

Data File : VF059302.D
Acq On : 25 Jun 2018 15:18
Operator : VA/AP
Sample : VSTDIC010
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Quant Time: Jun 26 07:58:06 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 07:57:09 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	284473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	442809	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	441215	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	281892	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	38831	9.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	19.36%	
35) Dibromofluoromethane	4.28	113	33891	9.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.64%	
50) Toluene-d8	7.70	98	81950	8.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	17.80%	
62) 4-Bromofluorobenzene	11.50	95	46705	9.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.30%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	0.98	85	27480	8.552	ug/l	94
3) Chloromethane	1.08	50	17038	8.414	ug/l	99
4) Vinyl Chloride	1.14	62	19136	9.546	ug/l	93
5) Bromomethane	1.33	94	12303	8.997	ug/l	96
6) Chloroethane	1.42	64	8804	8.971	ug/l	94
7) Trichlorofluoromethane	1.48	101	19890	5.069	ug/l #	83
8) Diethyl Ether	1.69	74	9383	10.324	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.90	101	21100	9.511	ug/l	100
10) Methyl Iodide	1.96	142	38063	9.355	ug/l #	94
11) Tert butyl alcohol	2.68	59	14562	59.772	ug/l #	87
12) 1,1-Dichloroethene	1.84	96	17913	9.019	ug/l	82
13) Acrolein	2.08	56	8391	43.201	ug/l	88
14) Allyl chloride	2.18	41	31866	8.672	ug/l	91
15) Acrylonitrile	3.06	53	21351	42.368	ug/l	90
16) Acetone	2.33	43	56051	57.270	ug/l	94
17) Carbon Disulfide	1.83	76	39252	8.211	ug/l	98
18) Methyl Acetate	2.44	43	18720	10.148	ug/l	98
19) Methyl tert-butyl Ether	2.53	73	70205	10.499	ug/l	97
20) Methylene Chloride	2.27	84	22451	10.520	ug/l	88
21) trans-1,2-Dichloroethene	2.40	96	18383	9.002	ug/l	95
22) Diisopropyl ether	2.92	45	70952	9.289	ug/l	96
23) Vinyl Acetate	3.32	43	248615	50.809	ug/l	100
24) 1,1-Dichloroethane	2.99	63	45321	9.188	ug/l	98
25) 2-Butanone	4.50	43	63347	49.588	ug/l	95
26) 2,2-Dichloropropane	3.75	77	33445	9.782	ug/l	90
27) cis-1,2-Dichloroethene	3.63	96	28557	9.179	ug/l	79
28) Bromochloromethane	3.87	49	23666	11.483	ug/l	87
29) Tetrahydrofuran	4.24	42	29203	51.008	ug/l	95
30) Chloroform	4.03	83	65637	9.207	ug/l	96
31) Cyclohexane	3.85	56	31971	9.566	ug/l	94
32) 1,1,1-Trichloroethane	4.27	97	49728	9.300	ug/l	98
36) 1,1-Dichloropropene	4.44	75	38668	8.626	ug/l	95
37) Ethyl Acetate	4.28	43	26750	9.076	ug/l #	75
38) Carbon Tetrachloride	4.16	117	51756	9.359	ug/l	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	37148	9.216	ug/l	95
40) Benzene	4.80	78	91107	9.501	ug/l	98
41) Methacrylonitrile	4.90	41	12682	9.039	ug/l #	90
42) 1,2-Dichloroethane	5.10	62	51194	9.296	ug/l	94
43) Isopropyl Acetate	7.11	43	31858	8.983	ug/l #	80
44) Trichloroethene	5.67	130	32485	9.852	ug/l	86
45) 1,2-Dichloropropane	6.39	63	25807	9.282	ug/l	95
46) Dibromomethane	6.25	93	22322	9.355	ug/l #	88
47) Bromodichloromethane	6.53	83	51765	9.100	ug/l	97
48) Methyl methacrylate	6.86	41	21185	9.331	ug/l	93
49) 1,4-Dioxane	6.86	88	2621	197.015	ug/l #	76
51) 4-Methyl-2-Pentanone	8.40	43	126941	49.568	ug/l	98
52) Toluene	7.77	92	67777	9.138	ug/l	97
53) t-1,3-Dichloropropene	8.42	75	46058	8.668	ug/l	91
54) cis-1,3-Dichloropropene	7.44	75	50394	8.921	ug/l	98
55) 1,1,2-Trichloroethane	8.62	97	25210	8.795	ug/l	99
56) Ethyl methacrylate	8.75	69	30361	9.218	ug/l	91
57) 1,3-Dichloropropane	8.99	76	44590	9.406	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.77	63	11832	45.202	ug/l	100
59) 2-Hexanone	9.62	43	106108	51.797	ug/l	99
60) Dibromochloromethane	8.85	129	38019	8.964	ug/l	96
61) 1,2-Dibromoethane	9.13	107	29886	8.984	ug/l	100
64) Tetrachloroethene	8.30	164	30352	9.224	ug/l	95
65) Chlorobenzene	9.93	112	86031	9.439	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.06	131	38167	9.932	ug/l	97
67) Ethyl Benzene	10.02	91	149781	9.689	ug/l	93
68) m/p-Xylenes	10.26	106	108339	19.620	ug/l	96
69) o-Xylene	10.82	106	55073	8.999	ug/l	99
70) Styrene	10.89	104	87263	9.388	ug/l	99
71) Bromoform	10.88	173	24656	9.037	ug/l #	97
73) Isopropylbenzene	11.22	105	168162	8.943	ug/l	100
74) N-amyl acetate	11.45	43	61232	9.765	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.78	83	44649	9.918	ug/l	99
76) 1,2,3-Trichloropropane	11.88	75	33700	10.240	ug/l	92
77) Bromobenzene	11.59	156	46457	9.120	ug/l	80
78) n-propylbenzene	11.68	91	214703	9.699	ug/l	95
79) 2-Chlorotoluene	11.81	91	129087	9.689	ug/l	96
80) 1,3,5-Trimethylbenzene	11.91	105	149561	9.420	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.95	75	18488	8.889	ug/l #	89
82) 4-Chlorotoluene	11.99	91	134254	9.326	ug/l	100
83) tert-Butylbenzene	12.20	119	155734	9.713	ug/l	93
84) 1,2,4-Trimethylbenzene	12.28	105	158507	9.436	ug/l	99
85) sec-Butylbenzene	12.38	105	208898	9.700	ug/l	98
86) p-Isopropyltoluene	12.53	119	176796	10.008	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	93801	10.261	ug/l	97
88) 1,4-Dichlorobenzene	12.64	146	84777	9.418	ug/l	97
89) n-Butylbenzene	12.91	91	183476	10.219	ug/l	94
90) Hexachloroethane	12.99	117	41653	9.363	ug/l	98
91) 1,2-Dichlorobenzene	13.01	146	87570	9.552	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	9736	10.015	ug/l	75

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF062518\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	65643	9.877	ug/l	95
94) Hexachlorobutadiene	14.25	225	36999	9.512	ug/l	92
95) Naphthalene	14.52	128	123656	9.026	ug/l	98
96) 1,2,3-Trichlorobenzene	14.67	180	60052	9.606	ug/l	96

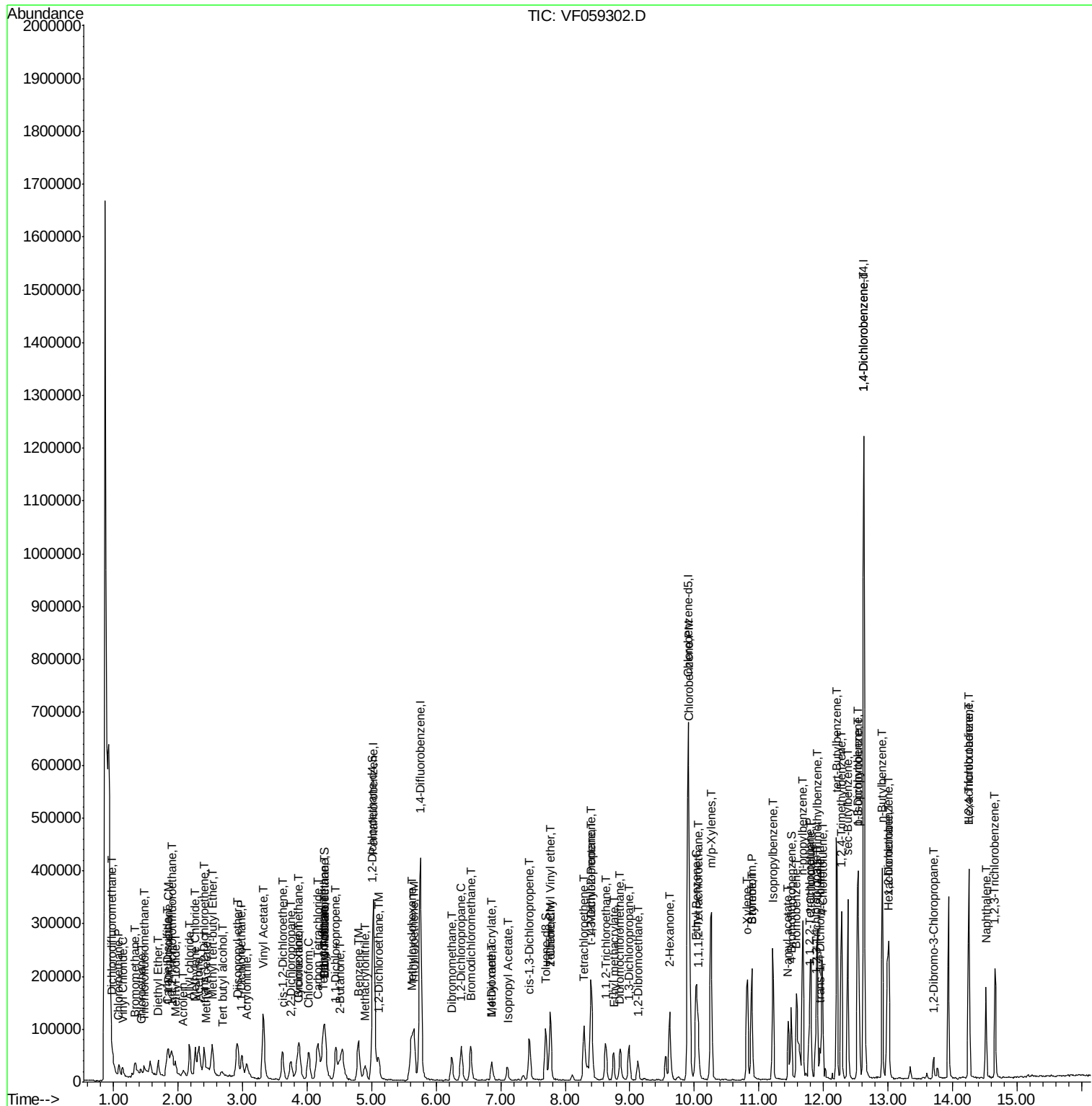
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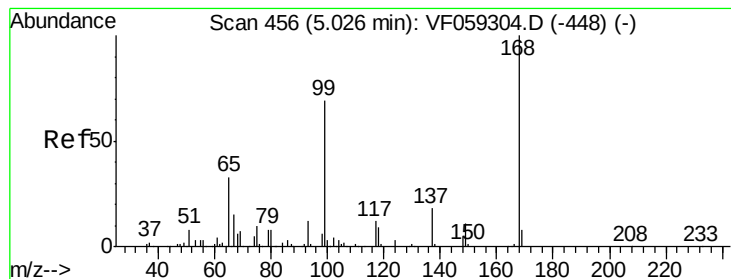
Data File : VF059302.D

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059302.D

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Instrument :

MSVOA_F

ClientSampleId :

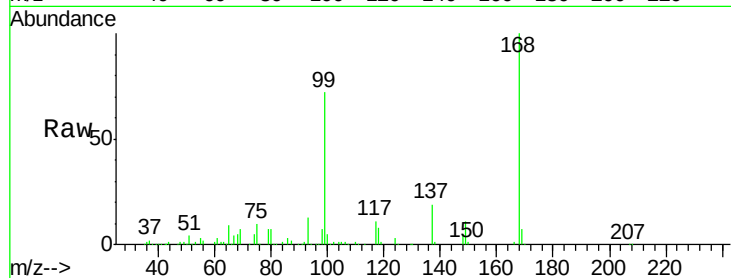
VSTDIC010

Tgt Ion:168 Resp: 284473

Ion Ratio Lower Upper

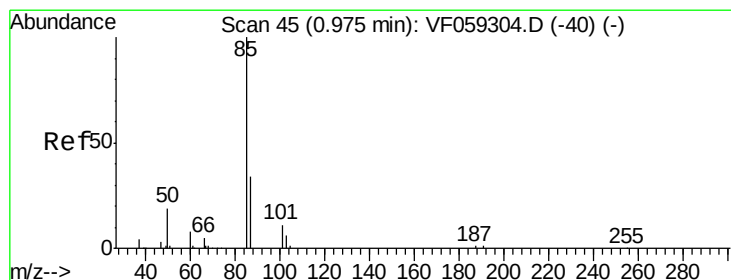
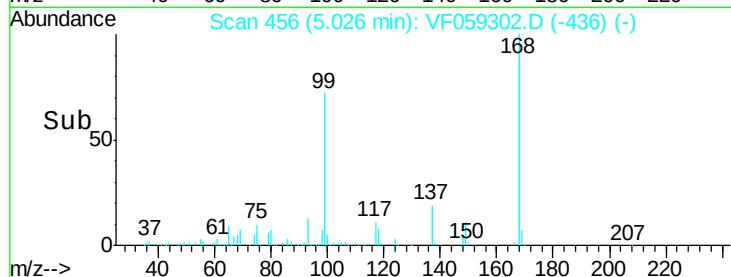
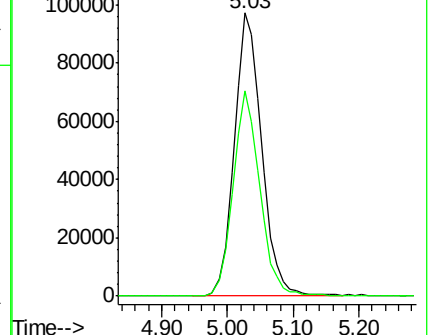
168 100

99 72.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 8.552 ug/l

RT: 0.98 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF059302.D

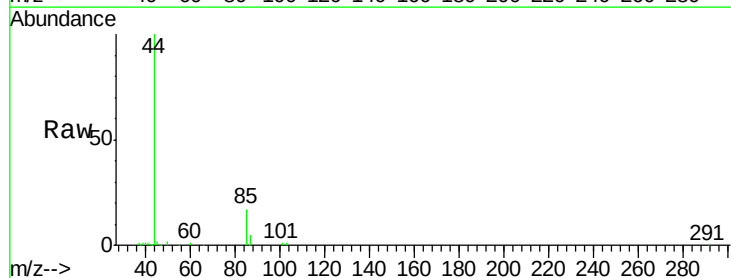
Acq: 25 Jun 2018 15:18

Tgt Ion: 85 Resp: 27480

Ion Ratio Lower Upper

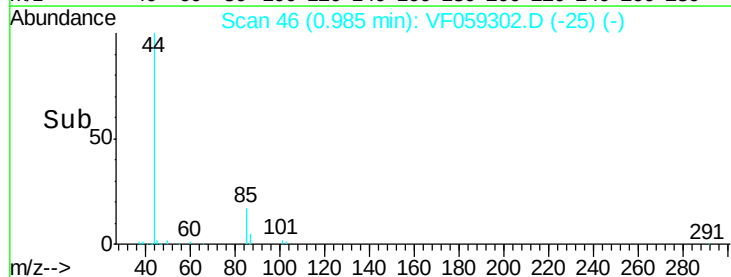
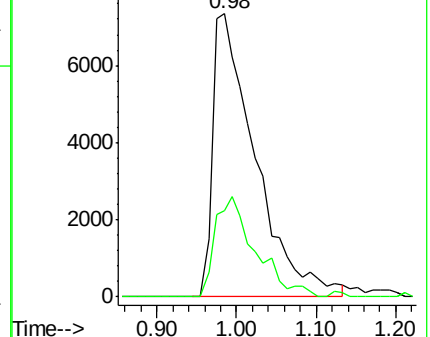
85 100

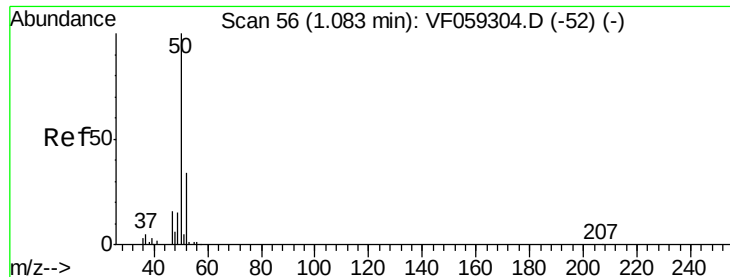
87 30.7 17.1 51.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 8.414 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

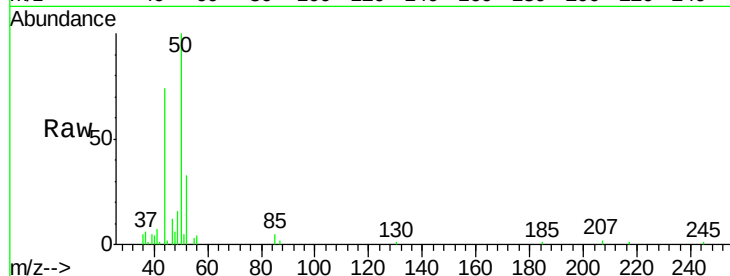
VSTDIC010

Tgt Ion: 50 Resp: 17038

Ion Ratio Lower Upper

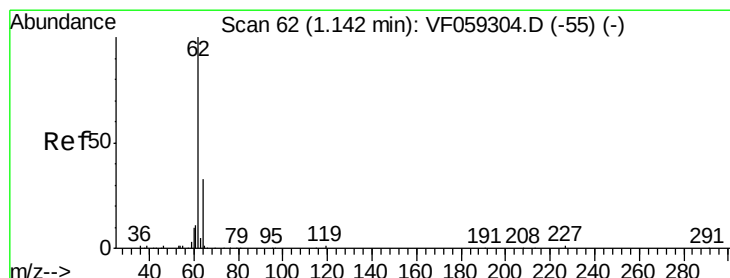
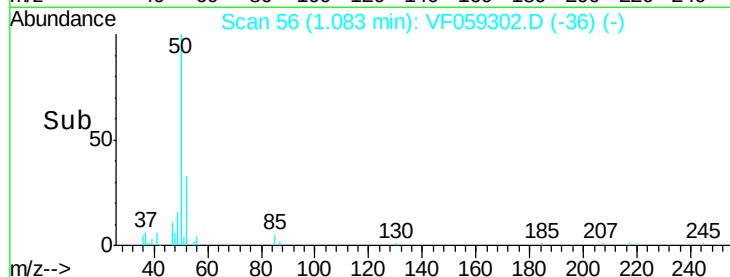
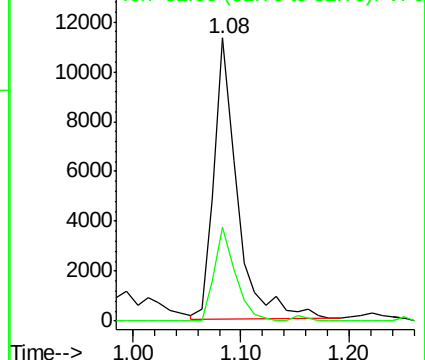
50 100

52 33.0 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 9.546 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF059302.D

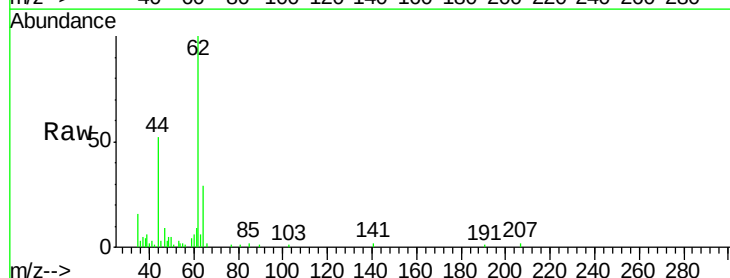
Acq: 25 Jun 2018 15:18

Tgt Ion: 62 Resp: 19136

Ion Ratio Lower Upper

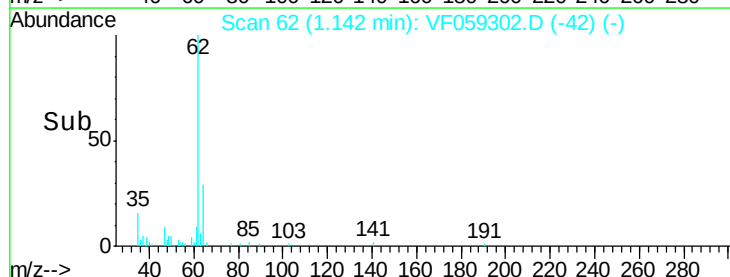
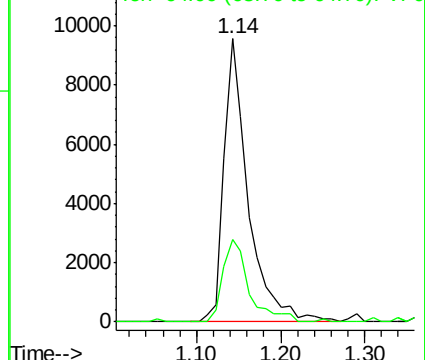
62 100

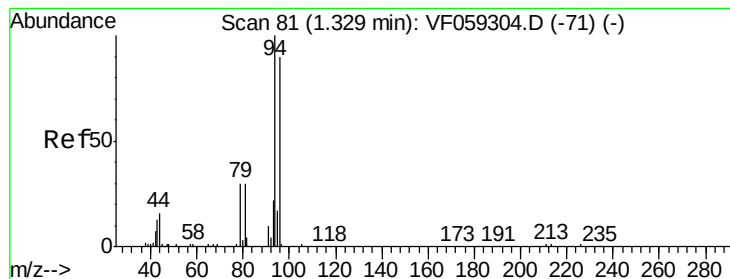
64 29.1 26.3 39.5



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 8.997 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.00 min

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ClientSampleId :

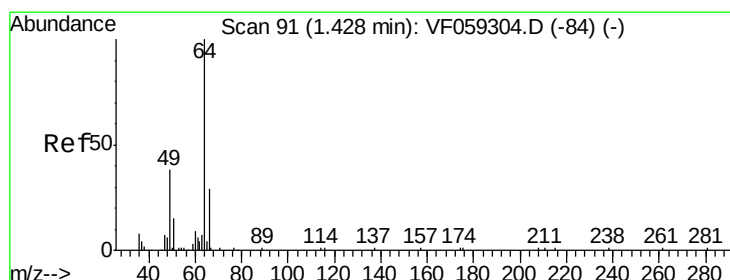
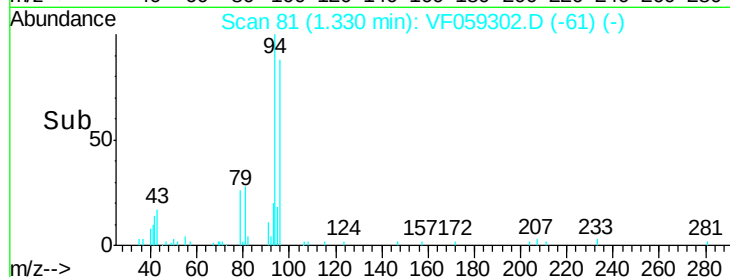
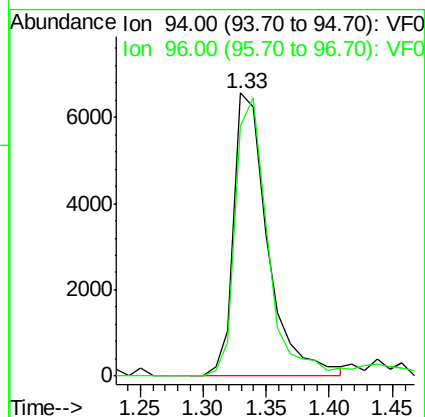
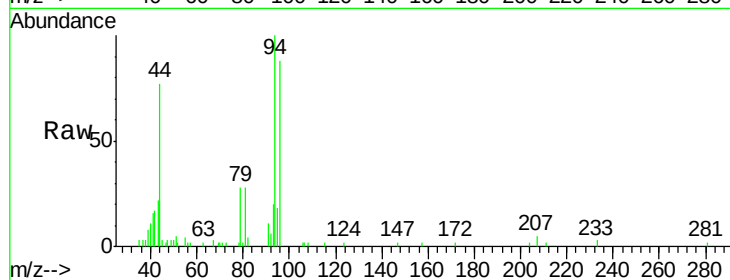
VSTDIC010

Tgt Ion: 94 Resp: 12303

Ion Ratio Lower Upper

94 100

96 88.3 73.4 110.0



#6

Chloroethane

Concen: 8.971 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059302.D

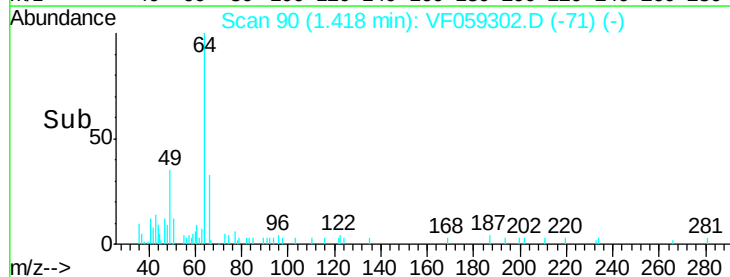
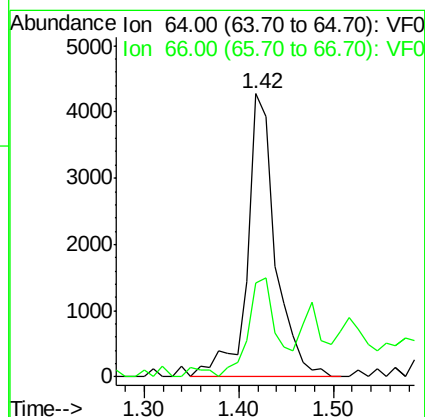
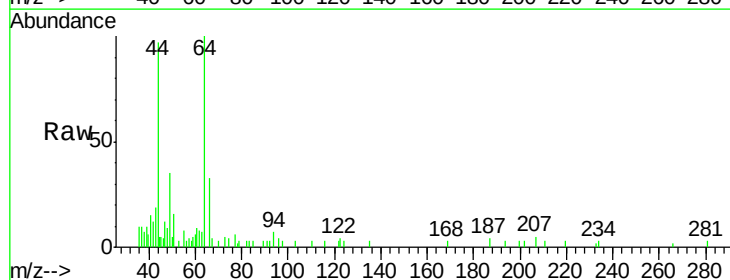
Acq: 25 Jun 2018 15:18

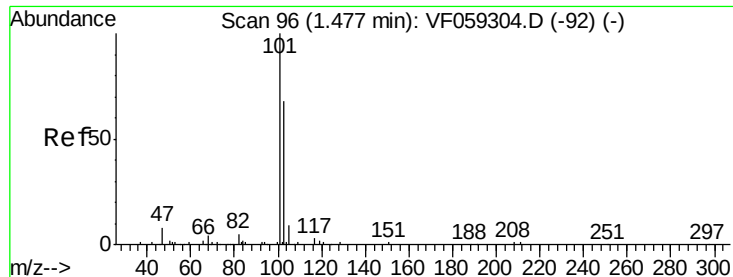
Tgt Ion: 64 Resp: 8804

Ion Ratio Lower Upper

64 100

66 33.0 23.9 35.9





#7

Trichlorofluoromethane

Concen: 5.069 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.00 min

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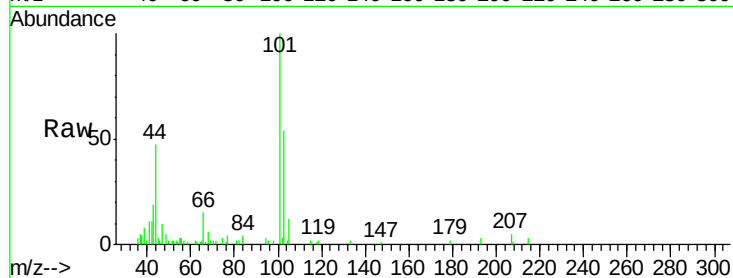
VSTDIC010

Tgt Ion:101 Resp: 19890

Ion Ratio Lower Upper

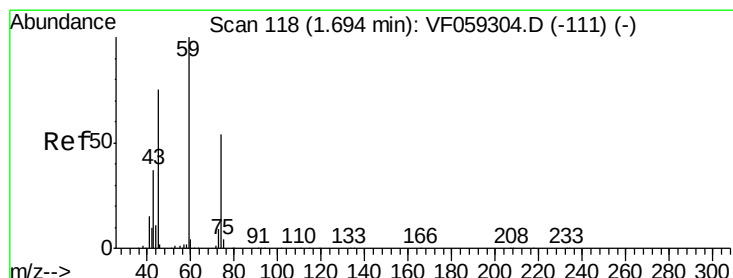
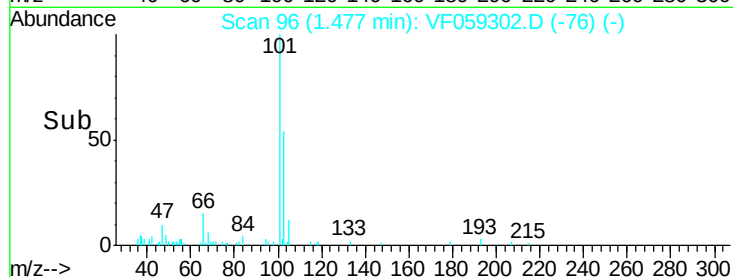
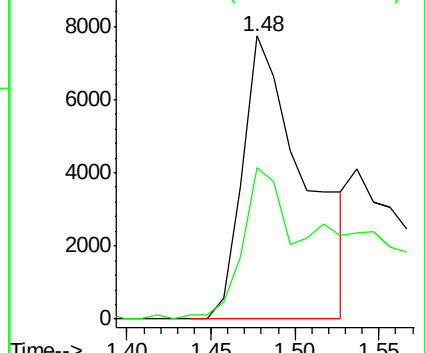
101 100

103 53.7 54.2 81.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 10.324 ug/l

RT: 1.69 min Scan# 118

Delta R.T. 0.00 min

Lab File: VF059302.D

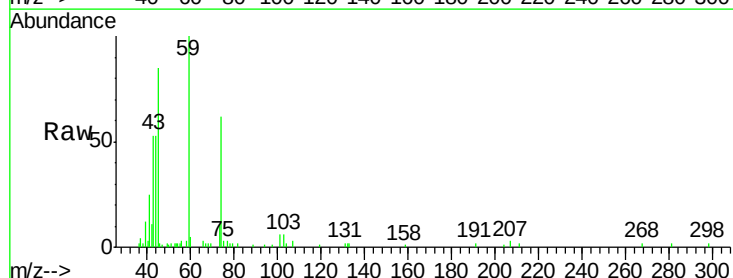
Acq: 25 Jun 2018 15:18

Tgt Ion: 74 Resp: 9383

Ion Ratio Lower Upper

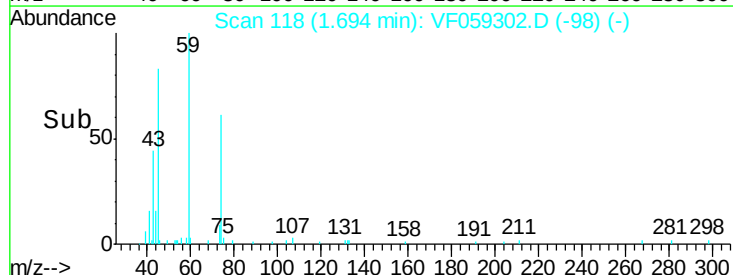
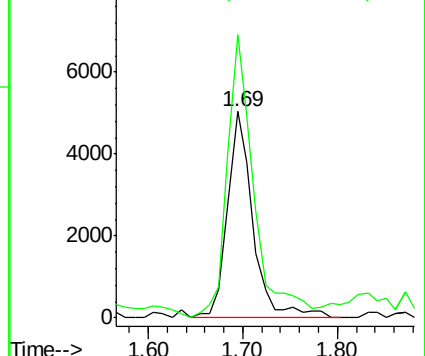
74 100

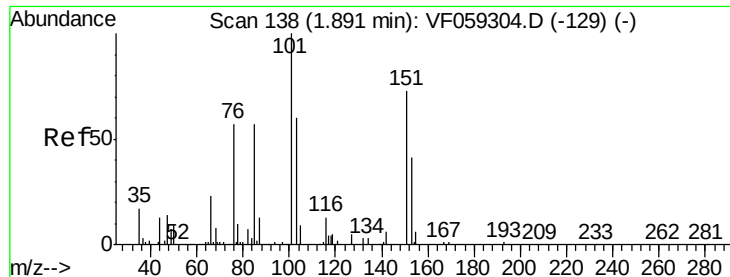
45 137.4 70.0 210.0



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: 9.511 ug/l

RT: 1.90 min Scan# 139

Delta R.T. 0.01 min

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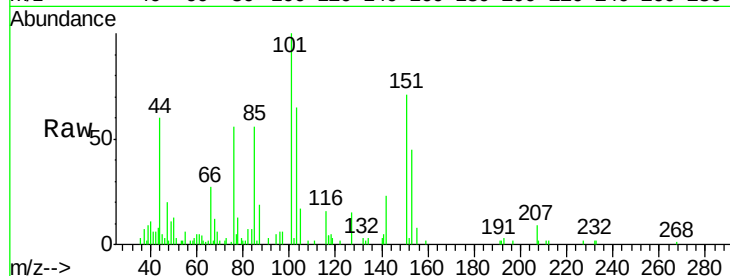
Tgt Ion:101 Resp: 21100

Ion Ratio Lower Upper

101 100

85 55.6 44.5 66.7

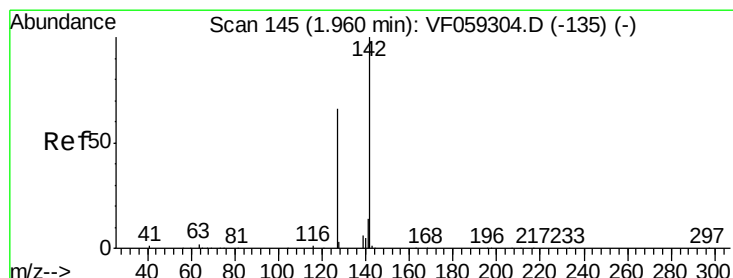
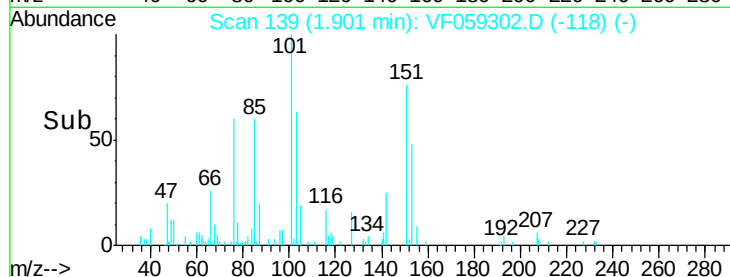
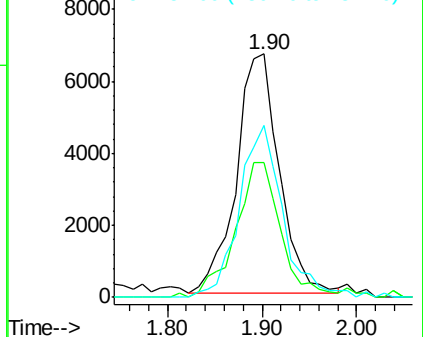
151 70.7 56.8 85.2



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: 9.355 ug/l

RT: 1.96 min Scan# 145

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

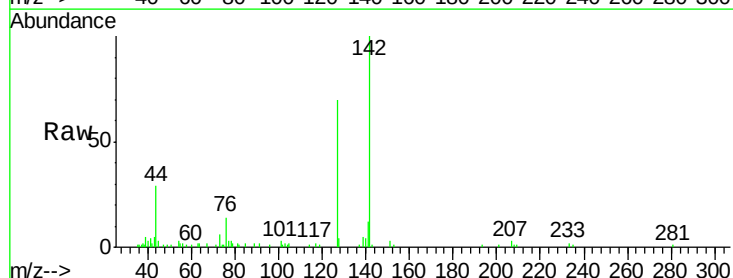
Tgt Ion:142 Resp: 38063

Ion Ratio Lower Upper

142 100

127 69.7 52.5 78.7

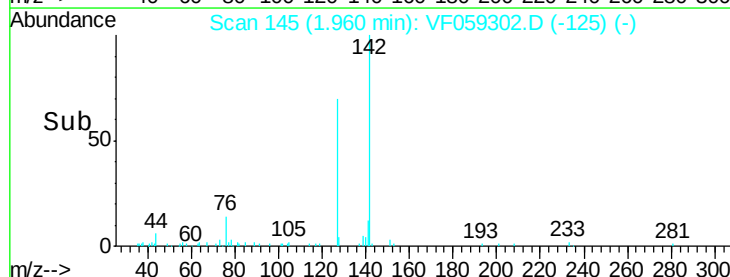
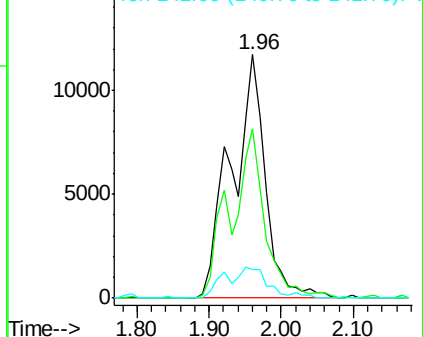
141 11.5 11.5 17.3#

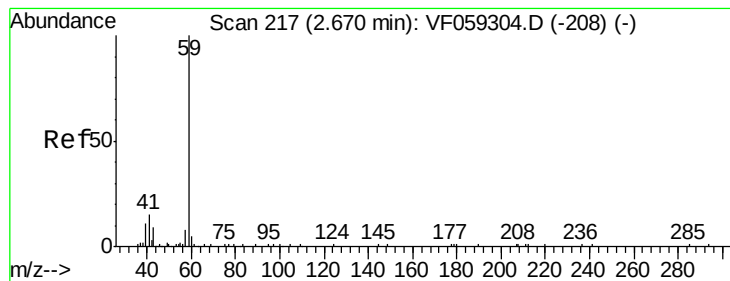


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



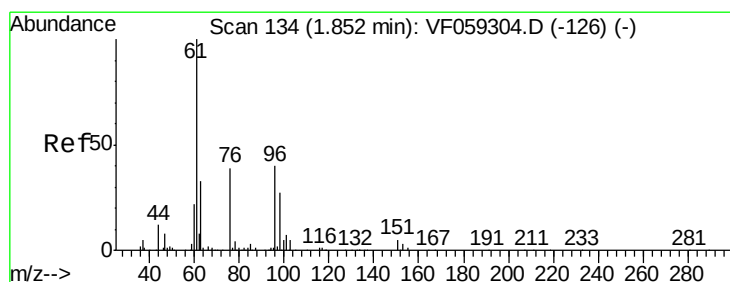
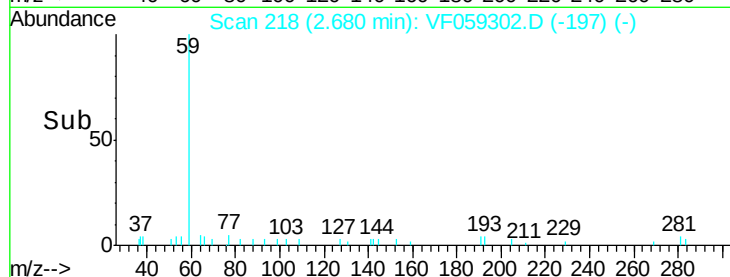
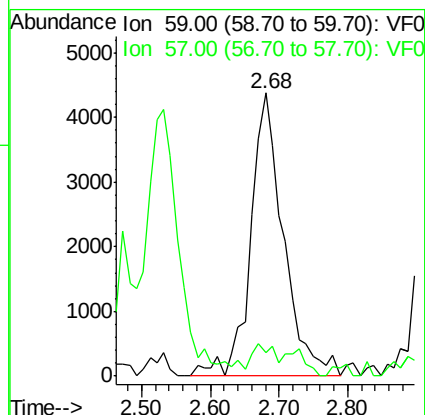
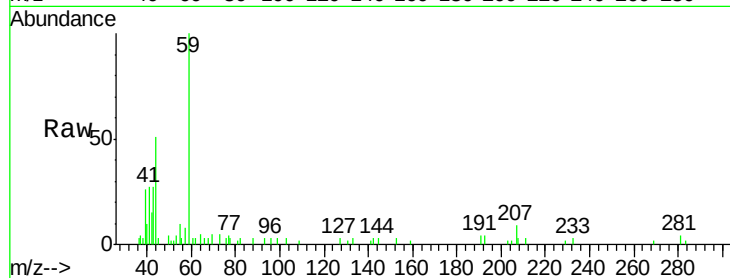


#11

Tert butyl alcohol
 Concen: 59.772 ug/l
 RT: 2.68 min Scan# 218
 Delta R.T. 0.01 min
 Lab File: VF059302.D
 Acq: 25 Jun 2018 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

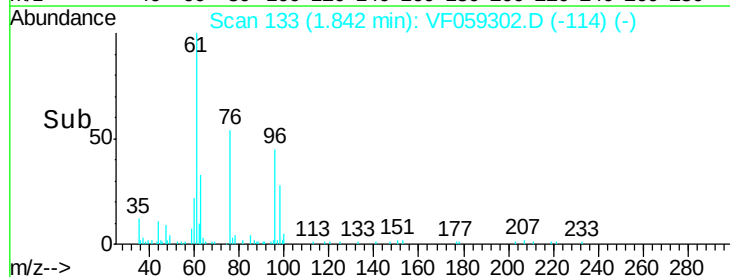
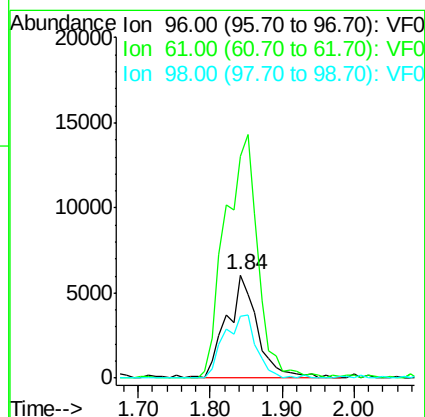
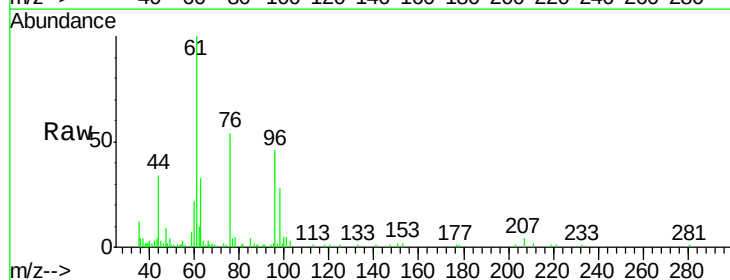
Tgt Ion: 59 Resp: 14562
 Ion Ratio Lower Upper
 59 100
 57 8.3 11.0 16.4#

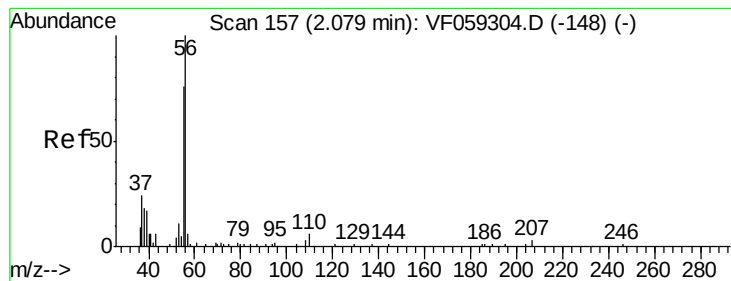


#12

1,1-Dichloroethene
 Concen: 9.019 ug/l
 RT: 1.84 min Scan# 133
 Delta R.T. -0.01 min
 Lab File: VF059302.D
 Acq: 25 Jun 2018 15:18

Tgt Ion: 96 Resp: 17913
 Ion Ratio Lower Upper
 96 100
 61 215.1 201.1 301.7
 98 60.5 53.9 80.9





#13

Acrolein

Concen: 43.201 ug/l

RT: 2.08 min Scan# 157

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

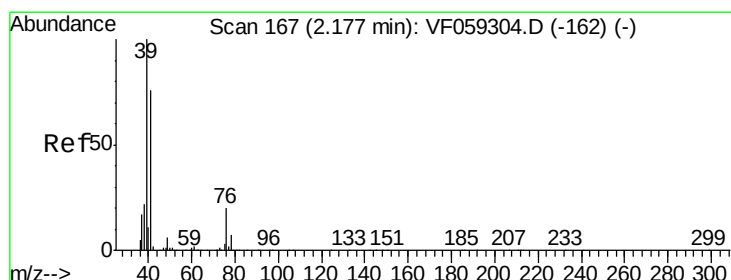
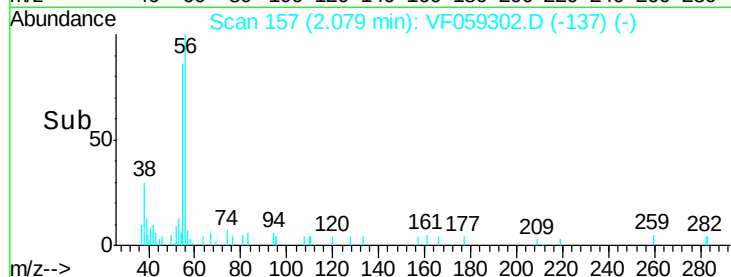
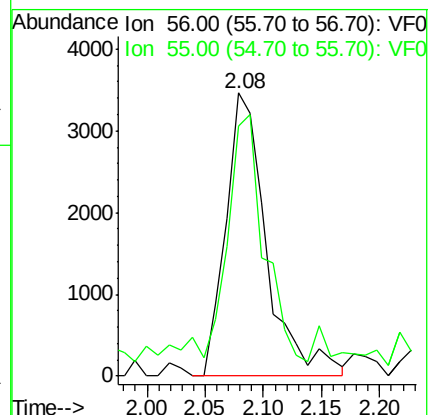
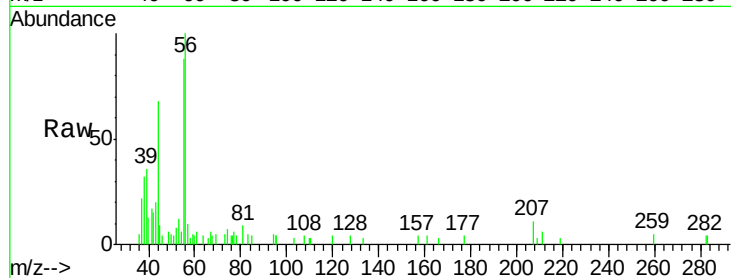
VSTDIC010

Tgt Ion: 56 Resp: 8391

Ion Ratio Lower Upper

56 100

55 88.1 62.4 93.6



#14

Allyl chloride

Concen: 8.672 ug/l

RT: 2.18 min Scan# 167

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

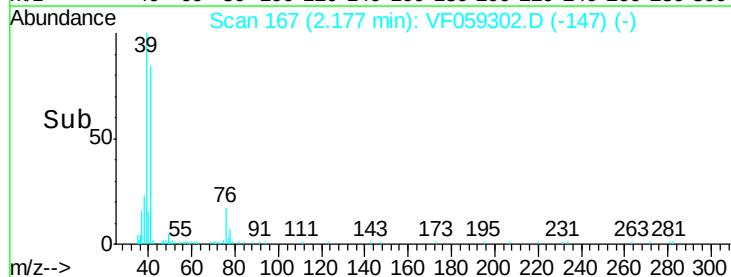
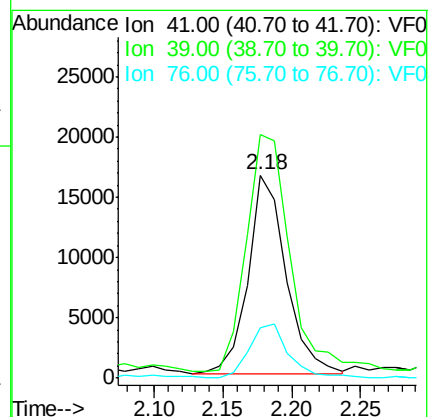
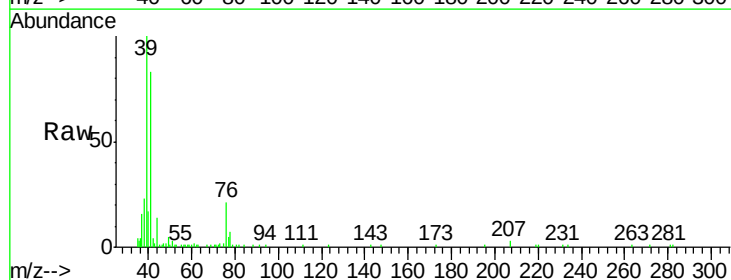
Tgt Ion: 41 Resp: 31866

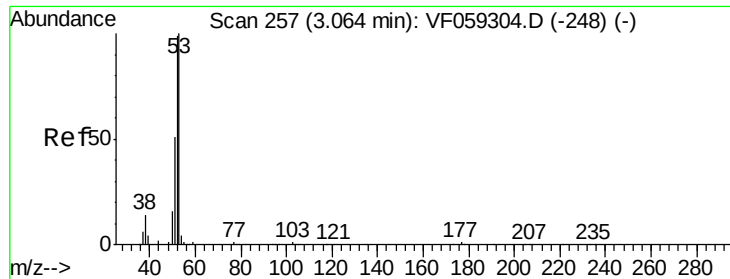
Ion Ratio Lower Upper

41 100

39 119.8 105.6 158.4

76 25.1 21.6 32.4





#15

Acrylonitrile

Concen: 42.368 ug/l

RT: 3.06 min Scan# 257

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

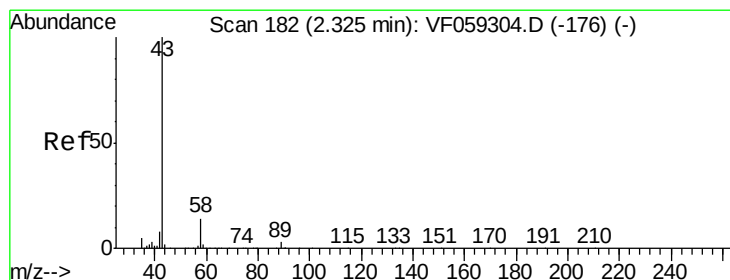
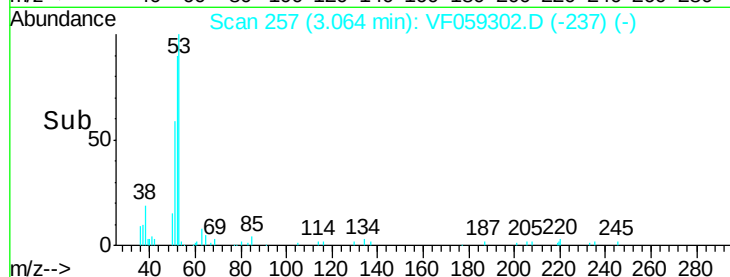
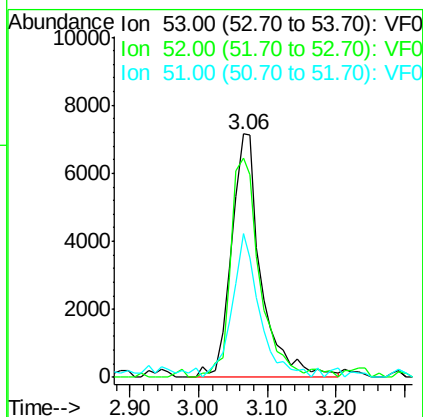
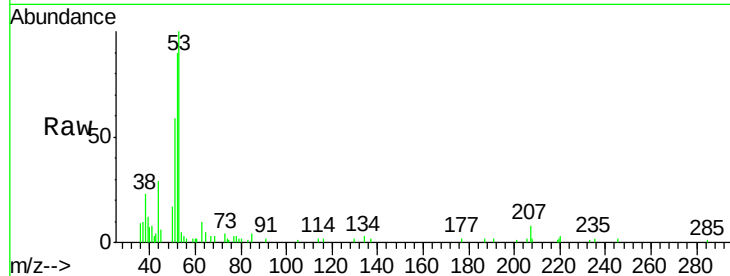
Tgt Ion: 53 Resp: 21351

Ion Ratio Lower Upper

53 100

52 90.2 79.2 118.8

51 59.3 40.9 61.3



#16

Acetone

Concen: 57.270 ug/l

RT: 2.33 min Scan# 182

Delta R.T. 0.00 min

Lab File: VF059302.D

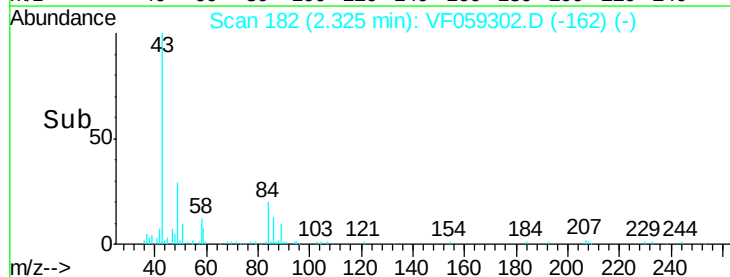
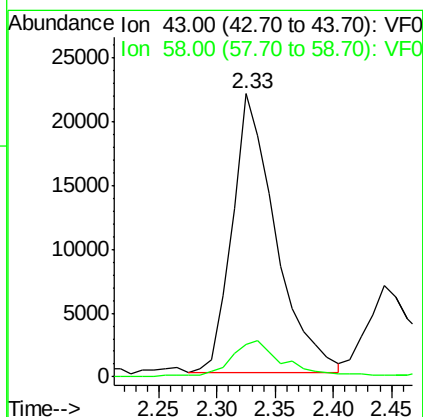
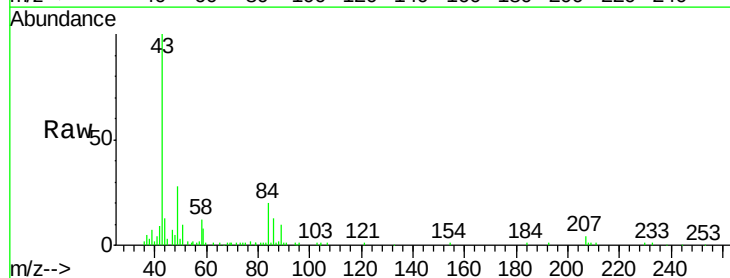
Acq: 25 Jun 2018 15:18

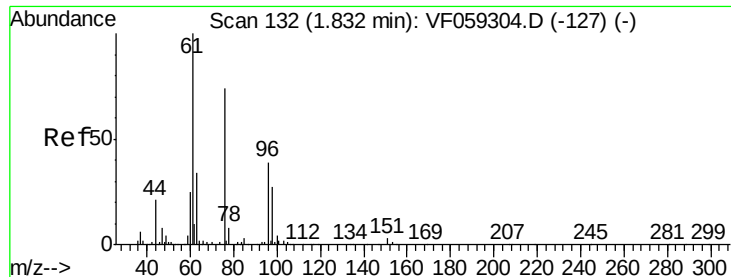
Tgt Ion: 43 Resp: 56051

Ion Ratio Lower Upper

43 100

58 11.6 11.4 17.0

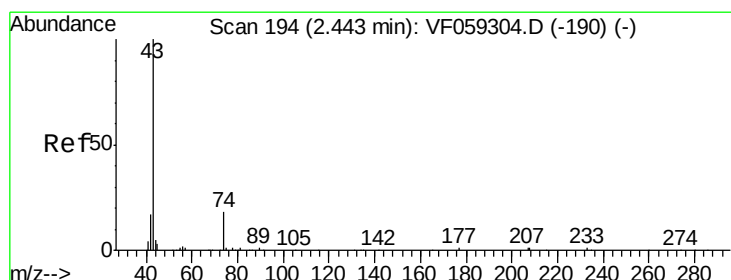
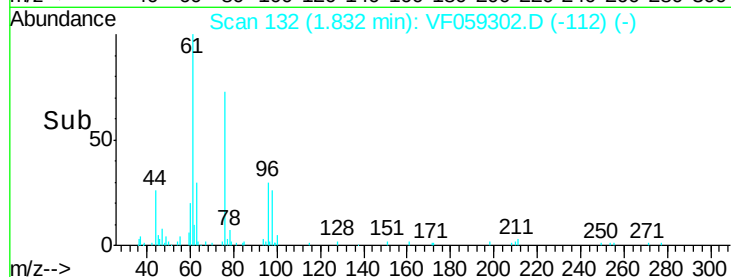
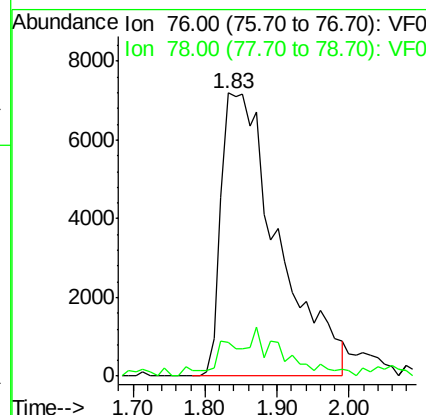
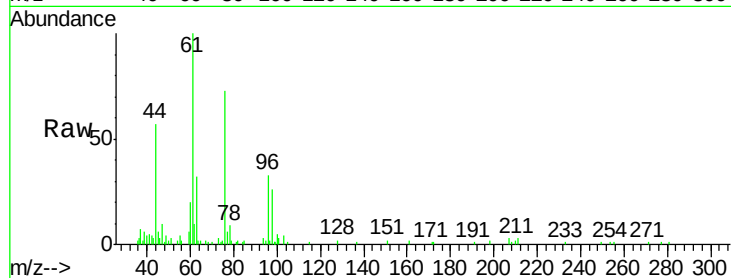




#17
Carbon Disulfide
Concen: 8.211 ug/l
RT: 1.83 min Scan# 132
Delta R.T. 0.00 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

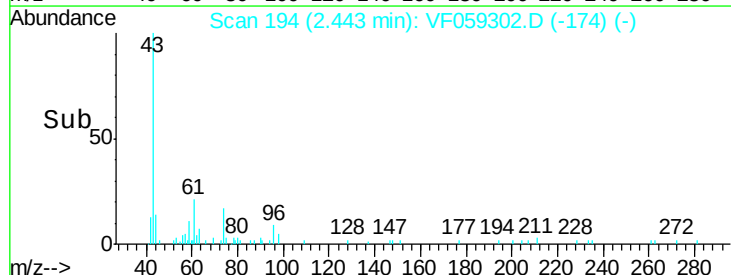
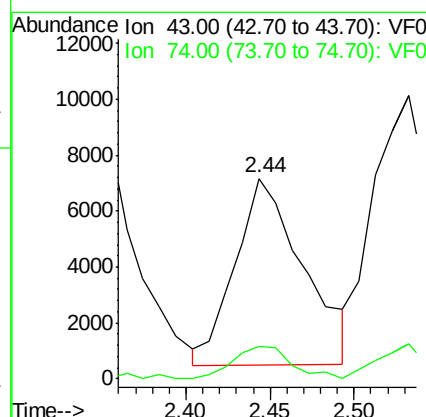
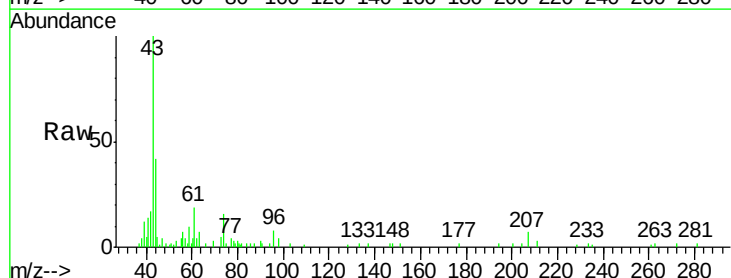
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

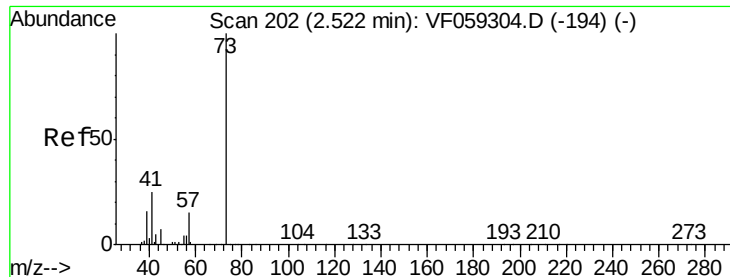
Tgt Ion: 76 Resp: 39252
Ion Ratio Lower Upper
76 100
78 11.9 8.9 13.3



#18
Methyl Acetate
Concen: 10.148 ug/l
RT: 2.44 min Scan# 194
Delta R.T. 0.00 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

Tgt Ion: 43 Resp: 18720
Ion Ratio Lower Upper
43 100
74 15.9 13.3 19.9



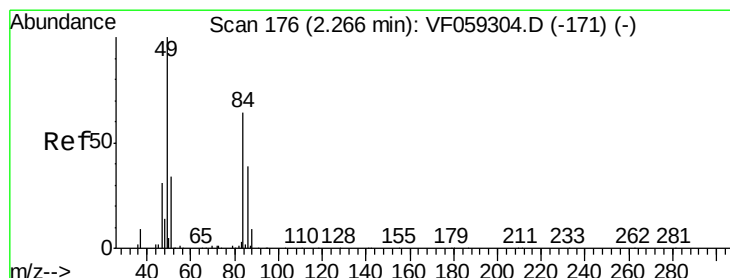
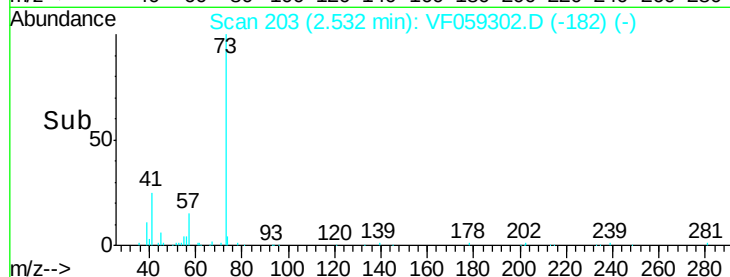
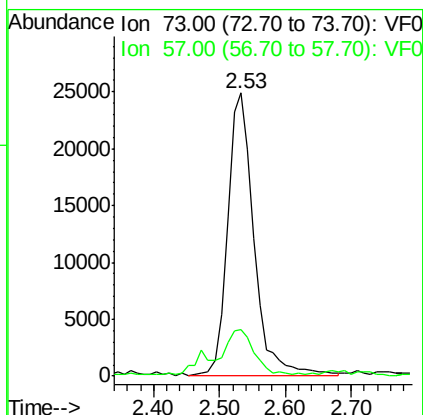
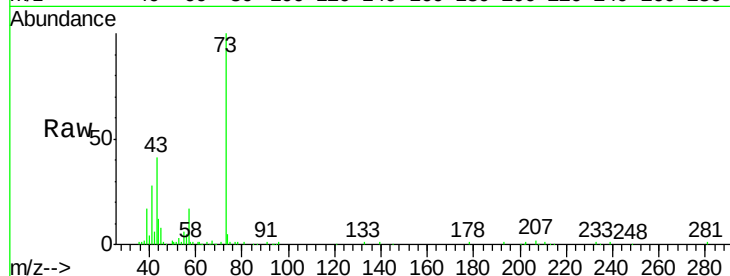


#19

Methyl tert-butyl Ether
Concen: 10.499 ug/l
RT: 2.53 min Scan# 203
Delta R.T. 0.01 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

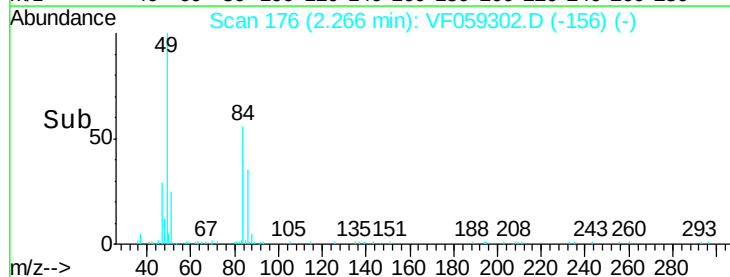
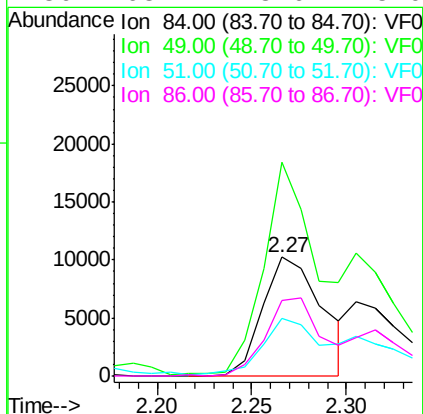
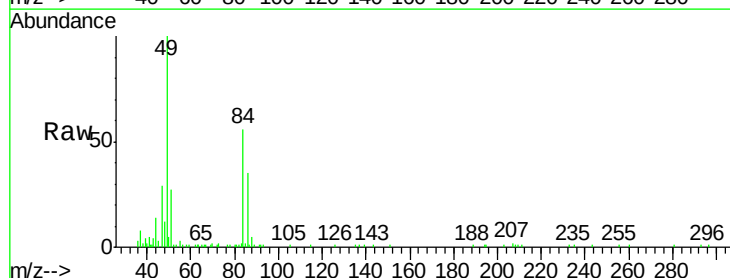
Tgt Ion: 73 Resp: 70205
Ion Ratio Lower Upper
73 100
57 16.6 12.3 18.5

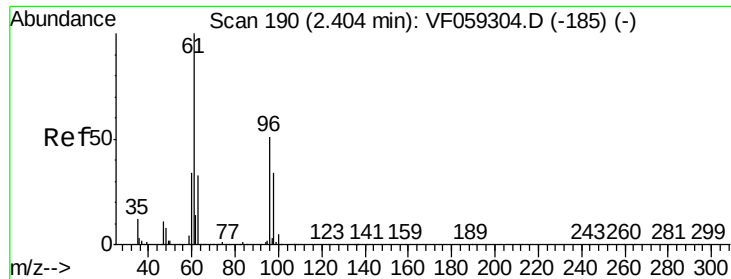


#20

Methylene Chloride
Concen: 10.520 ug/l
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

Tgt Ion: 84 Resp: 22451
Ion Ratio Lower Upper
84 100
49 180.0 126.5 189.7
51 48.4 42.9 64.3
86 63.7 48.6 73.0





#21

trans-1,2-Dichloroethene

Concen: 9.002 ug/l

RT: 2.40 min Scan# 190

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

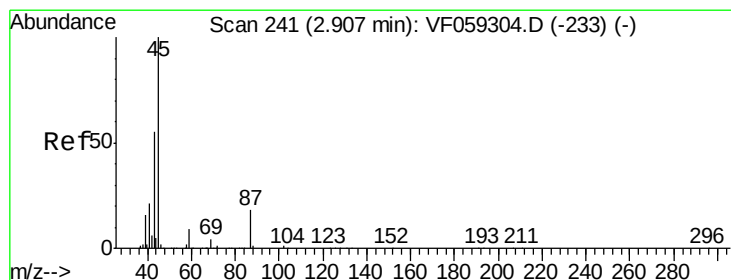
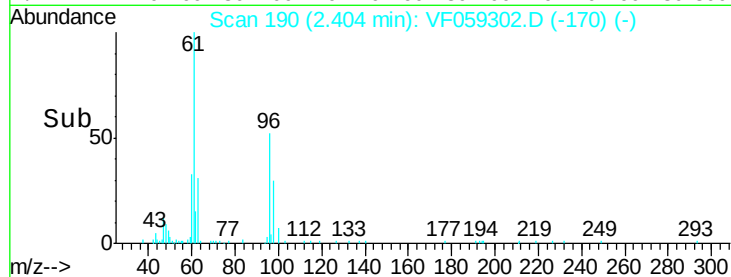
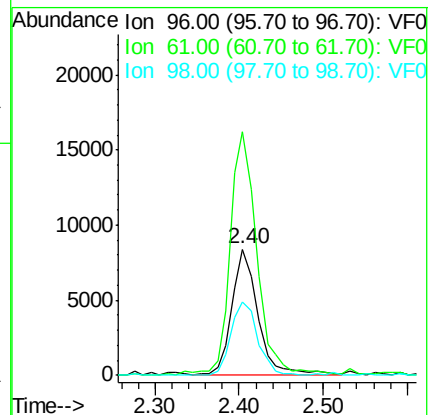
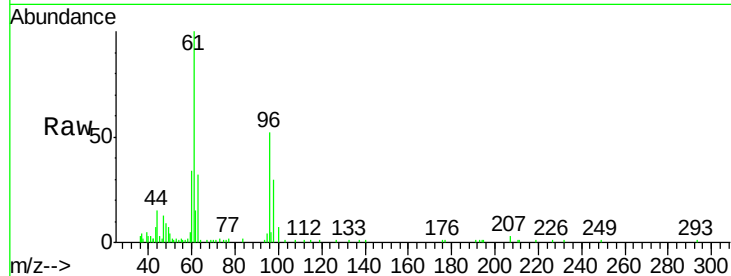
Tgt Ion: 96 Resp: 18383

Ion Ratio Lower Upper

96 100

61 193.4 157.4 236.2

98 58.0 53.7 80.5



#22

Diisopropyl ether

Concen: 9.289 ug/l

RT: 2.92 min Scan# 242

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Tgt Ion: 45 Resp: 70952

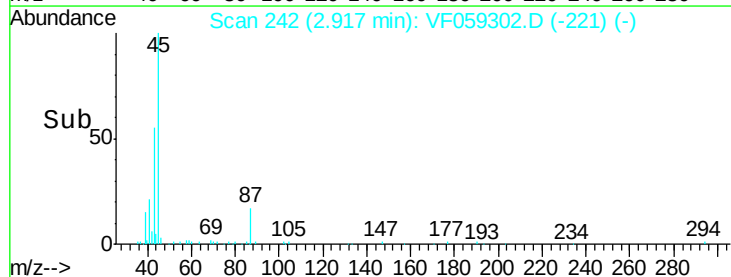
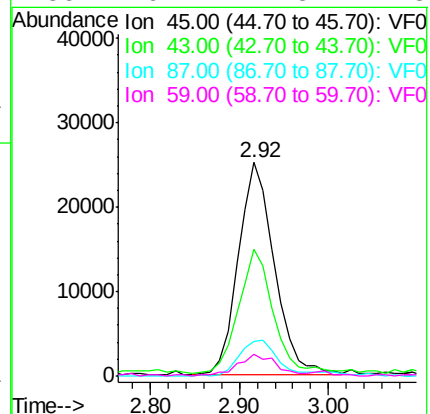
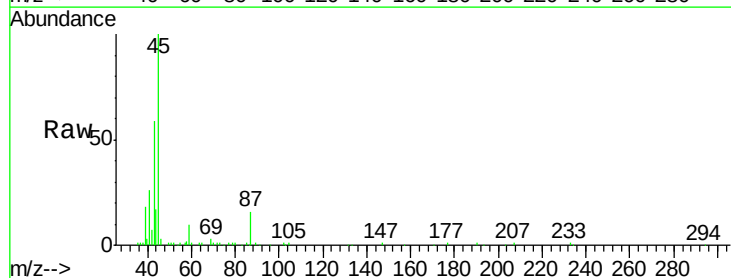
Ion Ratio Lower Upper

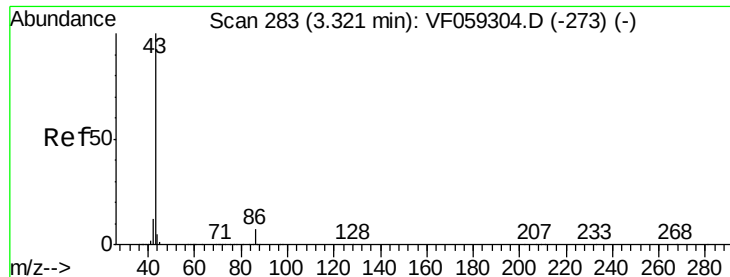
45 100

43 59.3 44.6 66.8

87 16.4 14.3 21.5

59 10.4 7.5 11.3





#23

Vinyl Acetate

Concen: 50.809 ug/l

RT: 3.32 min Scan# 283

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

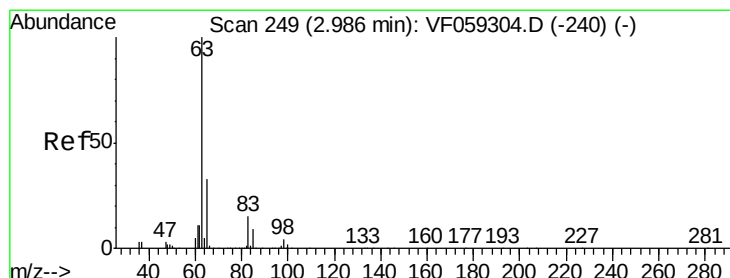
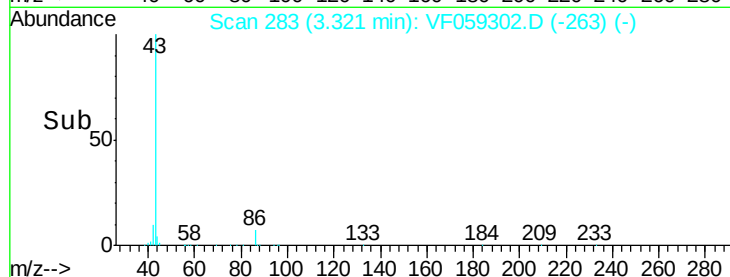
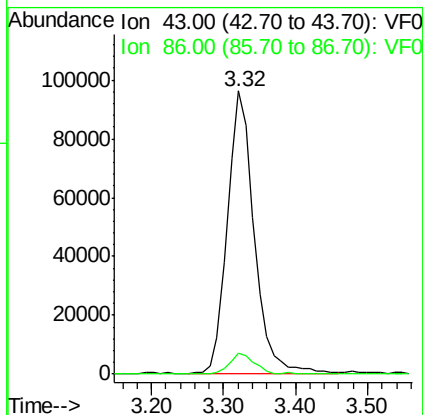
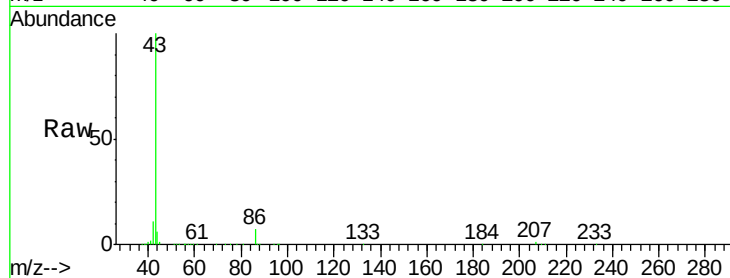
VSTDIC010

Tgt Ion: 43 Resp: 248615

Ion Ratio Lower Upper

43 100

86 7.2 5.8 8.6



#24

1,1-Dichloroethane

Concen: 9.188 ug/l

RT: 2.99 min Scan# 249

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

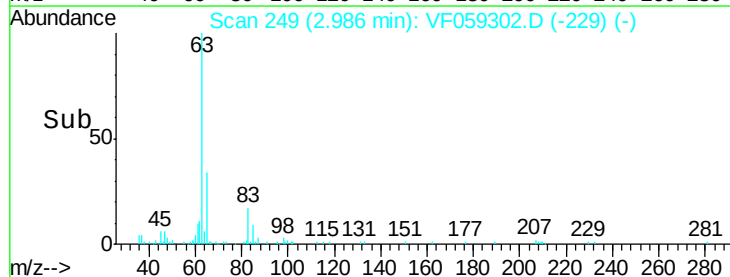
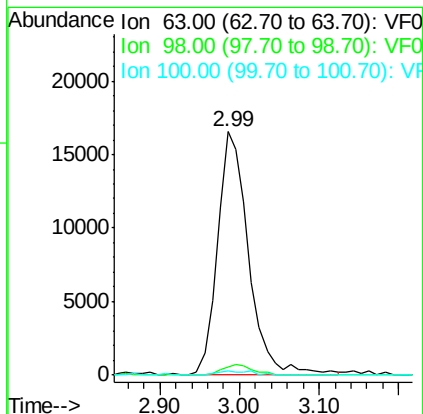
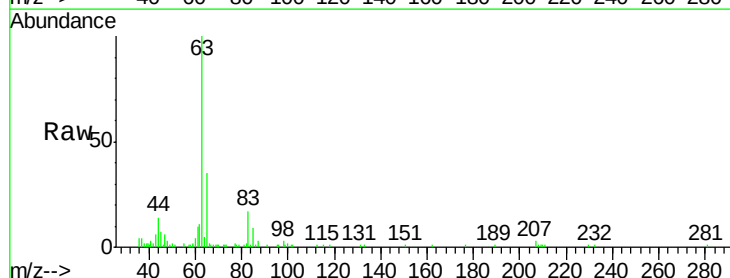
Tgt Ion: 63 Resp: 45321

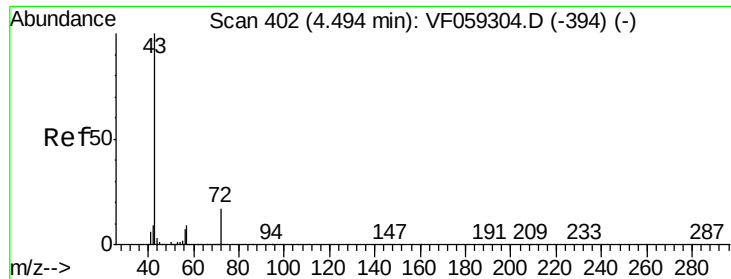
Ion Ratio Lower Upper

63 100

98 3.3 2.0 6.0

100 1.8 1.3 3.9





#25

2-Butanone

Concen: 49.588 ug/l

RT: 4.50 min Scan# 403

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

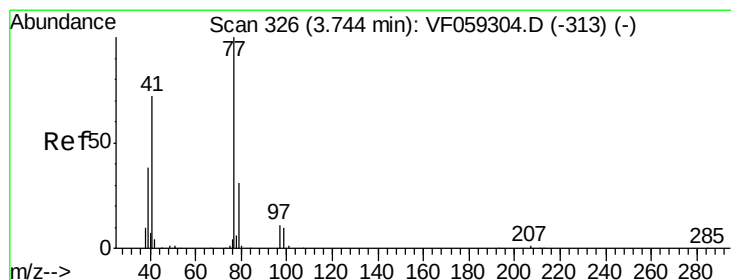
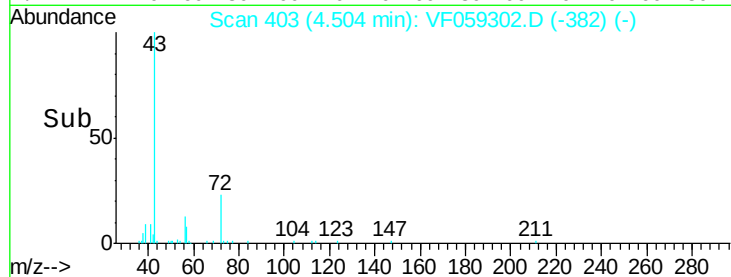
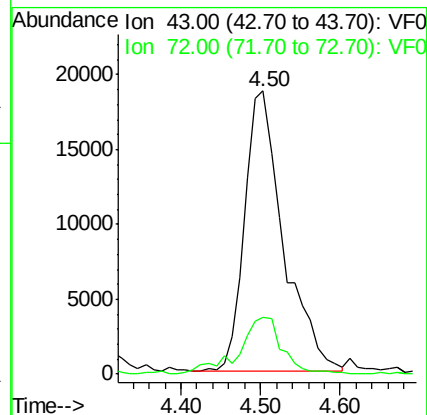
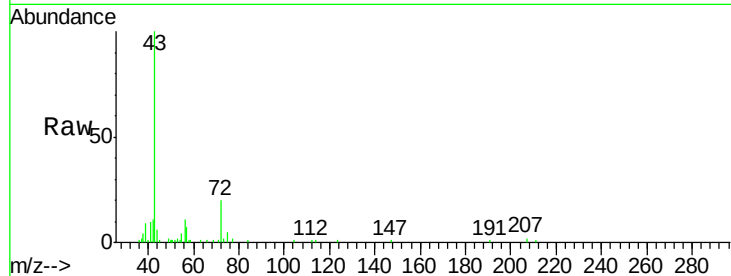
VSTDIC010

Tgt Ion: 43 Resp: 63347

Ion Ratio Lower Upper

43 100

72 20.2 14.4 21.6



#26

2,2-Dichloropropane

Concen: 9.782 ug/l

RT: 3.75 min Scan# 327

Delta R.T. 0.01 min

Lab File: VF059302.D

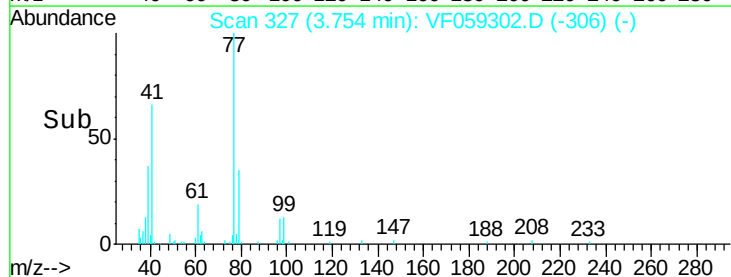
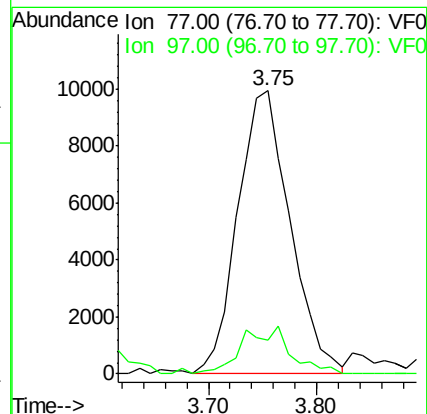
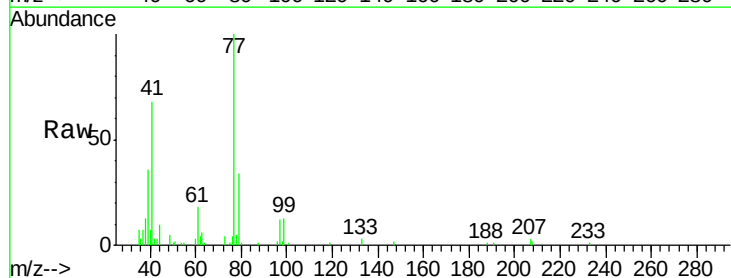
Acq: 25 Jun 2018 15:18

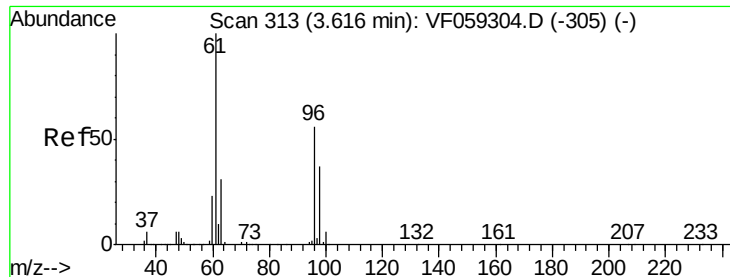
Tgt Ion: 77 Resp: 33445

Ion Ratio Lower Upper

77 100

97 11.8 8.0 23.8



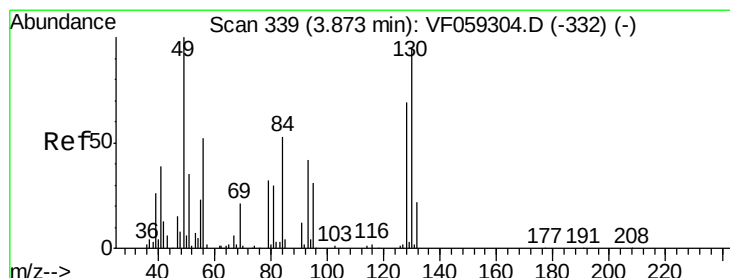
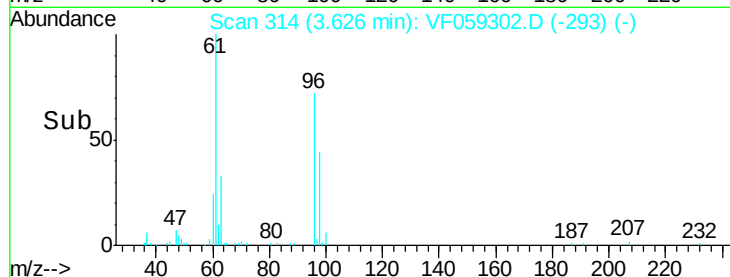
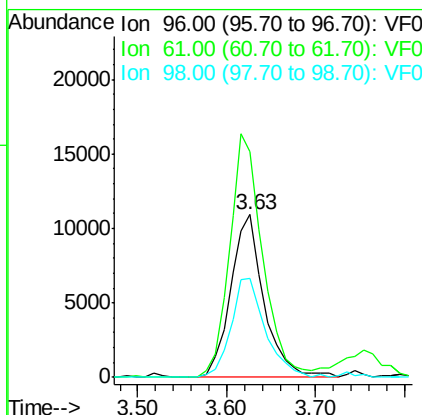
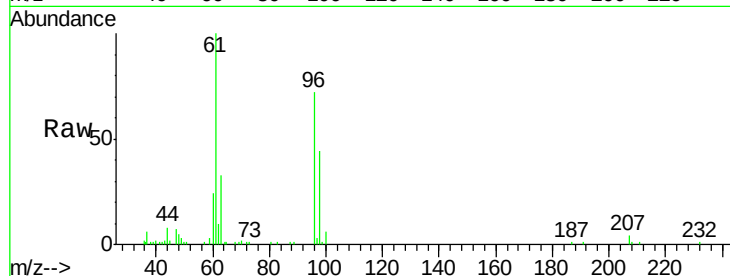


#27

cis-1,2-Dichloroethene
Concen: 9.179 ug/l
RT: 3.63 min Scan# 314
Delta R.T. 0.01 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

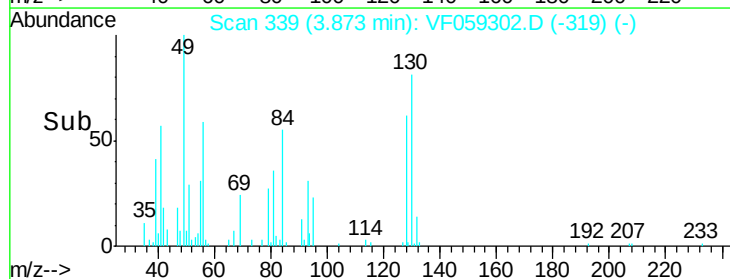
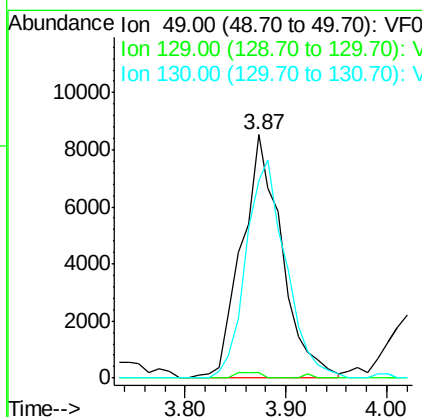
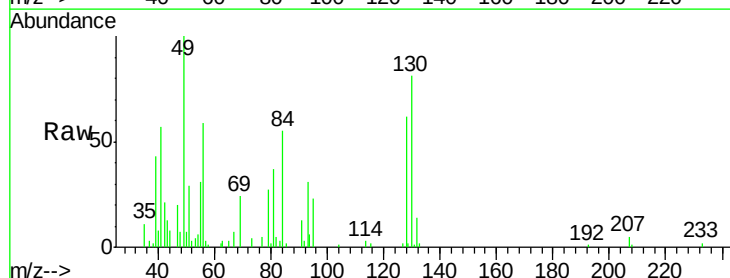
Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.3	0.0	355.4
98	61.2	0.0	131.0

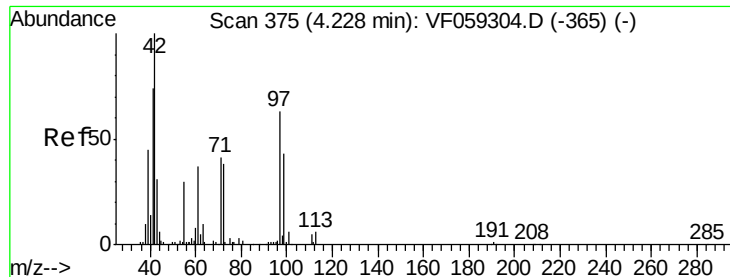


#28

Bromochloromethane
Concen: 11.483 ug/l
RT: 3.87 min Scan# 339
Delta R.T. 0.00 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	6.4
130	81.0	75.1	112.7

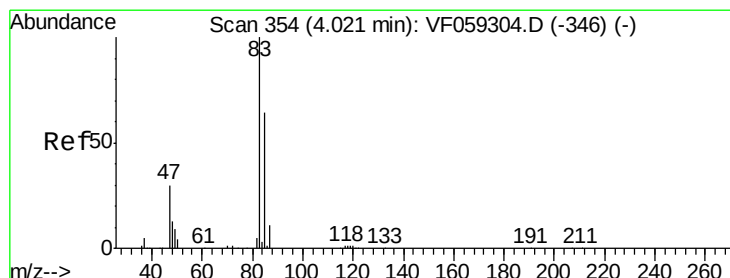
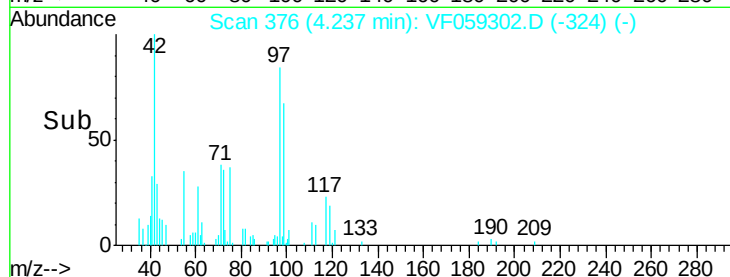
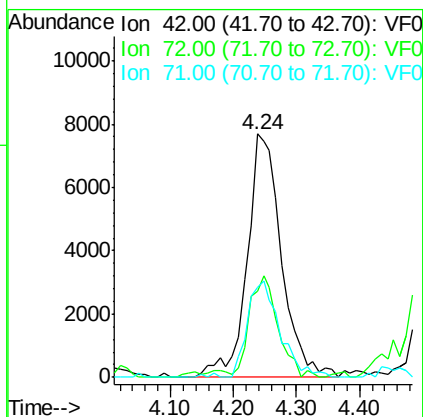
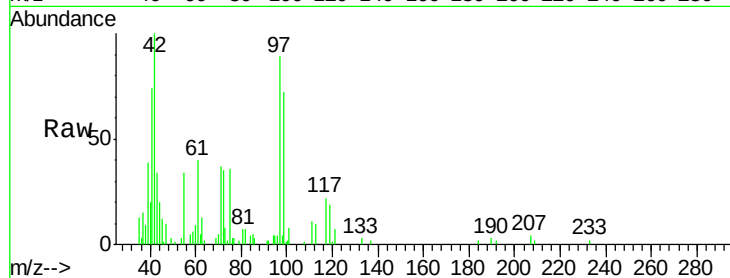




#29
Tetrahydrofuran
Concen: 51.008 ug/l
RT: 4.24 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

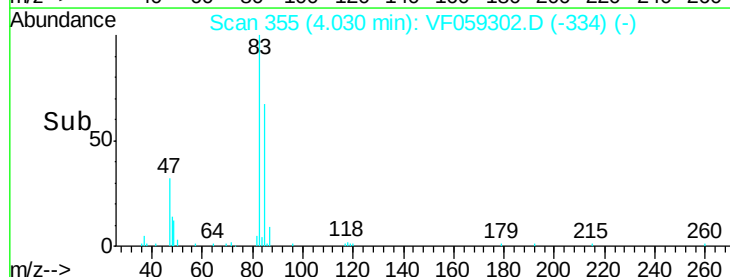
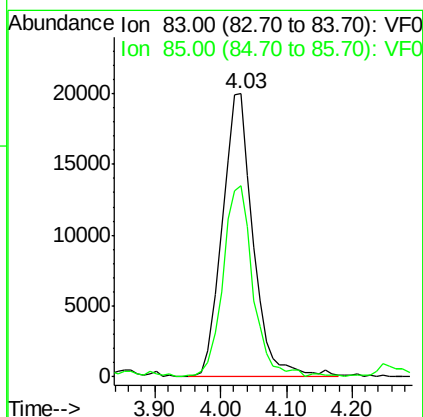
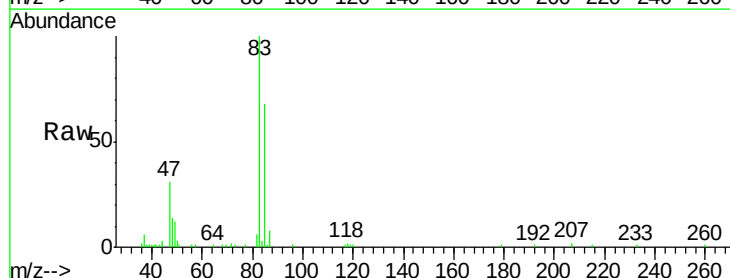
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

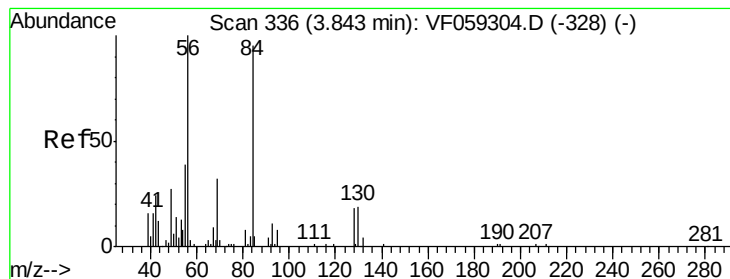
Tgt Ion: 42 Resp: 29203
Ion Ratio Lower Upper
42 100
72 34.7 30.5 45.7
71 37.5 32.5 48.7



#30
Chloroform
Concen: 9.207 ug/l
RT: 4.03 min Scan# 355
Delta R.T. 0.01 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

Tgt Ion: 83 Resp: 65637
Ion Ratio Lower Upper
83 100
85 67.6 51.3 76.9





#31

Cyclohexane

Concen: 9.566 ug/l

RT: 3.85 min Scan# 337

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

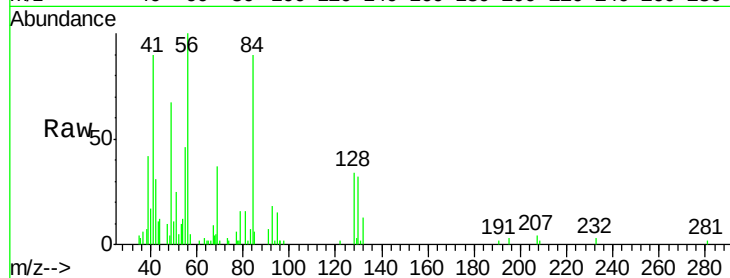
Tgt Ion: 56 Resp: 31971

Ion Ratio Lower Upper

56 100

69 37.3 25.8 38.8

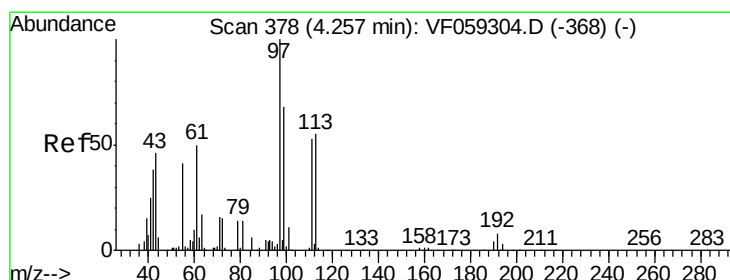
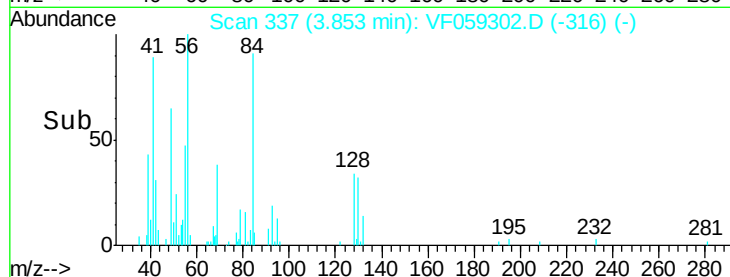
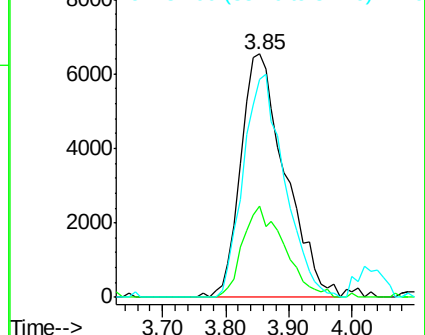
84 89.8 75.6 113.4



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 9.300 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

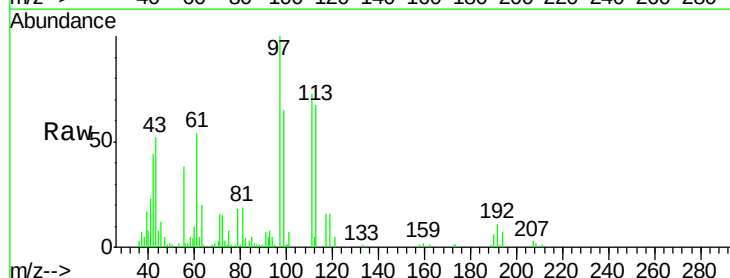
Tgt Ion: 97 Resp: 49728

Ion Ratio Lower Upper

97 100

99 66.5 54.1 81.1

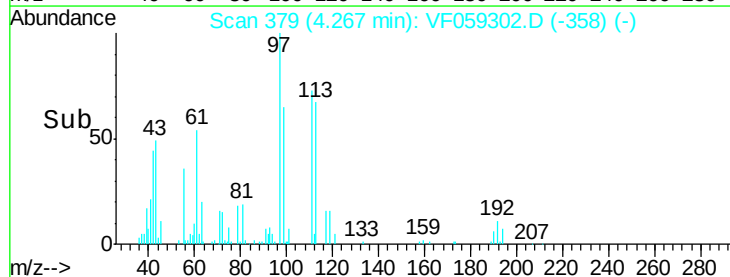
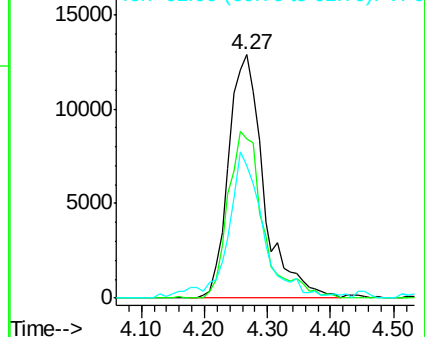
61 54.1 41.2 61.8

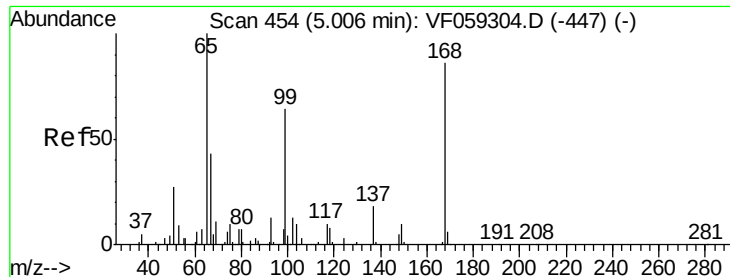


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 9.682 ug/l

RT: 5.01 min Scan# 454

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

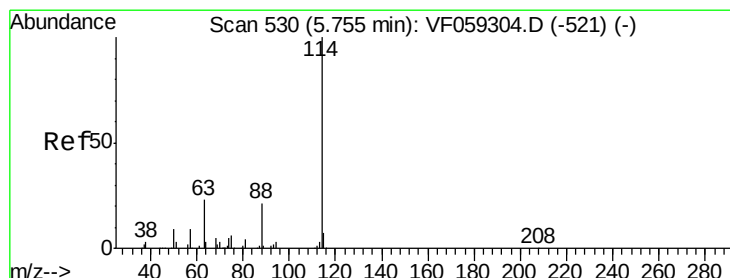
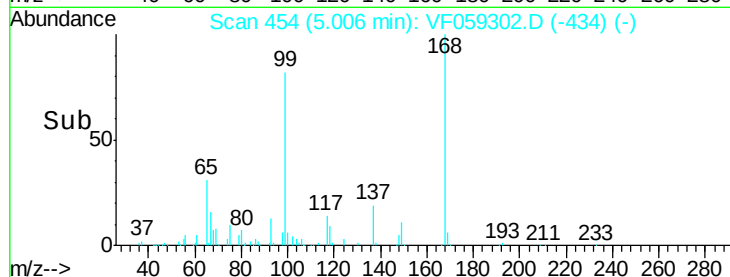
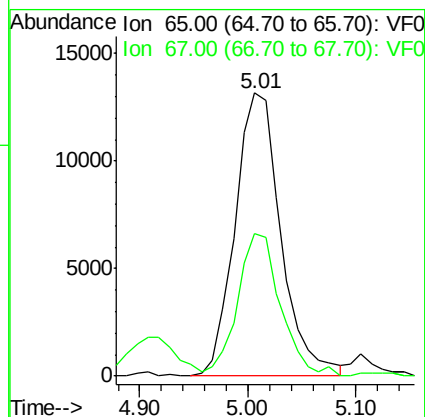
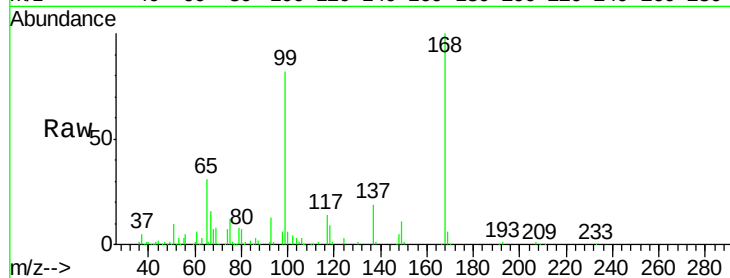
VSTDIC010

Tgt Ion: 65 Resp: 38831

Ion Ratio Lower Upper

65 100

67 50.2 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

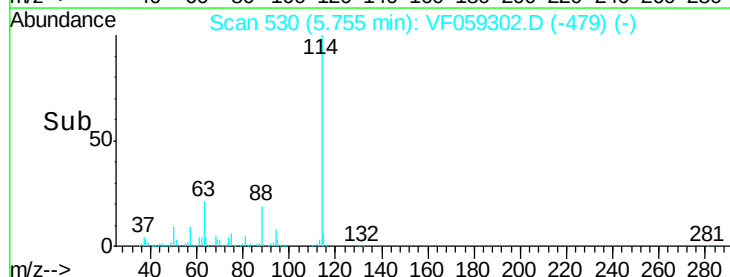
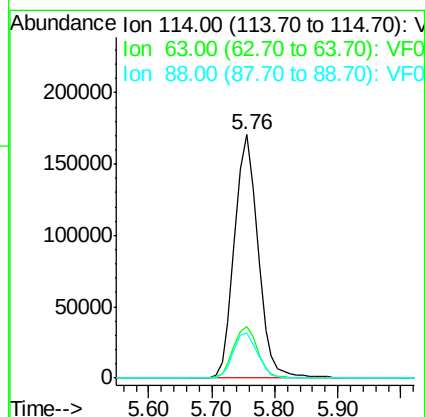
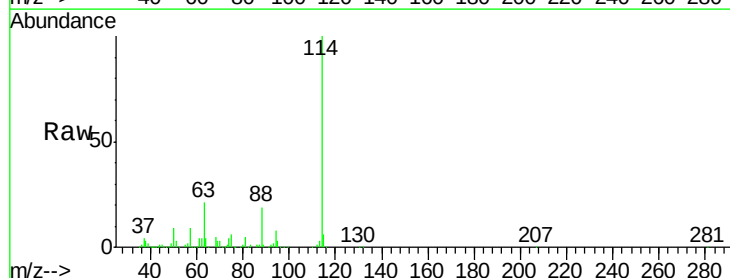
Tgt Ion: 114 Resp: 442809

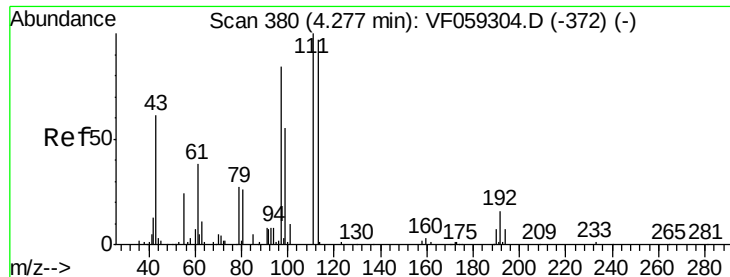
Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.8

88 18.8 0.0 41.2





#35

Dibromofluoromethane

Concen: 9.316 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

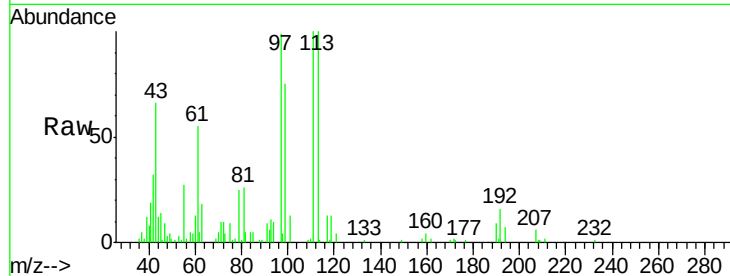
Tgt Ion:113 Resp: 33891

Ion Ratio Lower Upper

113 100

111 99.2 82.1 123.1

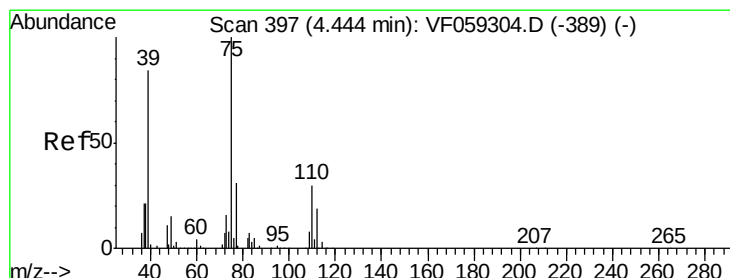
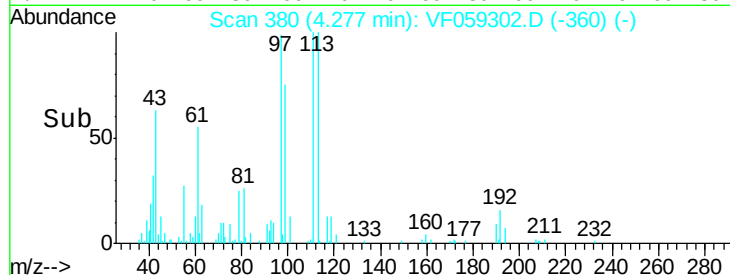
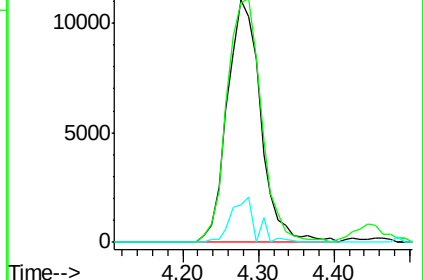
192 15.5 13.0 19.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 8.626 ug/l

RT: 4.44 min Scan# 397

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

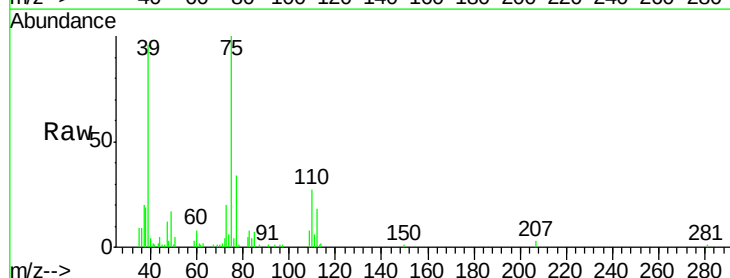
Tgt Ion: 75 Resp: 38668

Ion Ratio Lower Upper

75 100

110 27.1 14.8 44.4

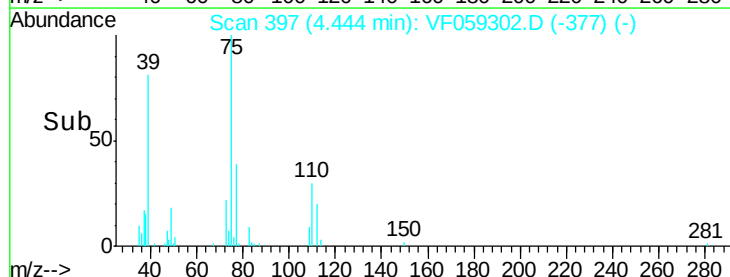
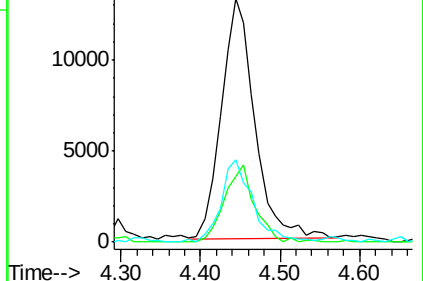
77 33.9 25.2 37.8

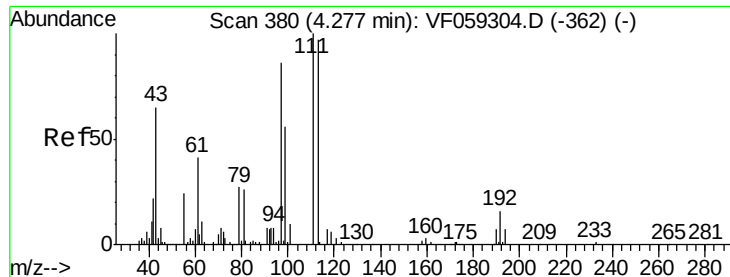


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 9.076 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

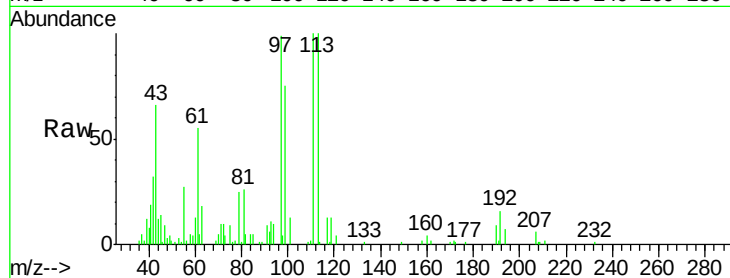
Tgt Ion: 43 Resp: 26750

Ion Ratio Lower Upper

43 100

61 84.0 50.1 75.1#

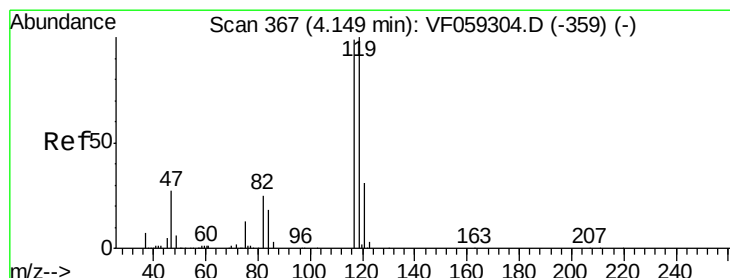
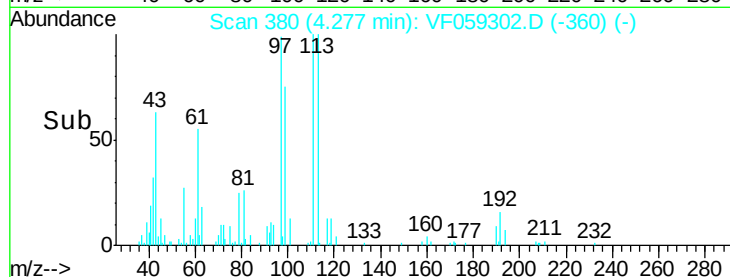
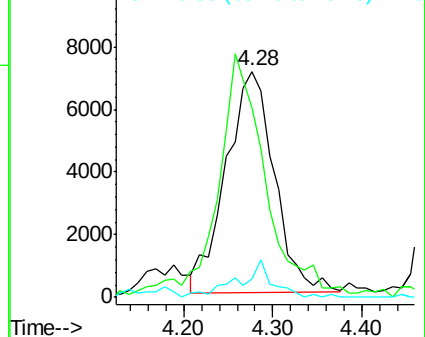
70 8.2 6.2 9.4



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: 9.359 ug/l

RT: 4.16 min Scan# 368

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

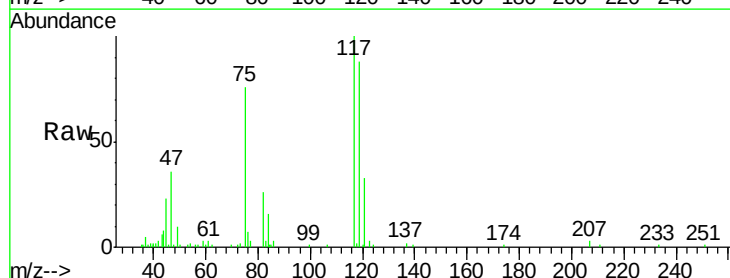
Tgt Ion: 117 Resp: 51756

Ion Ratio Lower Upper

117 100

119 88.5 81.0 121.4

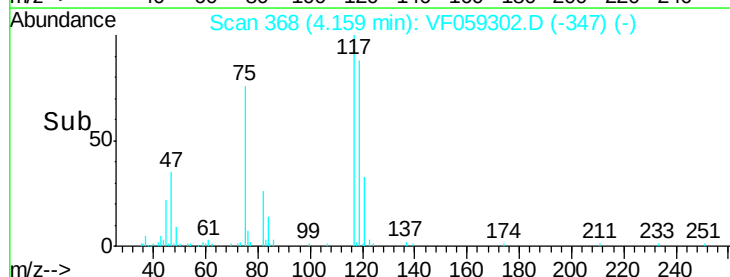
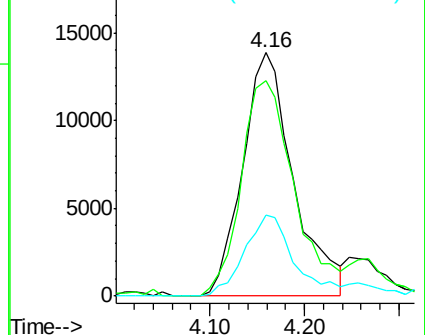
121 33.1 24.7 37.1

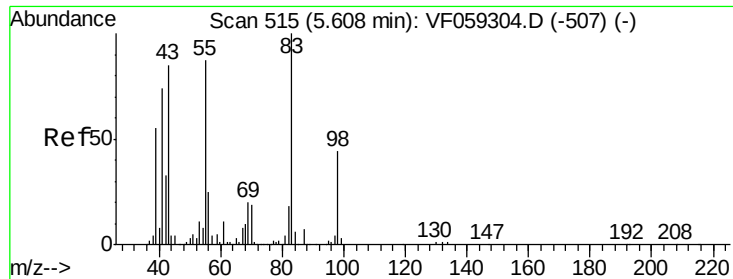


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

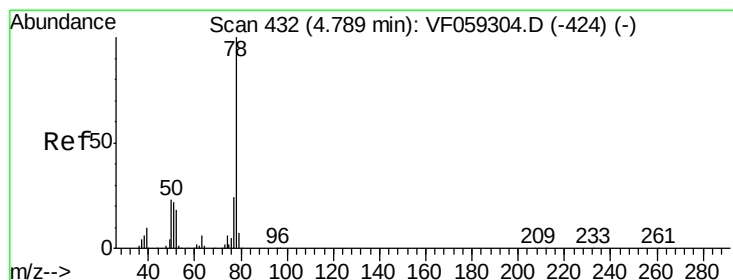
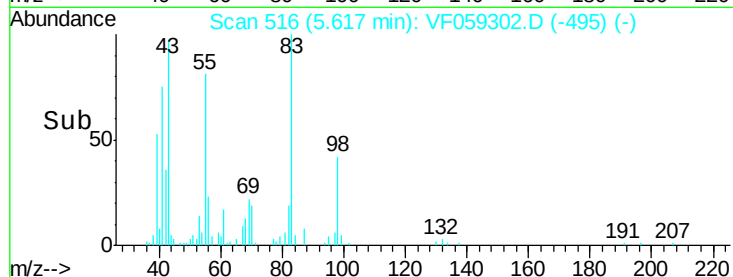
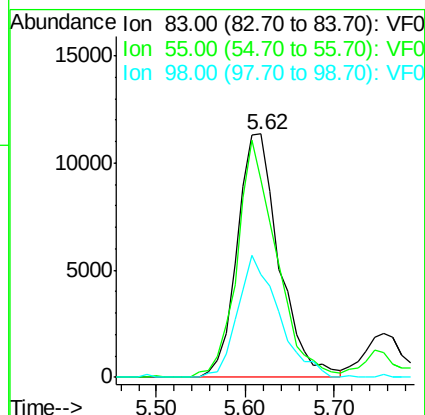
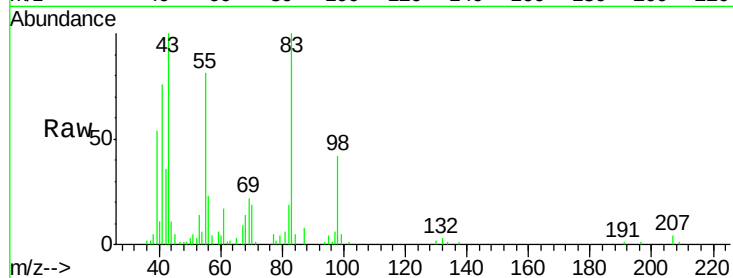




#39
Methylcyclohexane
Concen: 9.216 ug/l
RT: 5.62 min Scan# 516
Delta R.T. 0.01 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

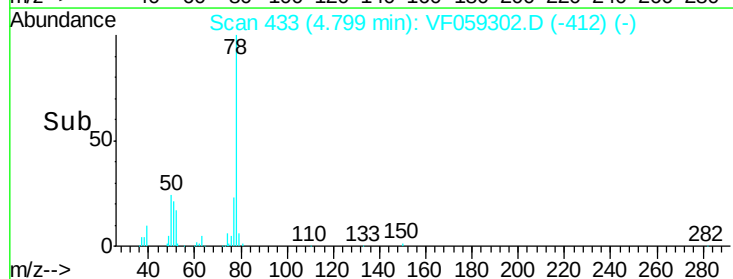
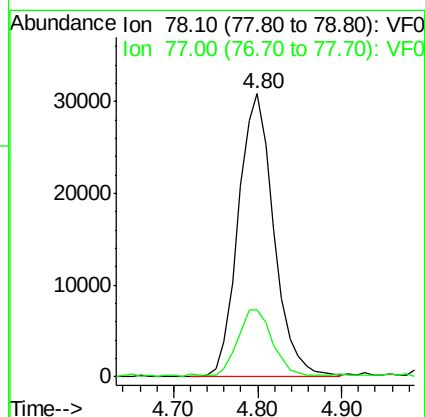
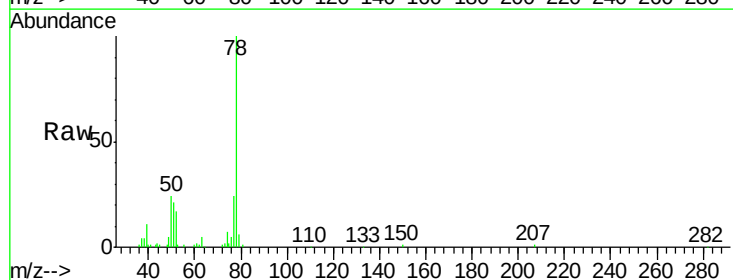
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

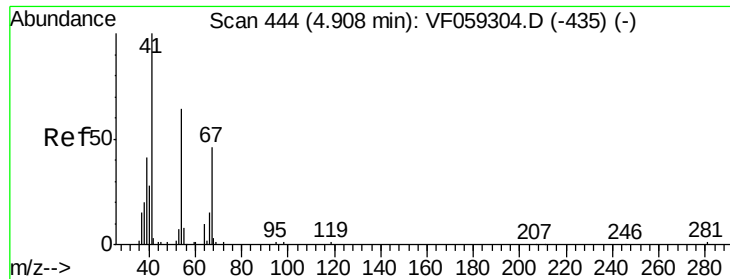
Tgt Ion: 83 Resp: 37148
Ion Ratio Lower Upper
83 100
55 81.0 69.2 103.8
98 42.0 35.0 52.6



#40
Benzene
Concen: 9.501 ug/l
RT: 4.80 min Scan# 433
Delta R.T. 0.01 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

Tgt Ion: 78 Resp: 91107
Ion Ratio Lower Upper
78 100
77 23.7 19.6 29.4

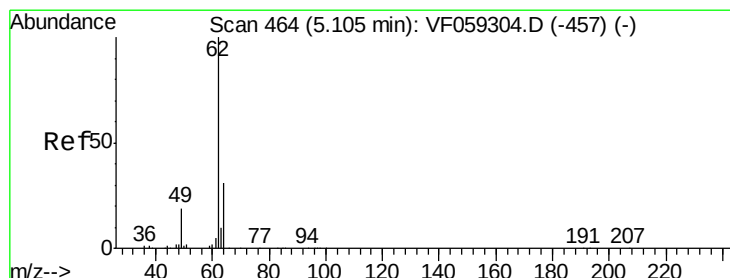
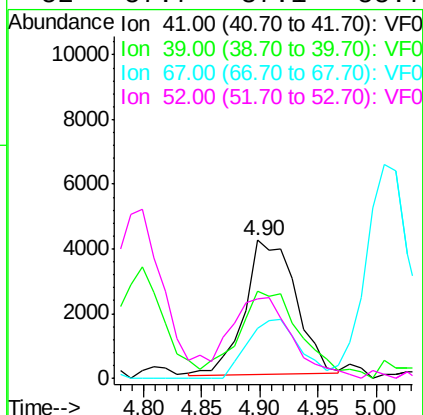
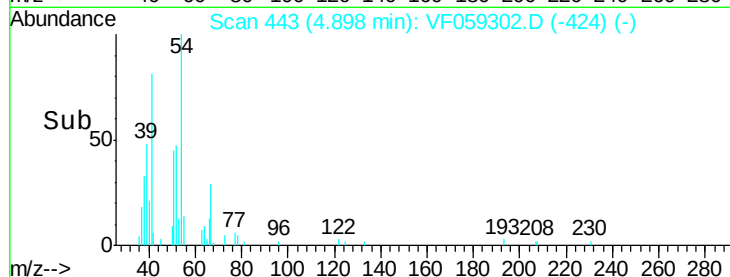
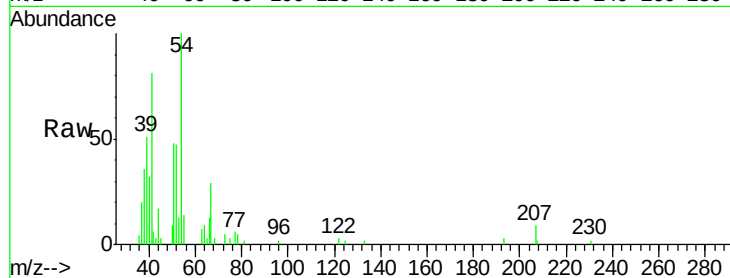




#41
Methacrylonitrile
Concen: 9.039 ug/l
RT: 4.90 min Scan# 443
Delta R.T. -0.01 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

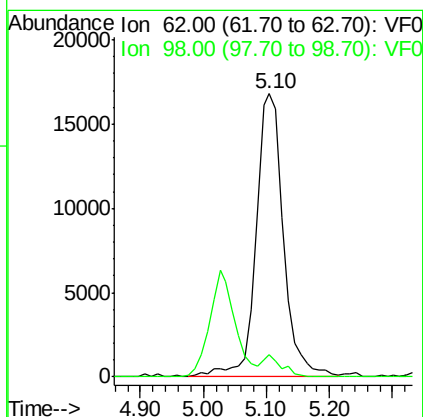
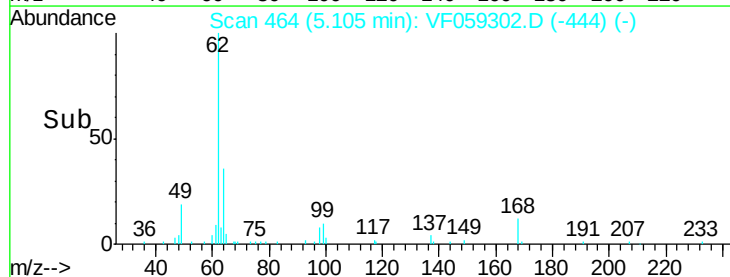
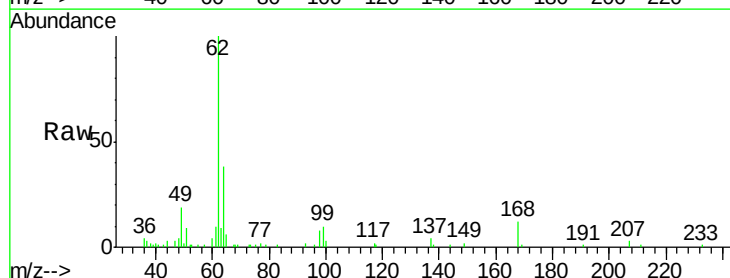
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

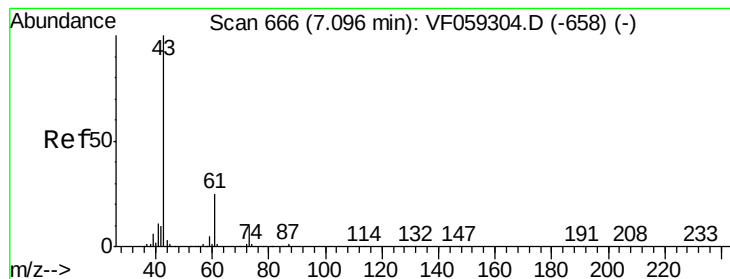
Tgt Ion: 41 Resp: 12682
Ion Ratio Lower Upper
41 100
39 63.3 50.0 75.0
67 36.1 37.0 55.6#
52 57.7 37.1 55.7#



#42
1,2-Dichloroethane
Concen: 9.296 ug/l
RT: 5.10 min Scan# 464
Delta R.T. 0.00 min
Lab File: VF059302.D
Acq: 25 Jun 2018 15:18

Tgt Ion: 62 Resp: 51194
Ion Ratio Lower Upper
62 100
98 7.8 0.0 11.4





#43

Isopropyl Acetate

Concen: 8.983 ug/l

RT: 7.11 min Scan# 667

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

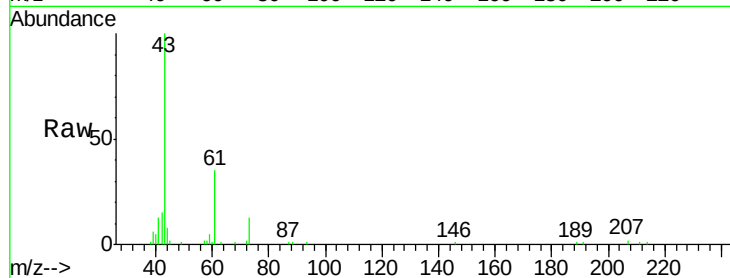
Tgt Ion: 43 Resp: 31858

Ion Ratio Lower Upper

43 100

61 34.7 19.7 29.5#

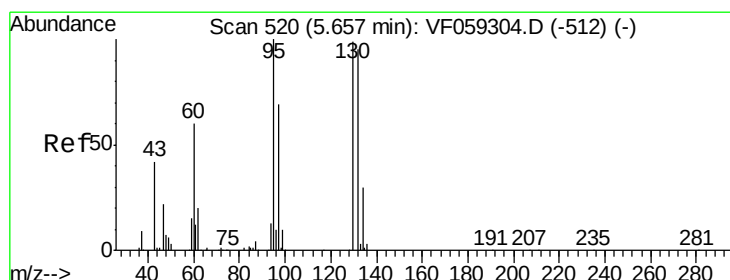
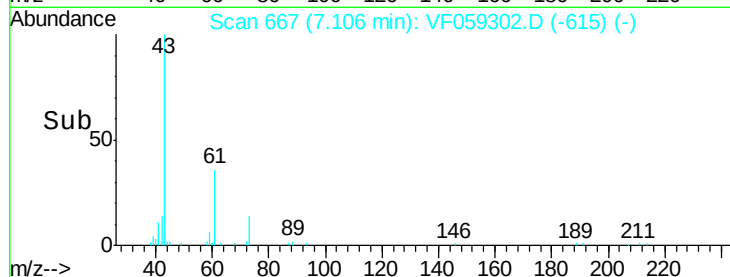
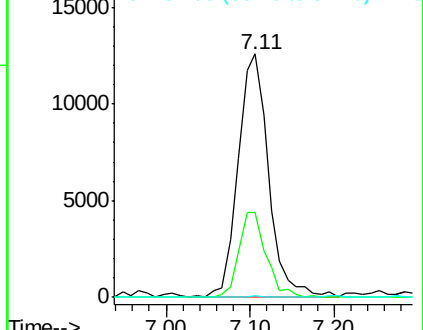
87 0.9 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 9.852 ug/l

RT: 5.67 min Scan# 521

Delta R.T. 0.01 min

Lab File: VF059302.D

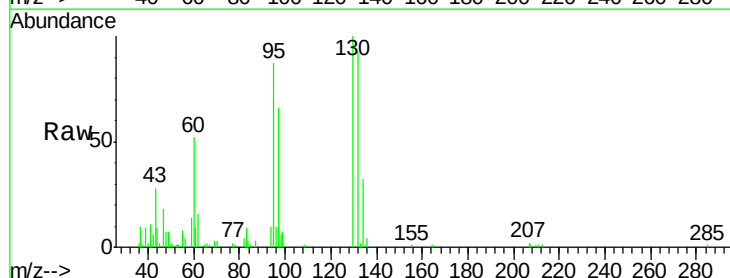
Acq: 25 Jun 2018 15:18

Tgt Ion: 130 Resp: 32485

Ion Ratio Lower Upper

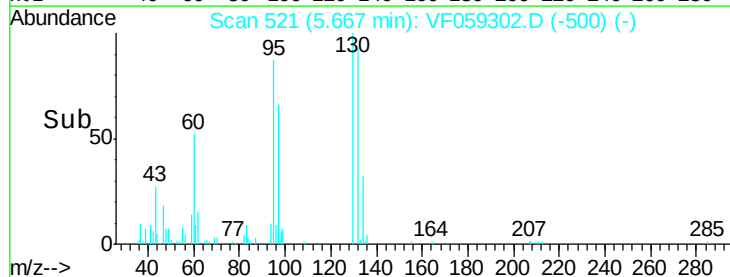
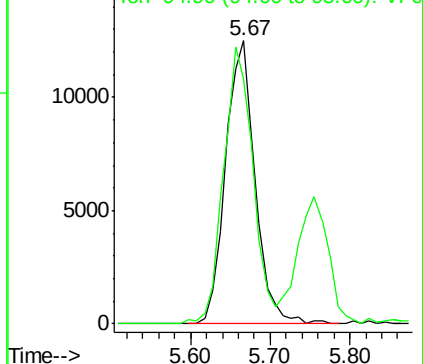
130 100

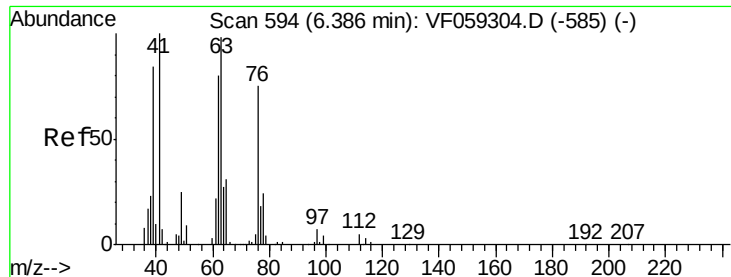
95 86.8 0.0 202.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 9.282 ug/l

RT: 6.39 min Scan# 594

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

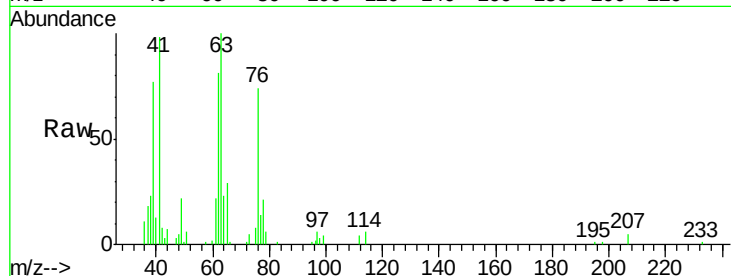
VSTDIC010

Tgt Ion: 63 Resp: 25807

Ion Ratio Lower Upper

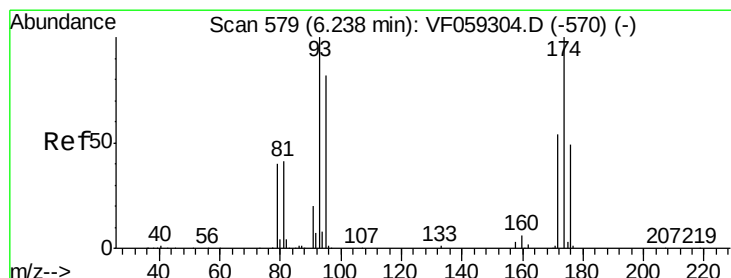
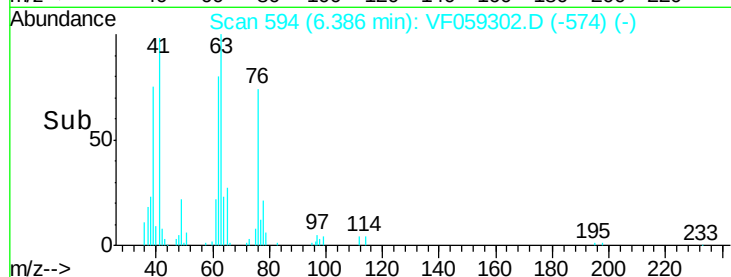
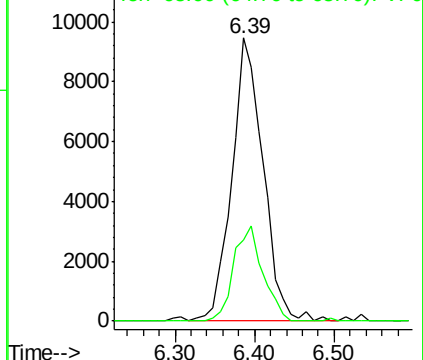
63 100

65 28.6 25.3 37.9



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 9.355 ug/l

RT: 6.25 min Scan# 580

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

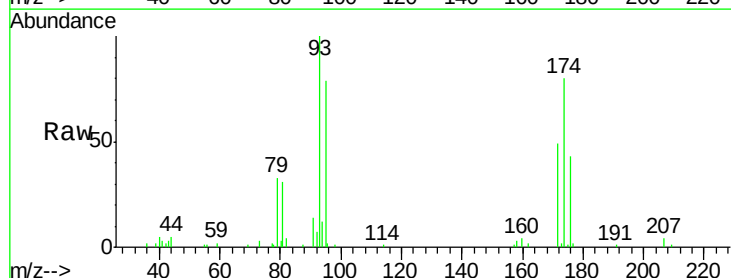
Tgt Ion: 93 Resp: 22322

Ion Ratio Lower Upper

93 100

95 80.1 65.6 98.4

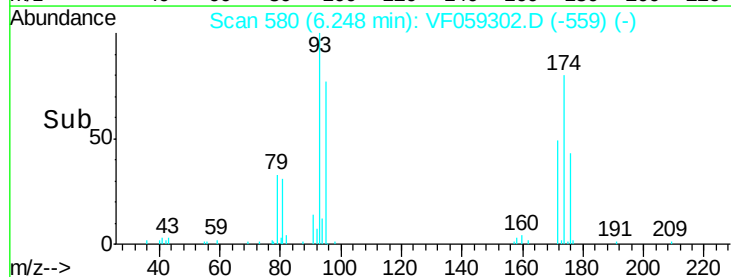
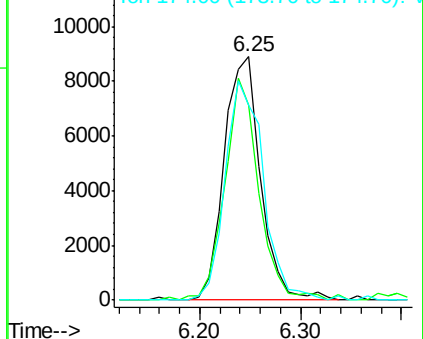
174 80.0 80.0 120.0#

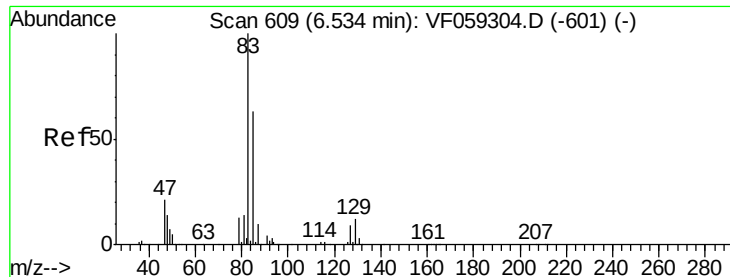


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 9.100 ug/l

RT: 6.53 min Scan# 609

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

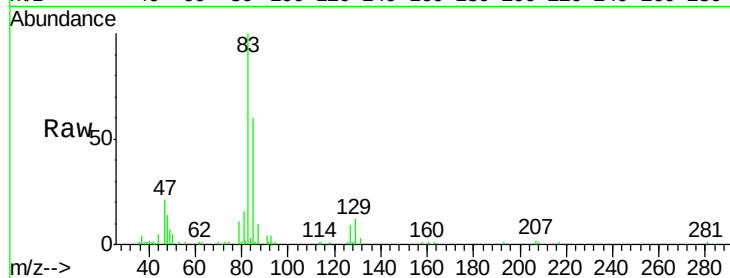
Tgt Ion: 83 Resp: 51765

Ion Ratio Lower Upper

83 100

85 60.2 50.2 75.2

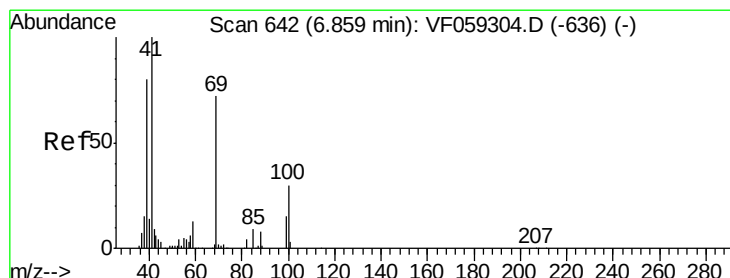
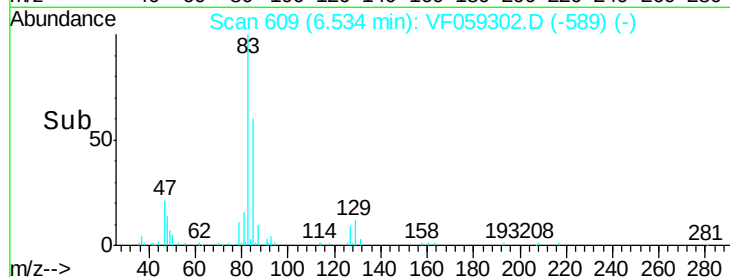
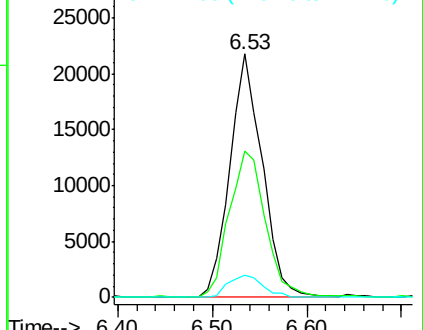
127 9.4 7.0 10.4



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: 9.331 ug/l

RT: 6.86 min Scan# 642

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

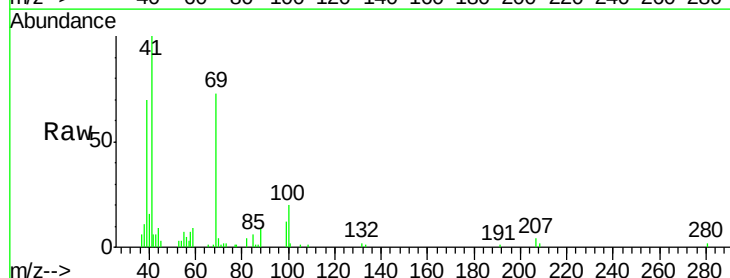
Tgt Ion: 41 Resp: 21185

Ion Ratio Lower Upper

41 100

69 73.2 57.3 85.9

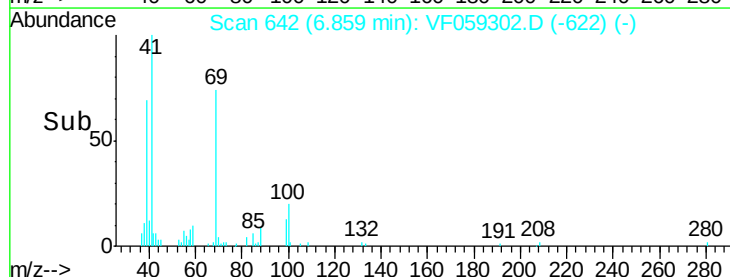
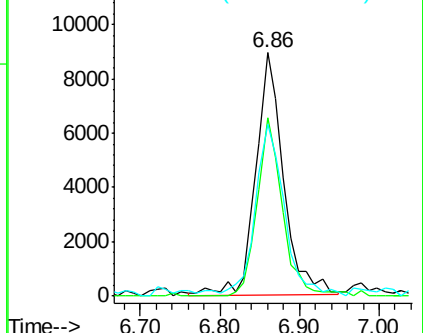
39 70.4 64.4 96.6

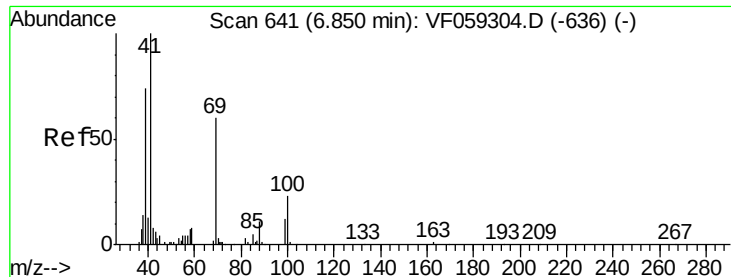


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 197.015 ug/l

RT: 6.86 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

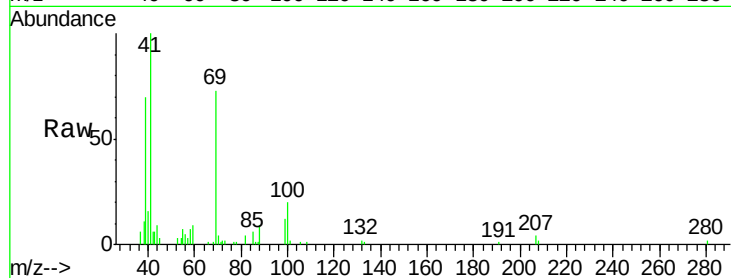
Tgt Ion: 88 Resp: 2621

Ion Ratio Lower Upper

88 100

43 72.3 50.6 75.8

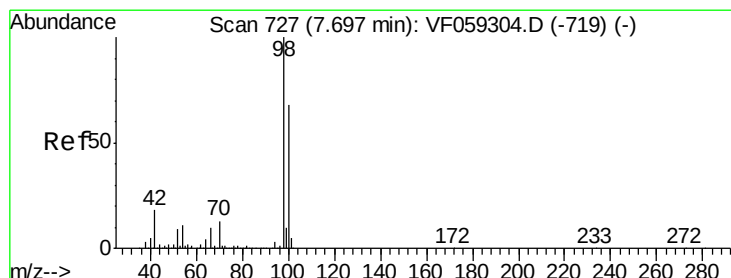
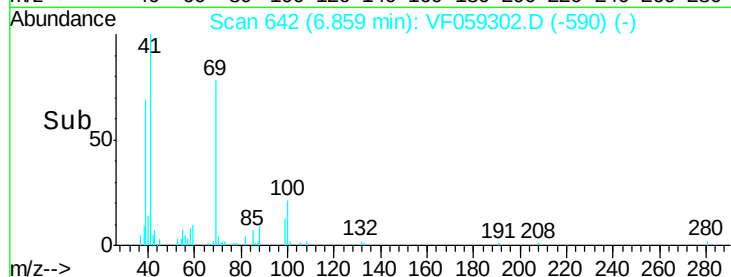
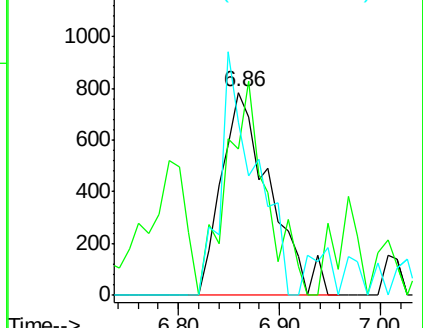
58 85.3 46.6 69.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 8.896 ug/l

RT: 7.70 min Scan# 727

Delta R.T. 0.00 min

Lab File: VF059302.D

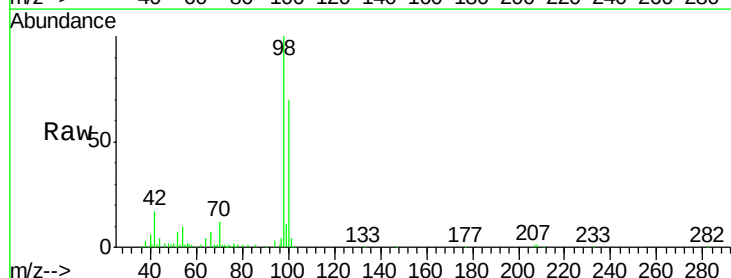
Acq: 25 Jun 2018 15:18

Tgt Ion: 98 Resp: 81950

Ion Ratio Lower Upper

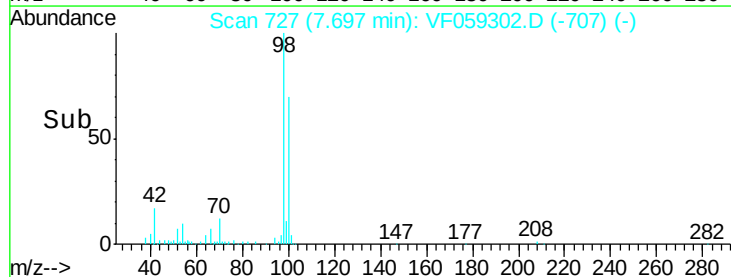
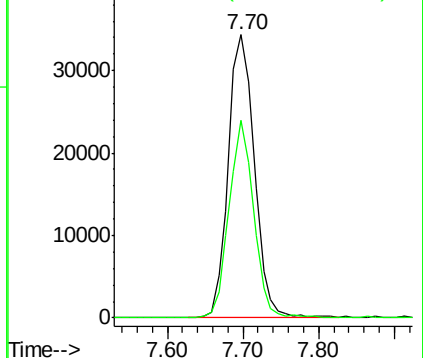
98 100

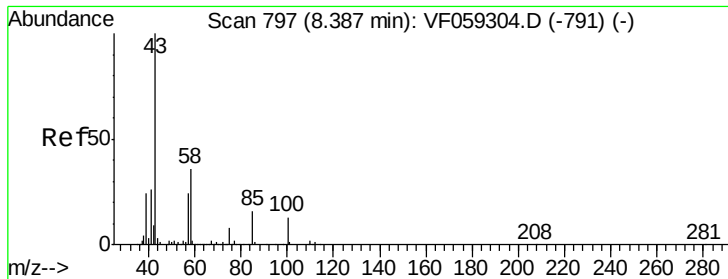
100 69.9 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 49.568 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

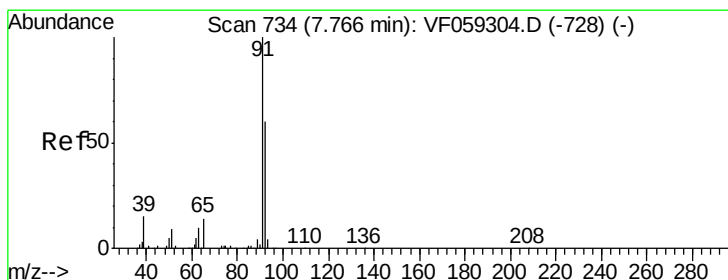
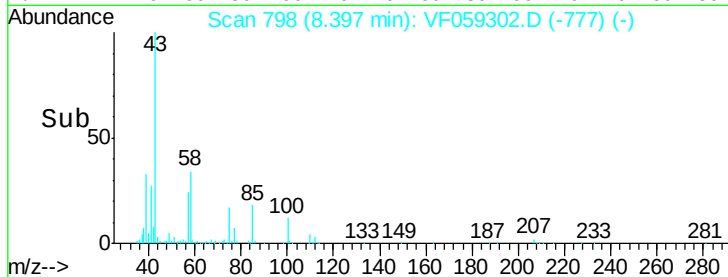
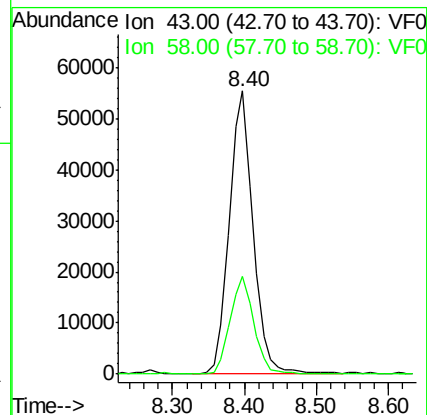
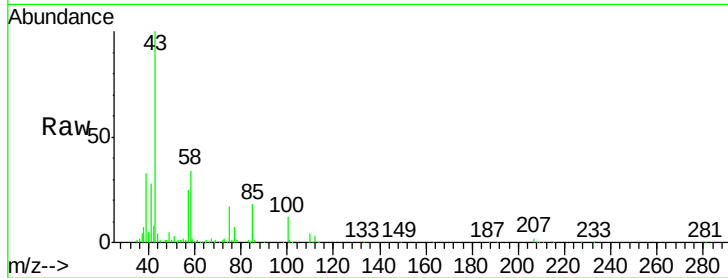
VSTDIC010

Tgt Ion: 43 Resp: 126941

Ion Ratio Lower Upper

43 100

58 34.4 28.4 42.6



#52

Toluene

Concen: 9.138 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.00 min

Lab File: VF059302.D

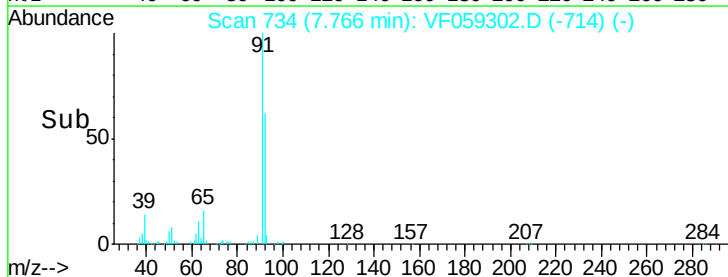
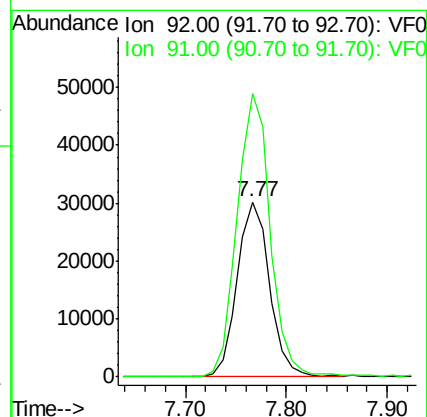
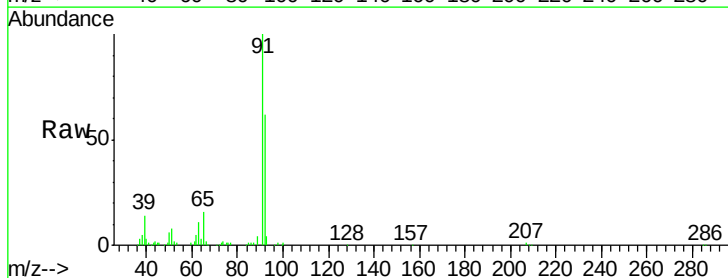
Acq: 25 Jun 2018 15:18

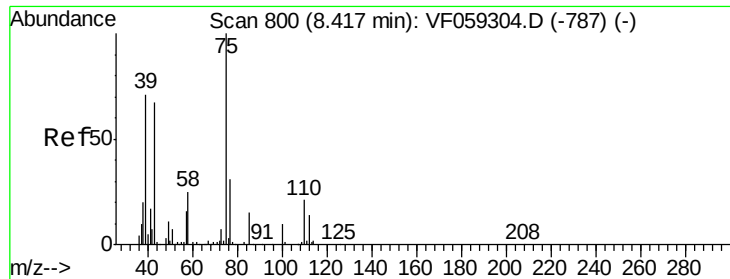
Tgt Ion: 92 Resp: 67777

Ion Ratio Lower Upper

92 100

91 161.6 132.8 199.2





#53

t-1,3-Dichloropropene

Concen: 8.668 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

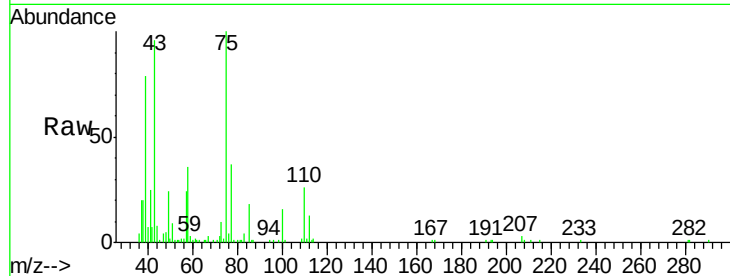
VSTDIC010

Tgt Ion: 75 Resp: 46058

Ion Ratio Lower Upper

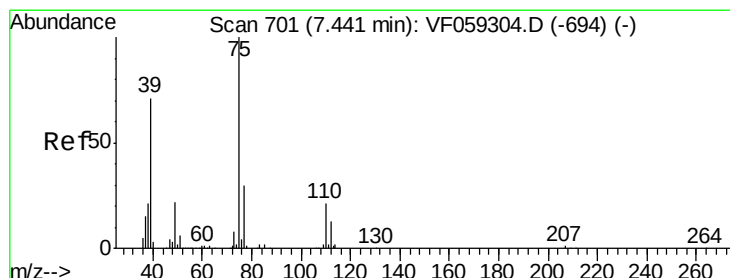
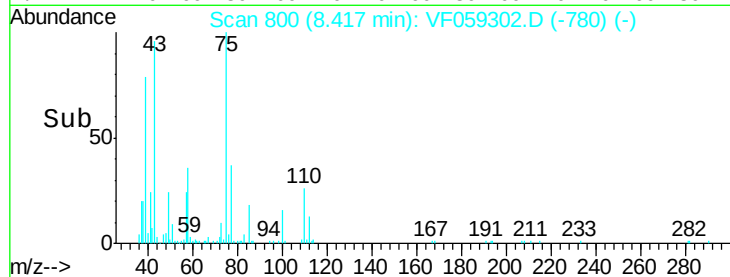
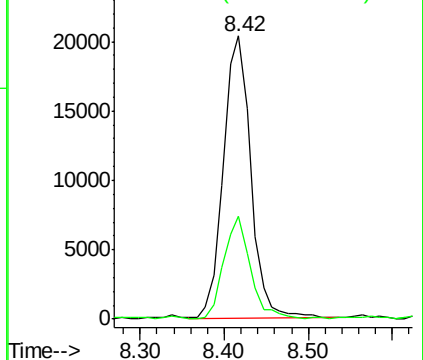
75 100

77 36.5 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 8.921 ug/l

RT: 7.44 min Scan# 701

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

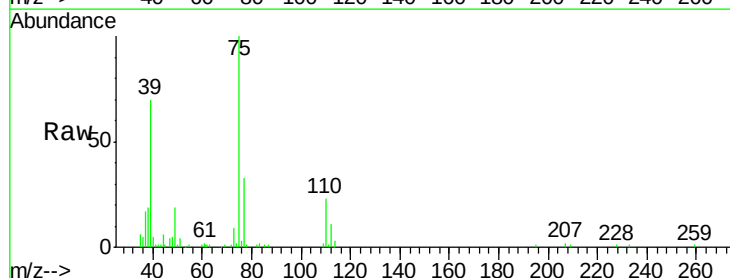
Tgt Ion: 75 Resp: 50394

Ion Ratio Lower Upper

75 100

77 32.6 24.3 36.5

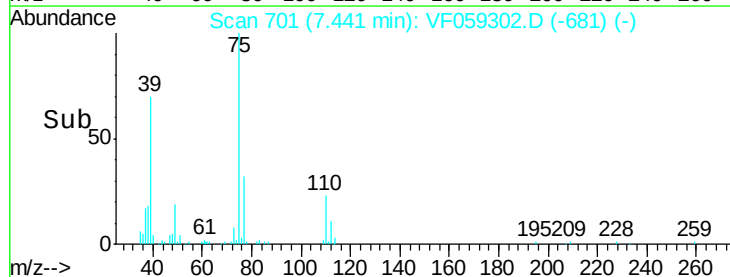
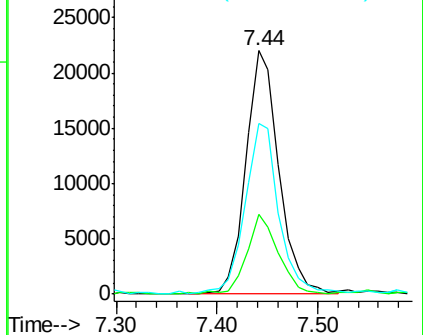
39 70.1 57.2 85.8

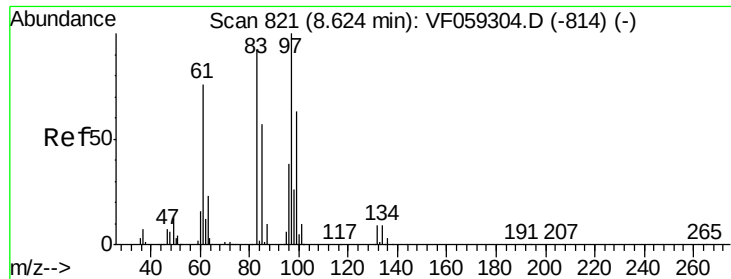


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 8.795 ug/l

RT: 8.62 min Scan# 821

Delta R.T. 0.00 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 25210

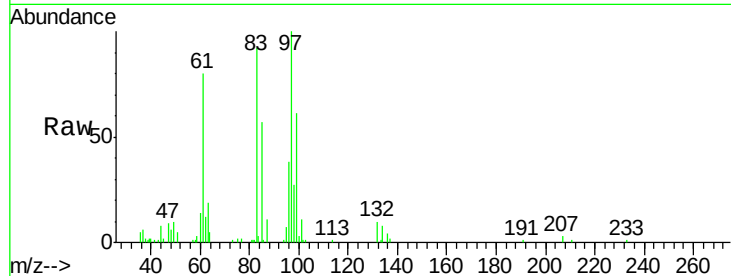
Ion Ratio Lower Upper

97 100

83 91.8 73.8 110.8

85 56.9 45.5 68.3

99 61.0 50.7 76.1

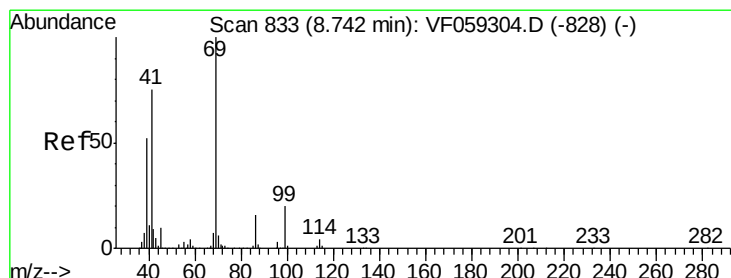
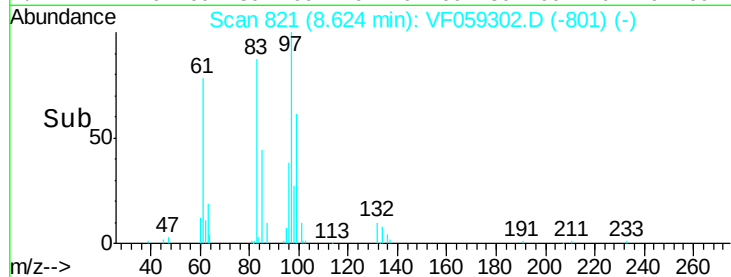
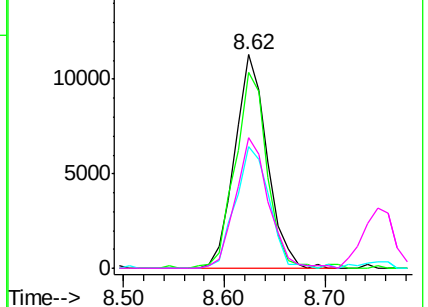


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 9.218 ug/l

RT: 8.75 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF059302.D

Acq: 25 Jun 2018 15:18

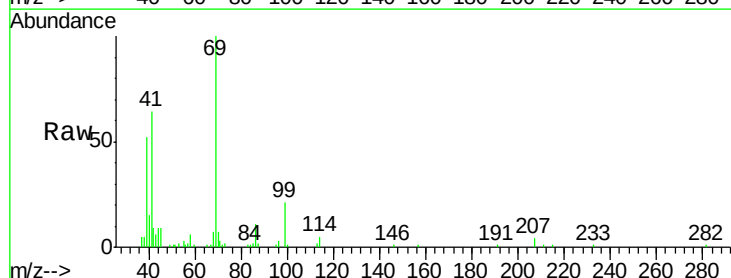
Tgt Ion: 69 Resp: 30361

Ion Ratio Lower Upper

69 100

41 63.6 60.3 90.5

39 51.5 42.2 63.4



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

