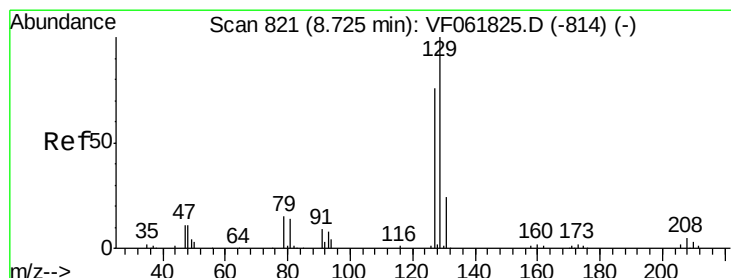
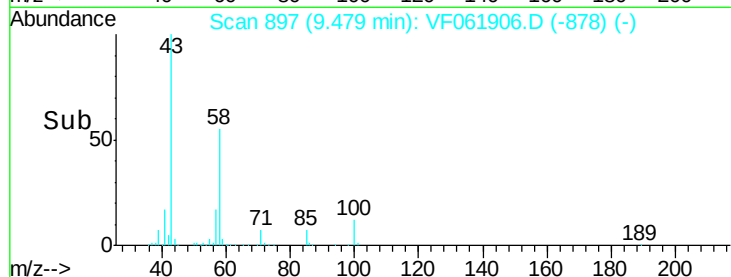
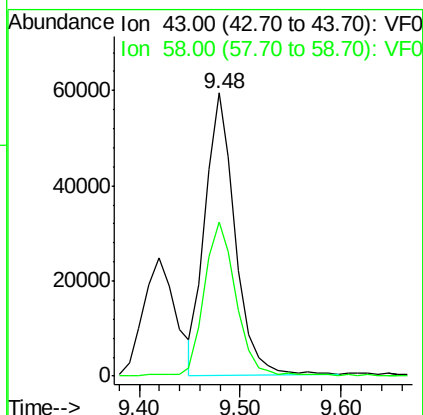
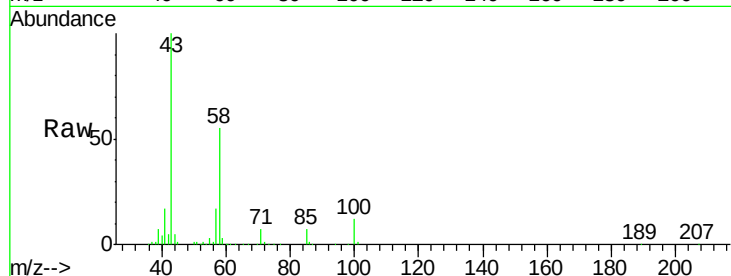




#59
2-Hexanone
Concen: 111.660 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

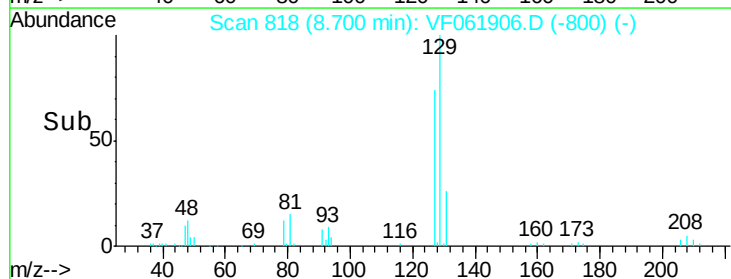
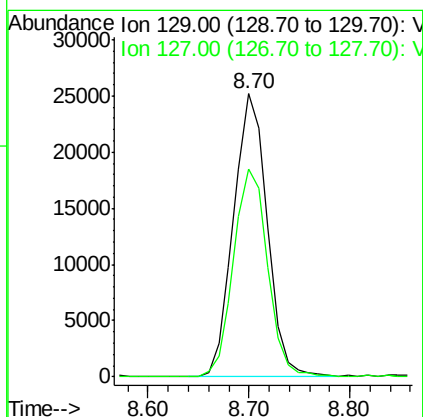
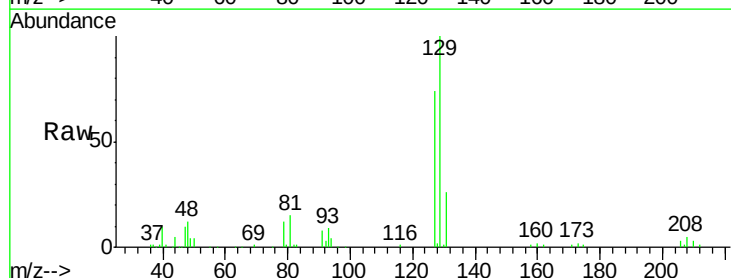
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

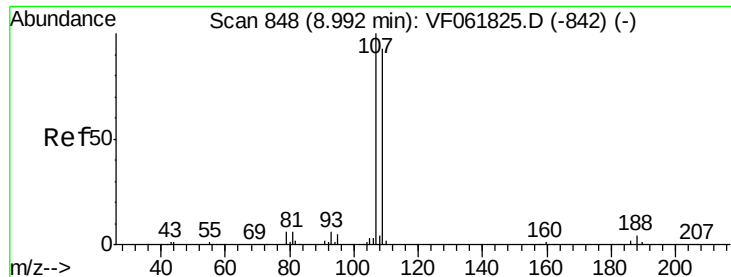
Tot Ion: 43 Resp: 122656
Ion Ratio Lower Upper
43 100
58 54.6 28.8 86.4



#60
Dibromochloromethane
Concen: 21.736 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion:129 Resp: 58773
Ion Ratio Lower Upper
129 100
127 73.6 38.2 114.6





#61

1,2-Dibromoethane

Concen: 21.204 ug/l

RT: 8.97 min Scan# 845

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

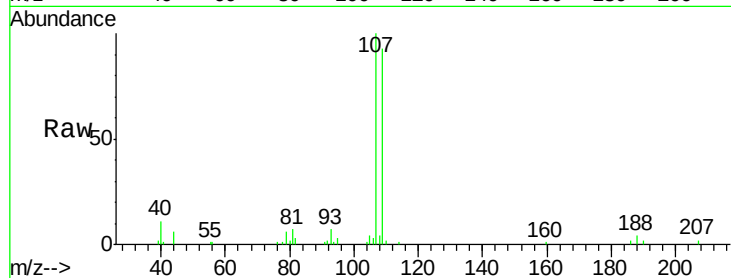
VF0312SBS01

Tot Ion:107 Resp: 44237

Ion Ratio Lower Upper

107 100

109 93.5 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.97

20000

15000

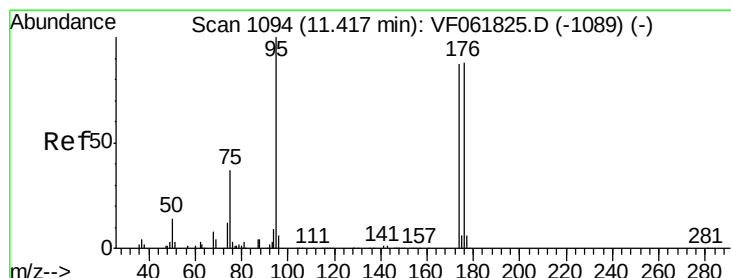
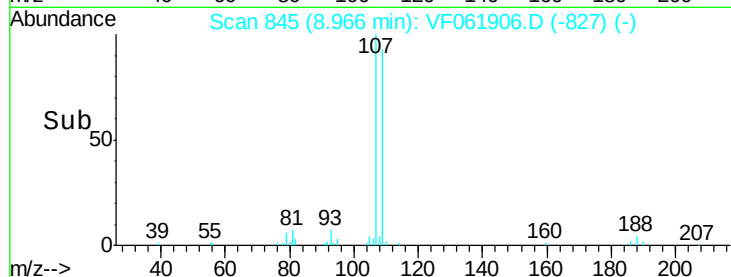
10000

5000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 55.446 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

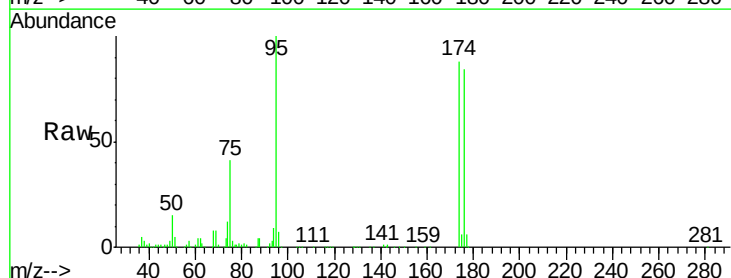
Tgt Ion: 95 Resp: 203090

Ion Ratio Lower Upper

95 100

174 87.9 0.0 174.0

176 84.0 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

11.40

150000

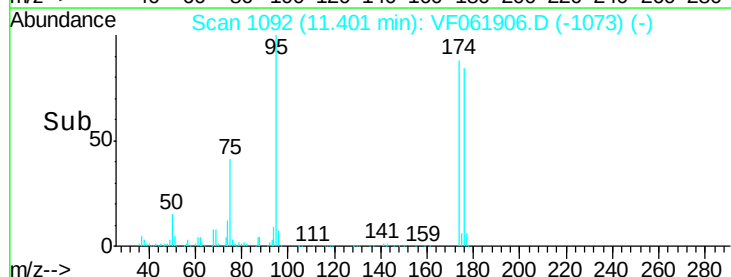
100000

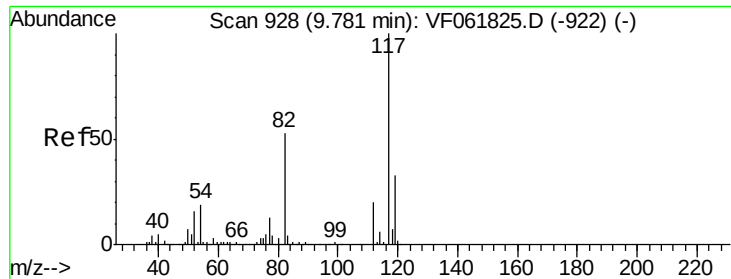
50000

0

Time-->

11.30 11.40 11.50

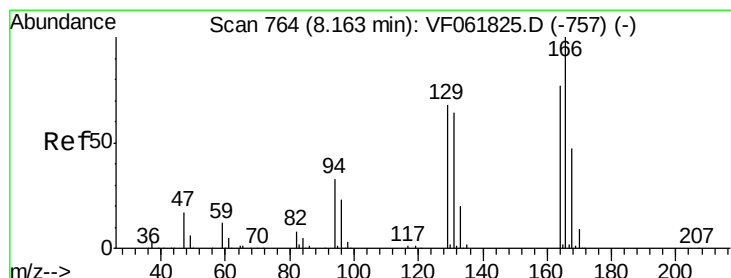
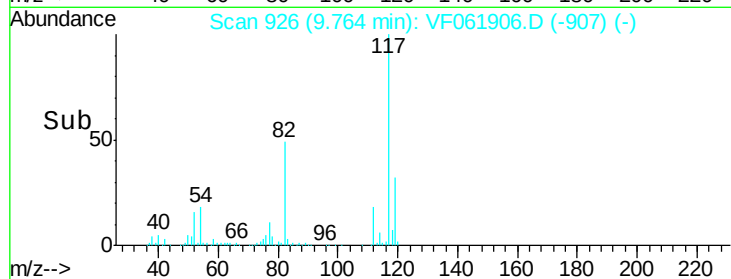
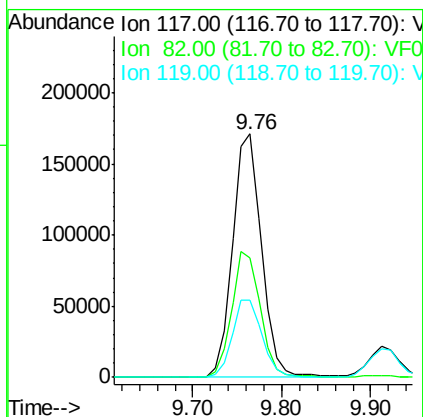
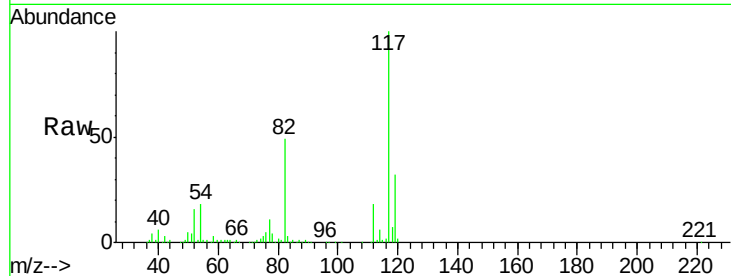




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

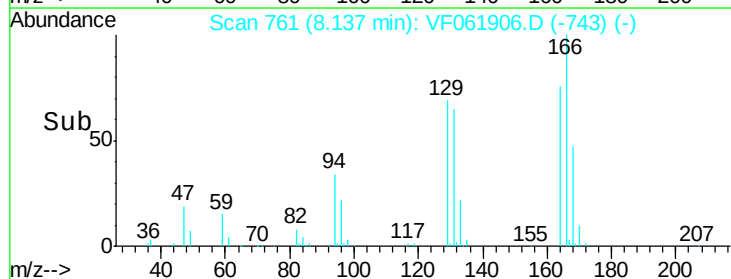
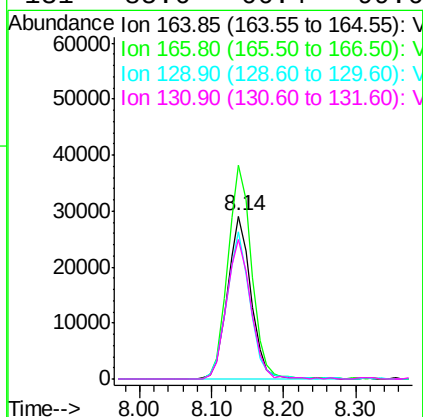
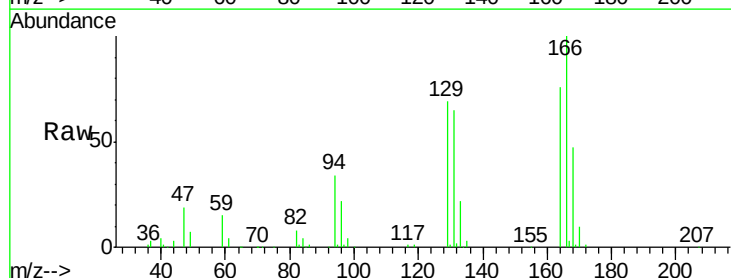
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

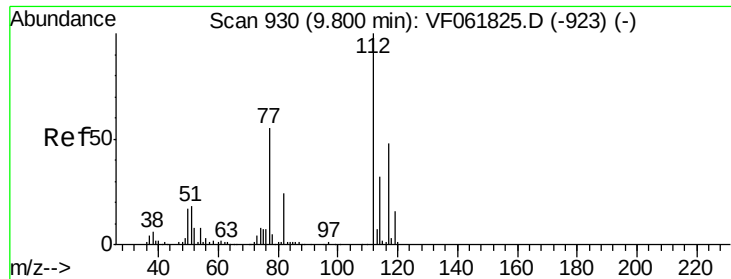
Tot Ion:117 Resp: 390695
Ion Ratio Lower Upper
117 100
82 49.2 42.6 63.8
119 31.9 26.0 39.0



#64
Tetrachloroethene
Concen: 21.982 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion:164 Resp: 65991
Ion Ratio Lower Upper
164 100
166 131.2 103.4 155.0
129 90.8 69.9 104.9
131 85.6 66.4 99.6

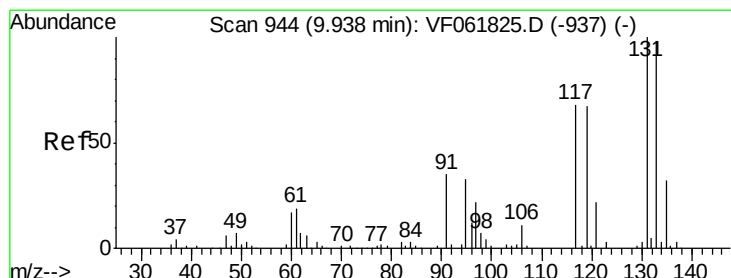
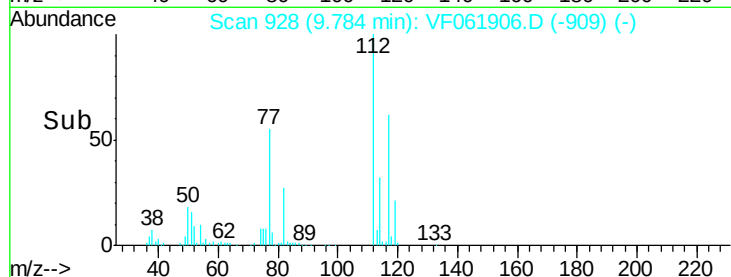
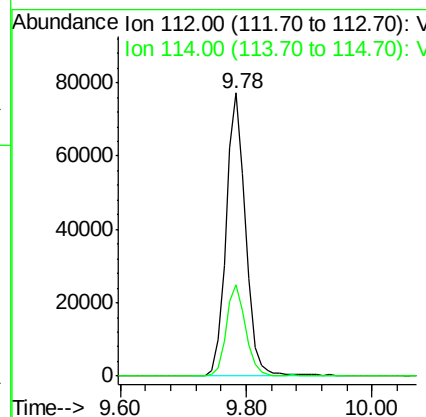
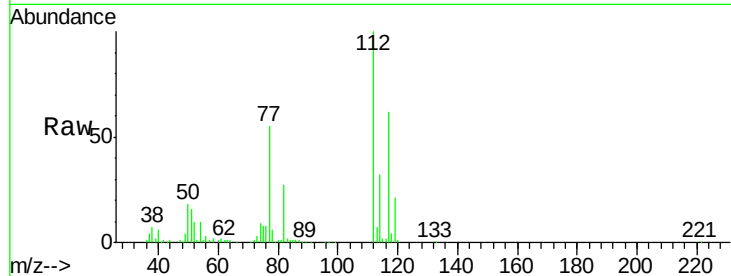




#65
Chlorobenzene
Concen: 22.160 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

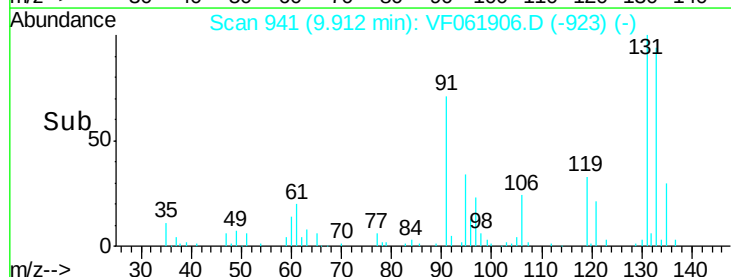
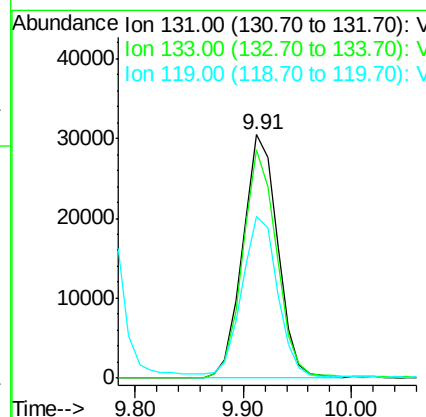
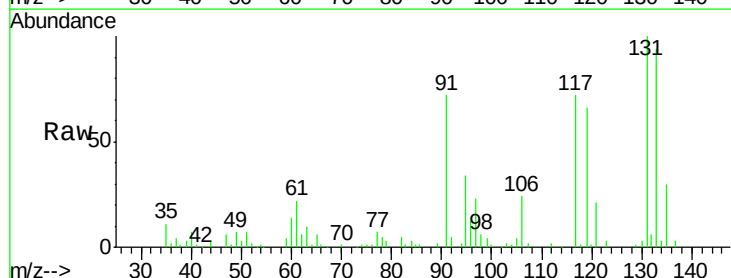
Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

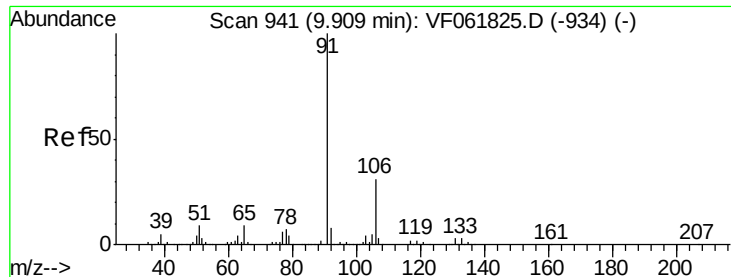
Tot Ion:112 Resp: 166337
Ion Ratio Lower Upper
112 100
114 32.5 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 23.614 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion:131 Resp: 68674
Ion Ratio Lower Upper
131 100
133 93.9 48.9 146.7
119 66.5 33.6 100.8





#67

Ethyl Benzene

Concen: 23.511 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

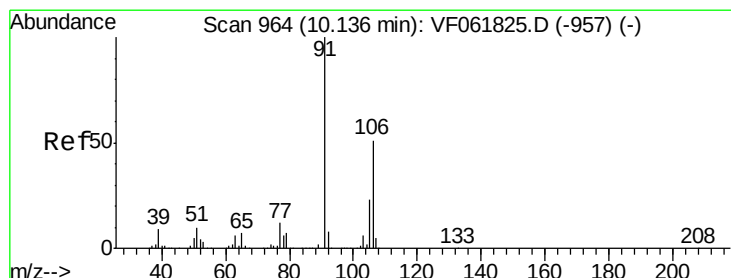
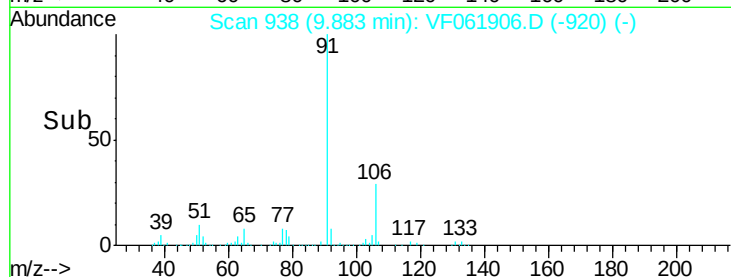
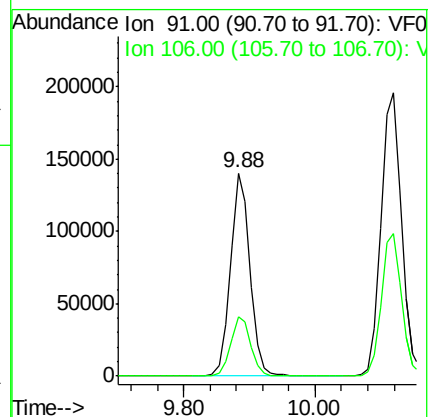
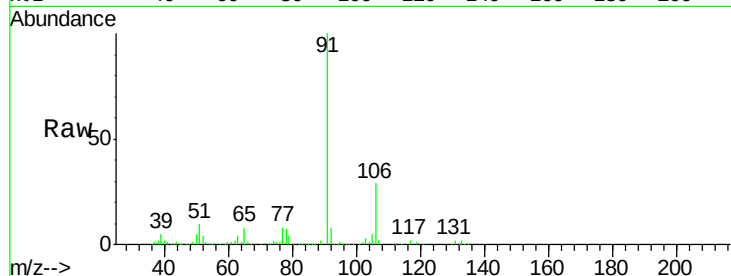
VF0312SBS01

Tot Ion: 91 Resp: 292505

Ion Ratio Lower Upper

91 100

106 29.3 25.0 37.4



#68

m/p-Xylenes

Concen: 45.470 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF061906.D

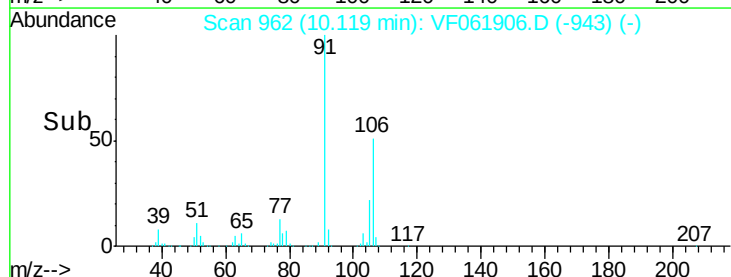
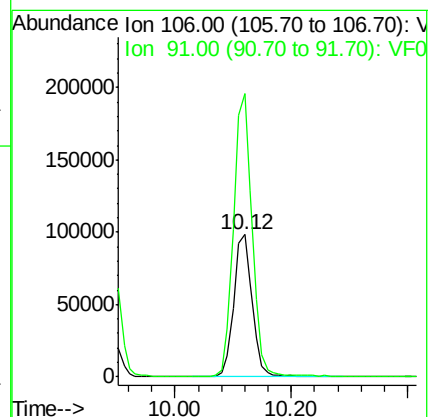
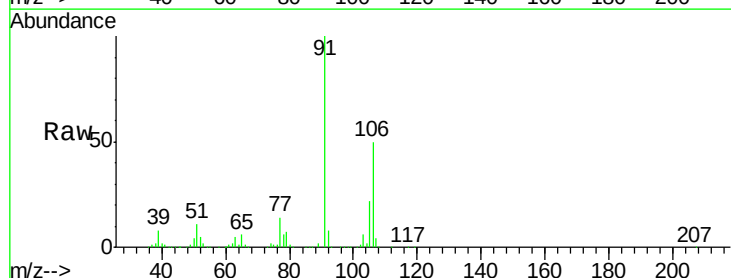
Acq: 12 Mar 2019 15:43

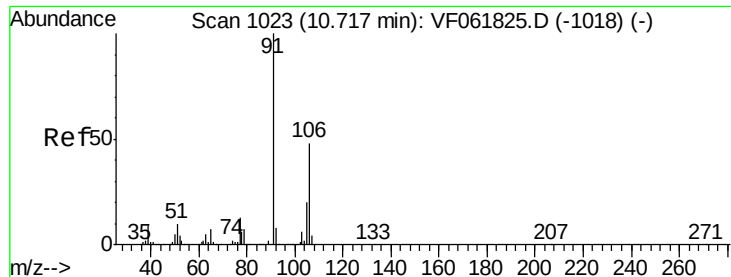
Tgt Ion: 106 Resp: 216713

Ion Ratio Lower Upper

106 100

91 199.0 157.5 236.3

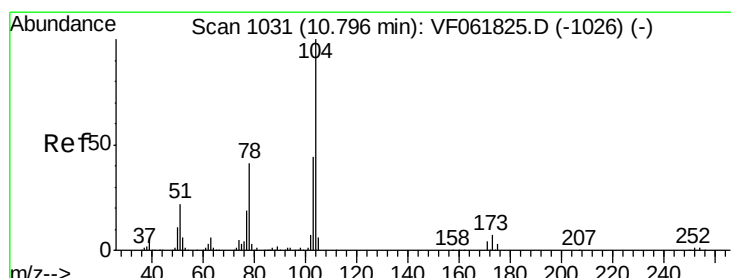
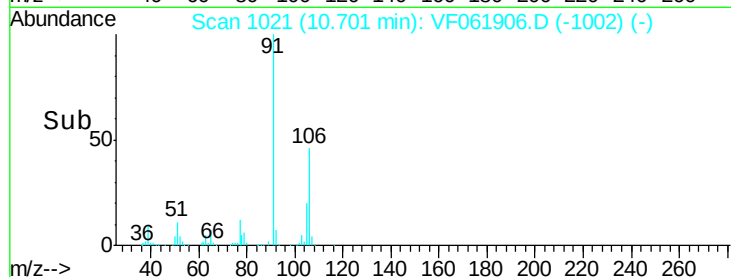
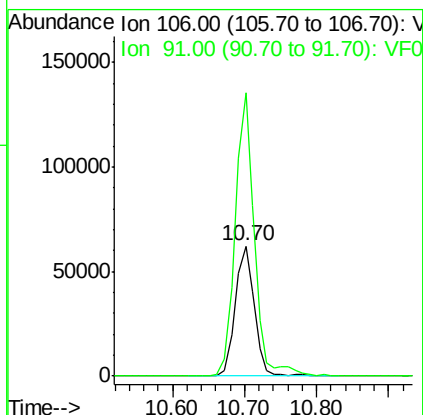
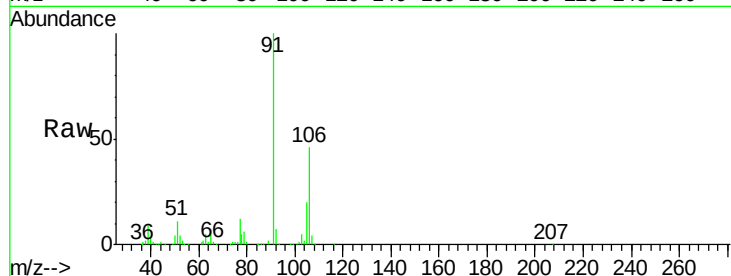




#69
o-Xylene
Concen: 22.760 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

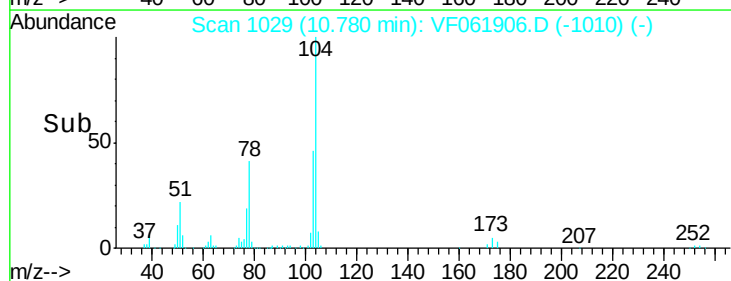
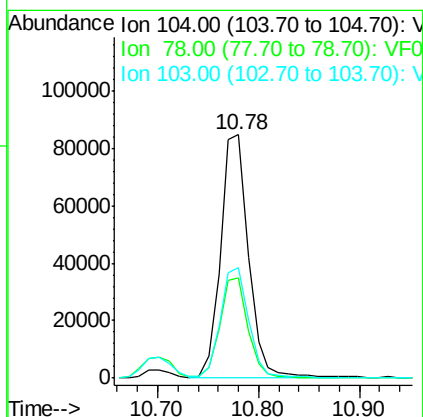
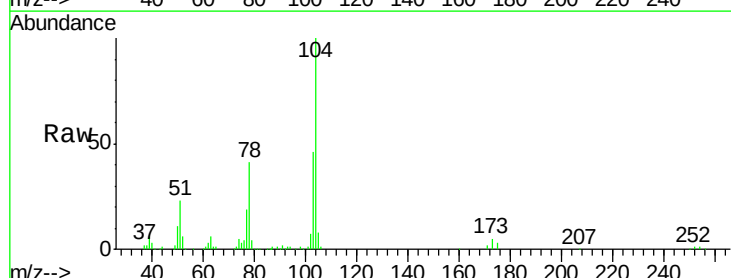
Instrument :
MSVOA_F
ClientSampled :
VF0312SBS01

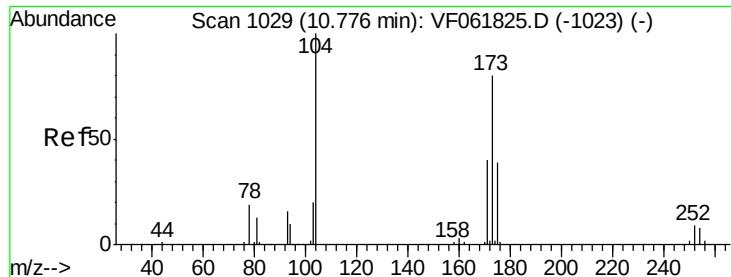
Tot Ion:106 Resp: 116804
Ion Ratio Lower Upper
106 100
91 218.1 103.5 310.3



#70
Styrene
Concen: 22.563 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion:104 Resp: 162962
Ion Ratio Lower Upper
104 100
78 41.2 33.3 49.9
103 45.6 35.4 53.0





#71

Bromoform

Concen: 20.890 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

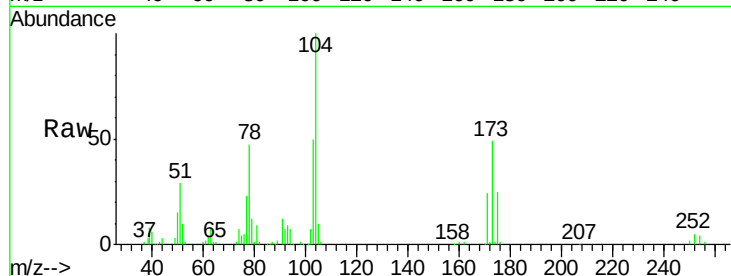
Tot Ion:173 Resp: 32108

Ion Ratio Lower Upper

173 100

175 52.0 24.5 73.5

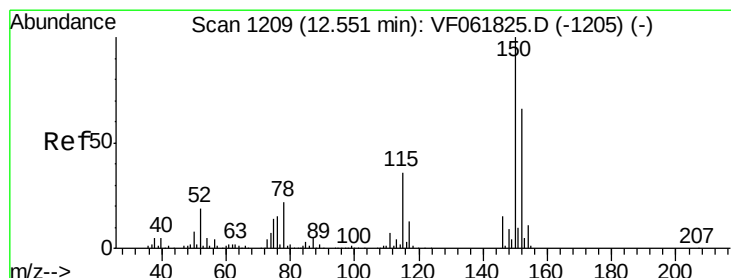
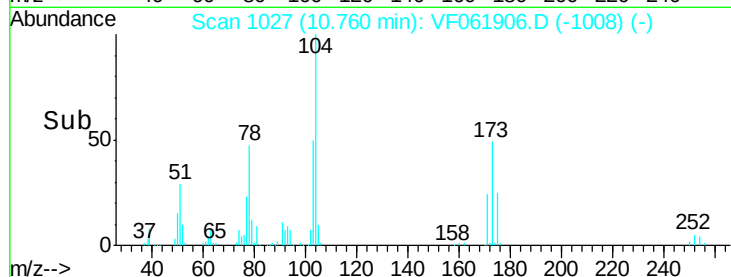
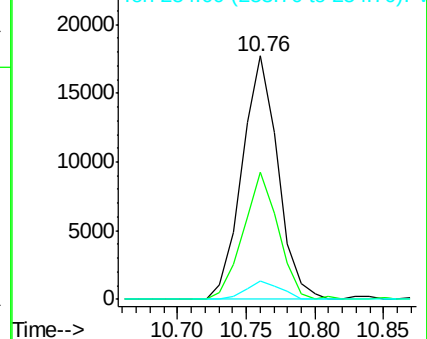
254 7.6 8.0 12.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

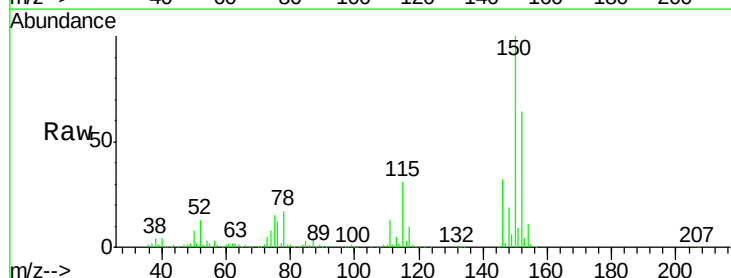
Tgt Ion:152 Resp: 213015

Ion Ratio Lower Upper

152 100

115 49.0 27.7 83.1

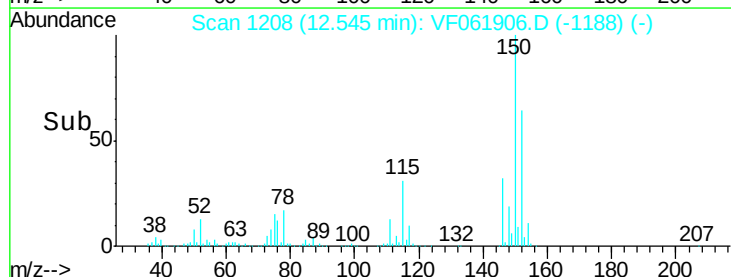
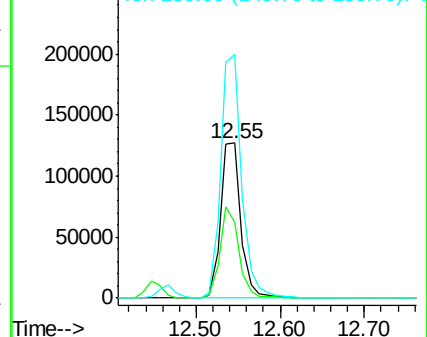
150 157.0 0.0 304.2

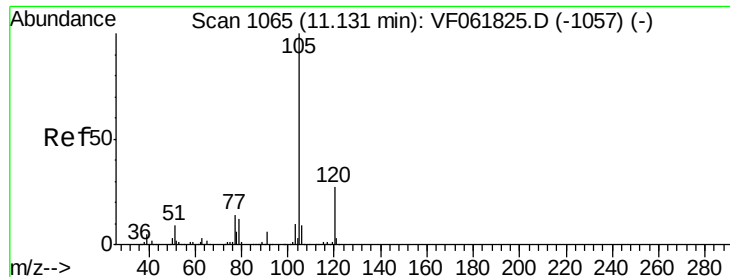


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.468 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

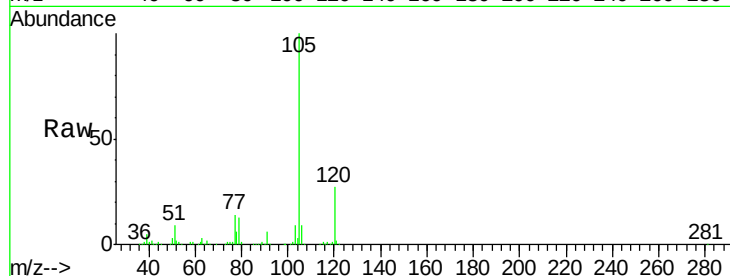
VF0312SBS01

Tot Ion:105 Resp: 329486

Ion Ratio Lower Upper

105 100

120 26.8 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.12

200000

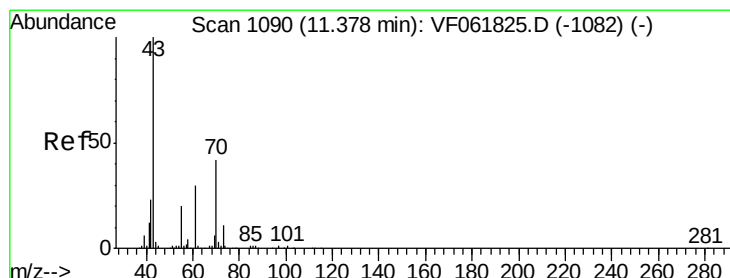
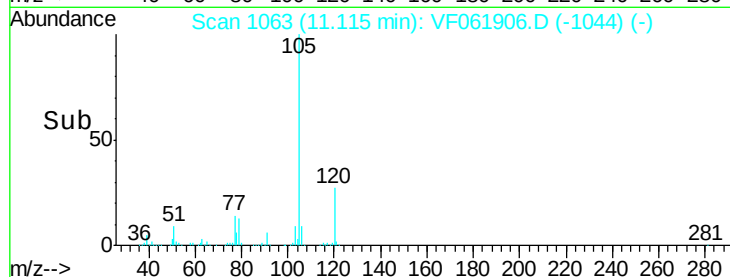
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 20.757 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion: 43 Resp: 70076

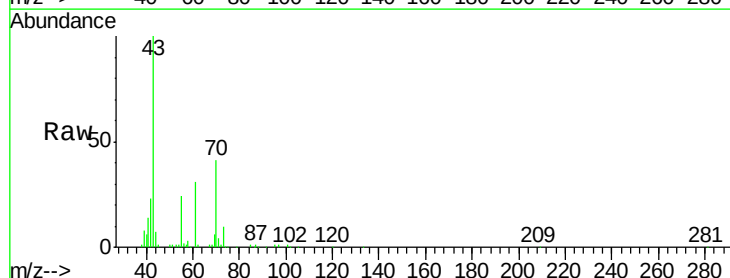
Ion Ratio Lower Upper

43 100

70 40.5 33.4 50.0

55 24.3 16.3 24.5

61 30.9 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

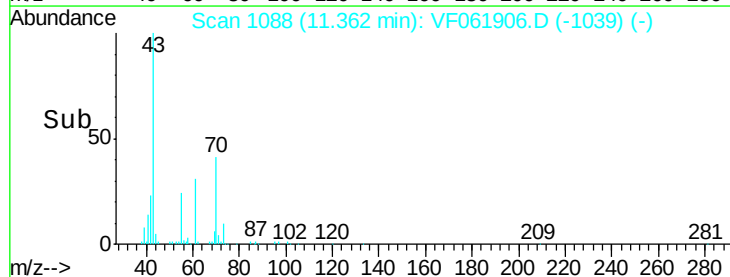
60000

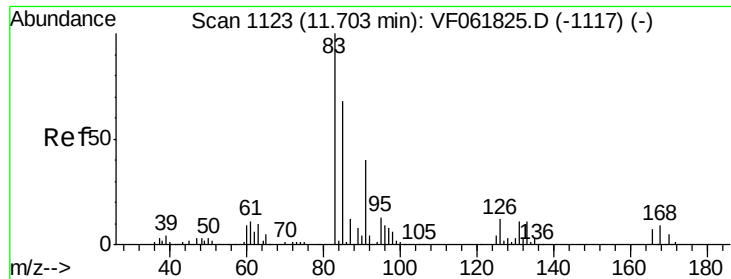
40000

20000

0

Time--> 11.30 11.40





#75

1,1,2,2-Tetrachloroethane

Concen: 21.751 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

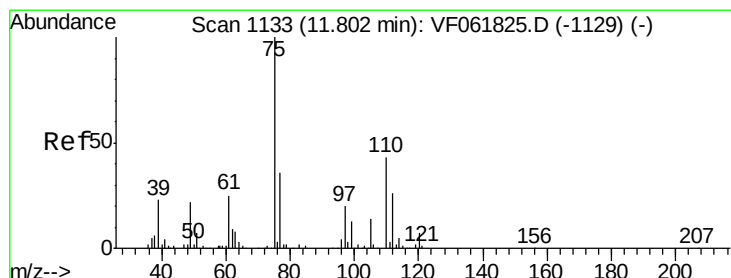
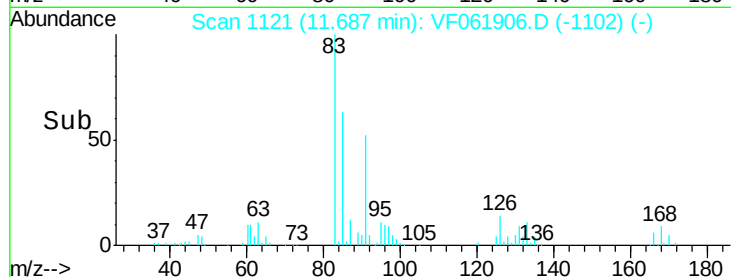
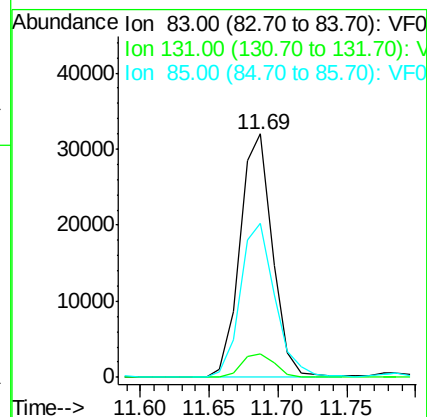
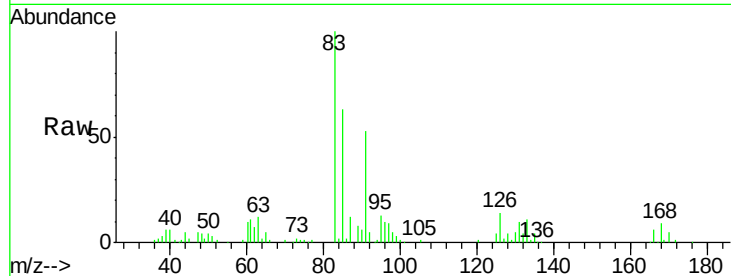
Tot Ion: 83 Resp: 53016

Ion Ratio Lower Upper

83 100

131 9.9 5.5 16.7

85 63.2 34.2 102.6



#76

1,2,3-Trichloropropane

Concen: 22.739 ug/l

RT: 11.79 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061906.D

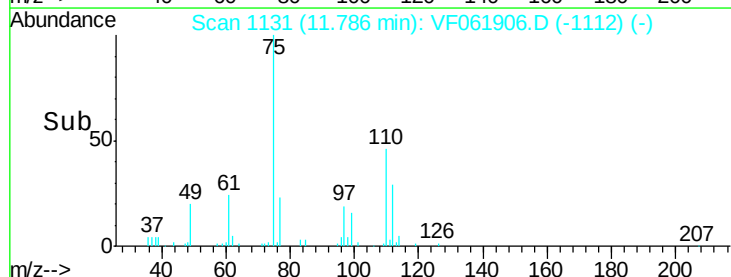
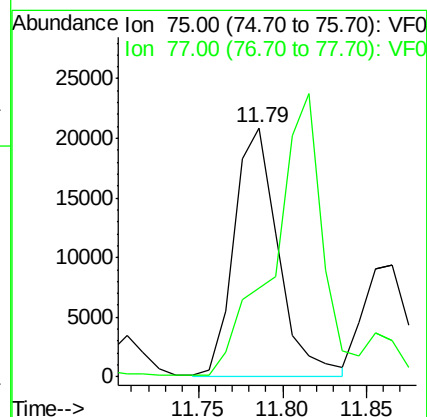
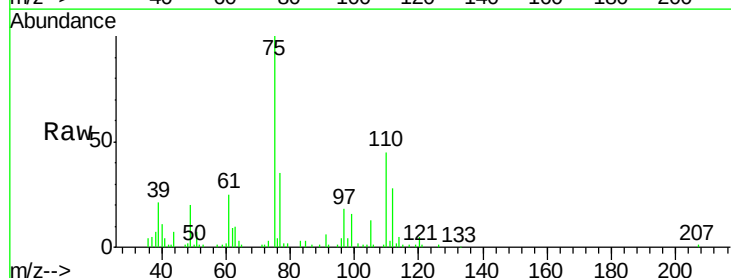
Acq: 12 Mar 2019 15:43

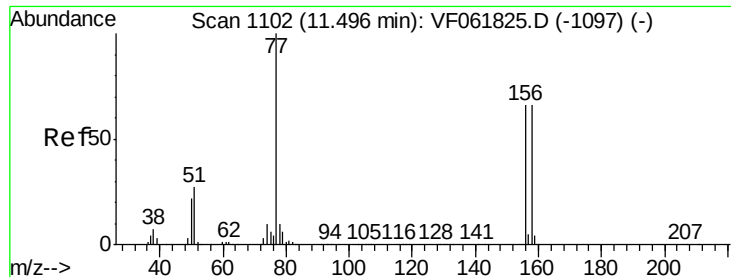
Tgt Ion: 75 Resp: 37826

Ion Ratio Lower Upper

75 100

77 35.5 18.1 54.4





#77

Bromobenzene

Concen: 21.703 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

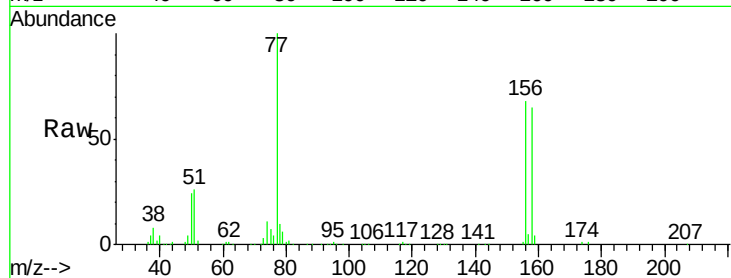
Tot Ion:156 Resp: 76598

Ion Ratio Lower Upper

156 100

77 148.1 75.7 227.1

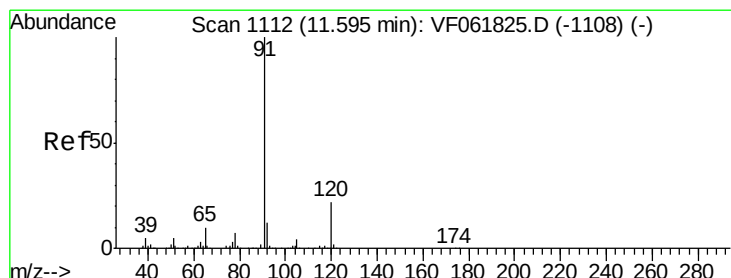
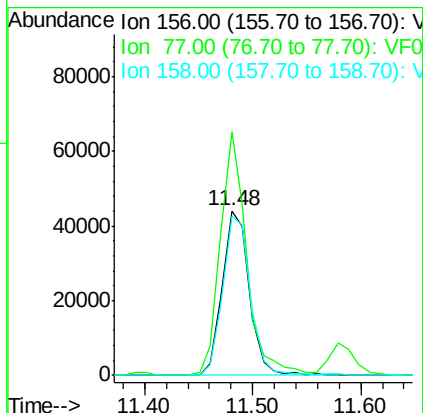
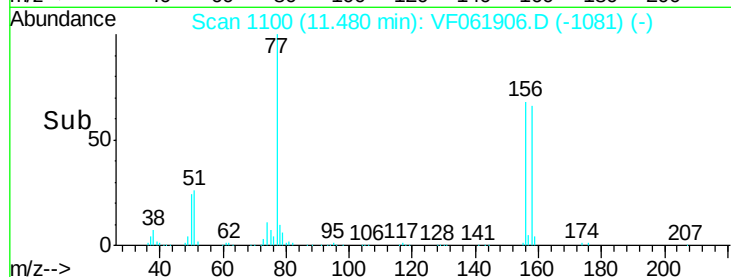
158 96.9 50.0 150.1



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: 23.131 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VF061906.D

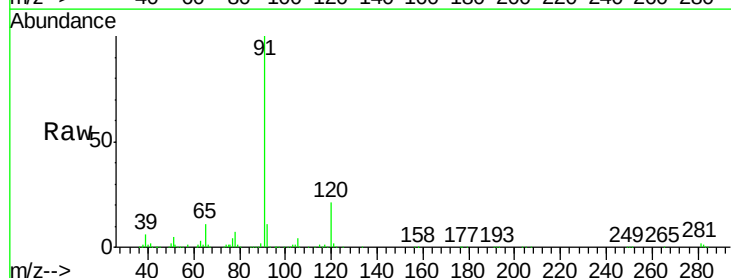
Acq: 12 Mar 2019 15:43

Tgt Ion: 91 Resp: 383072

Ion Ratio Lower Upper

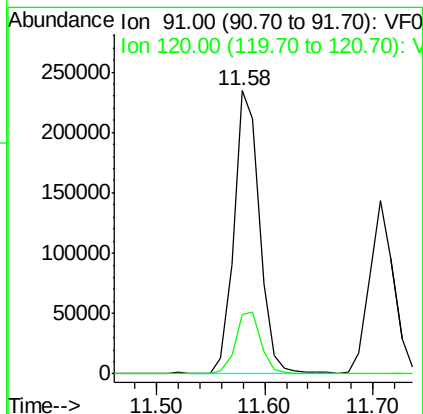
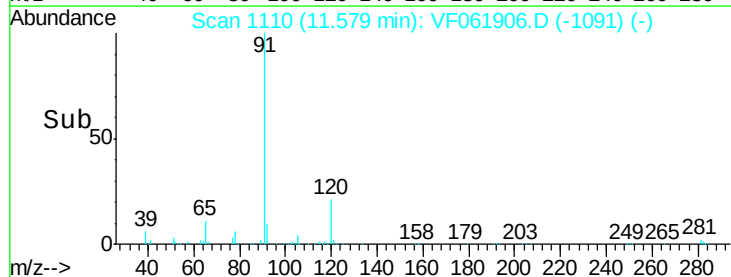
91 100

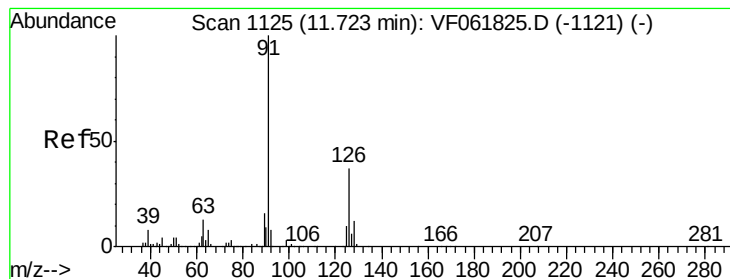
120 20.9 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.459 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

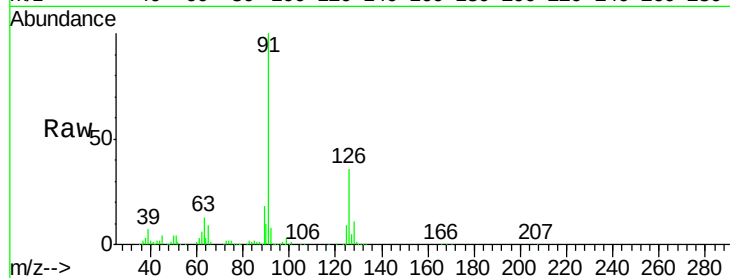
VF0312SBS01

Tot Ion: 91 Resp: 222114

Ion Ratio Lower Upper

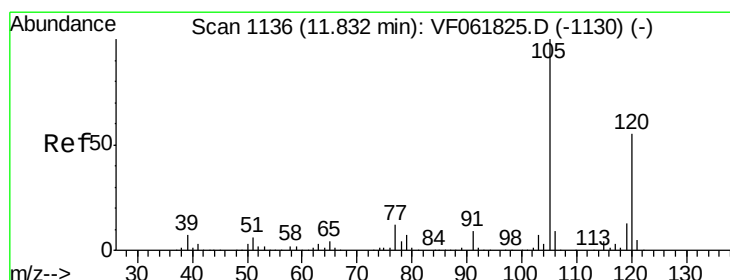
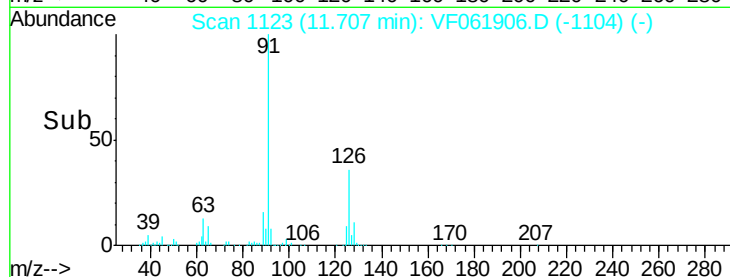
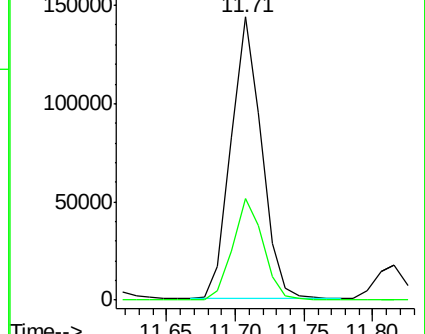
91 100

126 35.8 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 23.815 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061906.D

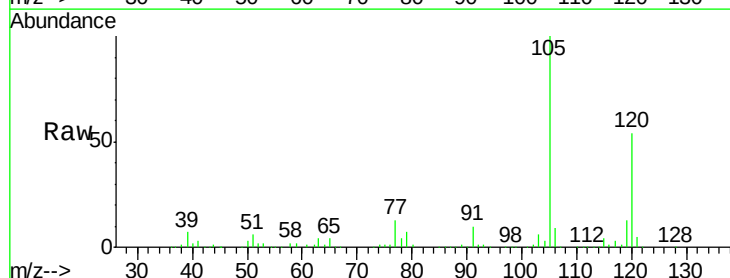
Acq: 12 Mar 2019 15:43

Tgt Ion: 105 Resp: 280406

Ion Ratio Lower Upper

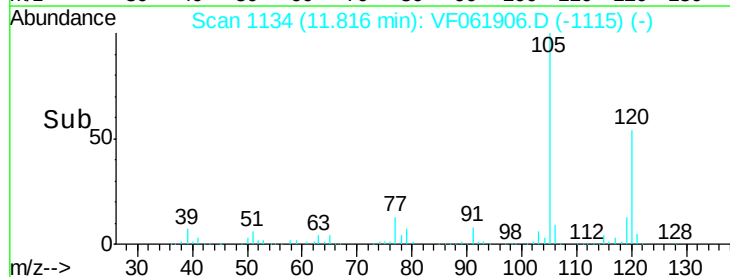
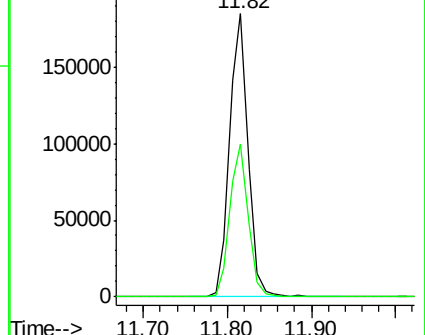
105 100

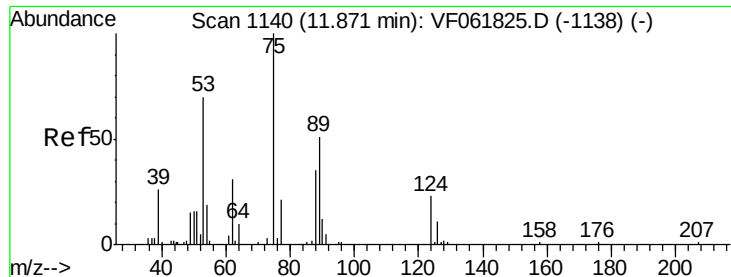
120 53.9 27.4 82.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 30.218 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

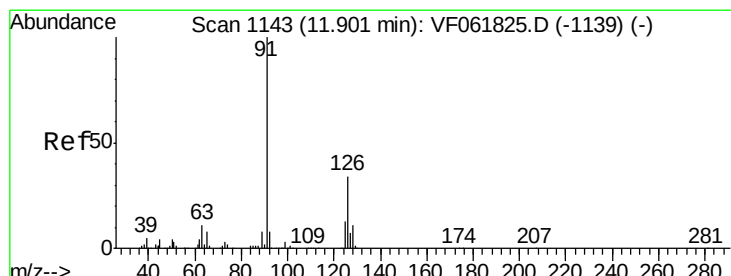
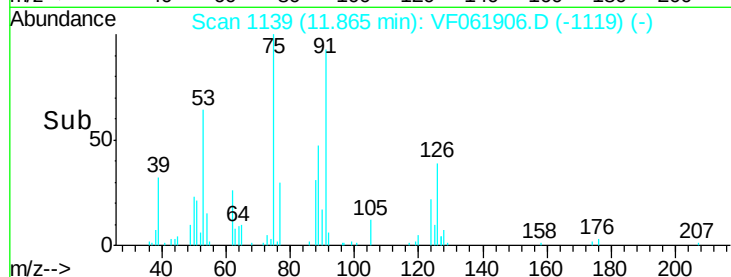
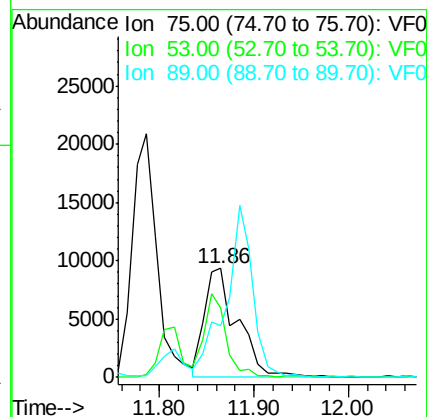
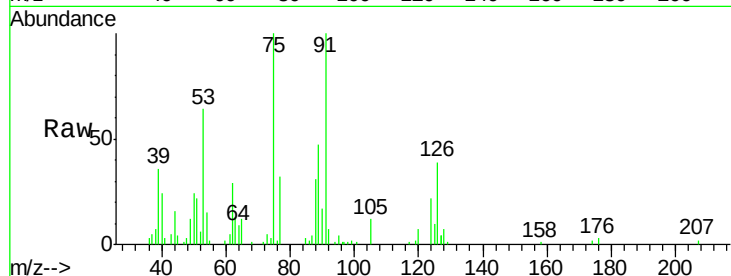
Tot Ion: 75 Resp: 22986

Ion Ratio Lower Upper

75 100

53 64.0 58.6 88.0

89 47.0 41.4 62.0



#82

4-Chlorotoluene

Concen: 22.736 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VF061906.D

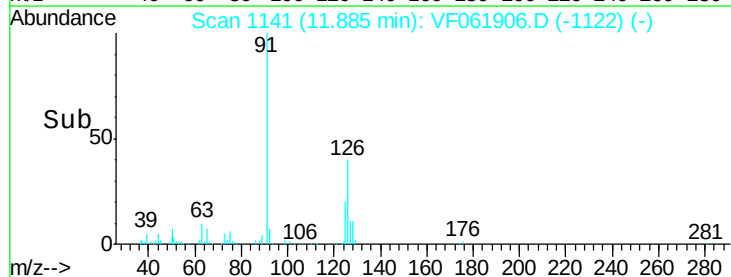
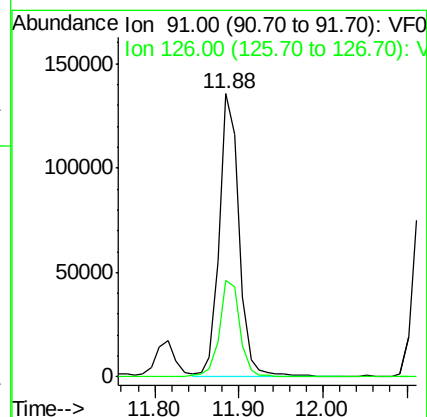
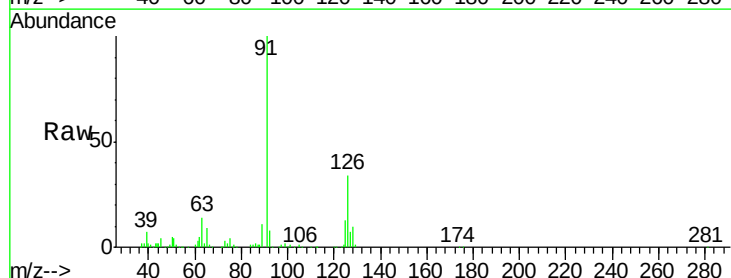
Acq: 12 Mar 2019 15:43

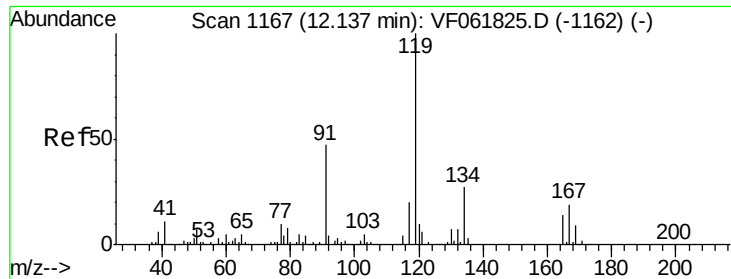
Tgt Ion: 91 Resp: 220185

Ion Ratio Lower Upper

91 100

126 34.1 17.0 50.9

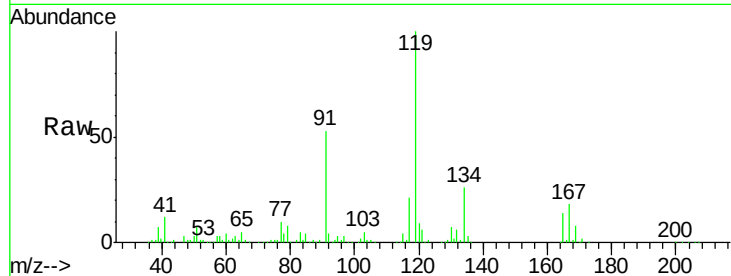




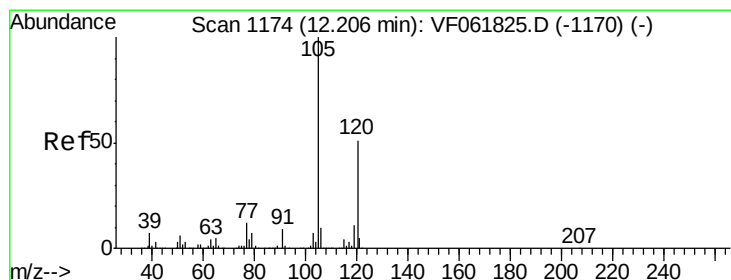
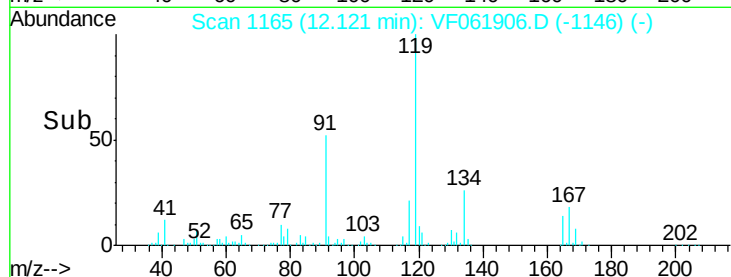
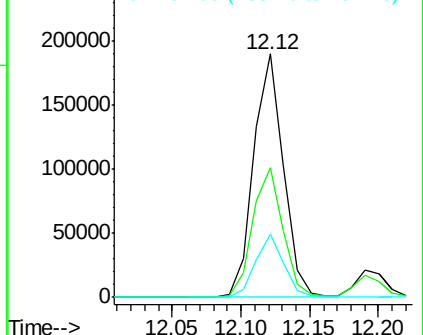
#83
 tert-Butylbenzene
 Concen: 23.155 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Tot Ion:119 Resp: 289488
 Ion Ratio Lower Upper
 119 100
 91 53.5 23.5 70.5
 134 26.1 13.3 39.8

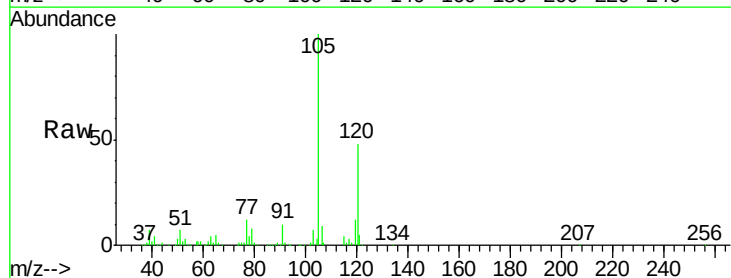


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

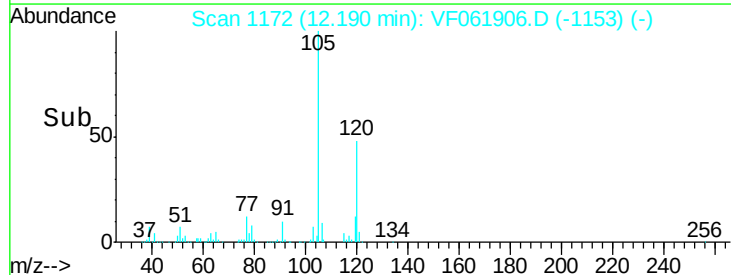
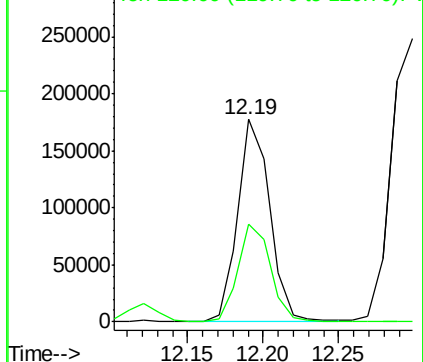


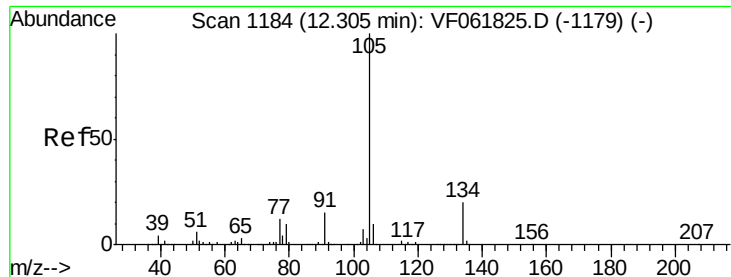
#84
 1,2,4-Trimethylbenzene
 Concen: 22.751 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion:105 Resp: 262603
 Ion Ratio Lower Upper
 105 100
 120 48.0 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 23.526 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

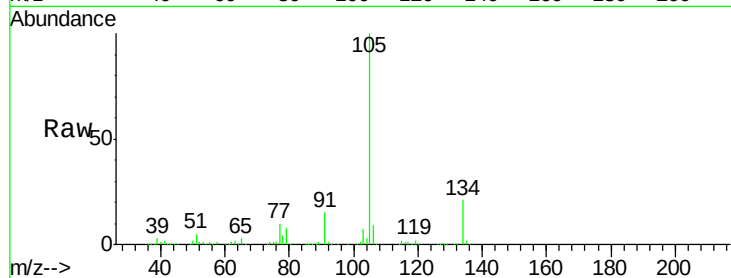
VF0312SBS01

Tot Ion:105 Resp: 382758

Ion Ratio Lower Upper

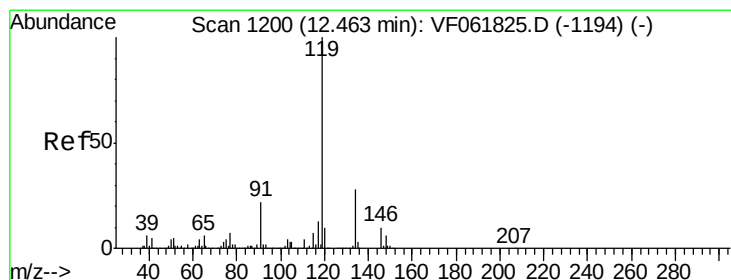
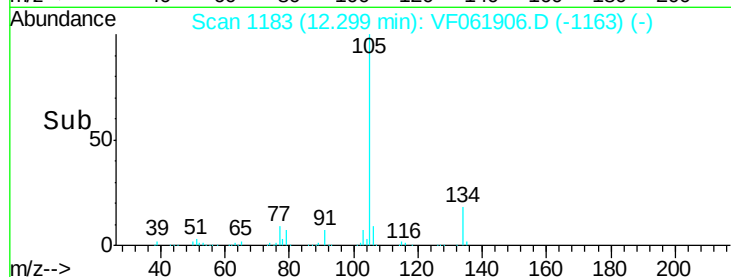
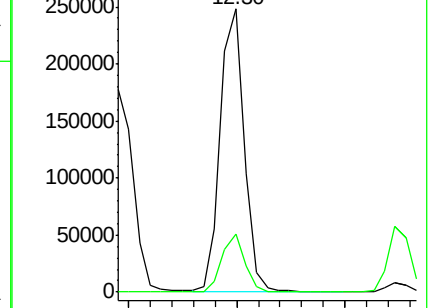
105 100

134 20.5 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: 23.194 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

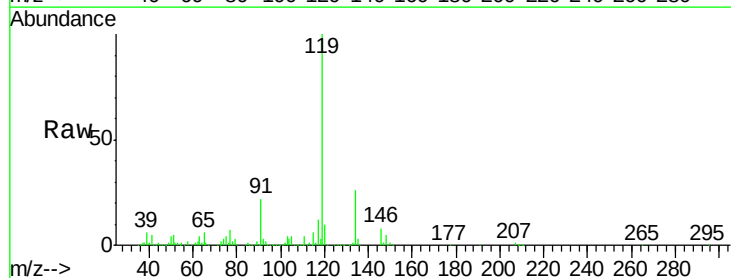
Tgt Ion:119 Resp: 320766

Ion Ratio Lower Upper

119 100

134 25.8 14.0 42.0

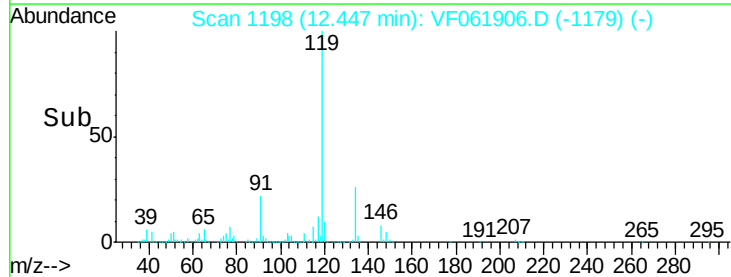
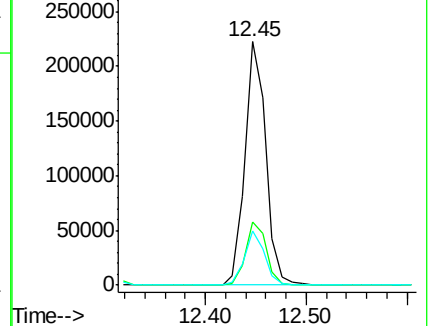
91 22.2 11.1 33.3

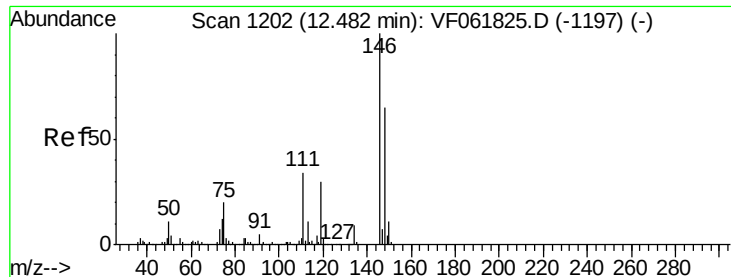


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

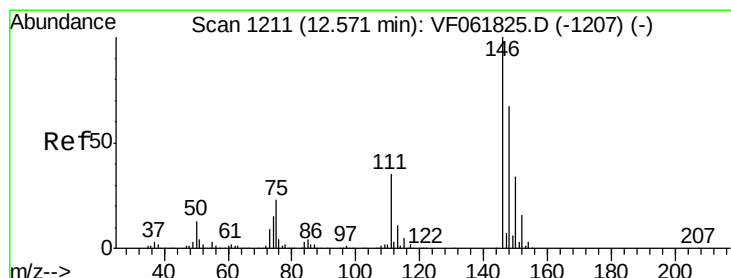
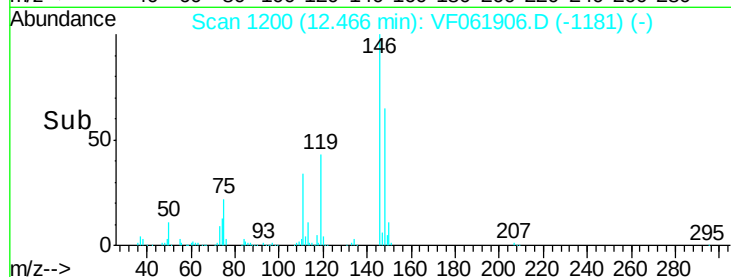
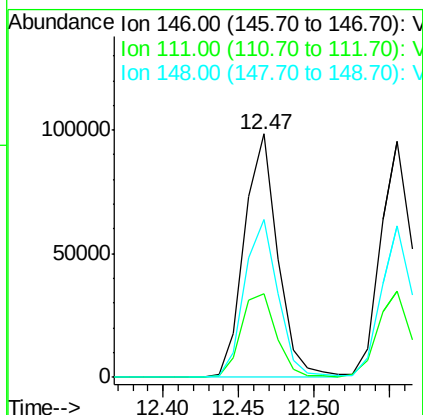
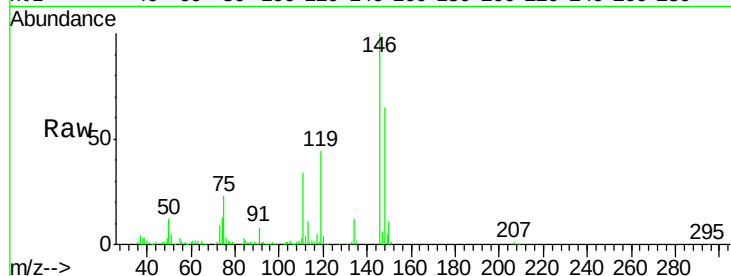




#87
 1,3-Dichlorobenzene
 Concen: 22.668 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

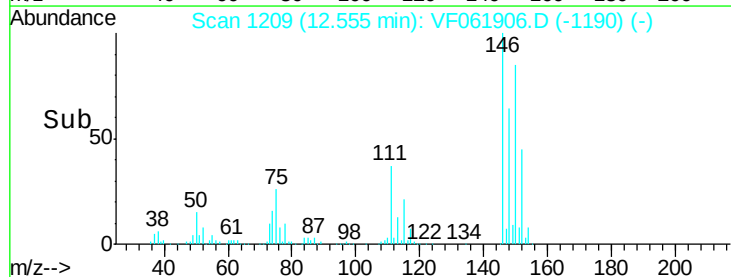
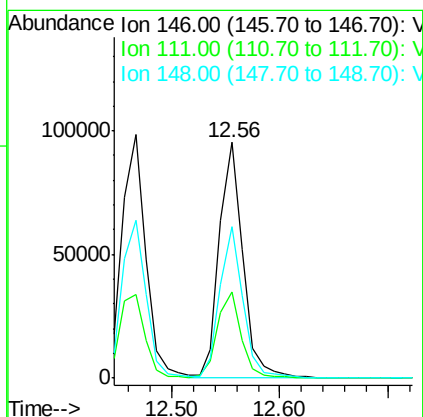
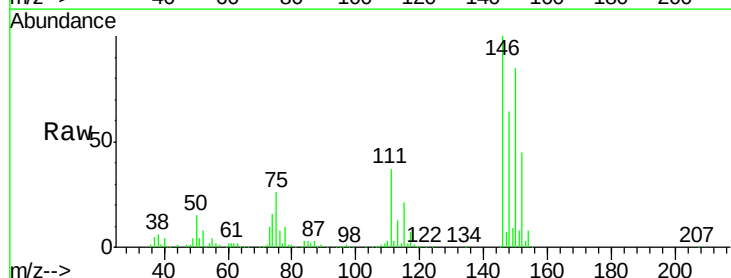
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

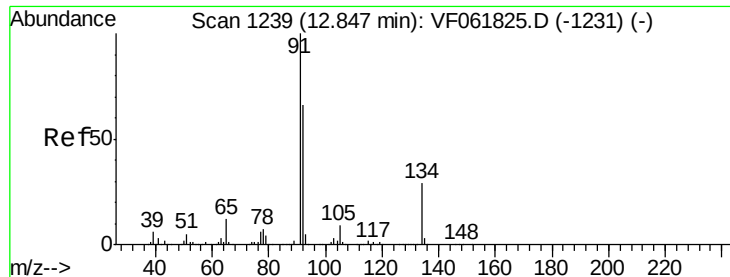
Tot Ion:146 Resp: 151912
 Ion Ratio Lower Upper
 146 100
 111 34.3 17.0 51.0
 148 64.8 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 22.414 ug/l
 RT: 12.56 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion:146 Resp: 144897
 Ion Ratio Lower Upper
 146 100
 111 36.6 17.6 52.9
 148 64.5 33.5 100.4





#89

n-Butylbenzene

Concen: 23.480 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

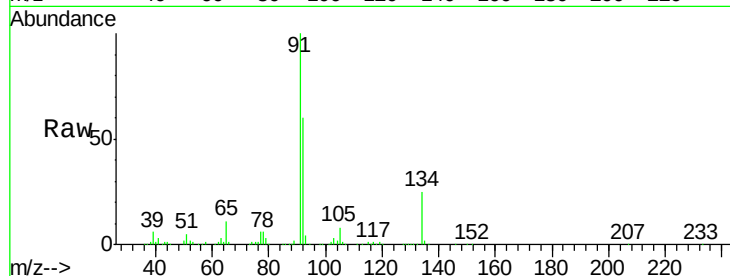
Tot Ion: 91 Resp: 310322

Ion Ratio Lower Upper

91 100

92 60.4 32.9 98.6

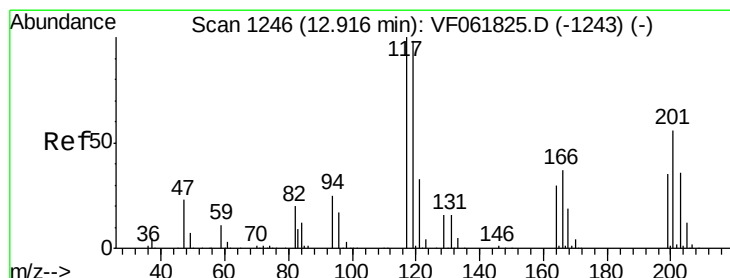
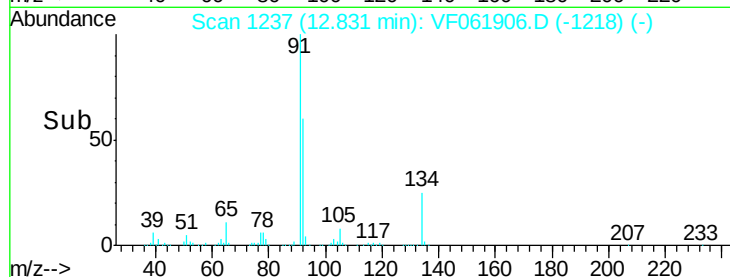
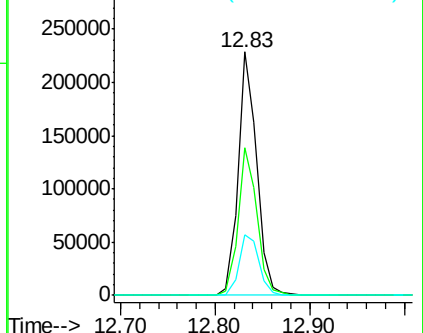
134 25.1 14.5 43.6



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: 21.876 ug/l

RT: 12.91 min Scan# 1245

Delta R.T. -0.01 min

Lab File: VF061906.D

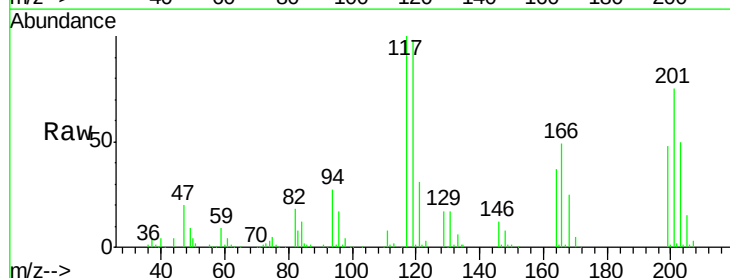
Acq: 12 Mar 2019 15:43

Tgt Ion: 117 Resp: 72820

Ion Ratio Lower Upper

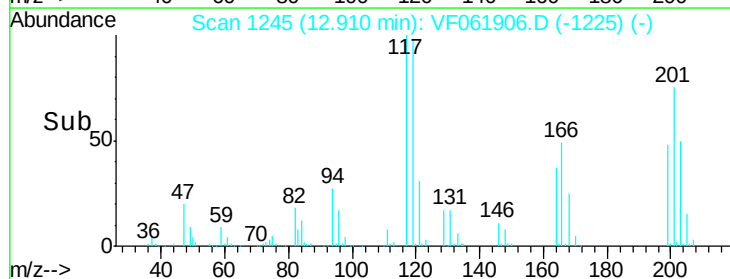
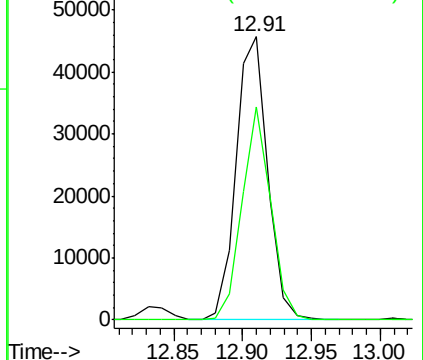
117 100

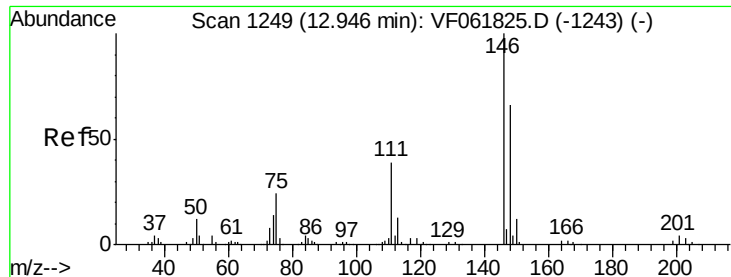
201 75.1 27.8 83.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

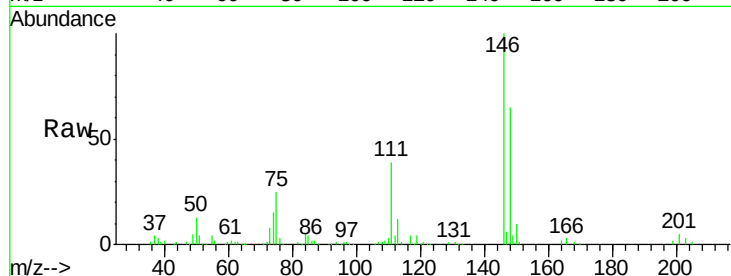




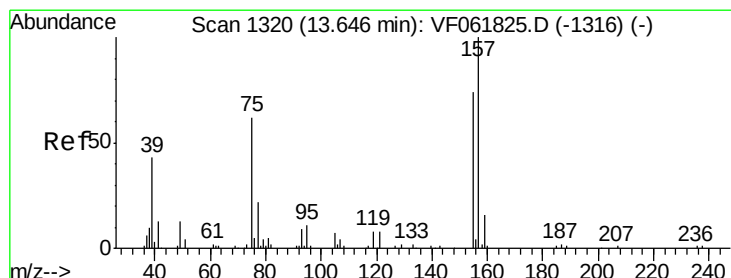
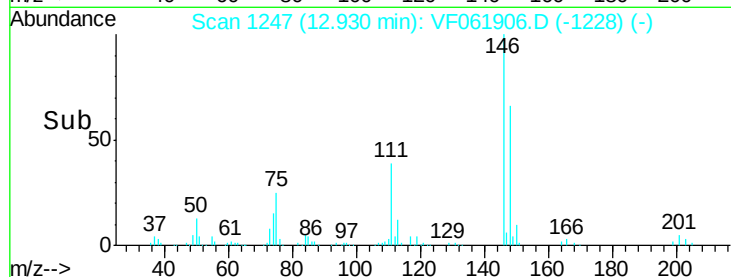
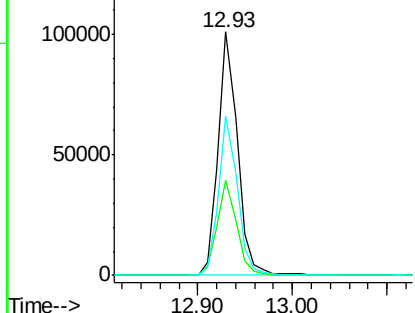
#91
 1,2-Dichlorobenzene
 Concen: 22.633 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Tot Ion:146 Resp: 143707
 Ion Ratio Lower Upper
 146 100
 111 39.2 19.4 58.4
 148 65.4 33.0 98.9

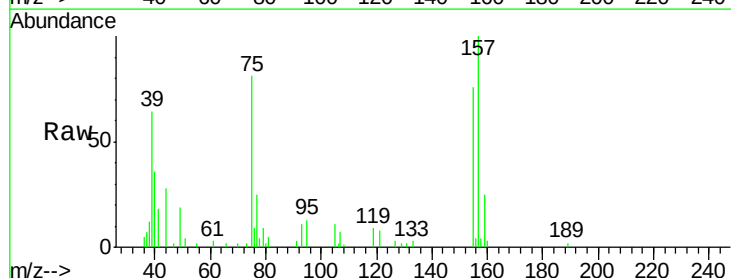


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

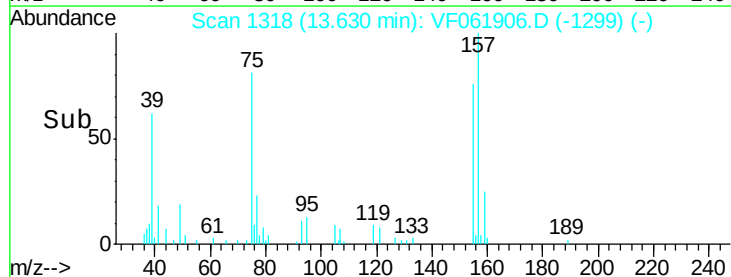
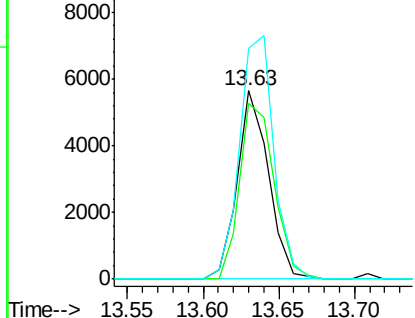


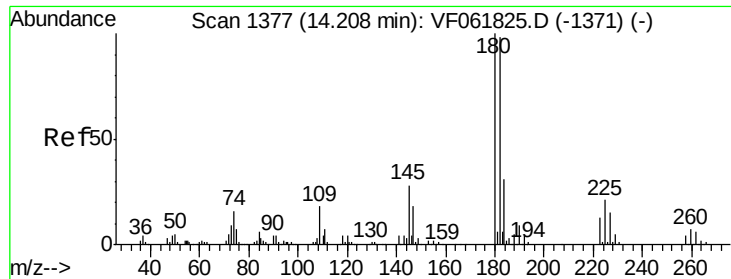
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.527 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion: 75 Resp: 8129
 Ion Ratio Lower Upper
 75 100
 155 93.5 59.8 179.4
 157 122.8 81.2 243.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

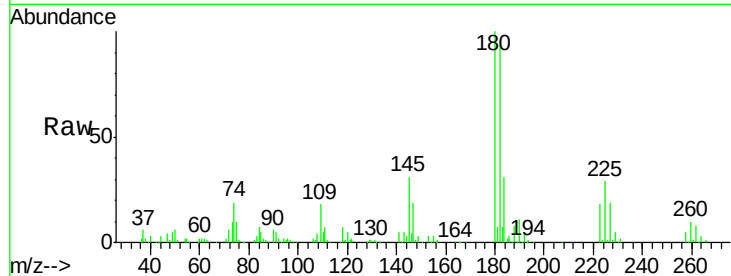




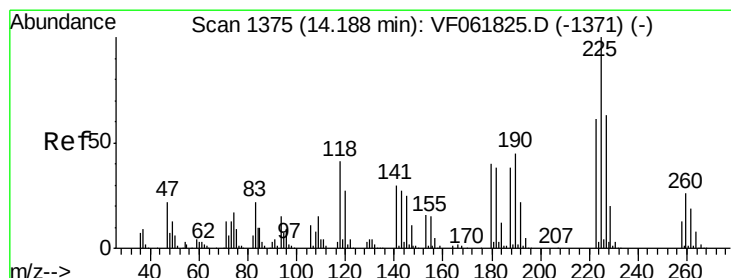
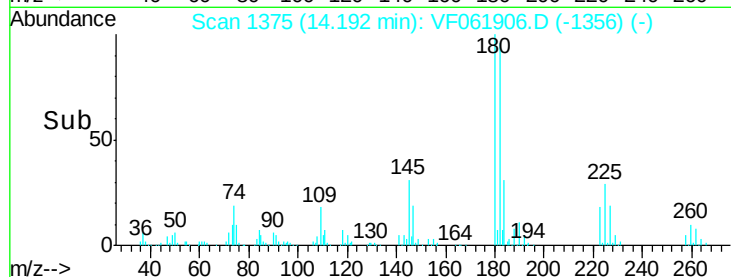
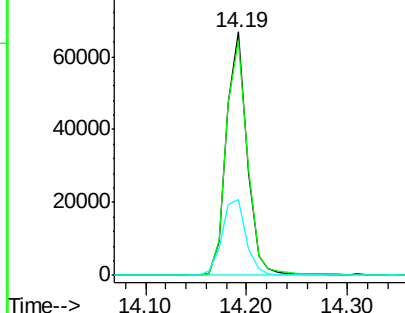
#93
 1,2,4-Trichlorobenzene
 Concen: 21.516 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Tot Ion:180 Resp: 95775
 Ion Ratio Lower Upper
 180 100
 182 96.3 49.0 147.2
 145 31.3 14.1 42.4

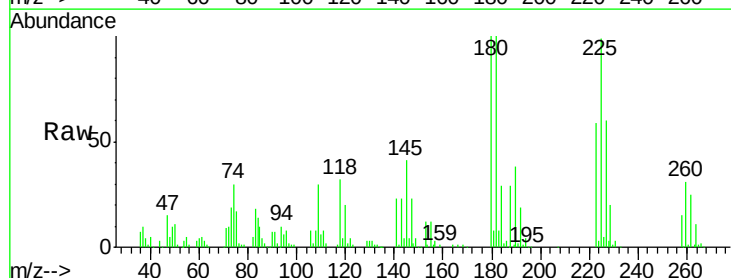


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

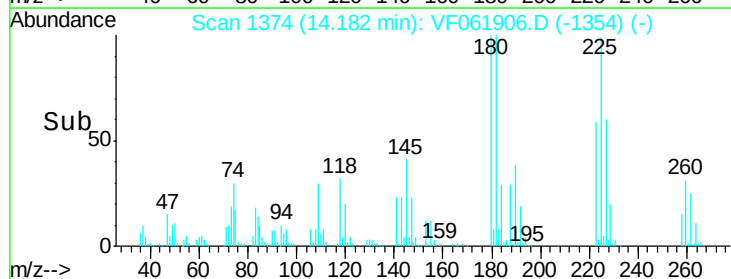
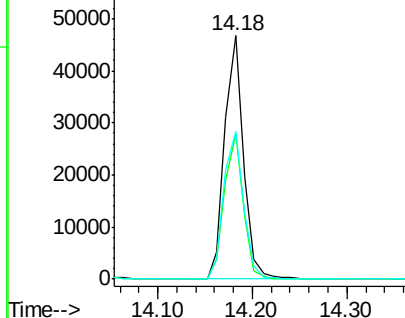


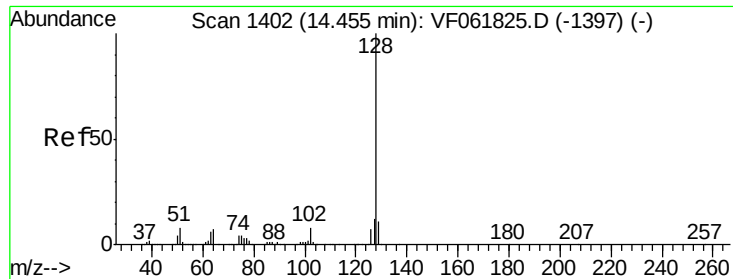
#94
 Hexachlorobutadiene
 Concen: 20.941 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion:225 Resp: 64531
 Ion Ratio Lower Upper
 225 100
 223 59.5 30.3 90.9
 227 60.7 31.3 93.8



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





#95

Naphthalene

Concen: 19.454 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

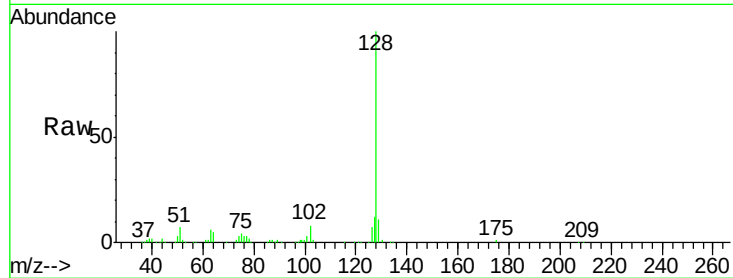
Tot Ion:128 Resp: 154232

Ion Ratio Lower Upper

128 100

127 12.1 9.3 13.9

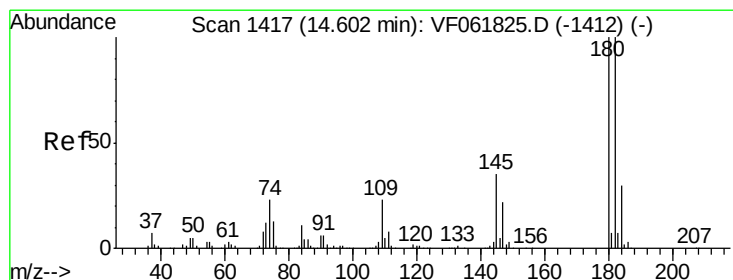
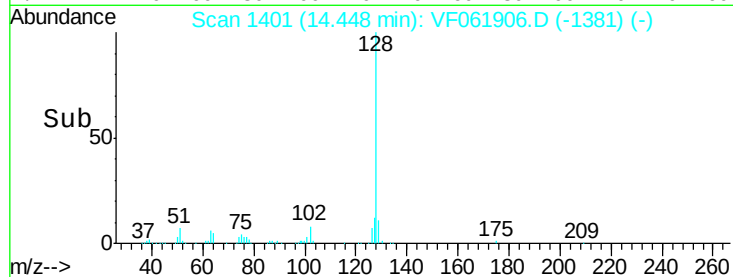
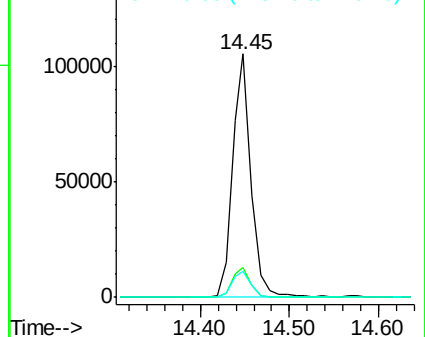
129 10.9 8.8 13.2



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: 21.911 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

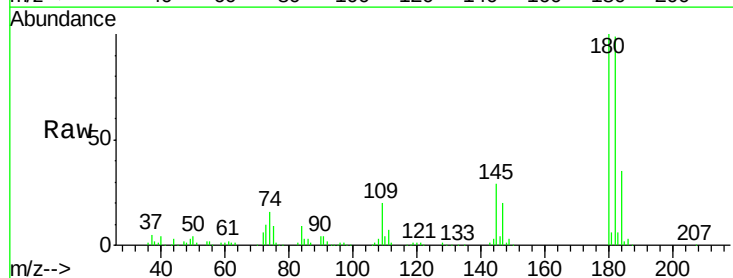
Tgt Ion:180 Resp: 90055

Ion Ratio Lower Upper

180 100

182 99.2 50.2 150.7

145 29.5 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

