

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062118\
 Data File : VF059270.D
 Acq On : 21 Jun 2018 19:32
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 22 07:05:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 22 05:22:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	269688	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	460413	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	397386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	238481	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	184698	47.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.42%	
35) Dibromofluoromethane	4.29	113	161295	41.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.28%	
50) Toluene-d8	7.71	98	428658	43.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.00%	
62) 4-Bromofluorobenzene	11.51	95	221166	40.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.96%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	136625	43.51	ug/l	97
3) Chloromethane	1.08	50	97527	49.31	ug/l	97
4) Vinyl Chloride	1.15	62	95614	48.75	ug/l	96
5) Bromomethane	1.34	94	58015	41.13	ug/l	93
6) Chloroethane	1.43	64	44170	46.17	ug/l	97
7) Trichlorofluoromethane	1.49	101	54565	14.21	ug/l	92
8) Diethyl Ether	1.70	74	41557	48.07	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.90	101	96889	45.21	ug/l	91
10) Methyl Iodide	1.97	142	188300	48.07	ug/l	89
11) Tert butyl alcohol	2.68	59	60314	267.38	ug/l	99
12) 1,1-Dichloroethene	1.85	96	94708	49.55	ug/l	93
13) Acrolein	2.09	56	43215	244.64	ug/l	98
14) Allyl chloride	2.19	41	169665	48.09	ug/l	93
15) Acrylonitrile	3.07	53	148658	366.99	ug/l	92
16) Acetone	2.33	43	214432	234.37	ug/l	99
17) Carbon Disulfide	1.87	76	226206	48.72	ug/l	97
18) Methyl Acetate	2.44	43	87167	50.53	ug/l	96
19) Methyl tert-butyl Ether	2.53	73	320541	49.99	ug/l	93
20) Methylene Chloride	2.32	84	49126	25.64	ug/l	89
21) trans-1,2-Dichloroethene	2.41	96	102674	51.46	ug/l	89
22) Diisopropyl ether	2.92	45	386189	52.76	ug/l	93
23) Vinyl Acetate	3.33	43	1223167	261.25	ug/l	98
24) 1,1-Dichloroethane	2.99	63	227280	47.89	ug/l	99
25) 2-Butanone	4.50	43	300662	246.35	ug/l	100
26) 2,2-Dichloropropane	3.75	77	156913	47.45	ug/l	94
27) cis-1,2-Dichloroethene	3.63	96	150161	49.54	ug/l	98
28) Bromochloromethane	3.88	49	90437	51.37	ug/l	92
29) Tetrahydrofuran	4.24	42	133998	244.53	ug/l	97
30) Chloroform	4.03	83	320931	46.71	ug/l	100
31) Cyclohexane	3.85	56	163954	50.19	ug/l	94
32) 1,1,1-Trichloroethane	4.27	97	222015	42.79	ug/l	97
36) 1,1-Dichloropropene	4.45	75	224007	46.30	ug/l	95
37) Ethyl Acetate	4.29	43	135768	43.91	ug/l #	77
38) Carbon Tetrachloride	4.17	117	274482	46.18	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	202092	46.67	ug/l	91
40) Benzene	4.81	78	448882	43.72	ug/l	95
41) Methacrylonitrile	4.92	41	70401	47.67	ug/l	96
42) 1,2-Dichloroethane	5.11	62	254577	43.05	ug/l	99
43) Isopropyl Acetate	7.10	43	179903	47.49	ug/l	100
44) Trichloroethene	5.68	130	156341	43.94	ug/l	94
45) 1,2-Dichloropropane	6.40	63	134515	44.91	ug/l	94
46) Dibromomethane	6.25	93	112287	44.42	ug/l	96
47) Bromodichloromethane	6.54	83	265780	43.91	ug/l	100
48) Methyl methacrylate	6.87	41	118321	49.33	ug/l	95
49) 1,4-Dioxane	6.86	88	15241	1095.75	ug/l #	89
51) 4-Methyl-2-Pentanone	8.41	43	624634	231.20	ug/l	99
52) Toluene	7.78	92	325210	41.04	ug/l	91
53) t-1,3-Dichloropropene	8.43	75	243427	42.84	ug/l	99
54) cis-1,3-Dichloropropene	7.45	75	269743	44.96	ug/l	99
55) 1,1,2-Trichloroethane	8.63	97	131976	43.15	ug/l	93
56) Ethyl methacrylate	8.76	69	169456	48.46	ug/l	95
57) 1,3-Dichloropropane	9.00	76	235756	46.60	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.78	63	56042	200.39	ug/l	100
59) 2-Hexanone	9.63	43	508592	237.44	ug/l	94
60) Dibromochloromethane	8.86	129	203352	45.18	ug/l	90
61) 1,2-Dibromoethane	9.14	107	163143	46.30	ug/l	97
64) Tetrachloroethene	8.30	164	157321	51.55	ug/l	95
65) Chlorobenzene	9.93	112	415971	49.19	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.07	131	182288	51.75	ug/l	92
67) Ethyl Benzene	10.03	91	735884	51.26	ug/l	99
68) m/p-Xylenes	10.27	106	520436	100.86	ug/l	97
69) o-Xylene	10.83	106	283607	49.76	ug/l	96
70) Styrene	10.90	104	440151	51.23	ug/l	98
71) Bromoform	10.89	173	129160	51.41	ug/l #	98
73) Isopropylbenzene	11.23	105	851748	51.85	ug/l	98
74) N-amyl acetate	11.46	43	313531	58.45	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.79	83	200105	51.91	ug/l	98
76) 1,2,3-Trichloropropane	11.89	75	150309	53.26	ug/l	99
77) Bromobenzene	11.59	156	223581	50.38	ug/l	84
78) n-propylbenzene	11.69	91	959191	49.35	ug/l	100
79) 2-Chlorotoluene	11.82	91	569988	48.91	ug/l	99
80) 1,3,5-Trimethylbenzene	11.92	105	704572	50.73	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	88853	49.16	ug/l	95
82) 4-Chlorotoluene	11.98	91	617168	49.30	ug/l	93
83) tert-Butylbenzene	12.21	119	698975	49.72	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	708168	48.41	ug/l	99
85) sec-Butylbenzene	12.39	105	937683	49.98	ug/l	98
86) p-Isopropyltoluene	12.54	119	801207	51.80	ug/l	99
87) 1,3-Dichlorobenzene	12.56	146	391773	49.23	ug/l	98
88) 1,4-Dichlorobenzene	12.64	146	396658	50.47	ug/l	96
89) n-Butylbenzene	12.92	91	790376	50.18	ug/l	97
90) Hexachloroethane	13.00	117	189546	49.02	ug/l	99
91) 1,2-Dichlorobenzene	13.02	146	389254	49.32	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.72	75	41619	50.00	ug/l	89

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Response via : Initial Calibration

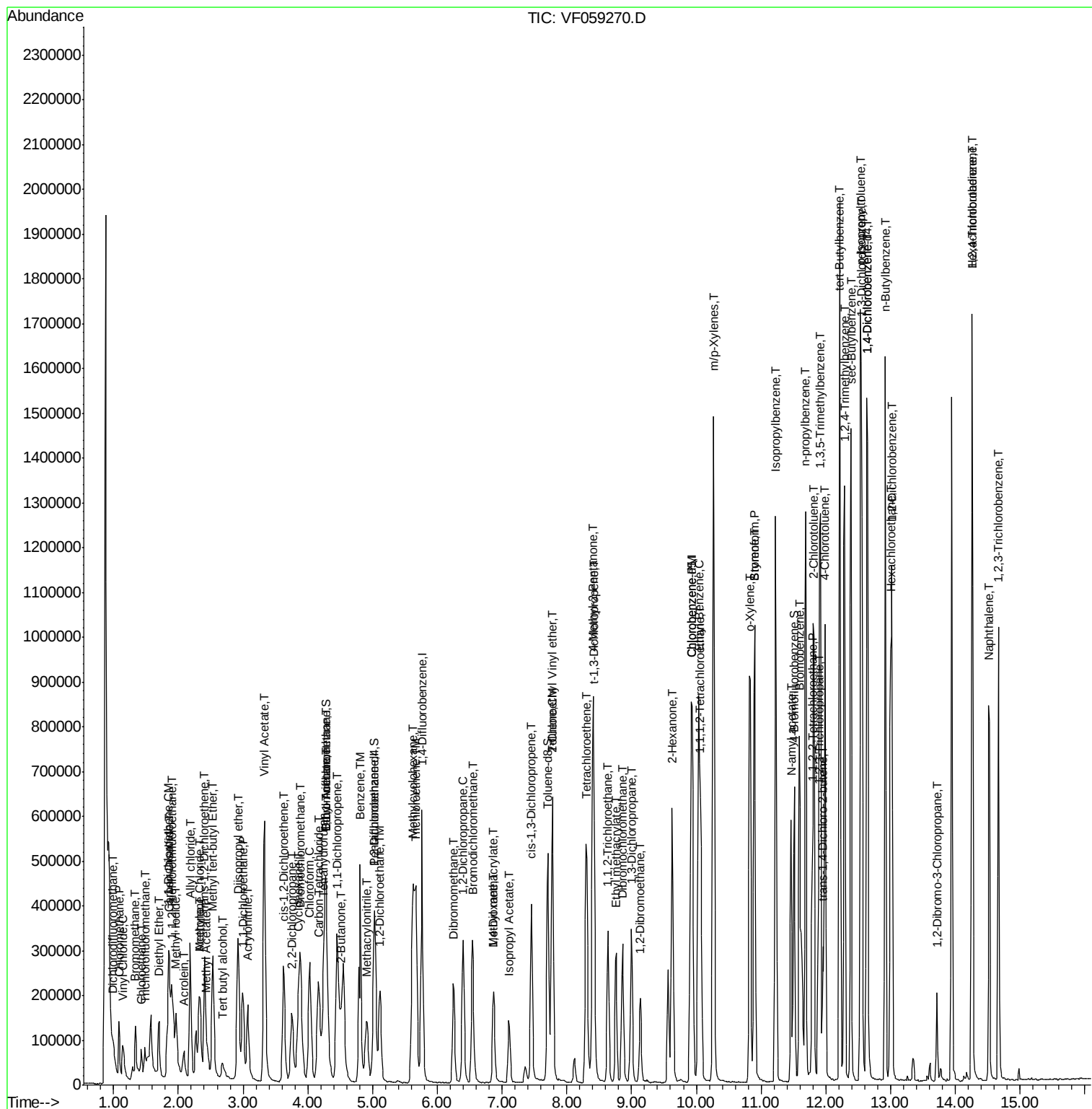
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	289390	50.20	ug/l	99
94) Hexachlorobutadiene	14.26	225	169755	49.68	ug/l	100
95) Naphthalene	14.53	128	645377	54.52	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	286563	52.83	ug/l	99

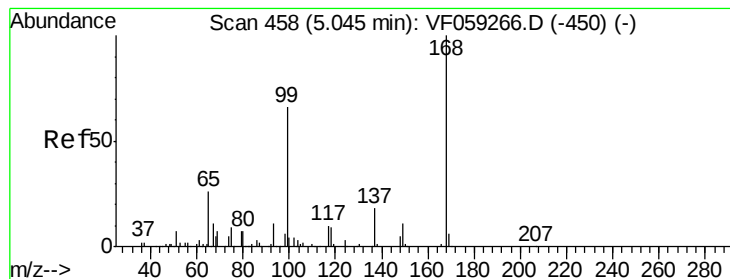
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

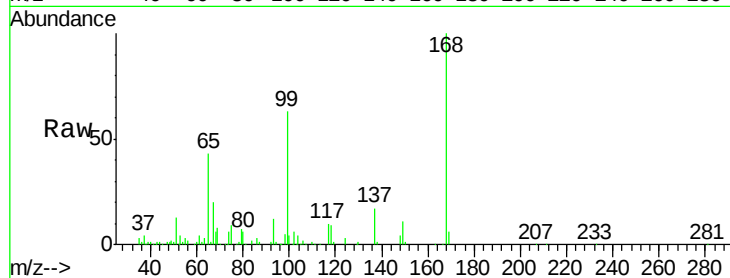
ClientSampleId :

Tot Ion:168 Resp: 269688

Ion Ratio Lower Upper

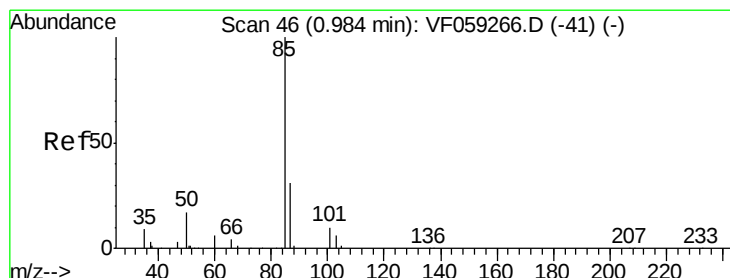
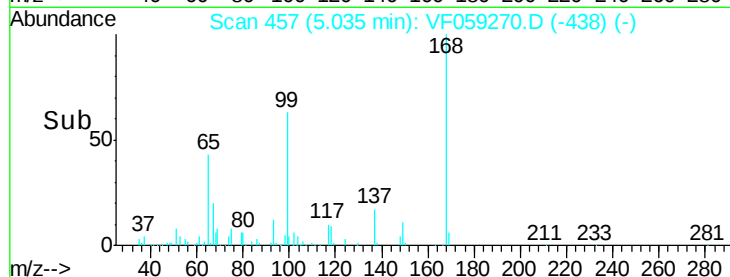
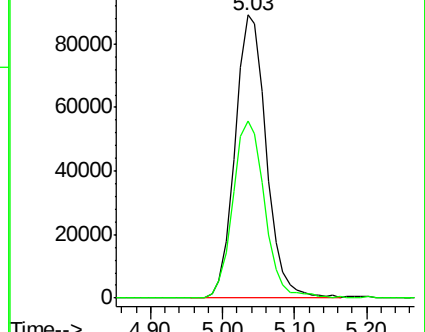
168 100

99 62.5 52.6 78.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 43.51 ug/l

RT: 0.99 min Scan# 47

Delta R.T. 0.01 min

Lab File: VF059270.D

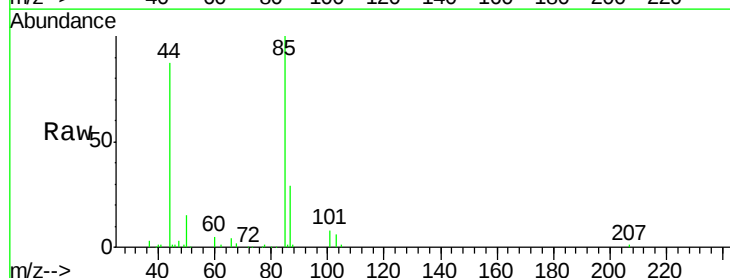
Acq: 21 Jun 2018 19:32

Tgt Ion: 85 Resp: 136625

Ion Ratio Lower Upper

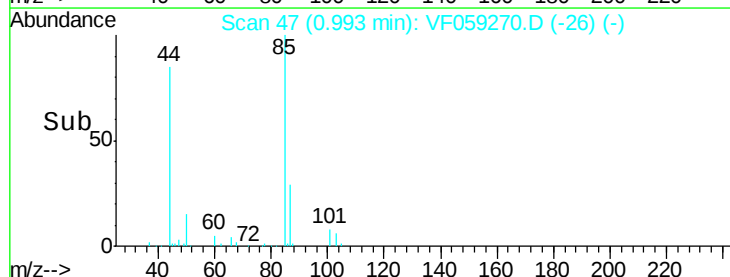
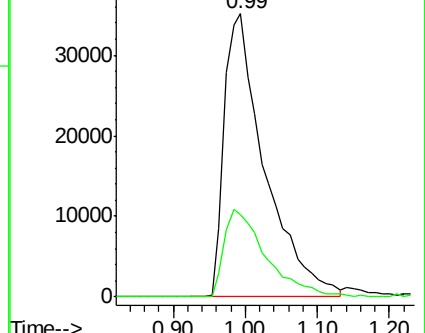
85 100

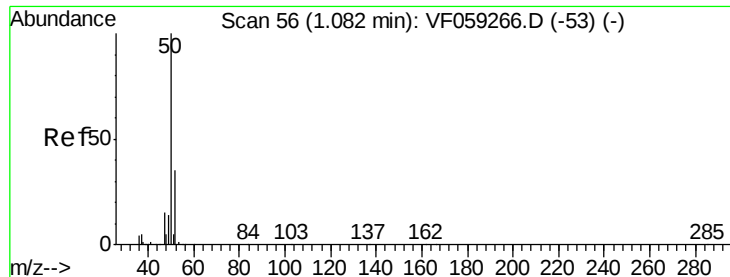
87 29.3 15.6 46.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 49.31 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

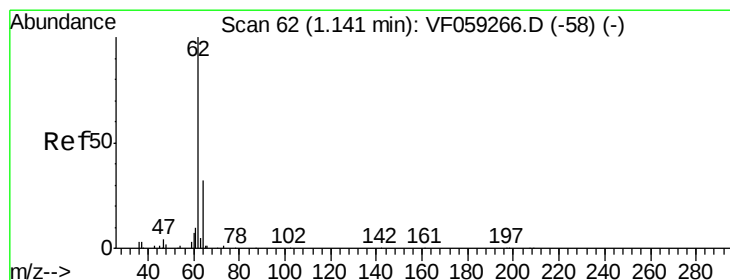
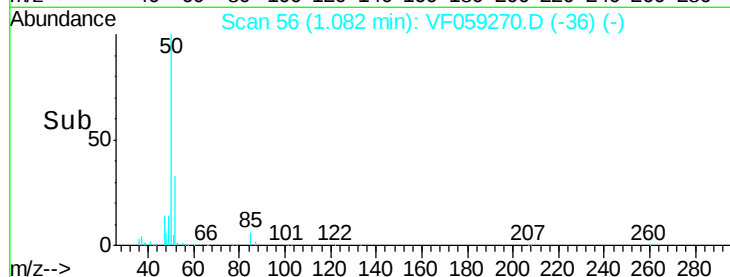
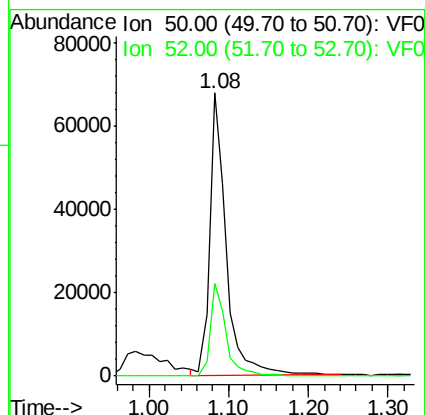
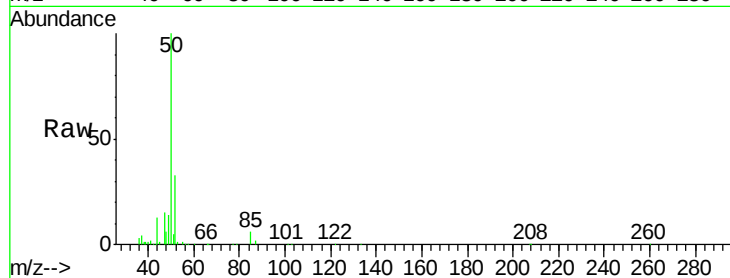
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 97527

Ion Ratio Lower Upper

50 100

52 32.9 27.7 41.5



#4

Vinyl Chloride

Concen: 48.75 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF059270.D

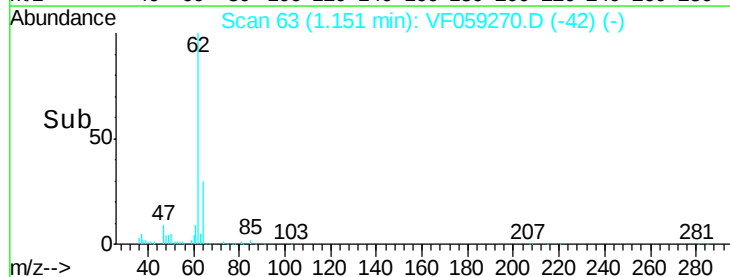
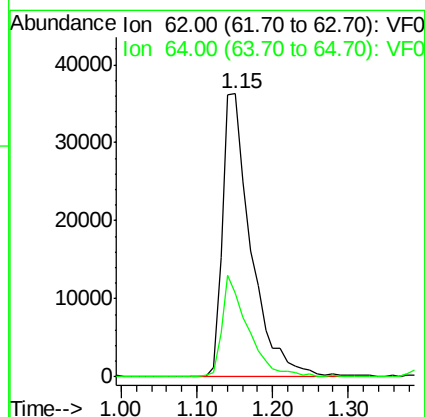
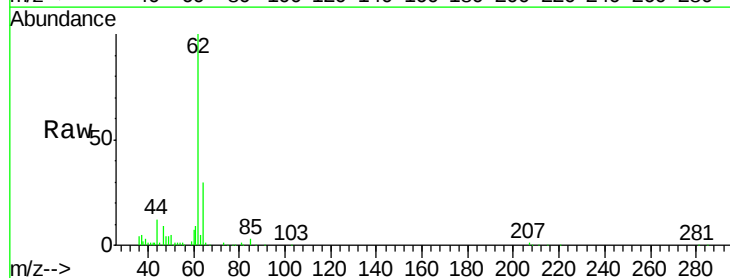
Acq: 21 Jun 2018 19:32

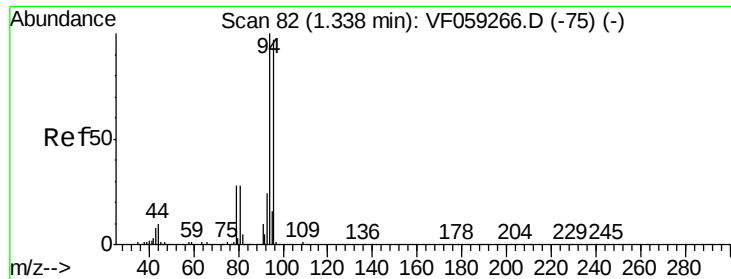
Tgt Ion: 62 Resp: 95614

Ion Ratio Lower Upper

62 100

64 29.7 25.7 38.5





#5

Bromomethane

Concen: 41.13 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

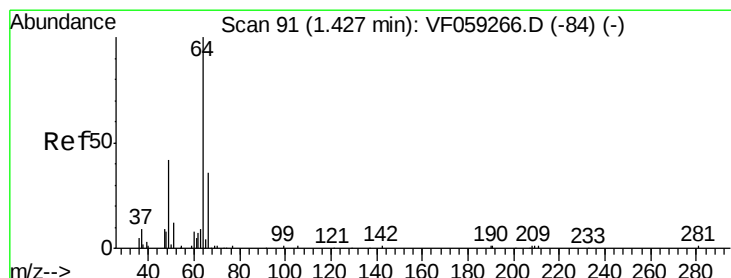
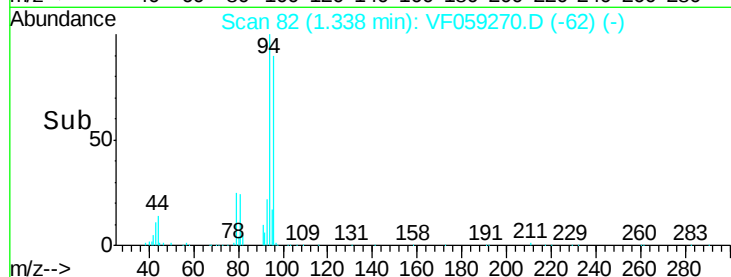
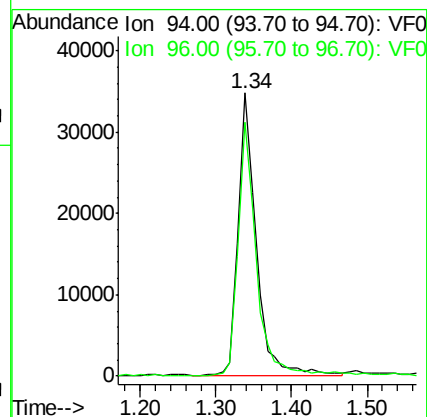
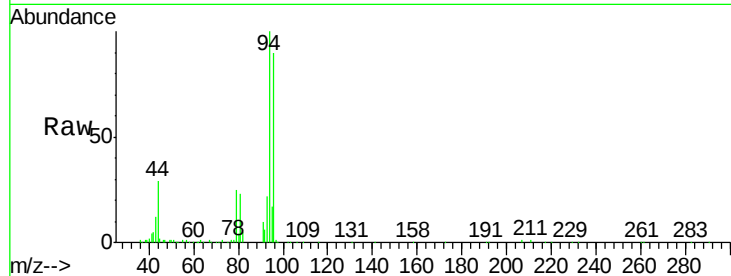
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 58015

Ion Ratio Lower Upper

94 100

96 89.7 77.7 116.5



#6

Chloroethane

Concen: 46.17 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.00 min

Lab File: VF059270.D

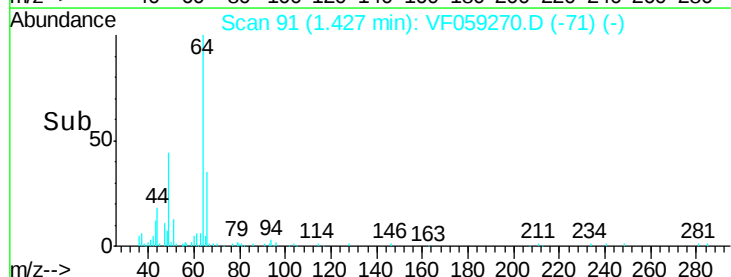
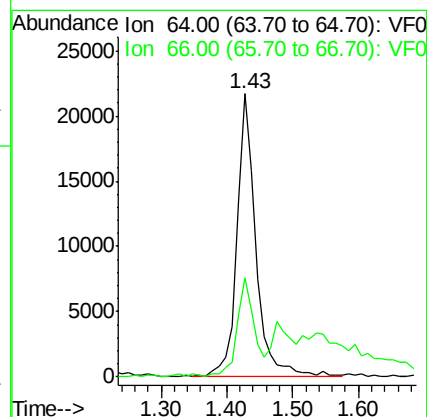
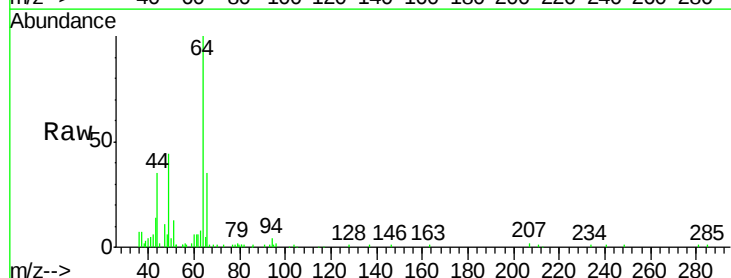
Acq: 21 Jun 2018 19:32

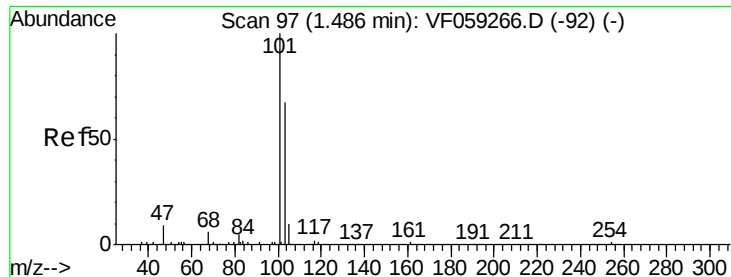
Tgt Ion: 64 Resp: 44170

Ion Ratio Lower Upper

64 100

66 35.1 29.4 44.2





#7

Trichlorofluoromethane

Concen: 14.21 ug/l

RT: 1.49 min Scan# 97

Delta R.T. -0.00 min

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Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

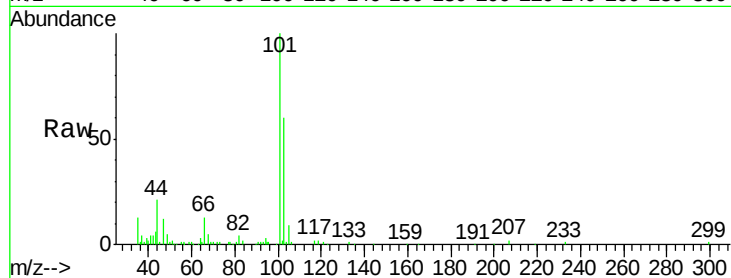
ClientSampleId :

Tot Ion:101 Resp: 54565

Ion Ratio Lower Upper

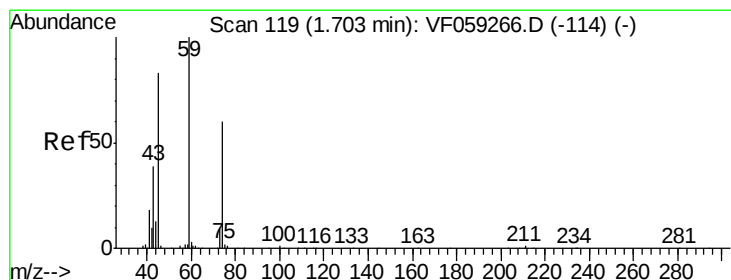
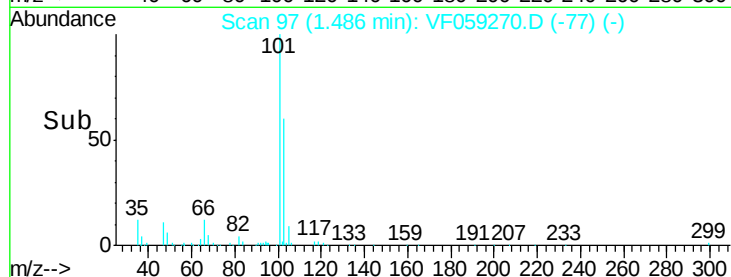
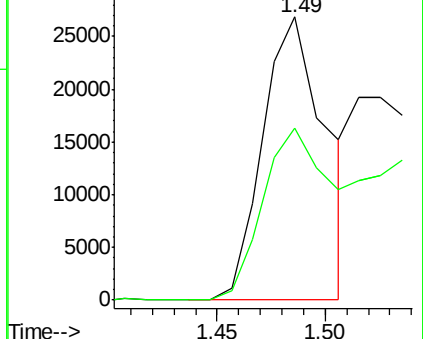
101 100

103 60.9 53.8 80.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 48.07 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF059270.D

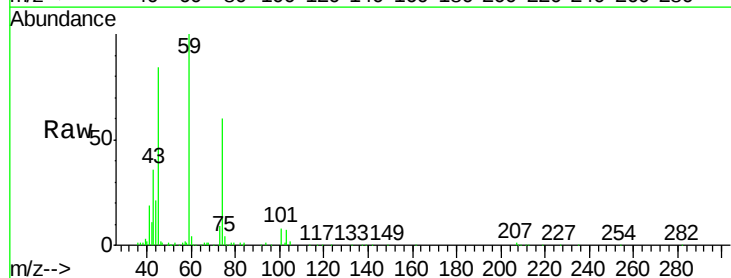
Acq: 21 Jun 2018 19:32

Tgt Ion: 74 Resp: 41557

Ion Ratio Lower Upper

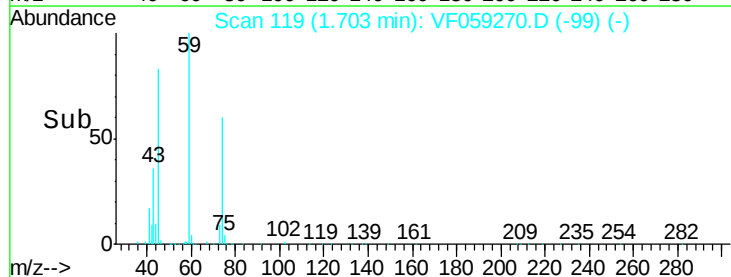
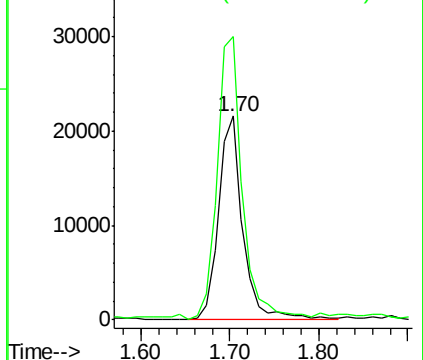
74 100

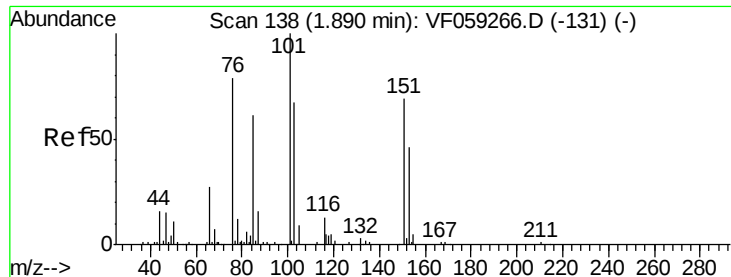
45 138.9 69.2 207.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.21 ug/l

RT: 1.90 min Scan# 139

Delta R.T. 0.01 min

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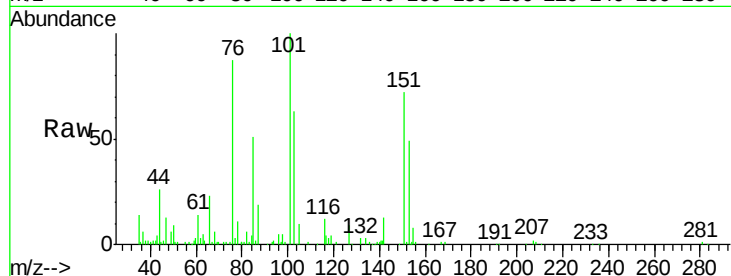
Tot Ion:101 Resp: 96889

Ion Ratio Lower Upper

101 100

85 51.1 47.2 70.8

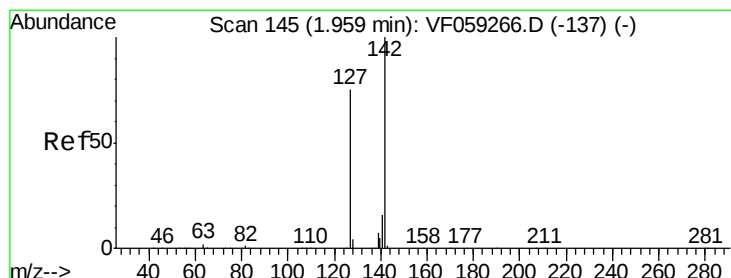
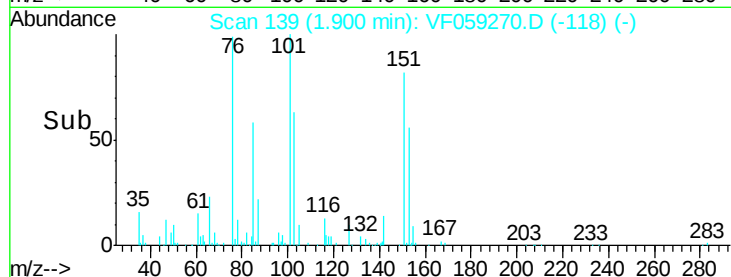
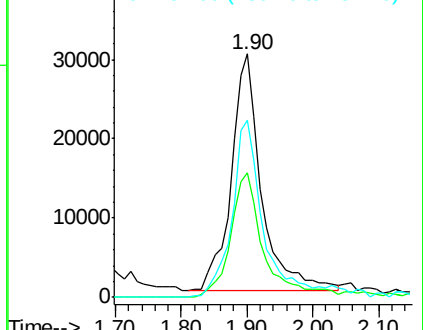
151 72.9 53.3 79.9



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: 48.07 ug/l

RT: 1.97 min Scan# 146

Delta R.T. 0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

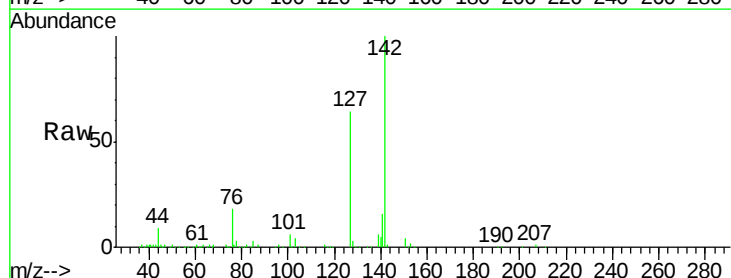
Tgt Ion:142 Resp: 188300

Ion Ratio Lower Upper

142 100

127 63.6 59.9 89.9

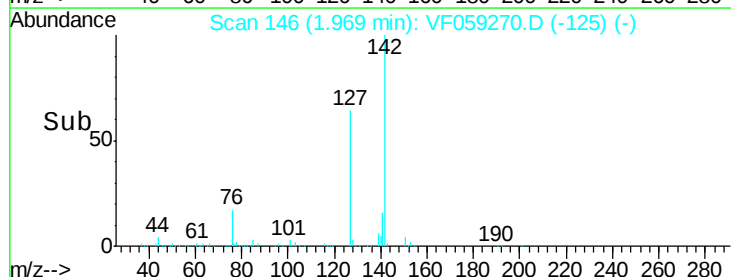
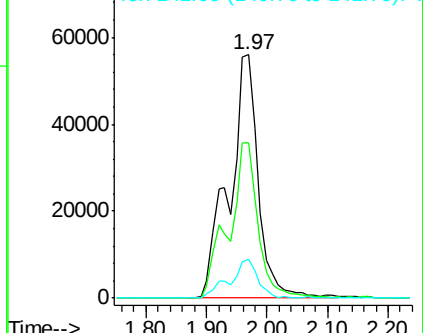
141 15.7 12.7 19.1

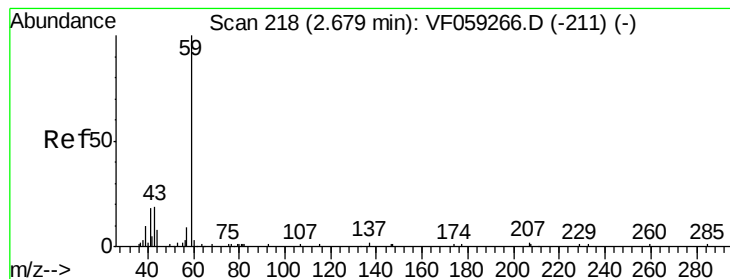


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



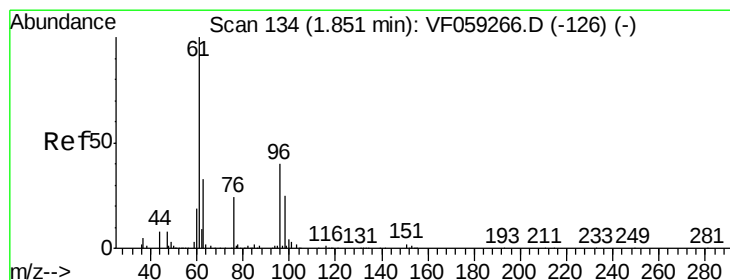
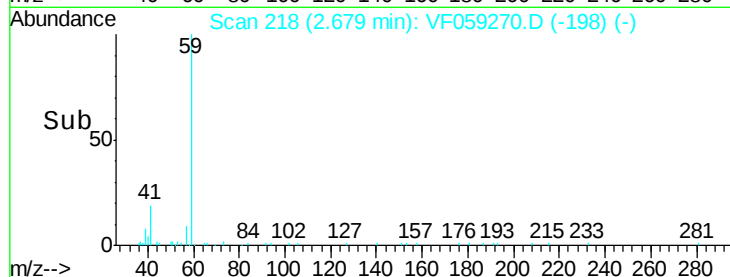
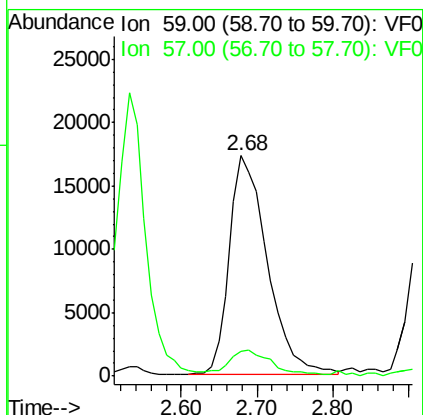
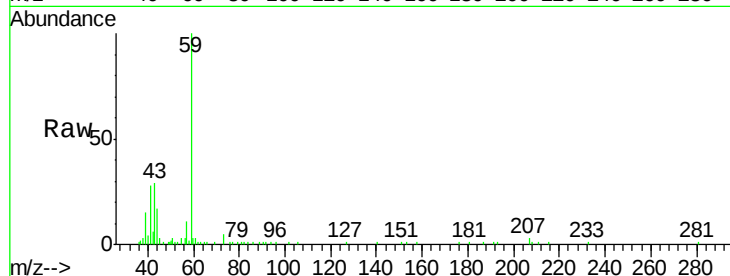


#11

Tert butyl alcohol
Concen: 267.38 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Instrument :
MSVOA_F
ClientSampled :

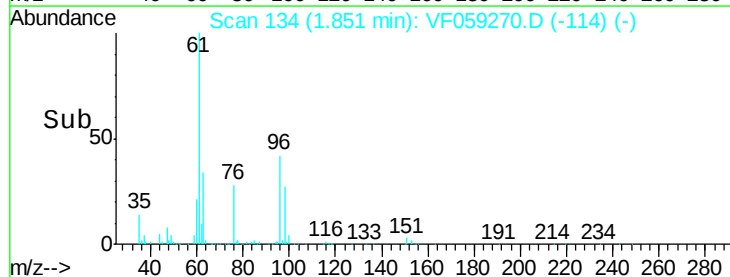
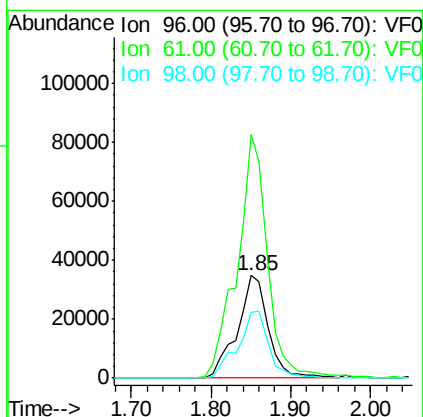
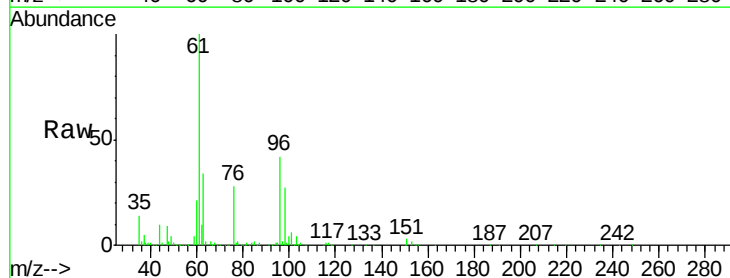
Tot Ion: 59 Resp: 60314
Ion Ratio Lower Upper
59 100
57 11.0 9.2 13.8

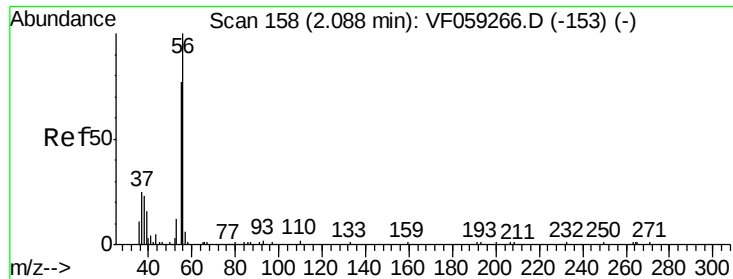


#12

1,1-Dichloroethene
Concen: 49.55 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion: 96 Resp: 94708
Ion Ratio Lower Upper
96 100
61 237.1 201.4 302.2
98 64.2 50.0 75.0





#13

Acrolein

Concen: 244.64 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

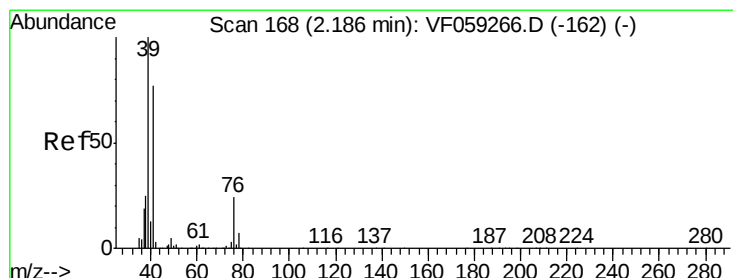
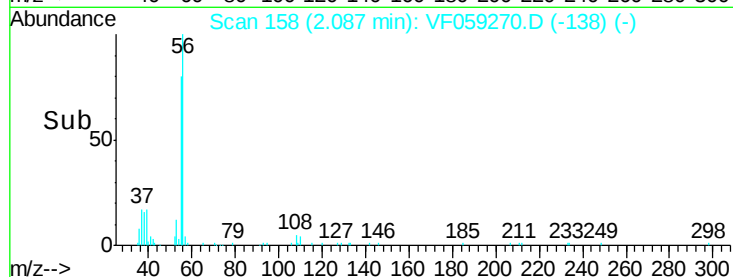
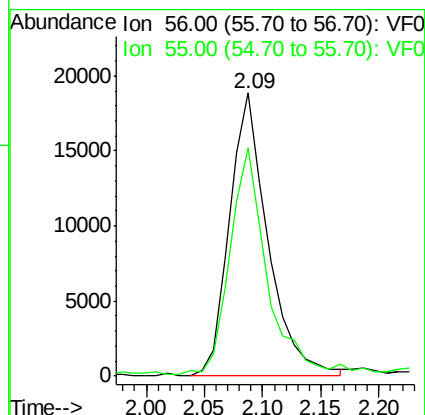
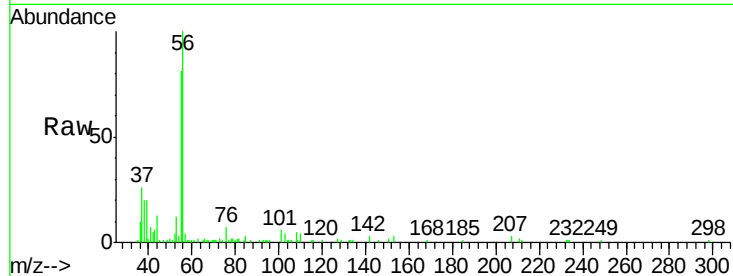
ClientSampleId :

Tot Ion: 56 Resp: 43215

Ion Ratio Lower Upper

56 100

55 80.7 63.0 94.6



#14

Allyl chloride

Concen: 48.09 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

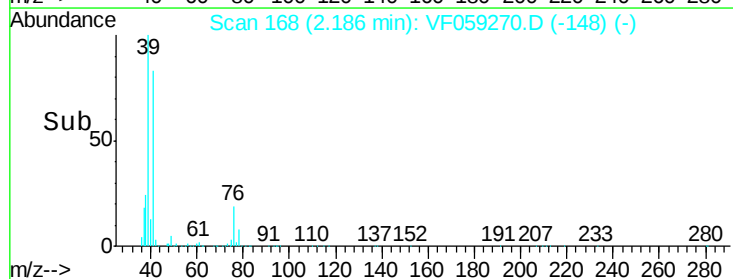
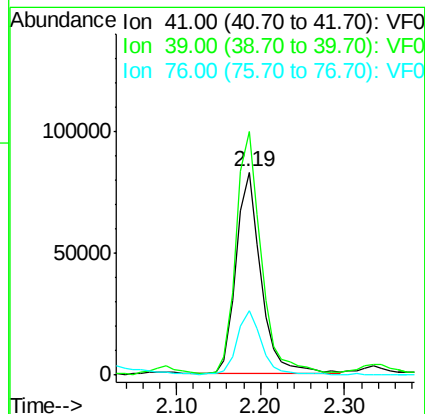
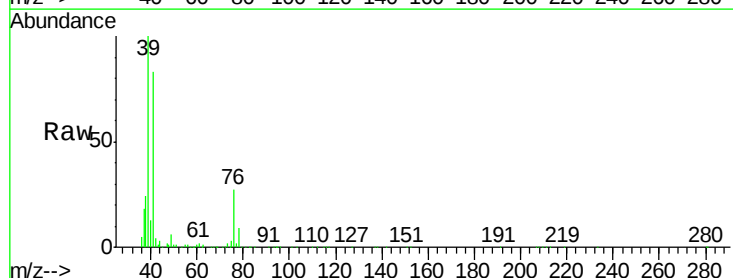
Tgt Ion: 41 Resp: 169665

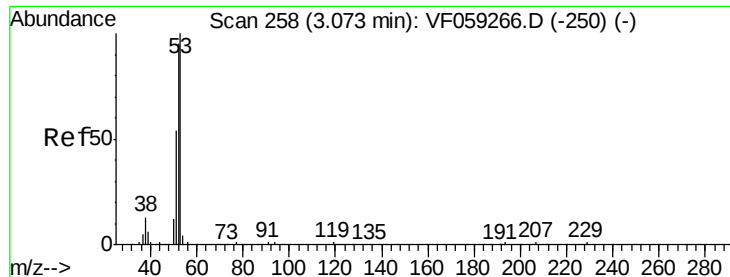
Ion Ratio Lower Upper

41 100

39 120.0 103.8 155.6

76 32.0 25.0 37.6





#15

Acrylonitrile

Concen: 366.99 ug/l

RT: 3.07 min Scan# 258

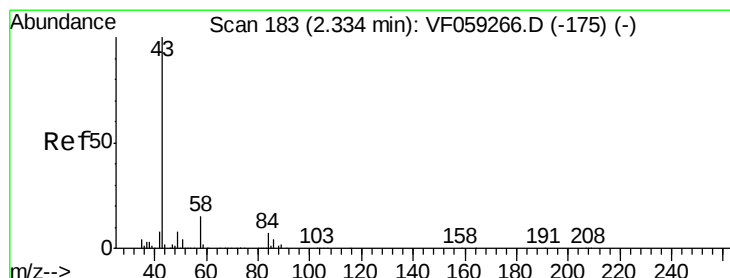
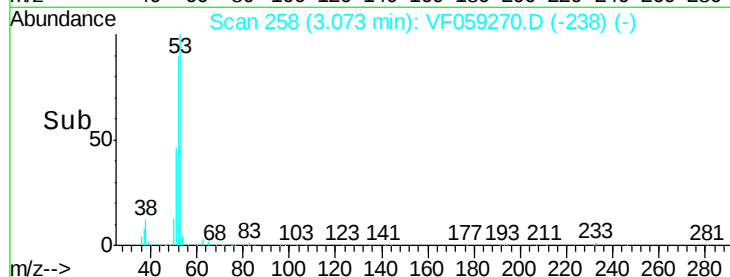
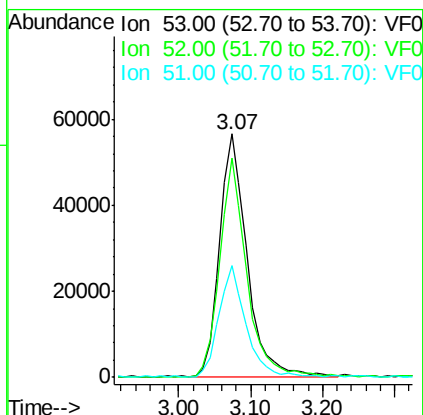
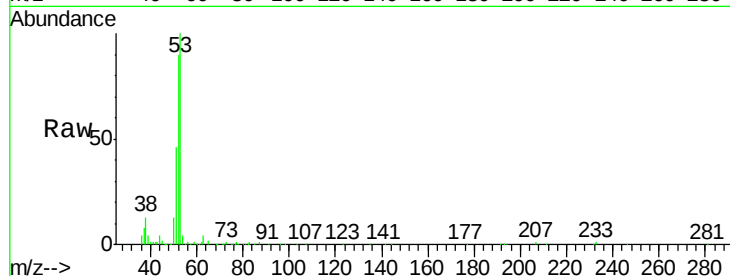
Delta R.T. 0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	148658
Ion	Ratio	Lower	Upper
53	100		
52	89.9	75.7	113.5
51	46.1	44.5	66.7



#16

Acetone

Concen: 234.37 ug/l

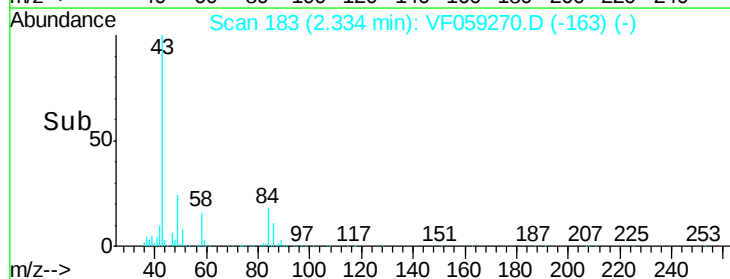
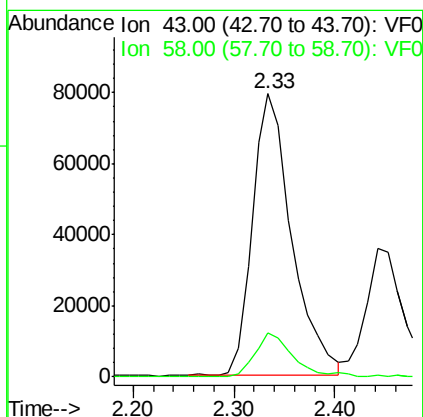
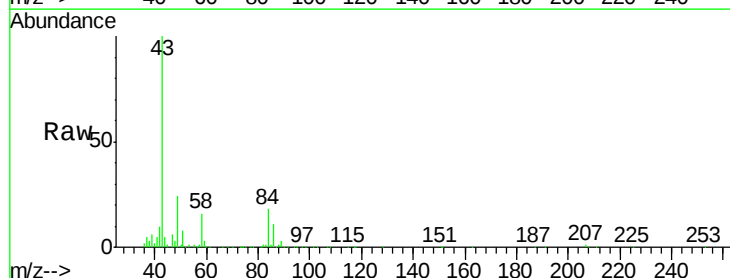
RT: 2.33 min Scan# 183

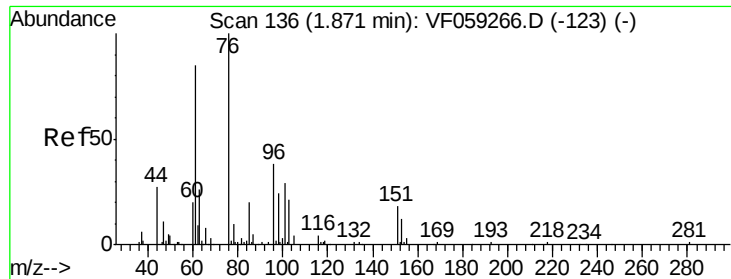
Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Tgt Ion:	43	Resp:	214432
Ion	Ratio	Lower	Upper
43	100		
58	15.5	12.1	18.1

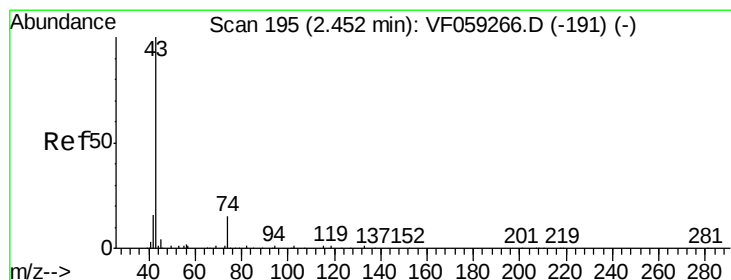
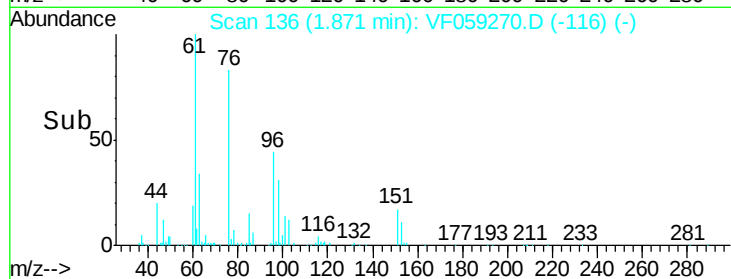
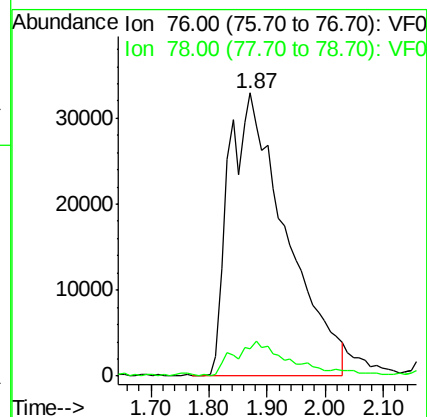
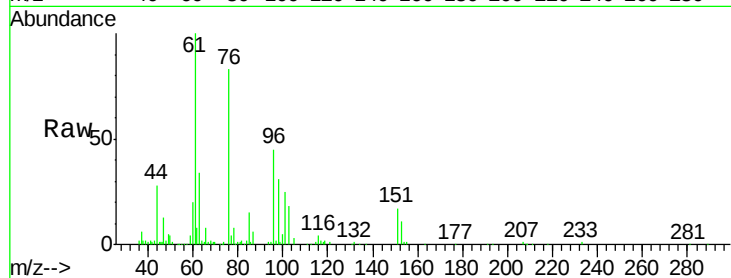




#17
Carbon Disulfide
Concen: 48.72 ug/l
RT: 1.87 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

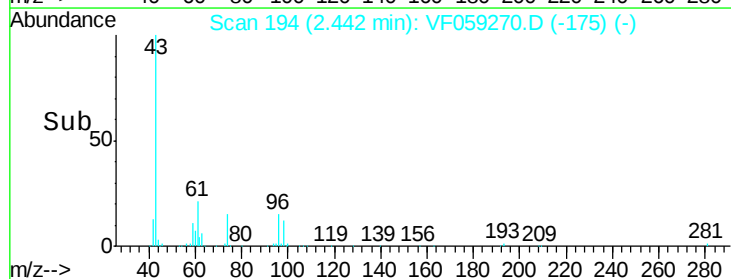
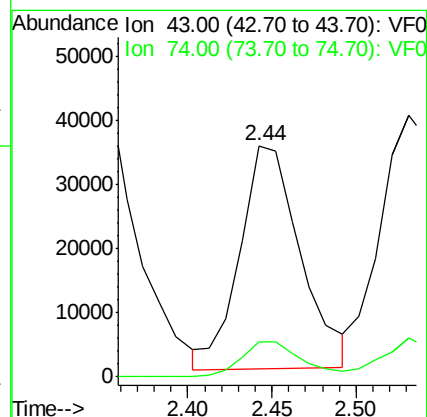
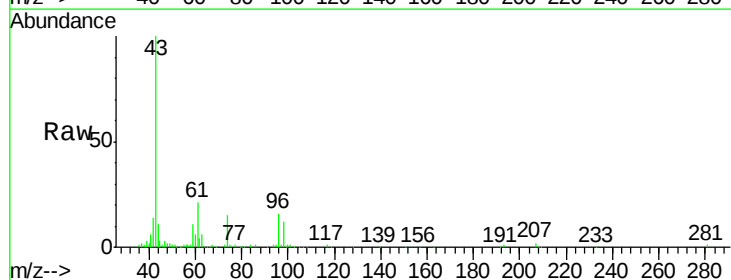
Instrument :
MSVOA_F
ClientSampleId :

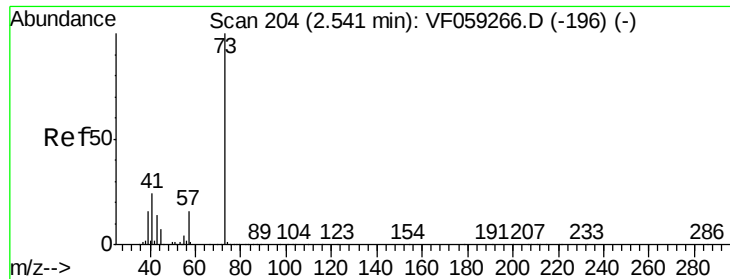
Tot Ion: 76 Resp: 226206
Ion Ratio Lower Upper
76 100
78 9.5 8.6 12.8



#18
Methyl Acetate
Concen: 50.53 ug/l
RT: 2.44 min Scan# 194
Delta R.T. -0.01 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion: 43 Resp: 87167
Ion Ratio Lower Upper
43 100
74 15.2 11.0 16.4



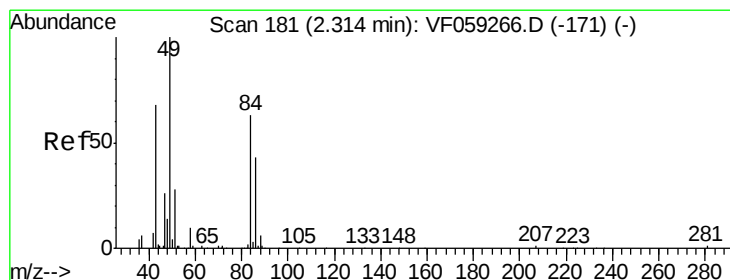
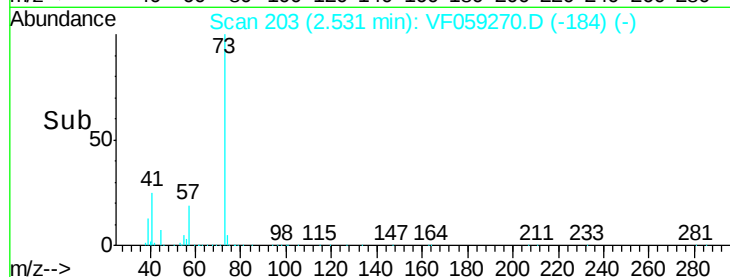
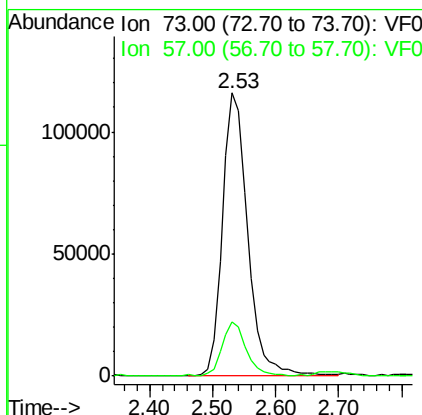
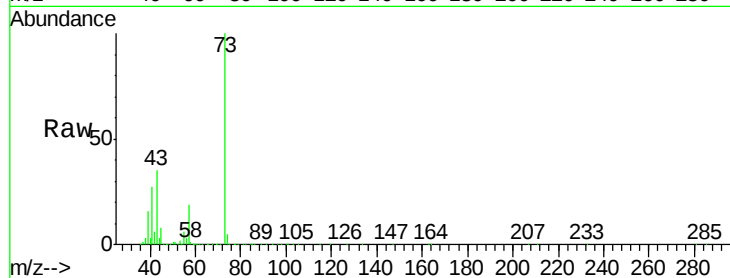


#19

Methyl tert-butyl Ether
Concen: 49.99 ug/l
RT: 2.53 min Scan# 203
Delta R.T. -0.01 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Instrument :
MSVOA_F
ClientSampleId :

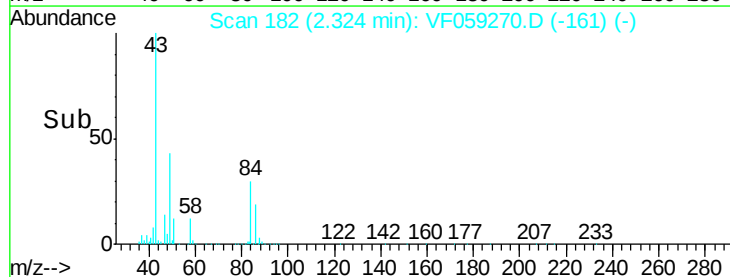
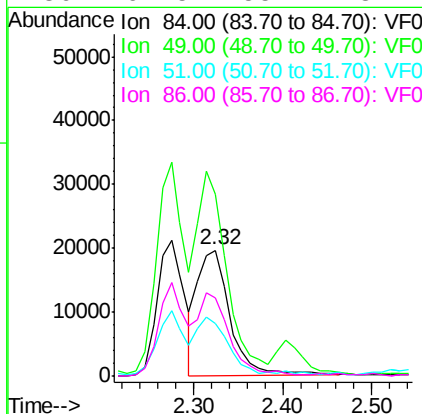
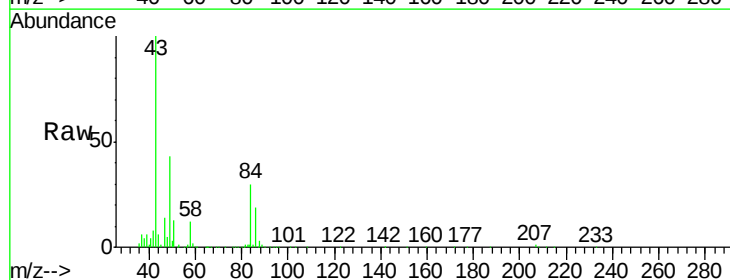
Tot Ion: 73 Resp: 320541
Ion Ratio Lower Upper
73 100
57 19.3 13.0 19.4

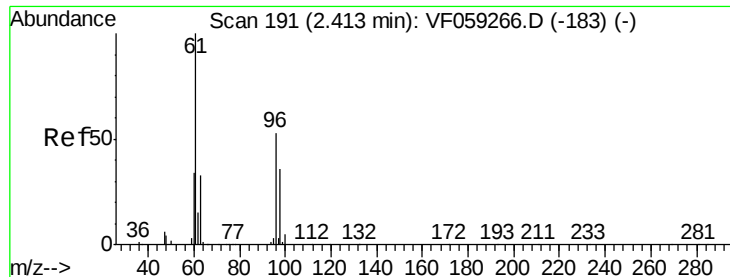


#20

Methylene Chloride
Concen: 25.64 ug/l
RT: 2.32 min Scan# 182
Delta R.T. 0.01 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion: 84 Resp: 49126
Ion Ratio Lower Upper
84 100
49 144.2 130.0 195.0
51 42.0 36.6 55.0
86 62.5 55.1 82.7





#21

trans-1,2-Dichloroethene

Concen: 51.46 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

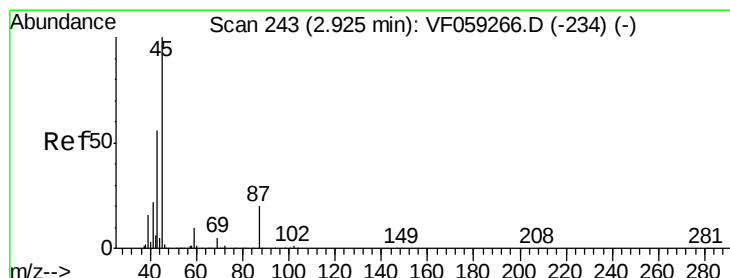
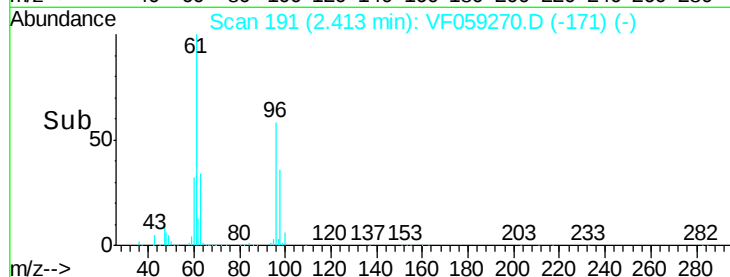
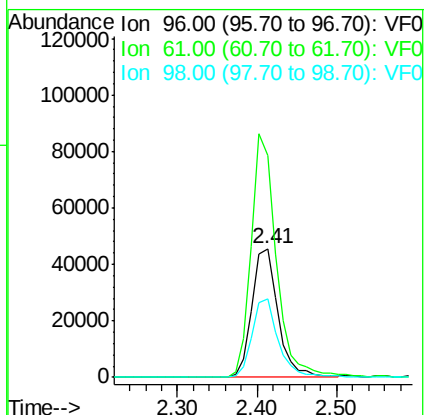
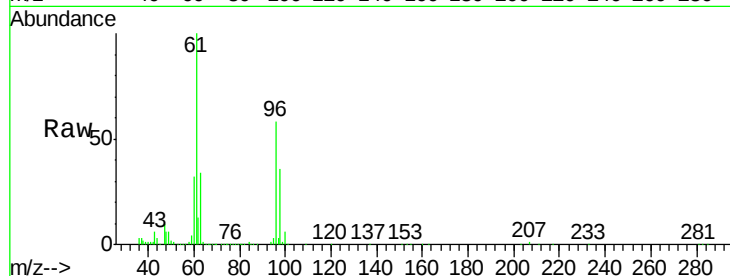
Tot Ion: 96 Resp: 102674

Ion Ratio Lower Upper

96 100

61 172.0 151.2 226.8

98 61.4 54.2 81.2



#22

Diisopropyl ether

Concen: 52.76 ug/l

RT: 2.92 min Scan# 242

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Tgt Ion: 45 Resp: 386189

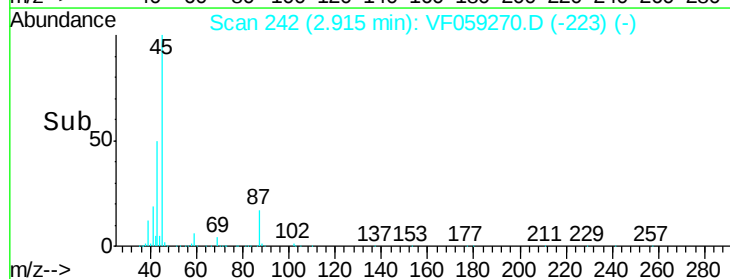
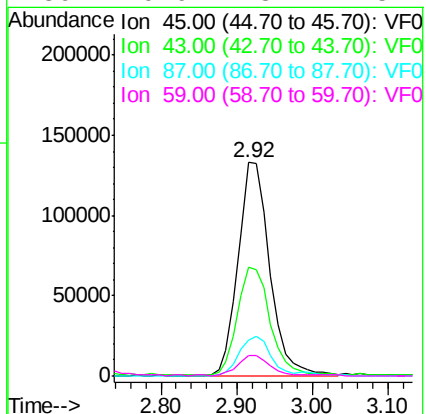
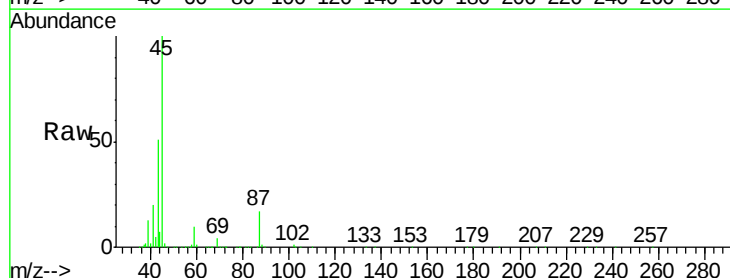
Ion Ratio Lower Upper

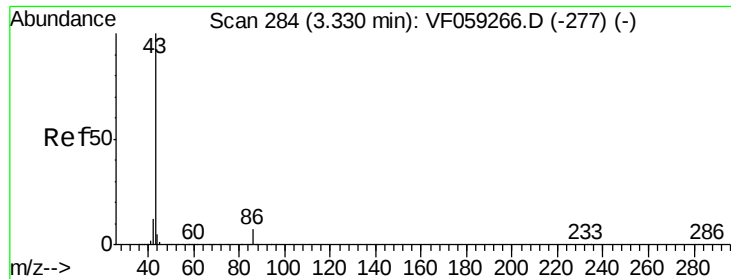
45 100

43 51.0 45.8 68.6

87 17.0 15.7 23.5

59 9.9 8.7 13.1





#23

Vinyl Acetate

Concen: 261.25 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

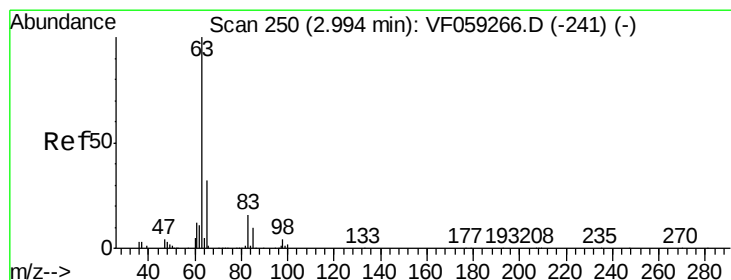
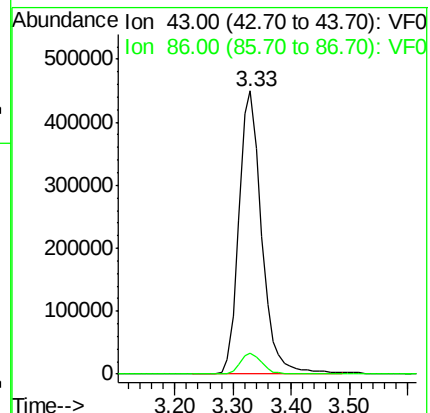
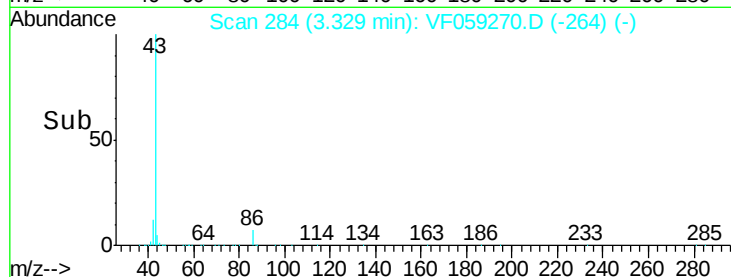
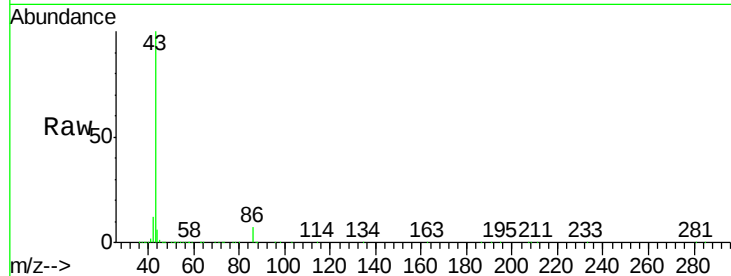
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1223167

Ion Ratio Lower Upper

43 100

86 7.4 5.4 8.2



#24

1,1-Dichloroethane

Concen: 47.89 ug/l

RT: 2.99 min Scan# 250

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

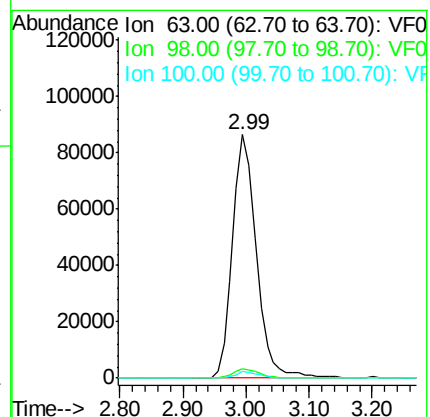
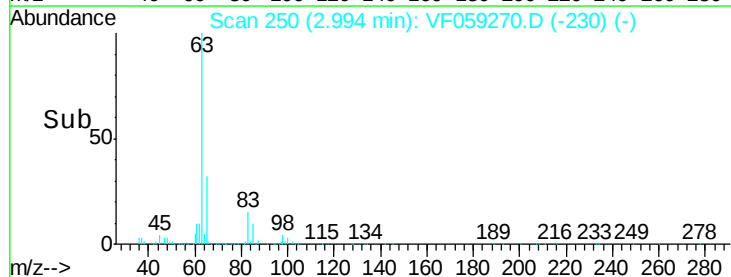
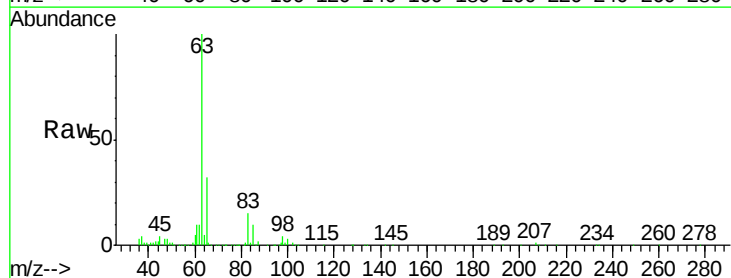
Tgt Ion: 63 Resp: 227280

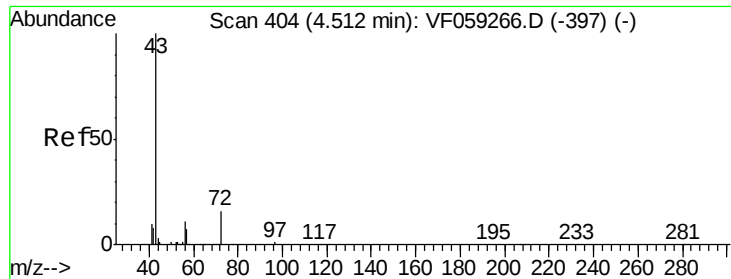
Ion Ratio Lower Upper

63 100

98 4.0 2.0 5.8

100 3.0 1.1 3.1





#25

2-Butanone

Concen: 246.35 ug/l

RT: 4.50 min Scan# 403

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

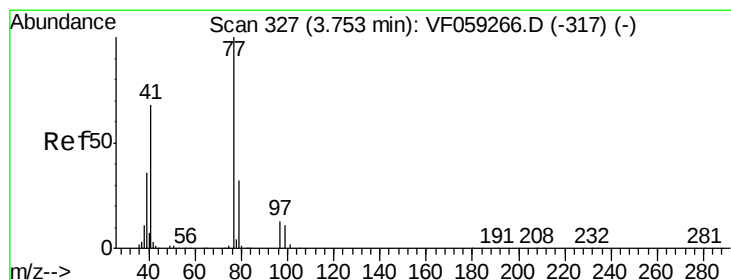
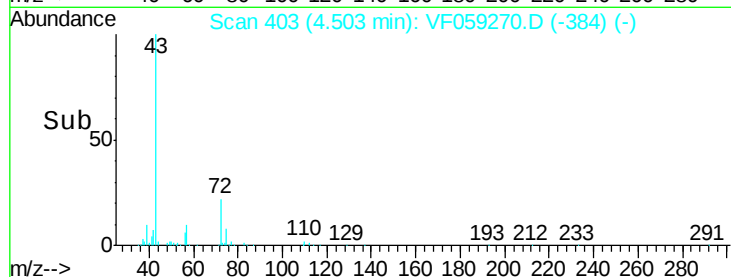
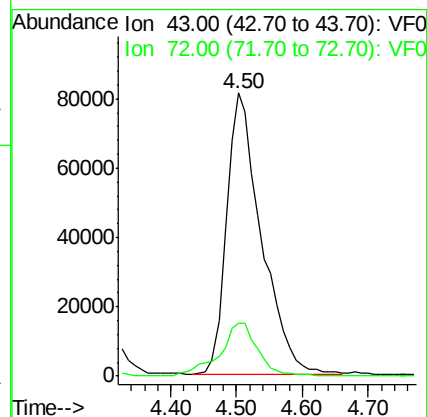
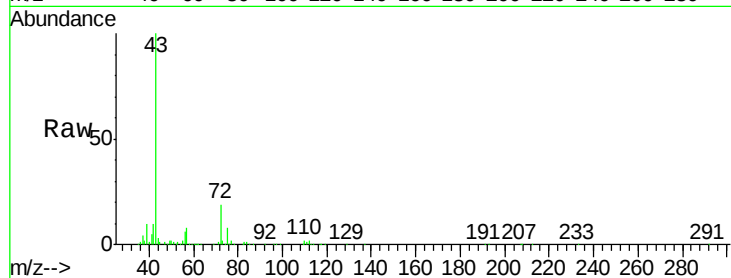
ClientSampleId :

Tot Ion: 43 Resp: 300662

Ion Ratio Lower Upper

43 100

72 18.8 15.2 22.8



#26

2,2-Dichloropropane

Concen: 47.45 ug/l

RT: 3.75 min Scan# 327

Delta R.T. -0.00 min

Lab File: VF059270.D

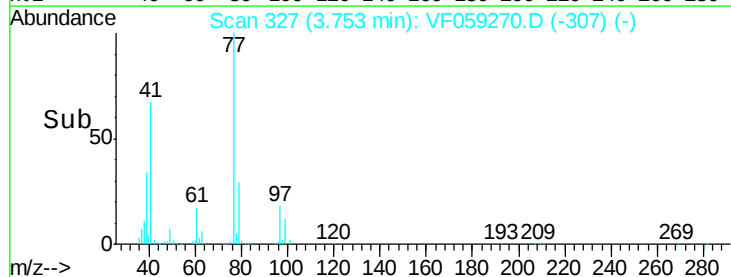
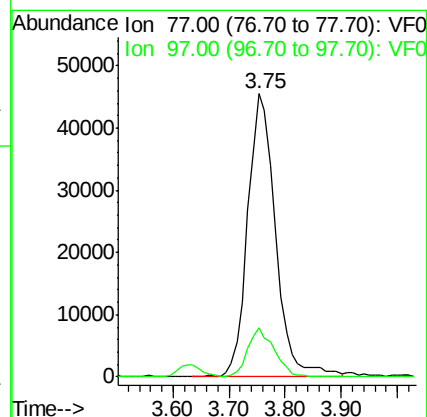
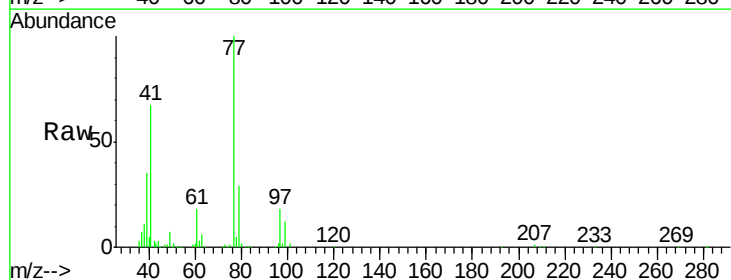
Acq: 21 Jun 2018 19:32

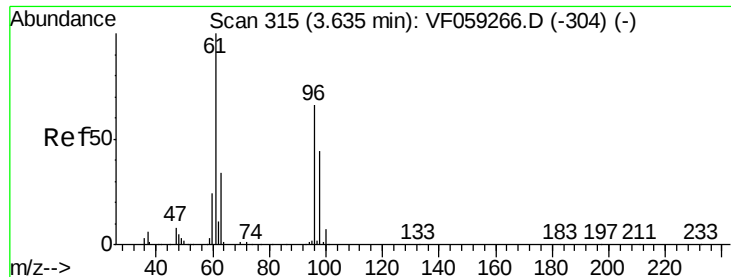
Tgt Ion: 77 Resp: 156913

Ion Ratio Lower Upper

77 100

97 17.5 7.6 22.8



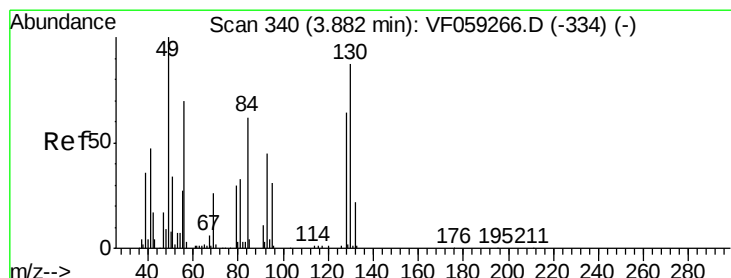
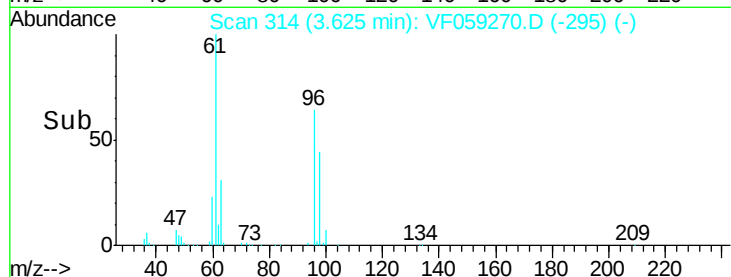
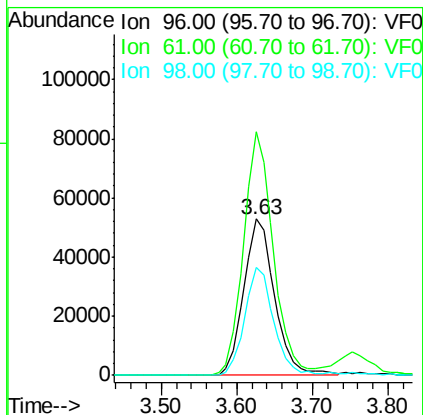
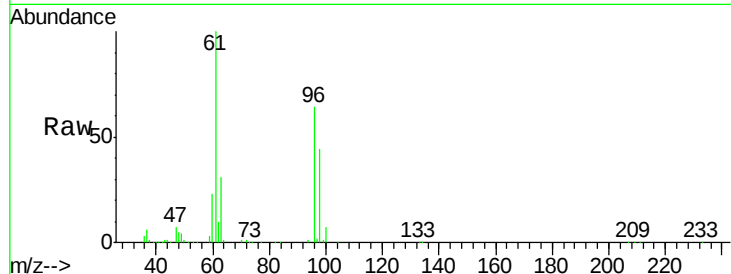


#27

cis-1,2-Dichloroethene
 Concen: 49.54 ug/l
 RT: 3.63 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VF059270.D
 Acq: 21 Jun 2018 19:32

Instrument :
 MSVOA_F
 ClientSampleId :

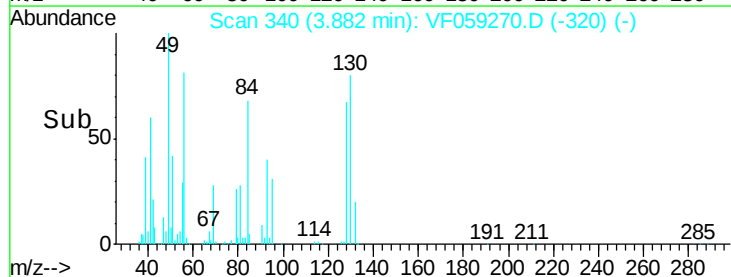
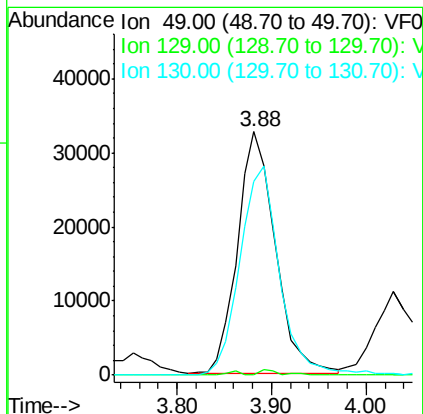
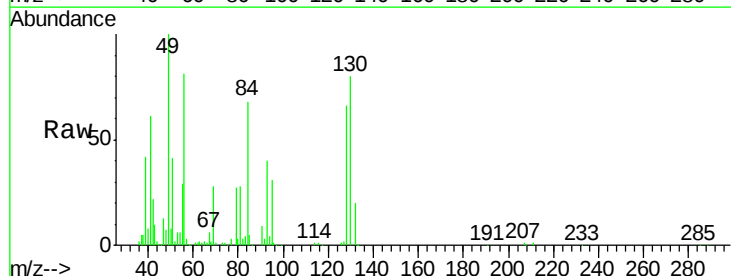
Tot Ion	96	Resp	150161
Ion	Ratio	Lower	Upper
96	100		
61	155.7	0.0	305.0
98	68.9	0.0	134.0

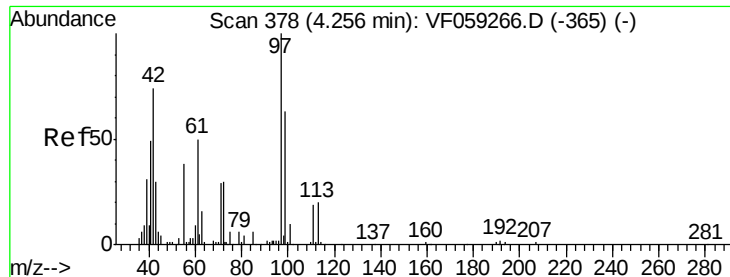


#28

Bromochloromethane
 Concen: 51.37 ug/l
 RT: 3.88 min Scan# 340
 Delta R.T. 0.00 min
 Lab File: VF059270.D
 Acq: 21 Jun 2018 19:32

Tgt Ion	49	Resp	90437
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	79.8	69.4	104.2





#29

Tetrahydrofuran

Concen: 244.53 ug/l

RT: 4.24 min Scan# 376

Delta R.T. -0.02 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

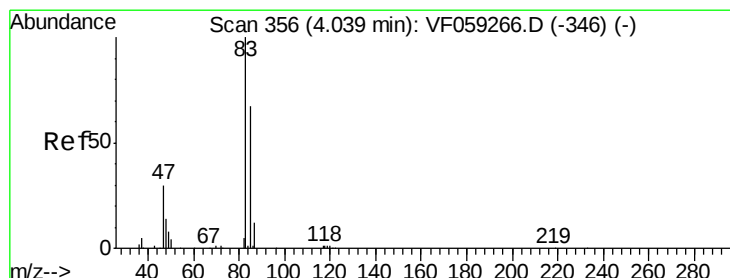
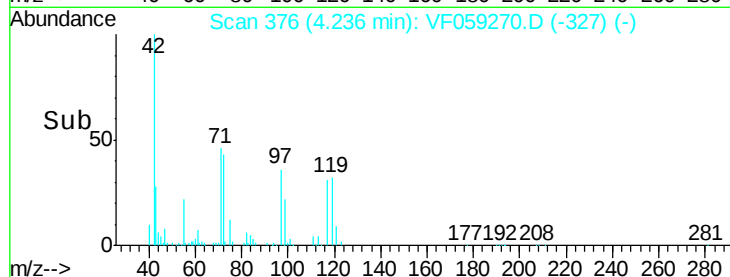
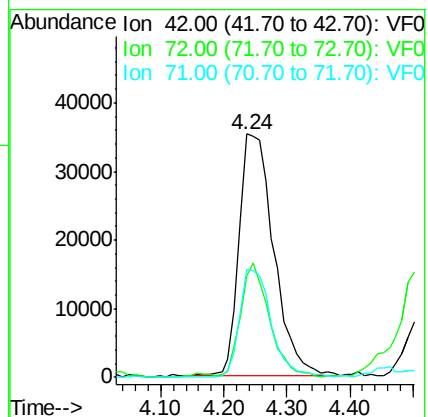
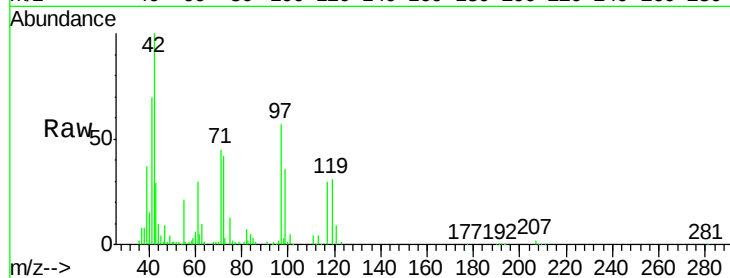
Tot Ion: 42 Resp: 133998

Ion Ratio Lower Upper

42 100

72 39.6 31.2 46.8

71 40.8 30.2 45.2



#30

Chloroform

Concen: 46.71 ug/l

RT: 4.03 min Scan# 355

Delta R.T. -0.01 min

Lab File: VF059270.D

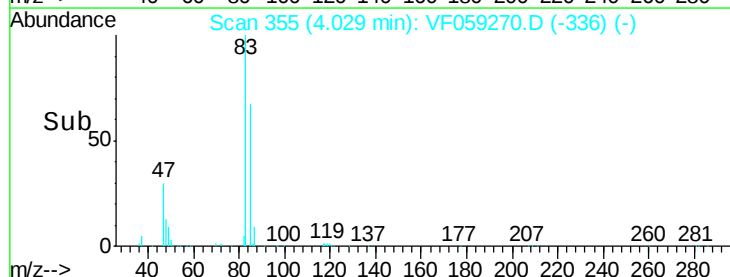
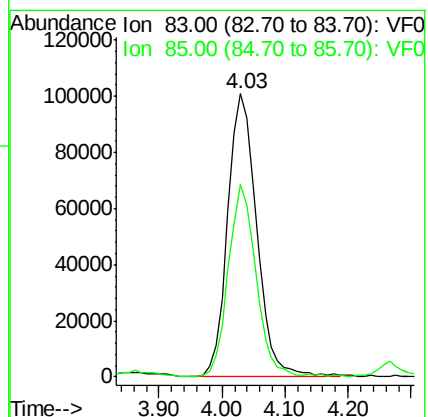
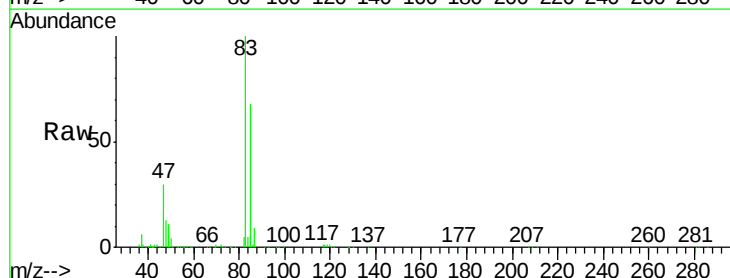
Acq: 21 Jun 2018 19:32

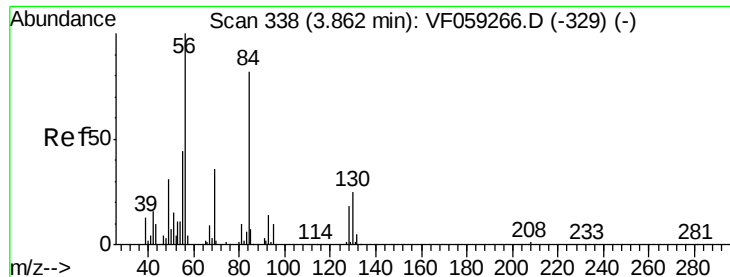
Tgt Ion: 83 Resp: 320931

Ion Ratio Lower Upper

83 100

85 68.0 54.2 81.2

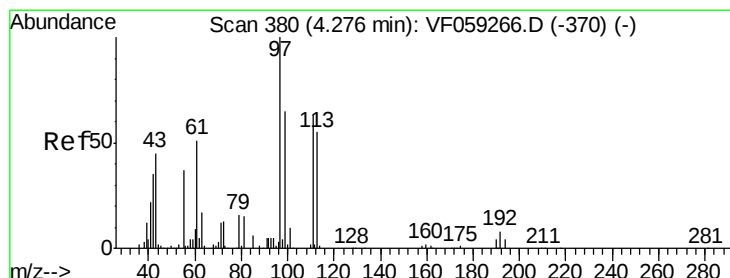
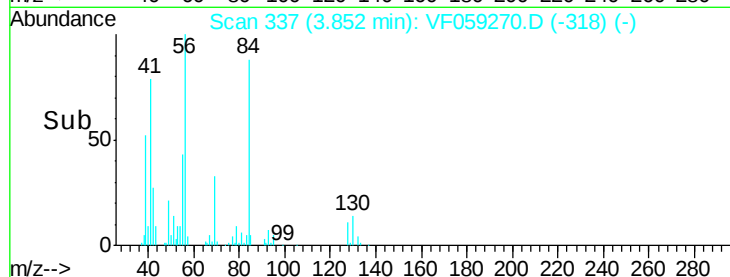
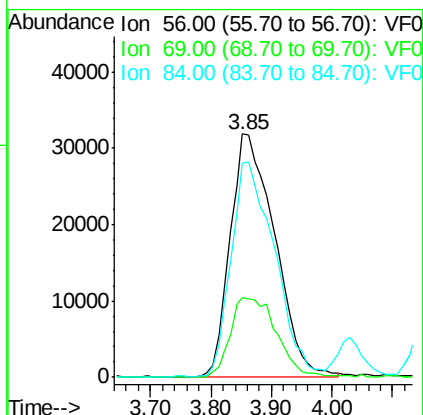
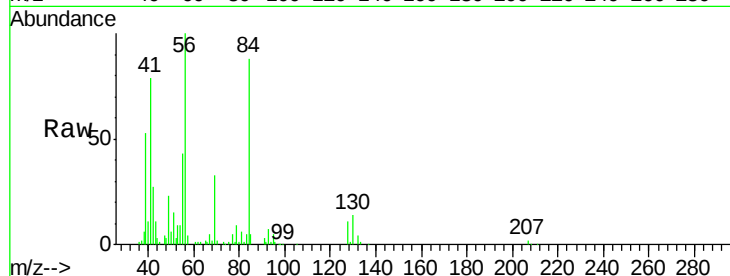




#31
Cyclohexane
Concen: 50.19 ug/l
RT: 3.85 min Scan# 337
Delta R.T. -0.01 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

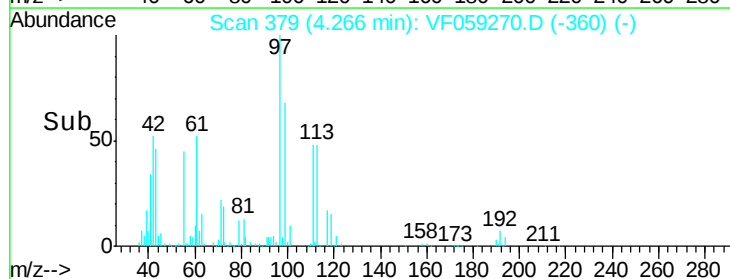
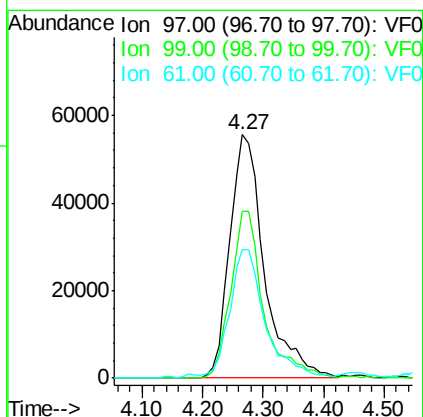
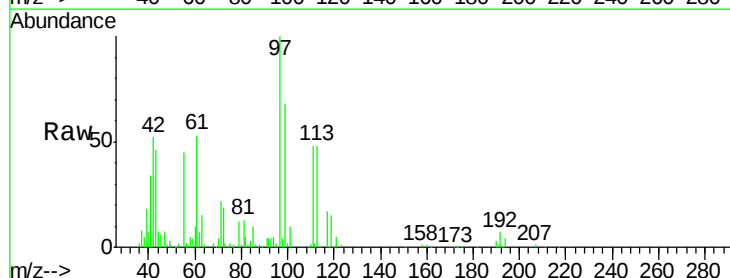
Instrument :
MSVOA_F
ClientSampleId :

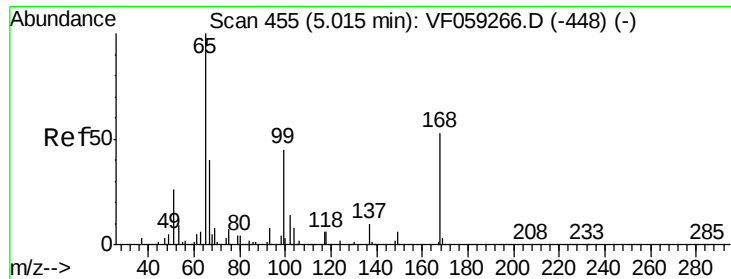
Tot Ion: 56 Resp: 163954
Ion Ratio Lower Upper
56 100
69 32.7 28.6 43.0
84 87.9 65.8 98.6



#32
1,1,1-Trichloroethane
Concen: 42.79 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion: 97 Resp: 222015
Ion Ratio Lower Upper
97 100
99 68.5 52.4 78.6
61 52.7 40.9 61.3

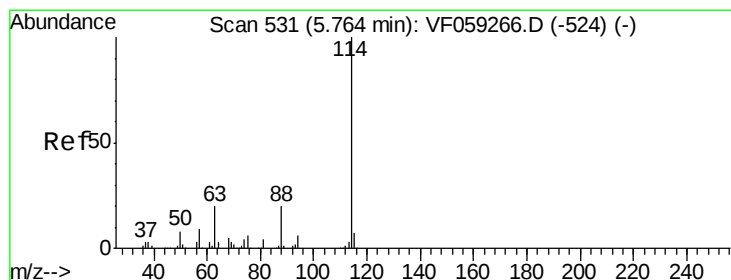
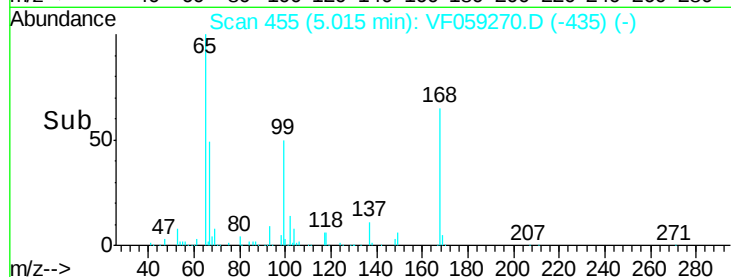
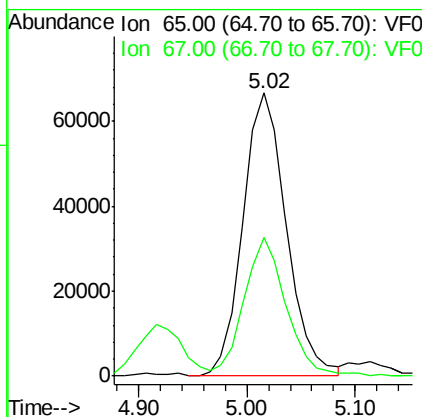
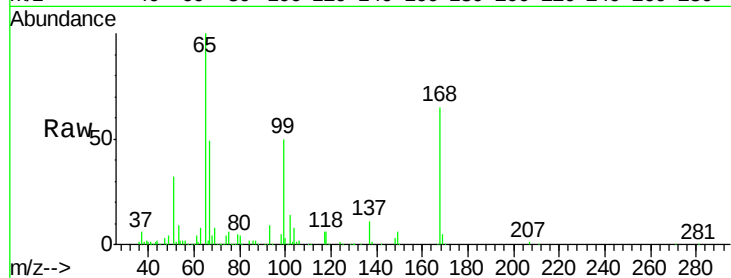




#33
 1,2-Dichloroethane-d4
 Concen: 47.71 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.00 min
 Lab File: VF059270.D
 Acq: 21 Jun 2018 19:32

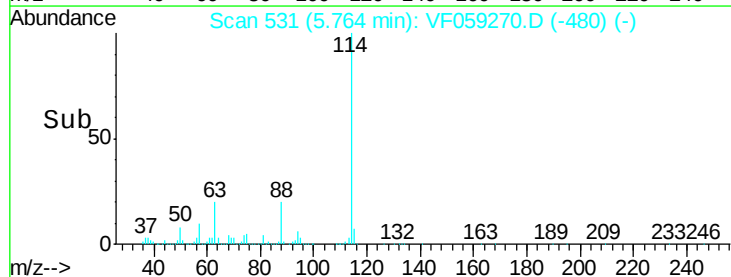
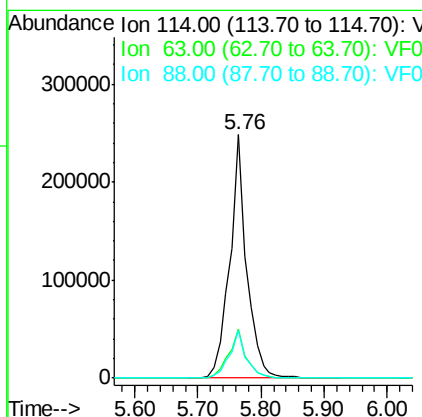
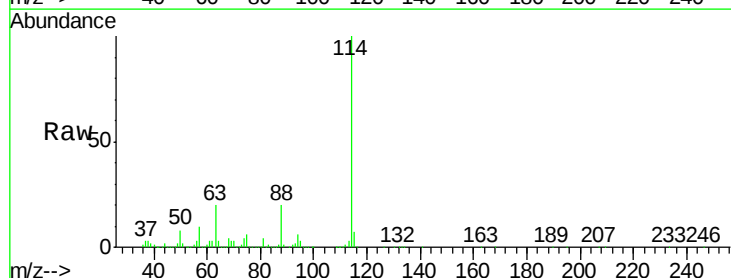
Instrument :
 MSVOA_F
 ClientSampleId :

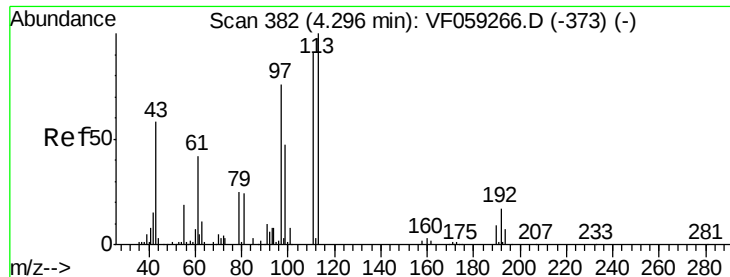
Tot Ion: 65 Resp: 184698
 Ion Ratio Lower Upper
 65 100
 67 48.9 0.0 95.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VF059270.D
 Acq: 21 Jun 2018 19:32

Tgt Ion: 114 Resp: 460413
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.0
 88 19.6 0.0 39.6





#35

Dibromofluoromethane

Concen: 41.64 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :
MSVOA_F
ClientSampleId :

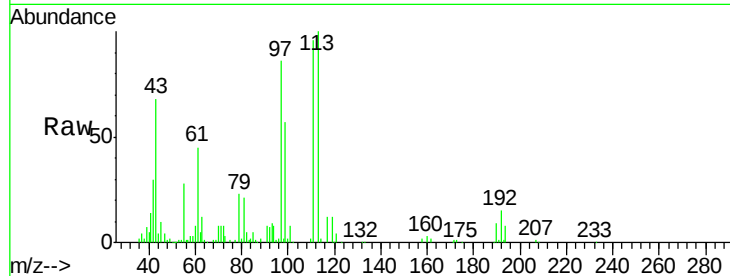
Tot Ion:113 Resp: 161295

Ion Ratio Lower Upper

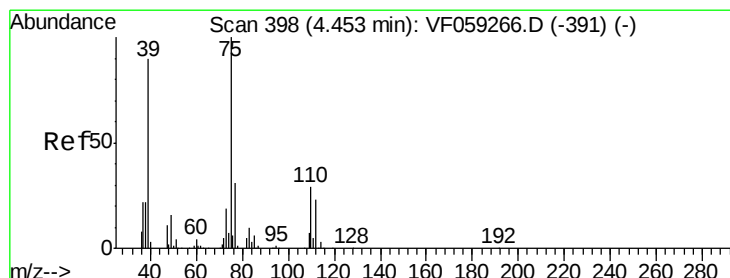
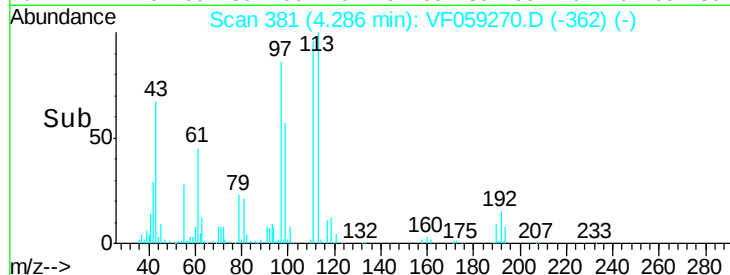
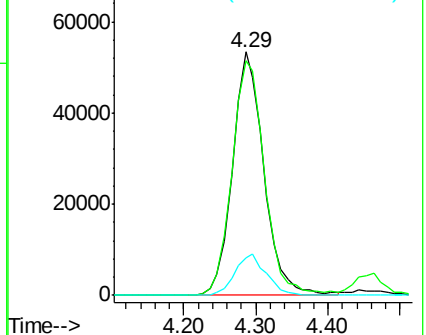
113 100

111 96.4 73.1 109.7

192 15.4 13.9 20.9



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: 46.30 ug/l

RT: 4.45 min Scan# 398

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

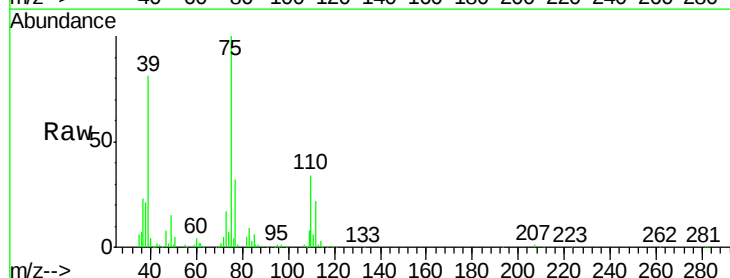
Tgt Ion: 75 Resp: 224007

Ion Ratio Lower Upper

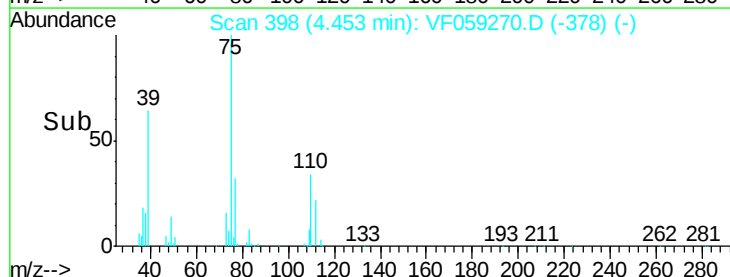
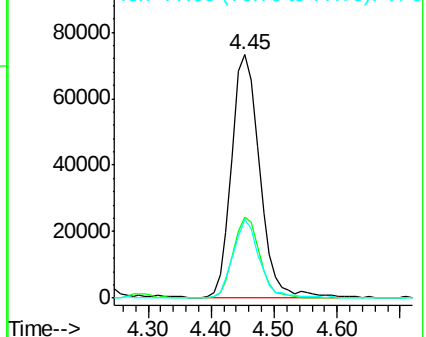
75 100

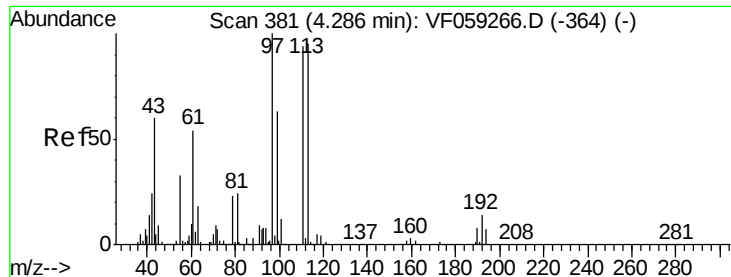
110 33.5 14.5 43.5

77 32.3 25.0 37.6



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: 43.91 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :
MSVOA_F
ClientSampleId :

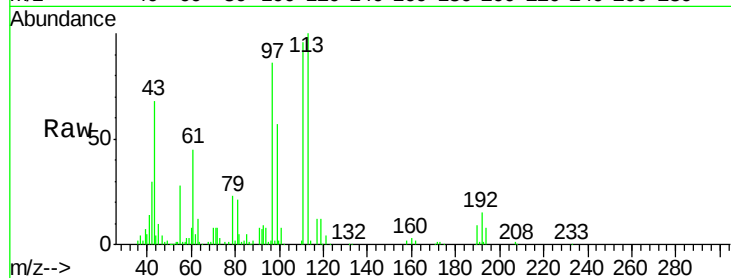
Tot Ion: 43 Resp: 135768

Ion Ratio Lower Upper

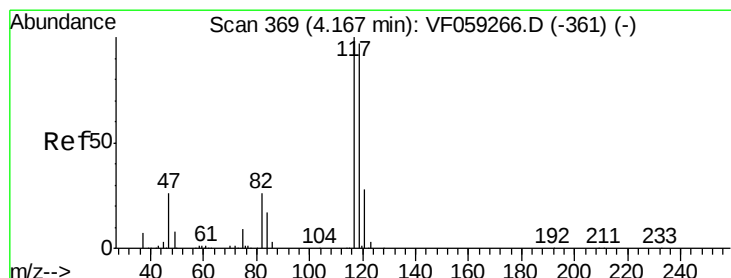
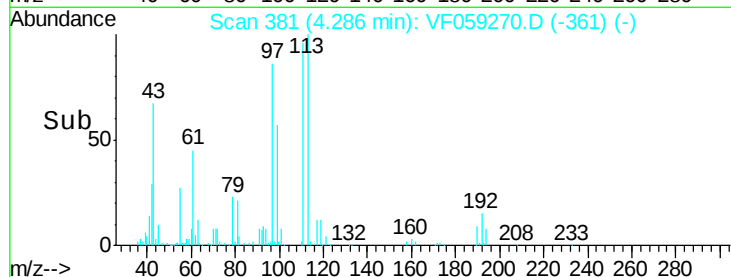
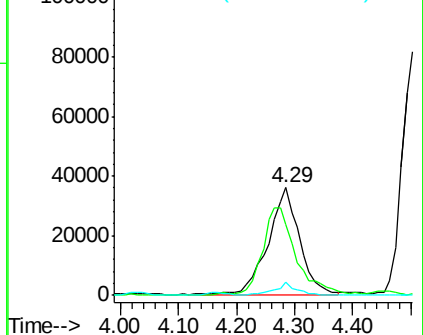
43 100

61 66.3 71.6 107.4#

70 12.1 6.9 10.3#



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



#38

Carbon Tetrachloride

Concen: 46.18 ug/l

RT: 4.17 min Scan# 369

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

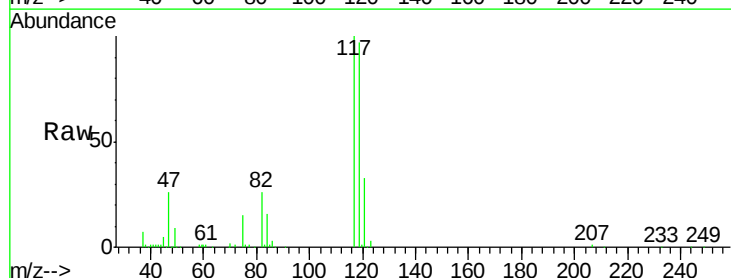
Tgt Ion: 117 Resp: 274482

Ion Ratio Lower Upper

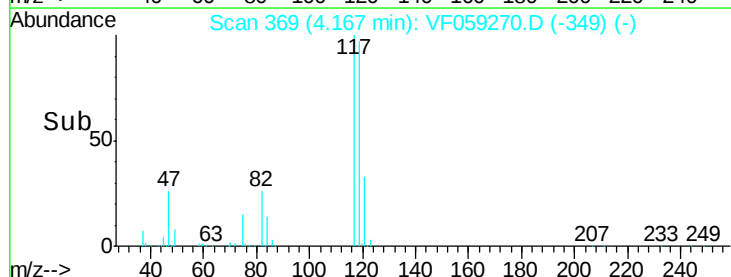
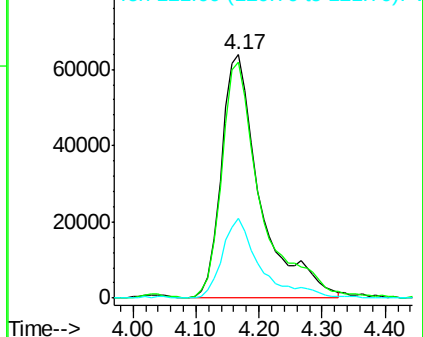
117 100

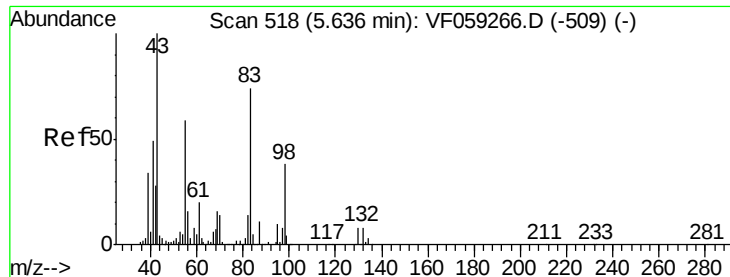
119 97.0 77.5 116.3

121 33.0 22.2 33.4



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

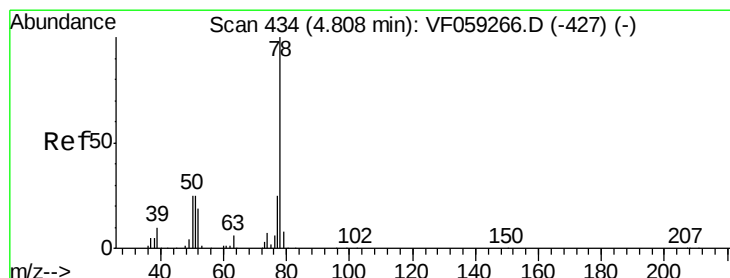
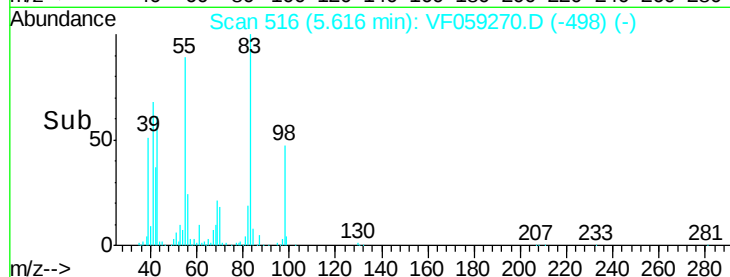
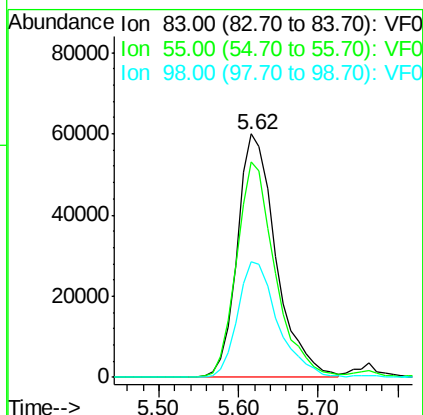
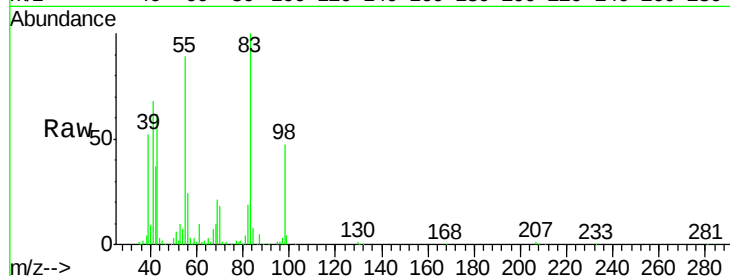




#39
Methvlcvclohexane
Concen: 46.67 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.02 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

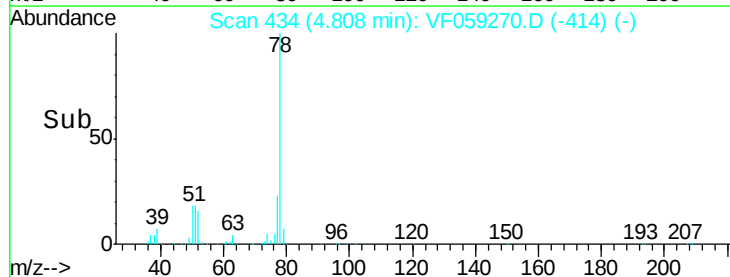
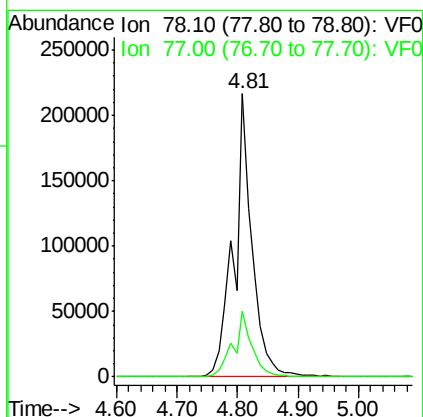
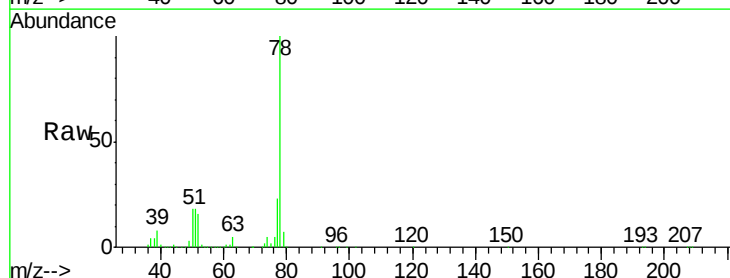
Instrument :
MSVOA_F
ClientSampleId :

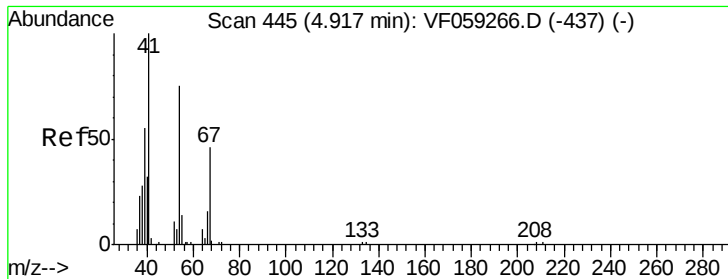
Tot Ion: 83 Resp: 202092
Ion Ratio Lower Upper
83 100
55 88.7 63.7 95.5
98 47.4 41.6 62.4



#40
Benzene
Concen: 43.72 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion: 78 Resp: 448882
Ion Ratio Lower Upper
78 100
77 23.0 20.4 30.6

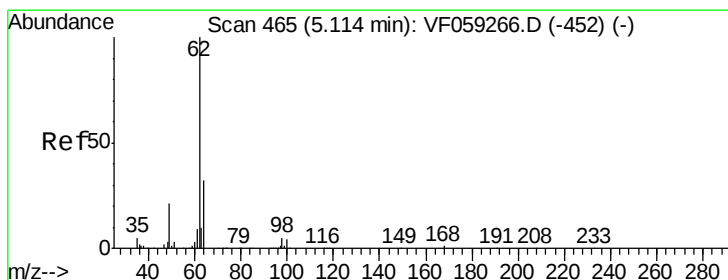
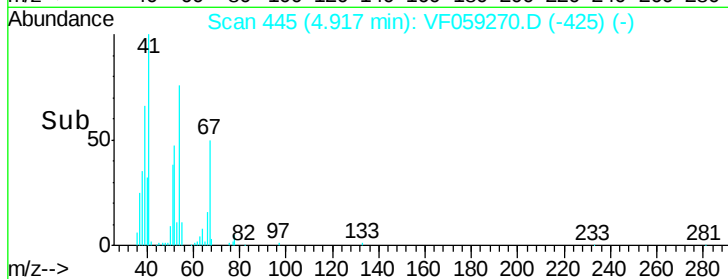
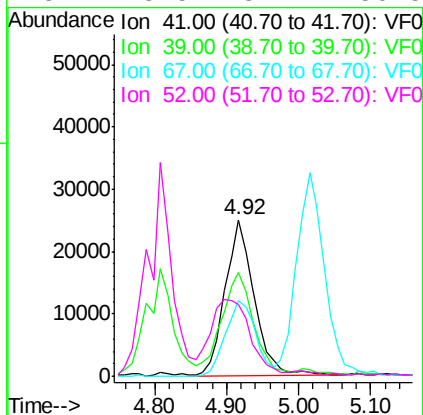
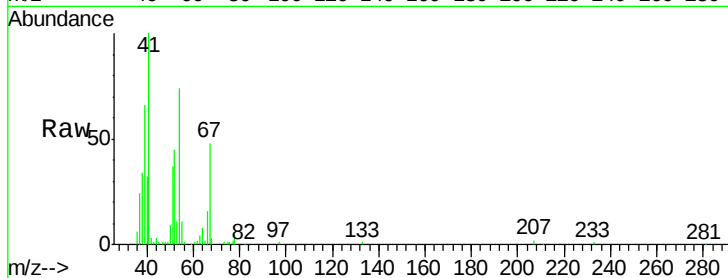




#41
Methacrylonitrile
Concen: 47.67 ug/l
RT: 4.92 min Scan# 445
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

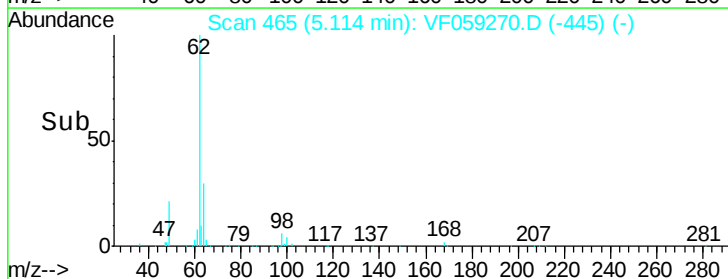
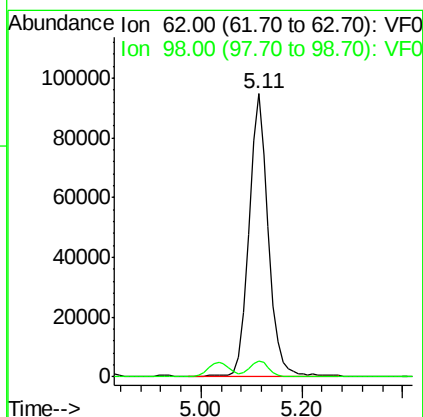
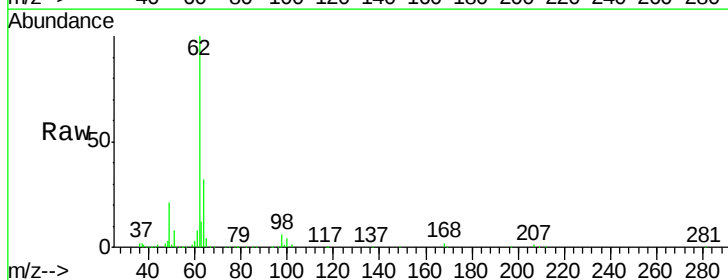
Instrument :
MSVOA_F
ClientSampled :

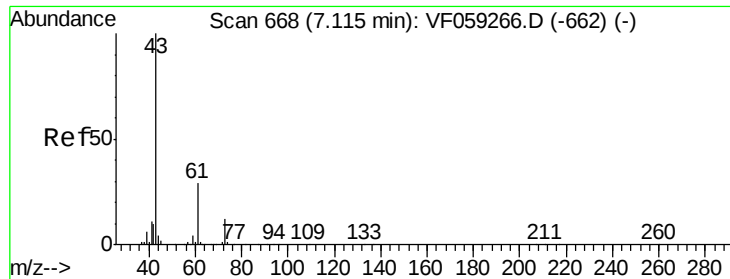
Tot Ion:	41	Resp:	70401
Ion	Ratio	Lower	Upper
41	100		
39	66.1	57.0	85.6
67	48.5	36.8	55.2
52	45.5	37.7	56.5



#42
1,2-Dichloroethane
Concen: 43.05 ug/l
RT: 5.11 min Scan# 465
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion:	62	Resp:	254577
Ion	Ratio	Lower	Upper
62	100		
98	5.7	0.0	10.4



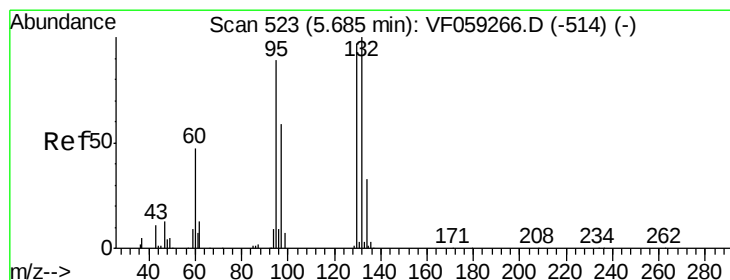
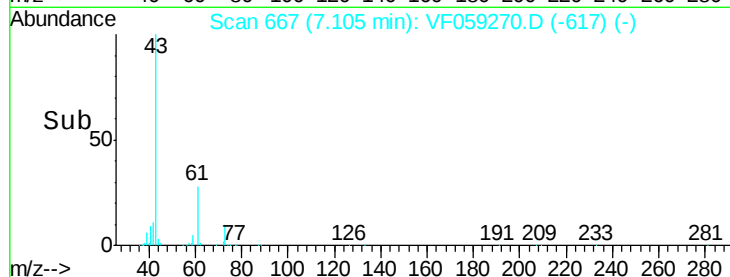
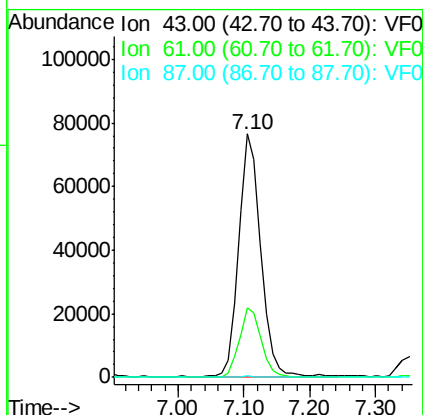
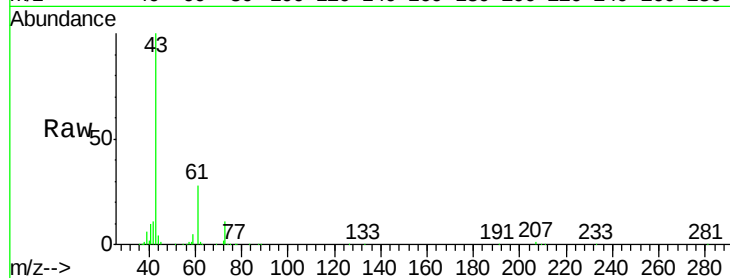


#43

Isopropyl Acetate
 Concen: 47.49 ug/l
 RT: 7.10 min Scan# 667
 Delta R.T. -0.01 min
 Lab File: VF059270.D
 Acq: 21 Jun 2018 19:32

Instrument :
 MSVOA_F
 ClientSampled :

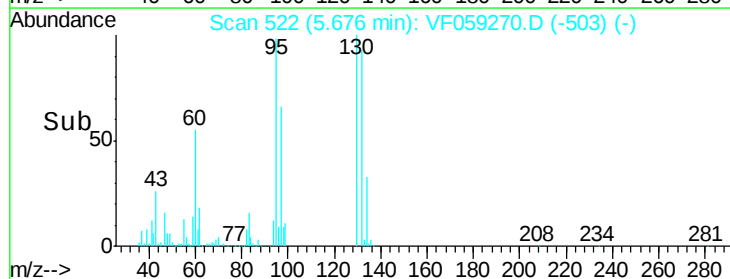
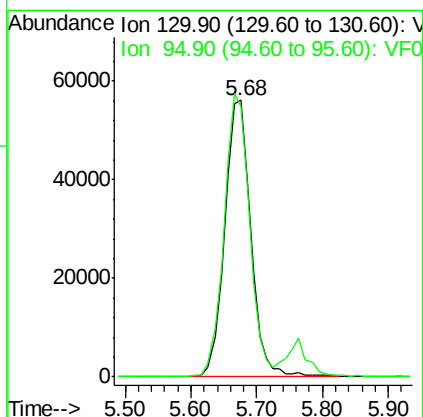
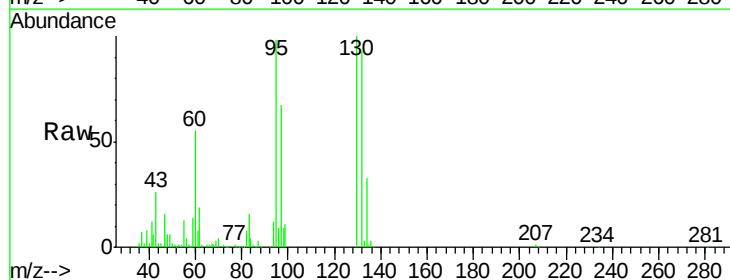
Tot Ion: 43 Resp: 179903
 Ion Ratio Lower Upper
 43 100
 61 28.3 22.8 34.2
 87 0.4 0.3 0.5

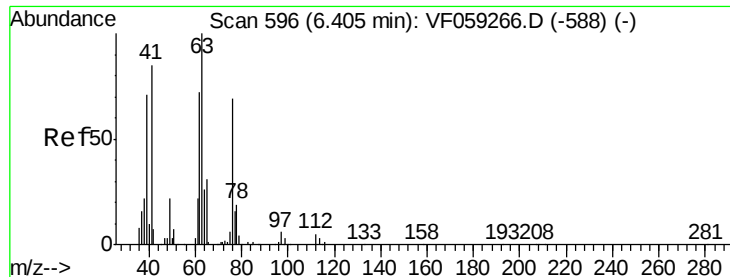


#44

Trichloroethene
 Concen: 43.94 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.01 min
 Lab File: VF059270.D
 Acq: 21 Jun 2018 19:32

Tgt Ion:130 Resp: 156341
 Ion Ratio Lower Upper
 130 100
 95 97.7 0.0 183.6





#45

1,2-Dichloropropane

Concen: 44.91 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

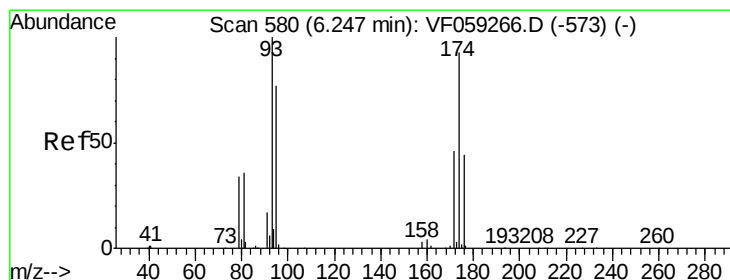
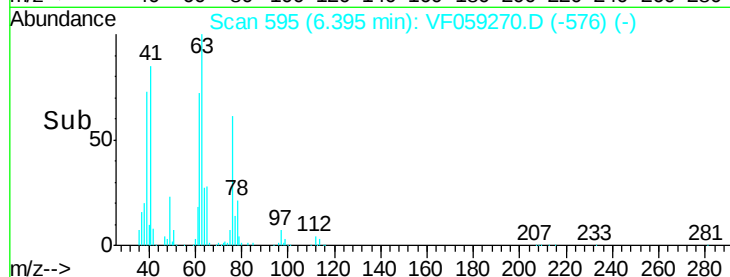
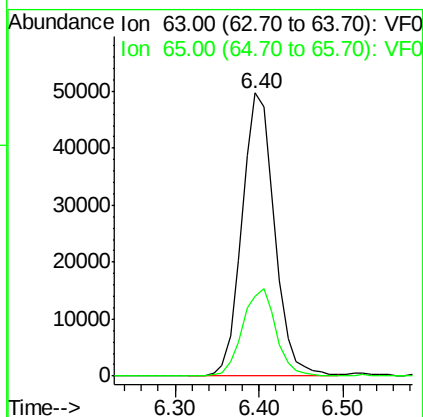
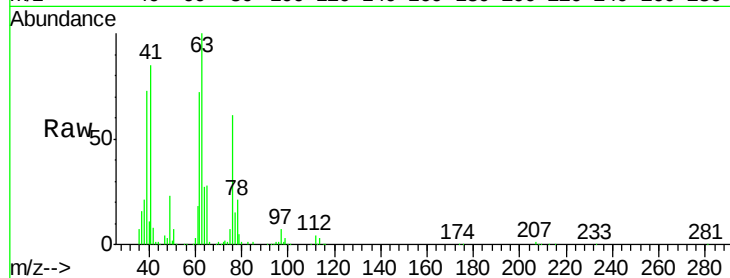
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 63 Resp: 134515

Ion Ratio Lower Upper

63 100

65 28.4 25.3 37.9



#46

Dibromomethane

Concen: 44.42 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

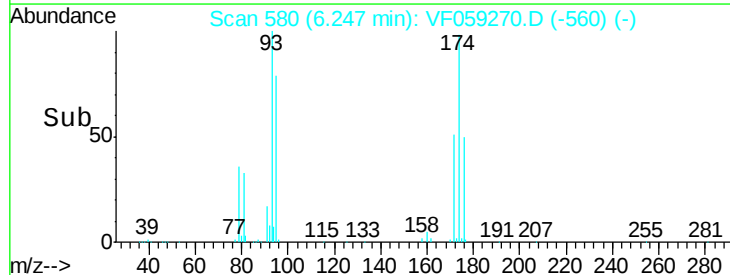
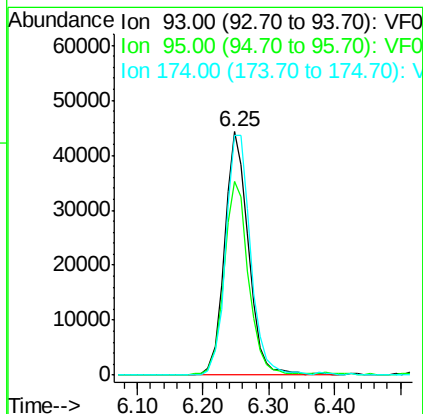
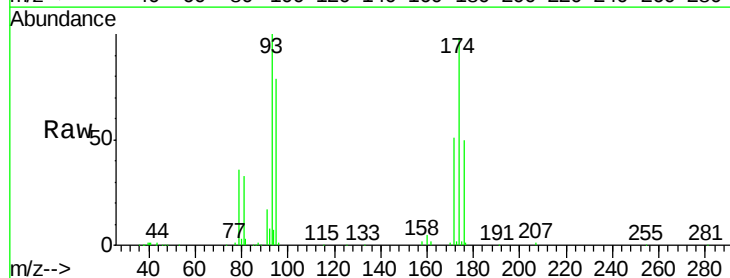
Tgt Ion: 93 Resp: 112287

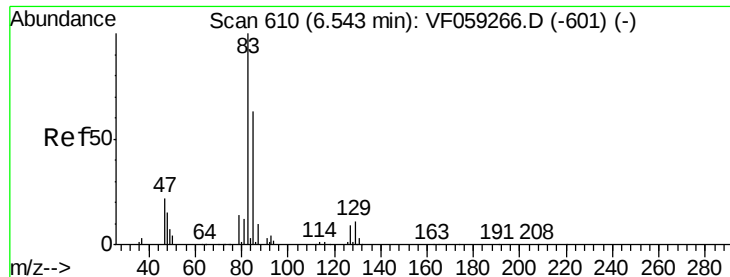
Ion Ratio Lower Upper

93 100

95 79.4 61.8 92.6

174 98.3 74.4 111.6





#47

Bromodichloromethane

Concen: 43.91 ug/l

RT: 6.54 min Scan# 610

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

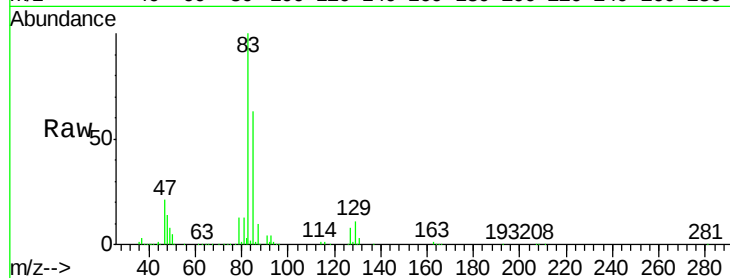
Tot Ion: 83 Resp: 265780

Ion Ratio Lower Upper

83 100

85 62.8 50.3 75.5

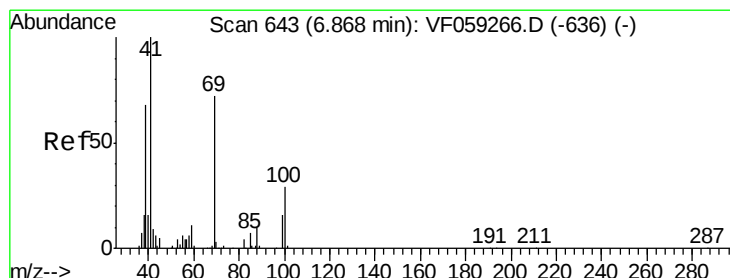
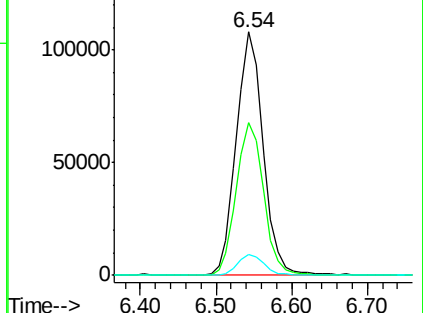
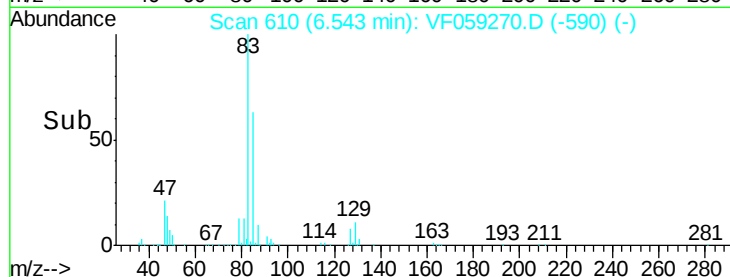
127 8.4 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 49.33 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

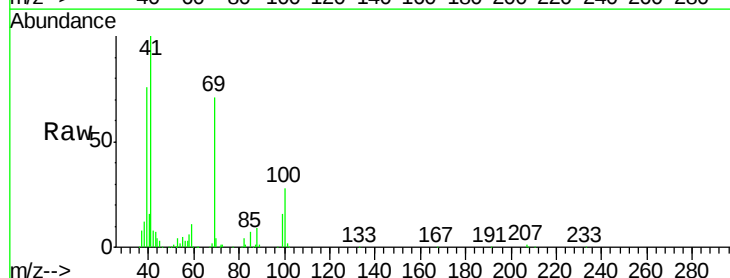
Tgt Ion: 41 Resp: 118321

Ion Ratio Lower Upper

41 100

69 71.2 57.4 86.2

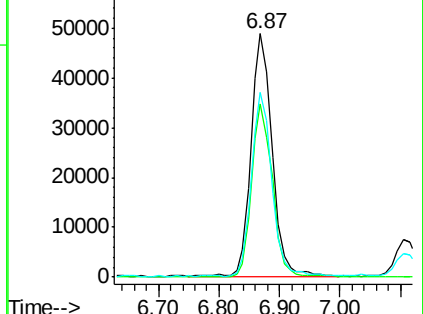
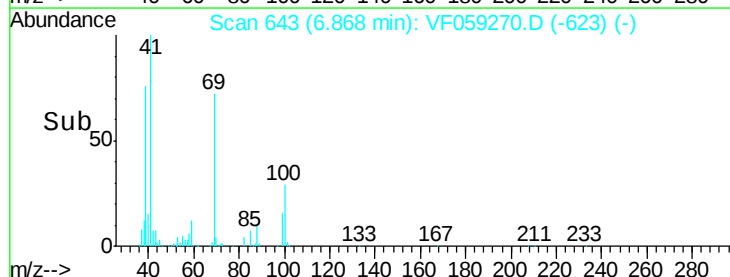
39 76.0 54.8 82.2

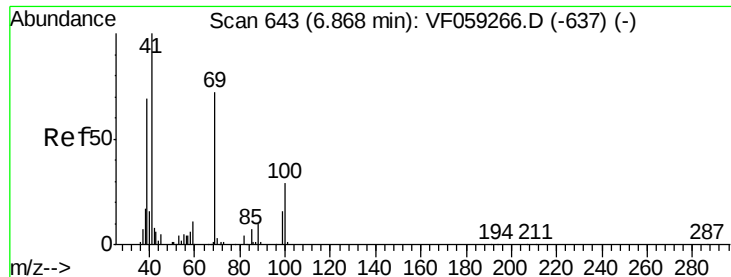


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

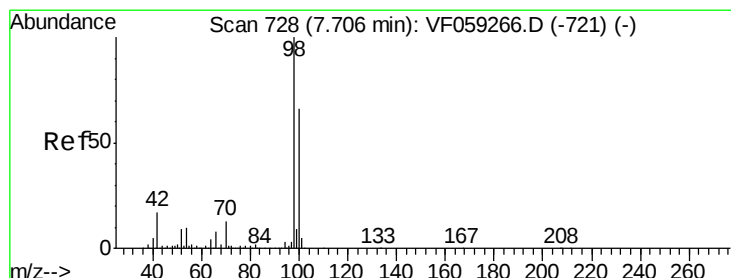
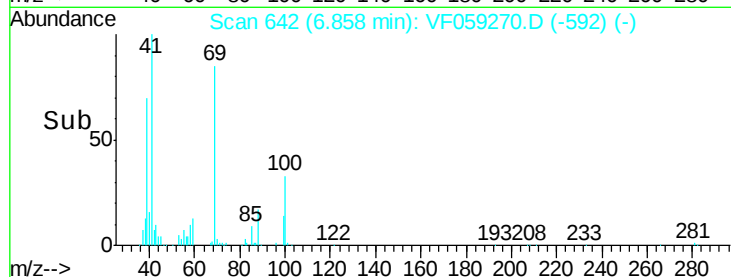
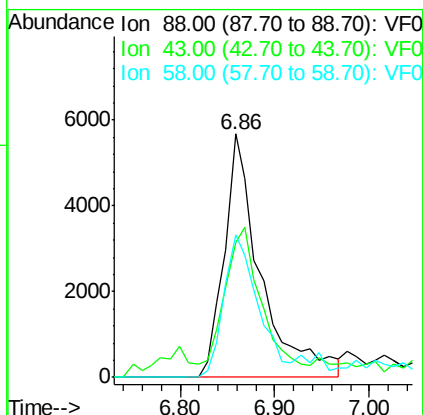
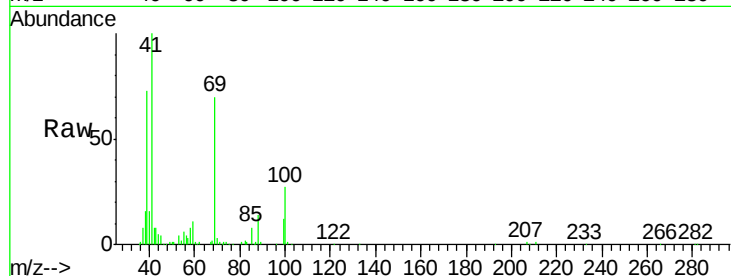




#49
1,4-Dioxane
Concen: 1095.75 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

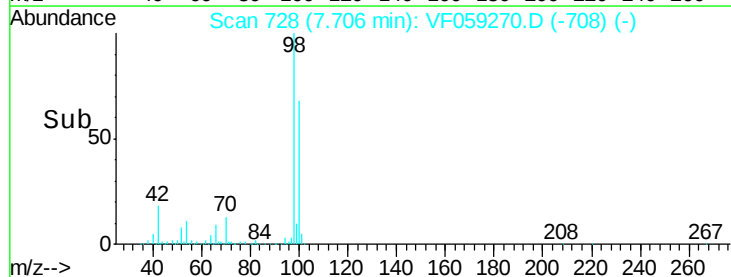
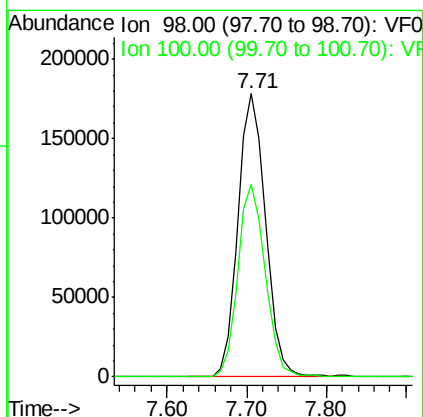
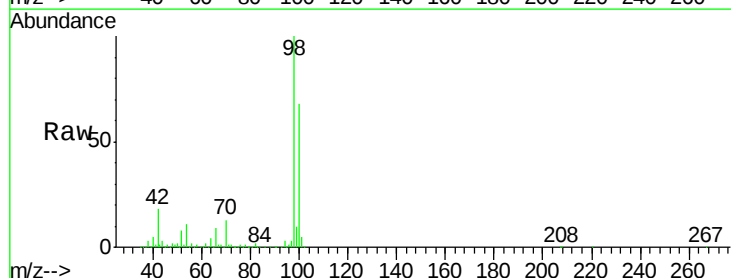
Instrument :
MSVOA_F
ClientSampleId :

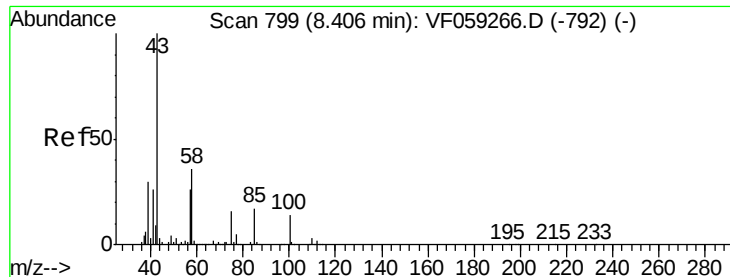
Tot Ion: 88 Resp: 15241
Ion Ratio Lower Upper
88 100
43 55.4 55.5 83.3#
58 58.6 50.1 75.1



#50
Toluene-d8
Concen: 43.50 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion: 98 Resp: 428658
Ion Ratio Lower Upper
98 100
100 68.2 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 231.20 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

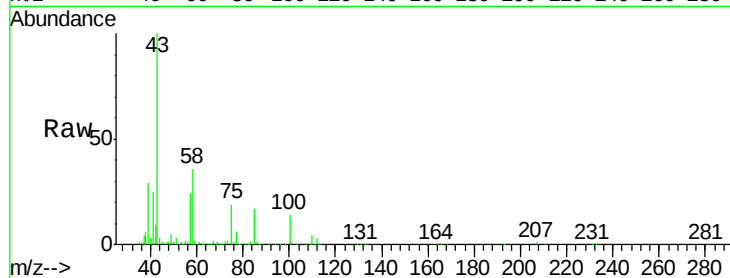
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 624634

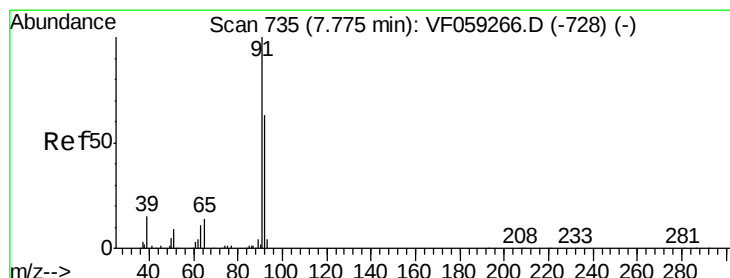
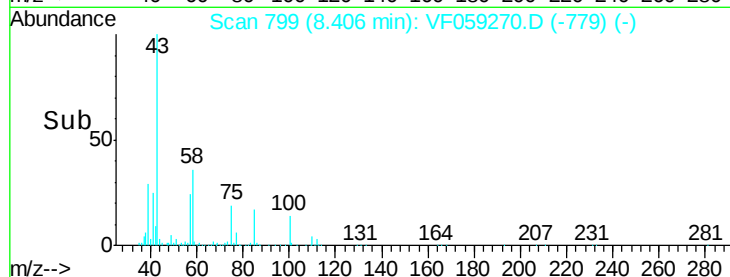
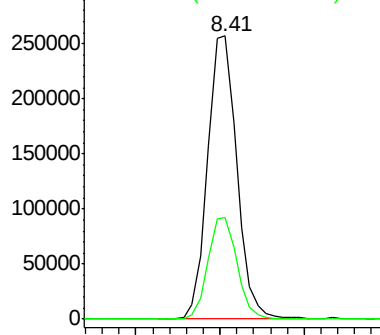
Ion Ratio Lower Upper

43 100

58 35.8 29.0 43.6



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



#52

Toluene

Concen: 41.04 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF059270.D

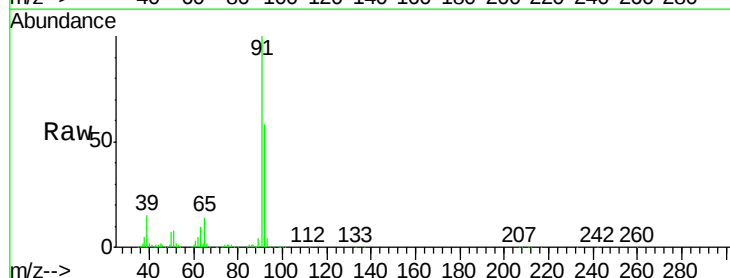
Acq: 21 Jun 2018 19:32

Tgt Ion: 92 Resp: 325210

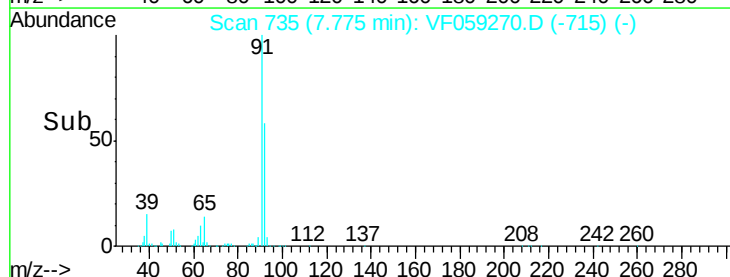
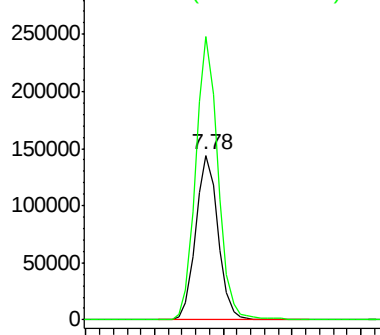
Ion Ratio Lower Upper

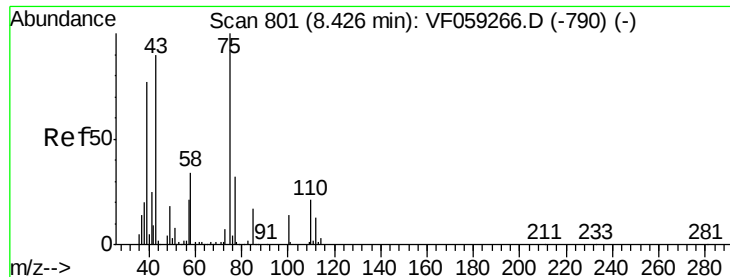
92 100

91 172.0 127.8 191.6



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: 42.84 ug/l

RT: 8.43 min Scan# 801

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

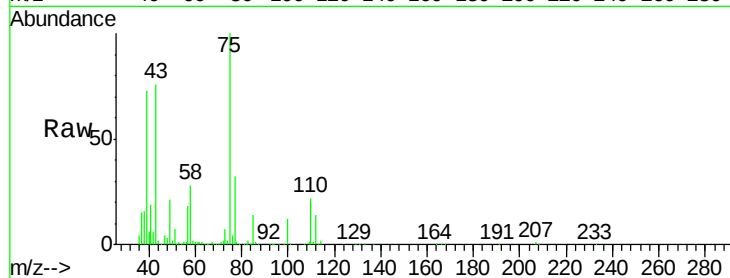
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 243427

Ion Ratio Lower Upper

75 100

77 32.0 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.43

120000

100000

80000

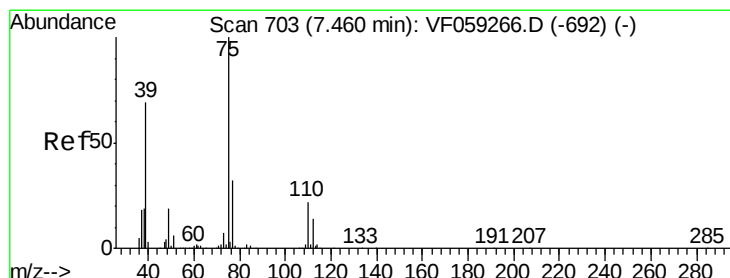
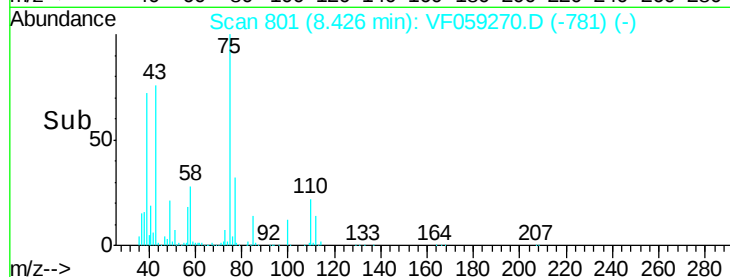
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 44.96 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

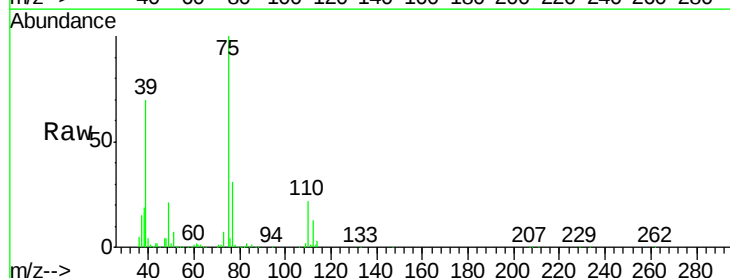
Tgt Ion: 75 Resp: 269743

Ion Ratio Lower Upper

75 100

77 31.2 26.0 39.0

39 69.8 55.5 83.3



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

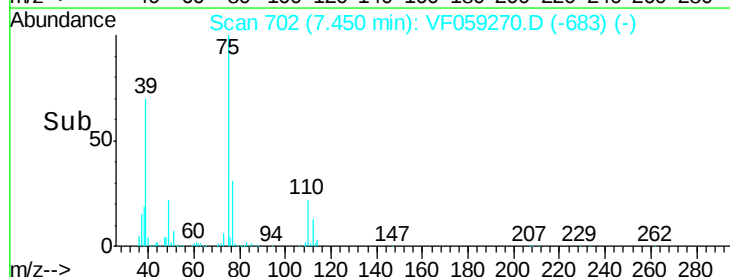
150000

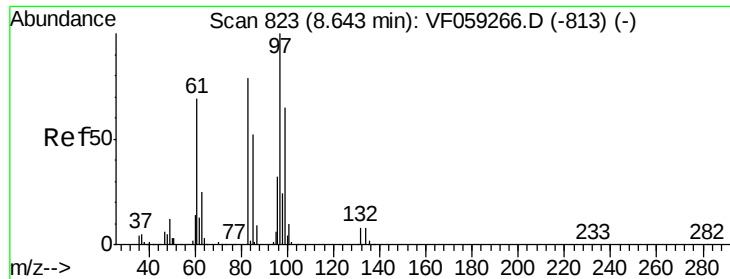
100000

50000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 43.15 ug/l

RT: 8.63 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 97 Resp: 131976

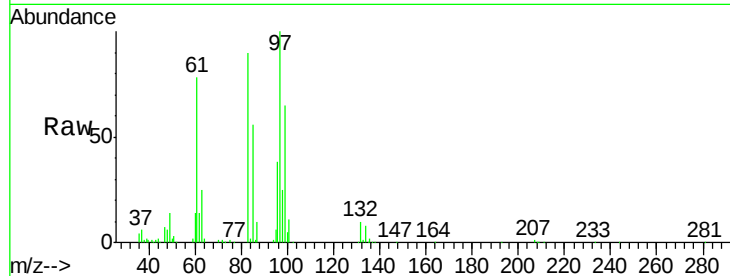
Ion	Ratio	Lower	Upper
97	100		
83	90.2	63.2	94.8
85	55.6	41.8	62.6
99	65.3	51.7	77.5

97 100

83 90.2 63.2 94.8

85 55.6 41.8 62.6

99 65.3 51.7 77.5



Abundance Ion 97.00 (96.70 to 97.70): VF0

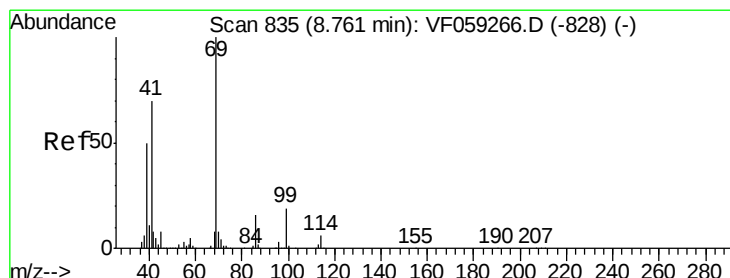
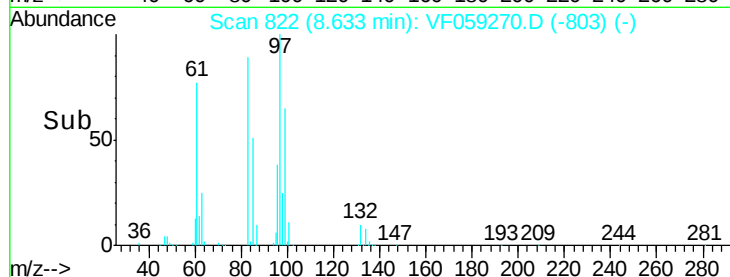
Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0

8.63

Time-->



#56

Ethyl methacrylate

Concen: 48.46 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

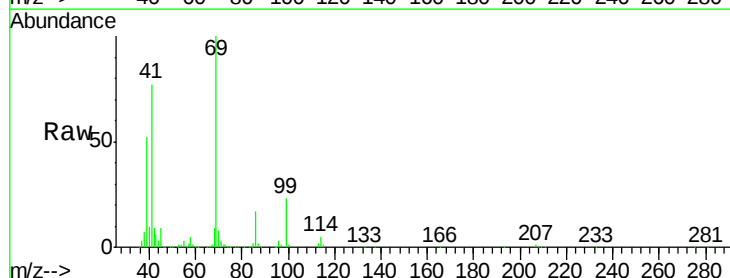
Tgt Ion: 69 Resp: 169456

Ion	Ratio	Lower	Upper
69	100		
41	76.6	56.6	85.0
39	51.8	40.5	60.7

69 100

41 76.6 56.6 85.0

39 51.8 40.5 60.7



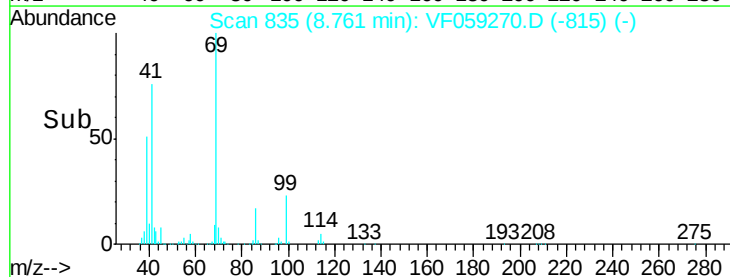
Abundance Ion 69.00 (68.70 to 69.70): VF0

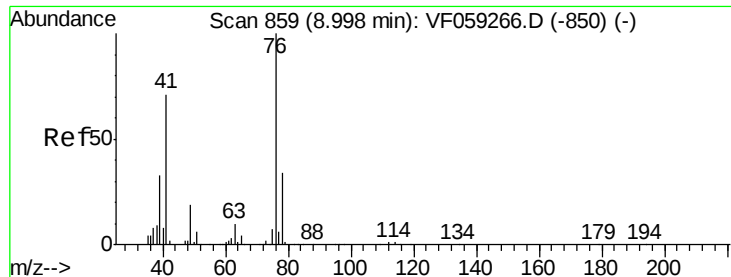
Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

8.76

Time-->





#57

1,3-Dichloropropane

Concen: 46.60 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

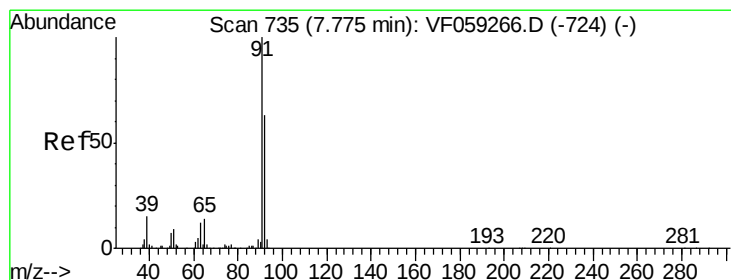
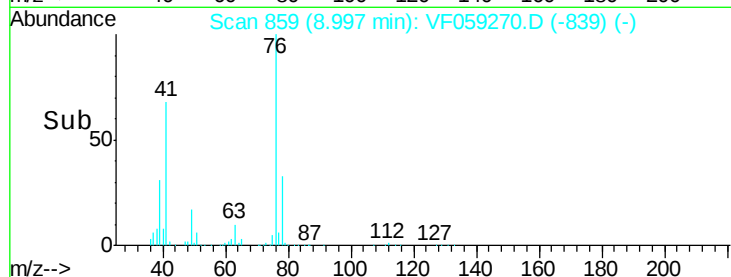
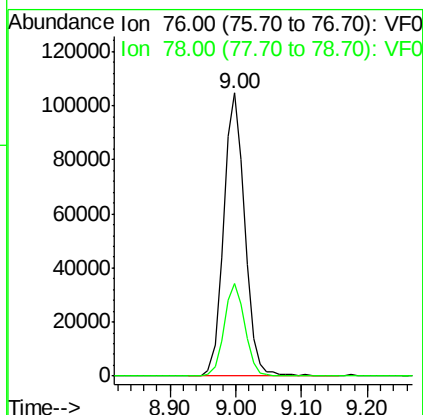
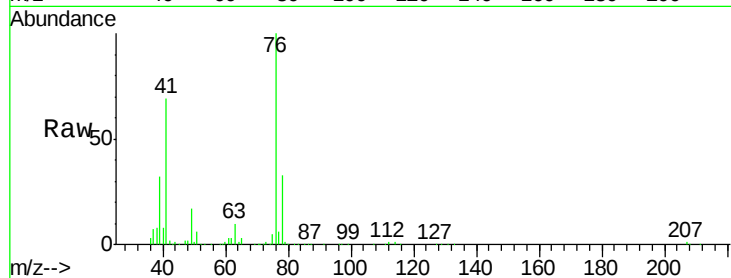
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 235756

Ion Ratio Lower Upper

76 100

78 32.5 27.5 41.3



#58

2-Chloroethyl Vinyl ether

Concen: 200.39 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF059270.D

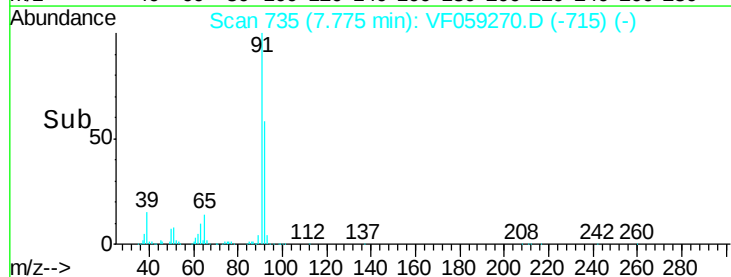
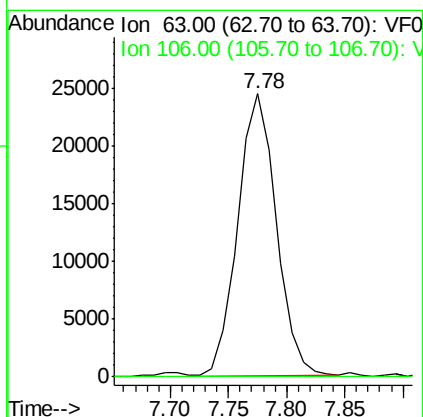
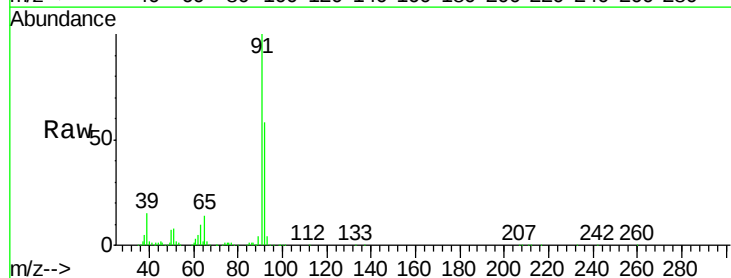
Acq: 21 Jun 2018 19:32

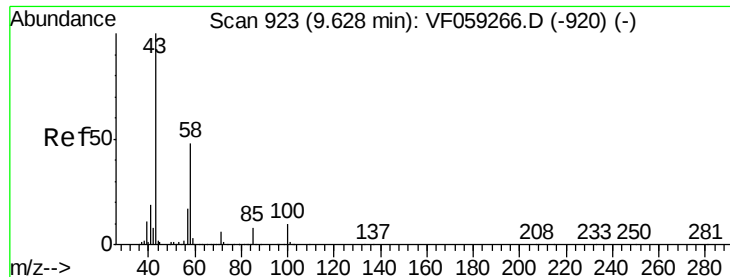
Tgt Ion: 63 Resp: 56042

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

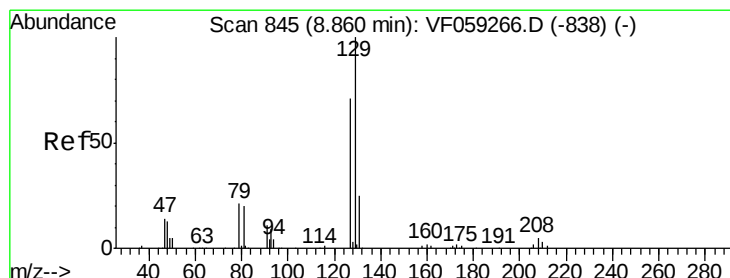
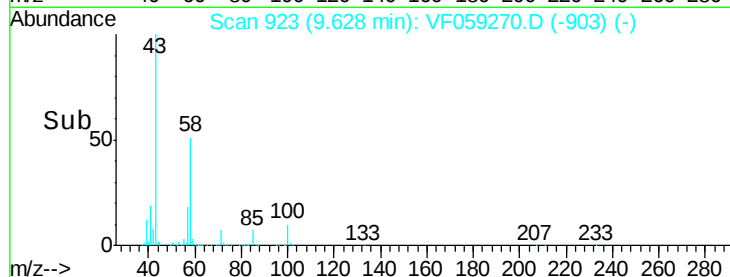
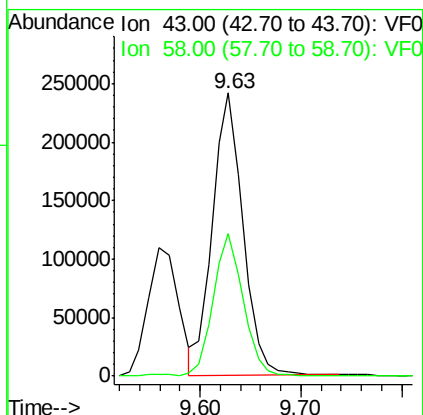
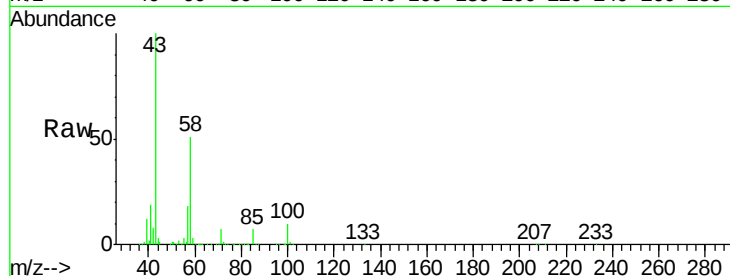




#59
2-Hexanone
Concen: 237.44 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

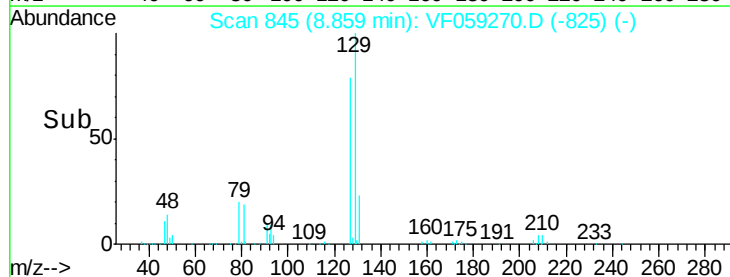
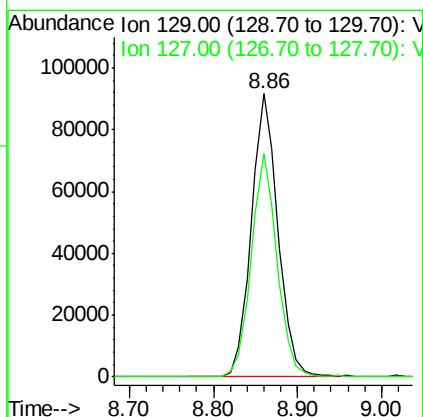
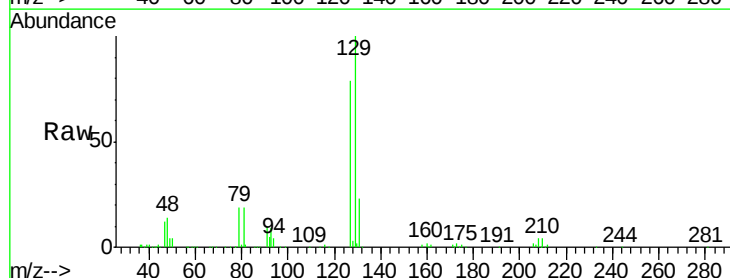
Instrument :
MSVOA_F
ClientSampleId :

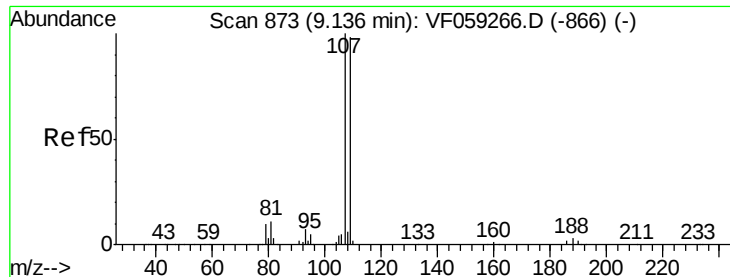
Tot Ion: 43 Resp: 508592
Ion Ratio Lower Upper
43 100
58 50.5 23.3 69.9



#60
Dibromochloromethane
Concen: 45.18 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion:129 Resp: 203352
Ion Ratio Lower Upper
129 100
127 79.1 35.4 106.2





#61

1,2-Dibromoethane

Concen: 46.30 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

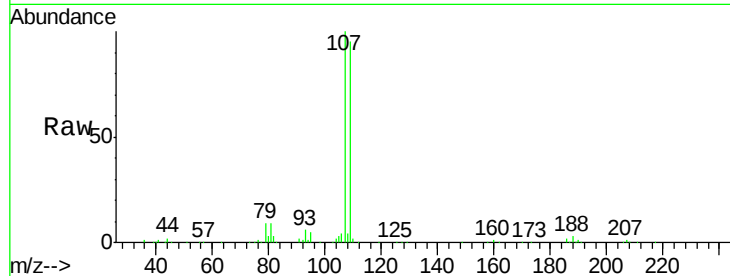
ClientSampleId :

Tot Ion:107 Resp: 163143

Ion Ratio Lower Upper

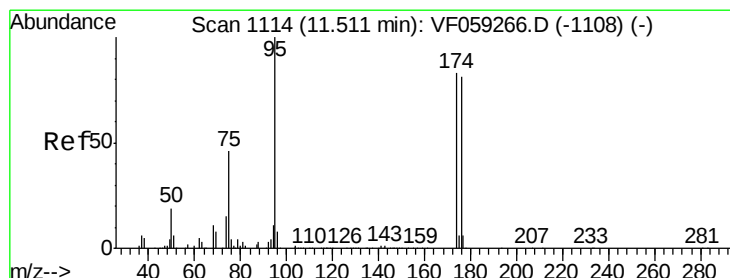
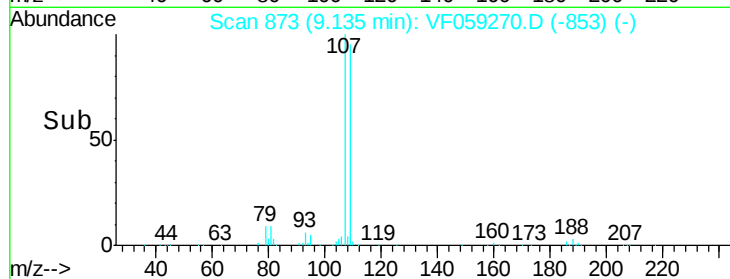
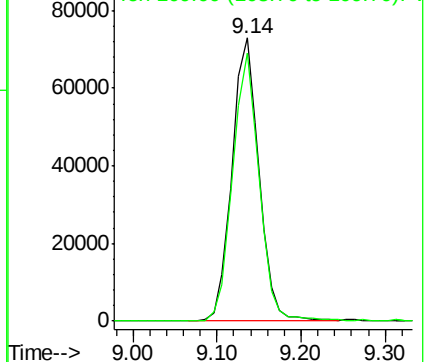
107 100

109 94.6 78.0 117.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 40.48 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

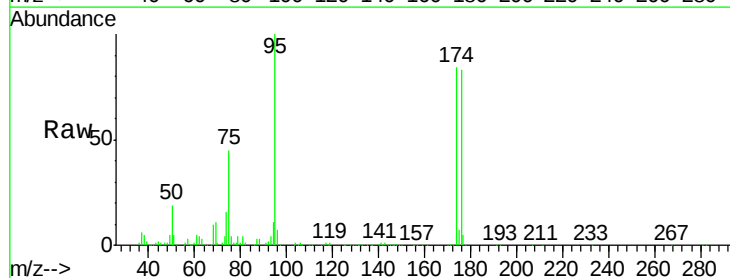
Tgt Ion: 95 Resp: 221166

Ion Ratio Lower Upper

95 100

174 83.7 0.0 166.2

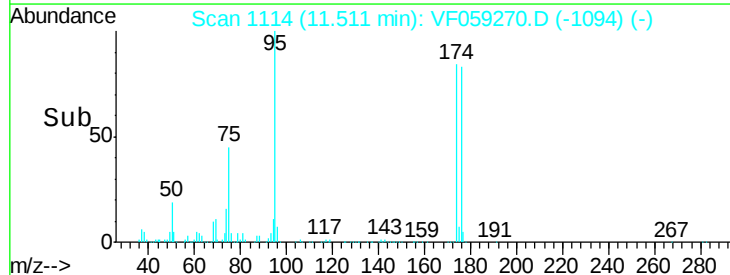
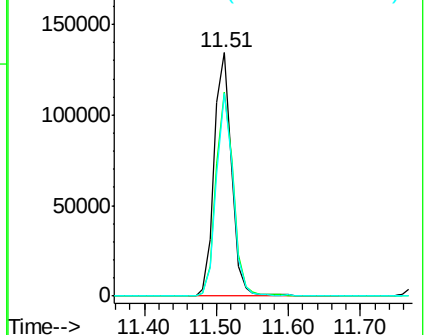
176 83.4 0.0 162.8

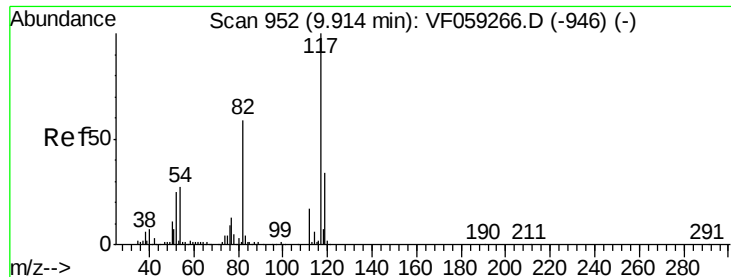


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

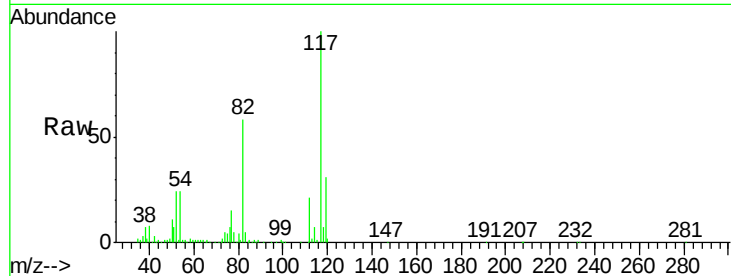




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.1	70.7
119	30.5	26.9	40.3

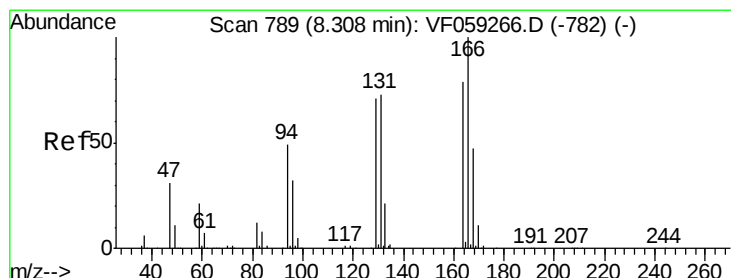
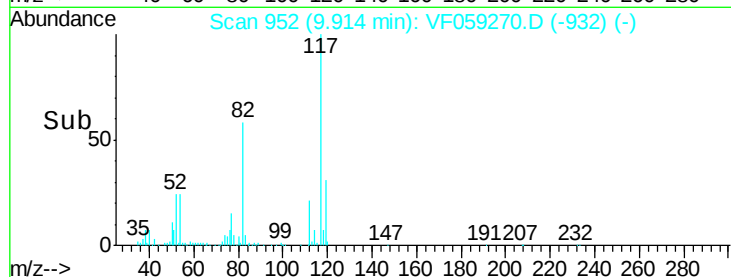
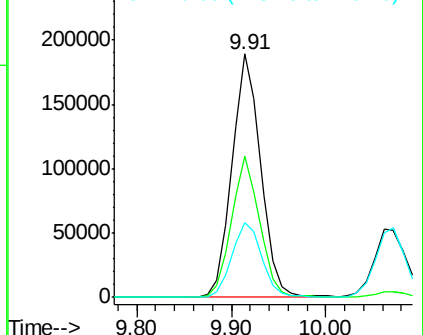


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 51.55 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.9	101.4	152.2
129	103.2	72.2	108.4
131	92.7	73.8	110.6

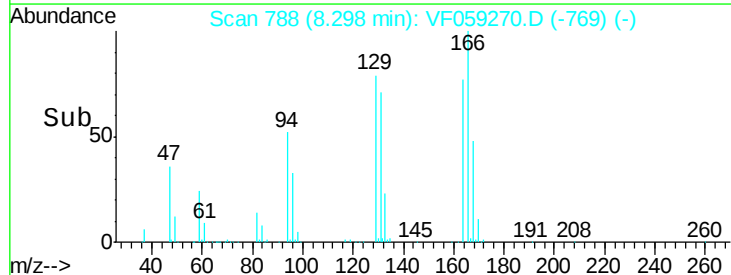
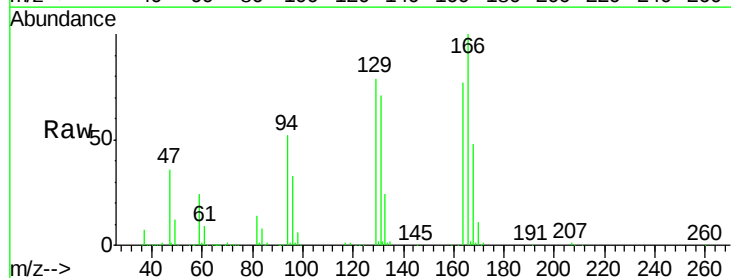
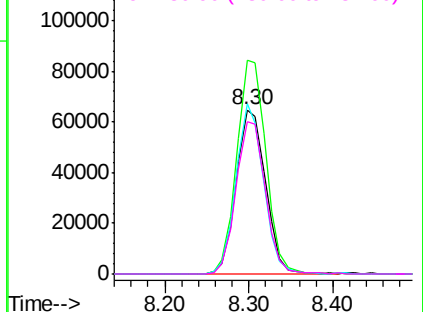
Abundance

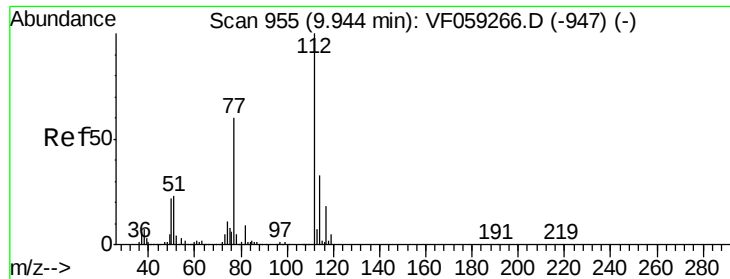
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

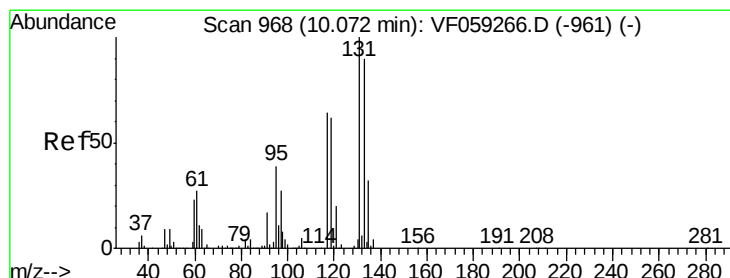
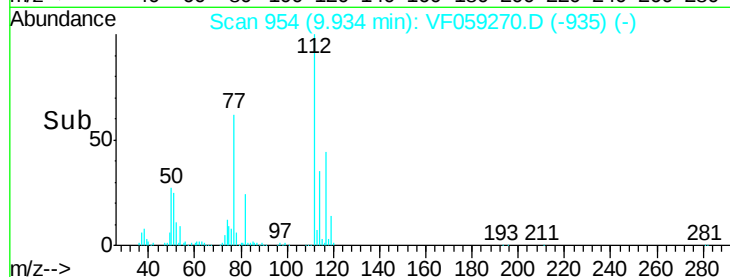
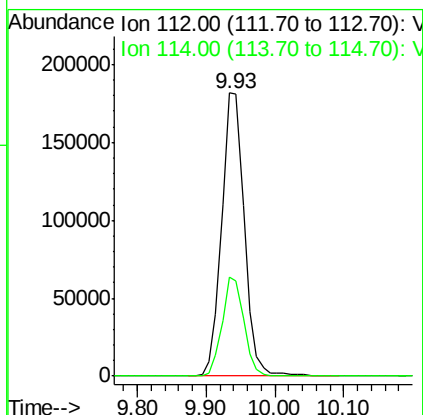
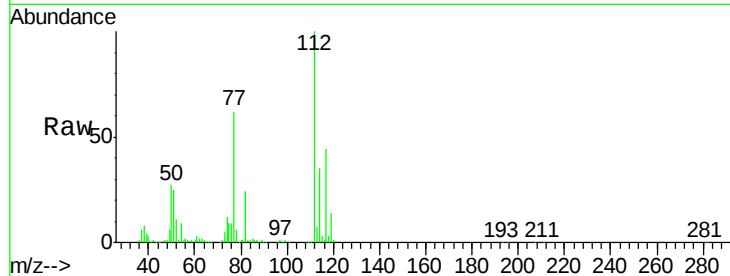




#65
Chlorobenzene
Concen: 49.19 ug/l
RT: 9.93 min Scan# 954
Delta R.T. -0.01 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

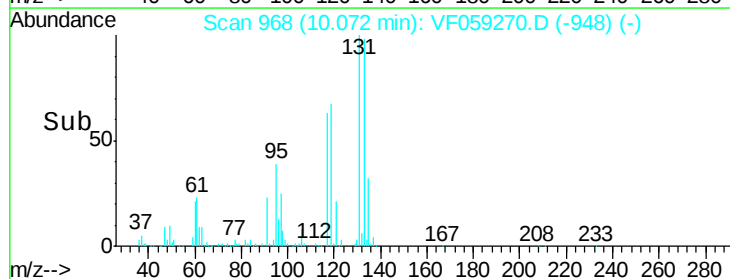
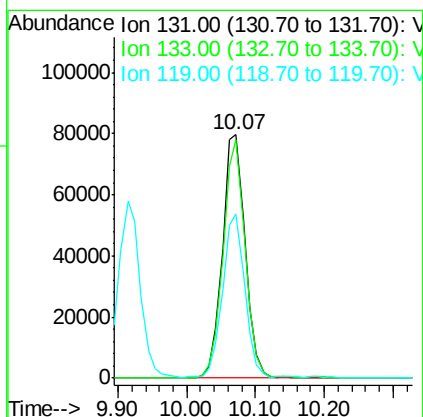
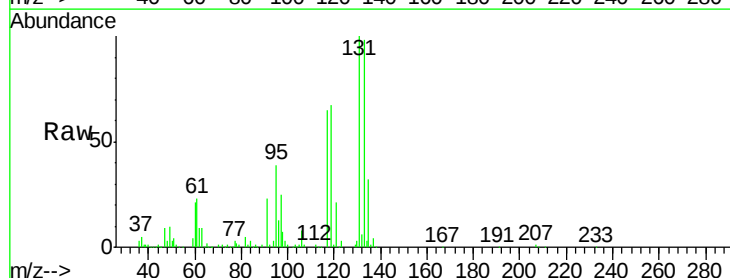
Instrument :
MSVOA_F
ClientSampleId :

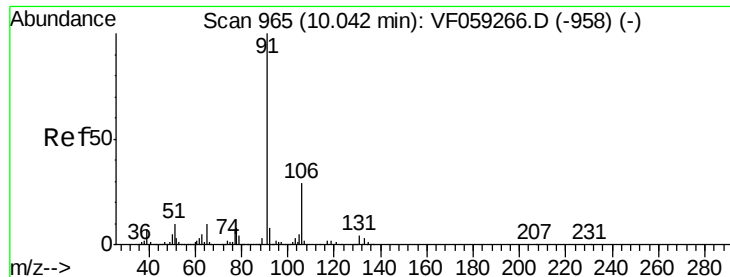
Tot Ion:112 Resp: 415971
Ion Ratio Lower Upper
112 100
114 34.8 26.4 39.6



#66
1,1,1,2-Tetrachloroethane
Concen: 51.75 ug/l
RT: 10.07 min Scan# 968
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion:131 Resp: 182288
Ion Ratio Lower Upper
131 100
133 98.2 45.1 135.2
119 67.4 31.2 93.6





#67

Ethyl Benzene

Concen: 51.26 ug/l

RT: 10.03 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

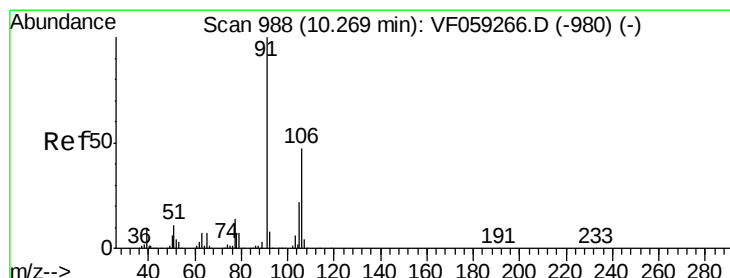
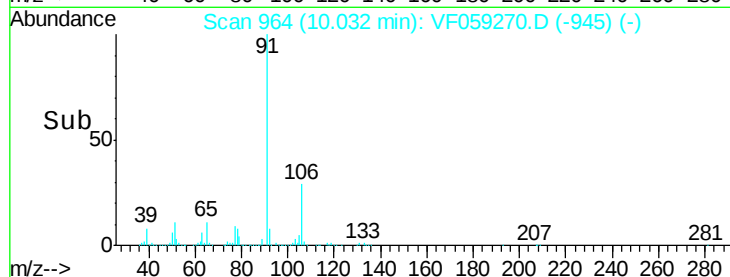
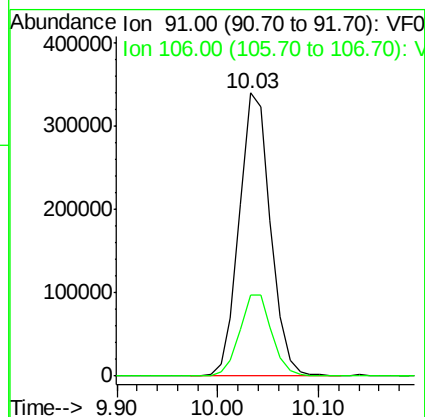
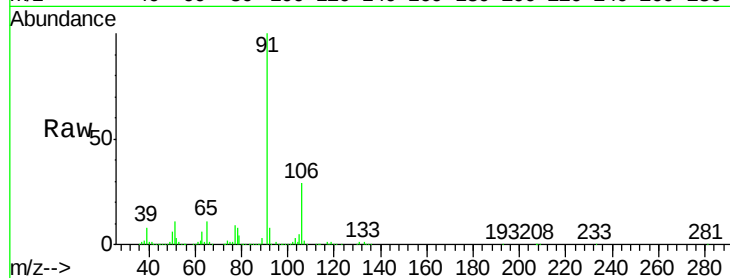
ClientSampleId :

Tot Ion: 91 Resp: 735884

Ion Ratio Lower Upper

91 100

106 28.8 23.4 35.2



#68

m/p-Xylenes

Concen: 100.86 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF059270.D

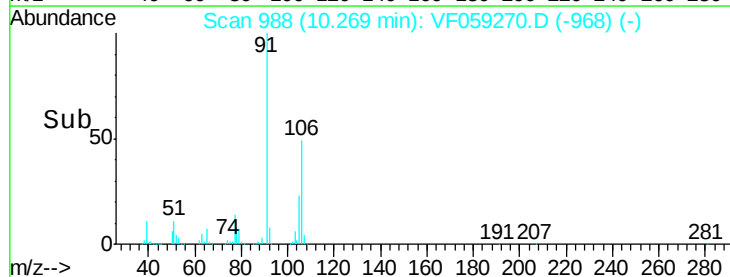
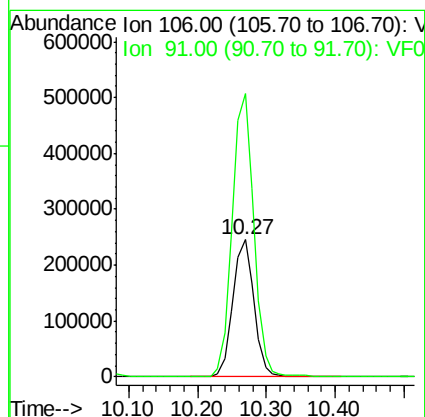
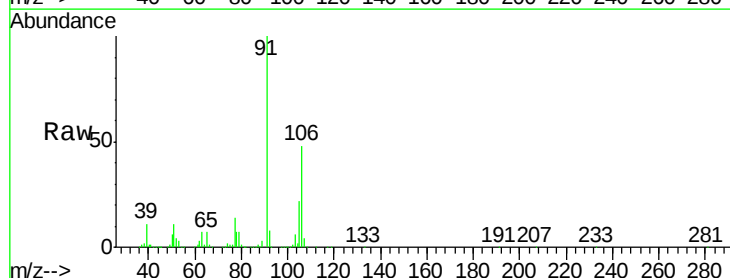
Acq: 21 Jun 2018 19:32

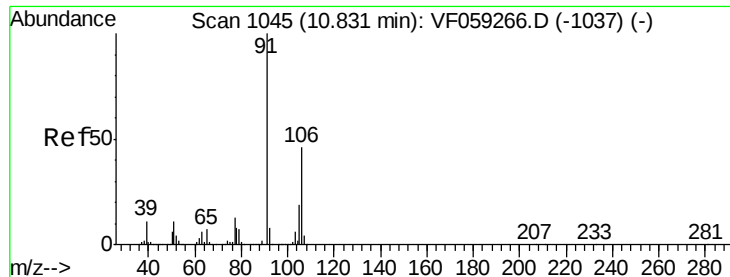
Tgt Ion: 106 Resp: 520436

Ion Ratio Lower Upper

106 100

91 206.5 168.8 253.2

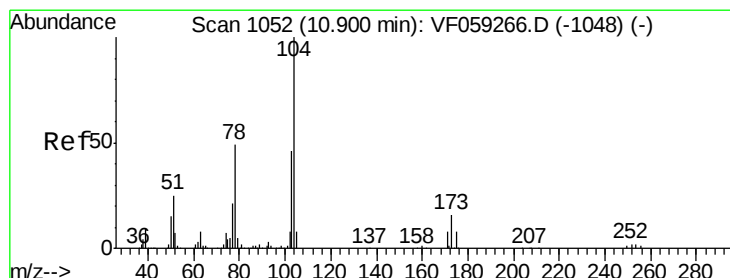
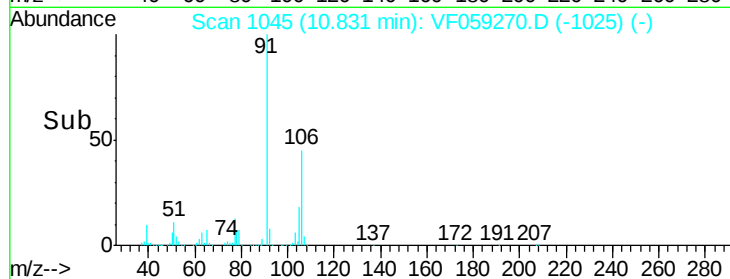
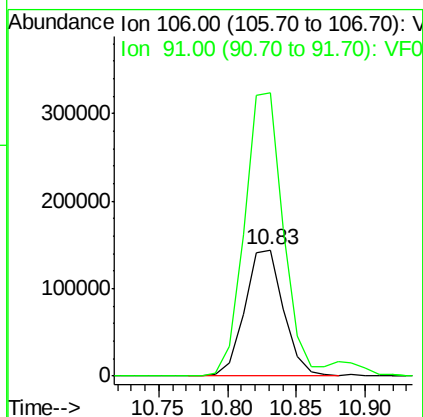
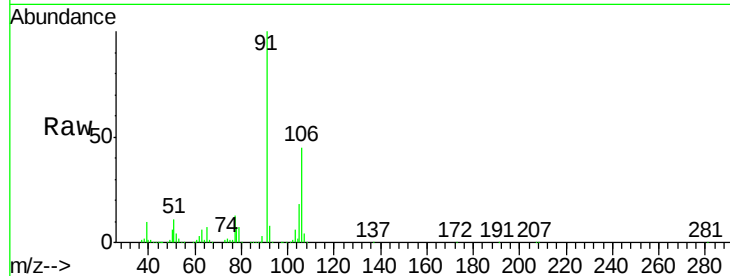




#69
o-Xylene
Concen: 49.76 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

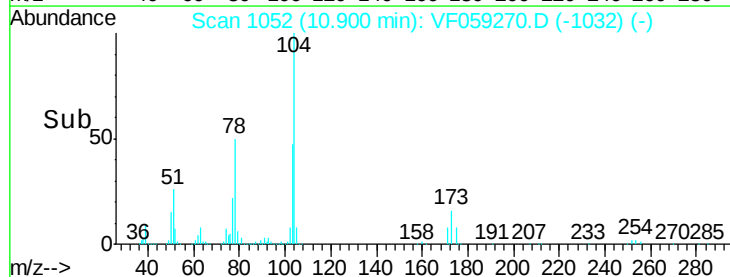
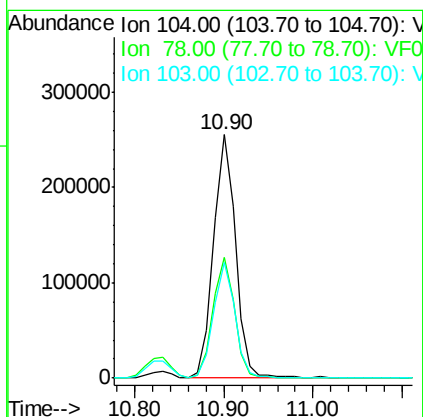
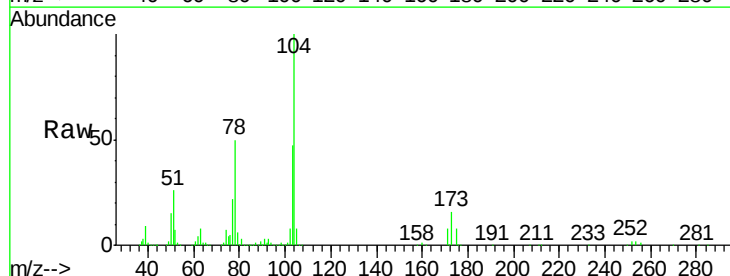
Instrument :
MSVOA_F
ClientSampled :

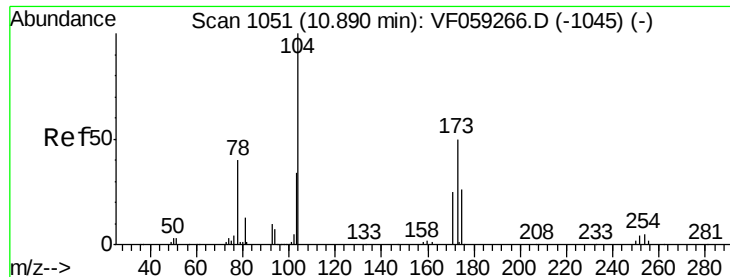
Tot Ion:106 Resp: 283607
Ion Ratio Lower Upper
106 100
91 224.4 109.1 327.4



#70
Styrene
Concen: 51.23 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VF059270.D
Acq: 21 Jun 2018 19:32

Tgt Ion:104 Resp: 440151
Ion Ratio Lower Upper
104 100
78 49.7 39.3 58.9
103 47.3 36.6 55.0





#71

Bromoform

Concen: 51.41 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampled :

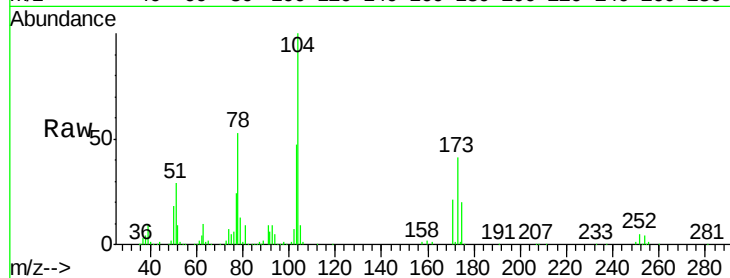
Tot Ion:173 Resp: 129160

Ion Ratio Lower Upper

173 100

175 49.6 25.4 76.4

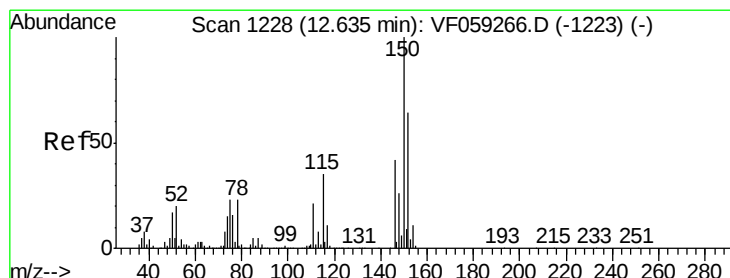
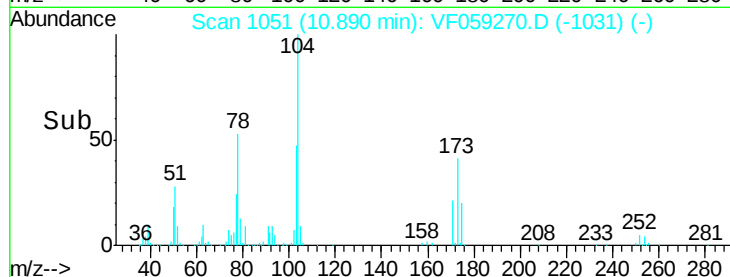
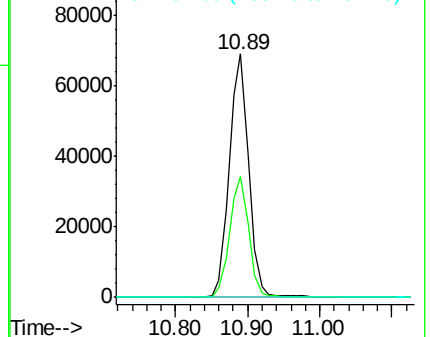
254 0.2 0.0 0.0#



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: 12.63 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

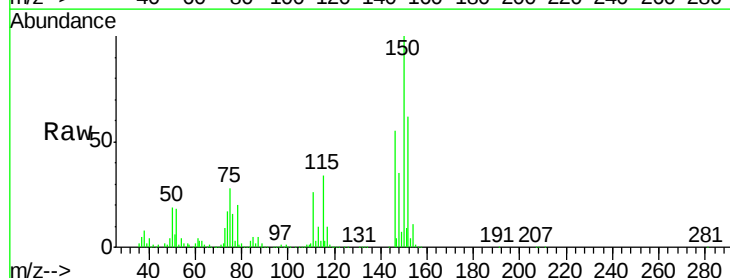
Tgt Ion:152 Resp: 238481

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.3

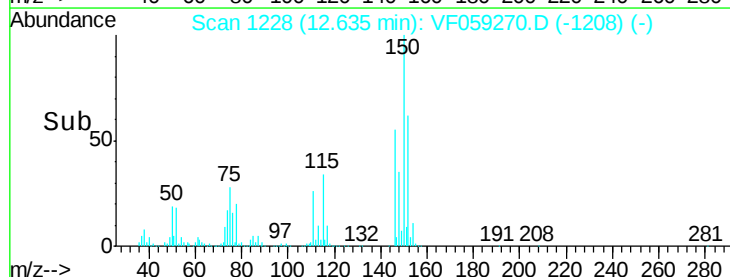
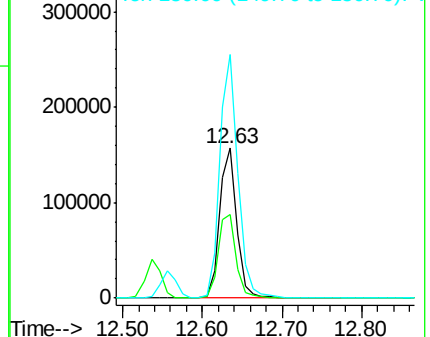
150 162.5 0.0 313.8

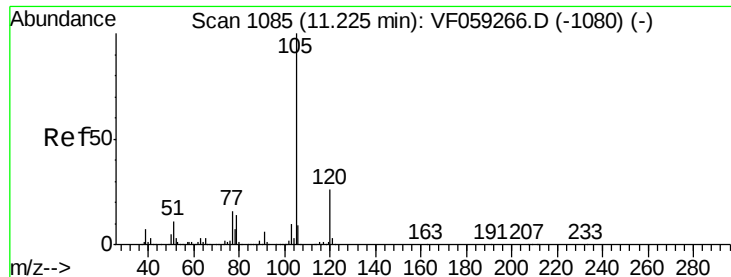


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 51.85 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

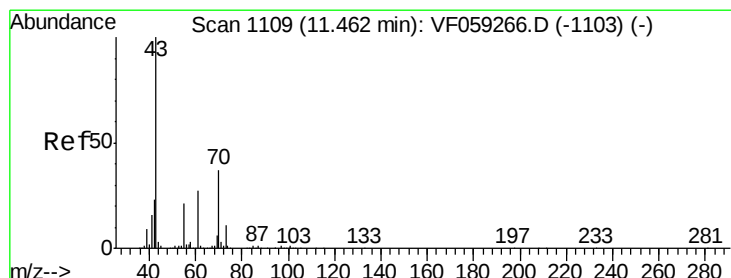
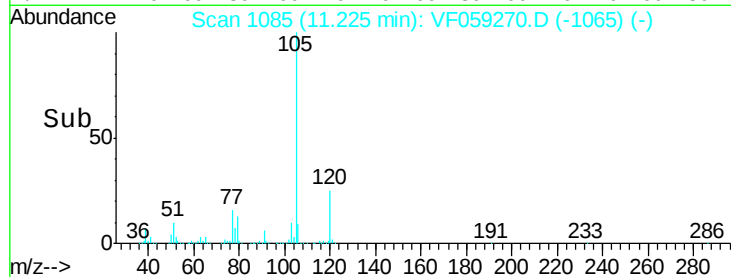
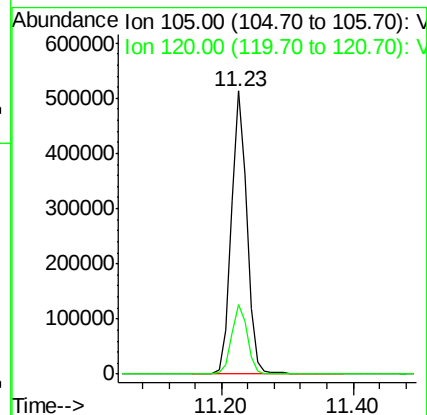
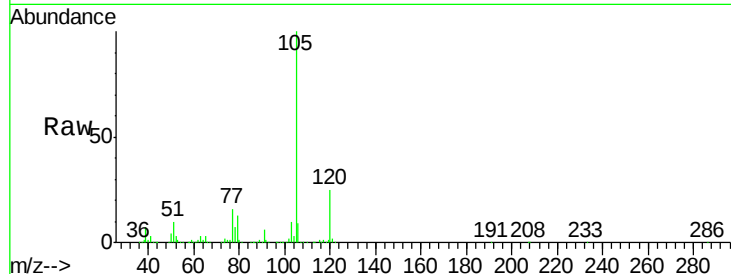
ClientSampled :

Tot Ion: 105 Resp: 851748

Ion Ratio Lower Upper

105 100

120 24.8 12.9 38.7



#74

N-ethyl acetate

Concen: 58.45 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Tgt Ion: 43 Resp: 313531

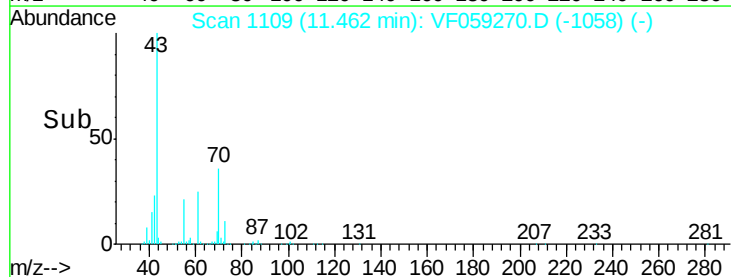
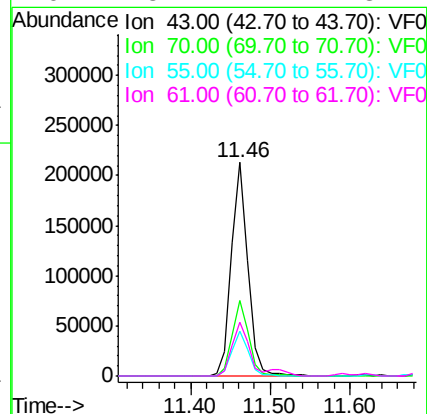
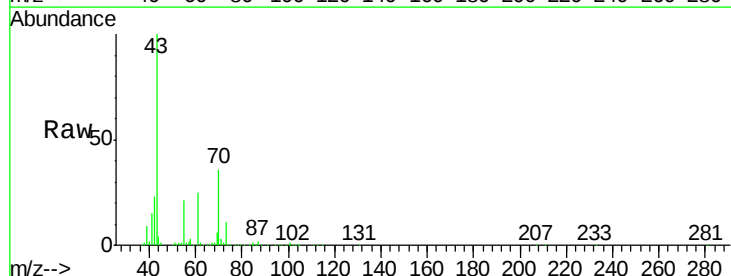
Ion Ratio Lower Upper

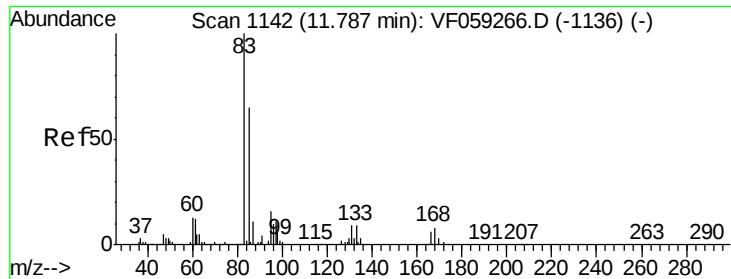
43 100

70 35.6 29.6 44.4

55 20.7 17.0 25.4

61 25.2 21.4 32.2





#75

1,1,2,2-Tetrachloroethane

Concen: 51.91 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

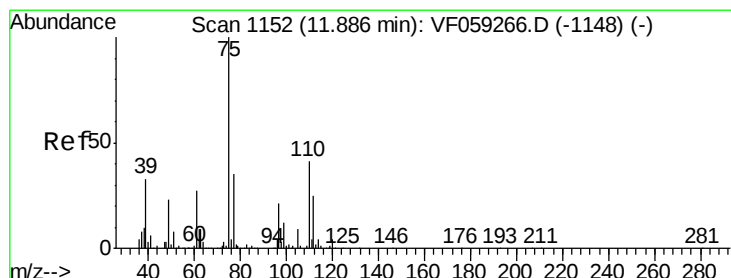
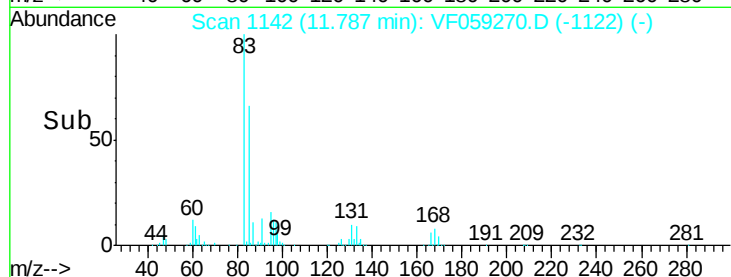
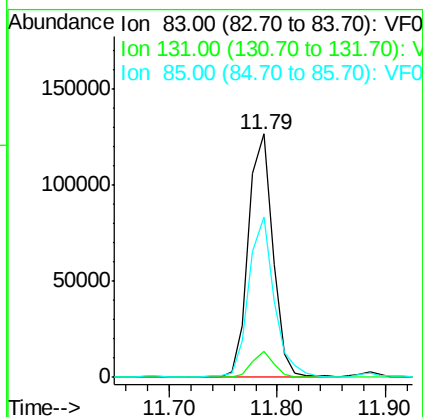
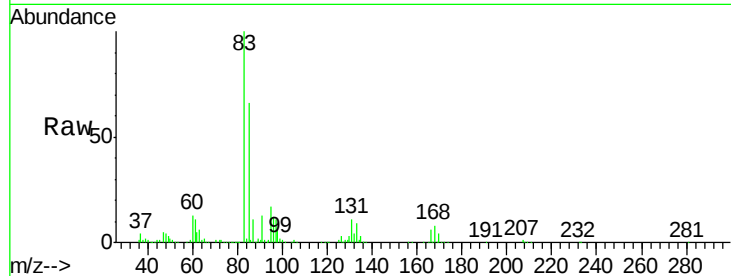
Tot Ion: 83 Resp: 200105

Ion Ratio Lower Upper

83 100

131 10.6 4.8 14.3

85 66.0 32.4 97.2



#76

1,2,3-Trichloropropane

Concen: 53.26 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF059270.D

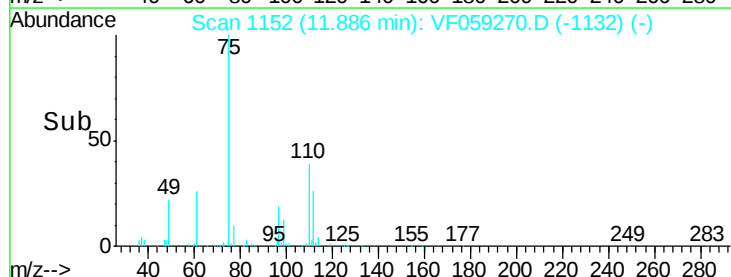
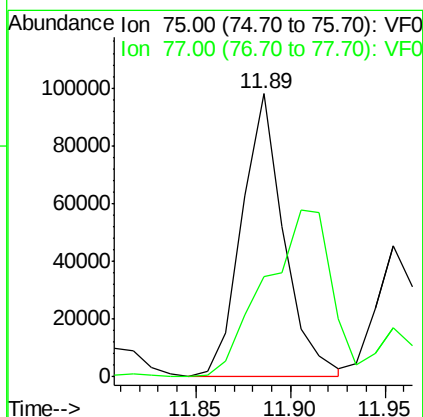
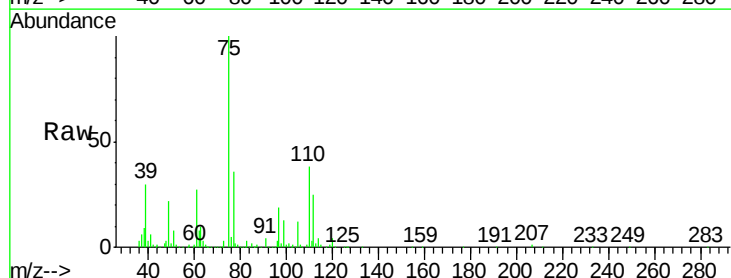
Acq: 21 Jun 2018 19:32

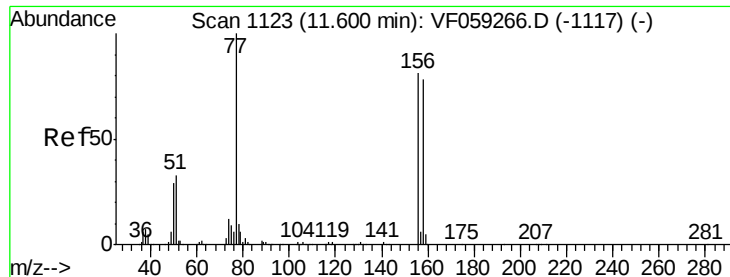
Tgt Ion: 75 Resp: 150309

Ion Ratio Lower Upper

75 100

77 35.6 17.4 52.2





#77

Bromobenzene

Concen: 50.38 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampled :

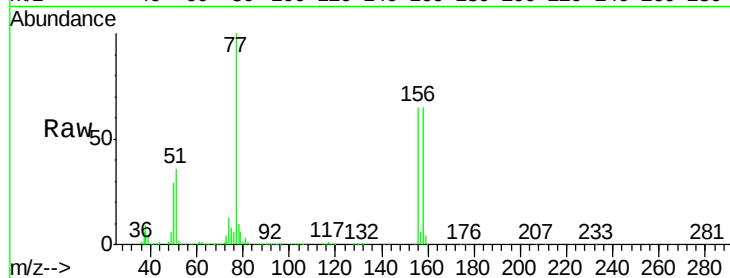
Tot Ion:156 Resp: 223581

Ion Ratio Lower Upper

156 100

77 153.1 61.7 185.0

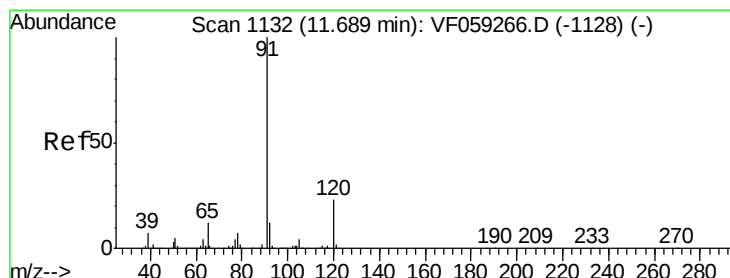
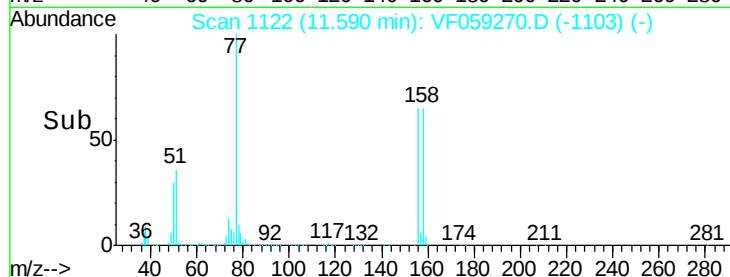
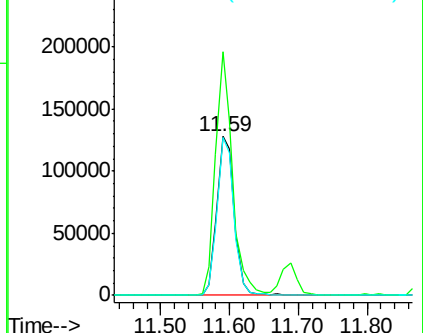
158 99.4 48.2 144.6



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: 49.35 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF059270.D

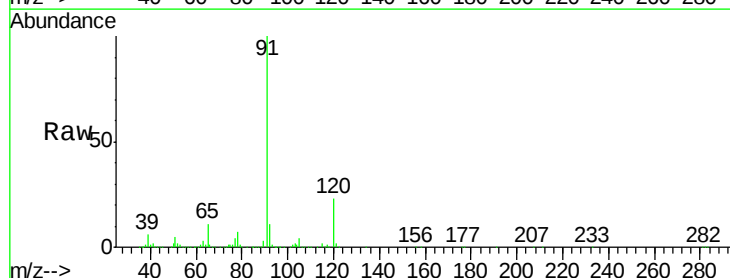
Acq: 21 Jun 2018 19:32

Tgt Ion: 91 Resp: 959191

Ion Ratio Lower Upper

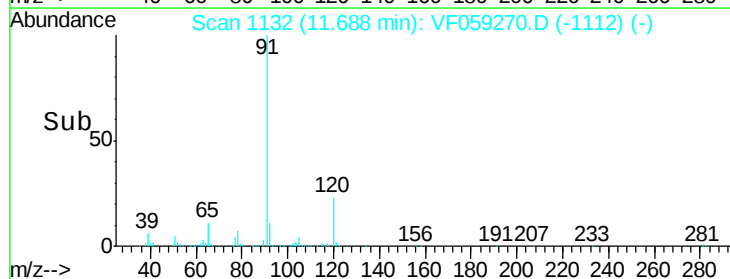
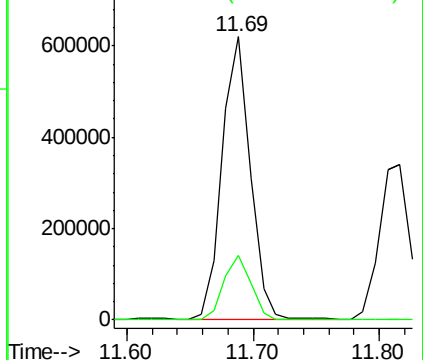
91 100

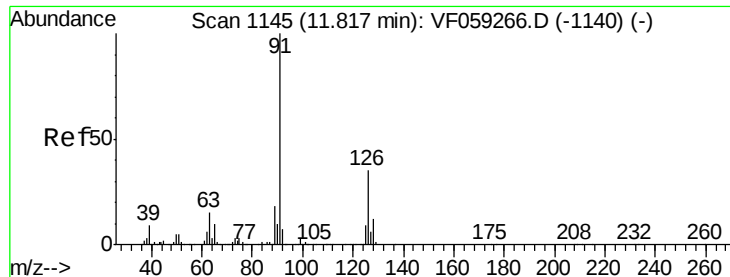
120 22.9 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 48.91 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

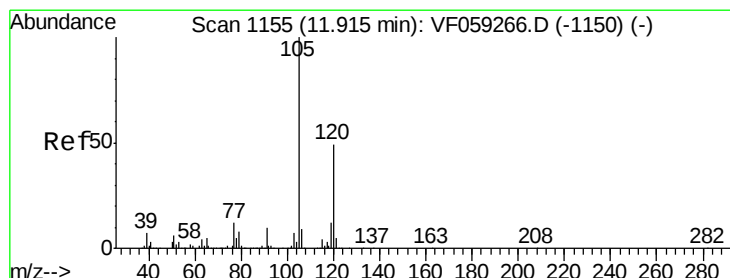
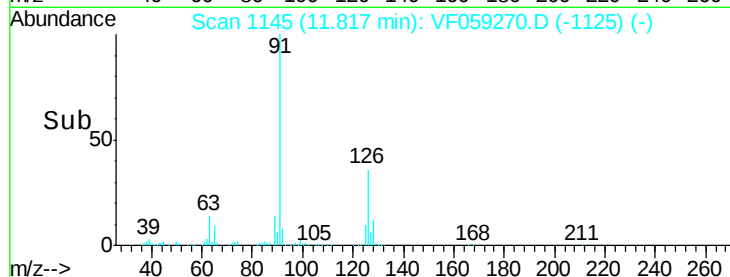
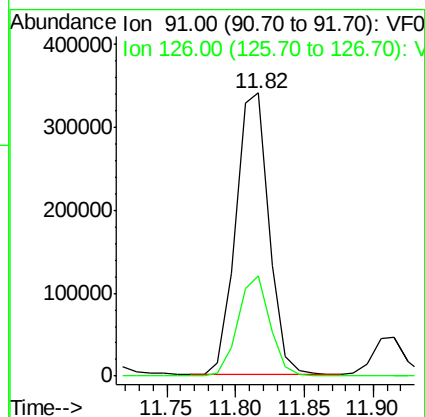
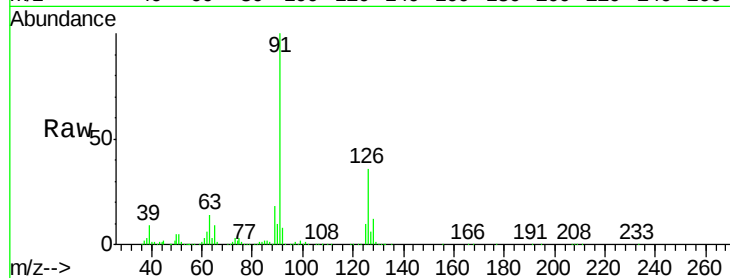
ClientSampled :

Tot Ion: 91 Resp: 569988

Ion Ratio Lower Upper

91 100

126 35.7 17.5 52.5



#80

1,3,5-Trimethylbenzene

Concen: 50.73 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VF059270.D

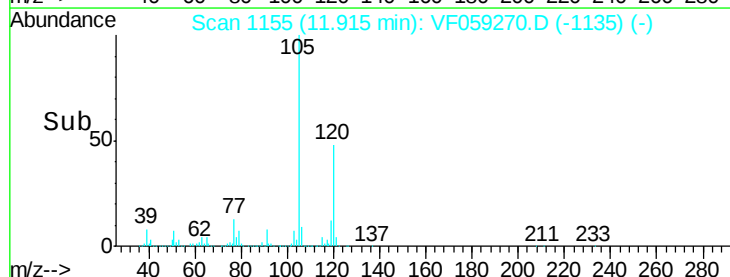
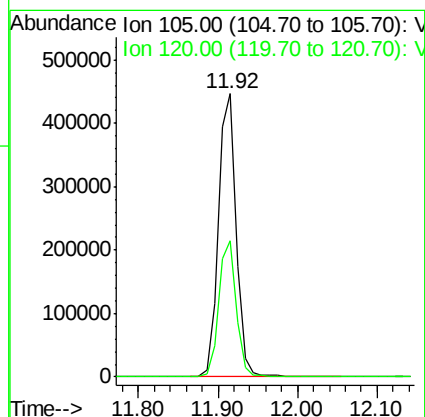
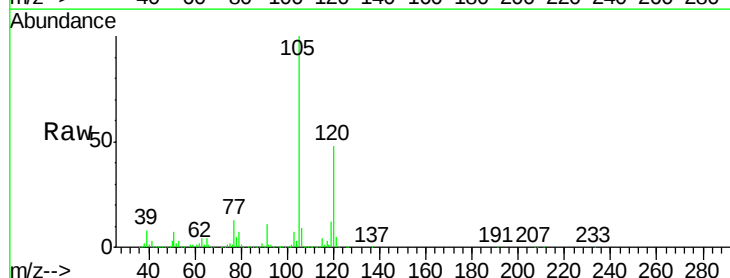
Acq: 21 Jun 2018 19:32

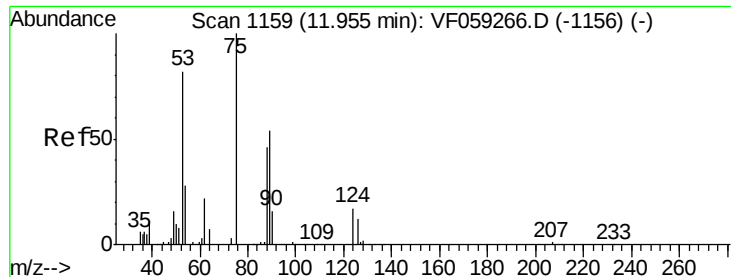
Tgt Ion: 105 Resp: 704572

Ion Ratio Lower Upper

105 100

120 48.3 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 49.16 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

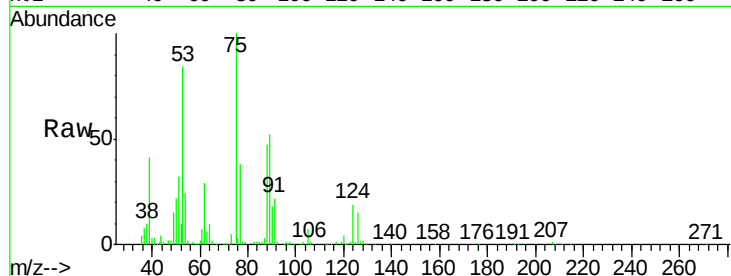
Tot Ion: 75 Resp: 88853

Ion Ratio Lower Upper

75 100

53 83.7 70.2 105.2

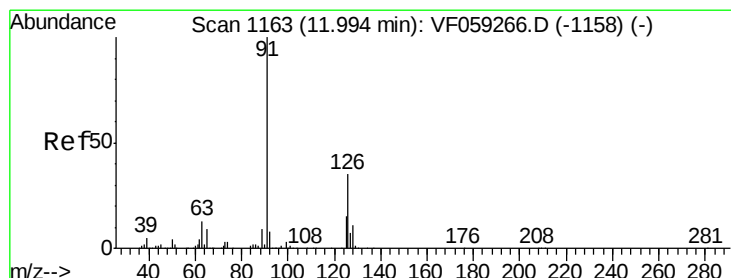
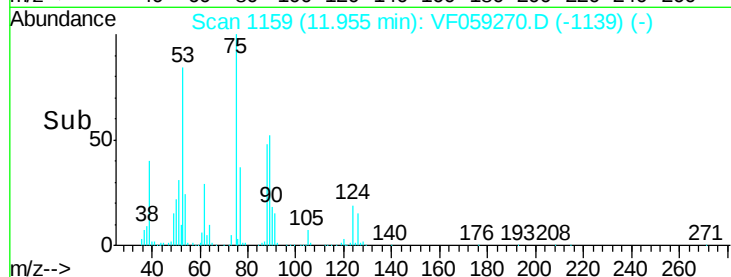
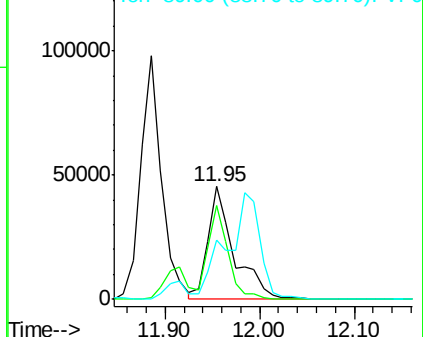
89 52.1 45.3 67.9



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: 49.30 ug/l

RT: 11.98 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VF059270.D

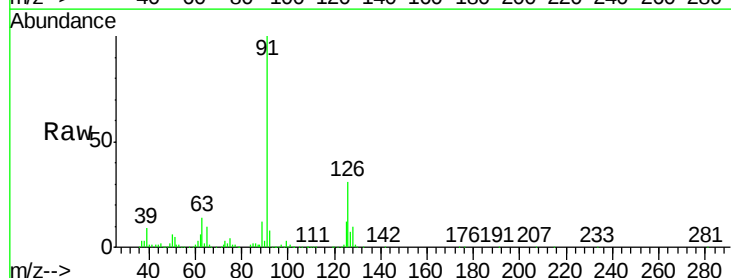
Acq: 21 Jun 2018 19:32

Tgt Ion: 91 Resp: 617168

Ion Ratio Lower Upper

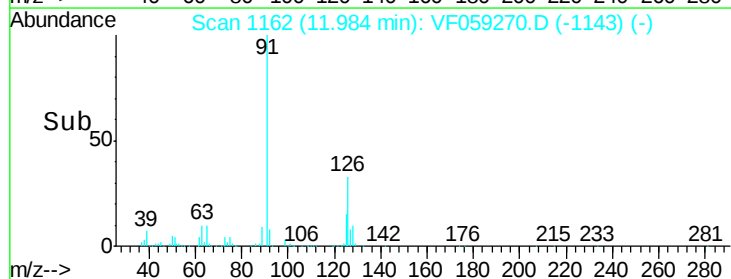
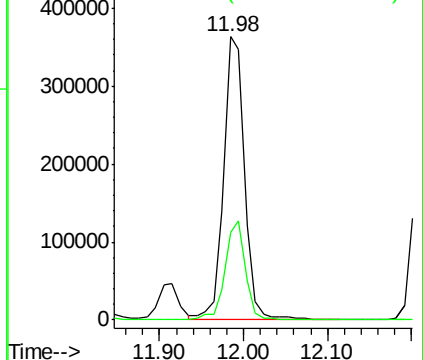
91 100

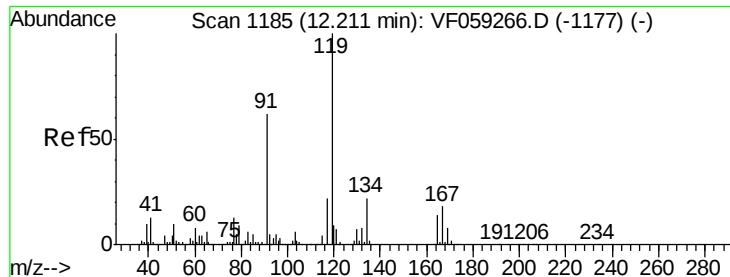
126 31.0 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 49.72 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

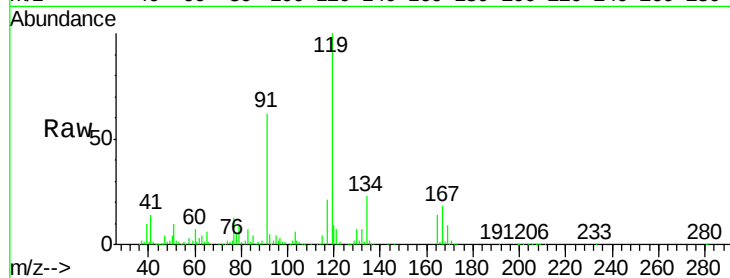
Tot Ion:119 Resp: 698975

Ion Ratio Lower Upper

119 100

91 62.1 31.3 93.8

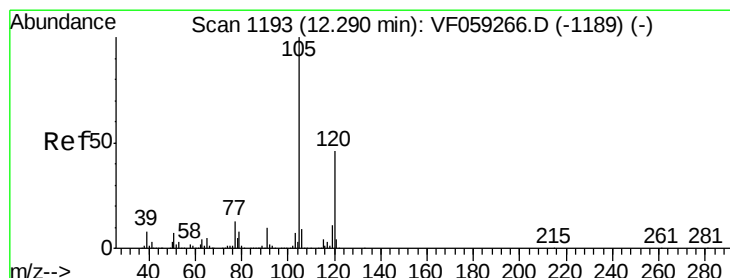
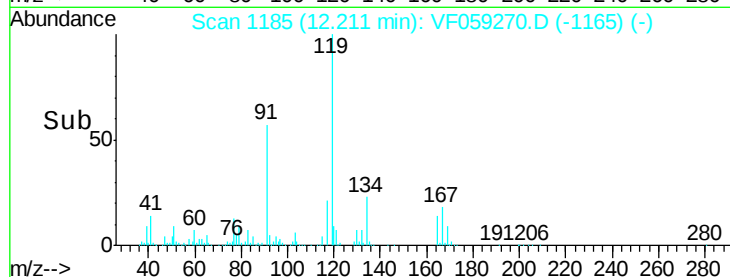
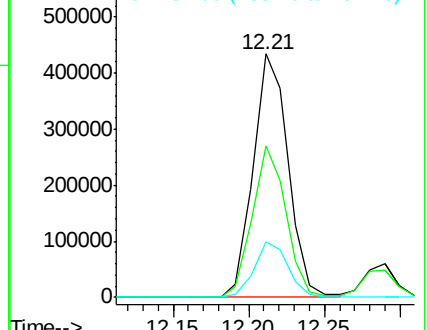
134 22.7 11.3 33.8



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: 48.41 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. -0.00 min

Lab File: VF059270.D

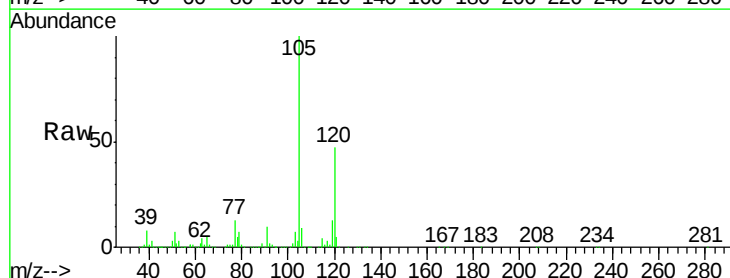
Acq: 21 Jun 2018 19:32

Tgt Ion:105 Resp: 708168

Ion Ratio Lower Upper

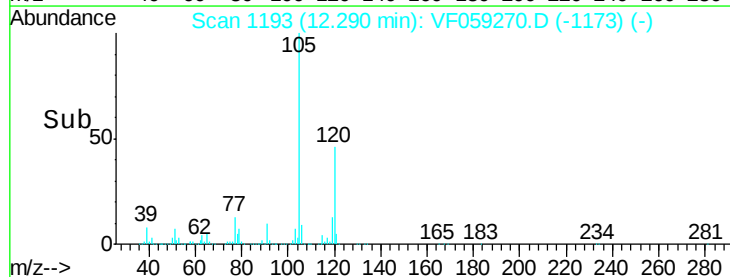
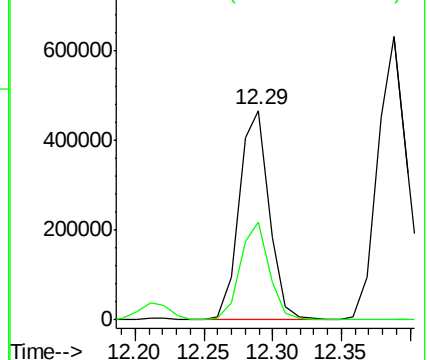
105 100

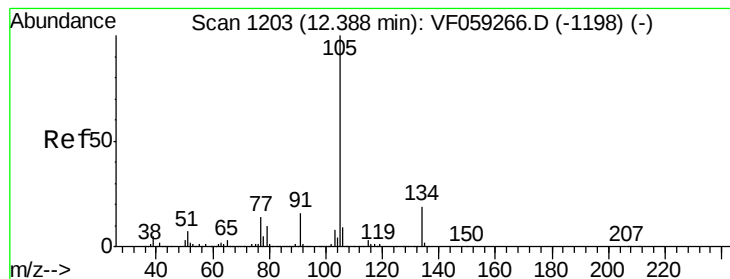
120 46.5 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 49.98 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

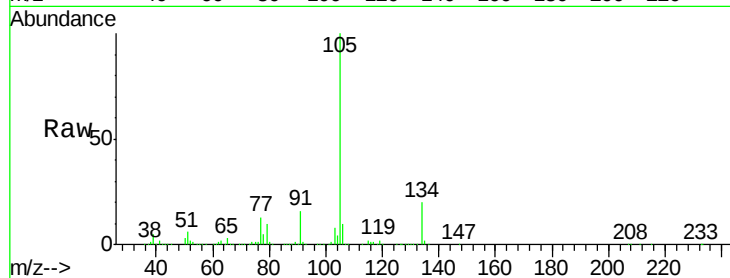
ClientSampleId :

Tot Ion:105 Resp: 937683

Ion Ratio Lower Upper

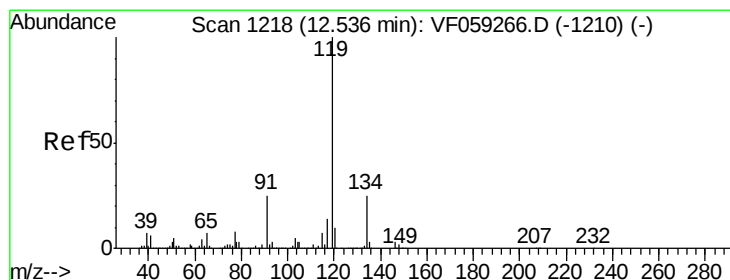
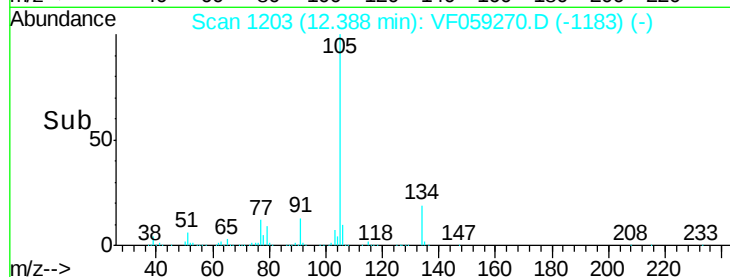
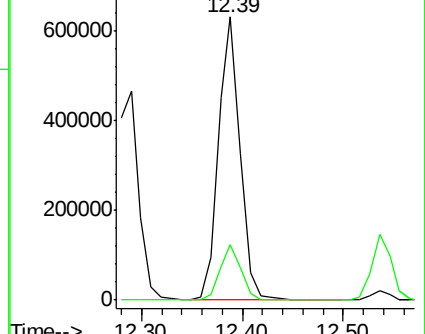
105 100

134 19.7 9.5 28.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.80 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

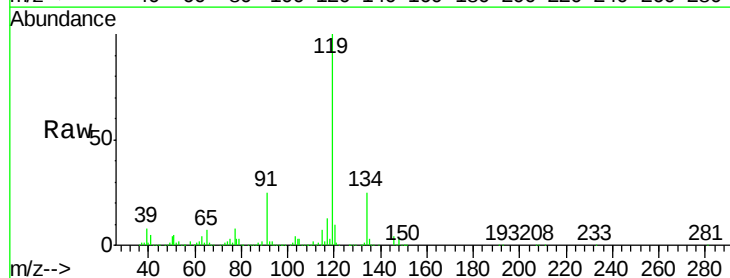
Tgt Ion:119 Resp: 801207

Ion Ratio Lower Upper

119 100

134 25.0 12.6 37.8

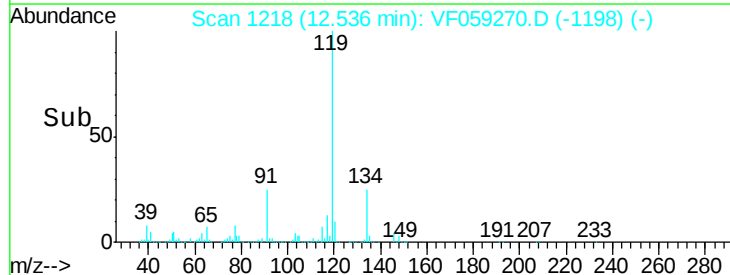
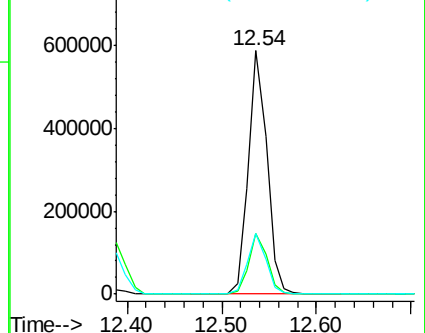
91 24.7 12.6 37.8

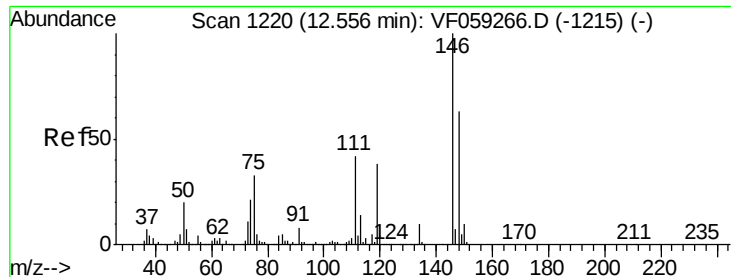


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 49.23 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

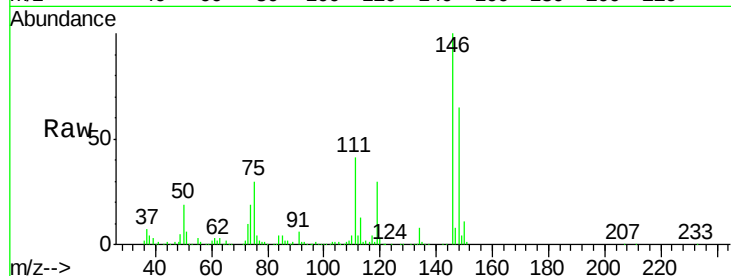
Tot Ion:146 Resp: 391773

Ion Ratio Lower Upper

146 100

111 41.4 21.0 63.0

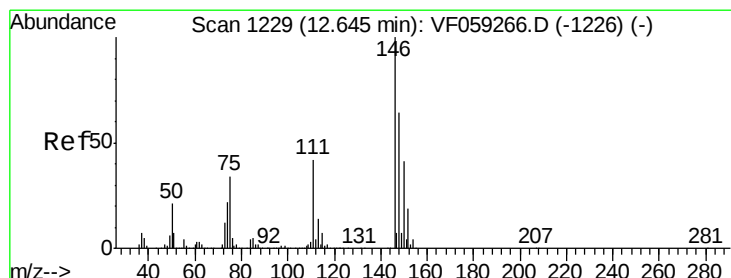
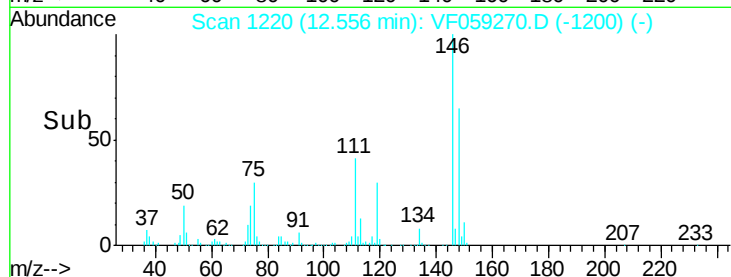
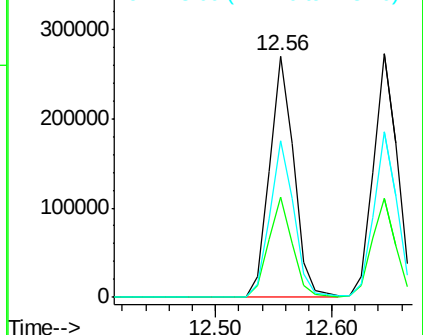
148 64.9 31.6 94.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 50.47 ug/l

RT: 12.64 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

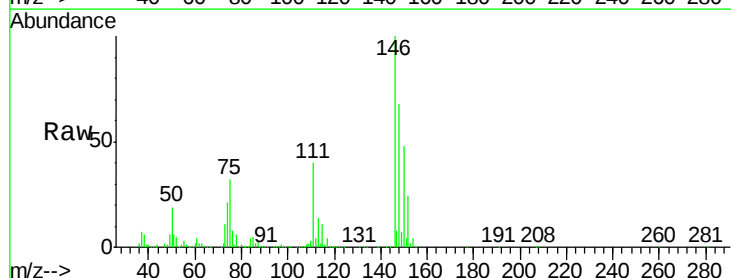
Tgt Ion:146 Resp: 396658

Ion Ratio Lower Upper

146 100

111 40.5 21.3 63.9

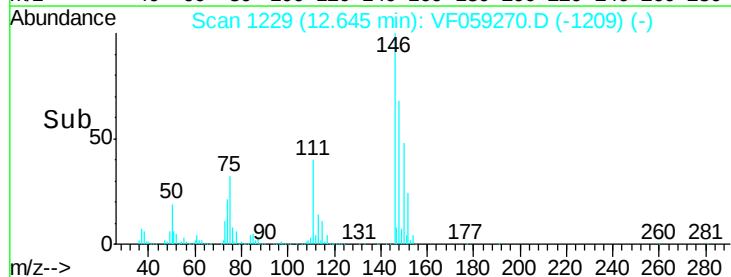
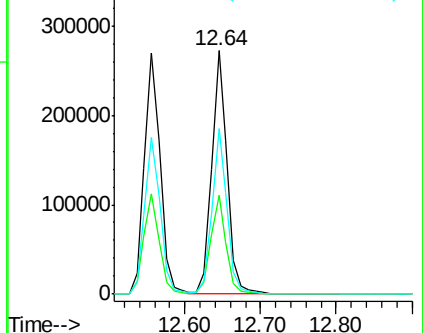
148 67.7 32.0 96.2

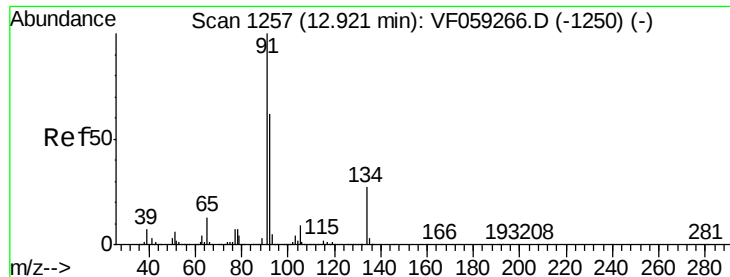


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 50.18 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

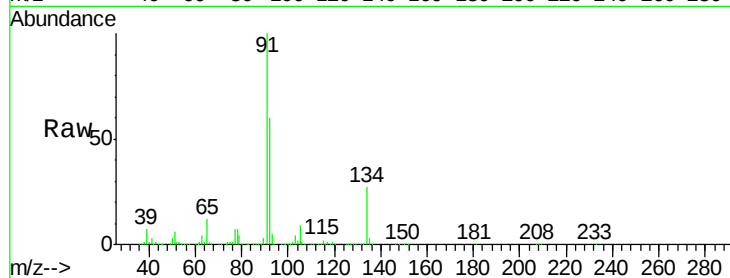
Tot Ion: 91 Resp: 790376

Ion Ratio Lower Upper

91 100

92 59.9 31.2 93.6

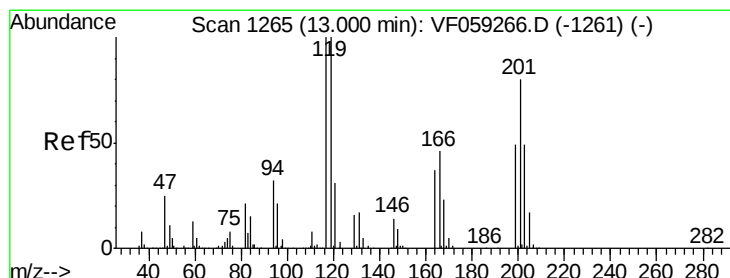
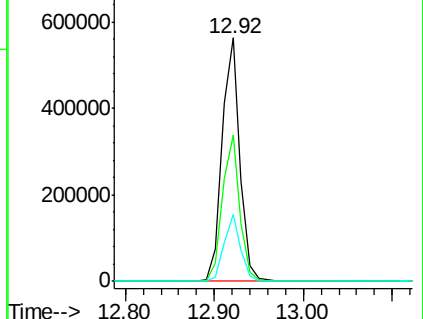
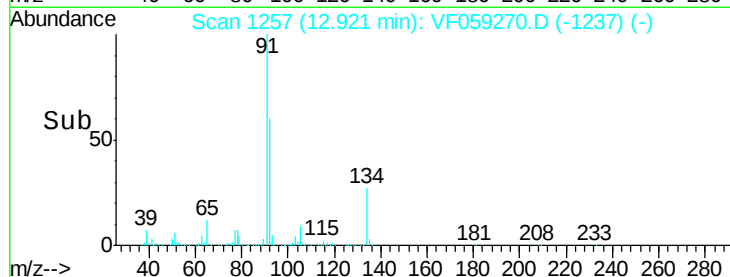
134 27.4 13.4 40.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 49.02 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VF059270.D

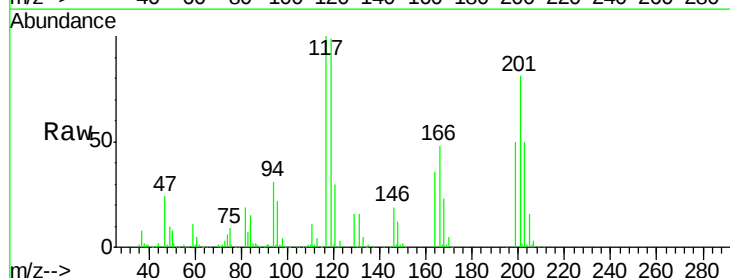
Acq: 21 Jun 2018 19:32

Tgt Ion: 117 Resp: 189546

Ion Ratio Lower Upper

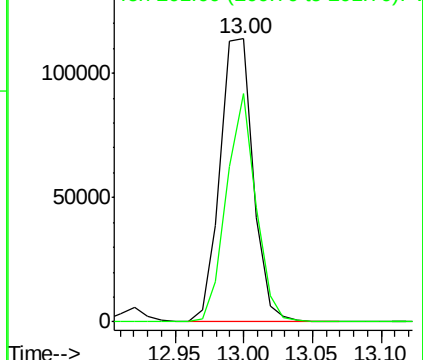
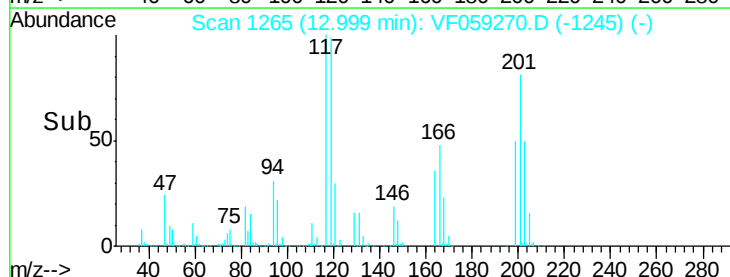
117 100

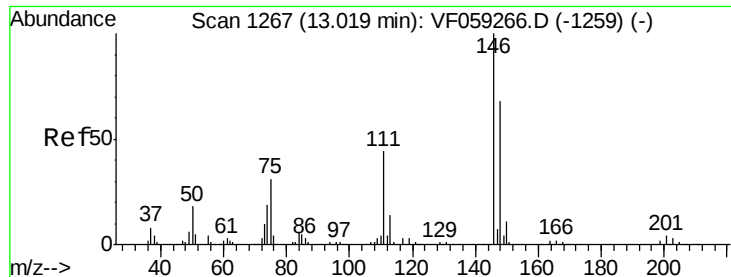
201 80.7 39.8 119.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 49.32 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

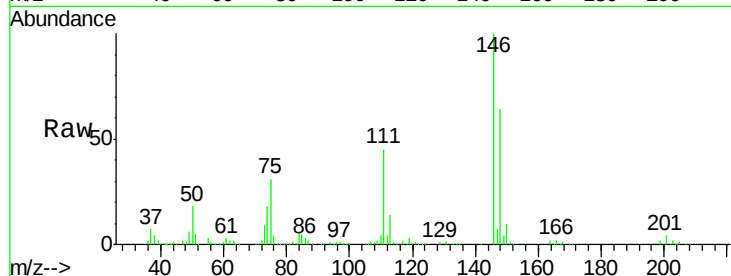
Tot Ion:146 Resp: 389254

Ion Ratio Lower Upper

146 100

111 44.7 22.1 66.3

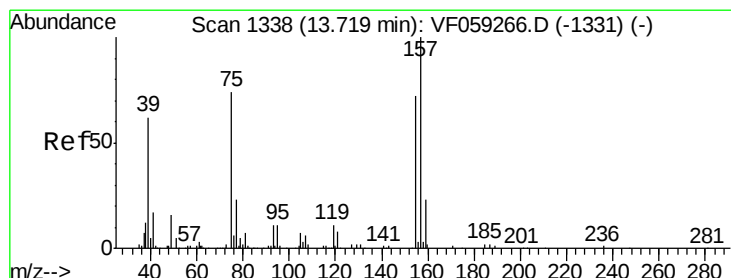
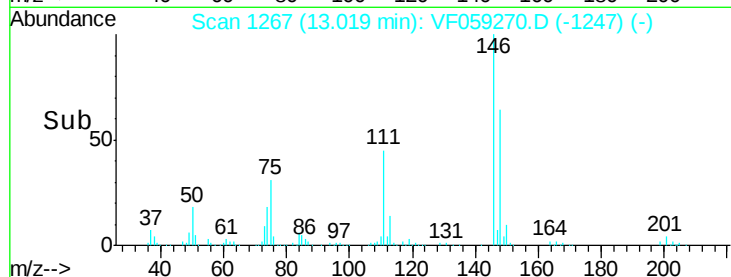
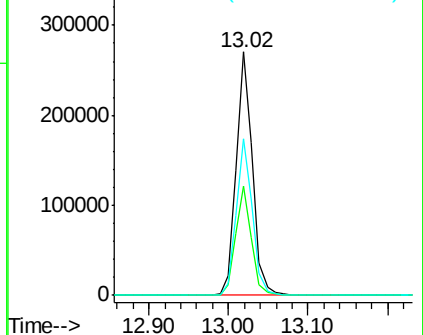
148 64.2 34.0 102.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 50.00 ug/l

RT: 13.72 min Scan# 1338

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

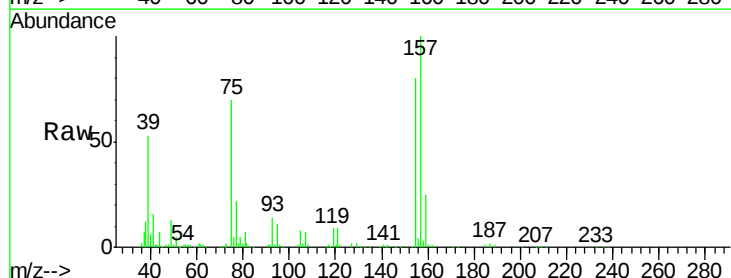
Tgt Ion: 75 Resp: 41619

Ion Ratio Lower Upper

75 100

155 113.5 48.3 144.9

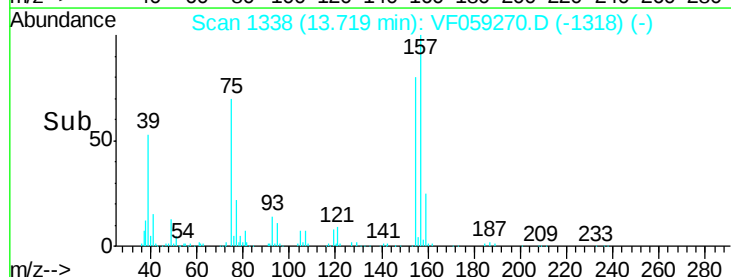
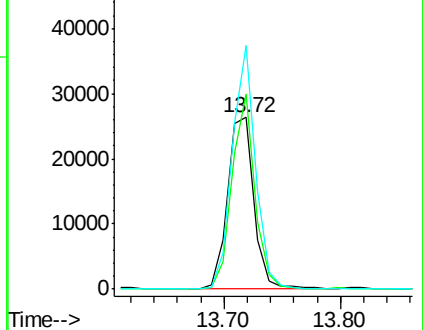
157 141.9 67.2 201.6

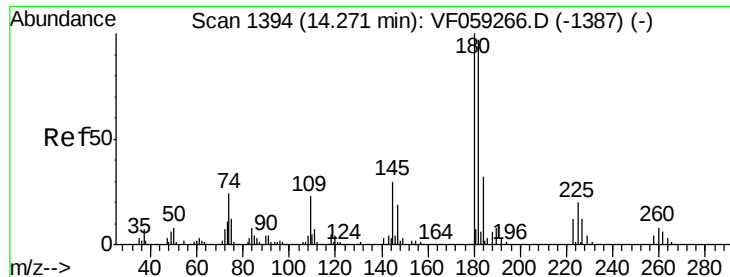


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

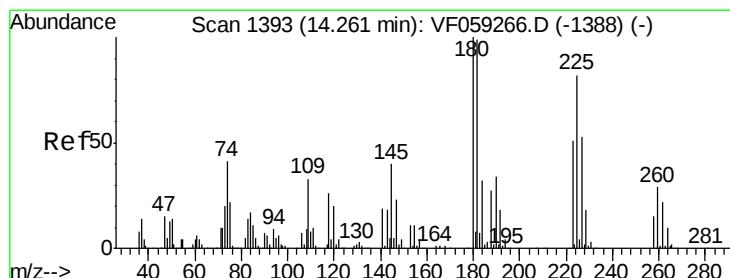
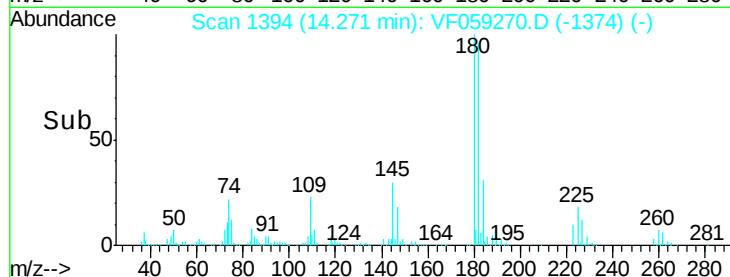
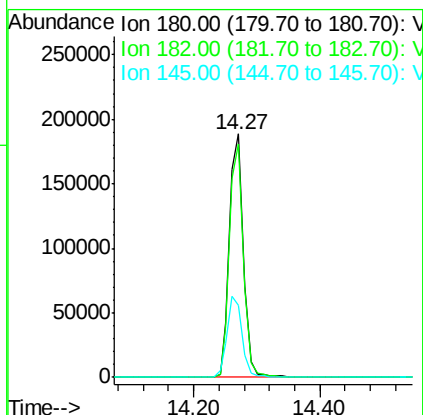
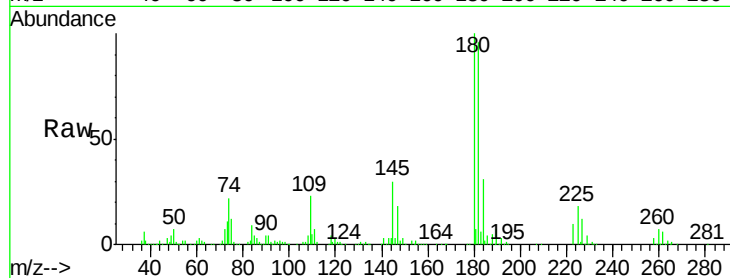




#93
 1,2,4-Trichlorobenzene
 Concen: 50.20 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF059270.D
 Acq: 21 Jun 2018 19:32

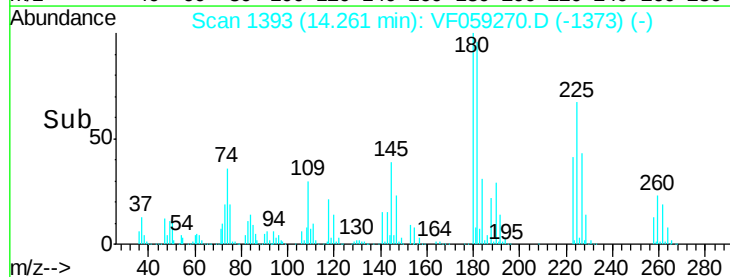
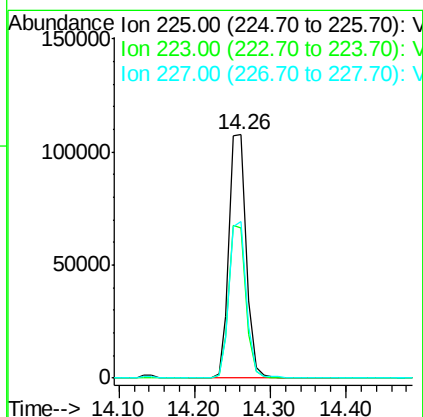
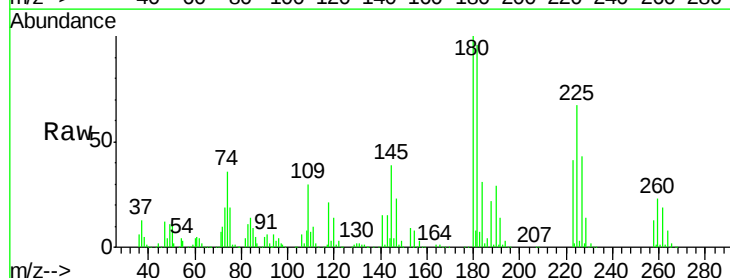
Instrument :
 MSVOA_F
 ClientSampleId :

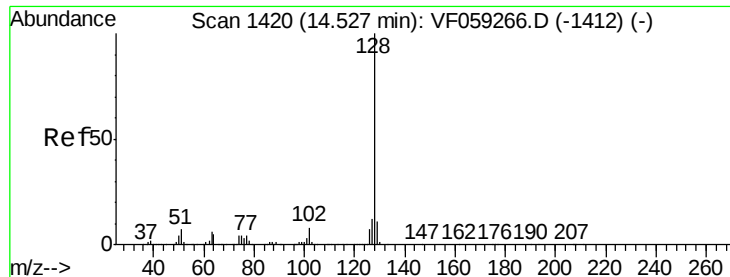
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.6	145.9
145	29.8	15.0	45.1



#94
 Hexachlorobutadiene
 Concen: 49.68 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF059270.D
 Acq: 21 Jun 2018 19:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.7	30.7	92.1
227	64.4	32.0	96.2





#95

Naphthalene

Concen: 54.52 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

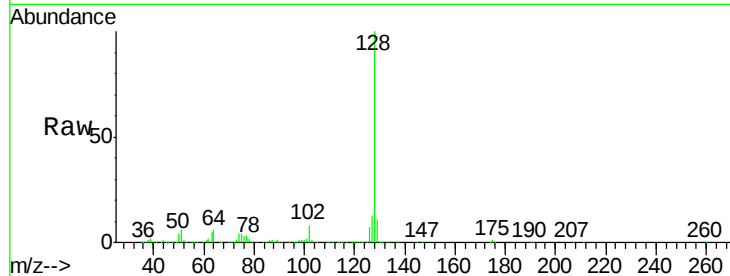
Tot Ion:128 Resp: 645377

Ion Ratio Lower Upper

128 100

127 12.5 9.6 14.4

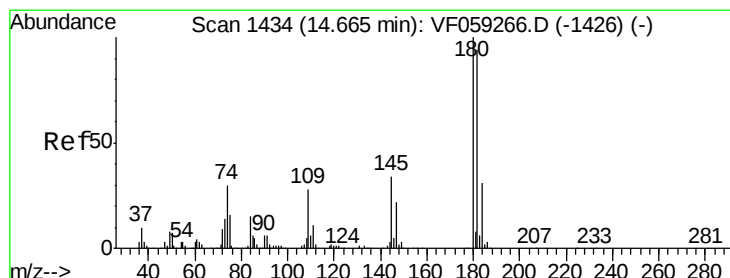
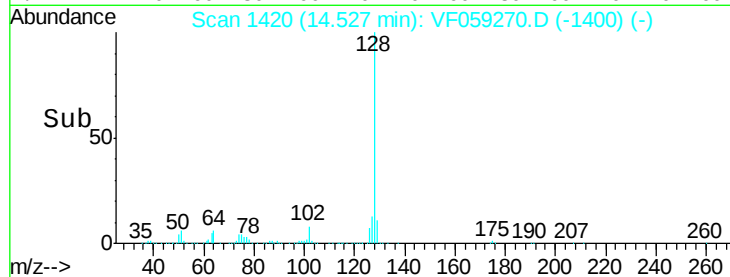
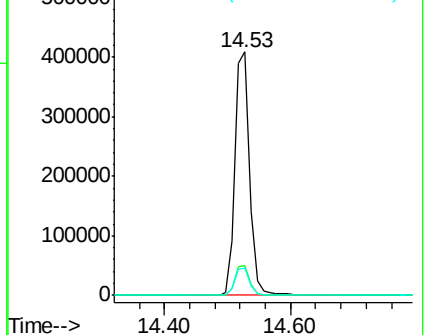
129 11.4 9.0 13.4



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: 52.83 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VF059270.D

Acq: 21 Jun 2018 19:32

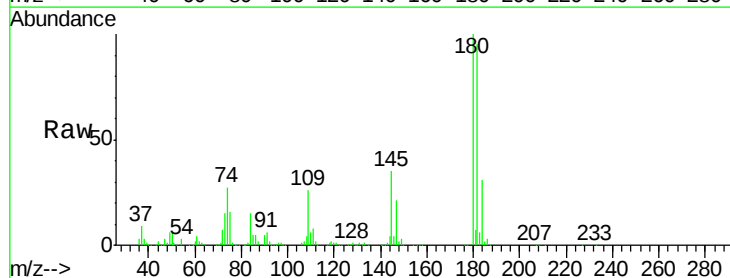
Tgt Ion:180 Resp: 286563

Ion Ratio Lower Upper

180 100

182 94.9 46.9 140.7

145 34.7 17.0 50.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

