

Data Path : W:\HPCHEM1\MSVOA F\DATA\VF052218\
 Data File : VF057966.D
 Acq On : 23 May 2018 2:35
 Operator : JC/SY
 Sample : VSTDCCC050
 Misc : 5.01g/5mL/MSVOA-F/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 08:33:42 2018
 Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F050918S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 10 02:30:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	359425	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.75	114	569626	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.90	117	593650	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	327642	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.00	65	254731	59.64	ug/l	0.02
Spiked Amount	50.000		Recovery	=	119.28%	
35) Dibromofluoromethane	4.27	113	248869	61.10	ug/l	0.02
Spiked Amount	50.000		Recovery	=	122.20%	
50) Toluene-d8	7.69	98	736398	58.97	ug/l	0.02
Spiked Amount	50.000		Recovery	=	117.94%	
62) 4-Bromofluorobenzene	11.49	95	367673	58.73	ug/l	0.02
Spiked Amount	50.000		Recovery	=	117.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	200382	53.89	ug/l	95
3) Chloromethane	1.08	50	163614	54.68	ug/l	99
4) Vinyl Chloride	1.14	62	129265	54.78	ug/l	96
5) Bromomethane	1.33	94	61229	45.56	ug/l	97
6) Chloroethane	1.42	64	48549	55.93	ug/l	100
7) Trichlorofluoromethane	1.48	101	55350	15.84	ug/l	94
8) Diethyl Ether	1.69	74	49669	54.18	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.89	101	120033	62.25	ug/l	94
10) Methyl Iodide	1.95	142	215785	57.10	ug/l	99
11) Tert butyl alcohol	2.67	59	64954	284.55	ug/l #	76
12) 1,1-Dichloroethene	1.84	96	111159	57.80	ug/l	86
13) Acrolein	2.08	56	31155	268.83	ug/l #	80
14) Allyl chloride	2.18	41	195704	57.07	ug/l #	97
15) Acrylonitrile	3.06	53	143842	320.18	ug/l	96
16) Acetone	2.33	43	190699	203.57	ug/l	98
17) Carbon Disulfide	1.86	76	223795	45.52	ug/l #	92
18) Methyl Acetate	2.43	43	104480	63.25	ug/l	95
19) Methyl tert-butyl Ether	2.52	73	371927	62.38	ug/l	92
20) Methylene Chloride	2.26	84	53483	28.98	ug/l	94
21) trans-1,2-Dichloroethene	2.40	96	109797	55.12	ug/l	98
22) Diisopropyl ether	2.91	45	459486	59.36	ug/l	96
23) Vinyl Acetate	3.31	43	1547351	277.62	ug/l	99
24) 1,1-Dichloroethane	2.98	63	278106	62.25	ug/l	99
25) 2-Butanone	4.48	43	435829	282.46	ug/l	95
26) 2,2-Dichloropropane	3.74	77	167854	49.39	ug/l	100
27) cis-1,2-Dichloroethene	3.61	96	221748	60.42	ug/l	97
28) Bromochloromethane	3.86	49	181544	70.53	ug/l #	92
29) Tetrahydrofuran	4.23	42	189991	288.77	ug/l	98
30) Chloroform	4.01	83	446895	62.26	ug/l	99
31) Cyclohexane	3.83	56	240280	52.88	ug/l	98
32) 1,1,1-Trichloroethane	4.25	97	291922	59.56	ug/l	99
36) 1,1-Dichloropropene	4.44	75	283151	55.76	ug/l	97
37) Ethyl Acetate	4.27	43	184386	56.89	ug/l	89
38) Carbon Tetrachloride	4.15	117	339126	62.85	ug/l	98

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 Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F050918S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 10 02:30:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.60	83	290444	54.28	ug/l	97
40) Benzene	4.79	78	723066	58.45	ug/l	99
41) Methacrylonitrile	4.90	41	104508	61.72	ug/l	96
42) 1,2-Dichloroethane	5.10	62	303016	58.08	ug/l	96
43) Isopropyl Acetate	7.10	43	257844	53.66	ug/l #	97
44) Trichloroethene	5.65	130	195075	50.24	ug/l	94
45) 1,2-Dichloropropane	6.38	63	222294	62.65	ug/l	96
46) Dibromomethane	6.23	93	165368	60.65	ug/l #	80
47) Bromodichloromethane	6.53	83	379166	62.27	ug/l	98
48) Methyl methacrylate	6.85	41	176230	55.63	ug/l	95
49) 1,4-Dioxane	6.85	88	22067	1009.60	ug/l #	80
51) 4-Methyl-2-Pentanone	8.39	43	914928	313.72	ug/l	93
52) Toluene	7.76	92	519596	58.40	ug/l	99
53) t-1,3-Dichloropropene	8.41	75	324330	53.05	ug/l	98
54) cis-1,3-Dichloropropene	7.43	75	389469	57.92	ug/l	96
55) 1,1,2-Trichloroethane	8.62	97	208262	61.88	ug/l	94
56) Ethyl methacrylate	8.74	69	253775	54.55	ug/l	100
57) 1,3-Dichloropropane	8.98	76	331532	56.98	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.76	63	77563	119.55	ug/l	100
59) 2-Hexanone	9.61	43	692522	278.72	ug/l	97
60) Dibromochloromethane	8.84	129	287186	56.85	ug/l	94
61) 1,2-Dibromoethane	9.12	107	234297	59.26	ug/l	99
64) Tetrachloroethene	8.29	164	241077	61.21	ug/l	97
65) Chlorobenzene	9.92	112	607159	54.00	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.05	131	254192	56.35	ug/l	97
67) Ethyl Benzene	10.02	91	1078899	55.05	ug/l	99
68) m/p-Xylenes	10.25	106	782619	110.97	ug/l	86
69) o-Xylene	10.81	106	439218	56.03	ug/l	93
70) Styrene	10.89	104	650263	52.83	ug/l	96
71) Bromoform	10.87	173	165726	47.35	ug/l	96
73) Isopropylbenzene	11.22	105	1190223	57.82	ug/l	98
74) N-amyl acetate	11.45	43	460191	57.34	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	313467	59.33	ug/l	98
76) 1,2,3-Trichloropropane	11.88	75	221603	57.53	ug/l	91
77) Bromobenzene	11.58	156	306963	55.82	ug/l	94
78) n-propylbenzene	11.68	91	1386941	54.86	ug/l	95
79) 2-Chlorotoluene	11.80	91	851154	56.72	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	958208	53.69	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.95	75	131591	51.56	ug/l	93
82) 4-Chlorotoluene	11.98	91	902545	55.08	ug/l	100
83) tert-Butylbenzene	12.20	119	978856	55.12	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	994386	54.35	ug/l	99
85) sec-Butylbenzene	12.38	105	1314116	56.32	ug/l	98
86) p-Isopropyltoluene	12.53	119	1074997	53.25	ug/l	98
87) 1,3-Dichlorobenzene	12.55	146	540227	52.06	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	551651	55.03	ug/l	98
89) n-Butylbenzene	12.91	91	1070651	61.93	ug/l	98
90) Hexachloroethane	12.98	117	263649	54.26	ug/l	78
91) 1,2-Dichlorobenzene	13.01	146	539004	56.55	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.70	75	59443	55.89	ug/l	72

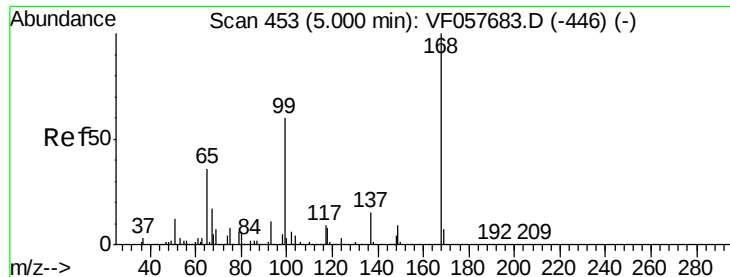
Data Path : W:\HPCHEM1\MSVOA F\DATA\VF052218\
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Quant Title : SW846 8260
QLast Update : Thu May 10 02:30:18 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	348551	50.61	ug/l	98
94) Hexachlorobutadiene	14.24	225	203864	53.76	ug/l	97
95) Naphthalene	14.51	128	813239	55.34	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	342838	54.10	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

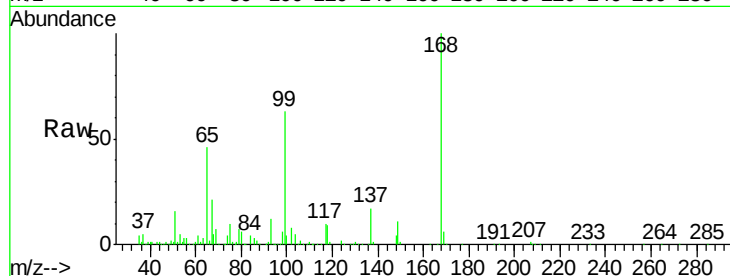
ClientSampled :

Tot Ion:168 Resp: 359425

Ion Ratio Lower Upper

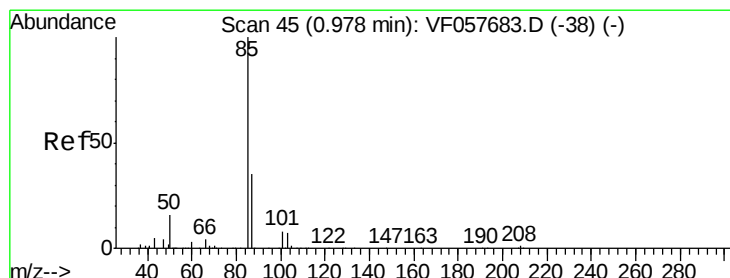
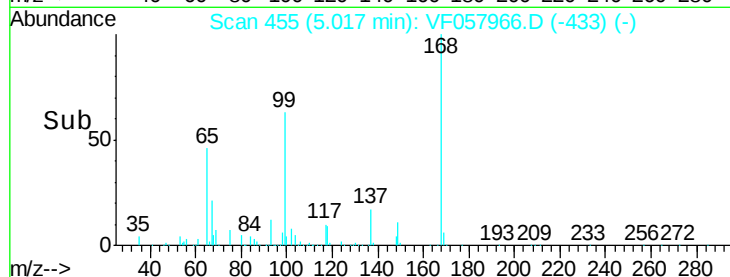
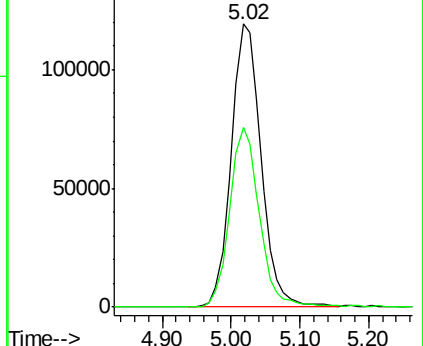
168 100

99 63.4 48.5 72.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 53.89 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF057966.D

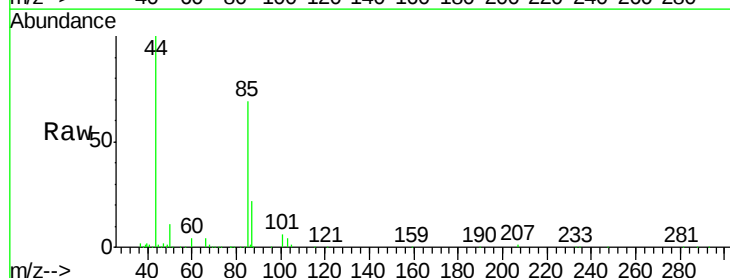
Acq: 23 May 2018 2:35

Tgt Ion: 85 Resp: 200382

Ion Ratio Lower Upper

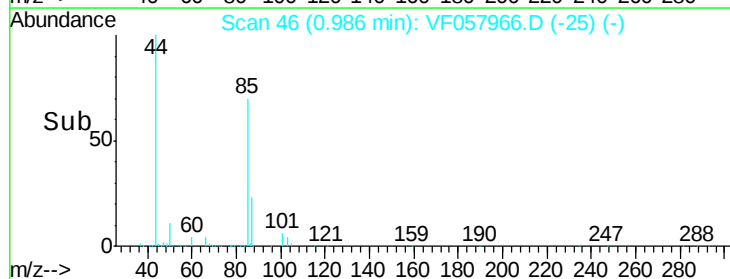
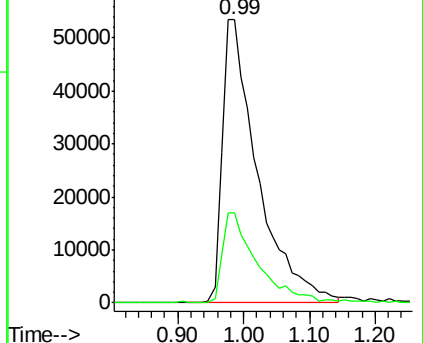
85 100

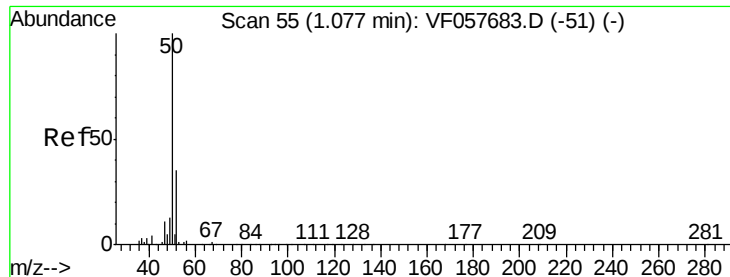
87 32.0 17.6 52.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 54.68 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

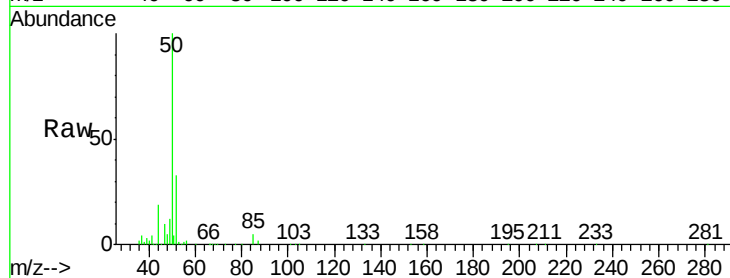
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 163614

Ion Ratio Lower Upper

50 100

52 33.5 27.3 40.9



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

100000

80000

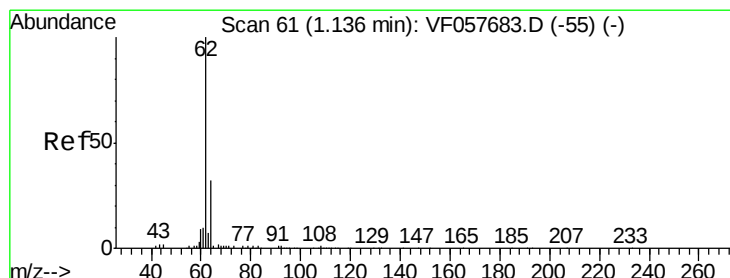
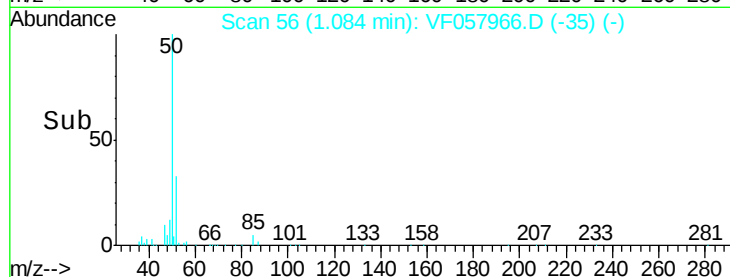
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 54.78 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.01 min

Lab File: VF057966.D

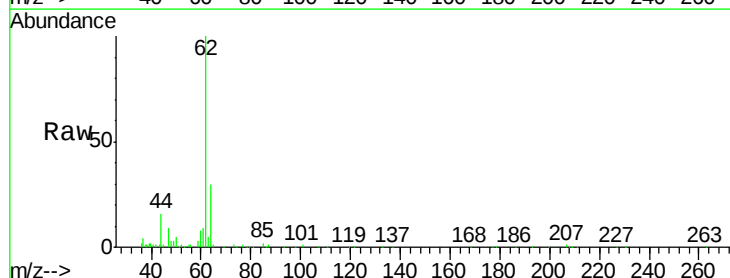
Acq: 23 May 2018 2:35

Tgt Ion: 62 Resp: 129265

Ion Ratio Lower Upper

62 100

64 30.1 25.8 38.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.14

60000

50000

40000

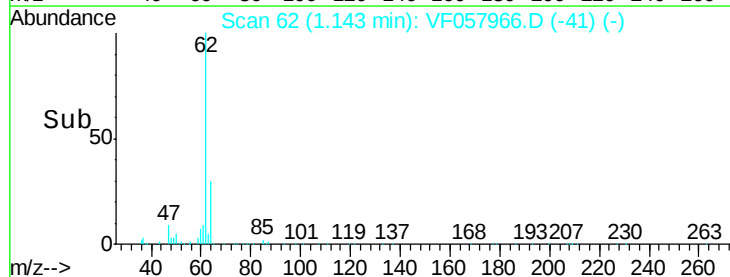
30000

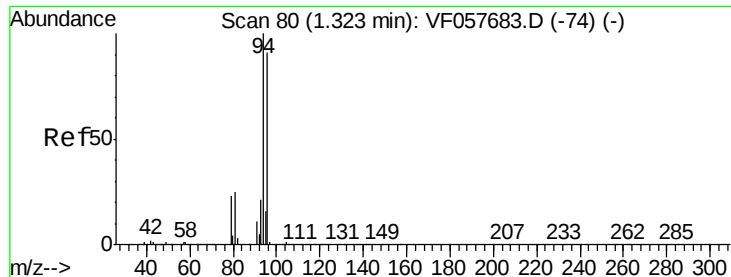
20000

10000

0

Time-->





#5

Bromomethane

Concen: 45.56 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

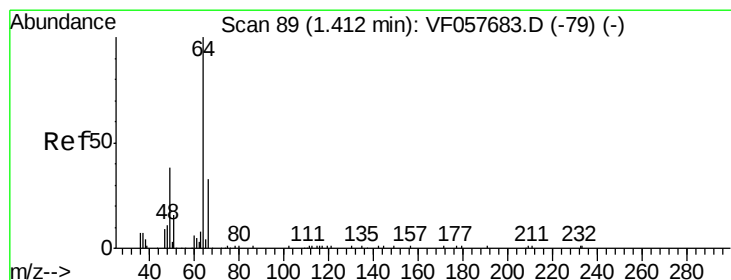
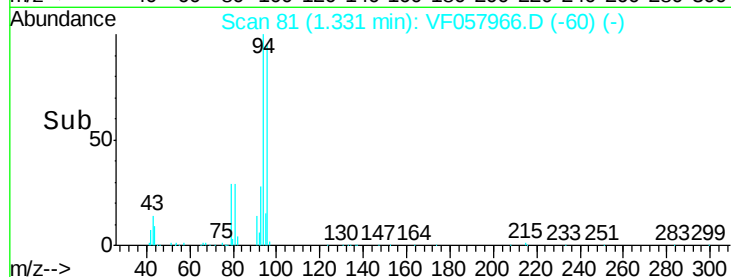
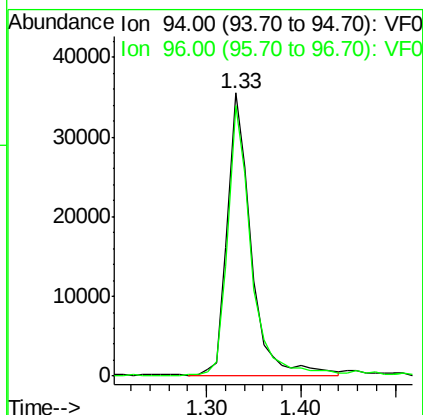
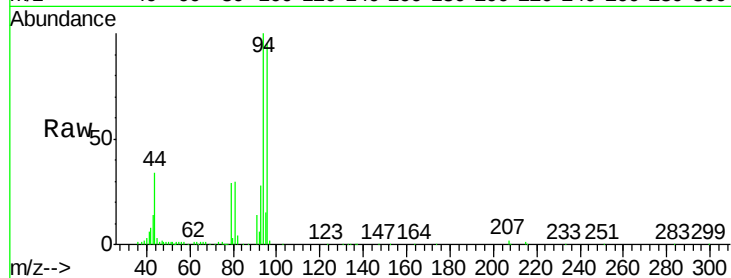
ClientSampleId :

Tot Ion: 94 Resp: 61229

Ion Ratio Lower Upper

94 100

96 95.4 73.7 110.5



#6

Chloroethane

Concen: 55.93 ug/l

RT: 1.42 min Scan# 90

Delta R.T. 0.01 min

Lab File: VF057966.D

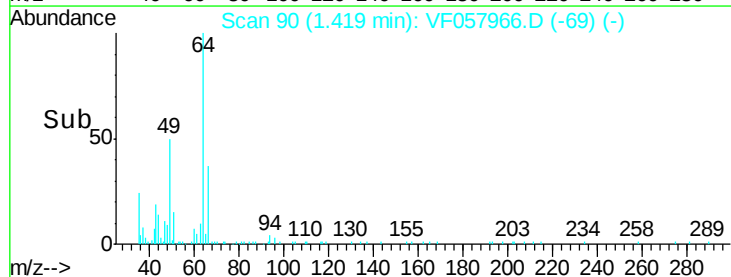
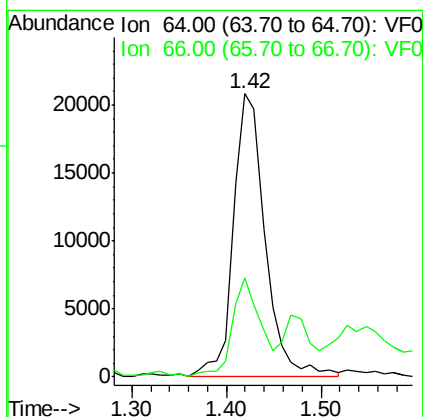
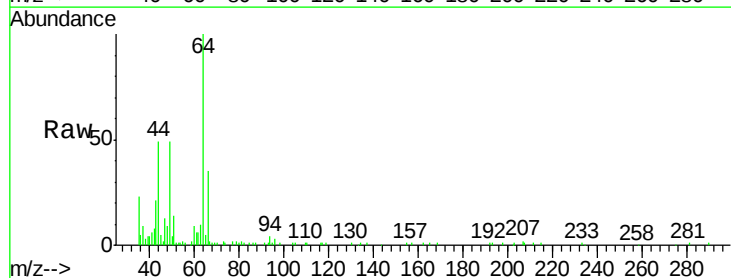
Acq: 23 May 2018 2:35

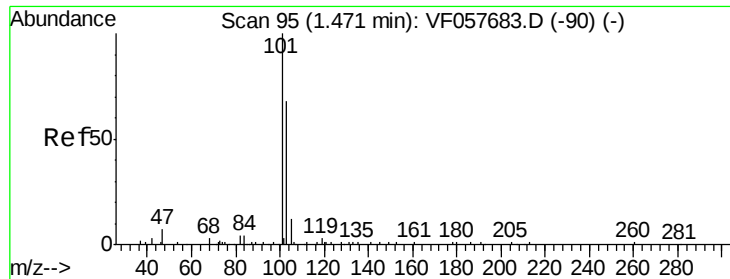
Tgt Ion: 64 Resp: 48549

Ion Ratio Lower Upper

64 100

66 34.9 27.9 41.9





#7

Trichlorofluoromethane

Concen: 15.84 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

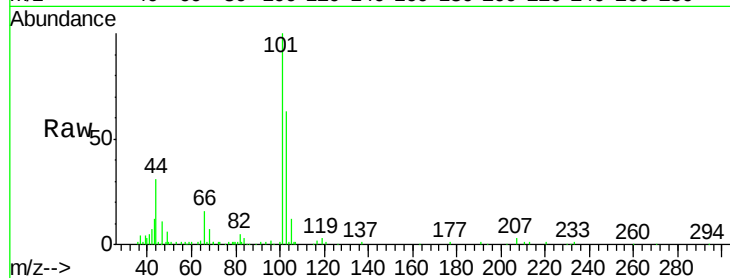
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:101 Resp: 55350

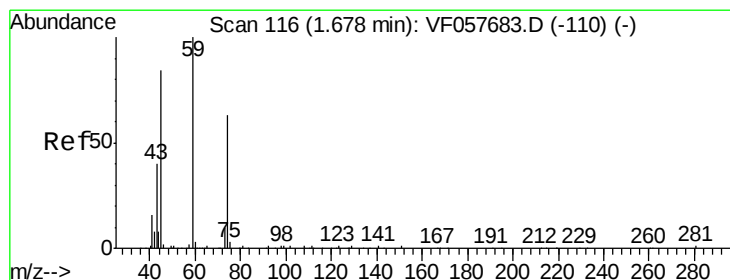
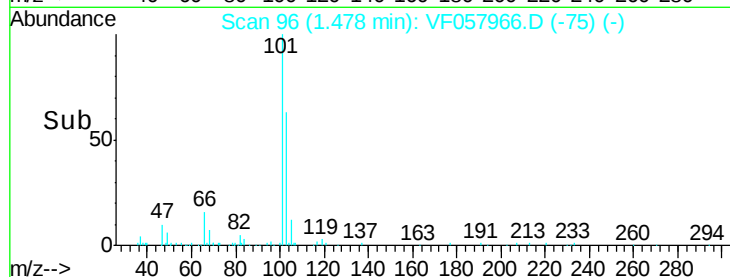
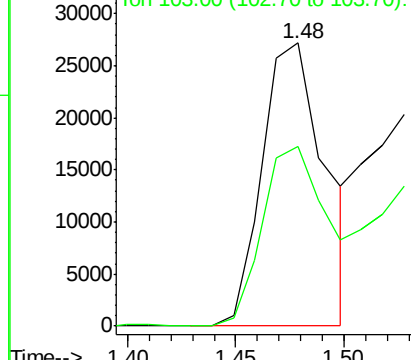
Ion Ratio Lower Upper

101 100

103 63.4 54.6 81.8



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 54.18 ug/l

RT: 1.69 min Scan# 117

Delta R.T. 0.01 min

Lab File: VF057966.D

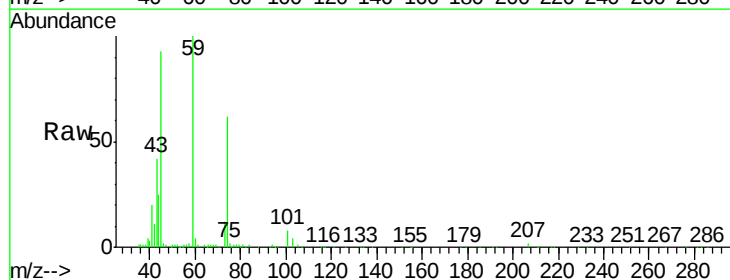
Acq: 23 May 2018 2:35

Tgt Ion: 74 Resp: 49669

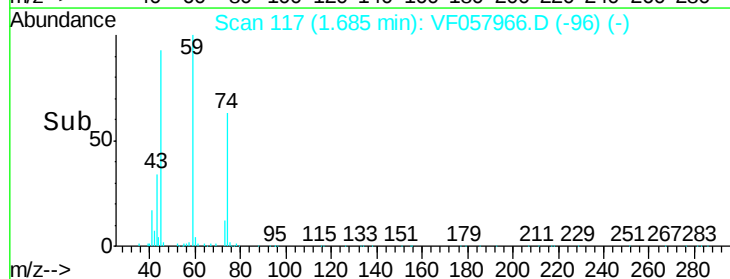
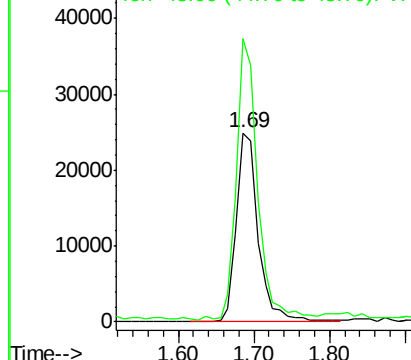
Ion Ratio Lower Upper

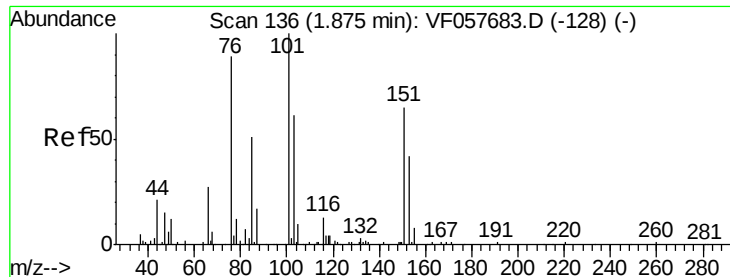
74 100

45 149.9 69.6 208.8



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: 62.25 ug/l

RT: 1.89 min Scan# 138

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampled :

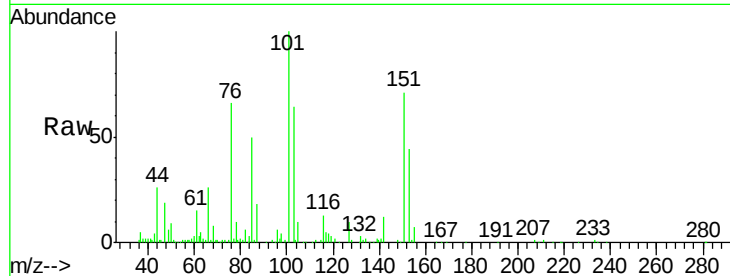
Tot Ion:101 Resp: 120033

Ion Ratio Lower Upper

101 100

85 50.4 41.2 61.8

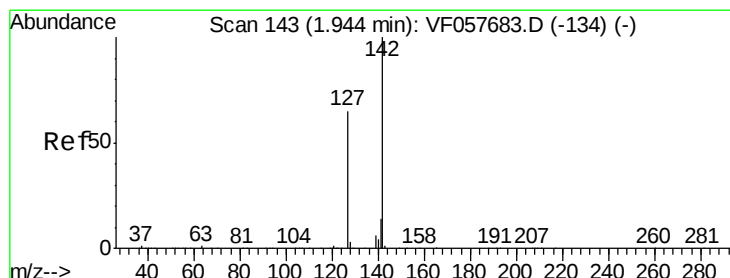
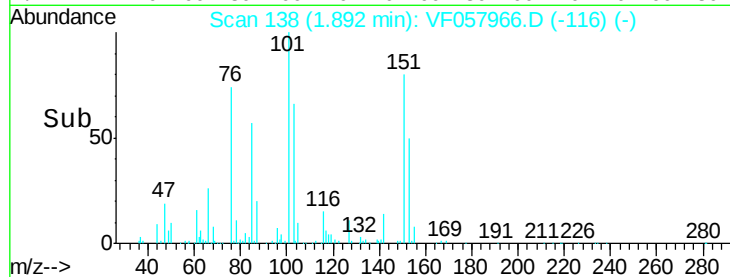
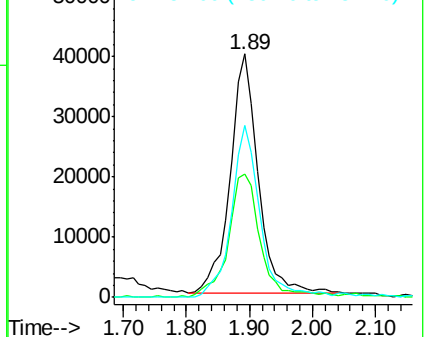
151 70.7 50.5 75.7



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: 57.10 ug/l

RT: 1.95 min Scan# 144

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

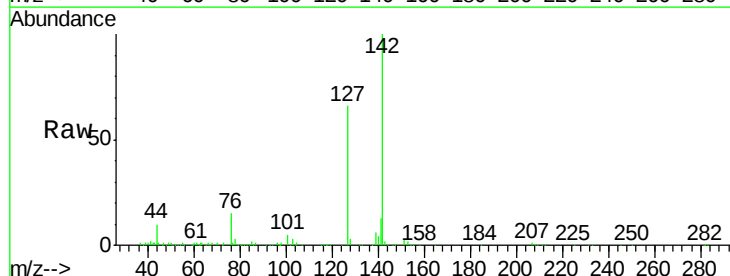
Tgt Ion:142 Resp: 215785

Ion Ratio Lower Upper

142 100

127 65.6 51.9 77.9

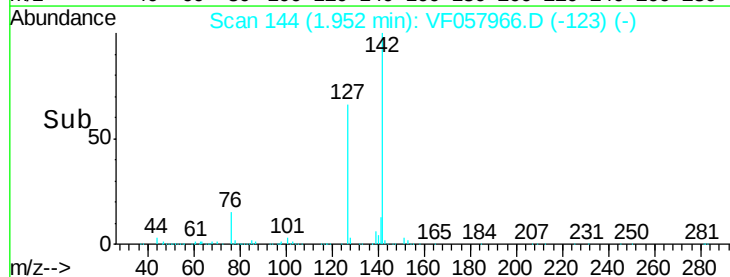
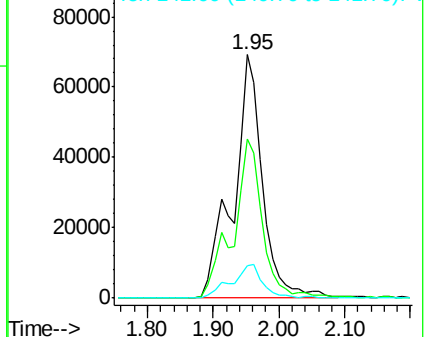
141 13.2 11.8 17.6

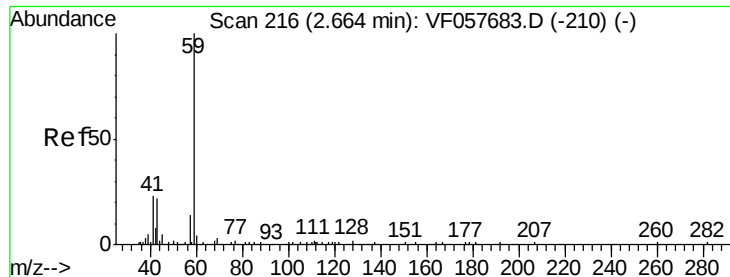


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



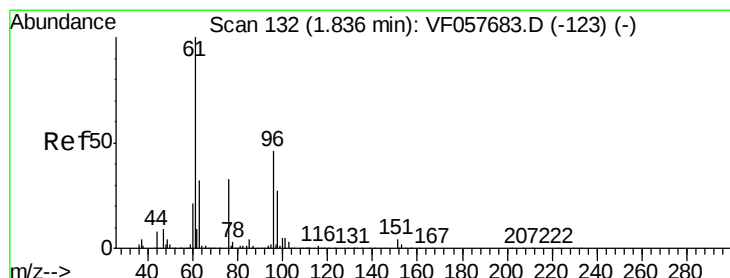
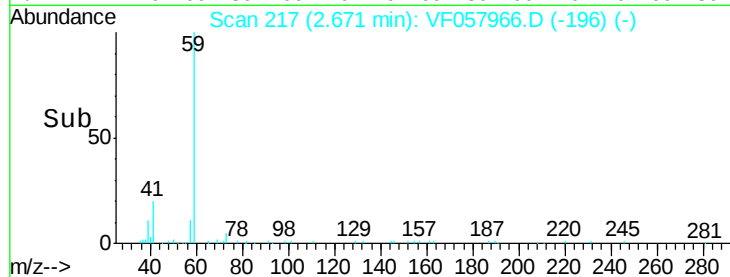
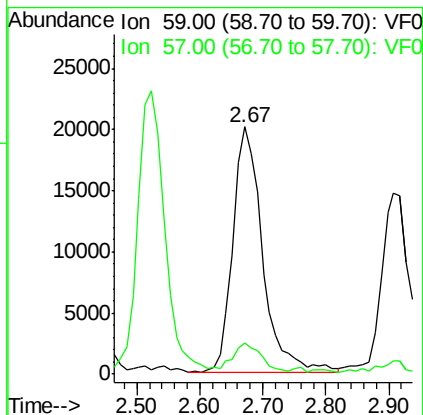
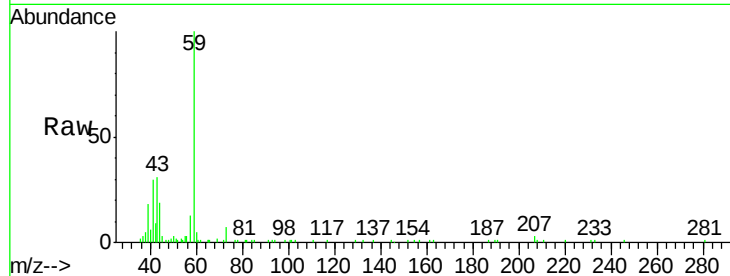


#11

Tert butyl alcohol
Concen: 284.55 ug/l
RT: 2.67 min Scan# 217
Delta R.T. 0.01 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Instrument :
MSVOA_X
ClientSampleId :

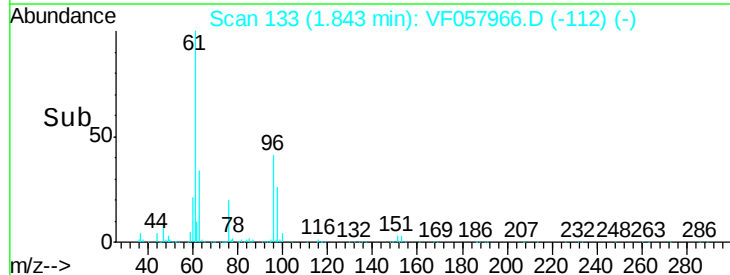
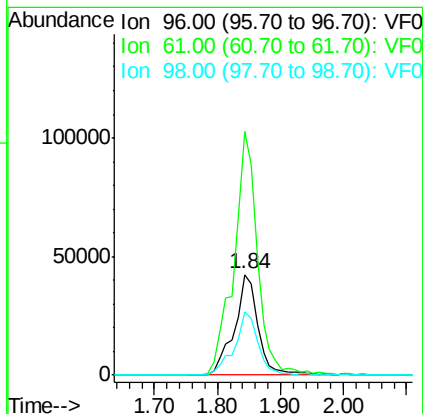
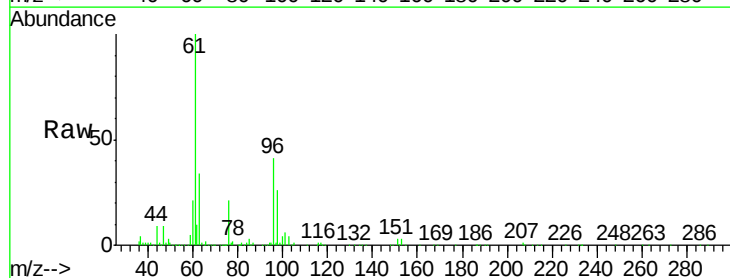
Tot Ion: 59 Resp: 64954
Ion Ratio Lower Upper
59 100
57 12.8 19.8 29.6#

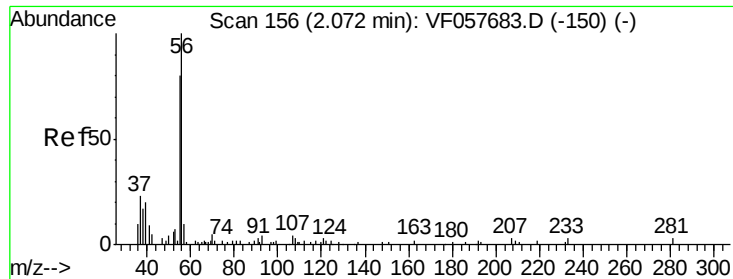


#12

1,1-Dichloroethene
Concen: 57.80 ug/l
RT: 1.84 min Scan# 133
Delta R.T. 0.01 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Tgt Ion: 96 Resp: 111159
Ion Ratio Lower Upper
96 100
61 242.9 173.4 260.2
98 62.7 47.8 71.8





#13

Acrolein

Concen: 268.83 ug/l

RT: 2.08 min Scan# 157

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

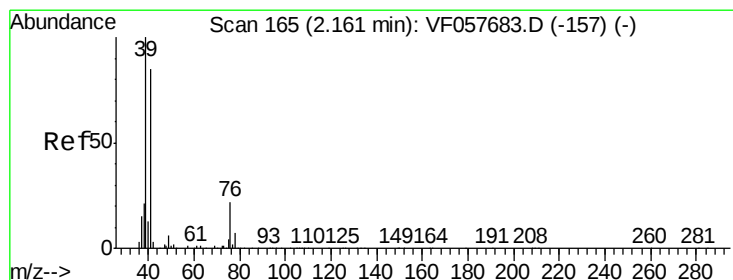
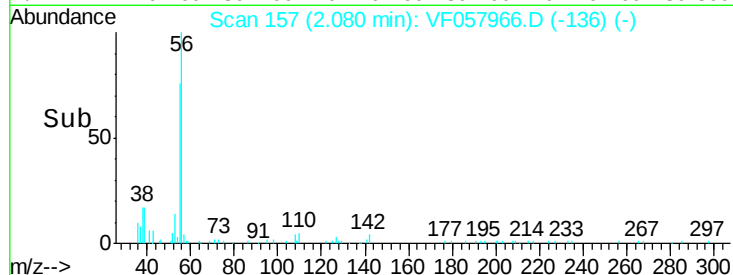
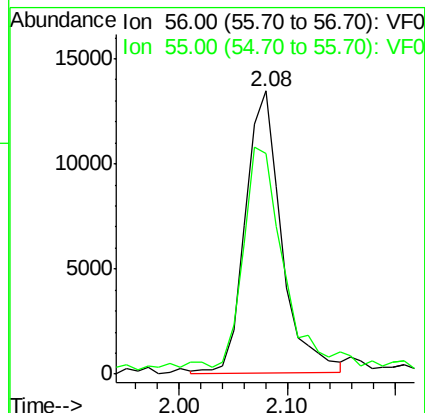
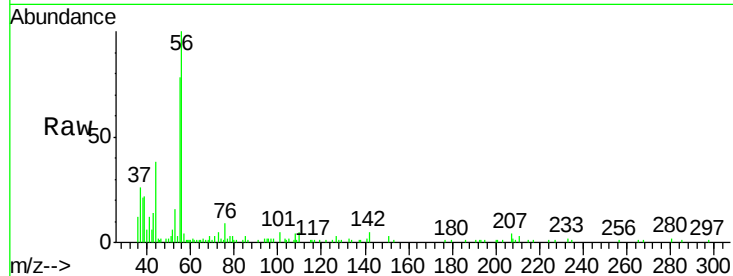
ClientSampleId :

Tot Ion: 56 Resp: 31155

Ion Ratio Lower Upper

56 100

55 78.1 78.2 117.2#



#14

Allyl chloride

Concen: 57.07 ug/l

RT: 2.18 min Scan# 167

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

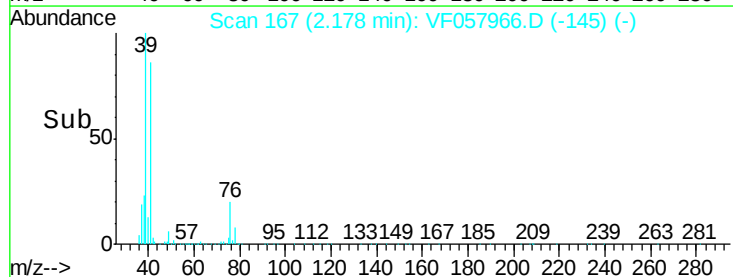
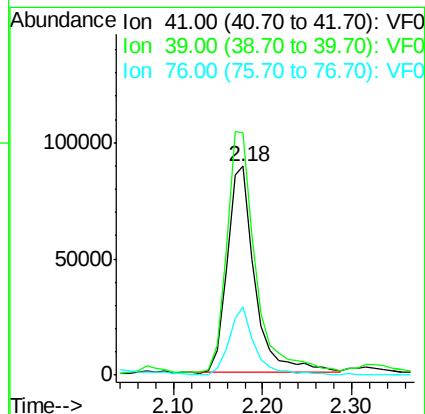
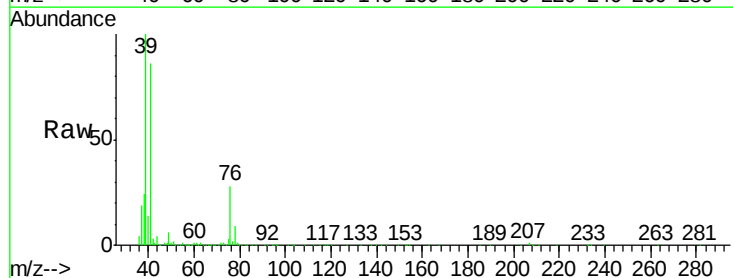
Tgt Ion: 41 Resp: 195704

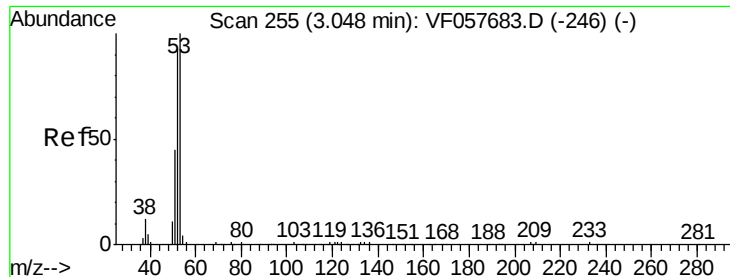
Ion Ratio Lower Upper

41 100

39 115.9 92.1 138.1

76 32.5 19.8 29.6#





#15

Acrylonitrile

Concen: 320.18 ug/l

RT: 3.06 min Scan# 256

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :
MSVOA_X
ClientSampleId :

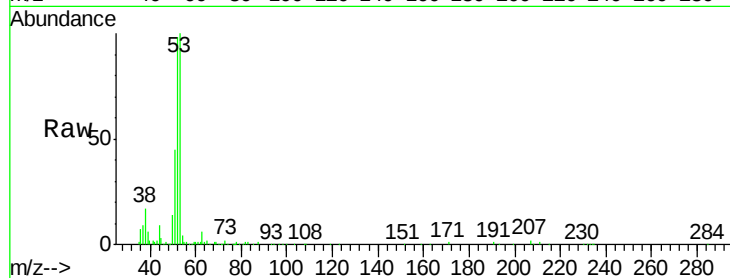
Tot Ion: 53 Resp: 143842

Ion Ratio Lower Upper

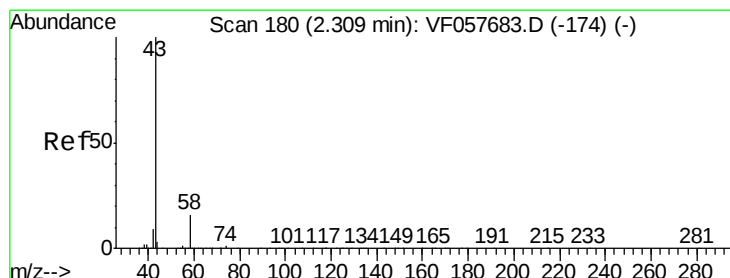
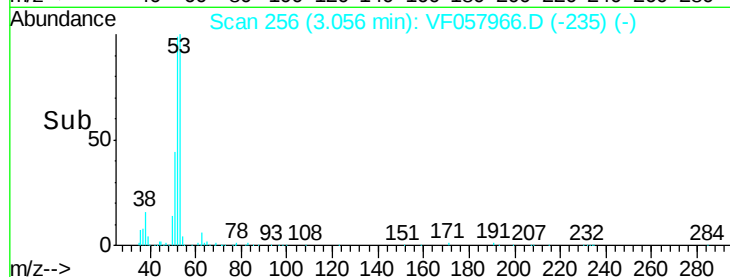
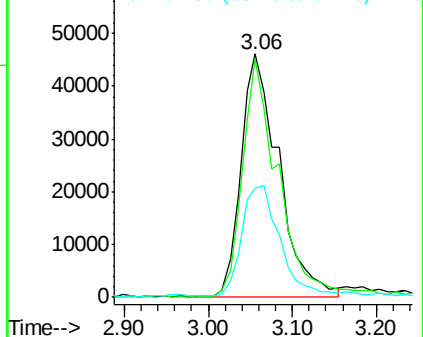
53 100

52 98.2 74.4 111.6

51 44.7 37.0 55.6



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 203.57 ug/l

RT: 2.33 min Scan# 182

Delta R.T. 0.02 min

Lab File: VF057966.D

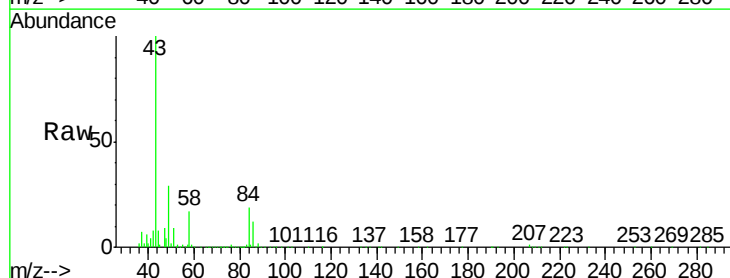
Acq: 23 May 2018 2:35

Tgt Ion: 43 Resp: 190699

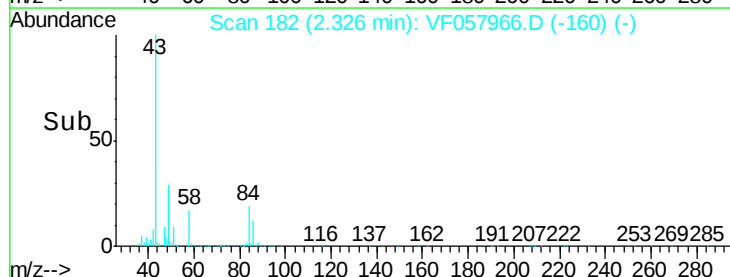
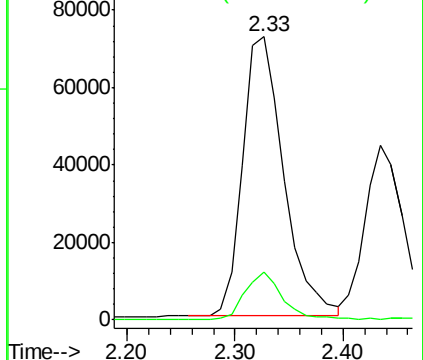
Ion Ratio Lower Upper

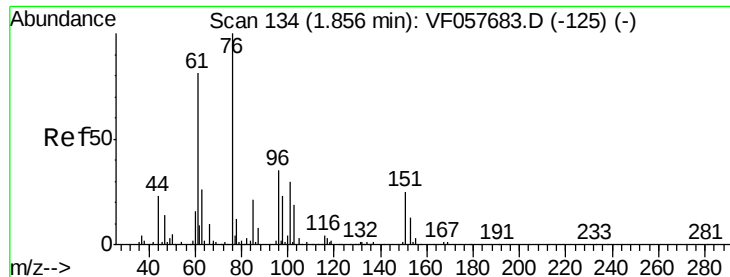
43 100

58 17.0 13.0 19.6



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

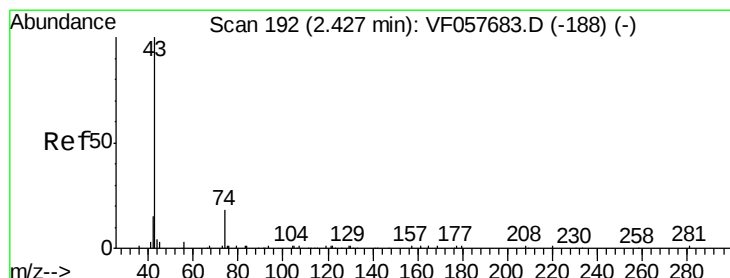
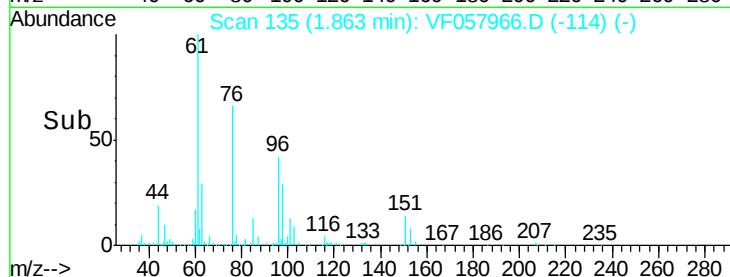
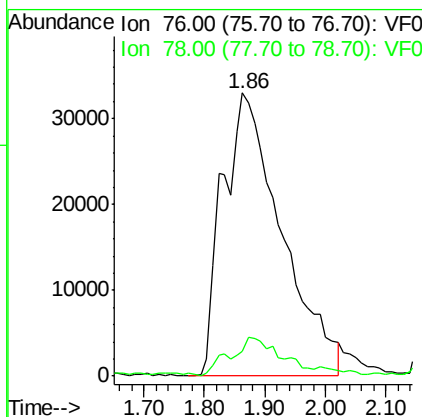
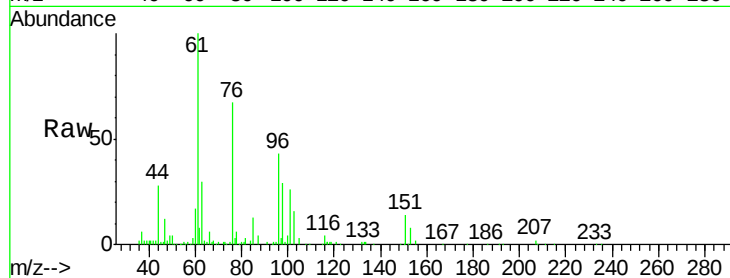




#17
Carbon Disulfide
Concen: 45.52 ug/l
RT: 1.86 min Scan# 135
Delta R.T. 0.01 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

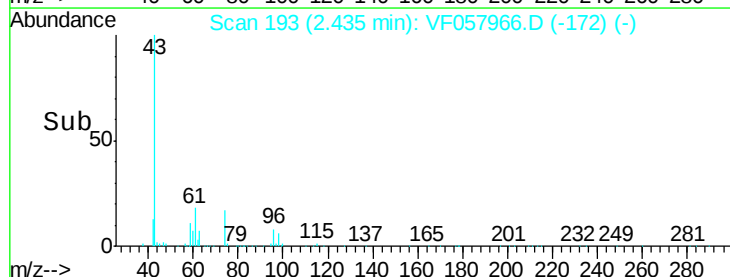
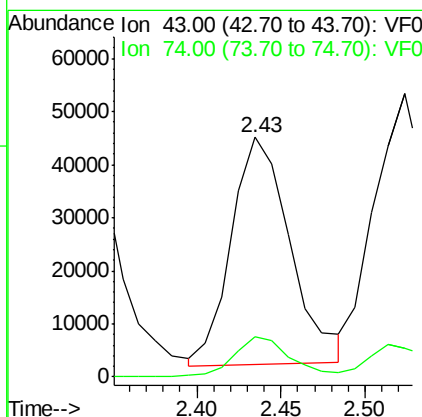
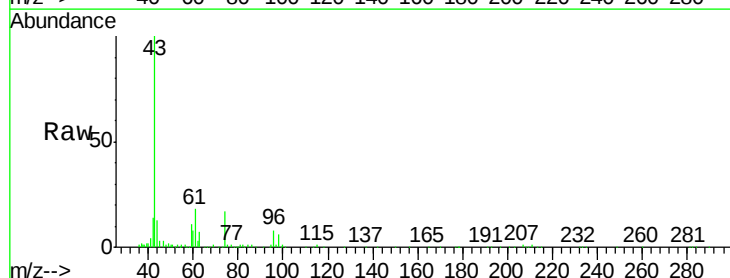
Instrument :
MSVOA_X
ClientSampleId :

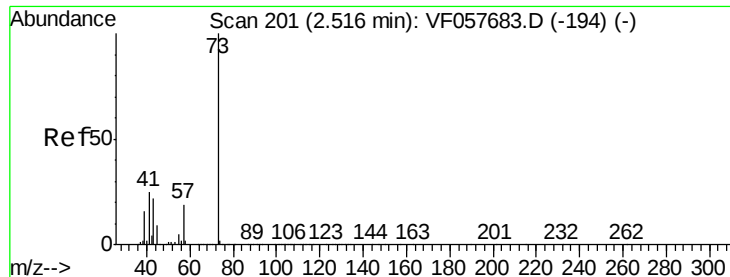
Tot Ion: 76 Resp: 223795
Ion Ratio Lower Upper
76 100
78 8.8 9.4 14.0#



#18
Methyl Acetate
Concen: 63.25 ug/l
RT: 2.43 min Scan# 193
Delta R.T. 0.01 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Tgt Ion: 43 Resp: 104480
Ion Ratio Lower Upper
43 100
74 16.9 11.9 17.9



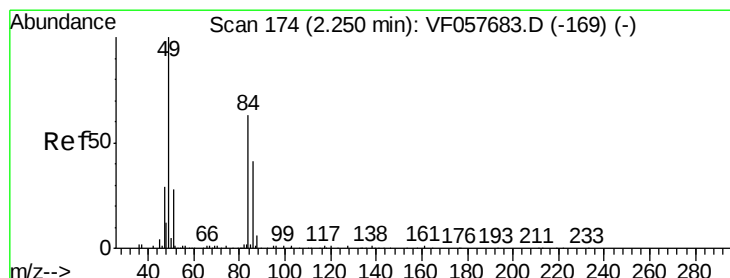
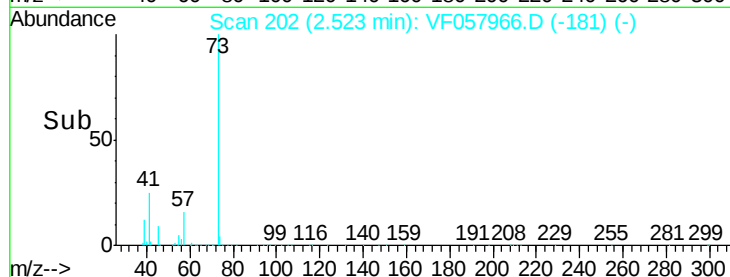
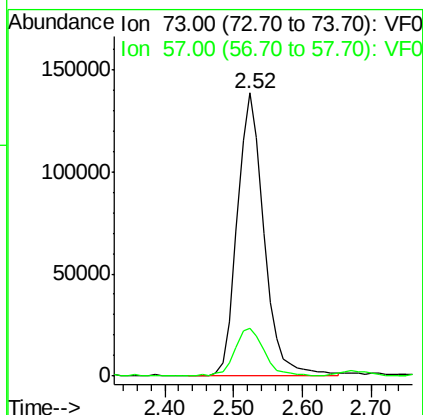
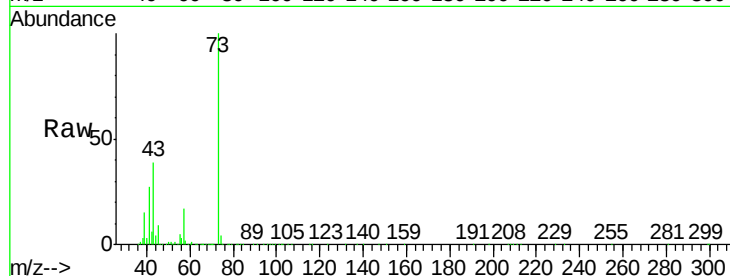


#19

Methyl tert-butyl Ether
 Concen: 62.38 ug/l
 RT: 2.52 min Scan# 202
 Delta R.T. 0.01 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Instrument :
 MSVOA_X
 ClientSampleId :

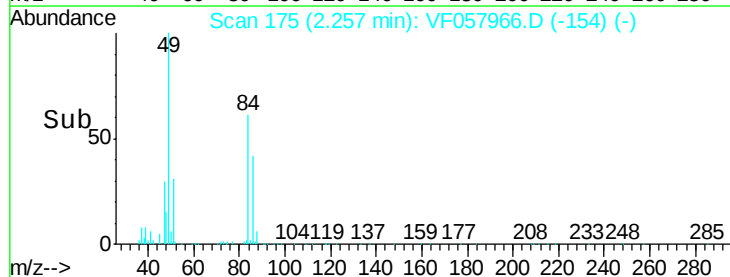
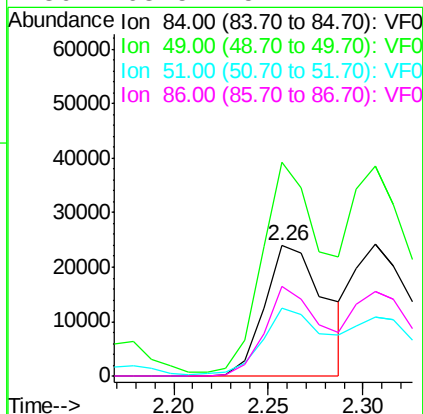
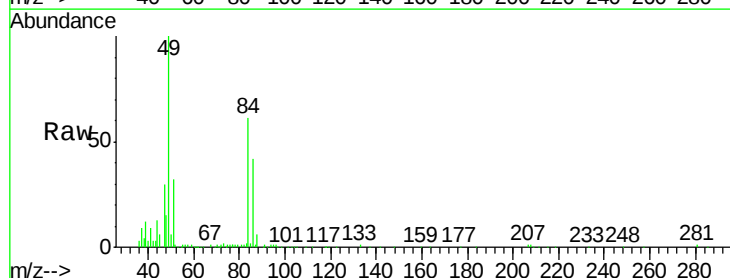
Tot Ion: 73 Resp: 371927
 Ion Ratio Lower Upper
 73 100
 57 16.7 16.5 24.7

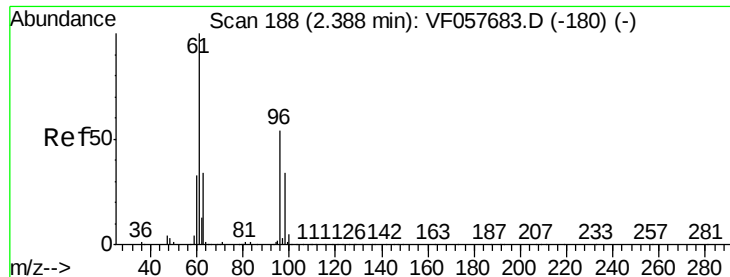


#20

Methylene Chloride
 Concen: 28.98 ug/l
 RT: 2.26 min Scan# 175
 Delta R.T. 0.01 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Tgt Ion: 84 Resp: 53483
 Ion Ratio Lower Upper
 84 100
 49 164.2 126.4 189.6
 51 52.5 36.6 55.0
 86 68.5 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 55.12 ug/l

RT: 2.40 min Scan# 189

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampled :

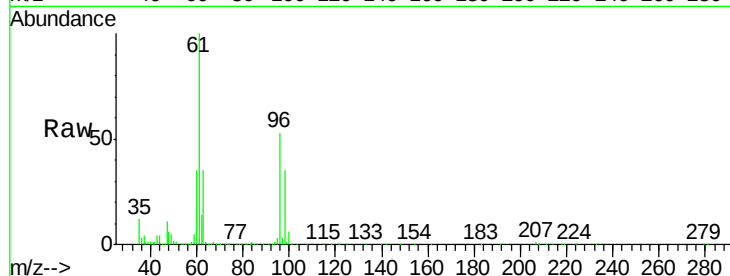
Tot Ion: 96 Resp: 109797

Ion Ratio Lower Upper

96 100

61 187.8 148.3 222.5

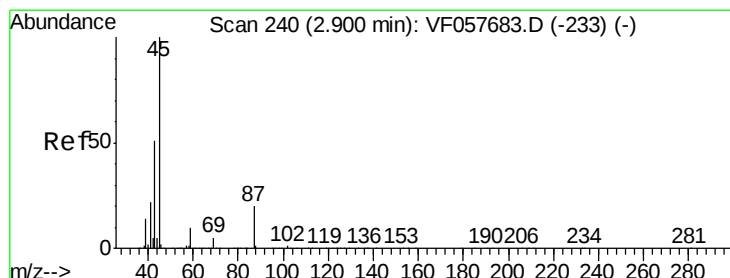
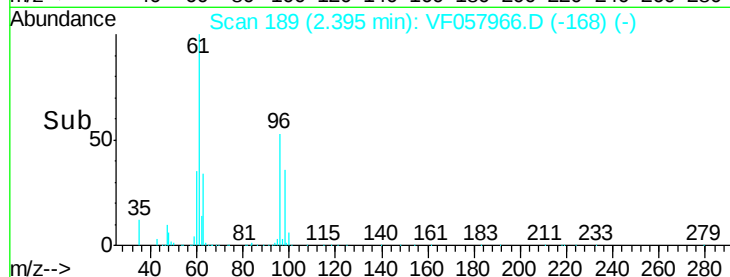
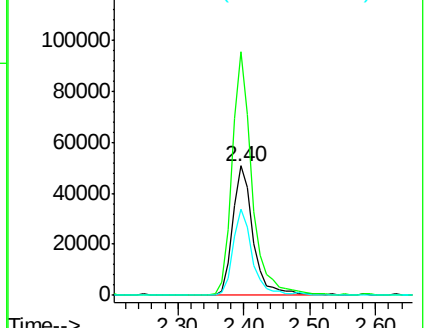
98 66.7 51.4 77.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 59.36 ug/l

RT: 2.91 min Scan# 241

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Tgt Ion: 45 Resp: 459486

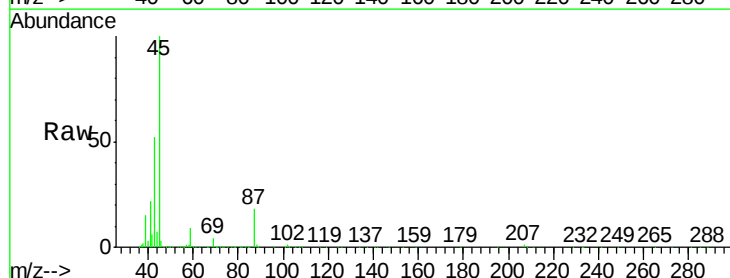
Ion Ratio Lower Upper

45 100

43 52.4 43.8 65.8

87 18.1 16.3 24.5

59 9.5 8.3 12.5

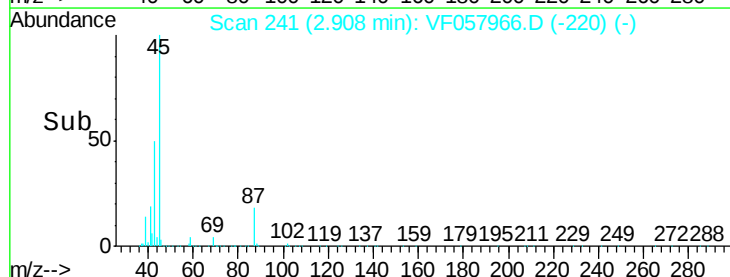
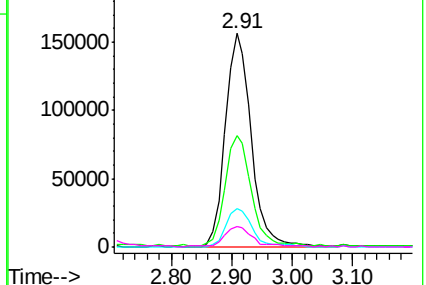


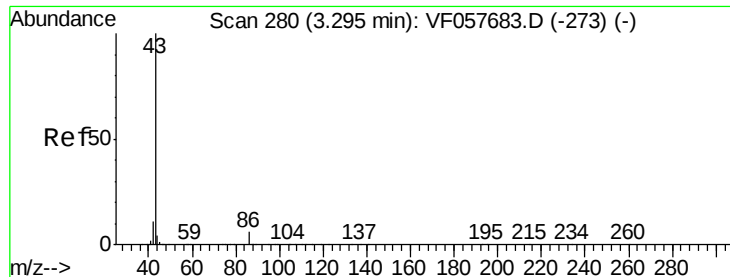
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 277.62 ug/l

RT: 3.31 min Scan# 282

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

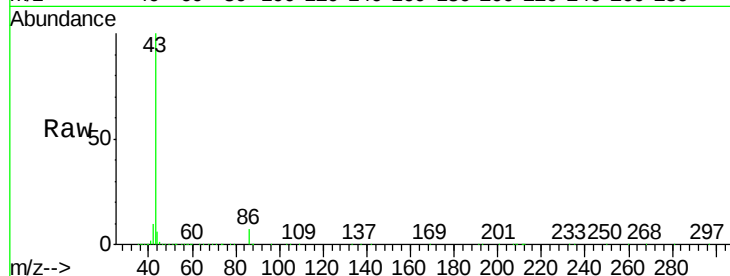
Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 1547351

Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.2	7.8

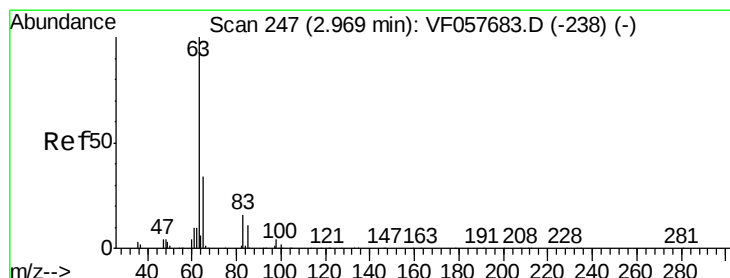
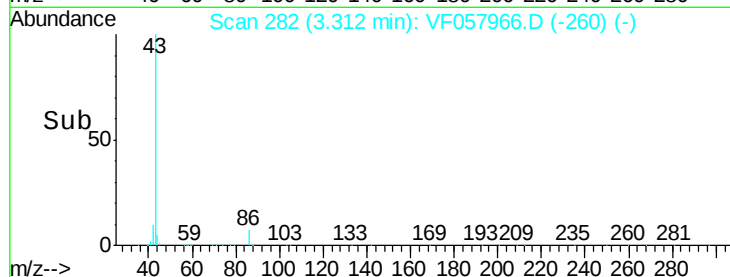


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.31

Time-->



#24

1,1-Dichloroethane

Concen: 62.25 ug/l

RT: 2.98 min Scan# 248

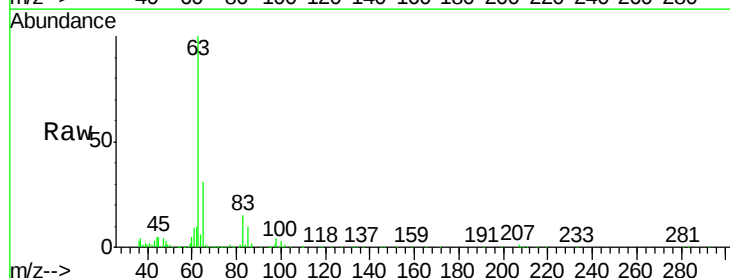
Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Tgt Ion: 63 Resp: 278106

Ion	Ratio	Lower	Upper
63	100		
98	3.7	2.1	6.2
100	2.7	1.3	3.8



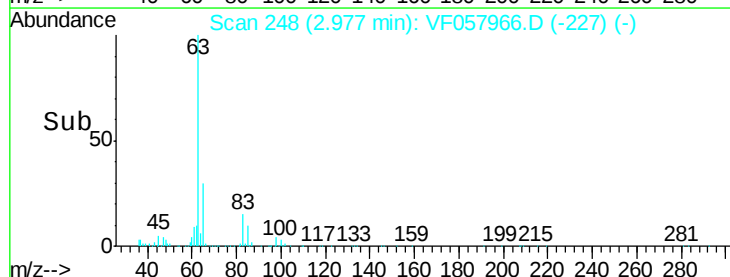
Abundance Ion 63.00 (62.70 to 63.70): VF0

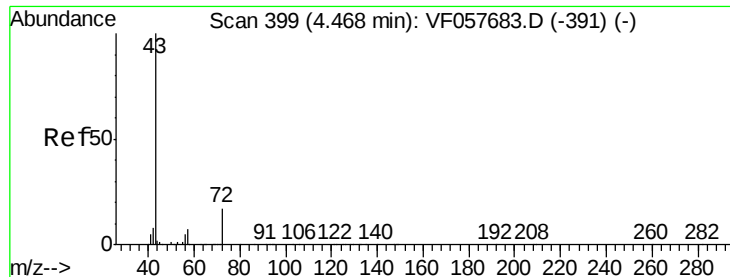
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.98

Time-->





#25

2-Butanone

Concen: 282.46 ug/l

RT: 4.48 min Scan# 401

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

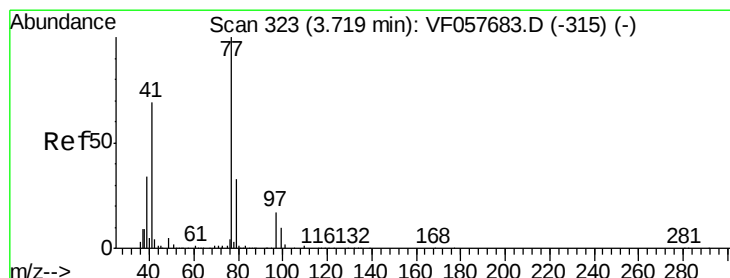
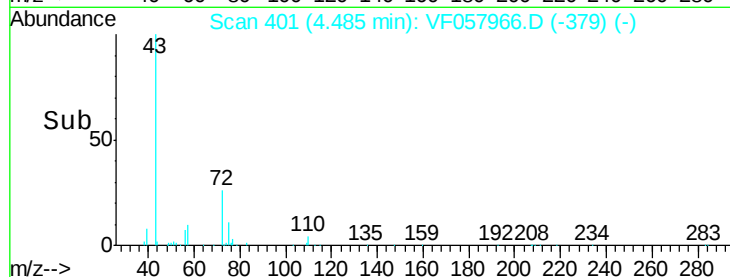
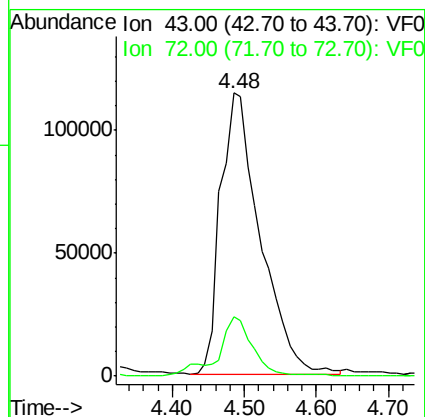
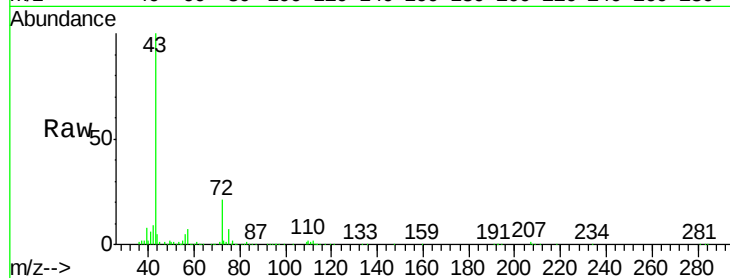
ClientSampleId :

Tot Ion: 43 Resp: 435829

Ion Ratio Lower Upper

43 100

72 20.9 15.0 22.6



#26

2,2-Dichloropropane

Concen: 49.39 ug/l

RT: 3.74 min Scan# 325

Delta R.T. 0.02 min

Lab File: VF057966.D

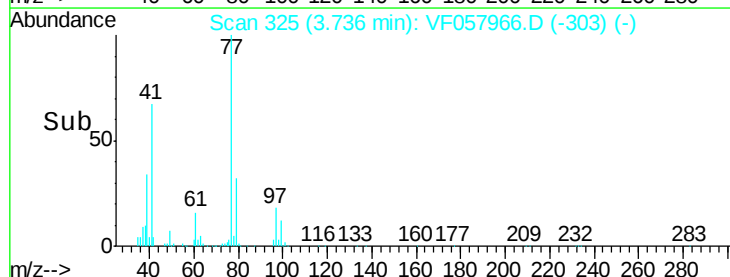
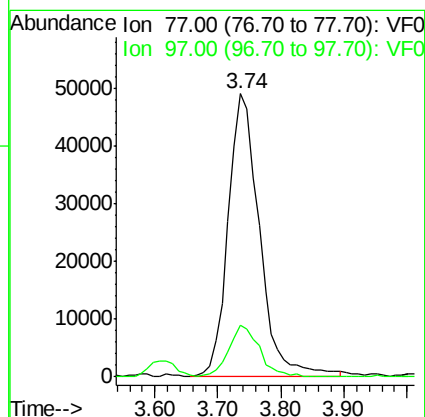
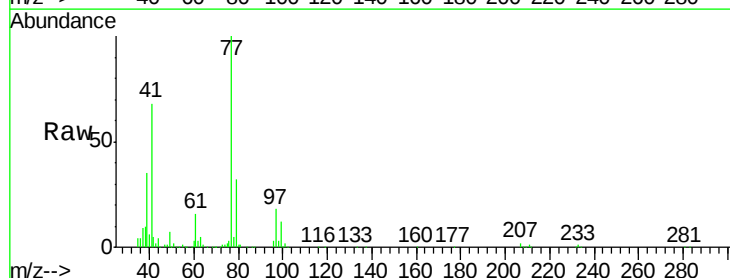
Acq: 23 May 2018 2:35

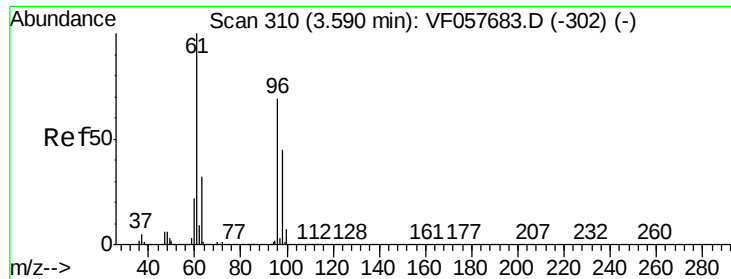
Tgt Ion: 77 Resp: 167854

Ion Ratio Lower Upper

77 100

97 18.2 9.0 27.1



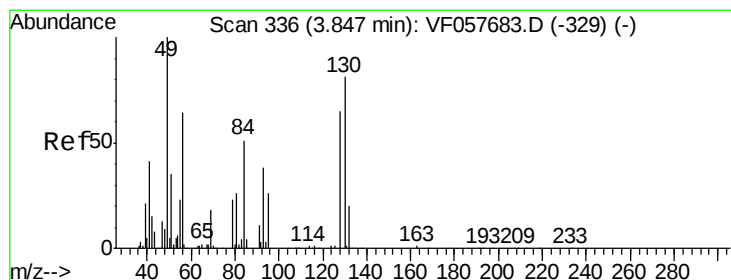
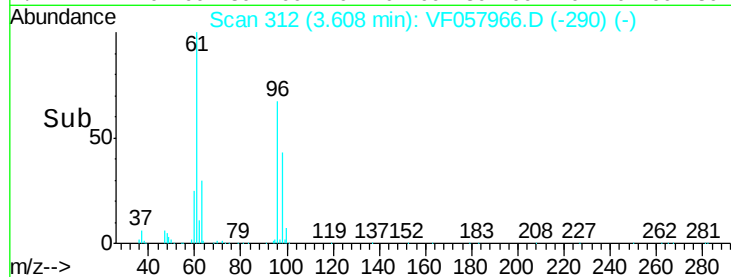
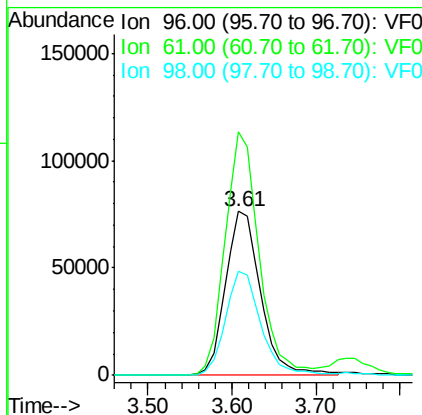
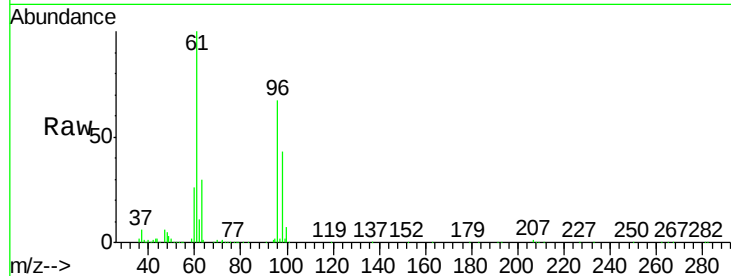


#27

cis-1,2-Dichloroethene
 Concen: 60.42 ug/l
 RT: 3.61 min Scan# 312
 Delta R.T. 0.02 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Instrument :
 MSVOA_X
 ClientSampled :

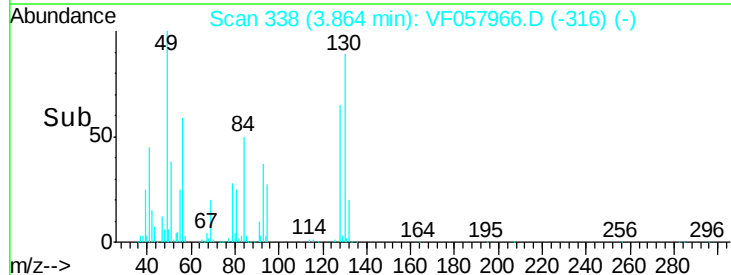
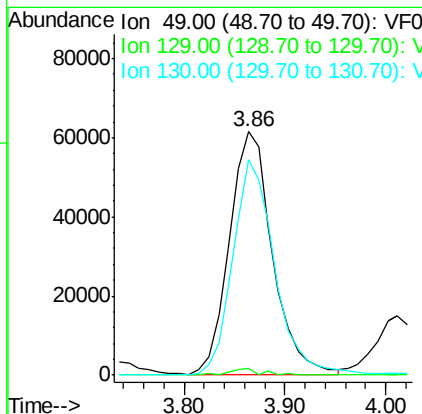
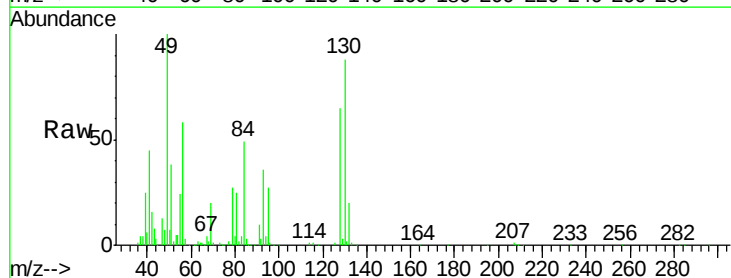
Tot Ion	Ratio	Lower	Upper
96	100		
61	148.6	0.0	286.8
98	63.8	0.0	130.2

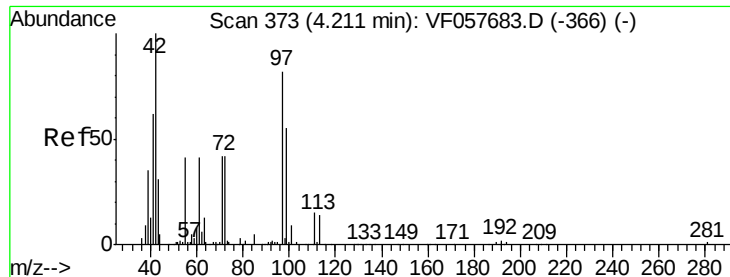


#28

Bromochloromethane
 Concen: 70.53 ug/l
 RT: 3.86 min Scan# 338
 Delta R.T. 0.02 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	0.0#
130	88.4	64.7	97.1

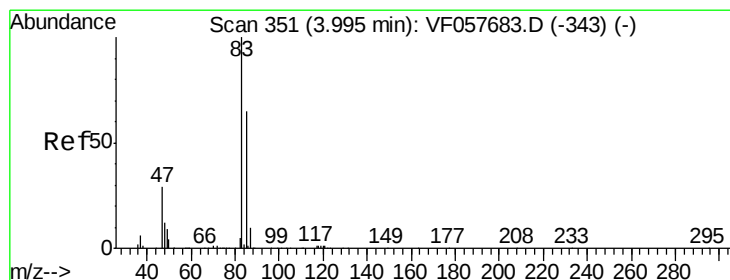
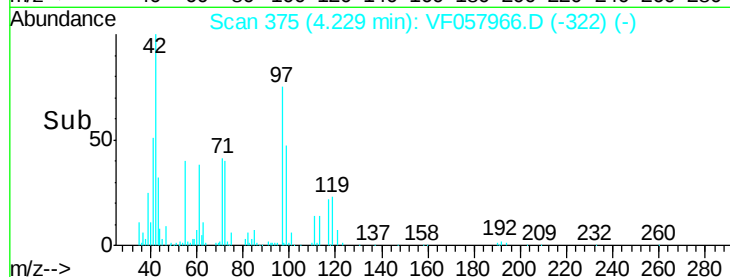
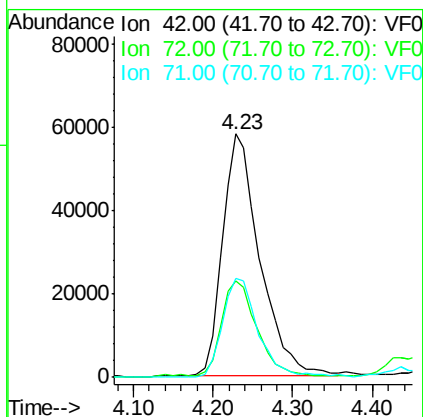
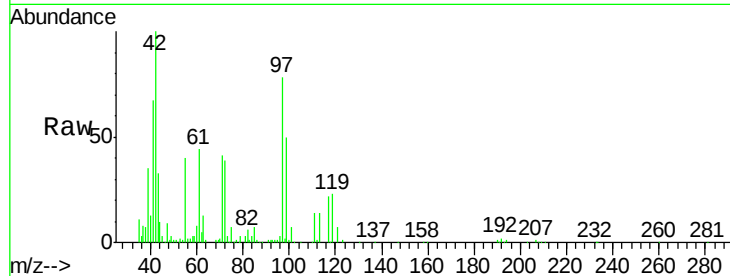




#29
Tetrahydrofuran
Concen: 288.77 ug/l
RT: 4.23 min Scan# 375
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

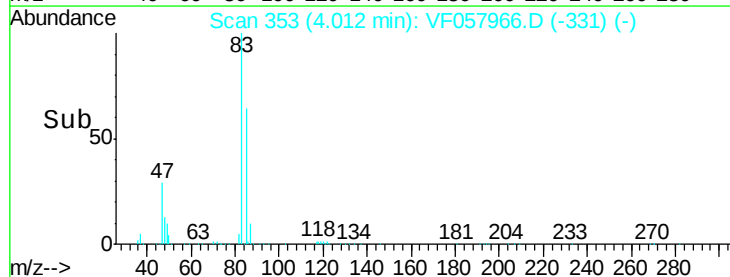
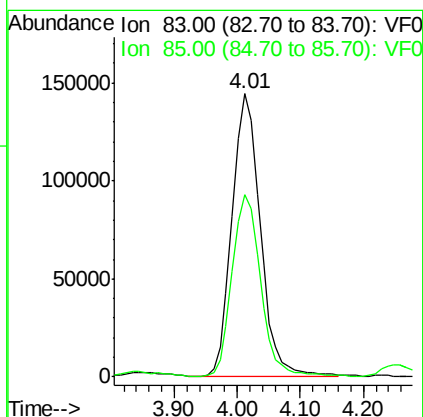
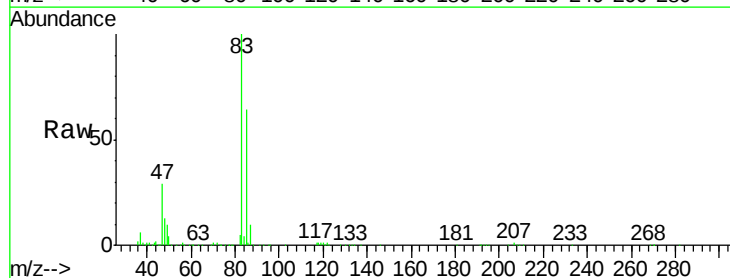
Instrument :
MSVOA_X
ClientSampleId :

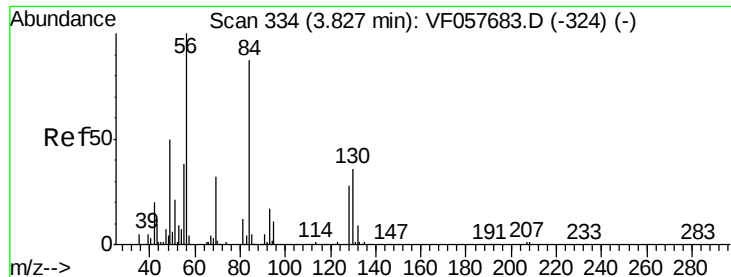
Tot Ion	Ratio	Lower	Upper
42	100		
72	37.7	31.7	47.5
71	39.3	31.7	47.5



#30
Chloroform
Concen: 62.26 ug/l
RT: 4.01 min Scan# 353
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.1	78.1





#31

Cyclohexane

Concen: 52.88 ug/l

RT: 3.83 min Scan# 335

Delta R.T. 0.01 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :
MSVOA_X
ClientSampleId :

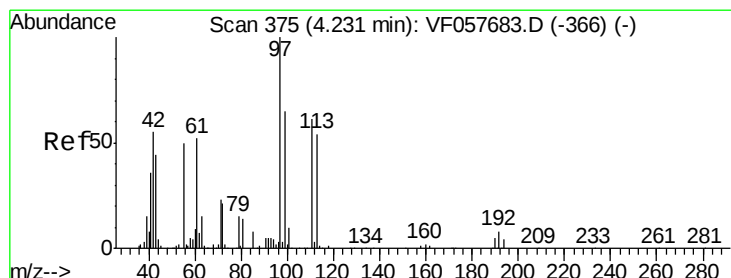
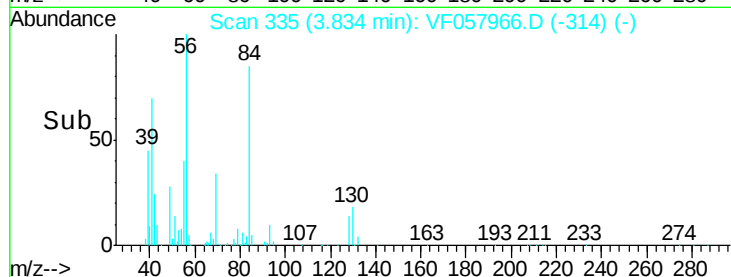
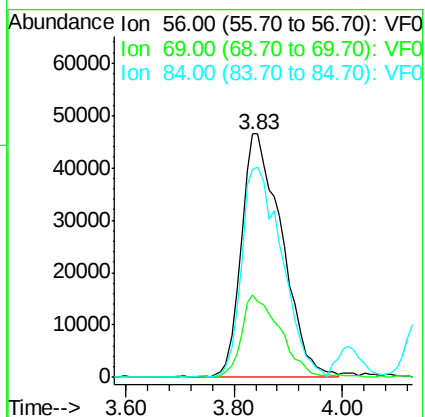
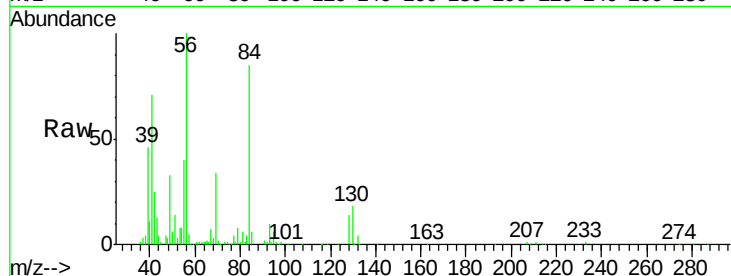
Tot Ion: 56 Resp: 240280

Ion Ratio Lower Upper

56 100

69 33.6 26.9 40.3

84 85.2 69.8 104.6



#32

1,1,1-Trichloroethane

Concen: 59.56 ug/l

RT: 4.25 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

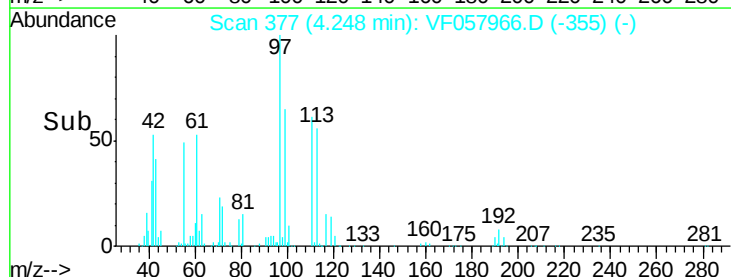
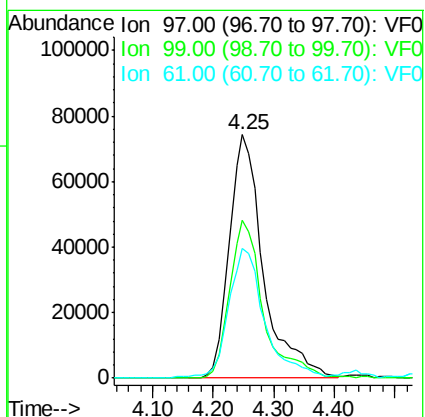
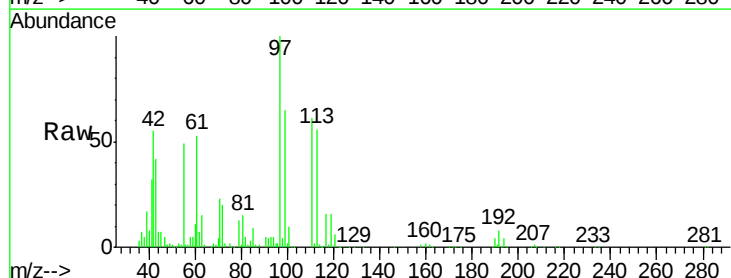
Tgt Ion: 97 Resp: 291922

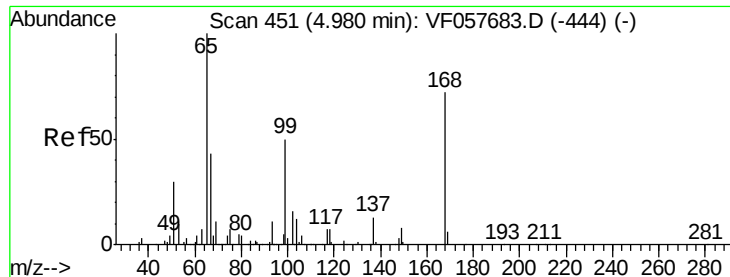
Ion Ratio Lower Upper

97 100

99 65.0 51.7 77.5

61 53.4 42.2 63.2





#33

1,2-Dichloroethane-d4

Concen: 59.64 ug/l

RT: 5.00 min Scan# 453

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

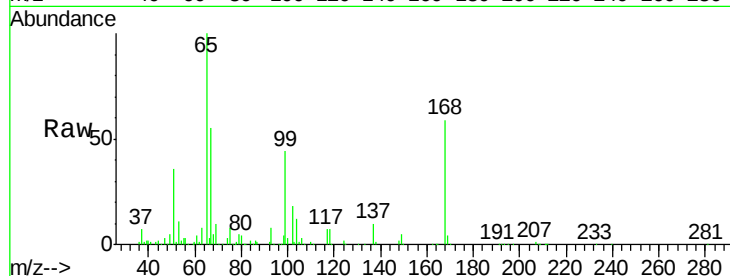
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 254731

Ion Ratio Lower Upper

65 100

67 55.2 0.0 102.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.00

80000

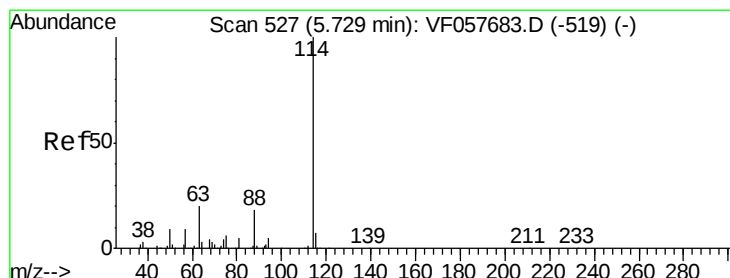
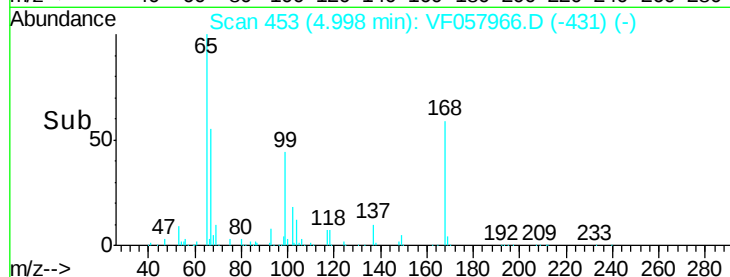
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 529

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

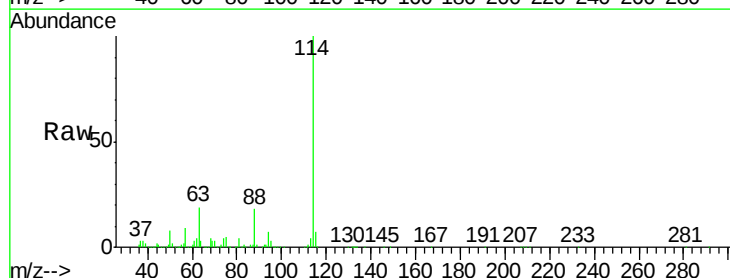
Tgt Ion: 114 Resp: 569626

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.8

88 18.3 0.0 37.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

300000

250000

200000

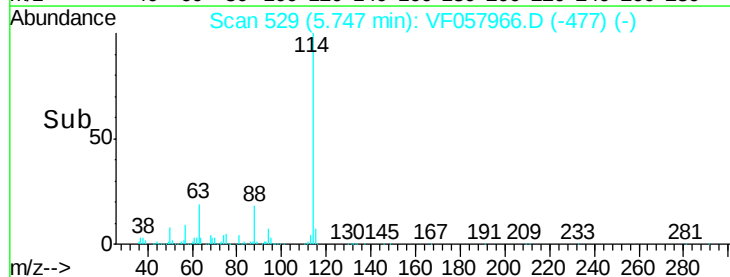
150000

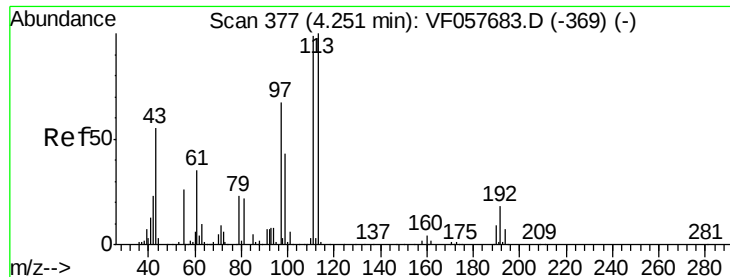
100000

50000

0

Time-->





#35

Dibromofluoromethane

Concen: 61.10 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

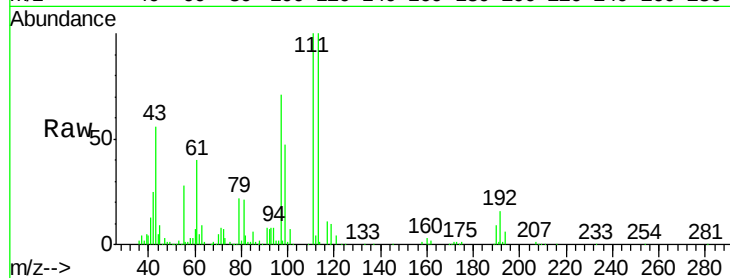
Tot Ion:113 Resp: 248869

Ion Ratio Lower Upper

113 100

111 100.2 79.1 118.7

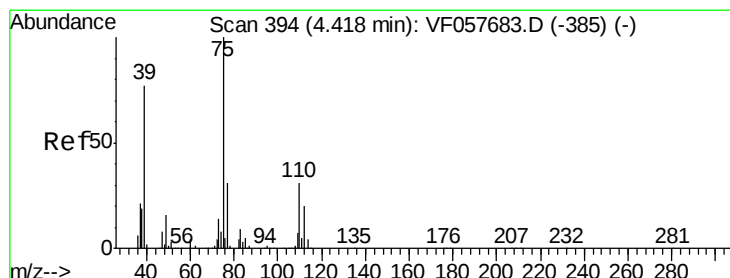
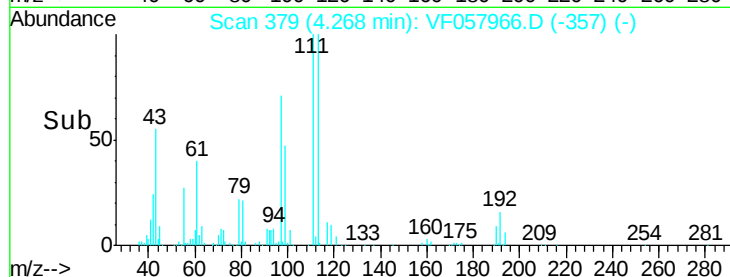
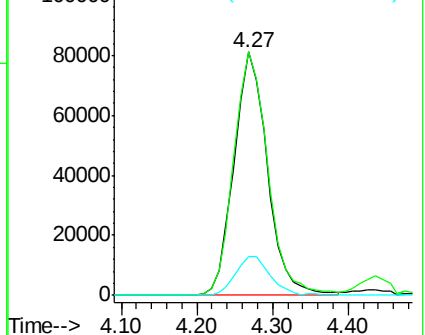
192 15.8 14.5 21.7



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: 55.76 ug/l

RT: 4.44 min Scan# 396

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

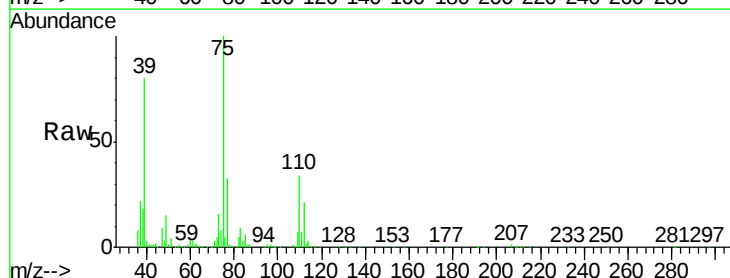
Tgt Ion: 75 Resp: 283151

Ion Ratio Lower Upper

75 100

110 33.7 15.5 46.5

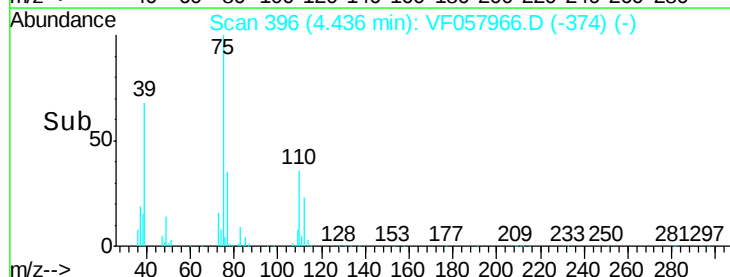
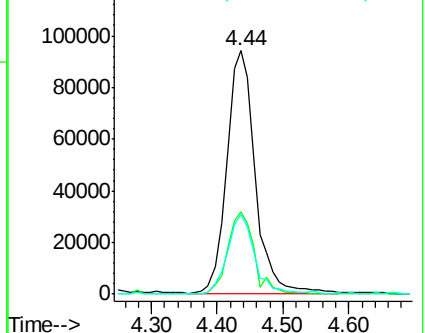
77 32.9 25.7 38.5

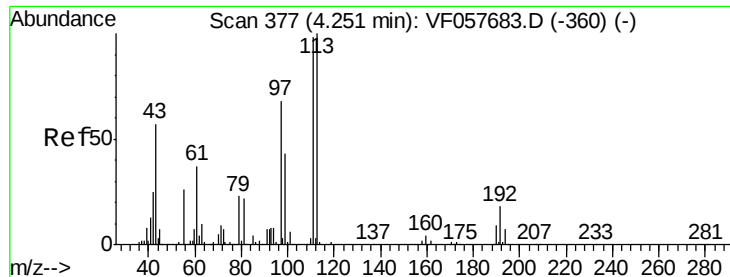


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 56.89 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampled :

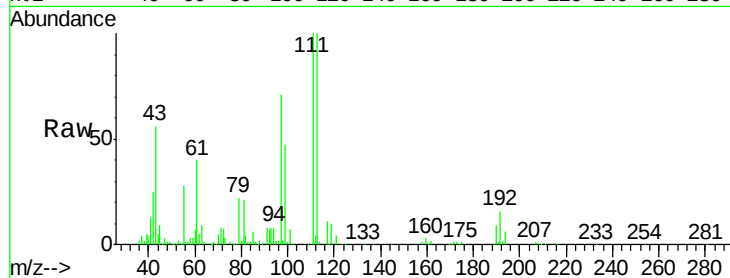
Tot Ion: 43 Resp: 184386

Ion Ratio Lower Upper

43 100

61 71.9 49.4 74.2

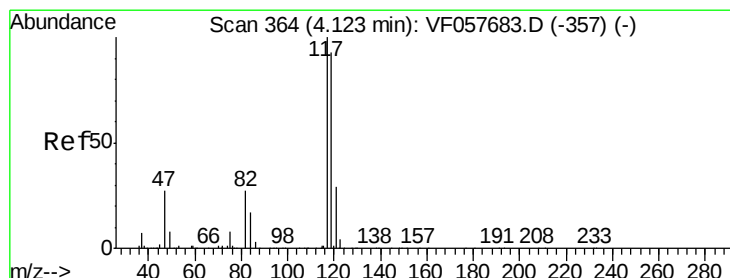
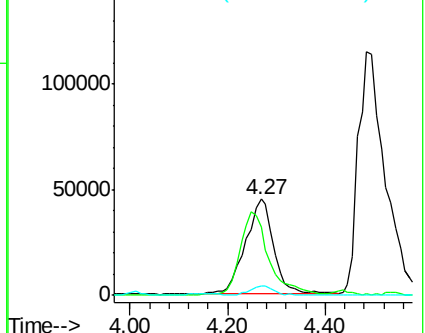
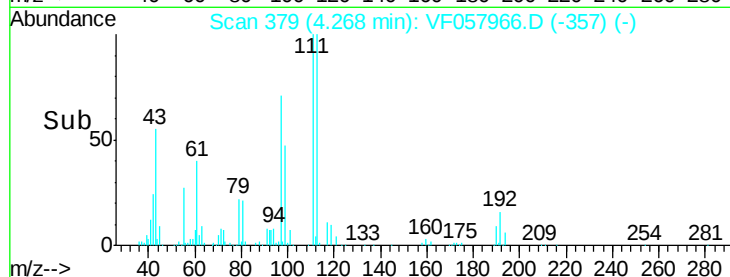
70 9.2 7.6 11.4



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: 62.85 ug/l

RT: 4.15 min Scan# 367

Delta R.T. 0.03 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

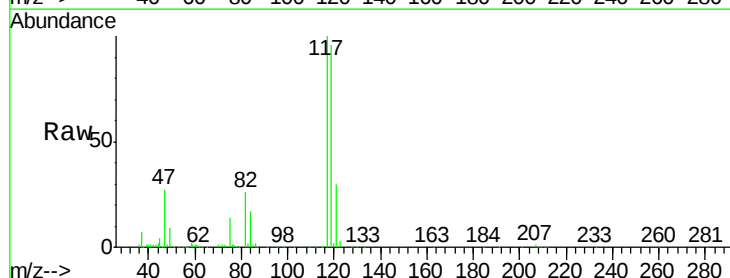
Tgt Ion: 117 Resp: 339126

Ion Ratio Lower Upper

117 100

119 95.5 74.2 111.2

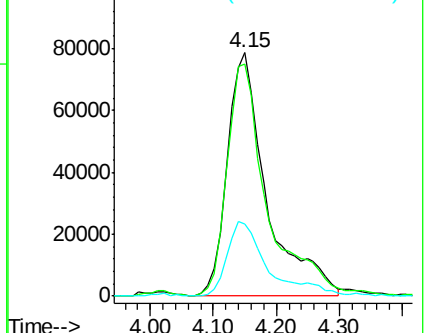
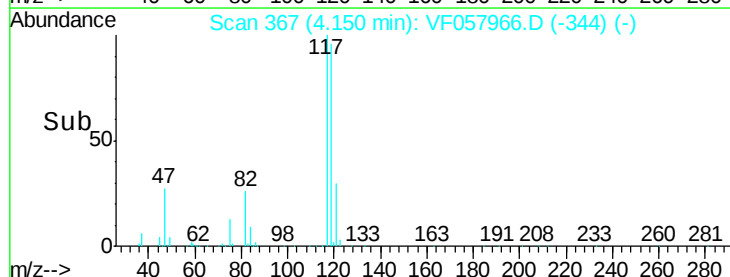
121 29.6 23.5 35.3

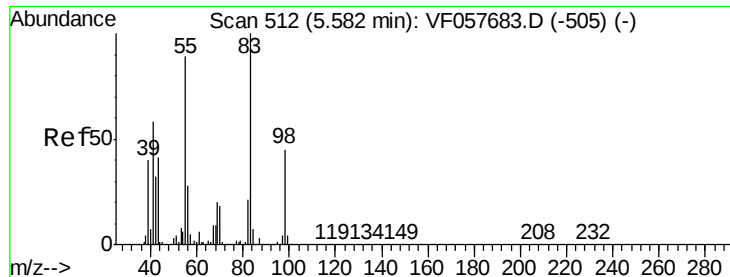


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

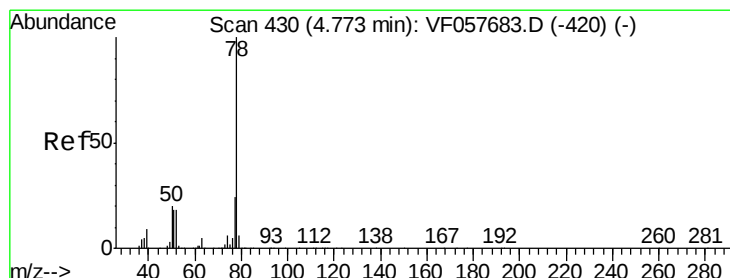
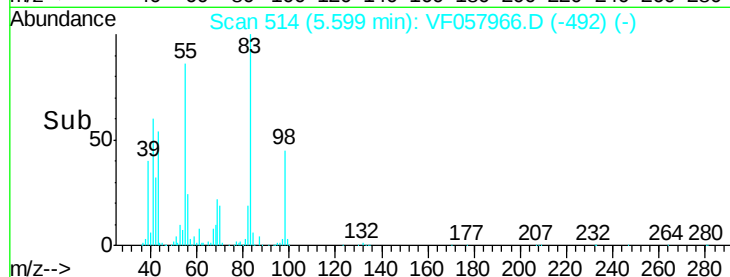
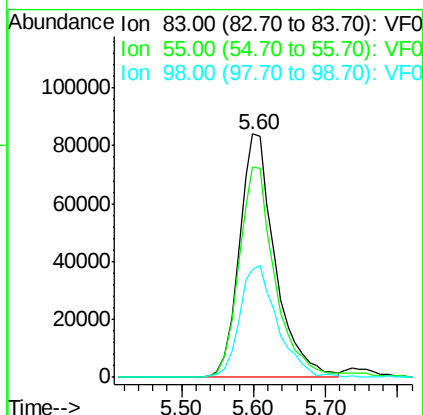
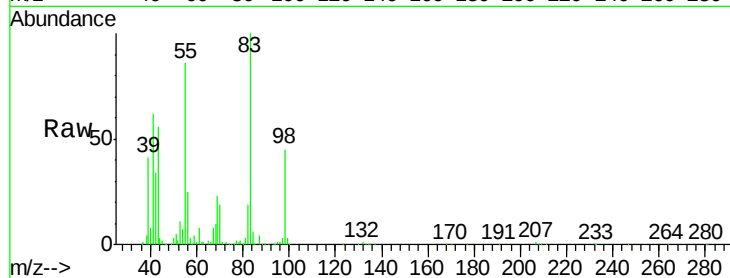




#39
Methvlcvclohexane
Concen: 54.28 ug/l
RT: 5.60 min Scan# 514
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

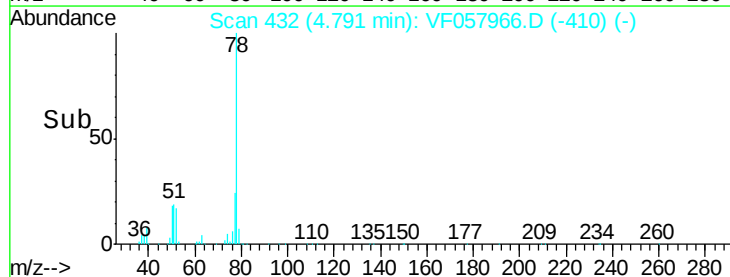
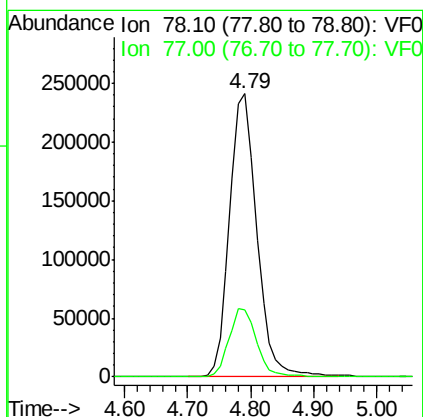
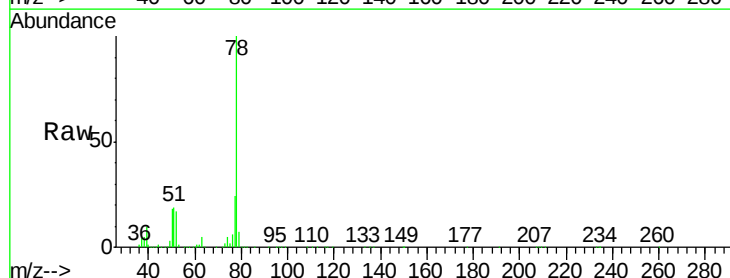
Instrument :
MSVOA_X
ClientSampleId :

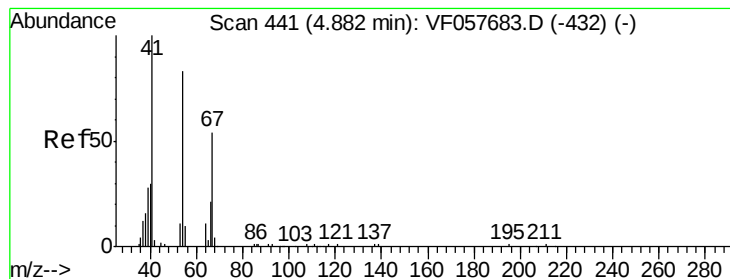
Tot Ion: 83 Resp: 290444
Ion Ratio Lower Upper
83 100
55 86.3 71.8 107.8
98 44.6 36.6 54.8



#40
Benzene
Concen: 58.45 ug/l
RT: 4.79 min Scan# 432
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Tgt Ion: 78 Resp: 723066
Ion Ratio Lower Upper
78 100
77 23.7 19.3 28.9





#41

Methacrylonitrile

Concen: 61.72 ug/l

RT: 4.90 min Scan# 443

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 41 Resp: 104508

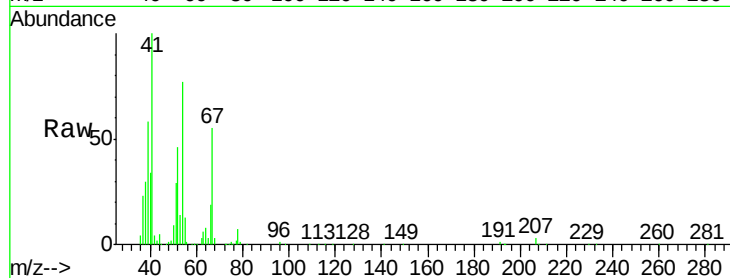
Ion Ratio Lower Upper

41 100

39 57.9 49.0 73.4

67 55.1 41.3 61.9

52 45.8 35.4 53.0

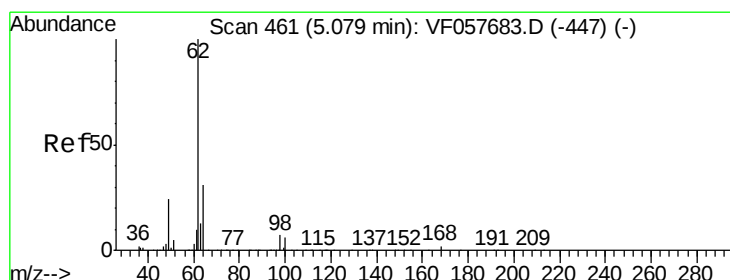
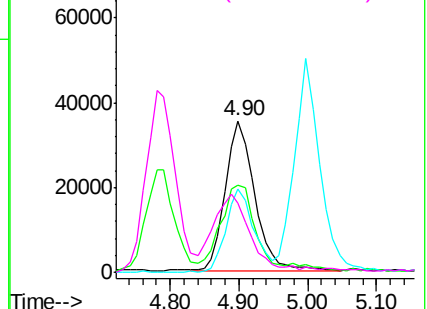
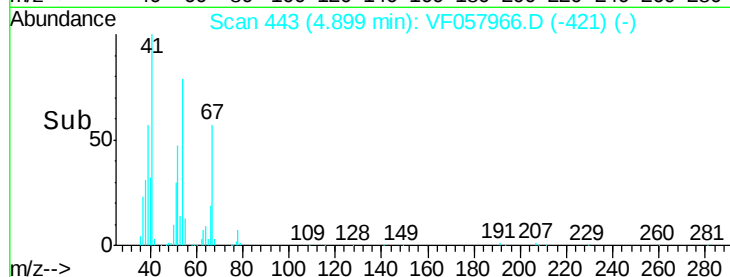


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 58.08 ug/l

RT: 5.10 min Scan# 463

Delta R.T. 0.02 min

Lab File: VF057966.D

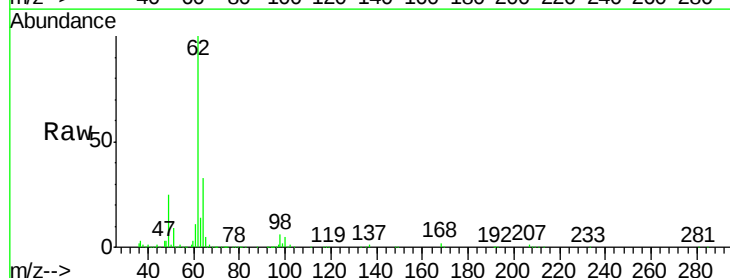
Acq: 23 May 2018 2:35

Tgt Ion: 62 Resp: 303016

Ion Ratio Lower Upper

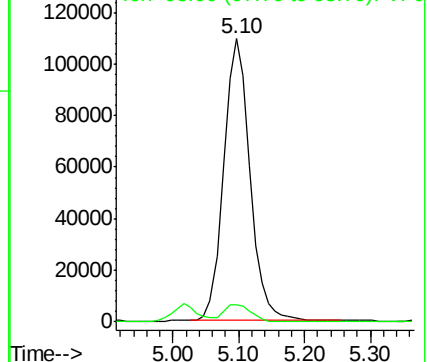
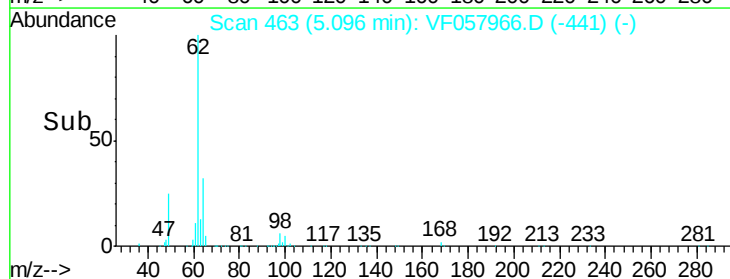
62 100

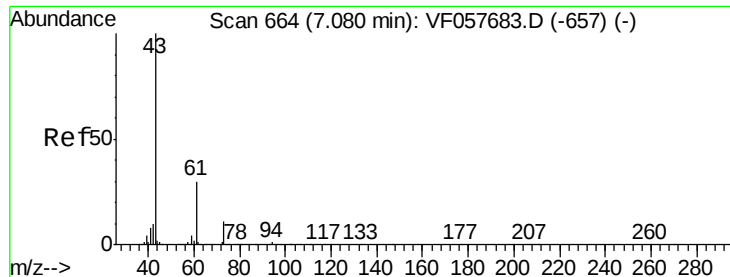
98 6.0 0.0 14.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



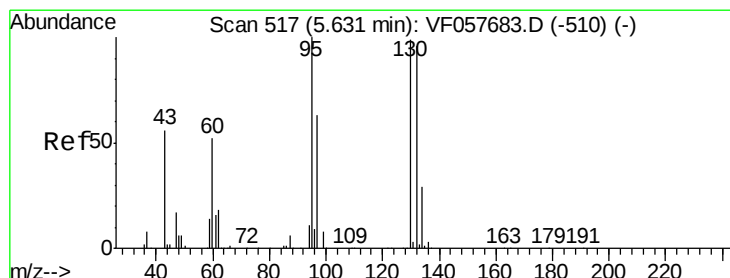
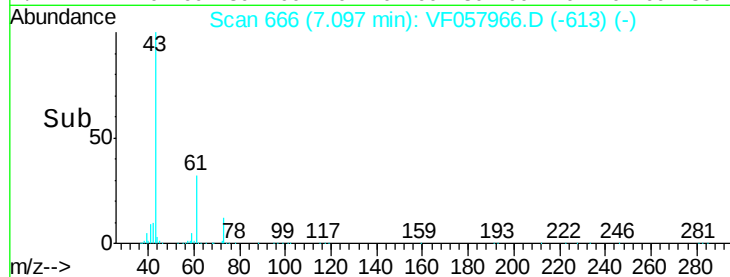
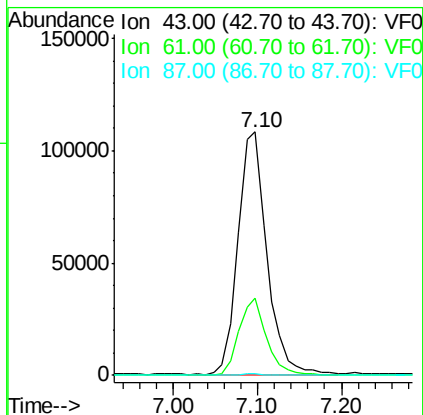
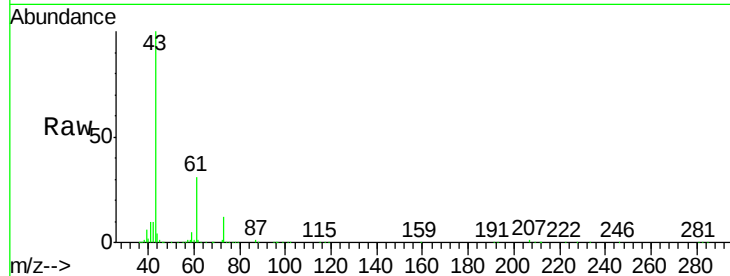


#43

Isopropyl Acetate
 Concen: 53.66 ug/l
 RT: 7.10 min Scan# 666
 Delta R.T. 0.02 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Instrument :
 MSVOA_X
 ClientSampleId :

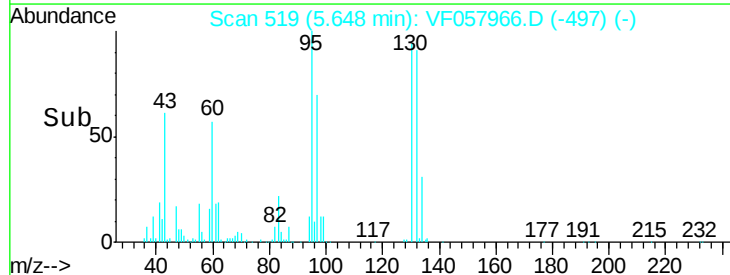
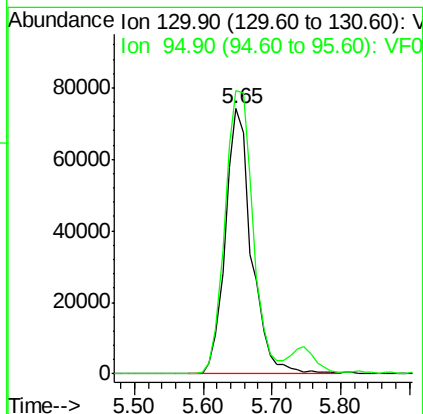
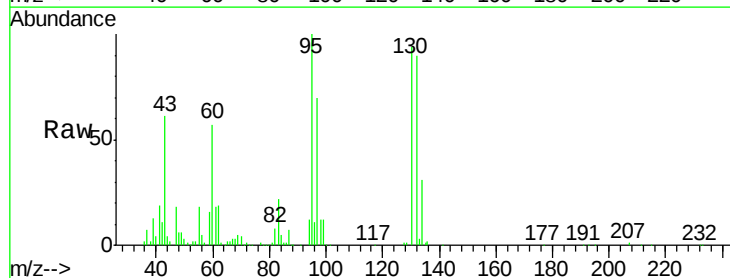
Tot Ion: 43 Resp: 257844
 Ion Ratio Lower Upper
 43 100
 61 31.5 23.8 35.6
 87 0.5 0.3 0.5#

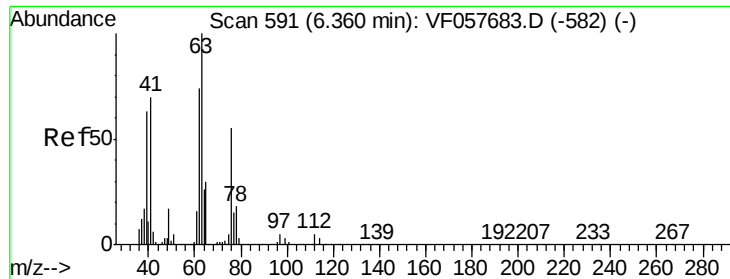


#44

Trichloroethene
 Concen: 50.24 ug/l
 RT: 5.65 min Scan# 519
 Delta R.T. 0.02 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Tgt Ion: 130 Resp: 195075
 Ion Ratio Lower Upper
 130 100
 95 106.8 0.0 202.0





#45

1,2-Dichloropropane

Concen: 62.65 ug/l

RT: 6.38 min Scan# 593

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

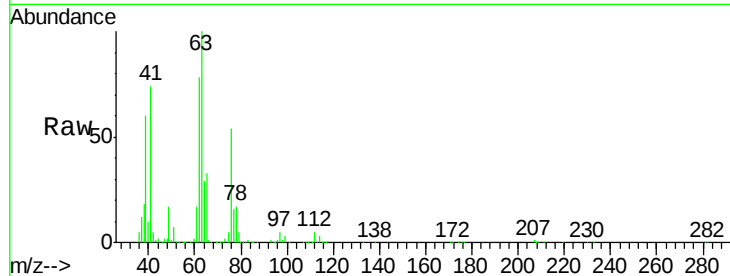
ClientSampleId :

Tot Ion: 63 Resp: 222294

Ion Ratio Lower Upper

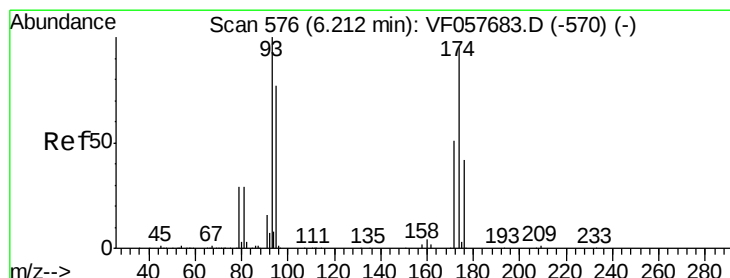
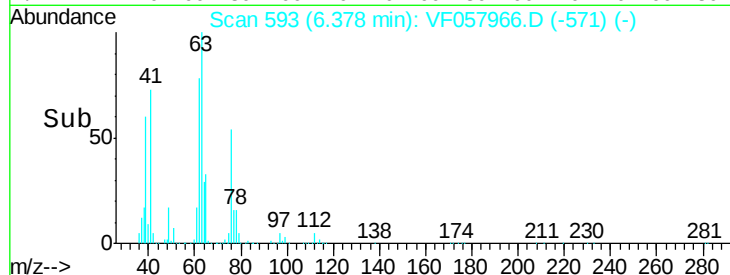
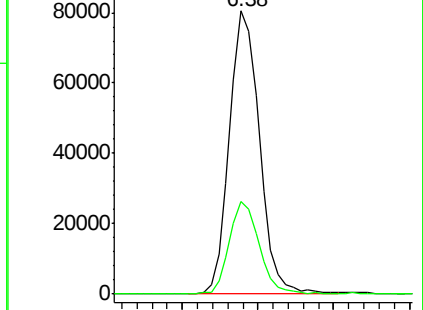
63 100

65 32.9 24.6 36.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 60.65 ug/l

RT: 6.23 min Scan# 578

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

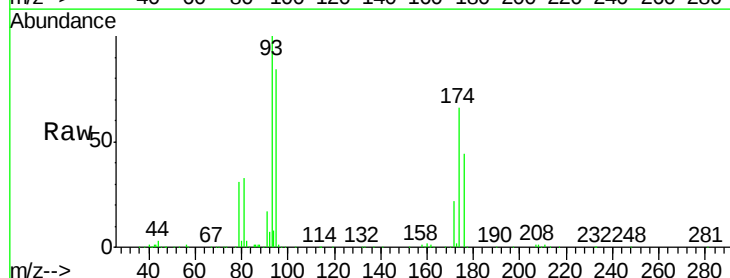
Tgt Ion: 93 Resp: 165368

Ion Ratio Lower Upper

93 100

95 84.4 62.0 93.0

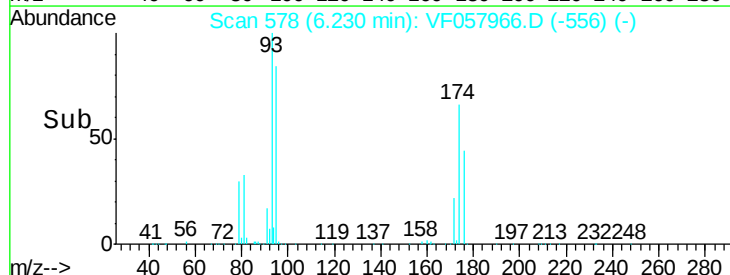
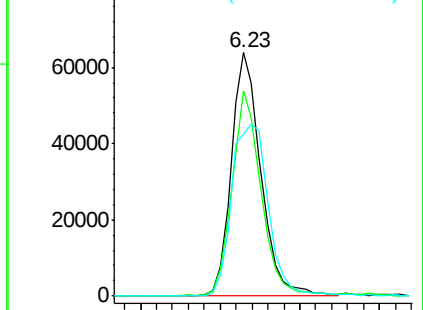
174 66.2 75.5 113.3#

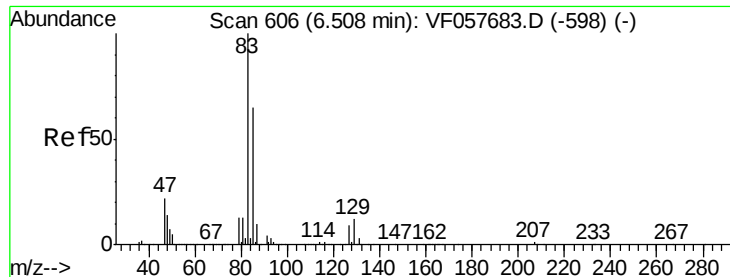


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 62.27 ug/l

RT: 6.53 min Scan# 608

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

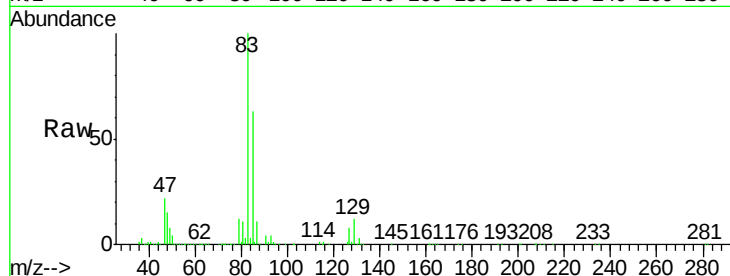
Tot Ion: 83 Resp: 379166

Ion Ratio Lower Upper

83 100

85 62.8 51.9 77.9

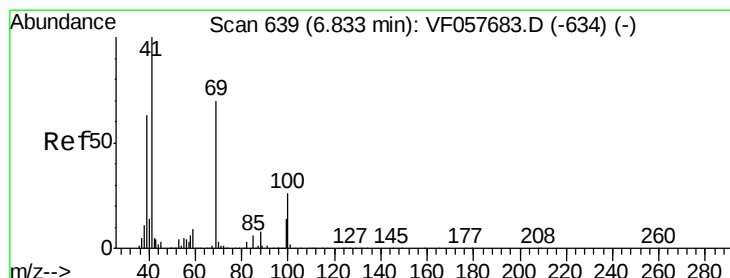
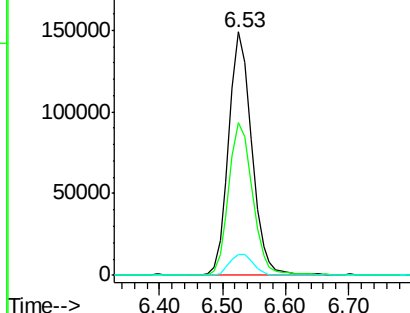
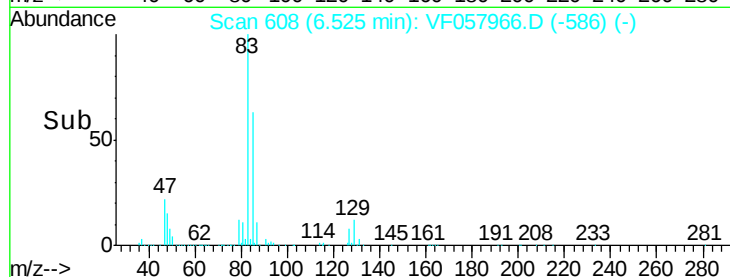
127 8.4 6.8 10.2



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: 55.63 ug/l

RT: 6.85 min Scan# 641

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

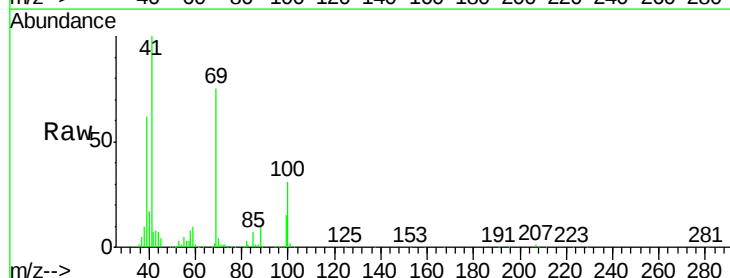
Tgt Ion: 41 Resp: 176230

Ion Ratio Lower Upper

41 100

69 75.1 55.2 82.8

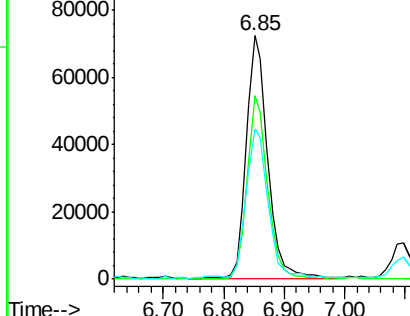
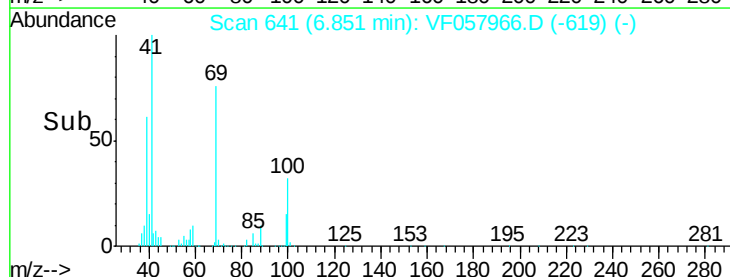
39 61.6 50.7 76.1

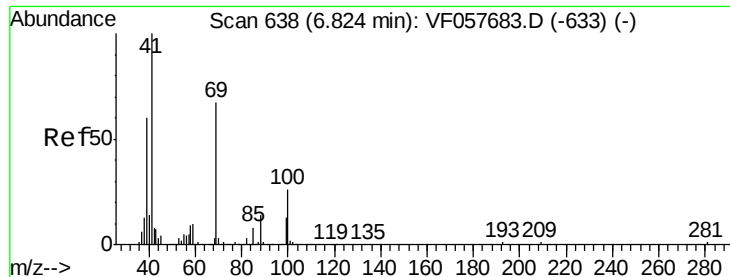


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

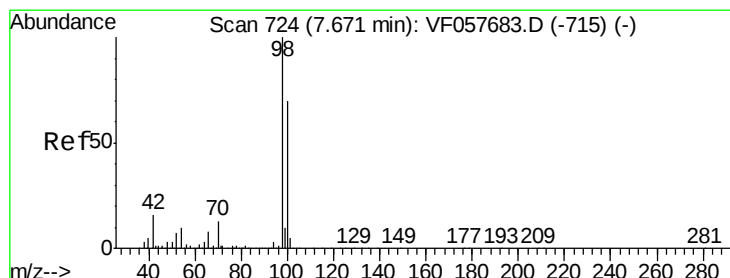
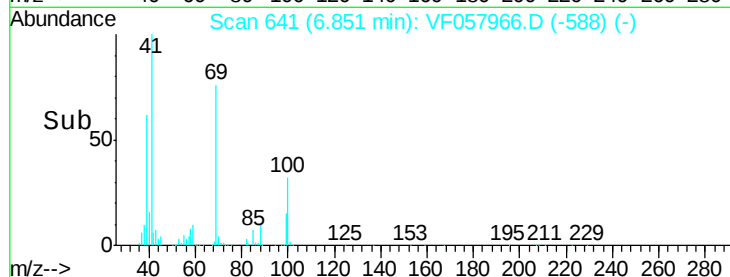
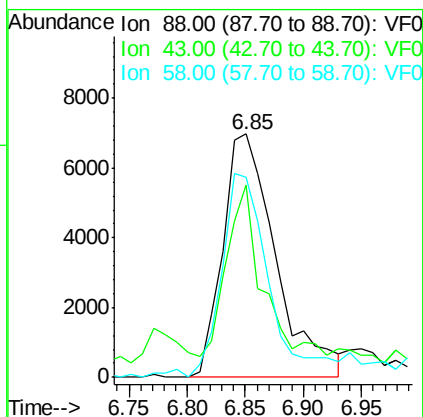
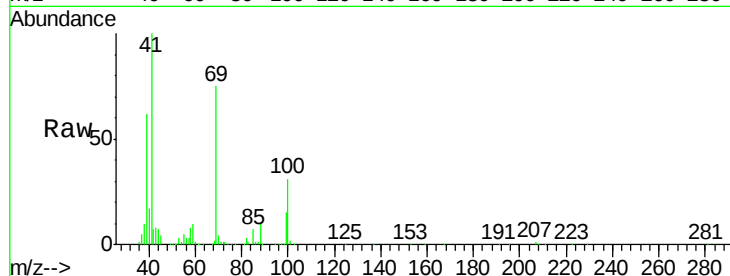




#49
1,4-Dioxane
Concen: 1009.60 ug/l
RT: 6.85 min Scan# 641
Delta R.T. 0.03 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

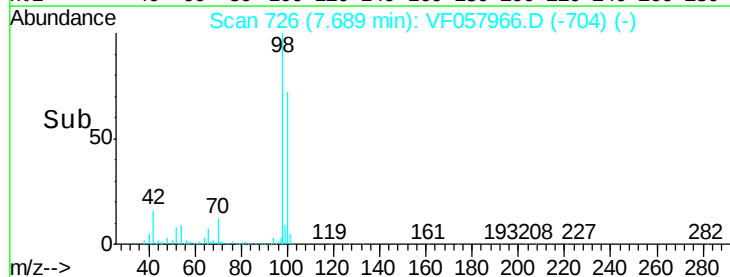
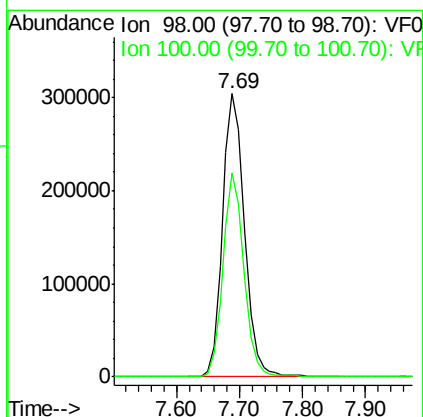
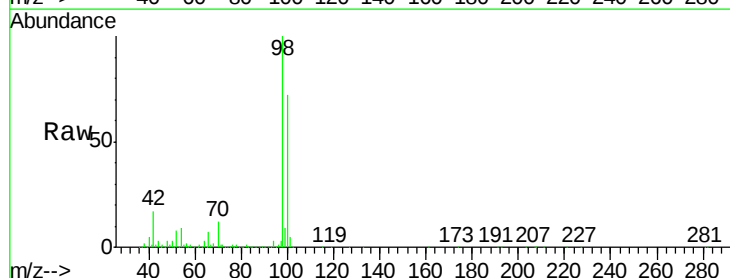
Instrument :
MSVOA_X
ClientSampleId :

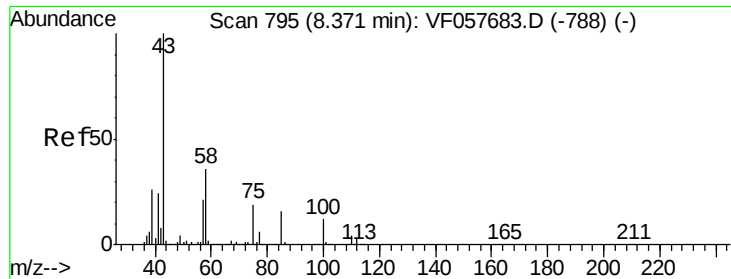
Tot Ion: 88 Resp: 22067
Ion Ratio Lower Upper
88 100
43 79.2 83.2 124.8#
58 82.4 56.6 85.0



#50
Toluene-d8
Concen: 58.97 ug/l
RT: 7.69 min Scan# 726
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Tgt Ion: 98 Resp: 736398
Ion Ratio Lower Upper
98 100
100 71.9 55.8 83.6





#51

4-Methyl-2-Pentanone

Concen: 313.72 ug/l

RT: 8.39 min Scan# 797

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

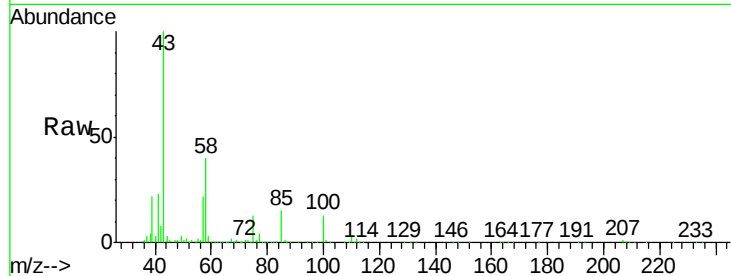
ClientSampleId :

Tot Ion: 43 Resp: 914928

Ion Ratio Lower Upper

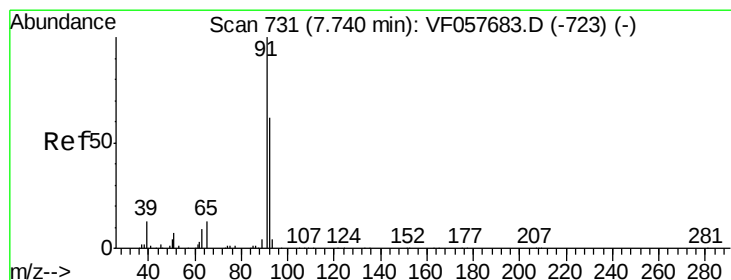
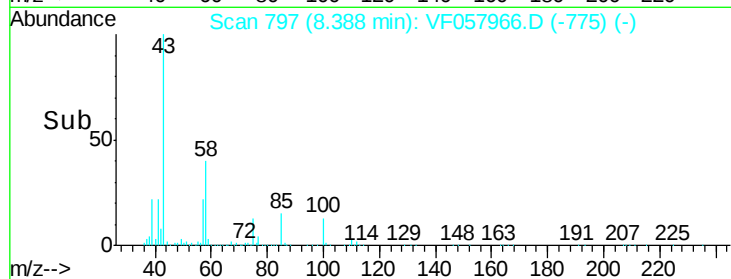
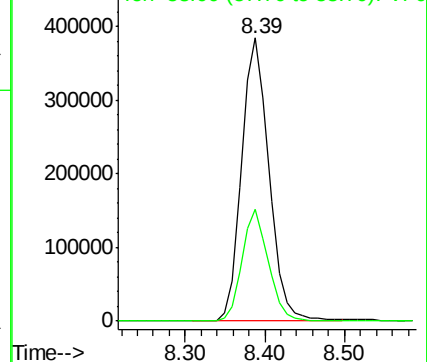
43 100

58 39.5 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 58.40 ug/l

RT: 7.76 min Scan# 733

Delta R.T. 0.02 min

Lab File: VF057966.D

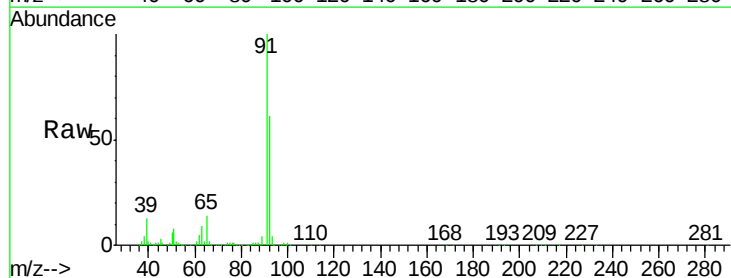
Acq: 23 May 2018 2:35

Tgt Ion: 92 Resp: 519596

Ion Ratio Lower Upper

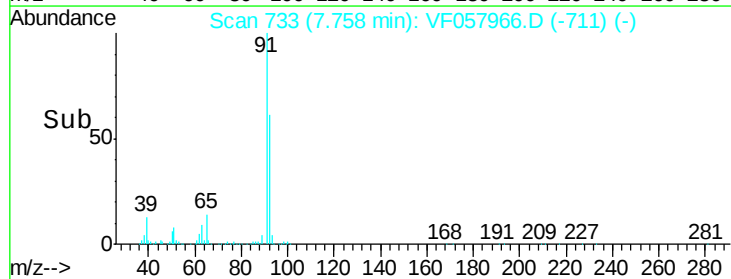
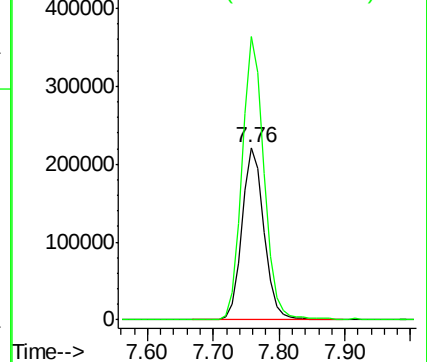
92 100

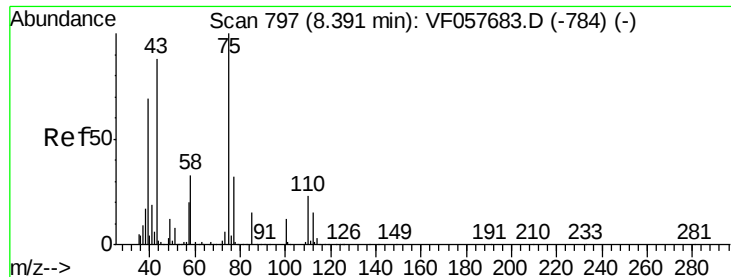
91 164.0 130.2 195.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 53.05 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

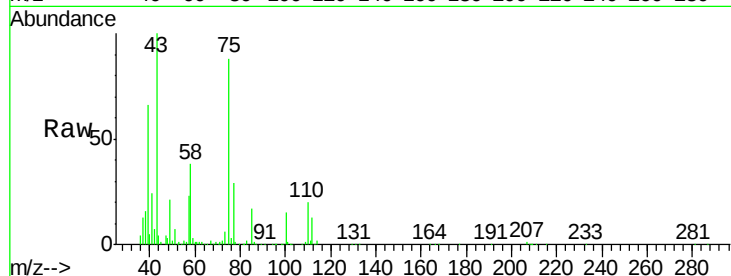
ClientSampleId :

Tot Ion: 75 Resp: 324330

Ion Ratio Lower Upper

75 100

77 33.0 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.41

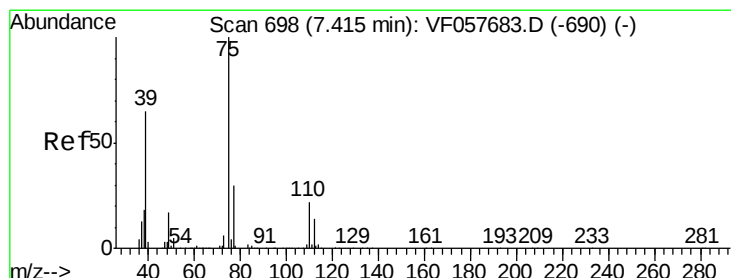
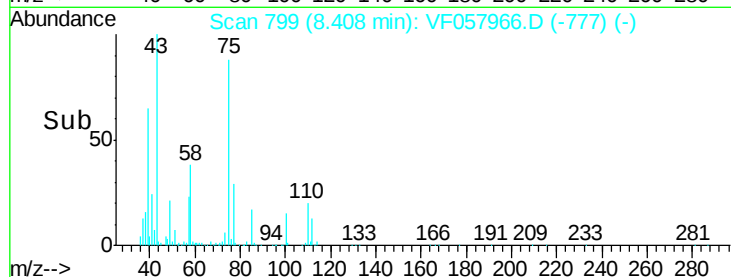
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 57.92 ug/l

RT: 7.43 min Scan# 700

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

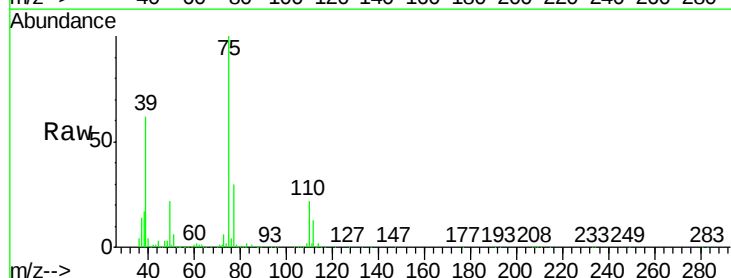
Tgt Ion: 75 Resp: 389469

Ion Ratio Lower Upper

75 100

77 30.2 24.6 36.8

39 62.1 53.0 79.4



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

200000

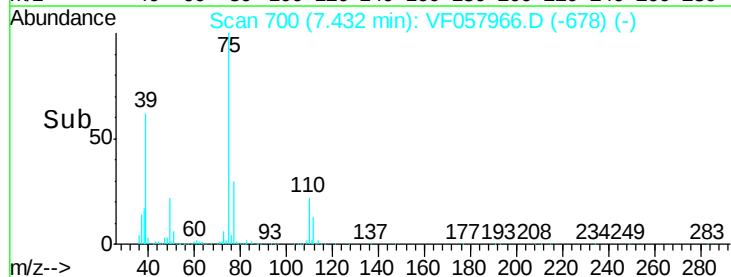
150000

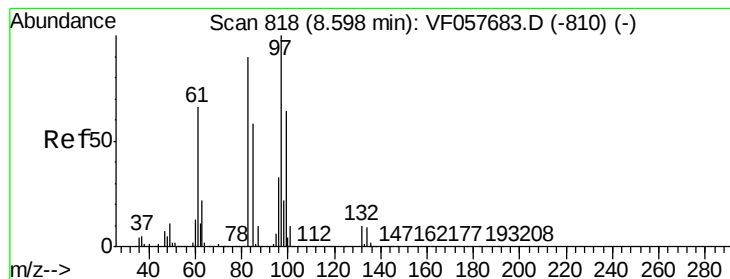
100000

50000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 61.88 ug/l

RT: 8.62 min Scan# 820

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 97 Resp: 208262

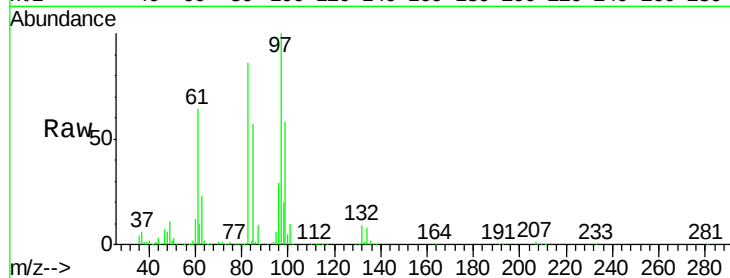
Ion Ratio Lower Upper

97 100

83 85.8 73.0 109.4

85 56.7 47.5 71.3

99 58.4 51.5 77.3

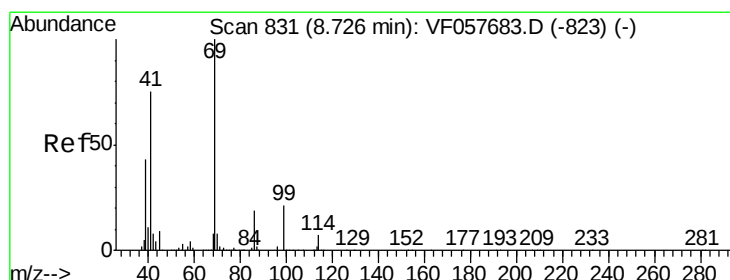
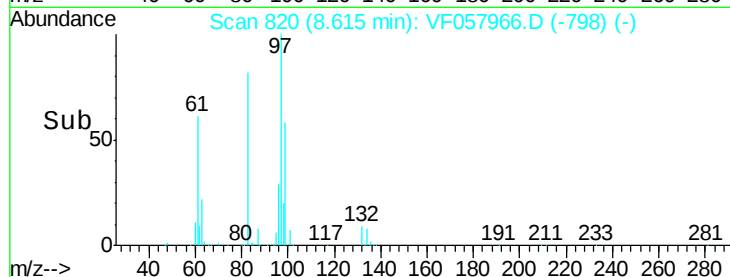
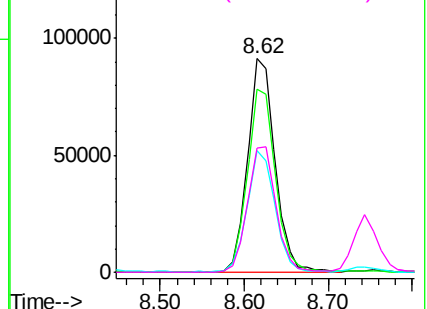


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 54.55 ug/l

RT: 8.74 min Scan# 833

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

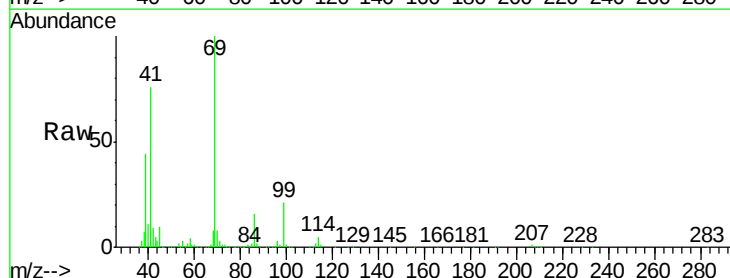
Tgt Ion: 69 Resp: 253775

Ion Ratio Lower Upper

69 100

41 76.4 61.1 91.7

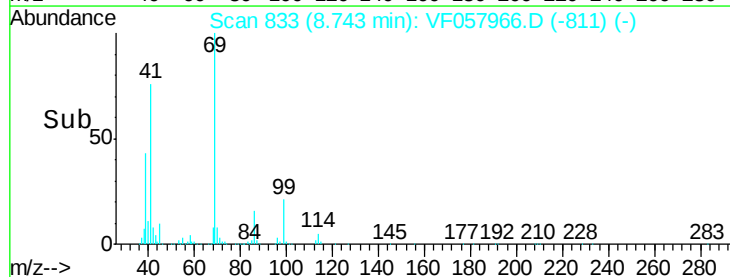
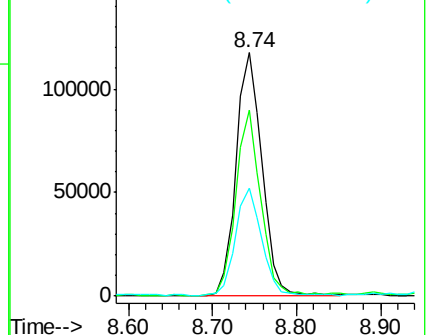
39 44.4 35.3 52.9

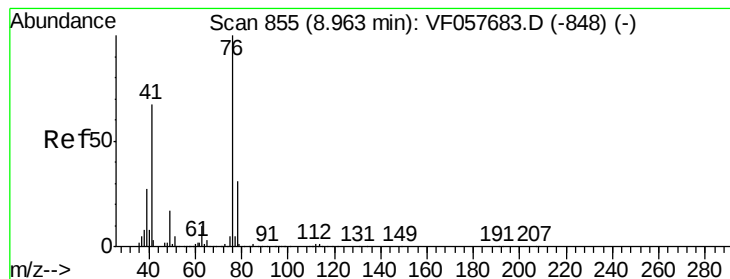


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 56.98 ug/l

RT: 8.98 min Scan# 857

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

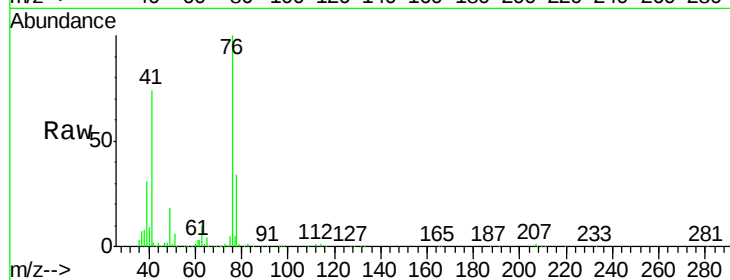
ClientSampleId :

Tot Ion: 76 Resp: 331532

Ion Ratio Lower Upper

76 100

78 33.5 25.0 37.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.98

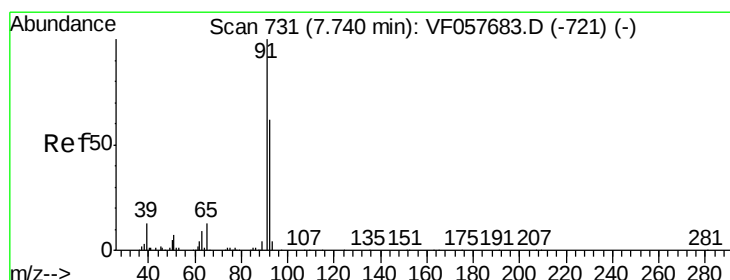
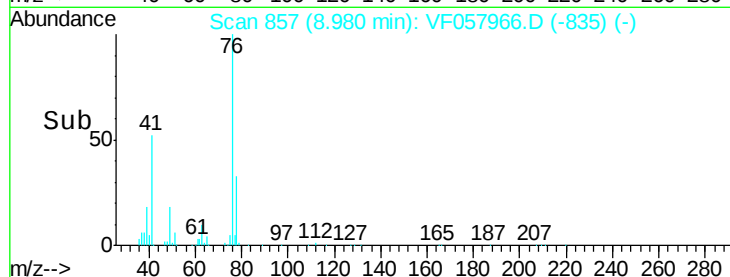
150000

100000

50000

0

Time--> 8.80 8.90 9.00 9.10



#58

2-Chloroethyl Vinyl ether

Concen: 119.55 ug/l

RT: 7.76 min Scan# 733

Delta R.T. 0.02 min

Lab File: VF057966.D

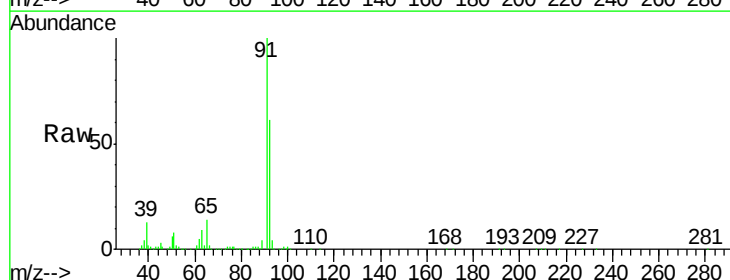
Acq: 23 May 2018 2:35

Tgt Ion: 63 Resp: 77563

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.76

40000

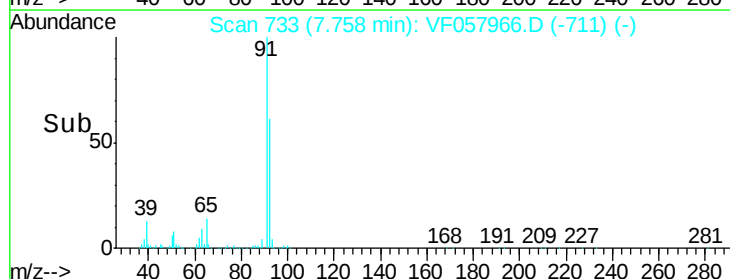
30000

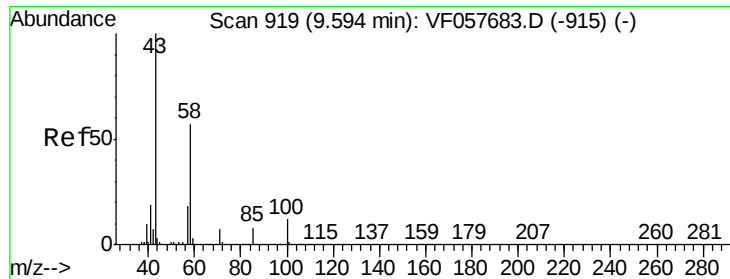
20000

10000

0

Time--> 7.70 7.80

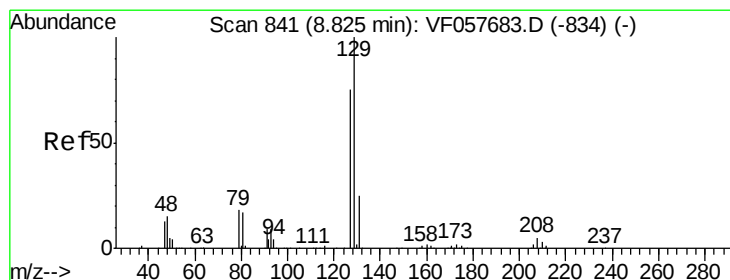
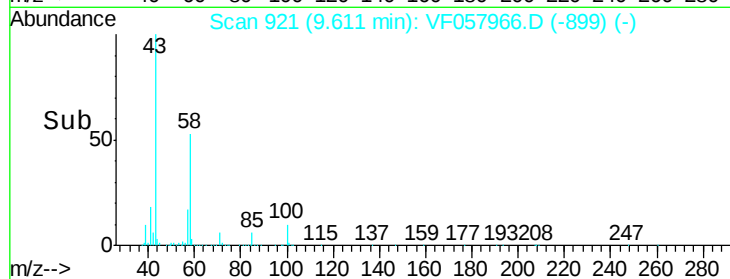
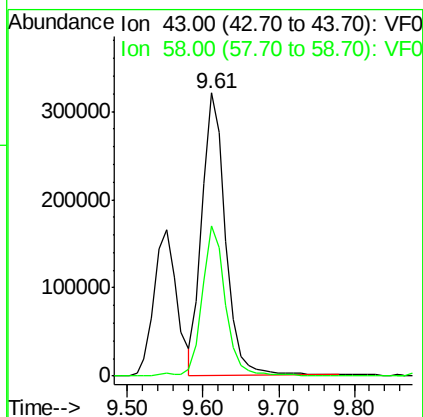
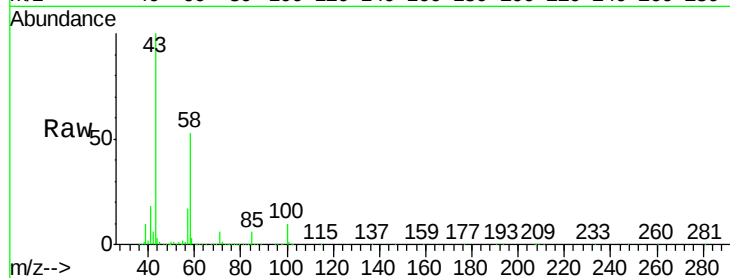




#59
2-Hexanone
Concen: 278.72 ug/l
RT: 9.61 min Scan# 921
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

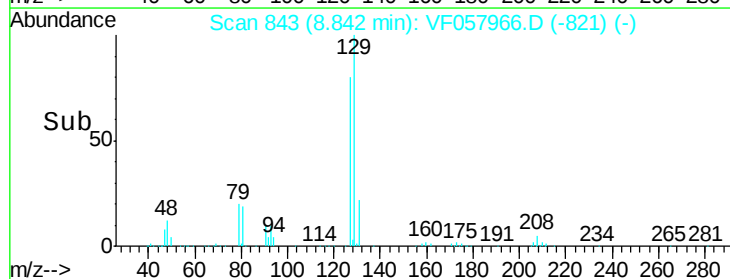
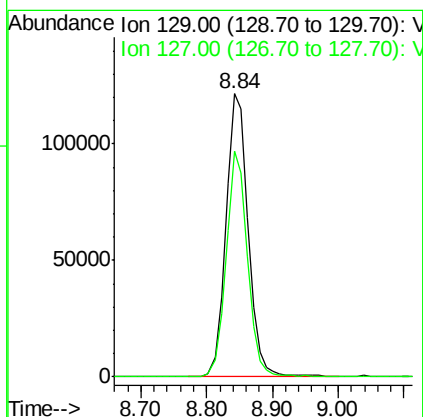
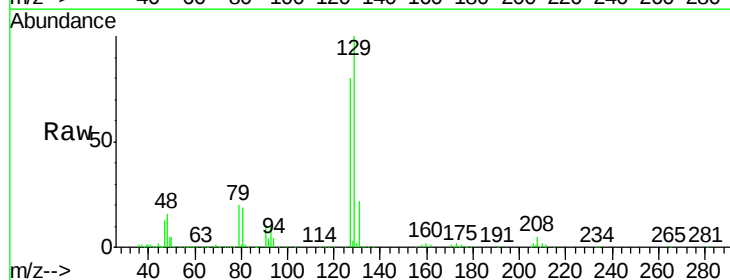
Instrument :
MSVOA_X
ClientSampleId :

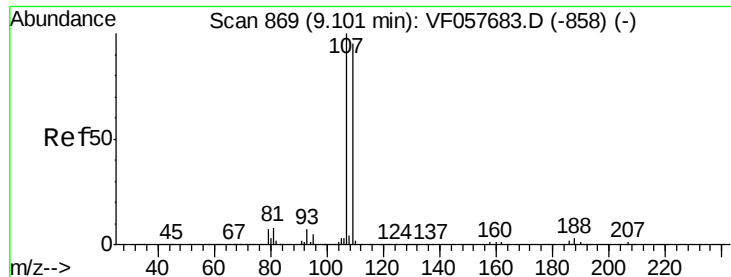
Tot Ion: 43 Resp: 692522
Ion Ratio Lower Upper
43 100
58 53.0 25.4 76.4



#60
Dibromochloromethane
Concen: 56.85 ug/l
RT: 8.84 min Scan# 843
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Tgt Ion: 129 Resp: 287186
Ion Ratio Lower Upper
129 100
127 79.6 37.3 111.9





#61

1,2-Dibromoethane

Concen: 59.26 ug/l

RT: 9.12 min Scan# 871

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

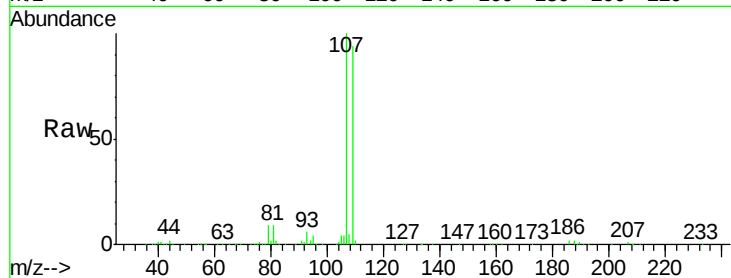
ClientSampleId :

Tot Ion: 107 Resp: 234297

Ion Ratio Lower Upper

107 100

109 94.2 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.12

100000

80000

60000

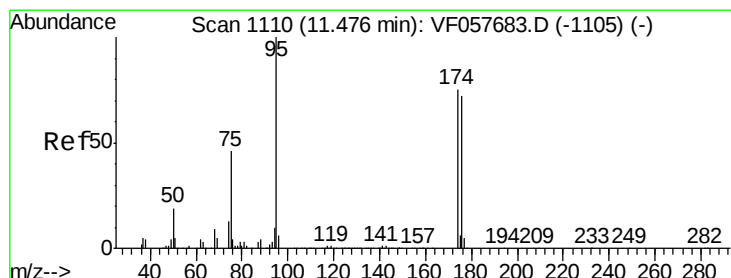
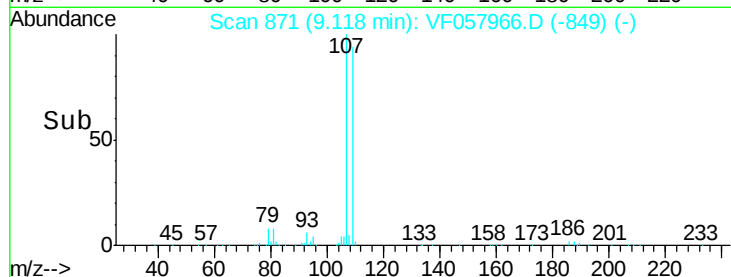
40000

20000

0

Time-->

9.00 9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 58.73 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

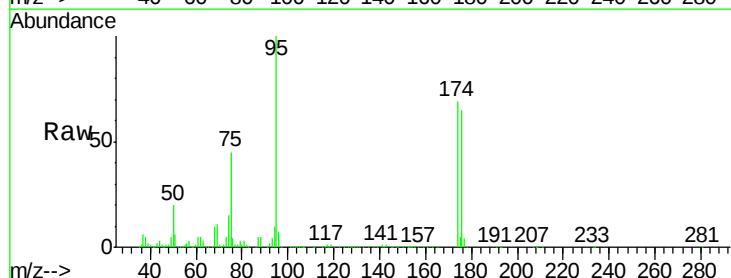
Tgt Ion: 95 Resp: 367673

Ion Ratio Lower Upper

95 100

174 69.1 0.0 149.8

176 65.2 0.0 143.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.49

250000

200000

150000

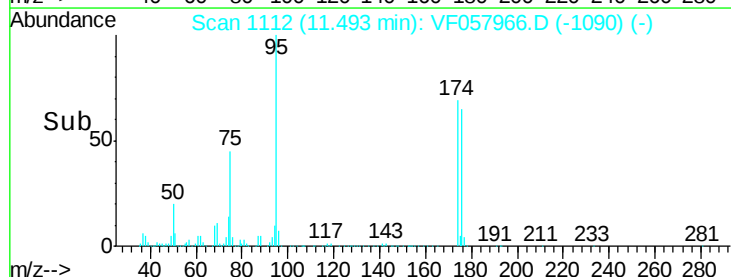
100000

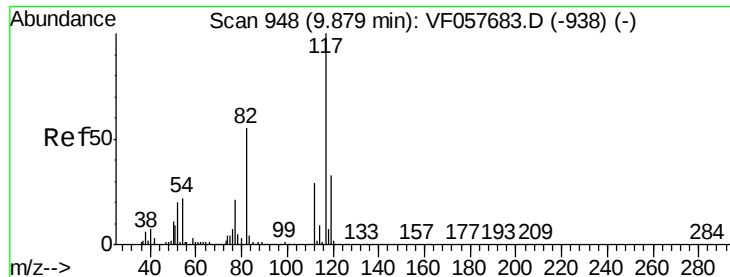
50000

0

Time-->

11.40 11.50 11.60 11.70

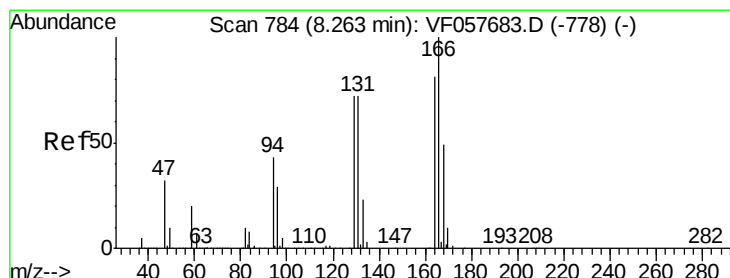
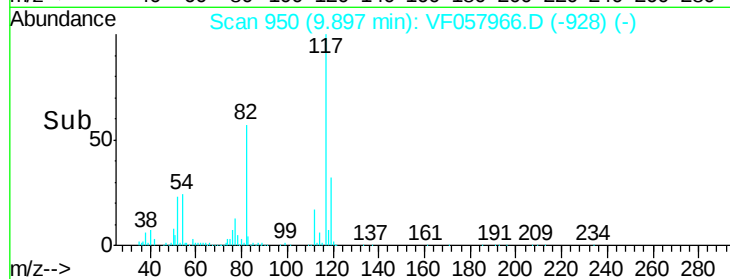
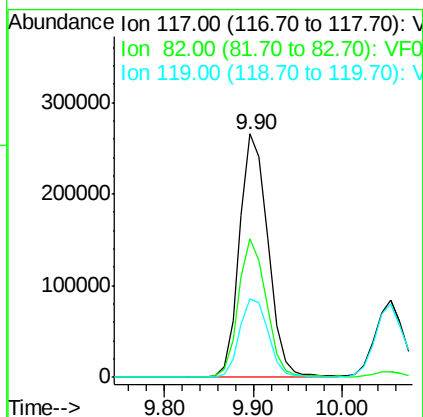
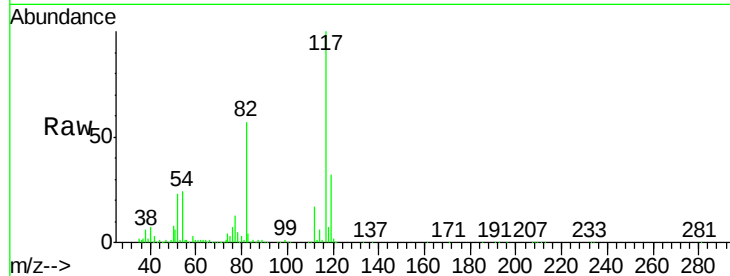




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 950
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

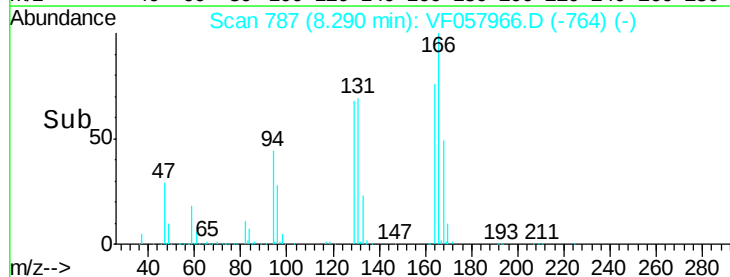
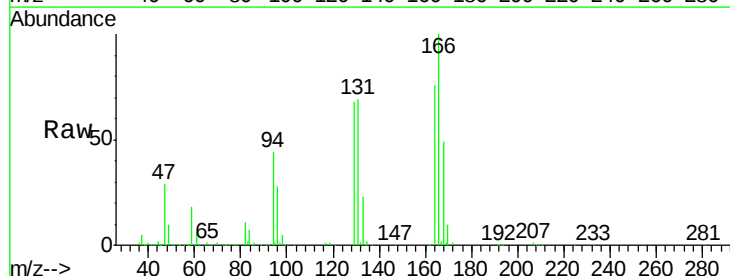
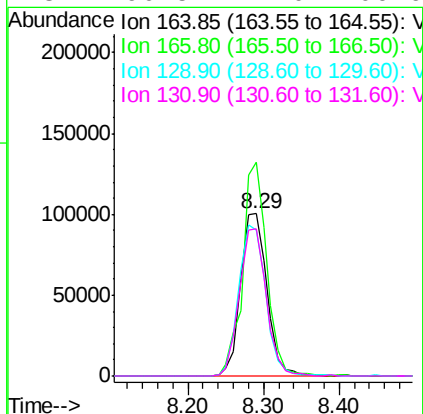
Instrument :
MSVOA_X
ClientSampleId :

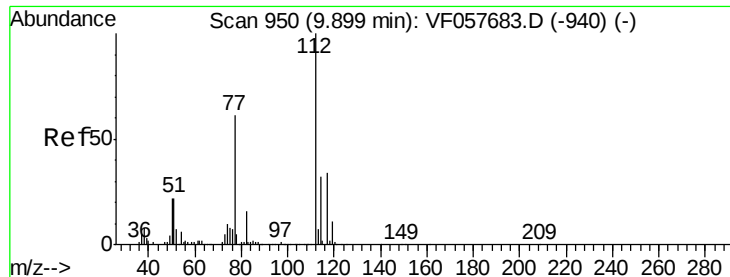
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.6	66.8
119	32.2	26.6	39.8



#64
Tetrachloroethene
Concen: 61.21 ug/l
RT: 8.29 min Scan# 787
Delta R.T. 0.03 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.7	99.4	149.0
129	89.7	72.1	108.1
131	90.5	71.0	106.6





#65

Chlorobenzene

Concen: 54.00 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

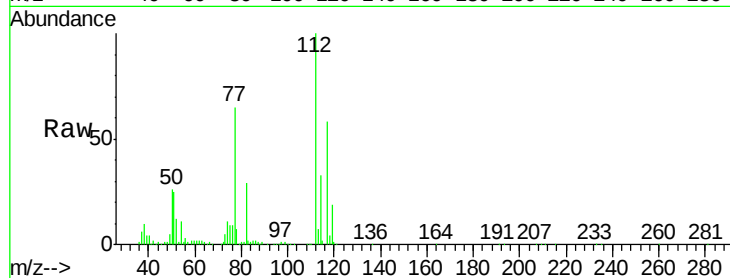
ClientSampled :

Tot Ion:112 Resp: 607159

Ion Ratio Lower Upper

112 100

114 32.8 25.3 37.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

300000

250000

200000

150000

100000

50000

0

9.80

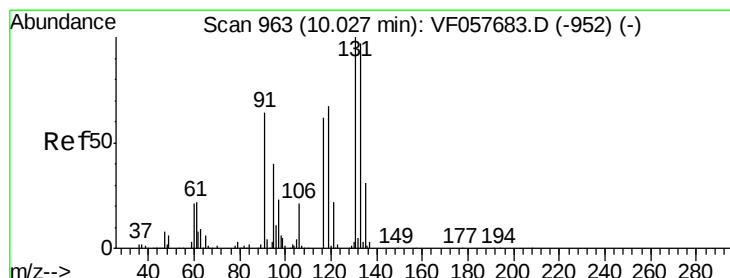
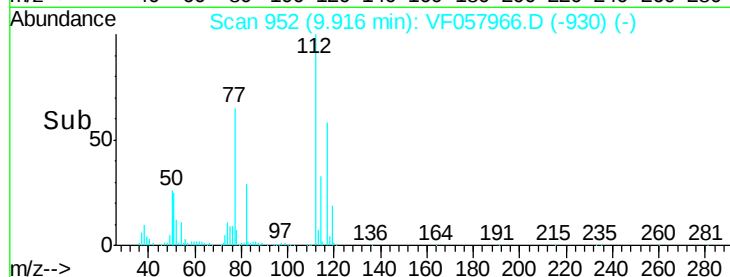
9.90

9.92

10.00

10.10

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 56.35 ug/l

RT: 10.05 min Scan# 966

Delta R.T. 0.03 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

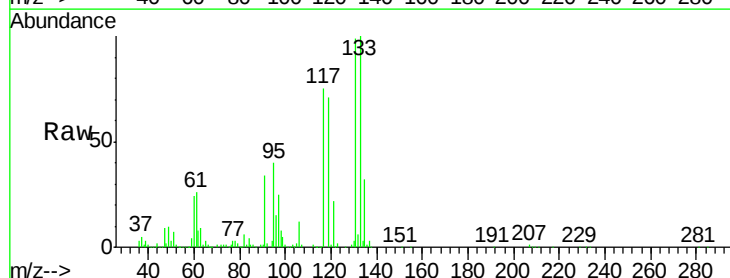
Tgt Ion:131 Resp: 254192

Ion Ratio Lower Upper

131 100

133 100.6 48.4 145.3

119 71.3 35.3 105.9



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

150000

100000

50000

0

9.90

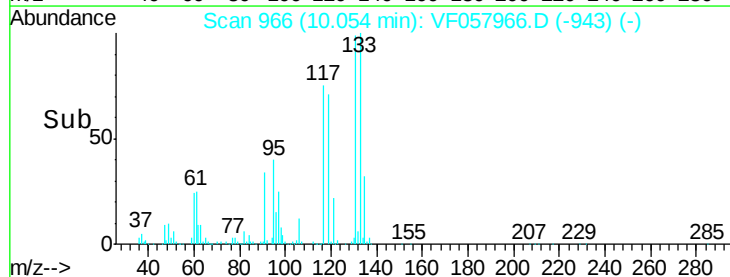
10.00

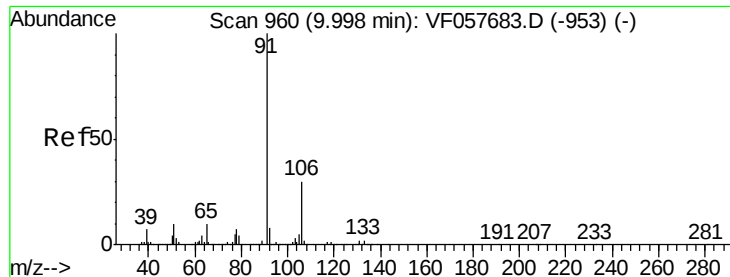
10.05

10.10

10.20

Time-->





#67

Ethyl Benzene

Concen: 55.05 ug/l

RT: 10.02 min Scan# 963

Delta R.T. 0.03 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

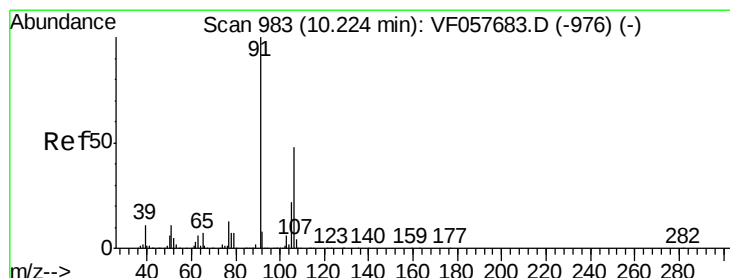
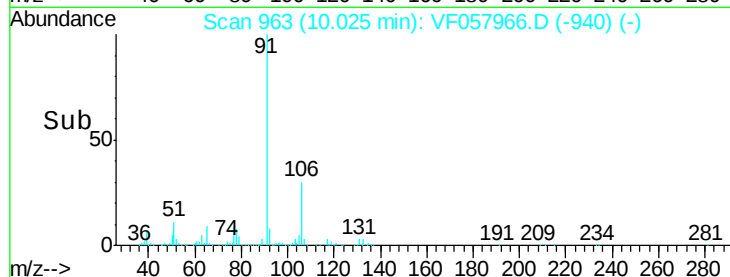
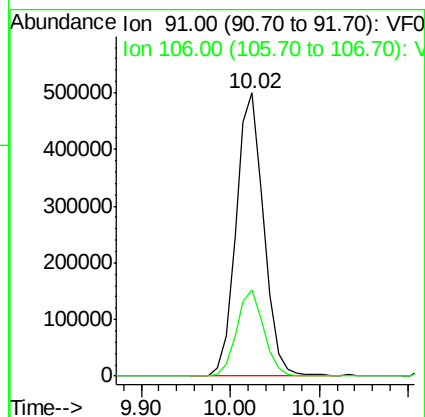
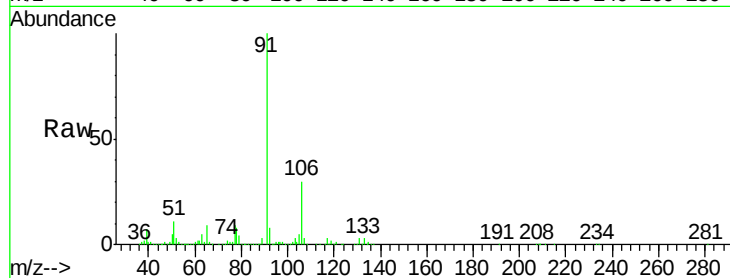
ClientSampled :

Tot Ion: 91 Resp: 1078899

Ion Ratio Lower Upper

91 100

106 30.4 24.1 36.1



#68

m/p-Xylenes

Concen: 110.97 ug/l

RT: 10.25 min Scan# 986

Delta R.T. 0.03 min

Lab File: VF057966.D

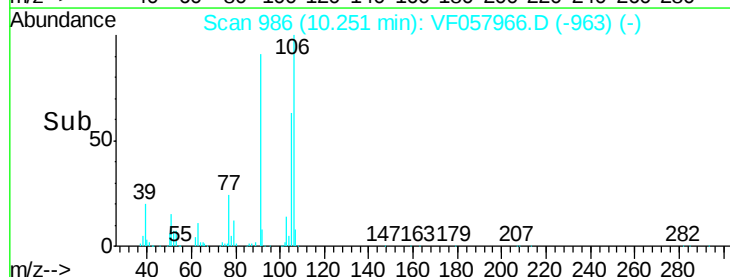
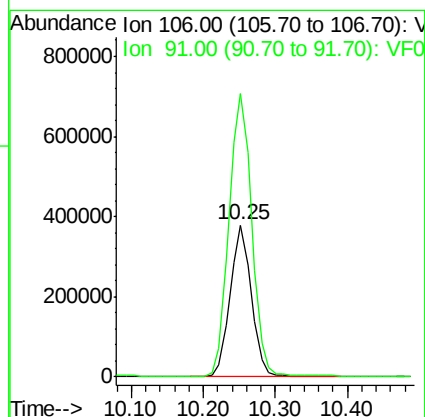
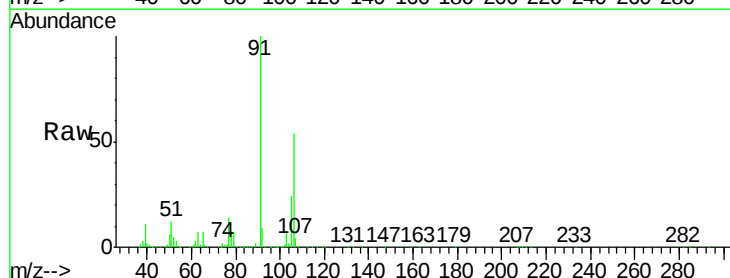
Acq: 23 May 2018 2:35

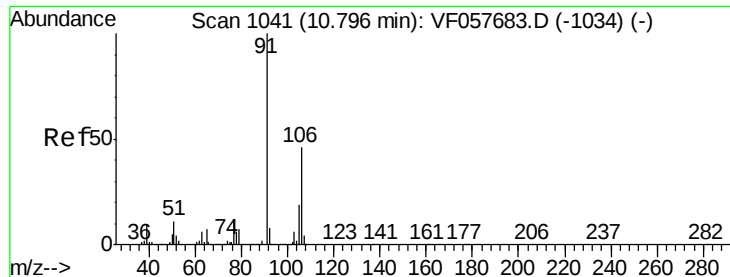
Tgt Ion: 106 Resp: 782619

Ion Ratio Lower Upper

106 100

91 186.1 166.7 250.1

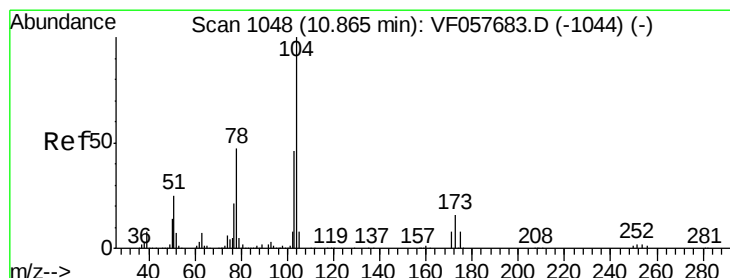
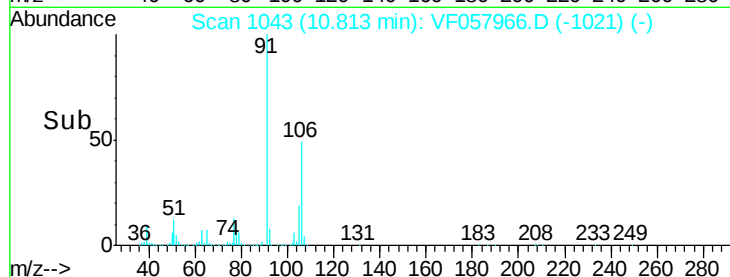
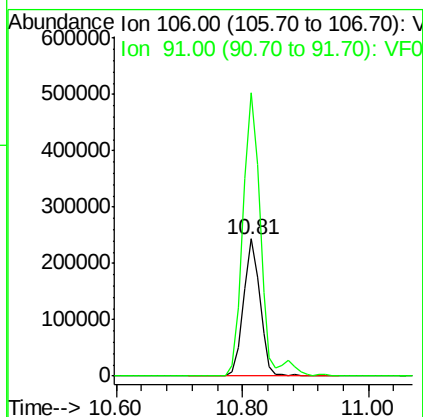
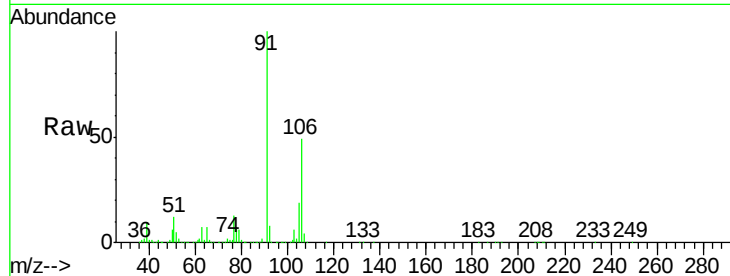




#69
o-Xylene
Concen: 56.03 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. 0.02 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

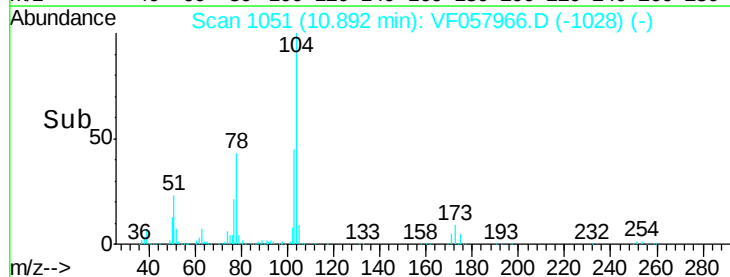
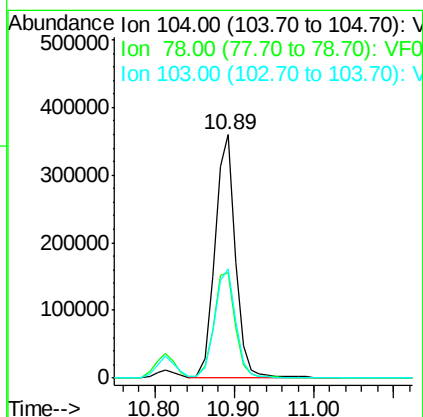
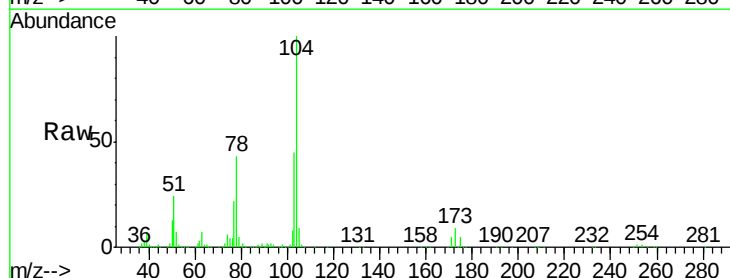
Instrument :
MSVOA_X
ClientSampled :

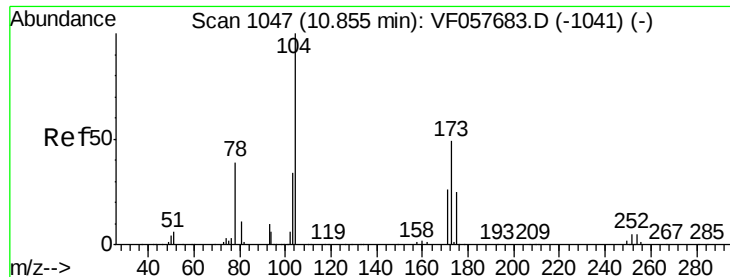
Tot Ion:106 Resp: 439218
Ion Ratio Lower Upper
106 100
91 206.2 108.6 325.6



#70
Styrene
Concen: 52.83 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.03 min
Lab File: VF057966.D
Acq: 23 May 2018 2:35

Tgt Ion:104 Resp: 650263
Ion Ratio Lower Upper
104 100
78 43.1 37.6 56.4
103 44.9 37.4 56.0





#71

Bromoform

Concen: 47.35 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampled :

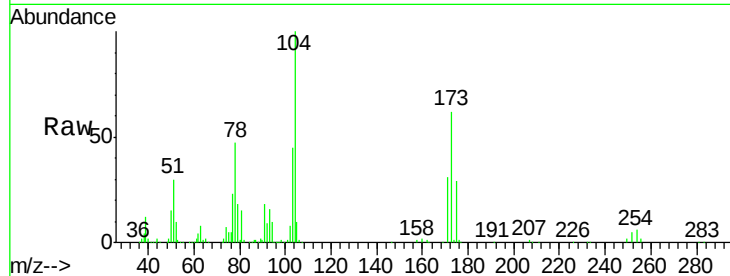
Tot Ion:173 Resp: 165726

Ion Ratio Lower Upper

173 100

175 47.0 25.0 75.0

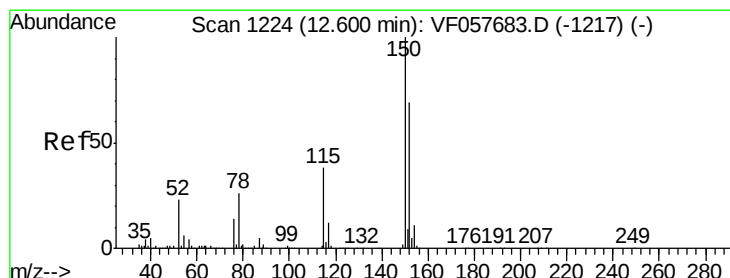
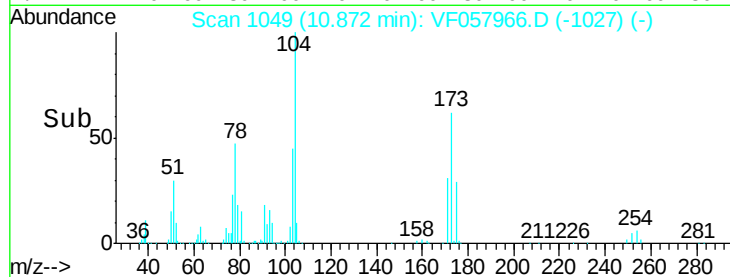
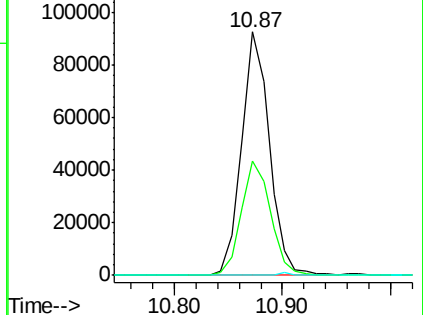
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

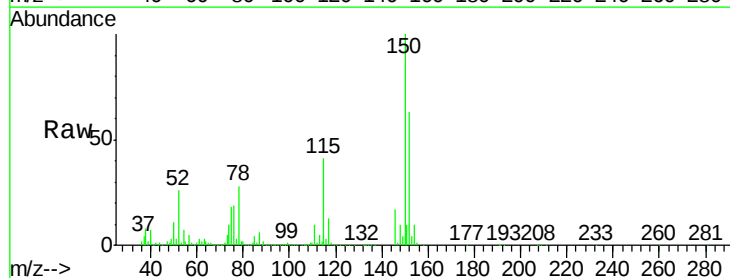
Tgt Ion:152 Resp: 327642

Ion Ratio Lower Upper

152 100

115 64.8 28.4 85.2

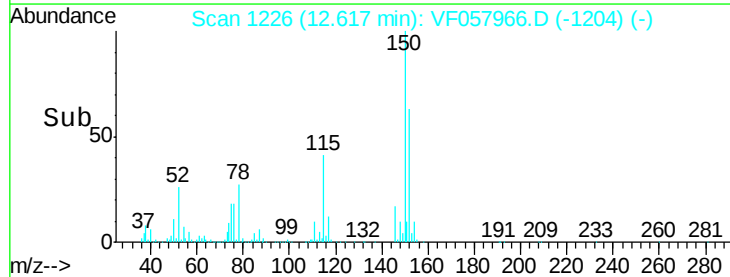
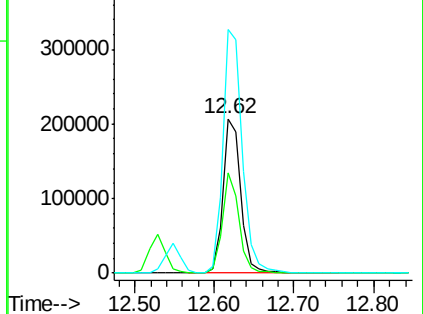
150 158.0 0.0 316.6

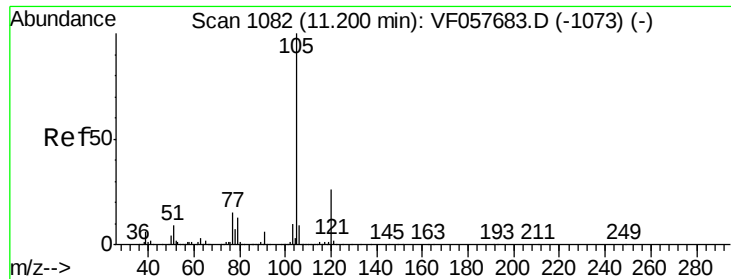


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 57.82 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

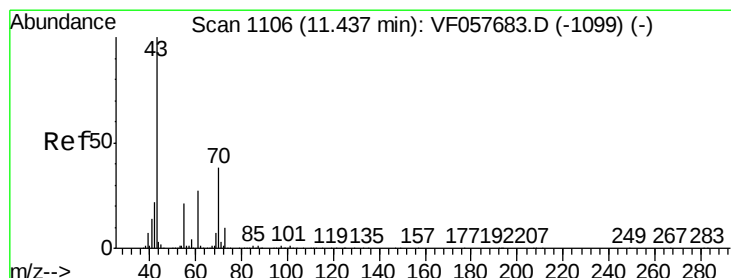
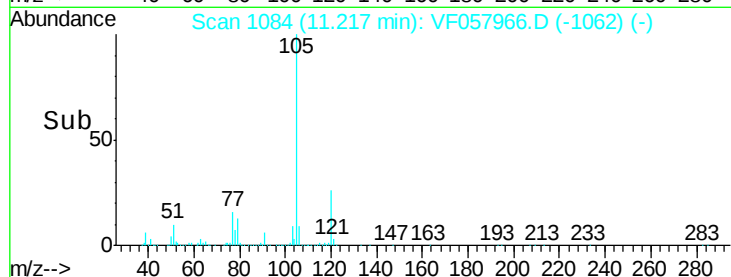
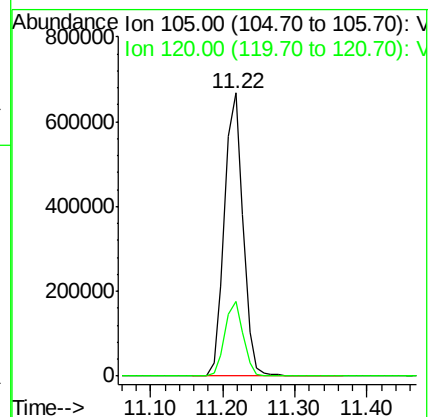
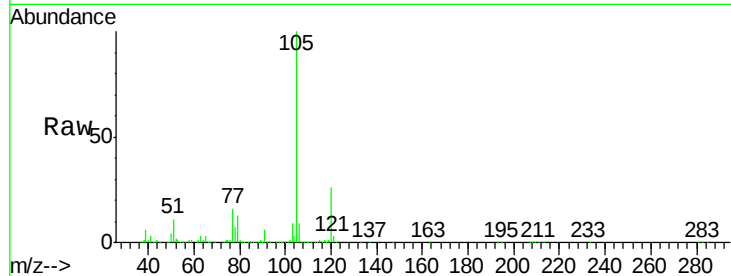
ClientSampleId :

Tot Ion:105 Resp: 1190223

Ion Ratio Lower Upper

105 100

120 26.5 12.9 38.6



#74

N-ethyl acetate

Concen: 57.34 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Tgt Ion: 43 Resp: 460191

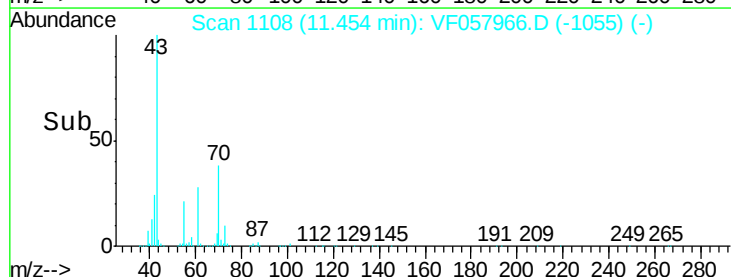
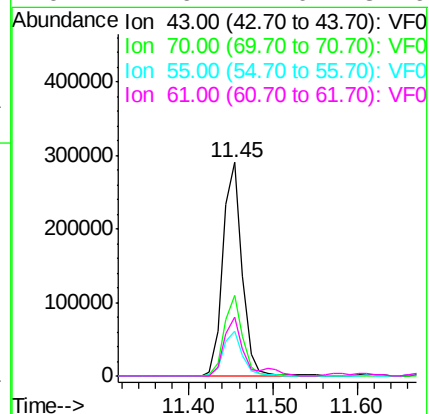
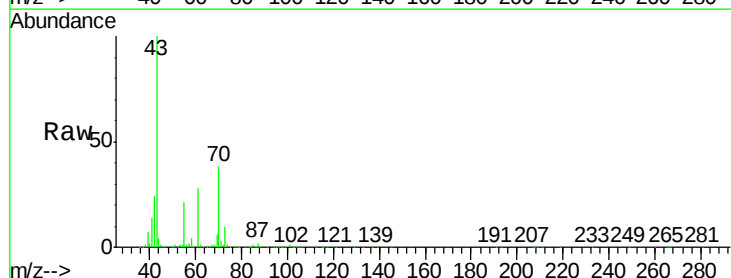
Ion Ratio Lower Upper

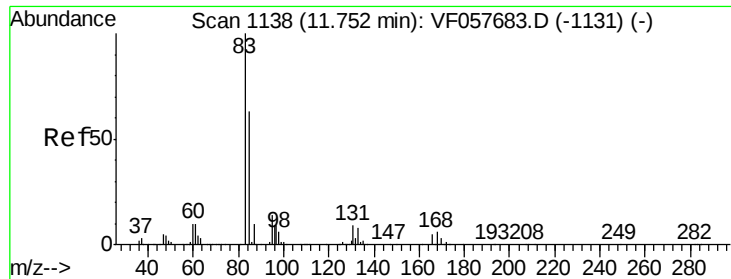
43 100

70 37.7 30.2 45.4

55 20.9 17.1 25.7

61 27.6 21.0 31.6





#75

1,1,2,2-Tetrachloroethane

Concen: 59.33 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampled :

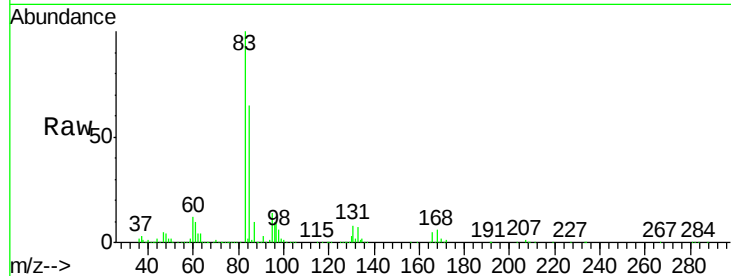
Tot Ion: 83 Resp: 313467

Ion Ratio Lower Upper

83 100

131 7.7 4.3 12.9

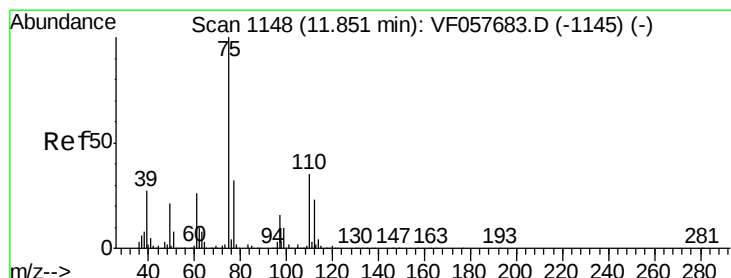
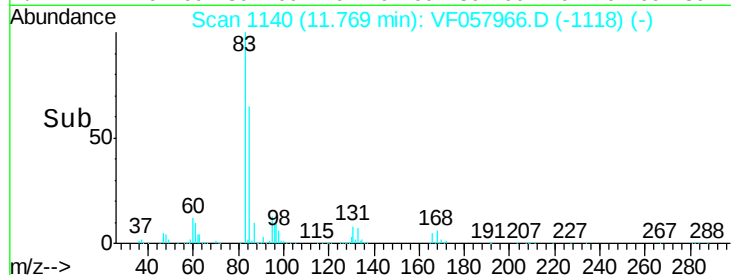
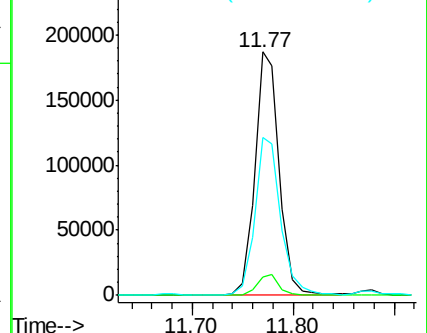
85 64.7 31.4 94.2



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 57.53 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.03 min

Lab File: VF057966.D

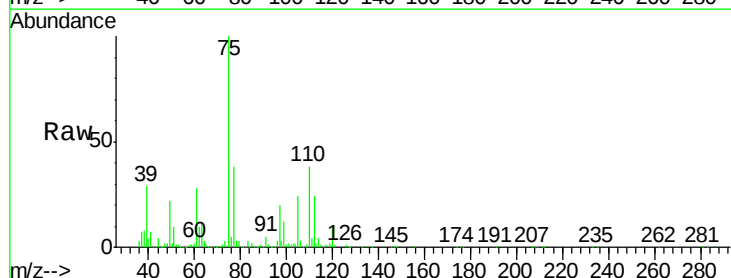
Acq: 23 May 2018 2:35

Tgt Ion: 75 Resp: 221603

Ion Ratio Lower Upper

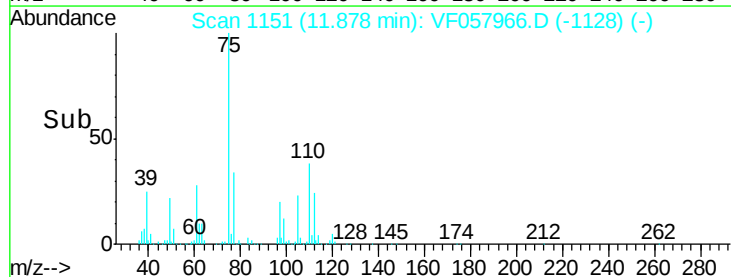
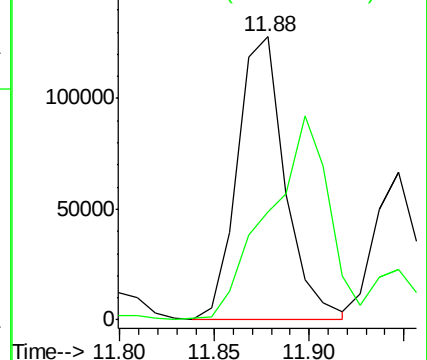
75 100

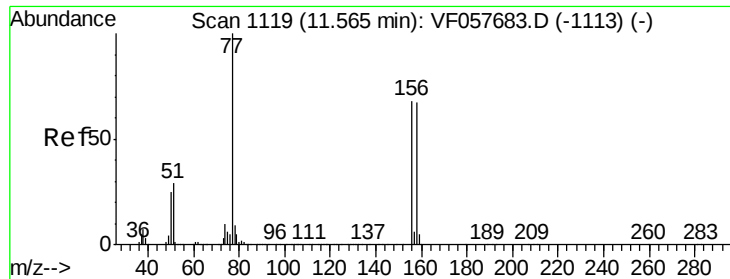
77 38.1 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 55.82 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

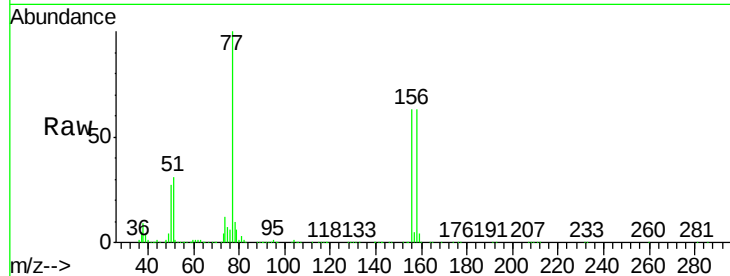
Tot Ion:156 Resp: 306963

Ion Ratio Lower Upper

156 100

77 158.4 73.4 220.2

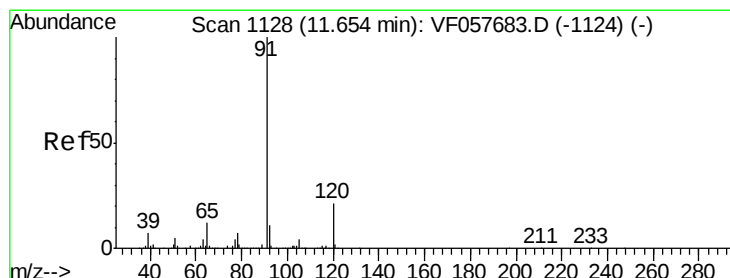
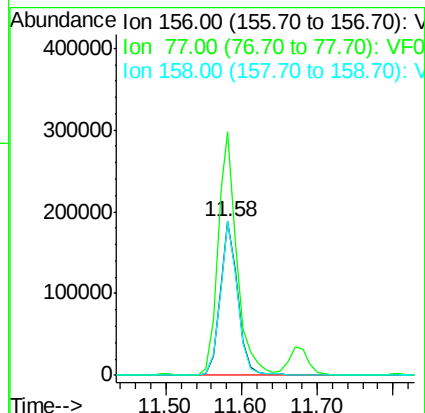
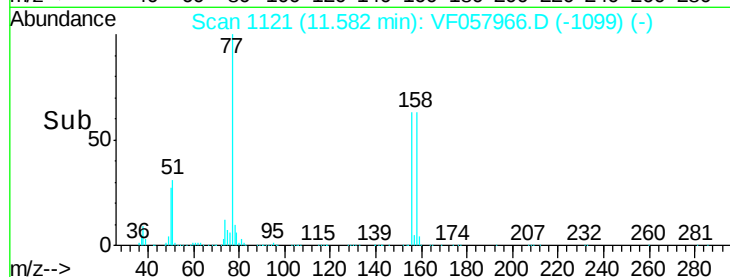
158 100.3 49.0 147.2



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: 54.86 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.03 min

Lab File: VF057966.D

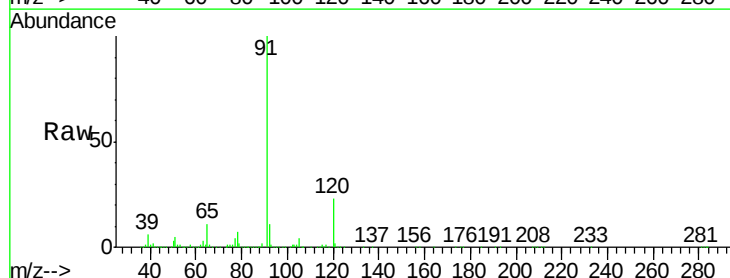
Acq: 23 May 2018 2:35

Tgt Ion: 91 Resp: 1386941

Ion Ratio Lower Upper

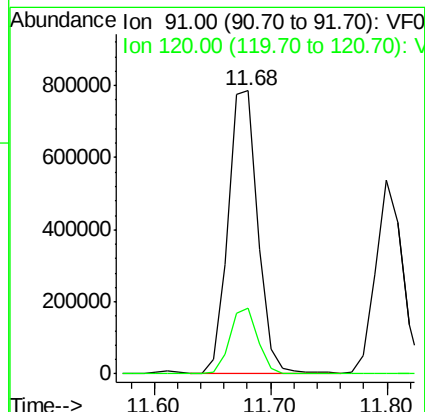
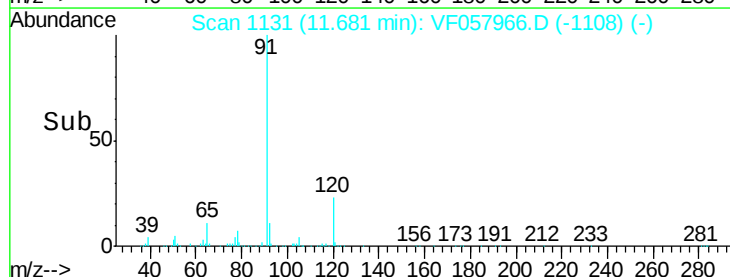
91 100

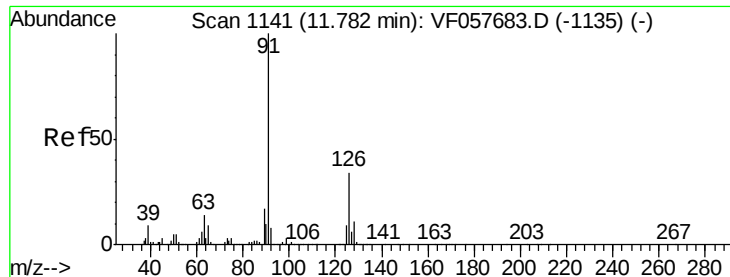
120 23.1 10.4 31.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 56.72 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

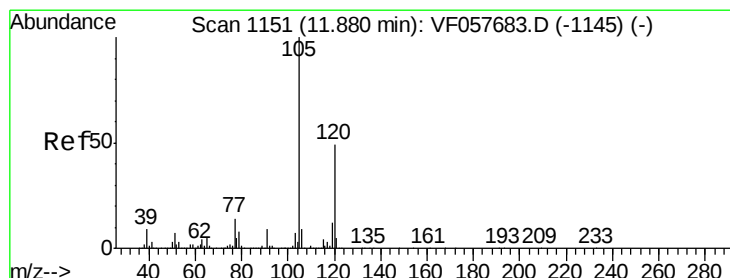
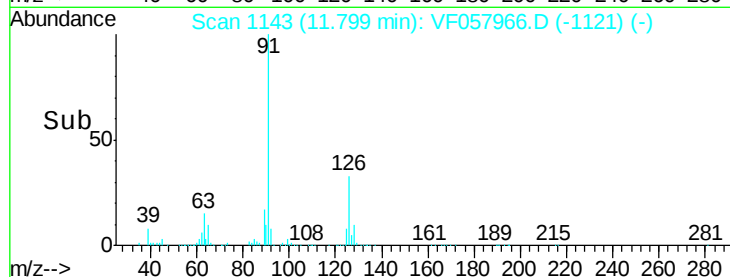
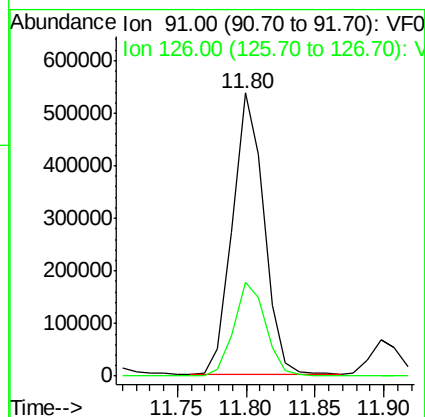
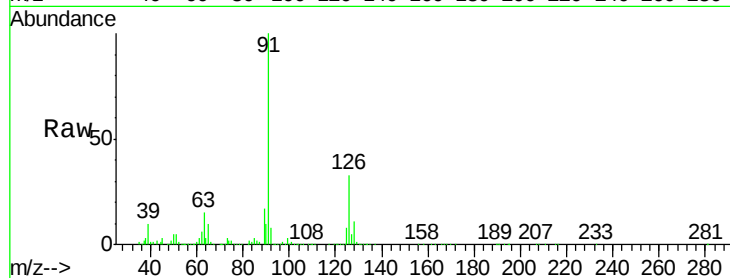
ClientSampleId :

Tot Ion: 91 Resp: 851154

Ion Ratio Lower Upper

91 100

126 33.1 16.8 50.4



#80

1,3,5-Trimethylbenzene

Concen: 53.69 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.02 min

Lab File: VF057966.D

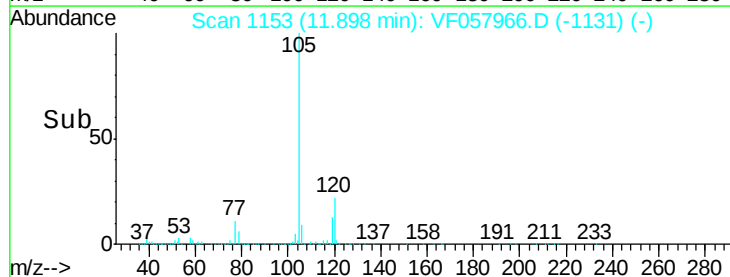
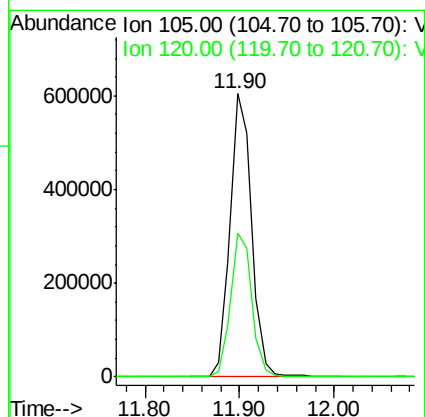
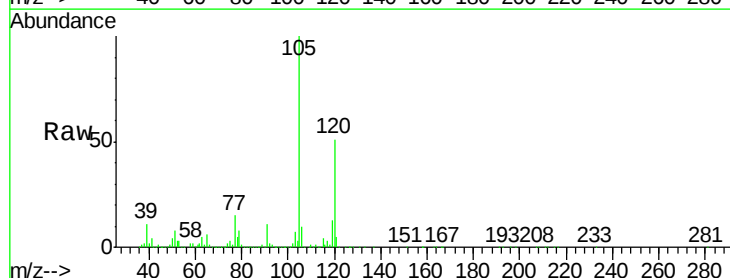
Acq: 23 May 2018 2:35

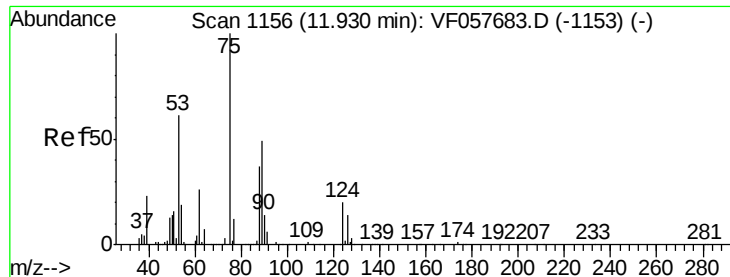
Tgt Ion:105 Resp: 958208

Ion Ratio Lower Upper

105 100

120 50.9 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 51.56 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

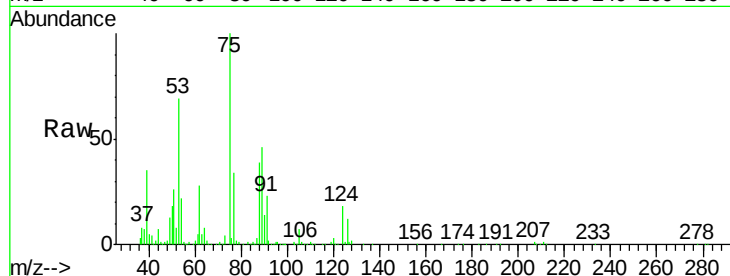
Tot Ion: 75 Resp: 131591

Ion Ratio Lower Upper

75 100

53 69.4 50.7 76.1

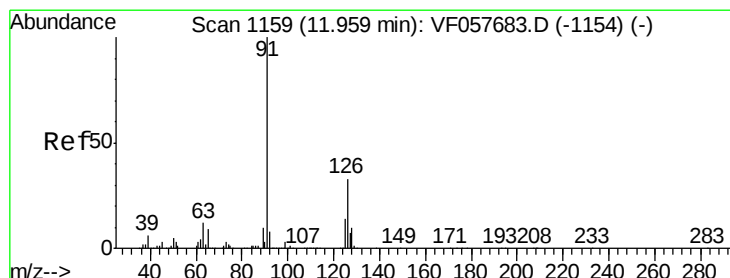
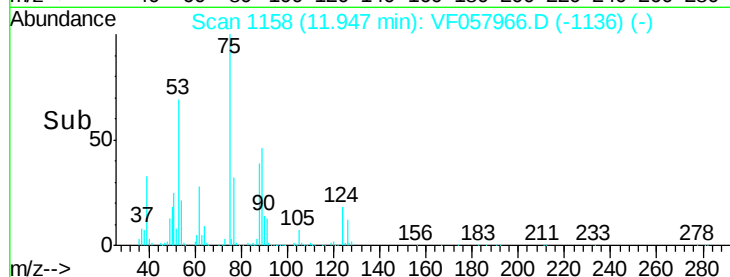
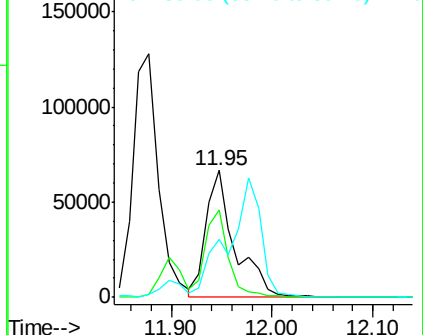
89 45.8 40.3 60.5



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: 55.08 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.02 min

Lab File: VF057966.D

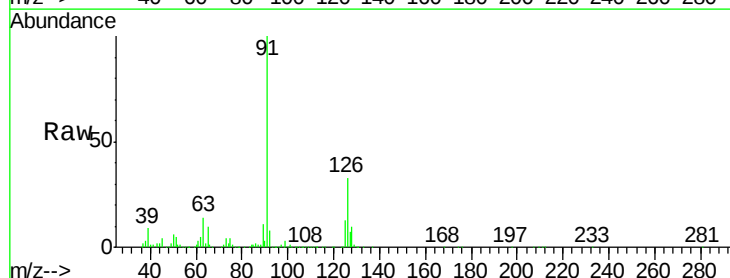
Acq: 23 May 2018 2:35

Tgt Ion: 91 Resp: 902545

Ion Ratio Lower Upper

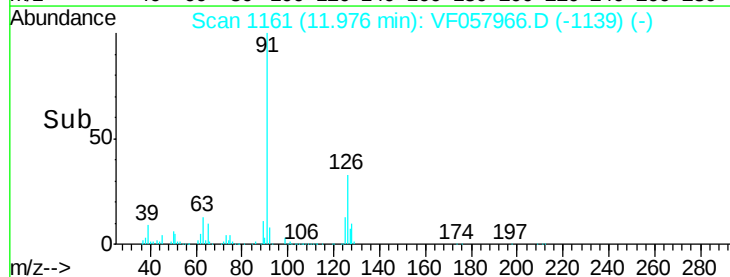
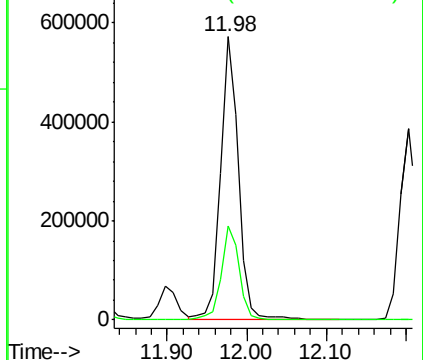
91 100

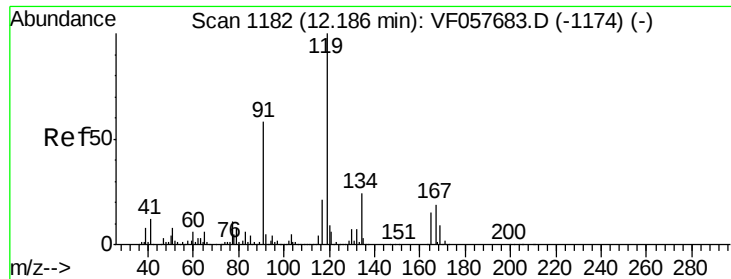
126 33.1 16.6 49.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 55.12 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

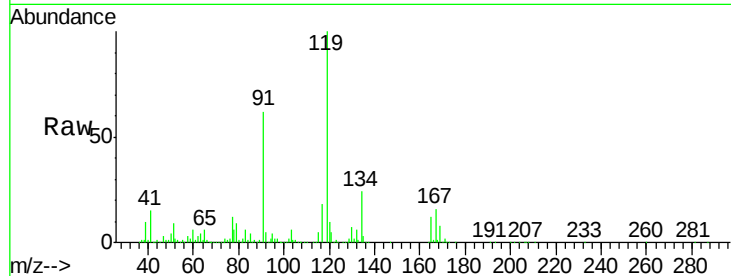
Tot Ion:119 Resp: 978856

Ion Ratio Lower Upper

119 100

91 61.8 29.1 87.3

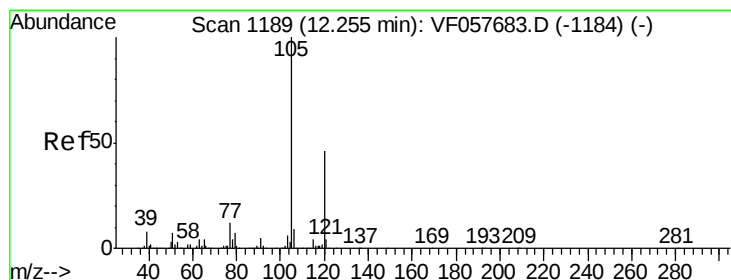
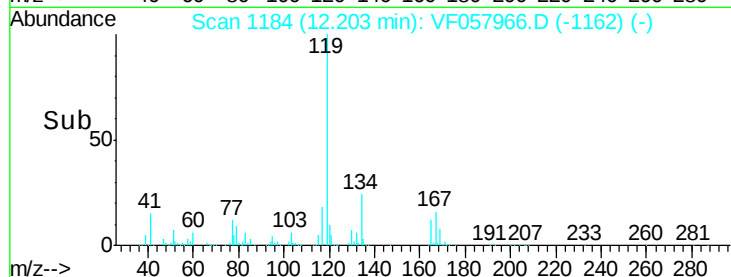
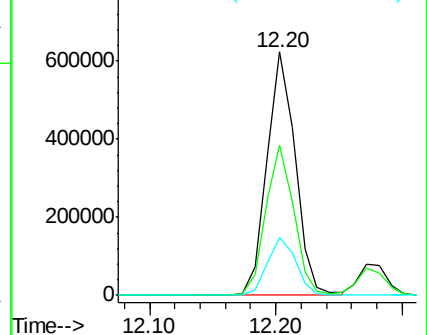
134 23.7 11.9 35.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 54.35 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. 0.02 min

Lab File: VF057966.D

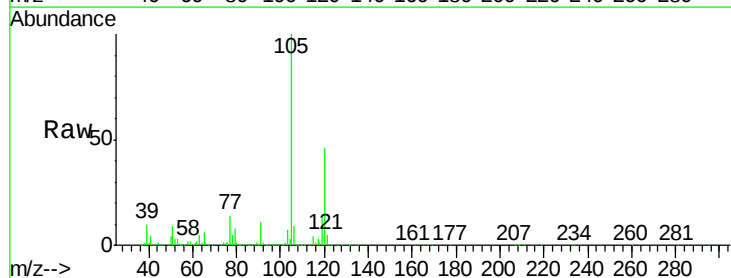
Acq: 23 May 2018 2:35

Tgt Ion:105 Resp: 994386

Ion Ratio Lower Upper

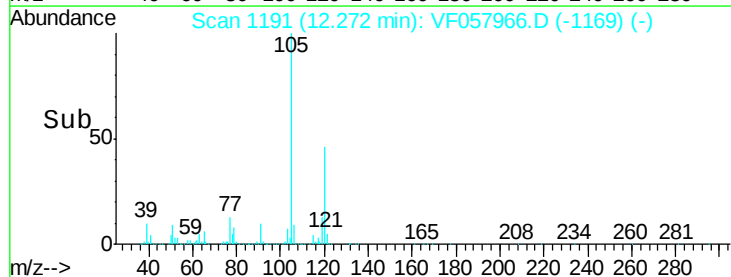
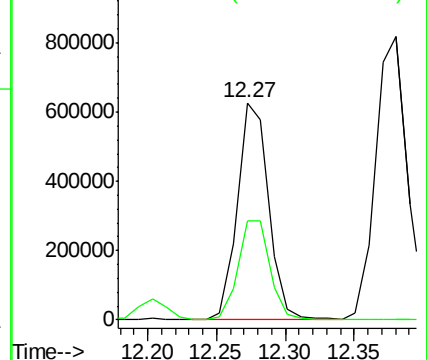
105 100

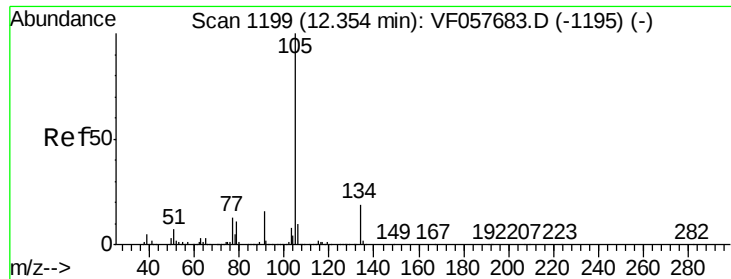
120 45.7 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

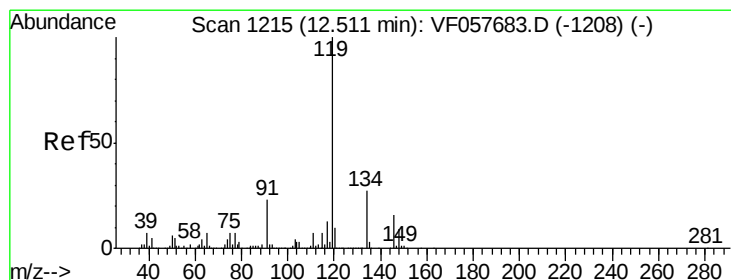
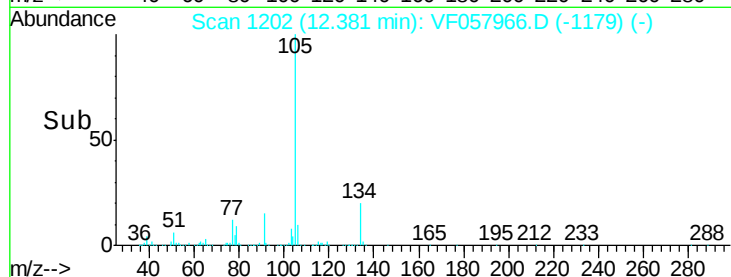
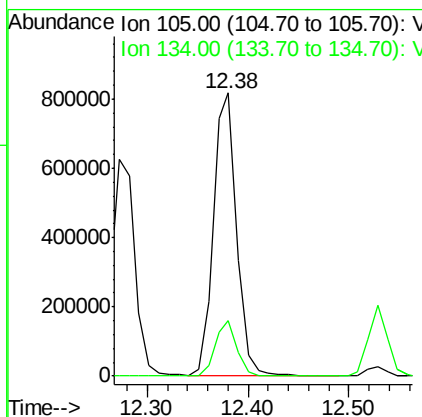
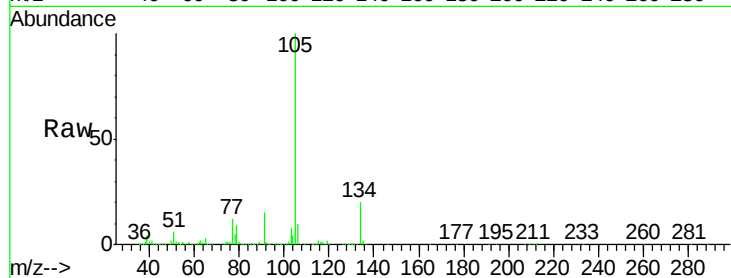




#85
 sec-Butylbenzene
 Concen: 56.32 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. 0.03 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

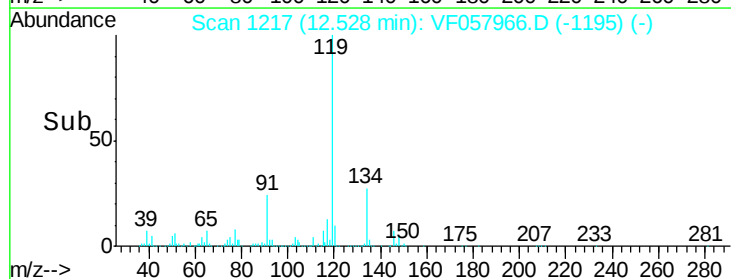
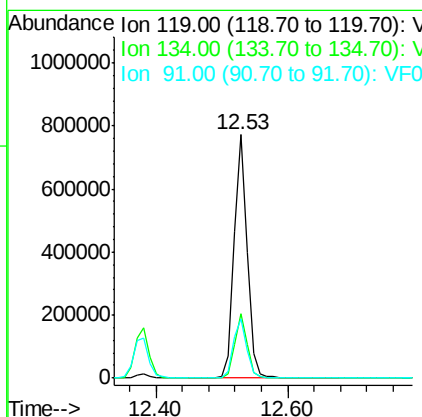
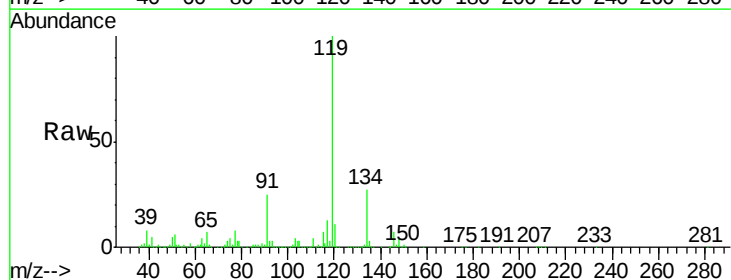
Instrument :
 MSVOA_X
 ClientSampleID :

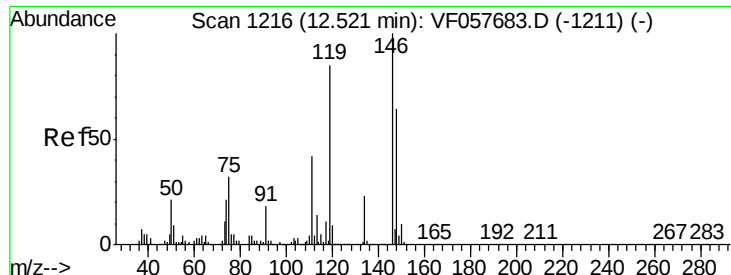
Tot Ion:105 Resp: 1314116
 Ion Ratio Lower Upper
 105 100
 134 19.7 9.3 27.9



#86
 p-Isopropyltoluene
 Concen: 53.25 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. 0.02 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Tgt Ion:119 Resp: 1074997
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.4 40.2
 91 24.6 11.5 34.5





#87

1,3-Dichlorobenzene

Concen: 52.06 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. 0.03 min

Lab File: VF057966.D

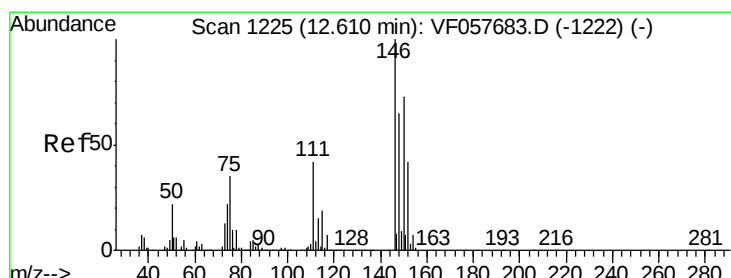
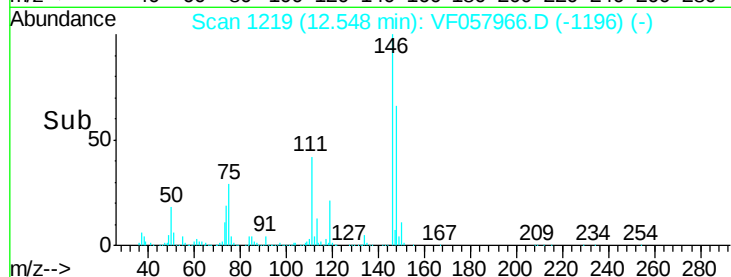
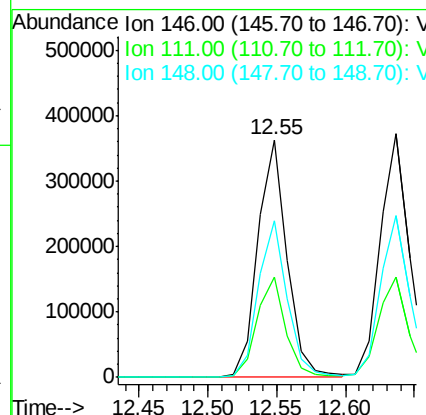
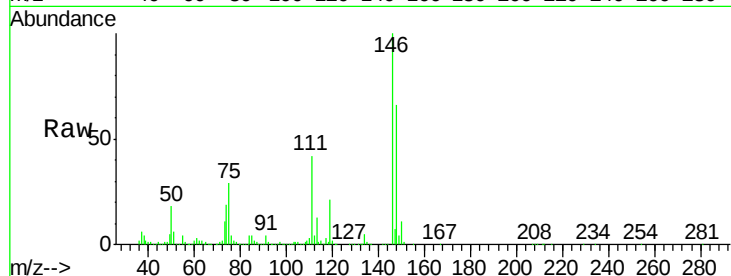
Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	146	Resp:	540227
Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.0	63.0
148	65.9	32.2	96.6



#88

1,4-Dichlorobenzene

Concen: 55.03 ug/l

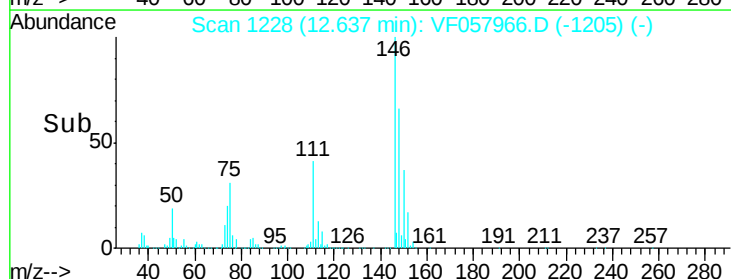
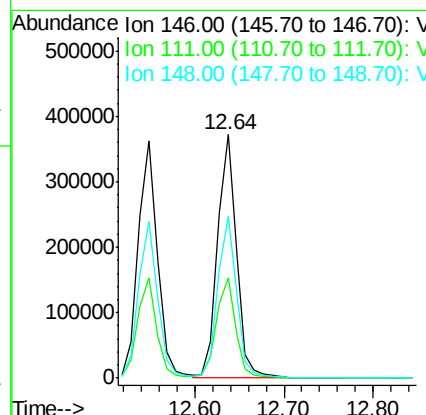
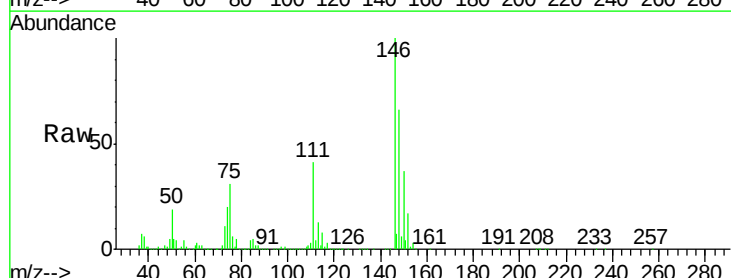
RT: 12.64 min Scan# 1228

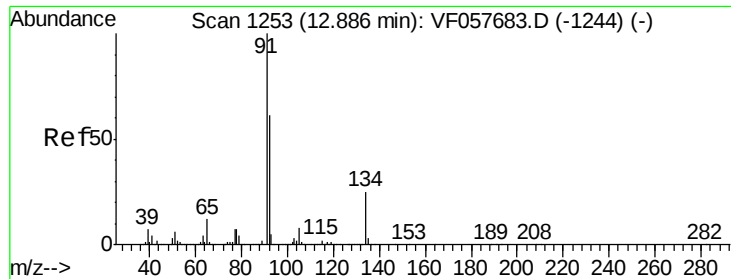
Delta R.T. 0.03 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Tgt Ion:	146	Resp:	551651
Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.1	63.3
148	66.2	32.3	96.9





#89

n-Butylbenzene

Concen: 61.93 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. 0.03 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampled :

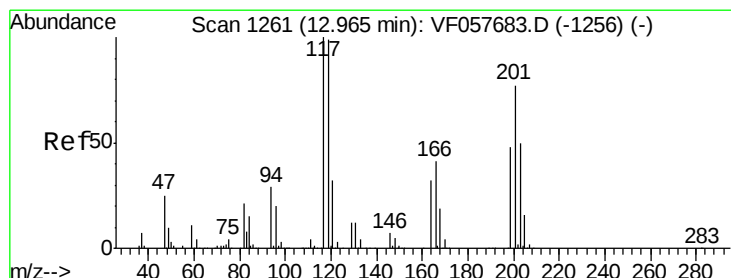
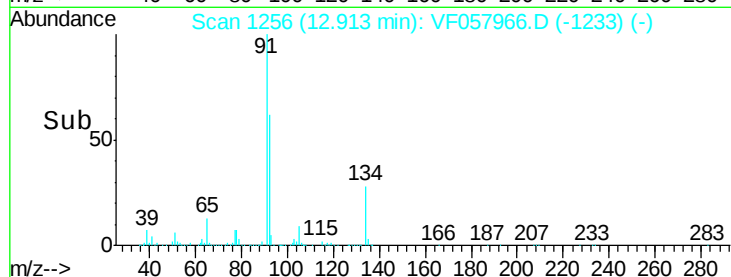
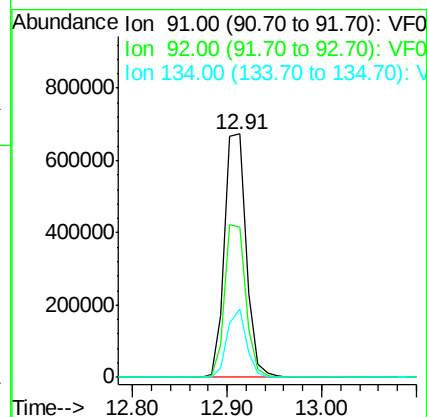
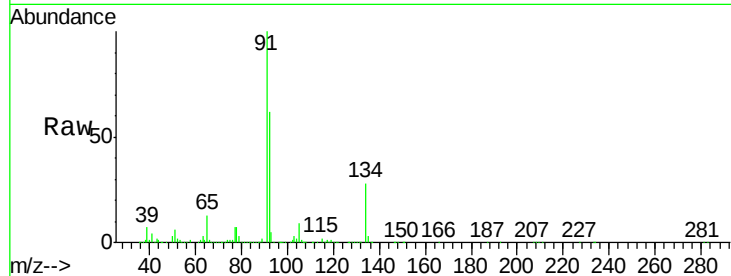
Tot Ion: 91 Resp: 1070651

Ion Ratio Lower Upper

91 100

92 61.5 30.3 91.0

134 28.0 12.7 38.1



#90

Hexachloroethane

Concen: 54.26 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.02 min

Lab File: VF057966.D

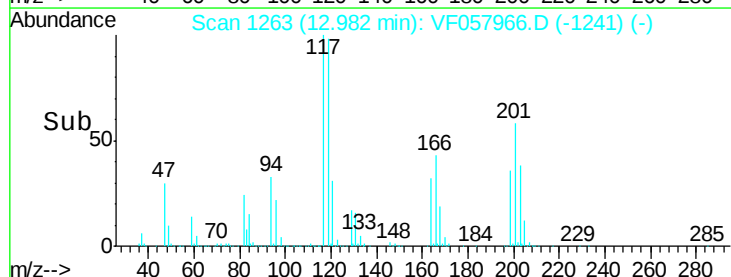
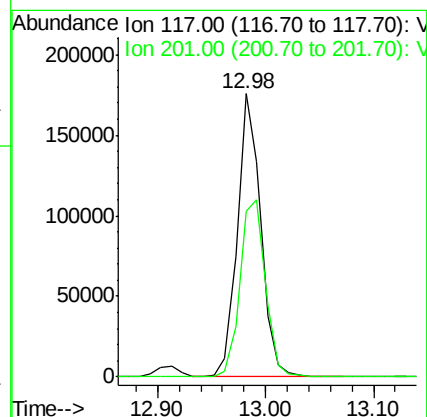
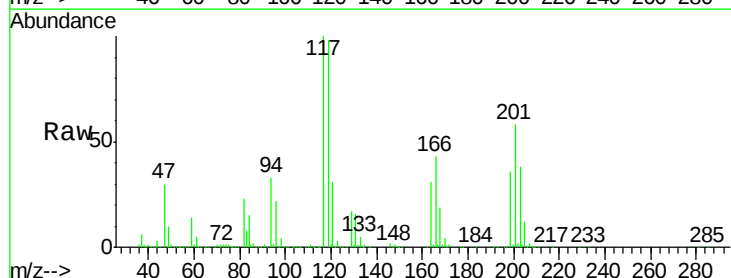
Acq: 23 May 2018 2:35

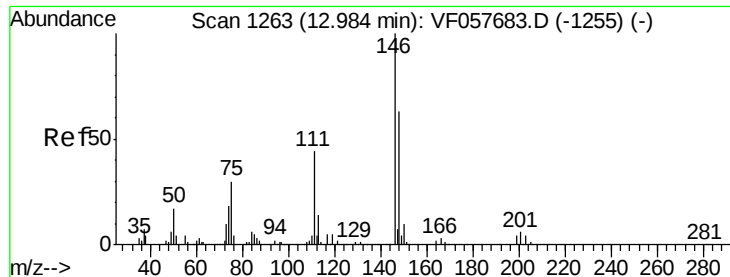
Tgt Ion: 117 Resp: 263649

Ion Ratio Lower Upper

117 100

201 58.3 38.6 115.7





#91

1,2-Dichlorobenzene

Concen: 56.55 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.03 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

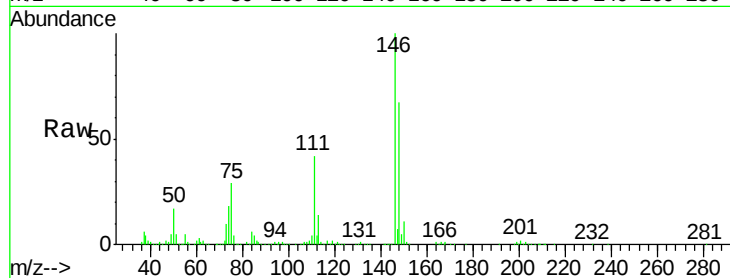
Tot Ion:146 Resp: 539004

Ion Ratio Lower Upper

146 100

111 42.2 22.0 66.0

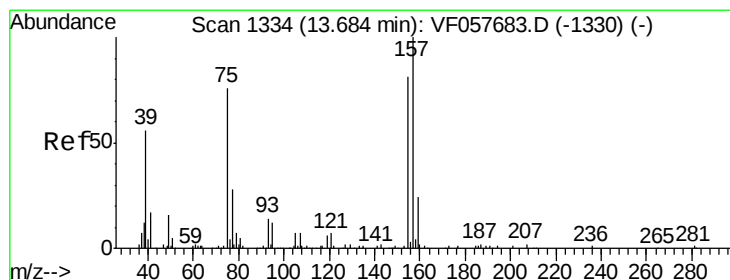
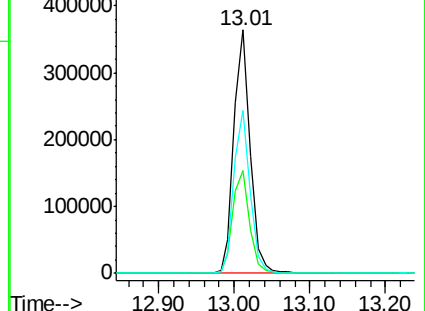
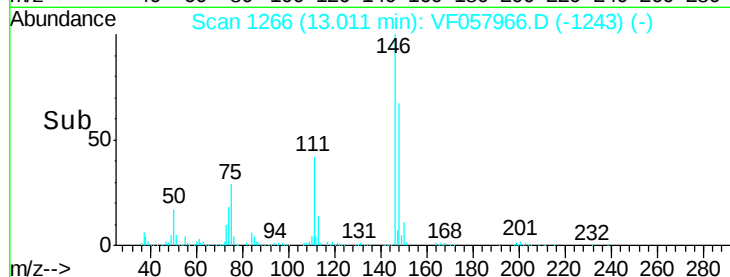
148 67.0 31.4 94.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 55.89 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. 0.02 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

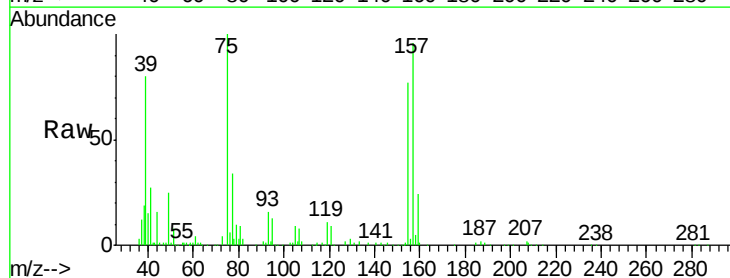
Tgt Ion: 75 Resp: 59443

Ion Ratio Lower Upper

75 100

155 76.7 52.8 158.4

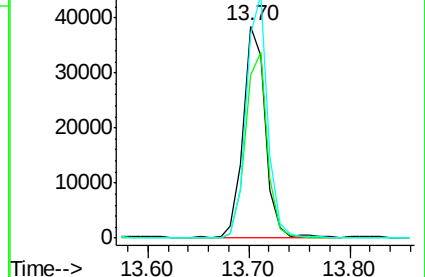
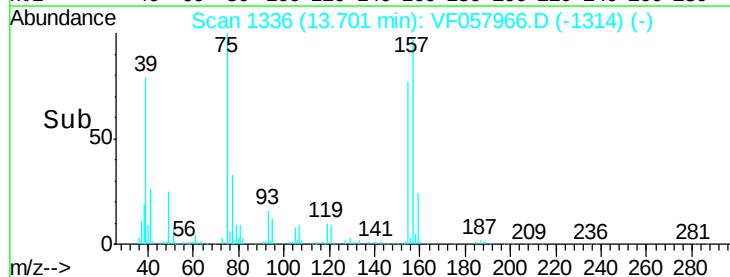
157 96.5 65.0 194.8

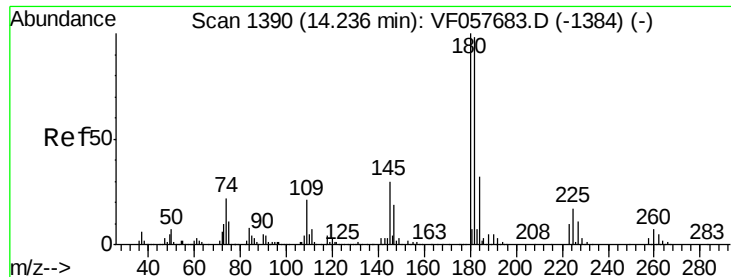


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

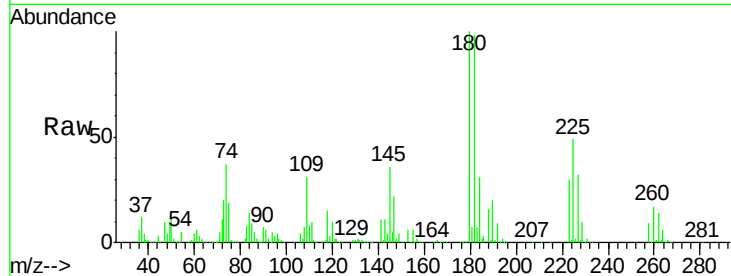




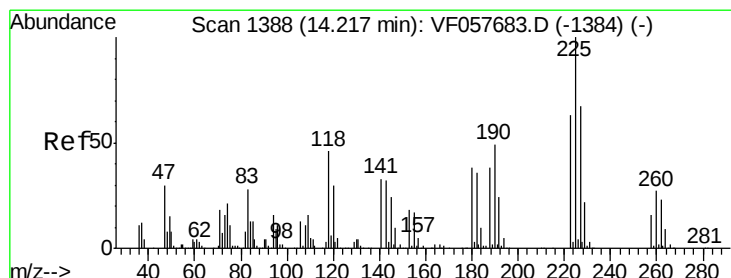
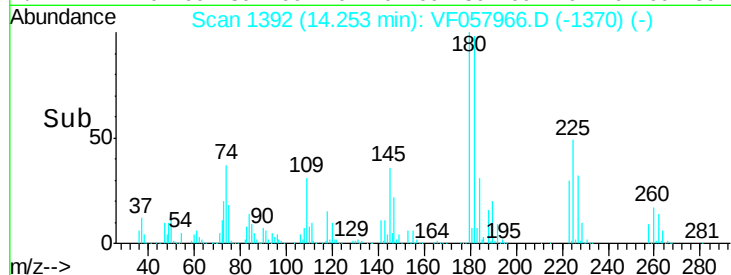
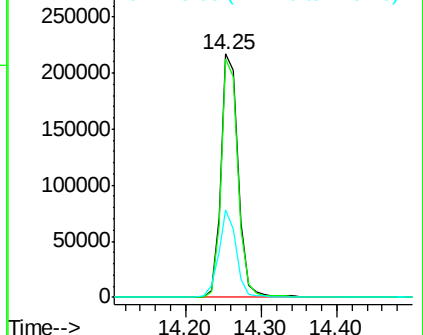
#93
 1,2,4-Trichlorobenzene
 Concen: 50.61 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.02 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Instrument :
 MSVOA_X
 ClientSampleID :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	49.0	147.2
145	35.8	15.2	45.6

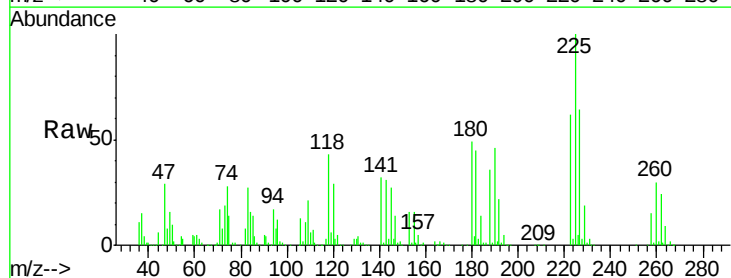


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

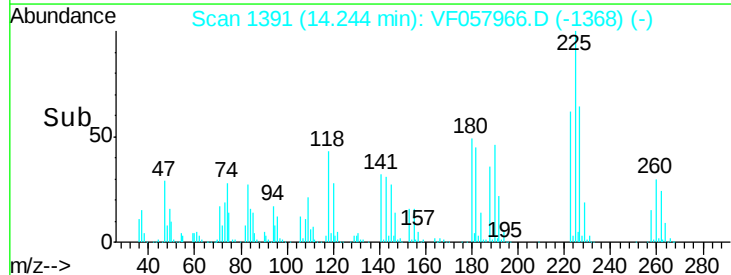
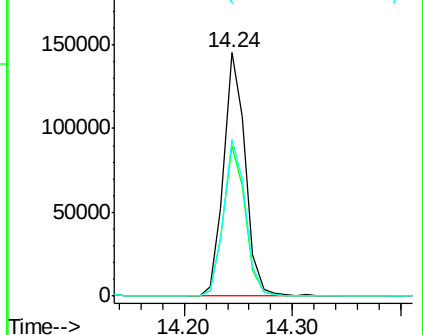


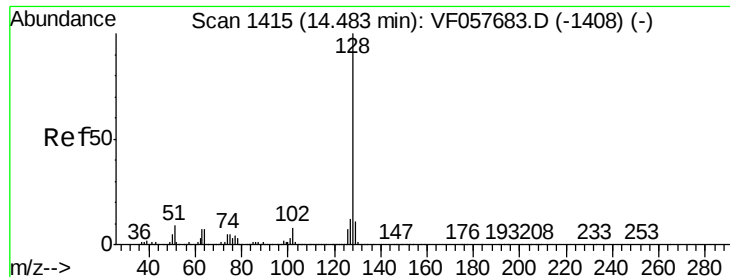
#94
 Hexachlorobutadiene
 Concen: 53.76 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.03 min
 Lab File: VF057966.D
 Acq: 23 May 2018 2:35

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.6	95.0
227	64.4	33.4	100.1



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 55.34 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. 0.03 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

Instrument :

MSVOA_X

ClientSampleId :

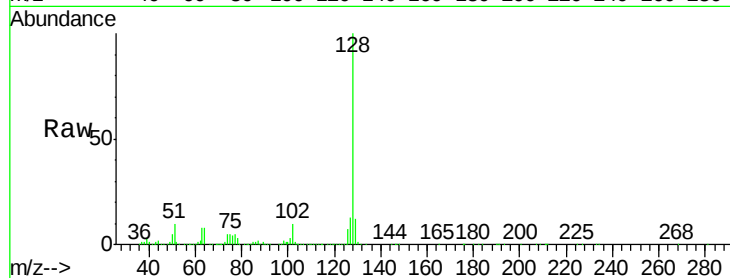
Tot Ion:128 Resp: 813239

Ion Ratio Lower Upper

128 100

127 12.5 9.8 14.8

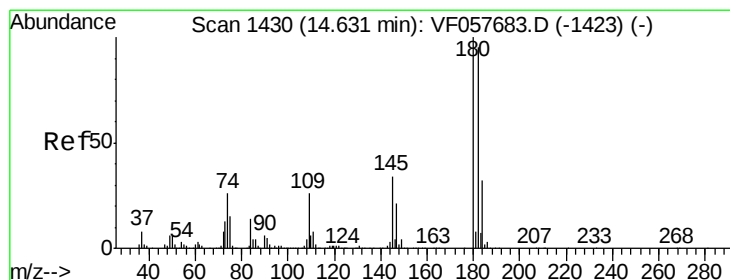
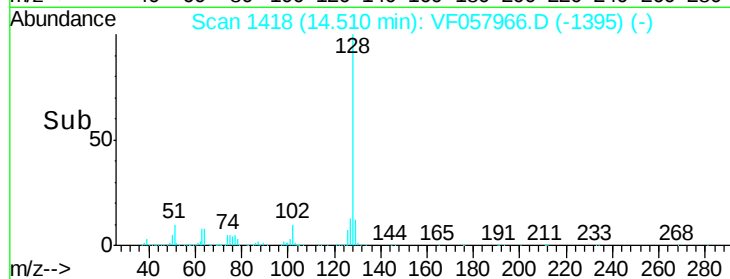
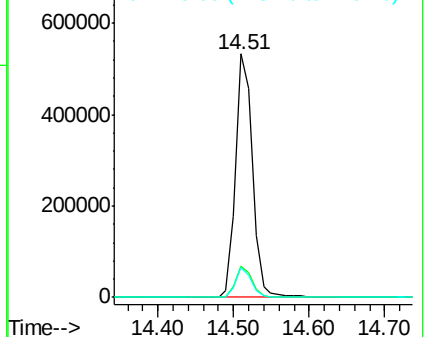
129 12.1 9.2 13.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 54.10 ug/l

RT: 14.66 min Scan# 1433

Delta R.T. 0.03 min

Lab File: VF057966.D

Acq: 23 May 2018 2:35

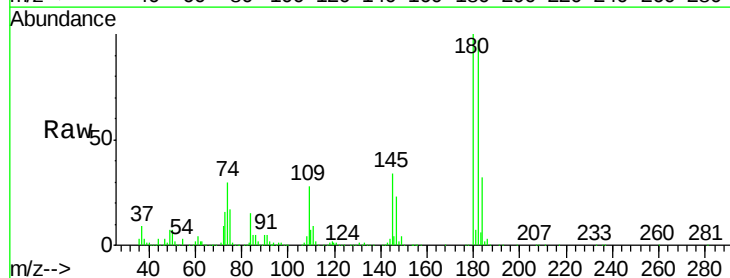
Tgt Ion:180 Resp: 342838

Ion Ratio Lower Upper

180 100

182 96.7 47.4 142.3

145 34.4 16.9 50.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

