

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF030419\
 Data File : VF061831.D
 Acq On : 4 Mar 2019 21:19
 Operator : VA/AP
 Sample : VF0304SBSD01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBSD01

Quant Time: Mar 05 05:03:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	310918	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	455386	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	391447	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	198057	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	113480	49.77	ug/l	-0.01
Spiked Amount			Recovery	=	99.54%	
35) Dibromofluoromethane	4.11	113	148182	43.82	ug/l	-0.01
Spiked Amount			Recovery	=	87.64%	
50) Toluene-d8	7.55	98	423674	43.58	ug/l	-0.01
Spiked Amount			Recovery	=	87.16%	
62) 4-Bromofluorobenzene	11.40	95	167950	42.70	ug/l	-0.01
Spiked Amount			Recovery	=	85.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	87413	24.482	ug/l	98
3) Chloromethane	1.09	50	81705	21.810	ug/l	98
4) Vinyl Chloride	1.14	62	74712	21.453	ug/l	99
5) Bromomethane	1.33	94	49569	20.680	ug/l	90
6) Chloroethane	1.41	64	35693	20.797	ug/l	97
7) Trichlorofluoromethane	1.47	101	70361	16.750	ug/l	96
8) Diethyl Ether	1.63	74	20462	19.330	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.85	101	62593	20.656	ug/l #	88
10) Methyl Iodide	1.92	142	98561	17.027	ug/l	99
11) Tert butyl alcohol	2.58	59	15188	115.102	ug/l	98
12) 1,1-Dichloroethene	1.81	96	54995	20.642	ug/l	91
13) Acrolein	2.09	56	1396	8.418	ug/l	99
14) Allyl chloride	2.10	41	56149	17.174	ug/l	96
15) Acrylonitrile	2.94	53	41668	89.027	ug/l	98
16) Acetone	2.24	43	46496	95.047	ug/l	95
17) Carbon Disulfide	1.76	76	18640	2.226	ug/l	98
18) Methyl Acetate	2.35	43	22372	20.301	ug/l	93
19) Methyl tert-butyl Ether	2.43	73	95078	20.881	ug/l	94
20) Methylene Chloride	2.17	84	20579	6.964	ug/l	94
21) trans-1,2-Dichloroethene	2.30	96	46191	15.949	ug/l	95
22) Diisopropyl ether	2.80	45	171329	21.831	ug/l	96
23) Vinyl Acetate	3.19	43	385281	100.514	ug/l	95
24) 1,1-Dichloroethane	2.87	63	96055	20.225	ug/l	98
25) 2-Butanone	4.34	43	97985	91.700	ug/l	97
26) 2,2-Dichloropropane	3.59	77	39146	19.459	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	68950	18.137	ug/l	95
28) Bromochloromethane	3.71	49	41035	18.008	ug/l	87
29) Tetrahydrofuran	4.08	42	45904	94.519	ug/l	95
30) Chloroform	3.86	83	105565	19.546	ug/l	99
31) Cyclohexane	3.68	56	56343	10.959	ug/l	97
32) 1,1,1-Trichloroethane	4.09	97	58851	16.634	ug/l	97
36) 1,1-Dichloropropene	4.28	75	94943	21.046	ug/l	93
37) Ethyl Acetate	4.12	43	42685	20.372	ug/l	99
38) Carbon Tetrachloride	3.98	117	61699	19.807	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	106054	19.878	ug/l	99
40) Benzene	4.63	78	227424	19.274	ug/l	100
41) Methacrylonitrile	4.75	41	22372	20.878	ug/l	94
42) 1,2-Dichloroethane	4.95	62	58111	20.588	ug/l	92
43) Isopropyl Acetate	6.96	43	46025	18.557	ug/l #	85
44) Trichloroethene	5.50	130	75845	19.877	ug/l	96
45) 1,2-Dichloropropane	6.24	63	55615	19.499	ug/l	93
46) Dibromomethane	6.08	93	35299	20.101	ug/l	87
47) Bromodichloromethane	6.39	83	77336	20.110	ug/l	98
48) Methyl methacrylate	6.72	41	28967	19.408	ug/l	87
49) 1,4-Dioxane	6.71	88	5668	403.968	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	176659	99.684	ug/l	99
52) Toluene	7.62	92	140702	19.661	ug/l	94
53) t-1,3-Dichloropropene	8.28	75	64529	20.161	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	88531	20.766	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	39523	18.797	ug/l	93
56) Ethyl methacrylate	8.62	69	47121	20.129	ug/l	94
57) 1,3-Dichloropropane	8.85	76	63647	18.136	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.29	63	38218	94.623	ug/l	94
59) 2-Hexanone	9.49	43	119622	96.294	ug/l	97
60) Dibromochloromethane	8.71	129	53544	18.296	ug/l	96
61) 1,2-Dibromoethane	8.99	107	44854	19.668	ug/l	94
64) Tetrachloroethene	8.15	164	64069	20.024	ug/l	97
65) Chlorobenzene	9.80	112	159853	20.124	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	63420	20.375	ug/l	95
67) Ethyl Benzene	9.90	91	263600	19.955	ug/l	99
68) m/p-Xylenes	10.13	106	199819	39.525	ug/l	97
69) o-Xylene	10.71	106	108520	20.117	ug/l	95
70) Styrene	10.78	104	147295	19.301	ug/l	98
71) Bromoform	10.77	173	34077	20.161	ug/l	95
73) Isopropylbenzene	11.12	105	316583	22.451	ug/l	99
74) N-amyl acetate	11.37	43	78353	23.149	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.69	83	54748	21.671	ug/l	97
76) 1,2,3-Trichloropropane	11.79	75	35751	20.815	ug/l	100
77) Bromobenzene	11.49	156	72219	20.731	ug/l	93
78) n-propylbenzene	11.59	91	341887	21.128	ug/l	99
79) 2-Chlorotoluene	11.72	91	199699	22.036	ug/l	95
80) 1,3,5-Trimethylbenzene	11.82	105	260250	23.092	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	21867	26.556	ug/l	96
82) 4-Chlorotoluene	11.90	91	204135	21.702	ug/l	95
83) tert-Butylbenzene	12.12	119	278111	22.279	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	256575	22.915	ug/l	96
85) sec-Butylbenzene	12.30	105	345592	21.409	ug/l	94
86) p-Isopropyltoluene	12.46	119	306350	22.613	ug/l	100
87) 1,3-Dichlorobenzene	12.47	146	146103	21.513	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	135052	20.677	ug/l	97
89) n-Butylbenzene	12.84	91	281641	22.016	ug/l	96
90) Hexachloroethane	12.91	117	73524	23.335	ug/l	87
91) 1,2-Dichlorobenzene	12.94	146	135315	20.948	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8418	21.017	ug/l	89

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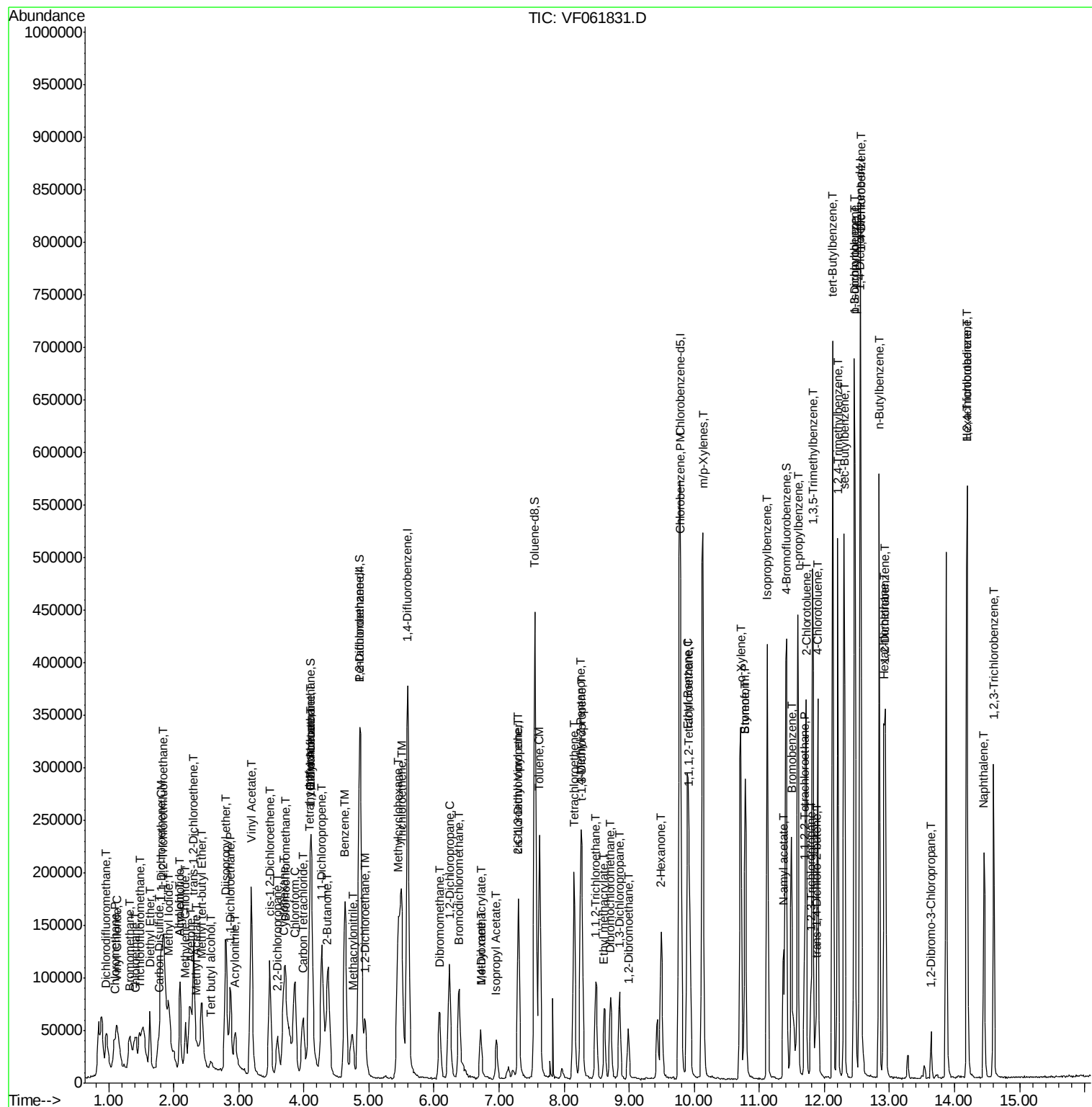
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	96160	20.768	µg/l	96
94) Hexachlorobutadiene	14.19	225	64074	22.407	µg/l	97
95) Naphthalene	14.45	128	170752	21.078	µg/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	88707	20.873	µg/l	99

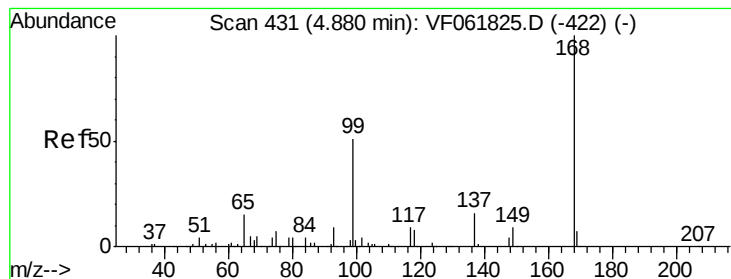
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

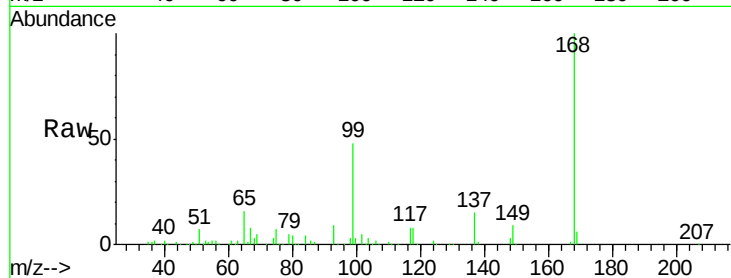
VF0304SBS01

Tot Ion:168 Resp: 310918

Ion Ratio Lower Upper

168 100

99 48.5 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

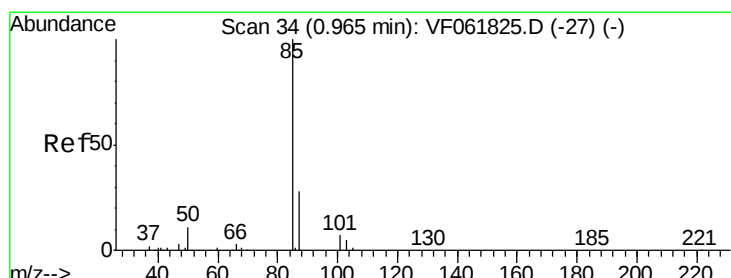
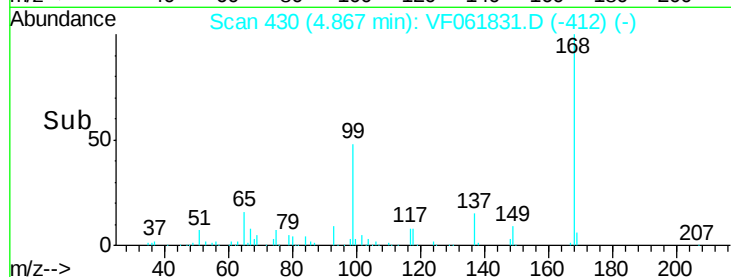
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 24.482 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061831.D

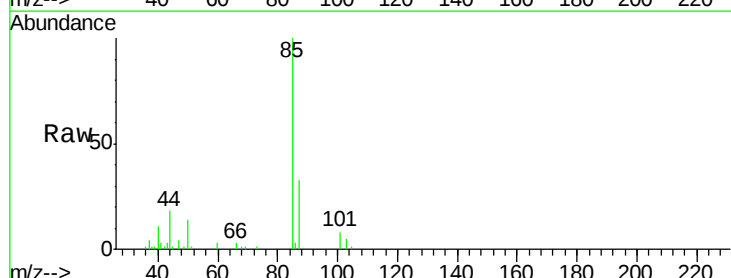
Acq: 4 Mar 2019 21:19

Tgt Ion: 85 Resp: 87413

Ion Ratio Lower Upper

85 100

87 33.3 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

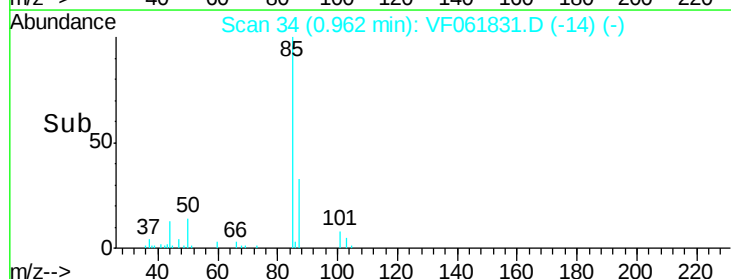
15000

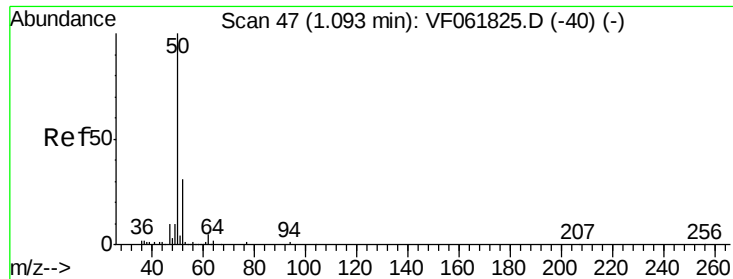
10000

5000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 21.810 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

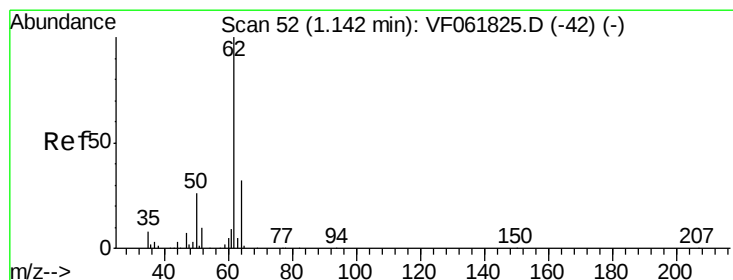
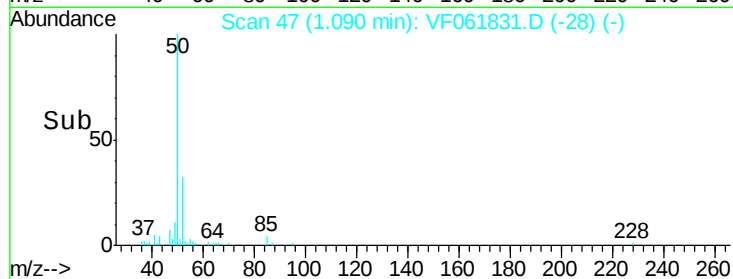
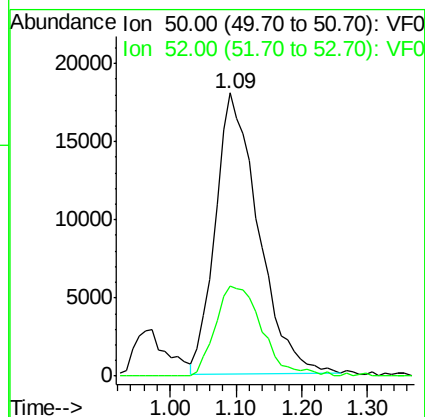
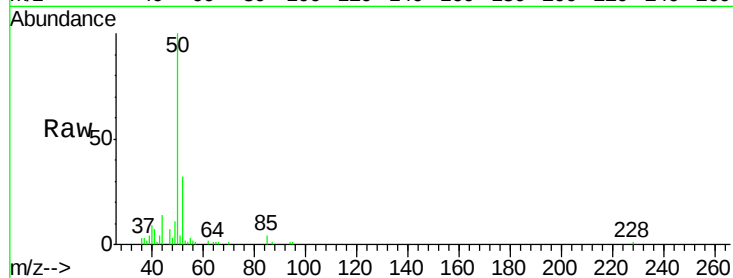
VF0304SBS01

Tot Ion: 50 Resp: 81705

Ion Ratio Lower Upper

50 100

52 31.7 26.2 39.4



#4

Vinyl Chloride

Concen: 21.453 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061831.D

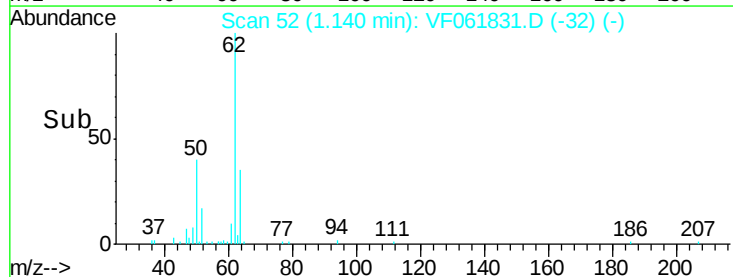
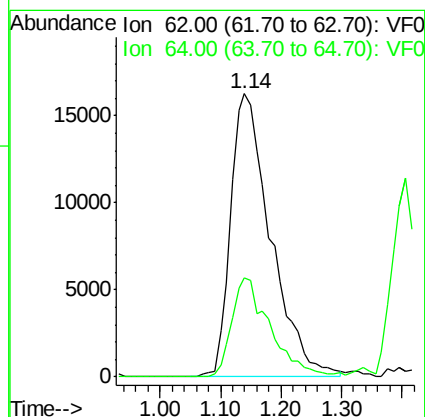
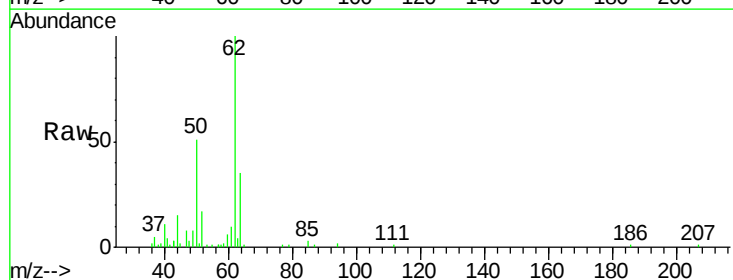
Acq: 4 Mar 2019 21:19

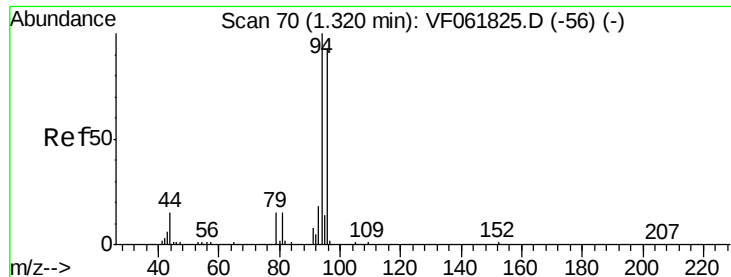
Tgt Ion: 62 Resp: 74712

Ion Ratio Lower Upper

62 100

64 34.9 27.5 41.3





#5

Bromomethane

Concen: 20.680 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

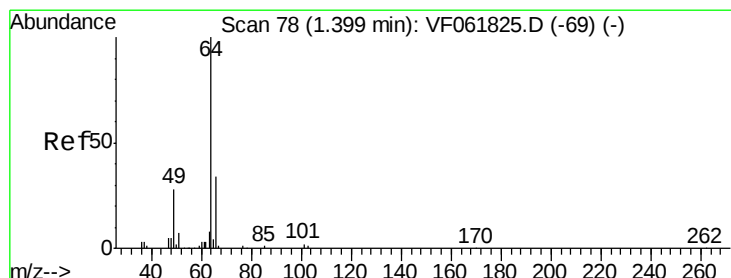
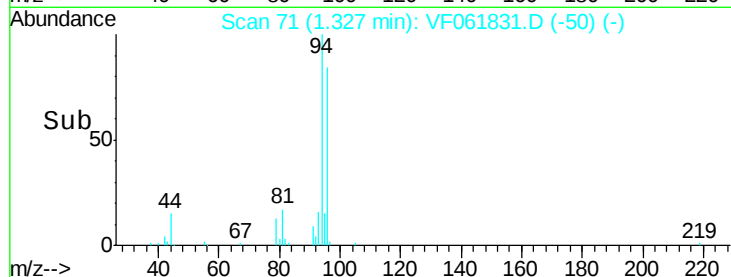
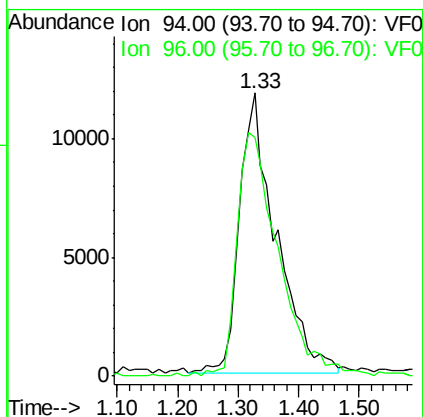
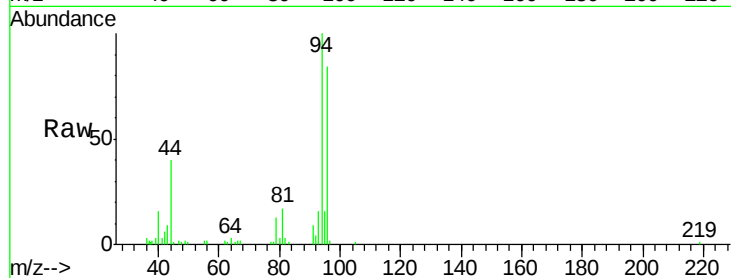
VF0304SBS01

Tot Ion: 94 Resp: 49569

Ion Ratio Lower Upper

94 100

96 84.2 74.6 112.0



#6

Chloroethane

Concen: 20.797 ug/l

RT: 1.41 min Scan# 79

Delta R.T. 0.01 min

Lab File: VF061831.D

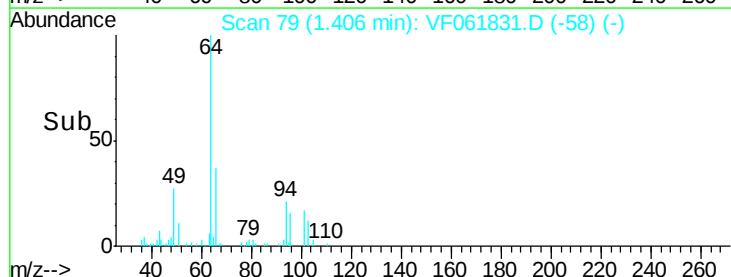
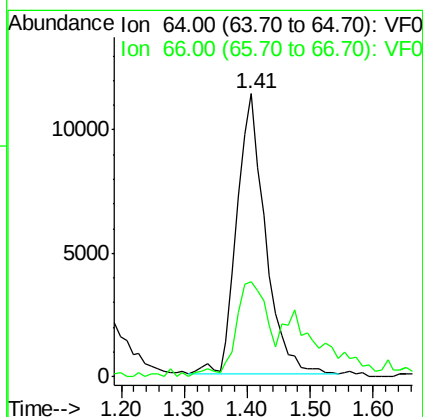
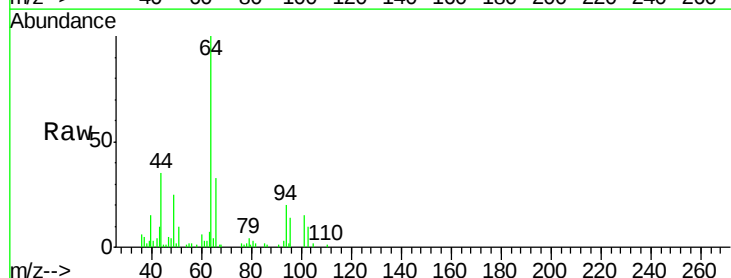
Acq: 4 Mar 2019 21:19

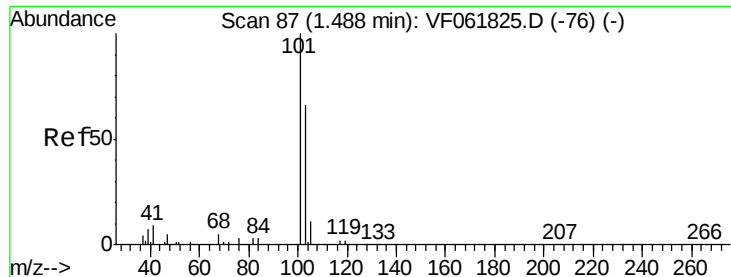
Tgt Ion: 64 Resp: 35693

Ion Ratio Lower Upper

64 100

66 33.4 27.9 41.9



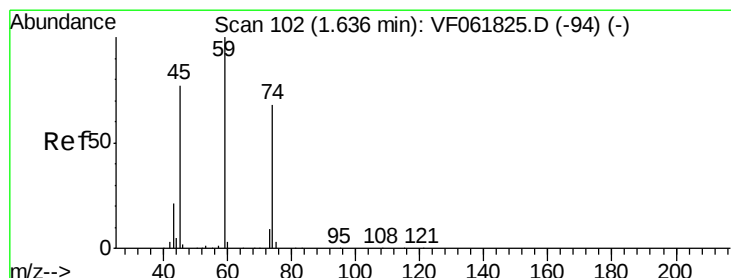
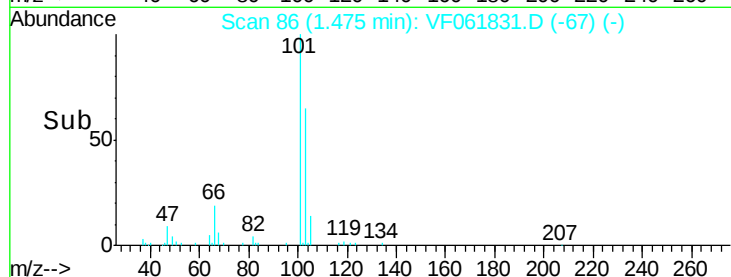
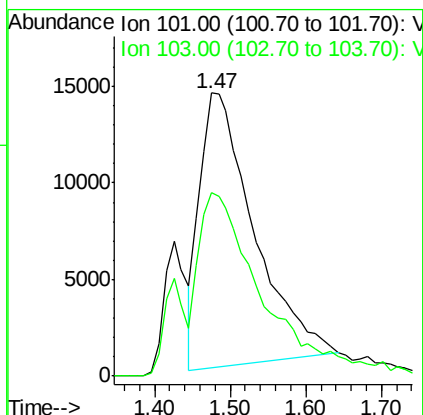
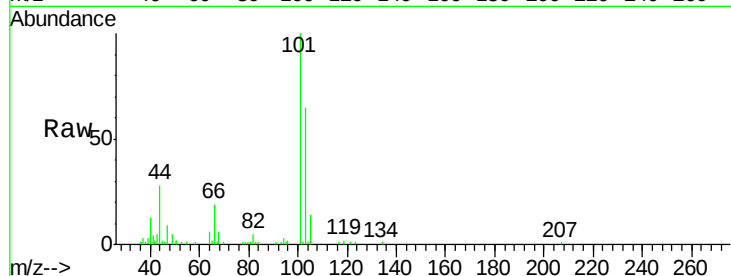


#7

Trichlorofluoromethane
 Concen: 16.750 ug/l
 RT: 1.47 min Scan# 86
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Instrument :
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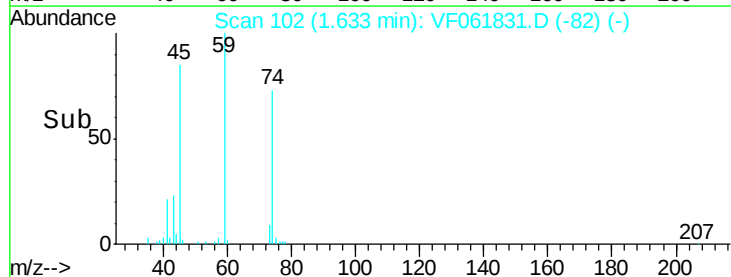
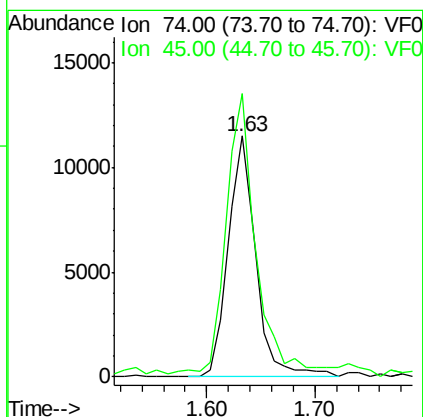
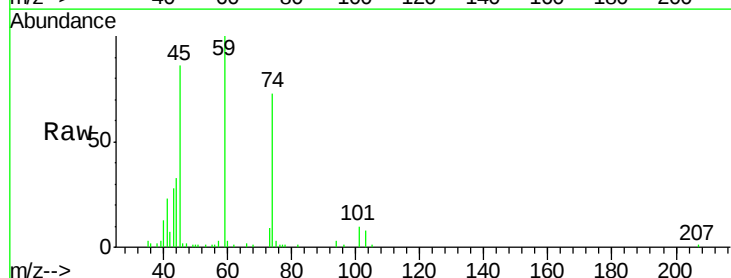
Tot Ion:101 Resp: 70361
 Ion Ratio Lower Upper
 101 100
 103 65.0 49.3 73.9

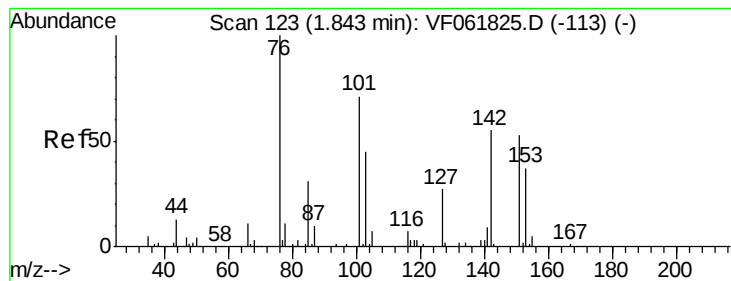


#8

Diethyl Ether
 Concen: 19.330 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. -0.00 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion: 74 Resp: 20462
 Ion Ratio Lower Upper
 74 100
 45 117.6 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.656 ug/l

RT: 1.85 min Scan# 124

Delta R.T. 0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

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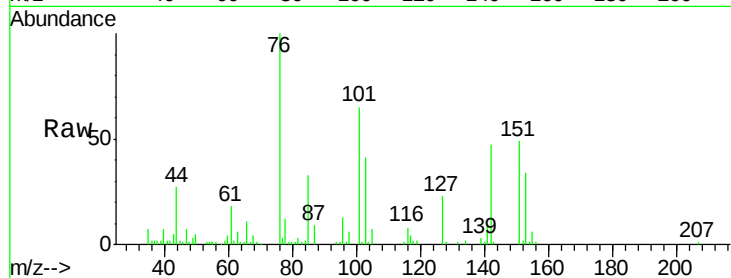
Tot Ion:101 Resp: 62593

Ion Ratio Lower Upper

101 100

85 51.1 29.8 44.6#

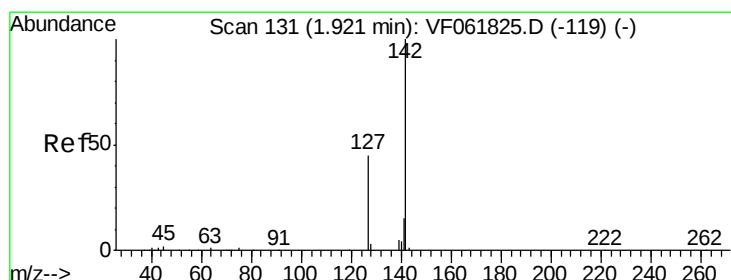
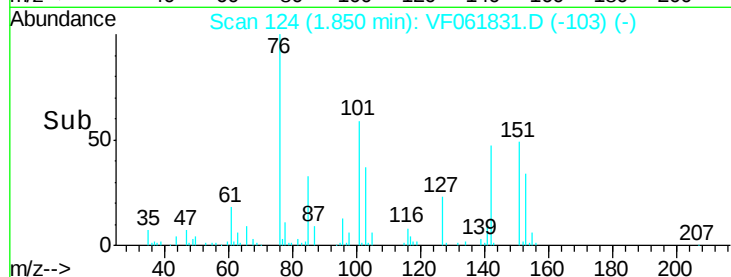
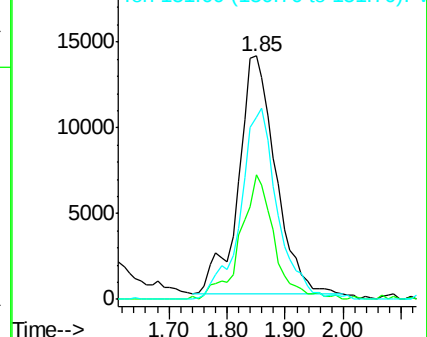
151 74.9 56.3 84.5



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: 17.027 ug/l

RT: 1.92 min Scan# 131

Delta R.T. 0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

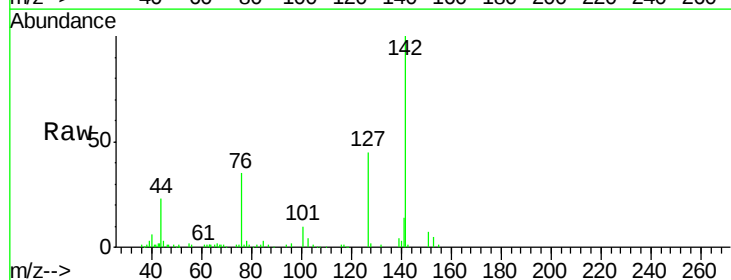
Tgt Ion:142 Resp: 98561

Ion Ratio Lower Upper

142 100

127 45.1 36.6 55.0

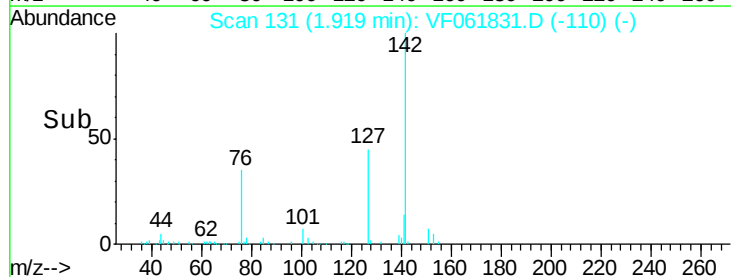
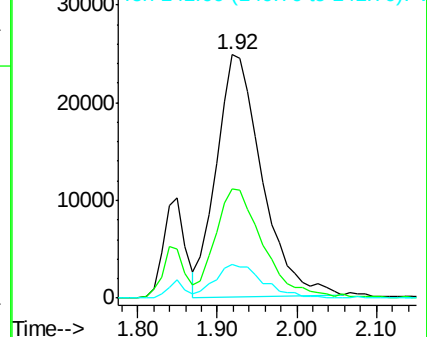
141 14.1 11.0 16.6

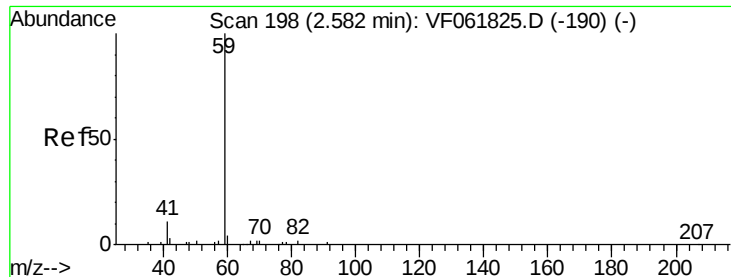


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

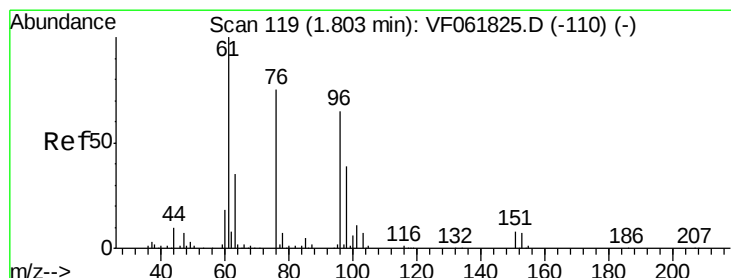
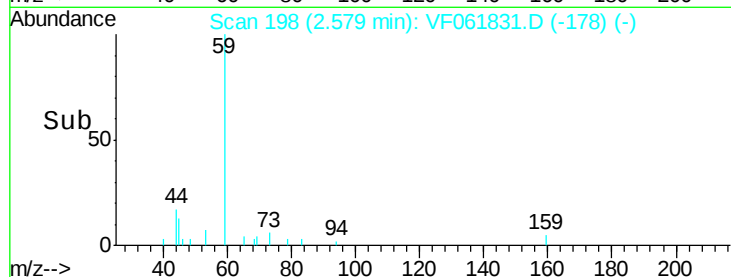
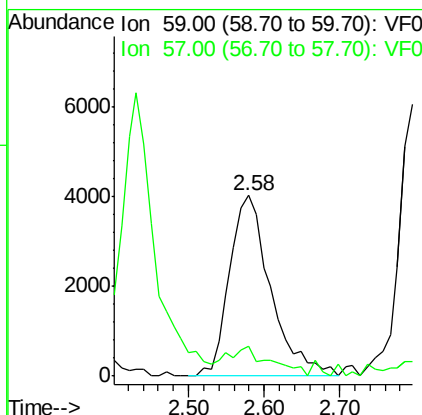
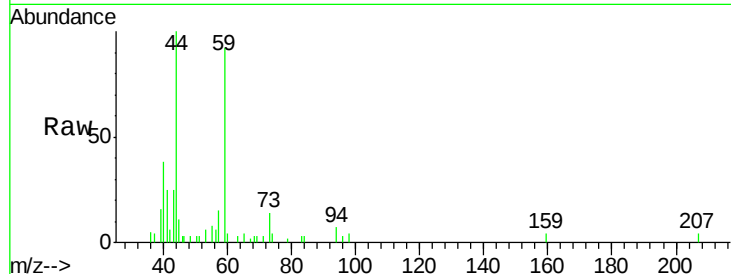




#11
Tert butyl alcohol
Concen: 115.102 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

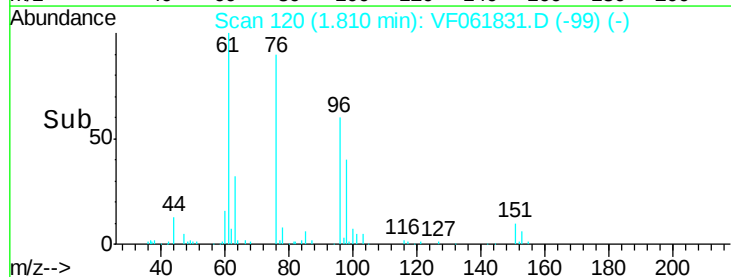
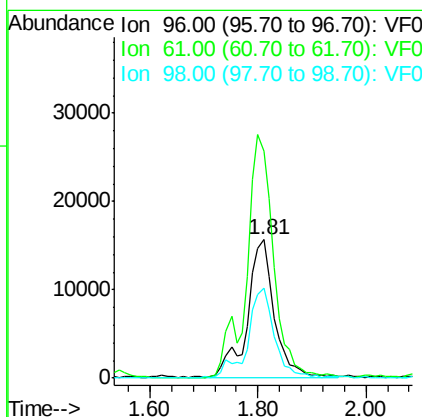
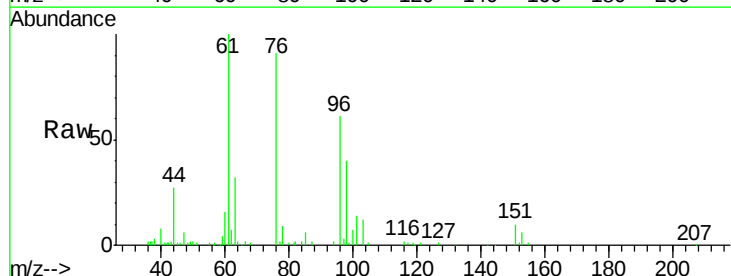
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

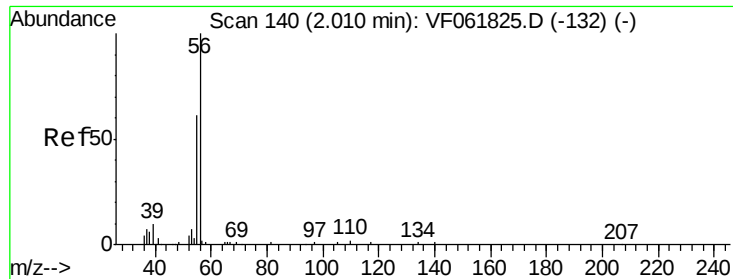
Tot Ion: 59 Resp: 15188
Ion Ratio Lower Upper
59 100
57 16.5 12.5 18.7



#12
1,1-Dichloroethene
Concen: 20.642 ug/l
RT: 1.81 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion: 96 Resp: 54995
Ion Ratio Lower Upper
96 100
61 164.3 122.6 184.0
98 66.3 47.2 70.8

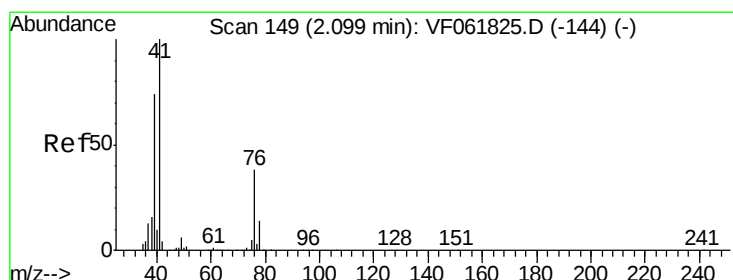
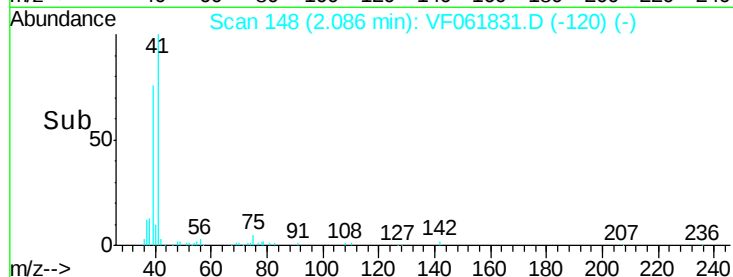
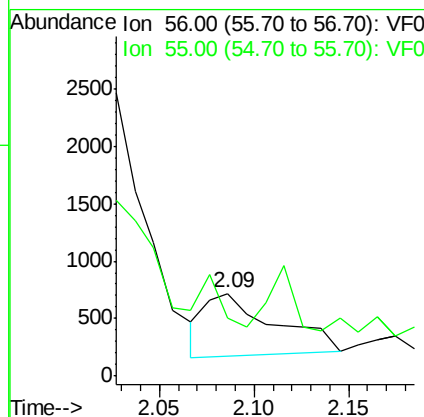
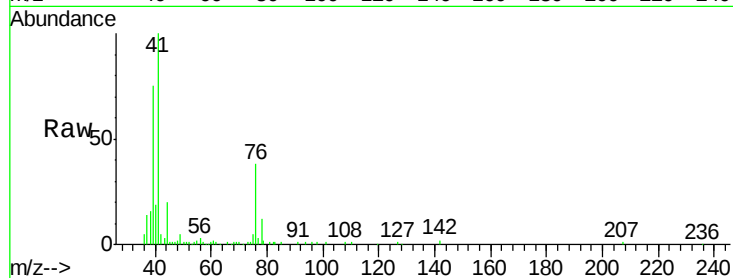




#13
Acrolein
Concen: 8.418 ug/l
RT: 2.09 min Scan# 148
Delta R.T. 0.08 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

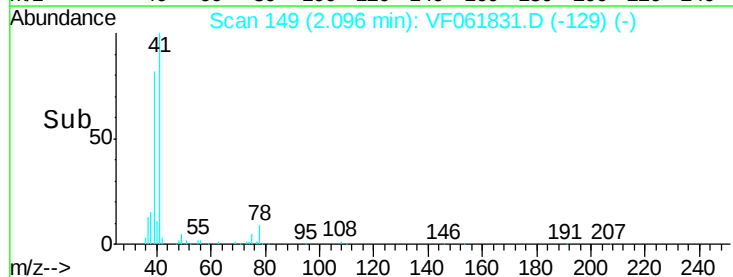
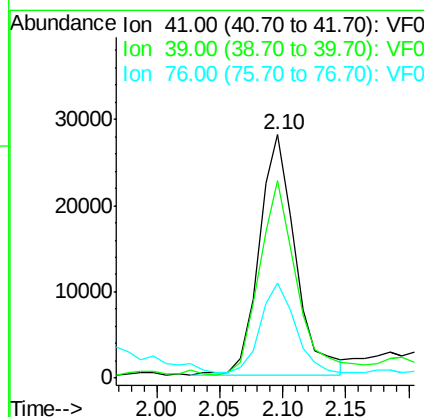
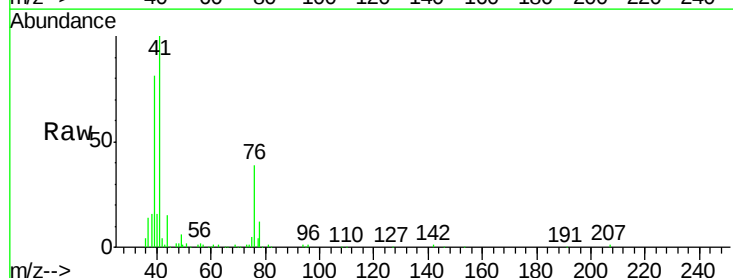
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

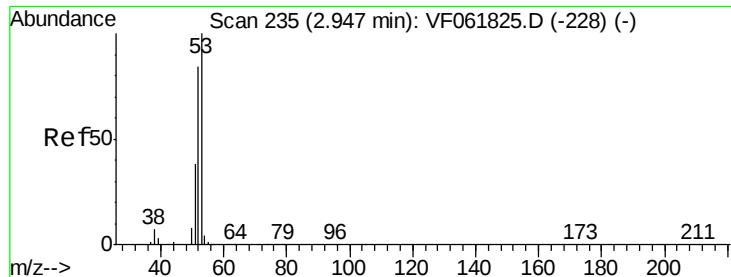
Tot Ion: 56 Resp: 1396
Ion Ratio Lower Upper
56 100
55 69.5 55.0 82.6



#14
Allyl chloride
Concen: 17.174 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion: 41 Resp: 56149
Ion Ratio Lower Upper
41 100
39 81.3 61.6 92.4
76 38.9 30.3 45.5





#15

Acrylonitrile

Concen: 89.027 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

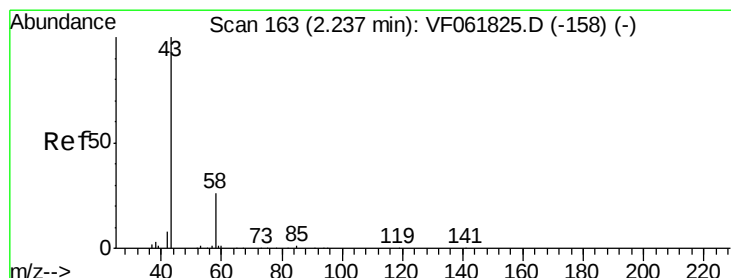
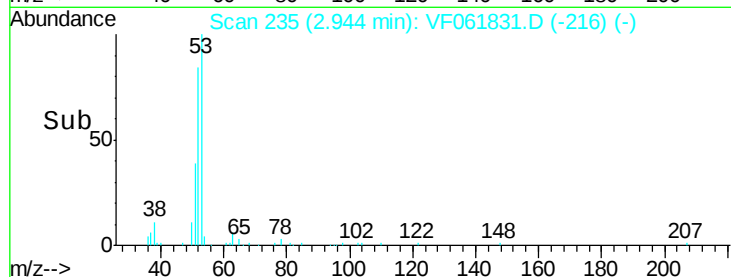
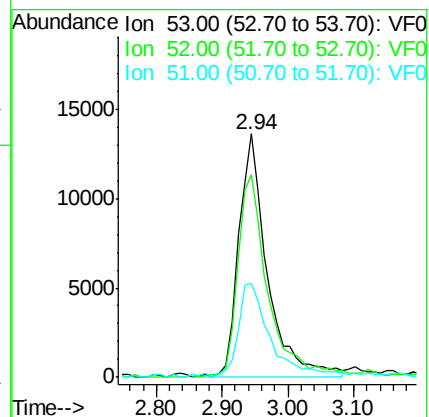
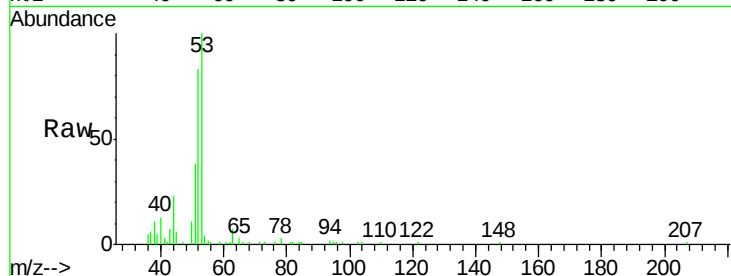
Tot Ion: 53 Resp: 41668

Ion Ratio Lower Upper

53 100

52 83.2 64.6 97.0

51 38.5 29.8 44.8



#16

Acetone

Concen: 95.047 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF061831.D

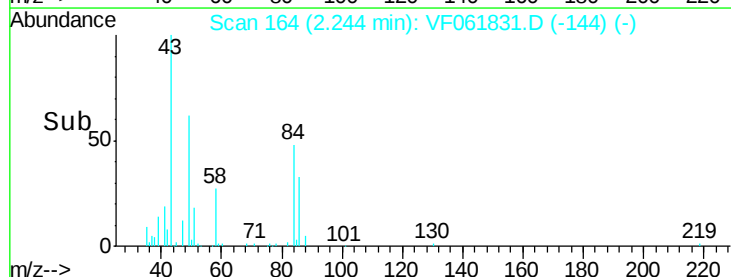
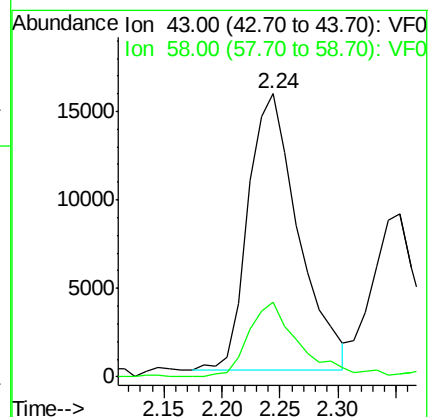
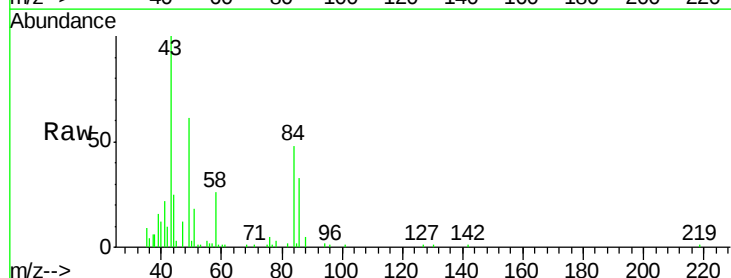
Acq: 4 Mar 2019 21:19

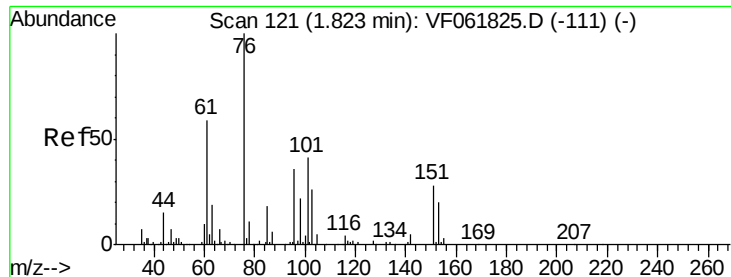
Tgt Ion: 43 Resp: 46496

Ion Ratio Lower Upper

43 100

58 26.2 22.9 34.3

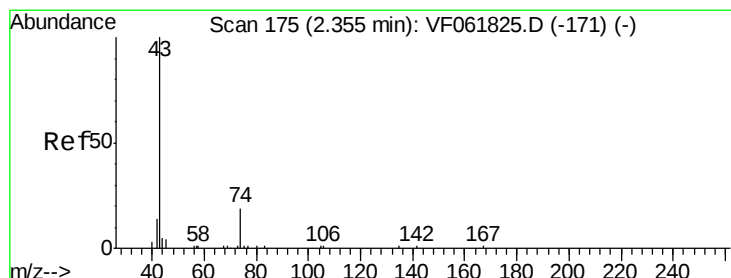
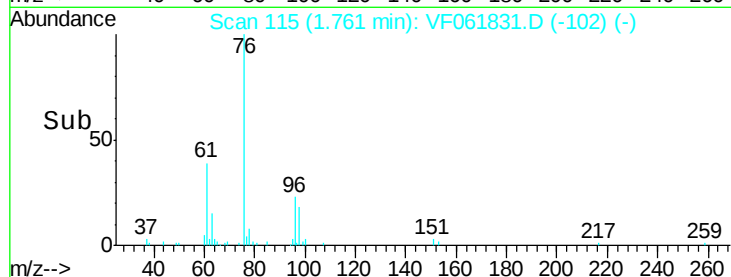
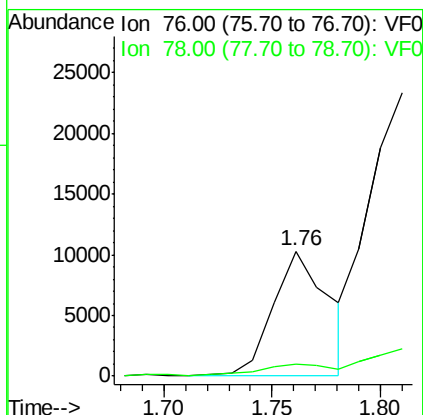
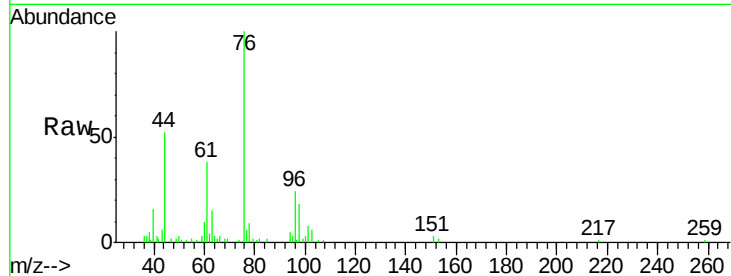




#17
Carbon Disulfide
Concen: 2.226 ug/l
RT: 1.76 min Scan# 115
Delta R.T. -0.07 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

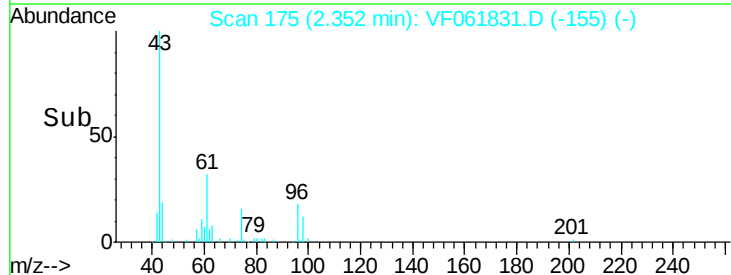
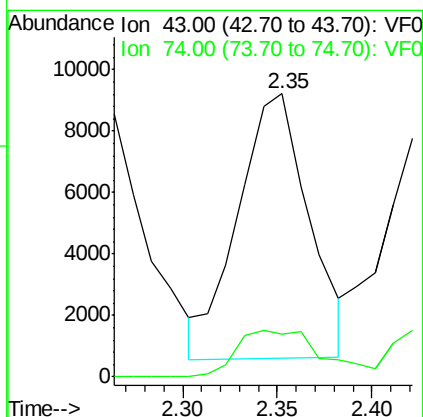
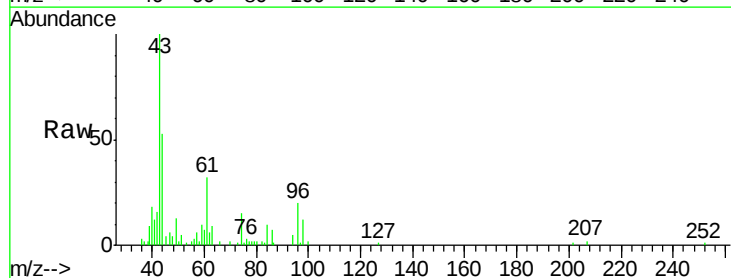
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

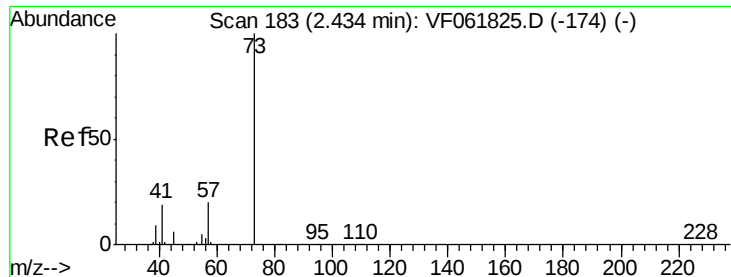
Tot Ion: 76 Resp: 18640
Ion Ratio Lower Upper
76 100
78 9.2 7.9 11.9



#18
Methyl Acetate
Concen: 20.301 ug/l
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion: 43 Resp: 22372
Ion Ratio Lower Upper
43 100
74 15.0 14.6 21.8

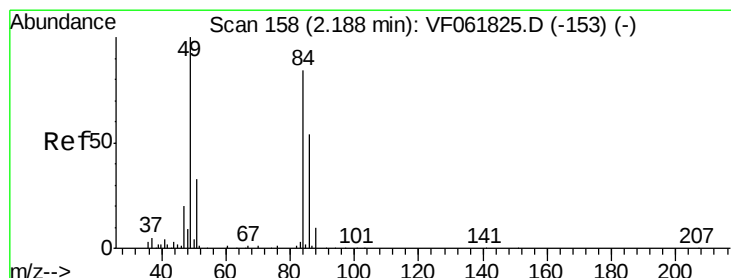
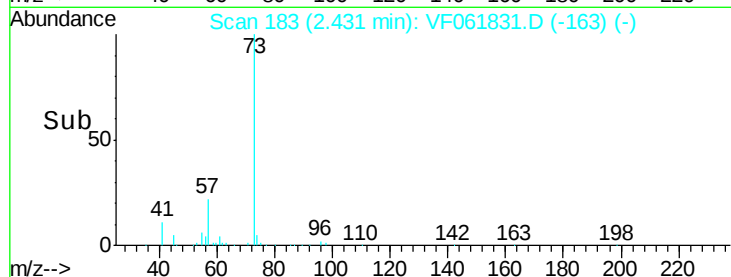
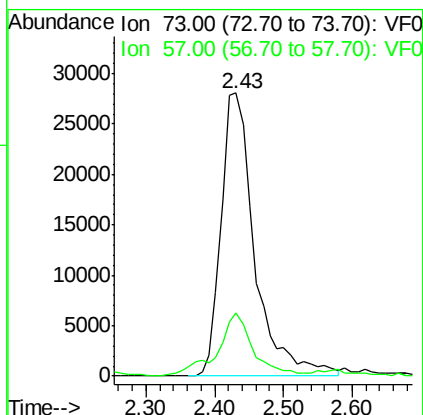
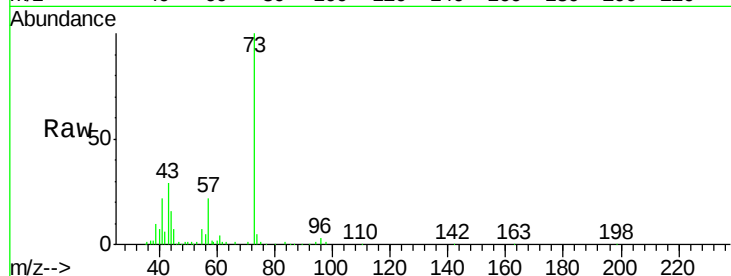




#19
Methyl tert-butyl Ether
Concen: 20.881 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

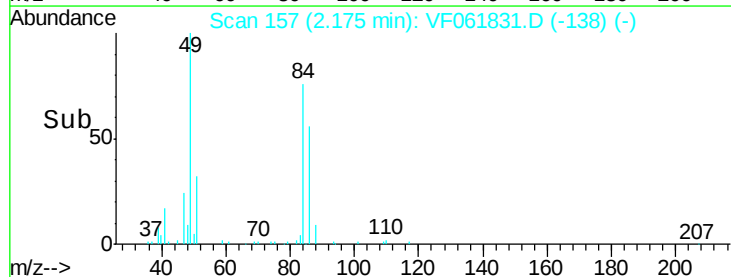
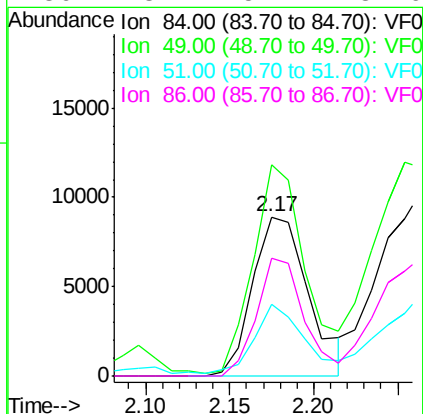
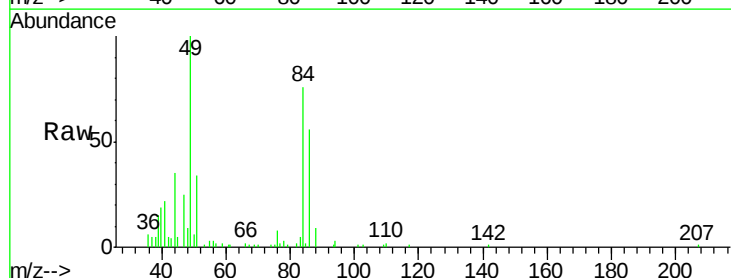
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

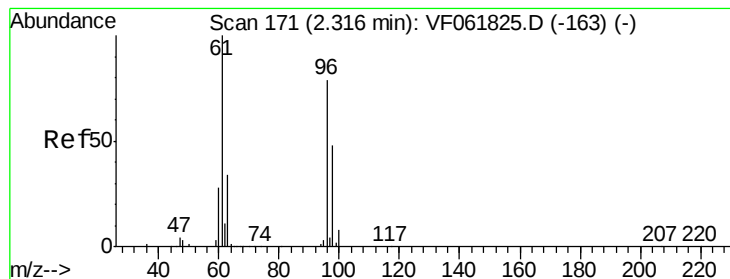
Tot Ion: 73 Resp: 95078
Ion Ratio Lower Upper
73 100
57 22.4 15.8 23.8



#20
Methylene Chloride
Concen: 6.964 ug/l
RT: 2.17 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion: 84 Resp: 20579
Ion Ratio Lower Upper
84 100
49 132.3 101.8 152.8
51 44.9 31.1 46.7
86 73.7 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 15.949 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

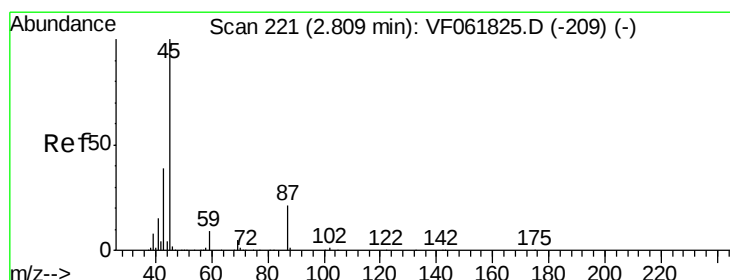
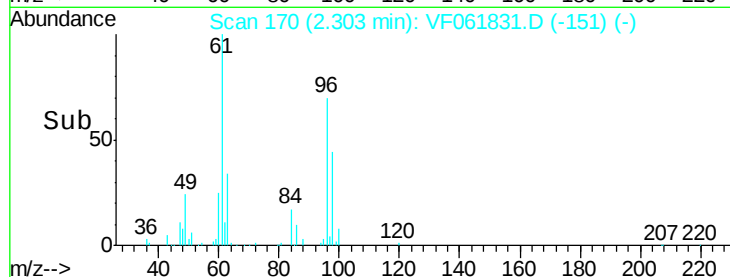
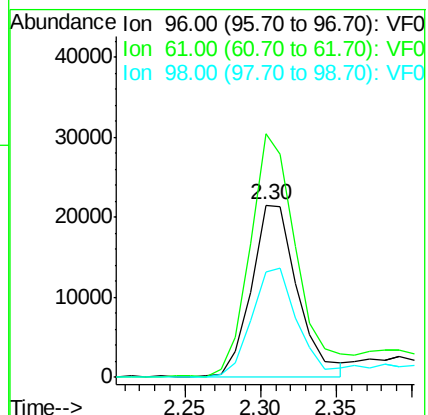
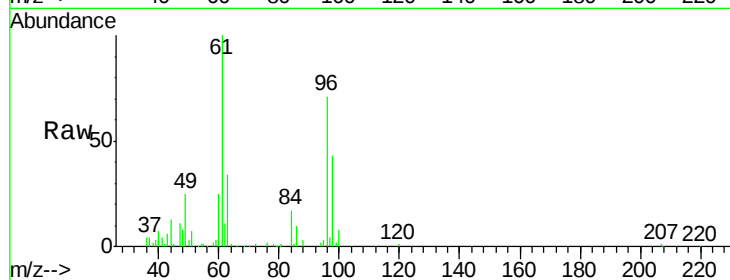
Tot Ion: 96 Resp: 46191

Ion Ratio Lower Upper

96 100

61 141.6 108.2 162.4

98 61.4 52.2 78.2



#22

Diisopropyl ether

Concen: 21.831 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion: 45 Resp: 171329

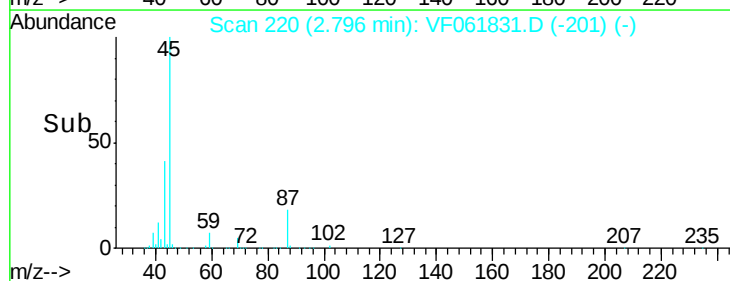
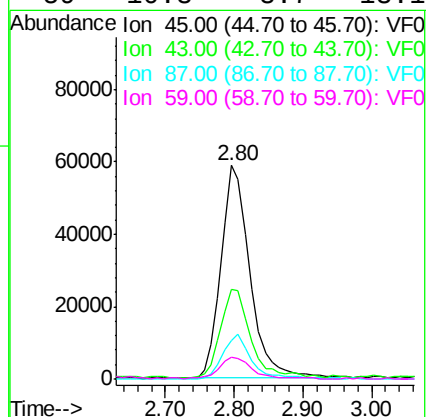
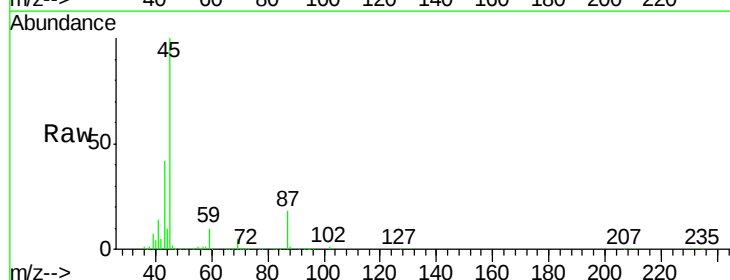
Ion Ratio Lower Upper

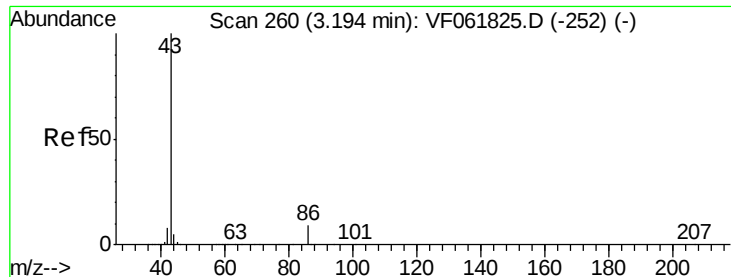
45 100

43 41.7 31.4 47.2

87 18.1 16.3 24.5

59 10.3 8.7 13.1





#23

Vinyl Acetate

Concen: 100.514 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

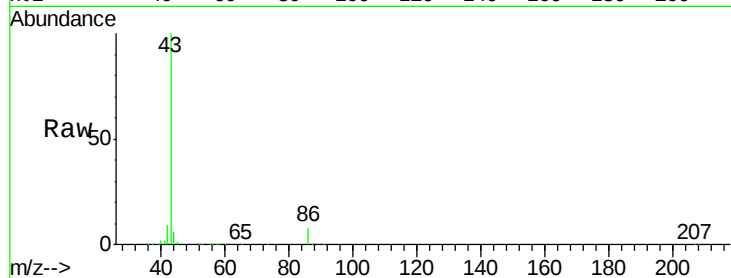
VF0304SBS01

Tot Ion: 43 Resp: 385281

Ion Ratio Lower Upper

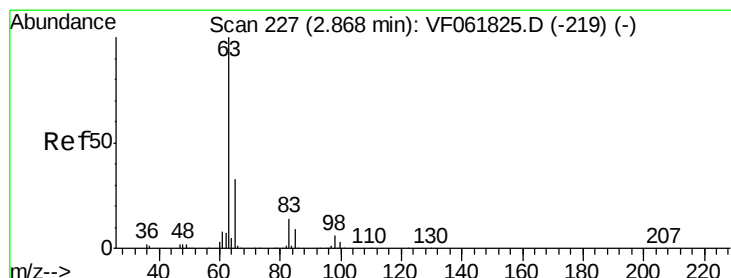
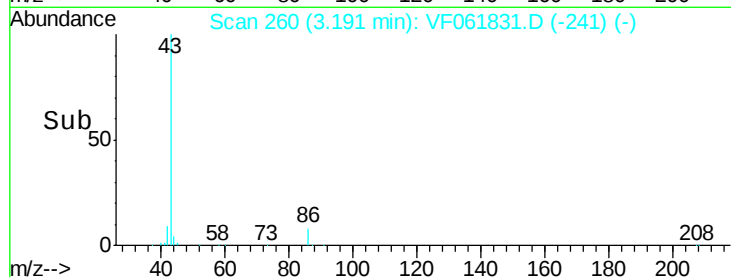
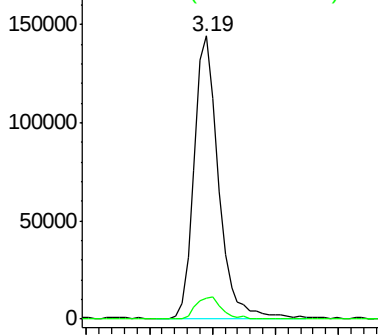
43 100

86 7.5 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: 20.225 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

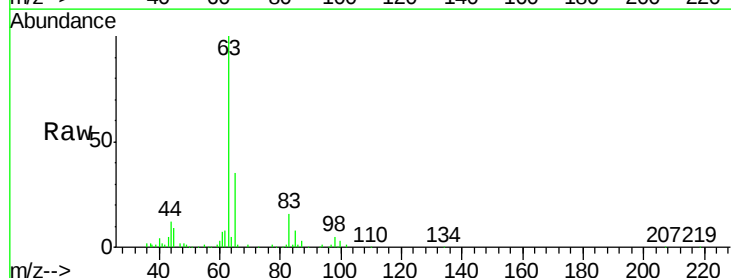
Tgt Ion: 63 Resp: 96055

Ion Ratio Lower Upper

63 100

98 4.8 2.8 8.3

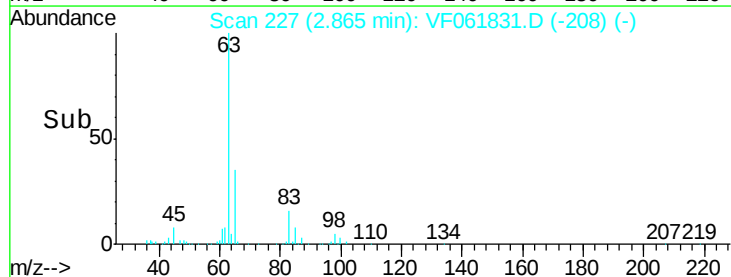
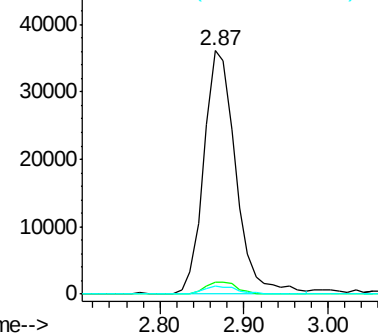
100 3.4 1.8 5.4

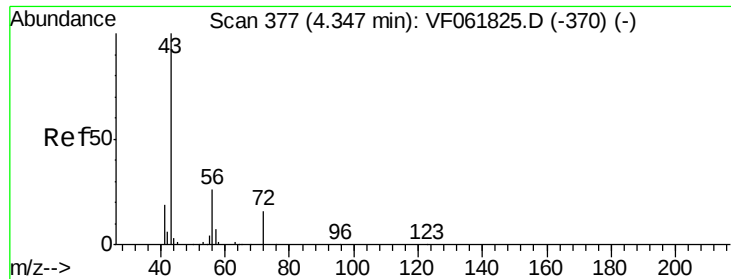


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 91.700 ug/l

RT: 4.34 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

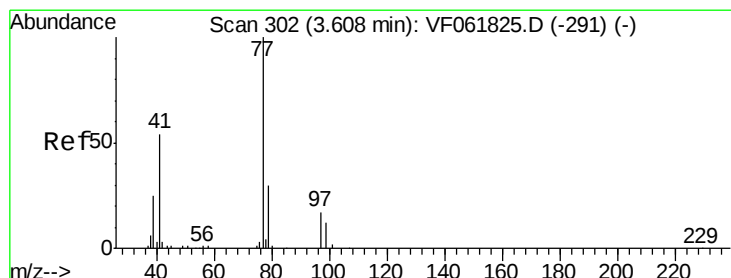
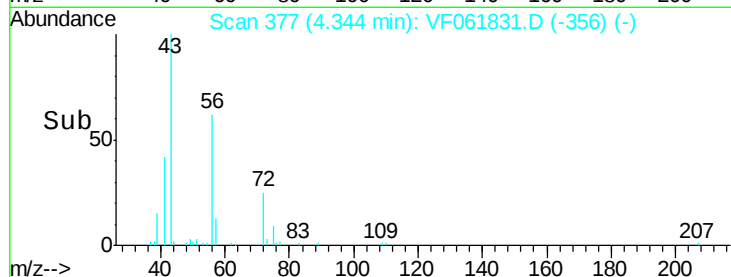
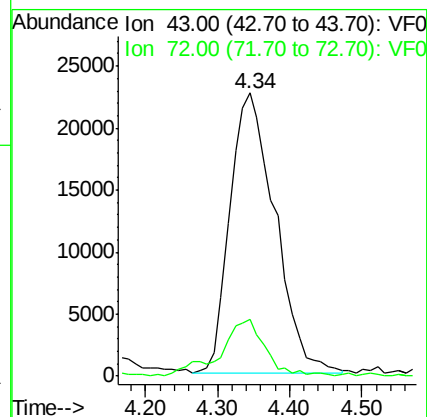
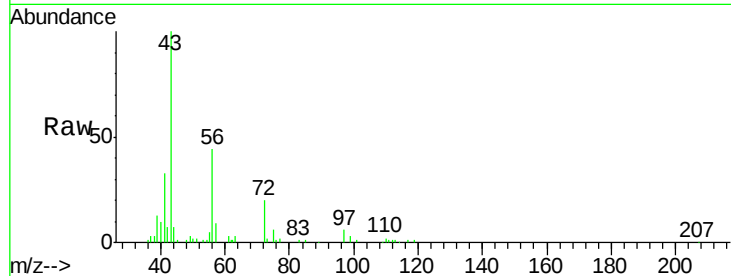
VF0304SBS01

Tot Ion: 43 Resp: 97985

Ion Ratio Lower Upper

43 100

72 20.2 17.1 25.7



#26

2,2-Dichloropropane

Concen: 19.459 ug/l

RT: 3.59 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061831.D

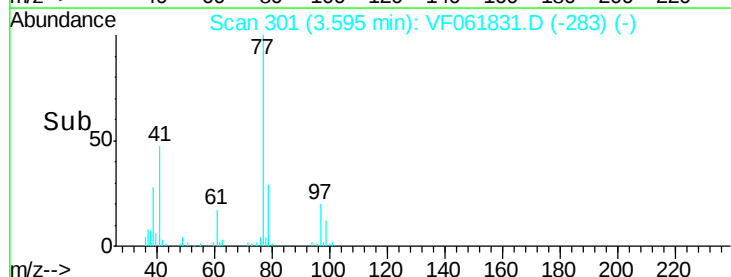
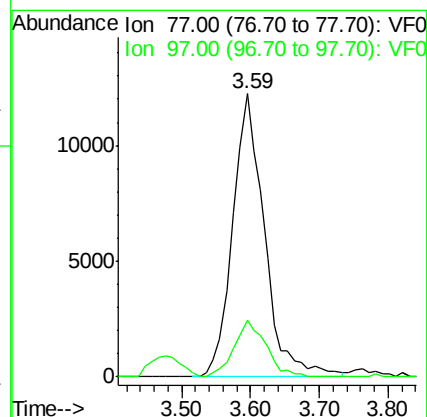
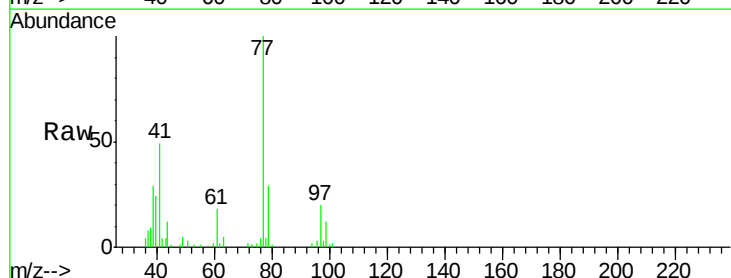
Acq: 4 Mar 2019 21:19

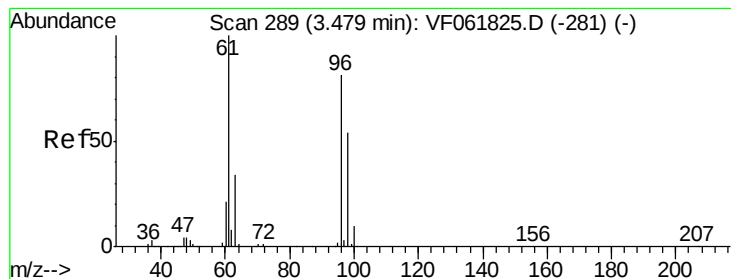
Tgt Ion: 77 Resp: 39146

Ion Ratio Lower Upper

77 100

97 20.2 11.7 35.0





#27

cis-1,2-Dichloroethene

Concen: 18.137 ug/l

RT: 3.48 min Scan# 289

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

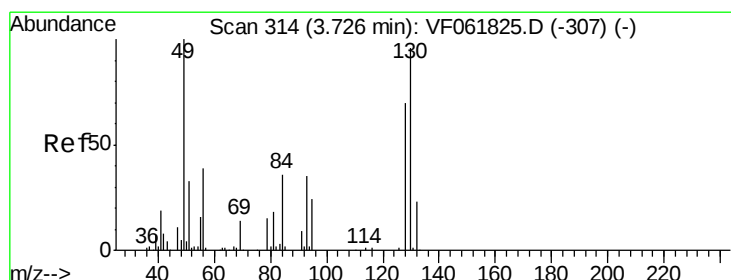
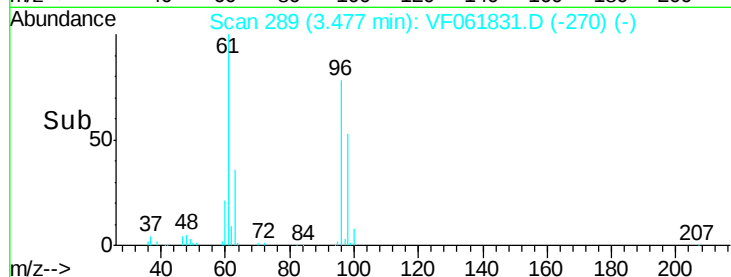
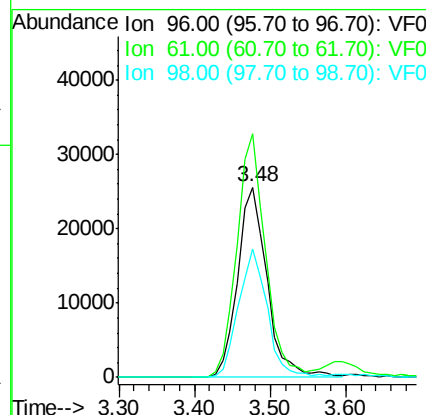
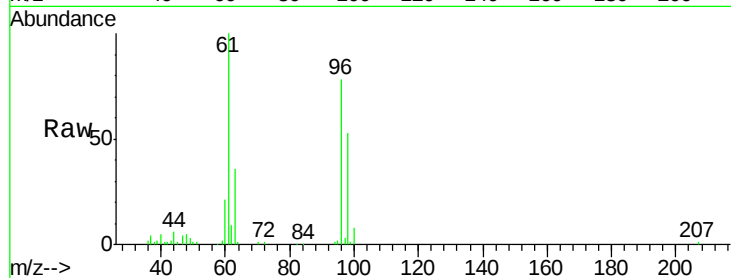
Tot Ion: 96 Resp: 68950

Ion Ratio Lower Upper

96 100

61 127.8 0.0 241.6

98 67.4 0.0 130.2



#28

Bromochloromethane

Concen: 18.008 ug/l

RT: 3.71 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

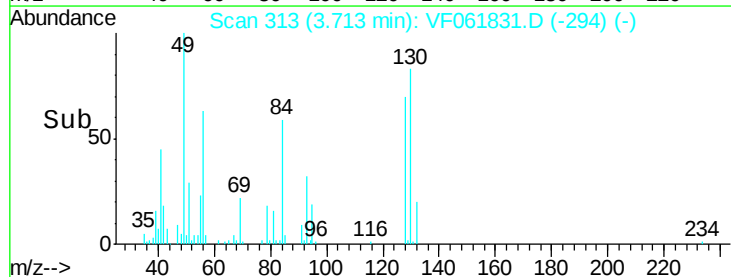
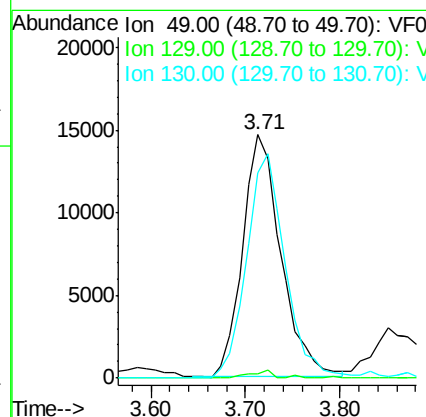
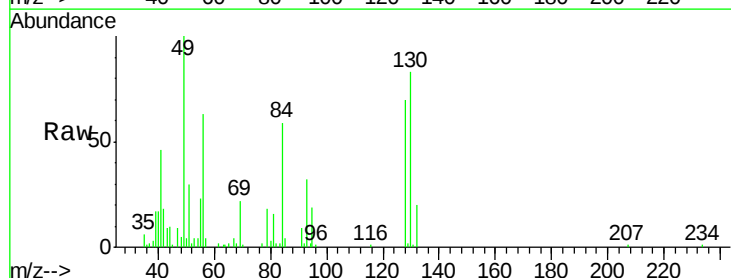
Tgt Ion: 49 Resp: 41035

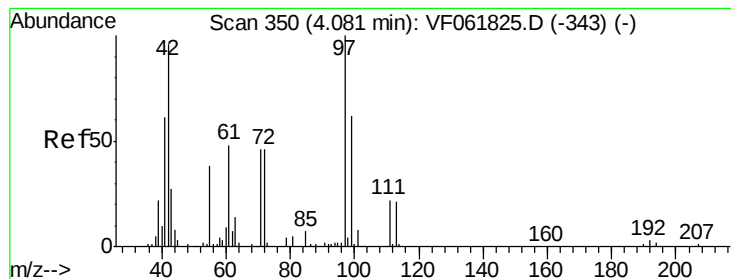
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.4

130 84.3 77.7 116.5





#29

Tetrahydrofuran

Concen: 94.519 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

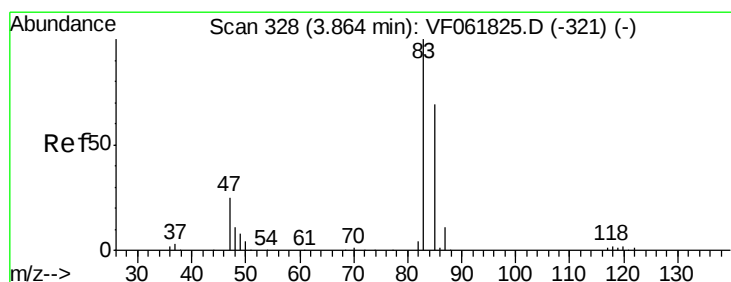
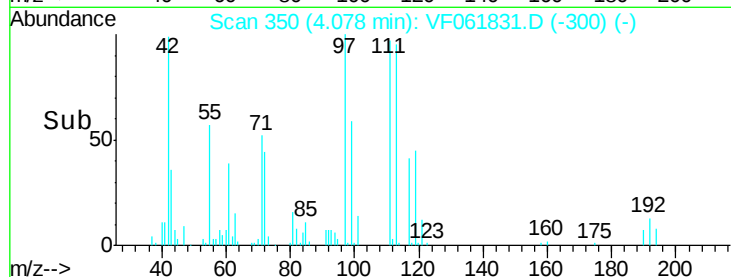
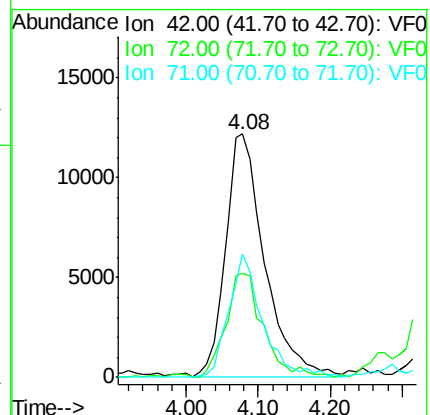
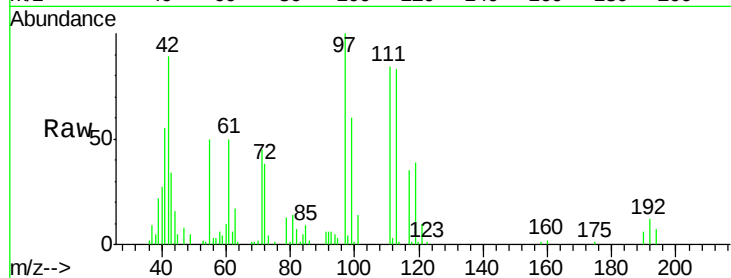
Tot Ion: 42 Resp: 45904

Ion Ratio Lower Upper

42 100

72 40.8 35.2 52.8

71 43.8 32.9 49.3



#30

Chloroform

Concen: 19.546 ug/l

RT: 3.86 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF061831.D

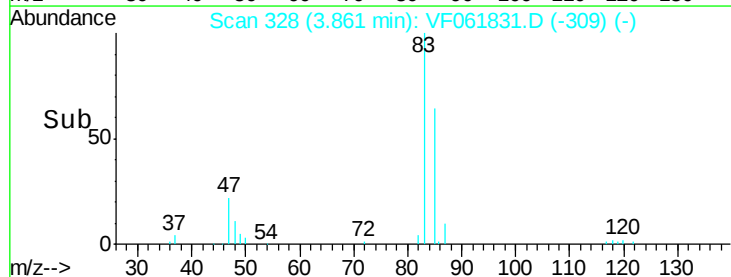
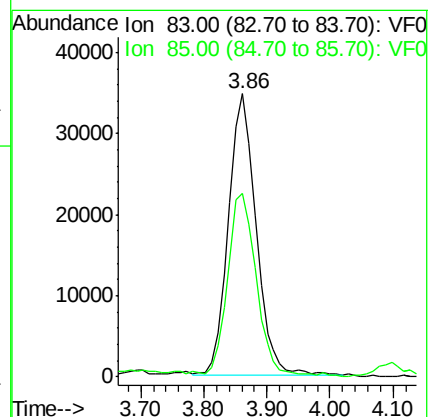
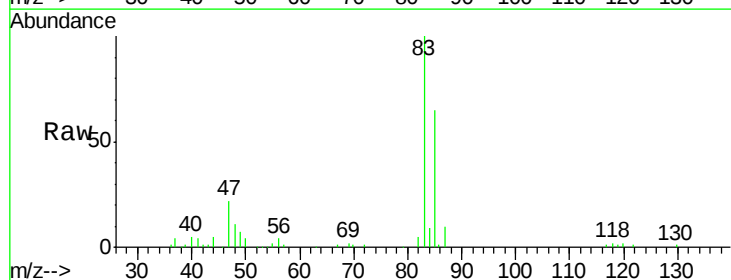
Acq: 4 Mar 2019 21:19

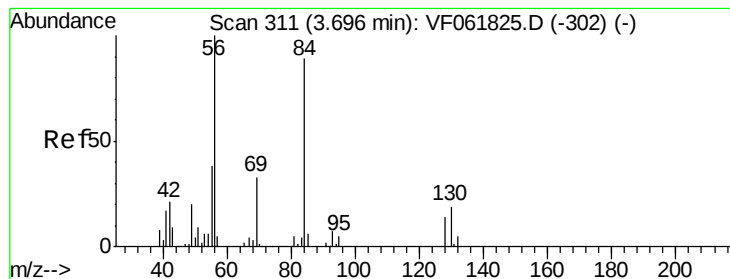
Tgt Ion: 83 Resp: 105565

Ion Ratio Lower Upper

83 100

85 65.1 51.1 76.7





#31

Cvclohexane

Concen: 10.959 ug/l

RT: 3.68 min Scan# 310

Delta R.T. -0.02 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBSD01

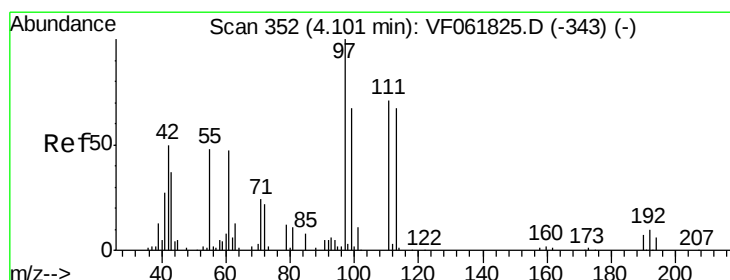
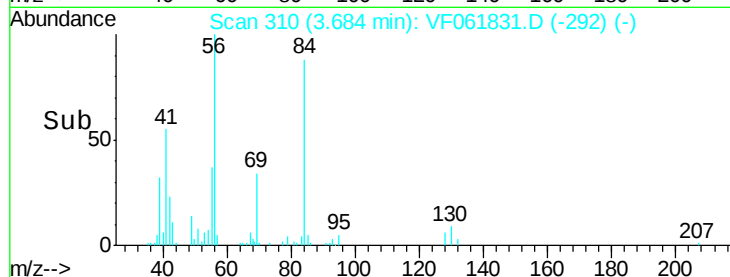
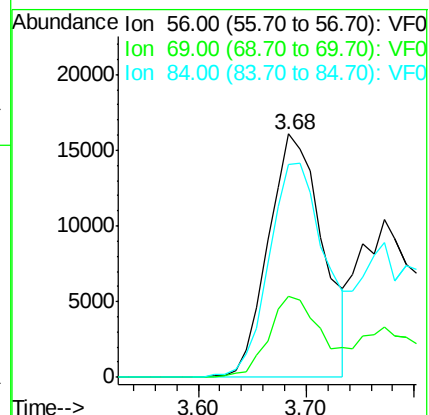
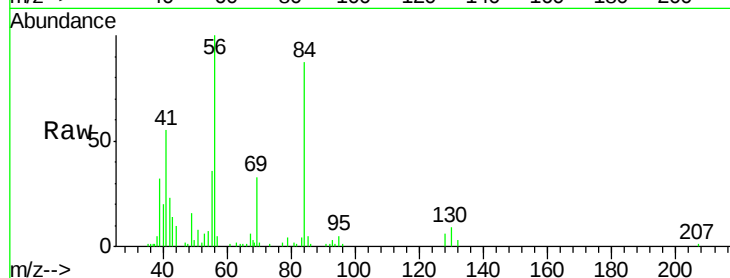
Tot Ion: 56 Resp: 56343

Ion Ratio Lower Upper

56 100

69 33.4 23.8 35.8

84 87.2 68.6 103.0



#32

1,1,1-Trichloroethane

Concen: 16.634 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

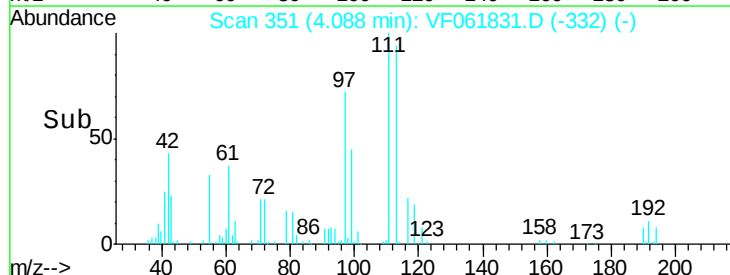
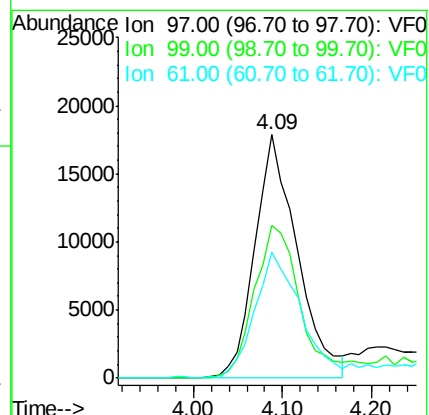
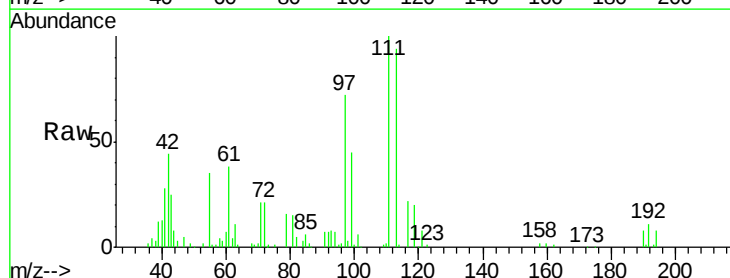
Tgt Ion: 97 Resp: 58851

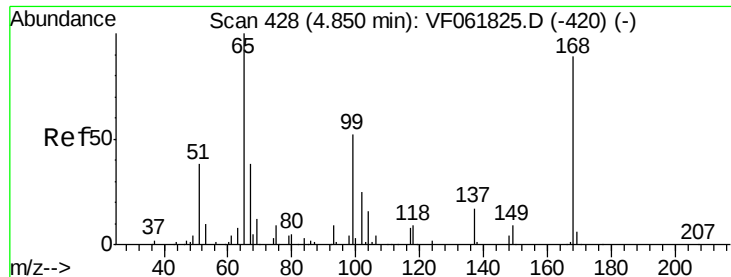
Ion Ratio Lower Upper

97 100

99 62.8 52.2 78.2

61 51.9 39.2 58.8





#33

1,2-Dichloroethane-d4

Concen: 49.772 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

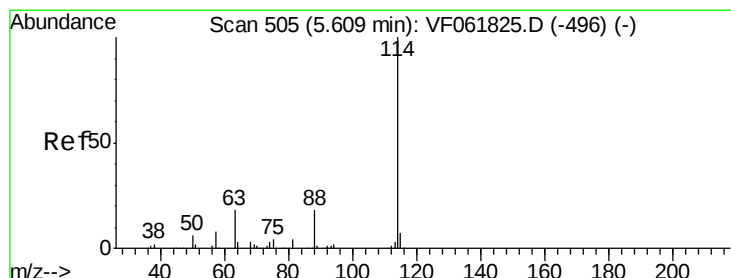
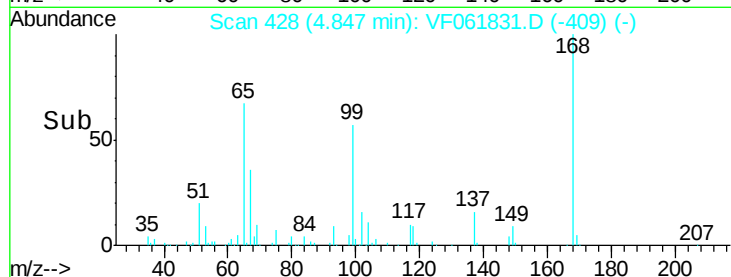
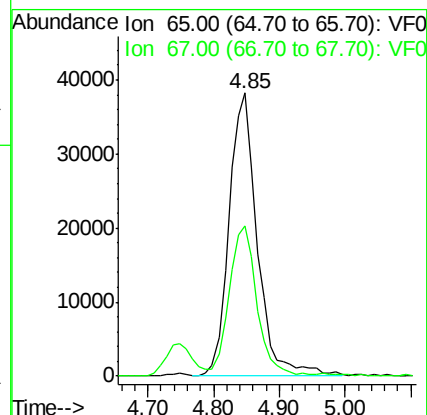
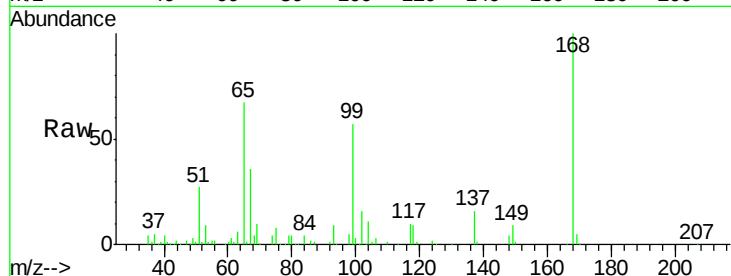
VF0304SBS01

Tot Ion: 65 Resp: 113480

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

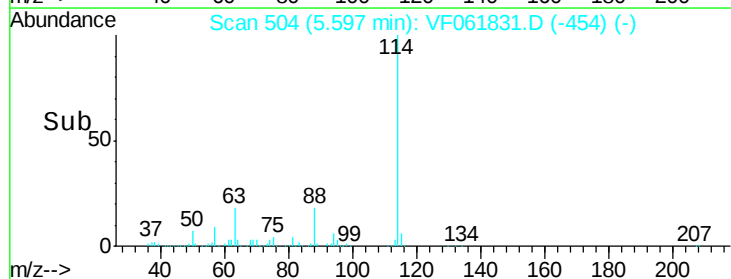
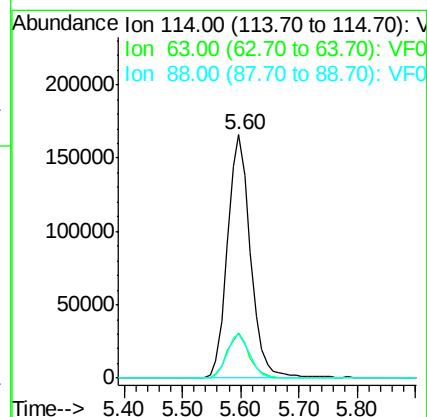
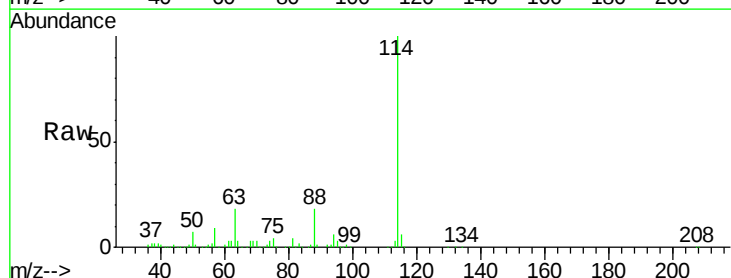
Tgt Ion: 114 Resp: 455386

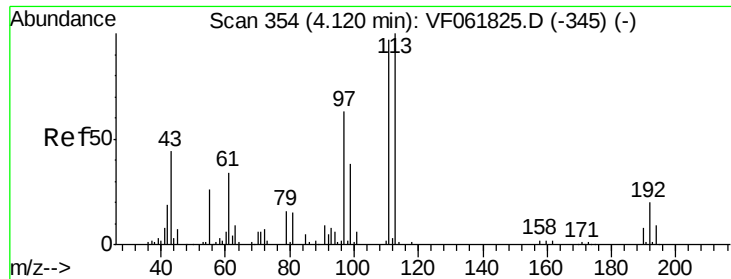
Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.6

88 17.8 0.0 34.4

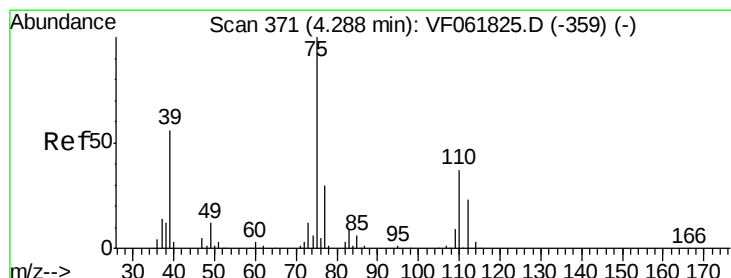
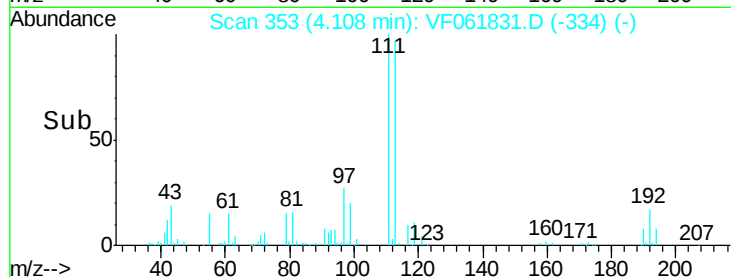
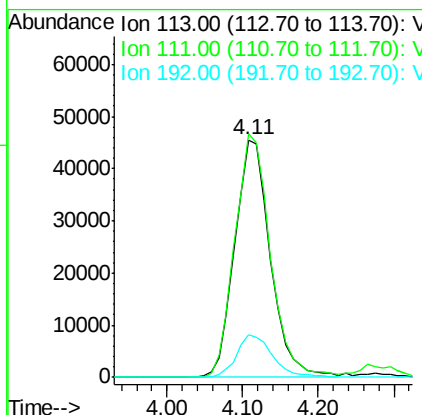
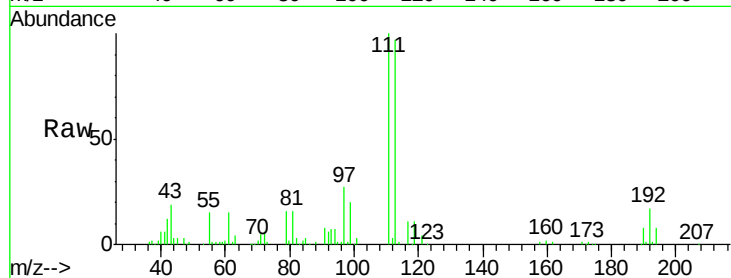




#35
 Dibromofluoromethane
 Concen: 43.818 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

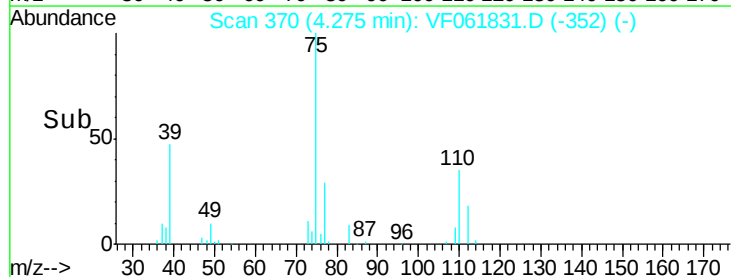
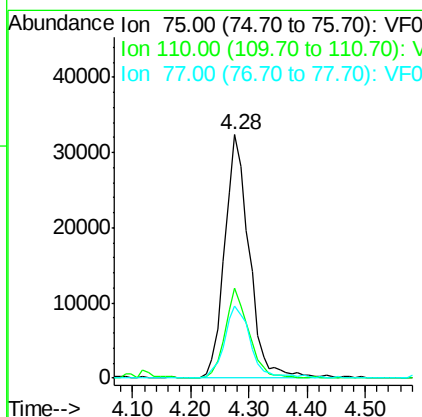
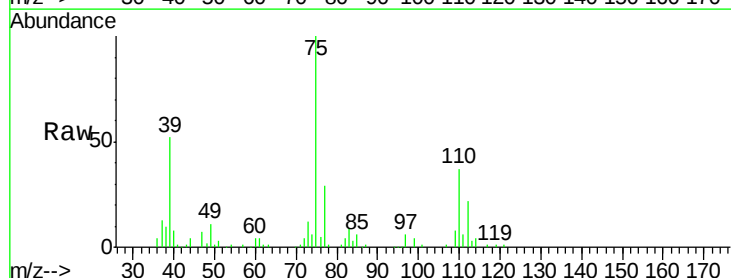
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBSD01

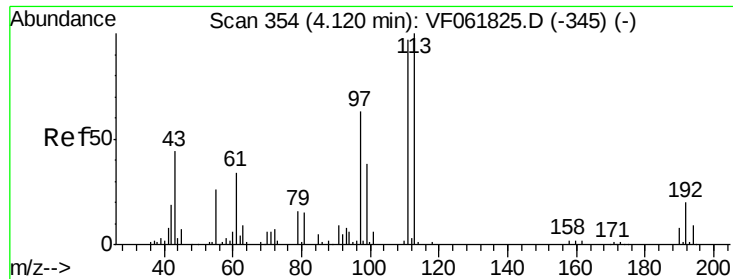
Tot Ion:113 Resp: 148182
 Ion Ratio Lower Upper
 113 100
 111 102.6 78.8 118.2
 192 18.4 13.4 20.0



#36
 1,1-Dichloropropene
 Concen: 21.046 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.02 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion: 75 Resp: 94943
 Ion Ratio Lower Upper
 75 100
 110 37.1 20.5 61.6
 77 29.5 27.0 40.4

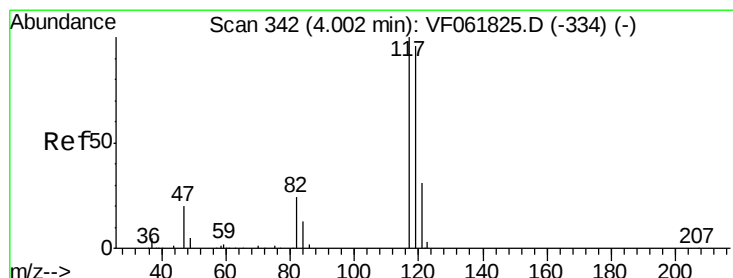
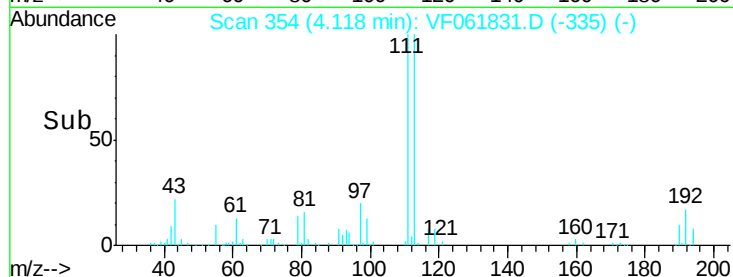
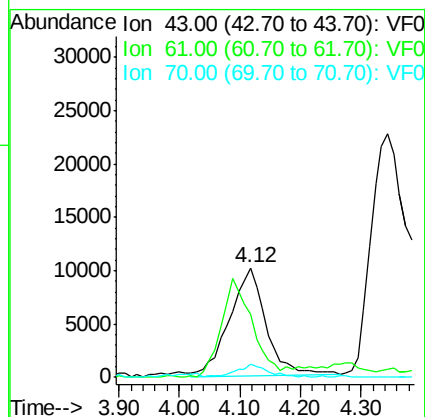
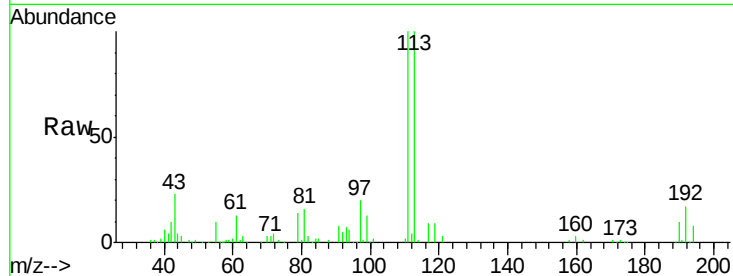




#37
Ethyl Acetate
Concen: 20.372 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

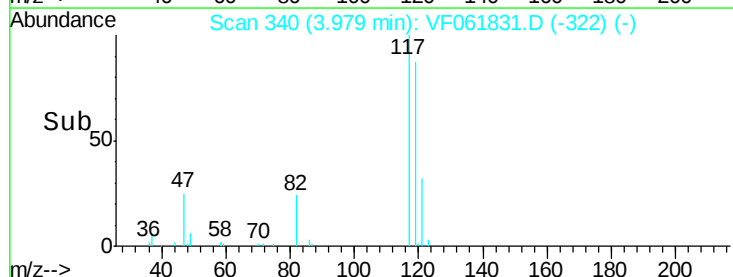
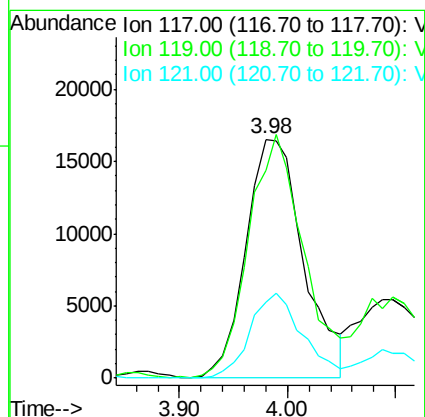
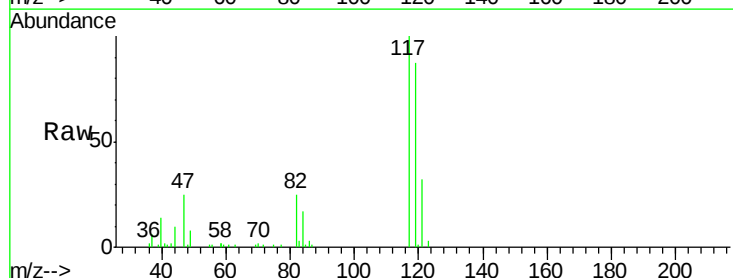
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

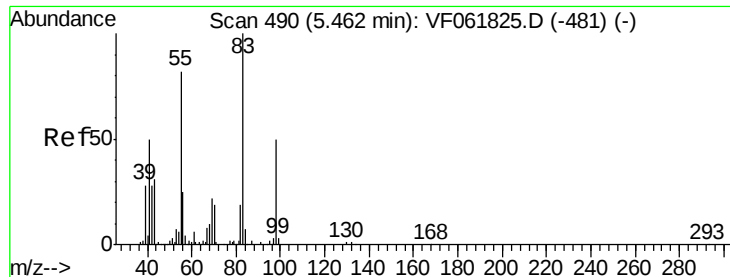
Tot Ion: 43 Resp: 42685
Ion Ratio Lower Upper
43 100
61 57.2 45.7 68.5
70 11.6 8.5 12.7



#38
Carbon Tetrachloride
Concen: 19.807 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion: 117 Resp: 61699
Ion Ratio Lower Upper
117 100
119 87.1 75.6 113.4
121 32.0 25.2 37.8

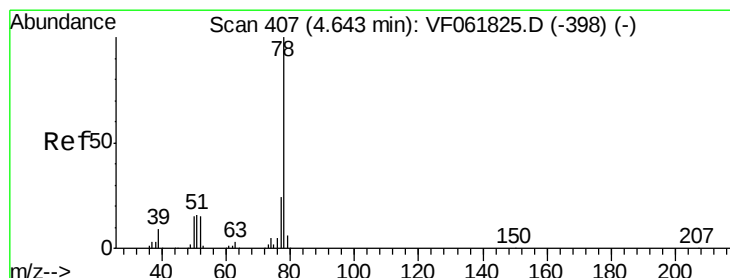
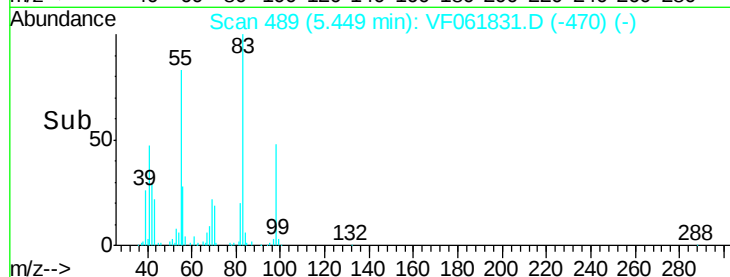
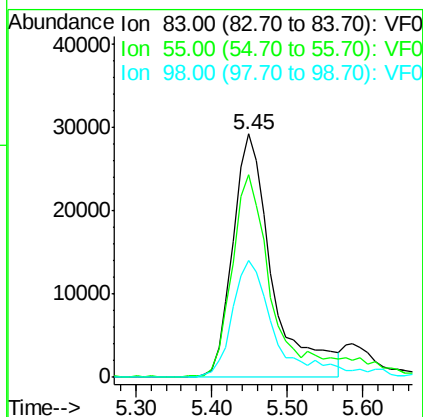
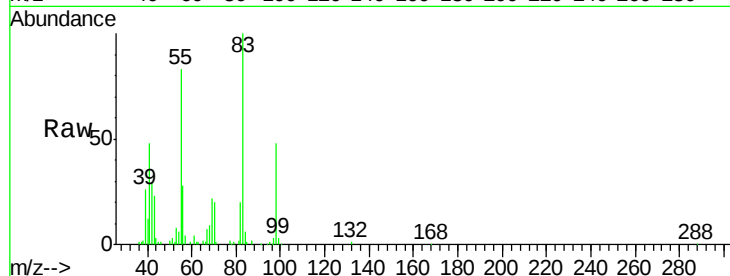




#39
Methvlcvclohexane
Concen: 19.878 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

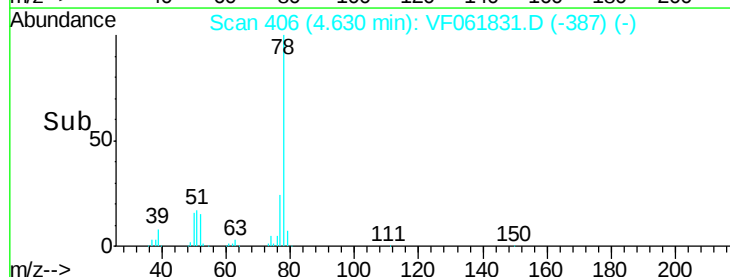
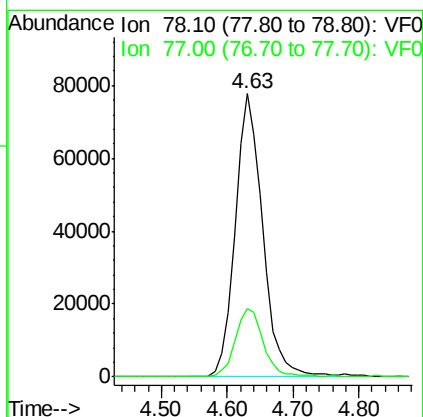
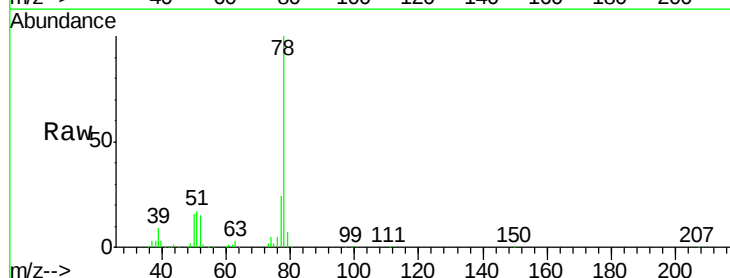
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

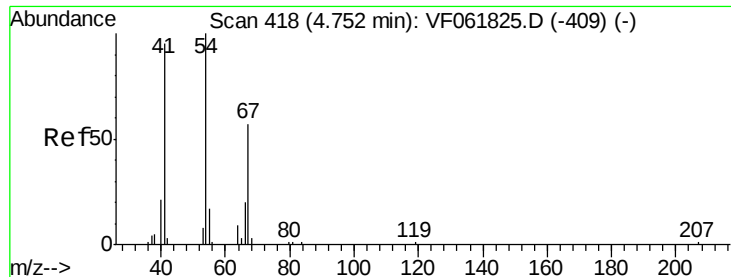
Tot Ion: 83 Resp: 106054
Ion Ratio Lower Upper
83 100
55 83.1 66.6 99.8
98 48.3 40.4 60.6



#40
Benzene
Concen: 19.274 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion: 78 Resp: 227424
Ion Ratio Lower Upper
78 100
77 24.0 19.0 28.6

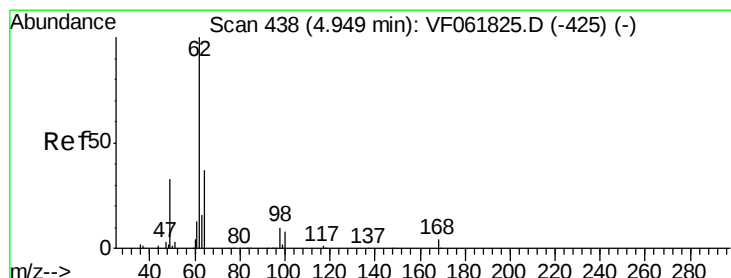
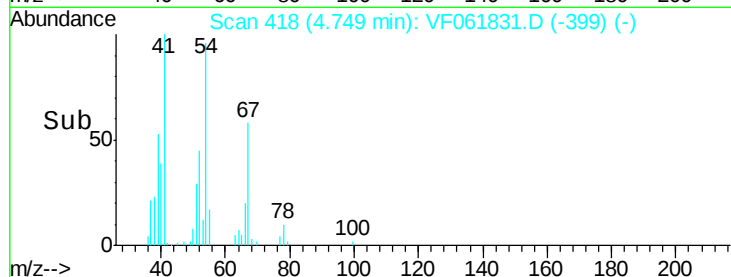
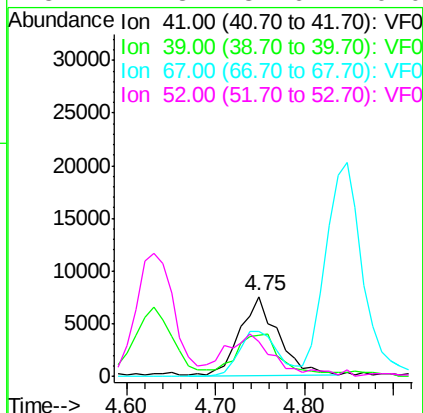
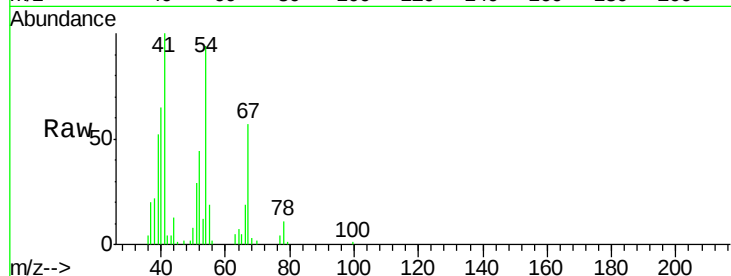




#41
Methacrylonitrile
Concen: 20.878 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

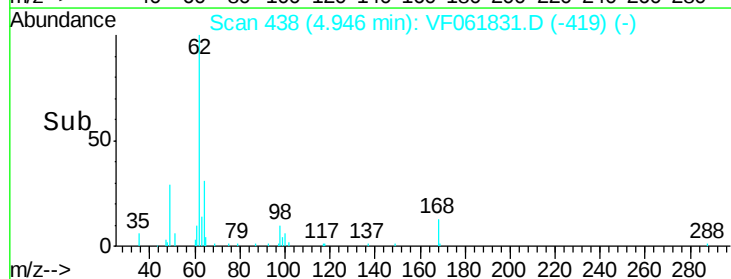
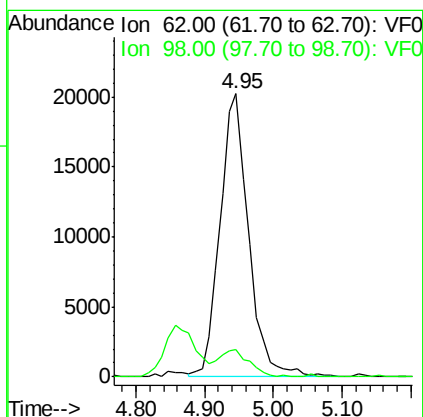
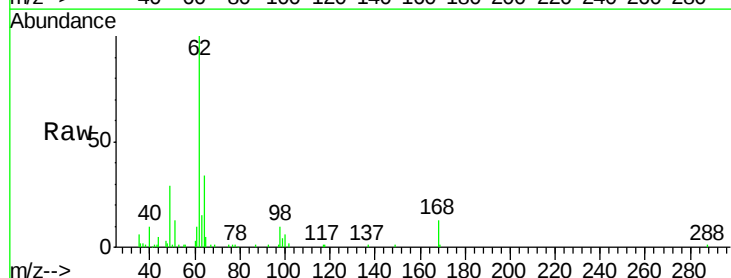
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

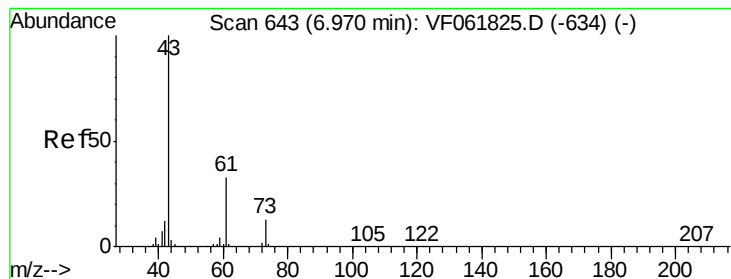
Tot Ion:	41	Resp:	22372
Ion	Ratio	Lower	Upper
41	100		
39	52.2	45.3	67.9
67	57.1	49.3	73.9
52	44.3	32.6	49.0



#42
1,2-Dichloroethane
Concen: 20.588 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion:	62	Resp:	58111
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	26.0



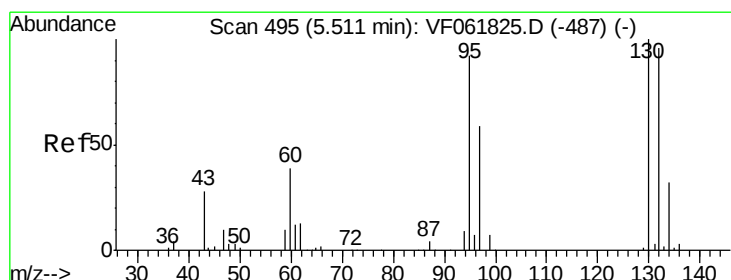
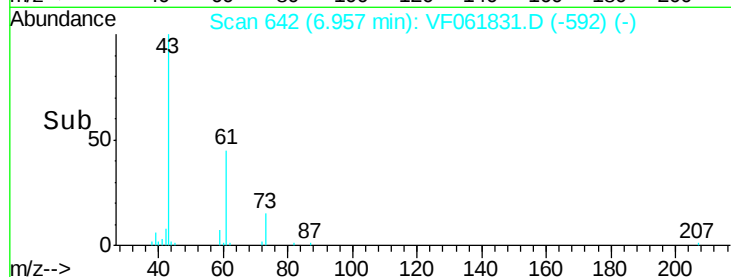
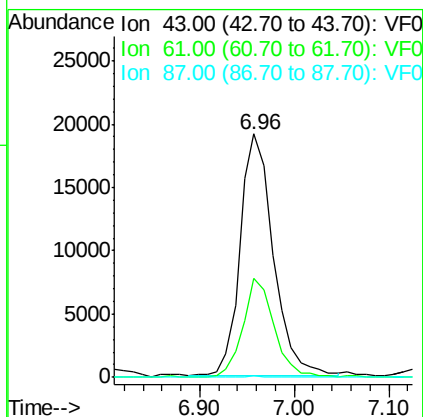
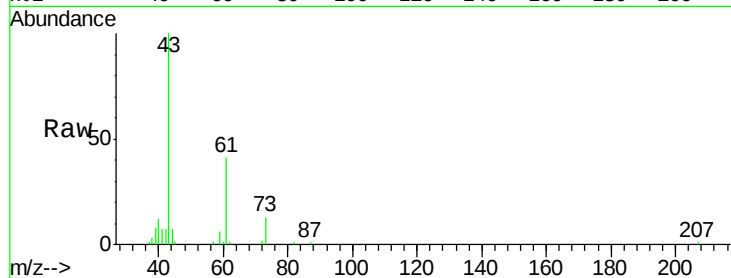


#43

Isopropyl Acetate
 Concen: 18.557 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

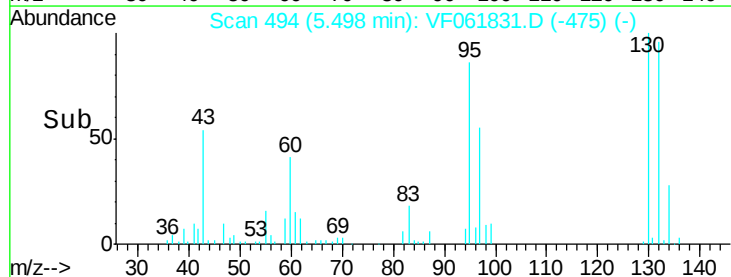
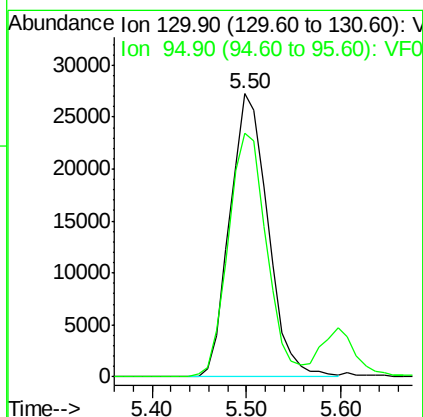
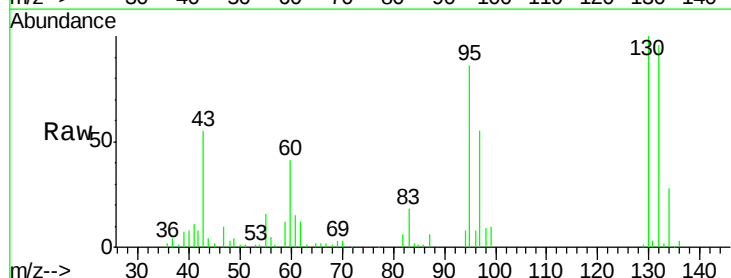
Tot Ion: 43 Resp: 46025
 Ion Ratio Lower Upper
 43 100
 61 40.7 25.8 38.6#
 87 0.6 0.4 0.6#

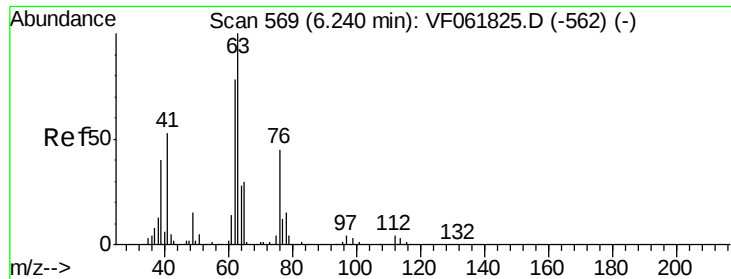


#44

Trichloroethene
 Concen: 19.877 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion: 130 Resp: 75845
 Ion Ratio Lower Upper
 130 100
 95 86.1 0.0 179.4





#45

1,2-Dichloropropane

Concen: 19.499 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

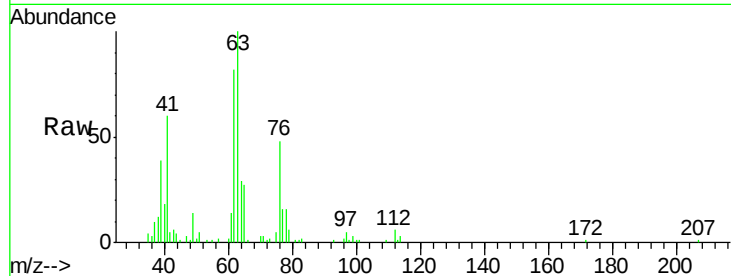
VF0304SBSD01

Tot Ion: 63 Resp: 55615

Ion Ratio Lower Upper

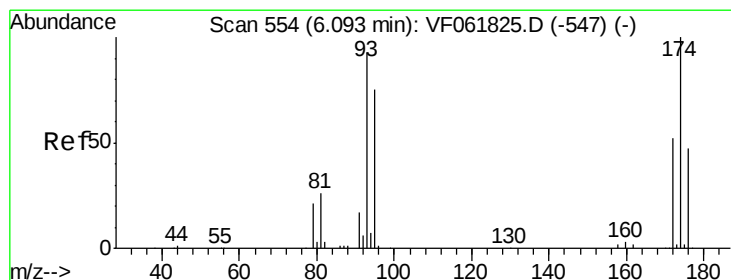
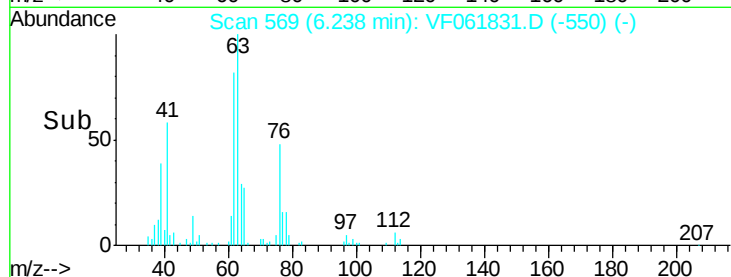
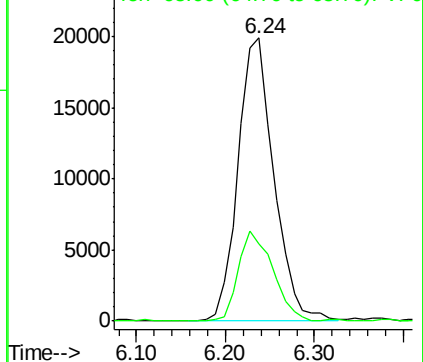
63 100

65 27.4 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 20.101 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.02 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

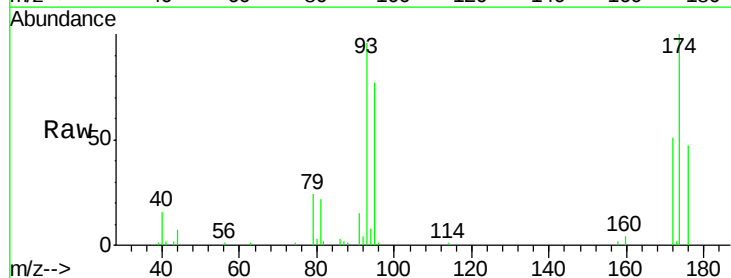
Tgt Ion: 93 Resp: 35299

Ion Ratio Lower Upper

93 100

95 80.5 69.0 103.6

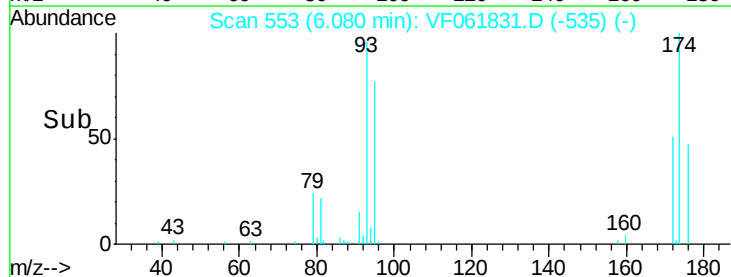
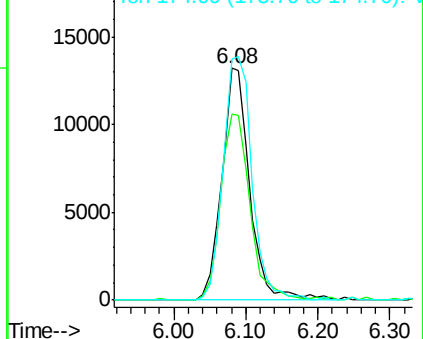
174 104.0 99.3 148.9

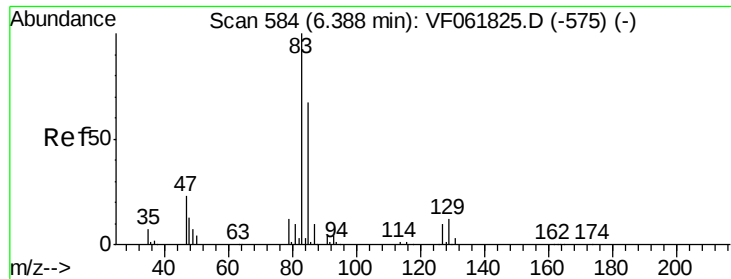


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 20.110 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

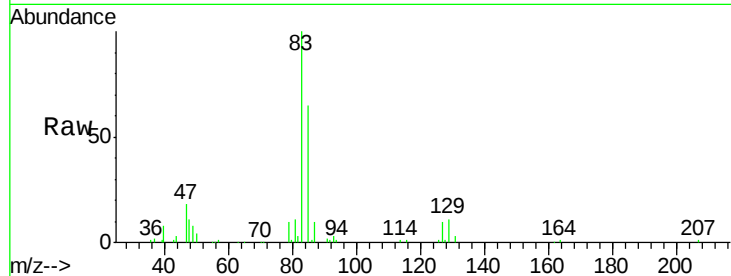
Tot Ion: 83 Resp: 77336

Ion Ratio Lower Upper

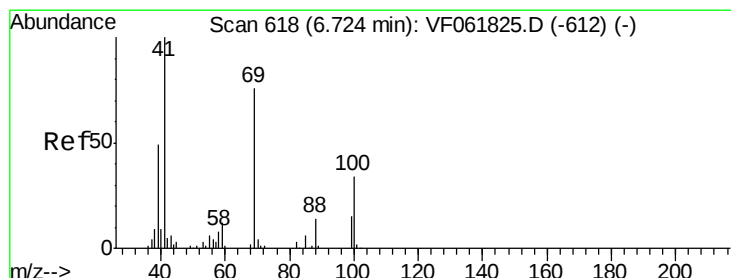
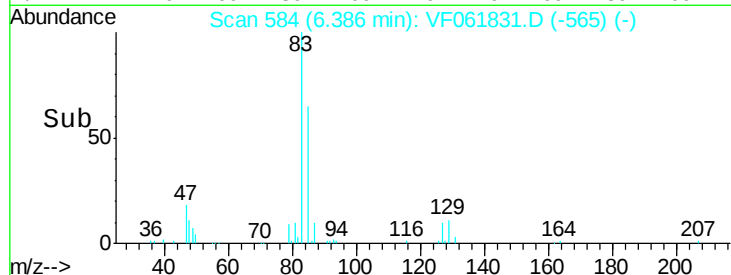
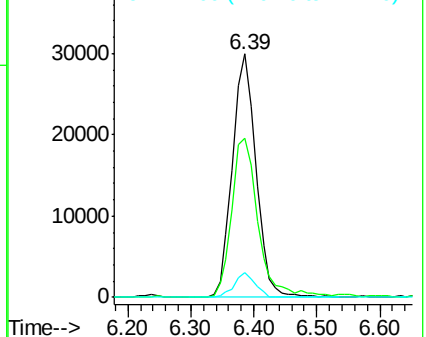
83 100

85 65.3 53.4 80.2

127 10.3 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: 19.408 ug/l

RT: 6.72 min Scan# 618

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

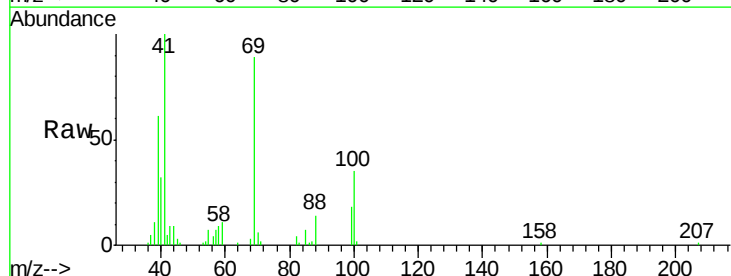
Tgt Ion: 41 Resp: 28967

Ion Ratio Lower Upper

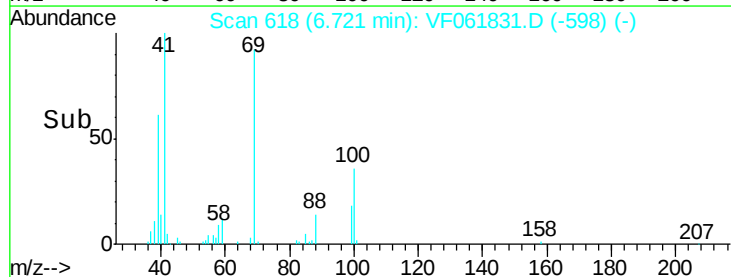
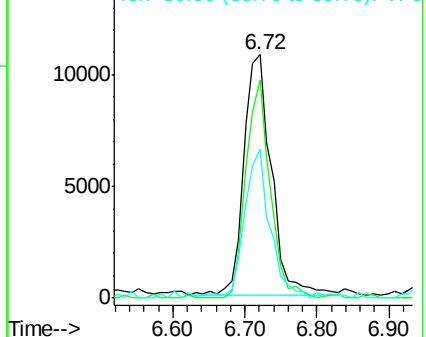
41 100

69 89.4 60.4 90.6

39 61.1 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: 403.968 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

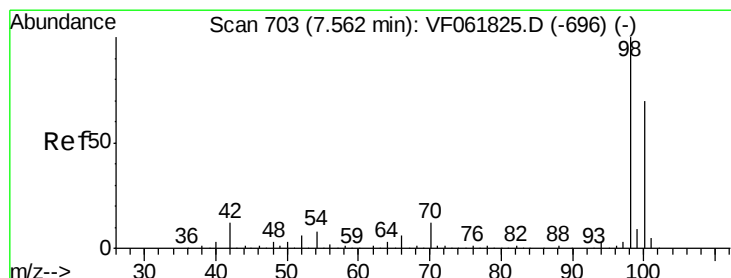
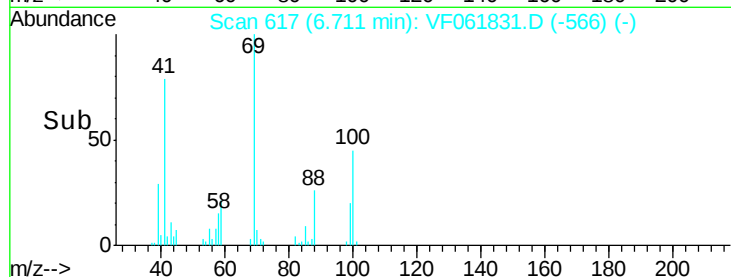
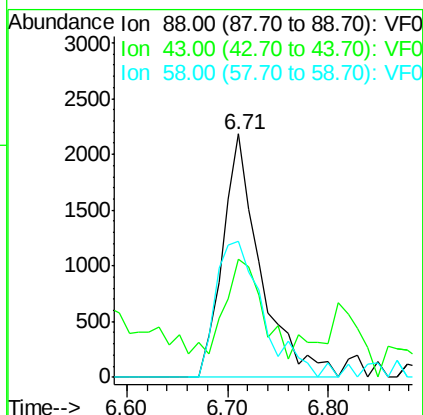
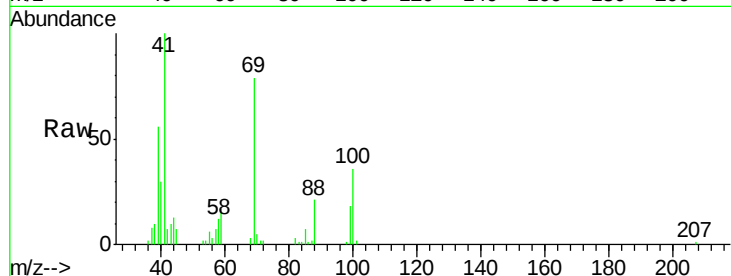
Tot Ion: 88 Resp: 5668

Ion Ratio Lower Upper

88 100

43 48.4 32.3 48.5

58 55.8 59.4 89.2#



#50

Toluene-d8

Concen: 43.581 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061831.D

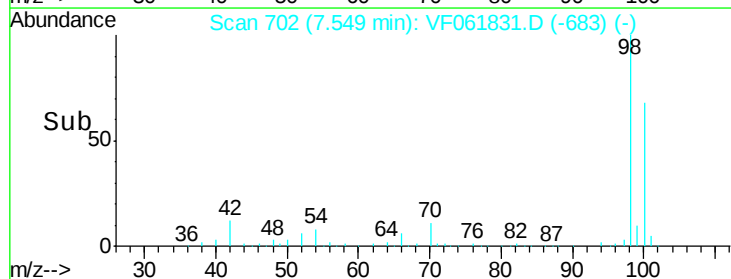
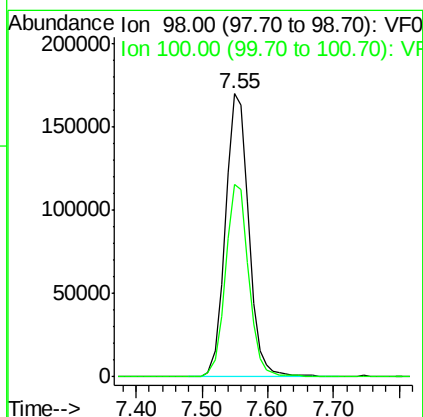
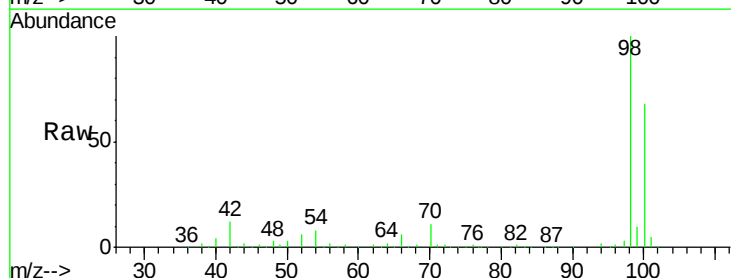
Acq: 4 Mar 2019 21:19

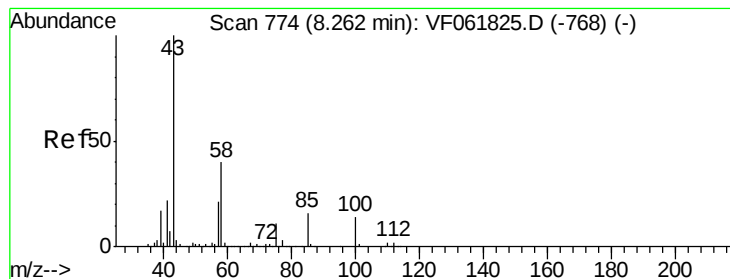
Tgt Ion: 98 Resp: 423674

Ion Ratio Lower Upper

98 100

100 68.1 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 99.684 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

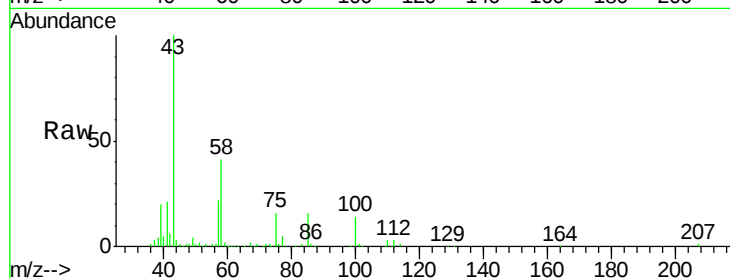
VF0304SBS01

Tot Ion: 43 Resp: 176659

Ion Ratio Lower Upper

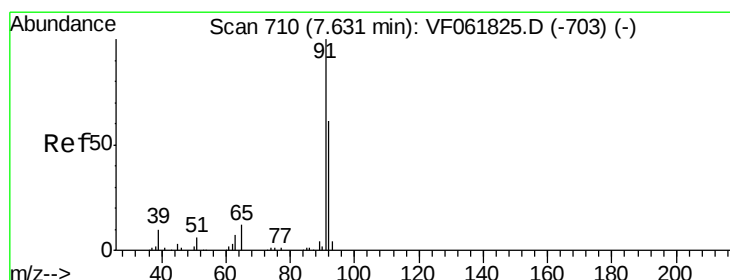
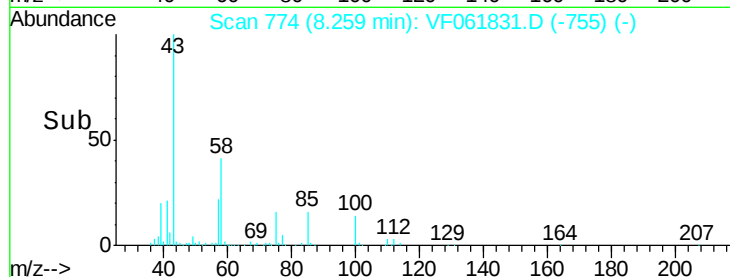
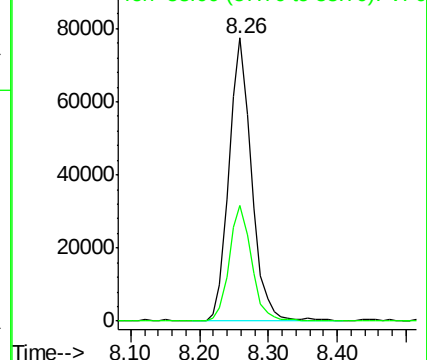
43 100

58 40.7 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: 19.661 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061831.D

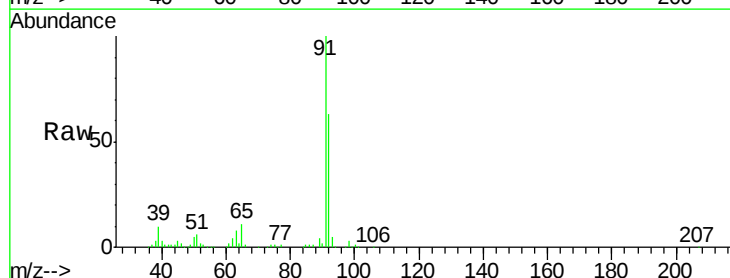
Acq: 4 Mar 2019 21:19

Tgt Ion: 92 Resp: 140702

Ion Ratio Lower Upper

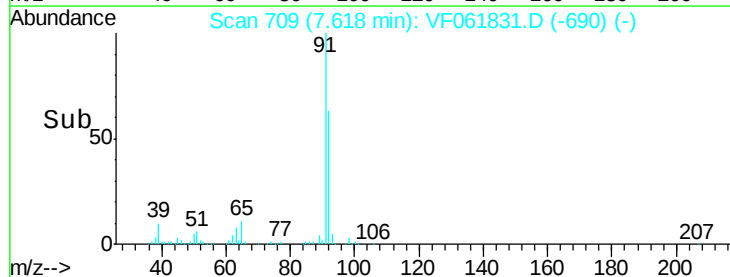
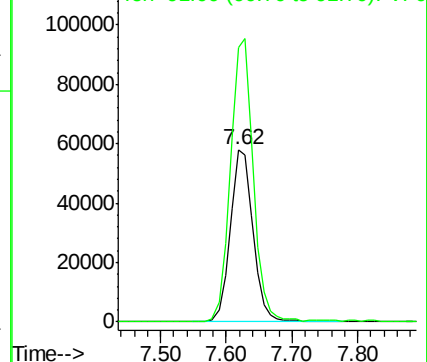
92 100

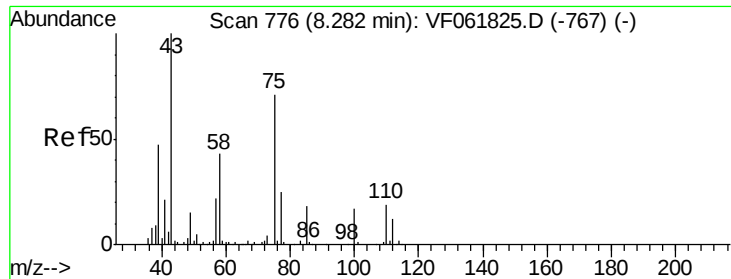
91 159.4 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

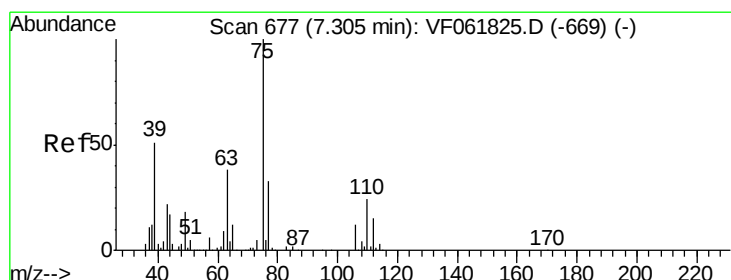
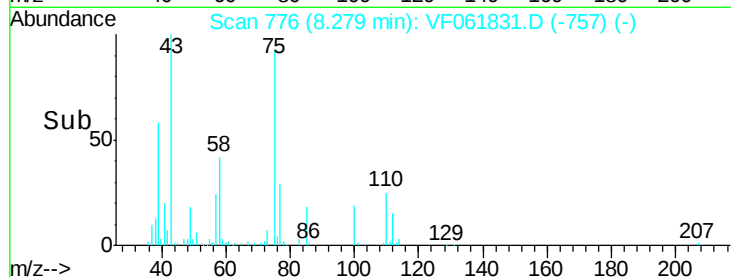
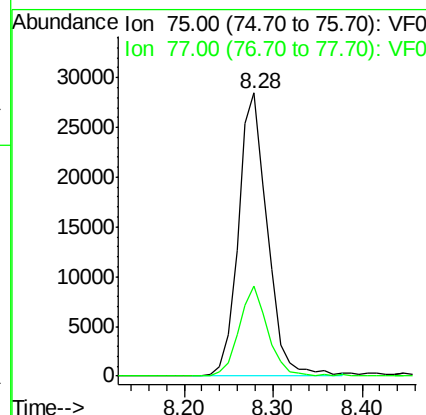
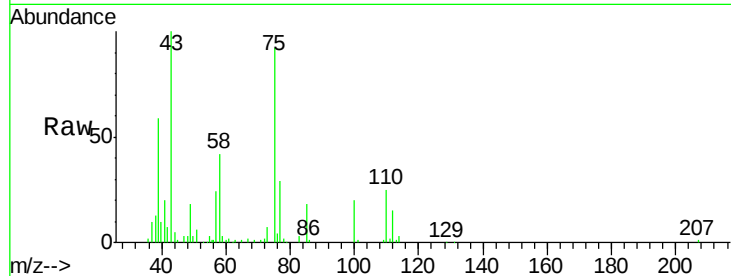




#53
 t-1,3-Dichloropropene
 Concen: 20.161 ug/l
 RT: 8.28 min Scan# 776
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

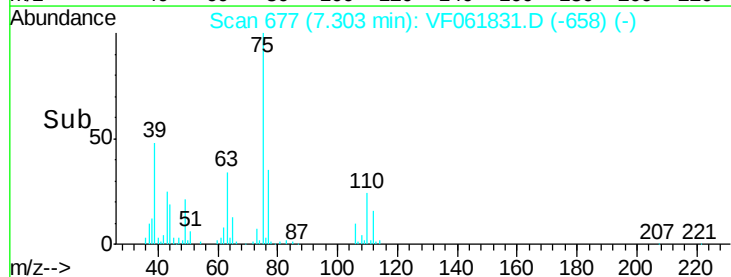
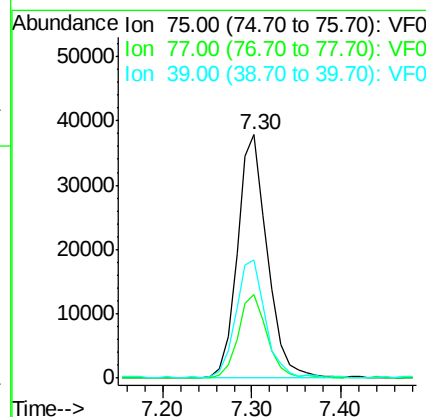
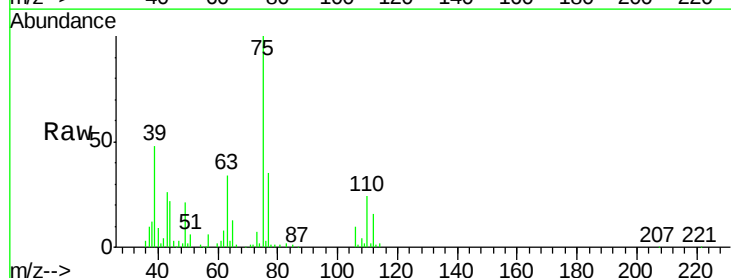
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

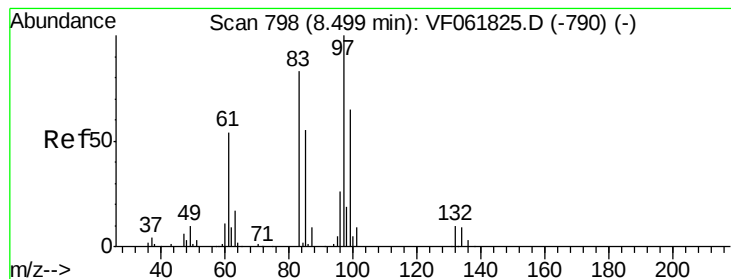
Tot Ion: 75 Resp: 64529
 Ion Ratio Lower Upper
 75 100
 77 31.9 26.2 39.2



#54
 cis-1,3-Dichloropropene
 Concen: 20.766 ug/l
 RT: 7.30 min Scan# 677
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion: 75 Resp: 88531
 Ion Ratio Lower Upper
 75 100
 77 34.6 26.4 39.6
 39 48.3 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 18.797 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 97 Resp: 39523

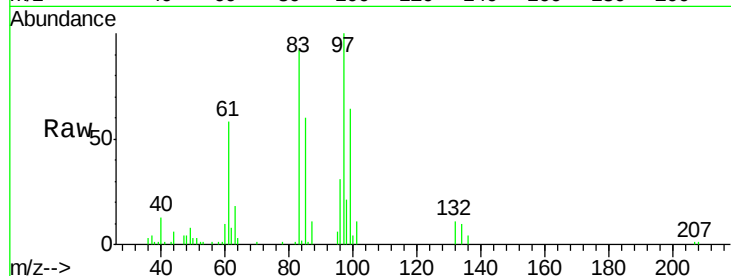
Ion Ratio Lower Upper

97 100

83 91.9 69.2 103.8

85 59.7 43.0 64.4

99 63.8 47.2 70.8

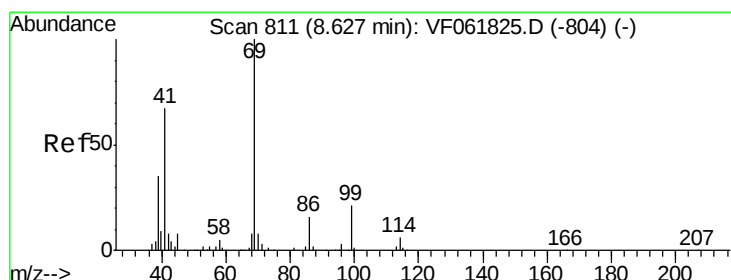
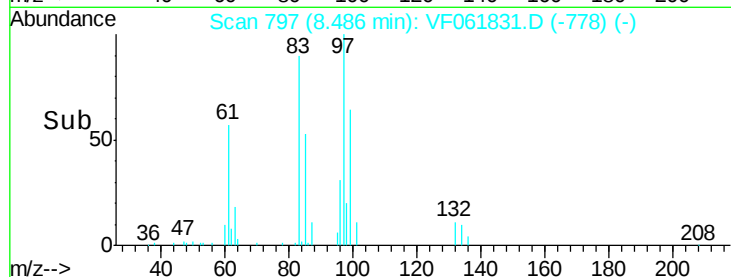
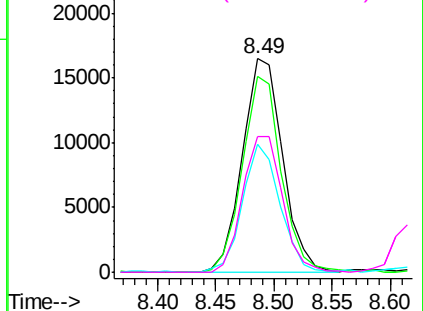


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 20.129 ug/l

RT: 8.62 min Scan# 811

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

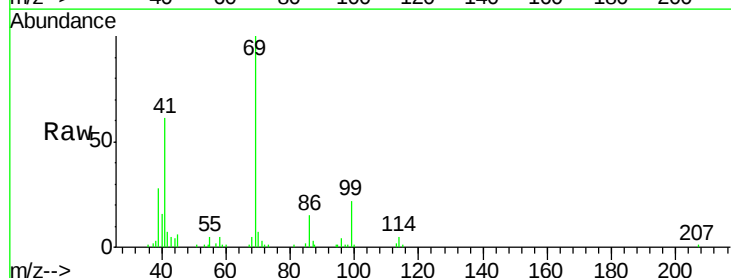
Tgt Ion: 69 Resp: 47121

Ion Ratio Lower Upper

69 100

41 61.0 52.9 79.3

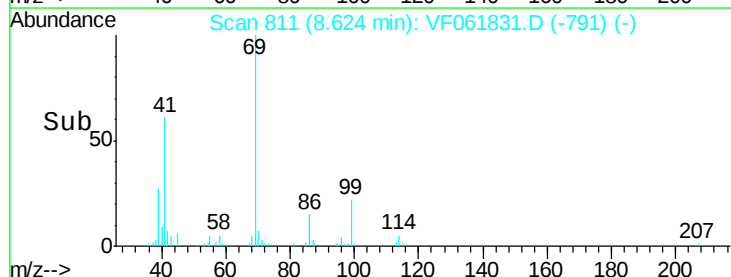
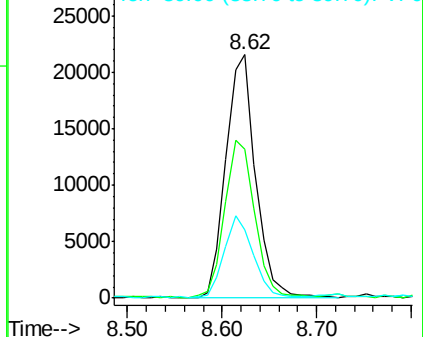
39 28.0 24.5 36.7

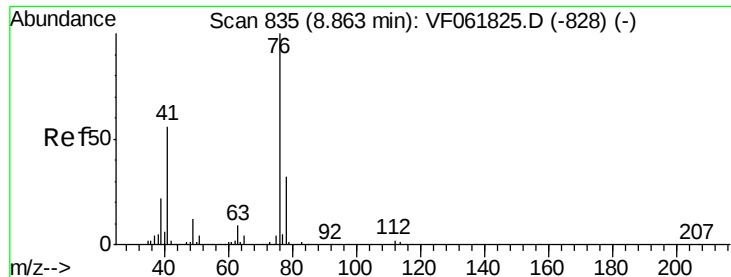


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 18.136 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

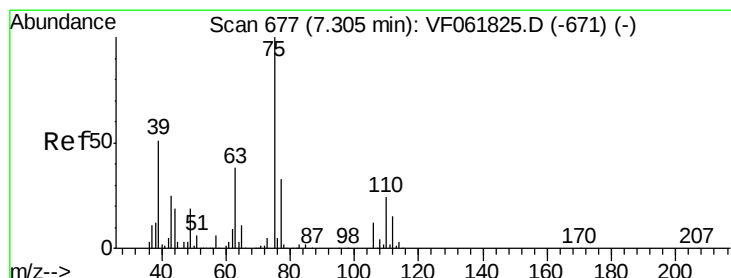
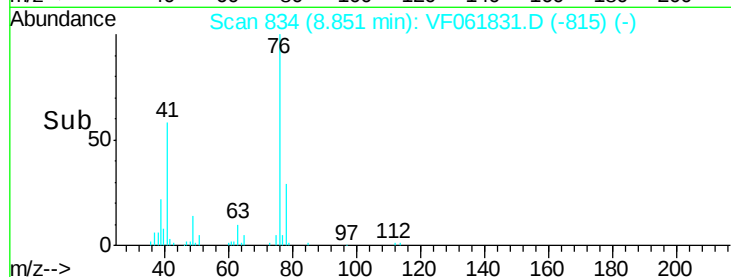
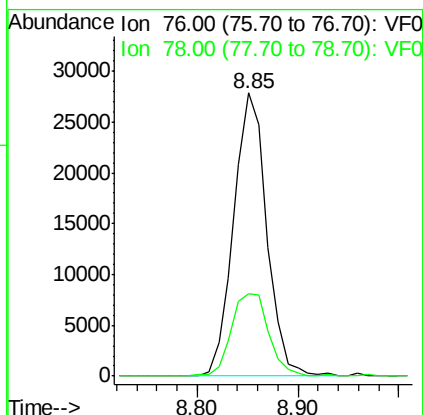
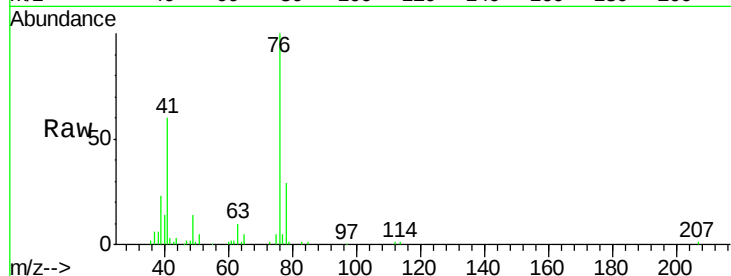
VF0304SBSD01

Tot Ion: 76 Resp: 63647

Ion Ratio Lower Upper

76 100

78 29.2 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 94.623 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061831.D

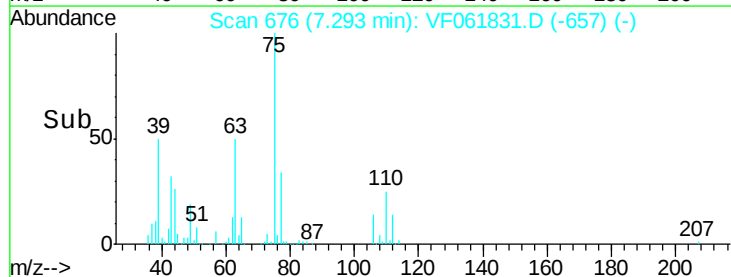
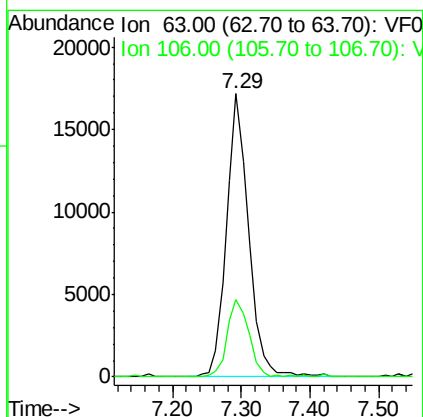
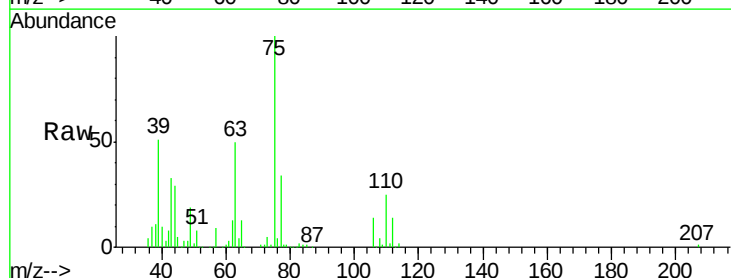
Acq: 4 Mar 2019 21:19

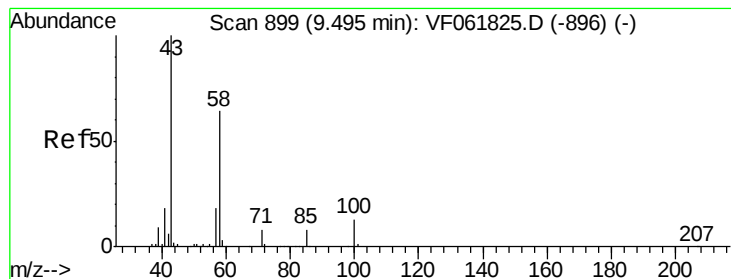
Tgt Ion: 63 Resp: 38218

Ion Ratio Lower Upper

63 100

106 27.3 24.6 36.8





#59

2-Hexanone

Concen: 96.294 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

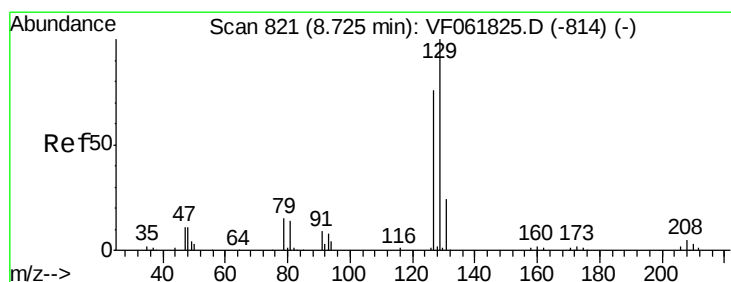
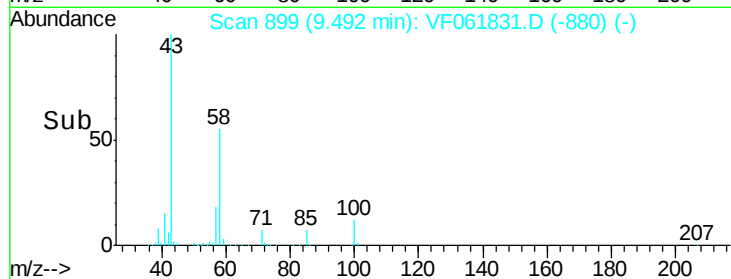
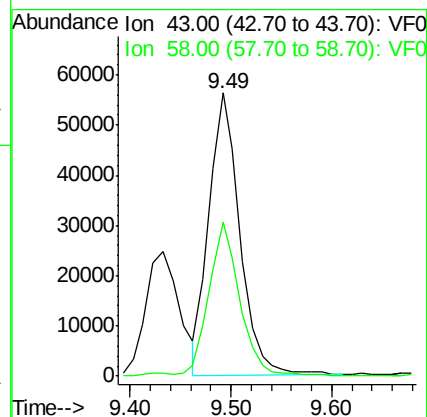
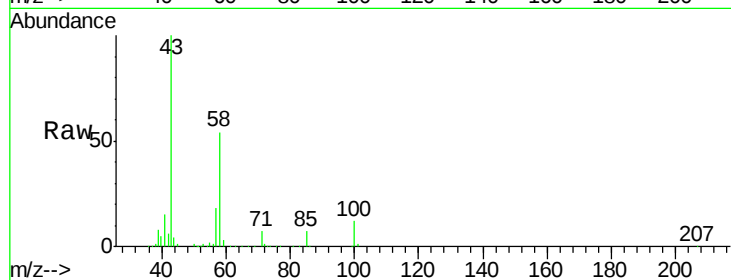
VF0304SBSD01

Tot Ion: 43 Resp: 119622

Ion Ratio Lower Upper

43 100

58 54.4 28.5 85.5



#60

Dibromochloromethane

Concen: 18.296 ug/l

RT: 8.71 min Scan# 820

Delta R.T. -0.01 min

Lab File: VF061831.D

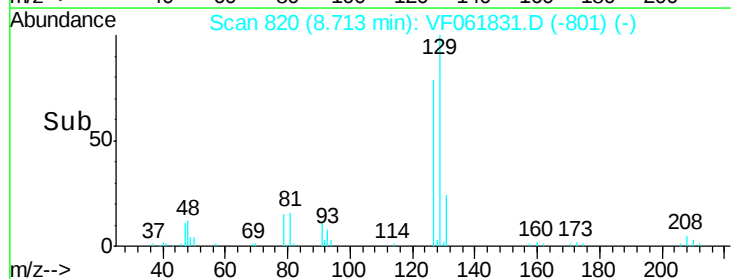
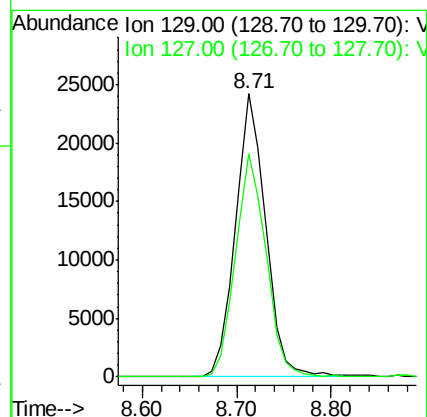
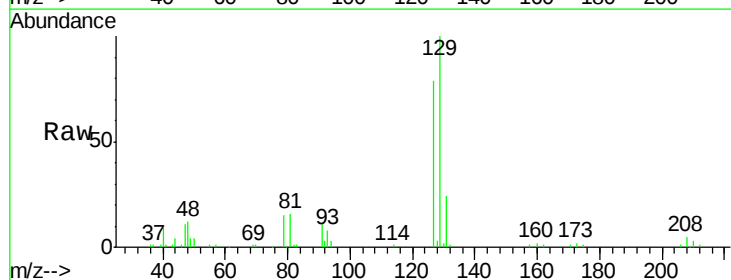
Acq: 4 Mar 2019 21:19

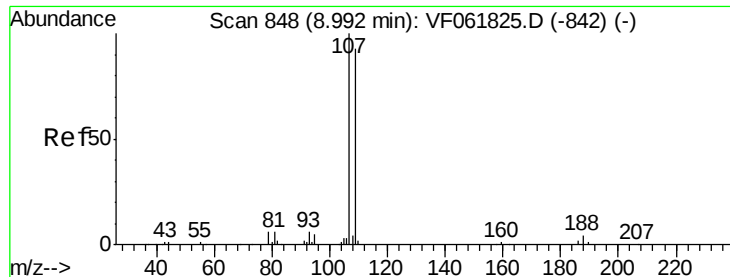
Tgt Ion: 129 Resp: 53544

Ion Ratio Lower Upper

129 100

127 78.6 37.8 113.4





#61

1,2-Dibromoethane

Concen: 19.668 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

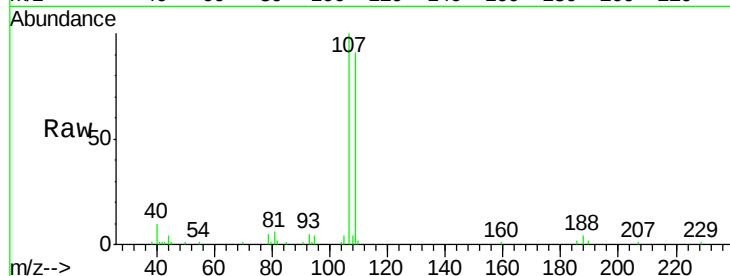
VF0304SBS01

Tot Ion:107 Resp: 44854

Ion Ratio Lower Upper

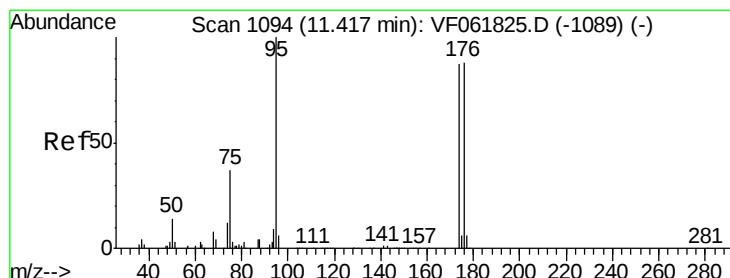
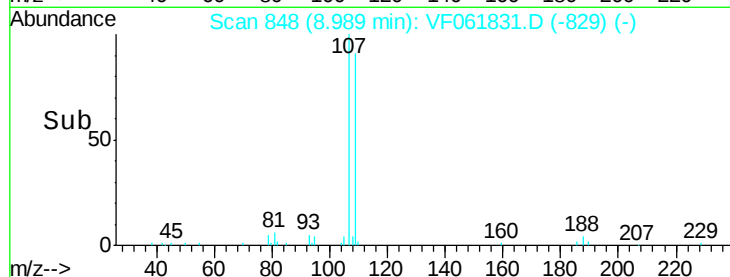
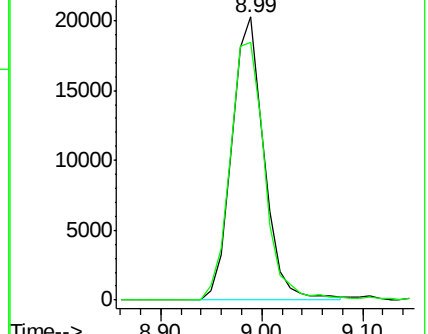
107 100

109 91.1 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: 42.697 ug/l

RT: 11.40 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

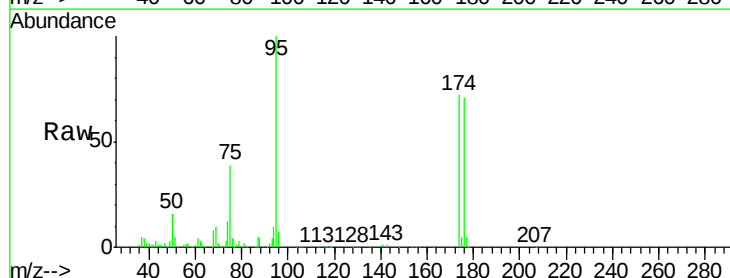
Tgt Ion: 95 Resp: 167950

Ion Ratio Lower Upper

95 100

174 72.3 0.0 165.8

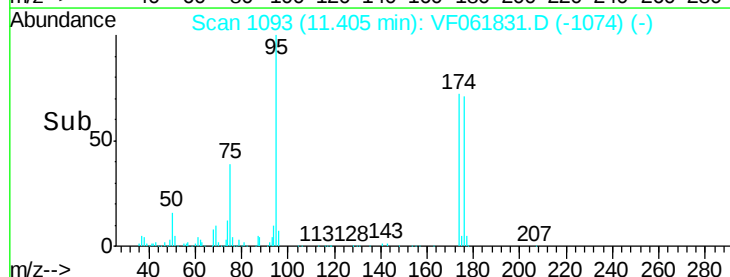
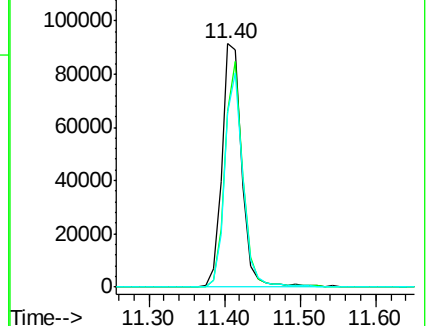
176 71.4 0.0 167.0

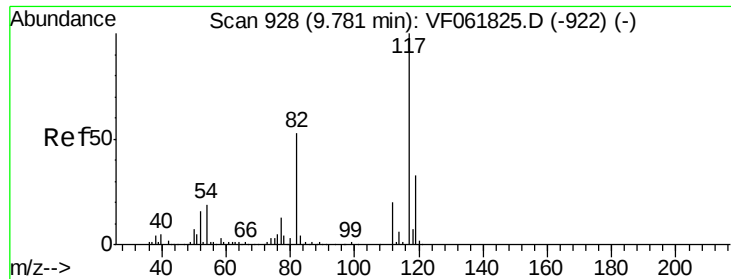


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

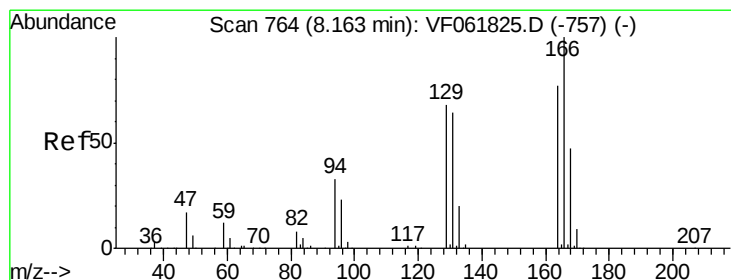
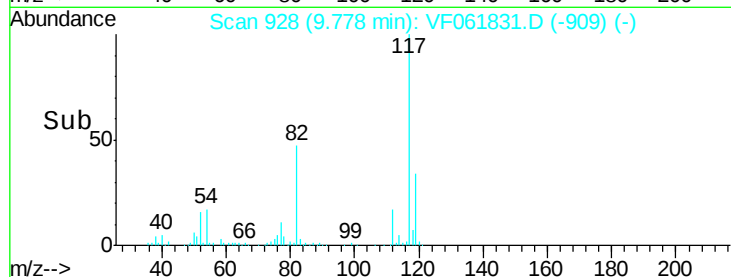
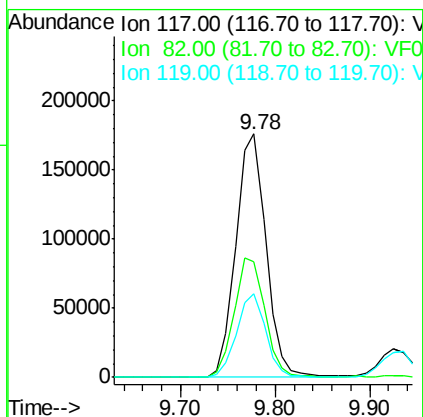
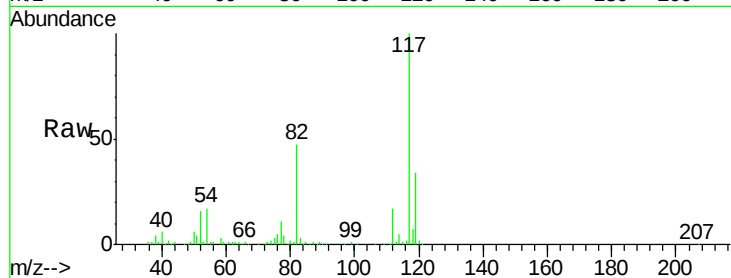




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

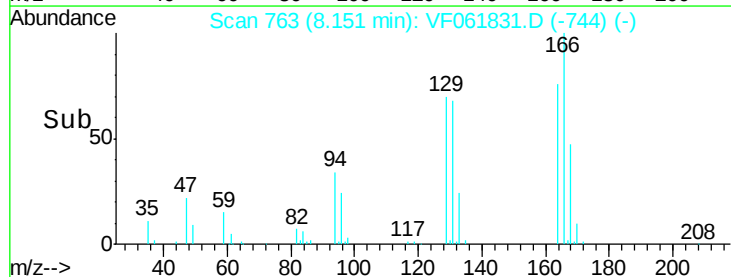
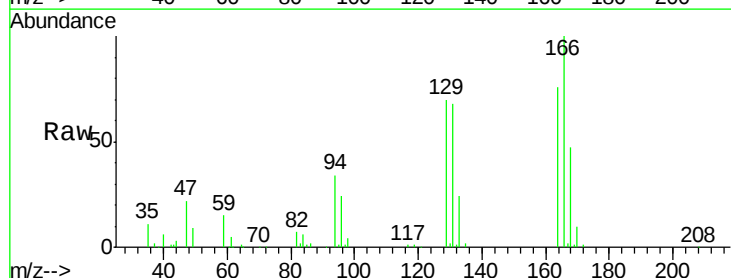
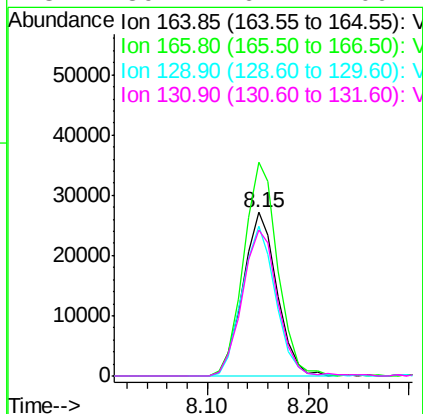
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

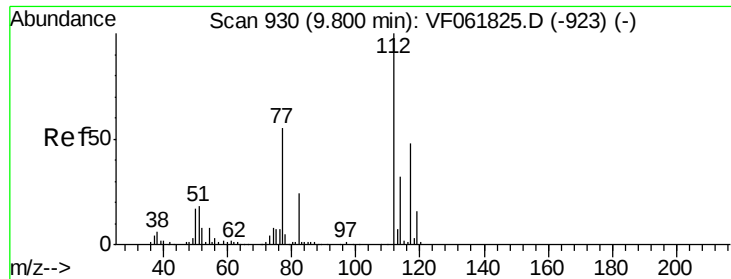
Tot Ion:117 Resp: 391447
Ion Ratio Lower Upper
117 100
82 47.3 39.3 58.9
119 34.1 26.6 40.0



#64
Tetrachloroethene
Concen: 20.024 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion:164 Resp: 64069
Ion Ratio Lower Upper
164 100
166 130.8 103.9 155.9
129 91.9 71.3 106.9
131 89.4 67.1 100.7

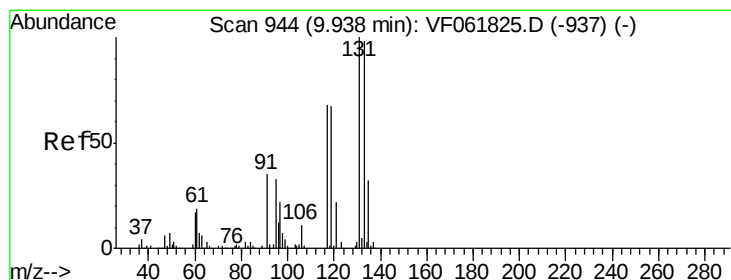
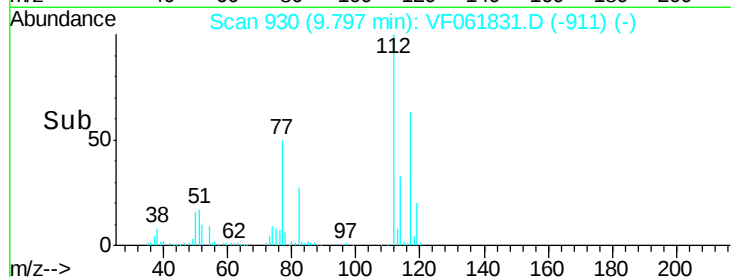
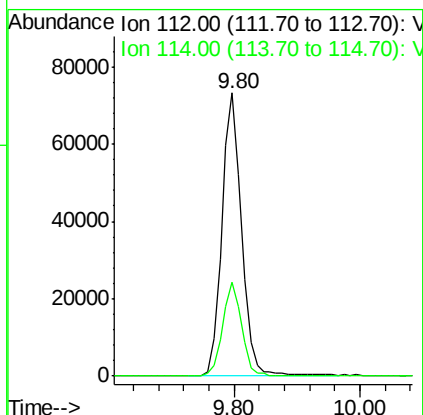
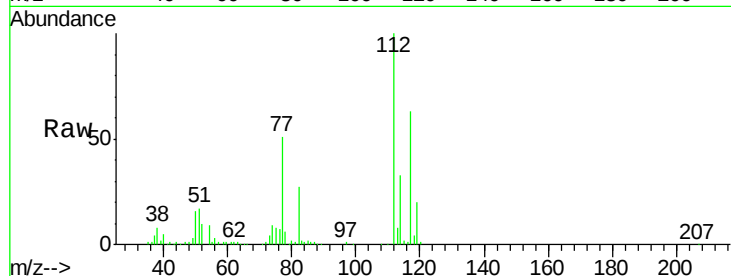




#65
Chlorobenzene
Concen: 20.124 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

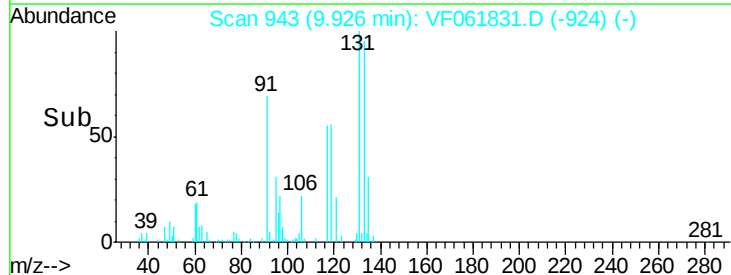
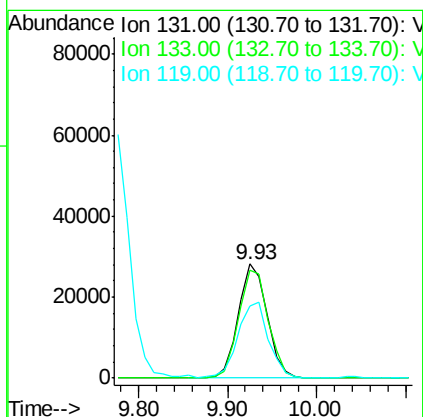
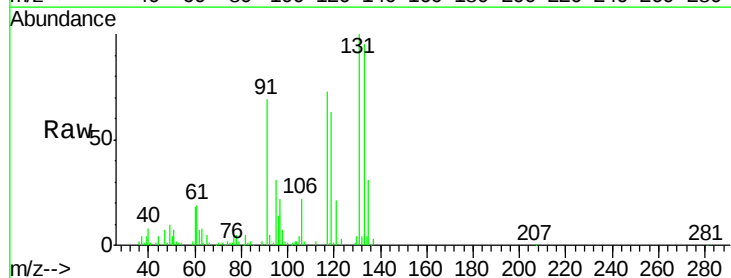
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

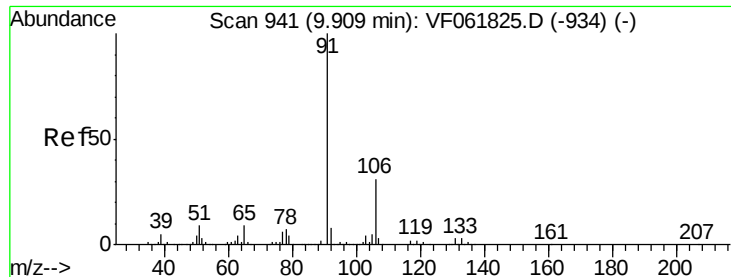
Tot Ion:112 Resp: 159853
Ion Ratio Lower Upper
112 100
114 33.1 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 20.375 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion:131 Resp: 63420
Ion Ratio Lower Upper
131 100
133 94.8 48.9 146.6
119 63.3 34.8 104.3





#67

Ethyl Benzene

Concen: 19.955 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

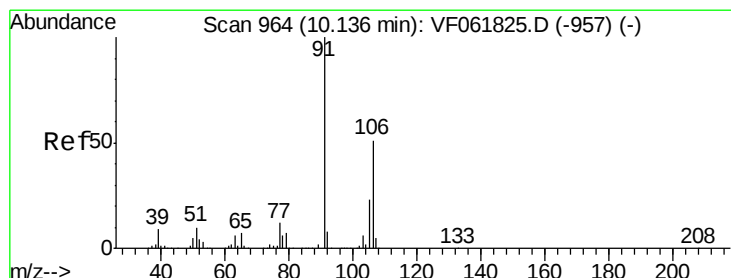
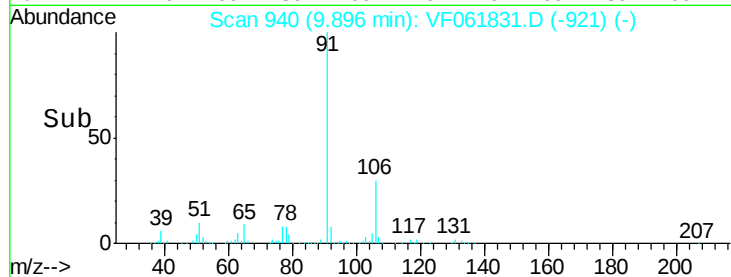
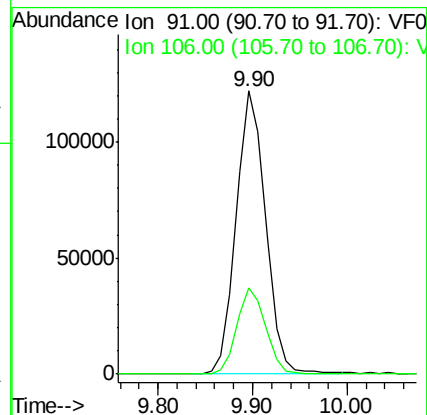
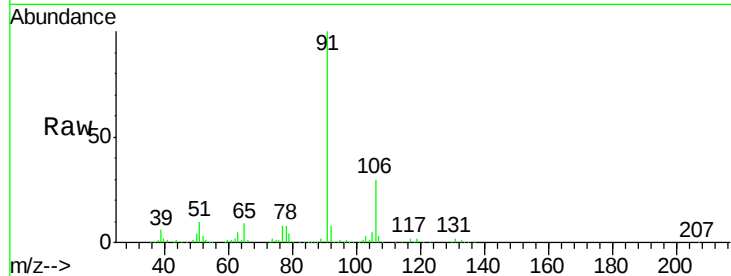
VF0304SBS01

Tot Ion: 91 Resp: 263600

Ion Ratio Lower Upper

91 100

106 30.4 24.1 36.1



#68

m/p-Xylenes

Concen: 39.525 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF061831.D

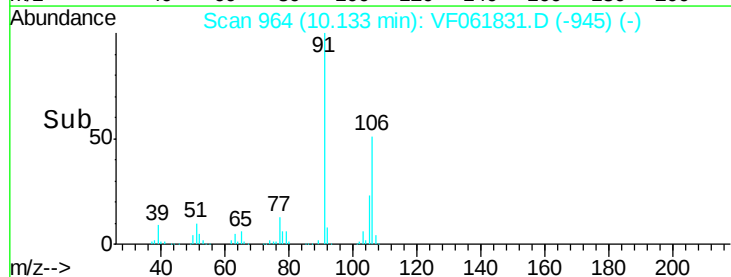
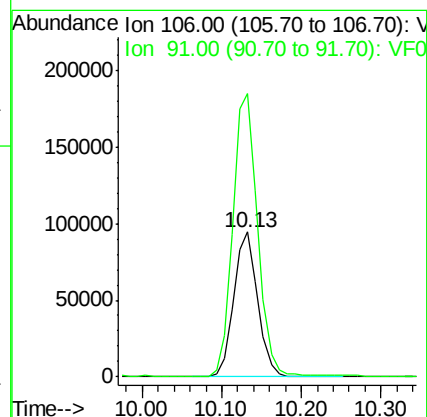
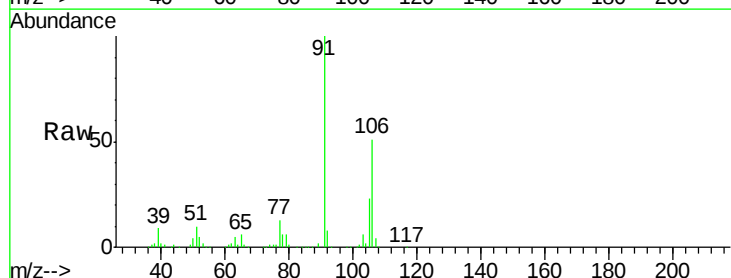
Acq: 4 Mar 2019 21:19

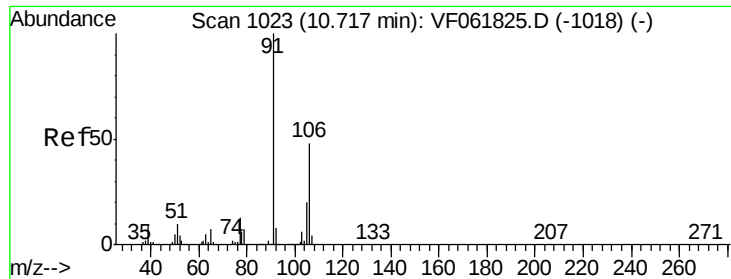
Tgt Ion:106 Resp: 199819

Ion Ratio Lower Upper

106 100

91 195.5 153.0 229.6

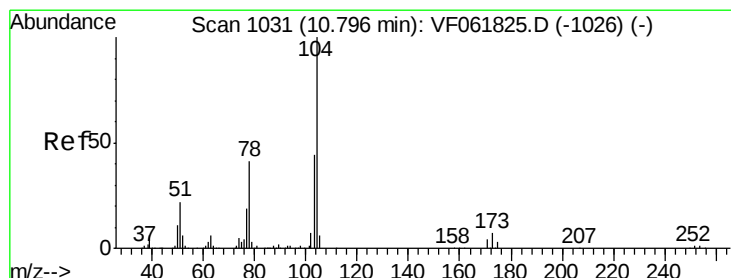
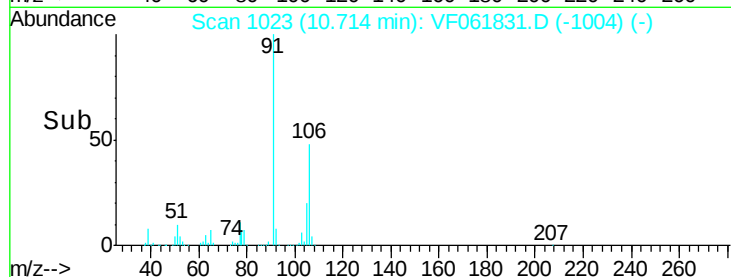
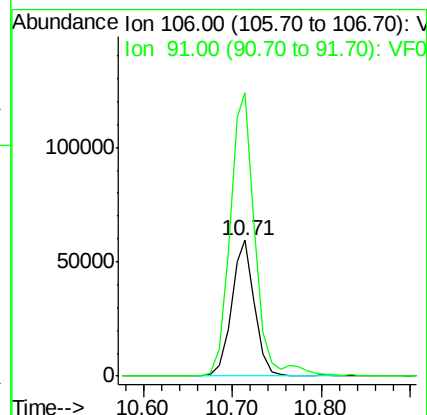
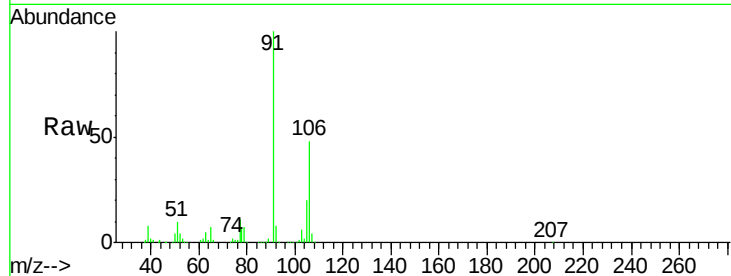




#69
o-Xylene
Concen: 20.117 ug/l
RT: 10.71 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

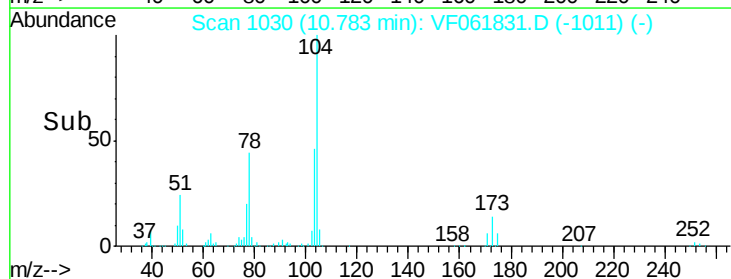
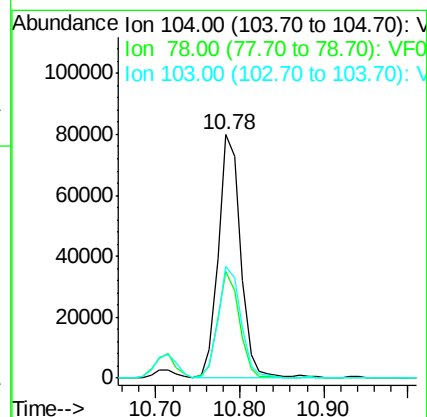
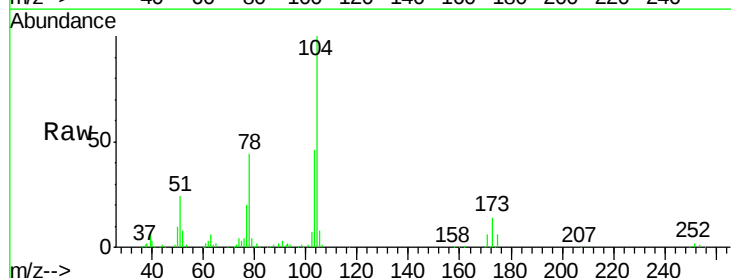
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

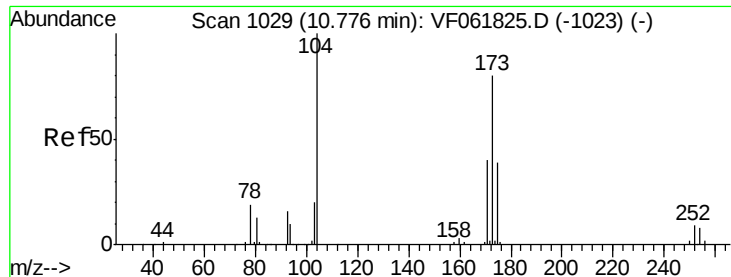
Tot Ion:106 Resp: 108520
Ion Ratio Lower Upper
106 100
91 208.3 100.1 300.1



#70
Styrene
Concen: 19.301 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion:104 Resp: 147295
Ion Ratio Lower Upper
104 100
78 43.8 33.2 49.8
103 45.9 37.2 55.8





#71

Bromoform

Concen: 20.161 ug/l

RT: 10.77 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

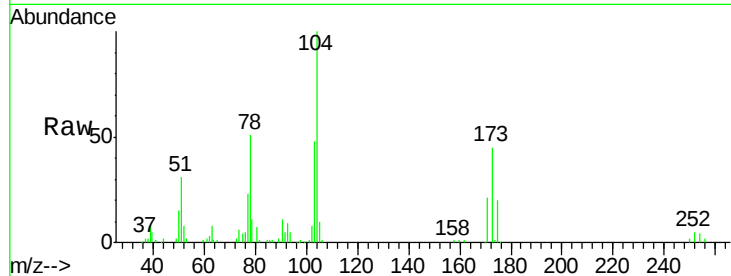
Tot Ion:173 Resp: 34077

Ion Ratio Lower Upper

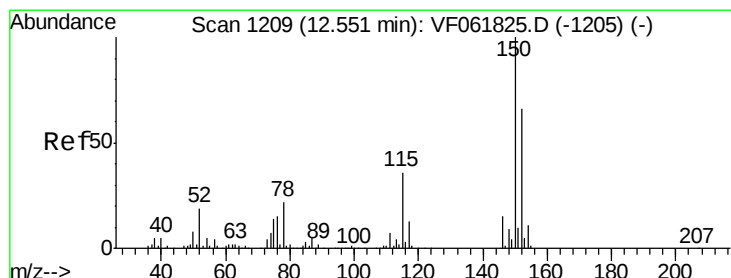
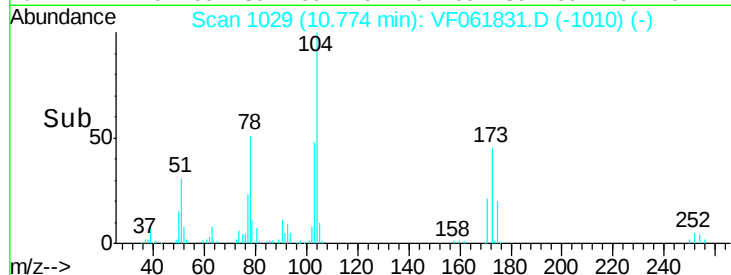
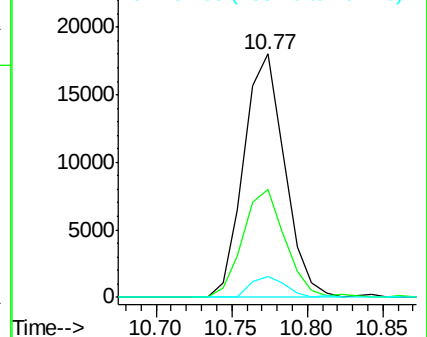
173 100

175 44.4 24.0 72.0

254 8.5 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: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

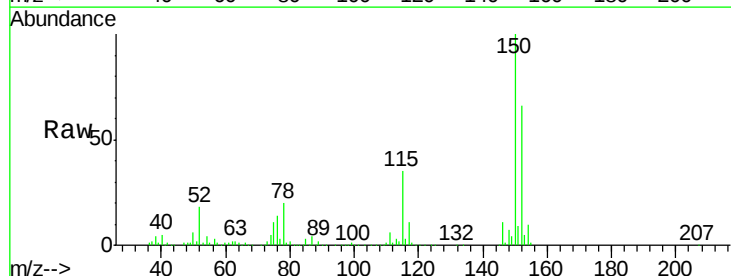
Tgt Ion:152 Resp: 198057

Ion Ratio Lower Upper

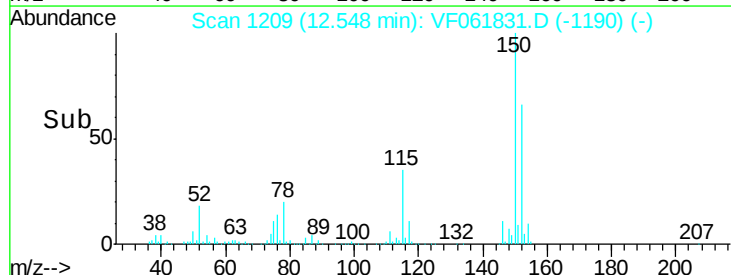
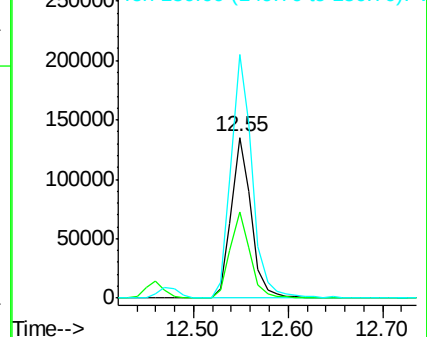
152 100

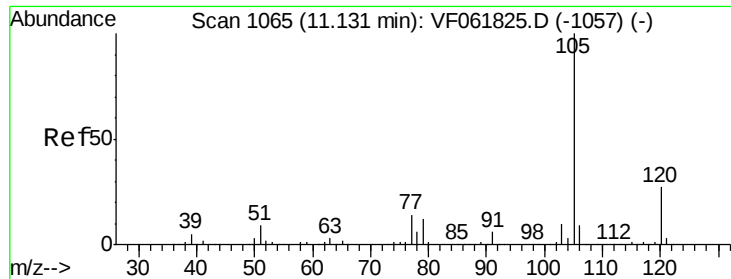
115 53.4 24.3 72.8

150 151.6 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: 22.451 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

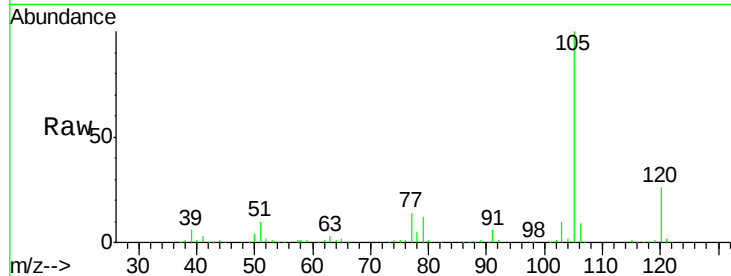
VF0304SBS01

Tot Ion:105 Resp: 316583

Ion Ratio Lower Upper

105 100

120 26.3 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

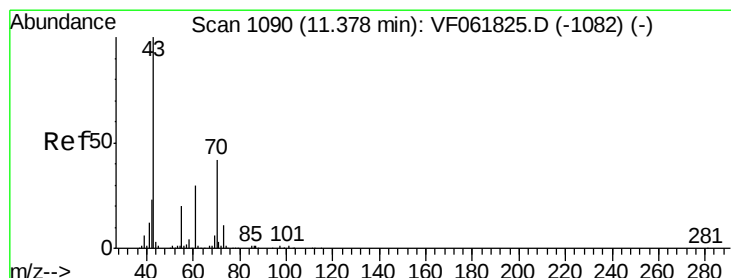
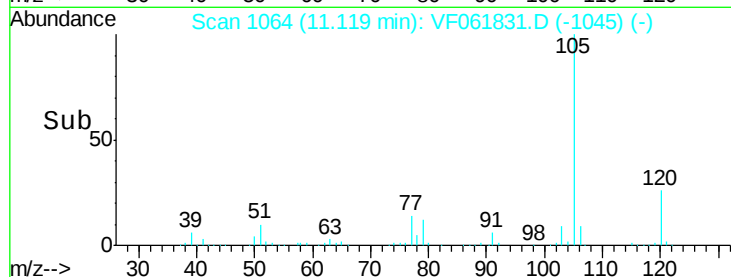
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 23.149 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion: 43 Resp: 78353

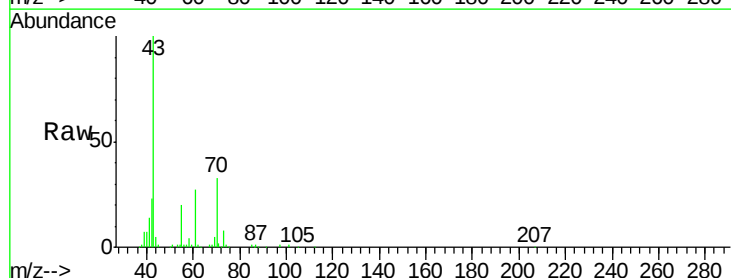
Ion Ratio Lower Upper

43 100

70 32.7 31.5 47.3

55 20.5 16.7 25.1

61 27.0 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

60000

50000

40000

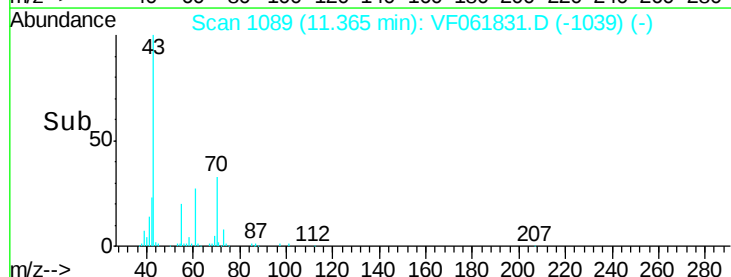
30000

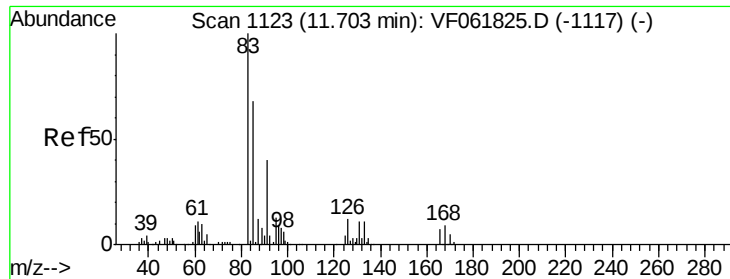
20000

10000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 21.671 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

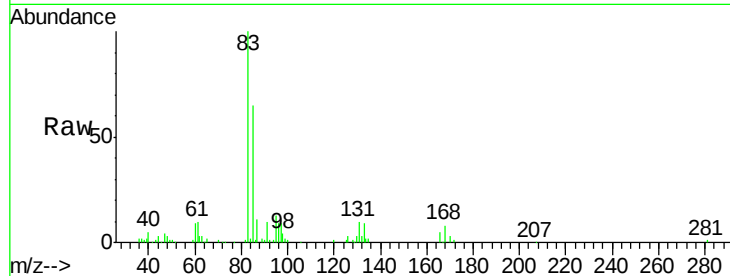
Tot Ion: 83 Resp: 54748

Ion Ratio Lower Upper

83 100

131 9.5 4.4 13.2

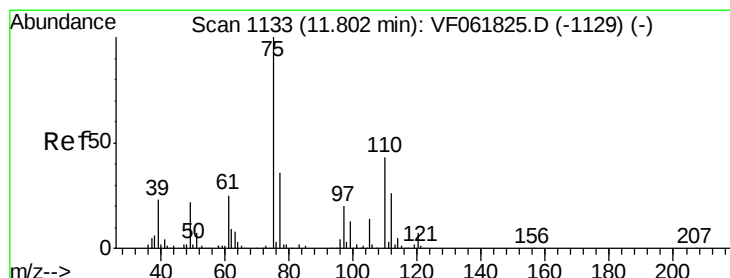
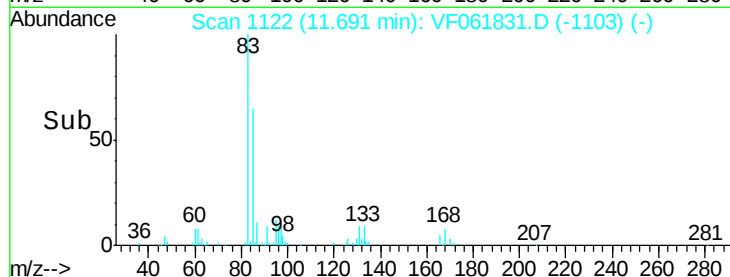
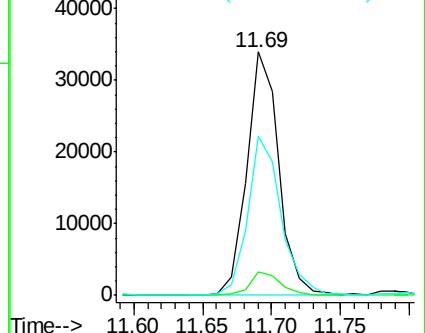
85 65.2 31.5 94.5



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: 20.815 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF061831.D

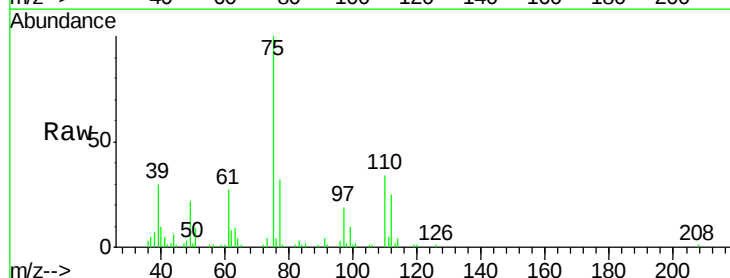
Acq: 4 Mar 2019 21:19

Tgt Ion: 75 Resp: 35751

Ion Ratio Lower Upper

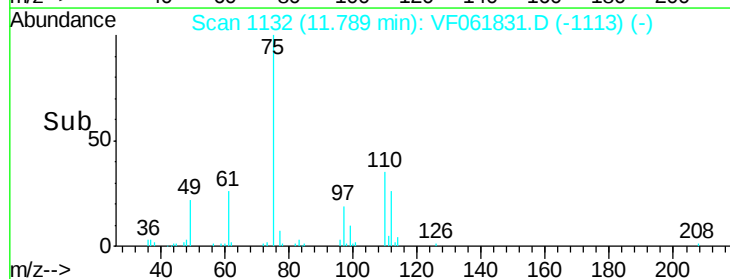
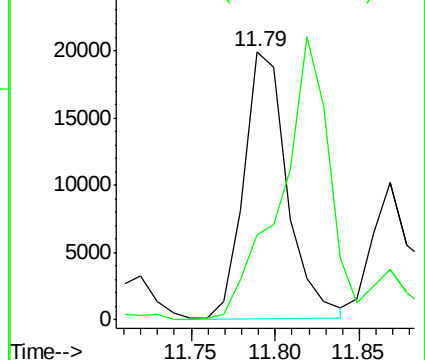
75 100

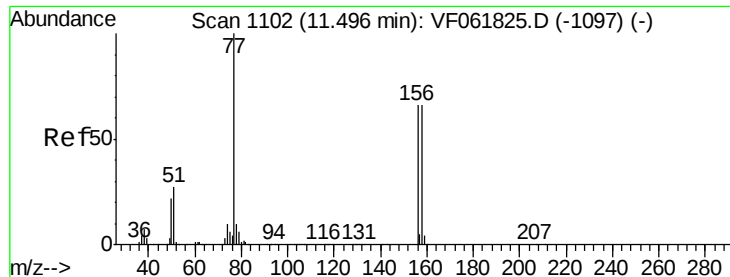
77 32.9 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.731 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

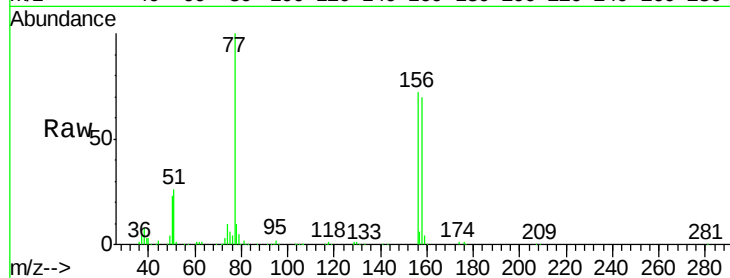
Tot Ion:156 Resp: 72219

Ion Ratio Lower Upper

156 100

77 138.7 64.3 192.7

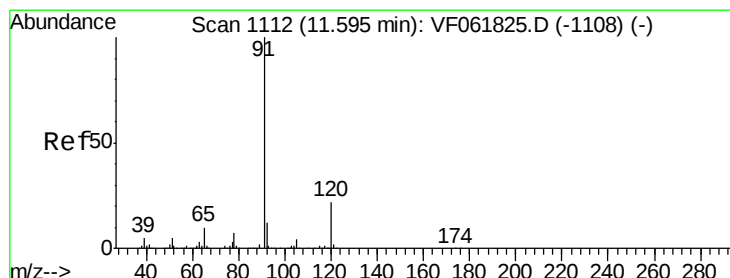
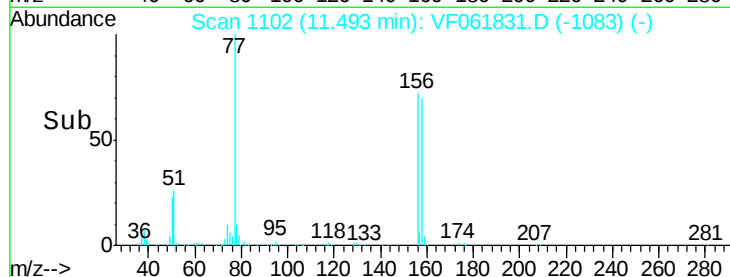
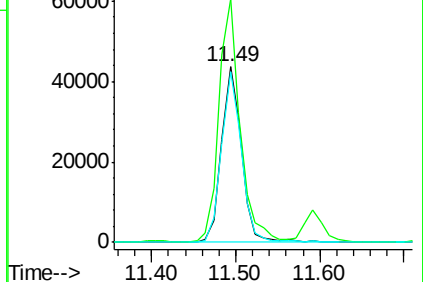
158 97.5 50.9 152.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 21.128 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF061831.D

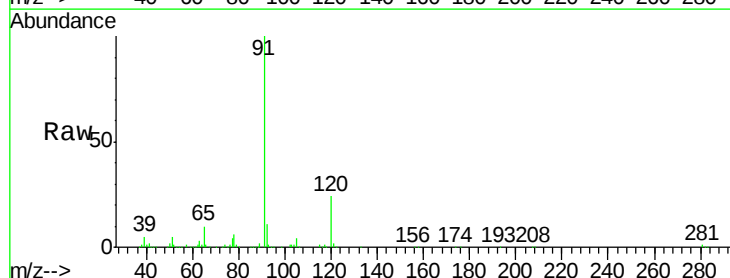
Acq: 4 Mar 2019 21:19

Tgt Ion: 91 Resp: 341887

Ion Ratio Lower Upper

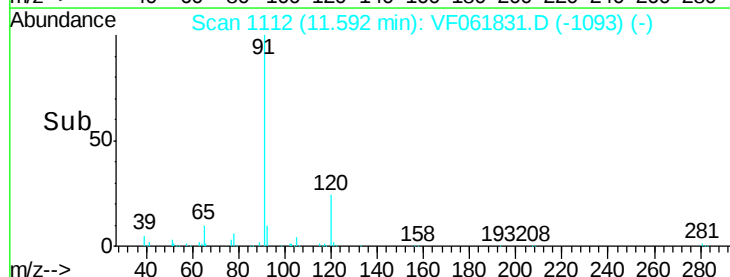
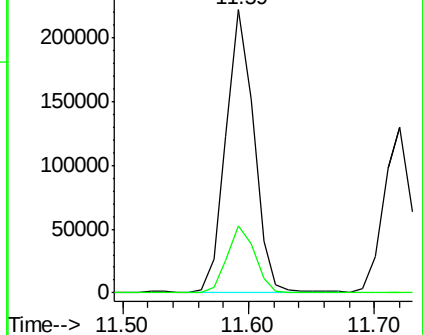
91 100

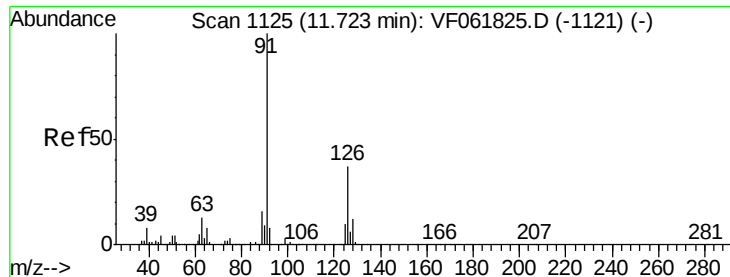
120 23.7 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

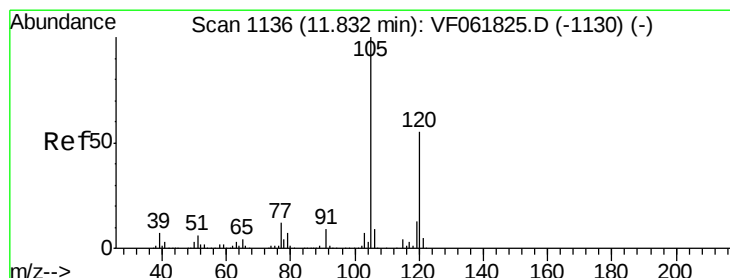
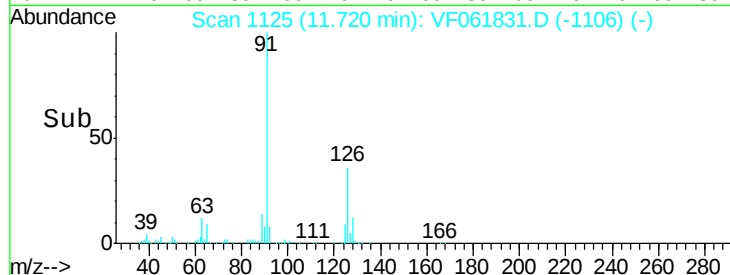
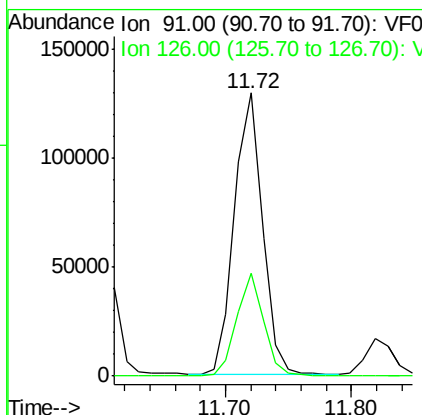
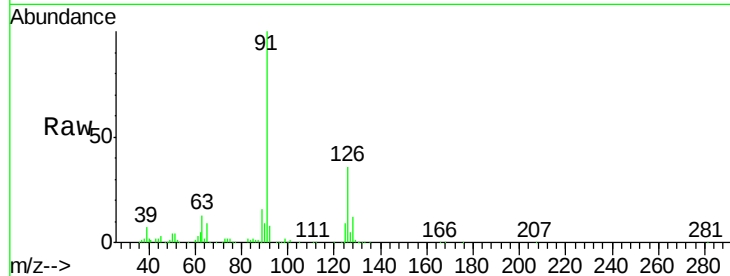




#79
2-Chlorotoluene
Concen: 22.036 ug/l
RT: 11.72 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

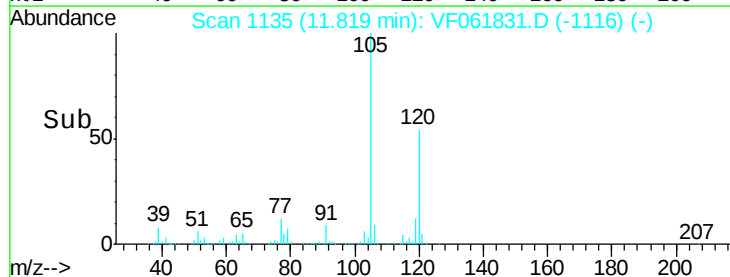
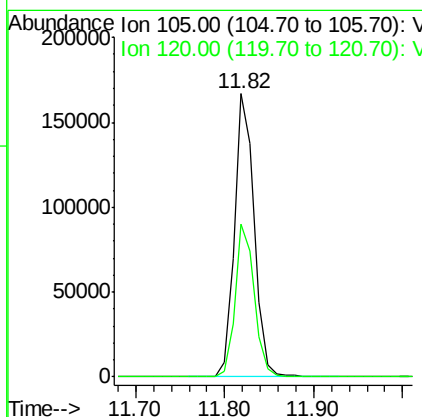
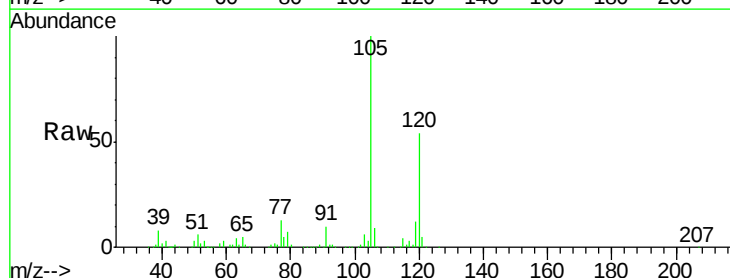
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

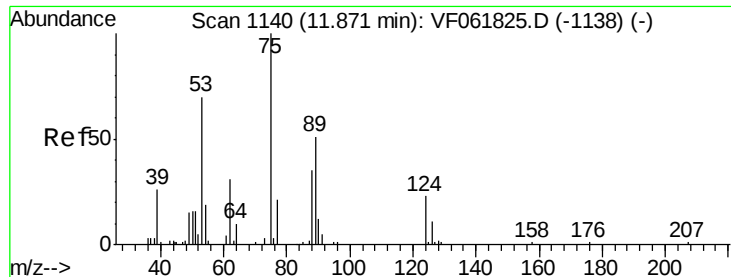
Tot Ion: 91 Resp: 199699
Ion Ratio Lower Upper
91 100
126 36.3 19.8 59.4



#80
1,3,5-Trimethylbenzene
Concen: 23.092 ug/l
RT: 11.82 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion:105 Resp: 260250
Ion Ratio Lower Upper
105 100
120 53.9 27.9 83.6

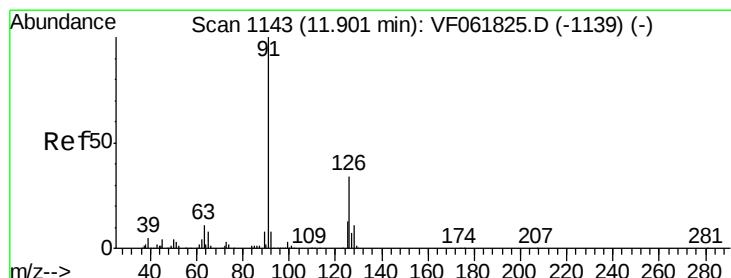
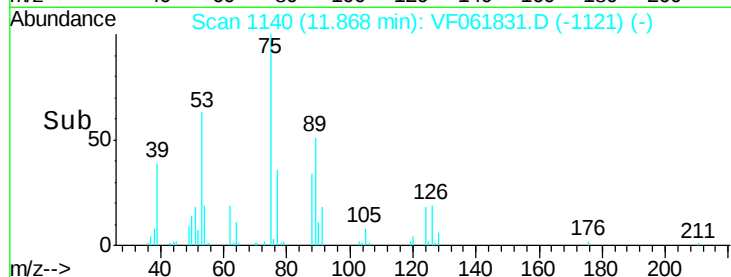
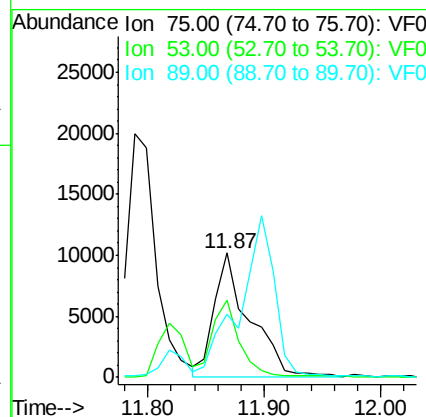
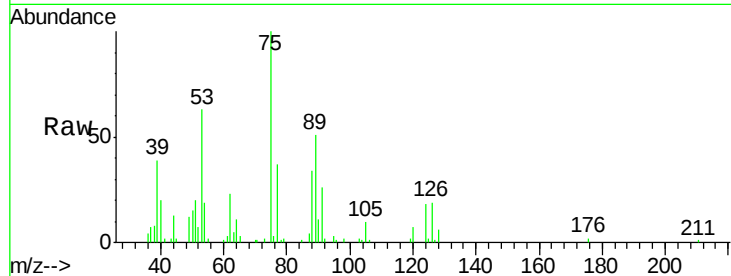




#81
trans-1,4-Dichloro-2-butene
Concen: 26.556 ug/l
RT: 11.87 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

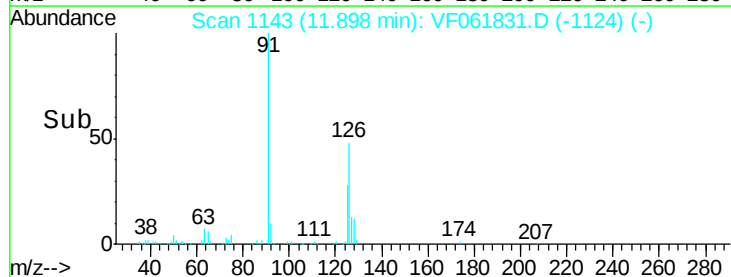
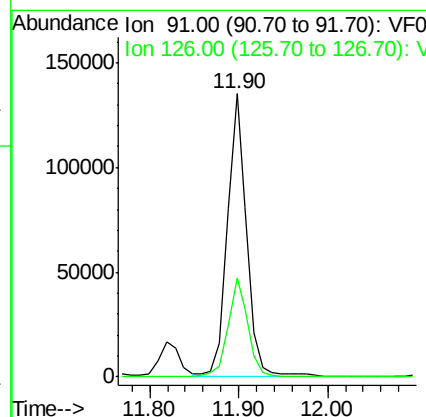
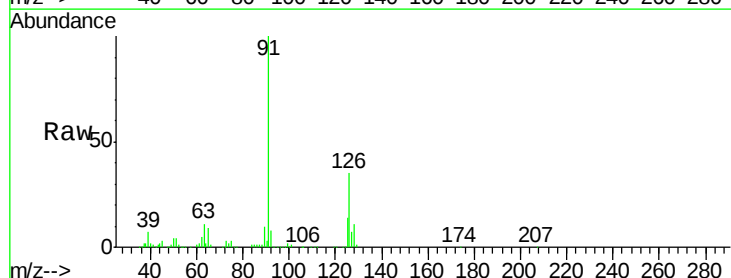
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

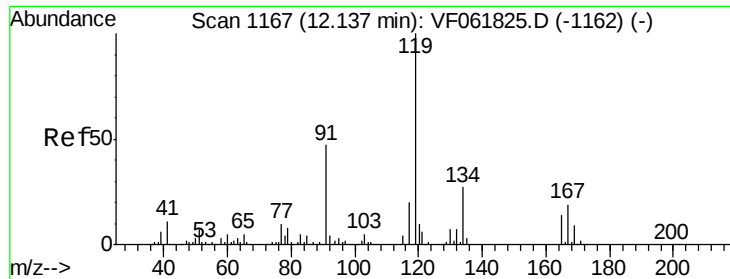
Tot Ion: 75 Resp: 21867
Ion Ratio Lower Upper
75 100
53 62.5 53.7 80.5
89 50.9 41.6 62.4



#82
4-Chlorotoluene
Concen: 21.702 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion: 91 Resp: 204135
Ion Ratio Lower Upper
91 100
126 35.1 19.1 57.1

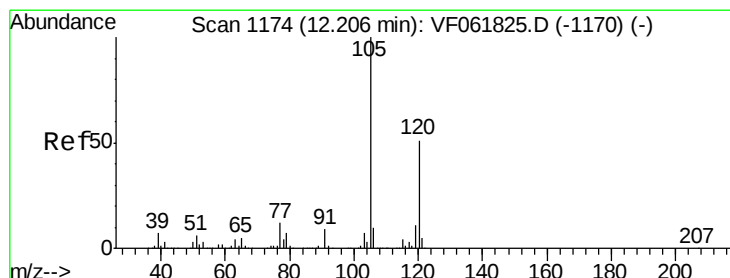
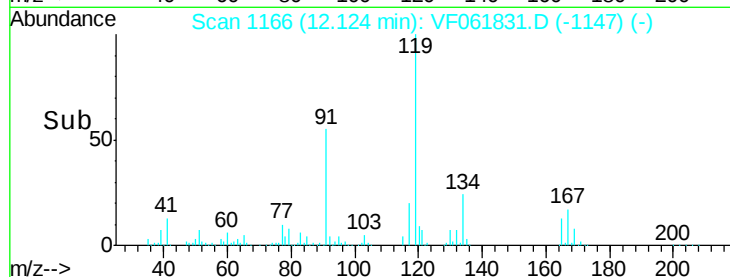
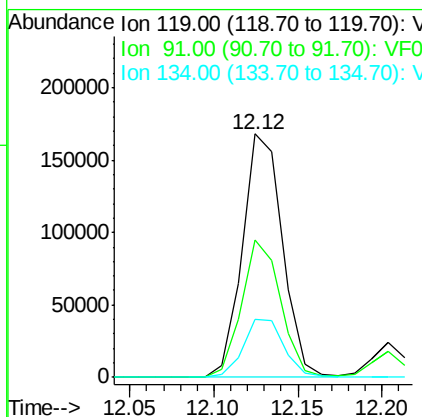
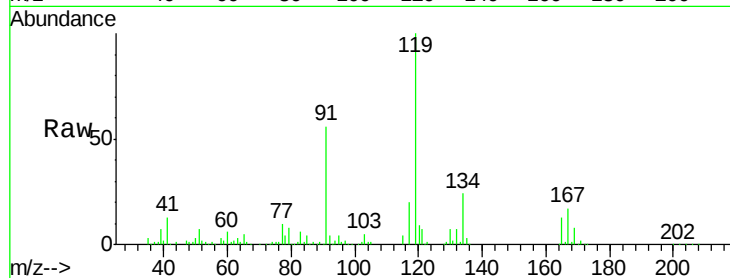




#83
tert-Butylbenzene
Concen: 22.279 ug/l
RT: 12.12 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

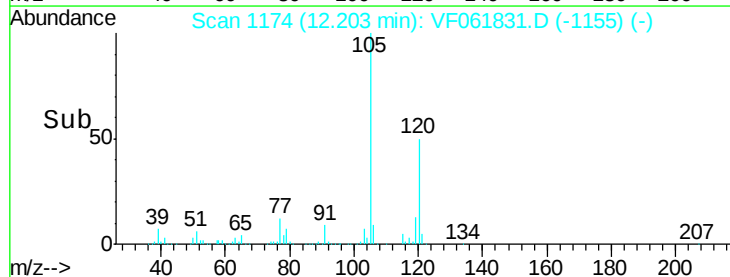
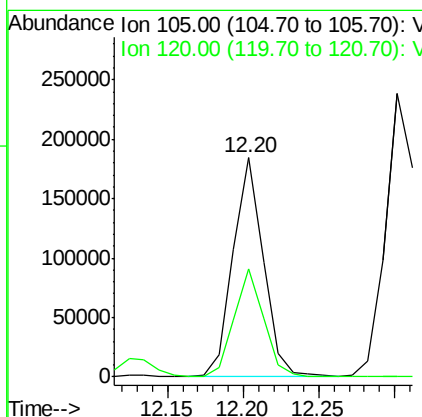
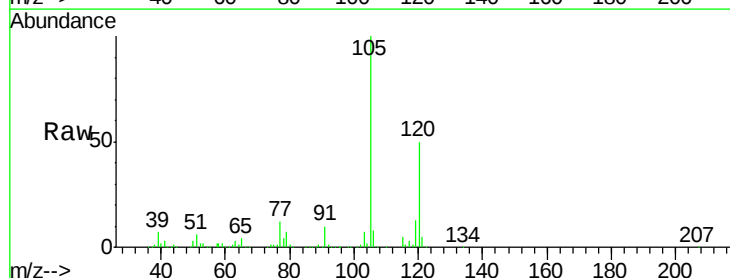
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

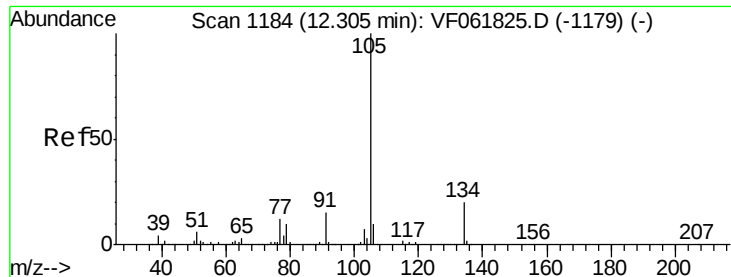
Tot Ion:119 Resp: 278111
Ion Ratio Lower Upper
119 100
91 56.3 26.3 78.8
134 24.0 12.9 38.7



#84
1,2,4-Trimethylbenzene
Concen: 22.915 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion:105 Resp: 256575
Ion Ratio Lower Upper
105 100
120 49.5 26.1 78.3





#85

sec-Butylbenzene

Concen: 21.409 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleID :

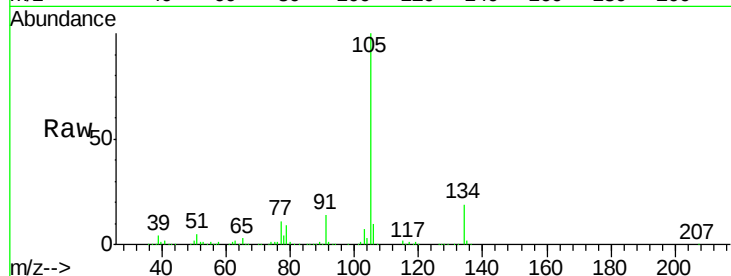
VF0304SBS01

Tot Ion:105 Resp: 345592

Ion Ratio Lower Upper

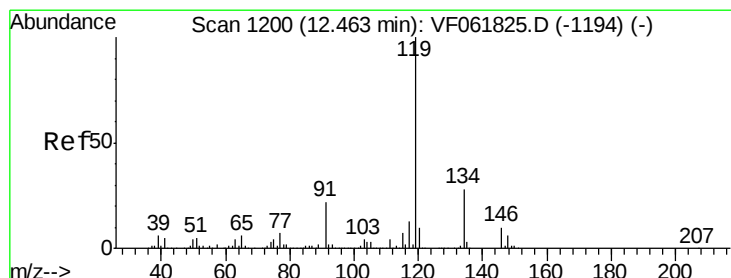
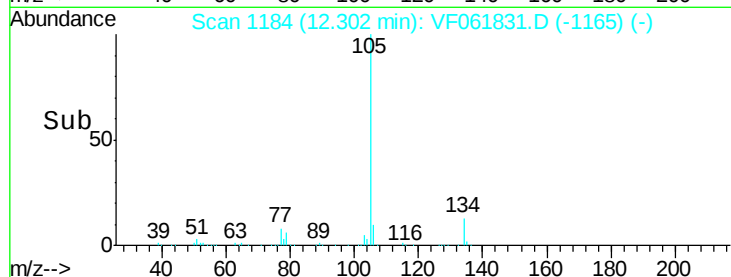
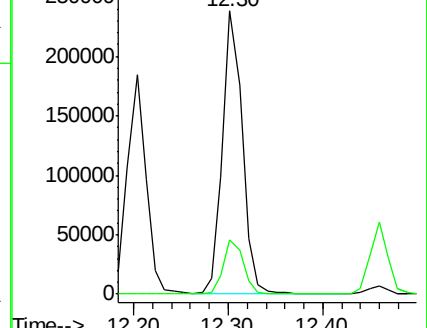
105 100

134 19.0 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.613 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

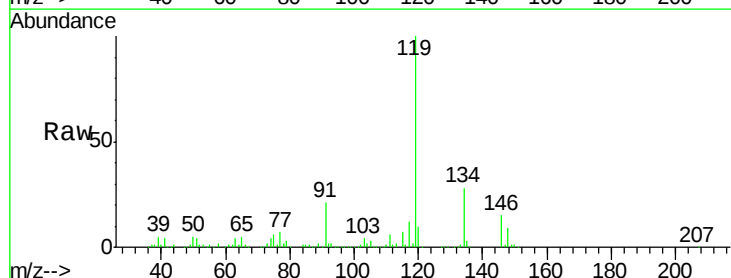
Tgt Ion:119 Resp: 306350

Ion Ratio Lower Upper

119 100

134 27.6 13.7 41.1

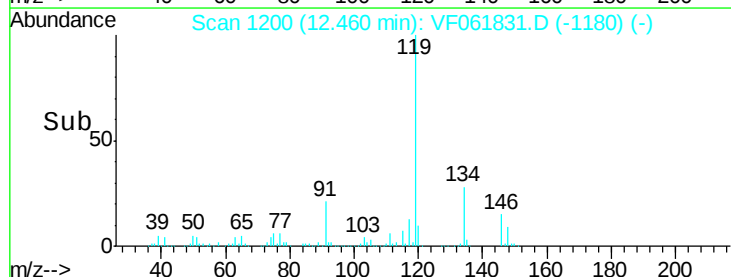
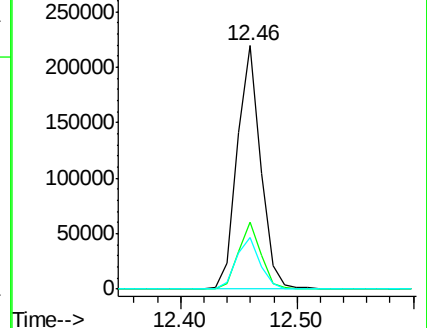
91 21.4 10.8 32.4

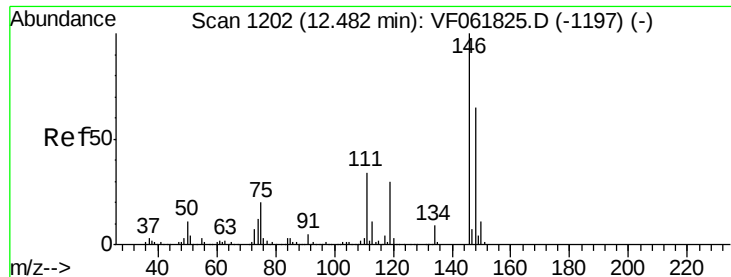


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

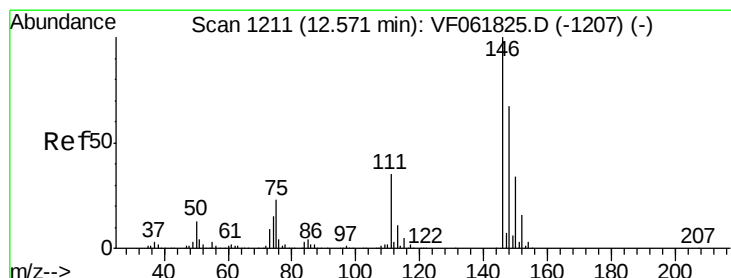
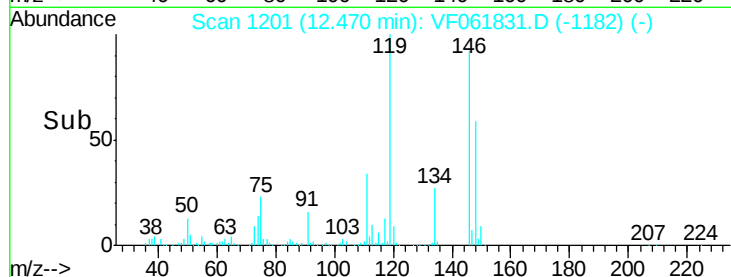
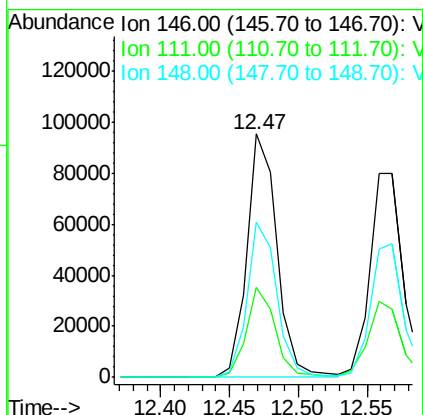
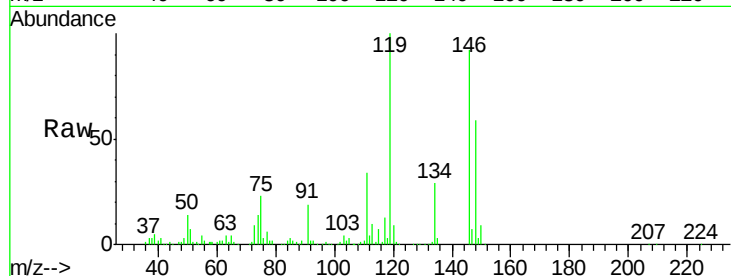




#87
 1,3-Dichlorobenzene
 Concen: 21.513 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

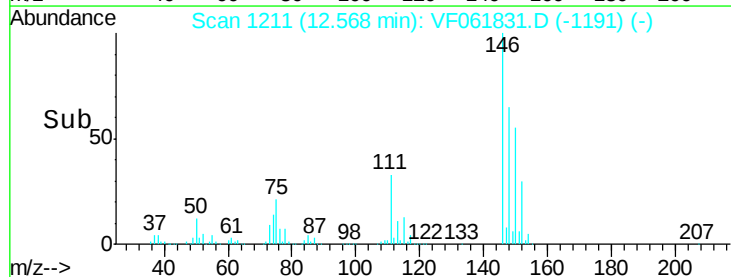
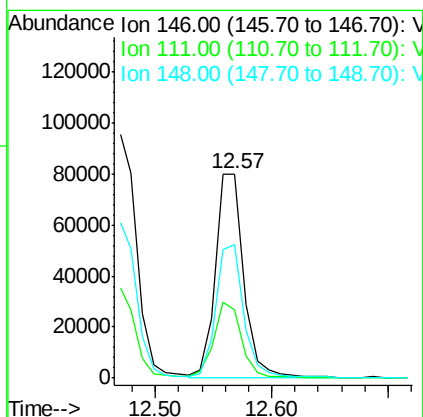
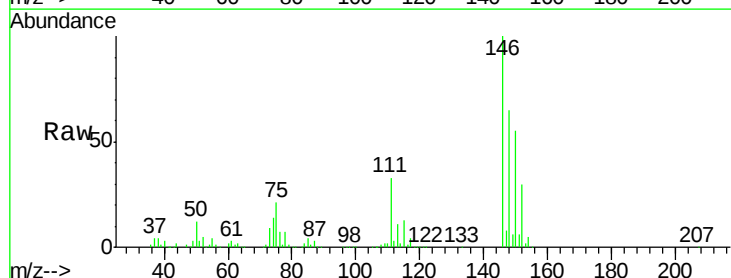
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBSD01

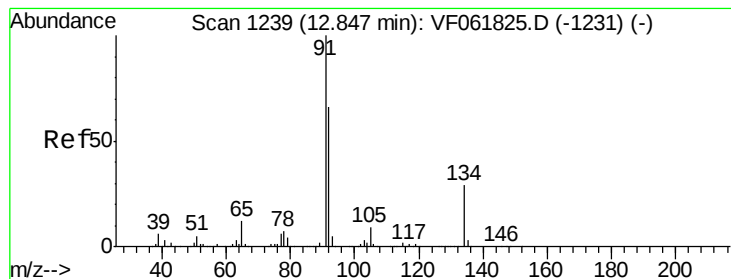
Tot Ion:146 Resp: 146103
 Ion Ratio Lower Upper
 146 100
 111 36.8 17.5 52.6
 148 64.0 31.4 94.3



#88
 1,4-Dichlorobenzene
 Concen: 20.677 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion:146 Resp: 135052
 Ion Ratio Lower Upper
 146 100
 111 33.2 18.4 55.4
 148 65.2 32.2 96.6





#89

n-Butylbenzene

Concen: 22.016 ug/l

RT: 12.84 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

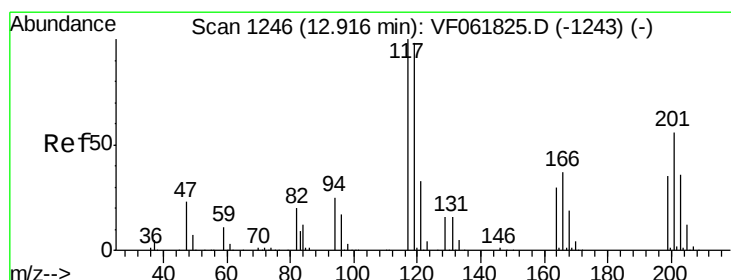
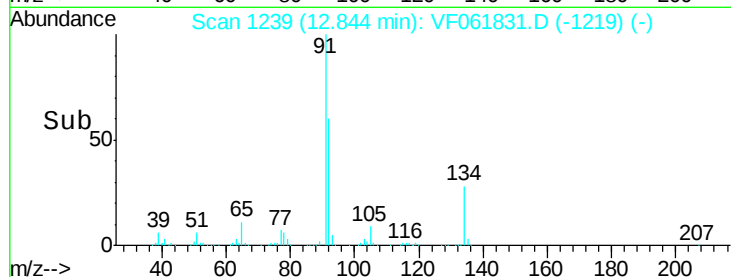
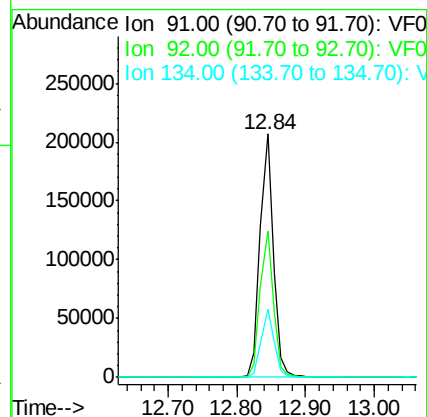
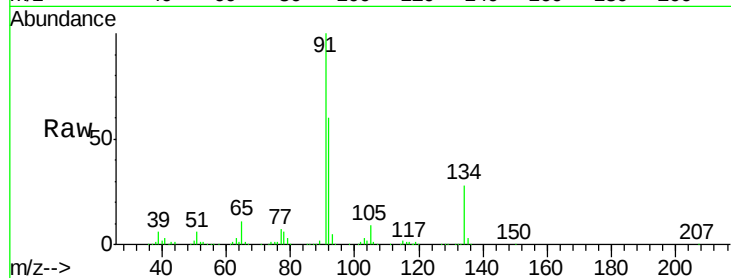
Tot Ion: 91 Resp: 281641

Ion Ratio Lower Upper

91 100

92 60.2 31.4 94.3

134 27.9 12.3 36.9



#90

Hexachloroethane

Concen: 23.335 ug/l

RT: 12.91 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VF061831.D

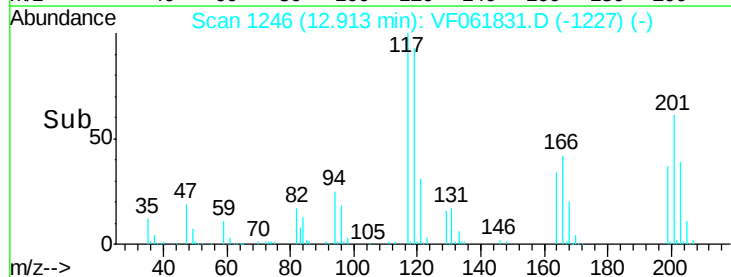
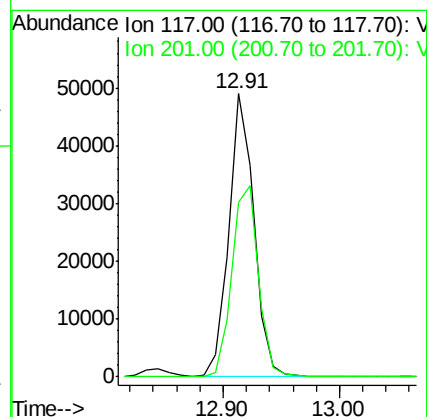
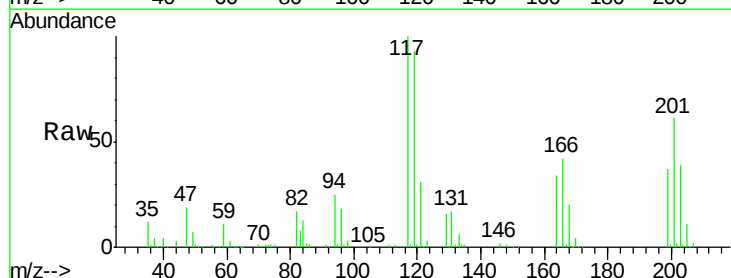
Acq: 4 Mar 2019 21:19

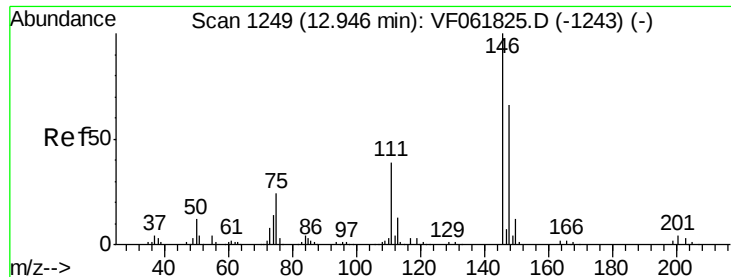
Tgt Ion: 117 Resp: 73524

Ion Ratio Lower Upper

117 100

201 61.5 36.2 108.6





#91

1,2-Dichlorobenzene

Concen: 20.948 ug/l

RT: 12.94 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

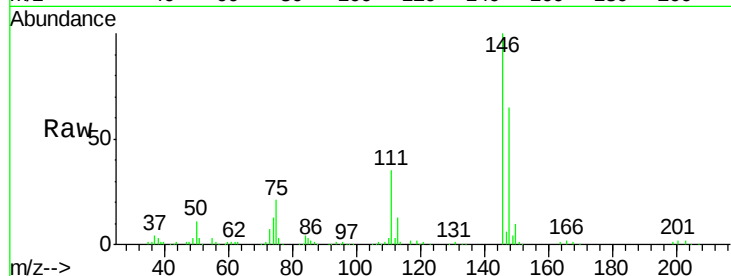
Tot Ion:146 Resp: 135315

Ion Ratio Lower Upper

146 100

111 35.2 20.2 60.5

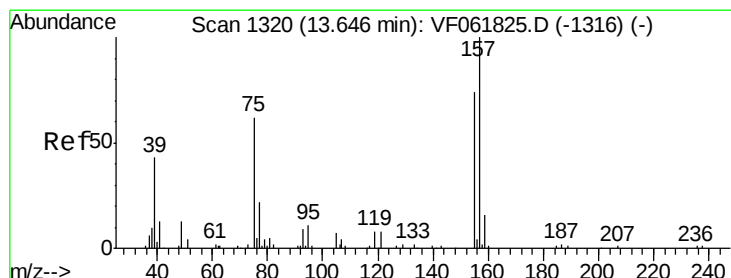
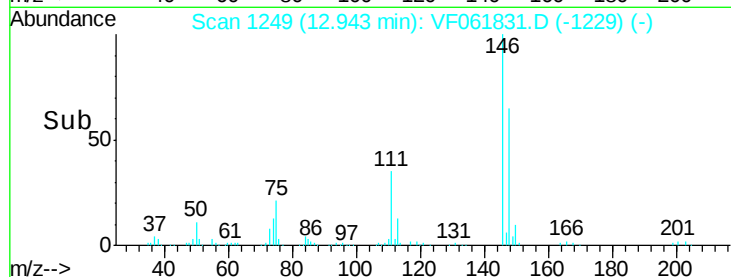
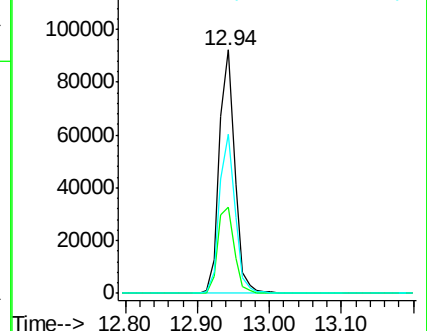
148 65.2 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.017 ug/l

RT: 13.64 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

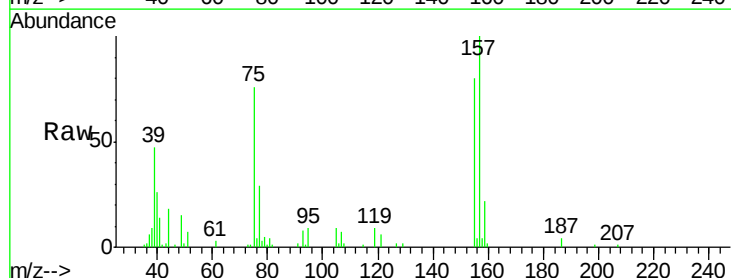
Tgt Ion: 75 Resp: 8418

Ion Ratio Lower Upper

75 100

155 105.2 48.9 146.8

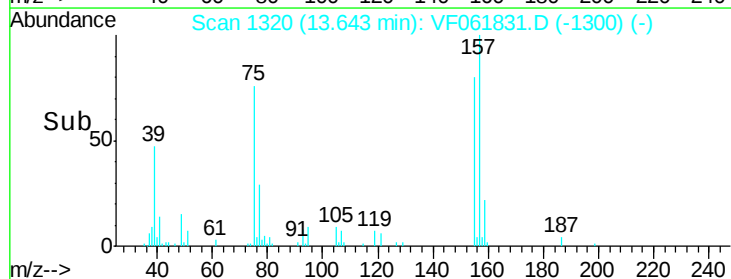
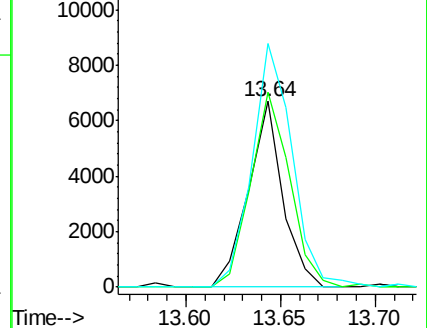
157 131.3 58.3 174.8

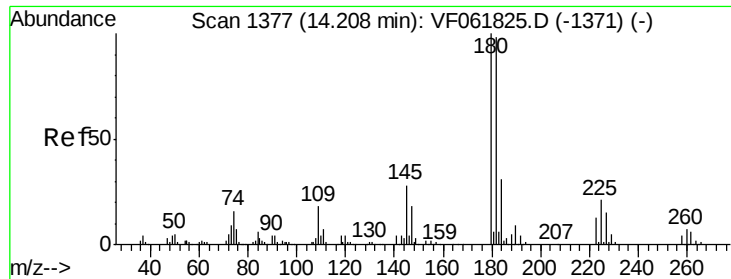


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

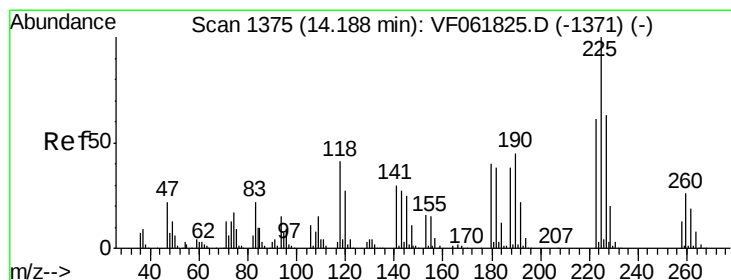
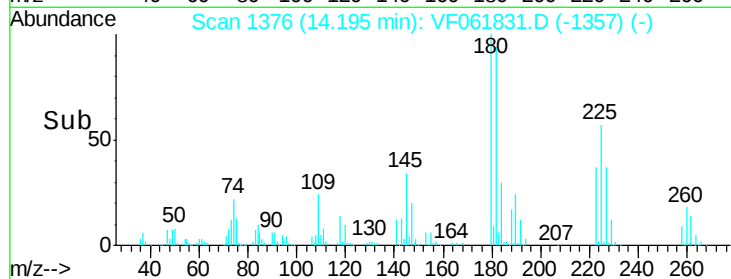
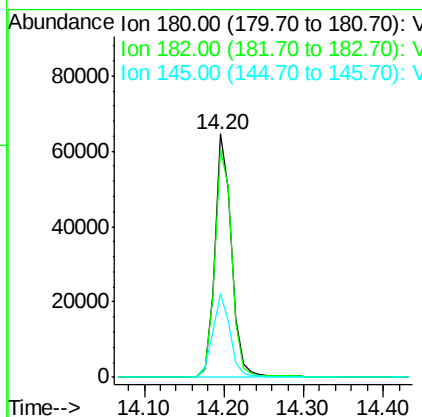
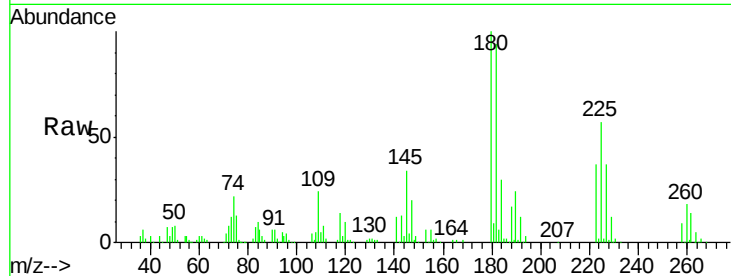




#93
 1,2,4-Trichlorobenzene
 Concen: 20.768 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

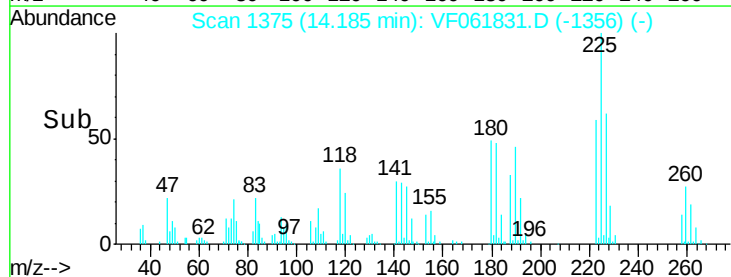
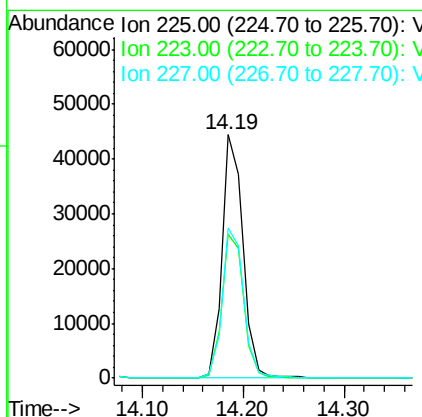
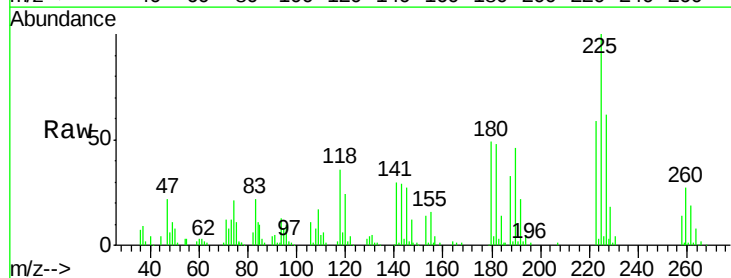
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

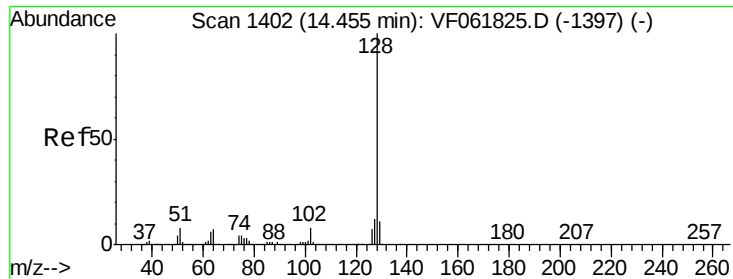
Tot Ion:180 Resp: 96160
 Ion Ratio Lower Upper
 180 100
 182 94.0 48.6 145.9
 145 34.5 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: 22.407 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion:225 Resp: 64074
 Ion Ratio Lower Upper
 225 100
 223 59.2 30.9 92.7
 227 61.7 32.1 96.3

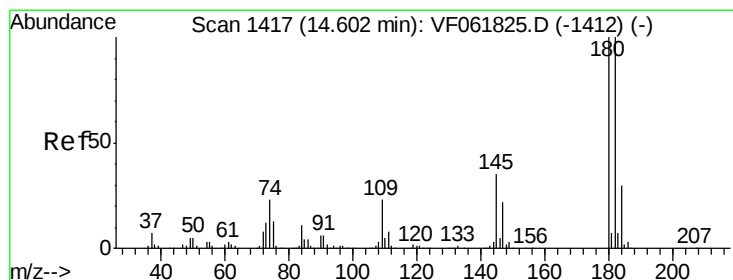
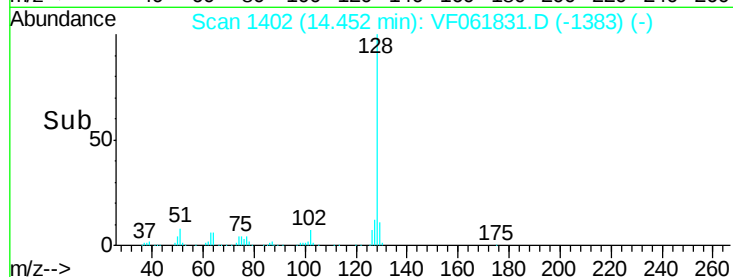
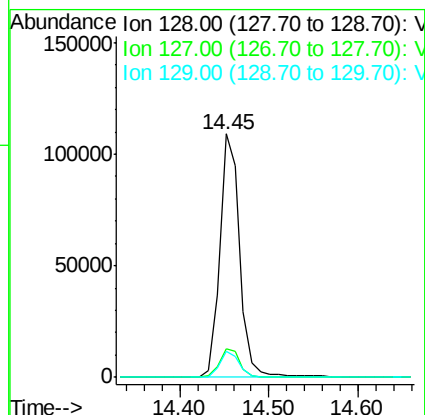
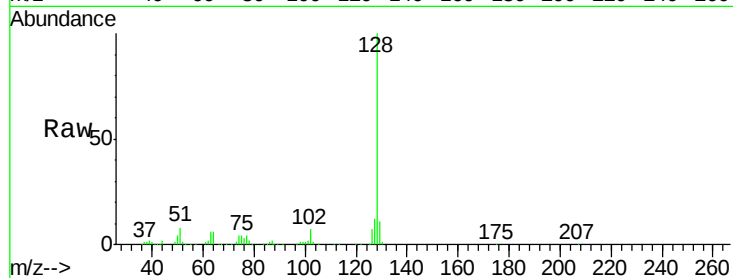




#95
Naphthalene
Concen: 21.078 ug/l
RT: 14.45 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion:128 Resp: 170752
Ion Ratio Lower Upper
128 100
127 11.5 9.8 14.6
129 10.7 9.4 14.2



#96
1,2,3-Trichlorobenzene
Concen: 20.873 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion:180 Resp: 88707
Ion Ratio Lower Upper
180 100
182 96.4 49.0 147.2
145 30.5 15.4 46.1

