

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF060618\
 Data File : VF058111.D
 Acq On : 6 Jun 2018 17:13
 Operator : JC/SY
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Quant Time: Jun 07 05:58:01 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	347657	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	561785	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	546947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	317684	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	80545	18.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.28%	
35) Dibromofluoromethane	4.28	113	80299	19.27	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	38.54%	
50) Toluene-d8	7.71	98	225863	18.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.58%	
62) 4-Bromofluorobenzene	11.51	95	119331	19.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.98	85	82368	19.62	ug/l	100
3) Chloromethane	1.08	50	58784	17.67	ug/l	97
4) Vinyl Chloride	1.15	62	53432	19.24	ug/l	# 85
5) Bromomethane	1.34	94	30091	19.14	ug/l	90
6) Chloroethane	1.43	64	22454	18.98	ug/l	96
7) Trichlorofluoromethane	1.49	101	34339	8.14	ug/l	97
8) Diethyl Ether	1.70	74	20226	19.69	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	1.90	101	53197	20.46	ug/l	97
10) Methyl Iodide	1.96	142	94656	20.48	ug/l	98
11) Tert butyl alcohol	2.69	59	25054	101.40	ug/l	97
12) 1,1-Dichloroethene	1.85	96	45545	20.13	ug/l	98
13) Acrolein	2.09	56	25921	161.28	ug/l	99
14) Allyl chloride	2.19	41	89268	20.64	ug/l	92
15) Acrylonitrile	3.07	53	52563	92.03	ug/l	95
16) Acetone	2.33	43	98075	103.66	ug/l	92
17) Carbon Disulfide	1.84	76	38479	5.93	ug/l	95
18) Methyl Acetate	2.45	43	31786	18.01	ug/l	94
19) Methyl tert-butyl Ether	2.54	73	142838	20.16	ug/l	96
20) Methylene Chloride	2.27	84	29086	12.56	ug/l	# 92
21) trans-1,2-Dichloroethene	2.41	96	50263	20.58	ug/l	93
22) Diisopropyl ether	2.92	45	176657	20.87	ug/l	95
23) Vinyl Acetate	3.33	43	623136	100.45	ug/l	99
24) 1,1-Dichloroethane	3.00	63	110264	21.03	ug/l	99
25) 2-Butanone	4.51	43	154046	100.37	ug/l	99
26) 2,2-Dichloropropane	3.76	77	79361	21.41	ug/l	93
27) cis-1,2-Dichloroethene	3.63	96	80764	19.89	ug/l	97
28) Bromochloromethane	3.89	49	53712	23.18	ug/l	88
29) Tetrahydrofuran	4.26	42	70956	100.16	ug/l	98
30) Chloroform	4.03	83	157568	20.03	ug/l	97
31) Cyclohexane	3.86	56	91502	18.54	ug/l	95
32) 1,1,1-Trichloroethane	4.27	97	119816	21.46	ug/l	91
36) 1,1-Dichloropropene	4.45	75	105942	18.65	ug/l	97
37) Ethyl Acetate	4.29	43	72807	21.73	ug/l	# 81
38) Carbon Tetrachloride	4.17	117	136608	22.63	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	108377	18.46	ug/l	98
40) Benzene	4.81	78	254202	19.11	ug/l	94
41) Methacrylonitrile	4.92	41	32732	19.29	ug/l #	89
42) 1,2-Dichloroethane	5.11	62	115600	20.24	ug/l	97
43) Isopropyl Acetate	7.11	43	84828	18.68	ug/l #	96
44) Trichloroethene	5.67	130	79067	19.08	ug/l	93
45) 1,2-Dichloropropane	6.40	63	75043	19.41	ug/l	96
46) Dibromomethane	6.26	93	54458	18.66	ug/l	91
47) Bromodichloromethane	6.55	83	126143	19.59	ug/l	97
48) Methyl methacrylate	6.87	41	54431	18.96	ug/l	97
49) 1,4-Dioxane	6.87	88	8123	410.02	ug/l	96
51) 4-Methyl-2-Pentanone	8.41	43	313668	99.48	ug/l	100
52) Toluene	7.77	92	183221	19.40	ug/l	97
53) t-1,3-Dichloropropene	8.42	75	122057	19.84	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	146640	20.74	ug/l	100
55) 1,1,2-Trichloroethane	8.64	97	68990	20.09	ug/l	98
56) Ethyl methacrylate	8.76	69	82562	19.01	ug/l	97
57) 1,3-Dichloropropane	9.00	76	117755	19.70	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.77	63	30062	100.13	ug/l	100
59) 2-Hexanone	9.63	43	242750	98.32	ug/l	97
60) Dibromochloromethane	8.86	129	96683	19.80	ug/l	96
61) 1,2-Dibromoethane	9.13	107	77849	19.00	ug/l	97
64) Tetrachloroethene	8.31	164	77705	18.82	ug/l	87
65) Chlorobenzene	9.94	112	223163	20.14	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	90749	20.95	ug/l	96
67) Ethyl Benzene	10.04	91	393524	20.20	ug/l	98
68) m/p-Xylenes	10.27	106	303826	42.07	ug/l	97
69) o-Xylene	10.83	106	159797	20.32	ug/l	97
70) Styrene	10.90	104	239908	20.34	ug/l	99
71) Bromoform	10.89	173	59397	19.94	ug/l #	94
73) Isopropylbenzene	11.22	105	463058	20.53	ug/l	96
74) N-amyl acetate	11.46	43	165990	19.73	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.79	83	107622	19.91	ug/l	99
76) 1,2,3-Trichloropropane	11.88	75	78631	19.94	ug/l	96
77) Bromobenzene	11.59	156	114485	20.36	ug/l	99
78) n-propylbenzene	11.69	91	543490	20.16	ug/l	96
79) 2-Chlorotoluene	11.82	91	321549	20.19	ug/l	97
80) 1,3,5-Trimethylbenzene	11.91	105	380897	20.37	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	50292	20.14	ug/l	98
82) 4-Chlorotoluene	11.99	91	342123	20.37	ug/l	99
83) tert-Butylbenzene	12.21	119	390627	20.88	ug/l	98
84) 1,2,4-Trimethylbenzene	12.29	105	391994	20.20	ug/l	96
85) sec-Butylbenzene	12.39	105	508811	20.08	ug/l	99
86) p-Isopropyltoluene	12.54	119	432730	20.49	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	213428	20.59	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	206117	20.71	ug/l	97
89) n-Butylbenzene	12.92	91	467807	21.25	ug/l	95
90) Hexachloroethane	12.99	117	105478	20.71	ug/l	96
91) 1,2-Dichlorobenzene	13.02	146	204396	20.32	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.72	75	20861	20.24	ug/l	65

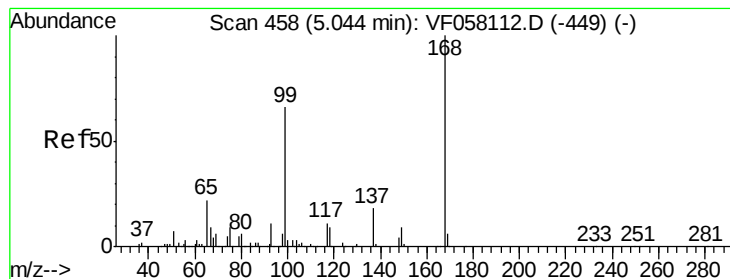
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	144372	20.46	ug/l	99
94) Hexachlorobutadiene	14.25	225	81317	19.96	ug/l	97
95) Naphthalene	14.53	128	299201	19.86	ug/l	100
96) 1,2,3-Trichlorobenzene	14.66	180	134317	20.20	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

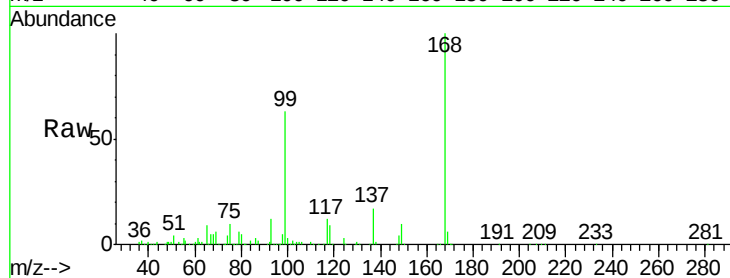
VSTDIC020

Tgt Ion:168 Resp: 347657

Ion Ratio Lower Upper

168 100

99 62.7 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

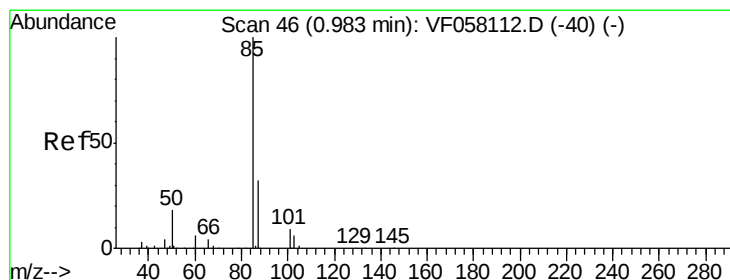
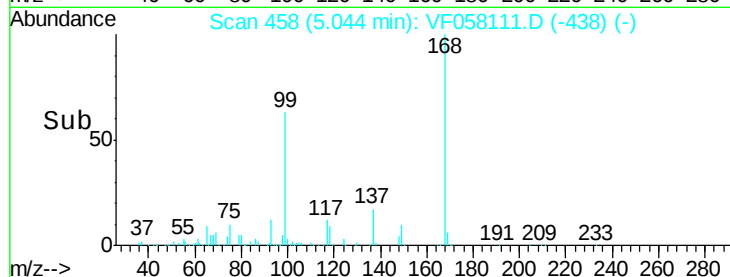
5.04

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.62 ug/l

RT: 0.98 min Scan# 46

Delta R.T. -0.00 min

Lab File: VF058111.D

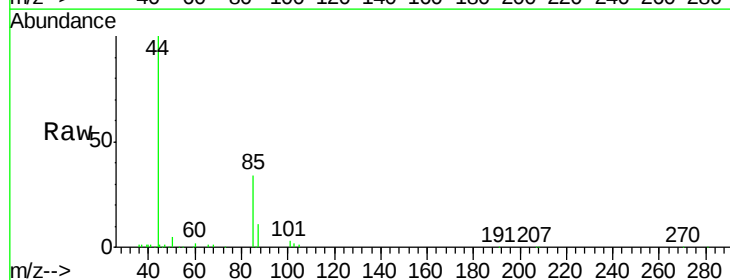
Acq: 6 Jun 2018 17:13

Tgt Ion: 85 Resp: 82368

Ion Ratio Lower Upper

85 100

87 32.5 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

25000

20000

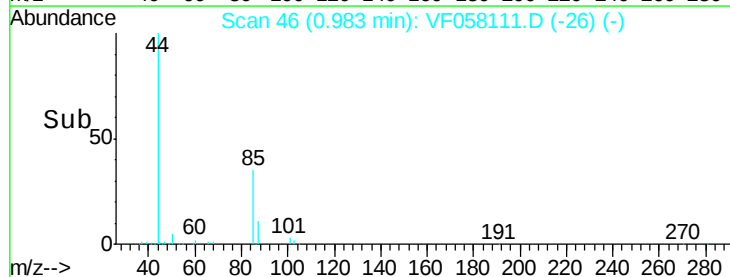
15000

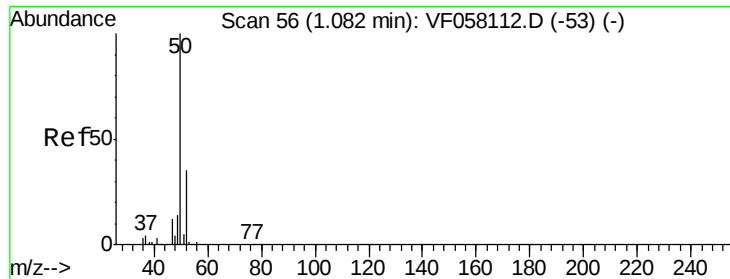
10000

5000

0

Time-->





#3

Chloromethane

Concen: 17.67 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

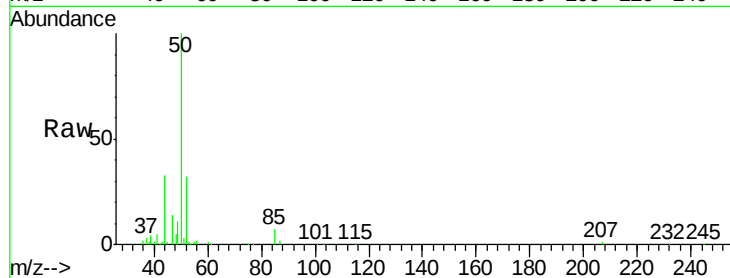
VSTDIC020

Tgt Ion: 50 Resp: 58784

Ion Ratio Lower Upper

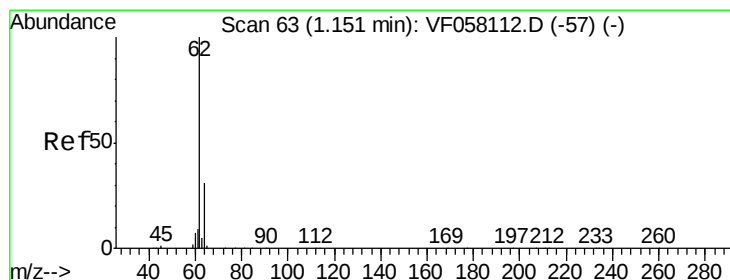
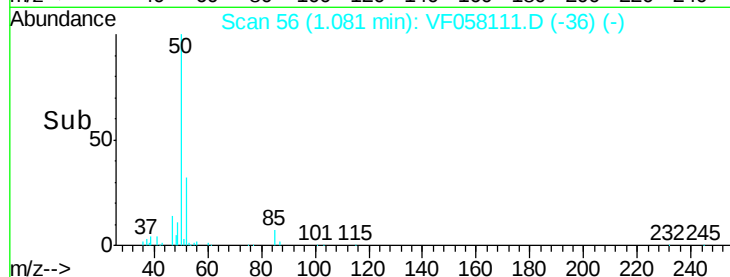
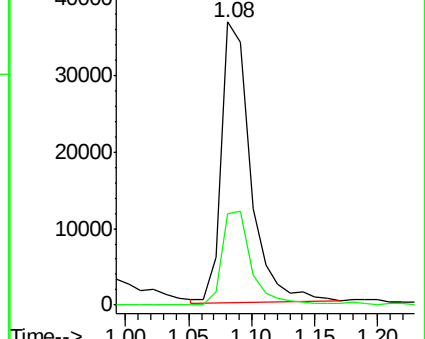
50 100

52 32.4 27.3 40.9



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 19.24 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.00 min

Lab File: VF058111.D

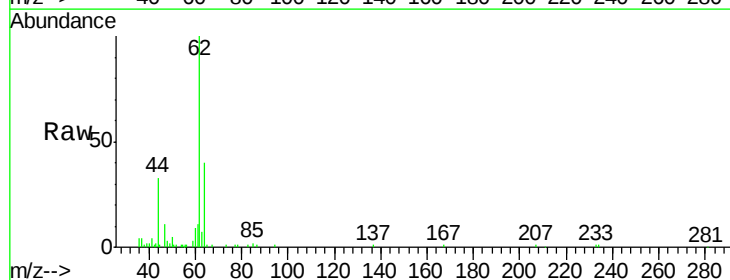
Acq: 6 Jun 2018 17:13

Tgt Ion: 62 Resp: 53432

Ion Ratio Lower Upper

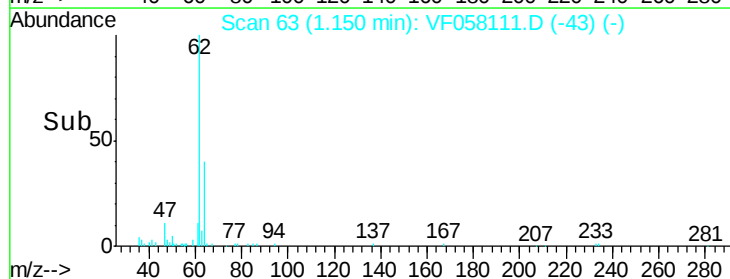
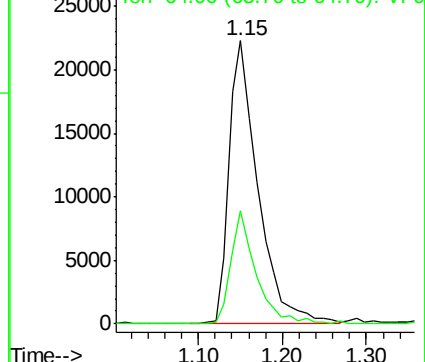
62 100

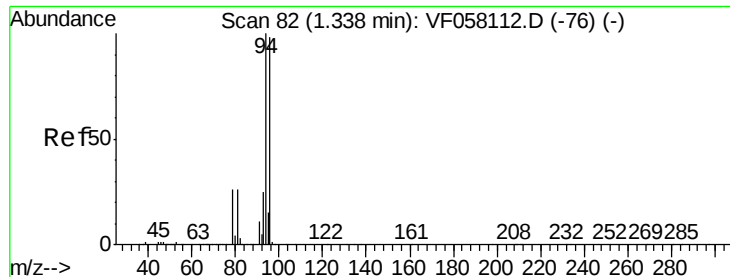
64 39.8 25.0 37.6#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 19.14 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

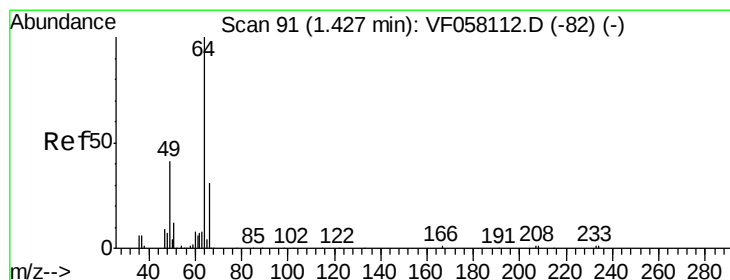
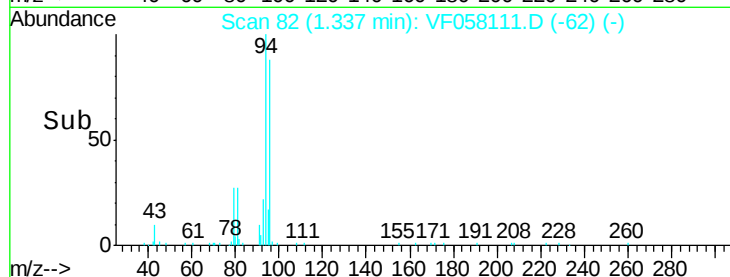
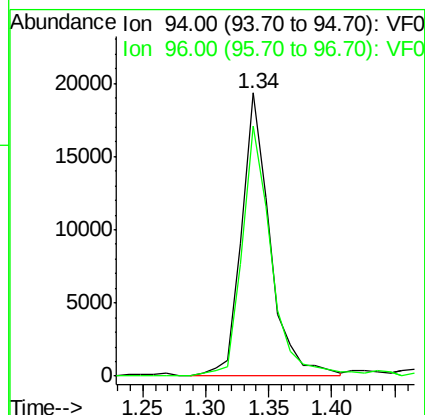
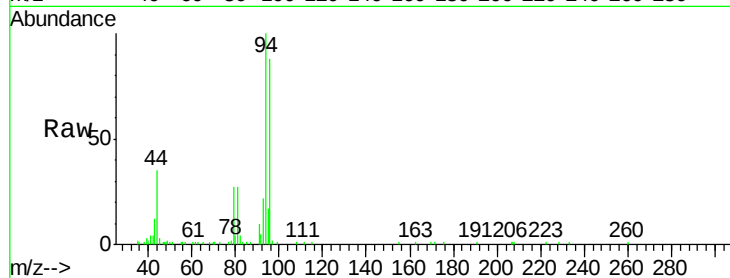
VSTDIC020

Tgt Ion: 94 Resp: 30091

Ion Ratio Lower Upper

94 100

96 88.2 78.6 117.8



#6

Chloroethane

Concen: 18.98 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.00 min

Lab File: VF058111.D

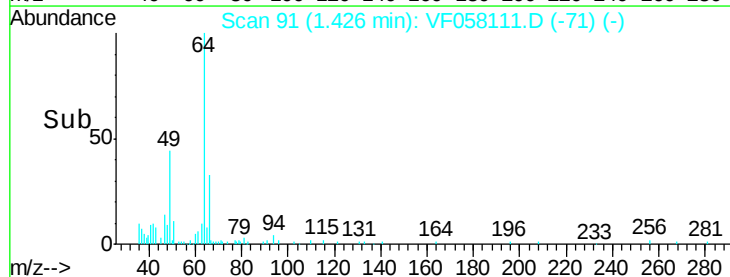
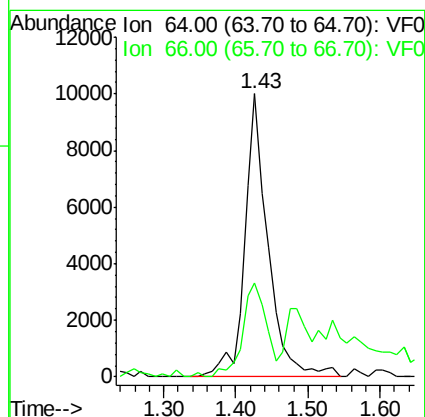
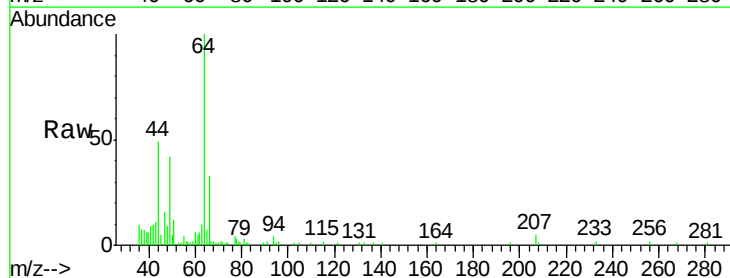
Acq: 6 Jun 2018 17:13

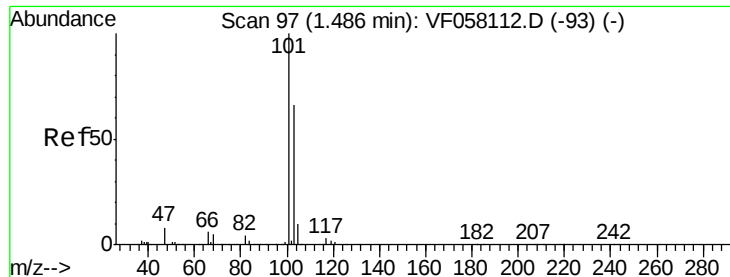
Tgt Ion: 64 Resp: 22454

Ion Ratio Lower Upper

64 100

66 33.1 24.9 37.3





#7

Trichlorofluoromethane

Concen: 8.14 ug/l

RT: 1.49 min Scan# 97

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

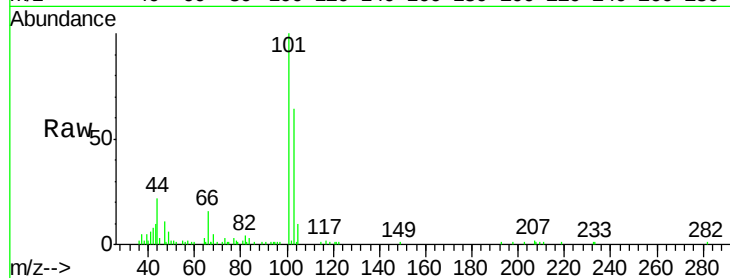
VSTDIC020

Tgt Ion:101 Resp: 34339

Ion Ratio Lower Upper

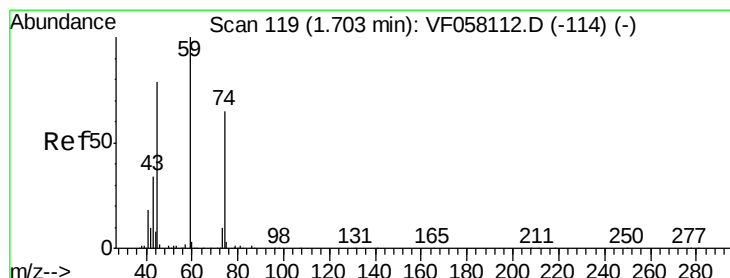
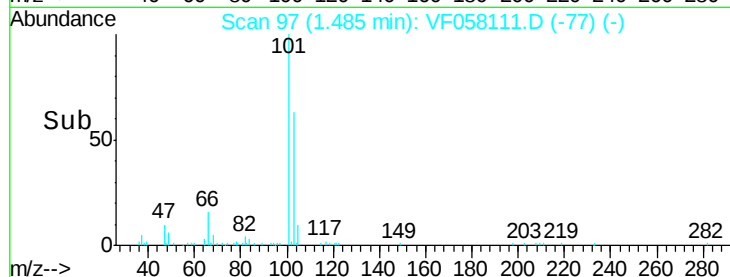
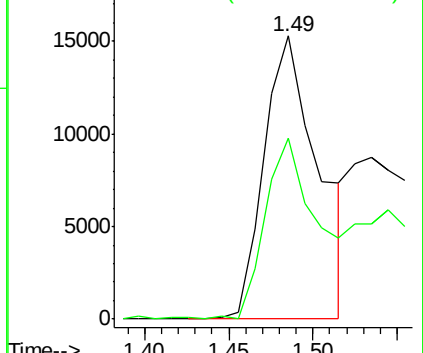
101 100

103 64.1 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: 19.69 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF058111.D

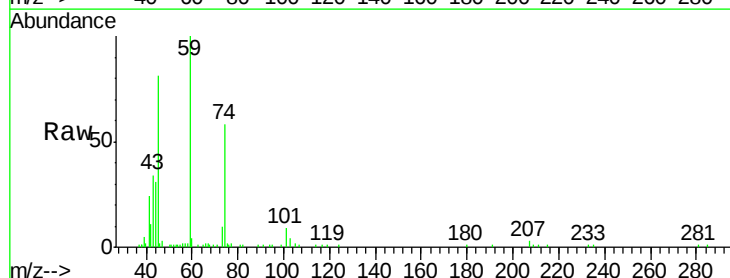
Acq: 6 Jun 2018 17:13

Tgt Ion: 74 Resp: 20226

Ion Ratio Lower Upper

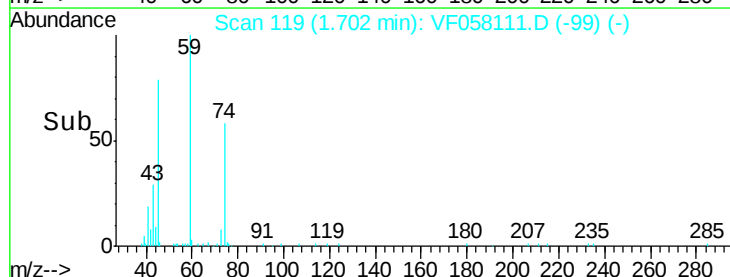
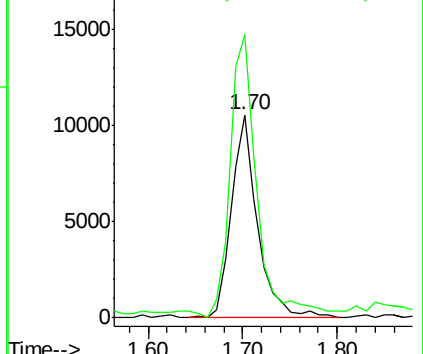
74 100

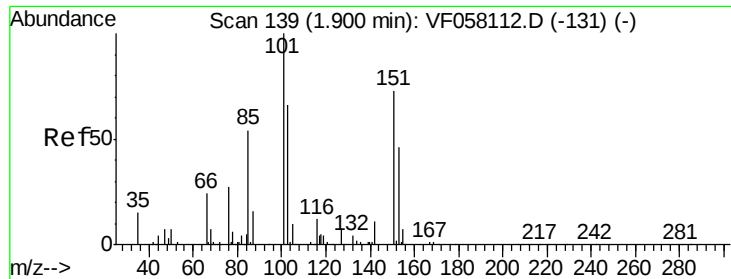
45 139.2 61.5 184.4



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: 20.46 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

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ClientSampleId :

VSTDIC020

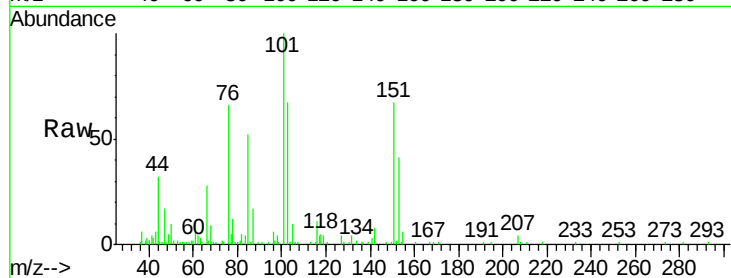
Tgt Ion:101 Resp: 53197

Ion Ratio Lower Upper

101 100

85 52.5 42.2 63.4

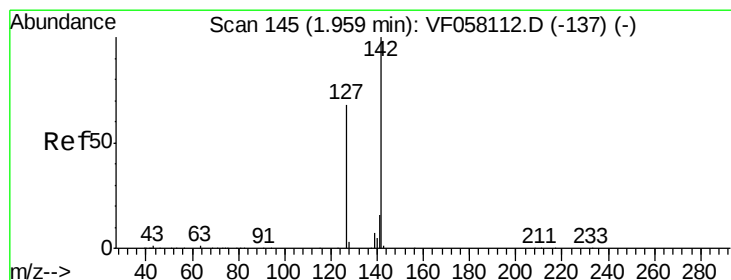
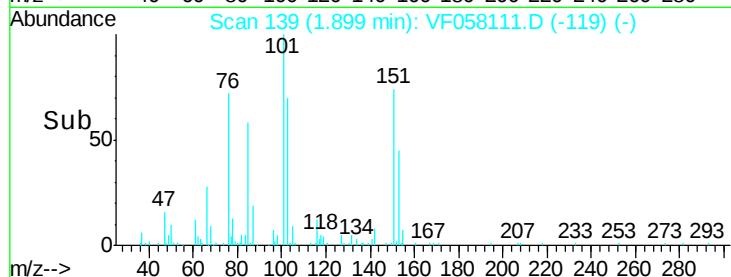
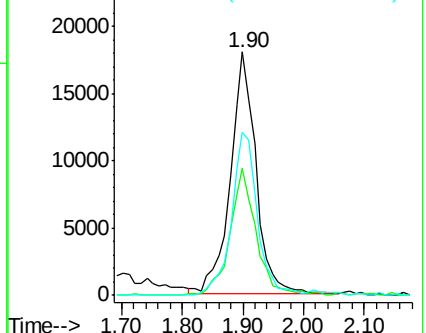
151 67.0 56.8 85.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 20.48 ug/l

RT: 1.96 min Scan# 145

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

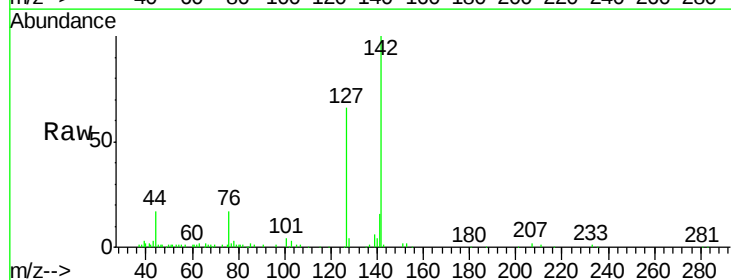
Tgt Ion:142 Resp: 94656

Ion Ratio Lower Upper

142 100

127 65.8 54.1 81.1

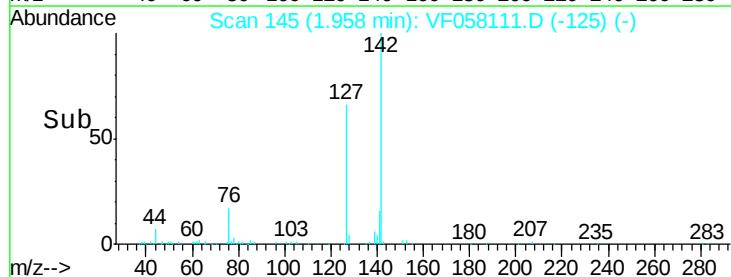
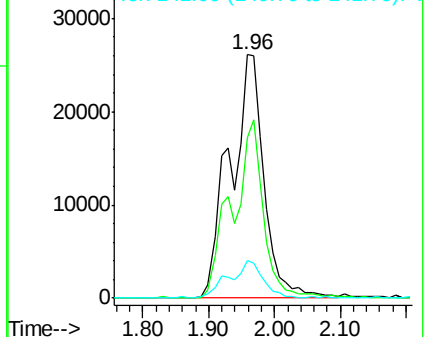
141 15.5 13.0 19.4

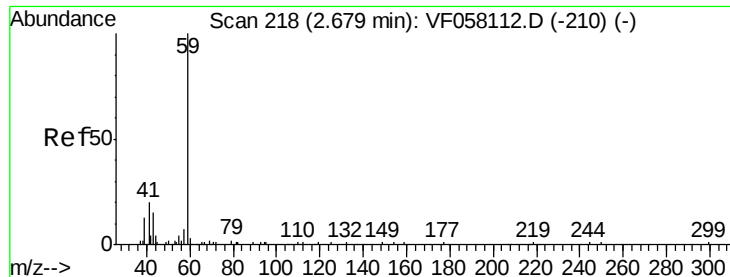


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



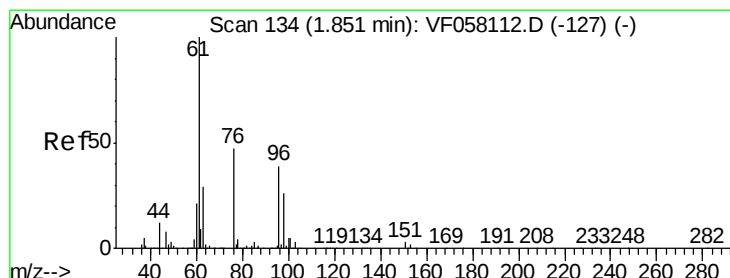
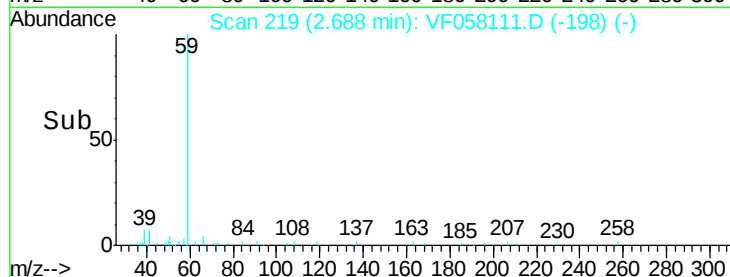
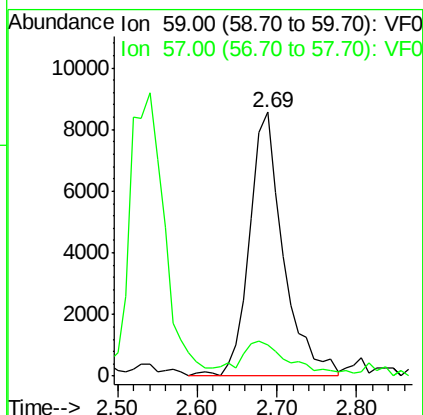
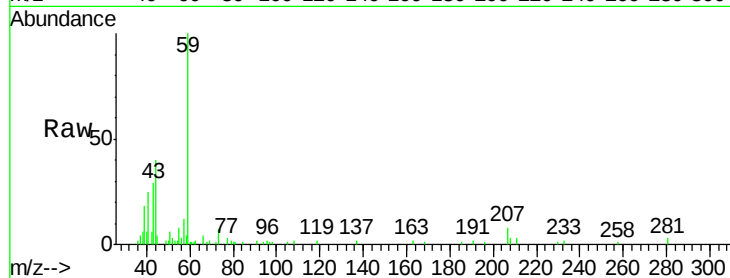


#11

Tert butyl alcohol
Concen: 101.40 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

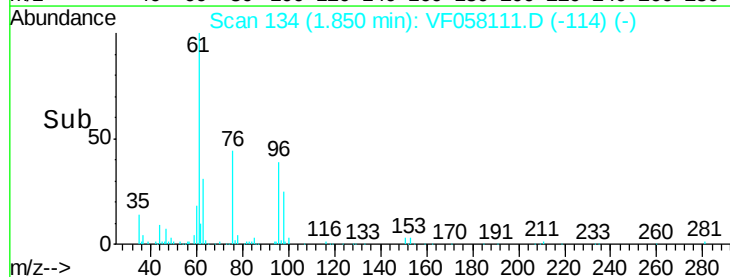
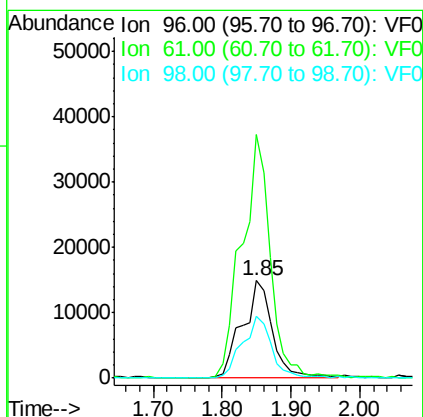
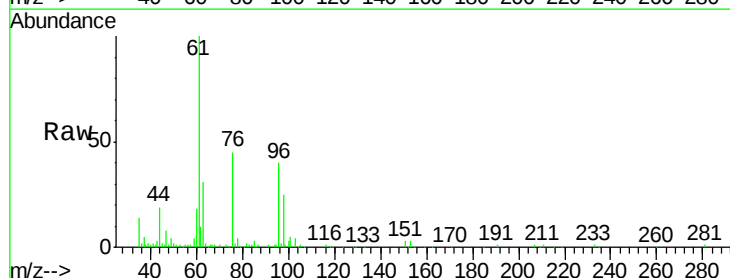
Tgt Ion: 59 Resp: 25054
Ion Ratio Lower Upper
59 100
57 11.9 8.7 13.1

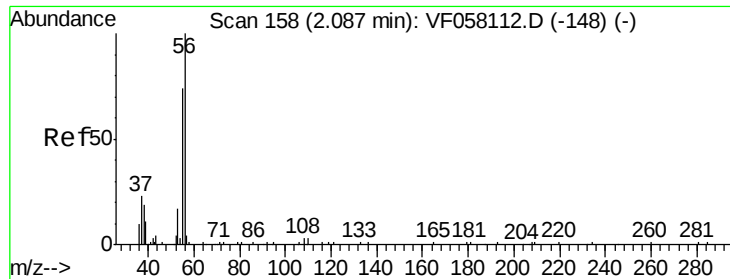


#12

1,1-Dichloroethene
Concen: 20.13 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Tgt Ion: 96 Resp: 45545
Ion Ratio Lower Upper
96 100
61 250.3 203.0 304.4
98 65.6 52.7 79.1





#13

Acrolein

Concen: 161.28 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

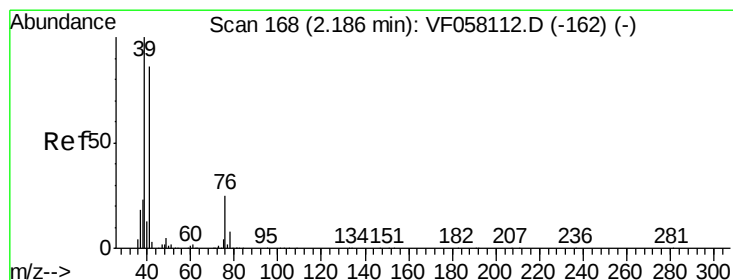
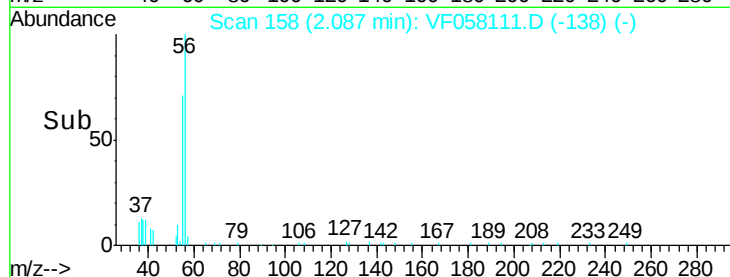
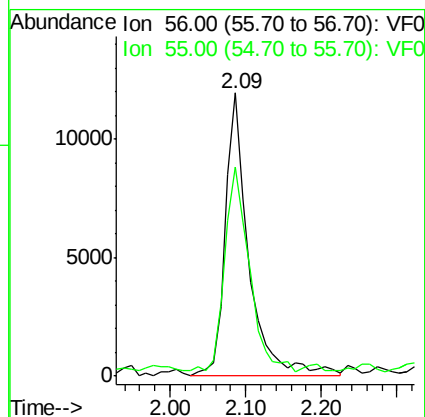
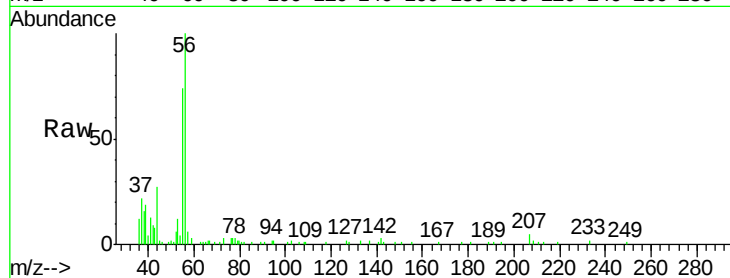
VSTDIC020

Tgt Ion: 56 Resp: 25921

Ion Ratio Lower Upper

56 100

55 74.0 60.0 90.0



#14

Allyl chloride

Concen: 20.64 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

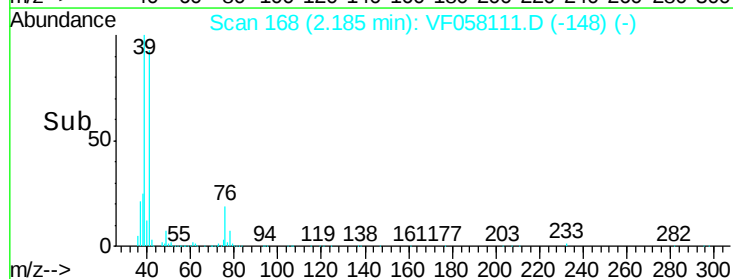
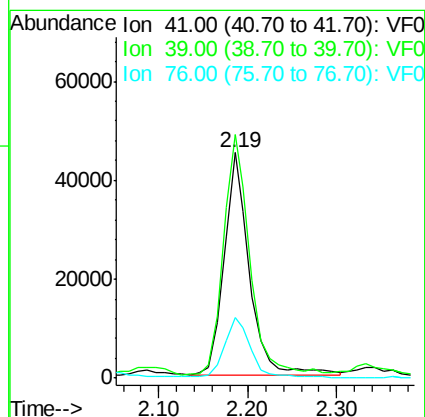
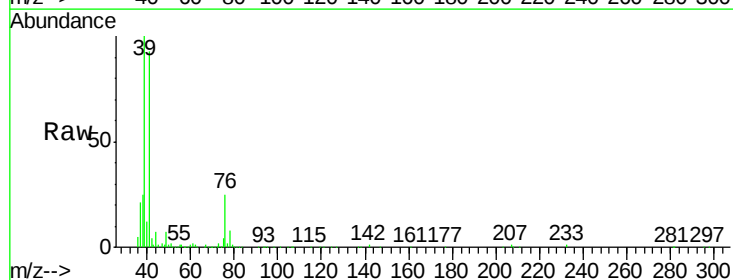
Tgt Ion: 41 Resp: 89268

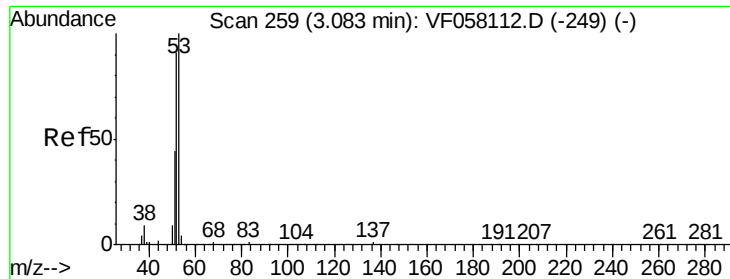
Ion Ratio Lower Upper

41 100

39 107.9 93.5 140.3

76 26.6 23.9 35.9





#15

Acrylonitrile

Concen: 92.03 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

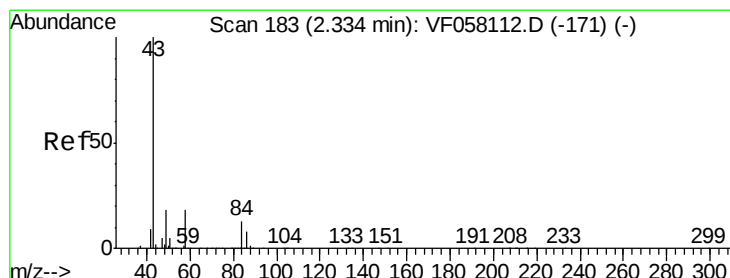
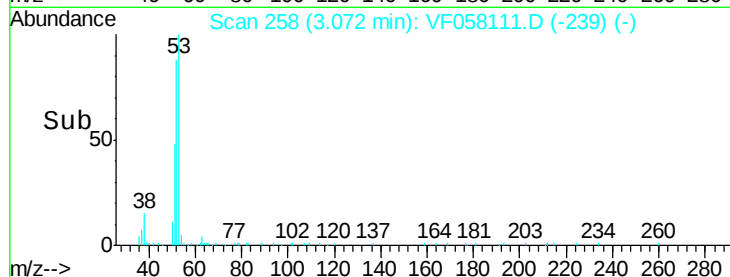
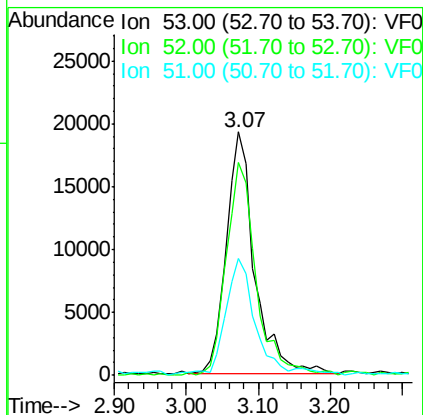
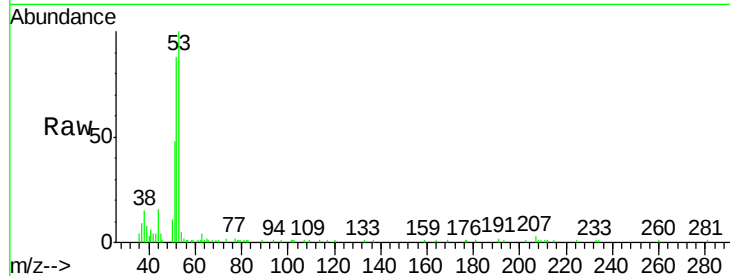
Tgt Ion: 53 Resp: 52563

Ion Ratio Lower Upper

53 100

52 87.7 73.2 109.8

51 48.3 35.6 53.4



#16

Acetone

Concen: 103.66 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF058111.D

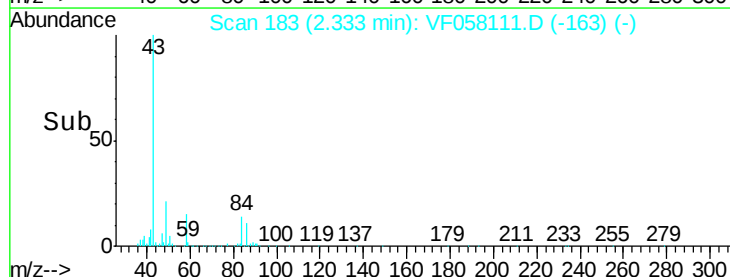
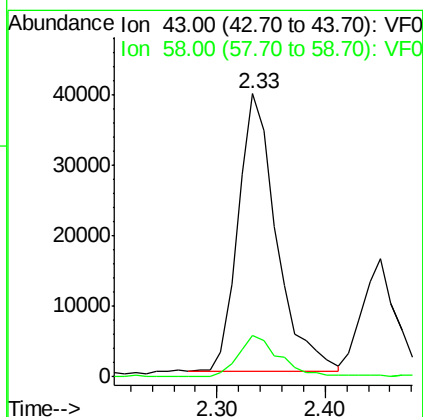
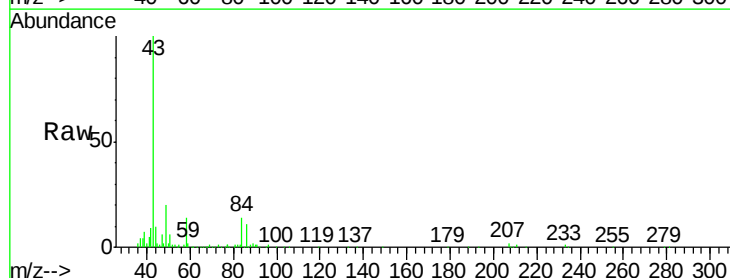
Acq: 6 Jun 2018 17:13

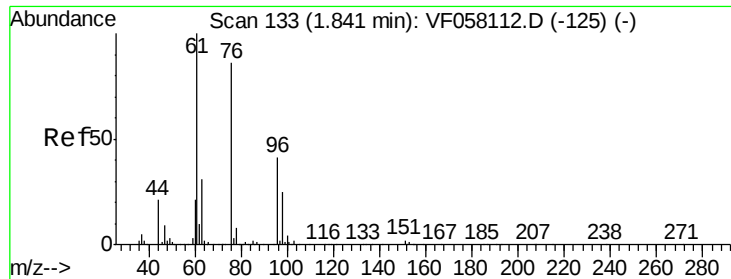
Tgt Ion: 43 Resp: 98075

Ion Ratio Lower Upper

43 100

58 14.4 14.4 21.6





#17

Carbon Disulfide

Concen: 5.93 ug/l

RT: 1.84 min Scan# 133

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

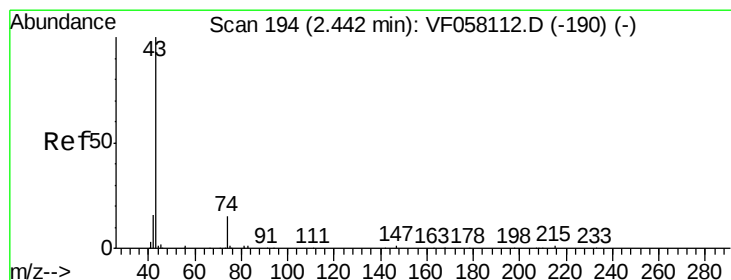
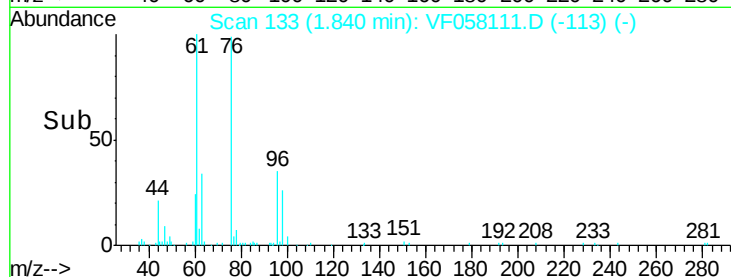
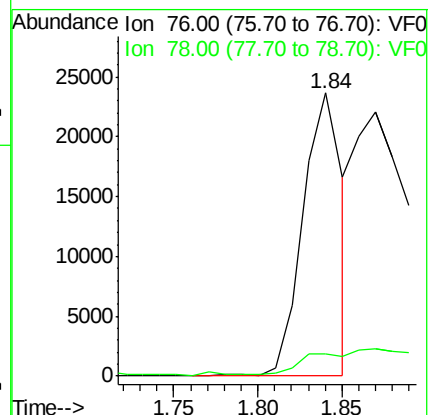
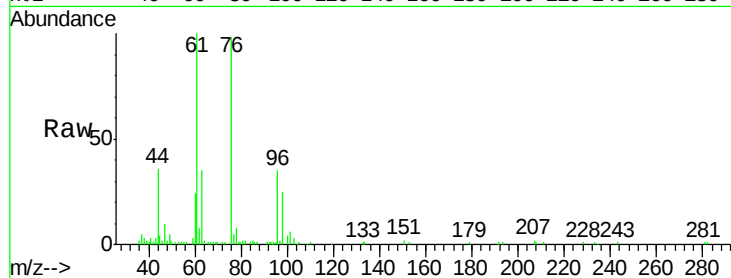
VSTDIC020

Tgt Ion: 76 Resp: 38479

Ion Ratio Lower Upper

76 100

78 7.9 7.8 11.8



#18

Methyl Acetate

Concen: 18.01 ug/l

RT: 2.45 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF058111.D

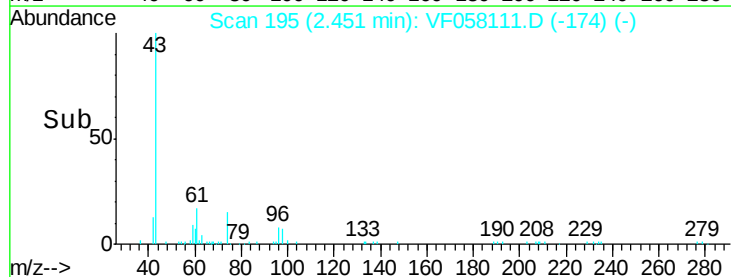
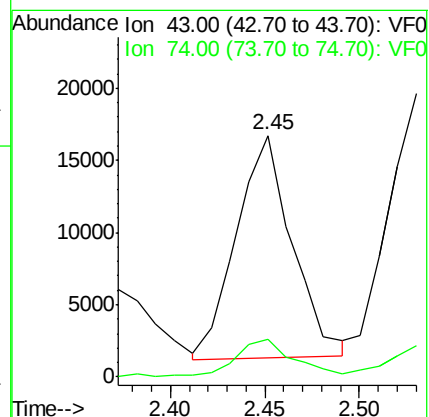
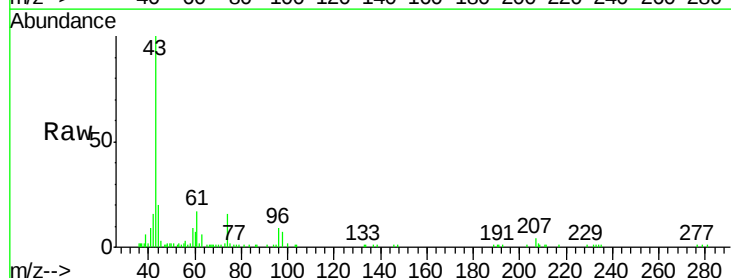
Acq: 6 Jun 2018 17:13

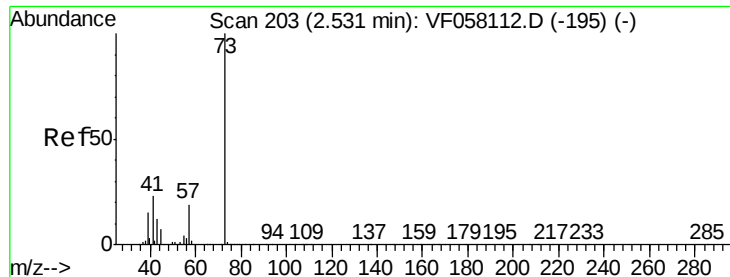
Tgt Ion: 43 Resp: 31786

Ion Ratio Lower Upper

43 100

74 15.8 10.9 16.3





#19

Methyl tert-butyl Ether

Concen: 20.16 ug/l

RT: 2.54 min Scan# 204

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

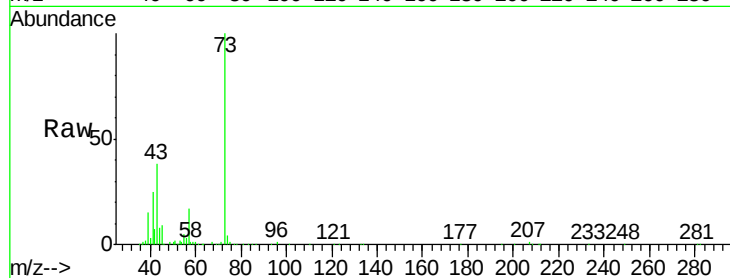
VSTDIC020

Tgt Ion: 73 Resp: 142838

Ion Ratio Lower Upper

73 100

57 16.8 15.0 22.4



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.54

60000

50000

40000

30000

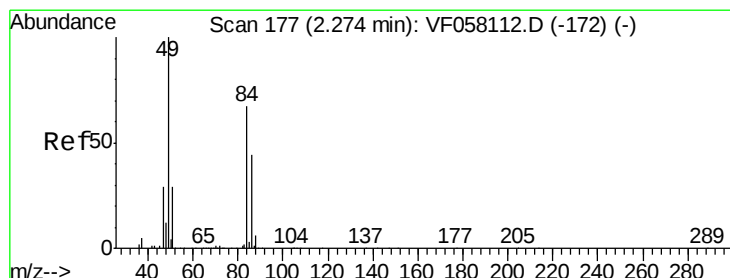
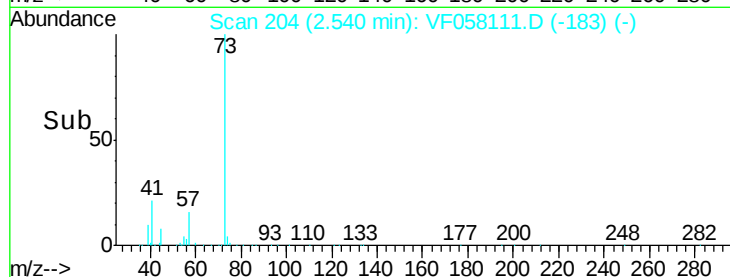
20000

10000

0

Time-->

2.40 2.50 2.60 2.70



#20

Methylene Chloride

Concen: 12.56 ug/l

RT: 2.27 min Scan# 177

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Tgt Ion: 84 Resp: 29086

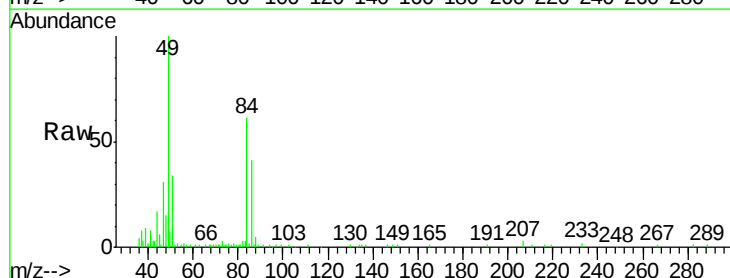
Ion Ratio Lower Upper

84 100

49 163.0 121.0 181.4

51 55.6 35.8 53.6#

86 67.3 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

30000

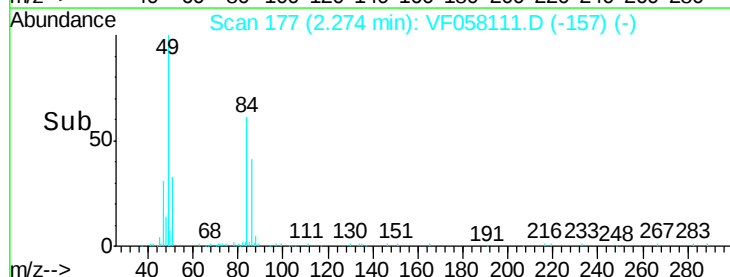
20000

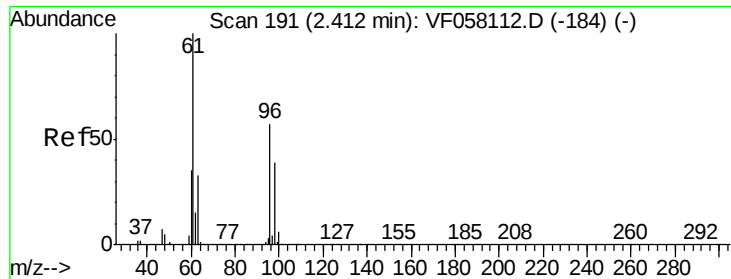
10000

0

Time-->

2.20 2.25 2.30





#21

trans-1,2-Dichloroethene

Concen: 20.58 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

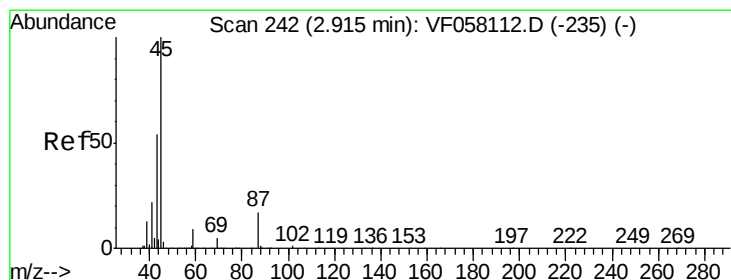
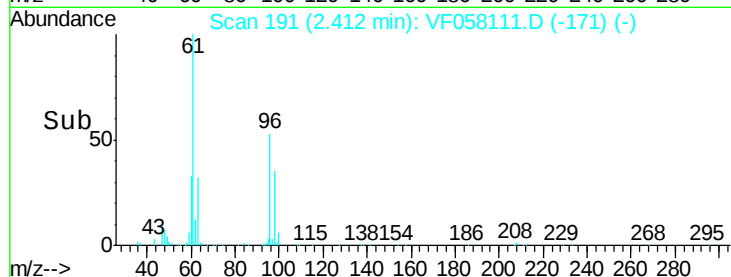
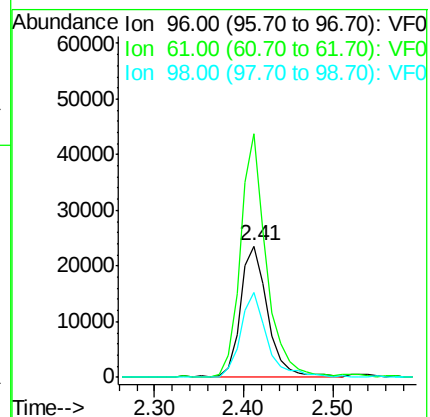
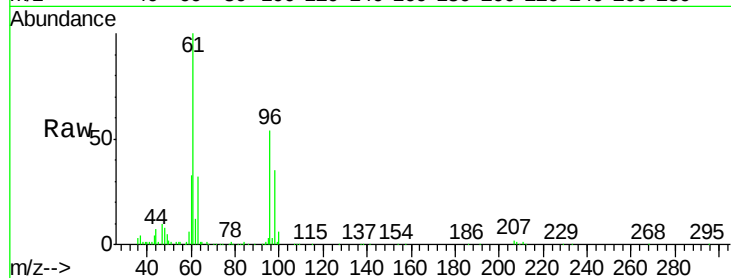
Tgt Ion: 96 Resp: 50263

Ion Ratio Lower Upper

96 100

61 185.9 139.4 209.2

98 64.6 54.0 81.0



#22

Diisopropyl ether

Concen: 20.87 ug/l

RT: 2.92 min Scan# 243

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Tgt Ion: 45 Resp: 176657

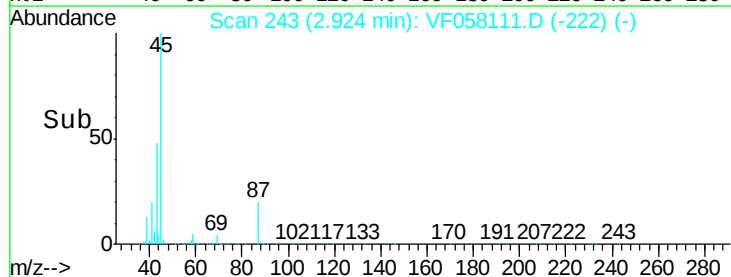
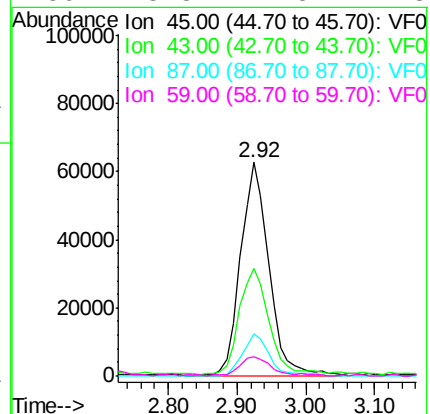
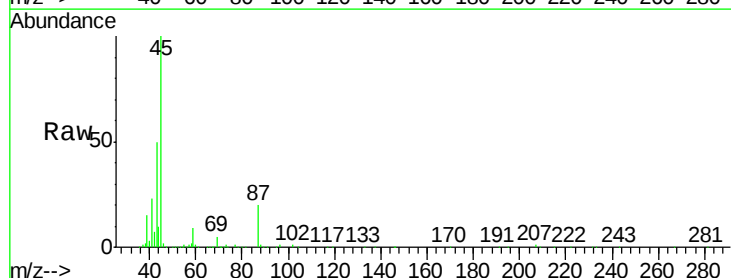
Ion Ratio Lower Upper

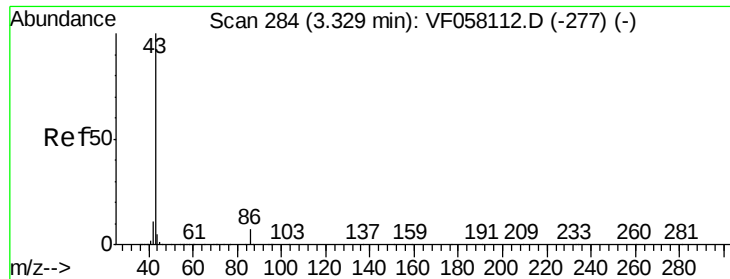
45 100

43 50.1 43.2 64.8

87 20.1 13.8 20.6

59 8.8 7.5 11.3





#23

Vinyl Acetate

Concen: 100.45 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

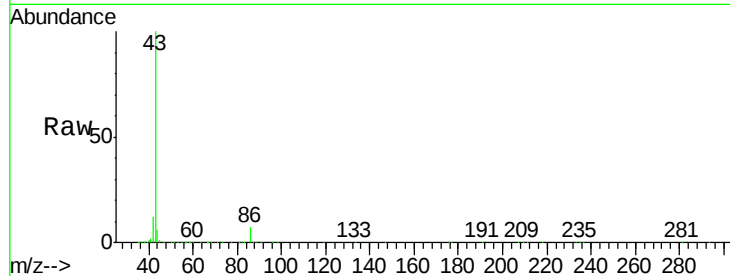
VSTDIC020

Tgt Ion: 43 Resp: 623136

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

250000

200000

150000

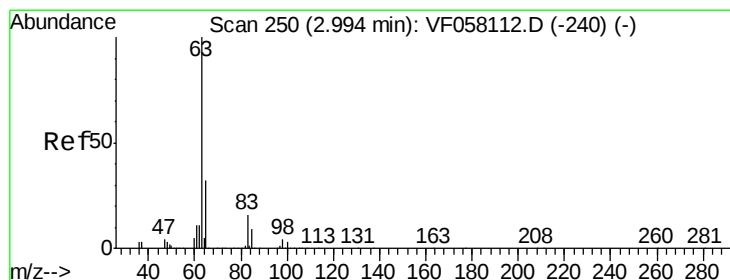
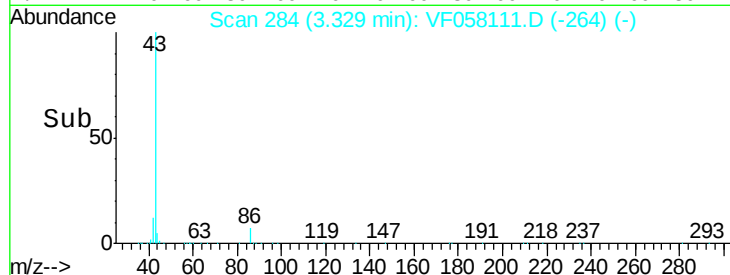
100000

50000

0

3.20 3.30 3.40 3.50

Time-->



#24

1,1-Dichloroethane

Concen: 21.03 ug/l

RT: 3.00 min Scan# 251

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

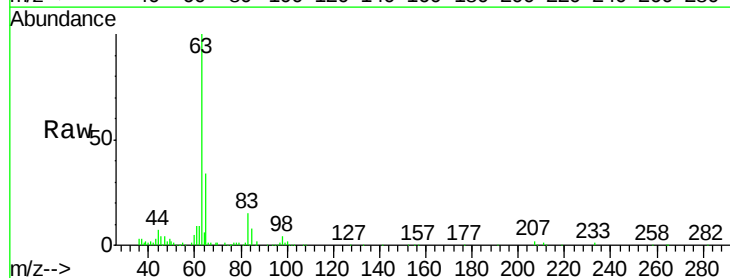
Tgt Ion: 63 Resp: 110264

Ion Ratio Lower Upper

63 100

98 3.9 2.0 6.0

100 2.3 1.4 4.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

50000

40000

30000

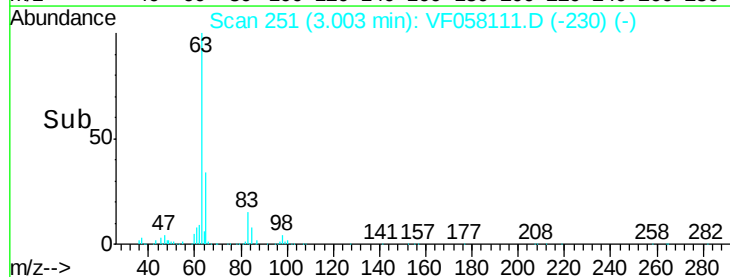
20000

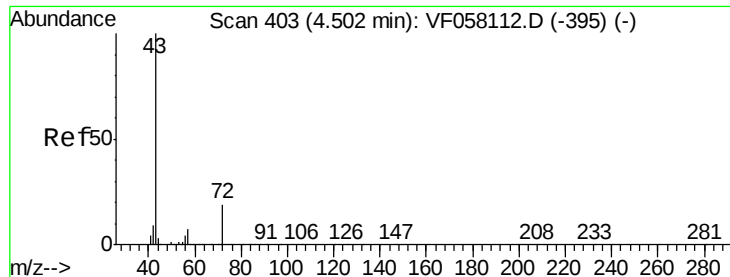
10000

0

2.90 3.00 3.10 3.20

Time-->





#25

2-Butanone

Concen: 100.37 ug/l

RT: 4.51 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

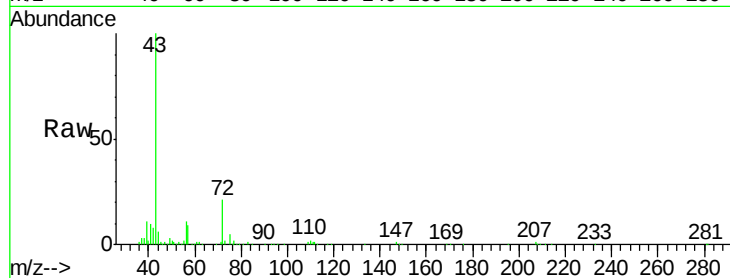
VSTDIC020

Tgt Ion: 43 Resp: 154046

Ion Ratio Lower Upper

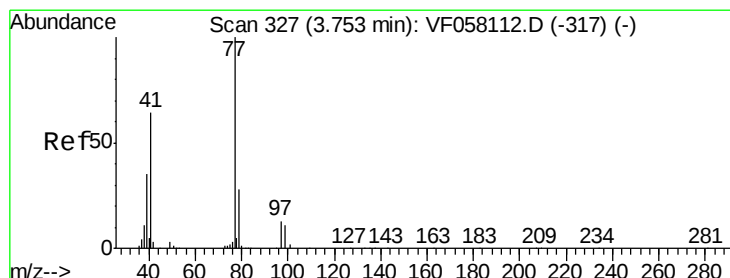
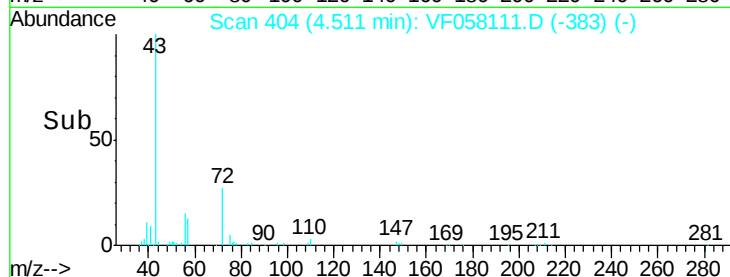
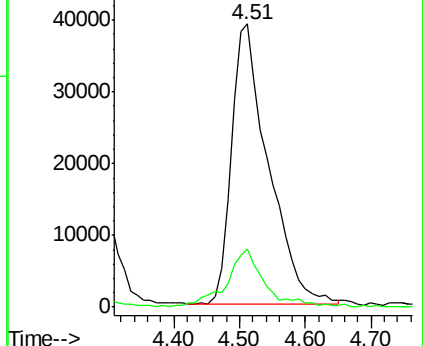
43 100

72 20.5 16.1 24.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 21.41 ug/l

RT: 3.76 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF058111.D

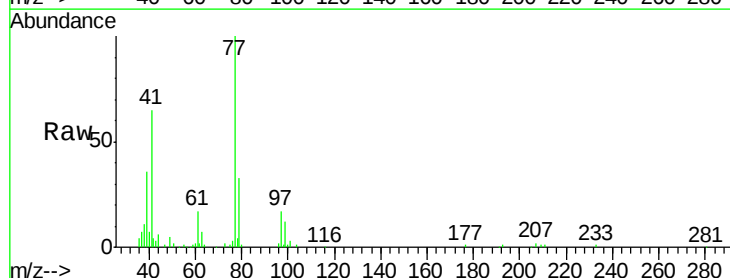
Acq: 6 Jun 2018 17:13

Tgt Ion: 77 Resp: 79361

Ion Ratio Lower Upper

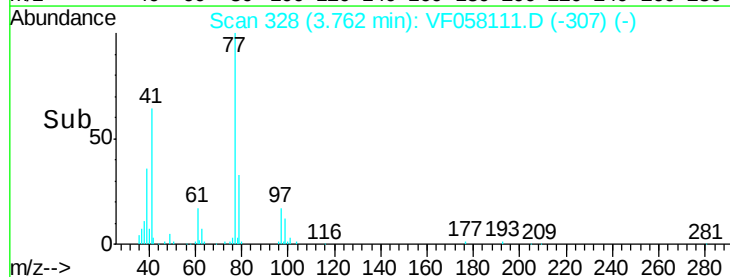
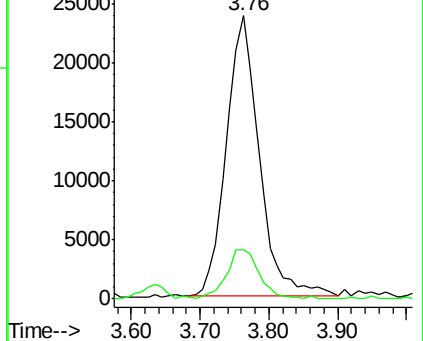
77 100

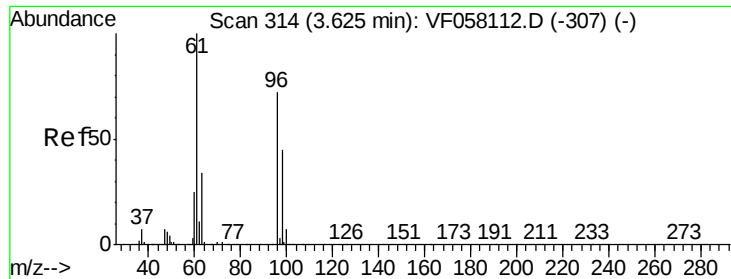
97 17.2 7.2 21.6



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



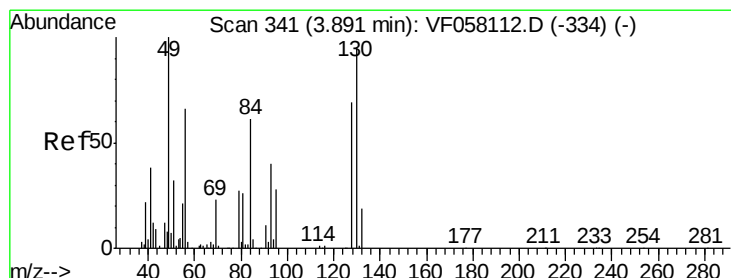
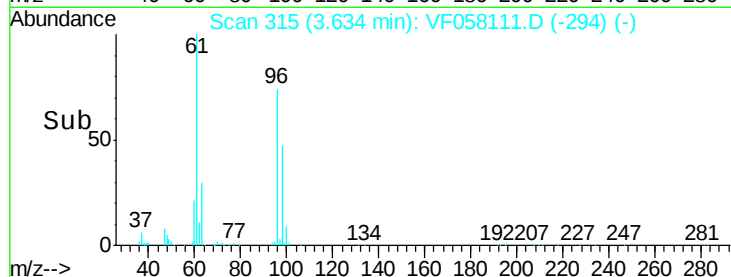
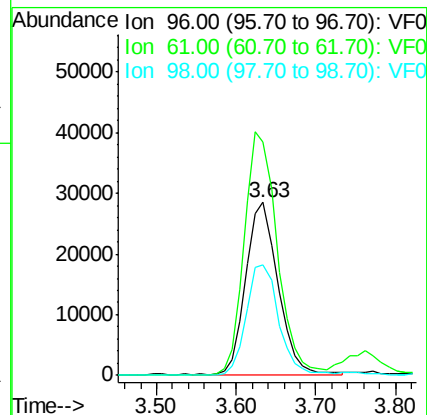
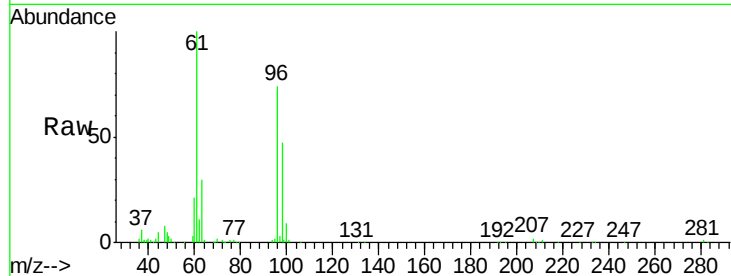


#27

cis-1,2-Dichloroethene
Concen: 19.89 ug/l
RT: 3.63 min Scan# 315
Delta R.T. 0.01 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

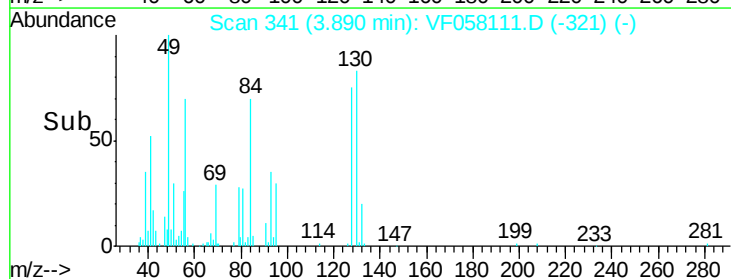
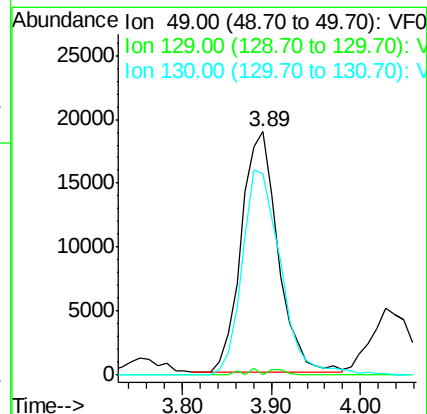
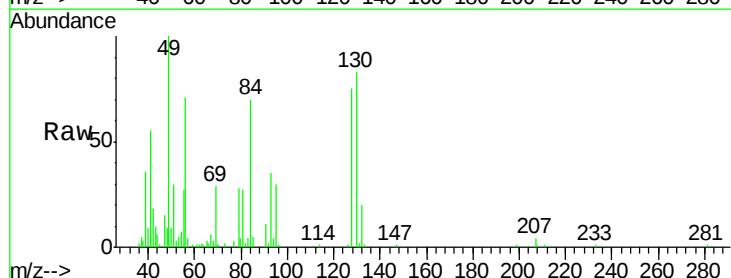
Tgt Ion: 96 Resp: 80764
Ion Ratio Lower Upper
96 100
61 135.0 0.0 278.6
98 63.5 0.0 125.2

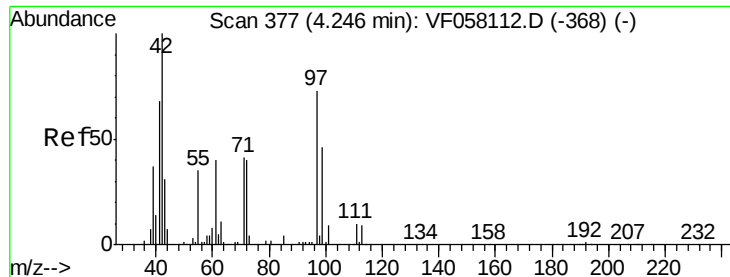


#28

Bromochloromethane
Concen: 23.18 ug/l
RT: 3.89 min Scan# 341
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Tgt Ion: 49 Resp: 53712
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 82.8 75.8 113.8





#29

Tetrahydrofuran

Concen: 100.16 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

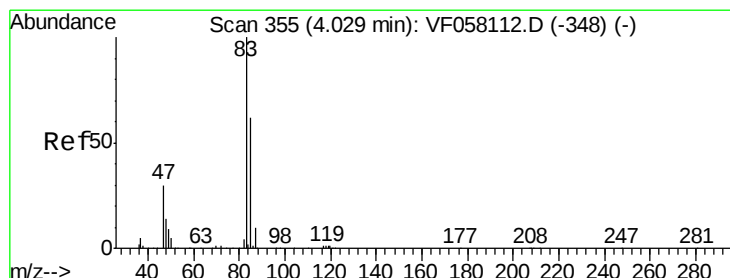
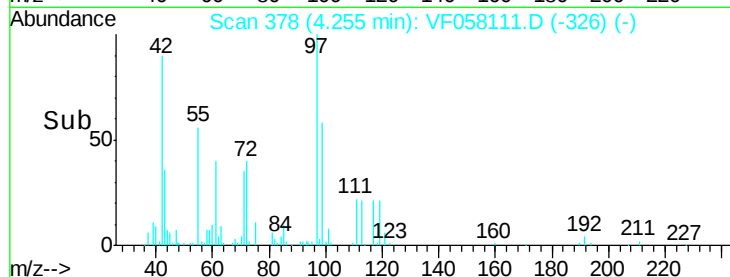
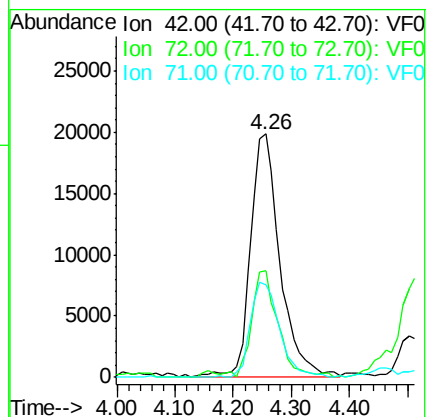
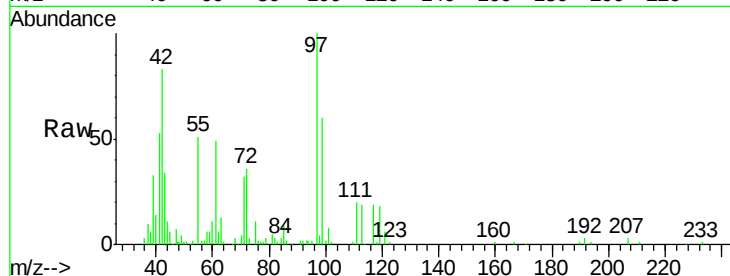
Tgt Ion: 42 Resp: 70956

Ion Ratio Lower Upper

42 100

72 39.3 30.5 45.7

71 38.3 31.5 47.3



#30

Chloroform

Concen: 20.03 ug/l

RT: 4.03 min Scan# 355

Delta R.T. -0.00 min

Lab File: VF058111.D

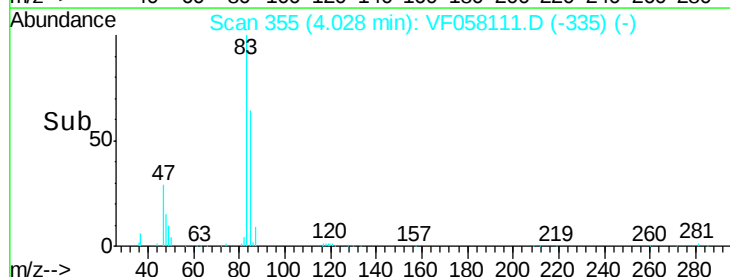
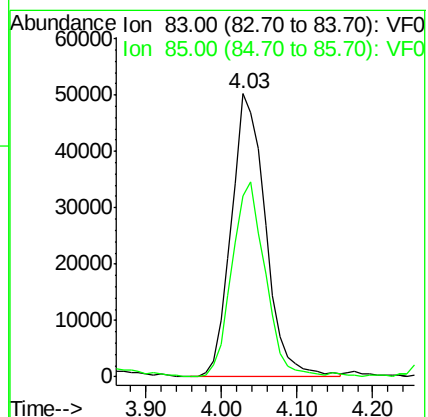
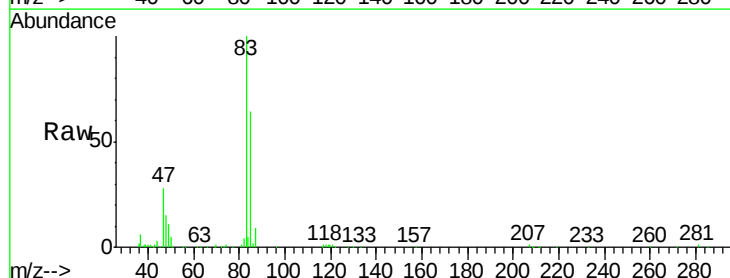
Acq: 6 Jun 2018 17:13

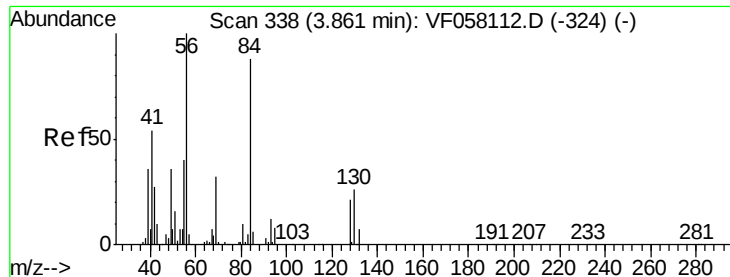
Tgt Ion: 83 Resp: 157568

Ion Ratio Lower Upper

83 100

85 64.1 49.5 74.3

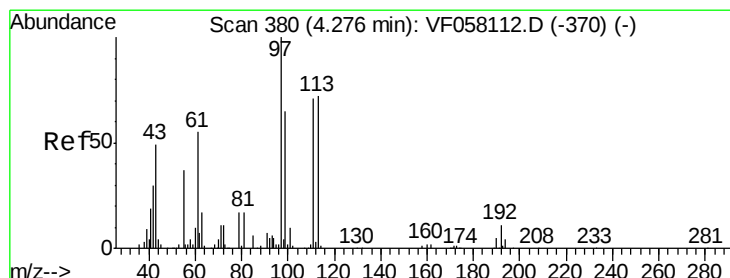
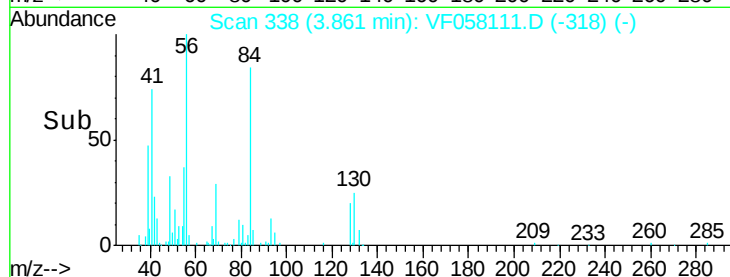
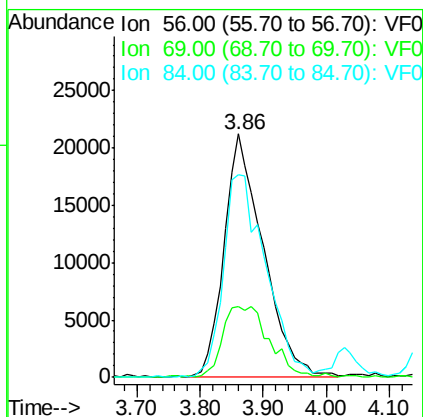
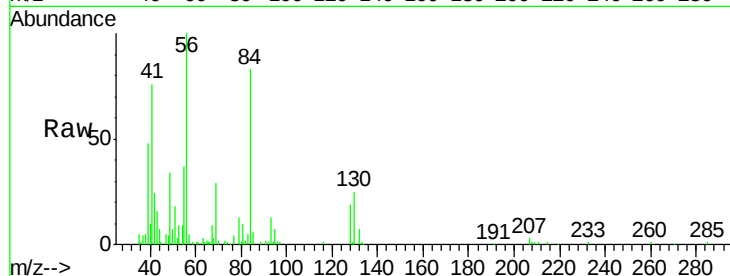




#31
Cyclohexane
Concen: 18.54 ug/l
RT: 3.86 min Scan# 338
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

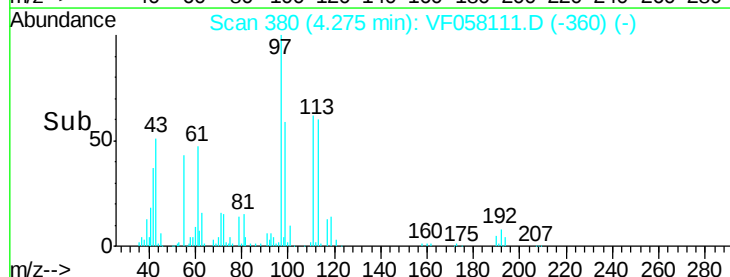
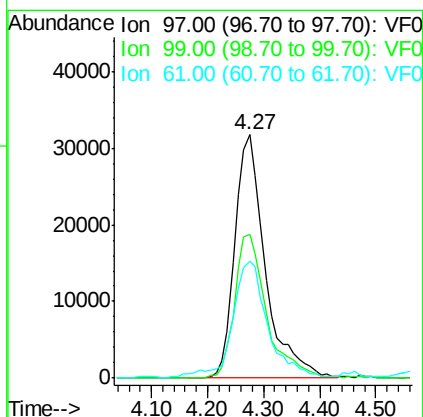
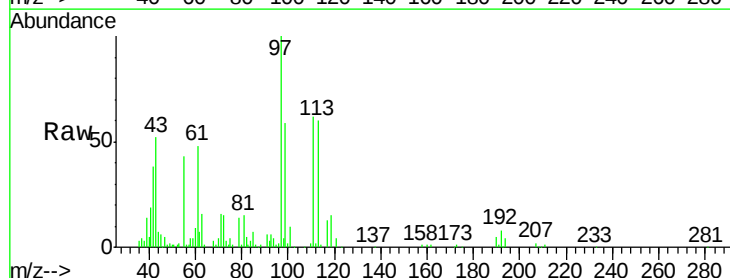
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

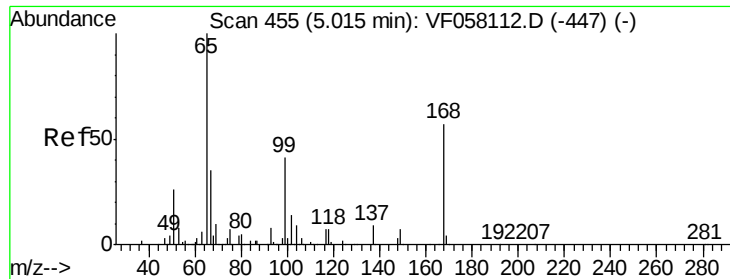
Tgt Ion: 56 Resp: 91502
Ion Ratio Lower Upper
56 100
69 29.0 25.9 38.9
84 83.2 70.3 105.5



#32
1,1,1-Trichloroethane
Concen: 21.46 ug/l
RT: 4.27 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Tgt Ion: 97 Resp: 119816
Ion Ratio Lower Upper
97 100
99 59.2 52.0 78.0
61 47.9 44.3 66.5





#33

1,2-Dichloroethane-d4

Concen: 18.64 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

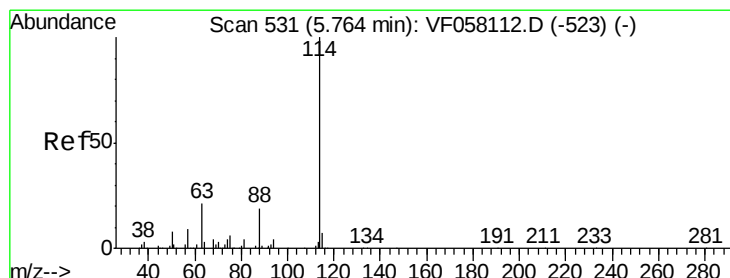
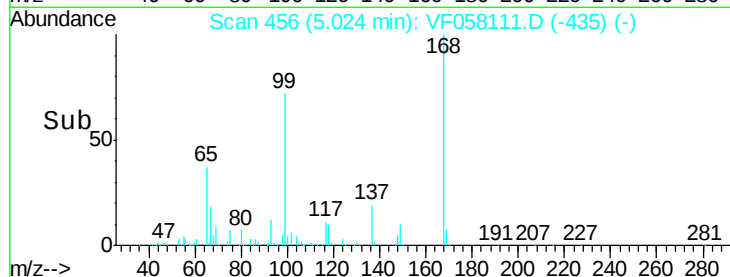
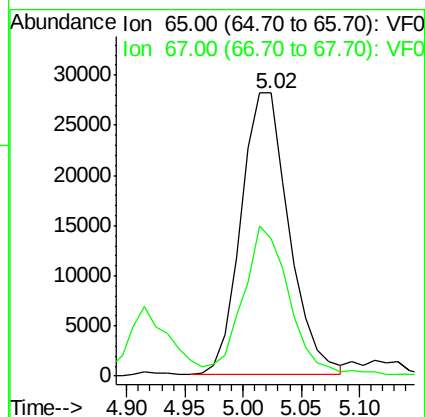
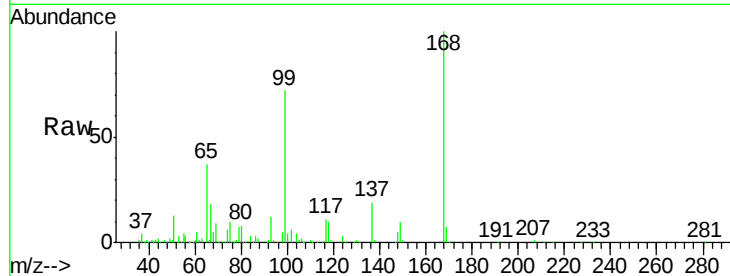
VSTDIC020

Tgt Ion: 65 Resp: 80545

Ion Ratio Lower Upper

65 100

67 48.4 0.0 97.0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

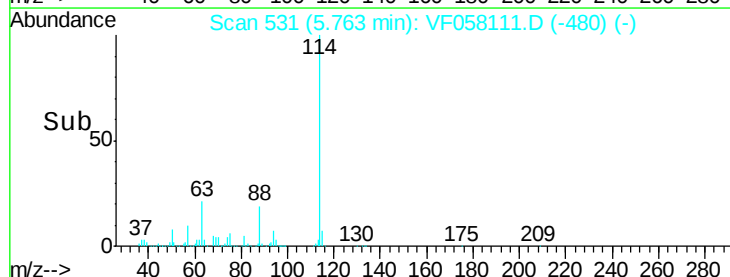
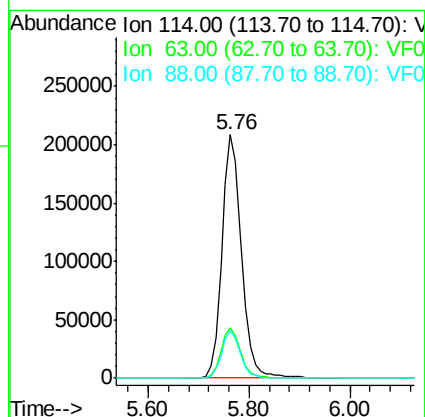
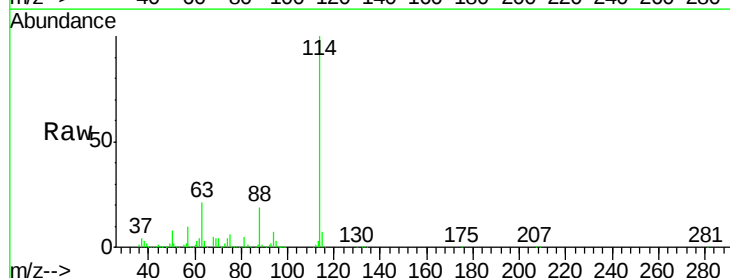
Tgt Ion: 114 Resp: 561785

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.6

88 19.4 0.0 38.8





#35

Dibromofluoromethane

Concen: 19.27 ug/l

RT: 4.28 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

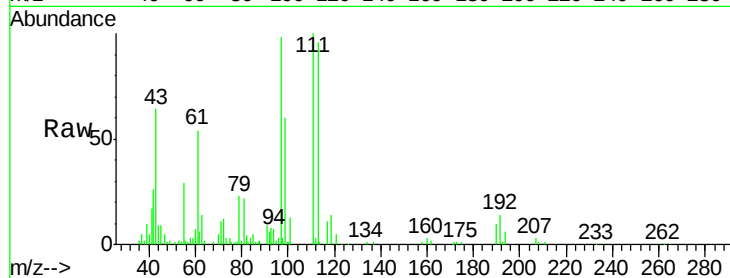
Tgt Ion:113 Resp: 80299

Ion Ratio Lower Upper

113 100

111 104.3 81.3 121.9

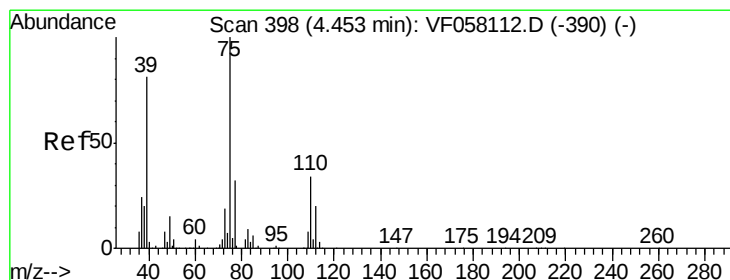
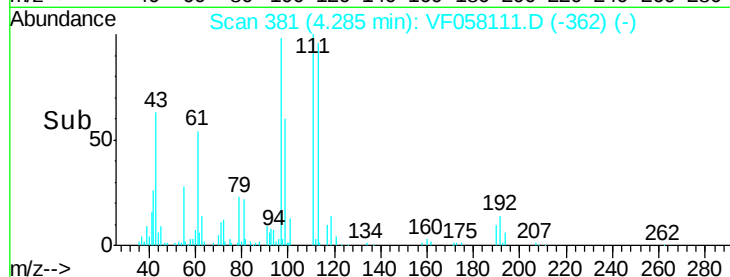
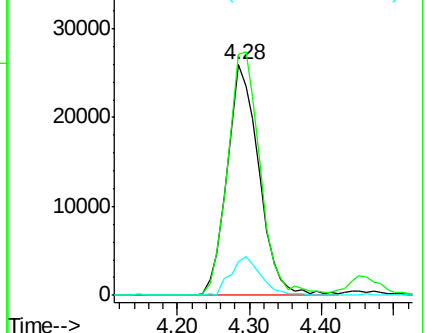
192 14.8 12.7 19.1



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: 18.65 ug/l

RT: 4.45 min Scan# 398

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

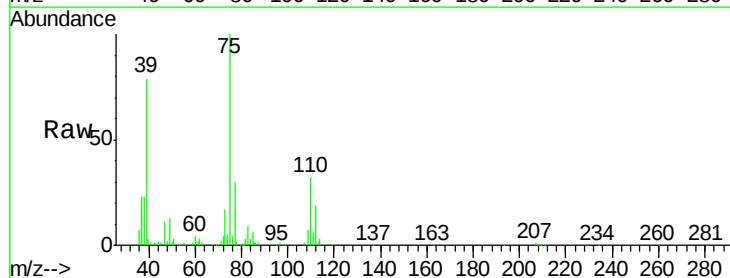
Tgt Ion: 75 Resp: 105942

Ion Ratio Lower Upper

75 100

110 31.9 17.0 50.9

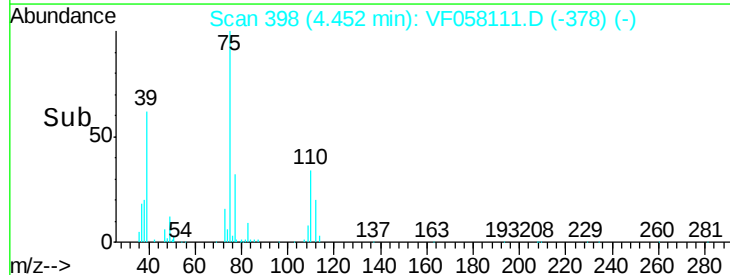
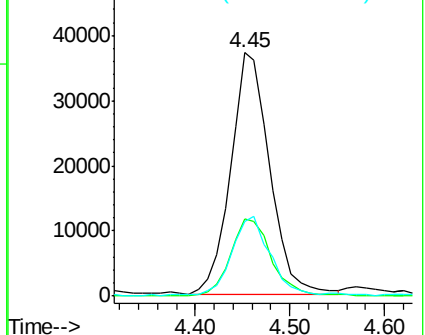
77 30.5 25.3 37.9

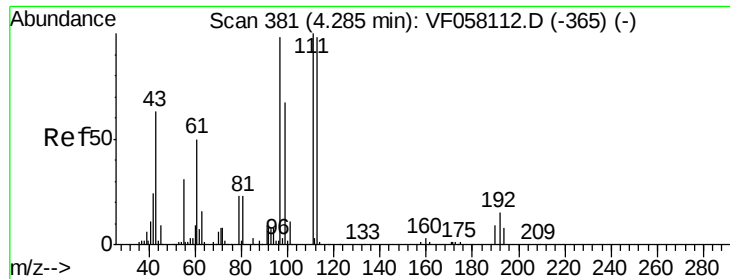


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 21.73 ug/l

RT: 4.29 min Scan# 382

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

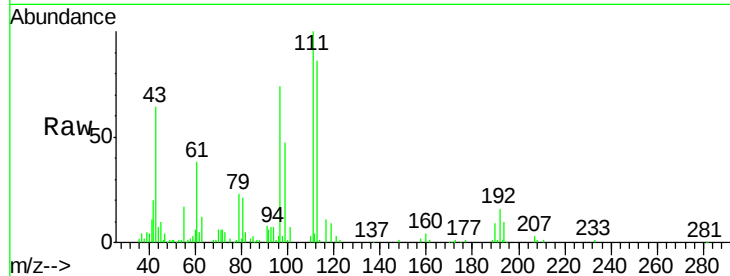
Tgt Ion: 43 Resp: 72807

Ion Ratio Lower Upper

43 100

61 60.2 63.0 94.4#

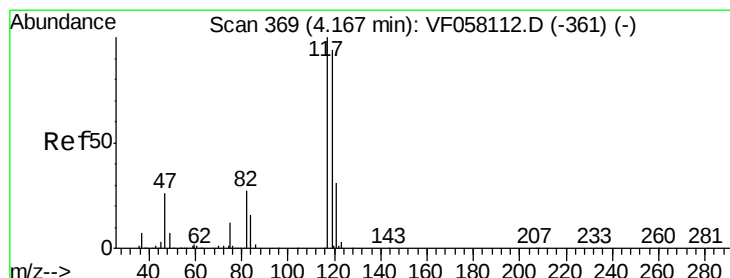
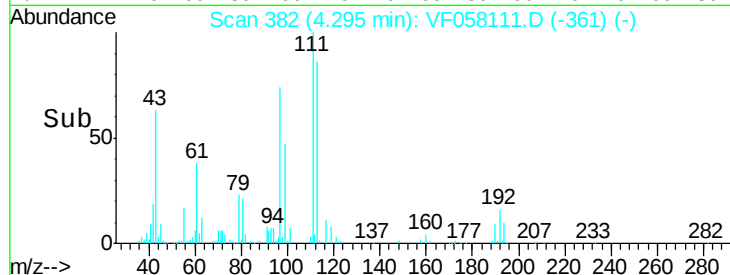
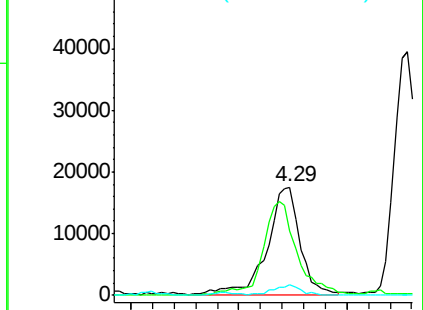
70 9.6 7.5 11.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 22.63 ug/l

RT: 4.17 min Scan# 369

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

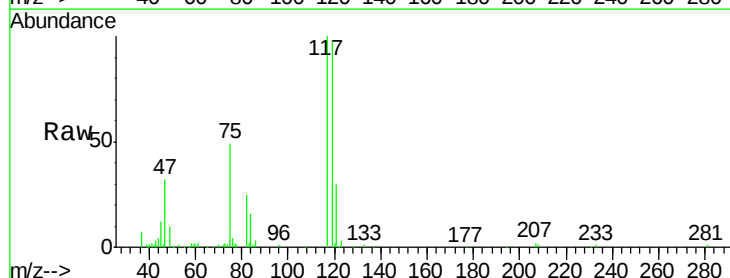
Tgt Ion: 117 Resp: 136608

Ion Ratio Lower Upper

117 100

119 97.6 75.7 113.5

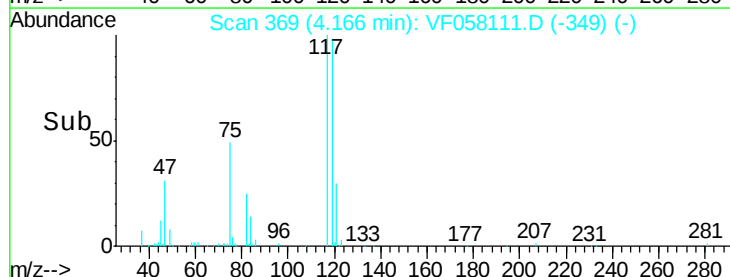
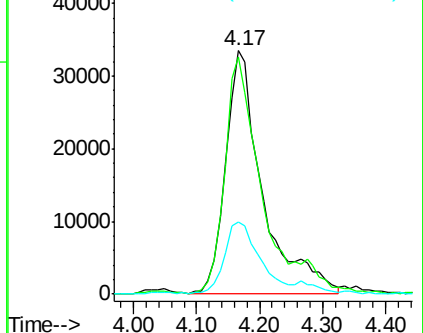
121 29.7 24.8 37.2

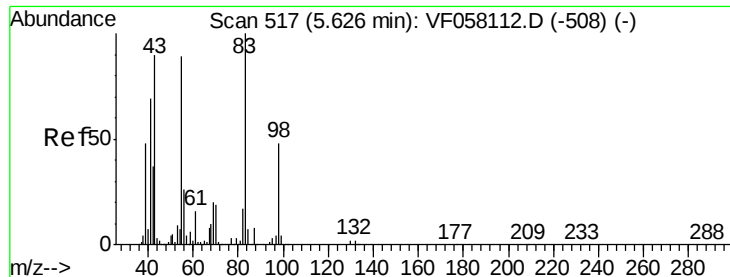


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

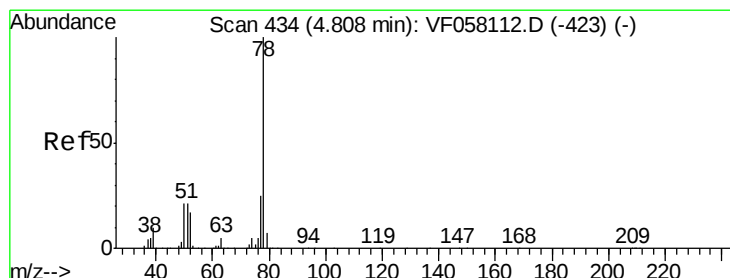
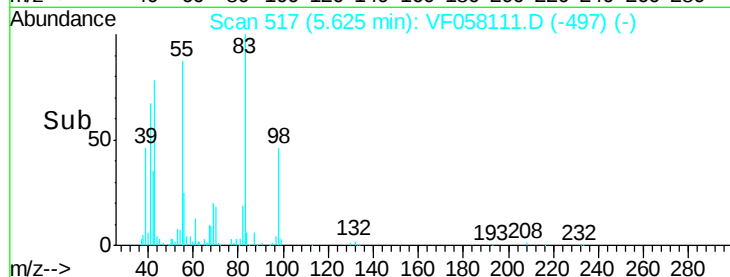
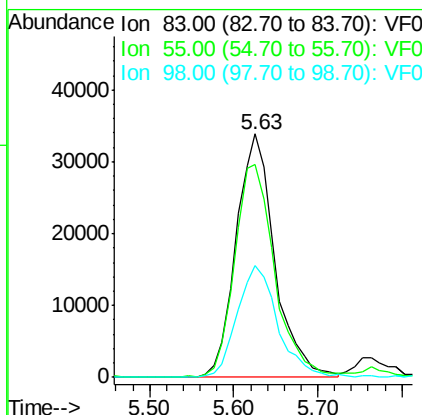
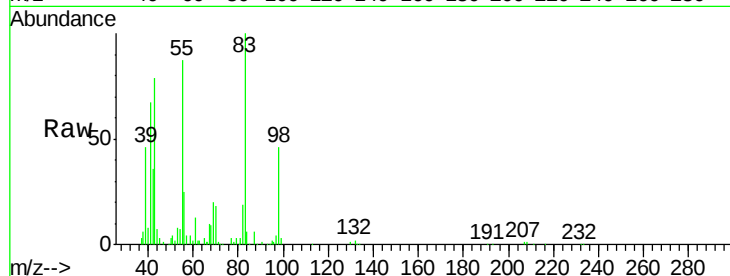




#39
Methylcyclohexane
Concen: 18.46 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

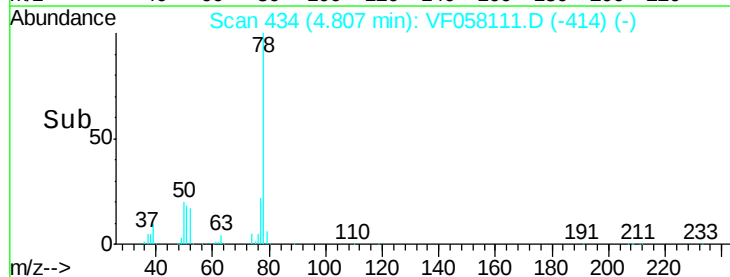
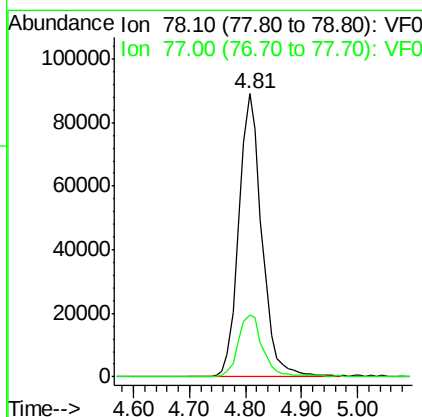
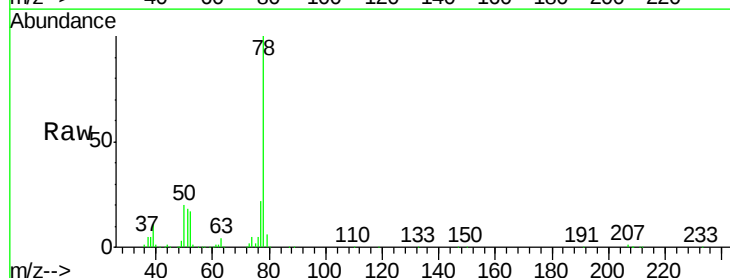
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

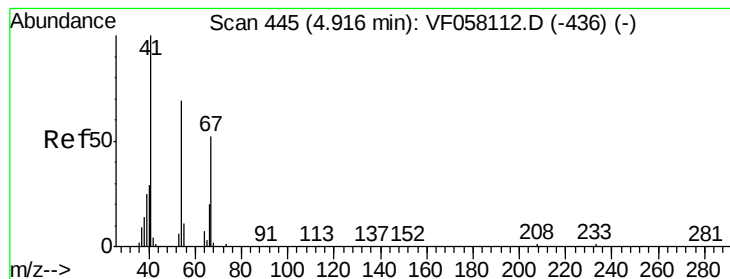
Tgt Ion: 83 Resp: 108377
Ion Ratio Lower Upper
83 100
55 87.5 71.0 106.4
98 46.0 38.1 57.1



#40
Benzene
Concen: 19.11 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Tgt Ion: 78 Resp: 254202
Ion Ratio Lower Upper
78 100
77 22.0 20.2 30.2





#41

Methacrylonitrile

Concen: 19.29 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 32732

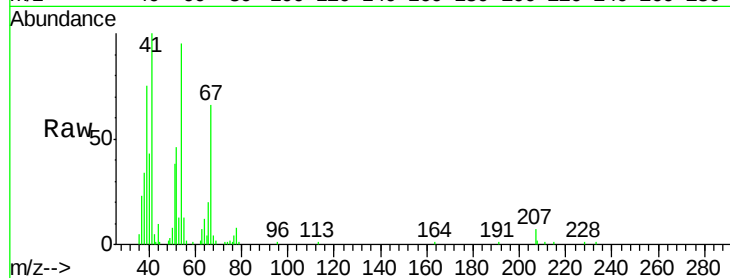
Ion Ratio Lower Upper

41 100

39 75.3 53.0 79.4

67 66.0 41.0 61.6#

52 46.1 36.8 55.2

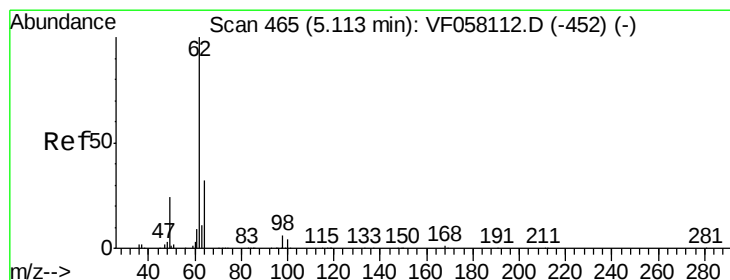
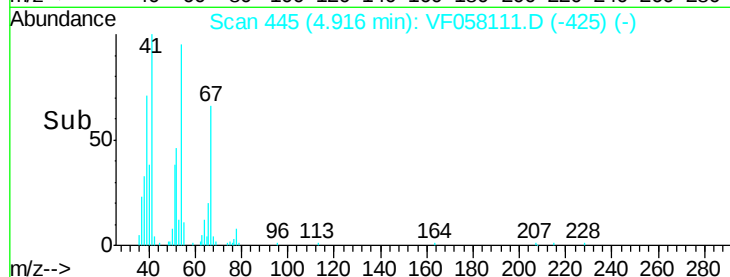
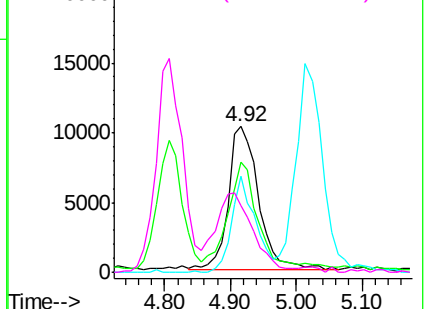


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 20.24 ug/l

RT: 5.11 min Scan# 465

Delta R.T. -0.00 min

Lab File: VF058111.D

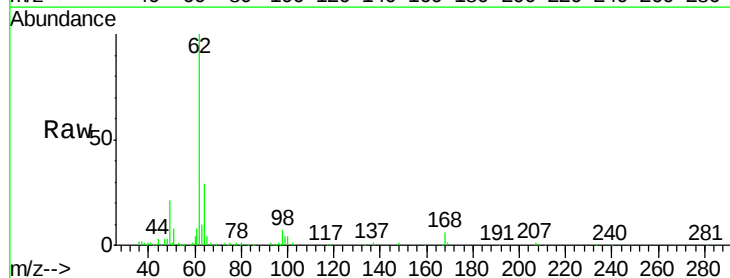
Acq: 6 Jun 2018 17:13

Tgt Ion: 62 Resp: 115600

Ion Ratio Lower Upper

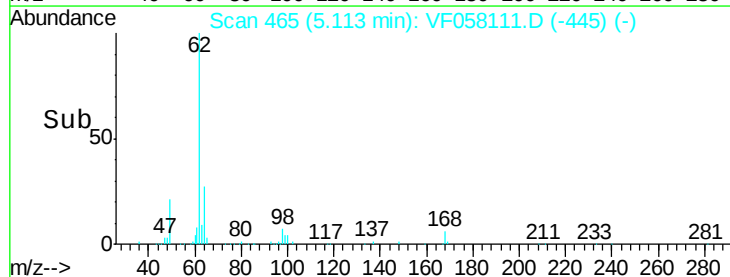
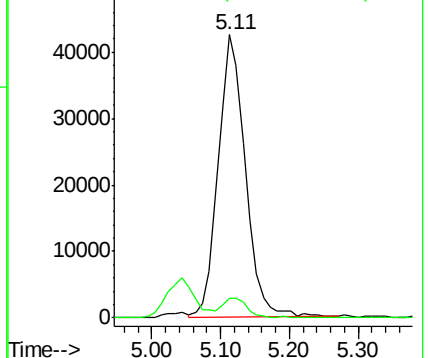
62 100

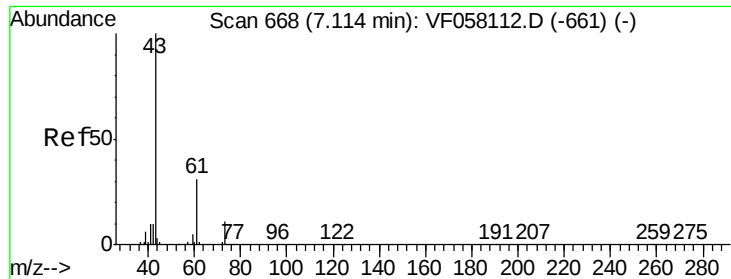
98 6.8 0.0 11.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 18.68 ug/l

RT: 7.11 min Scan# 668

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

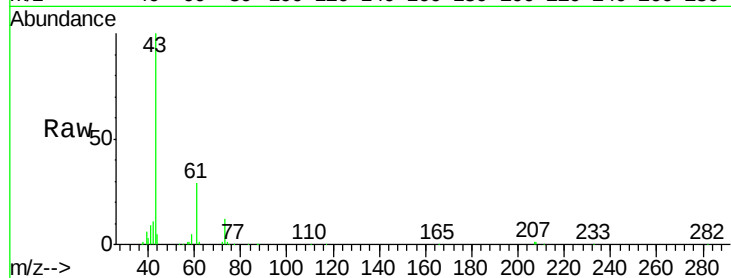
Tgt Ion: 43 Resp: 84828

Ion Ratio Lower Upper

43 100

61 29.0 25.1 37.7

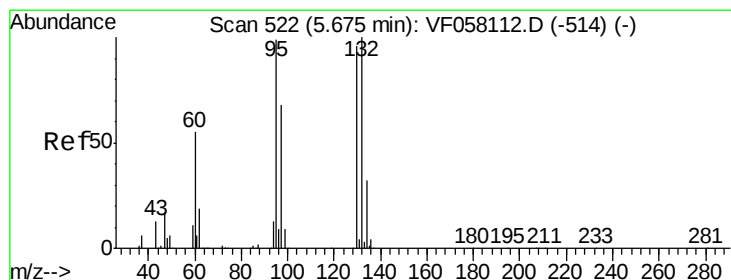
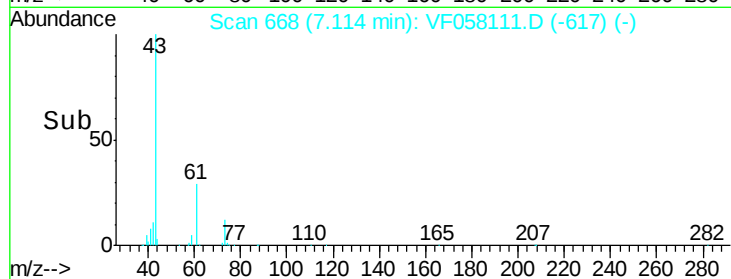
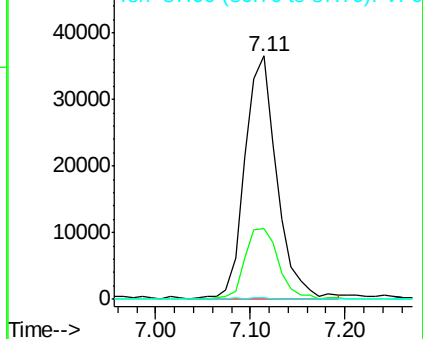
87 0.5 0.2 0.4#



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: 19.08 ug/l

RT: 5.67 min Scan# 522

Delta R.T. -0.00 min

Lab File: VF058111.D

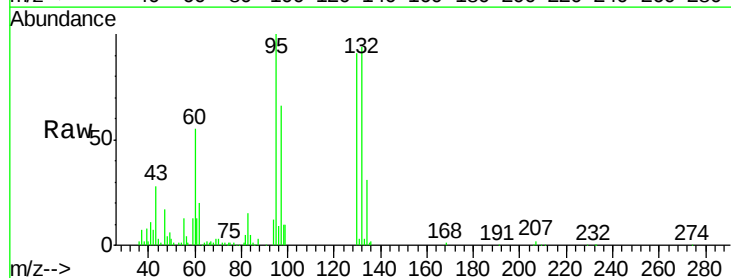
Acq: 6 Jun 2018 17:13

Tgt Ion: 130 Resp: 79067

Ion Ratio Lower Upper

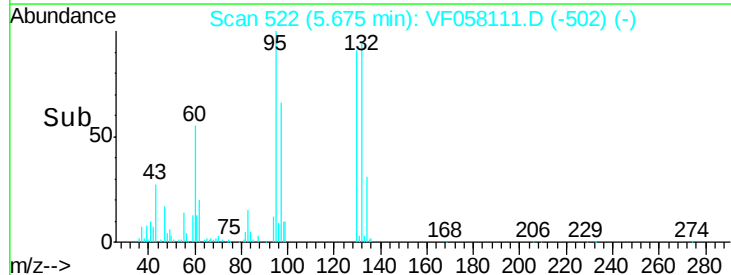
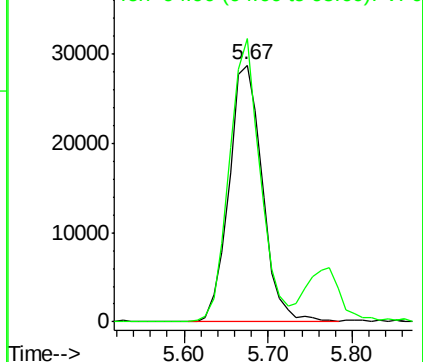
130 100

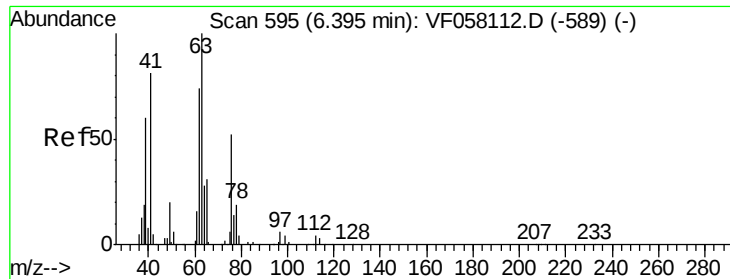
95 110.3 0.0 206.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 19.41 ug/l

RT: 6.40 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

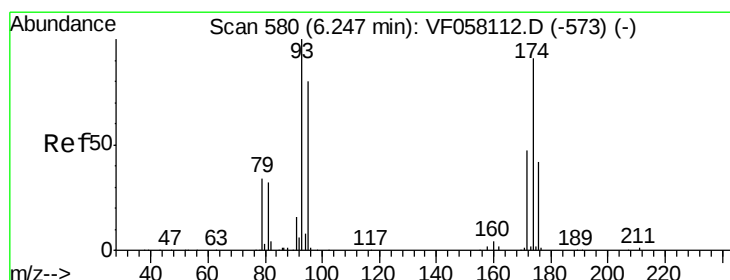
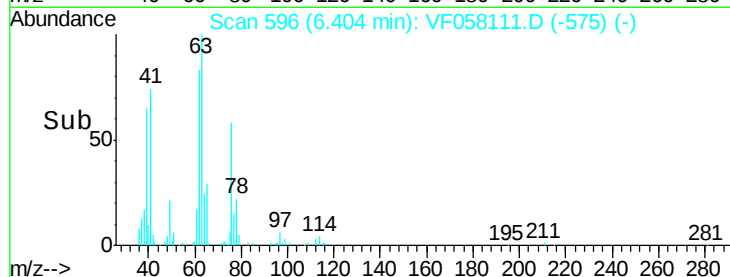
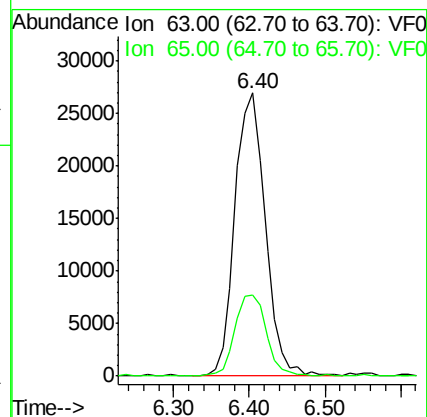
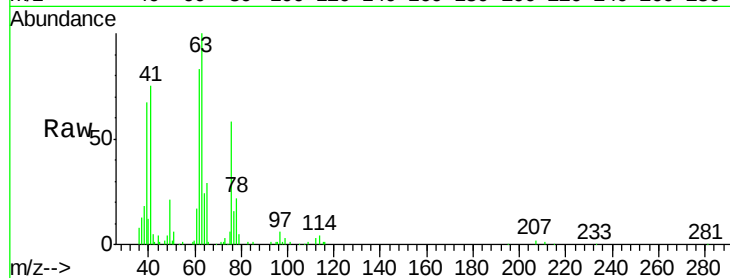
VSTDIC020

Tgt Ion: 63 Resp: 75043

Ion Ratio Lower Upper

63 100

65 28.7 24.6 37.0



#46

Dibromomethane

Concen: 18.66 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

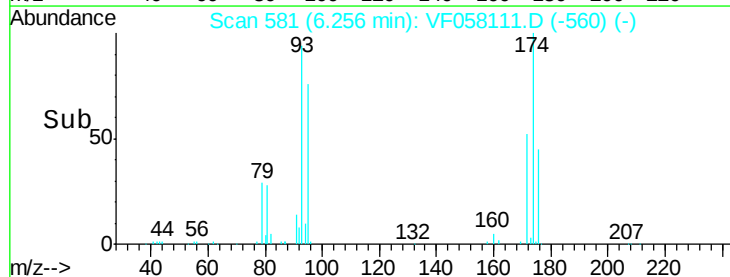
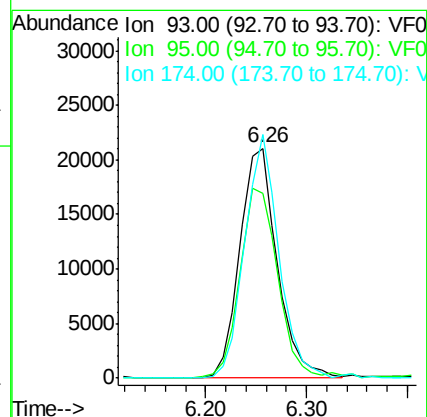
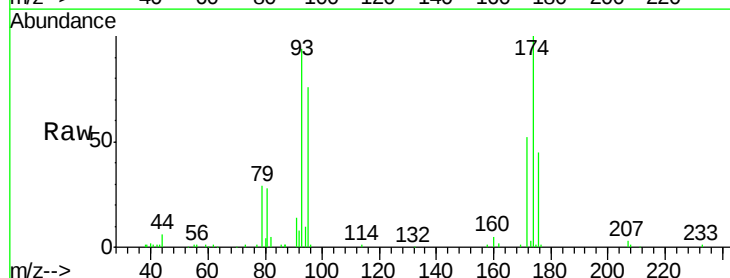
Tgt Ion: 93 Resp: 54458

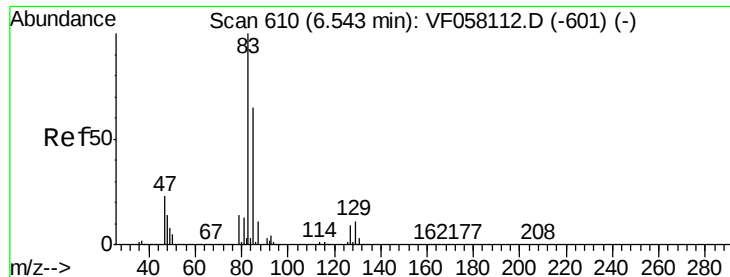
Ion Ratio Lower Upper

93 100

95 81.9 64.2 96.4

174 106.0 72.7 109.1





#47

Bromodichloromethane

Concen: 19.59 ug/l

RT: 6.55 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

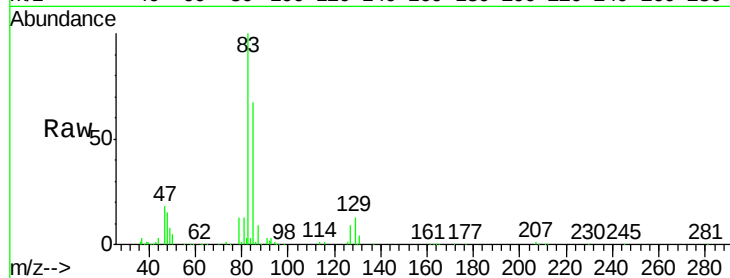
Tgt Ion: 83 Resp: 126143

Ion Ratio Lower Upper

83 100

85 66.9 51.6 77.4

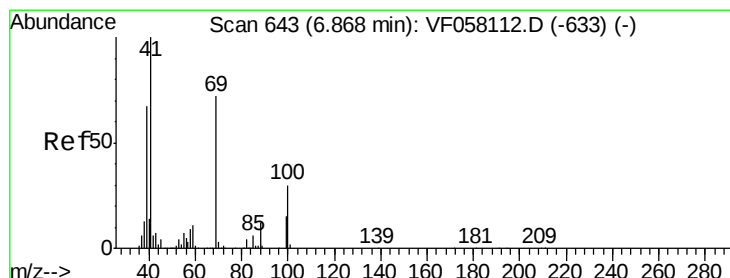
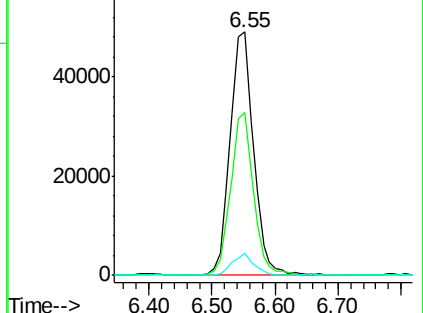
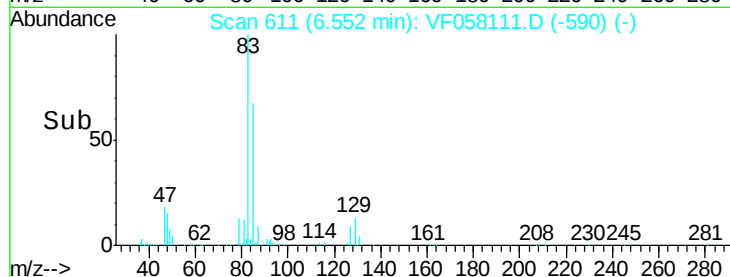
127 9.2 7.2 10.8



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: 18.96 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

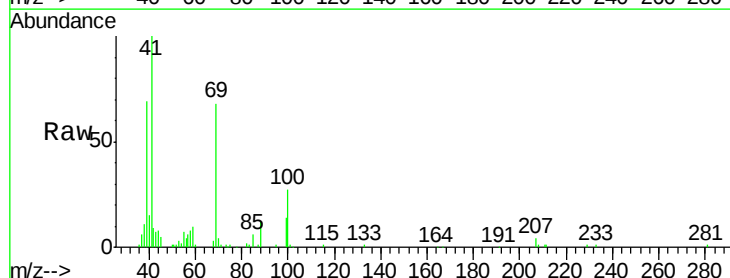
Tgt Ion: 41 Resp: 54431

Ion Ratio Lower Upper

41 100

69 67.8 57.2 85.8

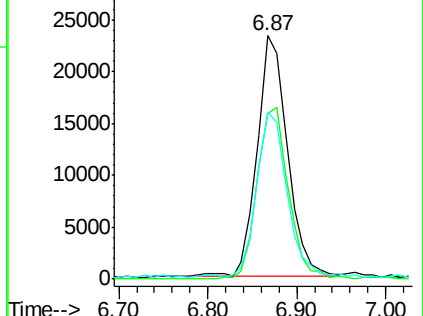
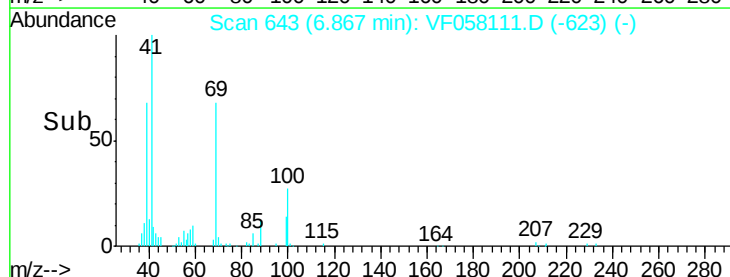
39 68.7 54.3 81.5

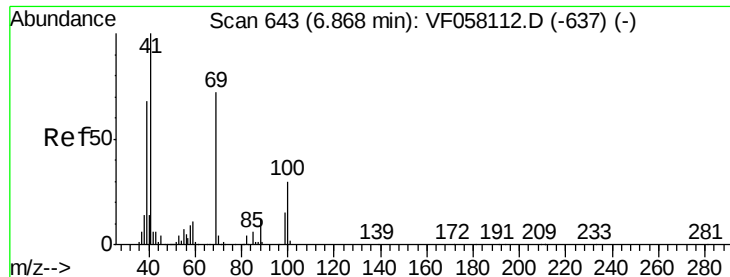


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

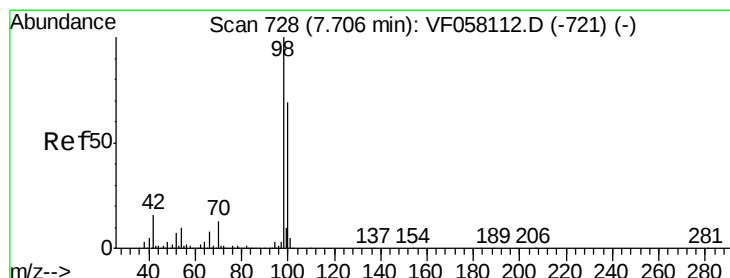
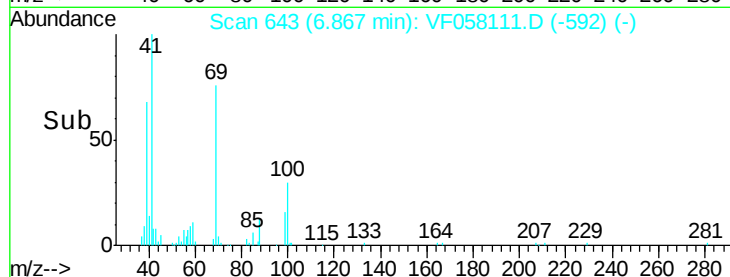
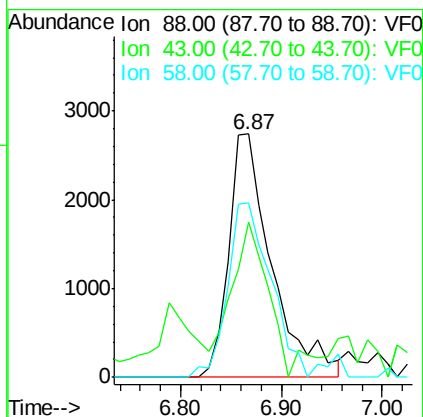
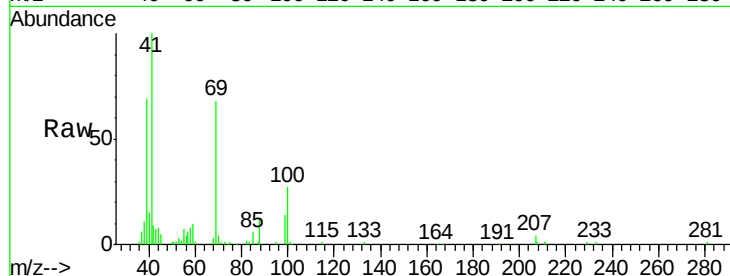




#49
1,4-Dioxane
Concen: 410.02 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

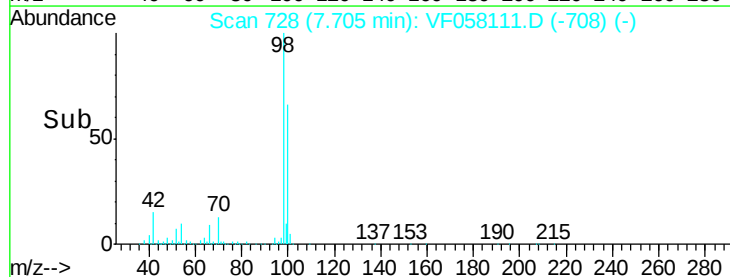
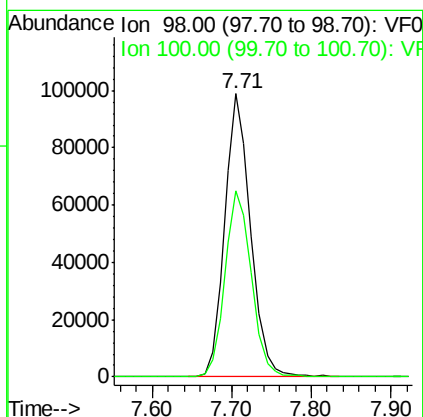
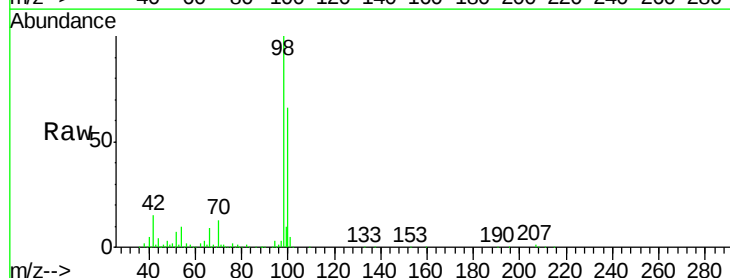
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

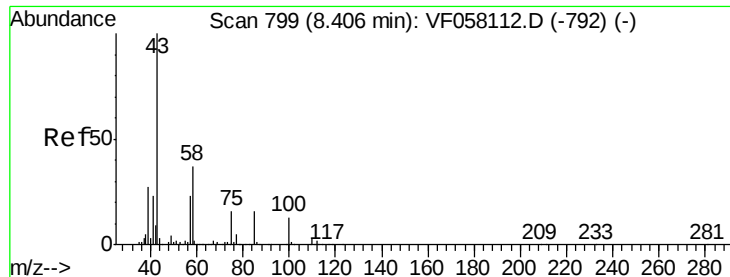
Tgt Ion: 88 Resp: 8123
Ion Ratio Lower Upper
88 100
43 63.8 47.8 71.8
58 71.6 59.4 89.0



#50
Toluene-d8
Concen: 18.29 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Tgt Ion: 98 Resp: 225863
Ion Ratio Lower Upper
98 100
100 65.7 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 99.48 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

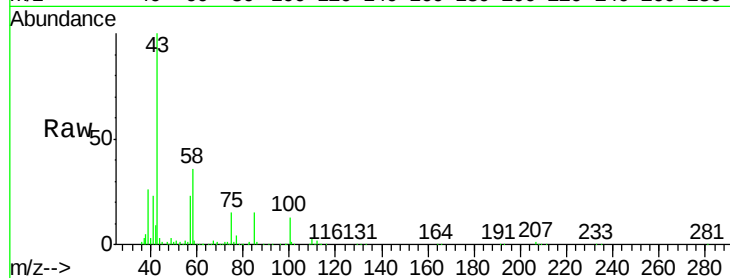
VSTDIC020

Tgt Ion: 43 Resp: 313668

Ion Ratio Lower Upper

43 100

58 36.4 29.4 44.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

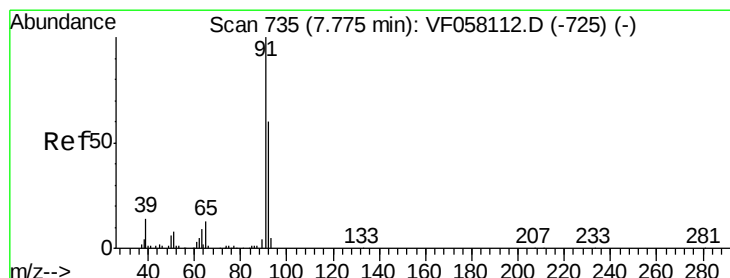
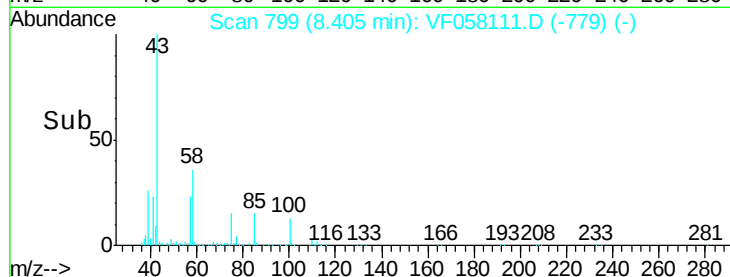
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 19.40 ug/l

RT: 7.77 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF058111.D

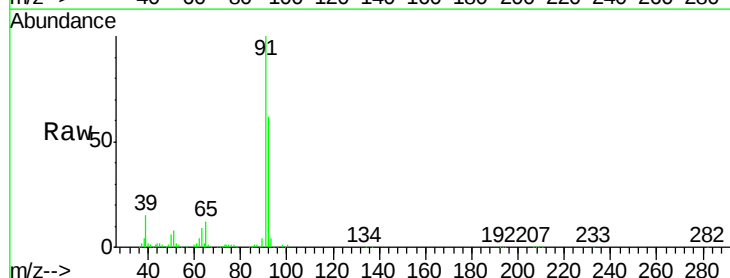
Acq: 6 Jun 2018 17:13

Tgt Ion: 92 Resp: 183221

Ion Ratio Lower Upper

92 100

91 162.2 132.9 199.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.77

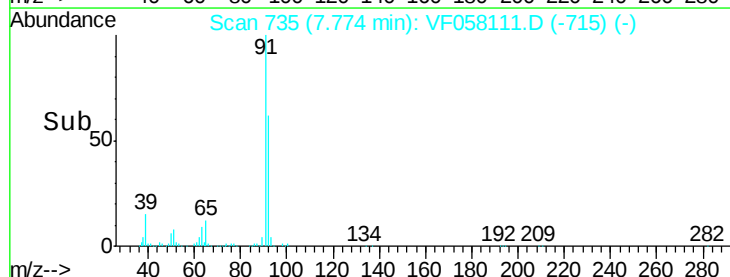
150000

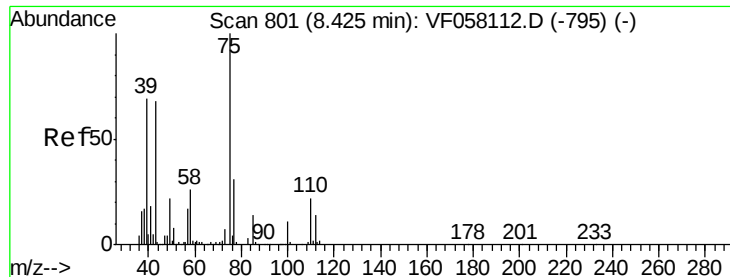
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 19.84 ug/l

RT: 8.42 min Scan# 801

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

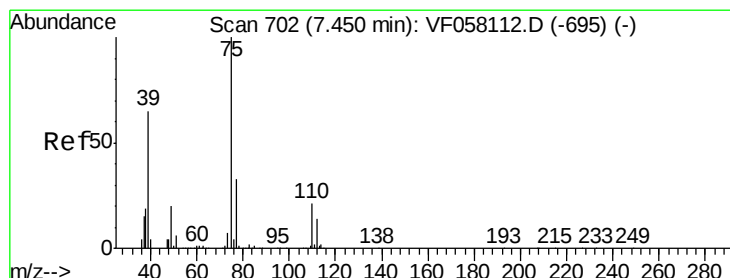
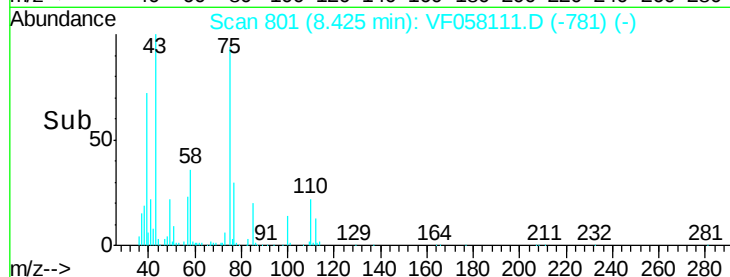
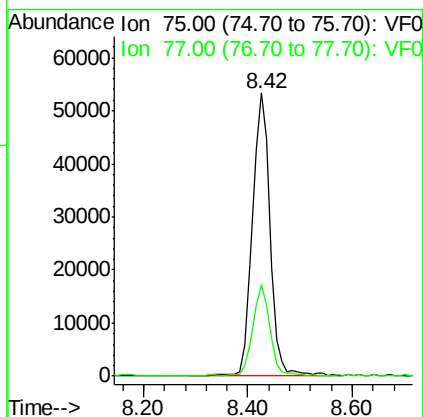
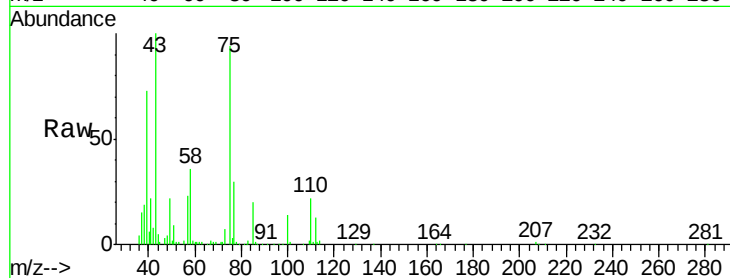
VSTDIC020

Tgt Ion: 75 Resp: 122057

Ion Ratio Lower Upper

75 100

77 32.3 25.1 37.7



#54

cis-1,3-Dichloropropene

Concen: 20.74 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

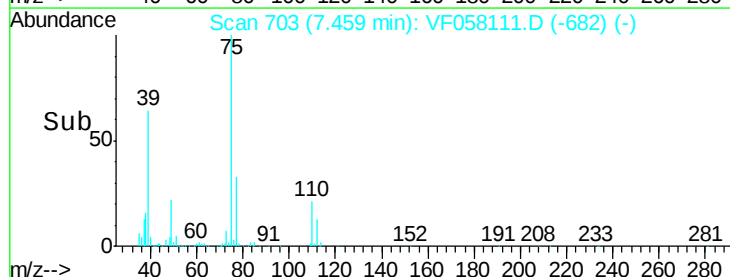
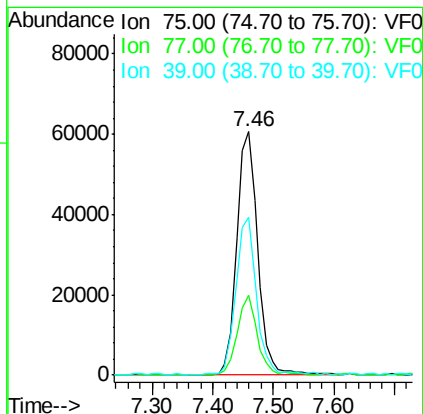
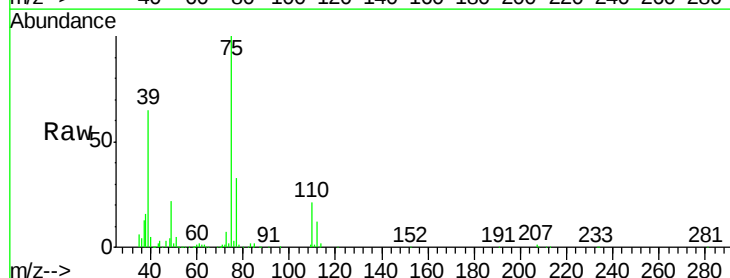
Tgt Ion: 75 Resp: 146640

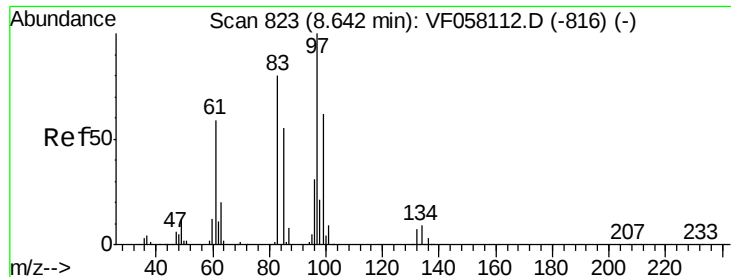
Ion Ratio Lower Upper

75 100

77 32.8 26.3 39.5

39 64.6 52.1 78.1





#55

1,1,2-Trichloroethane

Concen: 20.09 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 68990

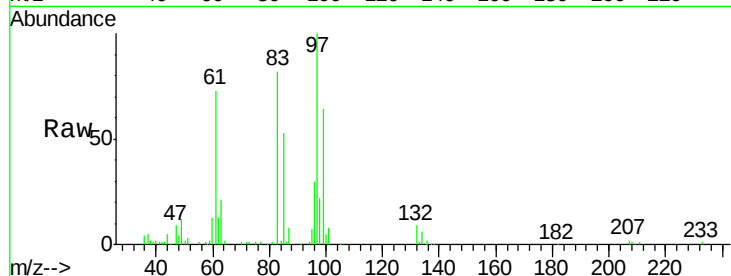
Ion Ratio Lower Upper

97 100

83 82.3 64.3 96.5

85 53.4 43.8 65.8

99 64.1 49.8 74.8

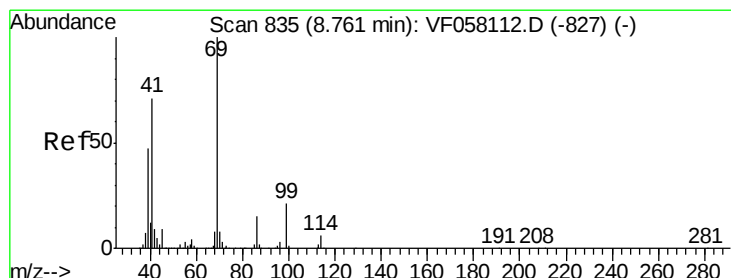
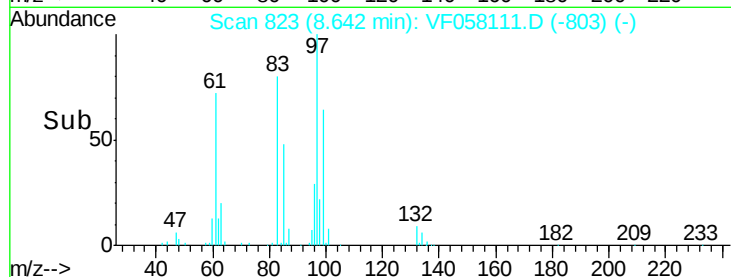
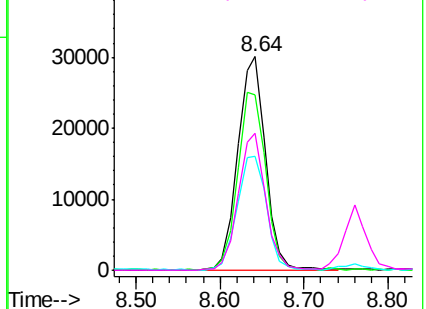


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 19.01 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

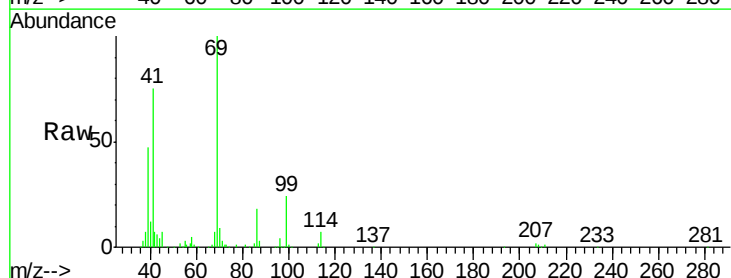
Tgt Ion: 69 Resp: 82562

Ion Ratio Lower Upper

69 100

41 75.3 56.9 85.3

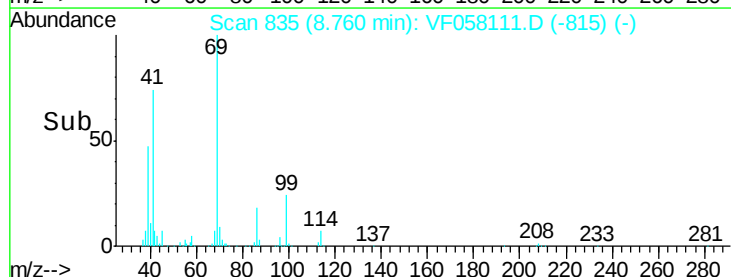
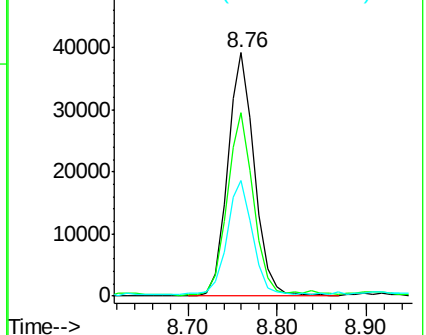
39 47.4 38.0 57.0

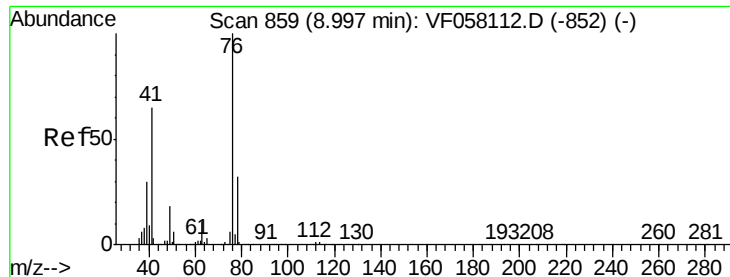


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 19.70 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

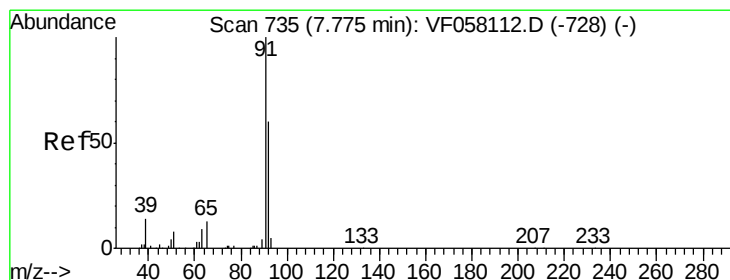
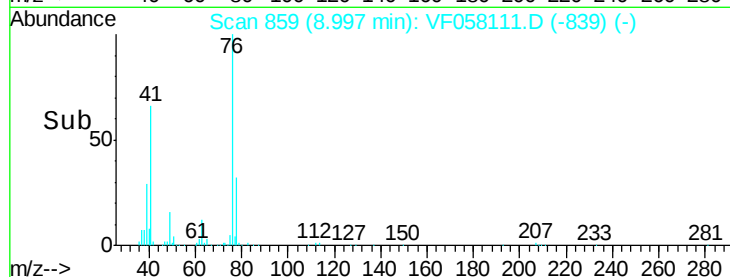
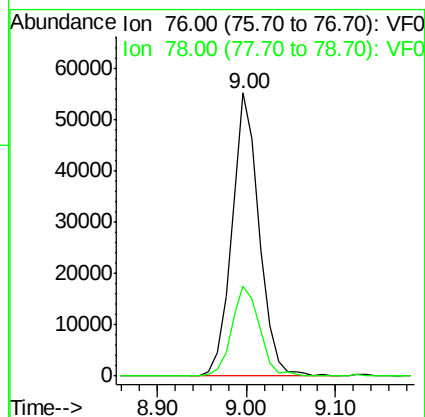
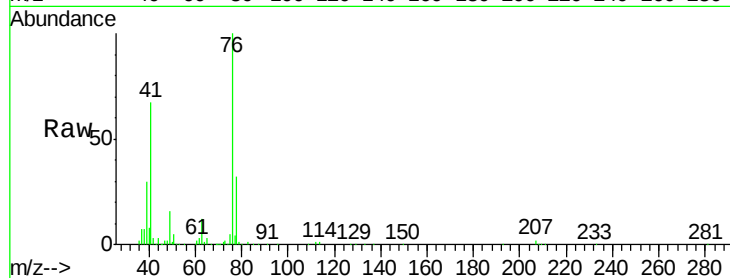
VSTDIC020

Tgt Ion: 76 Resp: 117755

Ion Ratio Lower Upper

76 100

78 31.6 25.8 38.6



#58

2-Chloroethyl Vinyl ether

Concen: 100.13 ug/l

RT: 7.77 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF058111.D

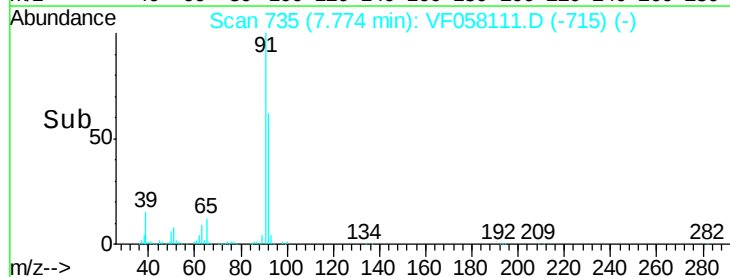
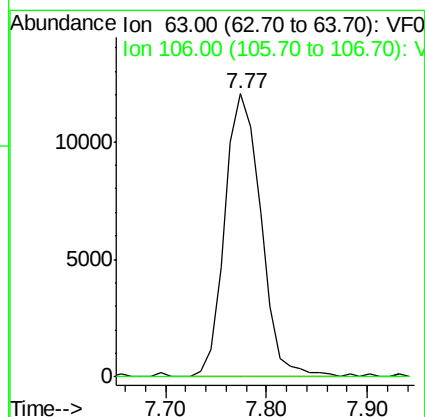
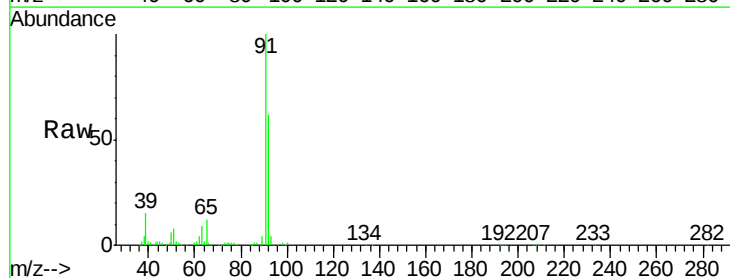
Acq: 6 Jun 2018 17:13

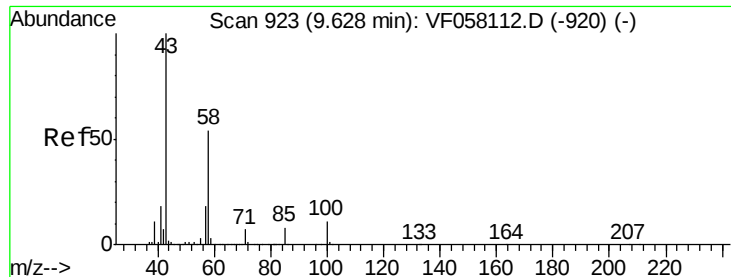
Tgt Ion: 63 Resp: 30062

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

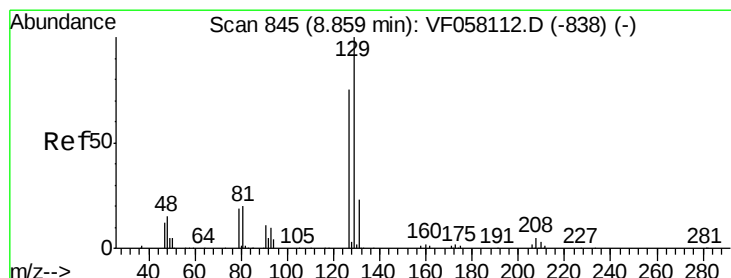
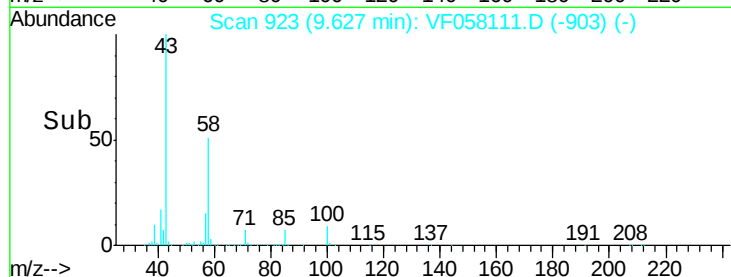
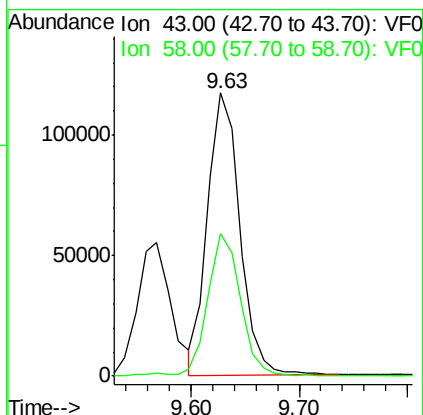
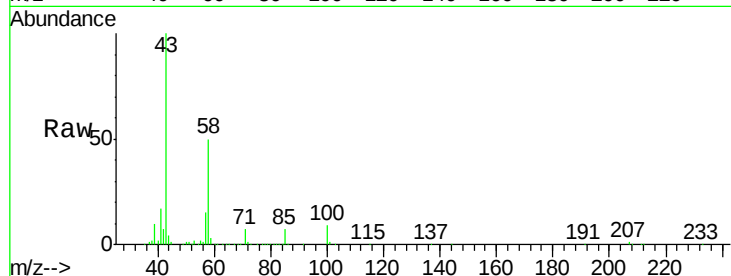




#59
2-Hexanone
Concen: 98.32 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

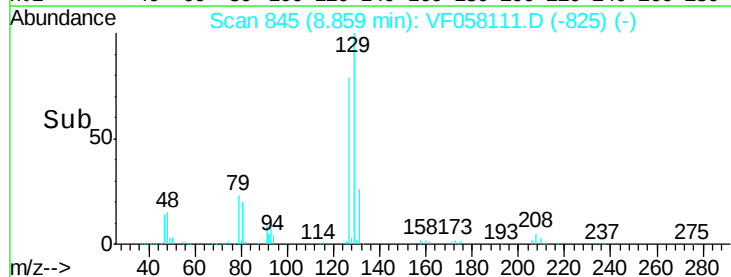
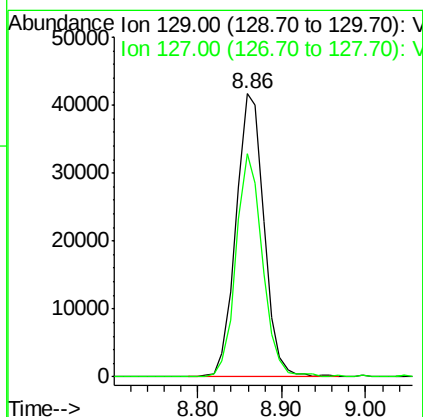
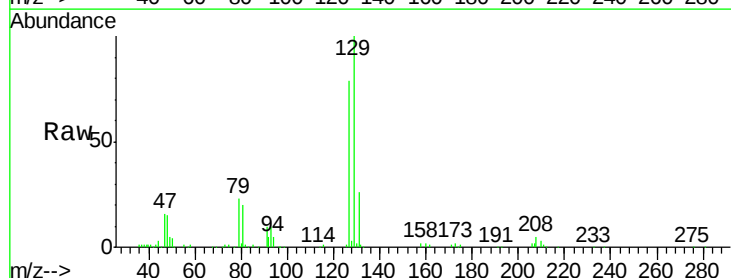
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

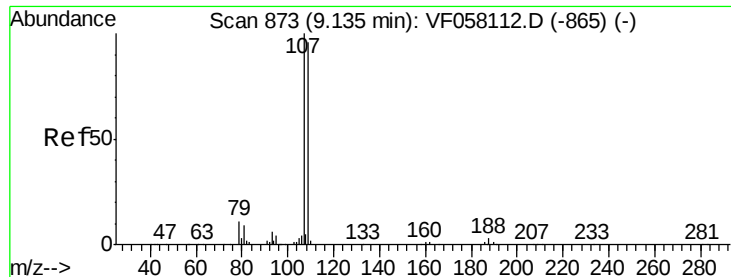
Tgt Ion: 43 Resp: 242750
Ion Ratio Lower Upper
43 100
58 50.4 26.3 78.8



#60
Dibromochloromethane
Concen: 19.80 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Tgt Ion: 129 Resp: 96683
Ion Ratio Lower Upper
129 100
127 79.0 37.6 112.9





#61

1,2-Dibromoethane

Concen: 19.00 ug/l

RT: 9.13 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

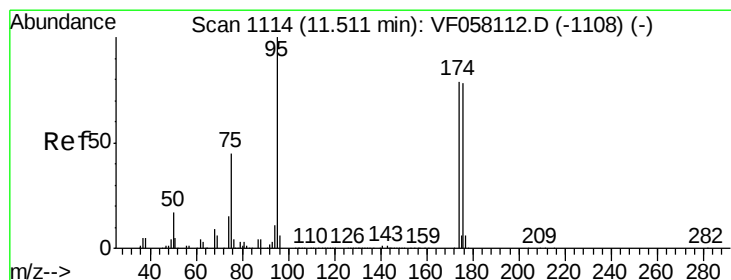
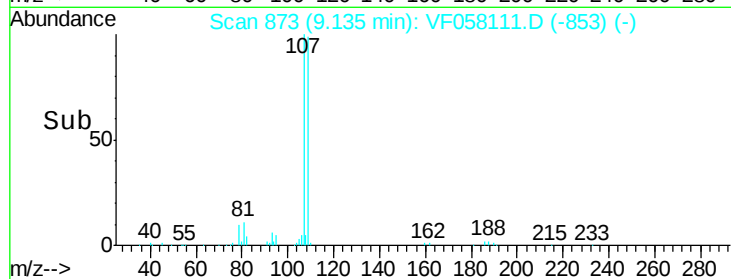
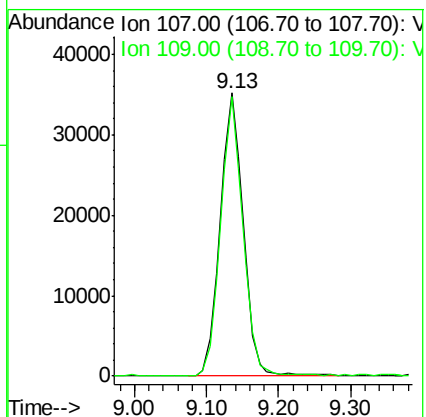
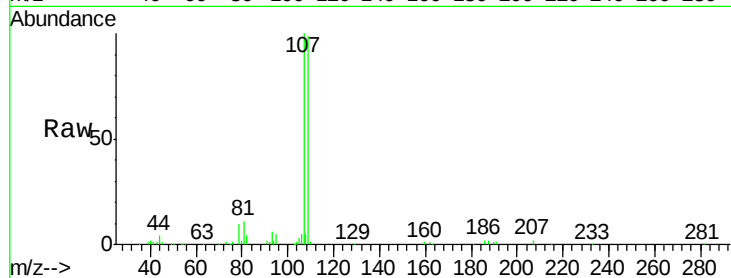
VSTDIC020

Tgt Ion: 107 Resp: 77849

Ion Ratio Lower Upper

107 100

109 98.7 76.6 115.0



#62

4-Bromofluorobenzene

Concen: 19.31 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

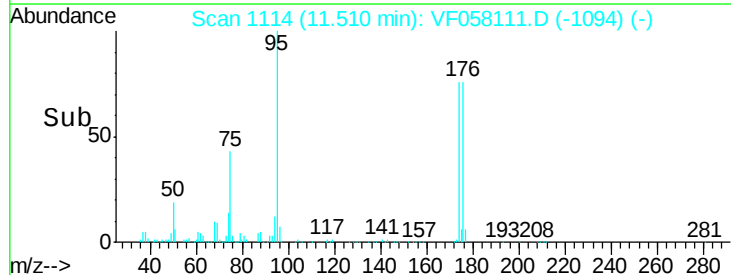
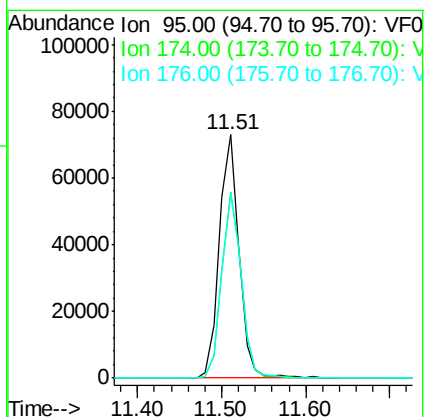
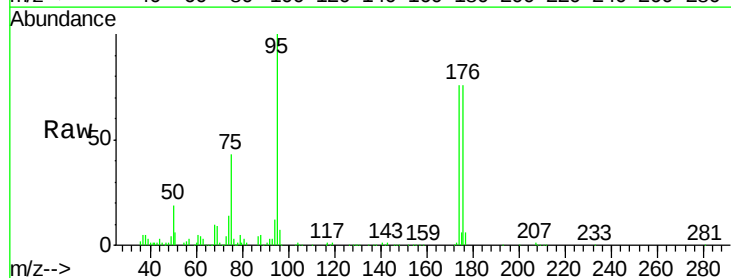
Tgt Ion: 95 Resp: 119331

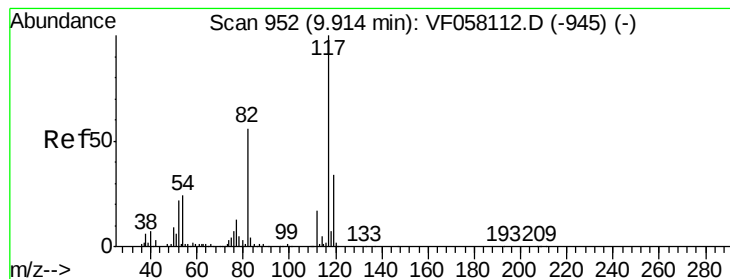
Ion Ratio Lower Upper

95 100

174 76.2 0.0 157.8

176 76.1 0.0 155.8





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

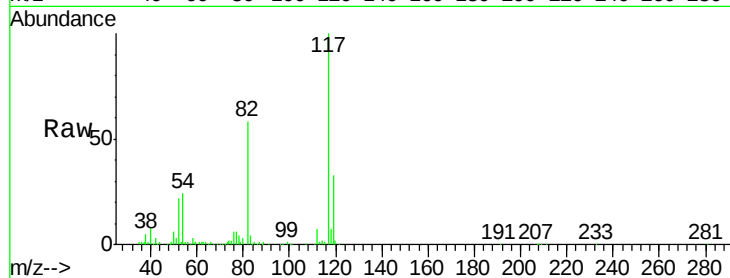
Tgt Ion:117 Resp: 546947

Ion Ratio Lower Upper

117 100

82 57.7 45.2 67.8

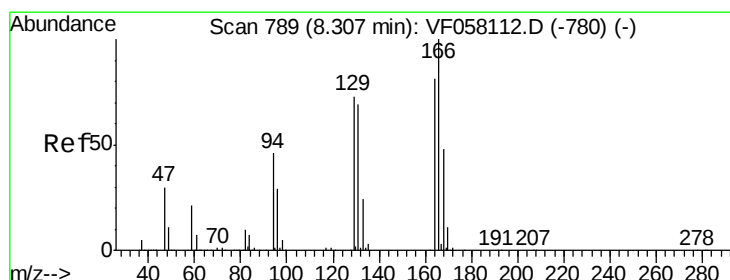
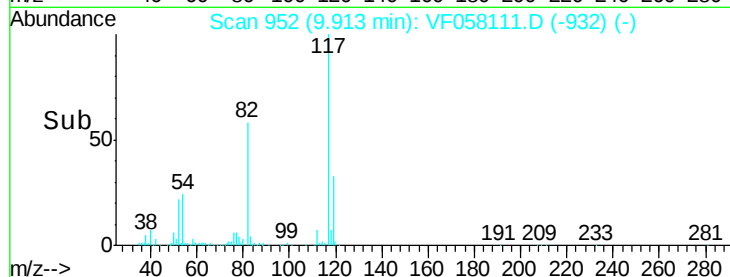
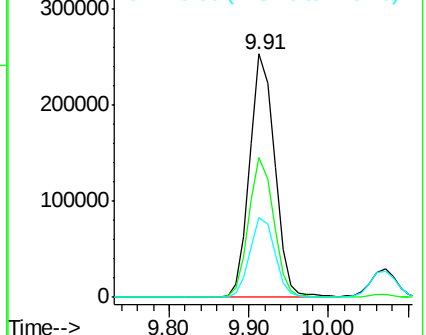
119 33.0 27.5 41.3



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: 18.82 ug/l

RT: 8.31 min Scan# 789

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Tgt Ion:164 Resp: 77705

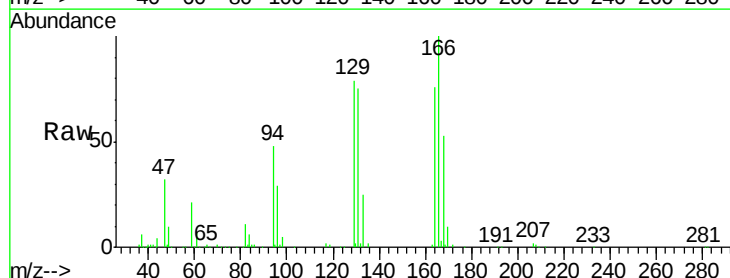
Ion Ratio Lower Upper

164 100

166 132.3 98.2 147.4

129 104.6 71.6 107.4

131 99.2 67.8 101.6

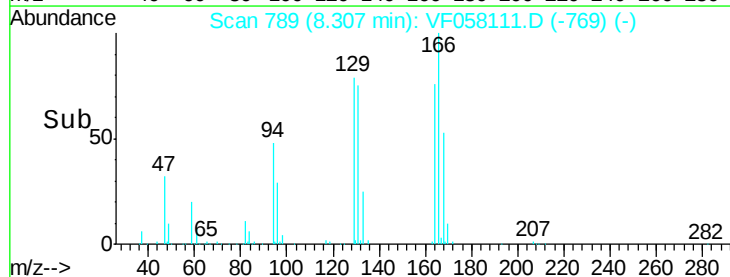
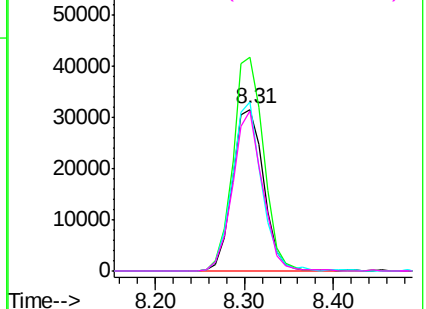


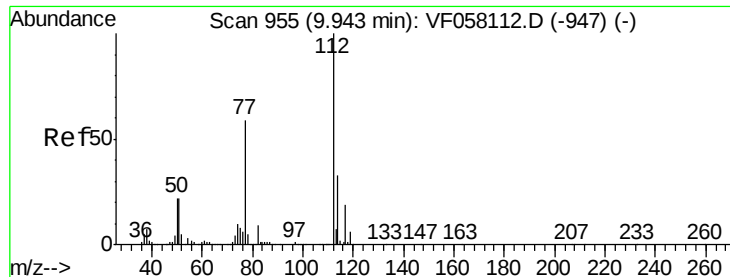
Abundance Ion 163.85 (163.55 to 164.55): V

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: 20.14 ug/l

RT: 9.94 min Scan# 955

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

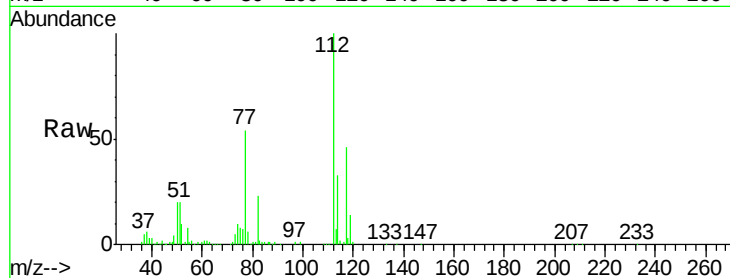
VSTDIC020

Tgt Ion:112 Resp: 223163

Ion Ratio Lower Upper

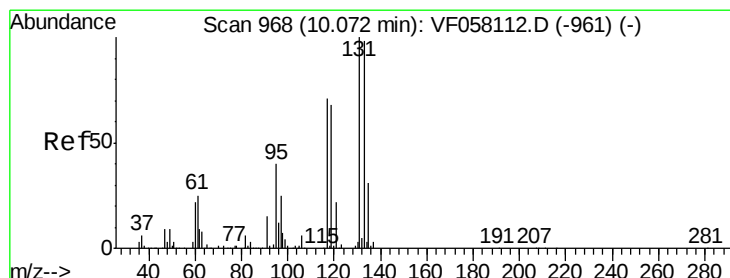
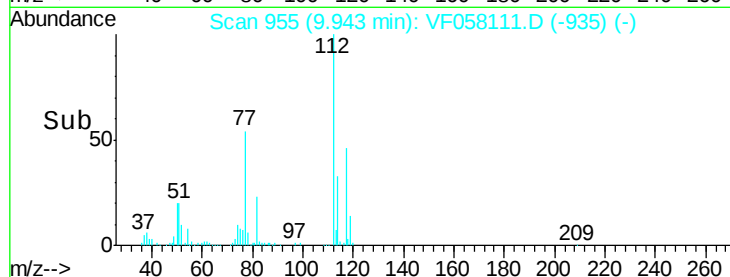
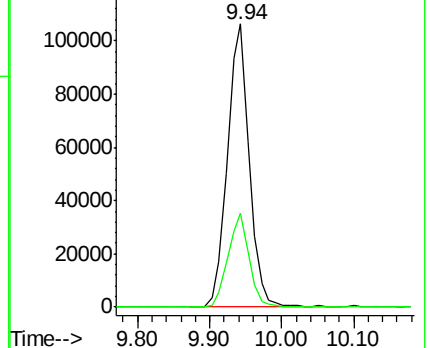
112 100

114 33.3 26.2 39.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.95 ug/l

RT: 10.07 min Scan# 968

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

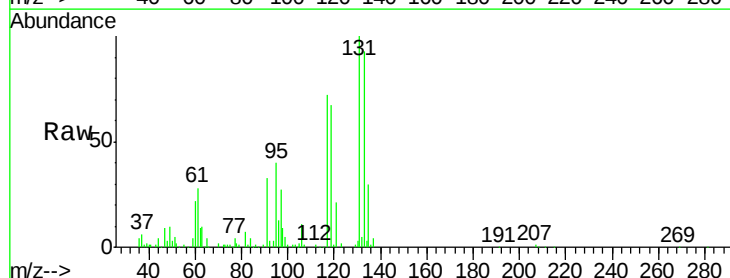
Tgt Ion:131 Resp: 90749

Ion Ratio Lower Upper

131 100

133 93.3 49.1 147.4

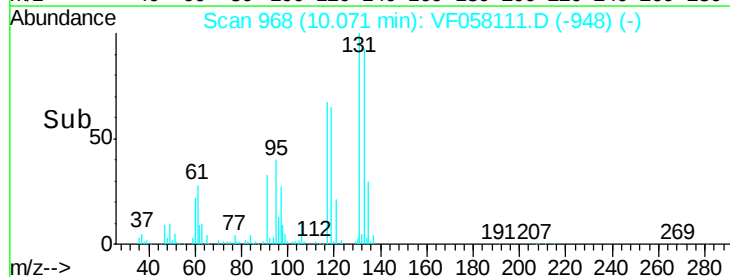
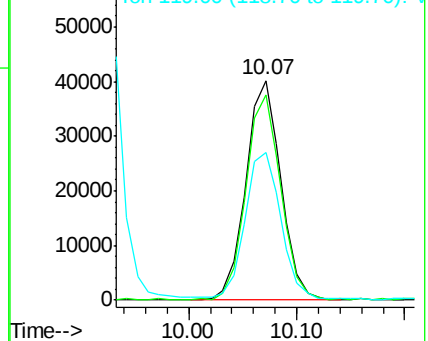
119 67.0 34.3 102.8

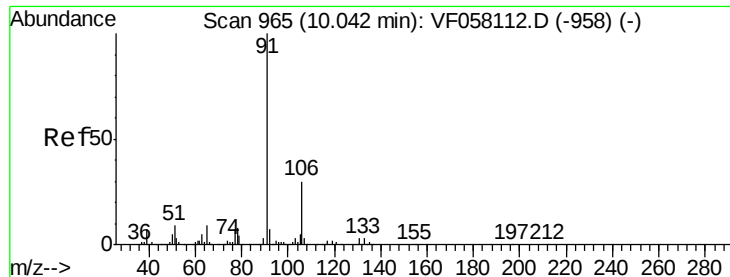


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 20.20 ug/l

RT: 10.04 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

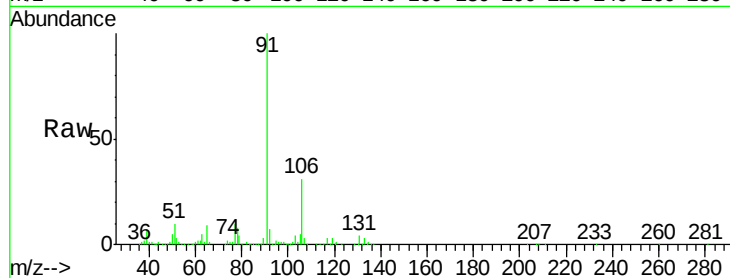
VSTDIC020

Tgt Ion: 91 Resp: 393524

Ion Ratio Lower Upper

91 100

106 31.1 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.04

200000

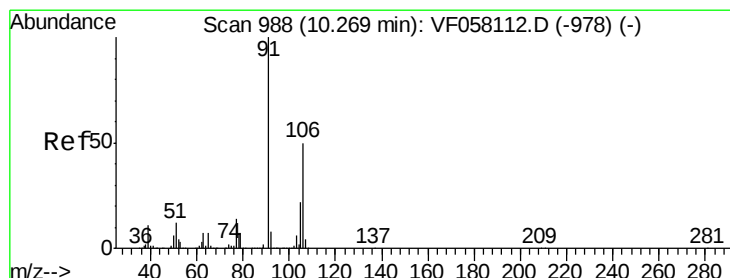
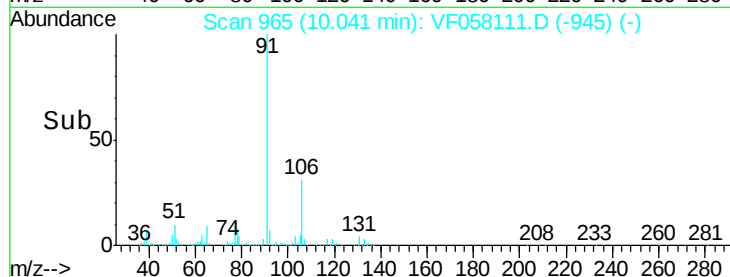
150000

100000

50000

0

Time--> 9.90 10.00 10.10 10.20



#68

m/p-Xylenes

Concen: 42.07 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF058111.D

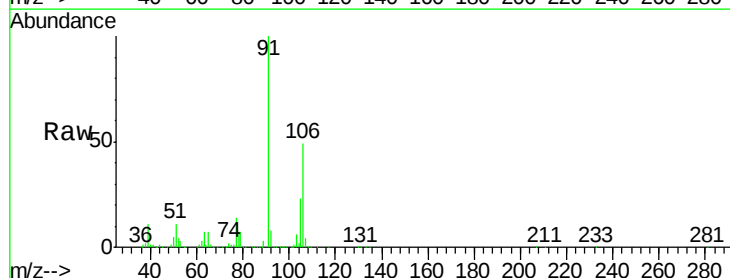
Acq: 6 Jun 2018 17:13

Tgt Ion: 106 Resp: 303826

Ion Ratio Lower Upper

106 100

91 206.0 160.7 241.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

10.27

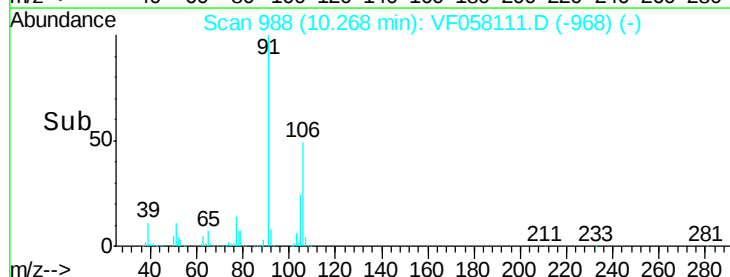
300000

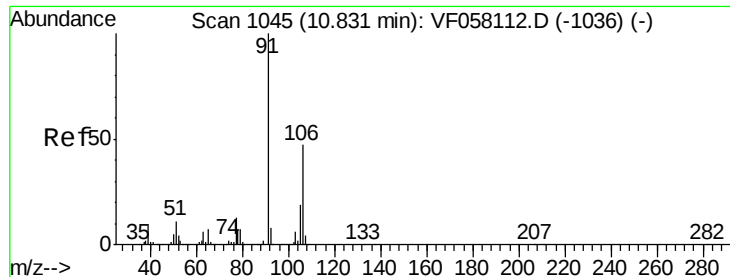
200000

100000

0

Time--> 10.10 10.20 10.30 10.40

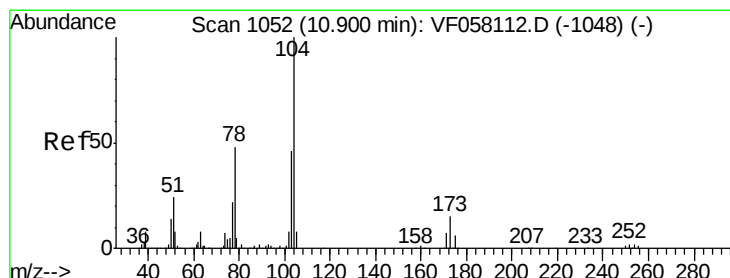
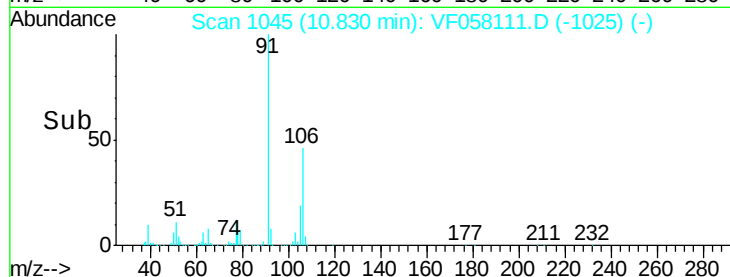
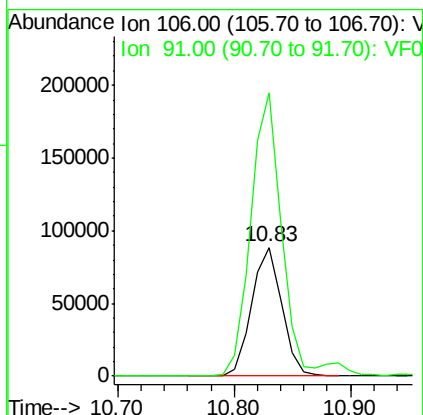
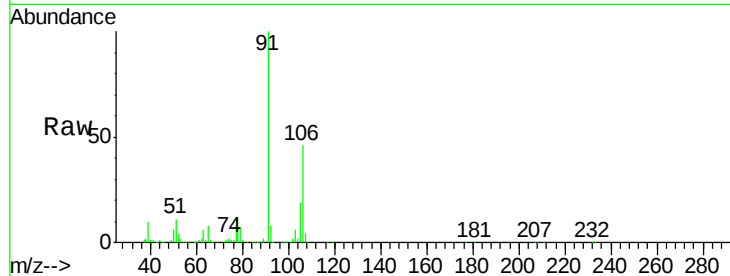




#69
o-Xylene
Concen: 20.32 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

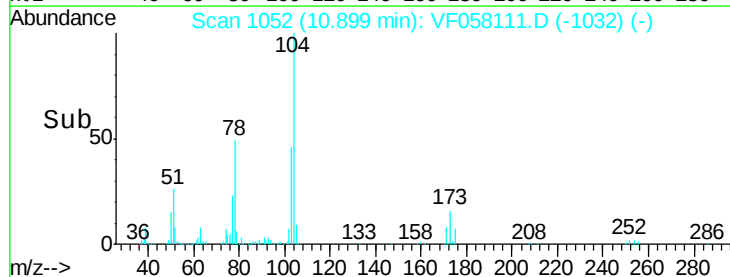
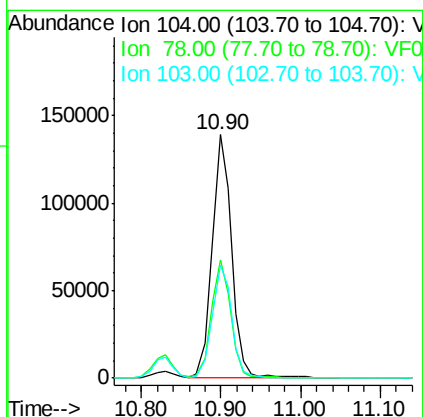
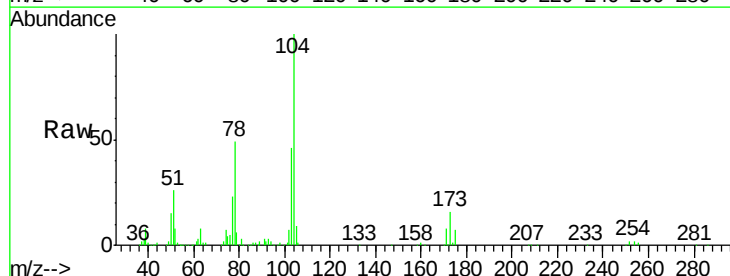
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

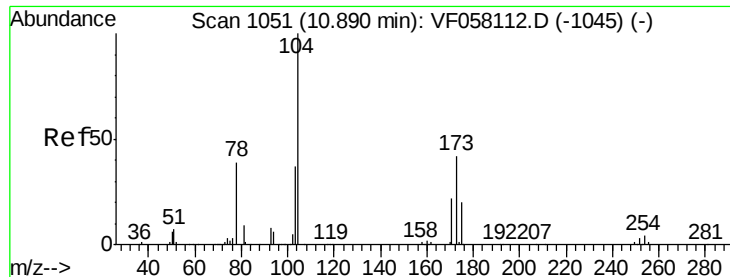
Tgt Ion:106 Resp: 159797
Ion Ratio Lower Upper
106 100
91 219.5 107.0 321.0



#70
Styrene
Concen: 20.34 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Tgt Ion:104 Resp: 239908
Ion Ratio Lower Upper
104 100
78 48.7 38.4 57.6
103 46.2 37.0 55.6





#71

Bromoform

Concen: 19.94 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

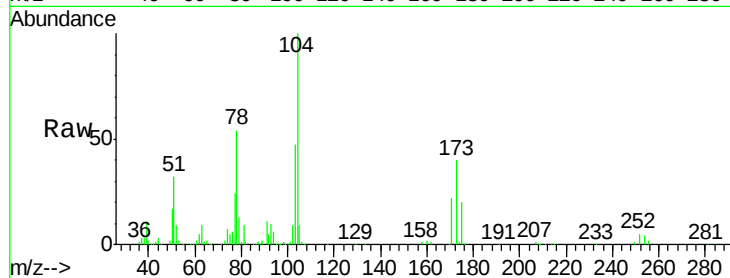
Tgt Ion:173 Resp: 59397

Ion Ratio Lower Upper

173 100

175 50.6 24.6 74.0

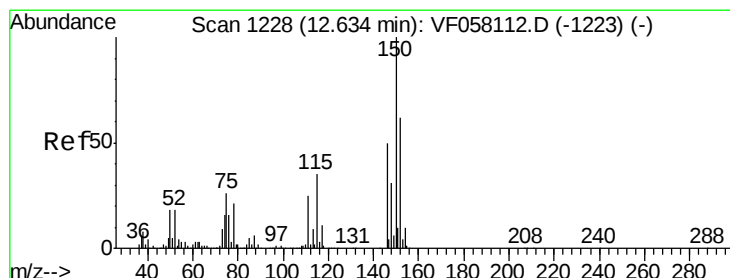
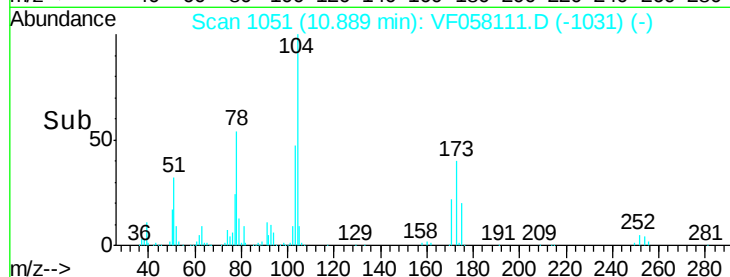
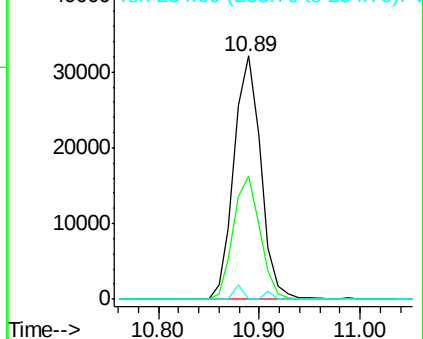
254 0.0 7.8 11.8#



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# 1228

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

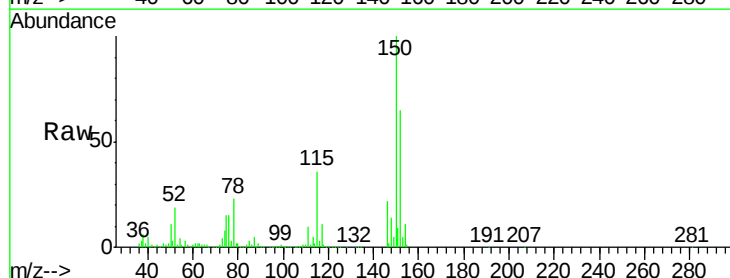
Tgt Ion:152 Resp: 317684

Ion Ratio Lower Upper

152 100

115 55.7 28.5 85.5

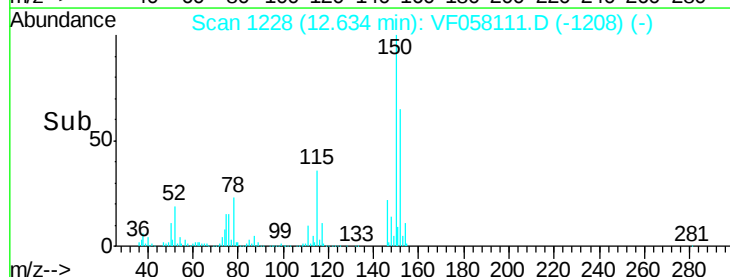
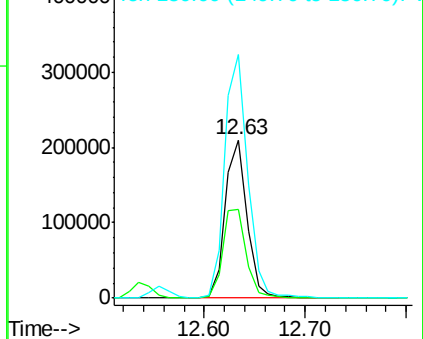
150 153.9 0.0 323.8

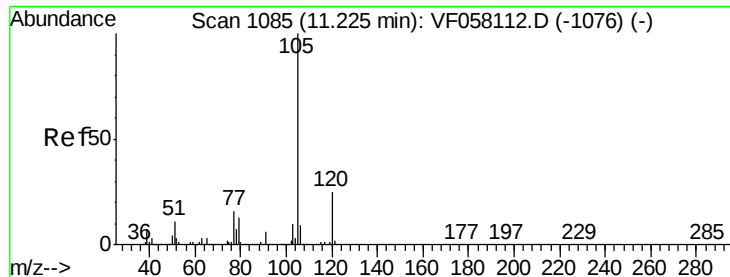


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 20.53 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

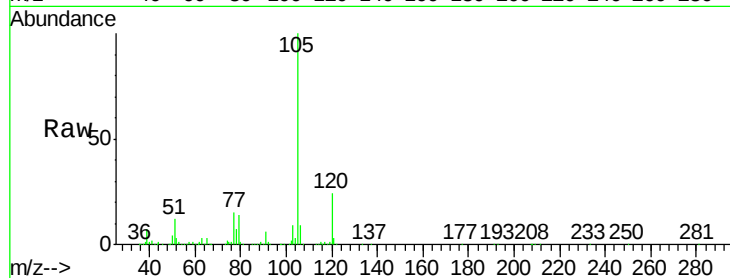
VSTDIC020

Tgt Ion:105 Resp: 463058

Ion Ratio Lower Upper

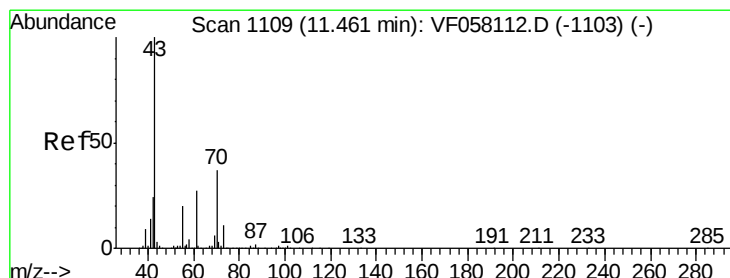
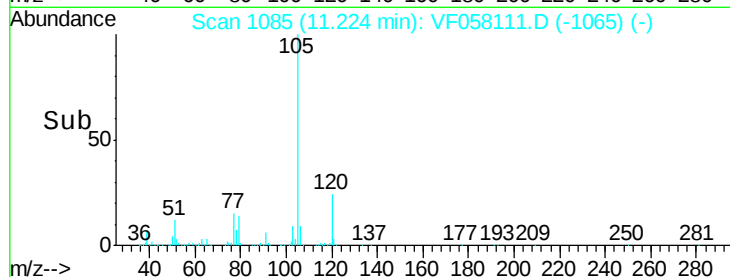
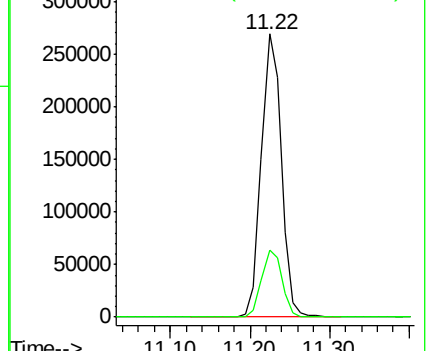
105 100

120 23.5 12.7 38.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.73 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Tgt Ion: 43 Resp: 165990

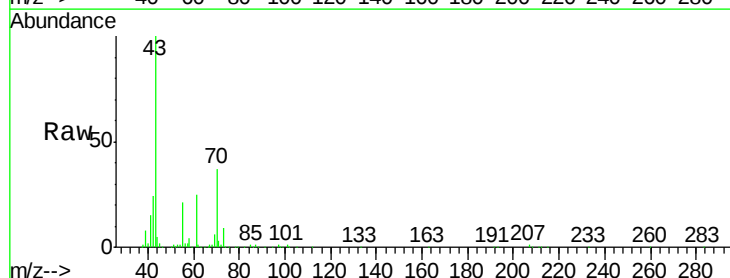
Ion Ratio Lower Upper

43 100

70 36.5 29.2 43.8

55 21.3 15.8 23.6

61 25.1 21.3 31.9

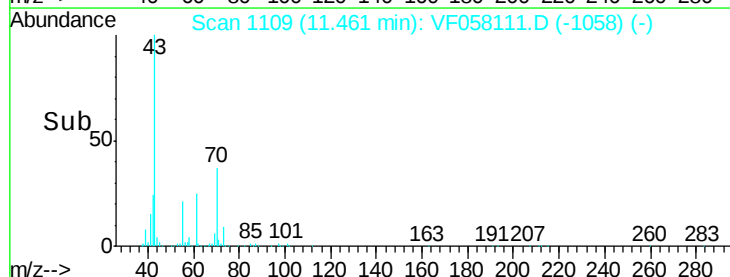
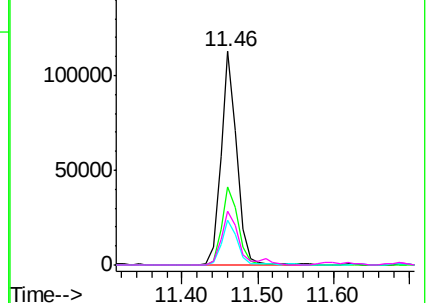


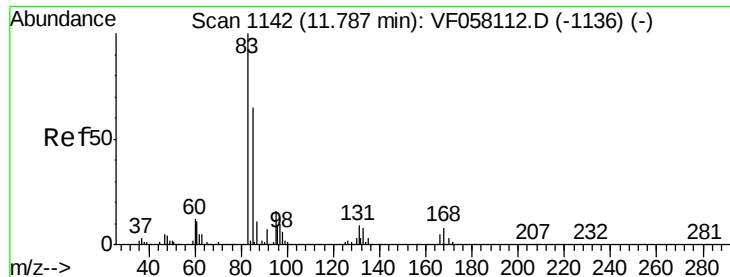
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.91 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

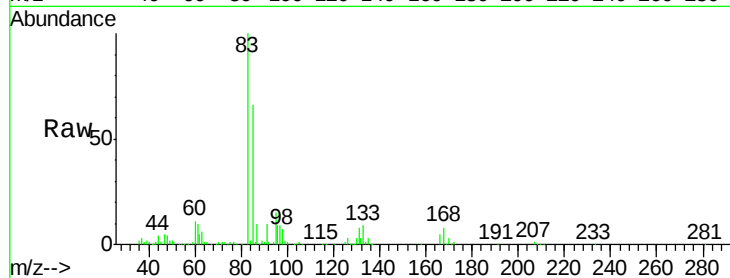
Tgt Ion: 83 Resp: 107622

Ion Ratio Lower Upper

83 100

131 8.1 4.5 13.7

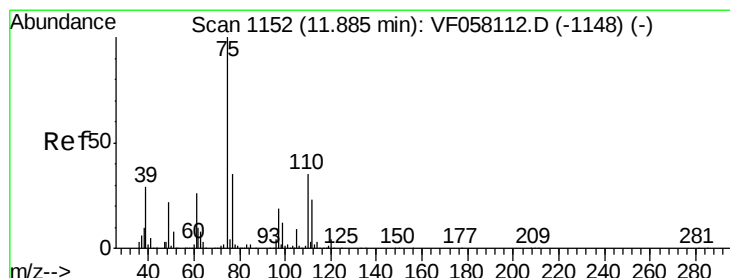
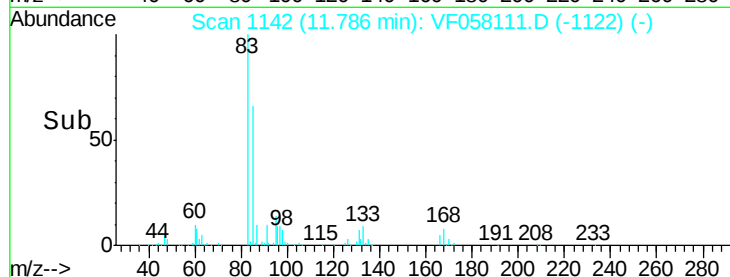
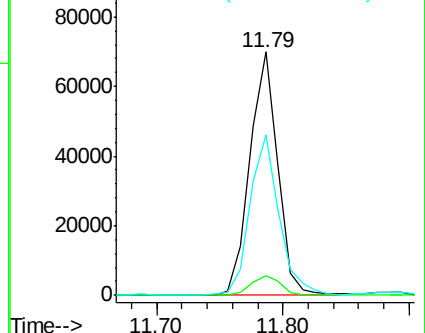
85 65.9 32.8 98.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.94 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF058111.D

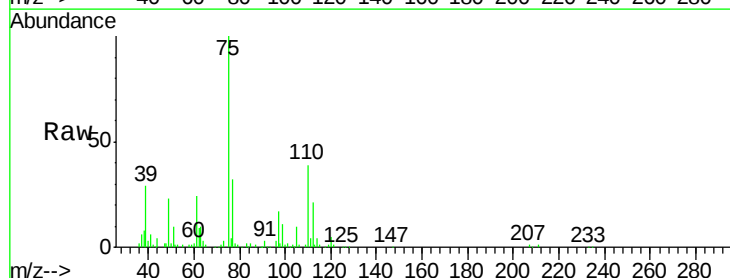
Acq: 6 Jun 2018 17:13

Tgt Ion: 75 Resp: 78631

Ion Ratio Lower Upper

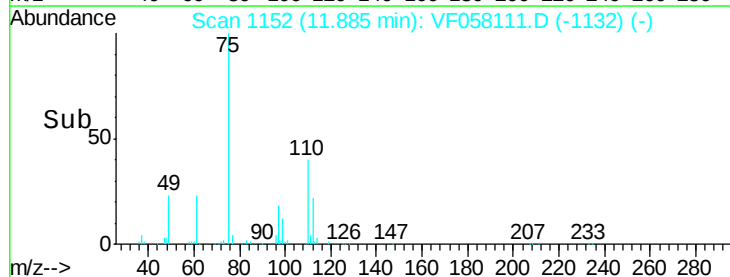
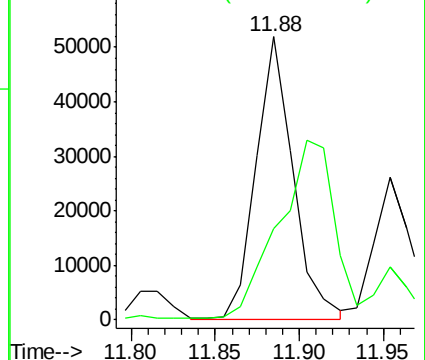
75 100

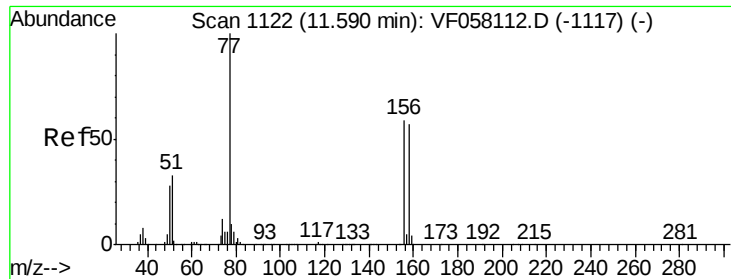
77 32.5 17.5 52.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.36 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

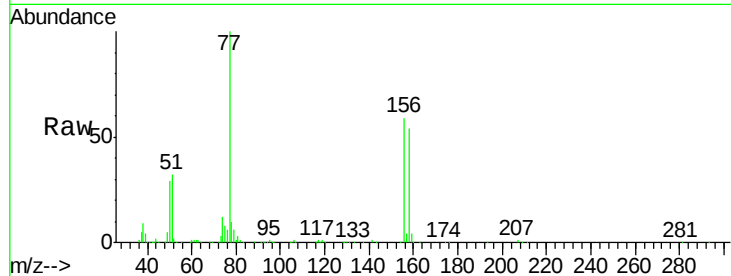
Tgt Ion:156 Resp: 114485

Ion Ratio Lower Upper

156 100

77 169.7 84.8 254.4

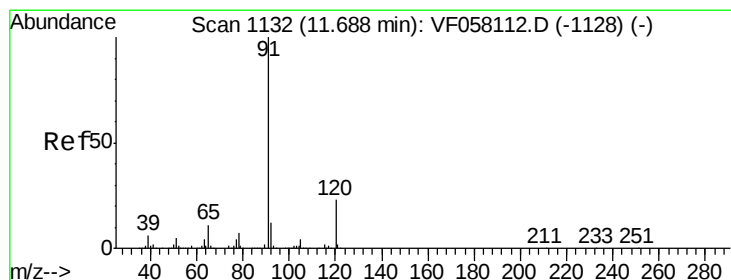
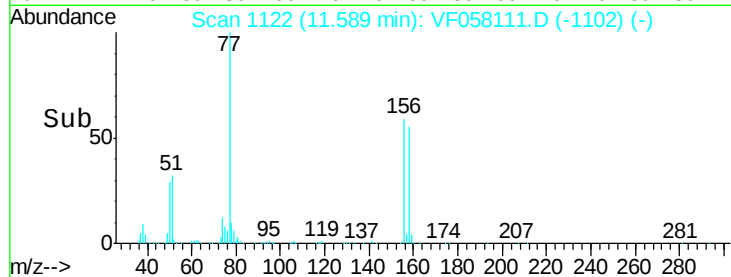
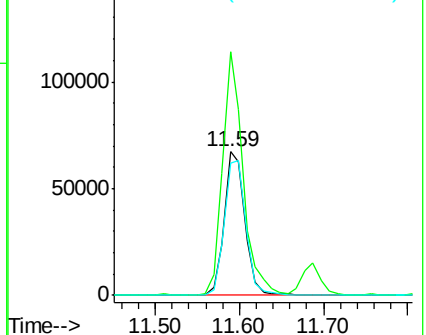
158 92.5 47.9 143.7



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: 20.16 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF058111.D

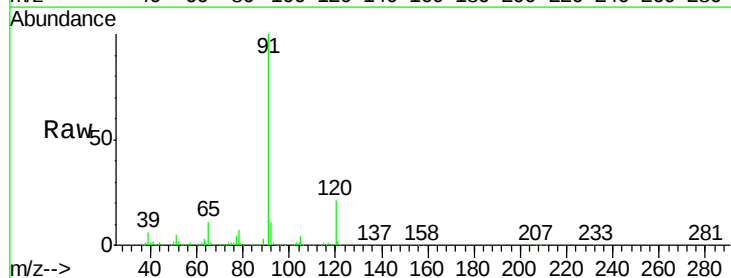
Acq: 6 Jun 2018 17:13

Tgt Ion: 91 Resp: 543490

Ion Ratio Lower Upper

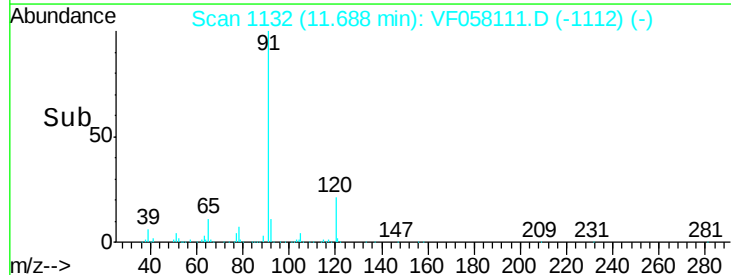
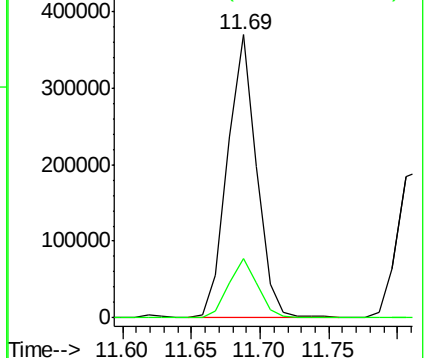
91 100

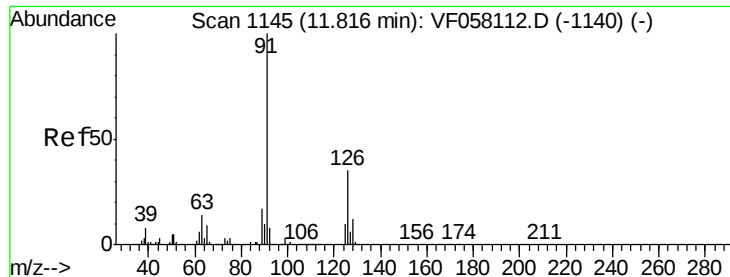
120 20.9 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.19 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

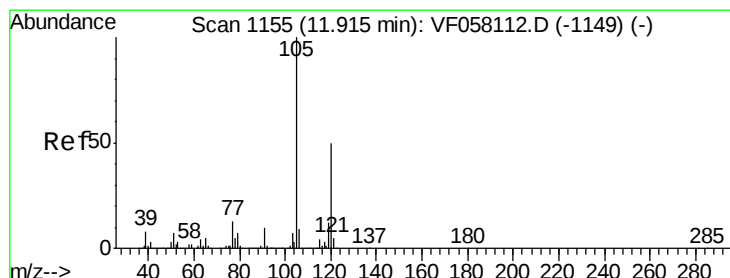
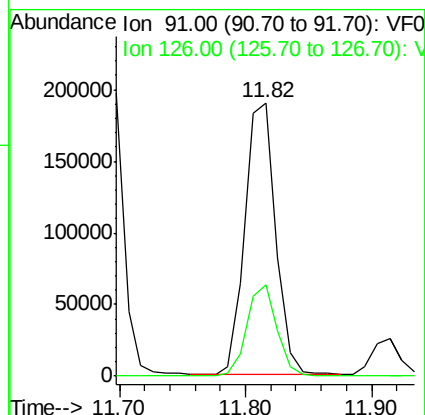
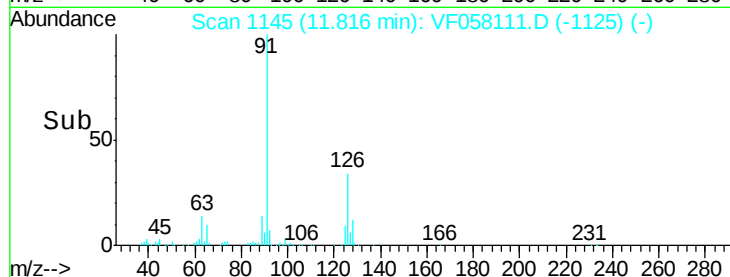
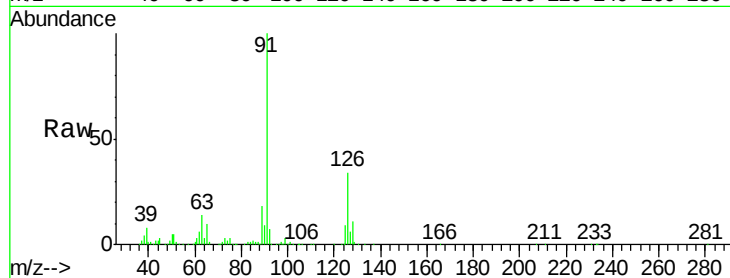
VSTDIC020

Tgt Ion: 91 Resp: 321549

Ion Ratio Lower Upper

91 100

126 33.6 17.6 52.9



#80

1,3,5-Trimethylbenzene

Concen: 20.37 ug/l

RT: 11.91 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VF058111.D

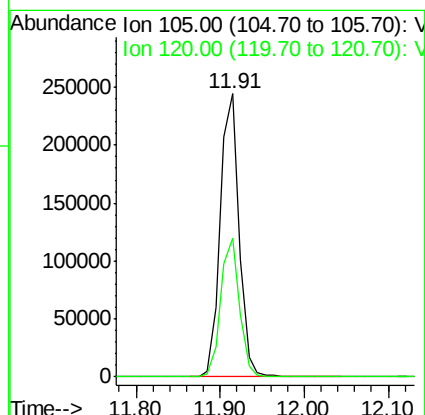
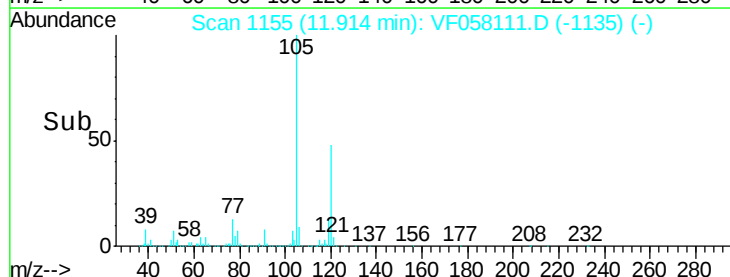
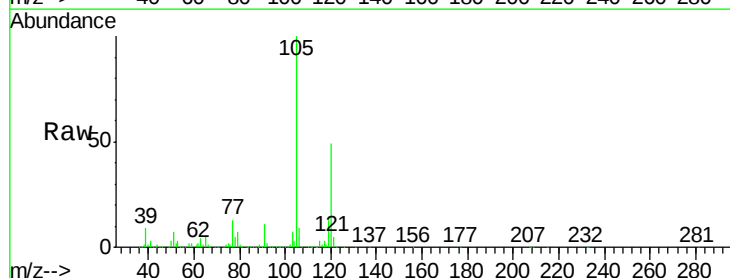
Acq: 6 Jun 2018 17:13

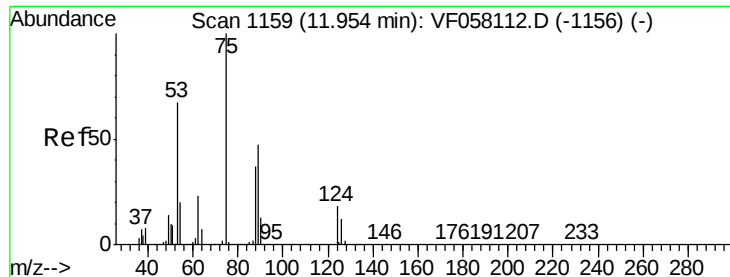
Tgt Ion: 105 Resp: 380897

Ion Ratio Lower Upper

105 100

120 48.8 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 20.14 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

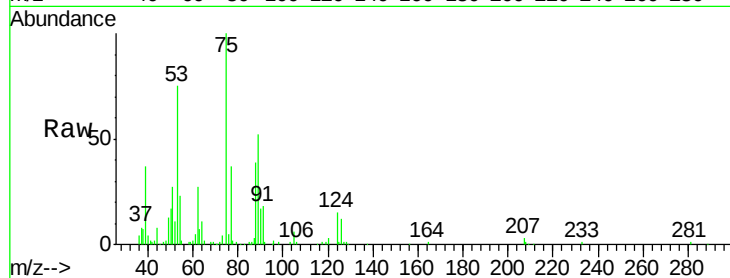
Tgt Ion: 75 Resp: 50292

Ion Ratio Lower Upper

75 100

53 74.5 58.7 88.1

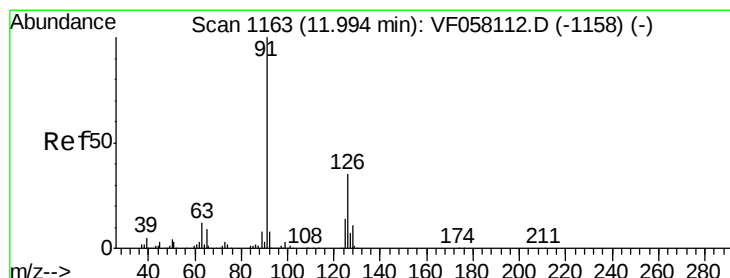
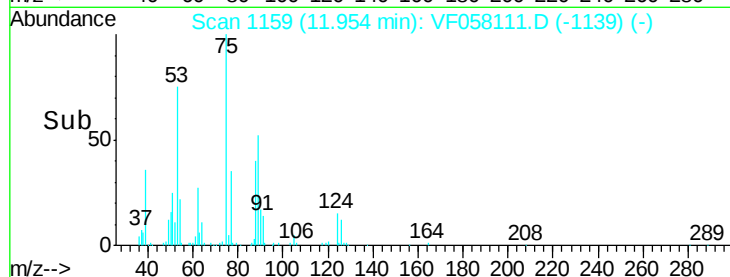
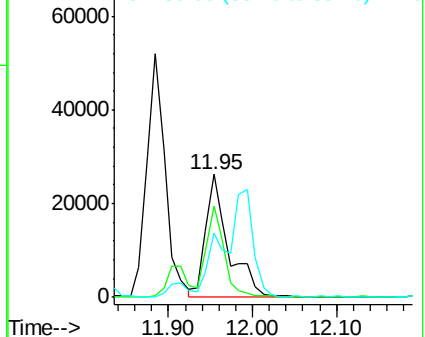
89 52.3 39.8 59.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 20.37 ug/l

RT: 11.99 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VF058111.D

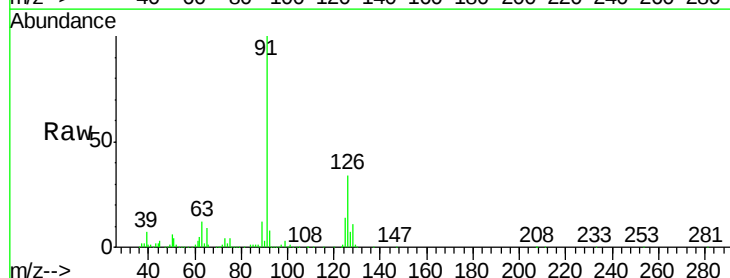
Acq: 6 Jun 2018 17:13

Tgt Ion: 91 Resp: 342123

Ion Ratio Lower Upper

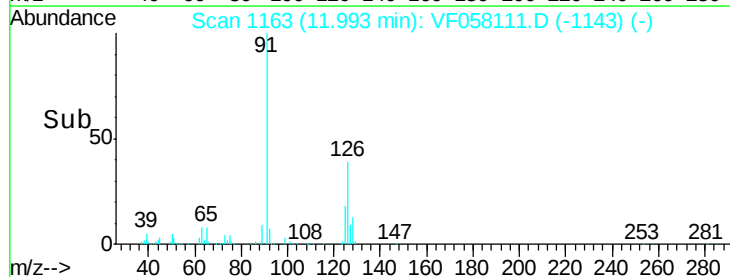
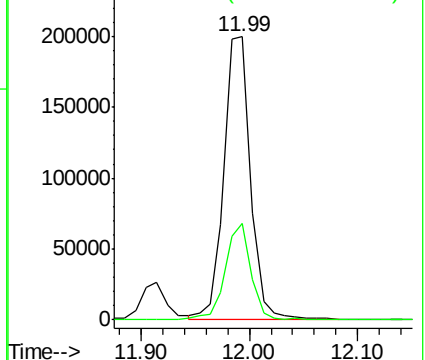
91 100

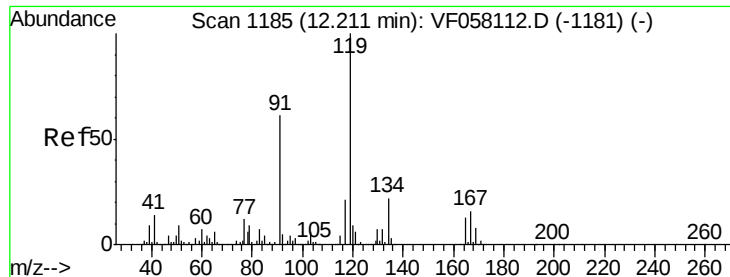
126 34.0 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 20.88 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

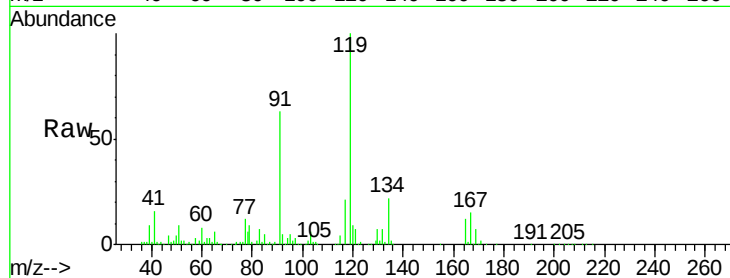
Tgt Ion:119 Resp: 390627

Ion Ratio Lower Upper

119 100

91 62.8 30.4 91.3

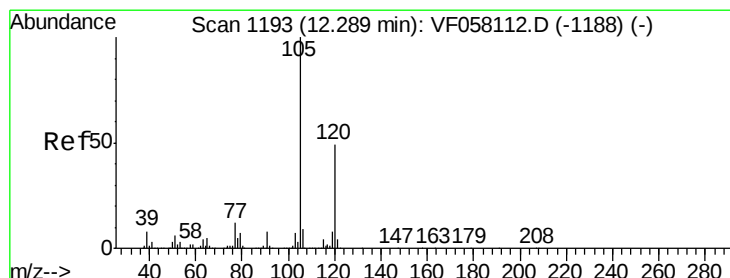
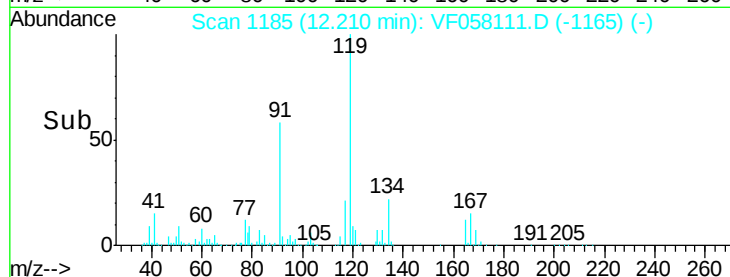
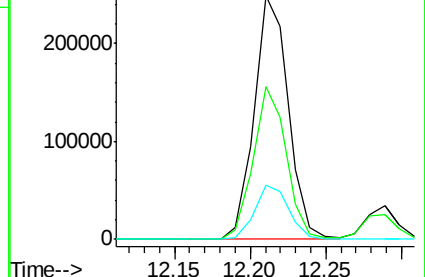
134 22.0 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.20 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. -0.00 min

Lab File: VF058111.D

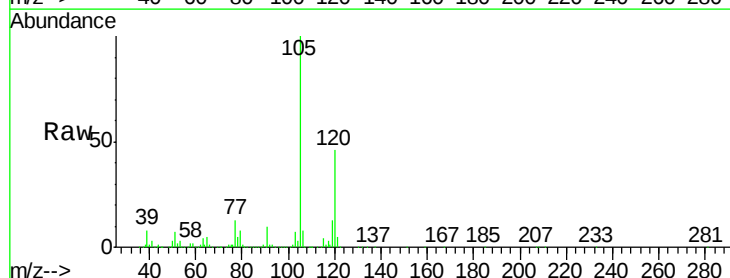
Acq: 6 Jun 2018 17:13

Tgt Ion:105 Resp: 391994

Ion Ratio Lower Upper

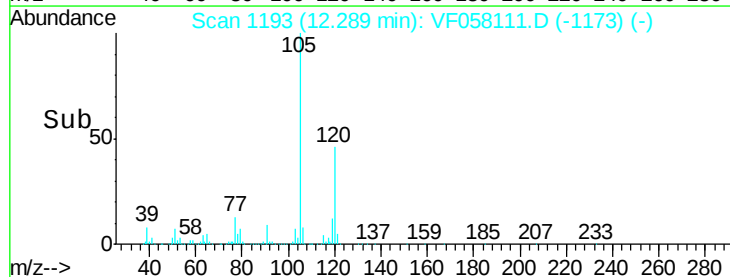
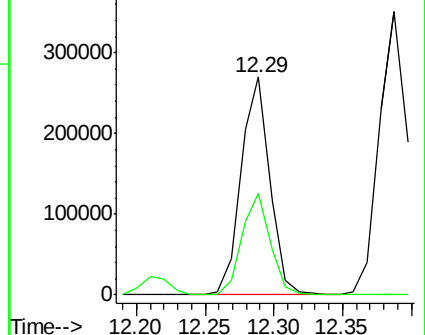
105 100

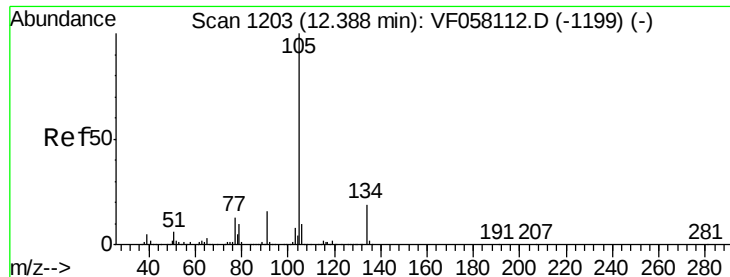
120 46.5 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

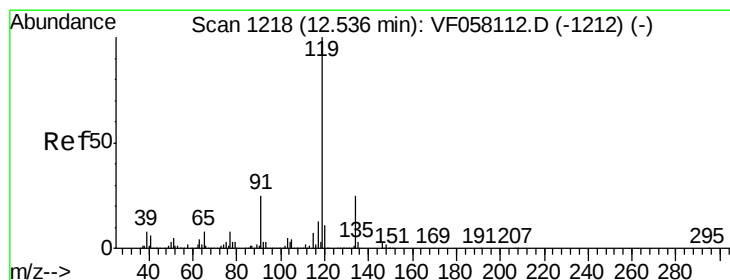
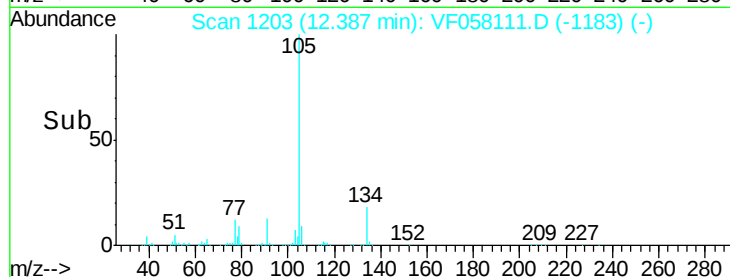
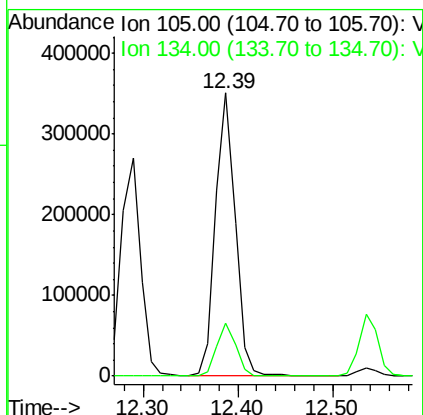
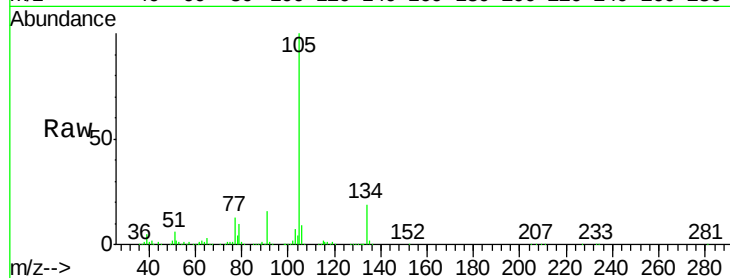




#85
 sec-Butylbenzene
 Concen: 20.08 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: VF058111.D
 Acq: 6 Jun 2018 17:13

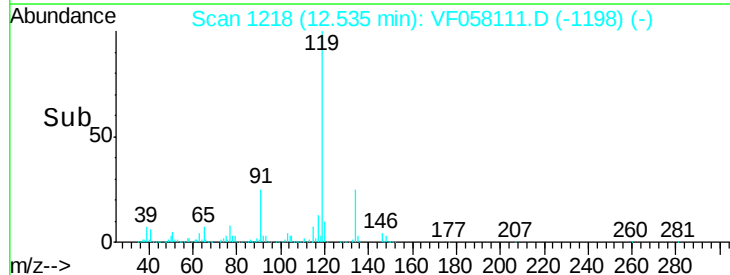
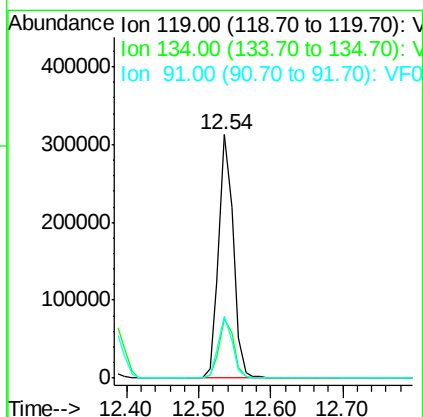
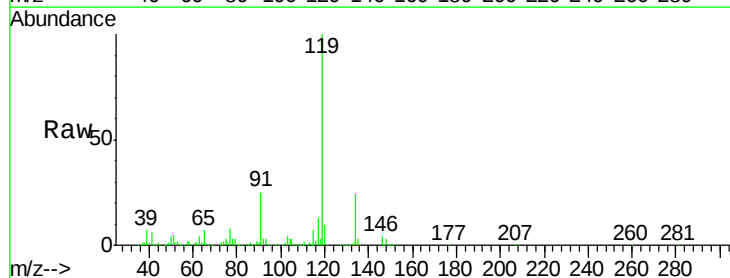
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

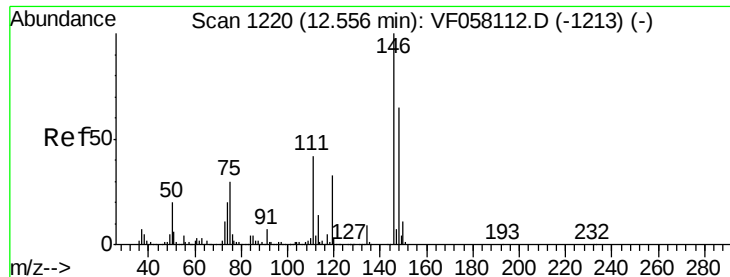
Tgt Ion:105 Resp: 508811
 Ion Ratio Lower Upper
 105 100
 134 18.5 9.6 28.6



#86
 p-Isopropyltoluene
 Concen: 20.49 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VF058111.D
 Acq: 6 Jun 2018 17:13

Tgt Ion:119 Resp: 432730
 Ion Ratio Lower Upper
 119 100
 134 24.5 12.7 38.0
 91 25.3 12.6 37.6

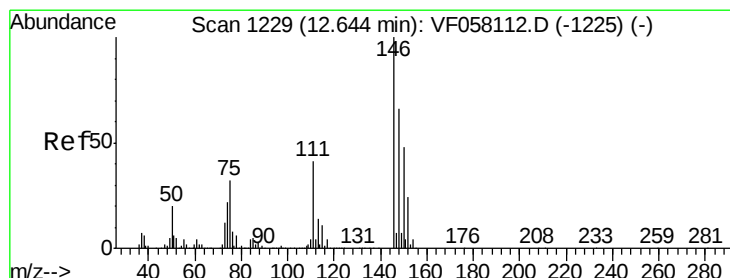
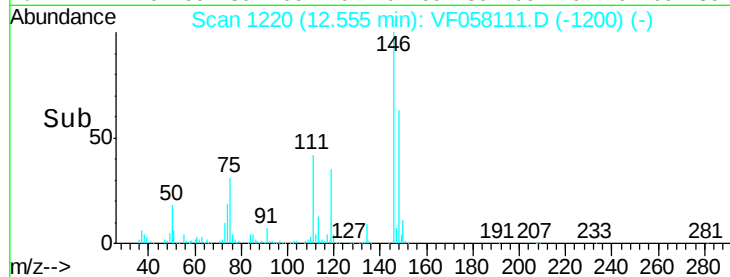
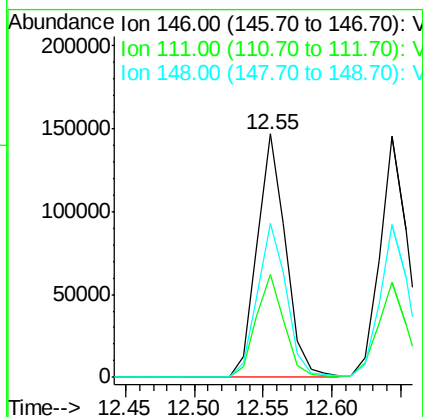
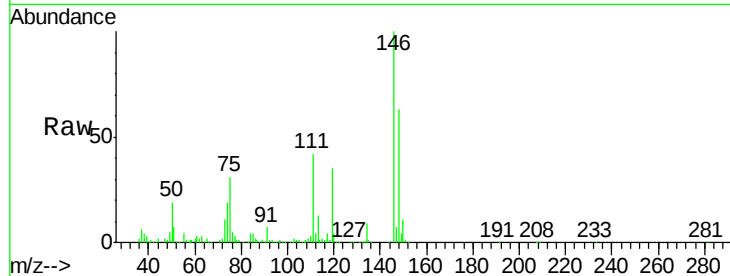




#87
 1,3-Dichlorobenzene
 Concen: 20.59 ug/l
 RT: 12.55 min Scan# 1220
 Delta R.T. -0.00 min
 Lab File: VF058111.D
 Acq: 6 Jun 2018 17:13

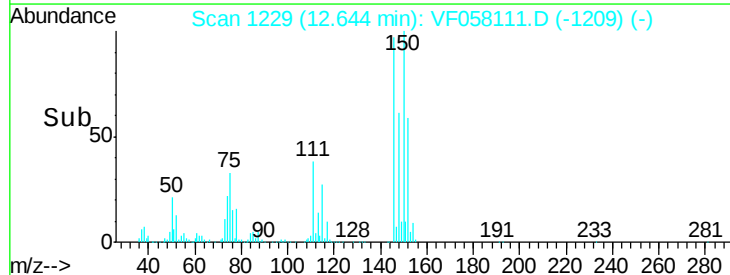
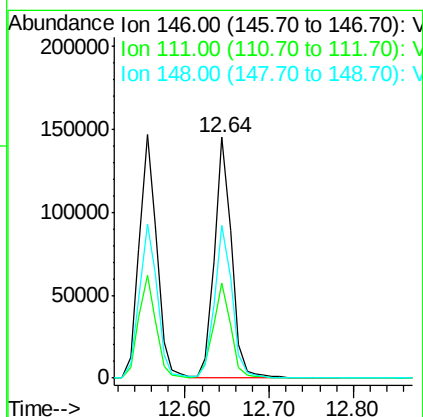
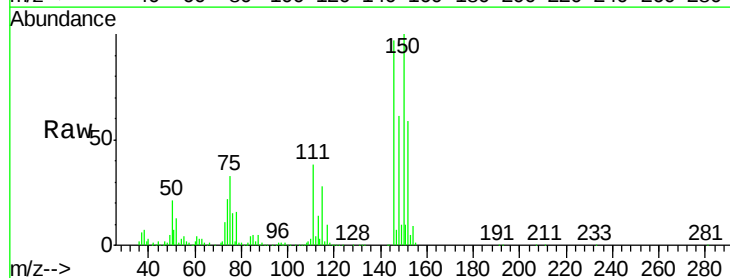
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

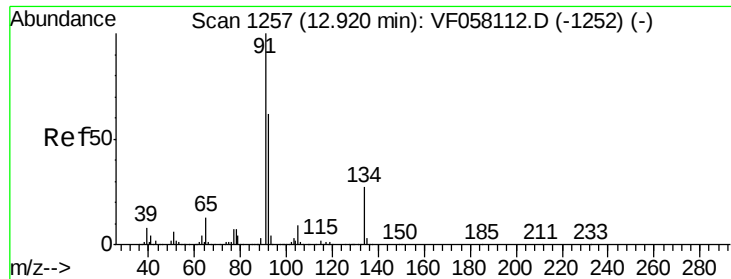
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.8	62.5
148	63.5	32.3	96.9



#88
 1,4-Dichlorobenzene
 Concen: 20.71 ug/l
 RT: 12.64 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VF058111.D
 Acq: 6 Jun 2018 17:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.4	61.2
148	63.3	33.0	99.0





#89

n-Butylbenzene

Concen: 21.25 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VF058111.D

Acq: 6 Jun 2018 17:13

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

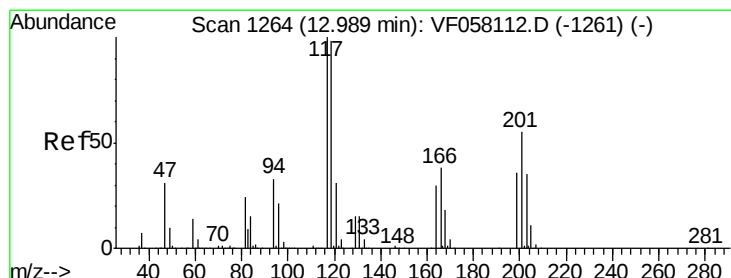
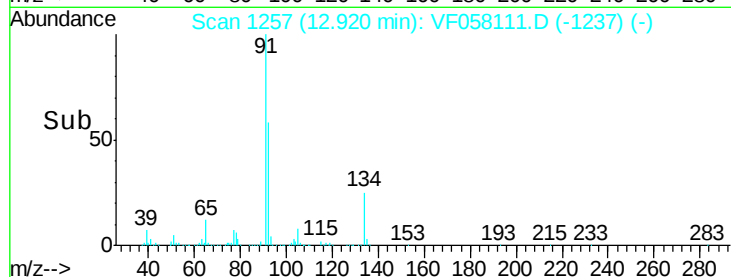
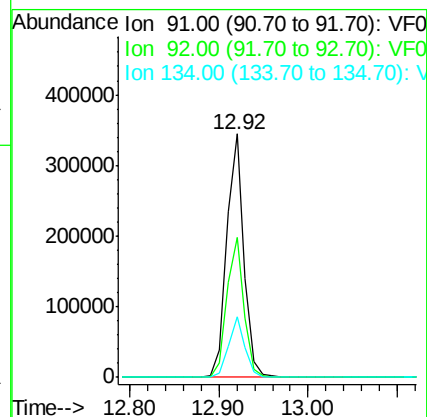
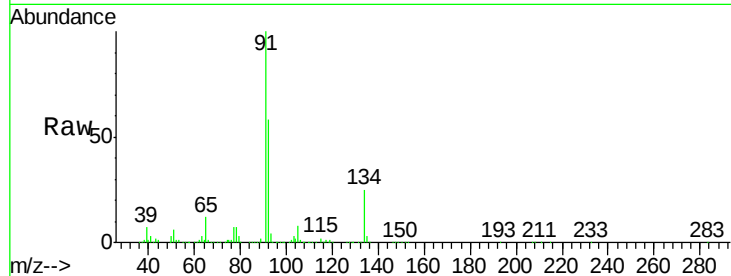
Tgt Ion: 91 Resp: 467807

Ion Ratio Lower Upper

91 100

92 57.6 31.1 93.5

134 25.1 13.6 40.8



#90

Hexachloroethane

Concen: 20.71 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VF058111.D

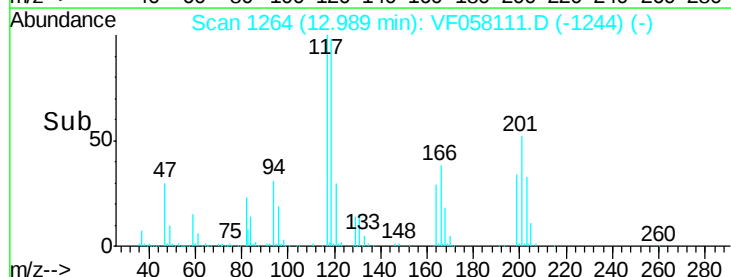
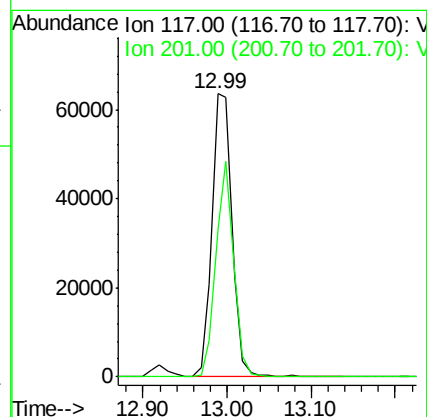
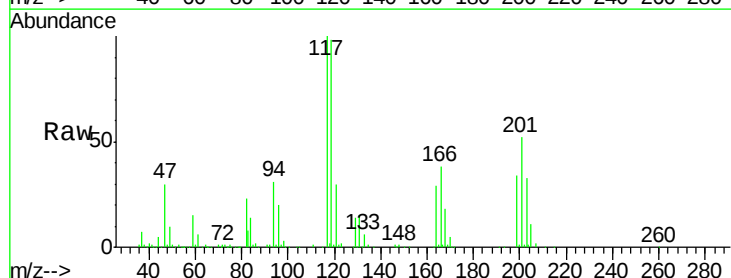
Acq: 6 Jun 2018 17:13

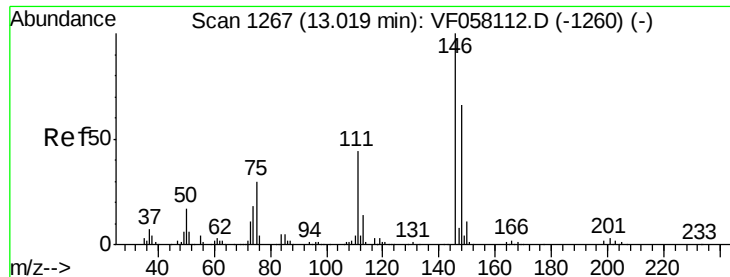
Tgt Ion: 117 Resp: 105478

Ion Ratio Lower Upper

117 100

201 52.0 27.5 82.4

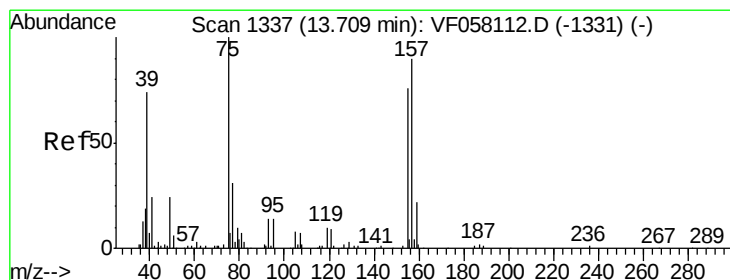
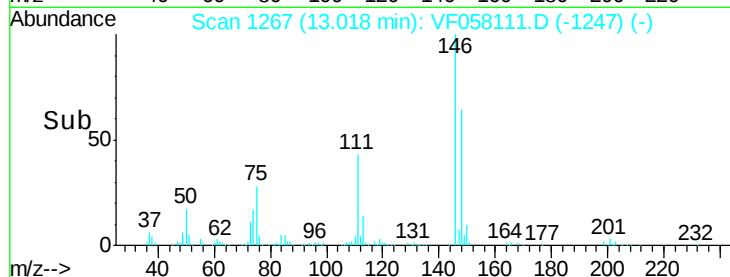
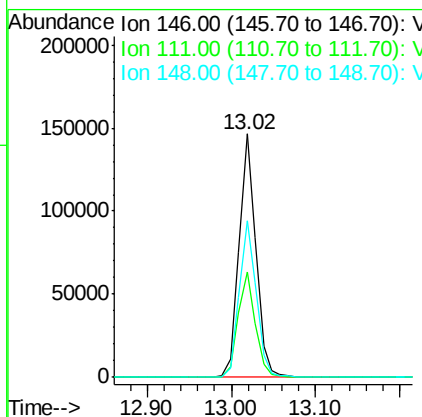
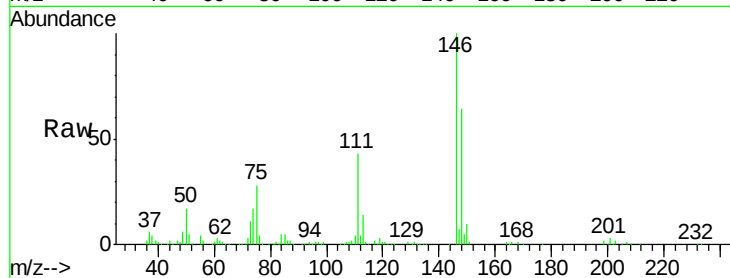




#91
 1,2-Dichlorobenzene
 Concen: 20.32 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VF058111.D
 Acq: 6 Jun 2018 17:13

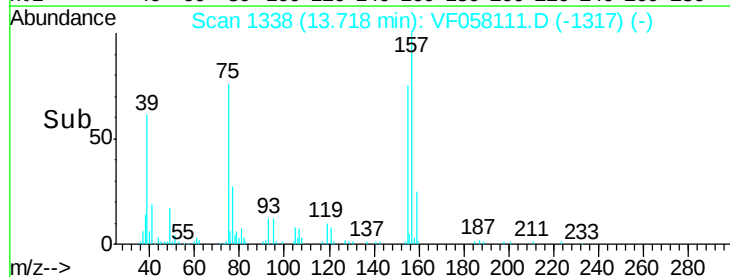
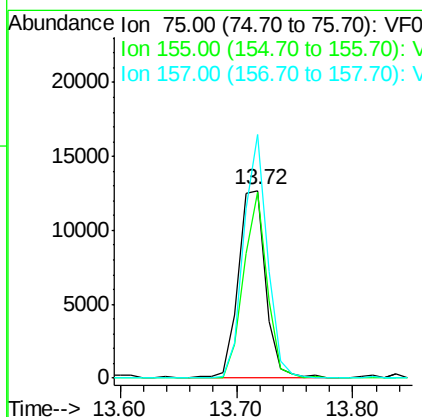
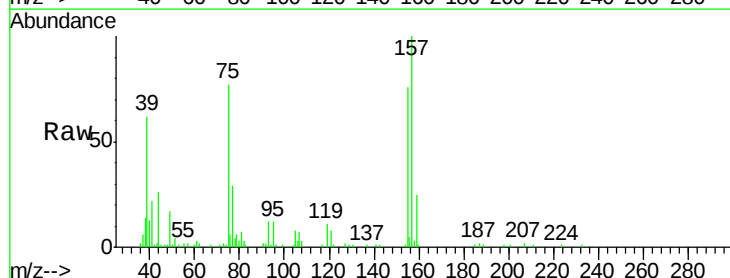
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

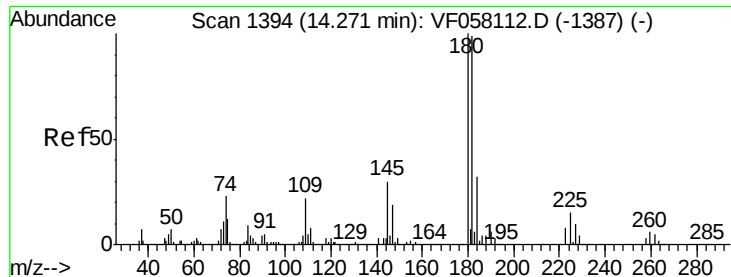
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	22.0	66.0
148	64.2	33.1	99.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.24 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. 0.01 min
 Lab File: VF058111.D
 Acq: 6 Jun 2018 17:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.8	38.0	114.0
157	129.7	45.1	135.5

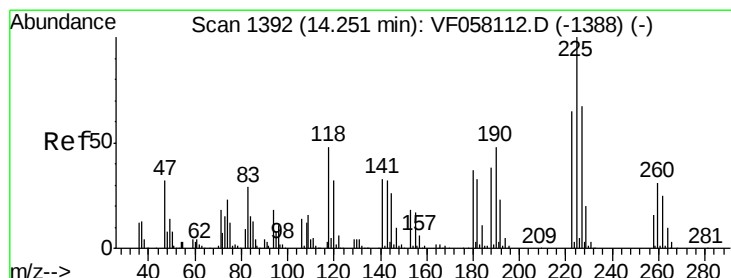
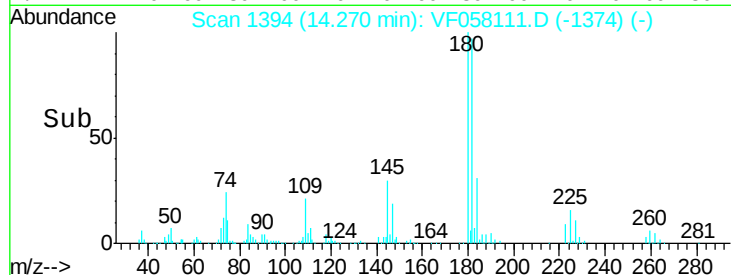
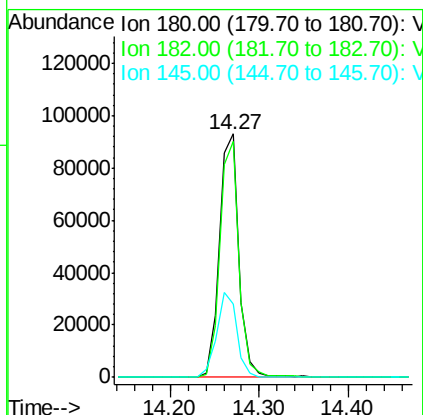
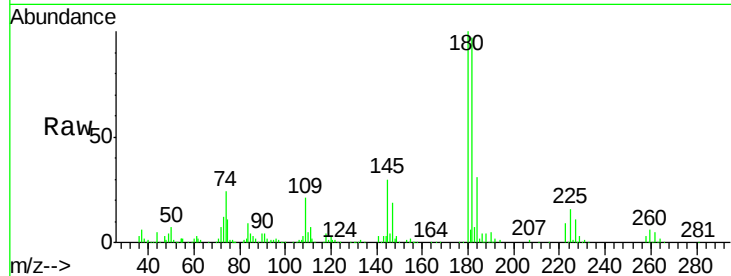




#93
 1,2,4-Trichlorobenzene
 Concen: 20.46 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF058111.D
 Acq: 6 Jun 2018 17:13

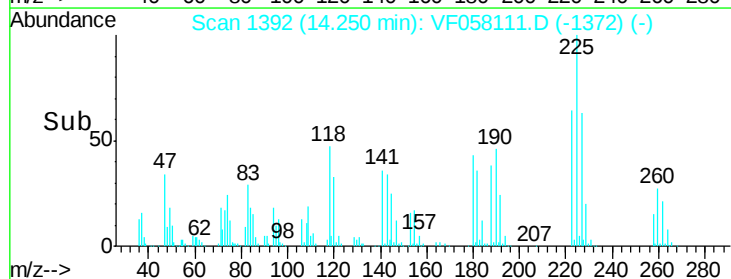
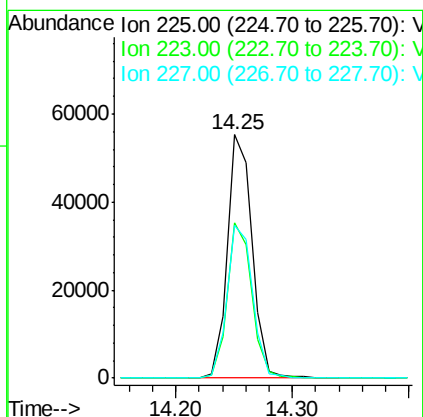
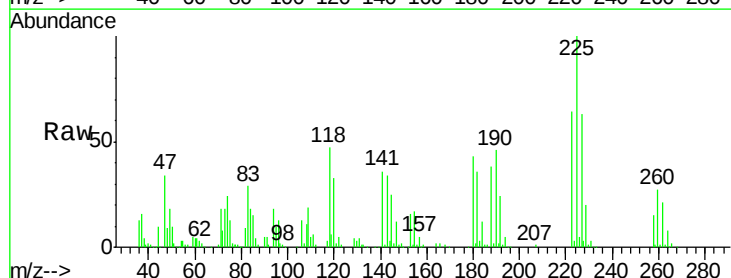
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

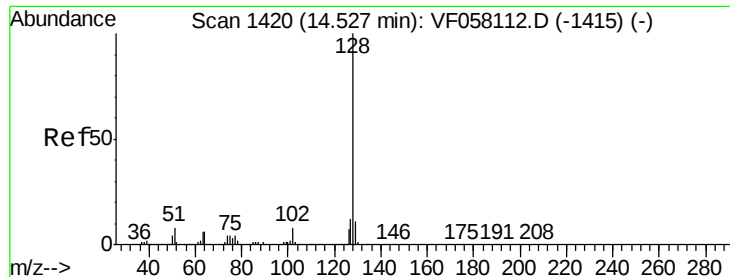
Tgt Ion:180 Resp: 144372
 Ion Ratio Lower Upper
 180 100
 182 96.7 49.3 147.9
 145 29.9 14.9 44.9



#94
 Hexachlorobutadiene
 Concen: 19.96 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VF058111.D
 Acq: 6 Jun 2018 17:13

Tgt Ion:225 Resp: 81317
 Ion Ratio Lower Upper
 225 100
 223 63.6 32.8 98.3
 227 63.0 33.3 99.9

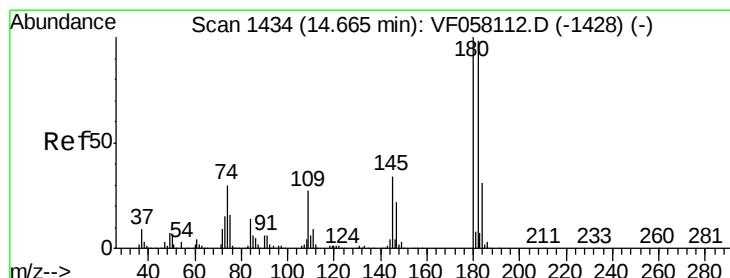
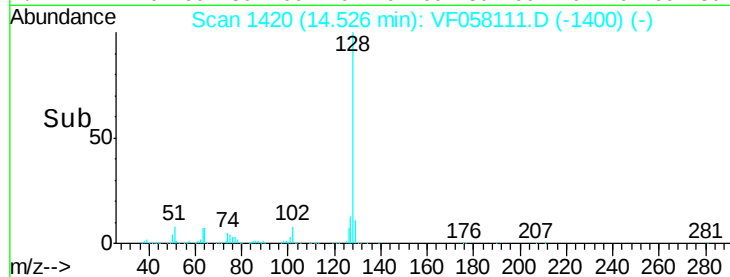
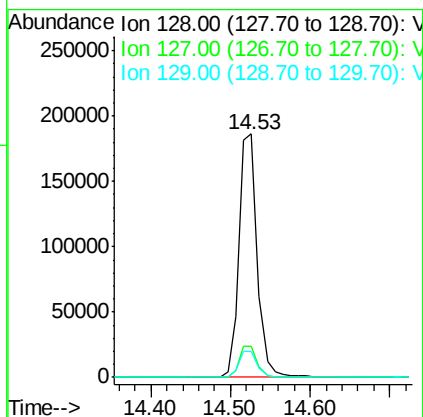
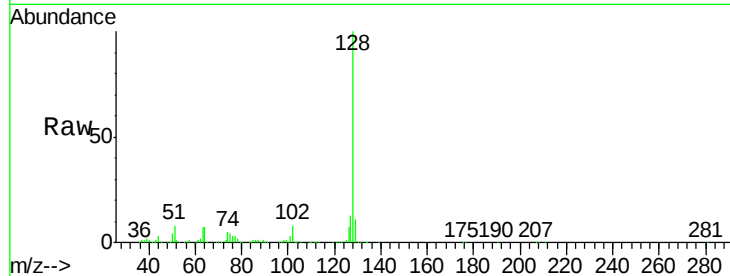




#95
Naphthalene
Concen: 19.86 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion:128 Resp: 299201
Ion Ratio Lower Upper
128 100
127 12.6 9.9 14.9
129 10.9 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 20.20 ug/l
RT: 14.66 min Scan# 1434
Delta R.T. -0.00 min
Lab File: VF058111.D
Acq: 6 Jun 2018 17:13

Tgt Ion:180 Resp: 134317
Ion Ratio Lower Upper
180 100
182 95.4 48.9 146.6
145 34.7 17.3 51.7

