

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF040419\
 Data File : VF062160.D
 Acq On : 4 Apr 2019 16:37
 Operator : FY/SY
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Quant Time: Apr 05 04:52:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F040419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 04:46:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	211823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.57	114	329601	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.75	117	266358	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	139613	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	46450	26.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	53.24%	
35) Dibromofluoromethane	4.09	113	48699	21.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.86%	
50) Toluene-d8	7.52	98	134850	20.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.06%	
62) 4-Bromofluorobenzene	11.39	95	54786	20.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.78%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	67833	24.589	ug/l	97
3) Chloromethane	1.08	50	54545	19.567	ug/l #	68
4) Vinyl Chloride	1.13	62	57018	21.958	ug/l	95
5) Bromomethane	1.34	94	43173	22.783	ug/l	93
6) Chloroethane	1.38	64	28643	21.512	ug/l	90
7) Trichlorofluoromethane	1.48	101	76644	23.631	ug/l	97
8) Diethyl Ether	1.63	74	14663	20.365	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.83	101	47523	22.059	ug/l	96
10) Methyl Iodide	1.83	142	14959	3.665	ug/l	90
11) Tert butyl alcohol	2.55	59	9608	107.230	ug/l #	84
12) 1,1-Dichloroethene	1.79	96	45952	22.519	ug/l	84
13) Acrolein	1.99	56	11986	113.363	ug/l	83
14) Allyl chloride	2.08	41	58815	25.802	ug/l	92
15) Acrylonitrile	2.93	53	29363	96.210	ug/l #	92
16) Acetone	2.23	43	45490	127.016	ug/l	98
17) Carbon Disulfide	1.82	76	144174	23.097	ug/l	96
18) Methyl Acetate	2.33	43	19528	23.688	ug/l	92
19) Methyl tert-butyl Ether	2.41	73	81987	24.603	ug/l	97
20) Methylene Chloride	2.17	84	14568	6.296	ug/l #	83
21) trans-1,2-Dichloroethene	2.30	96	39368	19.883	ug/l	95
22) Diisopropyl ether	2.78	45	130264	22.256	ug/l	95
23) Vinyl Acetate	3.16	43	304010	124.365	ug/l	96
24) 1,1-Dichloroethane	2.86	63	81041	23.115	ug/l	99
25) 2-Butanone	4.30	43	84493	119.321	ug/l #	85
26) 2,2-Dichloropropane	3.57	77	41146	27.697	ug/l	94
27) cis-1,2-Dichloroethene	3.45	96	52295	19.973	ug/l	93
28) Bromochloromethane	3.69	49	30946	21.027	ug/l	88
29) Tetrahydrofuran	4.04	42	34807	113.447	ug/l	96
30) Chloroform	3.83	83	96306	25.457	ug/l	90
31) Cyclohexane	3.67	56	78795	21.974	ug/l #	95
32) 1,1,1-Trichloroethane	4.08	97	68368	28.244	ug/l	89
36) 1,1-Dichloropropene	4.25	75	80842	25.182	ug/l	96
37) Ethyl Acetate	4.09	43	33614	24.110	ug/l	86
38) Carbon Tetrachloride	3.96	117	62907	28.159	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	80258	22.505	ug/l #	83
40) Benzene	4.61	78	171037	20.591	ug/l	97
41) Methacrylonitrile	4.73	41	16785	22.648	ug/l #	82
42) 1,2-Dichloroethane	4.91	62	66632	31.303	ug/l	98
43) Isopropyl Acetate	6.93	43	40140	24.186	ug/l #	99
44) Trichloroethene	5.48	130	53276	20.920	ug/l	83
45) 1,2-Dichloropropane	6.21	63	41387	20.732	ug/l	92
46) Dibromomethane	6.07	93	26661	21.581	ug/l	83
47) Bromodichloromethane	6.35	83	69880	24.735	ug/l	98
48) Methyl methacrylate	6.69	41	29661	29.681	ug/l #	89
49) 1,4-Dioxane	6.67	88	3053	377.548	ug/l #	56
51) 4-Methyl-2-Pentanone	8.23	43	140687	123.746	ug/l	92
52) Toluene	7.60	92	113013	23.070	ug/l	95
53) t-1,3-Dichloropropene	8.25	75	61379	27.445	ug/l	92
54) cis-1,3-Dichloropropene	7.28	75	72788	23.517	ug/l	90
55) 1,1,2-Trichloroethane	8.46	97	29923	21.753	ug/l #	92
56) Ethyl methacrylate	8.60	69	39694	23.719	ug/l	88
57) 1,3-Dichloropropane	8.82	76	50128	21.969	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.27	63	27331	108.753	ug/l	98
59) 2-Hexanone	9.46	43	100146	121.007	ug/l	94
60) Dibromochloromethane	8.70	129	45718	23.590	ug/l	96
61) 1,2-Dibromoethane	8.96	107	30649	20.907	ug/l	91
64) Tetrachloroethene	8.13	164	43661	21.283	ug/l	93
65) Chlorobenzene	9.77	112	108690	21.613	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.91	131	50480	24.598	ug/l	94
67) Ethyl Benzene	9.88	91	217383	24.300	ug/l	99
68) m/p-Xylenes	10.10	106	158069	47.486	ug/l	93
69) o-Xylene	10.70	106	78148	22.919	ug/l	97
70) Styrene	10.76	104	116541	22.139	ug/l	99
71) Bromoform	10.75	173	25546	24.243	ug/l	90
73) Isopropylbenzene	11.11	105	244056	24.452	ug/l	94
74) N-amyl acetate	11.36	43	58597	24.197	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.68	83	36989	22.050	ug/l	93
76) 1,2,3-Trichloropropane	11.78	75	27606	22.610	ug/l	81
77) Bromobenzene	11.47	156	51534	21.426	ug/l	94
78) n-propylbenzene	11.57	91	272361	23.213	ug/l	97
79) 2-Chlorotoluene	11.70	91	163427	25.129	ug/l	96
80) 1,3,5-Trimethylbenzene	11.81	105	200777	24.059	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.85	75	16865	33.668	ug/l	91
82) 4-Chlorotoluene	11.88	91	167610	24.828	ug/l	97
83) tert-Butylbenzene	12.11	119	199393	23.038	ug/l	98
84) 1,2,4-Trimethylbenzene	12.18	105	208125	25.500	ug/l	98
85) sec-Butylbenzene	12.29	105	254674	22.841	ug/l	100
86) p-Isopropyltoluene	12.44	119	234921	23.907	ug/l	95
87) 1,3-Dichlorobenzene	12.46	146	92509	20.382	ug/l	92
88) 1,4-Dichlorobenzene	12.55	146	102624	23.467	ug/l	96
89) n-Butylbenzene	12.82	91	234095	25.115	ug/l	97
90) Hexachloroethane	12.90	117	54655	23.824	ug/l	97
91) 1,2-Dichlorobenzene	12.92	146	90740	21.582	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7675	28.759	ug/l	84

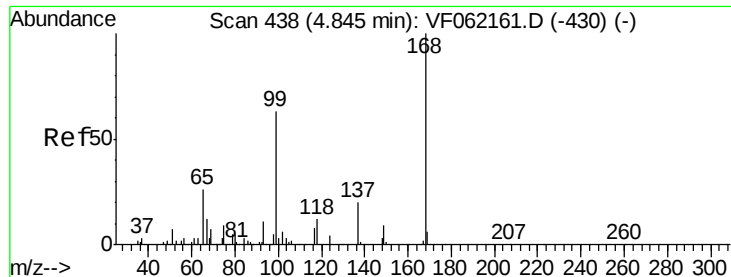
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF040419\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	64449	21.762	ug/l	99
94) Hexachlorobutadiene	14.17	225	42862	21.911	ug/l	93
95) Naphthalene	14.44	128	103894	20.505	ug/l	96
96) 1,2,3-Trichlorobenzene	14.59	180	55623	20.484	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 438

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

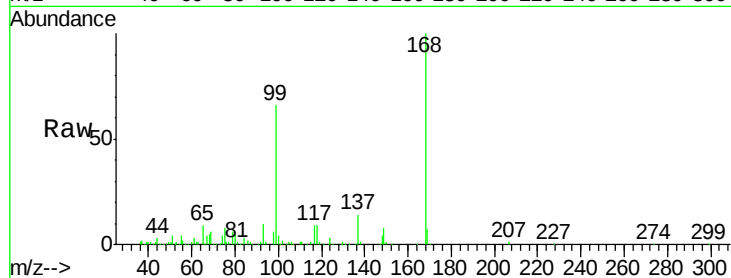
VSTDIC020

Tgt Ion:168 Resp: 211823

Ion Ratio Lower Upper

168 100

99 66.2 50.5 75.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

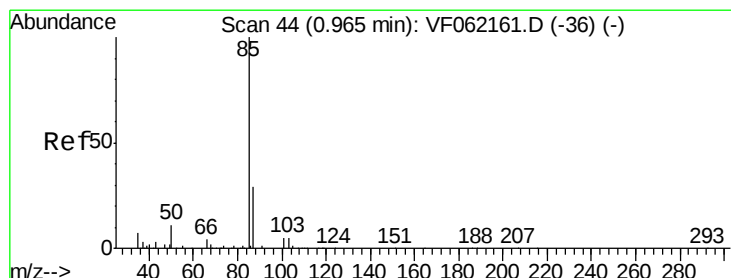
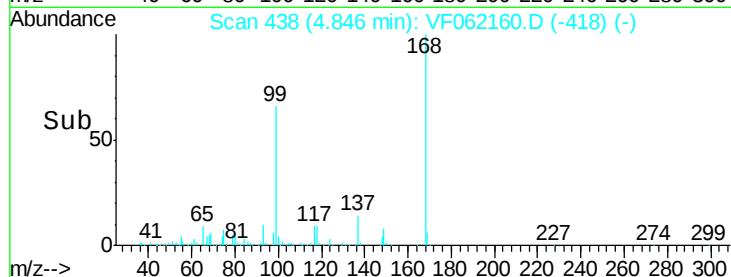
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 24.589 ug/l

RT: 0.96 min Scan# 43

Delta R.T. -0.01 min

Lab File: VF062160.D

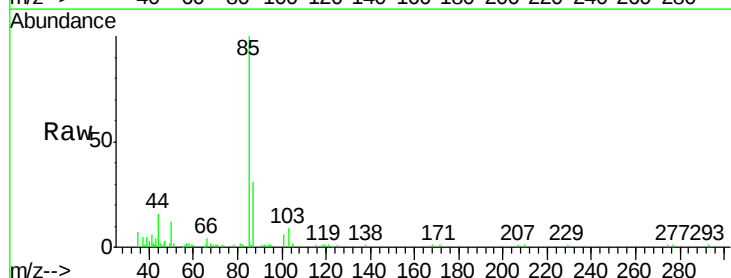
Acq: 4 Apr 2019 16:37

Tgt Ion: 85 Resp: 67833

Ion Ratio Lower Upper

85 100

87 31.0 14.9 44.5



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

15000

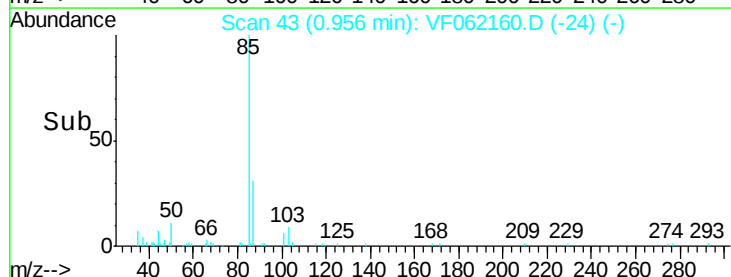
10000

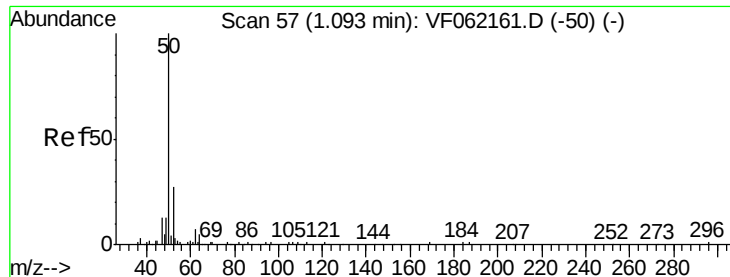
5000

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Time-->

0.80 0.90 1.00 1.10

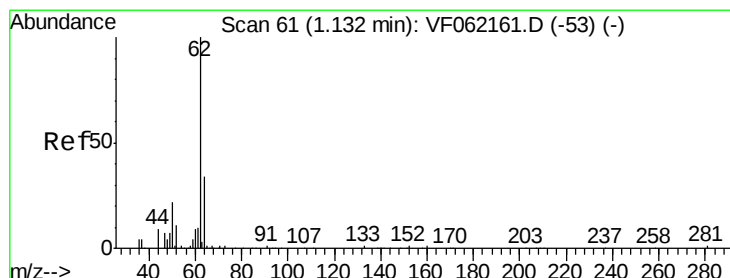
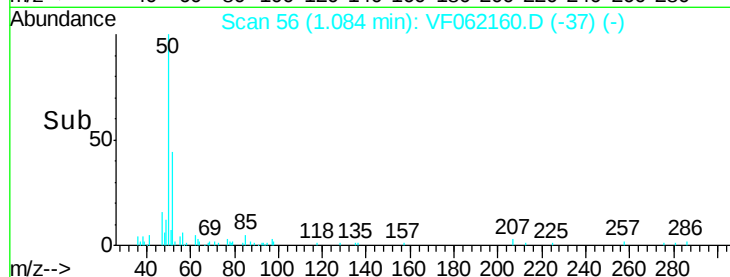
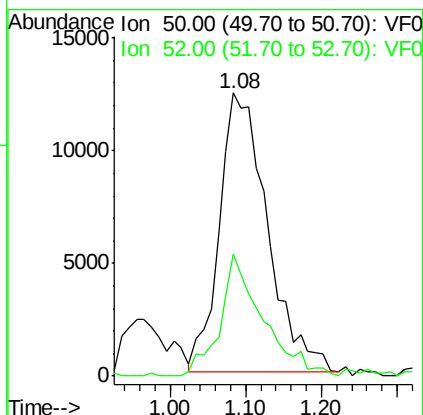
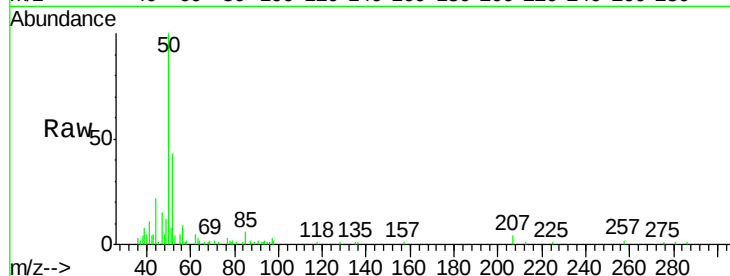




#3
Chloromethane
Concen: 19.567 ug/l
RT: 1.08 min Scan# 56
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

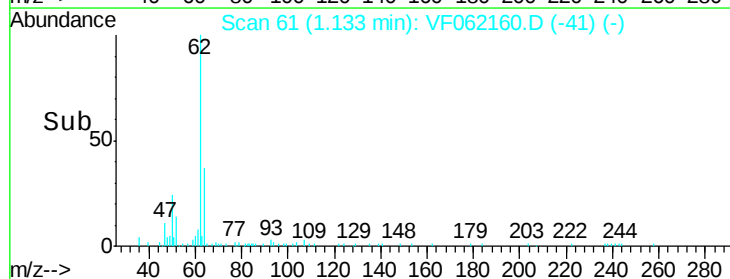
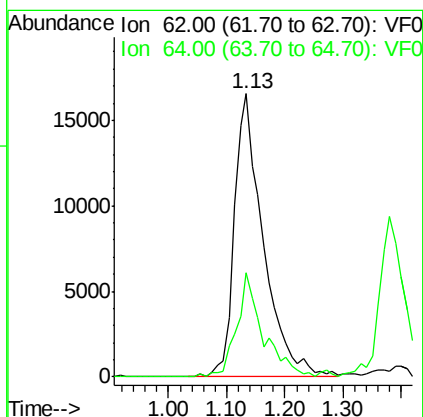
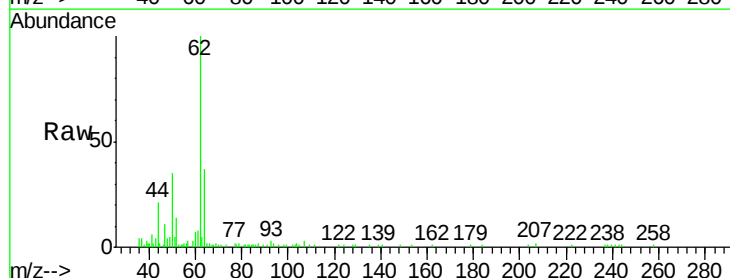
Instrument :
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ClientSampleId :
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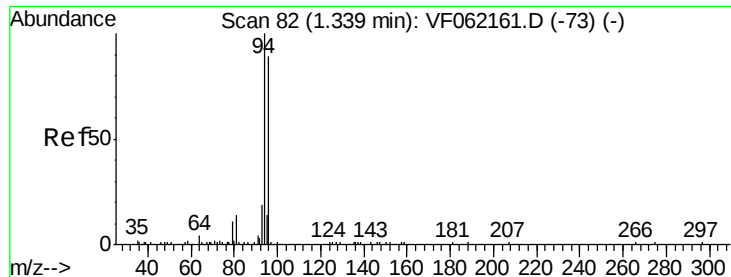
Tgt Ion: 50 Resp: 54545
Ion Ratio Lower Upper
50 100
52 43.1 21.4 32.0#



#4
Vinyl Chloride
Concen: 21.958 ug/l
RT: 1.13 min Scan# 61
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 62 Resp: 57018
Ion Ratio Lower Upper
62 100
64 36.7 27.0 40.4





#5

Bromomethane

Concen: 22.783 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

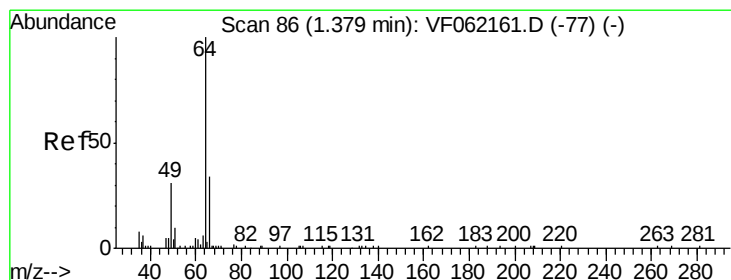
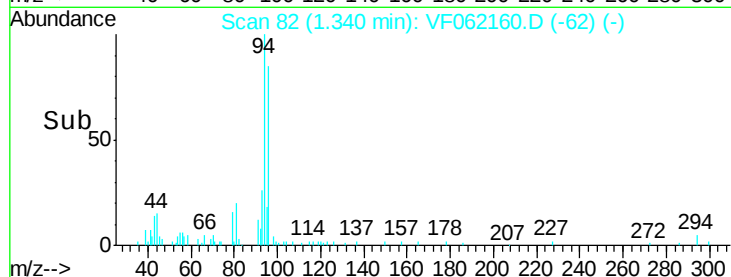
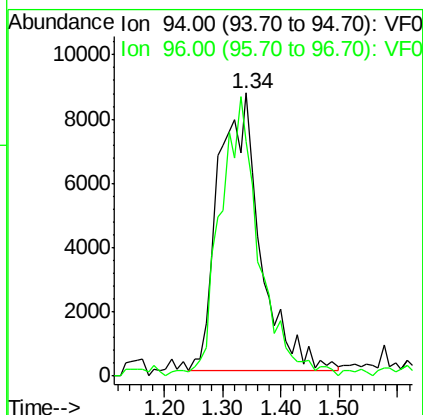
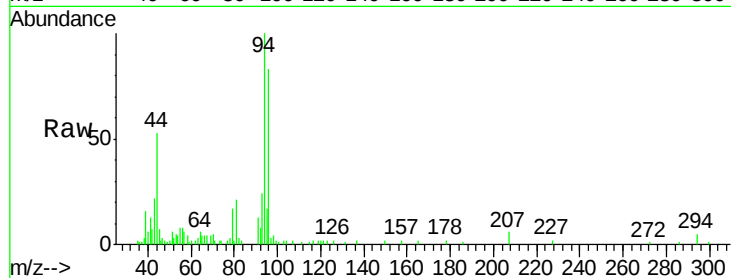
VSTDIC020

Tgt Ion: 94 Resp: 43173

Ion Ratio Lower Upper

94 100

96 83.0 71.3 106.9



#6

Chloroethane

Concen: 21.512 ug/l

RT: 1.38 min Scan# 86

Delta R.T. 0.00 min

Lab File: VF062160.D

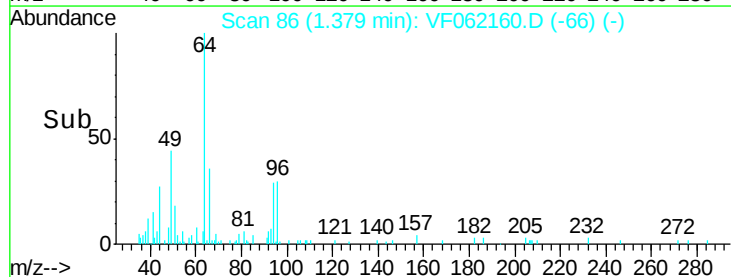
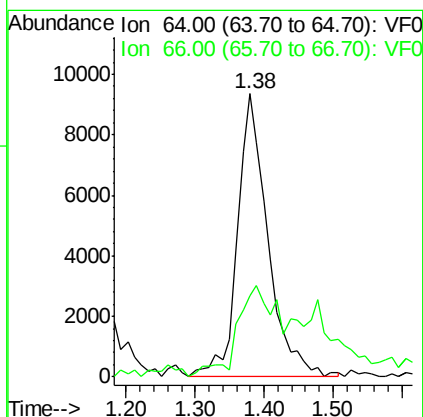
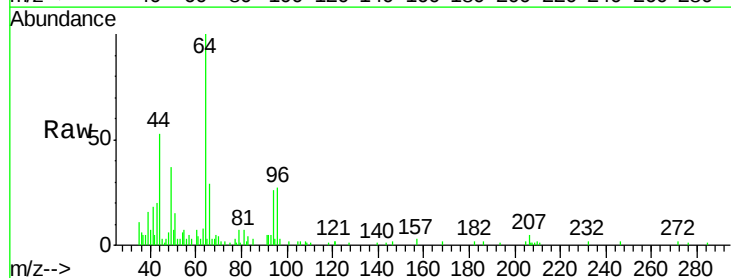
Acq: 4 Apr 2019 16:37

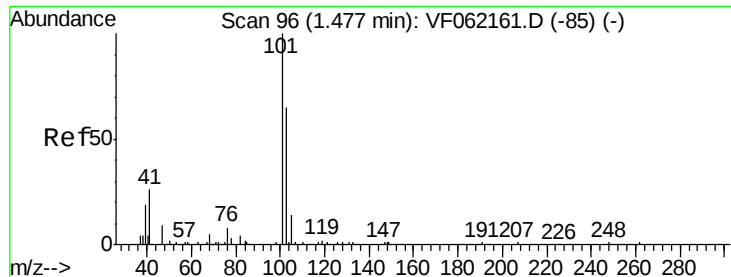
Tgt Ion: 64 Resp: 28643

Ion Ratio Lower Upper

64 100

66 28.8 27.8 41.6



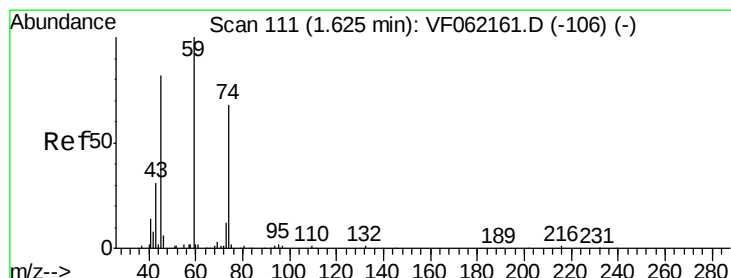
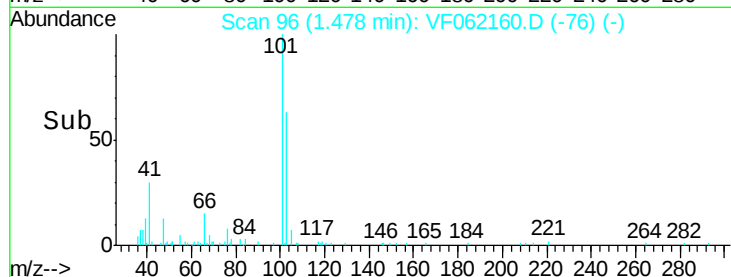
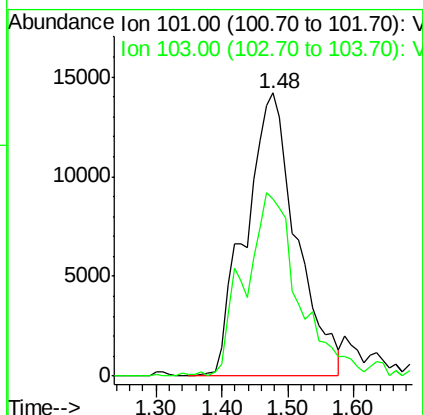
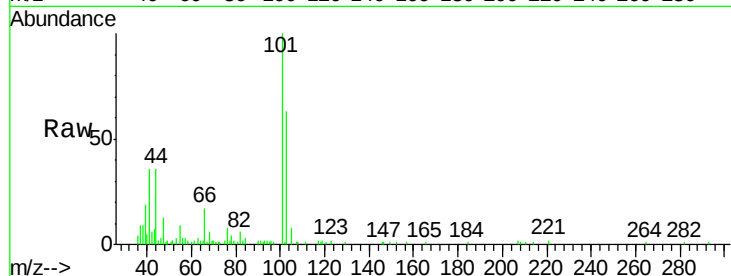


#7

Trichlorofluoromethane
 Concen: 23.631 ug/l
 RT: 1.48 min Scan# 96
 Delta R.T. 0.00 min
 Lab File: VF062160.D
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 VSTDIC020

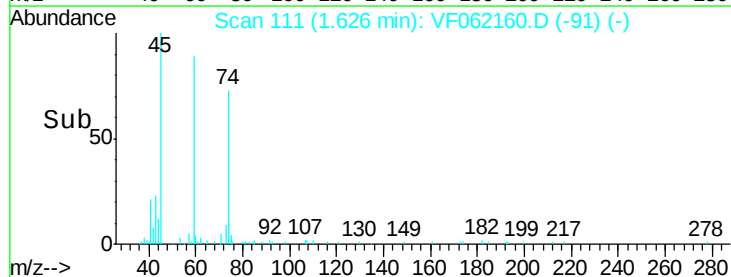
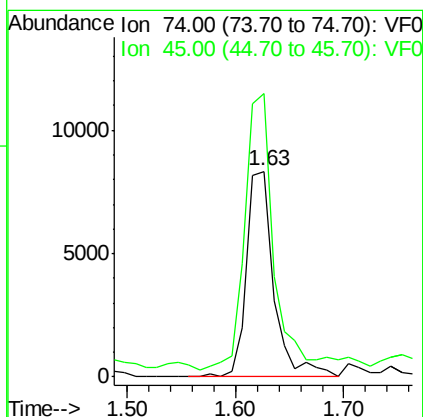
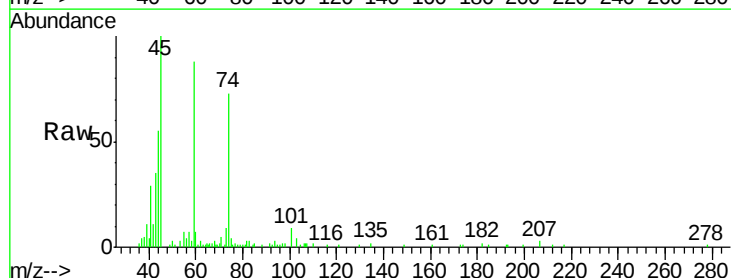
Tgt Ion: 101 Resp: 76644
 Ion Ratio Lower Upper
 101 100
 103 62.7 52.0 78.0

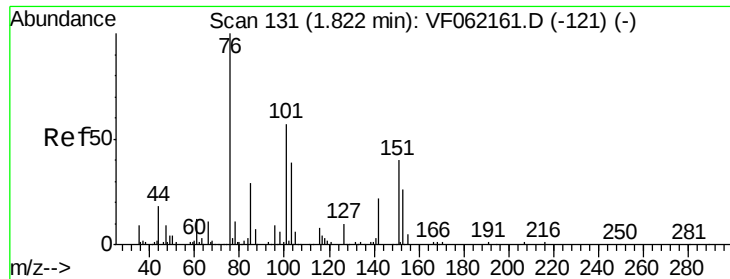


#8

Diethyl Ether
 Concen: 20.365 ug/l
 RT: 1.63 min Scan# 111
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion: 74 Resp: 14663
 Ion Ratio Lower Upper
 74 100
 45 137.8 61.9 185.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.059 ug/l

RT: 1.83 min Scan# 132

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

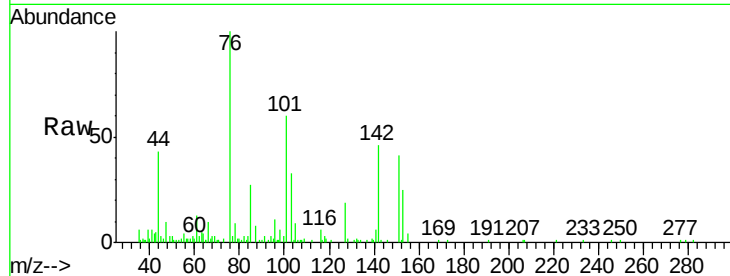
Tgt Ion:101 Resp: 47523

Ion Ratio Lower Upper

101 100

85 45.9 41.0 61.6

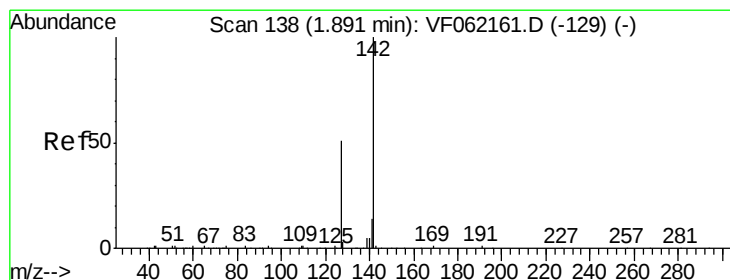
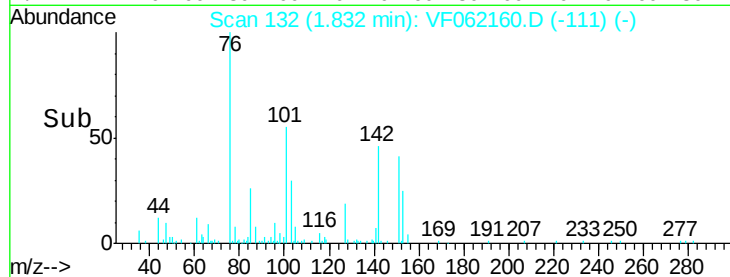
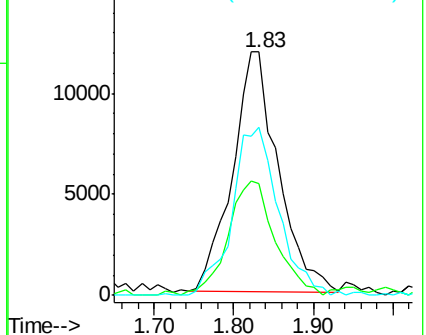
151 68.9 56.5 84.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 3.665 ug/l

RT: 1.83 min Scan# 132

Delta R.T. -0.06 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

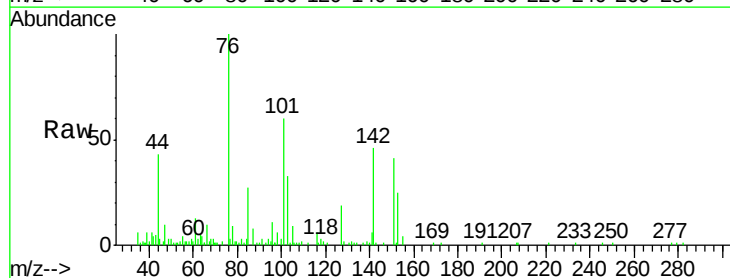
Tgt Ion:142 Resp: 14959

Ion Ratio Lower Upper

142 100

127 42.2 40.7 61.1

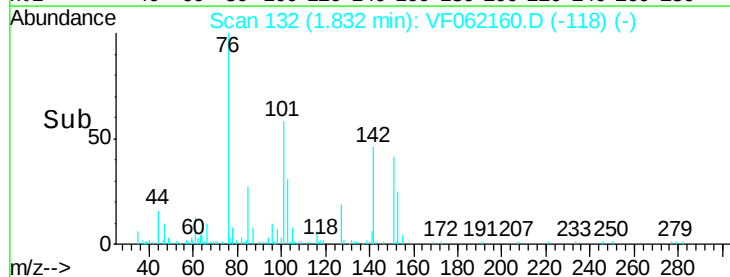
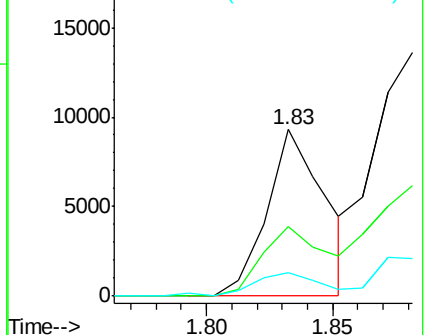
141 14.1 11.1 16.7

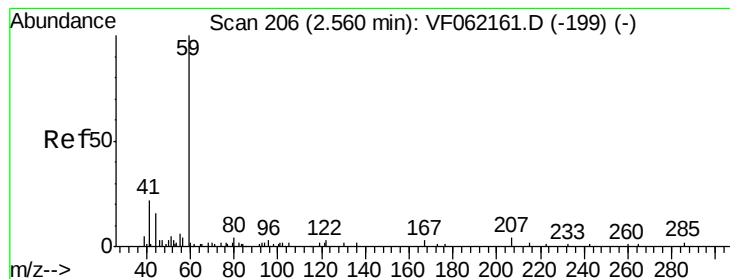


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



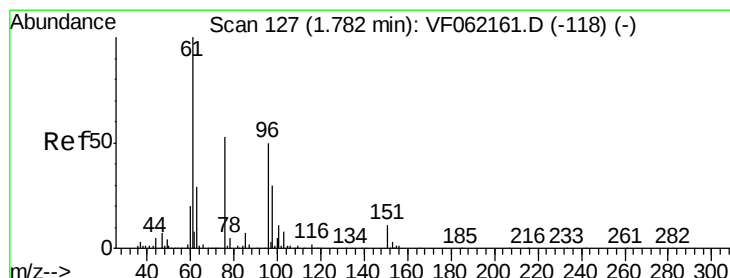
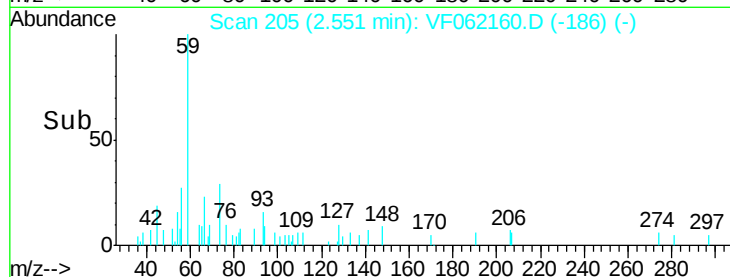
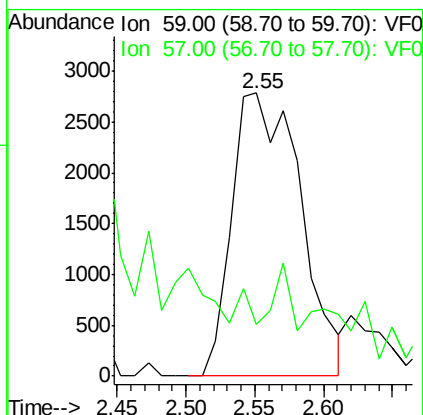
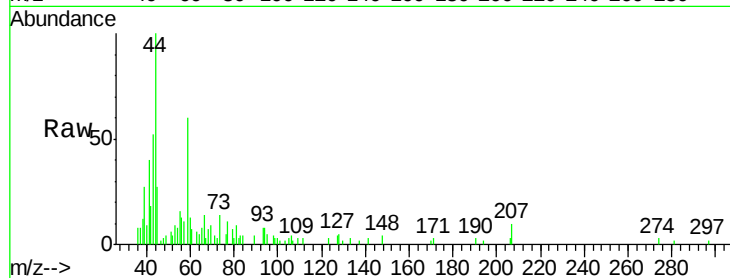


#11

Tert butyl alcohol
 Concen: 107.230 ug/l
 RT: 2.55 min Scan# 205
 Delta R.T. -0.01 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

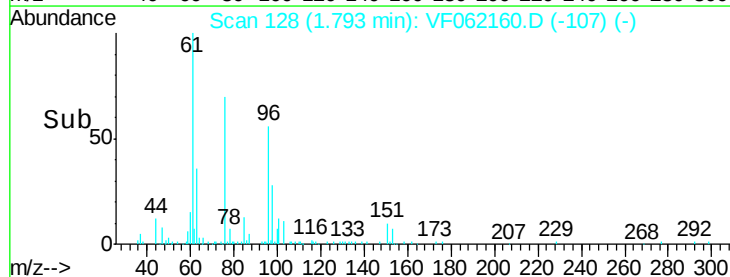
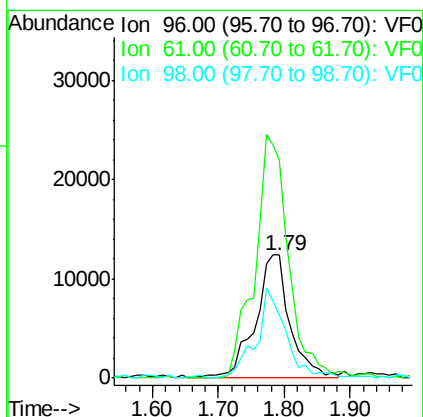
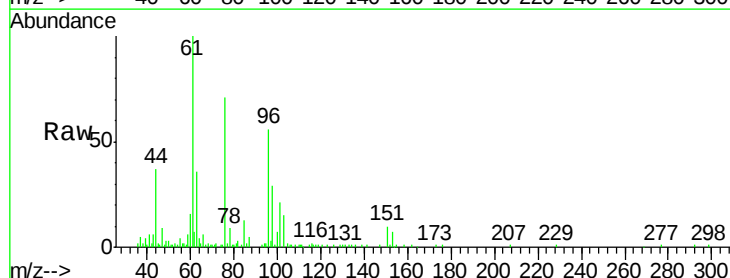
Tgt Ion: 59 Resp: 9608
 Ion Ratio Lower Upper
 59 100
 57 18.2 9.5 14.3#

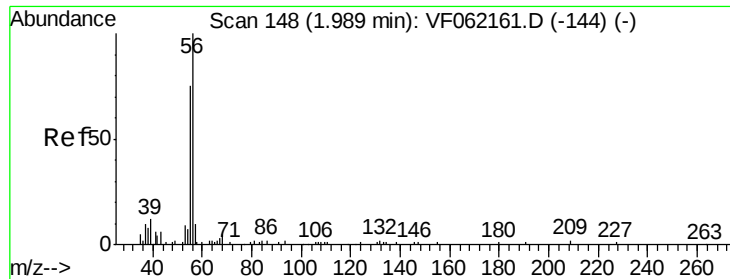


#12

1,1-Dichloroethene
 Concen: 22.519 ug/l
 RT: 1.79 min Scan# 128
 Delta R.T. 0.01 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion: 96 Resp: 45952
 Ion Ratio Lower Upper
 96 100
 61 177.0 161.8 242.6
 98 51.2 49.2 73.8





#13

Acrolein

Concen: 113.363 ug/l

RT: 1.99 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

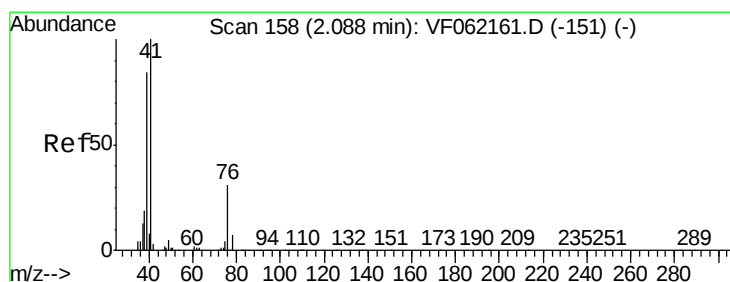
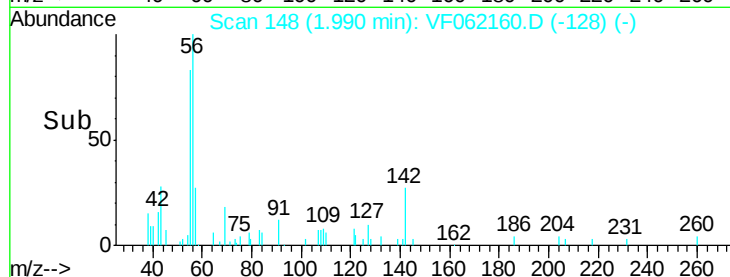
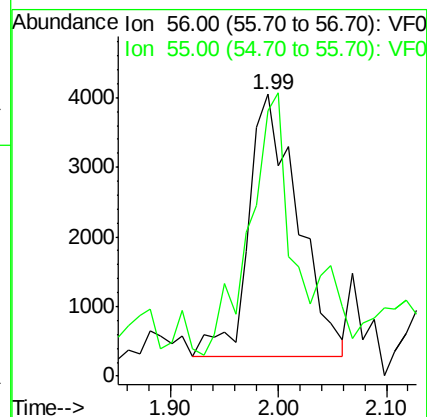
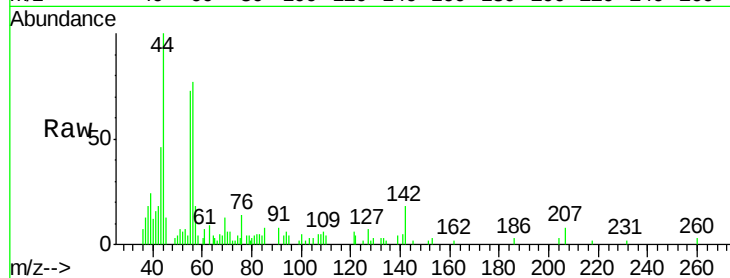
VSTDIC020

Tgt Ion: 56 Resp: 11986

Ion Ratio Lower Upper

56 100

55 94.2 63.5 95.3



#14

Allyl chloride

Concen: 25.802 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

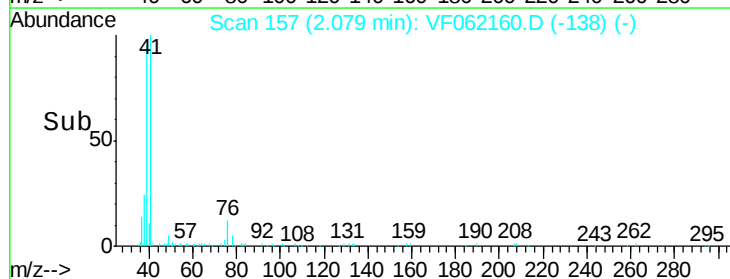
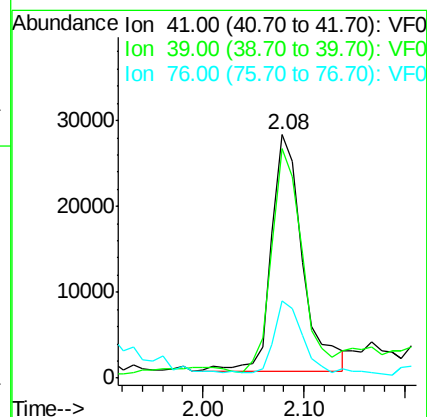
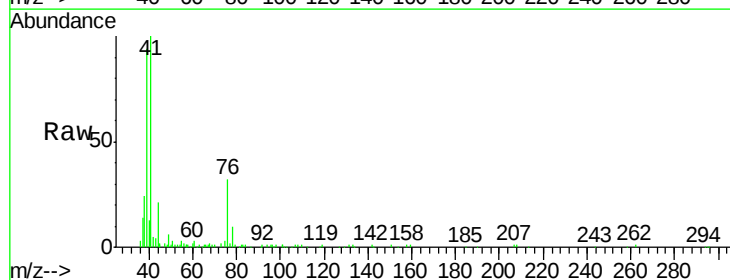
Tgt Ion: 41 Resp: 58815

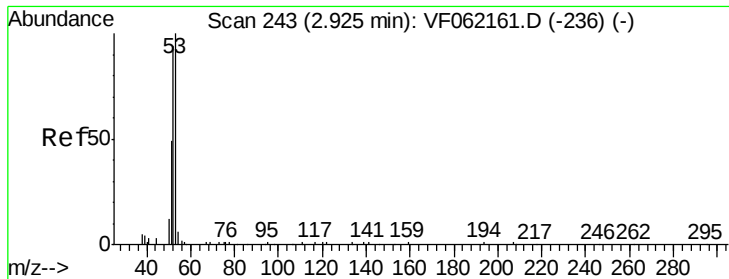
Ion Ratio Lower Upper

41 100

39 94.3 67.6 101.4

76 31.8 25.7 38.5





#15

Acrylonitrile

Concen: 96.210 ug/l

RT: 2.93 min Scan# 243

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

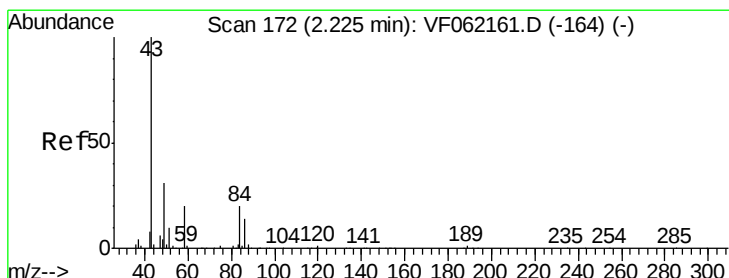
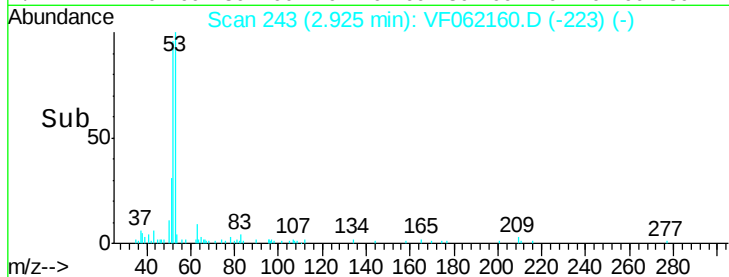
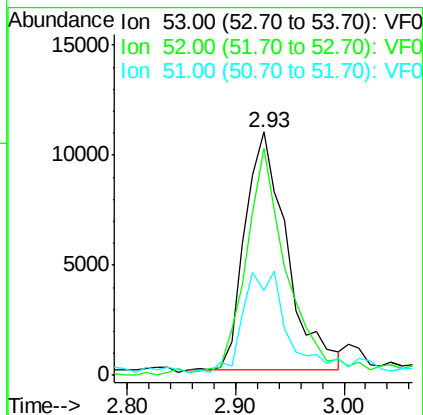
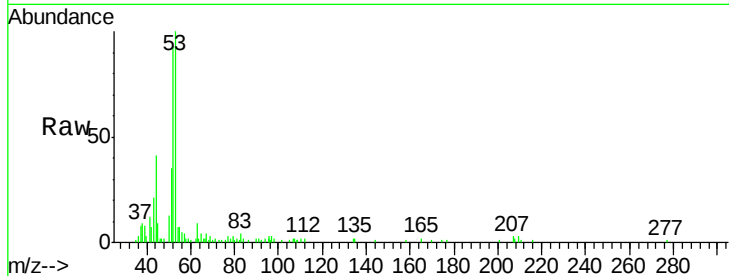
Tgt Ion: 53 Resp: 29363

Ion Ratio Lower Upper

53 100

52 93.4 75.5 113.3

51 34.6 39.7 59.5#



#16

Acetone

Concen: 127.016 ug/l

RT: 2.23 min Scan# 172

Delta R.T. 0.00 min

Lab File: VF062160.D

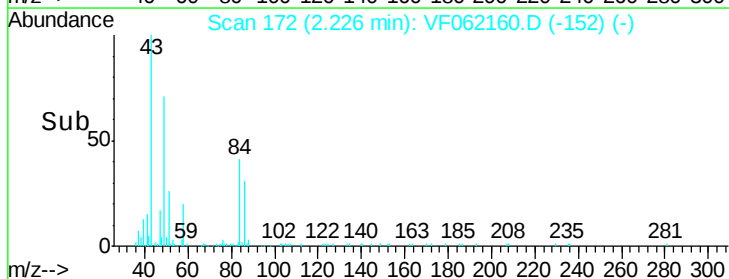
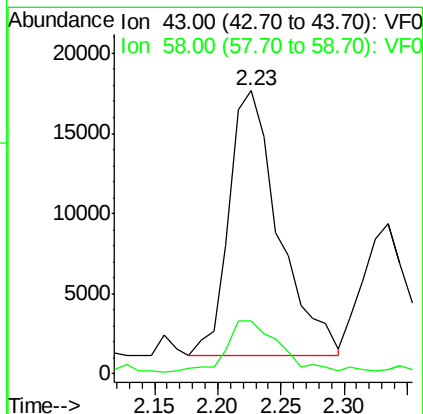
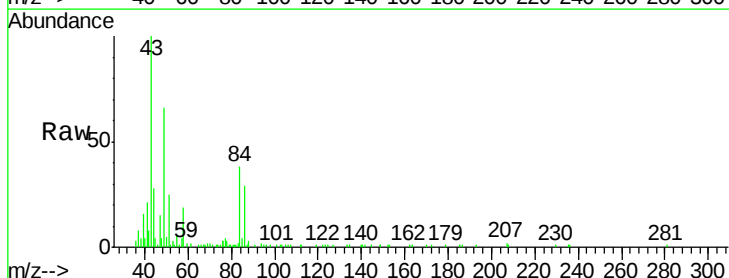
Acq: 4 Apr 2019 16:37

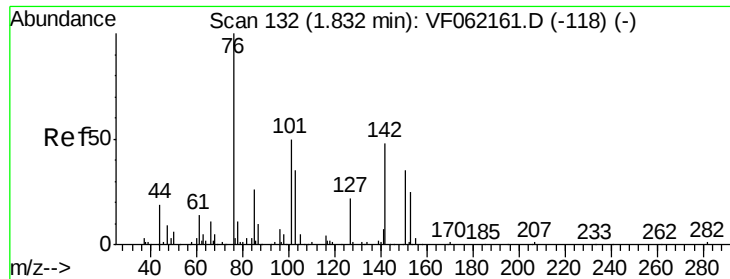
Tgt Ion: 43 Resp: 45490

Ion Ratio Lower Upper

43 100

58 18.7 15.7 23.5





#17

Carbon Disulfide

Concen: 23.097 ug/l

RT: 1.82 min Scan# 131

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

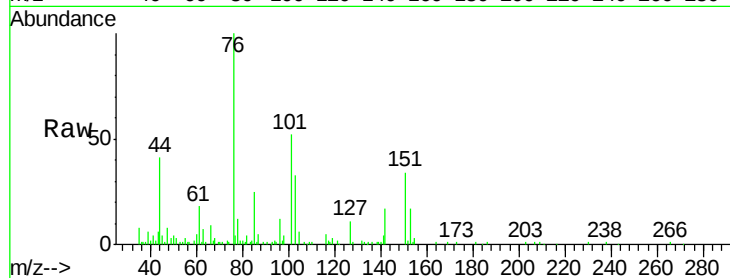
VSTDIC020

Tgt Ion: 76 Resp: 144174

Ion Ratio Lower Upper

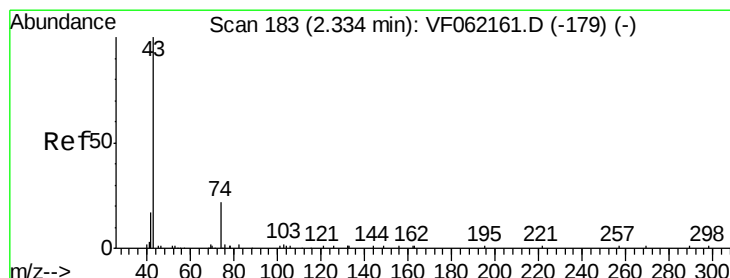
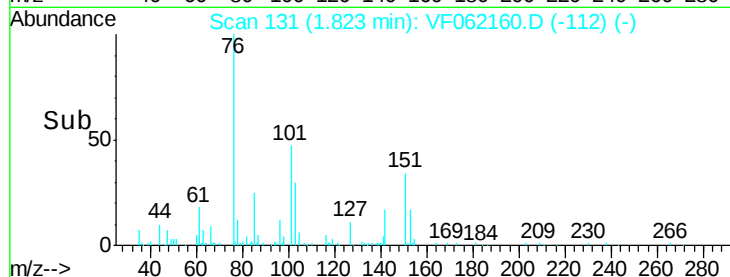
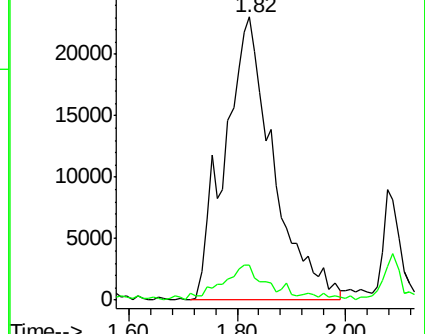
76 100

78 12.2 8.6 13.0



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 23.688 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF062160.D

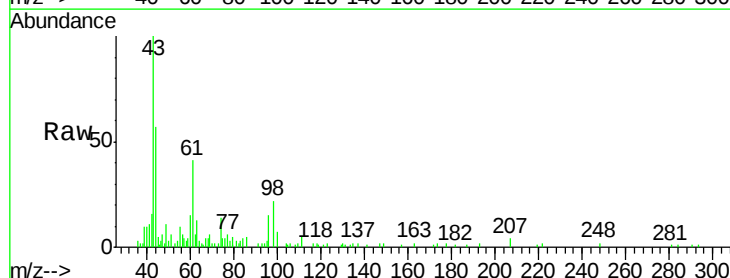
Acq: 4 Apr 2019 16:37

Tgt Ion: 43 Resp: 19528

Ion Ratio Lower Upper

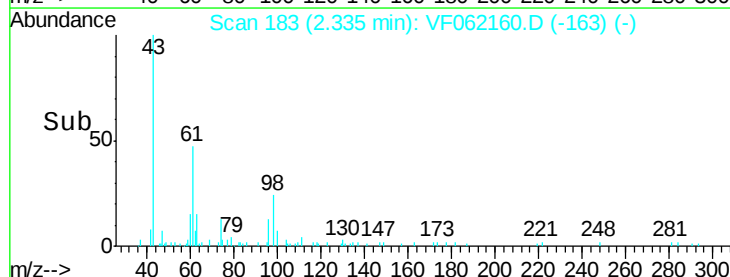
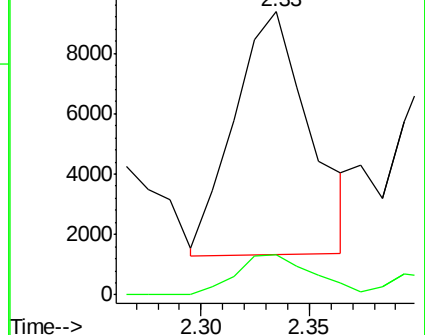
43 100

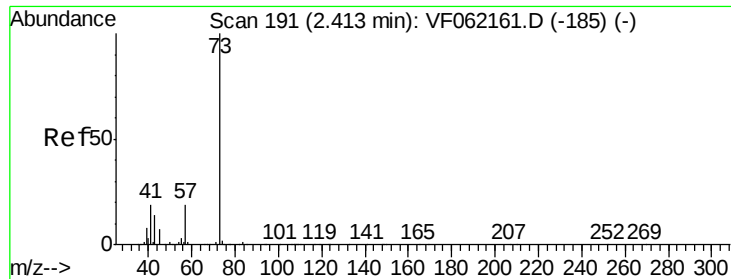
74 14.3 14.3 21.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

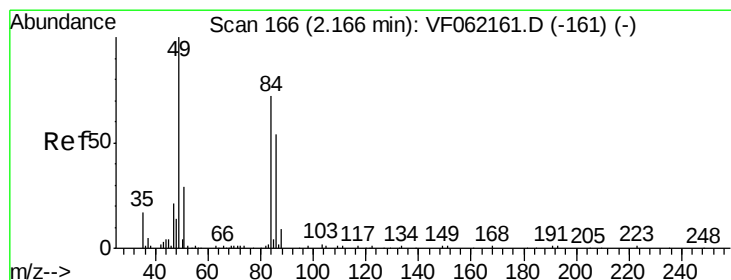
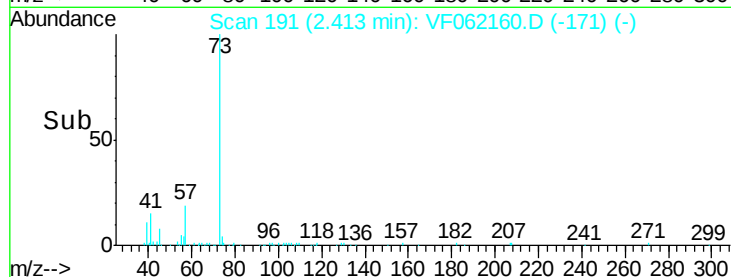
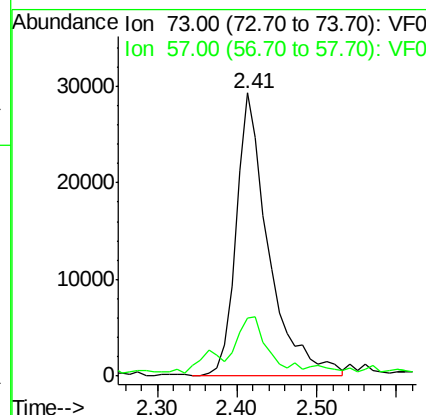
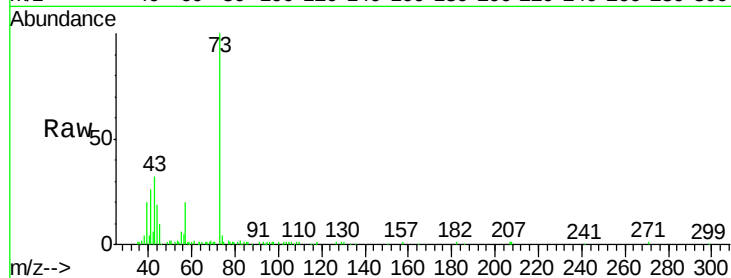




#19
Methyl tert-butyl Ether
Concen: 24.603 ug/l
RT: 2.41 min Scan# 191
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

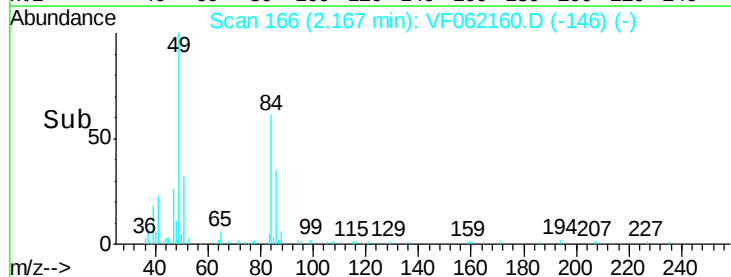
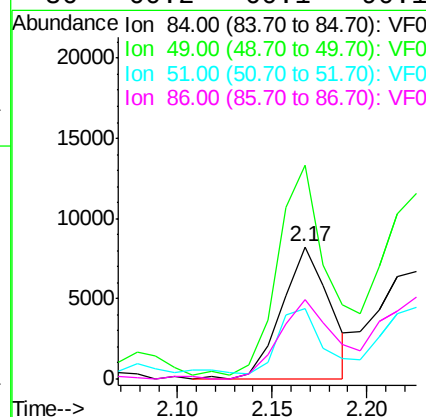
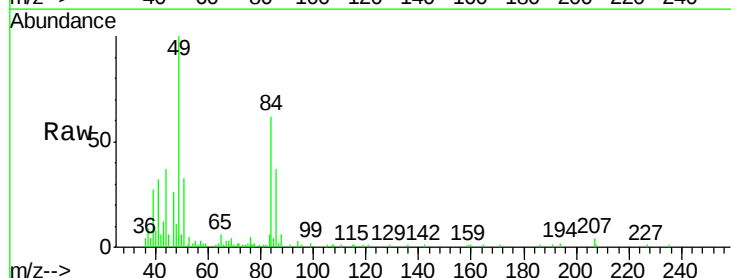
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

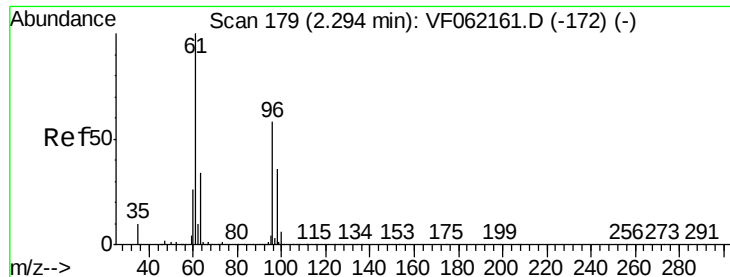
Tgt Ion: 73 Resp: 81987
Ion Ratio Lower Upper
73 100
57 20.4 17.4 26.0



#20
Methylene Chloride
Concen: 6.296 ug/l
RT: 2.17 min Scan# 166
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 84 Resp: 14568
Ion Ratio Lower Upper
84 100
49 161.5 112.6 168.8
51 53.3 33.4 50.2#
86 60.2 60.1 90.1





#21

trans-1,2-Dichloroethene

Concen: 19.883 ug/l

RT: 2.30 min Scan# 179

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

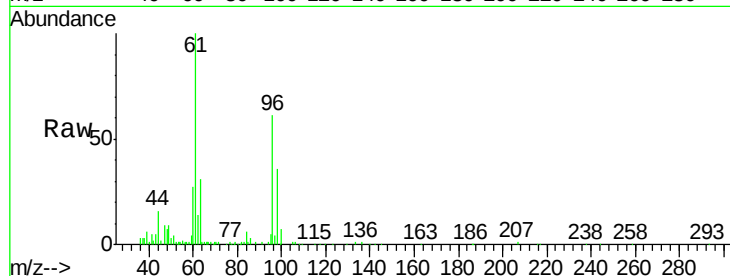
Tgt Ion: 96 Resp: 39368

Ion Ratio Lower Upper

96 100

61 163.8 137.4 206.0

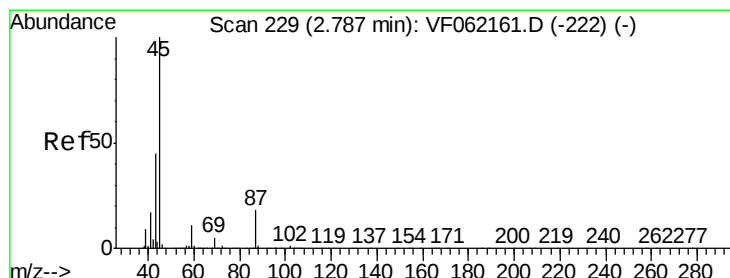
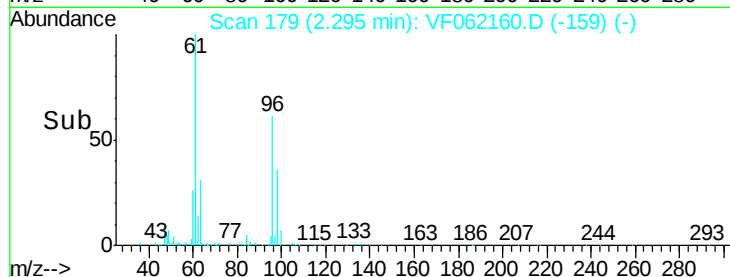
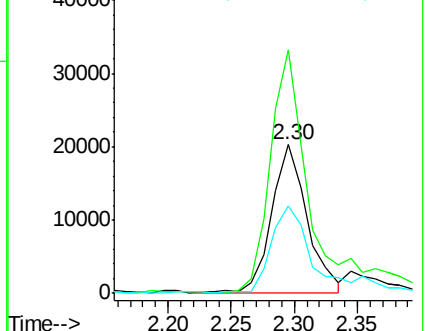
98 58.9 49.4 74.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 22.256 ug/l

RT: 2.78 min Scan# 228

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Tgt Ion: 45 Resp: 130264

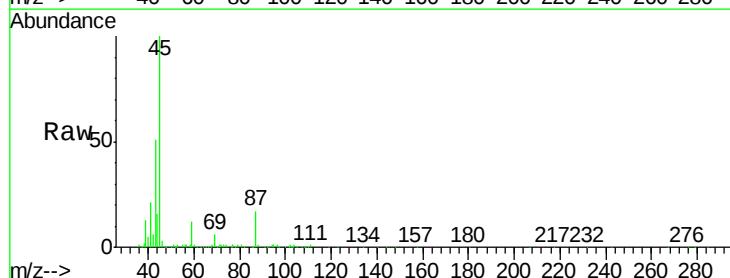
Ion Ratio Lower Upper

45 100

43 51.4 37.4 56.2

87 16.9 14.3 21.5

59 12.0 8.7 13.1

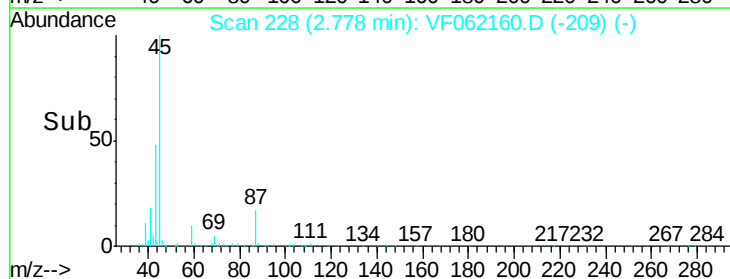
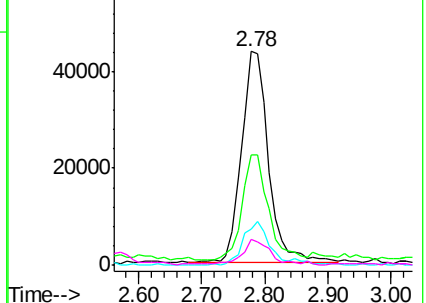


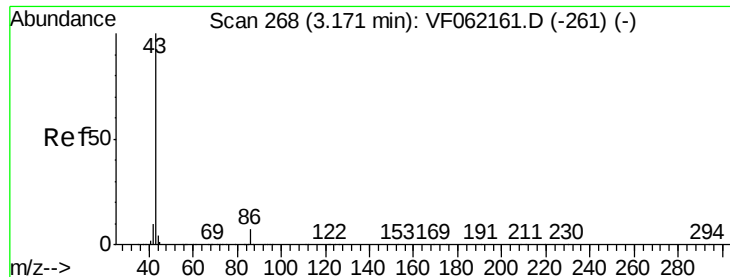
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0

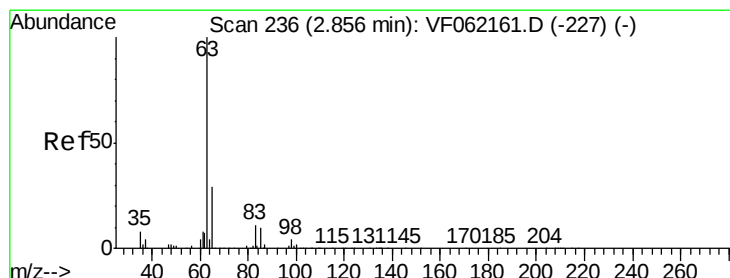
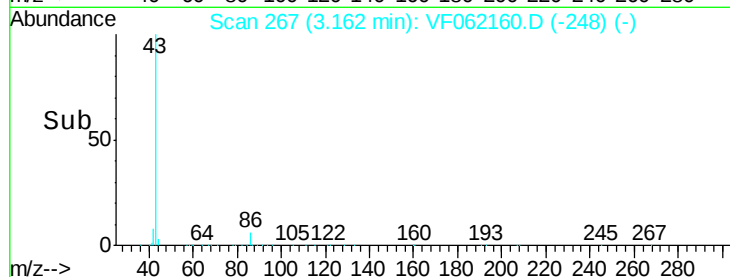
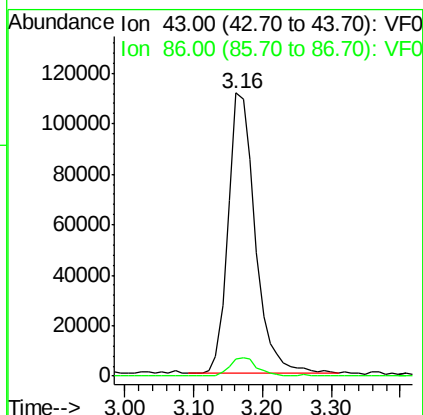
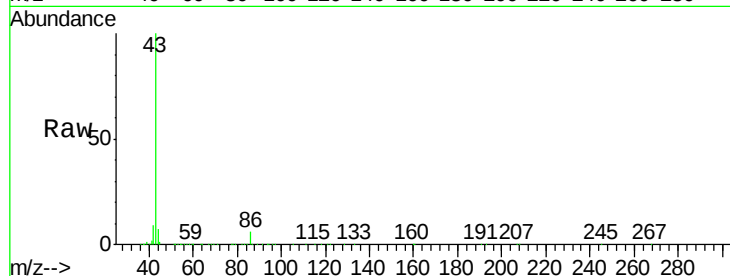




#23
 Vinyl Acetate
 Concen: 124.365 ug/l
 RT: 3.16 min Scan# 267
 Delta R.T. -0.01 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

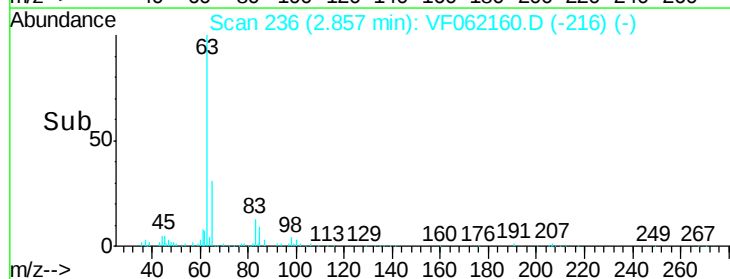
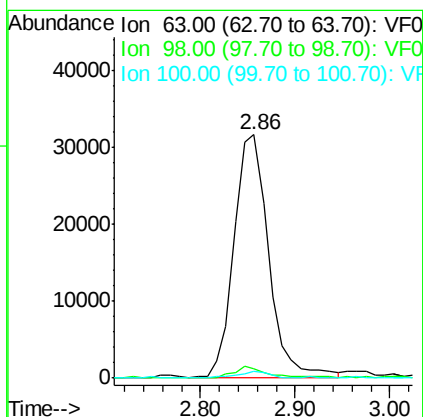
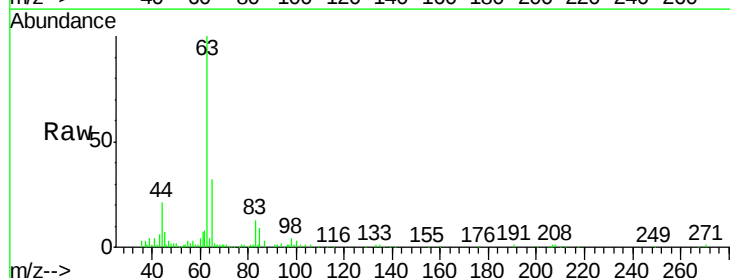
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

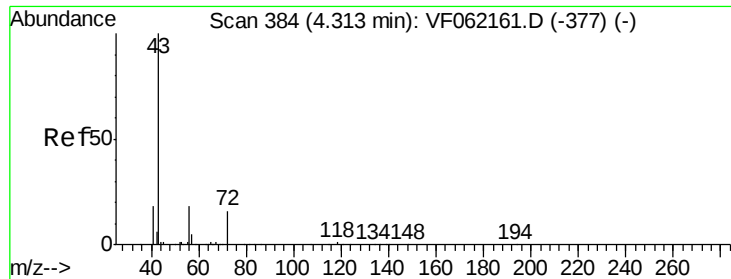
Tgt Ion: 43 Resp: 304010
 Ion Ratio Lower Upper
 43 100
 86 5.9 5.7 8.5



#24
 1,1-Dichloroethane
 Concen: 23.115 ug/l
 RT: 2.86 min Scan# 236
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion: 63 Resp: 81041
 Ion Ratio Lower Upper
 63 100
 98 3.8 2.0 6.0
 100 2.7 1.0 3.0





#25

2-Butanone

Concen: 119.321 ug/l

RT: 4.30 min Scan# 383

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

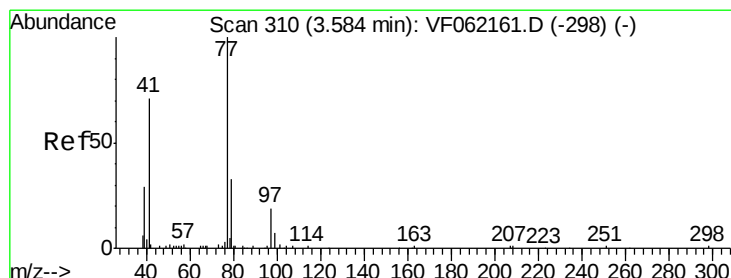
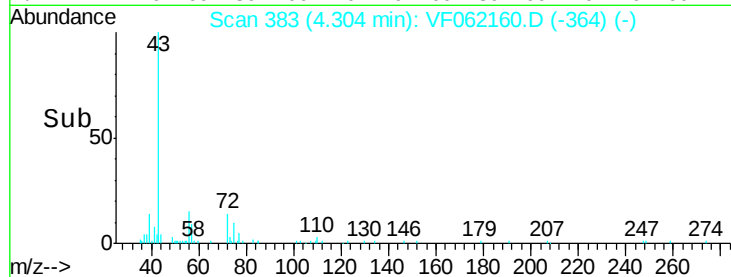
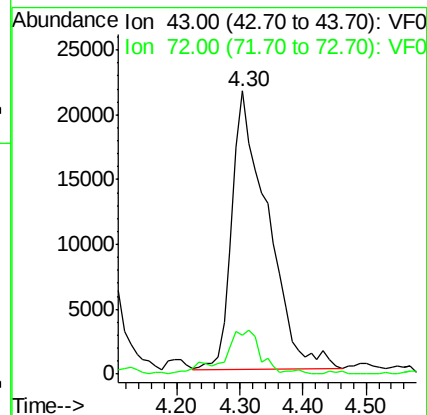
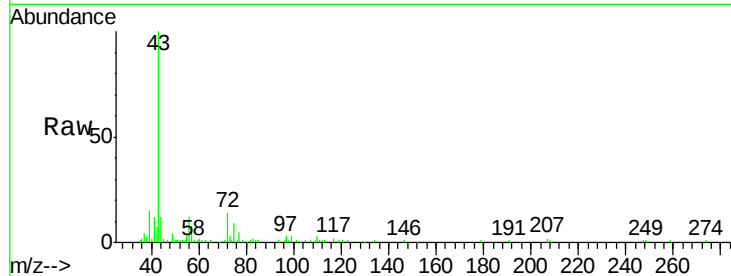
VSTDIC020

Tgt Ion: 43 Resp: 84493

Ion Ratio Lower Upper

43 100

72 13.7 16.4 24.6#



#26

2,2-Dichloropropane

Concen: 27.697 ug/l

RT: 3.57 min Scan# 308

Delta R.T. -0.02 min

Lab File: VF062160.D

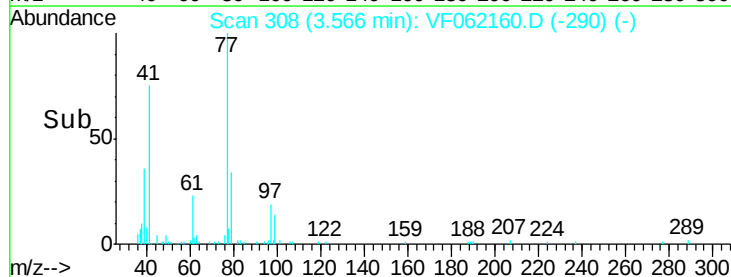
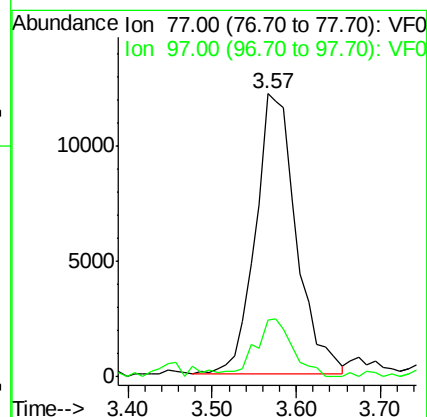
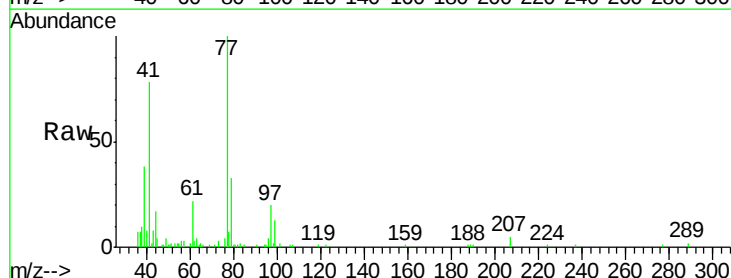
Acq: 4 Apr 2019 16:37

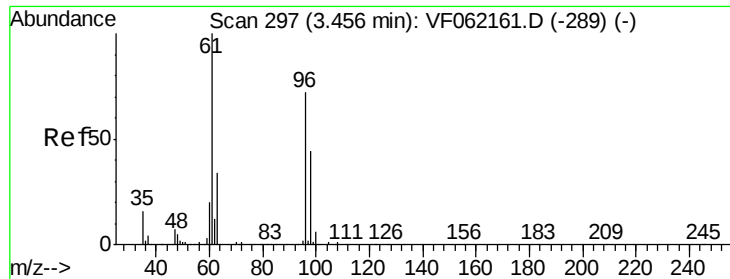
Tgt Ion: 77 Resp: 41146

Ion Ratio Lower Upper

77 100

97 20.1 11.4 34.2



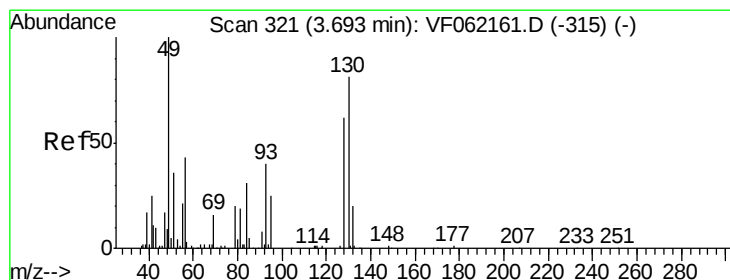
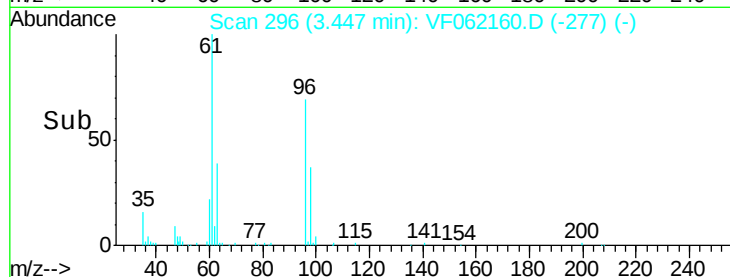
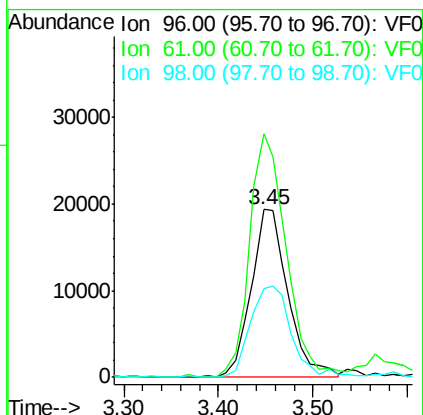
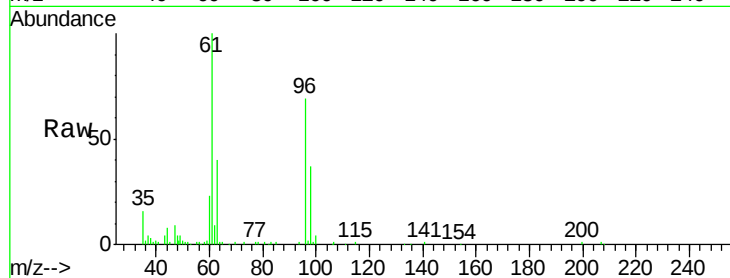


#27

cis-1,2-Dichloroethene
Concen: 19.973 ug/l
RT: 3.45 min Scan# 296
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

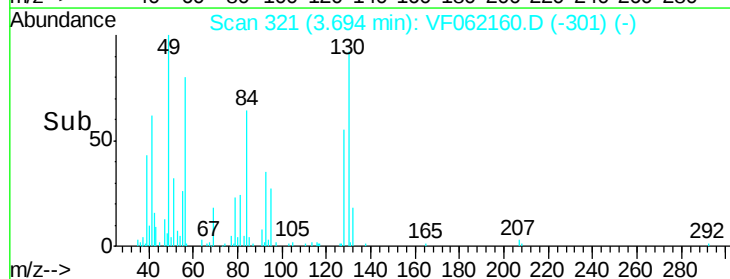
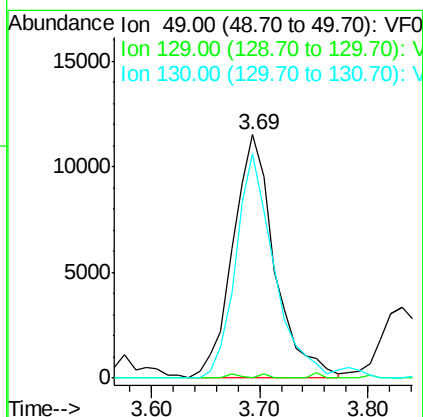
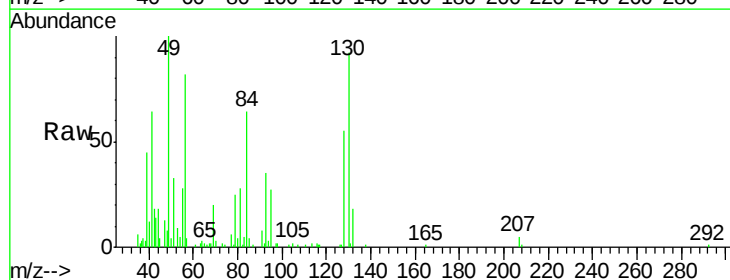
Tgt Ion: 96 Resp: 52295
Ion Ratio Lower Upper
96 100
61 145.2 0.0 278.2
98 53.1 0.0 122.2

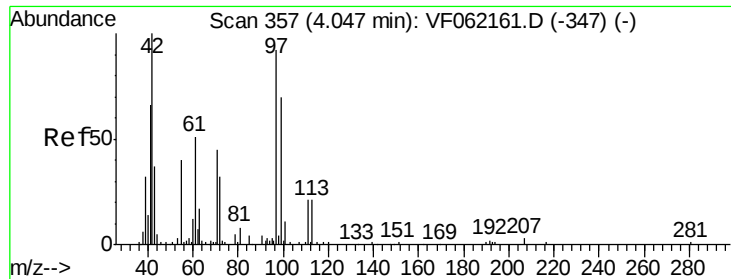


#28

Bromochloromethane
Concen: 21.027 ug/l
RT: 3.69 min Scan# 321
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 49 Resp: 30946
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 92.2 65.0 97.4

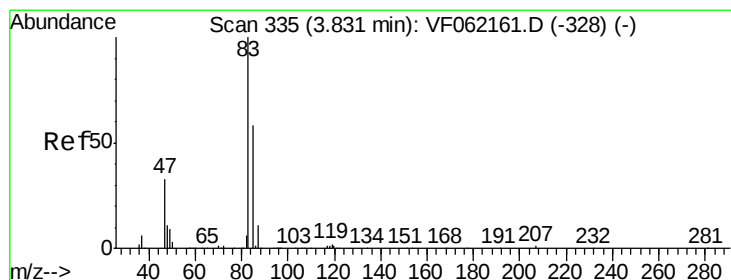
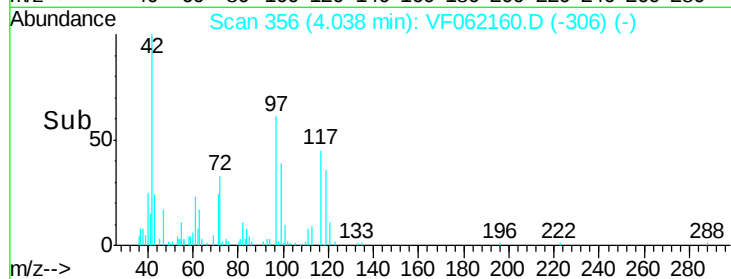
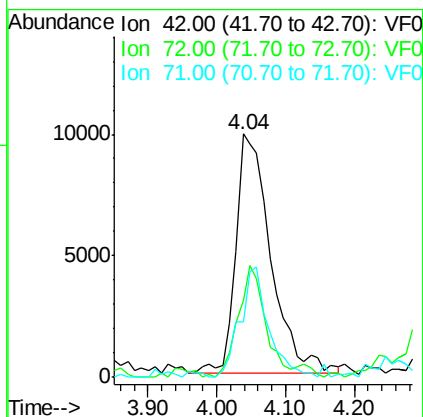
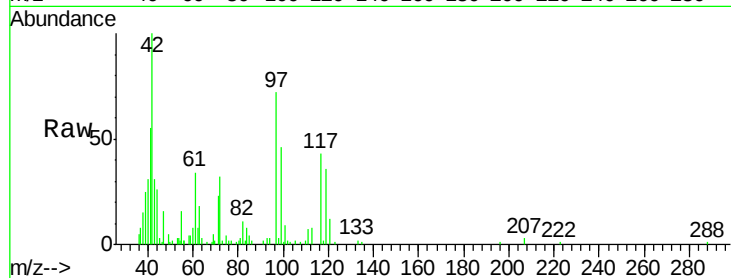




#29
Tetrahydrofuran
Concen: 113.447 ug/l
RT: 4.04 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

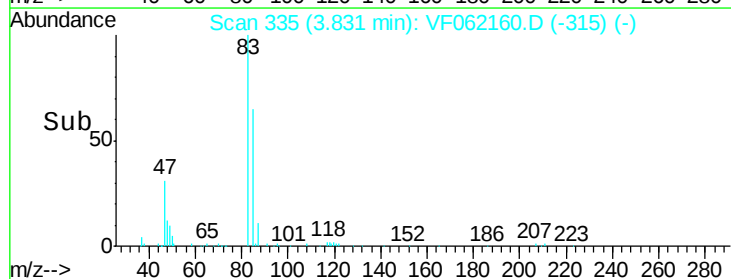
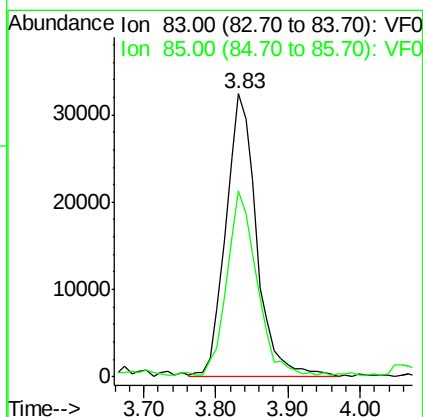
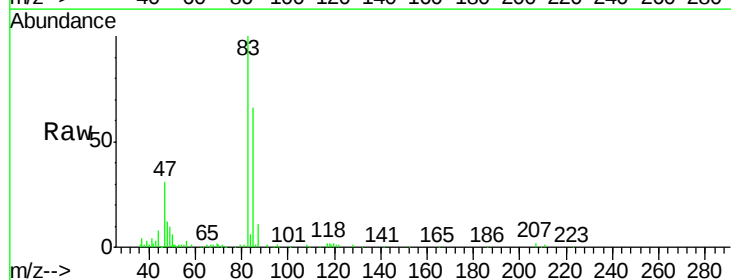
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

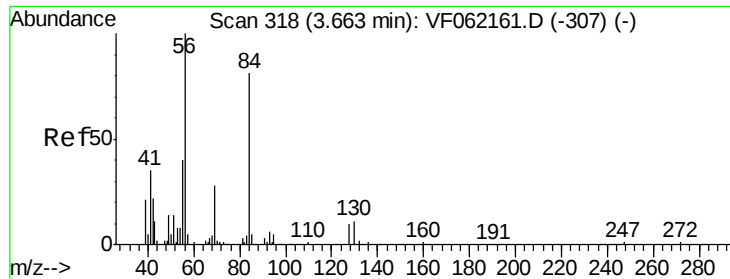
Tgt Ion: 42 Resp: 34807
Ion Ratio Lower Upper
42 100
72 36.2 30.9 46.3
71 37.5 32.0 48.0



#30
Chloroform
Concen: 25.457 ug/l
RT: 3.83 min Scan# 335
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 83 Resp: 96306
Ion Ratio Lower Upper
83 100
85 65.8 46.9 70.3





#31

Cyclohexane

Concen: 21.974 ug/l

RT: 3.67 min Scan# 319

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

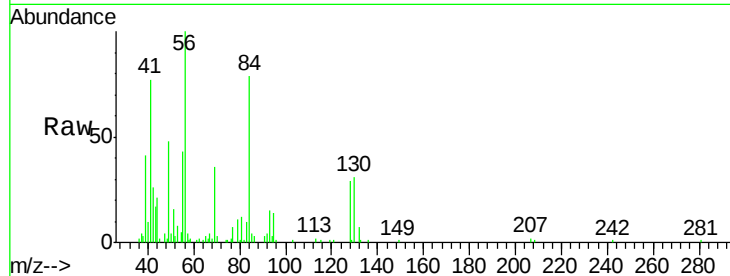
Tgt Ion: 56 Resp: 78795

Ion Ratio Lower Upper

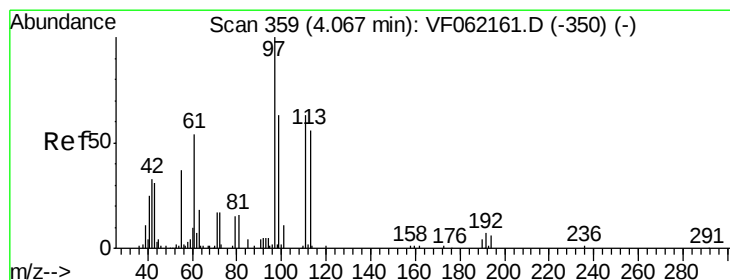
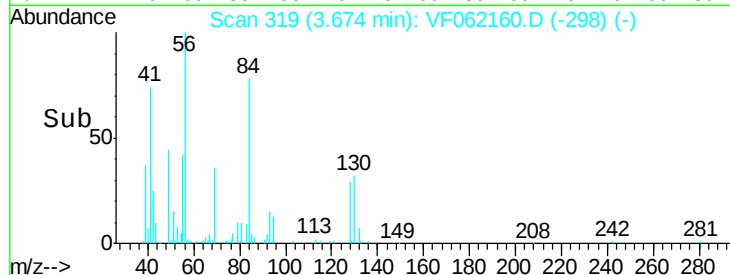
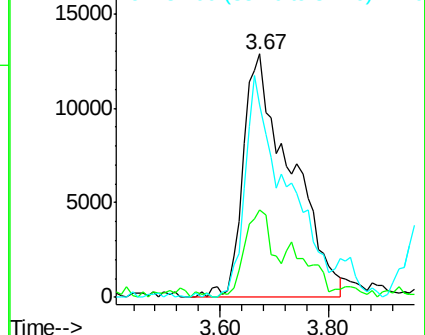
56 100

69 35.9 23.0 34.4#

84 78.9 64.4 96.6



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 28.244 ug/l

RT: 4.08 min Scan# 360

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

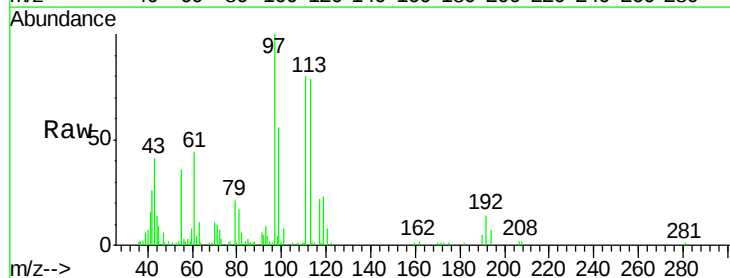
Tgt Ion: 97 Resp: 68368

Ion Ratio Lower Upper

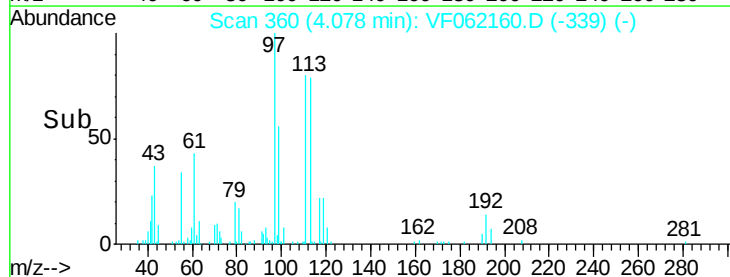
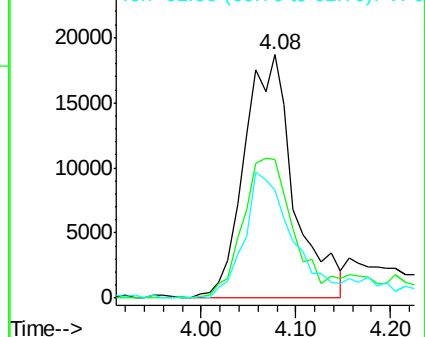
97 100

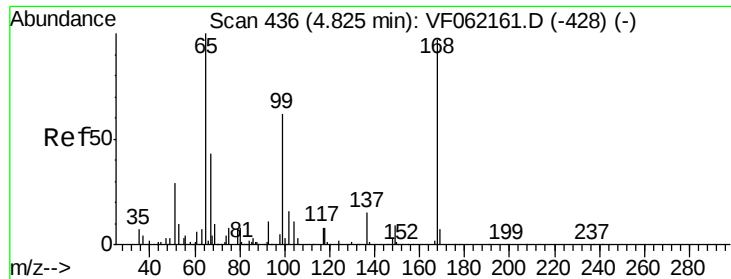
99 56.8 50.2 75.2

61 44.5 43.5 65.3



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 26.619 ug/l

RT: 4.82 min Scan# 435

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

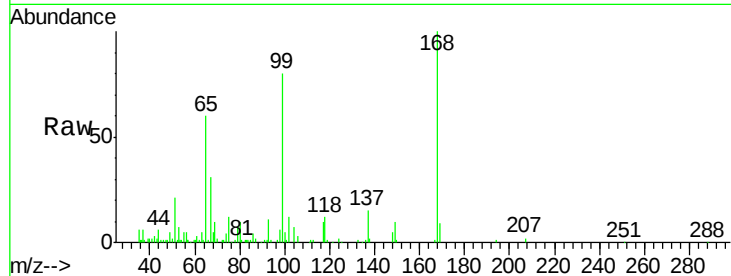
VSTDIC020

Tgt Ion: 65 Resp: 46450

Ion Ratio Lower Upper

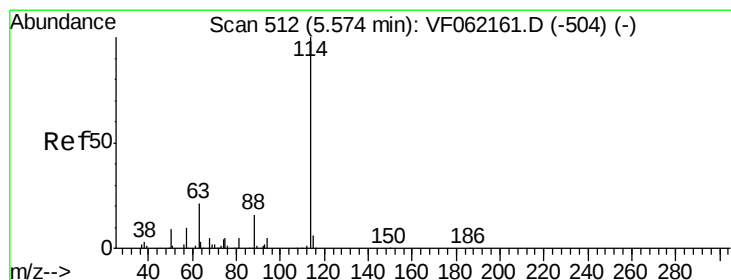
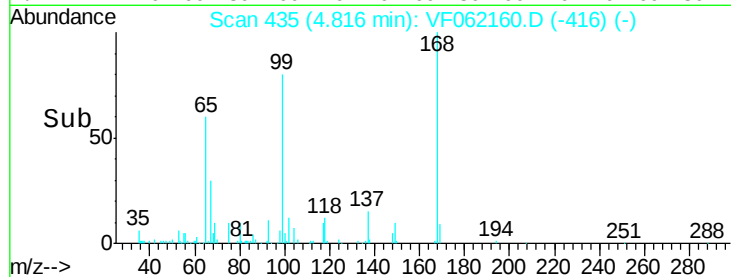
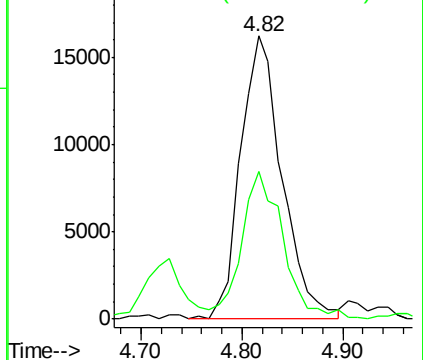
65 100

67 52.1 0.0 96.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 512

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

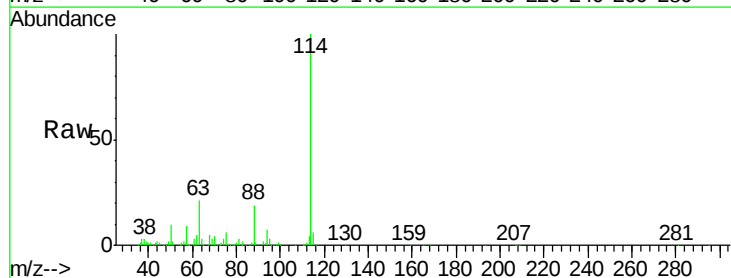
Tgt Ion: 114 Resp: 329601

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.8

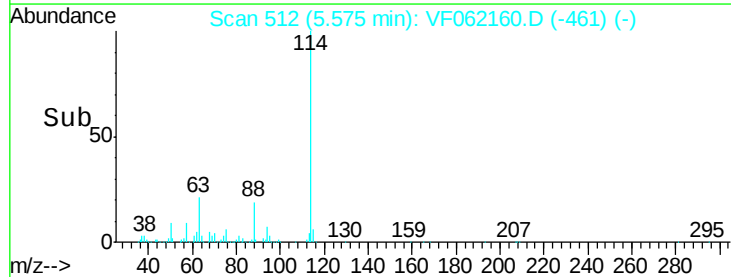
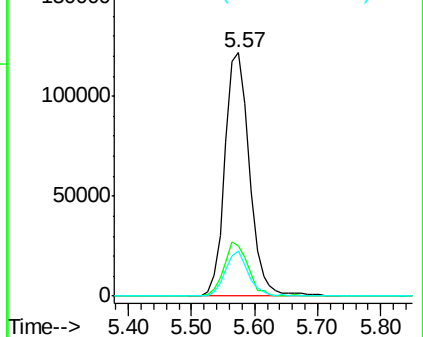
88 18.7 0.0 31.4

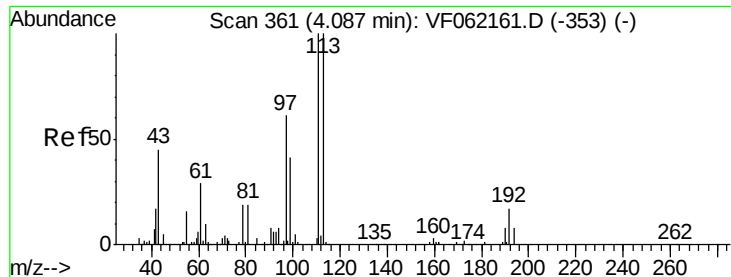


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 21.427 ug/l

RT: 4.09 min Scan# 361

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

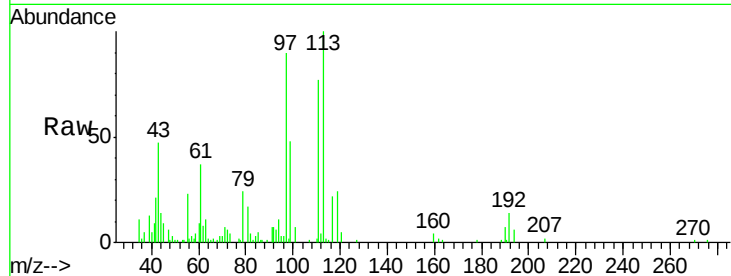
Tgt Ion: 113 Resp: 48699

Ion Ratio Lower Upper

113 100

111 77.2 79.8 119.6#

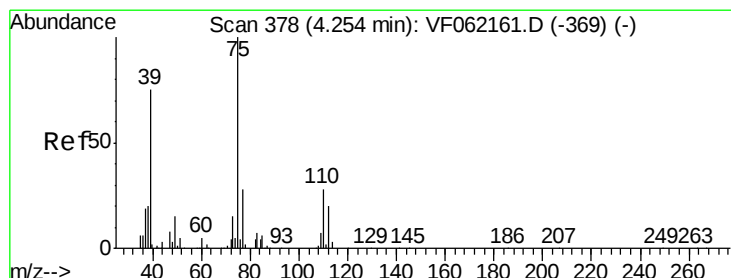
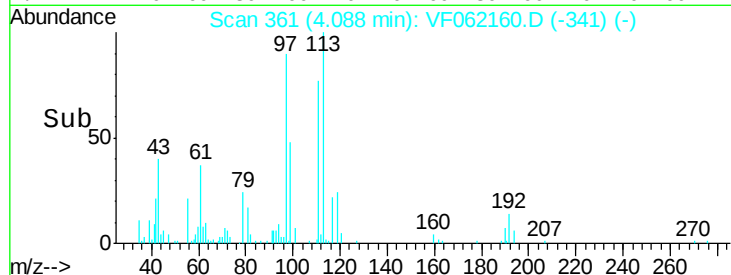
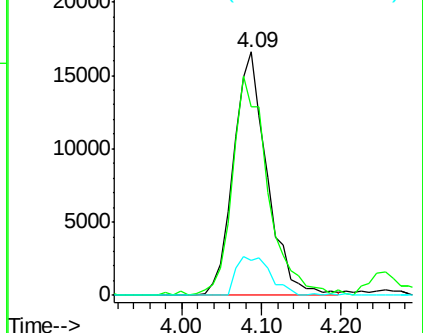
192 14.3 13.8 20.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 25.182 ug/l

RT: 4.25 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

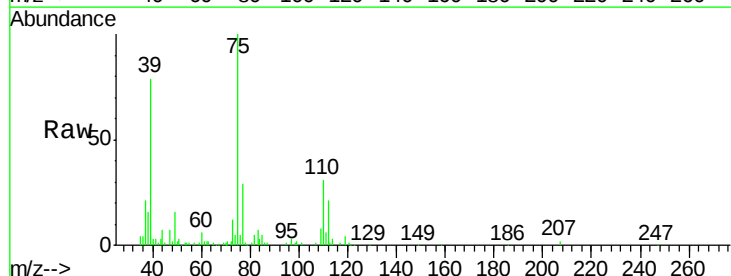
Tgt Ion: 75 Resp: 80842

Ion Ratio Lower Upper

75 100

110 31.4 13.9 41.7

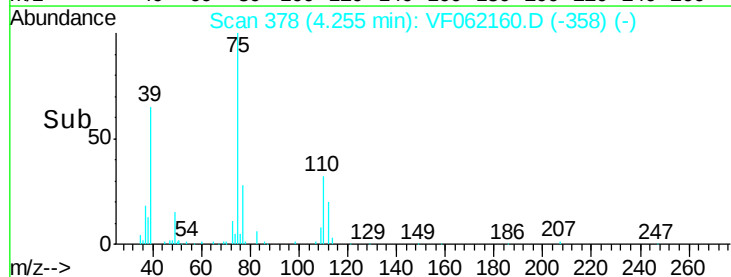
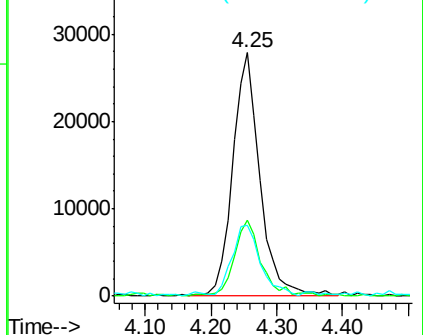
77 29.2 22.6 34.0

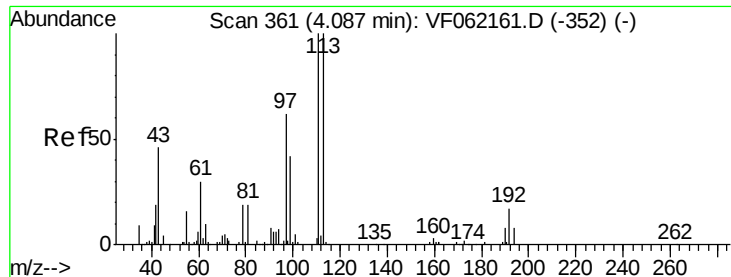


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 24.110 ug/l

RT: 4.09 min Scan# 361

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

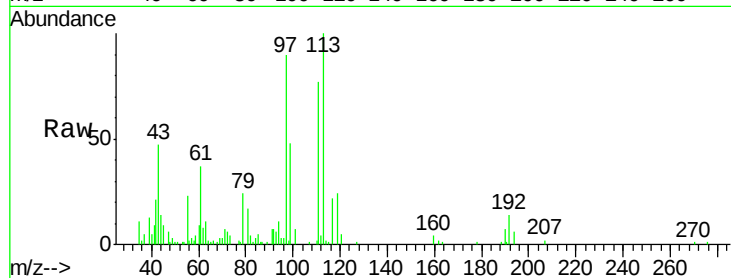
Tgt Ion: 43 Resp: 33614

Ion Ratio Lower Upper

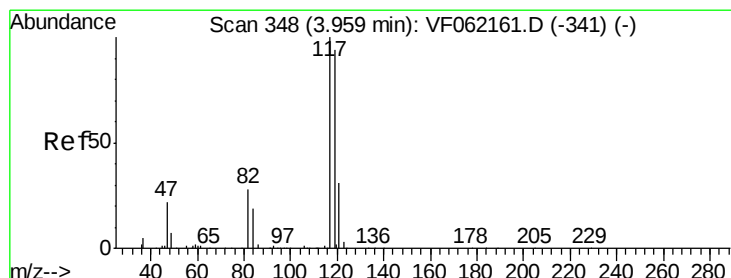
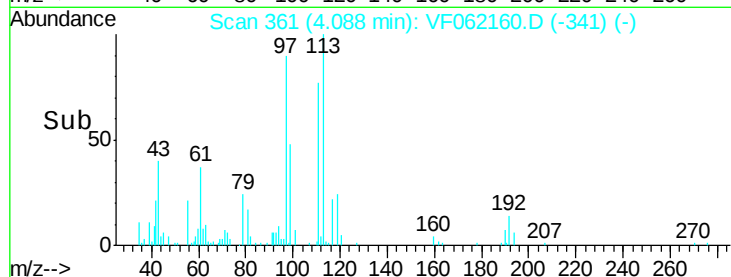
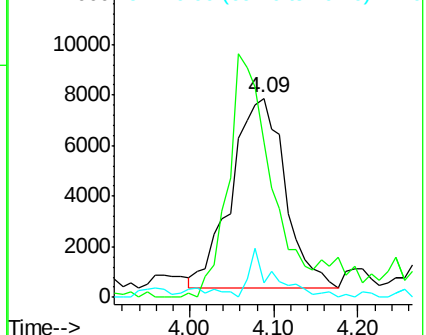
43 100

61 77.7 52.3 78.5

70 7.0 6.4 9.6



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: 28.159 ug/l

RT: 3.96 min Scan# 348

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

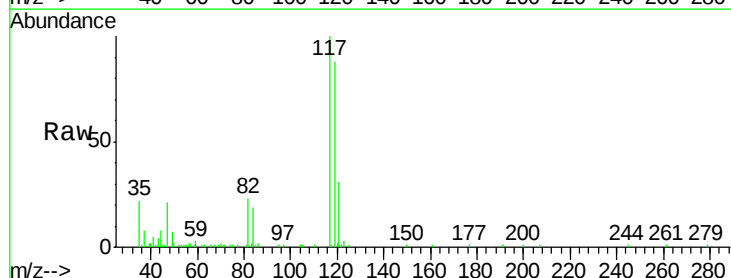
Tgt Ion: 117 Resp: 62907

Ion Ratio Lower Upper

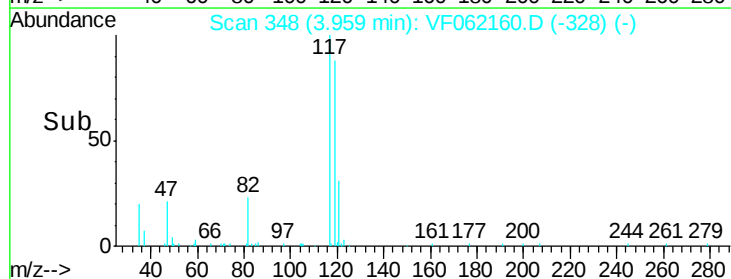
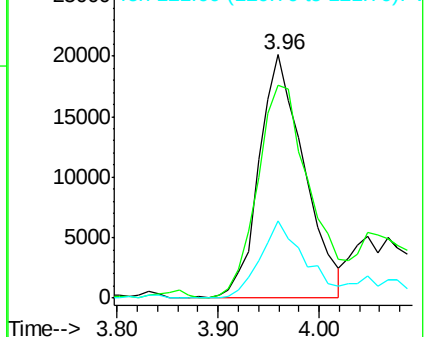
117 100

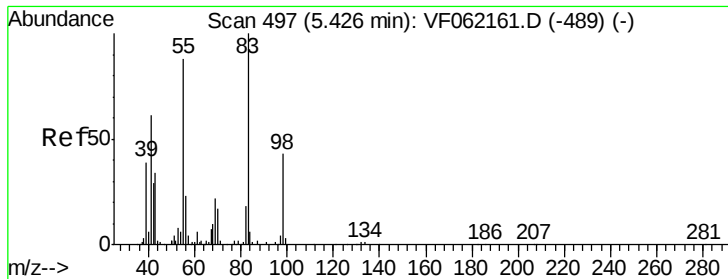
119 87.5 75.5 113.3

121 31.5 24.6 37.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

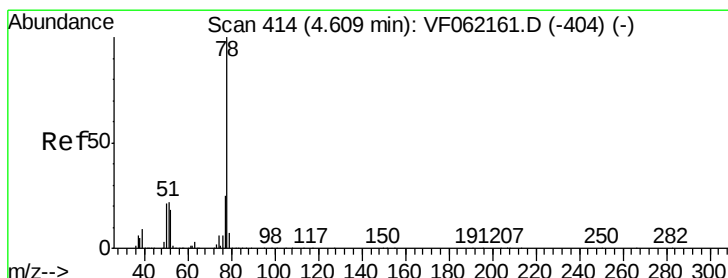
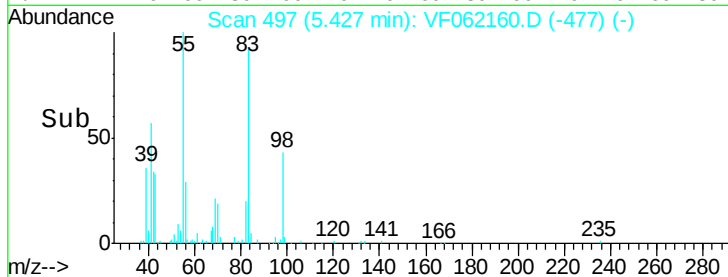
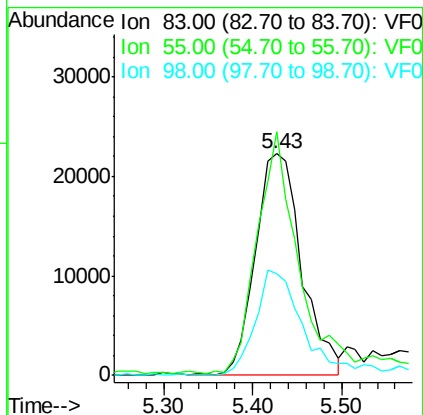
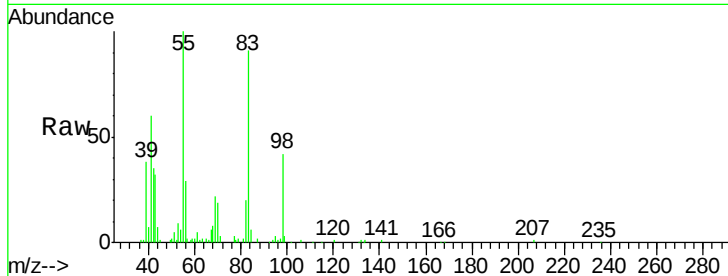




#39
Methylcyclohexane
Concen: 22.505 ug/l
RT: 5.43 min Scan# 497
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

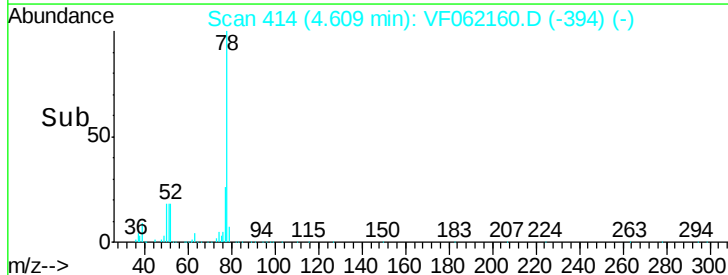
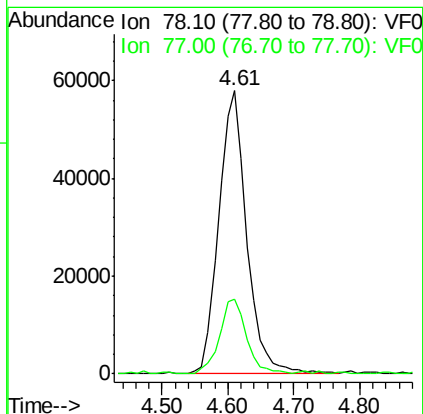
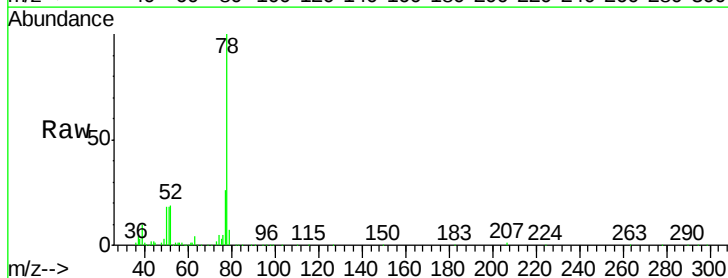
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

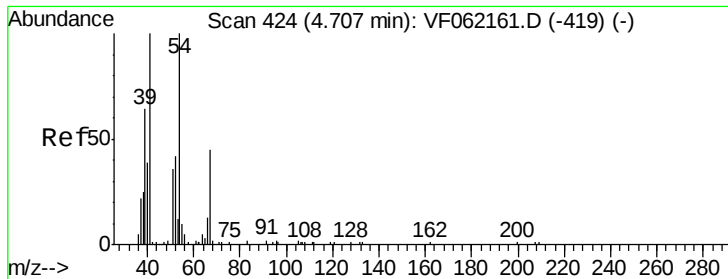
Tgt Ion: 83 Resp: 80258
Ion Ratio Lower Upper
83 100
55 109.9 70.7 106.1#
98 45.9 34.6 51.8



#40
Benzene
Concen: 20.591 ug/l
RT: 4.61 min Scan# 414
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 78 Resp: 171037
Ion Ratio Lower Upper
78 100
77 26.3 19.9 29.9





#41

Methacrylonitrile

Concen: 22.648 ug/l

RT: 4.73 min Scan# 426

Delta R.T. 0.02 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 16785

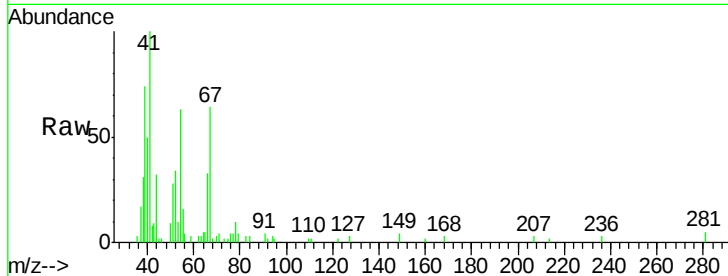
Ion Ratio Lower Upper

41 100

39 74.4 56.5 84.7

67 64.5 35.7 53.5#

52 33.9 42.2 63.4#



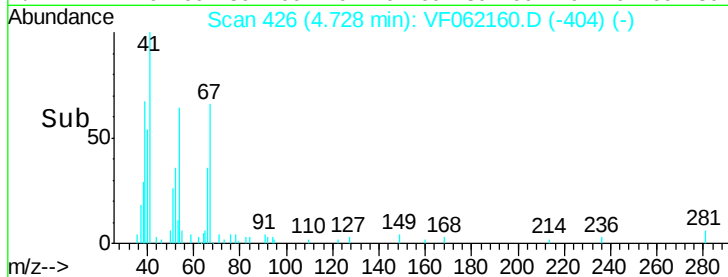
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

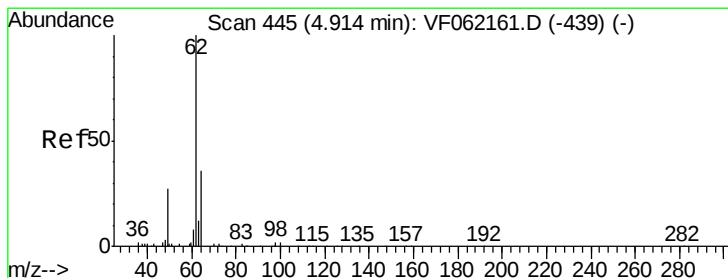
Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Time-->



Time-->



#42

1,2-Dichloroethane

Concen: 31.303 ug/l

RT: 4.91 min Scan# 445

Delta R.T. 0.00 min

Lab File: VF062160.D

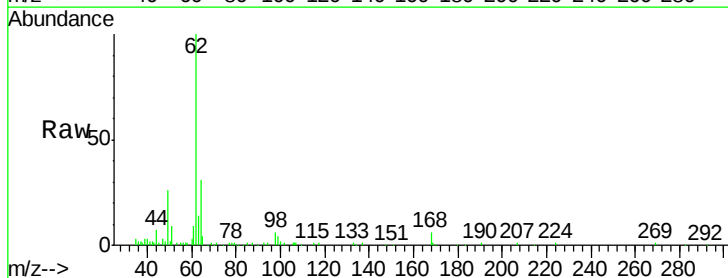
Acq: 4 Apr 2019 16:37

Tgt Ion: 62 Resp: 66632

Ion Ratio Lower Upper

62 100

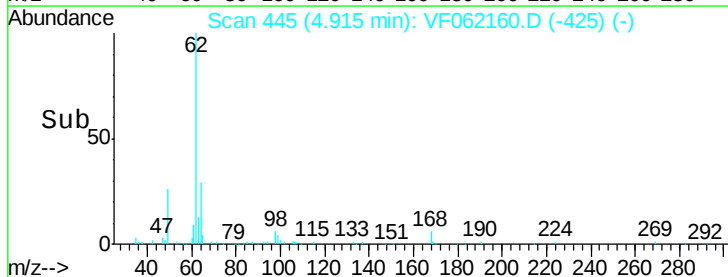
98 6.3 0.0 14.2



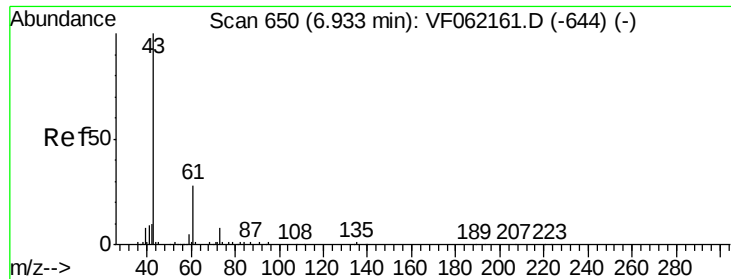
Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Time-->



Time-->



#43

Isopropyl Acetate

Concen: 24.186 ug/l

RT: 6.93 min Scan# 650

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

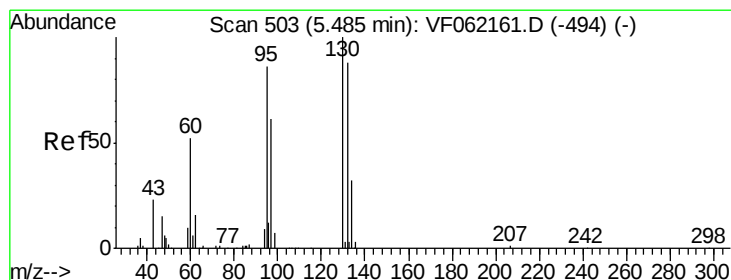
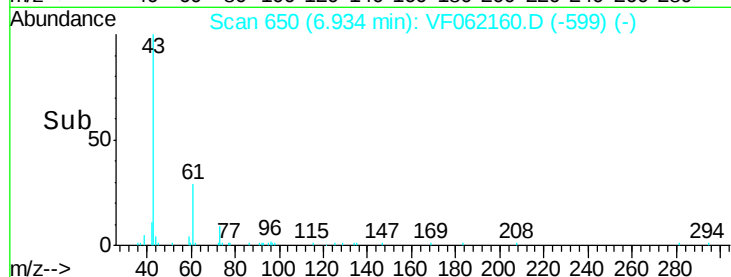
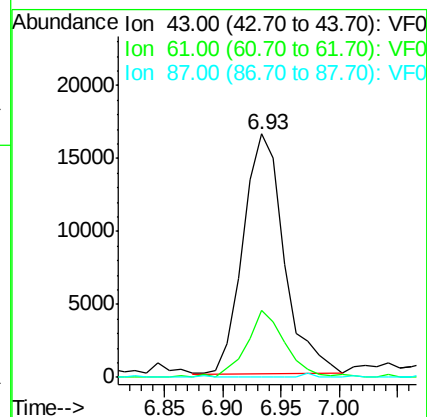
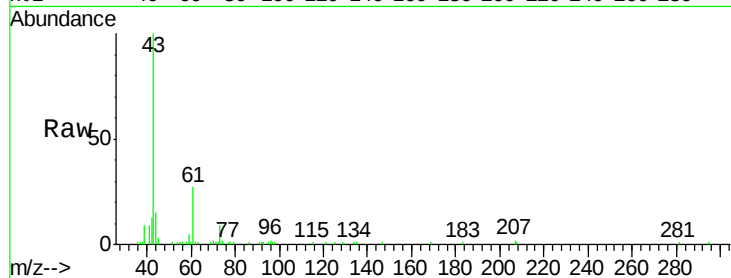
Tgt Ion: 43 Resp: 40140

Ion Ratio Lower Upper

43 100

61 27.5 22.5 33.7

87 0.0 0.5 0.7#



#44

Trichloroethene

Concen: 20.920 ug/l

RT: 5.48 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF062160.D

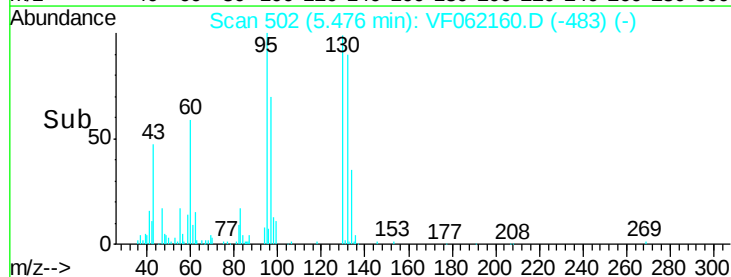
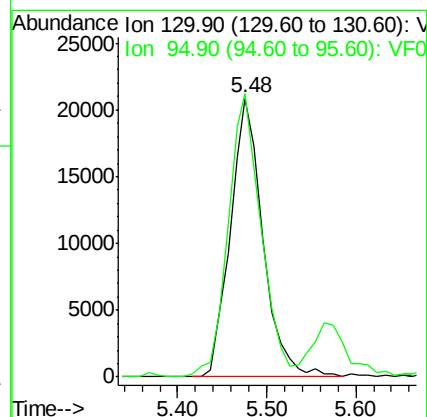
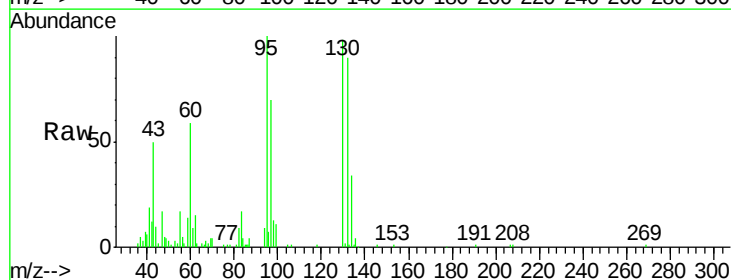
Acq: 4 Apr 2019 16:37

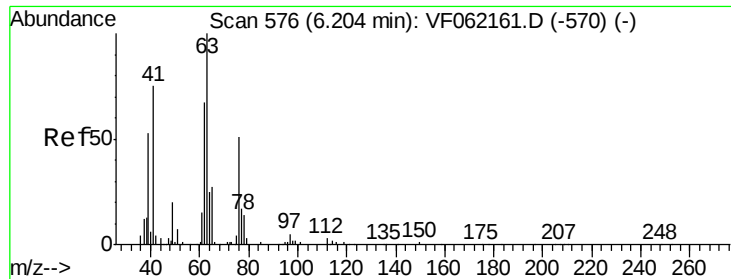
Tgt Ion: 130 Resp: 53276

Ion Ratio Lower Upper

130 100

95 101.7 0.0 172.2





#45

1,2-Dichloropropane

Concen: 20.732 ug/l

RT: 6.21 min Scan# 577

Delta R.T. 0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

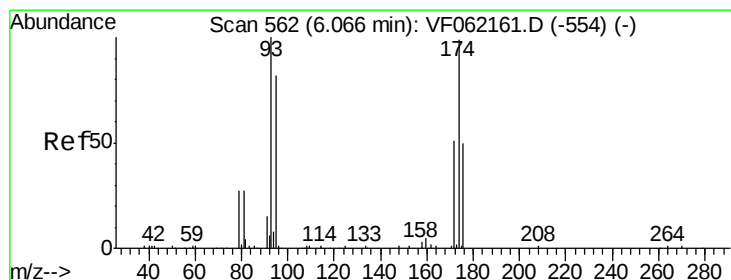
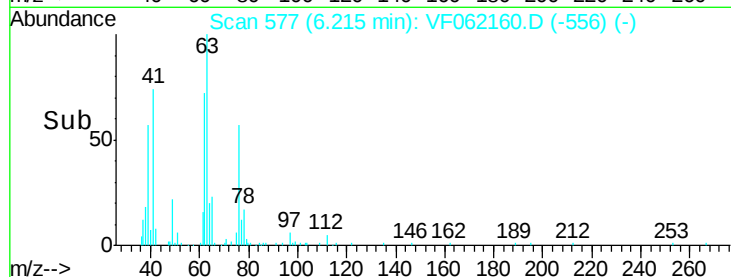
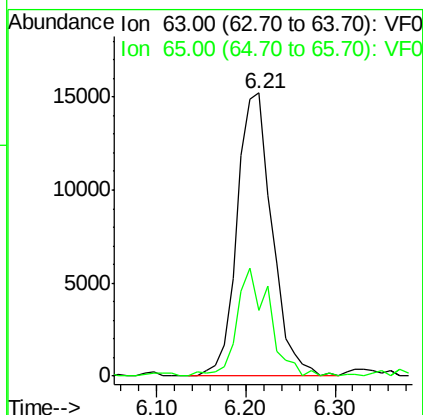
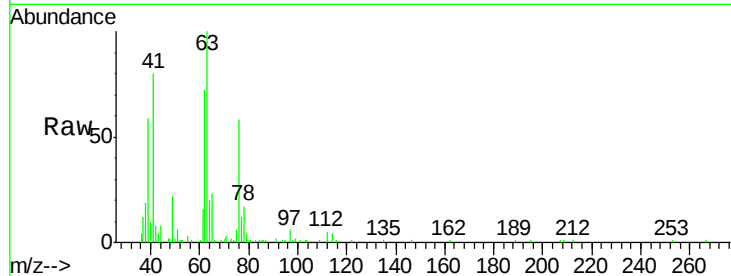
VSTDIC020

Tgt Ion: 63 Resp: 41387

Ion Ratio Lower Upper

63 100

65 23.2 21.8 32.6



#46

Dibromomethane

Concen: 21.581 ug/l

RT: 6.07 min Scan# 562

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

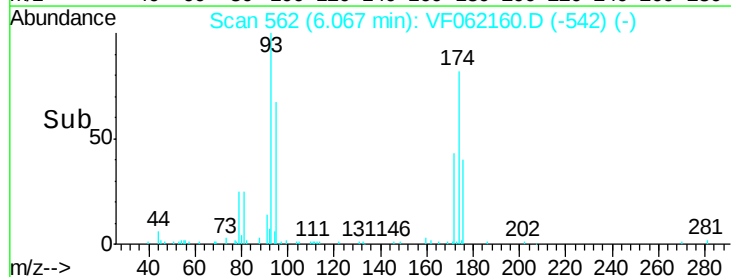
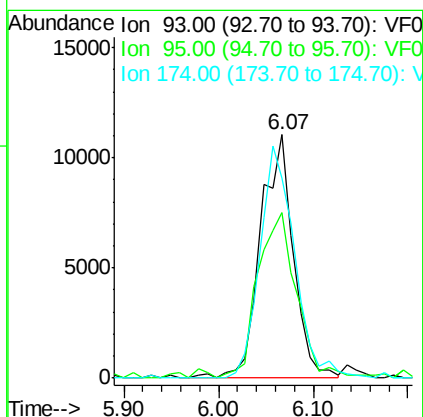
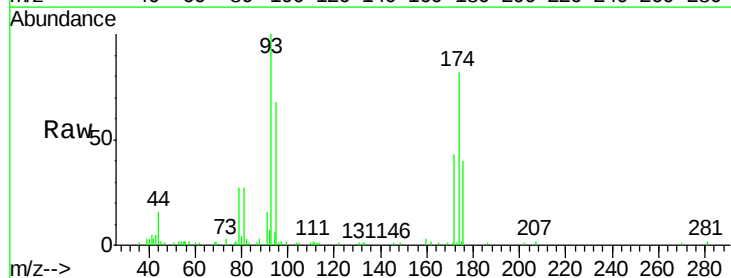
Tgt Ion: 93 Resp: 26661

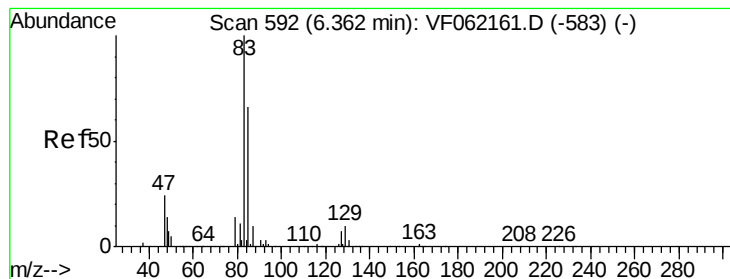
Ion Ratio Lower Upper

93 100

95 67.8 66.5 99.7

174 82.1 79.2 118.8





#47

Bromodichloromethane

Concen: 24.735 ug/l

RT: 6.35 min Scan# 591

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

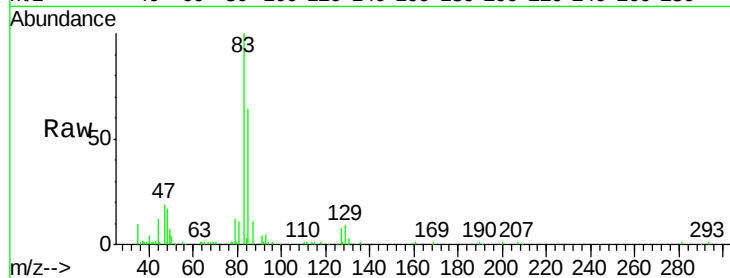
Tgt Ion: 83 Resp: 69880

Ion Ratio Lower Upper

83 100

85 64.2 52.9 79.3

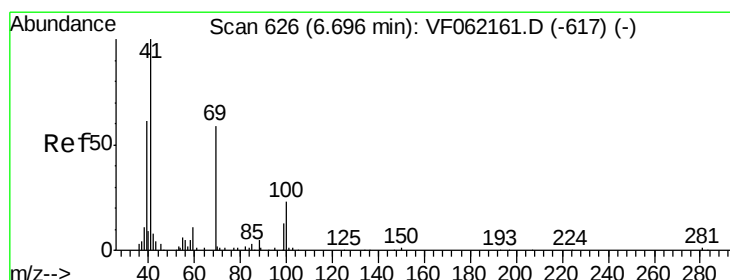
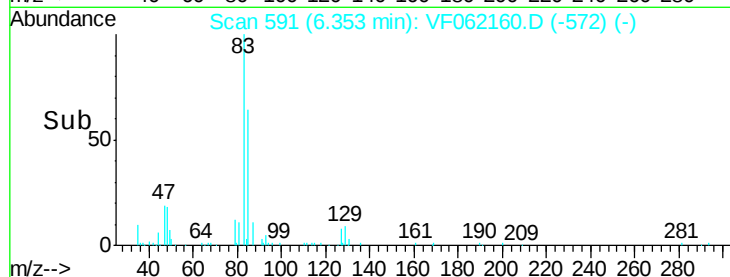
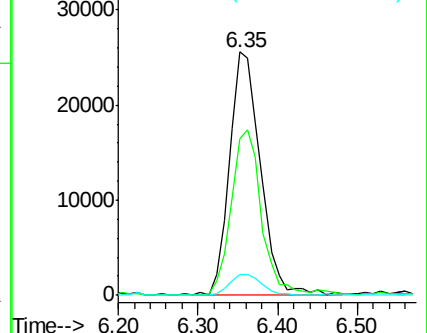
127 8.3 5.9 8.9



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: 29.681 ug/l

RT: 6.69 min Scan# 625

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

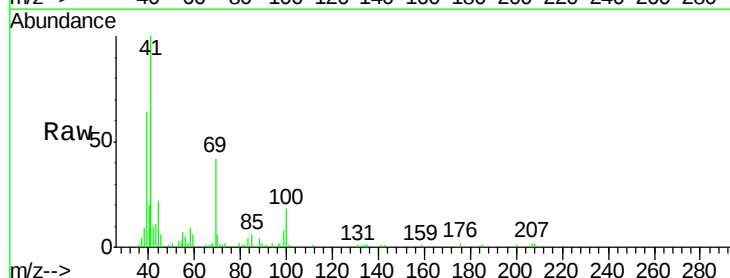
Tgt Ion: 41 Resp: 29661

Ion Ratio Lower Upper

41 100

69 42.1 46.7 70.1#

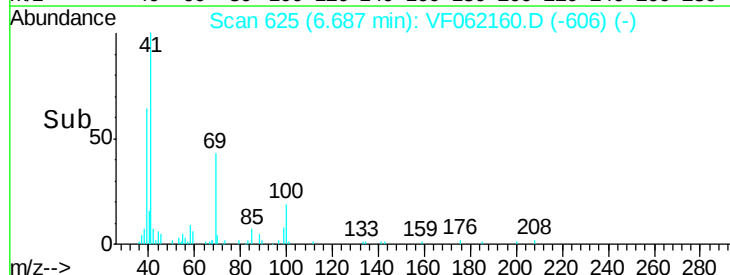
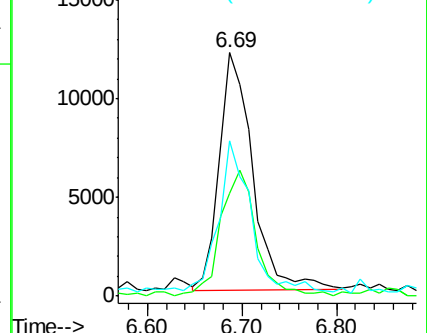
39 63.6 51.4 77.0

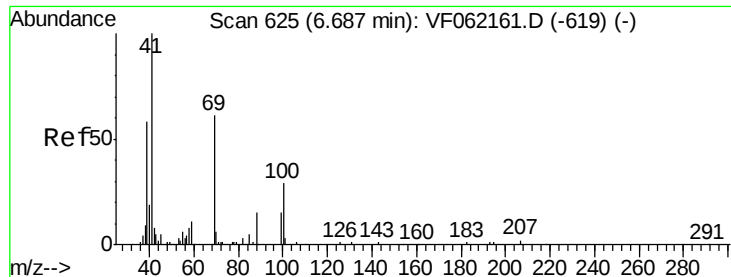


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 377.548 ug/l

RT: 6.67 min Scan# 623

Delta R.T. -0.02 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

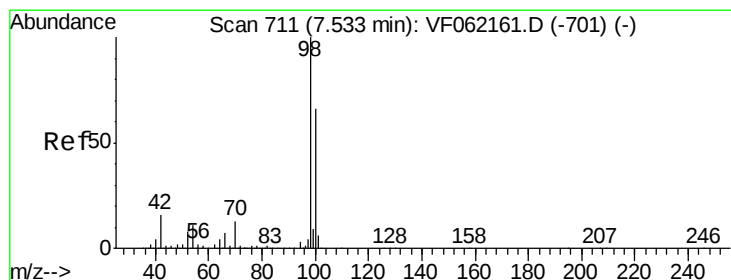
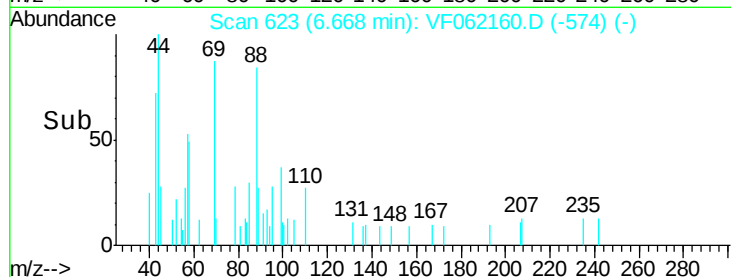
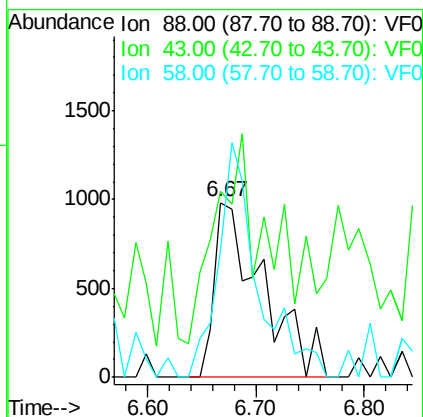
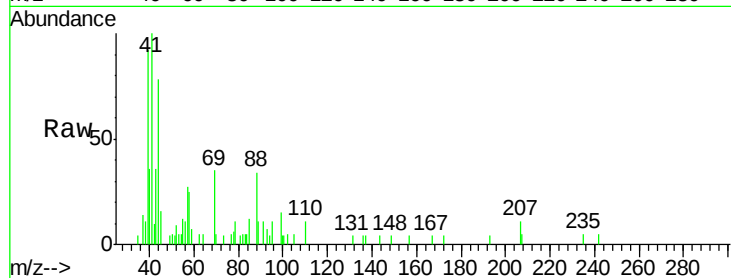
Tgt Ion: 88 Resp: 3053

Ion Ratio Lower Upper

88 100

43 106.5 51.0 76.6#

58 72.6 41.3 61.9#



#50

Toluene-d8

Concen: 20.026 ug/l

RT: 7.52 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF062160.D

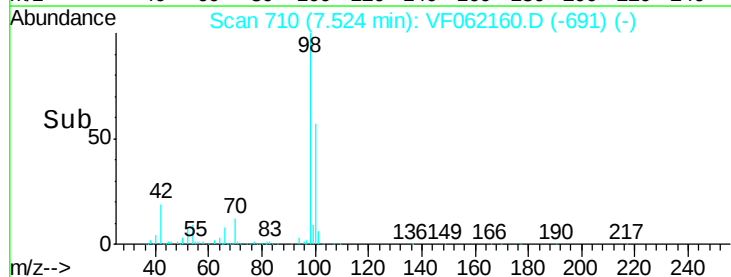
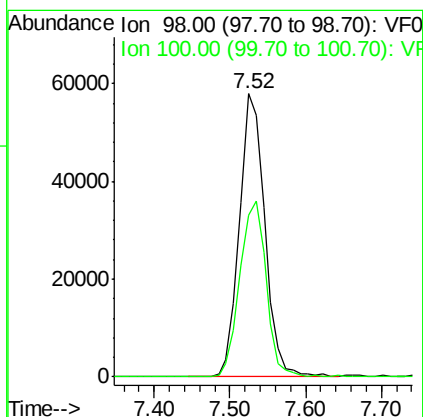
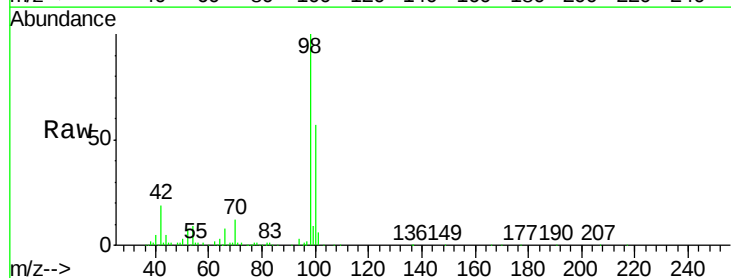
Acq: 4 Apr 2019 16:37

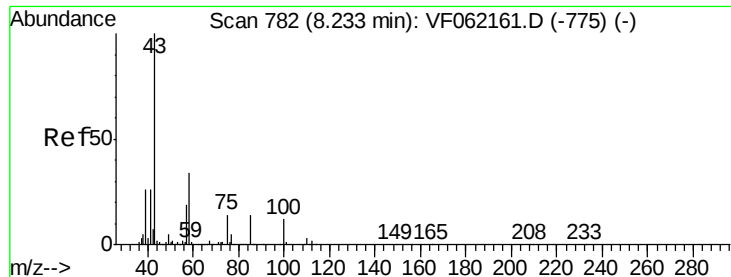
Tgt Ion: 98 Resp: 134850

Ion Ratio Lower Upper

98 100

100 57.0 52.6 78.8

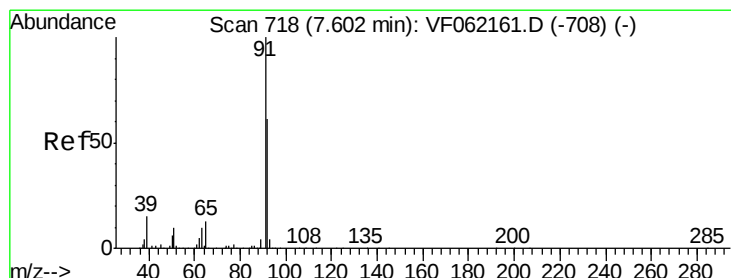
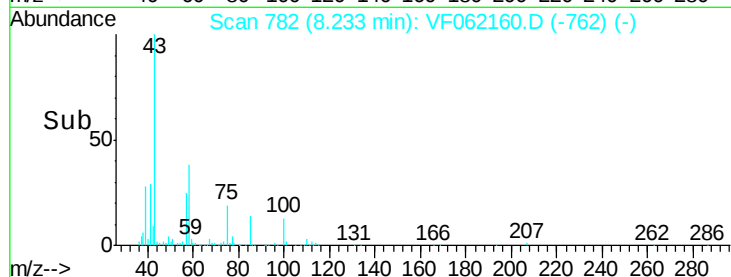
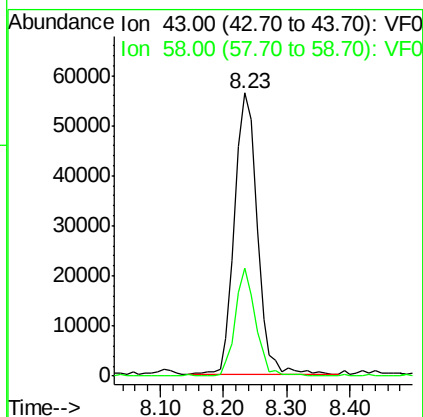
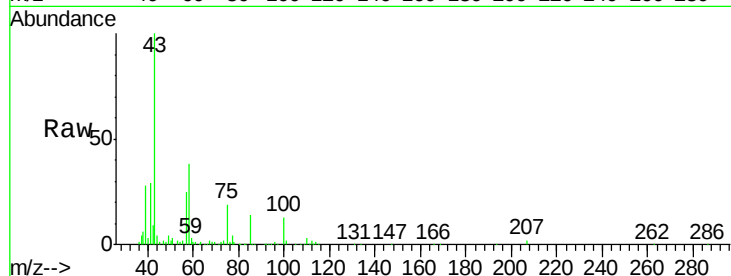




#51
 4-Methyl-2-Pentanone
 Concen: 123.746 ug/l
 RT: 8.23 min Scan# 782
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

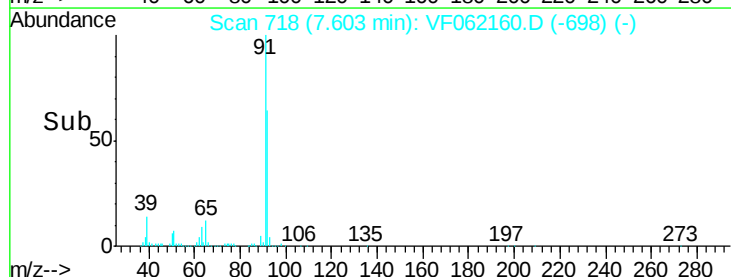
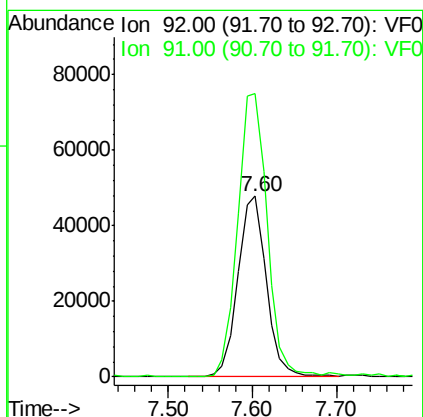
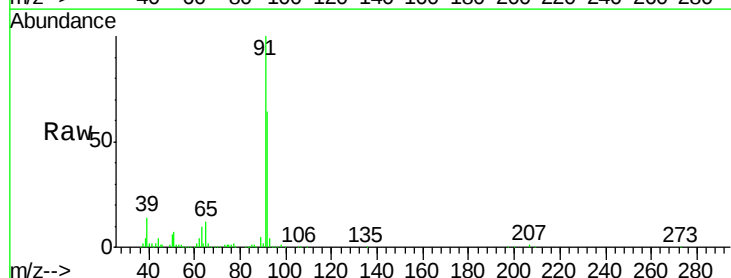
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

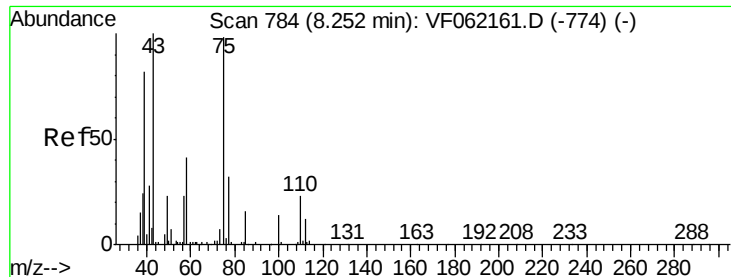
Tgt Ion: 43 Resp: 140687
 Ion Ratio Lower Upper
 43 100
 58 38.4 27.0 40.4



#52
 Toluene
 Concen: 23.070 ug/l
 RT: 7.60 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion: 92 Resp: 113013
 Ion Ratio Lower Upper
 92 100
 91 156.8 130.8 196.2

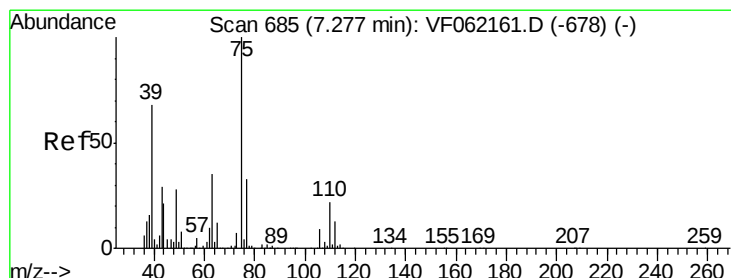
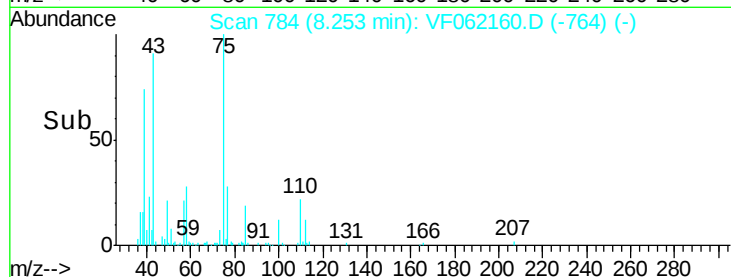
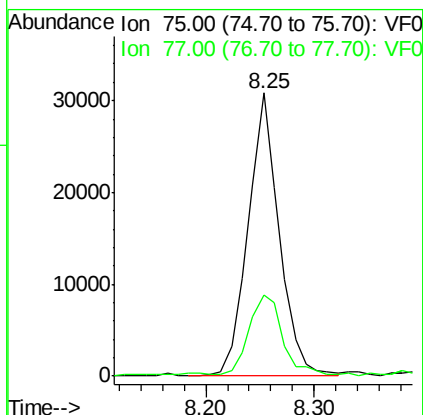
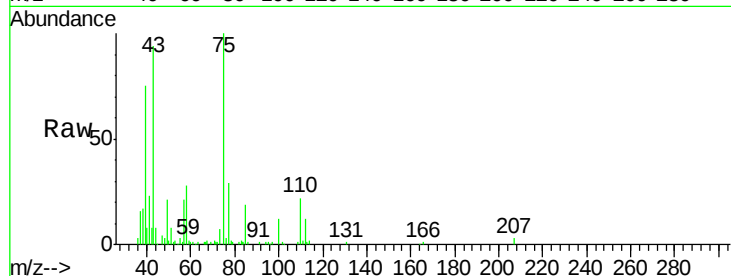




#53
t-1,3-Dichloropropene
Concen: 27.445 ug/l
RT: 8.25 min Scan# 784
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

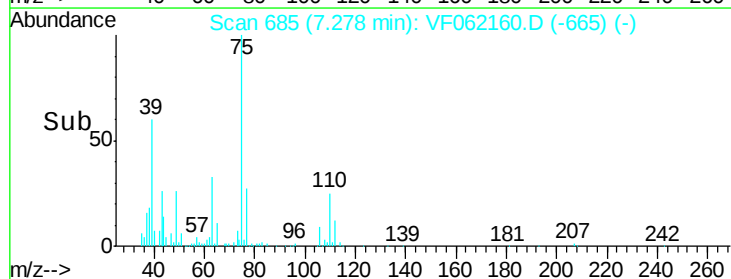
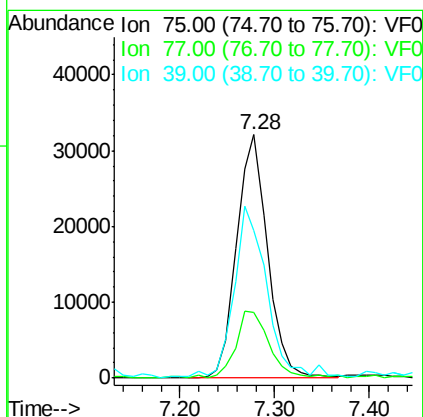
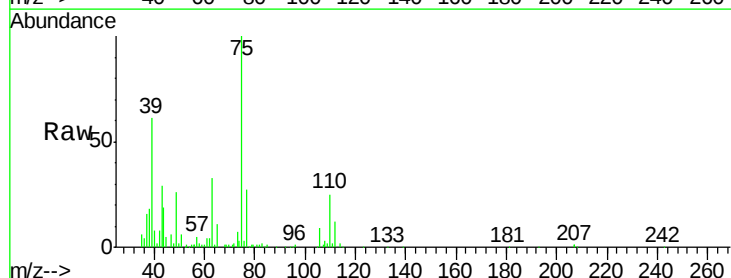
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

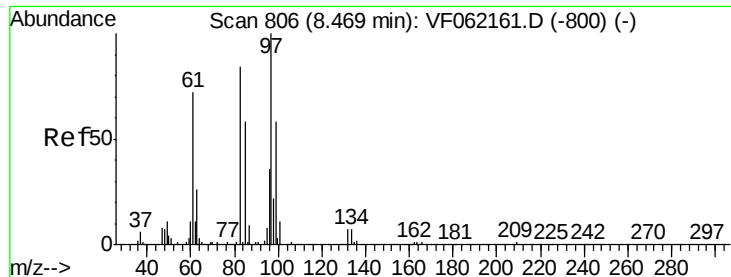
Tgt Ion: 75 Resp: 61379
Ion Ratio Lower Upper
75 100
77 28.6 26.6 39.8



#54
cis-1,3-Dichloropropene
Concen: 23.517 ug/l
RT: 7.28 min Scan# 685
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 75 Resp: 72788
Ion Ratio Lower Upper
75 100
77 27.2 26.7 40.1
39 60.5 55.0 82.4





#55

1,1,2-Trichloroethane

Concen: 21.753 ug/l

RT: 8.46 min Scan# 805

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 29923

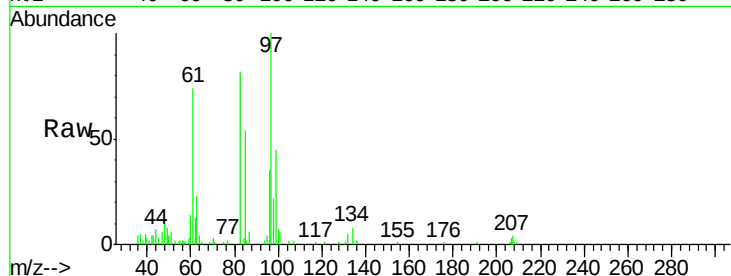
Ion Ratio Lower Upper

97 100

83 82.0 67.4 101.0

85 53.8 46.6 70.0

99 45.4 46.5 69.7#

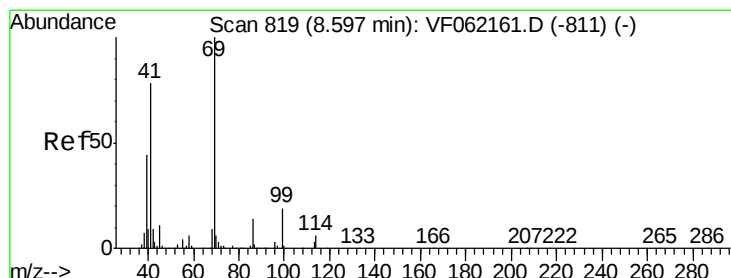
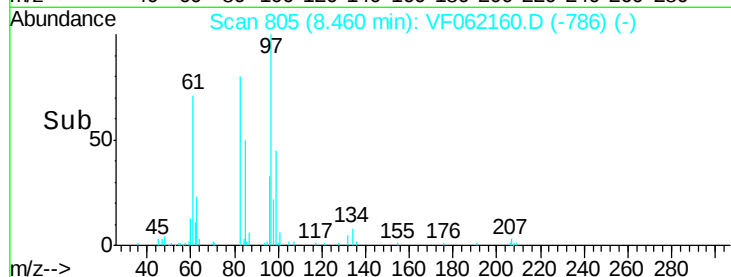
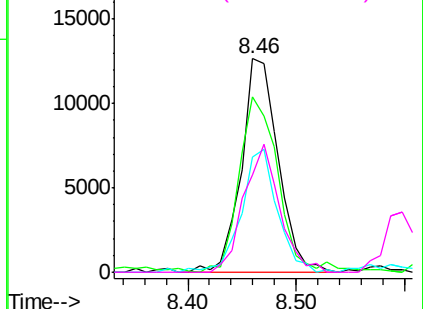


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 23.719 ug/l

RT: 8.60 min Scan# 819

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

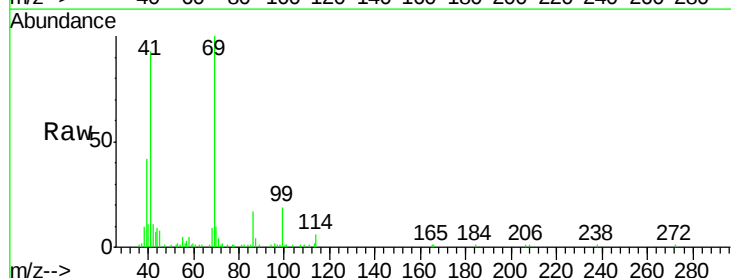
Tgt Ion: 69 Resp: 39694

Ion Ratio Lower Upper

69 100

41 93.2 63.0 94.4

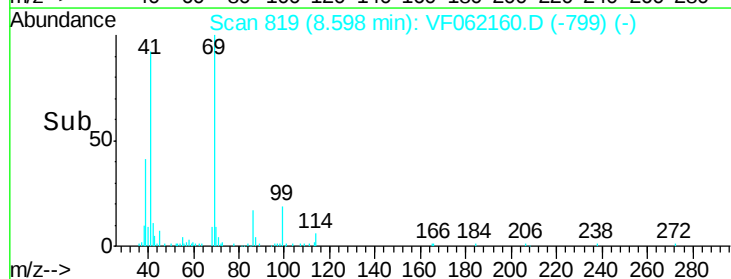
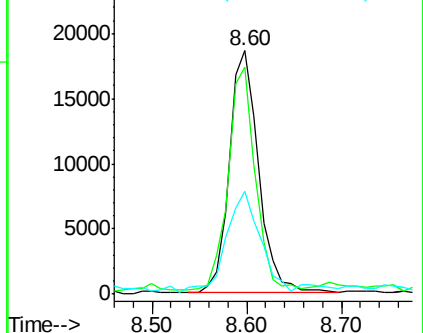
39 42.1 36.1 54.1

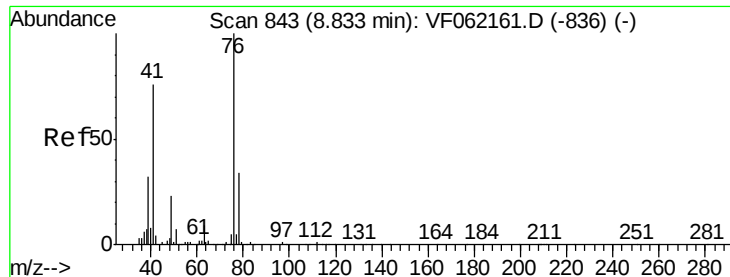


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.969 ug/l

RT: 8.82 min Scan# 842

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

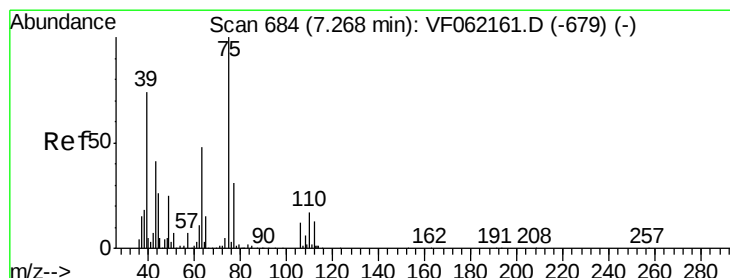
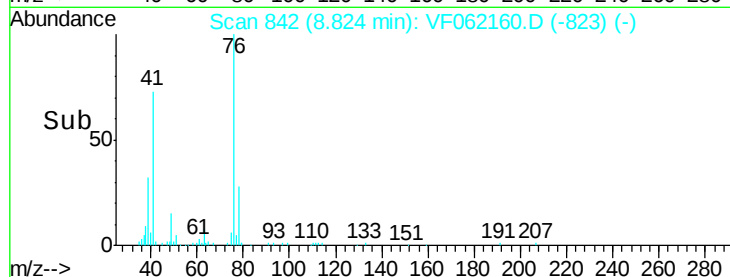
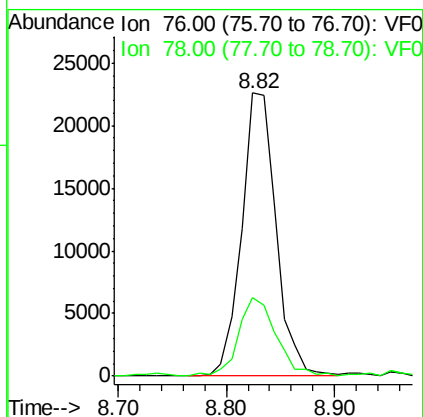
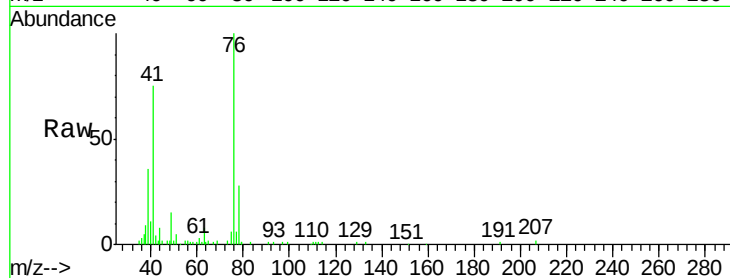
VSTDIC020

Tgt Ion: 76 Resp: 50128

Ion Ratio Lower Upper

76 100

78 27.7 27.4 41.2



#58

2-Chloroethyl Vinyl ether

Concen: 108.753 ug/l

RT: 7.27 min Scan# 684

Delta R.T. 0.00 min

Lab File: VF062160.D

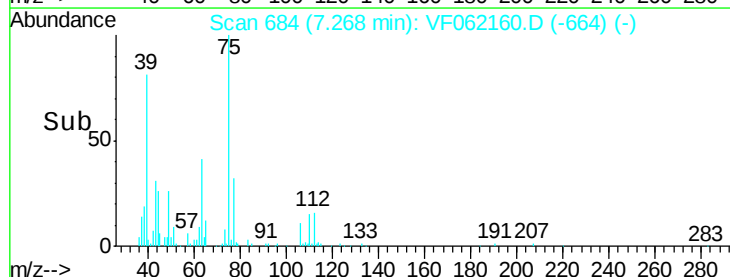
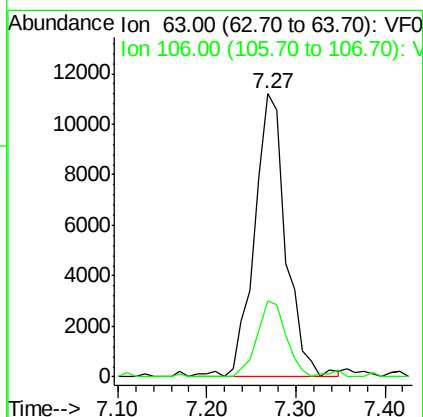
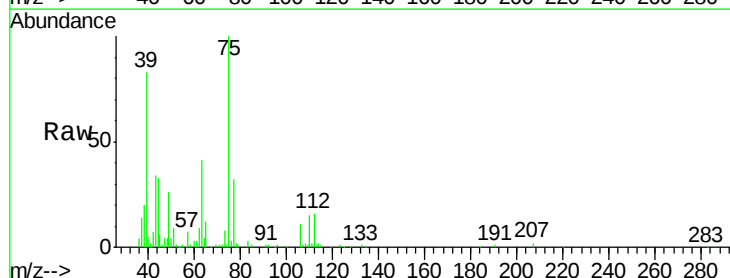
Acq: 4 Apr 2019 16:37

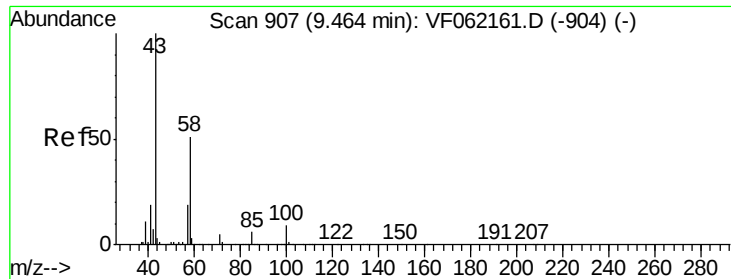
Tgt Ion: 63 Resp: 27331

Ion Ratio Lower Upper

63 100

106 27.1 20.6 31.0

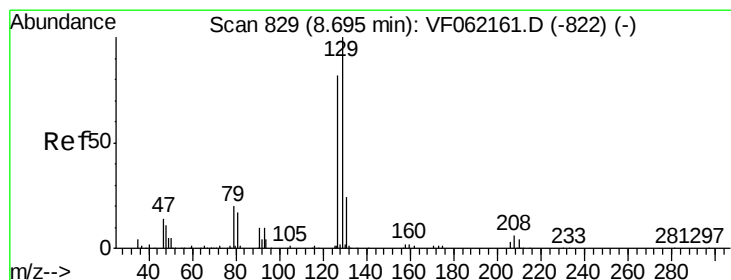
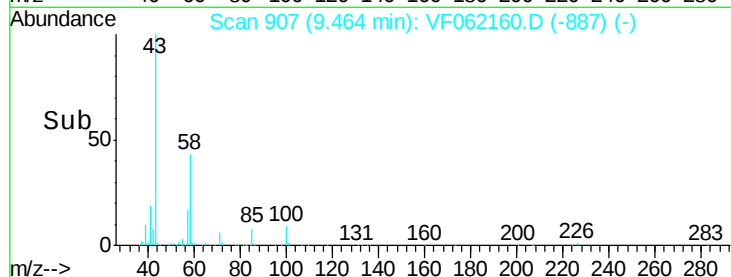
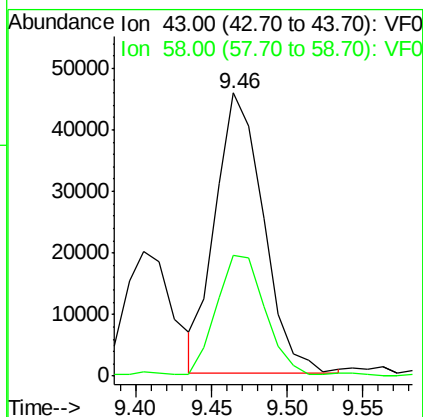
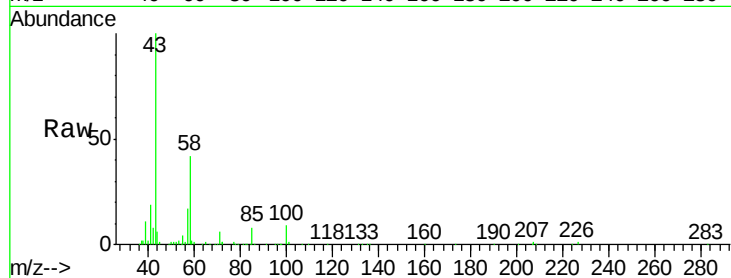




#59
2-Hexanone
Concen: 121.007 ug/l
RT: 9.46 min Scan# 907
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

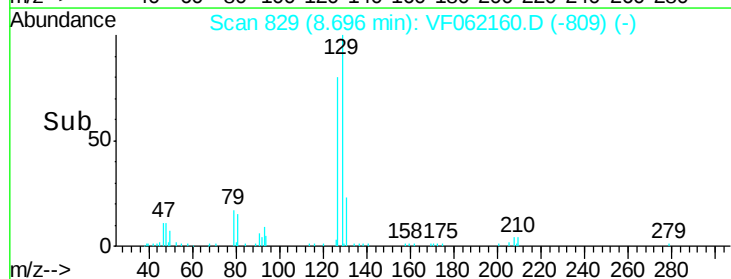
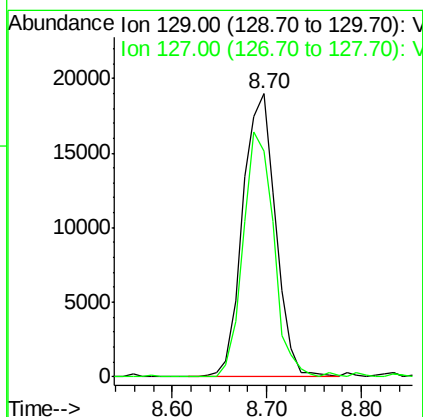
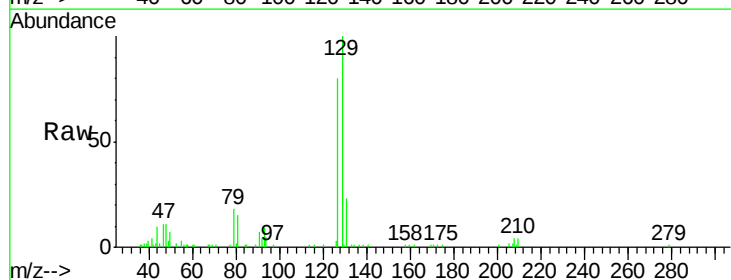
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

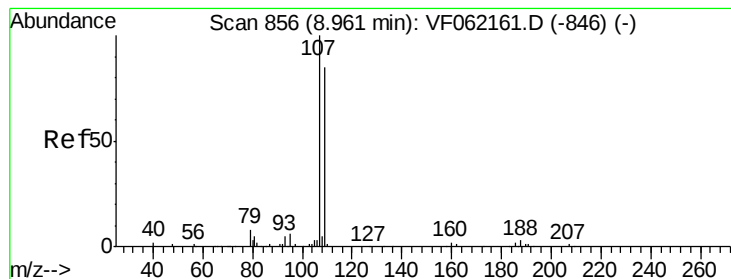
Tgt Ion: 43 Resp: 100146
Ion Ratio Lower Upper
43 100
58 42.5 23.3 69.9



#60
Dibromochloromethane
Concen: 23.590 ug/l
RT: 8.70 min Scan# 829
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion: 129 Resp: 45718
Ion Ratio Lower Upper
129 100
127 78.6 40.9 122.7





#61

1,2-Dibromoethane

Concen: 20.907 ug/l

RT: 8.96 min Scan# 856

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

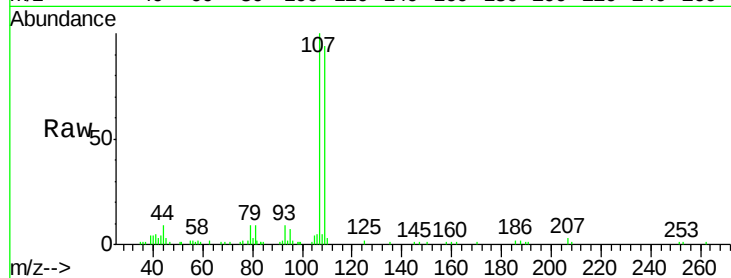
VSTDIC020

Tgt Ion: 107 Resp: 30649

Ion Ratio Lower Upper

107 100

109 93.6 68.4 102.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.96

15000

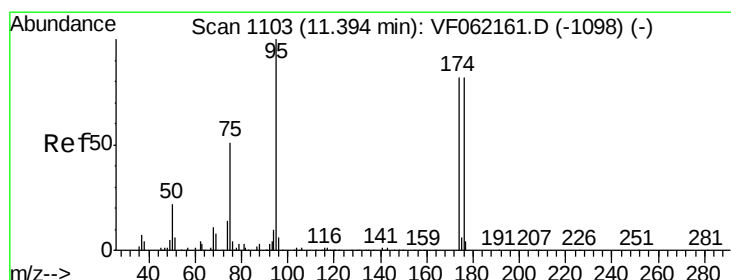
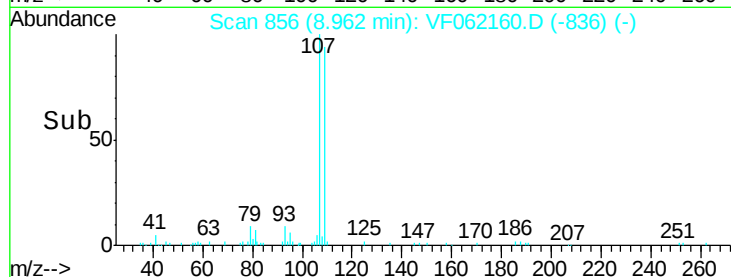
10000

5000

0

Time-->

8.85 8.90 8.95 9.00 9.05



#62

4-Bromofluorobenzene

Concen: 20.895 ug/l

RT: 11.39 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

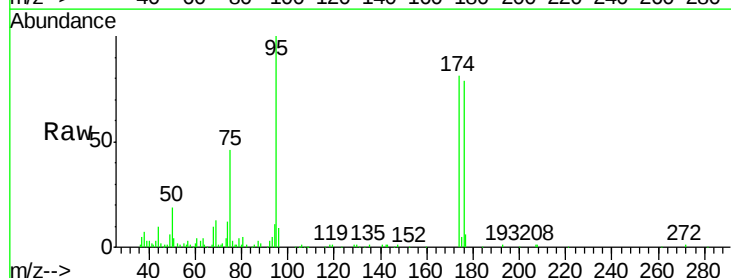
Tgt Ion: 95 Resp: 54786

Ion Ratio Lower Upper

95 100

174 80.7 0.0 164.8

176 78.7 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.39

40000

30000

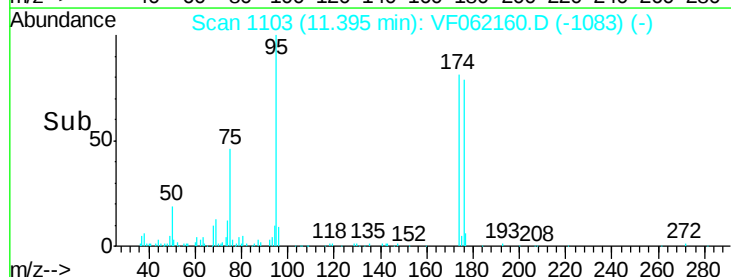
20000

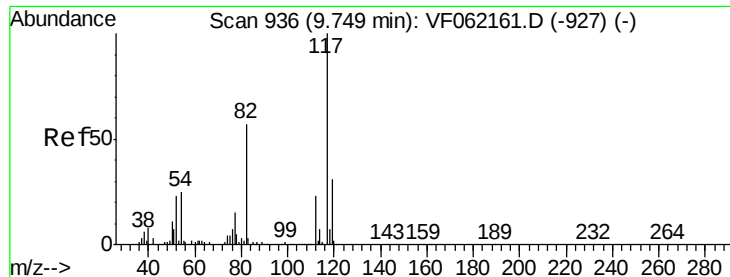
10000

0

Time-->

11.30 11.40 11.50

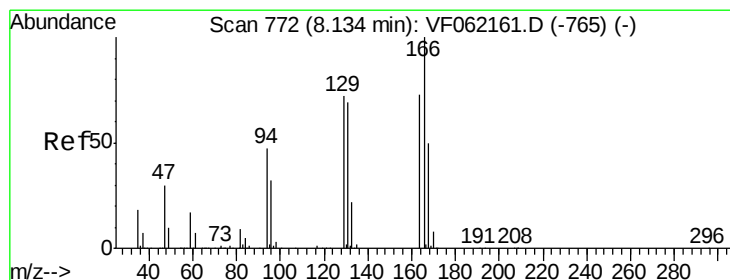
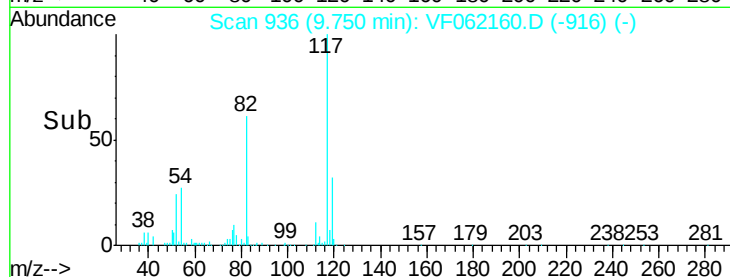
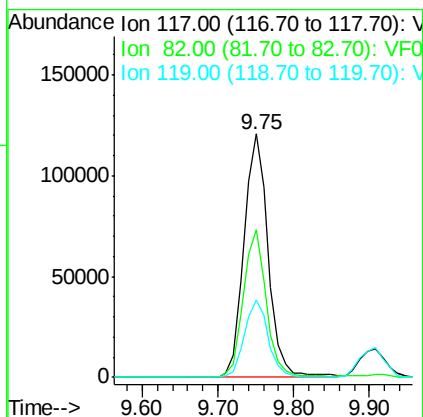
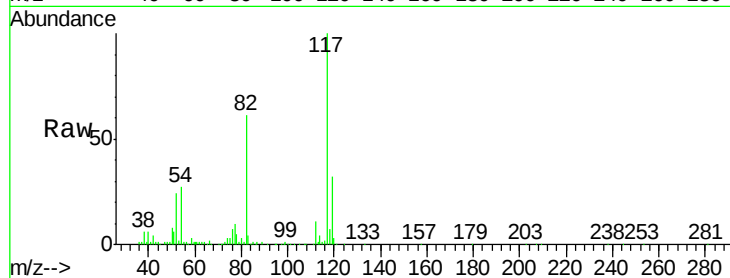




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 936
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

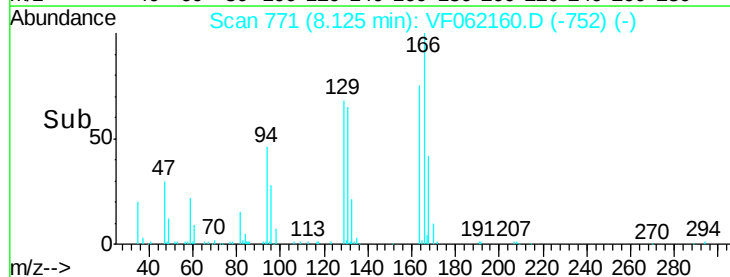
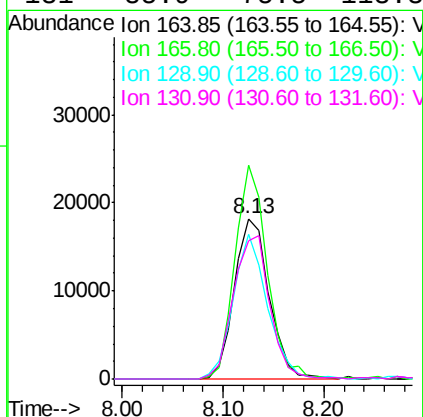
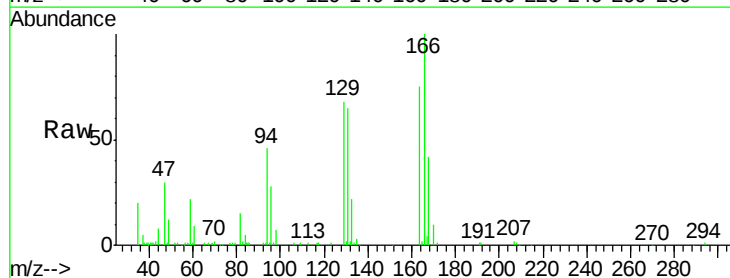
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

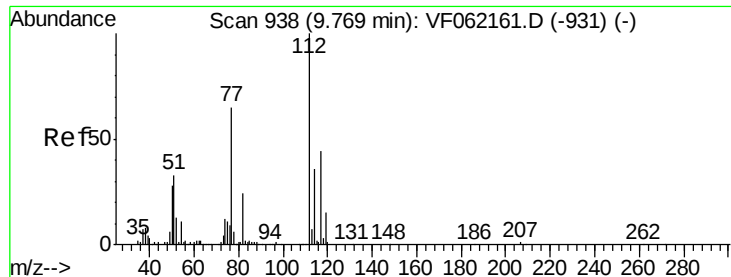
Tgt Ion:117 Resp: 266358
Ion Ratio Lower Upper
117 100
82 60.8 45.5 68.3
119 31.8 24.9 37.3



#64
Tetrachloroethene
Concen: 21.283 ug/l
RT: 8.13 min Scan# 771
Delta R.T. -0.01 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion:164 Resp: 43661
Ion Ratio Lower Upper
164 100
166 133.0 110.2 165.2
129 90.3 79.0 118.6
131 85.9 75.5 113.3

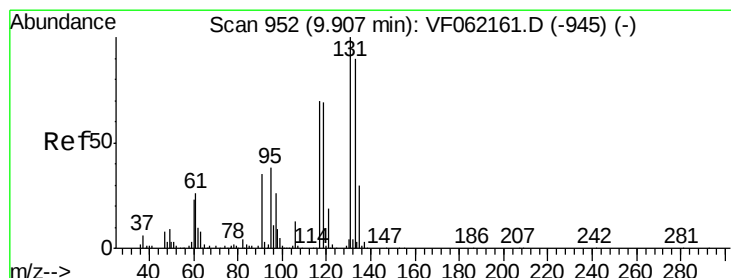
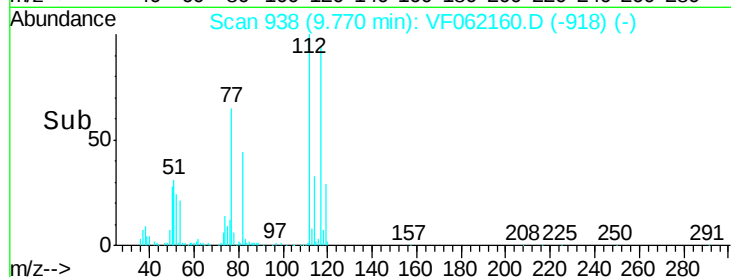
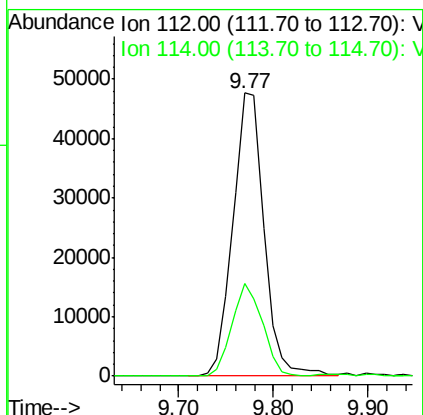
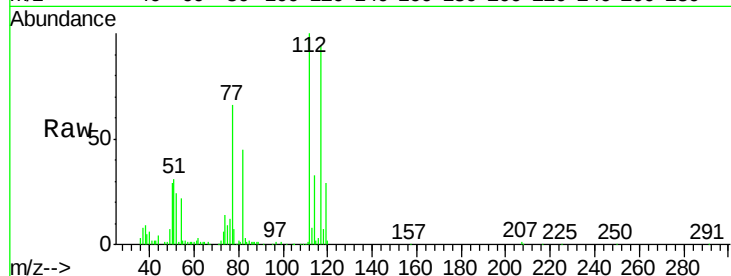




#65
Chlorobenzene
Concen: 21.613 ug/l
RT: 9.77 min Scan# 938
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

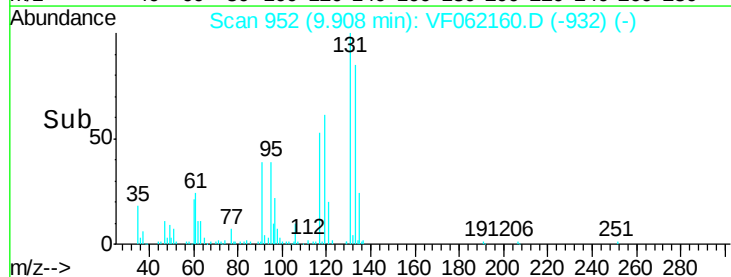
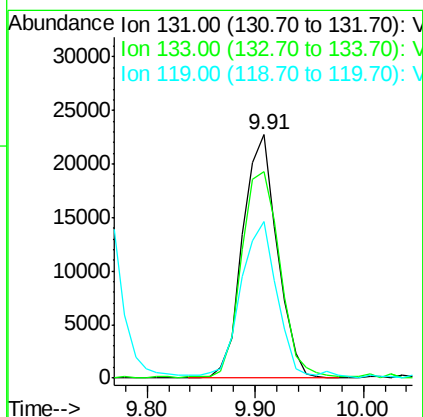
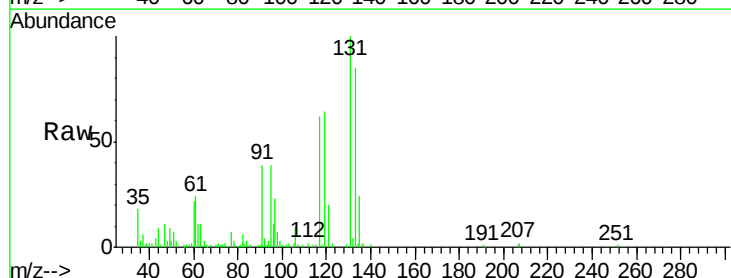
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

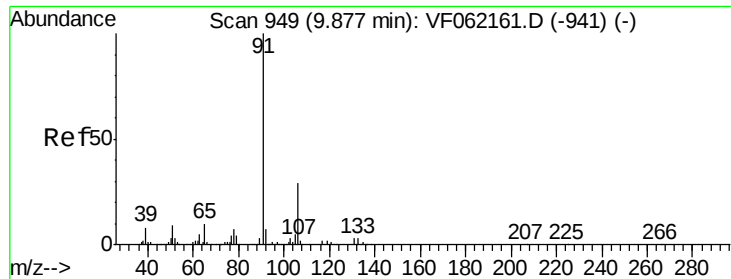
Tgt Ion:112 Resp: 108690
Ion Ratio Lower Upper
112 100
114 32.6 28.6 43.0



#66
1,1,1,2-Tetrachloroethane
Concen: 24.598 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion:131 Resp: 50480
Ion Ratio Lower Upper
131 100
133 85.1 45.1 135.3
119 64.1 34.9 104.7





#67

Ethyl Benzene

Concen: 24.300 ug/l

RT: 9.88 min Scan# 949

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

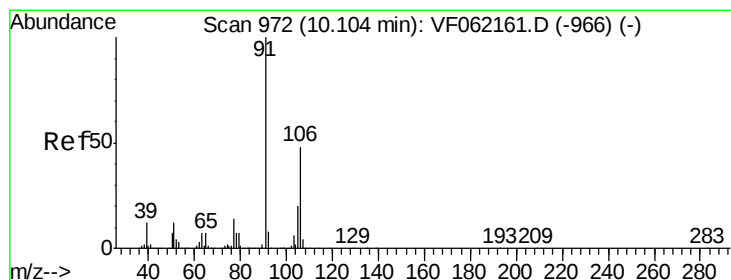
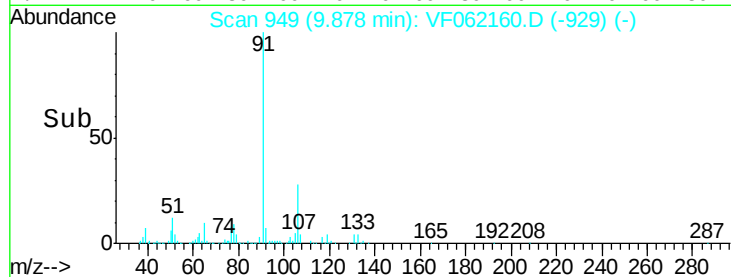
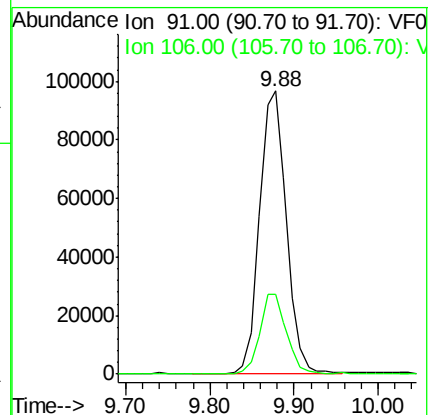
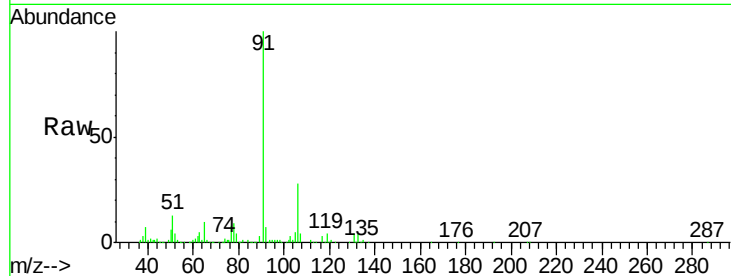
VSTDIC020

Tgt Ion: 91 Resp: 217383

Ion Ratio Lower Upper

91 100

106 28.4 23.2 34.8



#68

m/p-Xylenes

Concen: 47.486 ug/l

RT: 10.10 min Scan# 972

Delta R.T. 0.00 min

Lab File: VF062160.D

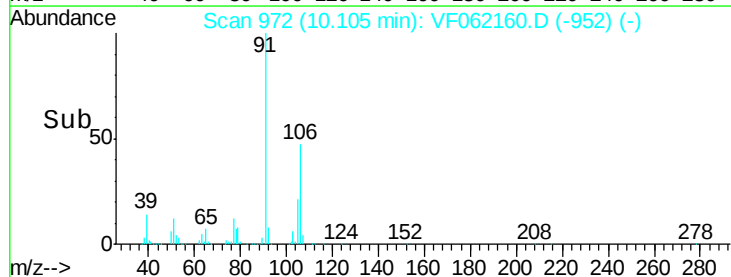
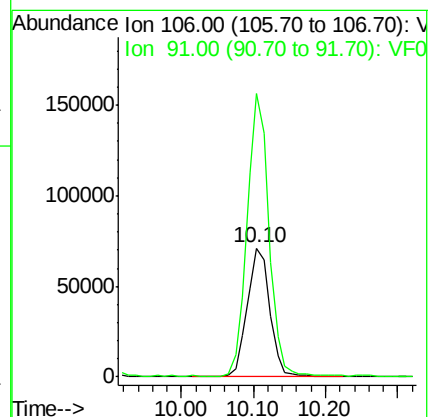
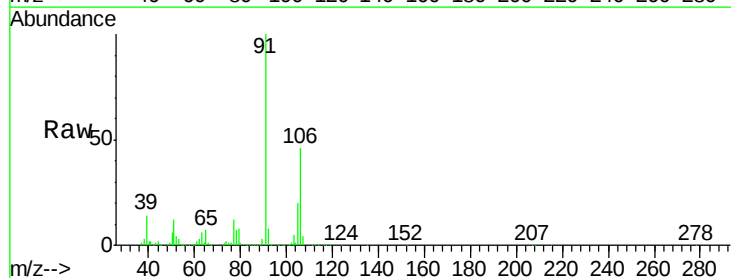
Acq: 4 Apr 2019 16:37

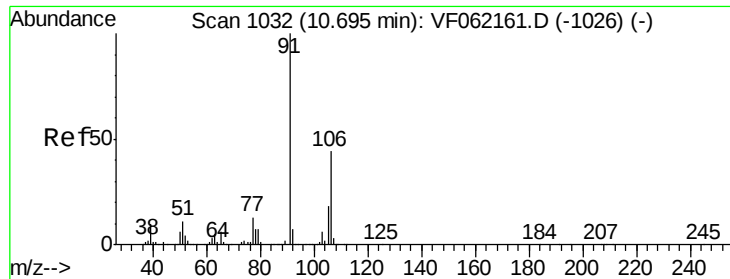
Tgt Ion: 106 Resp: 158069

Ion Ratio Lower Upper

106 100

91 219.2 167.3 250.9

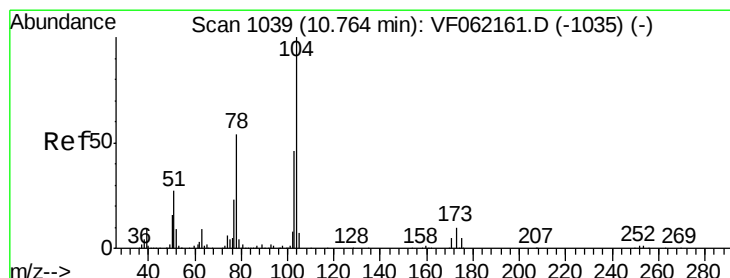
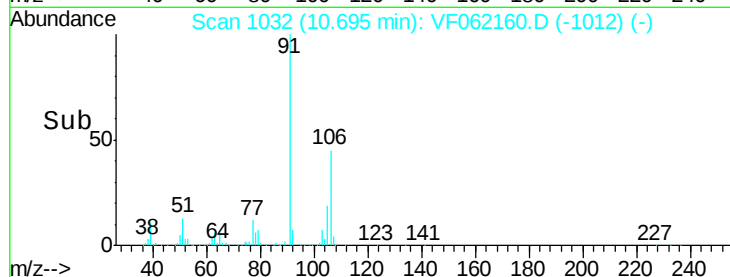
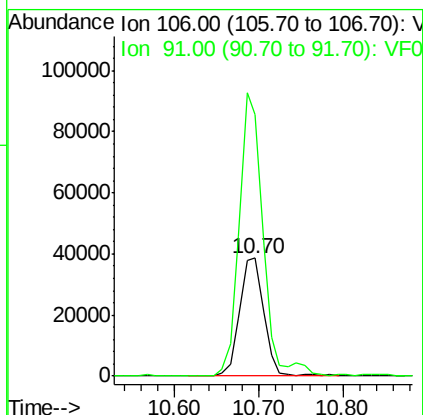
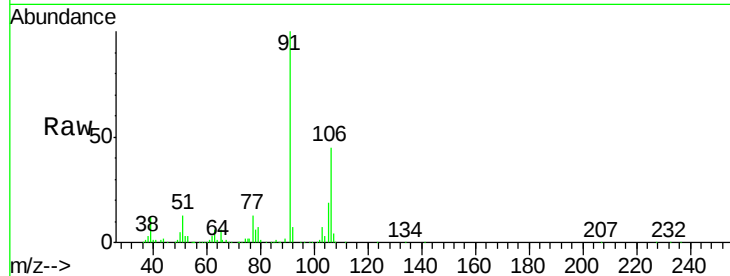




#69
o-Xylene
Concen: 22.919 ug/l
RT: 10.70 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

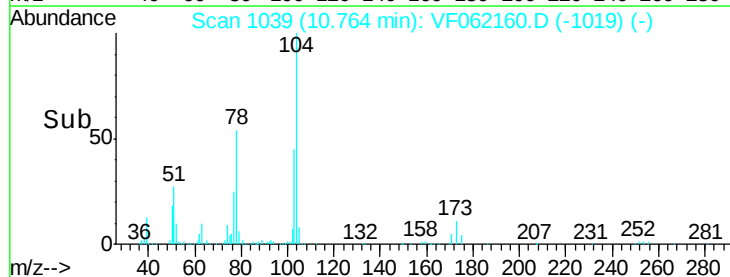
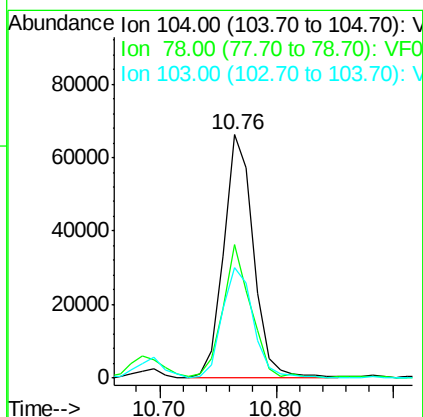
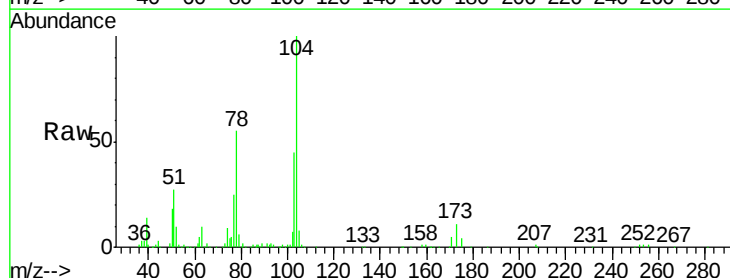
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

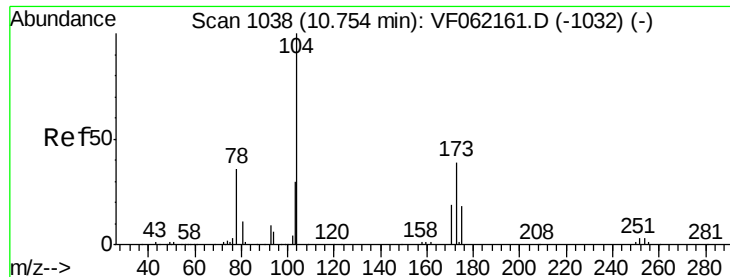
Tgt Ion:106 Resp: 78148
Ion Ratio Lower Upper
106 100
91 222.2 113.3 340.1



#70
Styrene
Concen: 22.139 ug/l
RT: 10.76 min Scan# 1039
Delta R.T. 0.00 min
Lab File: VF062160.D
Acq: 4 Apr 2019 16:37

Tgt Ion:104 Resp: 116541
Ion Ratio Lower Upper
104 100
78 54.6 43.1 64.7
103 45.2 37.0 55.6





#71

Bromoform

Concen: 24.243 ug/l

RT: 10.75 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

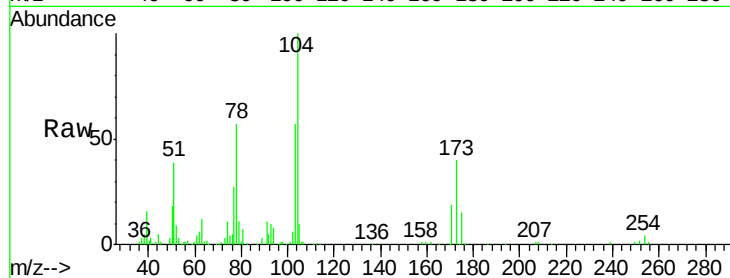
Tgt Ion:173 Resp: 25546

Ion Ratio Lower Upper

173 100

175 37.8 22.9 68.7

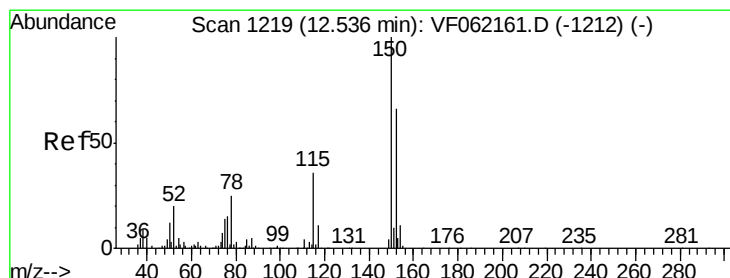
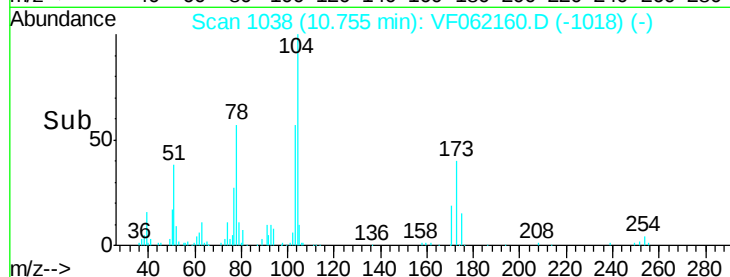
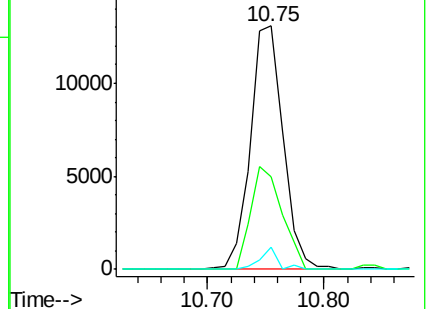
254 8.9 6.7 10.1



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: 50.000 ug/l

RT: 12.54 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

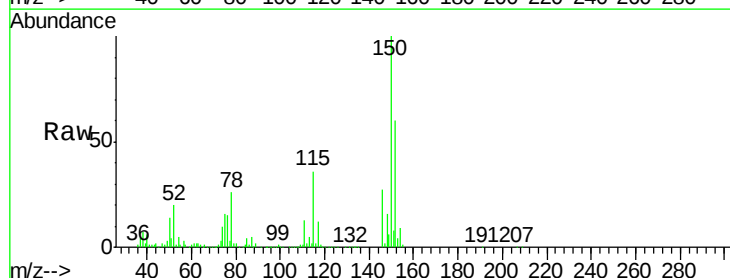
Tgt Ion:152 Resp: 139613

Ion Ratio Lower Upper

152 100

115 60.3 28.3 84.9

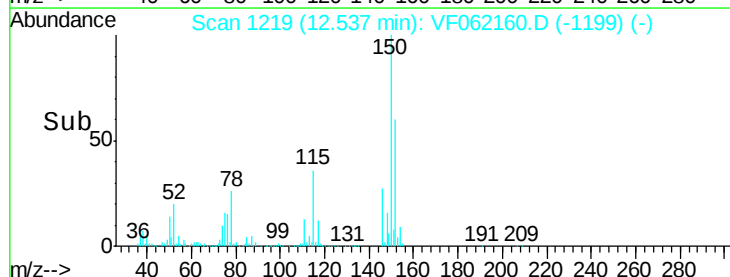
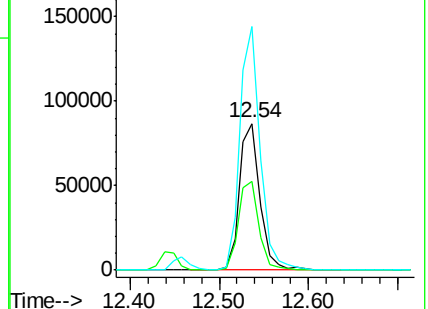
150 165.9 0.0 322.6

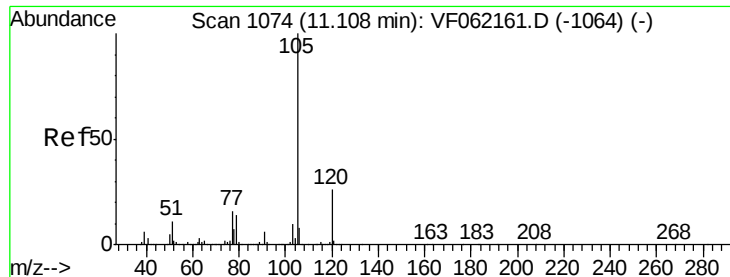


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 24.452 ug/l

RT: 11.11 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

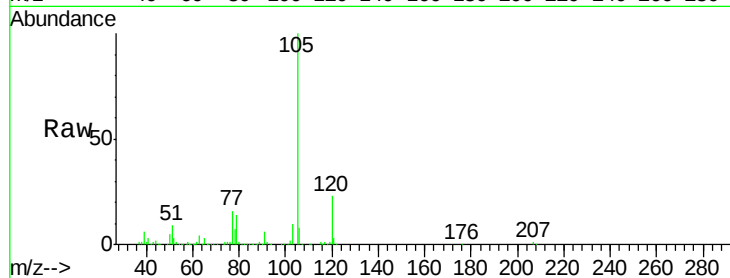
VSTDIC020

Tgt Ion:105 Resp: 244056

Ion Ratio Lower Upper

105 100

120 23.1 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

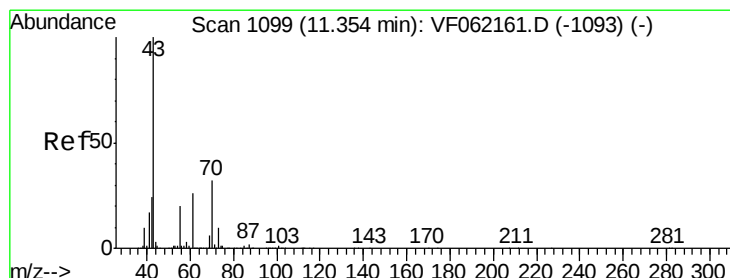
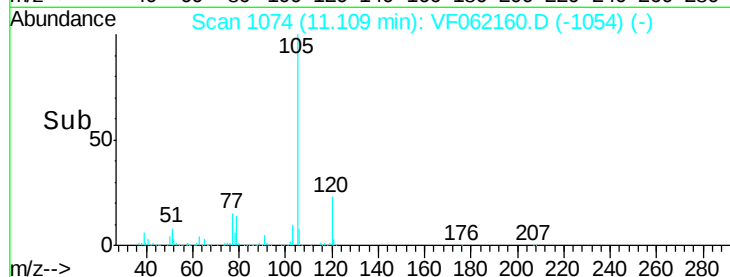
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 24.197 ug/l

RT: 11.36 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Tgt Ion: 43 Resp: 58597

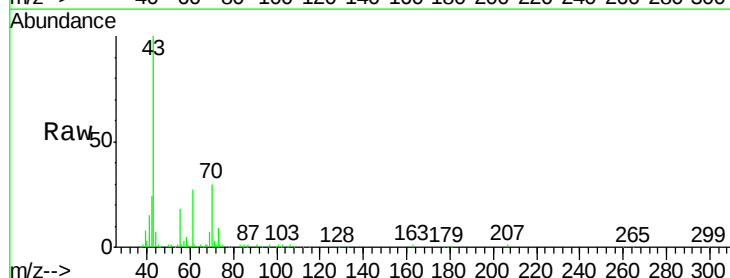
Ion Ratio Lower Upper

43 100

70 30.5 25.9 38.9

55 17.6 16.3 24.5

61 27.0 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.36

50000

40000

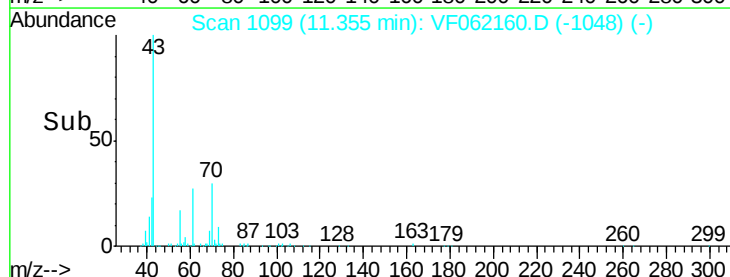
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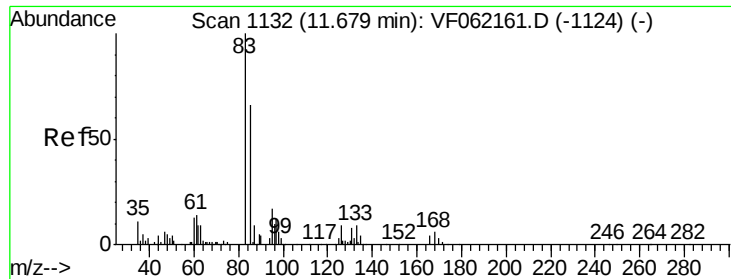
20000

10000

0

Time--> 11.30 11.35 11.40





#75

1,1,2,2-Tetrachloroethane

Concen: 22.050 ug/l

RT: 11.68 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

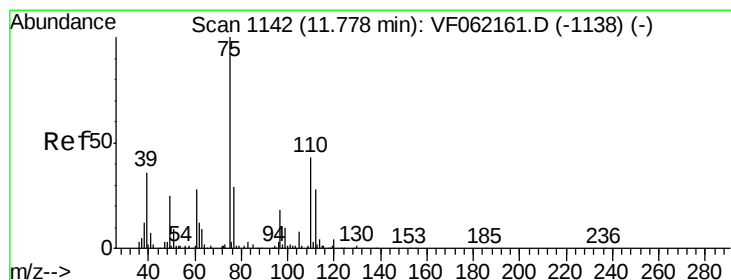
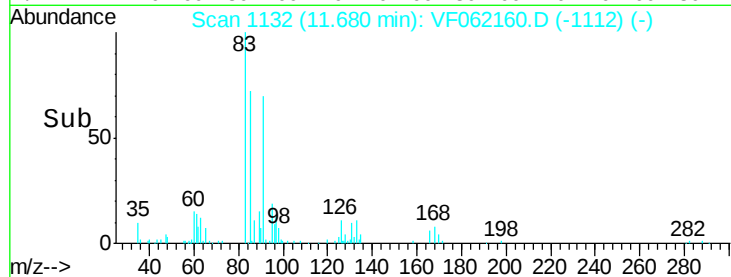
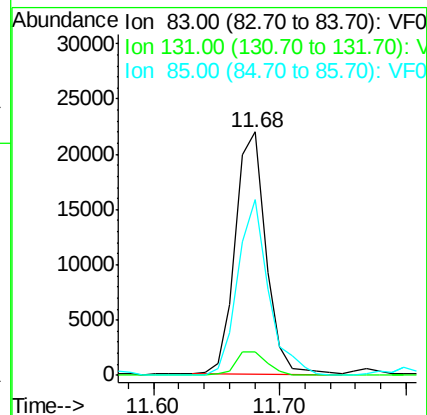
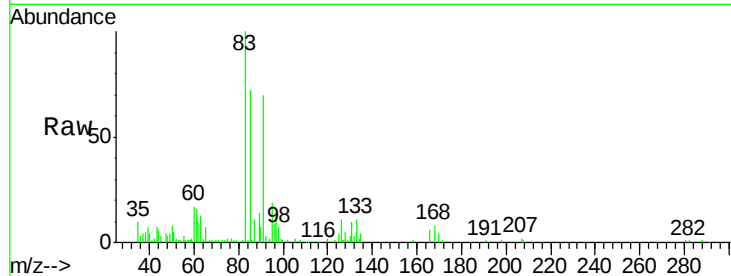
Tgt Ion: 83 Resp: 36989

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.3	12.8
85	72.4	33.1	99.2

83 100

131 9.9 4.3 12.8

85 72.4 33.1 99.2



#76

1,2,3-Trichloropropane

Concen: 22.610 ug/l

RT: 11.78 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF062160.D

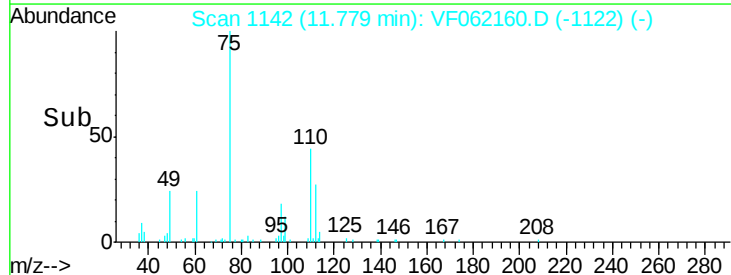
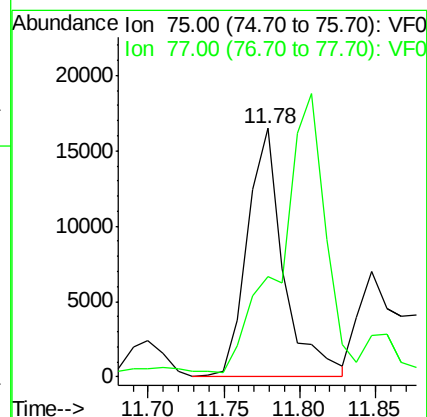
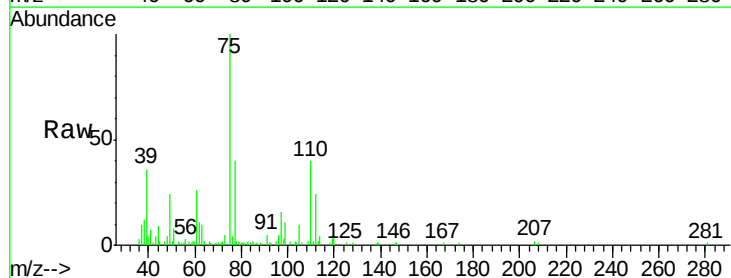
Acq: 4 Apr 2019 16:37

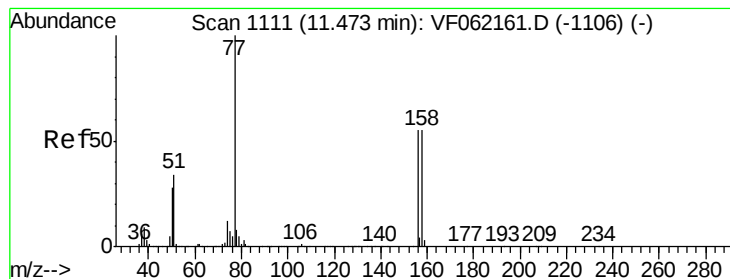
Tgt Ion: 75 Resp: 27606

Ion	Ratio	Lower	Upper
75	100		
77	40.2	15.0	45.0

75 100

77 40.2 15.0 45.0





#77

Bromobenzene

Concen: 21.426 ug/l

RT: 11.47 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

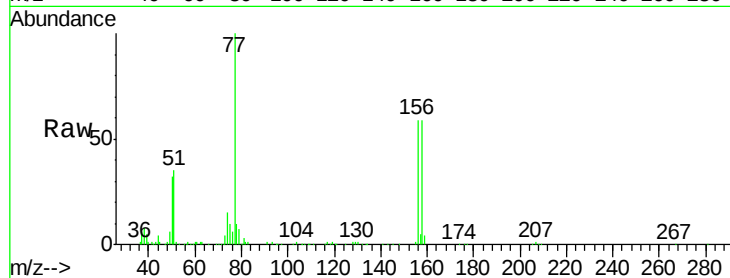
Tgt Ion: 156 Resp: 51534

Ion Ratio Lower Upper

156 100

77 169.2 91.0 272.8

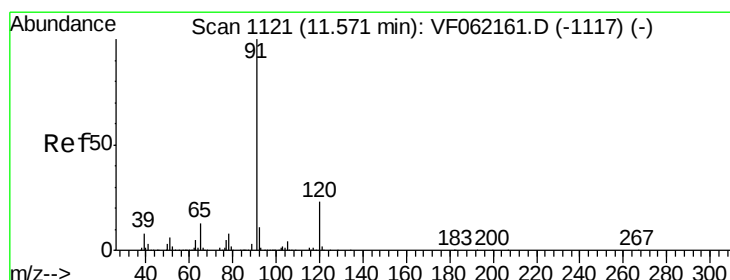
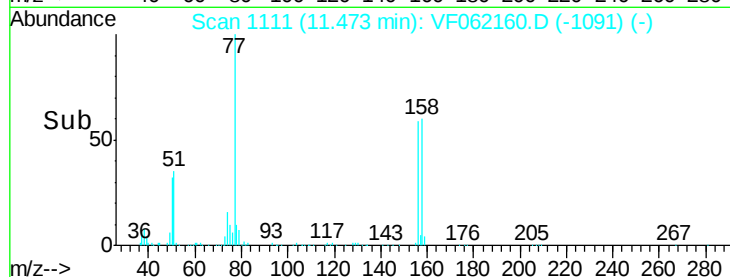
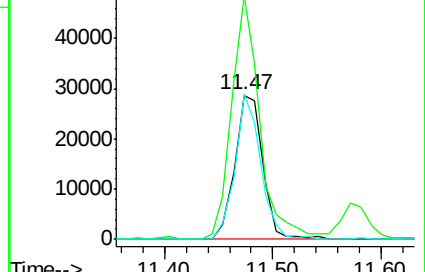
158 100.6 49.7 149.1



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: 23.213 ug/l

RT: 11.57 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062160.D

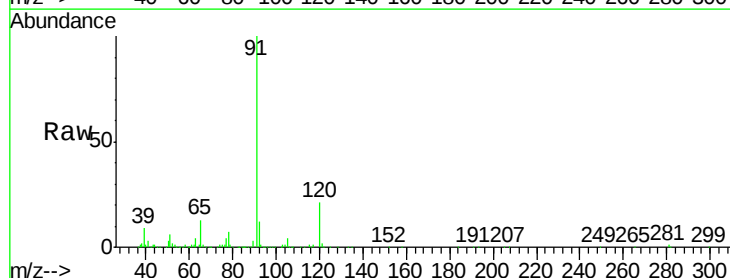
Acq: 4 Apr 2019 16:37

Tgt Ion: 91 Resp: 272361

Ion Ratio Lower Upper

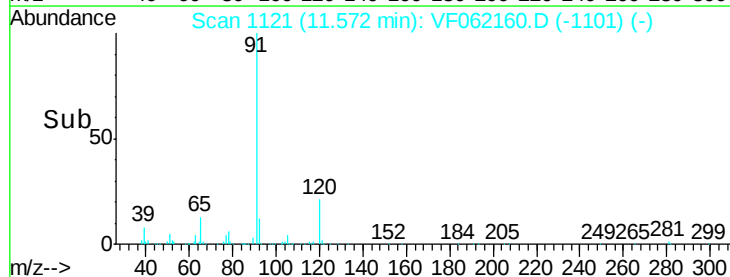
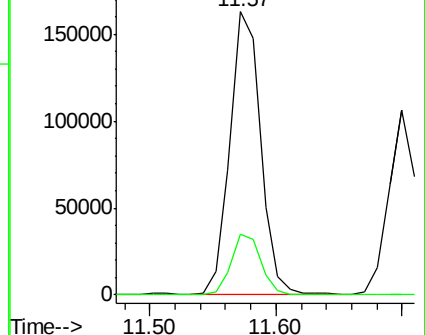
91 100

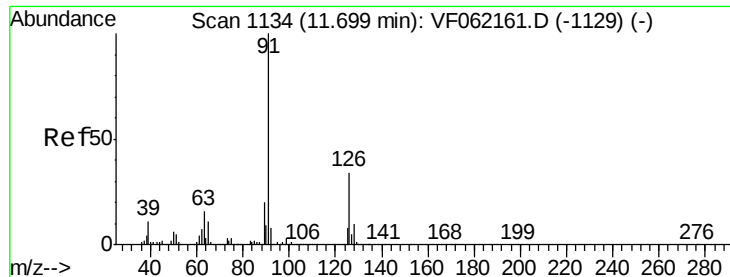
120 21.3 11.4 34.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

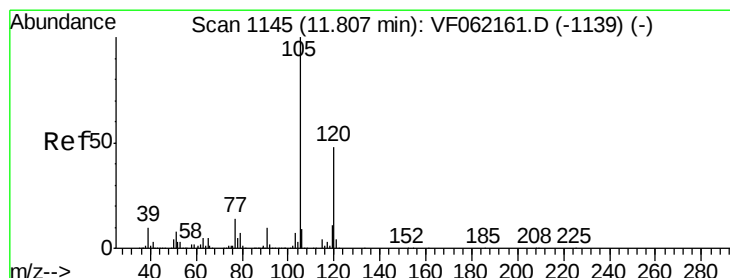
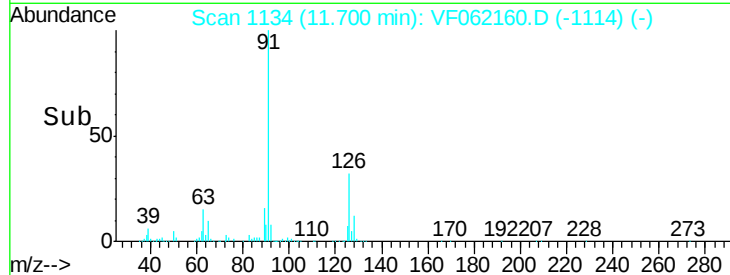
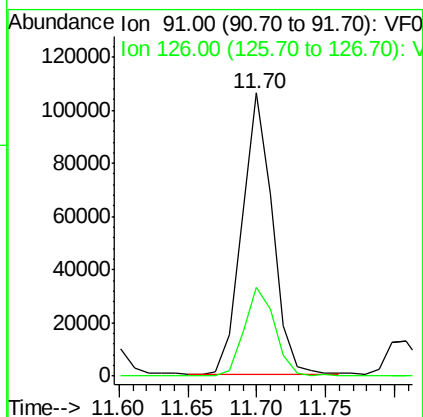
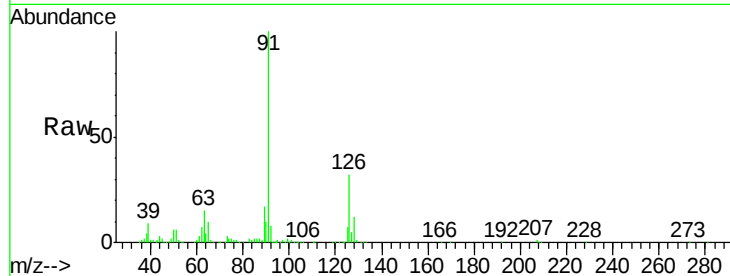




#79
 2-Chlorotoluene
 Concen: 25.129 ug/l
 RT: 11.70 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

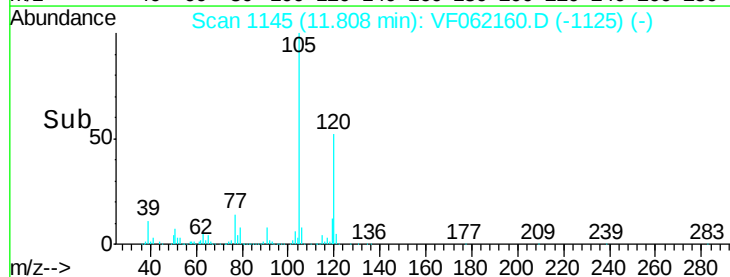
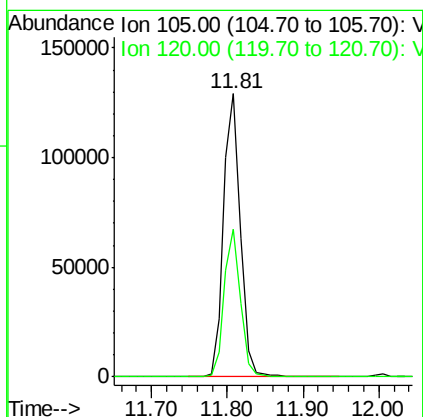
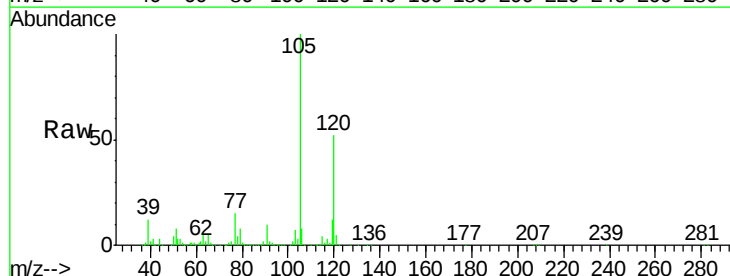
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

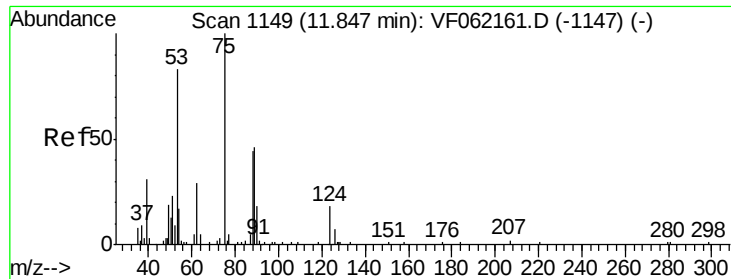
Tgt Ion: 91 Resp: 163427
 Ion Ratio Lower Upper
 91 100
 126 31.6 17.0 51.0



#80
 1,3,5-Trimethylbenzene
 Concen: 24.059 ug/l
 RT: 11.81 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion: 105 Resp: 200777
 Ion Ratio Lower Upper
 105 100
 120 52.0 24.2 72.6





#81

trans-1,4-Dichloro-2-butene

Concen: 33.668 ug/l

RT: 11.85 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

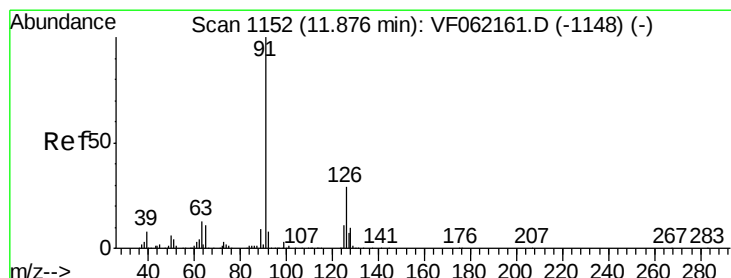
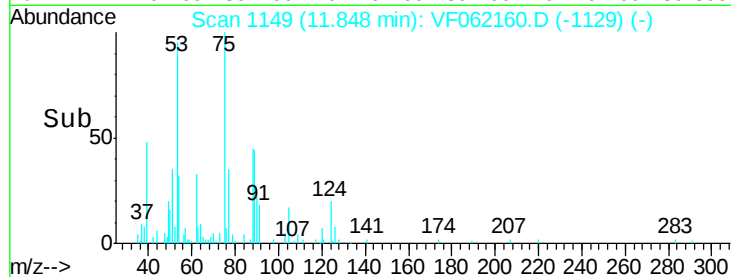
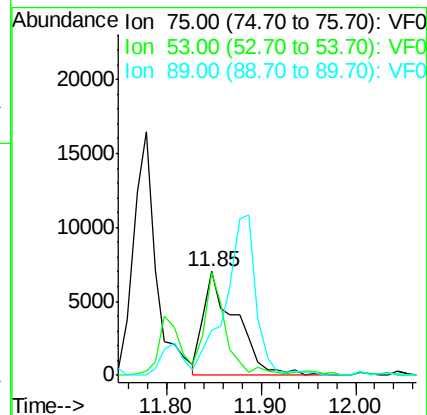
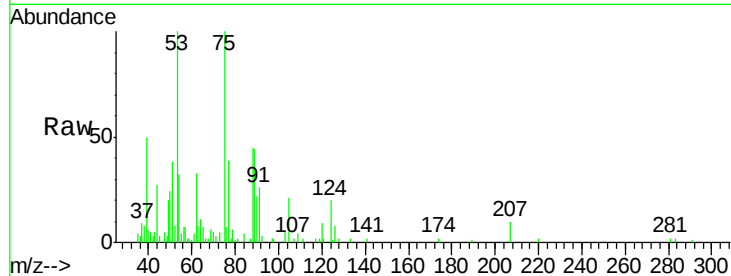
Tgt Ion: 75 Resp: 16865

Ion Ratio Lower Upper

75 100

53 99.7 71.4 107.0

89 43.9 37.9 56.9



#82

4-Chlorotoluene

Concen: 24.828 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF062160.D

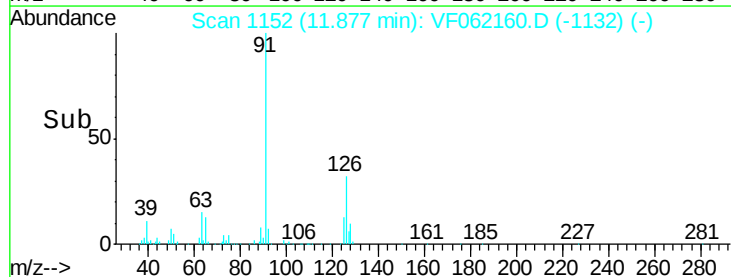
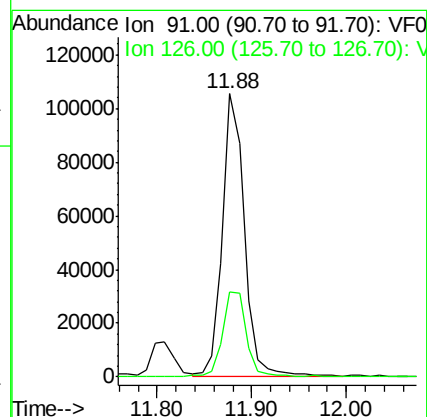
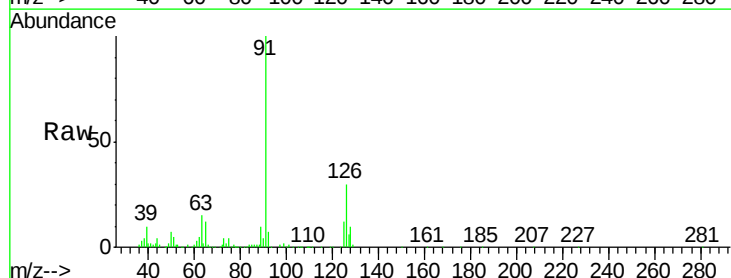
Acq: 4 Apr 2019 16:37

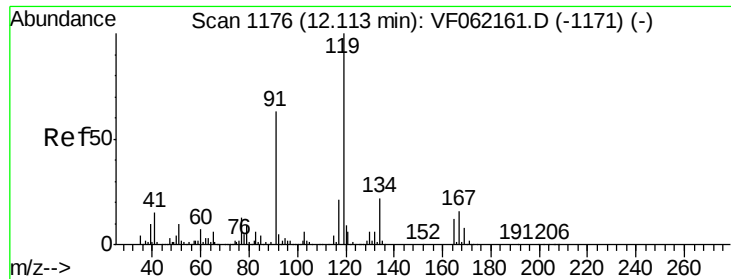
Tgt Ion: 91 Resp: 167610

Ion Ratio Lower Upper

91 100

126 29.9 14.2 42.8

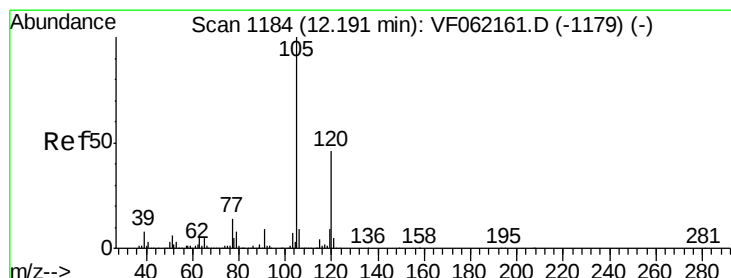
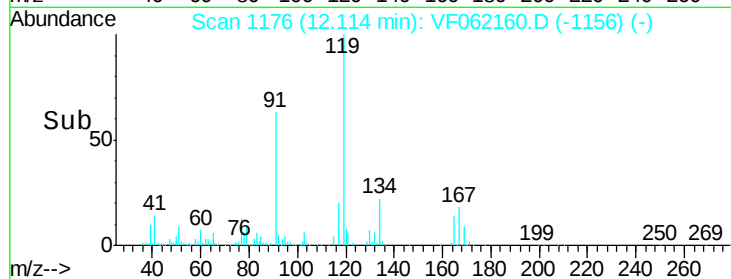
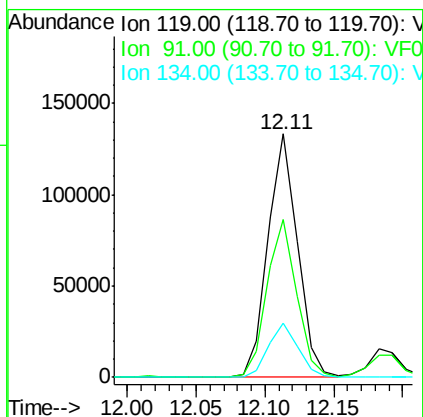
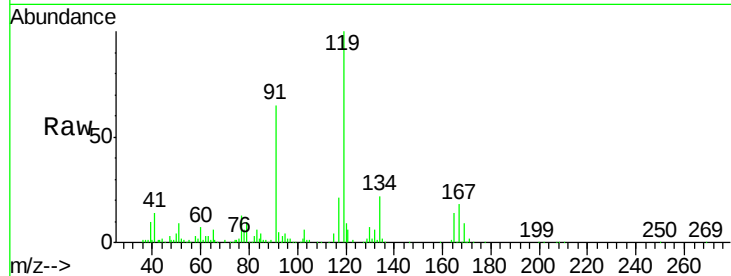




#83
 tert-Butylbenzene
 Concen: 23.038 ug/l
 RT: 12.11 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

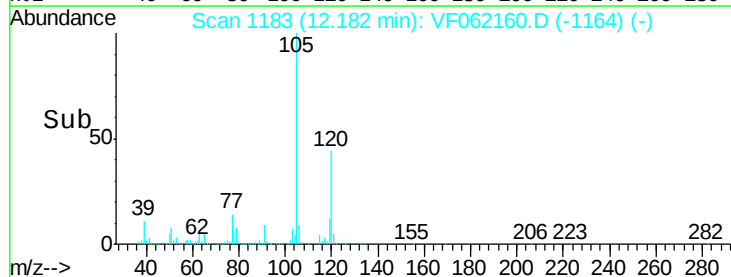
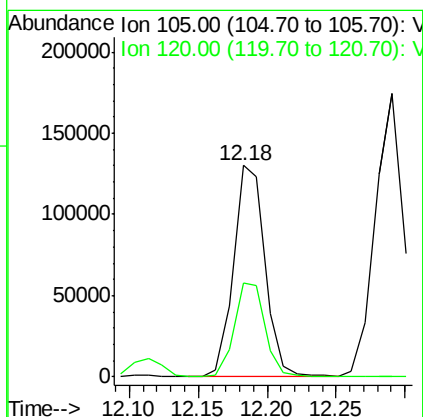
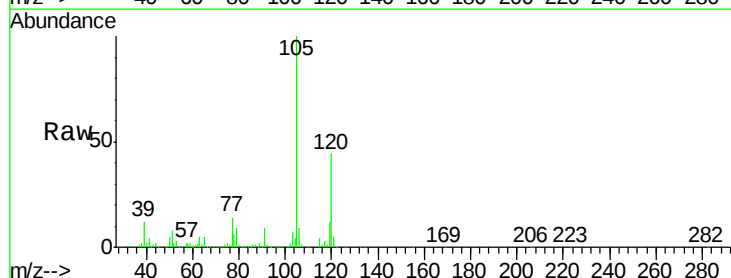
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

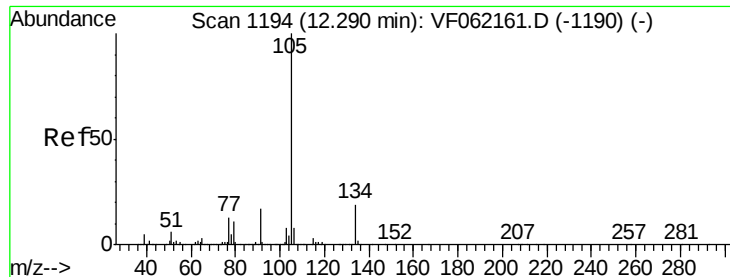
Tgt Ion:119 Resp: 199393
 Ion Ratio Lower Upper
 119 100
 91 64.9 31.6 94.7
 134 22.3 11.1 33.3



#84
 1,2,4-Trimethylbenzene
 Concen: 25.500 ug/l
 RT: 12.18 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion:105 Resp: 208125
 Ion Ratio Lower Upper
 105 100
 120 44.3 22.9 68.5

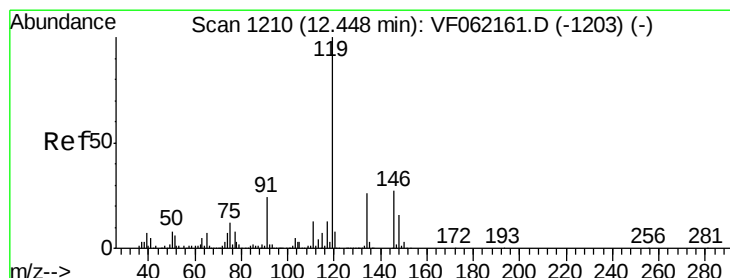
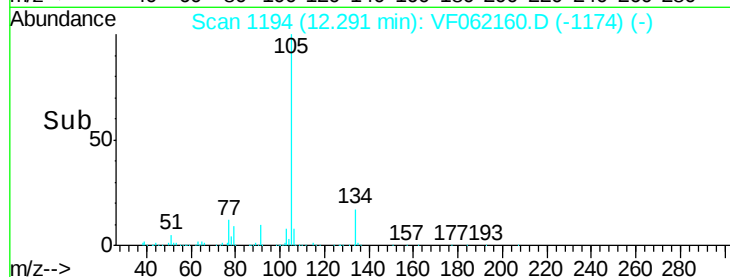
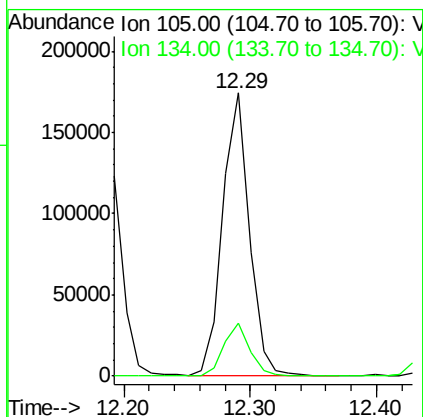
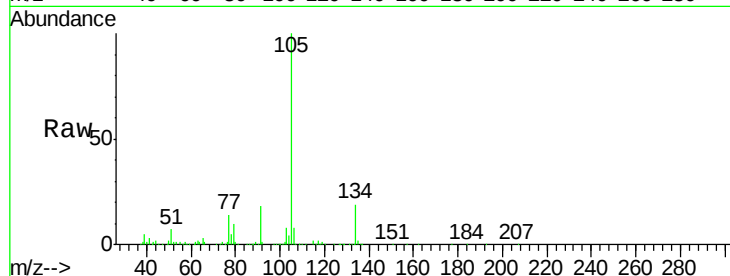




#85
 sec-Butylbenzene
 Concen: 22.841 ug/l
 RT: 12.29 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

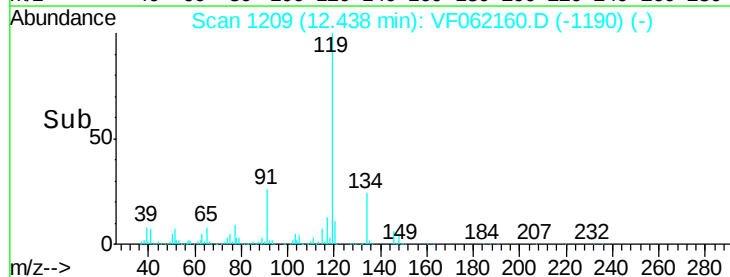
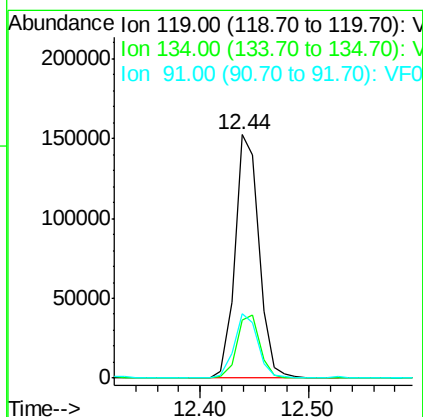
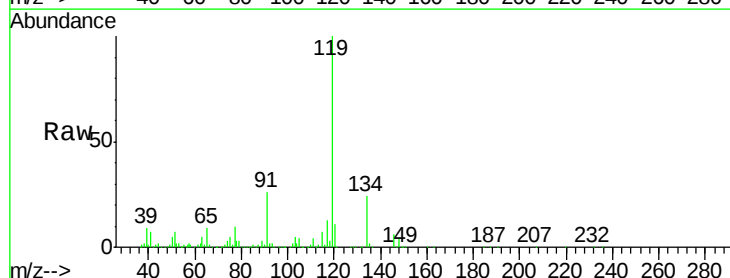
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

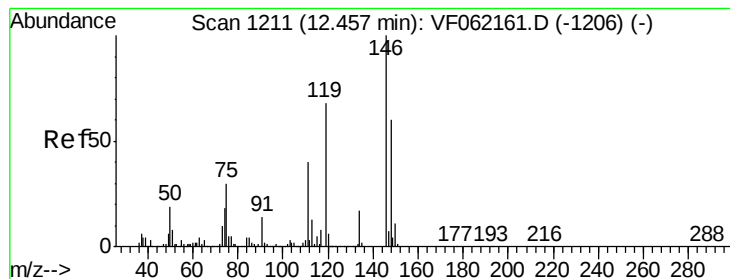
Tgt Ion:105 Resp: 254674
 Ion Ratio Lower Upper
 105 100
 134 18.9 9.3 28.0



#86
 p-Isopropyltoluene
 Concen: 23.907 ug/l
 RT: 12.44 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion:119 Resp: 234921
 Ion Ratio Lower Upper
 119 100
 134 23.6 13.2 39.5
 91 26.3 12.0 36.0





#87

1,3-Dichlorobenzene

Concen: 20.382 ug/l

RT: 12.46 min Scan# 1211

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

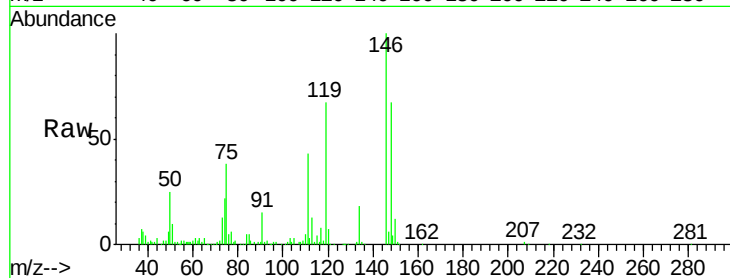
Tgt Ion:146 Resp: 92509

Ion Ratio Lower Upper

146 100

111 43.0 19.9 59.6

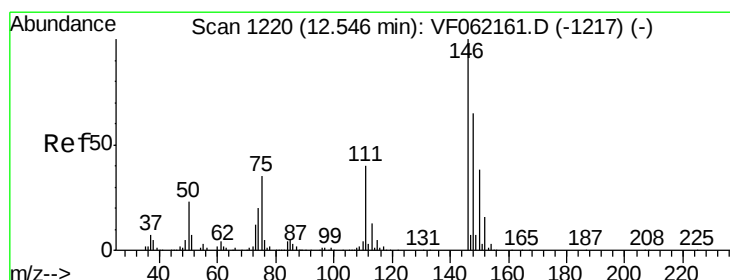
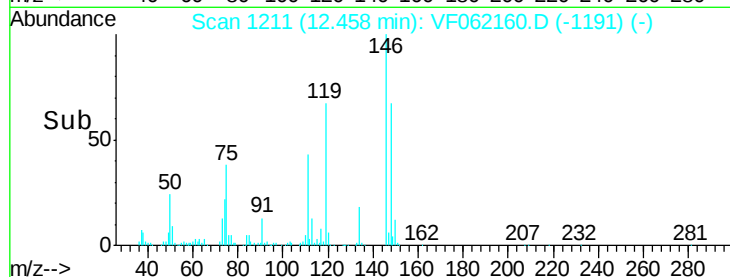
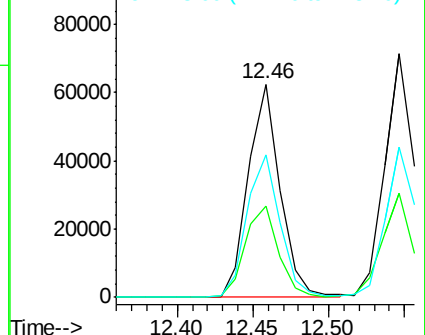
148 66.9 30.0 90.0



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



#88

1,4-Dichlorobenzene

Concen: 23.467 ug/l

RT: 12.55 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

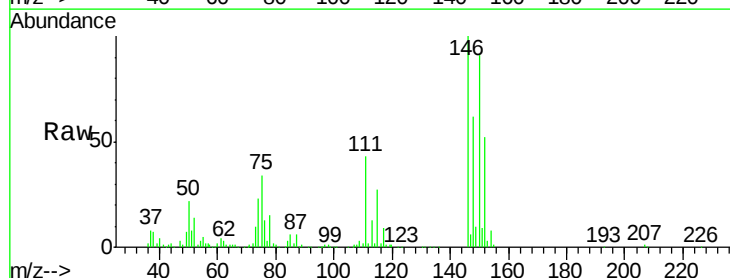
Tgt Ion:146 Resp: 102624

Ion Ratio Lower Upper

146 100

111 43.0 20.1 60.2

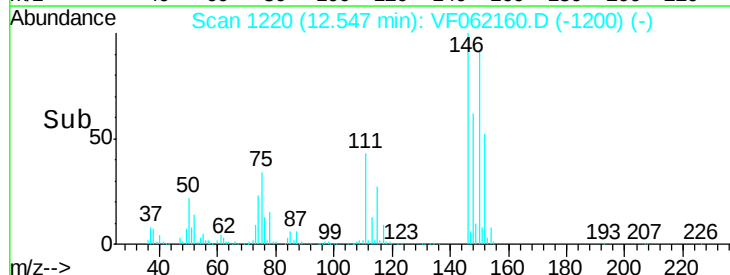
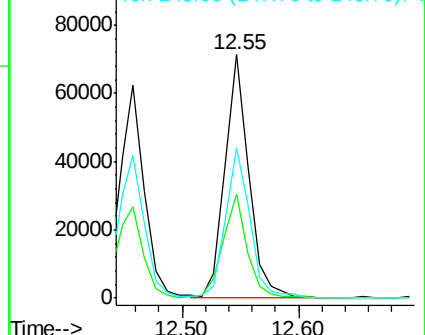
148 61.8 32.5 97.4

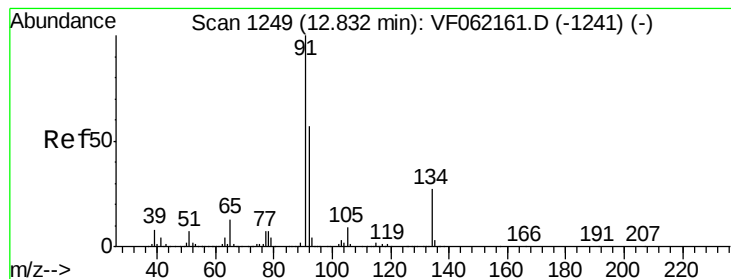


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 25.115 ug/l

RT: 12.82 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

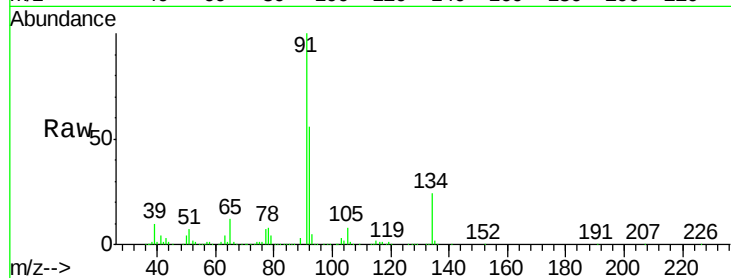
Tgt Ion: 91 Resp: 234095

Ion Ratio Lower Upper

91 100

92 56.0 28.3 85.0

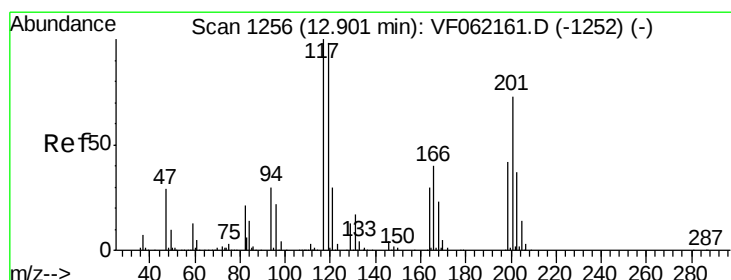
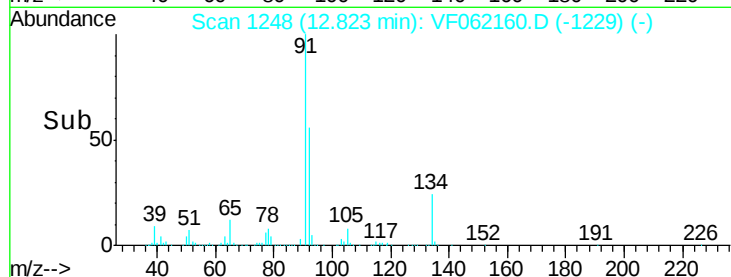
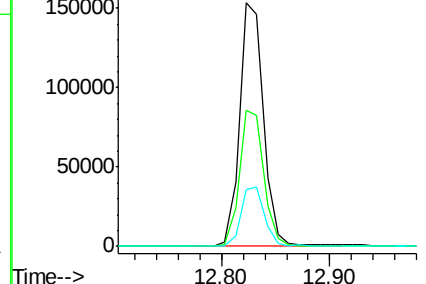
134 23.5 13.6 40.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 23.824 ug/l

RT: 12.90 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VF062160.D

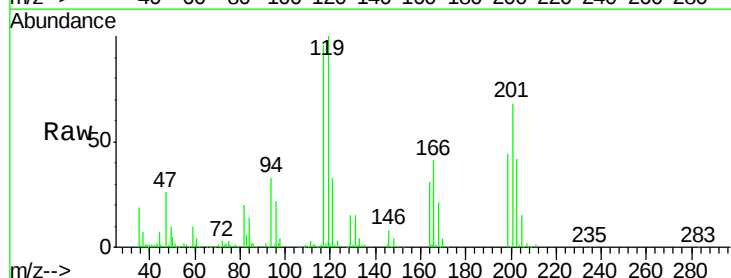
Acq: 4 Apr 2019 16:37

Tgt Ion: 117 Resp: 54655

Ion Ratio Lower Upper

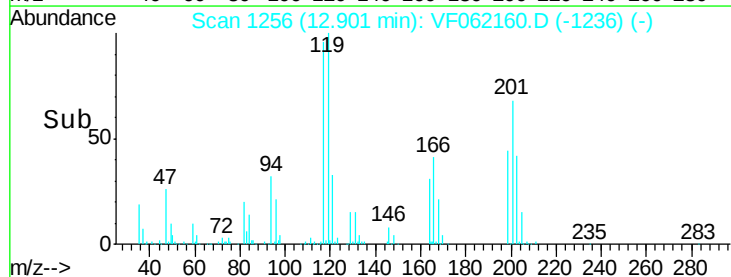
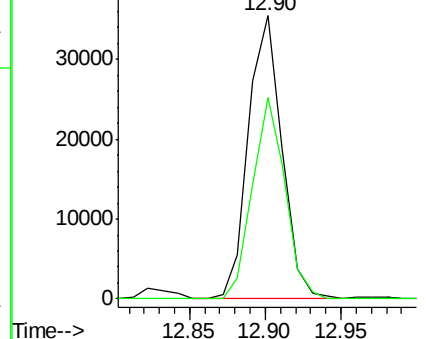
117 100

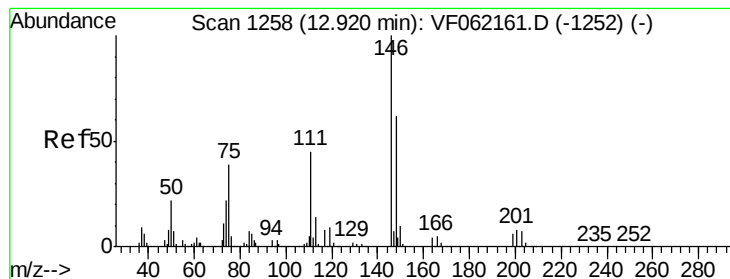
201 71.1 36.8 110.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 21.582 ug/l

RT: 12.92 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

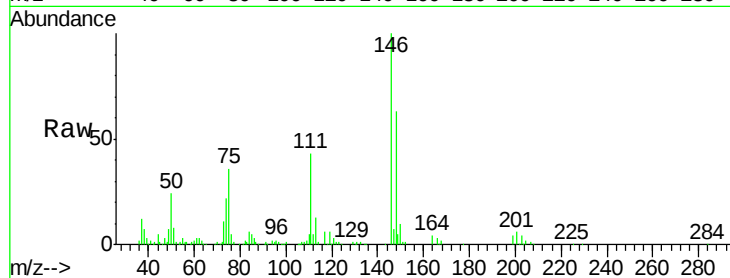
Tgt Ion:146 Resp: 90740

Ion Ratio Lower Upper

146 100

111 43.4 22.4 67.0

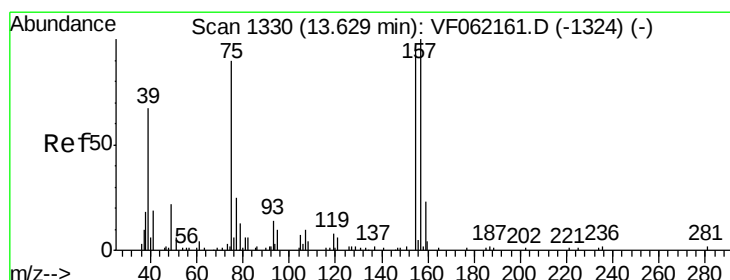
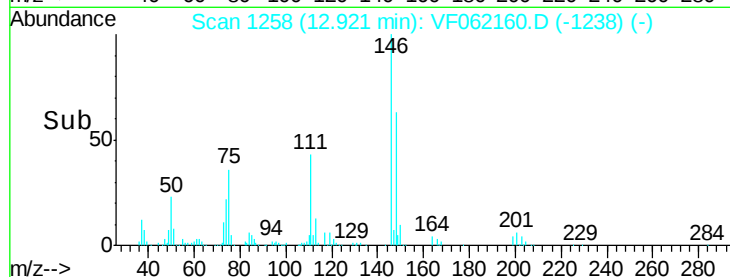
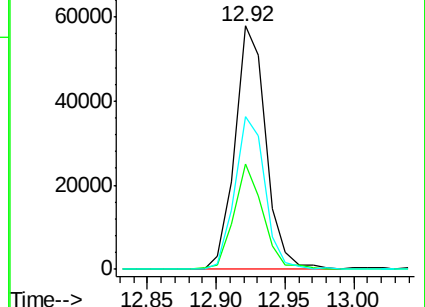
148 62.5 30.9 92.7



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: 28.759 ug/l

RT: 13.63 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

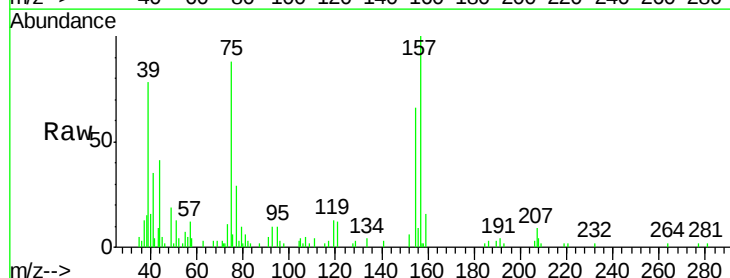
Tgt Ion: 75 Resp: 7675

Ion Ratio Lower Upper

75 100

155 75.7 52.8 158.3

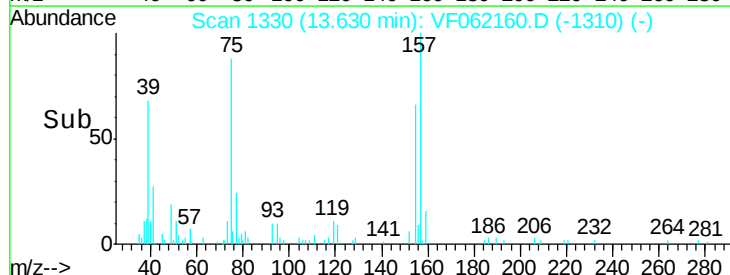
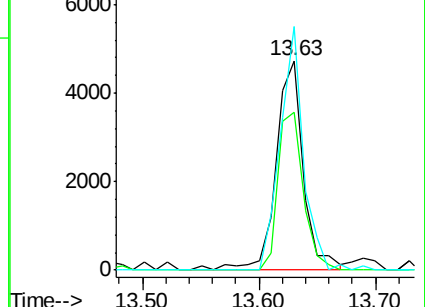
157 116.4 55.7 167.1

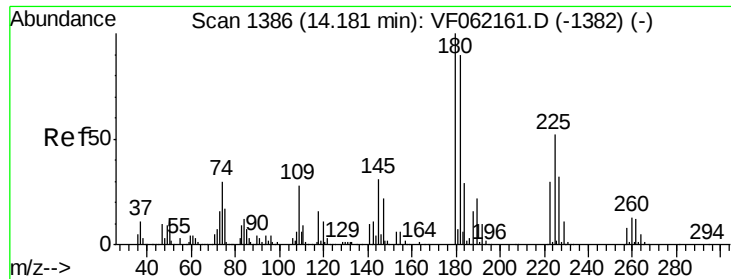


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

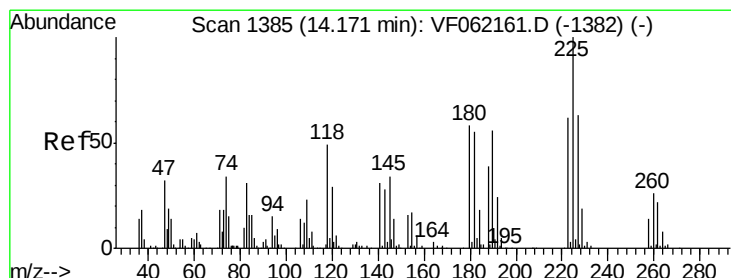
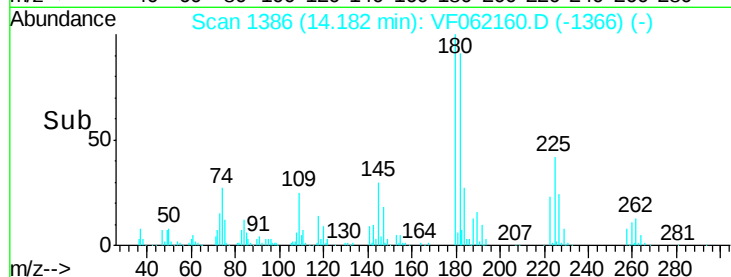
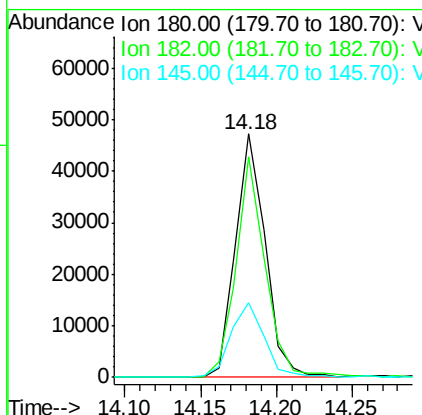
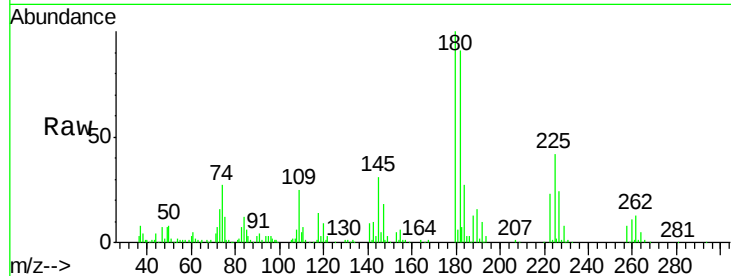




#93
 1,2,4-Trichlorobenzene
 Concen: 21.762 ug/l
 RT: 14.18 min Scan# 1386
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

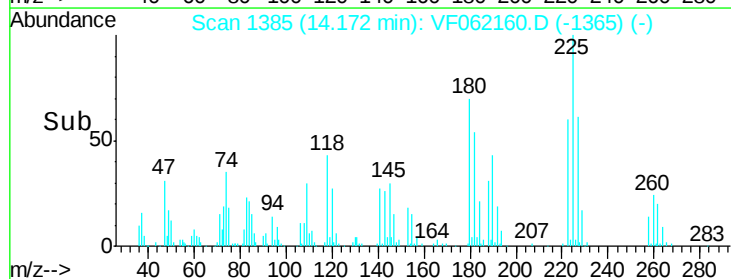
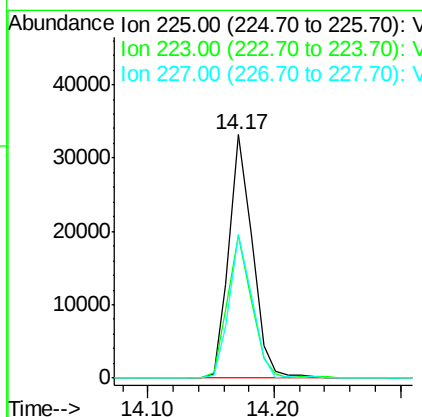
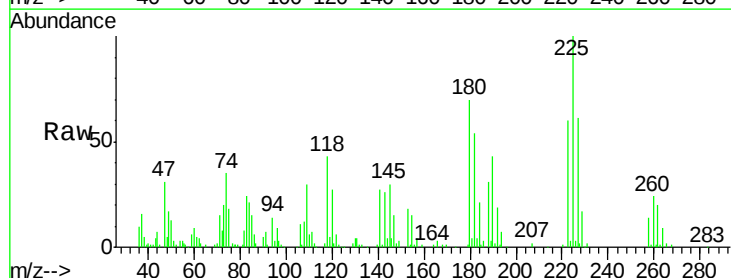
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

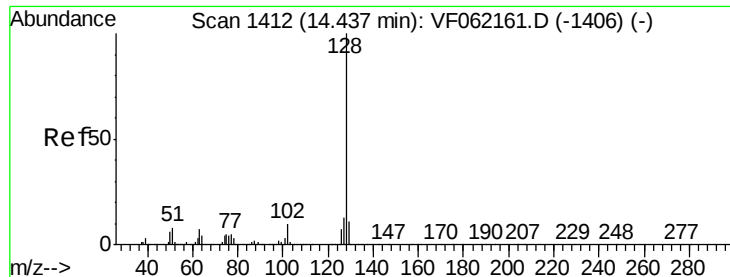
Tgt Ion:180 Resp: 64449
 Ion Ratio Lower Upper
 180 100
 182 90.8 45.1 135.2
 145 30.7 15.4 46.4



#94
 Hexachlorobutadiene
 Concen: 21.911 ug/l
 RT: 14.17 min Scan# 1385
 Delta R.T. 0.00 min
 Lab File: VF062160.D
 Acq: 4 Apr 2019 16:37

Tgt Ion:225 Resp: 42862
 Ion Ratio Lower Upper
 225 100
 223 58.4 31.0 93.0
 227 58.9 32.8 98.3





#95

Naphthalene

Concen: 20.505 ug/l

RT: 14.44 min Scan# 1412

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

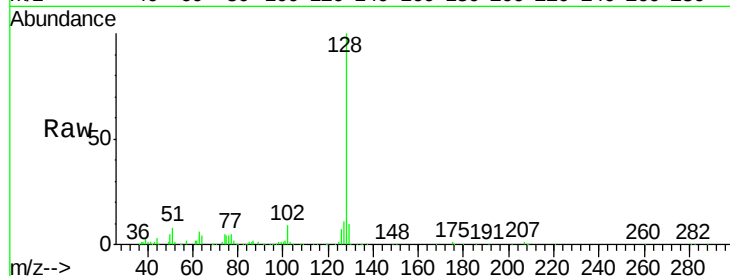
Tgt Ion:128 Resp: 103894

Ion Ratio Lower Upper

128 100

127 10.7 10.2 15.2

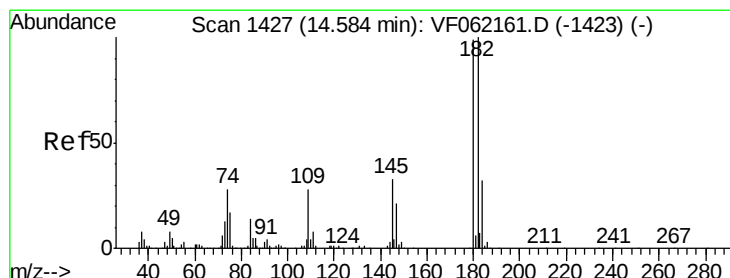
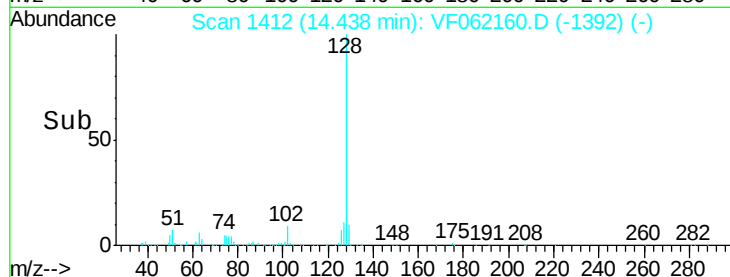
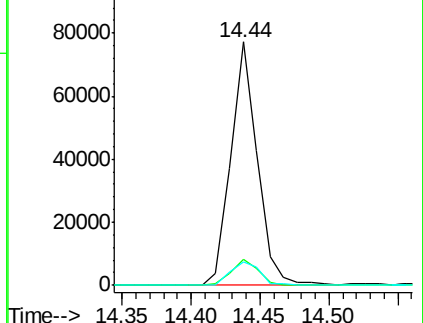
129 9.7 8.4 12.6



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: 20.484 ug/l

RT: 14.59 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VF062160.D

Acq: 4 Apr 2019 16:37

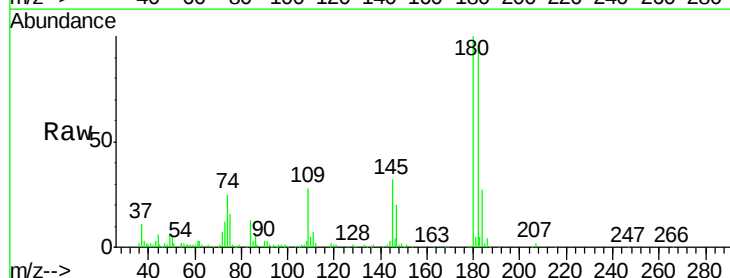
Tgt Ion:180 Resp: 55623

Ion Ratio Lower Upper

180 100

182 96.0 50.4 151.2

145 31.9 16.7 50.1



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

