

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF060618\
 Data File : VF058109.D
 Acq On : 6 Jun 2018 16:17
 Operator : JC/SY
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Quant Time: Jun 07 05:56:41 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	381929	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	588672	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	580773	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	351147	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	23687	4.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.98%	
35) Dibromofluoromethane	4.29	113	22096	5.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.12%	
50) Toluene-d8	7.71	98	67651	5.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.46%	
62) 4-Bromofluorobenzene	11.51	95	36204	5.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.18%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	22558	4.89	ug/l	96
3) Chloromethane	1.09	50	18648	5.10	ug/l	94
4) Vinyl Chloride	1.15	62	15123	4.96	ug/l	94
5) Bromomethane	1.33	94	9499	5.50	ug/l	97
6) Chloroethane	1.42	64	5596	4.31	ug/l	90
7) Trichlorofluoromethane	1.48	101	11248	2.43	ug/l	98
8) Diethyl Ether	1.70	74	6973	6.18	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.90	101	16564	5.80	ug/l	94
10) Methyl Iodide	1.93	142	9338	1.84	ug/l	93
11) Tert butyl alcohol	2.69	59	9047	33.33	ug/l #	90
12) 1,1-Dichloroethene	1.86	96	13680	5.50	ug/l	81
13) Acrolein	2.08	56	7706	43.64	ug/l	95
14) Allyl chloride	2.18	41	28959	6.09	ug/l	96
15) Acrylonitrile	3.07	53	13735	21.89	ug/l	93
16) Acetone	2.33	43	29133	28.03	ug/l	95
17) Carbon Disulfide	1.84	76	11237	1.58	ug/l	99
18) Methyl Acetate	2.53	43	13553	6.99	ug/l	100
19) Methyl tert-butyl Ether	2.54	73	41076	5.28	ug/l	97
20) Methylene Chloride	2.28	84	9973	3.92	ug/l	85
21) trans-1,2-Dichloroethene	2.41	96	15816	5.90	ug/l	89
22) Diisopropyl ether	2.92	45	52920	5.69	ug/l #	94
23) Vinyl Acetate	3.32	43	163738	24.03	ug/l	99
24) 1,1-Dichloroethane	3.00	63	30740	5.34	ug/l	97
25) 2-Butanone	4.51	43	48026	28.48	ug/l	99
26) 2,2-Dichloropropane	3.75	77	24046	5.91	ug/l	91
27) cis-1,2-Dichloroethene	3.63	96	22285	5.00	ug/l	95
28) Bromochloromethane	3.89	49	13052	5.13	ug/l	82
29) Tetrahydrofuran	4.25	42	19587	25.17	ug/l	96
30) Chloroform	4.03	83	44370	5.13	ug/l	96
31) Cyclohexane	3.86	56	29184	5.38	ug/l #	85
32) 1,1,1-Trichloroethane	4.27	97	33322	5.43	ug/l	92
36) 1,1-Dichloropropene	4.46	75	31751	5.33	ug/l	92
37) Ethyl Acetate	4.29	43	19946	5.68	ug/l	90
38) Carbon Tetrachloride	4.16	117	37049	5.86	ug/l #	93

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 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Quant Time: Jun 07 05:56:41 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)
39) Methylcyclohexane	5.62	83	33253	5.41	ug/l	94
40) Benzene	4.80	78	77025	5.53	ug/l	94
41) Methacrylonitrile	4.92	41	9267	5.21	ug/l	96
42) 1,2-Dichloroethane	5.12	62	29495	4.93	ug/l	94
43) Isopropyl Acetate	7.11	43	25960	5.45	ug/l #	94
44) Trichloroethene	5.67	130	23200	5.34	ug/l	99
45) 1,2-Dichloropropane	6.41	63	20827	5.14	ug/l	97
46) Dibromomethane	6.24	93	14403	4.71	ug/l	88
47) Bromodichloromethane	6.55	83	35052	5.19	ug/l #	95
48) Methyl methacrylate	6.87	41	13916	4.63	ug/l	92
49) 1,4-Dioxane	6.86	88	2481	119.51	ug/l	96
51) 4-Methyl-2-Pentanone	8.40	43	96391	29.17	ug/l	98
52) Toluene	7.78	92	54112	5.47	ug/l	99
53) t-1,3-Dichloropropene	8.42	75	36543	5.67	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	37975	5.13	ug/l	96
55) 1,1,2-Trichloroethane	8.64	97	17884	4.97	ug/l	95
56) Ethyl methacrylate	8.76	69	22419	4.93	ug/l	97
57) 1,3-Dichloropropane	8.99	76	30967	4.94	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.78	63	8828	28.06	ug/l	100
59) 2-Hexanone	9.63	43	79167	30.60	ug/l	97
60) Dibromochloromethane	8.86	129	25279	4.94	ug/l	97
61) 1,2-Dibromoethane	9.13	107	21075	4.91	ug/l	100
64) Tetrachloroethene	8.30	164	23920	5.46	ug/l	93
65) Chlorobenzene	9.94	112	61824	5.25	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.07	131	24094	5.24	ug/l	90
67) Ethyl Benzene	10.04	91	108859	5.26	ug/l	99
68) m/p-Xylenes	10.26	106	83104	10.84	ug/l	92
69) o-Xylene	10.83	106	44529	5.33	ug/l	91
70) Styrene	10.91	104	68888	5.50	ug/l	93
71) Bromoform	10.89	173	15018	4.75	ug/l	97
73) Isopropylbenzene	11.23	105	136653	5.48	ug/l	100
74) N-amyl acetate	11.47	43	47290	5.09	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	11.78	83	31810	5.33	ug/l	97
76) 1,2,3-Trichloropropane	11.88	75	22771	5.22	ug/l	98
77) Bromobenzene	11.60	156	32593	5.24	ug/l	88
78) n-propylbenzene	11.68	91	165799	5.56	ug/l	95
79) 2-Chlorotoluene	11.81	91	97152	5.52	ug/l	93
80) 1,3,5-Trimethylbenzene	11.91	105	115182	5.57	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.95	75	15388	5.57	ug/l	93
82) 4-Chlorotoluene	11.99	91	103493	5.58	ug/l	98
83) tert-Butylbenzene	12.22	119	114912	5.56	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	118764	5.54	ug/l	93
85) sec-Butylbenzene	12.38	105	160362	5.73	ug/l	93
86) p-Isopropyltoluene	12.54	119	123761	5.30	ug/l	98
87) 1,3-Dichlorobenzene	12.55	146	66109	5.77	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	59836	5.44	ug/l	90
89) n-Butylbenzene	12.92	91	136336	5.60	ug/l	89
90) Hexachloroethane	12.99	117	29014	5.15	ug/l	79
91) 1,2-Dichlorobenzene	13.01	146	60651	5.45	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.71	75	5238	4.60	ug/l	71

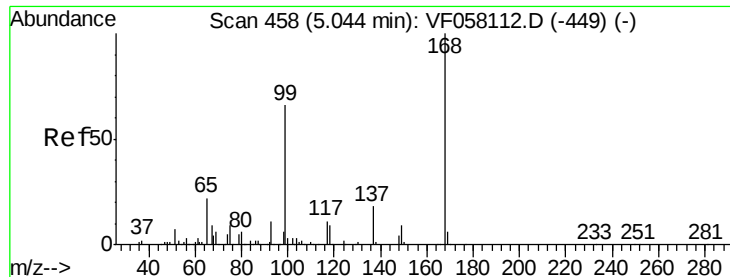
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF060618\
Data File : VF058109.D
Acq On : 6 Jun 2018 16:17
Operator : JC/SY
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC005

Quant Time: Jun 07 05:56:41 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)
93) 1,2,4-Trichlorobenzene	14.27	180	41375	5.30	ug/l	95
94) Hexachlorobutadiene	14.26	225	23859	5.30	ug/l	95
95) Naphthalene	14.52	128	82743	4.97	ug/l	97
96) 1,2,3-Trichlorobenzene	14.67	180	36180	4.92	ug/l	96

(#) = 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. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

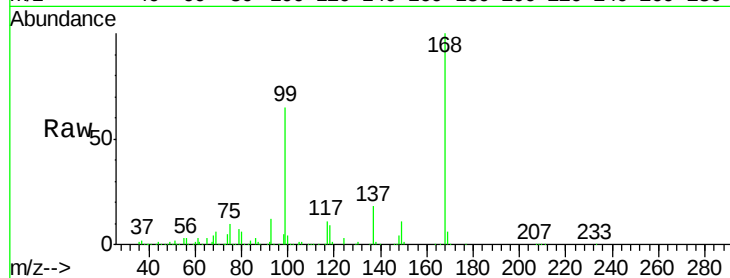
VSTDIC005

Tgt Ion:168 Resp: 381929

Ion Ratio Lower Upper

168 100

99 65.2 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

150000

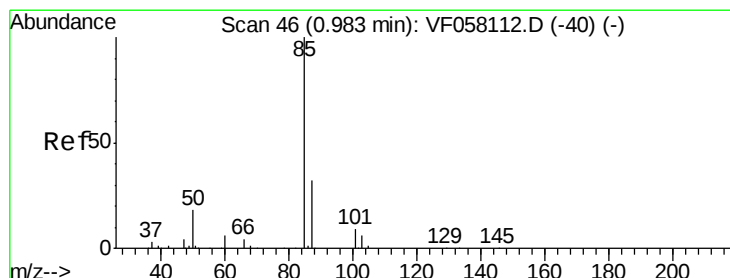
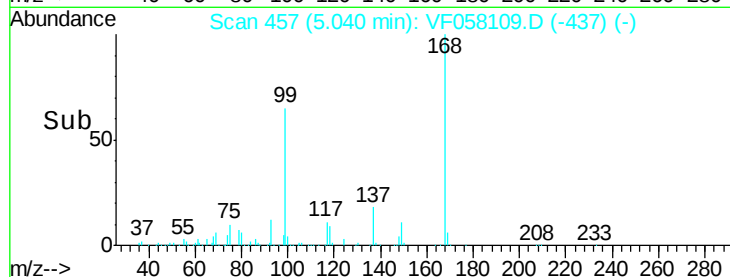
100000

50000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 4.89 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF058109.D

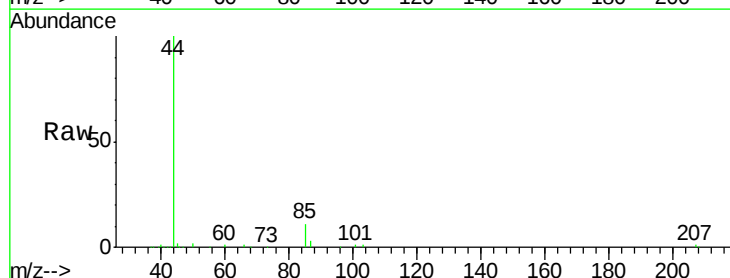
Acq: 6 Jun 2018 16:17

Tgt Ion: 85 Resp: 22558

Ion Ratio Lower Upper

85 100

87 30.1 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

6000

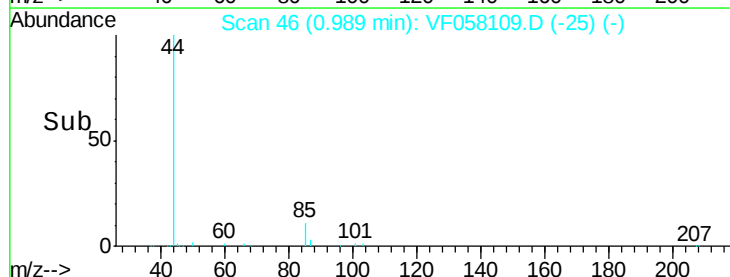
4000

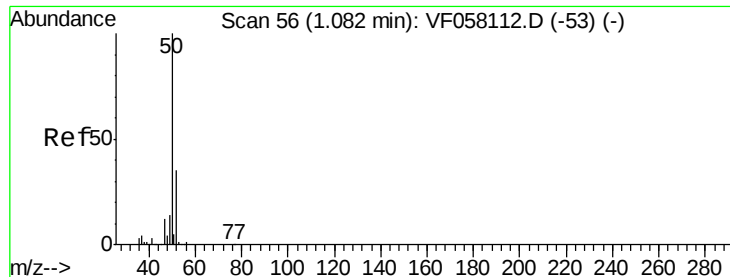
2000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 5.10 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

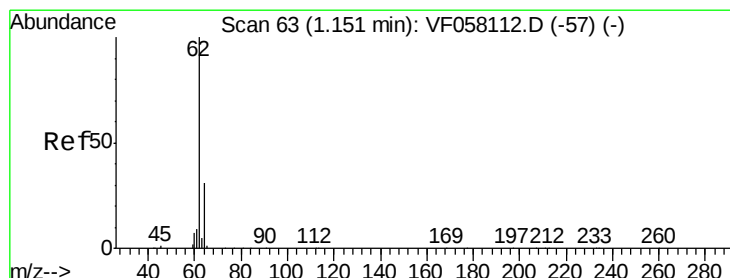
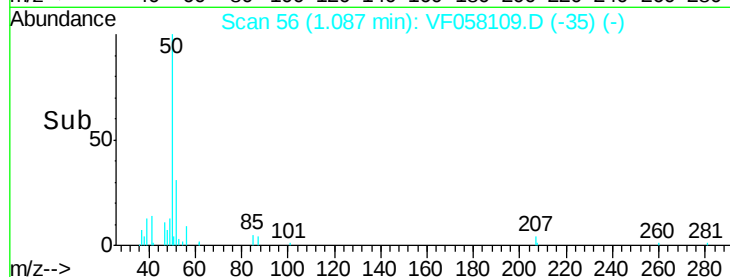
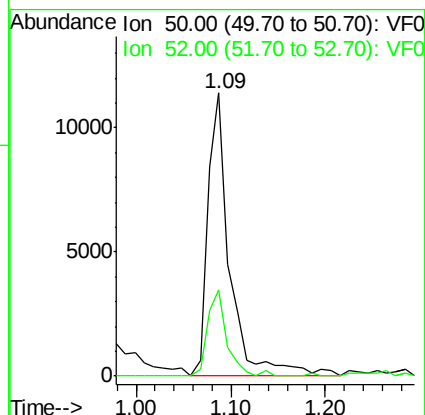
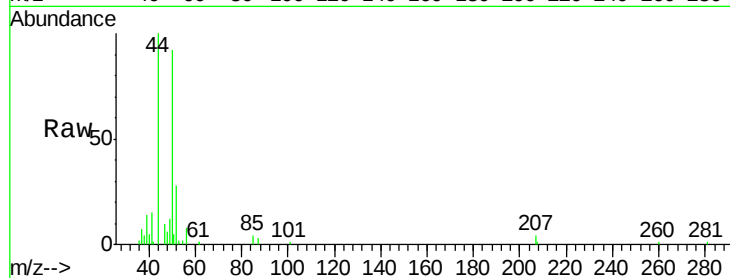
VSTDIC005

Tgt Ion: 50 Resp: 18648

Ion Ratio Lower Upper

50 100

52 30.4 27.3 40.9



#4

Vinyl Chloride

Concen: 4.96 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.00 min

Lab File: VF058109.D

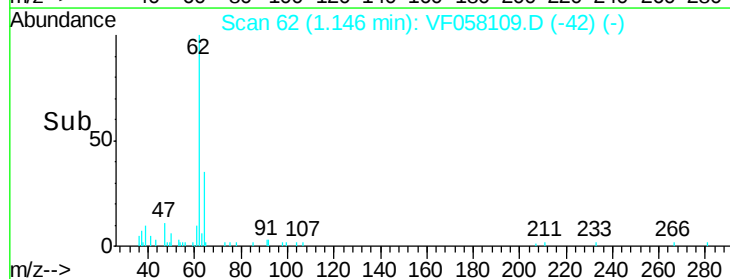
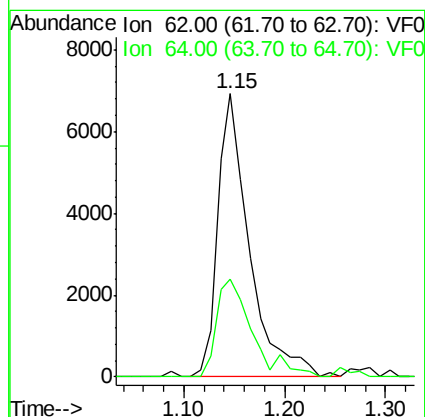
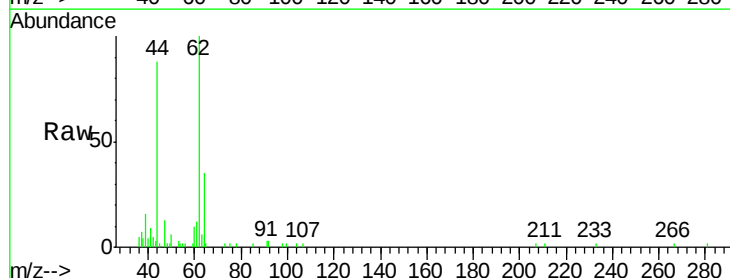
Acq: 6 Jun 2018 16:17

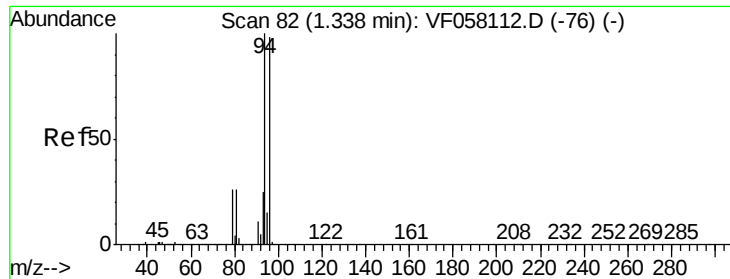
Tgt Ion: 62 Resp: 15123

Ion Ratio Lower Upper

62 100

64 34.7 25.0 37.6





#5

Bromomethane

Concen: 5.50 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

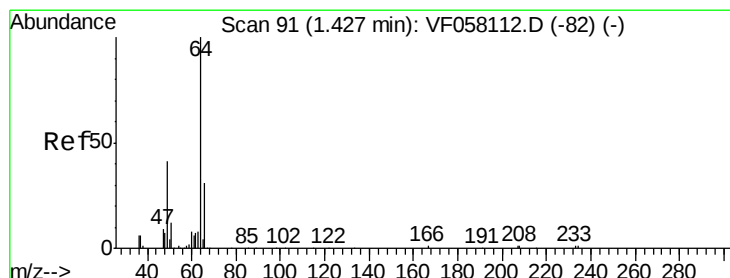
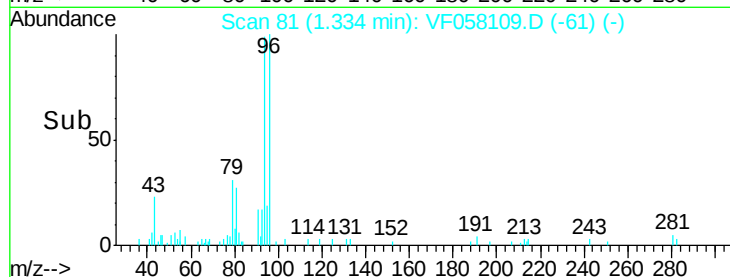
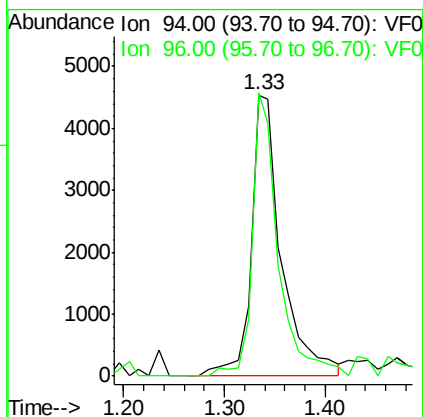
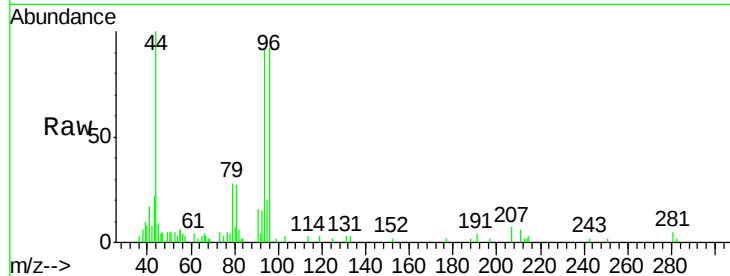
VSTDIC005

Tgt Ion: 94 Resp: 9499

Ion Ratio Lower Upper

94 100

96 100.7 78.6 117.8



#6

Chloroethane

Concen: 4.31 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.00 min

Lab File: VF058109.D

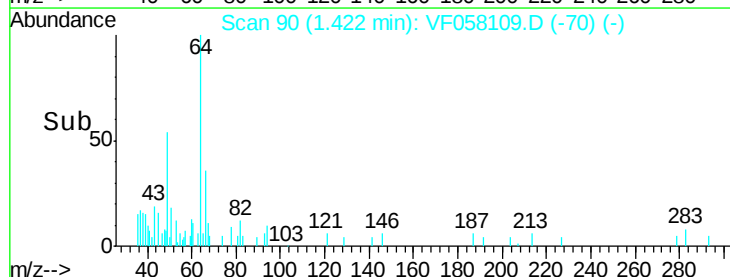
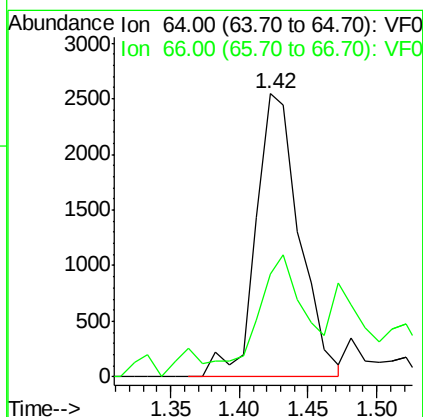
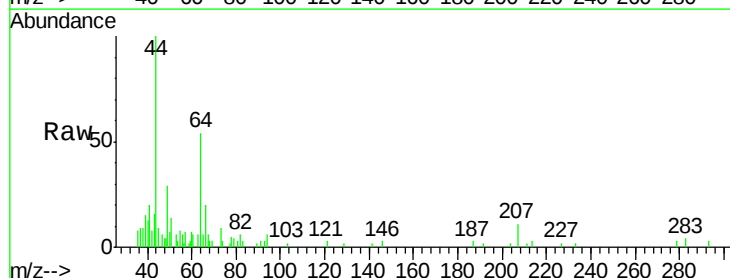
Acq: 6 Jun 2018 16:17

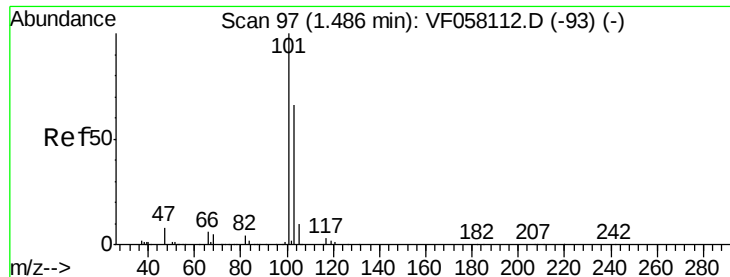
Tgt Ion: 64 Resp: 5596

Ion Ratio Lower Upper

64 100

66 36.4 24.9 37.3





#7

Trichlorofluoromethane

Concen: 2.43 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

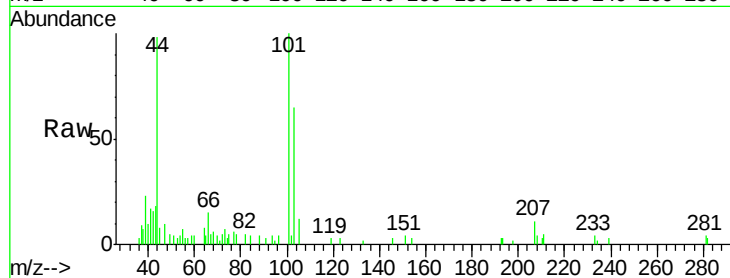
VSTDIC005

Tgt Ion:101 Resp: 11248

Ion Ratio Lower Upper

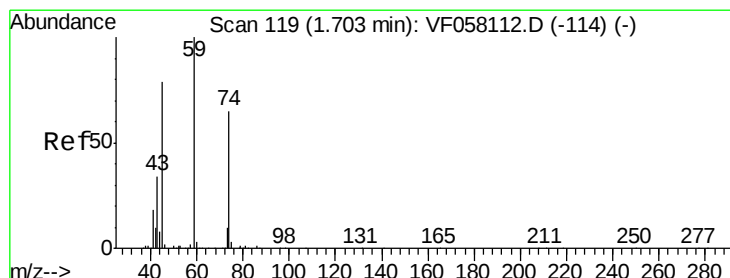
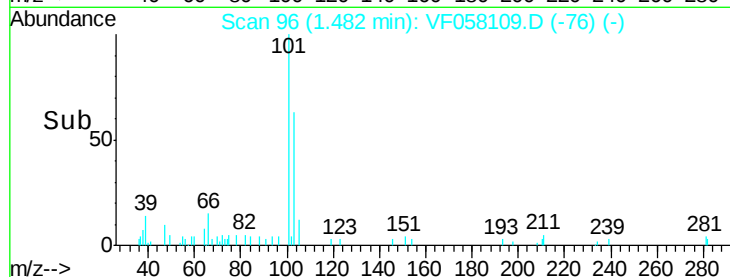
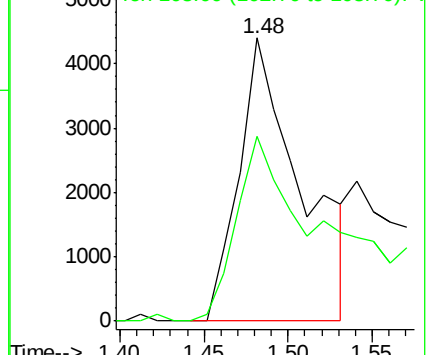
101 100

103 65.4 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: 6.18 ug/l

RT: 1.70 min Scan# 118

Delta R.T. -0.00 min

Lab File: VF058109.D

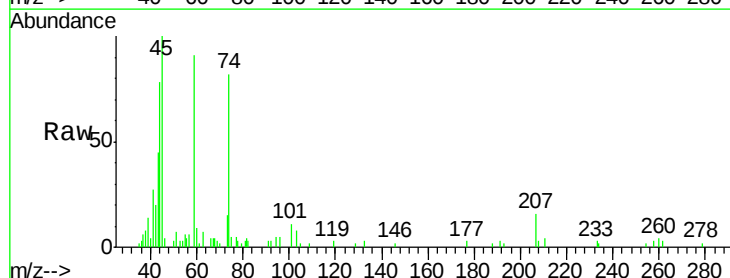
Acq: 6 Jun 2018 16:17

Tgt Ion: 74 Resp: 6973

Ion Ratio Lower Upper

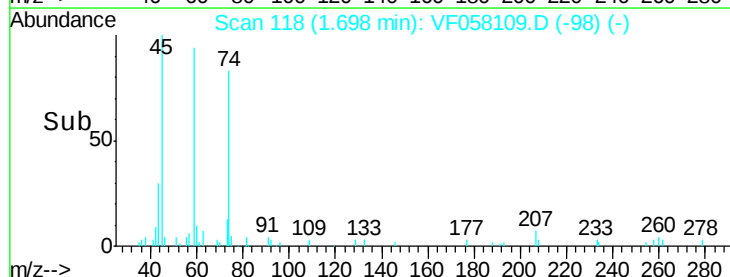
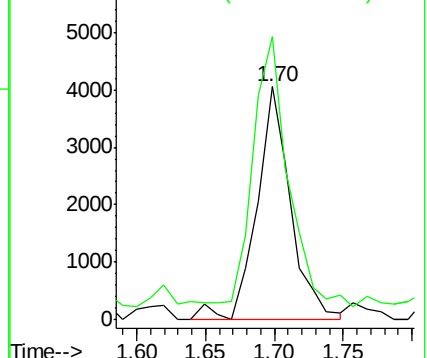
74 100

45 121.3 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: 5.80 ug/l

RT: 1.90 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

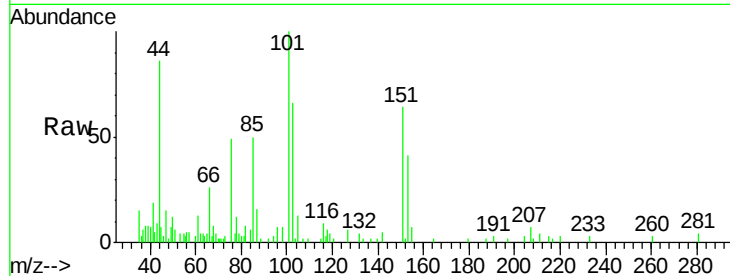
Tgt Ion:101 Resp: 16564

Ion Ratio Lower Upper

101 100

85 49.9 42.2 63.4

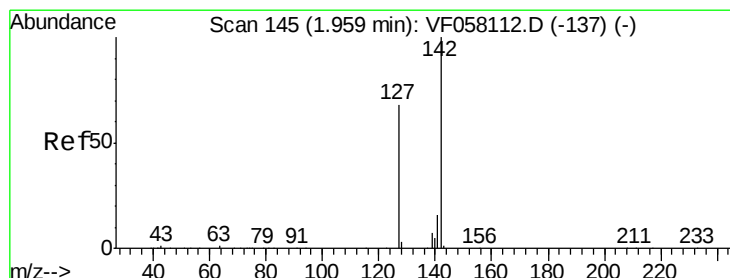
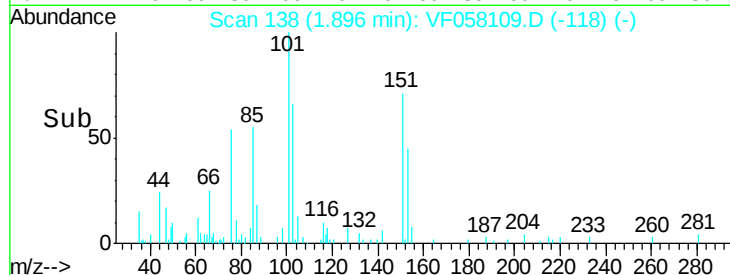
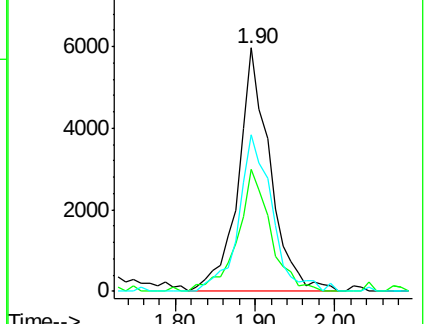
151 64.3 56.8 85.2



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: 1.84 ug/l

RT: 1.93 min Scan# 141

Delta R.T. -0.03 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

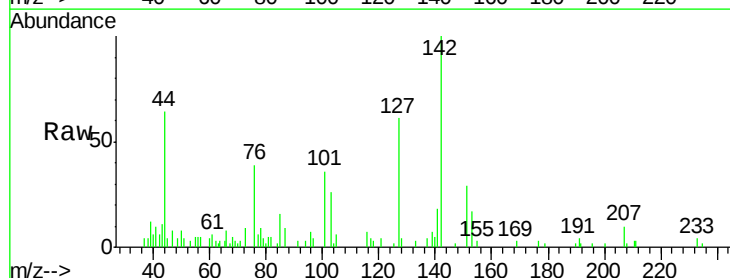
Tgt Ion:142 Resp: 9338

Ion Ratio Lower Upper

142 100

127 61.0 54.1 81.1

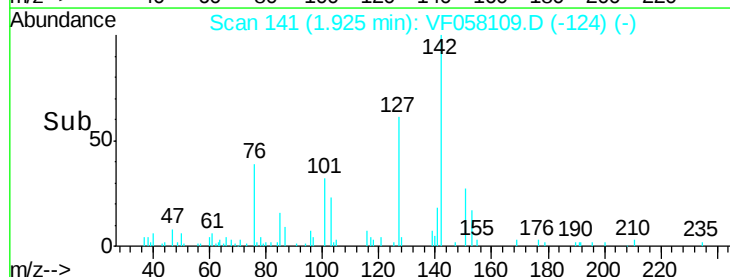
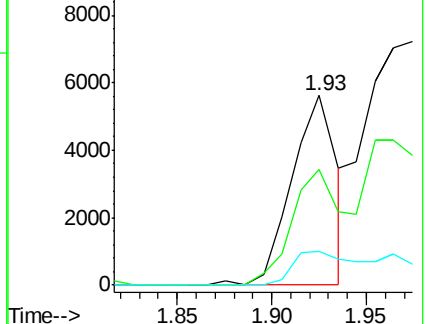
141 17.5 13.0 19.4

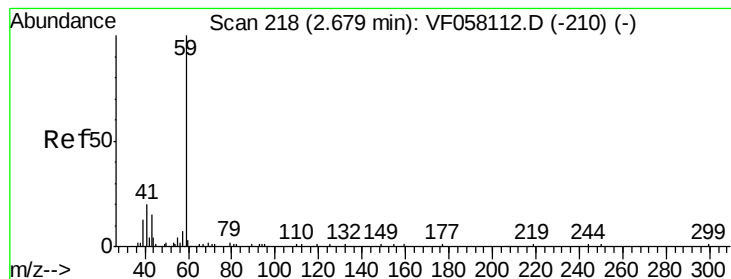


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#11

Tert butyl alcohol

Concen: 33.33 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.02 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

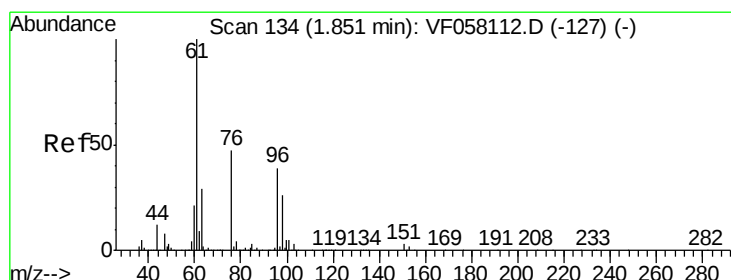
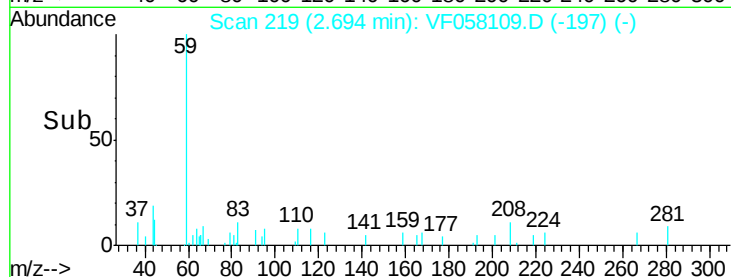
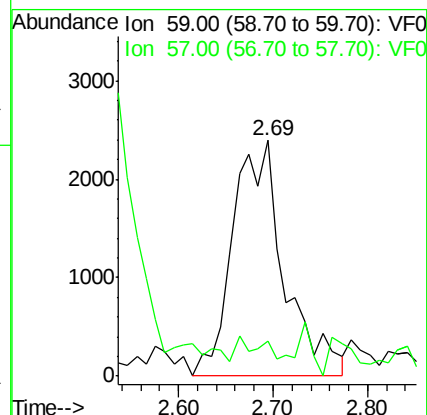
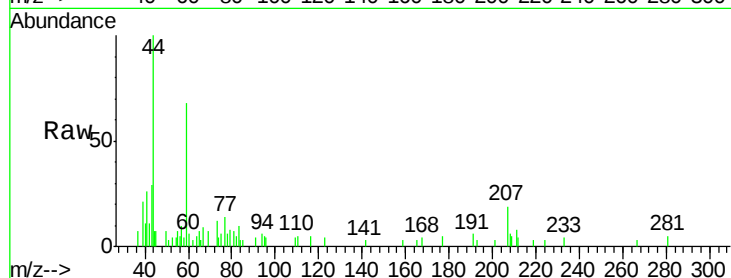
VSTDIC005

Tgt Ion: 59 Resp: 9047

Ion Ratio Lower Upper

59 100

57 14.8 8.7 13.1#



#12

1,1-Dichloroethene

Concen: 5.50 ug/l

RT: 1.86 min Scan# 134

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

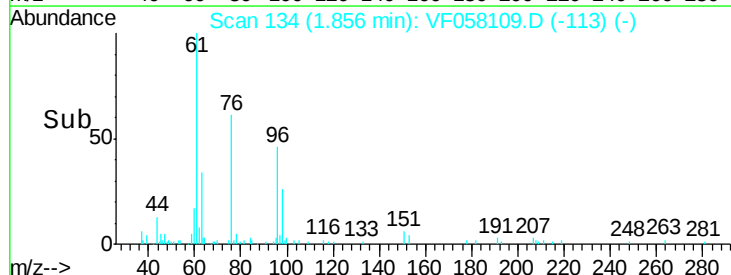
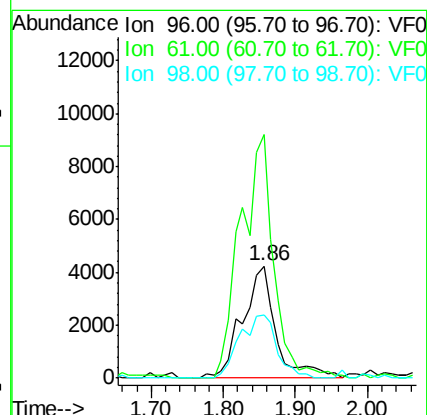
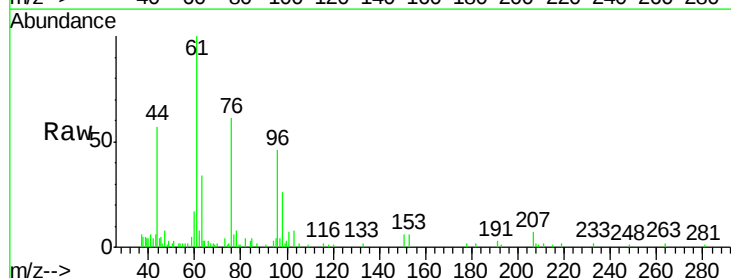
Tgt Ion: 96 Resp: 13680

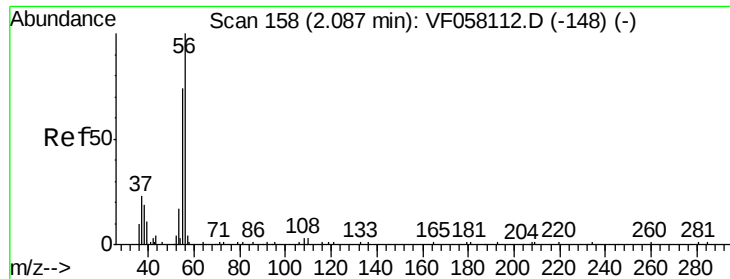
Ion Ratio Lower Upper

96 100

61 216.7 203.0 304.4

98 56.7 52.7 79.1





#13

Acrolein

Concen: 43.64 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

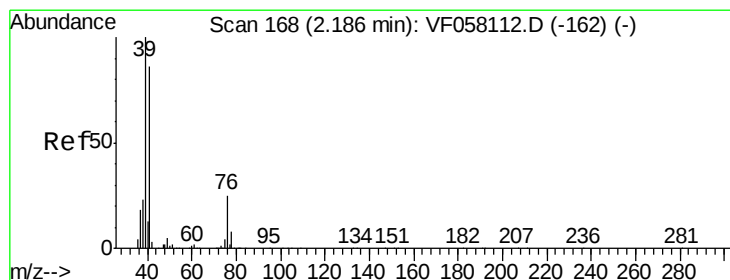
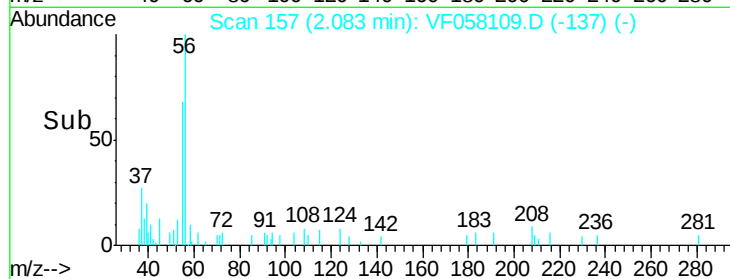
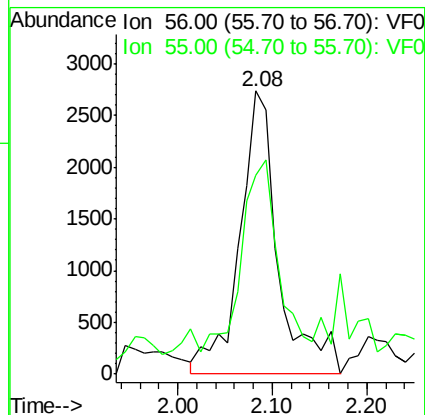
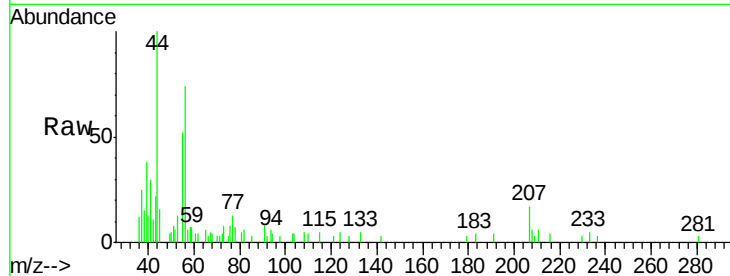
VSTDIC005

Tgt Ion: 56 Resp: 7706

Ion Ratio Lower Upper

56 100

55 70.5 60.0 90.0



#14

Allyl chloride

Concen: 6.09 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

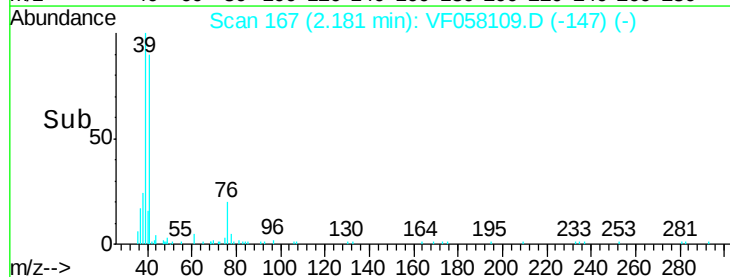
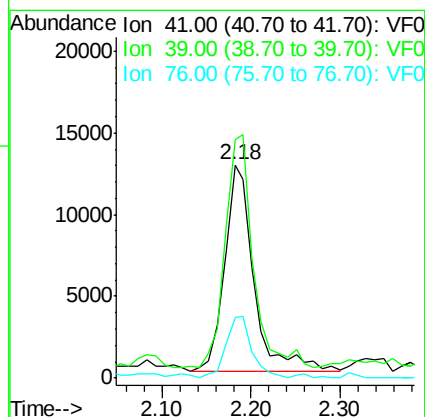
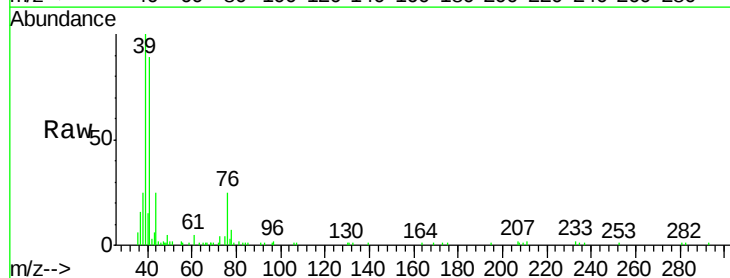
Tgt Ion: 41 Resp: 28959

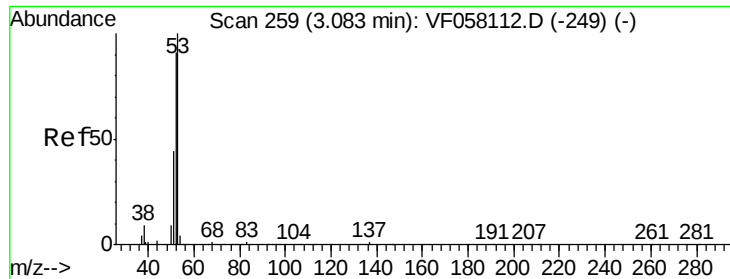
Ion Ratio Lower Upper

41 100

39 112.1 93.5 140.3

76 28.5 23.9 35.9





#15

Acrylonitrile

Concen: 21.89 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

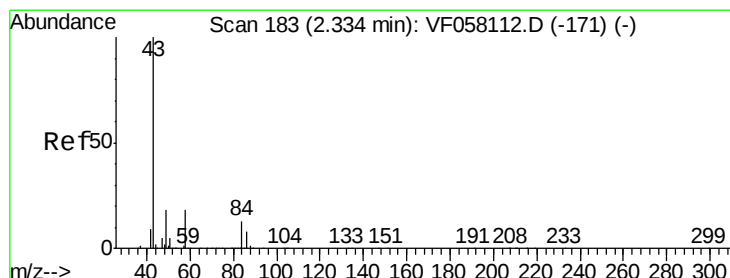
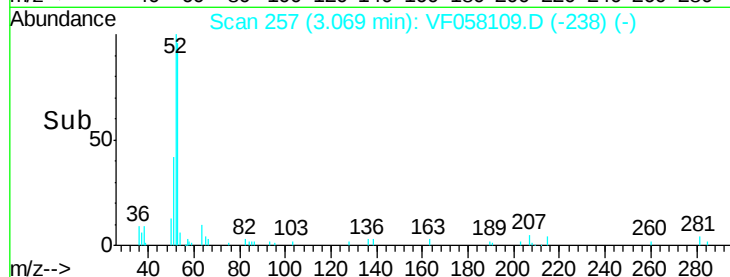
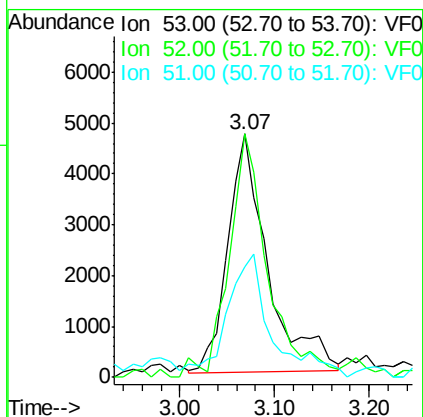
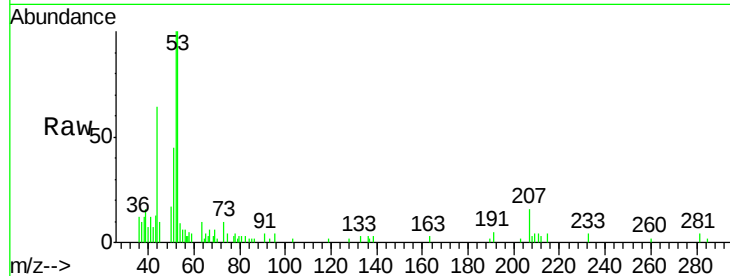
Tgt Ion: 53 Resp: 13735

Ion Ratio Lower Upper

53 100

52 100.2 73.2 109.8

51 45.5 35.6 53.4



#16

Acetone

Concen: 28.03 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF058109.D

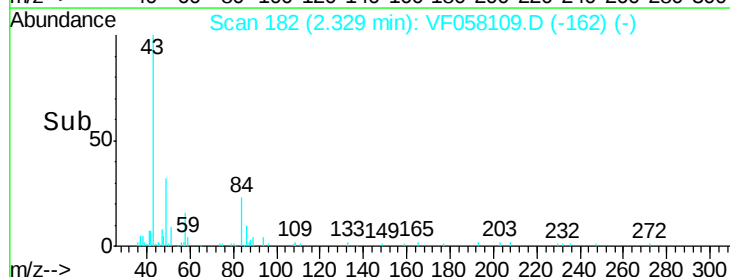
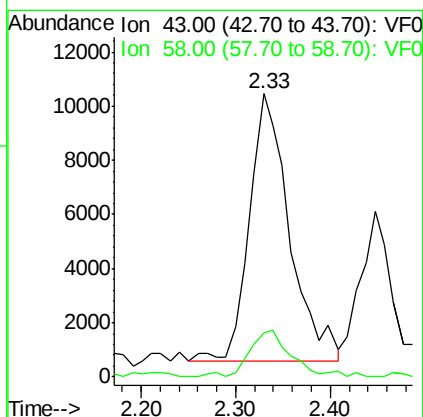
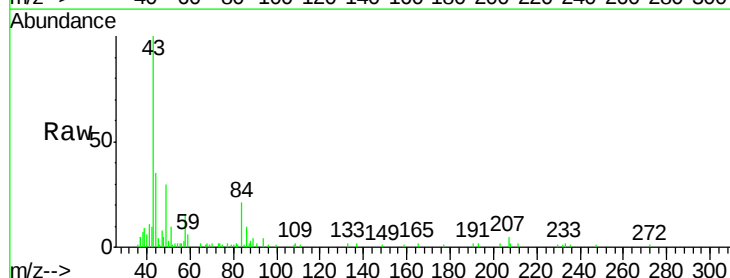
Acq: 6 Jun 2018 16:17

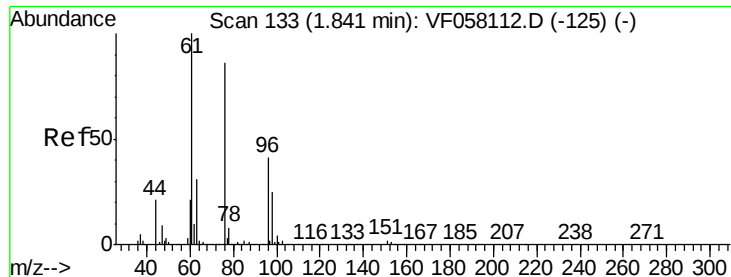
Tgt Ion: 43 Resp: 29133

Ion Ratio Lower Upper

43 100

58 15.7 14.4 21.6

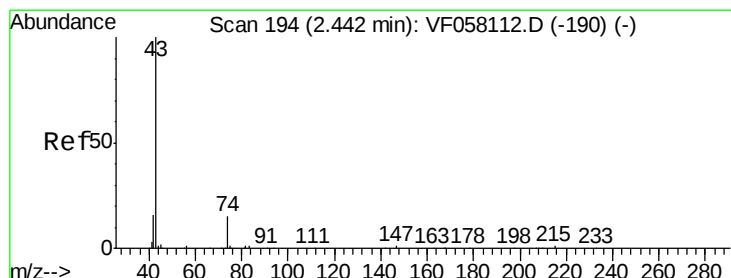
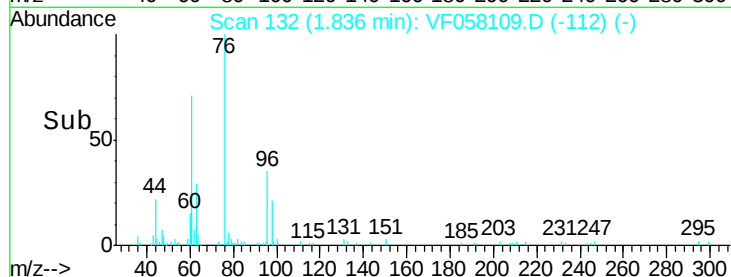
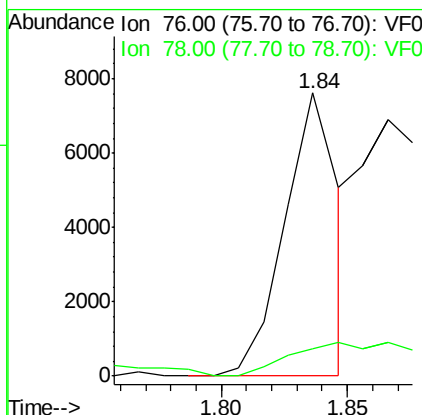
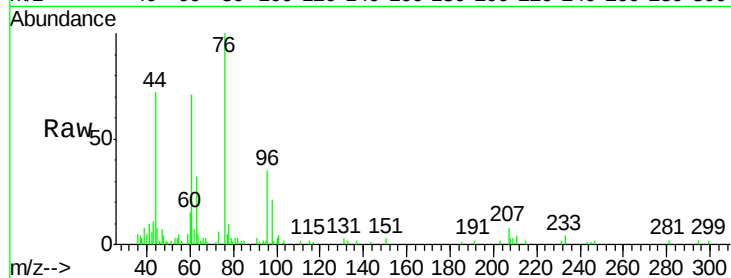




#17
Carbon Disulfide
Concen: 1.58 ug/l
RT: 1.84 min Scan# 132
Delta R.T. -0.00 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

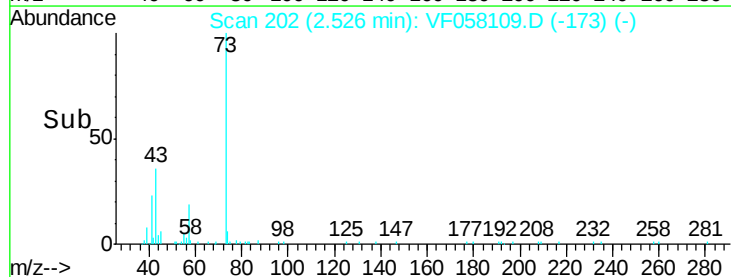
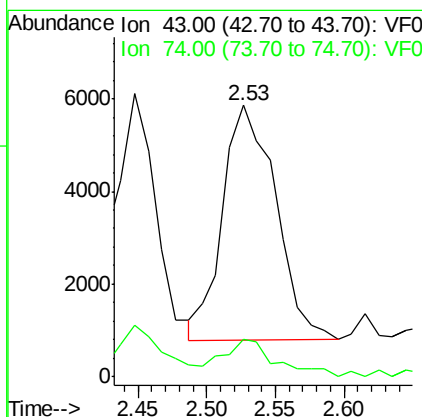
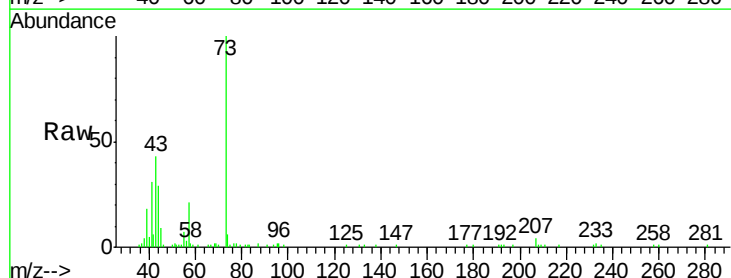
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

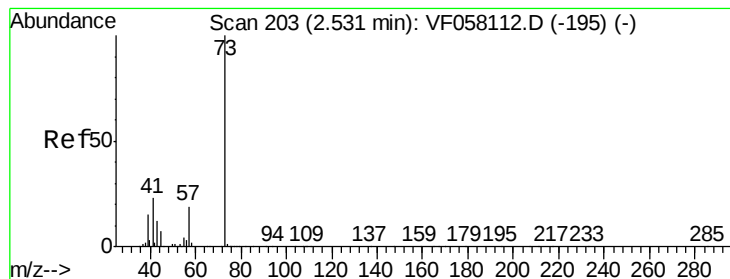
Tgt Ion: 76 Resp: 11237
Ion Ratio Lower Upper
76 100
78 9.5 7.8 11.8



#18
Methyl Acetate
Concen: 6.99 ug/l
RT: 2.53 min Scan# 202
Delta R.T. 0.08 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

Tgt Ion: 43 Resp: 13553
Ion Ratio Lower Upper
43 100
74 13.7 10.9 16.3





#19

Methyl tert-butyl Ether

Concen: 5.28 ug/l

RT: 2.54 min Scan# 203

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

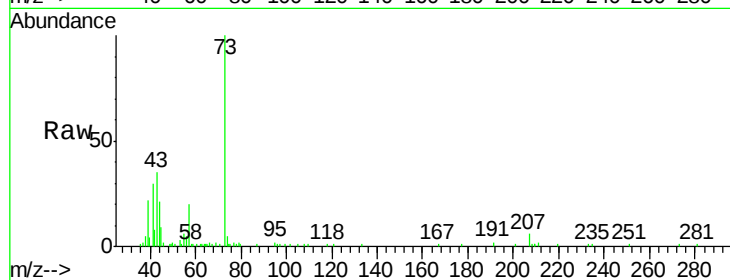
VSTDIC005

Tgt Ion: 73 Resp: 41076

Ion Ratio Lower Upper

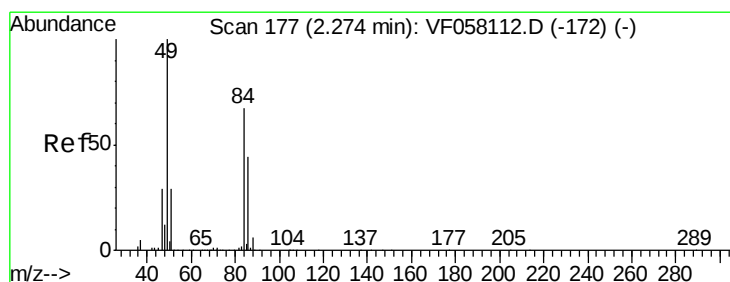
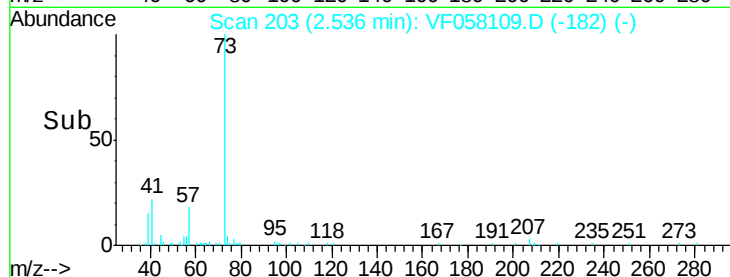
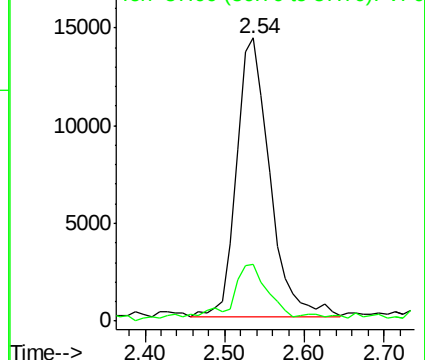
73 100

57 19.9 15.0 22.4



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#20

Methylene Chloride

Concen: 3.92 ug/l

RT: 2.28 min Scan# 177

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Tgt Ion: 84 Resp: 9973

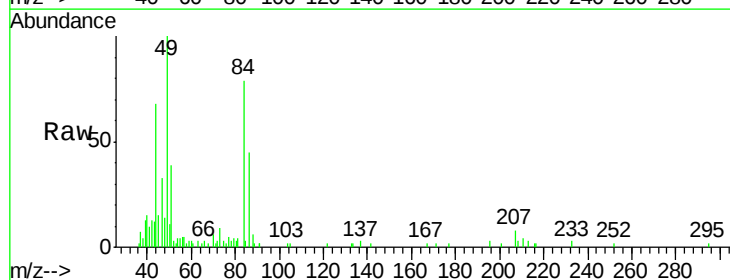
Ion Ratio Lower Upper

84 100

49 126.7 121.0 181.4

51 48.9 35.8 53.6

86 56.6 53.2 79.8

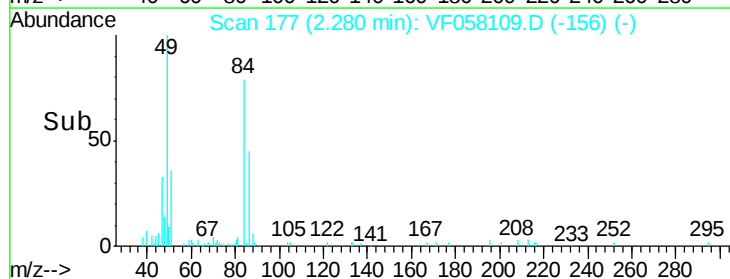
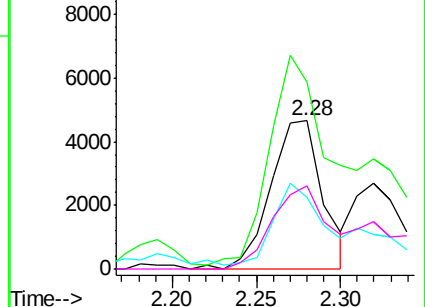


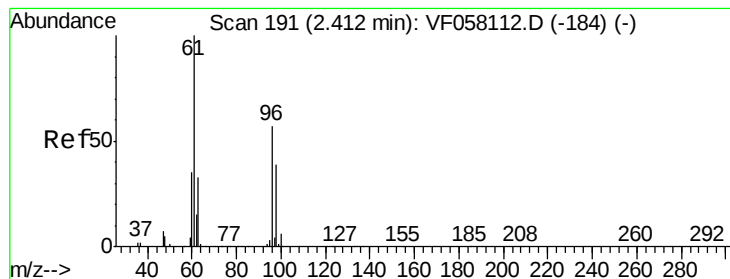
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#21

trans-1,2-Dichloroethene

Concen: 5.90 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

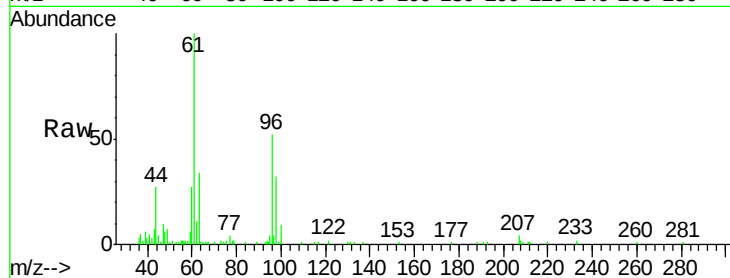
Tgt Ion: 96 Resp: 15816

Ion Ratio Lower Upper

96 100

61 190.6 139.4 209.2

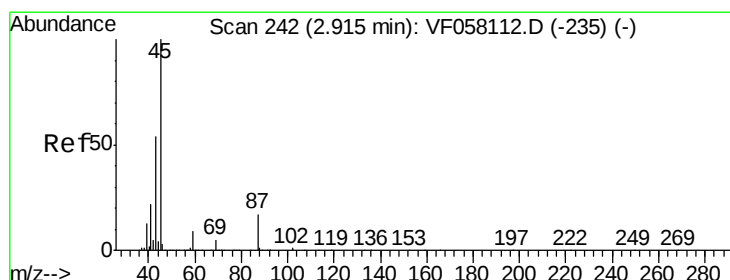
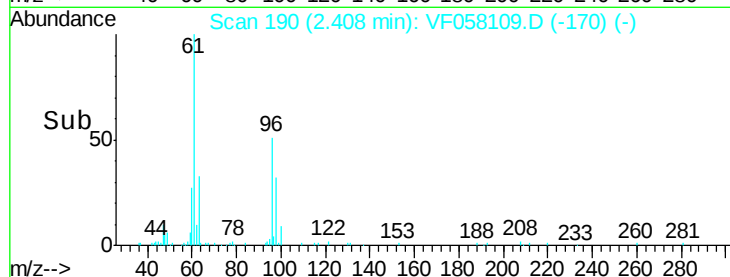
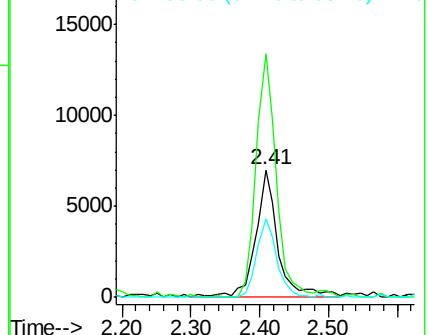
98 61.5 54.0 81.0



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: 5.69 ug/l

RT: 2.92 min Scan# 242

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Tgt Ion: 45 Resp: 52920

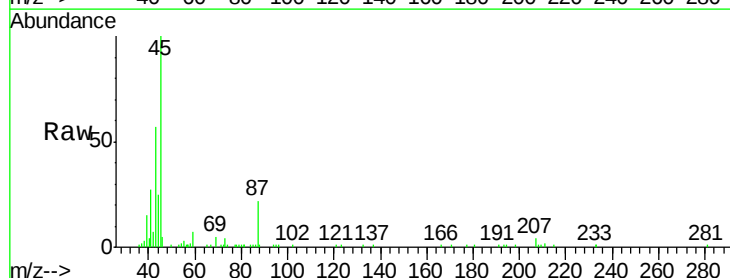
Ion Ratio Lower Upper

45 100

43 57.3 43.2 64.8

87 22.3 13.8 20.6#

59 6.5 7.5 11.3#

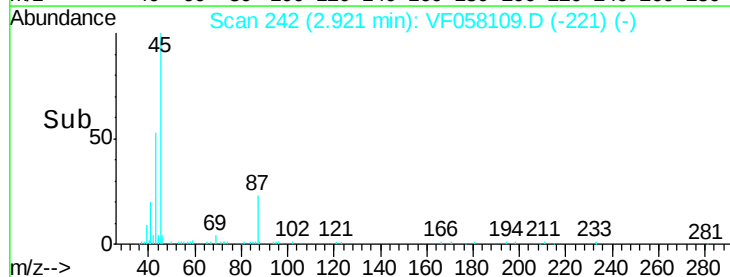
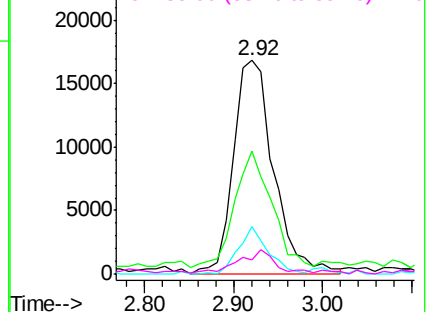


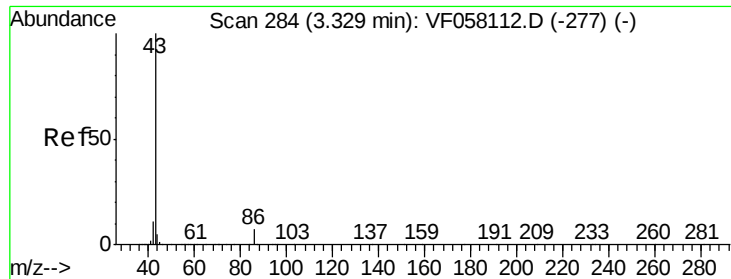
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 24.03 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

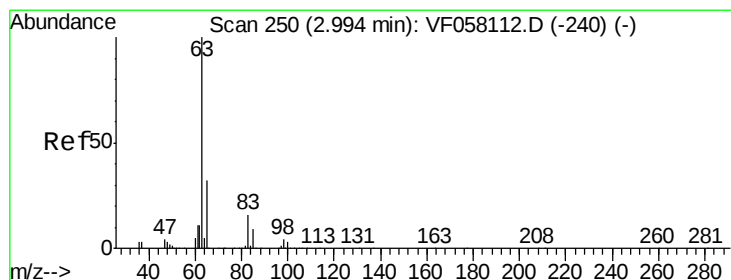
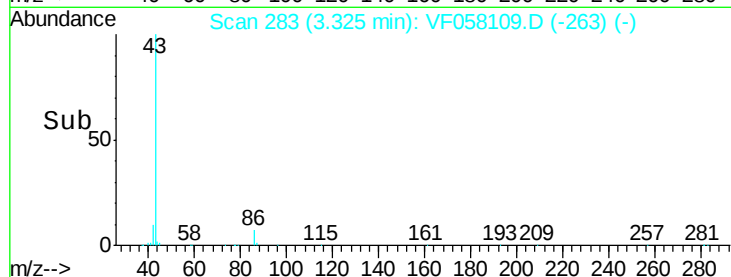
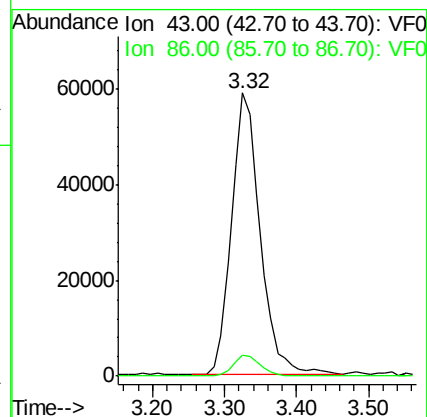
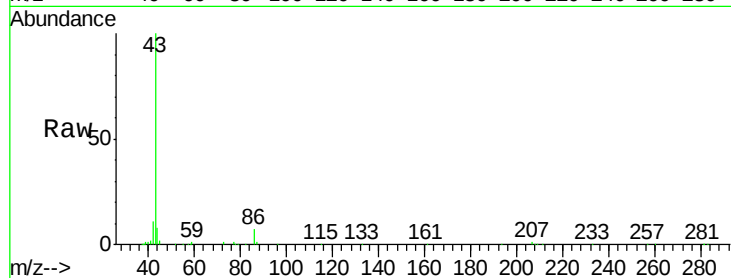
VSTDIC005

Tgt Ion: 43 Resp: 163738

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0



#24

1,1-Dichloroethane

Concen: 5.34 ug/l

RT: 3.00 min Scan# 250

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

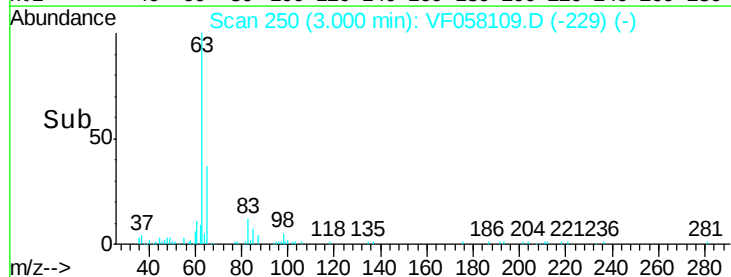
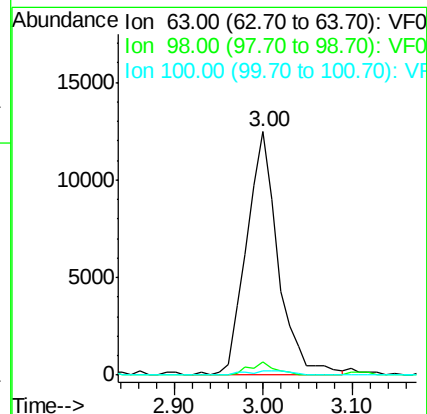
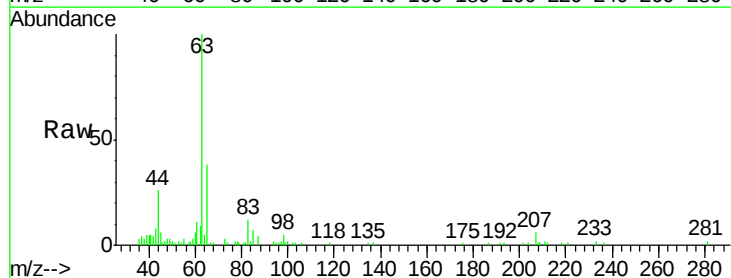
Tgt Ion: 63 Resp: 30740

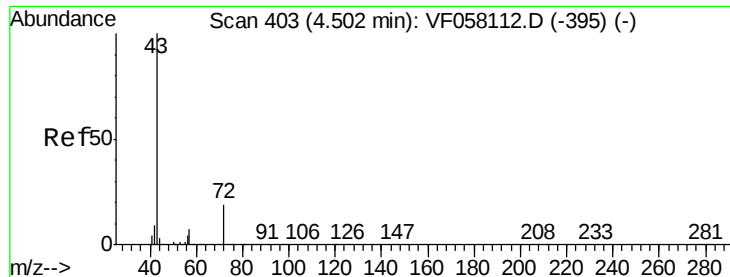
Ion Ratio Lower Upper

63 100

98 5.2 2.0 6.0

100 1.7 1.4 4.0





#25

2-Butanone

Concen: 28.48 ug/l

RT: 4.51 min Scan# 403

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

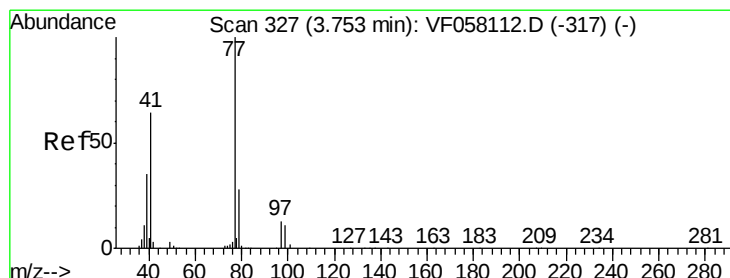
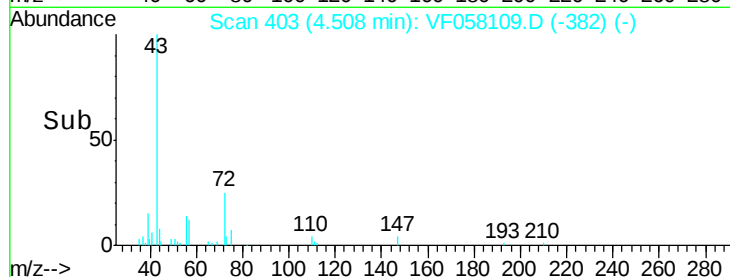
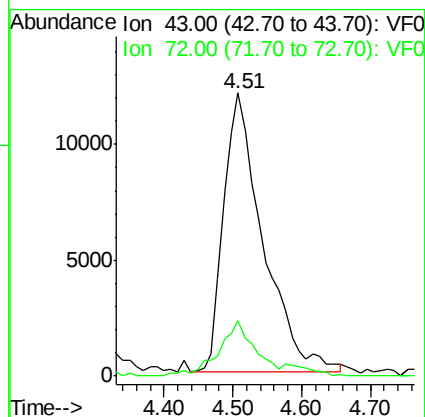
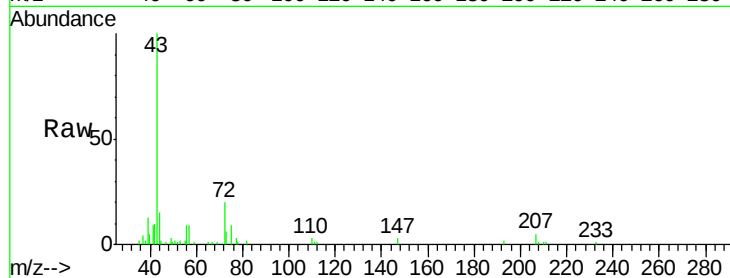
VSTDIC005

Tgt Ion: 43 Resp: 48026

Ion Ratio Lower Upper

43 100

72 19.6 16.1 24.1



#26

2,2-Dichloropropane

Concen: 5.91 ug/l

RT: 3.75 min Scan# 326

Delta R.T. -0.00 min

Lab File: VF058109.D

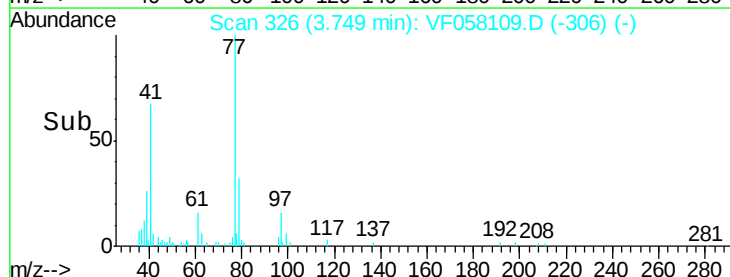
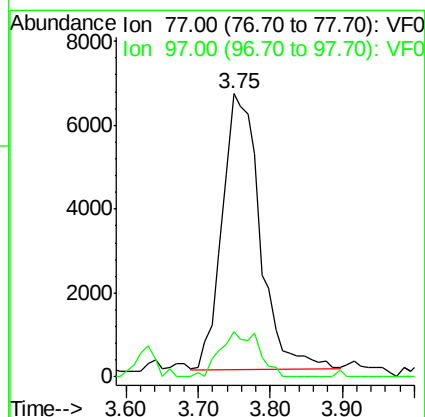
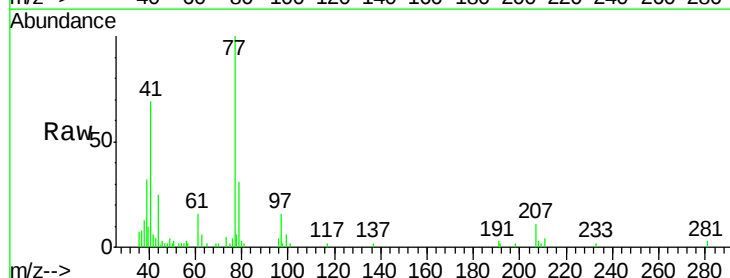
Acq: 6 Jun 2018 16:17

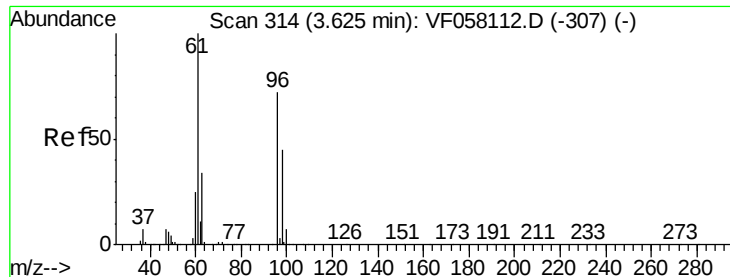
Tgt Ion: 77 Resp: 24046

Ion Ratio Lower Upper

77 100

97 17.9 7.2 21.6



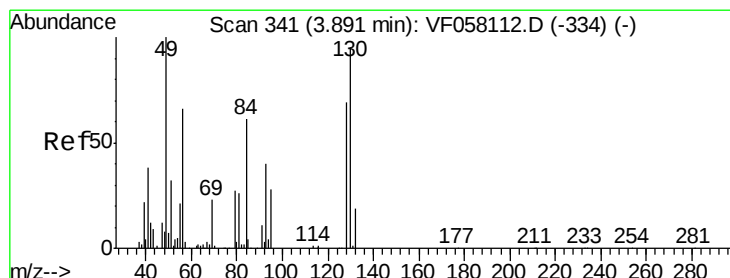
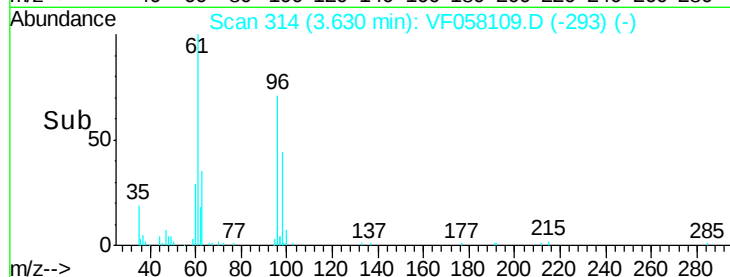
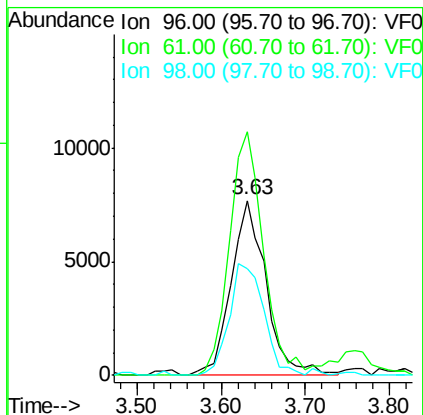
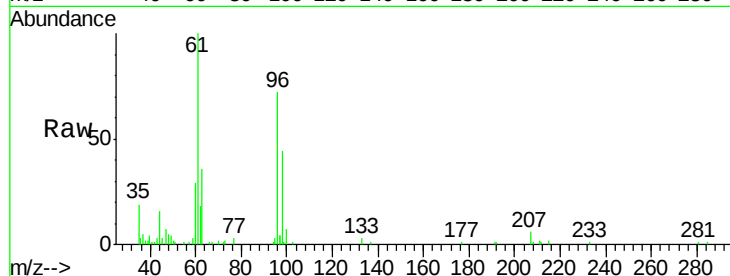


#27

cis-1,2-Dichloroethene
 Concen: 5.00 ug/l
 RT: 3.63 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

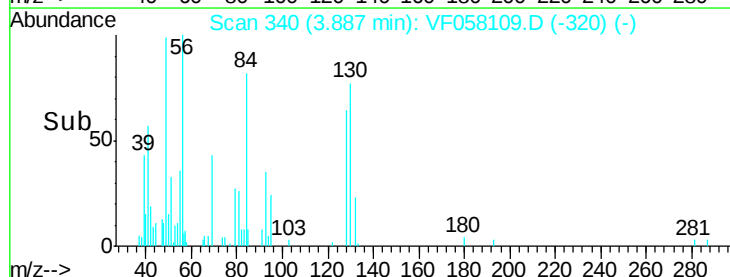
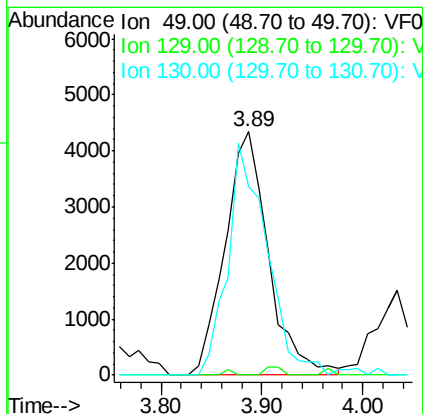
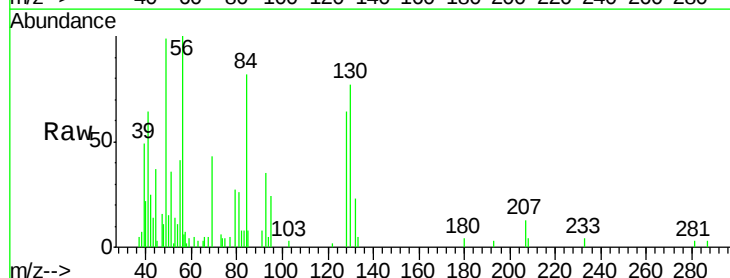
Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.9	0.0	278.6
98	58.1	0.0	125.2

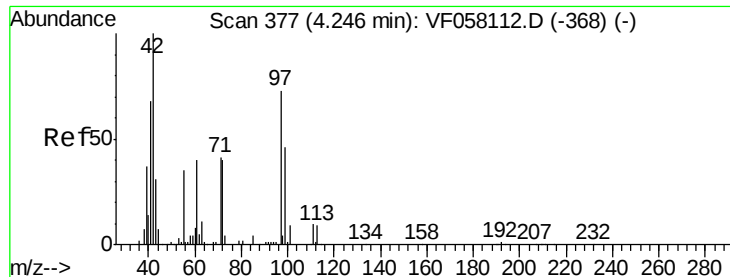


#28

Bromochloromethane
 Concen: 5.13 ug/l
 RT: 3.89 min Scan# 340
 Delta R.T. -0.00 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	77.2	75.8	113.8





#29

Tetrahydrofuran

Concen: 25.17 ug/l

RT: 4.25 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

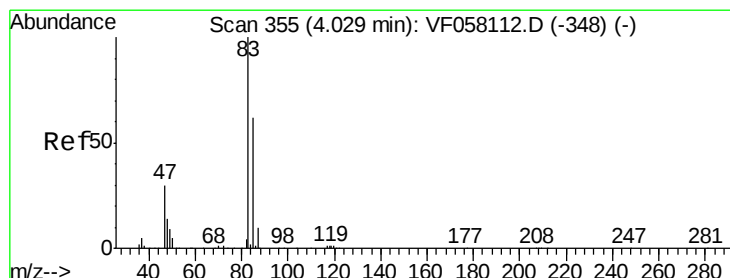
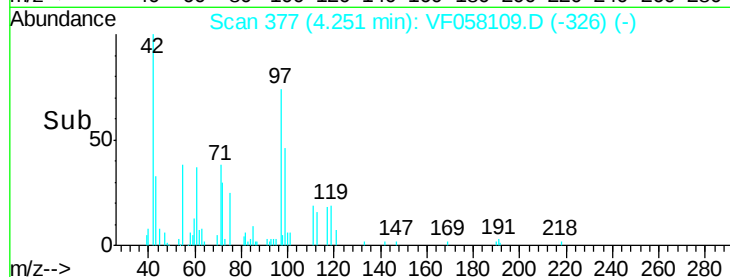
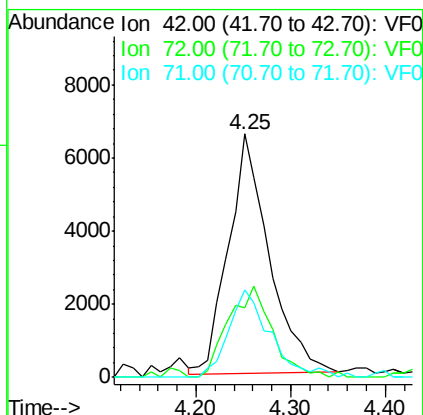
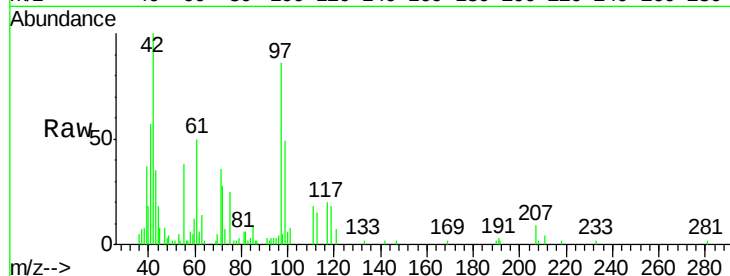
Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tgt Ion:	42	Resp:	19587
Ion	Ratio	Lower	Upper
42	100		
72	41.0	30.5	45.7
71	37.5	31.5	47.3



#30

Chloroform

Concen: 5.13 ug/l

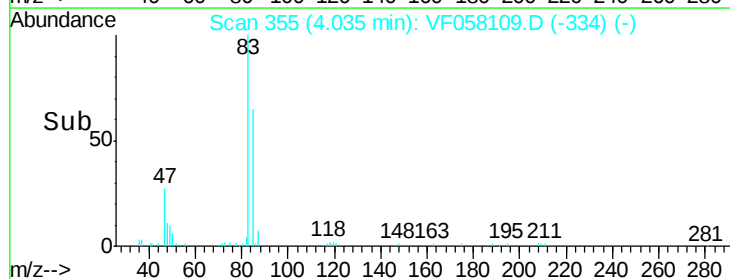
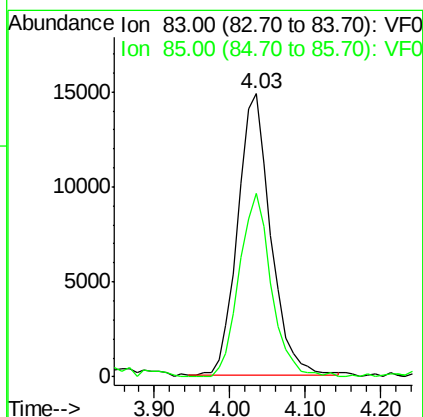
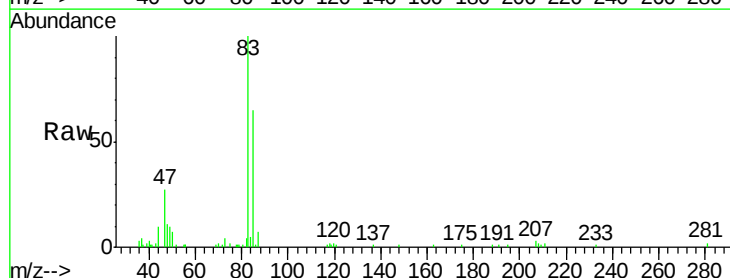
RT: 4.03 min Scan# 355

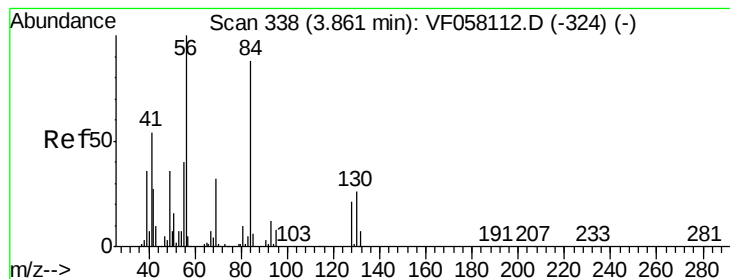
Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Tgt Ion:	83	Resp:	44370
Ion	Ratio	Lower	Upper
83	100		
85	64.7	49.5	74.3





#31

Cyclohexane

Concen: 5.38 ug/l

RT: 3.86 min Scan# 337

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

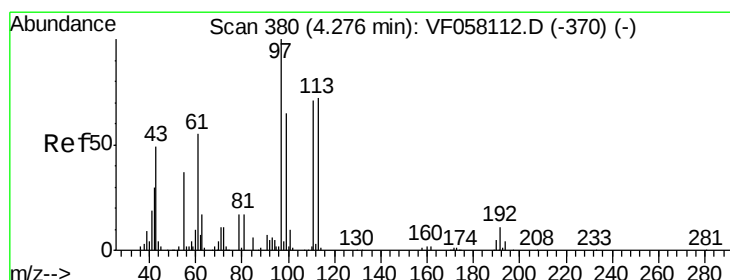
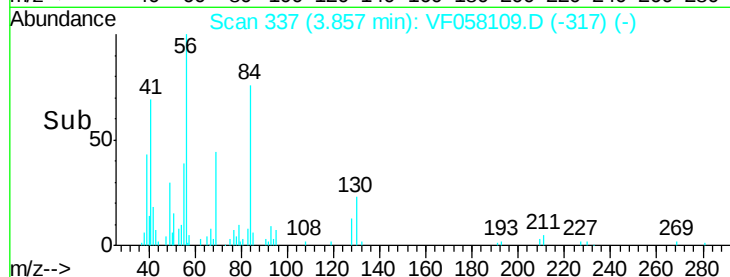
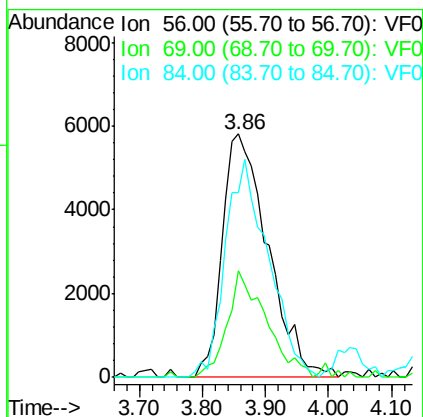
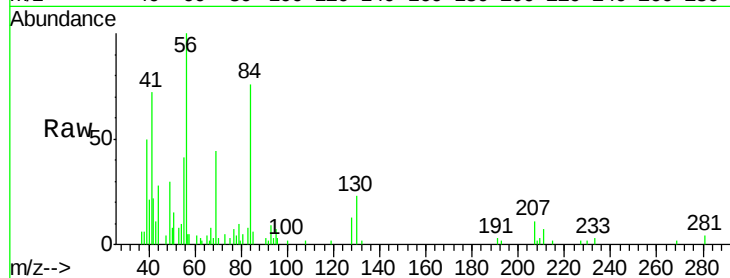
Tgt Ion: 56 Resp: 29184

Ion Ratio Lower Upper

56 100

69 43.9 25.9 38.9#

84 76.0 70.3 105.5



#32

1,1,1-Trichloroethane

Concen: 5.43 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

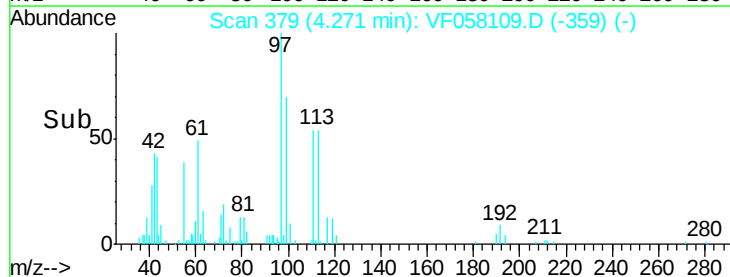
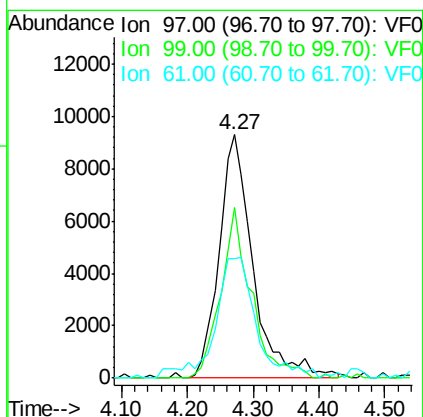
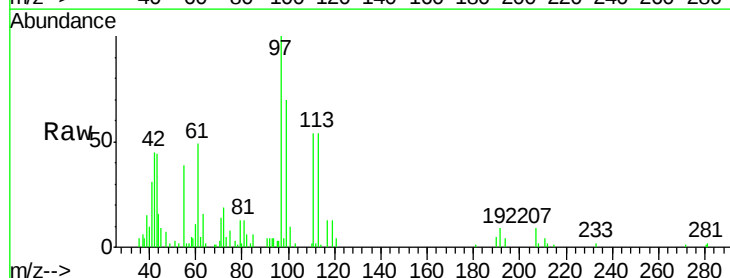
Tgt Ion: 97 Resp: 33322

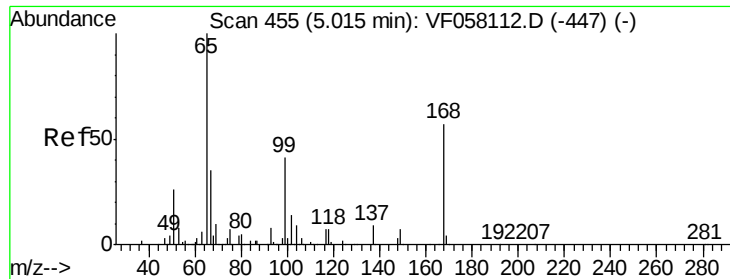
Ion Ratio Lower Upper

97 100

99 70.3 52.0 78.0

61 49.2 44.3 66.5

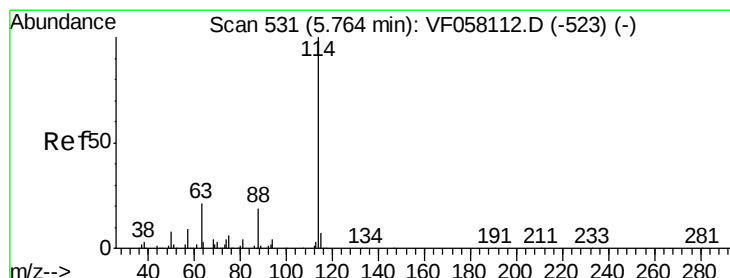
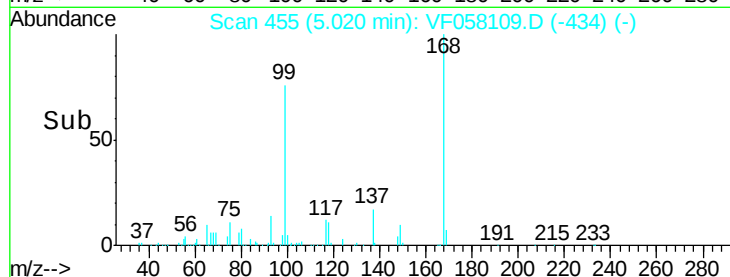
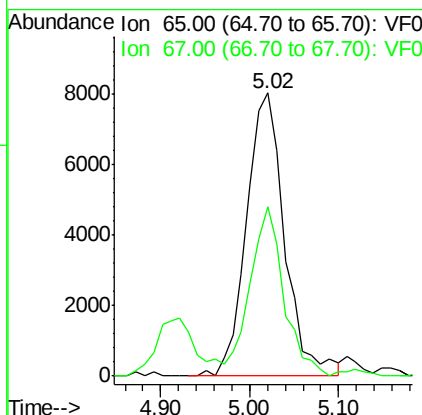
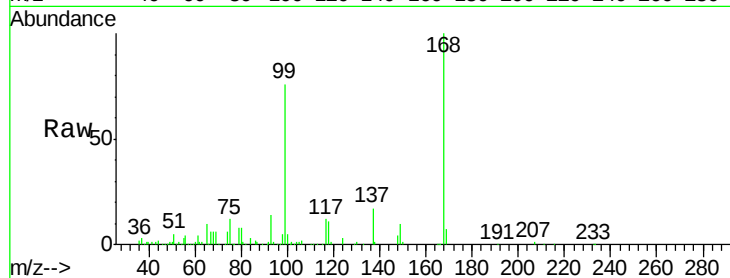




#33
 1,2-Dichloroethane-d4
 Concen: 4.99 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. 0.01 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

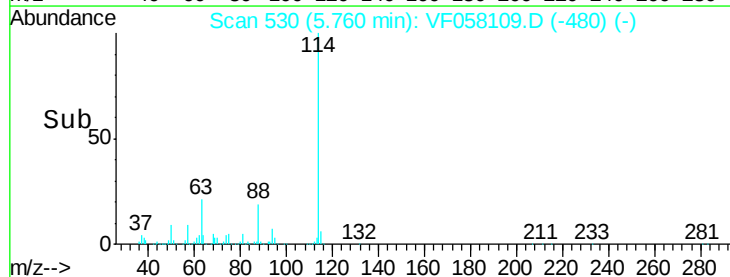
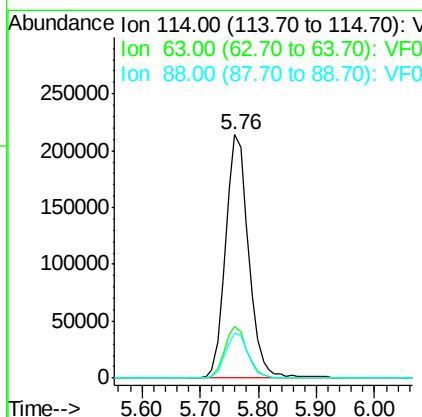
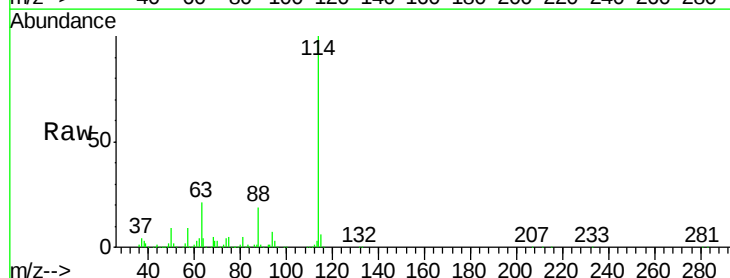
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

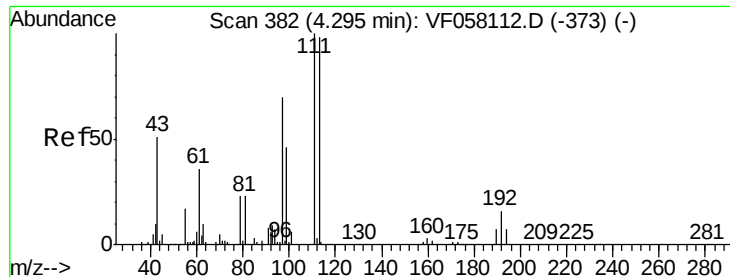
Tgt Ion: 65 Resp: 23687
 Ion Ratio Lower Upper
 65 100
 67 59.6 0.0 97.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Tgt Ion: 114 Resp: 588672
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 41.6
 88 18.6 0.0 38.8





#35

Dibromofluoromethane

Concen: 5.06 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

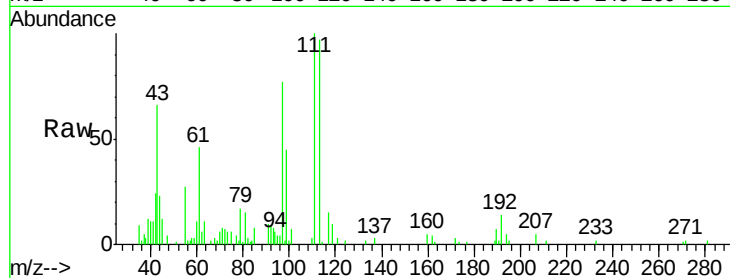
Tgt Ion:113 Resp: 22096

Ion Ratio Lower Upper

113 100

111 103.5 81.3 121.9

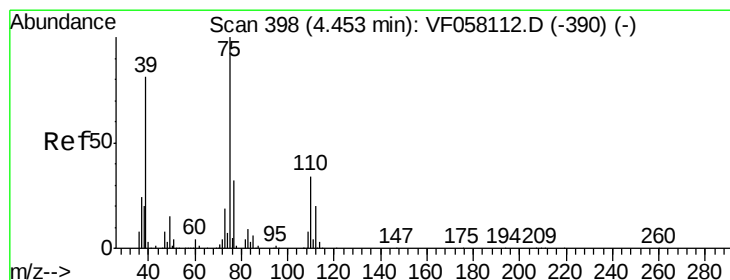
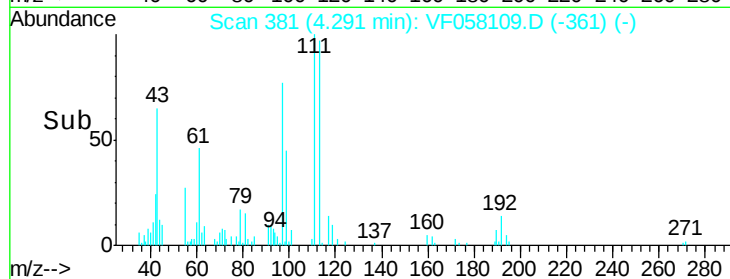
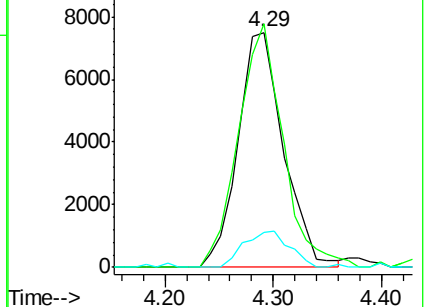
192 14.9 12.7 19.1



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: 5.33 ug/l

RT: 4.46 min Scan# 398

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

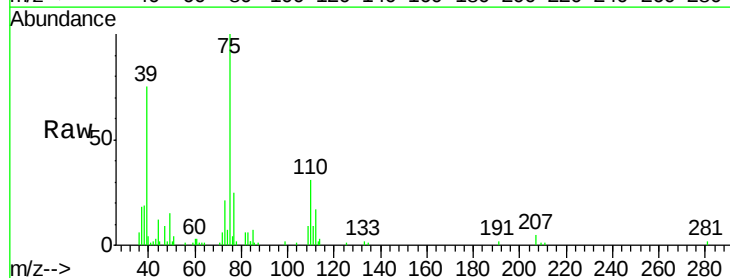
Tgt Ion: 75 Resp: 31751

Ion Ratio Lower Upper

75 100

110 30.8 17.0 50.9

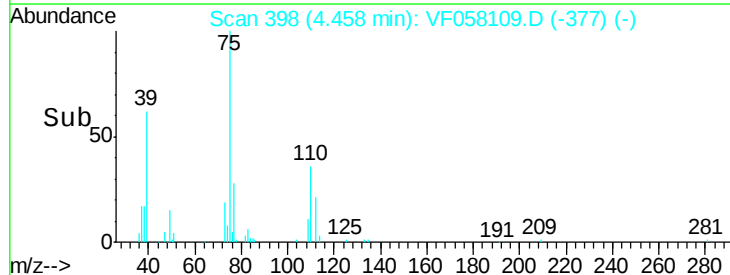
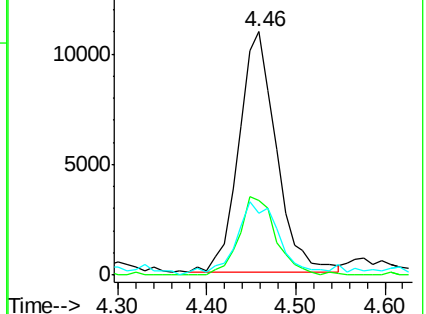
77 25.4 25.3 37.9

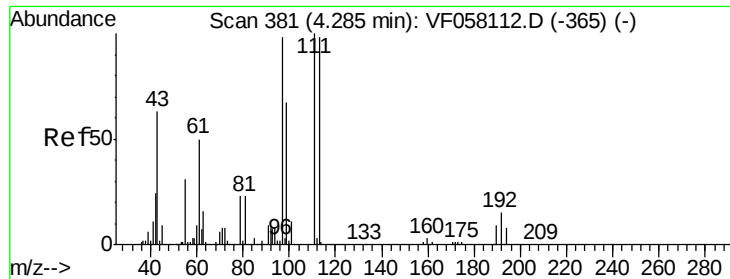


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

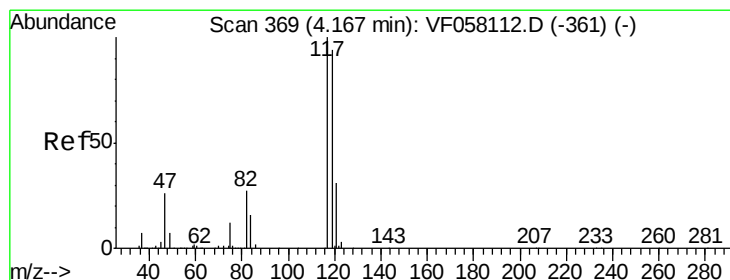
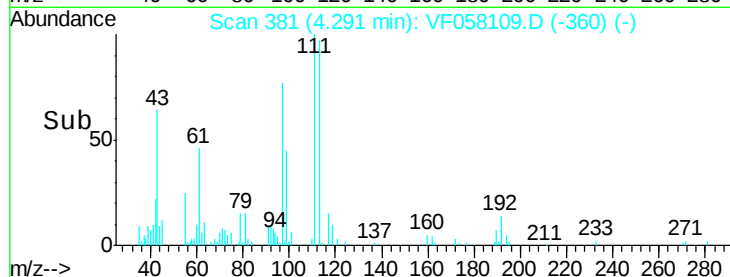
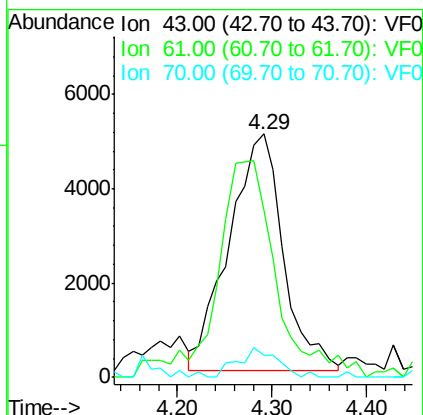
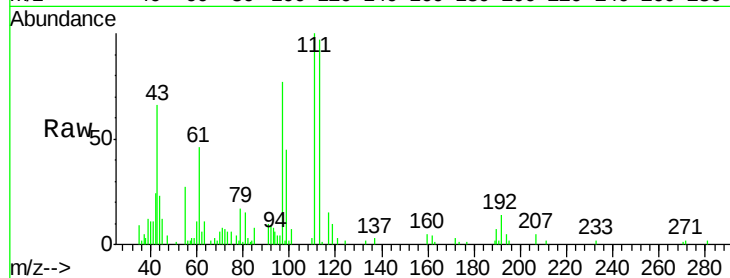




#37
Ethyl Acetate
Concen: 5.68 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

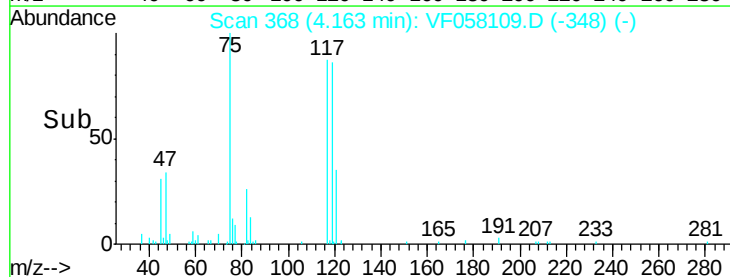
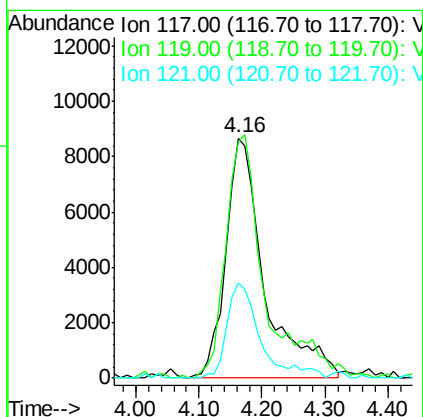
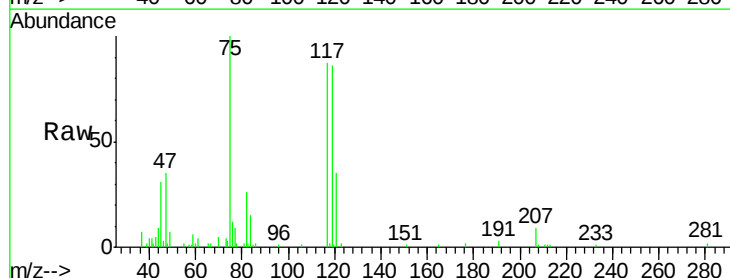
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

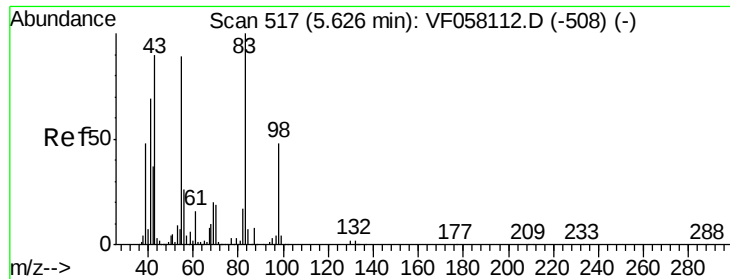
Tgt Ion: 43 Resp: 19946
Ion Ratio Lower Upper
43 100
61 68.7 63.0 94.4
70 9.0 7.5 11.3



#38
Carbon Tetrachloride
Concen: 5.86 ug/l
RT: 4.16 min Scan# 368
Delta R.T. -0.00 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

Tgt Ion: 117 Resp: 37049
Ion Ratio Lower Upper
117 100
119 98.3 75.7 113.5
121 39.6 24.8 37.2#

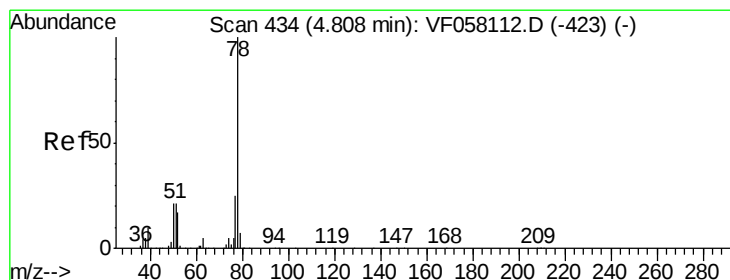
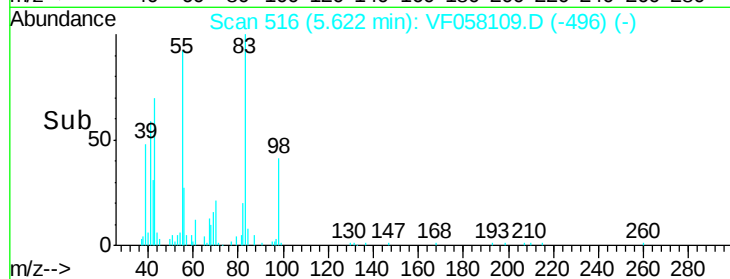
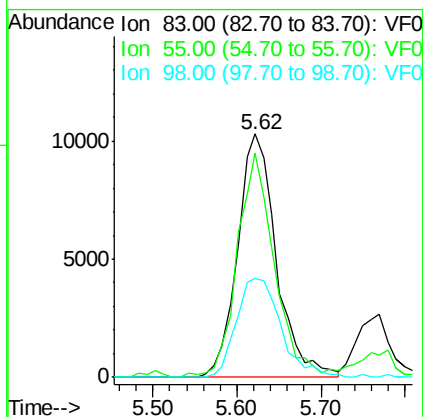
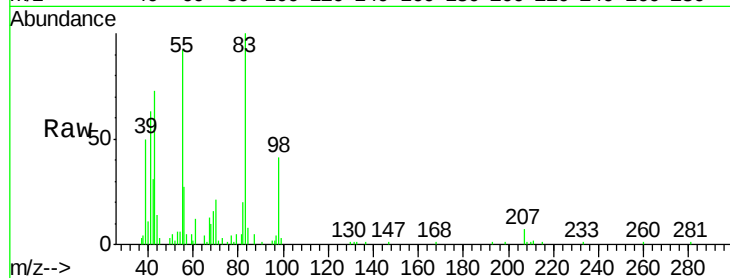




#39
Methylcyclohexane
Concen: 5.41 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.00 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

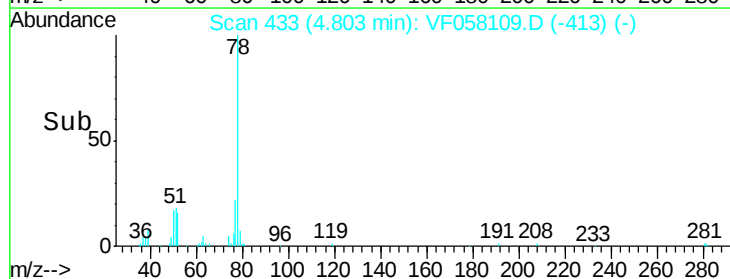
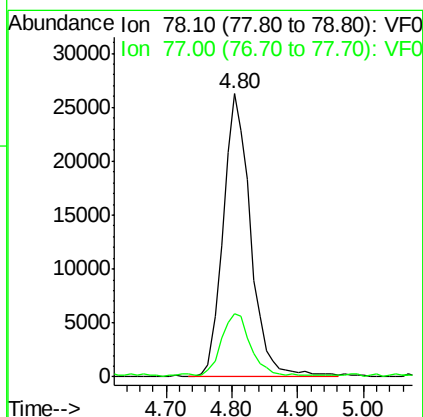
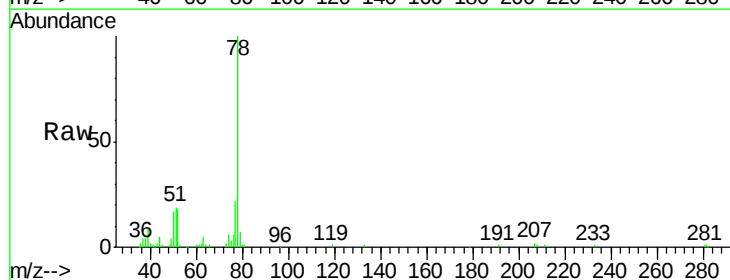
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

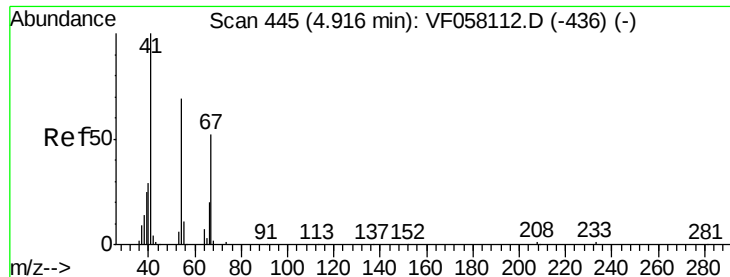
Tgt Ion: 83 Resp: 33253
Ion Ratio Lower Upper
83 100
55 92.1 71.0 106.4
98 40.8 38.1 57.1



#40
Benzene
Concen: 5.53 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.00 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

Tgt Ion: 78 Resp: 77025
Ion Ratio Lower Upper
78 100
77 22.2 20.2 30.2

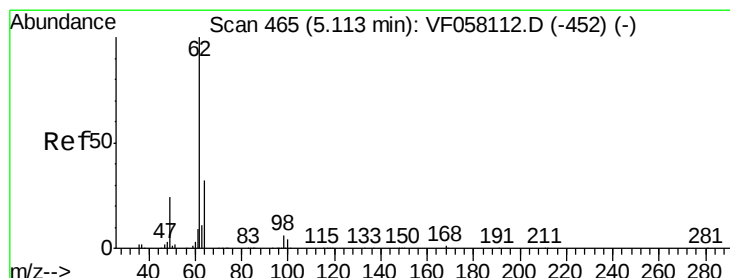
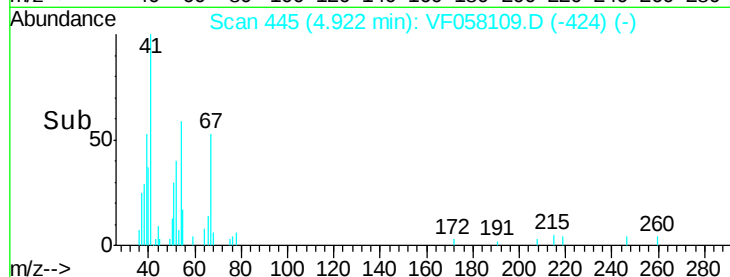
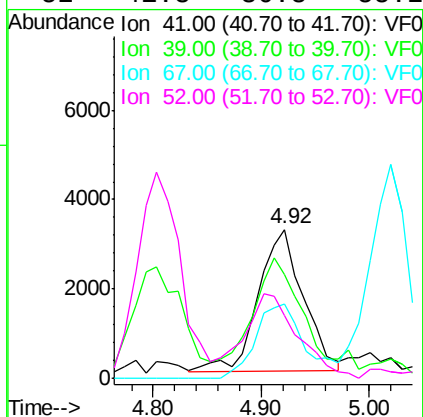
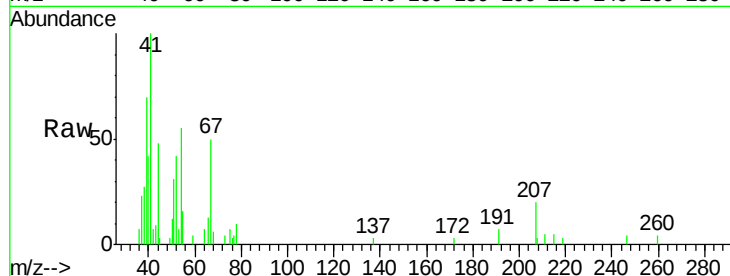




#41
Methacrylonitrile
Concen: 5.21 ug/l
RT: 4.92 min Scan# 445
Delta R.T. 0.01 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

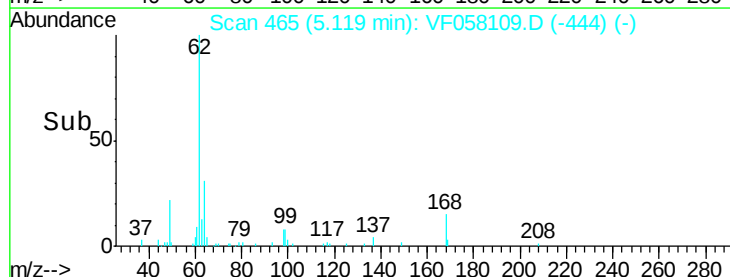
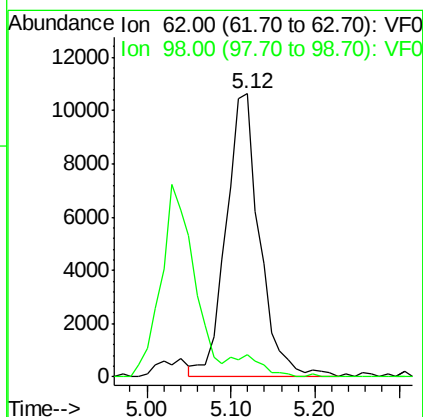
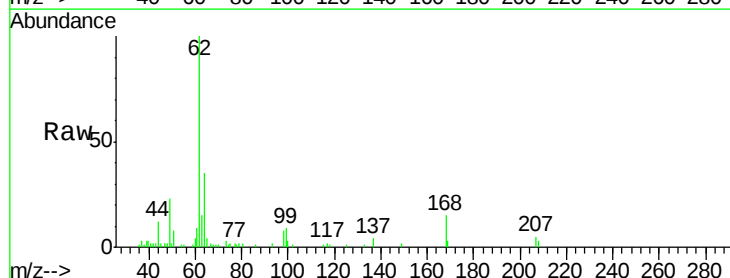
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

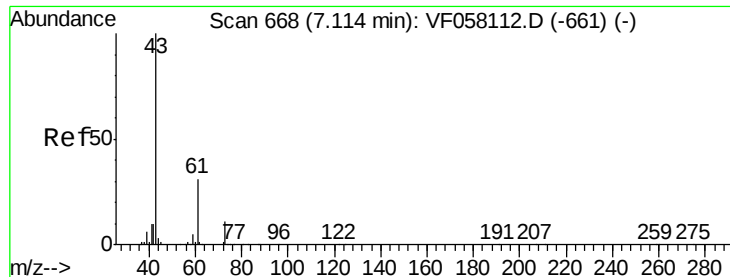
Tgt Ion:	41	Resp:	9267
Ion	Ratio	Lower	Upper
41	100		
39	69.7	53.0	79.4
67	49.8	41.0	61.6
52	41.8	36.8	55.2



#42
1,2-Dichloroethane
Concen: 4.93 ug/l
RT: 5.12 min Scan# 465
Delta R.T. 0.01 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

Tgt Ion:	62	Resp:	29495
Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	11.8





#43

Isopropyl Acetate

Concen: 5.45 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

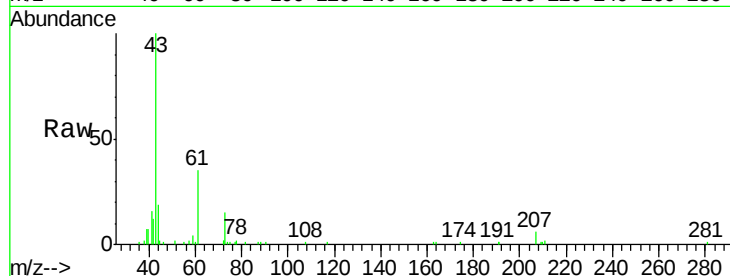
Tgt Ion: 43 Resp: 25960

Ion Ratio Lower Upper

43 100

61 34.8 25.1 37.7

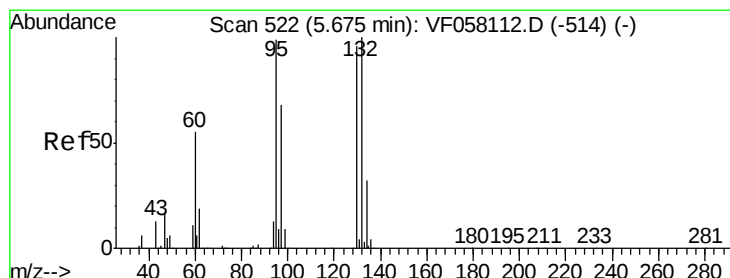
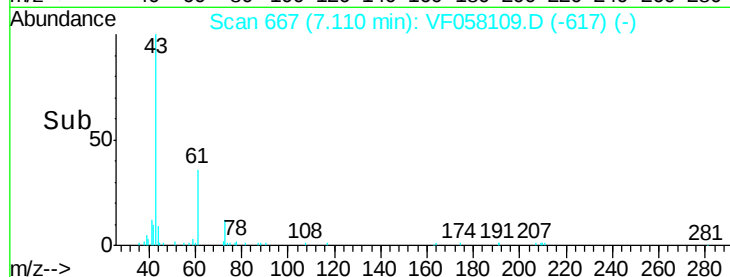
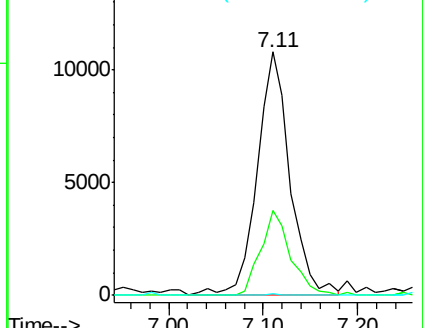
87 0.9 0.2 0.4#



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: 5.34 ug/l

RT: 5.67 min Scan# 521

Delta R.T. -0.00 min

Lab File: VF058109.D

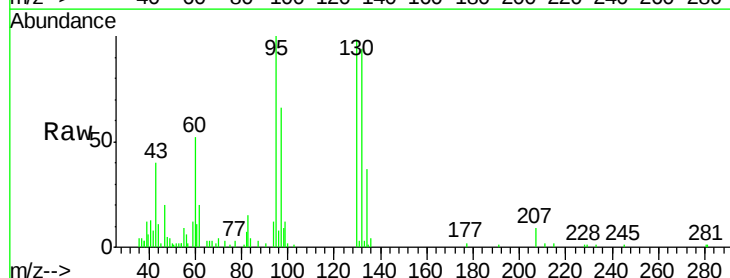
Acq: 6 Jun 2018 16:17

Tgt Ion: 130 Resp: 23200

Ion Ratio Lower Upper

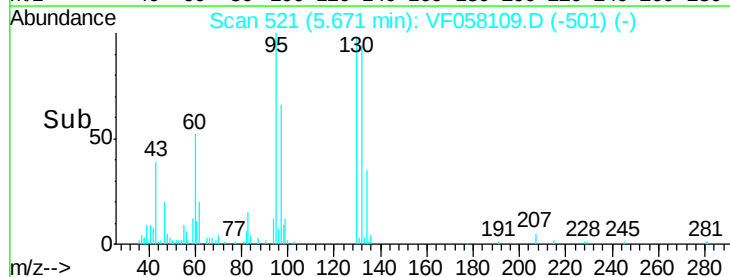
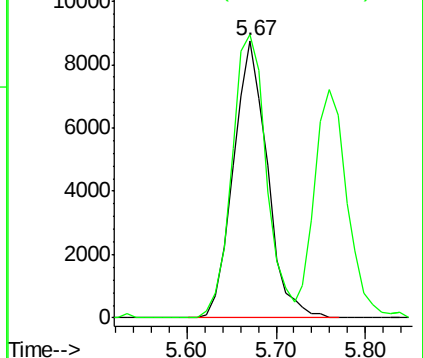
130 100

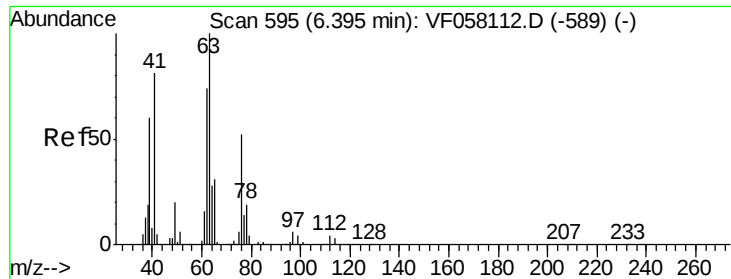
95 102.2 0.0 206.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 5.14 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.02 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

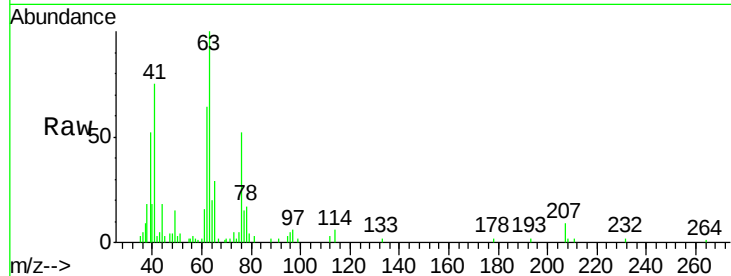
VSTDIC005

Tgt Ion: 63 Resp: 20827

Ion Ratio Lower Upper

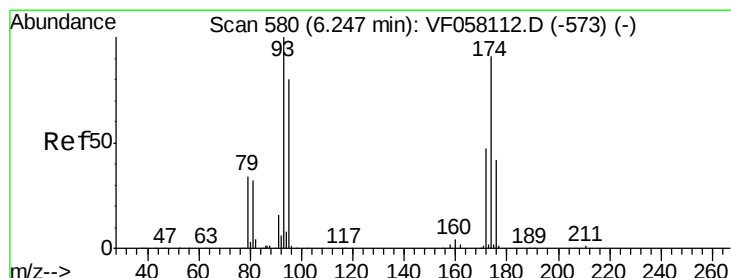
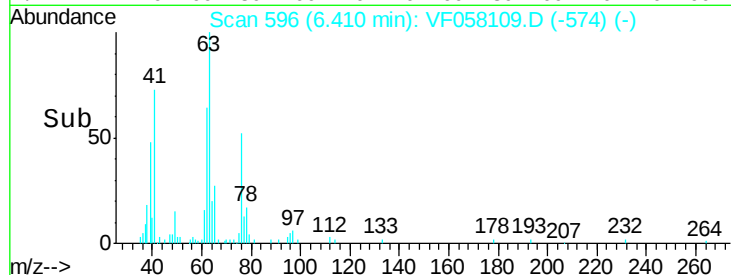
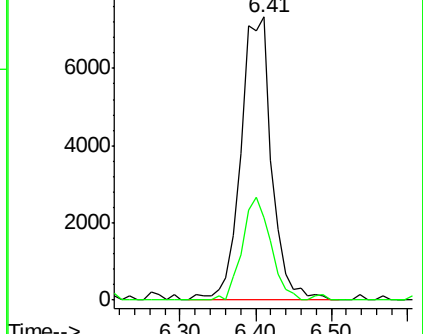
63 100

65 28.9 24.6 37.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 4.71 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

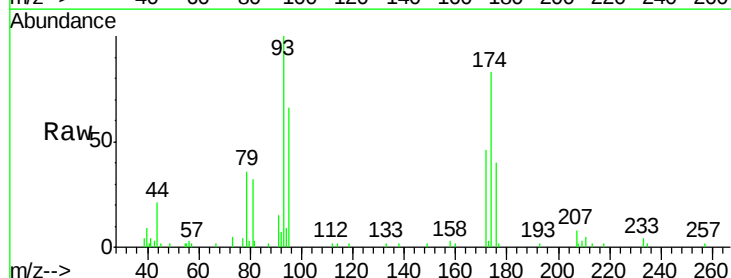
Tgt Ion: 93 Resp: 14403

Ion Ratio Lower Upper

93 100

95 66.1 64.2 96.4

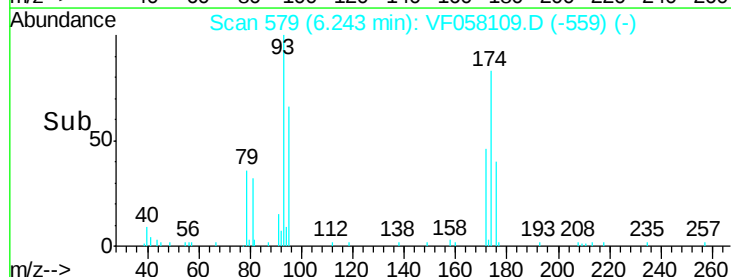
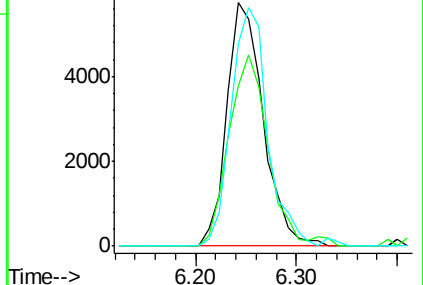
174 83.3 72.7 109.1

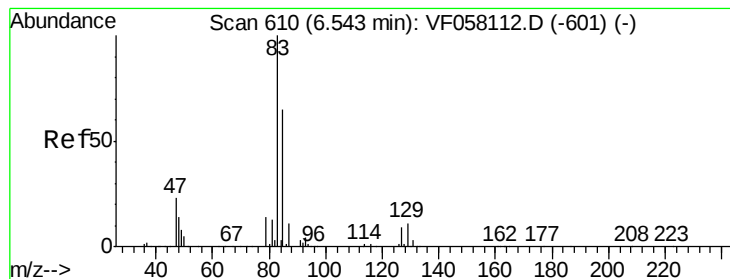


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 5.19 ug/l

RT: 6.55 min Scan# 610

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

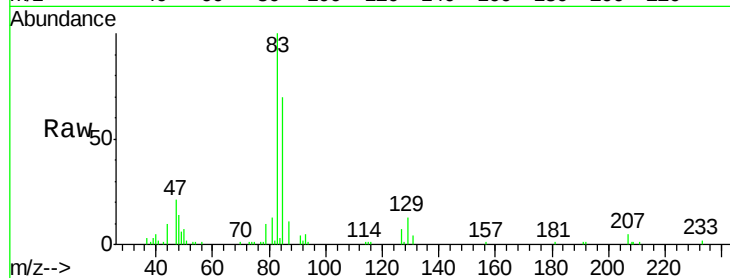
Tgt Ion: 83 Resp: 35052

Ion Ratio Lower Upper

83 100

85 67.9 51.6 77.4

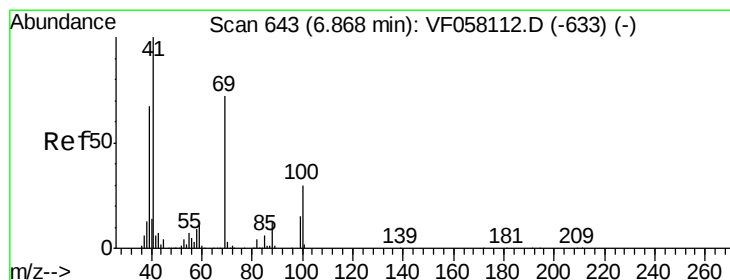
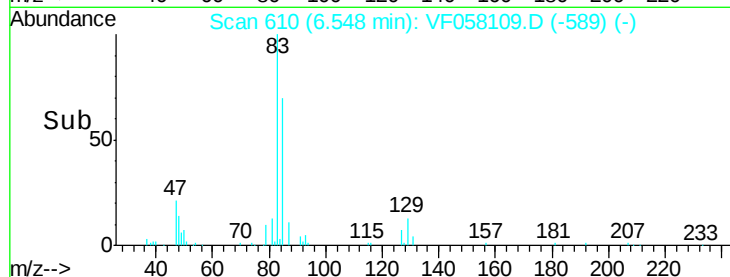
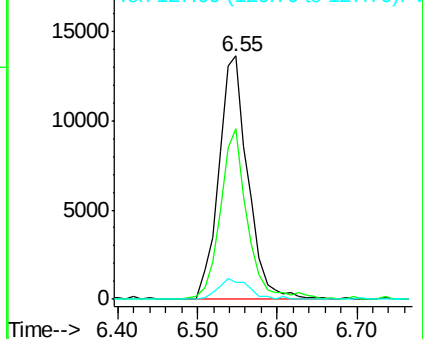
127 6.6 7.2 10.8#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 4.63 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

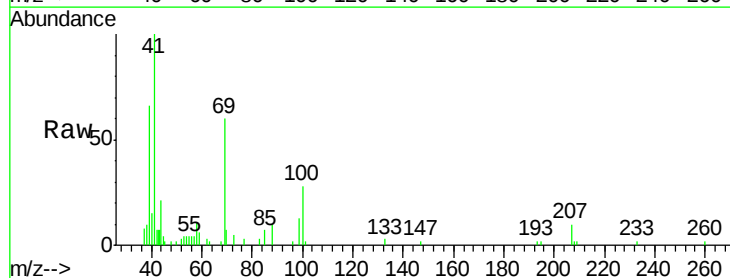
Tgt Ion: 41 Resp: 13916

Ion Ratio Lower Upper

41 100

69 59.7 57.2 85.8

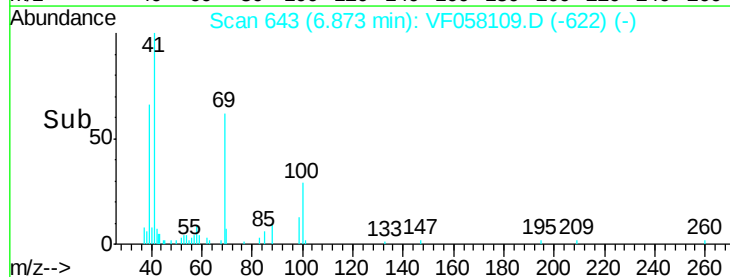
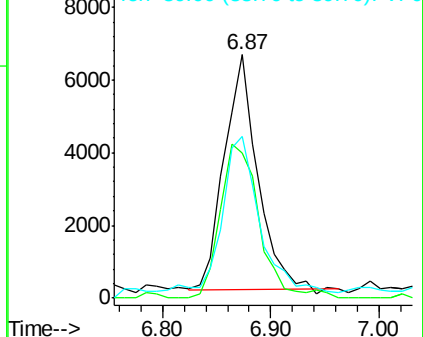
39 66.2 54.3 81.5

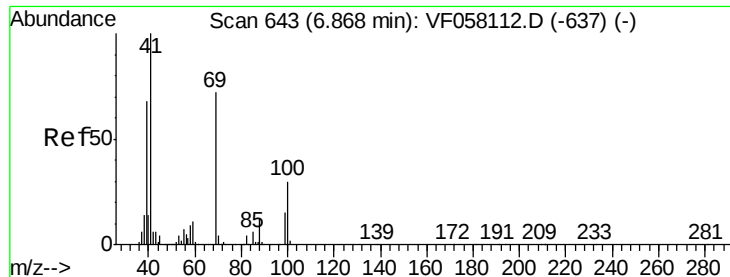


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 119.51 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

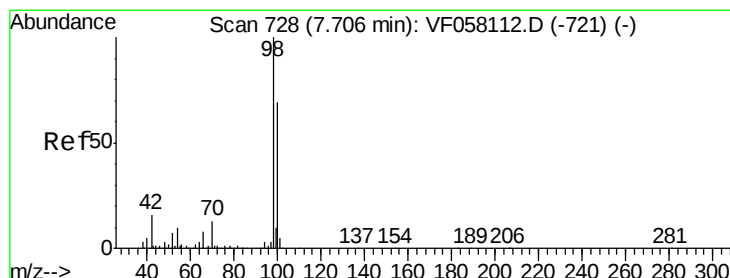
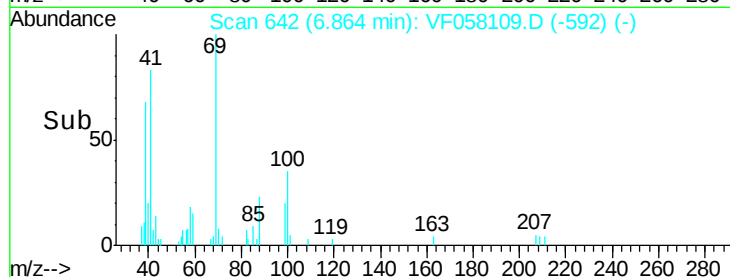
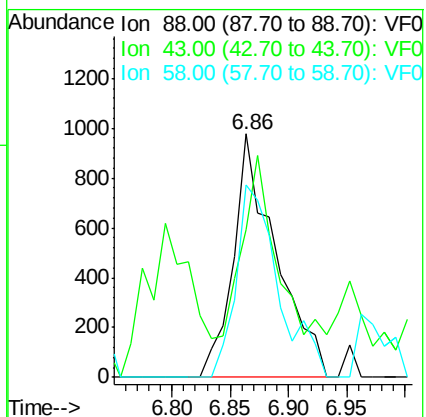
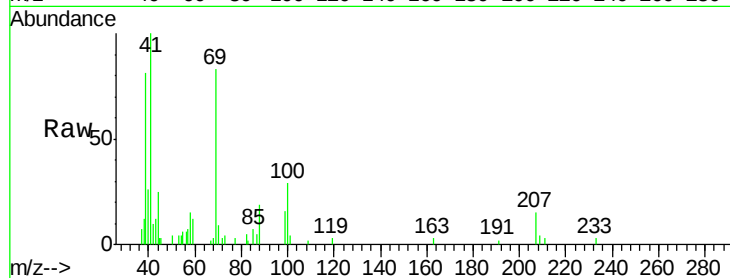
Tgt Ion: 88 Resp: 2481

Ion Ratio Lower Upper

88 100

43 60.7 47.8 71.8

58 79.1 59.4 89.0



#50

Toluene-d8

Concen: 5.23 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF058109.D

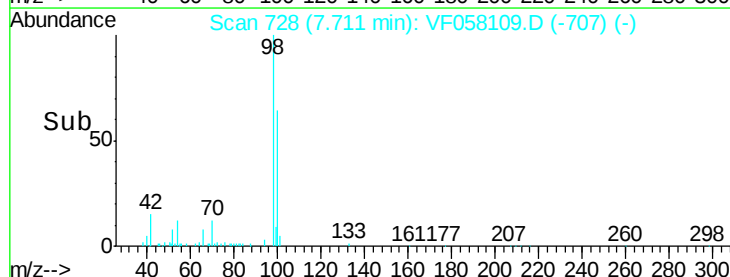
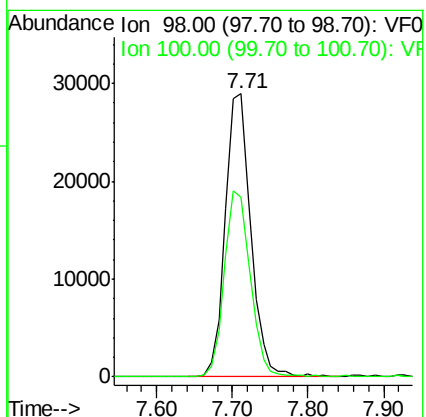
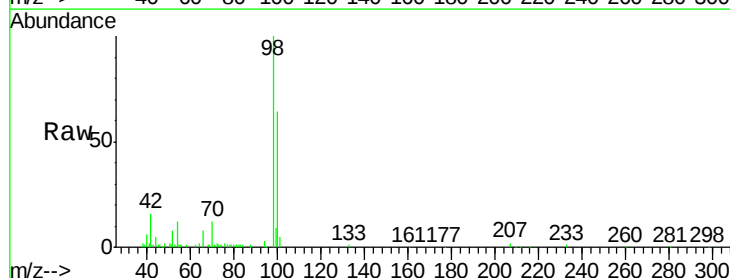
Acq: 6 Jun 2018 16:17

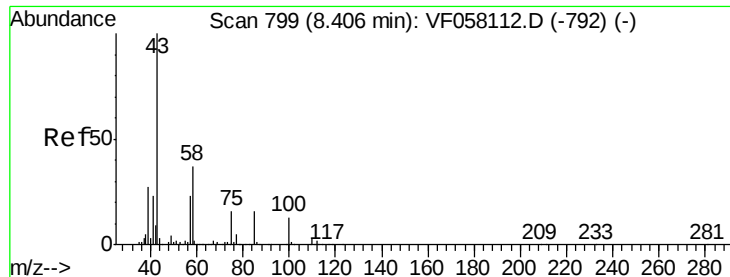
Tgt Ion: 98 Resp: 67651

Ion Ratio Lower Upper

98 100

100 63.5 55.6 83.4

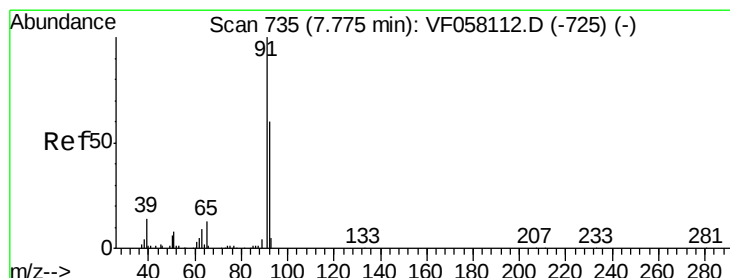
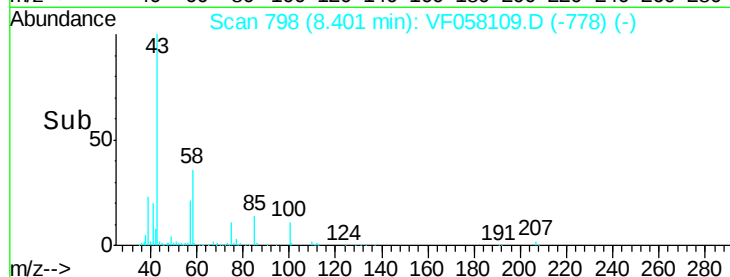
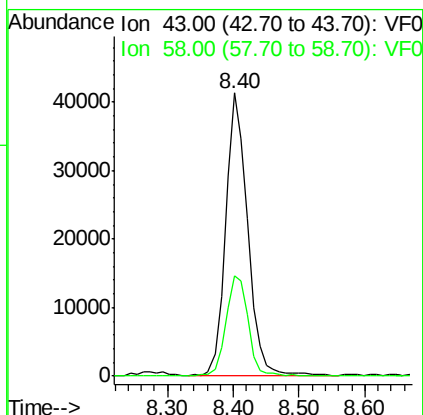
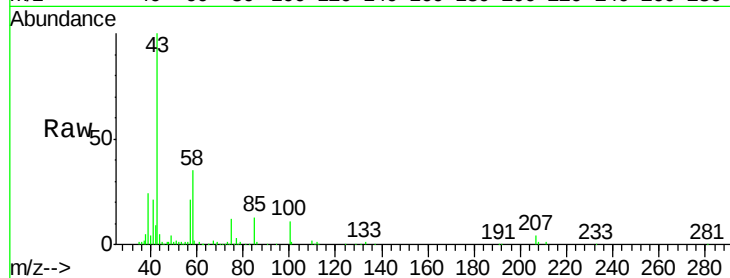




#51
 4-Methyl-2-Pentanone
 Concen: 29.17 ug/l
 RT: 8.40 min Scan# 798
 Delta R.T. -0.00 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

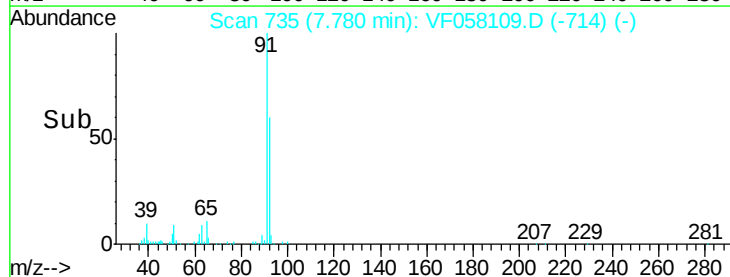
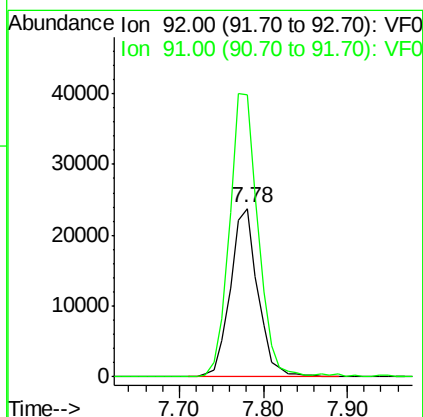
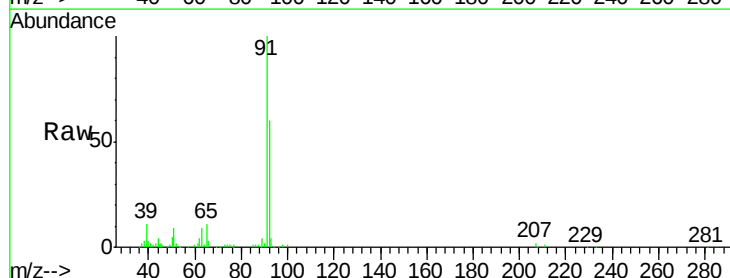
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

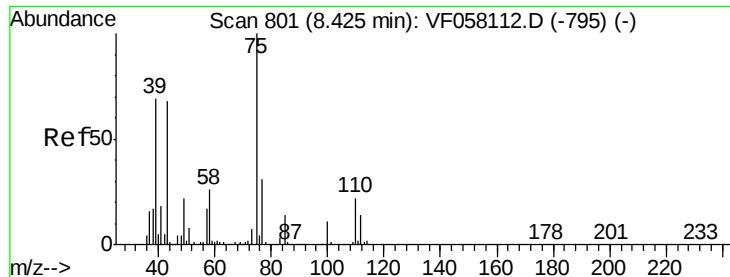
Tgt Ion: 43 Resp: 96391
 Ion Ratio Lower Upper
 43 100
 58 35.4 29.4 44.0



#52
 Toluene
 Concen: 5.47 ug/l
 RT: 7.78 min Scan# 735
 Delta R.T. 0.01 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Tgt Ion: 92 Resp: 54112
 Ion Ratio Lower Upper
 92 100
 91 167.3 132.9 199.3





#53

t-1,3-Dichloropropene

Concen: 5.67 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

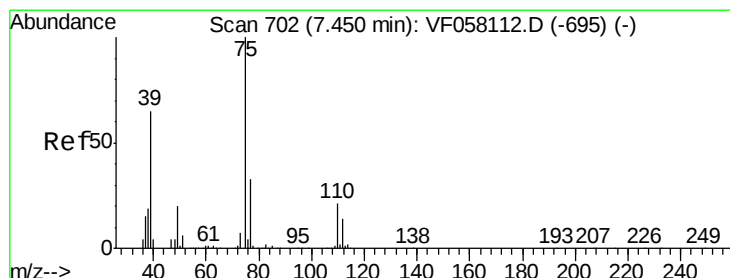
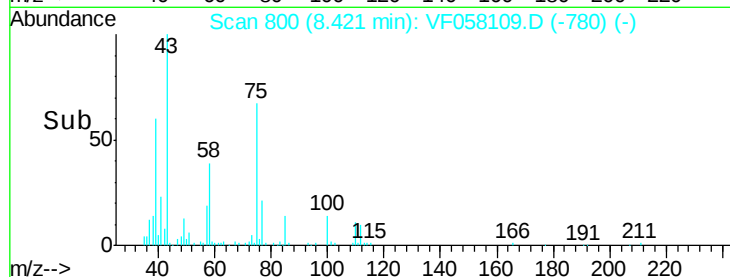
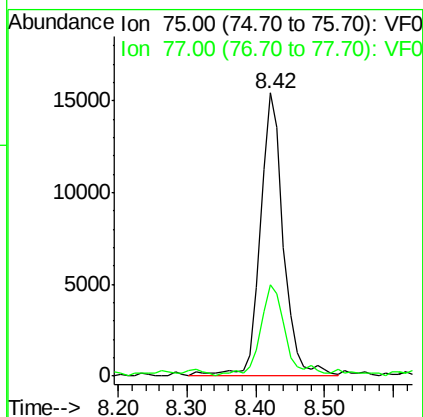
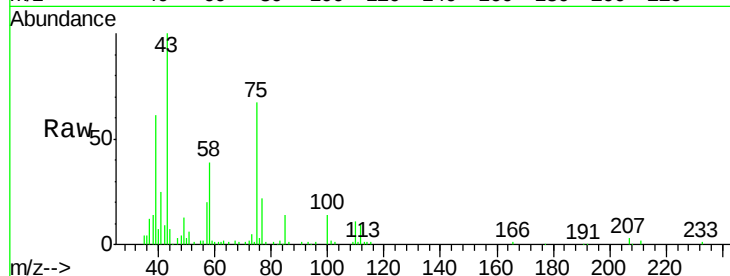
VSTDIC005

Tgt Ion: 75 Resp: 36543

Ion Ratio Lower Upper

75 100

77 32.5 25.1 37.7



#54

cis-1,3-Dichloropropene

Concen: 5.13 ug/l

RT: 7.46 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

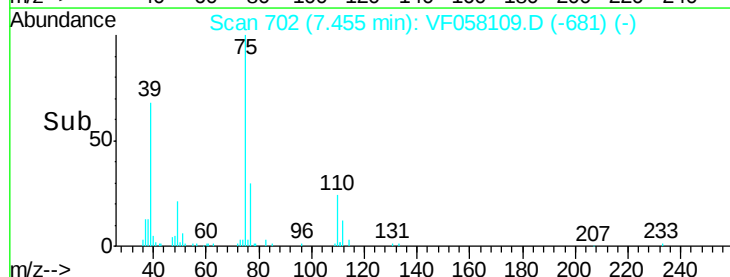
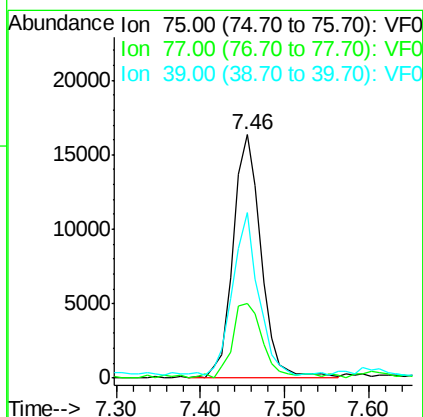
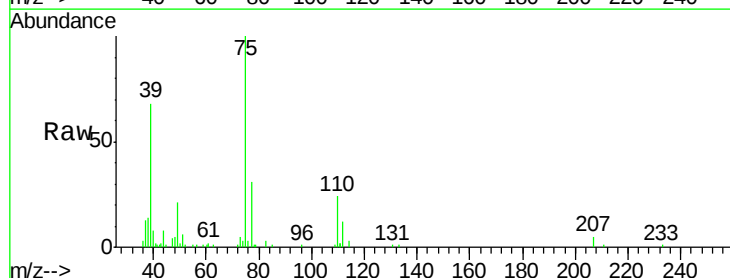
Tgt Ion: 75 Resp: 37975

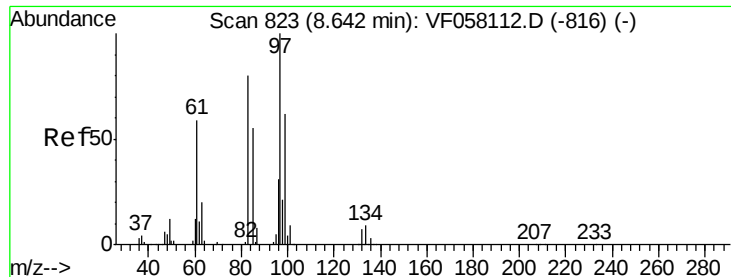
Ion Ratio Lower Upper

75 100

77 30.9 26.3 39.5

39 68.2 52.1 78.1





#55

1,1,2-Trichloroethane

Concen: 4.97 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 17884

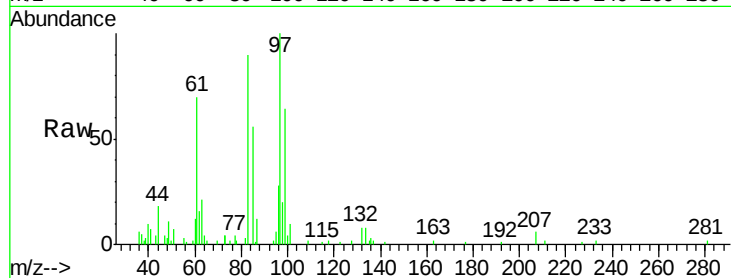
Ion Ratio Lower Upper

97 100

83 89.6 64.3 96.5

85 56.1 43.8 65.8

99 63.8 49.8 74.8

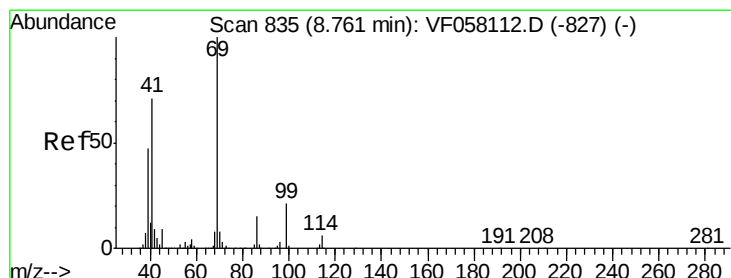
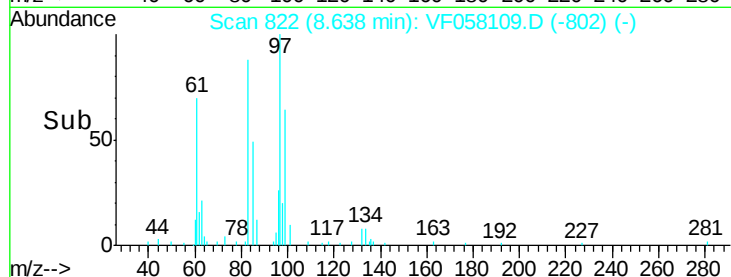
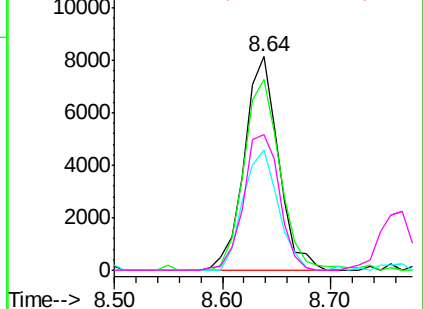


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 4.93 ug/l

RT: 8.76 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

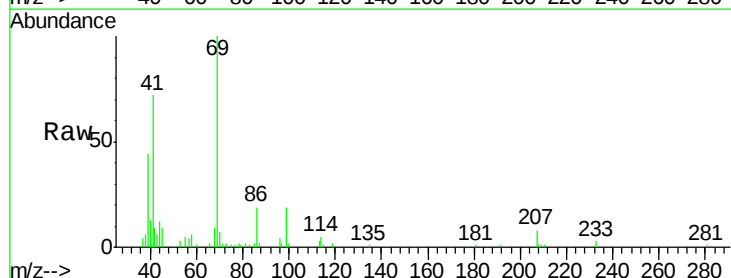
Tgt Ion: 69 Resp: 22419

Ion Ratio Lower Upper

69 100

41 72.2 56.9 85.3

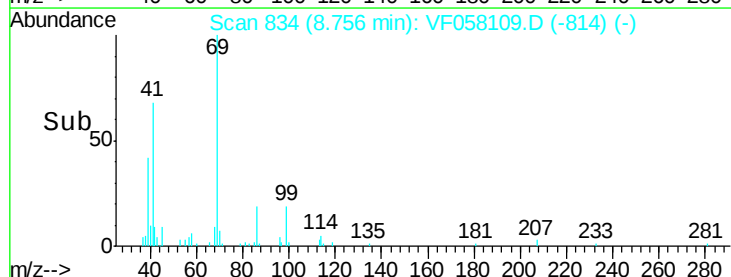
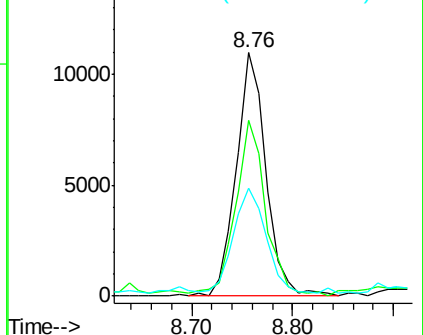
39 44.4 38.0 57.0

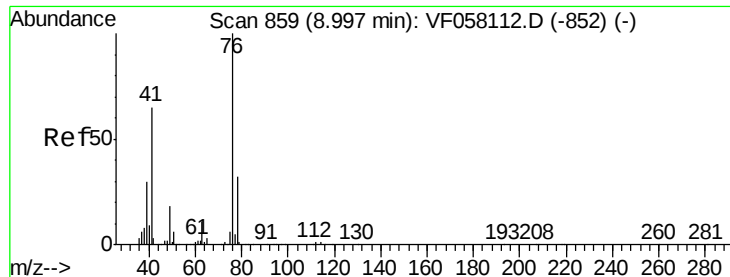


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

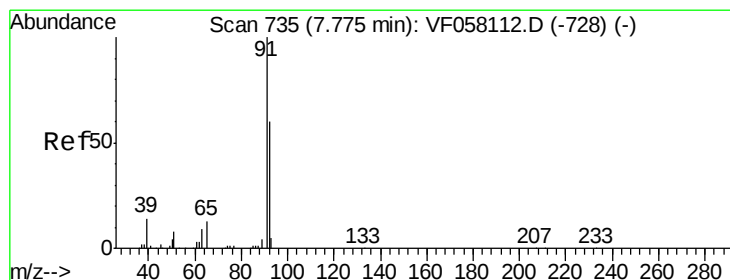
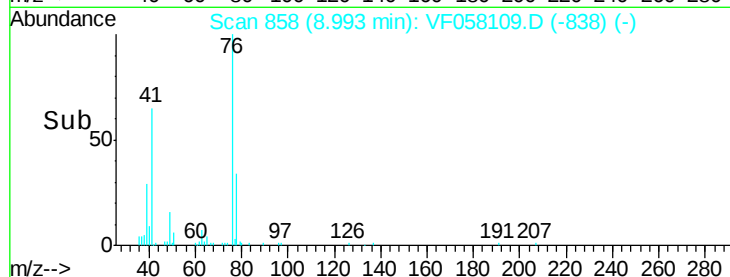
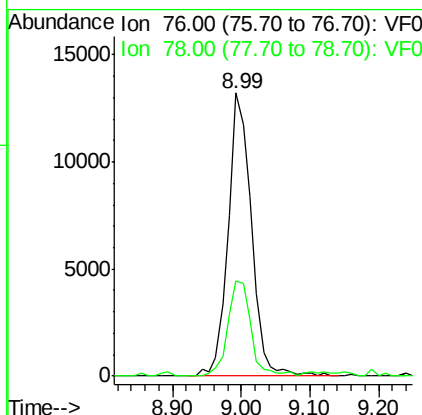
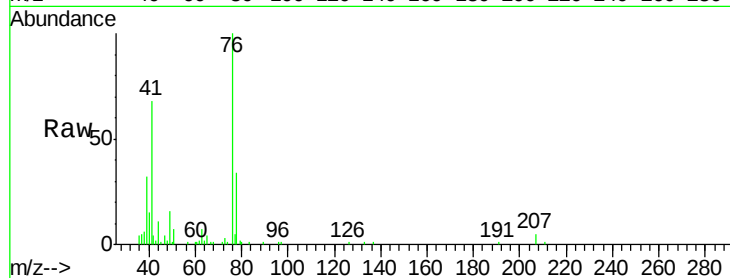




#57
 1,3-Dichloropropane
 Concen: 4.94 ug/l
 RT: 8.99 min Scan# 858
 Delta R.T. -0.00 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

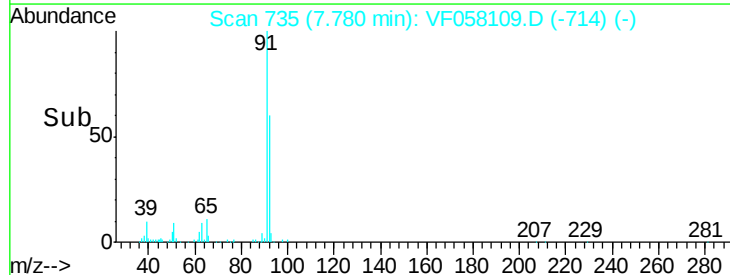
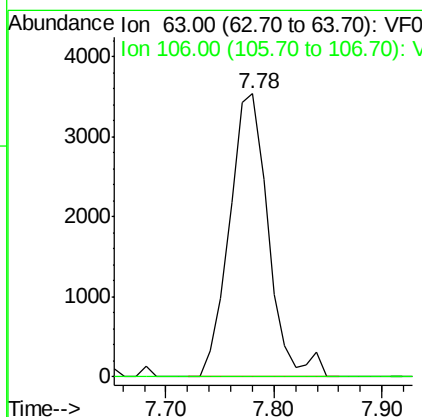
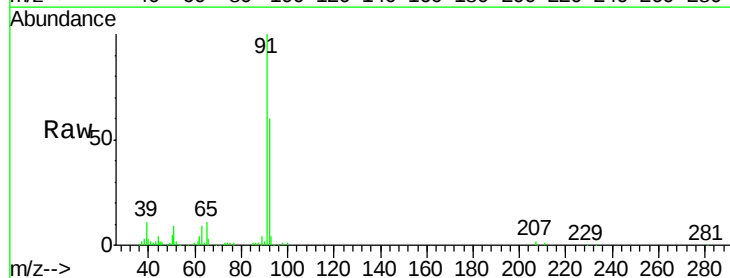
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

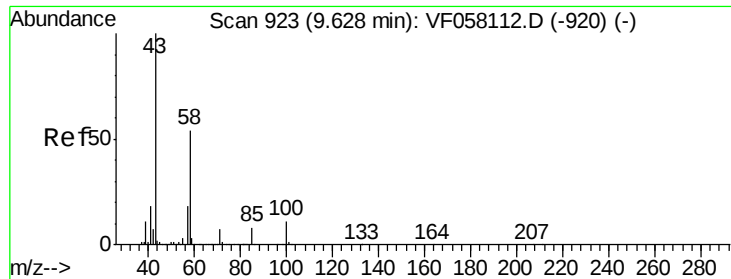
Tgt Ion: 76 Resp: 30967
 Ion Ratio Lower Upper
 76 100
 78 33.9 25.8 38.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 28.06 ug/l
 RT: 7.78 min Scan# 735
 Delta R.T. 0.01 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Tgt Ion: 63 Resp: 8828
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

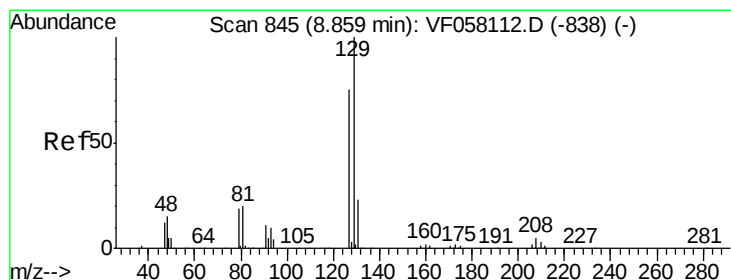
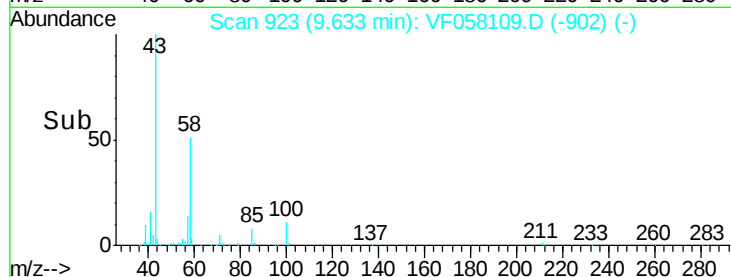
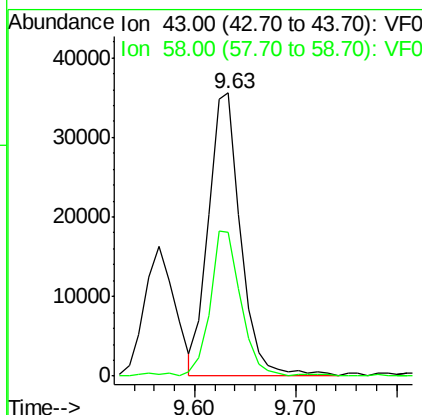
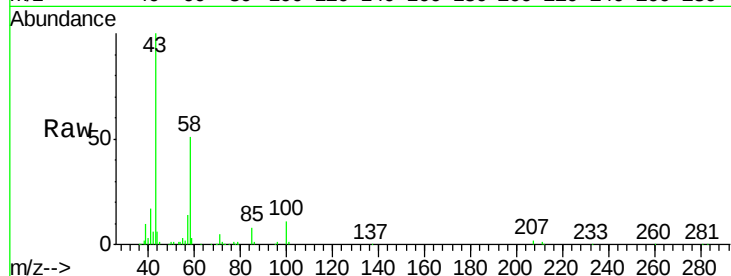




#59
2-Hexanone
Concen: 30.60 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

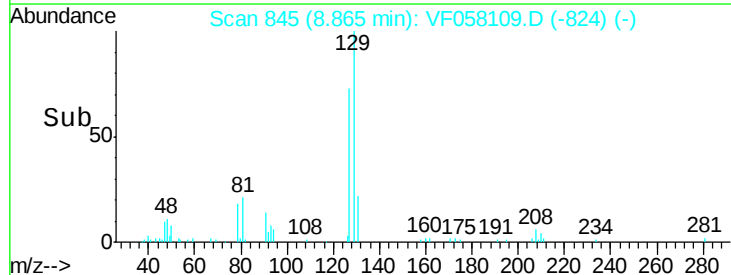
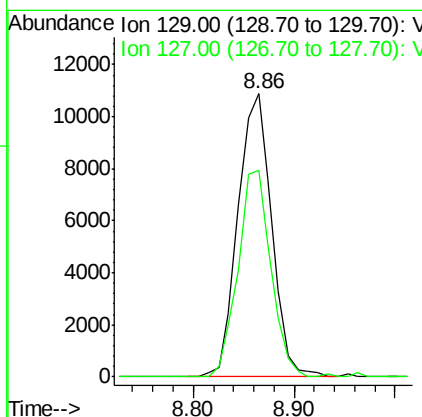
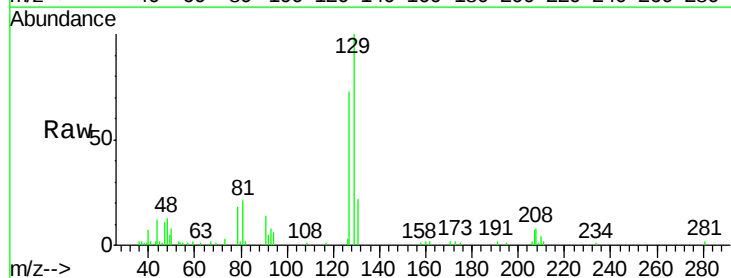
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

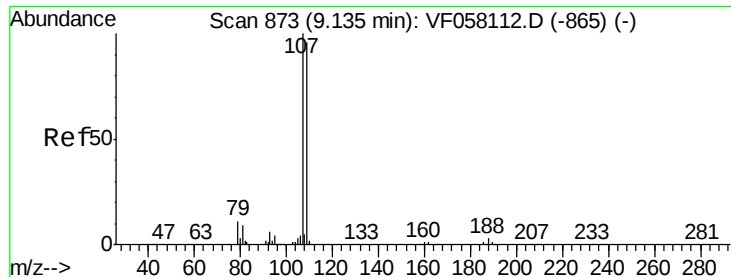
Tgt Ion: 43 Resp: 79167
Ion Ratio Lower Upper
43 100
58 50.6 26.3 78.8



#60
Dibromochloromethane
Concen: 4.94 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.01 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

Tgt Ion: 129 Resp: 25279
Ion Ratio Lower Upper
129 100
127 72.8 37.6 112.9





#61

1,2-Dibromoethane

Concen: 4.91 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

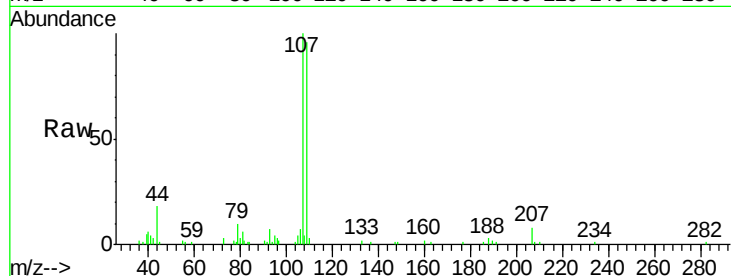
VSTDIC005

Tgt Ion: 107 Resp: 21075

Ion Ratio Lower Upper

107 100

109 96.1 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.13

10000

8000

6000

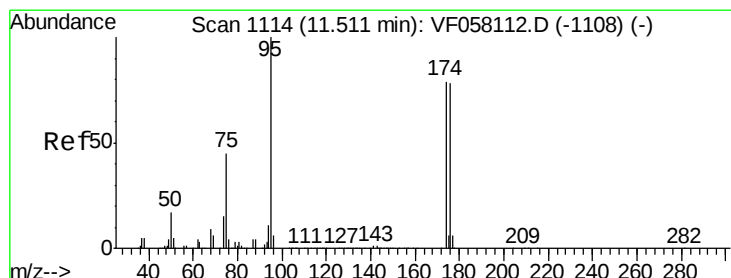
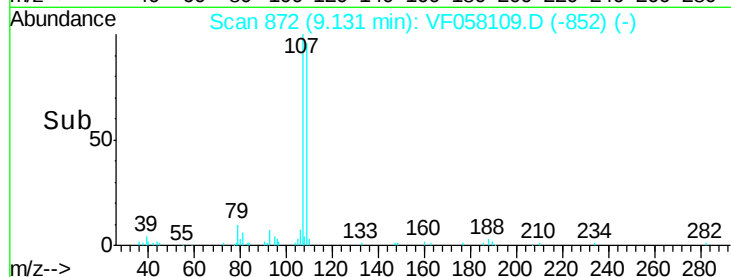
4000

2000

0

Time-->

9.00 9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 5.59 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

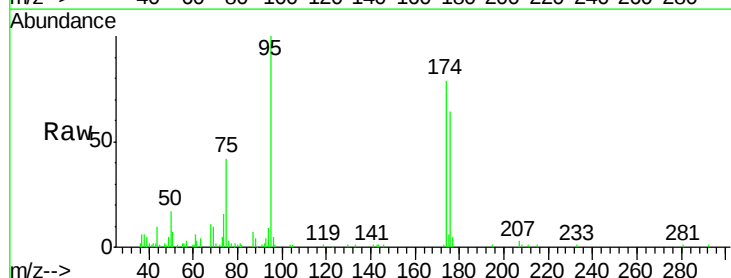
Tgt Ion: 95 Resp: 36204

Ion Ratio Lower Upper

95 100

174 78.9 0.0 157.8

176 63.7 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

30000

25000

20000

15000

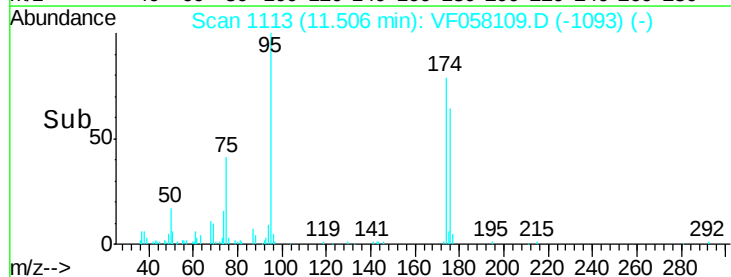
10000

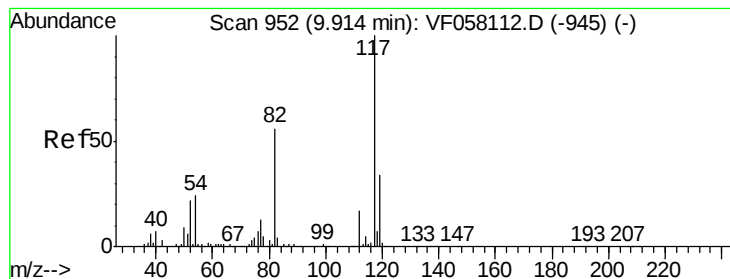
5000

0

Time-->

11.40 11.50 11.60 11.70





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

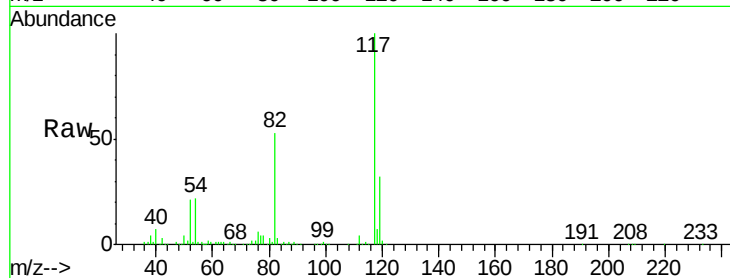
Tgt Ion:117 Resp: 580773

Ion Ratio Lower Upper

117 100

82 53.0 45.2 67.8

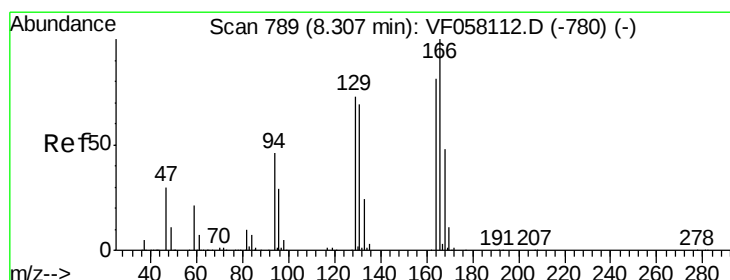
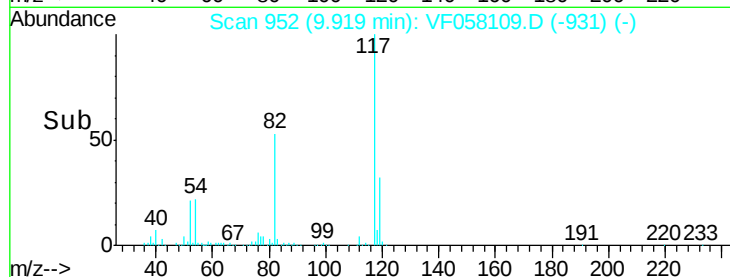
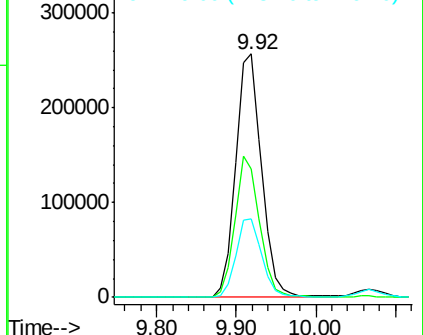
119 32.2 27.5 41.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 5.46 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Tgt Ion:164 Resp: 23920

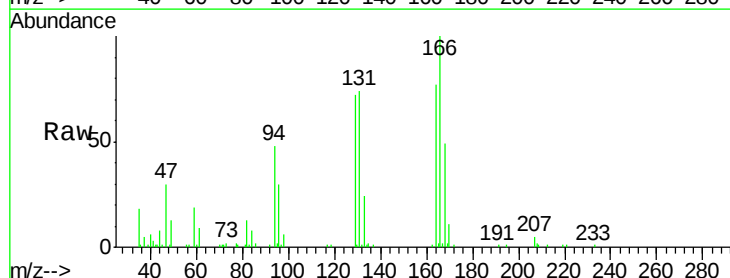
Ion Ratio Lower Upper

164 100

166 130.0 98.2 147.4

129 93.6 71.6 107.4

131 95.8 67.8 101.6

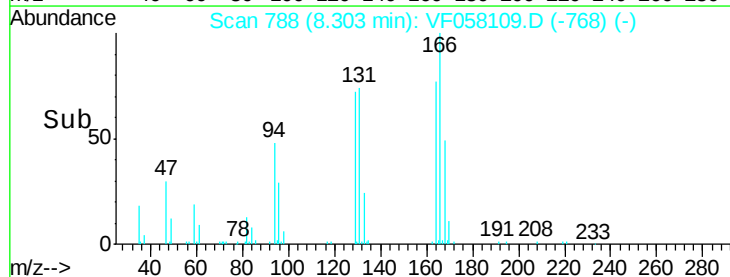
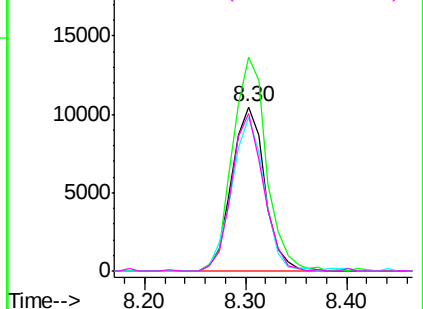


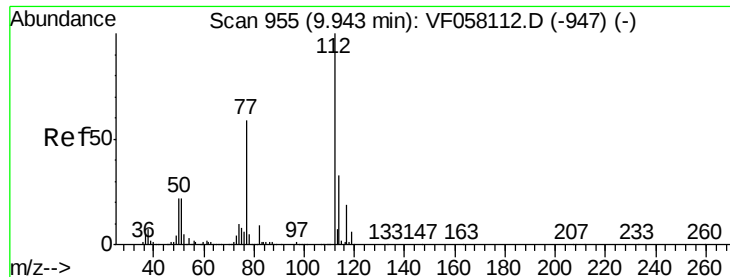
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

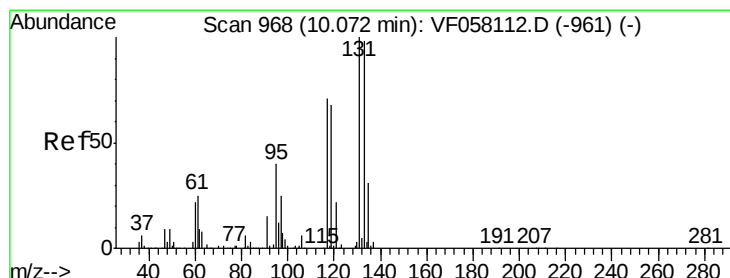
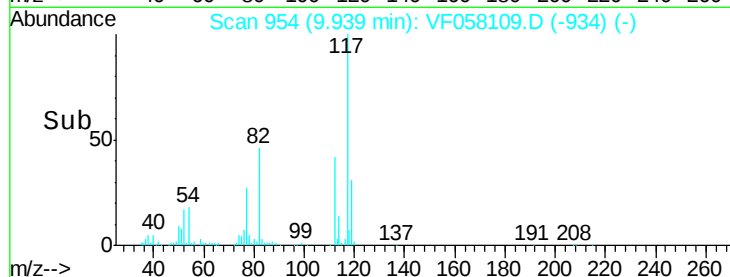
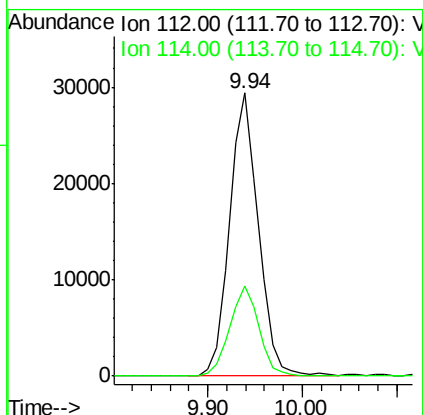
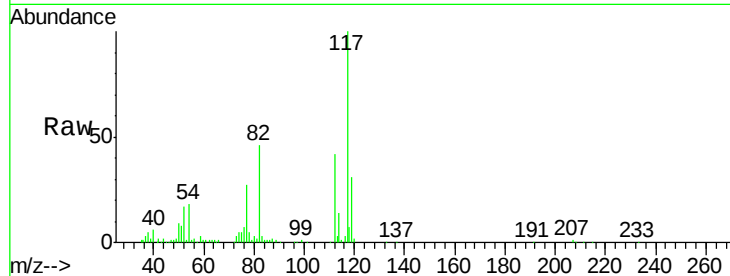




#65
Chlorobenzene
Concen: 5.25 ug/l
RT: 9.94 min Scan# 954
Delta R.T. -0.00 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

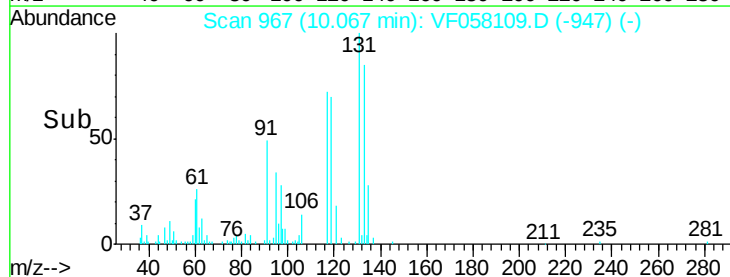
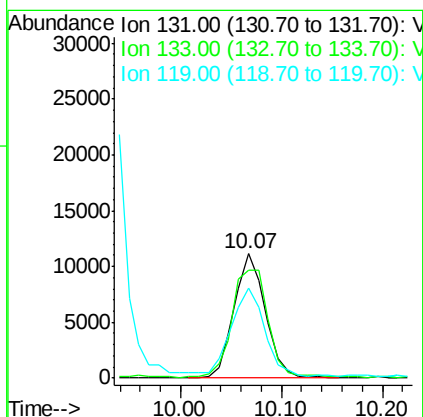
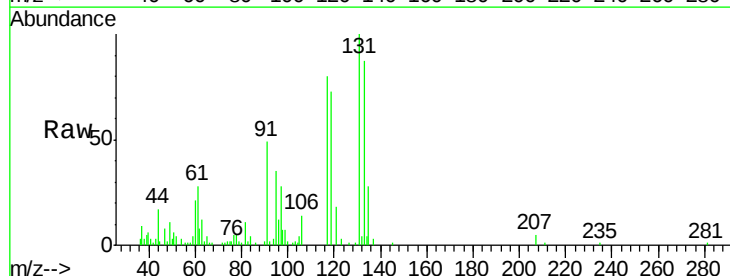
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

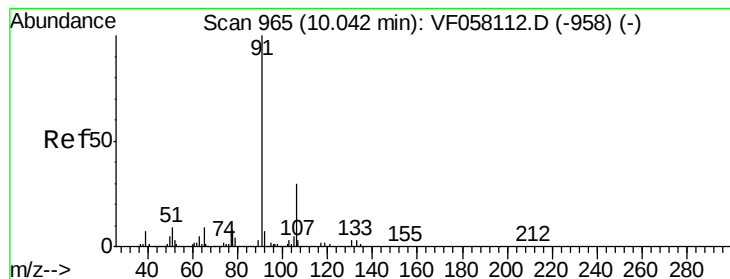
Tgt Ion:112 Resp: 61824
Ion Ratio Lower Upper
112 100
114 31.9 26.2 39.4



#66
1,1,1,2-Tetrachloroethane
Concen: 5.24 ug/l
RT: 10.07 min Scan# 967
Delta R.T. -0.00 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

Tgt Ion:131 Resp: 24094
Ion Ratio Lower Upper
131 100
133 83.2 49.1 147.4
119 70.1 34.3 102.8





#67

Ethyl Benzene

Concen: 5.26 ug/l

RT: 10.04 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

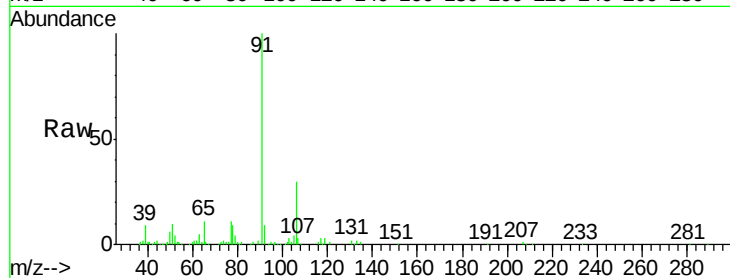
VSTDIC005

Tgt Ion: 91 Resp: 108859

Ion Ratio Lower Upper

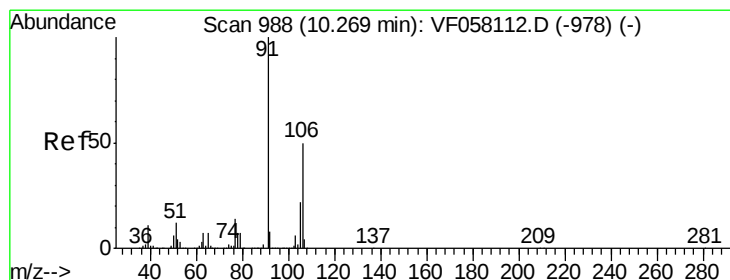
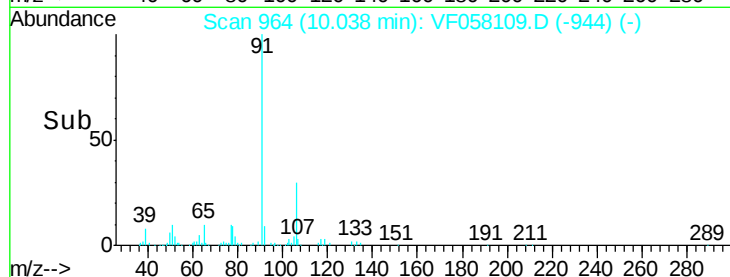
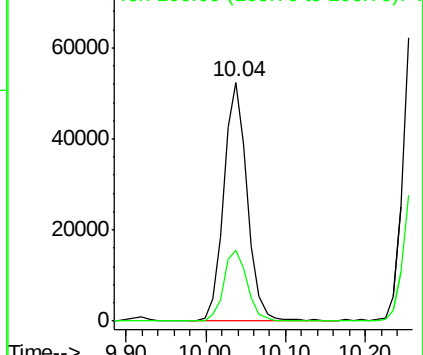
91 100

106 29.9 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: 10.84 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.00 min

Lab File: VF058109.D

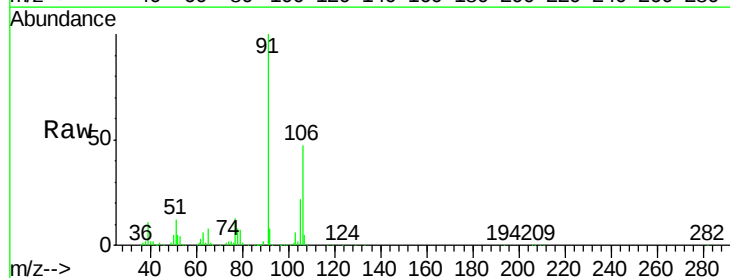
Acq: 6 Jun 2018 16:17

Tgt Ion: 106 Resp: 83104

Ion Ratio Lower Upper

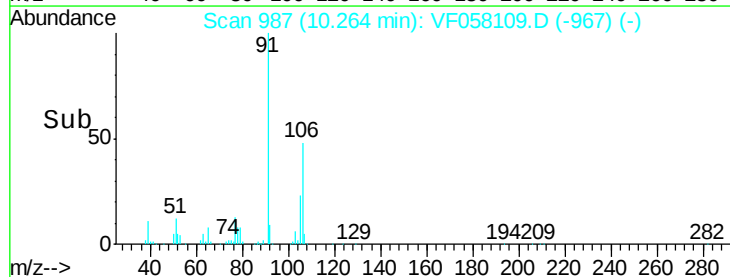
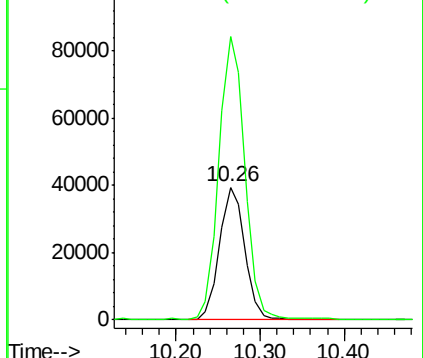
106 100

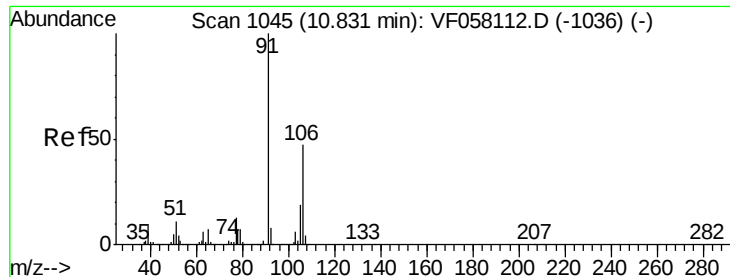
91 212.9 160.7 241.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

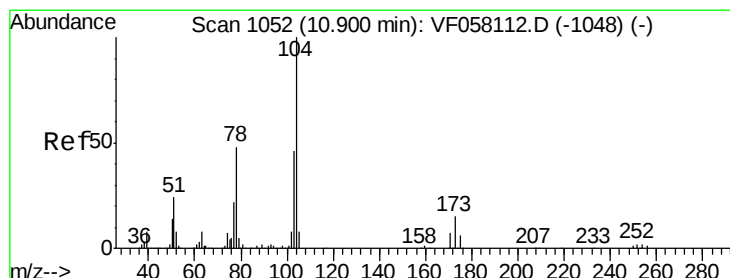
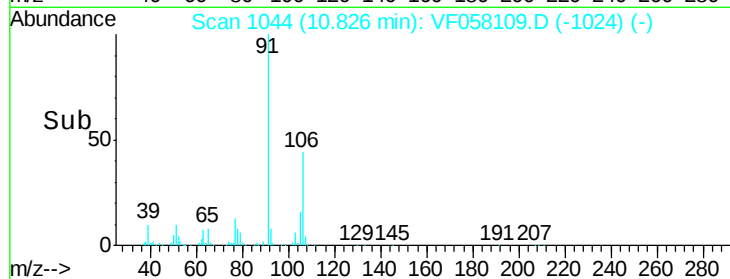
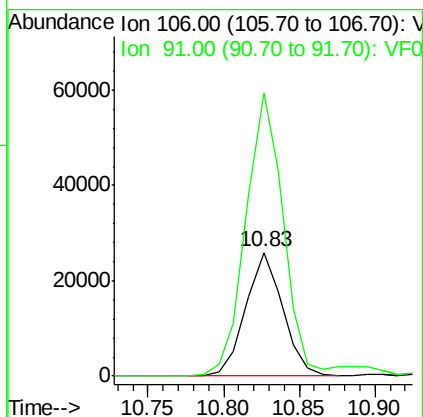
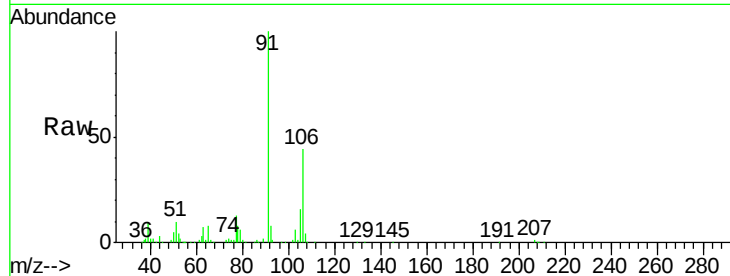




#69
o-Xylene
Concen: 5.33 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

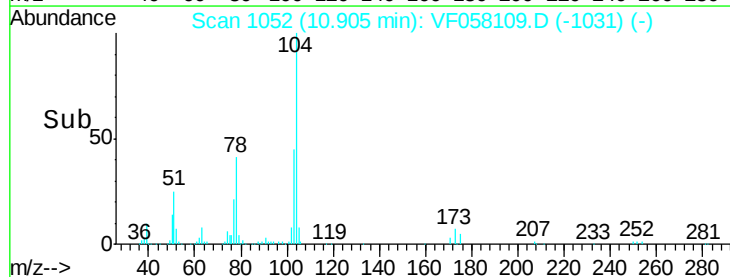
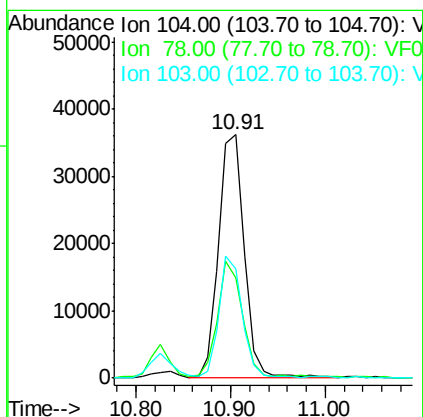
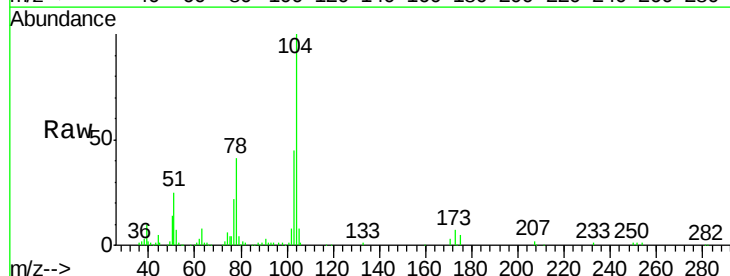
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

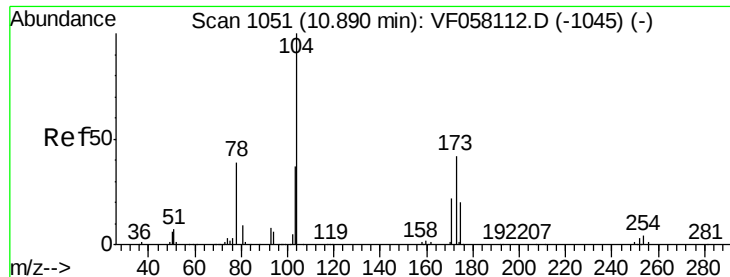
Tgt Ion:106 Resp: 44529
Ion Ratio Lower Upper
106 100
91 228.3 107.0 321.0



#70
Styrene
Concen: 5.50 ug/l
RT: 10.91 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VF058109.D
Acq: 6 Jun 2018 16:17

Tgt Ion:104 Resp: 68888
Ion Ratio Lower Upper
104 100
78 40.9 38.4 57.6
103 44.7 37.0 55.6





#71

Bromoform

Concen: 4.75 ug/l

RT: 10.89 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

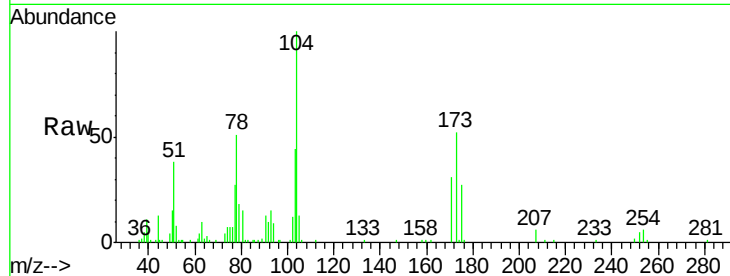
Tgt Ion:173 Resp: 15018

Ion Ratio Lower Upper

173 100

175 51.4 24.6 74.0

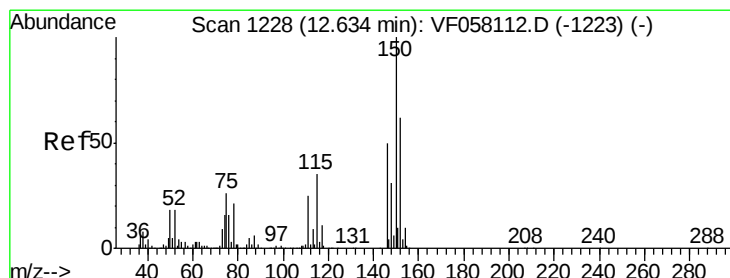
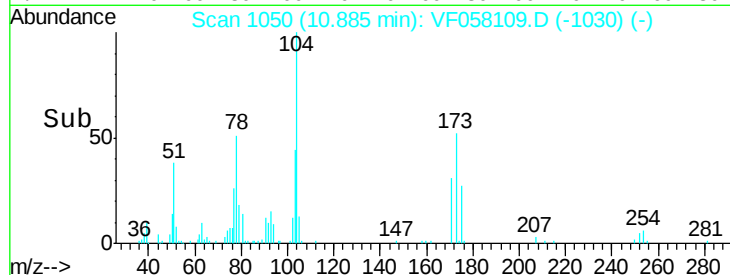
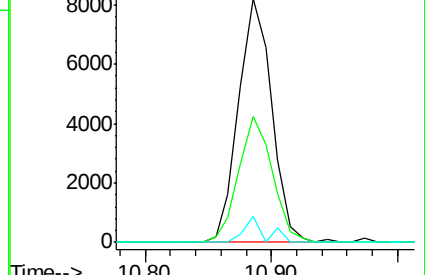
254 10.9 7.8 11.8



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. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

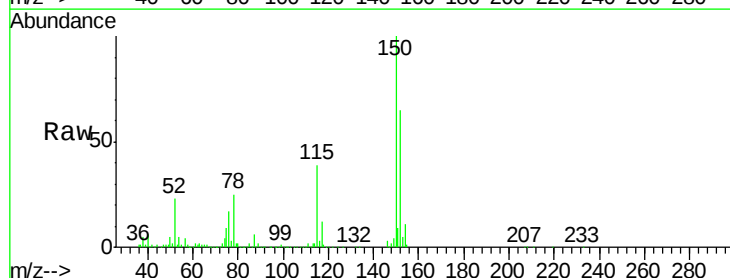
Tgt Ion:152 Resp: 351147

Ion Ratio Lower Upper

152 100

115 59.3 28.5 85.5

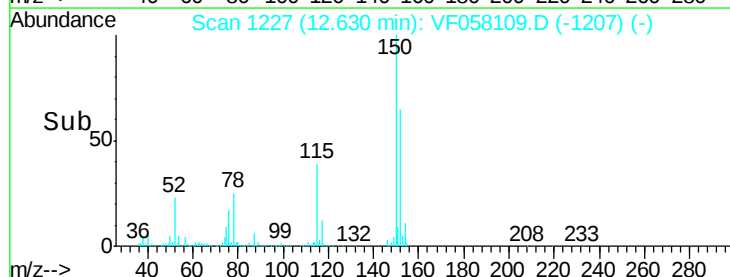
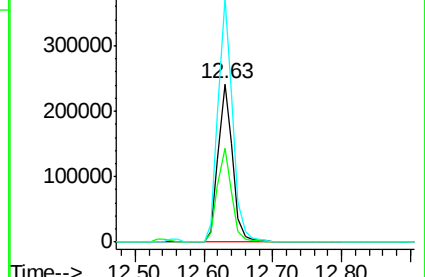
150 153.6 0.0 323.8

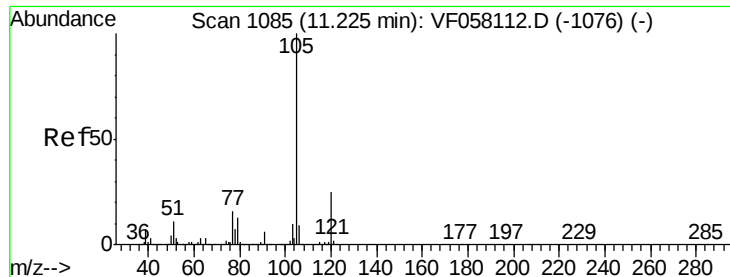


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 5.48 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

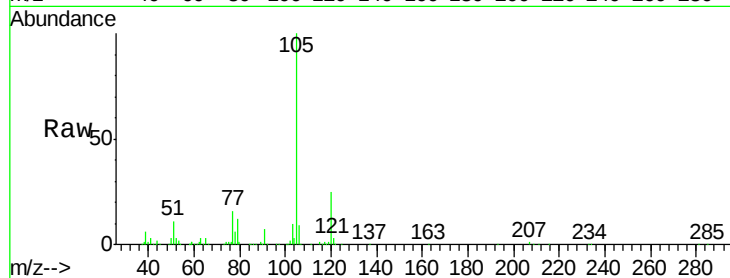
VSTDIC005

Tgt Ion:105 Resp: 136653

Ion Ratio Lower Upper

105 100

120 25.3 12.7 38.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

80000

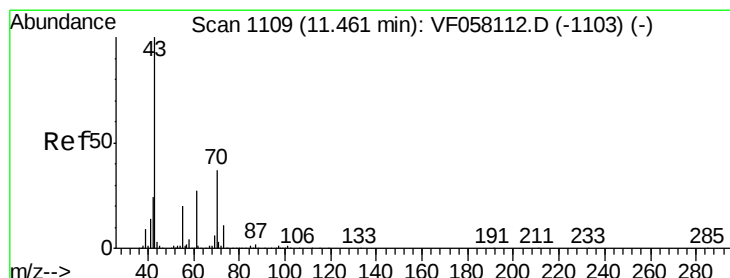
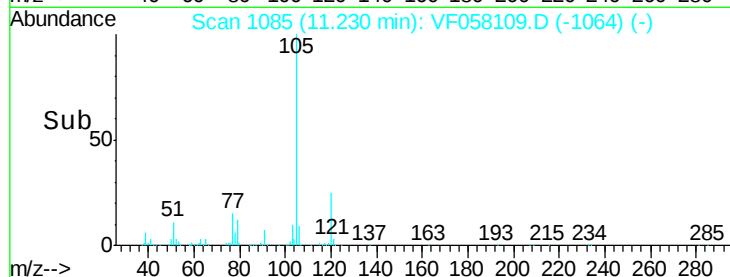
60000

40000

20000

0

Time--> 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 5.09 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Tgt Ion: 43 Resp: 47290

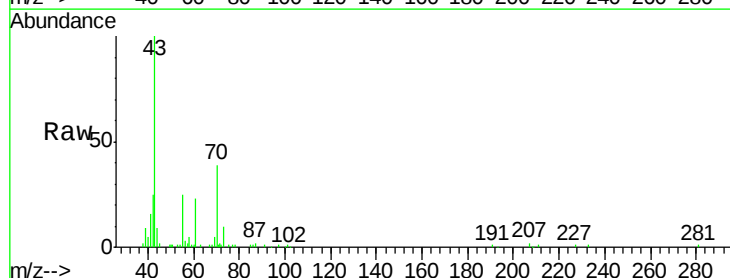
Ion Ratio Lower Upper

43 100

70 38.5 29.2 43.8

55 24.9 15.8 23.6#

61 23.0 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

40000

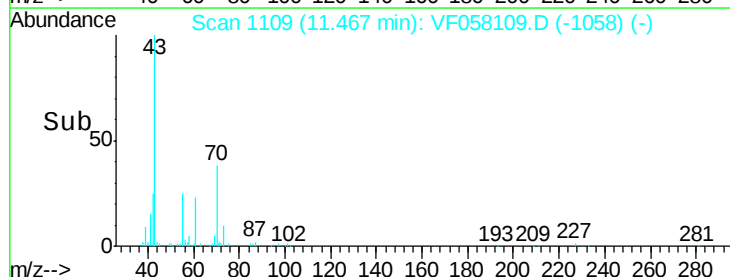
30000

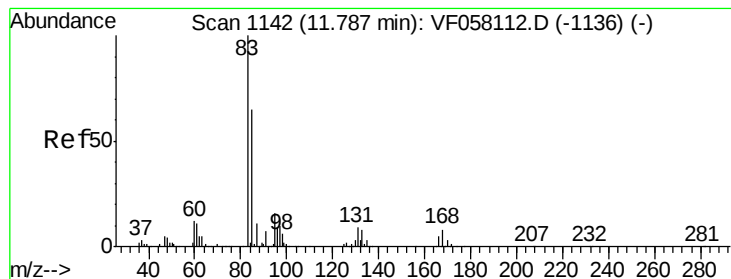
20000

10000

0

Time--> 11.40 11.45 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 5.33 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

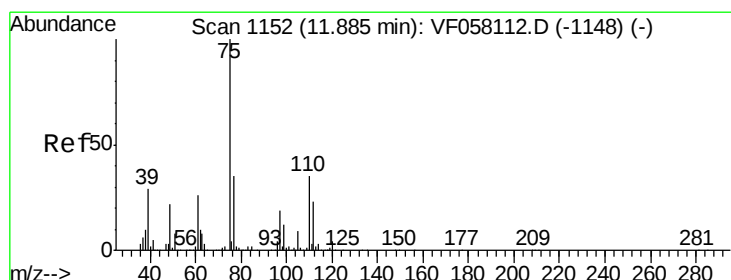
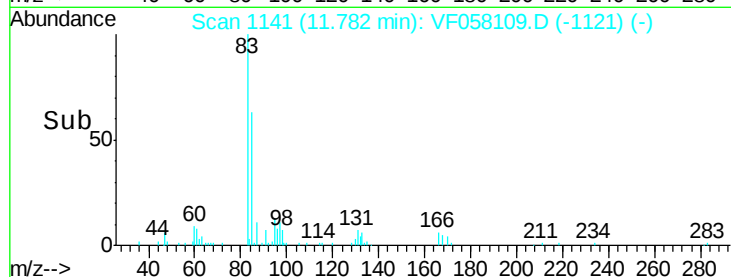
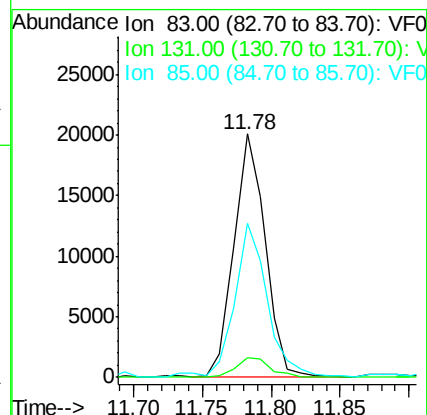
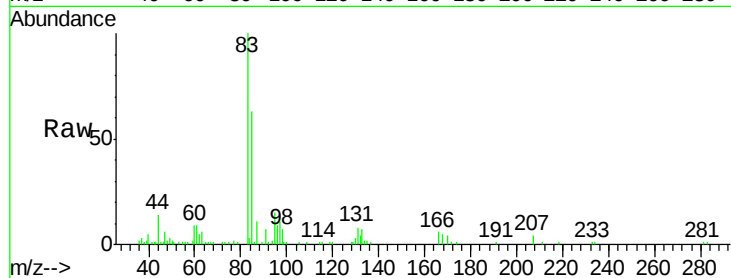
Tgt Ion: 83 Resp: 31810

Ion Ratio Lower Upper

83 100

131 7.9 4.5 13.7

85 63.5 32.8 98.3



#76

1,2,3-Trichloropropane

Concen: 5.22 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.00 min

Lab File: VF058109.D

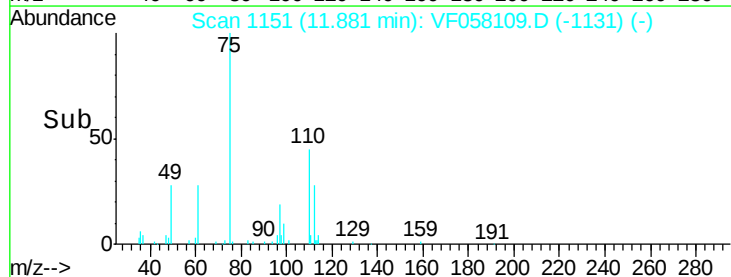
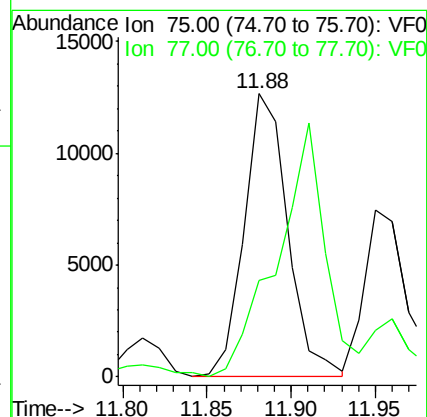
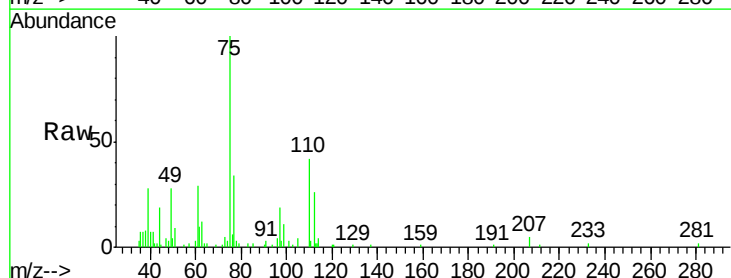
Acq: 6 Jun 2018 16:17

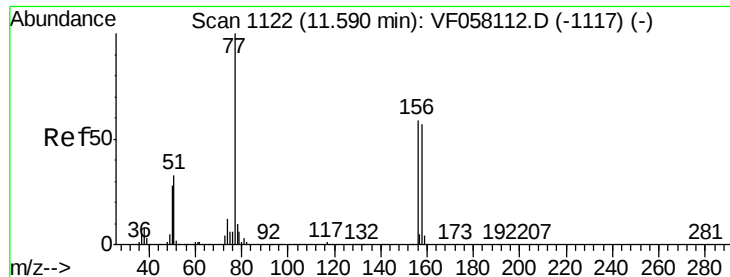
Tgt Ion: 75 Resp: 22771

Ion Ratio Lower Upper

75 100

77 34.1 17.5 52.5





#77

Bromobenzene

Concen: 5.24 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

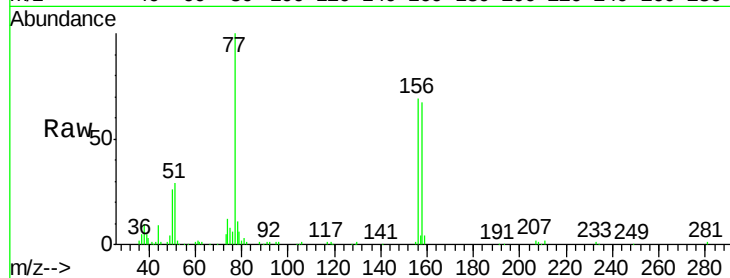
Tgt Ion:156 Resp: 32593

Ion Ratio Lower Upper

156 100

77 145.7 84.8 254.4

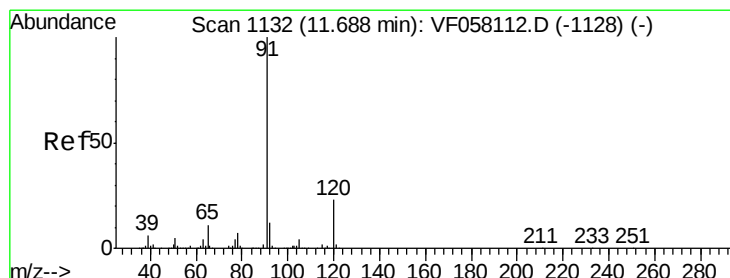
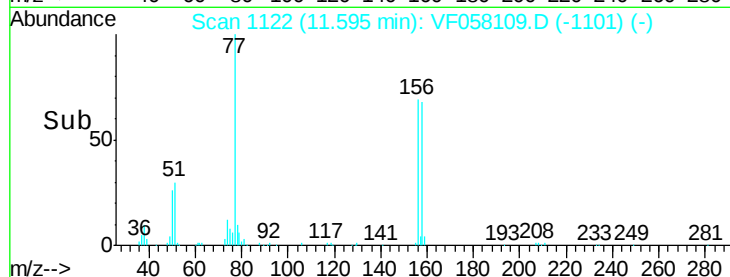
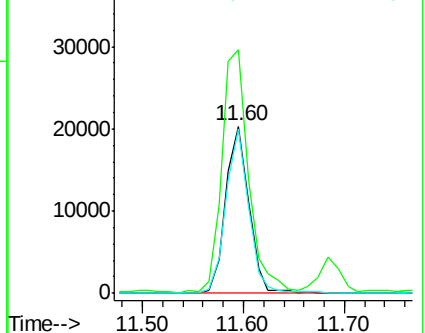
158 98.2 47.9 143.7



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: 5.56 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF058109.D

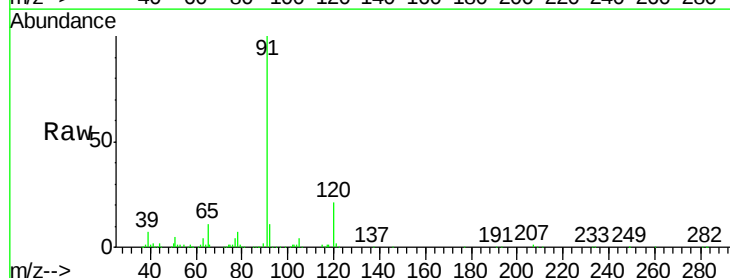
Acq: 6 Jun 2018 16:17

Tgt Ion: 91 Resp: 165799

Ion Ratio Lower Upper

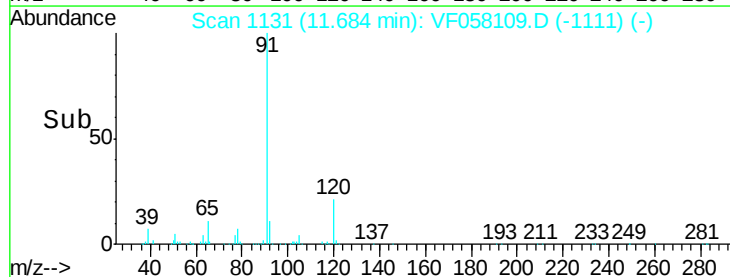
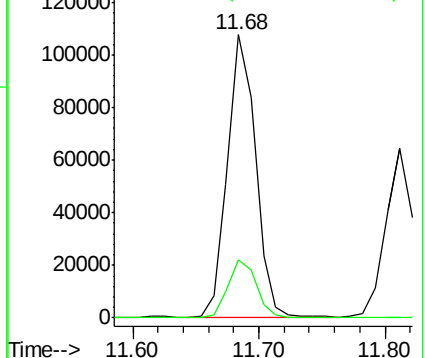
91 100

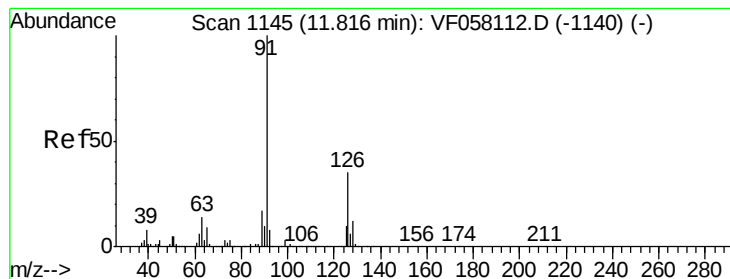
120 20.6 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.52 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

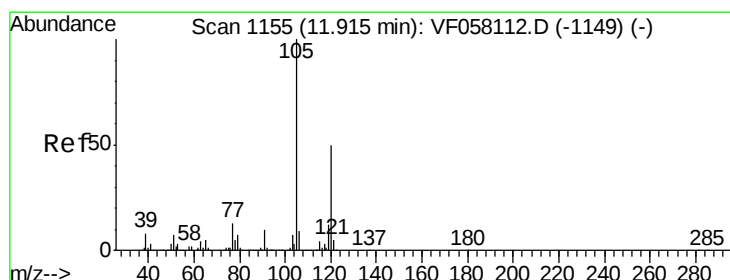
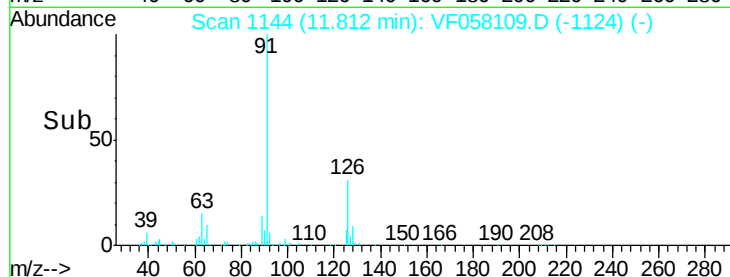
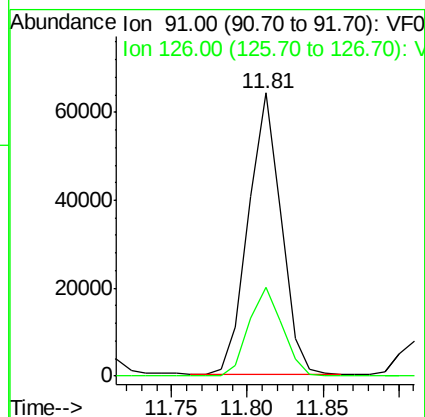
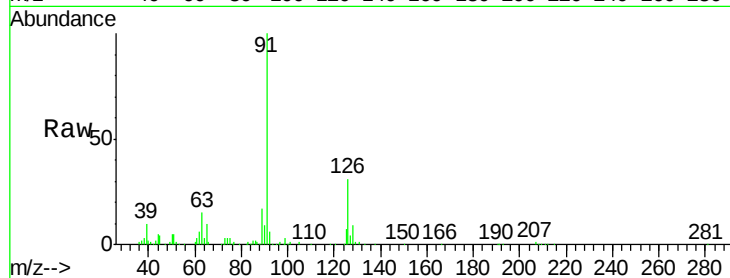
VSTDIC005

Tgt Ion: 91 Resp: 97152

Ion Ratio Lower Upper

91 100

126 31.2 17.6 52.9



#80

1,3,5-Trimethylbenzene

Concen: 5.57 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VF058109.D

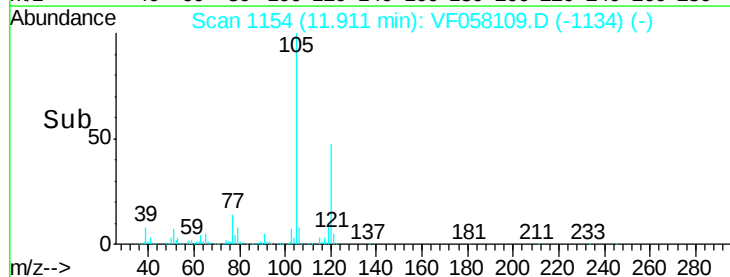
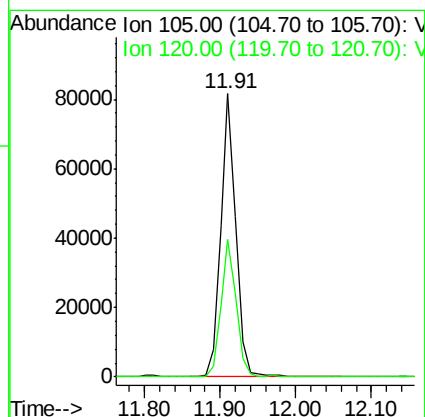
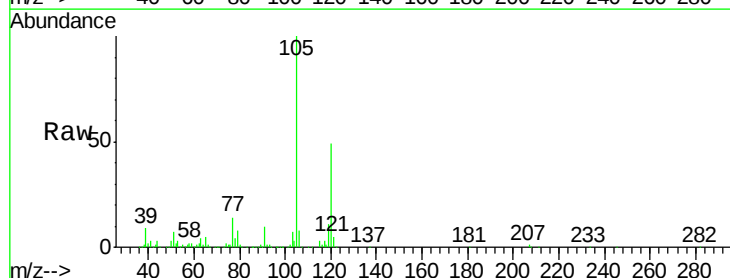
Acq: 6 Jun 2018 16:17

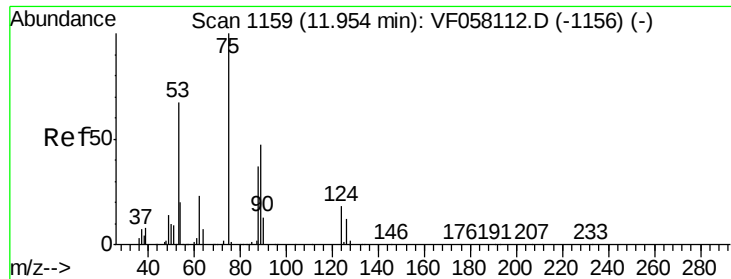
Tgt Ion: 105 Resp: 115182

Ion Ratio Lower Upper

105 100

120 48.6 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 5.57 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

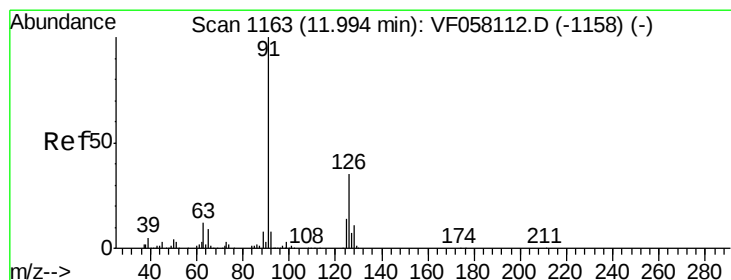
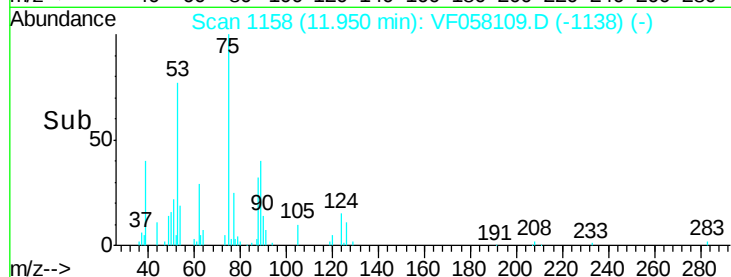
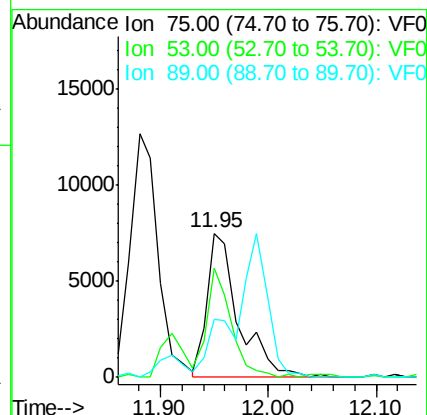
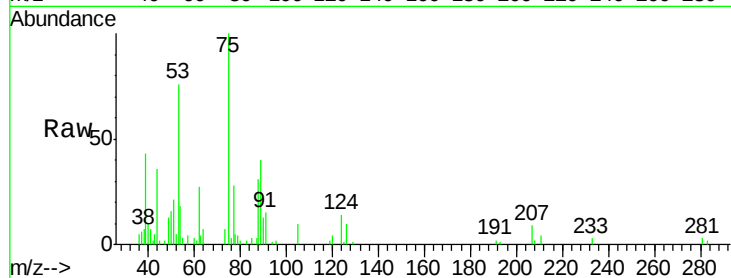
Tgt Ion: 75 Resp: 15388

Ion Ratio Lower Upper

75 100

53 75.6 58.7 88.1

89 40.1 39.8 59.6



#82

4-Chlorotoluene

Concen: 5.58 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.00 min

Lab File: VF058109.D

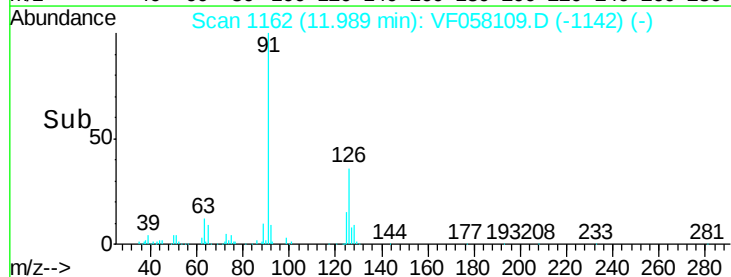
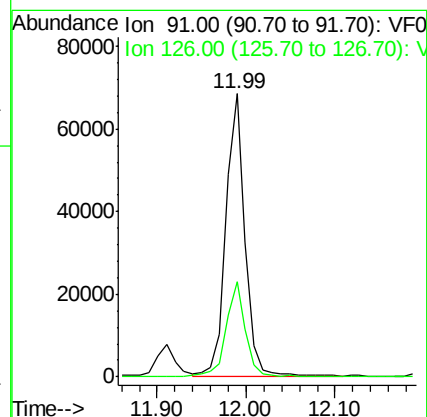
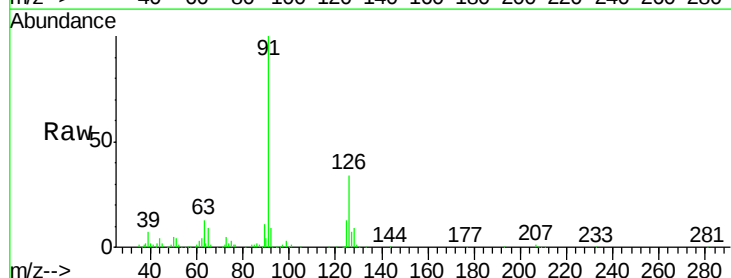
Acq: 6 Jun 2018 16:17

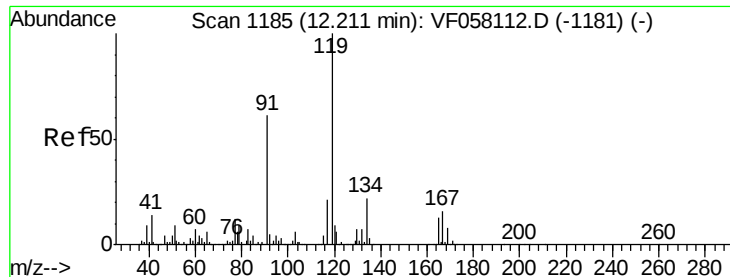
Tgt Ion: 91 Resp: 103493

Ion Ratio Lower Upper

91 100

126 33.8 17.4 52.2

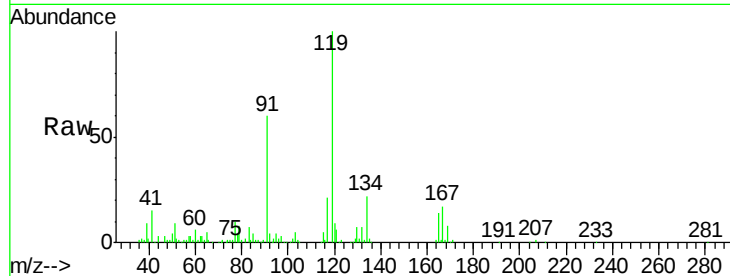




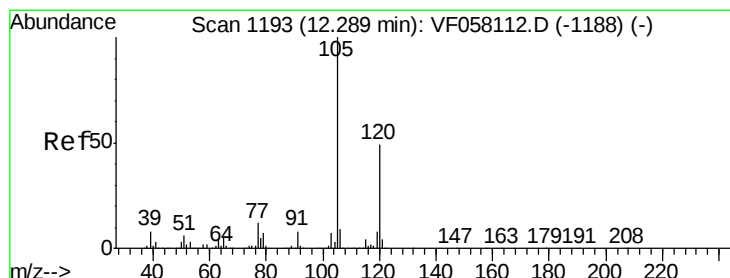
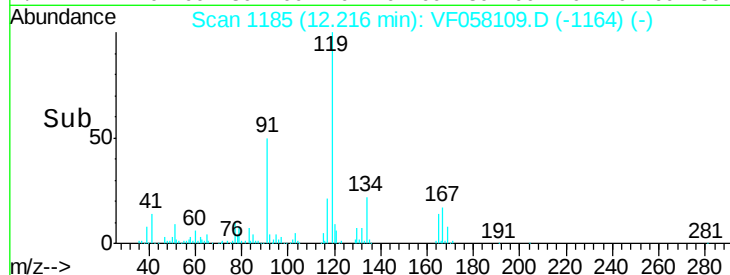
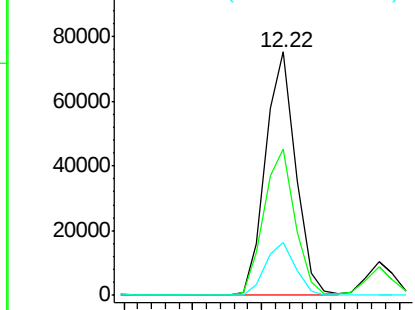
#83
 tert-Butylbenzene
 Concen: 5.56 ug/l
 RT: 12.22 min Scan# 1185
 Delta R.T. 0.01 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tgt Ion:119 Resp: 114912
 Ion Ratio Lower Upper
 119 100
 91 59.9 30.4 91.3
 134 21.9 11.2 33.5

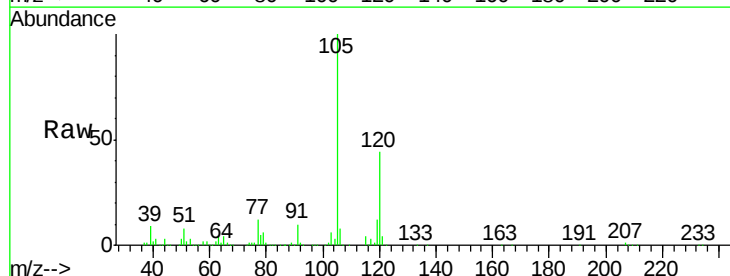


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

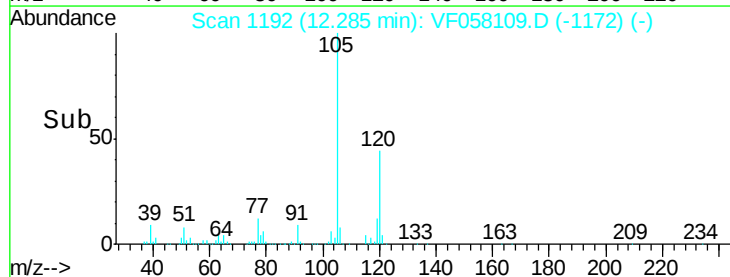
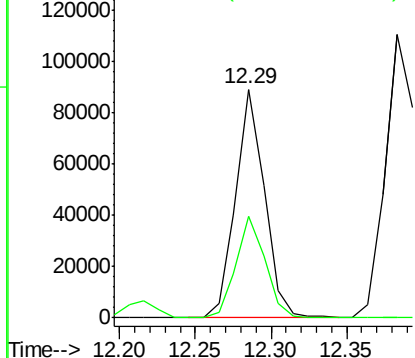


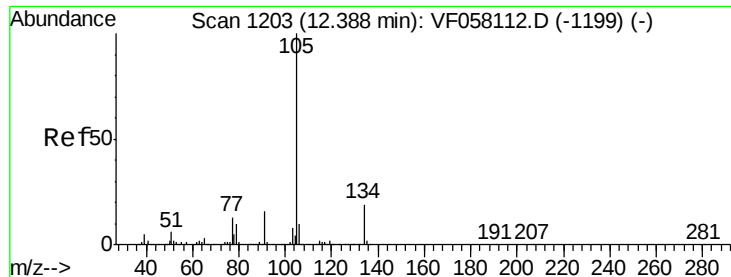
#84
 1,2,4-Trimethylbenzene
 Concen: 5.54 ug/l
 RT: 12.29 min Scan# 1192
 Delta R.T. -0.00 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Tgt Ion:105 Resp: 118764
 Ion Ratio Lower Upper
 105 100
 120 44.4 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: 5.73 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

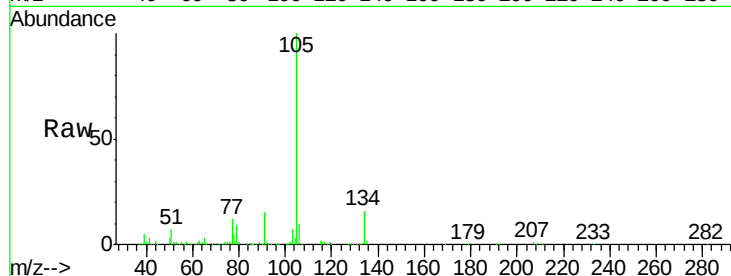
VSTDIC005

Tgt Ion:105 Resp: 160362

Ion Ratio Lower Upper

105 100

134 16.1 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

120000

100000

80000

60000

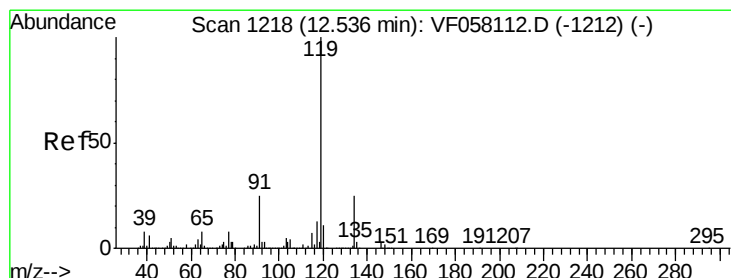
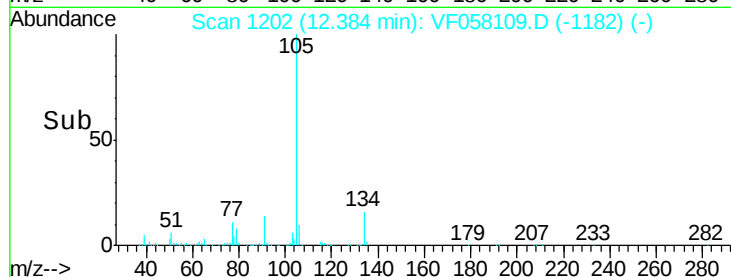
40000

20000

0

12.30 12.40 12.50

Time-->



#86

p-Isopropyltoluene

Concen: 5.30 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

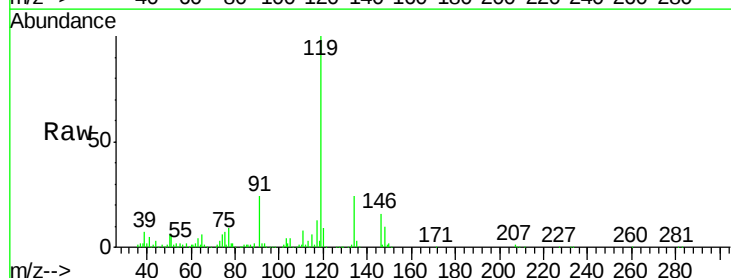
Tgt Ion:119 Resp: 123761

Ion Ratio Lower Upper

119 100

134 24.2 12.7 38.0

91 24.2 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

120000

100000

80000

60000

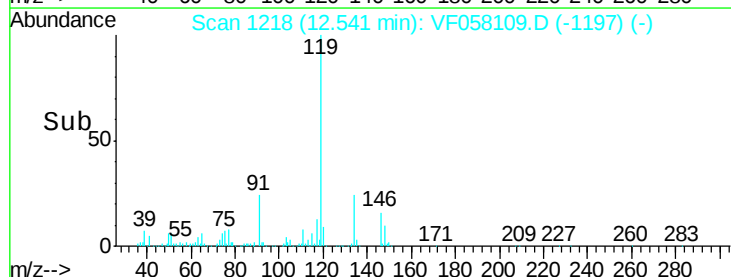
40000

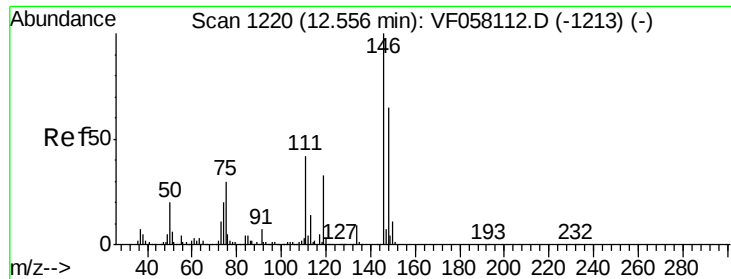
20000

0

12.50 12.60

Time-->





#87

1,3-Dichlorobenzene

Concen: 5.77 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

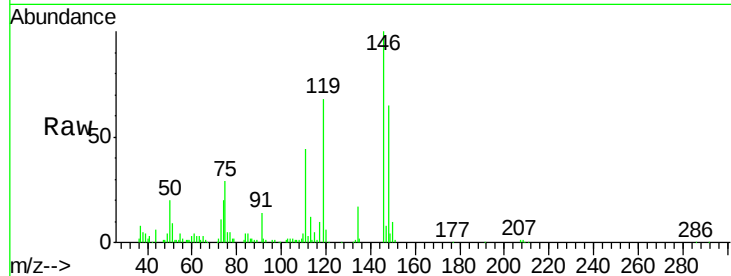
Tgt Ion:146 Resp: 66109

Ion Ratio Lower Upper

146 100

111 43.5 20.8 62.5

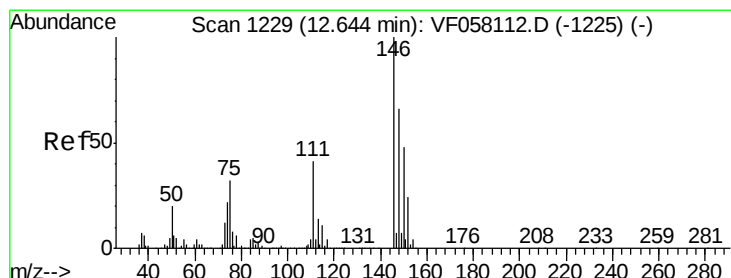
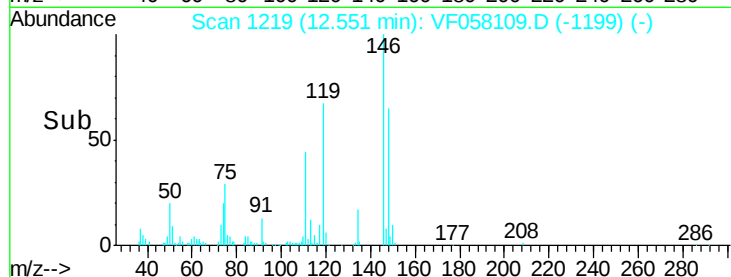
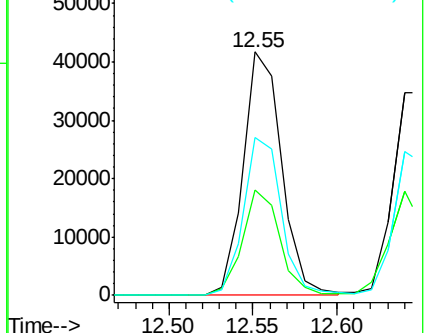
148 65.0 32.3 96.9



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: 5.44 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

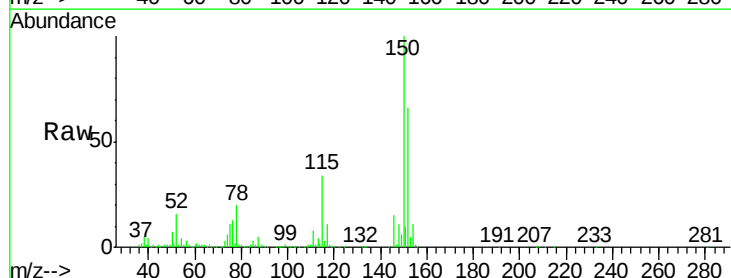
Tgt Ion:146 Resp: 59836

Ion Ratio Lower Upper

146 100

111 51.3 20.4 61.2

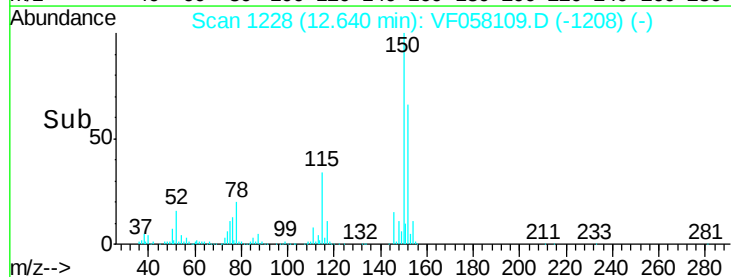
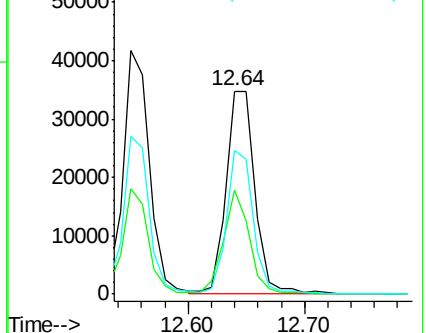
148 71.0 33.0 99.0

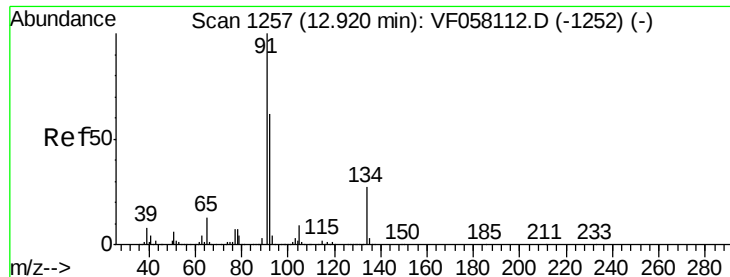


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 5.60 ug/l

RT: 12.92 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

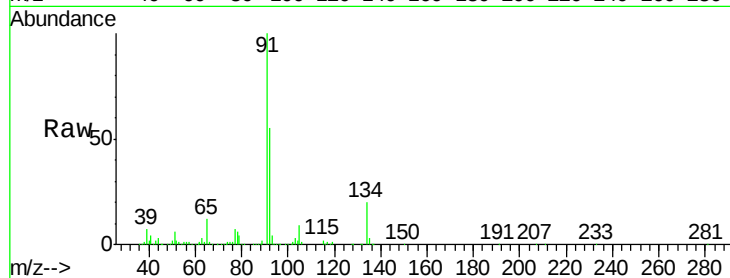
Tgt Ion: 91 Resp: 136336

Ion Ratio Lower Upper

91 100

92 55.2 31.1 93.5

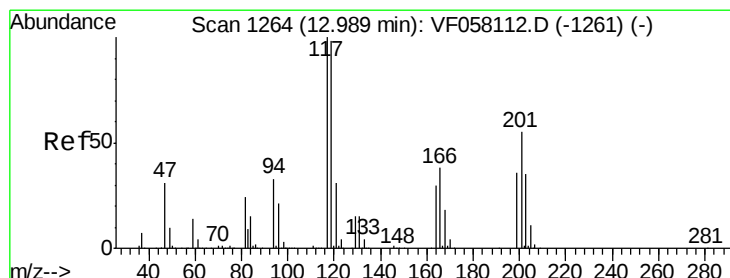
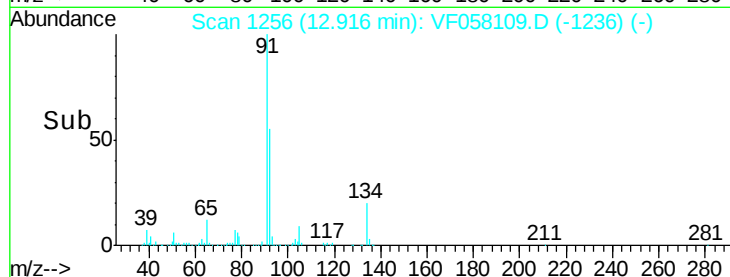
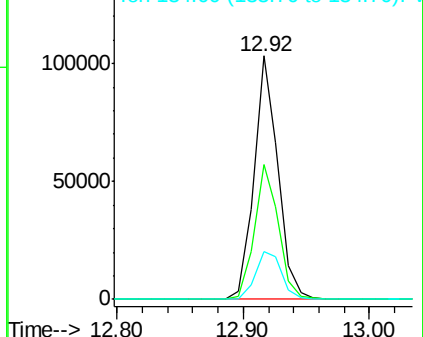
134 19.6 13.6 40.8



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: 5.15 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VF058109.D

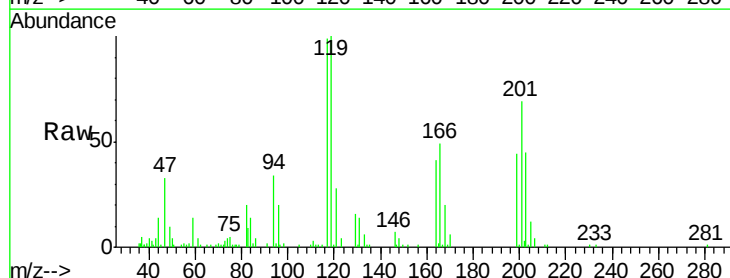
Acq: 6 Jun 2018 16:17

Tgt Ion: 117 Resp: 29014

Ion Ratio Lower Upper

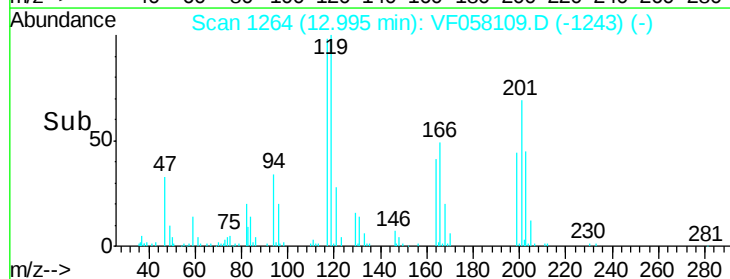
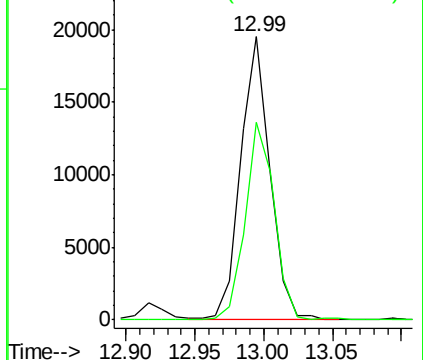
117 100

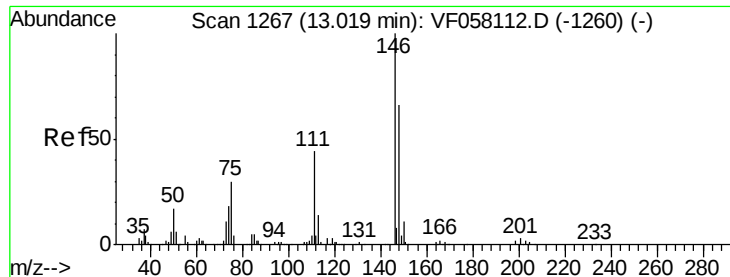
201 69.7 27.5 82.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

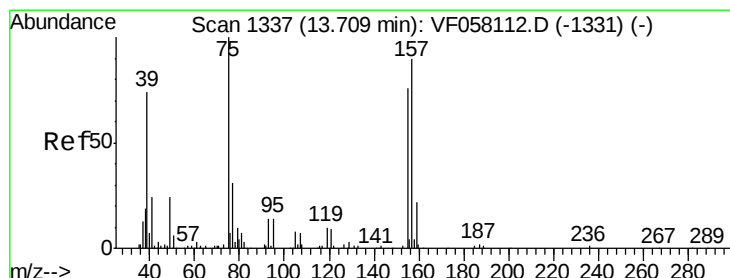
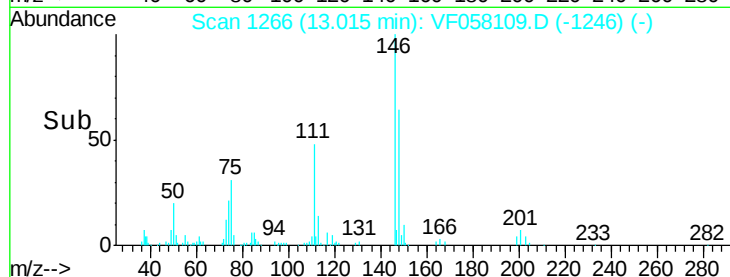
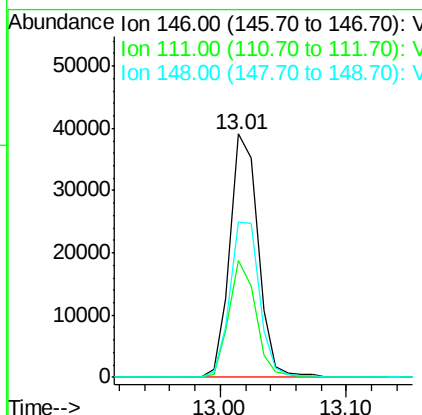
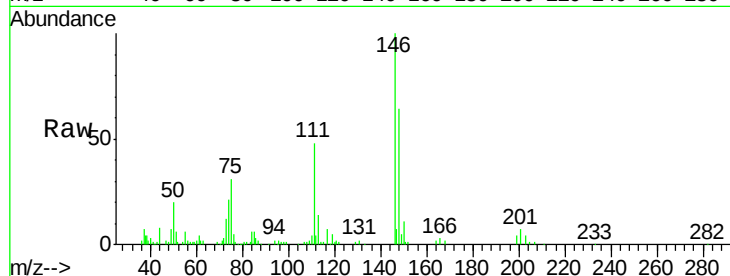




#91
 1,2-Dichlorobenzene
 Concen: 5.45 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

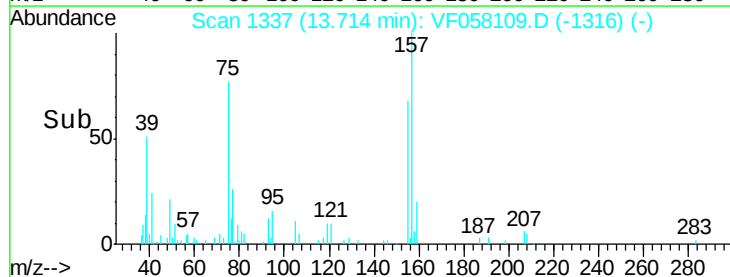
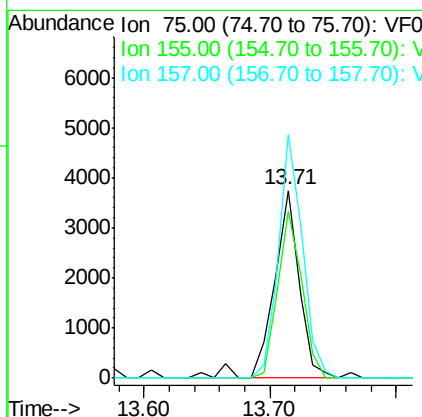
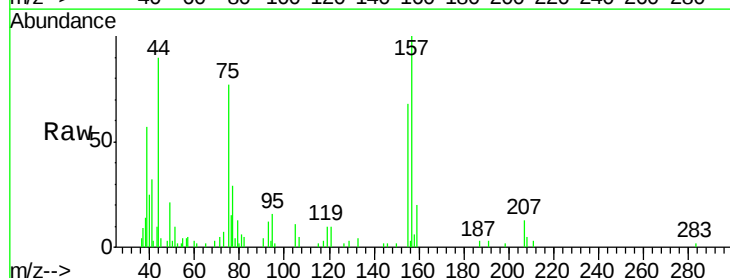
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

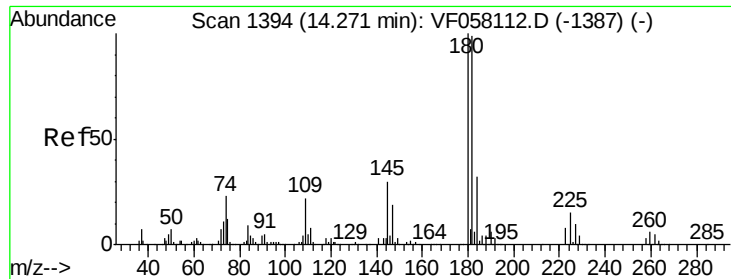
Tgt Ion:146 Resp: 60651
 Ion Ratio Lower Upper
 146 100
 111 47.8 22.0 66.0
 148 63.6 33.1 99.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.60 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Tgt Ion: 75 Resp: 5238
 Ion Ratio Lower Upper
 75 100
 155 88.6 38.0 114.0
 157 129.6 45.1 135.5

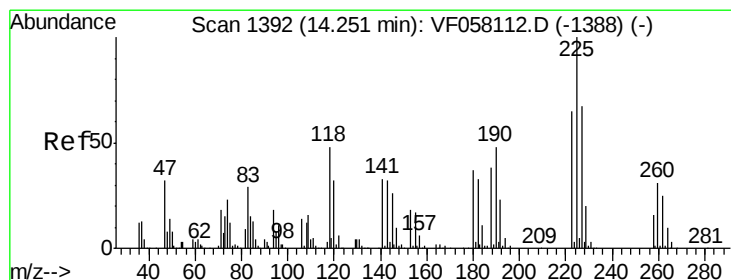
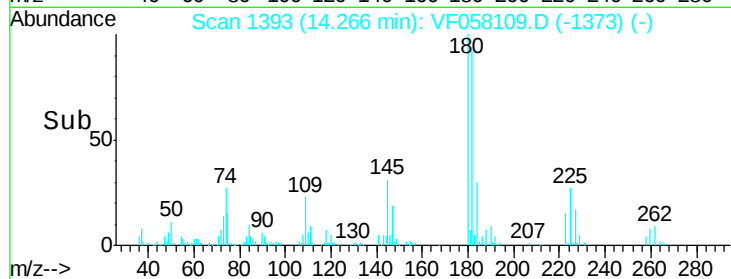
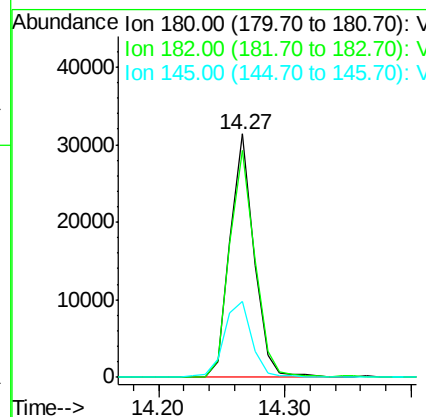
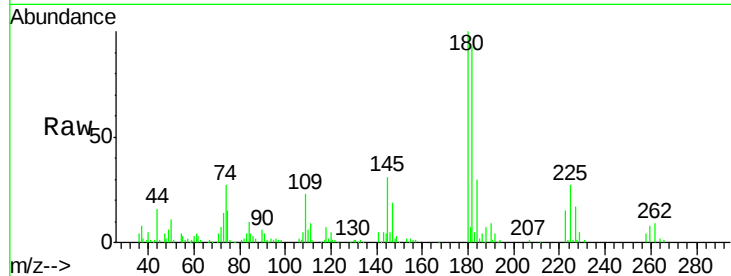




#93
 1,2,4-Trichlorobenzene
 Concen: 5.30 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

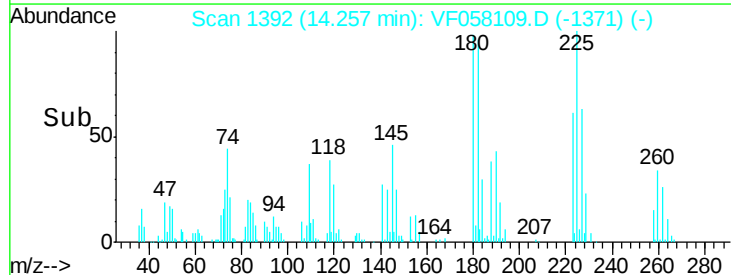
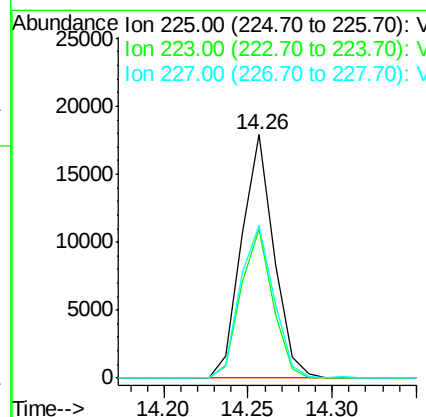
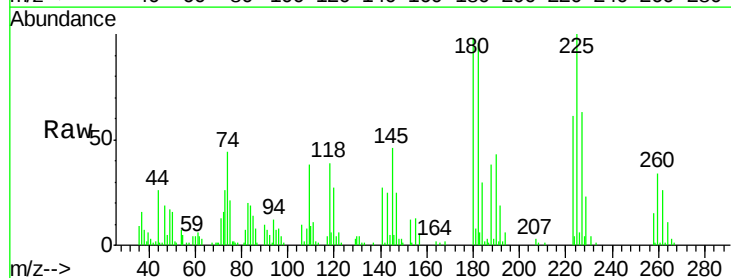
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

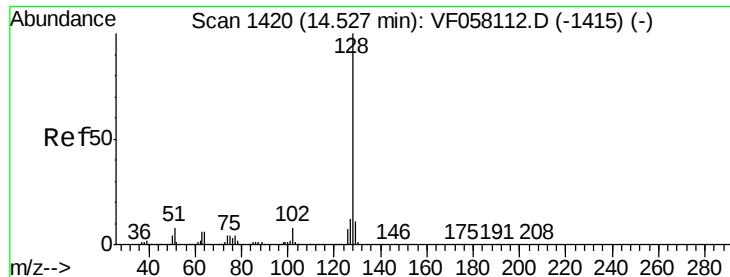
Tgt Ion:180 Resp: 41375
 Ion Ratio Lower Upper
 180 100
 182 93.1 49.3 147.9
 145 31.2 14.9 44.9



#94
 Hexachlorobutadiene
 Concen: 5.30 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VF058109.D
 Acq: 6 Jun 2018 16:17

Tgt Ion:225 Resp: 23859
 Ion Ratio Lower Upper
 225 100
 223 60.9 32.8 98.3
 227 62.8 33.3 99.9





#95

Naphthalene

Concen: 4.97 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

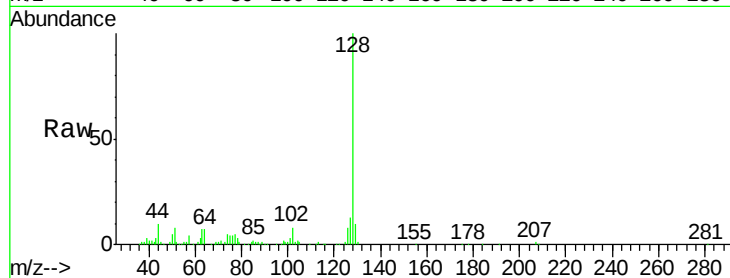
Tgt Ion:128 Resp: 82743

Ion Ratio Lower Upper

128 100

127 13.1 9.9 14.9

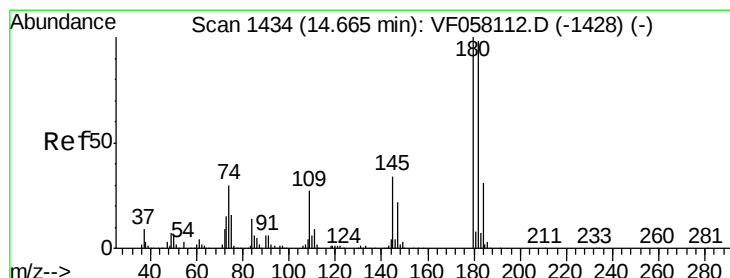
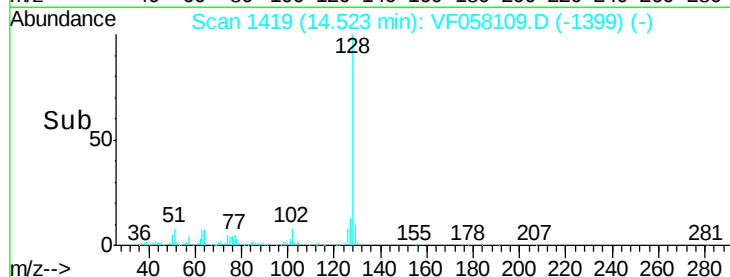
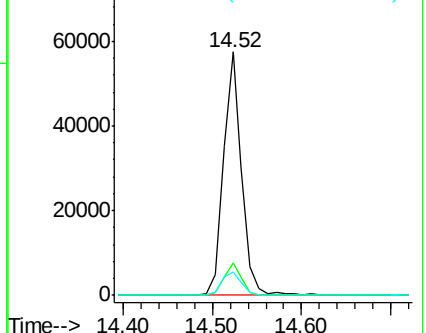
129 9.5 8.7 13.1



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: 4.92 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VF058109.D

Acq: 6 Jun 2018 16:17

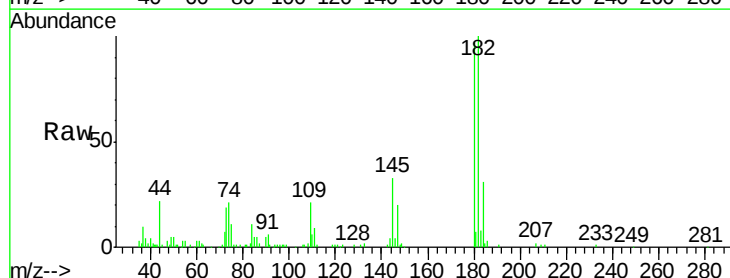
Tgt Ion:180 Resp: 36180

Ion Ratio Lower Upper

180 100

182 103.2 48.9 146.6

145 33.7 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

