

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF060618\
 Data File : VF058110.D
 Acq On : 6 Jun 2018 16:45
 Operator : JC/SY
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Quant Time: Jun 07 05:57:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 05:56:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	359983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	579615	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	557978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	333839	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	43065	9.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	19.24%	
35) Dibromofluoromethane	4.29	113	38028	8.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	17.70%	
50) Toluene-d8	7.70	98	115654	9.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.16%	
62) 4-Bromofluorobenzene	11.51	95	63379	9.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	19.88%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.98	85	39820	9.16	ug/l	97
3) Chloromethane	1.08	50	31703	9.20	ug/l	90
4) Vinyl Chloride	1.15	62	27303	9.49	ug/l	92
5) Bromomethane	1.33	94	17009	10.45	ug/l	96
6) Chloroethane	1.42	64	12377	10.10	ug/l	91
7) Trichlorofluoromethane	1.48	101	16033	3.67	ug/l	89
8) Diethyl Ether	1.70	74	10676	10.04	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.89	101	30378	11.28	ug/l	94
10) Methyl Iodide	1.95	142	47846	10.00	ug/l	93
11) Tert butyl alcohol	2.67	59	13527	52.87	ug/l	98
12) 1,1-Dichloroethene	1.85	96	22311	9.52	ug/l	92
13) Acrolein	2.08	56	11472	68.93	ug/l	92
14) Allyl chloride	2.18	41	43430	9.70	ug/l	94
15) Acrylonitrile	3.07	53	25147	42.52	ug/l	91
16) Acetone	2.33	43	51384	52.45	ug/l	99
17) Carbon Disulfide	1.84	76	60702	9.03	ug/l	98
18) Methyl Acetate	2.45	43	16640	9.11	ug/l	97
19) Methyl tert-butyl Ether	2.53	73	70257	9.58	ug/l	98
20) Methylene Chloride	2.28	84	26452	11.03	ug/l	92
21) trans-1,2-Dichloroethene	2.41	96	24698	9.77	ug/l	92
22) Diisopropyl ether	2.92	45	88606	10.11	ug/l	99
23) Vinyl Acetate	3.32	43	298690	46.50	ug/l	98
24) 1,1-Dichloroethane	3.00	63	55081	10.14	ug/l	99
25) 2-Butanone	4.51	43	82942	52.19	ug/l	99
26) 2,2-Dichloropropane	3.76	77	42569	11.09	ug/l	92
27) cis-1,2-Dichloroethene	3.62	96	38924	9.26	ug/l	94
28) Bromochloromethane	3.89	49	27921	11.64	ug/l	# 96
29) Tetrahydrofuran	4.24	42	35774	48.77	ug/l	97
30) Chloroform	4.02	83	79368	9.74	ug/l	99
31) Cyclohexane	3.86	56	48638	9.52	ug/l	98
32) 1,1,1-Trichloroethane	4.27	97	58794	10.17	ug/l	91
36) 1,1-Dichloropropene	4.46	75	54578	9.31	ug/l	91
37) Ethyl Acetate	4.28	43	31874	9.22	ug/l	92
38) Carbon Tetrachloride	4.16	117	66287	10.64	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	55272	9.12	ug/l	98
40) Benzene	4.80	78	125014	9.11	ug/l	98
41) Methacrylonitrile	4.92	41	15824	9.04	ug/l	94
42) 1,2-Dichloroethane	5.11	62	57045	9.68	ug/l	99
43) Isopropyl Acetate	7.11	43	44756	9.55	ug/l #	89
44) Trichloroethene	5.67	130	41443	9.69	ug/l	97
45) 1,2-Dichloropropane	6.40	63	37624	9.43	ug/l	96
46) Dibromomethane	6.25	93	27338	9.08	ug/l	94
47) Bromodichloromethane	6.54	83	63327	9.53	ug/l	95
48) Methyl methacrylate	6.87	41	27888	9.41	ug/l #	89
49) 1,4-Dioxane	6.86	88	3883	189.97	ug/l	90
51) 4-Methyl-2-Pentanone	8.40	43	164682	50.62	ug/l	97
52) Toluene	7.77	92	97149	9.97	ug/l	96
53) t-1,3-Dichloropropene	8.42	75	62358	9.82	ug/l	98
54) cis-1,3-Dichloropropene	7.45	75	70178	9.62	ug/l	98
55) 1,1,2-Trichloroethane	8.64	97	33058	9.33	ug/l	97
56) Ethyl methacrylate	8.76	69	41576	9.28	ug/l	96
57) 1,3-Dichloropropane	9.00	76	55432	8.99	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.78	63	16536	53.38	ug/l	100
59) 2-Hexanone	9.63	43	127760	50.15	ug/l	96
60) Dibromochloromethane	8.86	129	46590	9.25	ug/l	96
61) 1,2-Dibromoethane	9.13	107	36768	8.70	ug/l	88
64) Tetrachloroethene	8.30	164	41825	9.93	ug/l	97
65) Chlorobenzene	9.94	112	111901	9.90	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.07	131	45588	10.32	ug/l	92
67) Ethyl Benzene	10.04	91	205401	10.34	ug/l	100
68) m/p-Xylenes	10.26	106	165174	22.42	ug/l	85
69) o-Xylene	10.83	106	79998	9.97	ug/l	92
70) Styrene	10.90	104	122342	10.17	ug/l	95
71) Bromoform	10.88	173	29165	9.60	ug/l #	93
73) Isopropylbenzene	11.23	105	243875	10.29	ug/l	99
74) N-amyl acetate	11.47	43	83901	9.49	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.78	83	55270	9.73	ug/l	95
76) 1,2,3-Trichloropropane	11.88	75	42085	10.16	ug/l	86
77) Bromobenzene	11.59	156	59082	10.00	ug/l	92
78) n-propylbenzene	11.68	91	295396	10.43	ug/l	93
79) 2-Chlorotoluene	11.81	91	170677	10.20	ug/l	96
80) 1,3,5-Trimethylbenzene	11.91	105	204537	10.41	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.96	75	25183	9.60	ug/l	97
82) 4-Chlorotoluene	11.99	91	180233	10.21	ug/l	95
83) tert-Butylbenzene	12.21	119	200073	10.18	ug/l	97
84) 1,2,4-Trimethylbenzene	12.28	105	212608	10.43	ug/l	92
85) sec-Butylbenzene	12.38	105	272894	10.25	ug/l	93
86) p-Isopropyltoluene	12.54	119	224174	10.10	ug/l	97
87) 1,3-Dichlorobenzene	12.56	146	115428	10.60	ug/l	96
88) 1,4-Dichlorobenzene	12.65	146	105630	10.10	ug/l	97
89) n-Butylbenzene	12.91	91	240956	10.42	ug/l	93
90) Hexachloroethane	12.99	117	52773	9.86	ug/l	78
91) 1,2-Dichlorobenzene	13.02	146	109840	10.39	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.71	75	10265	9.48	ug/l	97

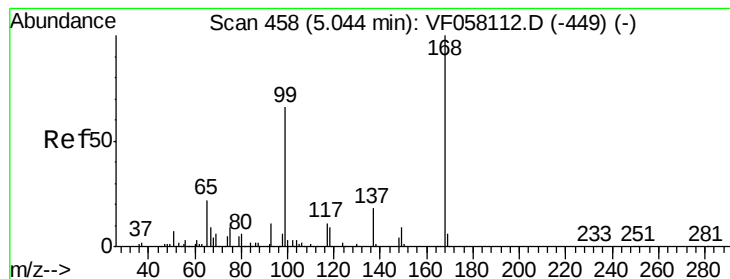
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QLast Update : Thu Jun 07 05:56:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	76883	10.37	ug/l	90
94) Hexachlorobutadiene	14.26	225	43459	10.15	ug/l	97
95) Naphthalene	14.52	128	148335	9.37	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	62947	9.01	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

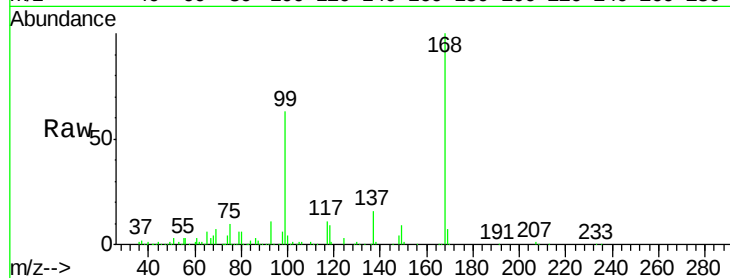
VSTDIC010

Tgt Ion: 168 Resp: 359983

Ion Ratio Lower Upper

168 100

99 62.7 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

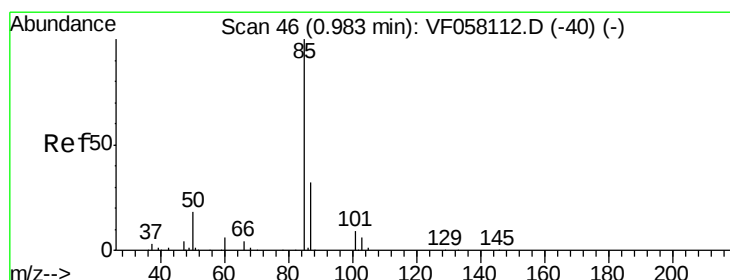
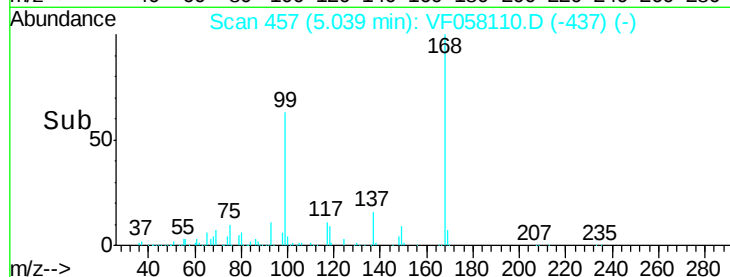
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50000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 9.16 ug/l

RT: 0.98 min Scan# 45

Delta R.T. -0.01 min

Lab File: VF058110.D

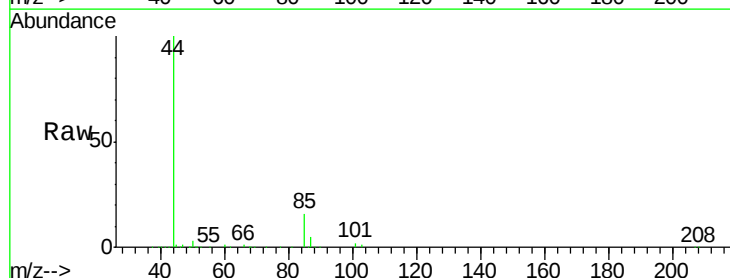
Acq: 6 Jun 2018 16:45

Tgt Ion: 85 Resp: 39820

Ion Ratio Lower Upper

85 100

87 30.9 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

12000

10000

8000

6000

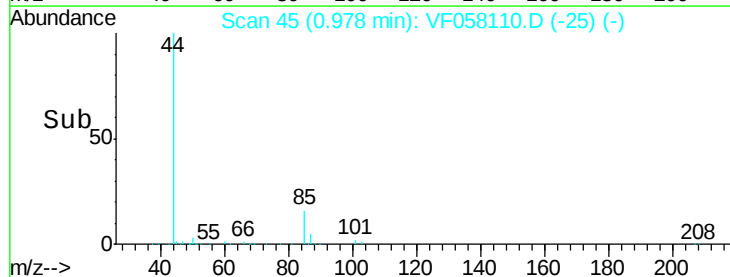
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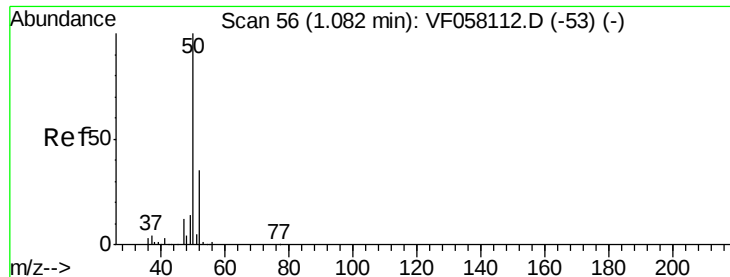
2000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 9.20 ug/l

RT: 1.08 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

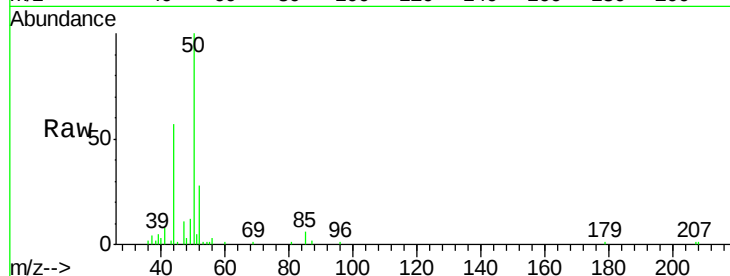
VSTDIC010

Tgt Ion: 50 Resp: 31703

Ion Ratio Lower Upper

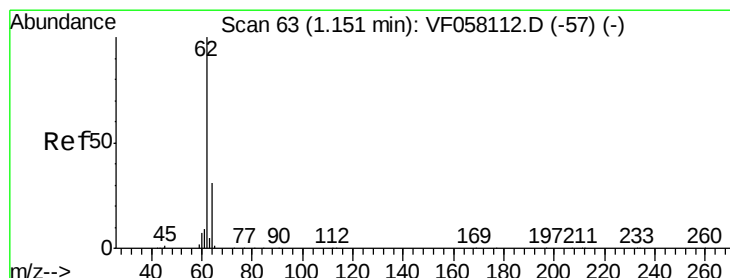
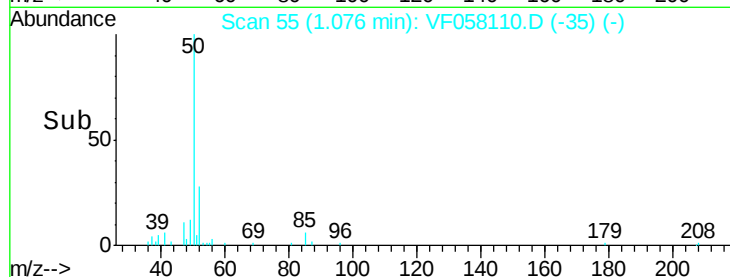
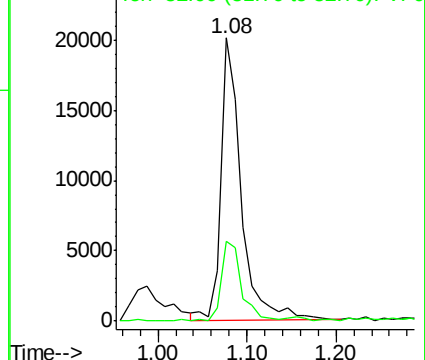
50 100

52 28.2 27.3 40.9



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 9.49 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF058110.D

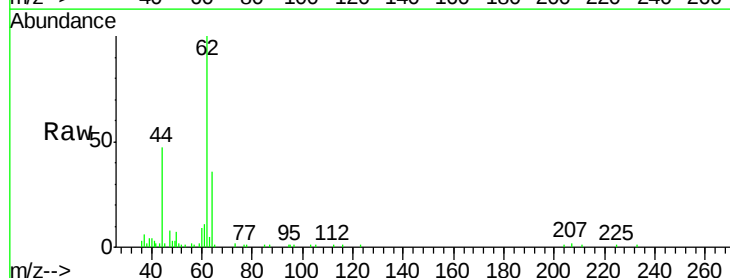
Acq: 6 Jun 2018 16:45

Tgt Ion: 62 Resp: 27303

Ion Ratio Lower Upper

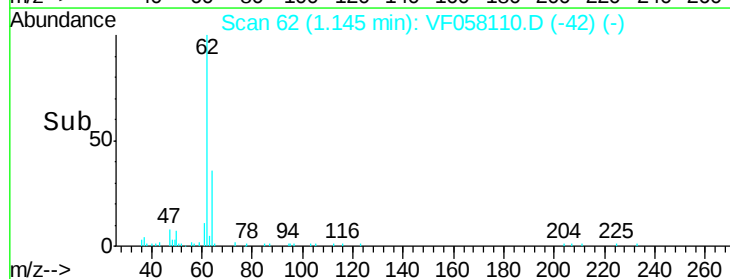
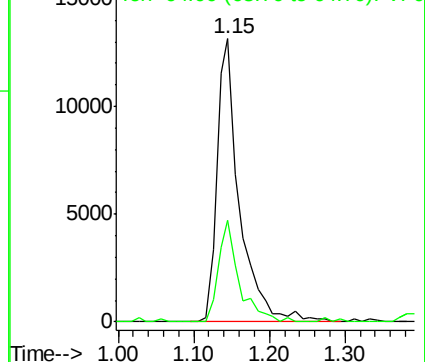
62 100

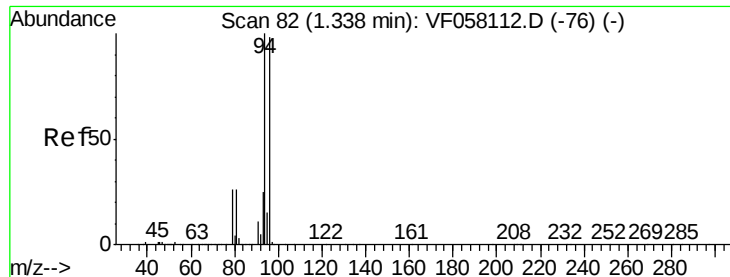
64 35.7 25.0 37.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 10.45 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

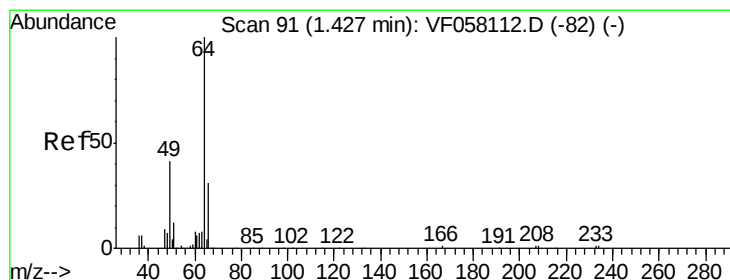
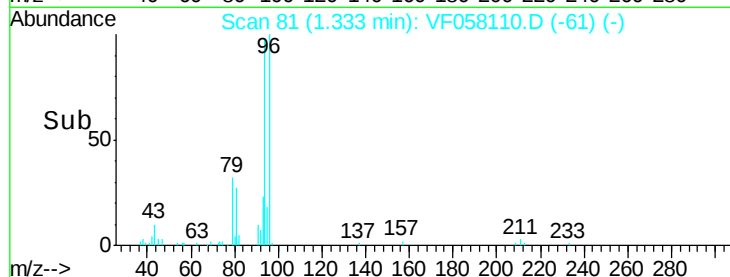
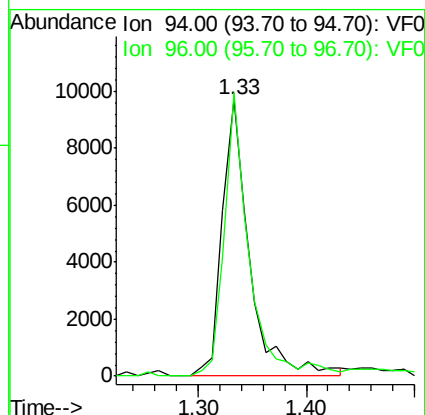
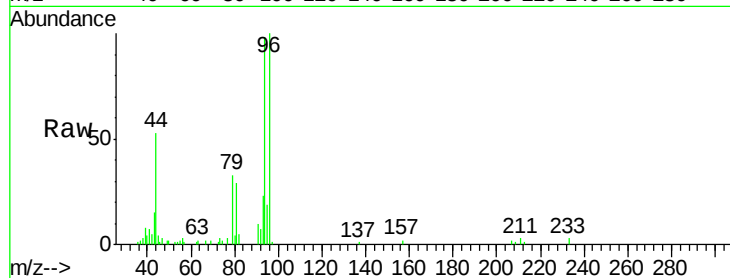
VSTDIC010

Tgt Ion: 94 Resp: 17009

Ion Ratio Lower Upper

94 100

96 102.3 78.6 117.8



#6

Chloroethane

Concen: 10.10 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF058110.D

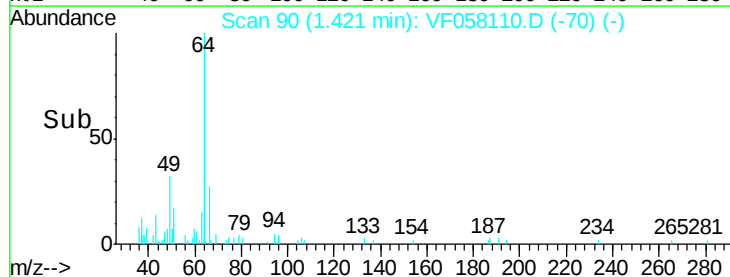
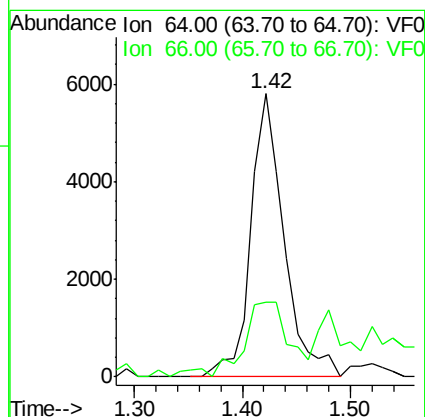
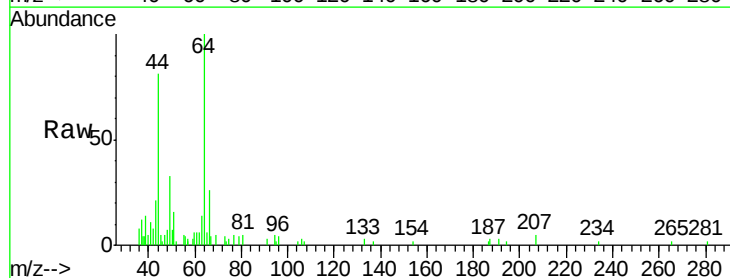
Acq: 6 Jun 2018 16:45

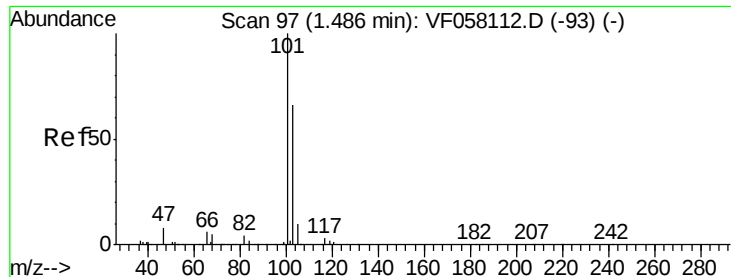
Tgt Ion: 64 Resp: 12377

Ion Ratio Lower Upper

64 100

66 26.3 24.9 37.3





#7

Trichlorofluoromethane

Concen: 3.67 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

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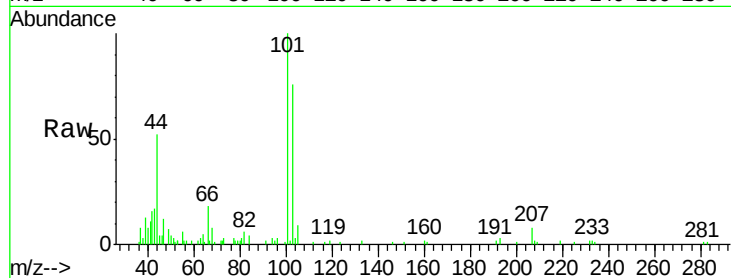
VSTDIC010

Tgt Ion:101 Resp: 16033

Ion Ratio Lower Upper

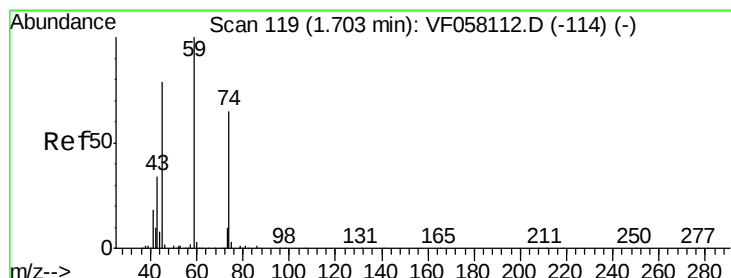
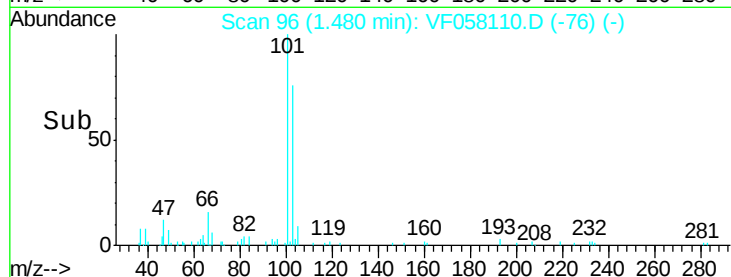
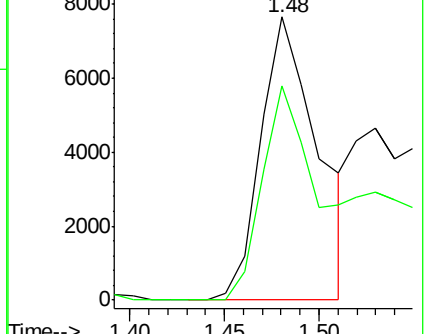
101 100

103 75.8 53.4 80.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 10.04 ug/l

RT: 1.70 min Scan# 118

Delta R.T. -0.01 min

Lab File: VF058110.D

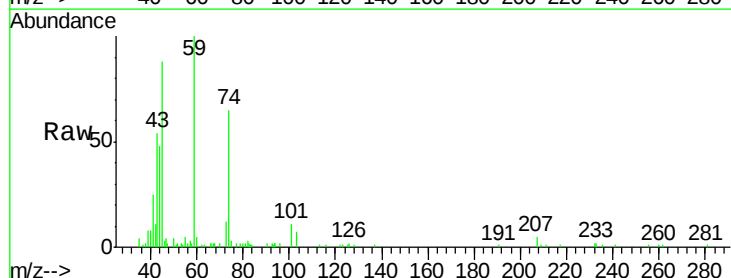
Acq: 6 Jun 2018 16:45

Tgt Ion: 74 Resp: 10676

Ion Ratio Lower Upper

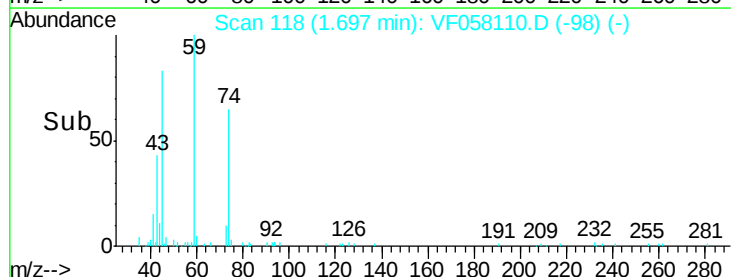
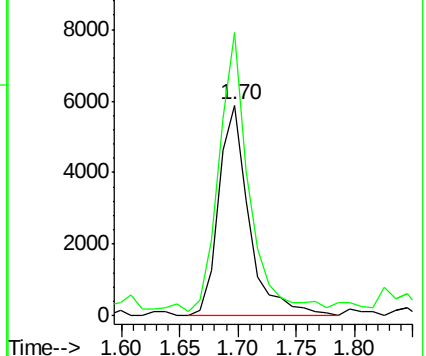
74 100

45 134.4 61.5 184.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.28 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

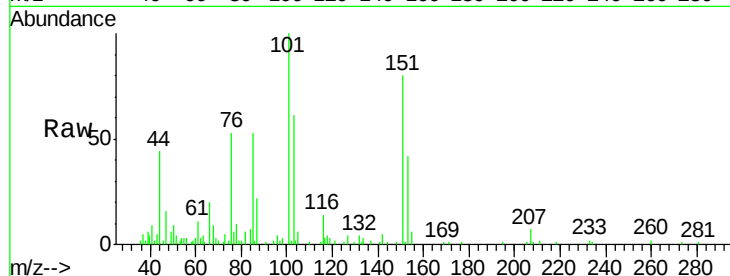
Tgt Ion:101 Resp: 30378

Ion Ratio Lower Upper

101 100

85 52.7 42.2 63.4

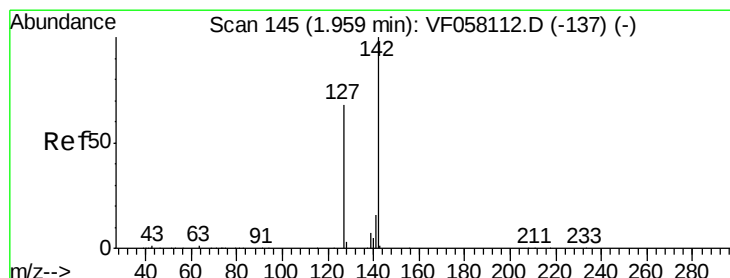
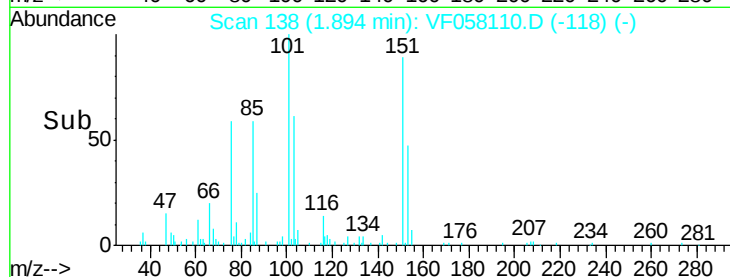
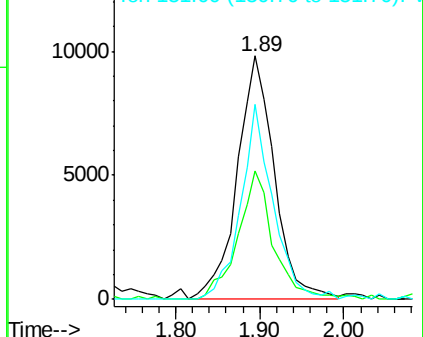
151 80.0 56.8 85.2



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: 10.00 ug/l

RT: 1.95 min Scan# 144

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

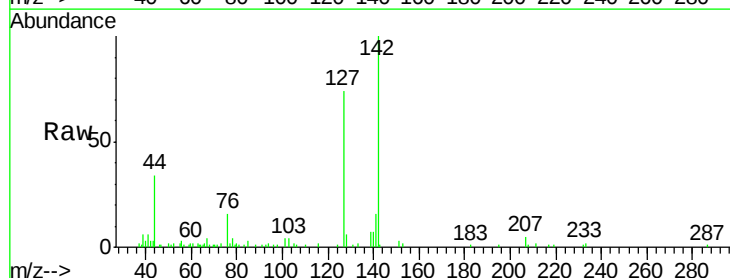
Tgt Ion:142 Resp: 47846

Ion Ratio Lower Upper

142 100

127 74.3 54.1 81.1

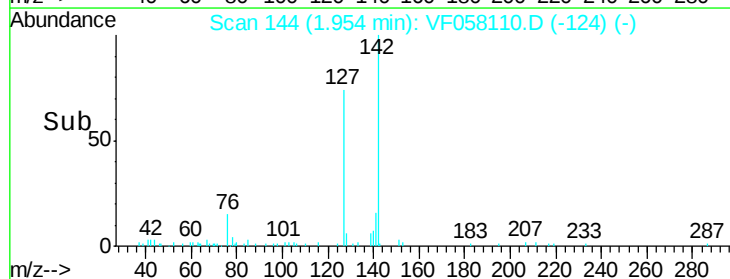
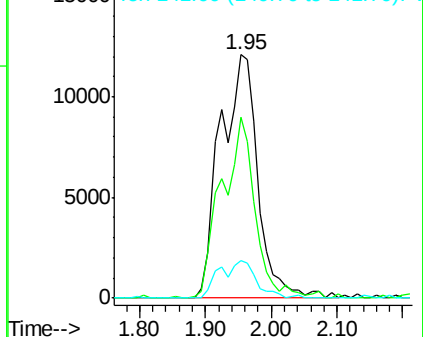
141 15.6 13.0 19.4

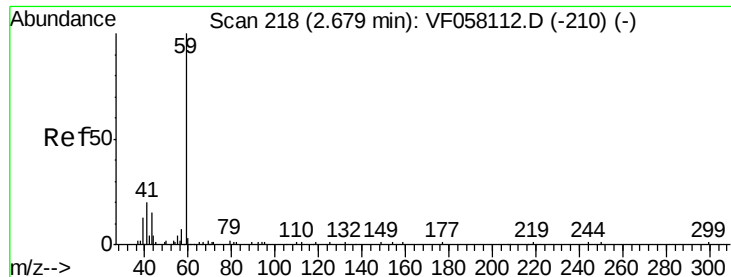


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#11

Tert butyl alcohol

Concen: 52.87 ug/l

RT: 2.67 min Scan# 217

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

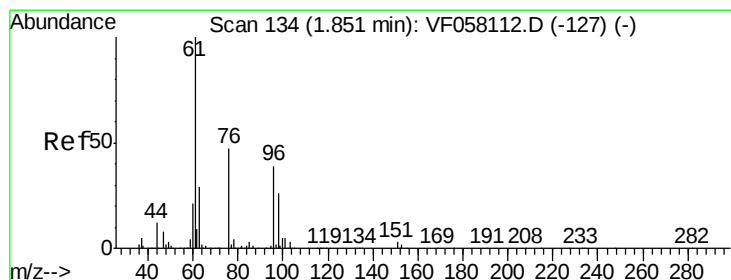
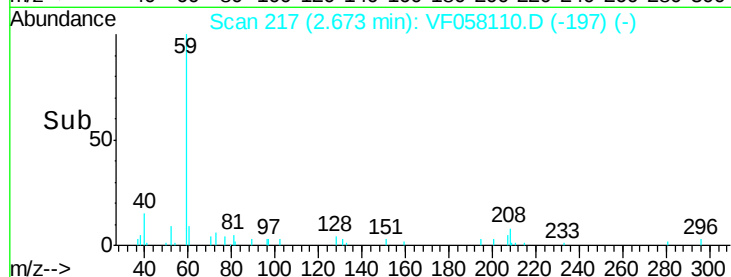
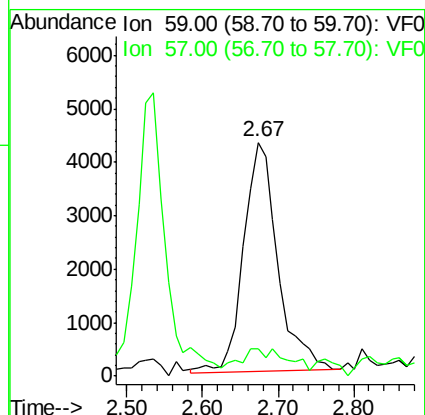
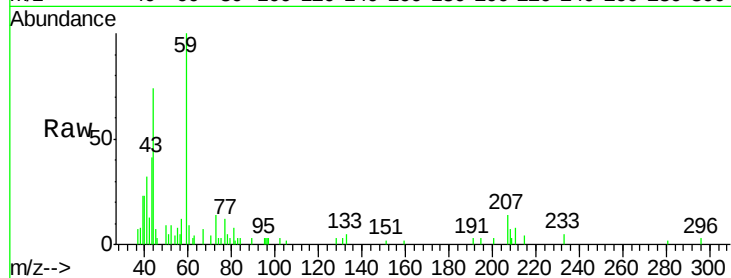
VSTDIC010

Tgt Ion: 59 Resp: 13527

Ion Ratio Lower Upper

59 100

57 11.8 8.7 13.1



#12

1,1-Dichloroethene

Concen: 9.52 ug/l

RT: 1.85 min Scan# 133

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

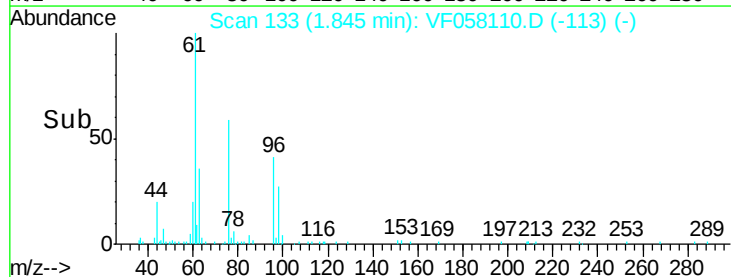
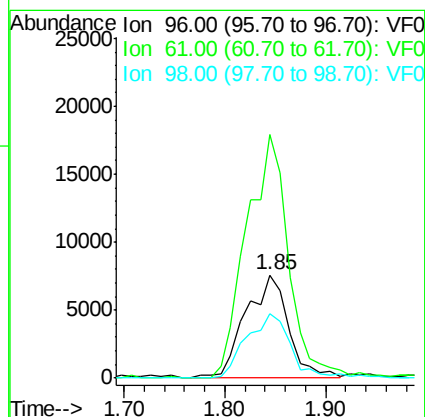
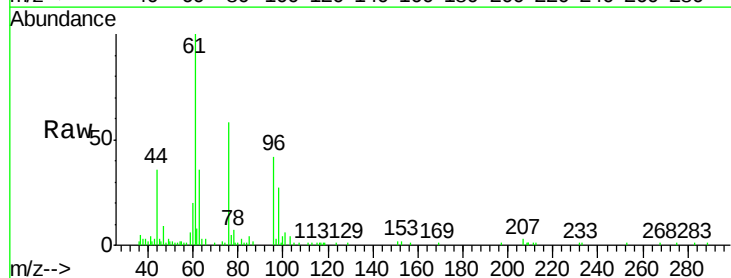
Tgt Ion: 96 Resp: 22311

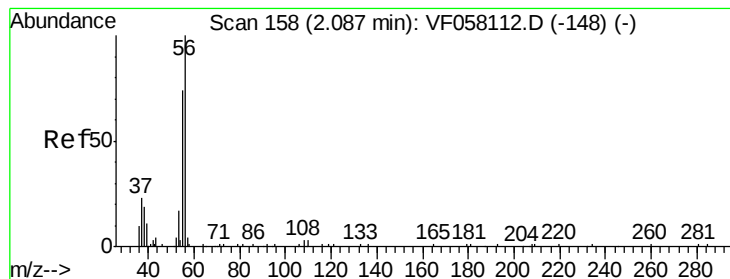
Ion Ratio Lower Upper

96 100

61 236.9 203.0 304.4

98 63.2 52.7 79.1





#13

Acrolein

Concen: 68.93 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

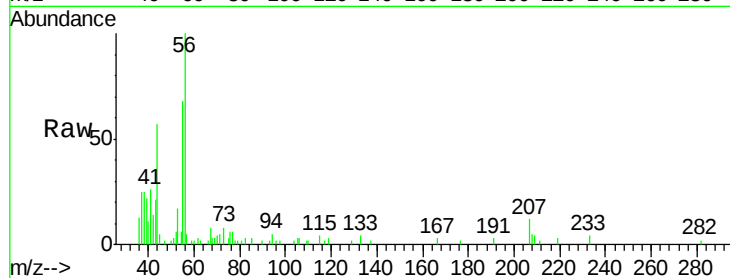
VSTDIC010

Tgt Ion: 56 Resp: 11472

Ion Ratio Lower Upper

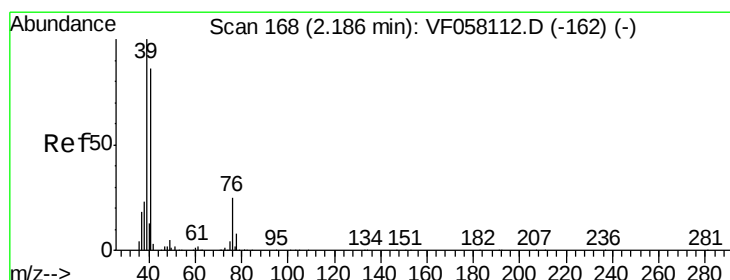
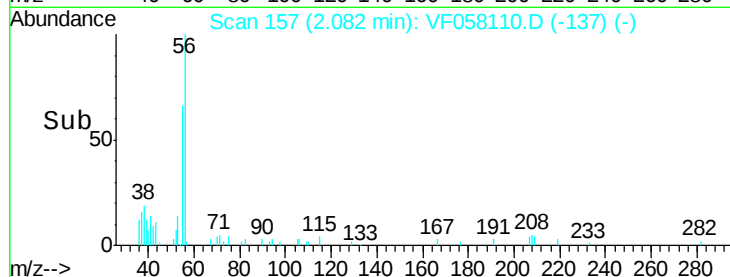
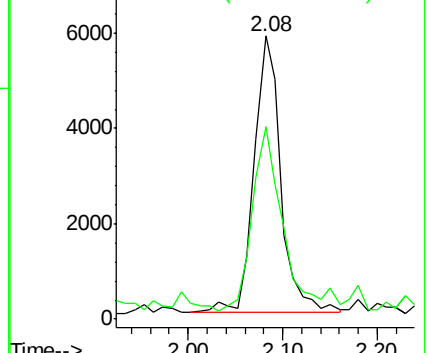
56 100

55 67.9 60.0 90.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 9.70 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

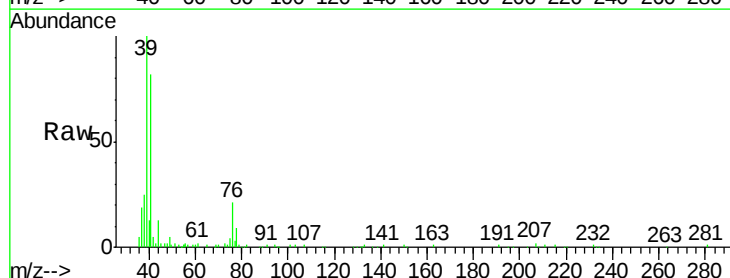
Tgt Ion: 41 Resp: 43430

Ion Ratio Lower Upper

41 100

39 122.6 93.5 140.3

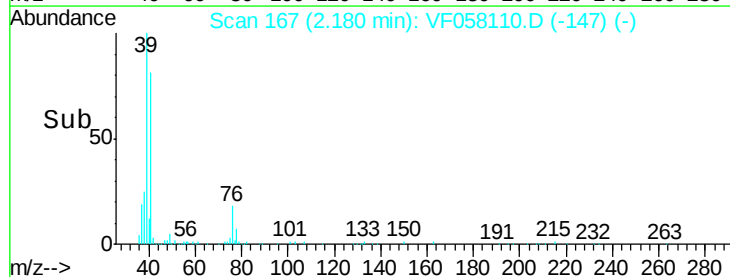
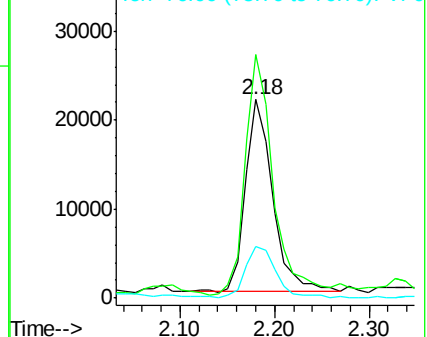
76 26.1 23.9 35.9

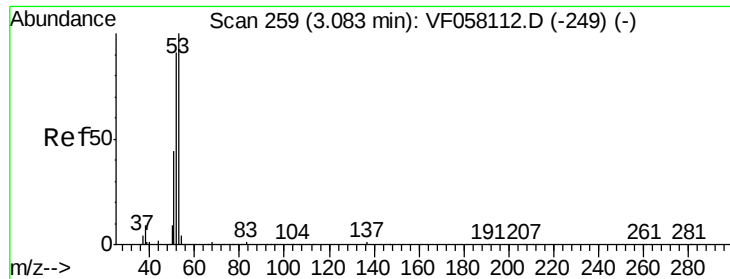


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 42.52 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

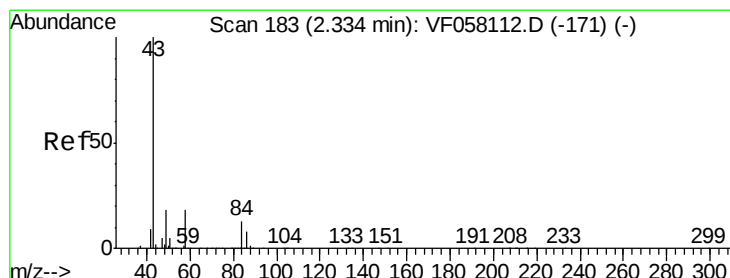
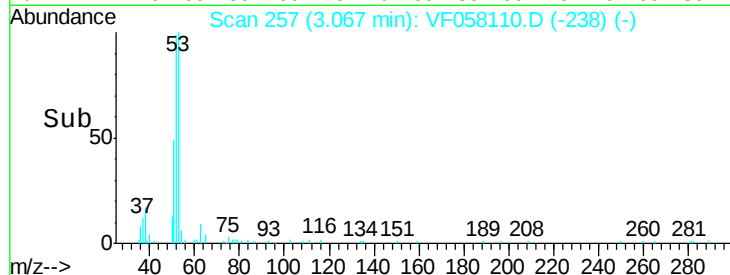
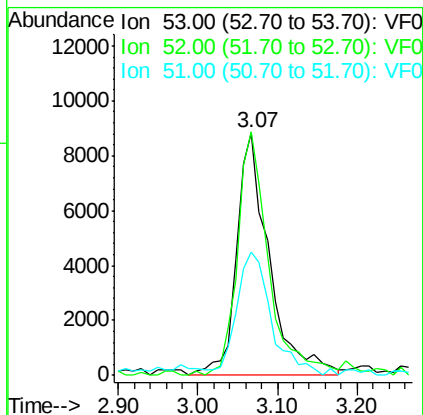
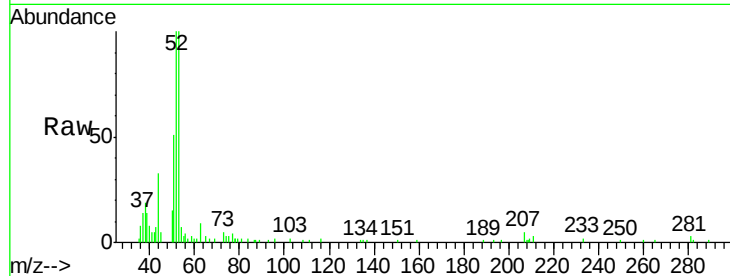
Tgt Ion: 53 Resp: 25147

Ion Ratio Lower Upper

53 100

52 100.2 73.2 109.8

51 50.7 35.6 53.4



#16

Acetone

Concen: 52.45 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.01 min

Lab File: VF058110.D

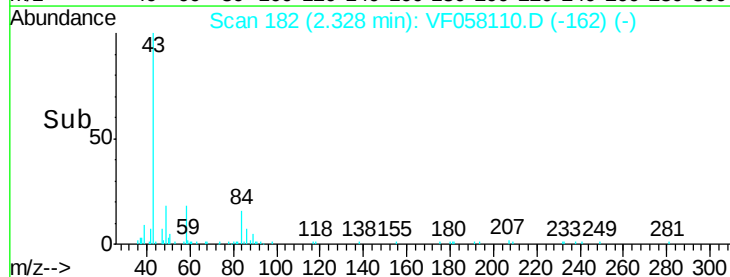
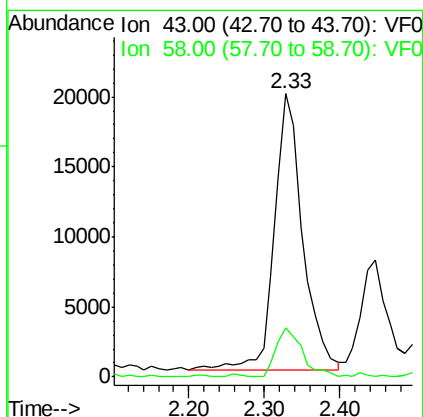
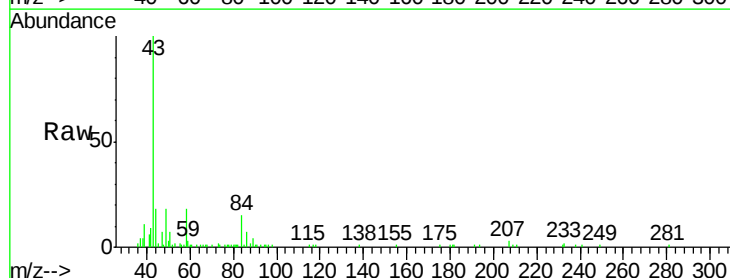
Acq: 6 Jun 2018 16:45

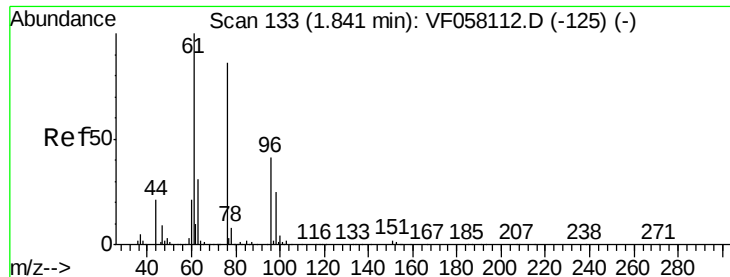
Tgt Ion: 43 Resp: 51384

Ion Ratio Lower Upper

43 100

58 17.6 14.4 21.6

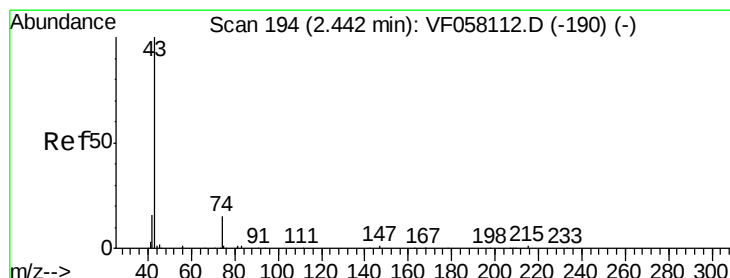
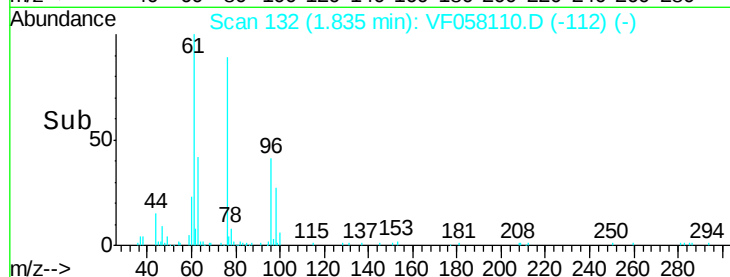
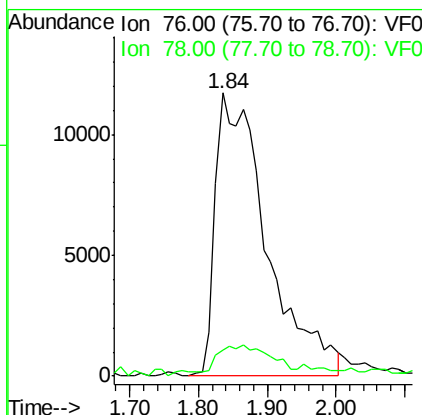
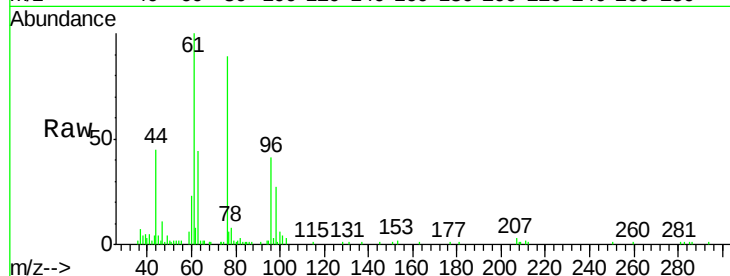




#17
Carbon Disulfide
Concen: 9.03 ug/l
RT: 1.84 min Scan# 132
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

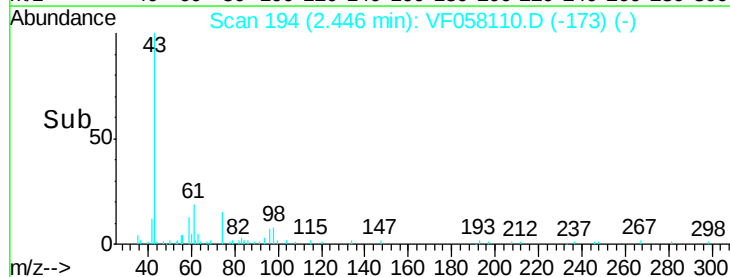
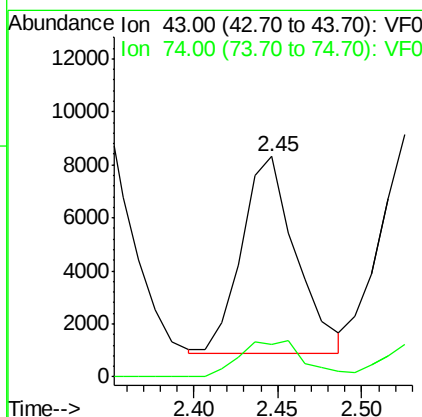
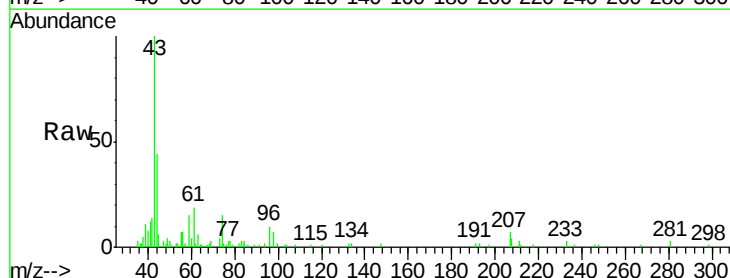
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

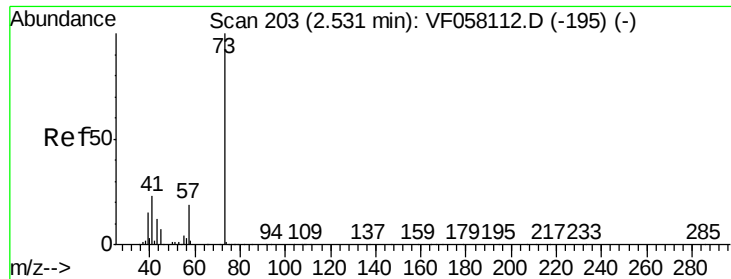
Tgt Ion: 76 Resp: 60702
Ion Ratio Lower Upper
76 100
78 9.2 7.8 11.8



#18
Methyl Acetate
Concen: 9.11 ug/l
RT: 2.45 min Scan# 194
Delta R.T. 0.00 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion: 43 Resp: 16640
Ion Ratio Lower Upper
43 100
74 14.9 10.9 16.3

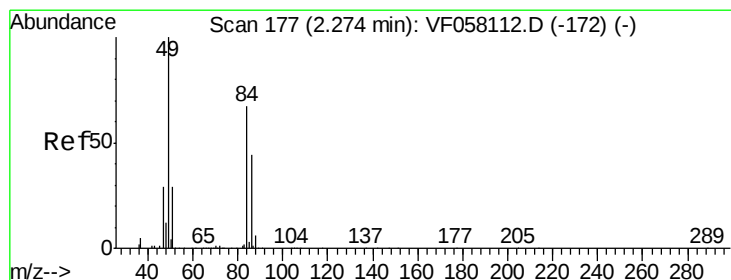
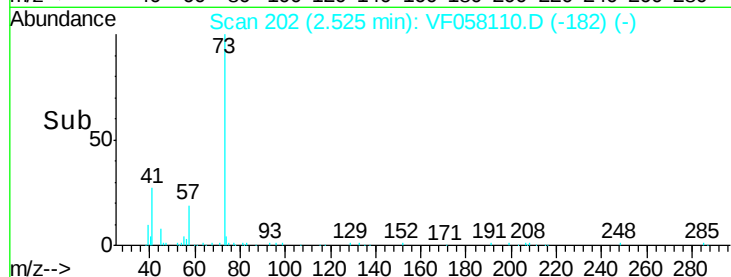
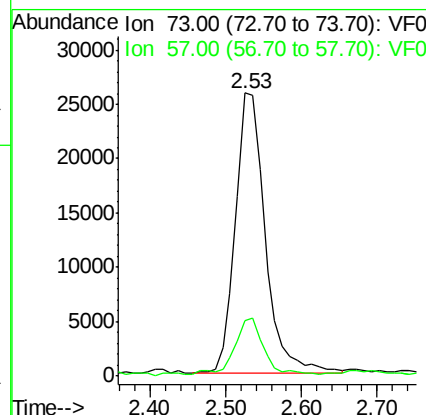
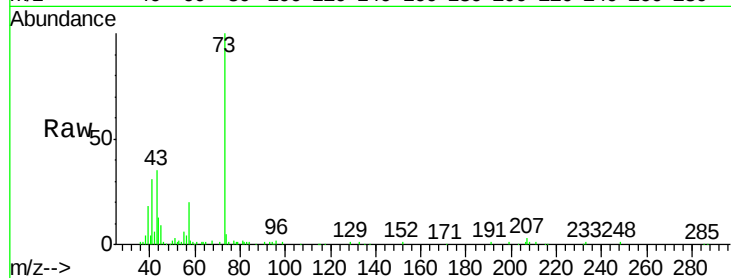




#19
Methyl tert-butyl Ether
Concen: 9.58 ug/l
RT: 2.53 min Scan# 202
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

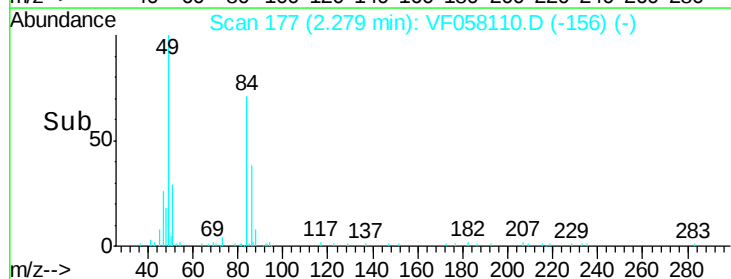
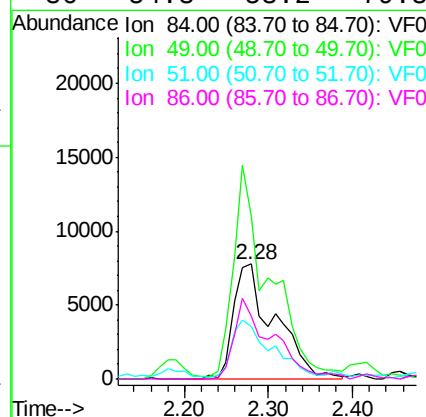
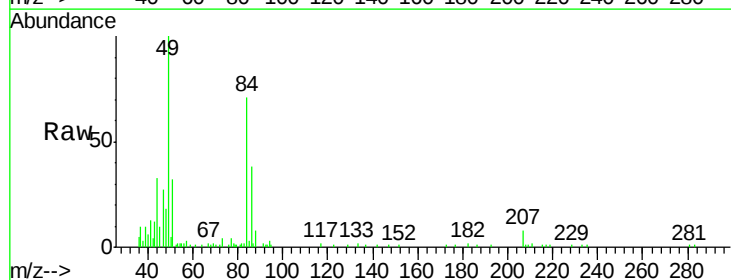
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

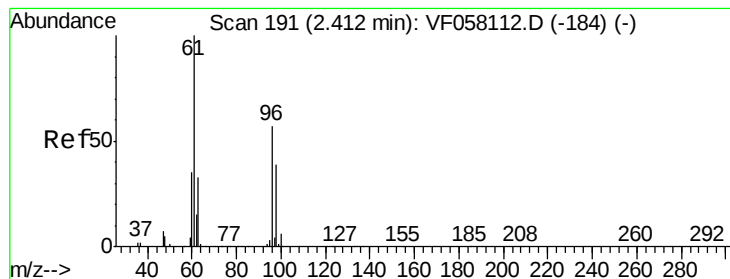
Tgt Ion: 73 Resp: 70257
Ion Ratio Lower Upper
73 100
57 19.6 15.0 22.4



#20
Methylene Chloride
Concen: 11.03 ug/l
RT: 2.28 min Scan# 177
Delta R.T. 0.00 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion: 84 Resp: 26452
Ion Ratio Lower Upper
84 100
49 141.7 121.0 181.4
51 45.3 35.8 53.6
86 54.3 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 9.77 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

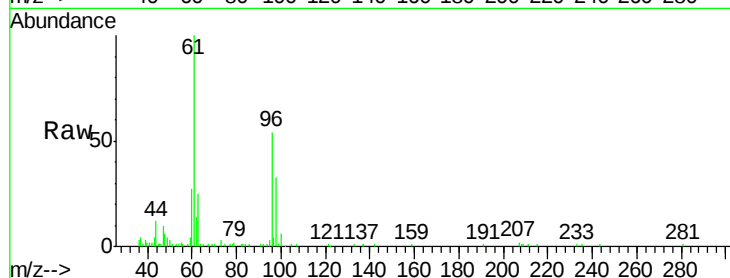
Tgt Ion: 96 Resp: 24698

Ion Ratio Lower Upper

96 100

61 185.0 139.4 209.2

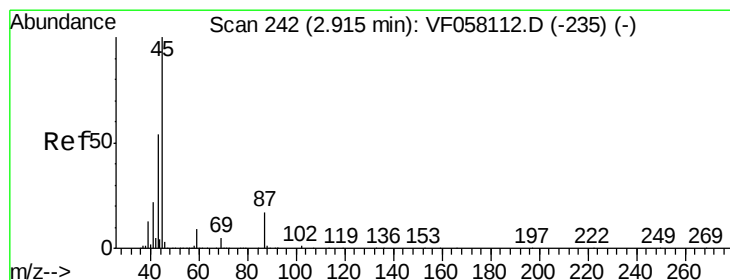
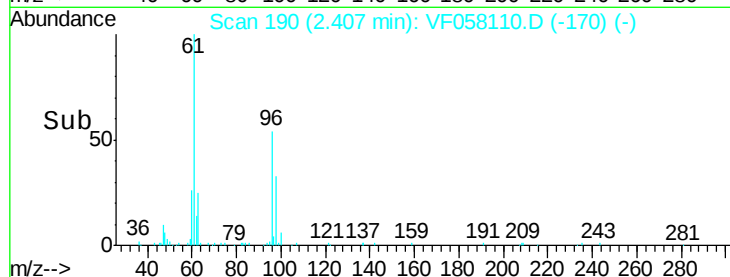
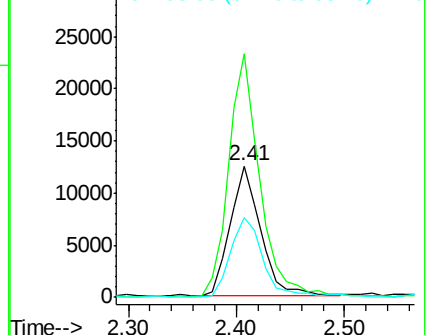
98 61.0 54.0 81.0



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: 10.11 ug/l

RT: 2.92 min Scan# 242

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Tgt Ion: 45 Resp: 88606

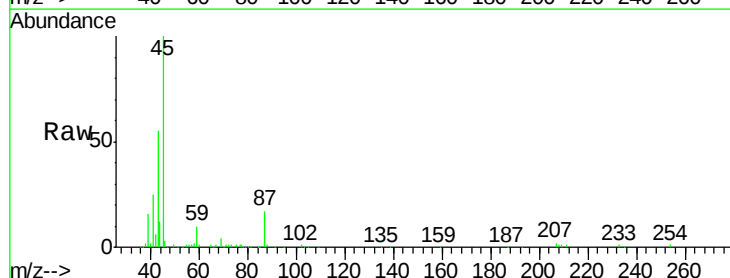
Ion Ratio Lower Upper

45 100

43 54.9 43.2 64.8

87 17.0 13.8 20.6

59 9.9 7.5 11.3

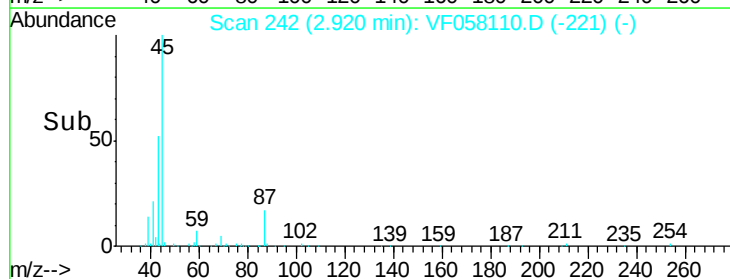
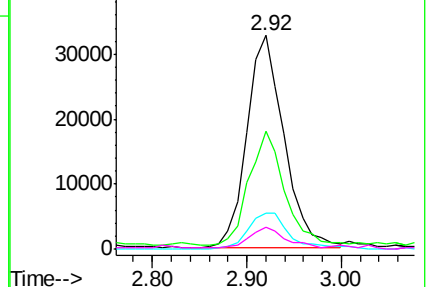


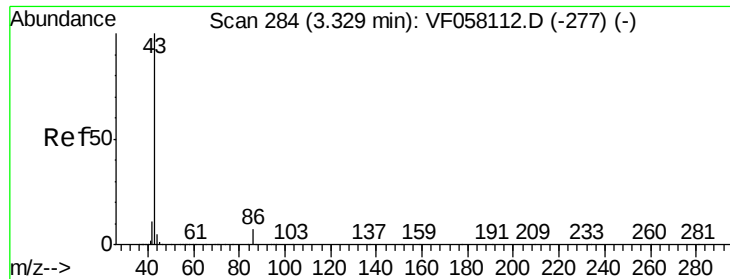
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 46.50 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

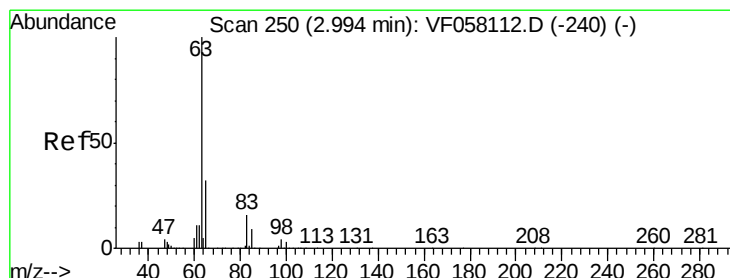
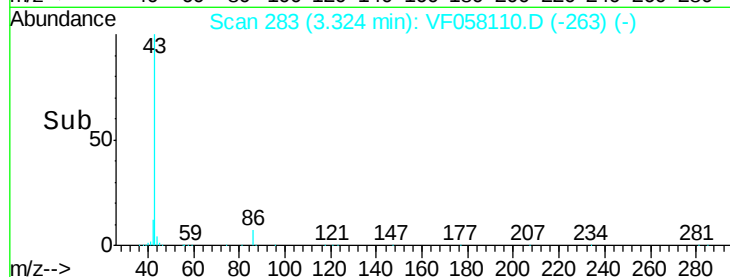
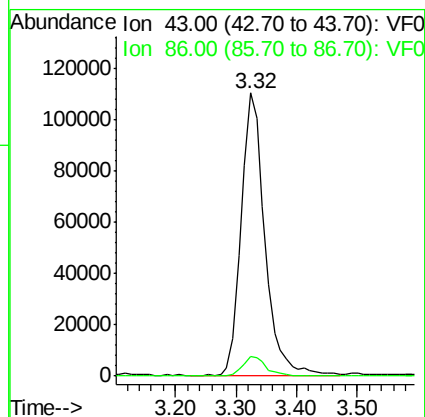
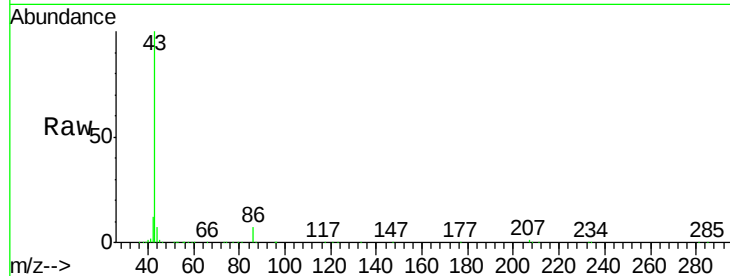
VSTDIC010

Tgt Ion: 43 Resp: 298690

Ion Ratio Lower Upper

43 100

86 6.8 6.0 9.0



#24

1,1-Dichloroethane

Concen: 10.14 ug/l

RT: 3.00 min Scan# 250

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

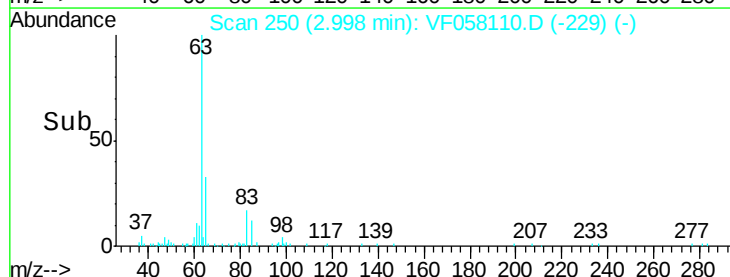
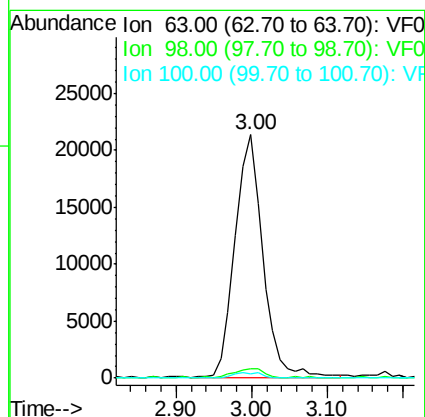
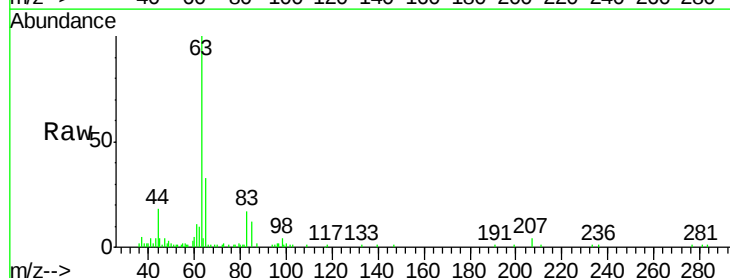
Tgt Ion: 63 Resp: 55081

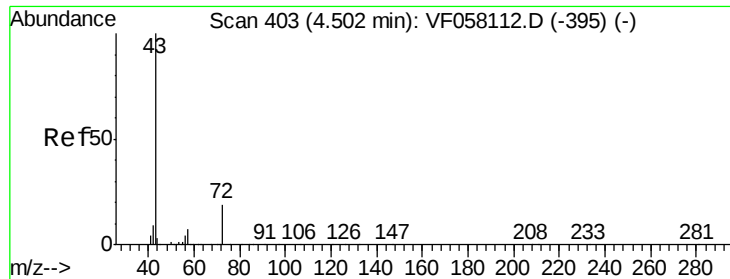
Ion Ratio Lower Upper

63 100

98 3.8 2.0 6.0

100 2.0 1.4 4.0





#25

2-Butanone

Concen: 52.19 ug/l

RT: 4.51 min Scan# 403

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

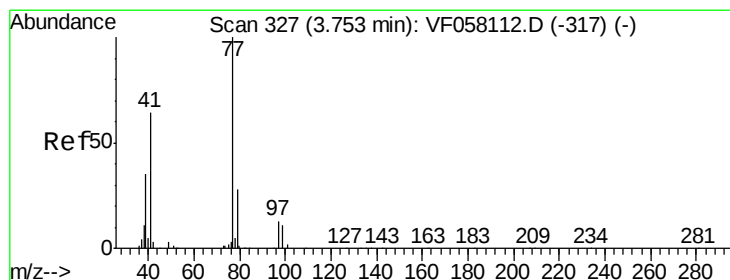
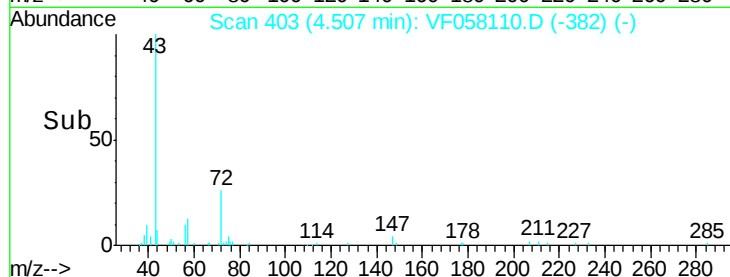
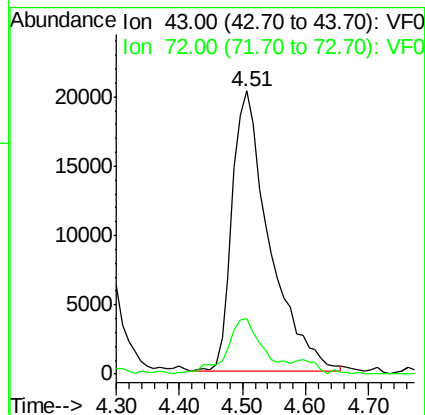
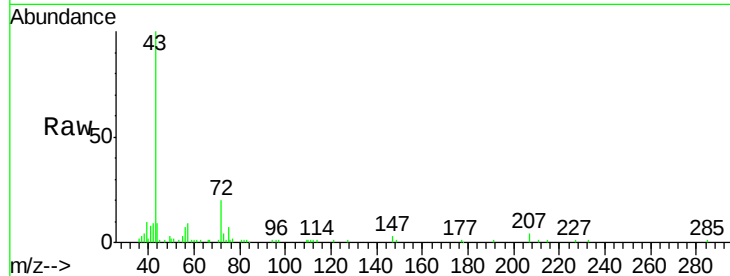
VSTDIC010

Tgt Ion: 43 Resp: 82942

Ion Ratio Lower Upper

43 100

72 19.7 16.1 24.1



#26

2,2-Dichloropropane

Concen: 11.09 ug/l

RT: 3.76 min Scan# 327

Delta R.T. 0.00 min

Lab File: VF058110.D

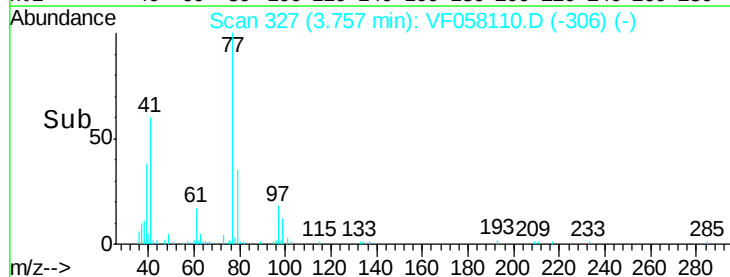
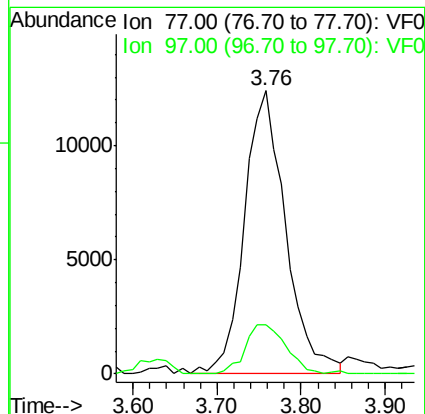
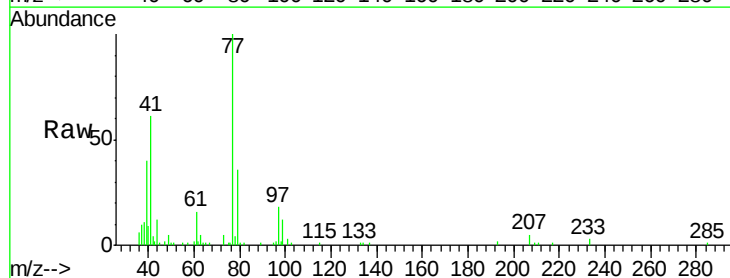
Acq: 6 Jun 2018 16:45

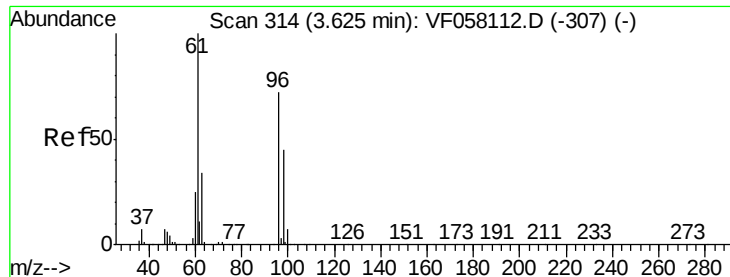
Tgt Ion: 77 Resp: 42569

Ion Ratio Lower Upper

77 100

97 17.6 7.2 21.6





#27

cis-1,2-Dichloroethene

Concen: 9.26 ug/l

RT: 3.62 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

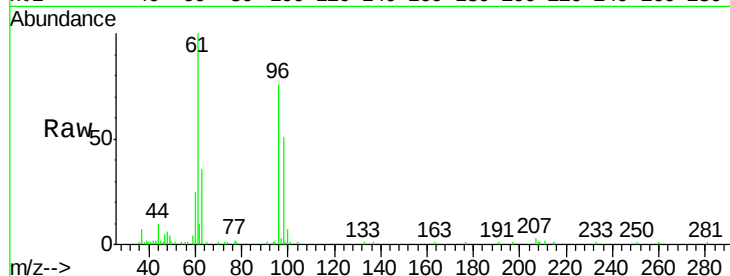
Tgt Ion: 96 Resp: 38924

Ion Ratio Lower Upper

96 100

61 132.3 0.0 278.6

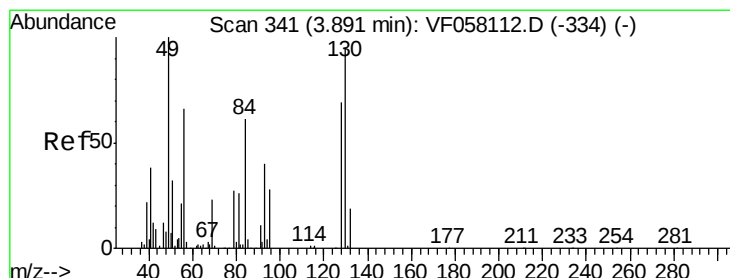
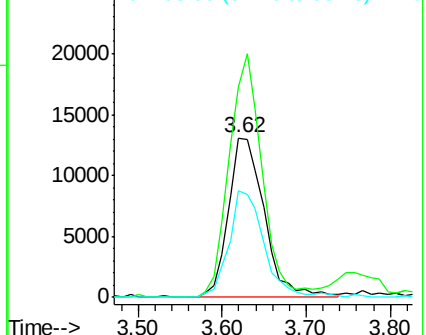
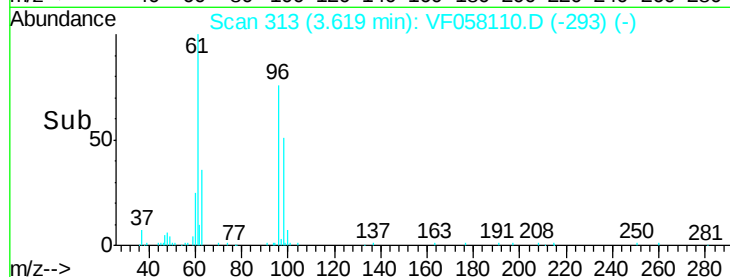
98 66.9 0.0 125.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane

Concen: 11.64 ug/l

RT: 3.89 min Scan# 340

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

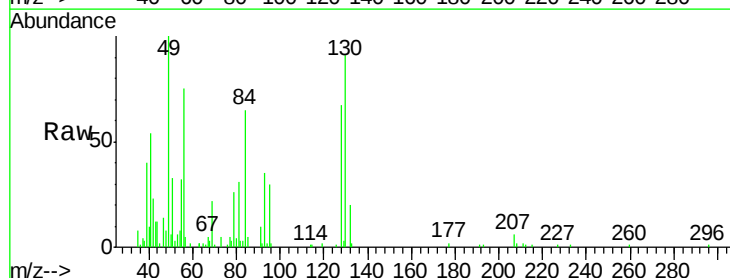
Tgt Ion: 49 Resp: 27921

Ion Ratio Lower Upper

49 100

129 2.8 0.0 0.0#

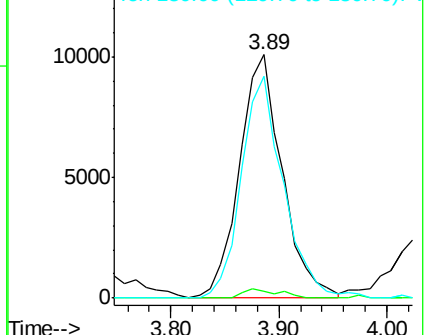
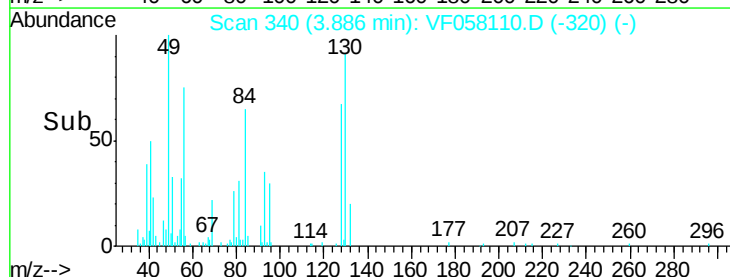
130 91.3 75.8 113.8

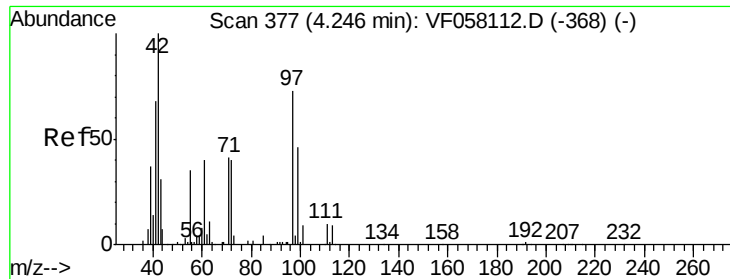


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

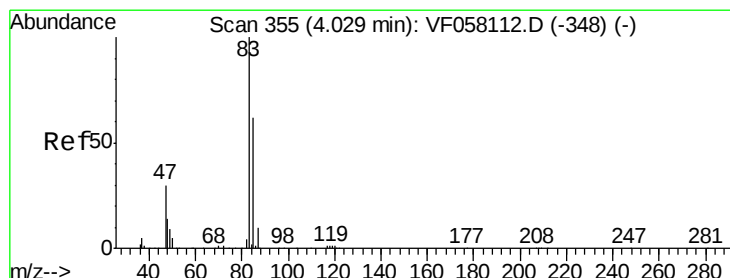
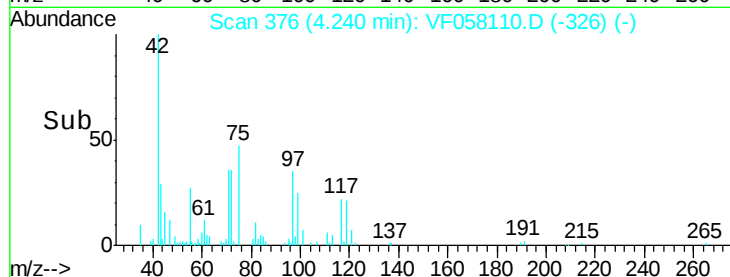
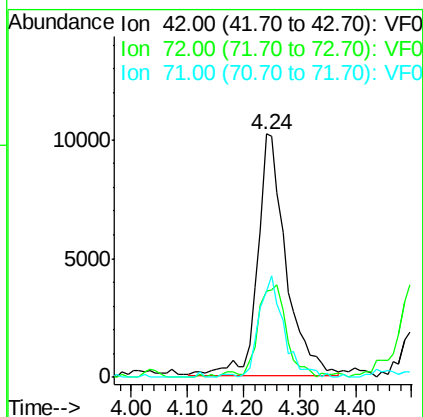
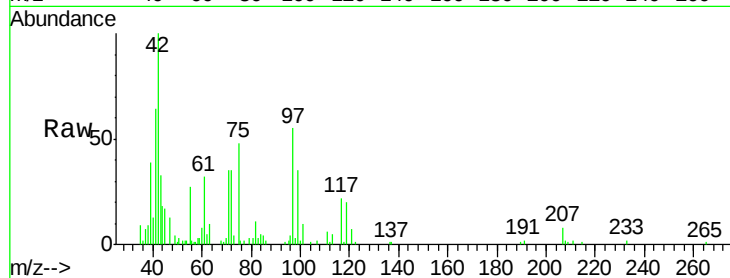




#29
Tetrahydrofuran
Concen: 48.77 ug/l
RT: 4.24 min Scan# 376
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

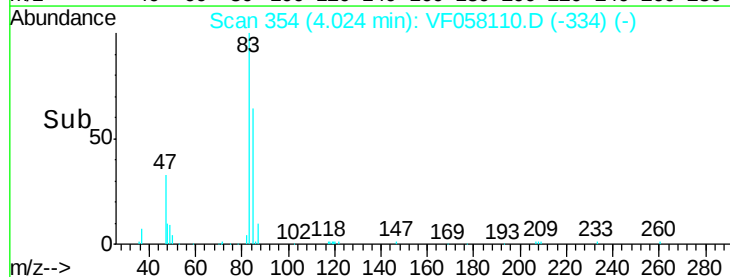
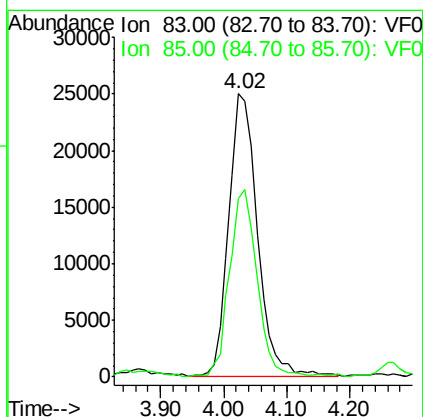
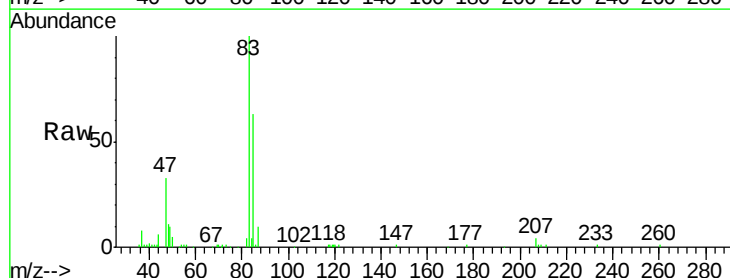
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

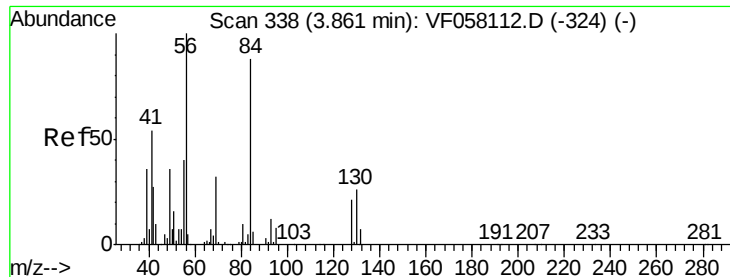
Tgt Ion: 42 Resp: 35774
Ion Ratio Lower Upper
42 100
72 37.3 30.5 45.7
71 36.3 31.5 47.3



#30
Chloroform
Concen: 9.74 ug/l
RT: 4.02 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion: 83 Resp: 79368
Ion Ratio Lower Upper
83 100
85 63.0 49.5 74.3





#31

Cyclohexane

Concen: 9.52 ug/l

RT: 3.86 min Scan# 337

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

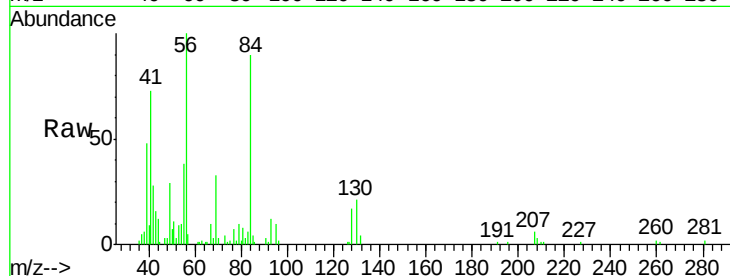
Tgt Ion: 56 Resp: 48638

Ion Ratio Lower Upper

56 100

69 33.0 25.9 38.9

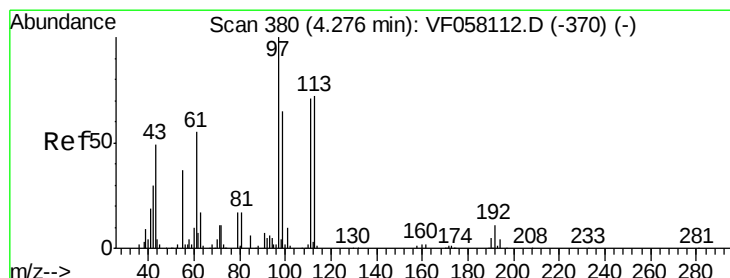
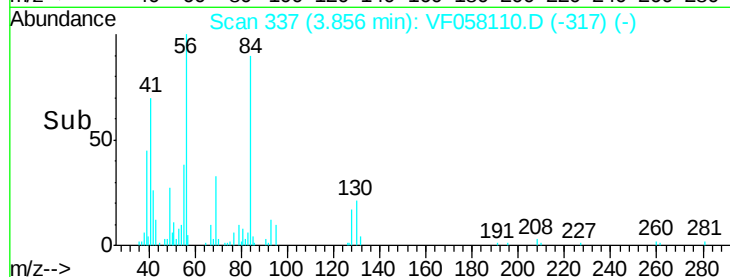
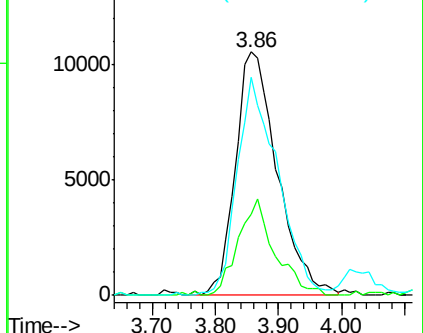
84 89.8 70.3 105.5



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: 10.17 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

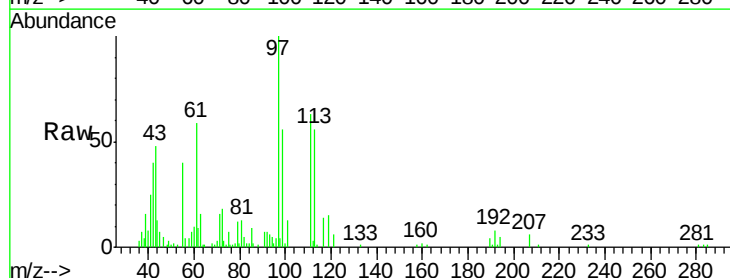
Tgt Ion: 97 Resp: 58794

Ion Ratio Lower Upper

97 100

99 55.7 52.0 78.0

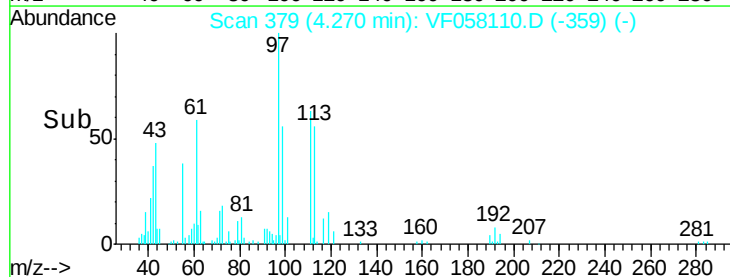
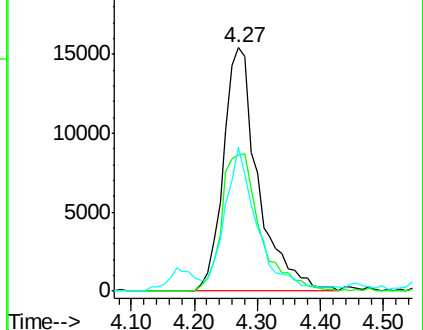
61 58.9 44.3 66.5

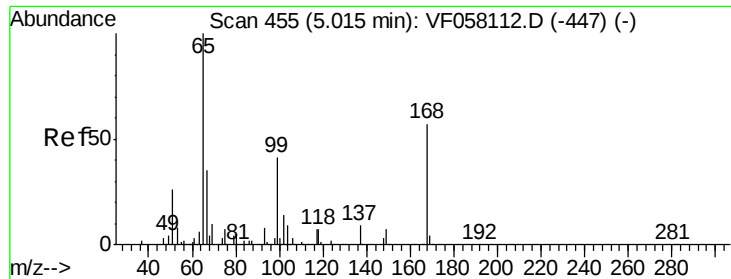


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

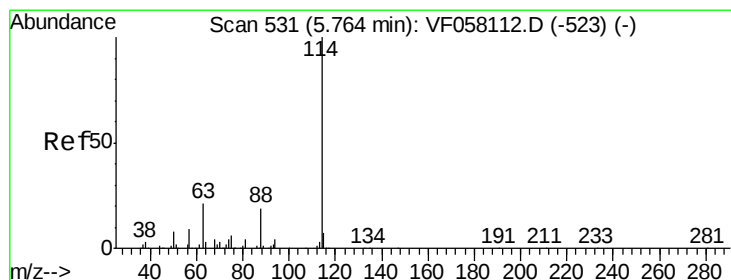
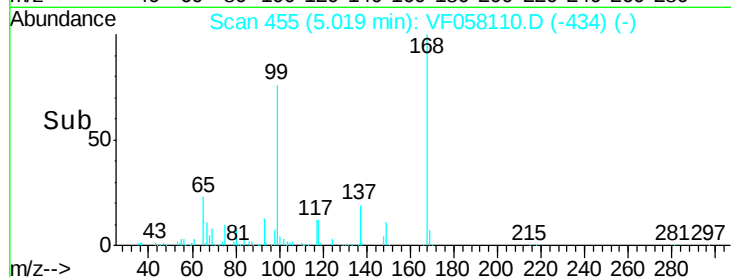
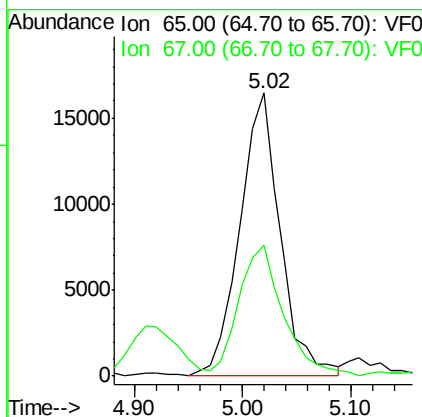
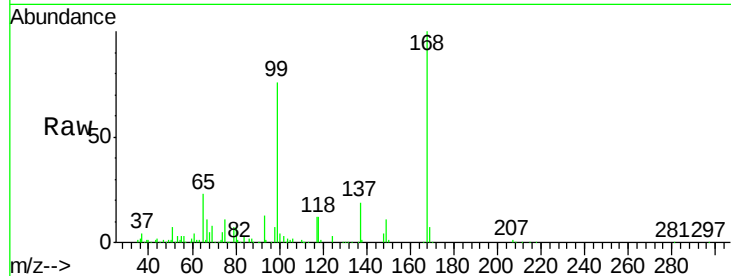




#33
 1,2-Dichloroethane-d4
 Concen: 9.62 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: VF058110.D
 Acq: 6 Jun 2018 16:45

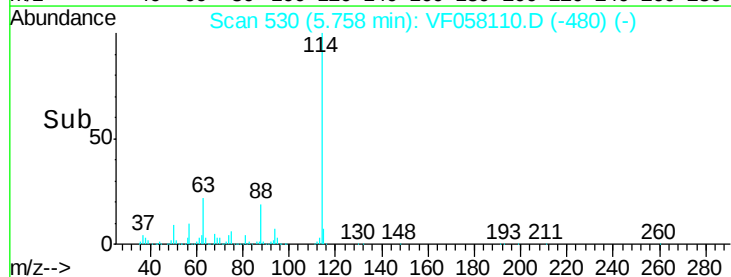
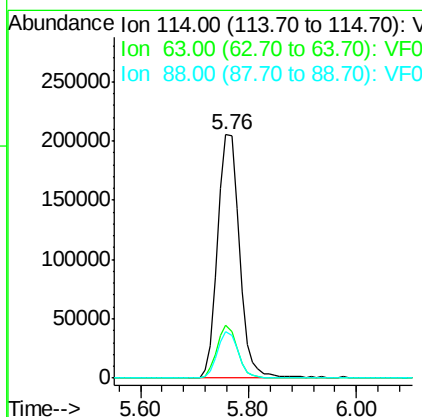
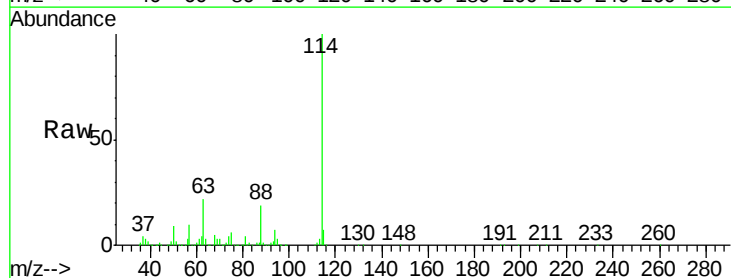
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion: 65 Resp: 43065
 Ion Ratio Lower Upper
 65 100
 67 46.3 0.0 97.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VF058110.D
 Acq: 6 Jun 2018 16:45

Tgt Ion: 114 Resp: 579615
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 41.6
 88 18.9 0.0 38.8





#35

Dibromofluoromethane

Concen: 8.85 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

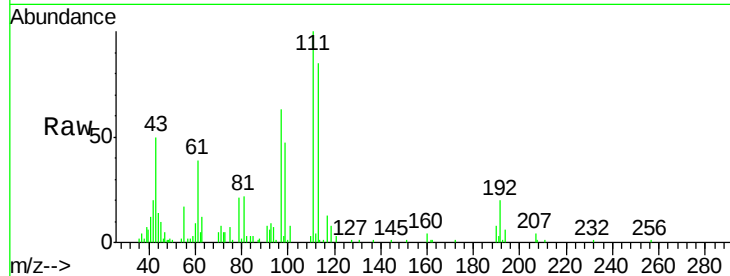
Tgt Ion: 113 Resp: 38028

Ion Ratio Lower Upper

113 100

111 118.3 81.3 121.9

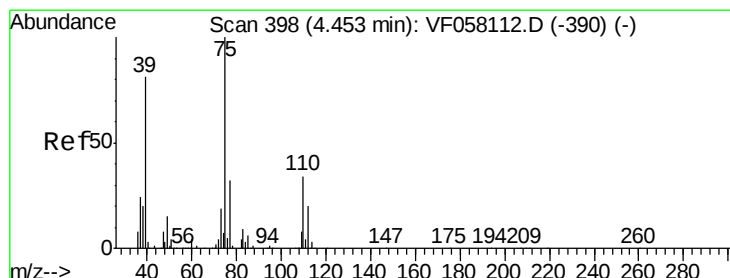
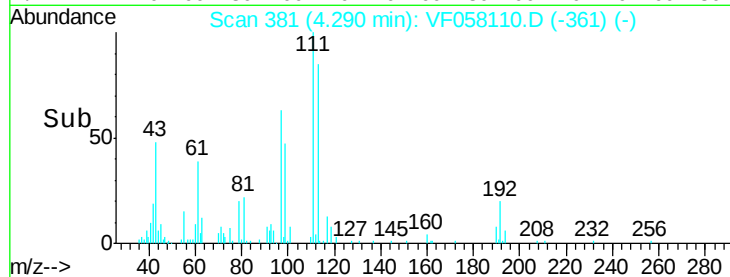
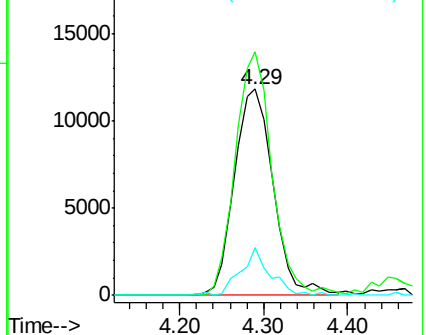
192 23.4 12.7 19.1#



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: 9.31 ug/l

RT: 4.46 min Scan# 398

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

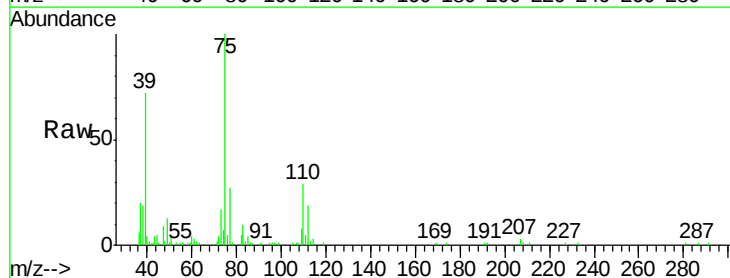
Tgt Ion: 75 Resp: 54578

Ion Ratio Lower Upper

75 100

110 28.6 17.0 50.9

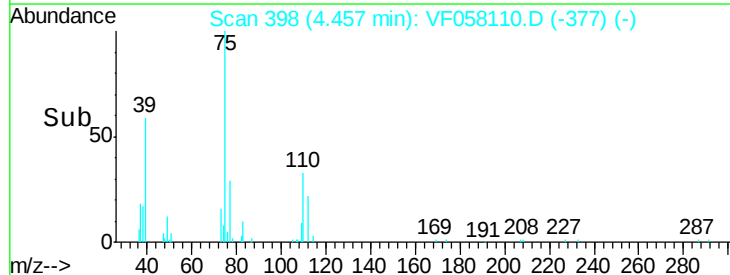
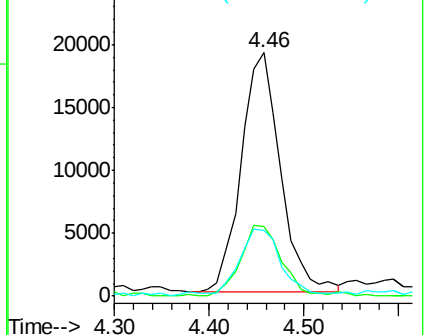
77 26.9 25.3 37.9

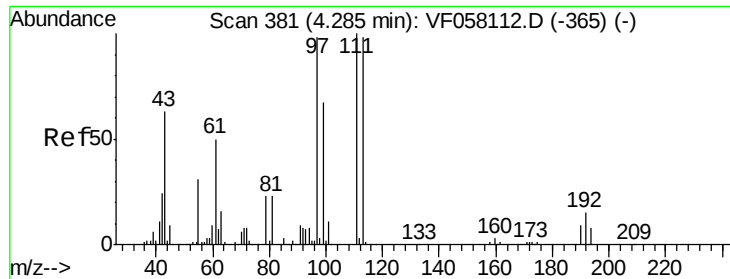


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

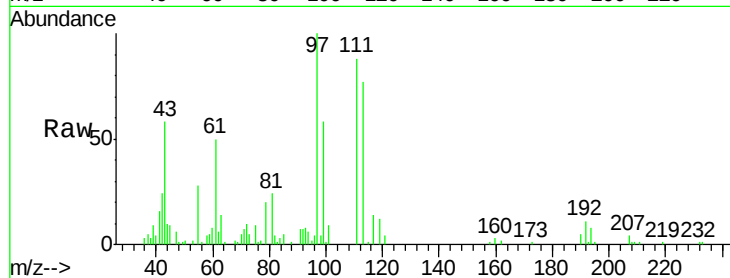




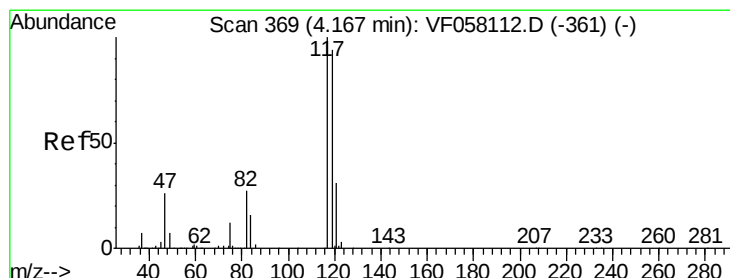
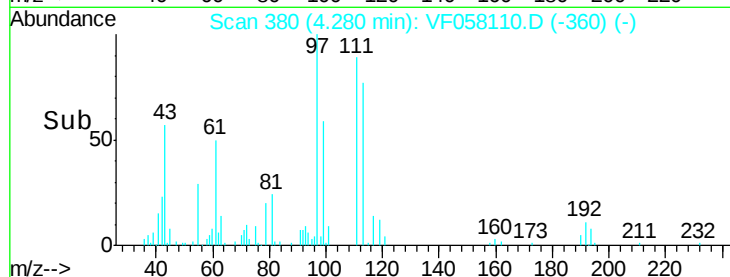
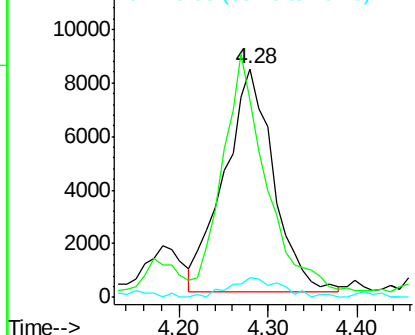
#37
Ethyl Acetate
Concen: 9.22 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion: 43 Resp: 31874
Ion Ratio Lower Upper
43 100
61 86.3 63.0 94.4
70 8.3 7.5 11.3

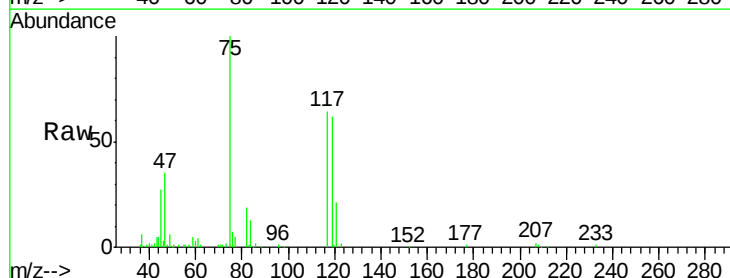


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

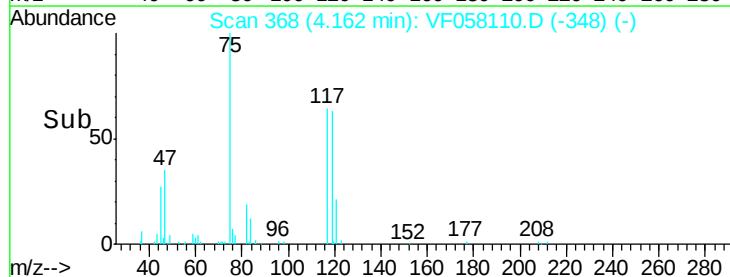
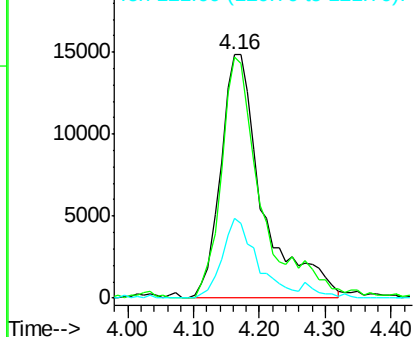


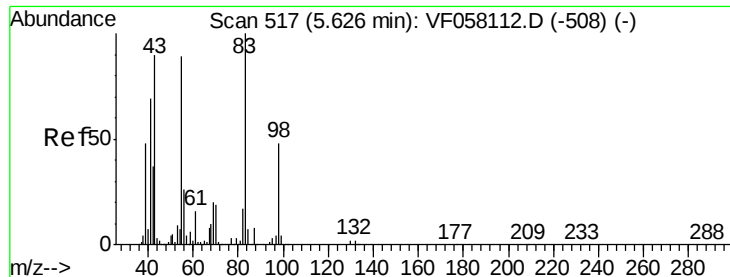
#38
Carbon Tetrachloride
Concen: 10.64 ug/l
RT: 4.16 min Scan# 368
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion: 117 Resp: 66287
Ion Ratio Lower Upper
117 100
119 99.1 75.7 113.5
121 32.9 24.8 37.2



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

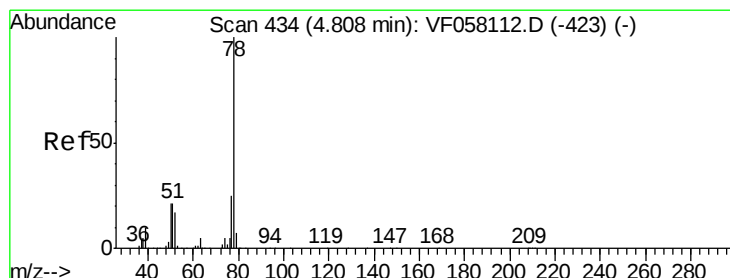
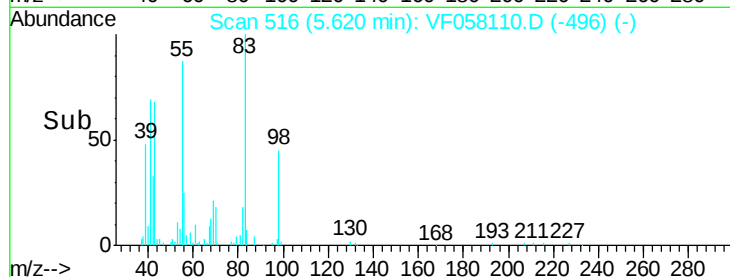
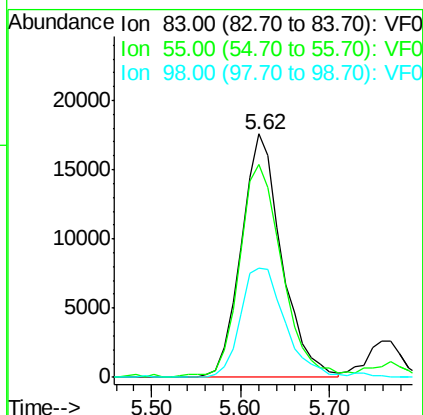
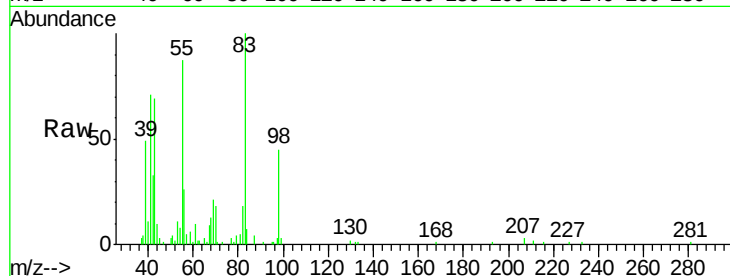




#39
Methylcyclohexane
Concen: 9.12 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

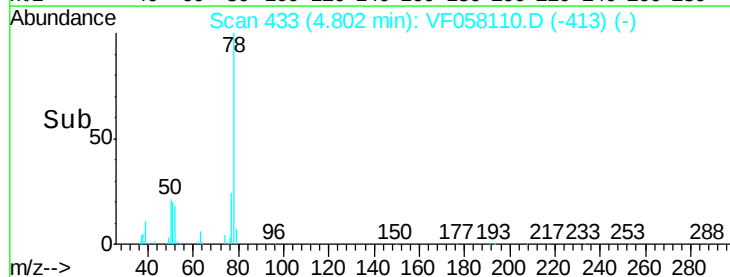
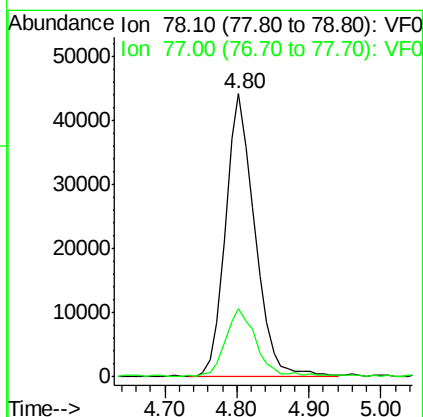
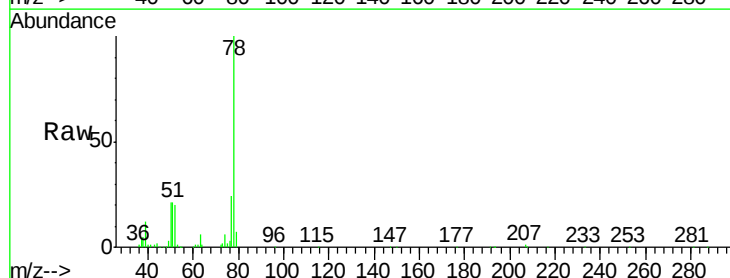
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

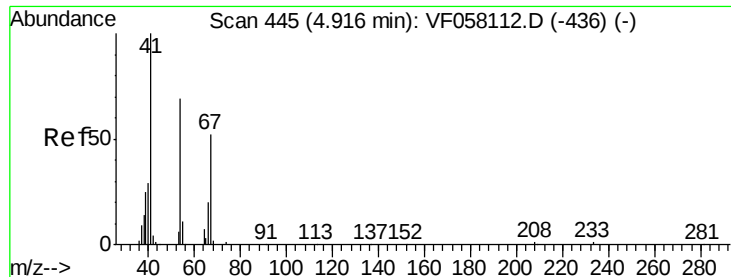
Tgt Ion: 83 Resp: 55272
Ion Ratio Lower Upper
83 100
55 87.3 71.0 106.4
98 44.7 38.1 57.1



#40
Benzene
Concen: 9.11 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion: 78 Resp: 125014
Ion Ratio Lower Upper
78 100
77 24.2 20.2 30.2

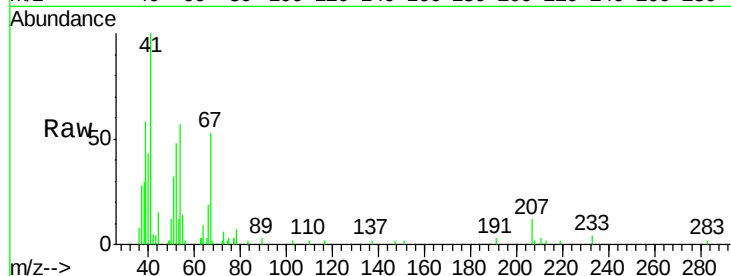




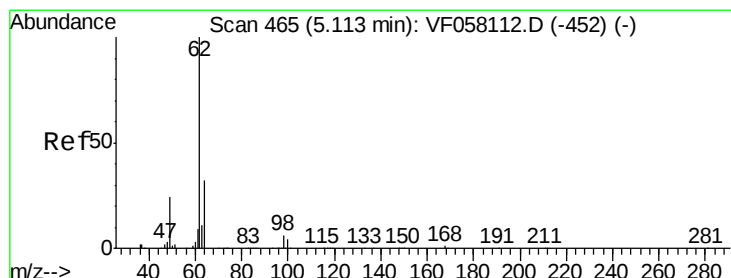
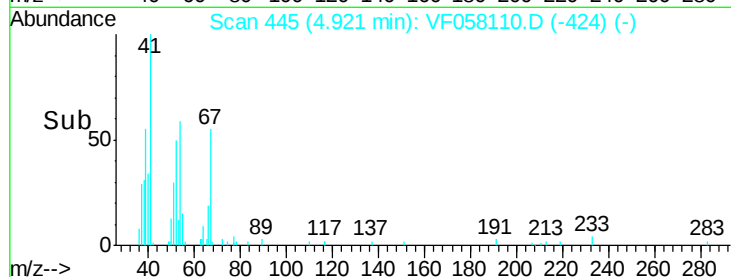
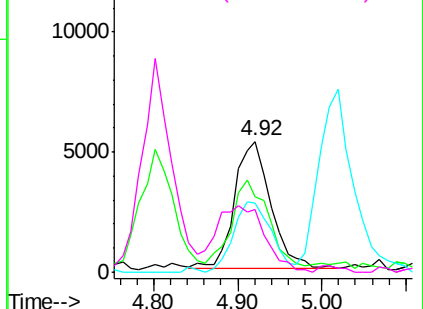
#41
Methacrylonitrile
Concen: 9.04 ug/l
RT: 4.92 min Scan# 445
Delta R.T. 0.00 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion:	41	Resp:	15824
Ion	Ratio	Lower	Upper
41	100		
39	57.7	53.0	79.4
67	52.8	41.0	61.6
52	48.4	36.8	55.2

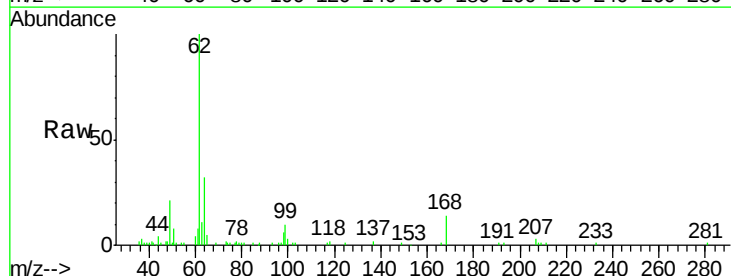


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

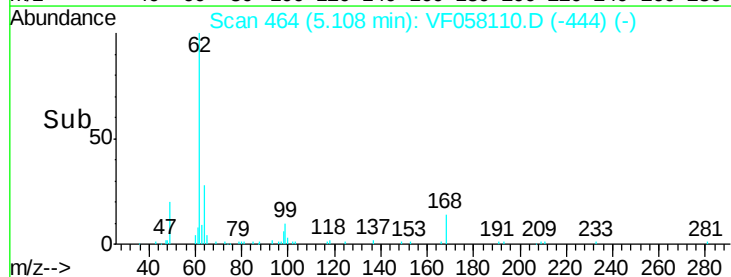
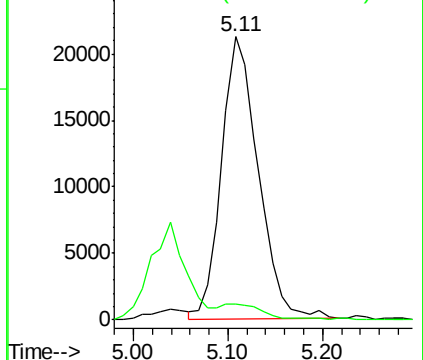


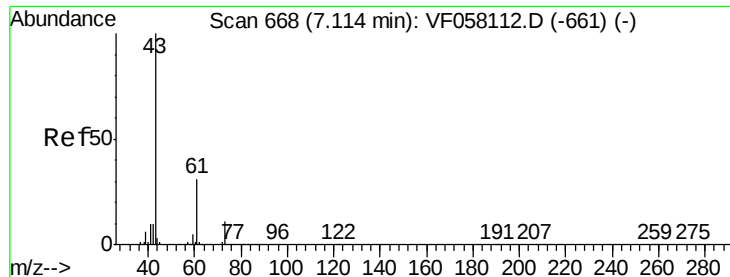
#42
1,2-Dichloroethane
Concen: 9.68 ug/l
RT: 5.11 min Scan# 464
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion:	62	Resp:	57045
Ion	Ratio	Lower	Upper
62	100		
98	5.7	0.0	11.8



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 9.55 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

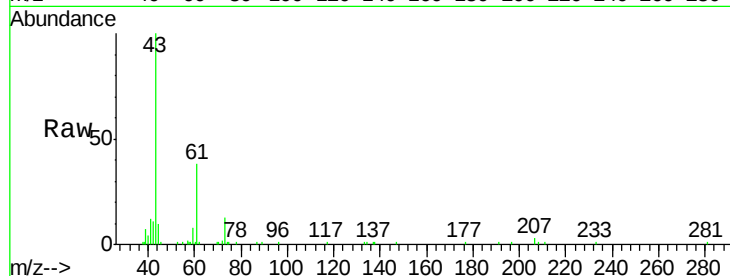
Tgt Ion: 43 Resp: 44756

Ion Ratio Lower Upper

43 100

61 37.5 25.1 37.7

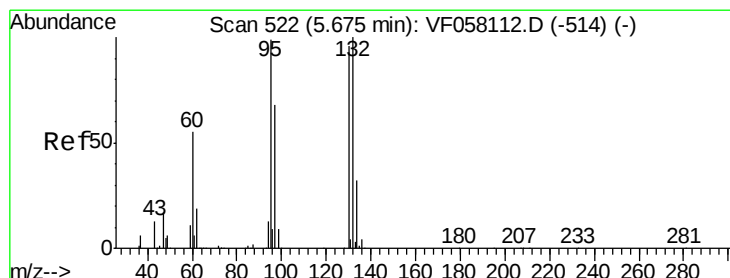
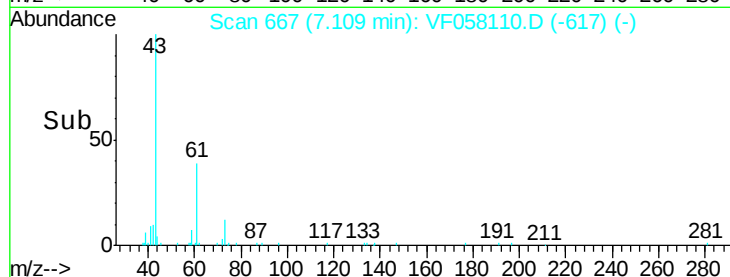
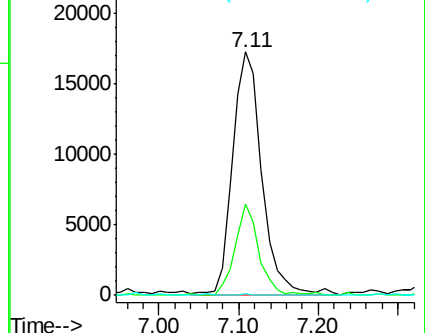
87 0.6 0.2 0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 9.69 ug/l

RT: 5.67 min Scan# 521

Delta R.T. -0.01 min

Lab File: VF058110.D

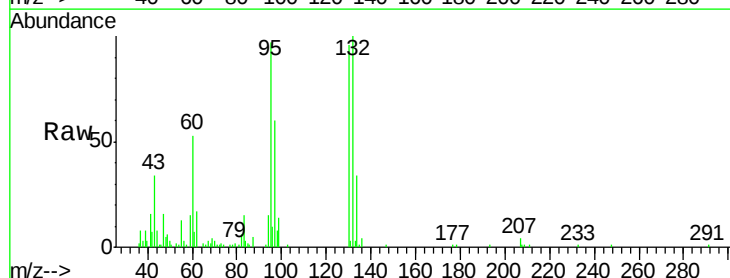
Acq: 6 Jun 2018 16:45

Tgt Ion: 130 Resp: 41443

Ion Ratio Lower Upper

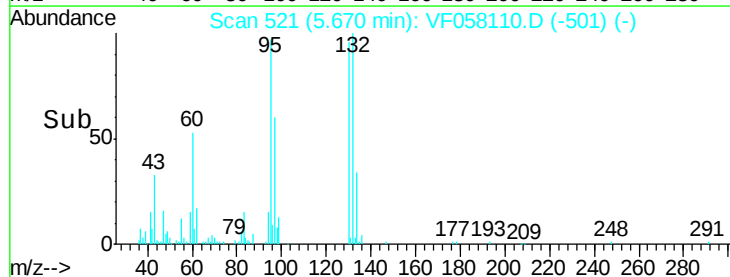
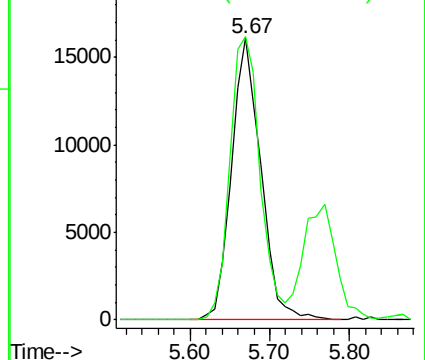
130 100

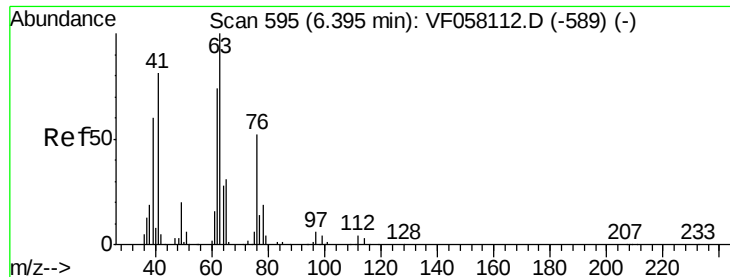
95 100.6 0.0 206.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 9.43 ug/l

RT: 6.40 min Scan# 595

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

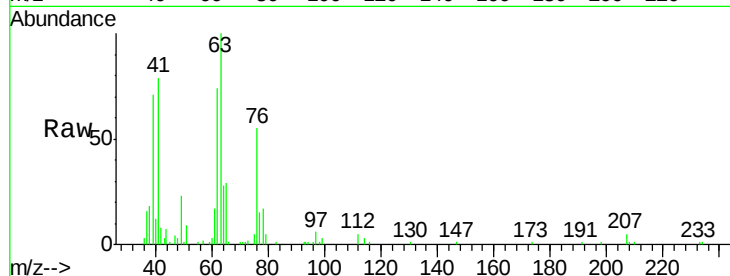
VSTDIC010

Tgt Ion: 63 Resp: 37624

Ion Ratio Lower Upper

63 100

65 28.5 24.6 37.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

15000

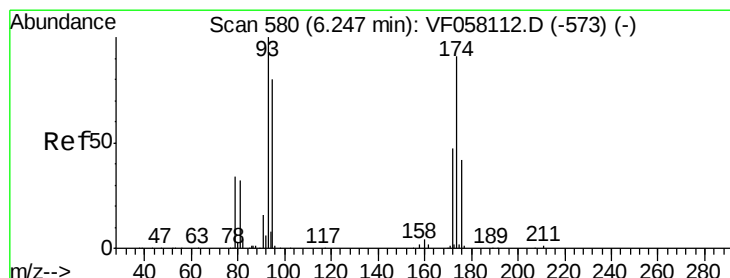
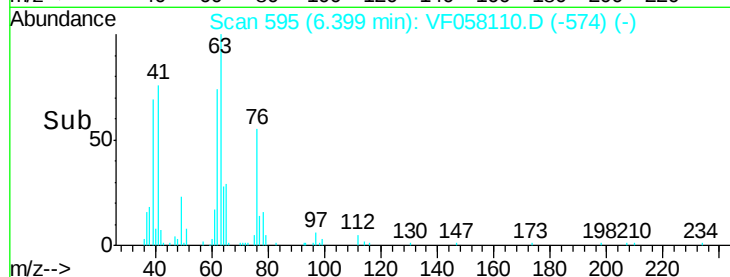
10000

5000

0

6.30 6.40 6.50

Time-->



#46

Dibromomethane

Concen: 9.08 ug/l

RT: 6.25 min Scan# 580

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

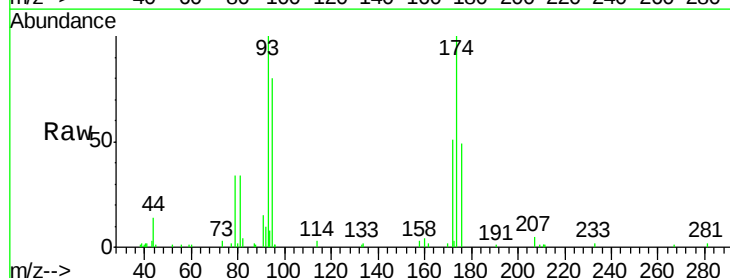
Tgt Ion: 93 Resp: 27338

Ion Ratio Lower Upper

93 100

95 81.3 64.2 96.4

174 100.3 72.7 109.1



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

15000

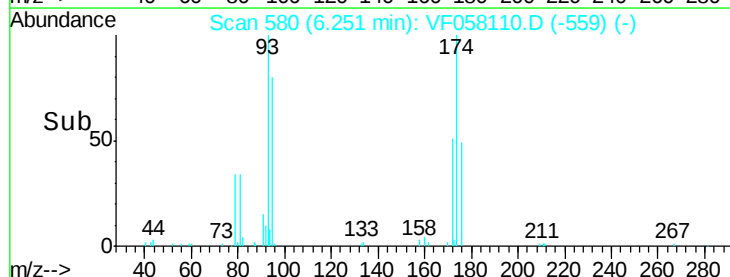
10000

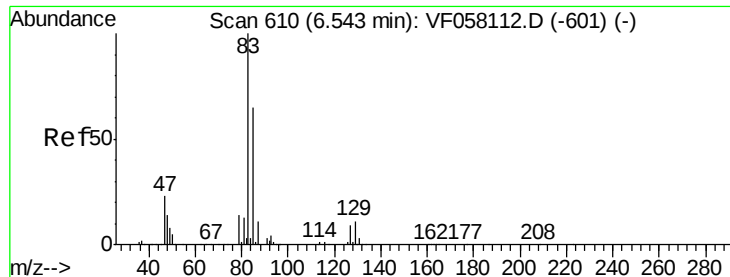
5000

0

6.10 6.20 6.30 6.40

Time-->





#47

Bromodichloromethane

Concen: 9.53 ug/l

RT: 6.54 min Scan# 609

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

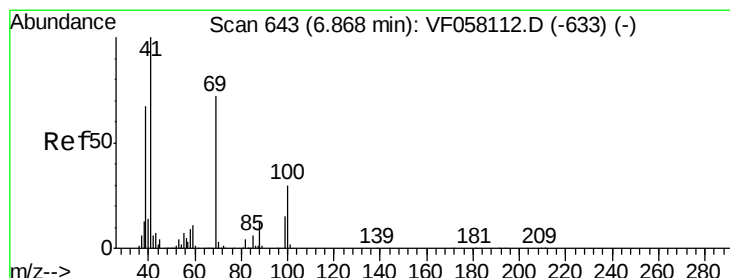
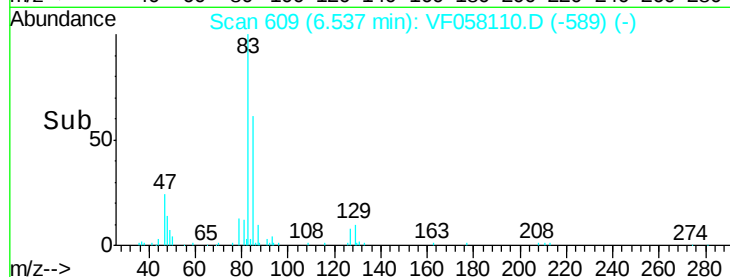
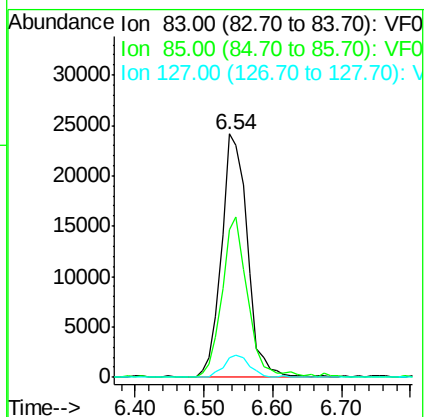
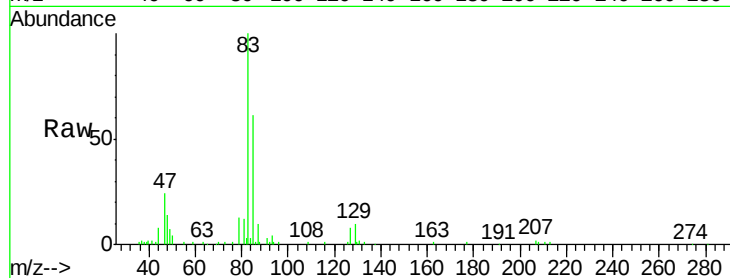
Tgt Ion: 83 Resp: 63327

Ion Ratio Lower Upper

83 100

85 60.7 51.6 77.4

127 8.0 7.2 10.8



#48

Methyl methacrylate

Concen: 9.41 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

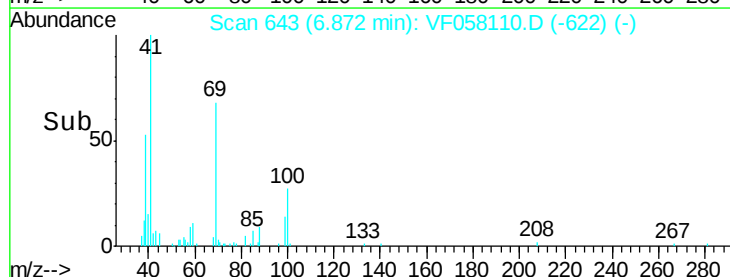
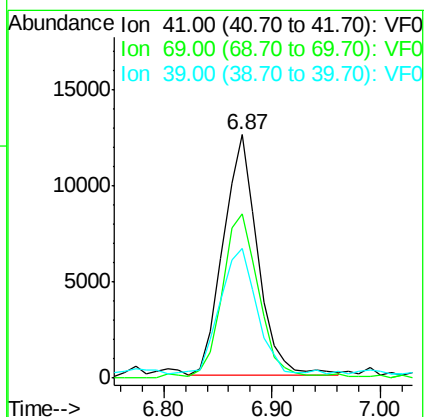
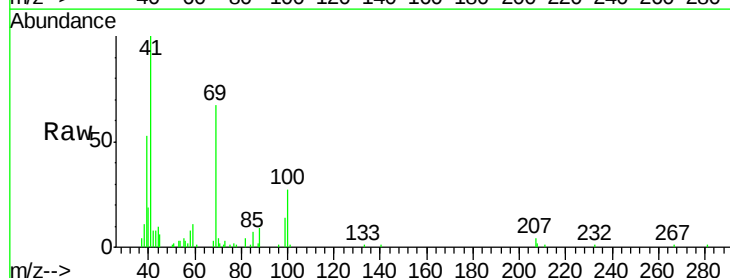
Tgt Ion: 41 Resp: 27888

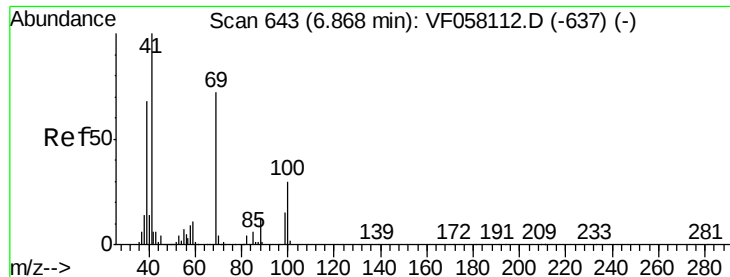
Ion Ratio Lower Upper

41 100

69 67.4 57.2 85.8

39 53.4 54.3 81.5#





#49

1,4-Dioxane

Concen: 189.97 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

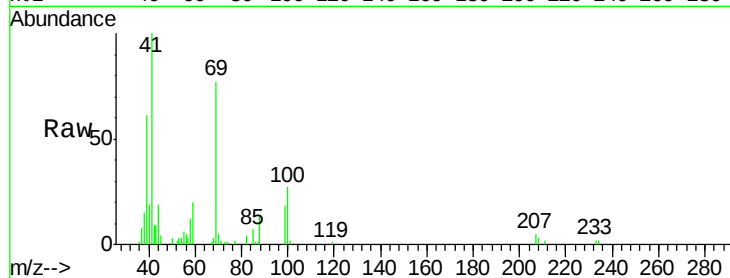
Tgt Ion: 88 Resp: 3883

Ion Ratio Lower Upper

88 100

43 64.2 47.8 71.8

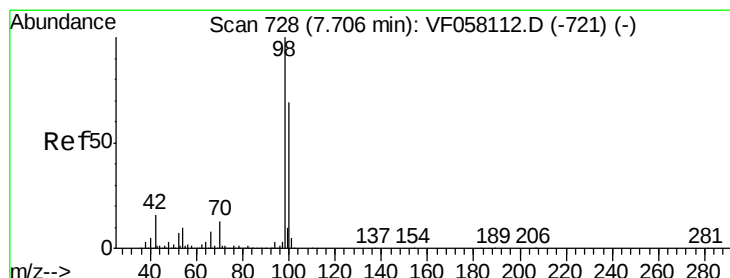
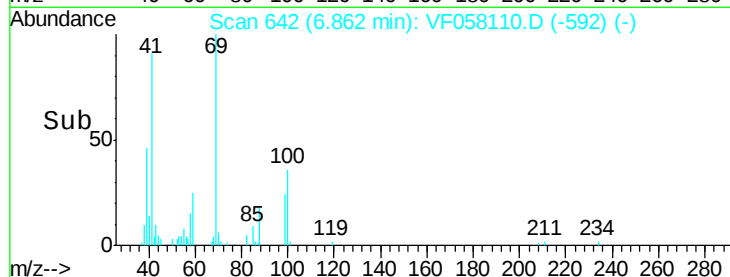
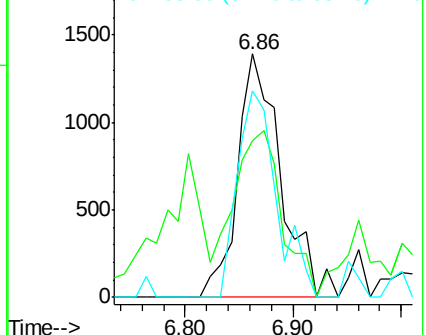
58 84.8 59.4 89.0



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 9.08 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.01 min

Lab File: VF058110.D

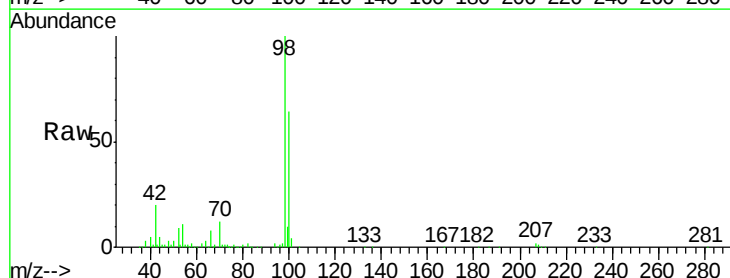
Acq: 6 Jun 2018 16:45

Tgt Ion: 98 Resp: 115654

Ion Ratio Lower Upper

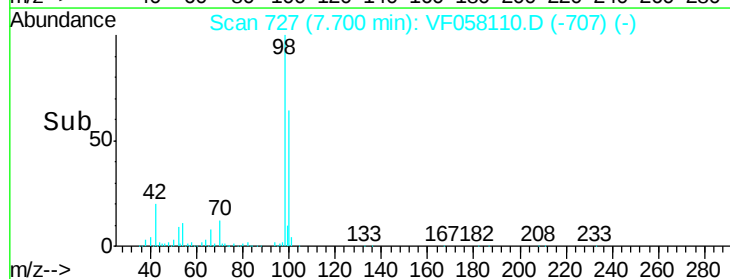
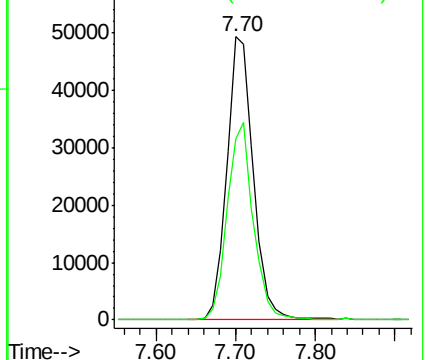
98 100

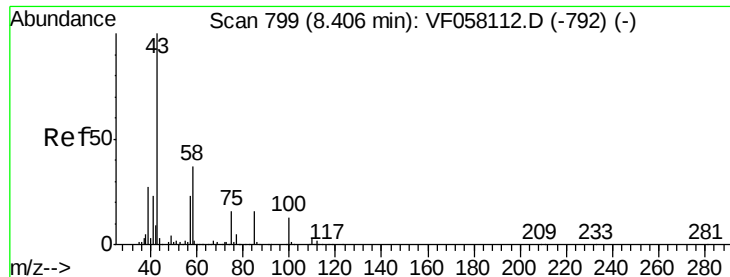
100 64.1 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 50.62 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

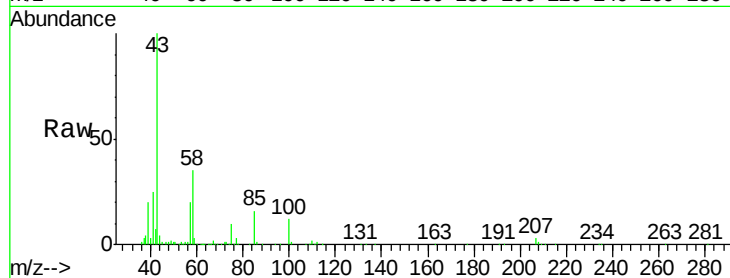
VSTDIC010

Tgt Ion: 43 Resp: 164682

Ion Ratio Lower Upper

43 100

58 34.9 29.4 44.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

60000

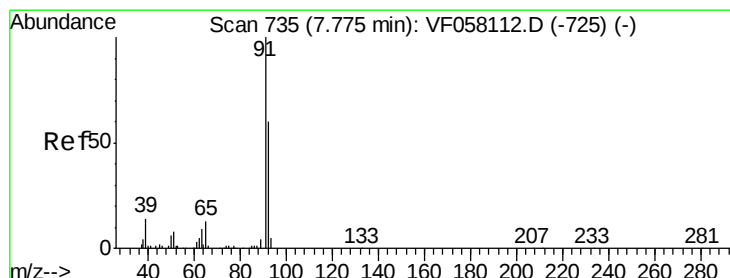
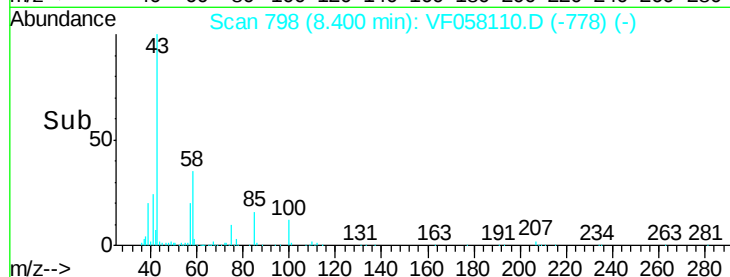
40000

20000

0

8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 9.97 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF058110.D

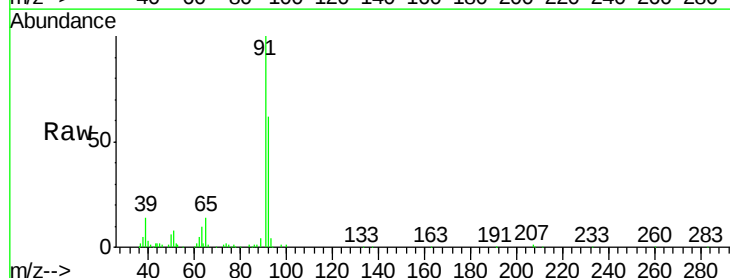
Acq: 6 Jun 2018 16:45

Tgt Ion: 92 Resp: 97149

Ion Ratio Lower Upper

92 100

91 161.0 132.9 199.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.77

60000

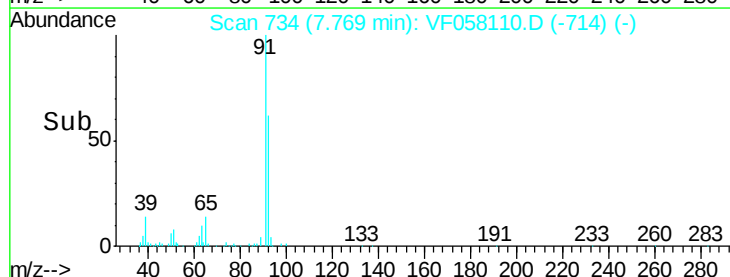
40000

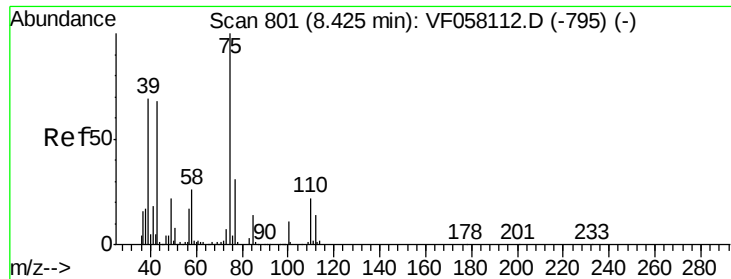
20000

0

7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 9.82 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

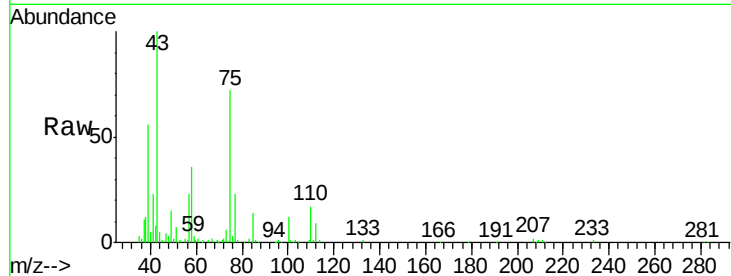
VSTDIC010

Tgt Ion: 75 Resp: 62358

Ion Ratio Lower Upper

75 100

77 32.5 25.1 37.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.42

30000

25000

20000

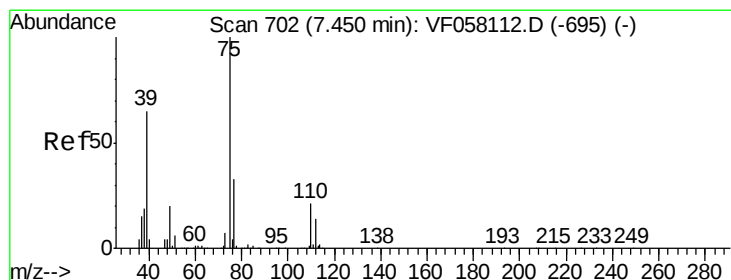
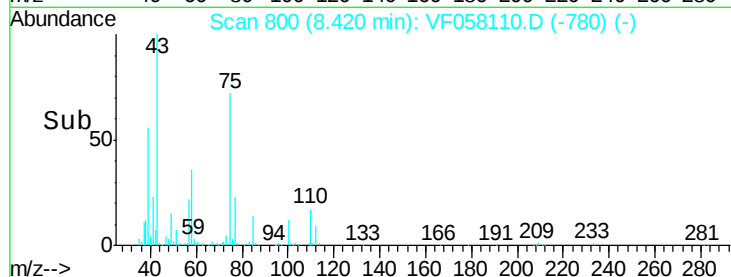
15000

10000

5000

0

Time--> 8.30 8.40 8.50



#54

cis-1,3-Dichloropropene

Concen: 9.62 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

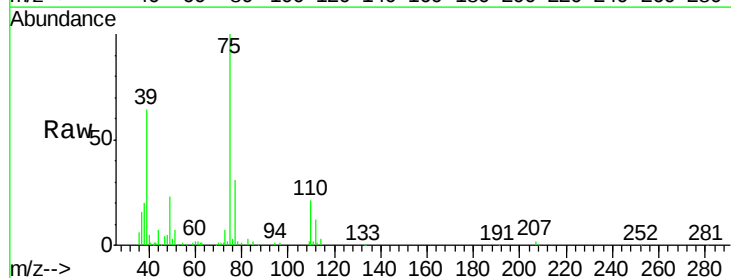
Tgt Ion: 75 Resp: 70178

Ion Ratio Lower Upper

75 100

77 31.5 26.3 39.5

39 64.0 52.1 78.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

7.45

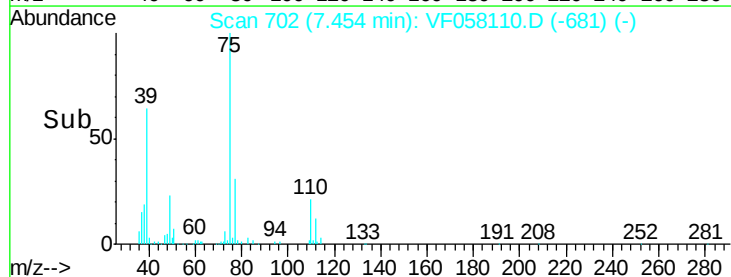
30000

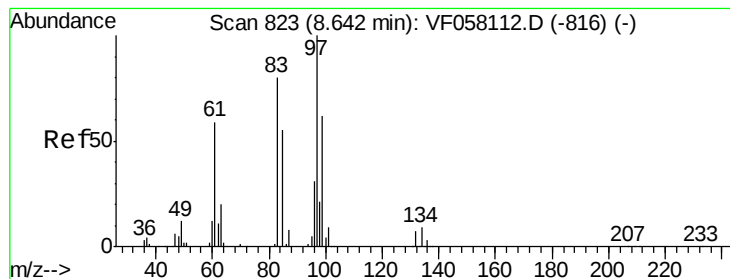
20000

10000

0

Time--> 7.30 7.40 7.50 7.60





#55

1,1,2-Trichloroethane

Concen: 9.33 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 33058

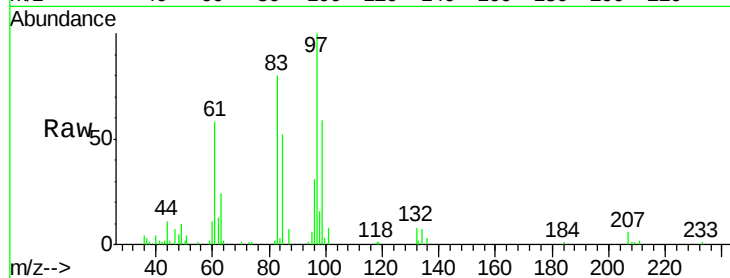
Ion Ratio Lower Upper

97 100

83 79.9 64.3 96.5

85 52.2 43.8 65.8

99 58.6 49.8 74.8

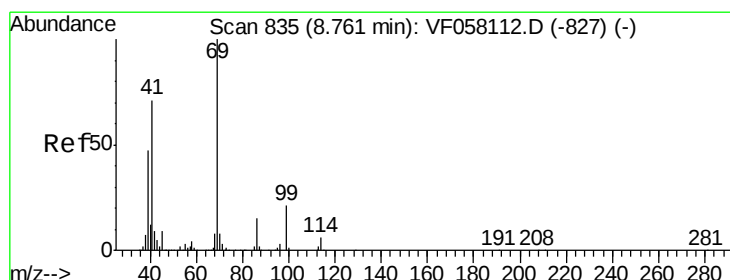
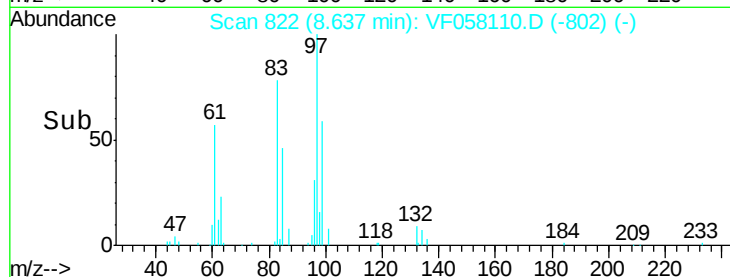
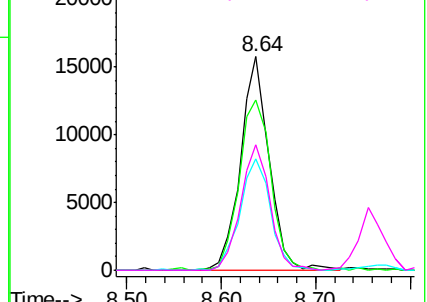


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 9.28 ug/l

RT: 8.76 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

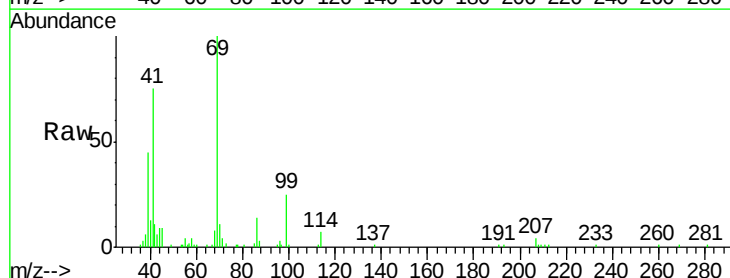
Tgt Ion: 69 Resp: 41576

Ion Ratio Lower Upper

69 100

41 75.3 56.9 85.3

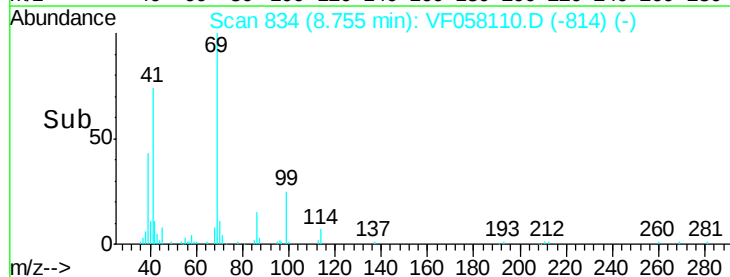
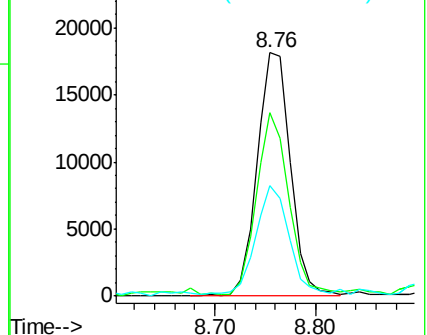
39 45.2 38.0 57.0

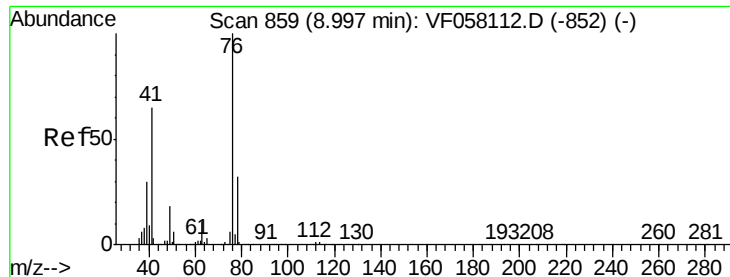


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 8.99 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

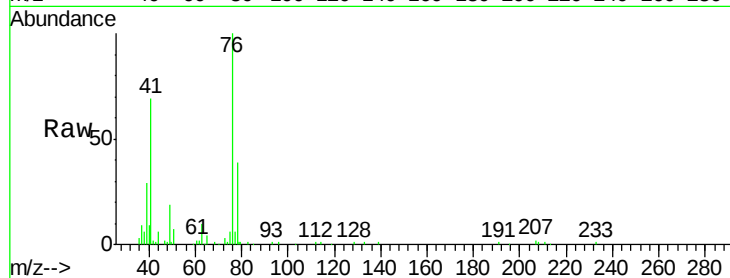
VSTDIC010

Tgt Ion: 76 Resp: 55432

Ion Ratio Lower Upper

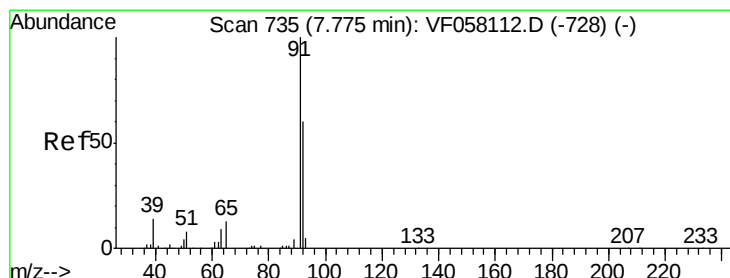
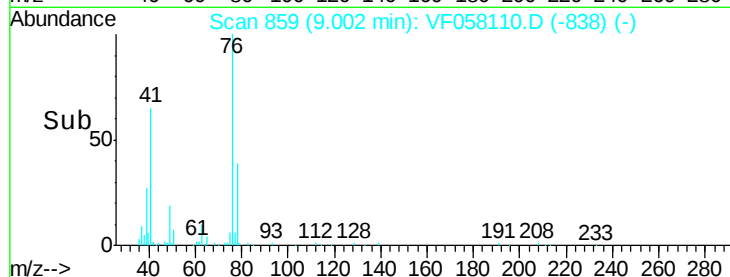
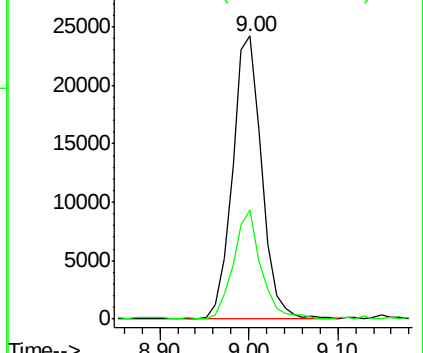
76 100

78 38.5 25.8 38.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 53.38 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF058110.D

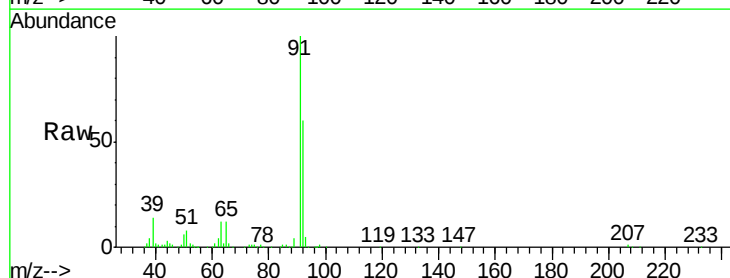
Acq: 6 Jun 2018 16:45

Tgt Ion: 63 Resp: 16536

Ion Ratio Lower Upper

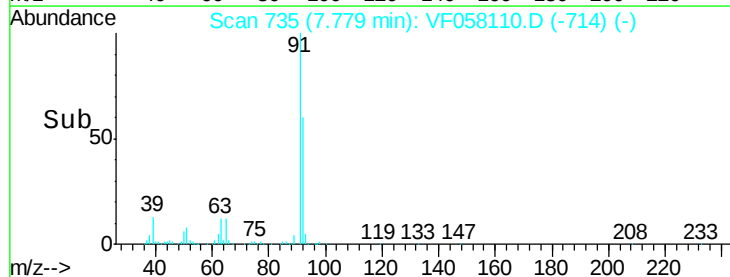
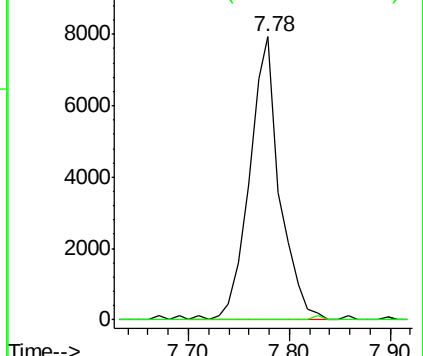
63 100

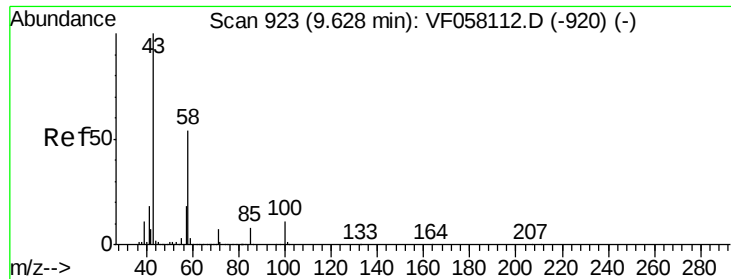
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

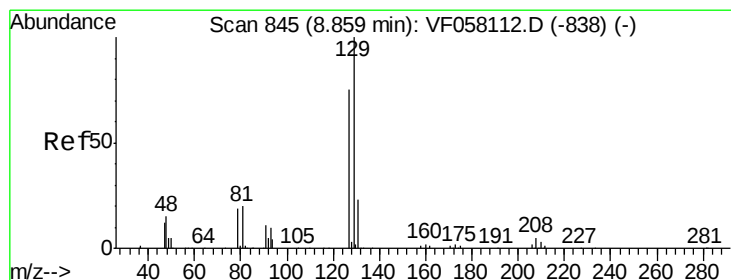
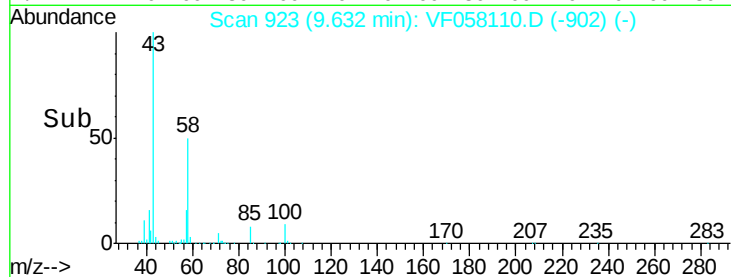
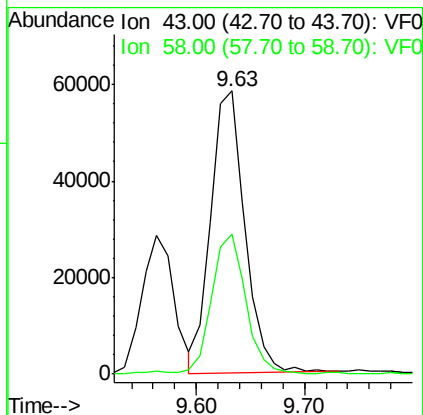
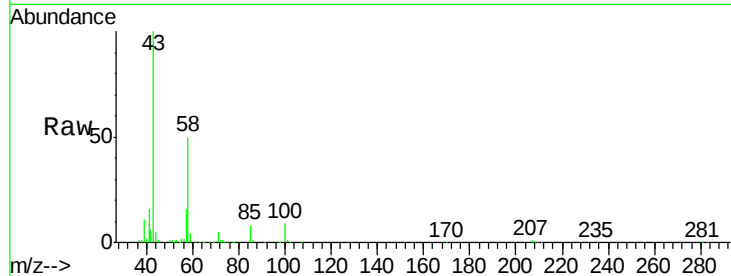




#59
2-Hexanone
Concen: 50.15 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

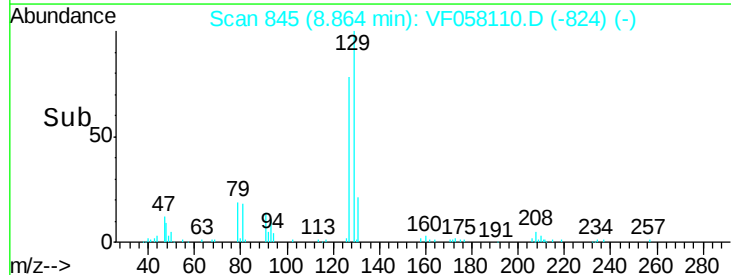
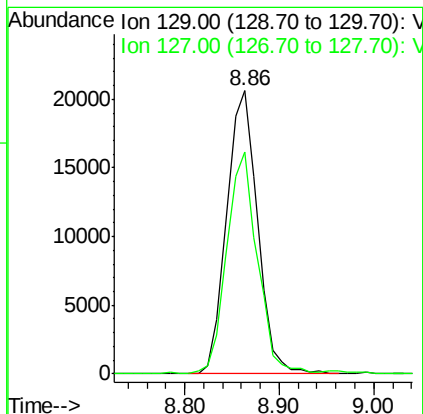
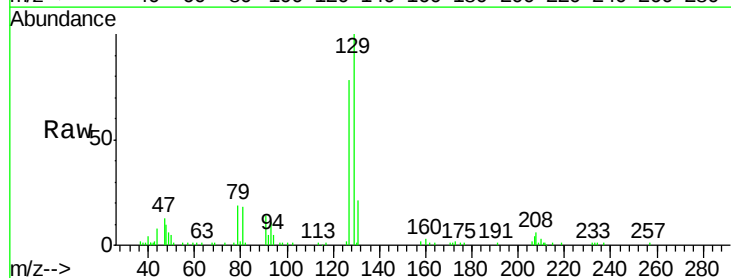
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

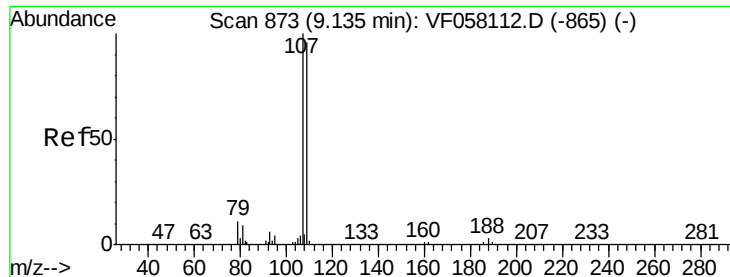
Tgt Ion: 43 Resp: 127760
Ion Ratio Lower Upper
43 100
58 49.7 26.3 78.8



#60
Dibromochloromethane
Concen: 9.25 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion: 129 Resp: 46590
Ion Ratio Lower Upper
129 100
127 78.5 37.6 112.9





#61

1,2-Dibromoethane

Concen: 8.70 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

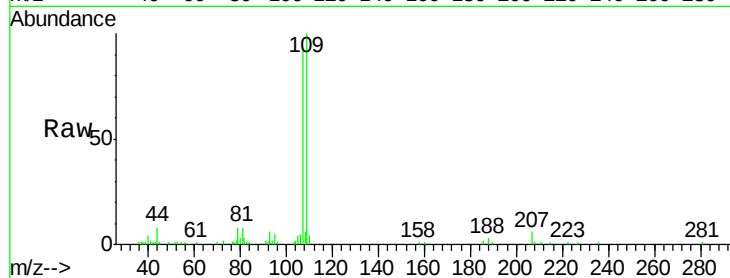
VSTDIC010

Tgt Ion: 107 Resp: 36768

Ion Ratio Lower Upper

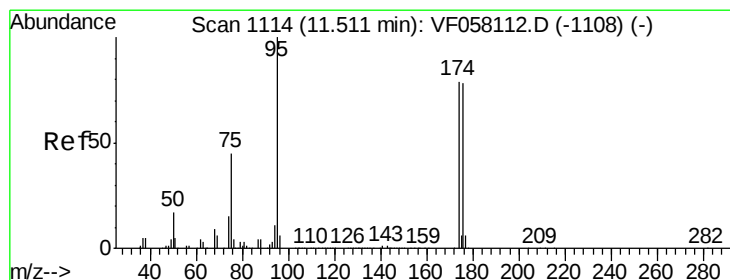
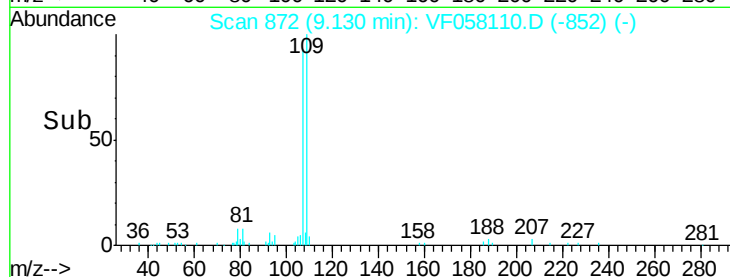
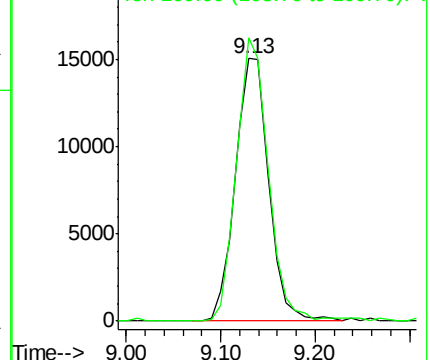
107 100

109 107.8 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 9.94 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

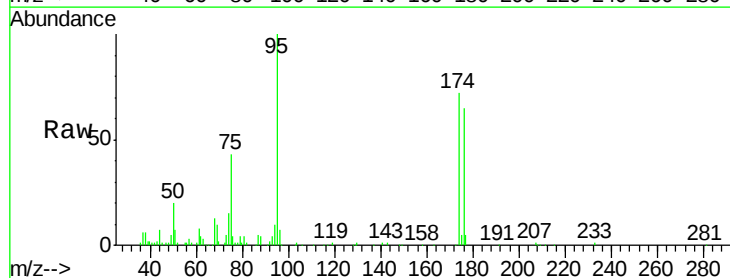
Tgt Ion: 95 Resp: 63379

Ion Ratio Lower Upper

95 100

174 71.9 0.0 157.8

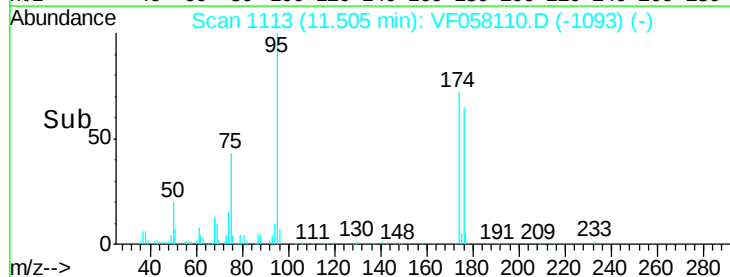
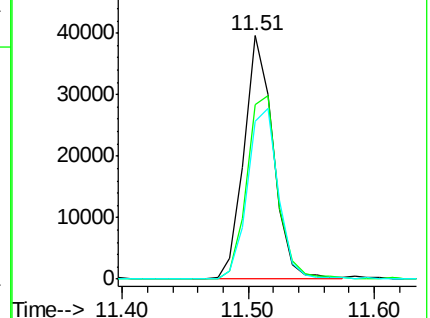
176 65.0 0.0 155.8

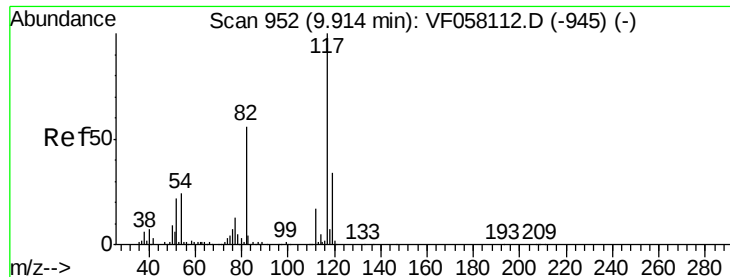


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

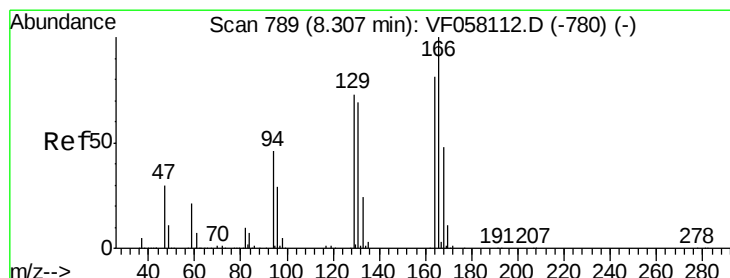
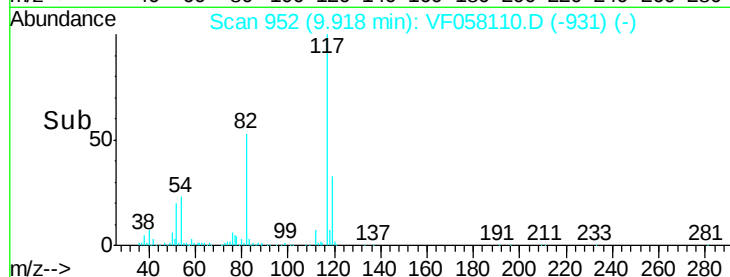
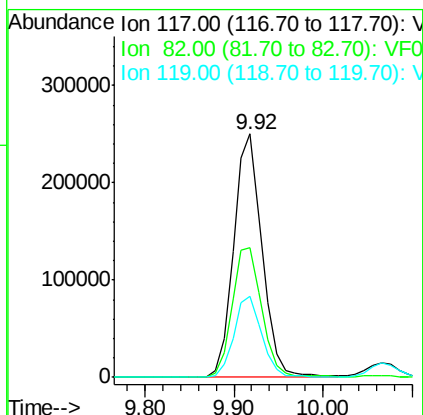
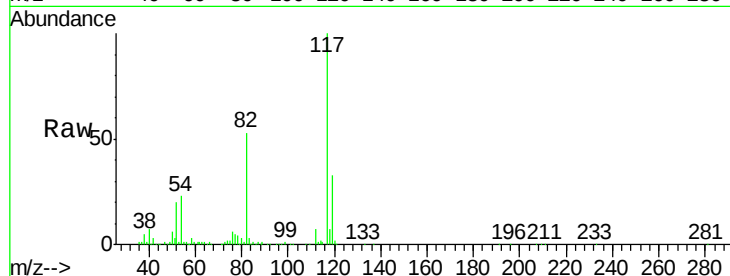




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

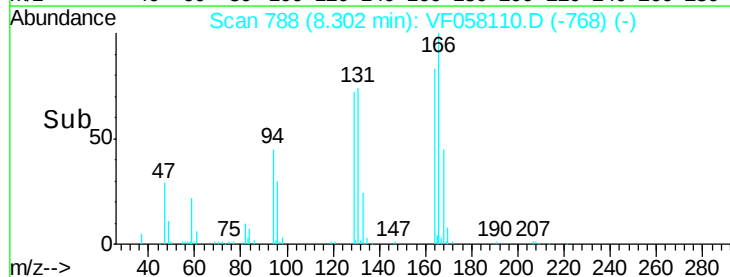
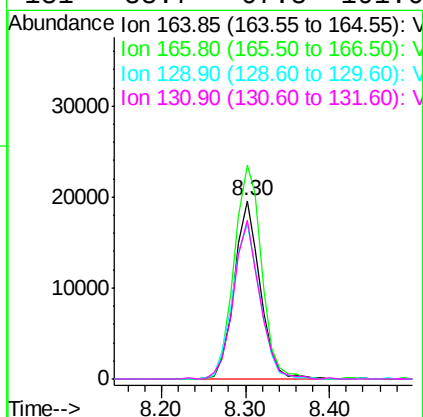
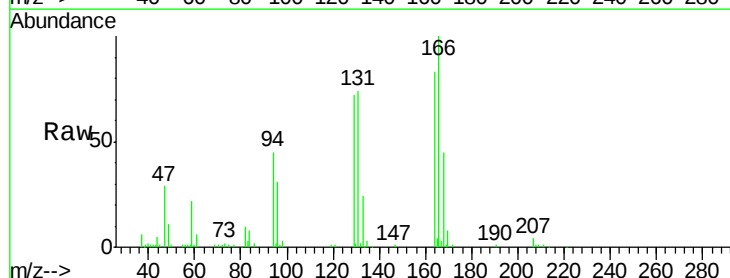
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

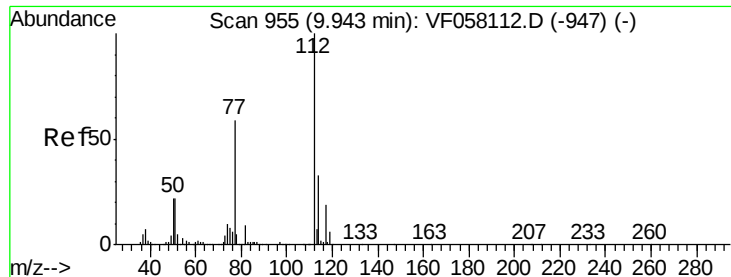
Tgt Ion:117 Resp: 557978
Ion Ratio Lower Upper
117 100
82 53.4 45.2 67.8
119 33.4 27.5 41.3



#64
Tetrachloroethene
Concen: 9.93 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion:164 Resp: 41825
Ion Ratio Lower Upper
164 100
166 119.8 98.2 147.4
129 86.9 71.6 107.4
131 88.7 67.8 101.6





#65

Chlorobenzene

Concen: 9.90 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

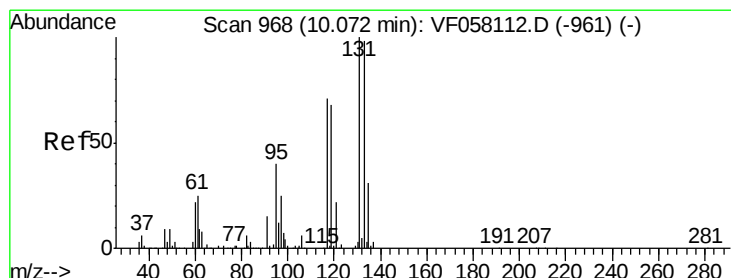
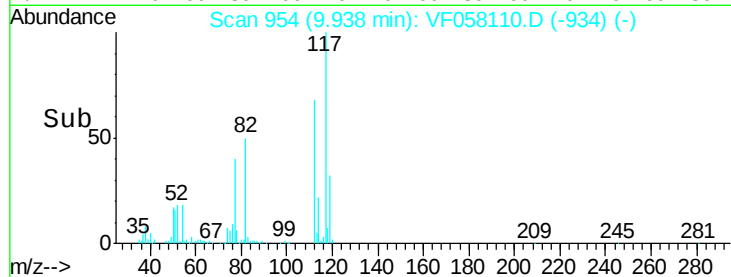
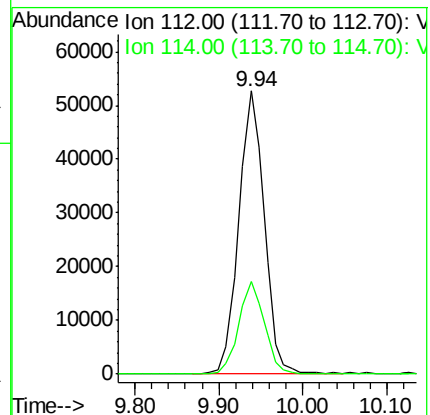
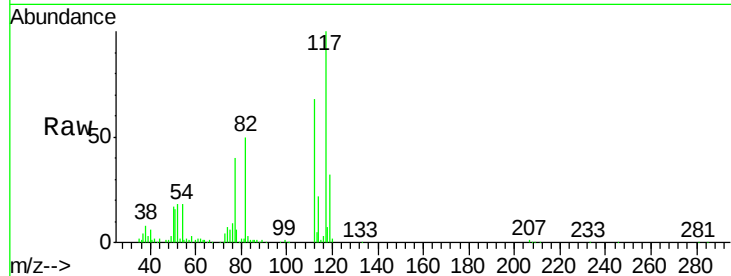
VSTDIC010

Tgt Ion:112 Resp: 111901

Ion Ratio Lower Upper

112 100

114 32.8 26.2 39.4



#66

1,1,1,2-Tetrachloroethane

Concen: 10.32 ug/l

RT: 10.07 min Scan# 967

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

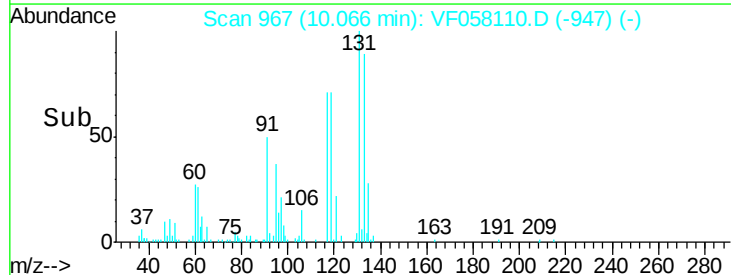
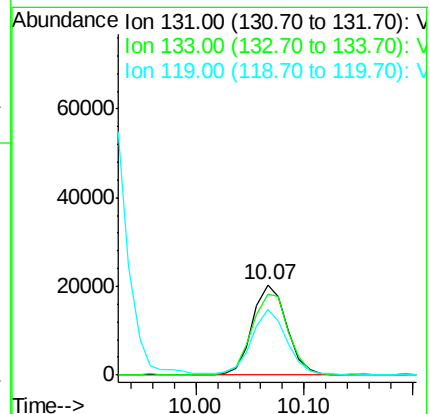
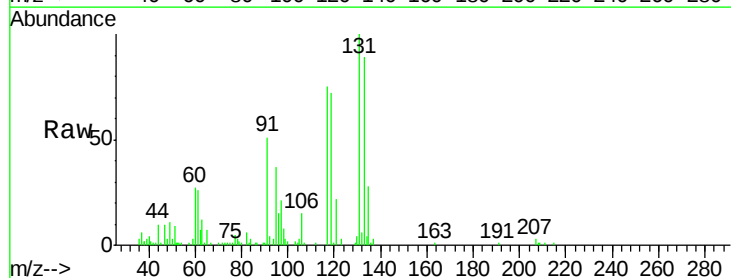
Tgt Ion:131 Resp: 45588

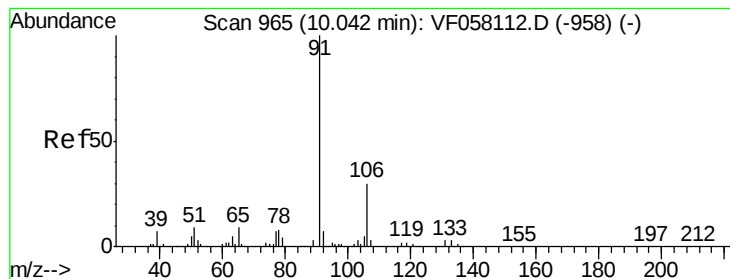
Ion Ratio Lower Upper

131 100

133 89.3 49.1 147.4

119 73.0 34.3 102.8





#67

Ethyl Benzene

Concen: 10.34 ug/l

RT: 10.04 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

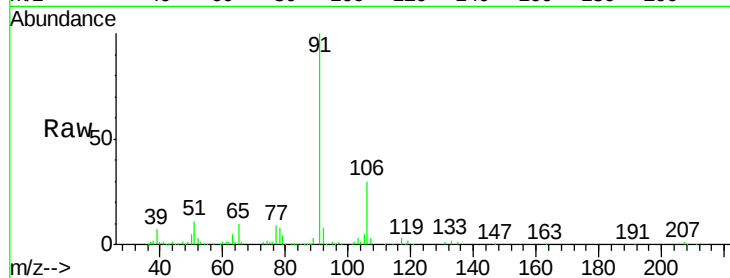
VSTDIC010

Tgt Ion: 91 Resp: 205401

Ion Ratio Lower Upper

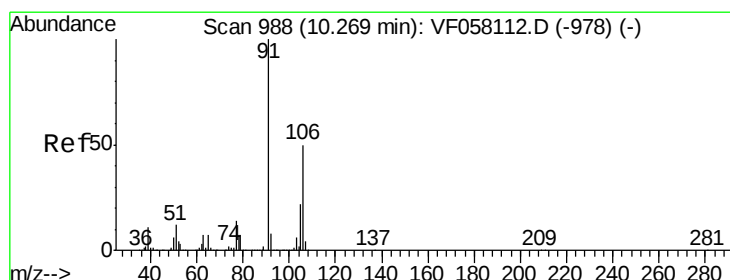
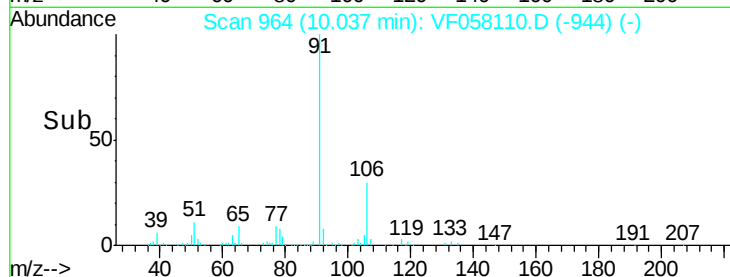
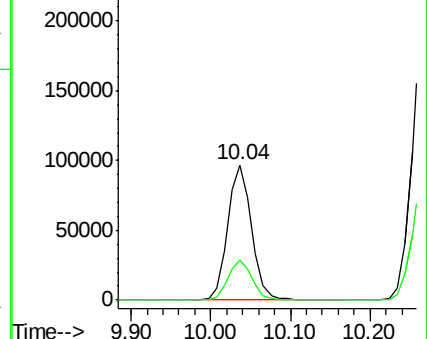
91 100

106 30.0 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 22.42 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF058110.D

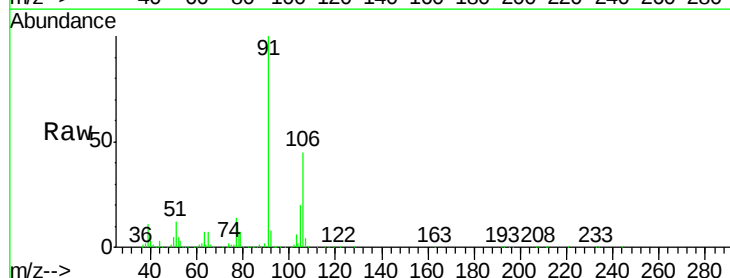
Acq: 6 Jun 2018 16:45

Tgt Ion: 106 Resp: 165174

Ion Ratio Lower Upper

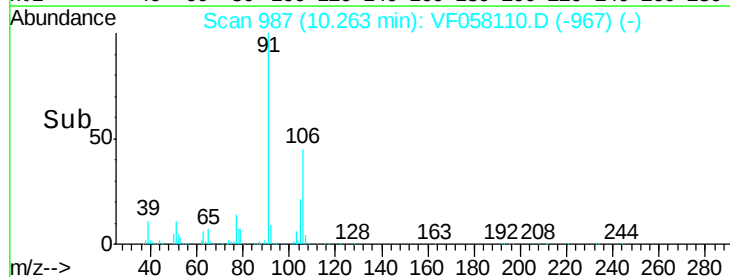
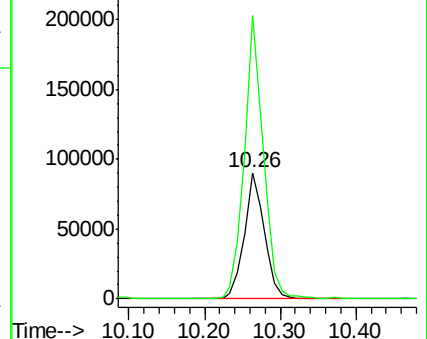
106 100

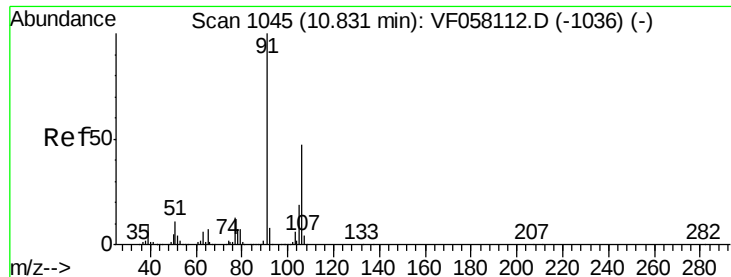
91 224.0 160.7 241.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

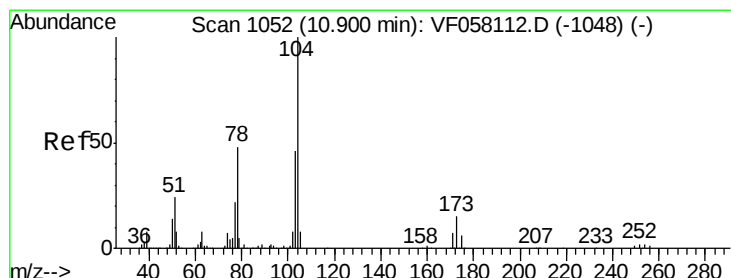
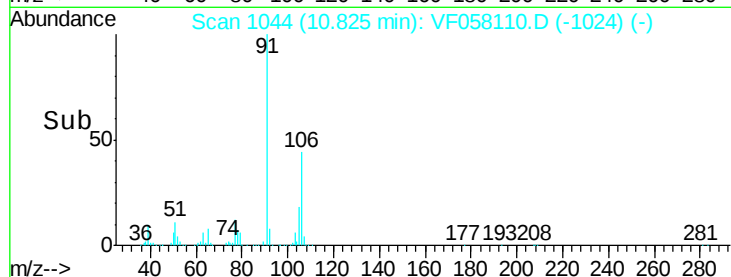
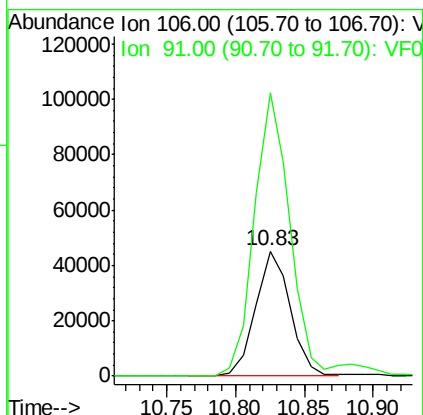
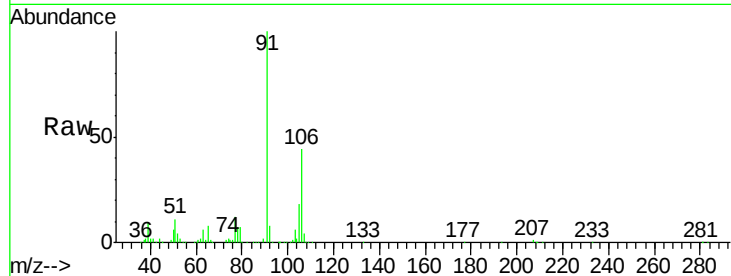




#69
o-Xylene
Concen: 9.97 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

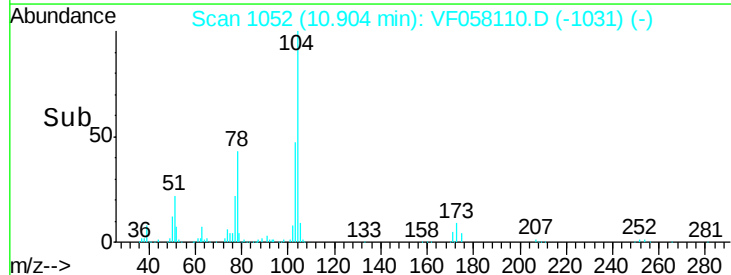
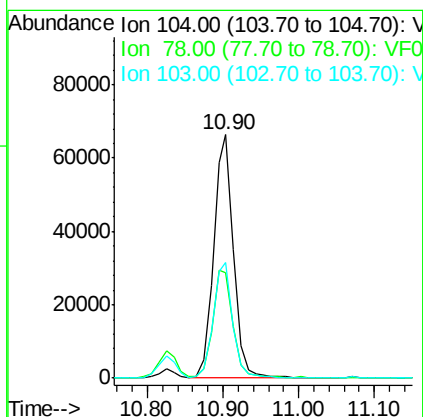
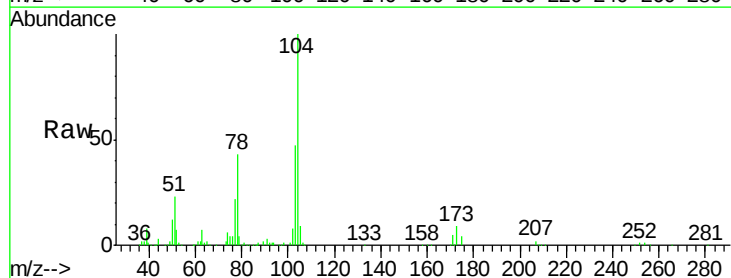
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

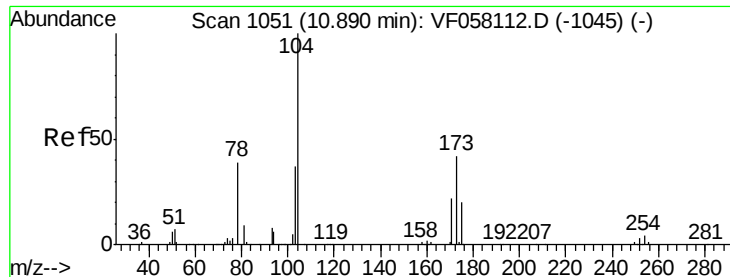
Tgt Ion:106 Resp: 79998
Ion Ratio Lower Upper
106 100
91 225.9 107.0 321.0



#70
Styrene
Concen: 10.17 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion:104 Resp: 122342
Ion Ratio Lower Upper
104 100
78 43.0 38.4 57.6
103 47.5 37.0 55.6





#71

Bromoform

Concen: 9.60 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

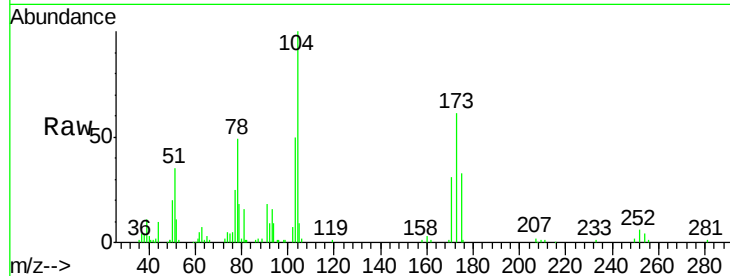
Tgt Ion:173 Resp: 29165

Ion Ratio Lower Upper

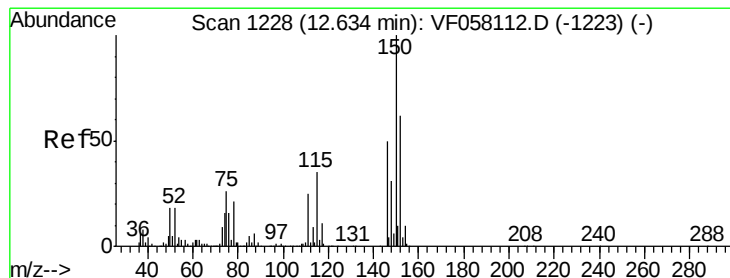
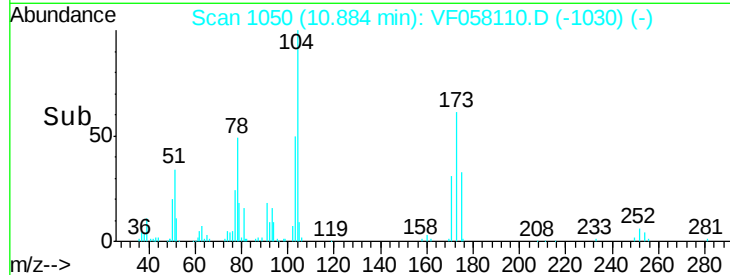
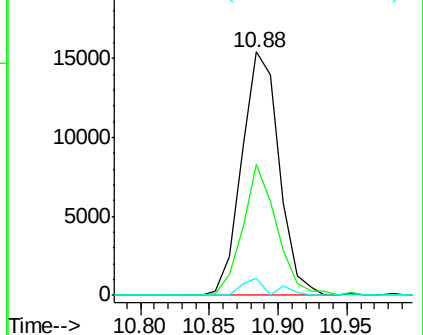
173 100

175 53.8 24.6 74.0

254 7.1 7.8 11.8#



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: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

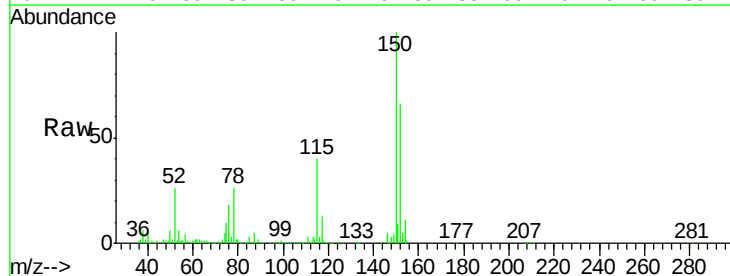
Tgt Ion:152 Resp: 333839

Ion Ratio Lower Upper

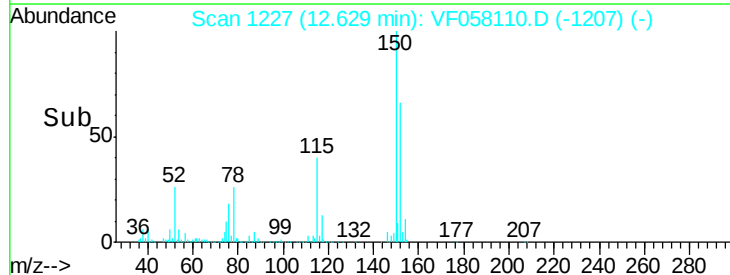
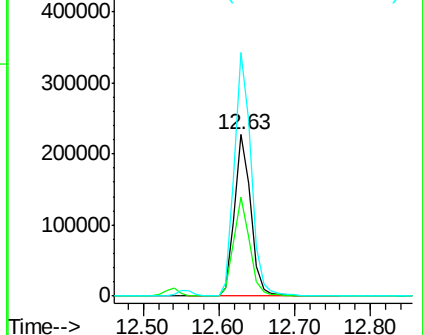
152 100

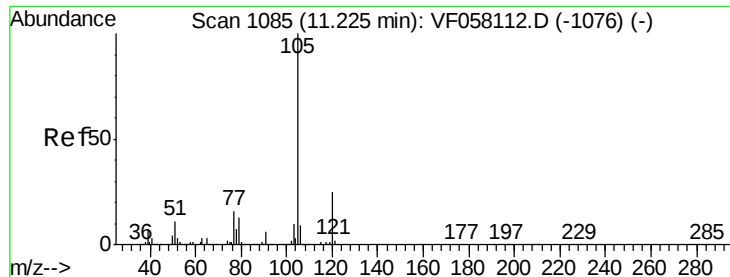
115 60.9 28.5 85.5

150 150.8 0.0 323.8



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: 10.29 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

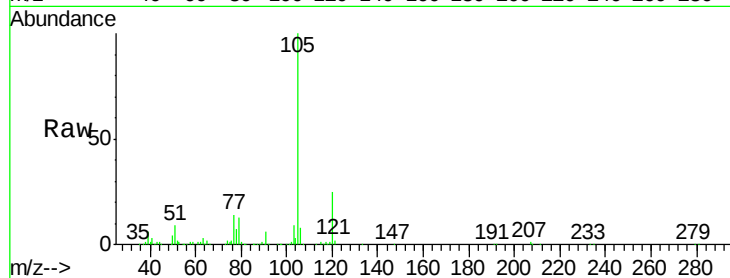
VSTDIC010

Tgt Ion: 105 Resp: 243875

Ion Ratio Lower Upper

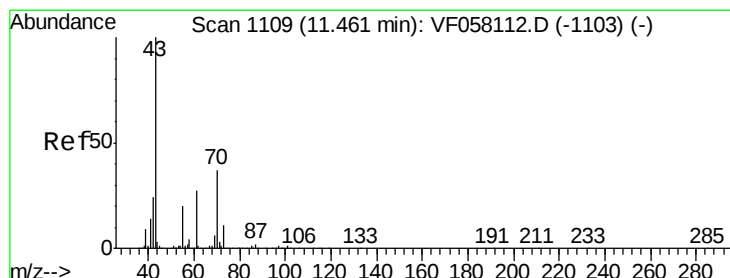
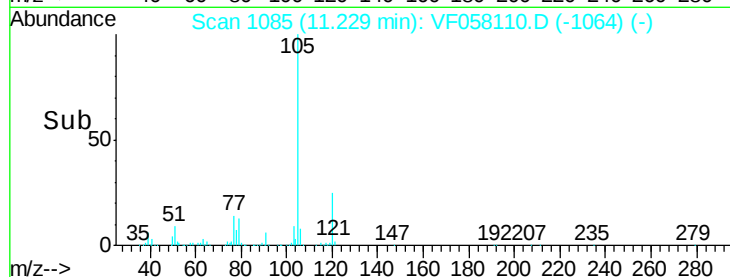
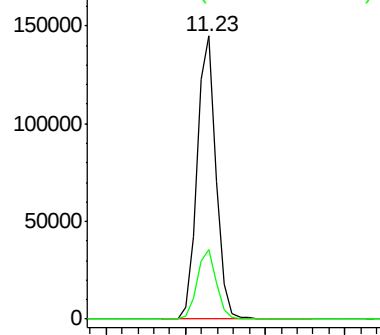
105 100

120 24.8 12.7 38.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 9.49 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Tgt Ion: 43 Resp: 83901

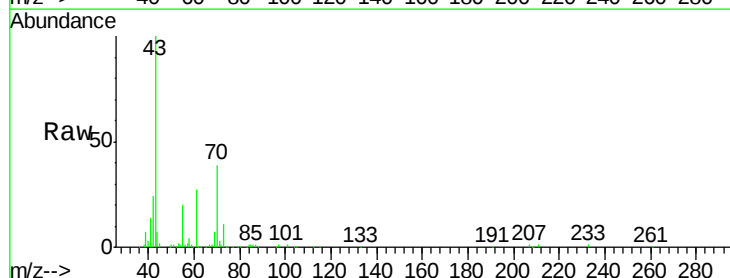
Ion Ratio Lower Upper

43 100

70 38.6 29.2 43.8

55 20.2 15.8 23.6

61 27.2 21.3 31.9

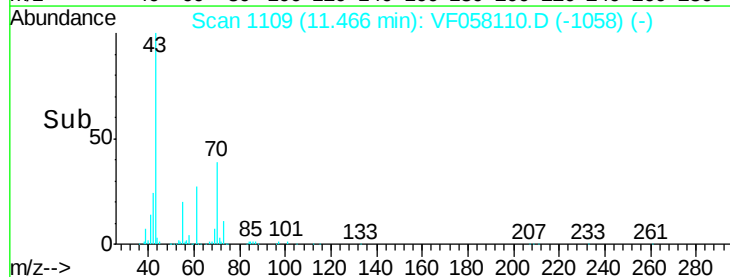
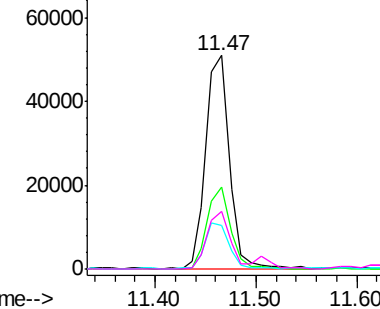


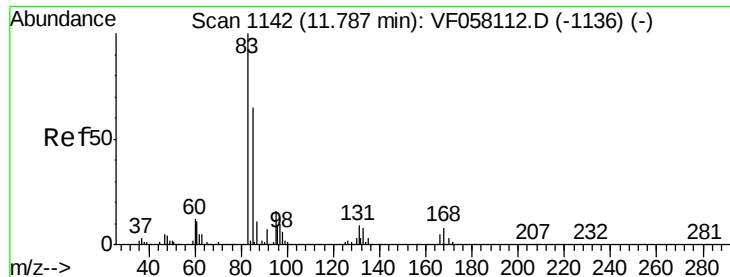
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 9.73 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

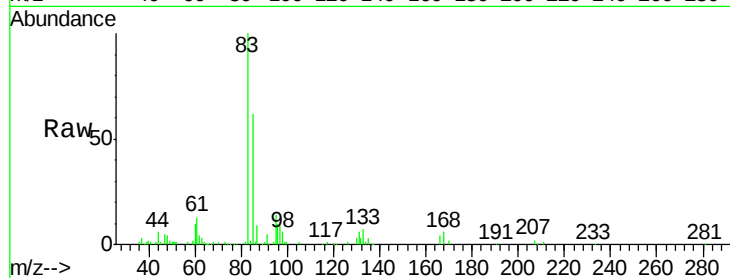
Tgt Ion: 83 Resp: 55270

Ion Ratio Lower Upper

83 100

131 6.1 4.5 13.7

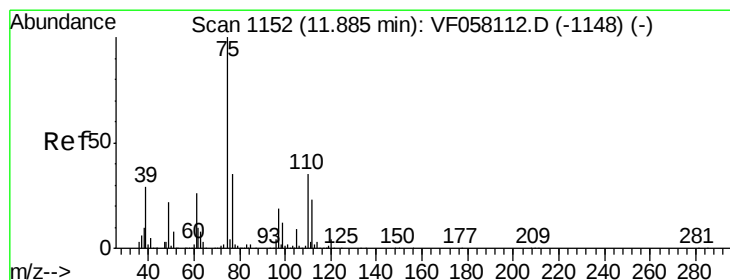
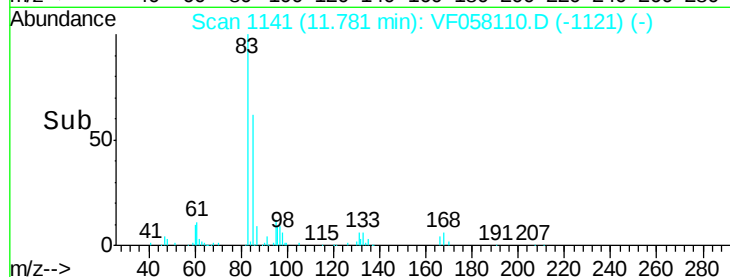
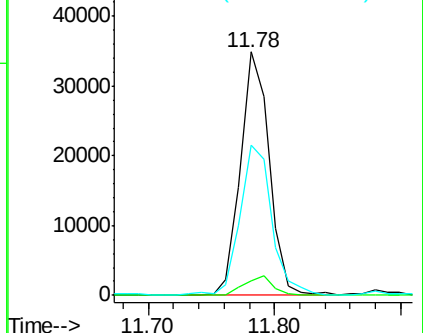
85 61.9 32.8 98.3



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: 10.16 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.01 min

Lab File: VF058110.D

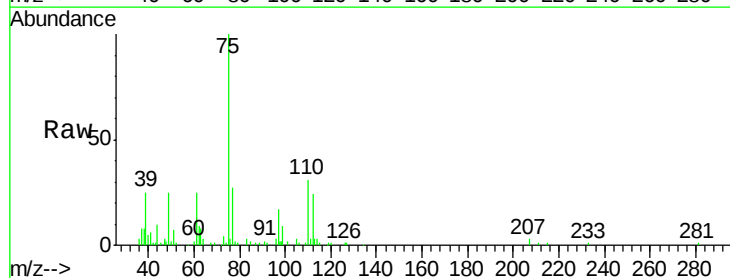
Acq: 6 Jun 2018 16:45

Tgt Ion: 75 Resp: 42085

Ion Ratio Lower Upper

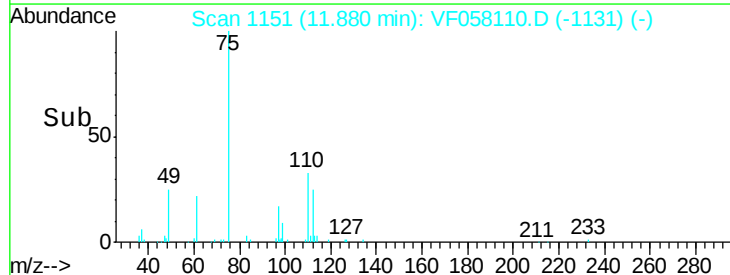
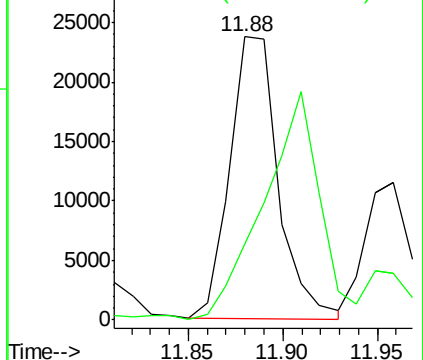
75 100

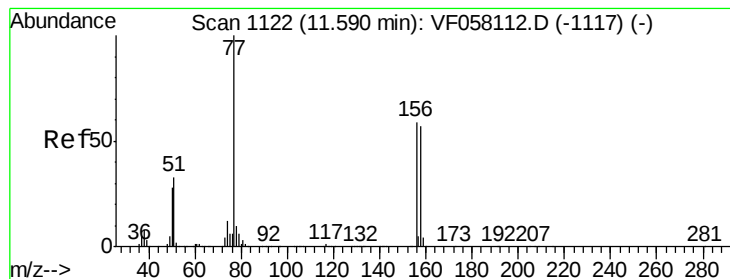
77 26.9 17.5 52.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 10.00 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

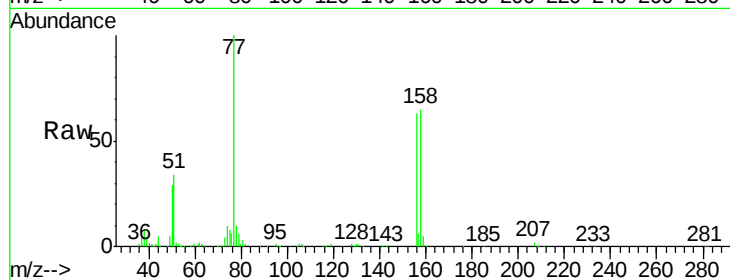
Tgt Ion:156 Resp: 59082

Ion Ratio Lower Upper

156 100

77 158.0 84.8 254.4

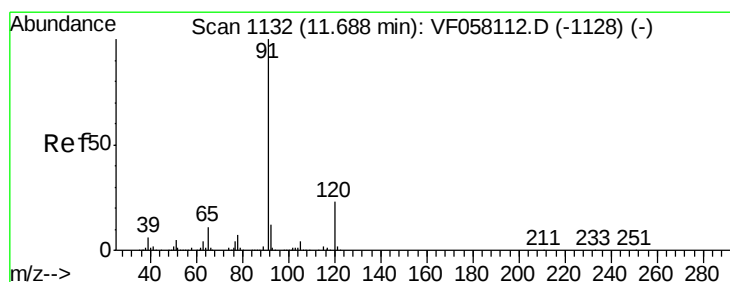
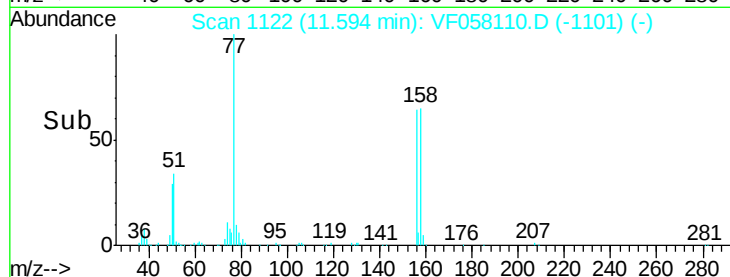
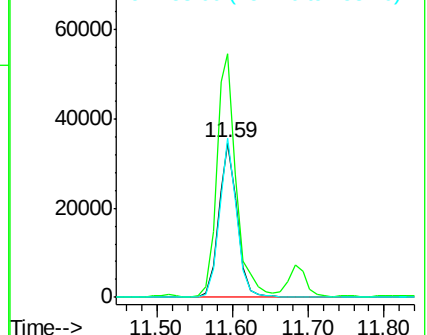
158 102.9 47.9 143.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 10.43 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF058110.D

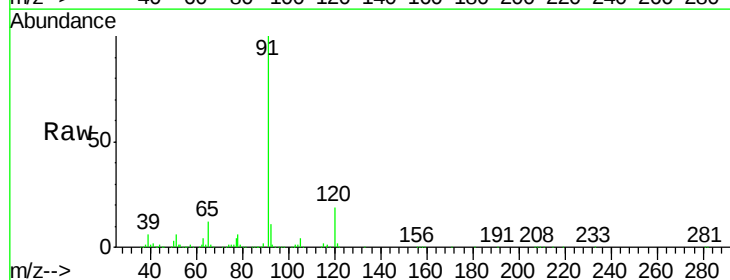
Acq: 6 Jun 2018 16:45

Tgt Ion: 91 Resp: 295396

Ion Ratio Lower Upper

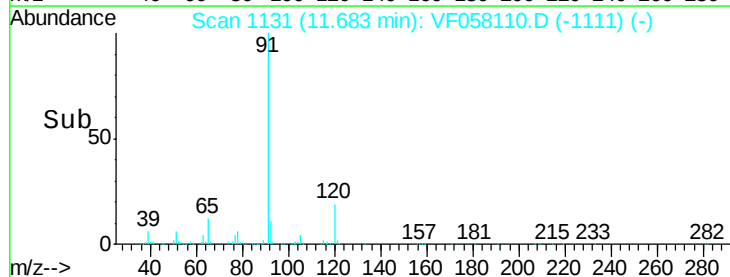
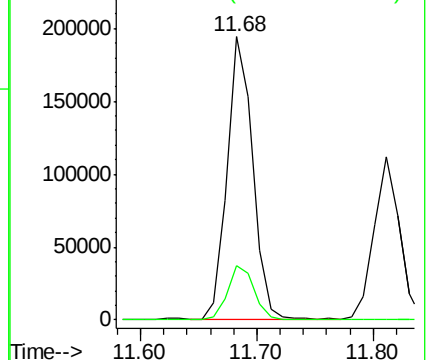
91 100

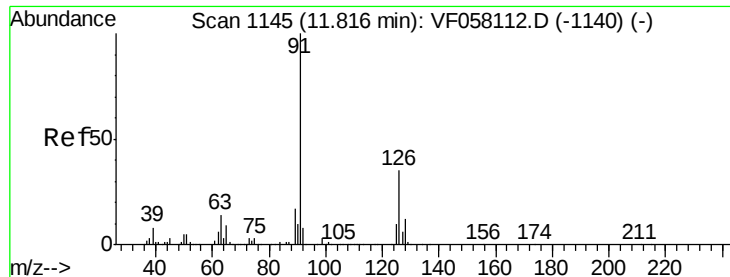
120 19.4 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 10.20 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

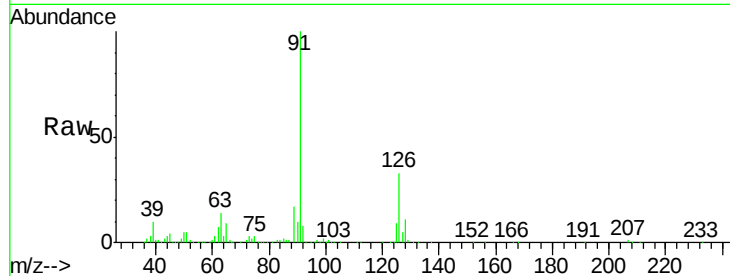
VSTDIC010

Tgt Ion: 91 Resp: 170677

Ion Ratio Lower Upper

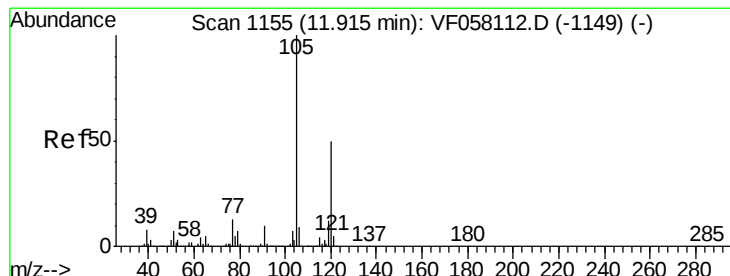
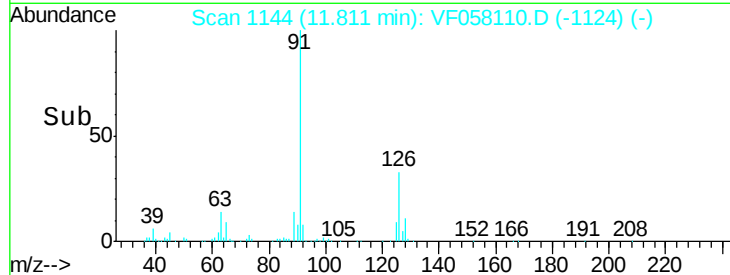
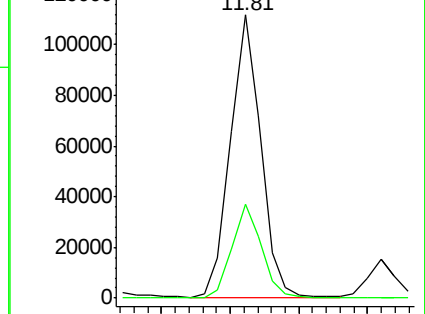
91 100

126 33.0 17.6 52.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 10.41 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VF058110.D

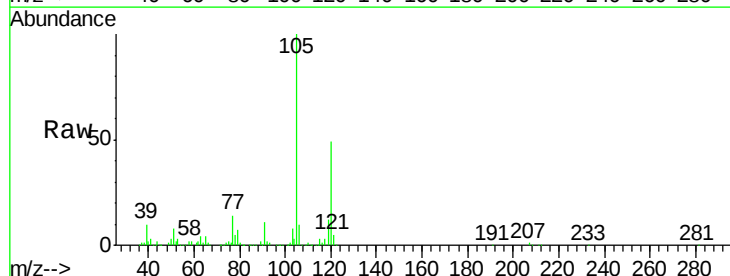
Acq: 6 Jun 2018 16:45

Tgt Ion: 105 Resp: 204537

Ion Ratio Lower Upper

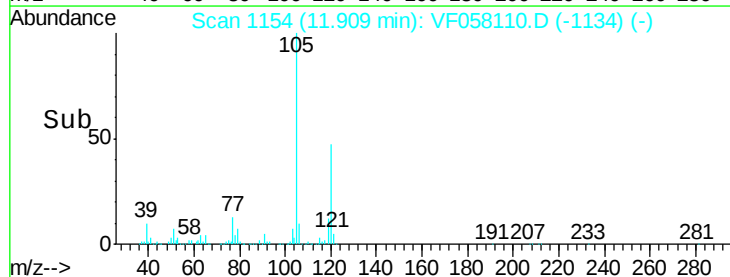
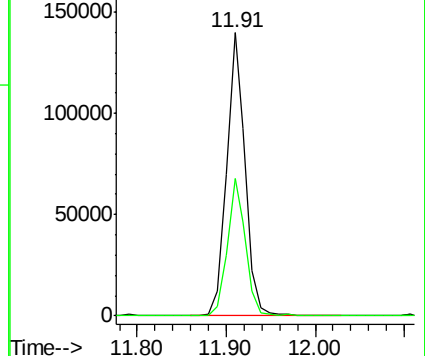
105 100

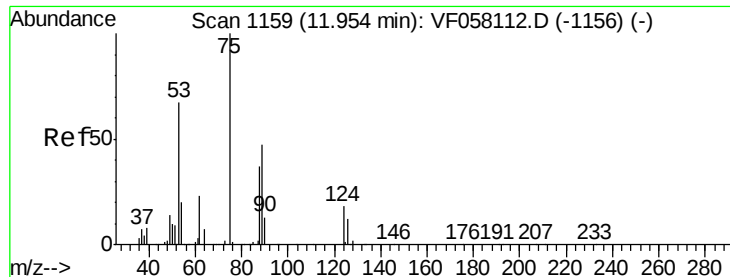
120 48.7 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 9.60 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

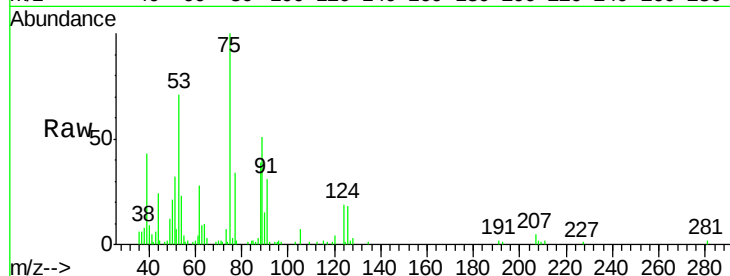
Tgt Ion: 75 Resp: 25183

Ion Ratio Lower Upper

75 100

53 70.5 58.7 88.1

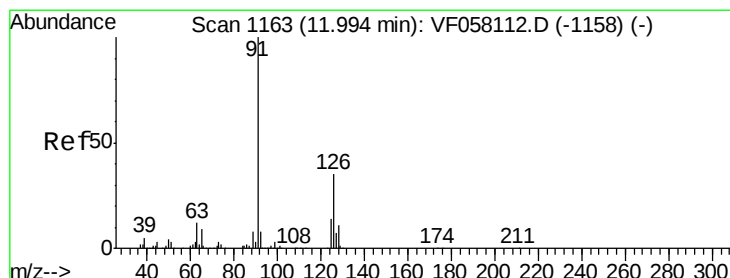
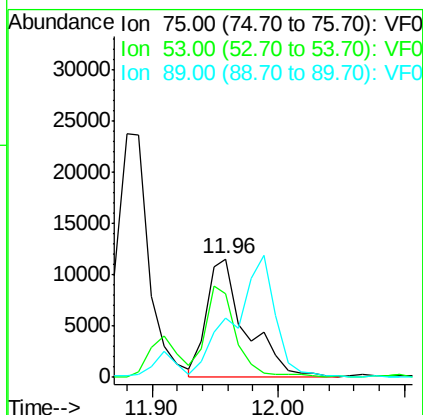
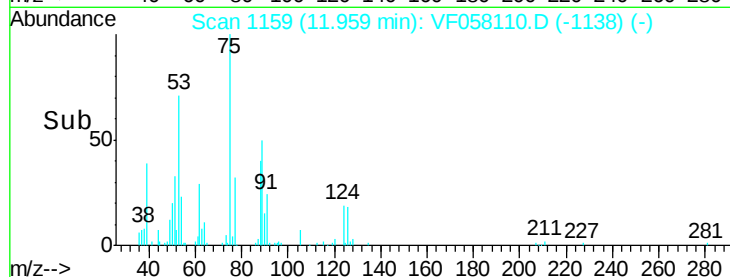
89 50.7 39.8 59.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 10.21 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VF058110.D

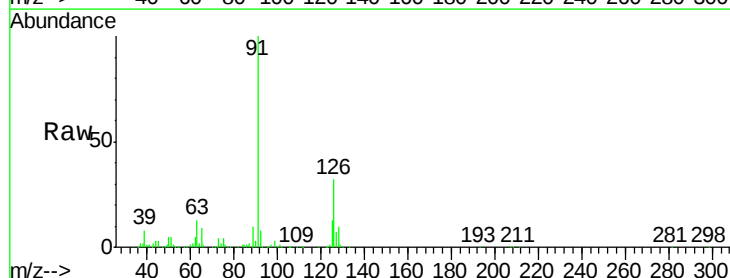
Acq: 6 Jun 2018 16:45

Tgt Ion: 91 Resp: 180233

Ion Ratio Lower Upper

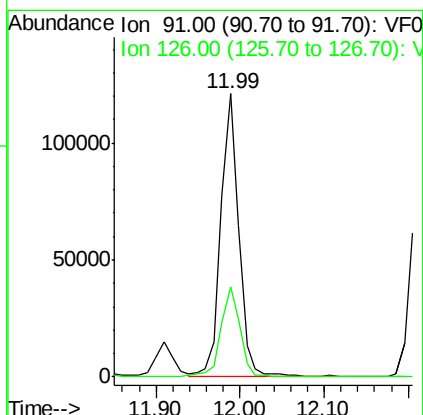
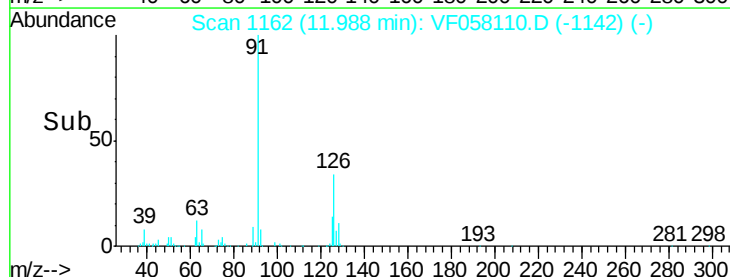
91 100

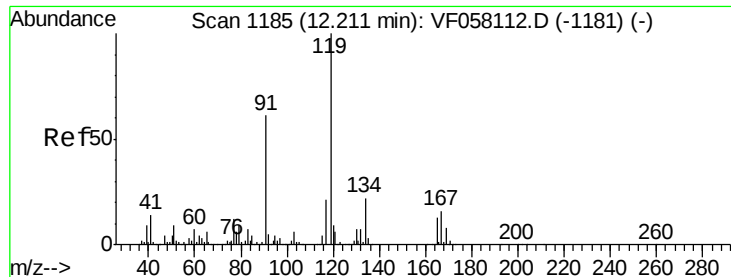
126 32.0 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 10.18 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

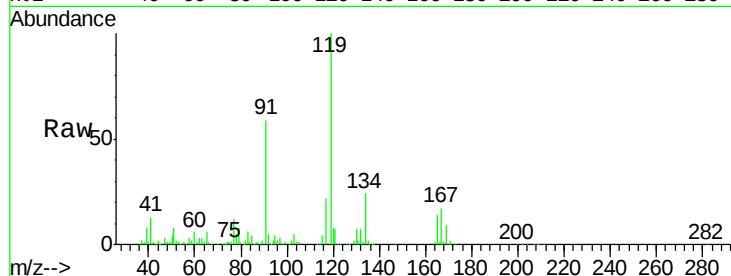
Tgt Ion:119 Resp: 200073

Ion Ratio Lower Upper

119 100

91 58.9 30.4 91.3

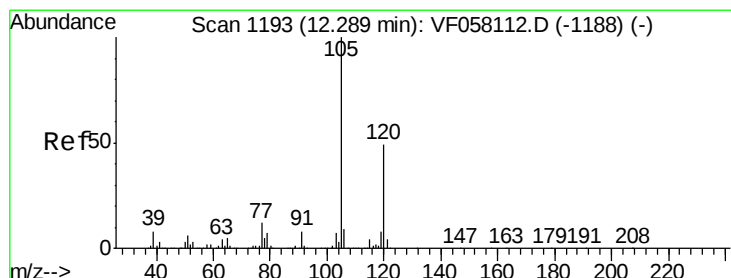
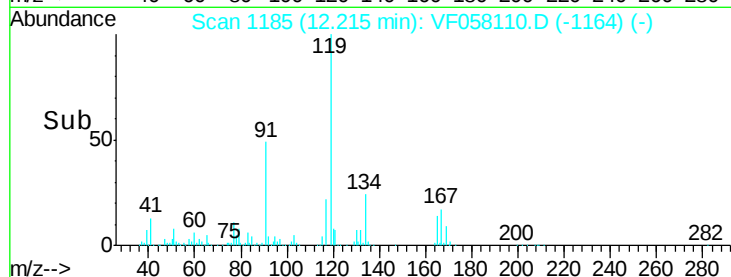
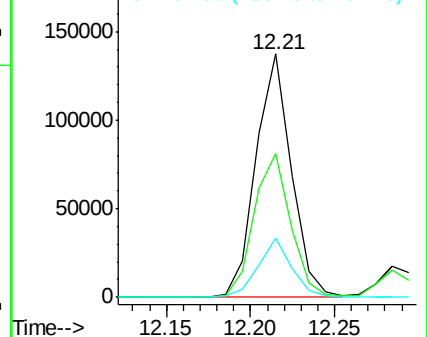
134 24.3 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 10.43 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF058110.D

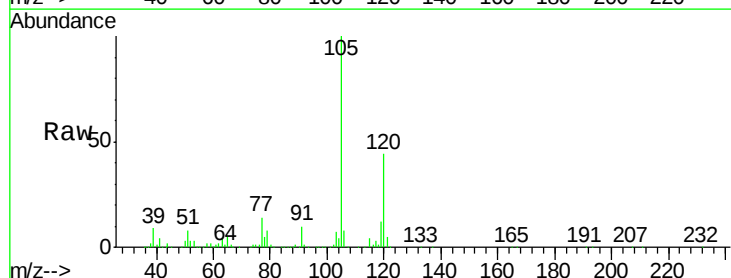
Acq: 6 Jun 2018 16:45

Tgt Ion:105 Resp: 212608

Ion Ratio Lower Upper

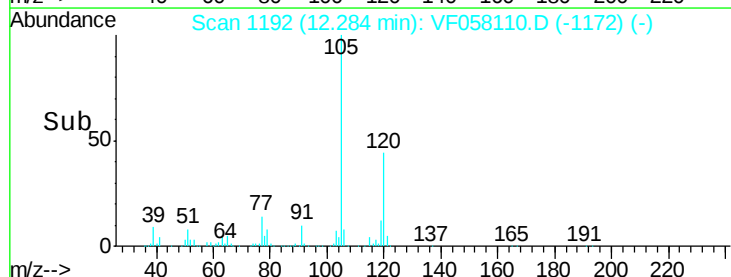
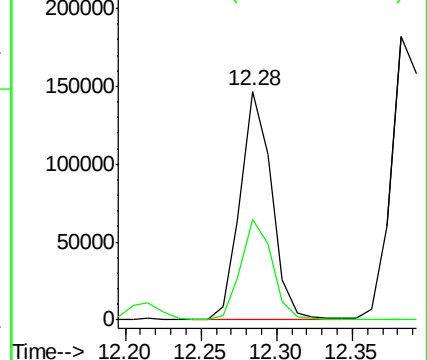
105 100

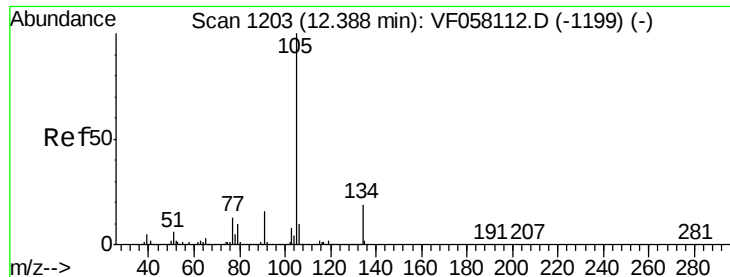
120 43.7 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

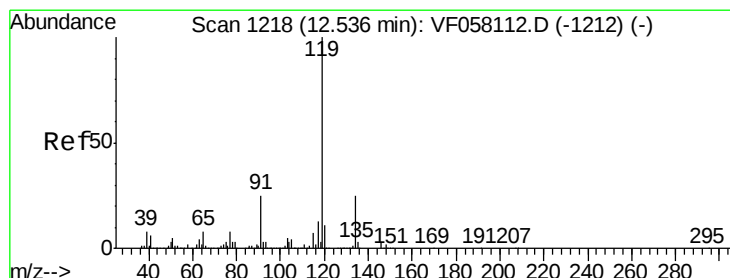
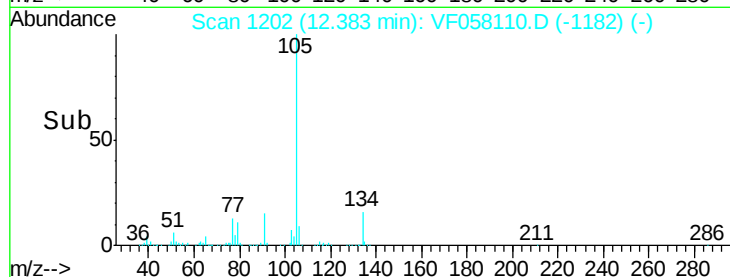
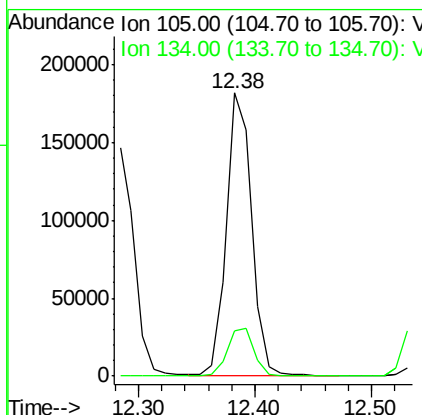
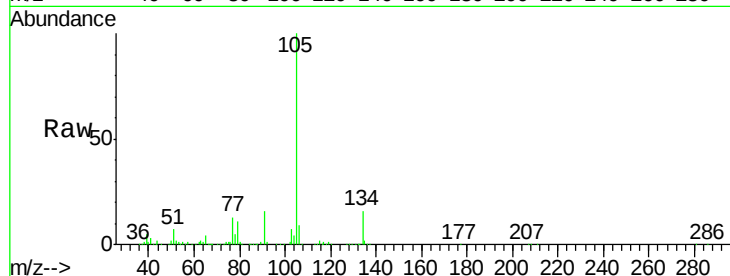




#85
 sec-Butylbenzene
 Concen: 10.25 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: VF058110.D
 Acq: 6 Jun 2018 16:45

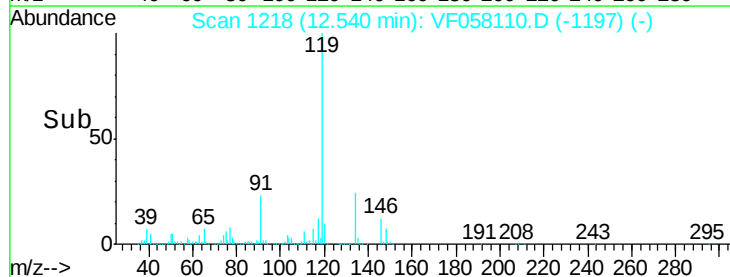
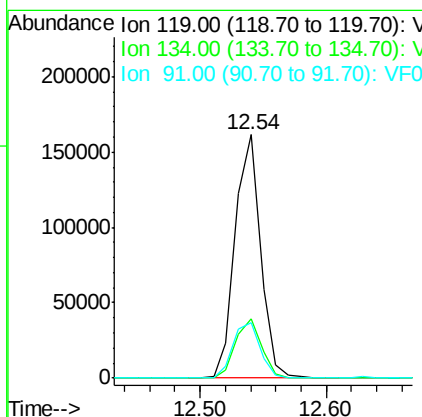
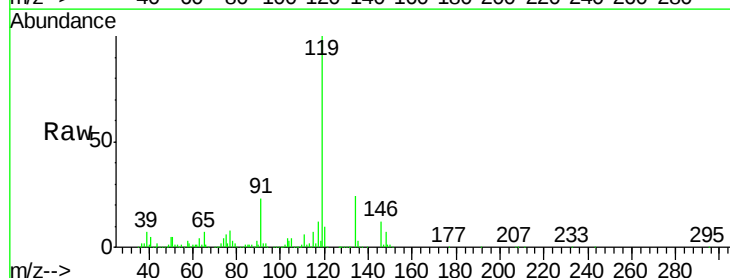
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

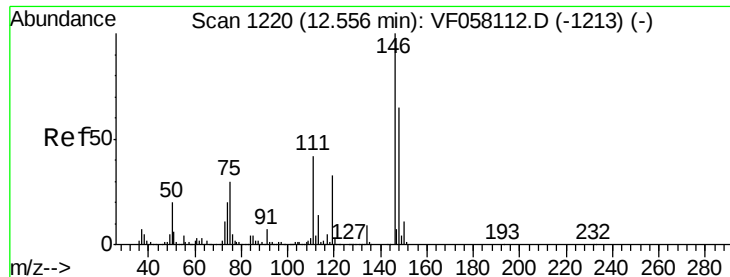
Tgt Ion:105 Resp: 272894
 Ion Ratio Lower Upper
 105 100
 134 16.0 9.6 28.6



#86
 p-Isopropyltoluene
 Concen: 10.10 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF058110.D
 Acq: 6 Jun 2018 16:45

Tgt Ion:119 Resp: 224174
 Ion Ratio Lower Upper
 119 100
 134 24.1 12.7 38.0
 91 22.8 12.6 37.6

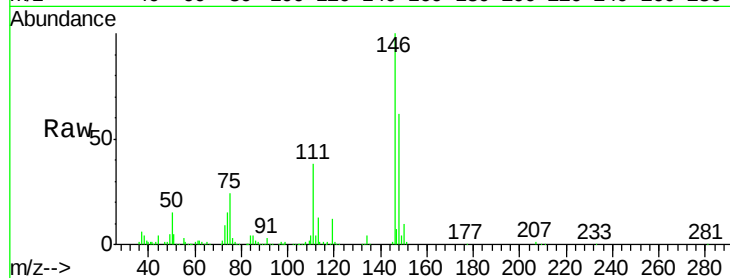




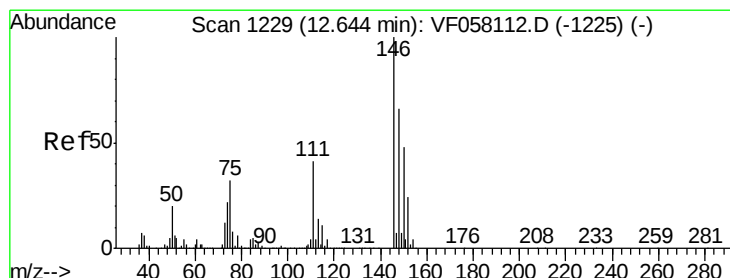
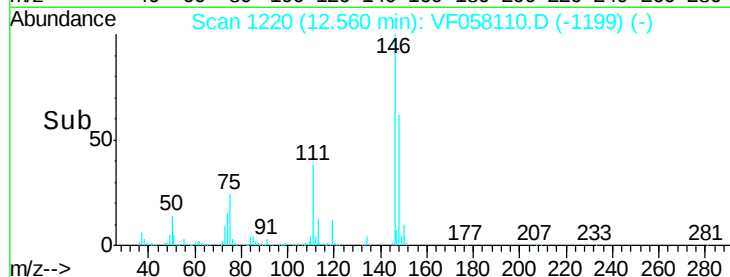
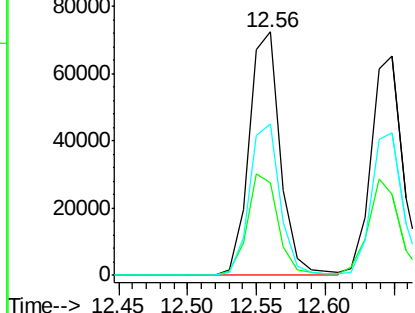
#87
 1,3-Dichlorobenzene
 Concen: 10.60 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF058110.D
 Acq: 6 Jun 2018 16:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	20.8	62.5
148	62.3	32.3	96.9

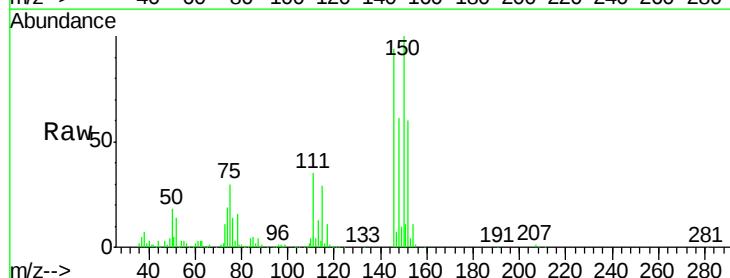


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

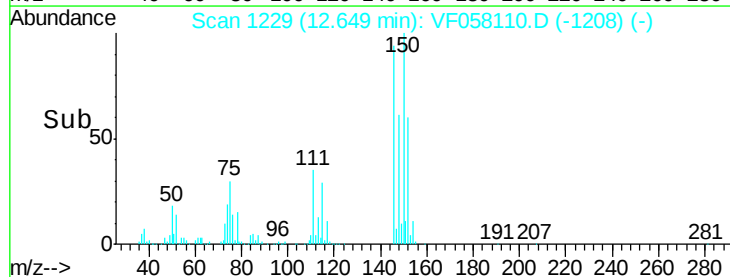
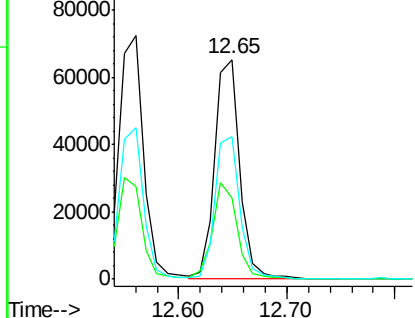


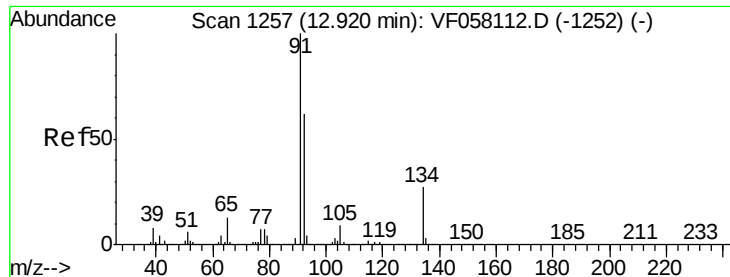
#88
 1,4-Dichlorobenzene
 Concen: 10.10 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VF058110.D
 Acq: 6 Jun 2018 16:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	20.4	61.2
148	64.9	33.0	99.0



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





#89

n-Butylbenzene

Concen: 10.42 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

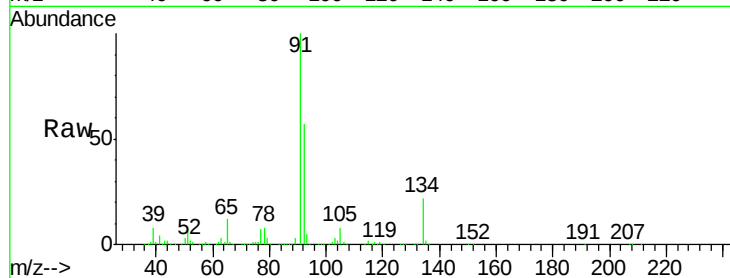
Tgt Ion: 91 Resp: 240956

Ion Ratio Lower Upper

91 100

92 57.3 31.1 93.5

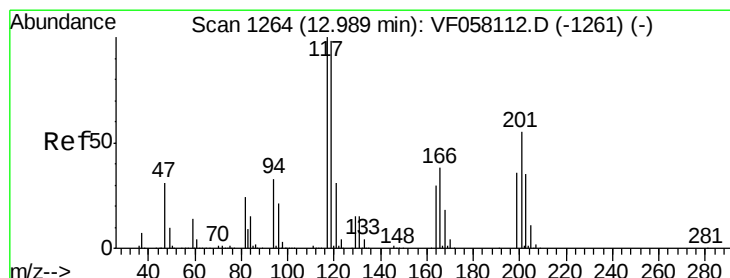
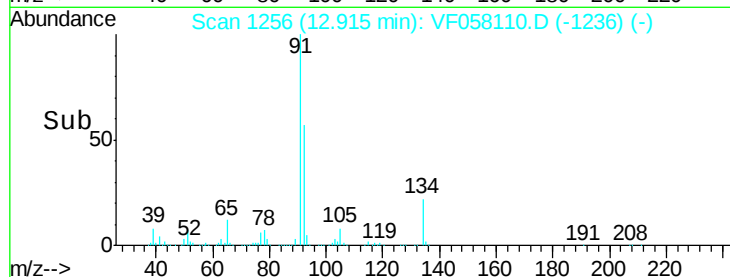
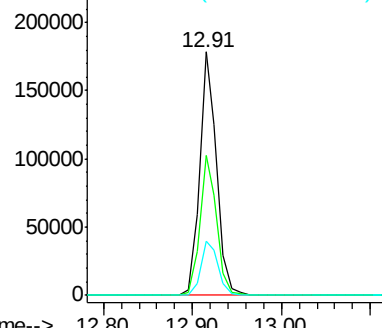
134 22.3 13.6 40.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 9.86 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VF058110.D

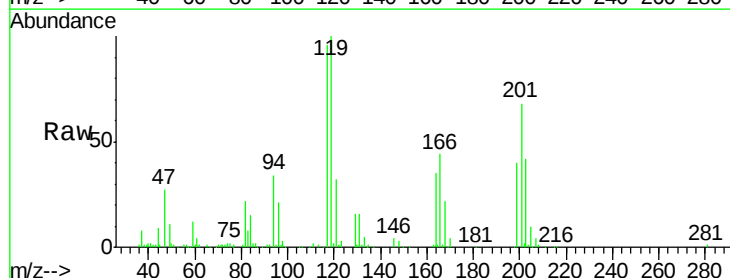
Acq: 6 Jun 2018 16:45

Tgt Ion: 117 Resp: 52773

Ion Ratio Lower Upper

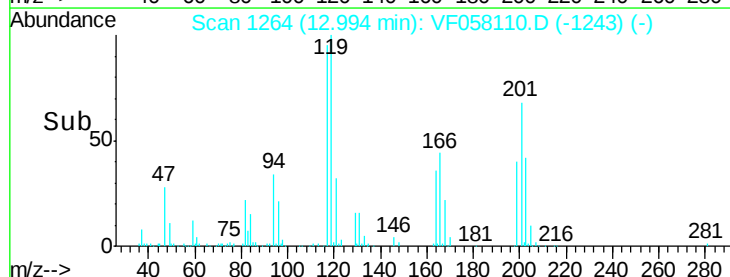
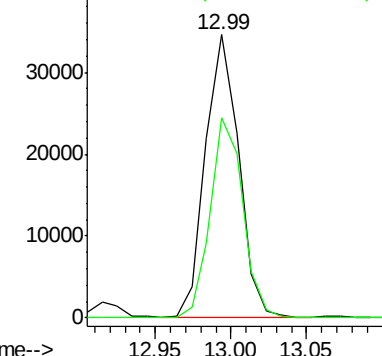
117 100

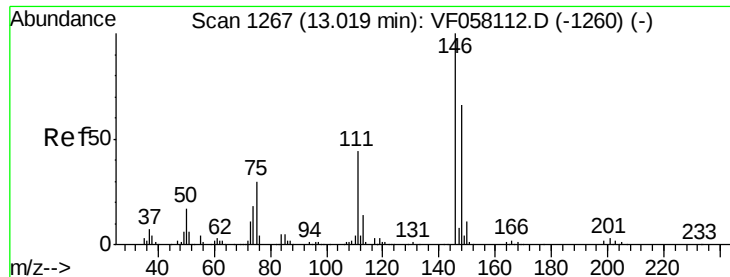
201 70.5 27.5 82.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 10.39 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

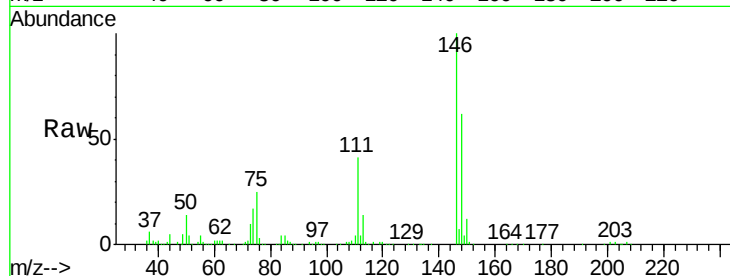
Tgt Ion:146 Resp: 109840

Ion Ratio Lower Upper

146 100

111 40.8 22.0 66.0

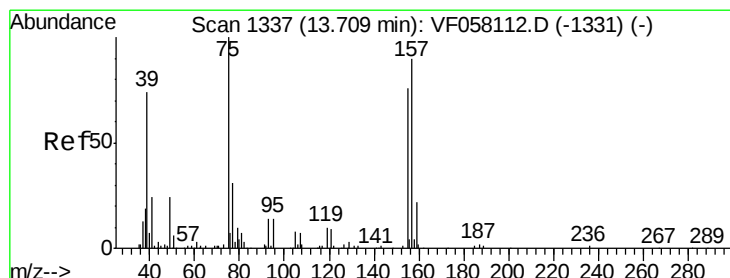
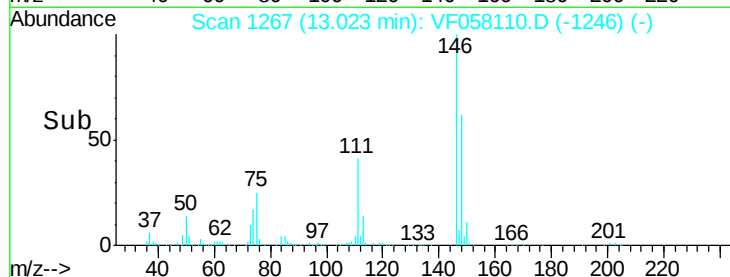
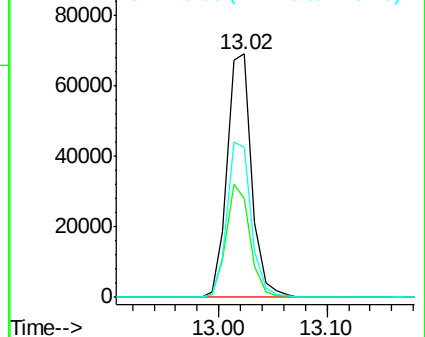
148 61.7 33.1 99.3



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: 9.48 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VF058110.D

Acq: 6 Jun 2018 16:45

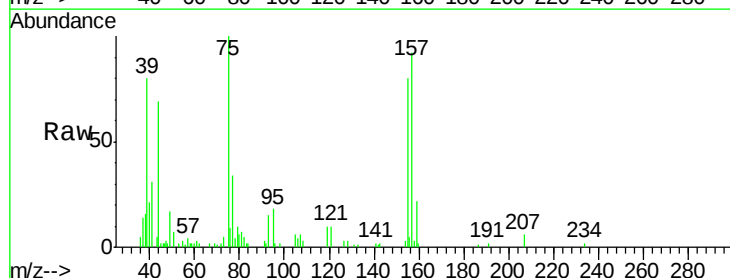
Tgt Ion: 75 Resp: 10265

Ion Ratio Lower Upper

75 100

155 79.5 38.0 114.0

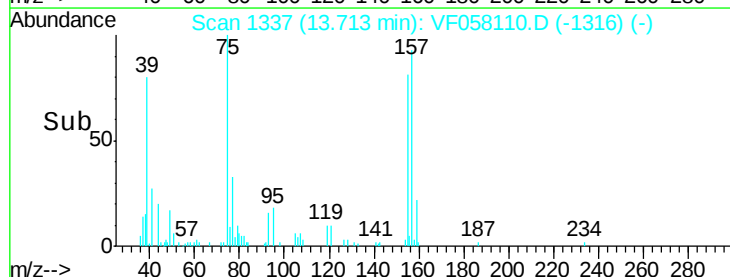
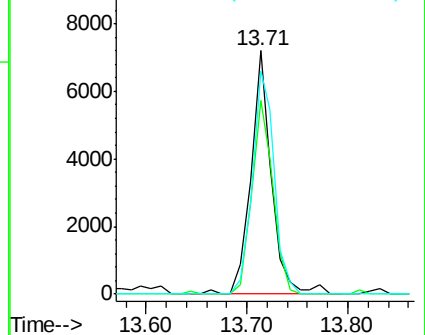
157 91.8 45.1 135.5

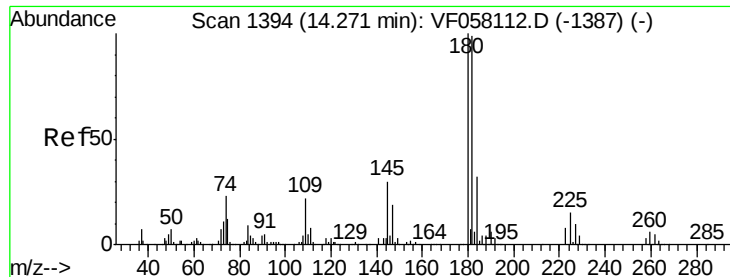


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

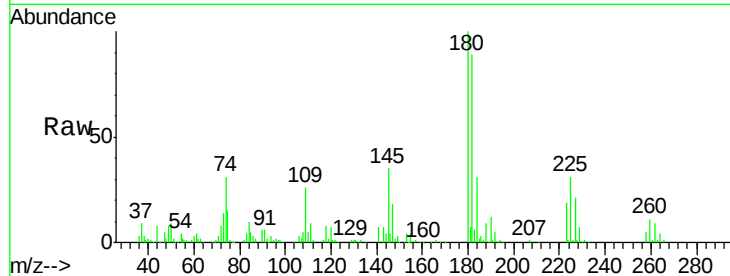




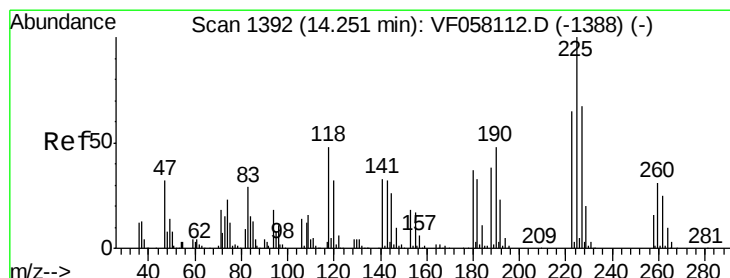
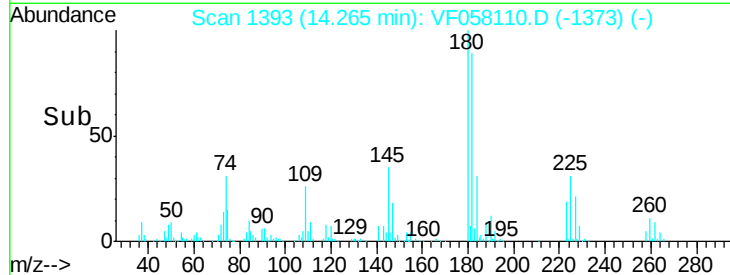
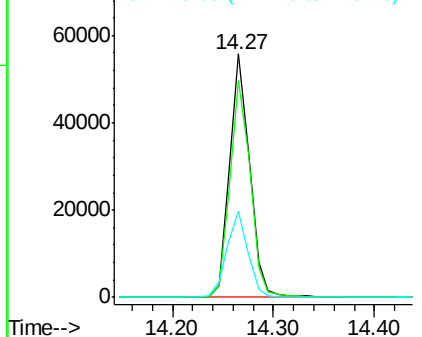
#93
 1,2,4-Trichlorobenzene
 Concen: 10.37 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF058110.D
 Acq: 6 Jun 2018 16:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion:180 Resp: 76883
 Ion Ratio Lower Upper
 180 100
 182 89.2 49.3 147.9
 145 35.2 14.9 44.9

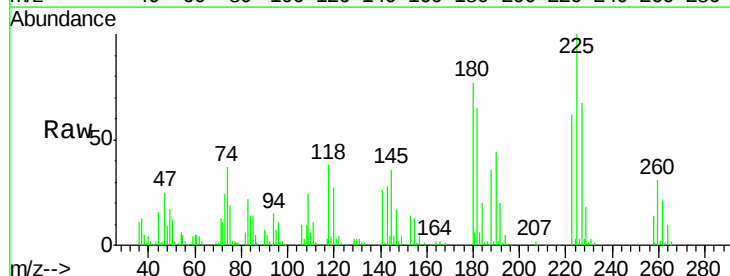


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

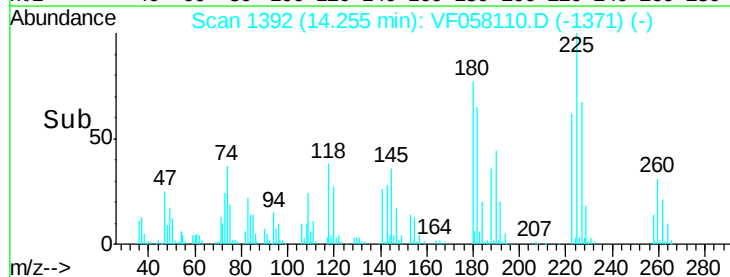
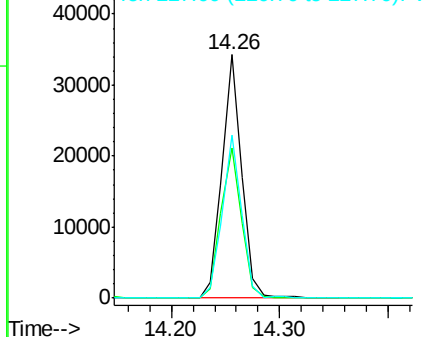


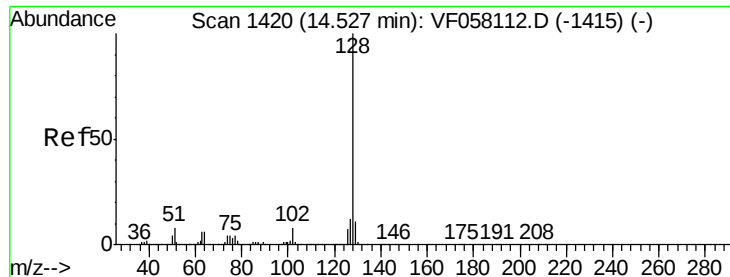
#94
 Hexachlorobutadiene
 Concen: 10.15 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VF058110.D
 Acq: 6 Jun 2018 16:45

Tgt Ion:225 Resp: 43459
 Ion Ratio Lower Upper
 225 100
 223 61.6 32.8 98.3
 227 67.1 33.3 99.9



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

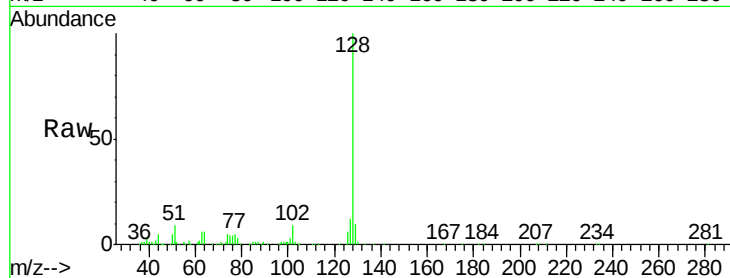




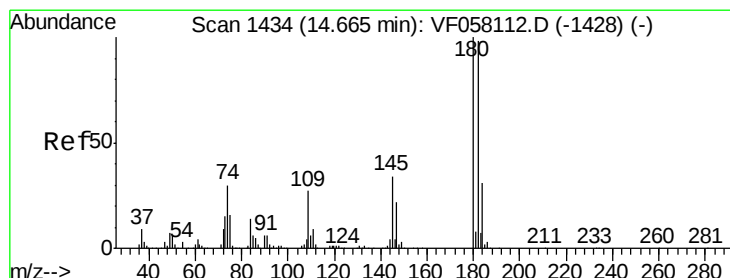
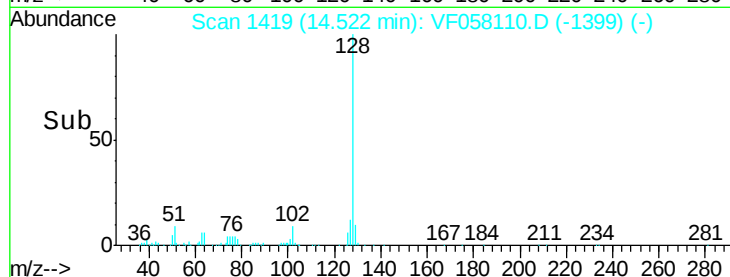
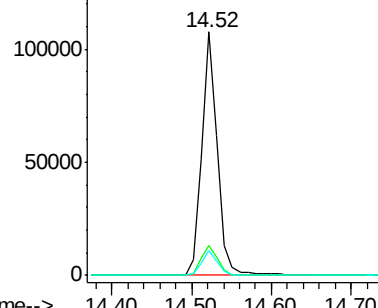
#95
Naphthalene
Concen: 9.37 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. -0.01 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion:128 Resp: 148335
Ion Ratio Lower Upper
128 100
127 12.1 9.9 14.9
129 10.2 8.7 13.1

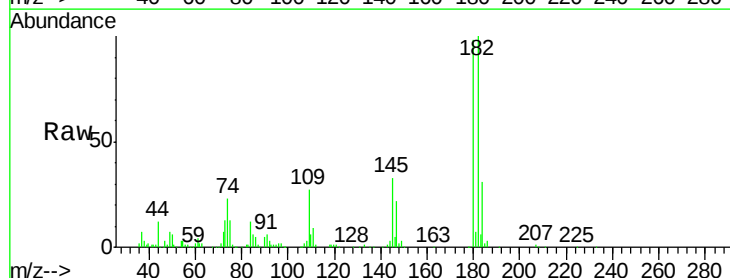


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 9.01 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF058110.D
Acq: 6 Jun 2018 16:45

Tgt Ion:180 Resp: 62947
Ion Ratio Lower Upper
180 100
182 101.5 48.9 146.6
145 33.6 17.3 51.7



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

