

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030119\
 Data File : VF061803.D
 Acq On : 1 Mar 2019 15:27
 Operator : VA/AP
 Sample : VF0301SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Quant Time: Mar 02 02:44:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	284168	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	434198	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	360372	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	200340	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	113739	54.58	ug/l	-0.03
Spiked Amount			Recovery	=	109.16%	
35) Dibromofluoromethane	4.09	113	161561	50.11	ug/l	-0.03
Spiked Amount			Recovery	=	100.22%	
50) Toluene-d8	7.53	98	451991	48.76	ug/l	-0.03
Spiked Amount			Recovery	=	97.52%	
62) 4-Bromofluorobenzene	11.39	95	185174	49.37	ug/l	-0.02
Spiked Amount			Recovery	=	98.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	91427	28.016	ug/l	98
3) Chloromethane	1.09	50	83812	24.478	ug/l	97
4) Vinyl Chloride	1.13	62	83871	26.349	ug/l	93
5) Bromomethane	1.32	94	53248	24.306	ug/l	94
6) Chloroethane	1.39	64	37575	23.954	ug/l	98
7) Trichlorofluoromethane	1.48	101	74546	19.417	ug/l	95
8) Diethyl Ether	1.62	74	21742	22.472	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	71014	25.641	ug/l #	88
10) Methyl Iodide	1.90	142	101021	19.095	ug/l	96
11) Tert butyl alcohol	2.56	59	14491	120.158	ug/l	97
12) 1,1-Dichloroethene	1.79	96	61869	25.408	ug/l	95
13) Acrolein	1.99	56	13297	87.727	ug/l	97
14) Allyl chloride	2.09	41	72149	24.146	ug/l	95
15) Acrylonitrile	2.92	53	46658	109.072	ug/l	93
16) Acetone	2.22	43	59074	132.127	ug/l	97
17) Carbon Disulfide	1.81	76	138798	18.134	ug/l	96
18) Methyl Acetate	2.33	43	22421	22.261	ug/l	97
19) Methyl tert-butyl Ether	2.42	73	96725	23.242	ug/l	95
20) Methylene Chloride	2.17	84	21857	6.953	ug/l	98
21) trans-1,2-Dichloroethene	2.29	96	60392	22.815	ug/l	95
22) Diisopropyl ether	2.79	45	177308	24.720	ug/l	98
23) Vinyl Acetate	3.17	43	422851	120.701	ug/l	99
24) 1,1-Dichloroethane	2.86	63	111492	25.686	ug/l	98
25) 2-Butanone	4.31	43	117018	119.821	ug/l	97
26) 2,2-Dichloropropane	3.58	77	43724	23.781	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	83683	24.085	ug/l	97
28) Bromochloromethane	3.69	49	44452	21.344	ug/l	84
29) Tetrahydrofuran	4.06	42	48211	108.614	ug/l	97
30) Chloroform	3.84	83	125933	25.512	ug/l	97
31) Cyclohexane	3.66	56	68618	14.603	ug/l	98
32) 1,1,1-Trichloroethane	4.07	97	69966	21.637	ug/l	98
36) 1,1-Dichloropropene	4.26	75	101745	23.655	ug/l	94
37) Ethyl Acetate	4.09	43	42757	21.402	ug/l #	81
38) Carbon Tetrachloride	3.97	117	71982	24.236	ug/l	99

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 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	110893	21.800	ug/l	98
40) Benzene	4.61	78	258796	23.003	ug/l	99
41) Methacrylonitrile	4.73	41	21583	21.125	ug/l	92
42) 1,2-Dichloroethane	4.93	62	66309	24.639	ug/l	96
43) Isopropyl Acetate	6.94	43	49639	20.991	ug/l #	98
44) Trichloroethene	5.48	130	82872	22.778	ug/l	90
45) 1,2-Dichloropropane	6.22	63	61331	22.552	ug/l	92
46) Dibromomethane	6.07	93	38548	23.022	ug/l	90
47) Bromodichloromethane	6.37	83	88924	24.252	ug/l	98
48) Methyl methacrylate	6.69	41	30142	21.180	ug/l	97
49) 1,4-Dioxane	6.68	88	5994	448.049	ug/l #	86
51) 4-Methyl-2-Pentanone	8.24	43	184424	109.144	ug/l	98
52) Toluene	7.60	92	161901	23.728	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	69967	22.927	ug/l	99
54) cis-1,3-Dichloropropene	7.28	75	101920	25.074	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	44839	22.366	ug/l	94
56) Ethyl methacrylate	8.59	69	47851	21.438	ug/l #	92
57) 1,3-Dichloropropane	8.83	76	70982	21.213	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.27	63	39773	103.279	ug/l	98
59) 2-Hexanone	9.47	43	136921	115.598	ug/l	96
60) Dibromochloromethane	8.69	129	62124	22.264	ug/l	89
61) 1,2-Dibromoethane	8.97	107	47162	21.689	ug/l	96
64) Tetrachloroethene	8.13	164	71154	24.156	ug/l	96
65) Chlorobenzene	9.78	112	171608	23.467	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	65244	22.769	ug/l	94
67) Ethyl Benzene	9.88	91	276875	22.767	ug/l	99
68) m/p-Xylenes	10.11	106	224262	48.185	ug/l	99
69) o-Xylene	10.69	106	119961	24.155	ug/l	83
70) Styrene	10.77	104	168611	23.999	ug/l	98
71) Bromoform	10.75	173	33611	21.601	ug/l	89
73) Isopropylbenzene	11.11	105	339412	23.795	ug/l	99
74) N-amyl acetate	11.36	43	81583	23.829	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	55987	21.909	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	38957	22.423	ug/l	98
77) Bromobenzene	11.48	156	78647	22.319	ug/l	96
78) n-propylbenzene	11.58	91	403802	24.670	ug/l	99
79) 2-Chlorotoluene	11.70	91	220617	24.066	ug/l	93
80) 1,3,5-Trimethylbenzene	11.81	105	284146	24.925	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	23516	28.233	ug/l	94
82) 4-Chlorotoluene	11.89	91	231674	24.349	ug/l	95
83) tert-Butylbenzene	12.11	119	306094	24.241	ug/l	97
84) 1,2,4-Trimethylbenzene	12.19	105	285649	25.221	ug/l	98
85) sec-Butylbenzene	12.29	105	394517	24.161	ug/l	97
86) p-Isopropyltoluene	12.45	119	324894	23.708	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	160204	23.320	ug/l	99
88) 1,4-Dichlorobenzene	12.55	146	158235	23.951	ug/l	99
89) n-Butylbenzene	12.83	91	313967	24.263	ug/l	97
90) Hexachloroethane	12.90	117	76269	23.930	ug/l	94
91) 1,2-Dichlorobenzene	12.93	146	152920	23.403	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8882	21.922	ug/l	75

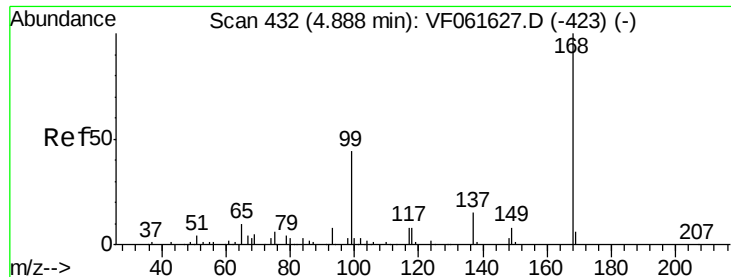
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030119\
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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	106317	22.700	ug/l	99
94) Hexachlorobutadiene	14.18	225	69084	23.883	ug/l	95
95) Naphthalene	14.44	128	179572	21.914	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	99019	23.034	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

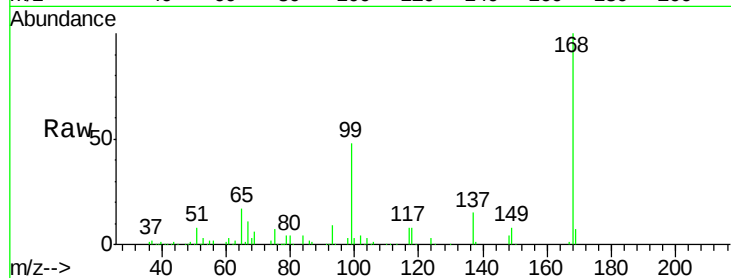
VF0301SBS01

Tot Ion:168 Resp: 284168

Ion Ratio Lower Upper

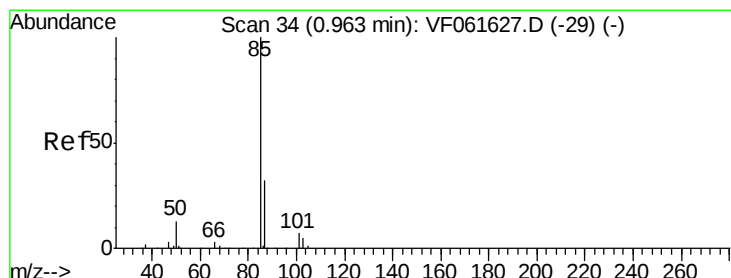
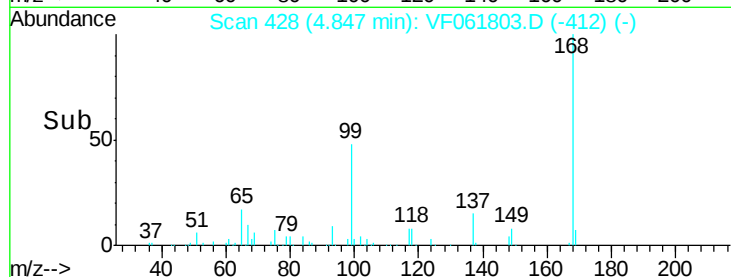
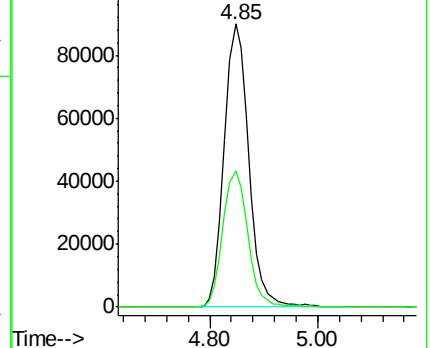
168 100

99 48.1 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 28.016 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061803.D

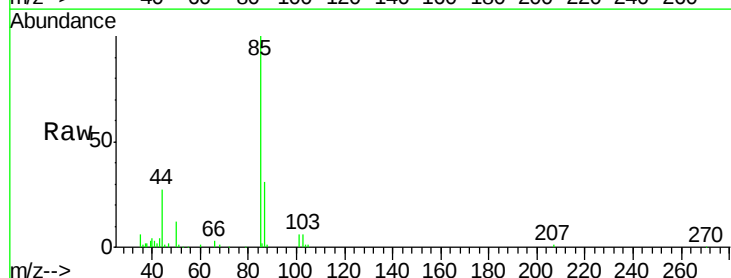
Acq: 1 Mar 2019 15:27

Tgt Ion: 85 Resp: 91427

Ion Ratio Lower Upper

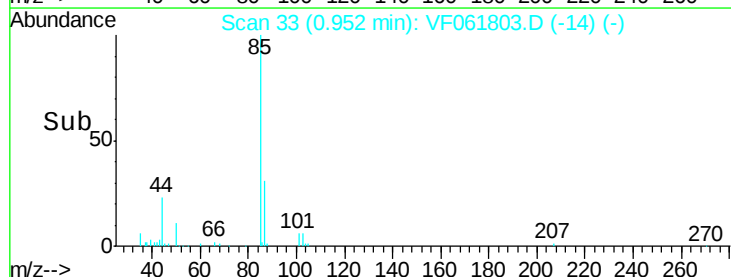
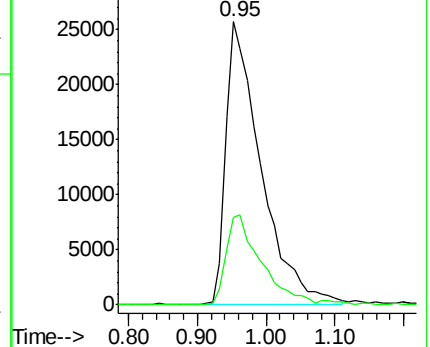
85 100

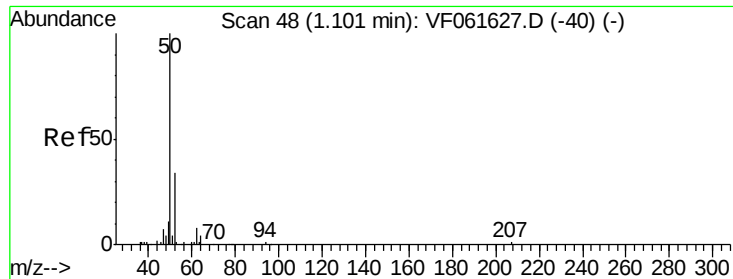
87 30.8 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 24.478 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

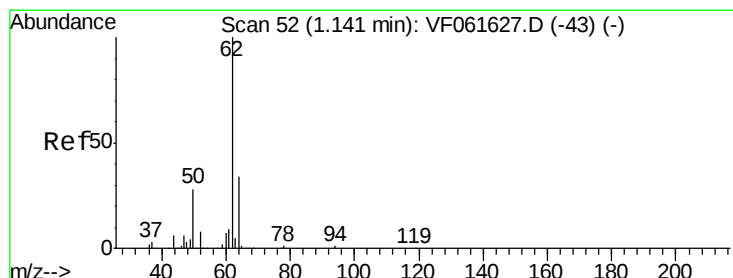
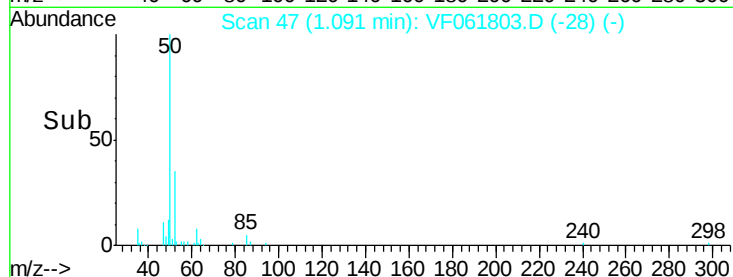
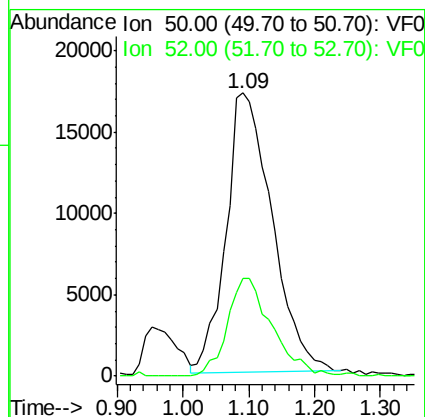
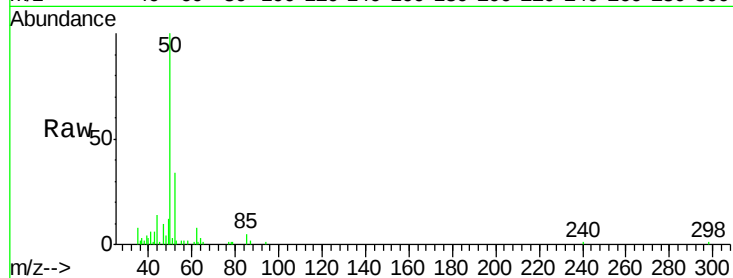
VF0301SBS01

Tot Ion: 50 Resp: 83812

Ion Ratio Lower Upper

50 100

52 34.4 26.2 39.4



#4

Vinyl Chloride

Concen: 26.349 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061803.D

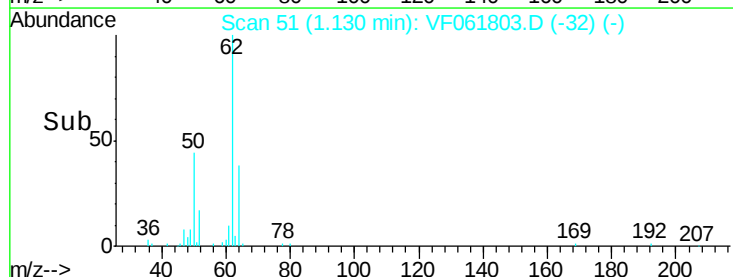
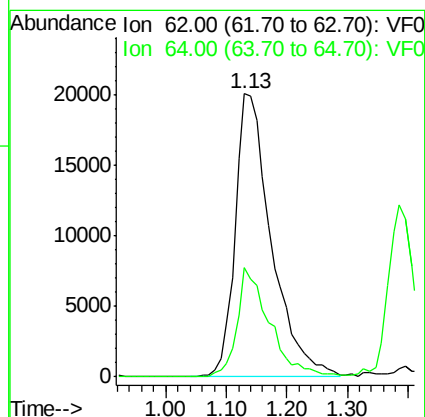
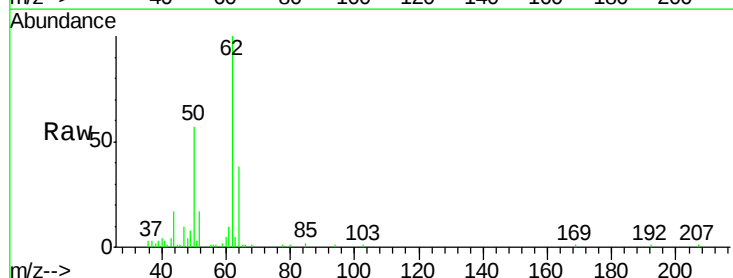
Acq: 1 Mar 2019 15:27

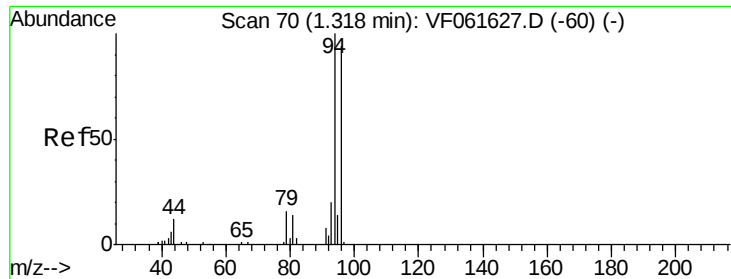
Tgt Ion: 62 Resp: 83871

Ion Ratio Lower Upper

62 100

64 38.4 27.5 41.3





#5

Bromomethane

Concen: 24.306 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

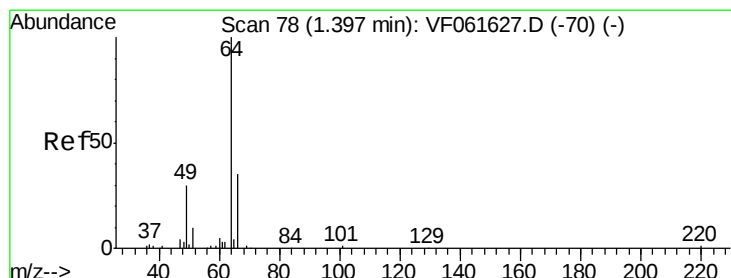
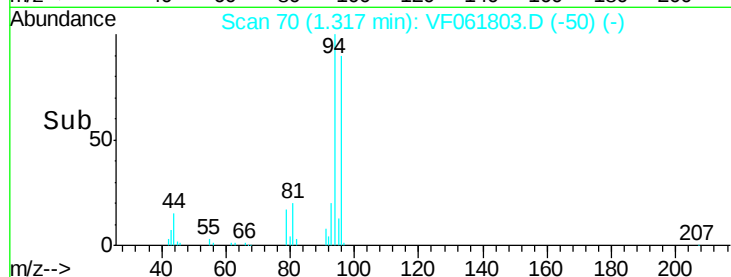
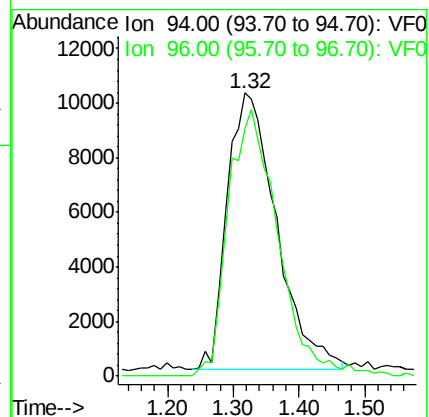
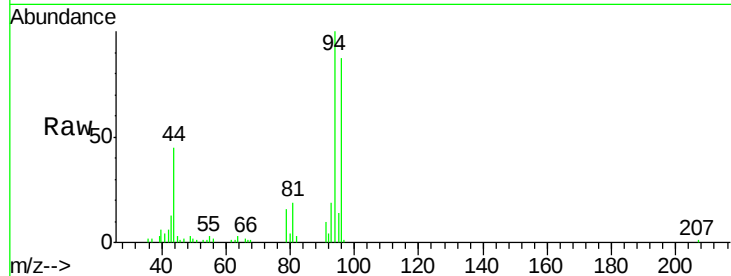
VF0301SBS01

Tot Ion: 94 Resp: 53248

Ion Ratio Lower Upper

94 100

96 87.4 74.6 112.0



#6

Chloroethane

Concen: 23.954 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061803.D

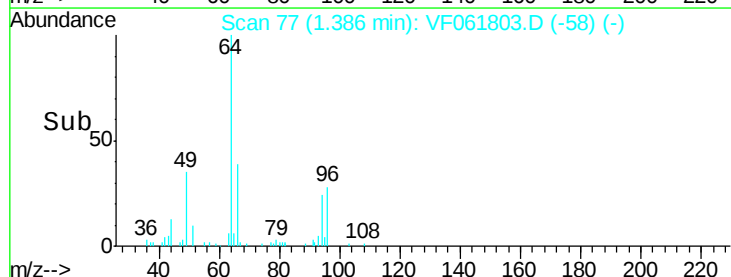
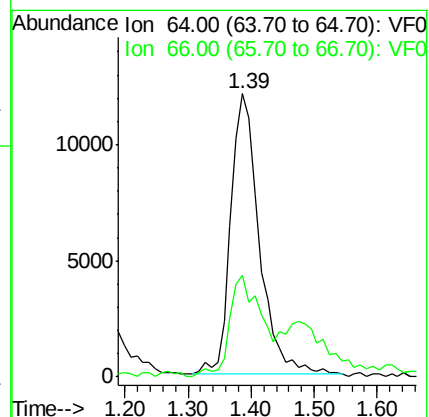
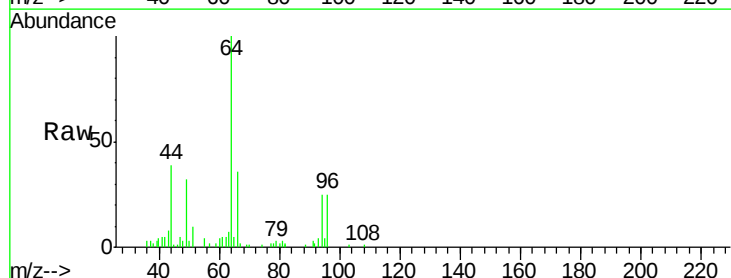
Acq: 1 Mar 2019 15:27

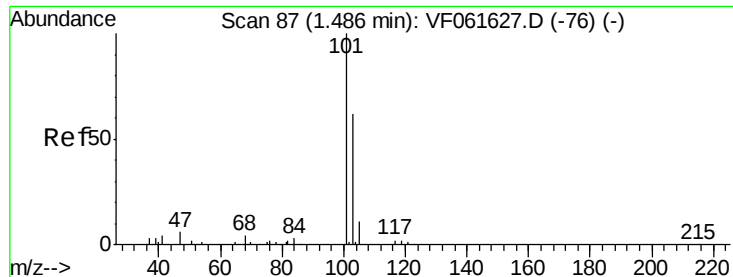
Tgt Ion: 64 Resp: 37575

Ion Ratio Lower Upper

64 100

66 35.8 27.9 41.9



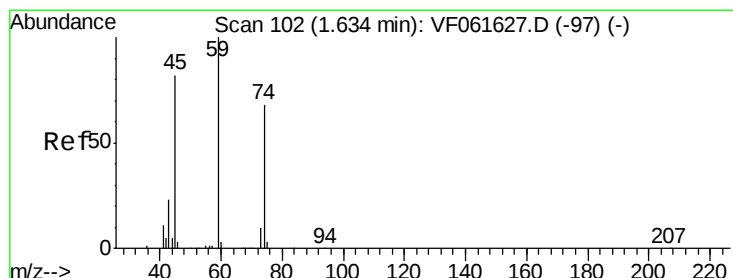
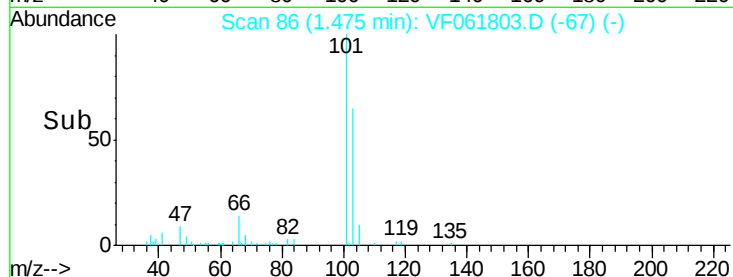
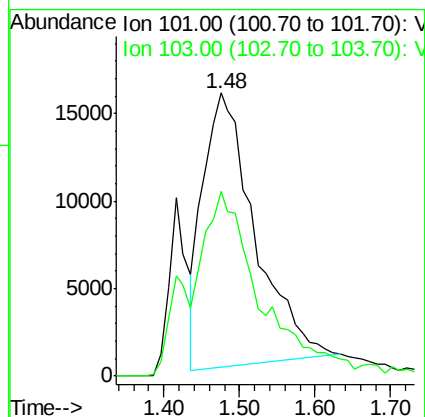
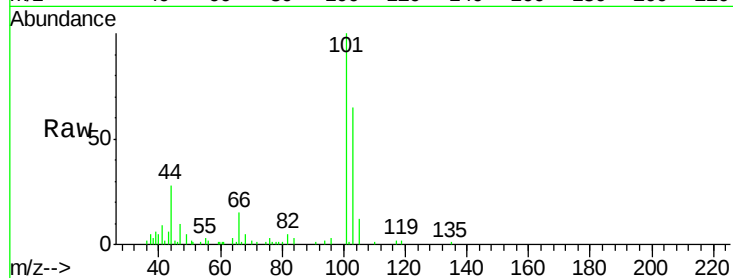


#7

Trichlorofluoromethane
Concen: 19.417 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

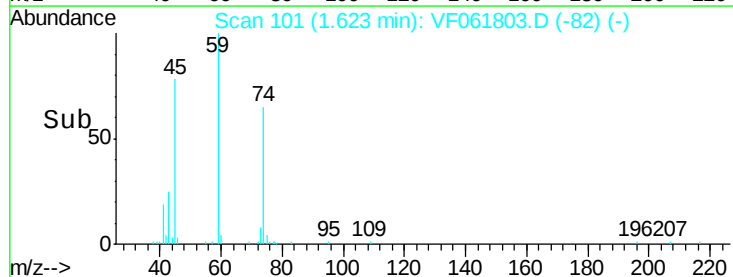
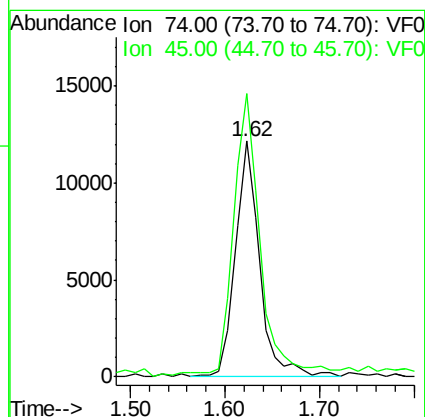
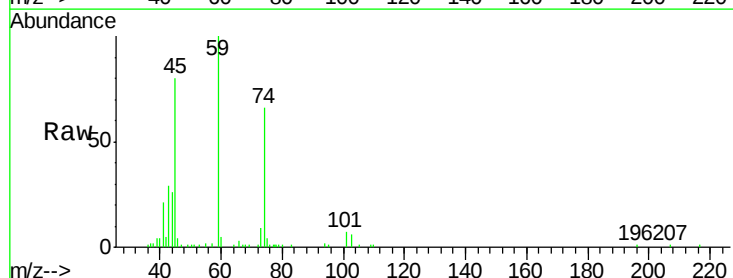
Tot Ion:101 Resp: 74546
Ion Ratio Lower Upper
101 100
103 65.1 49.3 73.9

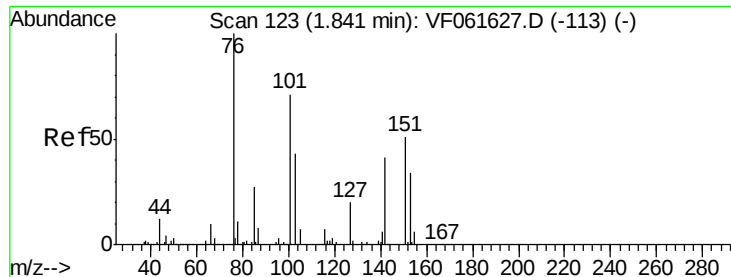


#8

Diethyl Ether
Concen: 22.472 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 74 Resp: 21742
Ion Ratio Lower Upper
74 100
45 120.2 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.641 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

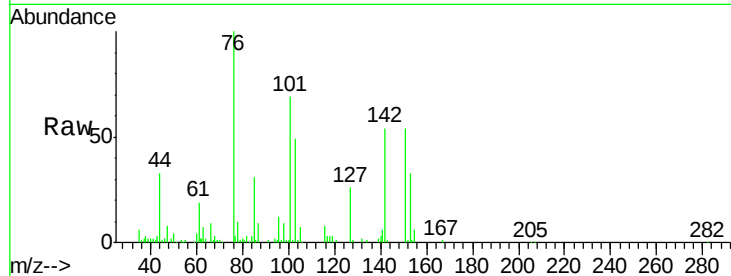
Tot Ion:101 Resp: 71014

Ion Ratio Lower Upper

101 100

85 45.4 29.8 44.6#

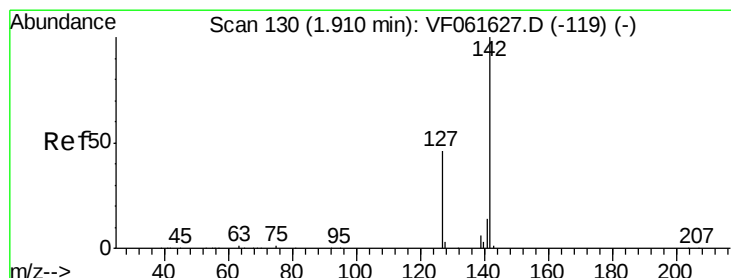
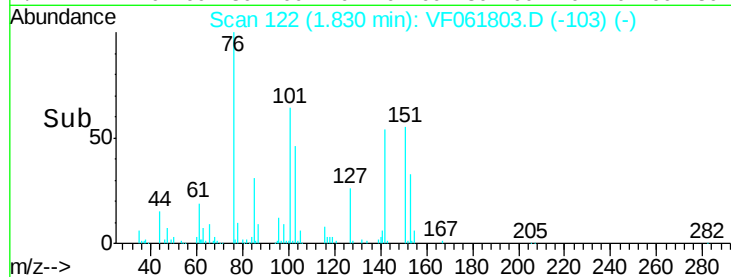
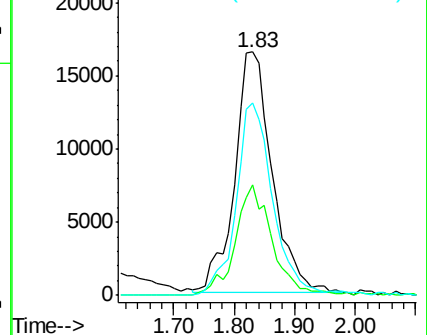
151 79.3 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 19.095 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

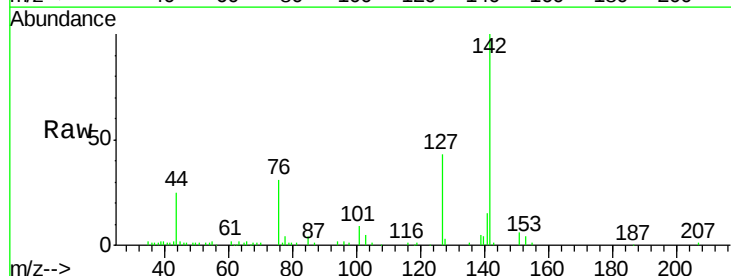
Tgt Ion:142 Resp: 101021

Ion Ratio Lower Upper

142 100

127 42.8 36.6 55.0

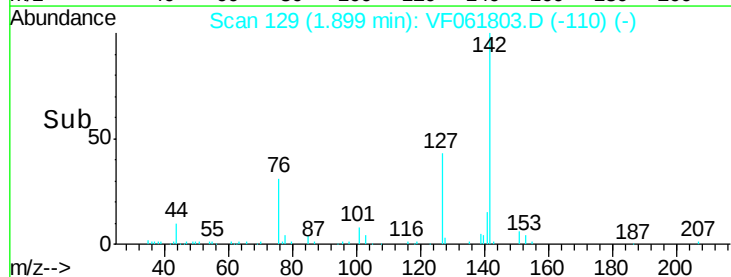
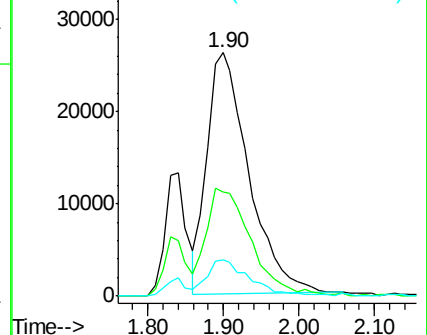
141 14.8 11.0 16.6

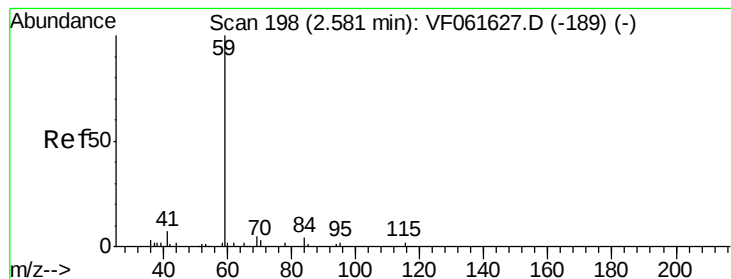


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



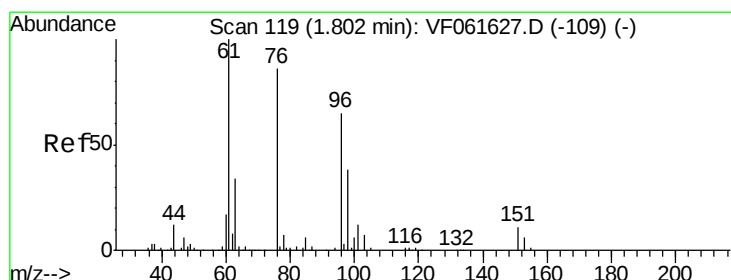
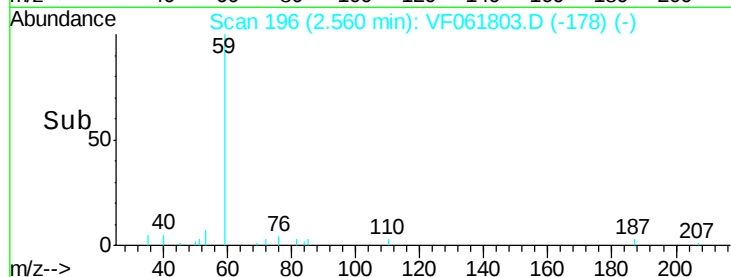
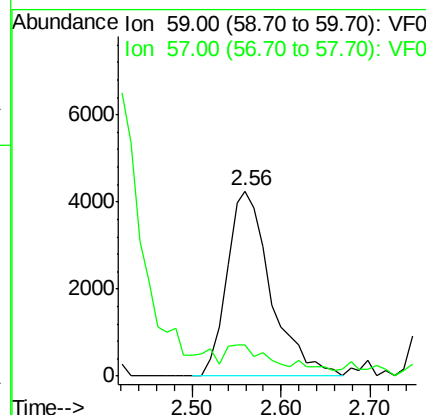
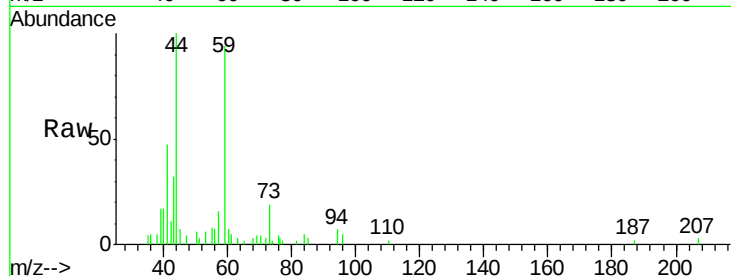


#11

Tert butyl alcohol
 Concen: 120.158 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

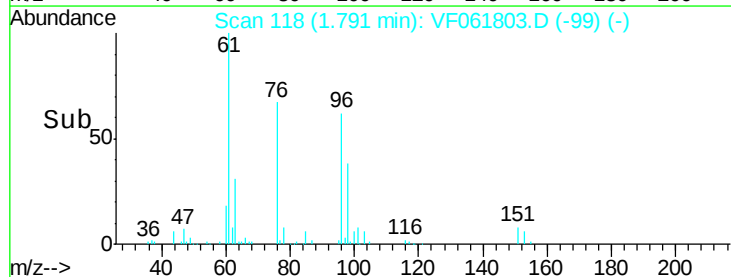
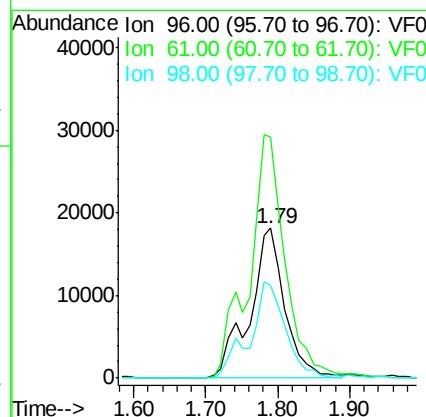
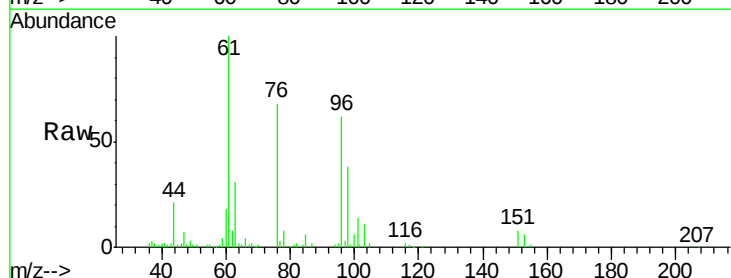
Tot Ion: 59 Resp: 14491
 Ion Ratio Lower Upper
 59 100
 57 16.9 12.5 18.7

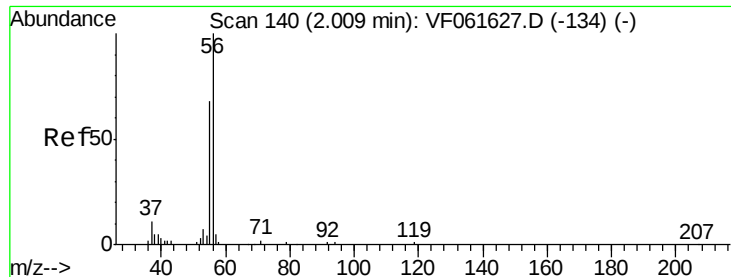


#12

1,1-Dichloroethene
 Concen: 25.408 ug/l
 RT: 1.79 min Scan# 118
 Delta R.T. -0.01 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion: 96 Resp: 61869
 Ion Ratio Lower Upper
 96 100
 61 160.7 122.6 184.0
 98 61.6 47.2 70.8





#13

Acrolein

Concen: 87.727 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

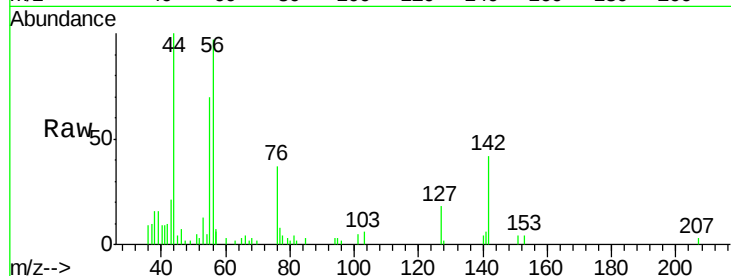
VF0301SBS01

Tot Ion: 56 Resp: 13297

Ion Ratio Lower Upper

56 100

55 71.4 55.0 82.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

1.99

5000

4000

3000

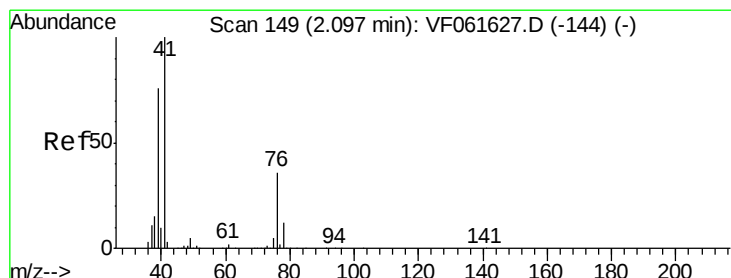
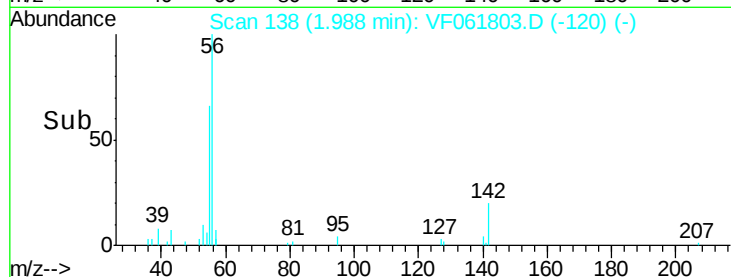
2000

1000

0

1.90 2.00 2.10

Time-->



#14

Allyl chloride

Concen: 24.146 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

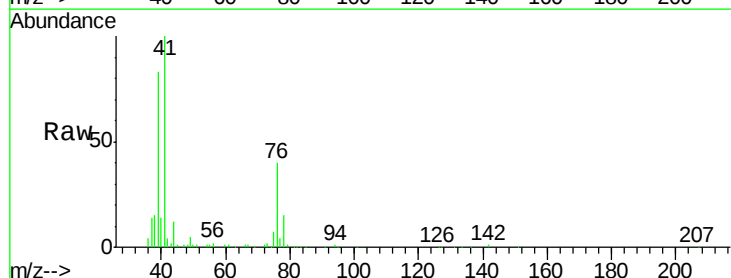
Tgt Ion: 41 Resp: 72149

Ion Ratio Lower Upper

41 100

39 82.9 61.6 92.4

76 39.5 30.3 45.5



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

2.09

40000

30000

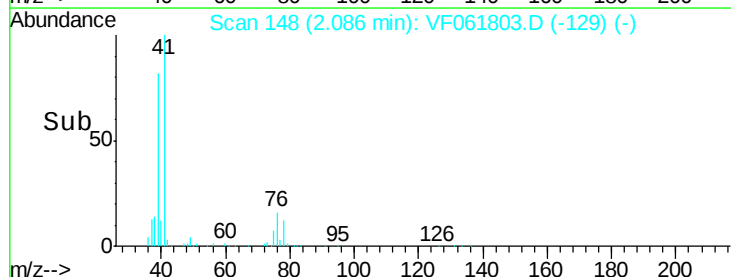
20000

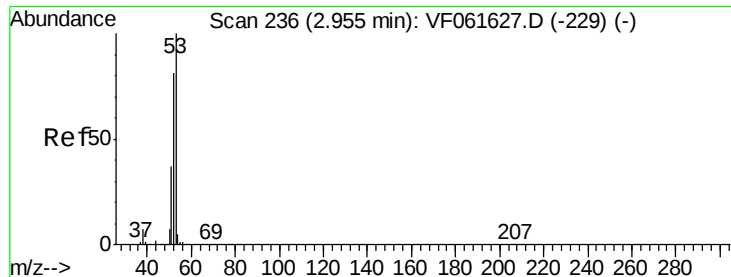
10000

0

2.00 2.05 2.10 2.15

Time-->





#15

Acrylonitrile

Concen: 109.072 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

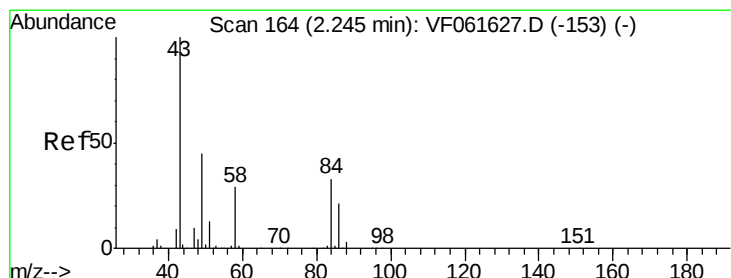
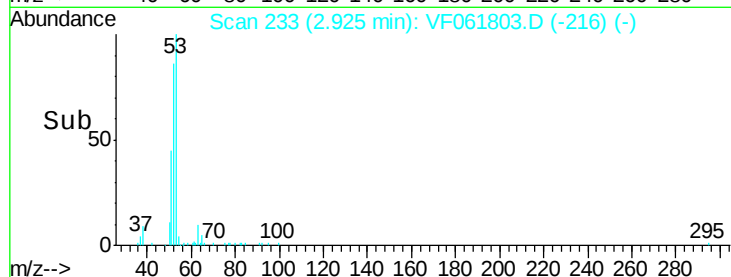
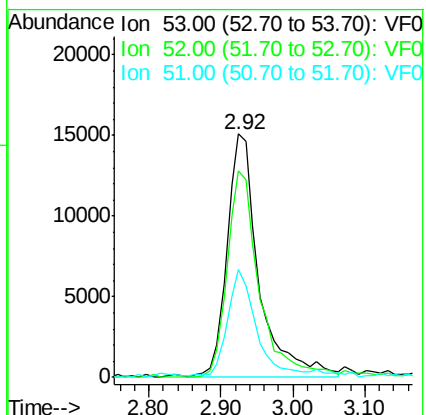
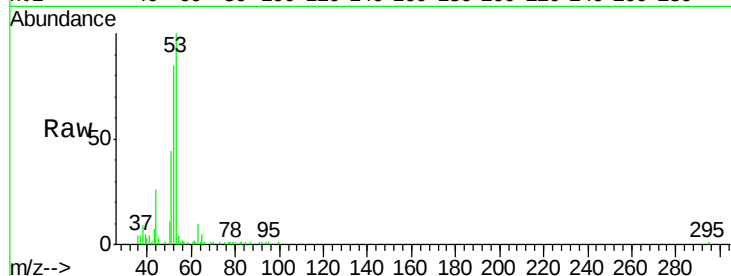
Tot Ion: 53 Resp: 46658

Ion Ratio Lower Upper

53 100

52 84.8 64.6 97.0

51 44.4 29.8 44.8



#16

Acetone

Concen: 132.127 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061803.D

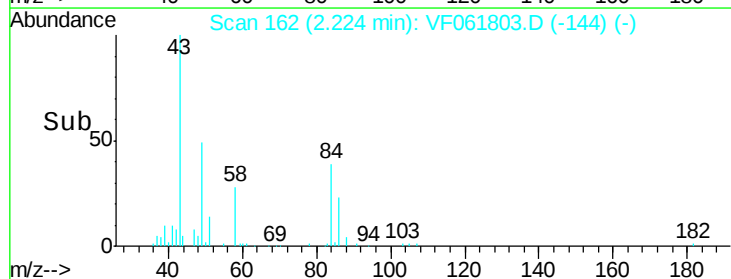
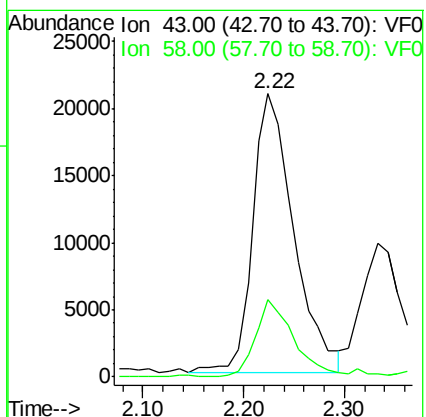
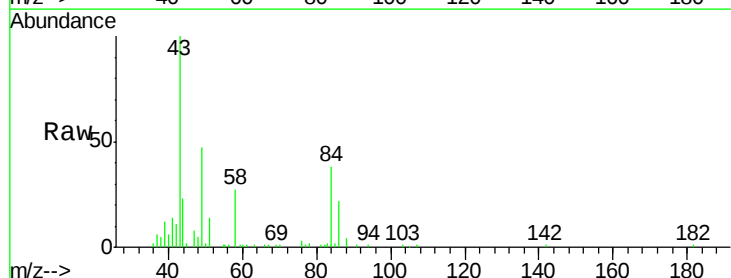
Acq: 1 Mar 2019 15:27

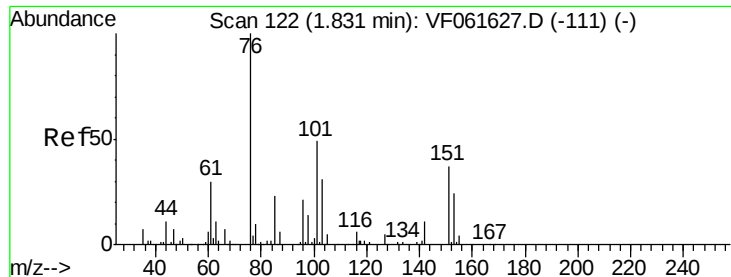
Tgt Ion: 43 Resp: 59074

Ion Ratio Lower Upper

43 100

58 27.3 22.9 34.3

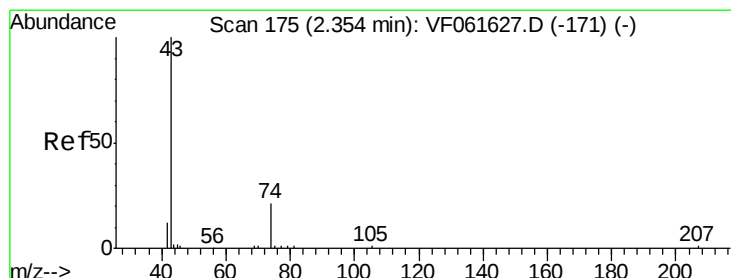
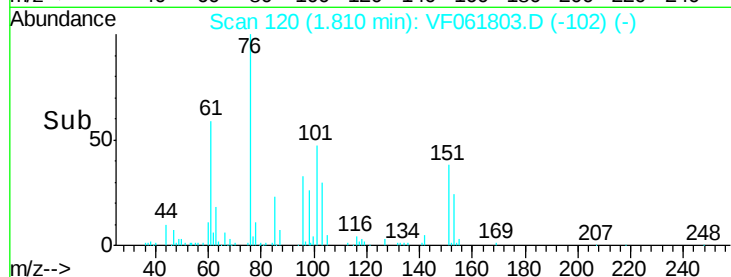
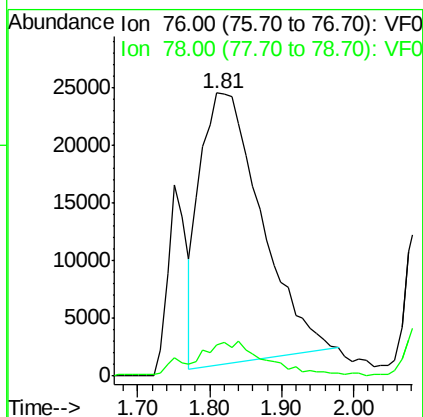
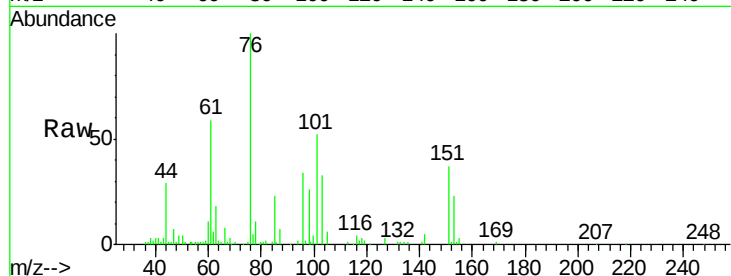




#17
Carbon Disulfide
Concen: 18.134 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

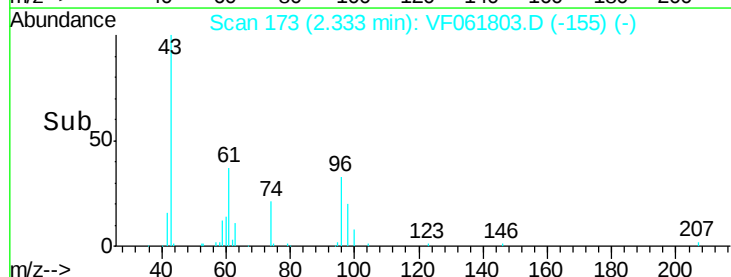
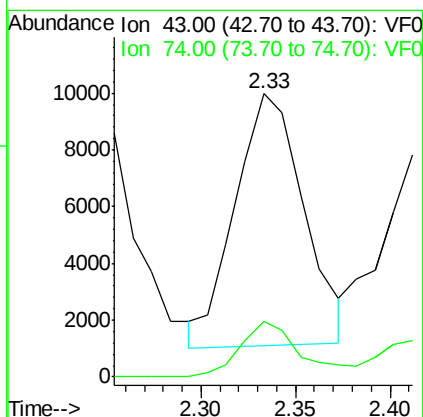
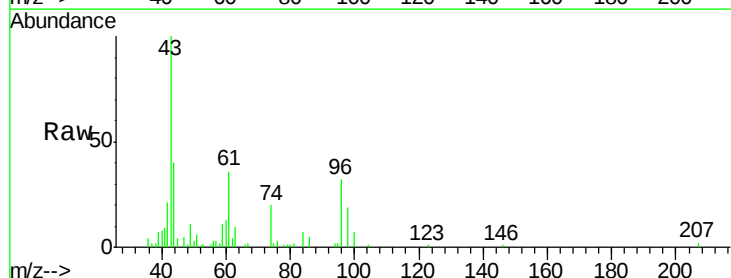
Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

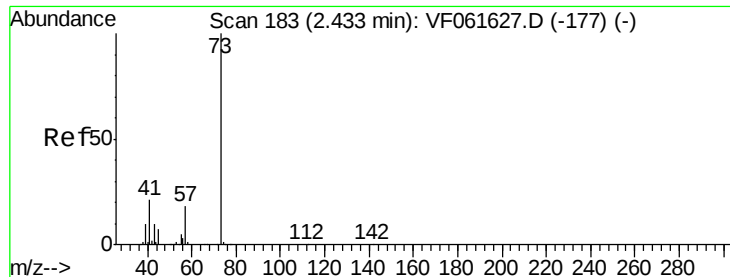
Tot Ion: 76 Resp: 138798
Ion Ratio Lower Upper
76 100
78 11.3 7.9 11.9



#18
Methyl Acetate
Concen: 22.261 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 43 Resp: 22421
Ion Ratio Lower Upper
43 100
74 19.6 14.6 21.8



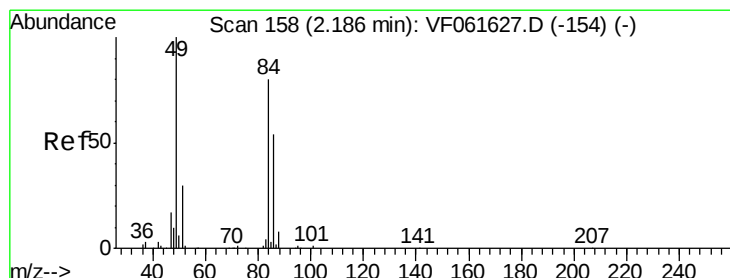
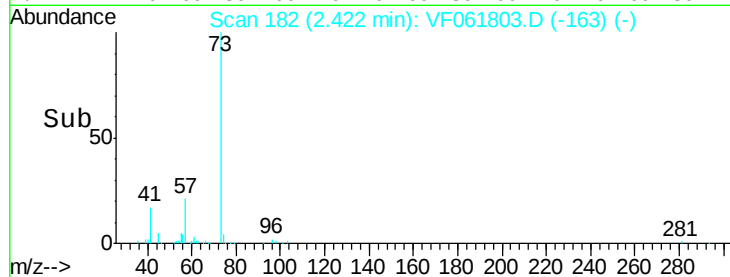
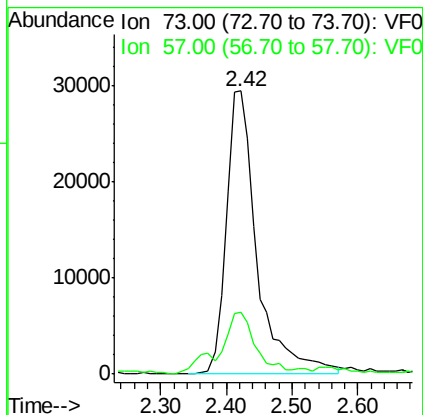
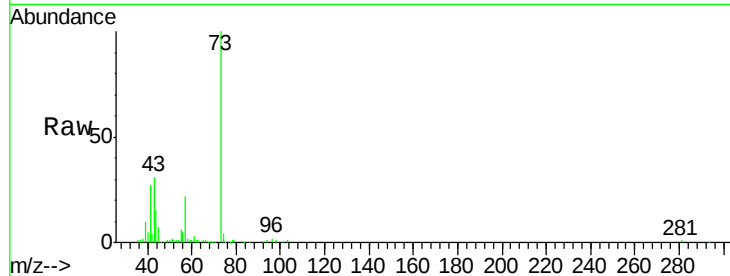


#19

Methyl tert-butyl Ether
 Concen: 23.242 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

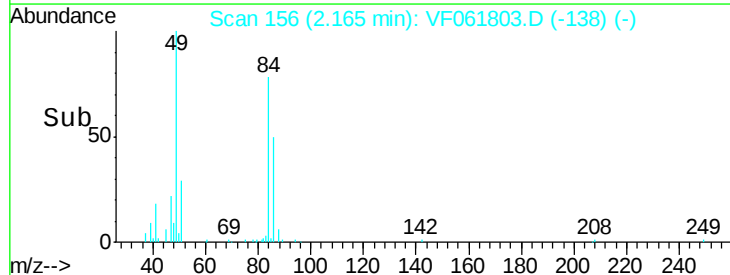
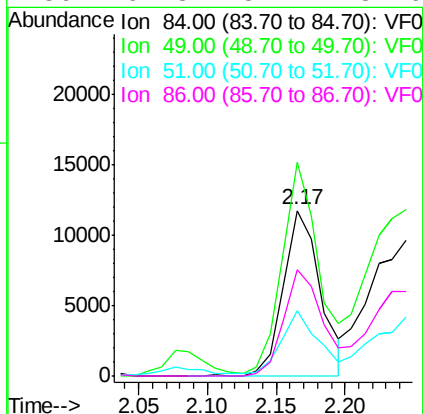
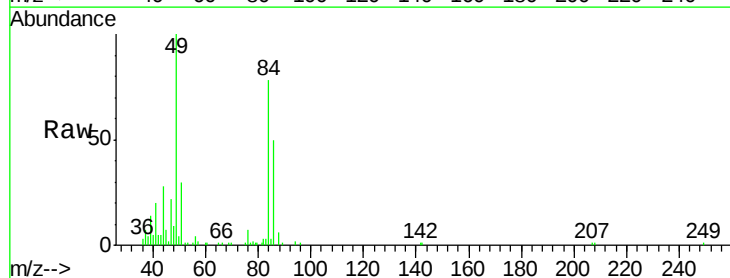
Tot Ion: 73 Resp: 96725
 Ion Ratio Lower Upper
 73 100
 57 22.0 15.8 23.8

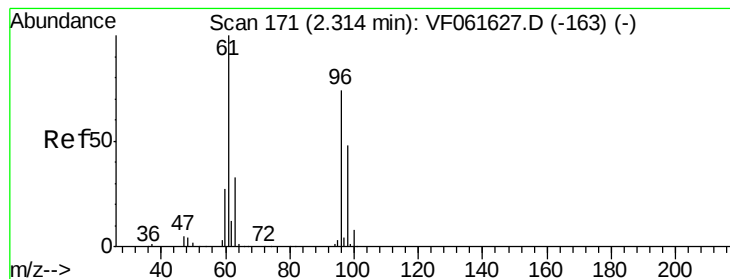


#20

Methylene Chloride
 Concen: 6.953 ug/l
 RT: 2.17 min Scan# 156
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion: 84 Resp: 21857
 Ion Ratio Lower Upper
 84 100
 49 129.0 101.8 152.8
 51 39.3 31.1 46.7
 86 64.3 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 22.815 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

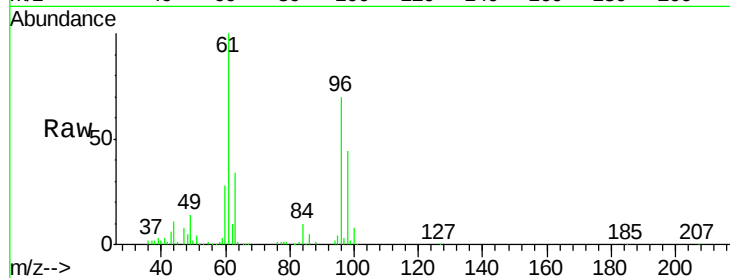
Tot Ion: 96 Resp: 60392

Ion Ratio Lower Upper

96 100

61 142.5 108.2 162.4

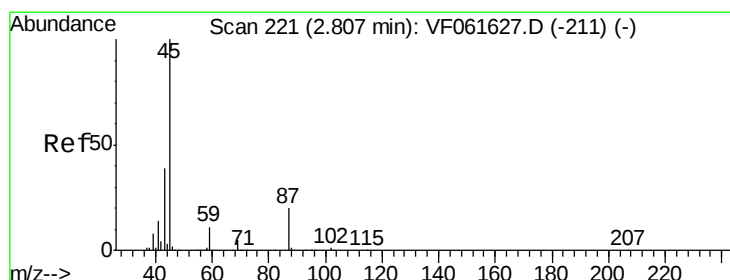
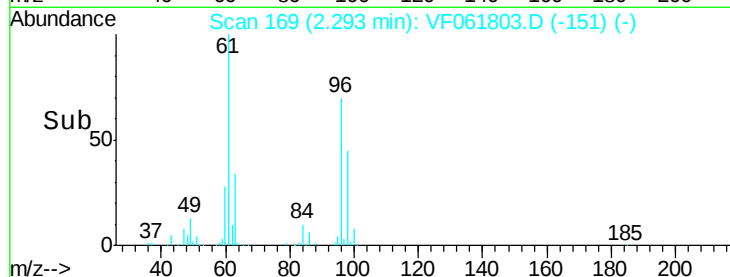
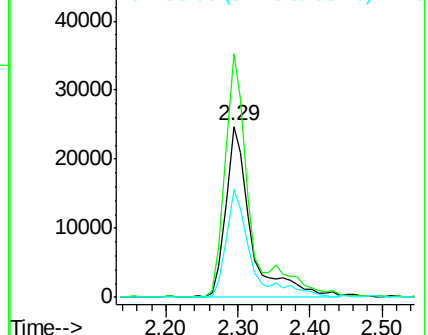
98 63.2 52.2 78.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 24.720 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion: 45 Resp: 177308

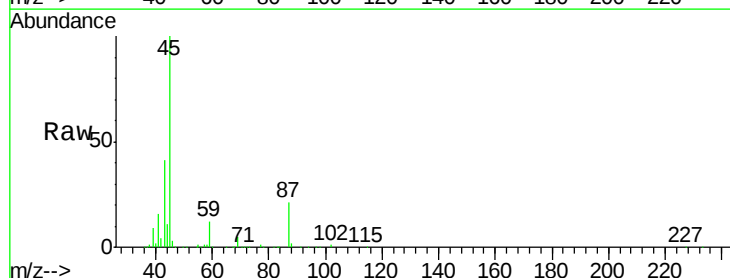
Ion Ratio Lower Upper

45 100

43 40.8 31.4 47.2

87 20.8 16.3 24.5

59 11.7 8.7 13.1

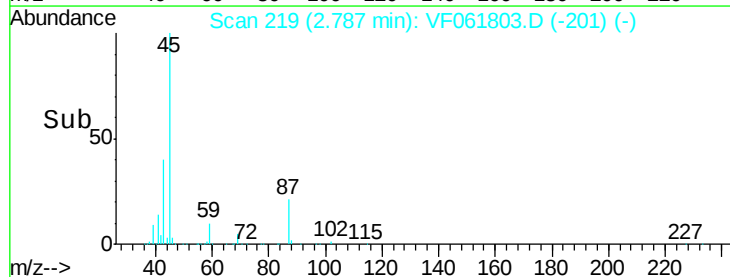
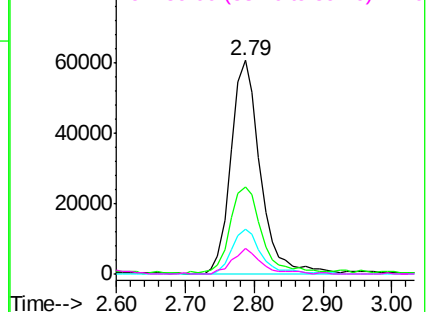


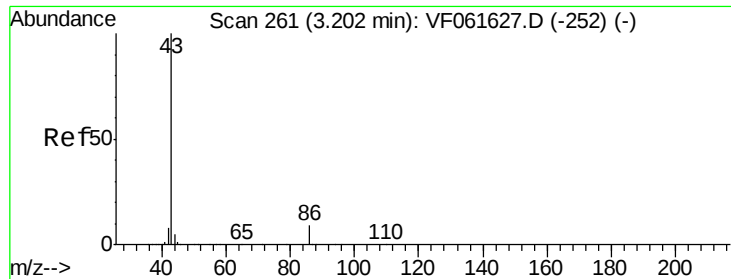
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 120.701 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

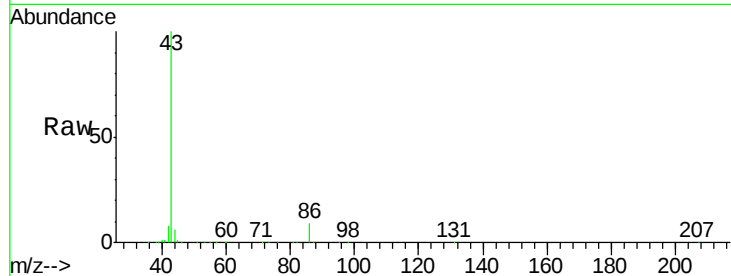
VF0301SBS01

Tot Ion: 43 Resp: 422851

Ion Ratio Lower Upper

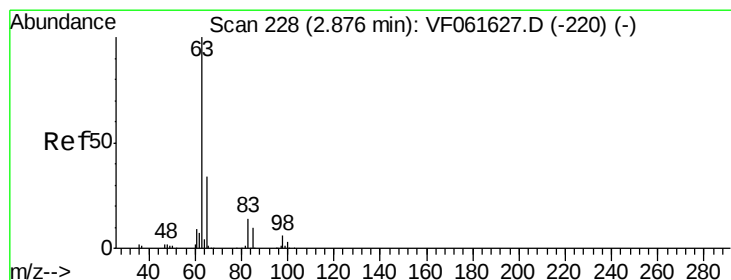
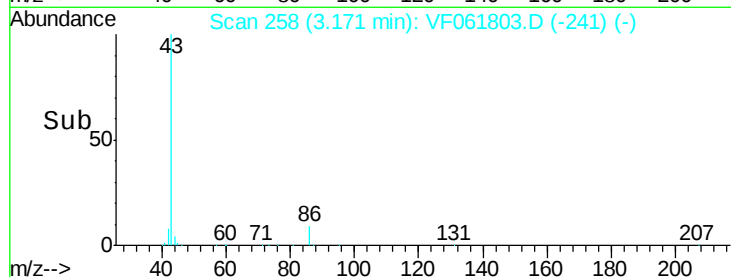
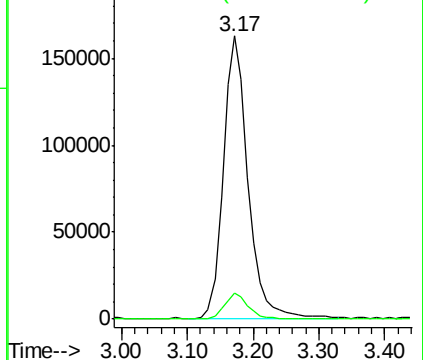
43 100

86 9.2 7.5 11.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 25.686 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

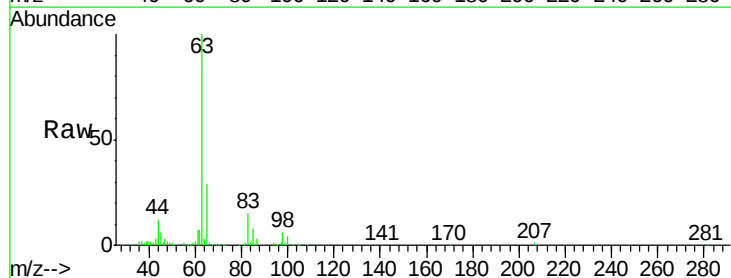
Tgt Ion: 63 Resp: 111492

Ion Ratio Lower Upper

63 100

98 5.9 2.8 8.3

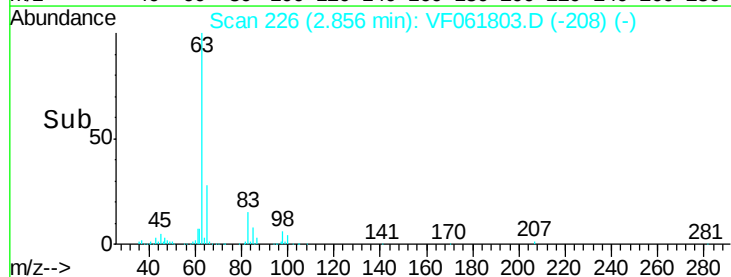
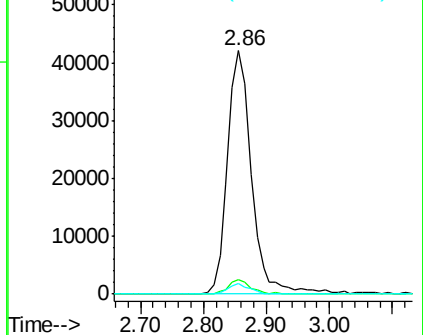
100 4.3 1.8 5.4

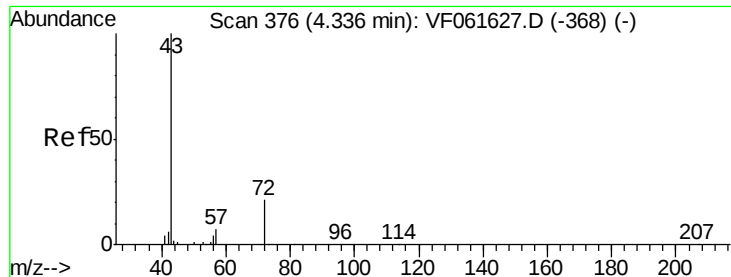


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 119.821 ug/l

RT: 4.31 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

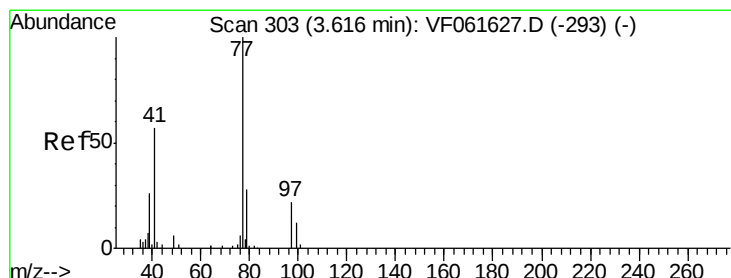
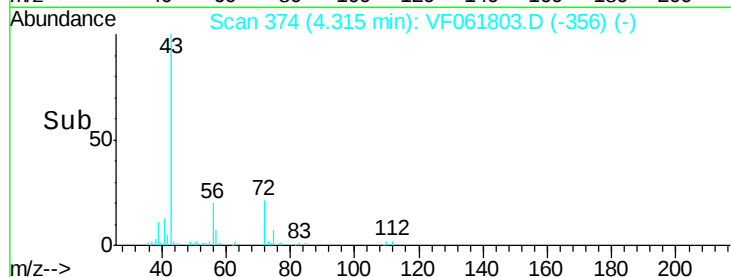
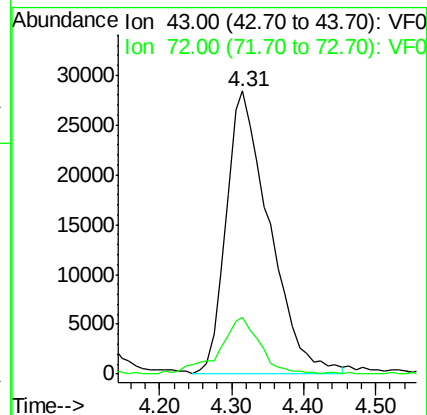
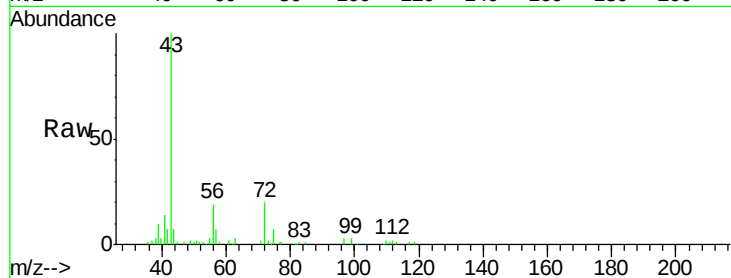
VF0301SBS01

Tot Ion: 43 Resp: 117018

Ion Ratio Lower Upper

43 100

72 20.0 17.1 25.7



#26

2,2-Dichloropropane

Concen: 23.781 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF061803.D

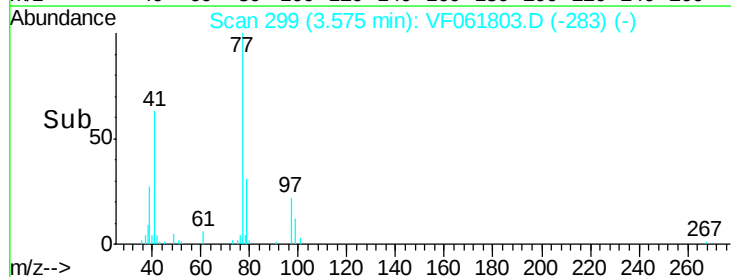
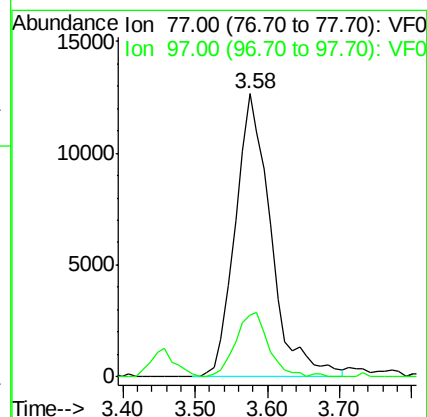
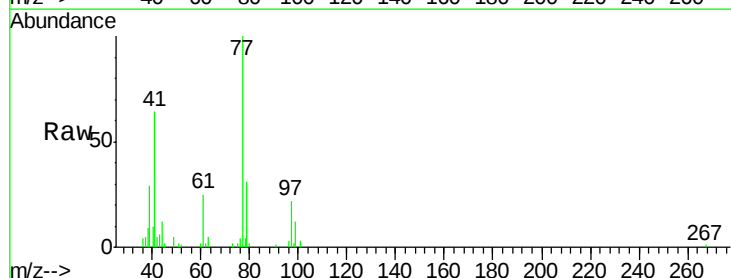
Acq: 1 Mar 2019 15:27

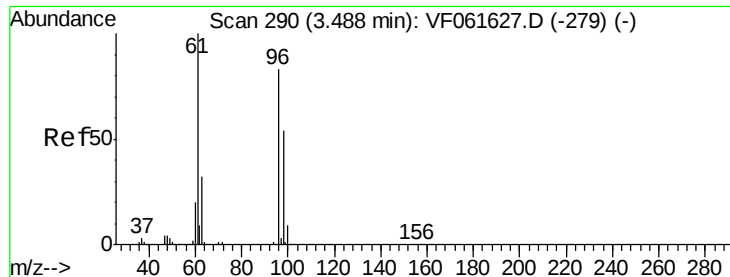
Tgt Ion: 77 Resp: 43724

Ion Ratio Lower Upper

77 100

97 21.9 11.7 35.0



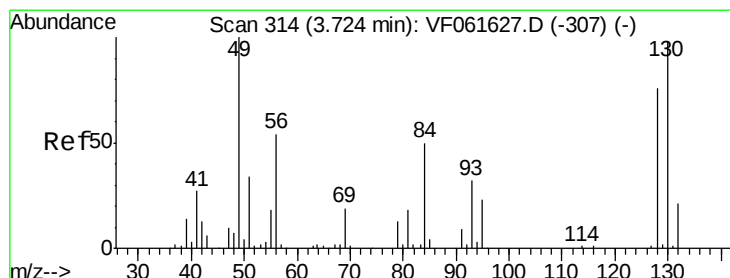
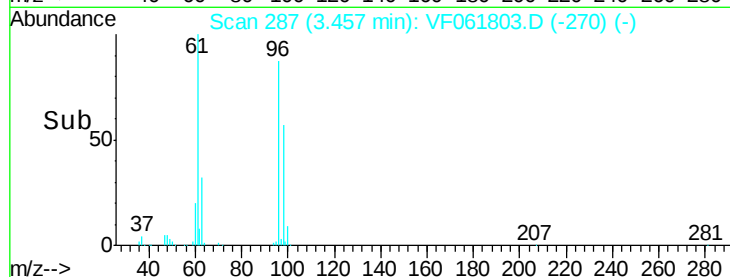
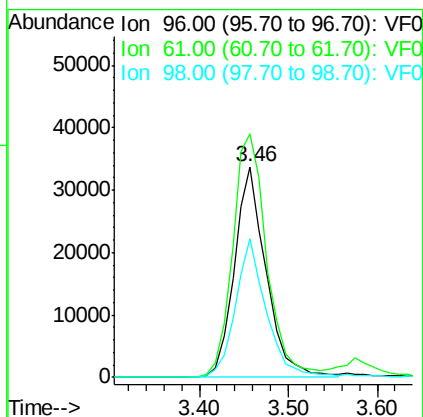
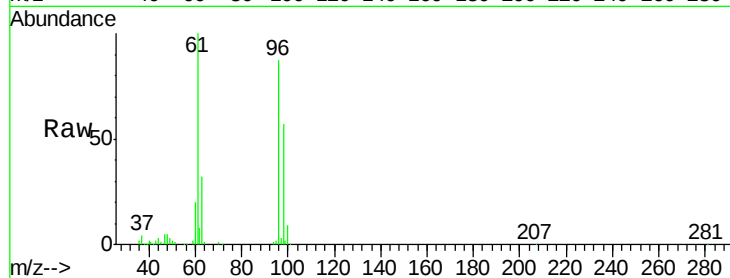


#27

cis-1,2-Dichloroethene
 Concen: 24.085 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

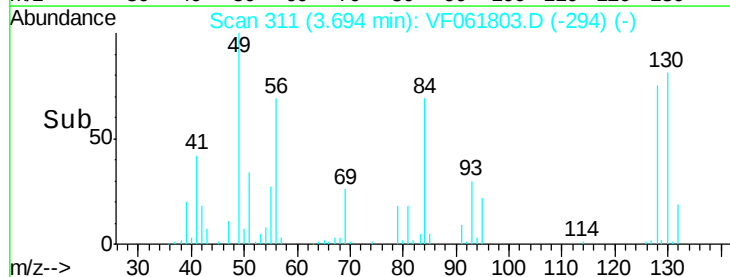
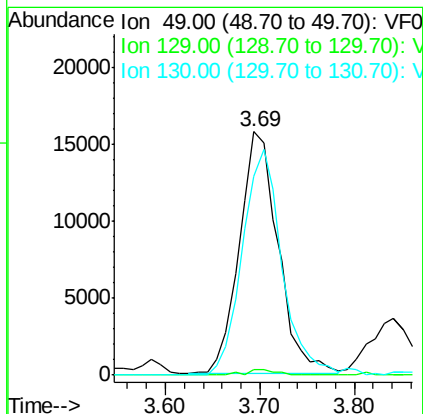
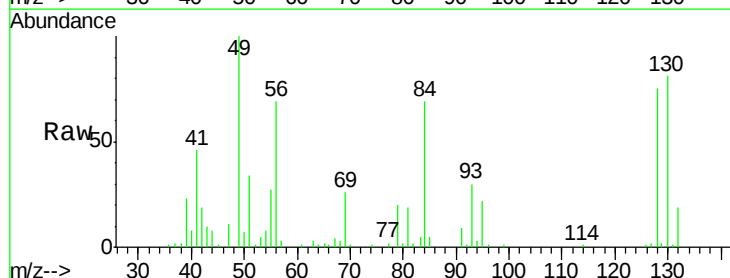
Tot Ion: 96 Resp: 83683
 Ion Ratio Lower Upper
 96 100
 61 115.4 0.0 241.6
 98 65.8 0.0 130.2

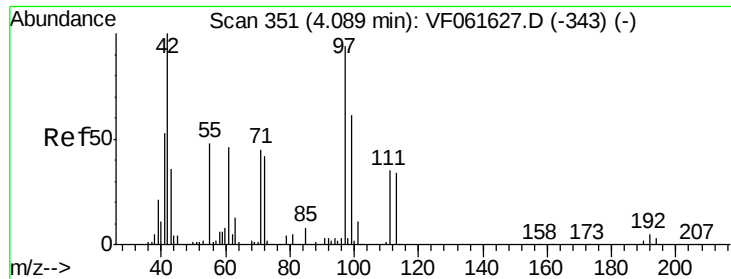


#28

Bromochloromethane
 Concen: 21.344 ug/l
 RT: 3.69 min Scan# 311
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion: 49 Resp: 44452
 Ion Ratio Lower Upper
 49 100
 129 2.3 0.0 3.4
 130 81.5 77.7 116.5

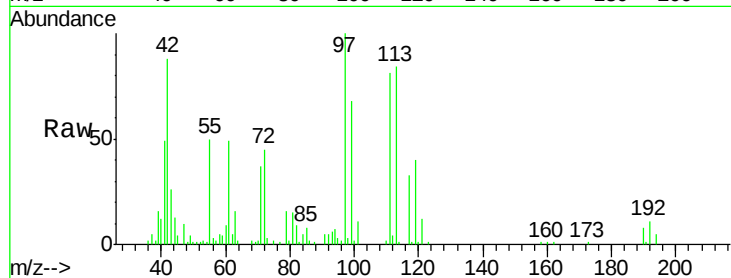




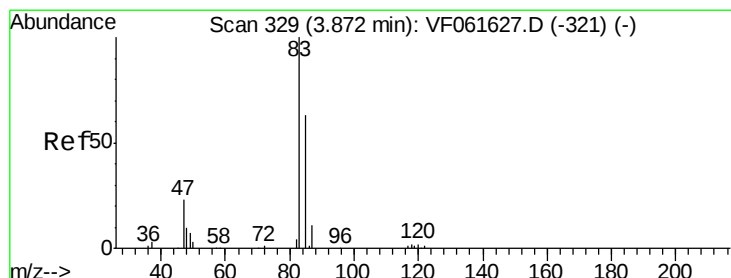
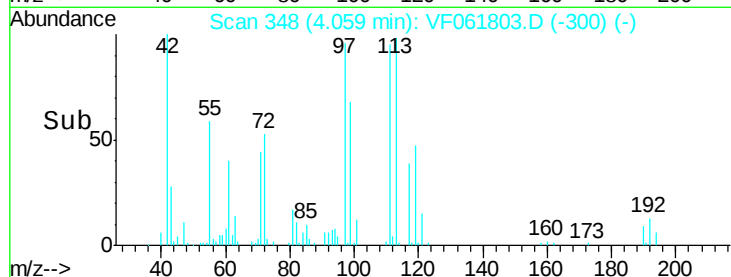
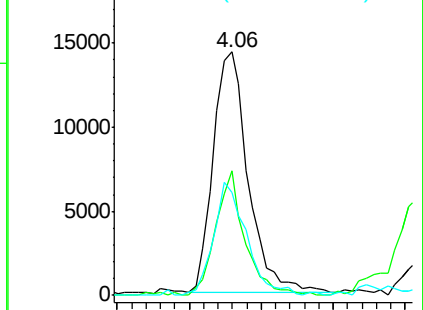
#29
Tetrahydrofuran
Concen: 108.614 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion: 42 Resp: 48211
Ion Ratio Lower Upper
42 100
72 43.1 35.2 52.8
71 44.0 32.9 49.3

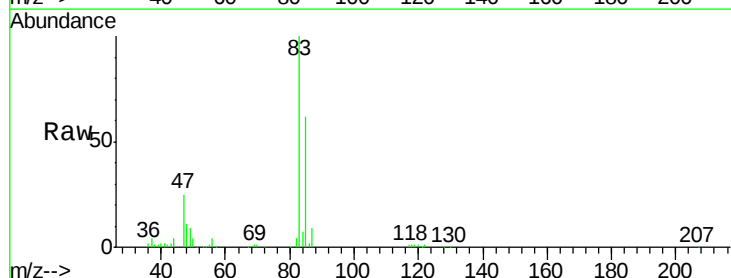


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

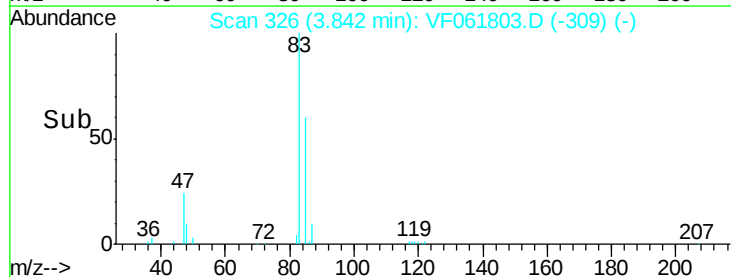
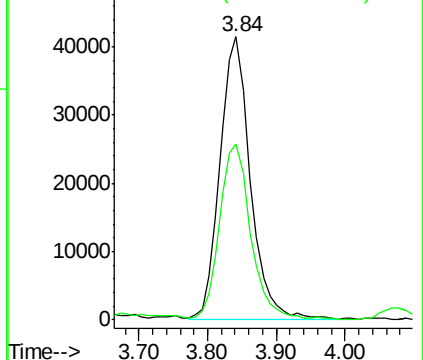


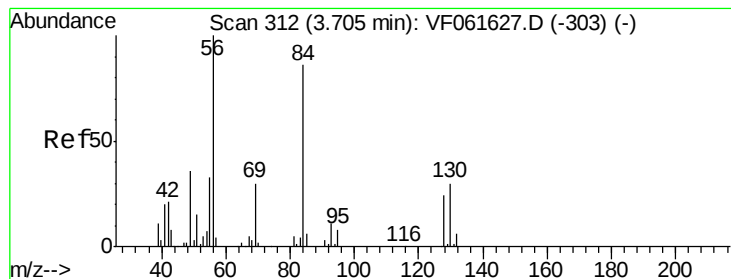
#30
Chloroform
Concen: 25.512 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 83 Resp: 125933
Ion Ratio Lower Upper
83 100
85 61.9 51.1 76.7



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





#31

Cyclohexane

Concen: 14.603 ug/l

RT: 3.66 min Scan# 308

Delta R.T. -0.04 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

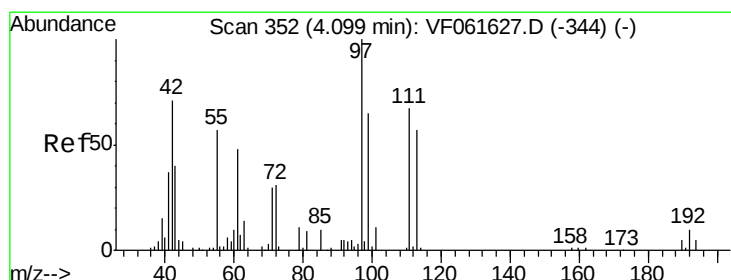
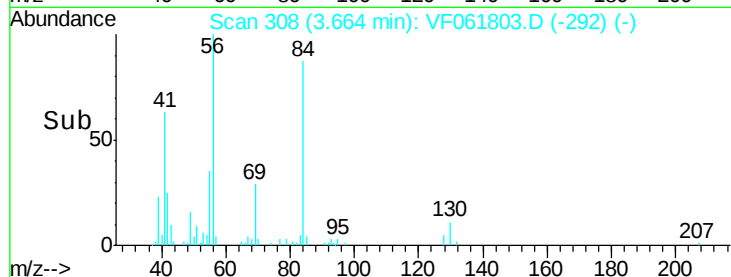
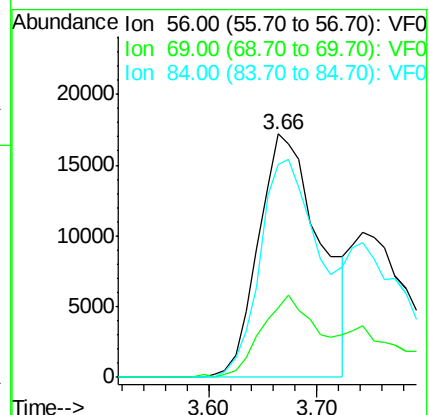
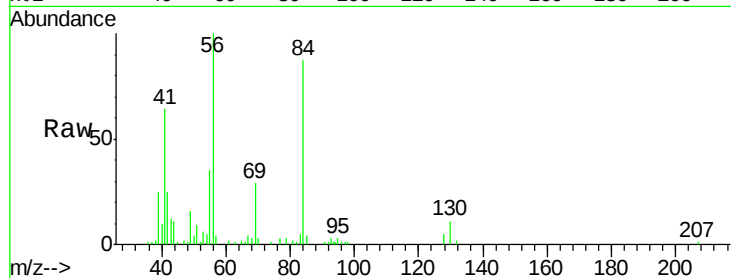
Tot Ion: 56 Resp: 68618

Ion Ratio Lower Upper

56 100

69 28.8 23.8 35.8

84 87.3 68.6 103.0



#32

1,1,1-Trichloroethane

Concen: 21.637 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

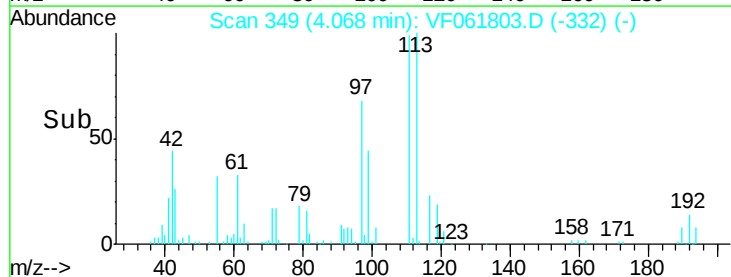
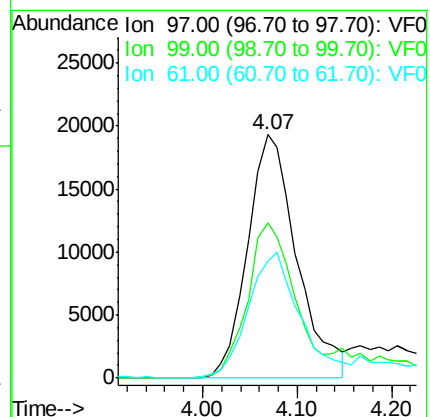
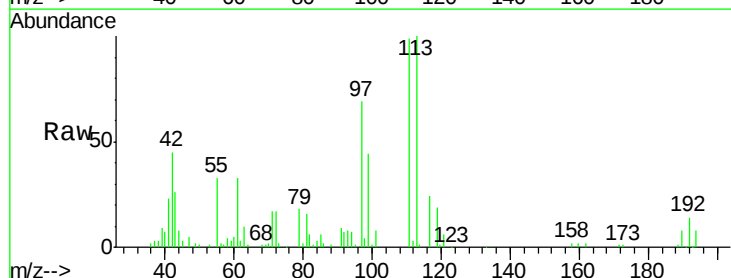
Tgt Ion: 97 Resp: 69966

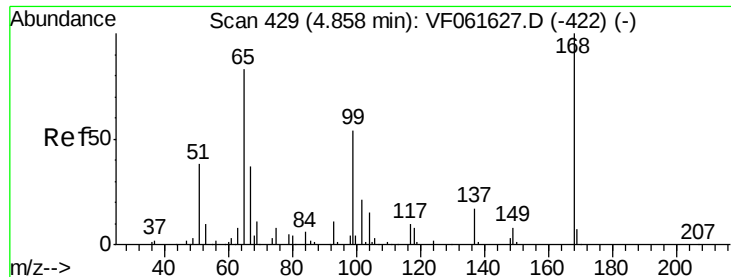
Ion Ratio Lower Upper

97 100

99 63.9 52.2 78.2

61 48.1 39.2 58.8

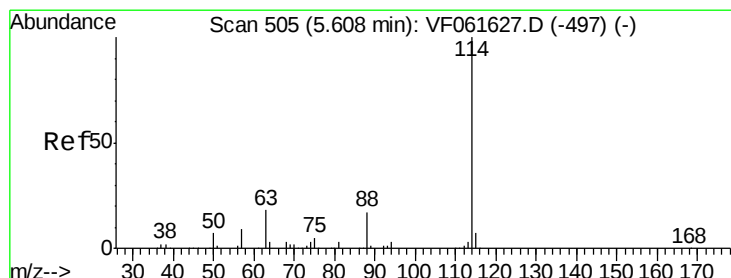
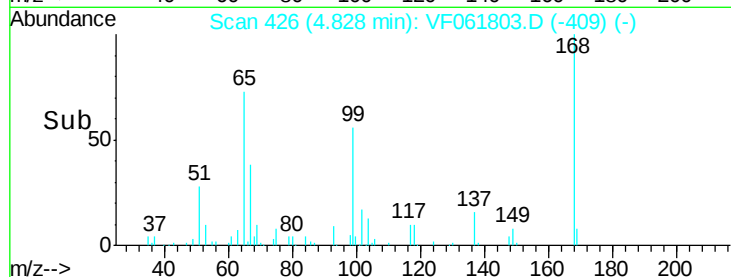
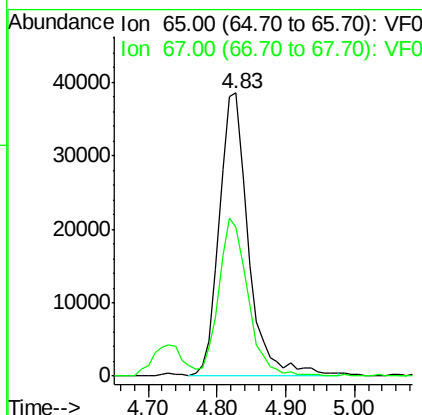
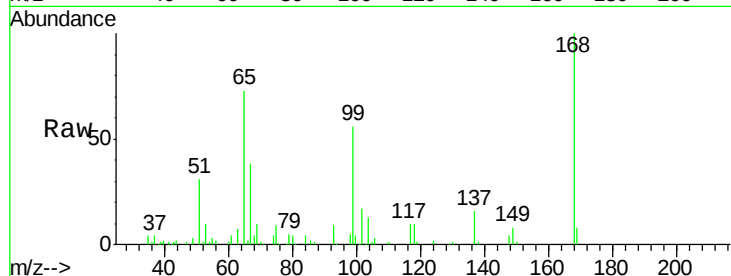




#33
 1,2-Dichloroethane-d4
 Concen: 54.581 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

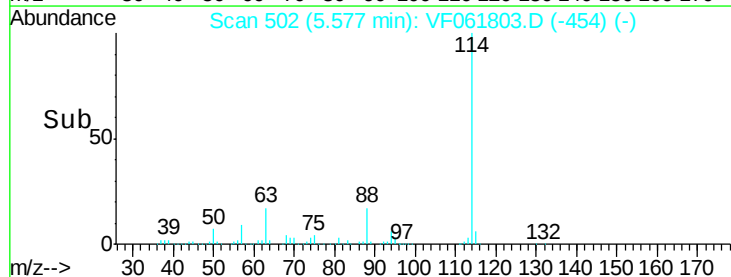
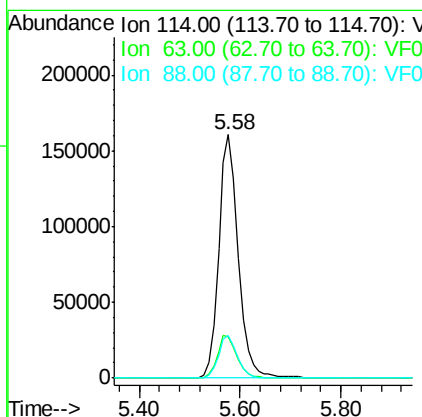
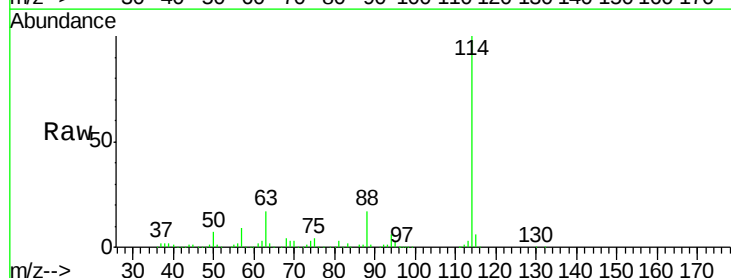
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

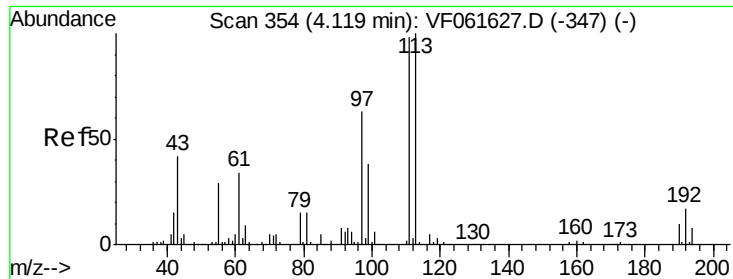
Tot Ion: 65 Resp: 113739
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion: 114 Resp: 434198
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 36.6
 88 17.3 0.0 34.4

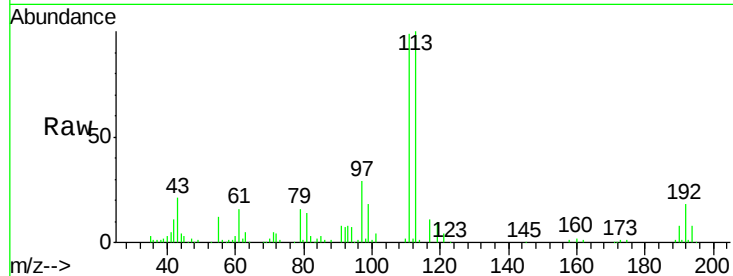




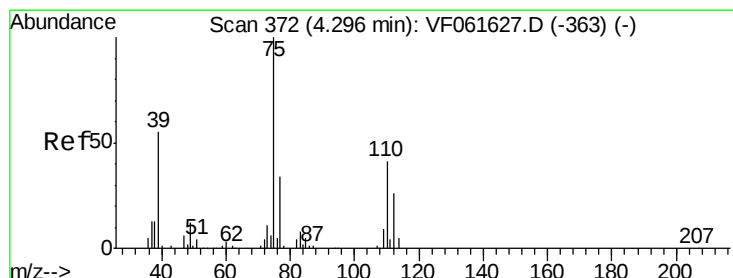
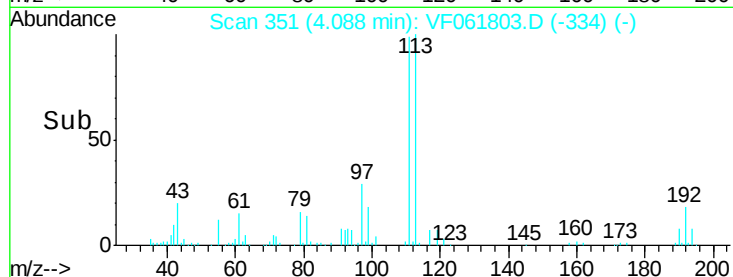
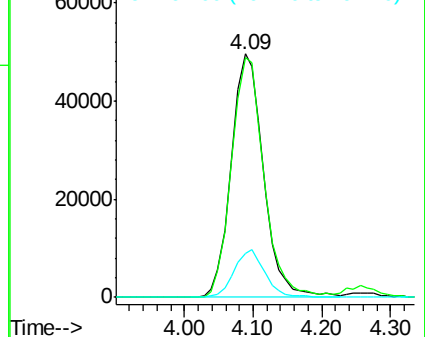
#35
 Dibromofluoromethane
 Concen: 50.106 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Tot Ion:113 Resp: 161561
 Ion Ratio Lower Upper
 113 100
 111 98.6 78.8 118.2
 192 18.1 13.4 20.0

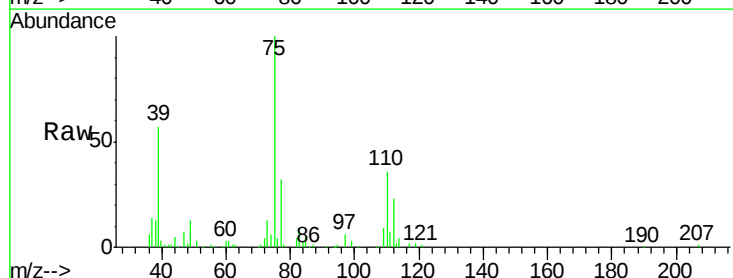


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

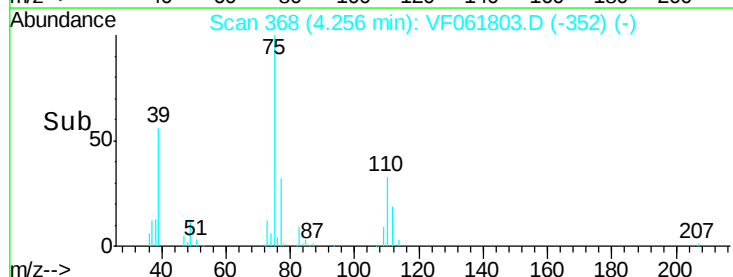
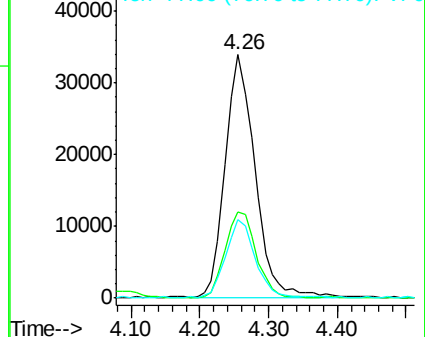


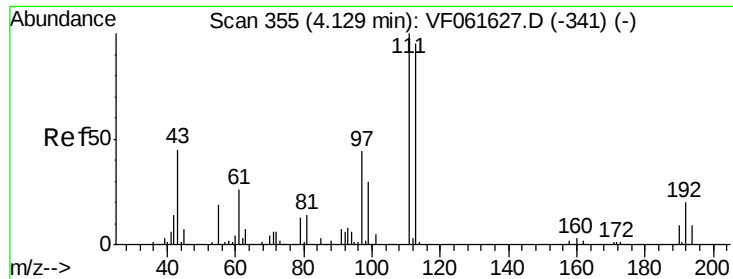
#36
 1,1-Dichloropropene
 Concen: 23.655 ug/l
 RT: 4.26 min Scan# 368
 Delta R.T. -0.04 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion: 75 Resp: 101745
 Ion Ratio Lower Upper
 75 100
 110 35.6 20.5 61.6
 77 32.0 27.0 40.4



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

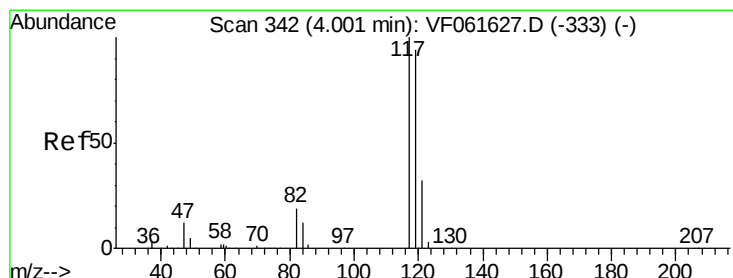
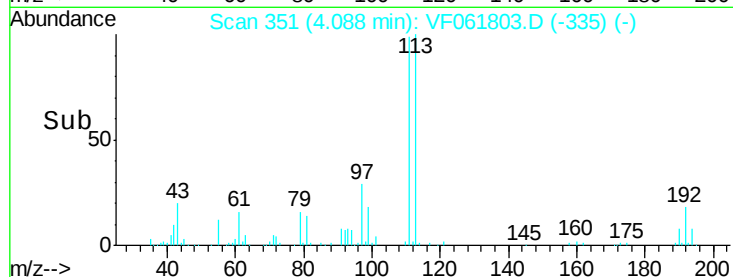
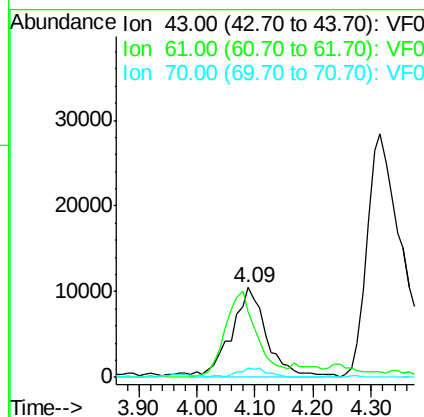
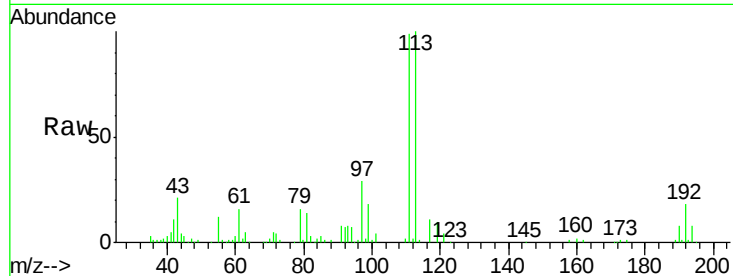




#37
Ethyl Acetate
Concen: 21.402 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.04 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

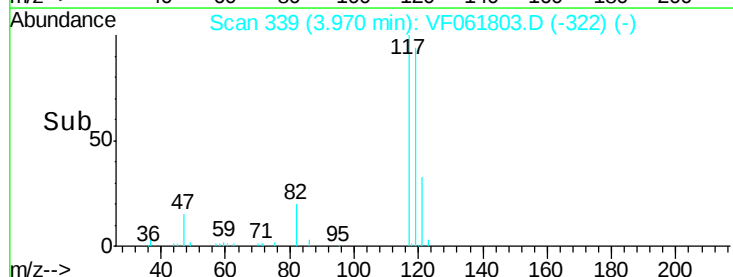
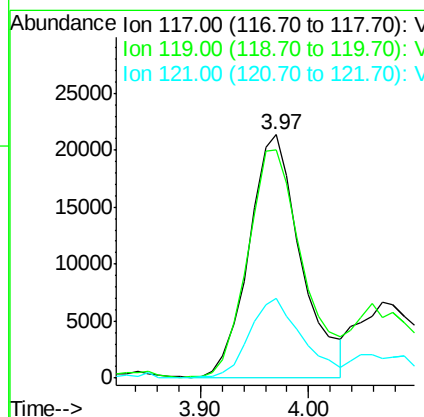
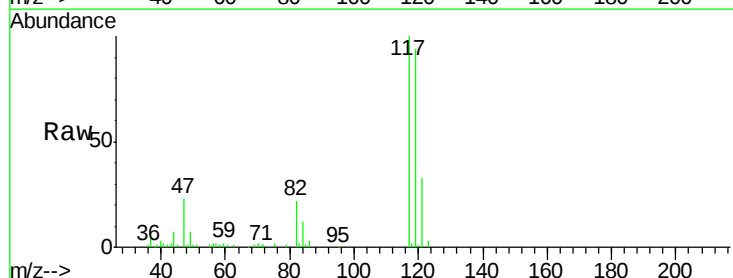
Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

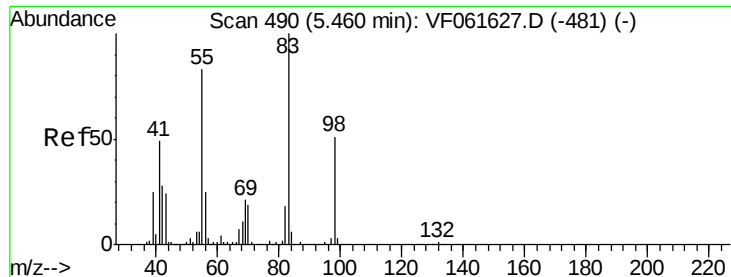
Tot Ion: 43 Resp: 42757
Ion Ratio Lower Upper
43 100
61 73.6 45.7 68.5#
70 10.1 8.5 12.7



#38
Carbon Tetrachloride
Concen: 24.236 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 117 Resp: 71982
Ion Ratio Lower Upper
117 100
119 93.7 75.6 113.4
121 32.5 25.2 37.8

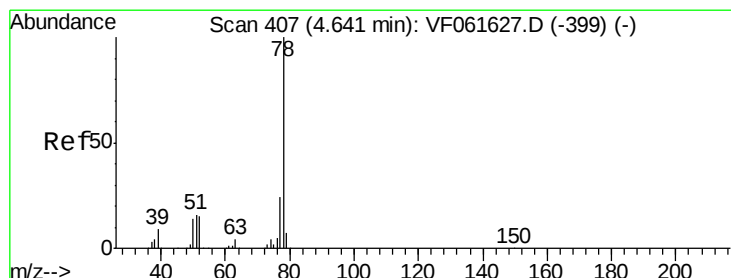
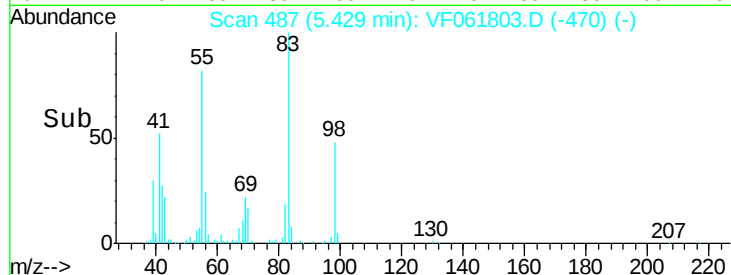
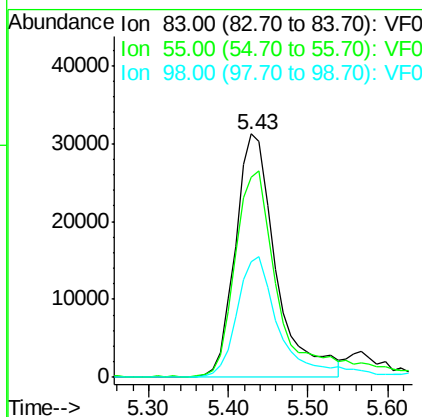
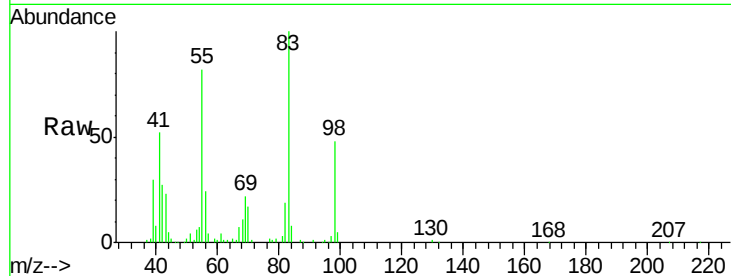




#39
Methvlcvclohexane
Concen: 21.800 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

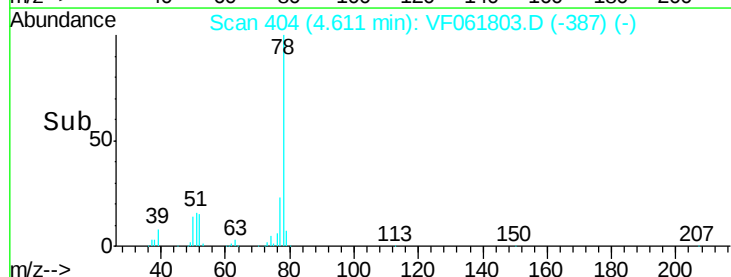
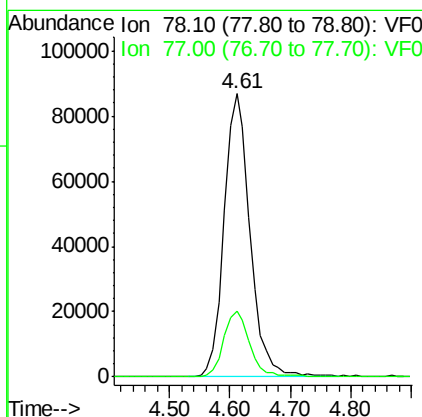
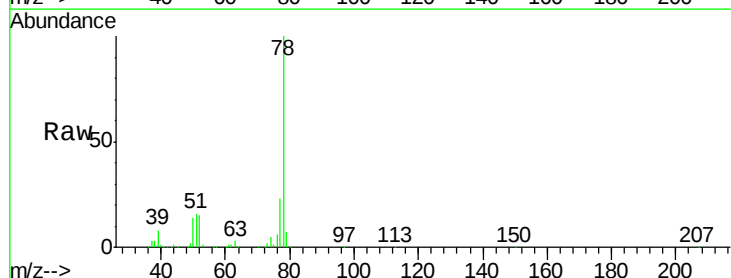
Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

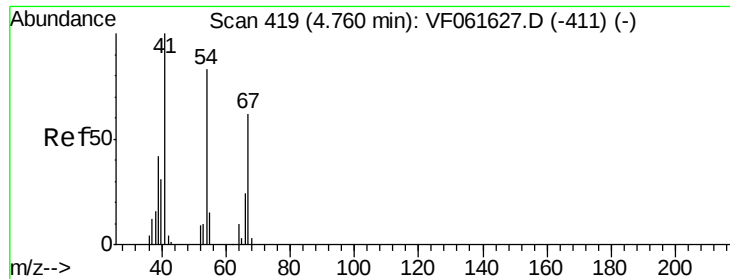
Tot Ion: 83 Resp: 110893
Ion Ratio Lower Upper
83 100
55 82.2 66.6 99.8
98 47.5 40.4 60.6



#40
Benzene
Concen: 23.003 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 78 Resp: 258796
Ion Ratio Lower Upper
78 100
77 23.1 19.0 28.6

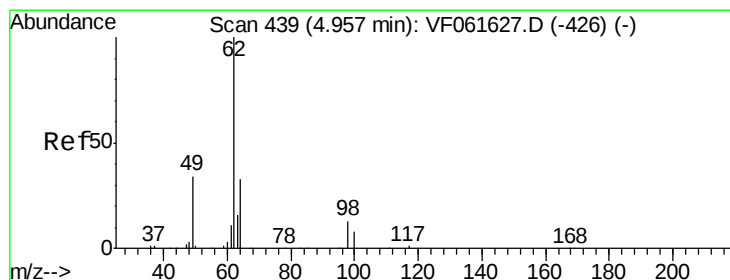
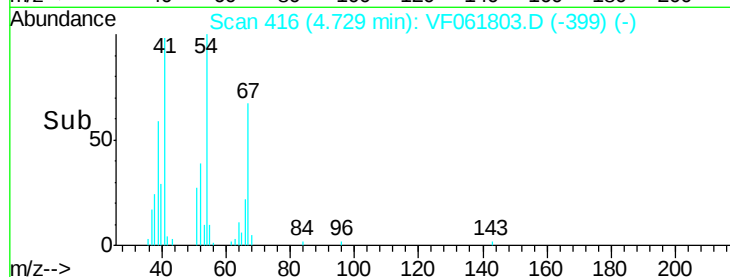
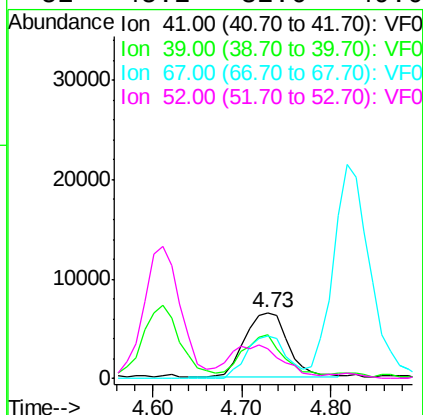
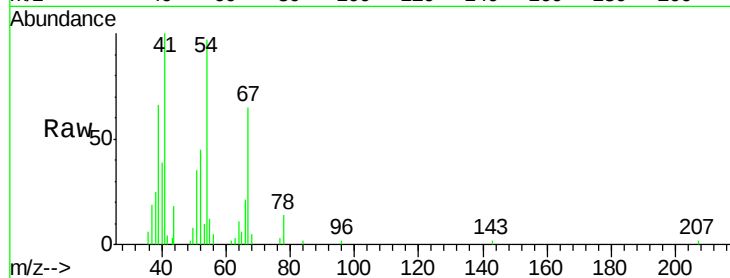




#41
Methacrylonitrile
Concen: 21.125 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

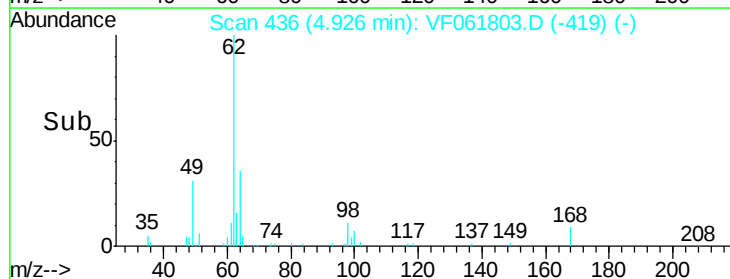
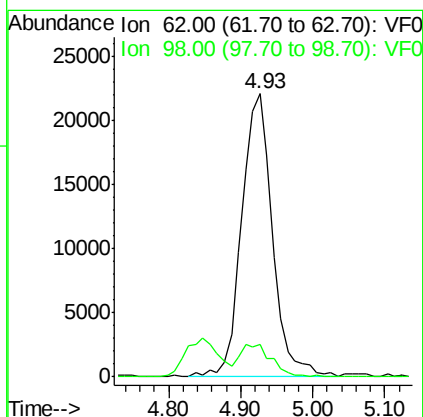
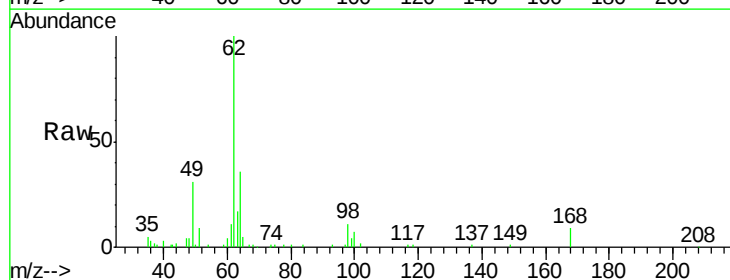
Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion:	41	Resp:	21583
Ion	Ratio	Lower	Upper
41	100		
39	65.9	45.3	67.9
67	65.4	49.3	73.9
52	45.2	32.6	49.0



#42
1,2-Dichloroethane
Concen: 24.639 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion:	62	Resp:	66309
Ion	Ratio	Lower	Upper
62	100		
98	11.5	0.0	26.0





#43

Isopropyl Acetate

Concen: 20.991 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

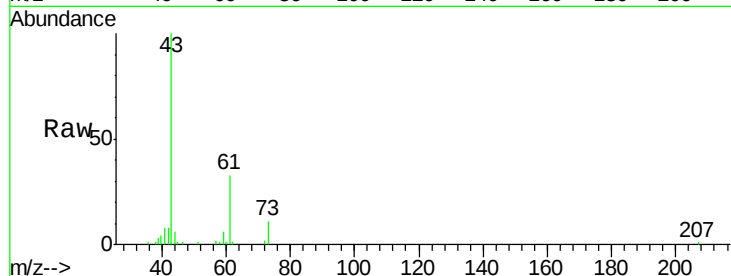
Tot Ion: 43 Resp: 49639

Ion Ratio Lower Upper

43 100

61 33.1 25.8 38.6

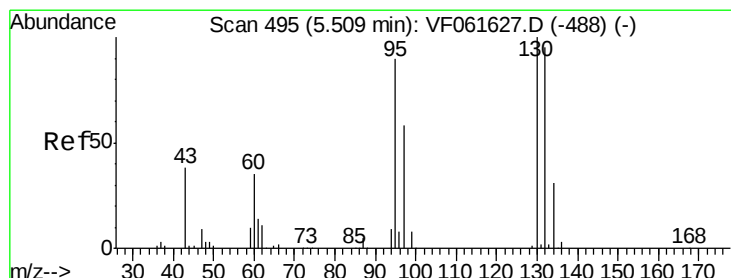
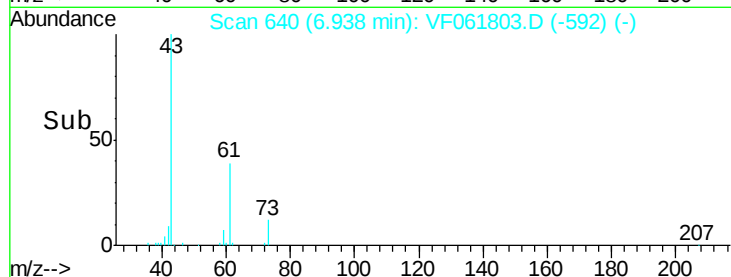
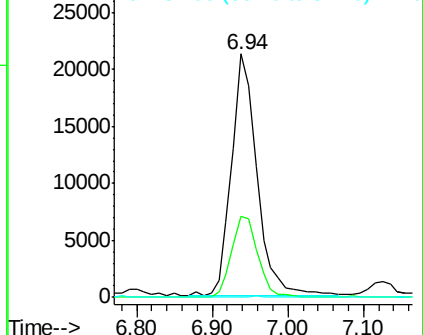
87 0.0 0.4 0.6#



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: 22.778 ug/l

RT: 5.48 min Scan# 492

Delta R.T. -0.03 min

Lab File: VF061803.D

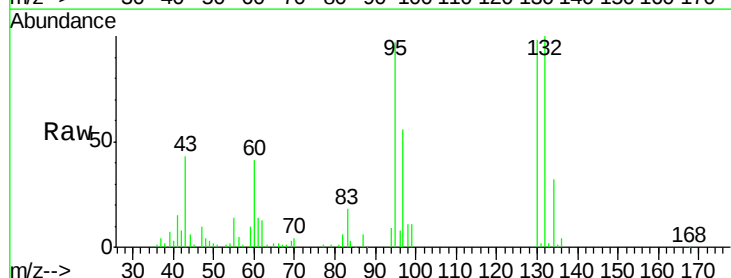
Acq: 1 Mar 2019 15:27

Tgt Ion:130 Resp: 82872

Ion Ratio Lower Upper

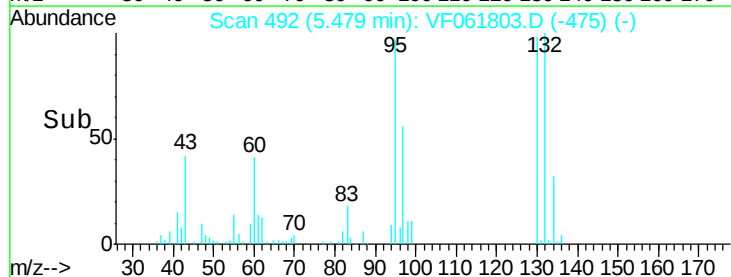
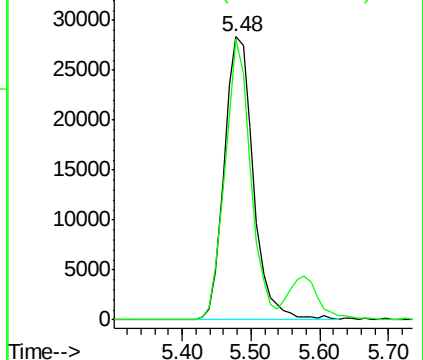
130 100

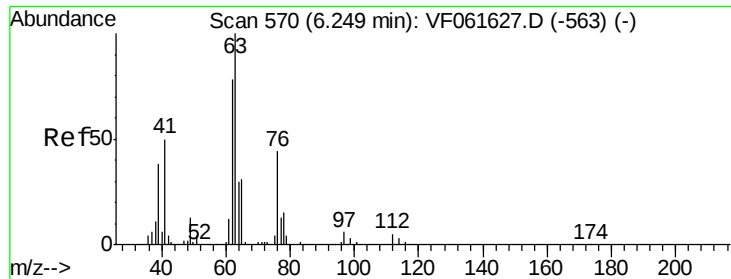
95 99.2 0.0 179.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 22.552 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

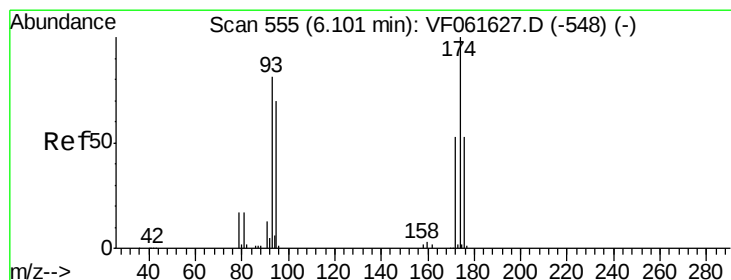
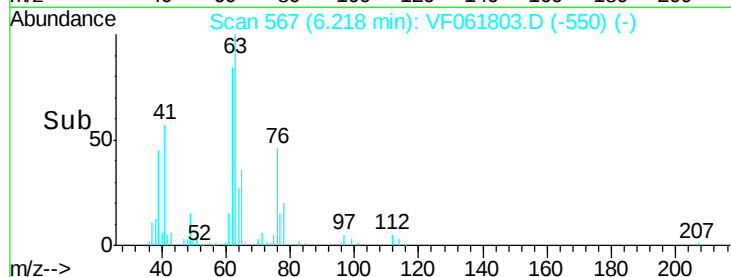
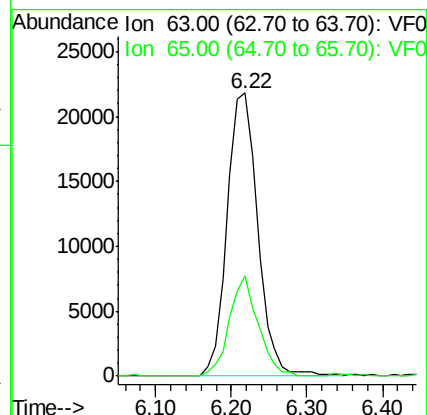
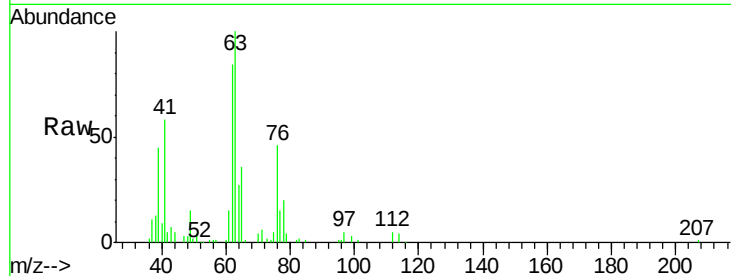
VF0301SBS01

Tot Ion: 63 Resp: 61331

Ion Ratio Lower Upper

63 100

65 35.6 24.9 37.3



#46

Dibromomethane

Concen: 23.022 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

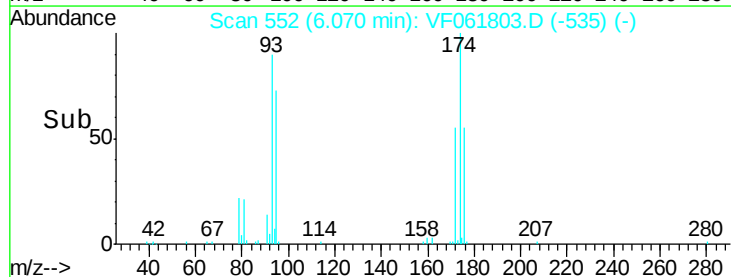
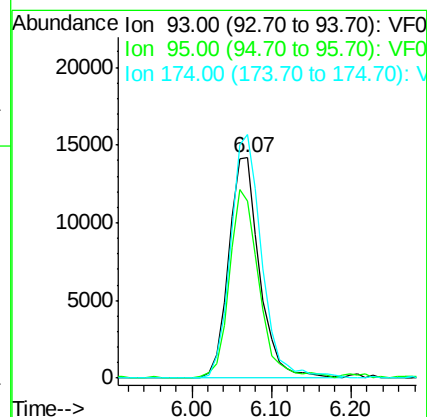
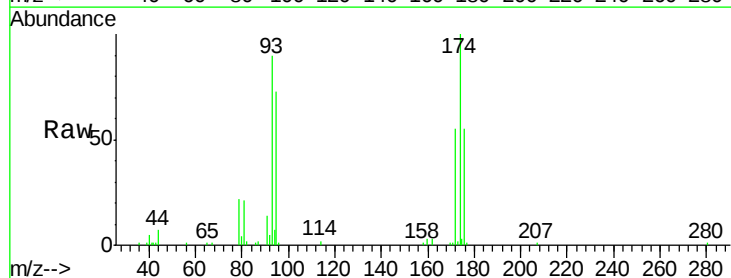
Tgt Ion: 93 Resp: 38548

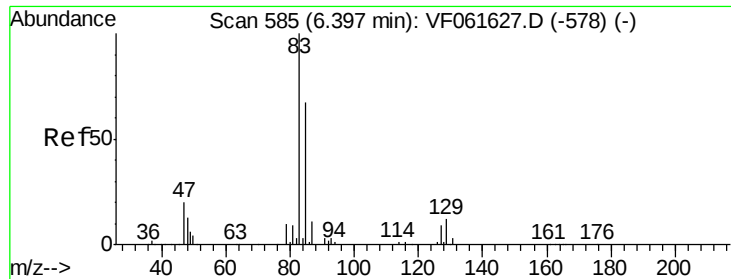
Ion Ratio Lower Upper

93 100

95 80.4 69.0 103.6

174 110.7 99.3 148.9





#47

Bromodichloromethane

Concen: 24.252 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

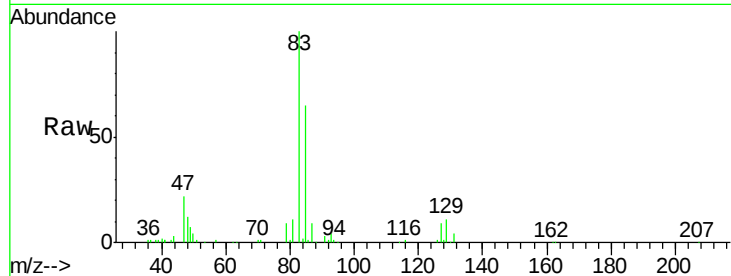
Tot Ion: 83 Resp: 88924

Ion Ratio Lower Upper

83 100

85 64.9 53.4 80.2

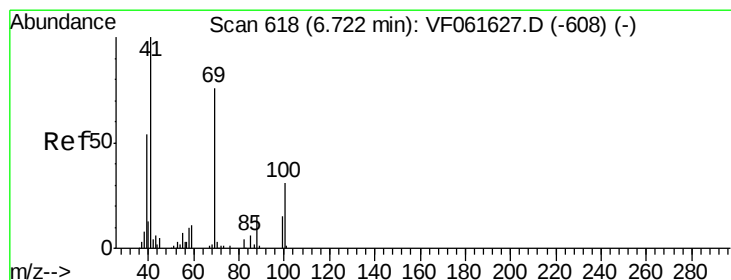
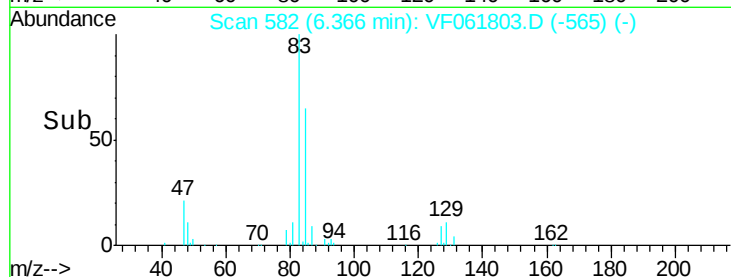
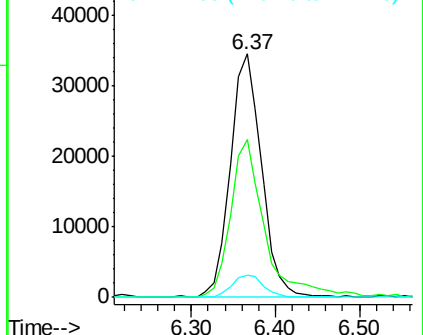
127 8.9 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 21.180 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

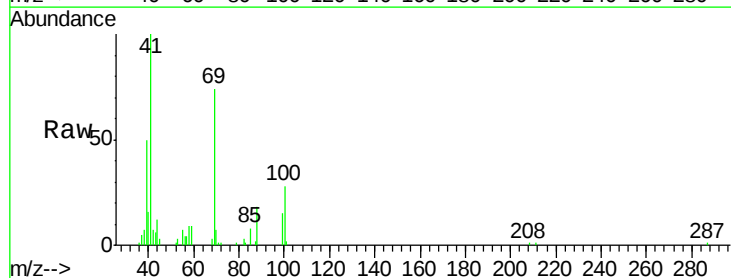
Tgt Ion: 41 Resp: 30142

Ion Ratio Lower Upper

41 100

69 74.0 60.4 90.6

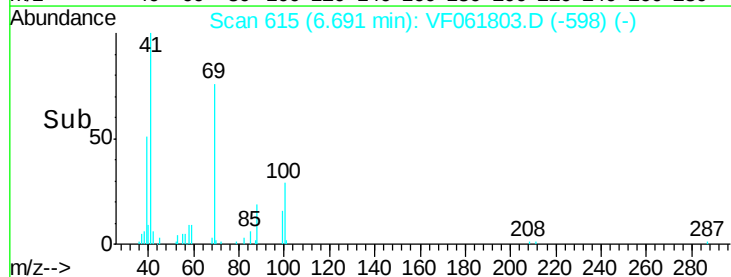
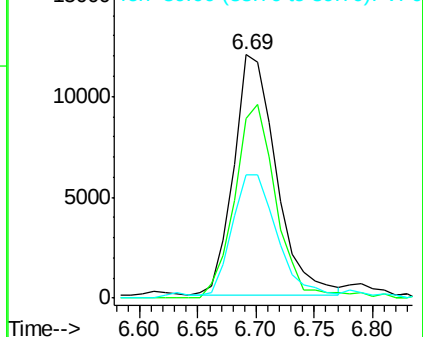
39 50.5 43.7 65.5

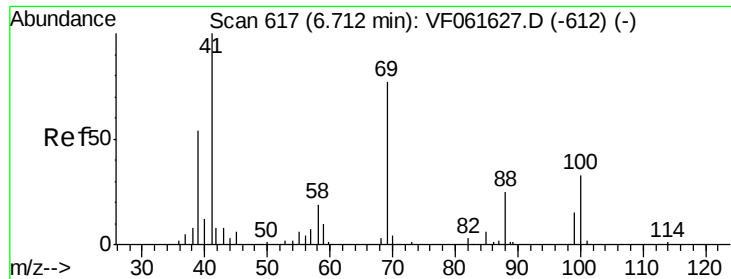


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

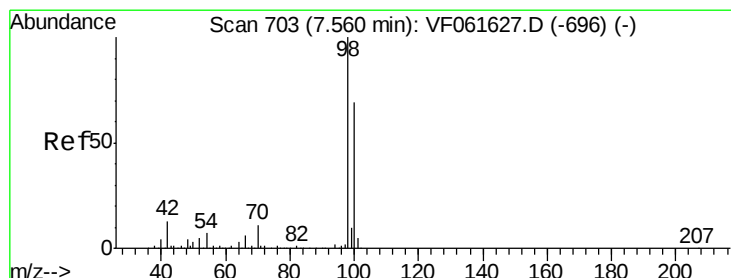
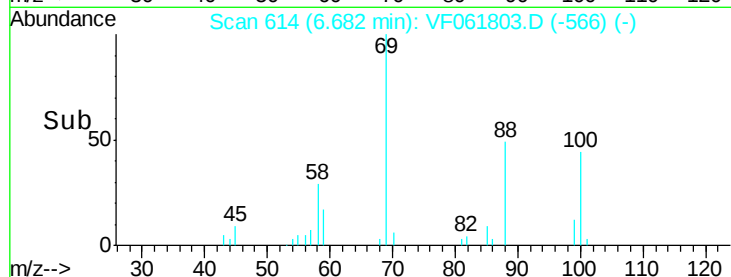
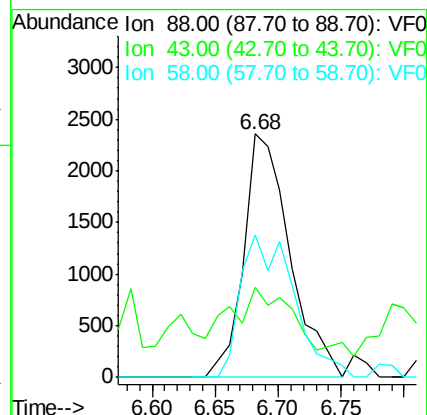
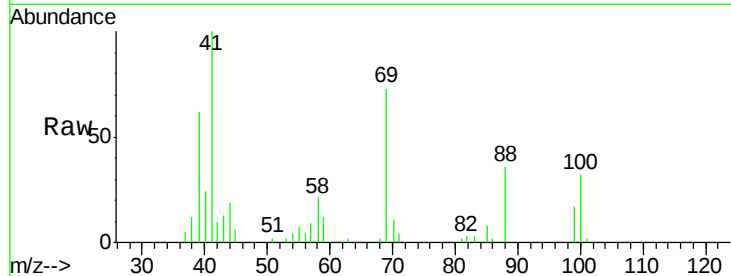




#49
1,4-Dioxane
Concen: 448.049 ug/l
RT: 6.68 min Scan# 614
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

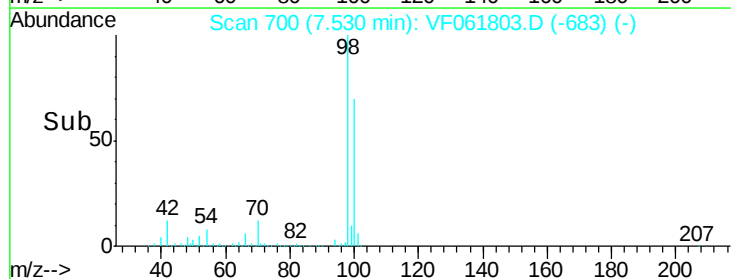
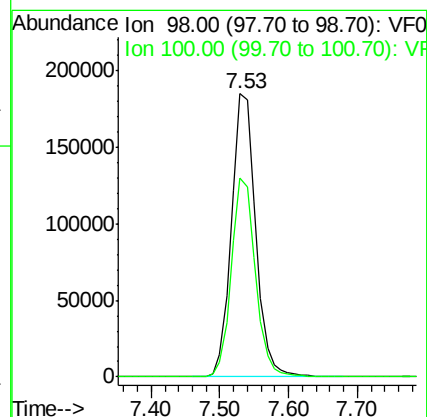
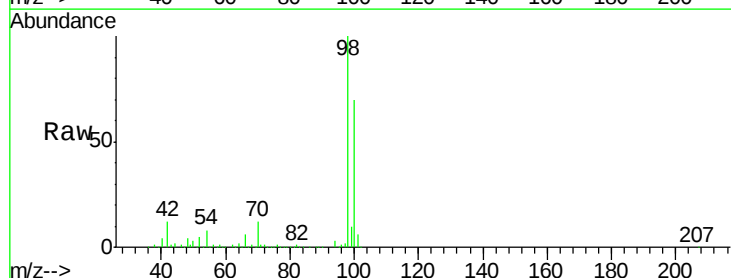
Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

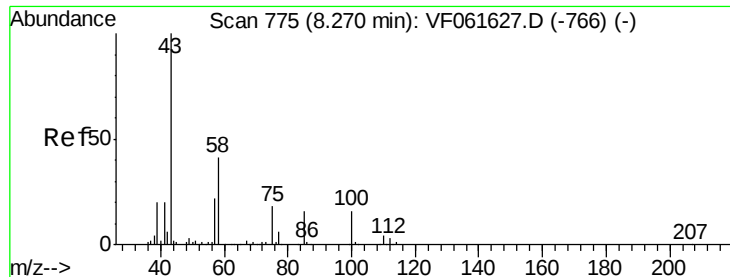
Tot Ion: 88 Resp: 5994
Ion Ratio Lower Upper
88 100
43 36.8 32.3 48.5
58 58.4 59.4 89.2#



#50
Toluene-d8
Concen: 48.763 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 98 Resp: 451991
Ion Ratio Lower Upper
98 100
100 70.0 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 109.144 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

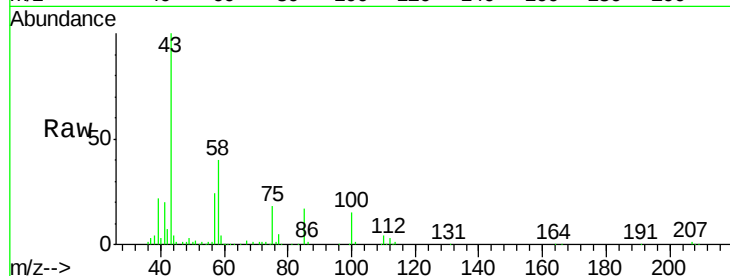
VF0301SBS01

Tot Ion: 43 Resp: 184424

Ion Ratio Lower Upper

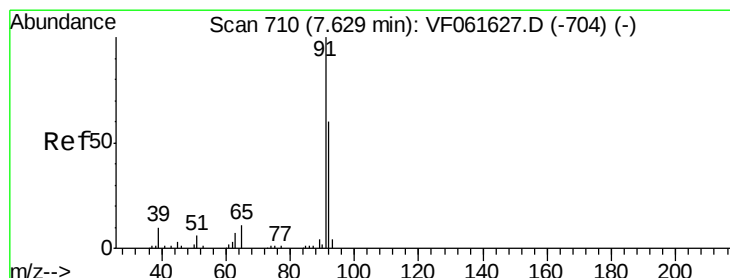
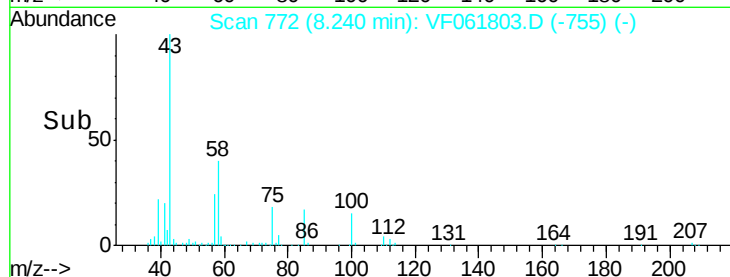
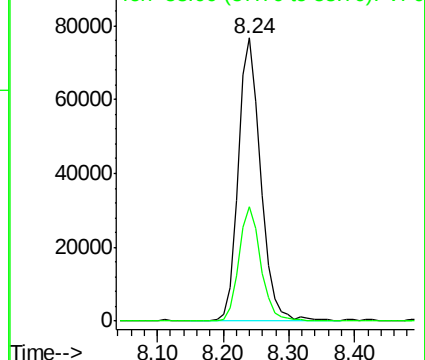
43 100

58 40.3 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 23.728 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061803.D

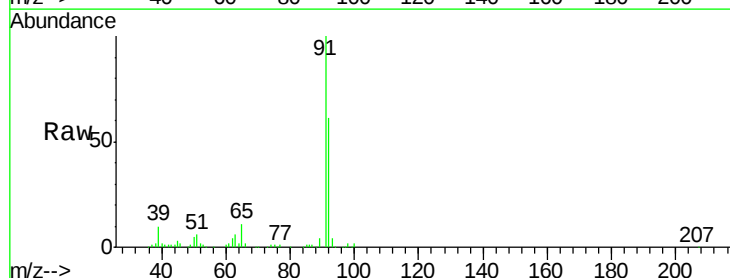
Acq: 1 Mar 2019 15:27

Tgt Ion: 92 Resp: 161901

Ion Ratio Lower Upper

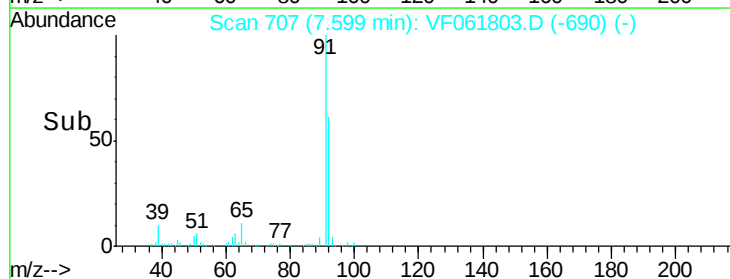
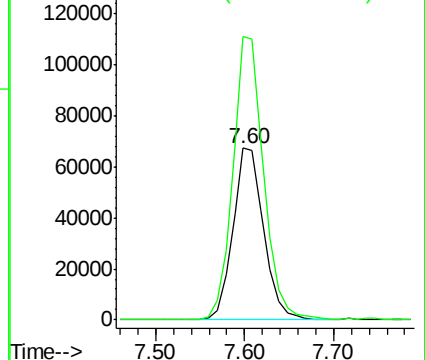
92 100

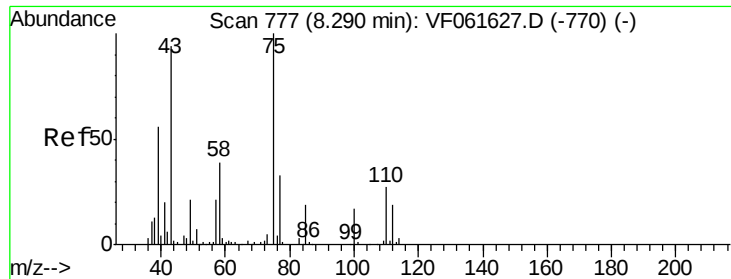
91 164.7 133.9 200.9



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: 22.927 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

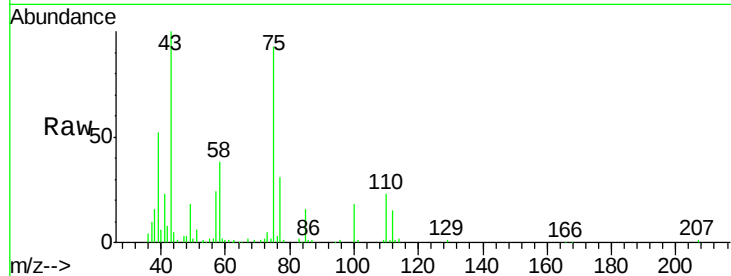
VF0301SBS01

Tot Ion: 75 Resp: 69967

Ion Ratio Lower Upper

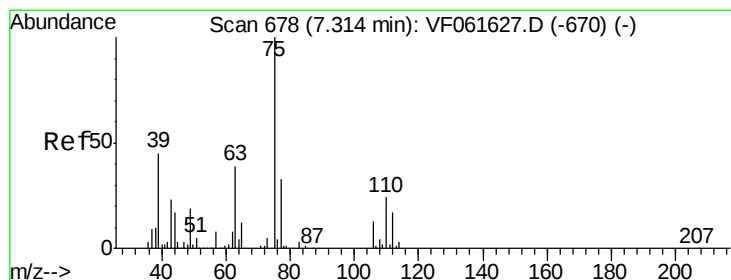
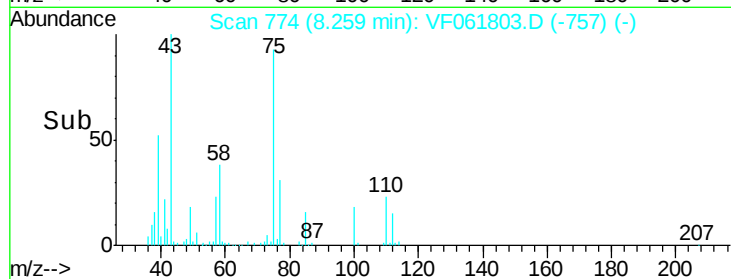
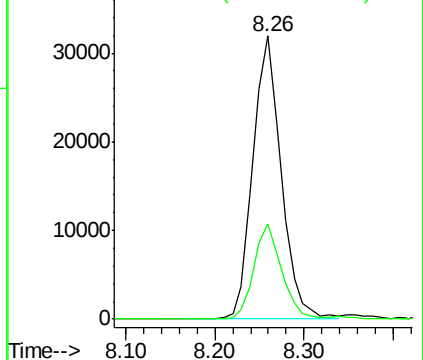
75 100

77 33.5 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 25.074 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

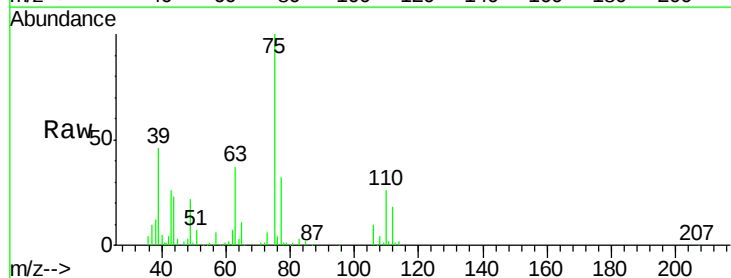
Tgt Ion: 75 Resp: 101920

Ion Ratio Lower Upper

75 100

77 31.6 26.4 39.6

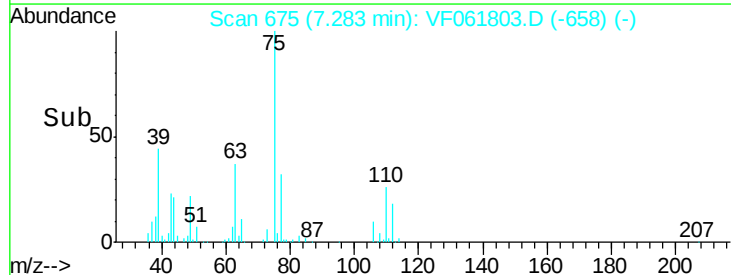
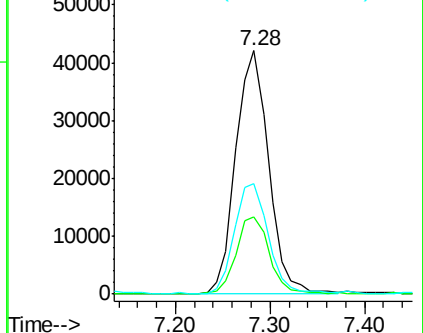
39 45.6 36.0 54.0

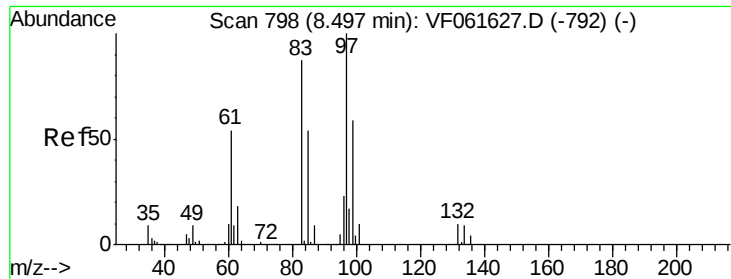


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

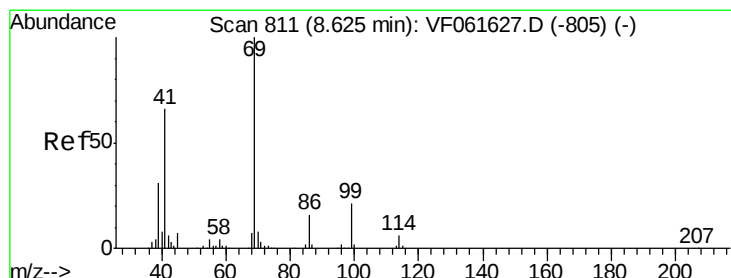
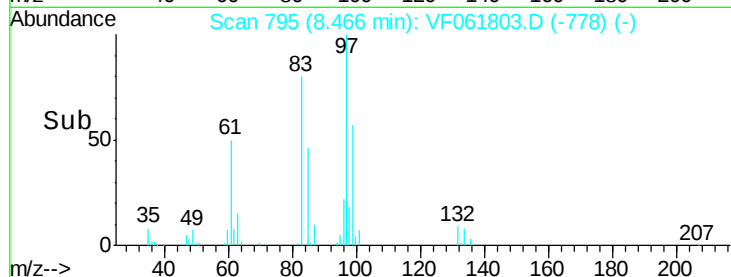
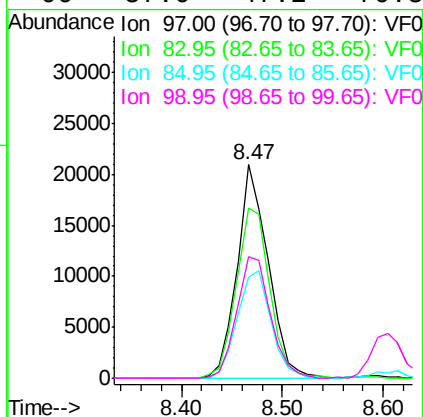
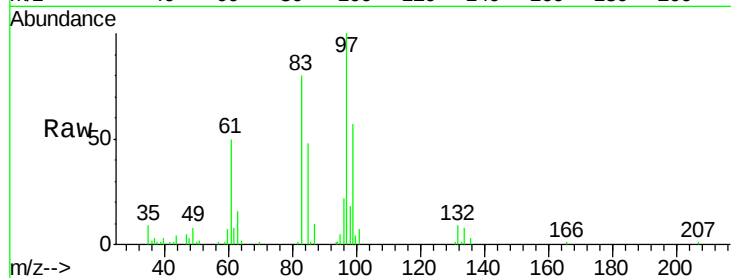




#55
 1,1,2-Trichloroethane
 Concen: 22.366 ug/l
 RT: 8.47 min Scan# 795
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

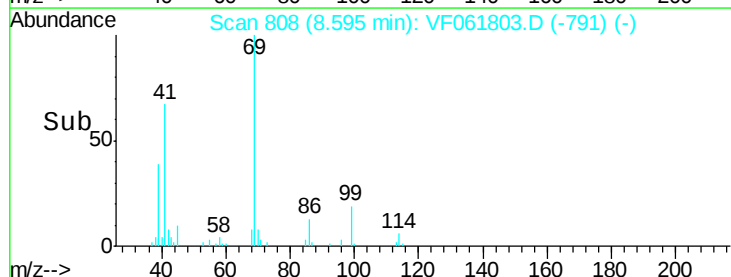
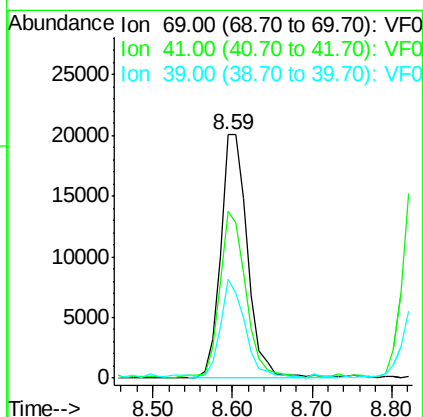
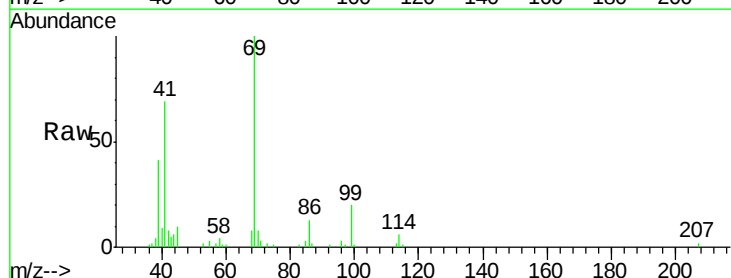
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

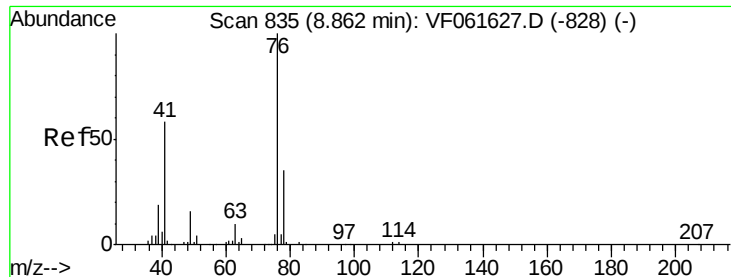
Tot Ion:	97	Resp:	44839
Ion	Ratio	Lower	Upper
97	100		
83	79.9	69.2	103.8
85	47.6	43.0	64.4
99	57.0	47.2	70.8



#56
 Ethyl methacrylate
 Concen: 21.438 ug/l
 RT: 8.59 min Scan# 808
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion:	69	Resp:	47851
Ion	Ratio	Lower	Upper
69	100		
41	68.6	52.9	79.3
39	40.7	24.5	36.7#





#57

1,3-Dichloropropane

Concen: 21.213 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

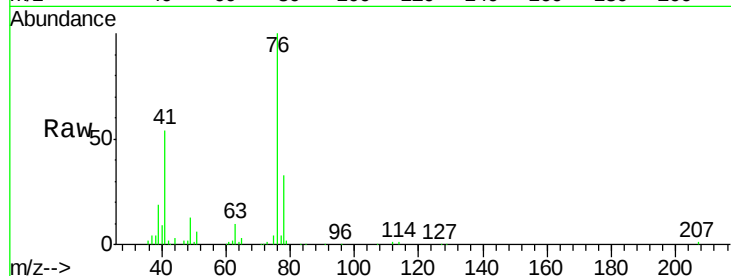
VF0301SBS01

Tot Ion: 76 Resp: 70982

Ion Ratio Lower Upper

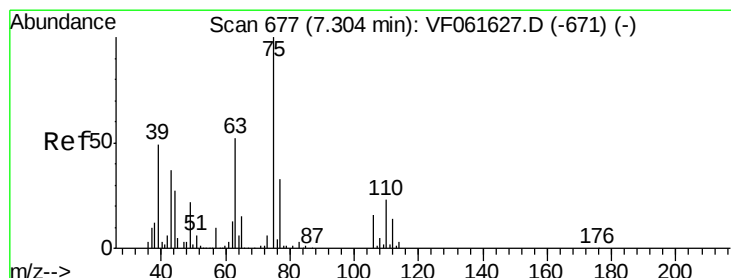
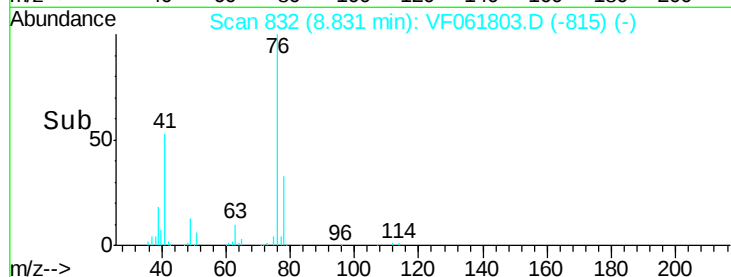
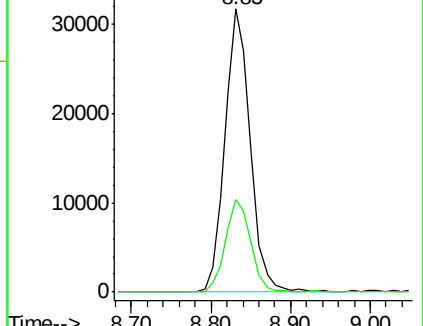
76 100

78 33.0 27.8 41.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 103.279 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061803.D

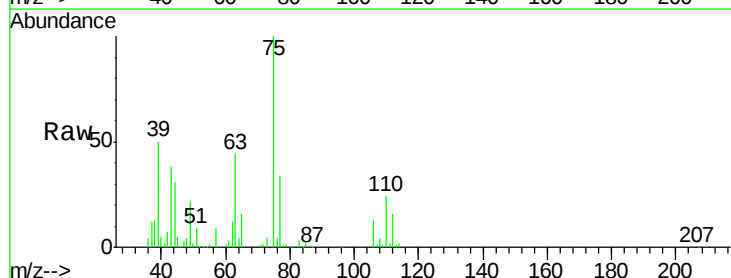
Acq: 1 Mar 2019 15:27

Tgt Ion: 63 Resp: 39773

Ion Ratio Lower Upper

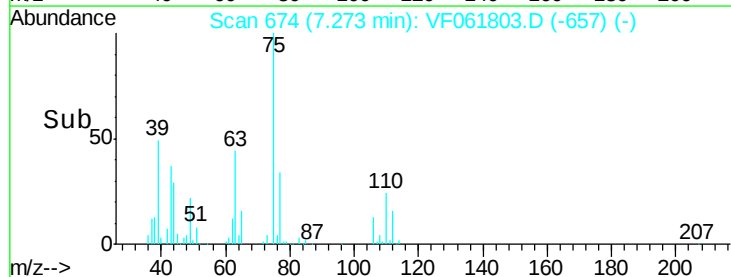
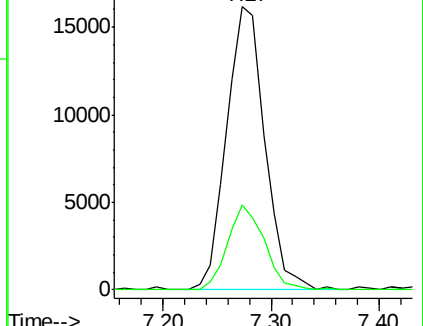
63 100

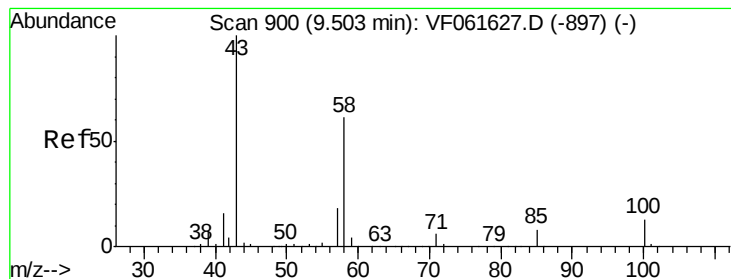
106 29.8 24.6 36.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 115.598 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

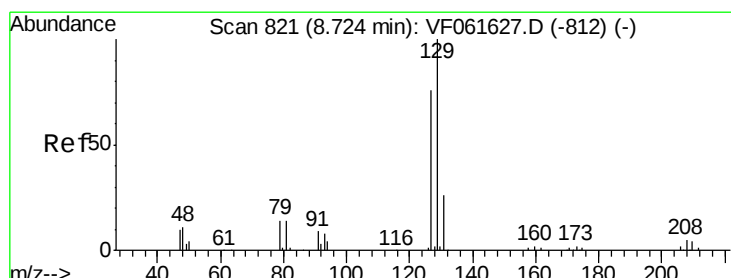
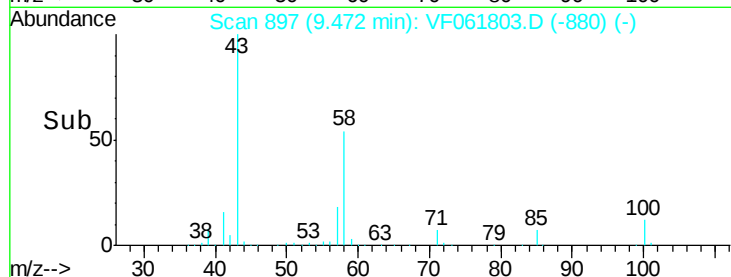
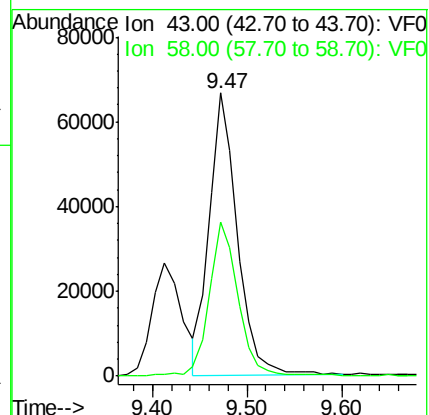
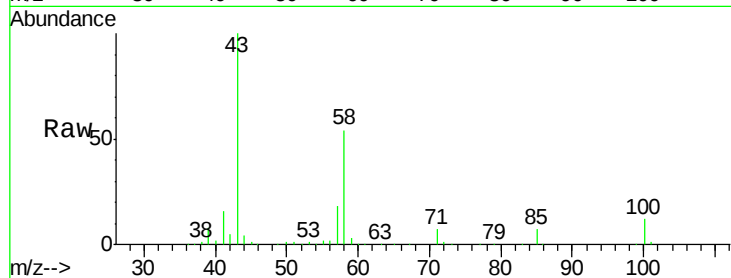
VF0301SBS01

Tot Ion: 43 Resp: 136921

Ion Ratio Lower Upper

43 100

58 54.3 28.5 85.5



#60

Dibromochloromethane

Concen: 22.264 ug/l

RT: 8.69 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061803.D

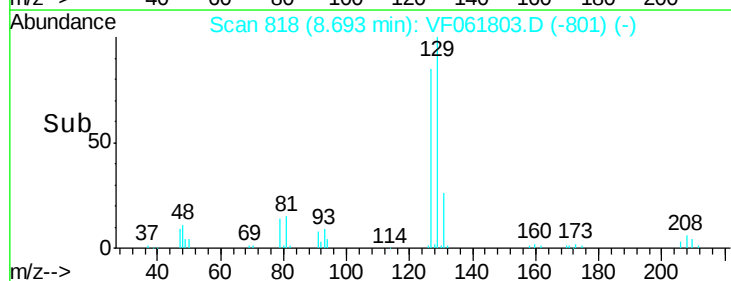
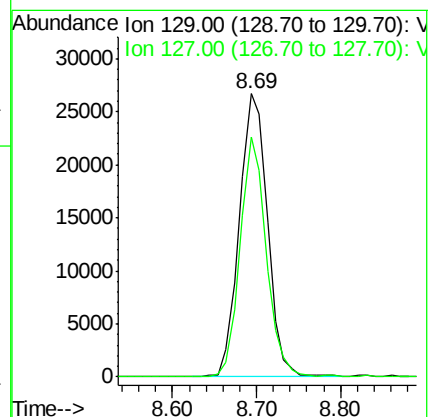
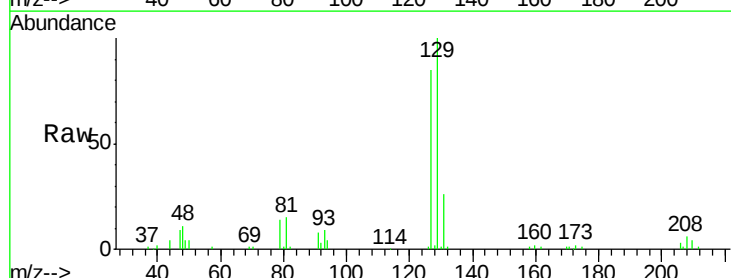
Acq: 1 Mar 2019 15:27

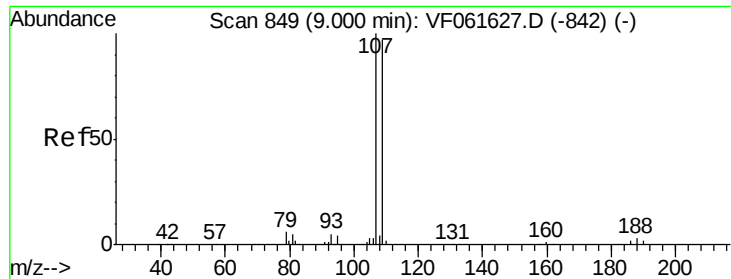
Tgt Ion: 129 Resp: 62124

Ion Ratio Lower Upper

129 100

127 84.8 37.8 113.4





#61

1,2-Dibromoethane

Concen: 21.689 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

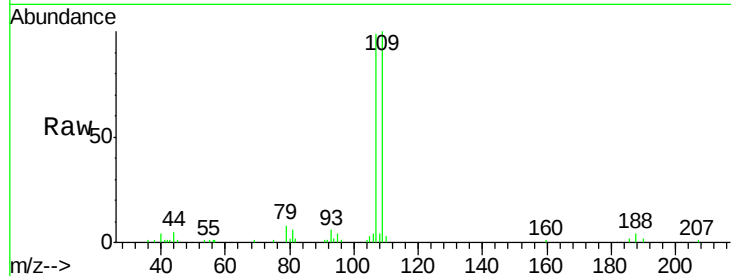
VF0301SBS01

Tot Ion:107 Resp: 47162

Ion Ratio Lower Upper

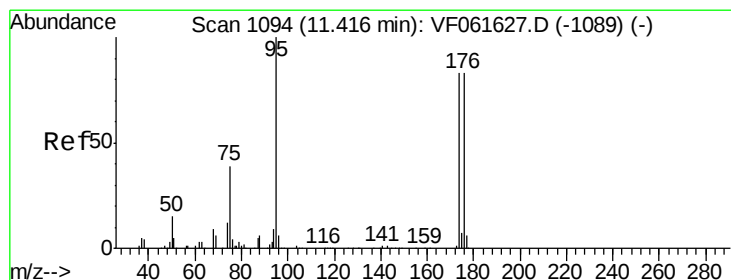
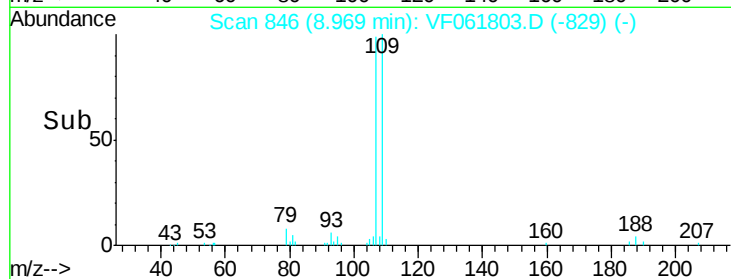
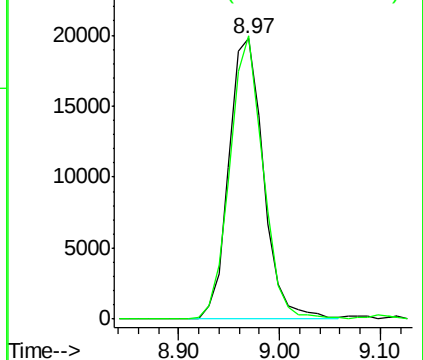
107 100

109 100.9 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 49.373 ug/l

RT: 11.39 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

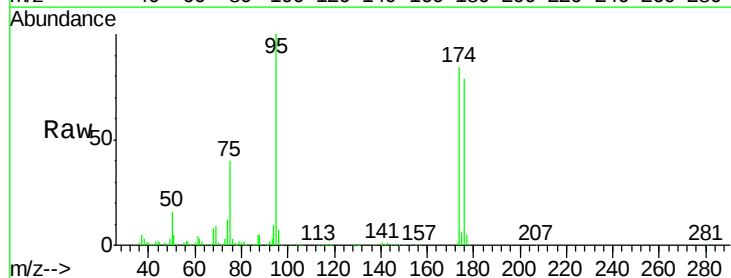
Tgt Ion: 95 Resp: 185174

Ion Ratio Lower Upper

95 100

174 83.8 0.0 165.8

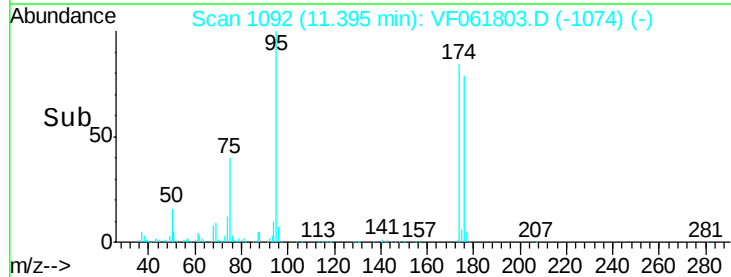
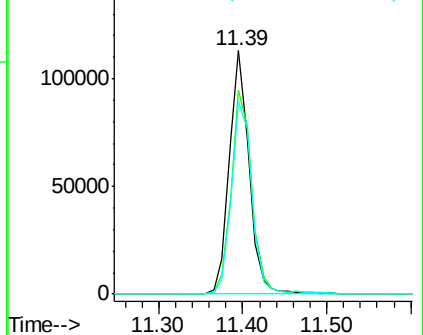
176 79.2 0.0 167.0

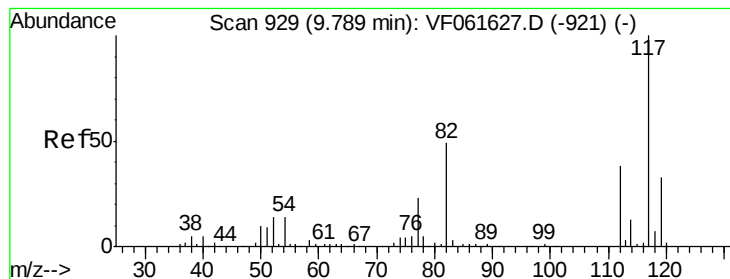


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

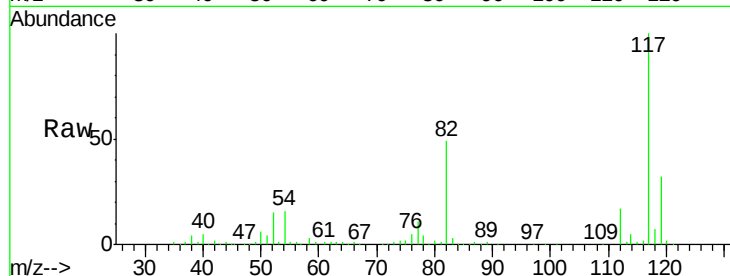
Tot Ion:117 Resp: 360372

Ion Ratio Lower Upper

117 100

82 48.8 39.3 58.9

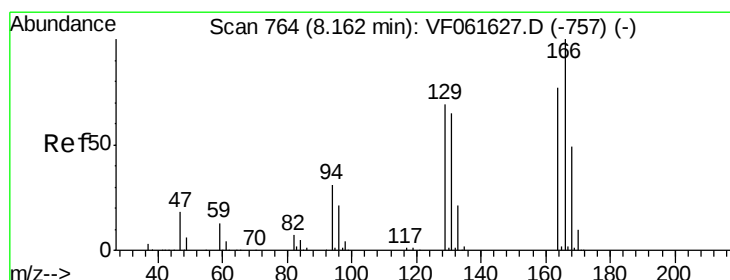
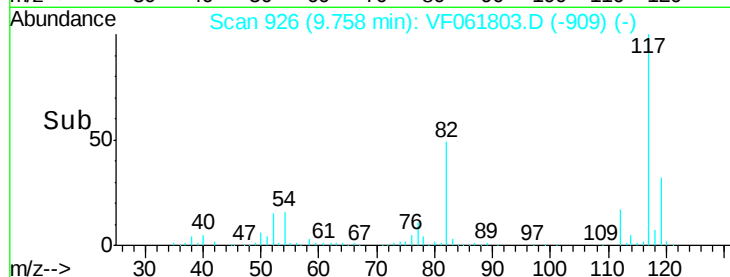
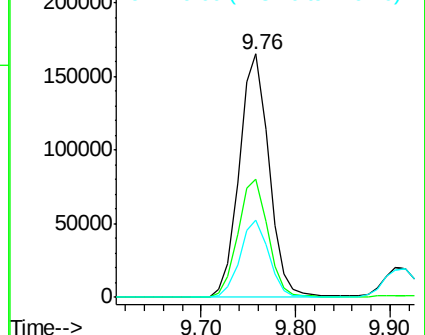
119 31.7 26.6 40.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 24.156 ug/l

RT: 8.13 min Scan# 761

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:164 Resp: 71154

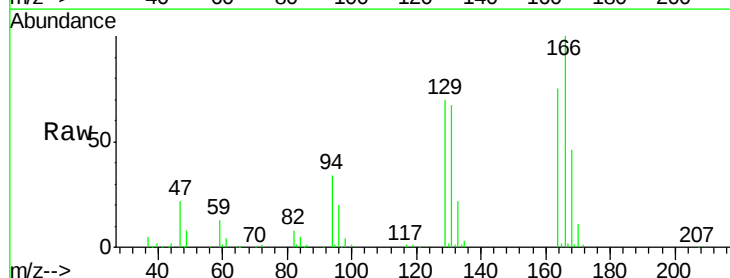
Ion Ratio Lower Upper

164 100

166 133.3 103.9 155.9

129 93.2 71.3 106.9

131 89.4 67.1 100.7

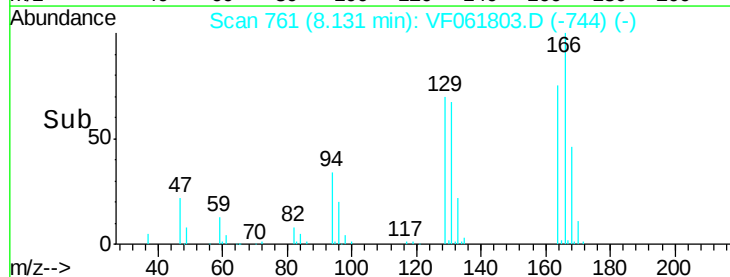
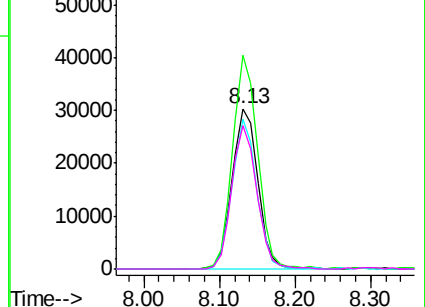


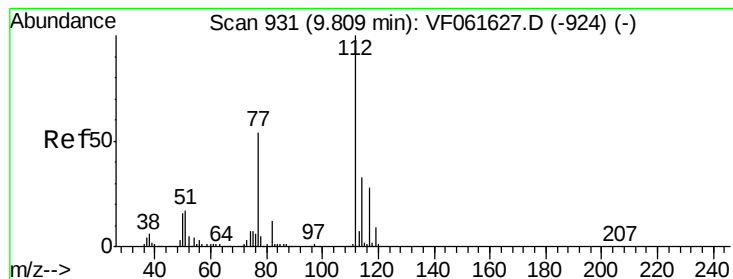
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 23.467 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

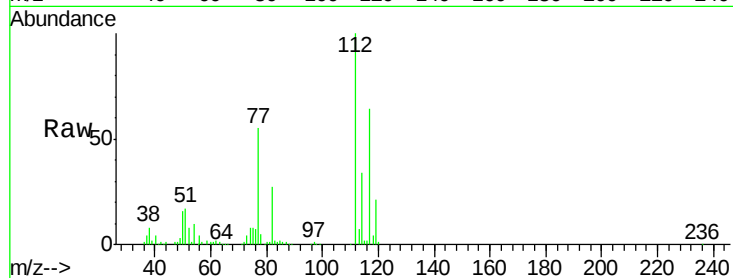
VF0301SBS01

Tot Ion:112 Resp: 171608

Ion Ratio Lower Upper

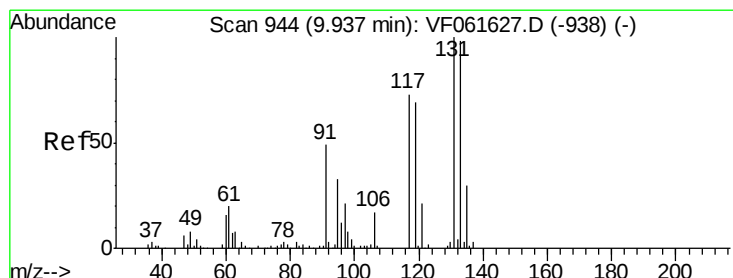
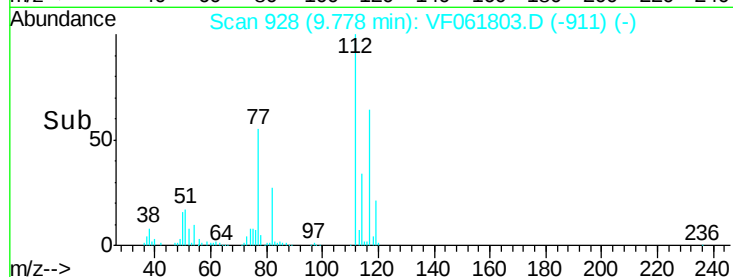
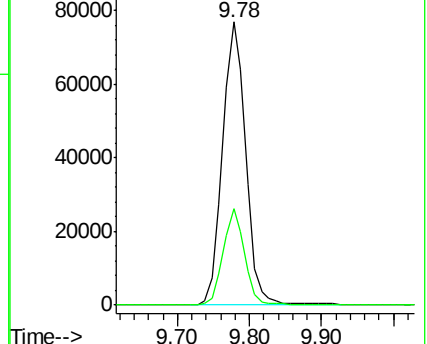
112 100

114 33.9 26.2 39.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.769 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

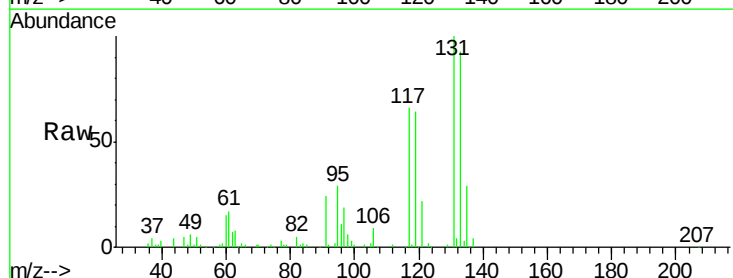
Tgt Ion:131 Resp: 65244

Ion Ratio Lower Upper

131 100

133 92.9 48.9 146.6

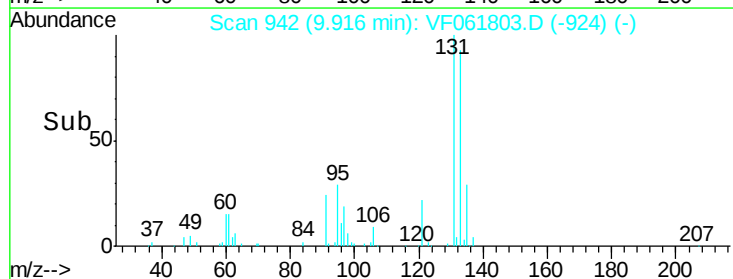
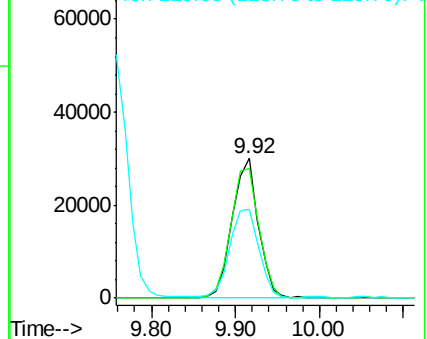
119 63.7 34.8 104.3

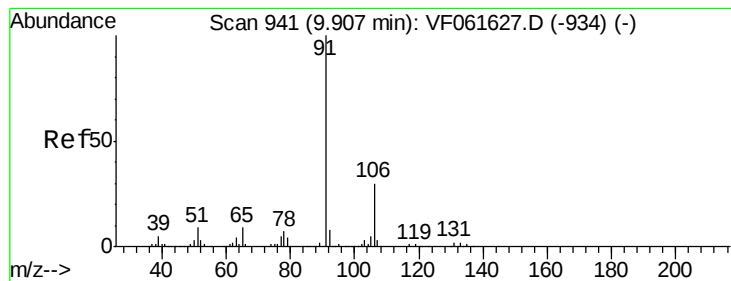


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 22.767 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

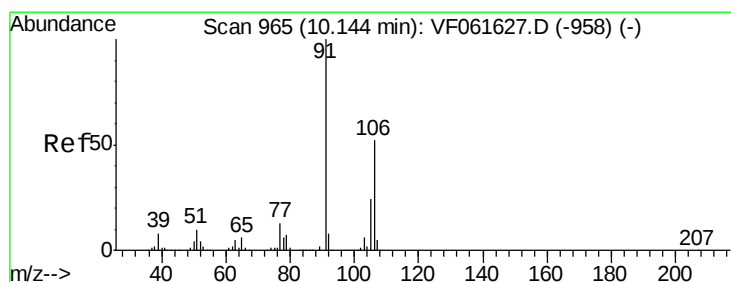
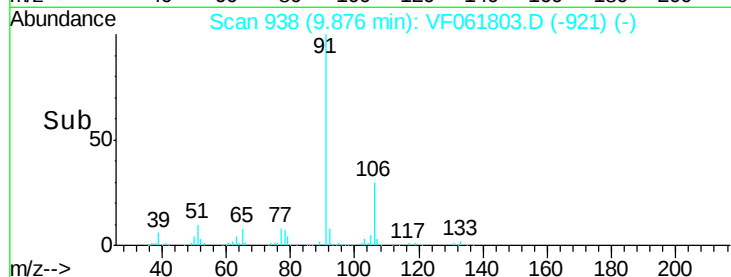
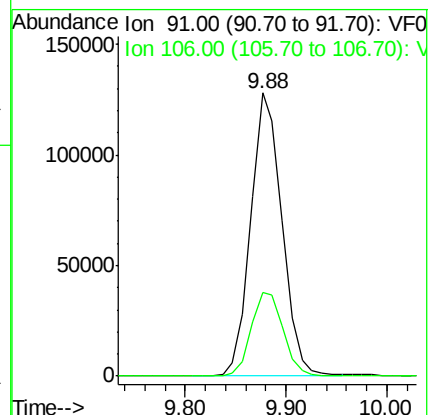
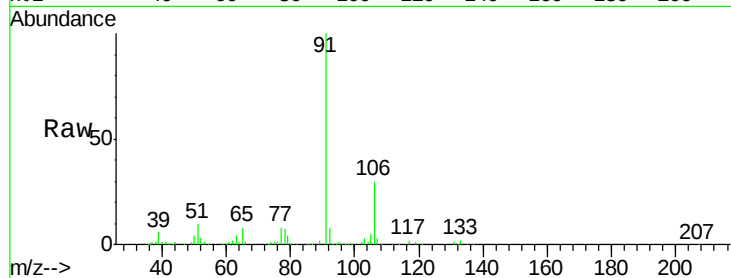
VF0301SBS01

Tot Ion: 91 Resp: 276875

Ion Ratio Lower Upper

91 100

106 29.7 24.1 36.1



#68

m/p-Xylenes

Concen: 48.185 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF061803.D

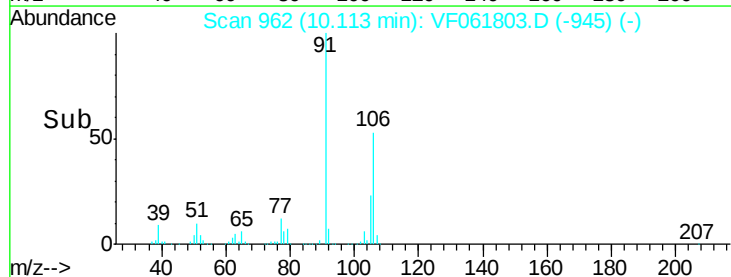
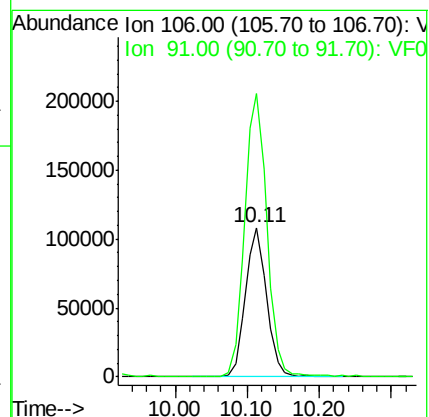
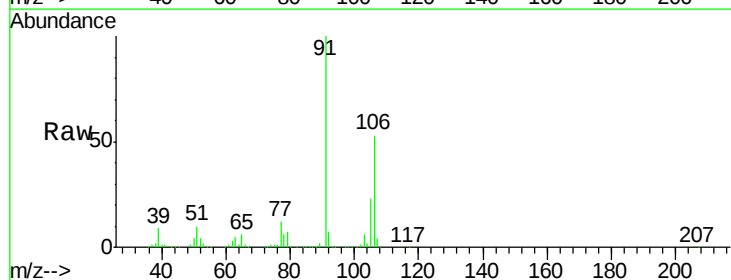
Acq: 1 Mar 2019 15:27

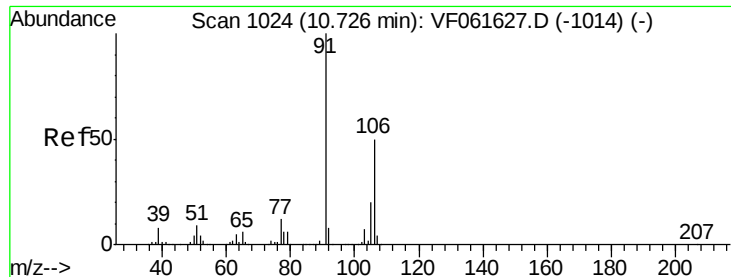
Tgt Ion: 106 Resp: 224262

Ion Ratio Lower Upper

106 100

91 189.9 153.0 229.6

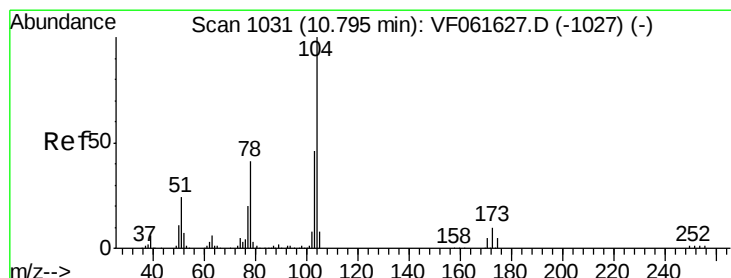
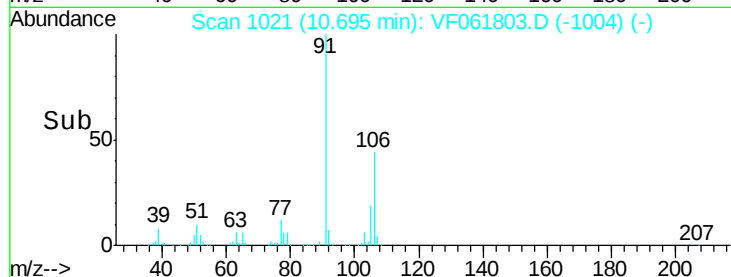
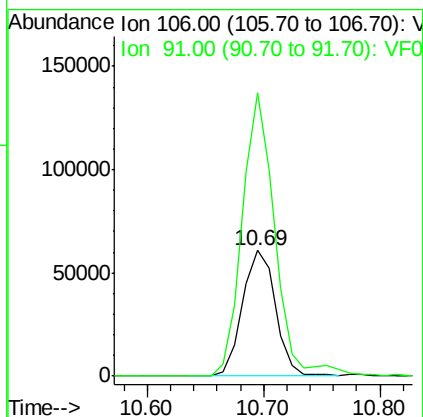
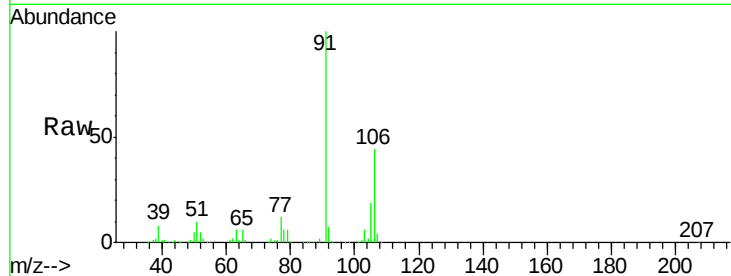




#69
o-Xylene
Concen: 24.155 ug/l
RT: 10.69 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

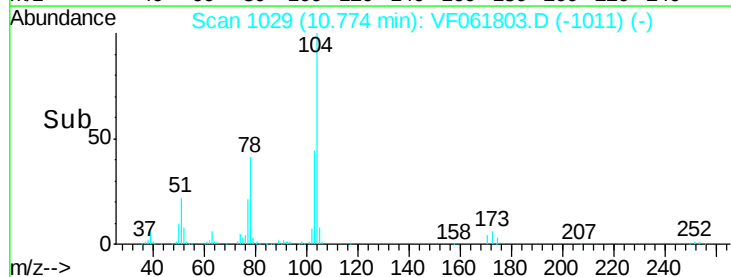
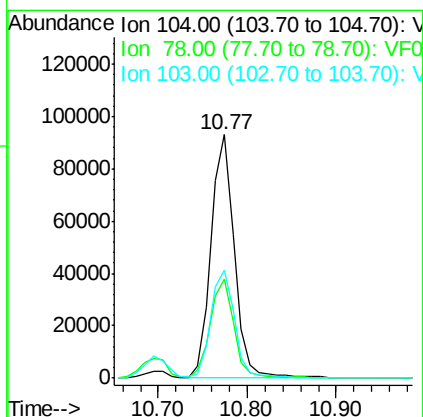
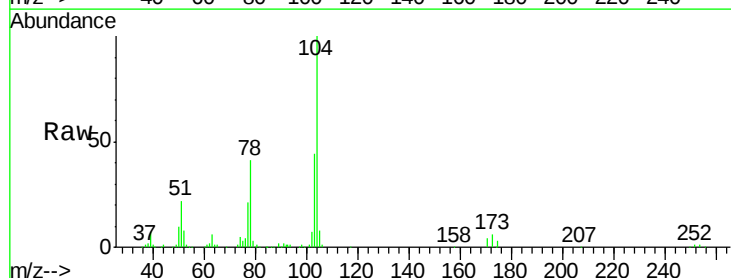
Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

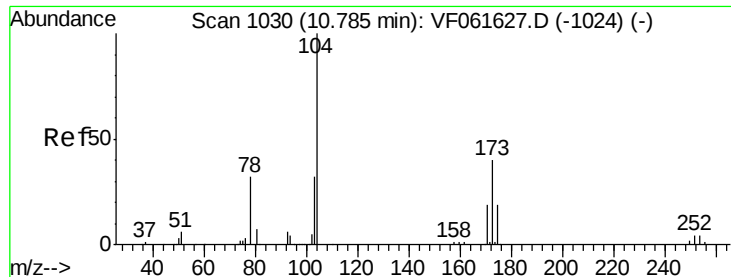
Tot Ion:106 Resp: 119961
Ion Ratio Lower Upper
106 100
91 225.6 100.1 300.1



#70
Styrene
Concen: 23.999 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion:104 Resp: 168611
Ion Ratio Lower Upper
104 100
78 40.6 33.2 49.8
103 44.5 37.2 55.8





#71

Bromoform

Concen: 21.601 ug/l

RT: 10.75 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

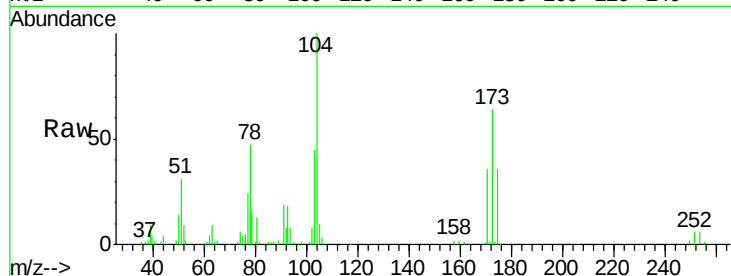
Tot Ion:173 Resp: 33611

Ion Ratio Lower Upper

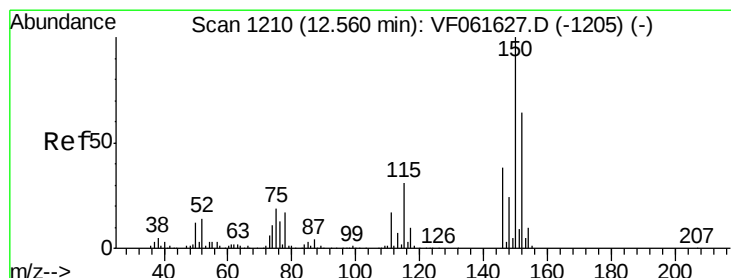
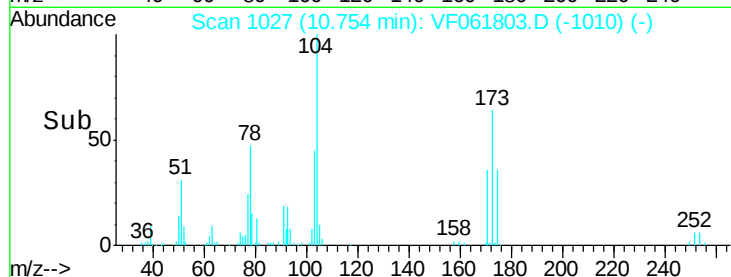
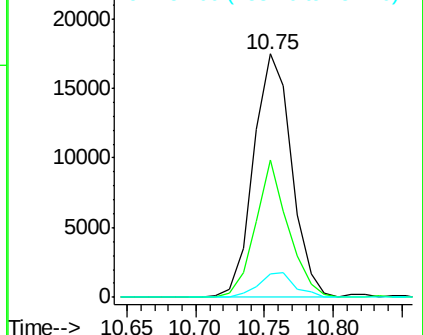
173 100

175 56.3 24.0 72.0

254 9.5 8.2 12.2



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

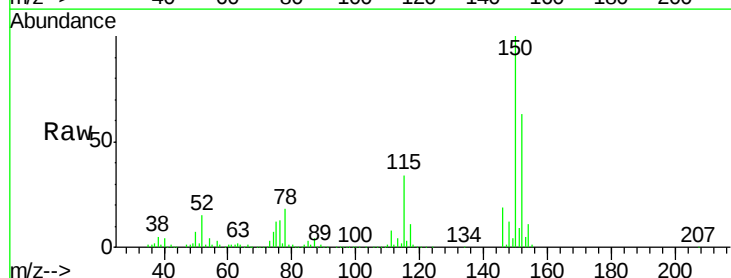
Tgt Ion:152 Resp: 200340

Ion Ratio Lower Upper

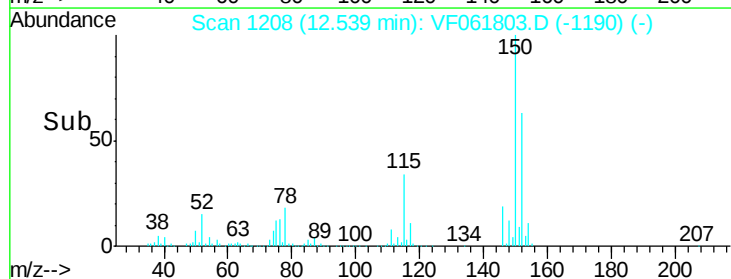
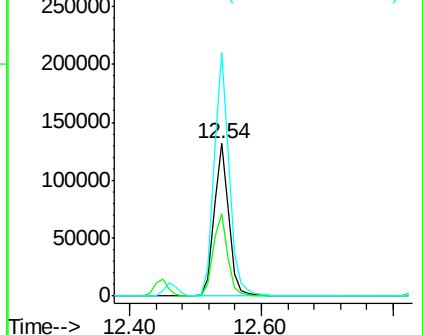
152 100

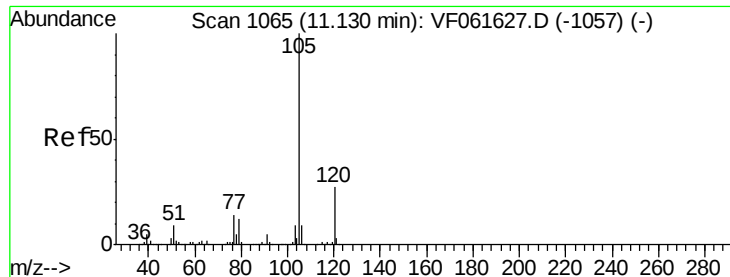
115 53.7 24.3 72.8

150 159.6 0.0 312.0



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





#73

Isopropylbenzene

Concen: 23.795 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

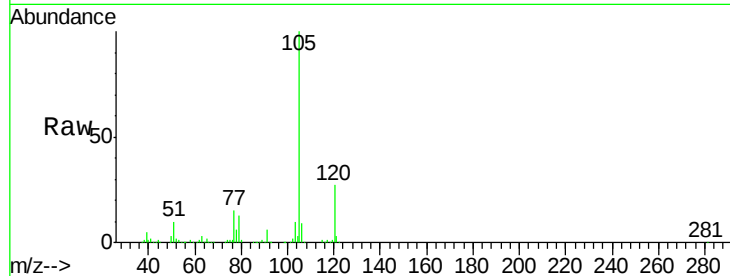
VF0301SBS01

Tot Ion:105 Resp: 339412

Ion Ratio Lower Upper

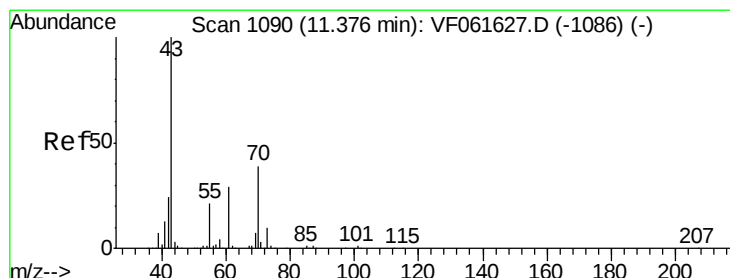
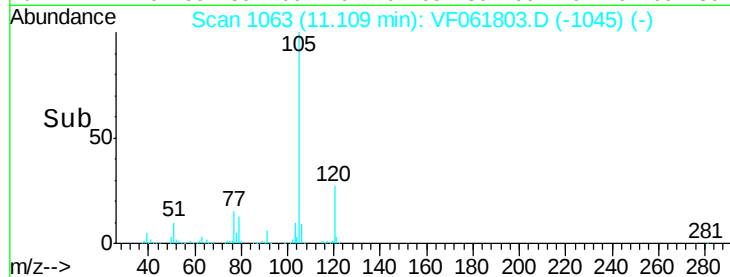
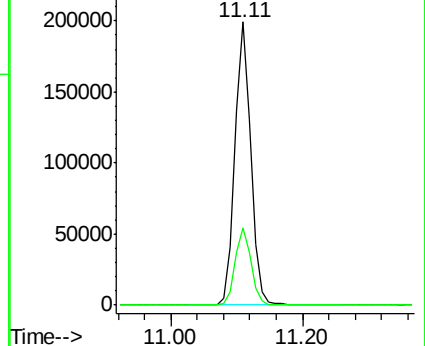
105 100

120 27.1 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.829 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion: 43 Resp: 81583

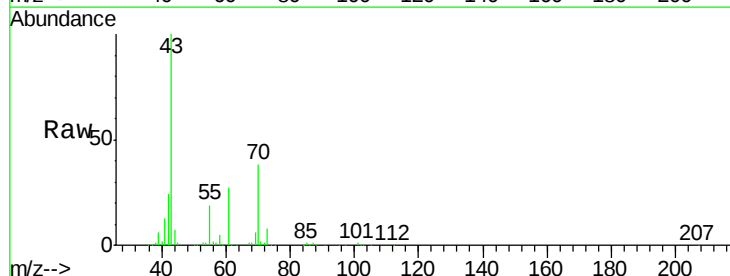
Ion Ratio Lower Upper

43 100

70 38.0 31.5 47.3

55 19.1 16.7 25.1

61 27.3 23.0 34.6

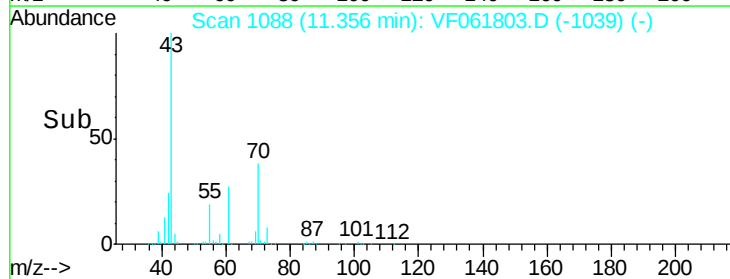
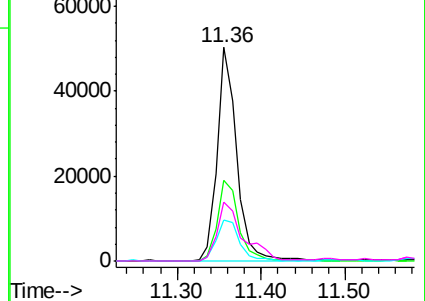


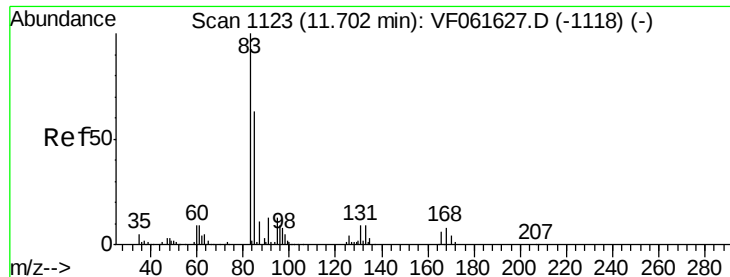
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.909 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

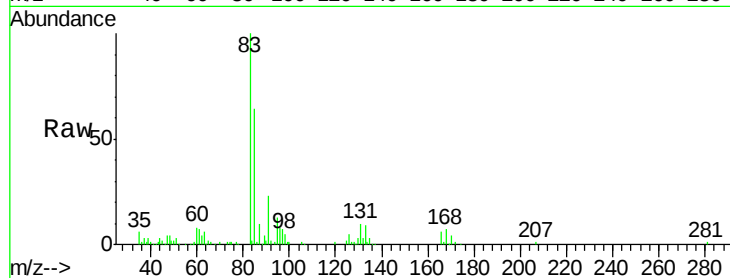
Tot Ion: 83 Resp: 55987

Ion Ratio Lower Upper

83 100

131 9.7 4.4 13.2

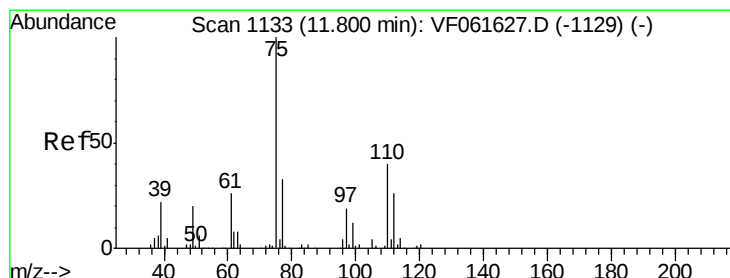
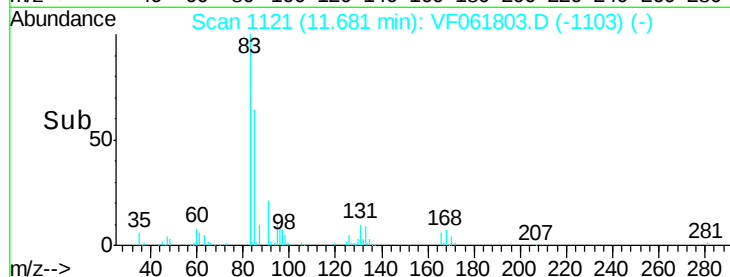
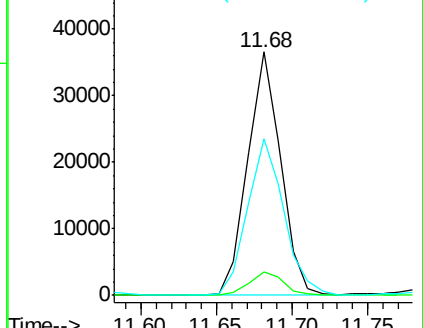
85 64.5 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 22.423 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061803.D

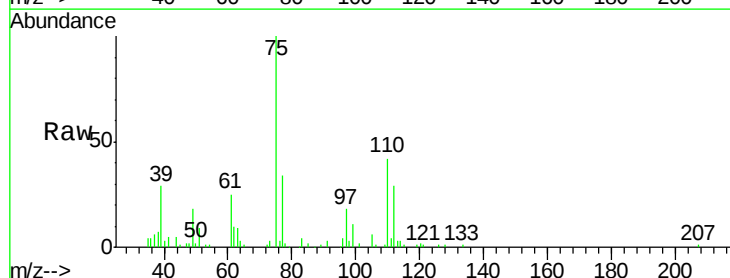
Acq: 1 Mar 2019 15:27

Tgt Ion: 75 Resp: 38957

Ion Ratio Lower Upper

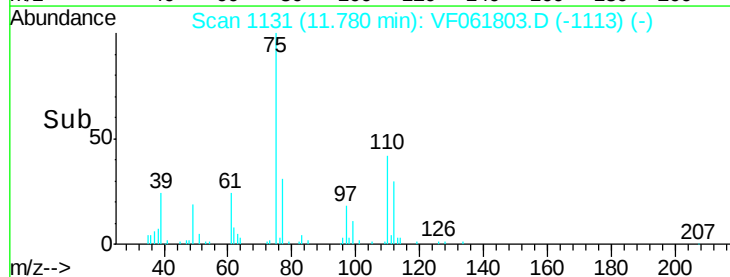
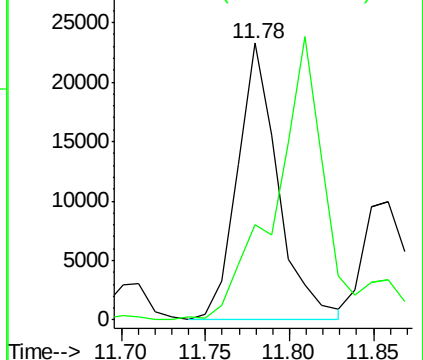
75 100

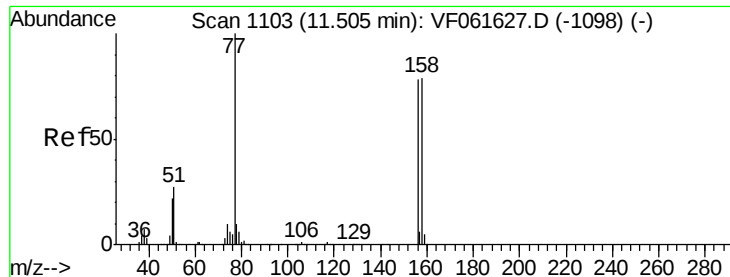
77 34.5 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

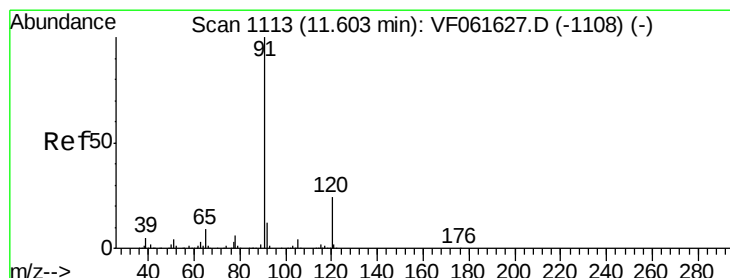
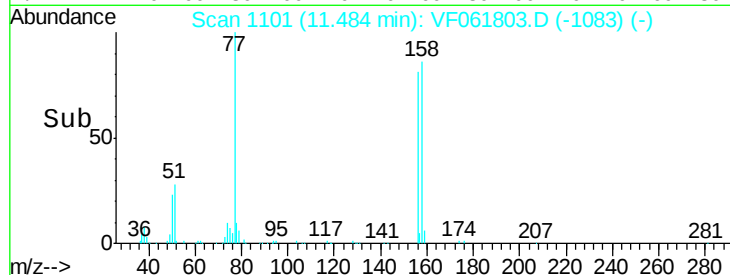
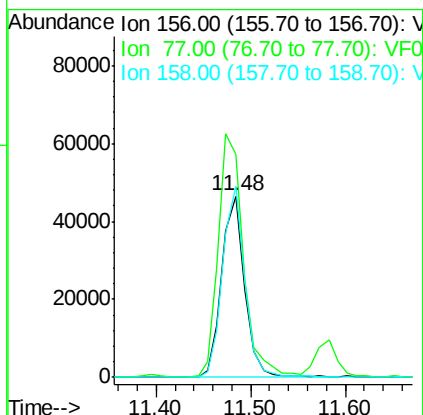
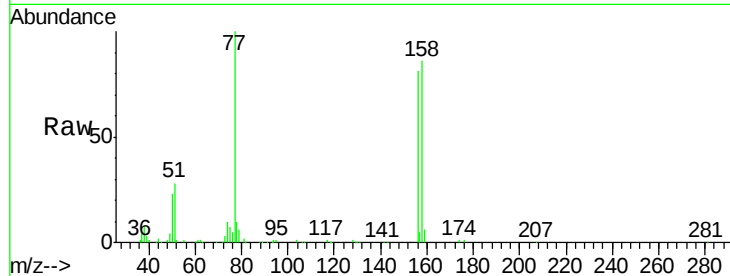




#77
Bromobenzene
Concen: 22.319 ug/l
RT: 11.48 min Scan# 1101
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

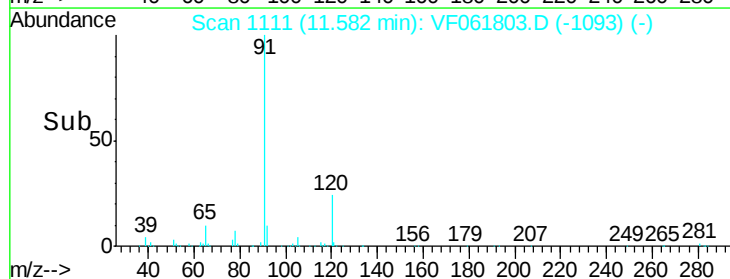
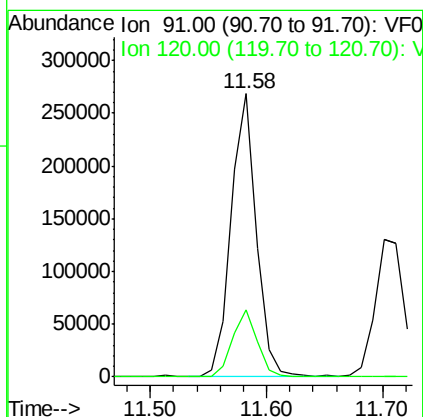
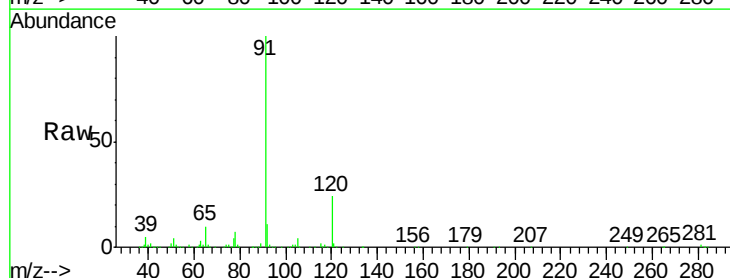
Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

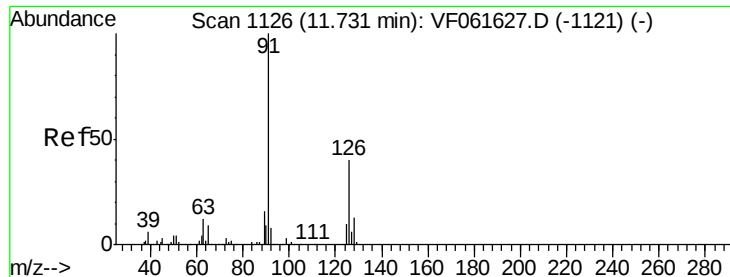
Tot Ion:156 Resp: 78647
Ion Ratio Lower Upper
156 100
77 123.2 64.3 192.7
158 105.7 50.9 152.7



#78
n-propylbenzene
Concen: 24.670 ug/l
RT: 11.58 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 91 Resp: 403802
Ion Ratio Lower Upper
91 100
120 23.7 12.1 36.3

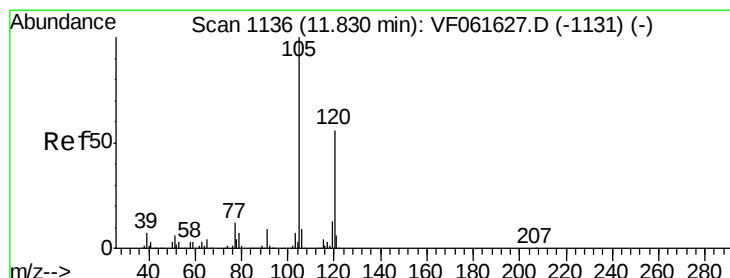
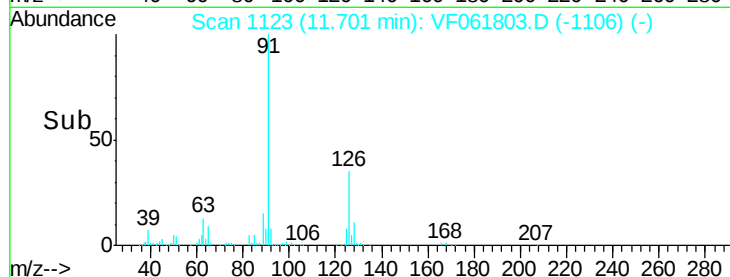
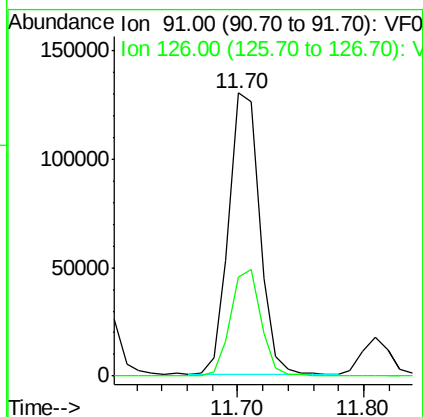
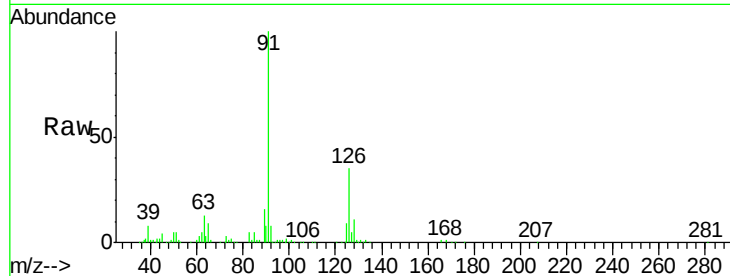




#79
 2-Chlorotoluene
 Concen: 24.066 ug/l
 RT: 11.70 min Scan# 1123
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

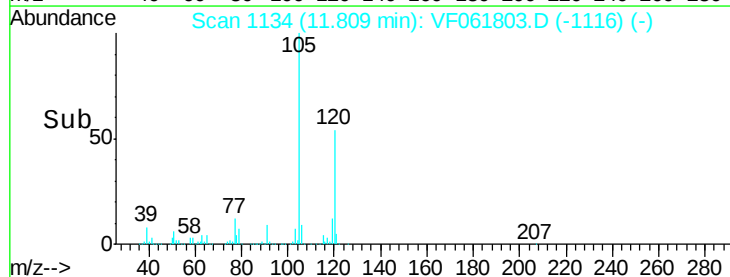
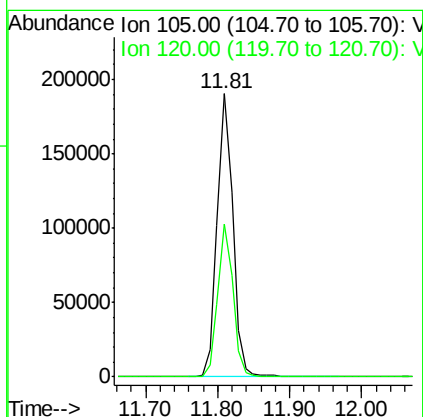
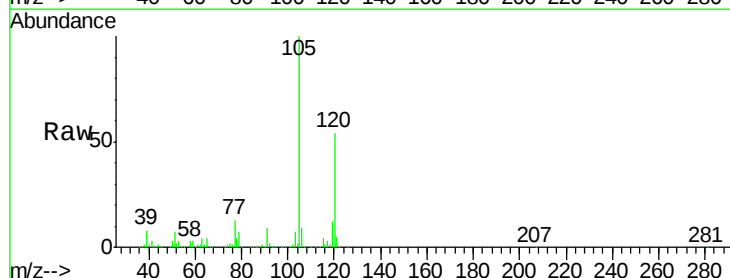
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

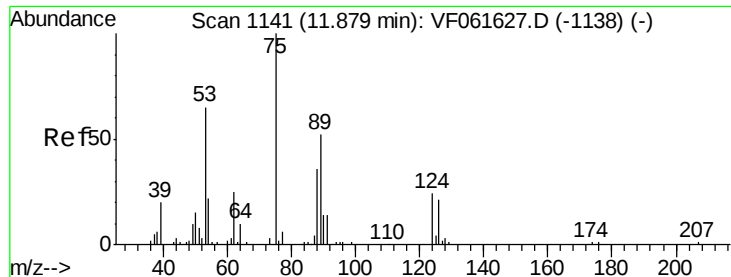
Tot Ion: 91 Resp: 220617
 Ion Ratio Lower Upper
 91 100
 126 35.2 19.8 59.4



#80
 1,3,5-Trimethylbenzene
 Concen: 24.925 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion: 105 Resp: 284146
 Ion Ratio Lower Upper
 105 100
 120 54.1 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 28.233 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

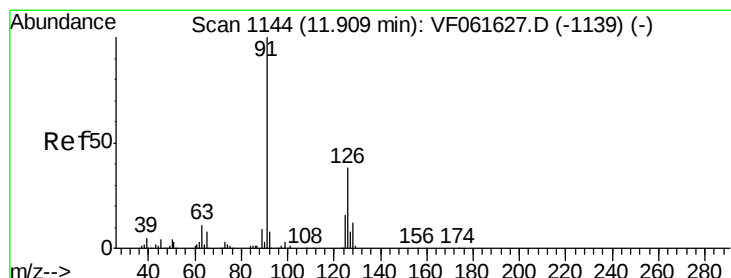
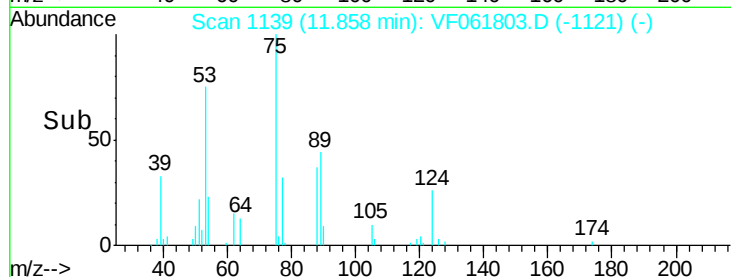
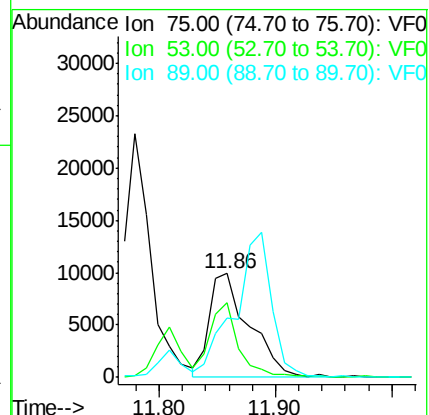
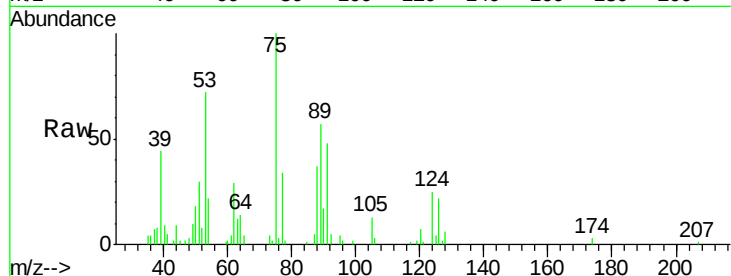
Tot Ion: 75 Resp: 23516

Ion Ratio Lower Upper

75 100

53 71.7 53.7 80.5

89 57.2 41.6 62.4



#82

4-Chlorotoluene

Concen: 24.349 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF061803.D

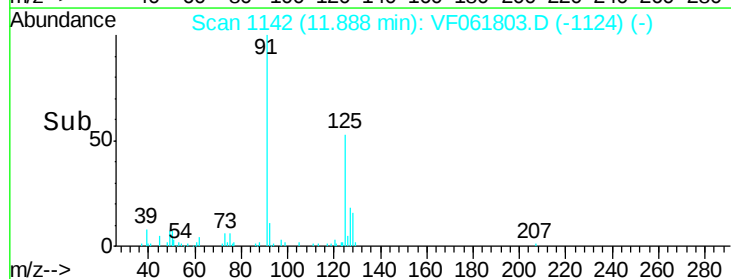
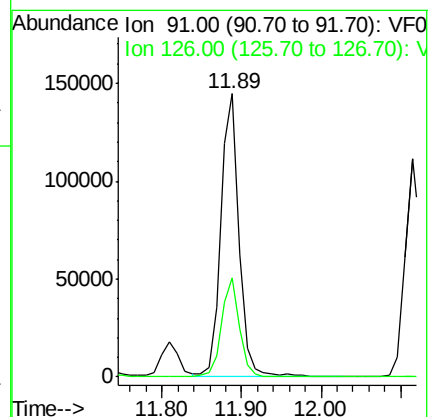
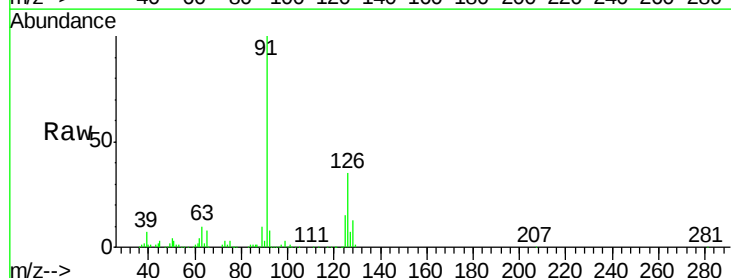
Acq: 1 Mar 2019 15:27

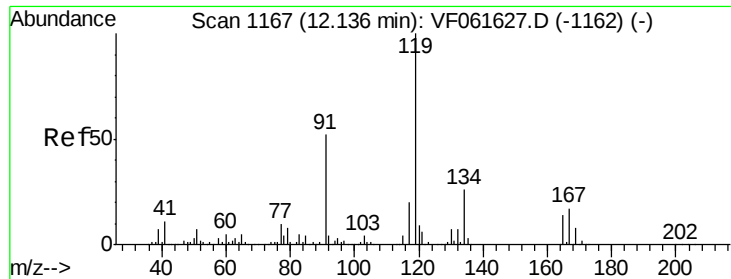
Tgt Ion: 91 Resp: 231674

Ion Ratio Lower Upper

91 100

126 34.8 19.1 57.1

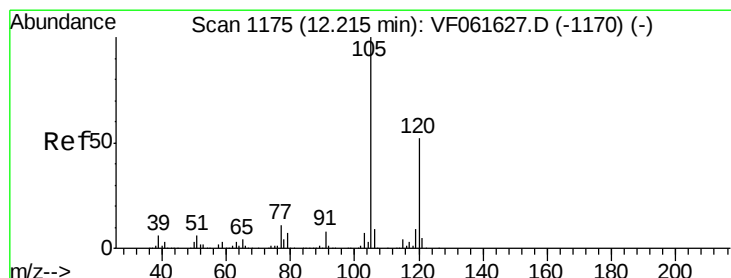
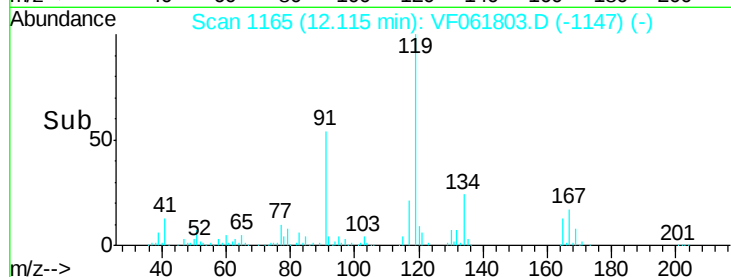
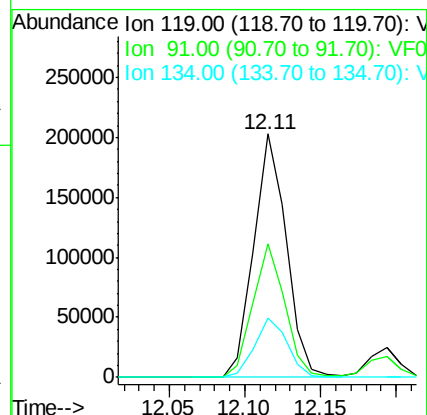
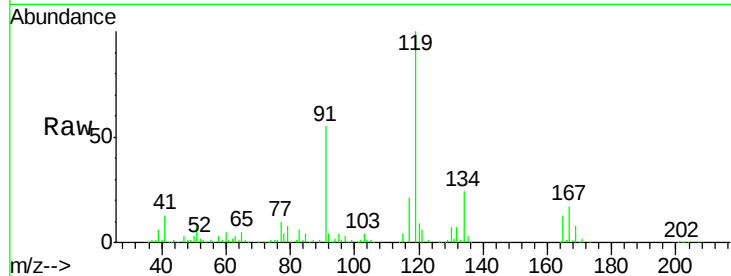




#83
tert-Butylbenzene
Concen: 24.241 ug/l
RT: 12.11 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

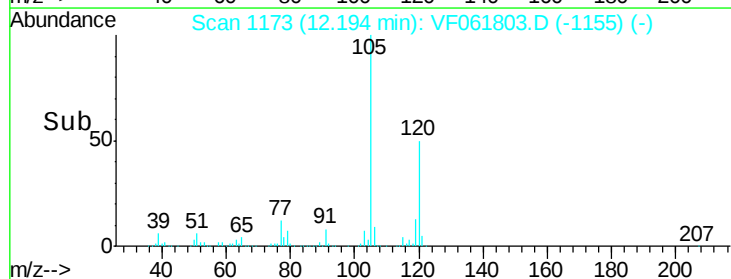
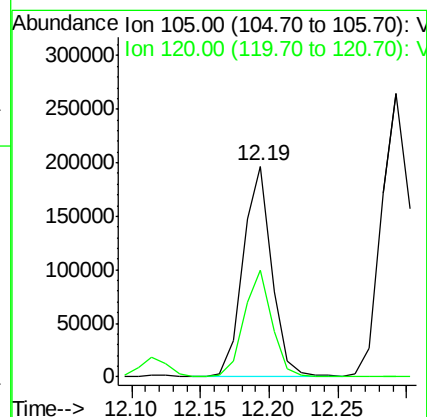
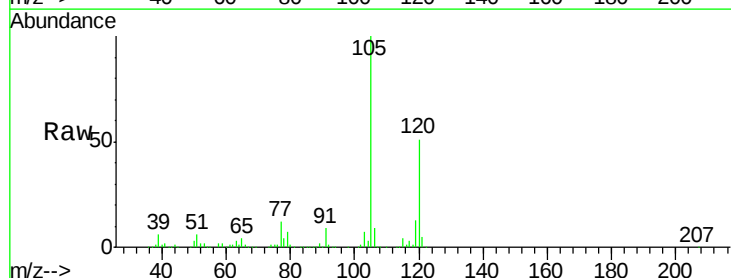
Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

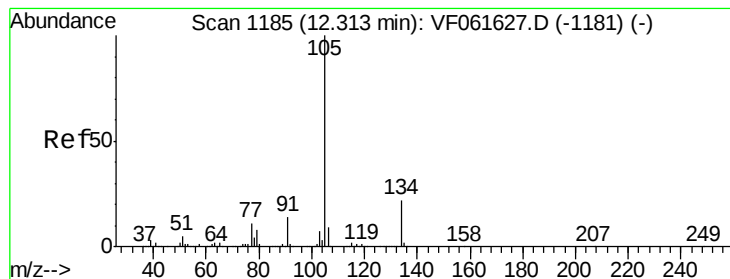
Tot Ion:119 Resp: 306094
Ion Ratio Lower Upper
119 100
91 55.0 26.3 78.8
134 24.3 12.9 38.7



#84
1,2,4-Trimethylbenzene
Concen: 25.221 ug/l
RT: 12.19 min Scan# 1173
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion:105 Resp: 285649
Ion Ratio Lower Upper
105 100
120 50.5 26.1 78.3





#85

sec-Butylbenzene

Concen: 24.161 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

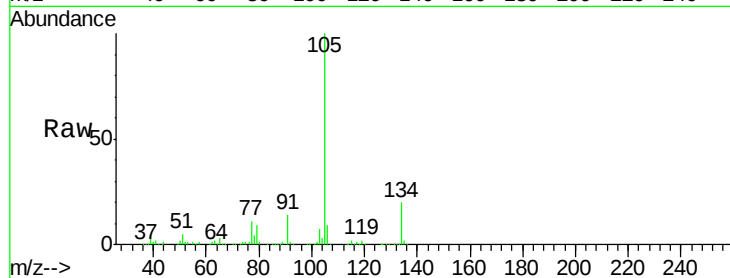
VF0301SBS01

Tot Ion:105 Resp: 394517

Ion Ratio Lower Upper

105 100

134 20.0 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.29

250000

200000

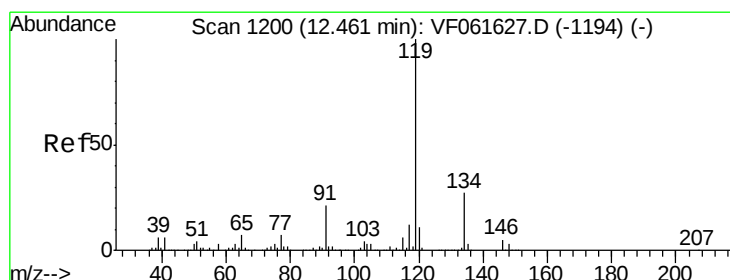
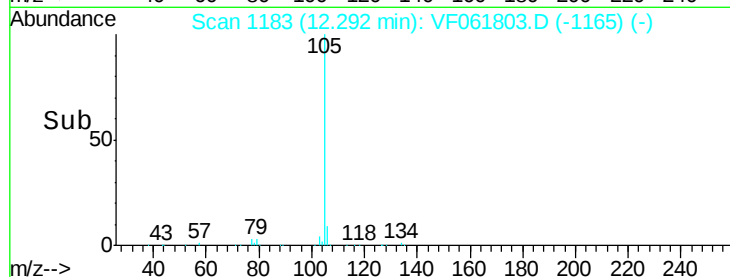
150000

100000

50000

0

Time--> 12.20 12.30 12.40



#86

p-Isopropyltoluene

Concen: 23.708 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

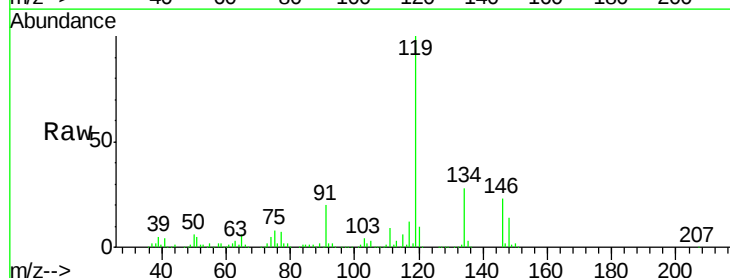
Tgt Ion:119 Resp: 324894

Ion Ratio Lower Upper

119 100

134 27.6 13.7 41.1

91 20.3 10.8 32.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.45

250000

200000

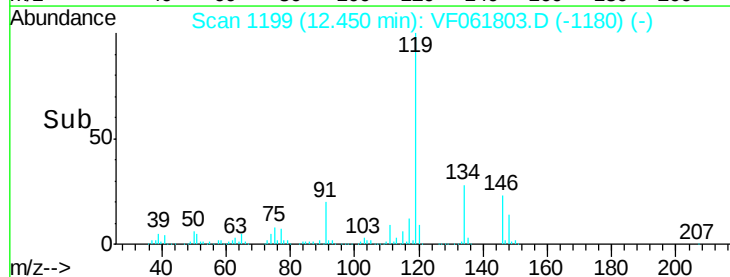
150000

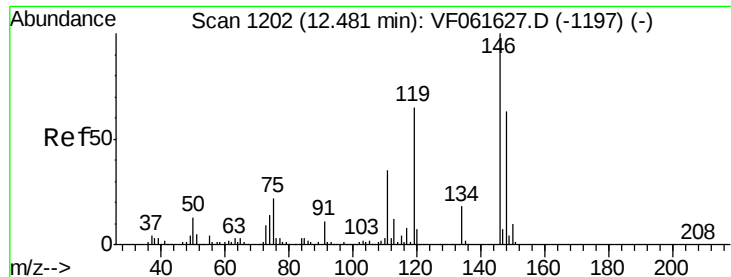
100000

50000

0

Time--> 12.30 12.40 12.50

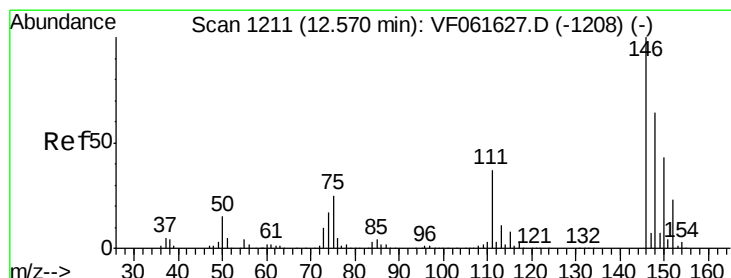
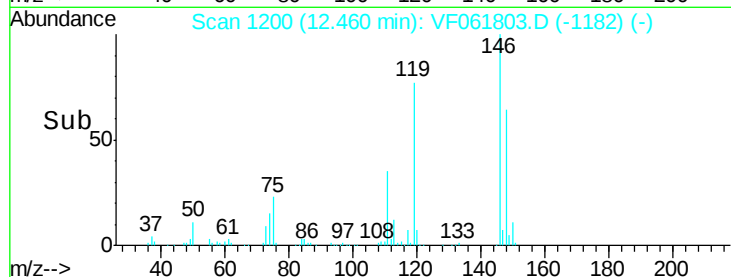
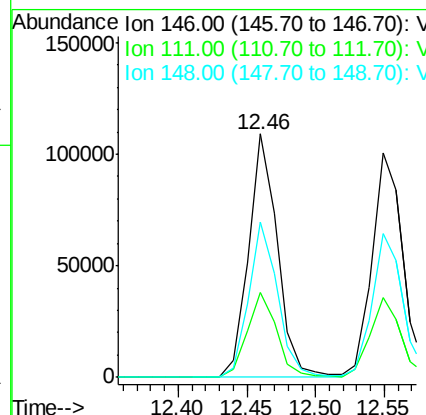
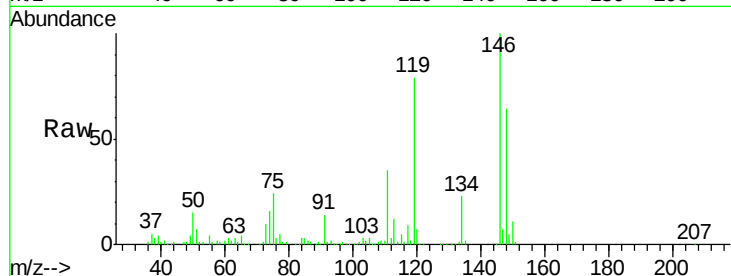




#87
 1,3-Dichlorobenzene
 Concen: 23.320 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

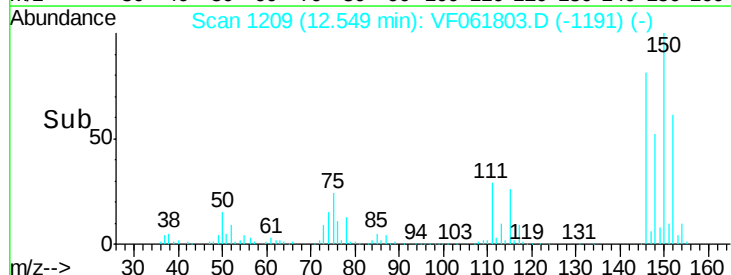
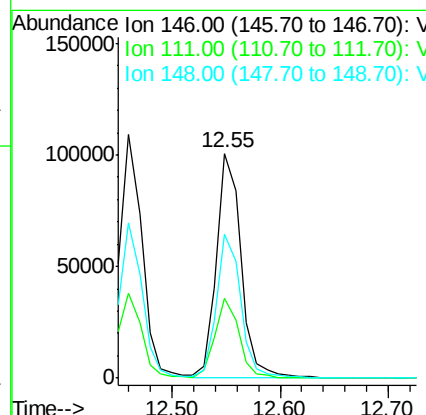
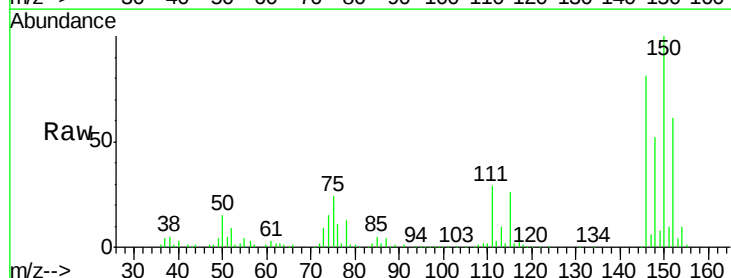
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

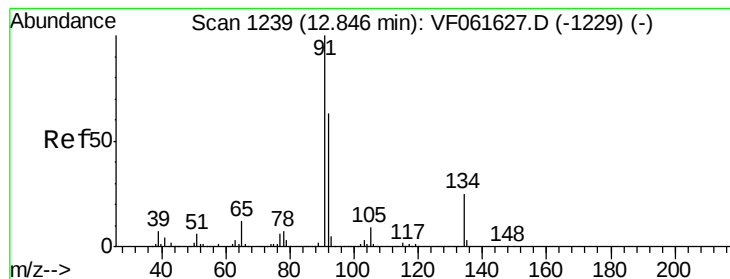
Tot Ion:146 Resp: 160204
 Ion Ratio Lower Upper
 146 100
 111 34.9 17.5 52.6
 148 63.9 31.4 94.3



#88
 1,4-Dichlorobenzene
 Concen: 23.951 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion:146 Resp: 158235
 Ion Ratio Lower Upper
 146 100
 111 35.7 18.4 55.4
 148 63.9 32.2 96.6





#89

n-Butylbenzene

Concen: 24.263 ug/l

RT: 12.83 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

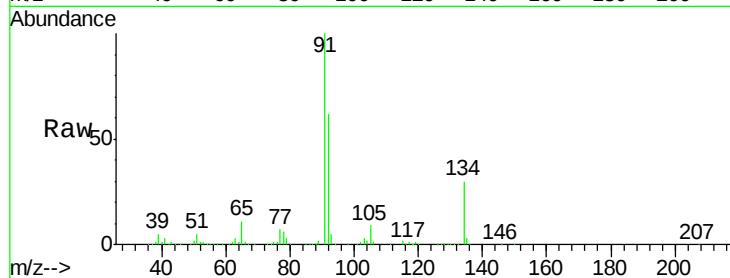
Tot Ion: 91 Resp: 313967

Ion Ratio Lower Upper

91 100

92 62.2 31.4 94.3

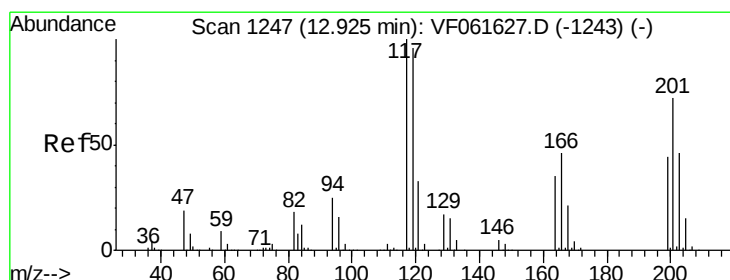
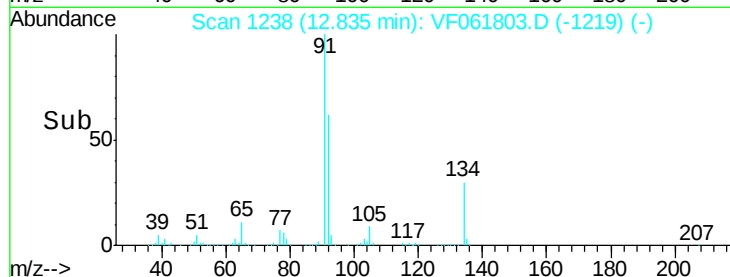
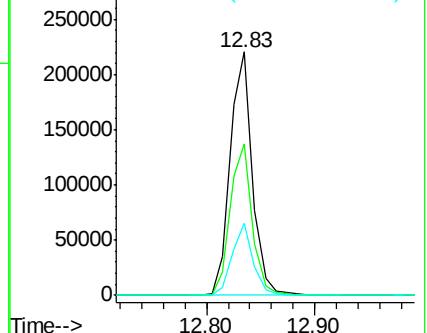
134 29.6 12.3 36.9



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: 23.930 ug/l

RT: 12.90 min Scan# 1245

Delta R.T. -0.02 min

Lab File: VF061803.D

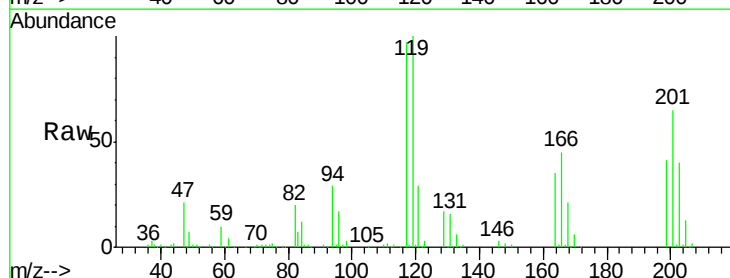
Acq: 1 Mar 2019 15:27

Tgt Ion: 117 Resp: 76269

Ion Ratio Lower Upper

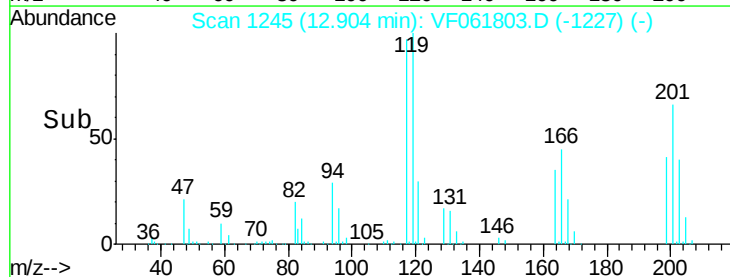
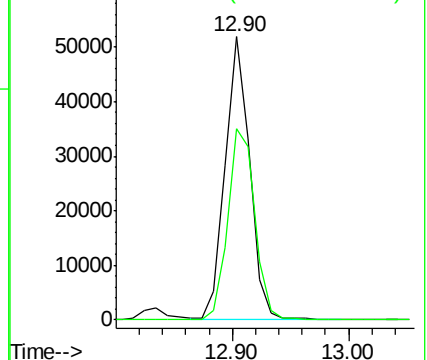
117 100

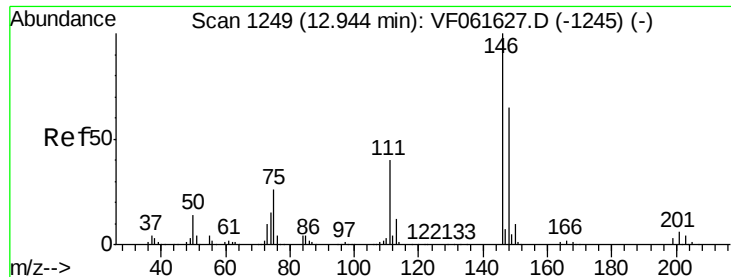
201 67.4 36.2 108.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

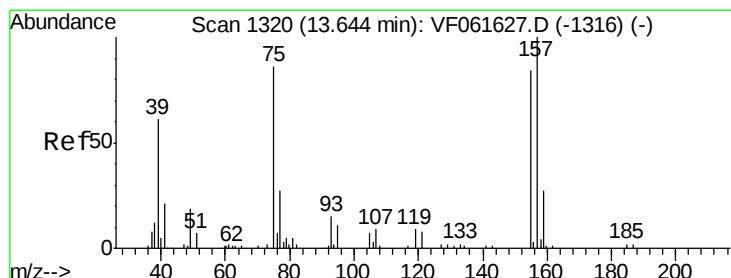
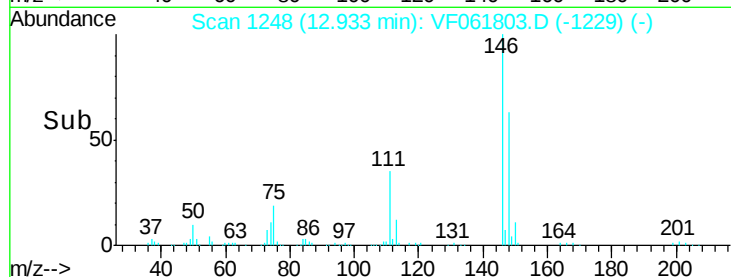
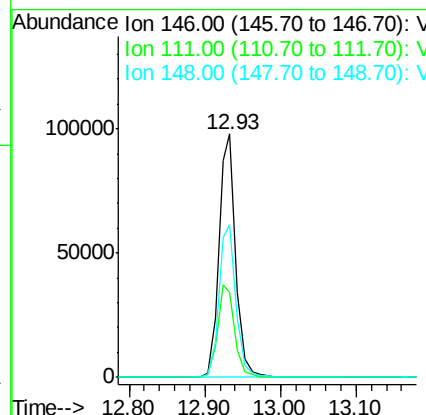
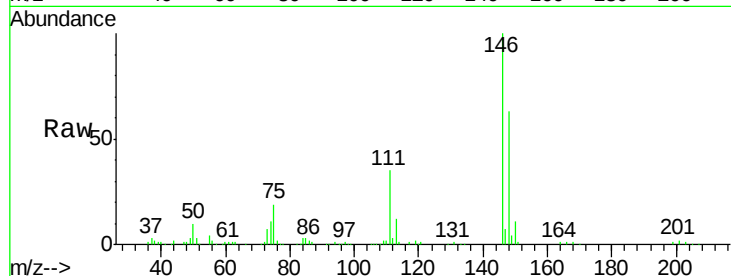




#91
 1,2-Dichlorobenzene
 Concen: 23.403 ug/l
 RT: 12.93 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

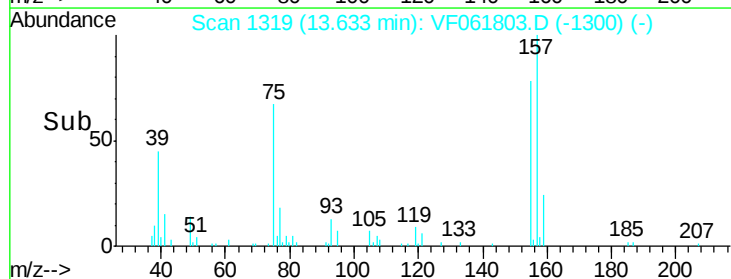
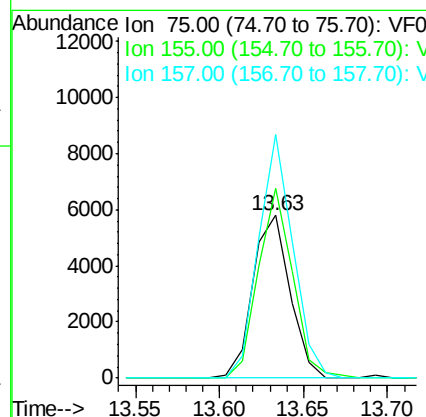
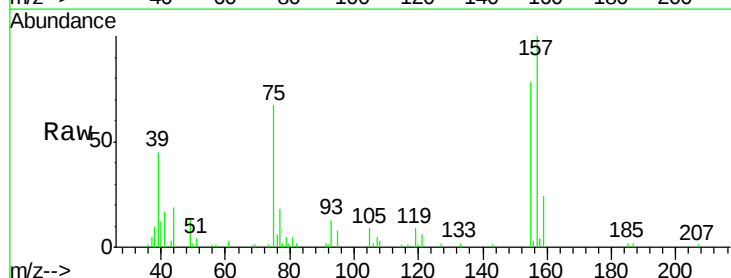
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

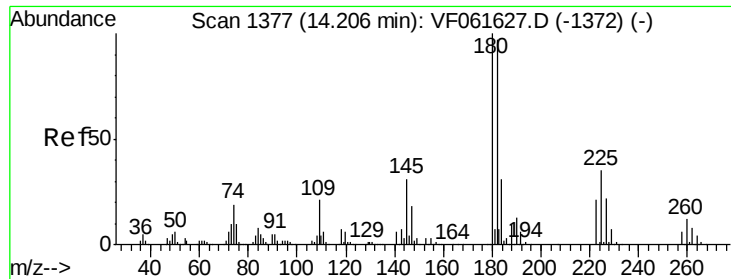
Tot Ion:146 Resp: 152920
 Ion Ratio Lower Upper
 146 100
 111 34.8 20.2 60.5
 148 62.7 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.922 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion: 75 Resp: 8882
 Ion Ratio Lower Upper
 75 100
 155 116.8 48.9 146.8
 157 150.0 58.3 174.8

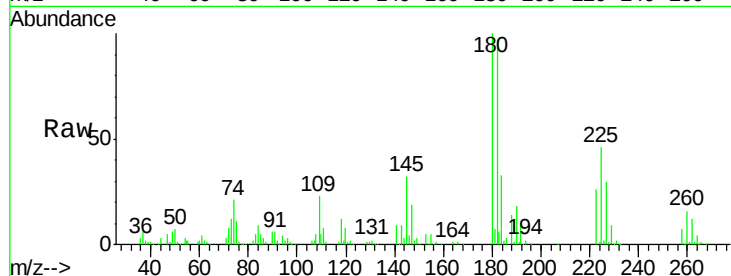




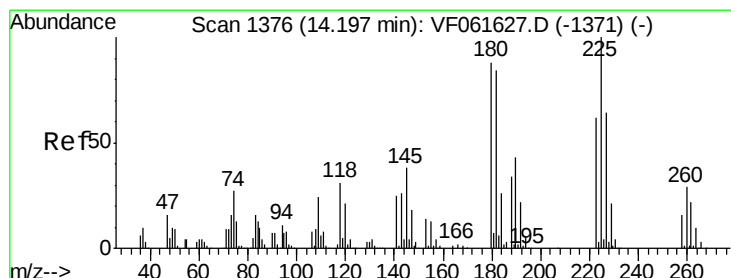
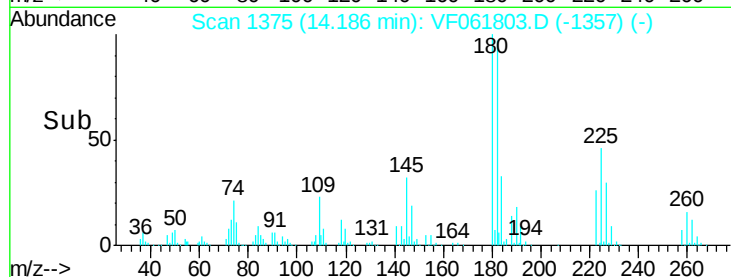
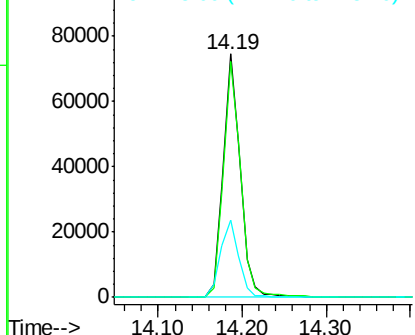
#93
 1,2,4-Trichlorobenzene
 Concen: 22.700 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Tot Ion:180 Resp: 106317
 Ion Ratio Lower Upper
 180 100
 182 97.1 48.6 145.9
 145 31.7 15.3 45.9

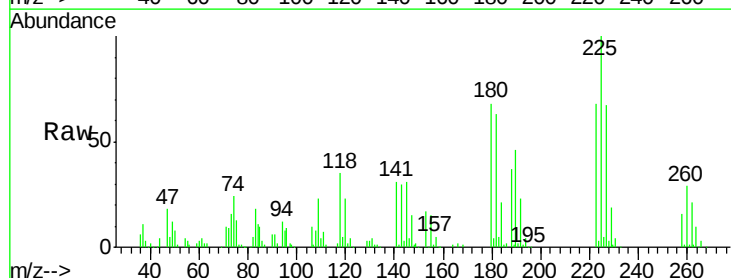


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

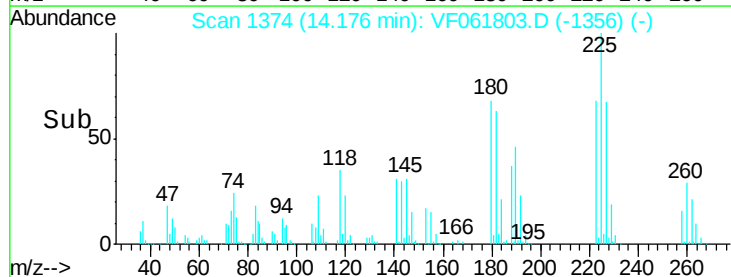
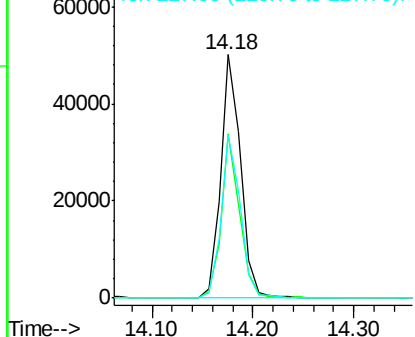


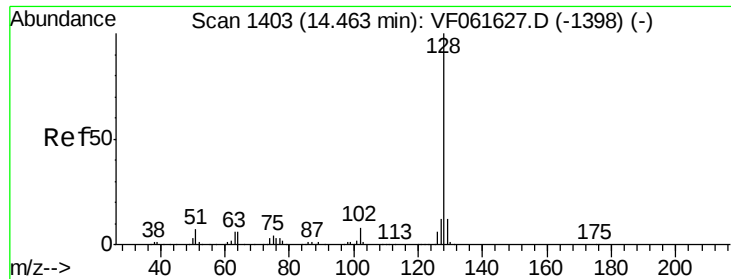
#94
 Hexachlorobutadiene
 Concen: 23.883 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion:225 Resp: 69084
 Ion Ratio Lower Upper
 225 100
 223 67.7 30.9 92.7
 227 66.8 32.1 96.3



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





#95

Naphthalene

Concen: 21.914 ug/l

RT: 14.44 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

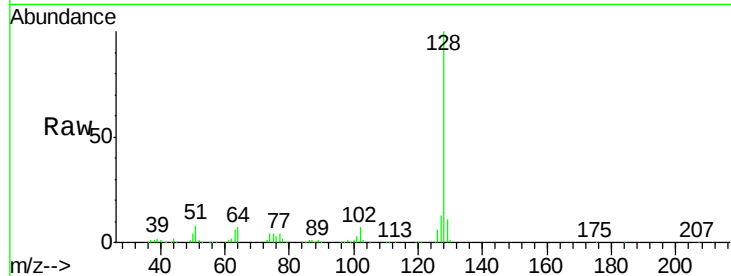
Tot Ion:128 Resp: 179572

Ion Ratio Lower Upper

128 100

127 13.2 9.8 14.6

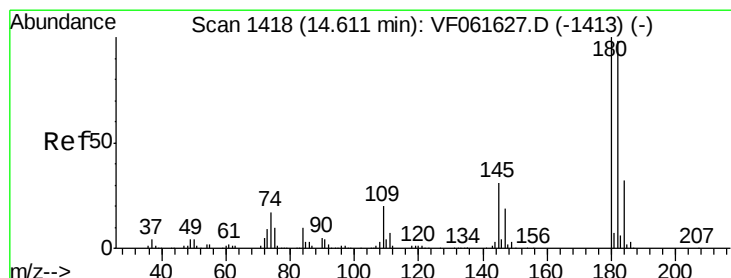
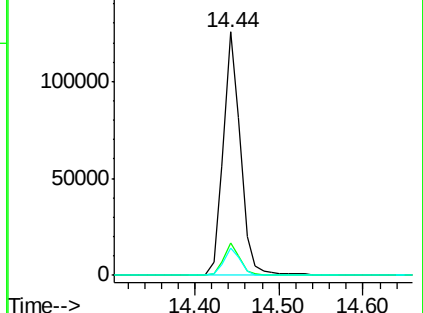
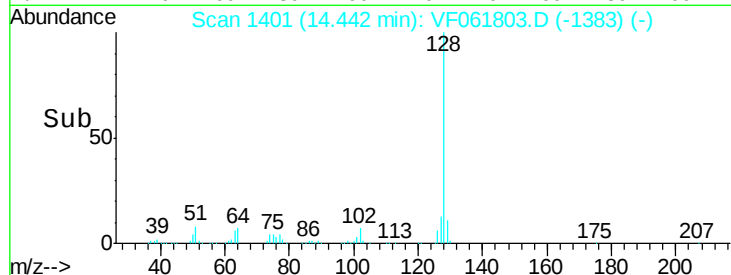
129 11.3 9.4 14.2



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: 23.034 ug/l

RT: 14.59 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

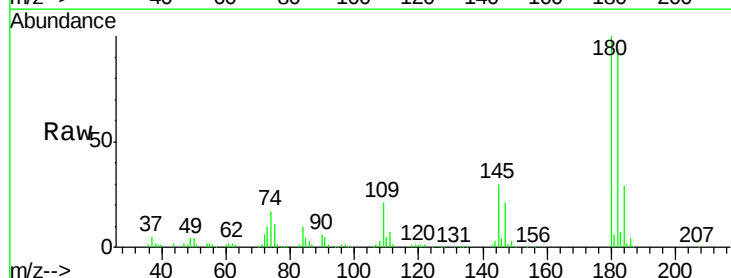
Tgt Ion:180 Resp: 99019

Ion Ratio Lower Upper

180 100

182 93.6 49.0 147.2

145 30.5 15.4 46.1



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

