

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062114.D
 Acq On : 23 Mar 2019 13:44
 Operator : VA/AP
 Sample : VF0323SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 25 01:27:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	239654	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.60	114	391648	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	309821	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	169652	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	111996	62.83	ug/l	-0.03
Spiked Amount			Recovery	=	125.66%	
35) Dibromofluoromethane	4.12	113	152519	57.57	ug/l	-0.03
Spiked Amount			Recovery	=	115.14%	
50) Toluene-d8	7.56	98	425663	53.82	ug/l	-0.03
Spiked Amount			Recovery	=	107.64%	
62) 4-Bromofluorobenzene	11.42	95	166967	54.69	ug/l	-0.02
Spiked Amount			Recovery	=	109.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	68455	22.297	ug/l	92
3) Chloromethane	1.10	50	69160	21.529	ug/l	98
4) Vinyl Chloride	1.14	62	63588	21.400	ug/l	99
5) Bromomethane	1.32	94	45701	21.396	ug/l	91
6) Chloroethane	1.40	64	31447	21.023	ug/l	91
7) Trichlorofluoromethane	1.49	101	58612	16.332	ug/l	97
8) Diethyl Ether	1.63	74	15651	19.092	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	1.85	101	52636	21.499	ug/l	93
10) Methyl Iodide	1.92	142	82874	17.813	ug/l	89
11) Tert butyl alcohol	2.57	59	12186	124.245	ug/l #	77
12) 1,1-Dichloroethene	1.80	96	36978	16.007	ug/l	97
13) Acrolein	2.00	56	13942	118.211	ug/l	95
14) Allyl chloride	2.10	41	53973	21.884	ug/l	97
15) Acrylonitrile	2.95	53	39740	115.223	ug/l	96
16) Acetone	2.24	43	41617	110.929	ug/l	99
17) Carbon Disulfide	1.82	76	115298	16.367	ug/l	95
18) Methyl Acetate	2.42	43	19747	22.065	ug/l	94
19) Methyl tert-butyl Ether	2.43	73	85310	23.366	ug/l	94
20) Methylene Chloride	2.18	84	20981	6.507	ug/l	93
21) trans-1,2-Dichloroethene	2.31	96	44614	20.072	ug/l	98
22) Diisopropyl ether	2.81	45	146520	22.659	ug/l	97
23) Vinyl Acetate	3.19	43	327135	123.562	ug/l	99
24) 1,1-Dichloroethane	2.88	63	81908	21.122	ug/l	99
25) 2-Butanone	4.35	43	85568	109.252	ug/l	98
26) 2,2-Dichloropropane	3.60	77	36078	22.947	ug/l	96
27) cis-1,2-Dichloroethene	3.48	96	61310	20.816	ug/l	96
28) Bromochloromethane	3.72	49	36924	23.305	ug/l	90
29) Tetrahydrofuran	4.07	42	38735	113.749	ug/l	97
30) Chloroform	3.86	83	96819	23.625	ug/l	97
31) Cyclohexane	3.69	56	46009	11.360	ug/l	98
32) 1,1,1-Trichloroethane	4.10	97	53110	21.304	ug/l	90
36) 1,1-Dichloropropene	4.29	75	75101	20.132	ug/l	100
37) Ethyl Acetate	4.12	43	37977	23.294	ug/l #	90
38) Carbon Tetrachloride	4.10	117	11883	4.674	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	87153	20.130	ug/l	97
40) Benzene	4.63	78	199720	19.971	ug/l	98
41) Methacrylonitrile	4.74	41	18868	21.873	ug/l	93
42) 1,2-Dichloroethane	4.94	62	51624	21.829	ug/l	93
43) Isopropyl Acetate	6.97	43	43936	22.253	ug/l #	99
44) Trichloroethene	5.51	130	63789	20.863	ug/l	94
45) 1,2-Dichloropropane	6.24	63	46974	19.694	ug/l	97
46) Dibromomethane	6.09	93	30340	20.803	ug/l	92
47) Bromodichloromethane	6.39	83	68232	21.122	ug/l	90
48) Methyl methacrylate	6.71	41	25390	22.586	ug/l	86
49) 1,4-Dioxane	6.71	88	5082	515.199	ug/l #	71
51) 4-Methyl-2-Pentanone	8.26	43	149134	112.854	ug/l	97
52) Toluene	7.63	92	118856	20.519	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	53332	21.031	ug/l	95
54) cis-1,3-Dichloropropene	7.30	75	77942	21.481	ug/l	94
55) 1,1,2-Trichloroethane	8.49	97	35911	21.826	ug/l	96
56) Ethyl methacrylate	8.62	69	41068	20.929	ug/l	93
57) 1,3-Dichloropropane	8.85	76	57528	21.067	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.29	63	33371	112.077	ug/l	93
59) 2-Hexanone	9.49	43	111872	115.507	ug/l	96
60) Dibromochloromethane	8.71	129	49236	21.526	ug/l	98
61) 1,2-Dibromoethane	8.99	107	38045	21.674	ug/l	97
64) Tetrachloroethene	8.15	164	52489	21.929	ug/l	94
65) Chlorobenzene	9.80	112	127282	21.957	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.94	131	55691	23.917	ug/l	95
67) Ethyl Benzene	9.91	91	233788	23.190	ug/l	96
68) m/p-Xylenes	10.13	106	169584	45.006	ug/l	89
69) o-Xylene	10.72	106	91011	23.061	ug/l	100
70) Styrene	10.79	104	135033	22.583	ug/l	96
71) Bromoform	10.77	173	27686	23.245	ug/l	93
73) Isopropylbenzene	11.13	105	261151	21.876	ug/l	99
74) N-amyl acetate	11.38	43	66836	23.497	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.69	83	49483	24.141	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	31632	21.928	ug/l	90
77) Bromobenzene	11.49	156	62527	21.438	ug/l	89
78) n-propylbenzene	11.59	91	304368	21.957	ug/l	99
79) 2-Chlorotoluene	11.72	91	172559	22.396	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	221836	22.592	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.87	75	16092	27.377	ug/l	89
82) 4-Chlorotoluene	11.90	91	167434	21.194	ug/l	99
83) tert-Butylbenzene	12.14	119	226034	21.990	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	218911	22.742	ug/l	95
85) sec-Butylbenzene	12.30	105	299259	22.505	ug/l	97
86) p-Isopropyltoluene	12.46	119	256614	22.274	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	125363	23.135	ug/l	95
88) 1,4-Dichlorobenzene	12.57	146	115343	21.814	ug/l	97
89) n-Butylbenzene	12.85	91	244520	22.246	ug/l	95
90) Hexachloroethane	12.91	117	59428	21.664	ug/l	97
91) 1,2-Dichlorobenzene	12.94	146	118773	23.343	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	6718	21.631	ug/l	93

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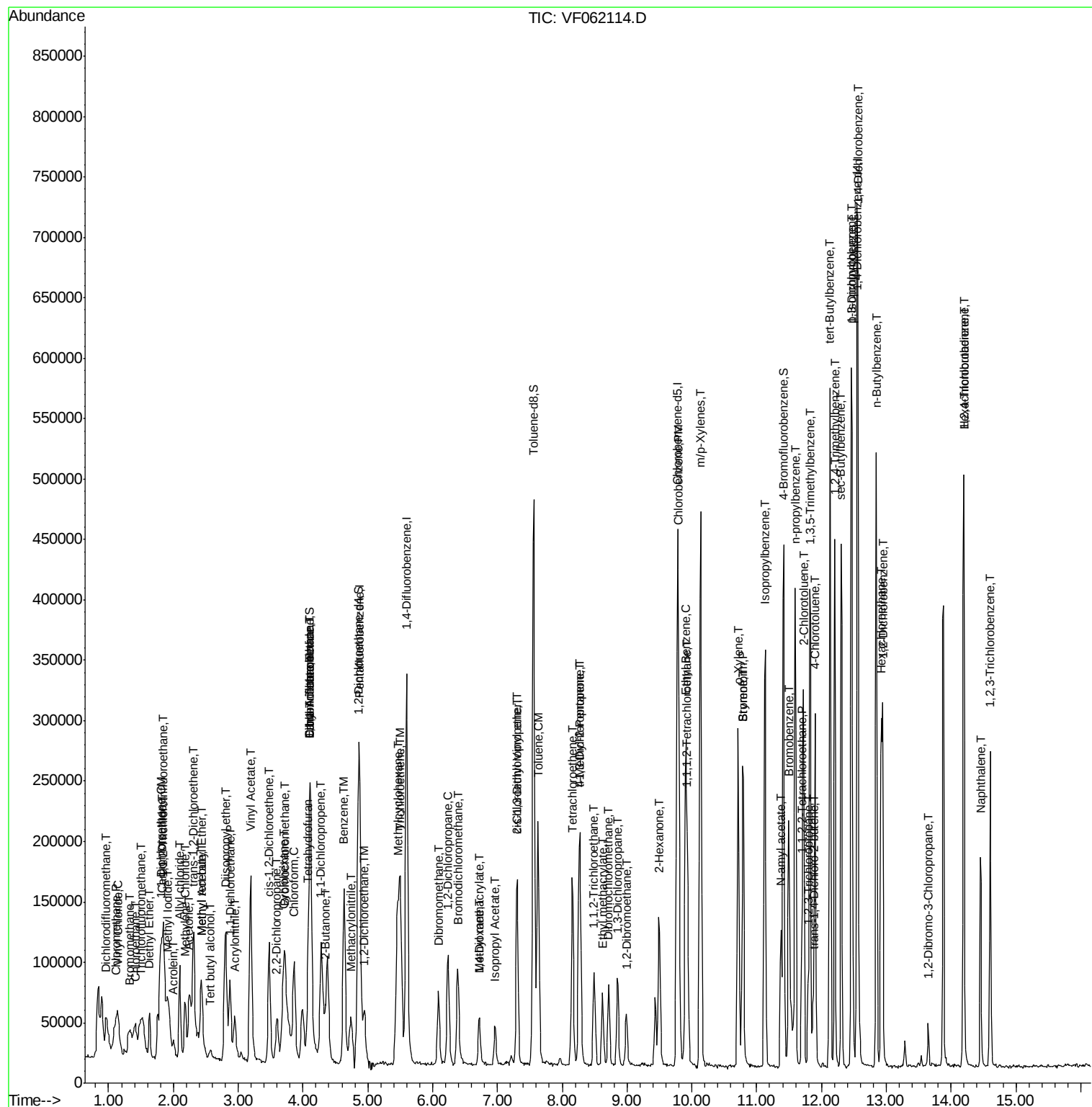
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	84503	23.830	ug/l	97
94) Hexachlorobutadiene	14.19	225	51090	21.668	ug/l	93
95) Naphthalene	14.45	128	136953	22.038	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	77170	23.248	ug/l	98

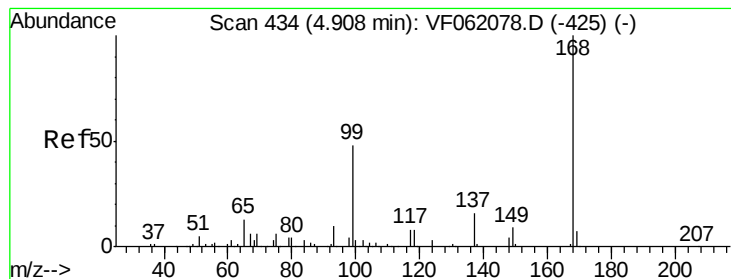
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

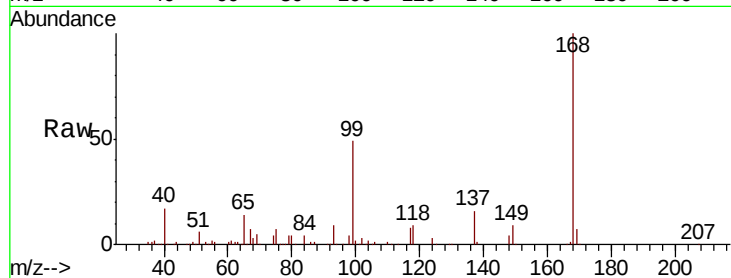
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 239654

Ion Ratio Lower Upper

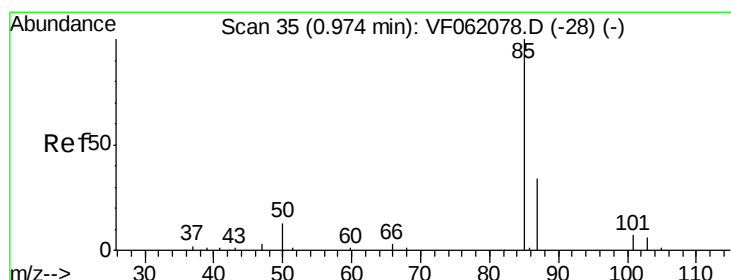
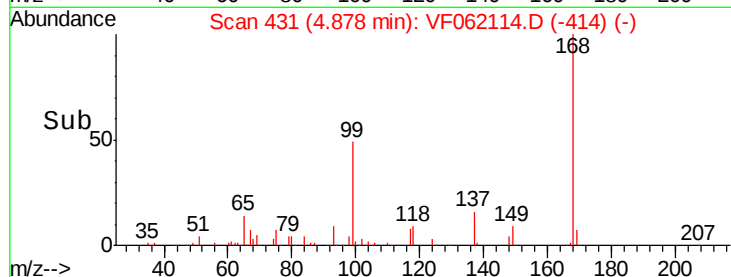
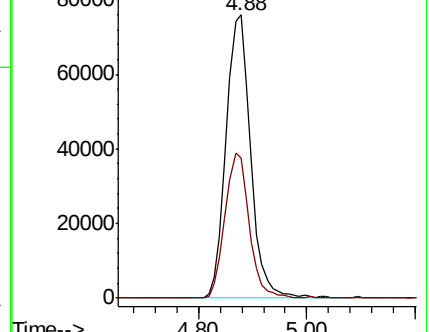
168 100

99 49.4 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 22.297 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.02 min

Lab File: VF062114.D

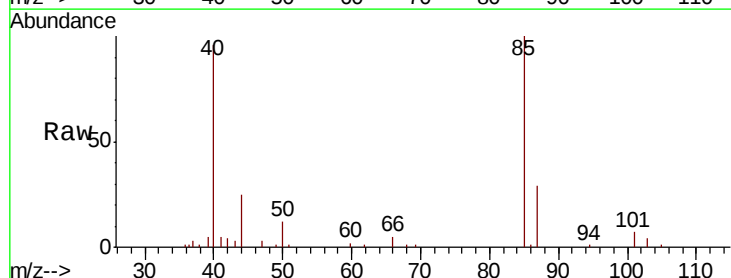
Acq: 23 Mar 2019 13:44

Tgt Ion: 85 Resp: 68455

Ion Ratio Lower Upper

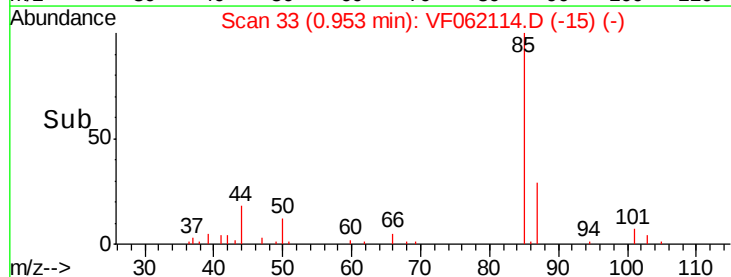
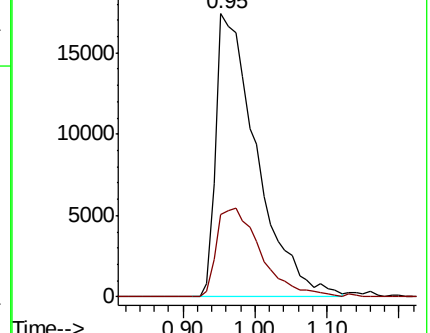
85 100

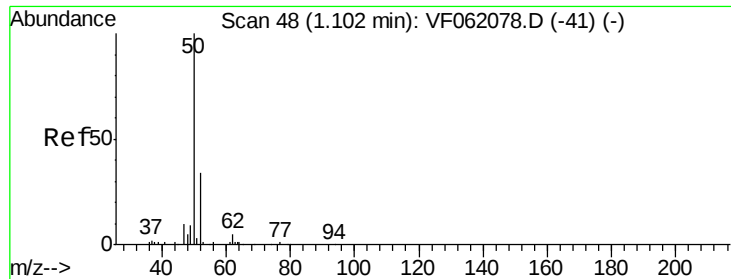
87 29.2 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 21.529 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

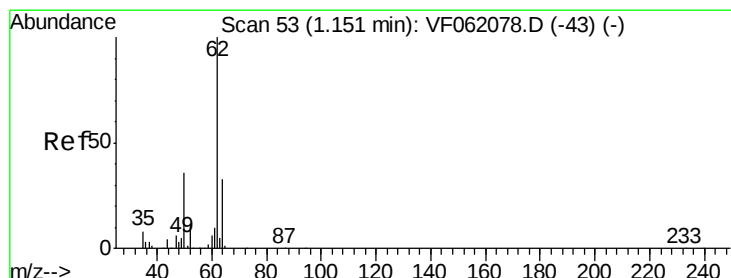
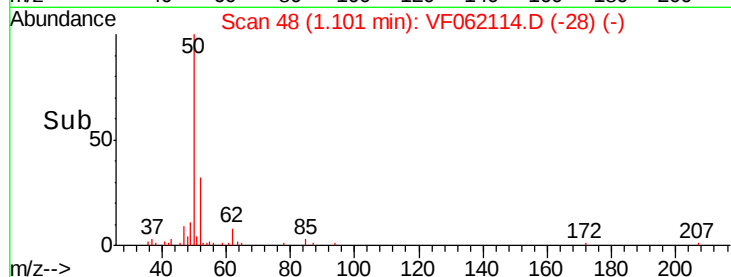
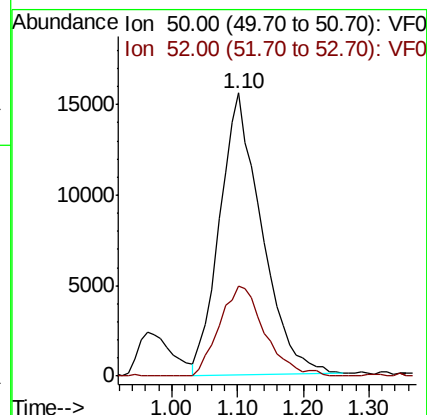
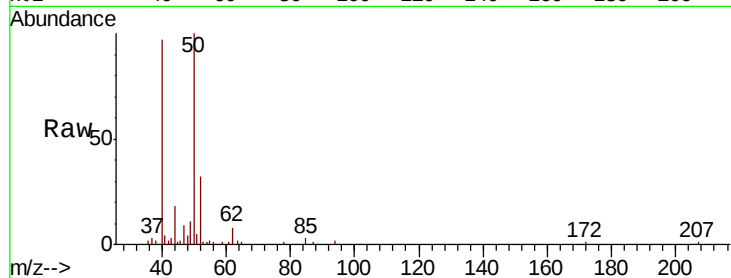
ClientSampleId :

Tot Ion: 50 Resp: 69160

Ion Ratio Lower Upper

50 100

52 31.7 26.1 39.1



#4

Vinyl Chloride

Concen: 21.400 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062114.D

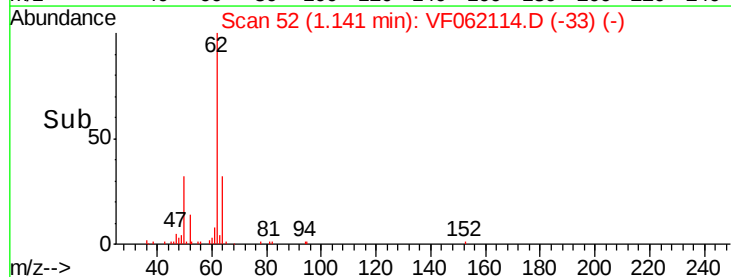
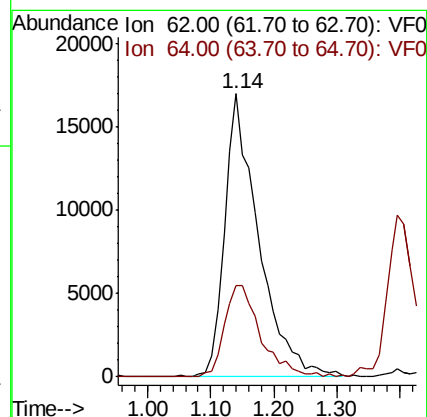
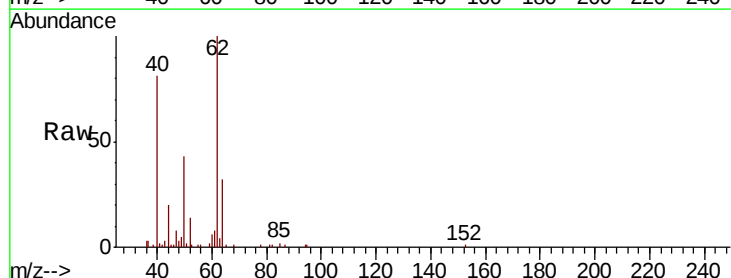
Acq: 23 Mar 2019 13:44

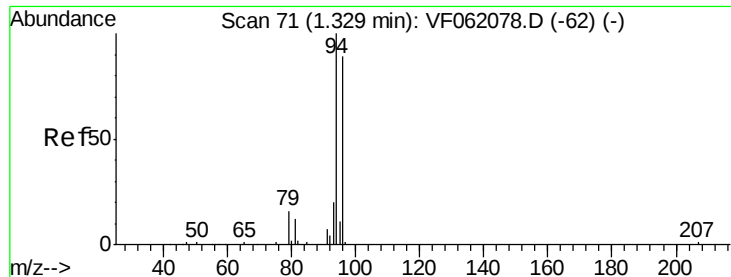
Tgt Ion: 62 Resp: 63588

Ion Ratio Lower Upper

62 100

64 32.3 26.2 39.2





#5

Bromomethane

Concen: 21.396 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

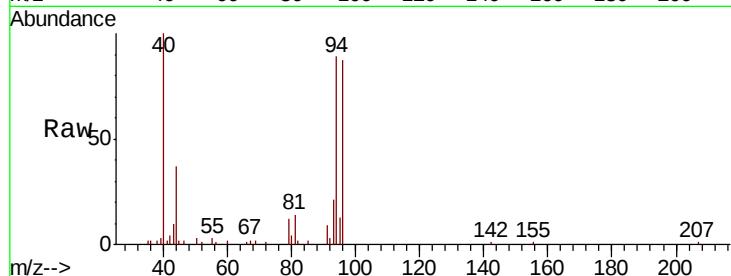
ClientSampleId :

Tot Ion: 94 Resp: 45701

Ion Ratio Lower Upper

94 100

96 97.4 70.9 106.3



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

10000

8000

6000

4000

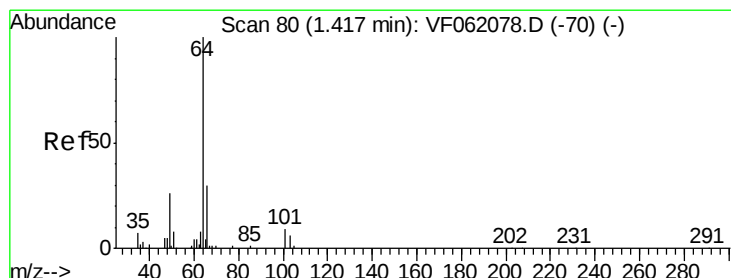
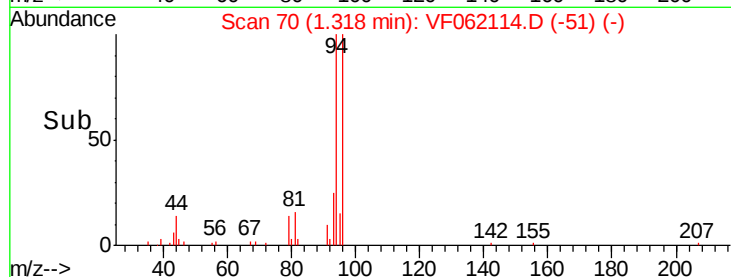
2000

0

1.20

1.40

Time-->



#6

Chloroethane

Concen: 21.023 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.02 min

Lab File: VF062114.D

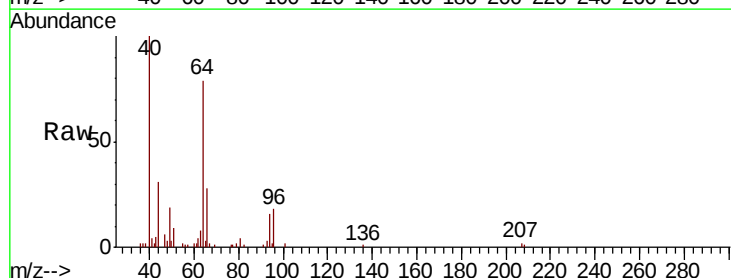
Acq: 23 Mar 2019 13:44

Tgt Ion: 64 Resp: 31447

Ion Ratio Lower Upper

64 100

66 35.4 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

10000

8000

6000

4000

2000

0

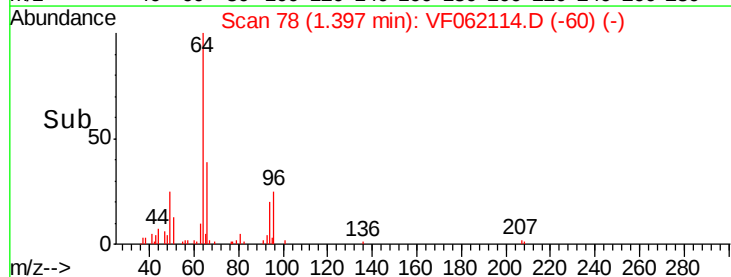
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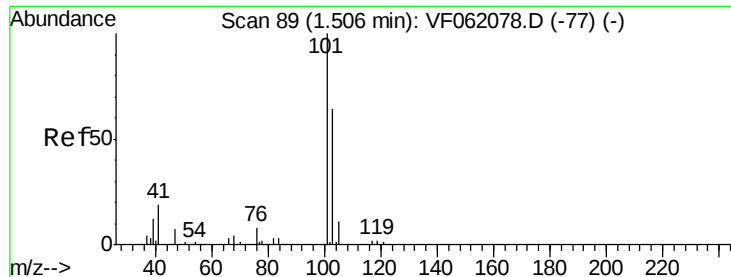
1.30

1.40

1.50

Time-->



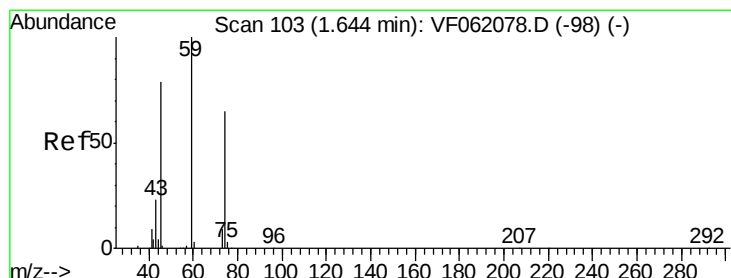
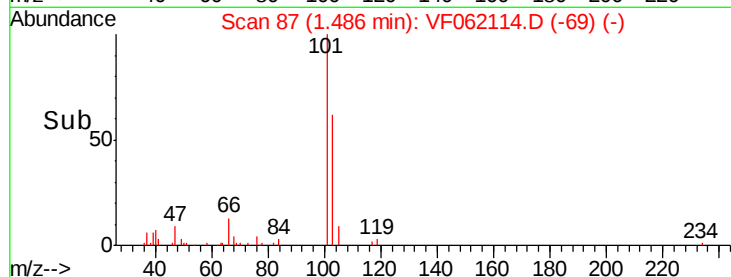
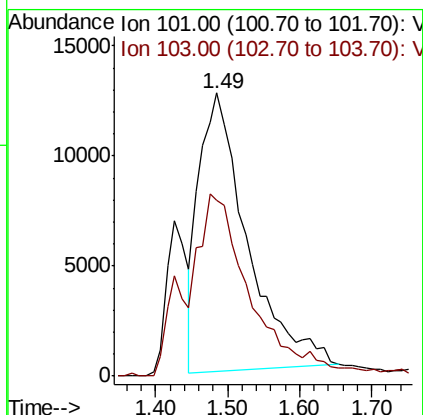
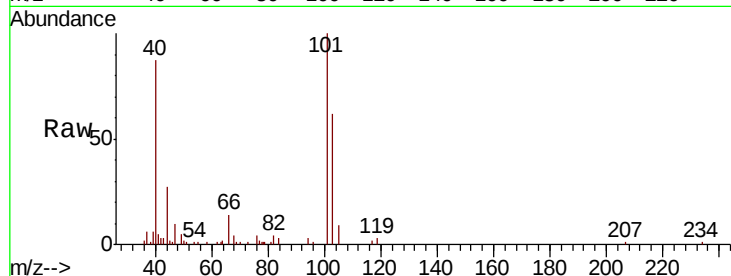


#7

Trichlorofluoromethane
 Concen: 16.332 ug/l
 RT: 1.49 min Scan# 87
 Delta R.T. -0.02 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Instrument :
 MSVOA_F
 ClientSampleId :

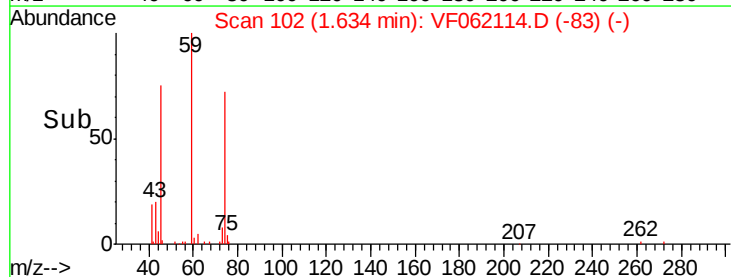
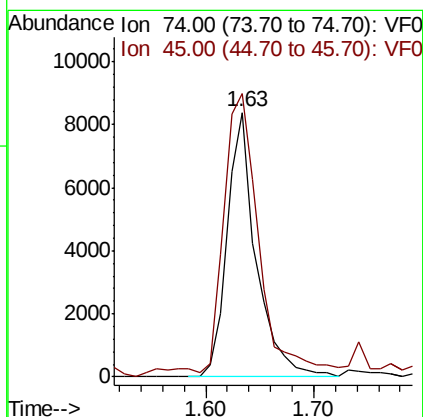
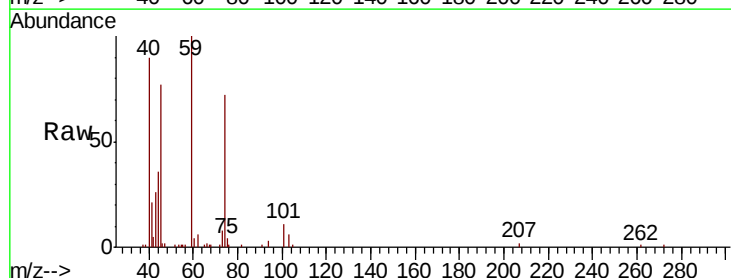
Tot Ion:101 Resp: 58612
 Ion Ratio Lower Upper
 101 100
 103 61.9 51.5 77.3

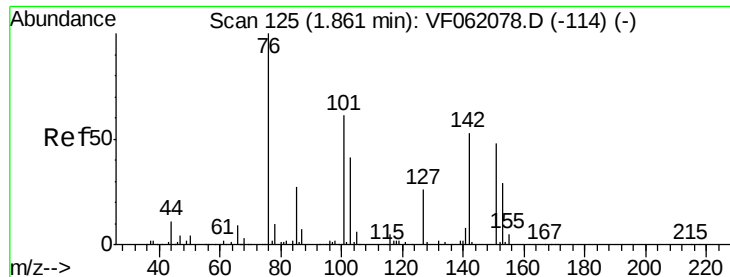


#8

Diethyl Ether
 Concen: 19.092 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. -0.01 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Tgt Ion: 74 Resp: 15651
 Ion Ratio Lower Upper
 74 100
 45 107.0 61.4 184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.499 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.01 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

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ClientSampleId :

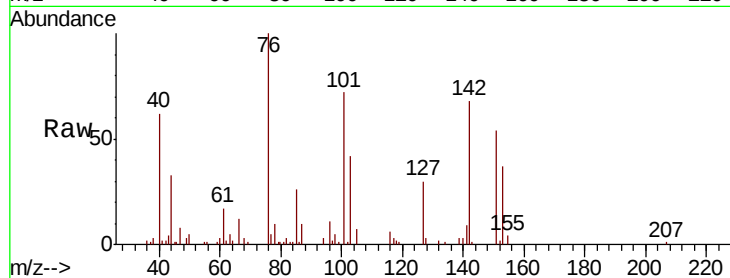
Tot Ion:101 Resp: 52636

Ion Ratio Lower Upper

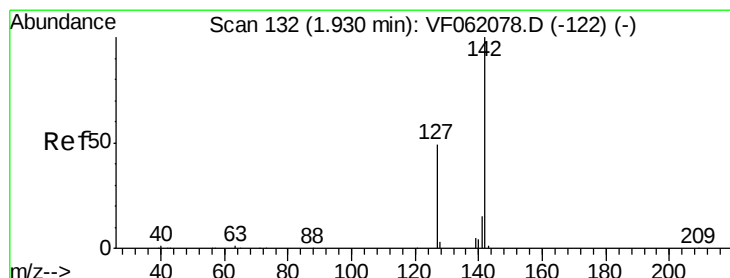
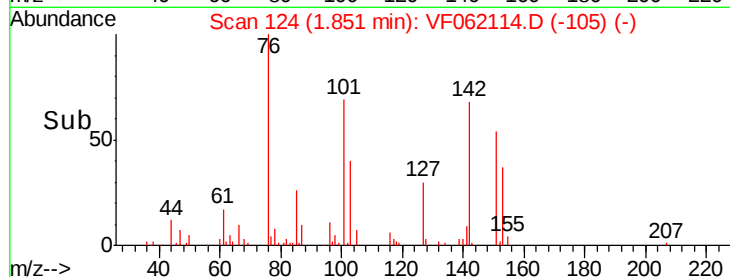
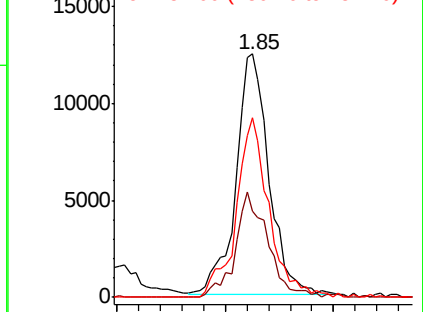
101 100

85 35.4 34.6 52.0

151 74.0 61.7 92.5



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: 17.813 ug/l

RT: 1.92 min Scan# 131

Delta R.T. -0.01 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

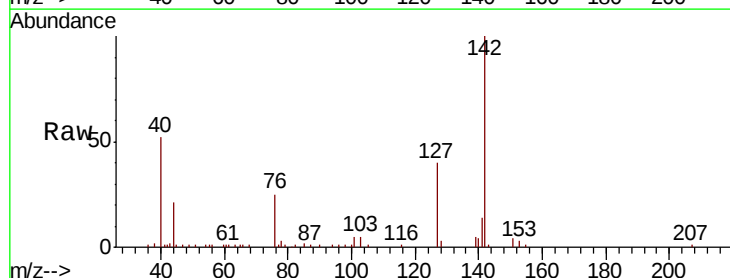
Tgt Ion:142 Resp: 82874

Ion Ratio Lower Upper

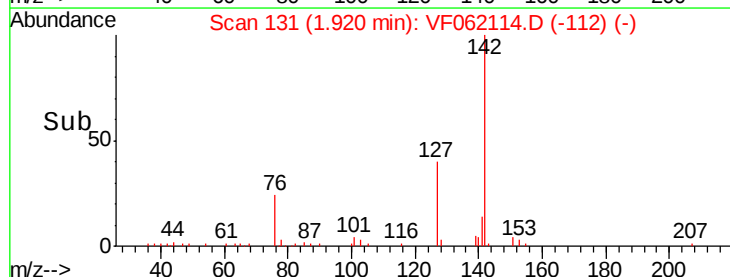
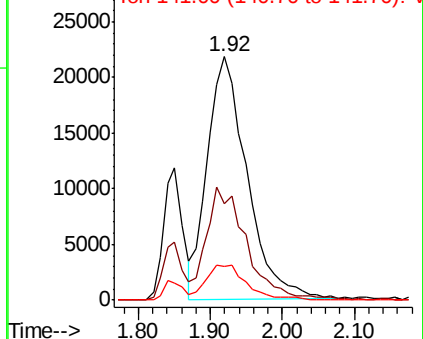
142 100

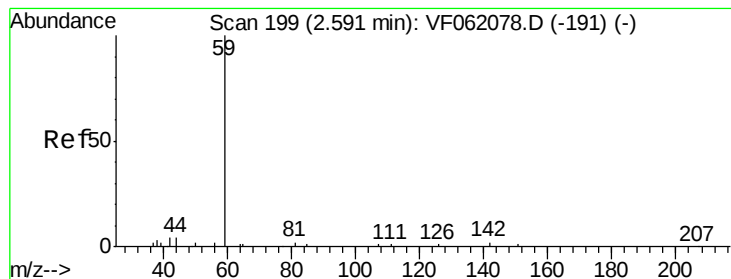
127 39.6 39.1 58.7

141 14.0 12.2 18.4



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V



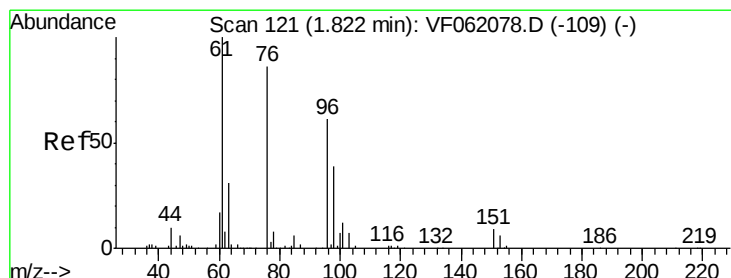
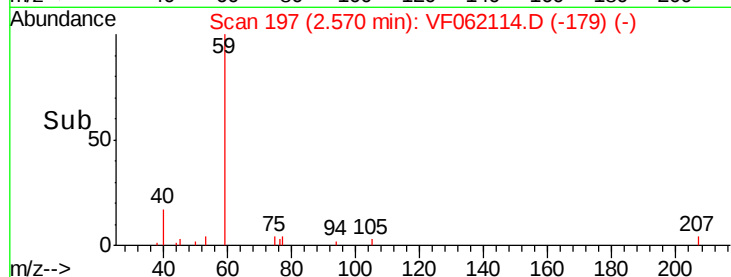
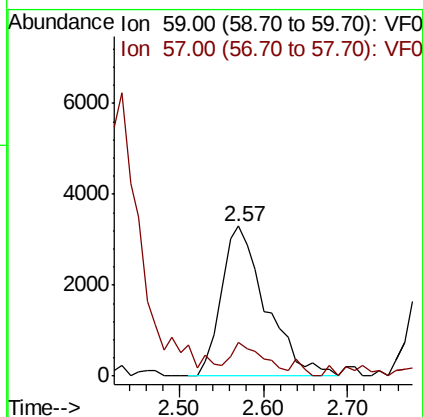
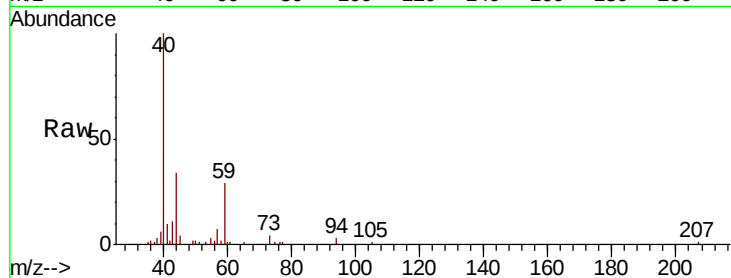


#11

Tert butyl alcohol
Concen: 124.245 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampled :

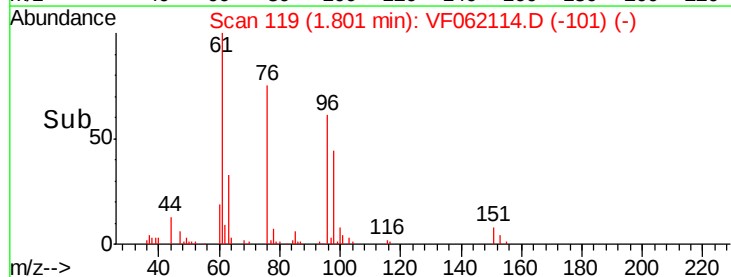
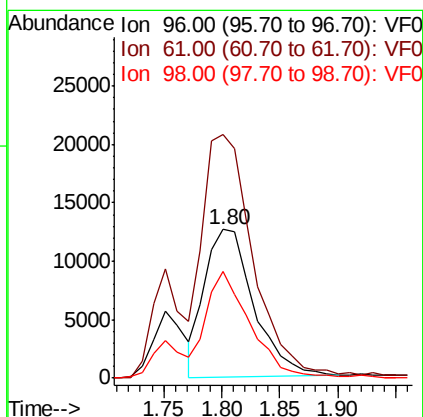
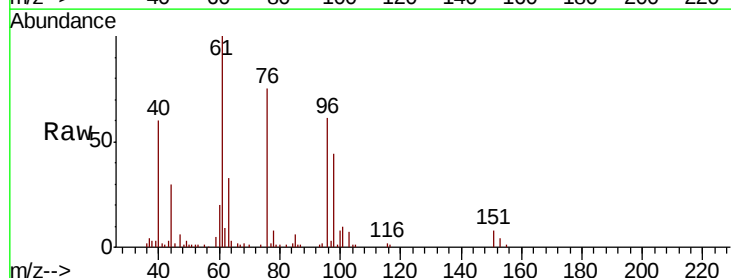
Tot Ion: 59 Resp: 12186
Ion Ratio Lower Upper
59 100
57 22.8 11.0 16.4#

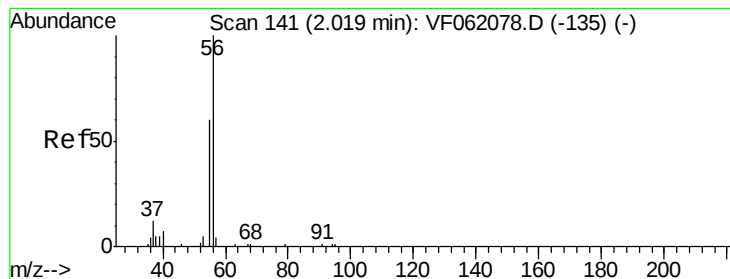


#12

1,1-Dichloroethene
Concen: 16.007 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion: 96 Resp: 36978
Ion Ratio Lower Upper
96 100
61 164.0 131.0 196.6
98 71.8 51.5 77.3





#13

Acrolein

Concen: 118.211 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

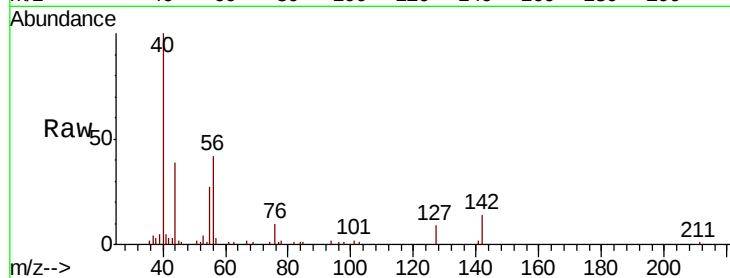
ClientSampleId :

Tot Ion: 56 Resp: 13942

Ion Ratio Lower Upper

56 100

55 65.1 49.0 73.4



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.00

5000

4000

3000

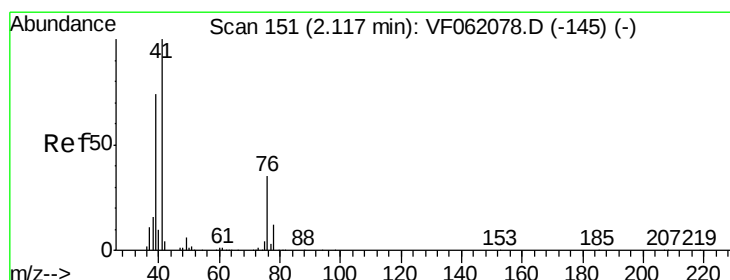
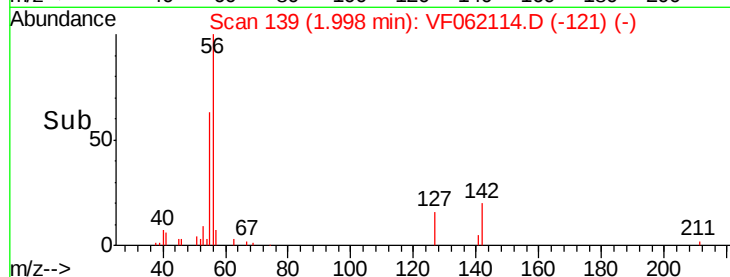
2000

1000

0

1.90 2.00 2.10

Time-->



#14

Allyl chloride

Concen: 21.884 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

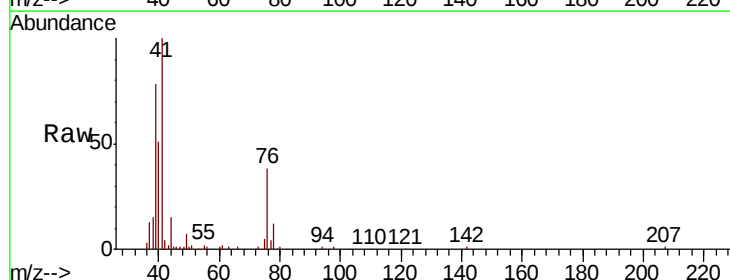
Tgt Ion: 41 Resp: 53973

Ion Ratio Lower Upper

41 100

39 77.8 59.8 89.8

76 37.8 30.0 45.0



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

30000

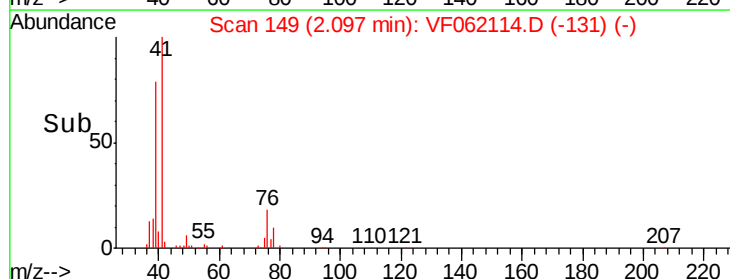
20000

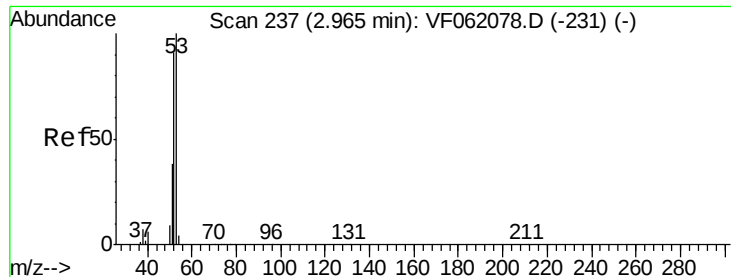
10000

0

2.00 2.05 2.10 2.15

Time-->





#15

Acrylonitrile

Concen: 115.223 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

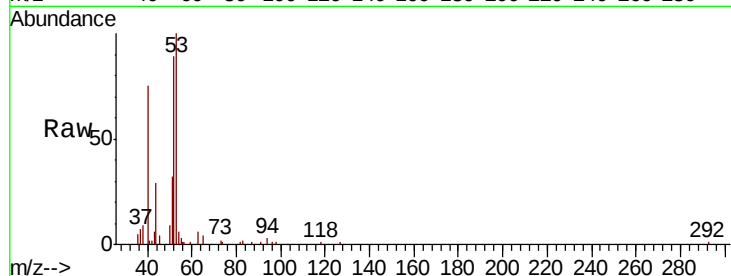
Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 53 Resp: 39740

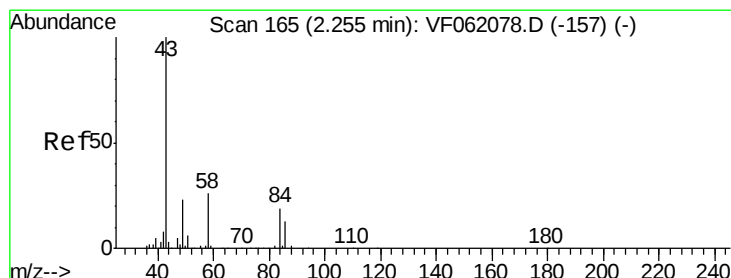
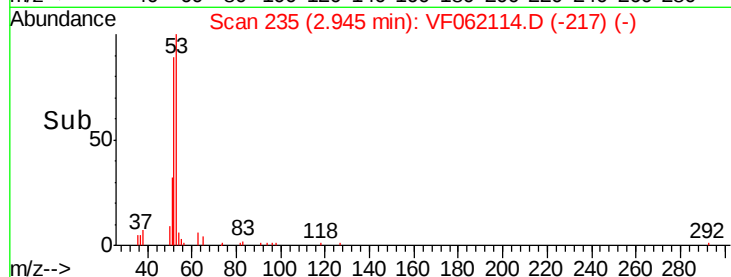
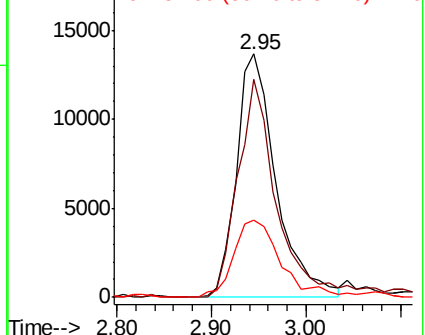
Ion	Ratio	Lower	Upper
53	100		
52	89.4	72.3	108.5
51	31.9	30.4	45.6



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 110.929 ug/l

RT: 2.24 min Scan# 163

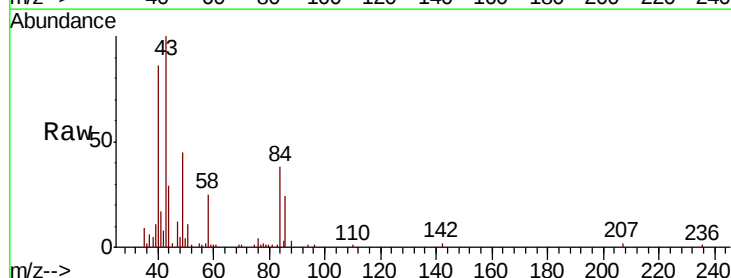
Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

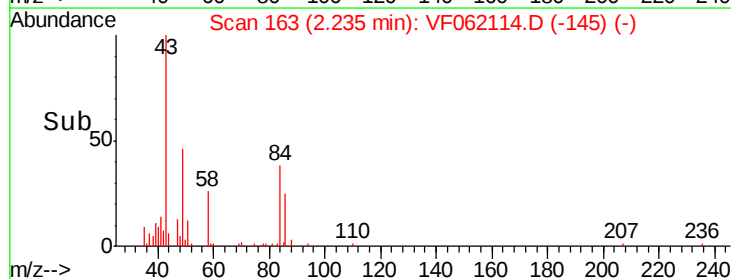
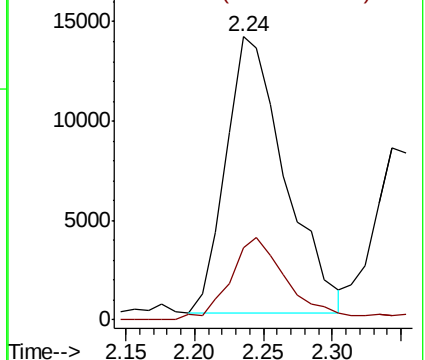
Tgt Ion: 43 Resp: 41617

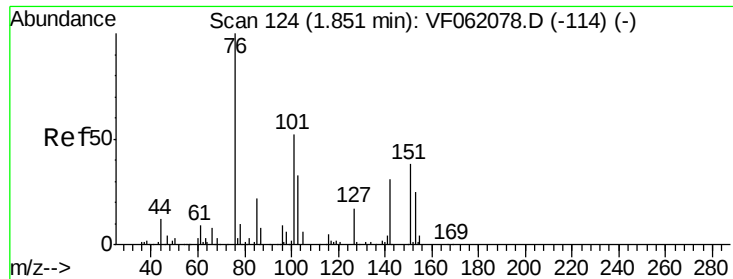
Ion	Ratio	Lower	Upper
43	100		
58	25.3	20.8	31.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

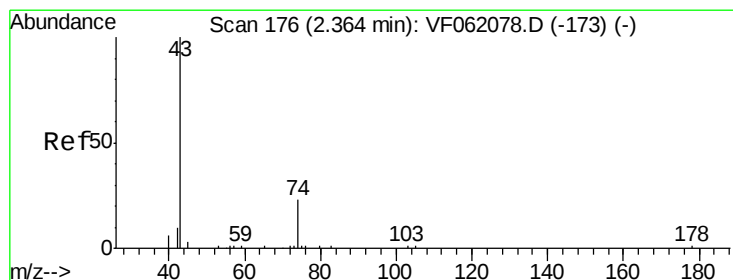
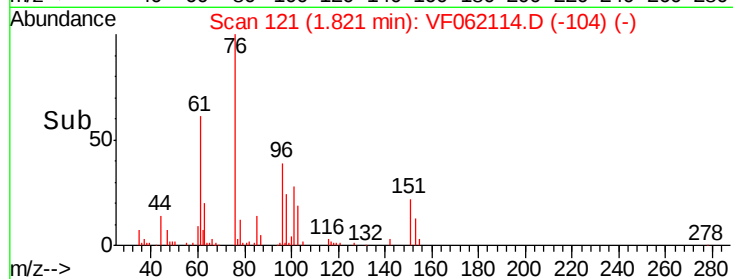
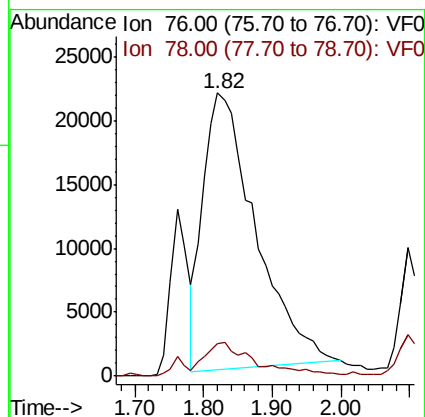
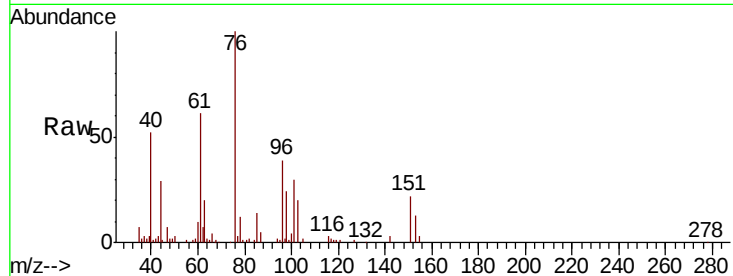




#17
Carbon Disulfide
Concen: 16.367 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

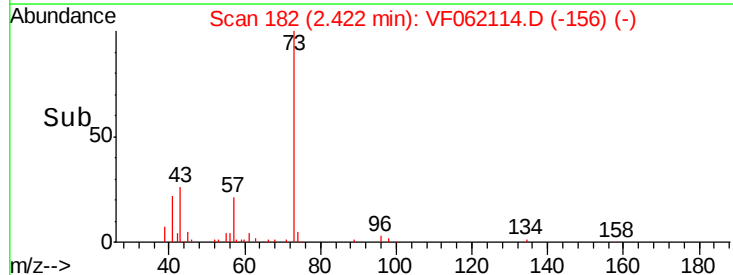
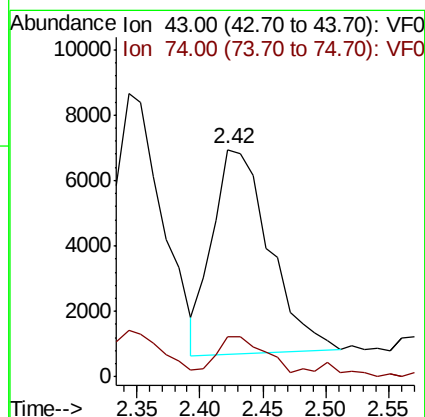
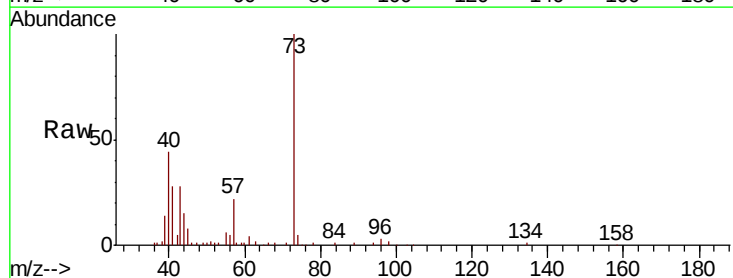
Instrument :
MSVOA_F
ClientSampled :

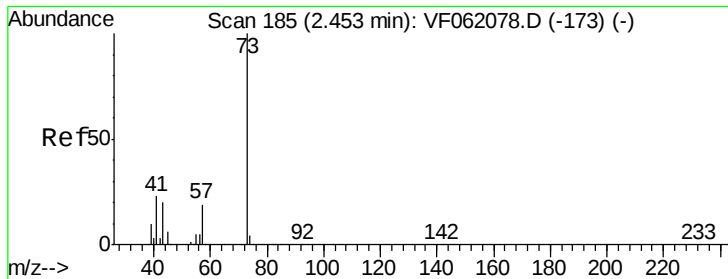
Tot Ion: 76 Resp: 115298
Ion Ratio Lower Upper
76 100
78 11.6 7.9 11.9



#18
Methyl Acetate
Concen: 22.065 ug/l
RT: 2.42 min Scan# 182
Delta R.T. 0.06 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion: 43 Resp: 19747
Ion Ratio Lower Upper
43 100
74 17.4 16.3 24.5

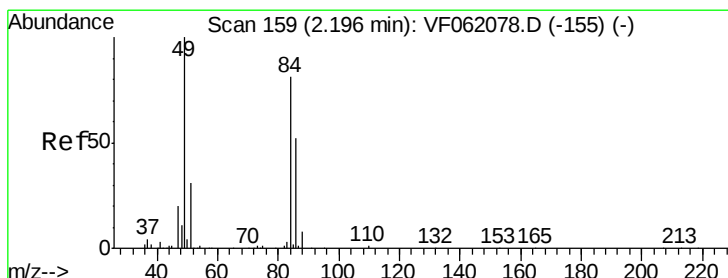
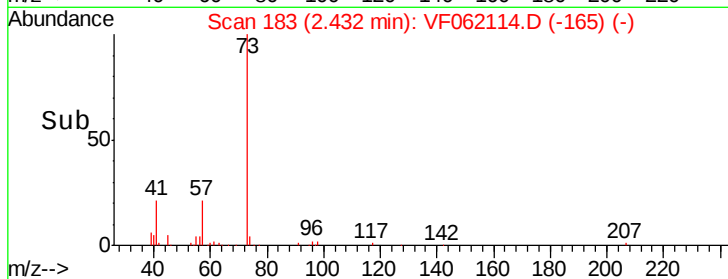
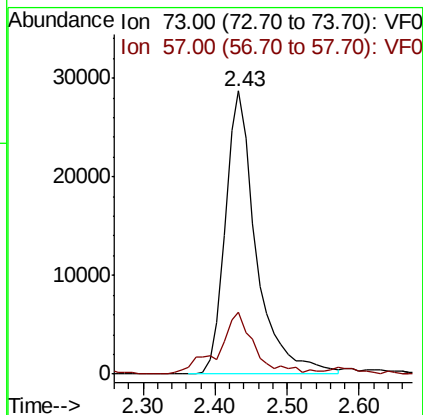
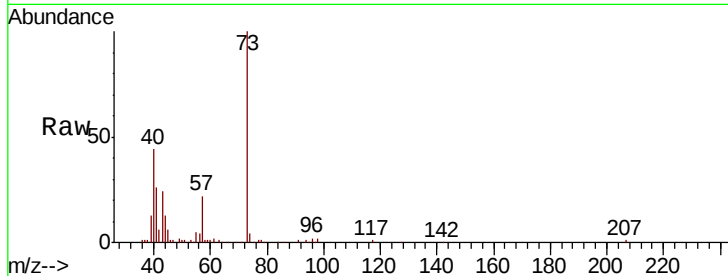




#19
Methyl tert-butyl Ether
Concen: 23.366 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

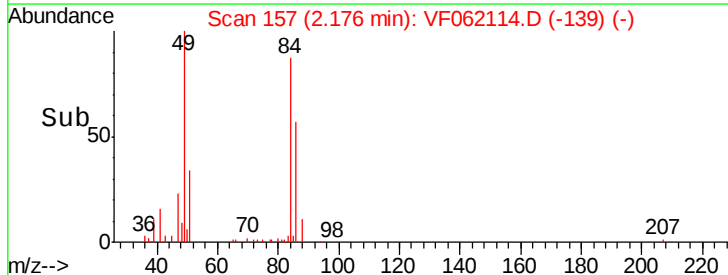
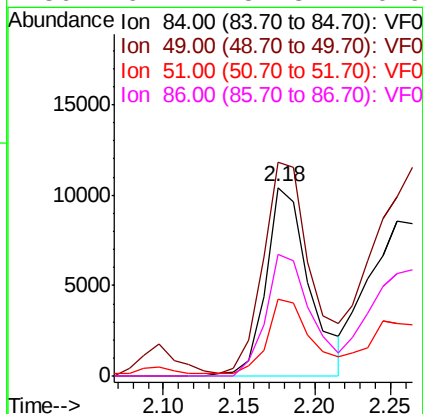
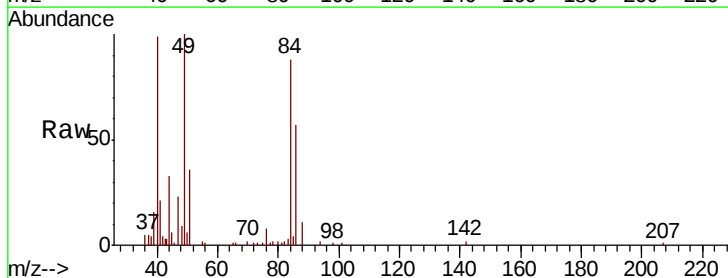
Instrument :
MSVOA_F
ClientSampleId :

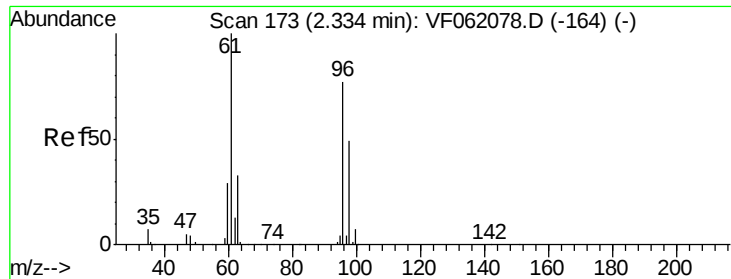
Tot Ion: 73 Resp: 85310
Ion Ratio Lower Upper
73 100
57 21.7 15.1 22.7



#20
Methylene Chloride
Concen: 6.507 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion: 84 Resp: 20981
Ion Ratio Lower Upper
84 100
49 113.2 100.4 150.6
51 40.8 31.0 46.6
86 64.4 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 20.072 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

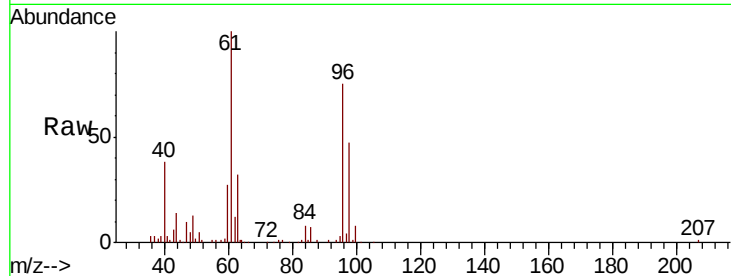
Tot Ion: 96 Resp: 44614

Ion Ratio Lower Upper

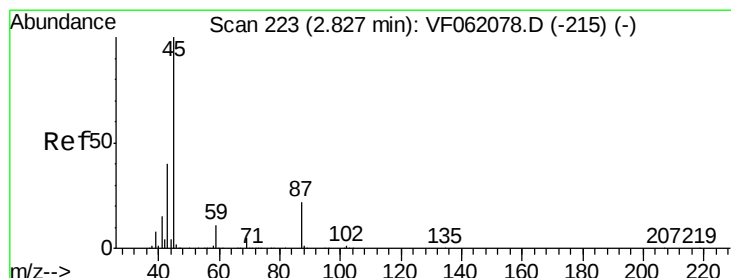
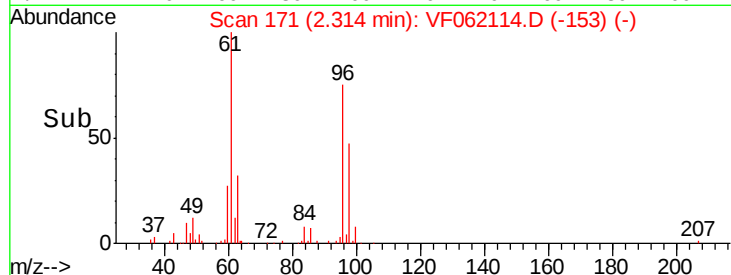
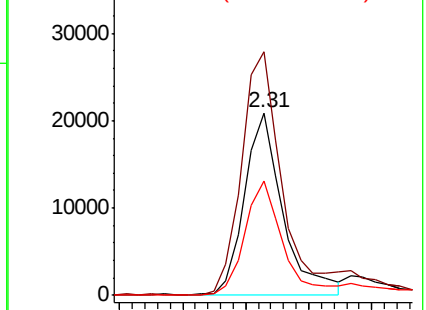
96 100

61 133.7 104.5 156.7

98 62.6 51.2 76.8



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: 22.659 ug/l

RT: 2.81 min Scan# 221

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Tgt Ion: 45 Resp: 146520

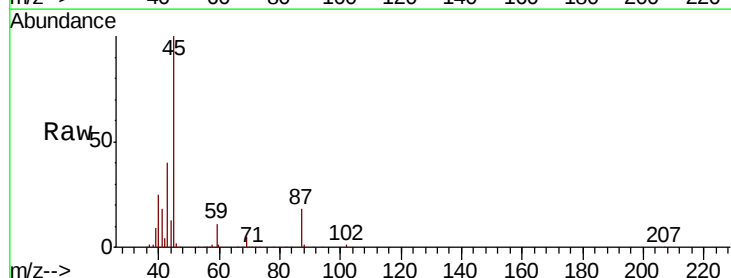
Ion Ratio Lower Upper

45 100

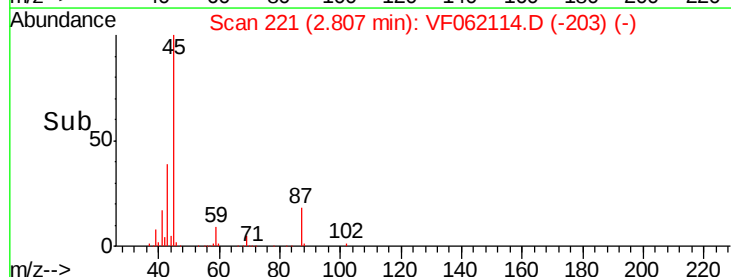
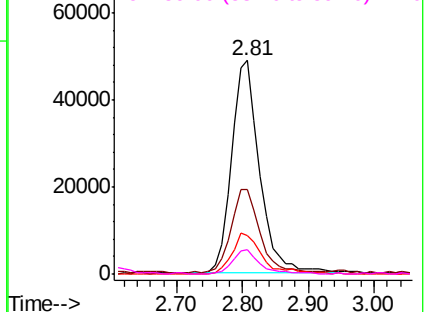
43 39.9 32.5 48.7

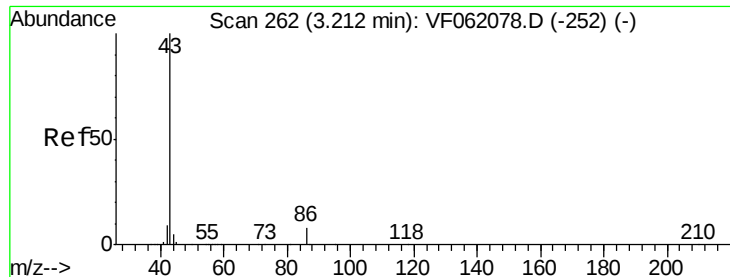
87 17.9 17.4 26.2

59 11.2 8.6 12.8



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: 123.562 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

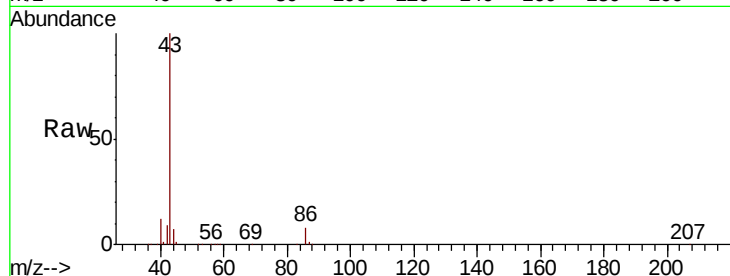
ClientSampled :

Tot Ion: 43 Resp: 327135

Ion Ratio Lower Upper

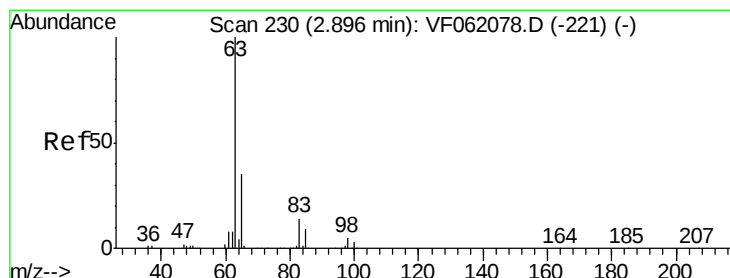
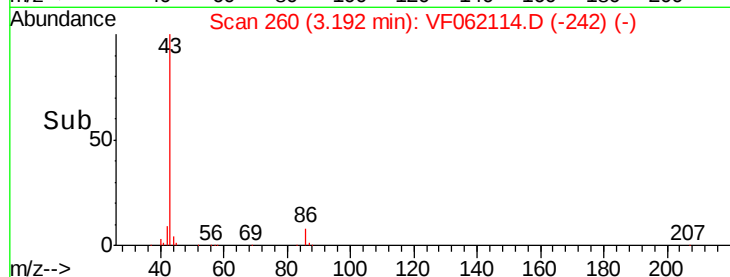
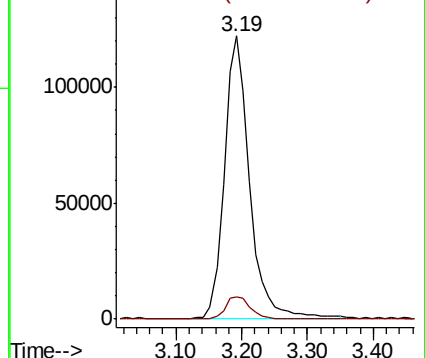
43 100

86 8.0 6.8 10.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 21.122 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

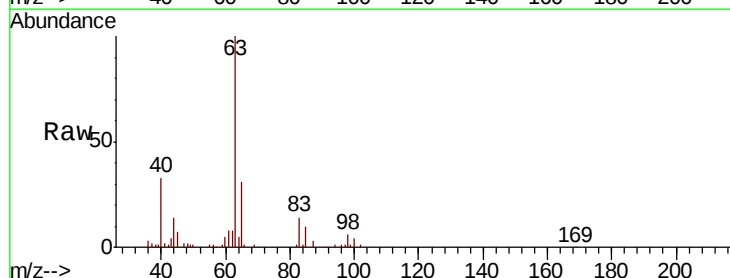
Tgt Ion: 63 Resp: 81908

Ion Ratio Lower Upper

63 100

98 5.5 2.7 8.1

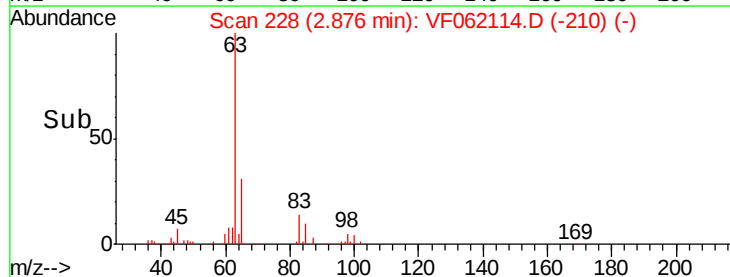
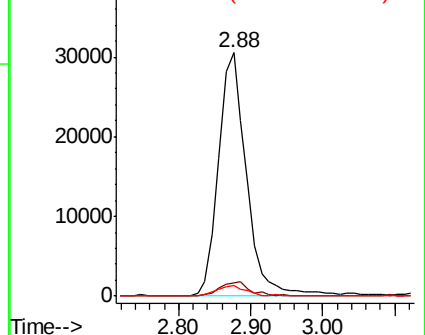
100 4.2 1.7 5.1

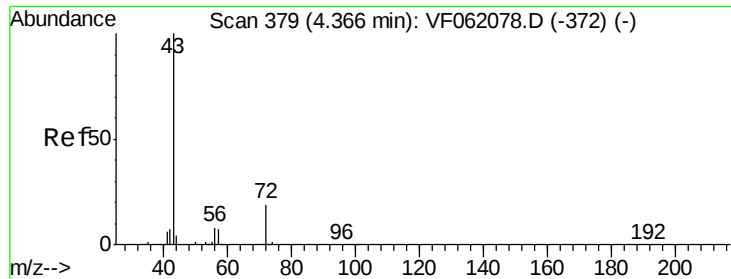


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 109.252 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

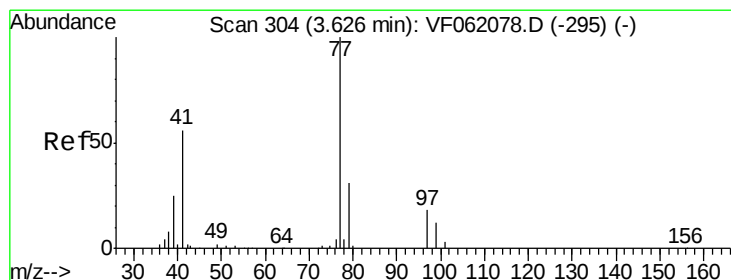
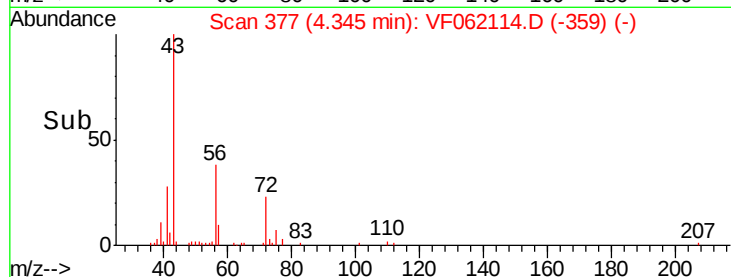
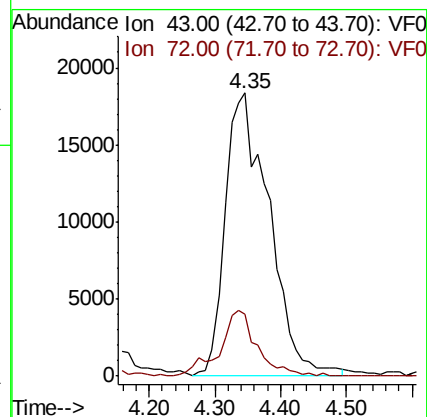
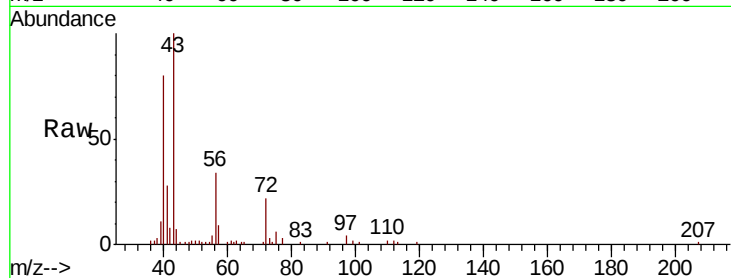
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 85568

Ion Ratio Lower Upper

43 100

72 22.0 16.7 25.1



#26

2,2-Dichloropropane

Concen: 22.947 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.03 min

Lab File: VF062114.D

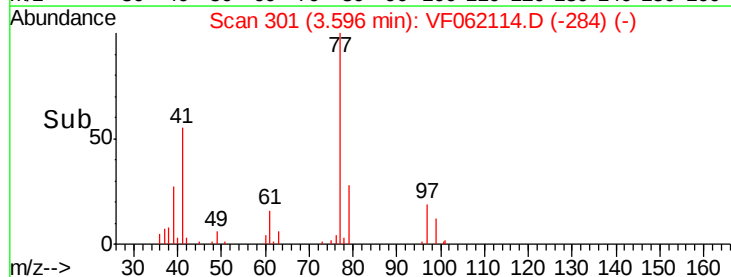
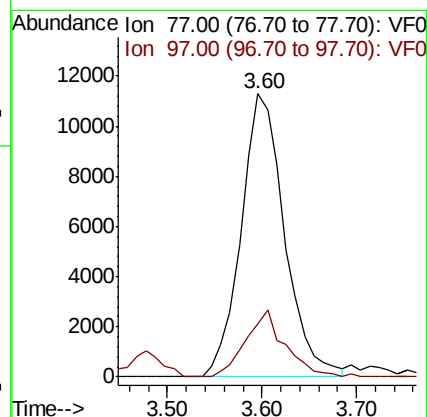
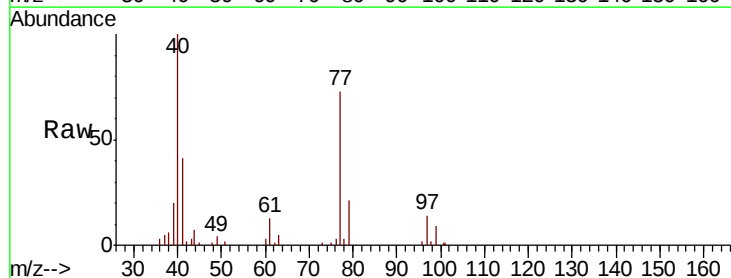
Acq: 23 Mar 2019 13:44

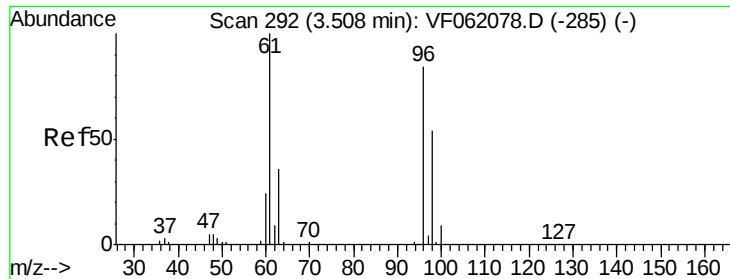
Tgt Ion: 77 Resp: 36078

Ion Ratio Lower Upper

77 100

97 18.7 10.3 30.9



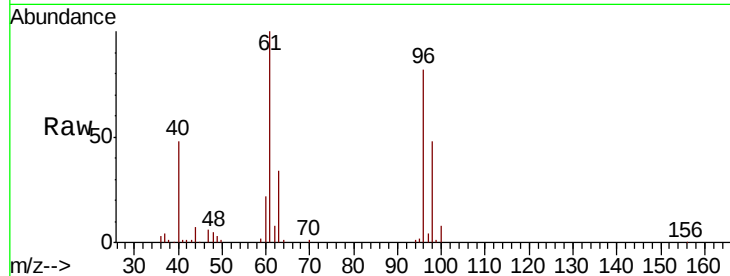


#27

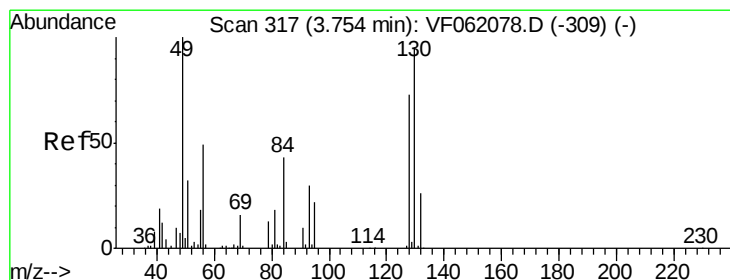
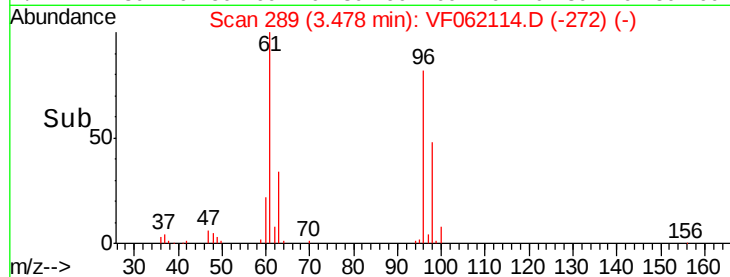
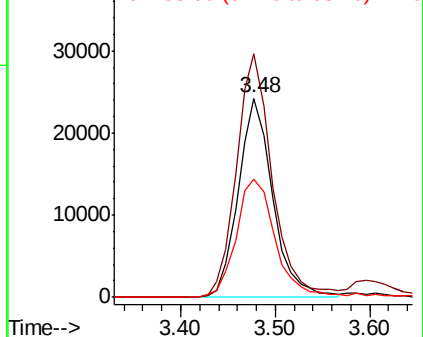
cis-1,2-Dichloroethene
 Concen: 20.816 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.03 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	96	Resp	61310
Ion	Ratio	Lower	Upper
96	100		
61	122.4	0.0	239.0
98	59.4	0.0	128.2



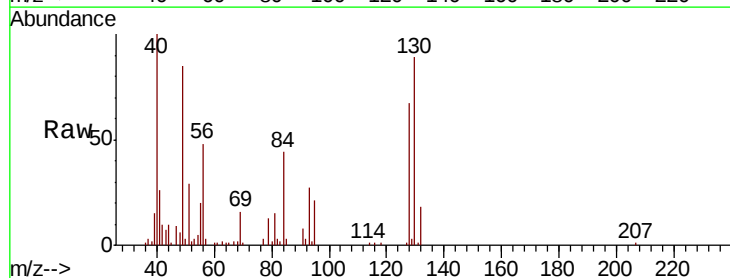
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



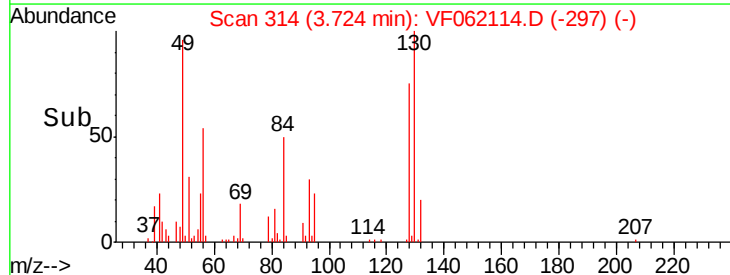
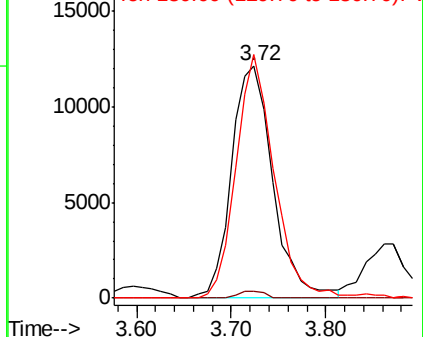
#28

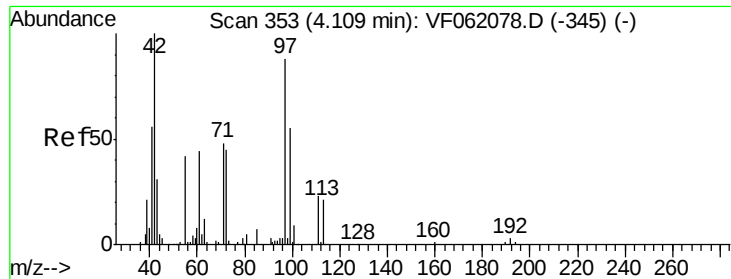
Bromochloromethane
 Concen: 23.305 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. -0.03 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Tgt Ion	49	Resp	36924
Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	5.6
130	104.7	75.5	113.3



Abundance Ion 49.00 (48.70 to 49.70): VF0
 Ion 129.00 (128.70 to 129.70): V
 Ion 130.00 (129.70 to 130.70): V

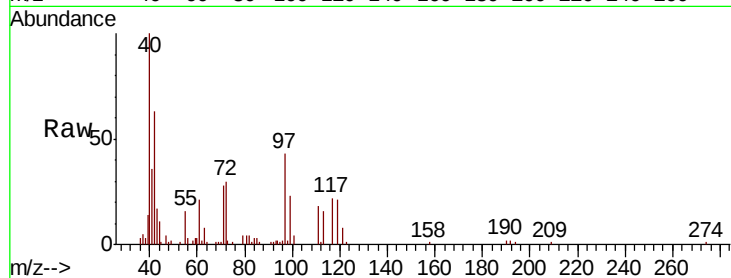




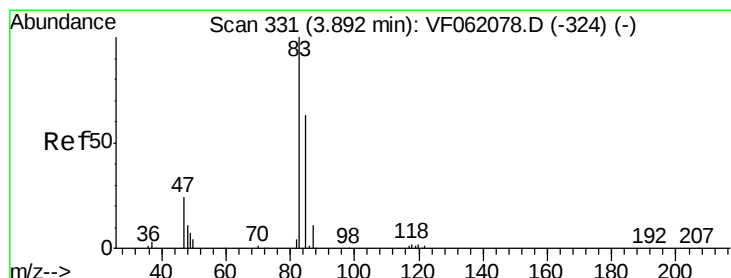
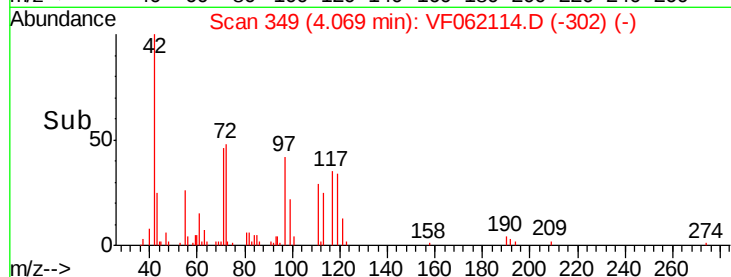
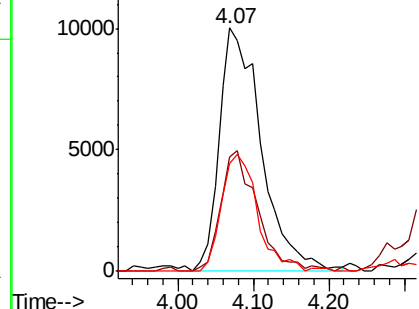
#29
Tetrahydrofuran
Concen: 113.749 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.04 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 42 Resp: 38735
Ion Ratio Lower Upper
42 100
72 43.6 33.3 49.9
71 41.2 35.0 52.4

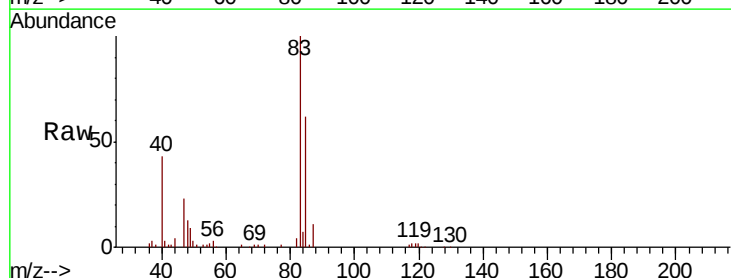


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

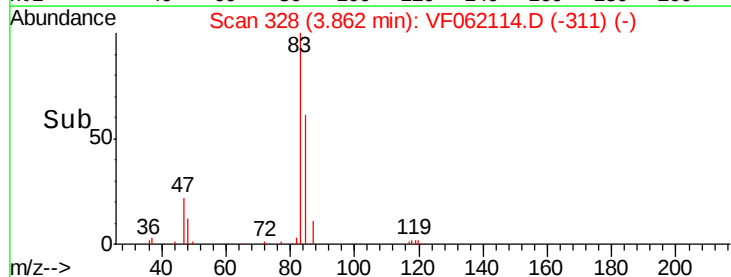
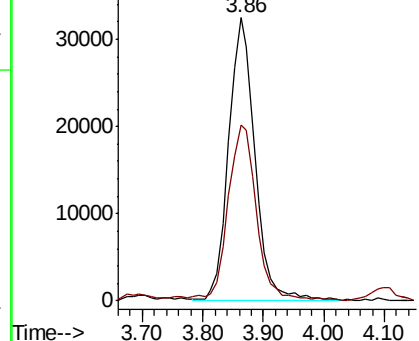


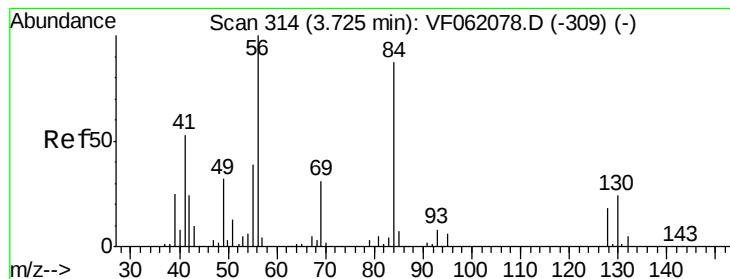
#30
Chloroform
Concen: 23.625 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion: 83 Resp: 96819
Ion Ratio Lower Upper
83 100
85 62.2 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cvclohexane

Concen: 11.360 ug/l

RT: 3.69 min Scan# 311

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

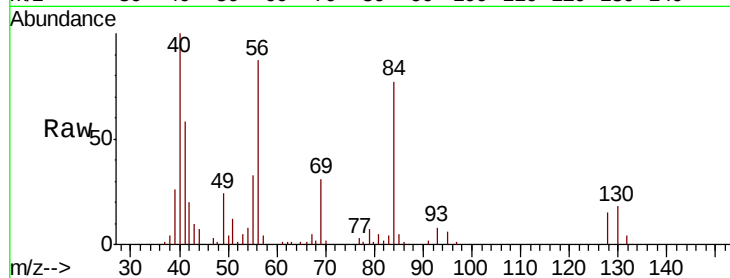
Tot Ion: 56 Resp: 46009

Ion Ratio Lower Upper

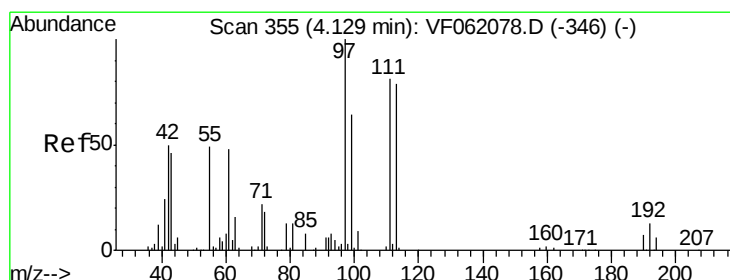
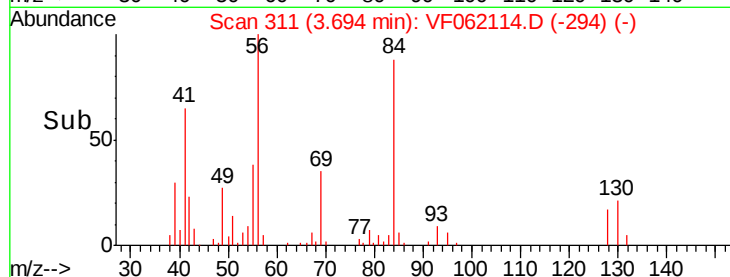
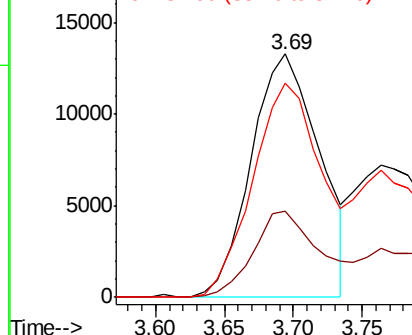
56 100

69 35.2 25.9 38.9

84 88.0 71.1 106.7



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: 21.304 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

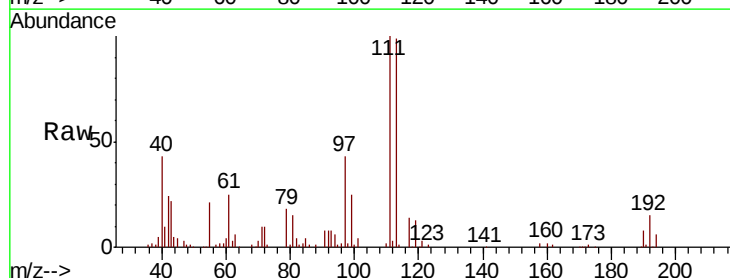
Tgt Ion: 97 Resp: 53110

Ion Ratio Lower Upper

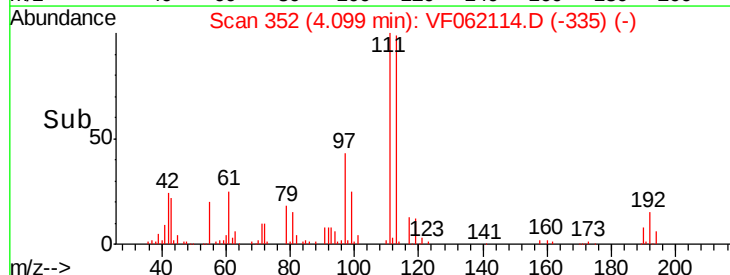
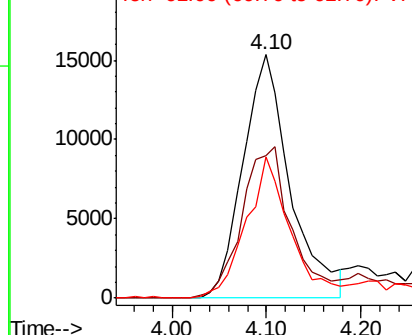
97 100

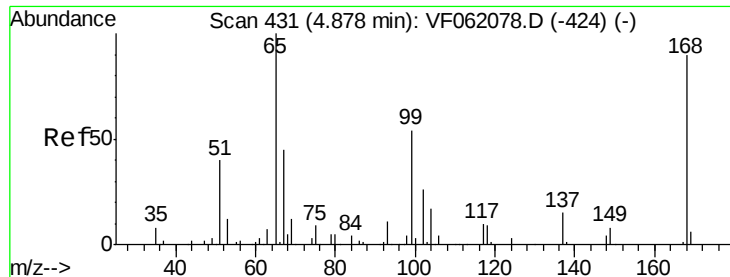
99 58.3 51.3 76.9

61 57.8 39.0 58.6



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

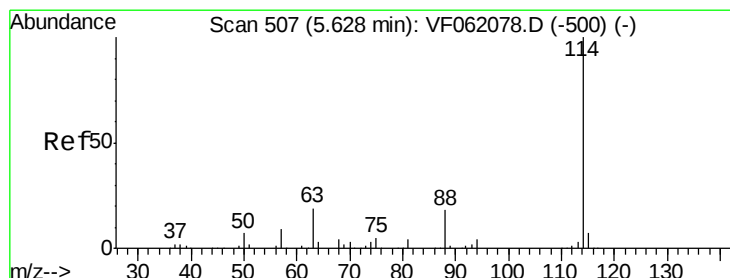
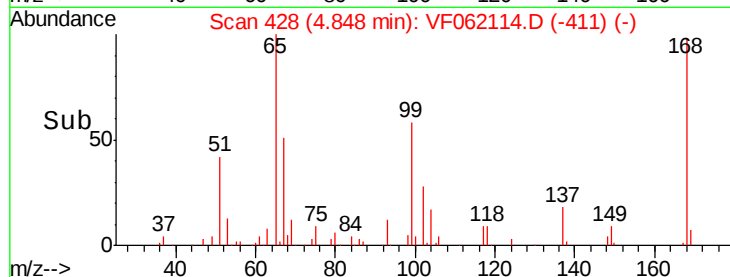
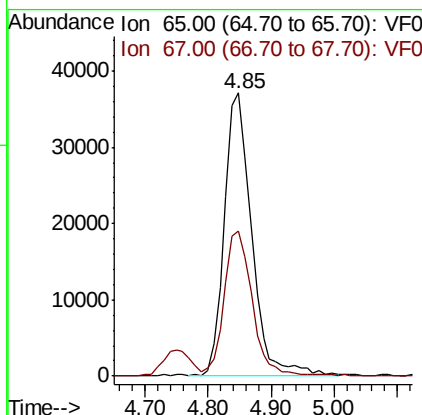
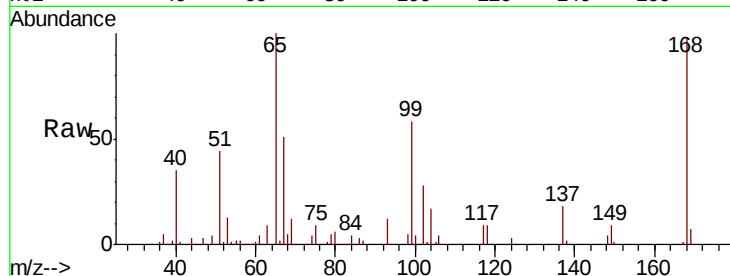




#33
 1,2-Dichloroethane-d4
 Concen: 62.829 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.03 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

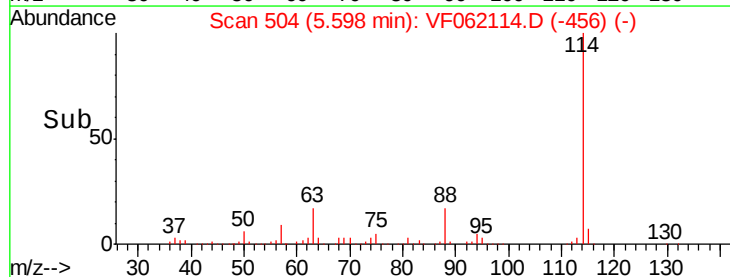
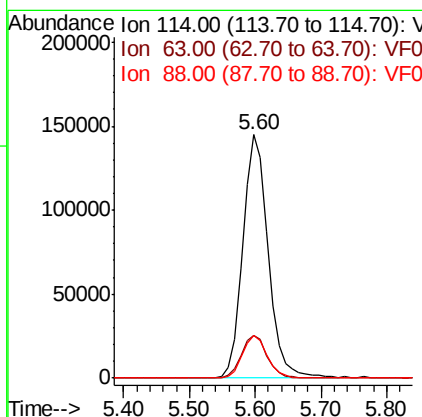
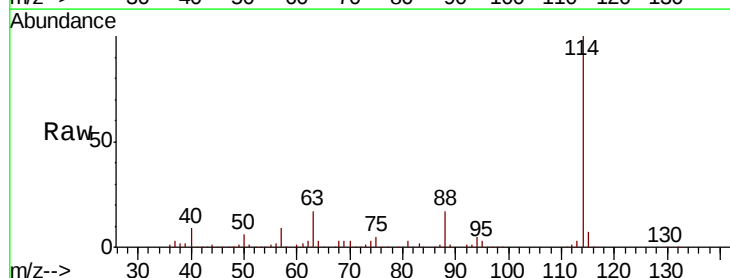
Instrument :
 MSVOA_F
 ClientSampleId :

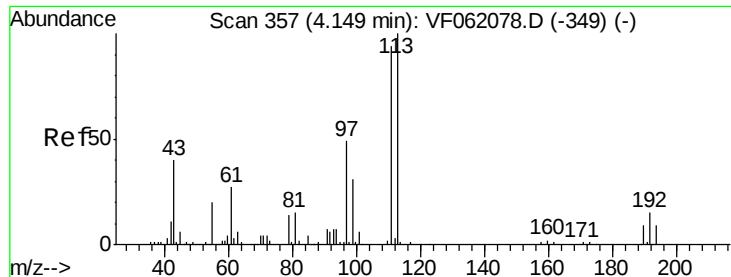
Tot Ion: 65 Resp: 111996
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.03 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Tgt Ion: 114 Resp: 391648
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 37.8
 88 17.3 0.0 36.4

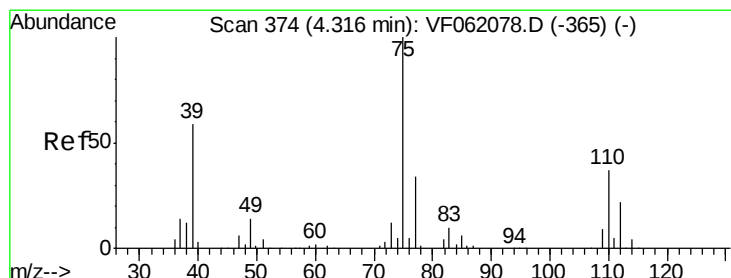
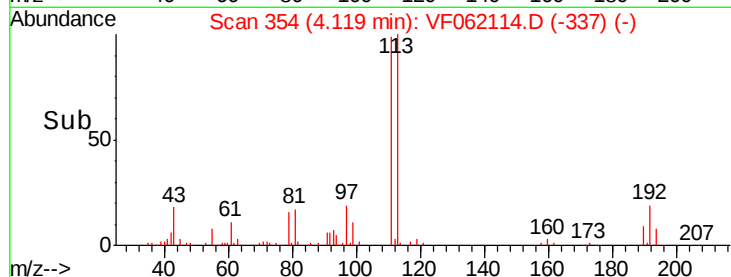
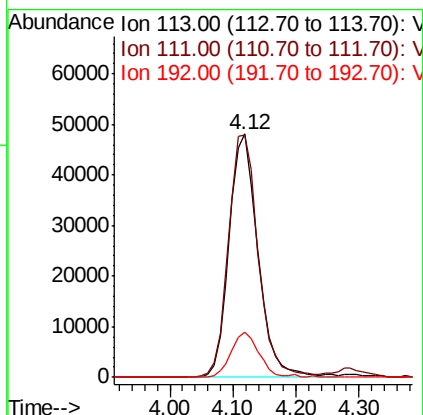
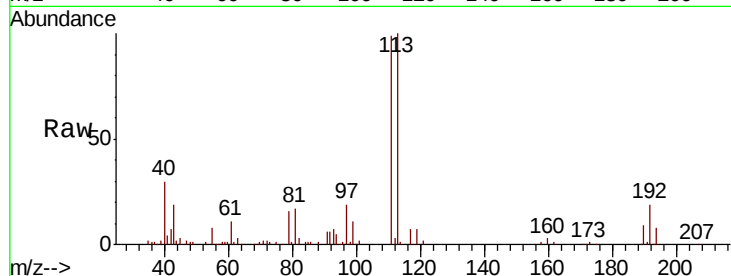




#35
 Dibromofluoromethane
 Concen: 57.569 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

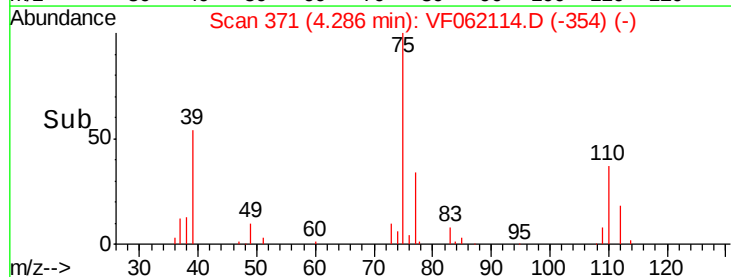
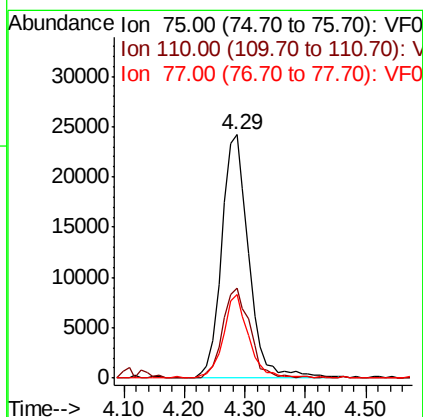
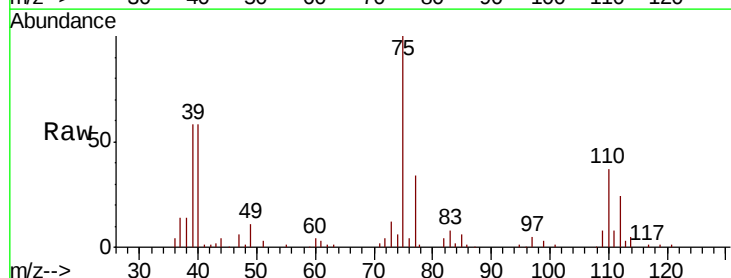
Instrument :
 MSVOA_F
 ClientSampleId :

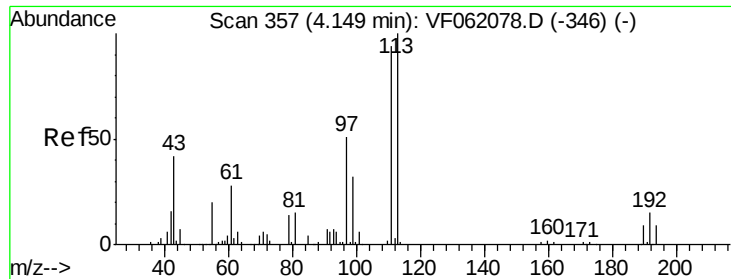
Tot Ion:113 Resp: 152519
 Ion Ratio Lower Upper
 113 100
 111 99.4 75.4 113.0
 192 18.7 12.3 18.5#



#36
 1,1-Dichloropropene
 Concen: 20.132 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.03 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Tgt Ion: 75 Resp: 75101
 Ion Ratio Lower Upper
 75 100
 110 36.9 18.5 55.5
 77 34.4 27.4 41.0

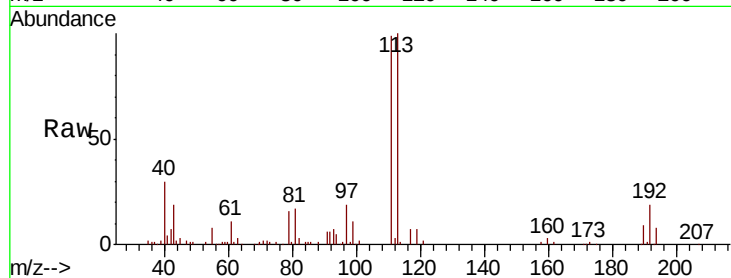




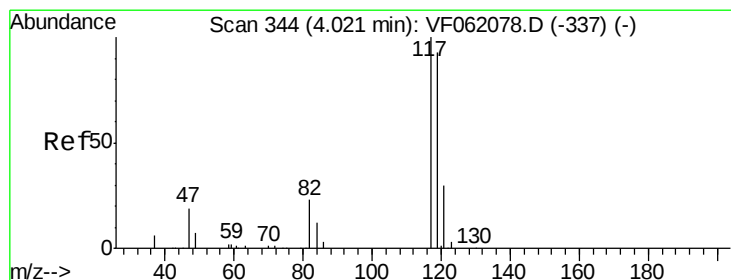
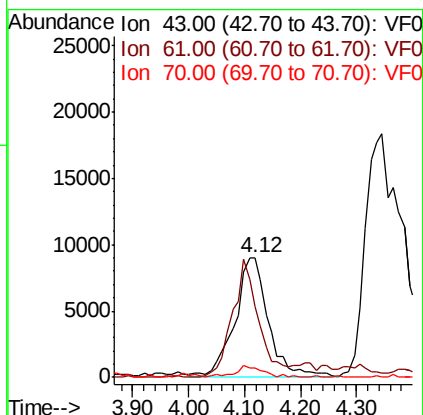
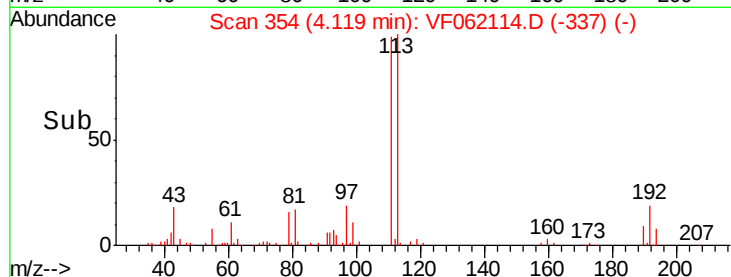
#37
Ethyl Acetate
Concen: 23.294 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 37977
Ion Ratio Lower Upper
43 100
61 59.3 53.6 80.4
70 7.6 9.0 13.6#

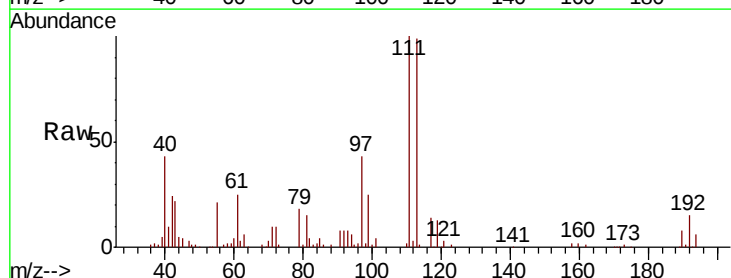


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

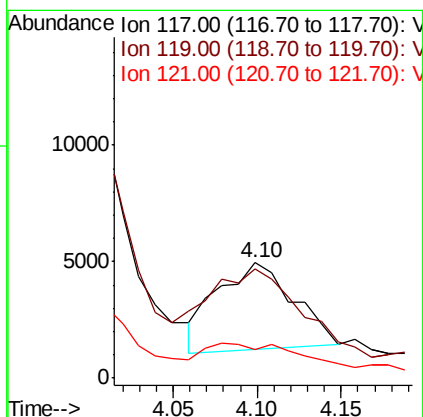
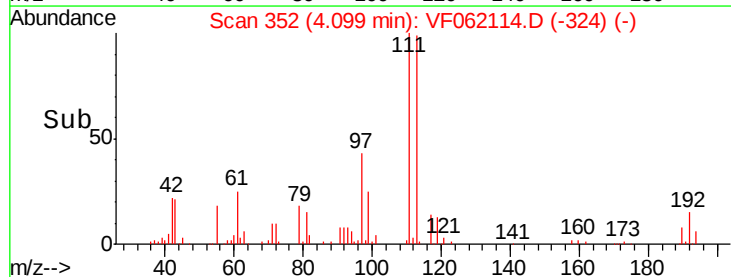


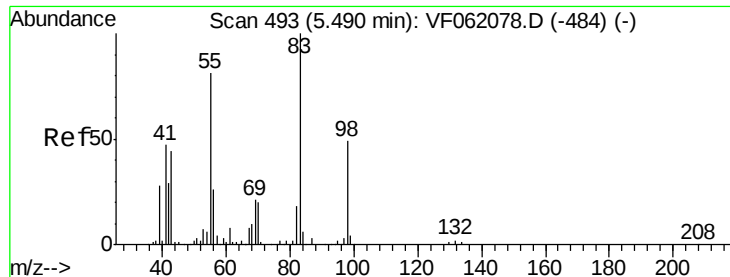
#38
Carbon Tetrachloride
Concen: 4.674 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.08 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion: 117 Resp: 11883
Ion Ratio Lower Upper
117 100
119 94.6 74.7 112.1
121 24.3 23.6 35.4



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

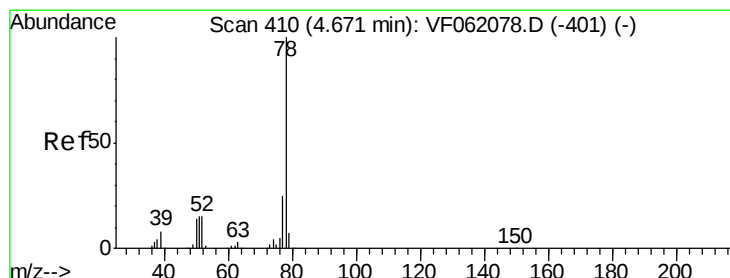
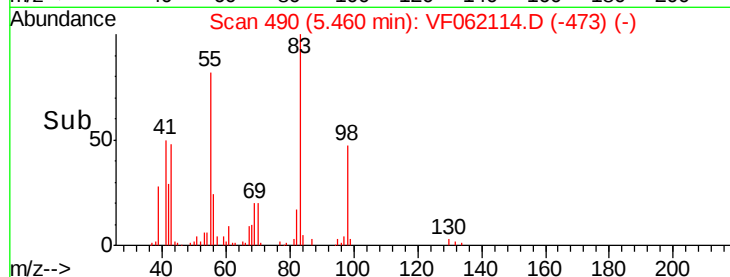
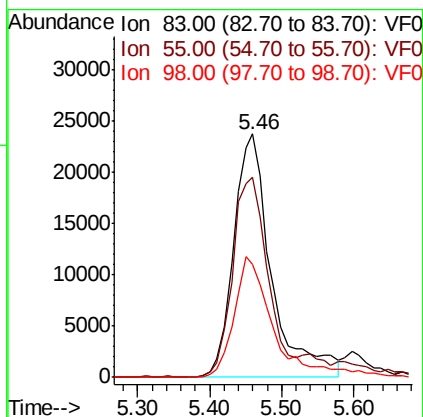
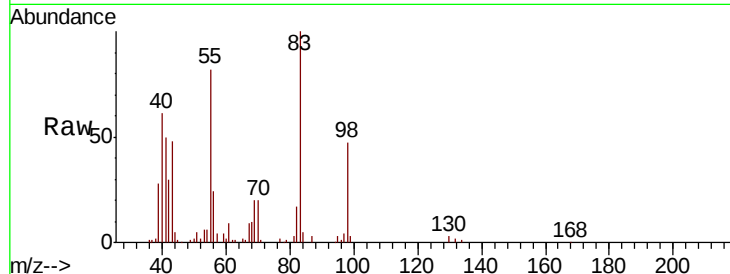




#39
Methvlcvclohexane
Concen: 20.130 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

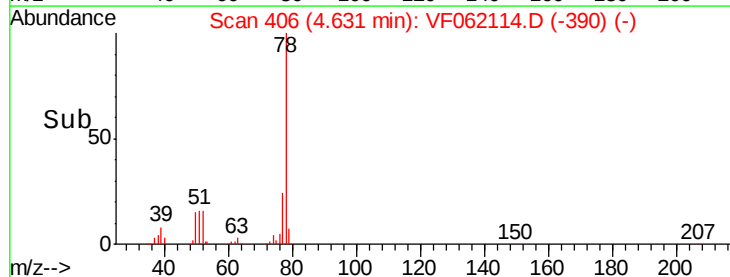
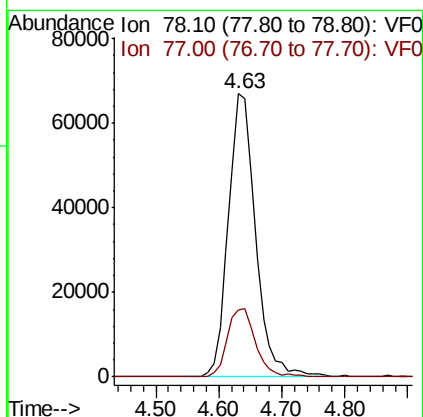
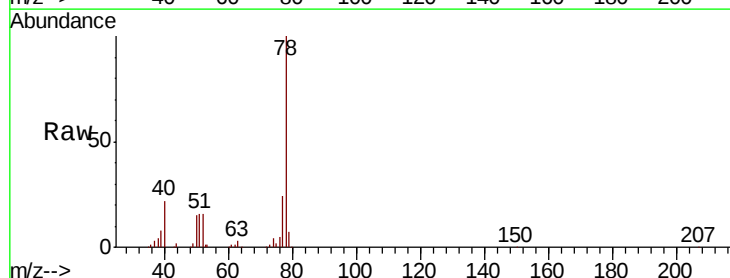
Instrument :
MSVOA_F
ClientSampleId :

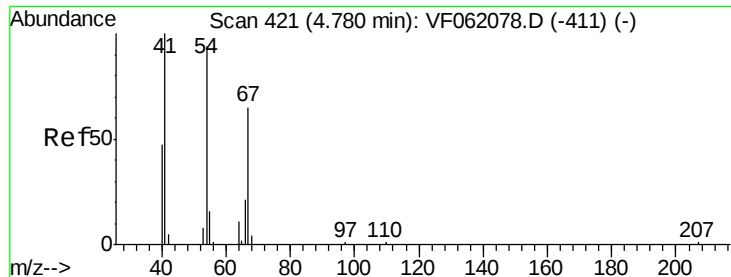
Tot Ion: 83 Resp: 87153
Ion Ratio Lower Upper
83 100
55 82.4 64.5 96.7
98 46.5 39.1 58.7



#40
Benzene
Concen: 19.971 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion: 78 Resp: 199720
Ion Ratio Lower Upper
78 100
77 23.9 19.8 29.6

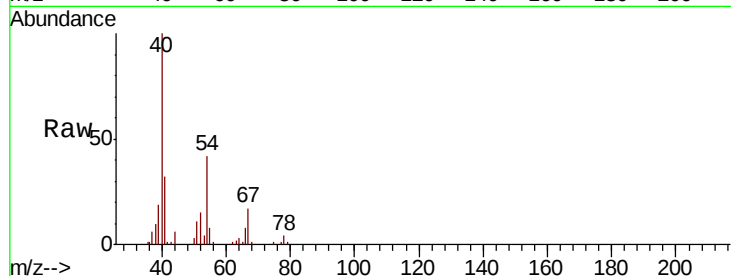




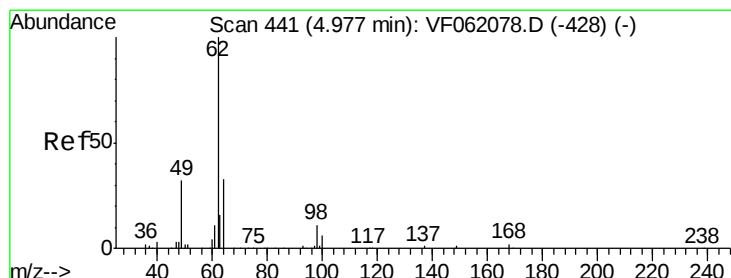
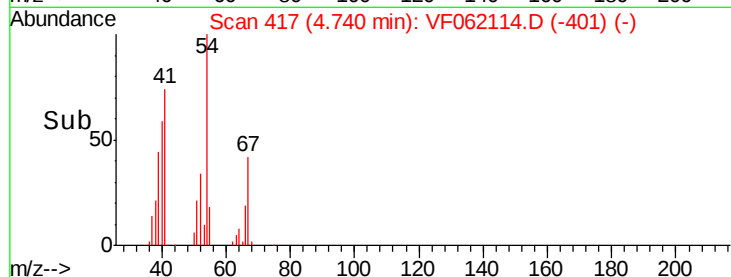
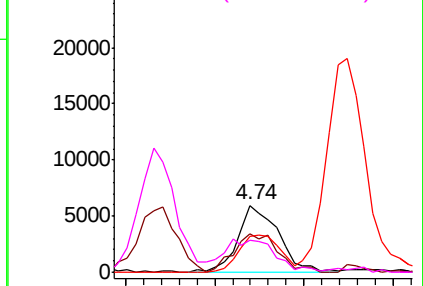
#41
Methacrylonitrile
Concen: 21.873 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	18868
Ion	Ratio	Lower	Upper
41	100		
39	58.2	43.5	65.3
67	54.6	51.6	77.4
52	47.1	36.5	54.7

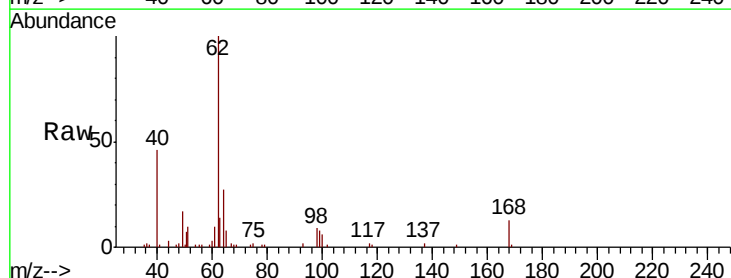


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

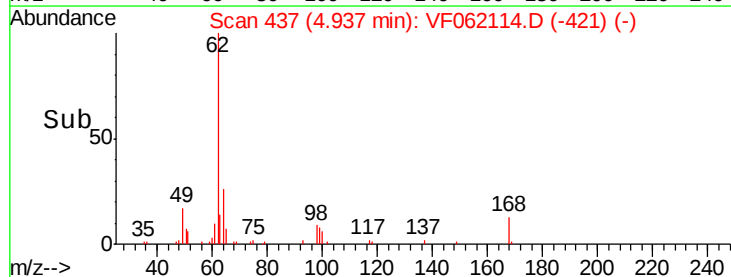
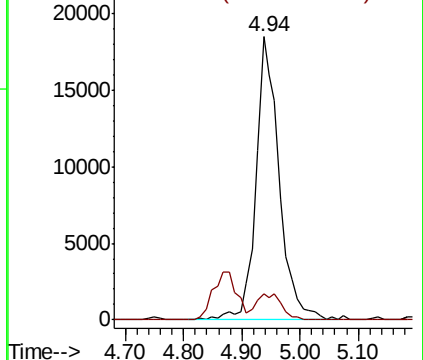


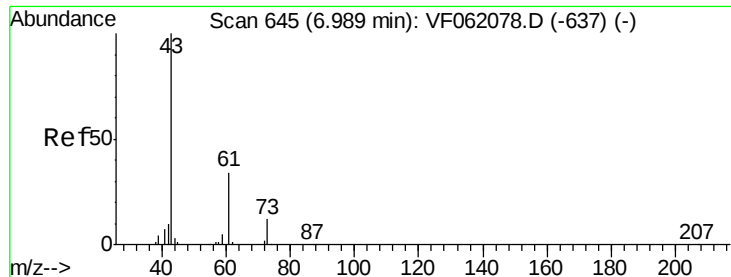
#42
1,2-Dichloroethane
Concen: 21.829 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion:	62	Resp:	51624
Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	23.2



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



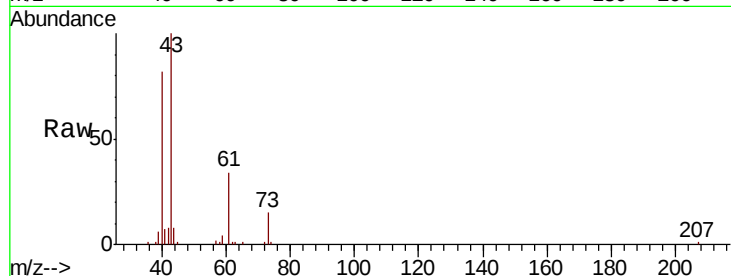


#43

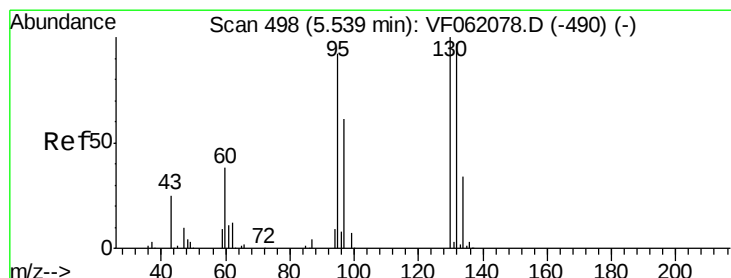
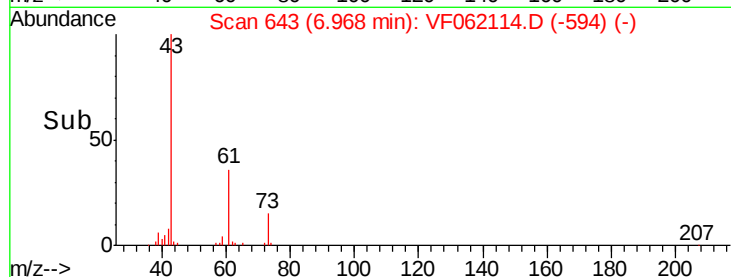
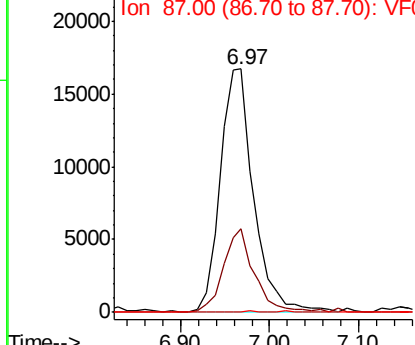
Isopropyl Acetate
 Concen: 22.253 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.02 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 43936
 Ion Ratio Lower Upper
 43 100
 61 34.4 27.0 40.4
 87 0.0 0.4 0.6#



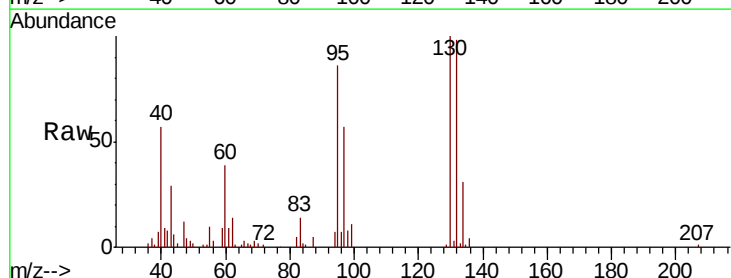
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



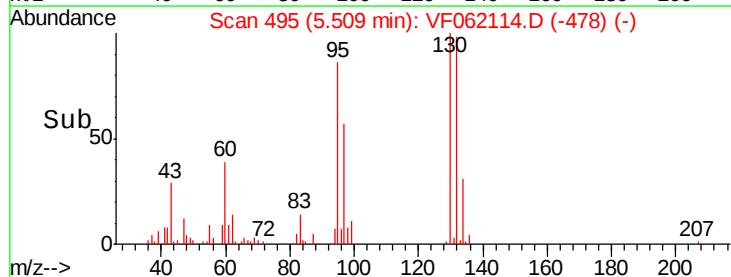
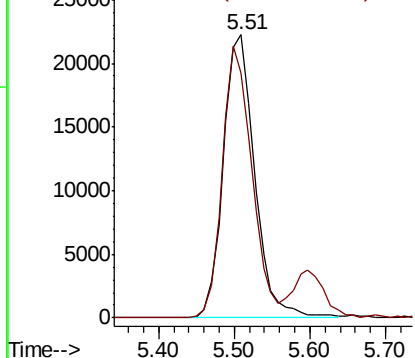
#44

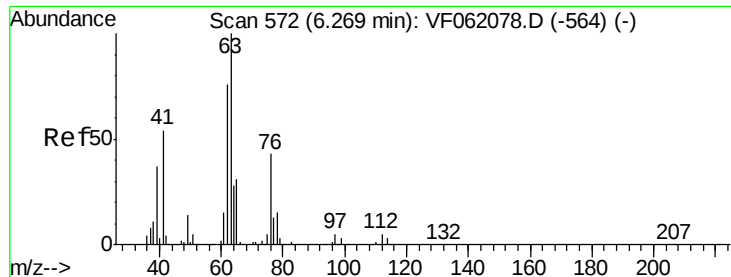
Trichloroethene
 Concen: 20.863 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.03 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Tgt Ion: 130 Resp: 63789
 Ion Ratio Lower Upper
 130 100
 95 86.4 0.0 183.4



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 19.694 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

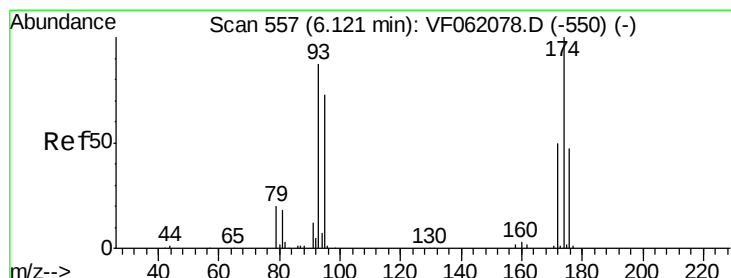
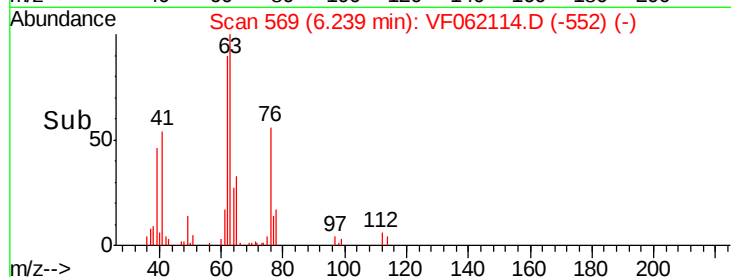
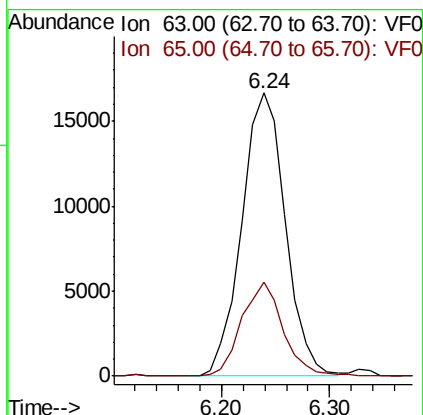
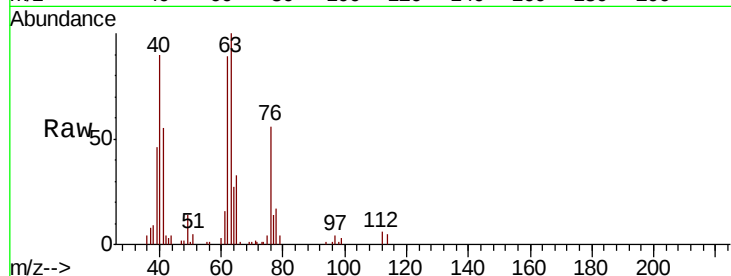
ClientSampleId :

Tot Ion: 63 Resp: 46974

Ion Ratio Lower Upper

63 100

65 33.0 24.9 37.3



#46

Dibromomethane

Concen: 20.803 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

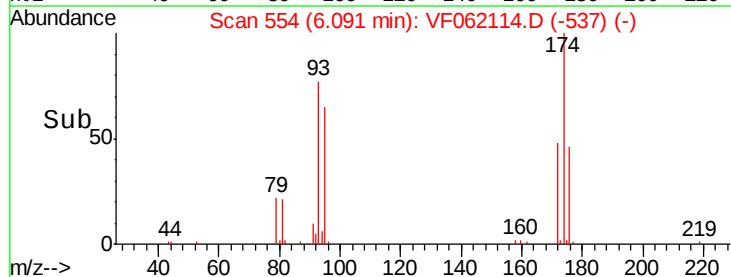
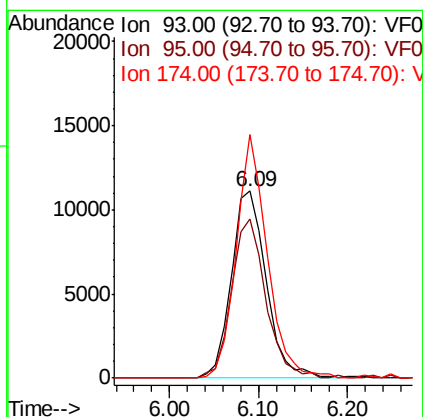
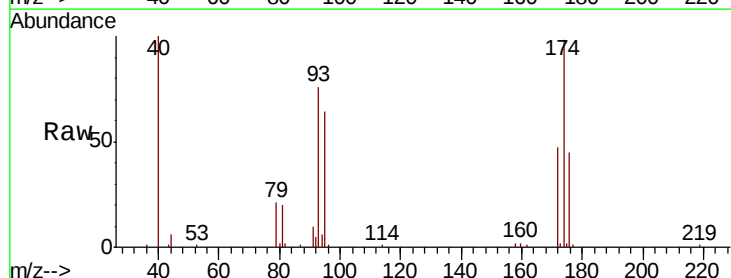
Tgt Ion: 93 Resp: 30340

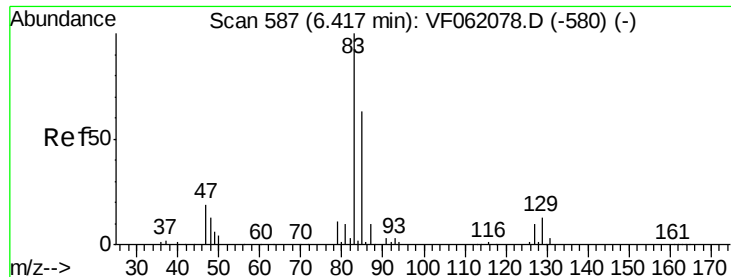
Ion Ratio Lower Upper

93 100

95 85.0 67.4 101.2

174 130.2 92.0 138.0





#47

Bromodichloromethane

Concen: 21.122 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

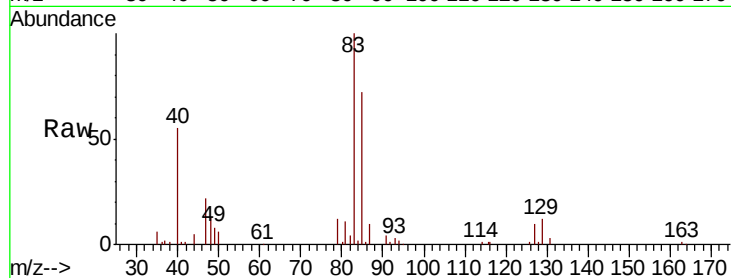
Tot Ion: 83 Resp: 68232

Ion Ratio Lower Upper

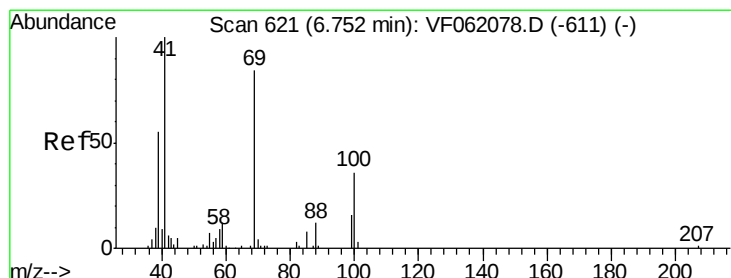
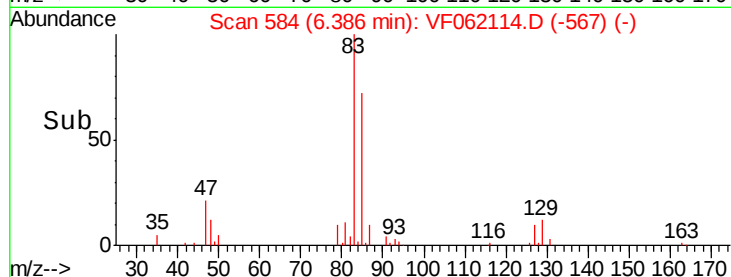
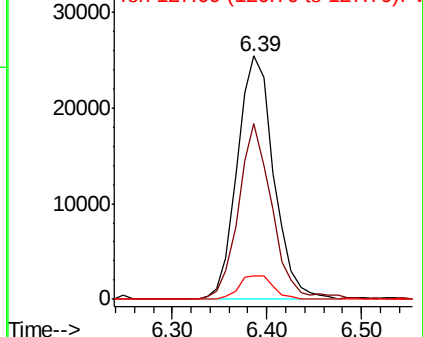
83 100

85 72.3 50.7 76.1

127 9.7 7.8 11.6



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: 22.586 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.04 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

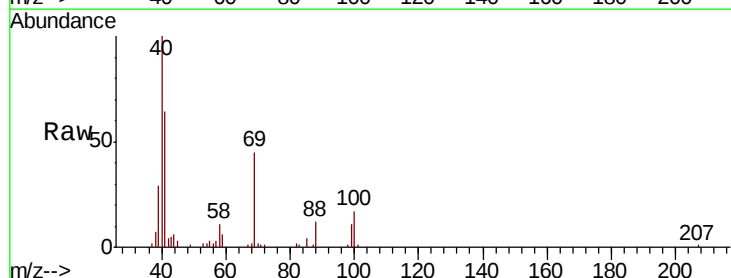
Tgt Ion: 41 Resp: 25390

Ion Ratio Lower Upper

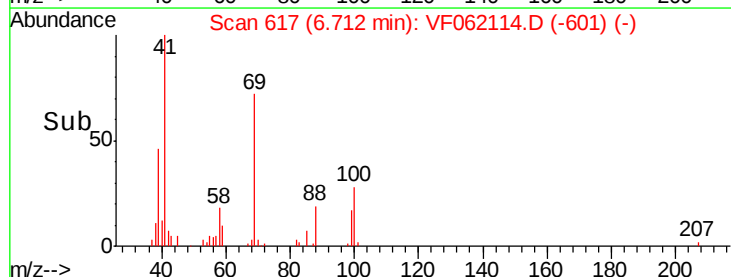
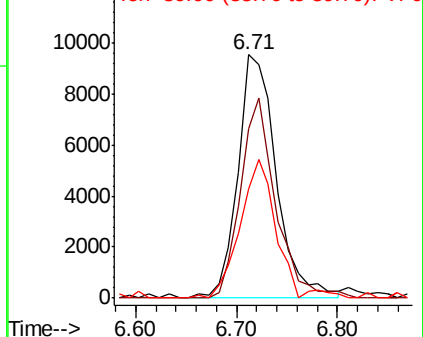
41 100

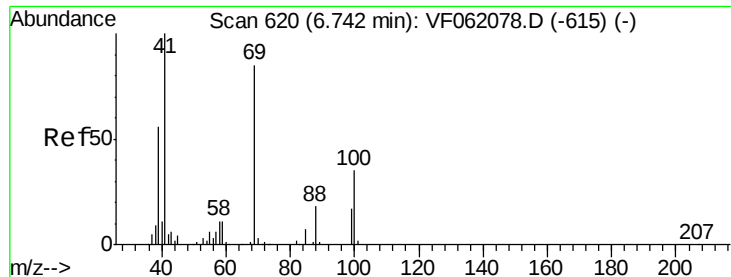
69 69.7 66.6 100.0

39 44.8 43.6 65.4



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

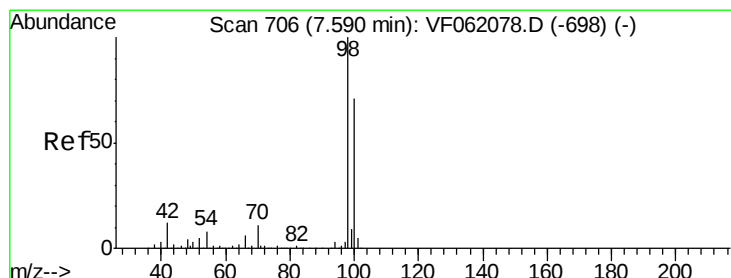
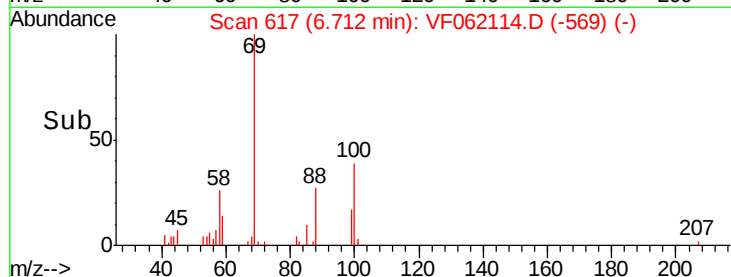
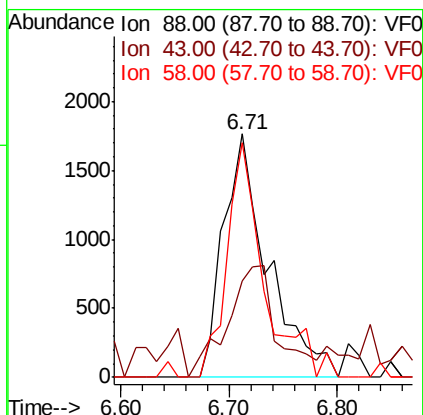
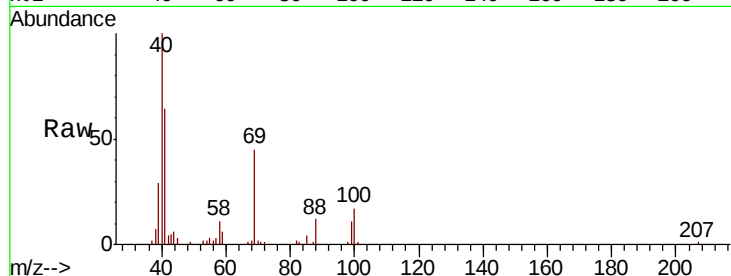




#49
1,4-Dioxane
Concen: 515.199 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

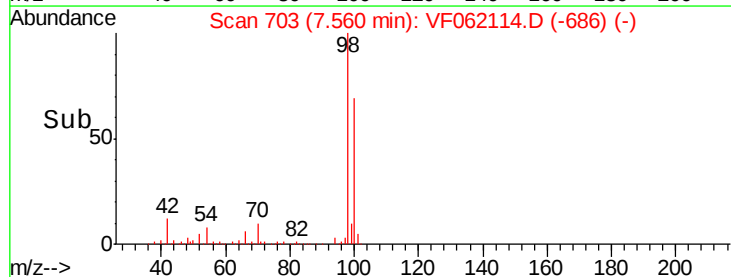
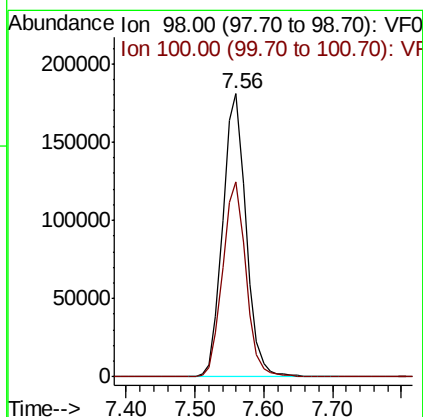
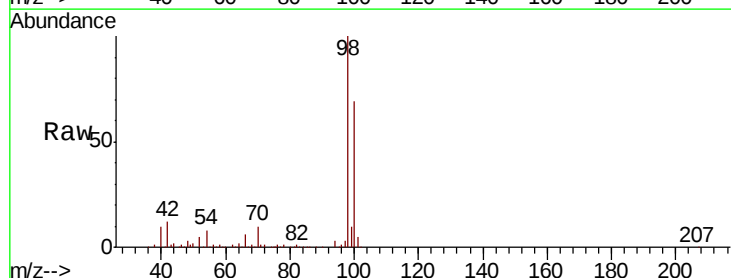
Instrument :
MSVOA_F
ClientSampleId :

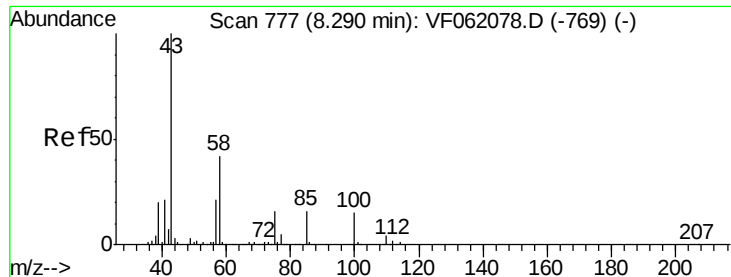
Tot Ion: 88 Resp: 5082
Ion Ratio Lower Upper
88 100
43 39.4 35.0 52.4
58 96.4 49.9 74.9#



#50
Toluene-d8
Concen: 53.825 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion: 98 Resp: 425663
Ion Ratio Lower Upper
98 100
100 69.1 57.0 85.6





#51

4-Methyl-2-Pentanone

Concen: 112.854 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

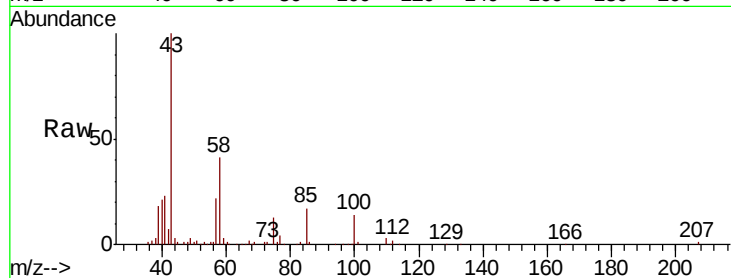
ClientSampleId :

Tot Ion: 43 Resp: 149134

Ion Ratio Lower Upper

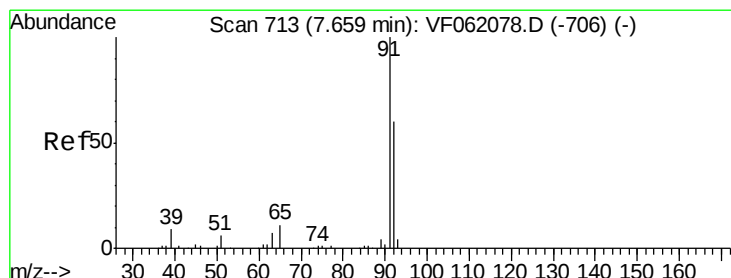
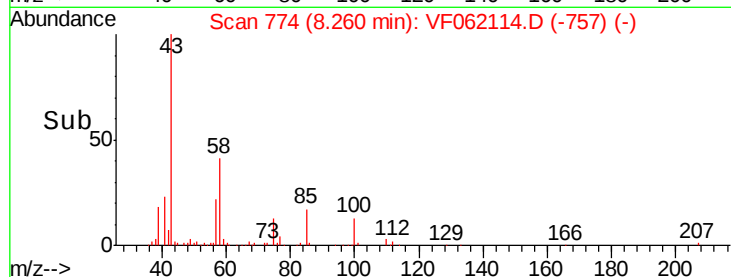
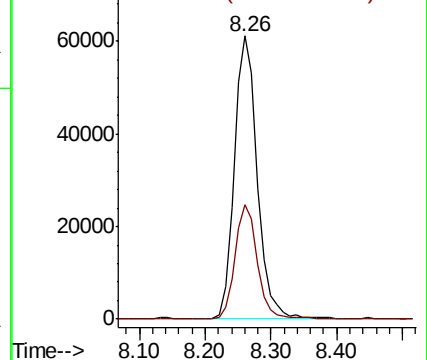
43 100

58 40.6 33.8 50.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.519 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF062114.D

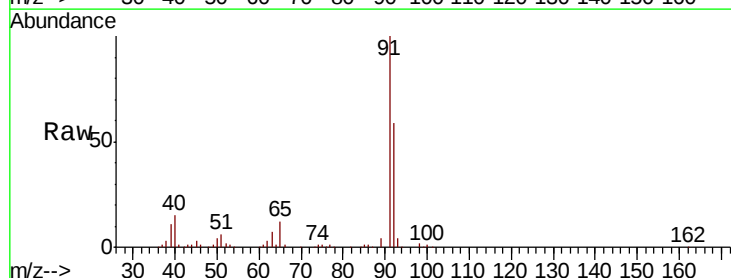
Acq: 23 Mar 2019 13:44

Tgt Ion: 92 Resp: 118856

Ion Ratio Lower Upper

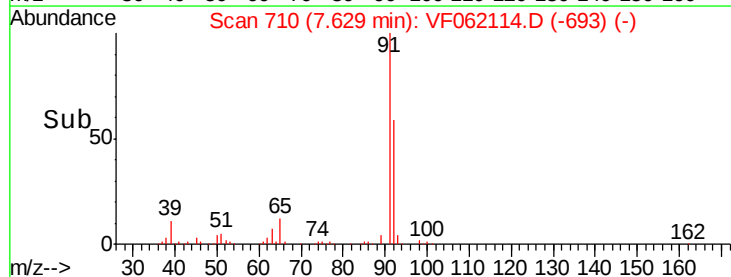
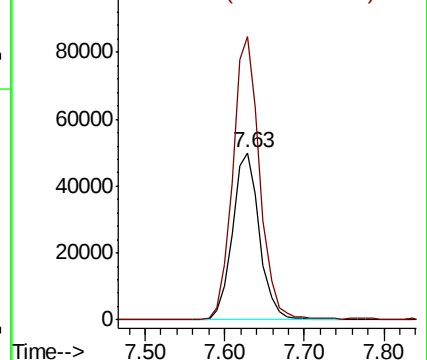
92 100

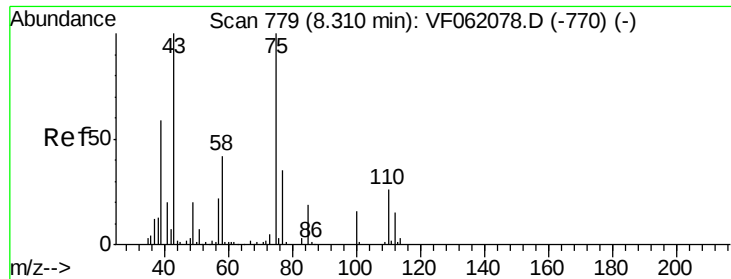
91 169.5 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.031 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

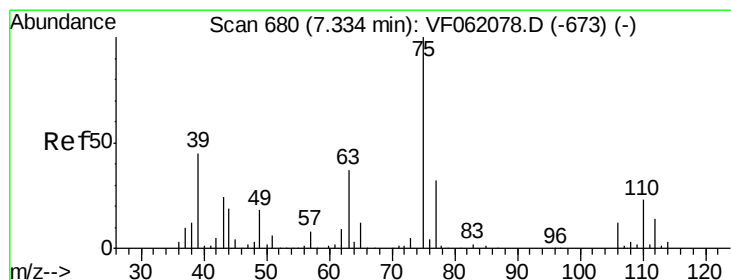
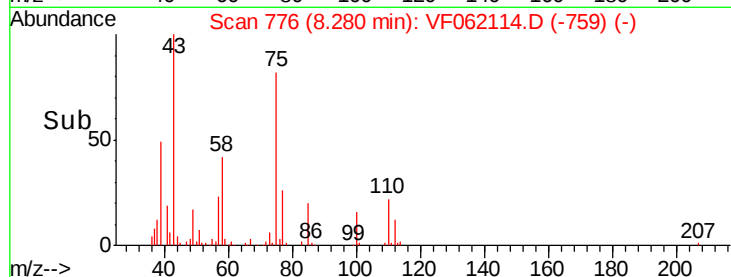
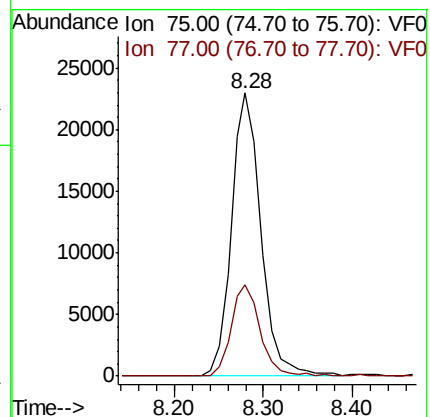
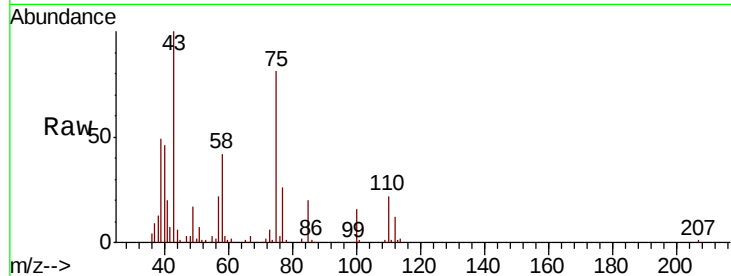
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 75 Resp: 53332

Ion Ratio Lower Upper

75 100

77 32.3 28.0 42.0



#54

cis-1,3-Dichloropropene

Concen: 21.481 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

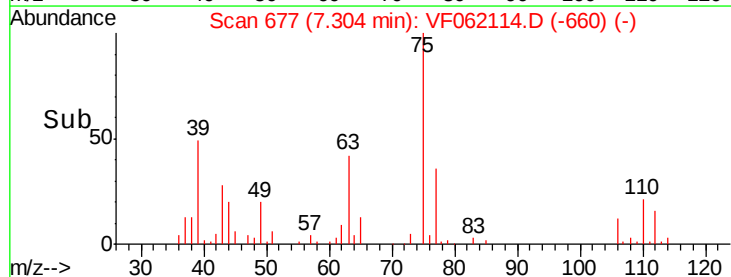
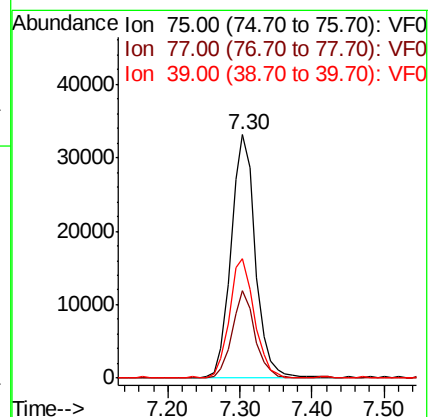
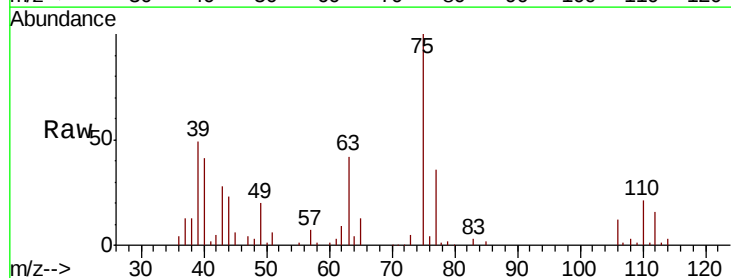
Tgt Ion: 75 Resp: 77942

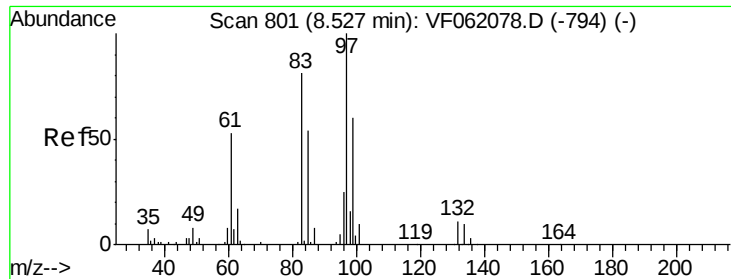
Ion Ratio Lower Upper

75 100

77 35.8 25.8 38.6

39 49.1 35.9 53.9

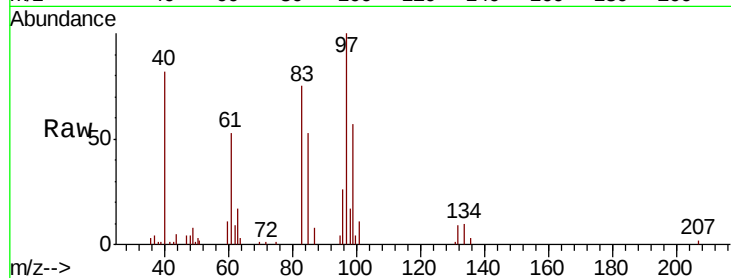




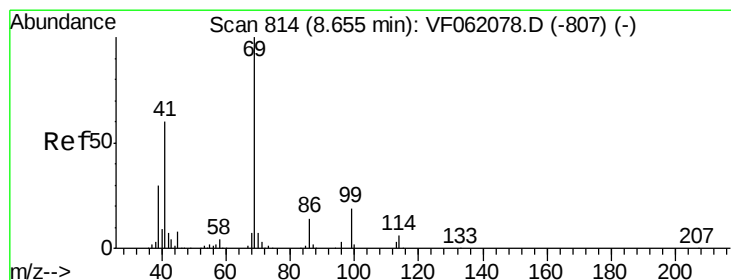
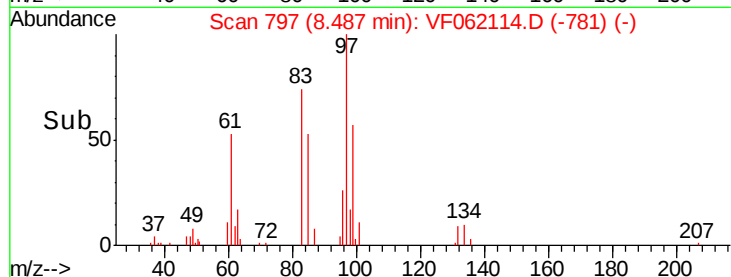
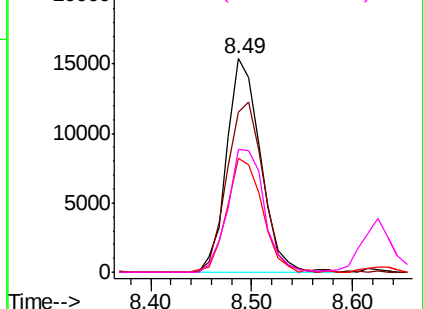
#55
1,1,2-Trichloroethane
Concen: 21.826 ug/l
RT: 8.49 min Scan# 797
Delta R.T. -0.04 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	97	Resp:	35911
Ion	Ratio	Lower	Upper
97	100		
83	74.8	64.6	97.0
85	53.4	43.6	65.4
99	57.4	48.2	72.2

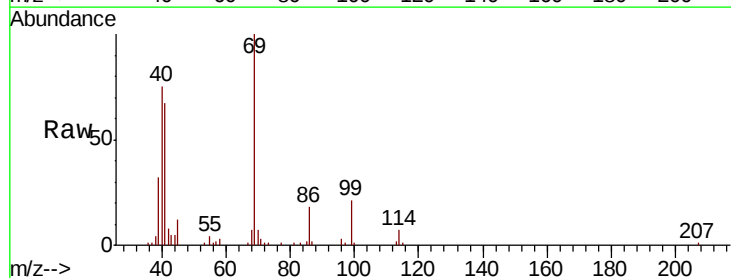


Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 82.95 (82.65 to 83.65): VF0
Ion 84.95 (84.65 to 85.65): VF0
Ion 98.95 (98.65 to 99.65): VF0

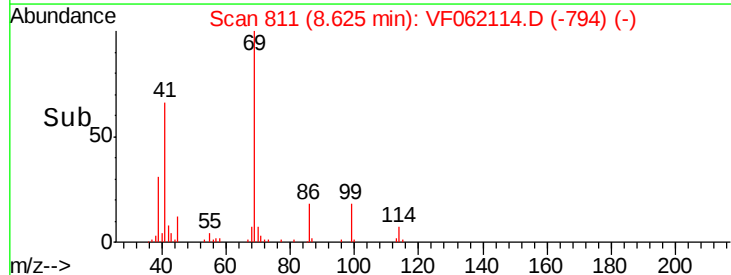
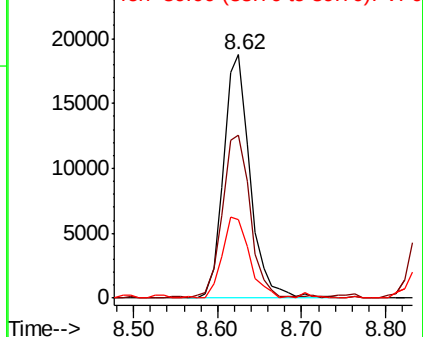


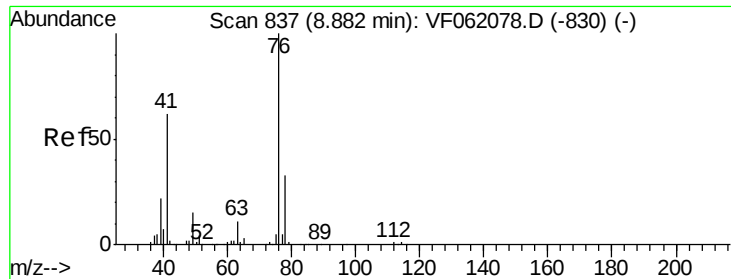
#56
Ethyl methacrylate
Concen: 20.929 ug/l
RT: 8.62 min Scan# 811
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion:	69	Resp:	41068
Ion	Ratio	Lower	Upper
69	100		
41	67.0	48.2	72.2
39	32.2	24.0	36.0



Abundance Ion 69.00 (68.70 to 69.70): VF0
Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.067 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

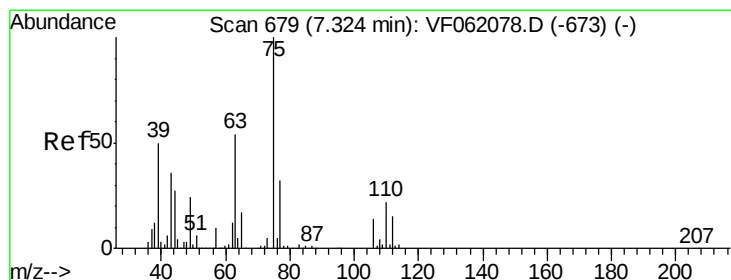
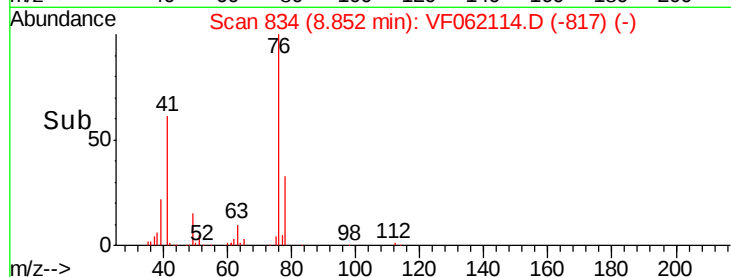
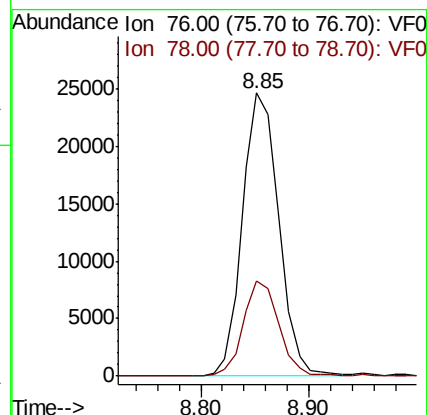
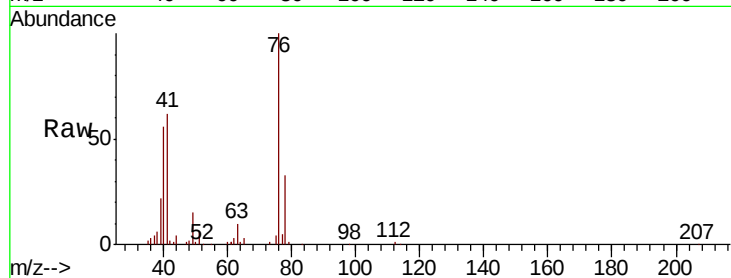
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 76 Resp: 57528

Ion Ratio Lower Upper

76 100

78 33.4 26.6 39.8



#58

2-Chloroethyl Vinyl ether

Concen: 112.077 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.03 min

Lab File: VF062114.D

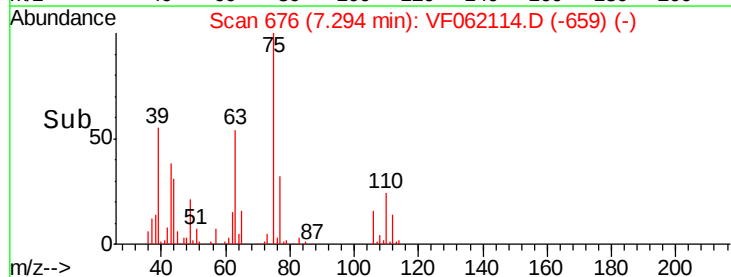
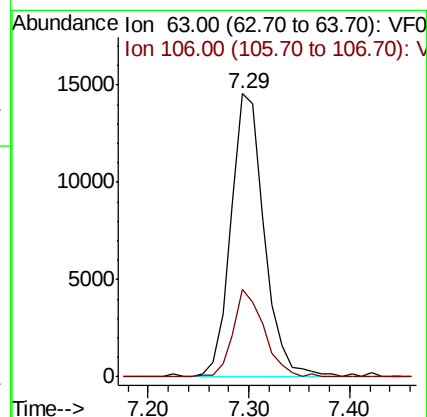
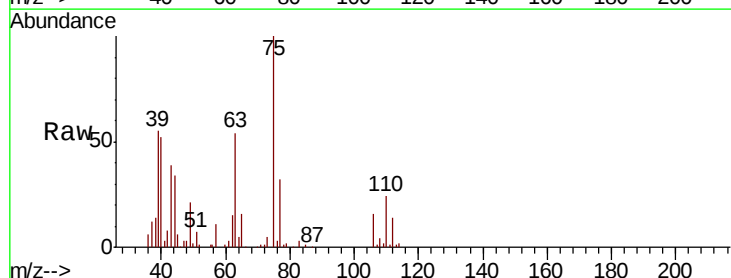
Acq: 23 Mar 2019 13:44

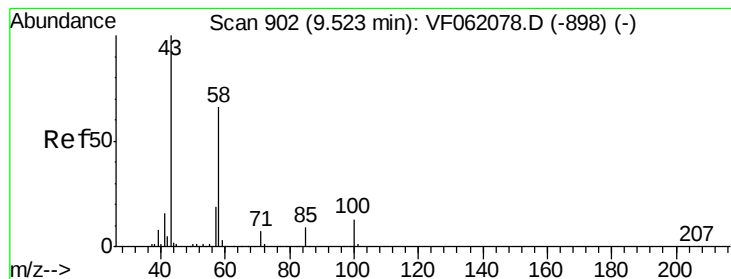
Tgt Ion: 63 Resp: 33371

Ion Ratio Lower Upper

63 100

106 30.7 21.5 32.3





#59

2-Hexanone

Concen: 115.507 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

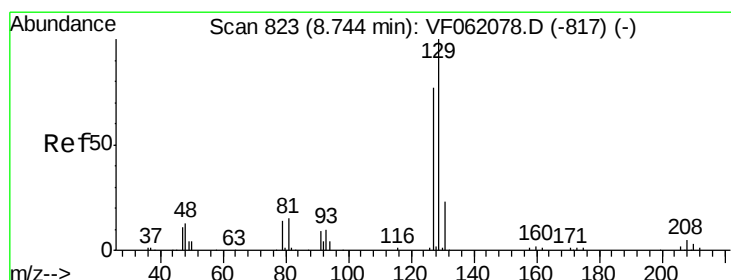
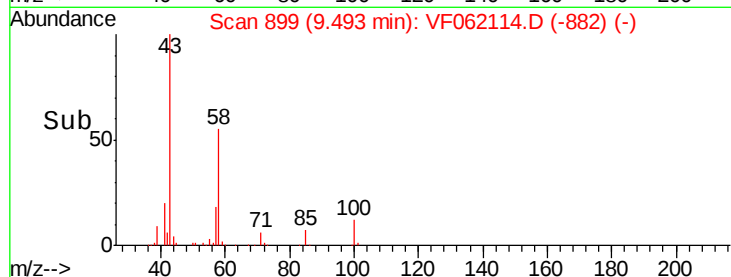
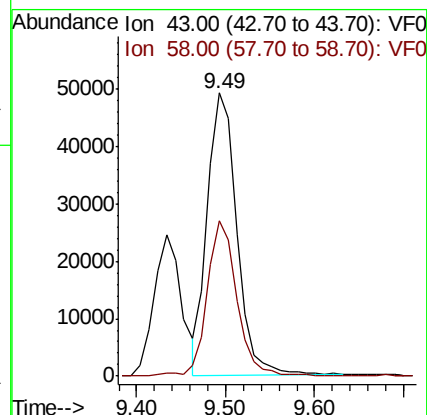
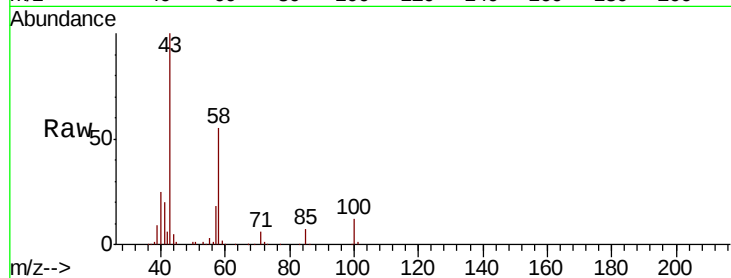
ClientSampled :

Tot Ion: 43 Resp: 111872

Ion Ratio Lower Upper

43 100

58 54.8 28.8 86.4



#60

Dibromochloromethane

Concen: 21.526 ug/l

RT: 8.71 min Scan# 820

Delta R.T. -0.03 min

Lab File: VF062114.D

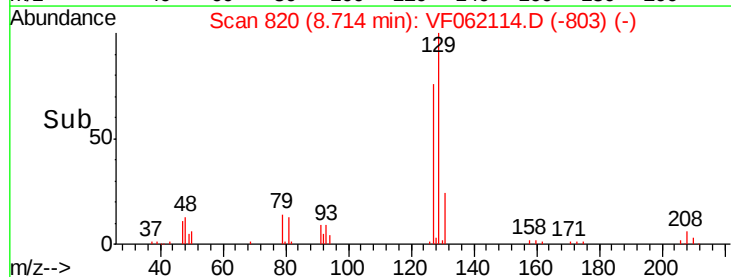
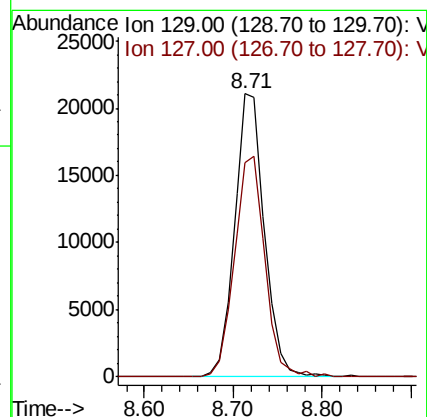
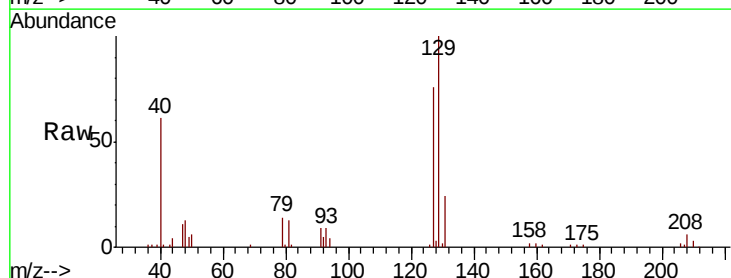
Acq: 23 Mar 2019 13:44

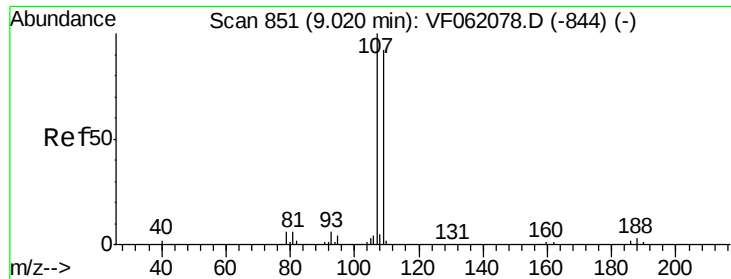
Tgt Ion: 129 Resp: 49236

Ion Ratio Lower Upper

129 100

127 75.6 38.7 116.1





#61

1,2-Dibromoethane

Concen: 21.674 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

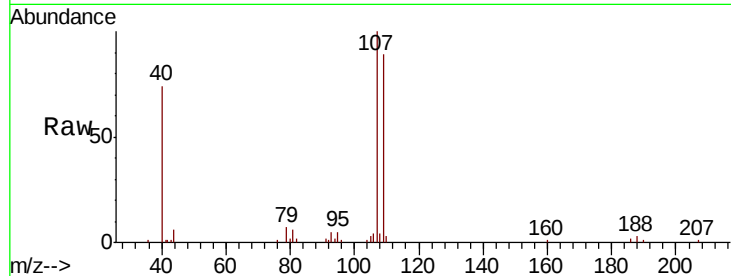
ClientSampleId :

Tot Ion:107 Resp: 38045

Ion Ratio Lower Upper

107 100

109 89.2 73.4 110.0



Abundance Ion 107.00 (106.70 to 107.70): V

20000 Ion 109.00 (108.70 to 109.70): V

15000

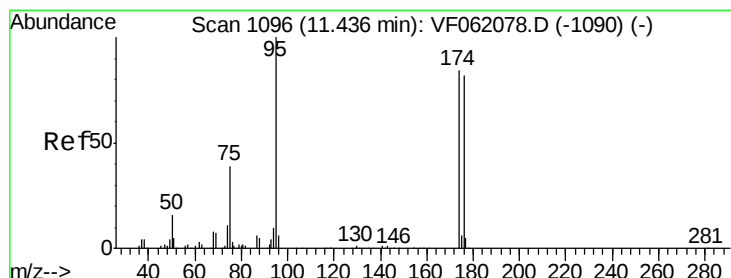
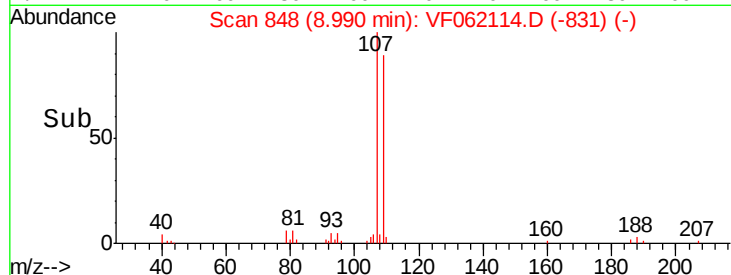
10000

5000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 54.688 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

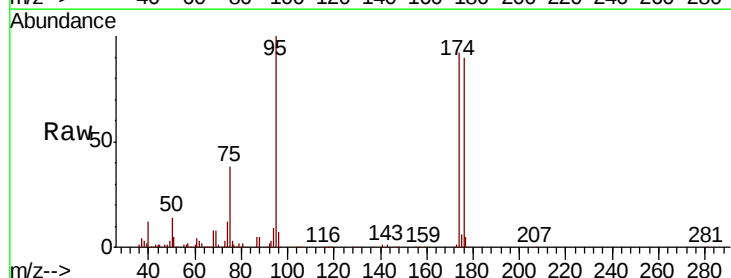
Tgt Ion: 95 Resp: 166967

Ion Ratio Lower Upper

95 100

174 92.0 0.0 168.2

176 89.9 0.0 164.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

120000 Ion 174.00 (173.70 to 174.70): V

100000 Ion 176.00 (175.70 to 176.70): V

80000

60000

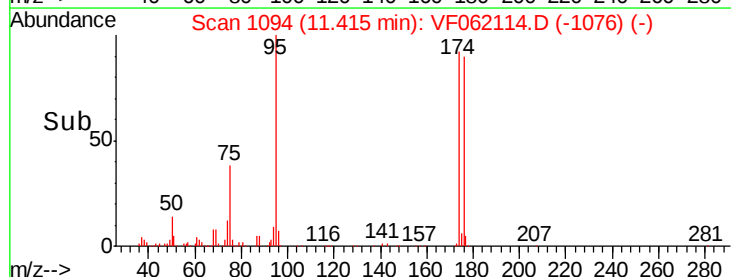
40000

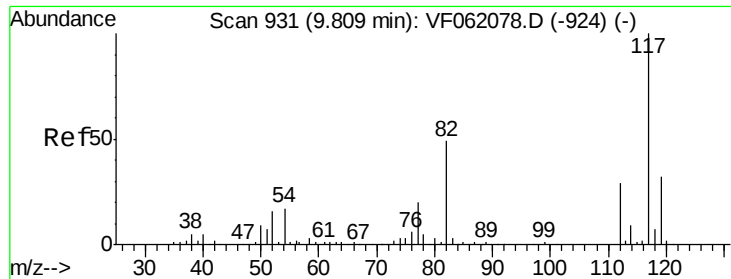
20000

0

11.30 11.40 11.50

Time-->

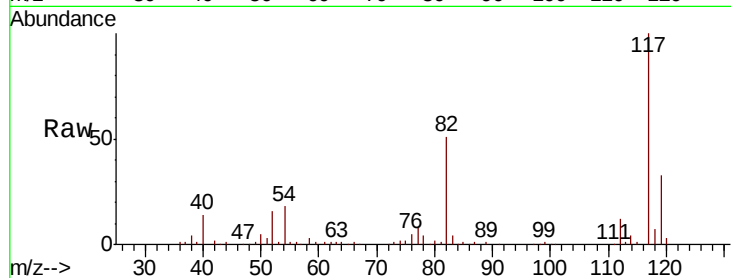




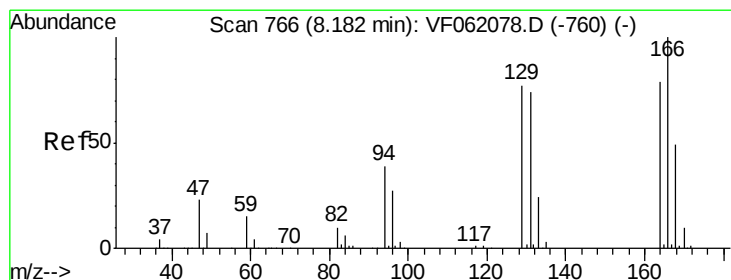
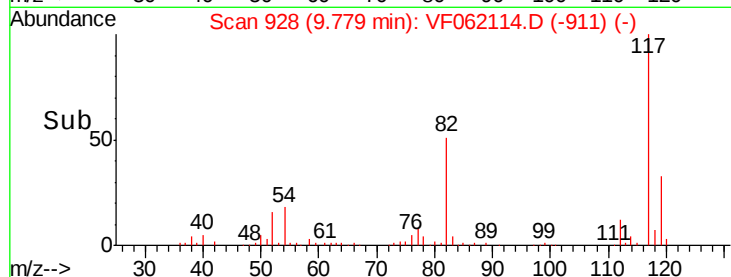
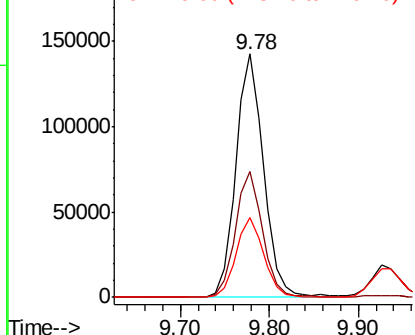
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 309821
Ion Ratio Lower Upper
117 100
82 51.5 39.2 58.8
119 32.9 25.4 38.2

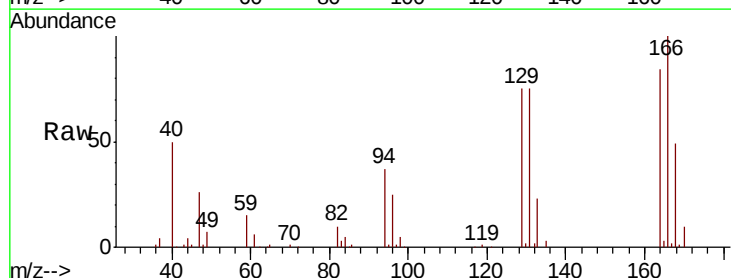


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

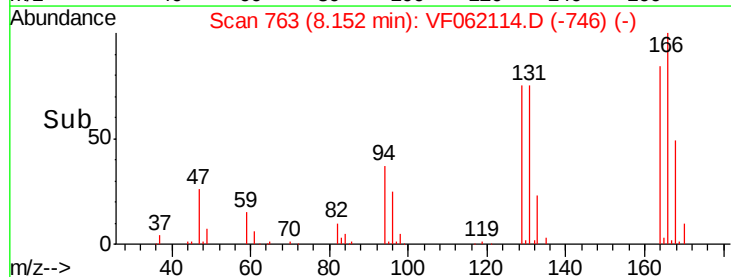
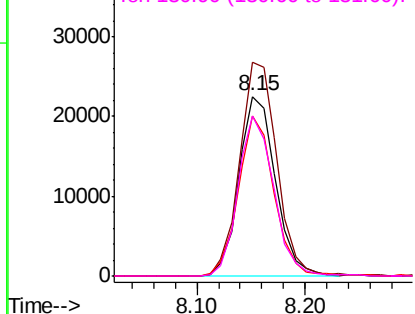


#64
Tetrachloroethene
Concen: 21.929 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion:164 Resp: 52489
Ion Ratio Lower Upper
164 100
166 119.1 100.9 151.3
129 89.3 77.9 116.9
131 89.5 74.6 112.0



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 21.957 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

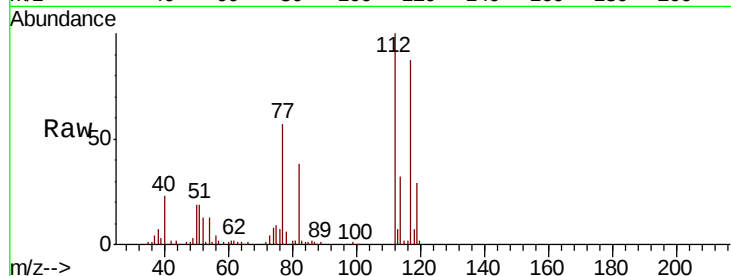
ClientSampleId :

Tot Ion:112 Resp: 127282

Ion Ratio Lower Upper

112 100

114 32.2 26.0 39.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

60000

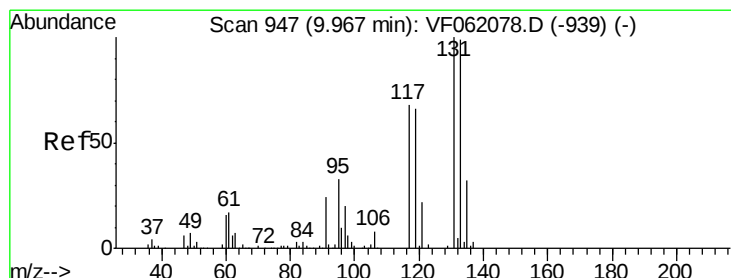
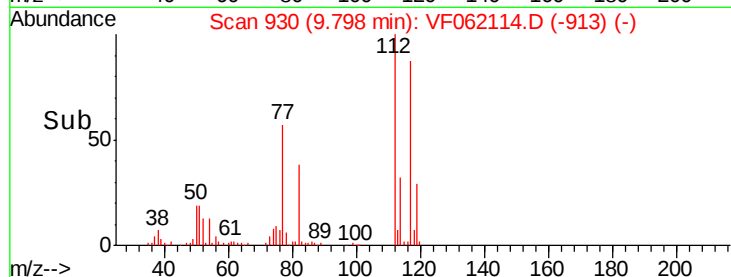
40000

20000

0

9.70 9.80 9.90

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 23.917 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

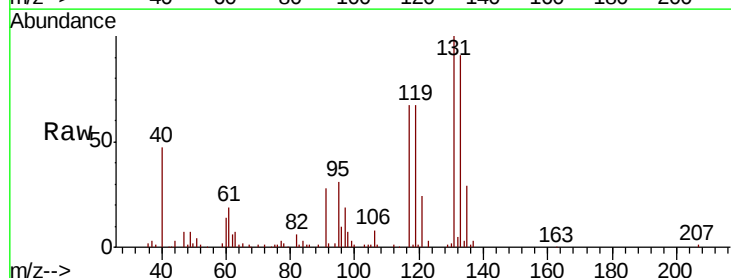
Tgt Ion:131 Resp: 55691

Ion Ratio Lower Upper

131 100

133 90.9 49.3 147.8

119 67.0 33.5 100.4



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

60000

50000

40000

30000

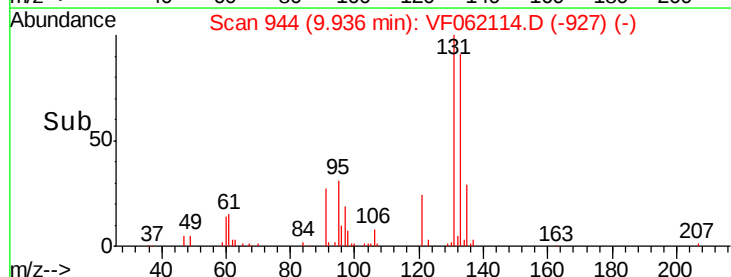
20000

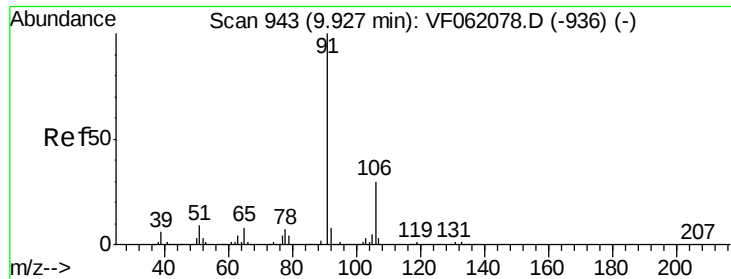
10000

0

9.80 9.90 10.00 10.10

Time-->

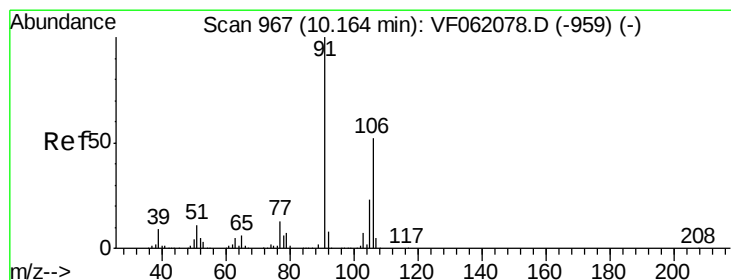
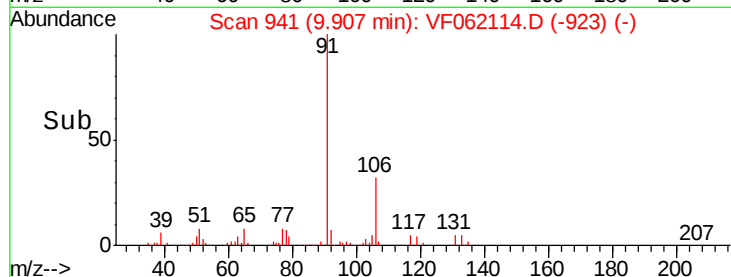
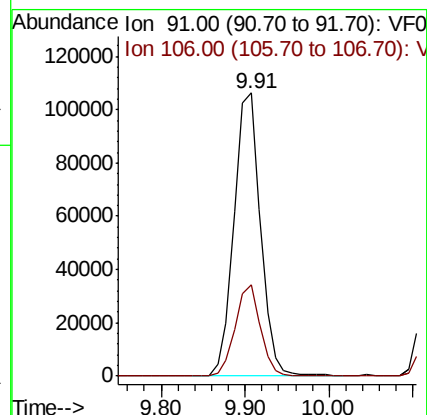
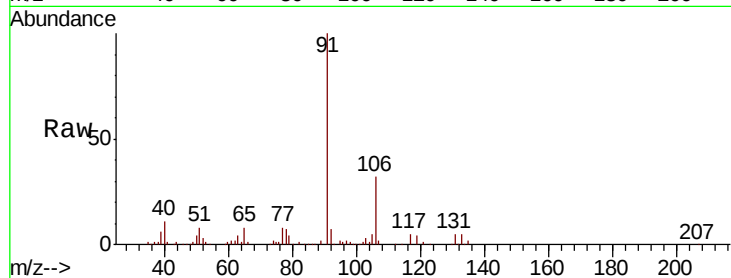




#67
Ethyl Benzene
Concen: 23.190 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

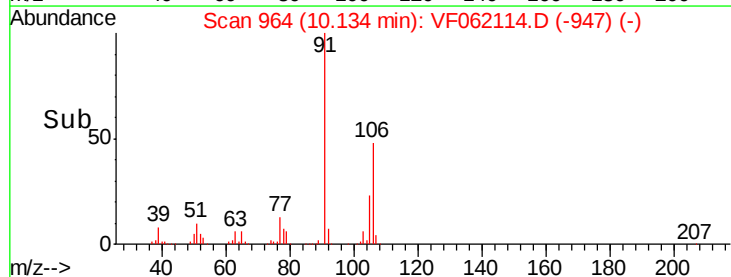
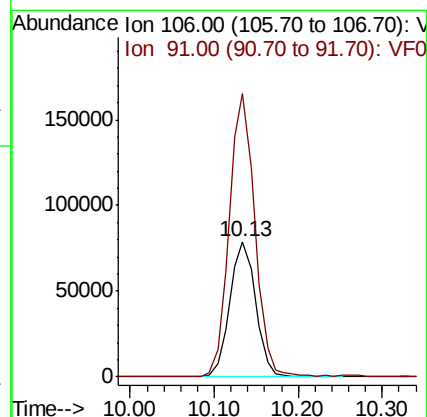
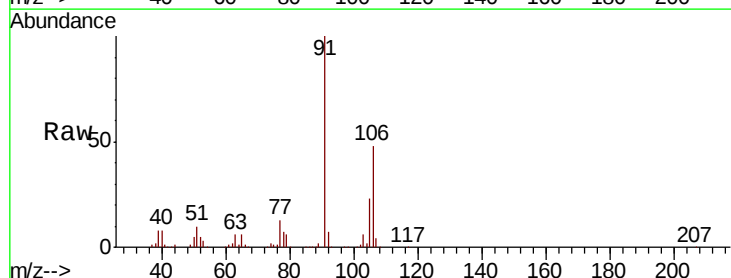
Instrument :
MSVOA_F
ClientSampleId :

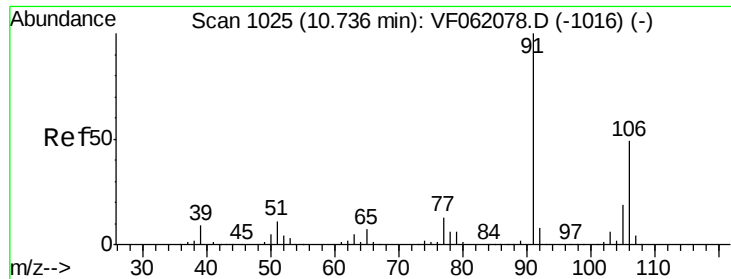
Tot Ion: 91 Resp: 233788
Ion Ratio Lower Upper
91 100
106 32.1 24.0 36.0



#68
m/p-Xylenes
Concen: 45.006 ug/l
RT: 10.13 min Scan# 964
Delta R.T. -0.03 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion: 106 Resp: 169584
Ion Ratio Lower Upper
106 100
91 208.9 154.4 231.6

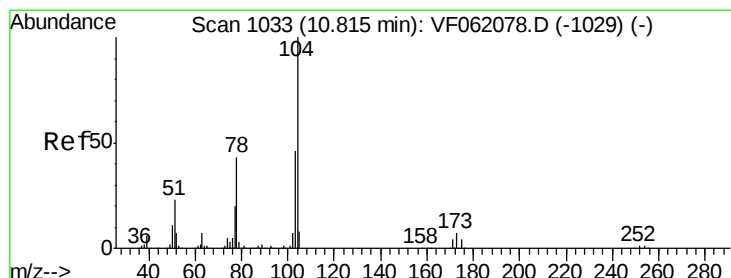
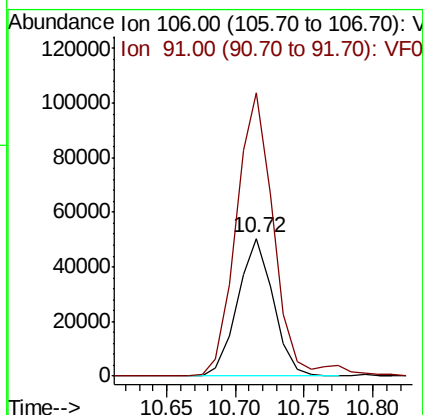
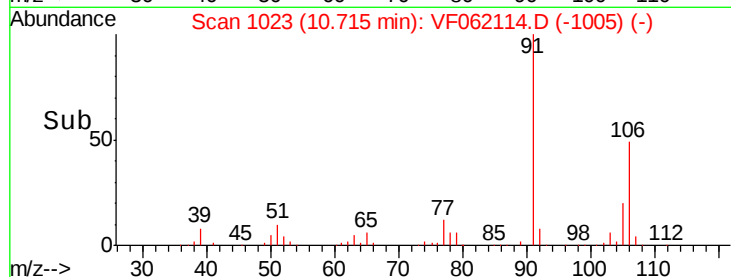
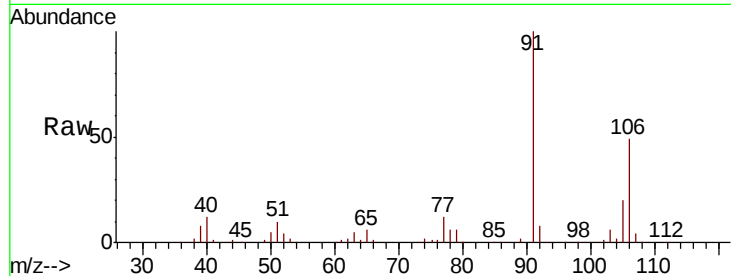




#69
o-Xylene
Concen: 23.061 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

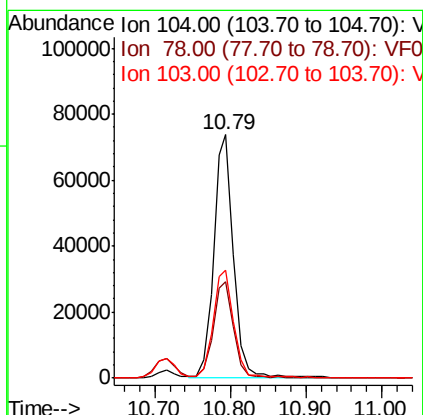
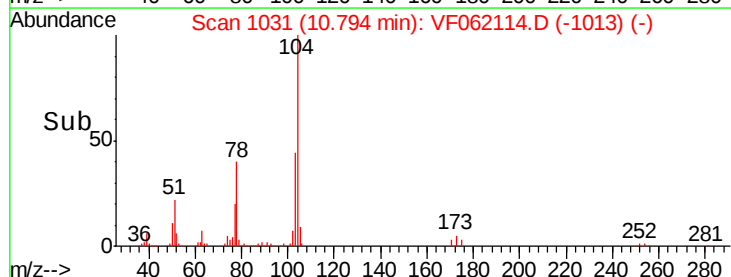
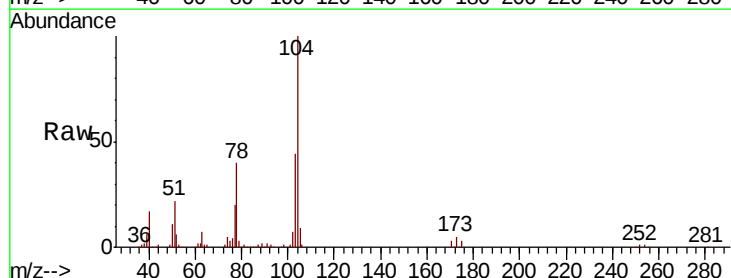
Instrument :
MSVOA_F
ClientSampled :

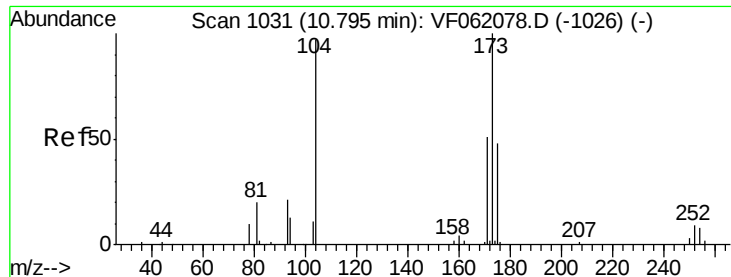
Tot Ion:106 Resp: 91011
Ion Ratio Lower Upper
106 100
91 205.5 102.6 307.8



#70
Styrene
Concen: 22.583 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion:104 Resp: 135033
Ion Ratio Lower Upper
104 100
78 39.6 34.3 51.5
103 44.1 36.9 55.3





#71

Bromoform

Concen: 23.245 ug/l

RT: 10.77 min Scan# 1029

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

ClientSampleId :

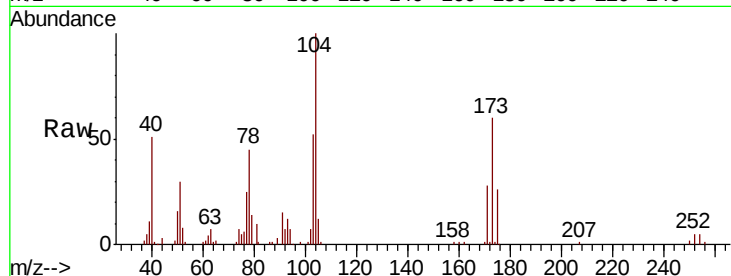
Tot Ion:173 Resp: 27686

Ion Ratio Lower Upper

173 100

175 43.2 24.1 72.4

254 8.5 6.2 9.4

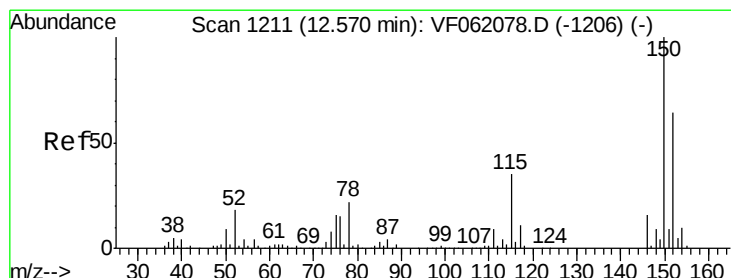
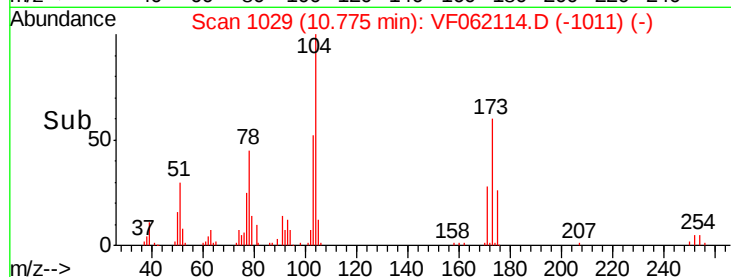
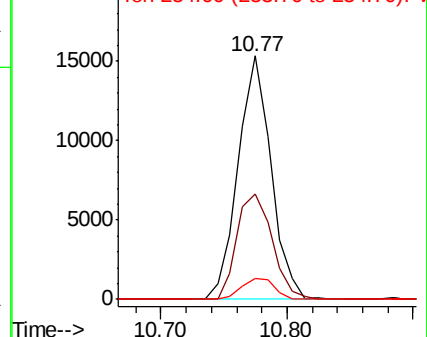


Abundance

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: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

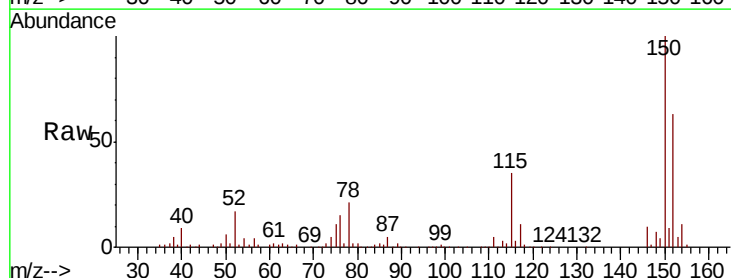
Tgt Ion:152 Resp: 169652

Ion Ratio Lower Upper

152 100

115 55.4 27.7 83.1

150 158.7 0.0 313.2

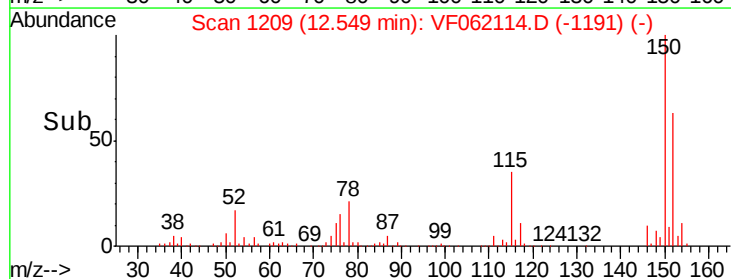
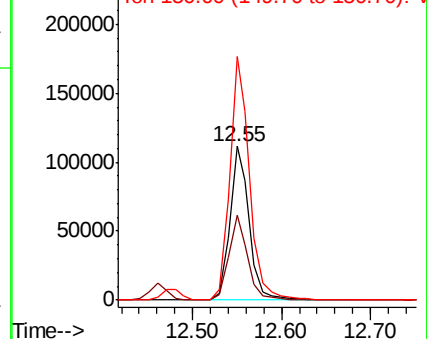


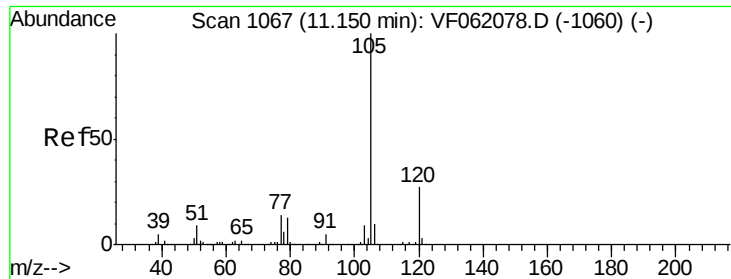
Abundance

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: 21.876 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

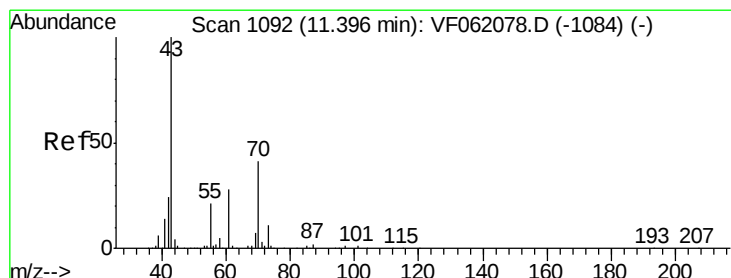
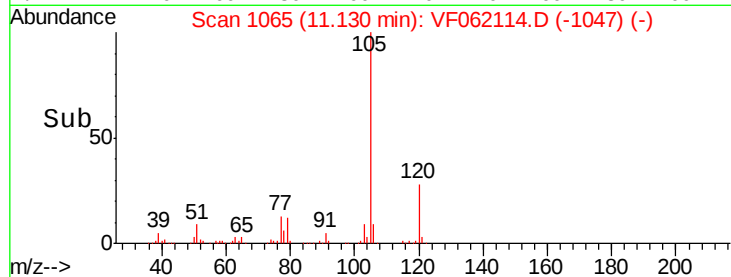
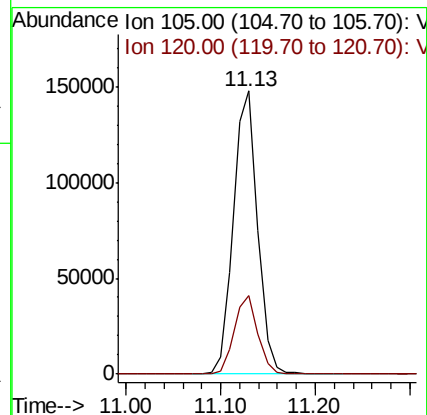
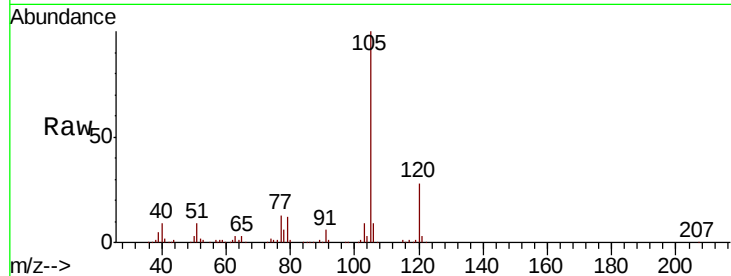
ClientSampleId :

Tot Ion:105 Resp: 261151

Ion Ratio Lower Upper

105 100

120 27.8 13.8 41.3



#74

N-ethyl acetate

Concen: 23.497 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Tgt Ion: 43 Resp: 66836

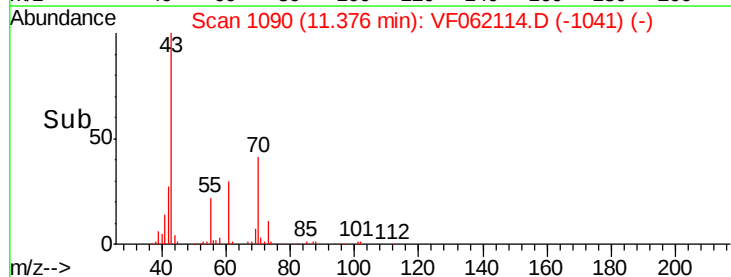
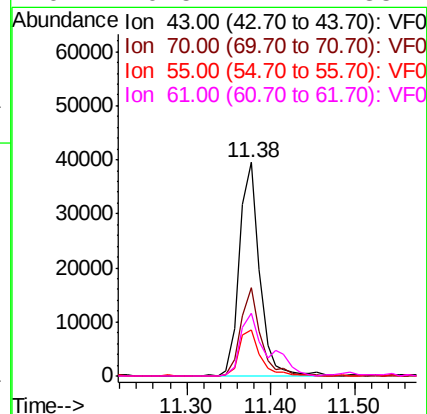
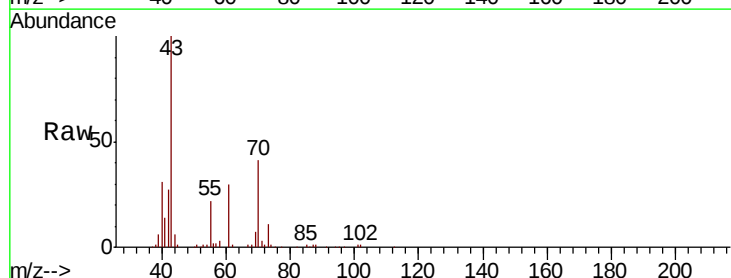
Ion Ratio Lower Upper

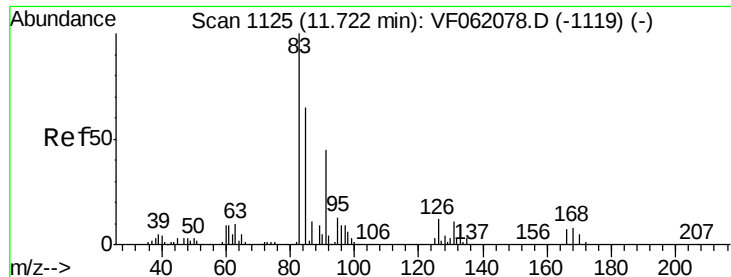
43 100

70 41.5 32.9 49.3

55 21.6 17.1 25.7

61 29.5 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 24.141 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

ClientSampleId :

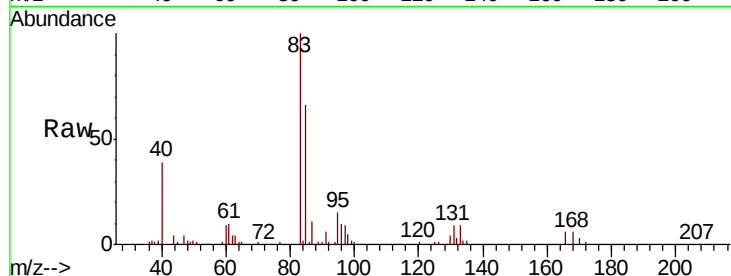
Tot Ion: 83 Resp: 49483

Ion Ratio Lower Upper

83 100

131 9.1 5.3 15.8

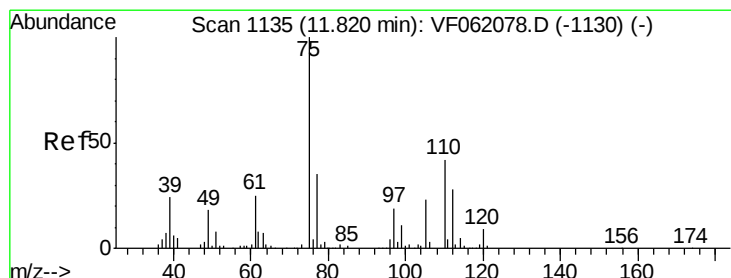
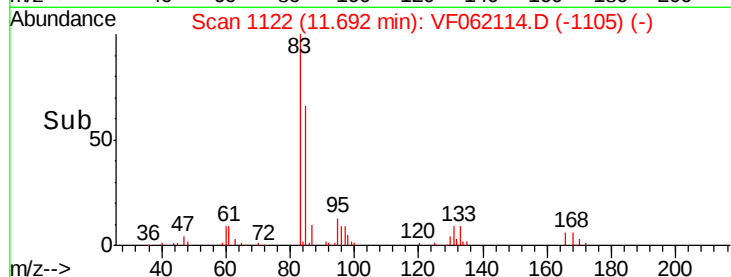
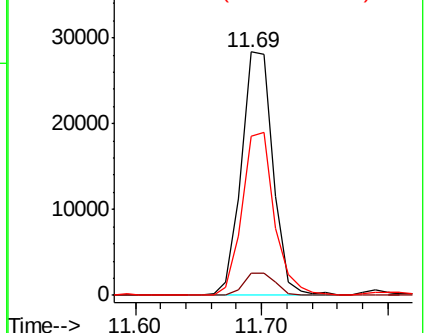
85 65.5 32.6 98.0



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 21.928 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF062114.D

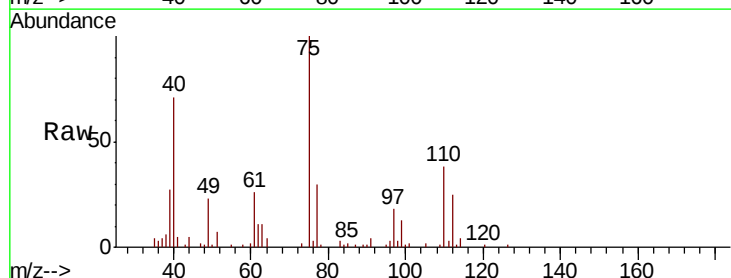
Acq: 23 Mar 2019 13:44

Tgt Ion: 75 Resp: 31632

Ion Ratio Lower Upper

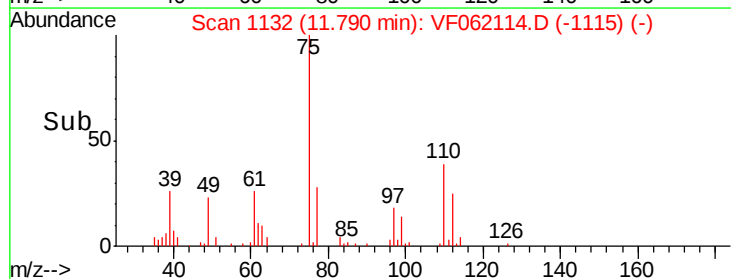
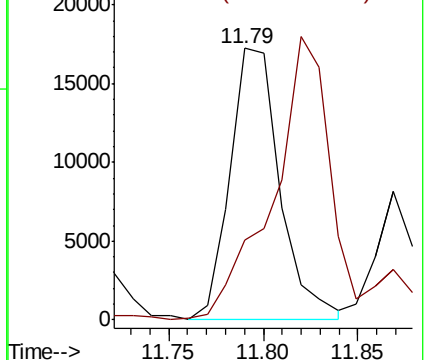
75 100

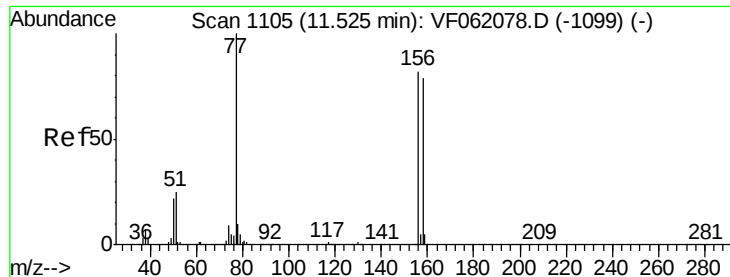
77 29.6 17.8 53.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.438 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

ClientSampleId :

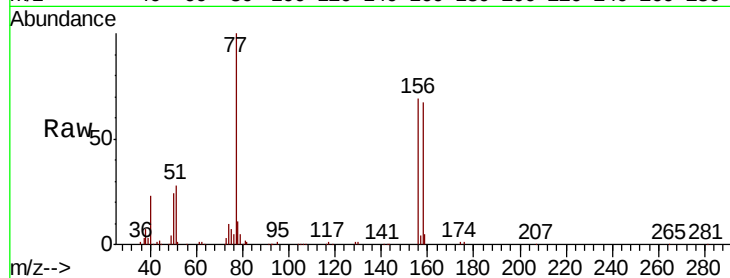
Tot Ion:156 Resp: 62527

Ion Ratio Lower Upper

156 100

77 144.0 61.3 183.9

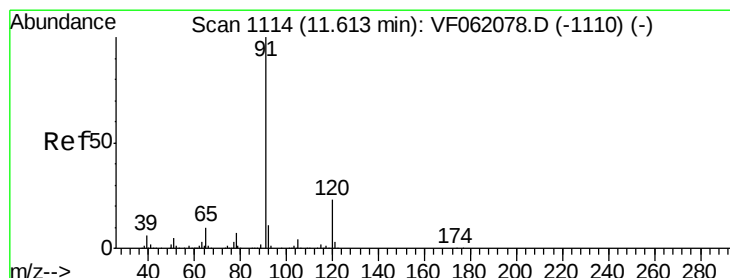
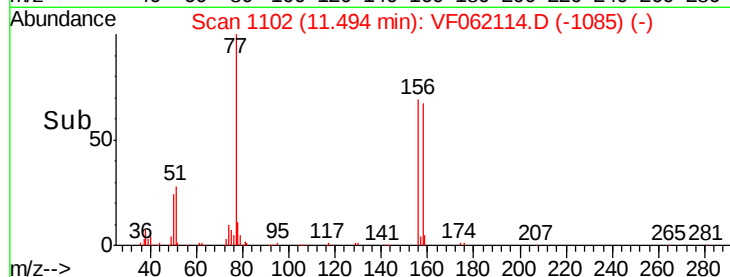
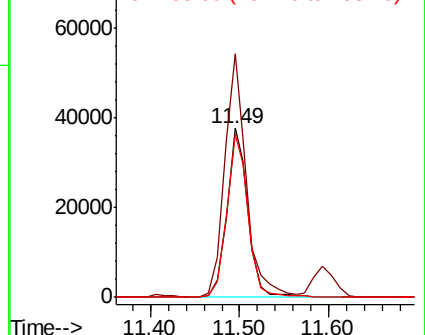
158 96.6 48.6 145.9



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: 21.957 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062114.D

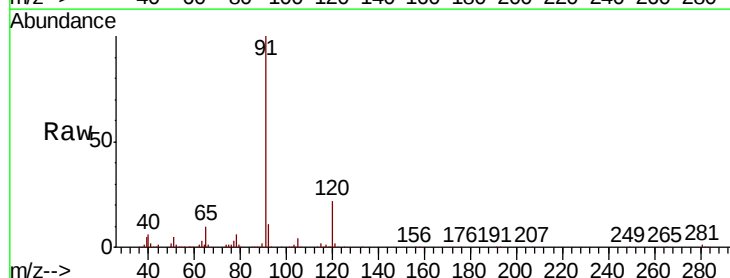
Acq: 23 Mar 2019 13:44

Tgt Ion: 91 Resp: 304368

Ion Ratio Lower Upper

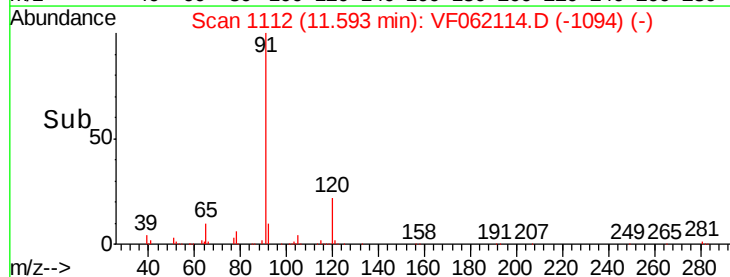
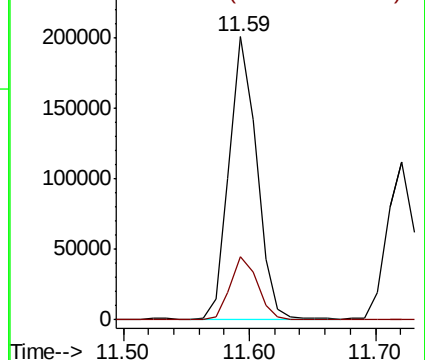
91 100

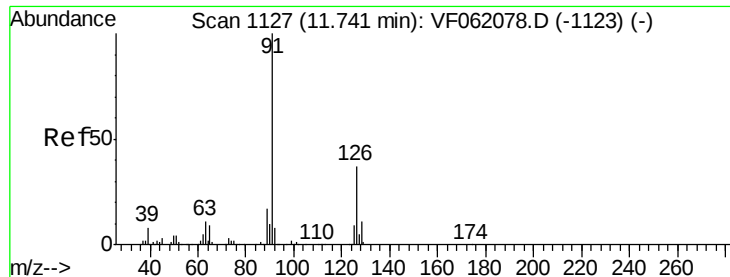
120 22.1 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.396 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

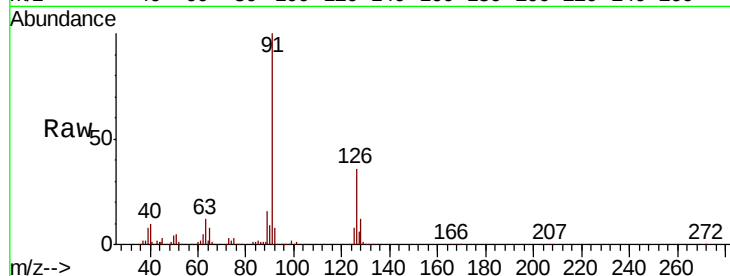
ClientSampleId :

Tot Ion: 91 Resp: 172559

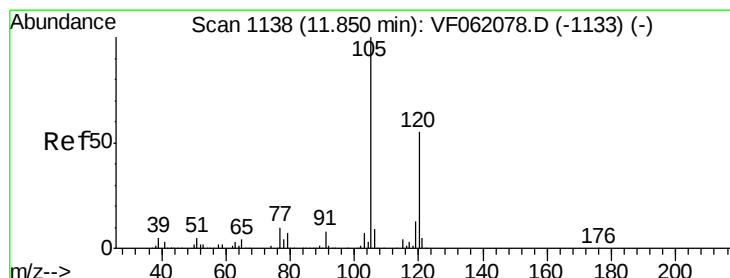
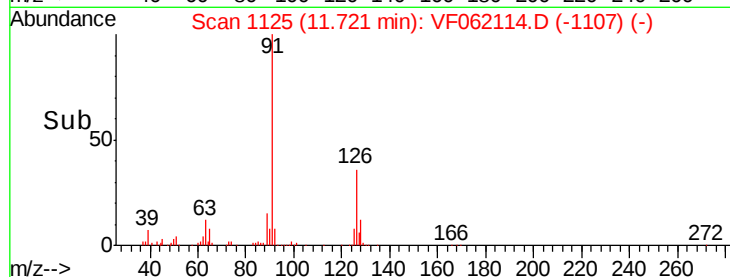
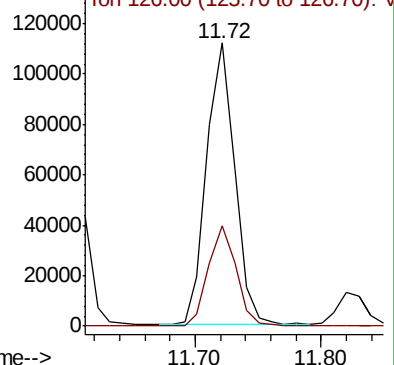
Ion Ratio Lower Upper

91 100

126 35.7 18.3 54.8



Abundance Ion 91.00 (90.70 to 91.70): VF062114.D (-1107) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.592 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF062114.D

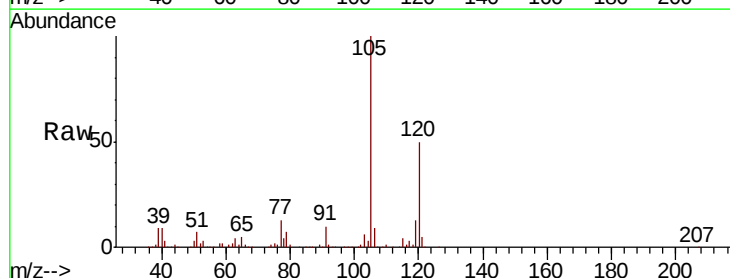
Acq: 23 Mar 2019 13:44

Tgt Ion:105 Resp: 221836

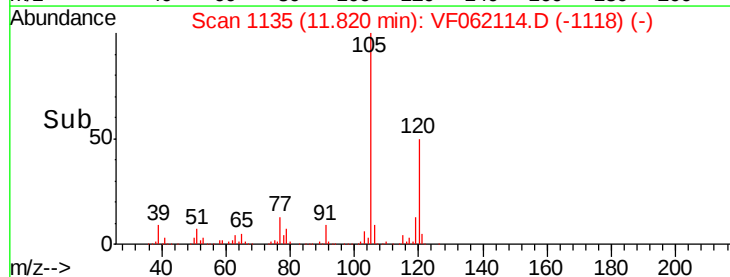
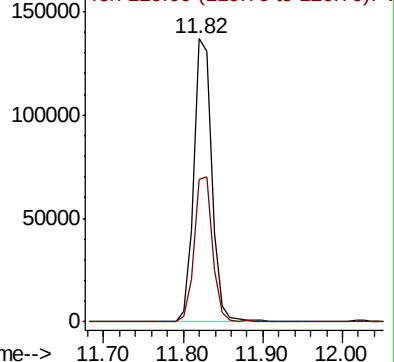
Ion Ratio Lower Upper

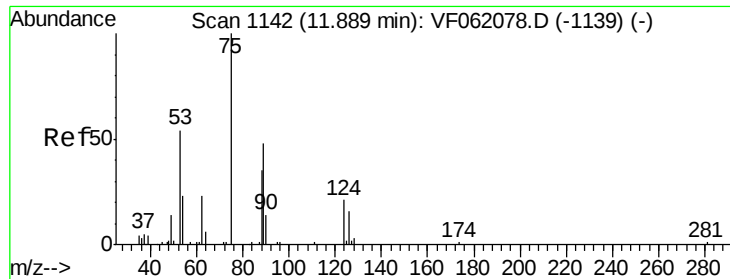
105 100

120 50.4 27.8 83.3



Abundance Ion 105.00 (104.70 to 105.70): VF062114.D (-1118) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 27.377 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

ClientSampled :

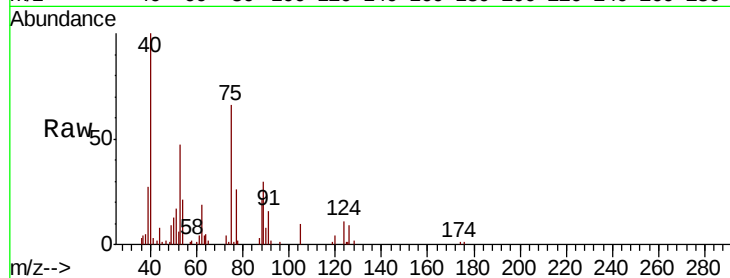
Tot Ion: 75 Resp: 16092

Ion Ratio Lower Upper

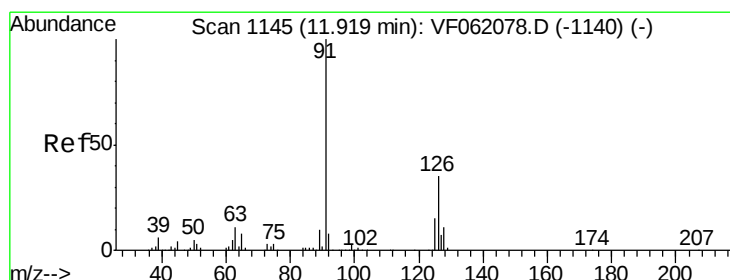
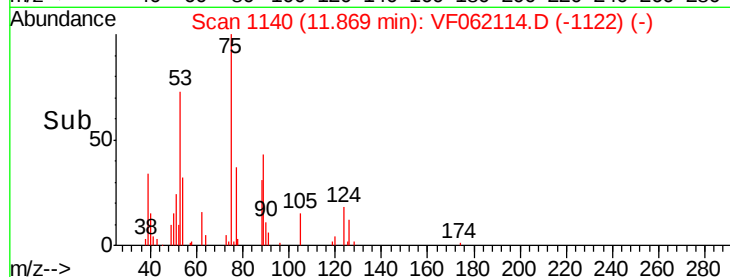
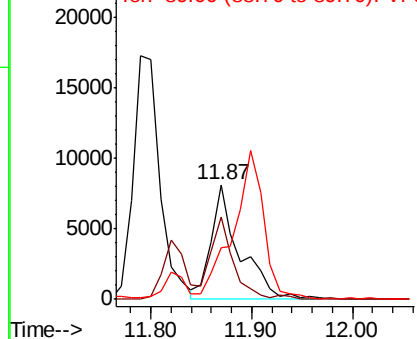
75 100

53 71.7 49.4 74.0

89 45.4 40.6 60.8



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 21.194 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.02 min

Lab File: VF062114.D

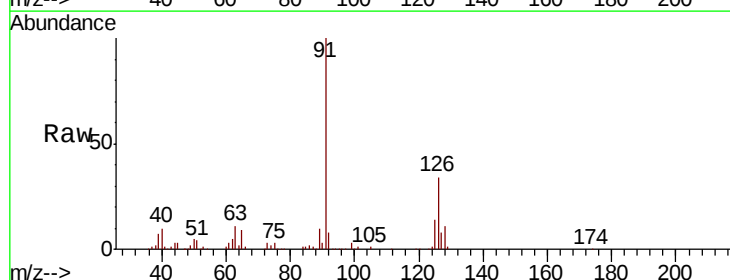
Acq: 23 Mar 2019 13:44

Tgt Ion: 91 Resp: 167434

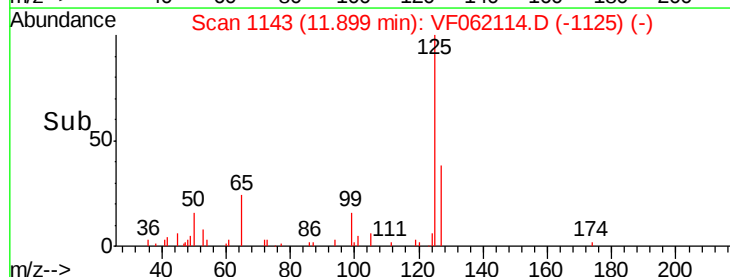
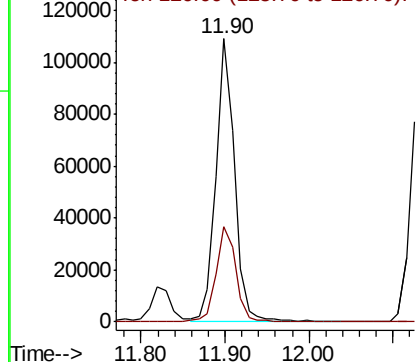
Ion Ratio Lower Upper

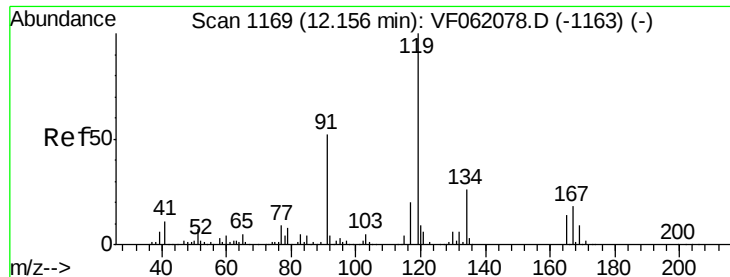
91 100

126 33.6 17.2 51.6



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V

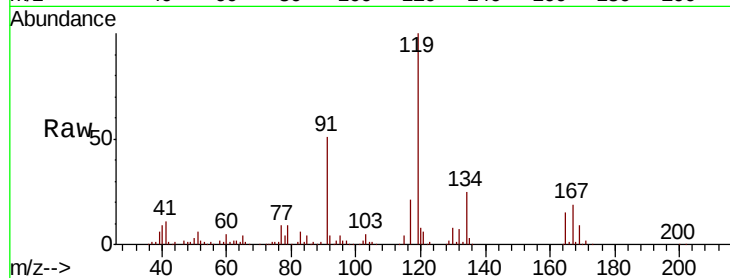




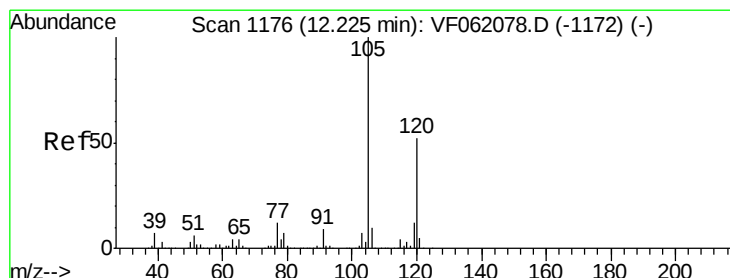
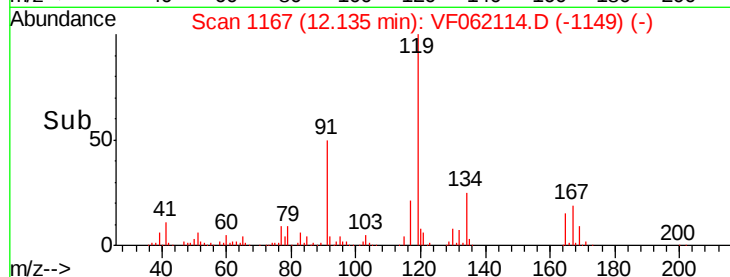
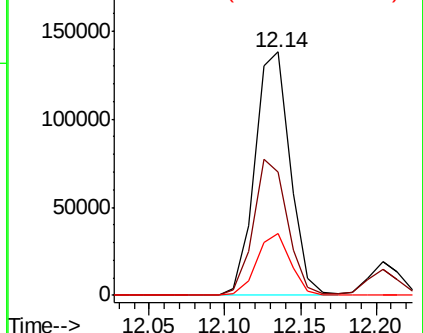
#83
tert-Butylbenzene
Concen: 21.990 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:119 Resp: 226034
Ion Ratio Lower Upper
119 100
91 50.7 26.1 78.2
134 25.2 12.8 38.4

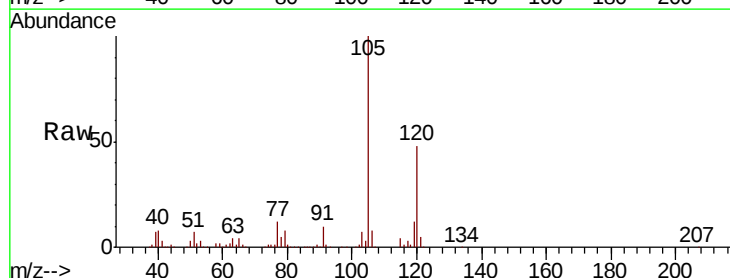


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

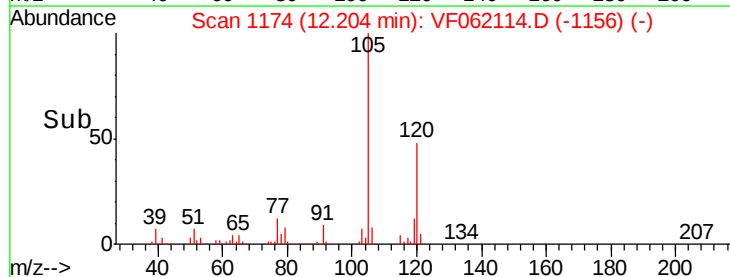
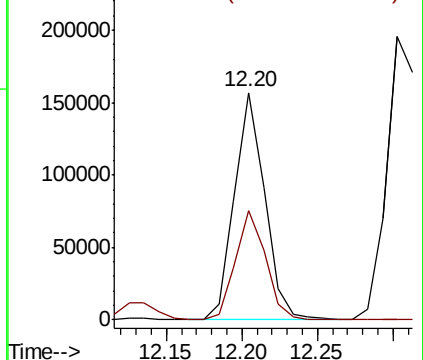


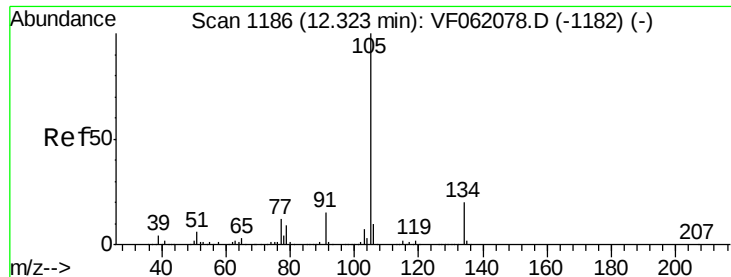
#84
1,2,4-Trimethylbenzene
Concen: 22.742 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.02 min
Lab File: VF062114.D
Acq: 23 Mar 2019 13:44

Tgt Ion:105 Resp: 218911
Ion Ratio Lower Upper
105 100
120 48.3 26.1 78.2



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 22.505 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

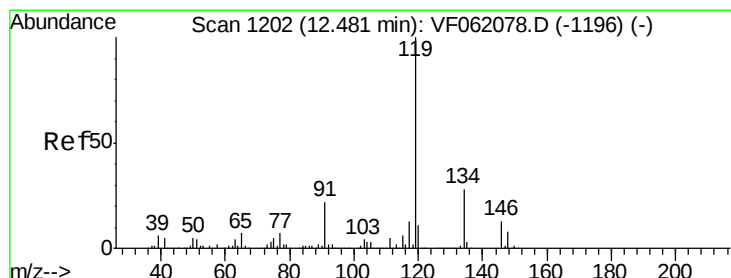
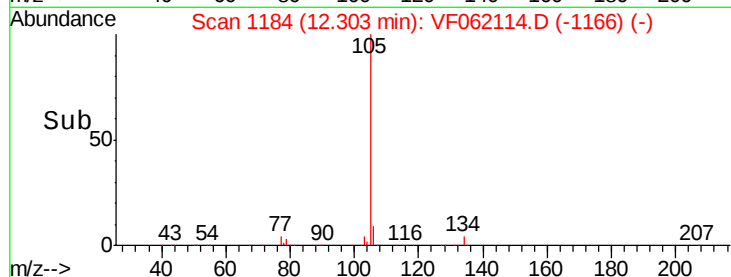
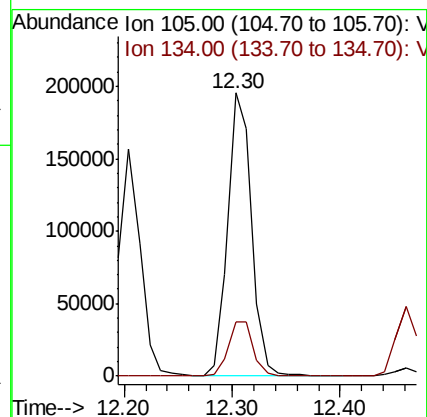
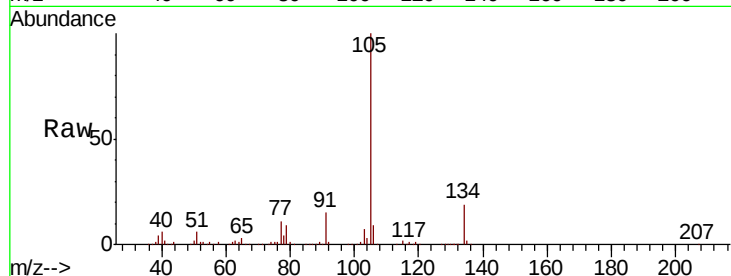
ClientSampleId :

Tot Ion:105 Resp: 299259

Ion Ratio Lower Upper

105 100

134 19.0 10.2 30.4



#86

p-Isopropyltoluene

Concen: 22.274 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

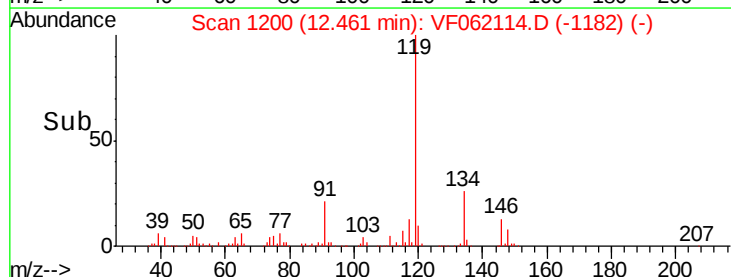
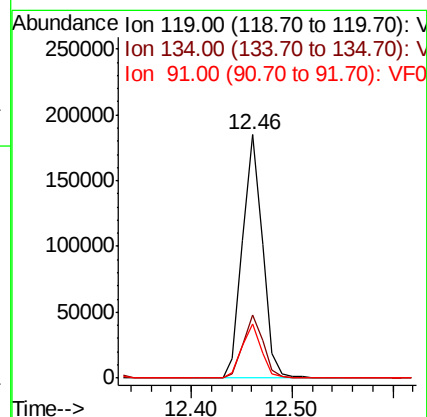
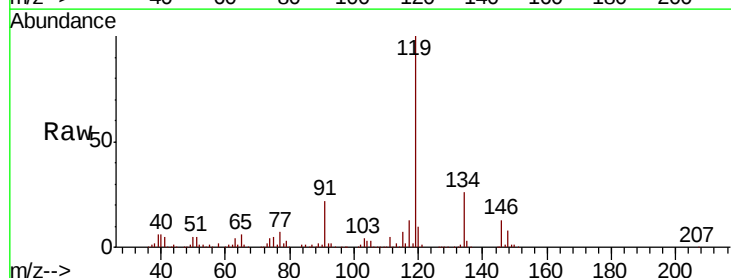
Tgt Ion:119 Resp: 256614

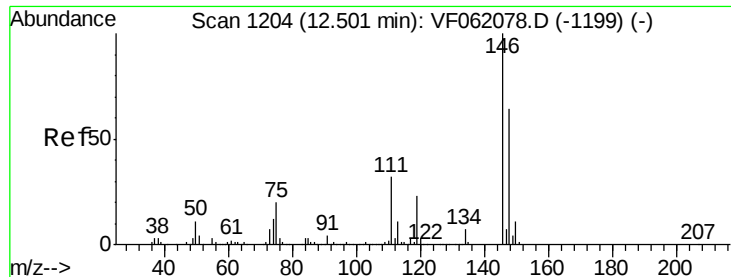
Ion Ratio Lower Upper

119 100

134 26.0 14.0 42.0

91 22.1 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 23.135 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.03 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

ClientSampleId :

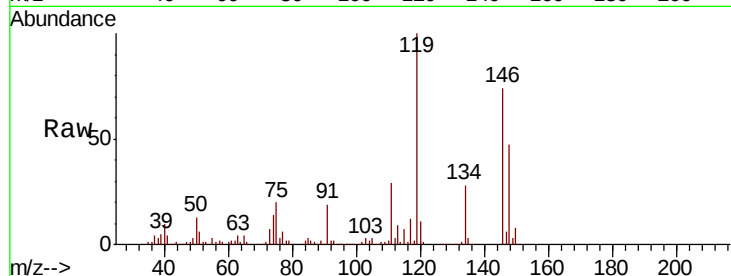
Tot Ion:146 Resp: 125363

Ion Ratio Lower Upper

146 100

111 38.9 16.1 48.3

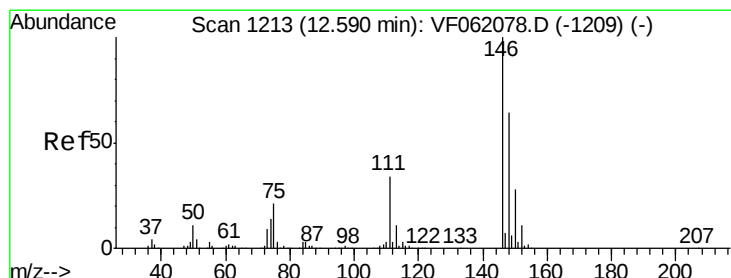
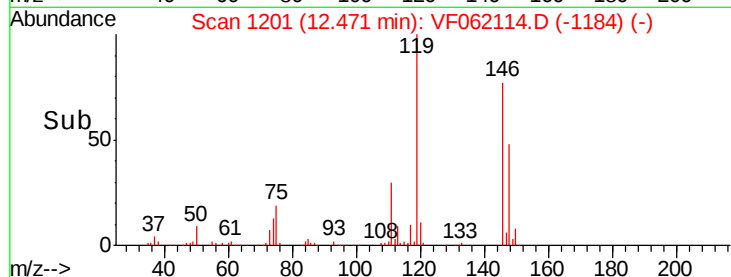
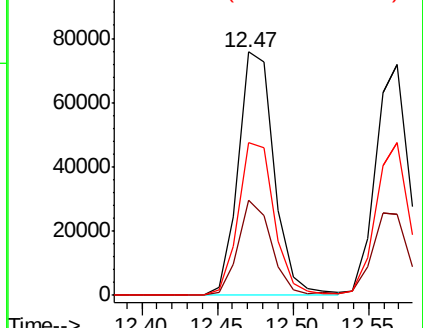
148 63.0 31.9 95.7



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



#88

1,4-Dichlorobenzene

Concen: 21.814 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

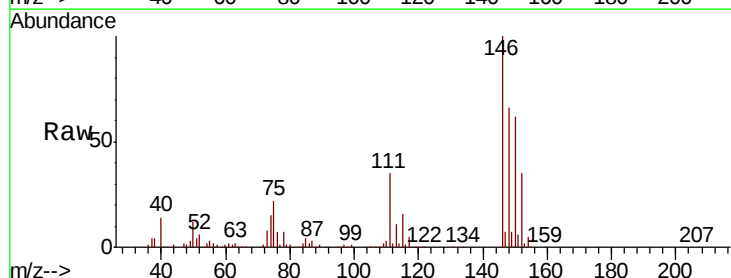
Tgt Ion:146 Resp: 115343

Ion Ratio Lower Upper

146 100

111 35.3 16.9 50.6

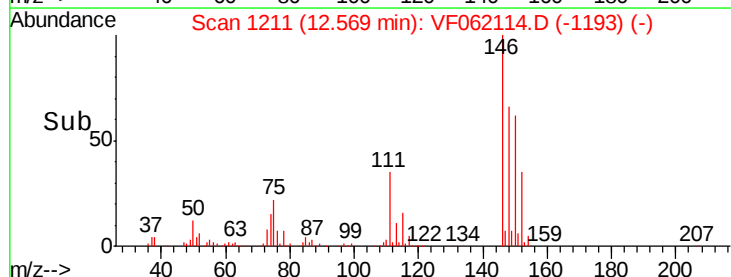
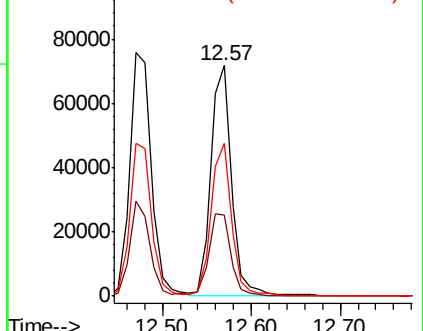
148 66.4 31.9 95.7

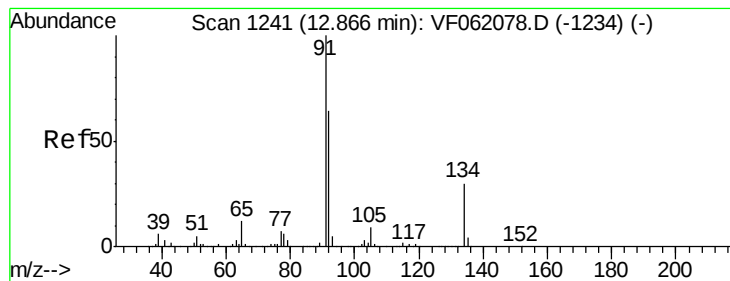


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 22.246 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

ClientSampleId :

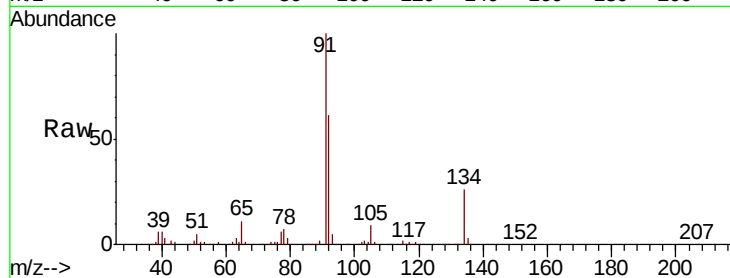
Tot Ion: 91 Resp: 244520

Ion Ratio Lower Upper

91 100

92 60.6 31.9 95.5

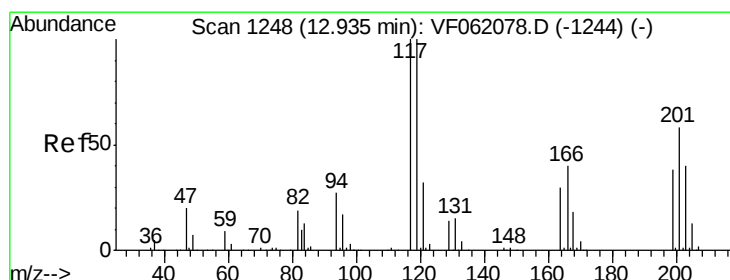
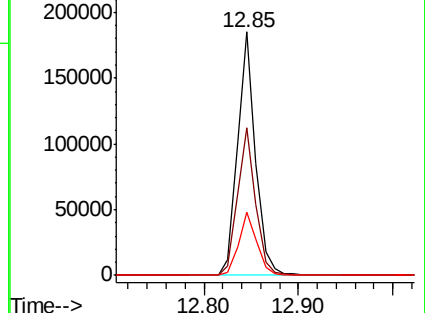
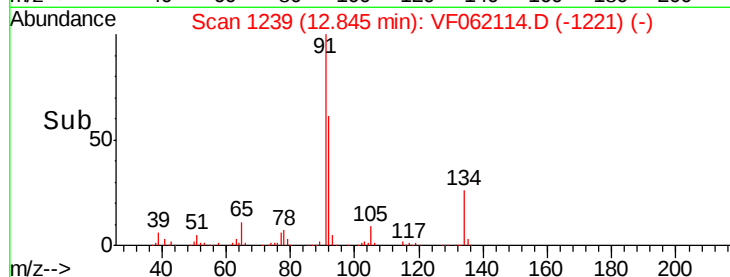
134 25.9 14.9 44.9



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: 21.664 ug/l

RT: 12.91 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VF062114.D

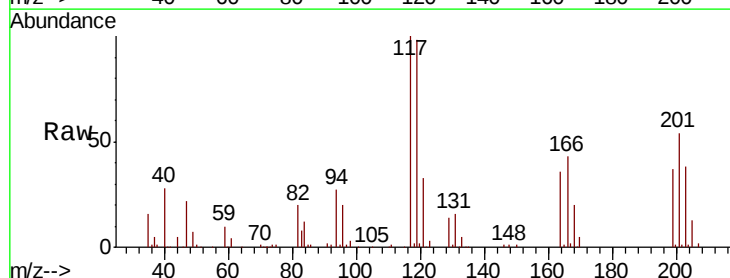
Acq: 23 Mar 2019 13:44

Tgt Ion: 117 Resp: 59428

Ion Ratio Lower Upper

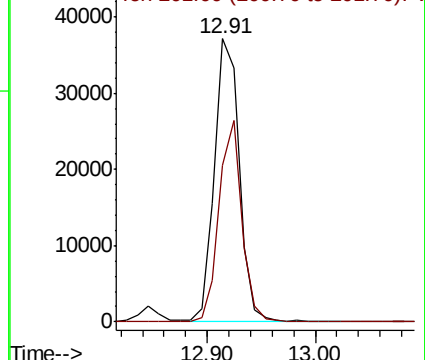
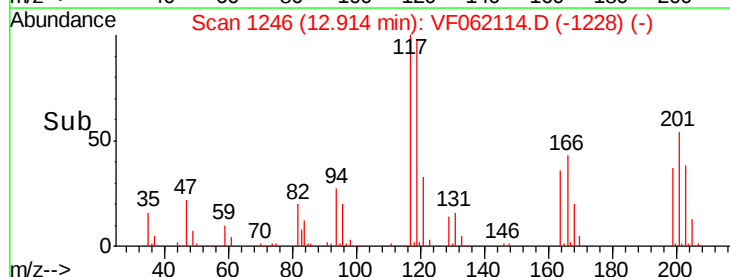
117 100

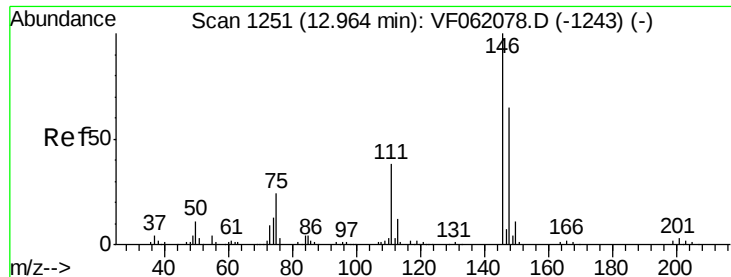
201 55.2 28.7 86.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 23.343 ug/l

RT: 12.94 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

ClientSampleId :

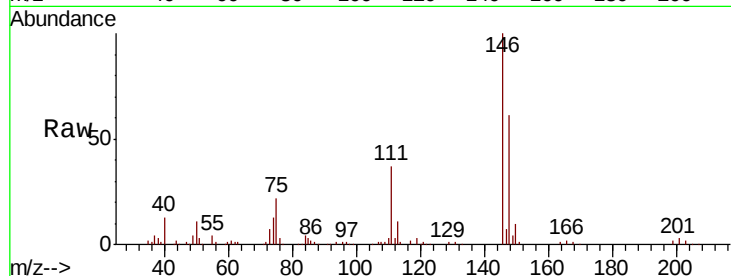
Tot Ion:146 Resp: 118773

Ion Ratio Lower Upper

146 100

111 36.9 19.1 57.3

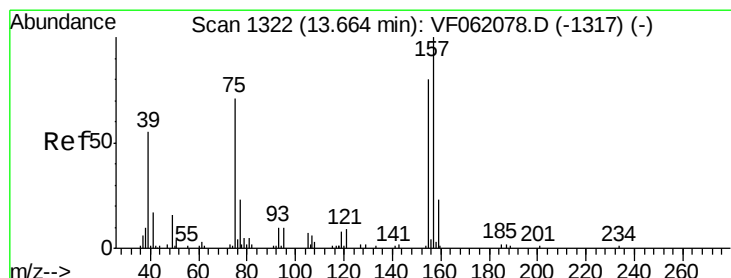
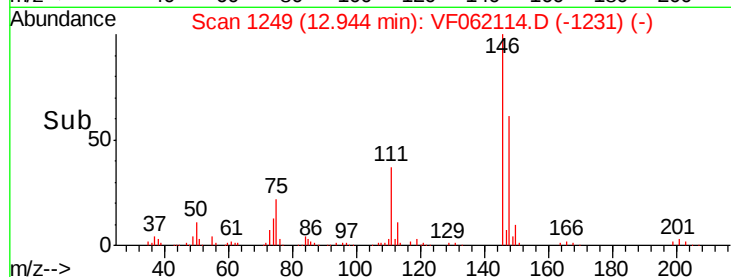
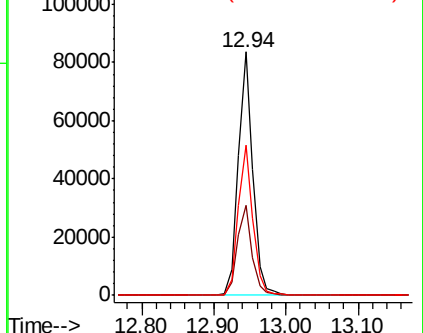
148 61.4 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.631 ug/l

RT: 13.64 min Scan# 1320

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

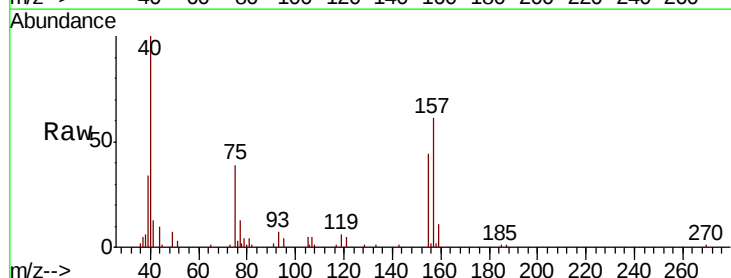
Tgt Ion: 75 Resp: 6718

Ion Ratio Lower Upper

75 100

155 113.2 56.1 168.4

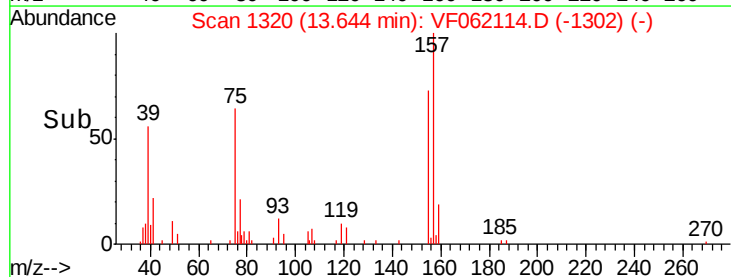
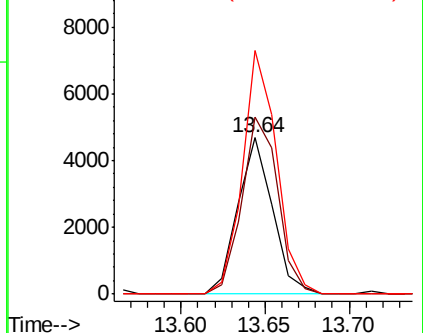
157 155.8 70.4 211.2

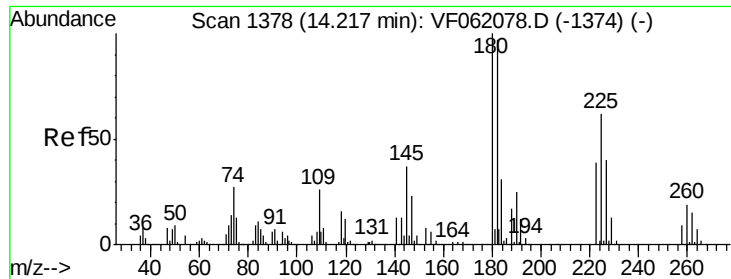


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

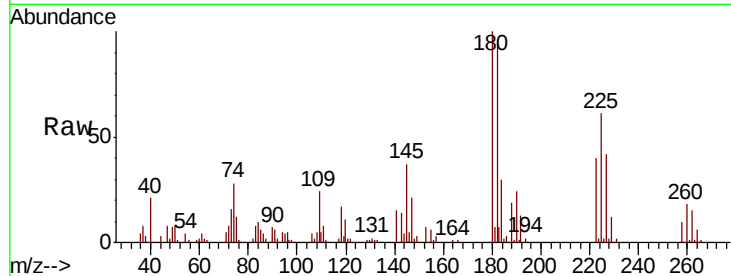




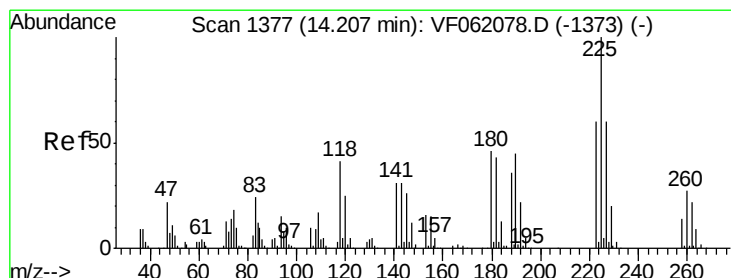
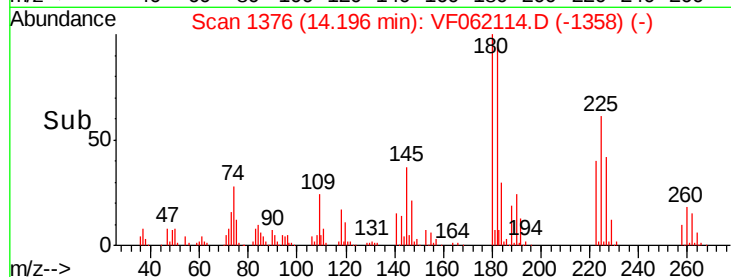
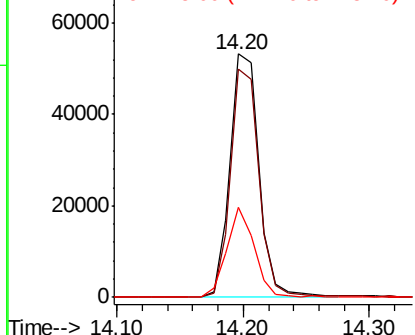
#93
 1,2,4-Trichlorobenzene
 Concen: 23.830 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:180 Resp: 84503
 Ion Ratio Lower Upper
 180 100
 182 93.8 48.7 146.1
 145 37.0 18.3 54.8

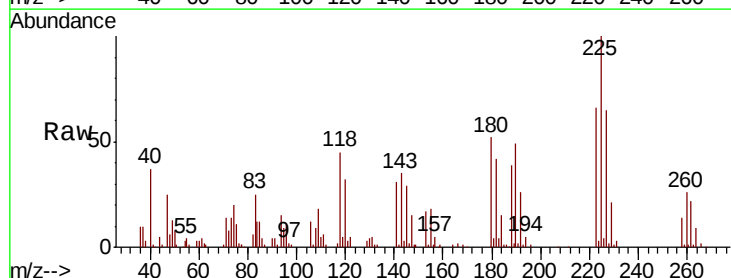


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

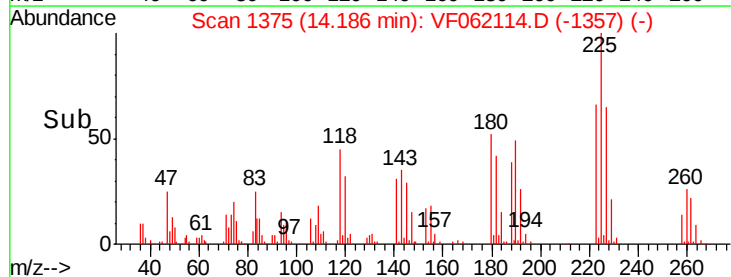
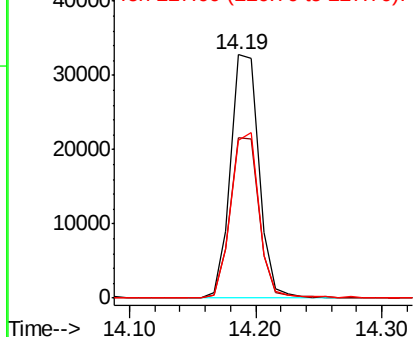


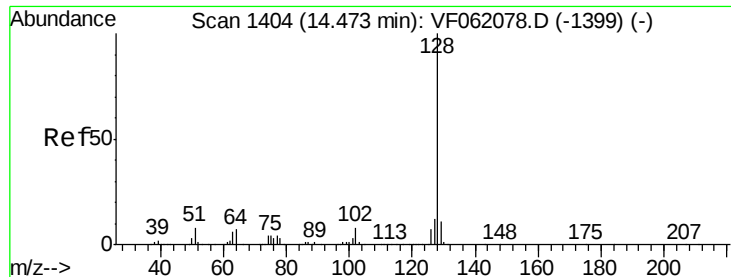
#94
 Hexachlorobutadiene
 Concen: 21.668 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF062114.D
 Acq: 23 Mar 2019 13:44

Tgt Ion:225 Resp: 51090
 Ion Ratio Lower Upper
 225 100
 223 65.7 30.0 90.0
 227 64.8 30.2 90.6



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





#95

Naphthalene

Concen: 22.038 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

Instrument :

MSVOA_F

ClientSampled :

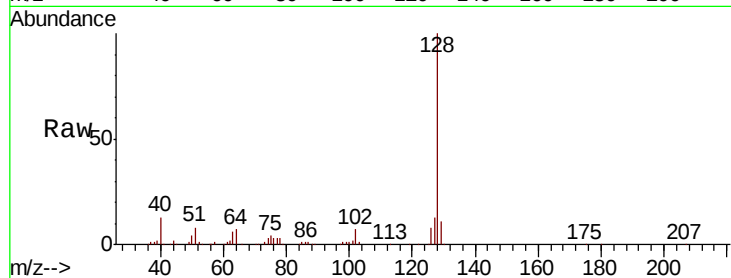
Tot Ion:128 Resp: 136953

Ion Ratio Lower Upper

128 100

127 12.9 9.5 14.3

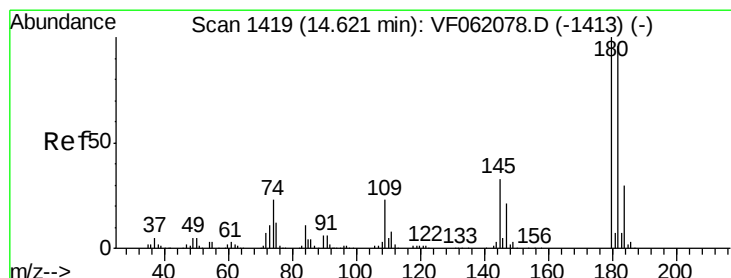
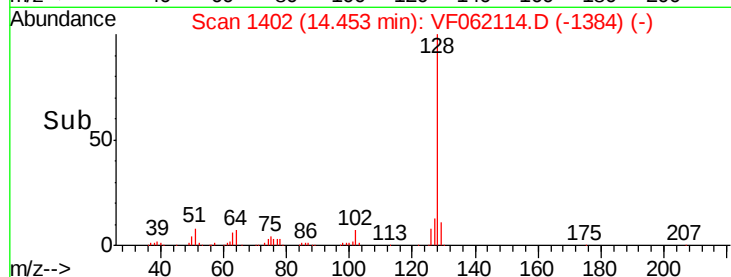
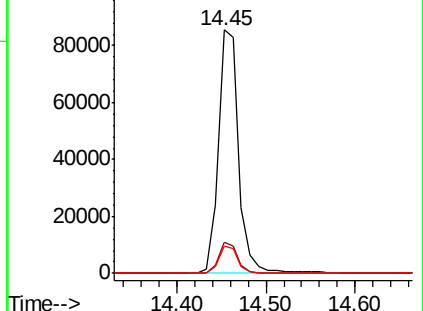
129 11.4 8.7 13.1



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: 23.248 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VF062114.D

Acq: 23 Mar 2019 13:44

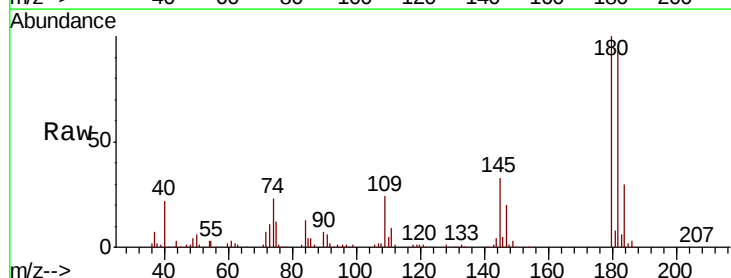
Tgt Ion:180 Resp: 77170

Ion Ratio Lower Upper

180 100

182 93.0 47.9 143.7

145 33.5 16.6 49.7



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

