

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF030419\
 Data File : VF061830.D
 Acq On : 4 Mar 2019 20:50
 Operator : VA/AP
 Sample : VF0304SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Quant Time: Mar 05 05:03:11 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	306923	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	468657	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	405774	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	217883	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	126328	56.13	ug/l	-0.02
Spiked Amount			Recovery	=	112.26%	
35) Dibromofluoromethane	4.11	113	181339	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
50) Toluene-d8	7.55	98	507916	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
62) 4-Bromofluorobenzene	11.41	95	205350	50.73	ug/l	0.00
Spiked Amount			Recovery	=	101.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	87276	24.761	ug/l	97
3) Chloromethane	1.11	50	83331	22.533	ug/l	91
4) Vinyl Chloride	1.15	62	76898	22.368	ug/l	97
5) Bromomethane	1.32	94	51740	21.867	ug/l	95
6) Chloroethane	1.39	64	36501	21.544	ug/l	94
7) Trichlorofluoromethane	1.43	101	15106	3.643	ug/l	100
8) Diethyl Ether	1.63	74	22345	21.383	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.84	101	64727	21.638	ug/l #	91
10) Methyl Iodide	1.90	142	98317	17.206	ug/l	93
11) Tert butyl alcohol	2.59	59	15921	122.228	ug/l	97
12) 1,1-Dichloroethene	1.80	96	58443	22.221	ug/l	94
13) Acrolein	2.00	56	17755	108.454	ug/l #	79
14) Allyl chloride	2.10	41	73920	22.904	ug/l	94
15) Acrylonitrile	2.95	53	46759	101.204	ug/l	92
16) Acetone	2.24	43	47148	97.635	ug/l #	87
17) Carbon Disulfide	1.83	76	141574	17.125	ug/l	99
18) Methyl Acetate	2.35	43	24713	22.717	ug/l	97
19) Methyl tert-butyl Ether	2.44	73	102431	22.789	ug/l	99
20) Methylene Chloride	2.18	84	21876	7.499	ug/l	95
21) trans-1,2-Dichloroethene	2.31	96	58056	20.306	ug/l	94
22) Diisopropyl ether	2.80	45	174034	22.465	ug/l	96
23) Vinyl Acetate	3.19	43	396707	104.843	ug/l	98
24) 1,1-Dichloroethane	2.87	63	95838	20.442	ug/l	99
25) 2-Butanone	4.34	43	103190	97.828	ug/l	99
26) 2,2-Dichloropropane	3.60	77	42157	21.229	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	75785	20.195	ug/l	95
28) Bromochloromethane	3.72	49	41591	18.489	ug/l	99
29) Tetrahydrofuran	4.08	42	48391	100.937	ug/l	96
30) Chloroform	3.87	83	111034	20.826	ug/l	94
31) Cyclohexane	3.69	56	67889	13.377	ug/l	92
32) 1,1,1-Trichloroethane	4.09	97	76027	21.769	ug/l	95
36) 1,1-Dichloropropene	4.28	75	91092	19.621	ug/l	95
37) Ethyl Acetate	4.11	43	43381	20.117	ug/l #	76
38) Carbon Tetrachloride	4.00	117	64888	20.241	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061830.D
 Acq On : 4 Mar 2019 20:50
 Operator : VA/AP
 Sample : VF0304SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Quant Time: Mar 05 05:03:11 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)
39) Methylcyclohexane	5.45	83	103315	18.817	ug/l	95
40) Benzene	4.64	78	237270	19.539	ug/l	99
41) Methacrylonitrile	4.75	41	21250	19.270	ug/l	95
42) 1,2-Dichloroethane	4.94	62	58227	20.045	ug/l	91
43) Isopropyl Acetate	6.95	43	47050	18.433	ug/l #	94
44) Trichloroethene	5.50	130	76726	19.538	ug/l	99
45) 1,2-Dichloropropane	6.23	63	55351	18.857	ug/l	95
46) Dibromomethane	6.09	93	35096	19.419	ug/l	89
47) Bromodichloromethane	6.38	83	79516	20.091	ug/l	99
48) Methyl methacrylate	6.72	41	32216	20.973	ug/l	90
49) 1,4-Dioxane	6.71	88	5758	398.761	ug/l #	77
51) 4-Methyl-2-Pentanone	8.26	43	180649	99.049	ug/l	99
52) Toluene	7.62	92	144993	19.687	ug/l	92
53) t-1,3-Dichloropropene	8.27	75	68779	20.881	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	87182	19.871	ug/l	94
55) 1,1,2-Trichloroethane	8.49	97	42701	19.734	ug/l	98
56) Ethyl methacrylate	8.62	69	44125	18.316	ug/l	93
57) 1,3-Dichloropropane	8.86	76	66228	18.337	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.29	63	35258	84.823	ug/l #	84
59) 2-Hexanone	9.49	43	122732	96.000	ug/l	97
60) Dibromochloromethane	8.72	129	59131	19.633	ug/l	96
61) 1,2-Dibromoethane	8.98	107	45700	19.472	ug/l	95
64) Tetrachloroethene	8.16	164	64950	19.582	ug/l	98
65) Chlorobenzene	9.79	112	158676	19.271	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.93	131	63936	19.816	ug/l	95
67) Ethyl Benzene	9.90	91	272543	19.904	ug/l	100
68) m/p-Xylenes	10.13	106	217521	41.507	ug/l	93
69) o-Xylene	10.71	106	110345	19.733	ug/l	93
70) Styrene	10.79	104	159479	20.160	ug/l	98
71) Bromoform	10.77	173	35000	19.976	ug/l	99
73) Isopropylbenzene	11.12	105	323129	20.830	ug/l	98
74) N-amyl acetate	11.37	43	78814	21.167	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	54735	19.695	ug/l	93
76) 1,2,3-Trichloropropane	11.80	75	39135	20.712	ug/l	98
77) Bromobenzene	11.49	156	77920	20.332	ug/l	86
78) n-propylbenzene	11.60	91	362095	20.341	ug/l	99
79) 2-Chlorotoluene	11.72	91	196531	19.713	ug/l	91
80) 1,3,5-Trimethylbenzene	11.82	105	261554	21.096	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	22859	25.234	ug/l	94
82) 4-Chlorotoluene	11.89	91	210844	20.375	ug/l	92
83) tert-Butylbenzene	12.13	119	282997	20.608	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	252063	20.463	ug/l	92
85) sec-Butylbenzene	12.31	105	371438	20.916	ug/l	98
86) p-Isopropyltoluene	12.46	119	314597	21.109	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	153448	20.538	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	142962	19.897	ug/l	97
89) n-Butylbenzene	12.84	91	293358	20.845	ug/l	96
90) Hexachloroethane	12.92	117	69740	20.120	ug/l	99
91) 1,2-Dichlorobenzene	12.94	146	141352	19.891	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8336	18.918	ug/l	93

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030419\
Data File : VF061830.D
Acq On : 4 Mar 2019 20:50
Operator : VA/AP
Sample : VF0304SBS01
Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Quant Time: Mar 05 05:03:11 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:04:51 2019
Response via : Initial Calibration

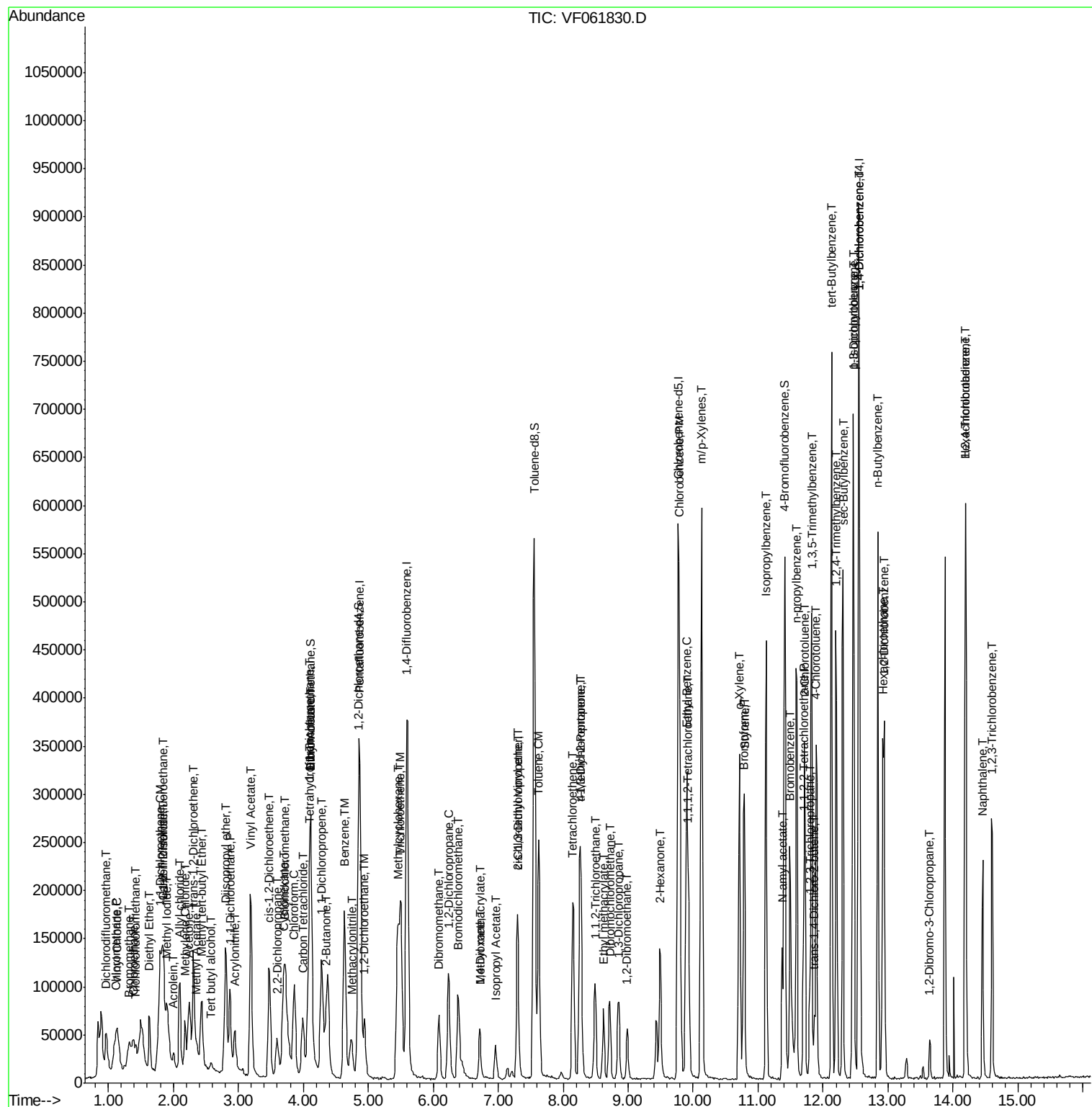
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	97963	19.232	ug/l	95
94) Hexachlorobutadiene	14.19	225	64373	20.463	ug/l	96
95) Naphthalene	14.46	128	177463	19.913	ug/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	91898	19.657	ug/l	95

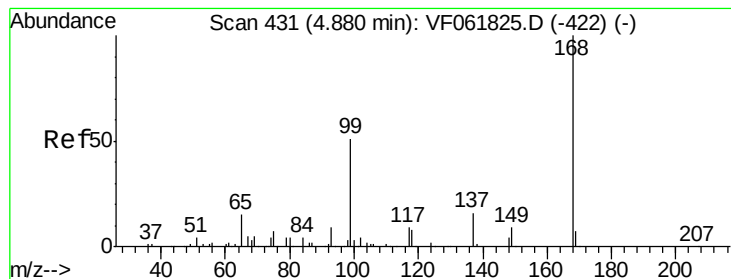
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061830.D
 Acq On : 4 Mar 2019 20:50
 Operator : VA/AP
 Sample : VF0304SBS01
 Misc : 5.00µL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Quant Time: Mar 05 05:03:11 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

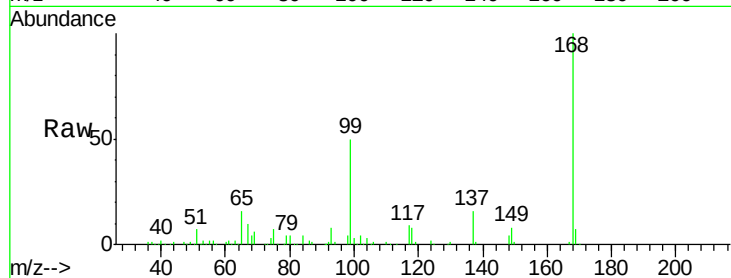
VF0304SBS01

Tot Ion:168 Resp: 306923

Ion Ratio Lower Upper

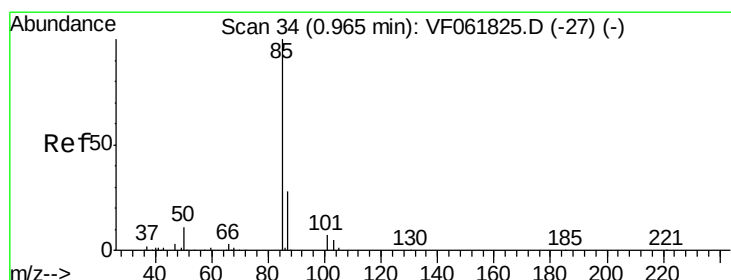
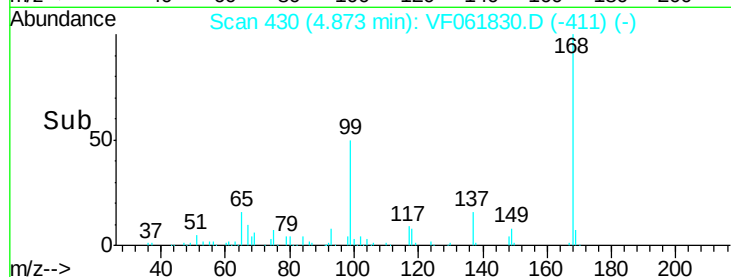
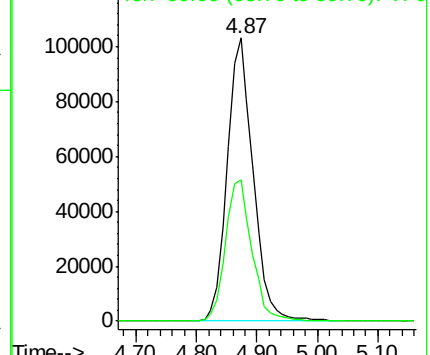
168 100

99 49.9 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 24.761 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061830.D

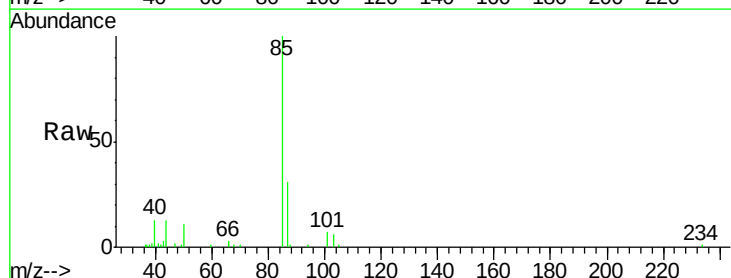
Acq: 4 Mar 2019 20:50

Tgt Ion: 85 Resp: 87276

Ion Ratio Lower Upper

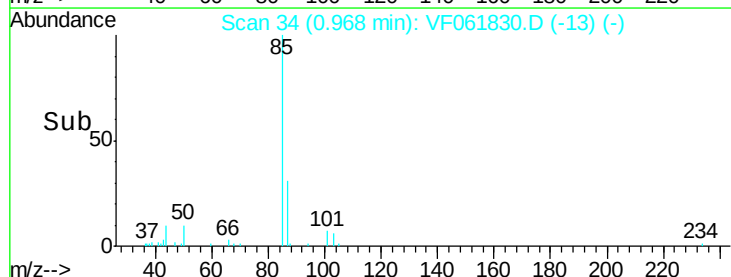
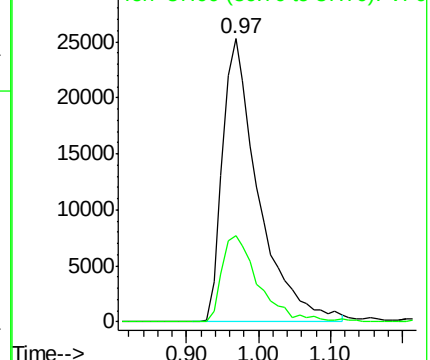
85 100

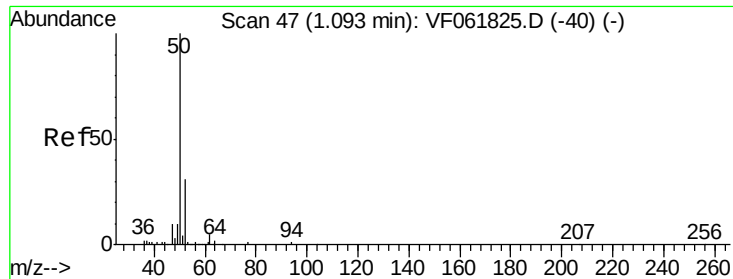
87 30.6 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 22.533 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

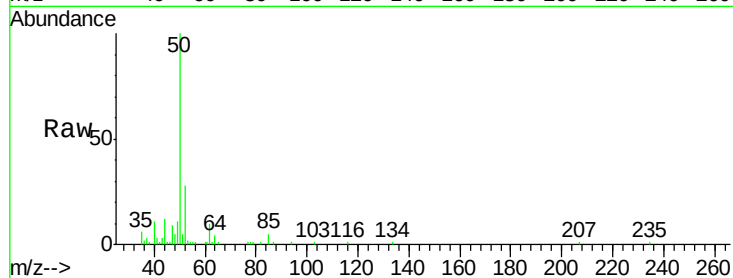
VF0304SBS01

Tot Ion: 50 Resp: 83331

Ion Ratio Lower Upper

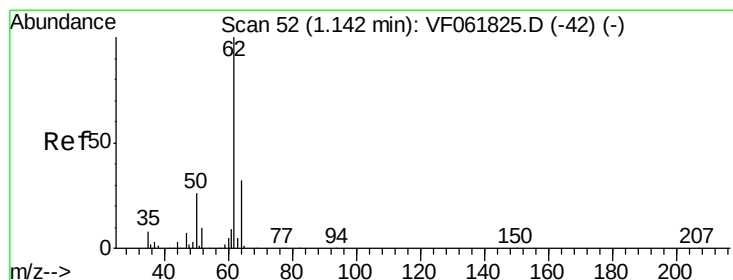
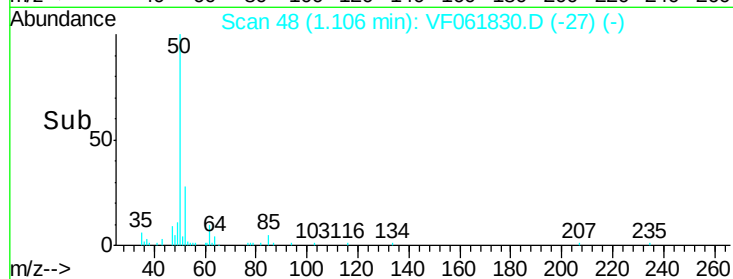
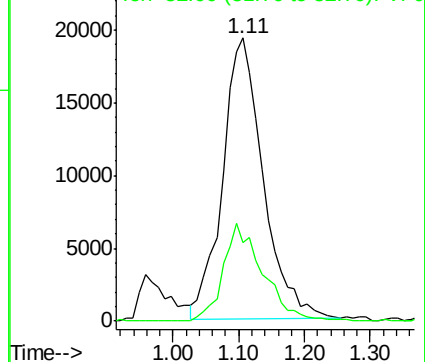
50 100

52 27.8 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 22.368 ug/l

RT: 1.15 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061830.D

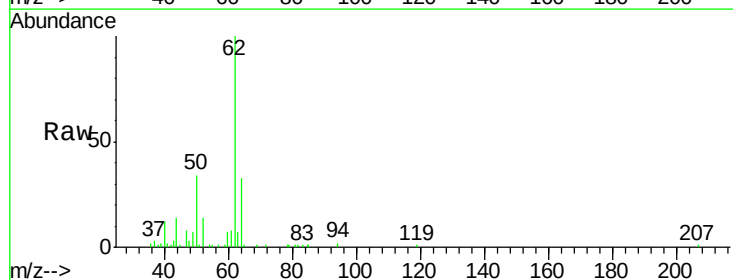
Acq: 4 Mar 2019 20:50

Tgt Ion: 62 Resp: 76898

Ion Ratio Lower Upper

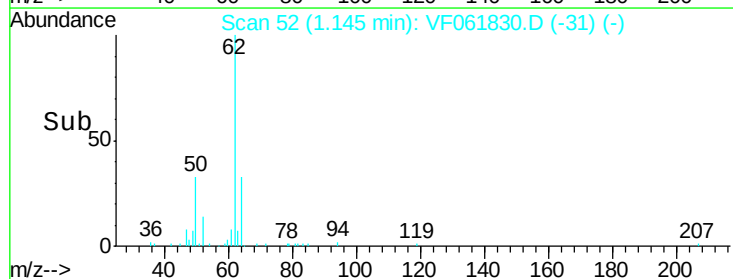
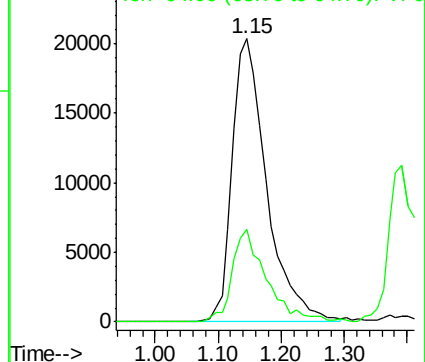
62 100

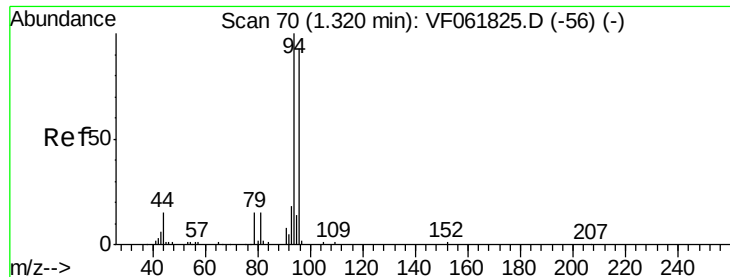
64 32.5 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 21.867 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

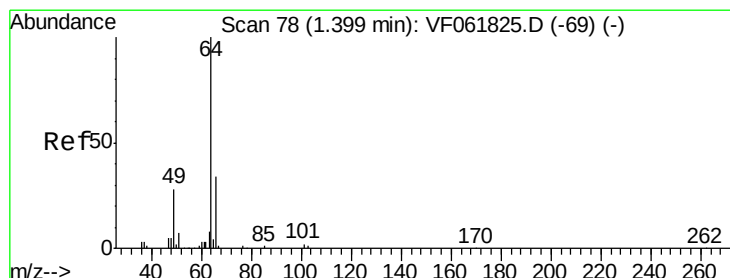
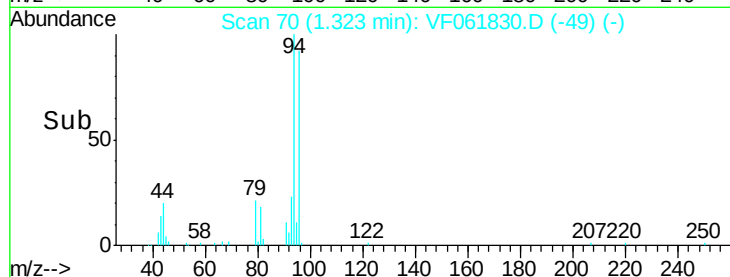
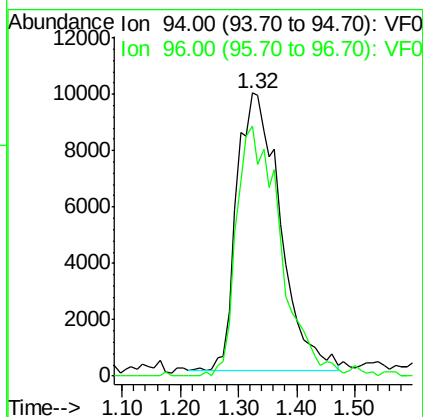
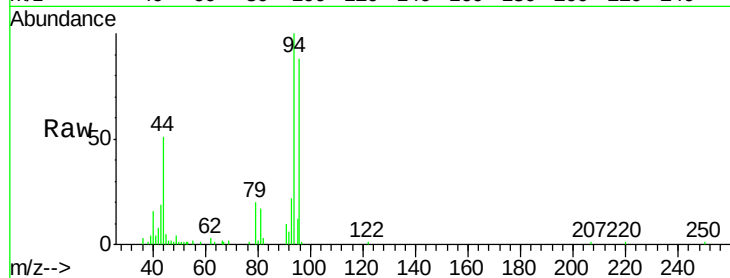
VF0304SBS01

Tot Ion: 94 Resp: 51740

Ion Ratio Lower Upper

94 100

96 88.4 74.6 112.0



#6

Chloroethane

Concen: 21.544 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061830.D

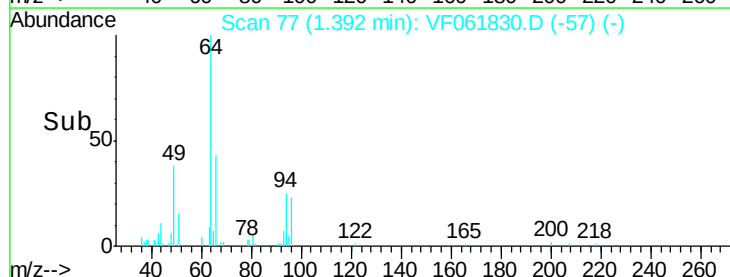
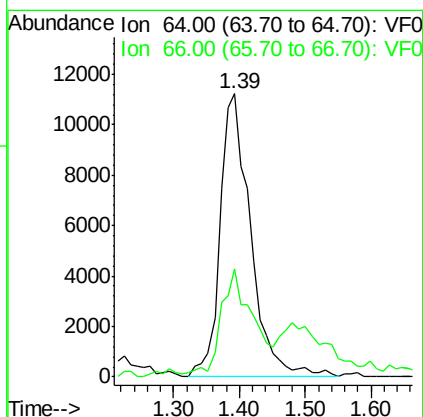
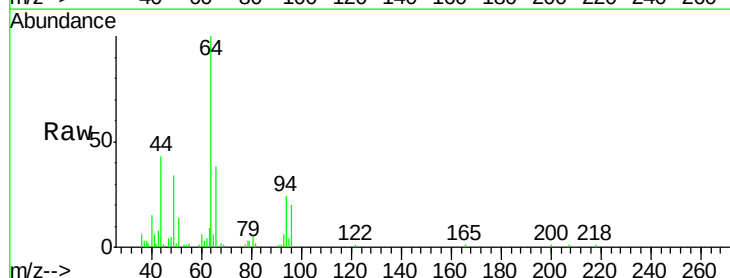
Acq: 4 Mar 2019 20:50

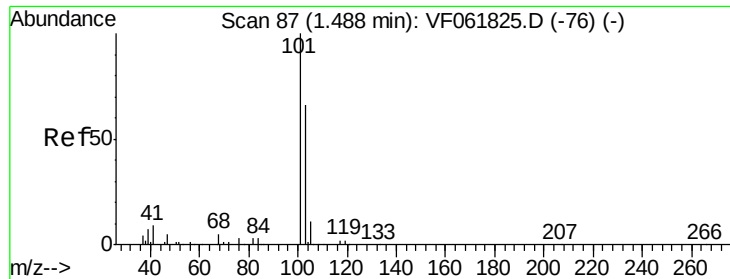
Tgt Ion: 64 Resp: 36501

Ion Ratio Lower Upper

64 100

66 38.3 27.9 41.9





#7

Trichlorofluoromethane

Concen: 3.643 ug/l

RT: 1.43 min Scan# 81

Delta R.T. -0.05 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

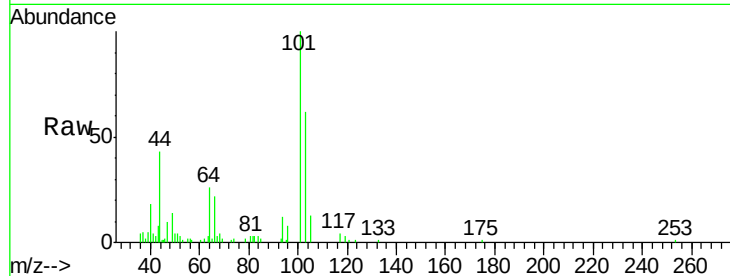
VF0304SBS01

Tot Ion:101 Resp: 15106

Ion Ratio Lower Upper

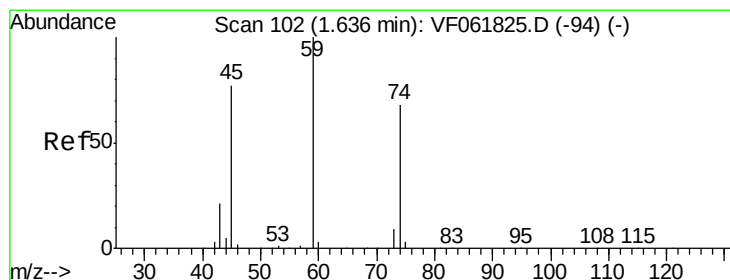
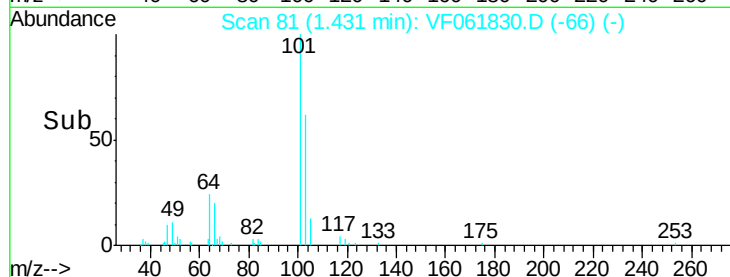
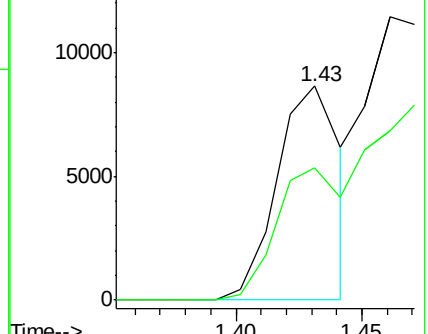
101 100

103 61.7 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 21.383 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061830.D

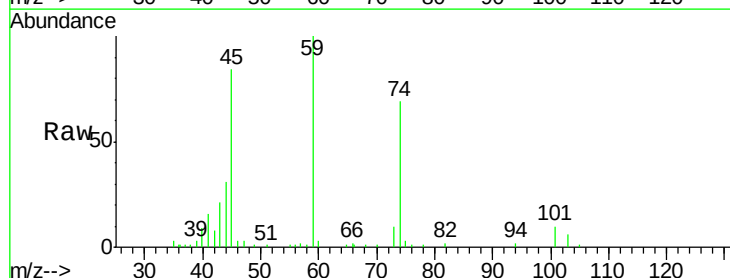
Acq: 4 Mar 2019 20:50

Tgt Ion: 74 Resp: 22345

Ion Ratio Lower Upper

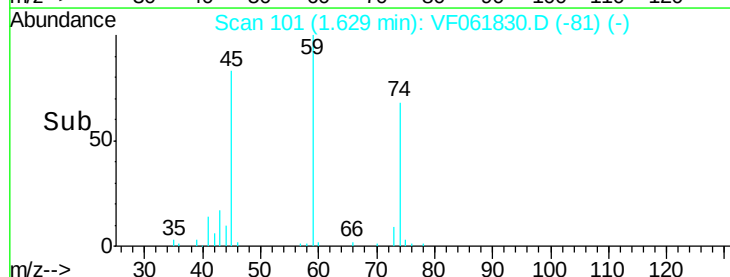
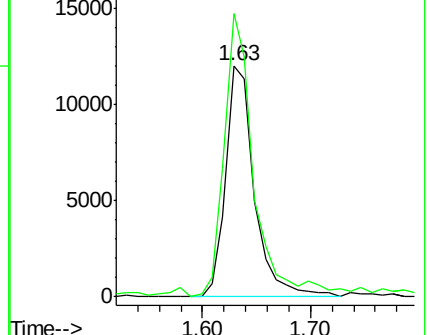
74 100

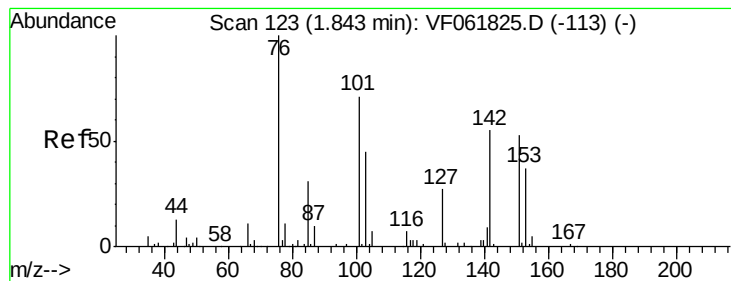
45 122.5 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.638 ug/l

RT: 1.84 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

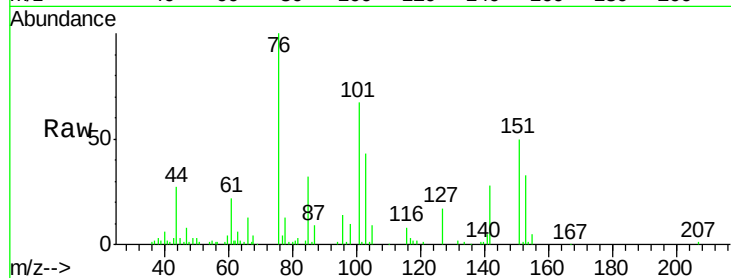
Tot Ion:101 Resp: 64727

Ion Ratio Lower Upper

101 100

85 47.3 29.8 44.6#

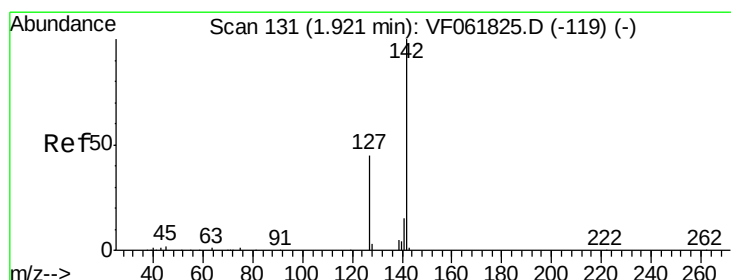
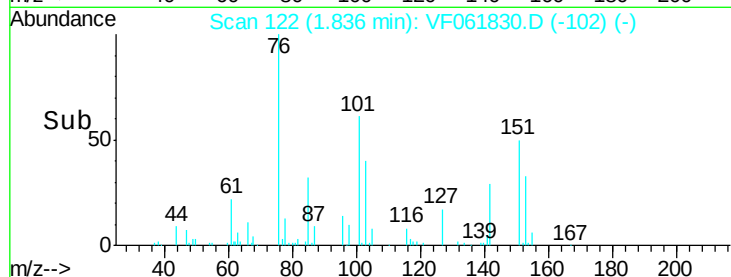
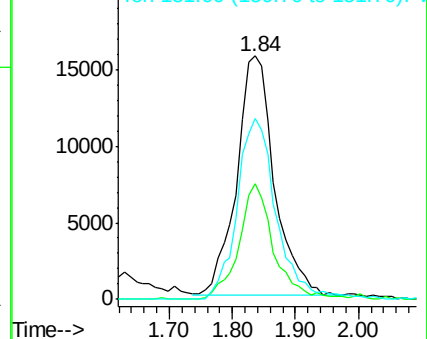
151 74.1 56.3 84.5



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: 17.206 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

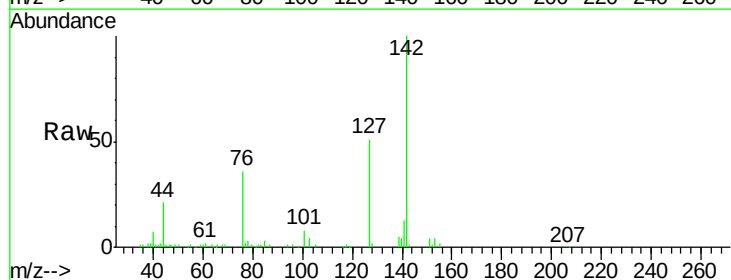
Tgt Ion:142 Resp: 98317

Ion Ratio Lower Upper

142 100

127 51.0 36.6 55.0

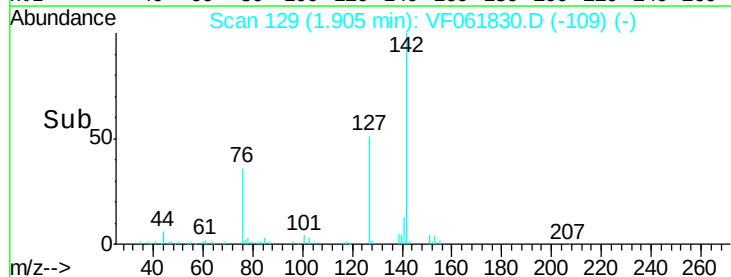
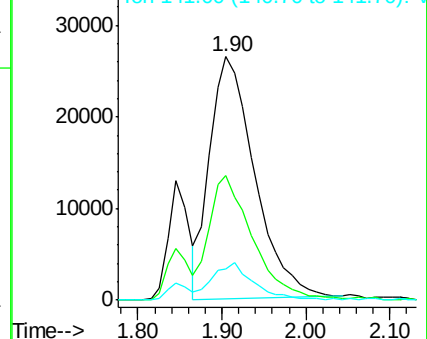
141 12.6 11.0 16.6

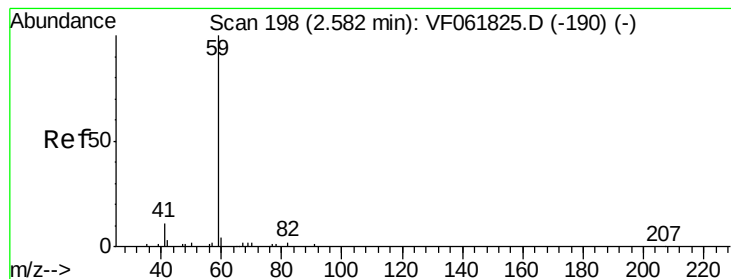


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#11

Tert butyl alcohol

Concen: 122.228 ug/l

RT: 2.59 min Scan# 198

Delta R.T. 0.00 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

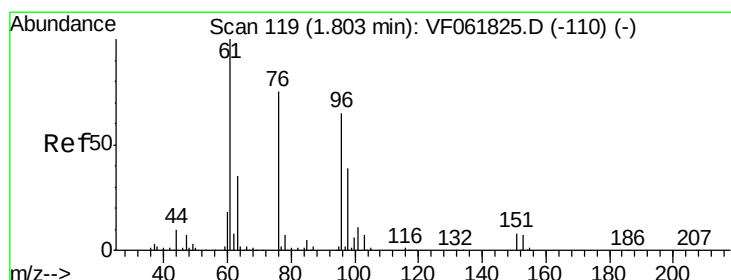
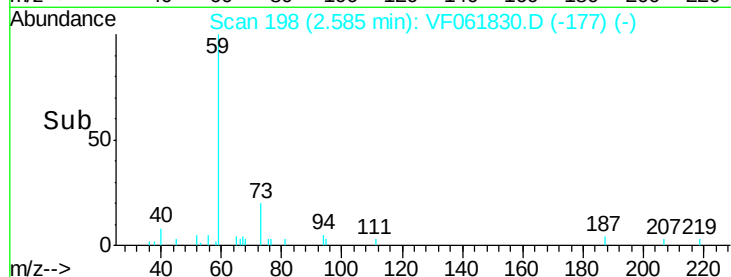
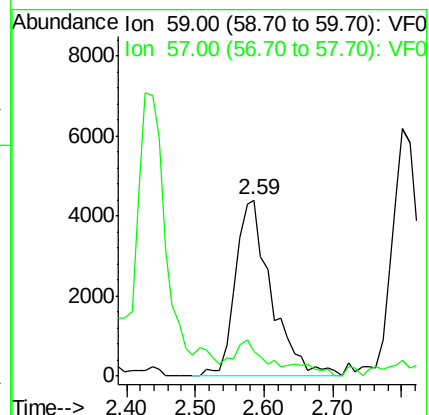
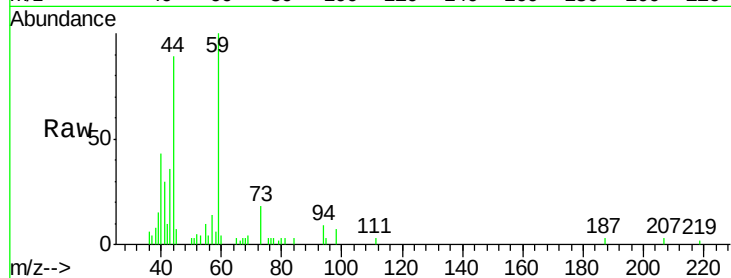
VF0304SBS01

Tot Ion: 59 Resp: 15921

Ion Ratio Lower Upper

59 100

57 14.2 12.5 18.7



#12

1,1-Dichloroethene

Concen: 22.221 ug/l

RT: 1.80 min Scan# 118

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

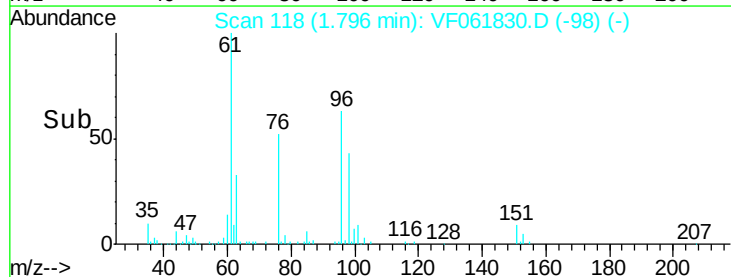
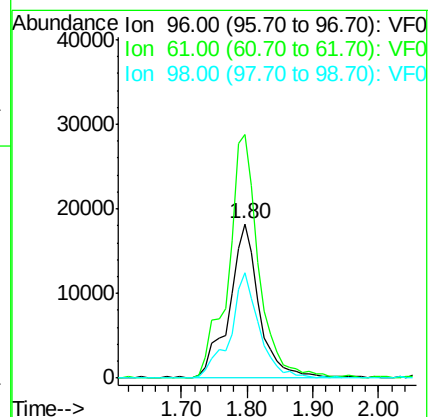
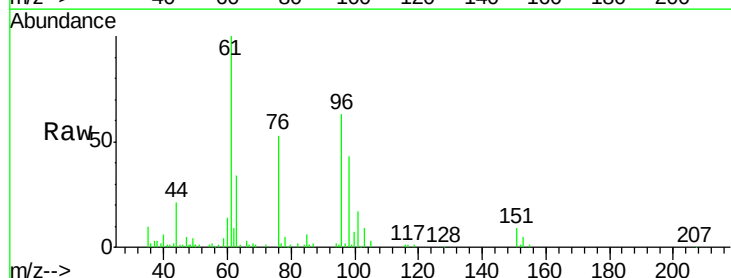
Tgt Ion: 96 Resp: 58443

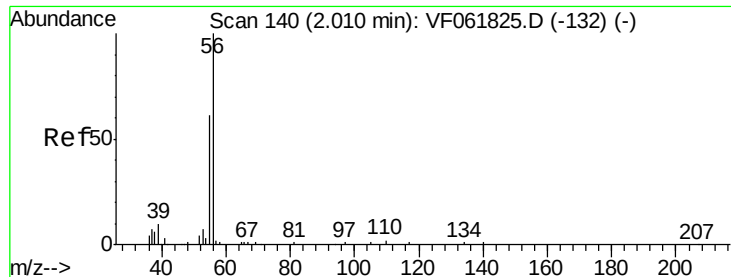
Ion Ratio Lower Upper

96 100

61 157.5 122.6 184.0

98 67.8 47.2 70.8





#13

Acrolein

Concen: 108.454 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

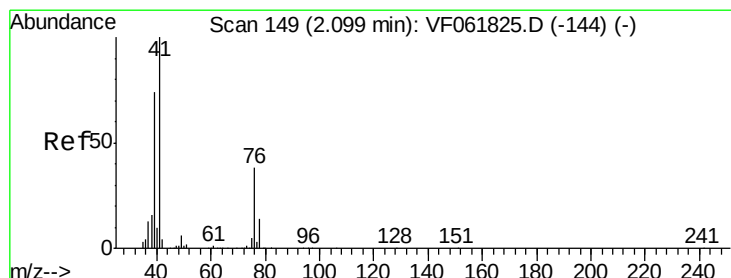
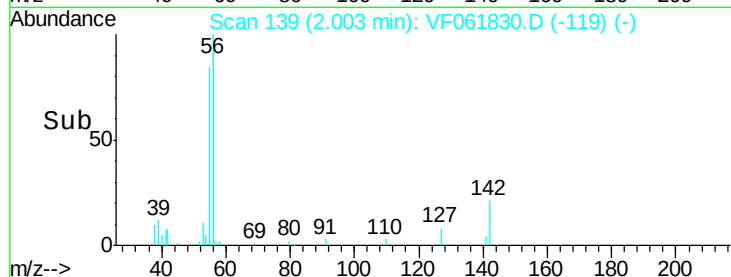
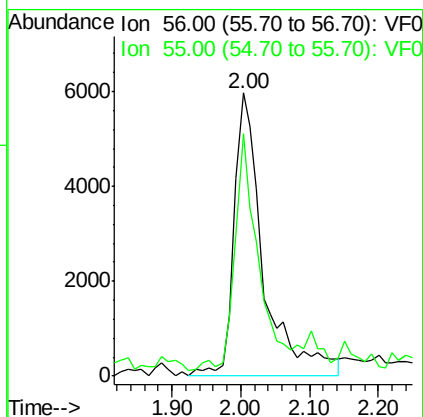
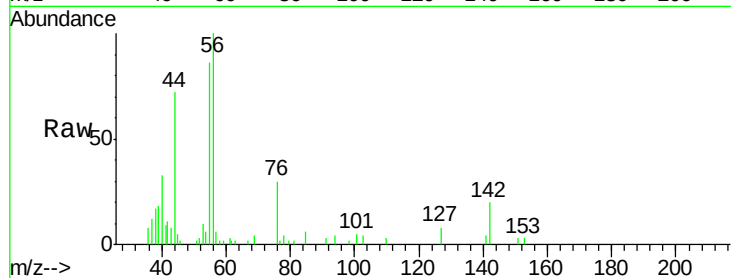
VF0304SBS01

Tot Ion: 56 Resp: 17755

Ion Ratio Lower Upper

56 100

55 85.7 55.0 82.6#



#14

Allyl chloride

Concen: 22.904 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

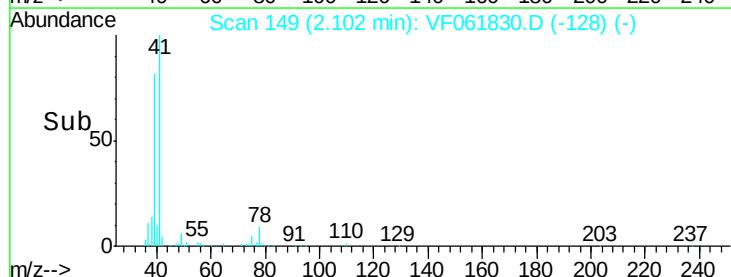
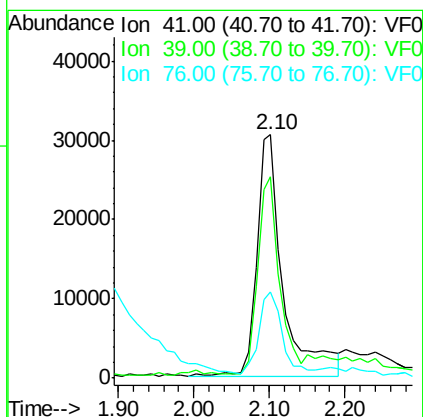
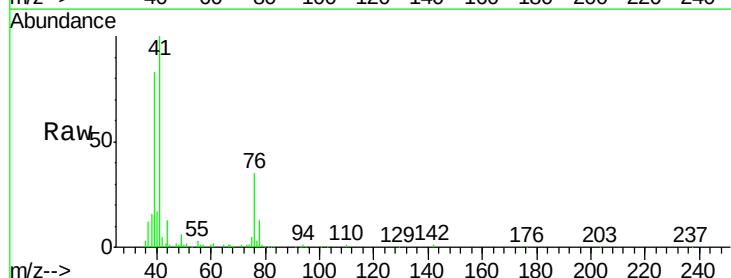
Tgt Ion: 41 Resp: 73920

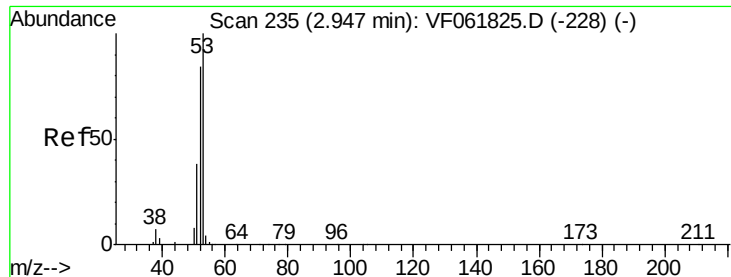
Ion Ratio Lower Upper

41 100

39 82.6 61.6 92.4

76 35.2 30.3 45.5





#15

Acrylonitrile

Concen: 101.204 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

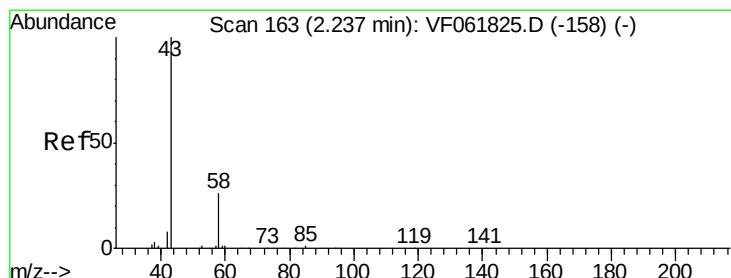
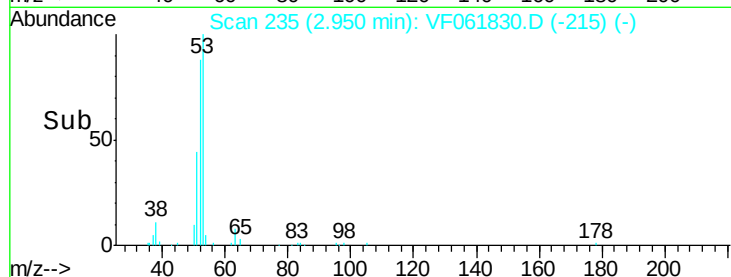
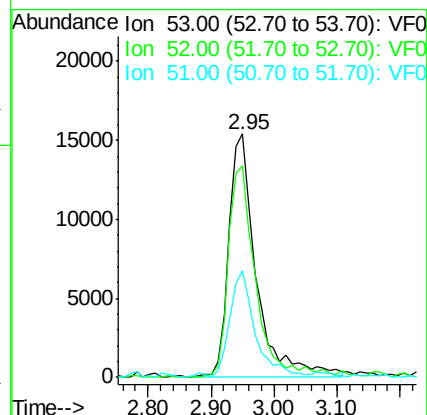
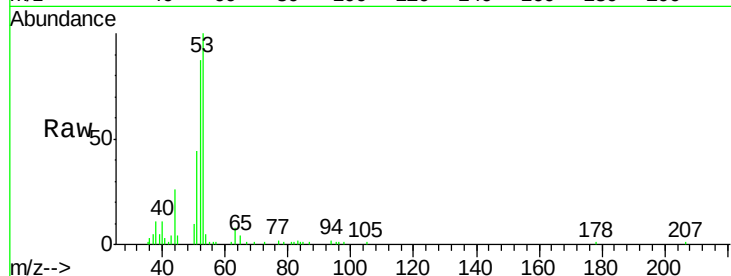
Tot Ion: 53 Resp: 46759

Ion	Ratio	Lower	Upper
53	100		
52	87.0	64.6	97.0
51	43.7	29.8	44.8

53 100

52 87.0 64.6 97.0

51 43.7 29.8 44.8



#16

Acetone

Concen: 97.635 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061830.D

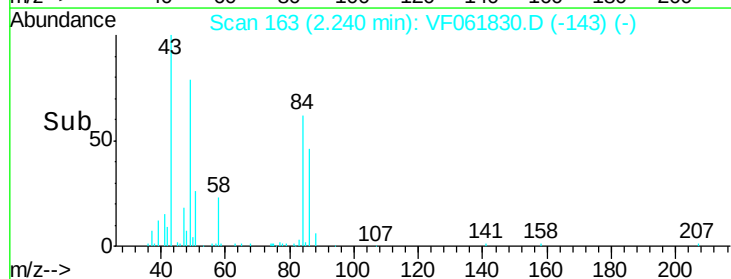
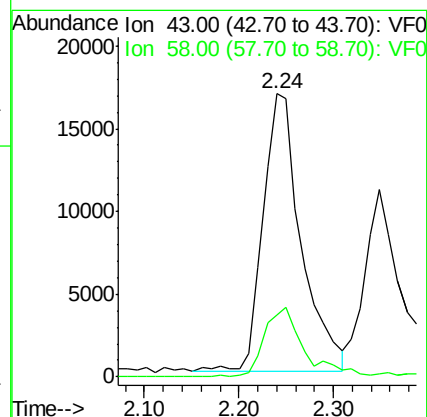
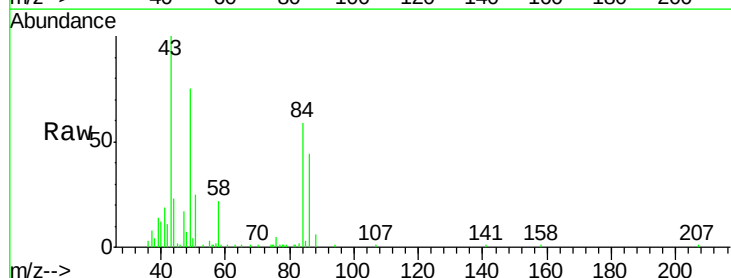
Acq: 4 Mar 2019 20:50

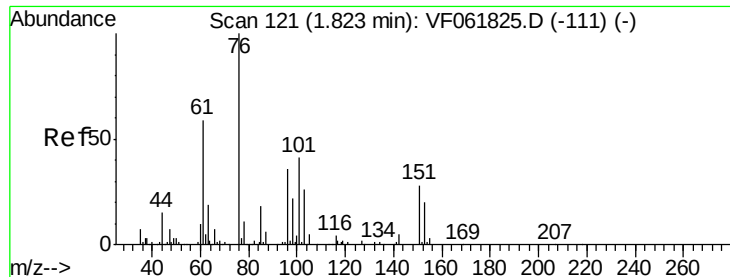
Tgt Ion: 43 Resp: 47148

Ion	Ratio	Lower	Upper
43	100		
58	21.8	22.9	34.3#

43 100

58 21.8 22.9 34.3#





#17

Carbon Disulfide

Concen: 17.125 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

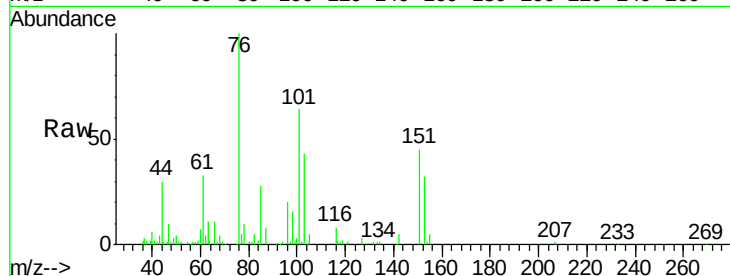
VF0304SBS01

Tot Ion: 76 Resp: 141574

Ion Ratio Lower Upper

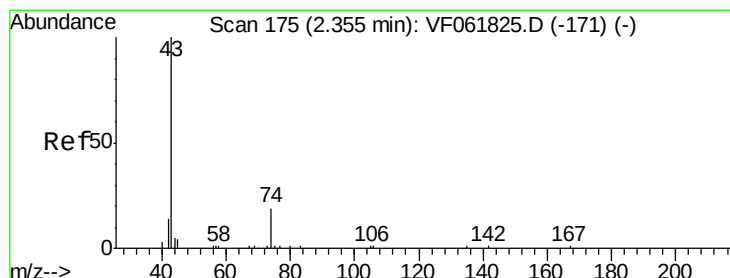
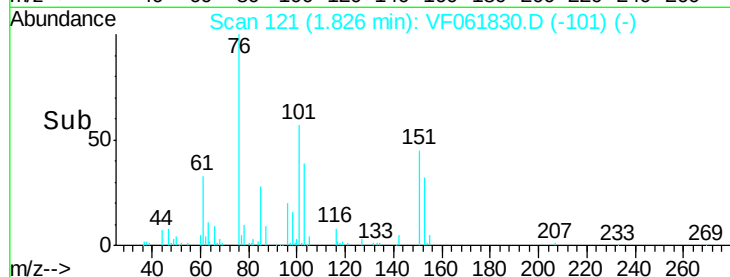
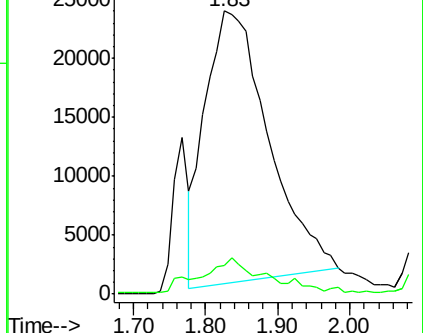
76 100

78 10.2 7.9 11.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 22.717 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061830.D

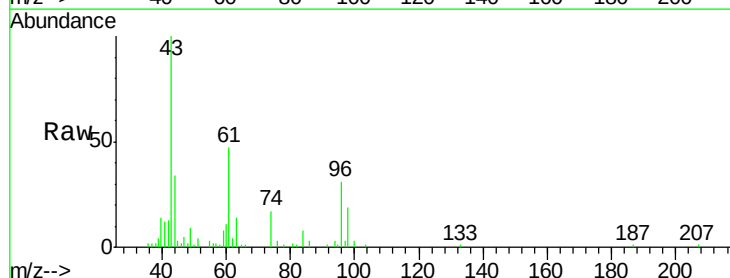
Acq: 4 Mar 2019 20:50

Tgt Ion: 43 Resp: 24713

Ion Ratio Lower Upper

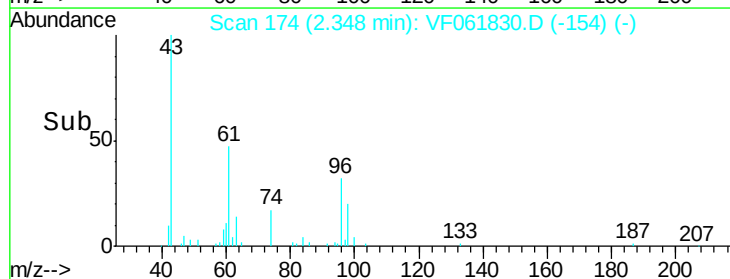
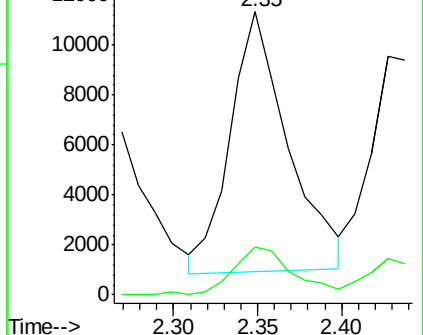
43 100

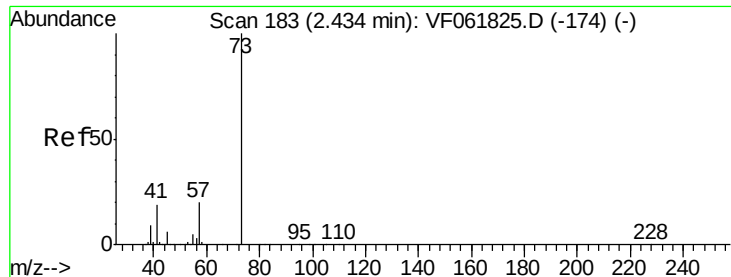
74 16.9 14.6 21.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



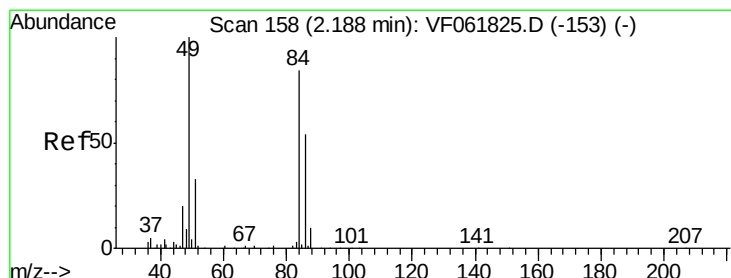
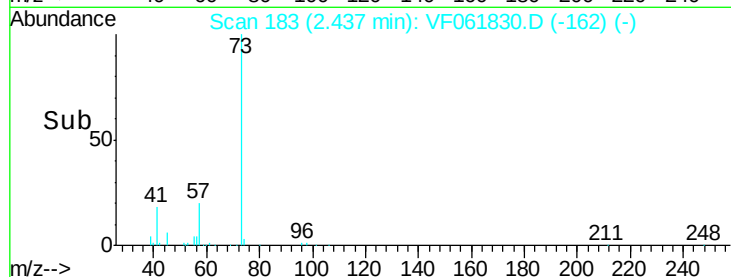
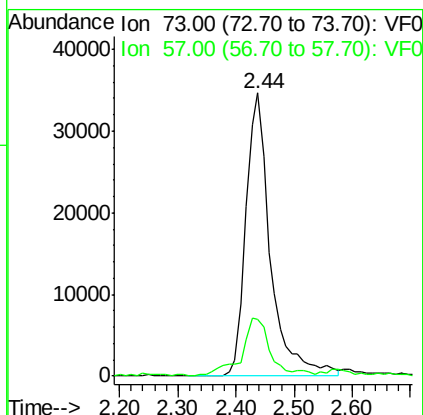
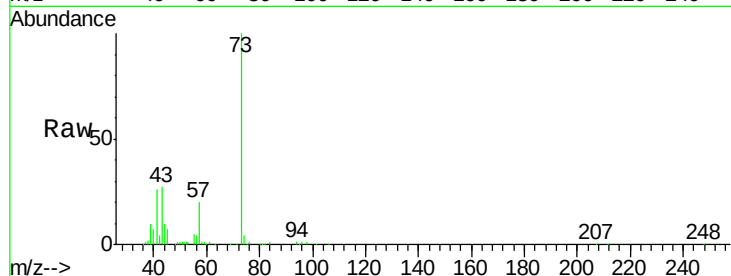


#19

Methyl tert-butyl Ether
 Concen: 22.789 ug/l
 RT: 2.44 min Scan# 183
 Delta R.T. 0.00 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

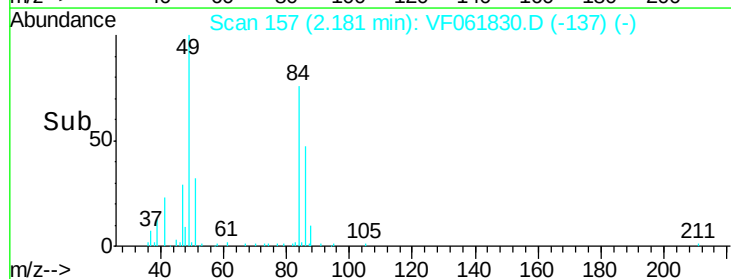
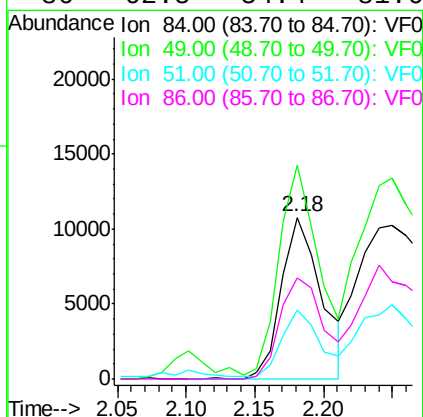
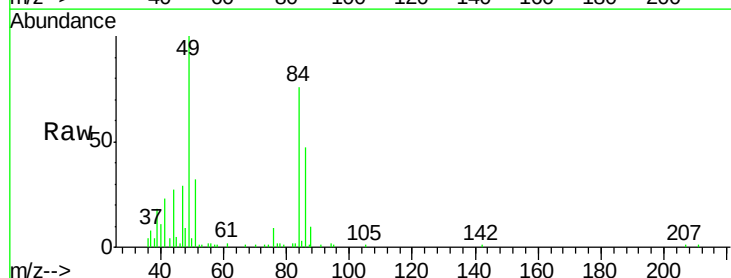
Tot Ion: 73 Resp: 102431
 Ion Ratio Lower Upper
 73 100
 57 20.3 15.8 23.8

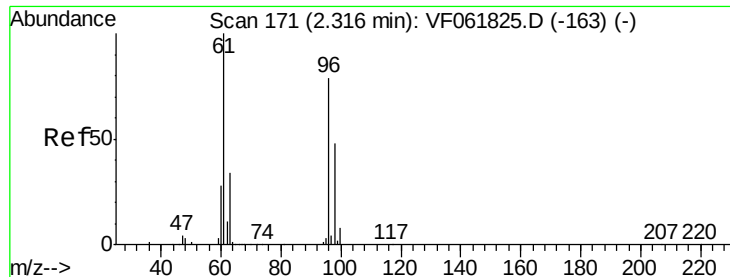


#20

Methylene Chloride
 Concen: 7.499 ug/l
 RT: 2.18 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion: 84 Resp: 21876
 Ion Ratio Lower Upper
 84 100
 49 131.9 101.8 152.8
 51 42.7 31.1 46.7
 86 62.5 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 20.306 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

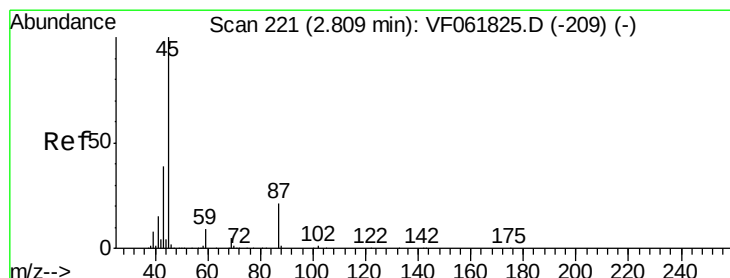
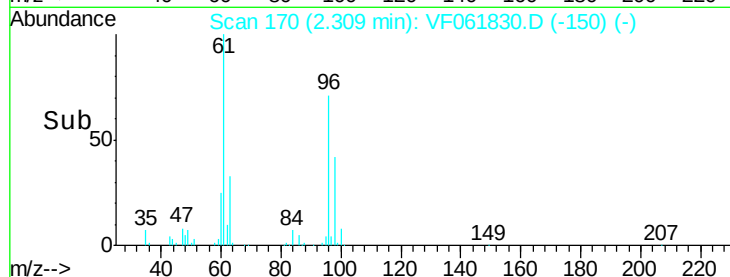
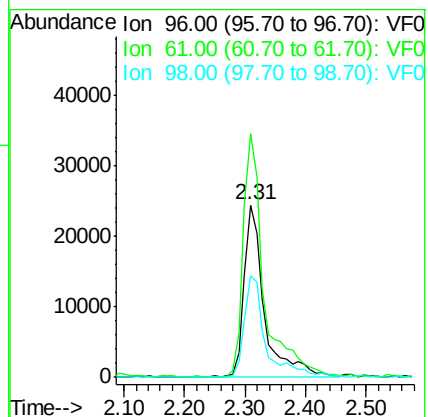
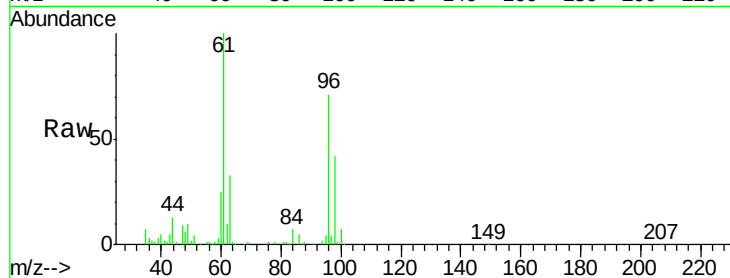
Tot Ion: 96 Resp: 58056

Ion Ratio Lower Upper

96 100

61 141.2 108.2 162.4

98 58.6 52.2 78.2



#22

Diisopropyl ether

Concen: 22.465 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Tgt Ion: 45 Resp: 174034

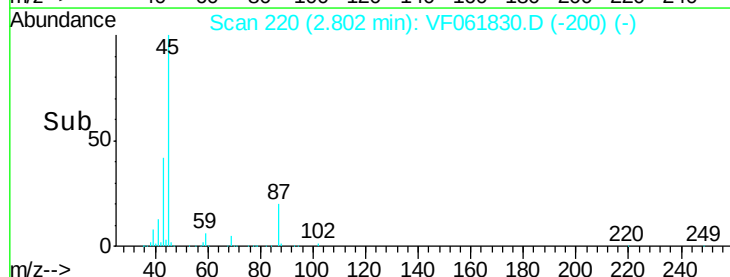
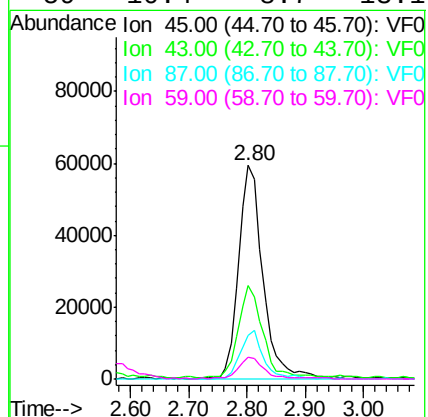
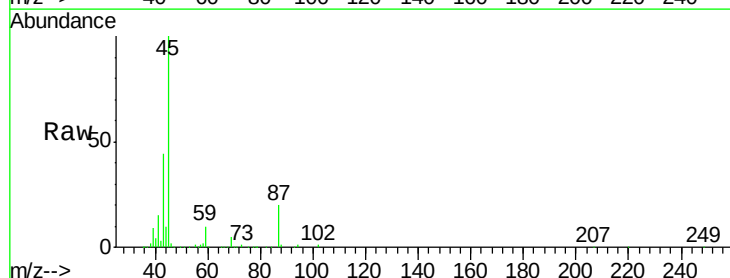
Ion Ratio Lower Upper

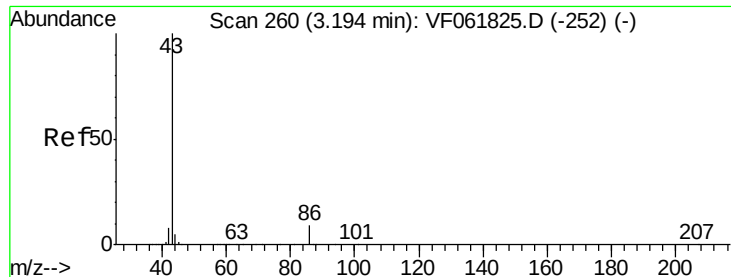
45 100

43 43.6 31.4 47.2

87 20.3 16.3 24.5

59 10.4 8.7 13.1





#23

Vinyl Acetate

Concen: 104.843 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

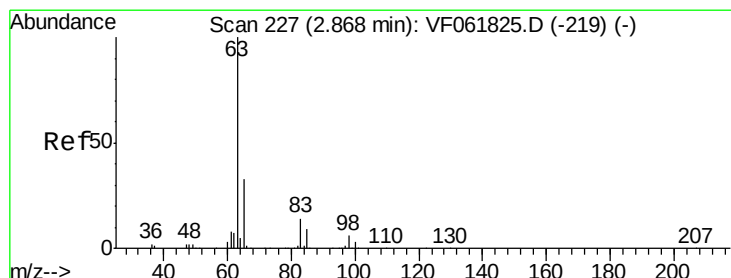
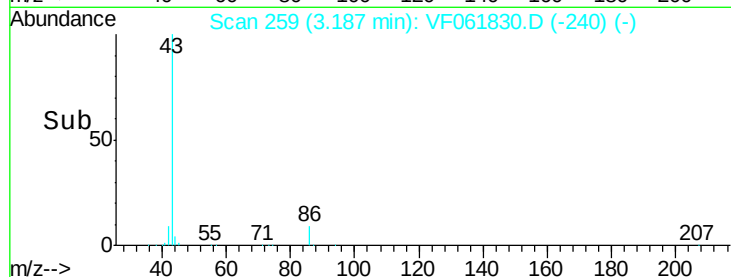
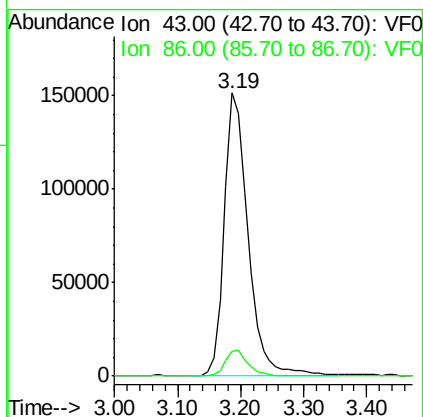
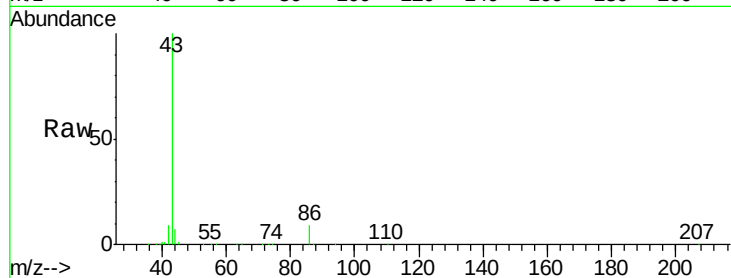
VF0304SBS01

Tot Ion: 43 Resp: 396707

Ion Ratio Lower Upper

43 100

86 8.8 7.5 11.3



#24

1,1-Dichloroethane

Concen: 20.442 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

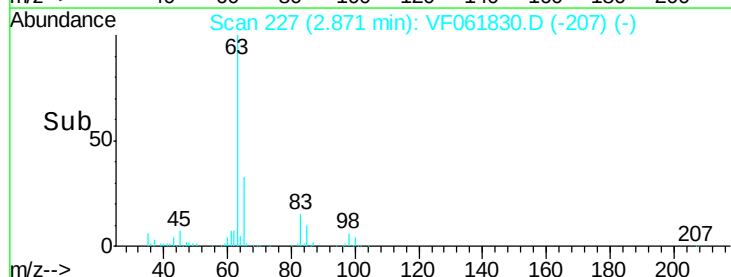
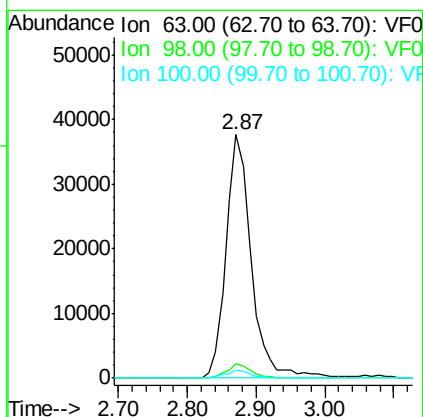
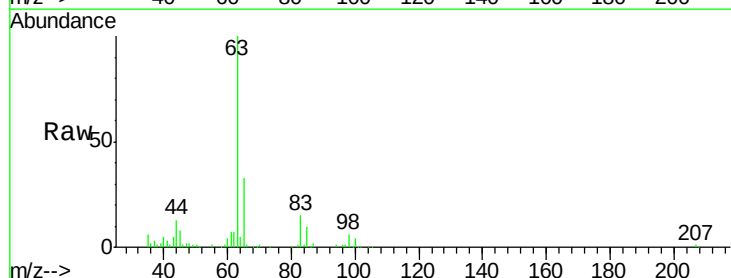
Tgt Ion: 63 Resp: 95838

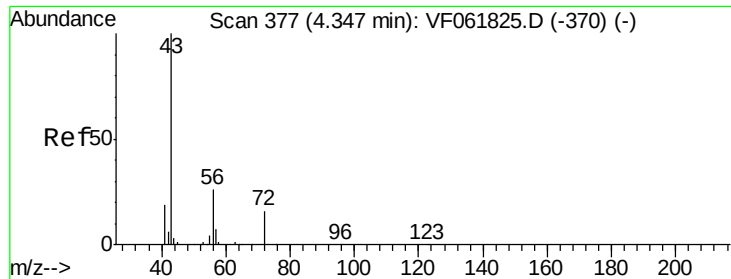
Ion Ratio Lower Upper

63 100

98 6.2 2.8 8.3

100 3.5 1.8 5.4





#25

2-Butanone

Concen: 97.828 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

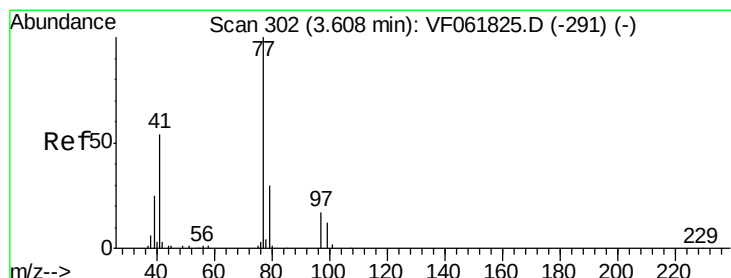
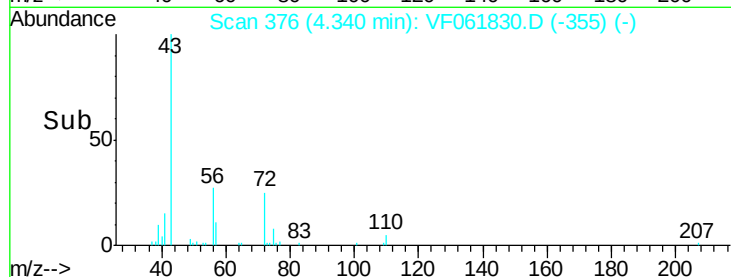
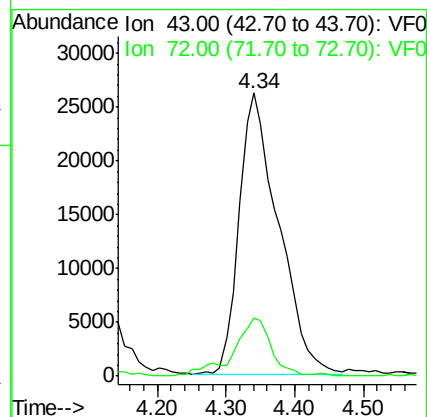
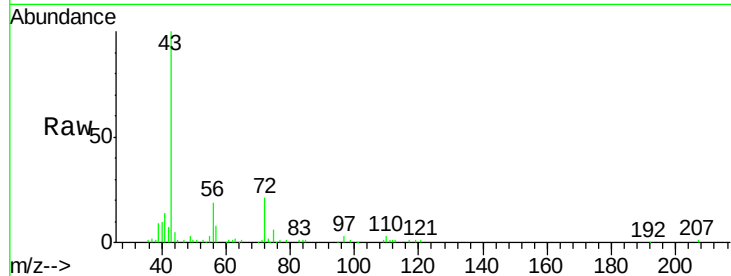
VF0304SBS01

Tot Ion: 43 Resp: 103190

Ion Ratio Lower Upper

43 100

72 20.7 17.1 25.7



#26

2,2-Dichloropropane

Concen: 21.229 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061830.D

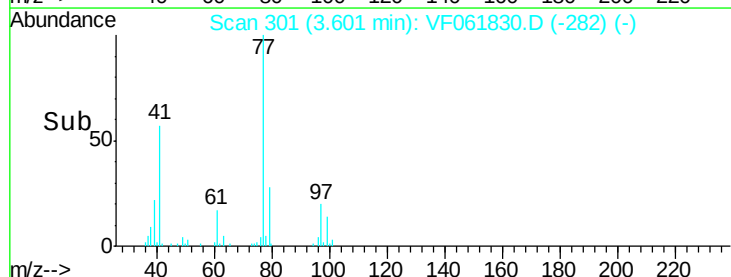
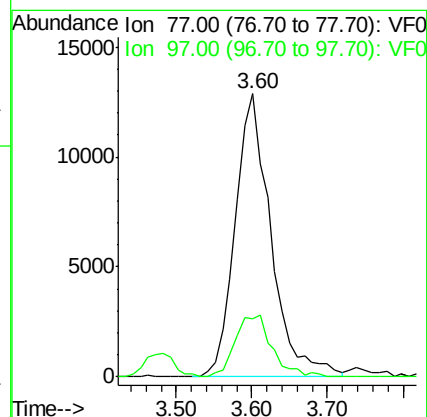
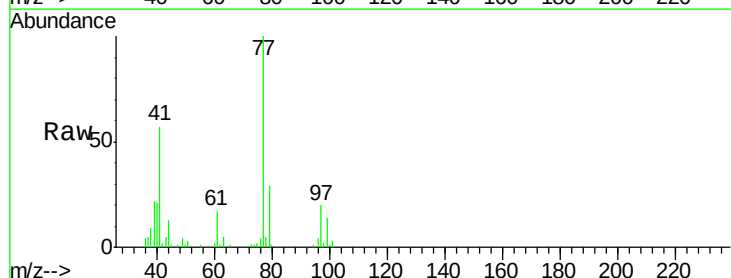
Acq: 4 Mar 2019 20:50

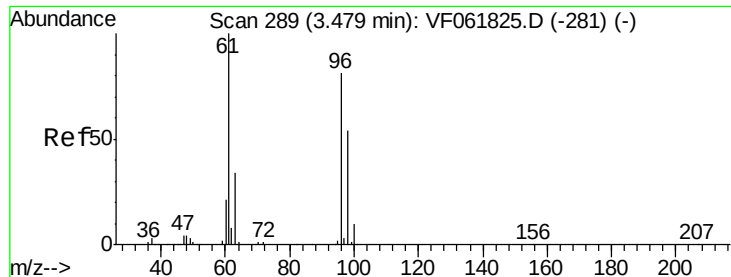
Tgt Ion: 77 Resp: 42157

Ion Ratio Lower Upper

77 100

97 20.4 11.7 35.0



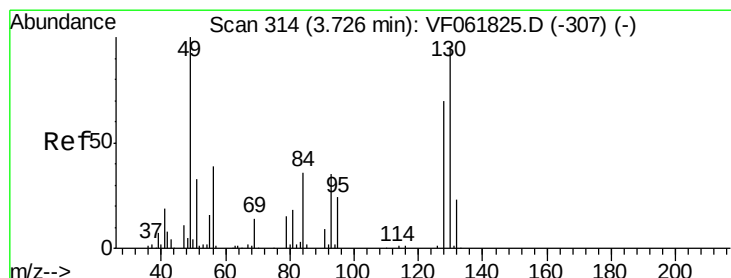
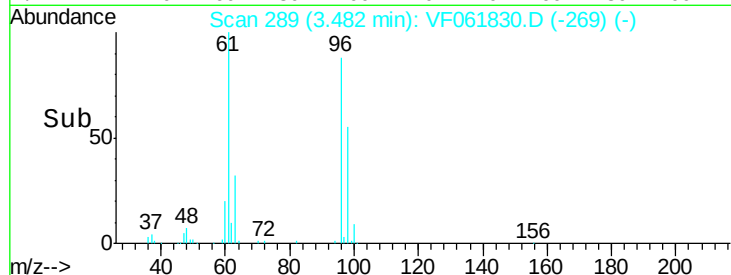
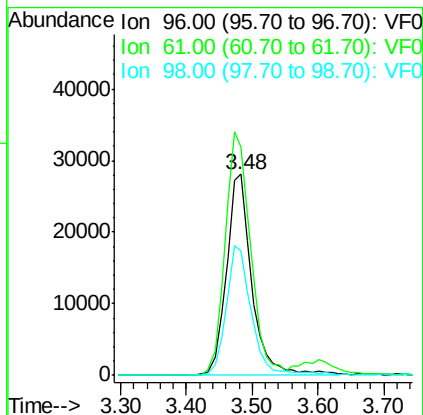
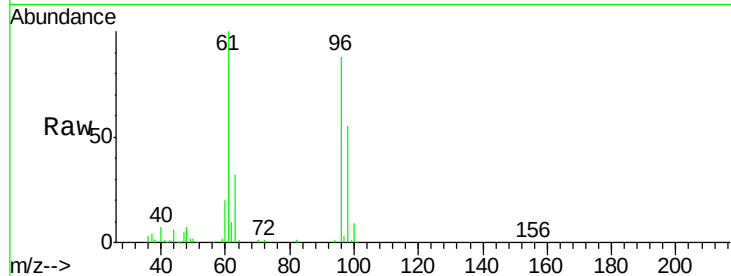


#27

cis-1,2-Dichloroethene
 Concen: 20.195 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

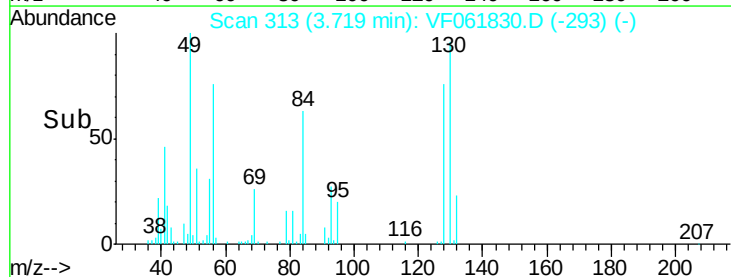
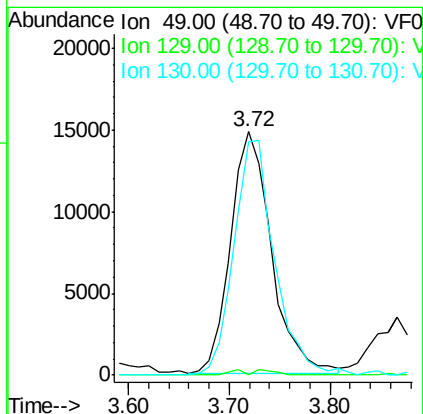
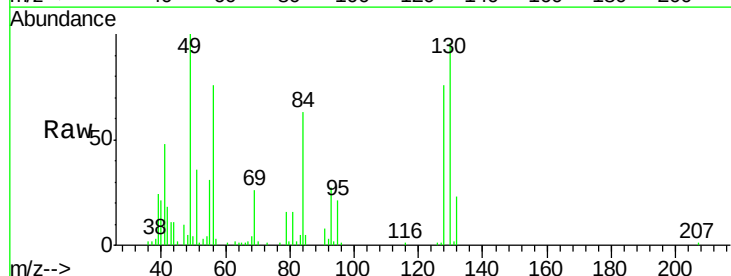
Tot Ion: 96 Resp: 75785
 Ion Ratio Lower Upper
 96 100
 61 113.8 0.0 241.6
 98 62.1 0.0 130.2

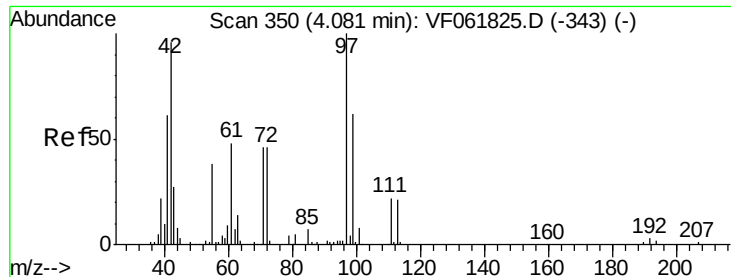


#28

Bromochloromethane
 Concen: 18.489 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion: 49 Resp: 41591
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.4
 130 95.8 77.7 116.5





#29

Tetrahydrofuran

Concen: 100.937 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

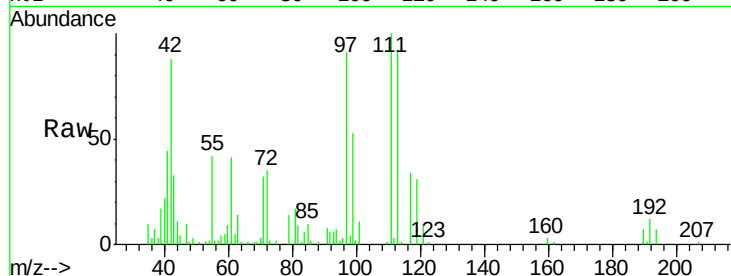
Tot Ion: 42 Resp: 48391

Ion Ratio Lower Upper

42 100

72 39.3 35.2 52.8

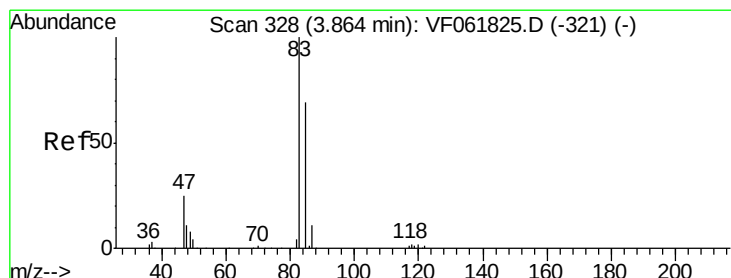
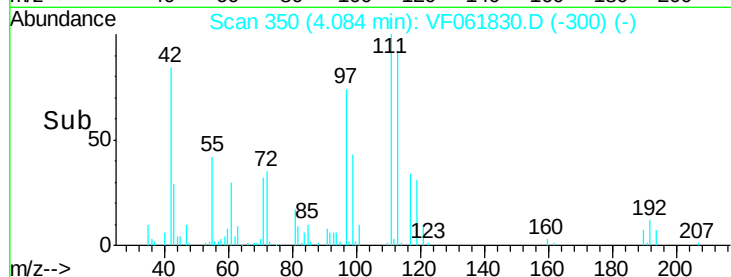
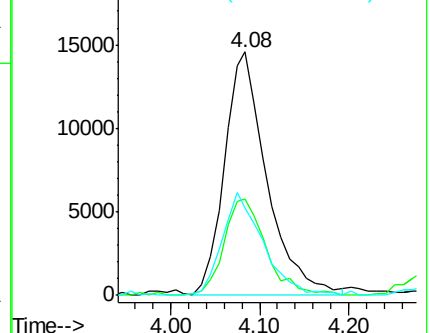
71 40.8 32.9 49.3



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 20.826 ug/l

RT: 3.87 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF061830.D

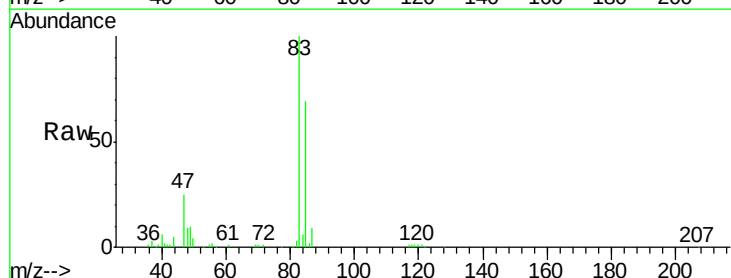
Acq: 4 Mar 2019 20:50

Tgt Ion: 83 Resp: 111034

Ion Ratio Lower Upper

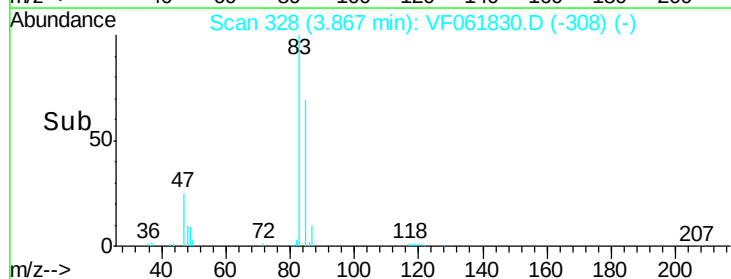
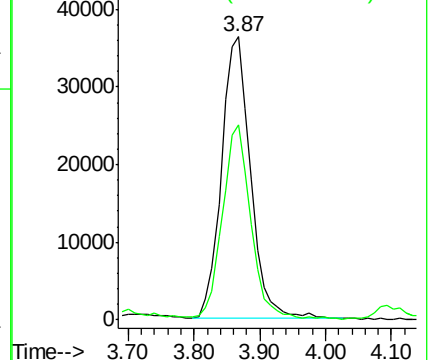
83 100

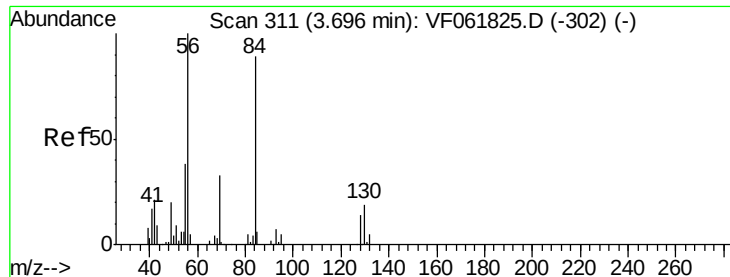
85 68.8 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 13.377 ug/l

RT: 3.69 min Scan# 310

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

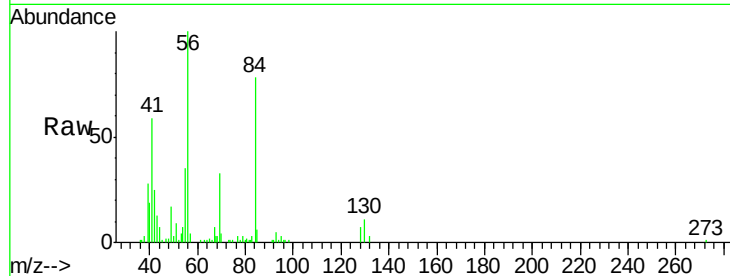
Tot Ion: 56 Resp: 67889

Ion Ratio Lower Upper

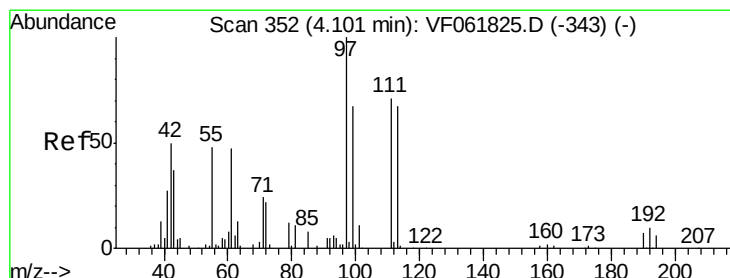
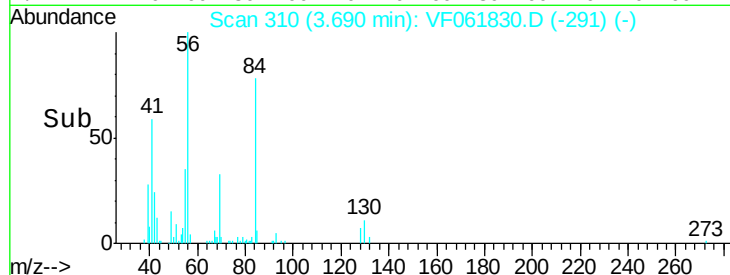
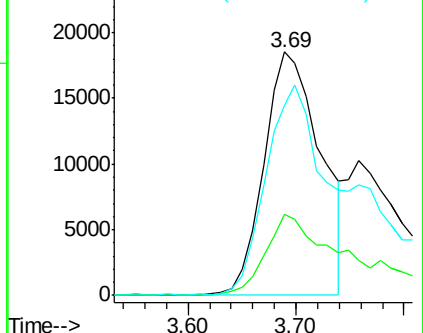
56 100

69 33.1 23.8 35.8

84 77.9 68.6 103.0



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 21.769 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

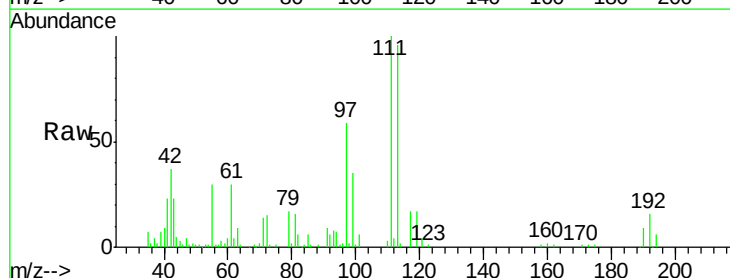
Tgt Ion: 97 Resp: 76027

Ion Ratio Lower Upper

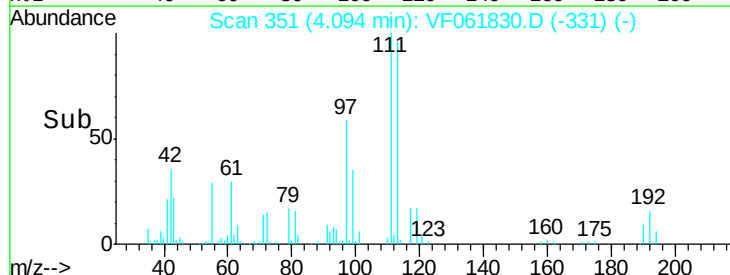
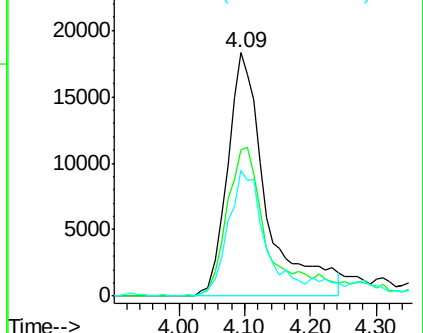
97 100

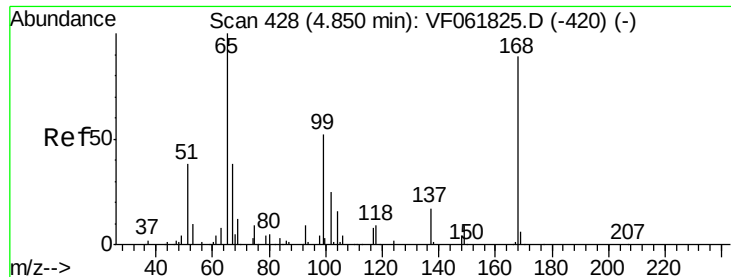
99 60.2 52.2 78.2

61 51.8 39.2 58.8



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 56.128 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

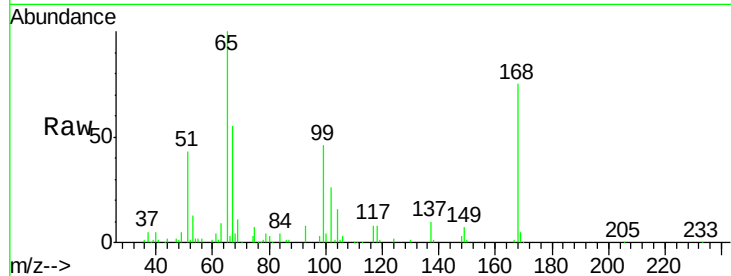
VF0304SBS01

Tot Ion: 65 Resp: 126328

Ion Ratio Lower Upper

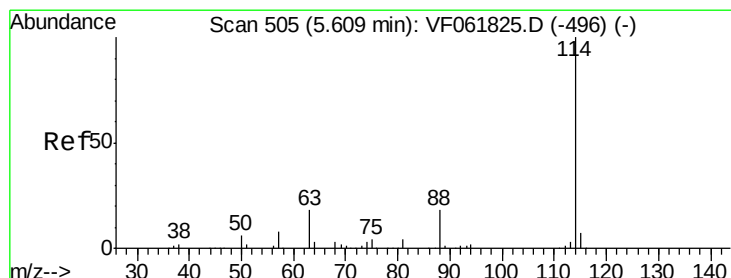
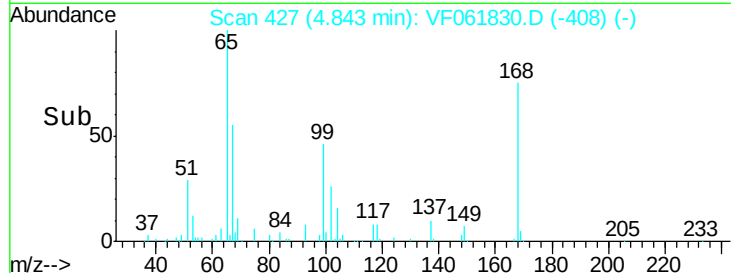
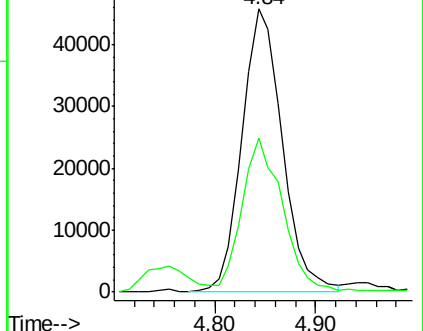
65 100

67 54.6 0.0 104.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

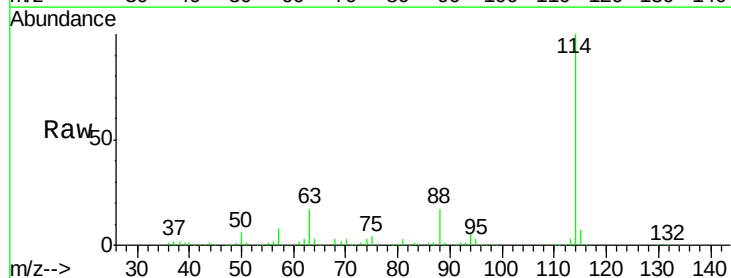
Tgt Ion: 114 Resp: 468657

Ion Ratio Lower Upper

114 100

63 17.5 0.0 36.6

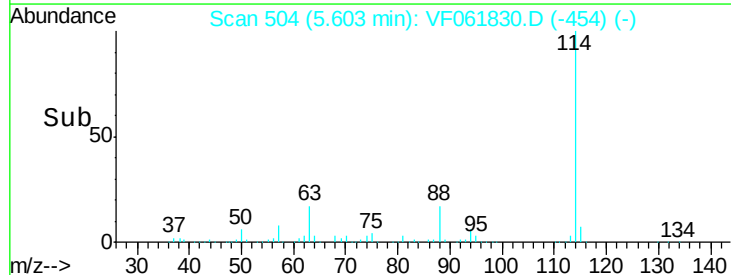
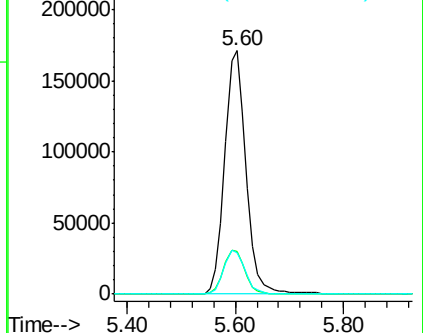
88 17.0 0.0 34.4

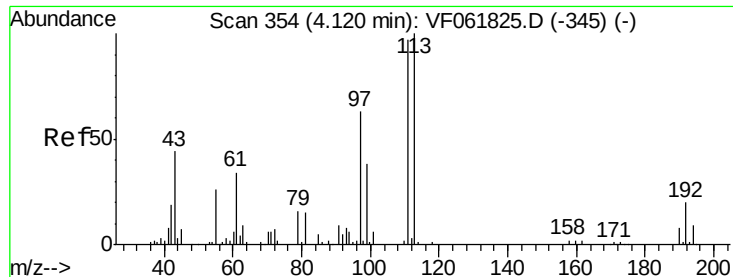


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 52.105 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

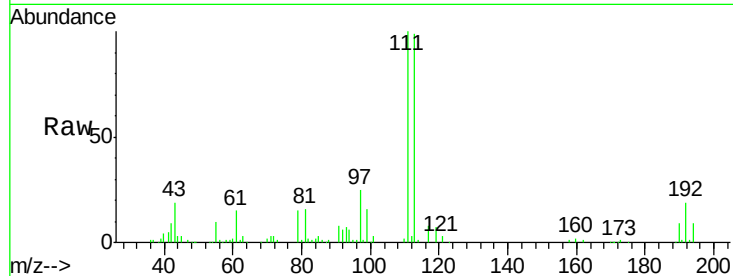
Tot Ion:113 Resp: 181339

Ion Ratio Lower Upper

113 100

111 101.0 78.8 118.2

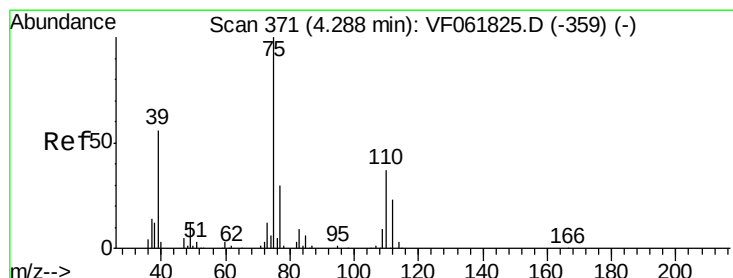
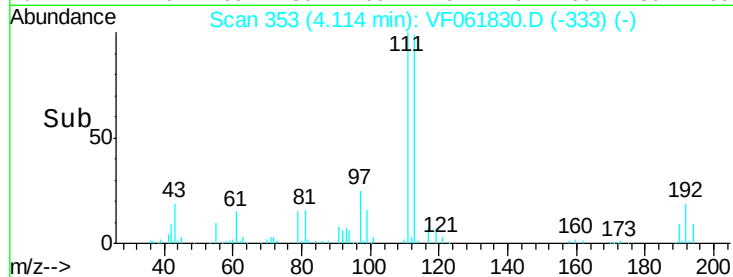
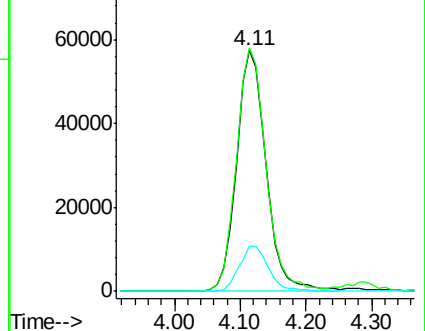
192 18.9 13.4 20.0



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 19.621 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

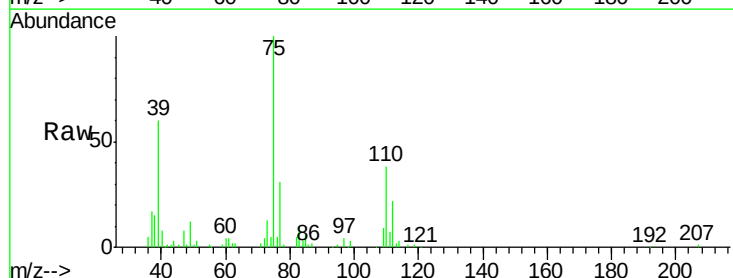
Tgt Ion: 75 Resp: 91092

Ion Ratio Lower Upper

75 100

110 38.5 20.5 61.6

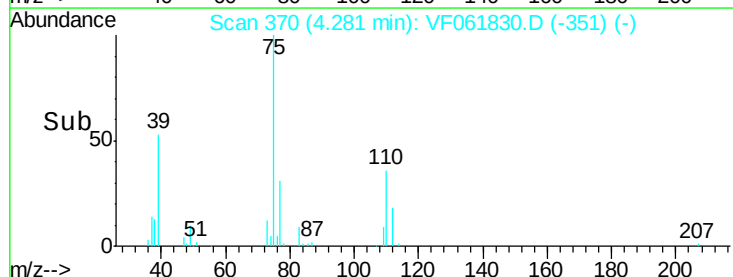
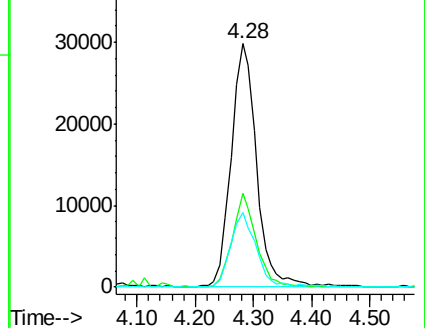
77 30.7 27.0 40.4

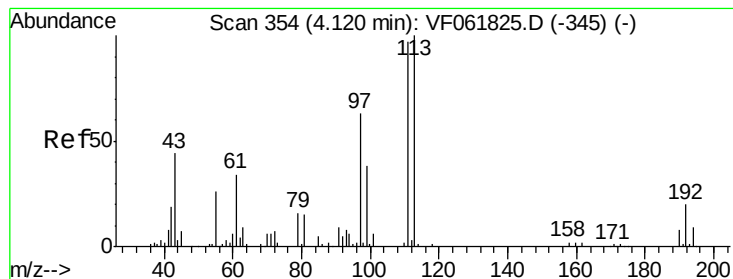


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 20.117 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

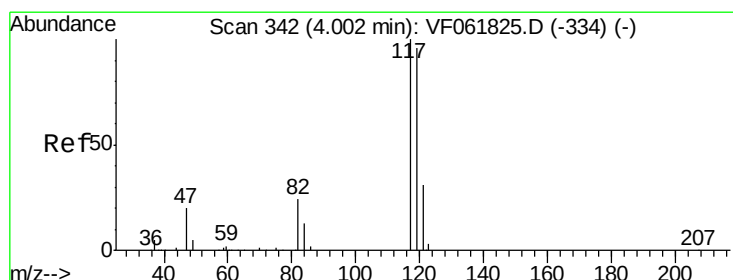
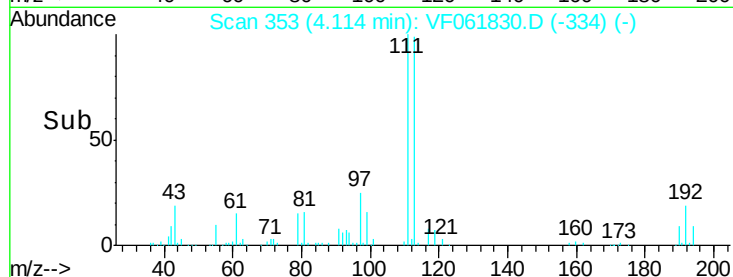
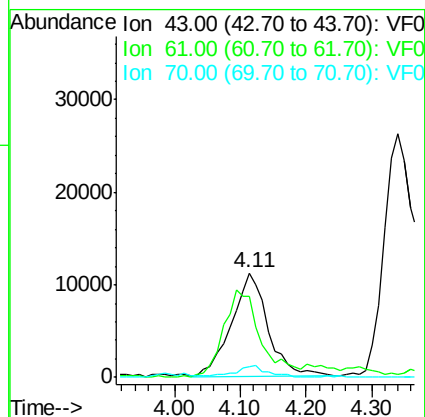
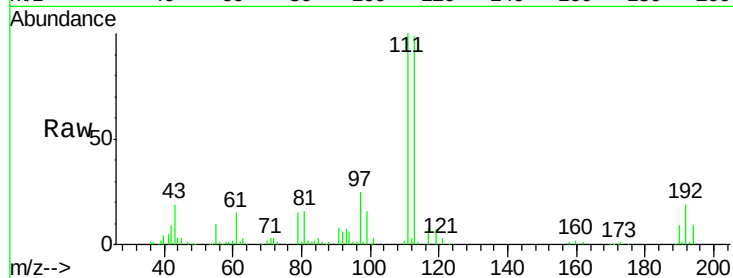
Tot Ion: 43 Resp: 43381

Ion Ratio Lower Upper

43 100

61 77.8 45.7 68.5#

70 10.6 8.5 12.7



#38

Carbon Tetrachloride

Concen: 20.241 ug/l

RT: 4.00 min Scan# 341

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

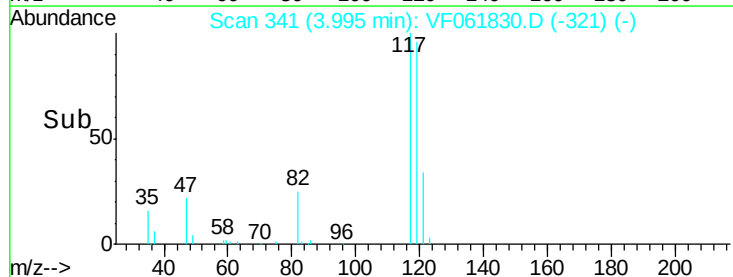
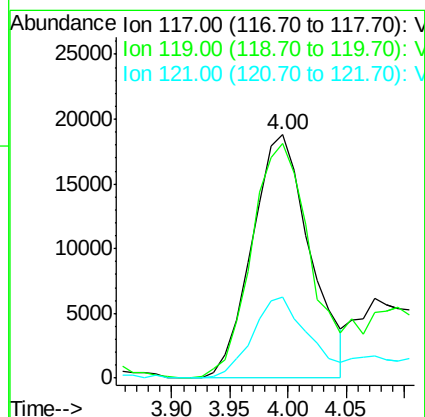
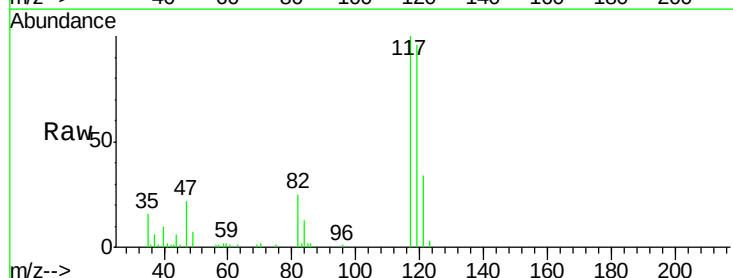
Tgt Ion:117 Resp: 64888

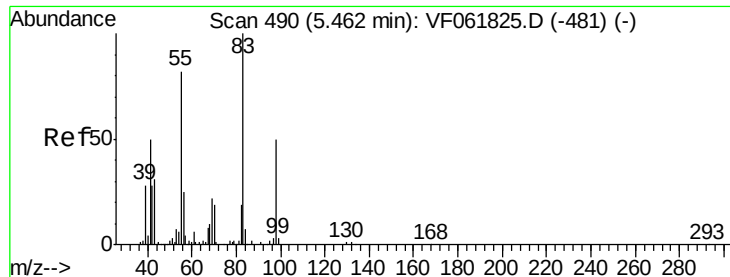
Ion Ratio Lower Upper

117 100

119 96.4 75.6 113.4

121 33.5 25.2 37.8

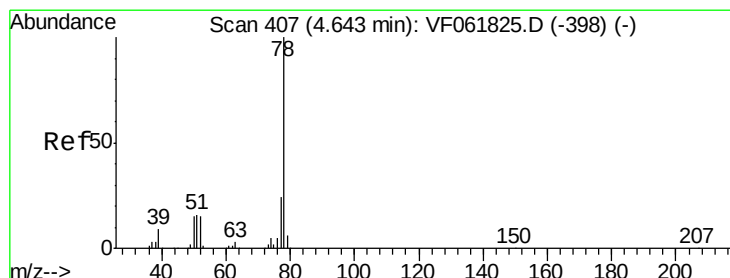
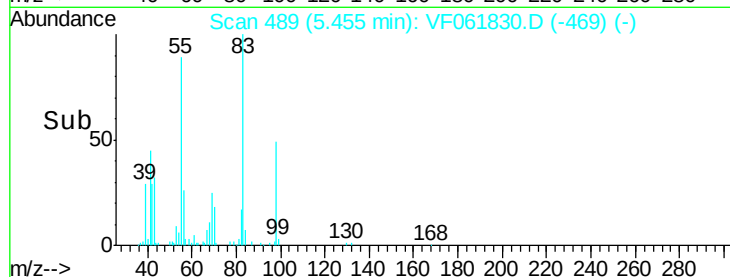
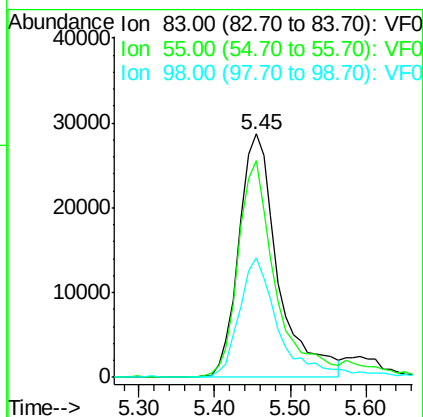
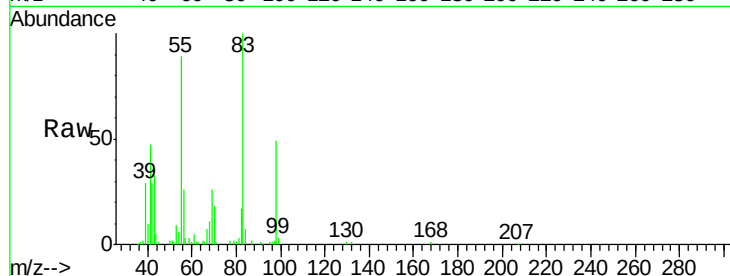




#39
Methylvlcyclohexane
Concen: 18.817 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

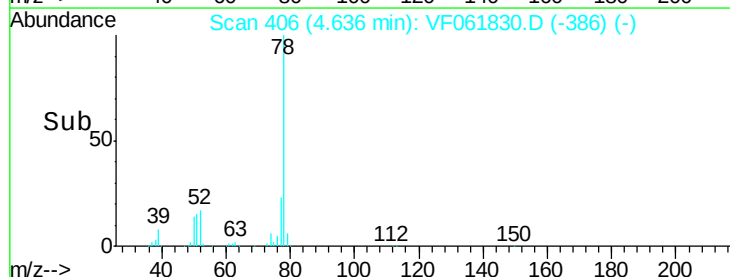
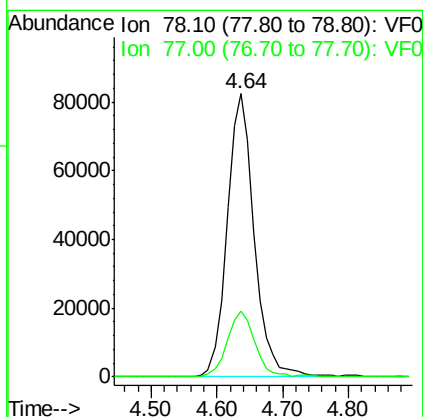
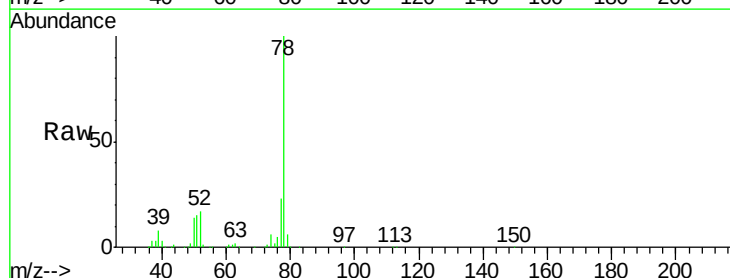
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

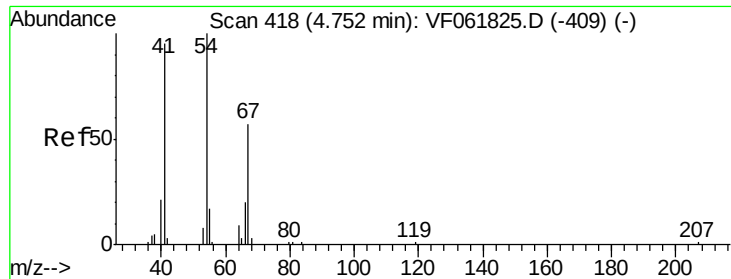
Tot Ion: 83 Resp: 103315
Ion Ratio Lower Upper
83 100
55 89.2 66.6 99.8
98 49.2 40.4 60.6



#40
Benzene
Concen: 19.539 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

Tgt Ion: 78 Resp: 237270
Ion Ratio Lower Upper
78 100
77 23.1 19.0 28.6





#41

Methacrylonitrile

Concen: 19.270 ug/l

RT: 4.75 min Scan# 418

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 41 Resp: 21250

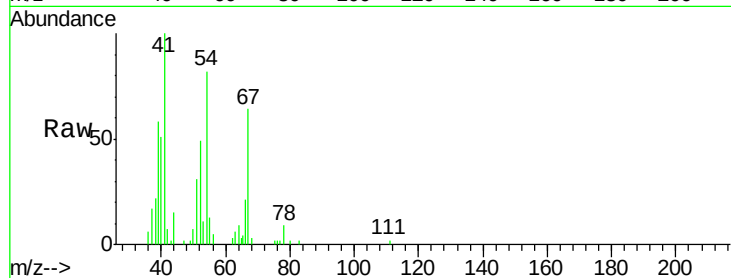
Ion Ratio Lower Upper

41 100

39 57.6 45.3 67.9

67 63.9 49.3 73.9

52 48.7 32.6 49.0

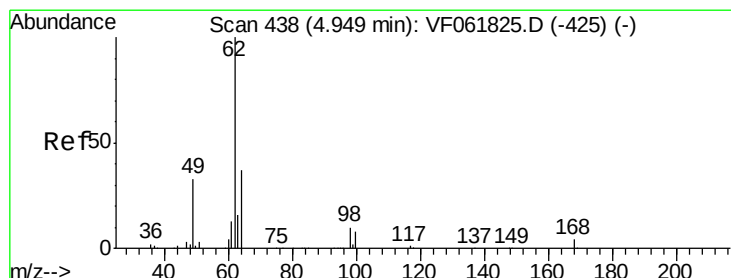
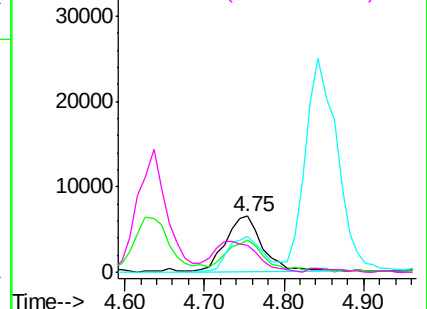
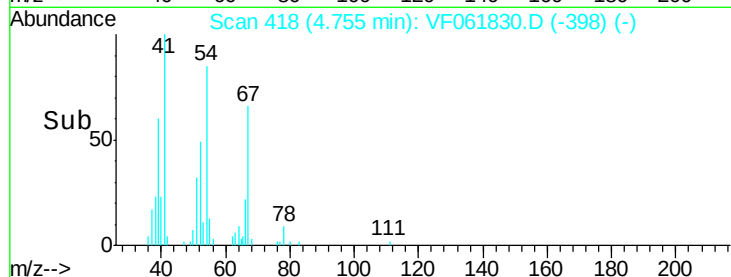


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 20.045 ug/l

RT: 4.94 min Scan# 437

Delta R.T. -0.02 min

Lab File: VF061830.D

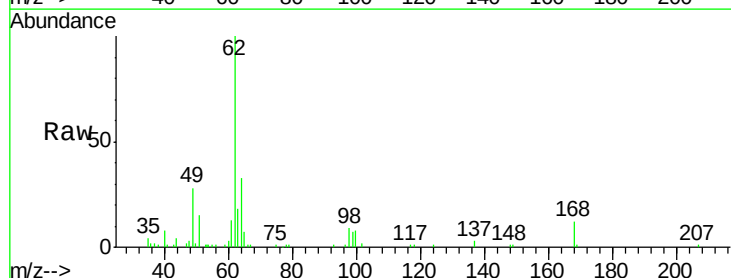
Acq: 4 Mar 2019 20:50

Tgt Ion: 62 Resp: 58227

Ion Ratio Lower Upper

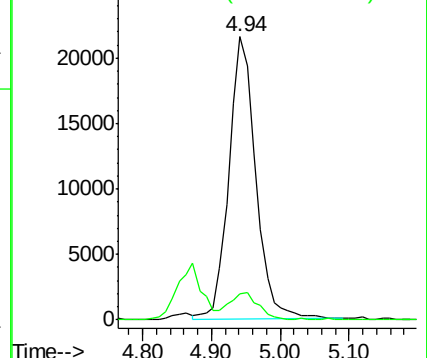
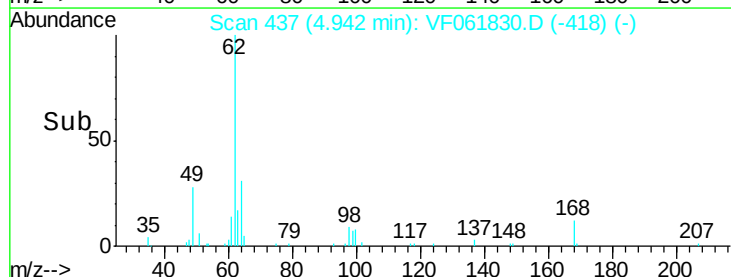
62 100

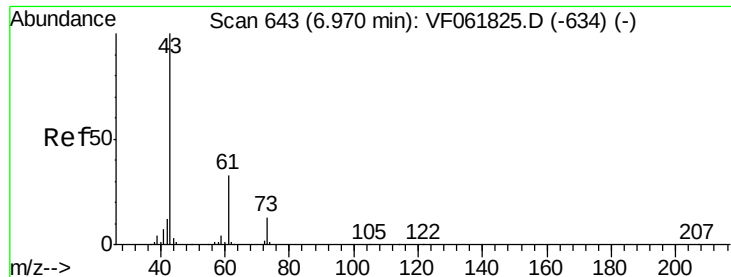
98 9.3 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 18.433 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

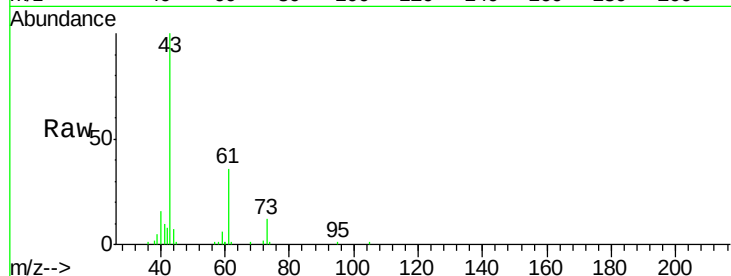
Tot Ion: 43 Resp: 47050

Ion Ratio Lower Upper

43 100

61 35.6 25.8 38.6

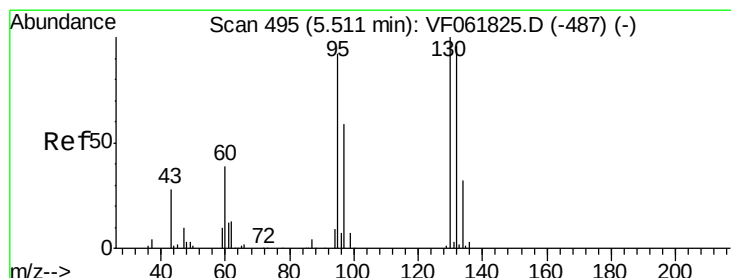
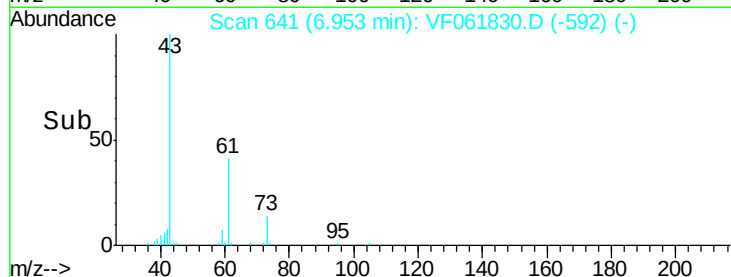
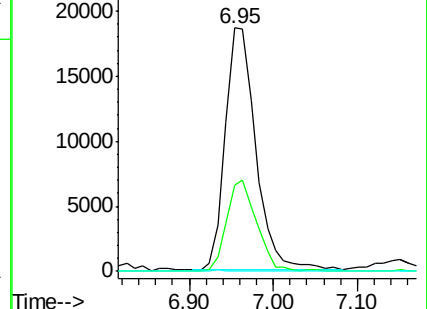
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 19.538 ug/l

RT: 5.50 min Scan# 494

Delta R.T. -0.01 min

Lab File: VF061830.D

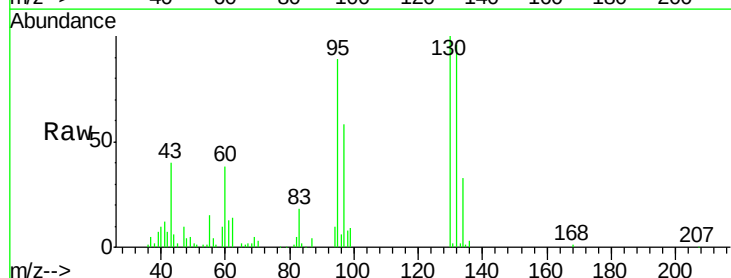
Acq: 4 Mar 2019 20:50

Tgt Ion:130 Resp: 76726

Ion Ratio Lower Upper

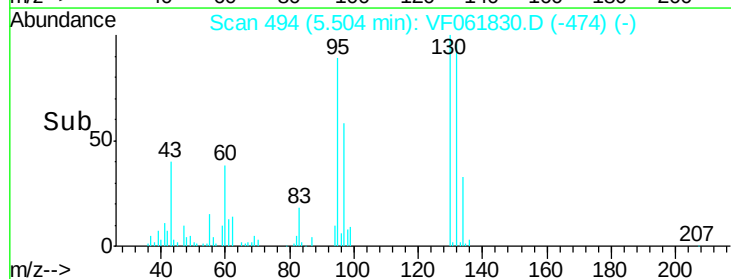
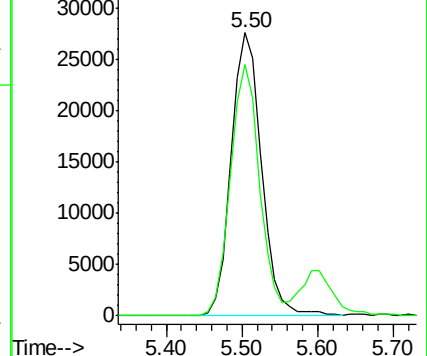
130 100

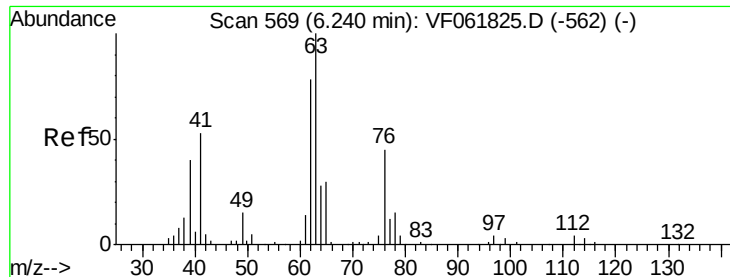
95 88.9 0.0 179.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 18.857 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

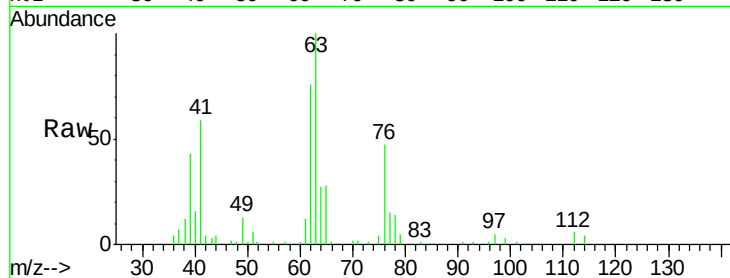
VF0304SBS01

Tot Ion: 63 Resp: 55351

Ion Ratio Lower Upper

63 100

65 28.4 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

25000

20000

15000

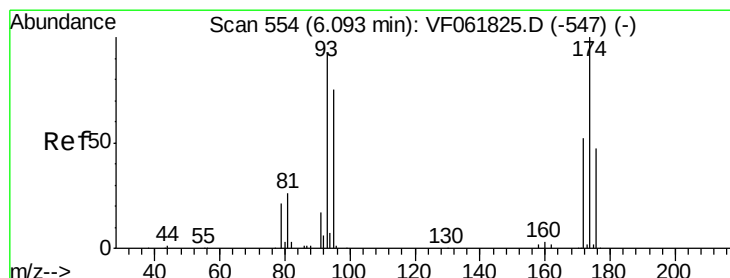
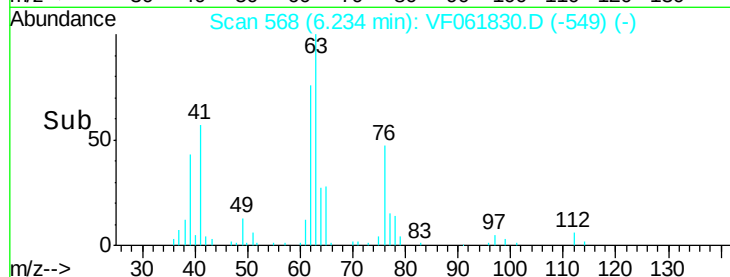
10000

5000

0

6.10 6.20 6.30 6.40

Time-->



#46

Dibromomethane

Concen: 19.419 ug/l

RT: 6.09 min Scan# 553

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

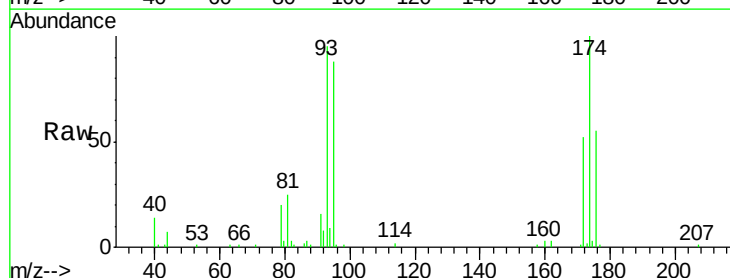
Tgt Ion: 93 Resp: 35096

Ion Ratio Lower Upper

93 100

95 93.5 69.0 103.6

174 108.8 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

15000

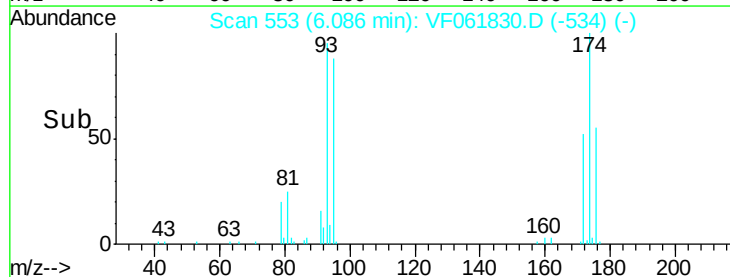
10000

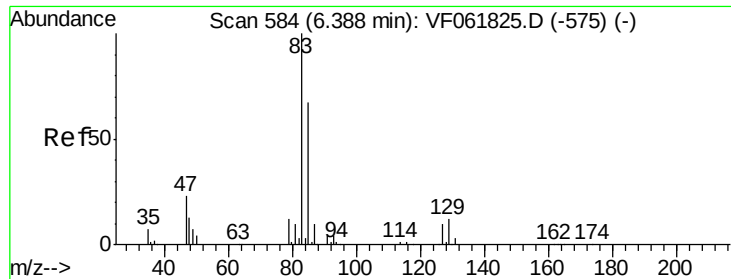
5000

0

6.00 6.10 6.20

Time-->





#47

Bromodichloromethane

Concen: 20.091 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

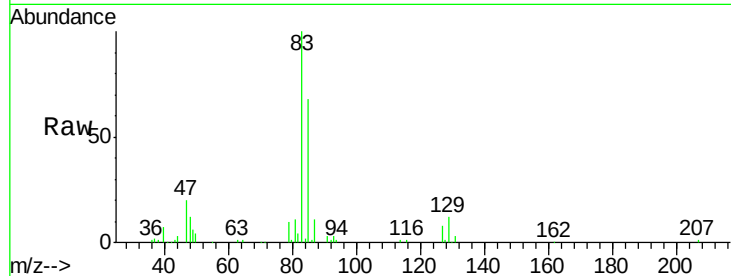
Tot Ion: 83 Resp: 79516

Ion Ratio Lower Upper

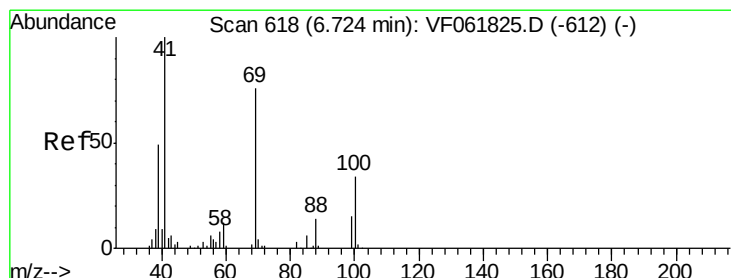
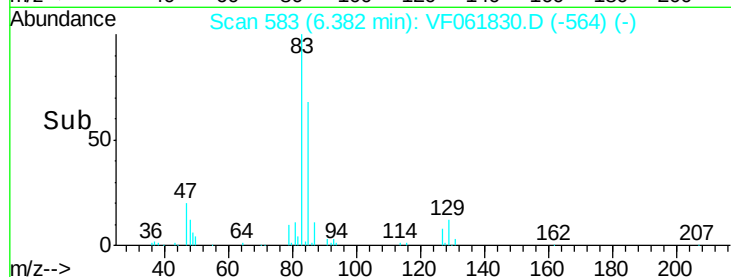
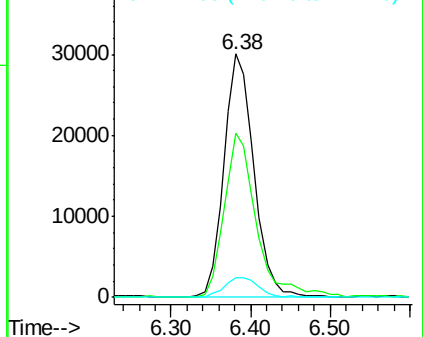
83 100

85 67.6 53.4 80.2

127 8.1 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: 20.973 ug/l

RT: 6.72 min Scan# 617

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

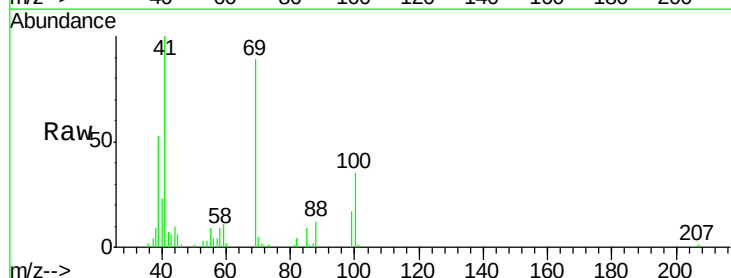
Tgt Ion: 41 Resp: 32216

Ion Ratio Lower Upper

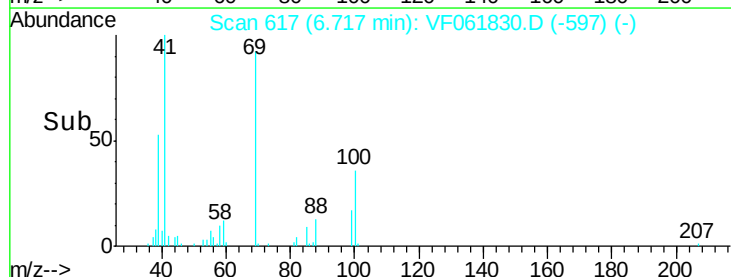
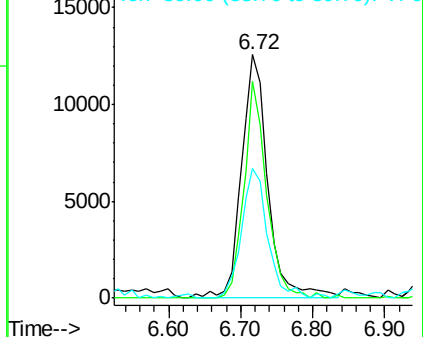
41 100

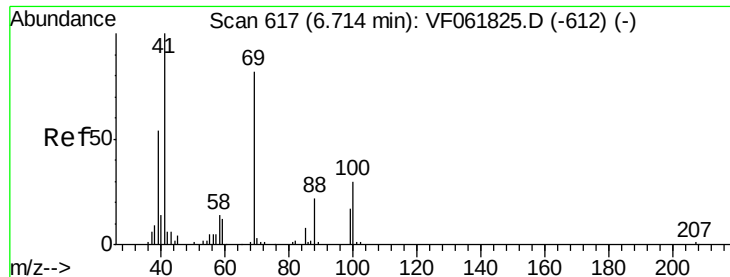
69 89.2 60.4 90.6

39 53.2 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

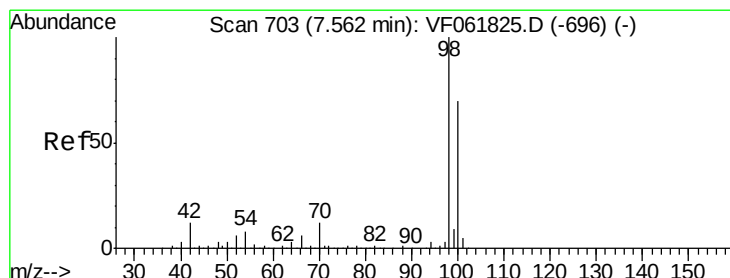
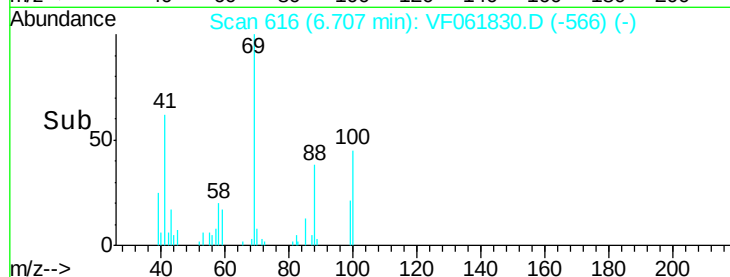
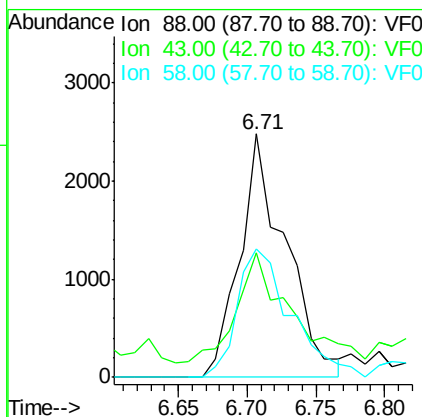
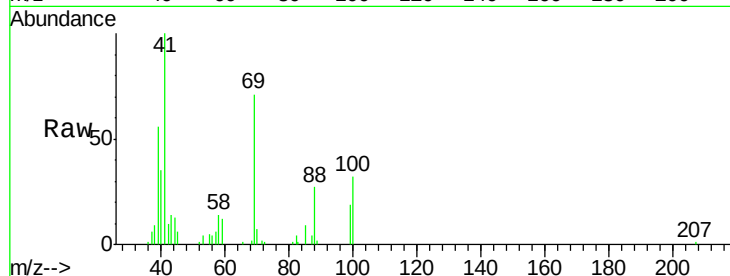




#49
1,4-Dioxane
Concen: 398.761 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

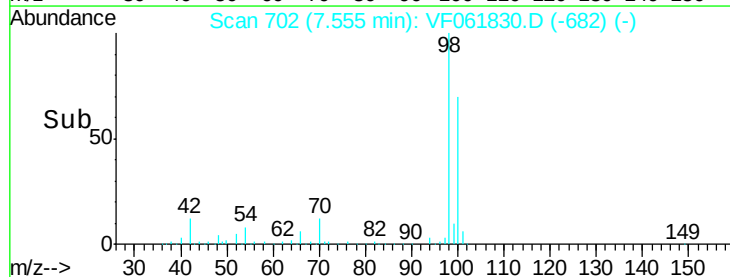
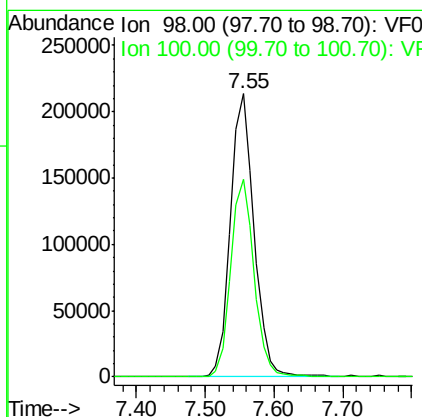
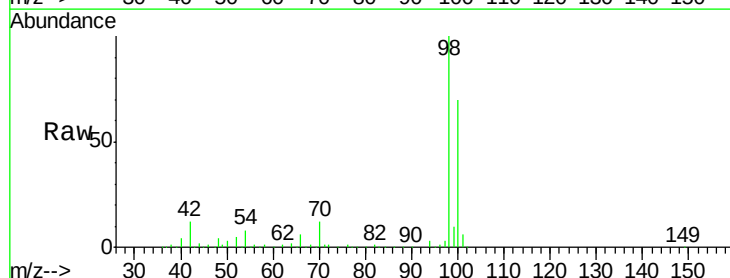
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

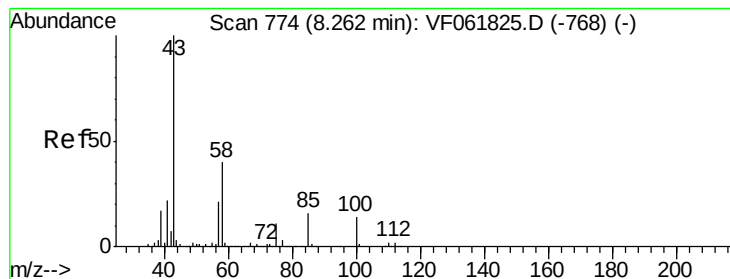
Tot Ion: 88 Resp: 5758
Ion Ratio Lower Upper
88 100
43 51.1 32.3 48.5#
58 52.8 59.4 89.2#



#50
Toluene-d8
Concen: 50.767 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

Tgt Ion: 98 Resp: 507916
Ion Ratio Lower Upper
98 100
100 69.8 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 99.049 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

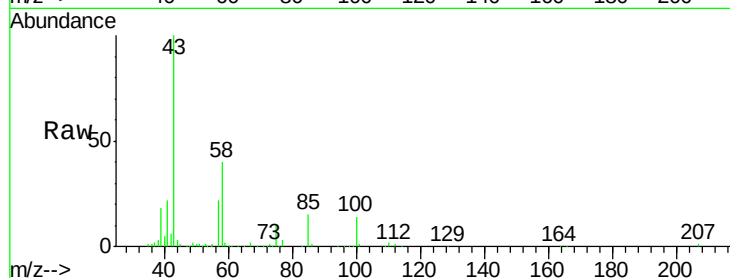
VF0304SBS01

Tot Ion: 43 Resp: 180649

Ion Ratio Lower Upper

43 100

58 40.5 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

80000

60000

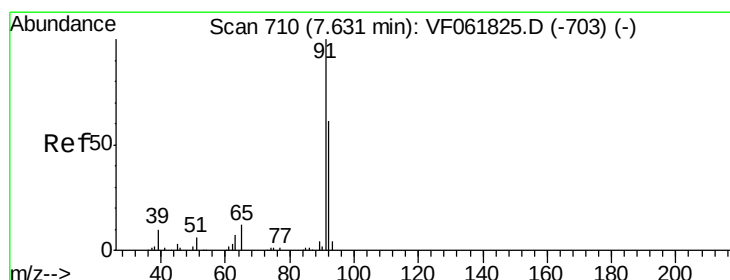
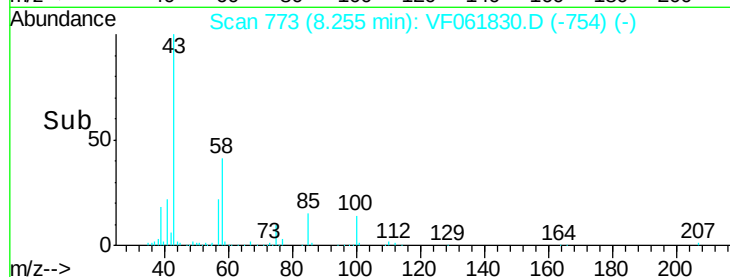
40000

20000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 19.687 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061830.D

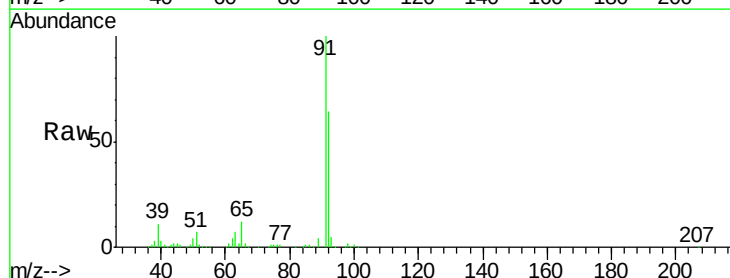
Acq: 4 Mar 2019 20:50

Tgt Ion: 92 Resp: 144993

Ion Ratio Lower Upper

92 100

91 156.9 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

100000

80000

60000

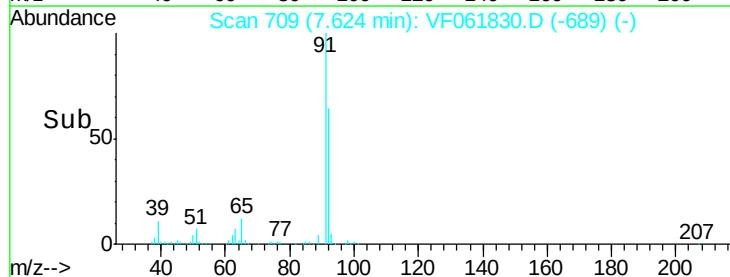
40000

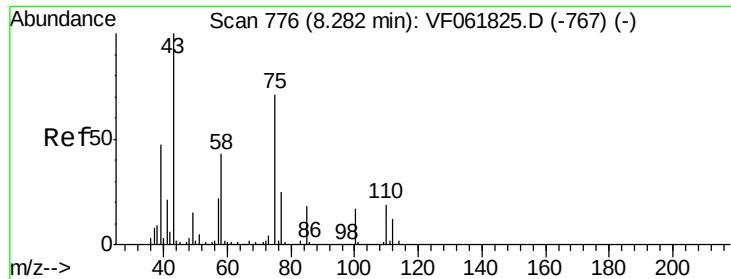
20000

0

7.50 7.60 7.70 7.80

Time-->

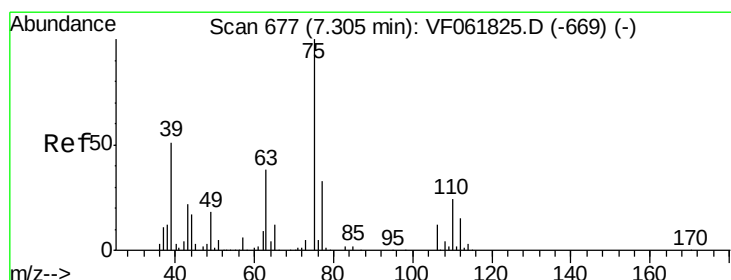
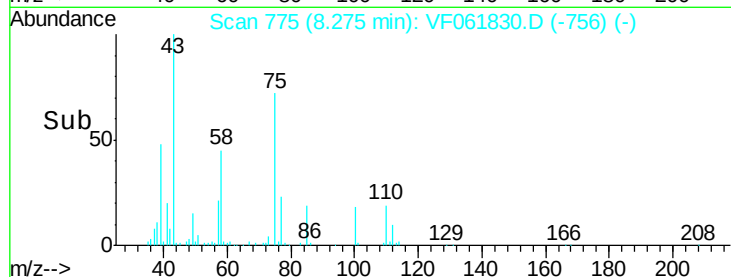
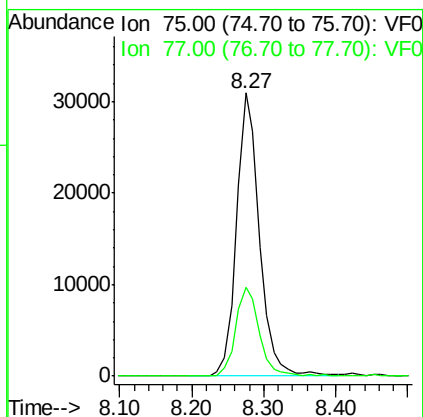
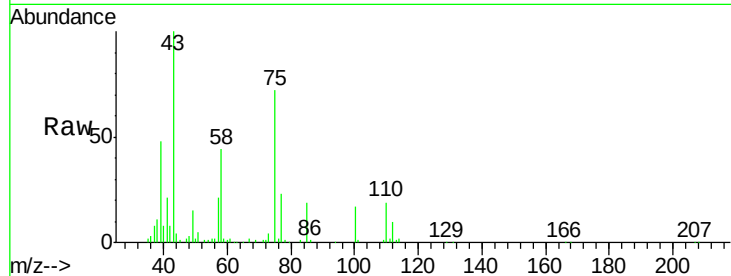




#53
 t-1,3-Dichloropropene
 Concen: 20.881 ug/l
 RT: 8.27 min Scan# 775
 Delta R.T. -0.02 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

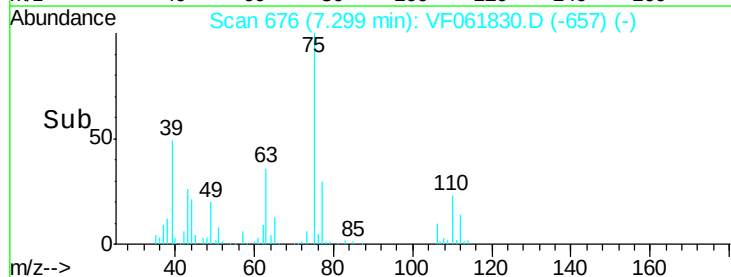
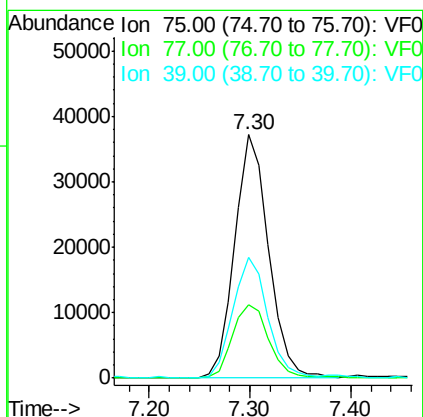
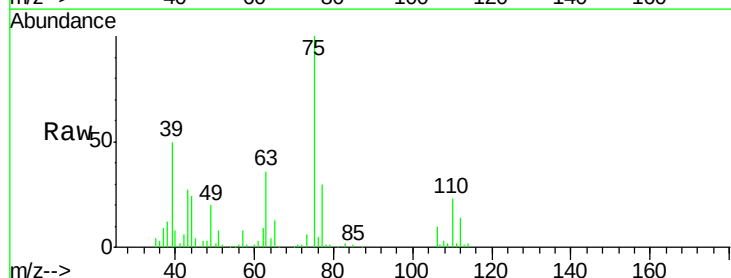
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

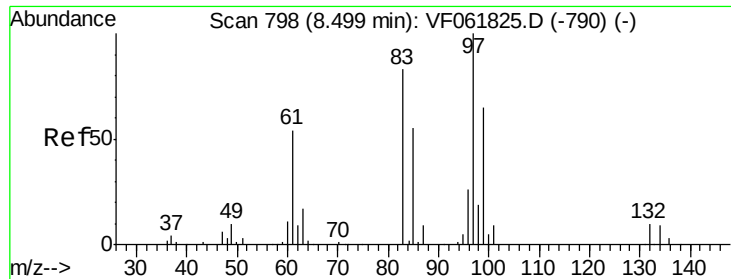
Tot Ion: 75 Resp: 68779
 Ion Ratio Lower Upper
 75 100
 77 31.2 26.2 39.2



#54
 cis-1,3-Dichloropropene
 Concen: 19.871 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. -0.02 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion: 75 Resp: 87182
 Ion Ratio Lower Upper
 75 100
 77 29.9 26.4 39.6
 39 49.5 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 19.734 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 97 Resp: 42701

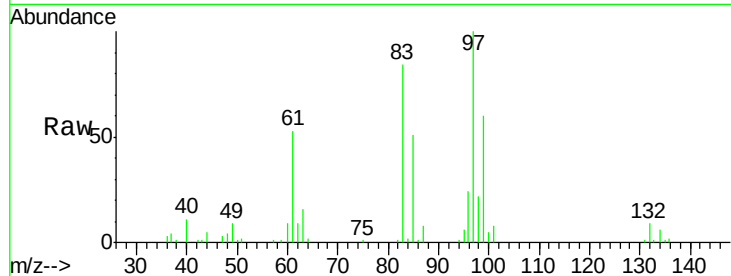
Ion Ratio Lower Upper

97 100

83 84.5 69.2 103.8

85 51.3 43.0 64.4

99 59.6 47.2 70.8

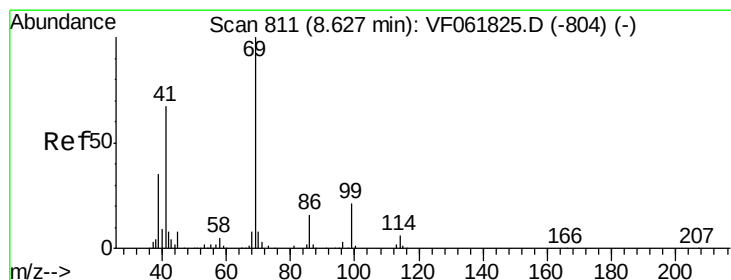
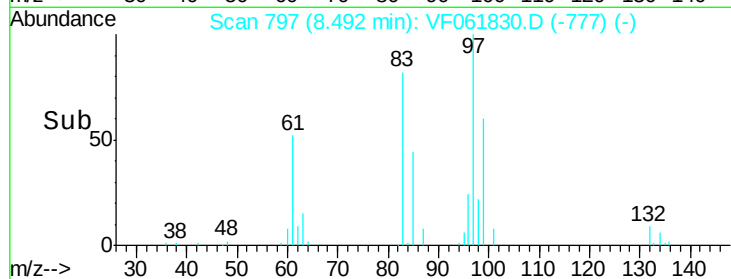
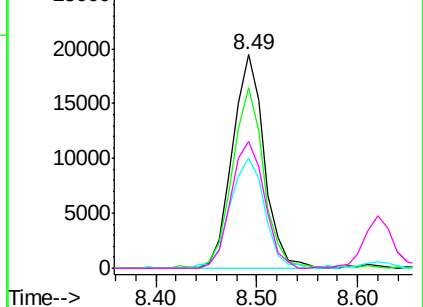


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 18.316 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

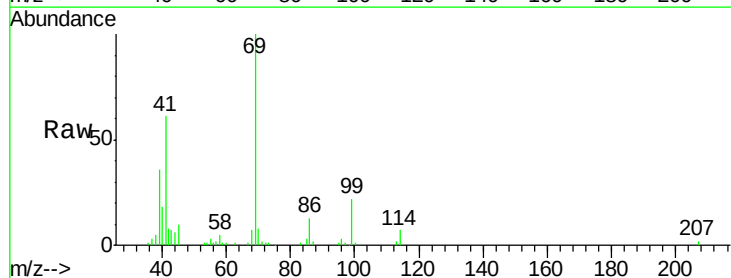
Tgt Ion: 69 Resp: 44125

Ion Ratio Lower Upper

69 100

41 61.4 52.9 79.3

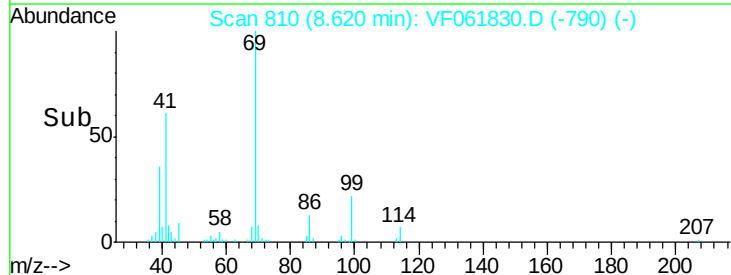
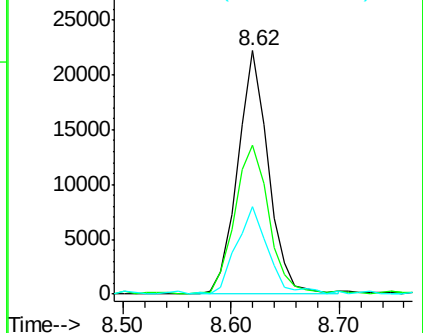
39 35.8 24.5 36.7

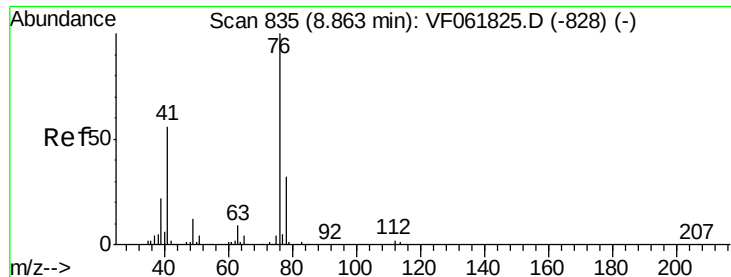


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

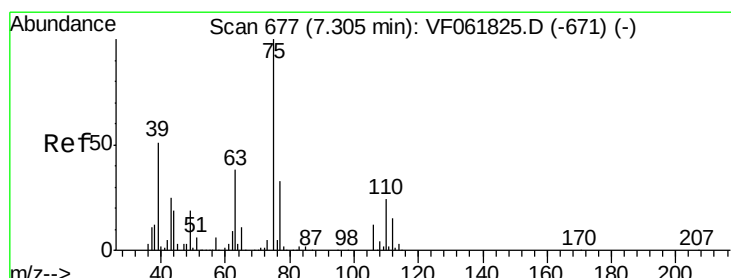
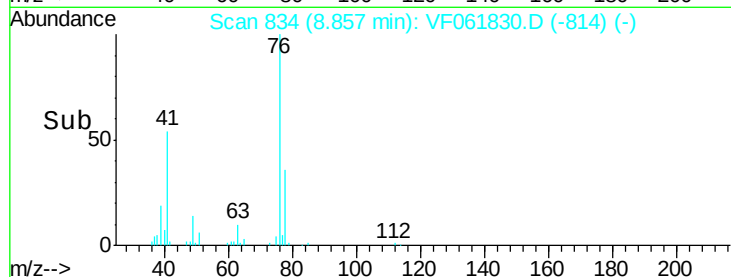
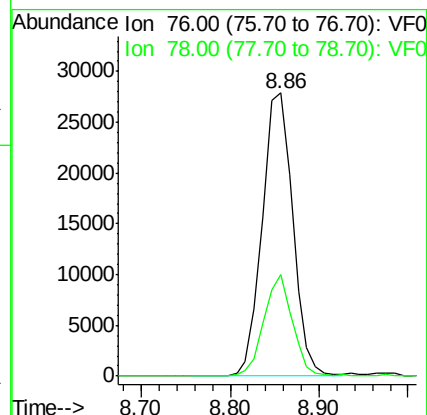
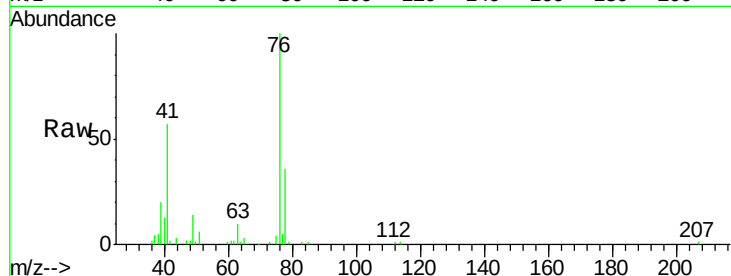




#57
 1,3-Dichloropropane
 Concen: 18.337 ug/l
 RT: 8.86 min Scan# 834
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

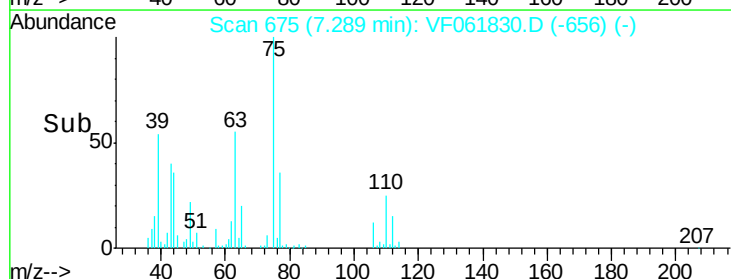
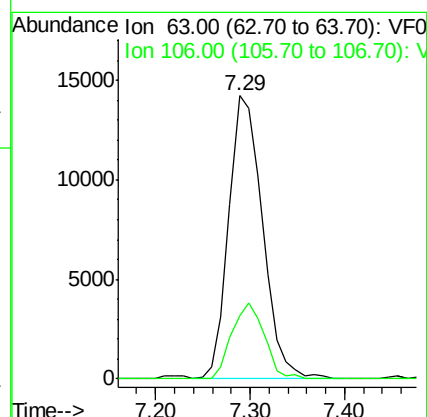
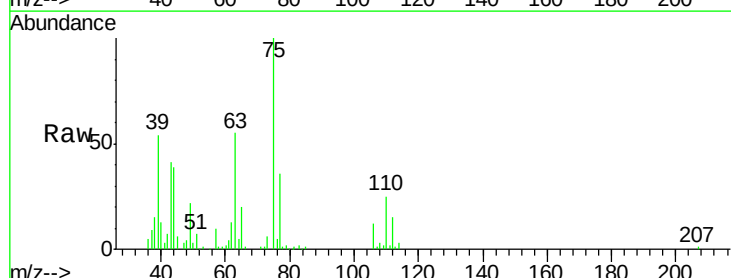
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

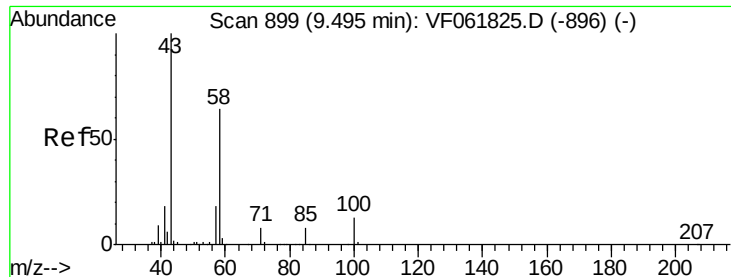
Tot Ion: 76 Resp: 66228
 Ion Ratio Lower Upper
 76 100
 78 36.1 27.8 41.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 84.823 ug/l
 RT: 7.29 min Scan# 675
 Delta R.T. -0.02 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion: 63 Resp: 35258
 Ion Ratio Lower Upper
 63 100
 106 22.2 24.6 36.8#

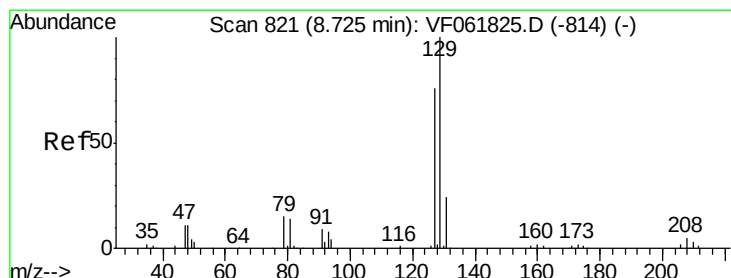
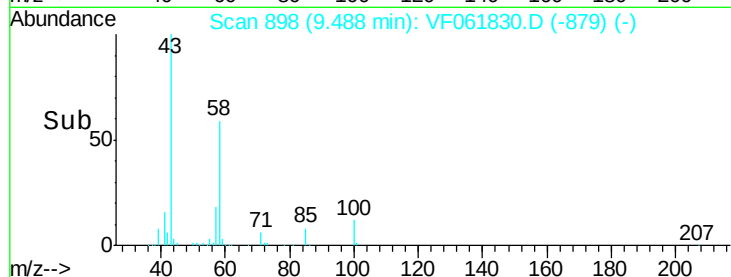
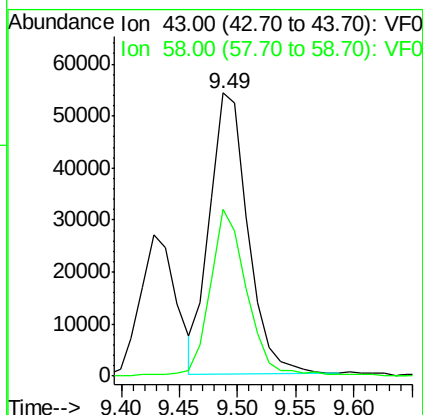
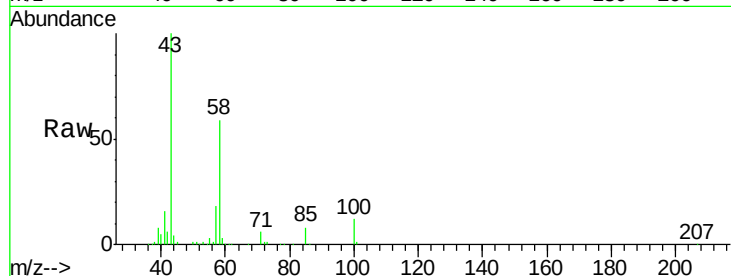




#59
2-Hexanone
Concen: 96.000 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.02 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

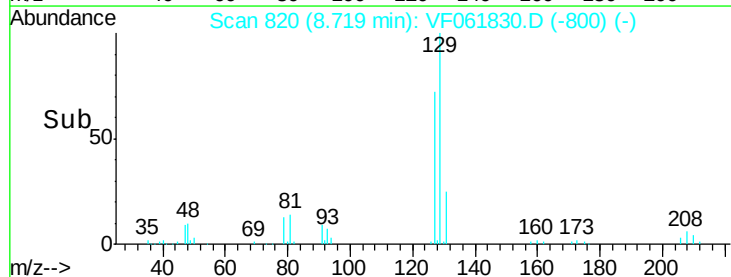
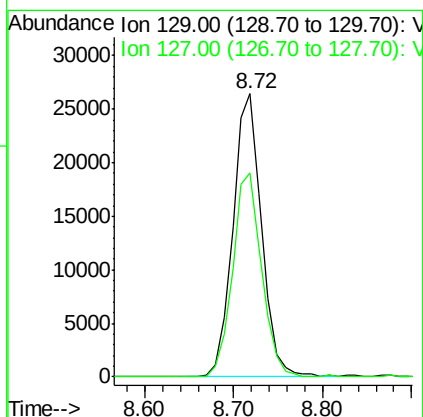
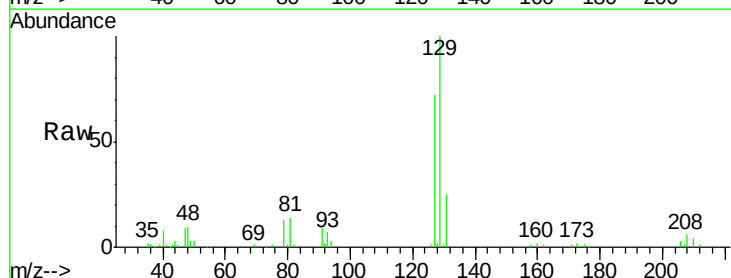
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

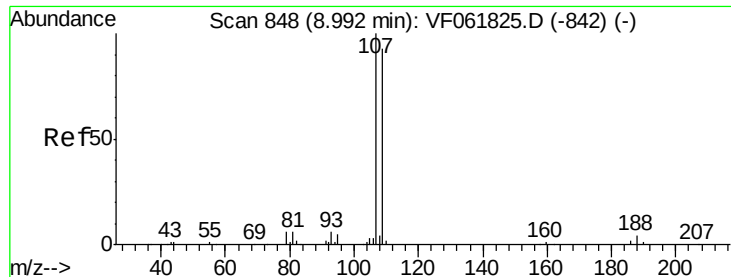
Tot Ion: 43 Resp: 122732
Ion Ratio Lower Upper
43 100
58 58.9 28.5 85.5



#60
Dibromochloromethane
Concen: 19.633 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

Tgt Ion: 129 Resp: 59131
Ion Ratio Lower Upper
129 100
127 72.0 37.8 113.4





#61

1,2-Dibromoethane

Concen: 19.472 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

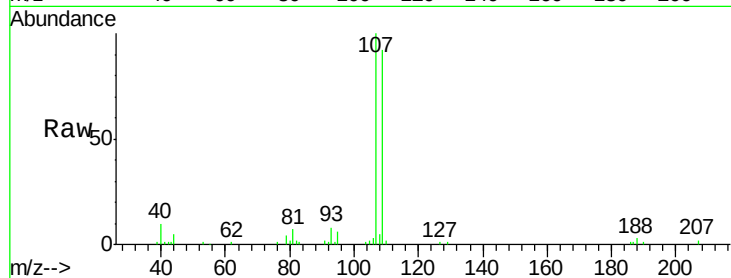
VF0304SBS01

Tot Ion:107 Resp: 45700

Ion Ratio Lower Upper

107 100

109 92.3 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

25000

20000

15000

10000

5000

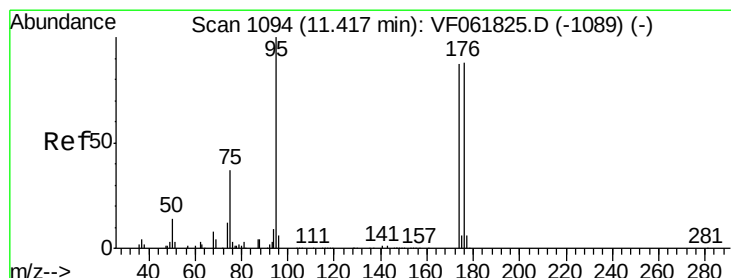
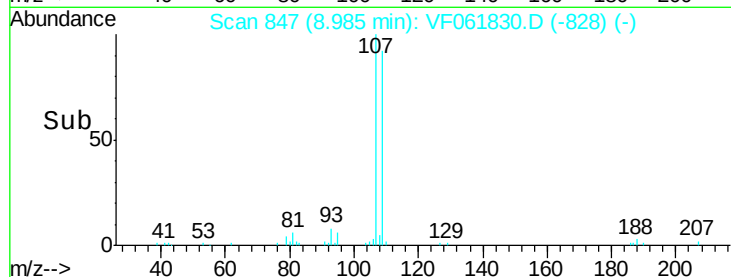
0

Time-->

8.90

9.00

9.10



#62

4-Bromofluorobenzene

Concen: 50.727 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

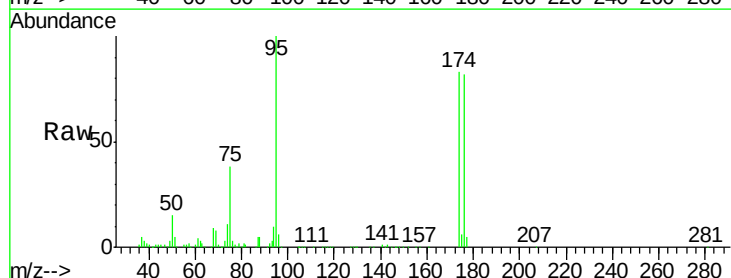
Tgt Ion: 95 Resp: 205350

Ion Ratio Lower Upper

95 100

174 83.3 0.0 165.8

176 82.3 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

150000

100000

50000

0

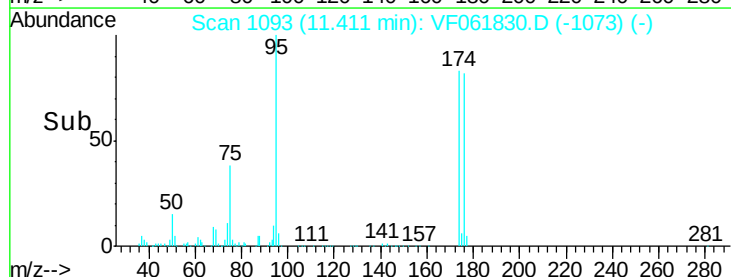
Time-->

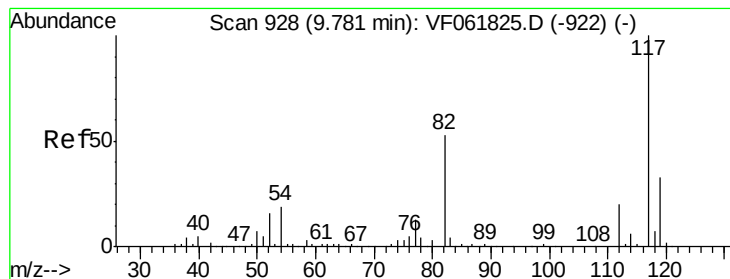
11.30

11.40

11.50

11.60





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

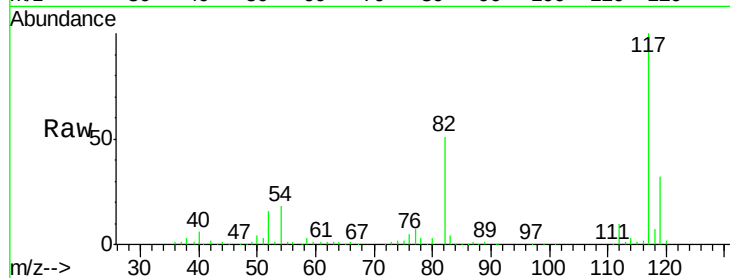
Tot Ion:117 Resp: 405774

Ion Ratio Lower Upper

117 100

82 51.2 39.3 58.9

119 32.3 26.6 40.0

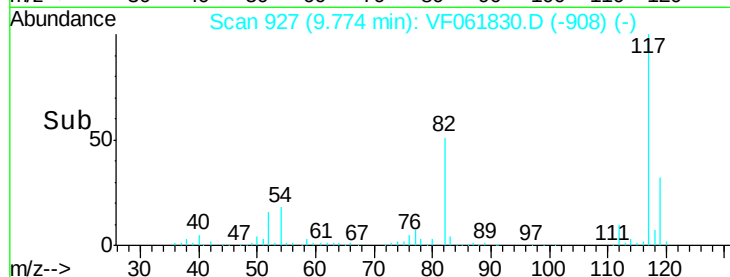


Abundance Ion 117.00 (116.70 to 117.70): V

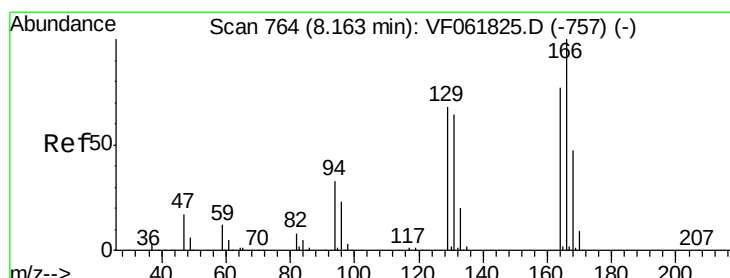
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

Time-->



Time-->



#64

Tetrachloroethene

Concen: 19.582 ug/l

RT: 8.16 min Scan# 763

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Tgt Ion:164 Resp: 64950

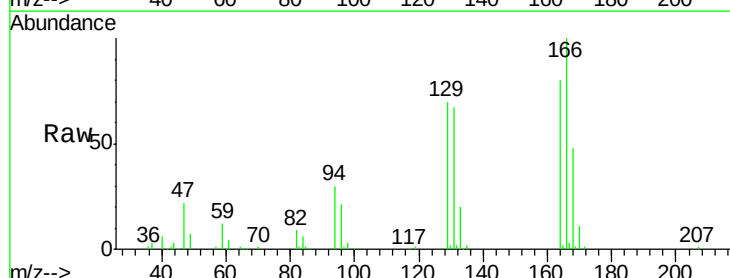
Ion Ratio Lower Upper

164 100

166 125.4 103.9 155.9

129 87.6 71.3 106.9

131 84.5 67.1 100.7



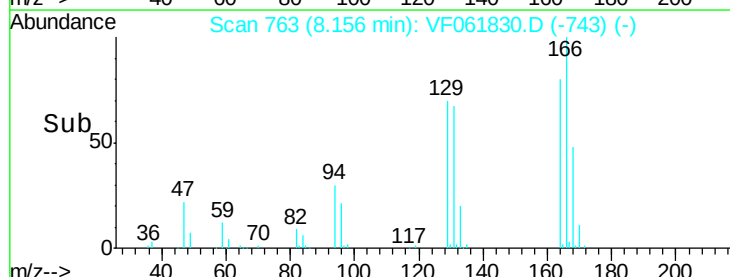
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

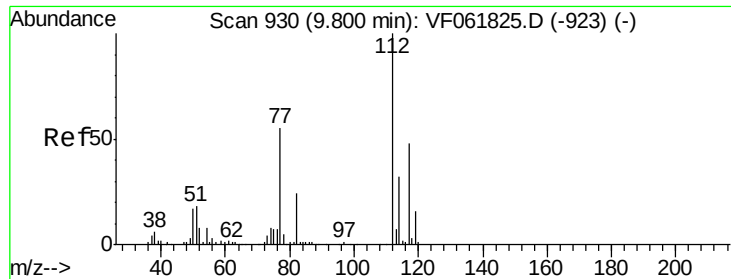
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

Time-->



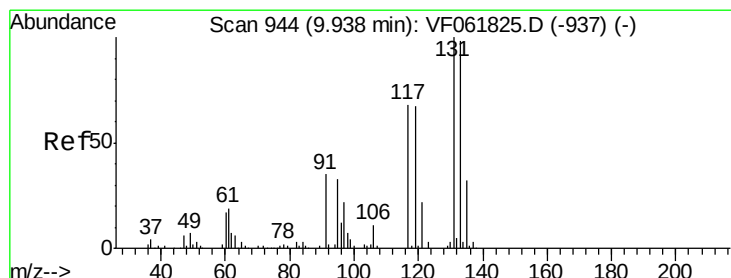
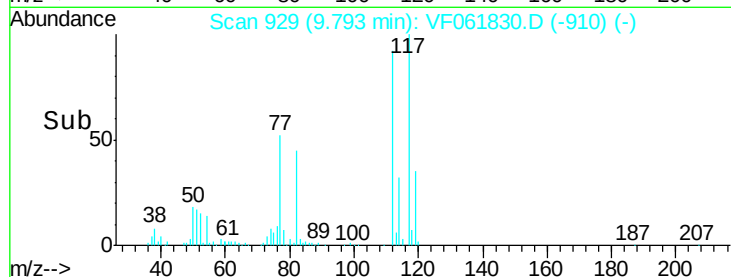
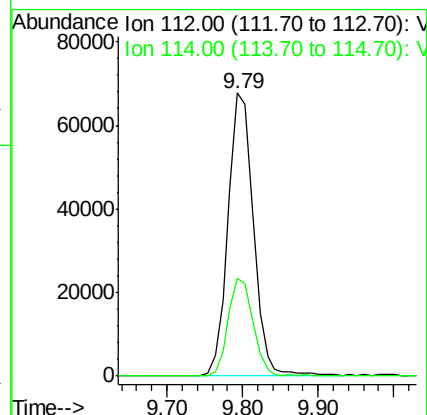
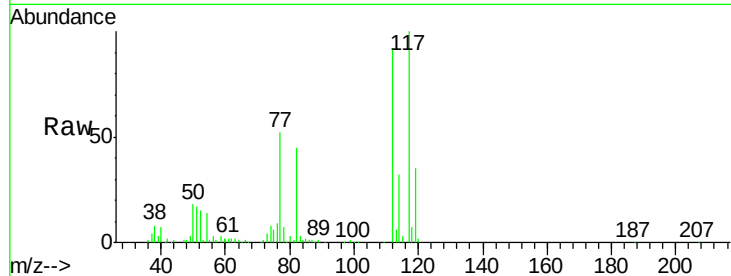
Time-->



#65
Chlorobenzene
Concen: 19.271 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

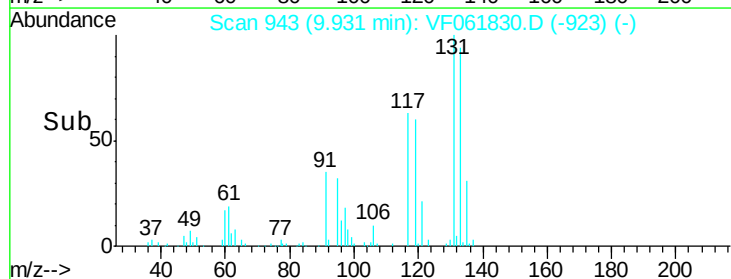
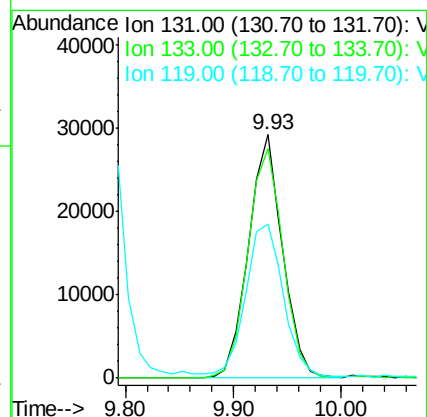
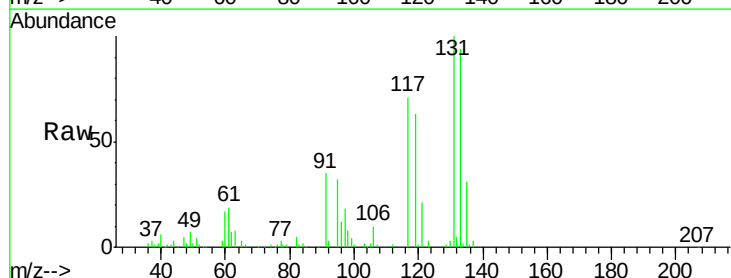
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

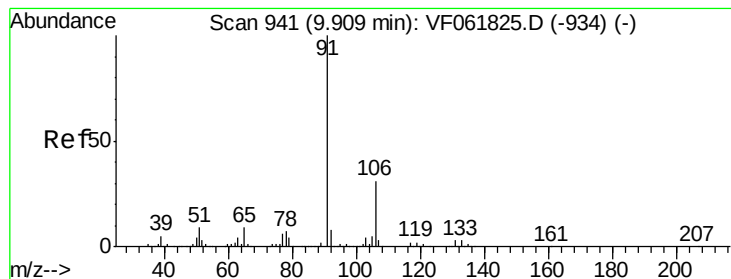
Tot Ion:112 Resp: 158676
Ion Ratio Lower Upper
112 100
114 34.5 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 19.816 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

Tgt Ion:131 Resp: 63936
Ion Ratio Lower Upper
131 100
133 94.3 48.9 146.6
119 63.3 34.8 104.3





#67

Ethyl Benzene

Concen: 19.904 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

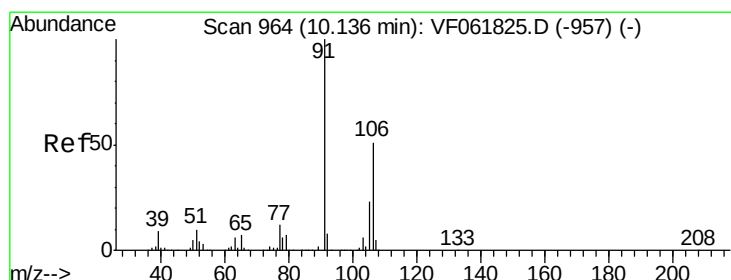
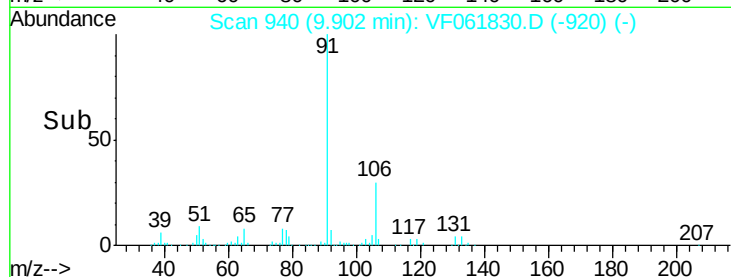
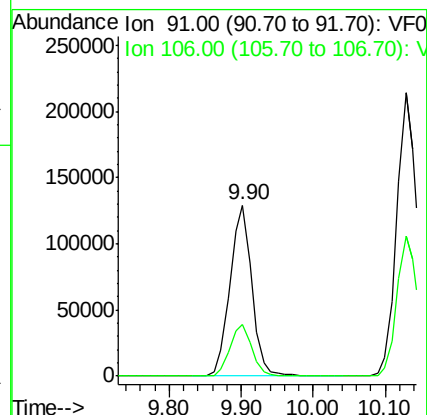
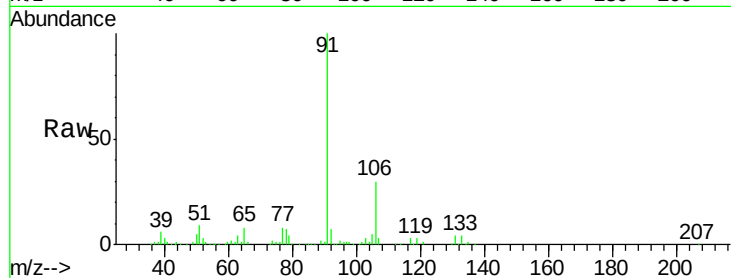
VF0304SBS01

Tot Ion: 91 Resp: 272543

Ion Ratio Lower Upper

91 100

106 30.1 24.1 36.1



#68

m/p-Xylenes

Concen: 41.507 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.02 min

Lab File: VF061830.D

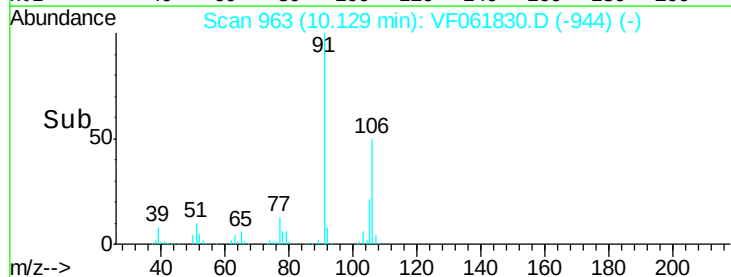
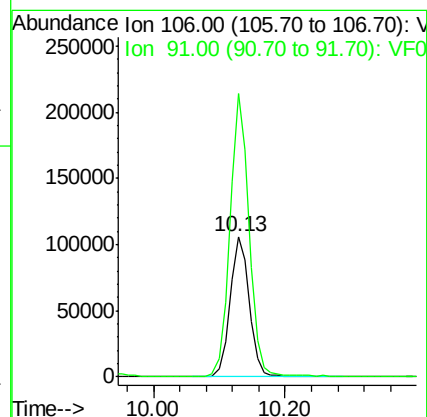
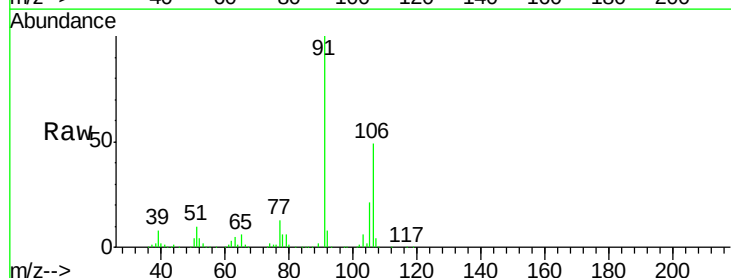
Acq: 4 Mar 2019 20:50

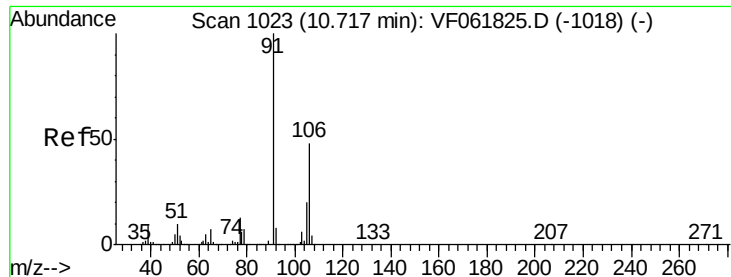
Tgt Ion: 106 Resp: 217521

Ion Ratio Lower Upper

106 100

91 202.1 153.0 229.6

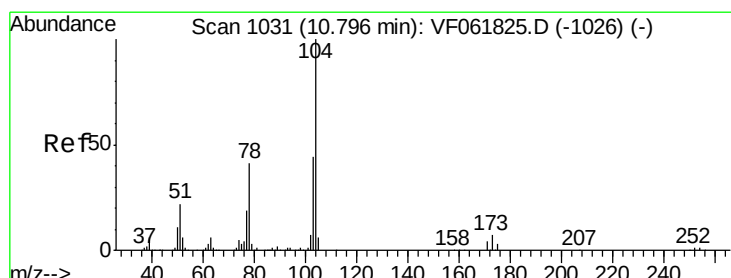
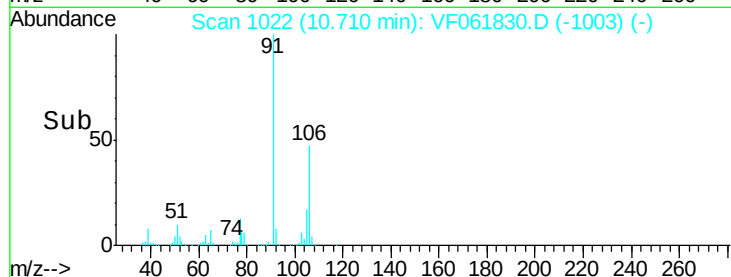
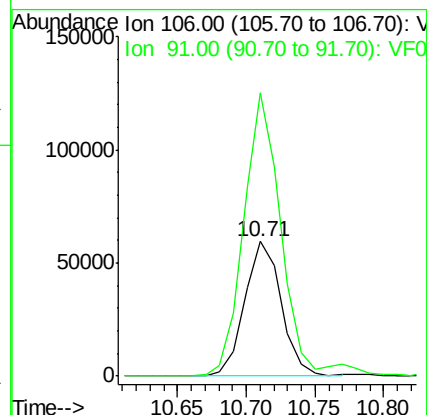
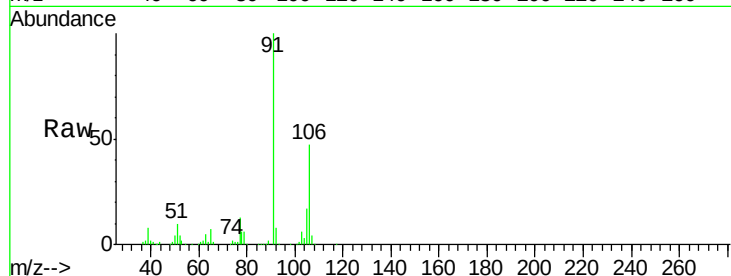




#69
o-Xylene
Concen: 19.733 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.02 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

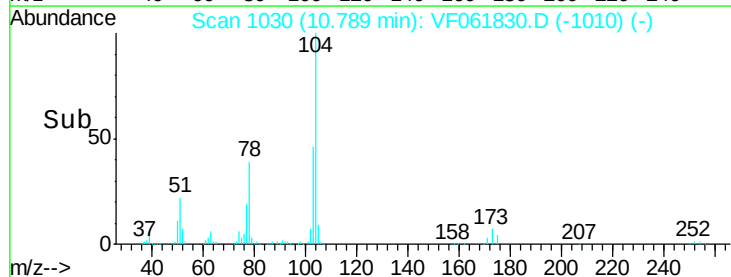
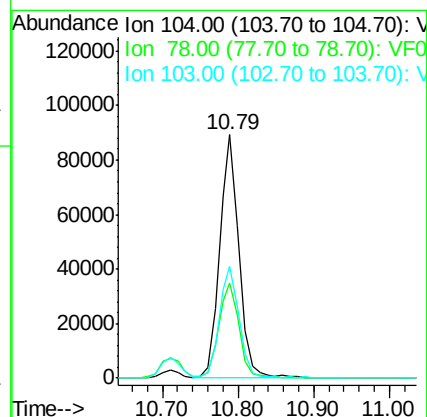
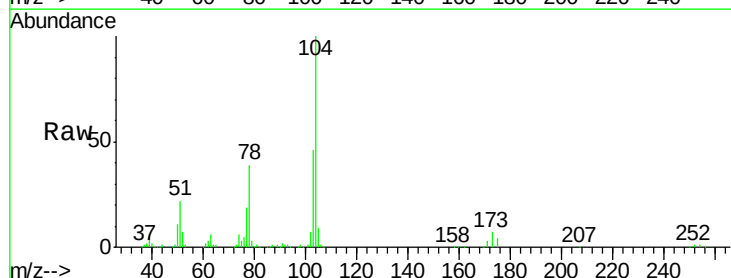
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

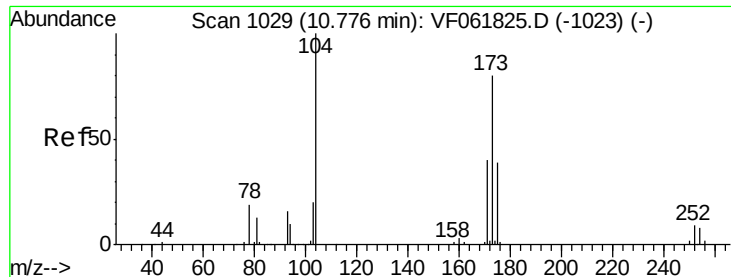
Tot Ion:106 Resp: 110345
Ion Ratio Lower Upper
106 100
91 210.6 100.1 300.1



#70
Styrene
Concen: 20.160 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

Tgt Ion:104 Resp: 159479
Ion Ratio Lower Upper
104 100
78 39.1 33.2 49.8
103 46.1 37.2 55.8





#71

Bromoform

Concen: 19.976 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

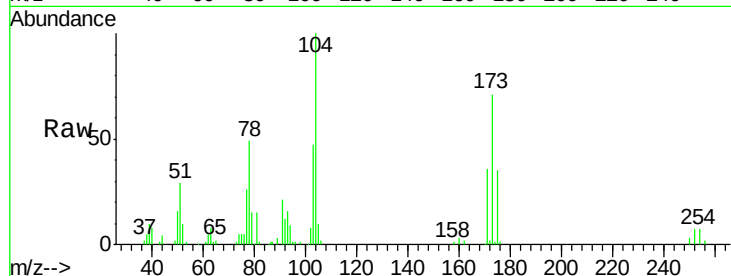
Tot Ion:173 Resp: 35000

Ion Ratio Lower Upper

173 100

175 48.6 24.0 72.0

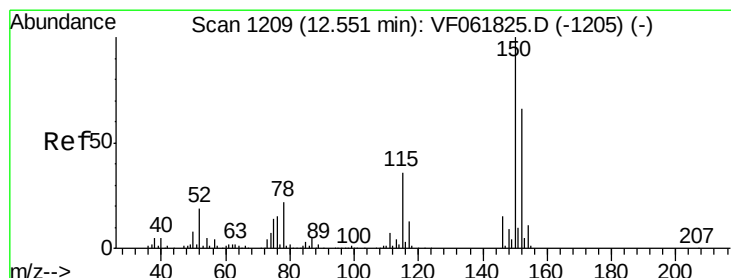
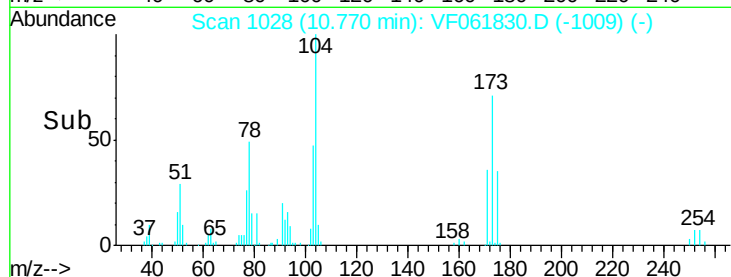
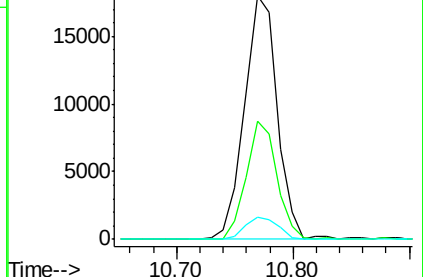
254 9.2 8.2 12.2



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: VF061830.D

Acq: 4 Mar 2019 20:50

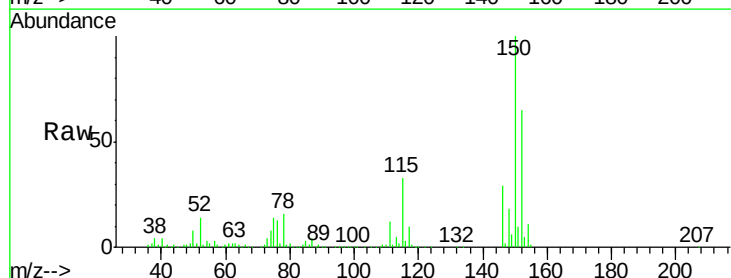
Tgt Ion:152 Resp: 217883

Ion Ratio Lower Upper

152 100

115 50.2 24.3 72.8

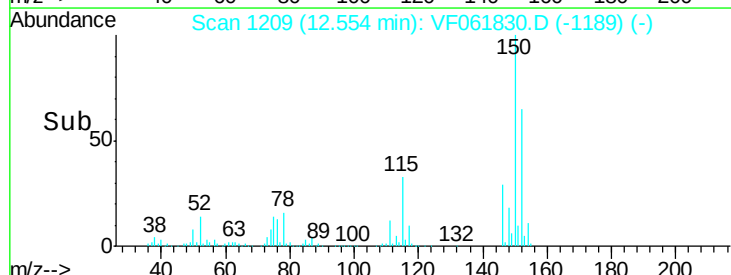
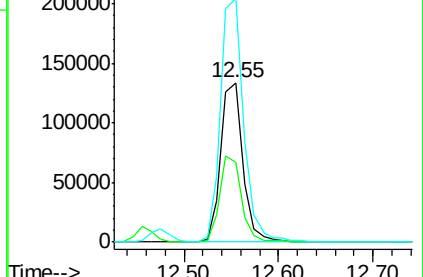
150 152.9 0.0 312.0

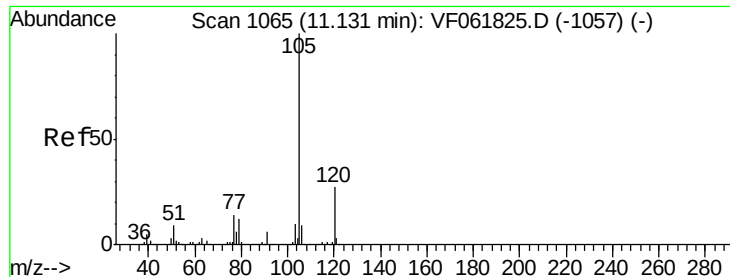


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 20.830 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

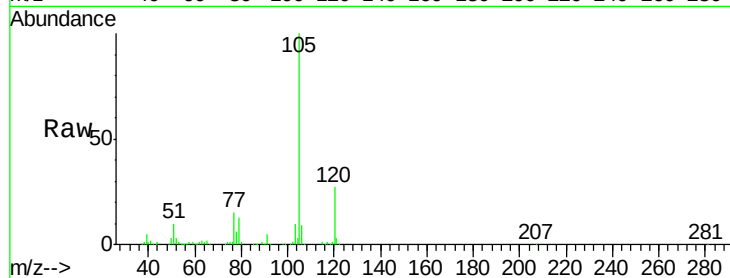
VF0304SBS01

Tot Ion:105 Resp: 323129

Ion Ratio Lower Upper

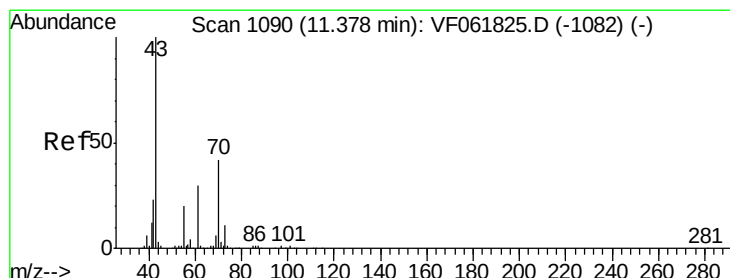
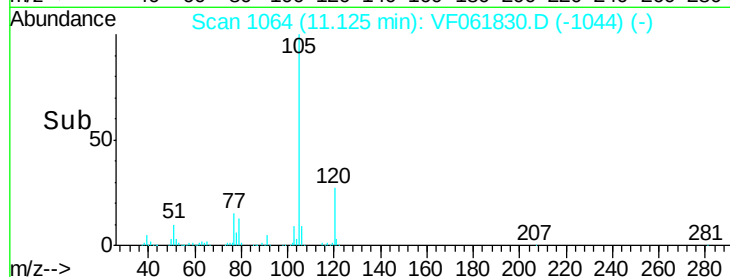
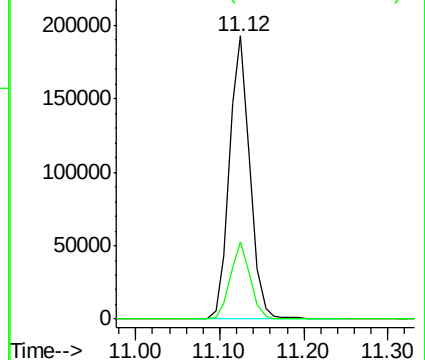
105 100

120 27.5 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.167 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Tgt Ion: 43 Resp: 78814

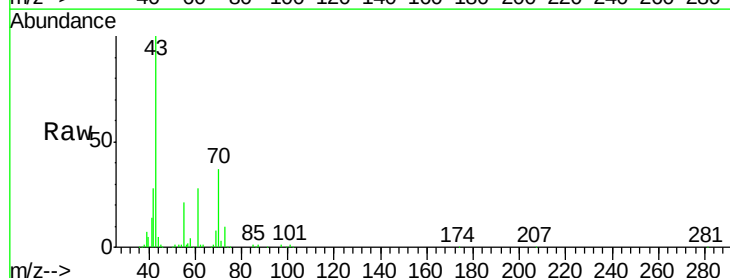
Ion Ratio Lower Upper

43 100

70 36.9 31.5 47.3

55 21.2 16.7 25.1

61 28.4 23.0 34.6

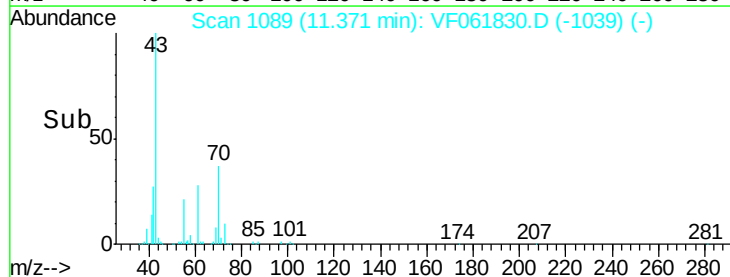
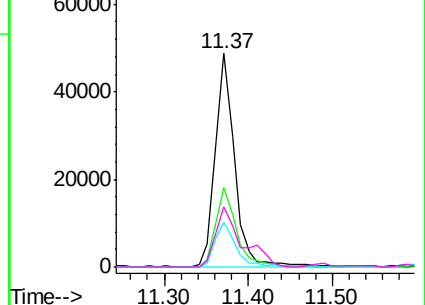


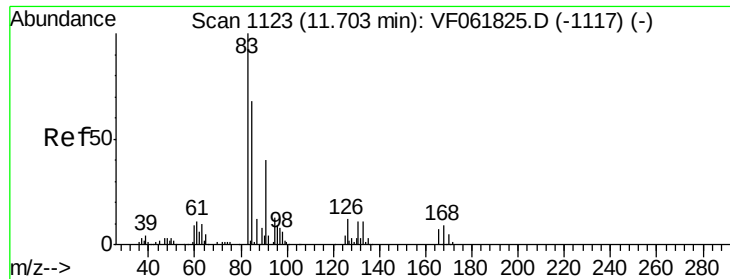
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.695 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

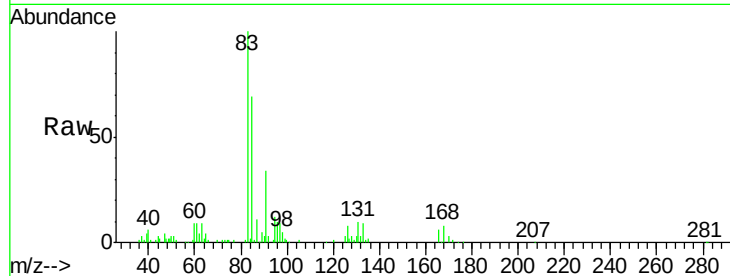
MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 83 Resp: 54735

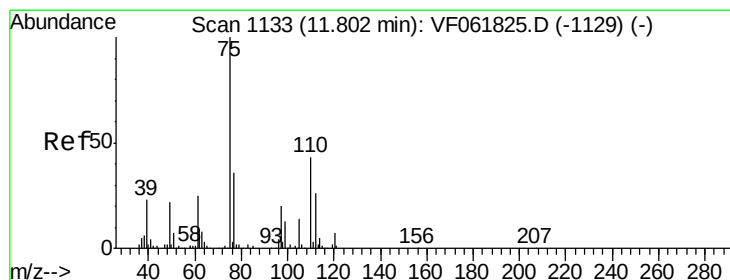
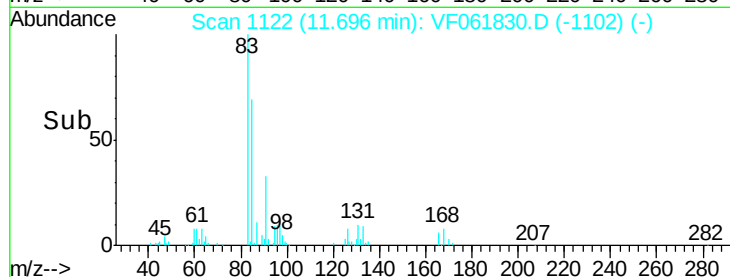
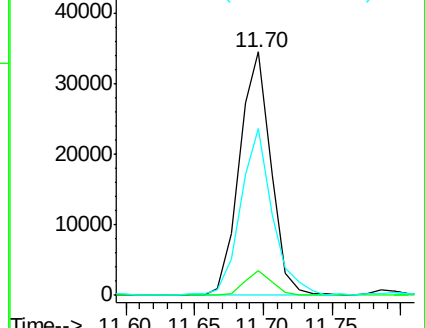
Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.4	13.2
85	68.5	31.5	94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 20.712 ug/l

RT: 11.80 min Scan# 1132

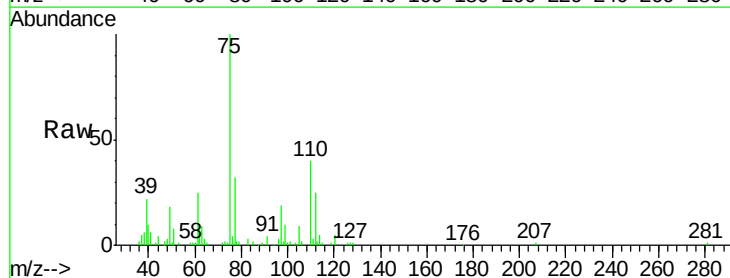
Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

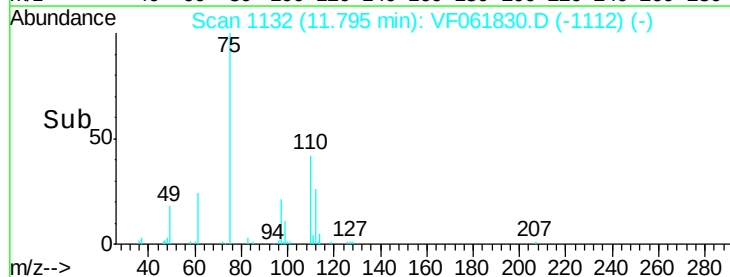
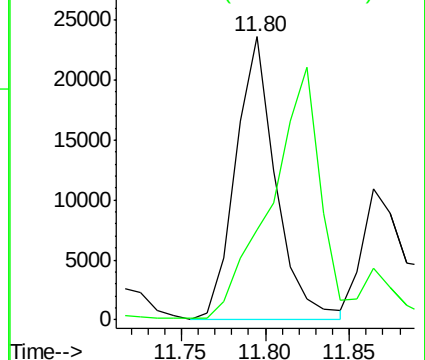
Tgt Ion: 75 Resp: 39135

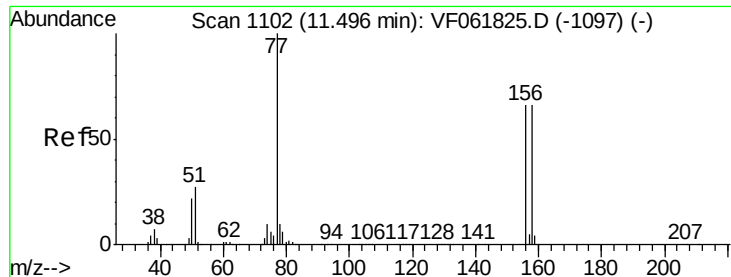
Ion	Ratio	Lower	Upper
75	100		
77	31.9	16.6	49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.332 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

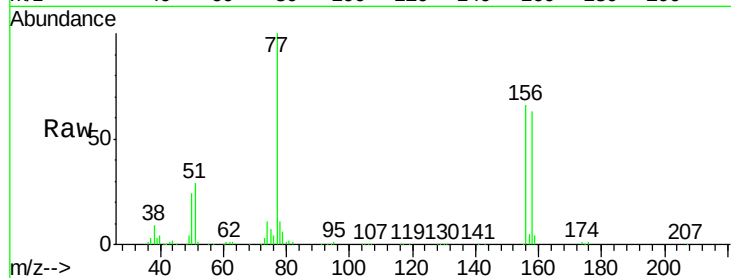
Tot Ion:156 Resp: 77920

Ion Ratio Lower Upper

156 100

77 152.1 64.3 192.7

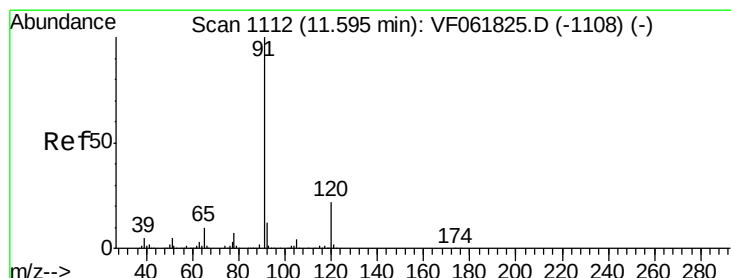
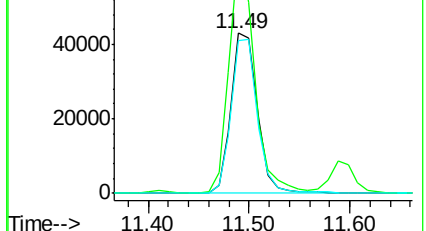
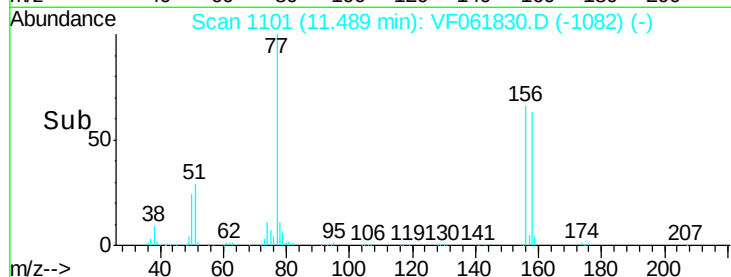
158 95.5 50.9 152.7



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: 20.341 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF061830.D

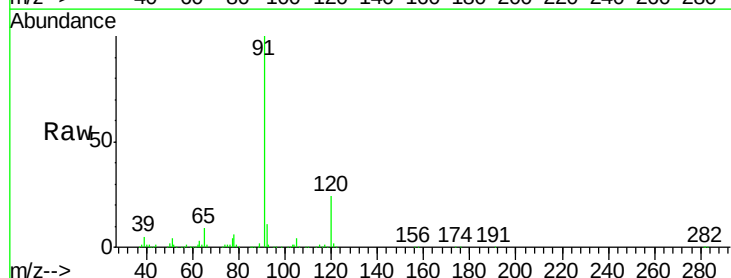
Acq: 4 Mar 2019 20:50

Tgt Ion: 91 Resp: 362095

Ion Ratio Lower Upper

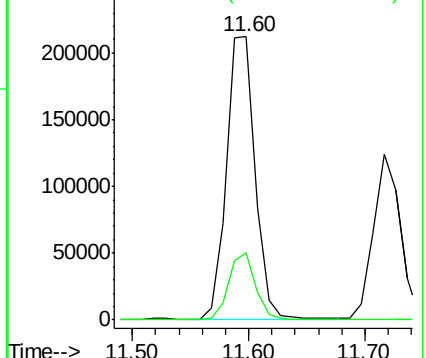
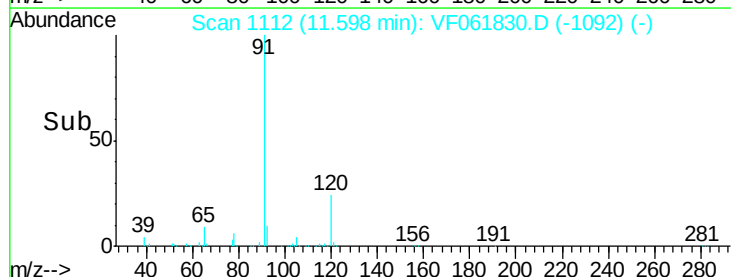
91 100

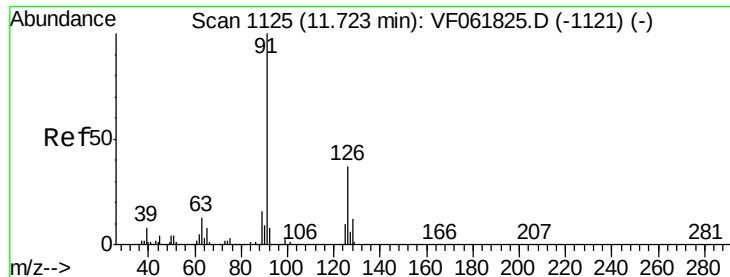
120 23.8 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

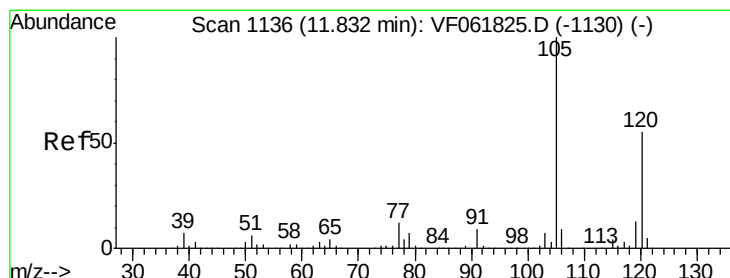
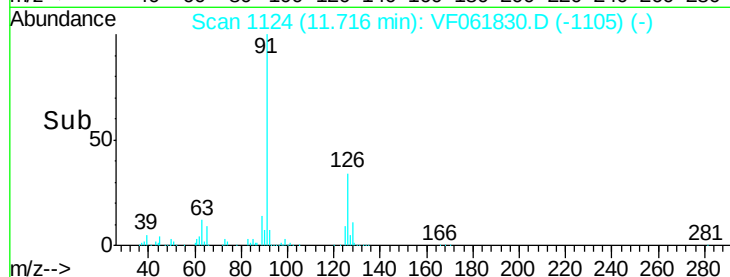
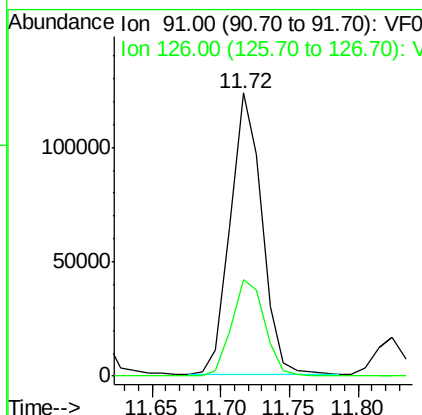
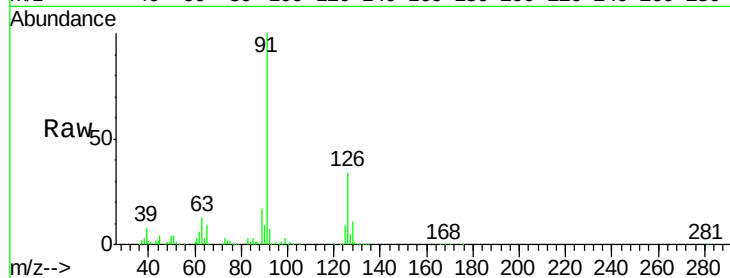




#79
 2-Chlorotoluene
 Concen: 19.713 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. -0.02 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

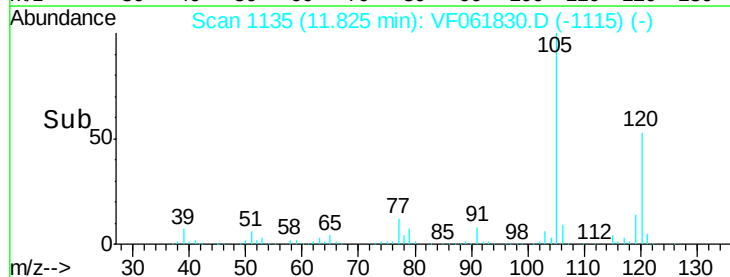
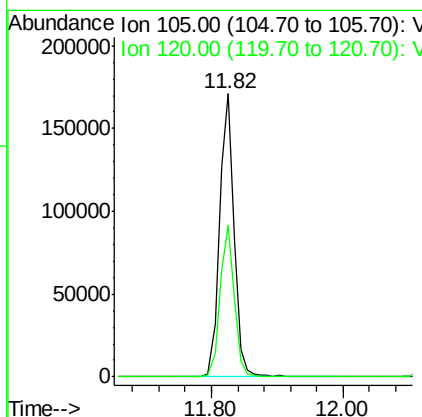
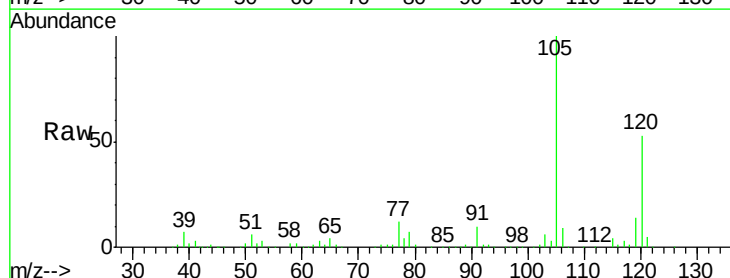
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

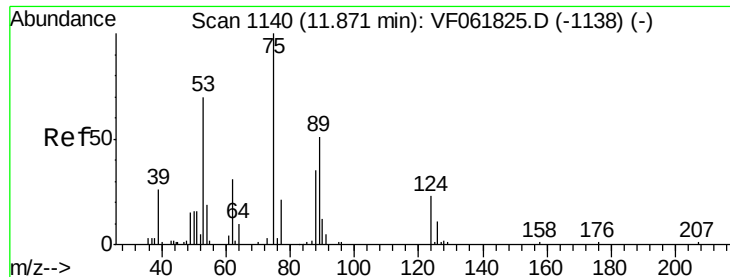
Tot Ion: 91 Resp: 196531
 Ion Ratio Lower Upper
 91 100
 126 33.9 19.8 59.4



#80
 1,3,5-Trimethylbenzene
 Concen: 21.096 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion: 105 Resp: 261554
 Ion Ratio Lower Upper
 105 100
 120 53.4 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 25.234 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

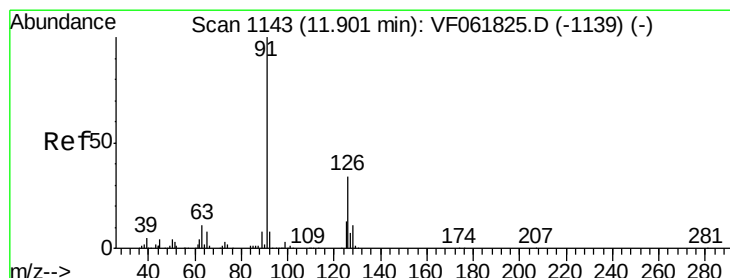
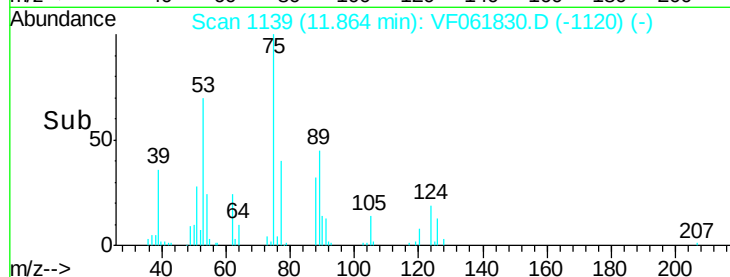
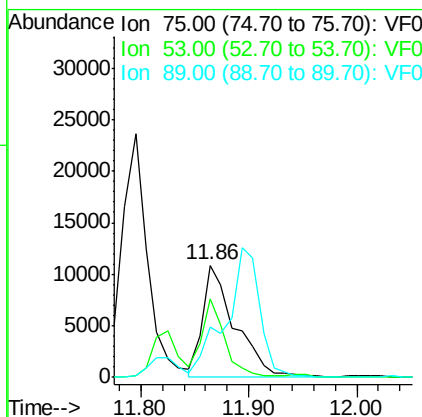
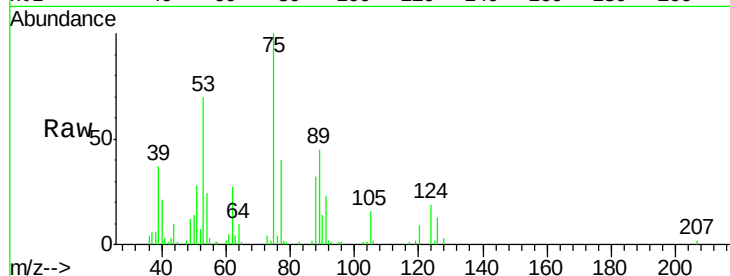
Tot Ion: 75 Resp: 22859

Ion Ratio Lower Upper

75 100

53 70.3 53.7 80.5

89 45.2 41.6 62.4



#82

4-Chlorotoluene

Concen: 20.375 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF061830.D

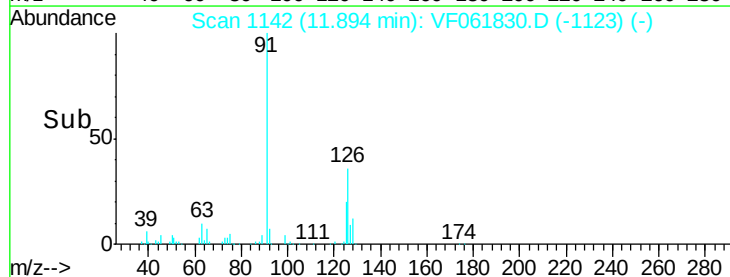
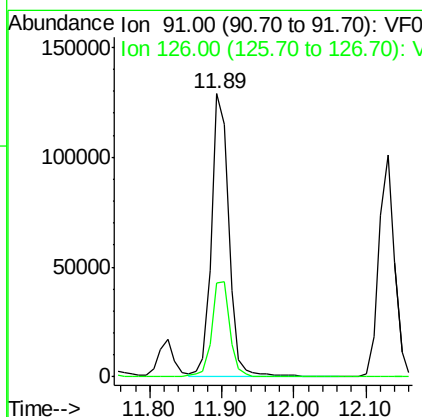
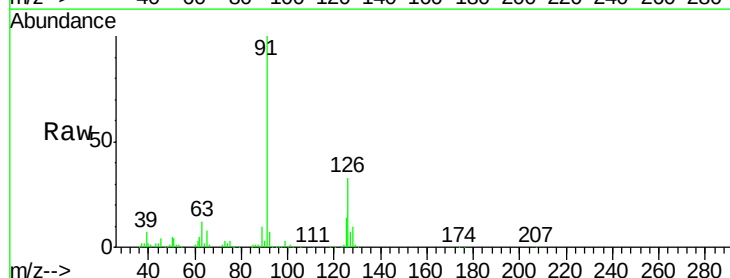
Acq: 4 Mar 2019 20:50

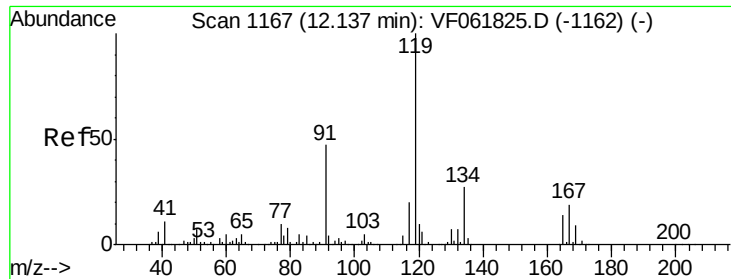
Tgt Ion: 91 Resp: 210844

Ion Ratio Lower Upper

91 100

126 33.2 19.1 57.1

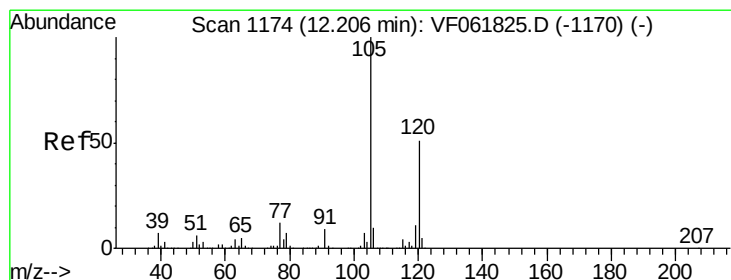
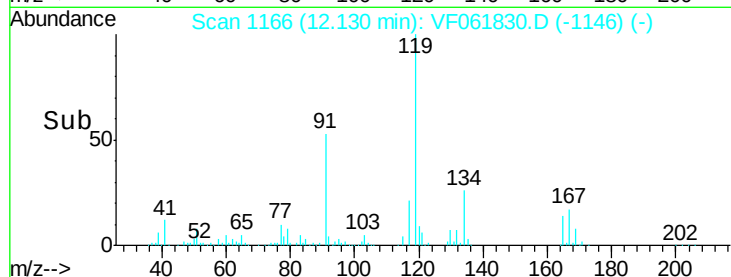
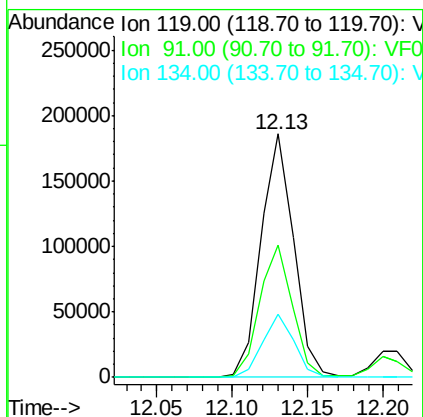
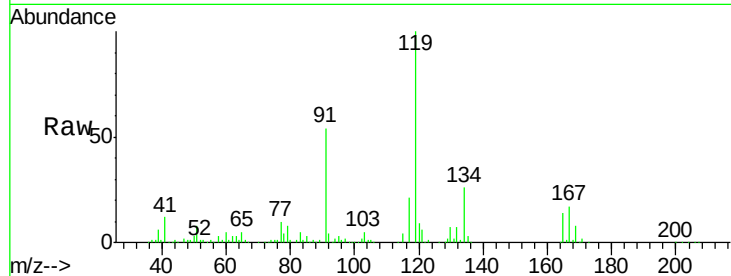




#83
 tert-Butylbenzene
 Concen: 20.608 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

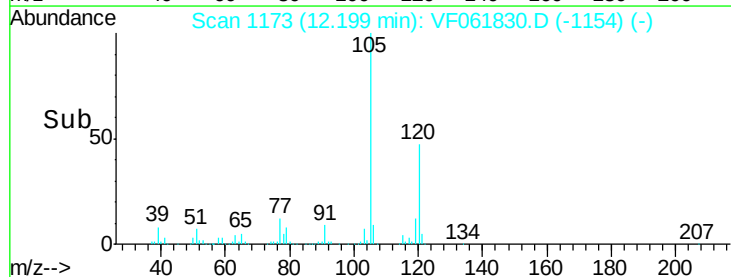
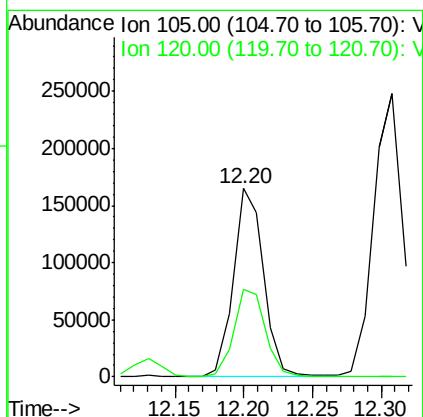
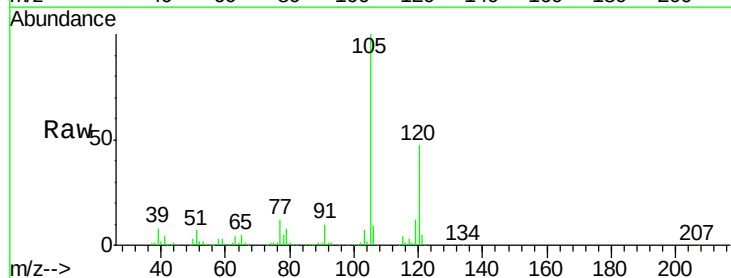
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

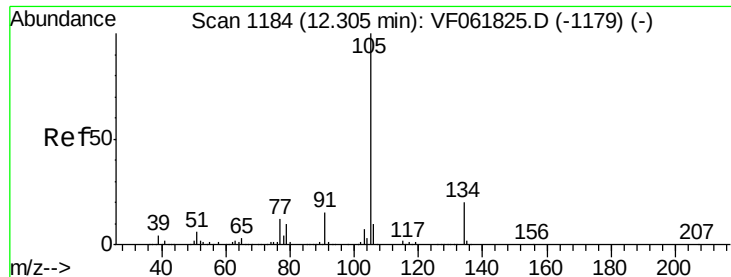
Tot Ion:119 Resp: 282997
 Ion Ratio Lower Upper
 119 100
 91 54.4 26.3 78.8
 134 25.8 12.9 38.7



#84
 1,2,4-Trimethylbenzene
 Concen: 20.463 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion:105 Resp: 252063
 Ion Ratio Lower Upper
 105 100
 120 46.8 26.1 78.3





#85

sec-Butylbenzene

Concen: 20.916 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampled :

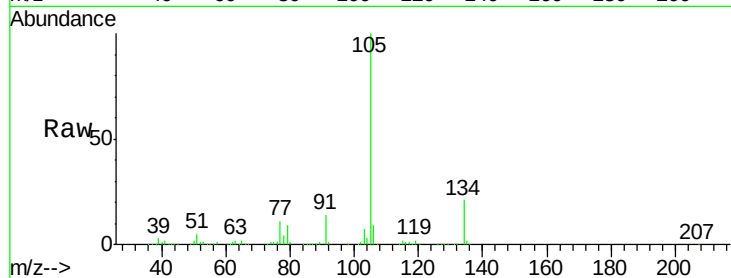
VF0304SBS01

Tot Ion:105 Resp: 371438

Ion Ratio Lower Upper

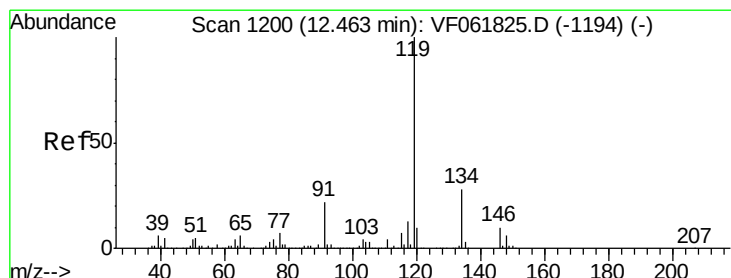
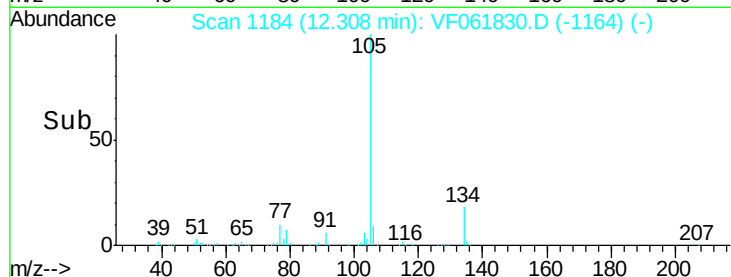
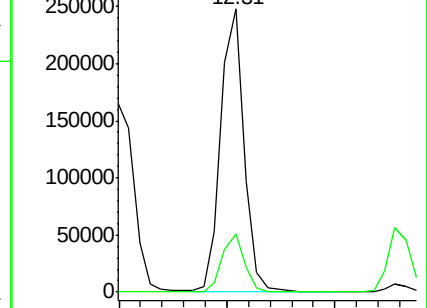
105 100

134 20.6 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: 21.109 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

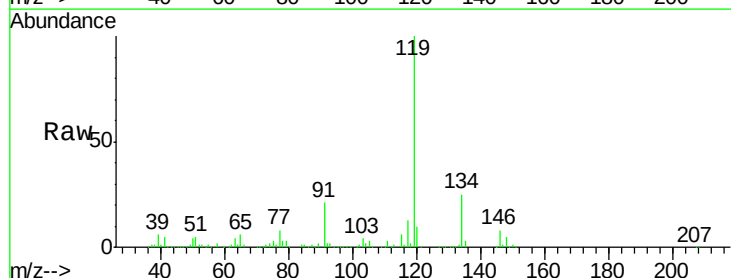
Tgt Ion:119 Resp: 314597

Ion Ratio Lower Upper

119 100

134 25.4 13.7 41.1

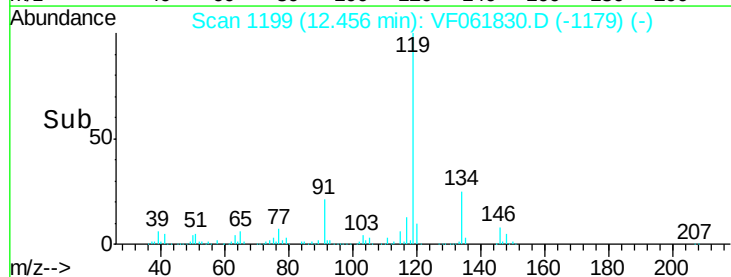
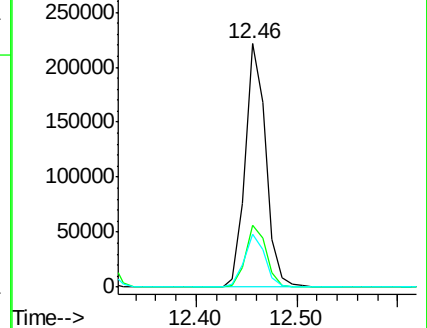
91 21.5 10.8 32.4

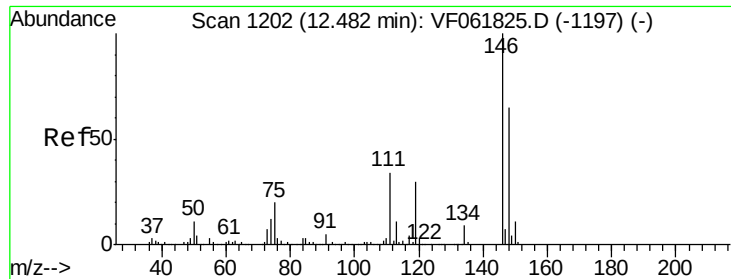


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

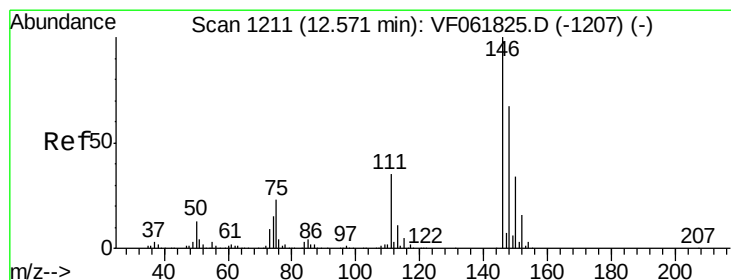
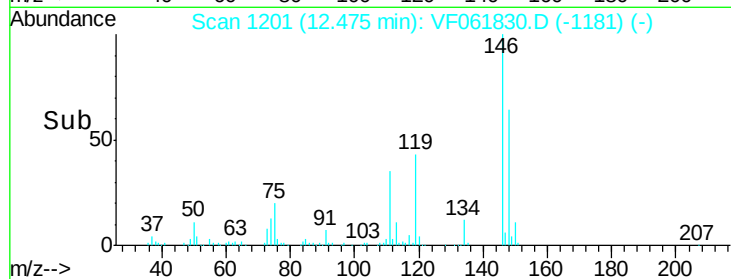
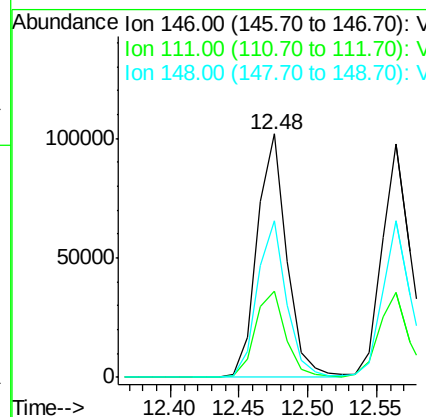
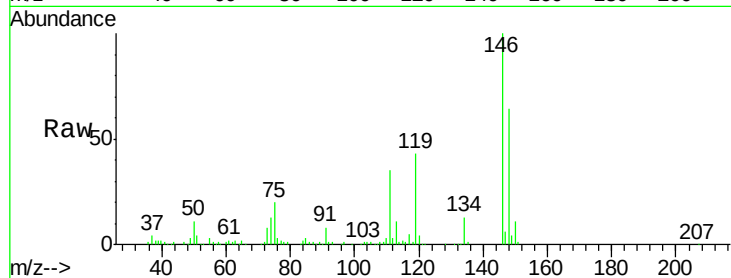




#87
 1,3-Dichlorobenzene
 Concen: 20.538 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

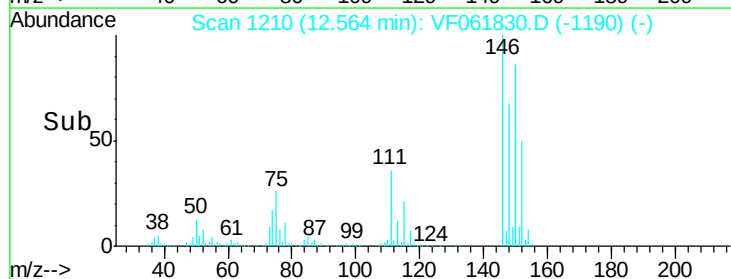
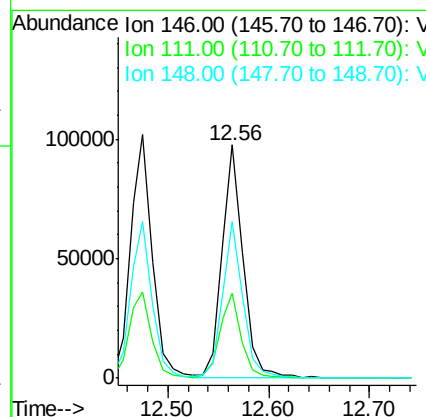
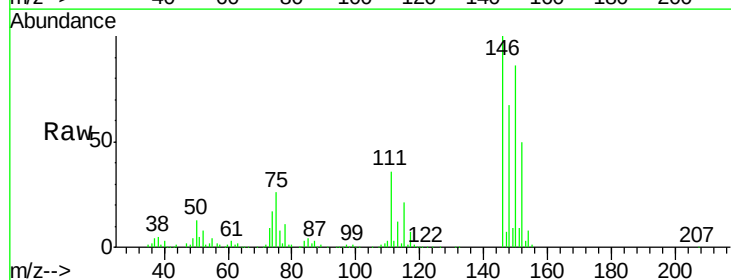
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

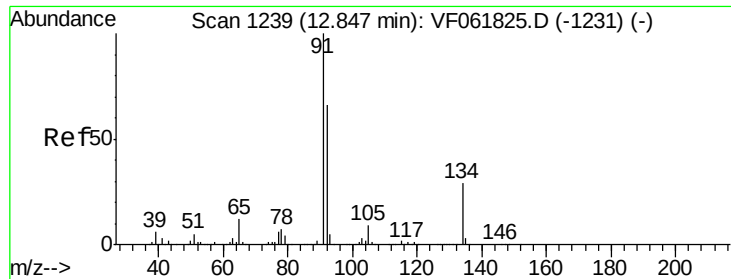
Tot Ion:146 Resp: 153448
 Ion Ratio Lower Upper
 146 100
 111 35.2 17.5 52.6
 148 64.1 31.4 94.3



#88
 1,4-Dichlorobenzene
 Concen: 19.897 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion:146 Resp: 142962
 Ion Ratio Lower Upper
 146 100
 111 36.4 18.4 55.4
 148 67.1 32.2 96.6

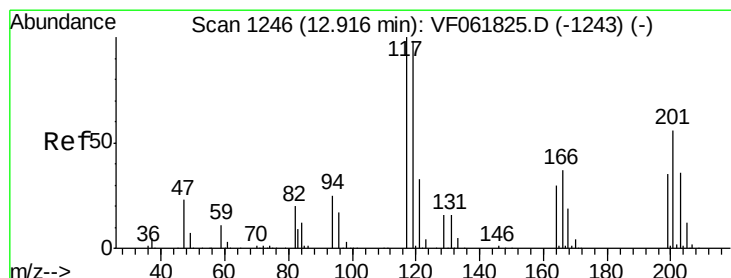
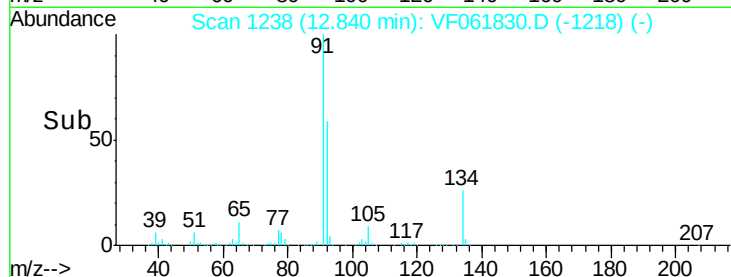
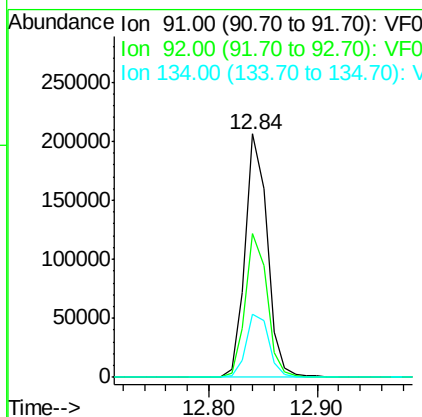
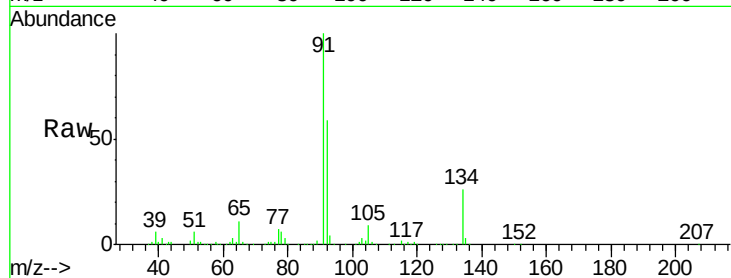




#89
n-Butylbenzene
Concen: 20.845 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

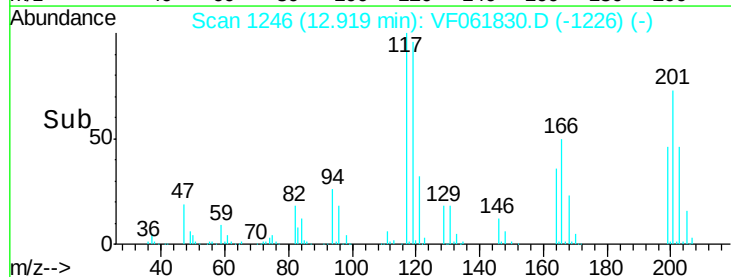
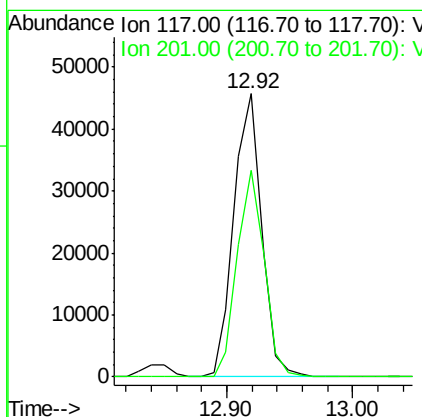
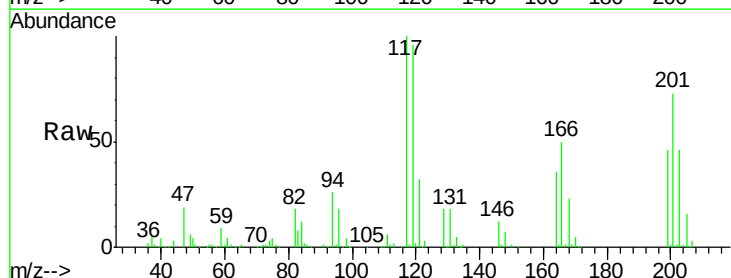
Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

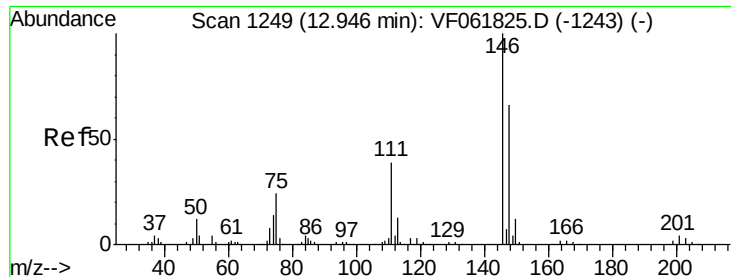
Tot Ion: 91 Resp: 293358
Ion Ratio Lower Upper
91 100
92 59.1 31.4 94.3
134 25.9 12.3 36.9



#90
Hexachloroethane
Concen: 20.120 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF061830.D
Acq: 4 Mar 2019 20:50

Tgt Ion: 117 Resp: 69740
Ion Ratio Lower Upper
117 100
201 72.8 36.2 108.6

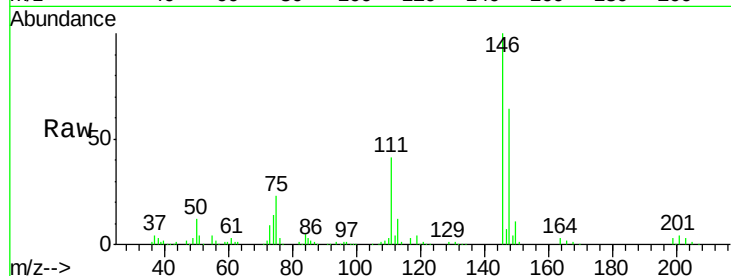




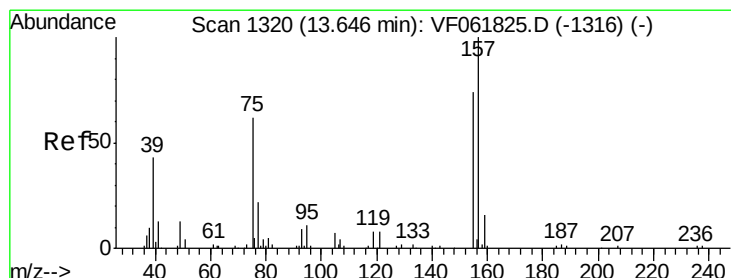
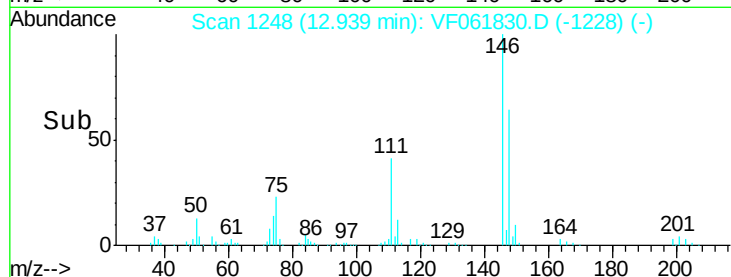
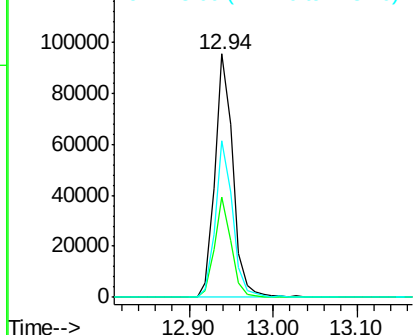
#91
 1,2-Dichlorobenzene
 Concen: 19.891 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Tot Ion:146 Resp: 141352
 Ion Ratio Lower Upper
 146 100
 111 41.2 20.2 60.5
 148 64.2 32.3 96.9

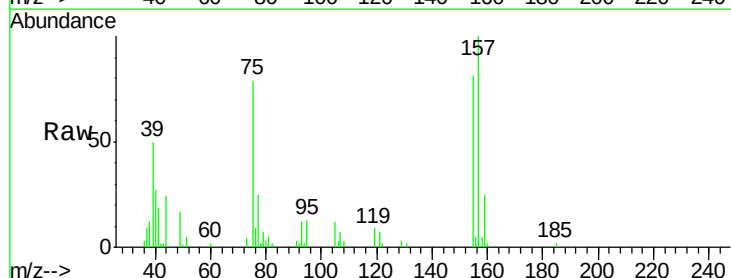


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

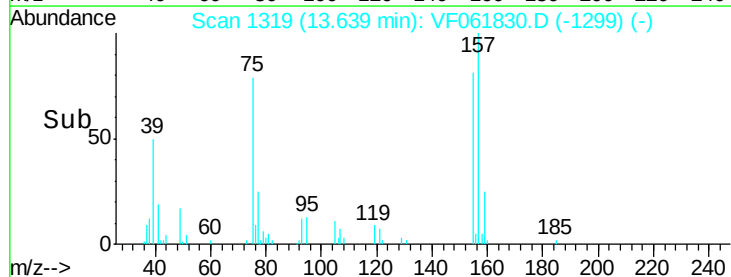
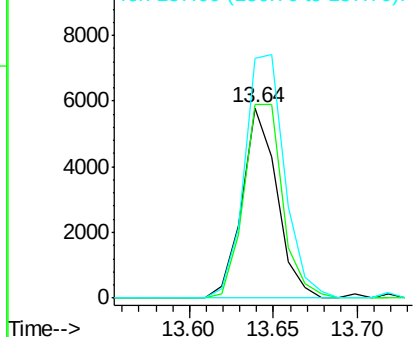


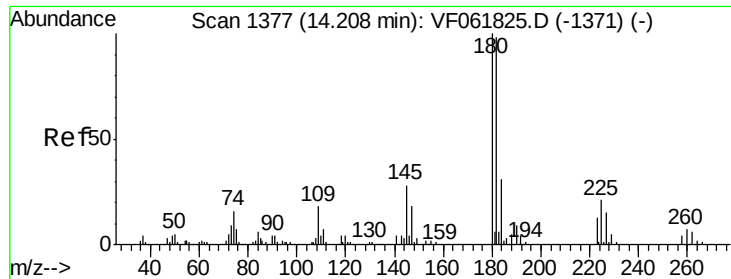
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.918 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion: 75 Resp: 8336
 Ion Ratio Lower Upper
 75 100
 155 102.2 48.9 146.8
 157 126.3 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

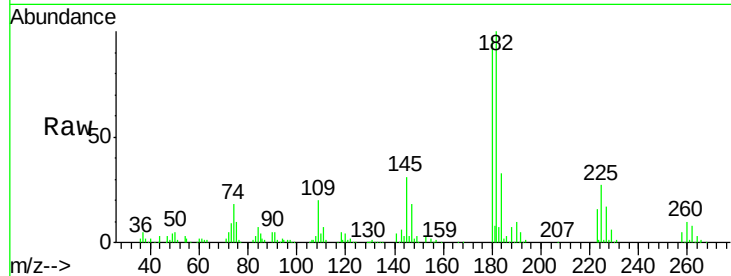




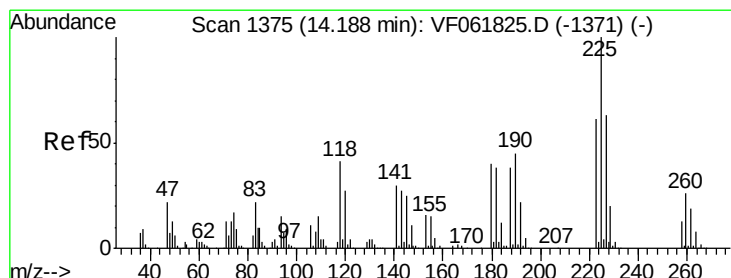
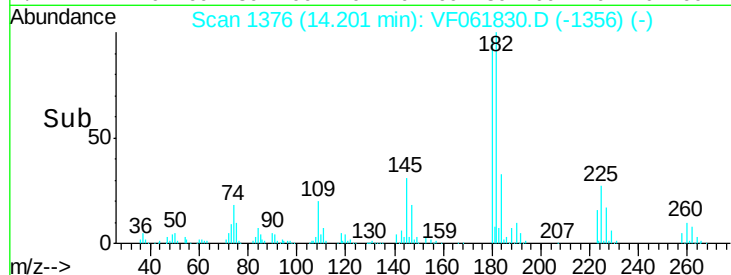
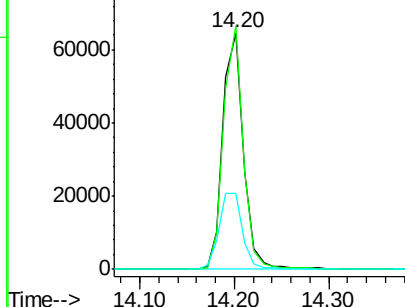
#93
 1,2,4-Trichlorobenzene
 Concen: 19.232 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Tot Ion:180 Resp: 97963
 Ion Ratio Lower Upper
 180 100
 182 103.0 48.6 145.9
 145 31.9 15.3 45.9

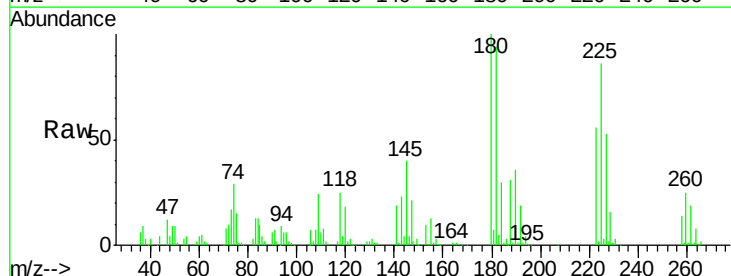


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

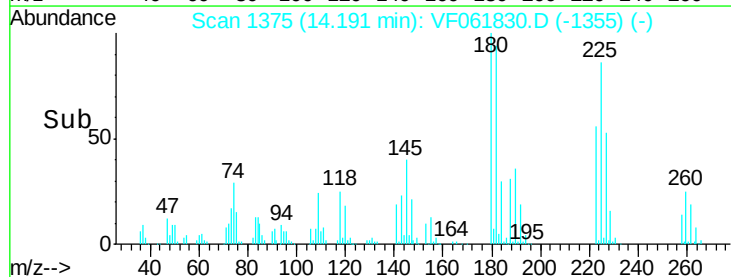
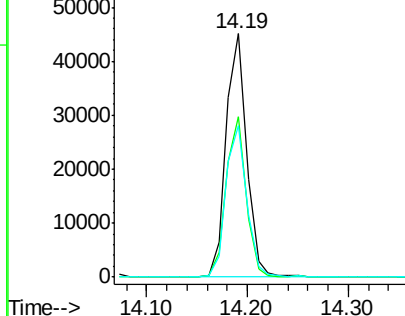


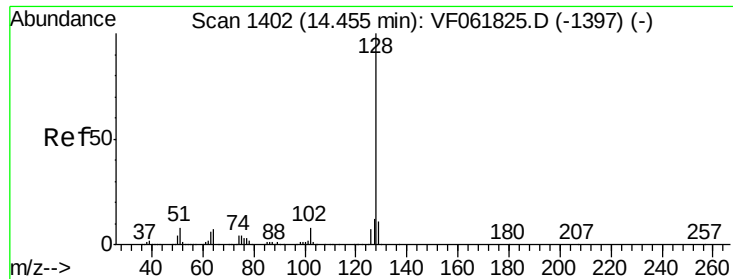
#94
 Hexachlorobutadiene
 Concen: 20.463 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061830.D
 Acq: 4 Mar 2019 20:50

Tgt Ion:225 Resp: 64373
 Ion Ratio Lower Upper
 225 100
 223 65.8 30.9 92.7
 227 62.3 32.1 96.3



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





#95

Naphthalene

Concen: 19.913 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

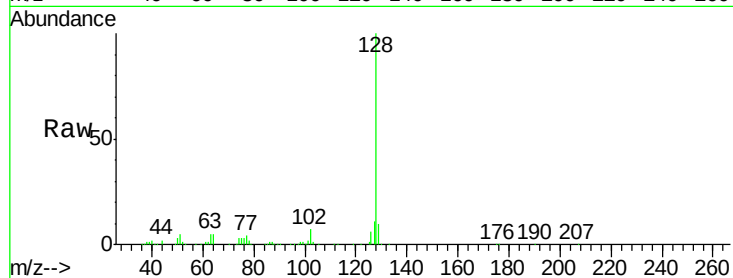
Tot Ion:128 Resp: 177463

Ion Ratio Lower Upper

128 100

127 11.0 9.8 14.6

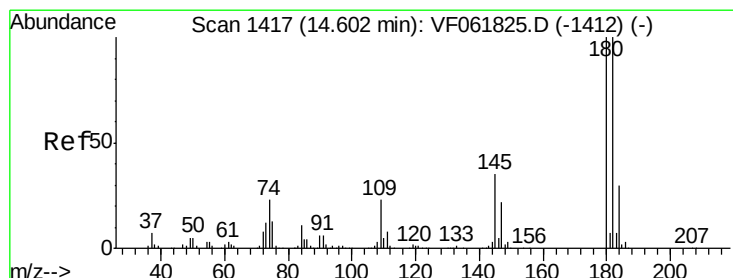
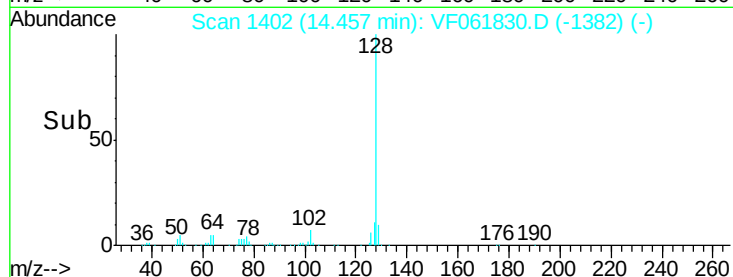
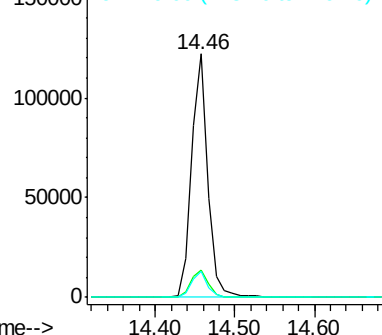
129 10.5 9.4 14.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.657 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF061830.D

Acq: 4 Mar 2019 20:50

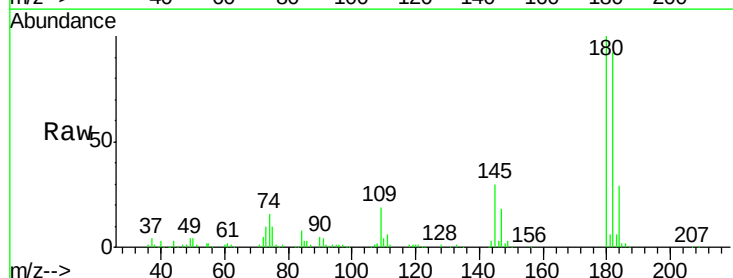
Tgt Ion:180 Resp: 91898

Ion Ratio Lower Upper

180 100

182 92.0 49.0 147.2

145 30.2 15.4 46.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

