

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062497.D
 Acq On : 12 May 2019 12:28
 Operator : FY/SY
 Sample : VF0512SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

Quant Time: May 13 04:43:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	325484	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.79	114	421894	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.93	117	382193	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	249981	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	153485	49.90	ug/l	0.03
Spiked Amount			Recovery	=	99.80%	
35) Dibromofluoromethane	4.33	113	183047	54.46	ug/l	0.03
Spiked Amount			Recovery	=	108.92%	
50) Toluene-d8	7.73	98	429688	52.81	ug/l	0.03
Spiked Amount			Recovery	=	105.62%	
62) 4-Bromofluorobenzene	11.50	95	201294	54.84	ug/l	0.02
Spiked Amount			Recovery	=	109.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	81143	21.541	ug/l	99
3) Chloromethane	1.14	50	48912	19.688	ug/l	100
4) Vinyl Chloride	1.19	62	51120	20.629	ug/l	99
5) Bromomethane	1.38	94	43087	21.618	ug/l	88
6) Chloroethane	1.44	64	29280	23.502	ug/l	93
7) Trichlorofluoromethane	1.56	101	119877	23.315	ug/l	99
8) Diethyl Ether	1.72	74	15716	20.201	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.90	101	68685	23.399	ug/l	98
10) Methyl Iodide	1.98	142	113074	23.375	ug/l	97
11) Tert butyl alcohol	2.70	59	16670	95.890	ug/l	100
12) 1,1-Dichloroethene	1.87	96	48373	19.384	ug/l	96
13) Acrolein	2.11	56	12442	103.406	ug/l	97
14) Allyl chloride	2.21	41	77085	34.969	ug/l	98
15) Acrylonitrile	3.10	53	33737	102.449	ug/l	98
16) Acetone	2.36	43	70620	113.492	ug/l	94
17) Carbon Disulfide	1.91	76	115326	21.195	ug/l	95
18) Methyl Acetate	2.46	43	23834	19.066	ug/l	99
19) Methyl tert-butyl Ether	2.56	73	106459	20.667	ug/l	98
20) Methylene Chloride	2.33	84	49724	22.087	ug/l	89
21) trans-1,2-Dichloroethene	2.43	96	54816	23.056	ug/l	93
22) Diisopropyl ether	2.95	45	146301	21.235	ug/l	94
23) Vinyl Acetate	3.36	43	330388	107.597	ug/l	98
24) 1,1-Dichloroethane	3.03	63	97857	23.501	ug/l	98
25) 2-Butanone	4.53	43	81032	103.656	ug/l #	91
26) 2,2-Dichloropropane	3.80	77	68144	29.305	ug/l	98
27) cis-1,2-Dichloroethene	3.67	96	64570	21.726	ug/l	95
28) Bromochloromethane	3.92	49	37329	19.767	ug/l	93
29) Tetrahydrofuran	4.29	42	34248	95.323	ug/l	98
30) Chloroform	4.06	83	133578	23.745	ug/l	99
31) Cyclohexane	3.90	56	74031	22.275	ug/l	98
32) 1,1,1-Trichloroethane	4.31	97	122590	25.426	ug/l	97
36) 1,1-Dichloropropene	4.49	75	78702	21.716	ug/l	97
37) Ethyl Acetate	4.32	43	32341	19.726	ug/l #	98
38) Carbon Tetrachloride	4.21	117	128994	33.391	ug/l #	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062497.D
 Acq On : 12 May 2019 12:28
 Operator : FY/SY
 Sample : VF0512SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

Quant Time: May 13 04:43:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.66	83	76546	21.059	ug/l	97
40) Benzene	4.84	78	184167	23.076	ug/l	96
41) Methacrylonitrile	4.95	41	15600	17.951	ug/l #	59
42) 1,2-Dichloroethane	5.15	62	77576	23.241	ug/l	98
43) Isopropyl Acetate	7.13	43	35317	21.424	ug/l #	99
44) Trichloroethene	5.70	130	64021	21.837	ug/l	98
45) 1,2-Dichloropropane	6.42	63	38284	21.179	ug/l	98
46) Dibromomethane	6.28	93	35120	23.432	ug/l	92
47) Bromodichloromethane	6.56	83	88722	23.677	ug/l	96
48) Methyl methacrylate	6.89	41	23857	20.479	ug/l	95
49) 1,4-Dioxane	6.90	88	3596	290.866	ug/l #	85
51) 4-Methyl-2-Pentanone	8.42	43	137258	109.883	ug/l	99
52) Toluene	7.80	92	116413	23.645	ug/l	99
53) t-1,3-Dichloropropene	8.44	75	66674	23.525	ug/l	95
54) cis-1,3-Dichloropropene	7.47	75	81301	24.649	ug/l	99
55) 1,1,2-Trichloroethane	8.65	97	34772	22.248	ug/l	95
56) Ethyl methacrylate	8.77	69	33373	20.228	ug/l	98
57) 1,3-Dichloropropane	9.01	76	55839	23.652	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.46	63	48098	96.969	ug/l	99
59) 2-Hexanone	9.64	43	99838	115.567	ug/l	98
60) Dibromochloromethane	8.87	129	60323	23.599	ug/l	99
61) 1,2-Dibromoethane	9.15	107	39991	21.770	ug/l	97
64) Tetrachloroethene	8.32	164	64970	20.939	ug/l	96
65) Chlorobenzene	9.95	112	144028	22.776	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.07	131	70073	21.966	ug/l	97
67) Ethyl Benzene	10.04	91	251458	22.709	ug/l	97
68) m/p-Xylenes	10.27	106	183611	44.941	ug/l	96
69) o-Xylene	10.83	106	100308	22.721	ug/l	100
70) Styrene	10.90	104	152955	23.117	ug/l	97
71) Bromoform	10.89	173	35431	20.273	ug/l #	99
73) Isopropylbenzene	11.23	105	329607	22.241	ug/l	100
74) N-amyl acetate	11.45	43	54347	17.082	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.78	83	46265	19.938	ug/l	100
76) 1,2,3-Trichloropropane	11.88	75	37371	21.110	ug/l #	100
77) Bromobenzene	11.59	156	86389	22.211	ug/l	98
78) n-propylbenzene	11.68	91	351027	22.248	ug/l	100
79) 2-Chlorotoluene	11.81	91	216857	22.103	ug/l	99
80) 1,3,5-Trimethylbenzene	11.91	105	287259	22.115	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	19976	30.019	ug/l #	63
82) 4-Chlorotoluene	11.98	91	214241	22.109	ug/l	99
83) tert-Butylbenzene	12.20	119	291451	21.350	ug/l	99
84) 1,2,4-Trimethylbenzene	12.27	105	290282	22.836	ug/l	99
85) sec-Butylbenzene	12.38	105	370375	22.290	ug/l	100
86) p-Isopropyltoluene	12.53	119	344021	22.284	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	155005	21.821	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	154121	22.480	ug/l	98
89) n-Butylbenzene	12.90	91	286366	20.850	ug/l	97
90) Hexachloroethane	12.98	117	77340	20.064	ug/l	96
91) 1,2-Dichlorobenzene	13.00	146	154754	22.508	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.69	75	9510	18.294	ug/l	97

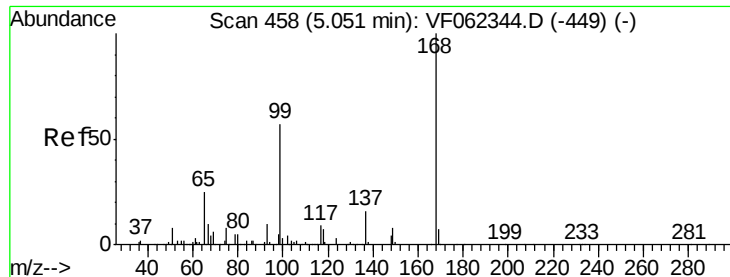
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051219\
Data File : VF062497.D
Acq On : 12 May 2019 12:28
Operator : FY/SY
Sample : VF0512SBS01
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Quant Time: May 13 04:43:09 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	136694	22.165	ug/l	97
94) Hexachlorobutadiene	14.23	225	101665	22.118	ug/l	98
95) Naphthalene	14.50	128	171191	18.464	ug/l	98
96) 1,2,3-Trichlorobenzene	14.65	180	127597	21.357	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

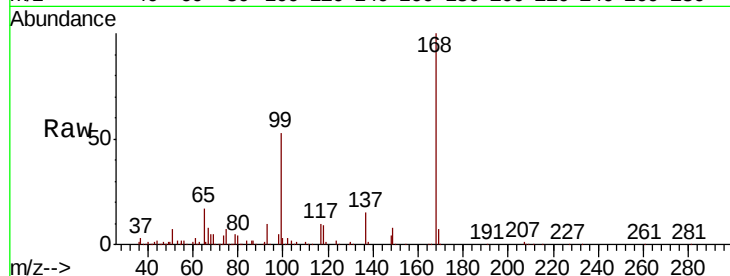
VF0512SBS01

Tot Ion:168 Resp: 325484

Ion Ratio Lower Upper

168 100

99 52.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.08

120000

100000

80000

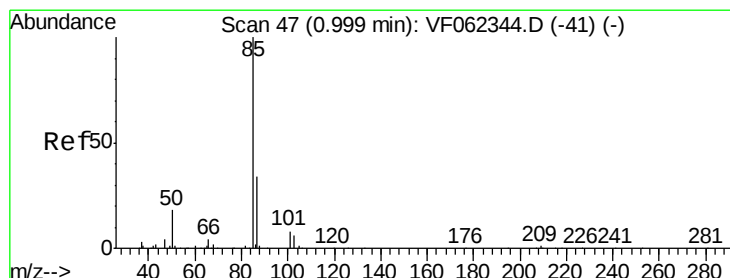
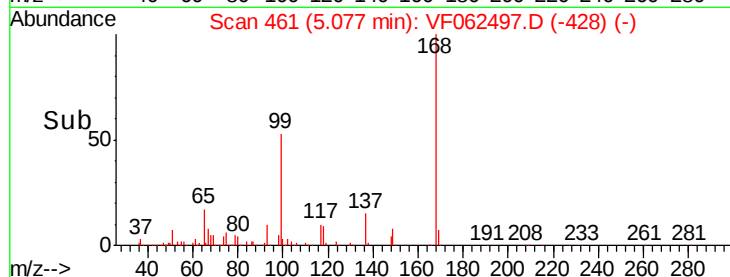
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 21.541 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062497.D

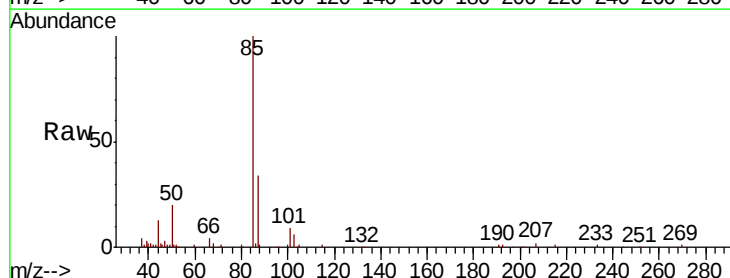
Acq: 12 May 2019 12:28

Tgt Ion: 85 Resp: 81143

Ion Ratio Lower Upper

85 100

87 34.0 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

25000

20000

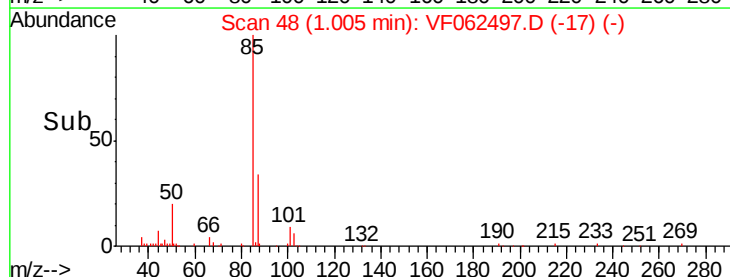
15000

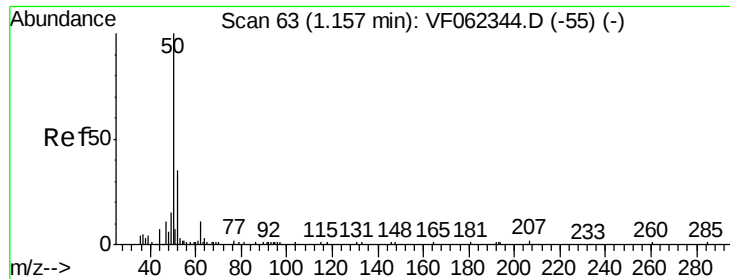
10000

5000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 19.688 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

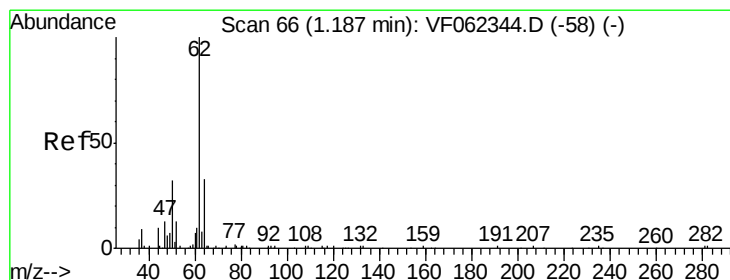
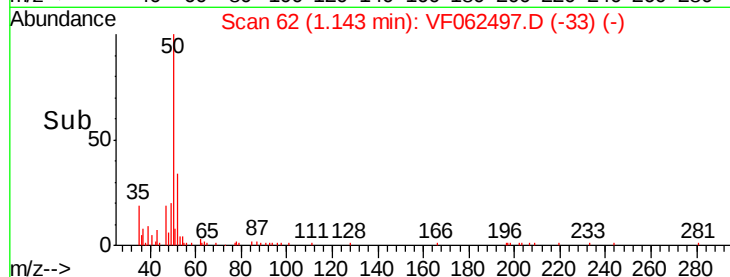
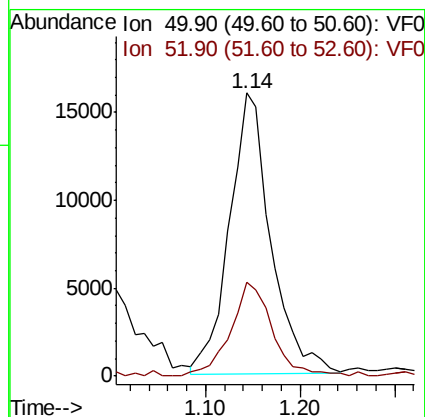
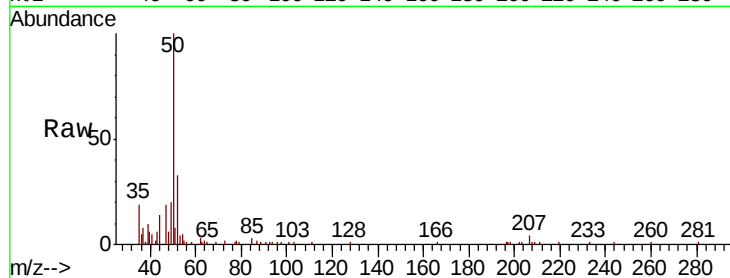
VF0512SBS01

Tot Ion: 50 Resp: 48912

Ion Ratio Lower Upper

50 100

52 32.8 26.1 39.1



#4

Vinyl Chloride

Concen: 20.629 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062497.D

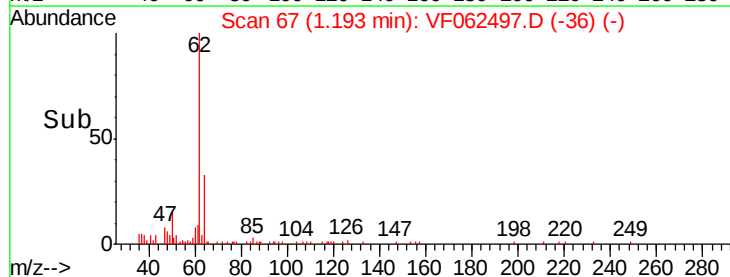
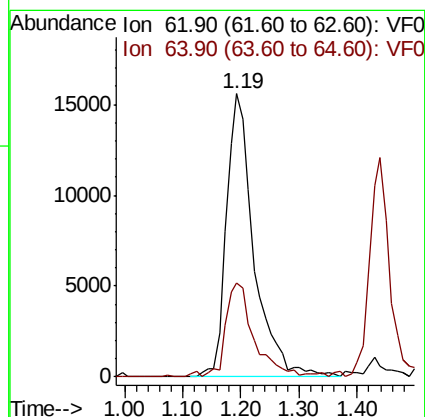
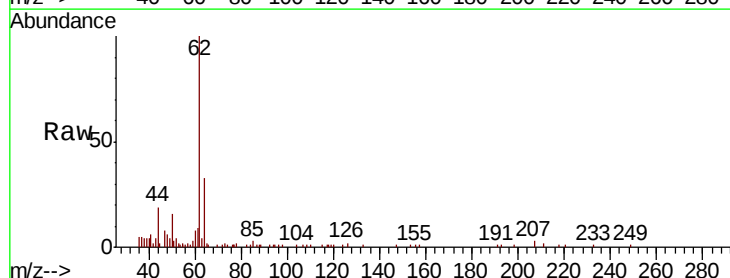
Acq: 12 May 2019 12:28

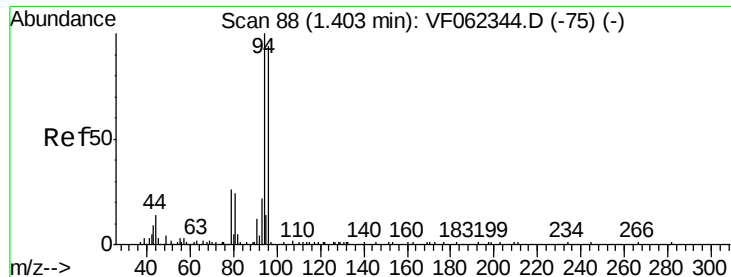
Tgt Ion: 62 Resp: 51120

Ion Ratio Lower Upper

62 100

64 32.1 26.1 39.1





#5

Bromomethane

Concen: 21.618 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

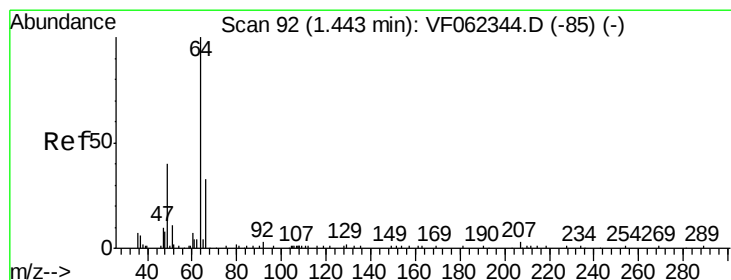
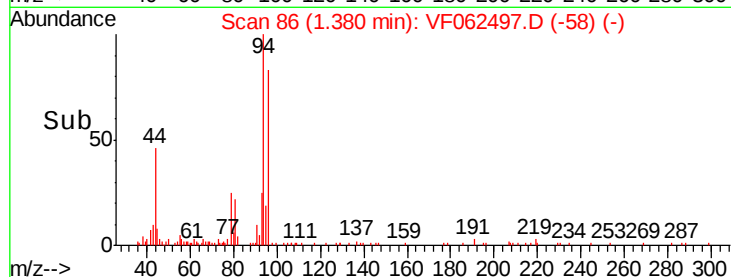
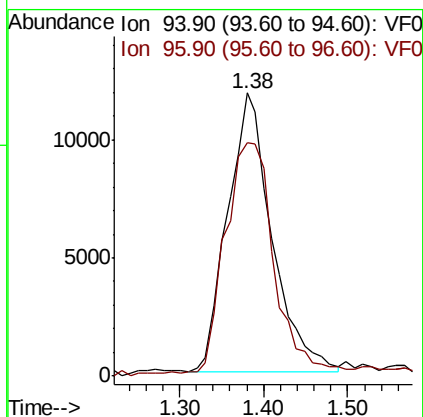
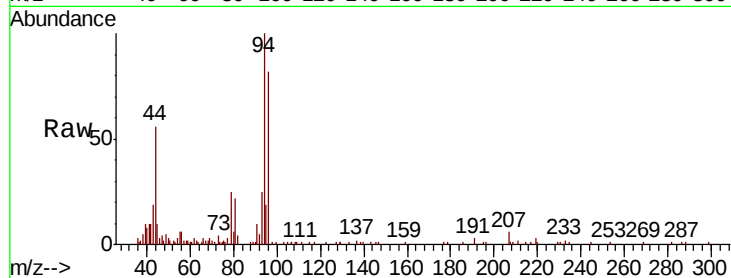
VF0512SBS01

Tot Ion: 94 Resp: 43087

Ion Ratio Lower Upper

94 100

96 82.3 75.4 113.2



#6

Chloroethane

Concen: 23.502 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VF062497.D

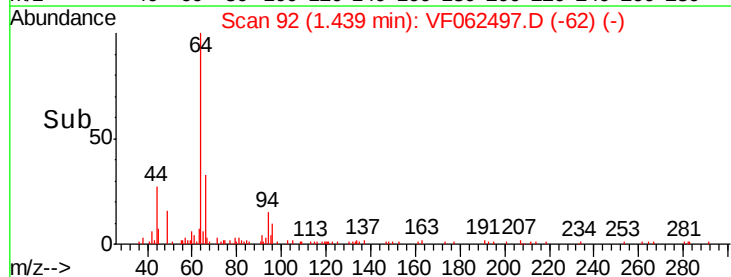
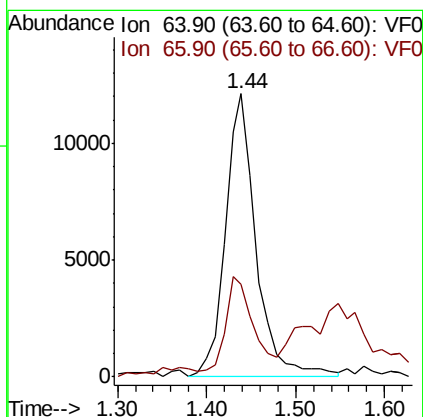
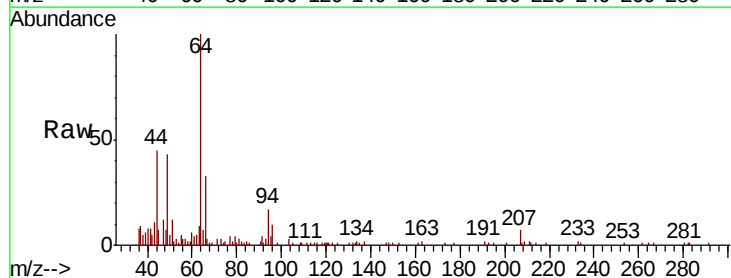
Acq: 12 May 2019 12:28

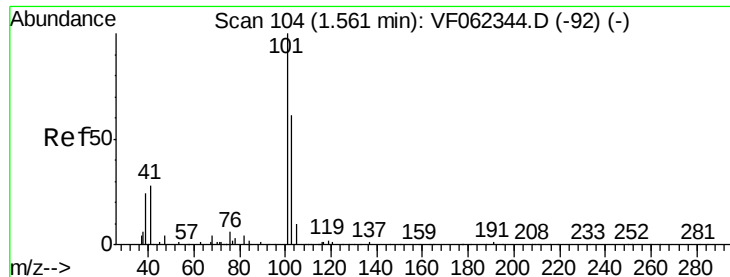
Tgt Ion: 64 Resp: 29280

Ion Ratio Lower Upper

64 100

66 29.5 26.6 39.8



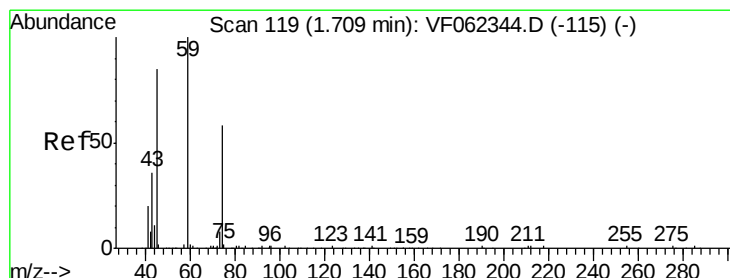
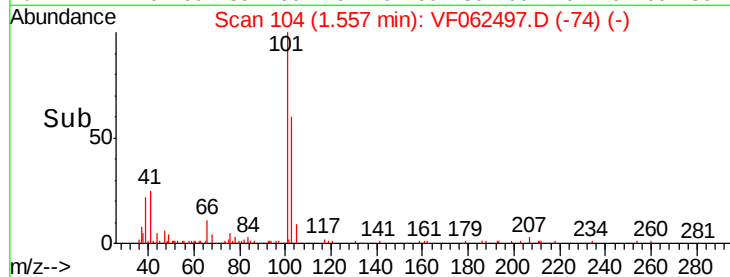
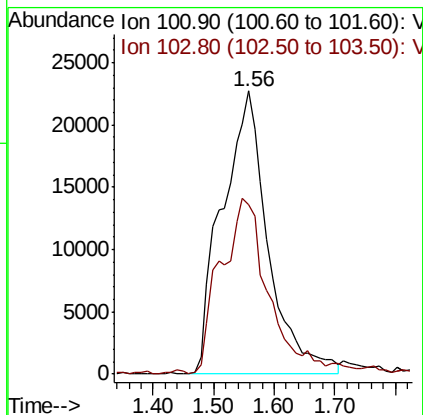
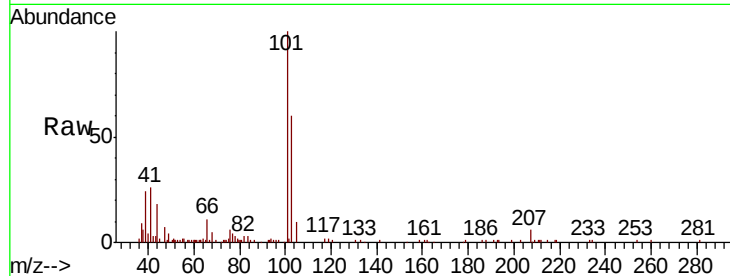


#7

Trichlorofluoromethane
Concen: 23.315 ug/l
RT: 1.56 min Scan# 104
Delta R.T. -0.00 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

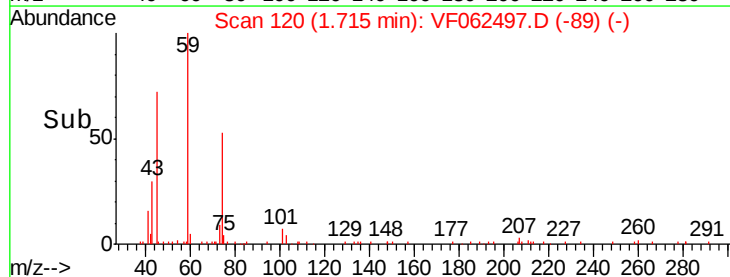
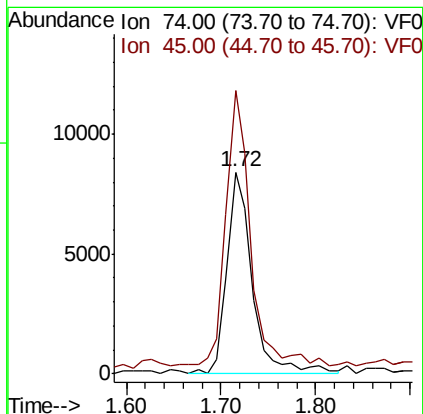
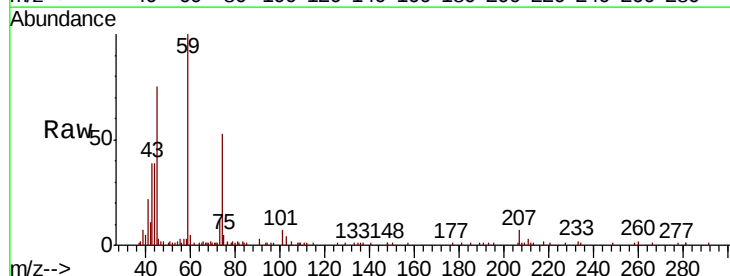
Tot Ion:101 Resp: 119877
Ion Ratio Lower Upper
101 100
103 59.8 48.5 72.7

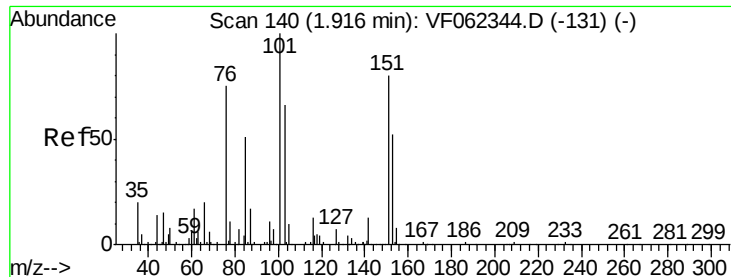


#8

Diethyl Ether
Concen: 20.201 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 74 Resp: 15716
Ion Ratio Lower Upper
74 100
45 131.5 73.9 221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.399 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

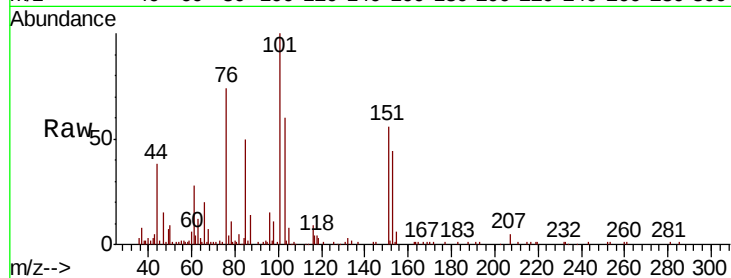
Tot Ion:101 Resp: 68685

Ion Ratio Lower Upper

101 100

85 49.9 39.5 59.3

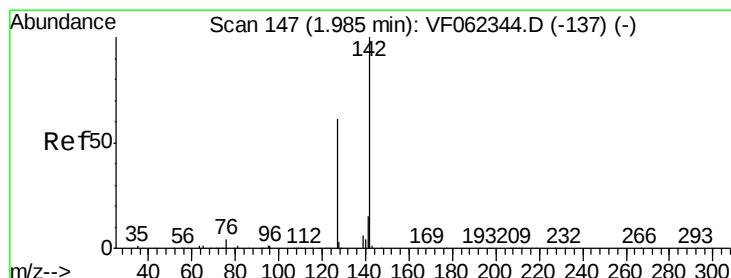
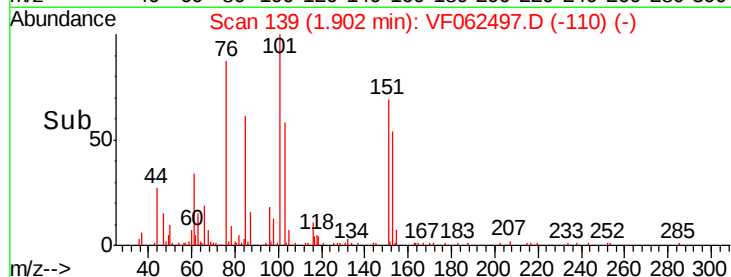
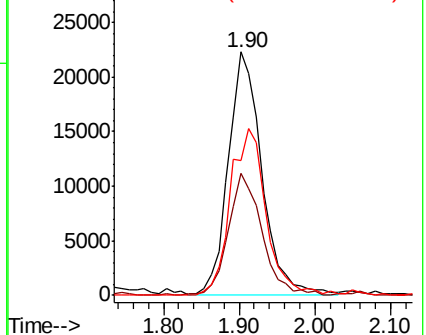
151 73.0 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 23.375 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.00 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

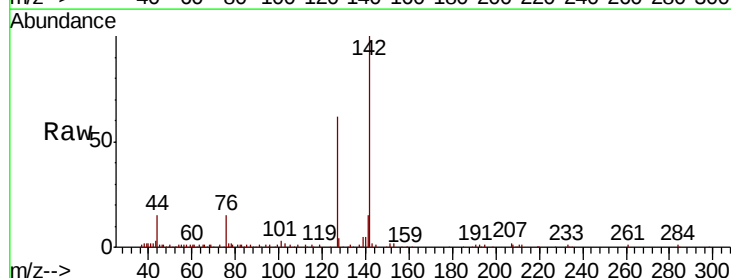
Tgt Ion:142 Resp: 113074

Ion Ratio Lower Upper

142 100

127 63.5 48.4 72.6

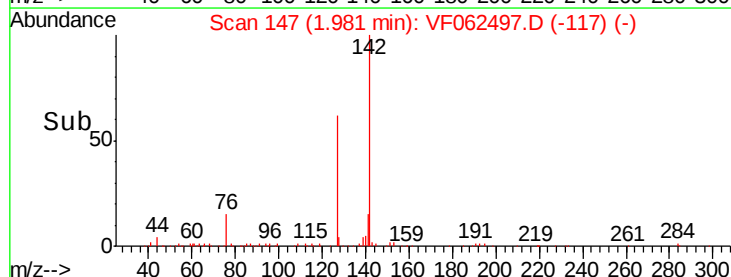
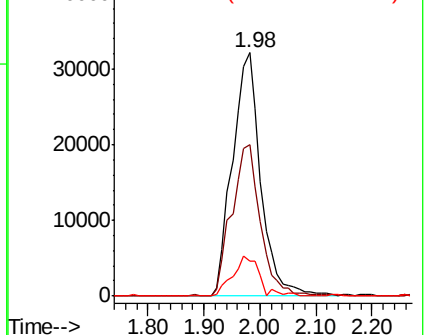
141 15.5 12.2 18.4

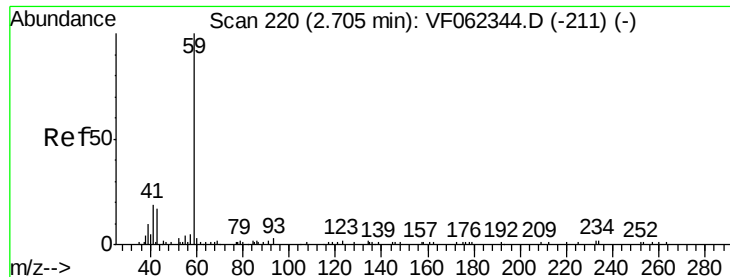


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



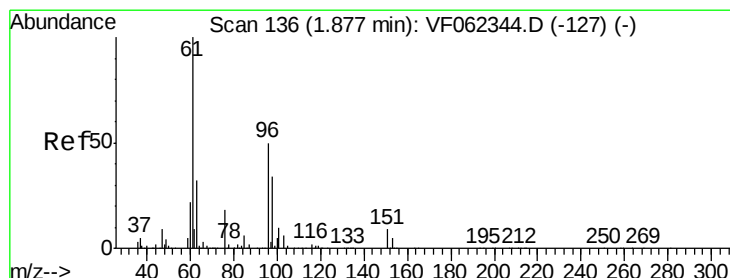
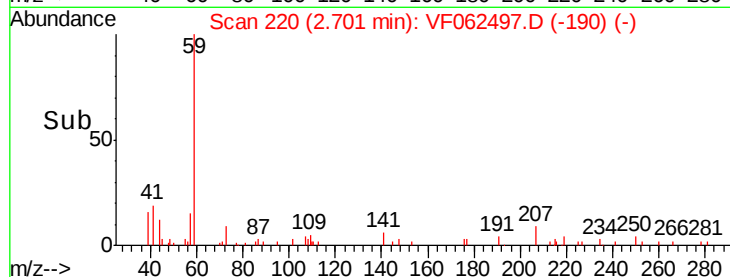
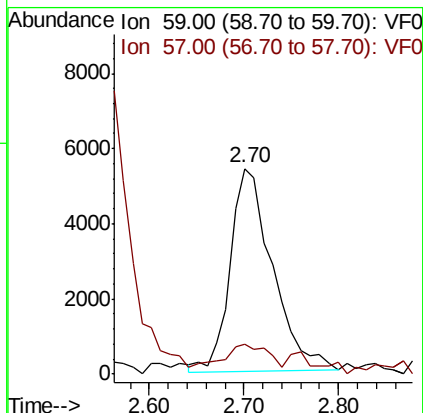
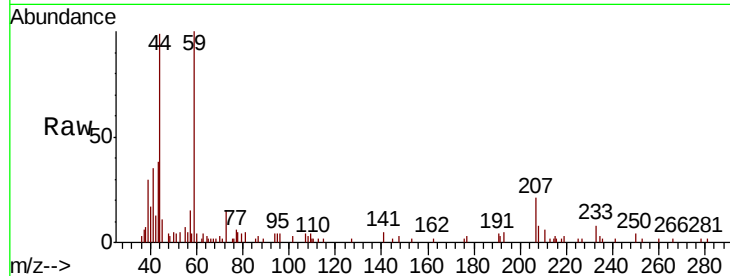


#11

Tert butyl alcohol
 Concen: 95.890 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.00 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

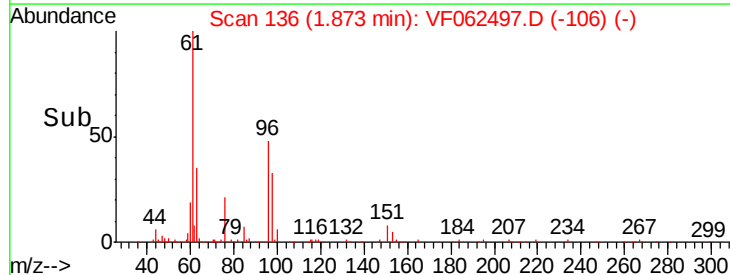
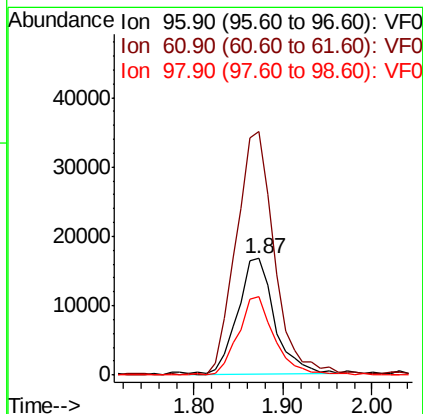
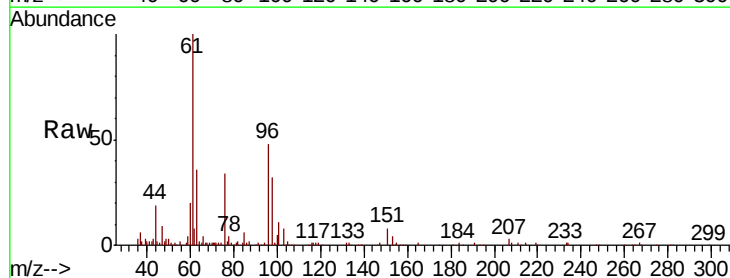
Tot Ion: 59 Resp: 16670
 Ion Ratio Lower Upper
 59 100
 57 11.7 9.3 13.9

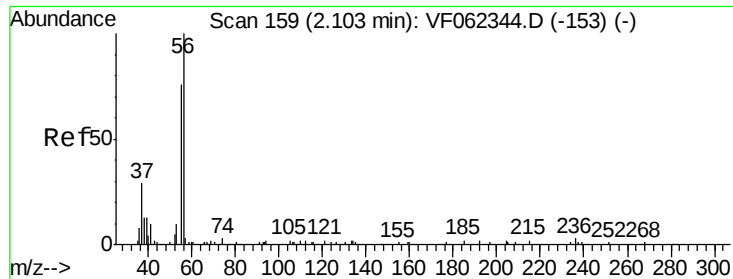


#12

1,1-Dichloroethene
 Concen: 19.384 ug/l
 RT: 1.87 min Scan# 136
 Delta R.T. -0.00 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Tgt Ion: 96 Resp: 48373
 Ion Ratio Lower Upper
 96 100
 61 210.1 163.2 244.8
 98 67.2 55.2 82.8

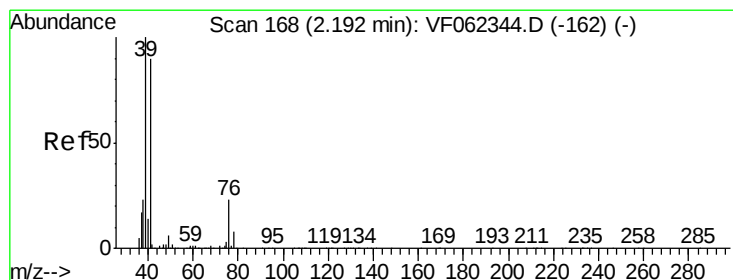
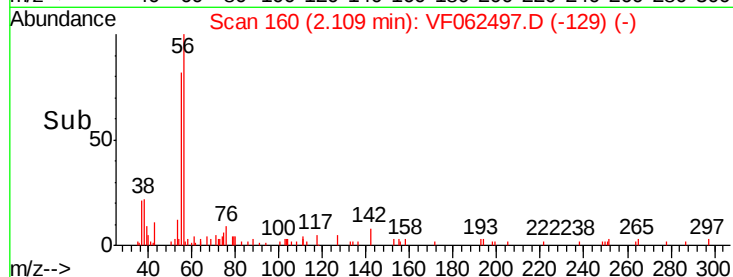
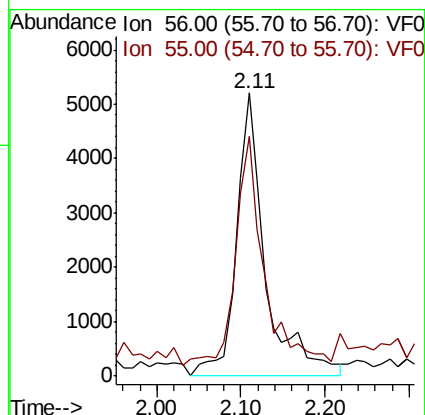
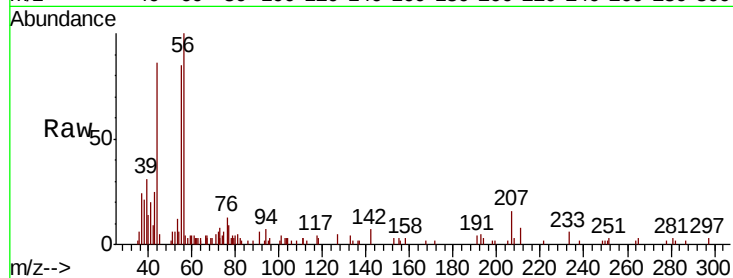




#13
Acrolein
Concen: 103.406 ug/l
RT: 2.11 min Scan# 160
Delta R.T. 0.01 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

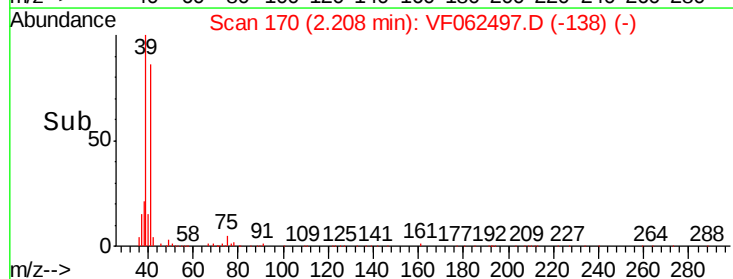
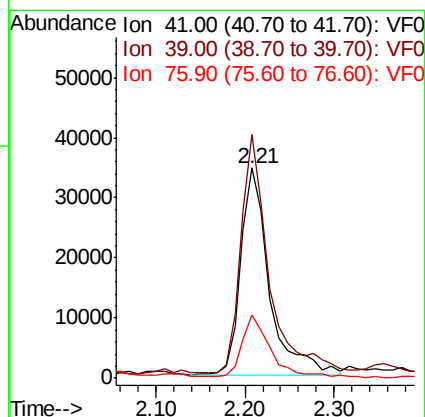
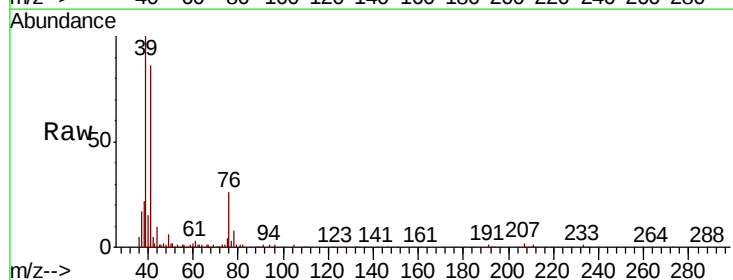
Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

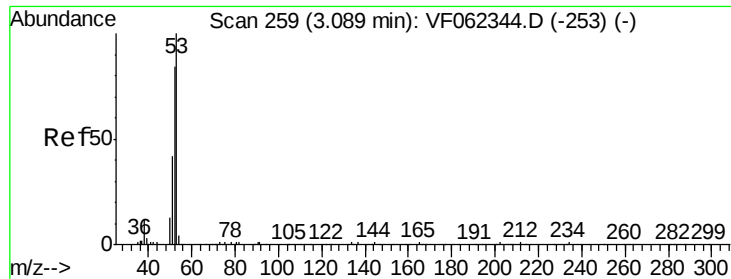
Tot Ion: 56 Resp: 12442
Ion Ratio Lower Upper
56 100
55 70.9 58.4 87.6



#14
Allyl chloride
Concen: 34.969 ug/l
RT: 2.21 min Scan# 170
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 41 Resp: 77085
Ion Ratio Lower Upper
41 100
39 114.9 90.8 136.2
76 29.8 22.2 33.4





#15

Acrylonitrile

Concen: 102.449 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

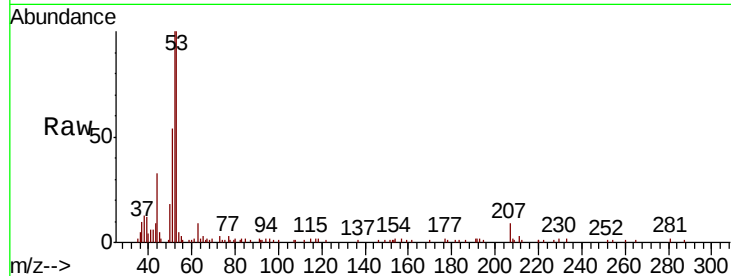
Tot Ion: 53 Resp: 33737

Ion Ratio Lower Upper

53 100

52 97.4 77.2 115.8

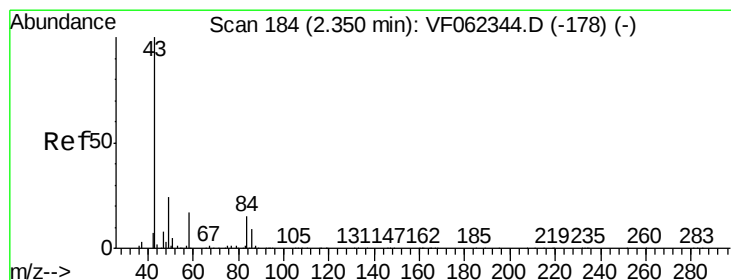
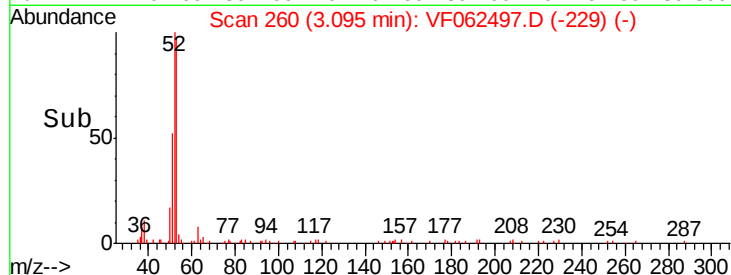
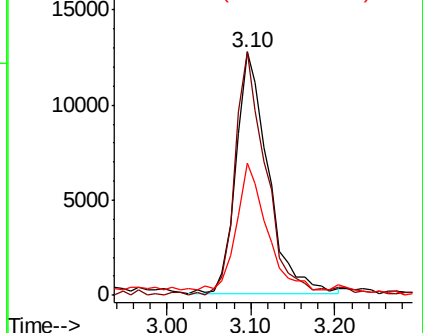
51 53.1 40.6 61.0



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: 113.492 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062497.D

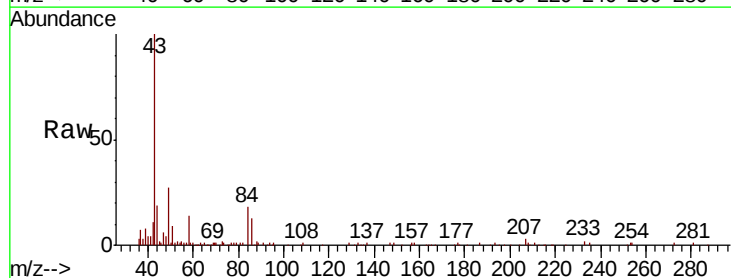
Acq: 12 May 2019 12:28

Tgt Ion: 43 Resp: 70620

Ion Ratio Lower Upper

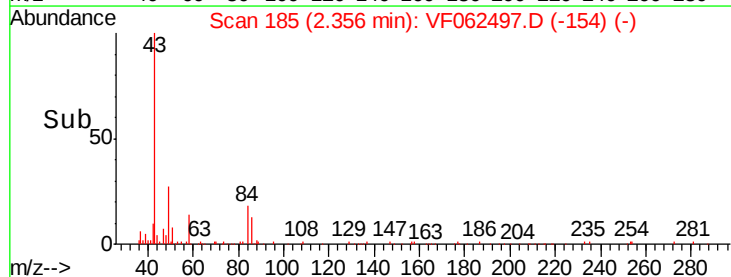
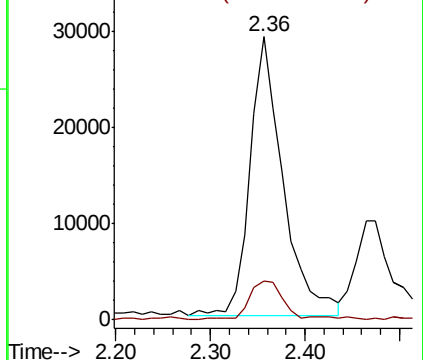
43 100

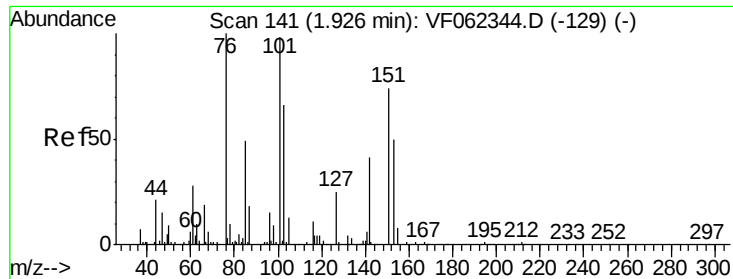
58 13.8 13.1 19.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

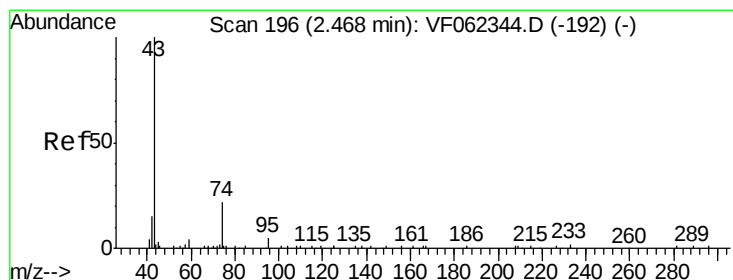
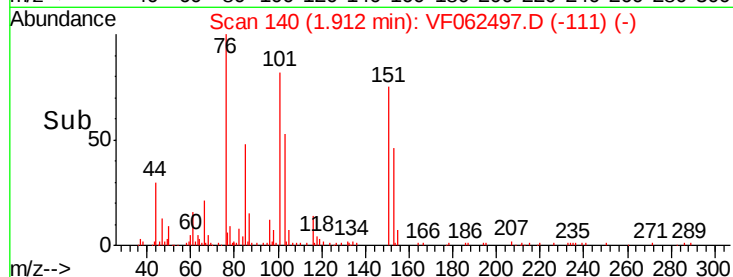
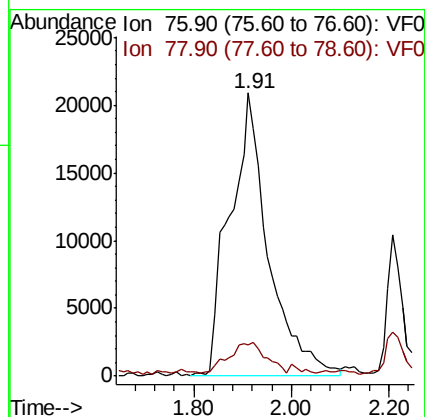
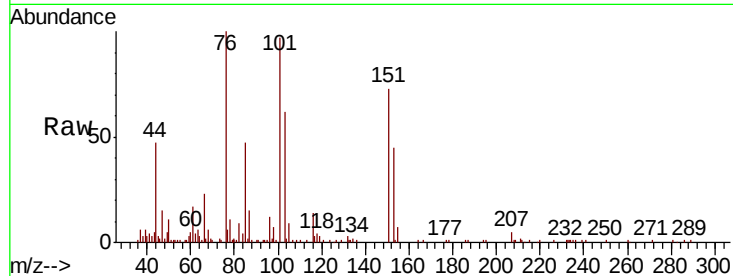




#17
Carbon Disulfide
Concen: 21.195 ug/l
RT: 1.91 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

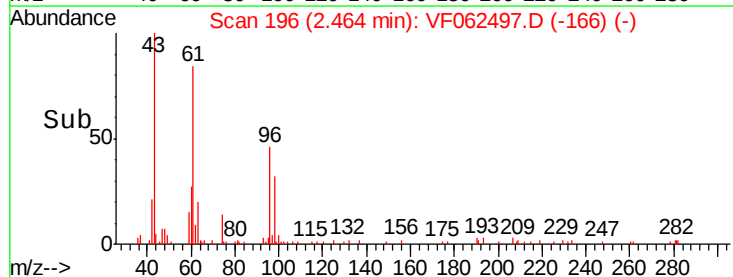
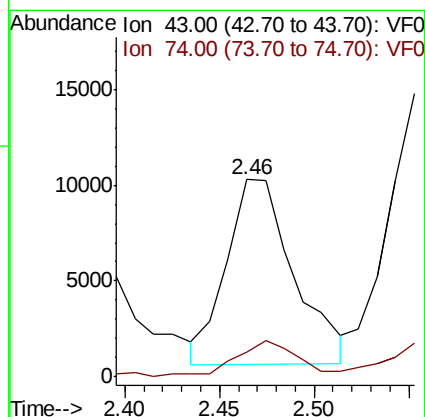
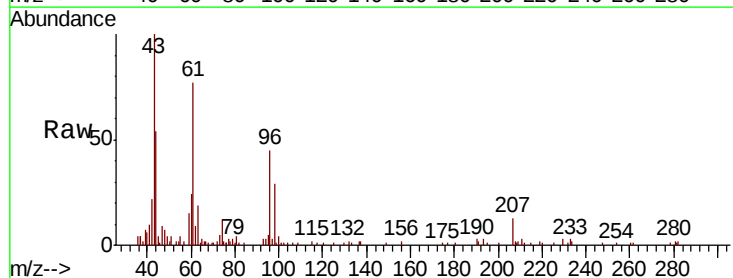
Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

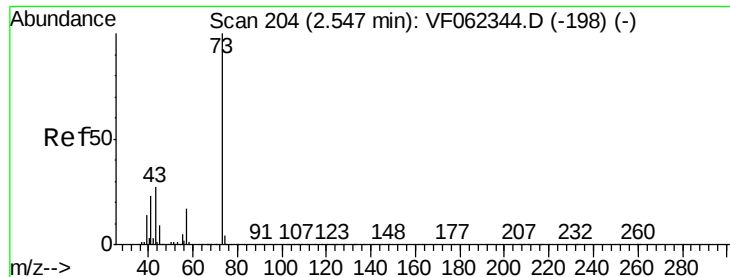
Tot Ion: 76 Resp: 115326
Ion Ratio Lower Upper
76 100
78 9.4 9.0 13.4



#18
Methyl Acetate
Concen: 19.066 ug/l
RT: 2.46 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 43 Resp: 23834
Ion Ratio Lower Upper
43 100
74 18.3 15.0 22.4



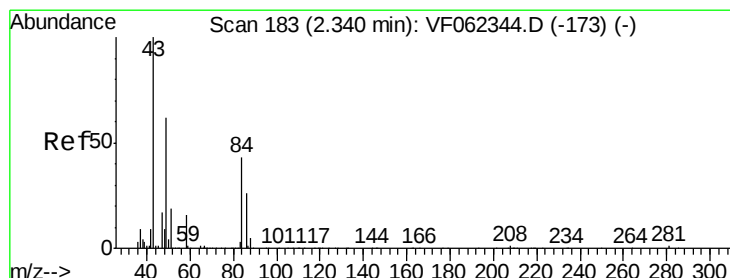
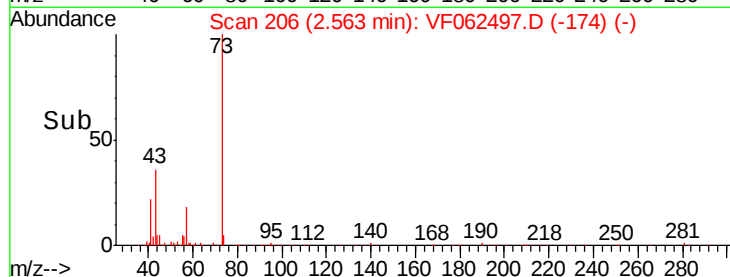
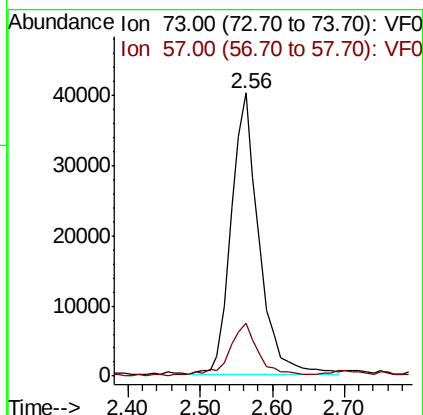
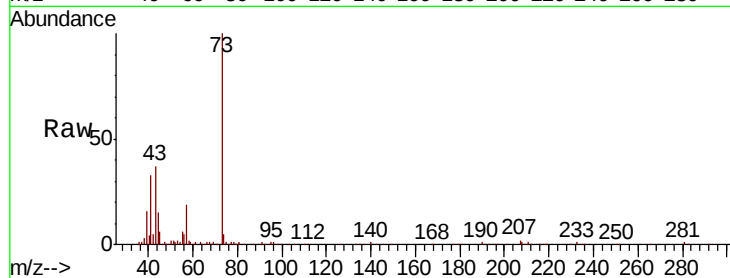


#19

Methyl tert-butyl Ether
 Concen: 20.667 ug/l
 RT: 2.56 min Scan# 206
 Delta R.T. 0.02 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

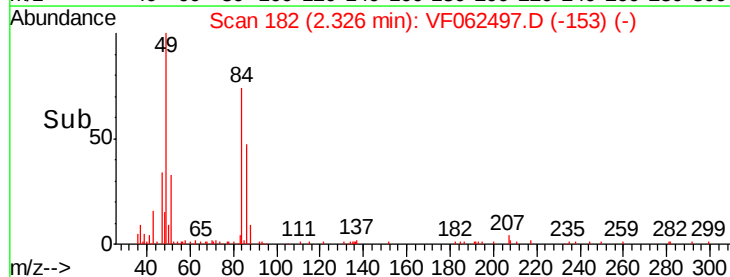
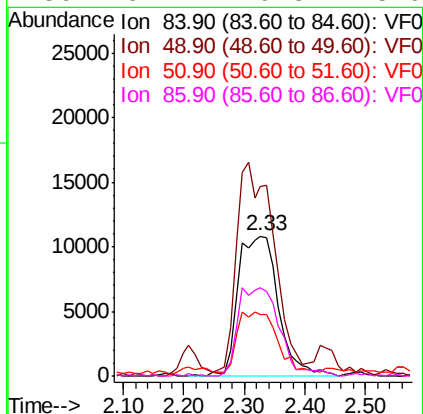
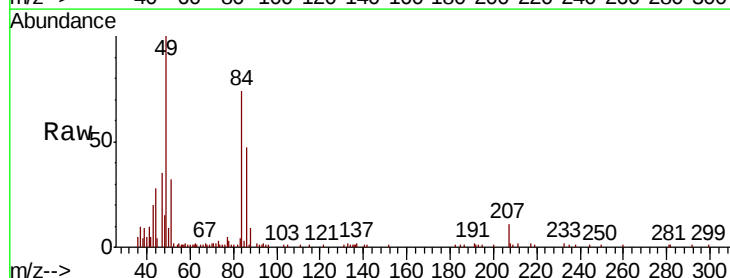
Tot Ion: 73 Resp: 106459
 Ion Ratio Lower Upper
 73 100
 57 18.0 13.7 20.5

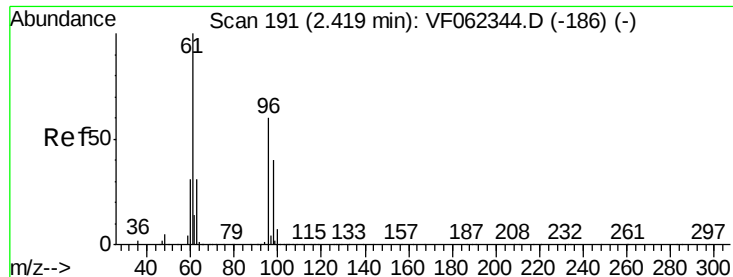


#20

Methylene Chloride
 Concen: 22.087 ug/l
 RT: 2.33 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Tgt Ion: 84 Resp: 49724
 Ion Ratio Lower Upper
 84 100
 49 128.4 117.5 176.3
 51 39.2 37.0 55.4
 86 62.4 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 23.056 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

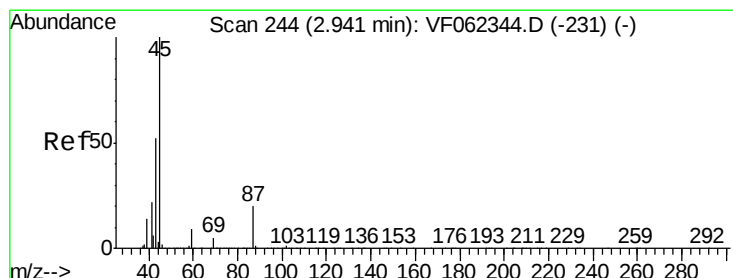
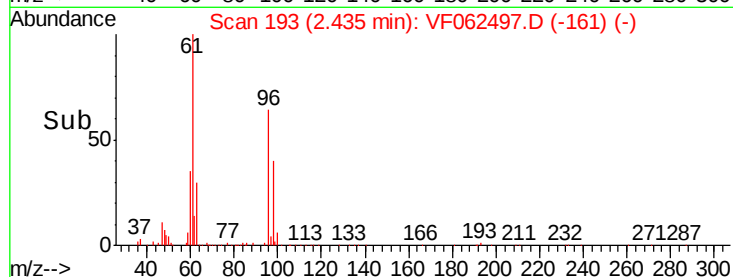
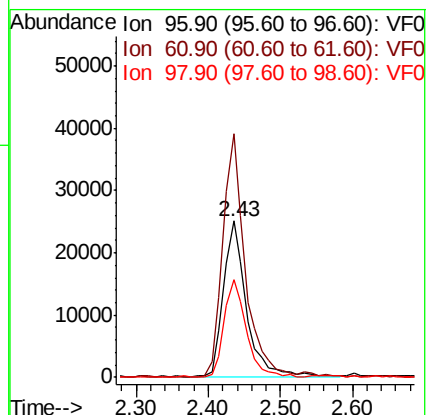
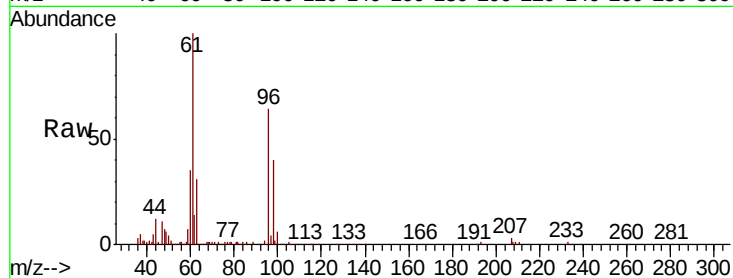
Tot Ion: 96 Resp: 54816

Ion Ratio Lower Upper

96 100

61 156.2 133.2 199.8

98 62.3 53.1 79.7



#22

Diisopropyl ether

Concen: 21.235 ug/l

RT: 2.95 min Scan# 245

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Tgt Ion: 45 Resp: 146301

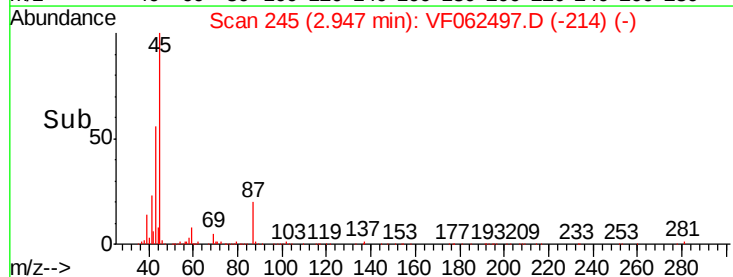
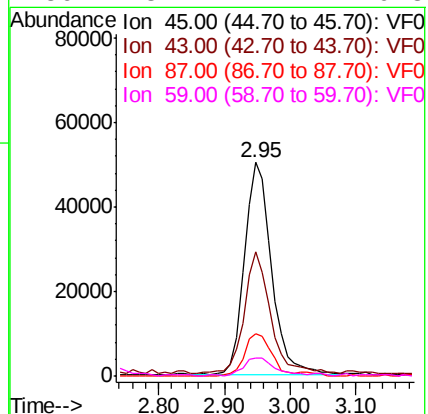
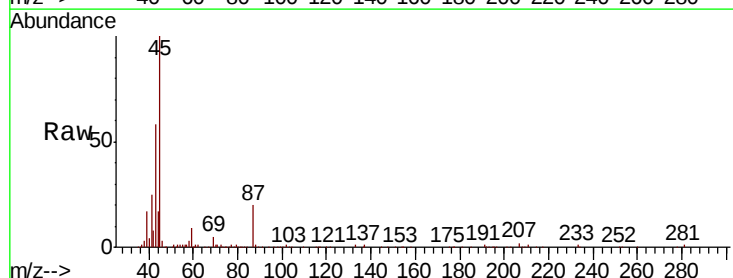
Ion Ratio Lower Upper

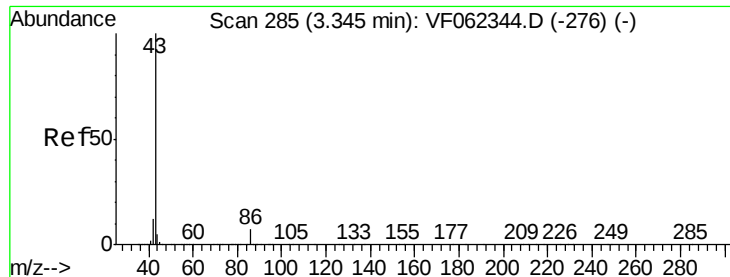
45 100

43 57.2 41.4 62.0

87 20.1 15.8 23.6

59 8.4 7.2 10.8





#23

Vinyl Acetate

Concen: 107.597 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

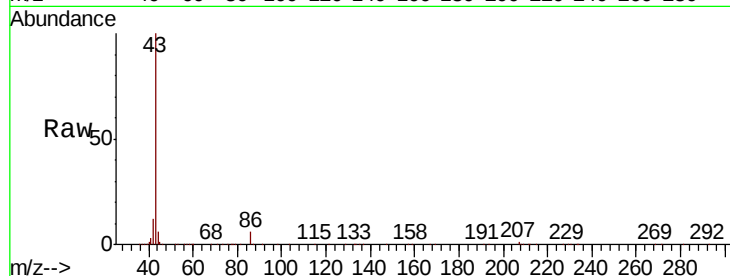
VF0512SBS01

Tot Ion: 43 Resp: 330388

Ion Ratio Lower Upper

43 100

86 6.3 5.7 8.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

150000

100000

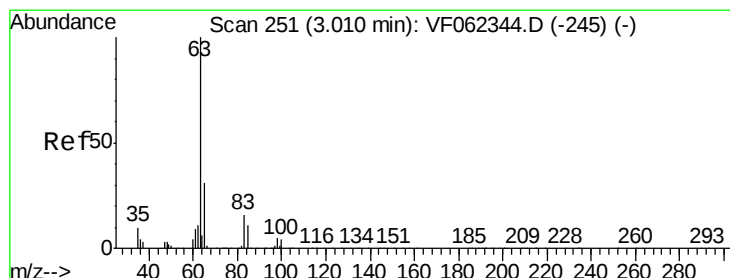
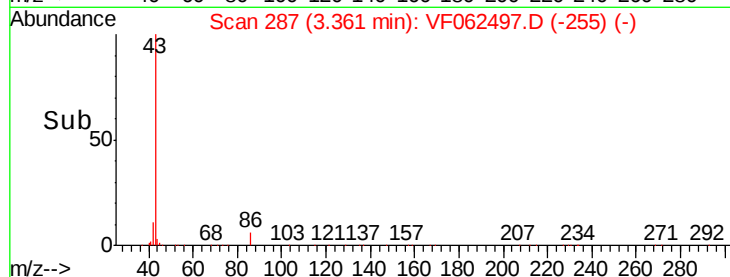
50000

0

3.36

3.20 3.30 3.40 3.50 3.60

Time-->



#24

1,1-Dichloroethane

Concen: 23.501 ug/l

RT: 3.03 min Scan# 253

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

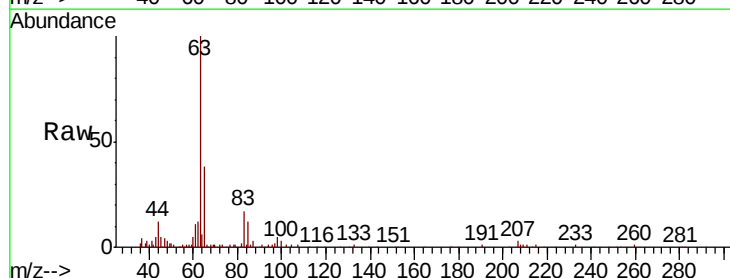
Tgt Ion: 63 Resp: 97857

Ion Ratio Lower Upper

63 100

98 4.4 2.6 8.0

100 3.1 1.8 5.4



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0

50000

40000

30000

20000

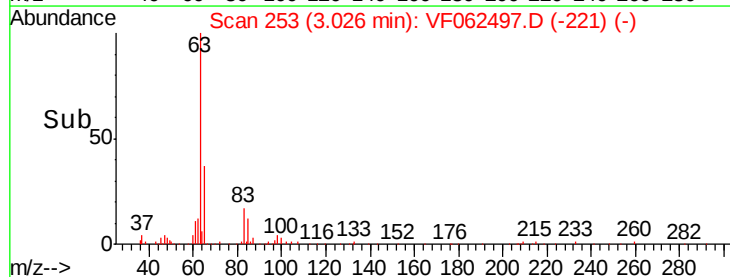
10000

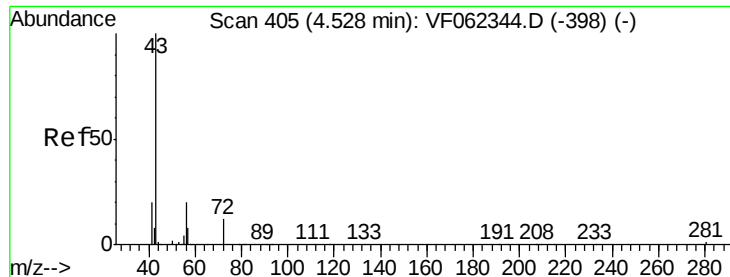
0

3.03

2.90 3.00 3.10 3.20

Time-->





#25

2-Butanone

Concen: 103.656 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

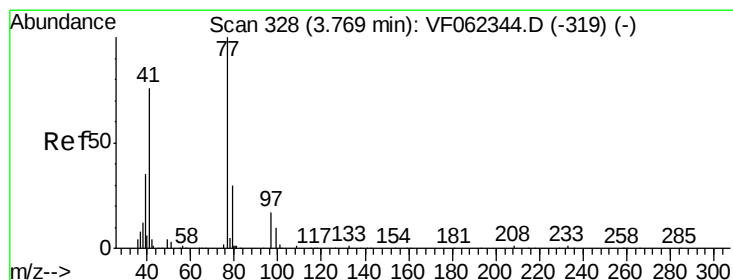
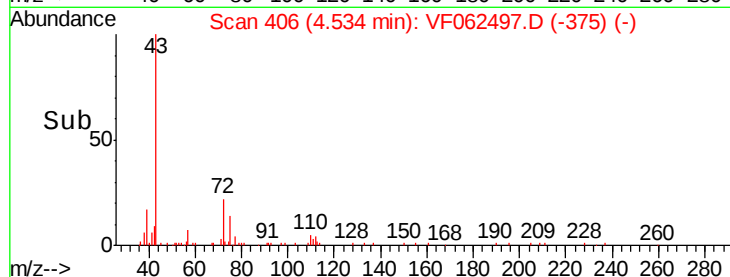
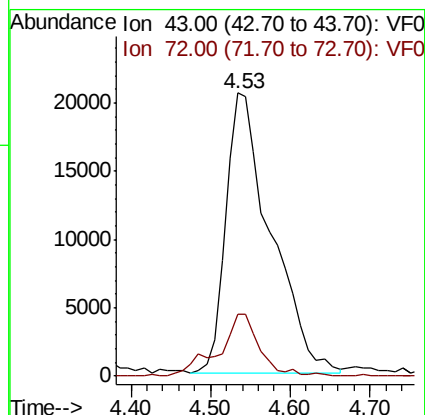
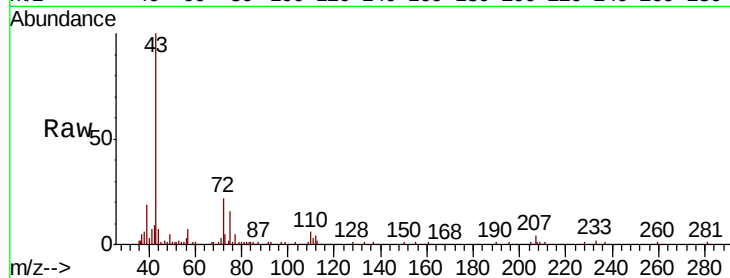
VF0512SBS01

Tot Ion: 43 Resp: 81032

Ion Ratio Lower Upper

43 100

72 22.0 14.2 21.4#



#26

2,2-Dichloropropane

Concen: 29.305 ug/l

RT: 3.80 min Scan# 331

Delta R.T. 0.03 min

Lab File: VF062497.D

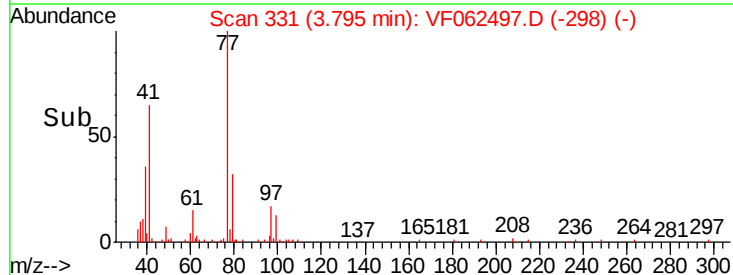
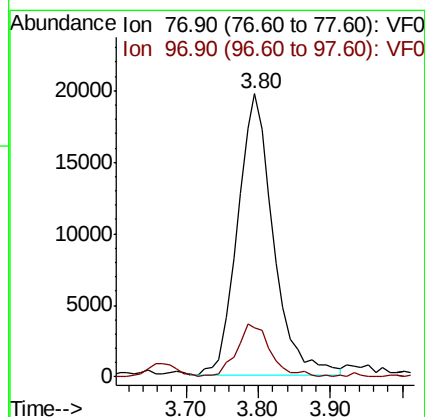
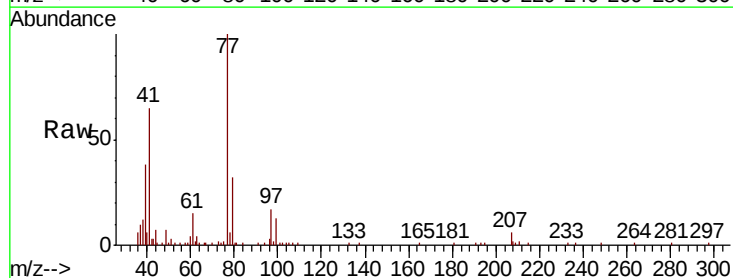
Acq: 12 May 2019 12:28

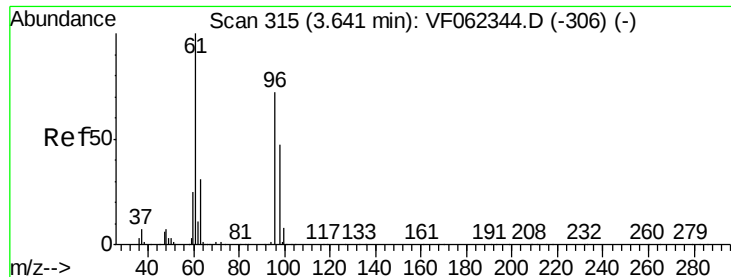
Tgt Ion: 77 Resp: 68144

Ion Ratio Lower Upper

77 100

97 18.0 9.5 28.5



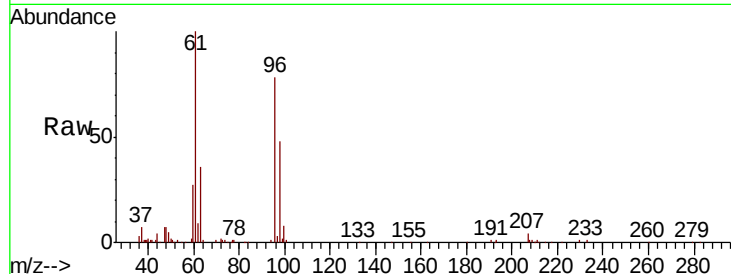


#27

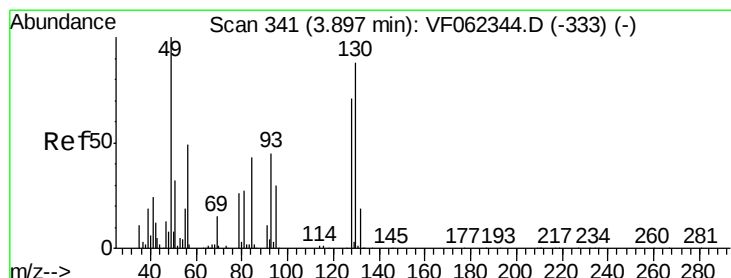
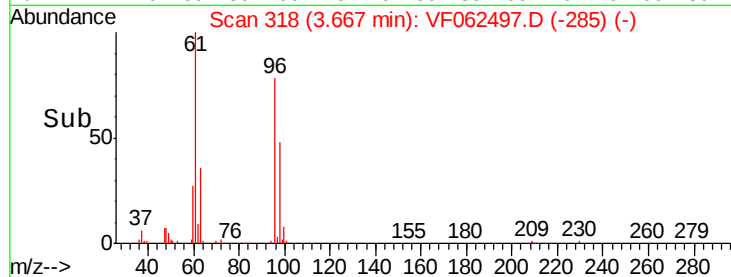
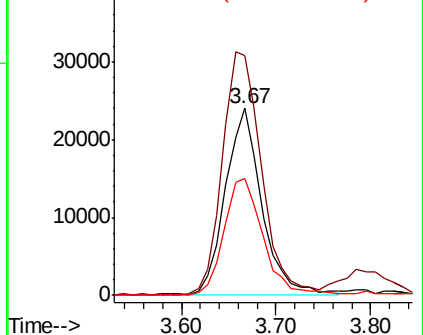
cis-1,2-Dichloroethene
 Concen: 21.726 ug/l
 RT: 3.67 min Scan# 318
 Delta R.T. 0.03 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

Tot Ion: 96 Resp: 64570
 Ion Ratio Lower Upper
 96 100
 61 139.3 0.0 263.0
 98 66.1 0.0 130.8



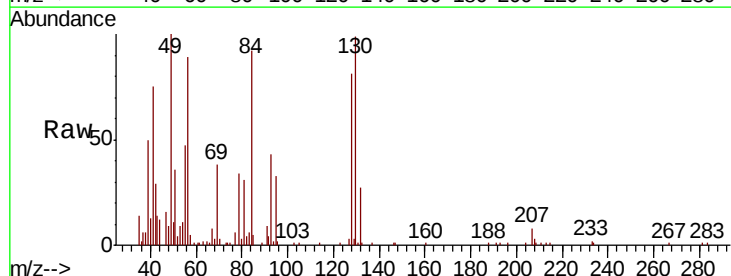
Abundance Ion 95.90 (95.60 to 96.60): VF0
 Ion 60.90 (60.60 to 61.60): VF0
 Ion 97.90 (97.60 to 98.60): VF0



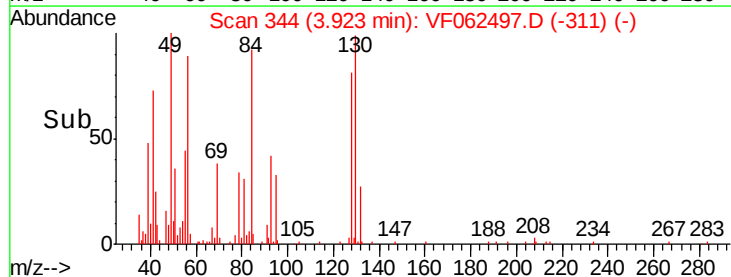
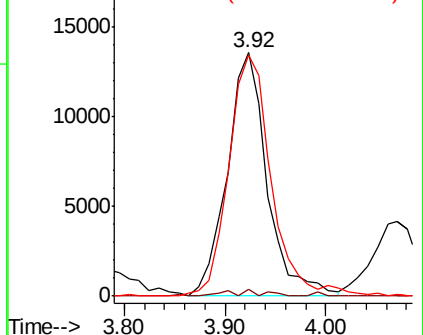
#28

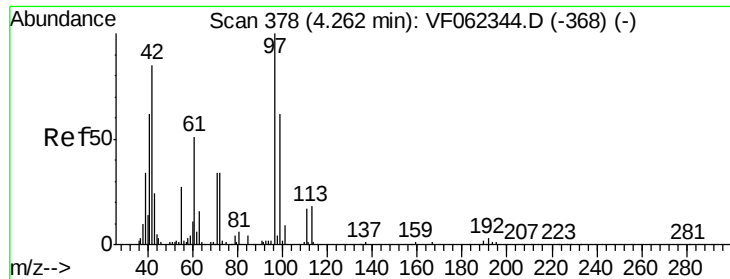
Bromochloromethane
 Concen: 19.767 ug/l
 RT: 3.92 min Scan# 344
 Delta R.T. 0.03 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Tgt Ion: 49 Resp: 37329
 Ion Ratio Lower Upper
 49 100
 129 1.2 0.0 2.2
 130 106.0 79.4 119.0



Abundance Ion 48.90 (48.60 to 49.60): VF0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

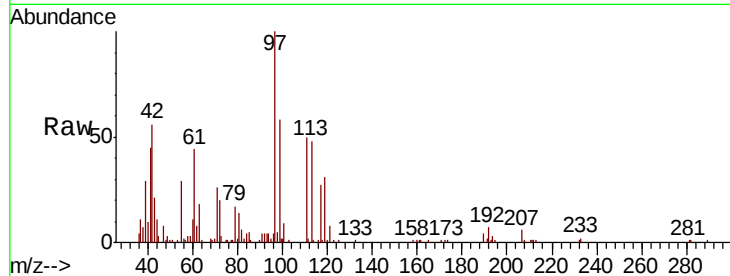




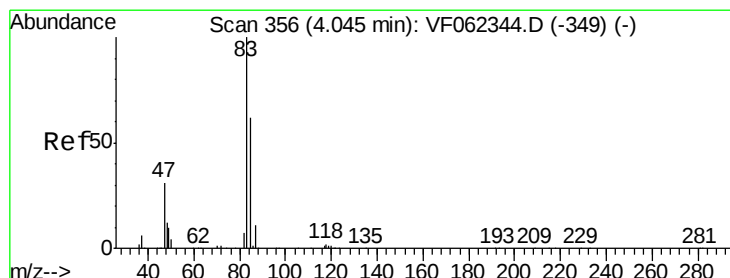
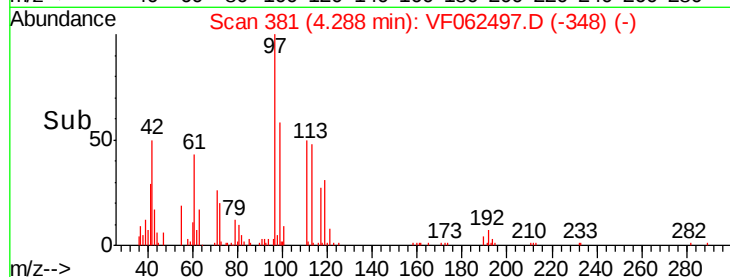
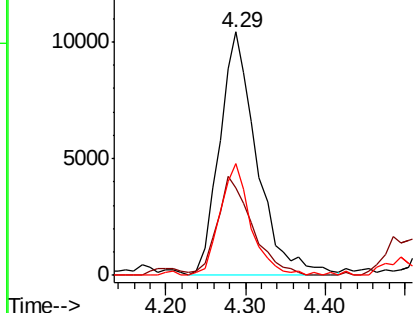
#29
Tetrahydrofuran
Concen: 95.323 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.03 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion: 42 Resp: 34248
Ion Ratio Lower Upper
42 100
72 38.1 31.4 47.0
71 38.1 31.7 47.5

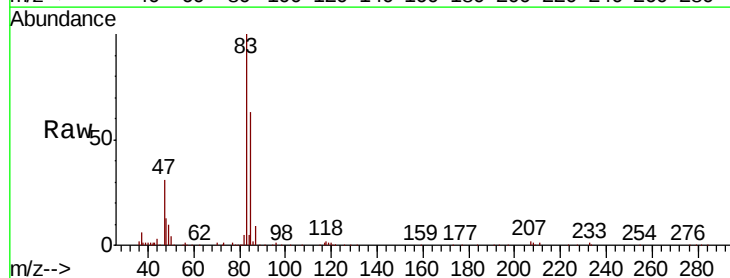


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

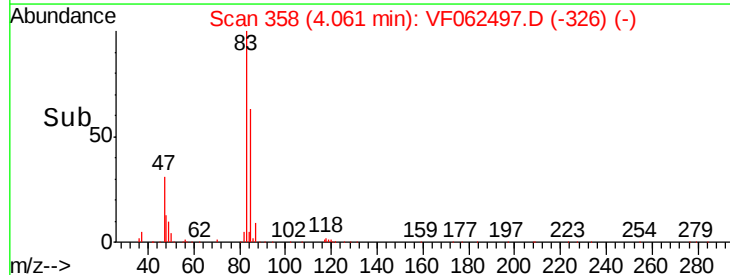
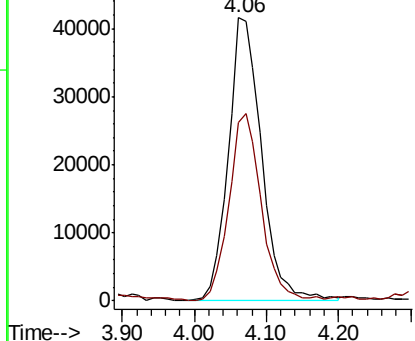


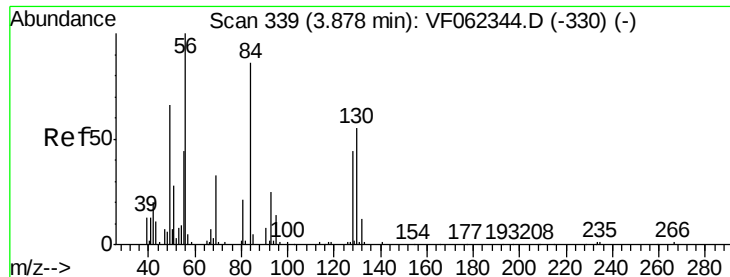
#30
Chloroform
Concen: 23.745 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 83 Resp: 133578
Ion Ratio Lower Upper
83 100
85 63.1 49.6 74.4



Abundance Ion 82.90 (82.60 to 83.60): VF0
Ion 84.90 (84.60 to 85.60): VF0

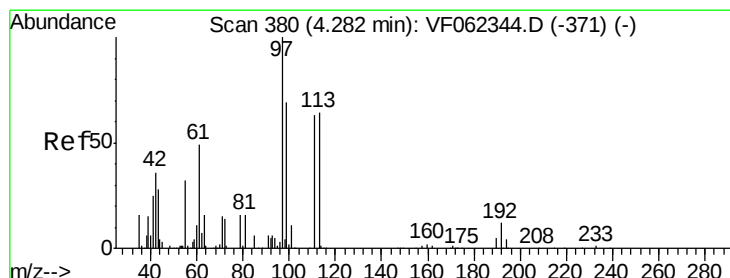
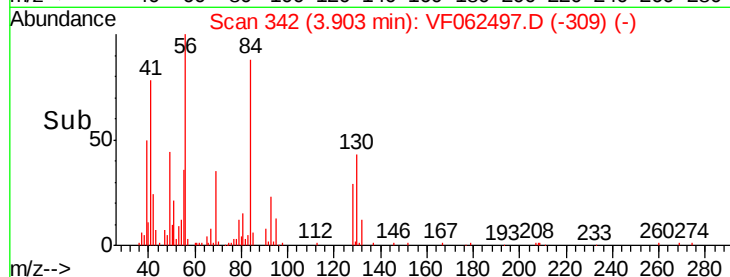
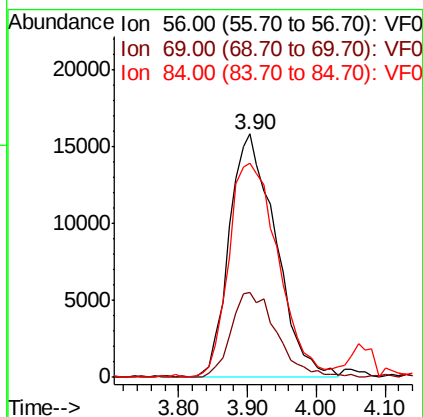
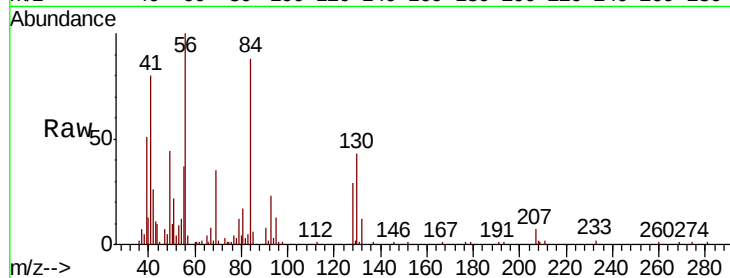




#31
Cyclohexane
Concen: 22.275 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.03 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

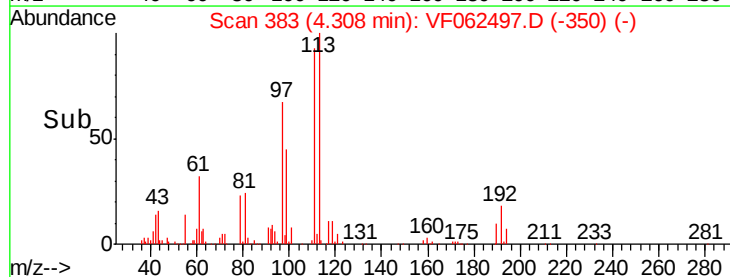
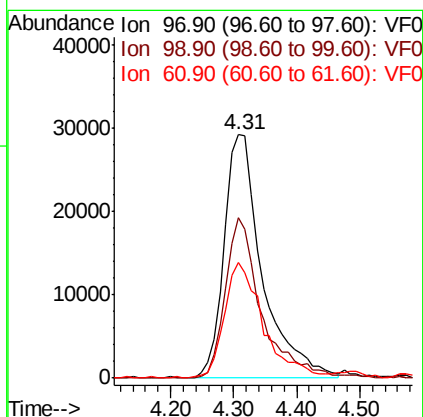
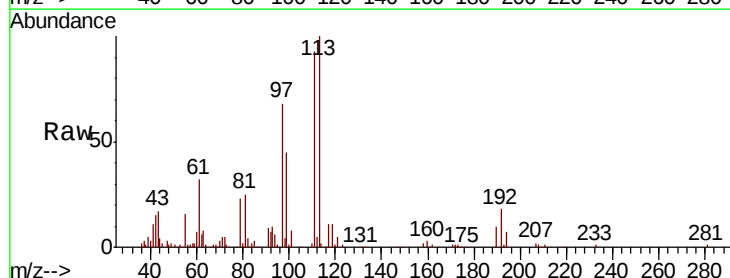
Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

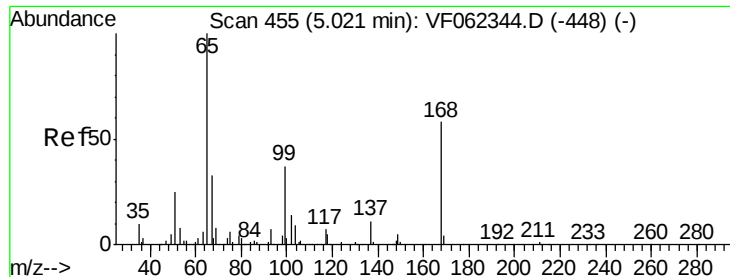
Tot Ion: 56 Resp: 74031
Ion Ratio Lower Upper
56 100
69 34.9 26.4 39.6
84 88.2 69.0 103.6



#32
1,1,1-Trichloroethane
Concen: 25.426 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.03 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 97 Resp: 122590
Ion Ratio Lower Upper
97 100
99 62.6 52.6 78.8
61 48.4 39.4 59.0





#33

1,2-Dichloroethane-d4

Concen: 49.898 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

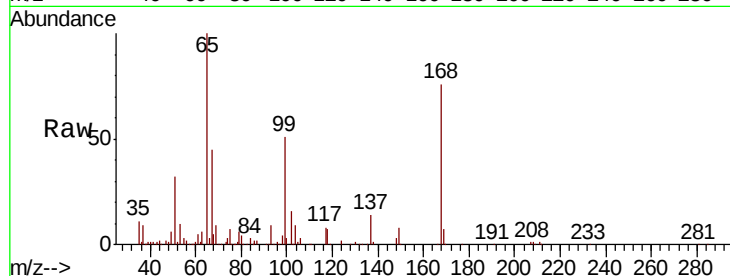
VF0512SBS01

Tot Ion: 65 Resp: 153485

Ion Ratio Lower Upper

65 100

67 47.6 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

5.05

60000

50000

40000

30000

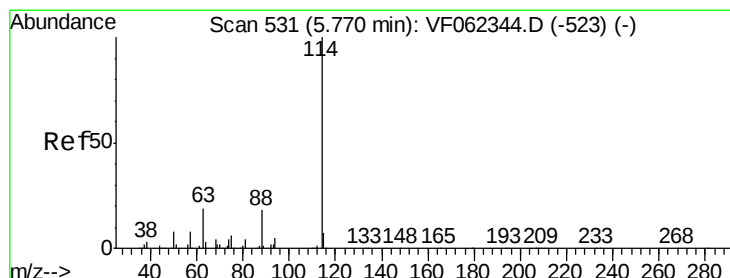
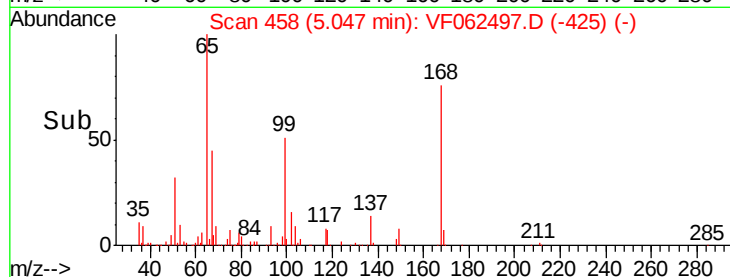
20000

10000

0

4.90 5.00 5.10 5.20 5.30

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

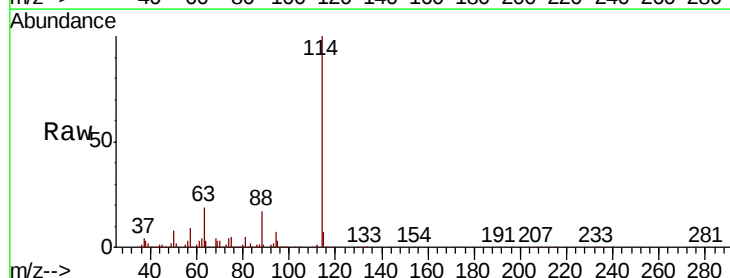
Tgt Ion: 114 Resp: 421894

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.4

88 17.4 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

200000

150000

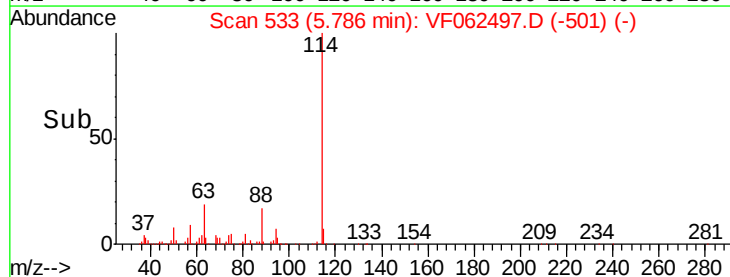
100000

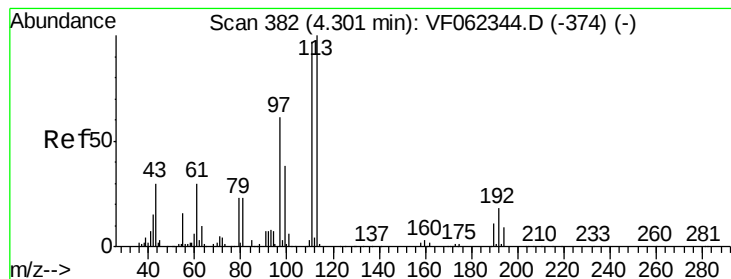
50000

0

5.60 5.70 5.80 5.90 6.00

Time-->





#35

Dibromofluoromethane

Concen: 54.459 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.03 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

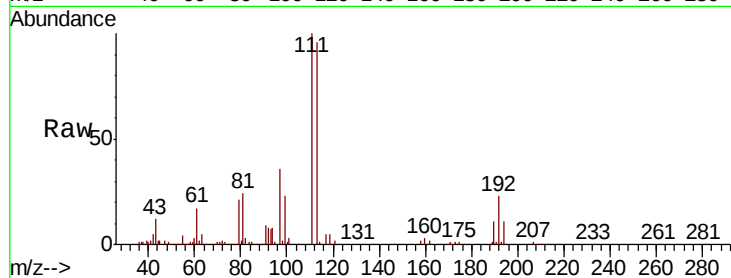
Tot Ion:113 Resp: 183047

Ion Ratio Lower Upper

113 100

111 103.2 79.4 119.0

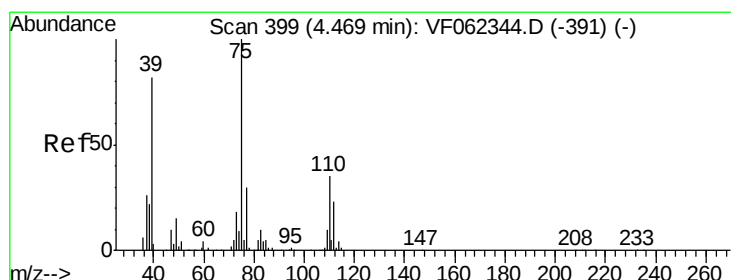
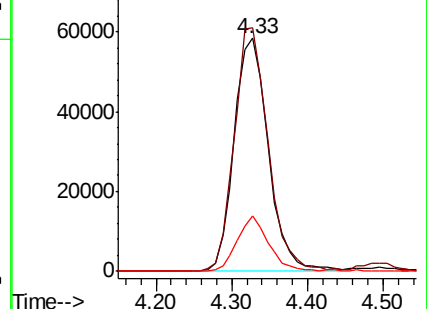
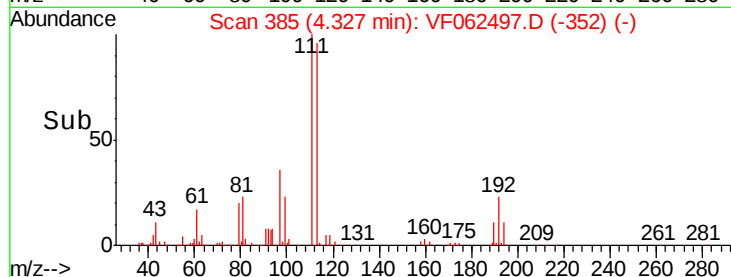
192 21.6 16.0 24.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 21.716 ug/l

RT: 4.49 min Scan# 402

Delta R.T. 0.03 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

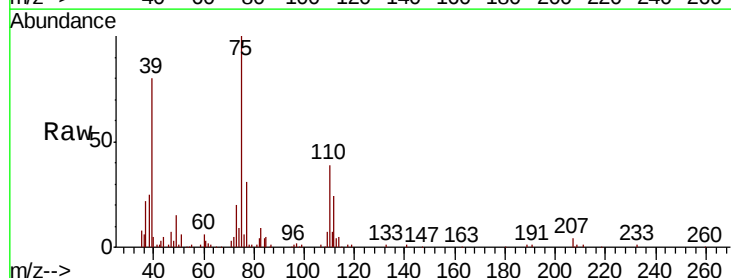
Tgt Ion: 75 Resp: 78702

Ion Ratio Lower Upper

75 100

110 36.9 17.2 51.5

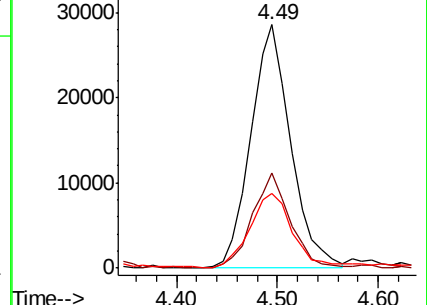
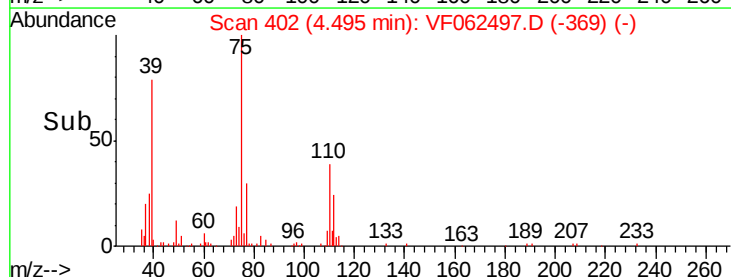
77 32.1 25.2 37.8

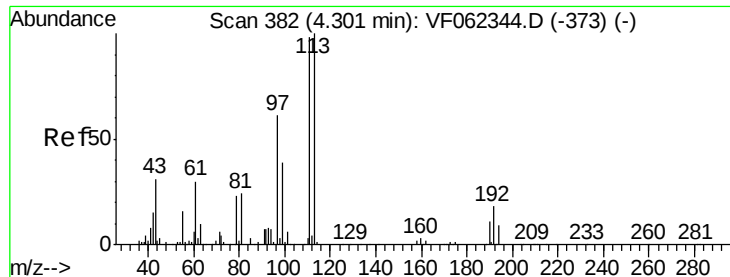


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VF0

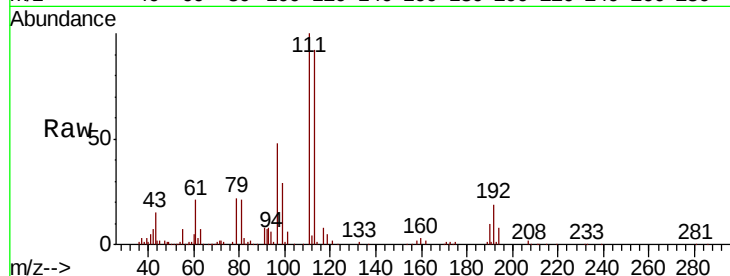




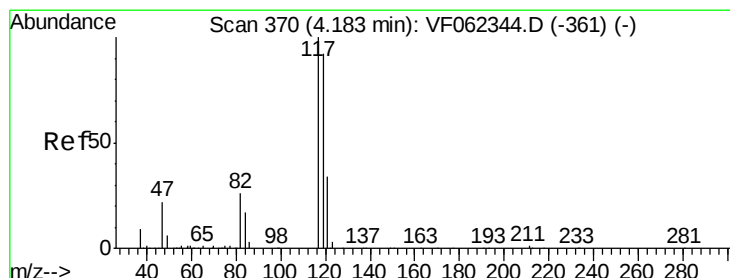
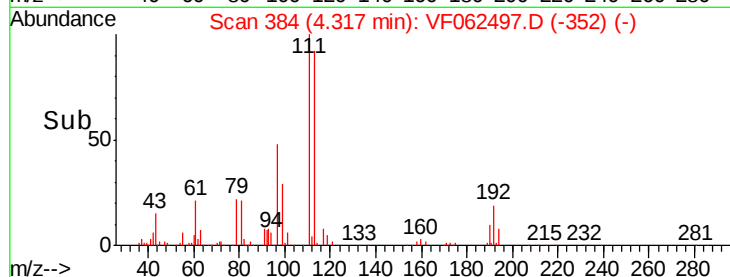
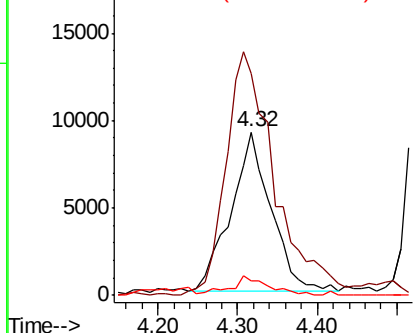
#37
Ethyl Acetate
Concen: 19.726 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion: 43 Resp: 32341
Ion Ratio Lower Upper
43 100
61 183.3 0.0 0.0#
70 11.1 8.2 12.2

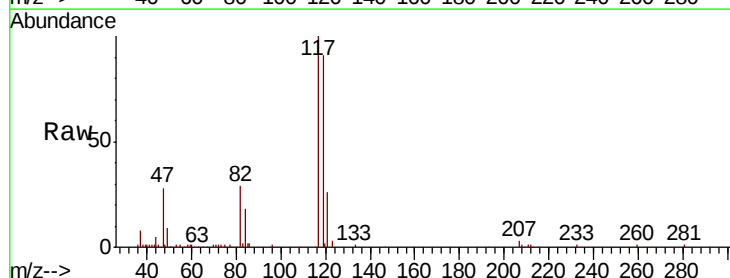


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0

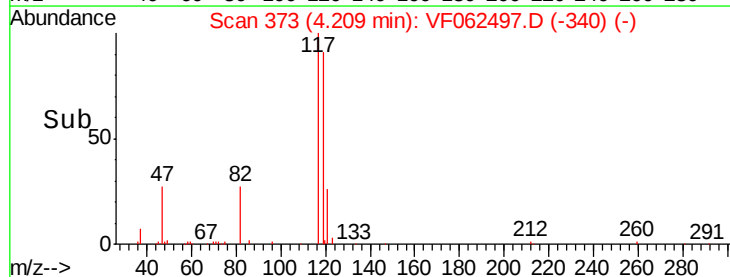
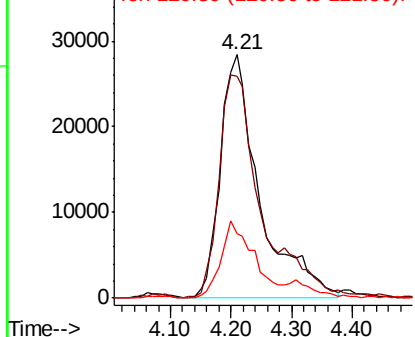


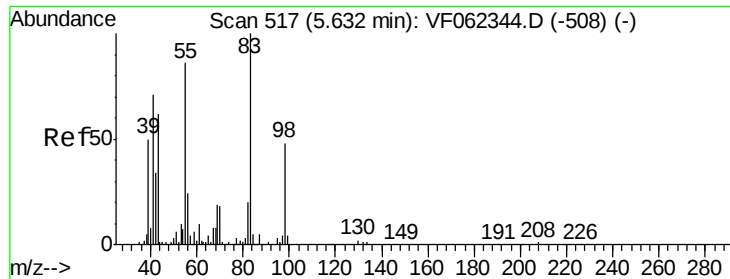
#38
Carbon Tetrachloride
Concen: 33.391 ug/l
RT: 4.21 min Scan# 373
Delta R.T. 0.03 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 117 Resp: 128994
Ion Ratio Lower Upper
117 100
119 90.7 73.4 110.2
121 26.2 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

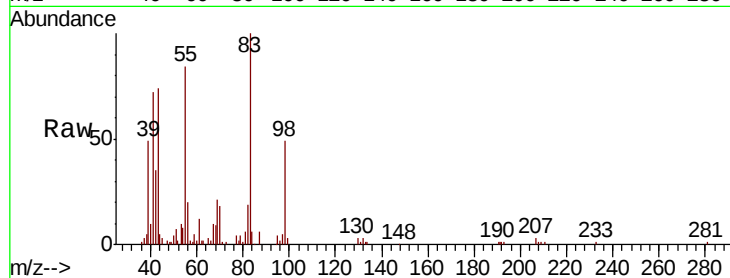




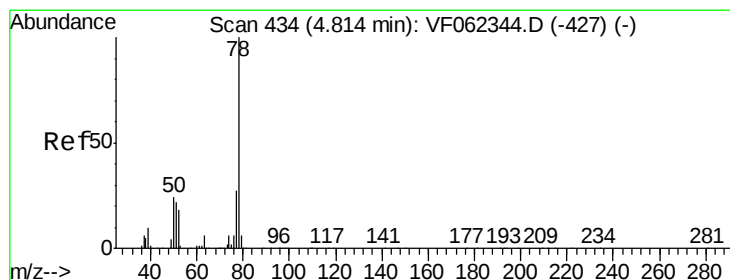
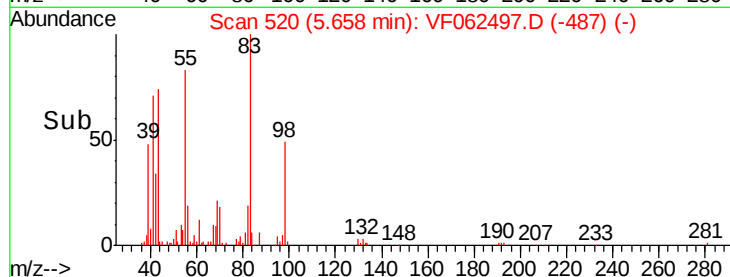
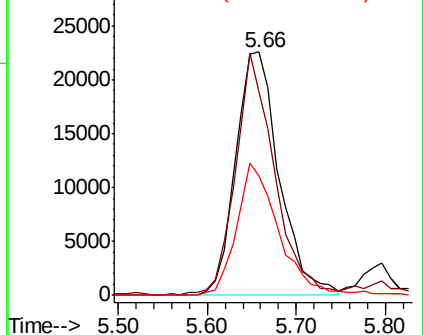
#39
Methvlcvclohexane
Concen: 21.059 ug/l
RT: 5.66 min Scan# 520
Delta R.T. 0.03 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion: 83 Resp: 76546
Ion Ratio Lower Upper
83 100
55 82.4 69.0 103.6
98 49.3 38.6 58.0

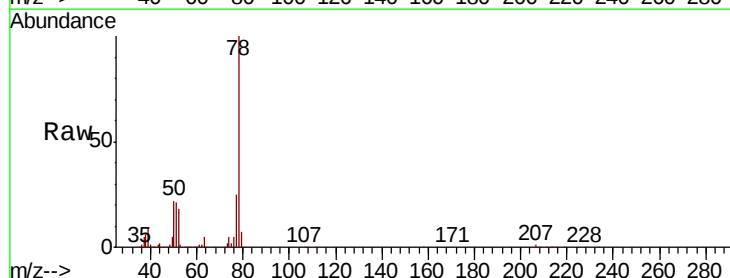


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

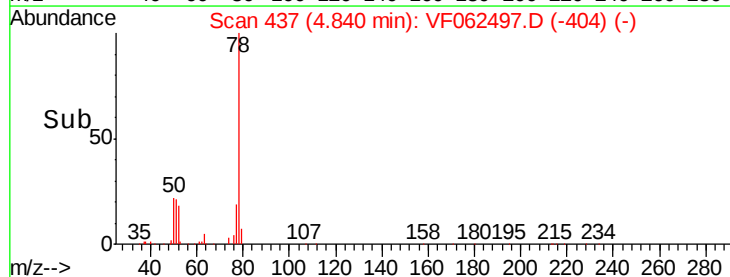
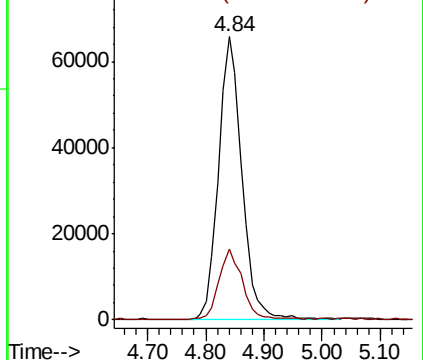


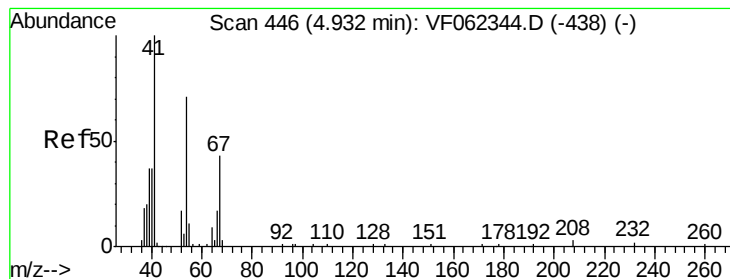
#40
Benzene
Concen: 23.076 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.03 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 78 Resp: 184167
Ion Ratio Lower Upper
78 100
77 24.9 21.6 32.4



Abundance Ion 78.00 (77.70 to 78.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 17.951 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

Tot Ion: 41 Resp: 15600

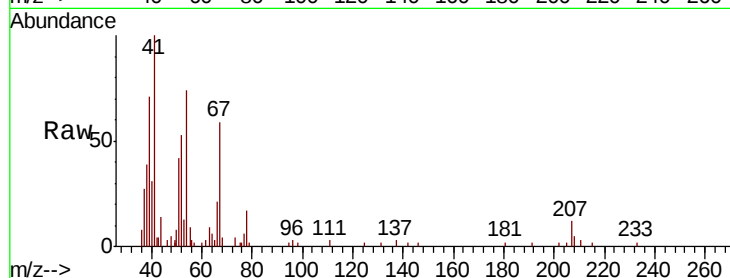
Ion Ratio Lower Upper

41 100

39 81.8 54.3 81.5#

67 49.9 37.8 56.8

52 0.0 58.2 87.4#

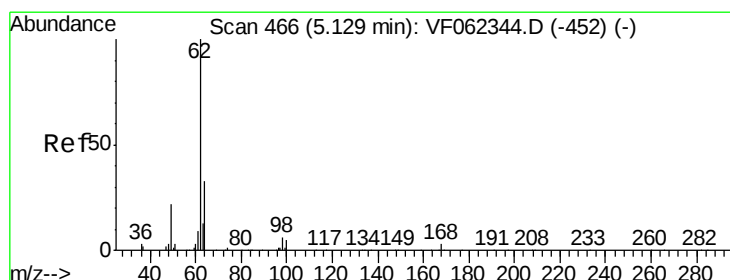
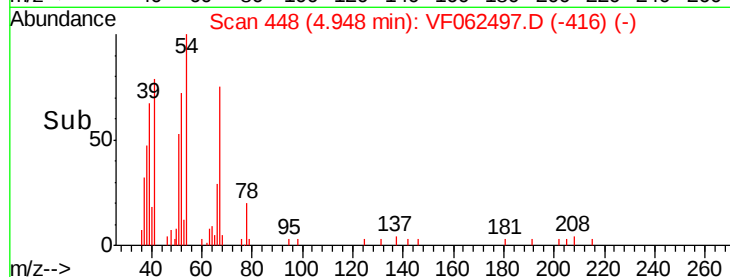
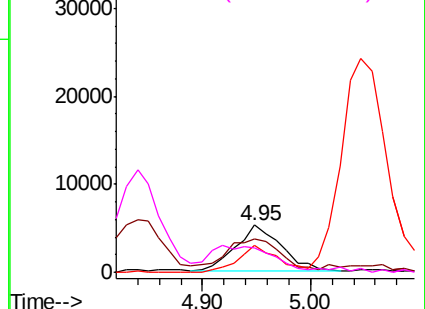


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 23.241 ug/l

RT: 5.15 min Scan# 468

Delta R.T. 0.02 min

Lab File: VF062497.D

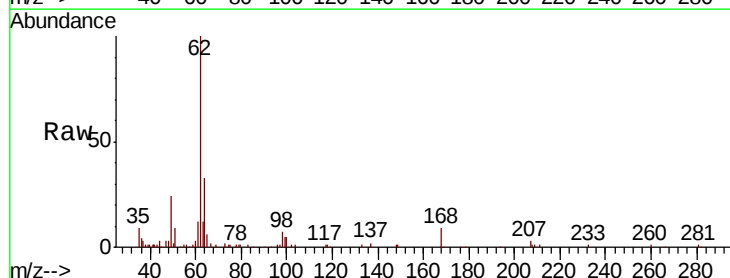
Acq: 12 May 2019 12:28

Tgt Ion: 62 Resp: 77576

Ion Ratio Lower Upper

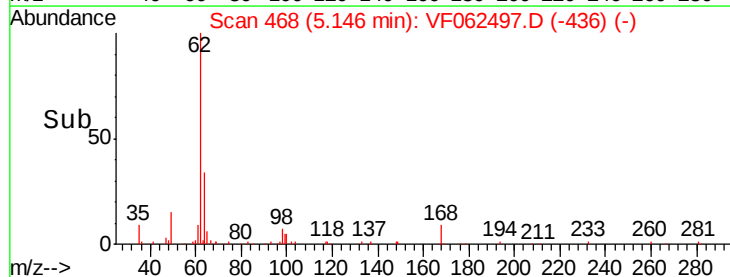
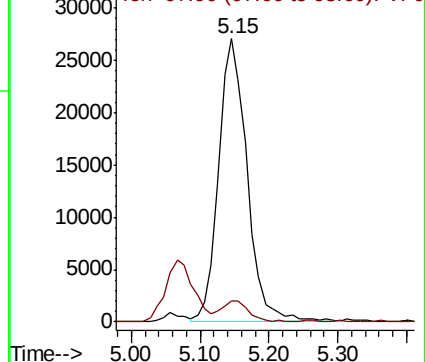
62 100

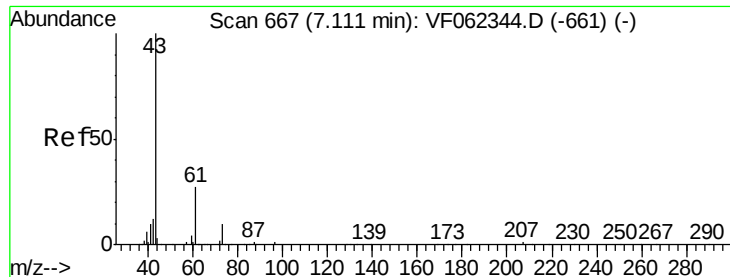
98 7.0 0.0 12.4



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



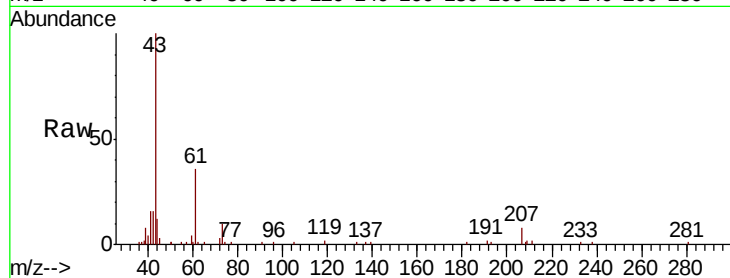


#43

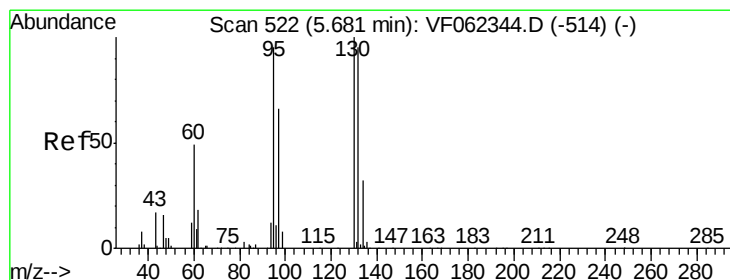
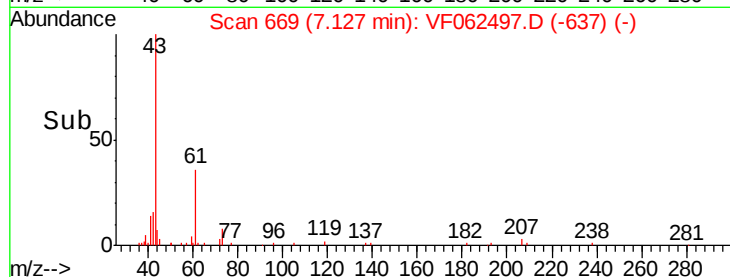
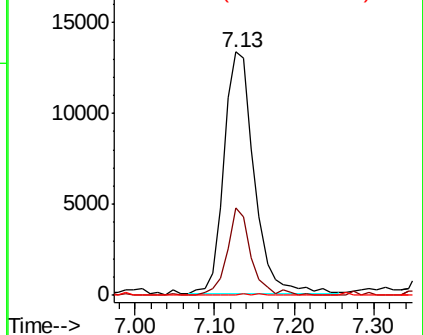
Isopropyl Acetate
 Concen: 21.424 ug/l
 RT: 7.13 min Scan# 669
 Delta R.T. 0.02 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

Tot Ion: 43 Resp: 35317
 Ion Ratio Lower Upper
 43 100
 61 28.8 22.8 34.2
 87 0.4 0.6 1.0#



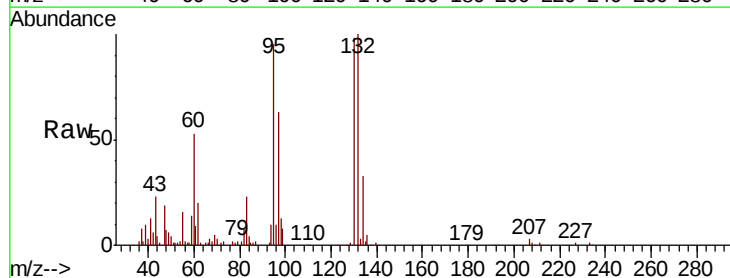
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



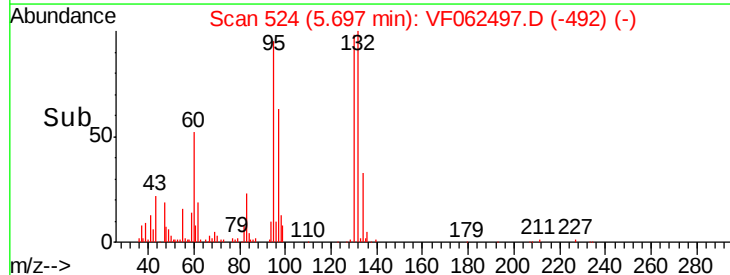
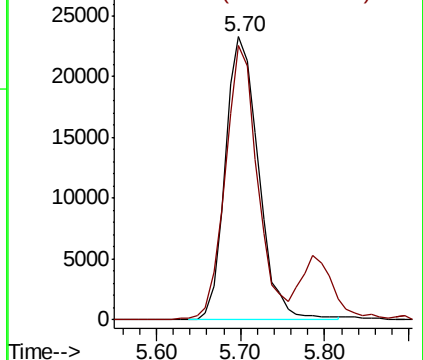
#44

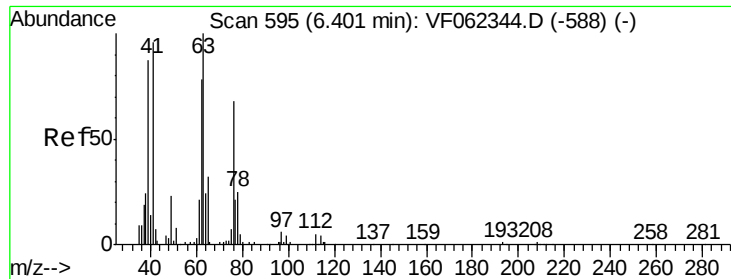
Trichloroethene
 Concen: 21.837 ug/l
 RT: 5.70 min Scan# 524
 Delta R.T. 0.02 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Tgt Ion: 130 Resp: 64021
 Ion Ratio Lower Upper
 130 100
 95 96.6 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 21.179 ug/l

RT: 6.42 min Scan# 597

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

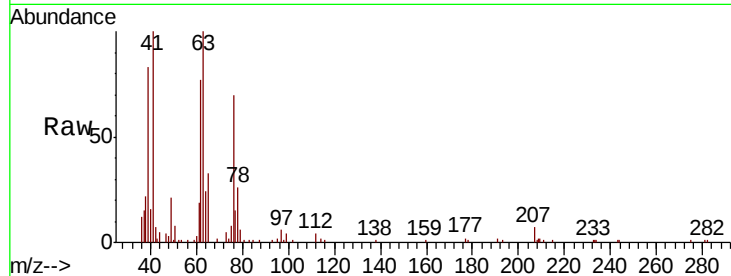
VF0512SBS01

Tot Ion: 63 Resp: 38284

Ion Ratio Lower Upper

63 100

65 33.2 25.6 38.4



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0

15000

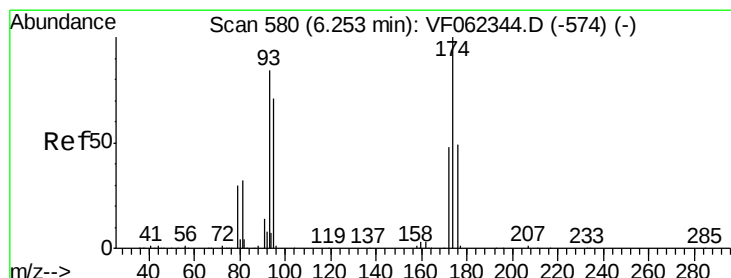
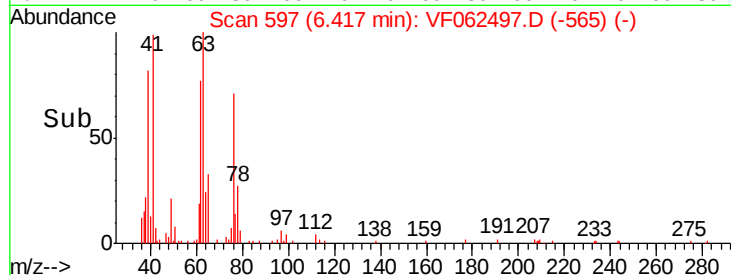
10000

5000

0

6.30 6.40 6.50

Time-->



#46

Dibromomethane

Concen: 23.432 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.03 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

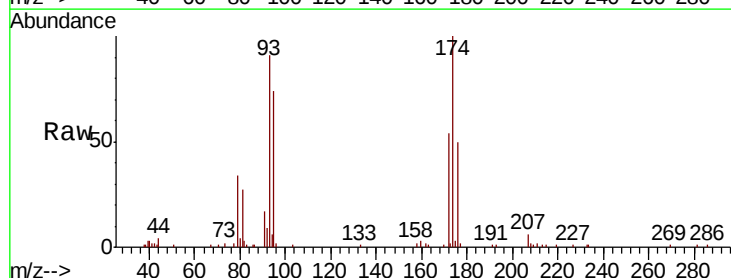
Tgt Ion: 93 Resp: 35120

Ion Ratio Lower Upper

93 100

95 78.3 68.4 102.6

174 115.1 99.6 149.4



Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V

20000

15000

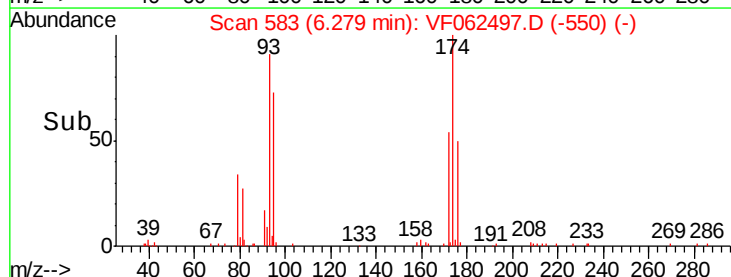
10000

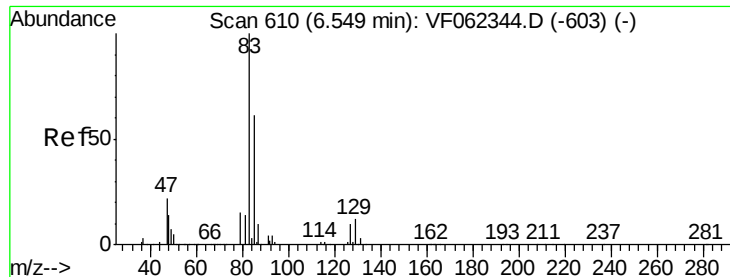
5000

0

6.20 6.30 6.40

Time-->





#47

Bromodichloromethane

Concen: 23.677 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

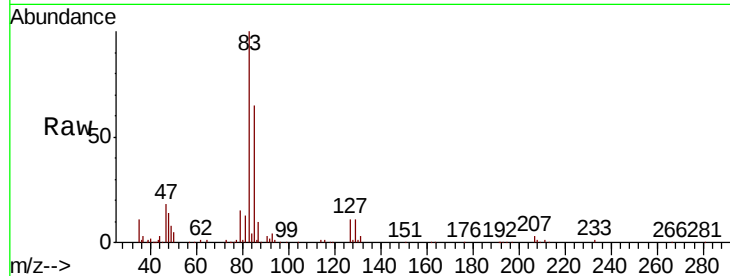
Tot Ion: 83 Resp: 88722

Ion Ratio Lower Upper

83 100

85 65.1 49.1 73.7

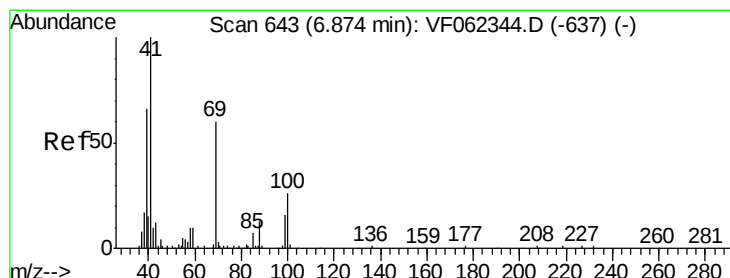
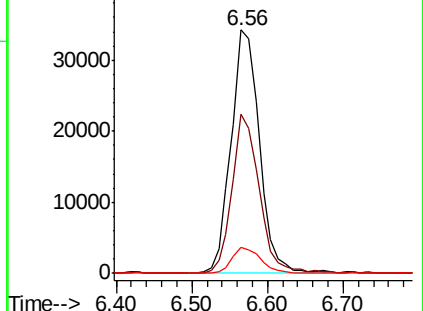
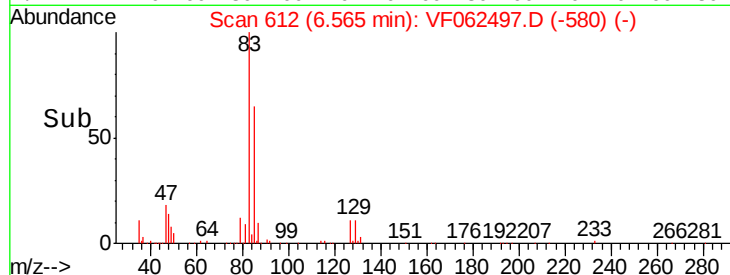
127 10.6 7.8 11.8



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 20.479 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

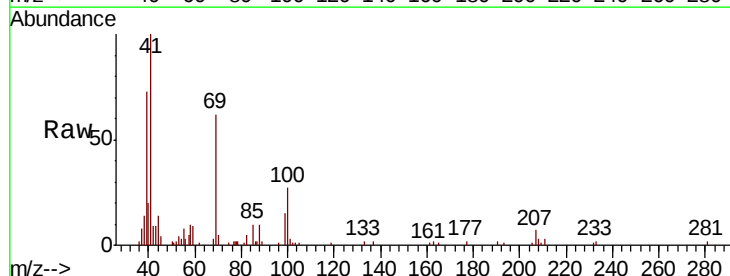
Tgt Ion: 41 Resp: 23857

Ion Ratio Lower Upper

41 100

69 59.6 48.6 72.8

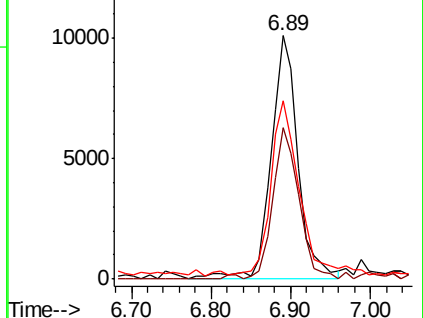
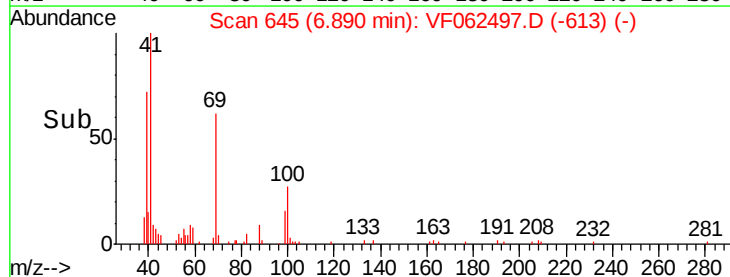
39 76.5 56.1 84.1

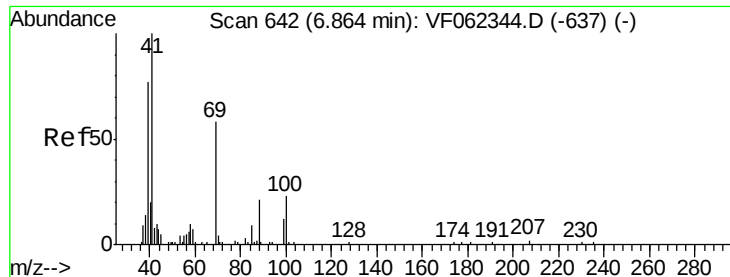


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 290.866 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.04 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

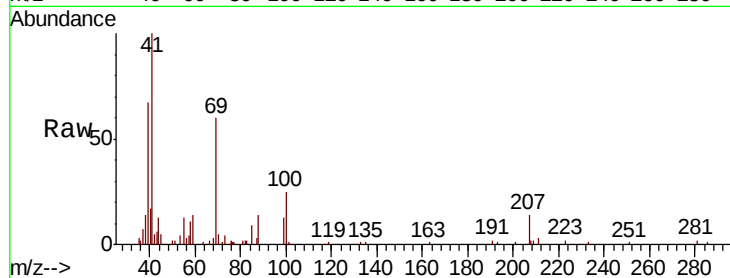
Tot Ion: 88 Resp: 3596

Ion Ratio Lower Upper

88 100

43 78.8 55.6 83.4

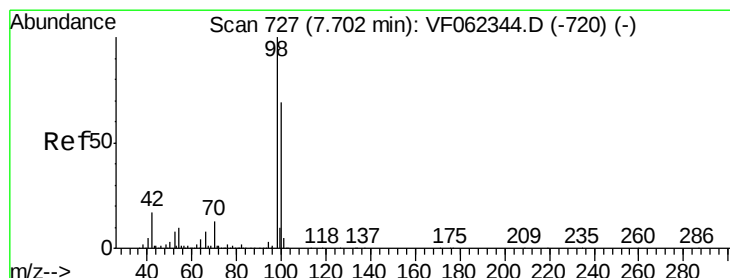
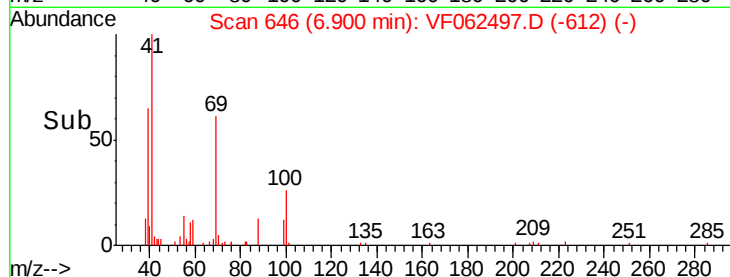
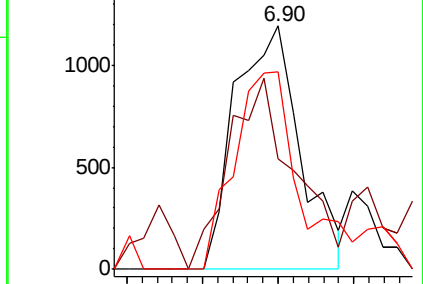
58 80.7 52.8 79.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 52.812 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.03 min

Lab File: VF062497.D

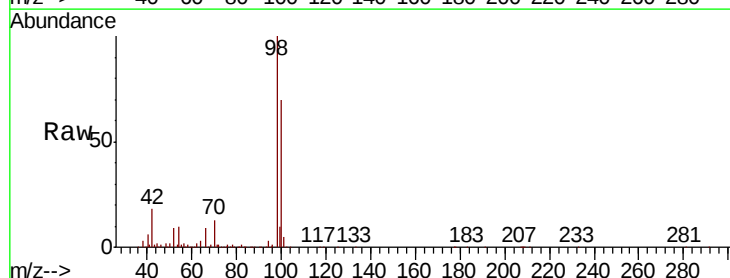
Acq: 12 May 2019 12:28

Tgt Ion: 98 Resp: 429688

Ion Ratio Lower Upper

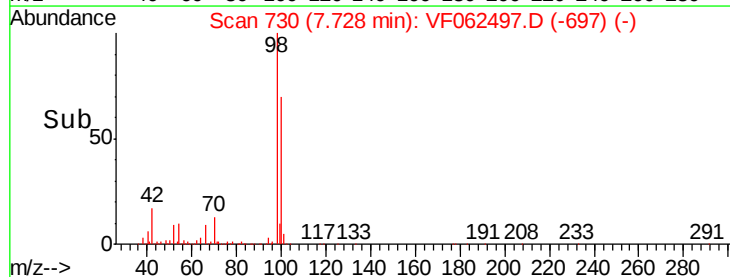
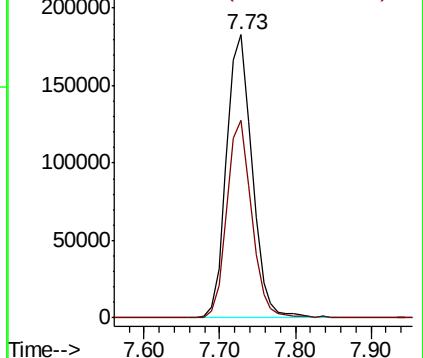
98 100

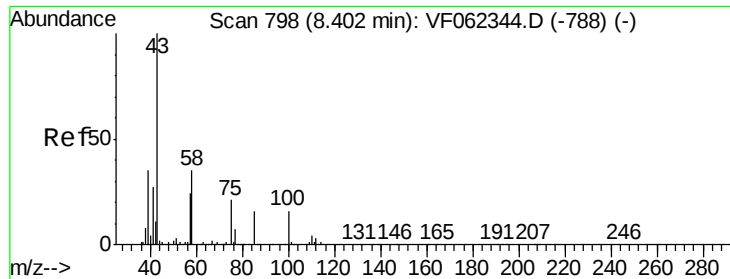
100 67.8 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 109.883 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

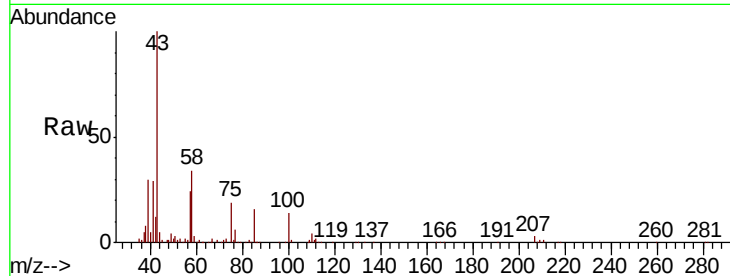
VF0512SBS01

Tot Ion: 43 Resp: 137258

Ion Ratio Lower Upper

43 100

58 34.2 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.42

60000

50000

40000

30000

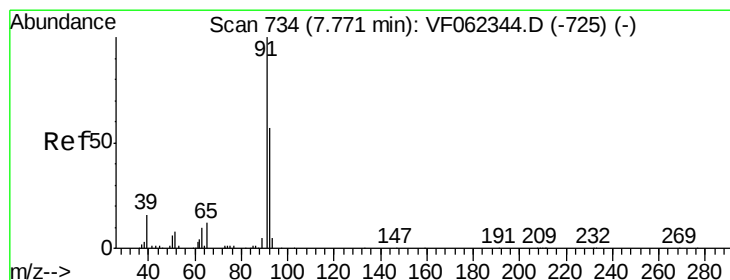
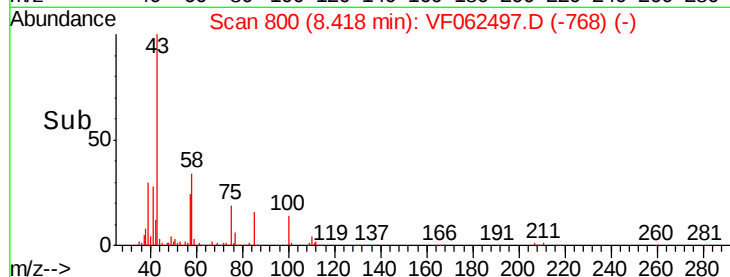
20000

10000

0

8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 23.645 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.03 min

Lab File: VF062497.D

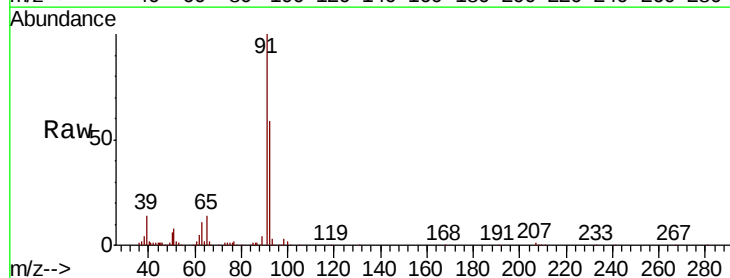
Acq: 12 May 2019 12:28

Tgt Ion: 92 Resp: 116413

Ion Ratio Lower Upper

92 100

91 171.5 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.80

100000

80000

60000

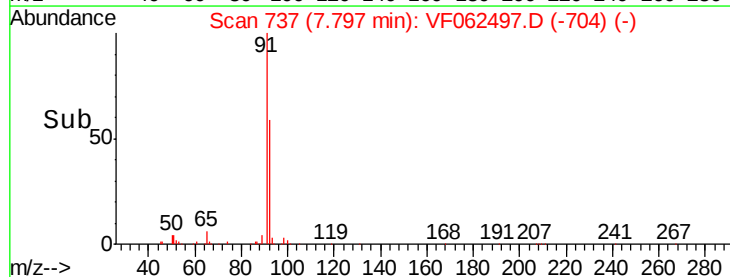
40000

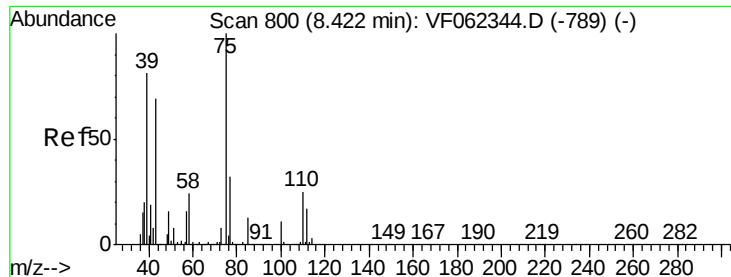
20000

0

7.70 7.80 7.90

Time-->

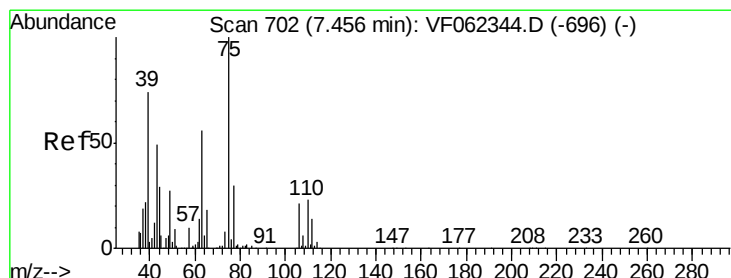
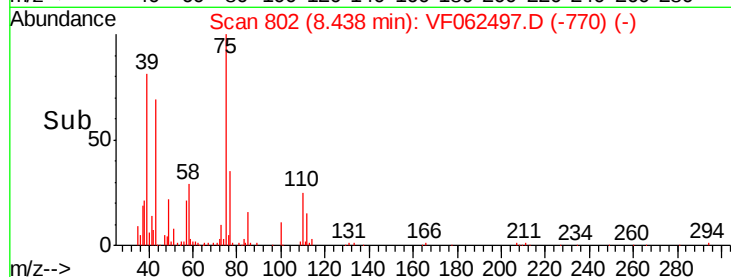
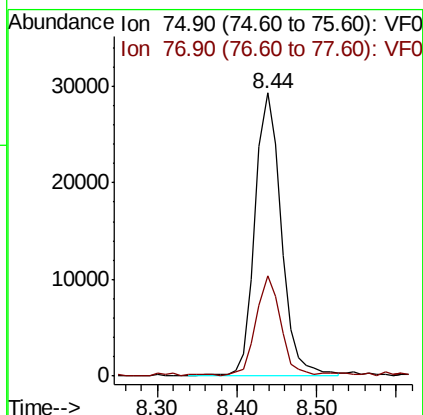
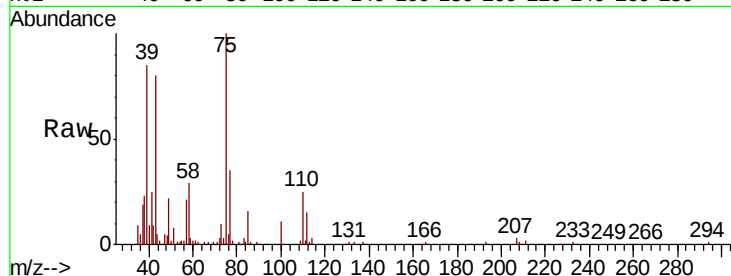




#53
t-1,3-Dichloropropene
Concen: 23.525 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

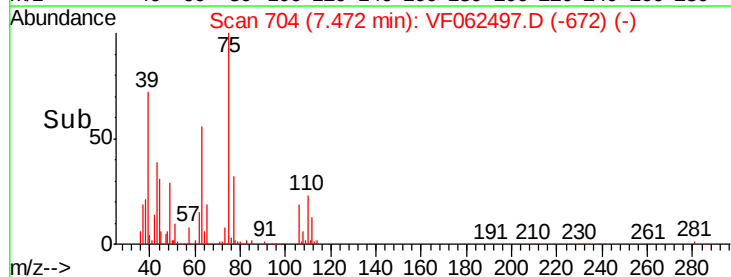
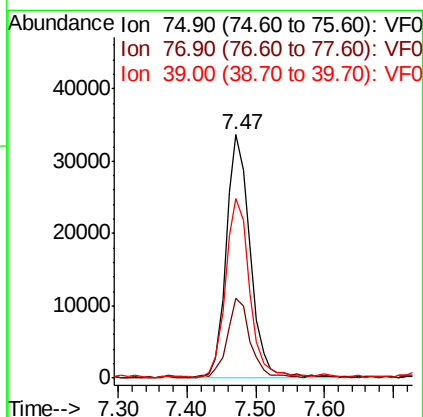
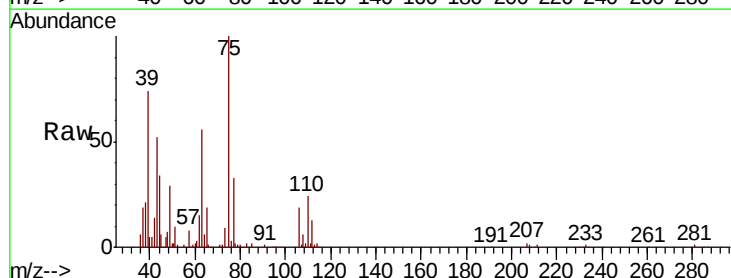
Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

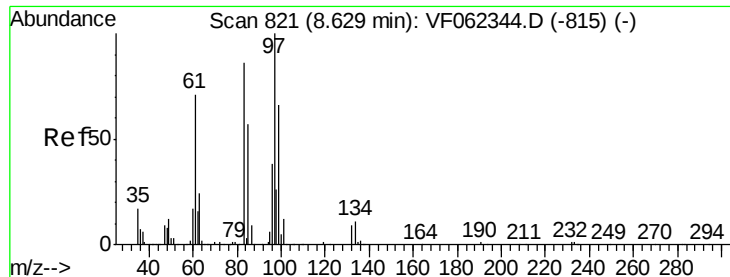
Tot Ion: 75 Resp: 66674
Ion Ratio Lower Upper
75 100
77 34.7 25.4 38.0



#54
cis-1,3-Dichloropropene
Concen: 24.649 ug/l
RT: 7.47 min Scan# 704
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 75 Resp: 81301
Ion Ratio Lower Upper
75 100
77 32.3 24.0 36.0
39 73.1 58.7 88.1





#55

1,1,2-Trichloroethane

Concen: 22.248 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.03 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

Tot Ion: 97 Resp: 34772

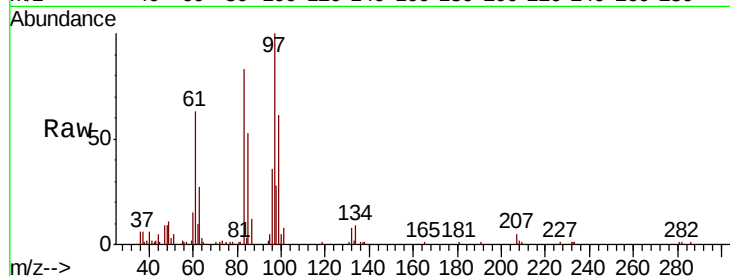
Ion Ratio Lower Upper

97 100

83 82.7 68.5 102.7

85 52.8 45.4 68.2

99 59.8 52.7 79.1

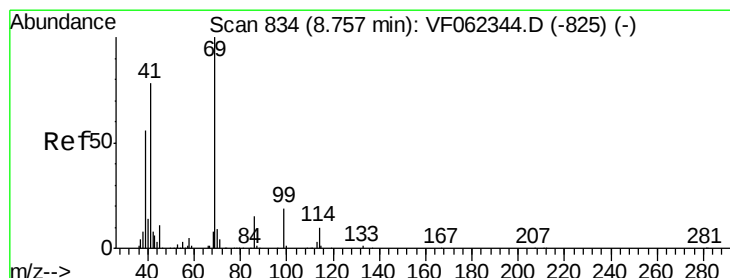
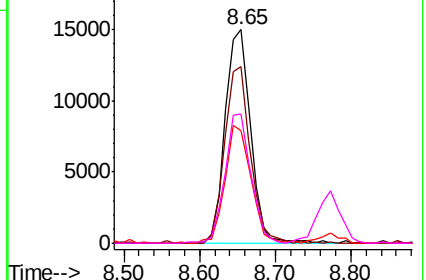
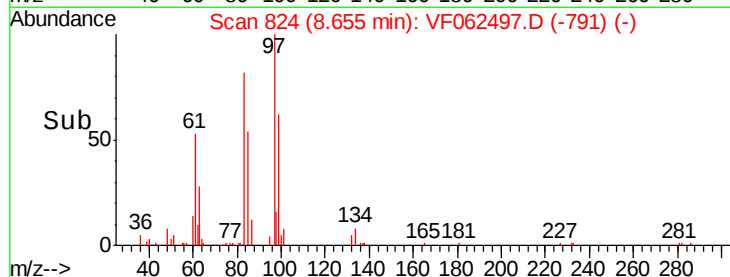


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#56

Ethyl methacrylate

Concen: 20.228 ug/l

RT: 8.77 min Scan# 836

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

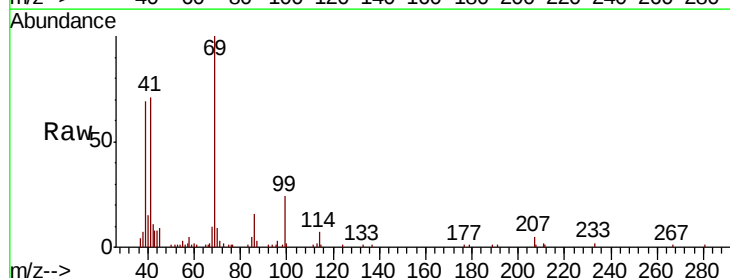
Tgt Ion: 69 Resp: 33373

Ion Ratio Lower Upper

69 100

41 84.9 66.3 99.5

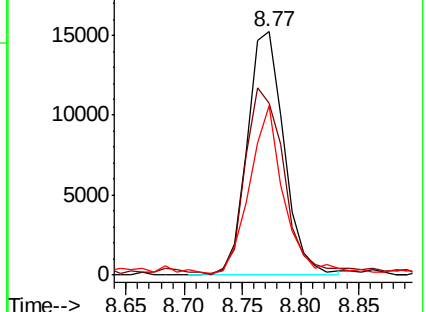
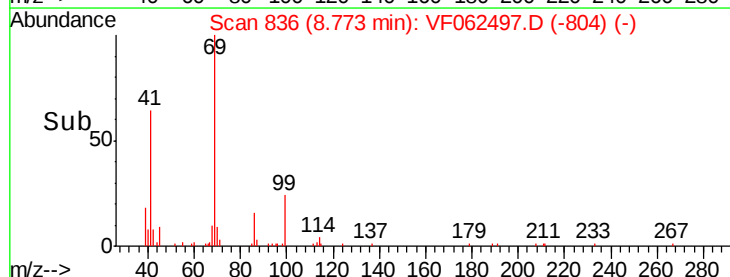
39 63.8 50.1 75.1

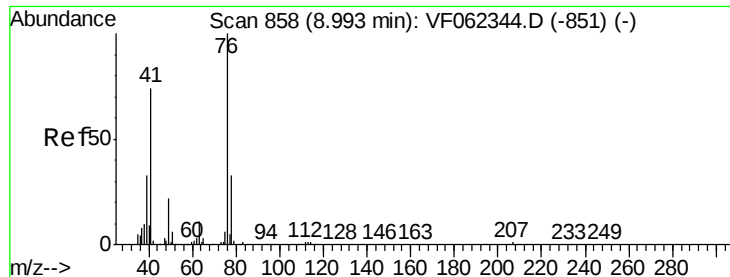


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 23.652 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

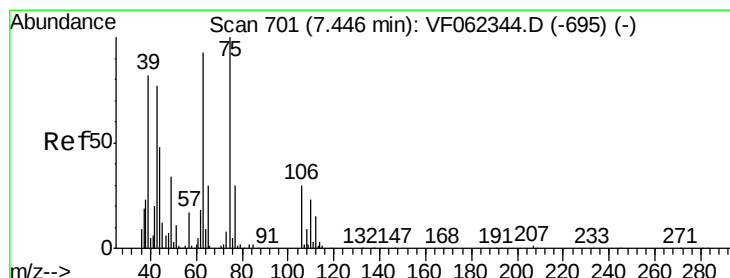
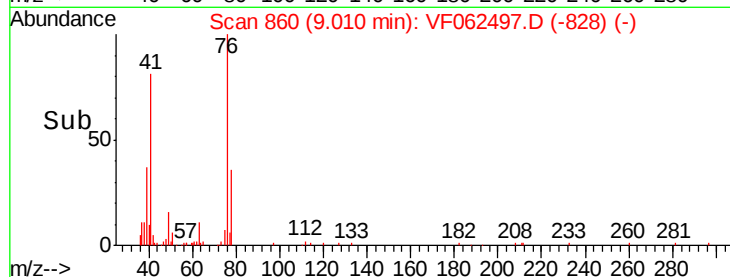
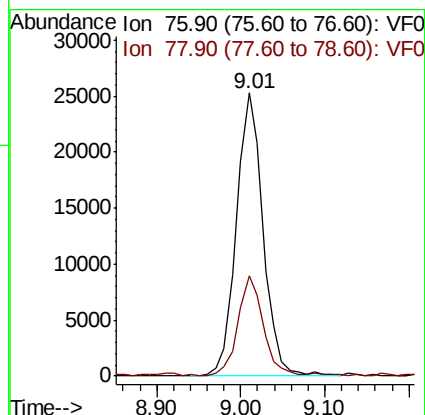
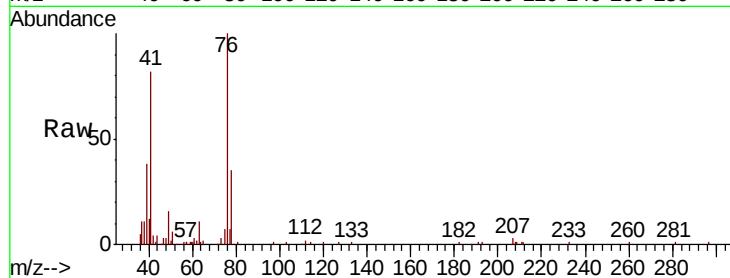
VF0512SBS01

Tot Ion: 76 Resp: 55839

Ion Ratio Lower Upper

76 100

78 33.7 26.4 39.6



#58

2-Chloroethyl Vinyl ether

Concen: 96.969 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.02 min

Lab File: VF062497.D

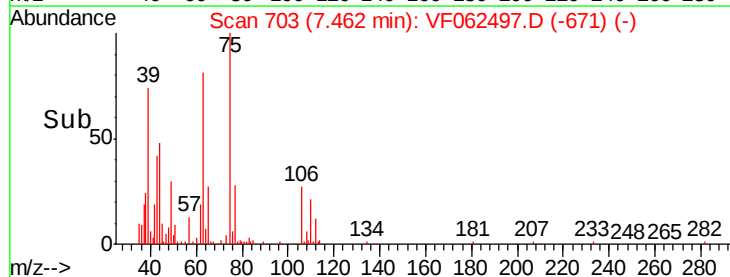
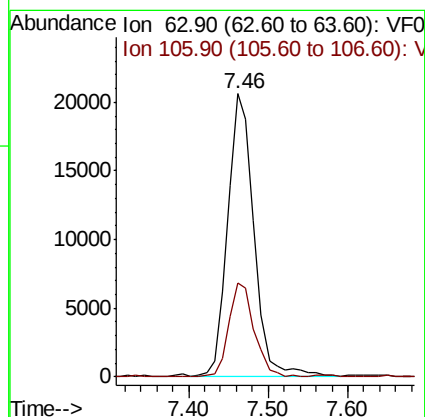
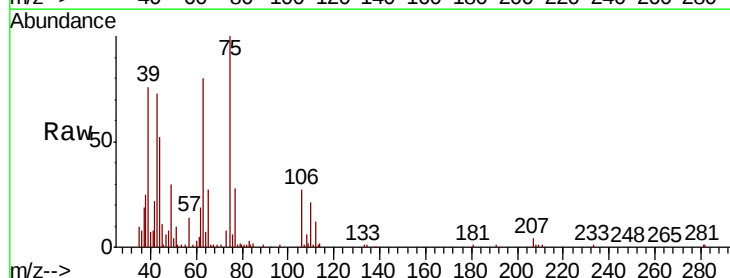
Acq: 12 May 2019 12:28

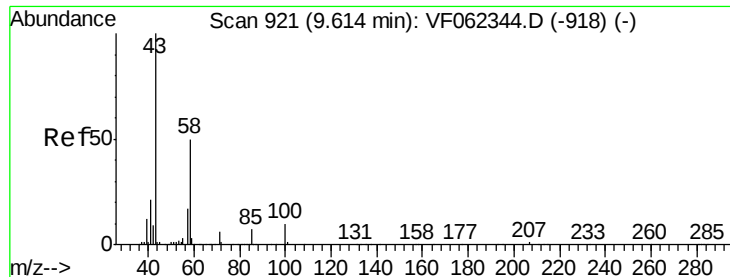
Tgt Ion: 63 Resp: 48098

Ion Ratio Lower Upper

63 100

106 31.8 25.8 38.8

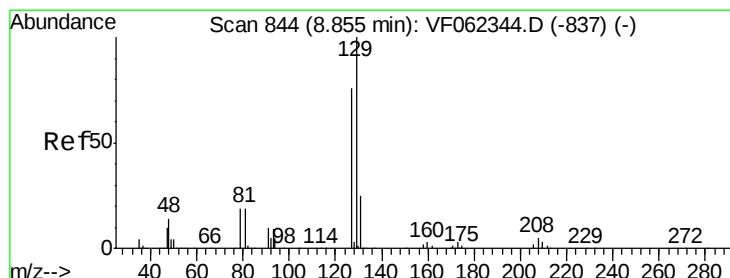
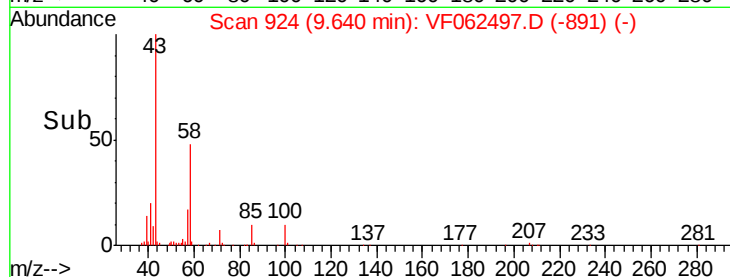
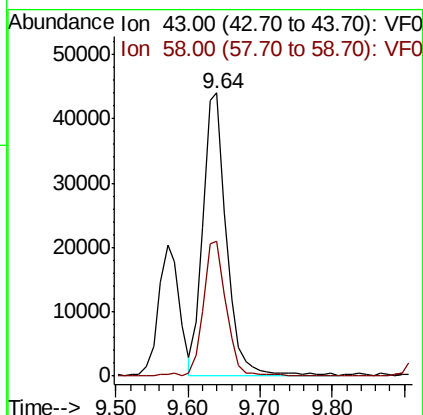
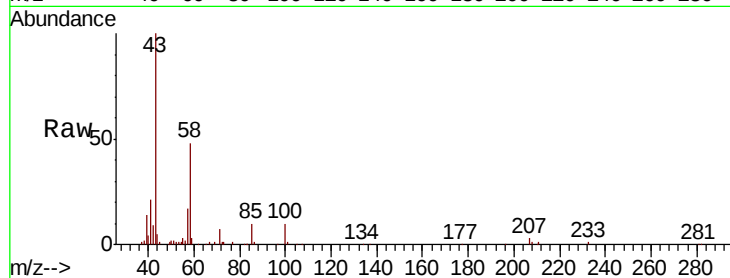




#59
2-Hexanone
Concen: 115.567 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

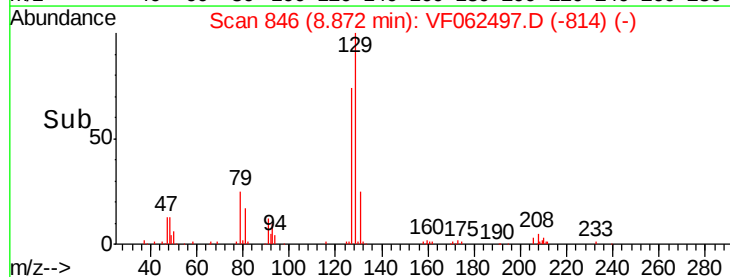
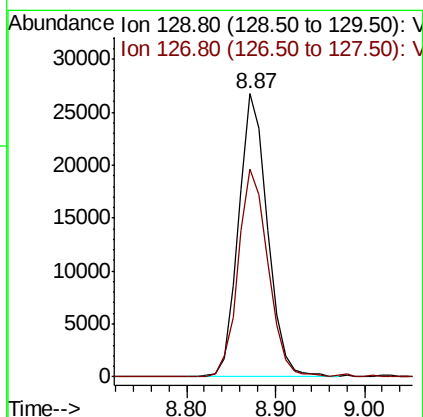
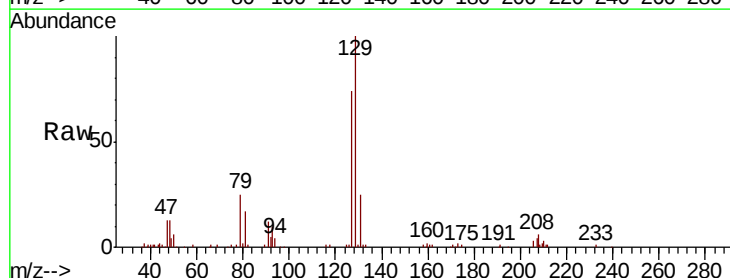
Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

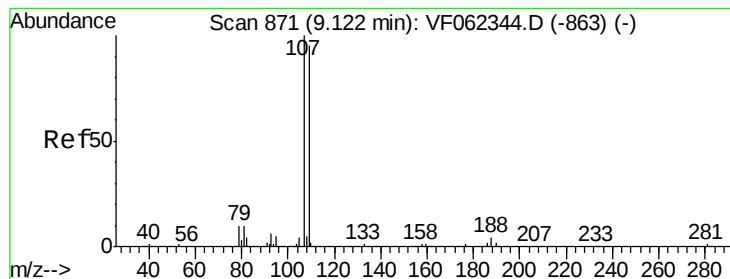
Tot Ion: 43 Resp: 99838
Ion Ratio Lower Upper
43 100
58 47.2 24.3 73.0



#60
Dibromochloromethane
Concen: 23.599 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 129 Resp: 60323
Ion Ratio Lower Upper
129 100
127 75.7 38.5 115.3





#61

1,2-Dibromoethane

Concen: 21.770 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.03 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

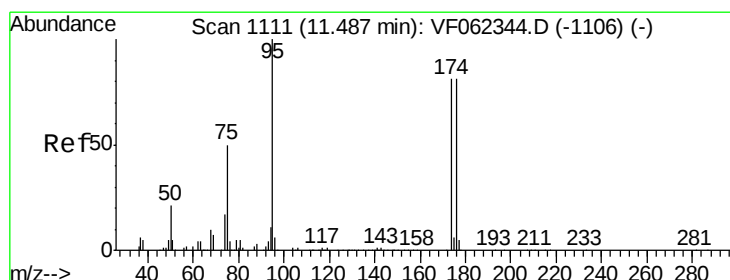
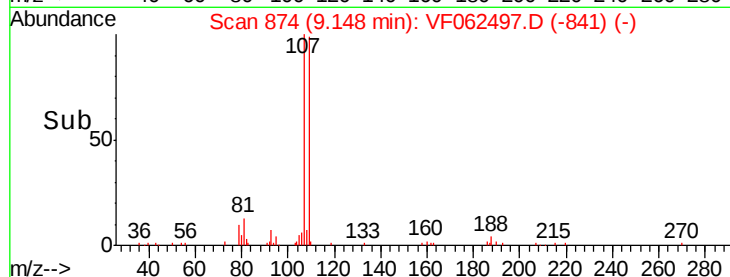
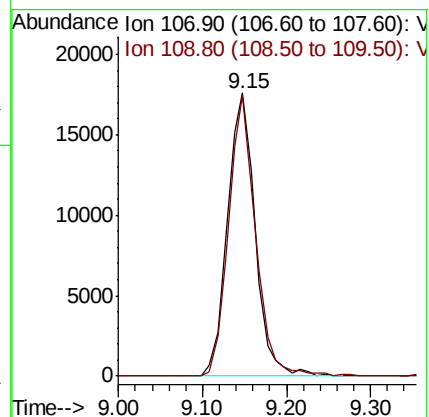
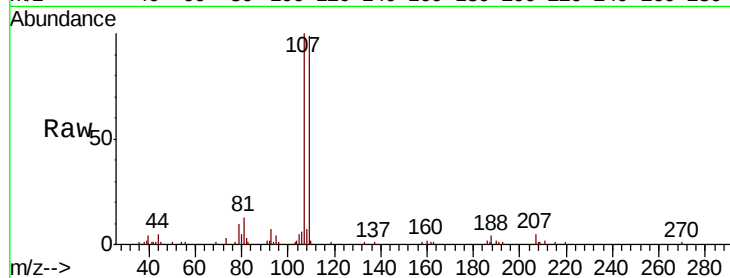
VF0512SBS01

Tot Ion:107 Resp: 39991

Ion Ratio Lower Upper

107 100

109 96.8 75.2 112.8



#62

4-Bromofluorobenzene

Concen: 54.837 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

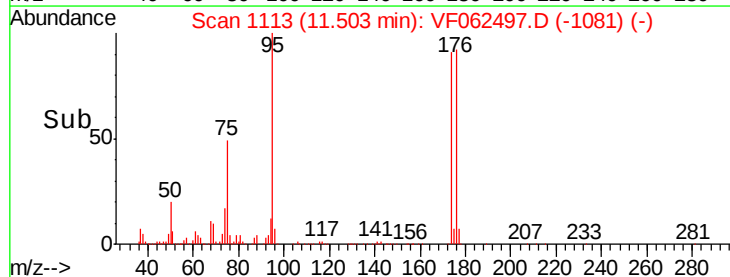
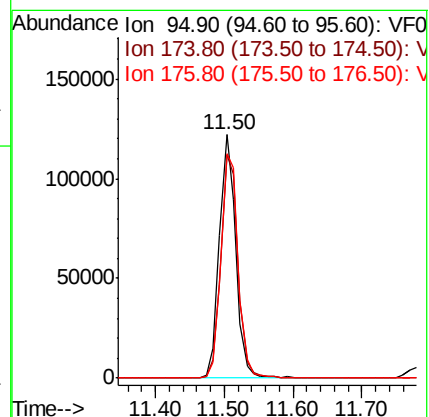
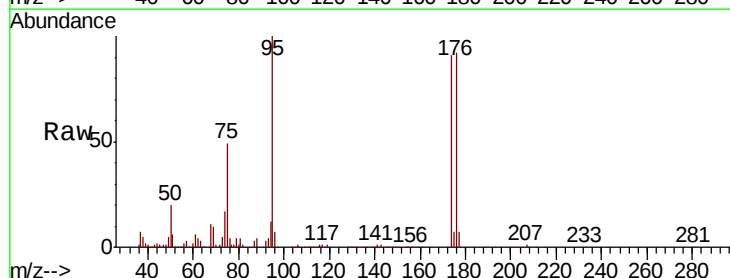
Tgt Ion: 95 Resp: 201294

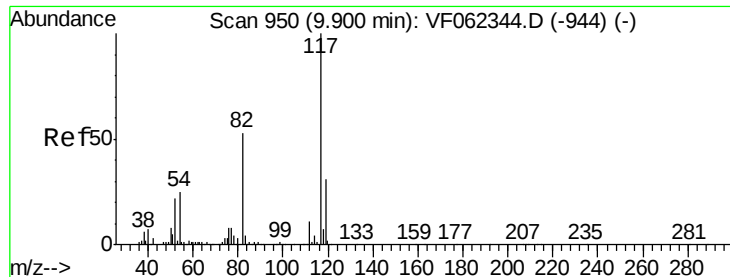
Ion Ratio Lower Upper

95 100

174 95.7 0.0 191.8

176 97.0 0.0 193.2

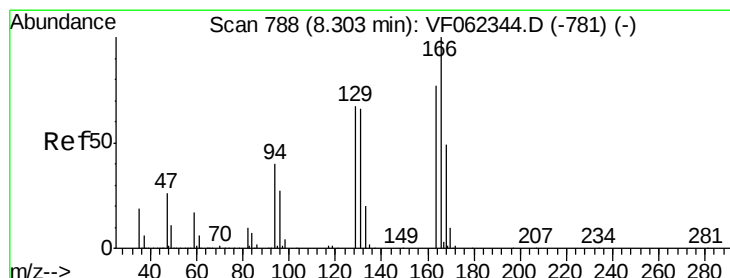
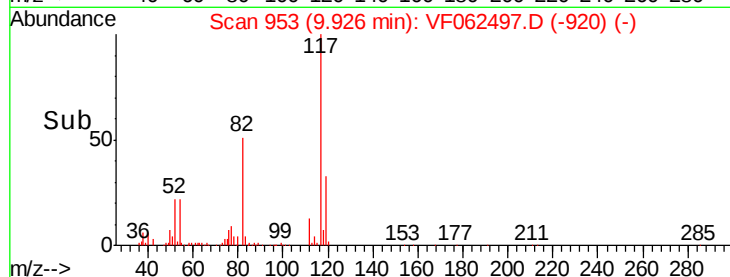
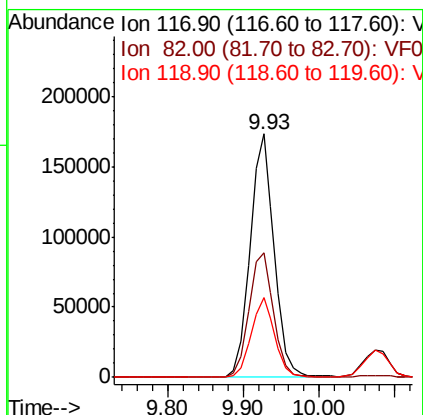
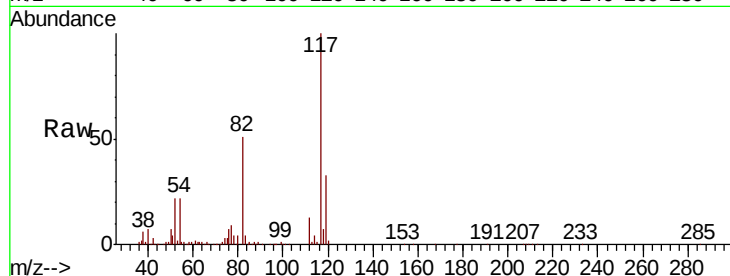




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

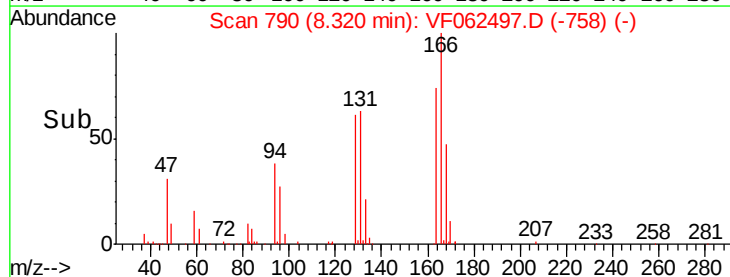
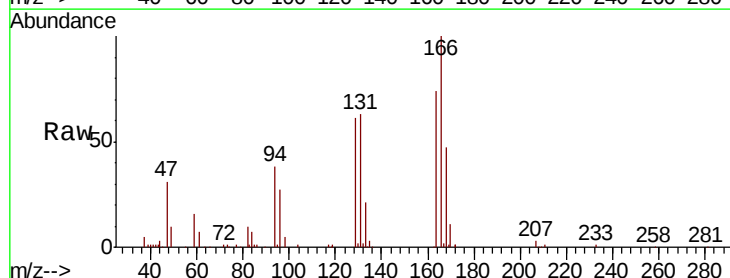
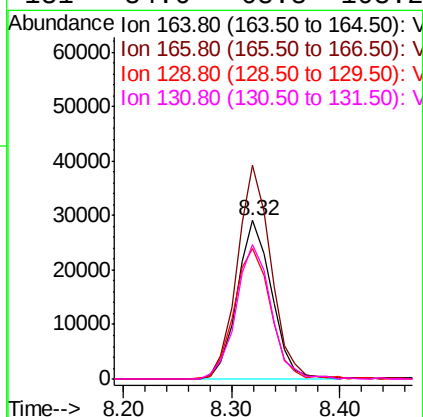
Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

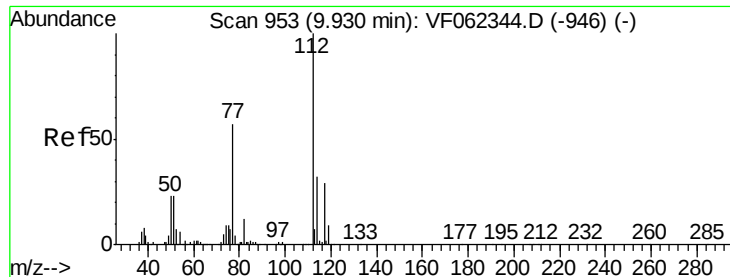
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.1	42.2	63.2
119	32.9	25.0	37.4



#64
Tetrachloroethene
Concen: 20.939 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.7	104.2	156.4
129	82.0	69.6	104.4
131	84.6	68.8	103.2





#65

Chlorobenzene

Concen: 22.776 ug/l

RT: 9.95 min Scan# 955

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

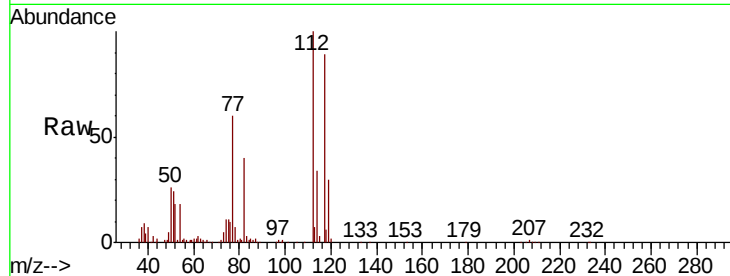
VF0512SBS01

Tot Ion:112 Resp: 144028

Ion Ratio Lower Upper

112 100

114 34.2 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

9.95

80000

60000

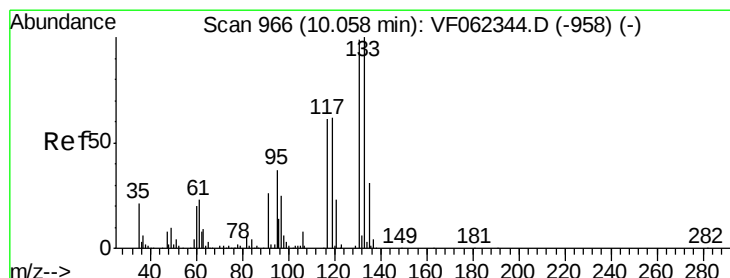
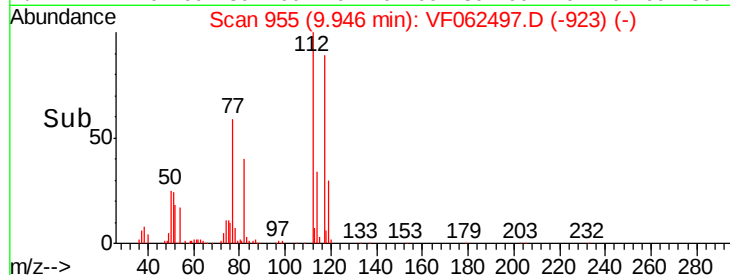
40000

20000

0

9.80 9.90 10.00 10.10

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 21.966 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

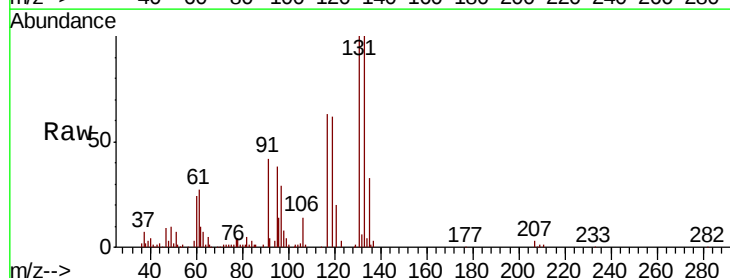
Tgt Ion:131 Resp: 70073

Ion Ratio Lower Upper

131 100

133 97.3 50.2 150.7

119 64.8 31.6 95.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

60000

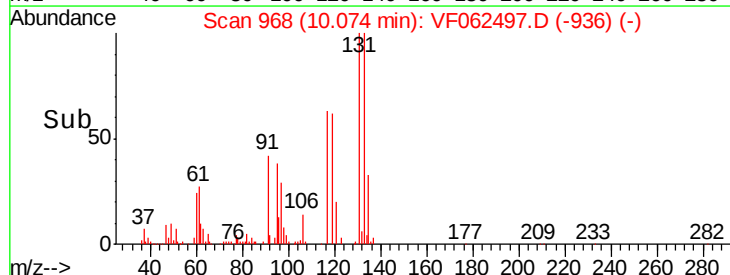
40000

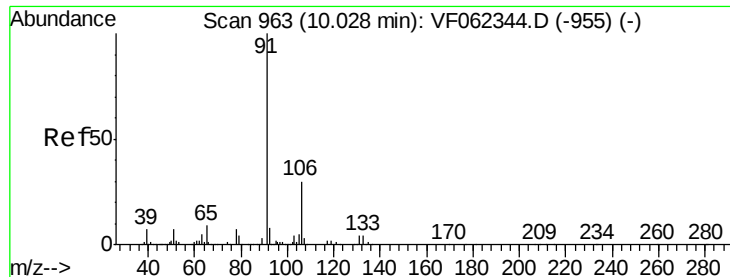
20000

0

10.00 10.10 10.20

Time-->





#67

Ethyl Benzene

Concen: 22.709 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

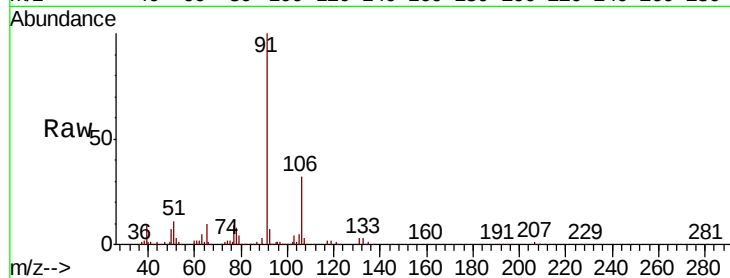
VF0512SBS01

Tot Ion: 91 Resp: 251458

Ion Ratio Lower Upper

91 100

106 31.8 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

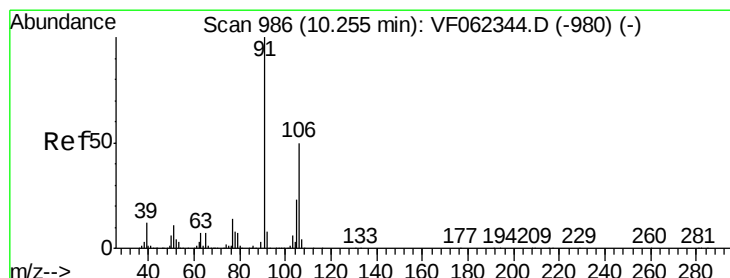
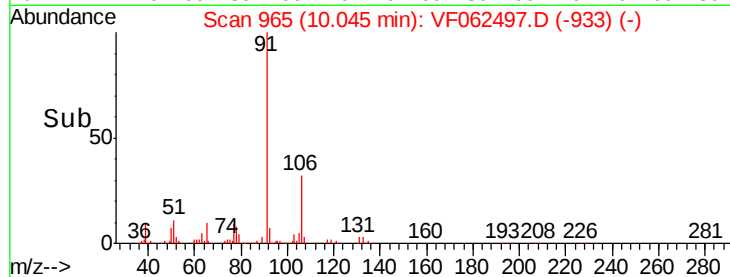
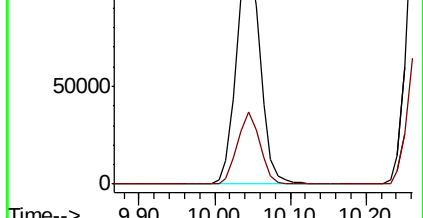
150000

100000

50000

0

9.90 10.00 10.10 10.20



#68

m/p-Xylenes

Concen: 44.941 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.02 min

Lab File: VF062497.D

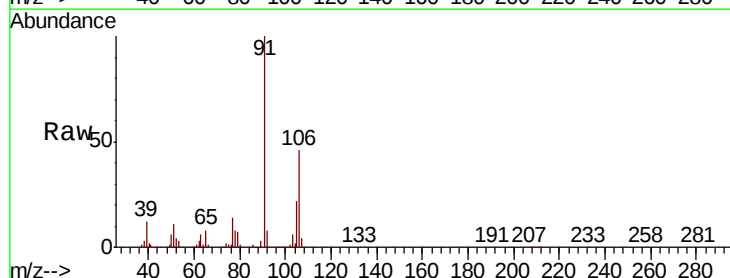
Acq: 12 May 2019 12:28

Tgt Ion: 106 Resp: 183611

Ion Ratio Lower Upper

106 100

91 215.8 167.4 251.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

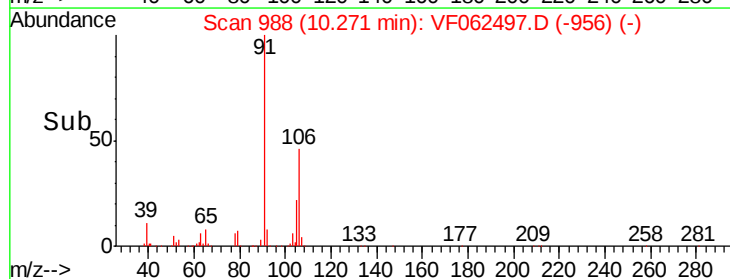
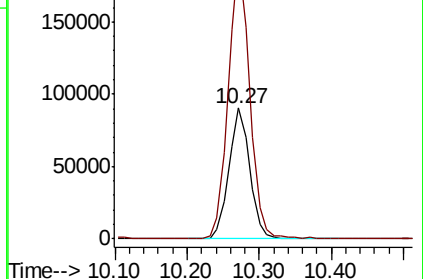
150000

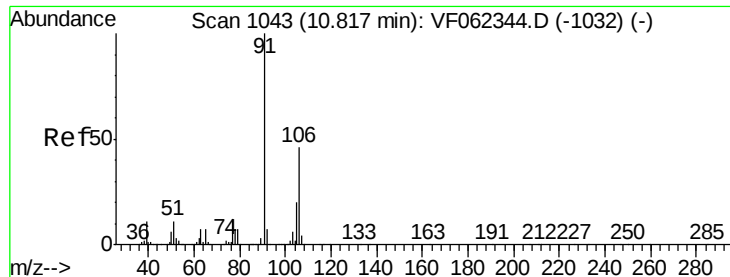
100000

50000

0

10.10 10.20 10.30 10.40

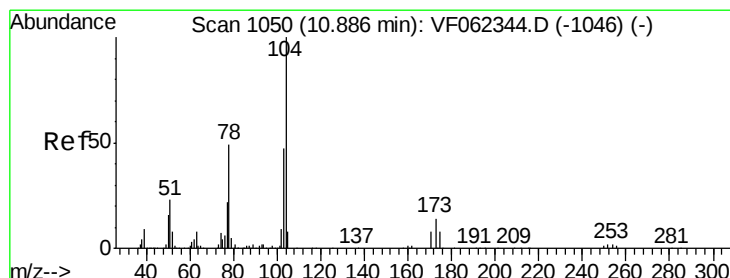
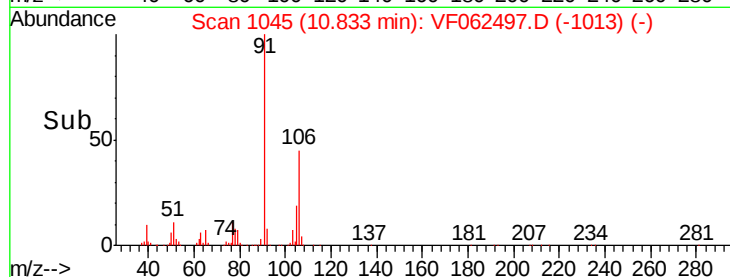
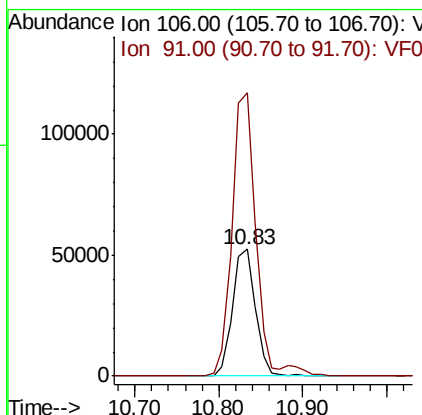
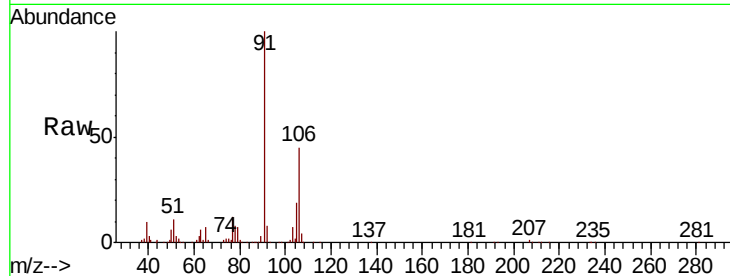




#69
o-Xylene
Concen: 22.721 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

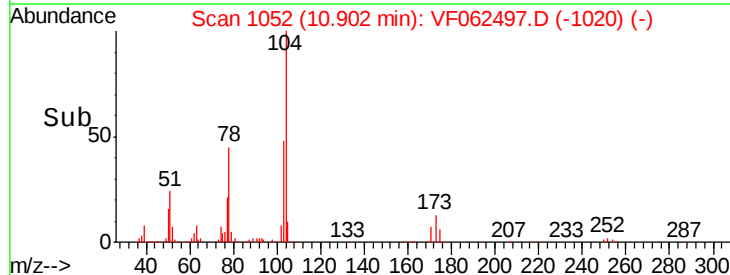
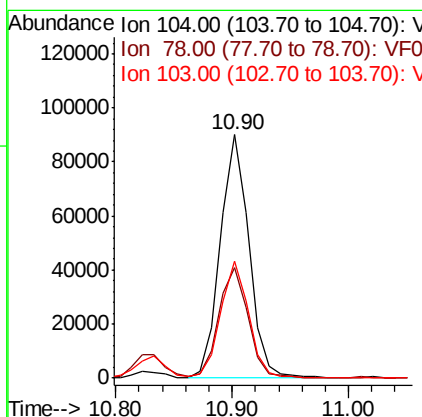
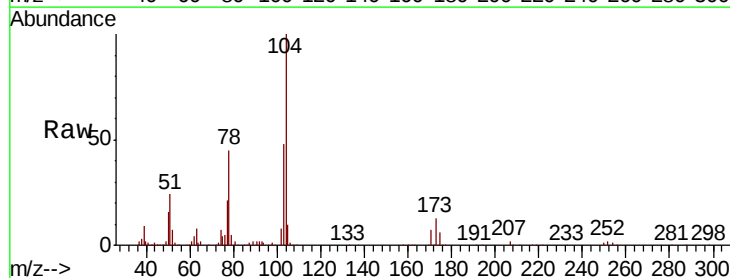
Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

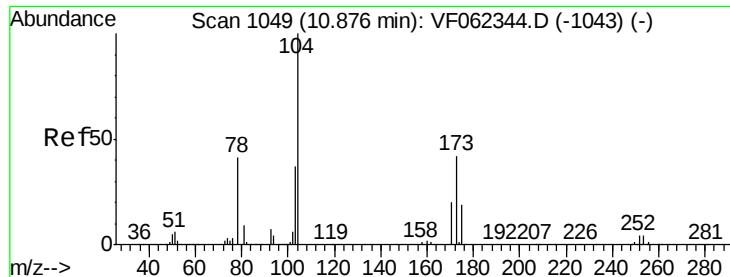
Tot Ion:106 Resp: 100308
Ion Ratio Lower Upper
106 100
91 223.2 111.3 333.8



#70
Styrene
Concen: 23.117 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion:104 Resp: 152955
Ion Ratio Lower Upper
104 100
78 46.6 39.5 59.3
103 46.9 38.4 57.6





#71

Bromoform

Concen: 20.273 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

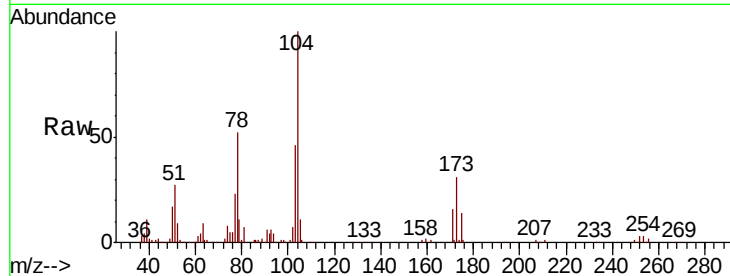
Tot Ion:173 Resp: 35431

Ion Ratio Lower Upper

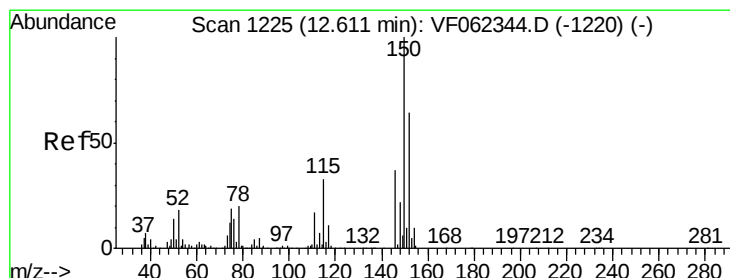
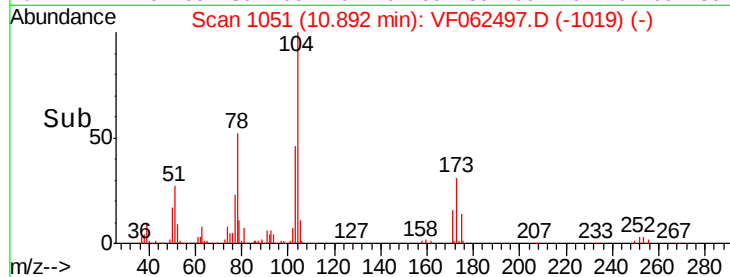
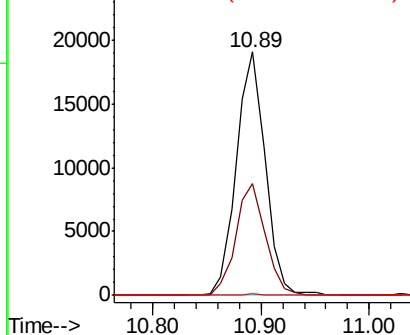
173 100

175 46.8 23.8 71.2

254 0.2 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

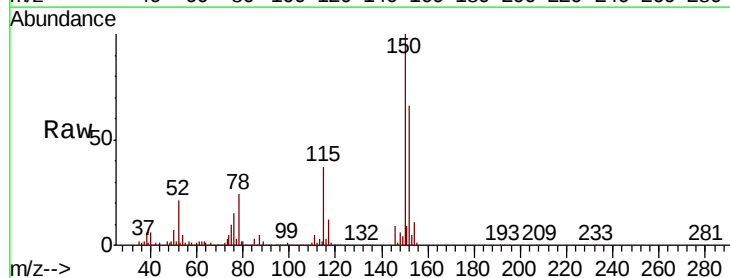
Tgt Ion:152 Resp: 249981

Ion Ratio Lower Upper

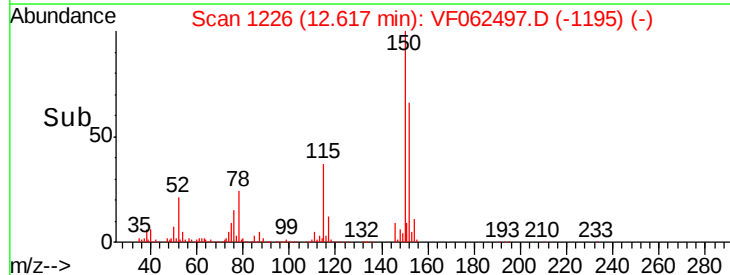
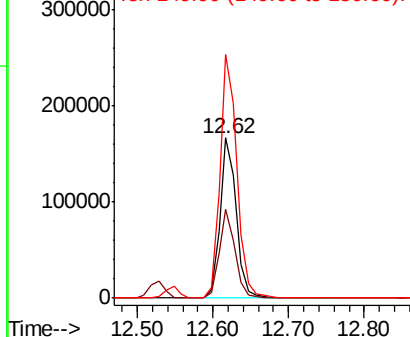
152 100

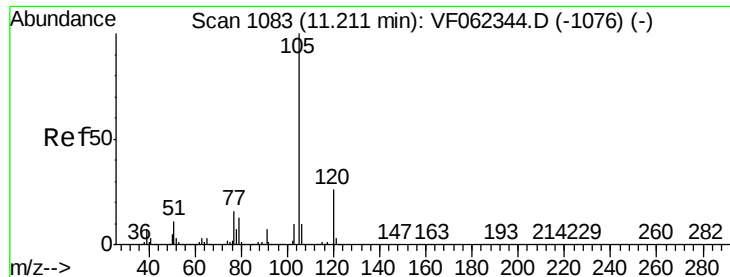
115 53.9 26.4 79.2

150 158.6 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.241 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

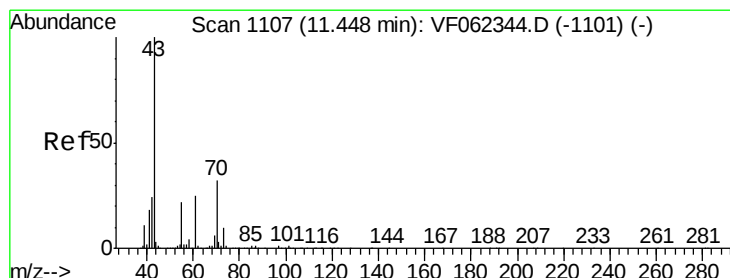
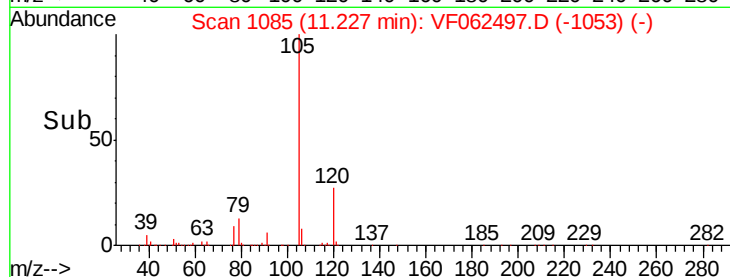
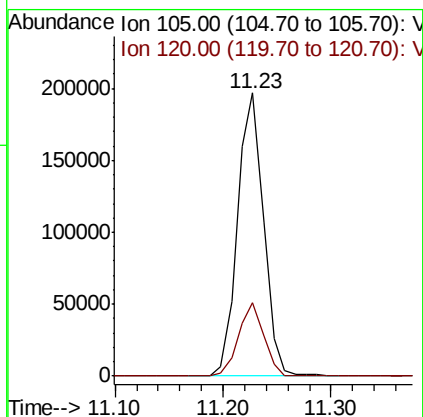
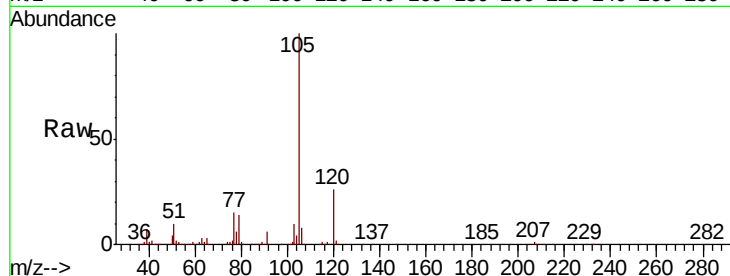
VF0512SBS01

Tot Ion: 105 Resp: 329607

Ion Ratio Lower Upper

105 100

120 25.2 12.7 38.0



#74

N-ethyl acetate

Concen: 17.082 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Tgt Ion: 43 Resp: 54347

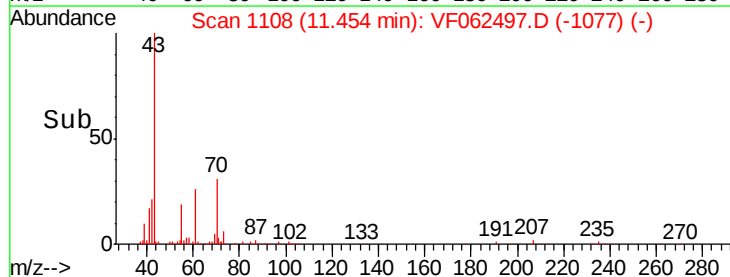
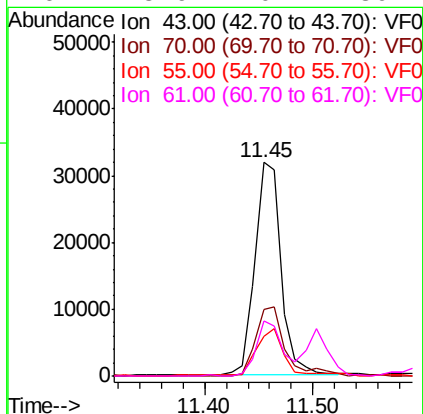
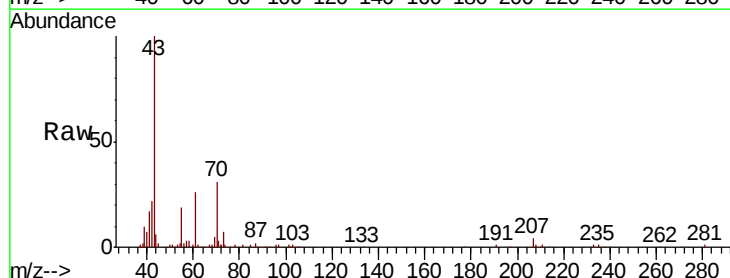
Ion Ratio Lower Upper

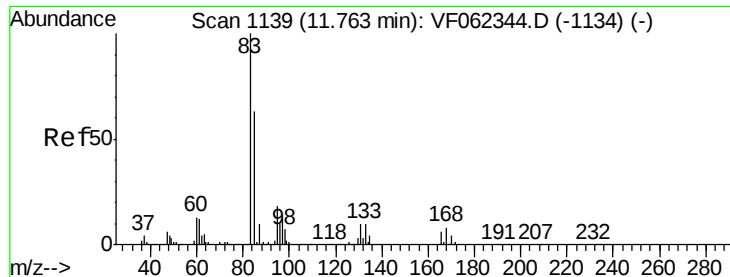
43 100

70 36.1 26.5 39.7

55 24.2 17.8 26.6

61 25.9 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 19.938 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

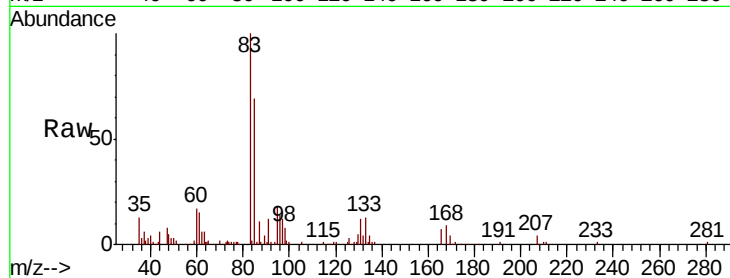
Tot Ion: 83 Resp: 46265

Ion Ratio Lower Upper

83 100

131 11.4 5.8 17.4

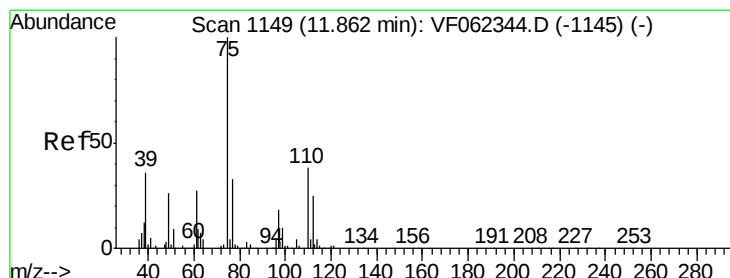
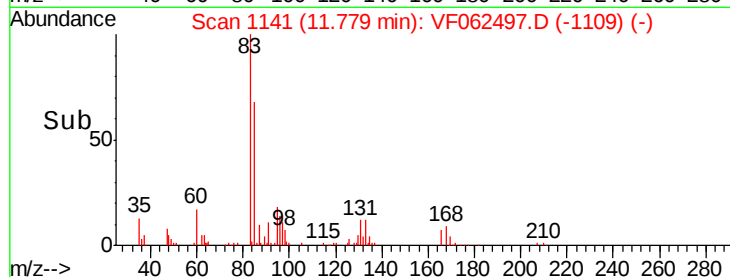
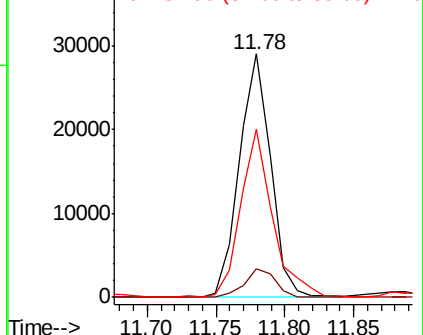
85 70.5 35.3 105.7



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 21.110 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF062497.D

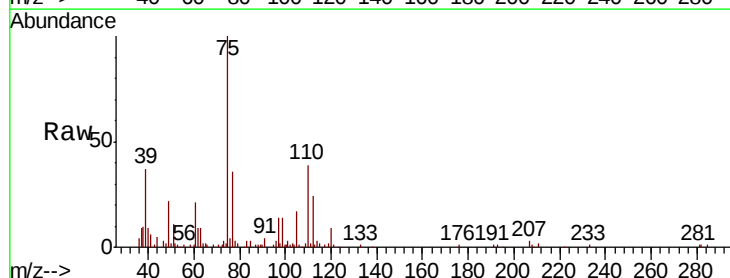
Acq: 12 May 2019 12:28

Tgt Ion: 75 Resp: 37371

Ion Ratio Lower Upper

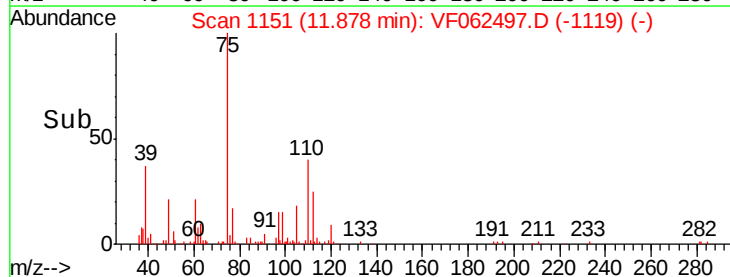
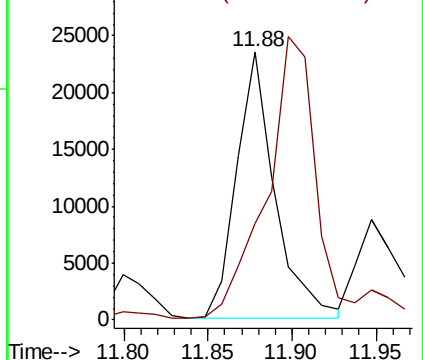
75 100

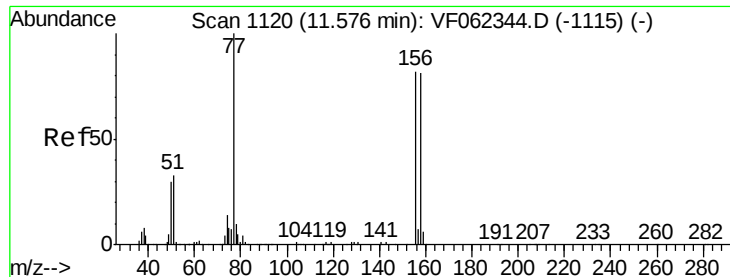
77 132.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0

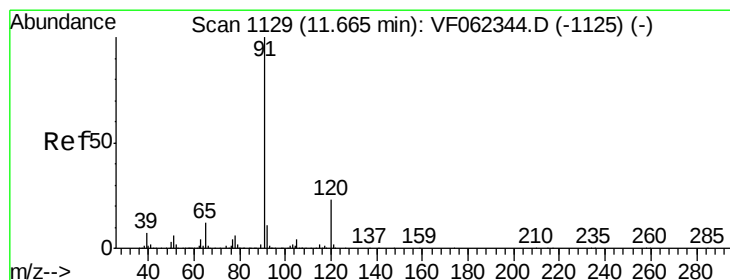
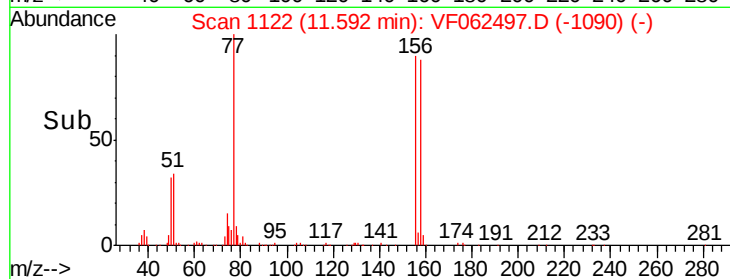
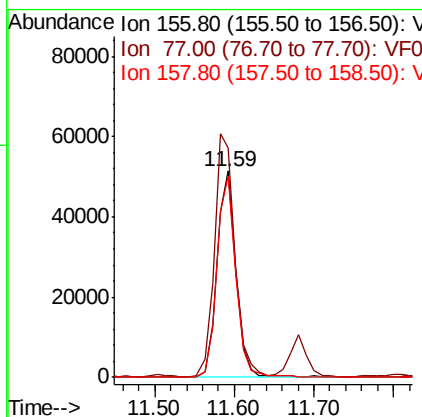
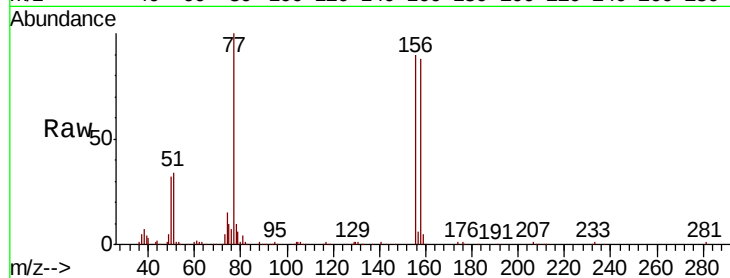




#77
Bromobenzene
Concen: 22.211 ug/l
RT: 11.59 min Scan# 1122
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

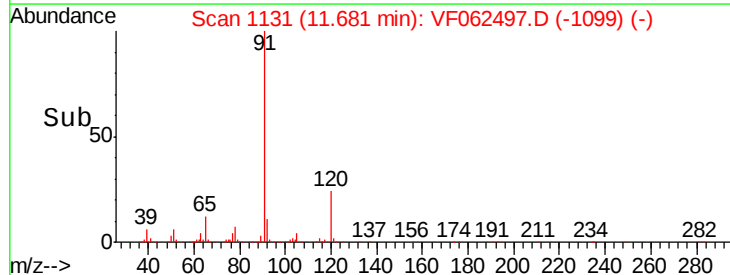
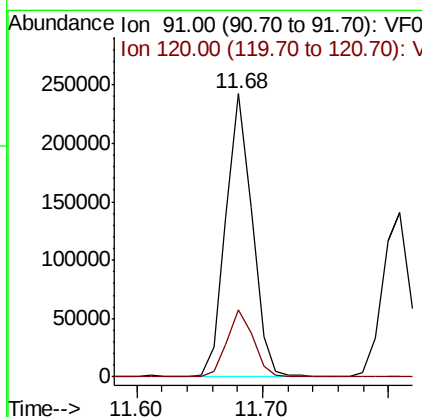
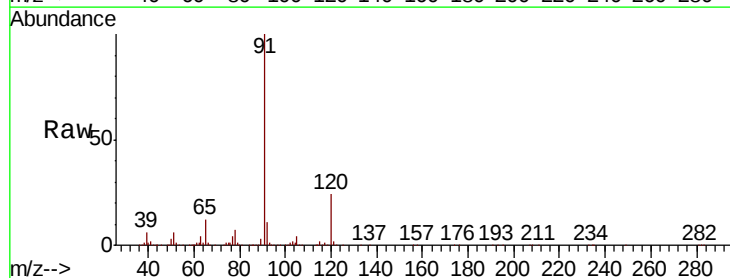
Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

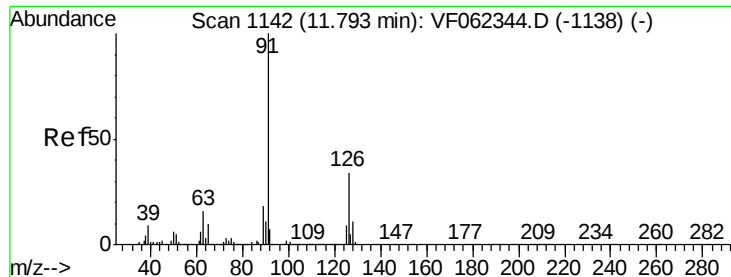
Tot Ion:156 Resp: 86389
Ion Ratio Lower Upper
156 100
77 127.3 64.8 194.3
158 97.0 49.1 147.3



#78
n-propylbenzene
Concen: 22.248 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion: 91 Resp: 351027
Ion Ratio Lower Upper
91 100
120 23.7 11.9 35.5

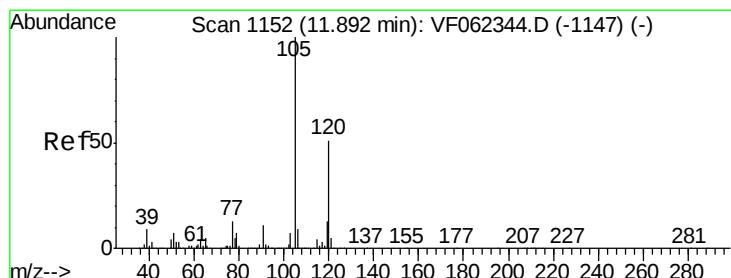
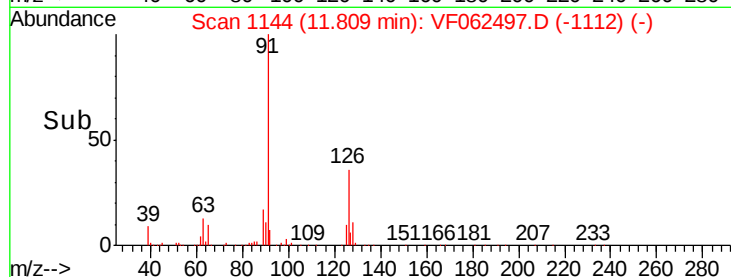
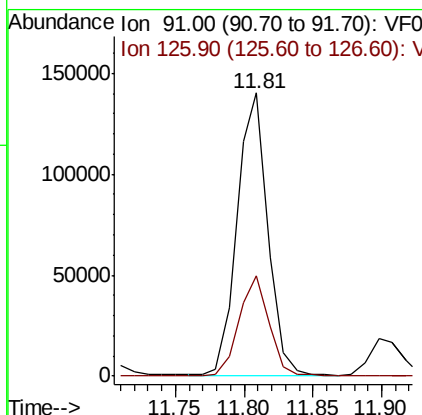
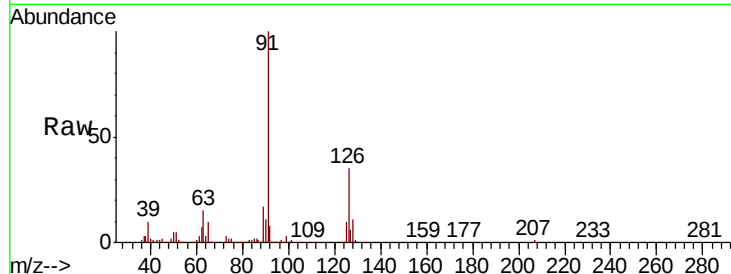




#79
 2-Chlorotoluene
 Concen: 22.103 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. 0.02 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

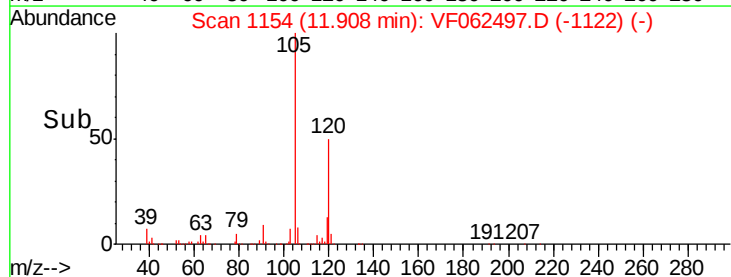
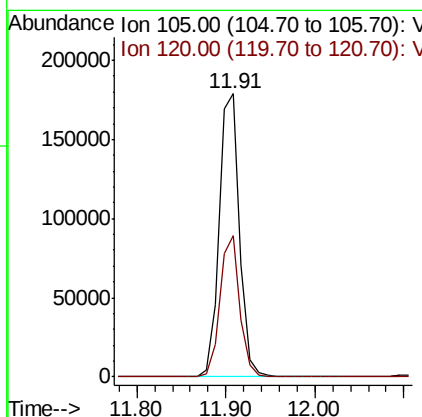
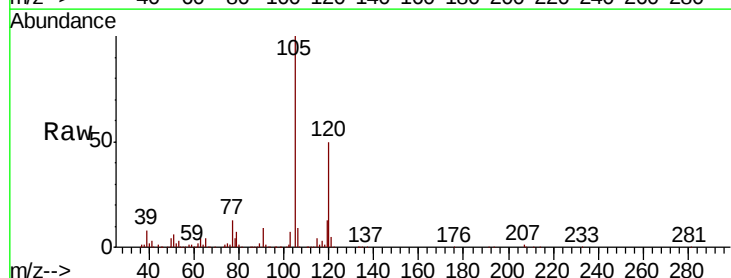
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

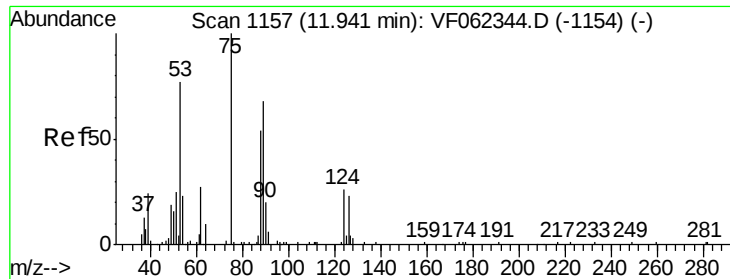
Tot Ion: 91 Resp: 216857
 Ion Ratio Lower Upper
 91 100
 126 34.9 17.8 53.4



#80
 1,3,5-Trimethylbenzene
 Concen: 22.115 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. 0.02 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Tgt Ion:105 Resp: 287259
 Ion Ratio Lower Upper
 105 100
 120 48.6 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 30.019 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

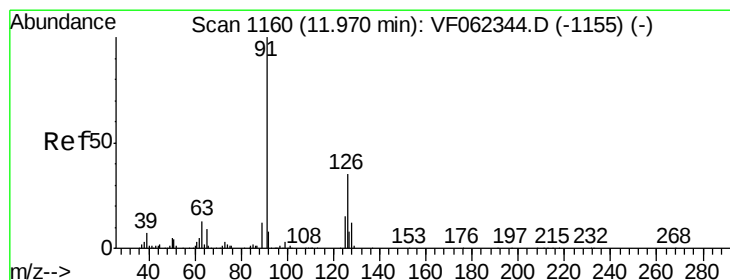
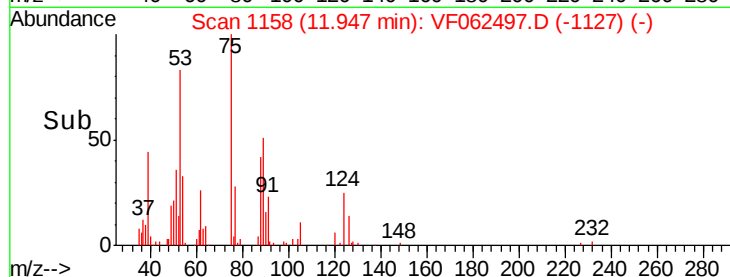
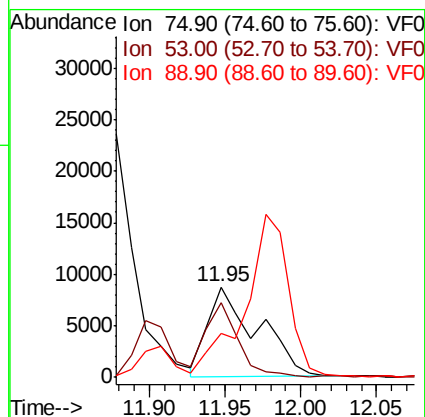
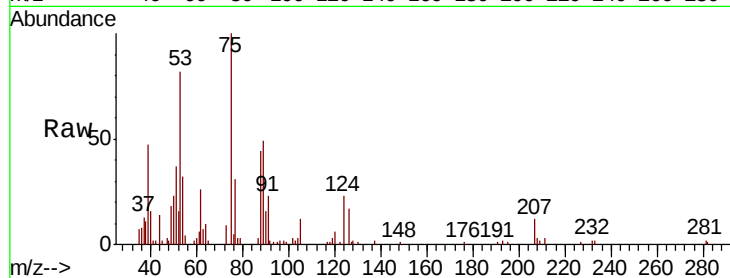
Tot Ion: 75 Resp: 19976

Ion Ratio Lower Upper

75 100

53 54.6 71.9 107.9#

89 0.0 0.0 0.0



#82

4-Chlorotoluene

Concen: 22.109 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VF062497.D

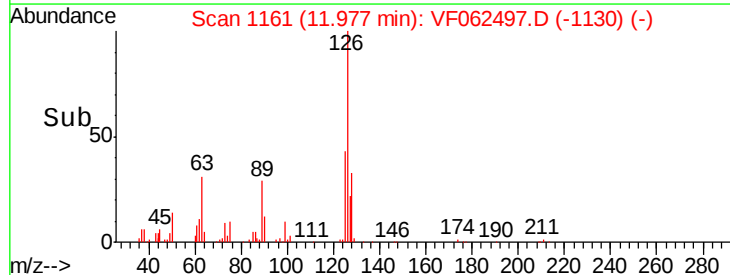
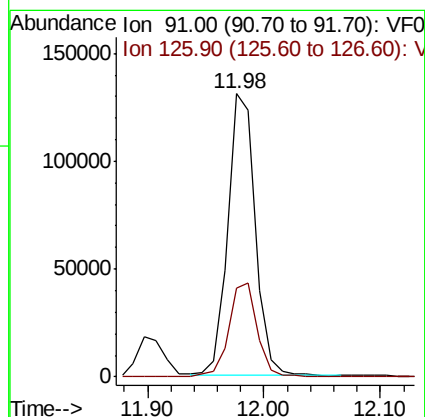
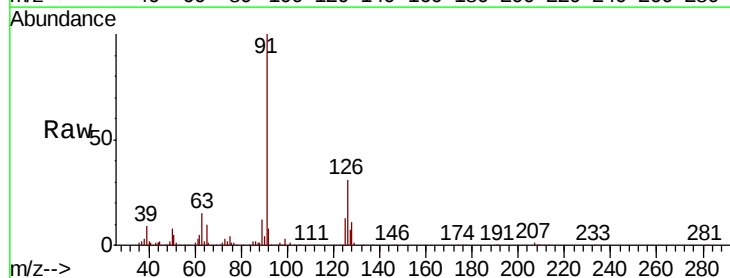
Acq: 12 May 2019 12:28

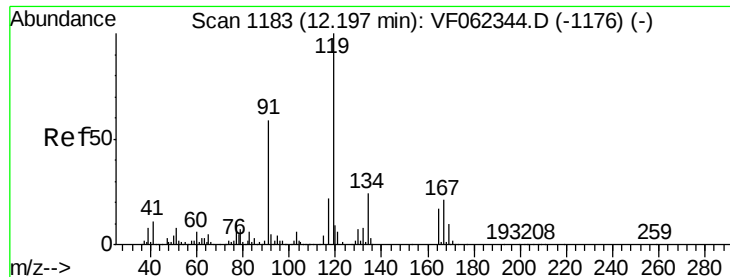
Tgt Ion: 91 Resp: 214241

Ion Ratio Lower Upper

91 100

126 34.9 17.7 53.1

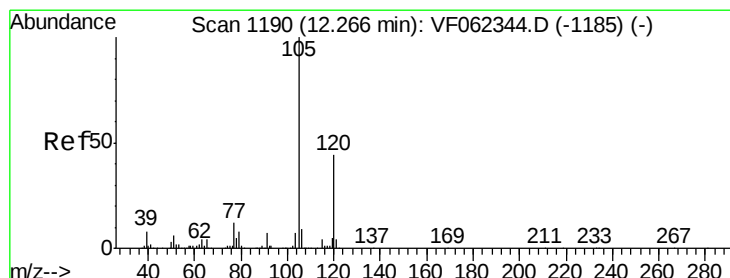
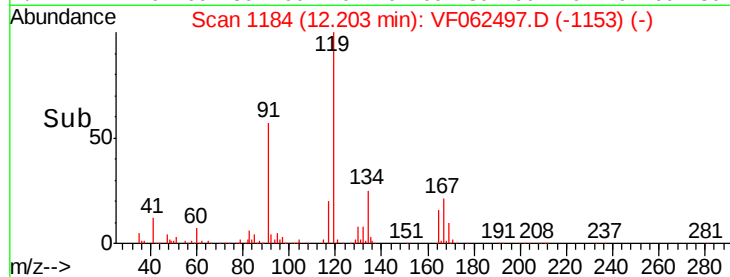
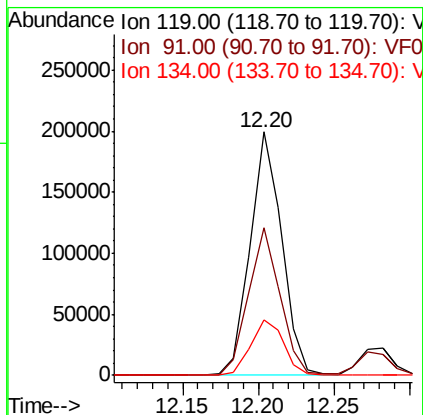
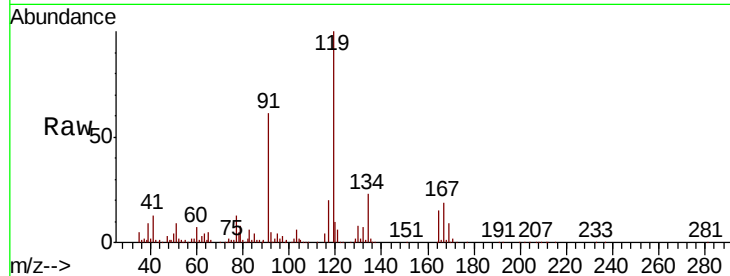




#83
 tert-Butylbenzene
 Concen: 21.350 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

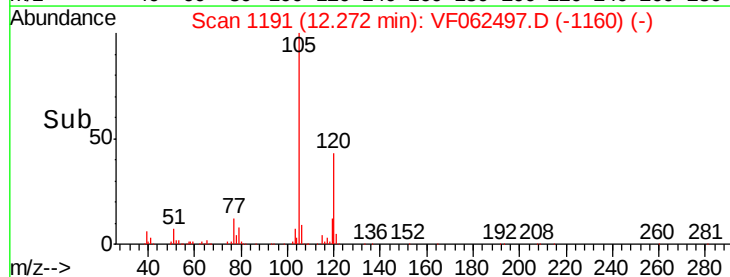
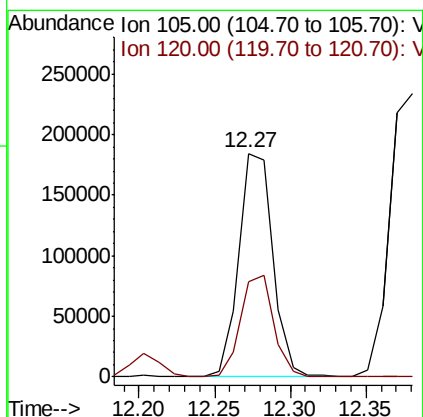
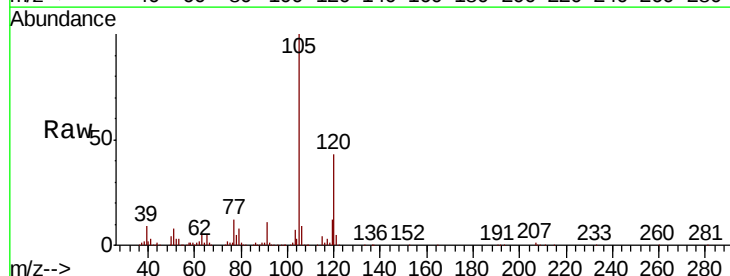
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

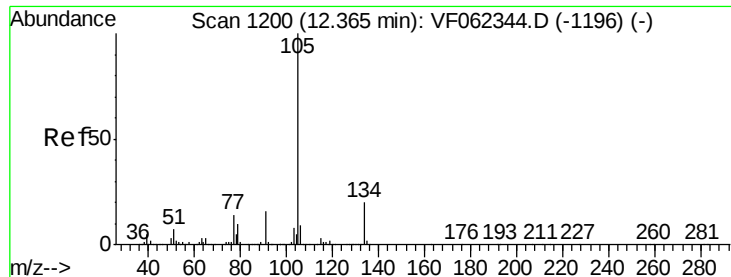
Tot Ion:119 Resp: 291451
 Ion Ratio Lower Upper
 119 100
 91 60.4 30.4 91.3
 134 23.8 11.9 35.7



#84
 1,2,4-Trimethylbenzene
 Concen: 22.836 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Tgt Ion:105 Resp: 290282
 Ion Ratio Lower Upper
 105 100
 120 44.1 22.6 67.7





#85

sec-Butylbenzene

Concen: 22.290 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

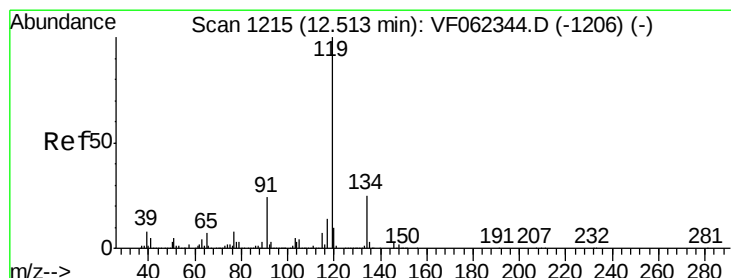
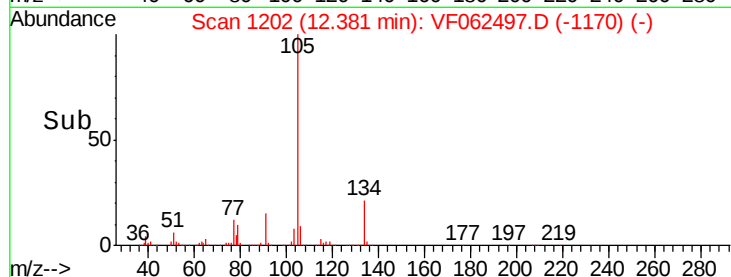
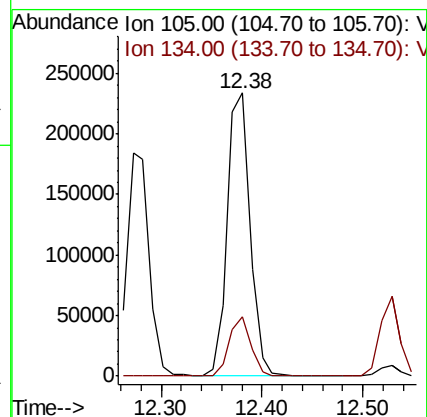
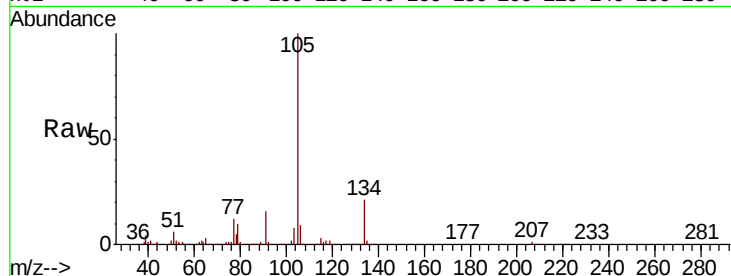
VF0512SBS01

Tot Ion:105 Resp: 370375

Ion Ratio Lower Upper

105 100

134 19.8 9.8 29.5



#86

p-Isopropyltoluene

Concen: 22.284 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

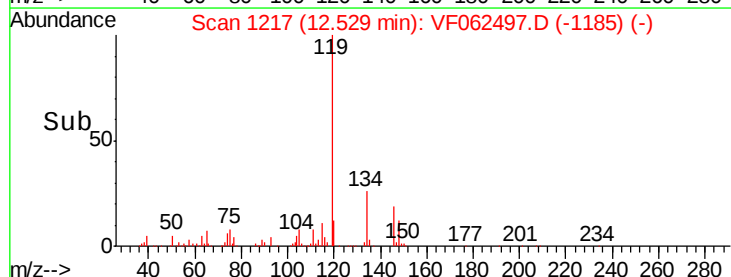
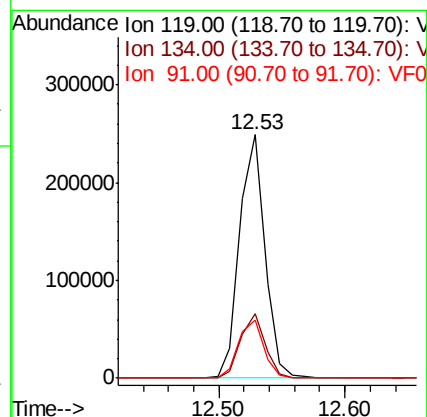
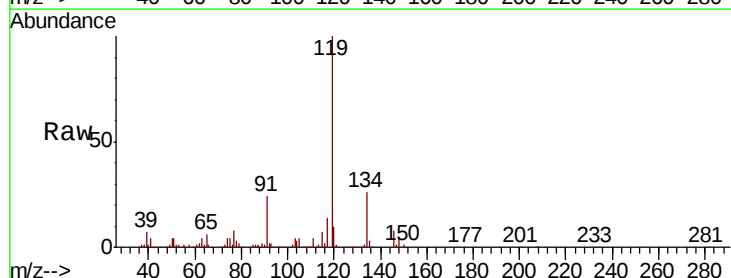
Tgt Ion:119 Resp: 344021

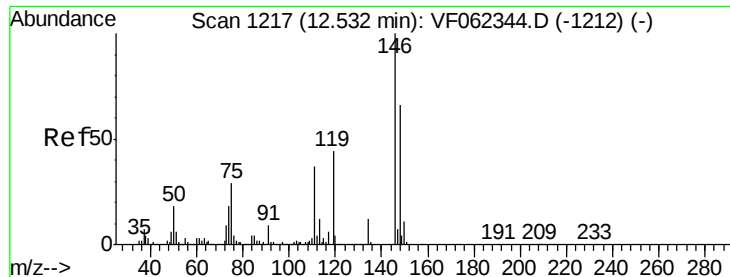
Ion Ratio Lower Upper

119 100

134 25.9 12.9 38.7

91 23.8 12.3 36.8

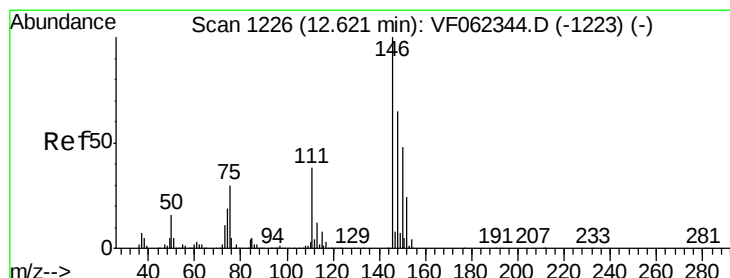
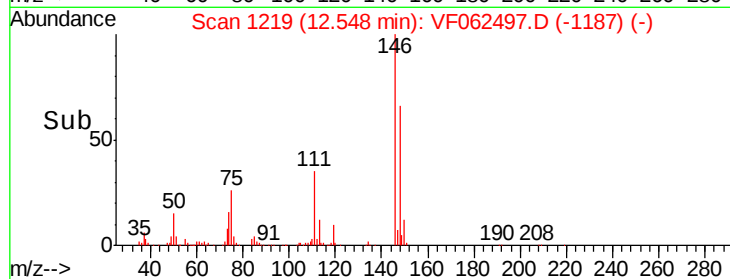
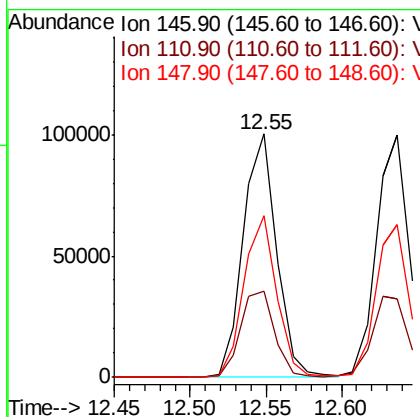
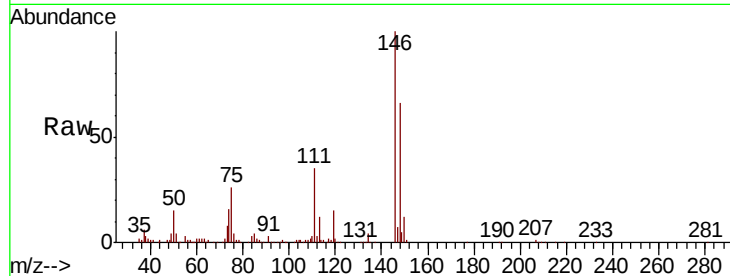




#87
 1,3-Dichlorobenzene
 Concen: 21.821 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.02 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

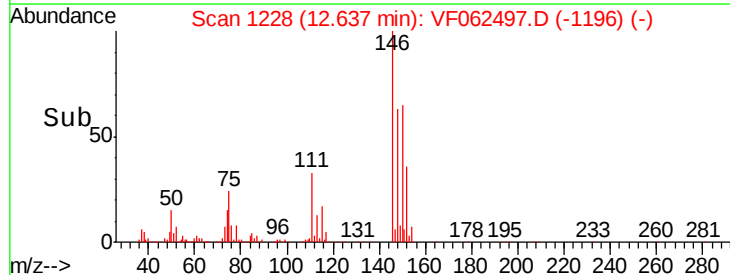
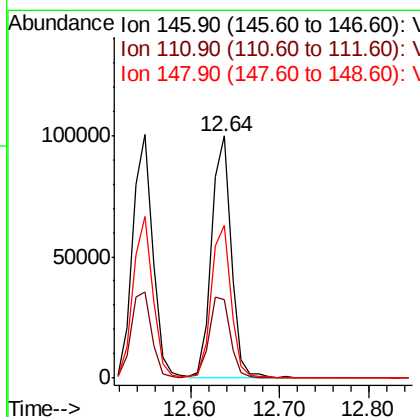
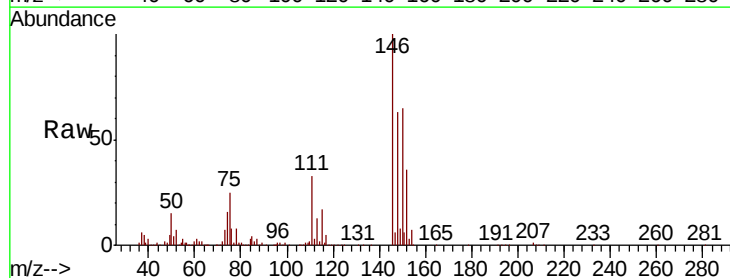
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

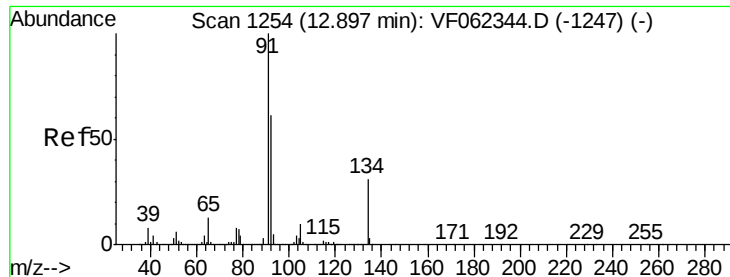
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.3	54.8
148	65.5	32.3	96.9



#88
 1,4-Dichlorobenzene
 Concen: 22.480 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.02 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.8	56.3
148	62.9	32.2	96.6





#89

n-Butylbenzene

Concen: 20.850 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

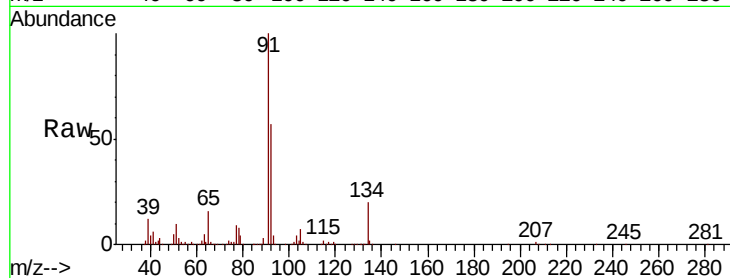
Tot Ion: 91 Resp: 286366

Ion Ratio Lower Upper

91 100

92 57.6 30.0 90.0

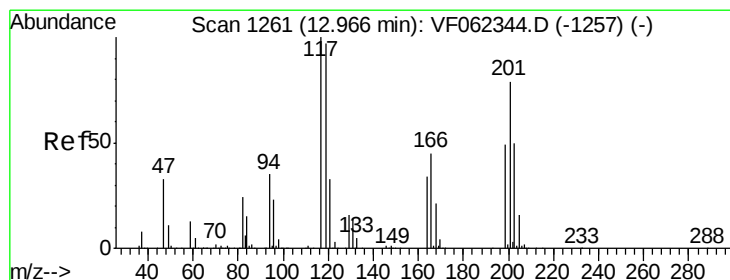
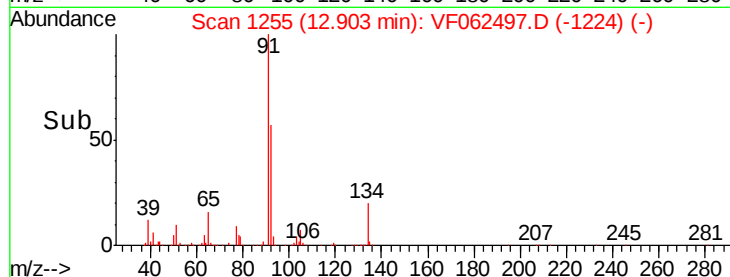
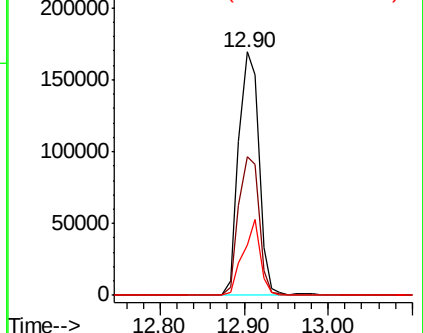
134 26.5 14.1 42.4



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: 20.064 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.02 min

Lab File: VF062497.D

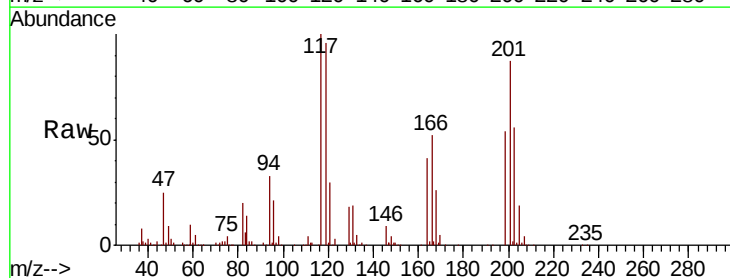
Acq: 12 May 2019 12:28

Tgt Ion: 117 Resp: 77340

Ion Ratio Lower Upper

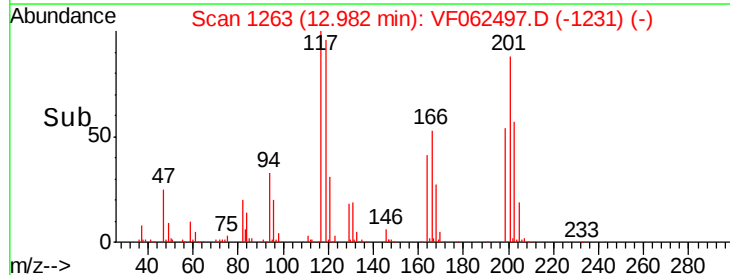
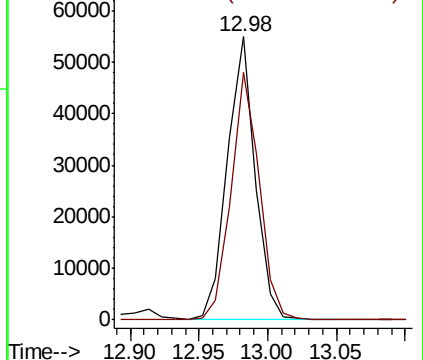
117 100

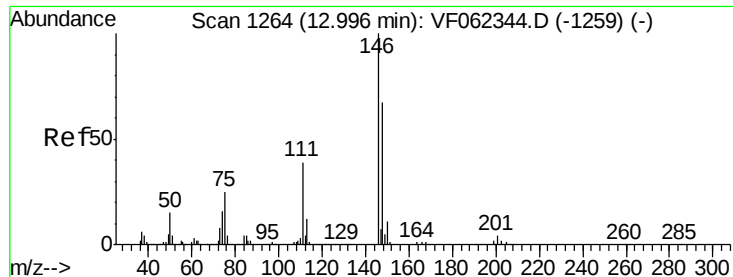
201 88.6 46.2 138.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 22.508 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

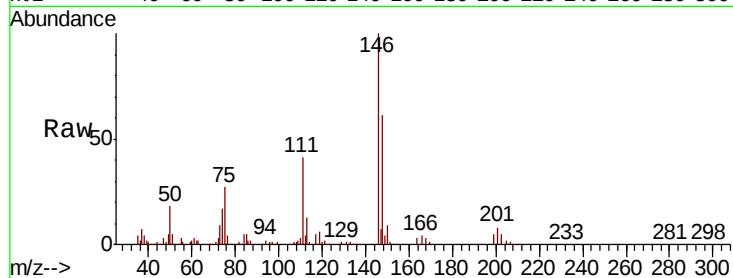
Tot Ion:146 Resp: 154754

Ion Ratio Lower Upper

146 100

111 38.8 20.0 60.0

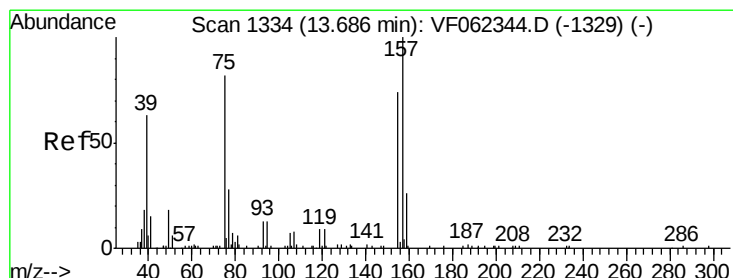
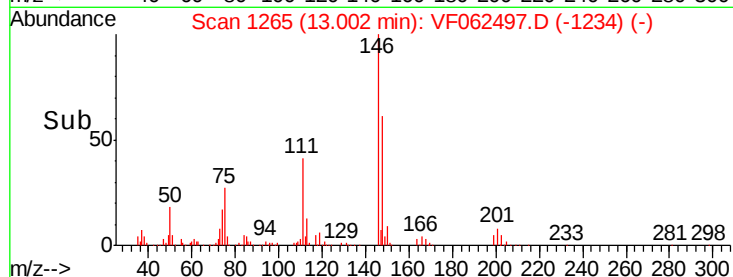
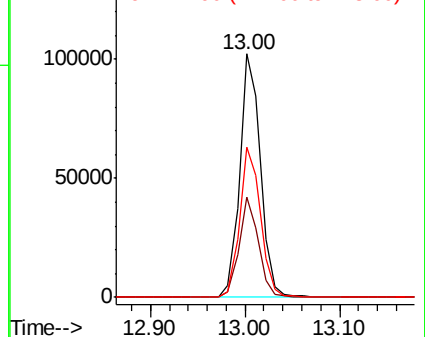
148 62.4 33.1 99.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.294 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062497.D

Acq: 12 May 2019 12:28

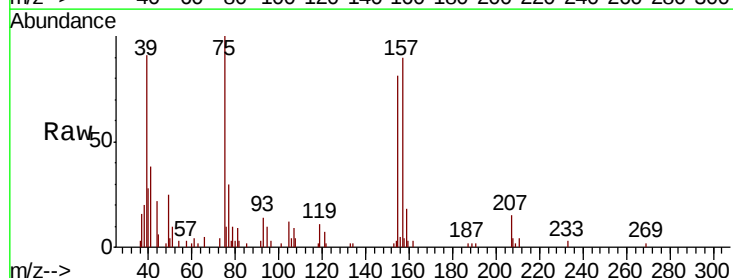
Tgt Ion: 75 Resp: 9510

Ion Ratio Lower Upper

75 100

155 103.3 51.8 155.4

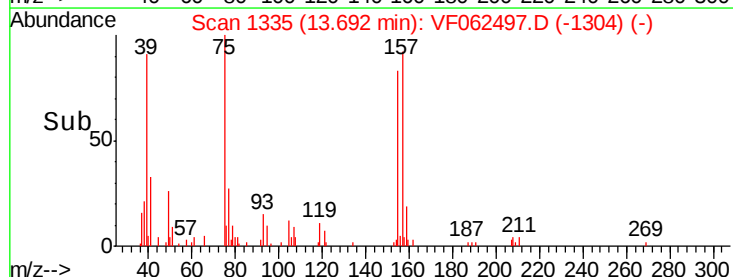
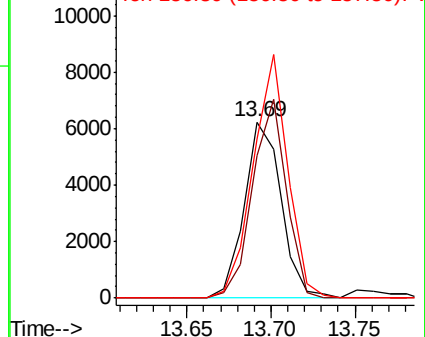
157 129.3 67.3 201.8

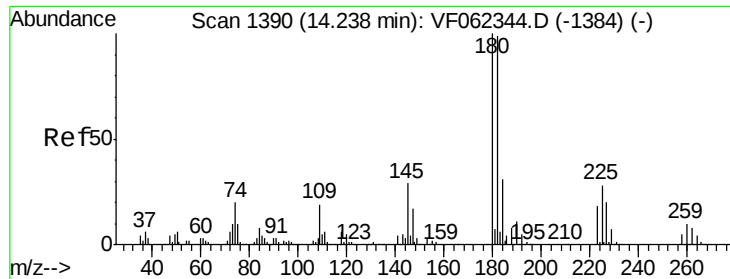


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

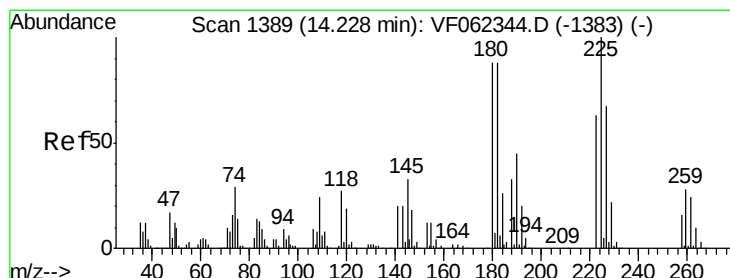
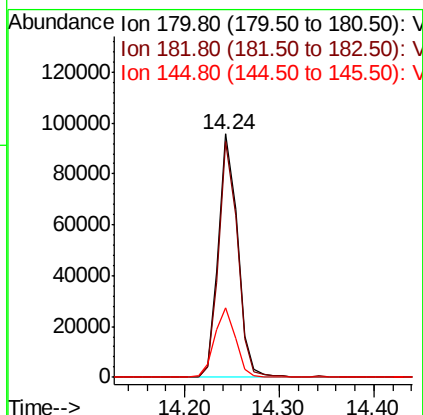
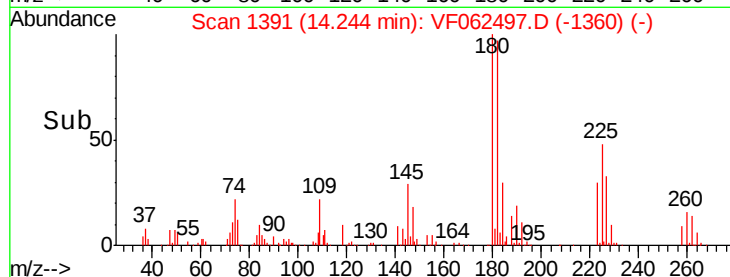
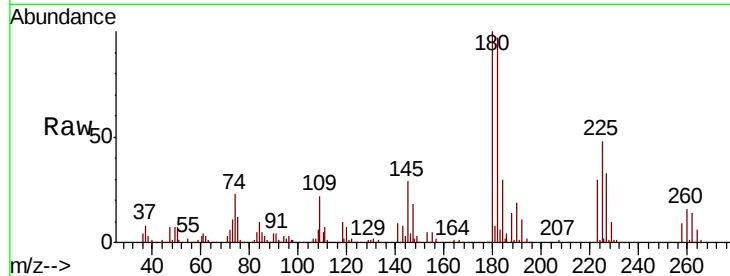




#93
 1,2,4-Trichlorobenzene
 Concen: 22.165 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

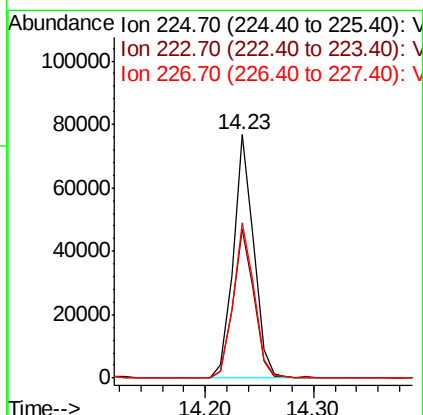
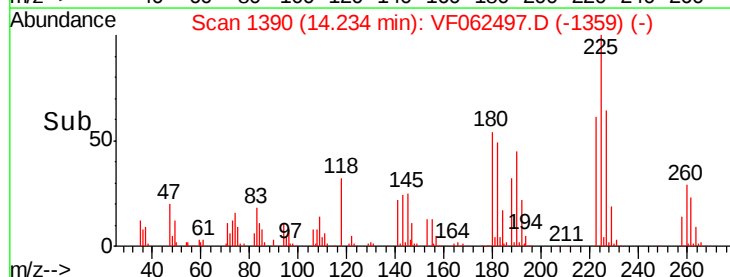
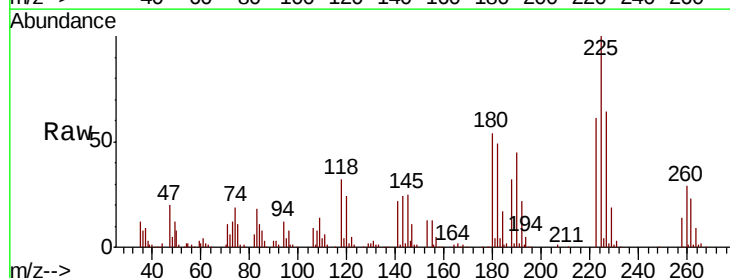
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

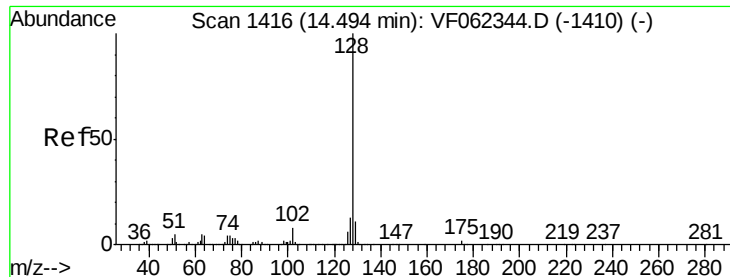
Tot Ion:180 Resp: 136694
 Ion Ratio Lower Upper
 180 100
 182 94.7 49.0 147.0
 145 31.6 16.7 50.1



#94
 Hexachlorobutadiene
 Concen: 22.118 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062497.D
 Acq: 12 May 2019 12:28

Tgt Ion:225 Resp: 101665
 Ion Ratio Lower Upper
 225 100
 223 62.3 31.9 95.5
 227 65.2 33.1 99.5

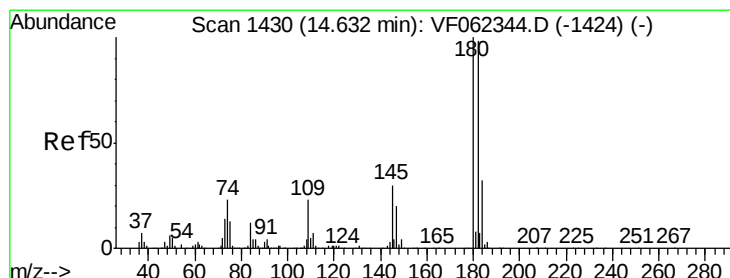
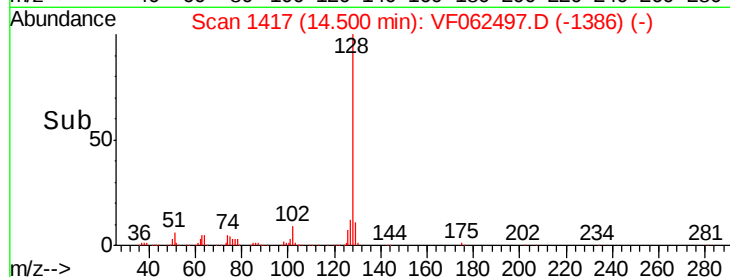
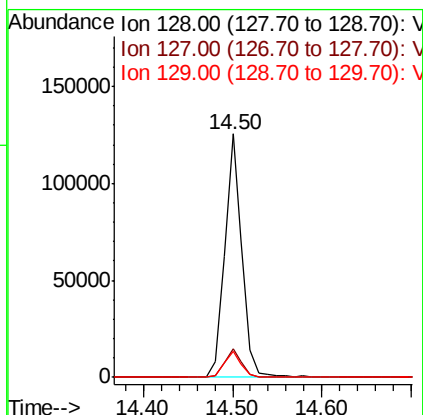
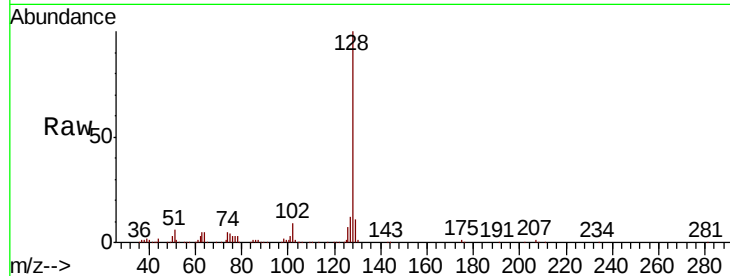




#95
Naphthalene
Concen: 18.464 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion:128 Resp: 171191
Ion Ratio Lower Upper
128 100
127 11.8 10.5 15.7
129 10.7 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 21.357 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.02 min
Lab File: VF062497.D
Acq: 12 May 2019 12:28

Tgt Ion:180 Resp: 127597
Ion Ratio Lower Upper
180 100
182 96.2 49.4 148.0
145 29.9 14.8 44.3

