

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080718\
 Data File : VF059908.D
 Acq On : 7 Aug 2018 8:03
 Operator : VA/AP
 Sample : VF0806SBS02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 07 08:28:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	171678	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.78	114	240465	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	240904	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	172523	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	172799	55.83	ug/l	0.00
Spiked Amount 50.000			Recovery =	111.66%		
35) Dibromofluoromethane	4.30	113	127976	53.49	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.98%		
50) Toluene-d8	7.72	98	270671	53.17	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.34%		
62) 4-Bromofluorobenzene	11.52	95	167678	58.62	ug/l	0.00
Spiked Amount 50.000			Recovery =	117.24%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	66096	22.53	ug/l	91
3) Chloromethane	1.09	50	25255	18.61	ug/l	97
4) Vinyl Chloride	1.16	62	26243	18.88	ug/l	92
5) Bromomethane	1.34	94	26861	20.47	ug/l	95
6) Chloroethane	1.43	64	19523	22.36	ug/l #	78
7) Trichlorofluoromethane	1.53	101	64085	16.85	ug/l	92
8) Diethyl Ether	1.71	74	11290	18.70	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.91	101	40434	19.26	ug/l	91
10) Methyl Iodide	1.97	142	67189	20.83	ug/l	98
11) Tert butyl alcohol	2.69	59	13367	107.07	ug/l #	92
12) 1,1-Dichloroethene	1.87	96	31858	20.77	ug/l	90
13) Acrolein	2.09	56	4391	58.69	ug/l	95
14) Allyl chloride	2.19	41	47350	18.52	ug/l	87
15) Acrylonitrile	3.08	53	22665	99.07	ug/l #	78
16) Acetone	2.34	43	63755	111.58	ug/l	98
17) Carbon Disulfide	1.89	76	81546	19.92	ug/l #	93
18) Methyl Acetate	2.46	43	20695	21.47	ug/l	100
19) Methyl tert-butyl Ether	2.55	73	91191	21.00	ug/l	98
20) Methylene Chloride	2.28	84	20094	9.22	ug/l	92
21) trans-1,2-Dichloroethene	2.42	96	32391	21.26	ug/l	100
22) Diisopropyl ether	2.93	45	98767	20.08	ug/l	99
23) Vinyl Acetate	3.34	43	249768	104.90	ug/l	97
24) 1,1-Dichloroethane	3.01	63	77678	21.69	ug/l	99
25) 2-Butanone	4.52	43	66436	106.93	ug/l	95
26) 2,2-Dichloropropane	3.77	77	41534	19.92	ug/l	99
27) cis-1,2-Dichloroethene	3.64	96	35741	20.87	ug/l	86
28) Bromochloromethane	3.89	49	25011	19.77	ug/l	91
29) Tetrahydrofuran	4.26	42	25384	110.98	ug/l	92
30) Chloroform	4.04	83	104587	21.58	ug/l	95
31) Cyclohexane	3.88	56	33946	19.15	ug/l	87
32) 1,1,1-Trichloroethane	4.29	97	81662	21.06	ug/l	96
36) 1,1-Dichloropropene	4.47	75	57559	20.69	ug/l	93
37) Ethyl Acetate	4.30	43	28286	23.69	ug/l #	97
38) Carbon Tetrachloride	4.18	117	99797	25.06	ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	44842	21.50	ug/l	92
40) Benzene	4.82	78	99869	19.03	ug/l	97
41) Methacrylonitrile	4.92	41	11396	18.08	ug/l #	81
42) 1,2-Dichloroethane	5.13	62	82473	21.41	ug/l	99
43) Isopropyl Acetate	7.12	43	26046	21.18	ug/l #	98
44) Trichloroethene	5.68	130	38774	20.93	ug/l	83
45) 1,2-Dichloropropane	6.42	63	25847	20.25	ug/l	99
46) Dibromomethane	6.26	93	27051	21.00	ug/l	90
47) Bromodichloromethane	6.56	83	78870	22.39	ug/l	98
48) Methyl methacrylate	6.88	41	20512	21.44	ug/l #	82
49) 1,4-Dioxane	6.87	88	2289	386.68	ug/l	99
51) 4-Methyl-2-Pentanone	8.41	43	142942	113.69	ug/l	95
52) Toluene	7.79	92	74828	21.30	ug/l	93
53) t-1,3-Dichloropropene	8.44	75	59829	22.33	ug/l	100
54) cis-1,3-Dichloropropene	7.46	75	56902	20.58	ug/l	98
55) 1,1,2-Trichloroethane	8.65	97	26887	21.26	ug/l	93
56) Ethyl methacrylate	8.77	69	24488	19.83	ug/l	98
57) 1,3-Dichloropropane	9.01	76	46968	21.63	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.79	63	19093	114.12	ug/l	100
59) 2-Hexanone	9.64	43	100839	113.54	ug/l	98
60) Dibromochloromethane	8.87	129	52491	22.12	ug/l	91
61) 1,2-Dibromoethane	9.15	107	34858	22.62	ug/l	94
64) Tetrachloroethene	8.31	164	50165	24.14	ug/l	95
65) Chlorobenzene	9.95	112	102882	21.04	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.08	131	54192	22.28	ug/l	96
67) Ethyl Benzene	10.05	91	184206	21.62	ug/l	100
68) m/p-Xylenes	10.27	106	127291	43.23	ug/l	99
69) o-Xylene	10.84	106	67923	21.77	ug/l	94
70) Styrene	10.91	104	100479	21.58	ug/l	94
71) Bromoform	10.90	173	33261	22.31	ug/l	98
73) Isopropylbenzene	11.24	105	226240	21.05	ug/l	99
74) N-amyl acetate	11.47	43	49392	20.43	ug/l	95
75) 1,1,1,2-Tetrachloroethane	11.79	83	40158	19.90	ug/l	89
76) 1,2,3-Trichloropropane	11.89	75	39185	22.61	ug/l	96
77) Bromobenzene	11.60	156	59492	20.36	ug/l	91
78) n-propylbenzene	11.69	91	268348	21.15	ug/l	99
79) 2-Chlorotoluene	11.82	91	168131	20.94	ug/l	99
80) 1,3,5-Trimethylbenzene	11.92	105	210694	21.12	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.96	75	18612	29.90	ug/l #	84
82) 4-Chlorotoluene	12.00	91	180977	20.76	ug/l	98
83) tert-Butylbenzene	12.23	119	199269	20.52	ug/l	98
84) 1,2,4-Trimethylbenzene	12.29	105	218447	21.29	ug/l	98
85) sec-Butylbenzene	12.39	105	274461	21.27	ug/l	98
86) p-Isopropyltoluene	12.54	119	237316	21.88	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	118853	21.47	ug/l	97
88) 1,4-Dichlorobenzene	12.65	146	114062	20.98	ug/l	94
89) n-Butylbenzene	12.93	91	228464	22.10	ug/l	99
90) Hexachloroethane	13.00	117	63619	21.25	ug/l	93
91) 1,2-Dichlorobenzene	13.02	146	112351	21.09	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	13.72	75	11142	21.91	ug/l	95

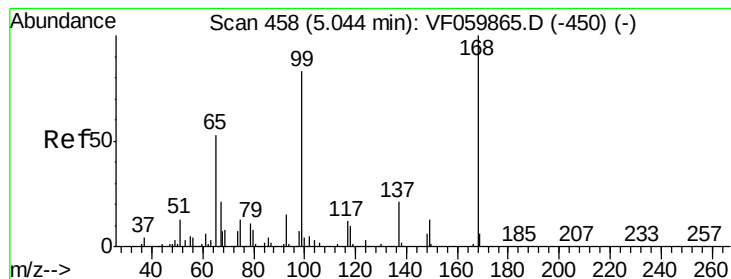
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QLast Update : Sat Aug 04 07:08:36 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.28	180	87503	21.63	µg/l	99
94) Hexachlorobutadiene	14.27	225	60137	21.04	µg/l	94
95) Naphthalene	14.53	128	142268	20.31	µg/l	98
96) 1,2,3-Trichlorobenzene	14.68	180	85657	21.44	µg/l	91

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.02 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

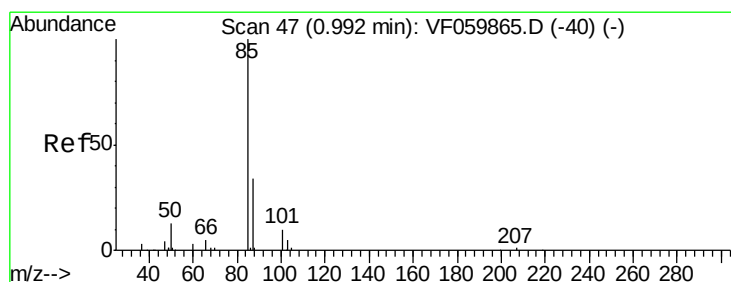
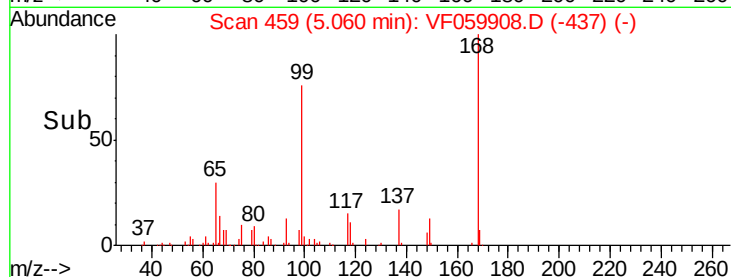
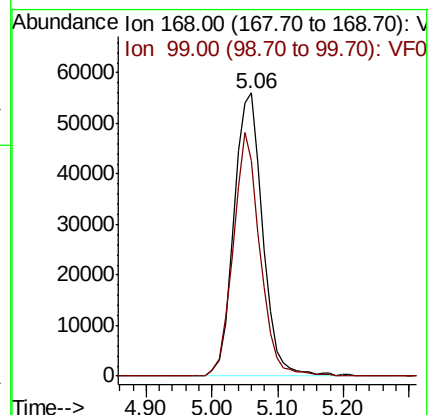
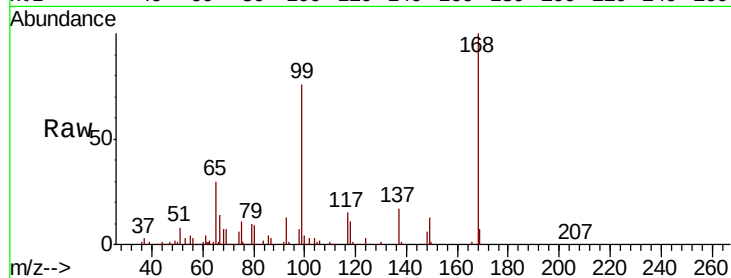
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 171678

Ion Ratio Lower Upper

168 100

99 76.1 66.3 99.5



#2

Dichlorodifluoromethane

Concen: 22.53 ug/l

RT: 0.99 min Scan# 46

Delta R.T. -0.00 min

Lab File: VF059908.D

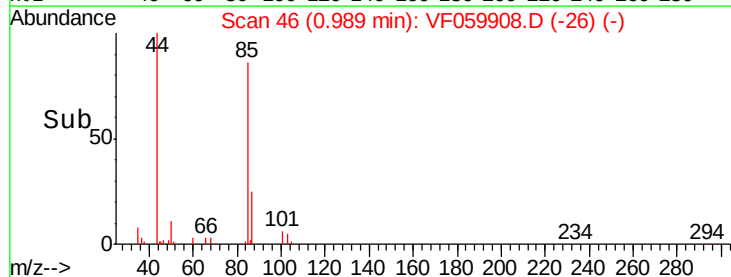
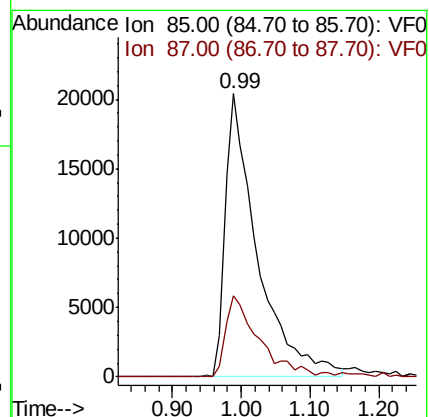
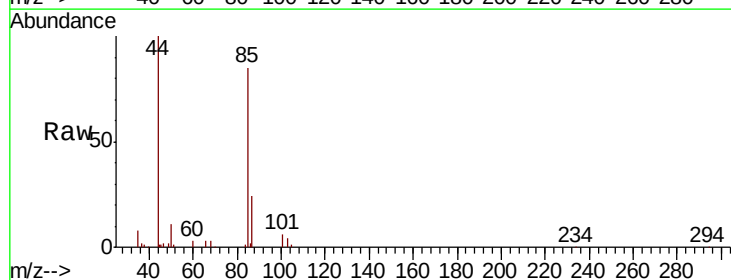
Acq: 7 Aug 2018 8:03

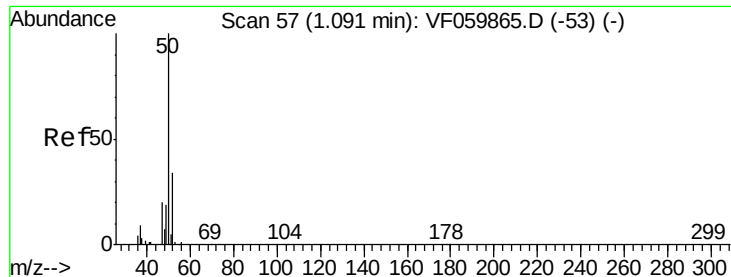
Tgt Ion: 85 Resp: 66096

Ion Ratio Lower Upper

85 100

87 28.5 16.9 50.7





#3

Chloromethane

Concen: 18.61 ug/l

RT: 1.09 min Scan# 56

Delta R.T. -0.00 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

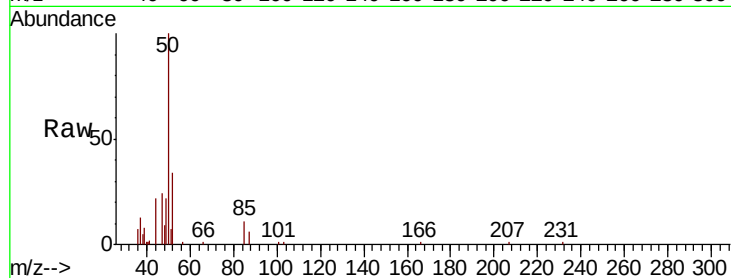
ClientSampleId :

Tot Ion: 50 Resp: 25255

Ion Ratio Lower Upper

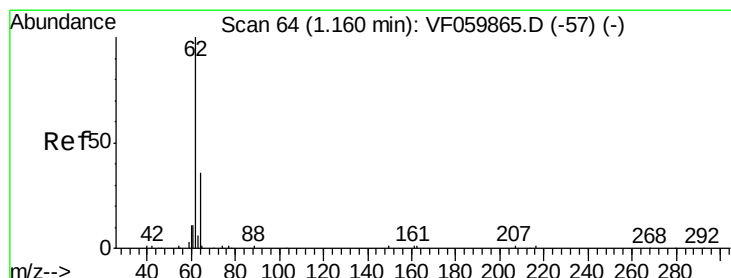
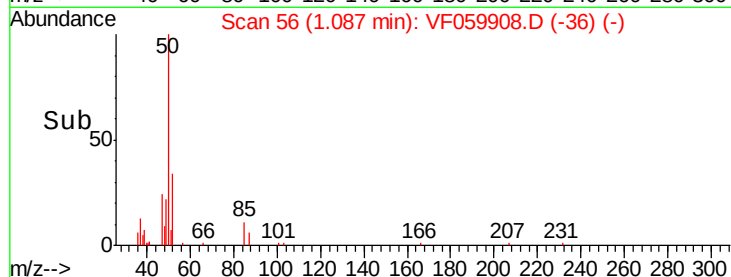
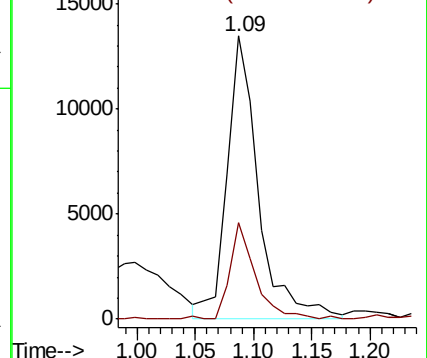
50 100

52 33.9 25.8 38.8



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 18.88 ug/l

RT: 1.16 min Scan# 63

Delta R.T. -0.00 min

Lab File: VF059908.D

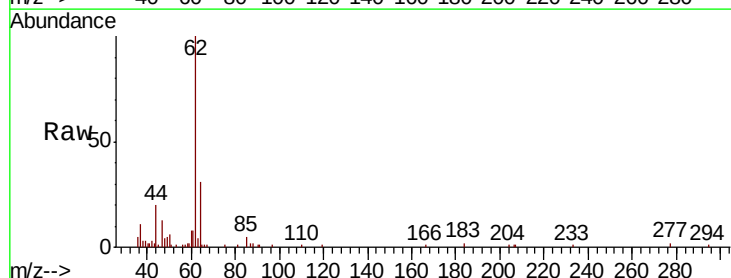
Acq: 7 Aug 2018 8:03

Tgt Ion: 62 Resp: 26243

Ion Ratio Lower Upper

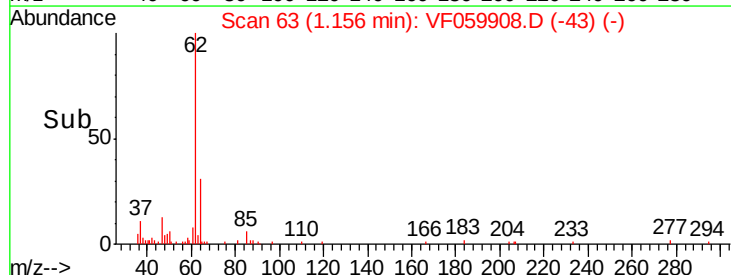
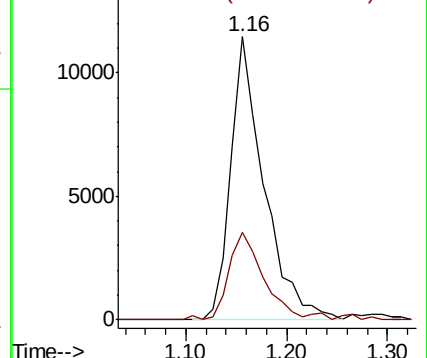
62 100

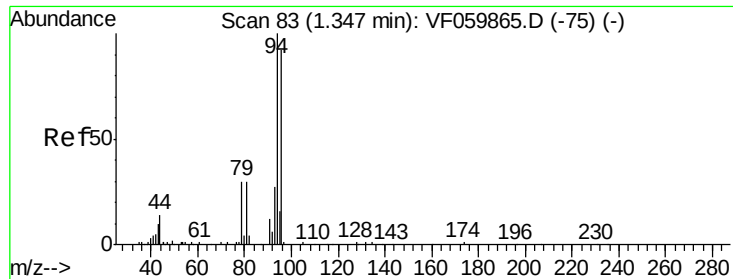
64 30.9 28.5 42.7



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 20.47 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.00 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

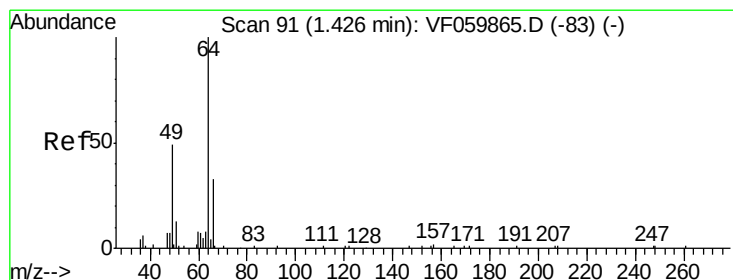
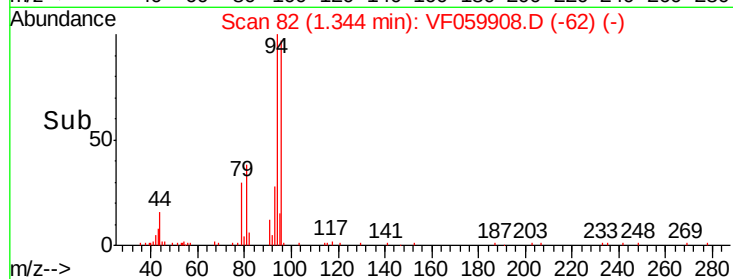
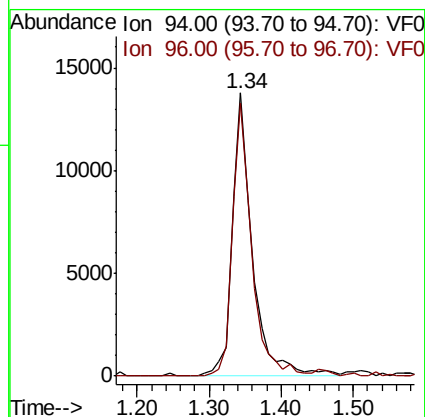
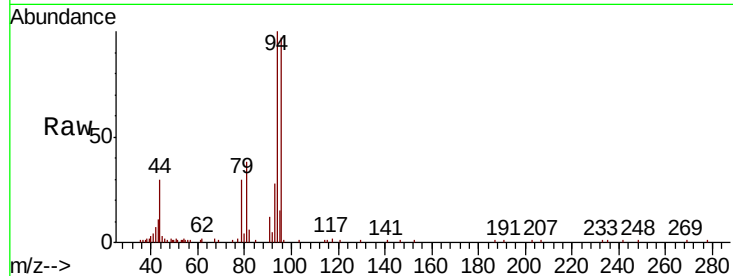
ClientSampleId :

Tot Ion: 94 Resp: 26861

Ion Ratio Lower Upper

94 100

96 96.6 73.8 110.8



#6

Chloroethane

Concen: 22.36 ug/l

RT: 1.43 min Scan# 91

Delta R.T. 0.01 min

Lab File: VF059908.D

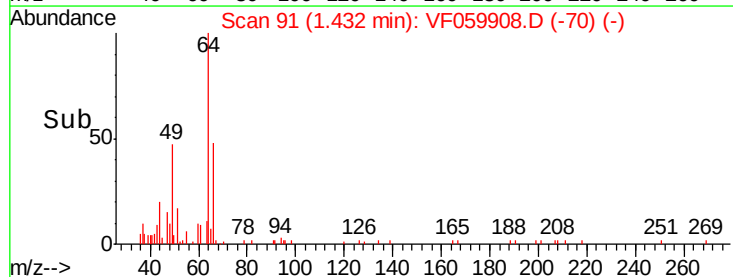
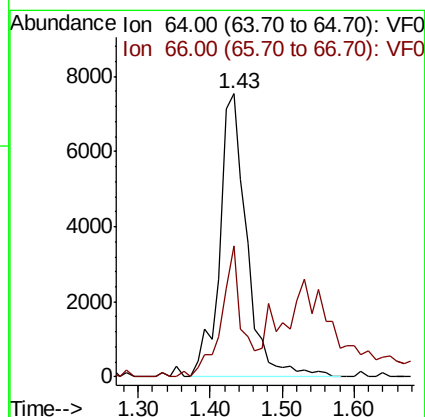
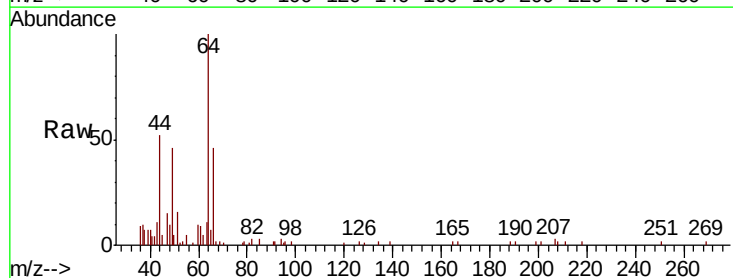
Acq: 7 Aug 2018 8:03

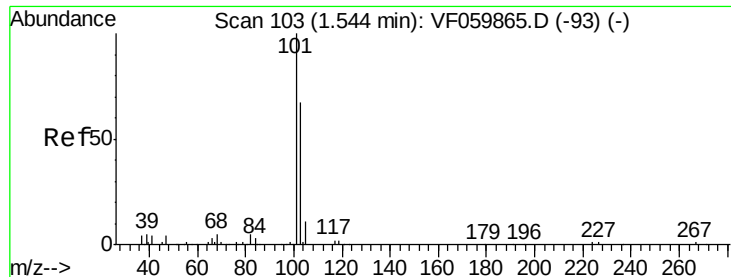
Tgt Ion: 64 Resp: 19523

Ion Ratio Lower Upper

64 100

66 46.1 26.9 40.3#



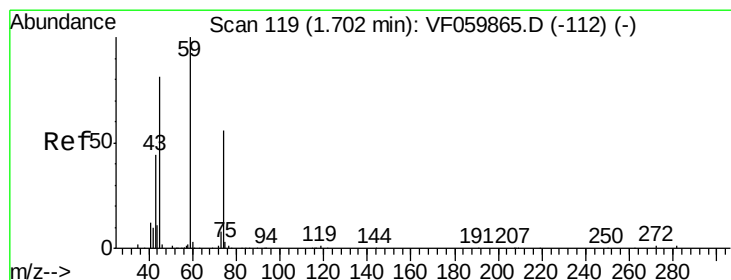
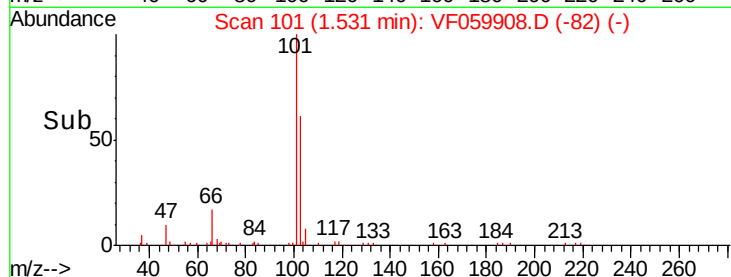
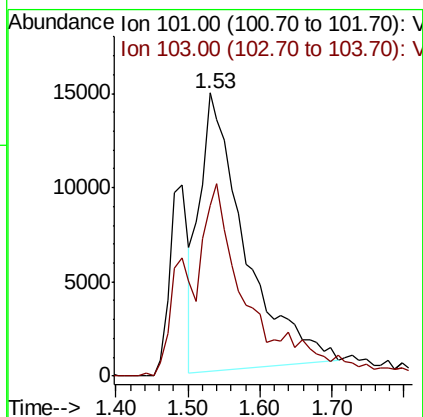
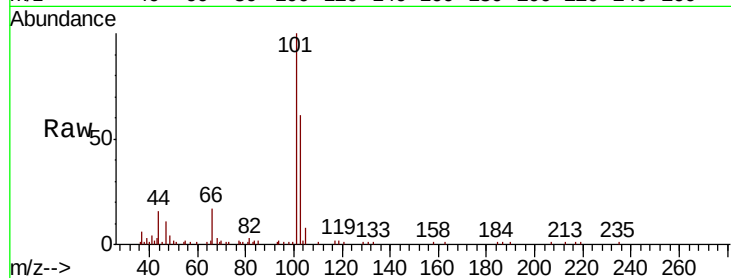


#7

Trichlorofluoromethane
 Concen: 16.85 ug/l
 RT: 1.53 min Scan# 101
 Delta R.T. -0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Instrument :
 MSVOA_F
 ClientSampleId :

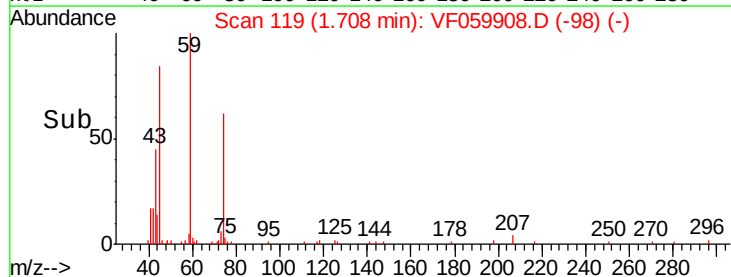
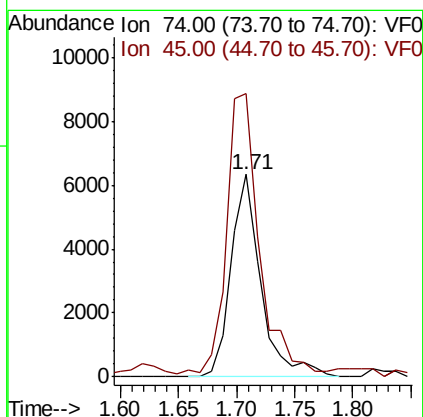
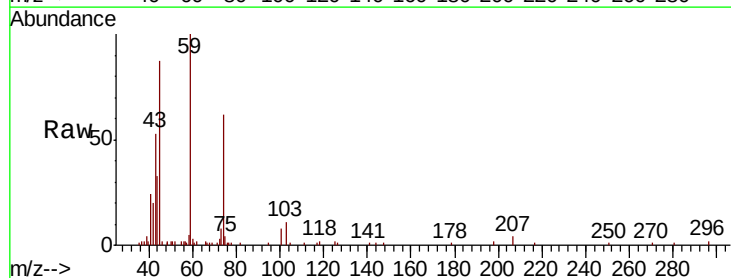
Tot Ion:101 Resp: 64085
 Ion Ratio Lower Upper
 101 100
 103 60.5 53.6 80.4

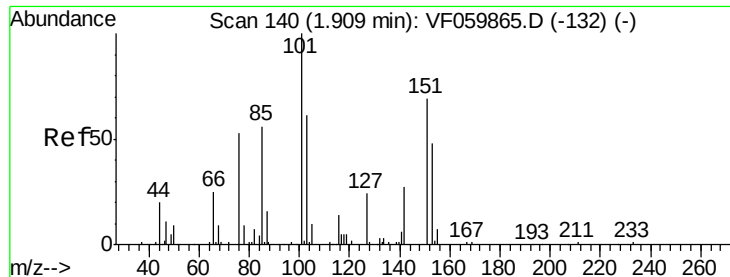


#8

Diethyl Ether
 Concen: 18.70 ug/l
 RT: 1.71 min Scan# 119
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion: 74 Resp: 11290
 Ion Ratio Lower Upper
 74 100
 45 139.7 73.6 220.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.26 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampleId :

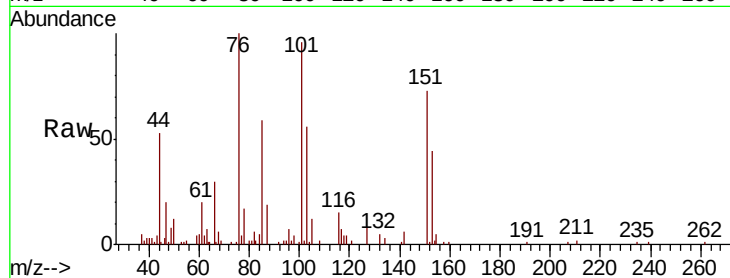
Tot Ion:101 Resp: 40434

Ion Ratio Lower Upper

101 100

85 61.6 44.5 66.7

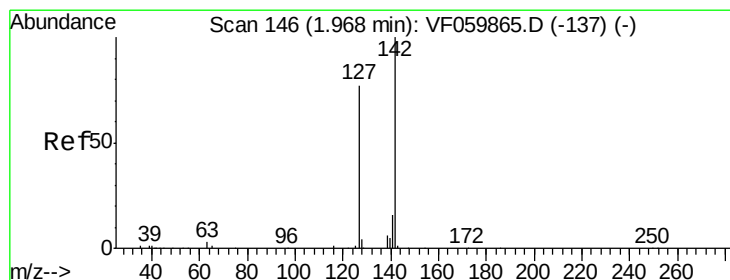
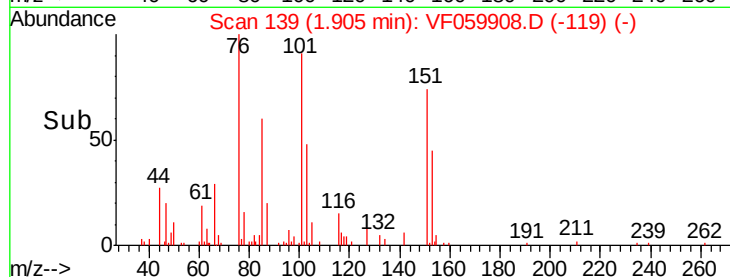
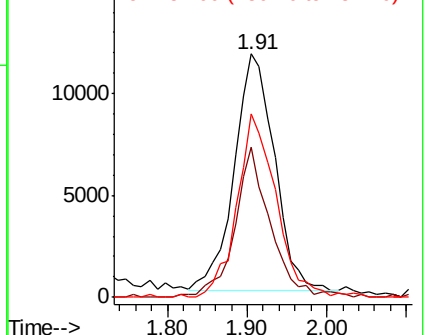
151 75.5 53.8 80.8



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: 20.83 ug/l

RT: 1.97 min Scan# 146

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

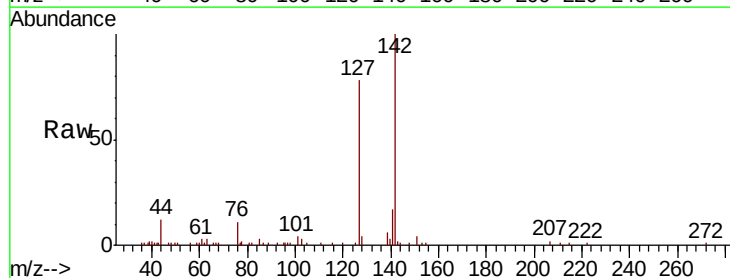
Tgt Ion:142 Resp: 67189

Ion Ratio Lower Upper

142 100

127 78.5 61.5 92.3

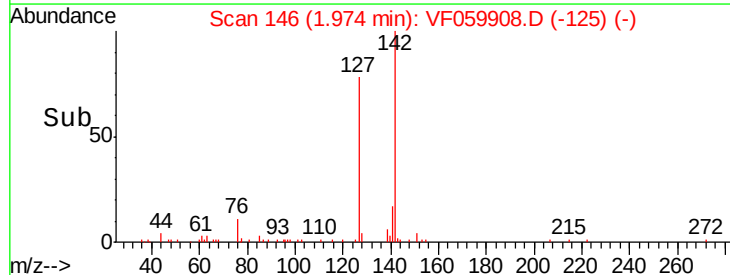
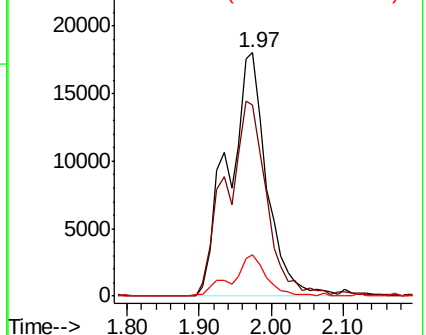
141 17.0 13.0 19.4

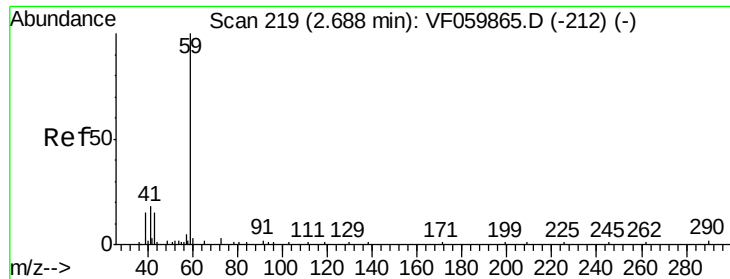


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



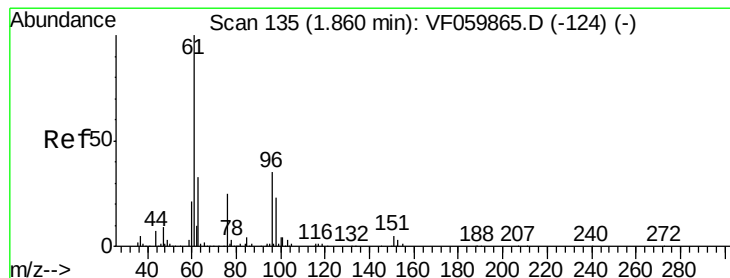
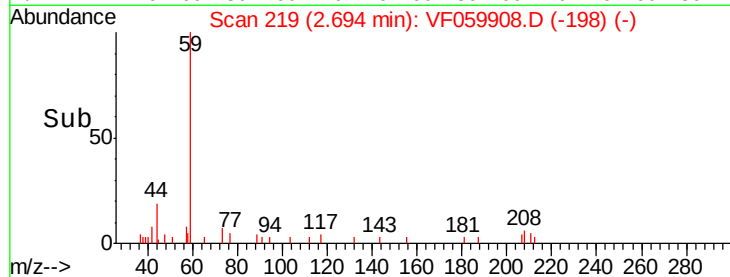
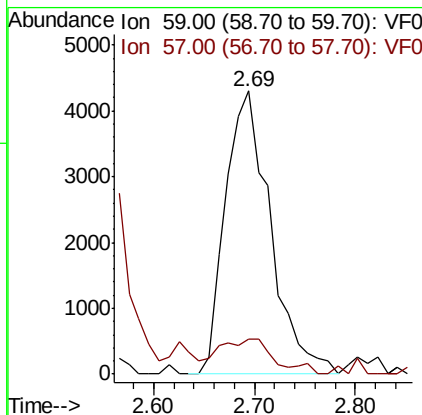
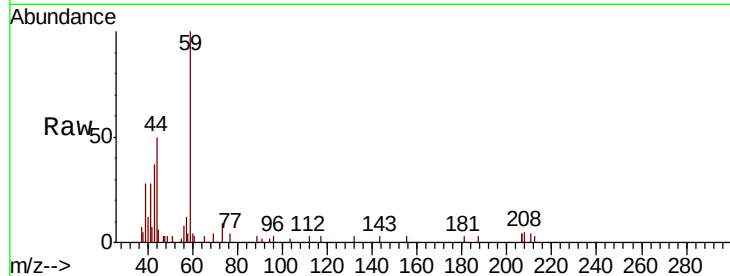


#11

Tert butyl alcohol
 Concen: 107.07 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Instrument :
 MSVOA_F
 ClientSampleId :

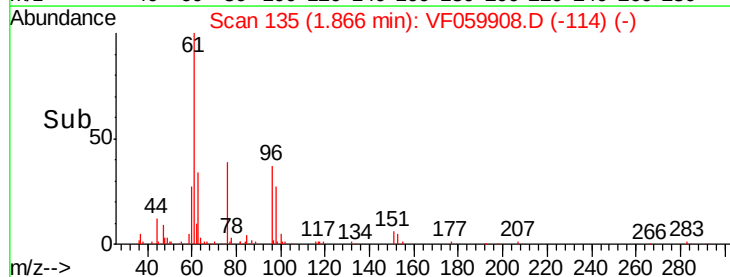
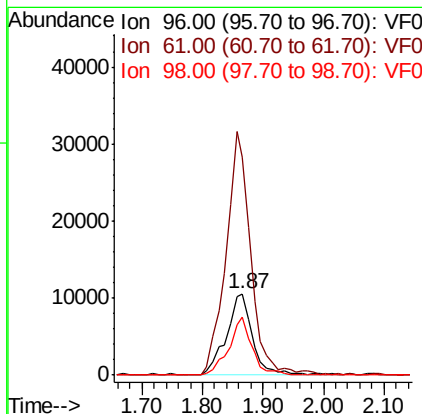
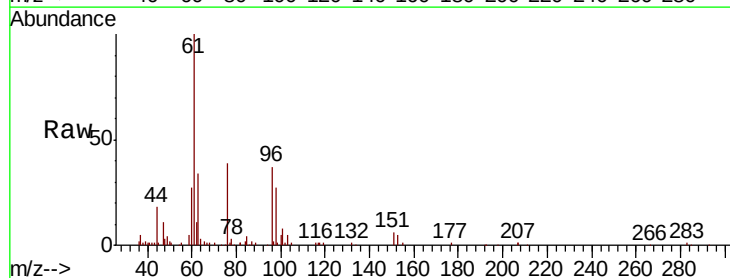
Tot Ion: 59 Resp: 13367
 Ion Ratio Lower Upper
 59 100
 57 12.4 7.6 11.4#

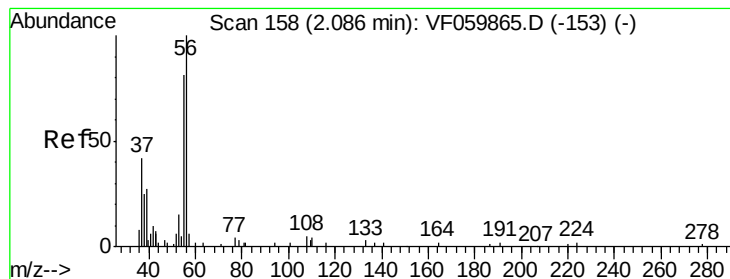


#12

1,1-Dichloroethene
 Concen: 20.77 ug/l
 RT: 1.87 min Scan# 135
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion: 96 Resp: 31858
 Ion Ratio Lower Upper
 96 100
 61 267.5 230.2 345.2
 98 73.3 52.7 79.1





#13

Acrolein

Concen: 58.69 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

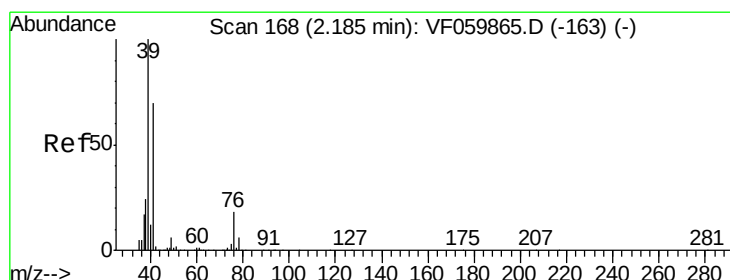
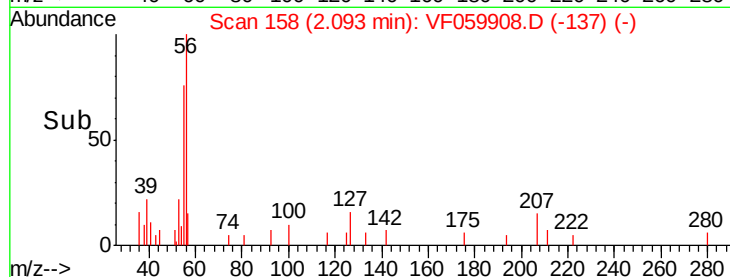
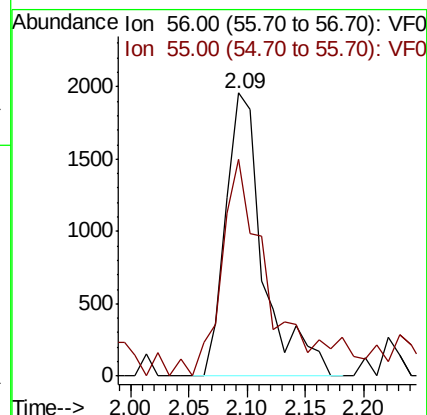
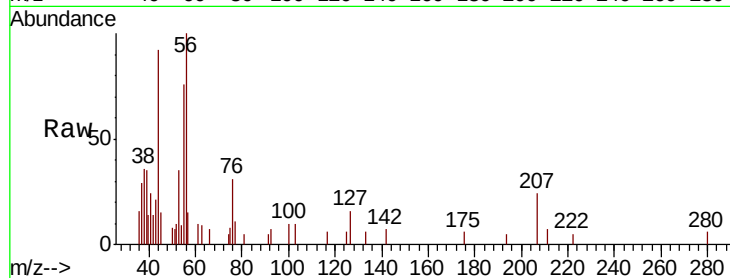
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 4391

Ion Ratio Lower Upper

56 100

55 76.4 64.6 96.8



#14

Allyl chloride

Concen: 18.52 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

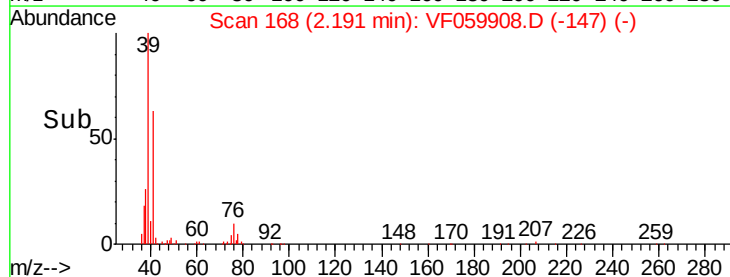
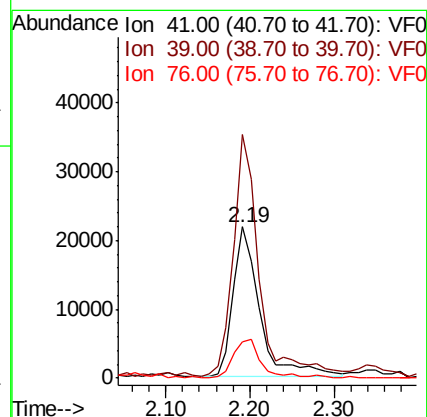
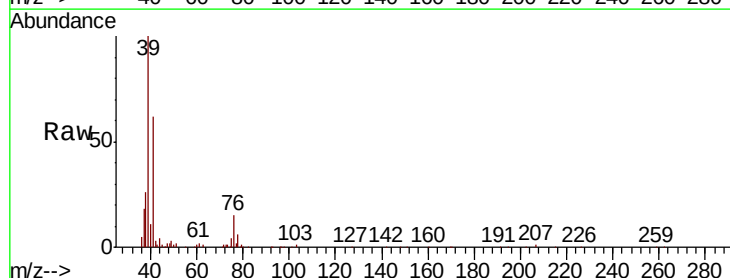
Tgt Ion: 41 Resp: 47350

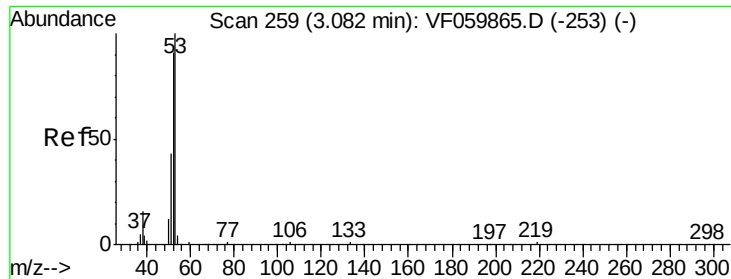
Ion Ratio Lower Upper

41 100

39 160.9 114.6 171.8

76 24.3 21.0 31.4





#15

Acrylonitrile

Concen: 99.07 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampleId :

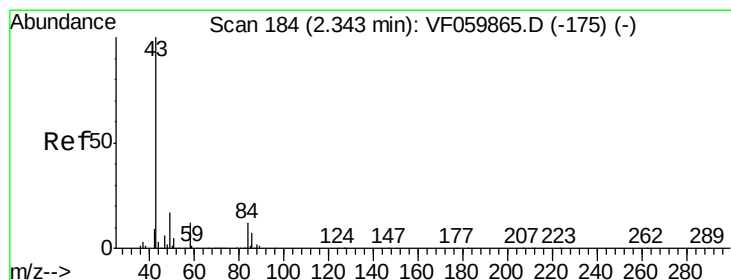
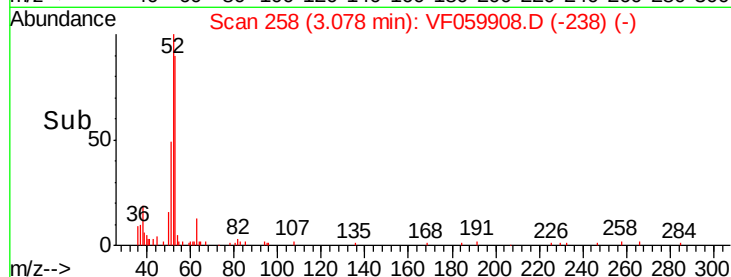
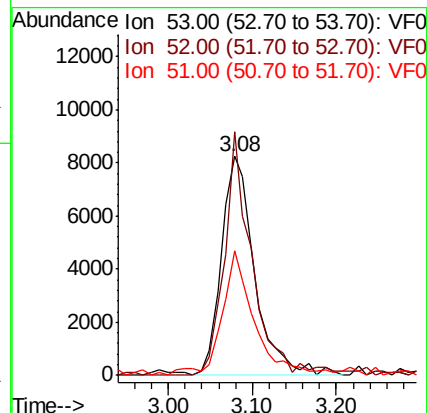
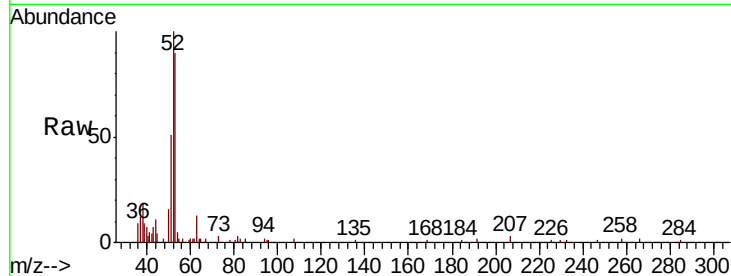
Tot Ion: 53 Resp: 22665

Ion Ratio Lower Upper

53 100

52 111.3 72.9 109.3#

51 57.2 34.5 51.7#



#16

Acetone

Concen: 111.58 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF059908.D

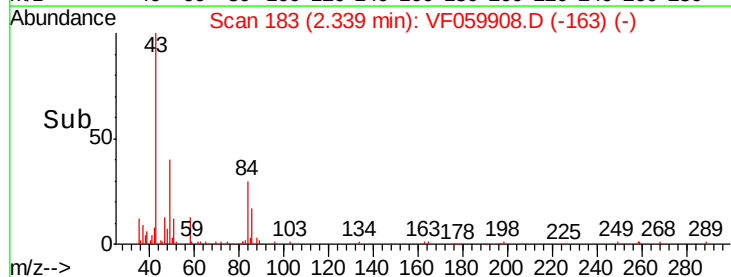
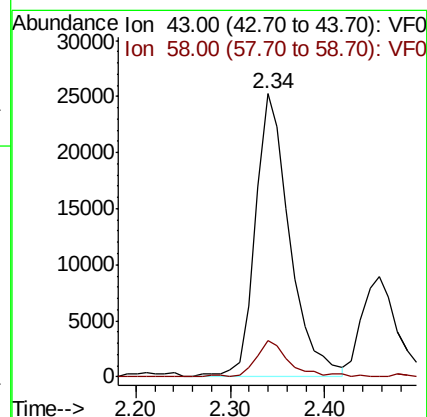
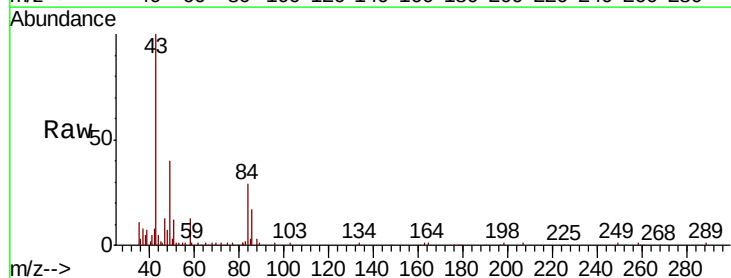
Acq: 7 Aug 2018 8:03

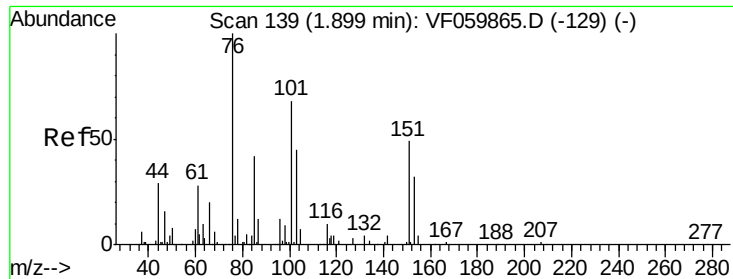
Tgt Ion: 43 Resp: 63755

Ion Ratio Lower Upper

43 100

58 12.7 9.4 14.0





#17

Carbon Disulfide

Concen: 19.92 ug/l

RT: 1.89 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

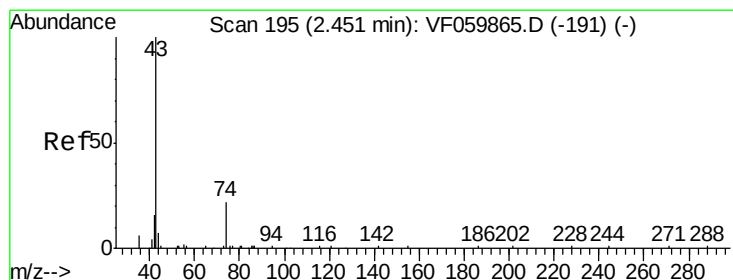
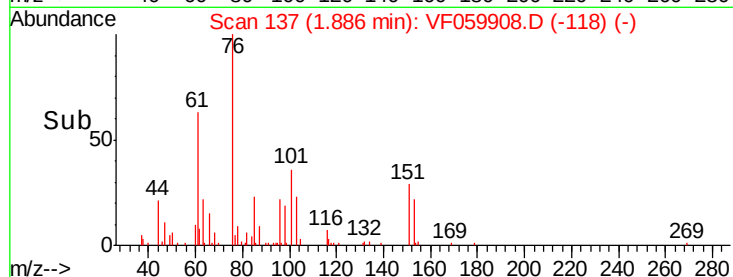
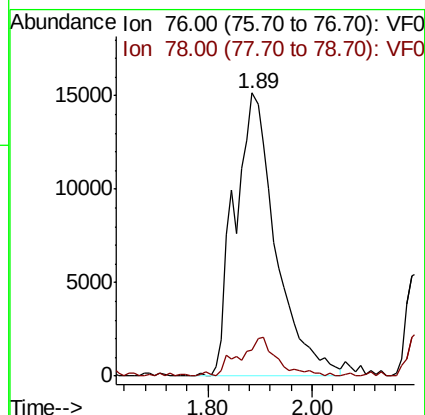
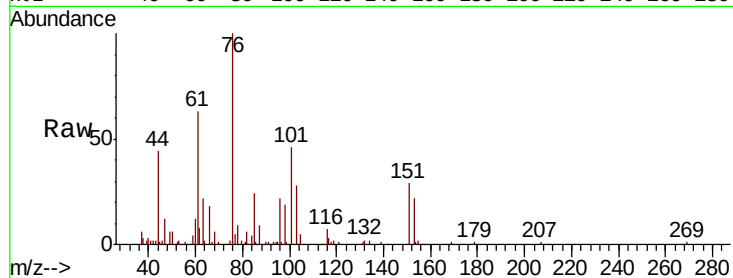
ClientSampleId :

Tot Ion: 76 Resp: 81546

Ion Ratio Lower Upper

76 100

78 9.1 9.3 13.9#



#18

Methyl Acetate

Concen: 21.47 ug/l

RT: 2.46 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF059908.D

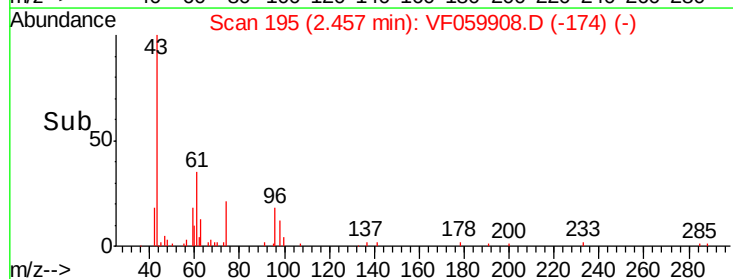
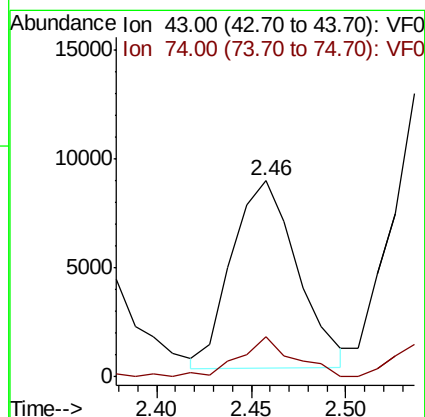
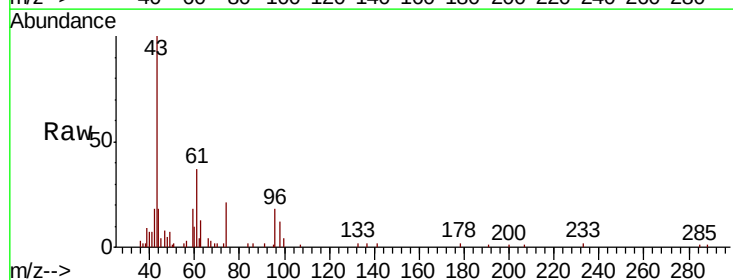
Acq: 7 Aug 2018 8:03

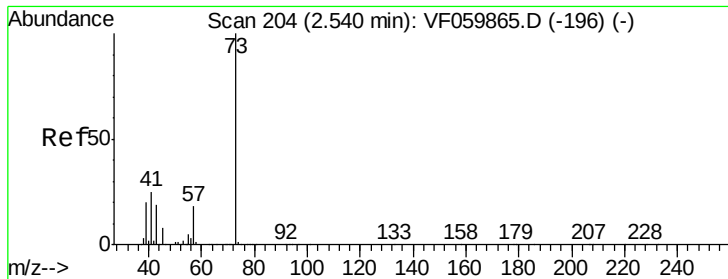
Tgt Ion: 43 Resp: 20695

Ion Ratio Lower Upper

43 100

74 20.6 16.3 24.5



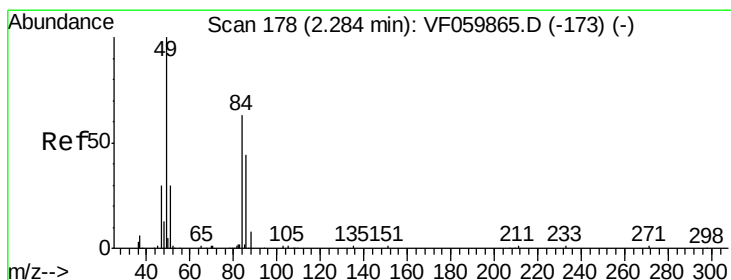
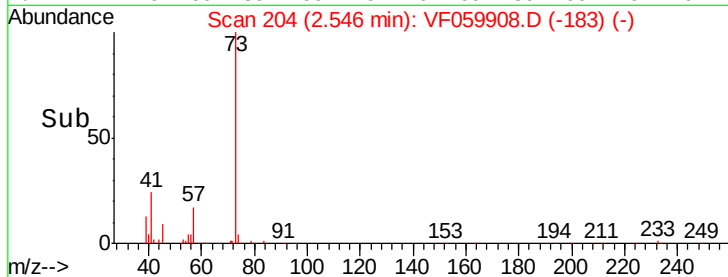
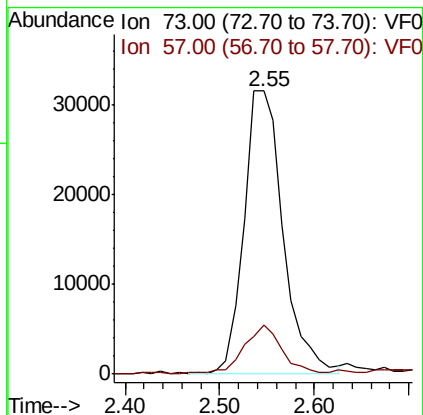
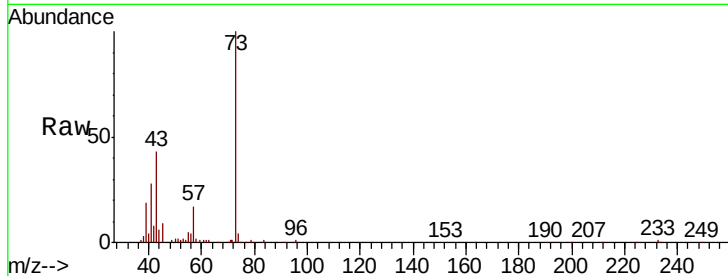


#19

Methyl tert-butyl Ether
 Concen: 21.00 ug/l
 RT: 2.55 min Scan# 204
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Instrument :
 MSVOA_F
 ClientSampleId :

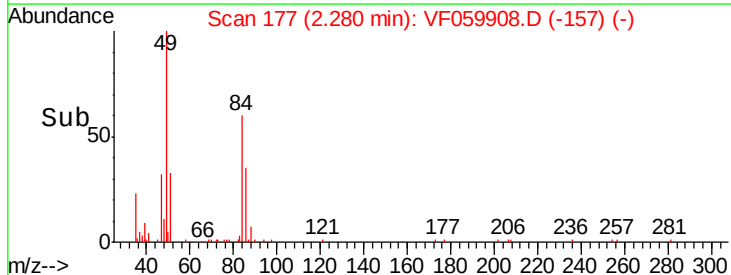
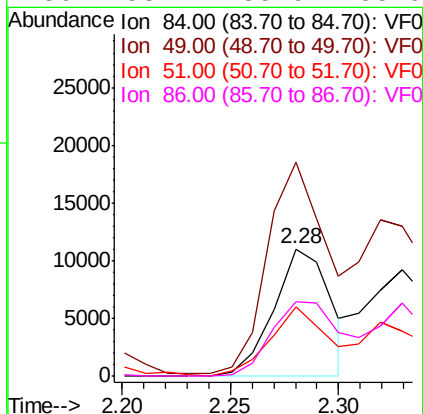
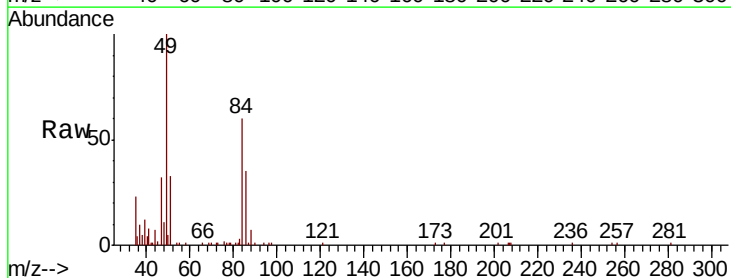
Tot Ion: 73 Resp: 91191
 Ion Ratio Lower Upper
 73 100
 57 17.2 14.3 21.5

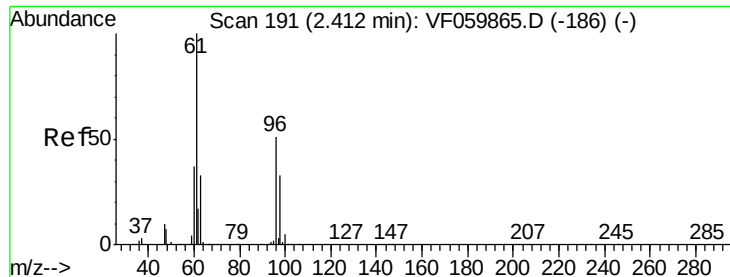


#20

Methylene Chloride
 Concen: 9.22 ug/l
 RT: 2.28 min Scan# 177
 Delta R.T. -0.00 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion: 84 Resp: 20094
 Ion Ratio Lower Upper
 84 100
 49 167.9 128.7 193.1
 51 54.8 39.3 58.9
 86 58.7 55.9 83.9





#21

trans-1,2-Dichloroethene

Concen: 21.26 ug/l

RT: 2.42 min Scan# 191

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :
MSVOA_F
ClientSampled :

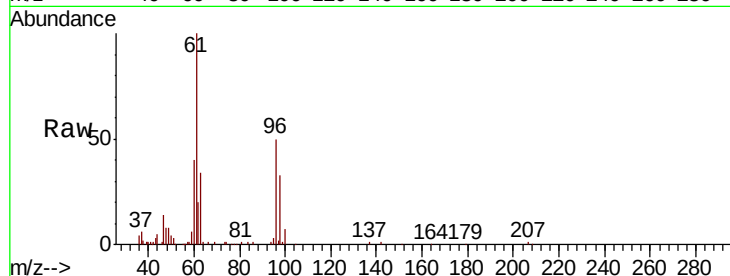
Tot Ion: 96 Resp: 32391

Ion Ratio Lower Upper

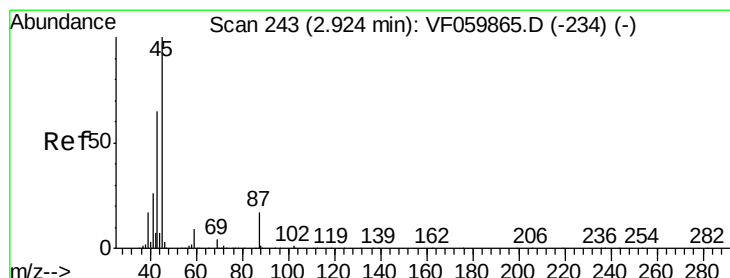
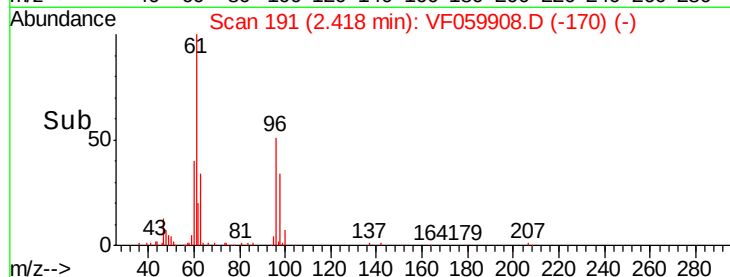
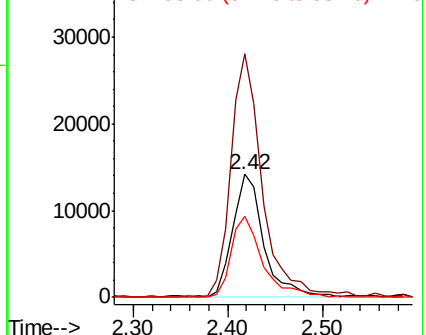
96 100

61 198.0 158.2 237.4

98 65.7 52.0 78.0



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 20.08 ug/l

RT: 2.93 min Scan# 243

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Tgt Ion: 45 Resp: 98767

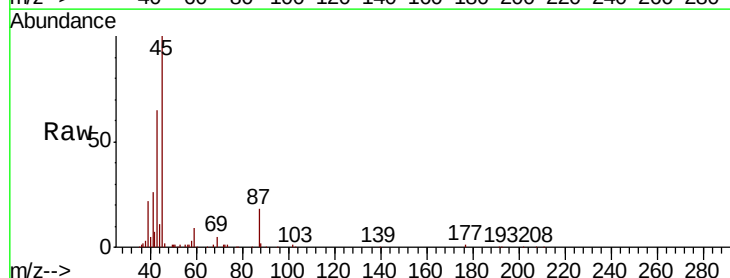
Ion Ratio Lower Upper

45 100

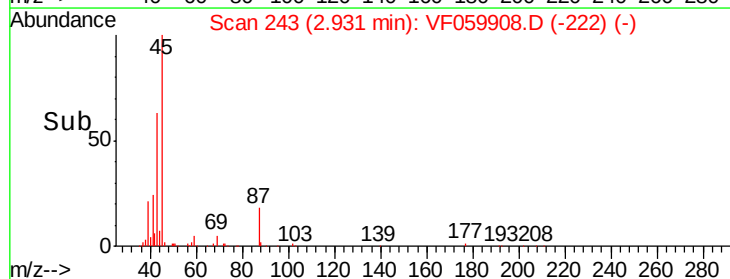
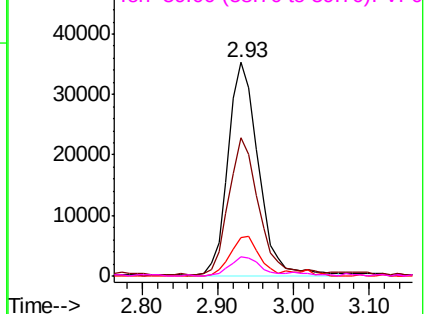
43 64.7 52.1 78.1

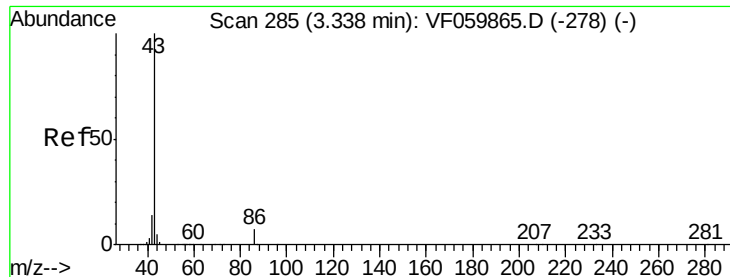
87 17.9 13.8 20.8

59 8.7 7.5 11.3



Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 104.90 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

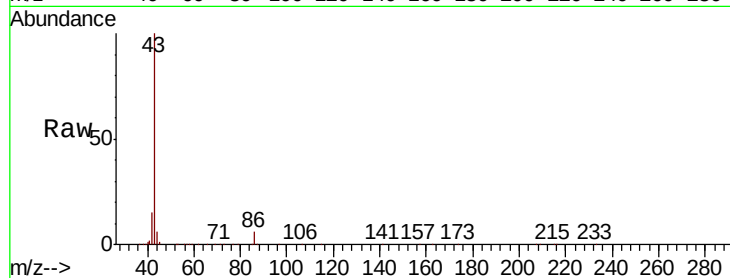
ClientSampleId :

Tot Ion: 43 Resp: 249768

Ion Ratio Lower Upper

43 100

86 5.9 5.6 8.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.34

100000

80000

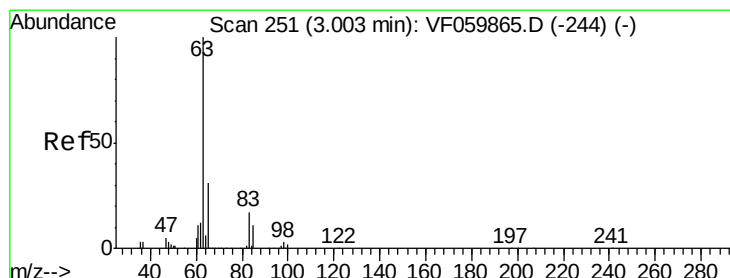
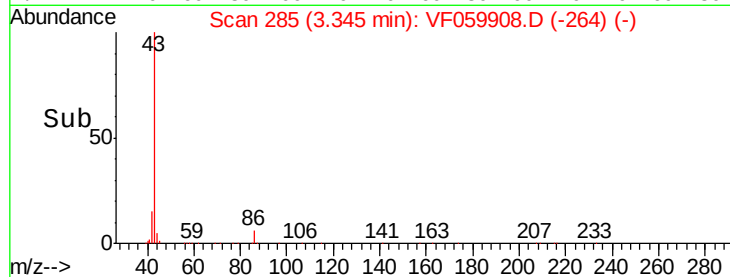
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.69 ug/l

RT: 3.01 min Scan# 251

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

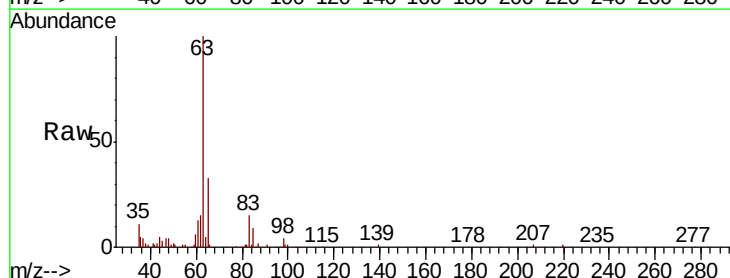
Tgt Ion: 63 Resp: 77678

Ion Ratio Lower Upper

63 100

98 4.0 1.9 5.7

100 1.5 1.1 3.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

3.01

40000

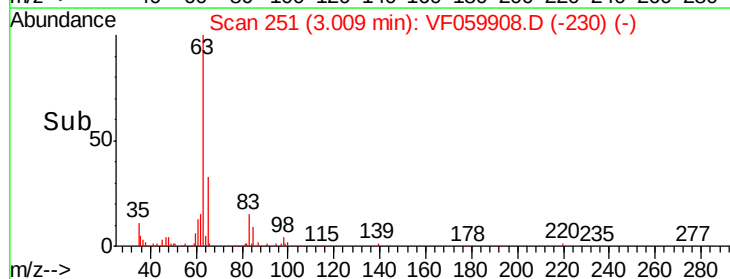
30000

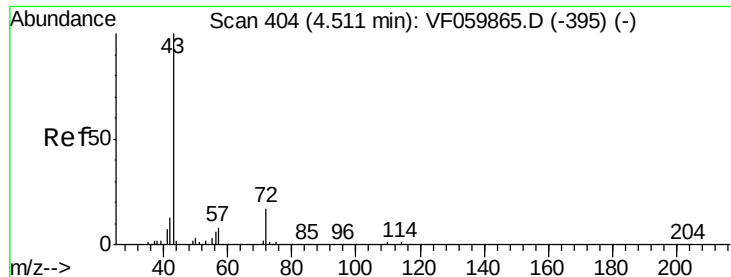
20000

10000

0

Time-->





#25

2-Butanone

Concen: 106.93 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

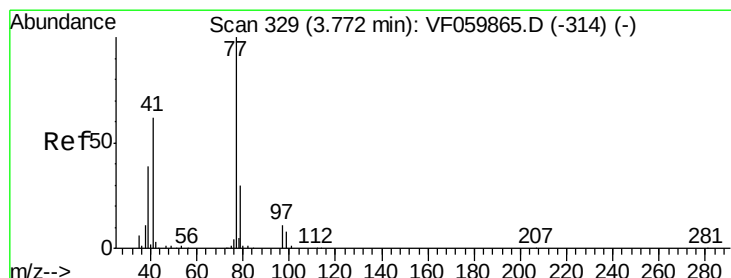
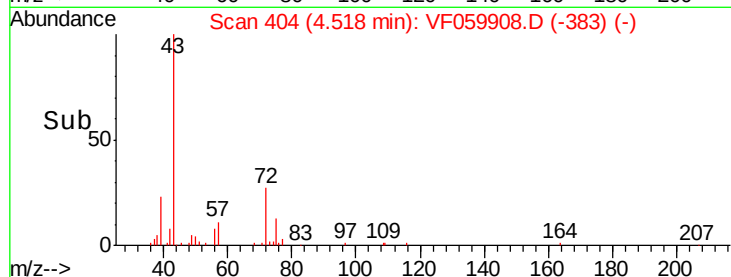
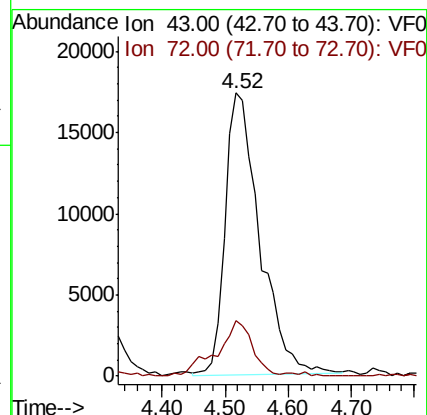
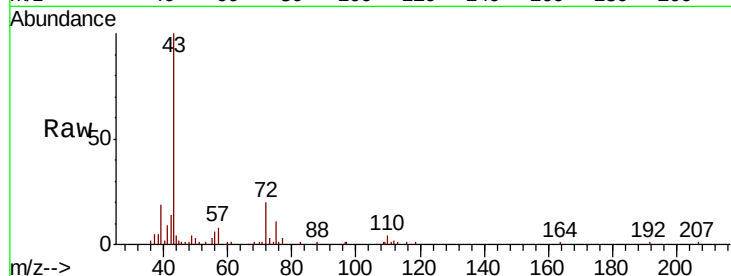
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 66436

Ion Ratio Lower Upper

43 100

72 19.6 13.9 20.9



#26

2,2-Dichloropropane

Concen: 19.92 ug/l

RT: 3.77 min Scan# 328

Delta R.T. -0.00 min

Lab File: VF059908.D

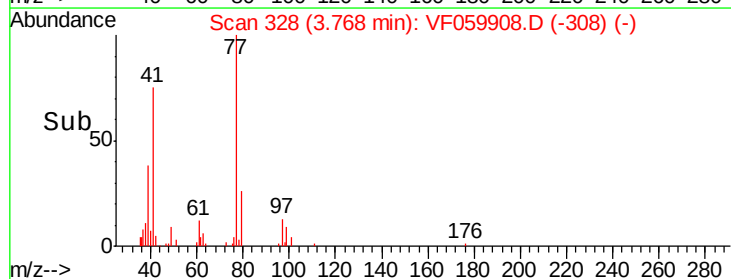
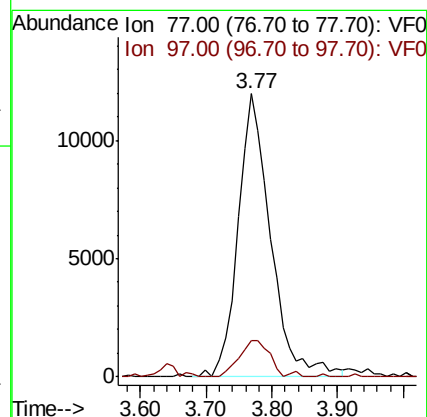
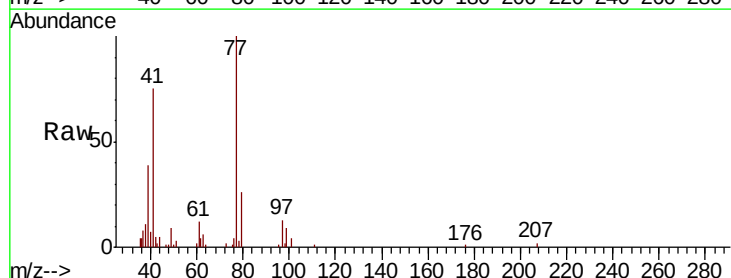
Acq: 7 Aug 2018 8:03

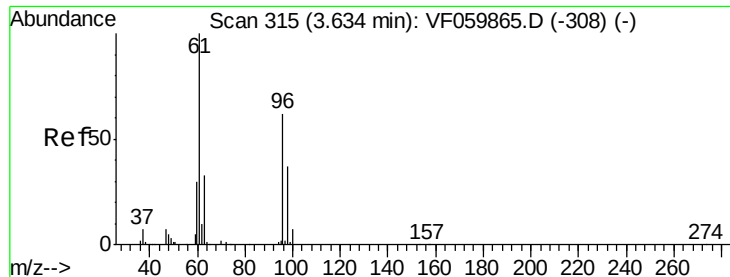
Tgt Ion: 77 Resp: 41534

Ion Ratio Lower Upper

77 100

97 13.0 6.8 20.3



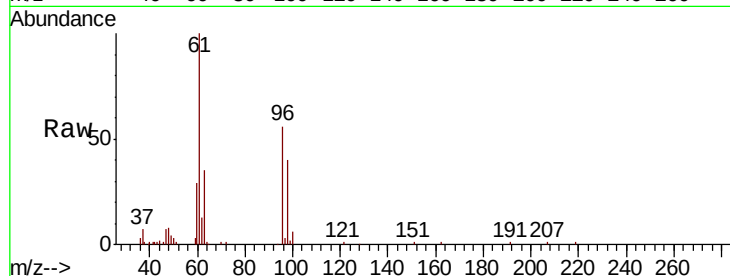


#27

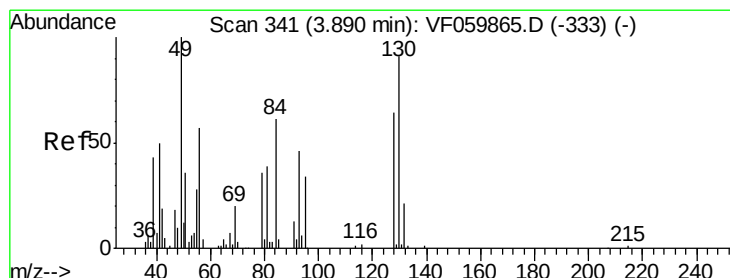
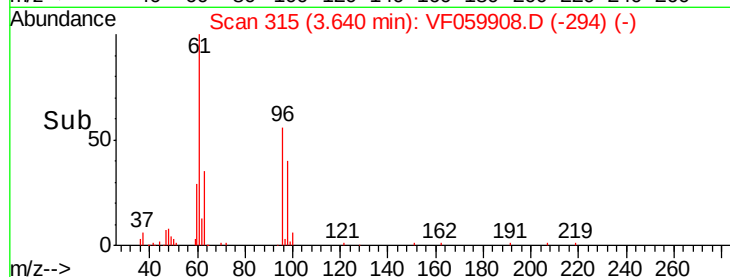
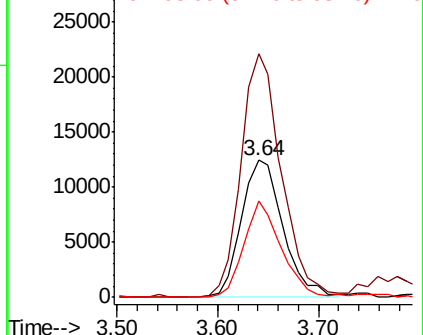
cis-1,2-Dichloroethene
Concen: 20.87 ug/l
RT: 3.64 min Scan# 315
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 96 Resp: 35741
Ion Ratio Lower Upper
96 100
61 178.0 0.0 320.8
98 70.6 0.0 117.6



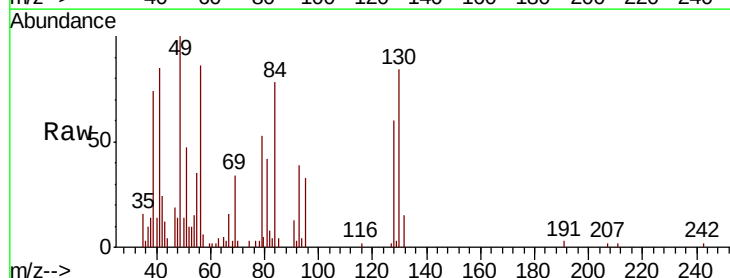
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



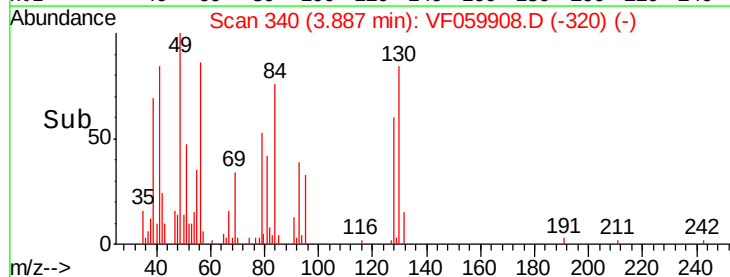
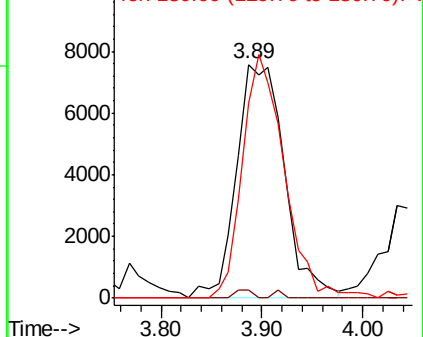
#28

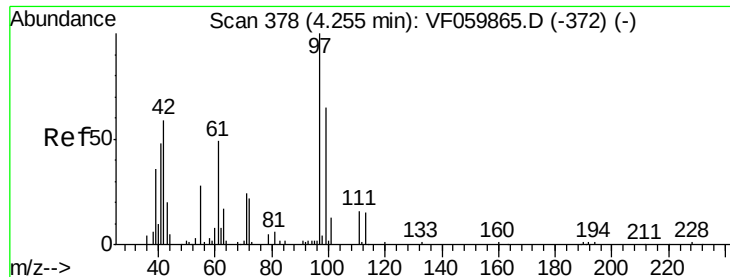
Bromochloromethane
Concen: 19.77 ug/l
RT: 3.89 min Scan# 340
Delta R.T. -0.00 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion: 49 Resp: 25011
Ion Ratio Lower Upper
49 100
129 3.3 0.0 4.6
130 83.8 73.8 110.8



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 110.98 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampled :

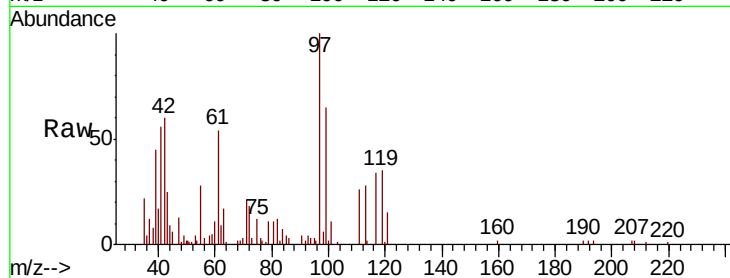
Tot Ion: 42 Resp: 25384

Ion Ratio Lower Upper

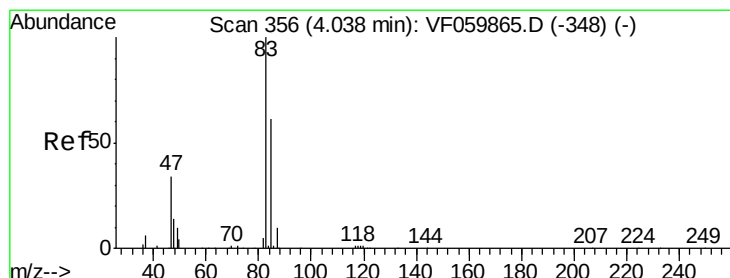
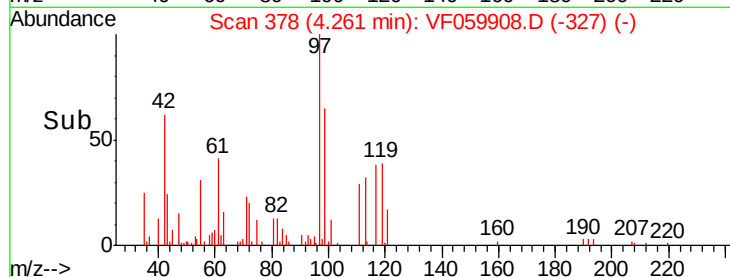
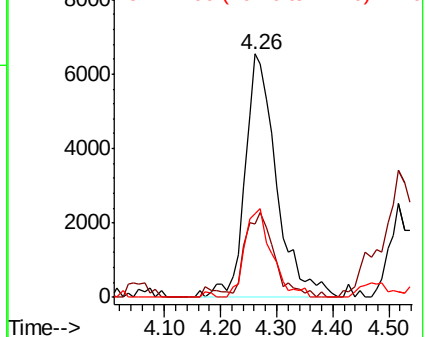
42 100

72 32.9 29.3 43.9

71 31.4 30.0 45.0



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: 21.58 ug/l

RT: 4.04 min Scan# 356

Delta R.T. 0.01 min

Lab File: VF059908.D

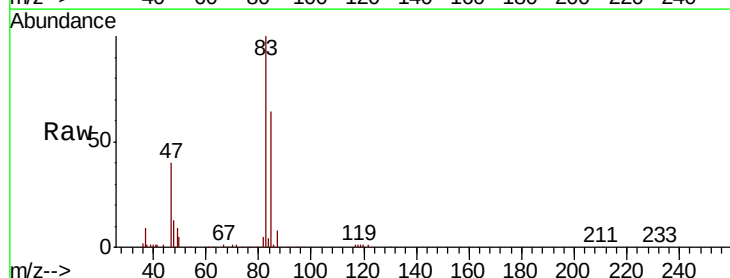
Acq: 7 Aug 2018 8:03

Tgt Ion: 83 Resp: 104587

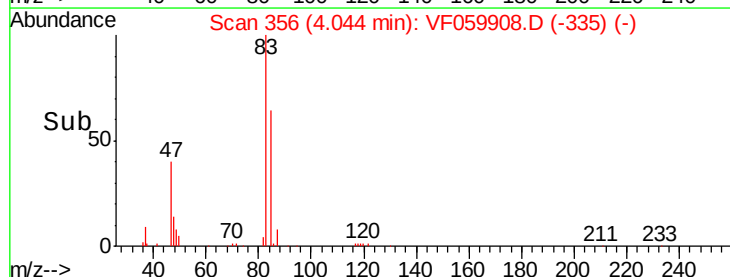
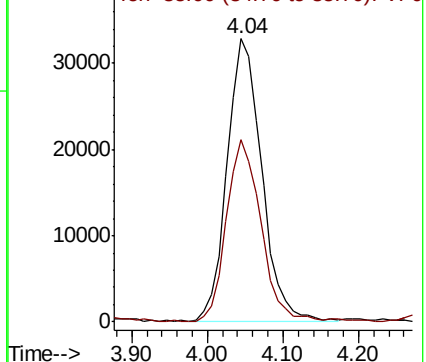
Ion Ratio Lower Upper

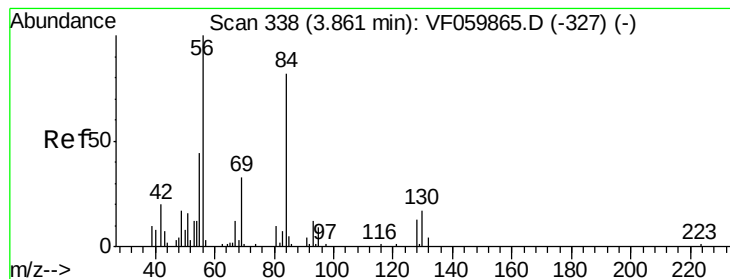
83 100

85 65.6 49.3 73.9



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





#31

Cyclohexane

Concen: 19.15 ug/l

RT: 3.88 min Scan# 339

Delta R.T. 0.02 min

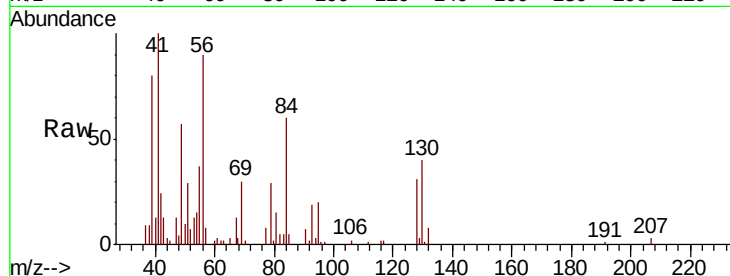
Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 33946

Ion	Ratio	Lower	Upper
56	100		
69	33.6	26.7	40.1
84	66.8	65.9	98.9

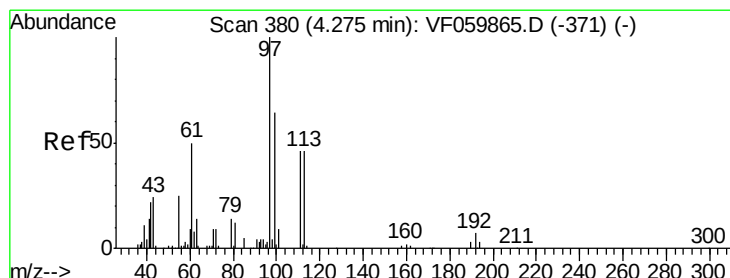
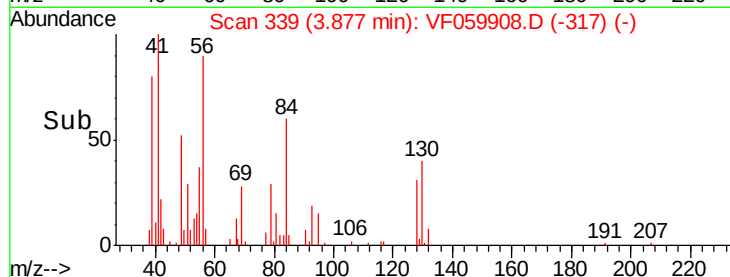
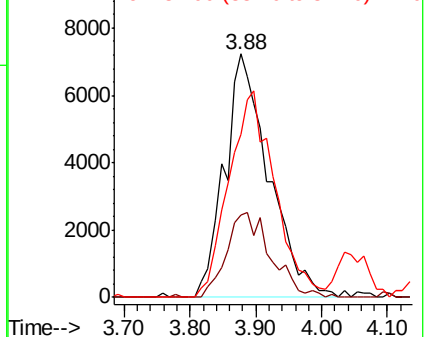


Abundance

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: 21.06 ug/l

RT: 4.29 min Scan# 381

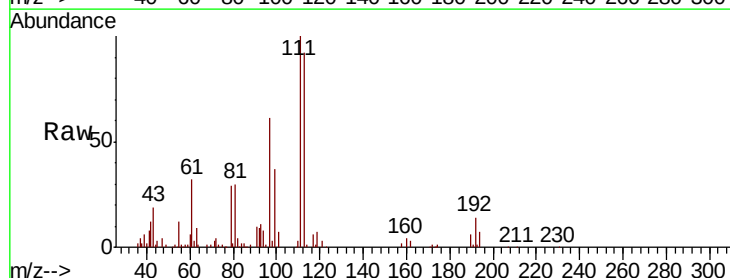
Delta R.T. 0.02 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Tgt Ion: 97 Resp: 81662

Ion	Ratio	Lower	Upper
97	100		
99	60.7	51.4	77.2
61	53.3	40.8	61.2

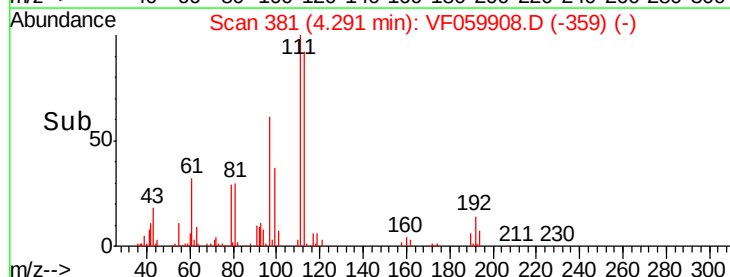
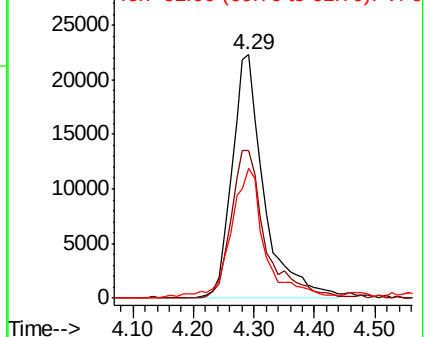


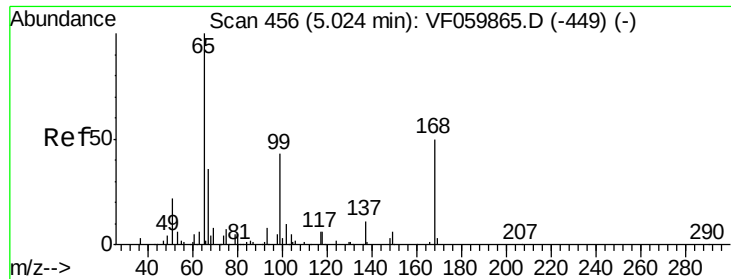
Abundance

Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

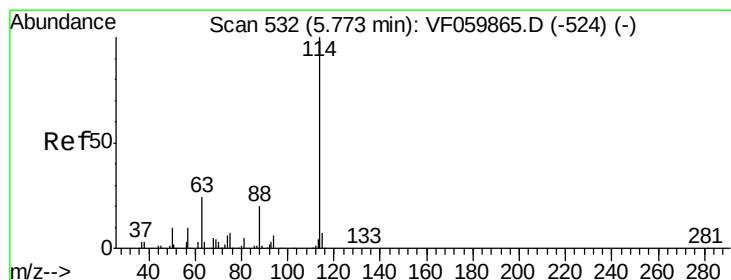
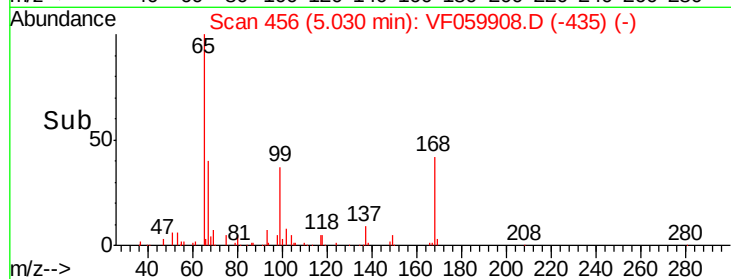
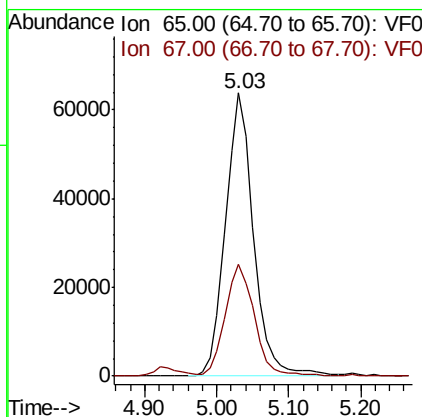
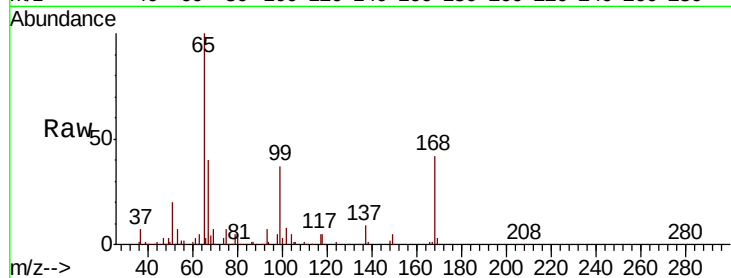




#33
 1,2-Dichloroethane-d4
 Concen: 55.83 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

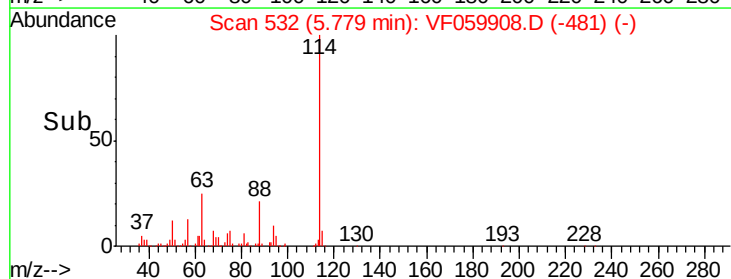
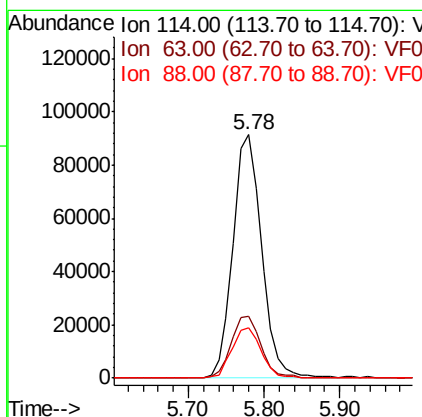
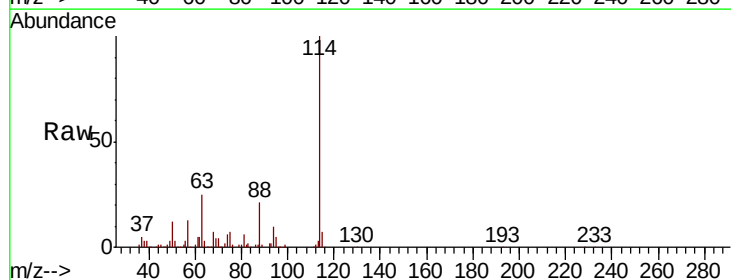
Instrument :
 MSVOA_F
 ClientSampleId :

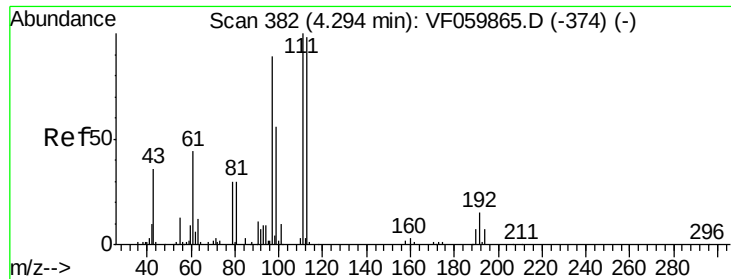
Tot Ion: 65 Resp: 172799
 Ion Ratio Lower Upper
 65 100
 67 39.5 0.0 77.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion: 114 Resp: 240465
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 48.0
 88 20.8 0.0 39.4





#35

Dibromofluoromethane

Concen: 53.49 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :
MSVOA_F
ClientSampled :

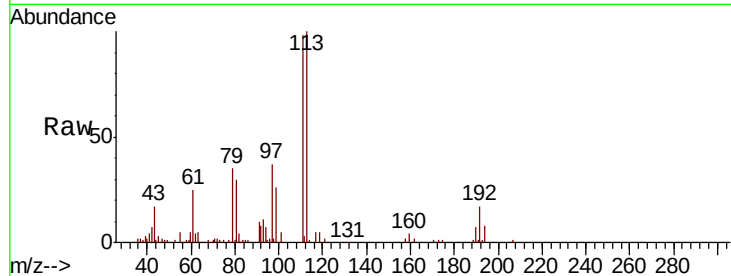
Tot Ion:113 Resp: 127976

Ion Ratio Lower Upper

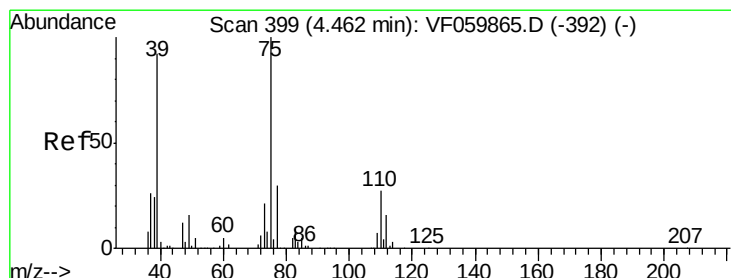
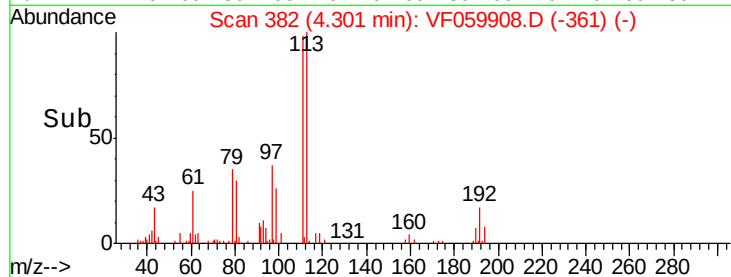
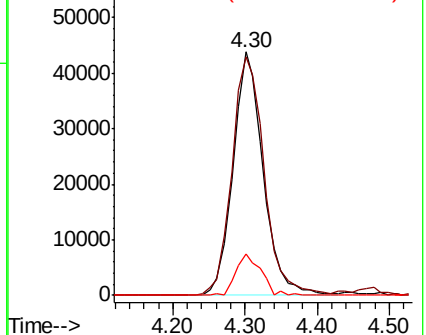
113 100

111 98.1 81.8 122.8

192 17.0 12.4 18.6



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: 20.69 ug/l

RT: 4.47 min Scan# 399

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

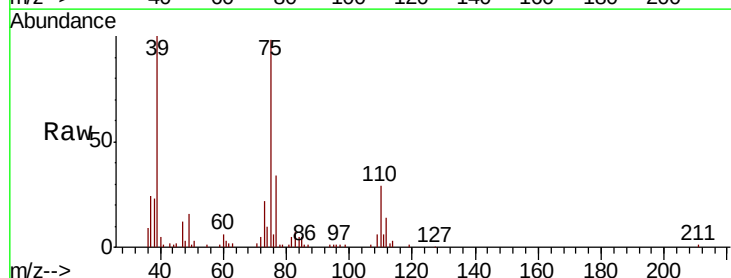
Tgt Ion: 75 Resp: 57559

Ion Ratio Lower Upper

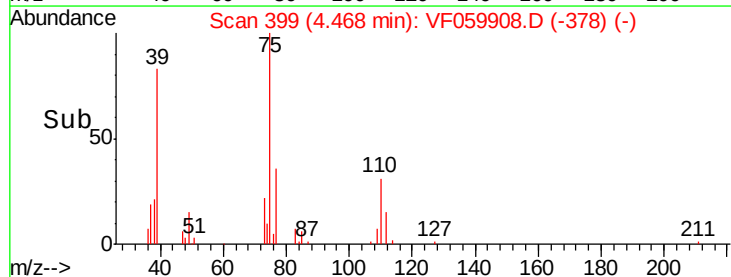
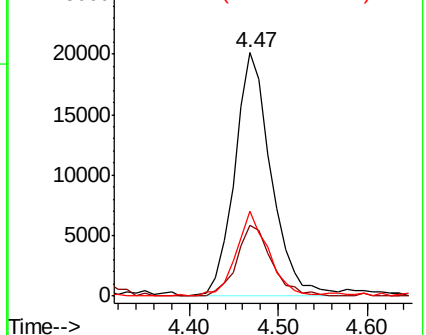
75 100

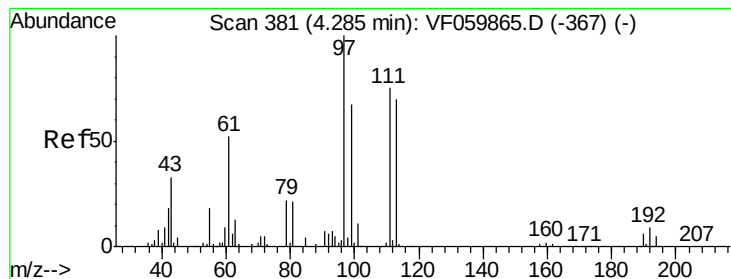
110 29.2 13.6 40.7

77 34.9 23.7 35.5



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: 23.69 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampleId :

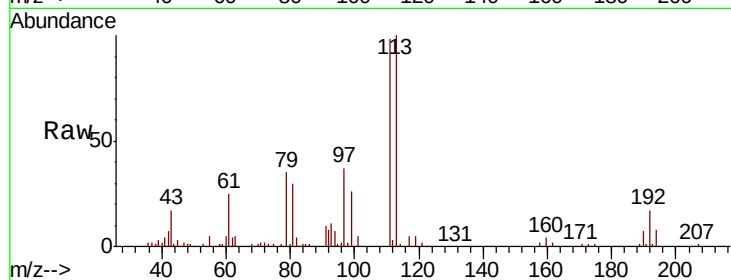
Tot Ion: 43 Resp: 28286

Ion Ratio Lower Upper

43 100

61 151.3 123.7 185.5

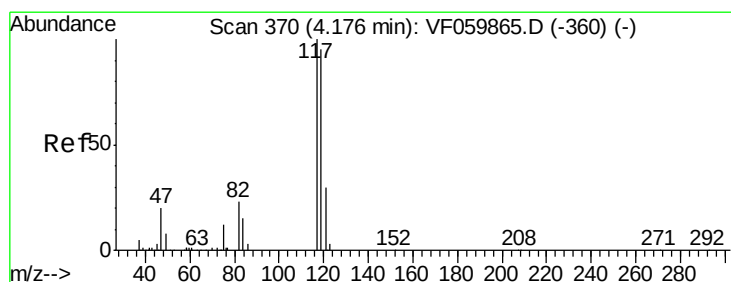
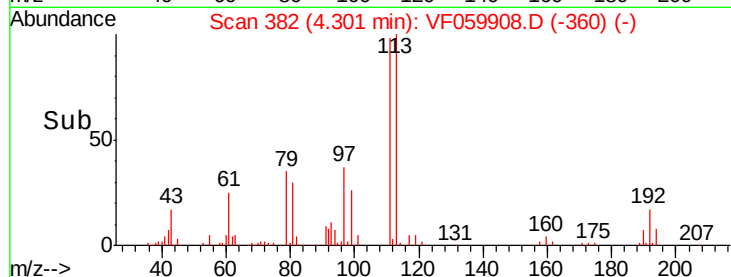
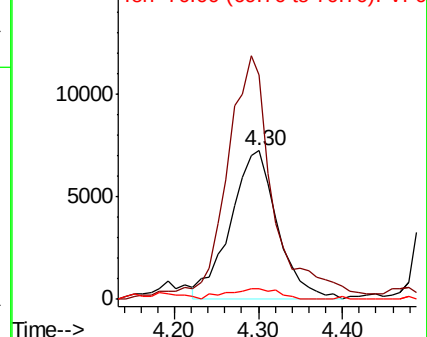
70 6.9 7.8 11.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 25.06 ug/l

RT: 4.18 min Scan# 370

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

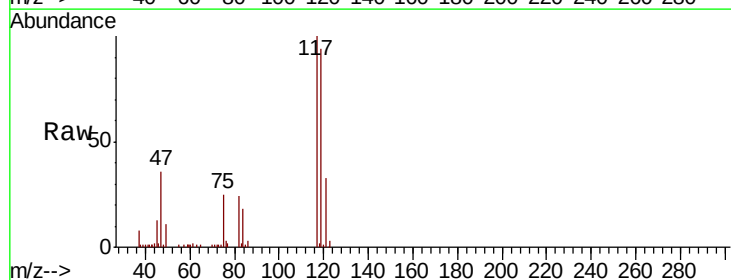
Tgt Ion: 117 Resp: 99797

Ion Ratio Lower Upper

117 100

119 94.0 76.5 114.7

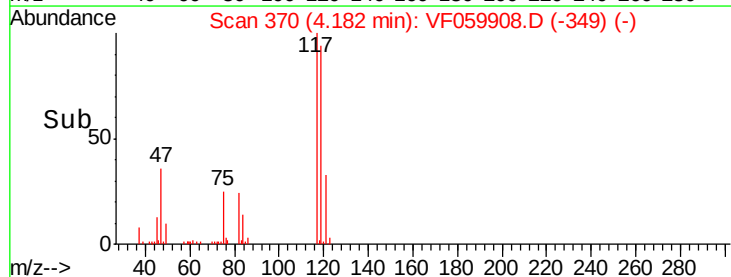
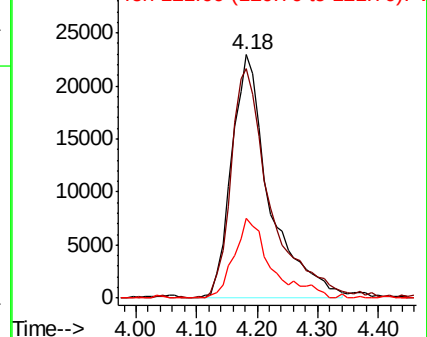
121 32.6 23.8 35.8

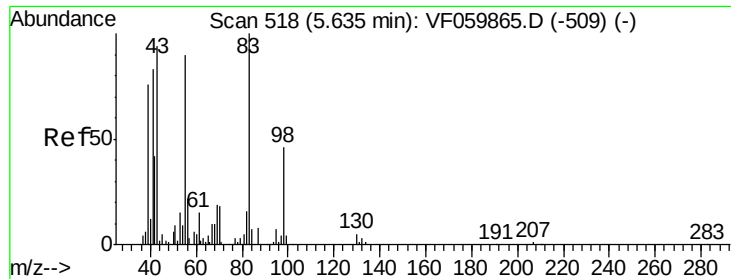


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

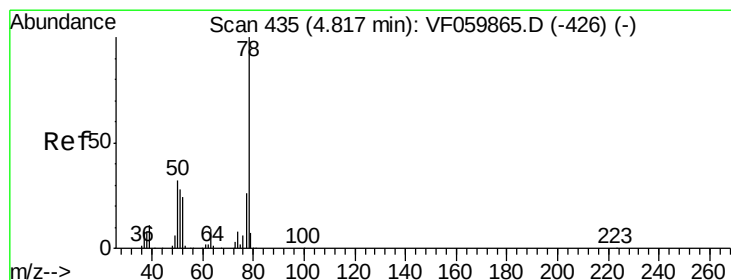
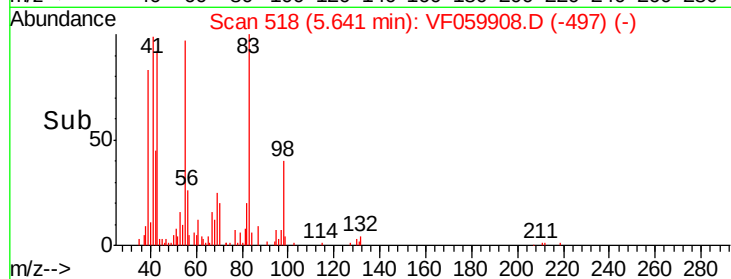
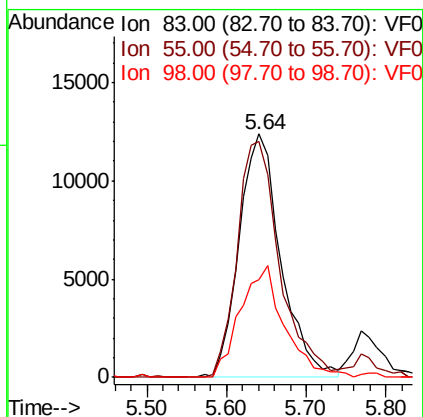
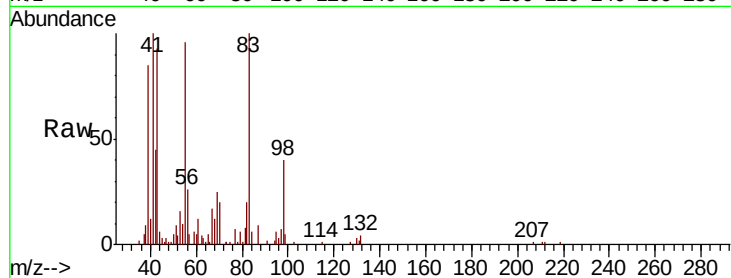




#39
Methylvlcyclohexane
Concen: 21.50 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

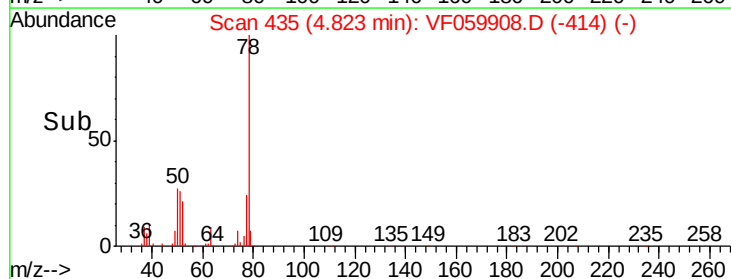
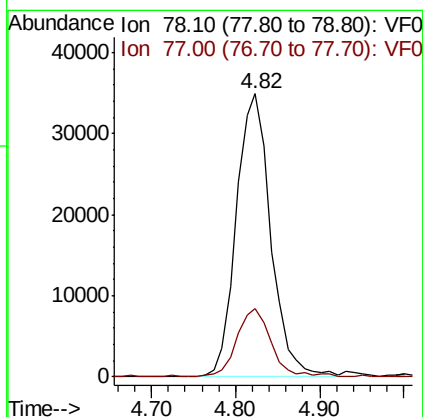
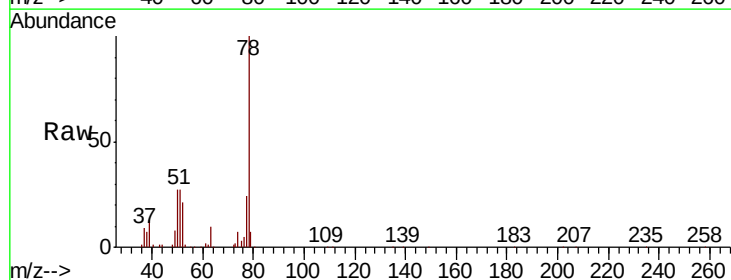
Instrument :
MSVOA_F
ClientSampleId :

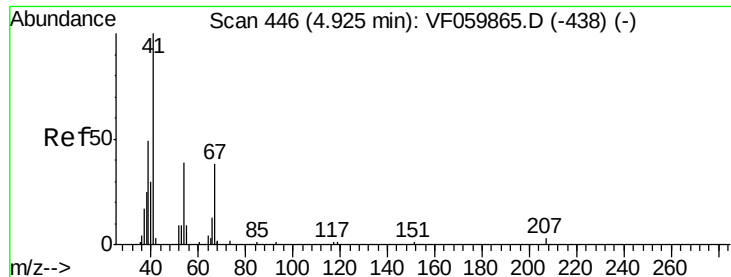
Tot Ion: 83 Resp: 44842
Ion Ratio Lower Upper
83 100
55 96.7 72.0 108.0
98 40.3 36.6 54.8



#40
Benzene
Concen: 19.03 ug/l
RT: 4.82 min Scan# 435
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion: 78 Resp: 99869
Ion Ratio Lower Upper
78 100
77 24.2 20.7 31.1

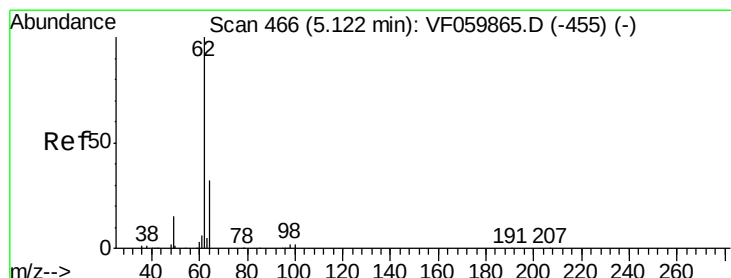
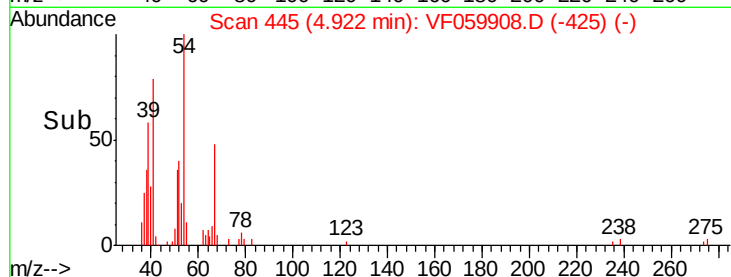
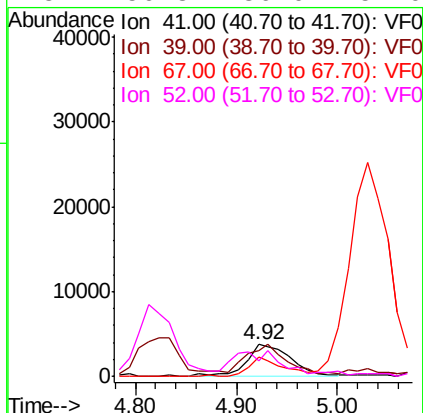
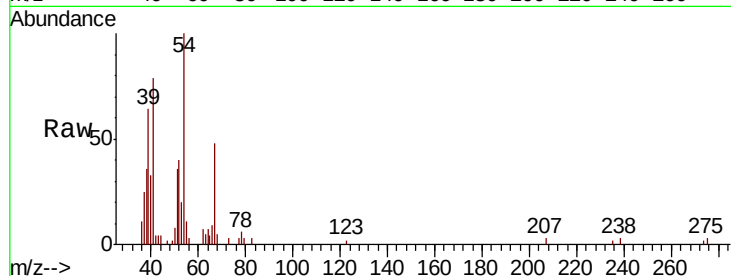




#41
Methacrylonitrile
Concen: 18.08 ug/l
RT: 4.92 min Scan# 445
Delta R.T. -0.00 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

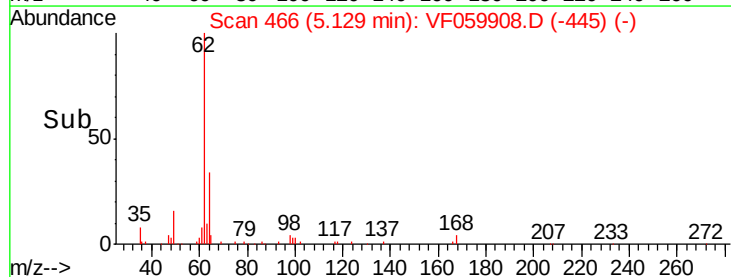
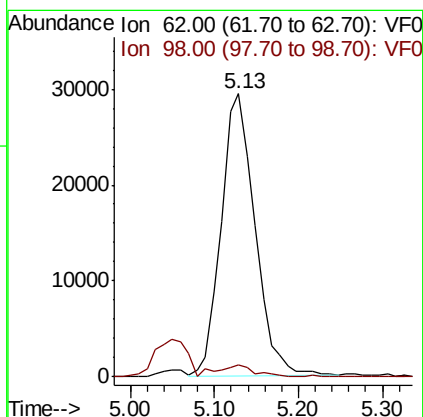
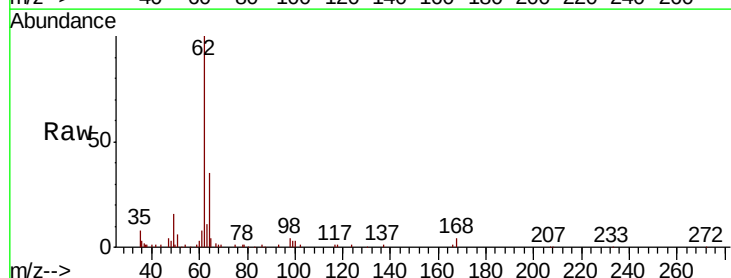
Instrument :
MSVOA_F
ClientSampleId :

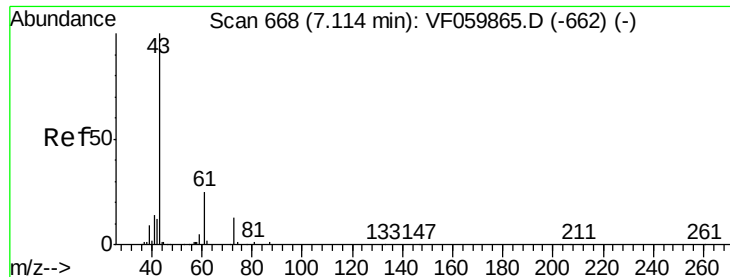
Tot Ion:	41	Resp:	11396
Ion	Ratio	Lower	Upper
41	100		
39	80.9	55.1	82.7
67	60.4	30.3	45.5
52	50.8	36.0	54.0



#42
1,2-Dichloroethane
Concen: 21.41 ug/l
RT: 5.13 min Scan# 466
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion:	62	Resp:	82473
Ion	Ratio	Lower	Upper
62	100		
98	4.1	0.0	7.6



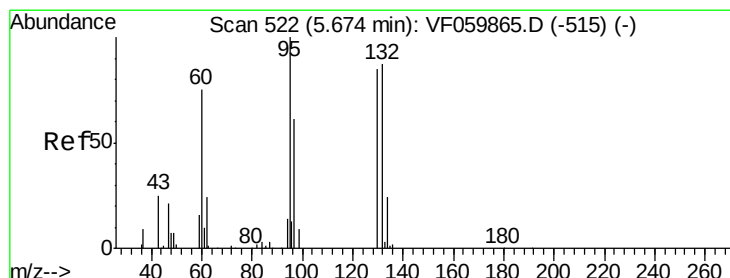
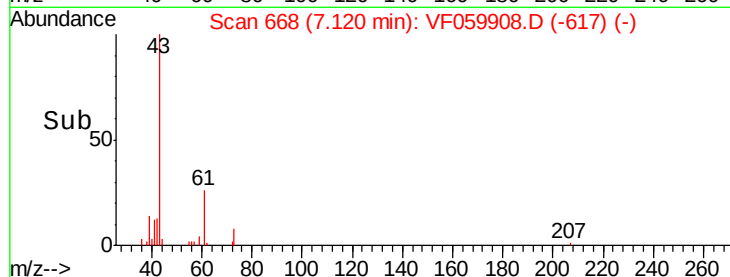
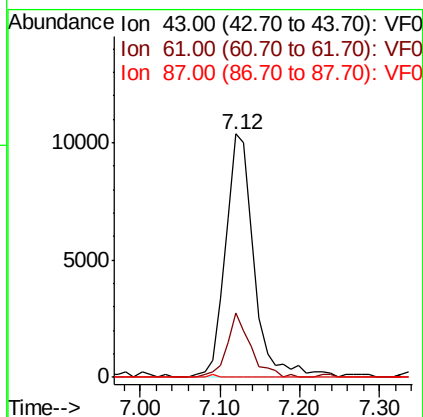
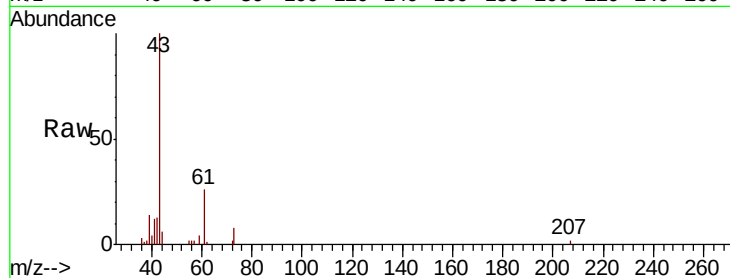


#43

Isopropyl Acetate
 Concen: 21.18 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Instrument :
 MSVOA_F
 ClientSampleId :

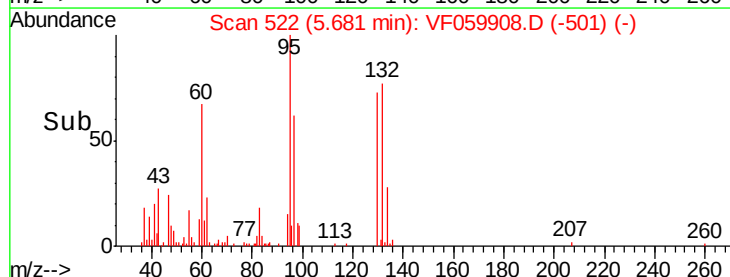
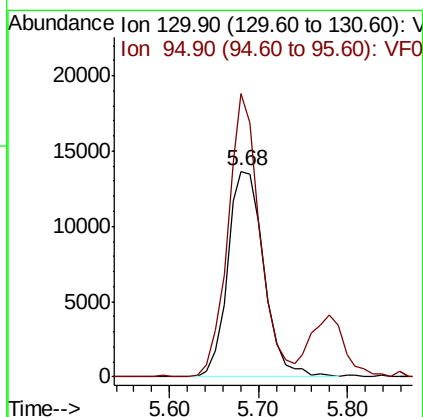
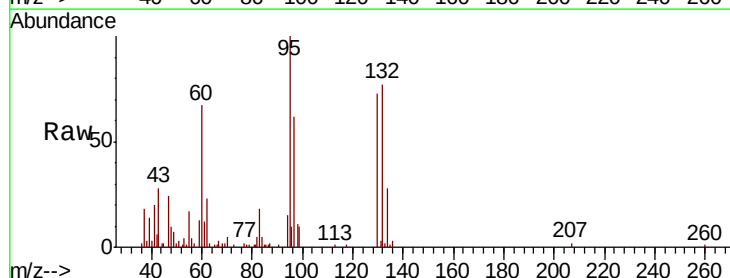
Tot Ion	Ratio	Lower	Upper
43	100		
61	26.3	20.3	30.5
87	0.0	0.7	1.1#

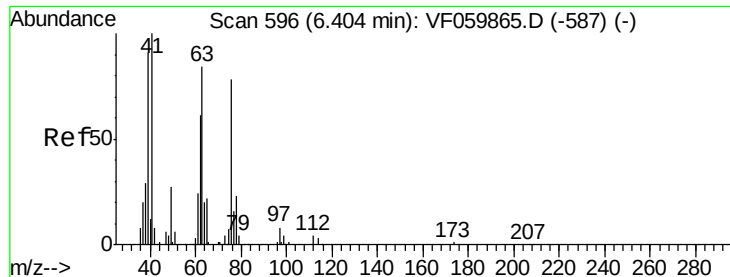


#44

Trichloroethene
 Concen: 20.93 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion	Ratio	Lower	Upper
130	100		
95	137.5	0.0	236.8

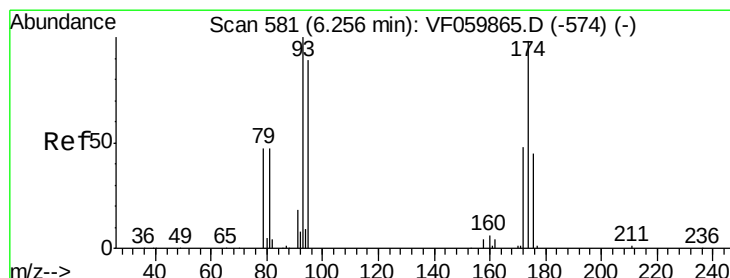
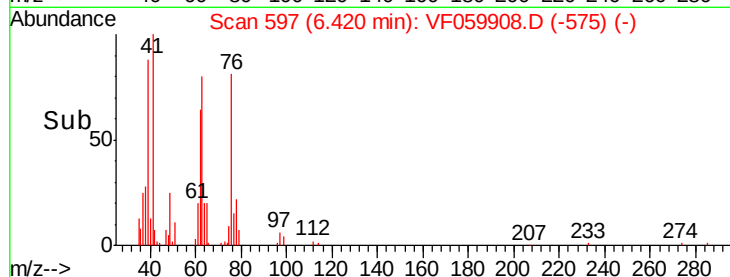
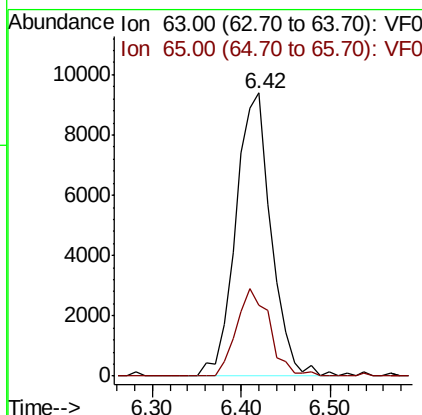
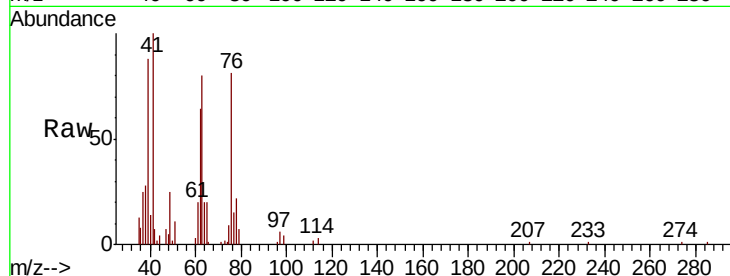




#45
 1,2-Dichloropropane
 Concen: 20.25 ug/l
 RT: 6.42 min Scan# 597
 Delta R.T. 0.02 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

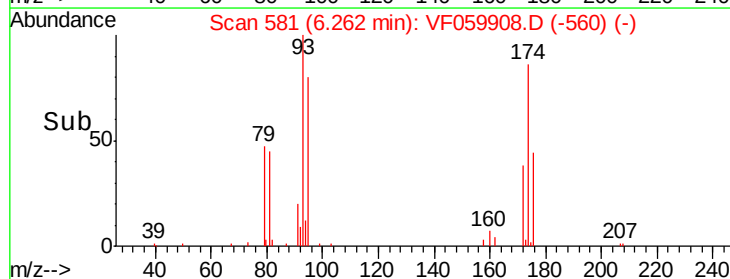
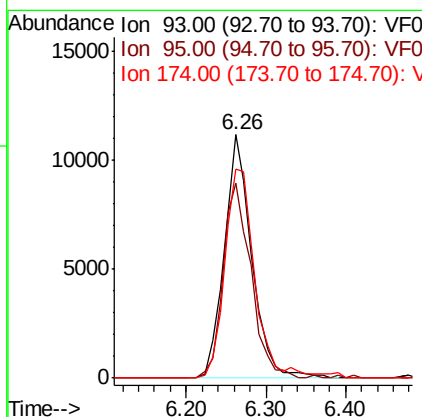
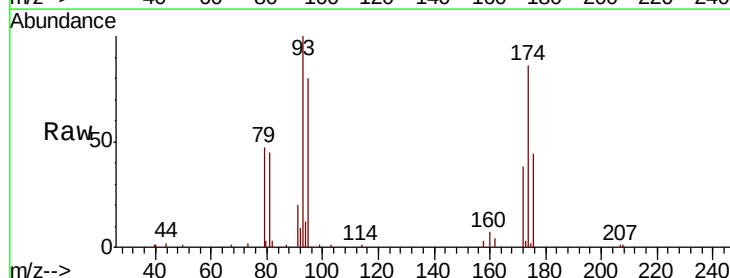
Instrument :
 MSVOA_F
 ClientSampleId :

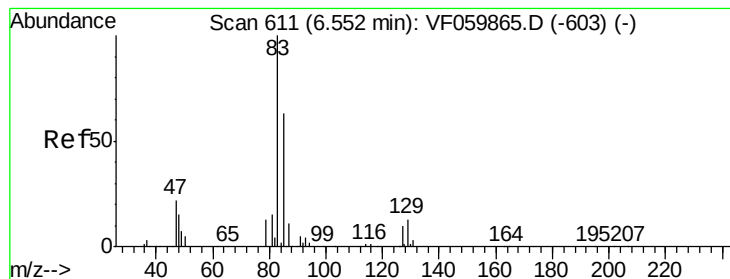
Tot Ion: 63 Resp: 25847
 Ion Ratio Lower Upper
 63 100
 65 25.1 20.4 30.6



#46
 Dibromomethane
 Concen: 21.00 ug/l
 RT: 6.26 min Scan# 581
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion: 93 Resp: 27051
 Ion Ratio Lower Upper
 93 100
 95 80.3 71.4 107.2
 174 88.0 78.1 117.1





#47

Bromodichloromethane

Concen: 22.39 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :
MSVOA_F
ClientSampleId :

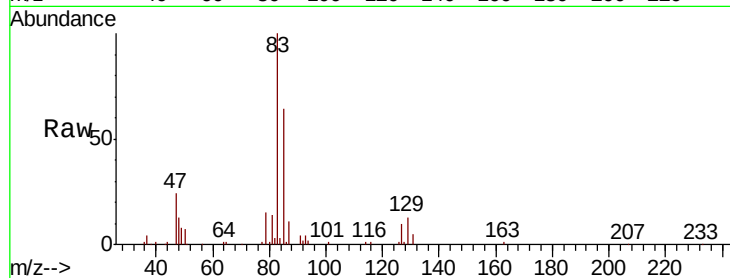
Tot Ion: 83 Resp: 78870

Ion Ratio Lower Upper

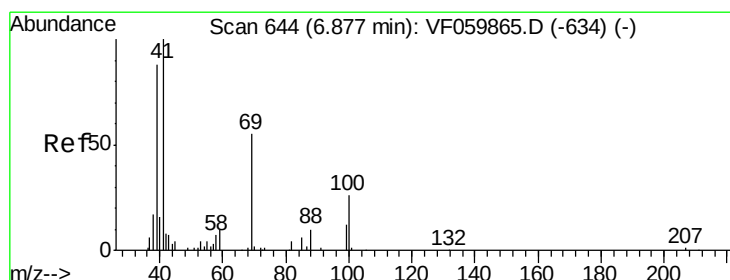
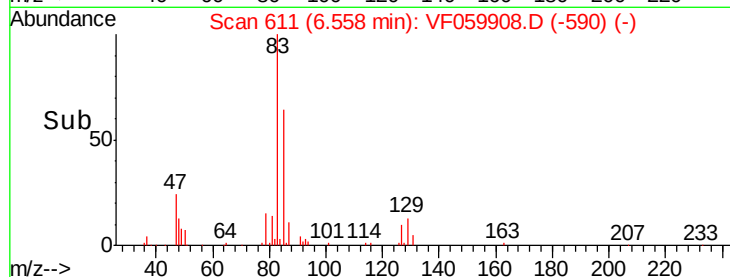
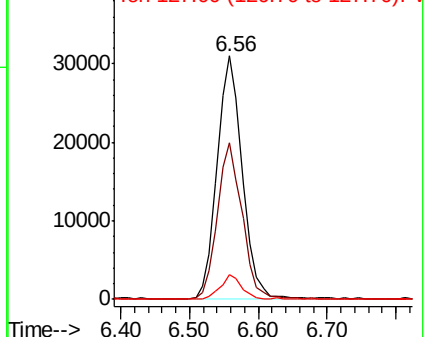
83 100

85 64.5 50.7 76.1

127 11.0 8.0 12.0



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



#48

Methyl methacrylate

Concen: 21.44 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

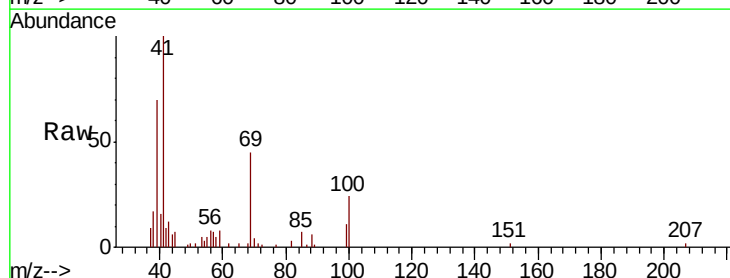
Tgt Ion: 41 Resp: 20512

Ion Ratio Lower Upper

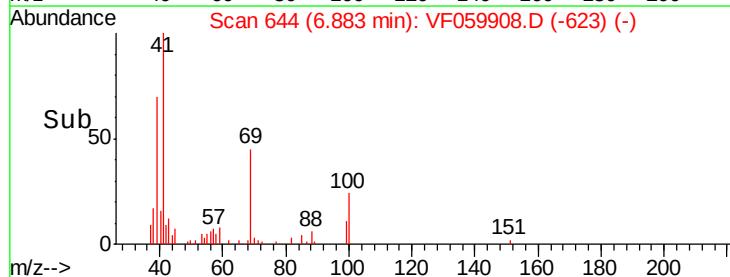
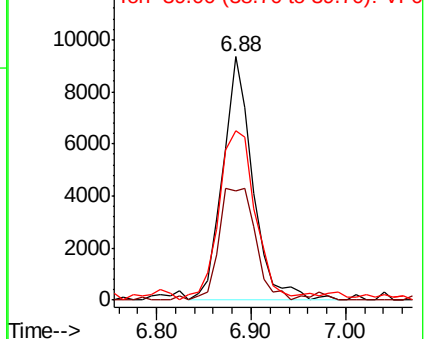
41 100

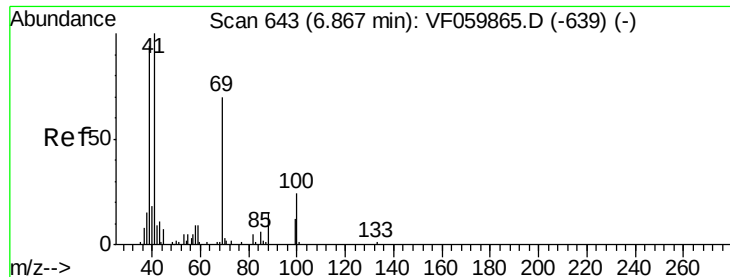
69 45.0 44.4 66.6

39 69.6 70.6 106.0#



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

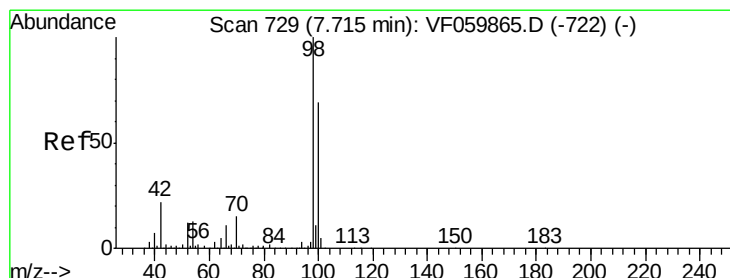
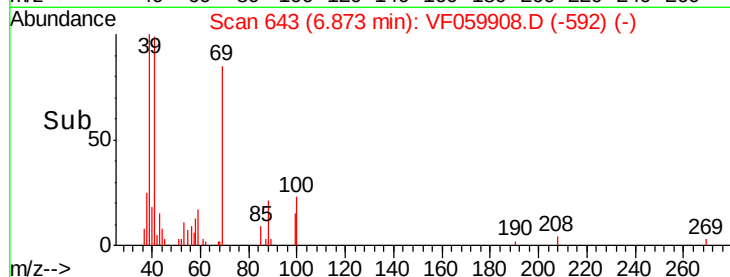
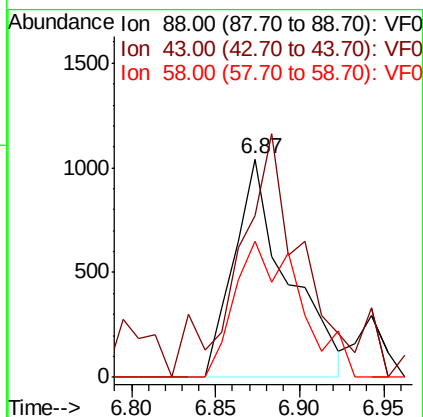
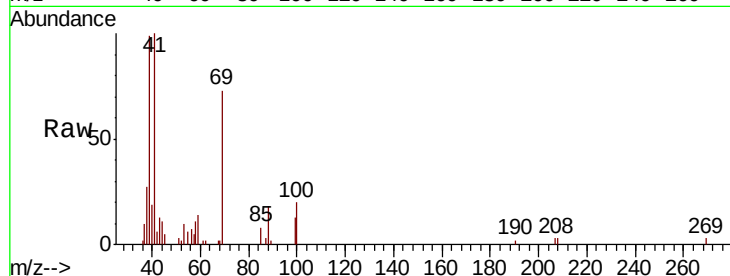




#49
1,4-Dioxane
Concen: 386.68 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

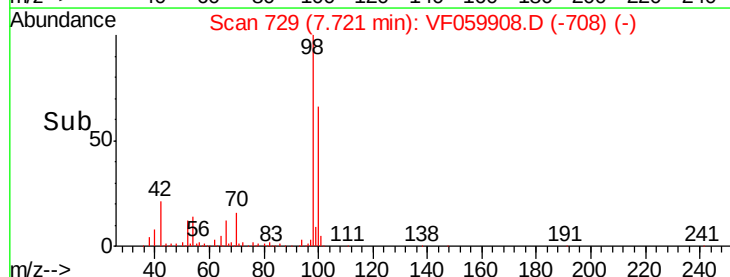
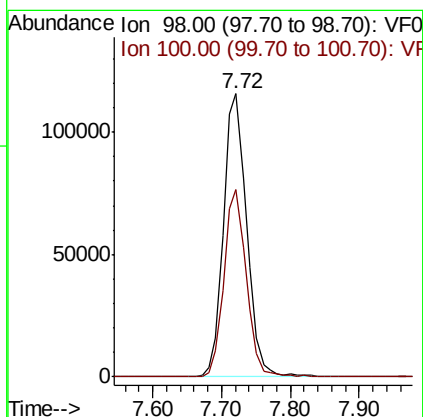
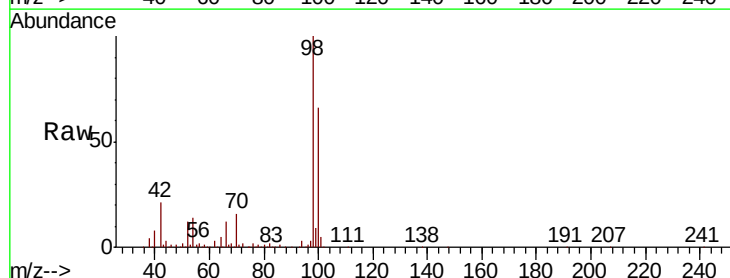
Instrument :
MSVOA_F
ClientSampleId :

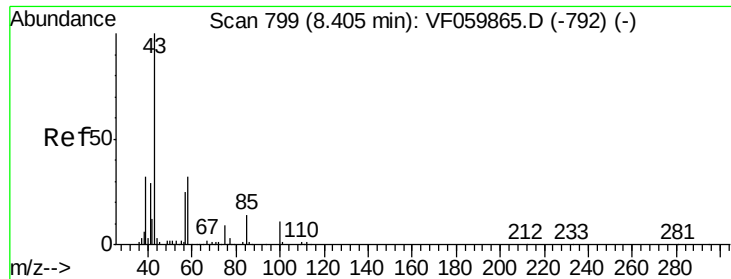
Tot Ion: 88 Resp: 2289
Ion Ratio Lower Upper
88 100
43 74.0 58.3 87.5
58 62.4 49.4 74.2



#50
Toluene-d8
Concen: 53.17 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion: 98 Resp: 270671
Ion Ratio Lower Upper
98 100
100 66.3 55.0 82.6





#51

4-Methyl-2-Pentanone

Concen: 113.69 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

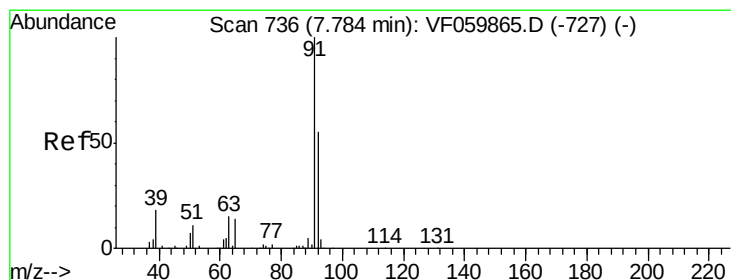
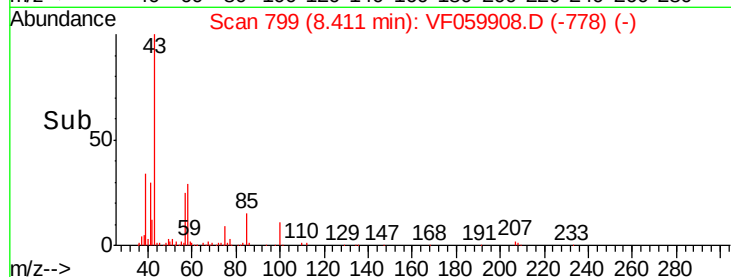
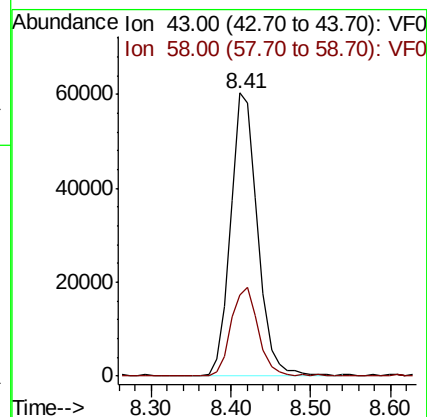
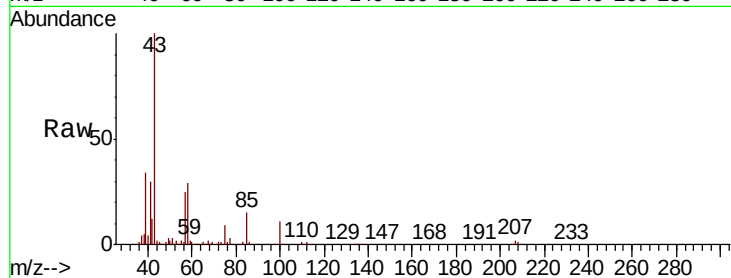
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 142942

Ion Ratio Lower Upper

43 100

58 28.8 25.4 38.0



#52

Toluene

Concen: 21.30 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF059908.D

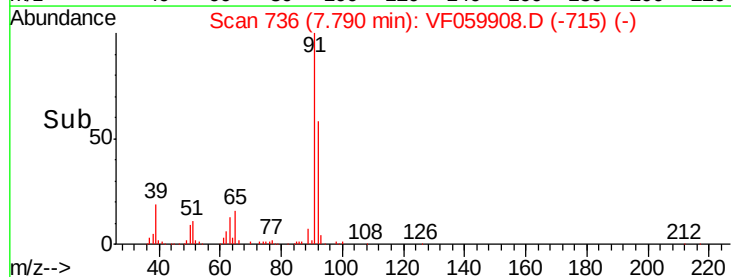
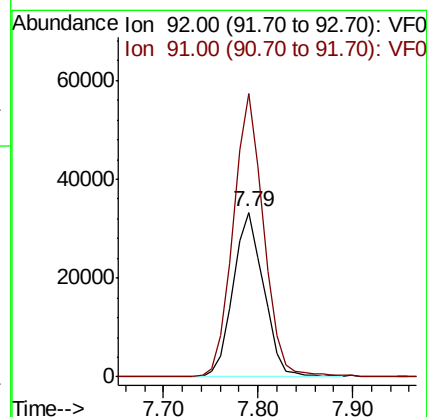
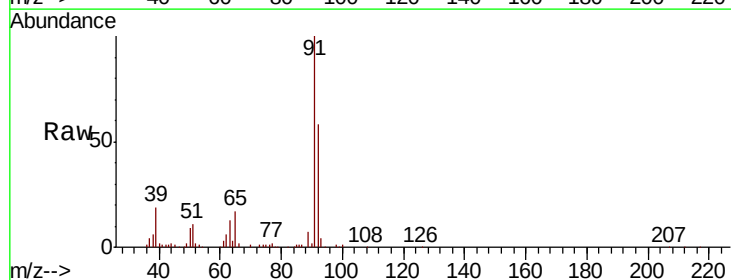
Acq: 7 Aug 2018 8:03

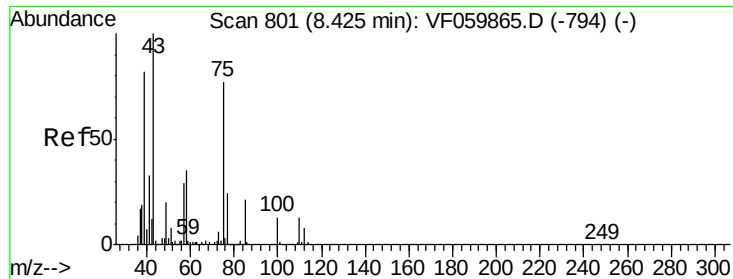
Tgt Ion: 92 Resp: 74828

Ion Ratio Lower Upper

92 100

91 171.8 145.7 218.5





#53

t-1,3-Dichloropropene

Concen: 22.33 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.02 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

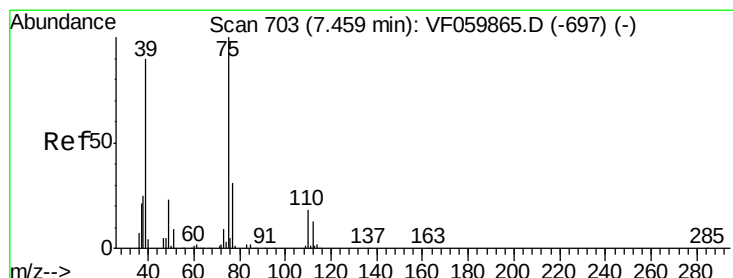
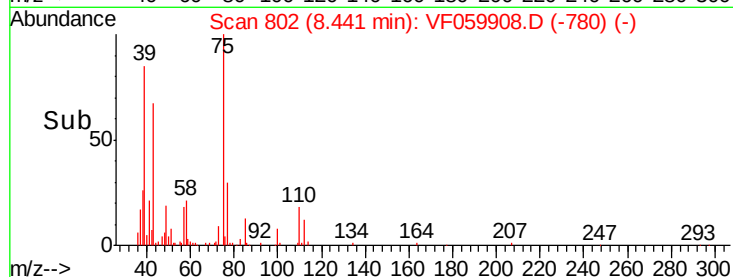
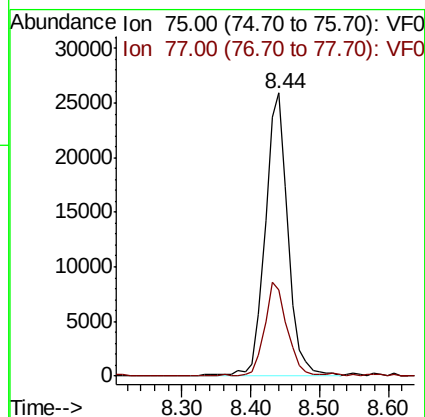
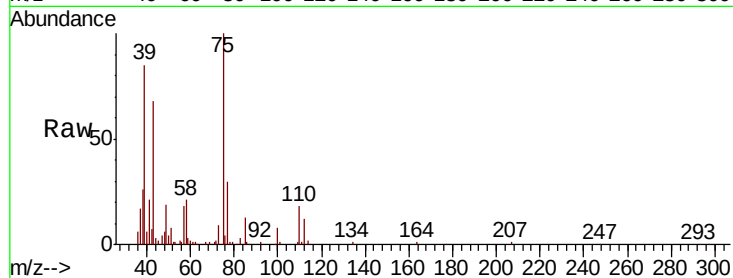
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 75 Resp: 59829

Ion Ratio Lower Upper

75 100

77 30.5 24.5 36.7



#54

cis-1,3-Dichloropropene

Concen: 20.58 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

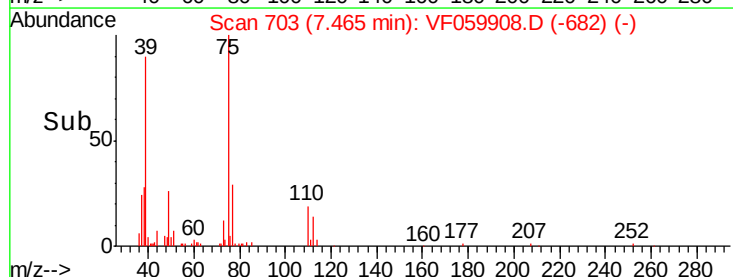
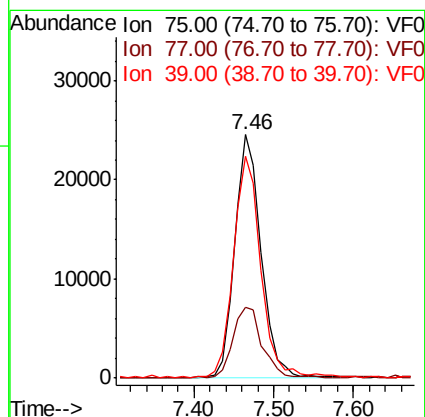
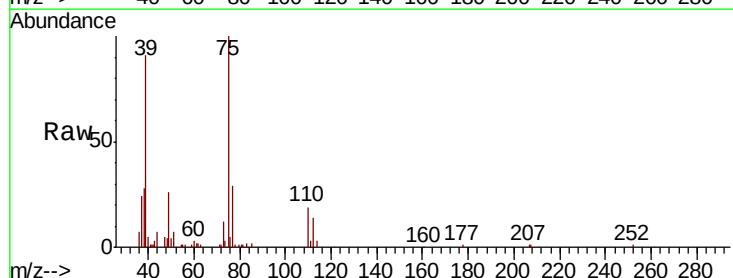
Tgt Ion: 75 Resp: 56902

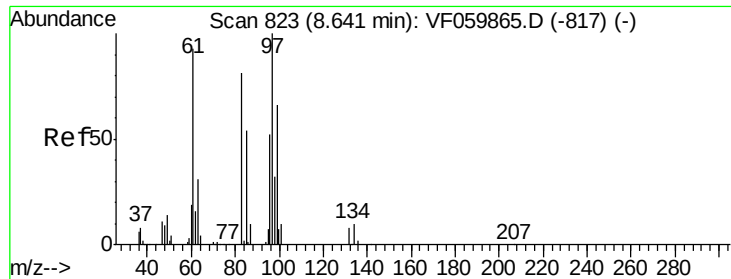
Ion Ratio Lower Upper

75 100

77 29.0 24.7 37.1

39 91.2 72.0 108.0





#55

1,1,2-Trichloroethane

Concen: 21.26 ug/l

RT: 8.65 min Scan# 823

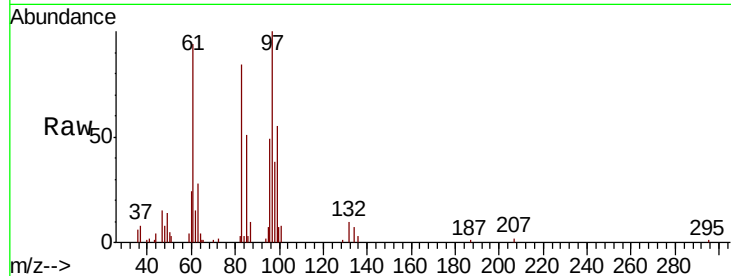
Delta R.T. 0.01 min

Lab File: VF059908.D

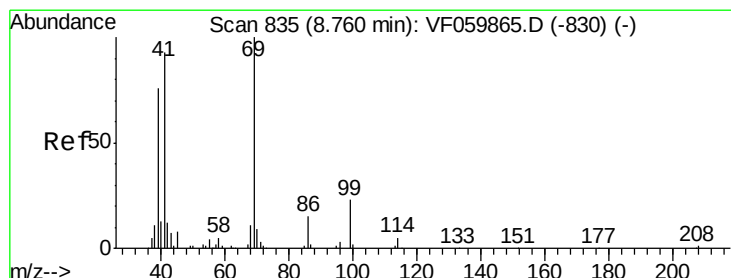
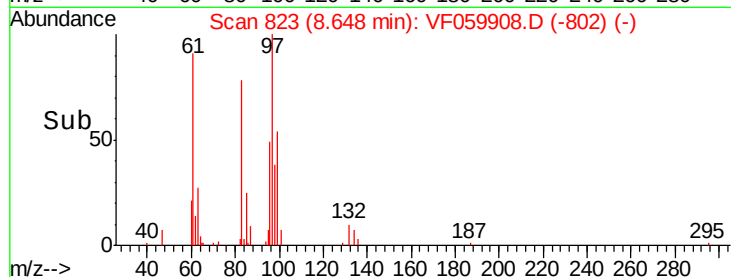
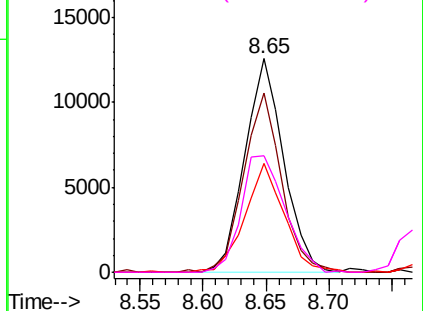
Acq: 7 Aug 2018 8:03

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	97	Resp:	26887
Ion	Ratio	Lower	Upper
97	100		
83	83.8	64.4	96.6
85	51.1	43.1	64.7
99	54.5	52.7	79.1



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: 19.83 ug/l

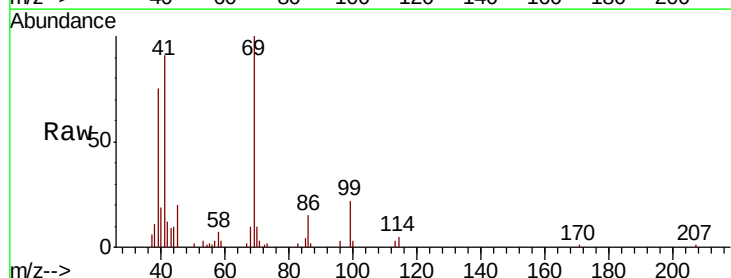
RT: 8.77 min Scan# 835

Delta R.T. 0.01 min

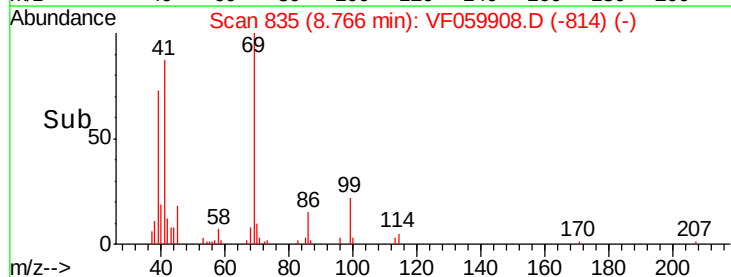
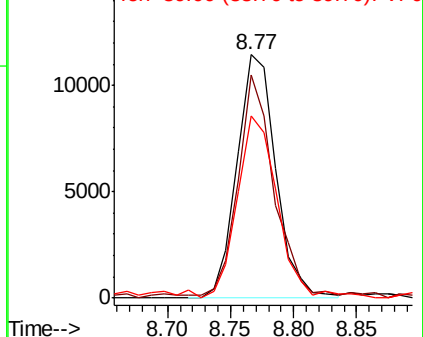
Lab File: VF059908.D

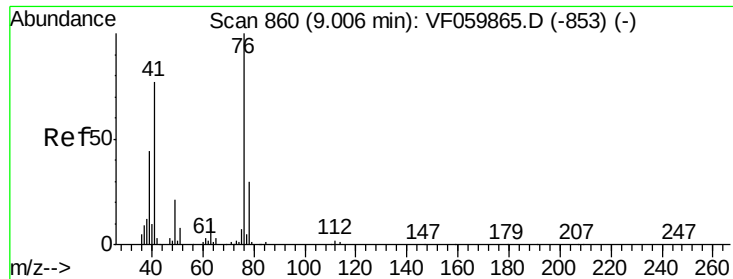
Acq: 7 Aug 2018 8:03

Tgt Ion:	69	Resp:	24488
Ion	Ratio	Lower	Upper
69	100		
41	91.5	74.7	112.1
39	75.0	61.1	91.7



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: 21.63 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

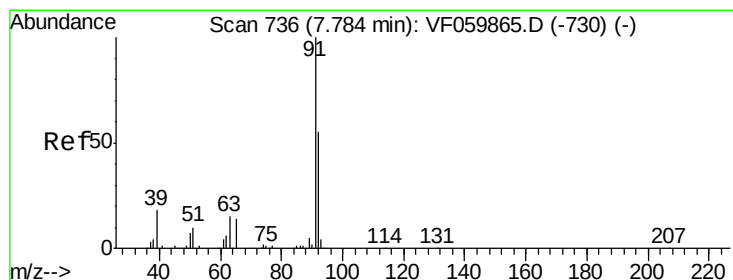
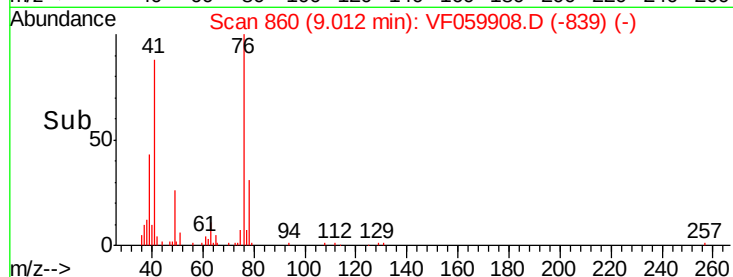
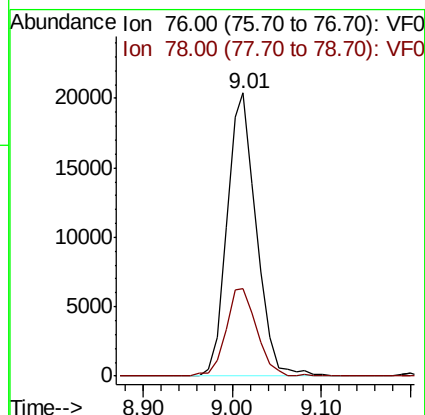
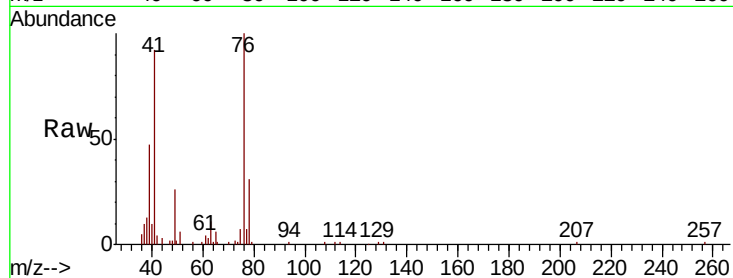
ClientSampleId :

Tot Ion: 76 Resp: 46968

Ion Ratio Lower Upper

76 100

78 31.1 24.2 36.2



#58

2-Chloroethyl Vinyl ether

Concen: 114.12 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF059908.D

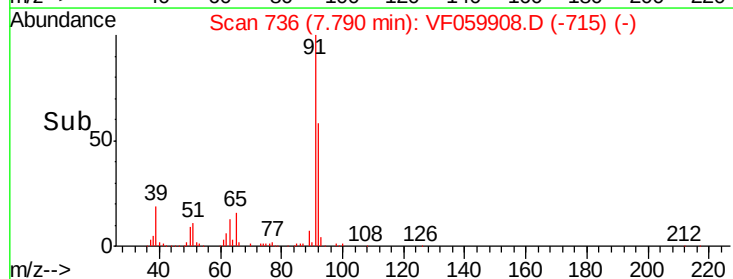
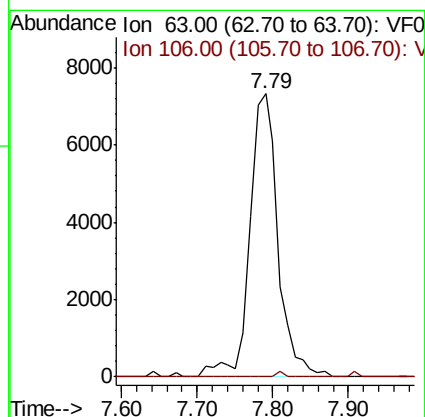
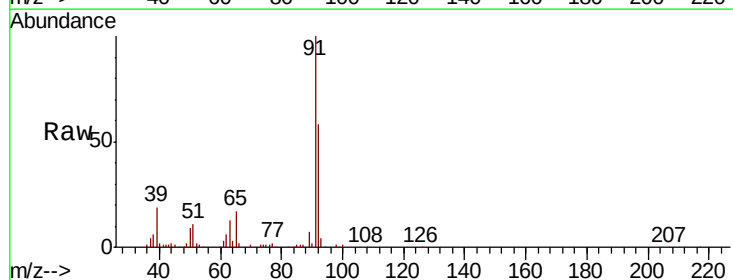
Acq: 7 Aug 2018 8:03

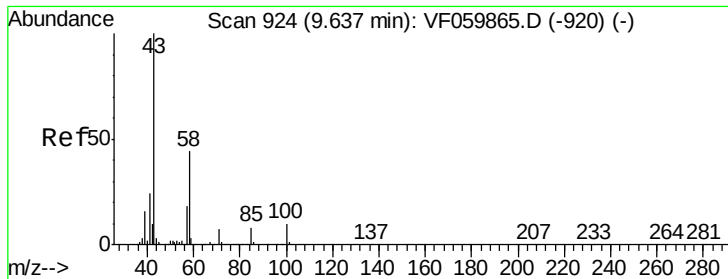
Tgt Ion: 63 Resp: 19093

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

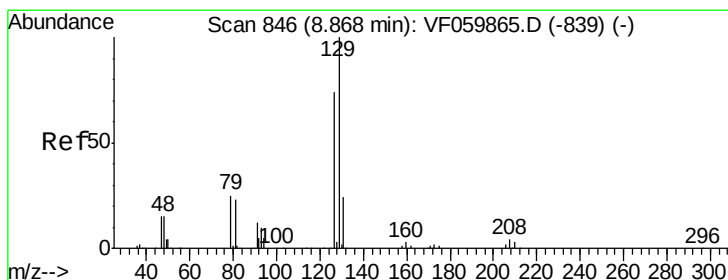
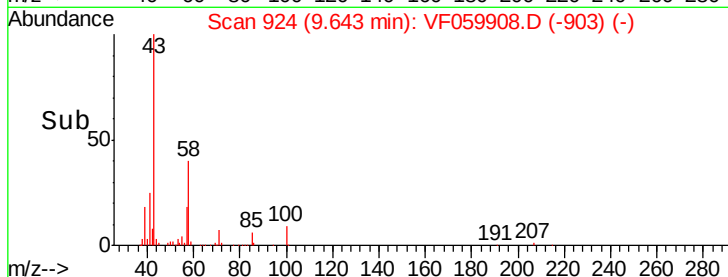
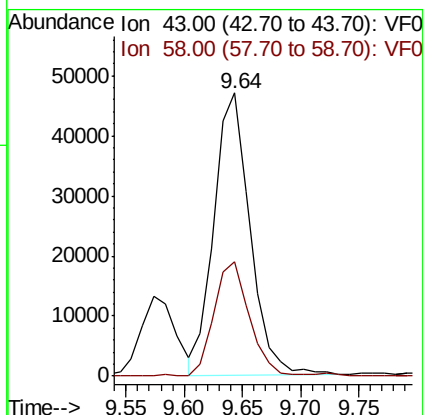
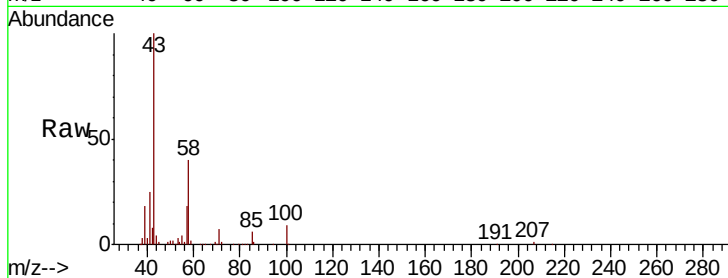




#59
2-Hexanone
Concen: 113.54 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

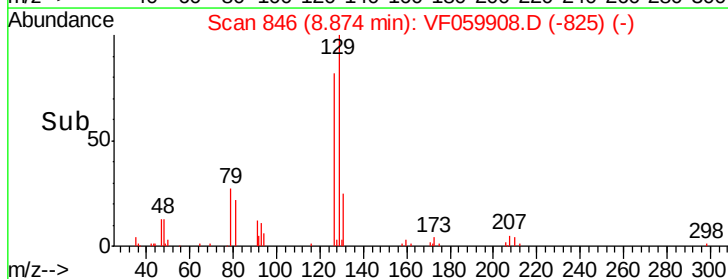
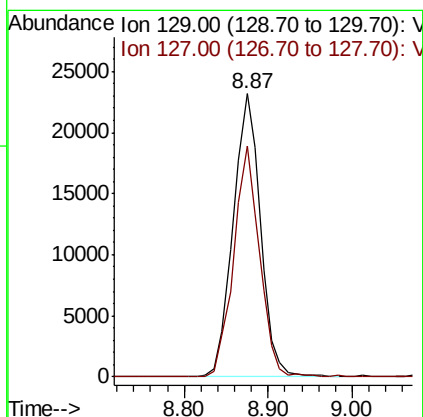
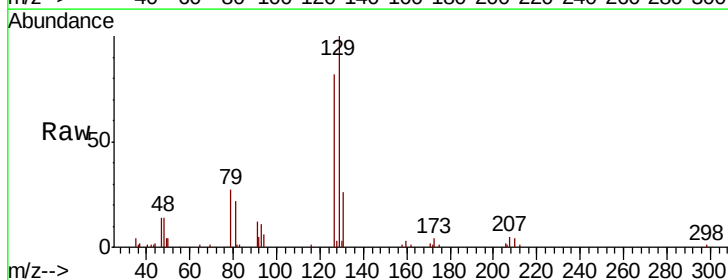
Instrument :
MSVOA_F
ClientSampleId :

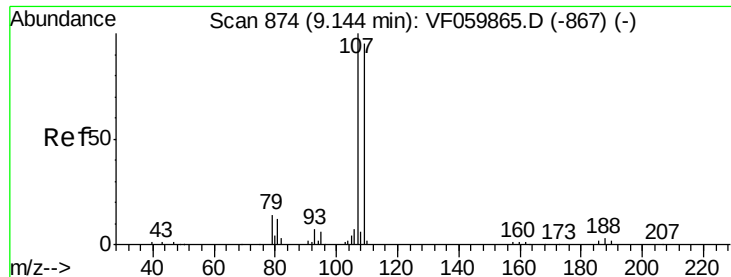
Tot Ion: 43 Resp: 100839
Ion Ratio Lower Upper
43 100
58 40.3 20.8 62.2



#60
Dibromochloromethane
Concen: 22.12 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion: 129 Resp: 52491
Ion Ratio Lower Upper
129 100
127 81.7 36.9 110.7





#61

1,2-Dibromoethane

Concen: 22.62 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

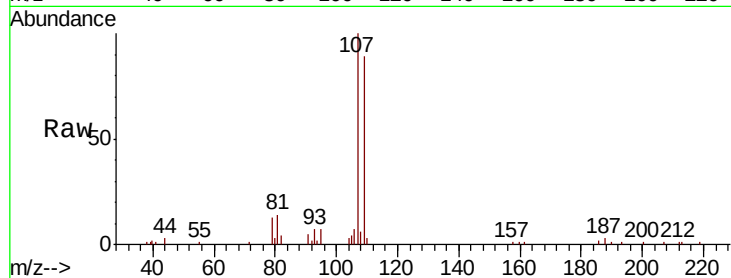
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:107 Resp: 34858

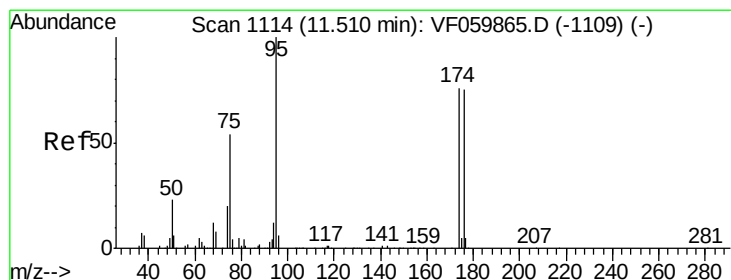
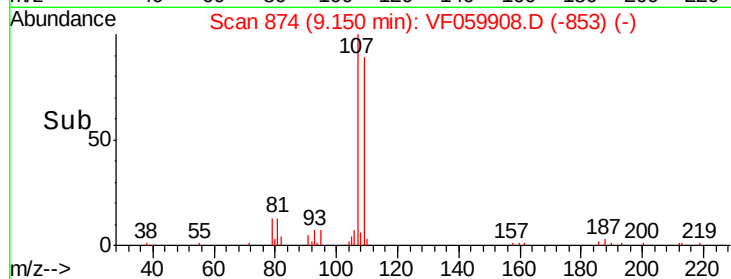
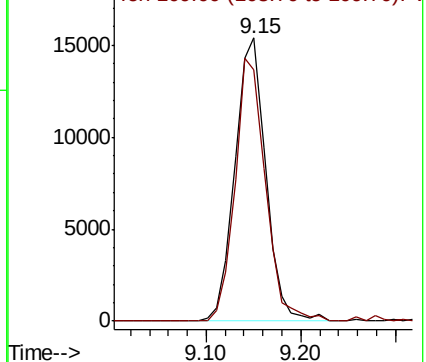
Ion Ratio Lower Upper

107 100

109 88.9 75.8 113.8



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 58.62 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

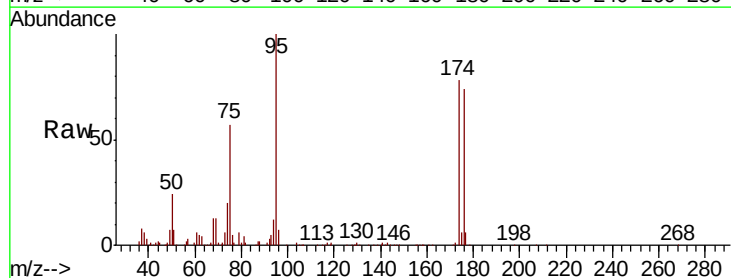
Tgt Ion: 95 Resp: 167678

Ion Ratio Lower Upper

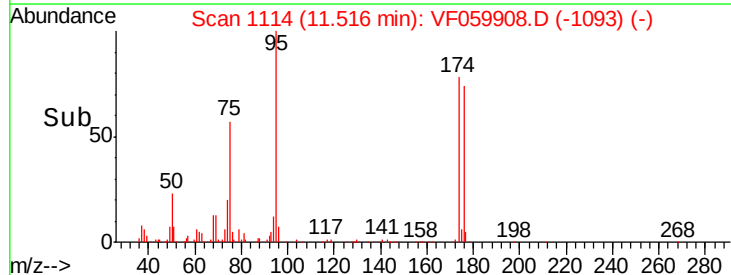
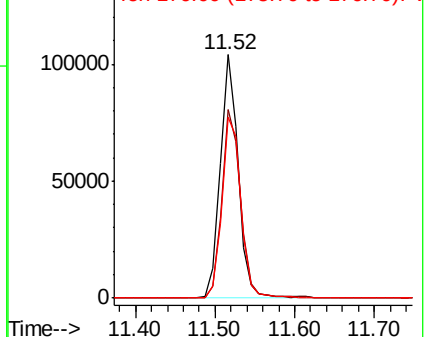
95 100

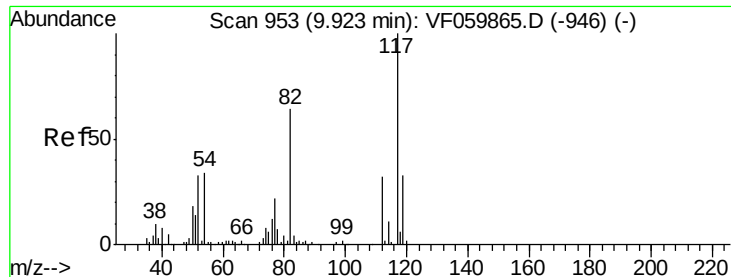
174 77.7 0.0 151.6

176 74.4 0.0 149.8



Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

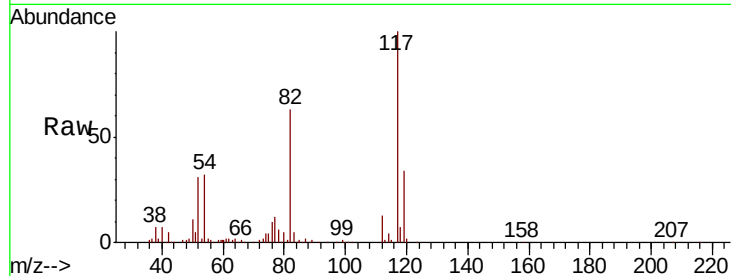




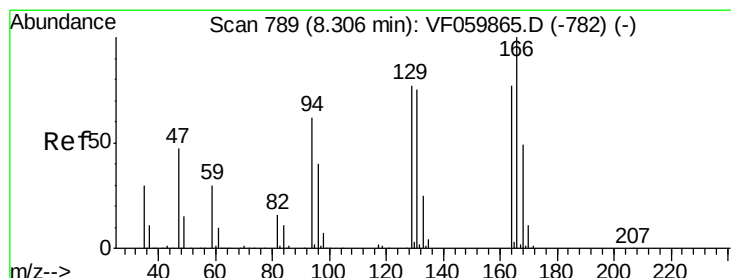
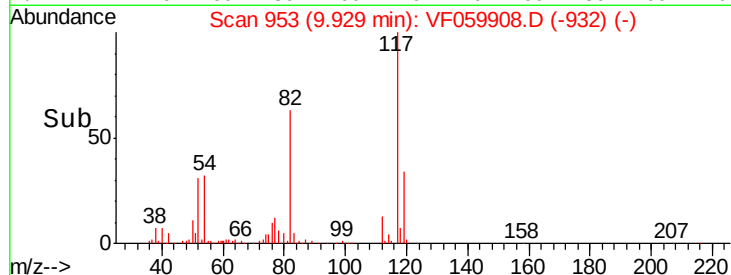
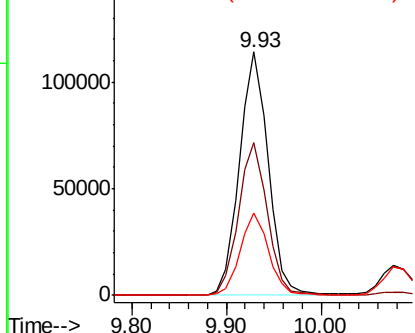
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 240904
Ion Ratio Lower Upper
117 100
82 62.9 51.3 76.9
119 33.6 26.4 39.6

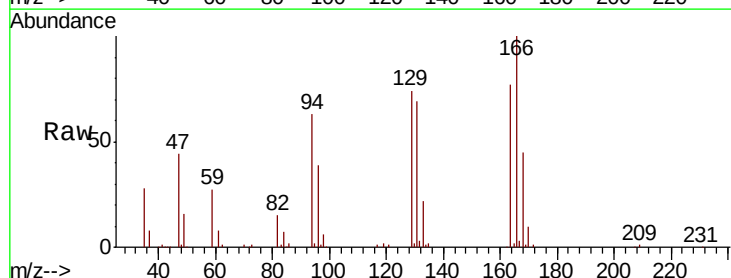


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

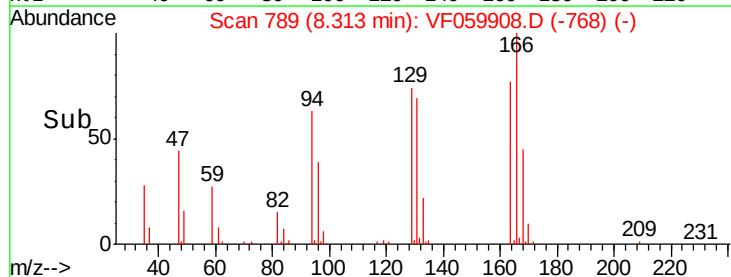
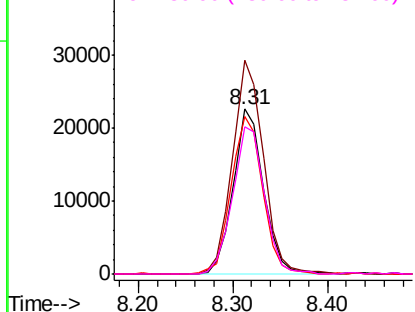


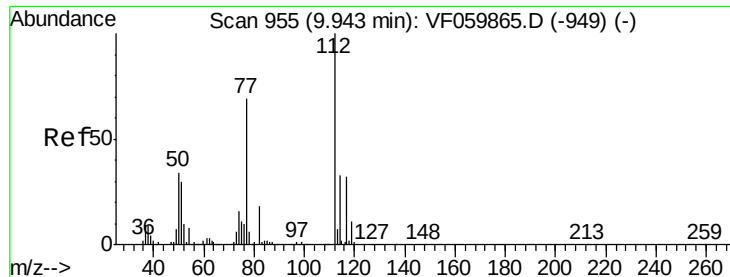
#64
Tetrachloroethene
Concen: 24.14 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion:164 Resp: 50165
Ion Ratio Lower Upper
164 100
166 129.4 104.4 156.6
129 95.3 80.3 120.5
131 89.3 78.5 117.7



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

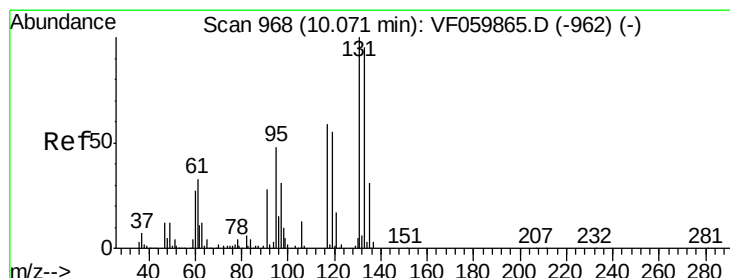
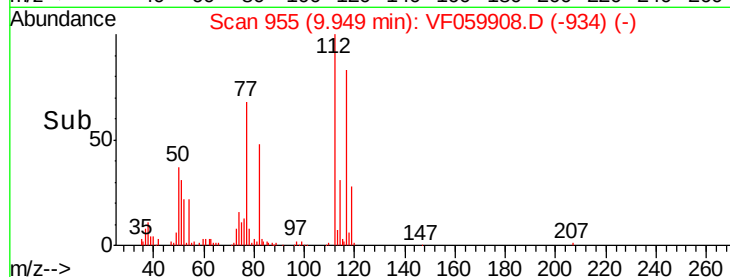
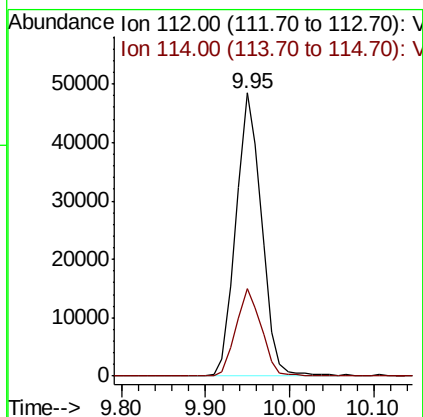
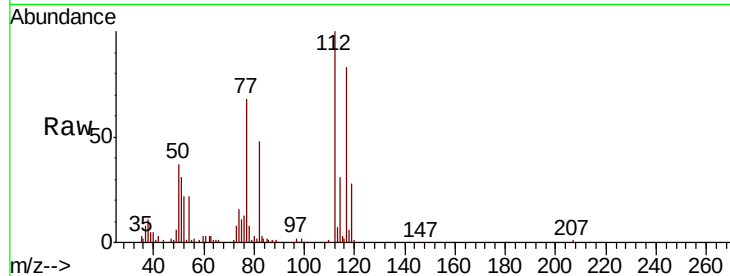




#65
Chlorobenzene
Concen: 21.04 ug/l
RT: 9.95 min Scan# 955
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

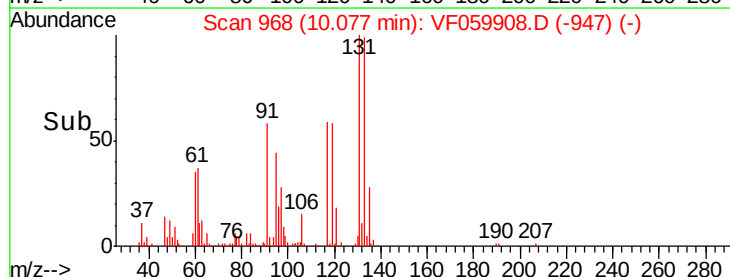
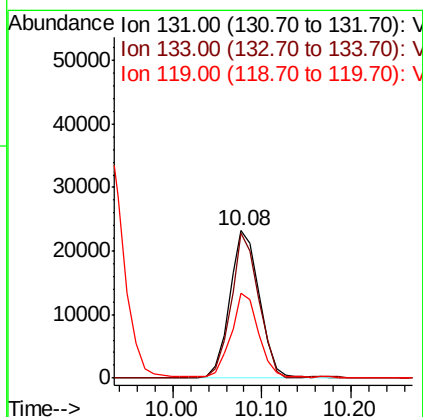
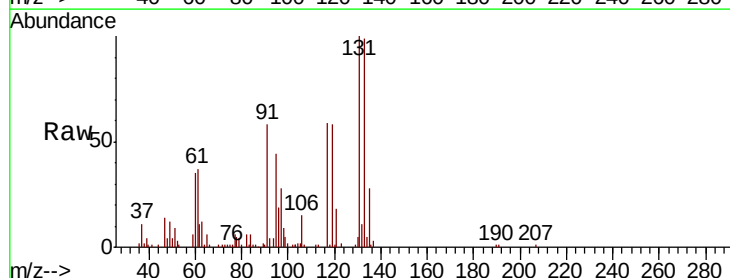
Instrument :
MSVOA_F
ClientSampleId :

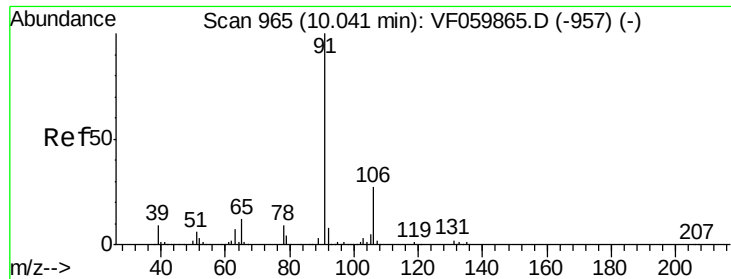
Tot Ion:112 Resp: 102882
Ion Ratio Lower Upper
112 100
114 31.0 26.4 39.6



#66
1,1,1,2-Tetrachloroethane
Concen: 22.28 ug/l
RT: 10.08 min Scan# 968
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion:131 Resp: 54192
Ion Ratio Lower Upper
131 100
133 98.8 47.4 142.2
119 57.5 27.7 83.1





#67

Ethyl Benzene

Concen: 21.62 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

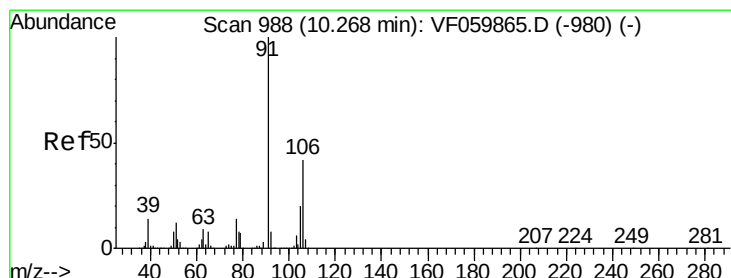
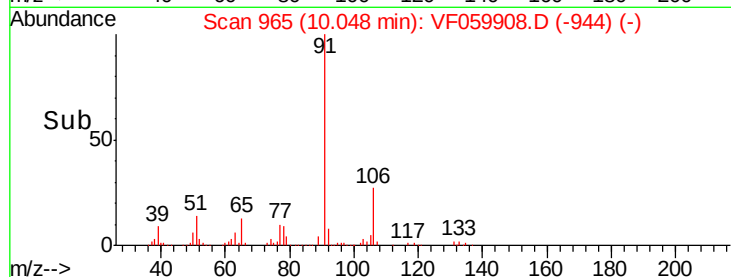
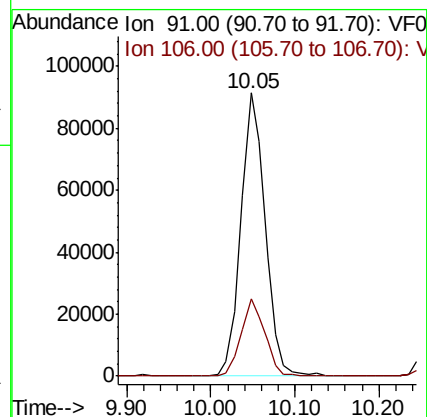
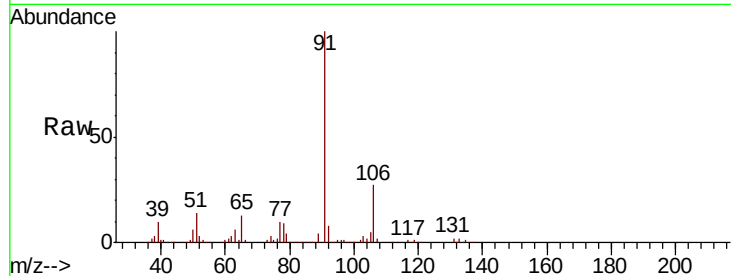
ClientSampled :

Tot Ion: 91 Resp: 184206

Ion Ratio Lower Upper

91 100

106 27.1 21.5 32.3



#68

m/p-Xylenes

Concen: 43.23 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VF059908.D

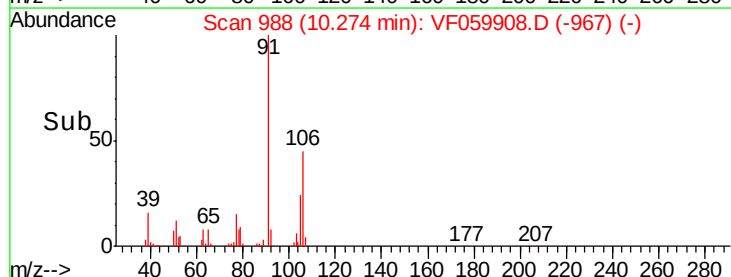
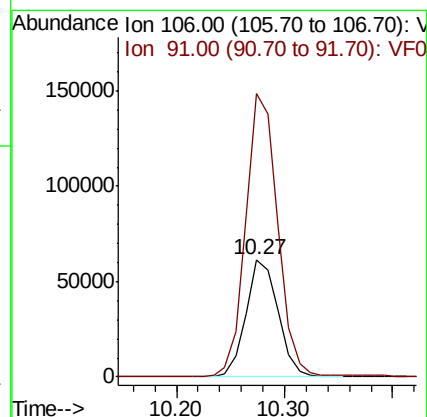
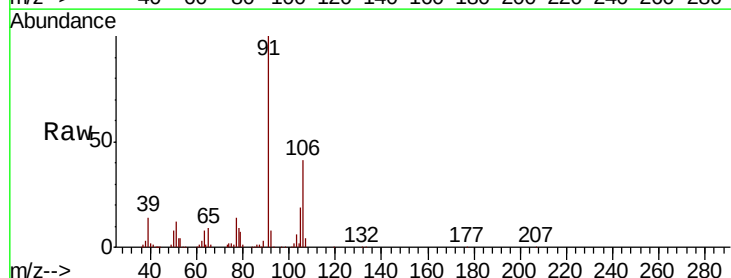
Acq: 7 Aug 2018 8:03

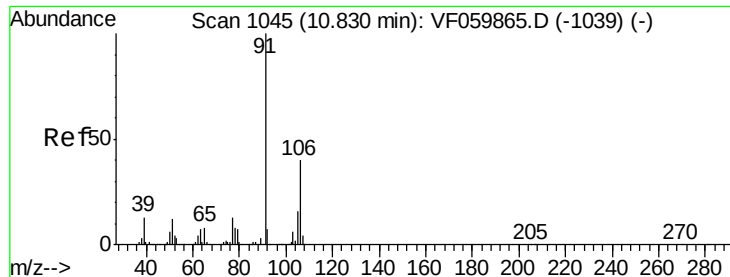
Tgt Ion: 106 Resp: 127291

Ion Ratio Lower Upper

106 100

91 241.7 192.1 288.1

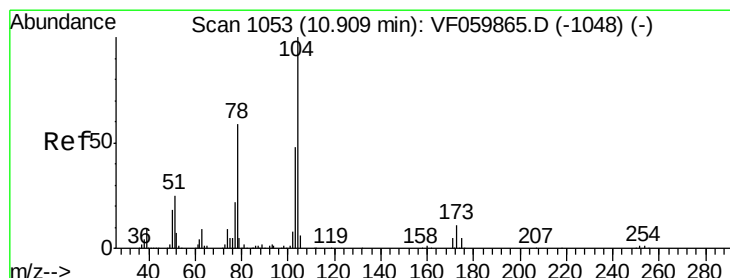
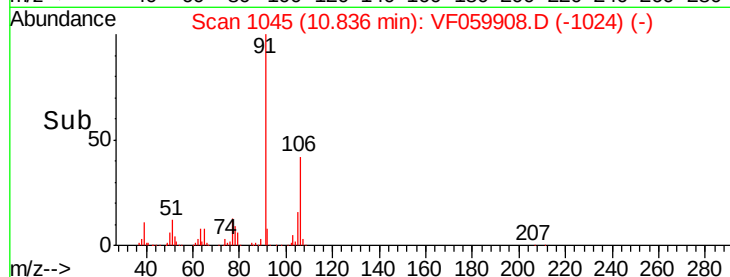
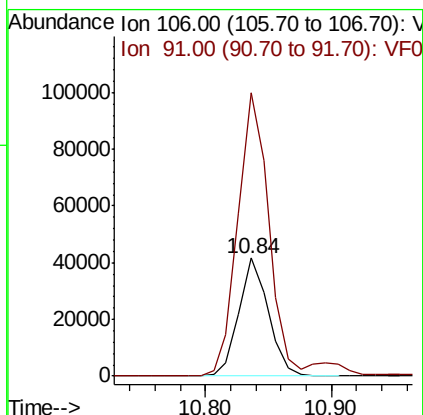
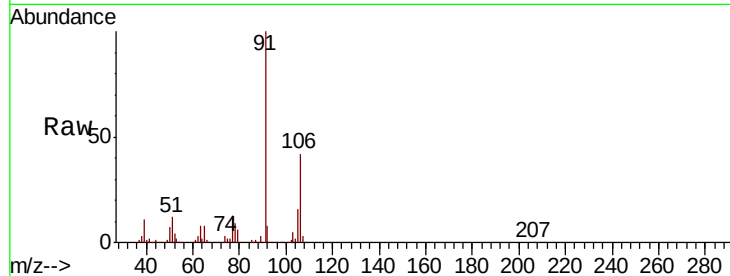




#69
o-Xylene
Concen: 21.77 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

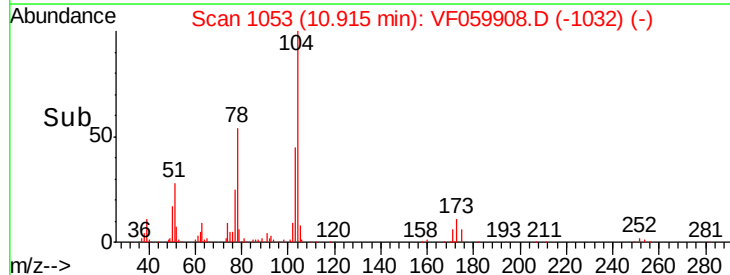
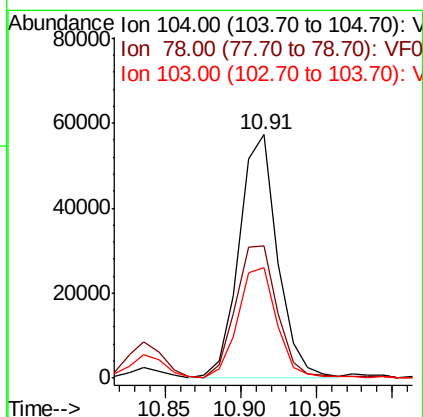
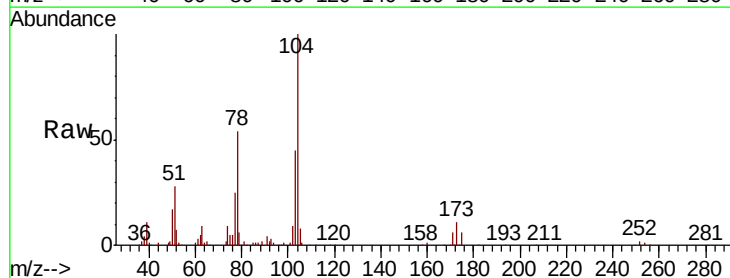
Instrument :
MSVOA_F
ClientSampled :

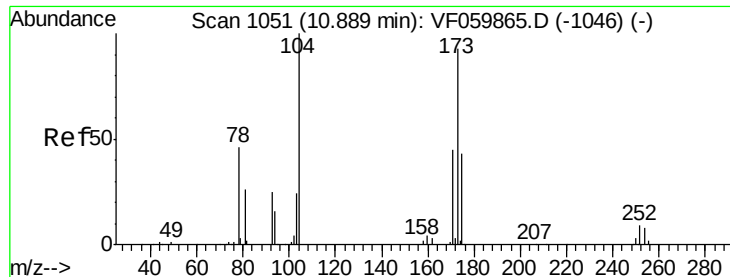
Tot Ion:106 Resp: 67923
Ion Ratio Lower Upper
106 100
91 239.7 125.4 376.2



#70
Styrene
Concen: 21.58 ug/l
RT: 10.91 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion:104 Resp: 100479
Ion Ratio Lower Upper
104 100
78 54.4 47.3 70.9
103 45.2 39.0 58.4





#71

Bromoform

Concen: 22.31 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampled :

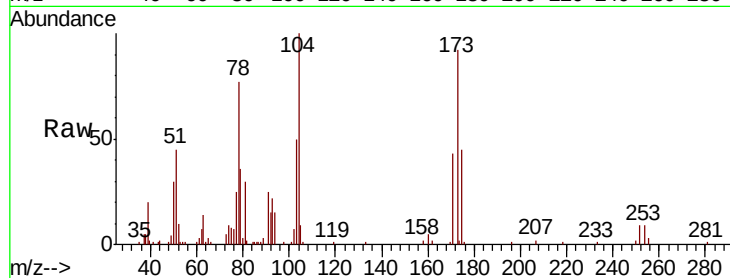
Tot Ion:173 Resp: 33261

Ion Ratio Lower Upper

173 100

175 47.9 23.4 70.2

254 0.0 0.0 0.0

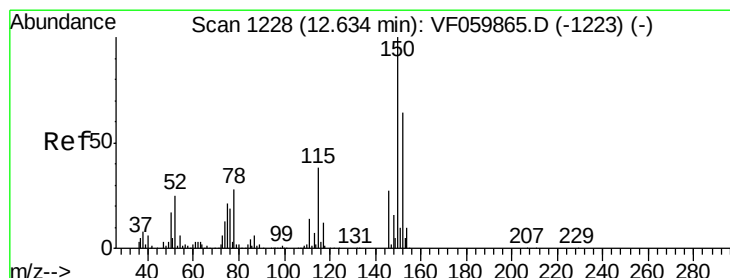
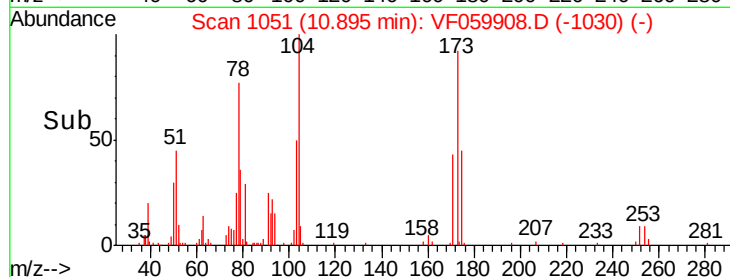
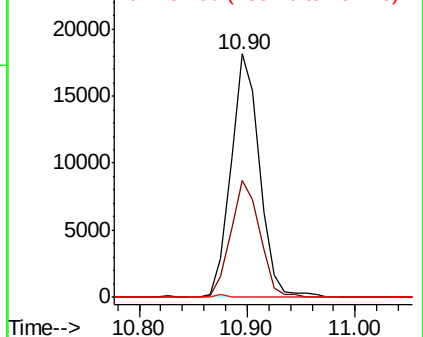


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

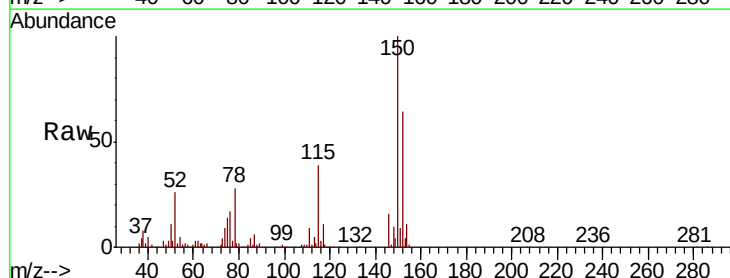
Tgt Ion:152 Resp: 172523

Ion Ratio Lower Upper

152 100

115 61.0 29.8 89.4

150 155.1 0.0 315.6

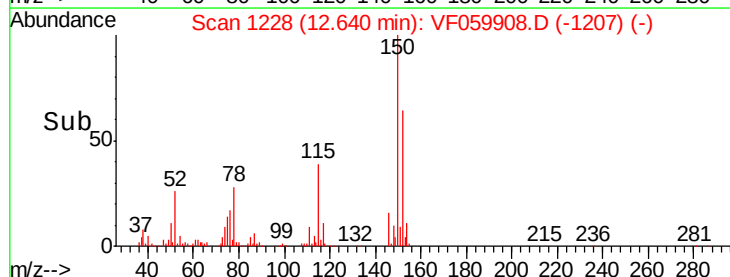
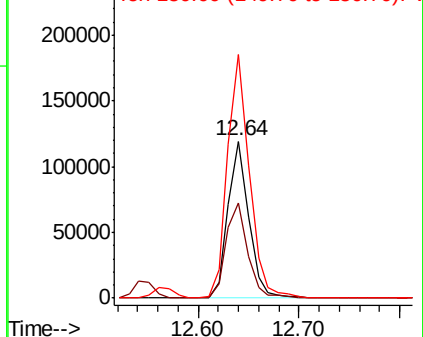


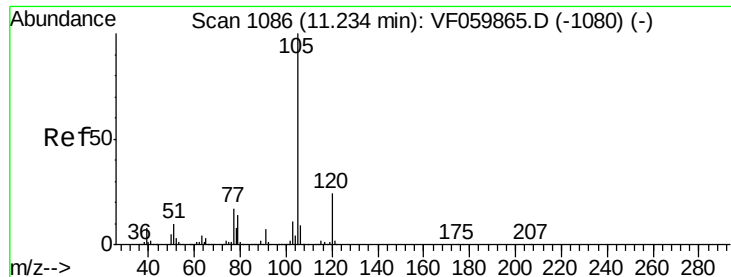
Abundance

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: 21.05 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

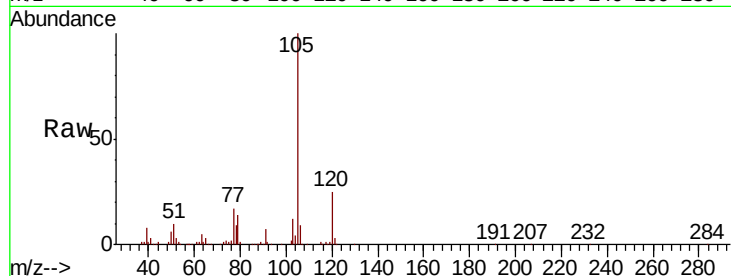
ClientSampleId :

Tot Ion:105 Resp: 226240

Ion Ratio Lower Upper

105 100

120 24.7 12.1 36.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.24

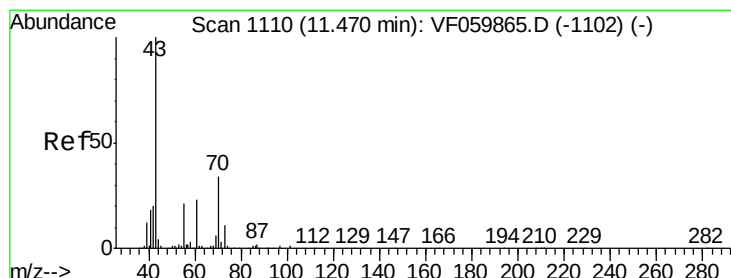
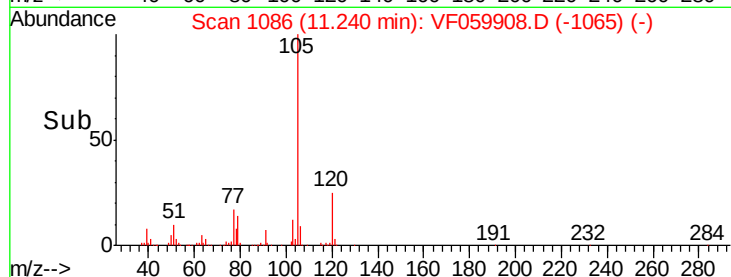
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 20.43 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Tgt Ion: 43 Resp: 49392

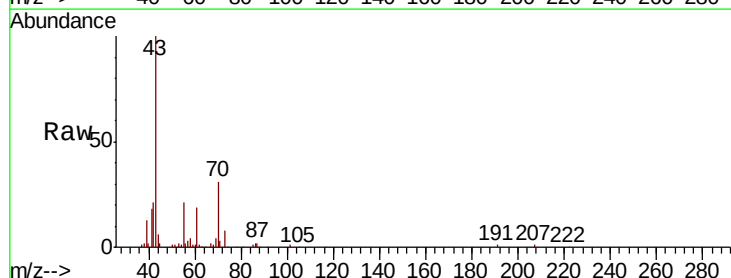
Ion Ratio Lower Upper

43 100

70 30.8 27.5 41.3

55 20.6 16.6 25.0

61 18.5 18.2 27.4



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

40000

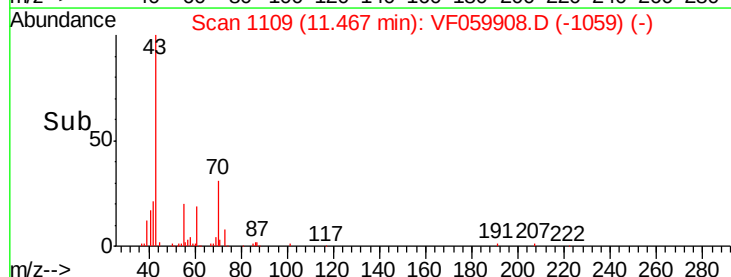
30000

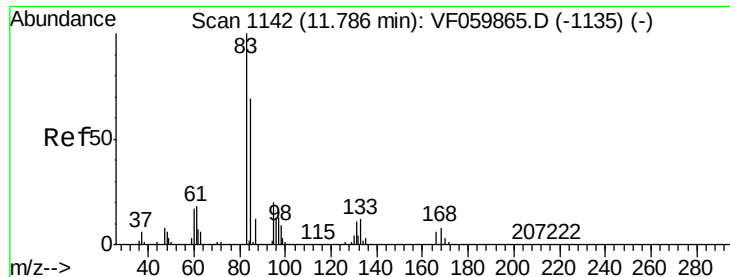
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.90 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampleId :

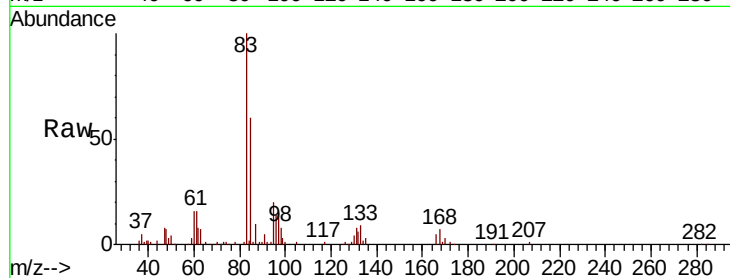
Tot Ion: 83 Resp: 40158

Ion Ratio Lower Upper

83 100

131 8.5 5.3 15.9

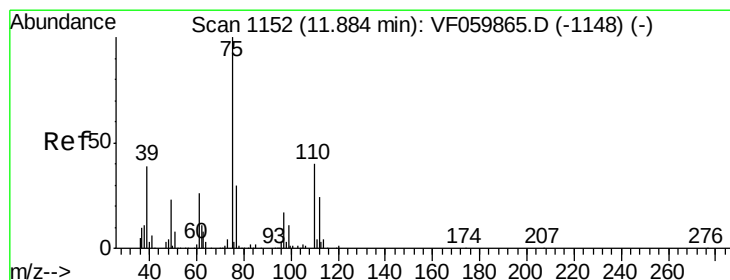
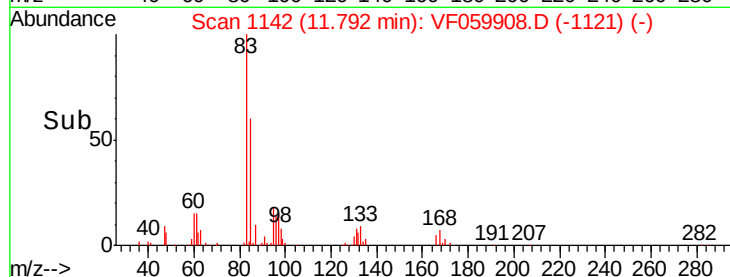
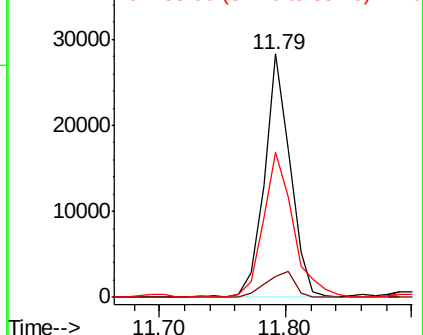
85 59.6 34.5 103.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 22.61 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.01 min

Lab File: VF059908.D

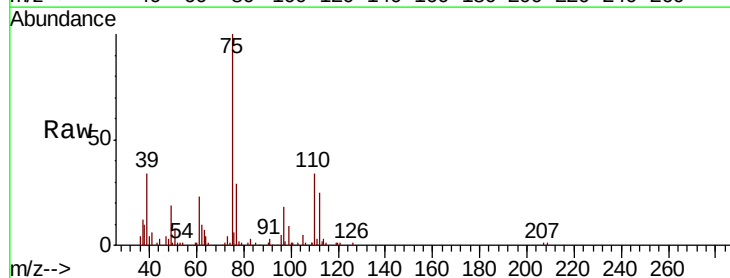
Acq: 7 Aug 2018 8:03

Tgt Ion: 75 Resp: 39185

Ion Ratio Lower Upper

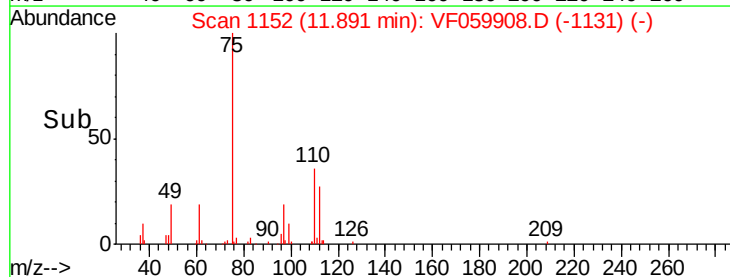
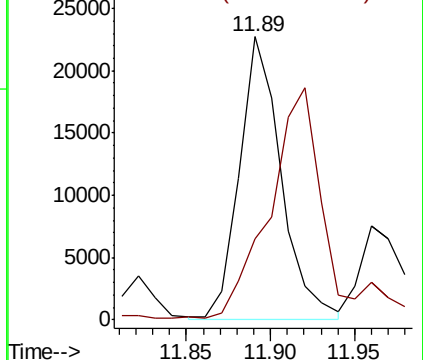
75 100

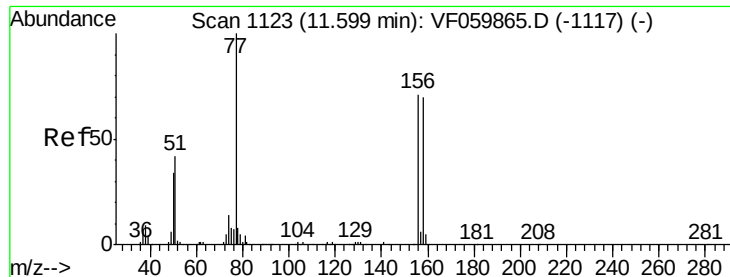
77 28.7 15.4 46.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.36 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampleId :

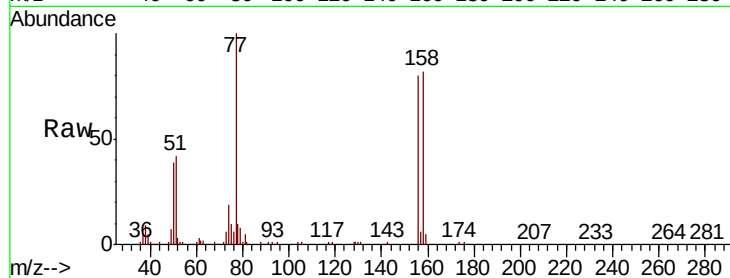
Tot Ion:156 Resp: 59492

Ion Ratio Lower Upper

156 100

77 125.3 70.2 210.6

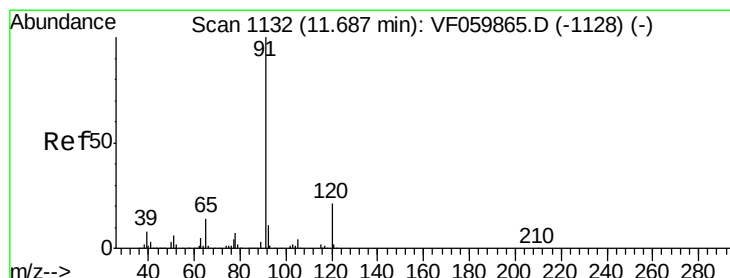
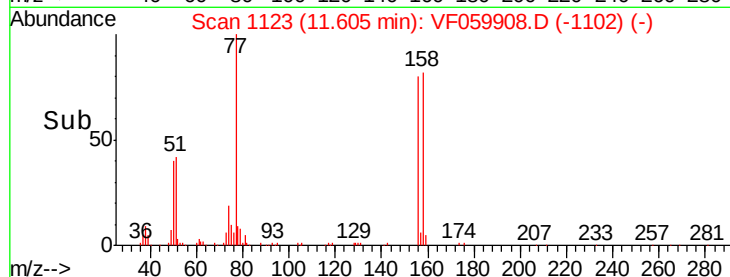
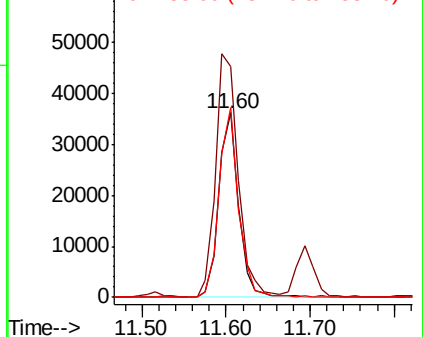
158 102.9 49.2 147.6



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 21.15 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VF059908.D

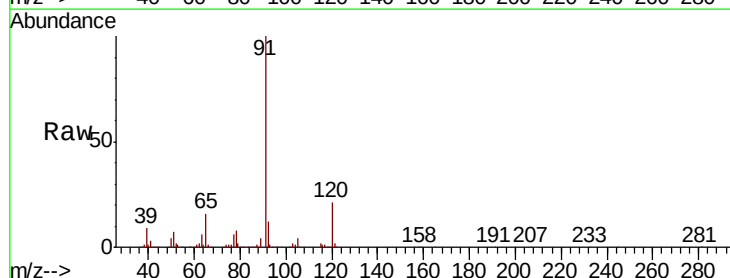
Acq: 7 Aug 2018 8:03

Tgt Ion: 91 Resp: 268348

Ion Ratio Lower Upper

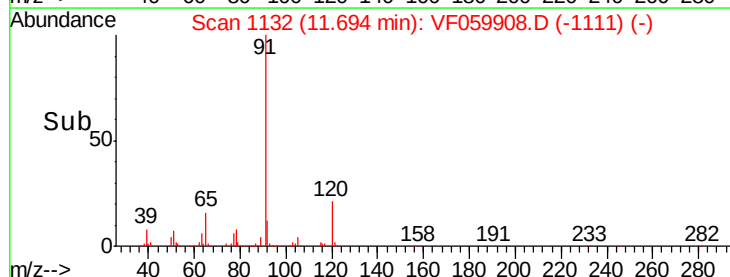
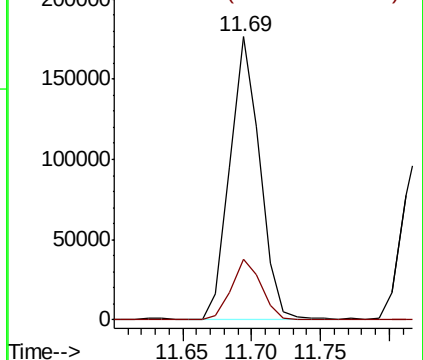
91 100

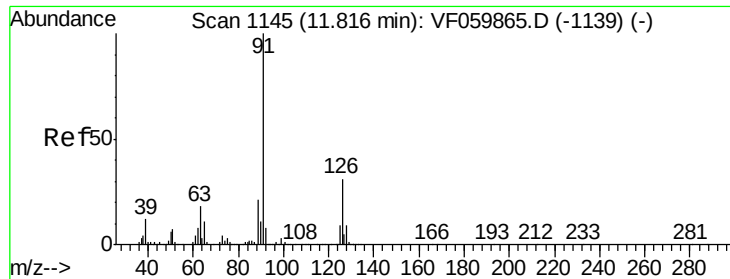
120 21.3 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

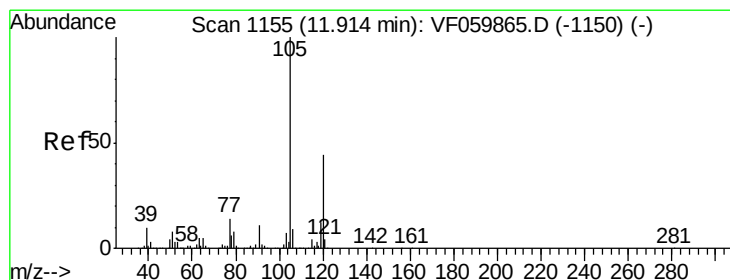
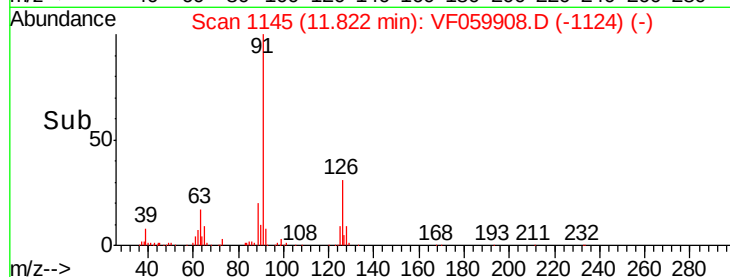
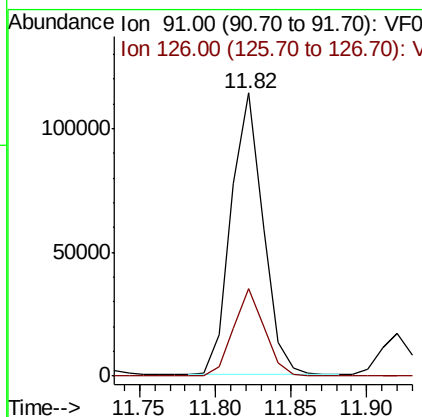
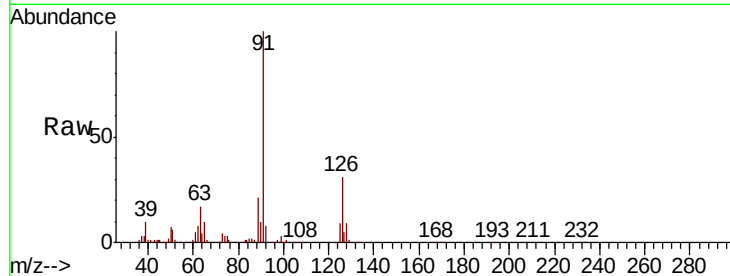




#79
 2-Chlorotoluene
 Concen: 20.94 ug/l
 RT: 11.82 min Scan# 1145
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

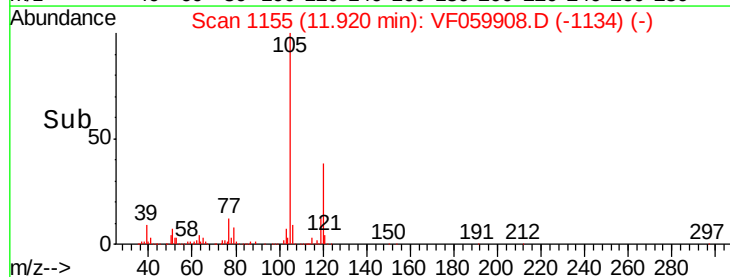
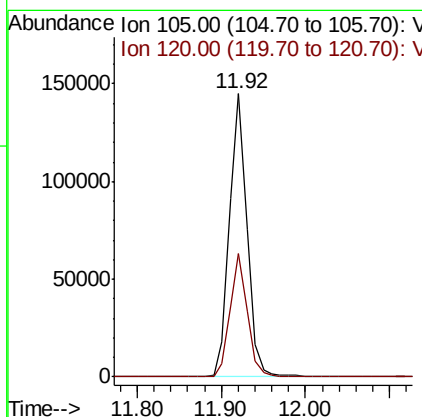
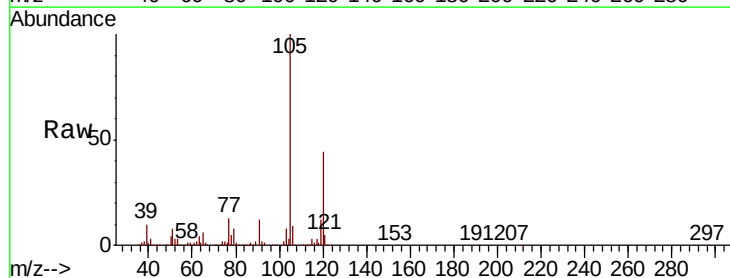
Instrument :
 MSVOA_F
 ClientSampled :

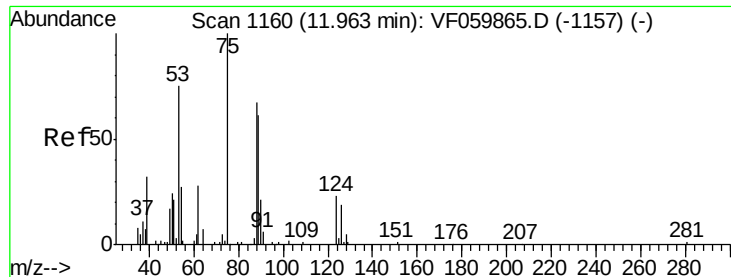
Tot Ion: 91 Resp: 168131
 Ion Ratio Lower Upper
 91 100
 126 30.7 15.6 46.7



#80
 1,3,5-Trimethylbenzene
 Concen: 21.12 ug/l
 RT: 11.92 min Scan# 1155
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion:105 Resp: 210694
 Ion Ratio Lower Upper
 105 100
 120 43.8 21.9 65.7





#81

trans-1,4-Dichloro-2-butene

Concen: 29.90 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampleId :

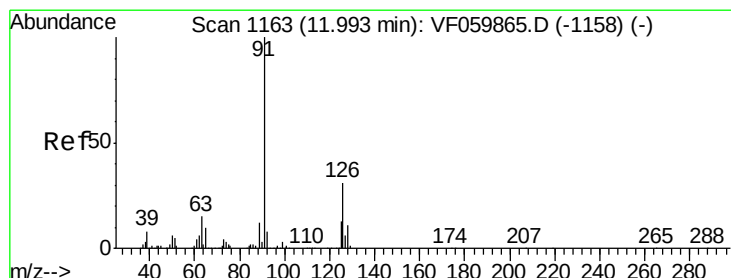
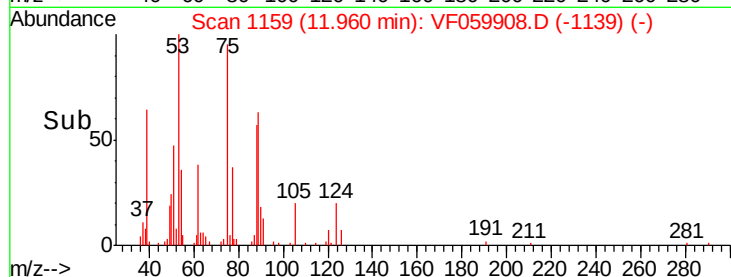
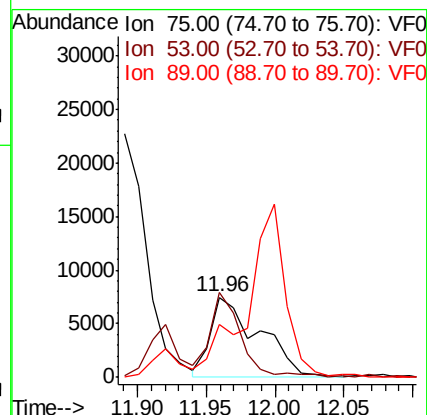
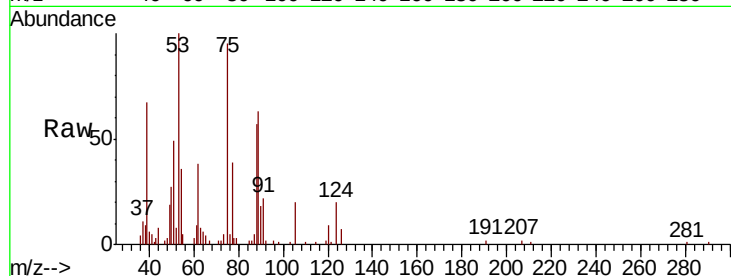
Tot Ion: 75 Resp: 18612

Ion Ratio Lower Upper

75 100

53 105.7 65.9 98.9#

89 66.6 50.6 76.0



#82

4-Chlorotoluene

Concen: 20.76 ug/l

RT: 12.00 min Scan# 1163

Delta R.T. 0.01 min

Lab File: VF059908.D

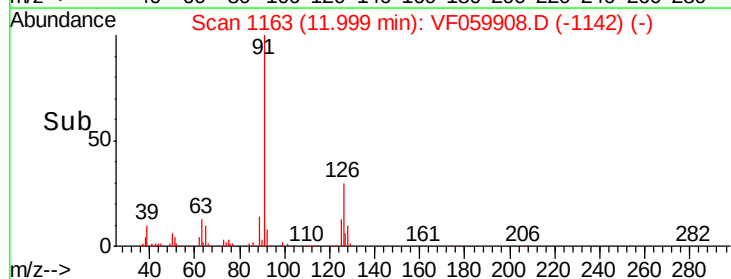
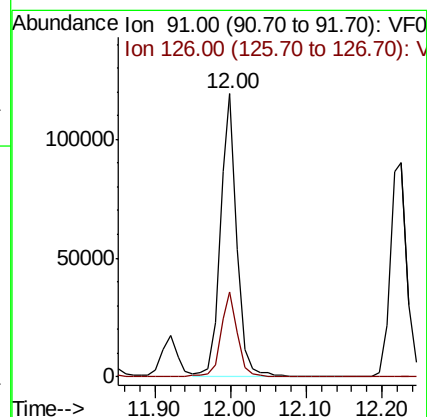
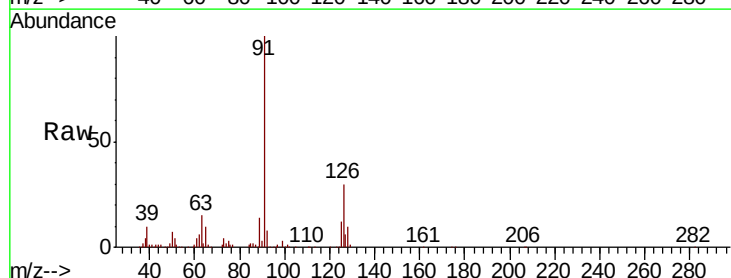
Acq: 7 Aug 2018 8:03

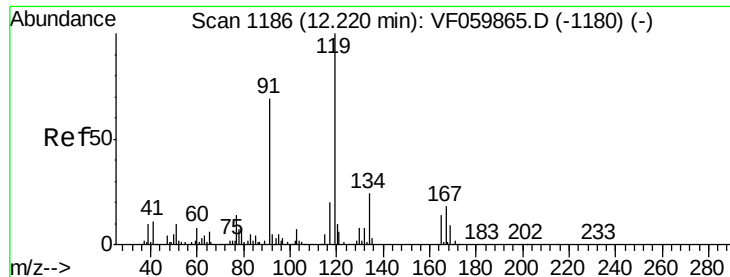
Tgt Ion: 91 Resp: 180977

Ion Ratio Lower Upper

91 100

126 30.1 15.7 47.0

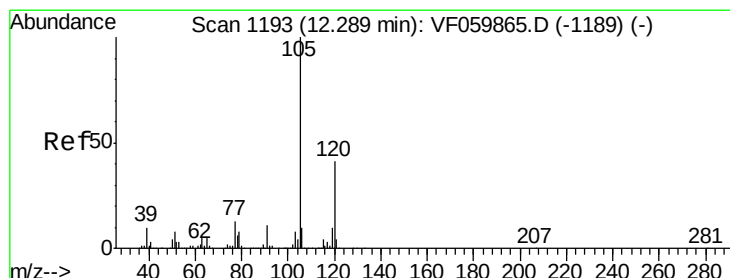
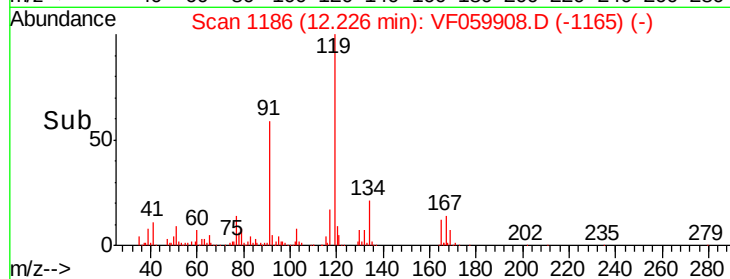
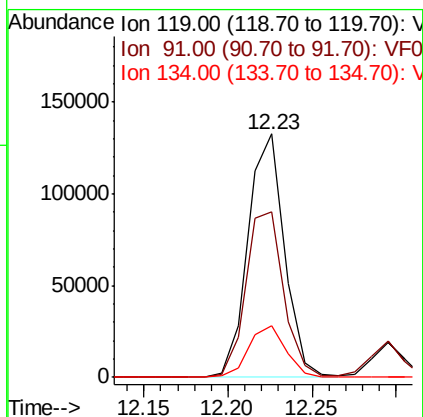
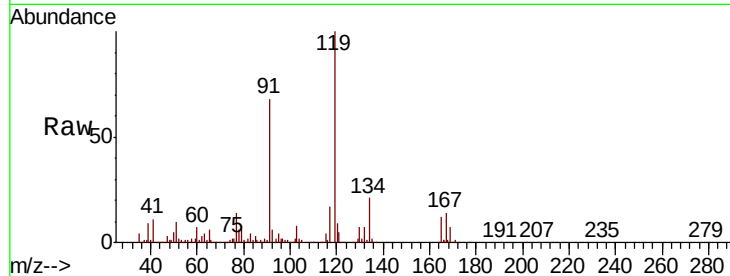




#83
 tert-Butylbenzene
 Concen: 20.52 ug/l
 RT: 12.23 min Scan# 1186
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

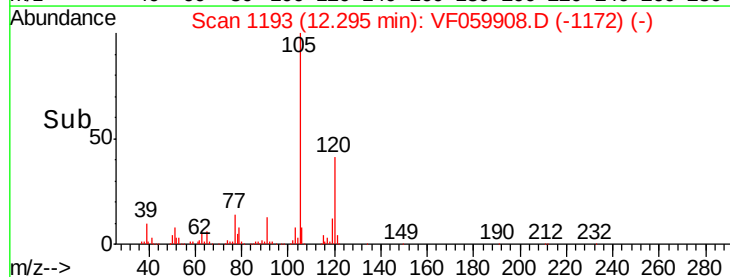
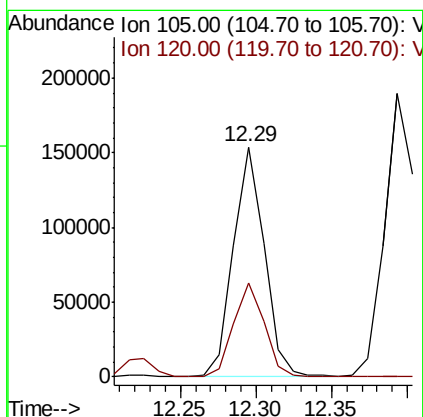
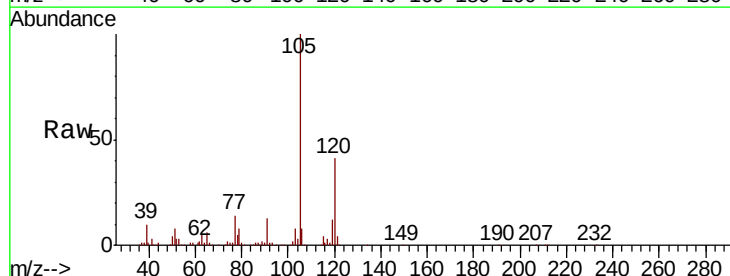
Instrument :
 MSVOA_F
 ClientSampleId :

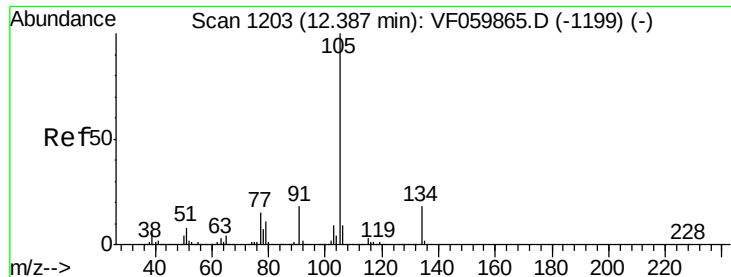
Tot Ion:119 Resp: 199269
 Ion Ratio Lower Upper
 119 100
 91 68.0 34.4 103.2
 134 21.2 12.1 36.3



#84
 1,2,4-Trimethylbenzene
 Concen: 21.29 ug/l
 RT: 12.29 min Scan# 1193
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion:105 Resp: 218447
 Ion Ratio Lower Upper
 105 100
 120 40.7 20.8 62.5





#85

sec-Butylbenzene

Concen: 21.27 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

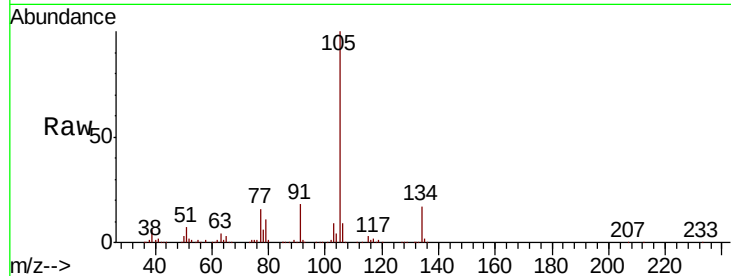
ClientSampled :

Tot Ion:105 Resp: 274461

Ion Ratio Lower Upper

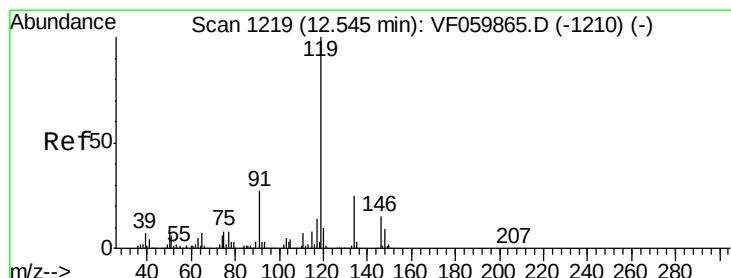
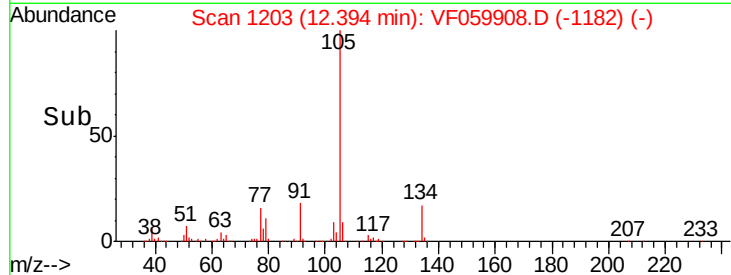
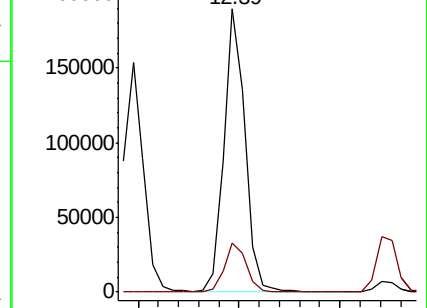
105 100

134 17.5 9.1 27.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.88 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

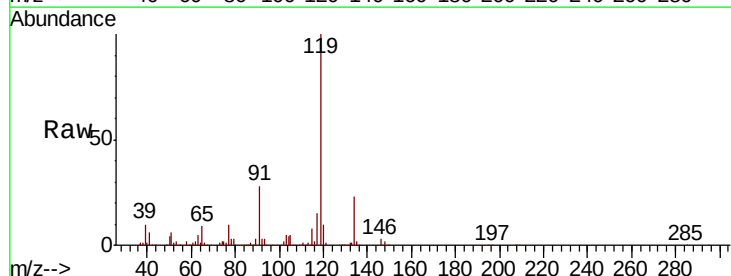
Tgt Ion:119 Resp: 237316

Ion Ratio Lower Upper

119 100

134 23.1 12.4 37.0

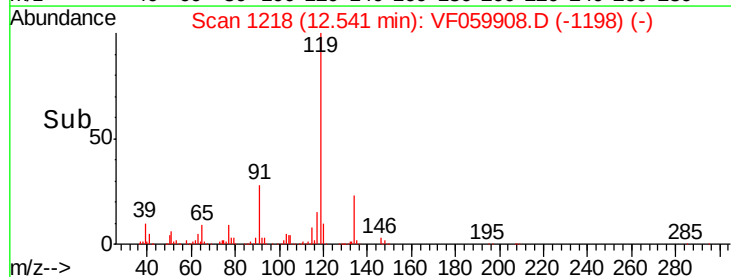
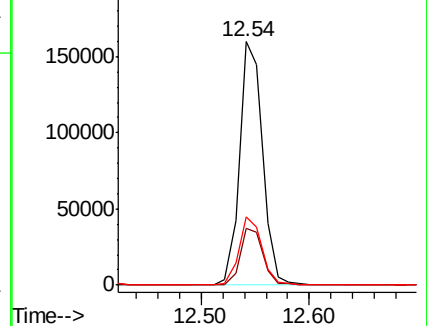
91 28.0 13.6 40.7

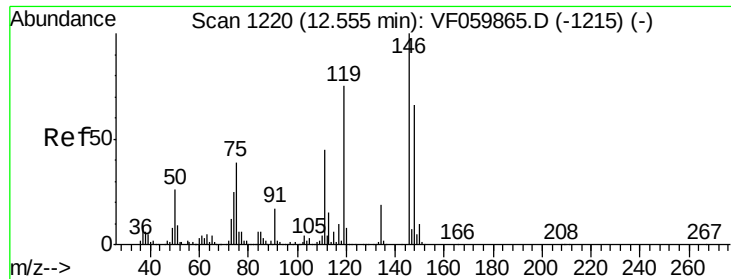


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

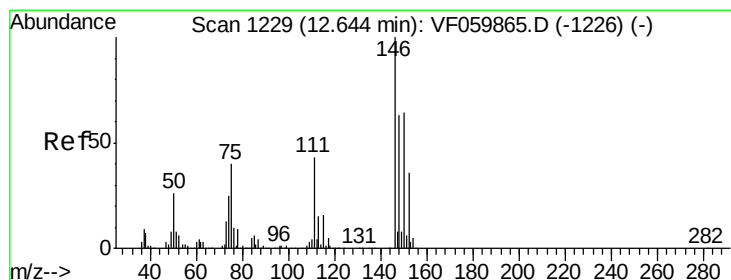
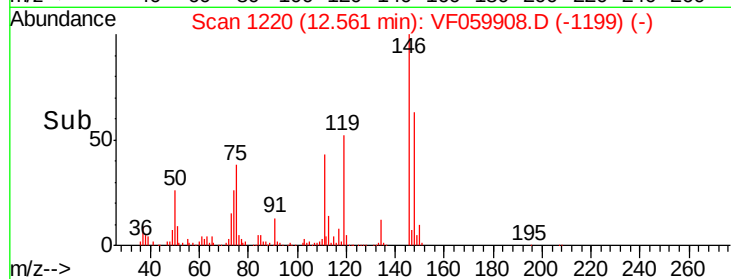
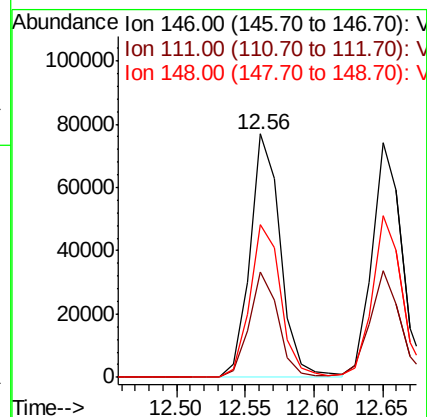
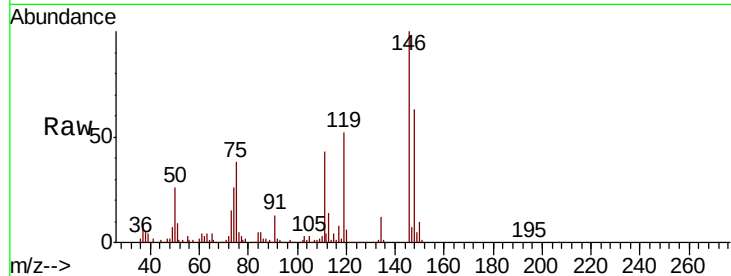




#87
 1,3-Dichlorobenzene
 Concen: 21.47 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

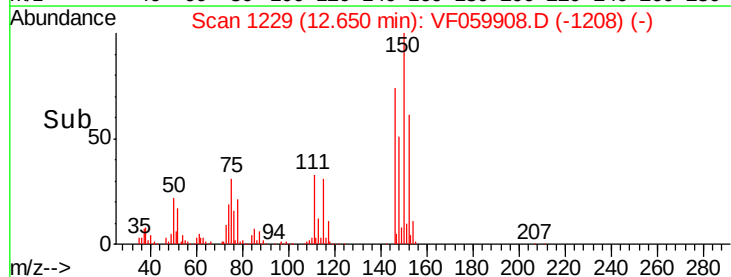
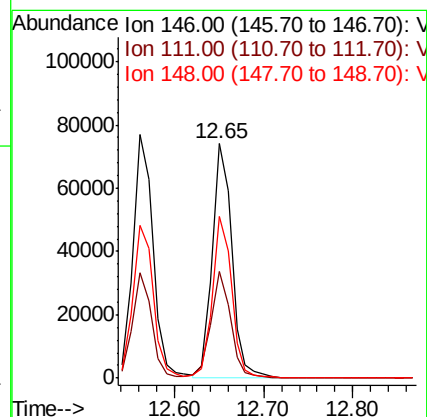
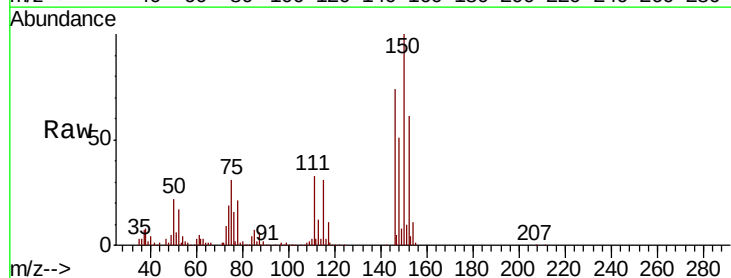
Instrument :
 MSVOA_F
 ClientSampled :

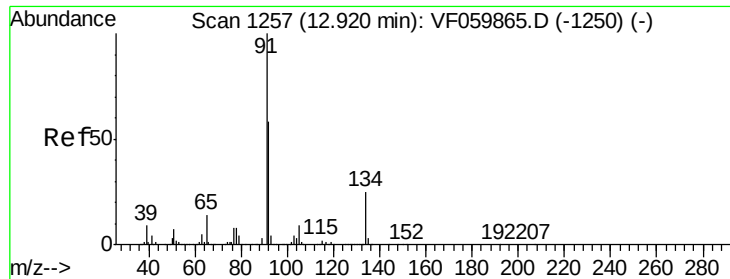
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	22.4	67.0
148	62.8	33.1	99.3



#88
 1,4-Dichlorobenzene
 Concen: 20.98 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.4	21.4	64.2
148	69.0	31.6	94.7





#89

n-Butylbenzene

Concen: 22.10 ug/l

RT: 12.93 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampleId :

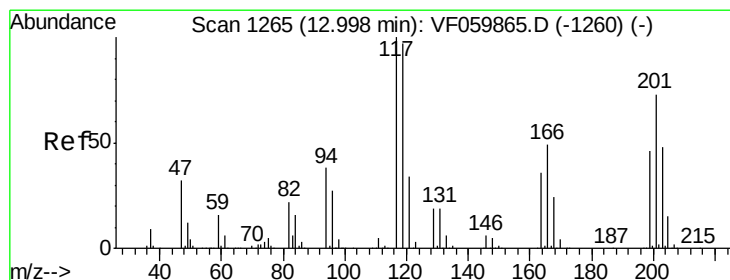
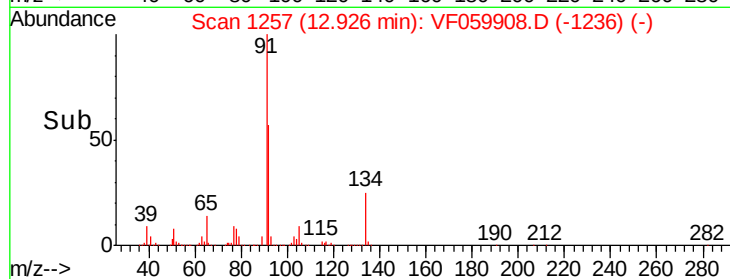
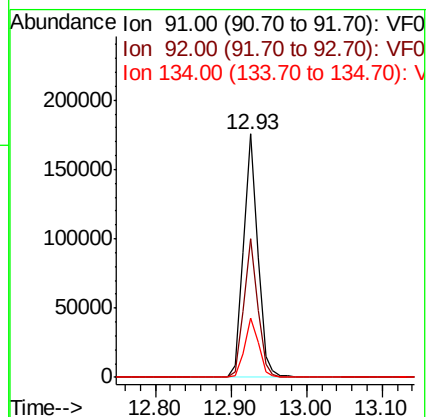
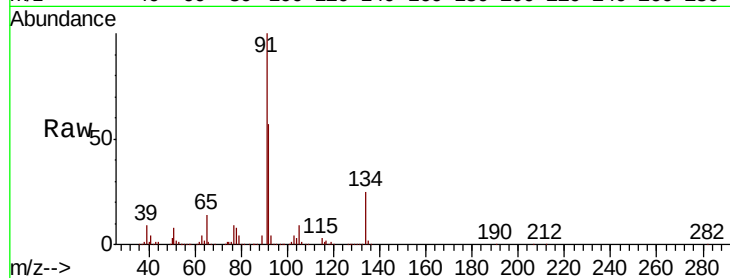
Tot Ion: 91 Resp: 228464

Ion Ratio Lower Upper

91 100

92 57.1 28.8 86.5

134 24.5 12.6 37.6



#90

Hexachloroethane

Concen: 21.25 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF059908.D

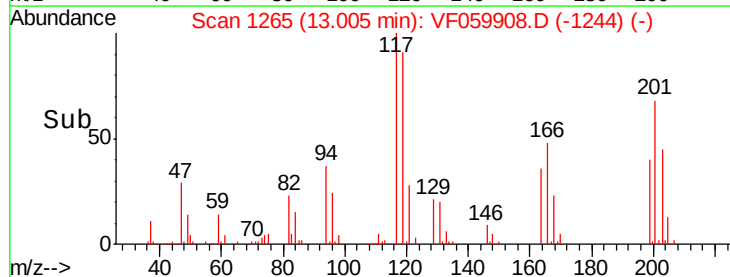
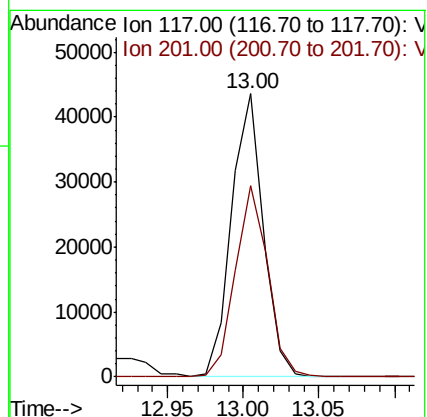
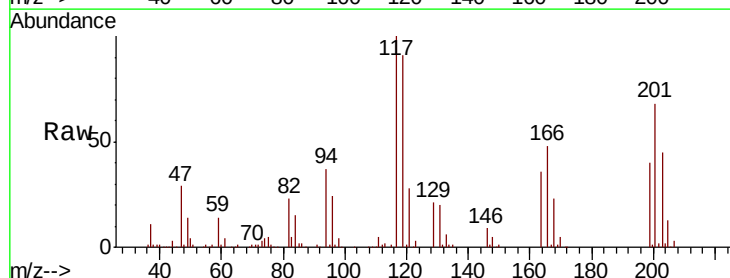
Acq: 7 Aug 2018 8:03

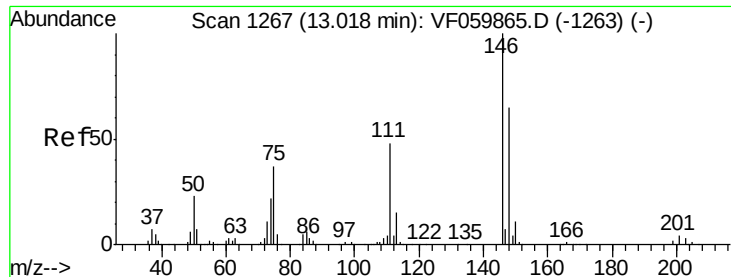
Tgt Ion: 117 Resp: 63619

Ion Ratio Lower Upper

117 100

201 67.6 36.6 109.8





#91

1,2-Dichlorobenzene

Concen: 21.09 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

Instrument :

MSVOA_F

ClientSampleId :

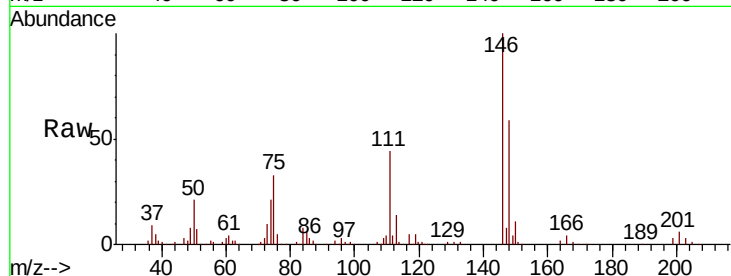
Tot Ion:146 Resp: 112351

Ion Ratio Lower Upper

146 100

111 43.6 24.1 72.2

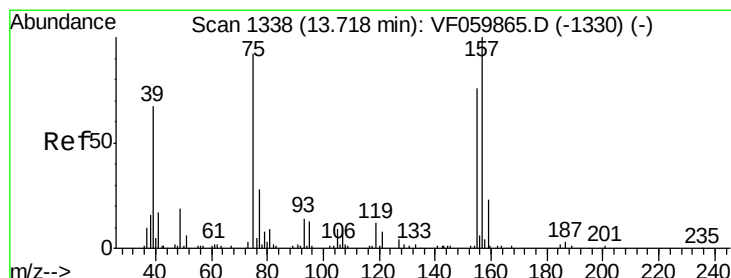
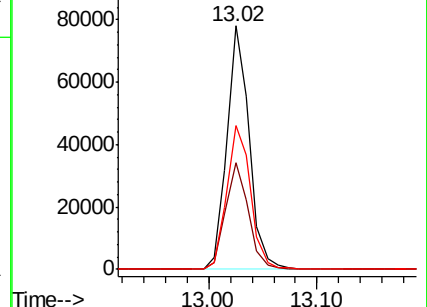
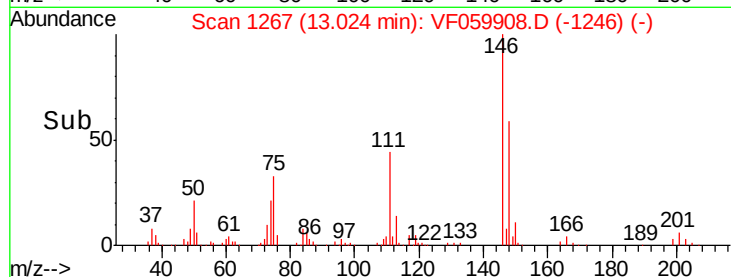
148 59.0 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.91 ug/l

RT: 13.72 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VF059908.D

Acq: 7 Aug 2018 8:03

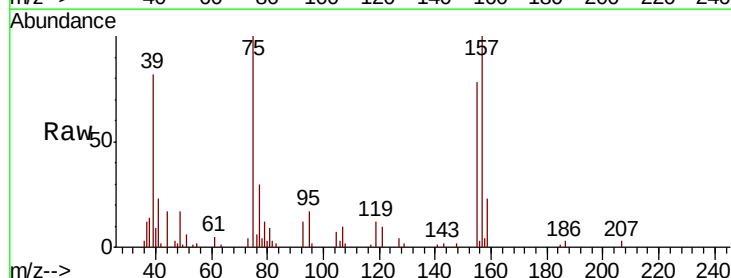
Tgt Ion: 75 Resp: 11142

Ion Ratio Lower Upper

75 100

155 81.4 41.2 123.6

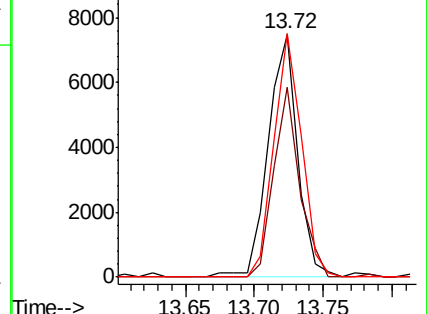
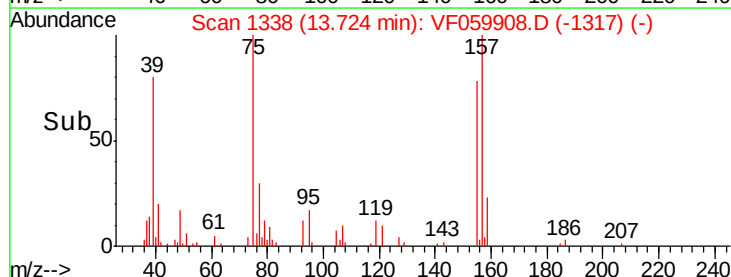
157 100.5 54.5 163.6

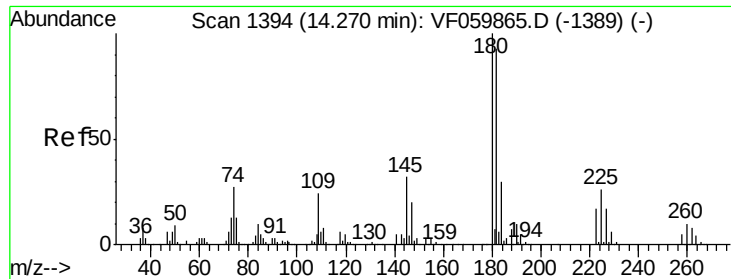


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

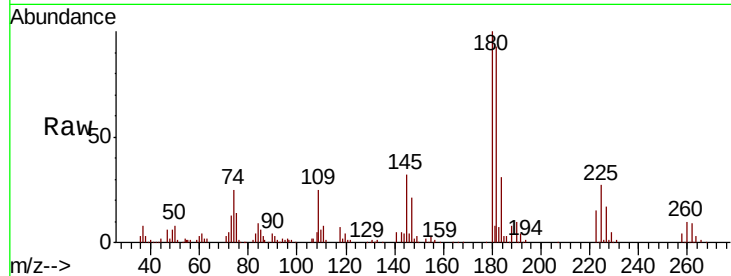




#93
 1,2,4-Trichlorobenzene
 Concen: 21.63 ug/l
 RT: 14.28 min Scan# 1394
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.4	139.2
145	32.4	15.9	47.7

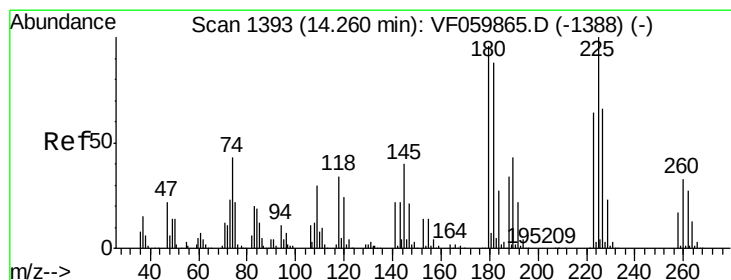
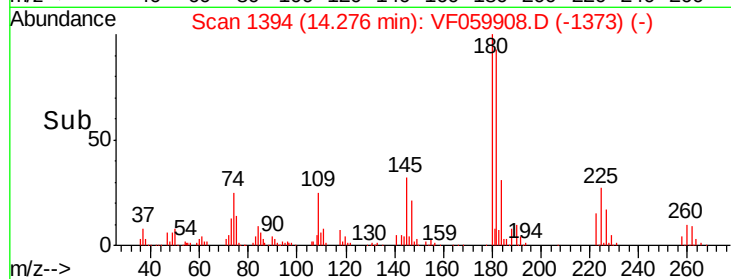
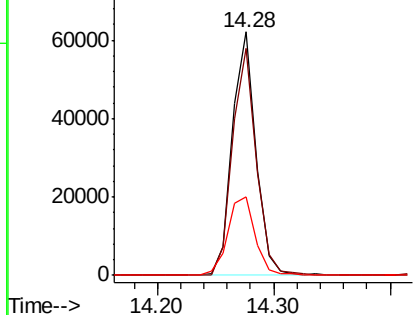


Abundance

Ion 180.00 (179.70 to 180.70): V

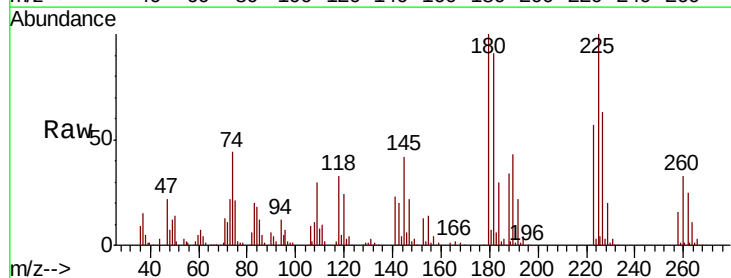
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 21.04 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VF059908.D
 Acq: 7 Aug 2018 8:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	56.7	31.9	95.9
227	62.8	32.8	98.4

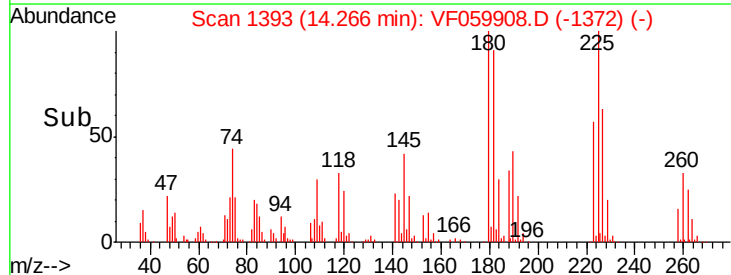
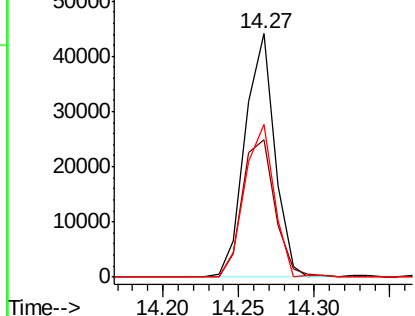


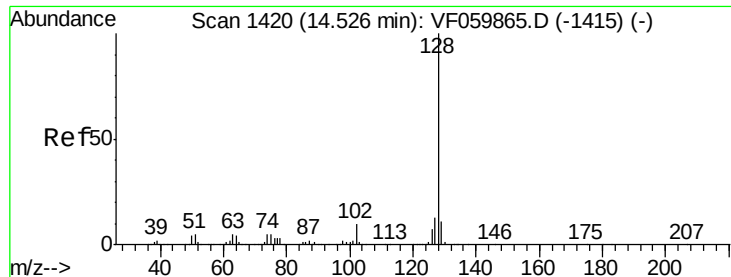
Abundance

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

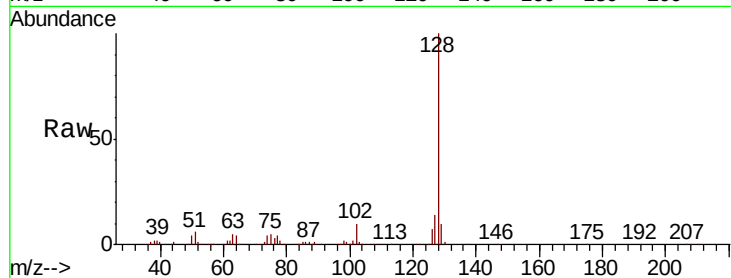




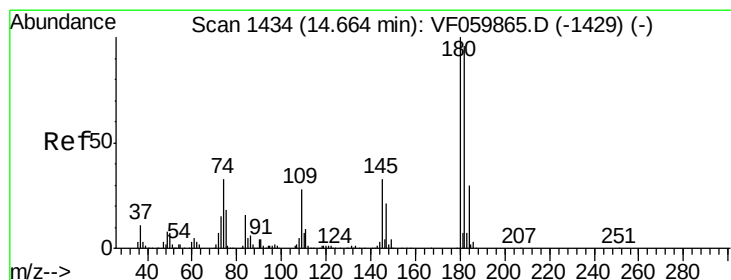
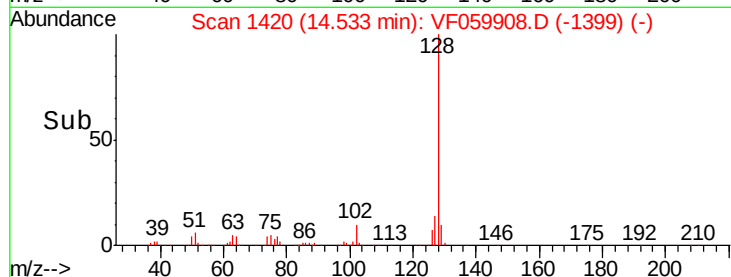
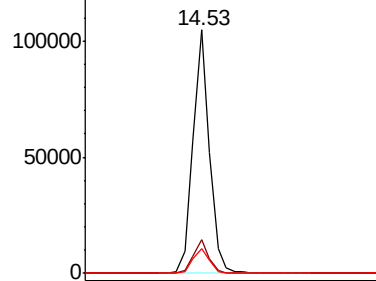
#95
Naphthalene
Concen: 20.31 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. 0.01 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.4	15.6
129	10.3	9.0	13.6

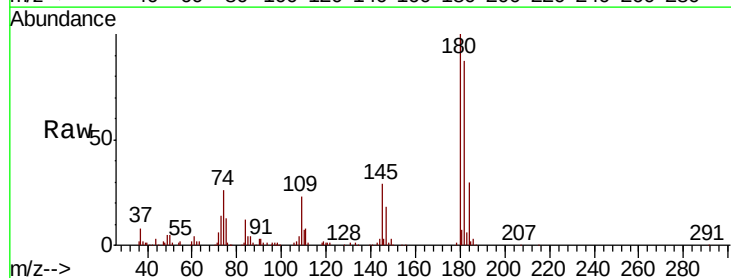


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 21.44 ug/l
RT: 14.68 min Scan# 1435
Delta R.T. 0.02 min
Lab File: VF059908.D
Acq: 7 Aug 2018 8:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.2	48.1	144.3
145	29.1	16.6	49.8



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

