

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061143.D
 Acq On : 22 Dec 2018 14:33
 Operator : VA/AP
 Sample : VF1222SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 02:56:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	195516	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.63	114	355333	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.80	117	344096	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	167615	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.87	65	122467	48.70	ug/l	0.02
Spiked Amount	50.000		Recovery	=	97.40%	
35) Dibromofluoromethane	4.14	113	130665	45.91	ug/l	0.02
Spiked Amount	50.000		Recovery	=	91.82%	
50) Toluene-d8	7.58	98	360749	44.72	ug/l	0.02
Spiked Amount	50.000		Recovery	=	89.44%	
62) 4-Bromofluorobenzene	11.43	95	169296	45.53	ug/l	0.01
Spiked Amount	50.000		Recovery	=	91.06%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	82773	19.045	ug/l	99
3) Chloromethane	1.11	50	54570	21.919	ug/l	98
4) Vinyl Chloride	1.15	62	50598	21.909	ug/l	91
5) Bromomethane	1.34	94	32779	20.463	ug/l	93
6) Chloroethane	1.40	64	22166	20.830	ug/l	89
7) Trichlorofluoromethane	1.49	101	87917	19.937	ug/l	96
8) Diethyl Ether	1.64	74	13410	22.208	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.84	101	46512	20.343	ug/l	96
10) Methyl Iodide	1.91	142	60009	16.651	ug/l	91
11) Tert butyl alcohol	2.59	59	11984	118.095	ug/l	98
12) 1,1-Dichloroethene	1.80	96	35914	20.838	ug/l	94
13) Acrolein	2.02	56	8217	112.060	ug/l	92
14) Allyl chloride	2.11	41	42484	23.687	ug/l	98
15) Acrylonitrile	2.95	53	28006	119.350	ug/l	# 90
16) Acetone	2.25	43	57109	113.602	ug/l	94
17) Carbon Disulfide	1.85	76	104488	20.062	ug/l	100
18) Methyl Acetate	2.36	43	21386	20.562	ug/l	100
19) Methyl tert-butyl Ether	2.44	73	86177	22.527	ug/l	96
20) Methylene Chloride	2.19	84	12769	3.798	ug/l	94
21) trans-1,2-Dichloroethene	2.32	96	37013	20.079	ug/l	92
22) Diisopropyl ether	2.82	45	133206	22.296	ug/l	95
23) Vinyl Acetate	3.21	43	334969	121.537	ug/l	99
24) 1,1-Dichloroethane	2.89	63	78539	22.188	ug/l	97
25) 2-Butanone	4.36	43	98000	120.201	ug/l	99
26) 2,2-Dichloropropane	3.62	77	43704	21.514	ug/l	98
27) cis-1,2-Dichloroethene	3.50	96	60301	21.368	ug/l	93
28) Bromochloromethane	3.75	49	40302	22.439	ug/l	96
29) Tetrahydrofuran	4.11	42	40434	121.849	ug/l	98
30) Chloroform	3.88	83	108144	20.375	ug/l	97
31) Cyclohexane	3.71	56	82875	22.563	ug/l	89
32) 1,1,1-Trichloroethane	4.12	97	67098	21.091	ug/l	95
36) 1,1-Dichloropropene	4.31	75	83512	19.471	ug/l	93
37) Ethyl Acetate	4.14	43	37740	20.433	ug/l	# 79
38) Carbon Tetrachloride	4.02	117	68047	20.833	ug/l	92

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Quant Time: Dec 24 02:56:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	85254	22.156	ug/l	94
40) Benzene	4.66	78	189032	20.494	ug/l	95
41) Methacrylonitrile	4.77	41	22908	25.290	ug/l	93
42) 1,2-Dichloroethane	4.97	62	69139	19.732	ug/l	98
43) Isopropyl Acetate	6.99	43	47131	22.758	ug/l	100
44) Trichloroethene	5.53	130	58630	20.162	ug/l	96
45) 1,2-Dichloropropane	6.26	63	49432	19.698	ug/l #	88
46) Dibromomethane	6.11	93	32479	19.955	ug/l	94
47) Bromodichloromethane	6.42	83	86470	20.447	ug/l	96
48) Methyl methacrylate	6.74	41	30565	21.141	ug/l	92
49) 1,4-Dioxane	6.73	88	4549	433.629	ug/l #	85
51) 4-Methyl-2-Pentanone	8.28	43	173952	122.472	ug/l	99
52) Toluene	7.65	92	123349	20.202	ug/l	97
53) t-1,3-Dichloropropene	8.30	75	70028	20.527	ug/l	96
54) cis-1,3-Dichloropropene	7.32	75	89837	20.981	ug/l	99
55) 1,1,2-Trichloroethane	8.52	97	38242	20.893	ug/l	96
56) Ethyl methacrylate	8.65	69	42920	21.670	ug/l	98
57) 1,3-Dichloropropane	8.87	76	68692	20.750	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.31	63	42588	111.958	ug/l	97
59) 2-Hexanone	9.51	43	120246	117.067	ug/l	99
60) Dibromochloromethane	8.74	129	51957	19.802	ug/l	93
61) 1,2-Dibromoethane	9.01	107	40276	20.603	ug/l	93
64) Tetrachloroethene	8.18	164	49005	18.514	ug/l	98
65) Chlorobenzene	9.82	112	136534	19.207	ug/l	93
66) 1,1,1,2-Tetrachloroethane	9.96	131	53865	18.542	ug/l	94
67) Ethyl Benzene	9.93	91	251716	19.437	ug/l	97
68) m/p-Xylenes	10.16	106	181104	39.737	ug/l	98
69) o-Xylene	10.74	106	96982	19.187	ug/l	99
70) Styrene	10.81	104	142984	20.315	ug/l	98
71) Bromoform	10.80	173	27979	20.818	ug/l #	95
73) Isopropylbenzene	11.14	105	287586	19.910	ug/l	98
74) N-amyl acetate	11.39	43	77821	24.267	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.71	83	51072	21.304	ug/l	99
76) 1,2,3-Trichloropropane	11.81	75	38044	21.325	ug/l	100
77) Bromobenzene	11.52	156	59784	19.227	ug/l	89
78) n-propylbenzene	11.61	91	341216	18.048	ug/l	99
79) 2-Chlorotoluene	11.73	91	192414	19.419	ug/l	99
80) 1,3,5-Trimethylbenzene	11.84	105	241466	20.302	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.88	75	23113	30.149	ug/l	93
82) 4-Chlorotoluene	11.92	91	202266	19.733	ug/l	97
83) tert-Butylbenzene	12.15	119	245591	20.066	ug/l	97
84) 1,2,4-Trimethylbenzene	12.22	105	233155	19.658	ug/l	95
85) sec-Butylbenzene	12.33	105	323546	20.257	ug/l	98
86) p-Isopropyltoluene	12.47	119	269738	20.346	ug/l	99
87) 1,3-Dichlorobenzene	12.49	146	116578	19.716	ug/l	99
88) 1,4-Dichlorobenzene	12.58	146	109859	19.241	ug/l	98
89) n-Butylbenzene	12.86	91	282853	18.524	ug/l	95
90) Hexachloroethane	12.94	117	62160	18.978	ug/l	87
91) 1,2-Dichlorobenzene	12.96	146	113172	20.359	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.66	75	8816	20.041	ug/l	89

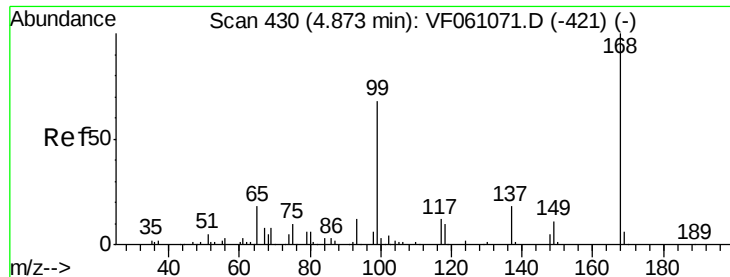
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
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ClientSampleId :

Quant Time: Dec 24 02:56:04 2018
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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	79737	20.226	ug/l	95
94) Hexachlorobutadiene	14.21	225	46291	18.437	ug/l	96
95) Naphthalene	14.48	128	148189	20.586	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	71654	19.661	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

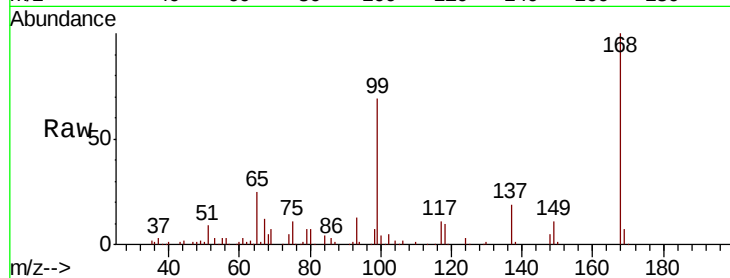
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 195516

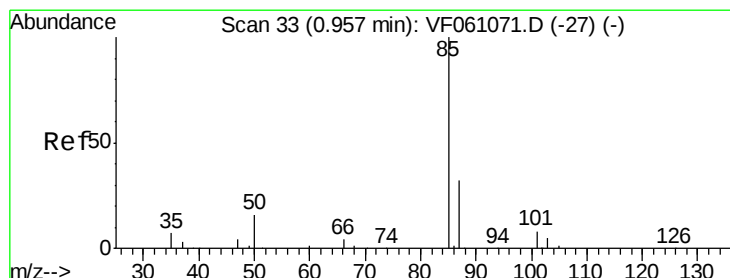
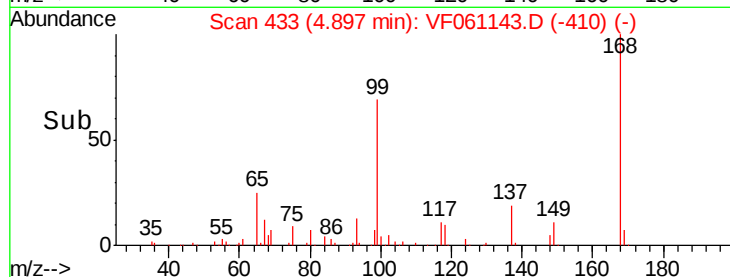
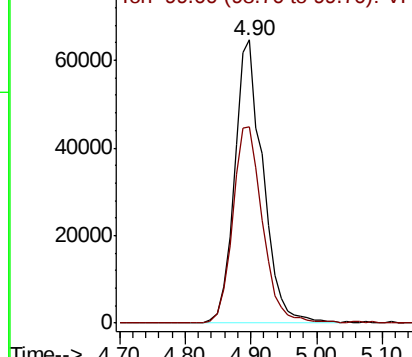
Ion Ratio Lower Upper

168 100

99 69.4 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0
Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 19.045 ug/l

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF061143.D

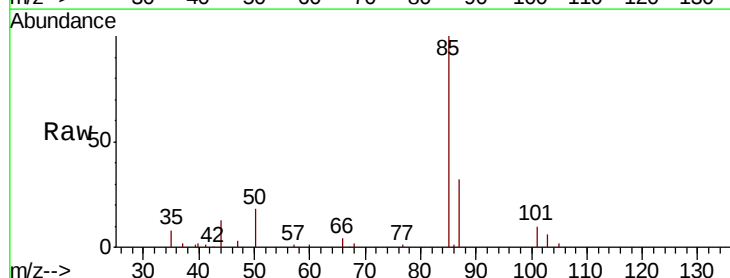
Acq: 22 Dec 2018 14:33

Tgt Ion: 85 Resp: 82773

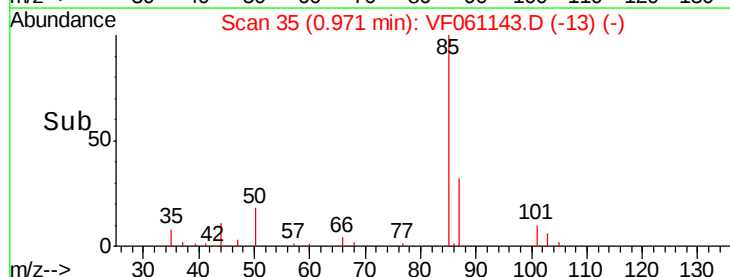
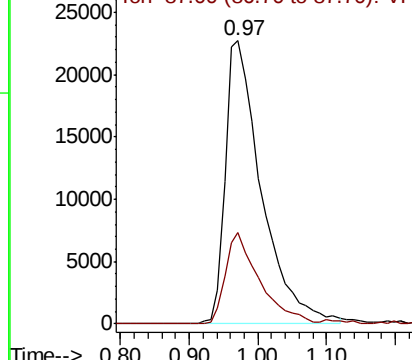
Ion Ratio Lower Upper

85 100

87 32.4 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0
Ion 87.00 (86.70 to 87.70): VF0

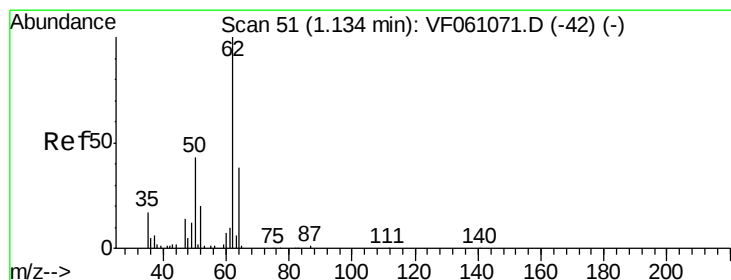
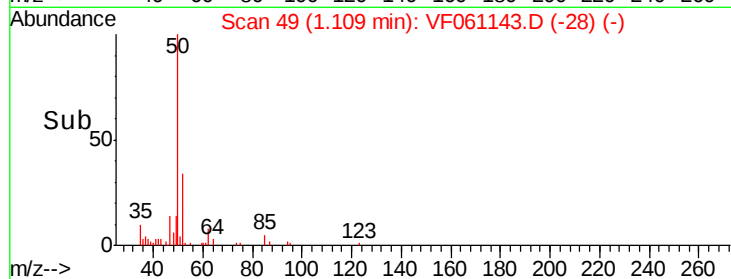
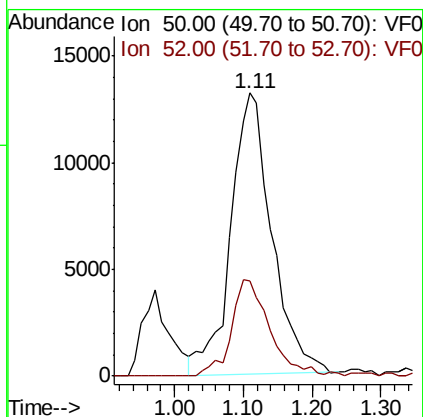
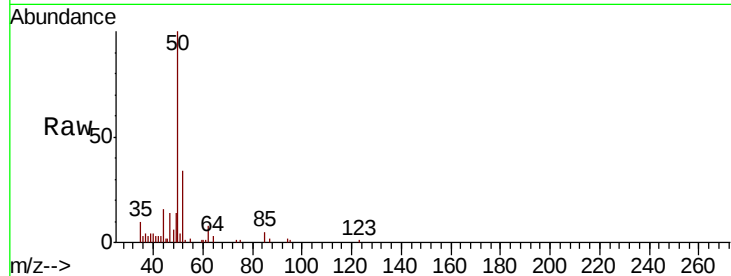




#3
Chloromethane
Concen: 21.919 ug/l
RT: 1.11 min Scan# 49
Delta R.T. 0.00 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

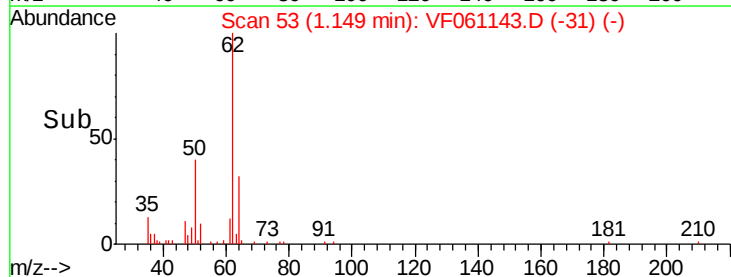
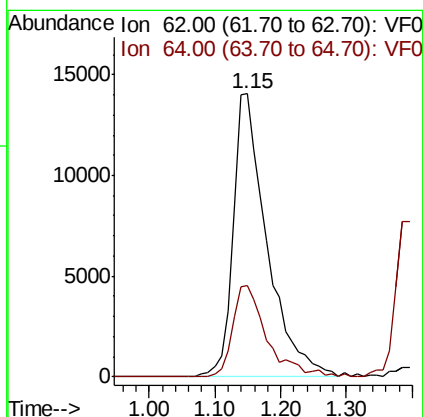
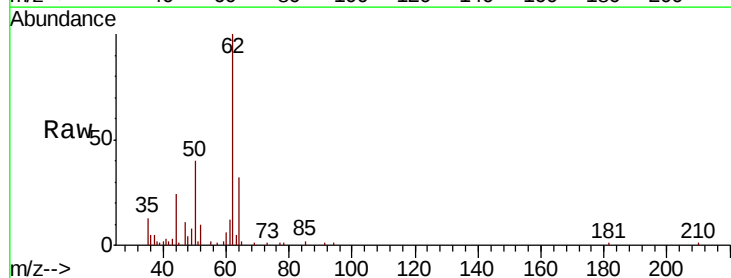
Instrument :
MSVOA_F
ClientSampled :

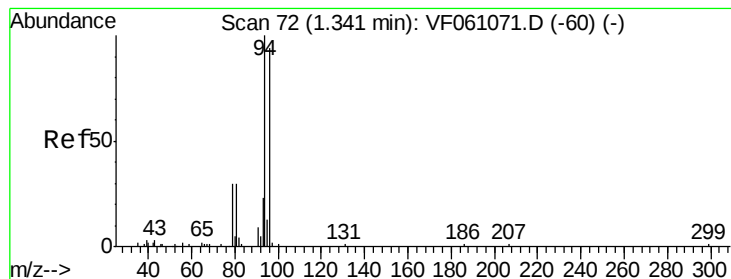
Tot Ion: 50 Resp: 54570
Ion Ratio Lower Upper
50 100
52 33.8 26.3 39.5



#4
Vinyl Chloride
Concen: 21.909 ug/l
RT: 1.15 min Scan# 53
Delta R.T. 0.01 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 62 Resp: 50598
Ion Ratio Lower Upper
62 100
64 32.5 30.4 45.6





#5

Bromomethane

Concen: 20.463 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

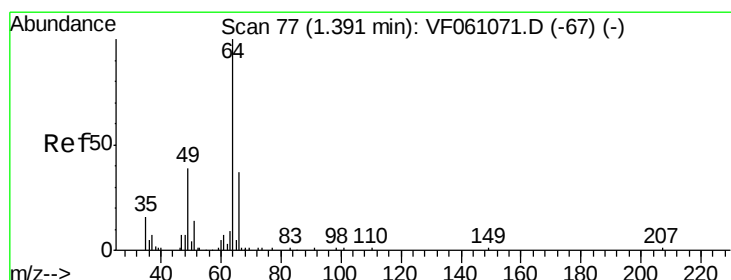
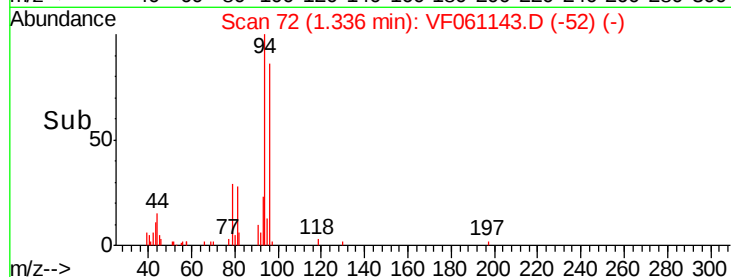
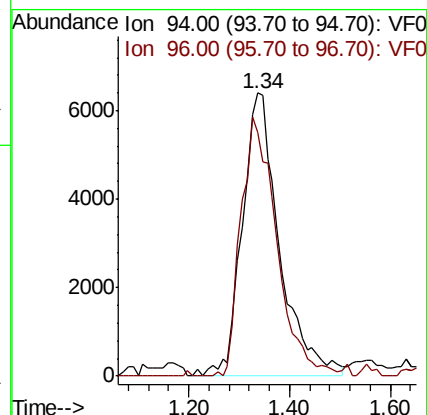
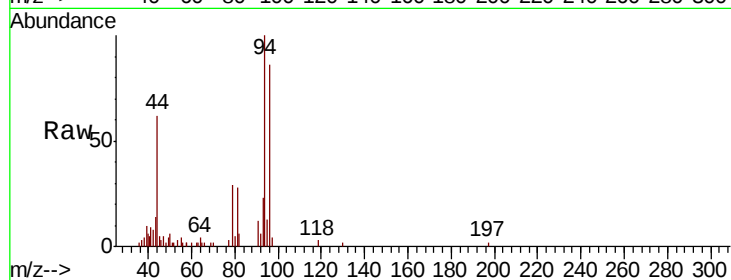
ClientSampleId :

Tot Ion: 94 Resp: 32779

Ion Ratio Lower Upper

94 100

96 85.9 74.4 111.6



#6

Chloroethane

Concen: 20.830 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061143.D

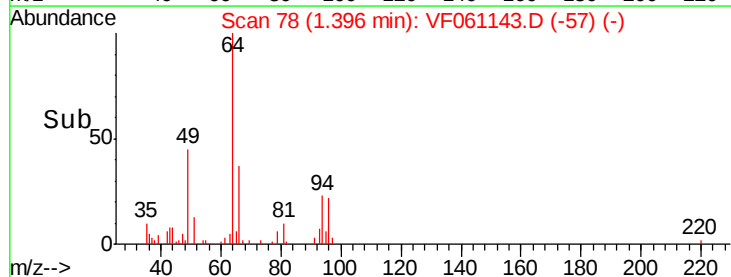
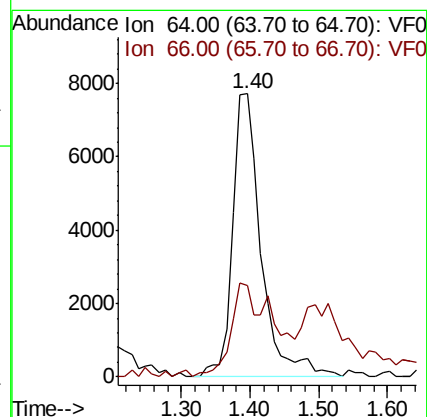
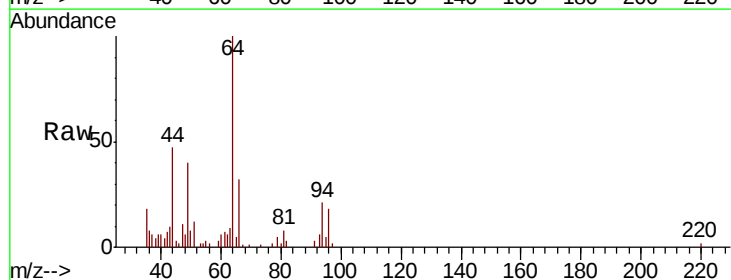
Acq: 22 Dec 2018 14:33

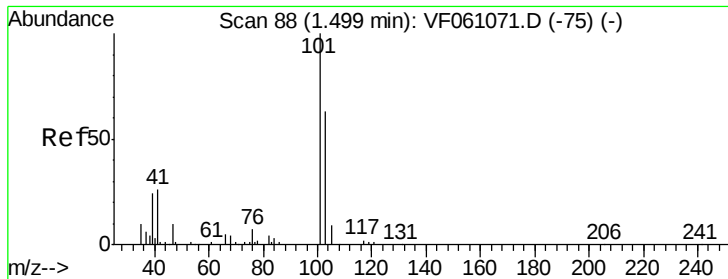
Tgt Ion: 64 Resp: 22166

Ion Ratio Lower Upper

64 100

66 32.1 30.9 46.3





#7

Trichlorofluoromethane

Concen: 19.937 ug/l

RT: 1.49 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

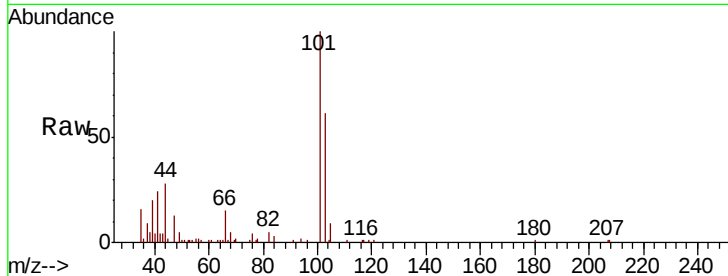
ClientSampleId :

Tot Ion:101 Resp: 87917

Ion Ratio Lower Upper

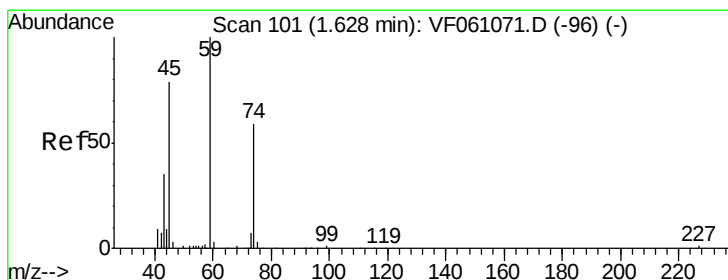
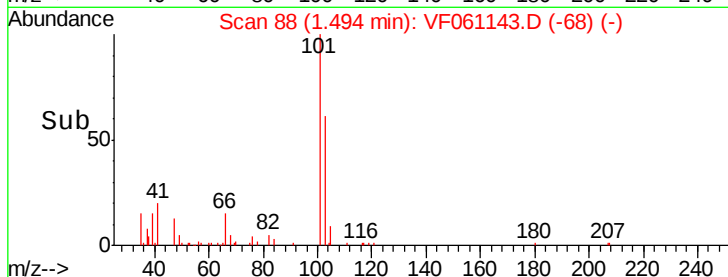
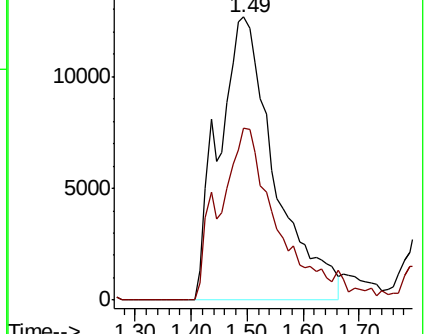
101 100

103 60.7 50.7 76.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 22.208 ug/l

RT: 1.64 min Scan# 103

Delta R.T. 0.01 min

Lab File: VF061143.D

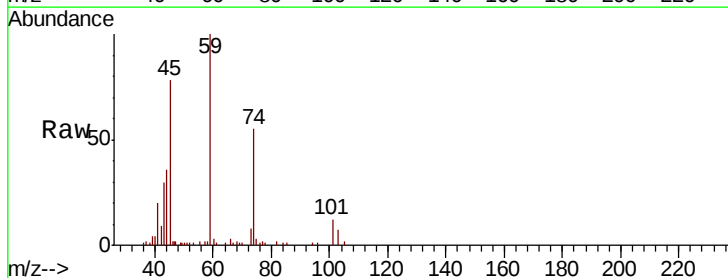
Acq: 22 Dec 2018 14:33

Tgt Ion: 74 Resp: 13410

Ion Ratio Lower Upper

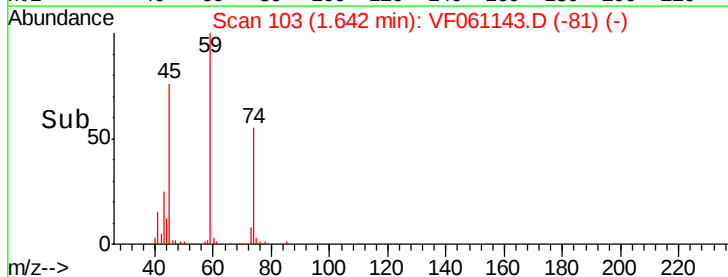
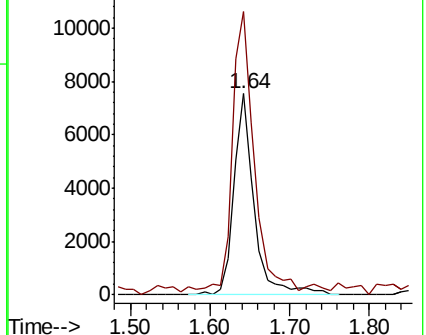
74 100

45 140.6 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.343 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.00 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampled :

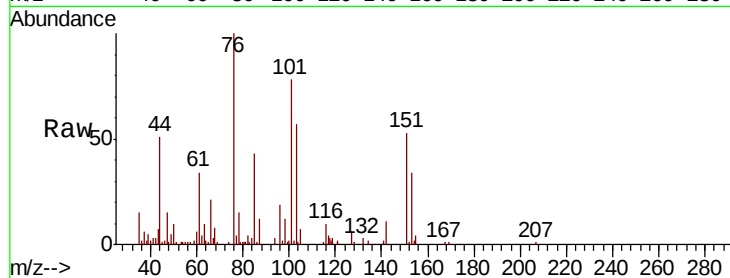
Tot Ion:101 Resp: 46512

Ion Ratio Lower Upper

101 100

85 55.3 44.5 66.7

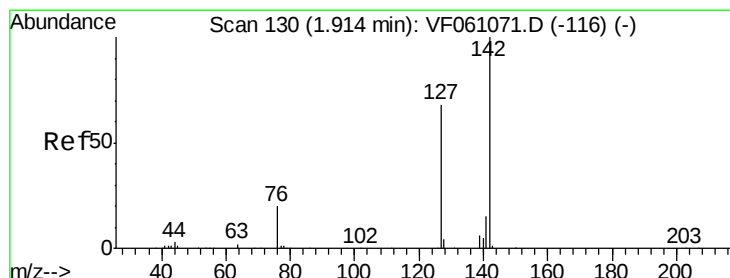
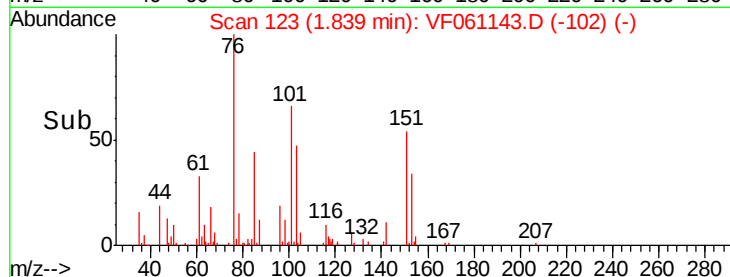
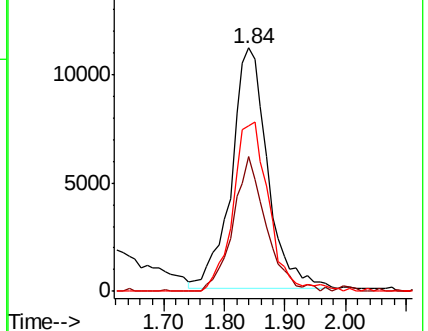
151 68.2 49.9 74.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 16.651 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

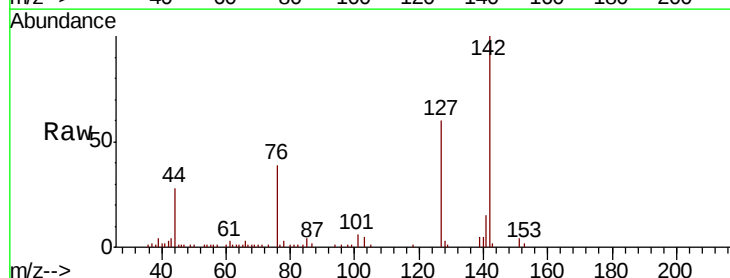
Tgt Ion:142 Resp: 60009

Ion Ratio Lower Upper

142 100

127 60.2 54.7 82.1

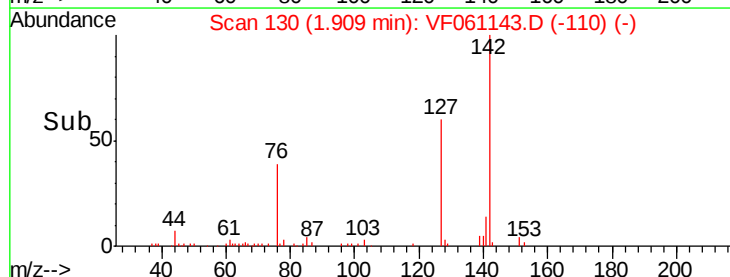
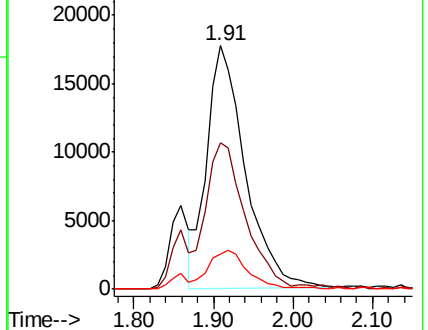
141 14.6 12.2 18.2

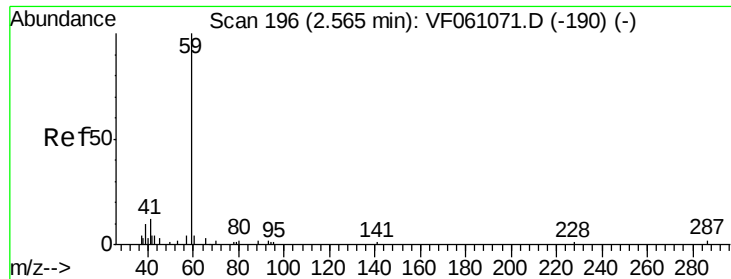


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

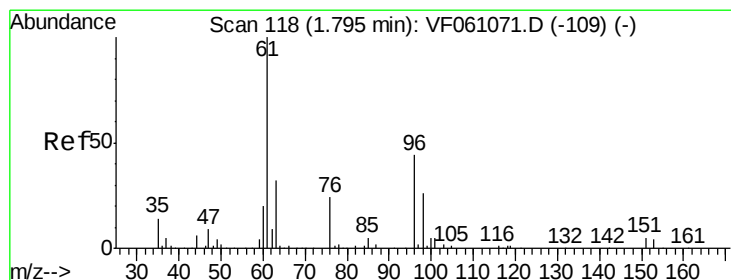
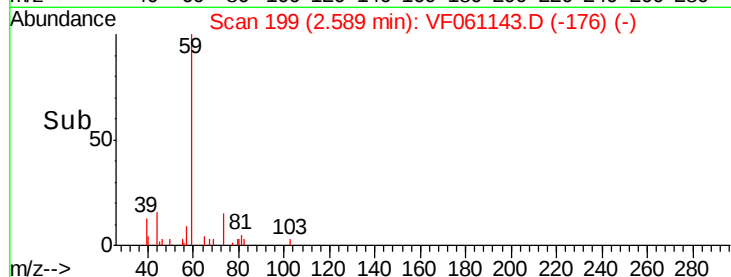
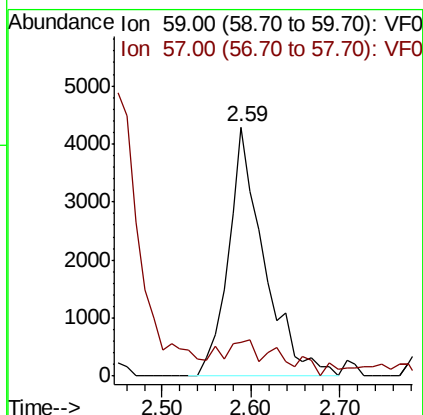
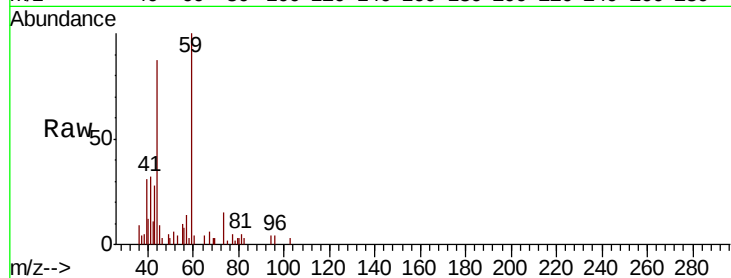




#11
Tert butyl alcohol
Concen: 118.095 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

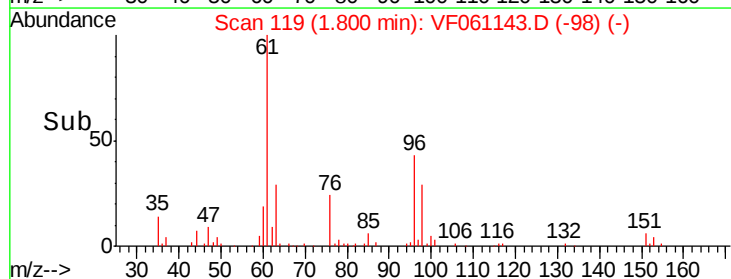
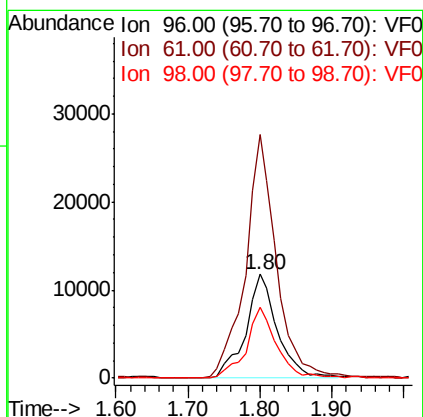
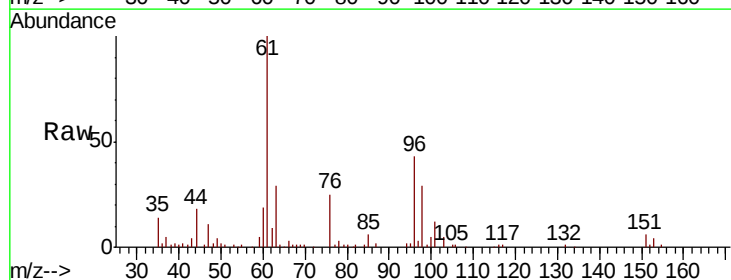
Instrument :
MSVOA_F
ClientSampled :

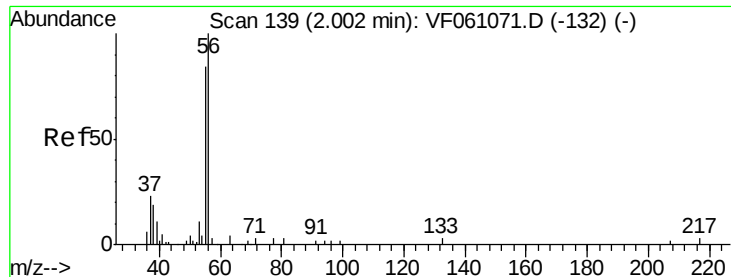
Tot Ion: 59 Resp: 11984
Ion Ratio Lower Upper
59 100
57 13.7 11.5 17.3



#12
1,1-Dichloroethene
Concen: 20.838 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 96 Resp: 35914
Ion Ratio Lower Upper
96 100
61 234.0 182.0 273.0
98 68.4 46.5 69.7

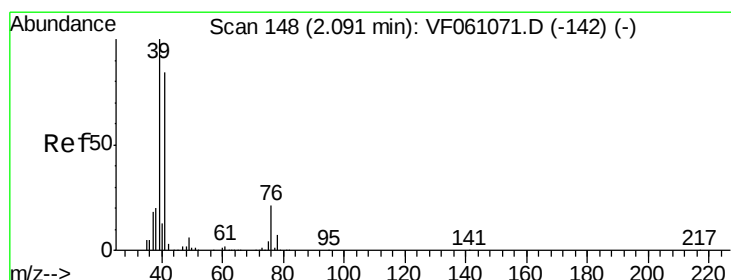
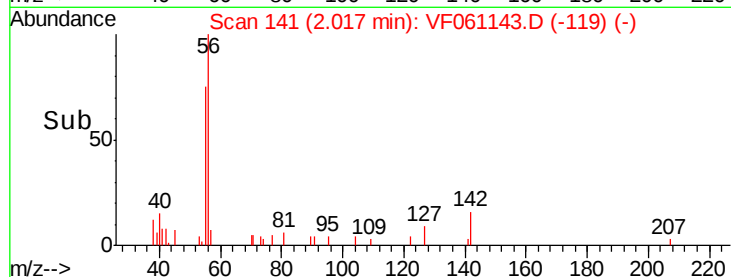
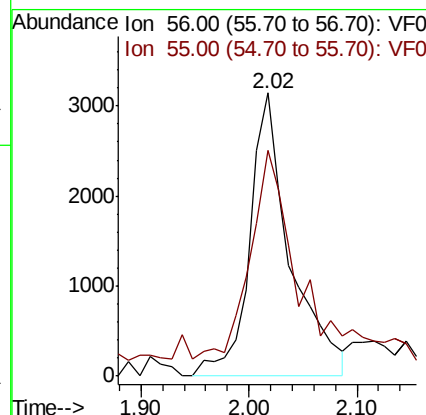
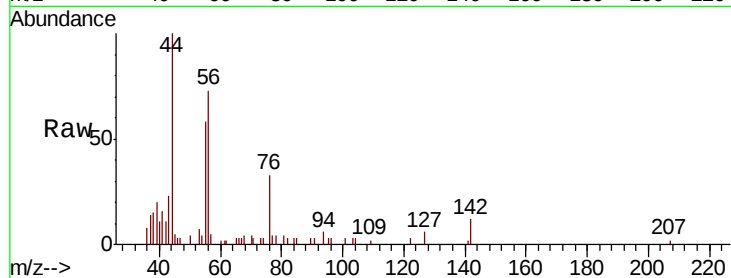




#13
Acrolein
Concen: 112.060 ug/l
RT: 2.02 min Scan# 141
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

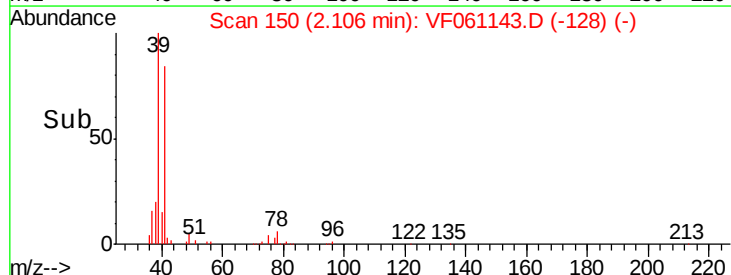
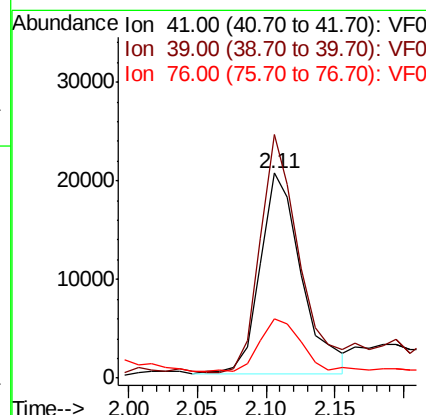
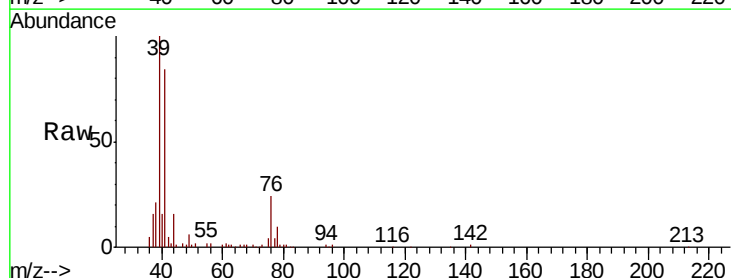
Instrument :
MSVOA_F
ClientSampleId :

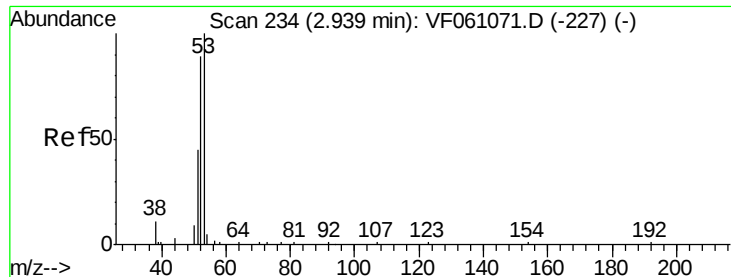
Tot Ion: 56 Resp: 8217
Ion Ratio Lower Upper
56 100
55 80.0 70.2 105.2



#14
Allyl chloride
Concen: 23.687 ug/l
RT: 2.11 min Scan# 150
Delta R.T. 0.01 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 41 Resp: 42484
Ion Ratio Lower Upper
41 100
39 118.7 96.4 144.6
76 28.8 25.4 38.0





#15

Acrylonitrile

Concen: 119.350 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampleId :

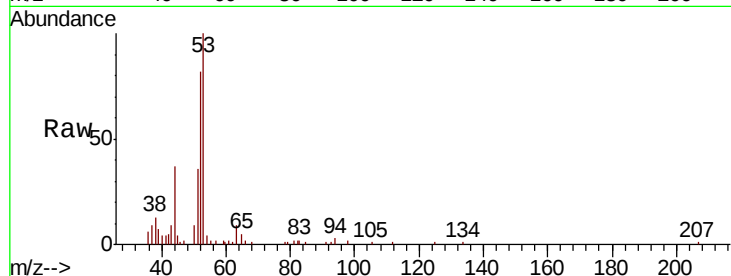
Tot Ion: 53 Resp: 28006

Ion Ratio Lower Upper

53 100

52 81.6 71.3 106.9

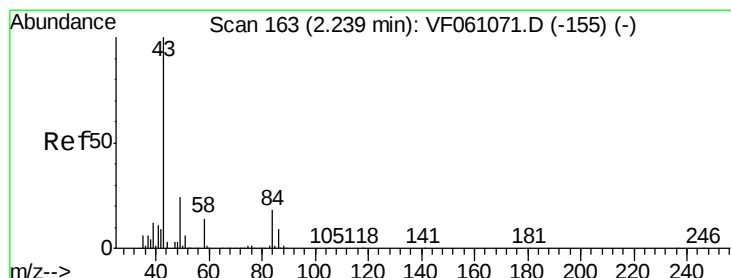
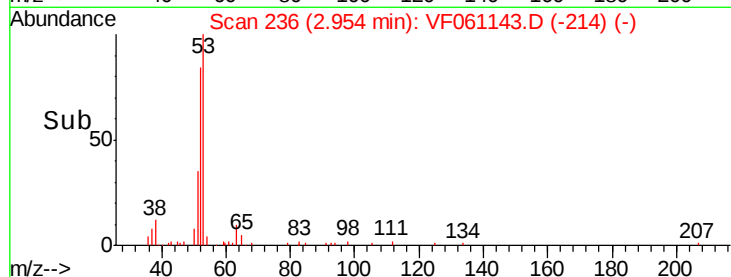
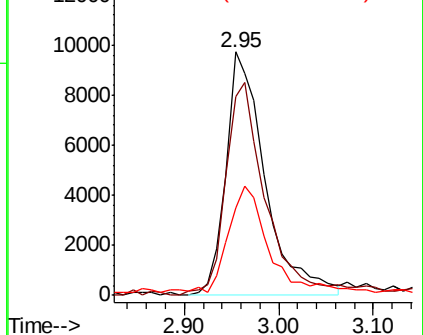
51 35.9 36.8 55.2#



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: 113.602 ug/l

RT: 2.25 min Scan# 165

Delta R.T. 0.01 min

Lab File: VF061143.D

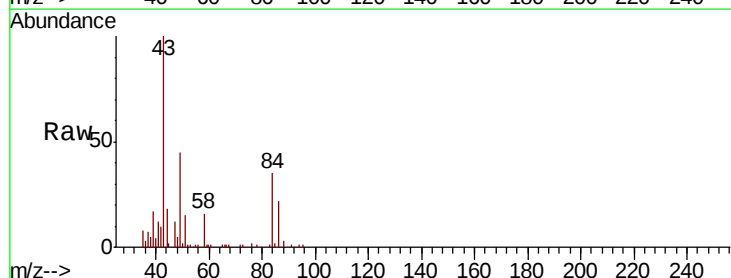
Acq: 22 Dec 2018 14:33

Tgt Ion: 43 Resp: 57109

Ion Ratio Lower Upper

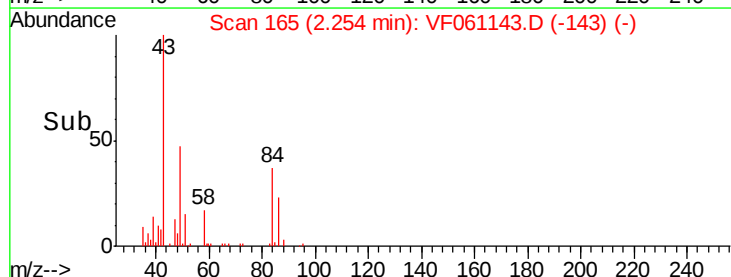
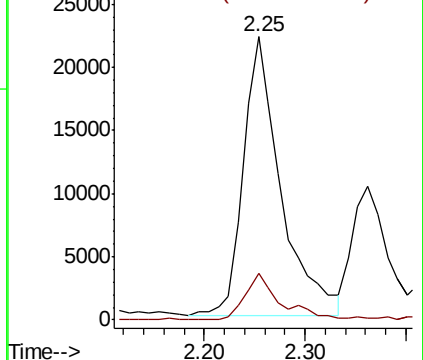
43 100

58 16.4 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 20.062 ug/l

RT: 1.85 min Scan# 124

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

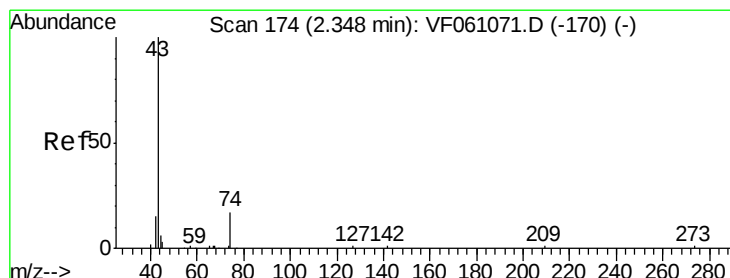
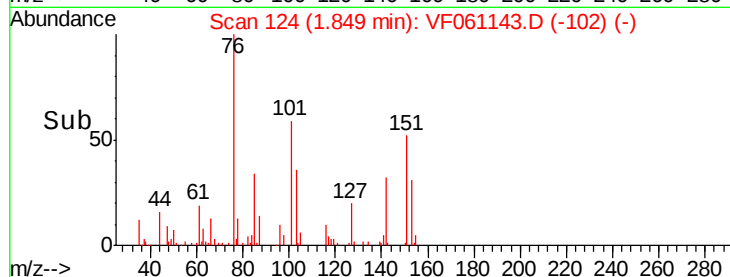
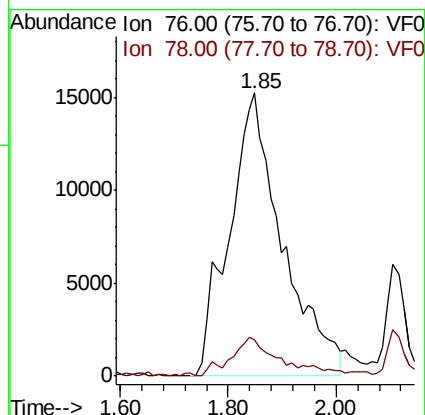
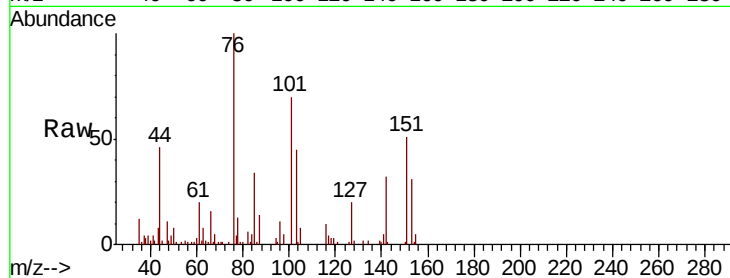
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 76 Resp: 104488

Ion Ratio Lower Upper

76 100

78 12.7 10.2 15.4



#18

Methyl Acetate

Concen: 20.562 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF061143.D

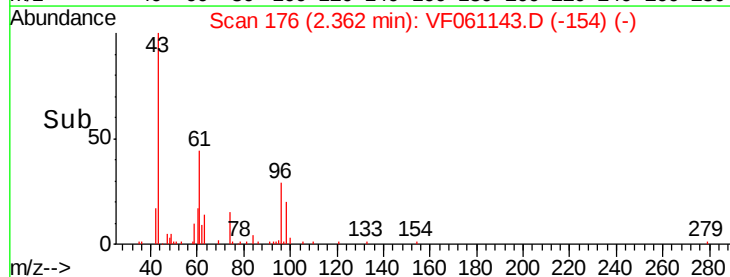
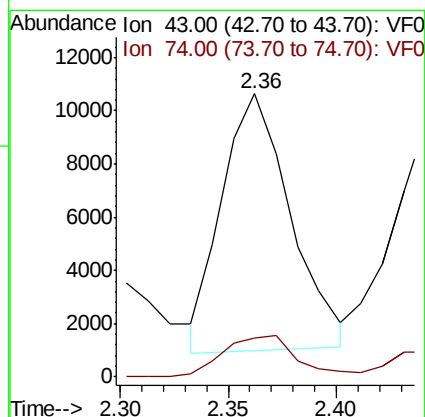
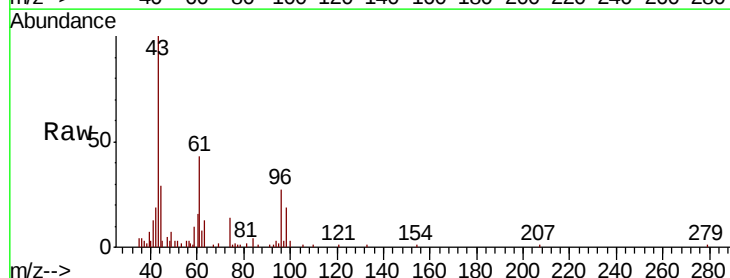
Acq: 22 Dec 2018 14:33

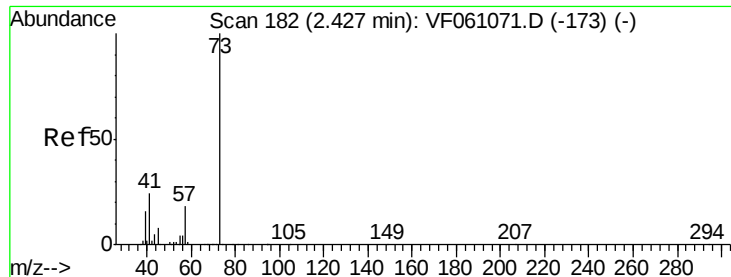
Tgt Ion: 43 Resp: 21386

Ion Ratio Lower Upper

43 100

74 13.9 11.0 16.6

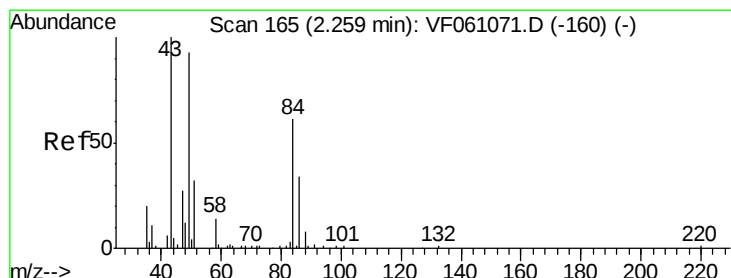
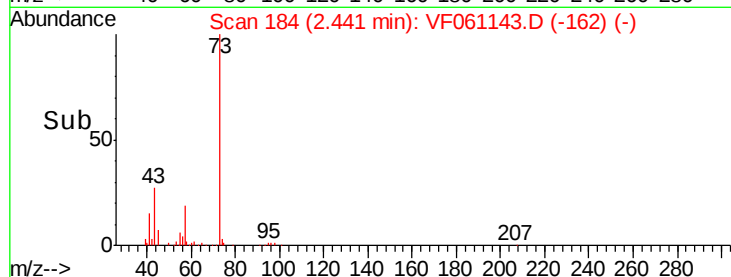
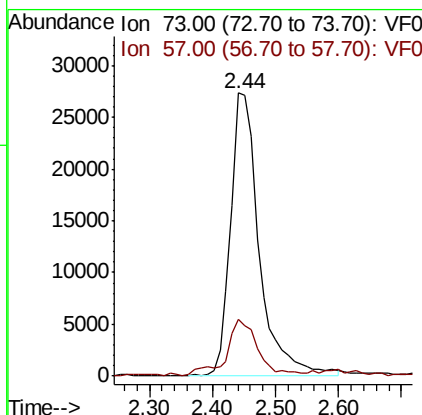
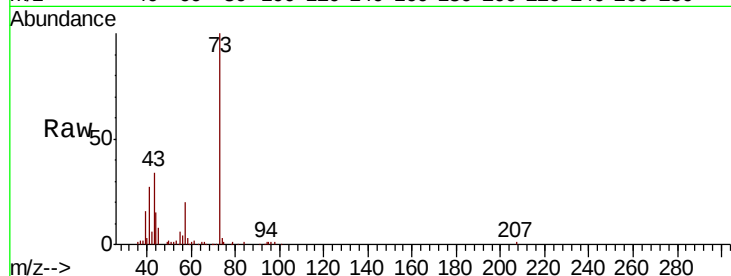




#19
Methvl tert-butvl Ether
Concen: 22.527 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

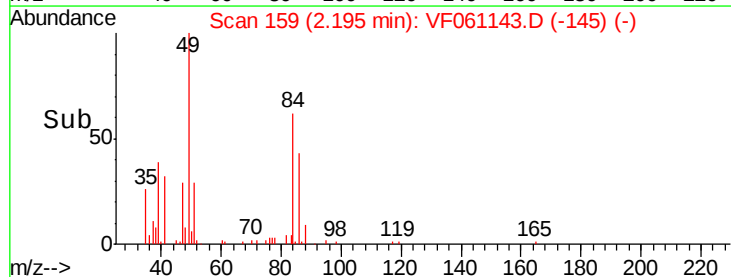
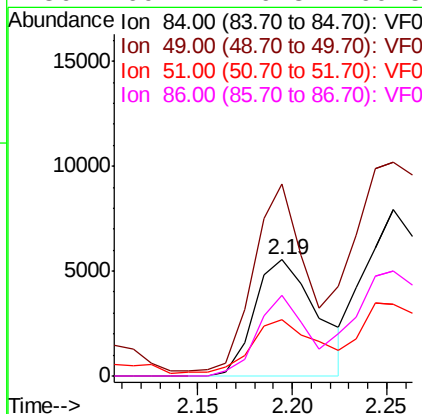
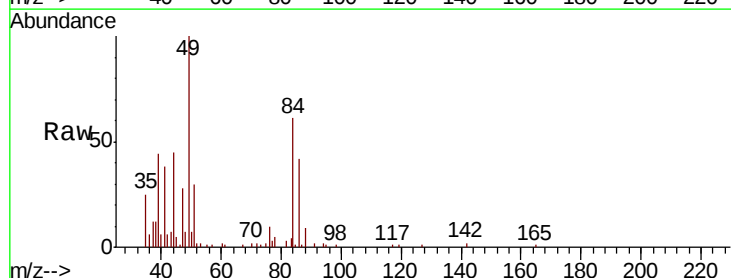
Instrument :
MSVOA_F
ClientSampleId :

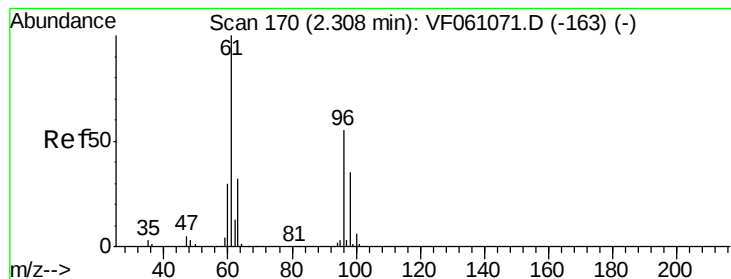
Tot Ion: 73 Resp: 86177
Ion Ratio Lower Upper
73 100
57 20.0 14.5 21.7



#20
Methylene Chloride
Concen: 3.798 ug/l
RT: 2.19 min Scan# 159
Delta R.T. -0.06 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 84 Resp: 12769
Ion Ratio Lower Upper
84 100
49 165.0 129.4 194.2
51 49.0 44.0 66.0
86 69.4 46.3 69.5





#21

trans-1,2-Dichloroethene

Concen: 20.079 ug/l

RT: 2.32 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :
MSVOA_F
ClientSampleId :

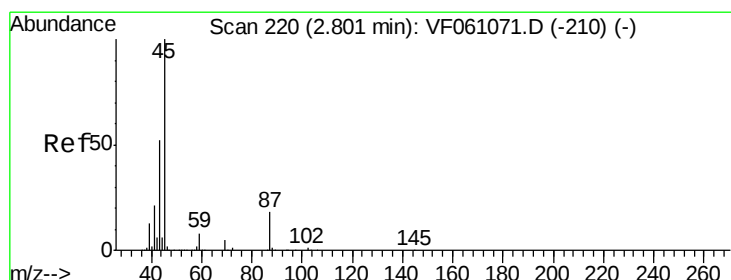
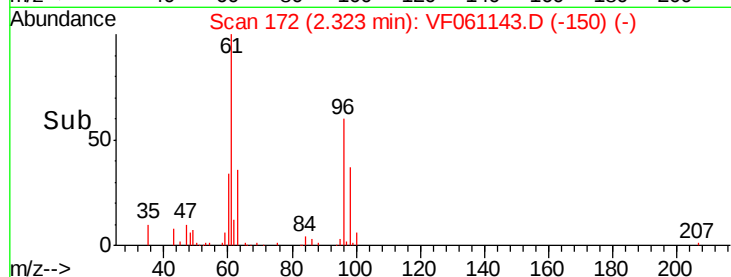
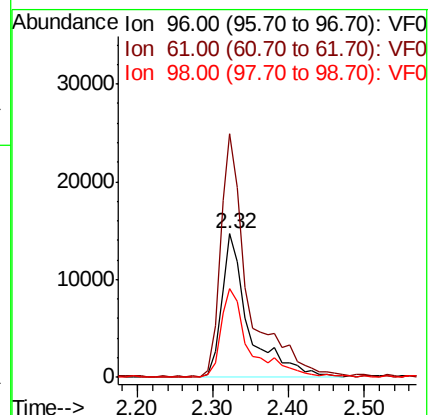
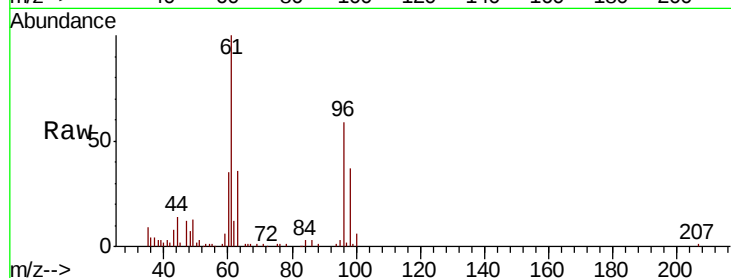
Tot Ion: 96 Resp: 37013

Ion Ratio Lower Upper

96 100

61 169.4 146.0 219.0

98 62.1 51.6 77.4



#22

Diisopropyl ether

Concen: 22.296 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Tgt Ion: 45 Resp: 133206

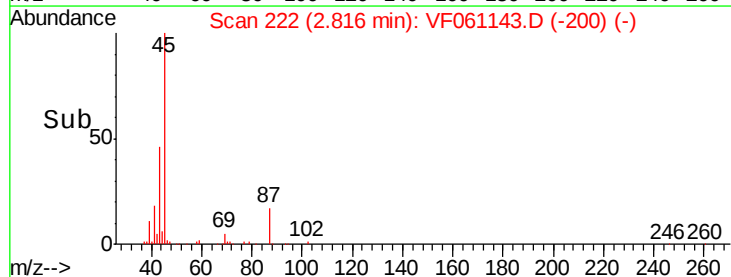
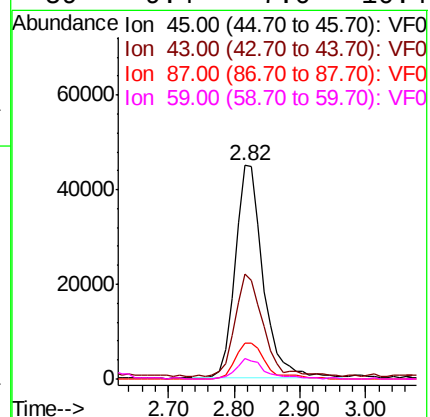
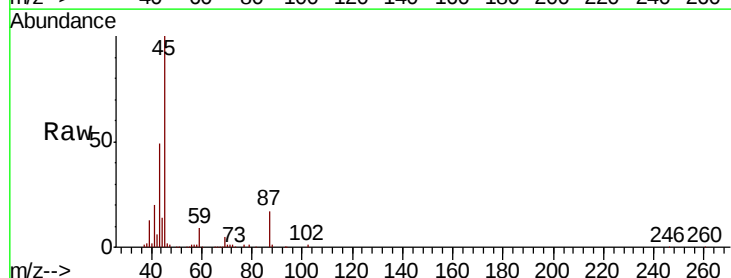
Ion Ratio Lower Upper

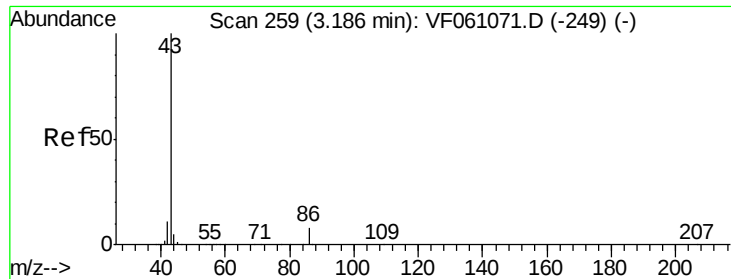
45 100

43 49.0 42.2 63.2

87 16.6 14.6 22.0

59 9.4 7.0 10.4

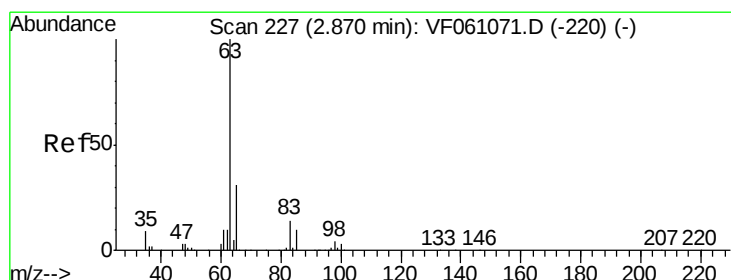
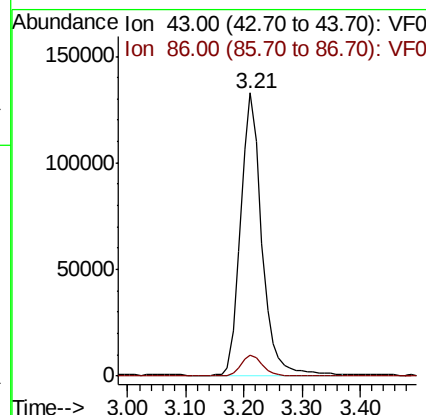
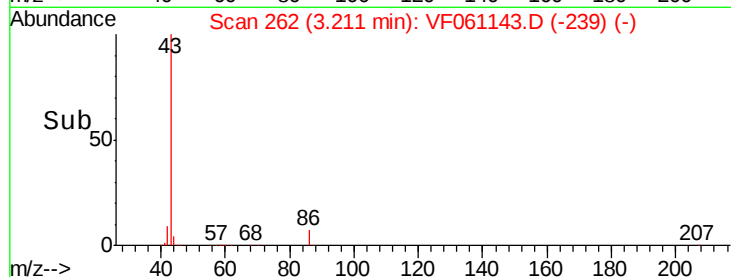
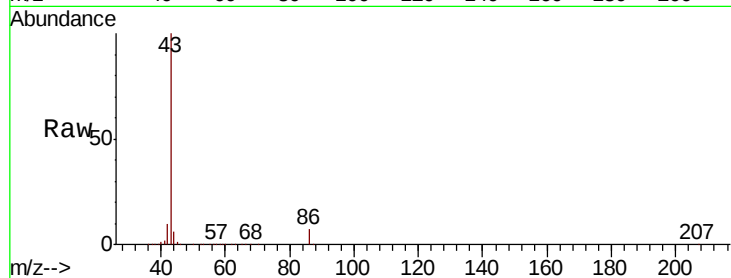




#23
 Vinyl Acetate
 Concen: 121.537 ug/l
 RT: 3.21 min Scan# 262
 Delta R.T. 0.02 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

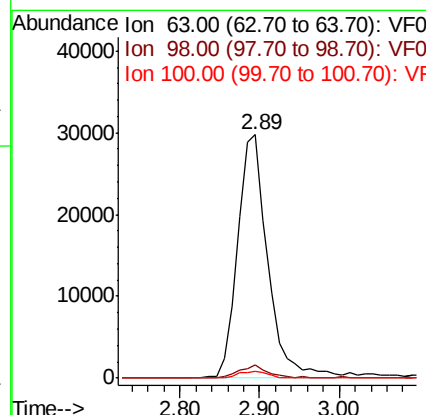
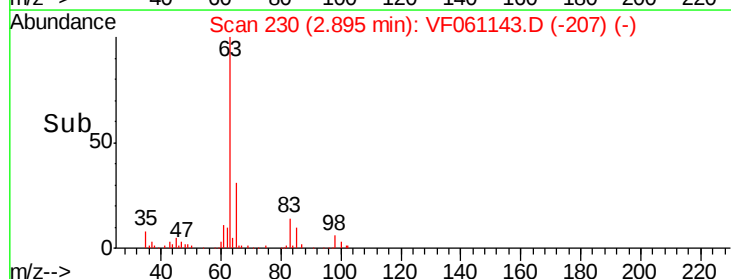
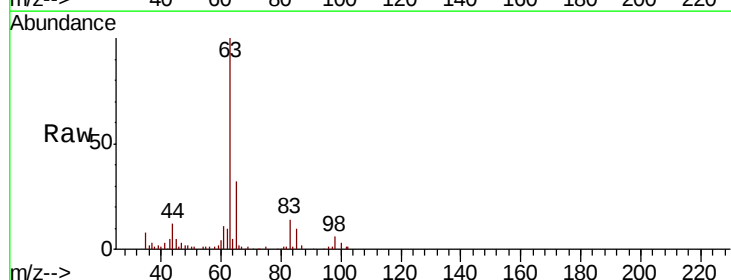
Instrument :
 MSVOA_F
 ClientSampled :

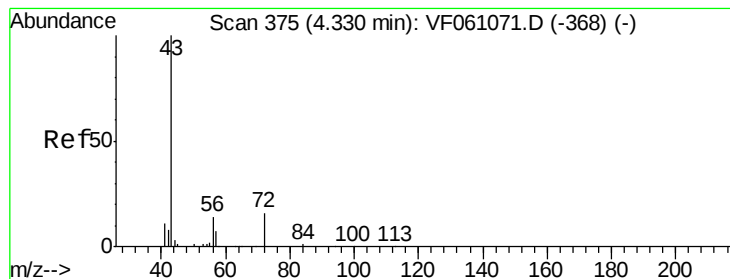
Tot Ion: 43 Resp: 334969
 Ion Ratio Lower Upper
 43 100
 86 7.4 6.3 9.5



#24
 1,1-Dichloroethane
 Concen: 22.188 ug/l
 RT: 2.89 min Scan# 230
 Delta R.T. 0.02 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Tgt Ion: 63 Resp: 78539
 Ion Ratio Lower Upper
 63 100
 98 5.5 2.1 6.5
 100 2.9 1.7 5.1





#25

2-Butanone

Concen: 120.201 ug/l

RT: 4.36 min Scan# 379

Delta R.T. 0.03 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

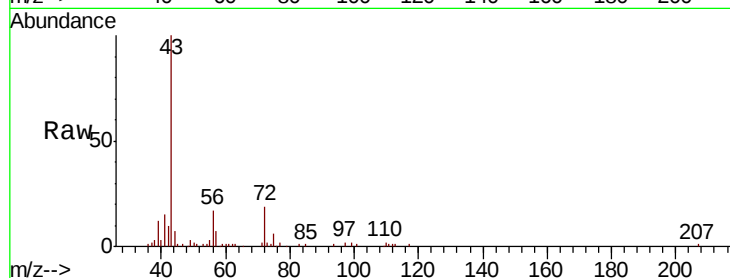
ClientSampled :

Tot Ion: 43 Resp: 98000

Ion Ratio Lower Upper

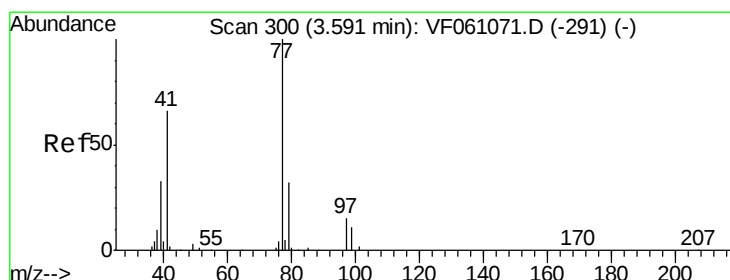
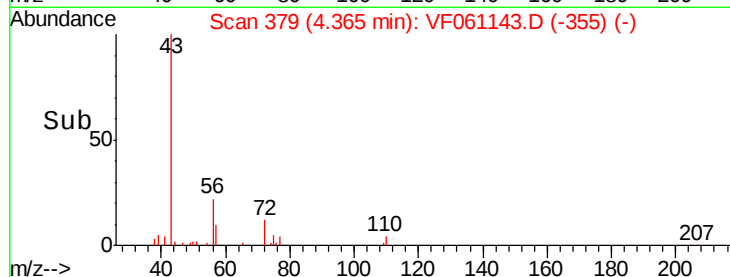
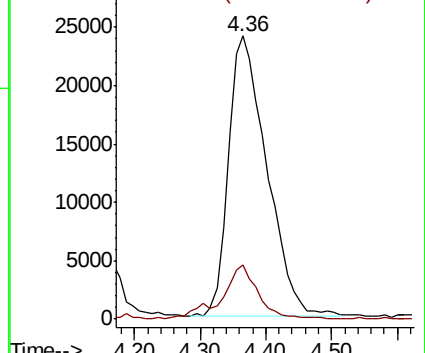
43 100

72 19.1 15.6 23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 21.514 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.02 min

Lab File: VF061143.D

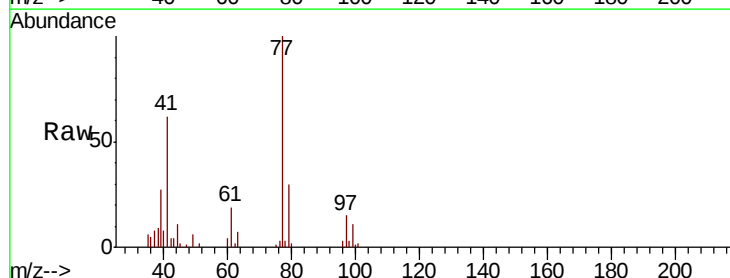
Acq: 22 Dec 2018 14:33

Tgt Ion: 77 Resp: 43704

Ion Ratio Lower Upper

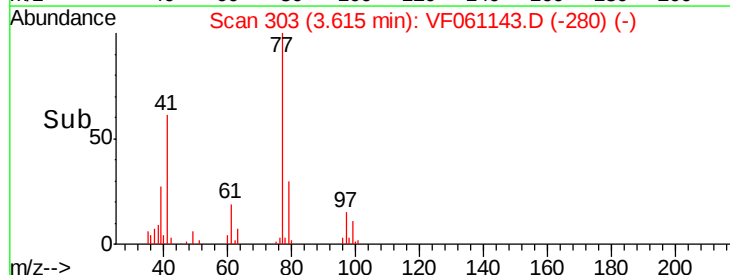
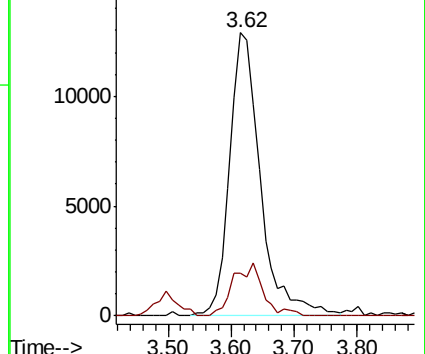
77 100

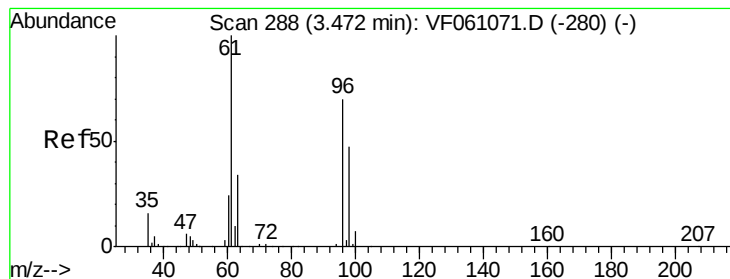
97 15.3 8.2 24.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



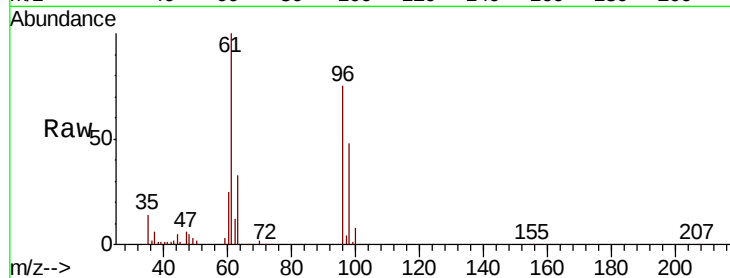


#27

cis-1,2-Dichloroethene
Concen: 21.368 ug/l
RT: 3.50 min Scan# 291
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.1	0.0	287.8
98	64.2	0.0	134.2

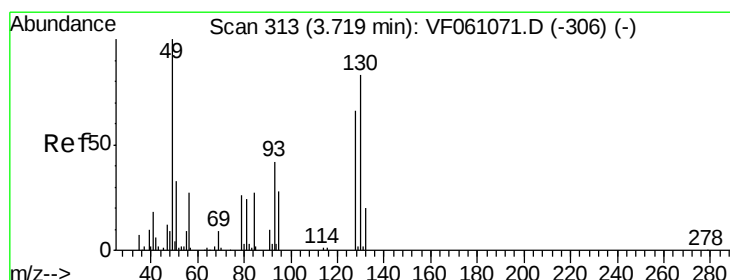
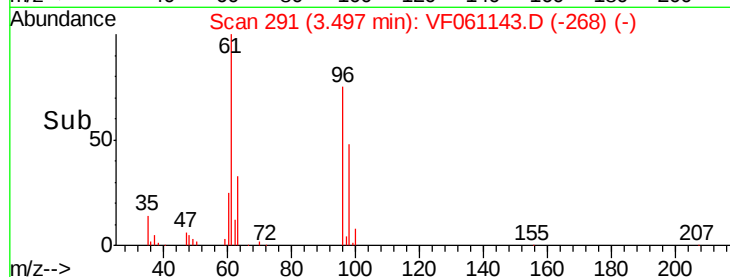
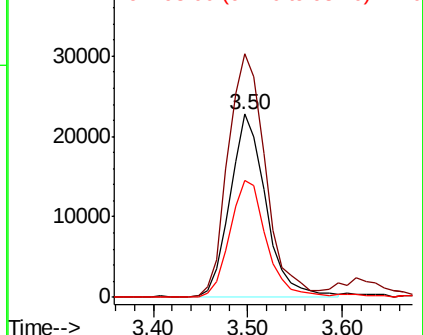


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

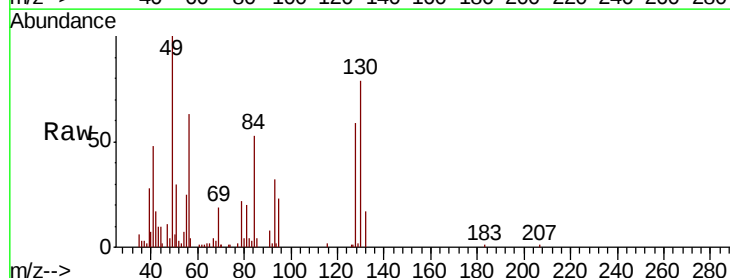
Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane
Concen: 22.439 ug/l
RT: 3.75 min Scan# 317
Delta R.T. 0.03 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.6
130	78.7	65.8	98.6

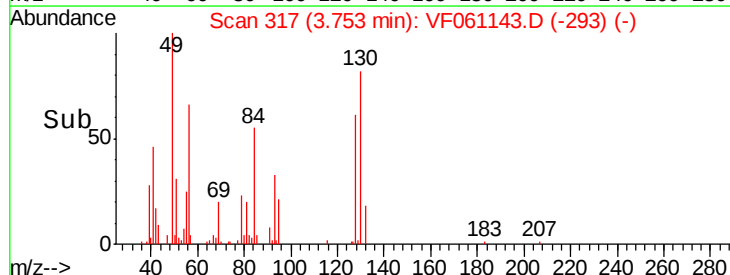
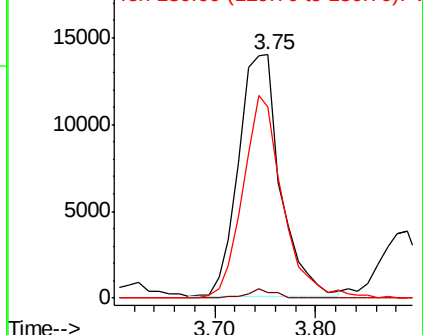


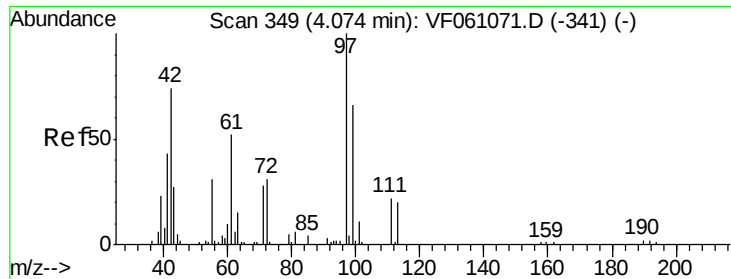
Abundance

Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 121.849 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.03 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampleId :

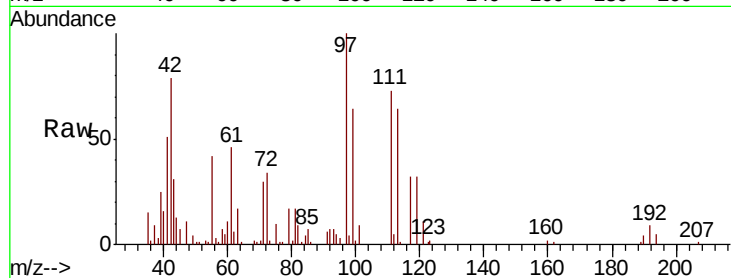
Tot Ion: 42 Resp: 40434

Ion Ratio Lower Upper

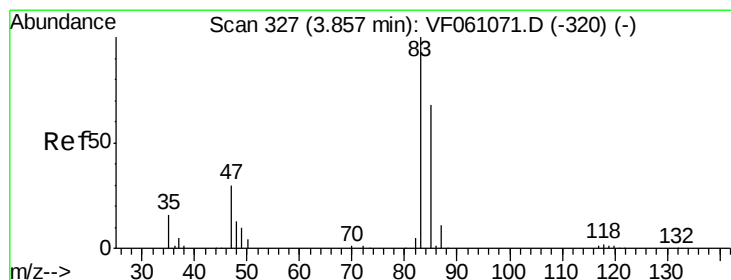
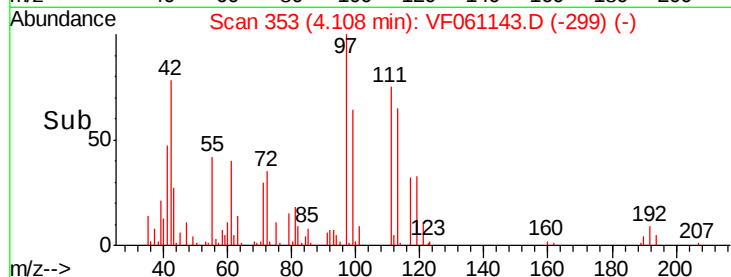
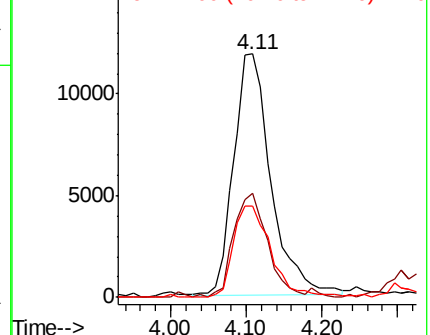
42 100

72 39.3 31.8 47.8

71 38.7 29.7 44.5



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: 20.375 ug/l

RT: 3.88 min Scan# 330

Delta R.T. 0.02 min

Lab File: VF061143.D

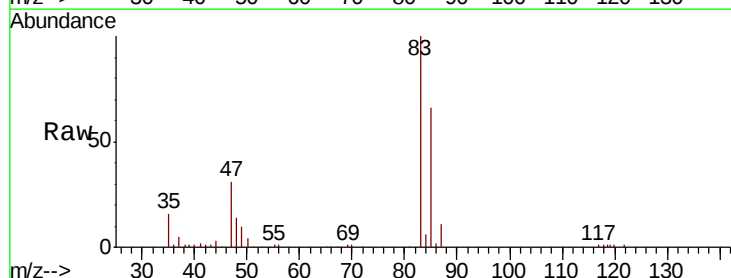
Acq: 22 Dec 2018 14:33

Tgt Ion: 83 Resp: 108144

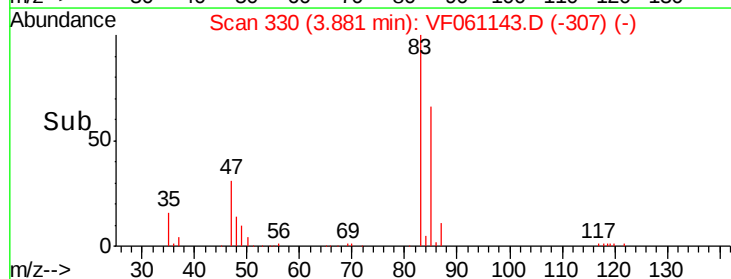
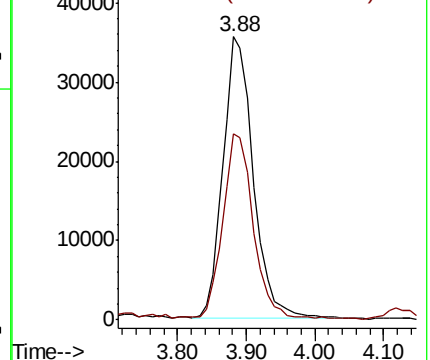
Ion Ratio Lower Upper

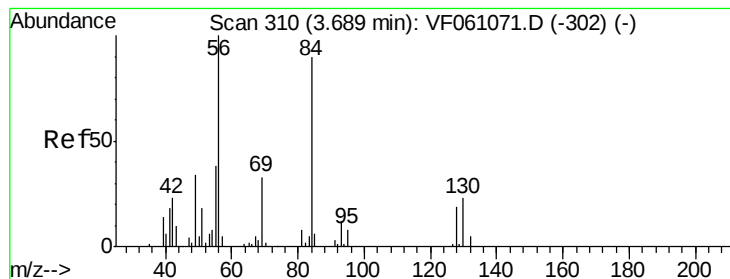
83 100

85 65.6 54.5 81.7



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





#31

Cyclohexane

Concen: 22.563 ug/l

RT: 3.71 min Scan# 313

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :
MSVOA_F
ClientSampleId :

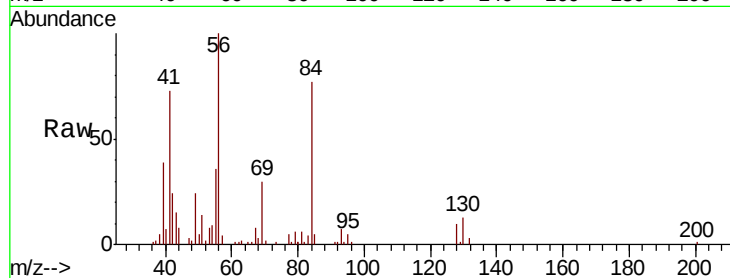
Tot Ion: 56 Resp: 82875

Ion Ratio Lower Upper

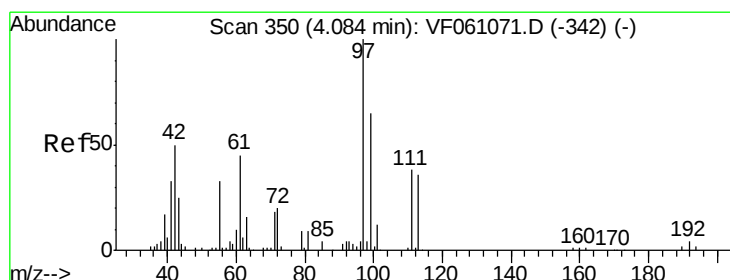
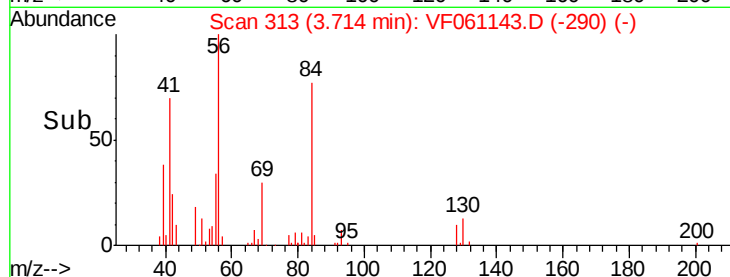
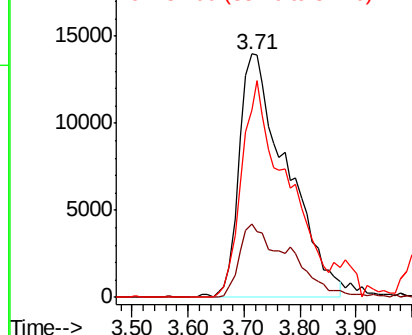
56 100

69 30.2 26.0 39.0

84 76.8 71.4 107.2



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



#32

1,1,1-Trichloroethane

Concen: 21.091 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.03 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

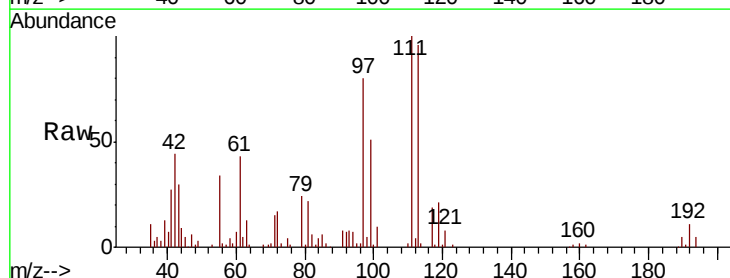
Tgt Ion: 97 Resp: 67098

Ion Ratio Lower Upper

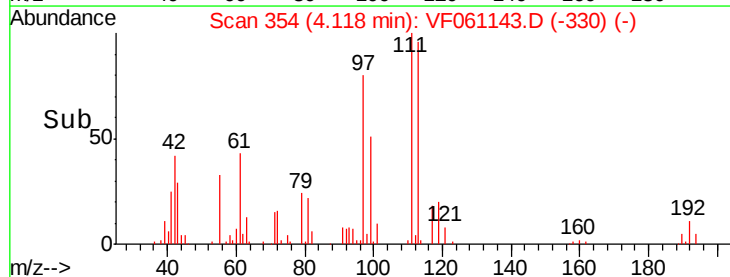
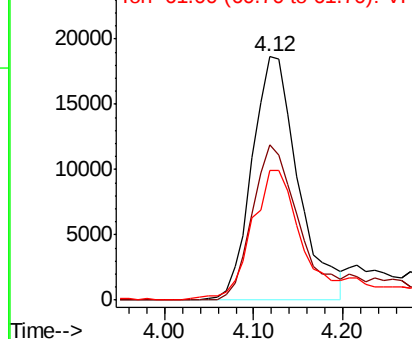
97 100

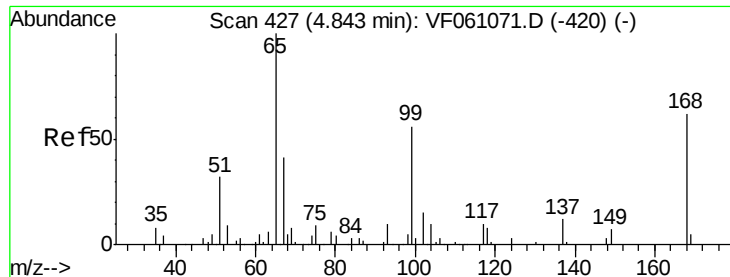
99 64.0 51.6 77.4

61 53.3 36.2 54.2



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





#33

1,2-Dichloroethane-d4

Concen: 48.701 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

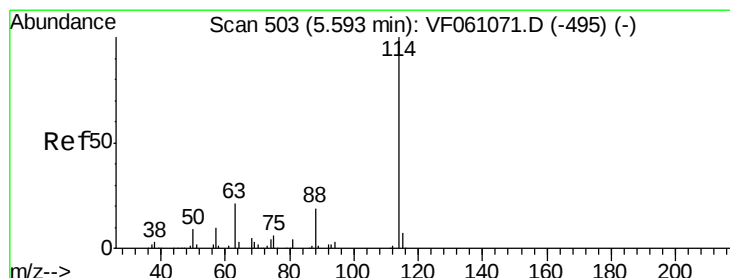
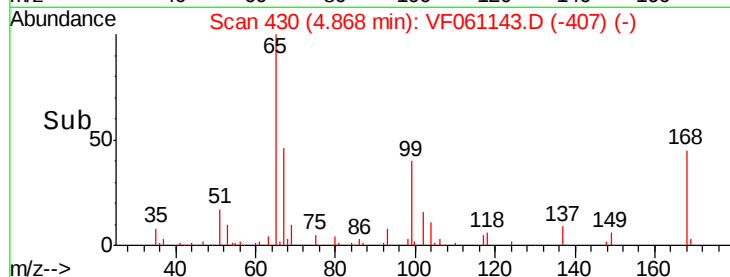
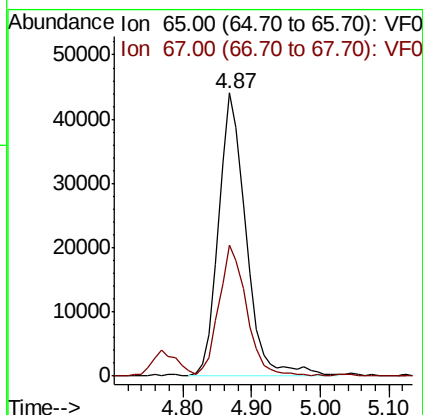
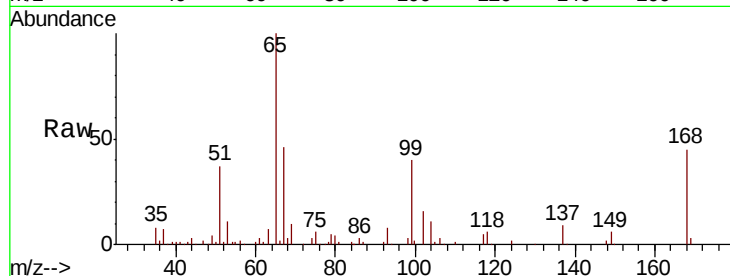
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 122467

Ion Ratio Lower Upper

65 100

67 46.4 0.0 94.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. 0.03 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

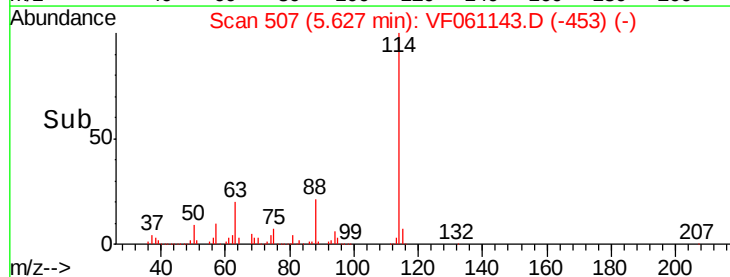
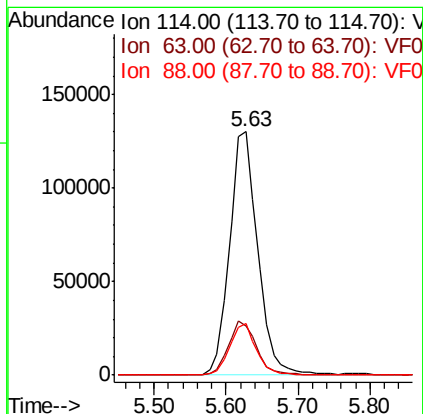
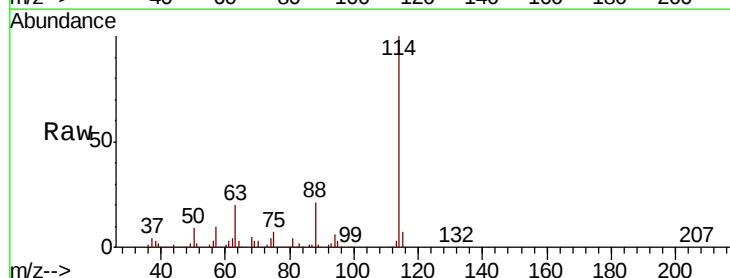
Tgt Ion: 114 Resp: 355333

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.6

88 21.0 0.0 38.0





#35

Dibromofluoromethane

Concen: 45.905 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :
MSVOA_F
ClientSampleId :

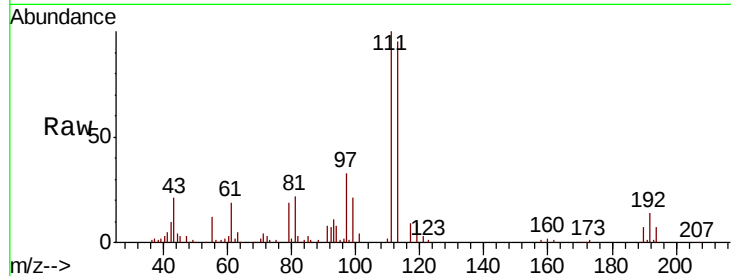
Tot Ion:113 Resp: 130665

Ion Ratio Lower Upper

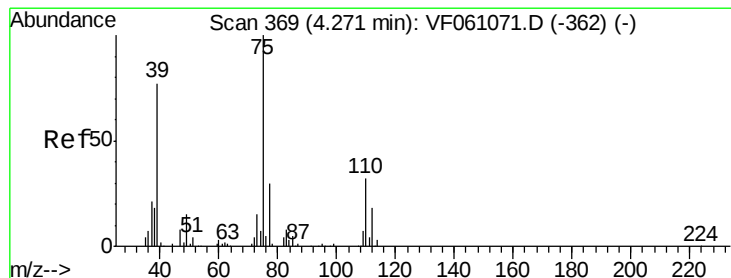
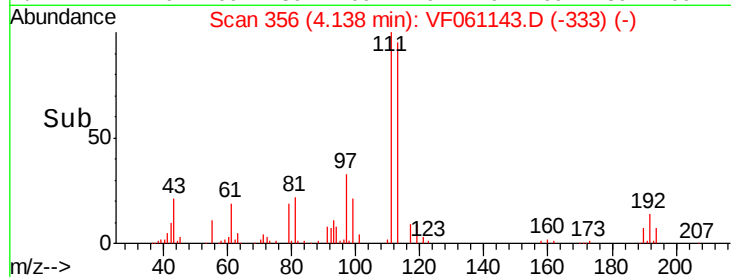
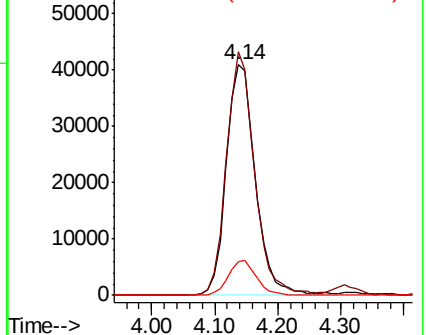
113 100

111 105.7 85.2 127.8

192 14.9 12.8 19.2



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 19.471 ug/l

RT: 4.31 min Scan# 373

Delta R.T. 0.03 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

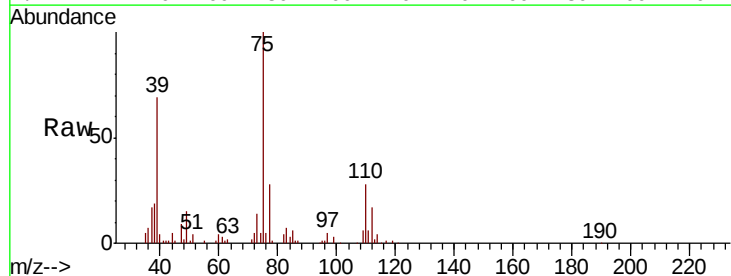
Tgt Ion: 75 Resp: 83512

Ion Ratio Lower Upper

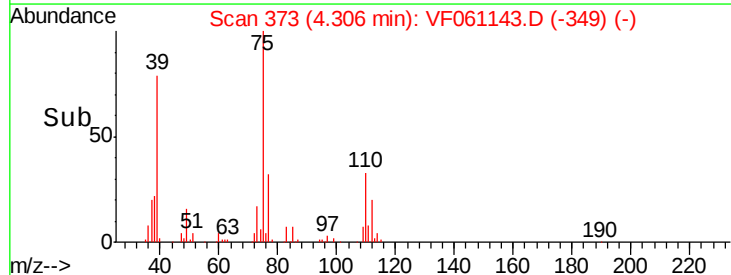
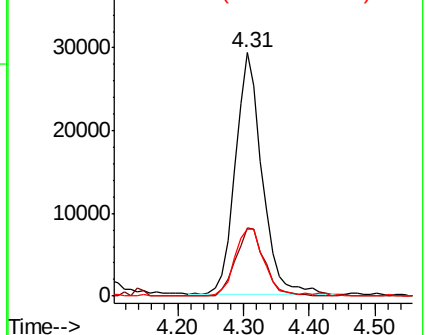
75 100

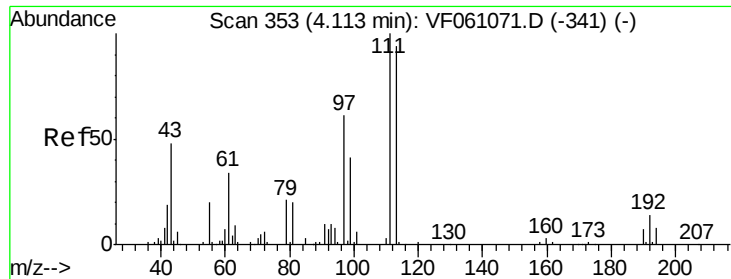
110 27.9 16.1 48.2

77 27.5 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0

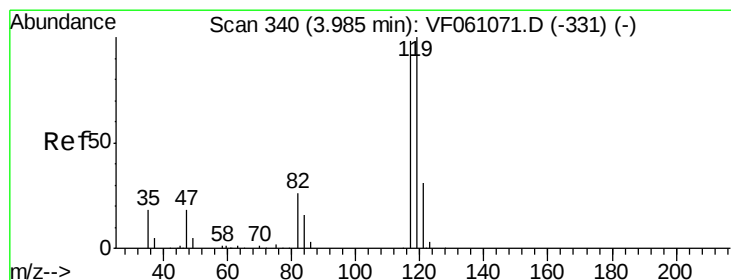
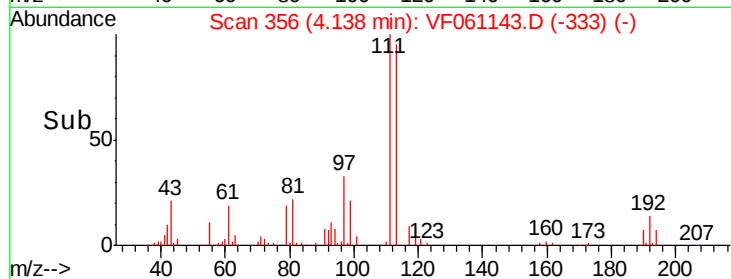
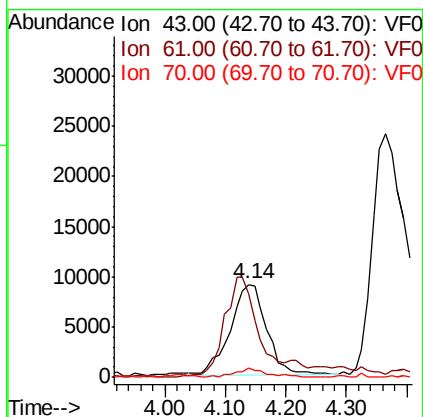
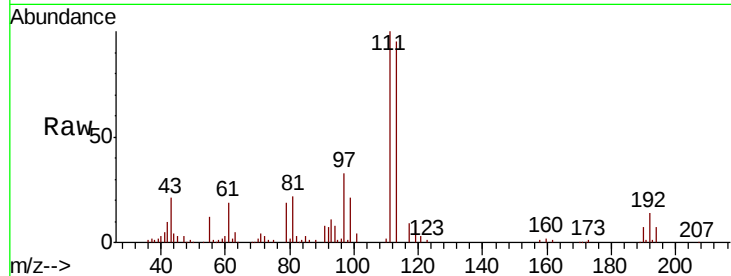




#37
Ethyl Acetate
Concen: 20.433 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

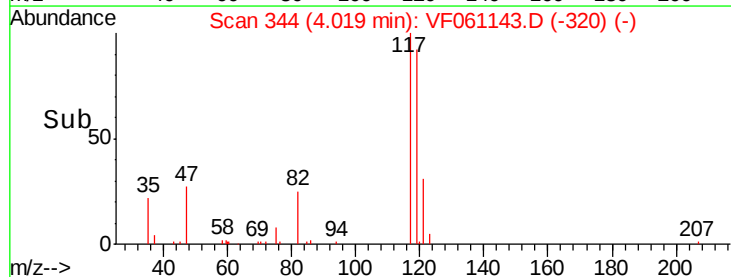
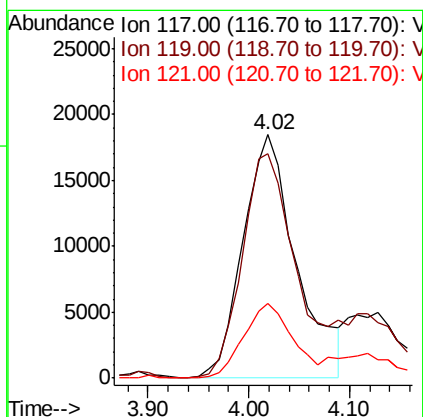
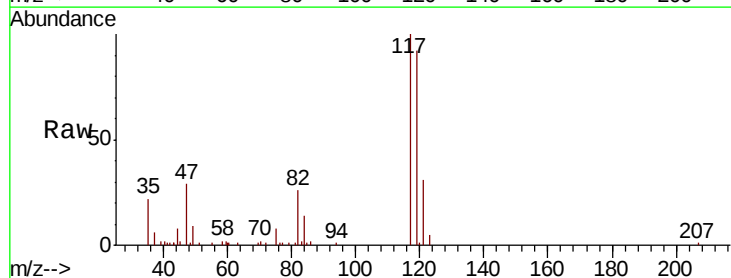
Instrument :
MSVOA_F
ClientSampleId :

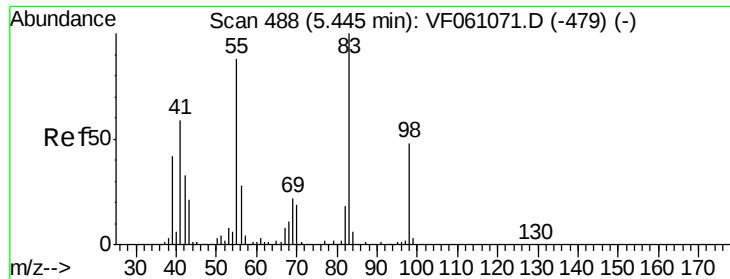
Tot Ion: 43 Resp: 37740
Ion Ratio Lower Upper
43 100
61 89.7 56.6 84.8#
70 9.6 6.3 9.5#



#38
Carbon Tetrachloride
Concen: 20.833 ug/l
RT: 4.02 min Scan# 344
Delta R.T. 0.03 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 117 Resp: 68047
Ion Ratio Lower Upper
117 100
119 92.1 82.1 123.1
121 30.9 25.5 38.3

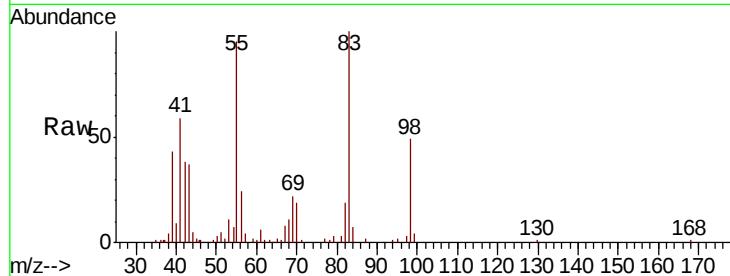




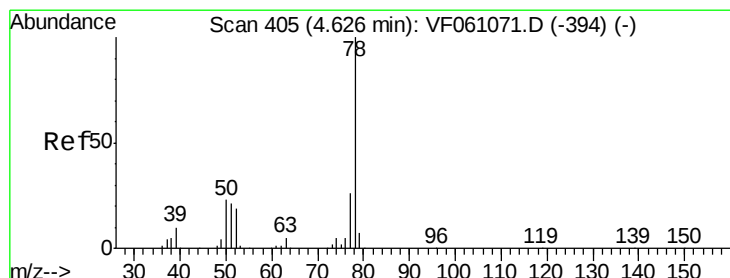
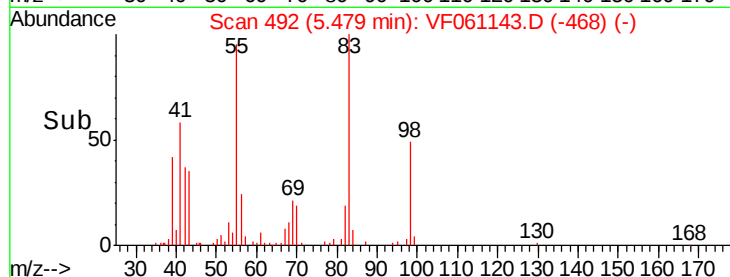
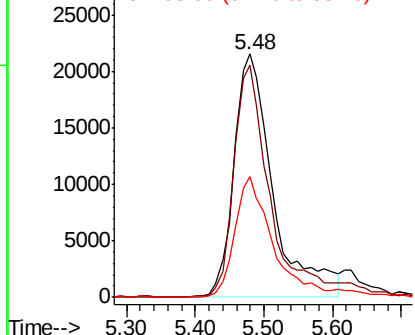
#39
Methvlcvclohexane
Concen: 22.156 ug/l
RT: 5.48 min Scan# 492
Delta R.T. 0.03 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 83 Resp: 85254
Ion Ratio Lower Upper
83 100
55 95.1 70.6 105.8
98 49.4 38.5 57.7

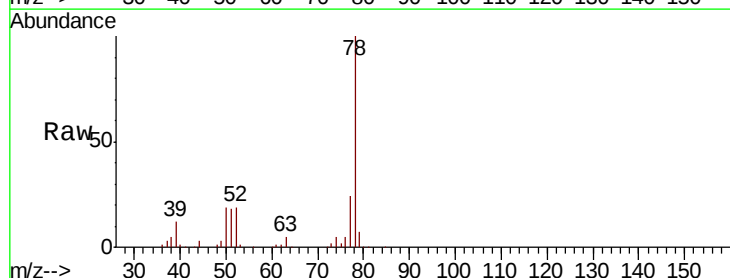


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

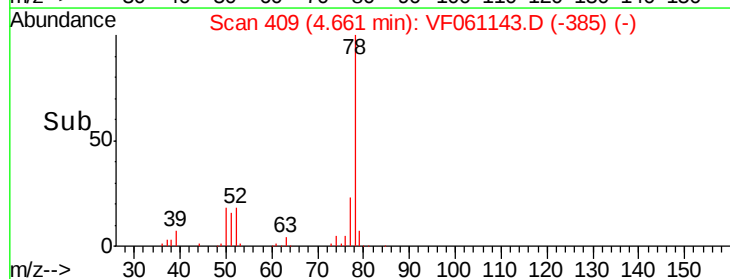
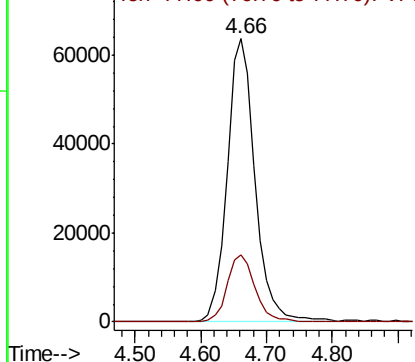


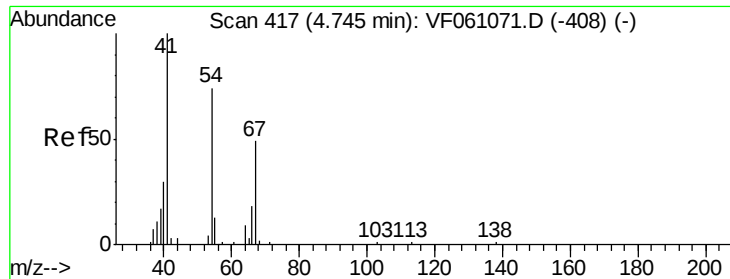
#40
Benzene
Concen: 20.494 ug/l
RT: 4.66 min Scan# 409
Delta R.T. 0.03 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 78 Resp: 189032
Ion Ratio Lower Upper
78 100
77 23.6 20.7 31.1



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0

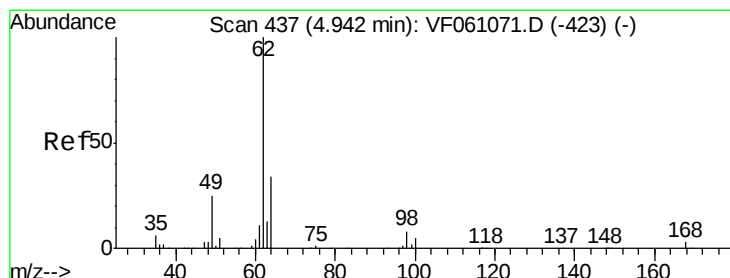
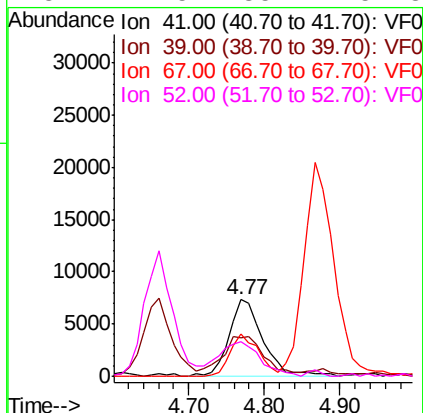
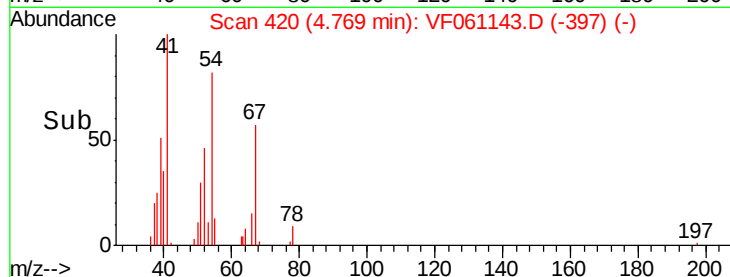
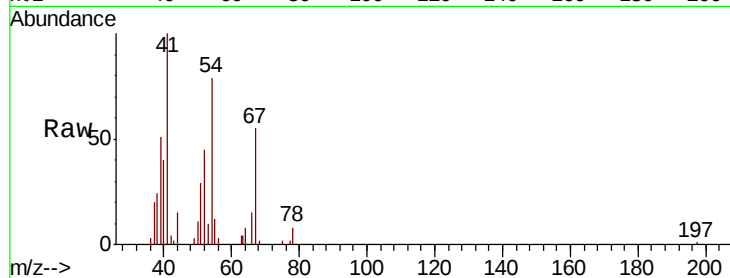




#41
Methacrylonitrile
Concen: 25.290 ug/l
RT: 4.77 min Scan# 420
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

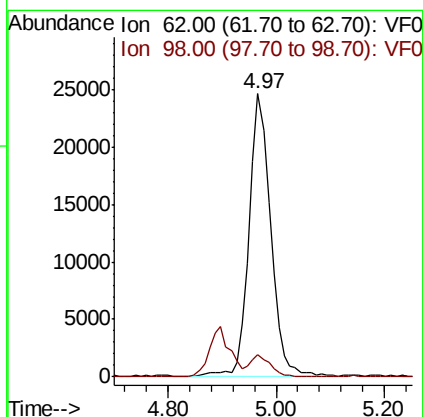
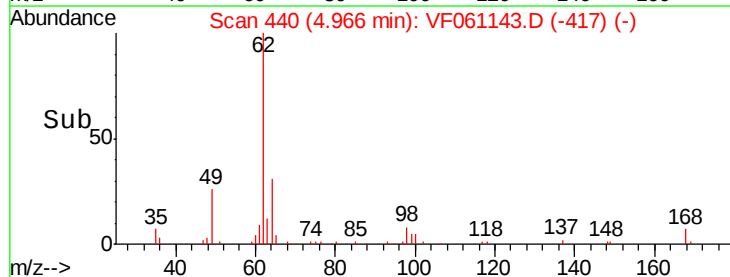
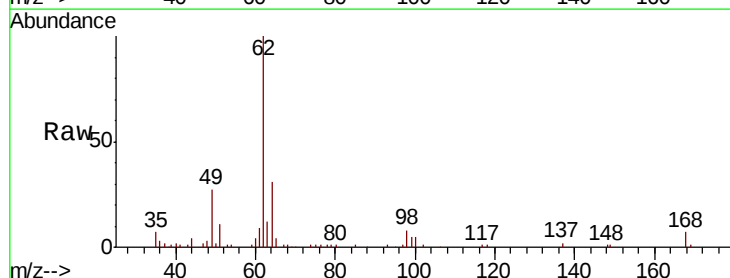
Instrument :
MSVOA_F
ClientSampled :

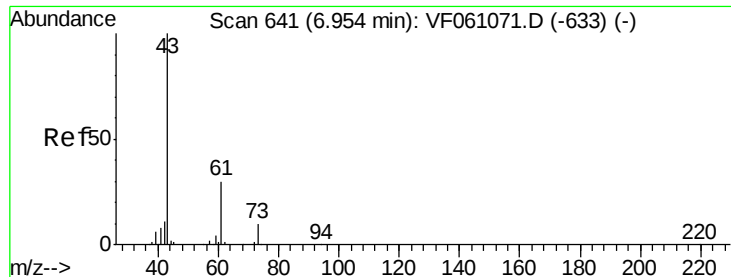
Tot Ion: 41 Resp: 22908
Ion Ratio Lower Upper
41 100
39 50.5 45.7 68.5
67 54.8 38.9 58.3
52 44.5 35.2 52.8



#42
1,2-Dichloroethane
Concen: 19.732 ug/l
RT: 4.97 min Scan# 440
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 62 Resp: 69139
Ion Ratio Lower Upper
62 100
98 7.7 0.0 16.6



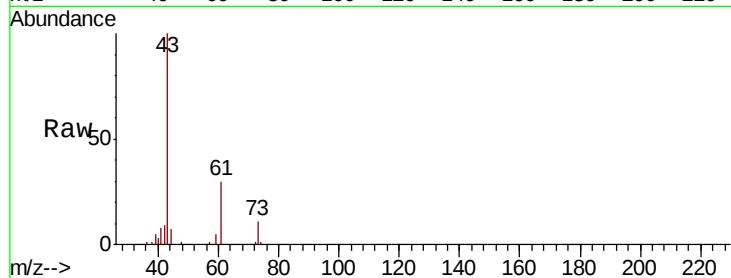


#43

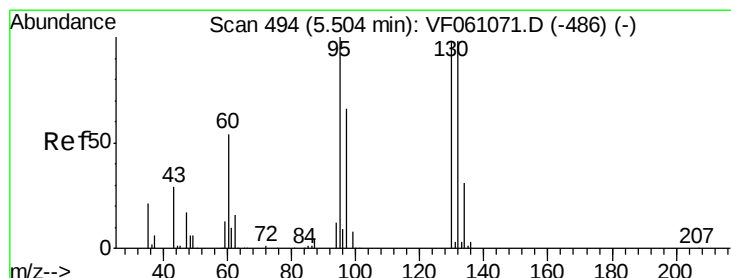
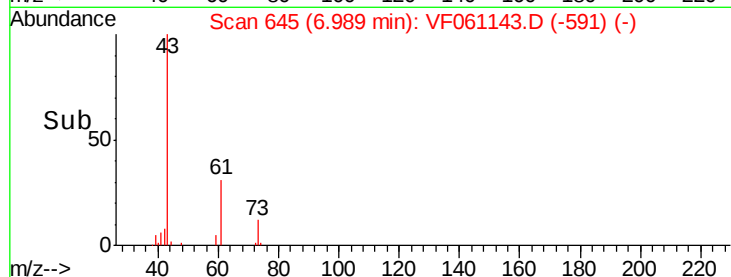
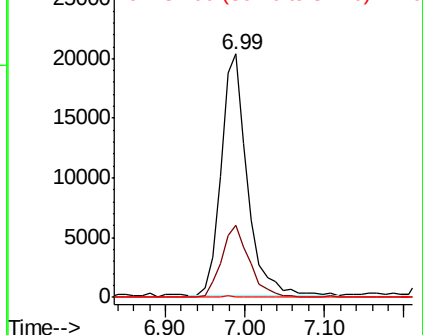
Isopropyl Acetate
 Concen: 22.758 ug/l
 RT: 6.99 min Scan# 645
 Delta R.T. 0.03 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 47131
 Ion Ratio Lower Upper
 43 100
 61 29.8 23.8 35.8
 87 0.0 0.0 0.0



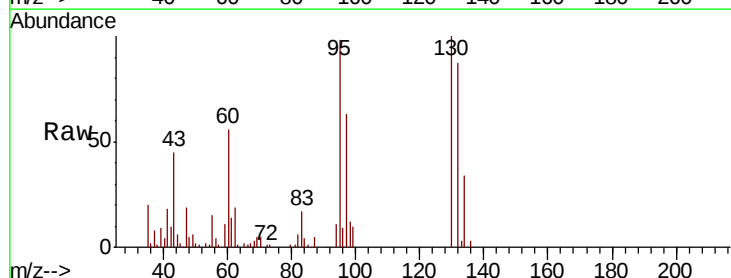
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



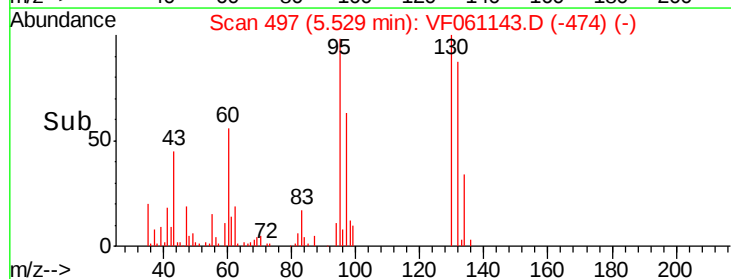
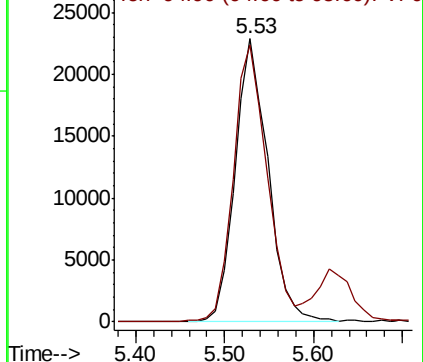
#44

Trichloroethene
 Concen: 20.162 ug/l
 RT: 5.53 min Scan# 497
 Delta R.T. 0.02 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Tgt Ion: 130 Resp: 58630
 Ion Ratio Lower Upper
 130 100
 95 98.1 0.0 205.2



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

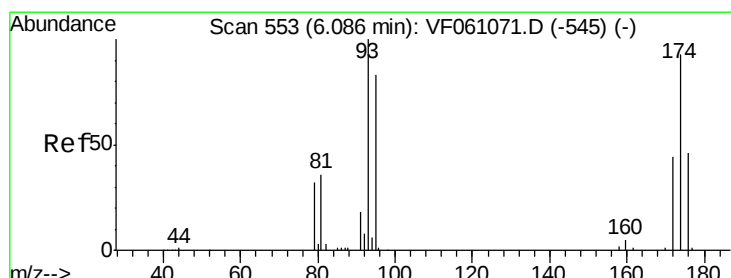
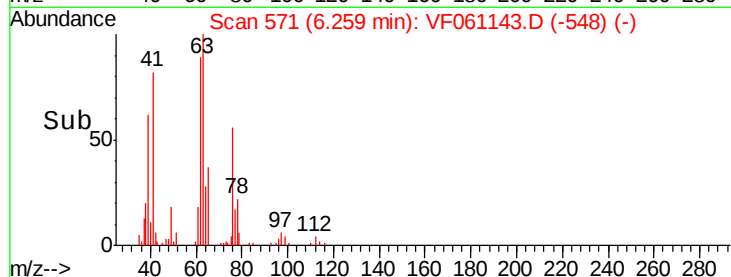
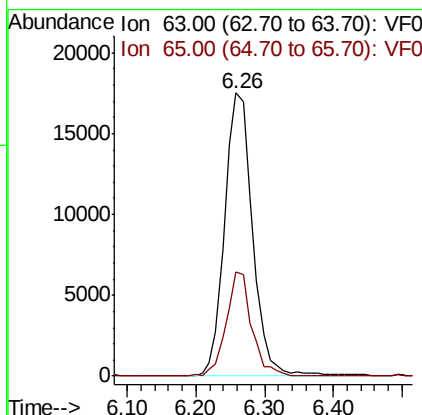
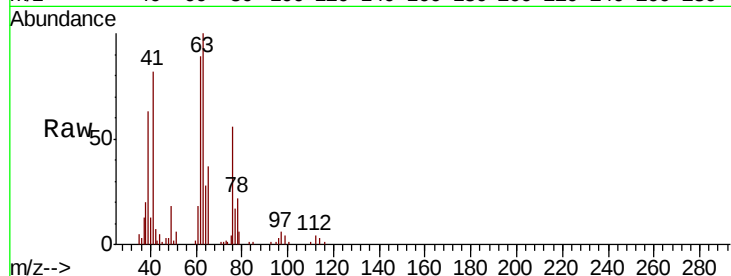




#45
 1,2-Dichloropropane
 Concen: 19.698 ug/l
 RT: 6.26 min Scan# 571
 Delta R.T. 0.02 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

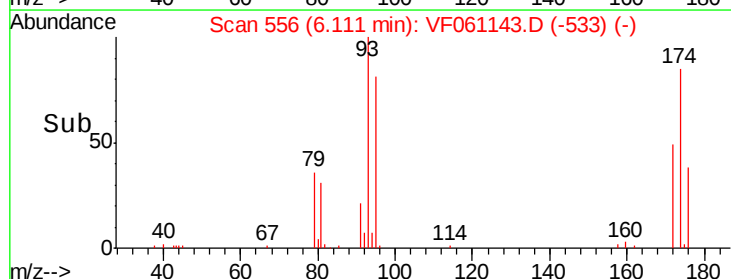
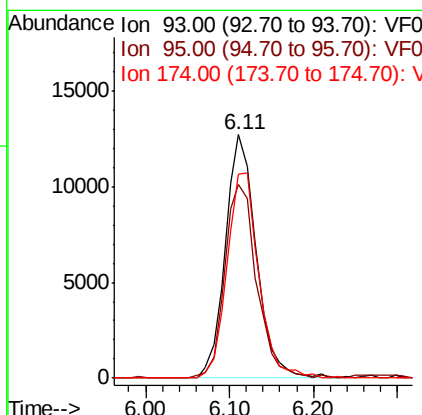
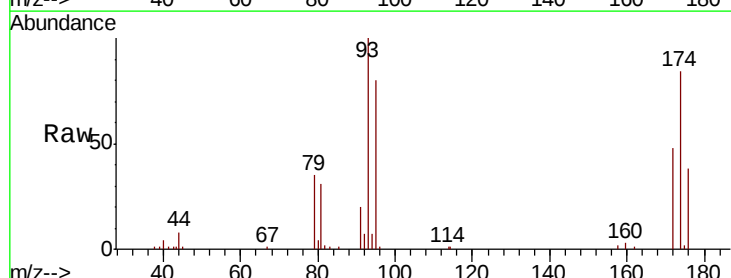
Instrument :
 MSVOA_F
 ClientSampleId :

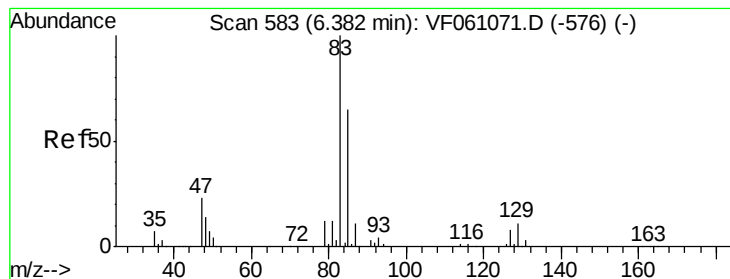
Tot Ion: 63 Resp: 49432
 Ion Ratio Lower Upper
 63 100
 65 37.0 24.4 36.6#



#46
 Dibromomethane
 Concen: 19.955 ug/l
 RT: 6.11 min Scan# 556
 Delta R.T. 0.02 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Tgt Ion: 93 Resp: 32479
 Ion Ratio Lower Upper
 93 100
 95 79.8 66.9 100.3
 174 85.9 74.1 111.1





#47

Bromodichloromethane

Concen: 20.447 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.03 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampleId :

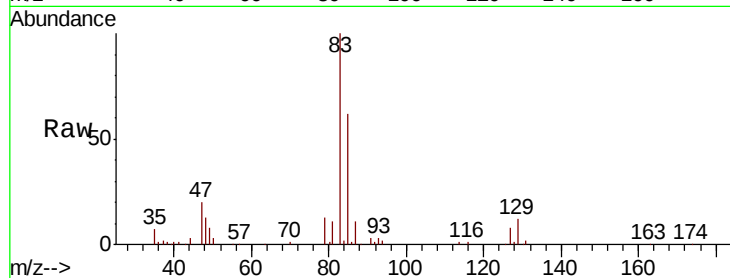
Tot Ion: 83 Resp: 86470

Ion Ratio Lower Upper

83 100

85 62.2 52.2 78.4

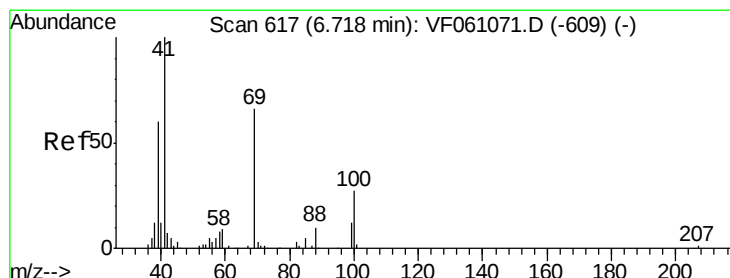
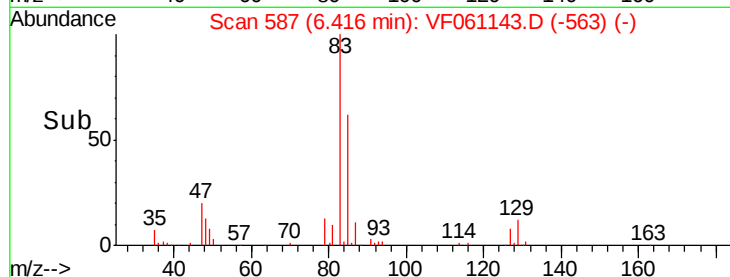
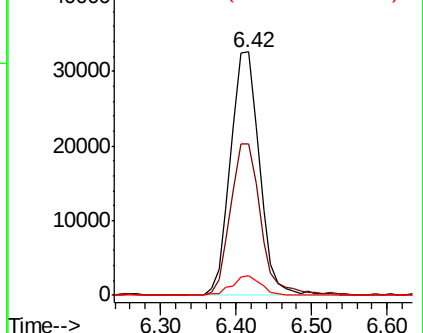
127 8.2 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 21.141 ug/l

RT: 6.74 min Scan# 620

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

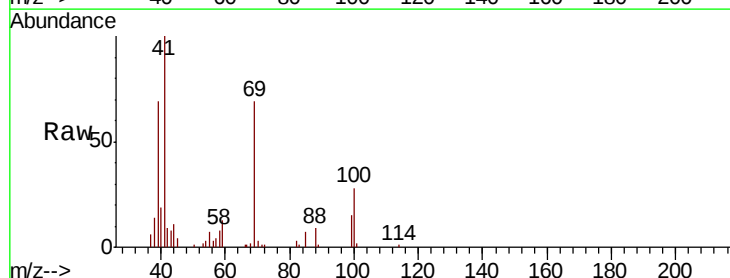
Tgt Ion: 41 Resp: 30565

Ion Ratio Lower Upper

41 100

69 68.8 52.7 79.1

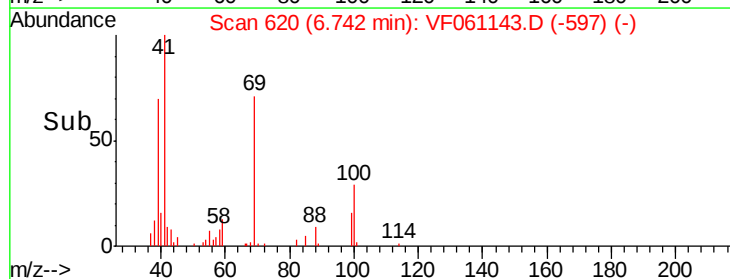
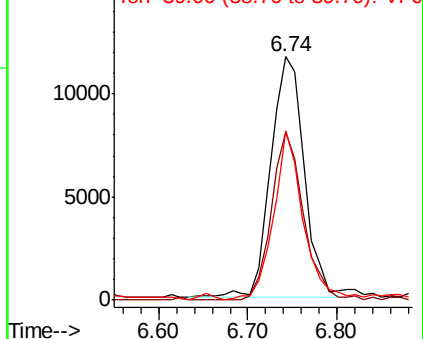
39 69.5 47.8 71.6

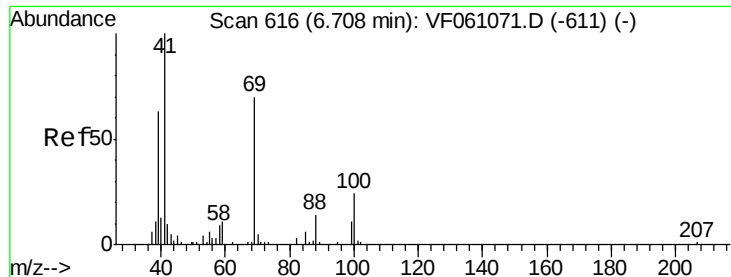


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 433.629 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :
MSVOA_F
ClientSampled :

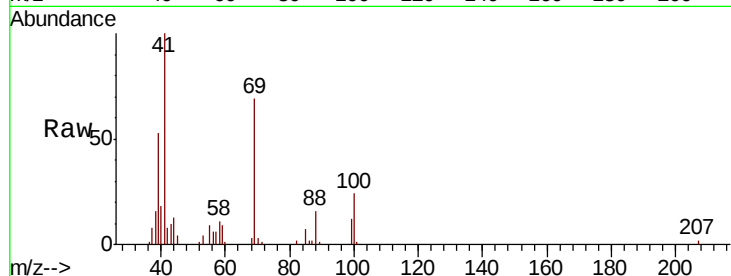
Tot Ion: 88 Resp: 4549

Ion Ratio Lower Upper

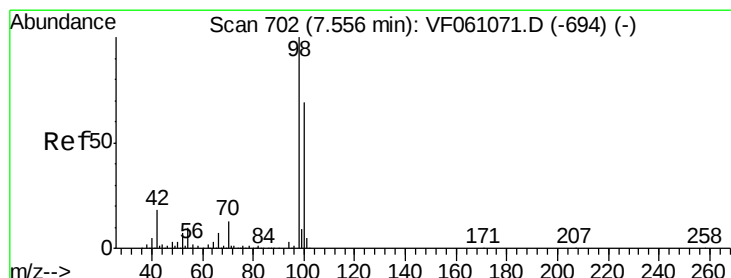
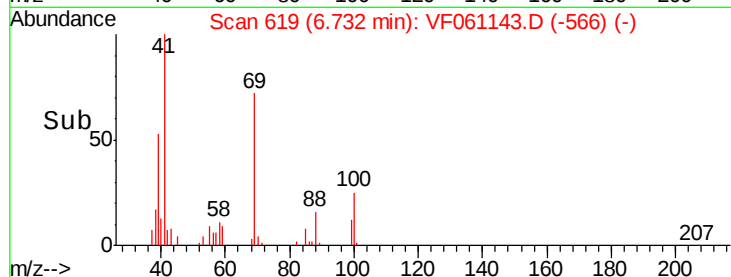
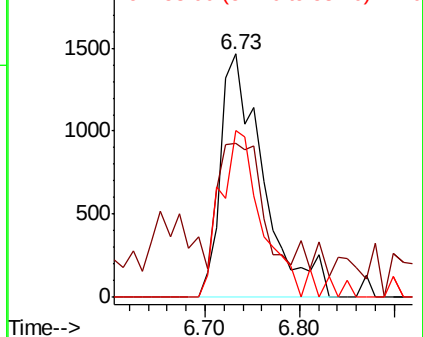
88 100

43 63.3 33.3 49.9#

58 68.5 53.2 79.8



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: 44.722 ug/l

RT: 7.58 min Scan# 705

Delta R.T. 0.02 min

Lab File: VF061143.D

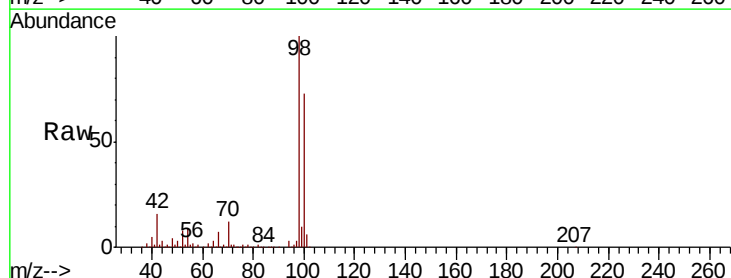
Acq: 22 Dec 2018 14:33

Tgt Ion: 98 Resp: 360749

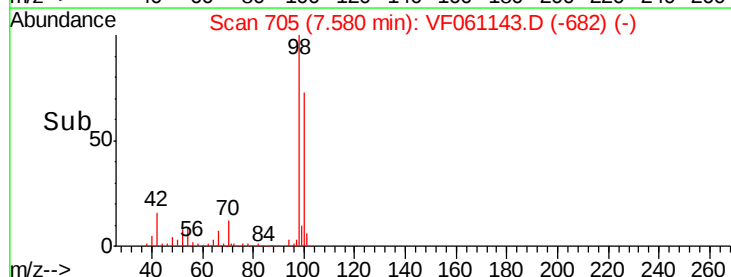
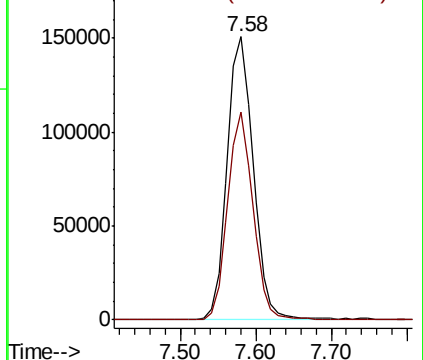
Ion Ratio Lower Upper

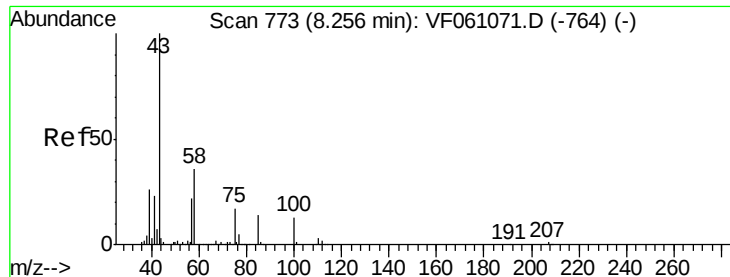
98 100

100 73.4 55.3 82.9



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: 122.472 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

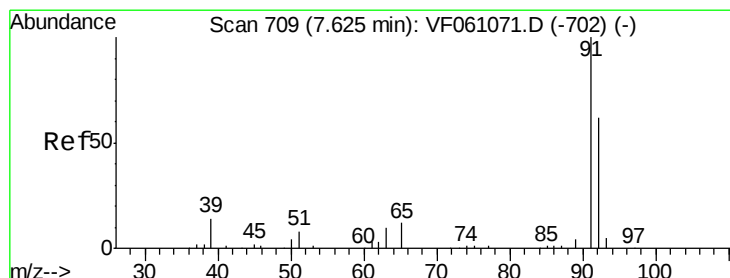
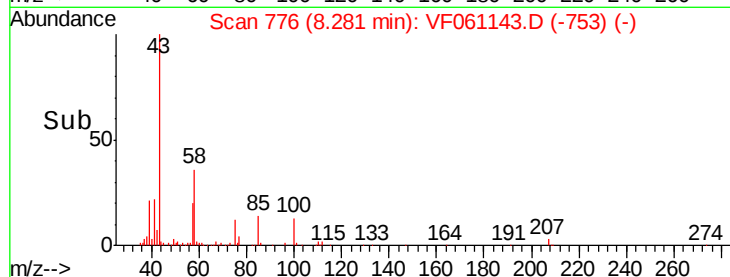
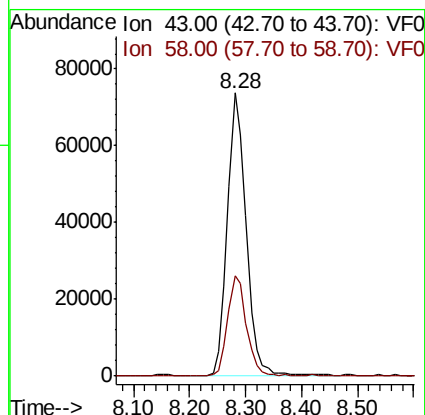
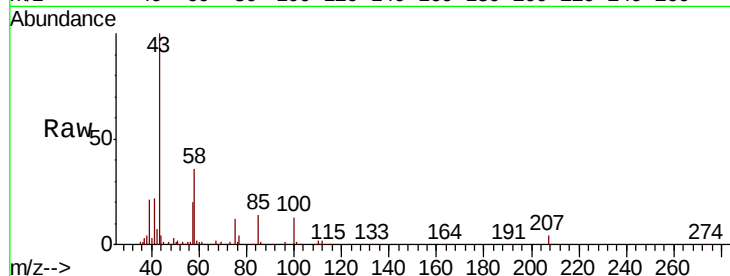
ClientSampleId :

Tot Ion: 43 Resp: 173952

Ion Ratio Lower Upper

43 100

58 35.6 29.1 43.7



#52

Toluene

Concen: 20.202 ug/l

RT: 7.65 min Scan# 712

Delta R.T. 0.02 min

Lab File: VF061143.D

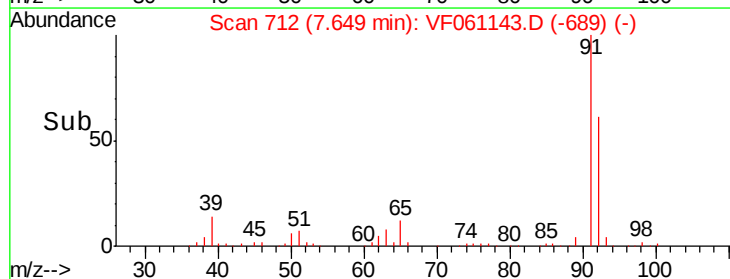
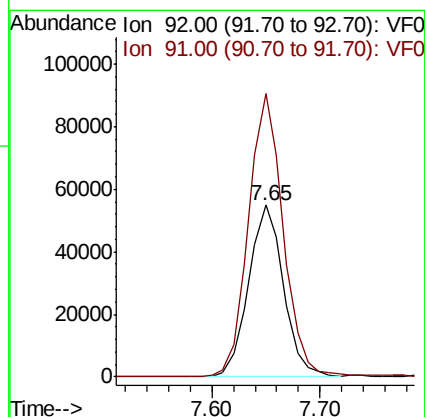
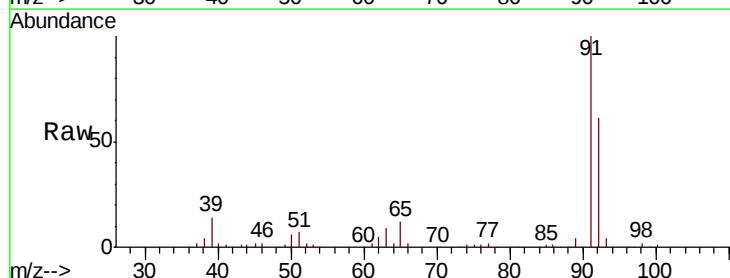
Acq: 22 Dec 2018 14:33

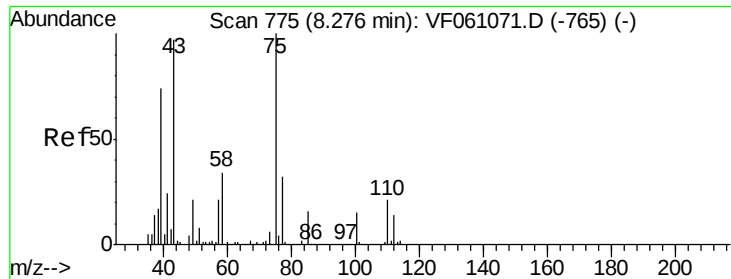
Tgt Ion: 92 Resp: 123349

Ion Ratio Lower Upper

92 100

91 165.0 128.8 193.2





#53

t-1,3-Dichloropropene

Concen: 20.527 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

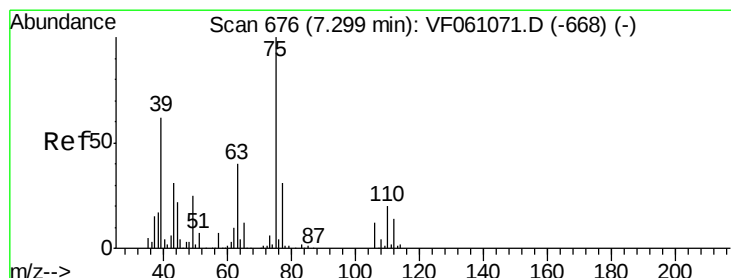
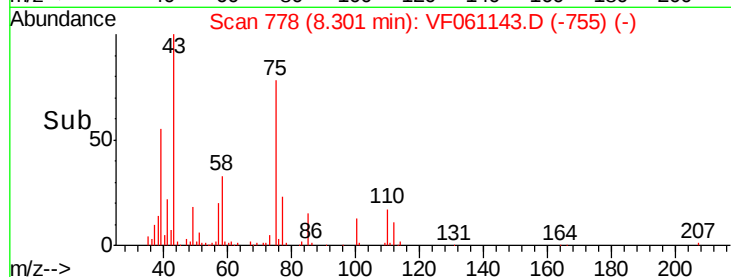
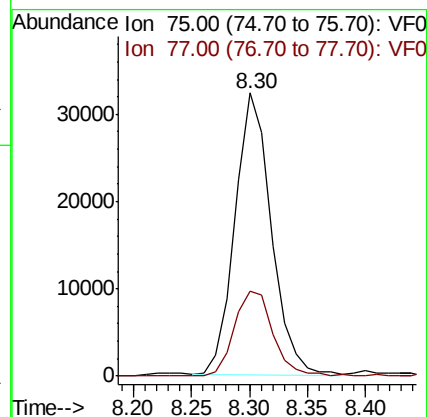
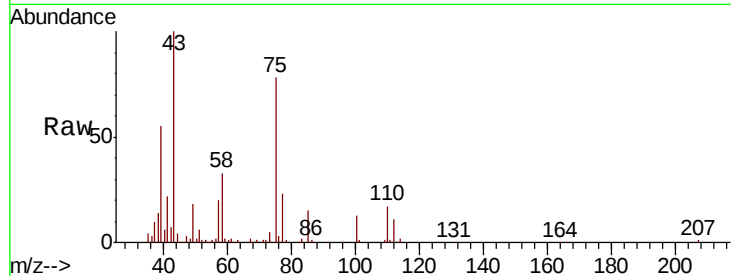
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 70028

Ion Ratio Lower Upper

75 100

77 30.1 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 20.981 ug/l

RT: 7.32 min Scan# 679

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

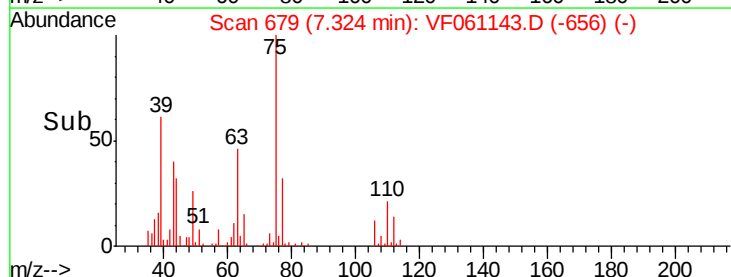
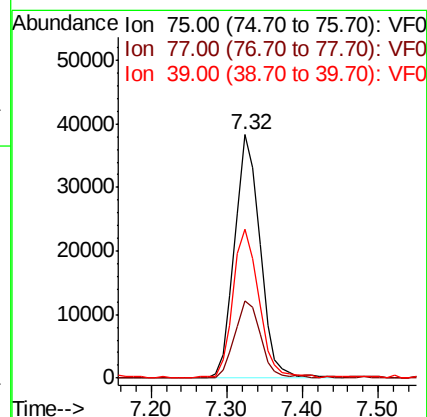
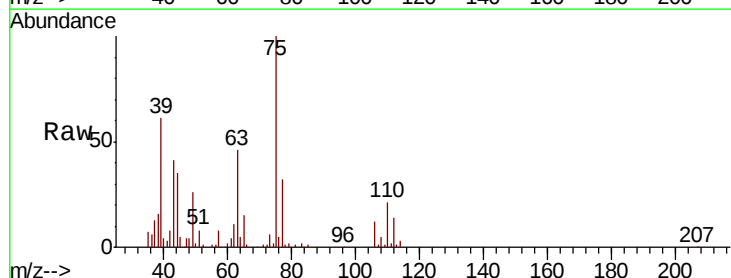
Tgt Ion: 75 Resp: 89837

Ion Ratio Lower Upper

75 100

77 31.8 25.0 37.4

39 61.4 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 20.893 ug/l

RT: 8.52 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 38242

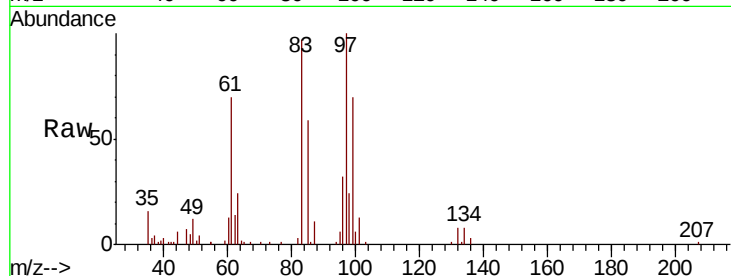
Ion Ratio Lower Upper

97 100

83 97.3 75.0 112.4

85 58.5 47.5 71.3

99 69.8 51.9 77.9

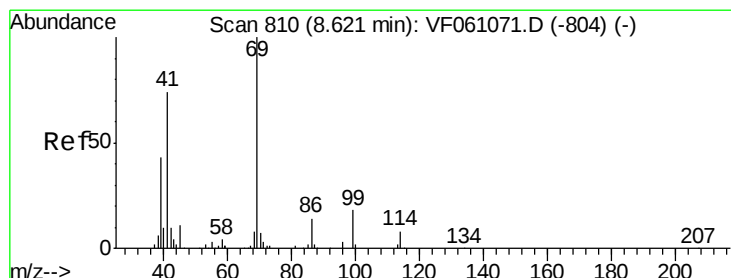
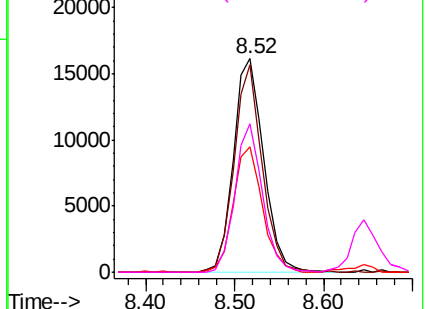
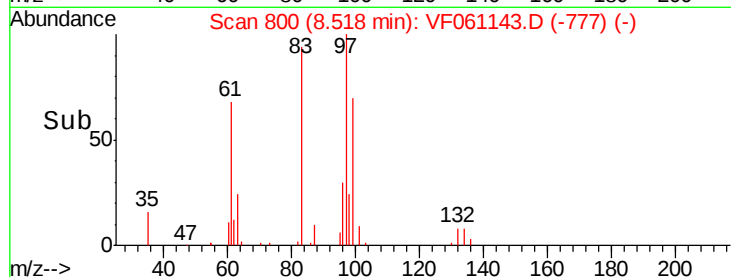


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 21.670 ug/l

RT: 8.65 min Scan# 813

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

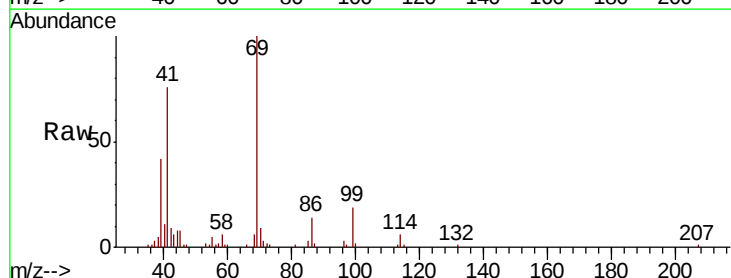
Tgt Ion: 69 Resp: 42920

Ion Ratio Lower Upper

69 100

41 76.1 59.7 89.5

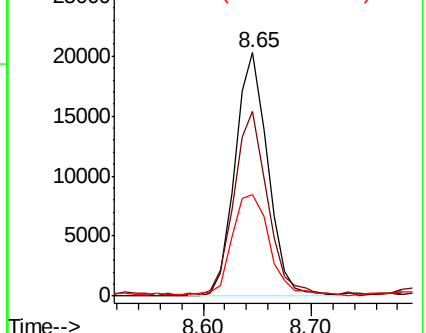
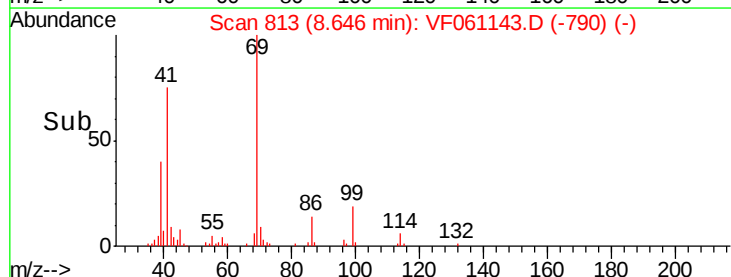
39 41.8 35.0 52.6

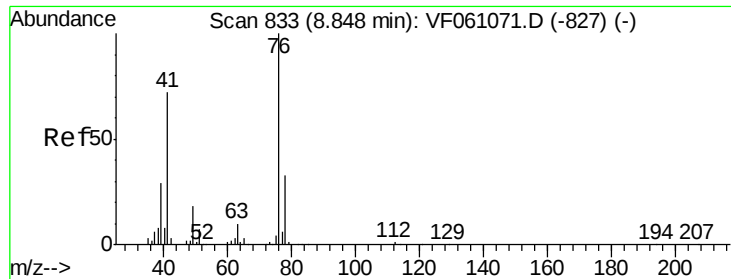


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 20.750 ug/l

RT: 8.87 min Scan# 836

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

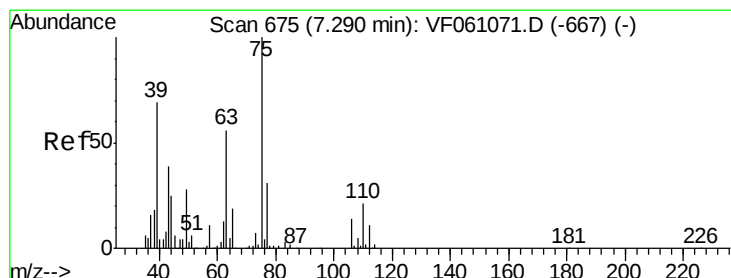
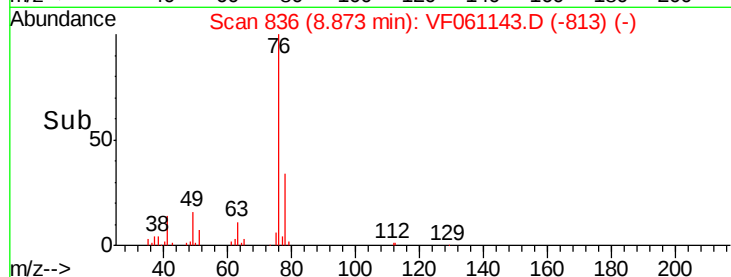
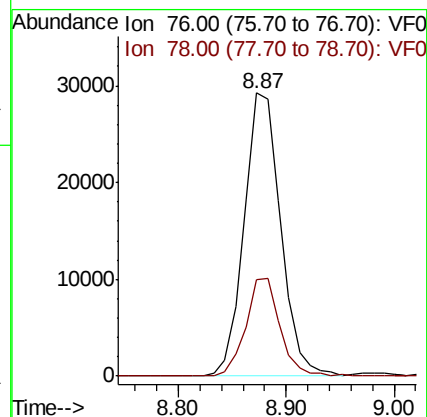
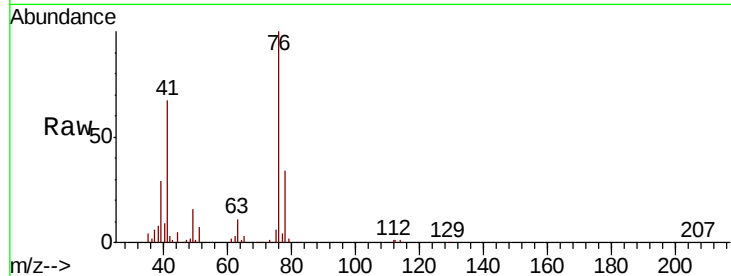
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 68692

Ion Ratio Lower Upper

76 100

78 33.9 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 111.958 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.02 min

Lab File: VF061143.D

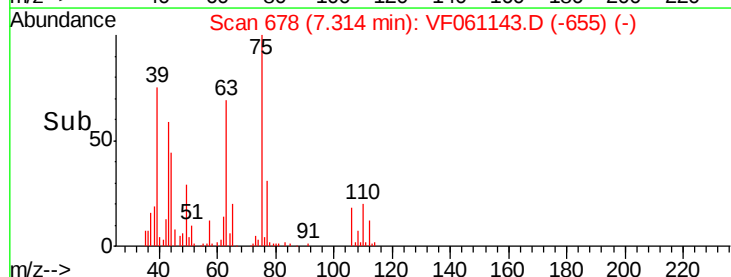
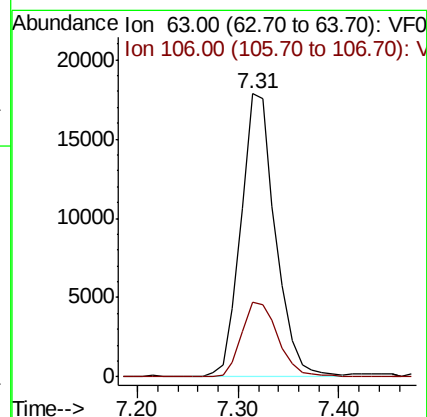
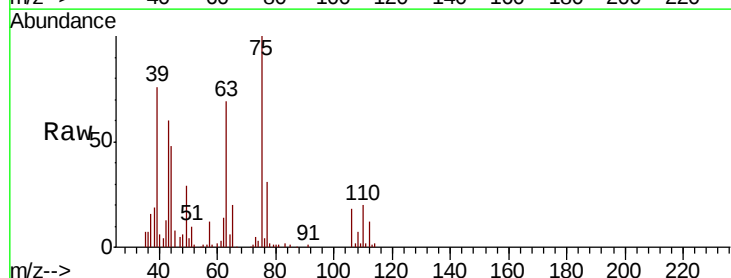
Acq: 22 Dec 2018 14:33

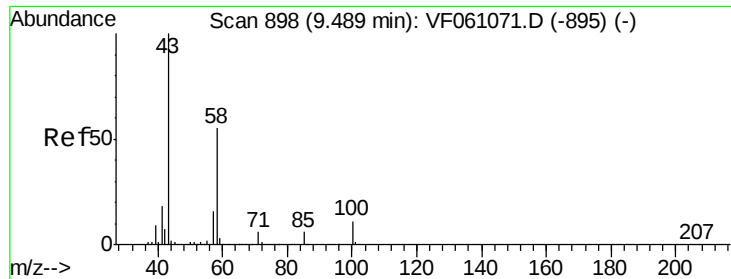
Tgt Ion: 63 Resp: 42588

Ion Ratio Lower Upper

63 100

106 26.4 19.8 29.8

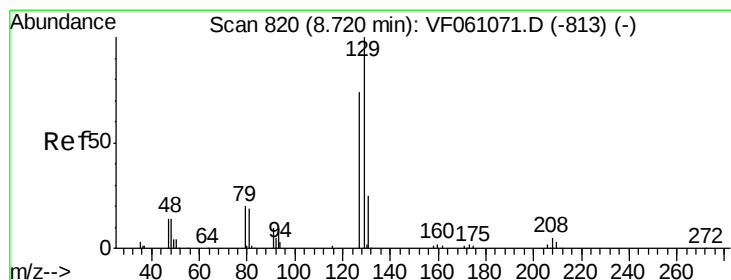
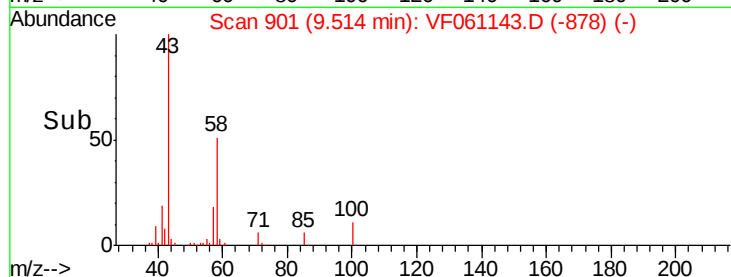
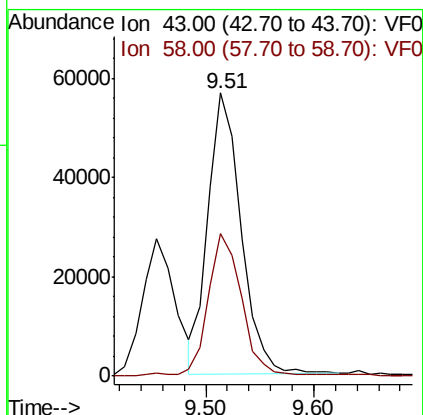
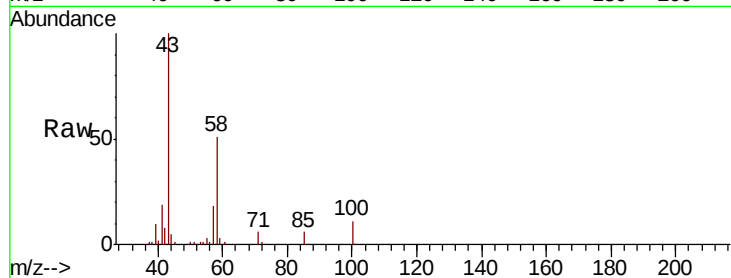




#59
2-Hexanone
Concen: 117.067 ug/l
RT: 9.51 min Scan# 901
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

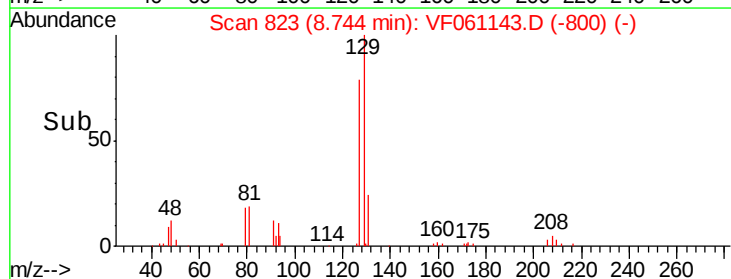
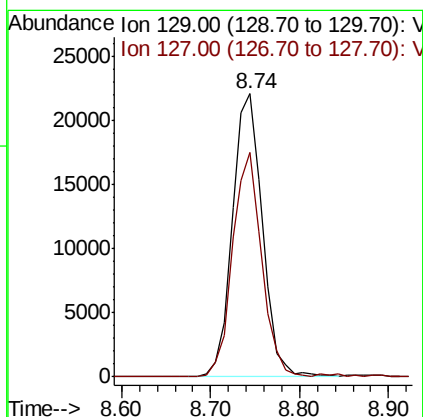
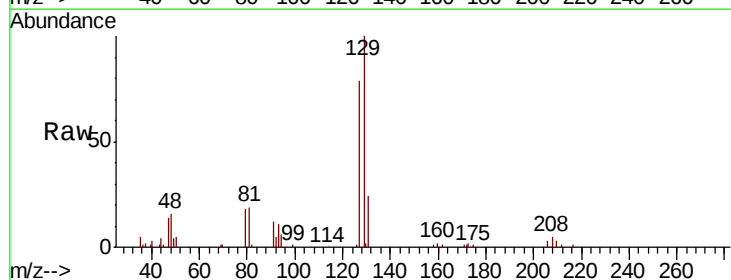
Instrument :
MSVOA_F
ClientSampleId :

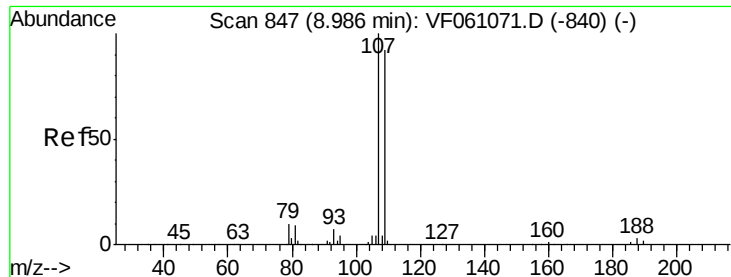
Tot Ion: 43 Resp: 120246
Ion Ratio Lower Upper
43 100
58 50.5 25.1 75.2



#60
Dibromochloromethane
Concen: 19.802 ug/l
RT: 8.74 min Scan# 823
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion:129 Resp: 51957
Ion Ratio Lower Upper
129 100
127 79.4 36.8 110.3





#61

1,2-Dibromoethane

Concen: 20.603 ug/l

RT: 9.01 min Scan# 850

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

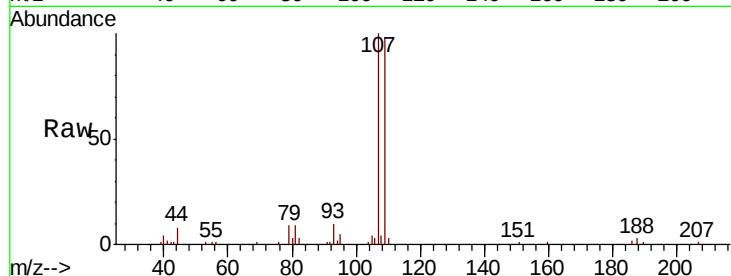
ClientSampleId :

Tot Ion:107 Resp: 40276

Ion Ratio Lower Upper

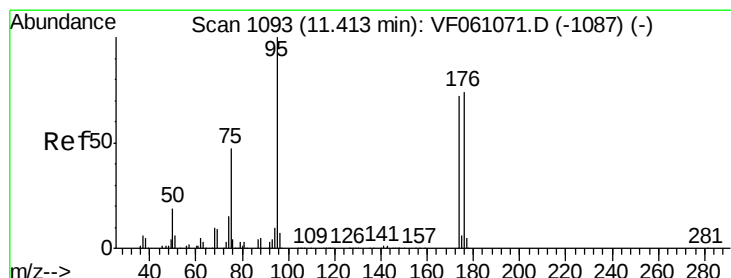
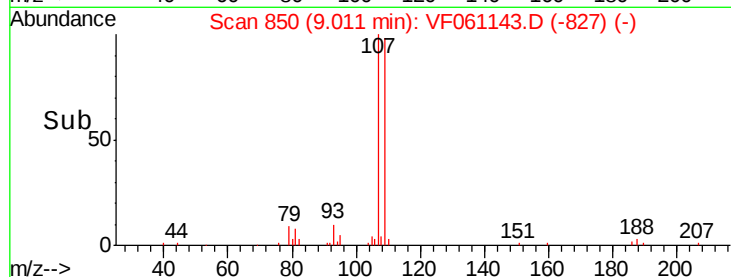
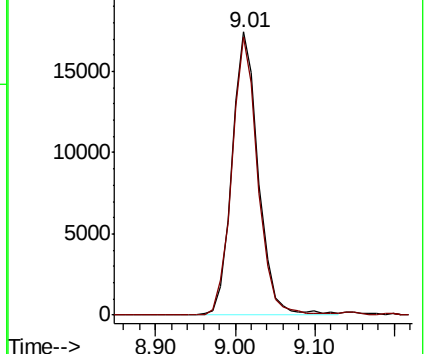
107 100

109 98.4 73.7 110.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 45.525 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

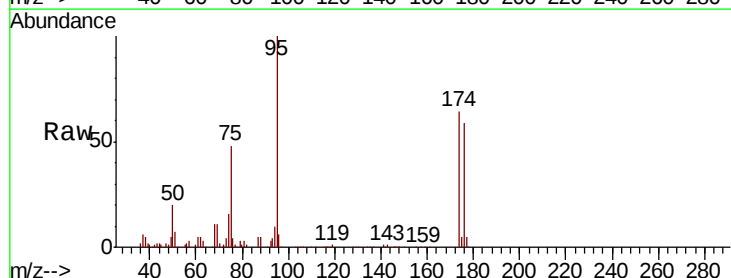
Tgt Ion: 95 Resp: 169296

Ion Ratio Lower Upper

95 100

174 63.9 0.0 143.8

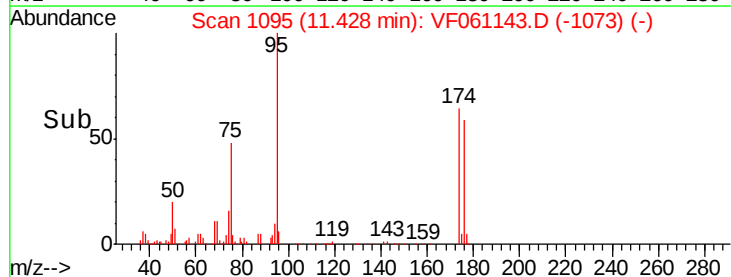
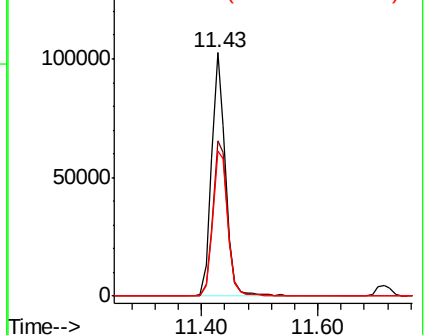
176 59.3 0.0 147.6

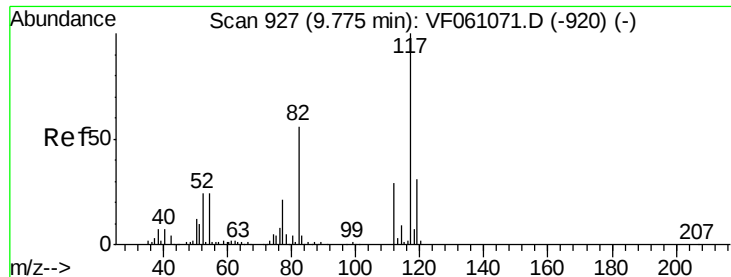


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

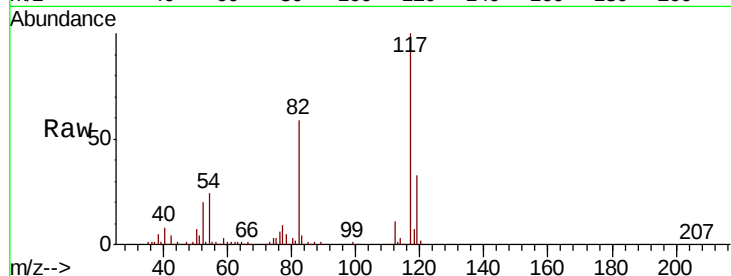




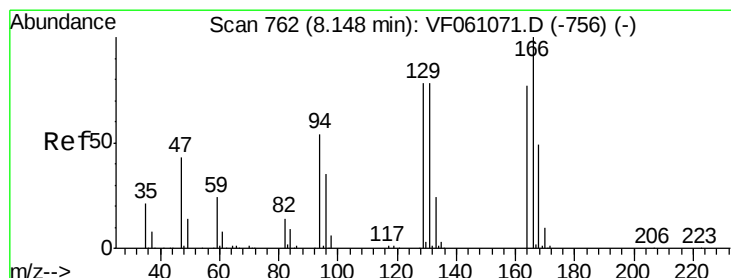
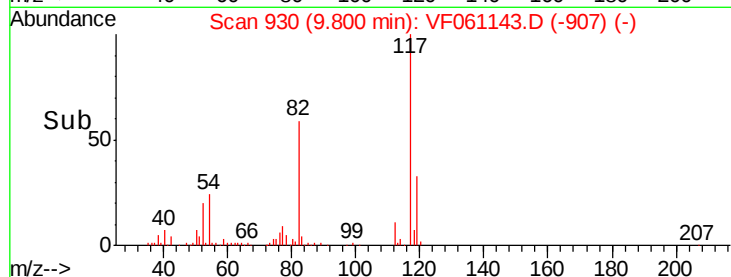
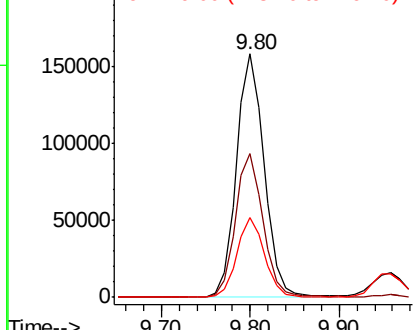
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 344096
Ion Ratio Lower Upper
117 100
82 59.1 45.0 67.4
119 32.5 24.8 37.2

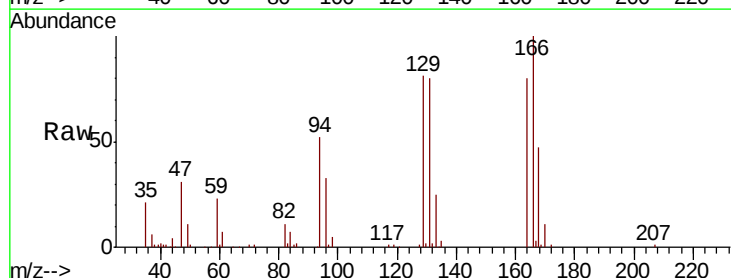


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

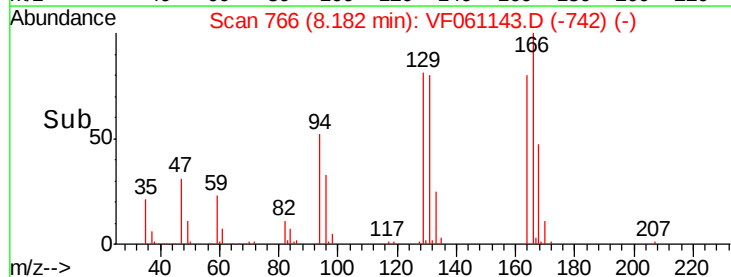
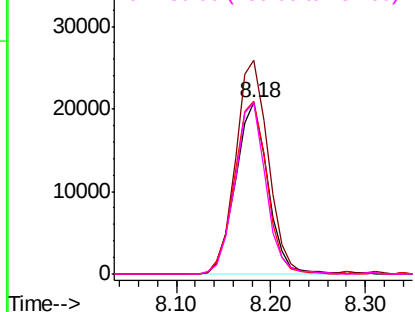


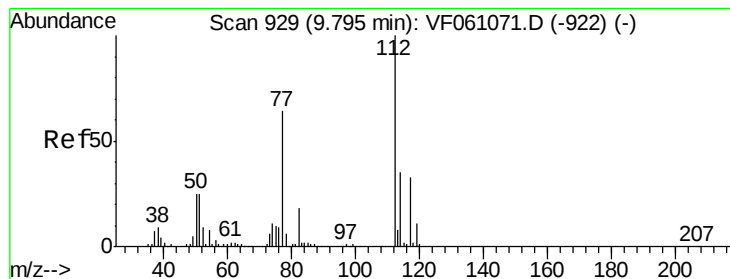
#64
Tetrachloroethene
Concen: 18.514 ug/l
RT: 8.18 min Scan# 766
Delta R.T. 0.03 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion:164 Resp: 49005
Ion Ratio Lower Upper
164 100
166 124.9 104.0 156.0
129 100.8 81.1 121.7
131 100.2 81.2 121.8



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





#65

Chlorobenzene

Concen: 19.207 ug/l

RT: 9.82 min Scan# 932

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

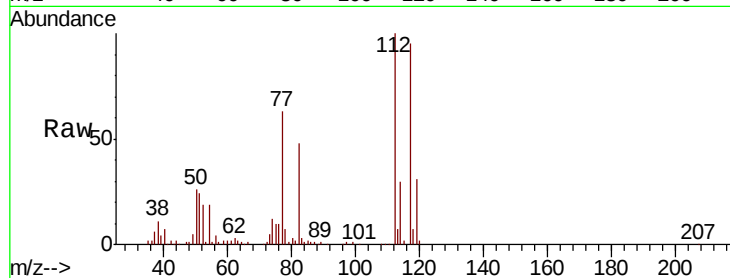
ClientSampleId :

Tot Ion:112 Resp: 136534

Ion Ratio Lower Upper

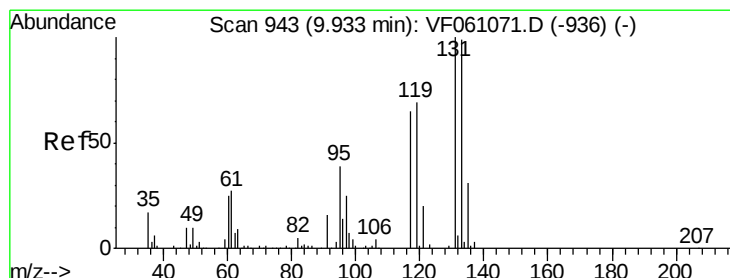
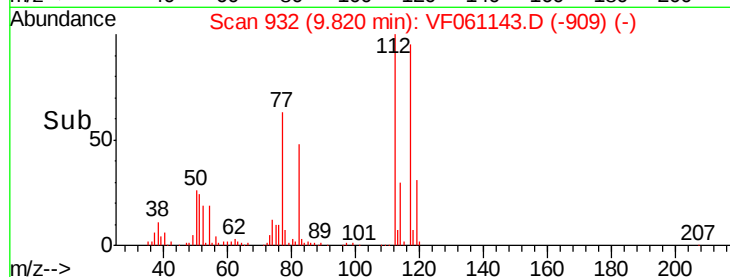
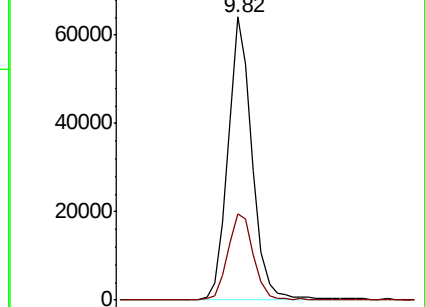
112 100

114 30.4 27.8 41.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 18.542 ug/l

RT: 9.96 min Scan# 946

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

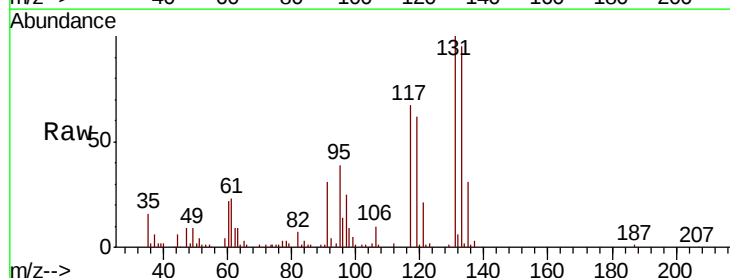
Tgt Ion:131 Resp: 53865

Ion Ratio Lower Upper

131 100

133 95.2 49.5 148.7

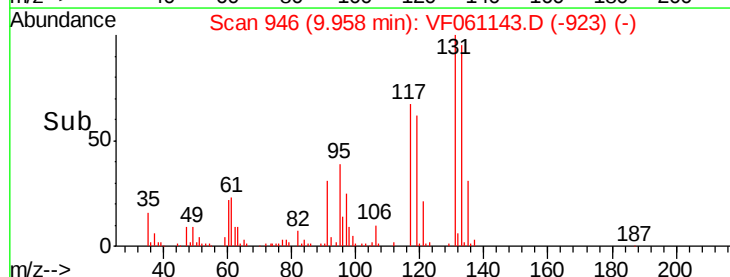
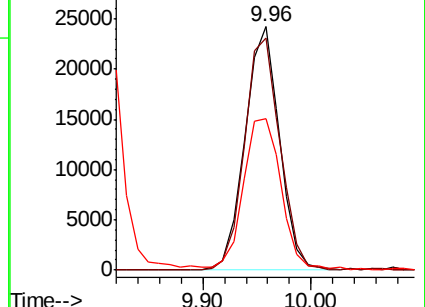
119 62.0 34.5 103.5

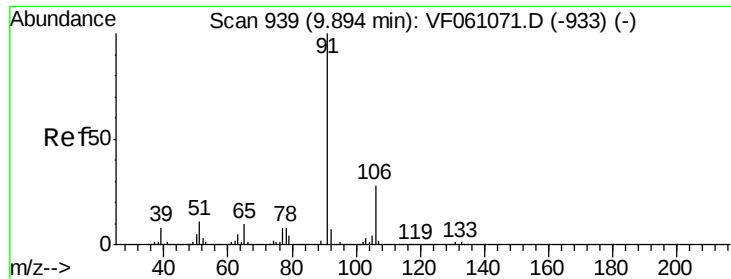


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

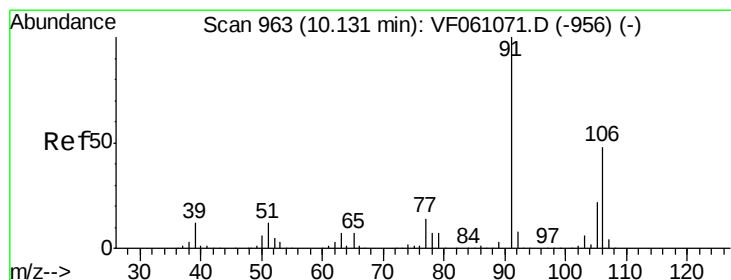
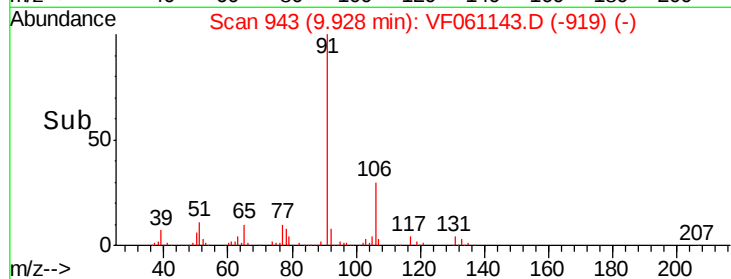
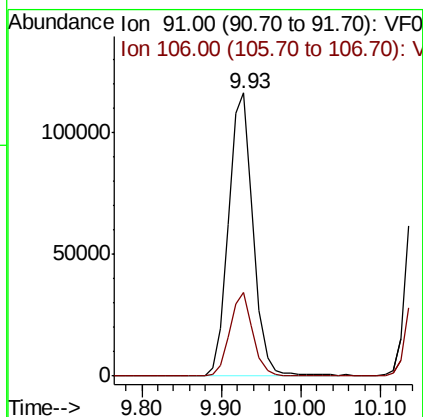
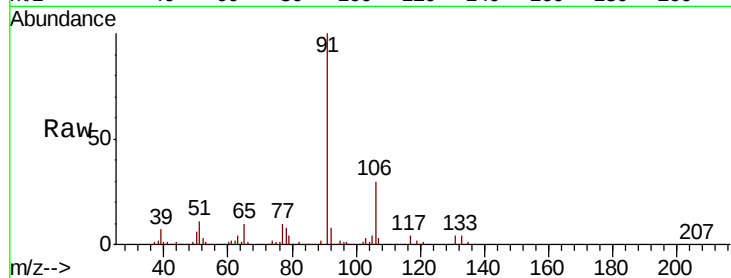




#67
Ethyl Benzene
Concen: 19.437 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.03 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

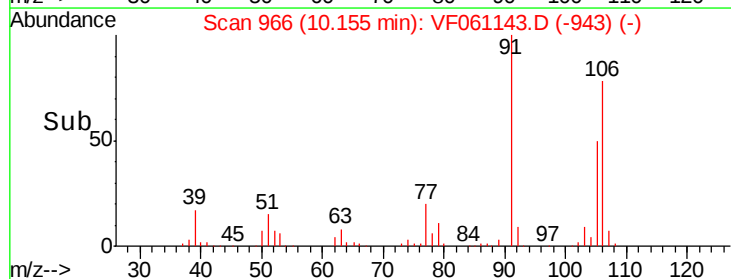
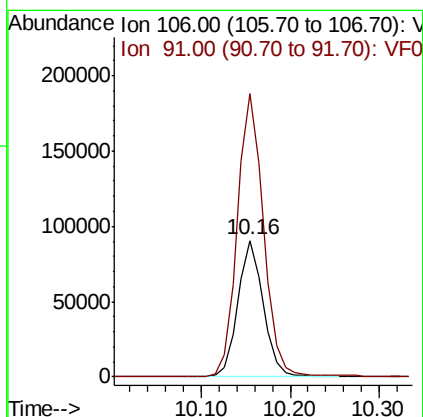
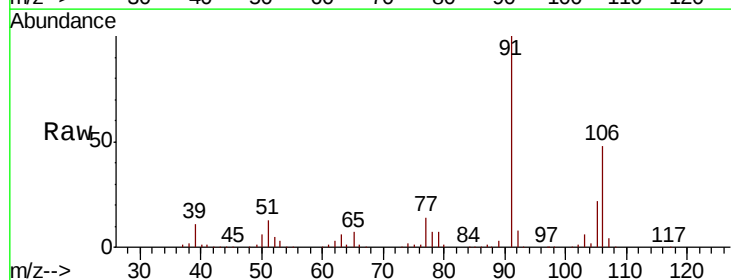
Instrument :
MSVOA_F
ClientSampleId :

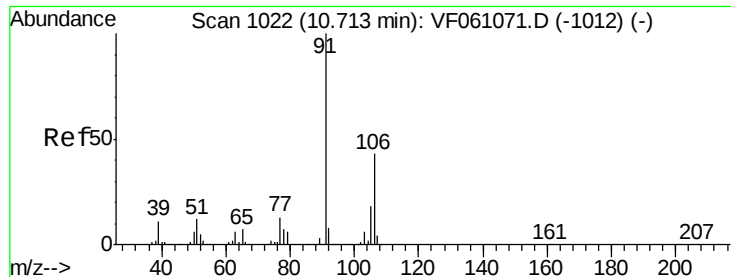
Tot Ion: 91 Resp: 251716
Ion Ratio Lower Upper
91 100
106 29.5 22.5 33.7



#68
m/p-Xylenes
Concen: 39.737 ug/l
RT: 10.16 min Scan# 966
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 106 Resp: 181104
Ion Ratio Lower Upper
106 100
91 207.8 168.2 252.2

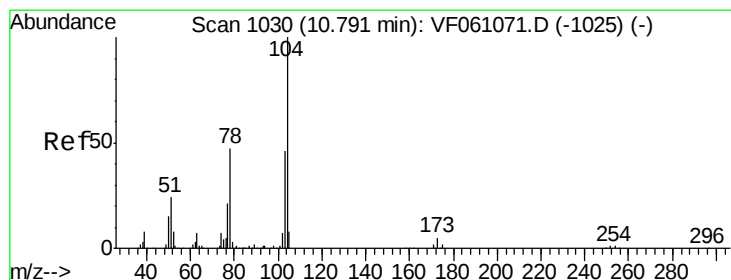
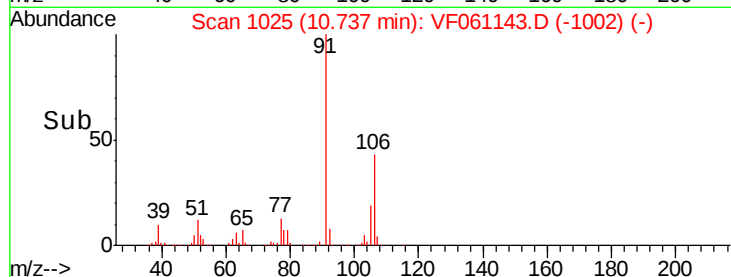
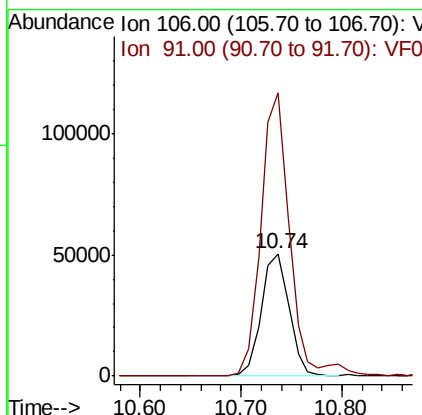
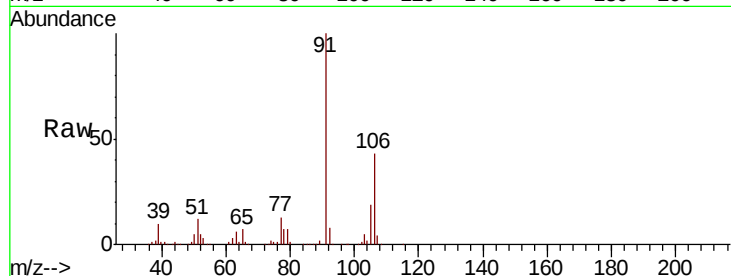




#69
o-Xylene
Concen: 19.187 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

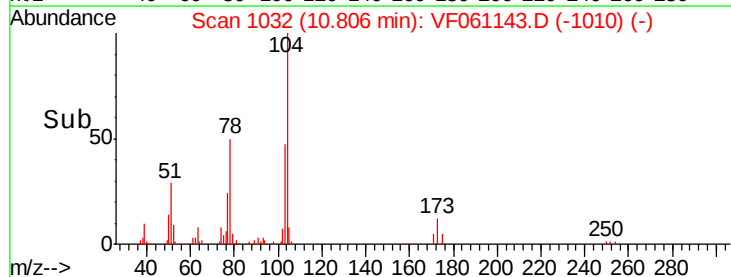
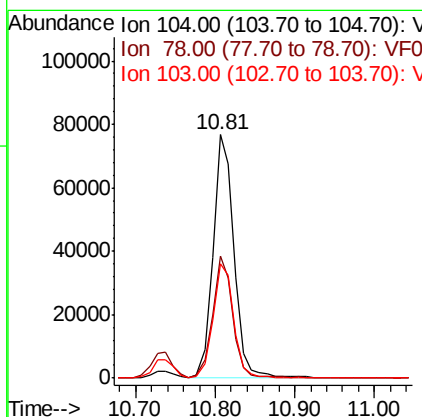
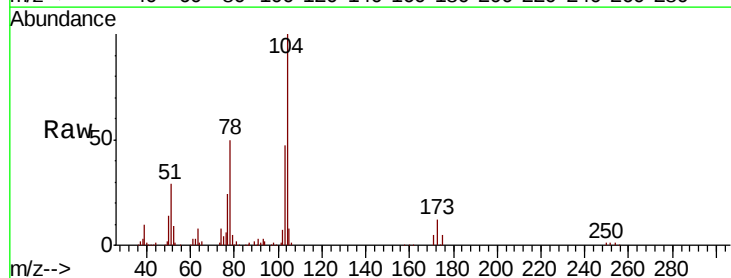
Instrument :
MSVOA_F
ClientSampled :

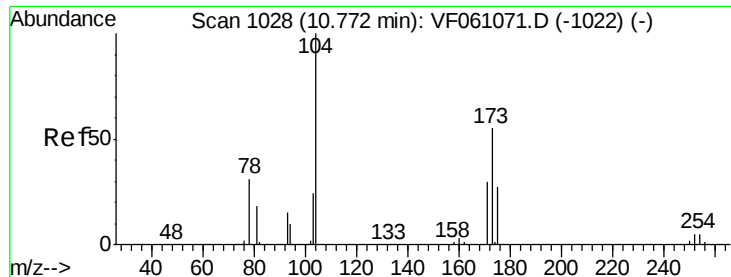
Tot Ion:106 Resp: 96982
Ion Ratio Lower Upper
106 100
91 230.7 115.9 347.7



#70
Styrene
Concen: 20.315 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion:104 Resp: 142984
Ion Ratio Lower Upper
104 100
78 50.4 38.4 57.6
103 47.0 37.0 55.6





#71

Bromoform

Concen: 20.818 ug/l

RT: 10.80 min Scan# 1031

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampleId :

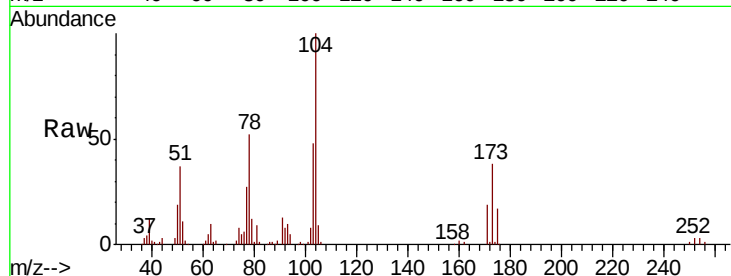
Tot Ion:173 Resp: 27979

Ion Ratio Lower Upper

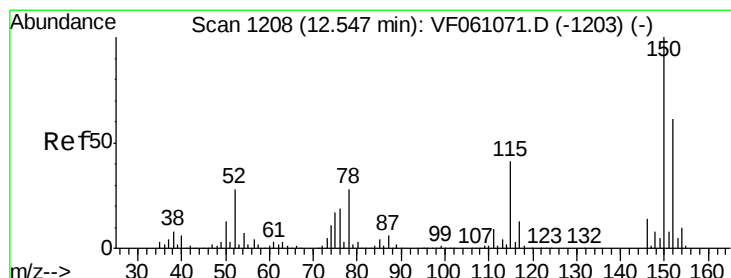
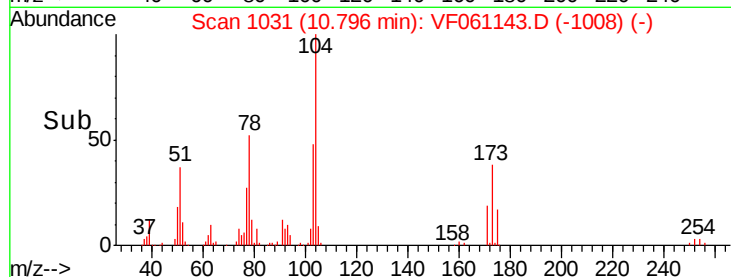
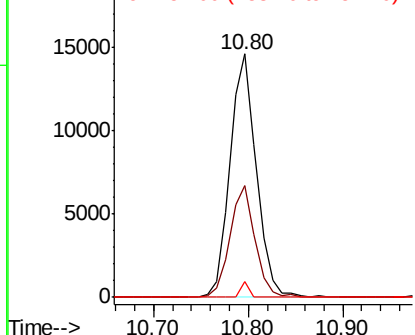
173 100

175 46.1 24.8 74.4

254 6.6 0.0 0.0#



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

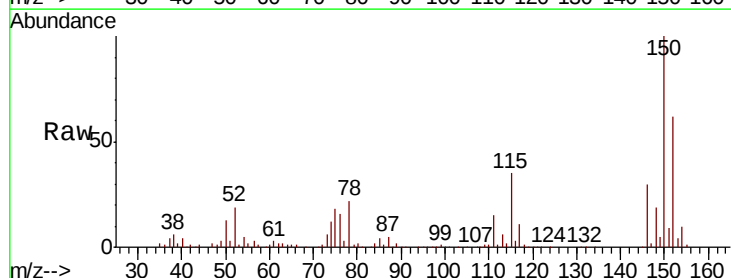
Tgt Ion:152 Resp: 167615

Ion Ratio Lower Upper

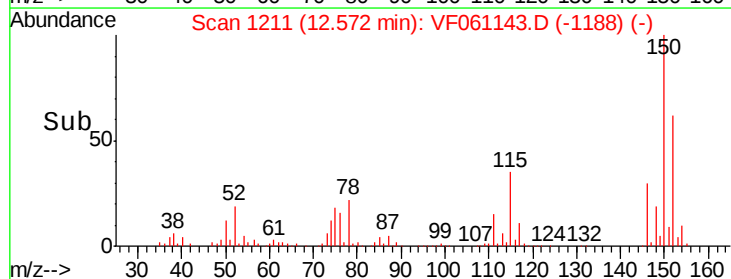
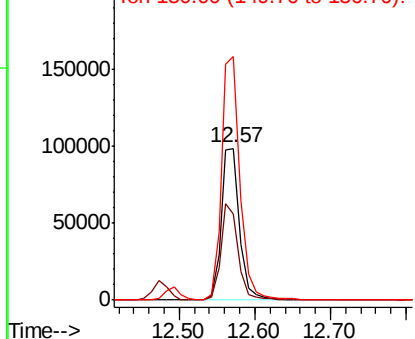
152 100

115 56.5 33.3 99.9

150 160.5 0.0 328.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 19.910 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

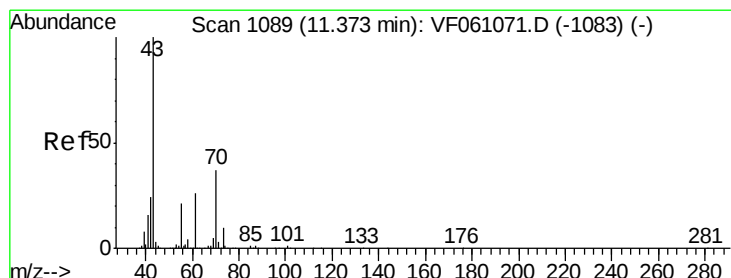
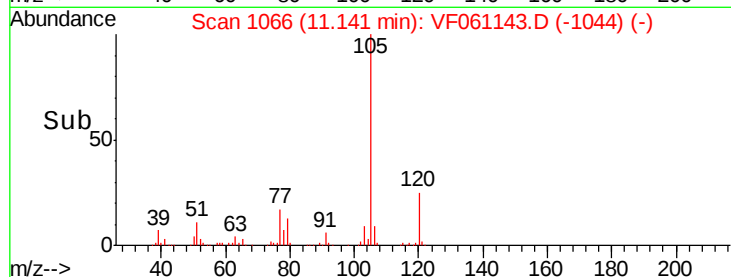
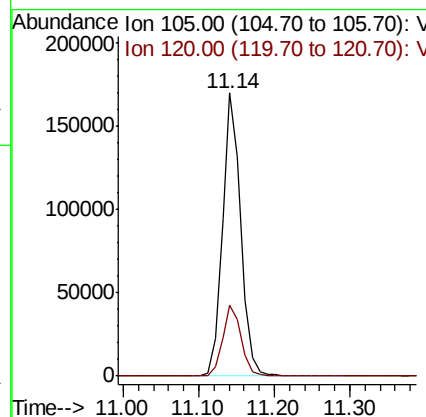
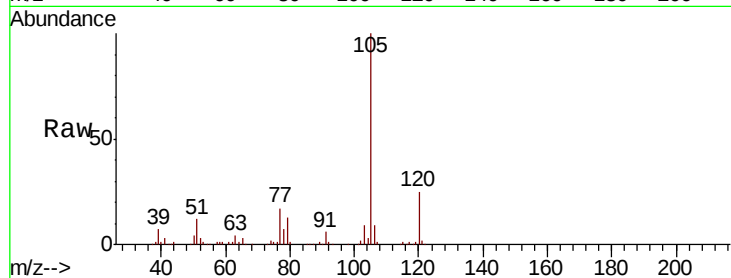
ClientSampleId :

Tot Ion:105 Resp: 287586

Ion Ratio Lower Upper

105 100

120 25.0 13.0 39.0



#74

N-ethyl acetate

Concen: 24.267 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Tgt Ion: 43 Resp: 77821

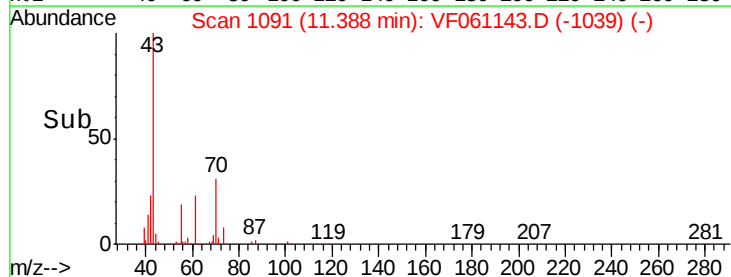
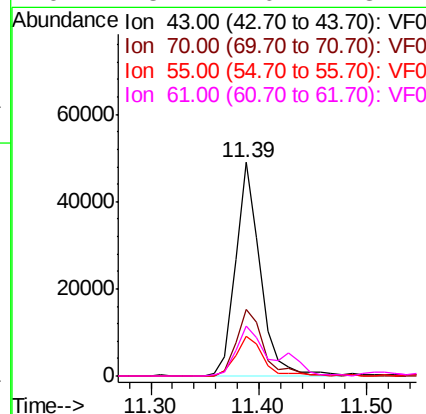
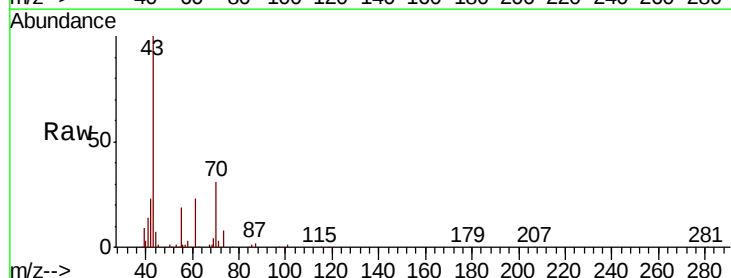
Ion Ratio Lower Upper

43 100

70 30.9 29.2 43.8

55 18.7 16.5 24.7

61 23.4 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 21.304 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampleId :

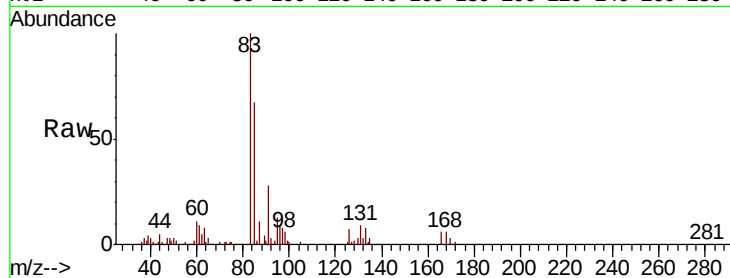
Tot Ion: 83 Resp: 51072

Ion Ratio Lower Upper

83 100

131 9.0 4.8 14.3

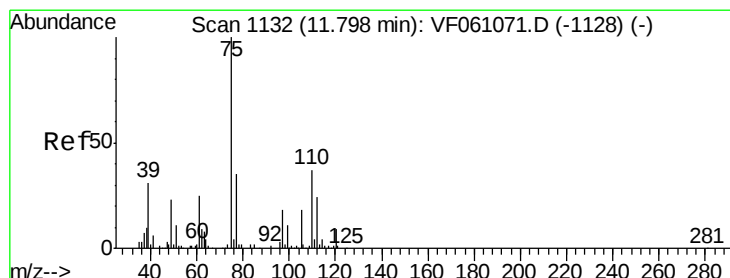
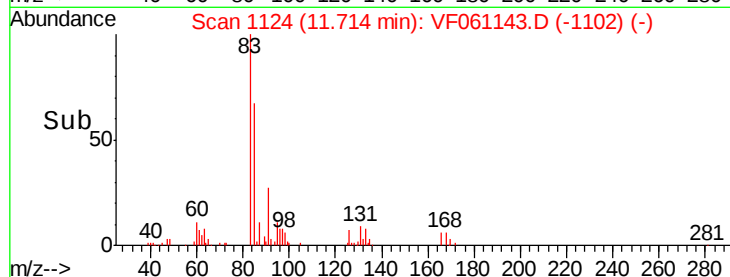
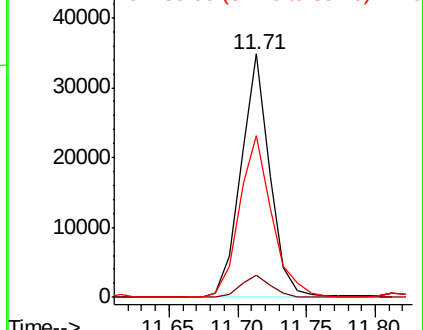
85 66.7 33.9 101.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 21.325 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. 0.01 min

Lab File: VF061143.D

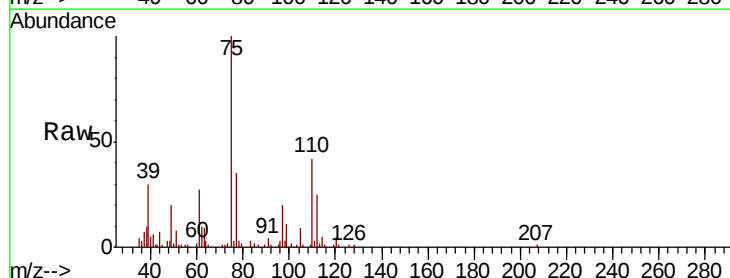
Acq: 22 Dec 2018 14:33

Tgt Ion: 75 Resp: 38044

Ion Ratio Lower Upper

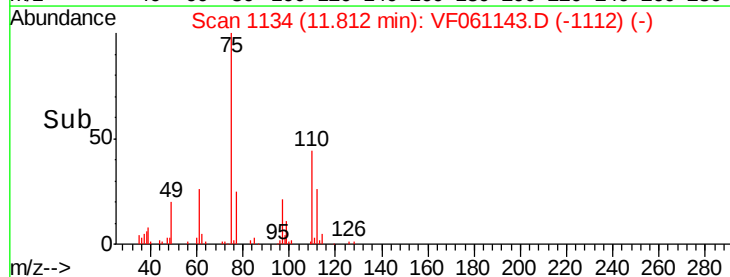
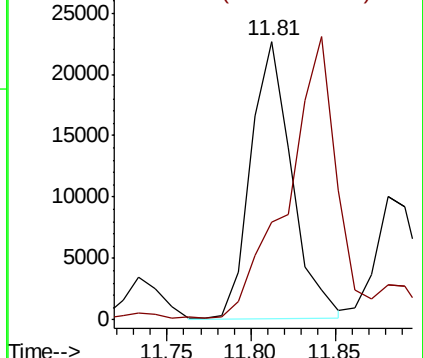
75 100

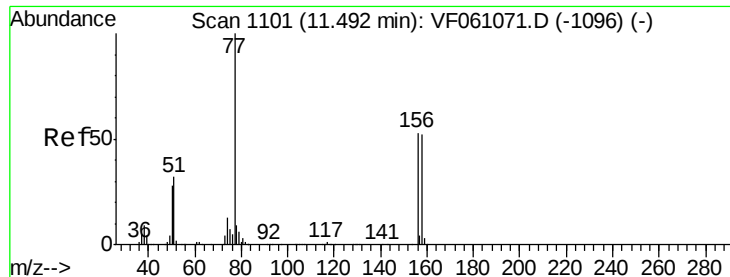
77 35.2 17.6 52.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 19.227 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampleId :

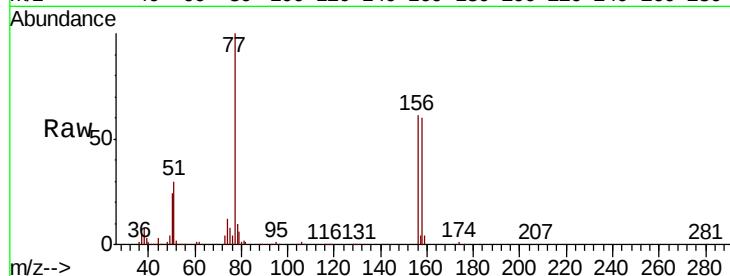
Tot Ion:156 Resp: 59784

Ion Ratio Lower Upper

156 100

77 163.6 93.8 281.4

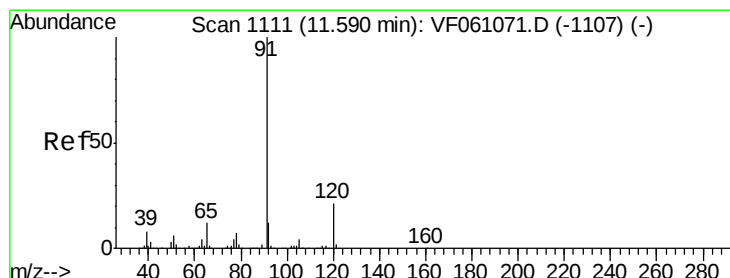
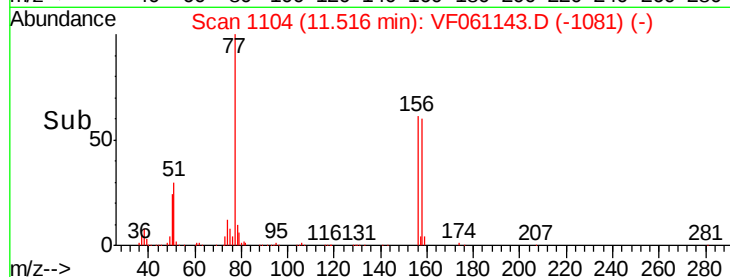
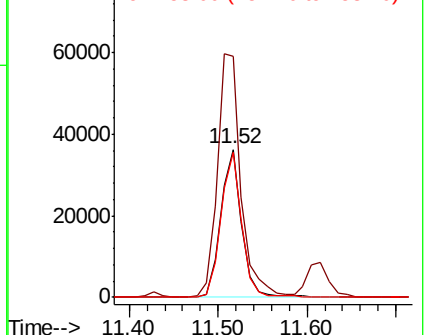
158 98.2 48.9 146.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 18.048 ug/l

RT: 11.61 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VF061143.D

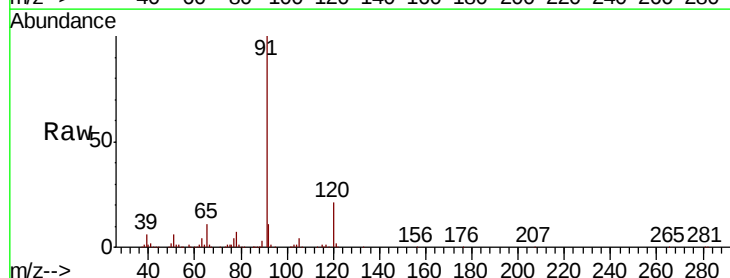
Acq: 22 Dec 2018 14:33

Tgt Ion: 91 Resp: 341216

Ion Ratio Lower Upper

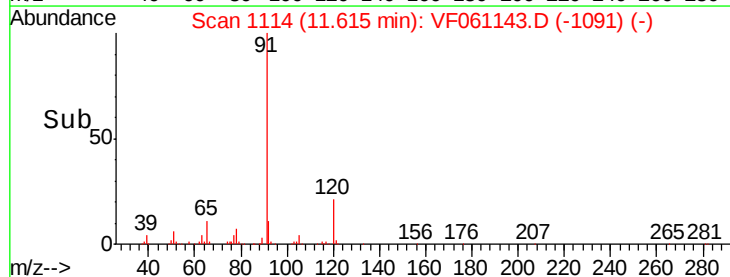
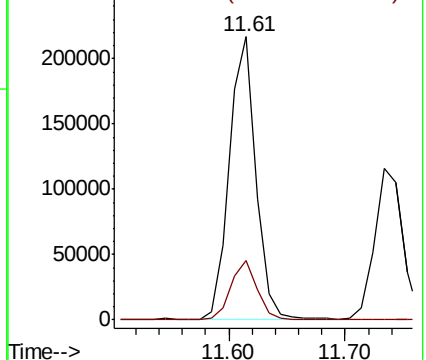
91 100

120 21.1 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

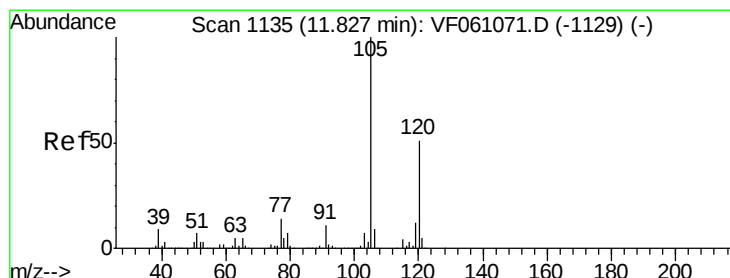
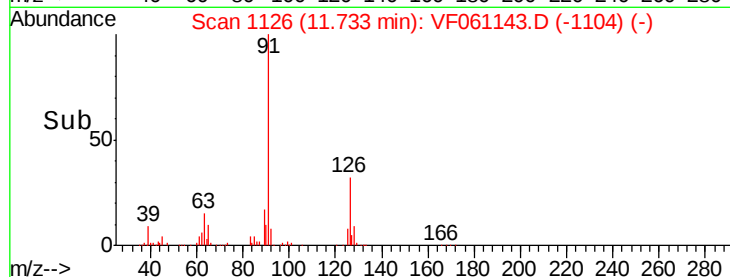
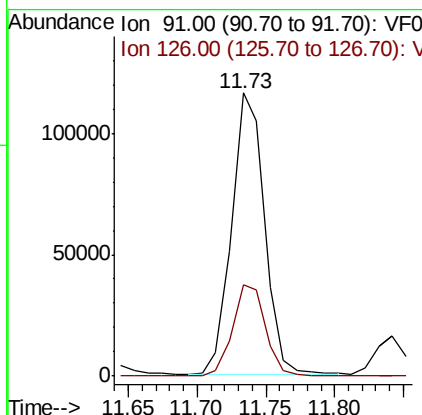
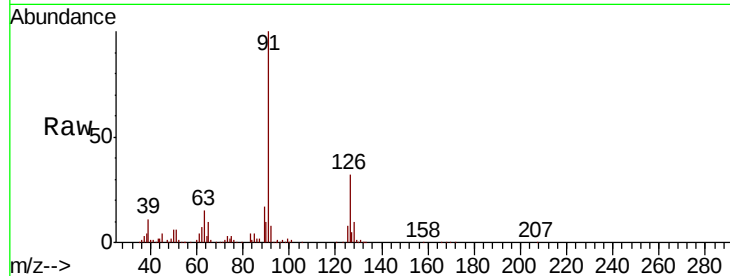




#79
 2-Chlorotoluene
 Concen: 19.419 ug/l
 RT: 11.73 min Scan# 1126
 Delta R.T. 0.01 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

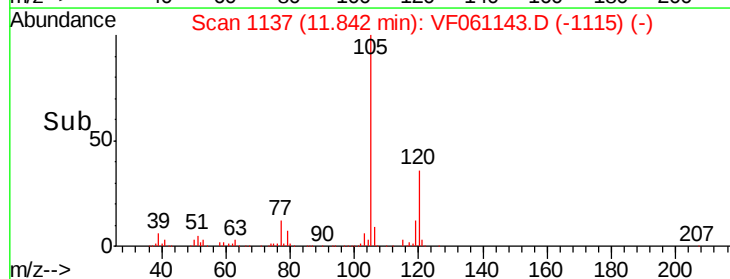
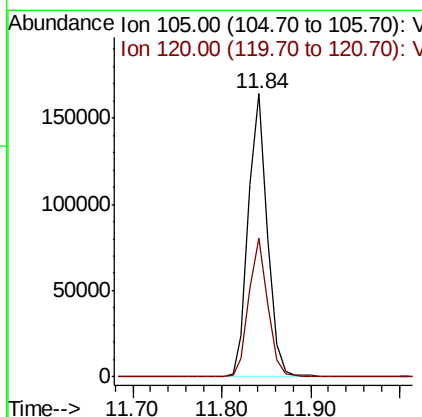
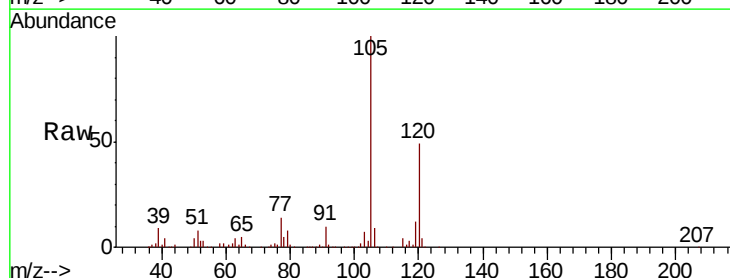
Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion: 91 Resp: 192414
 Ion Ratio Lower Upper
 91 100
 126 32.2 16.4 49.1



#80
 1,3,5-Trimethylbenzene
 Concen: 20.302 ug/l
 RT: 11.84 min Scan# 1137
 Delta R.T. 0.01 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Tgt Ion:105 Resp: 241466
 Ion Ratio Lower Upper
 105 100
 120 49.2 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 30.149 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

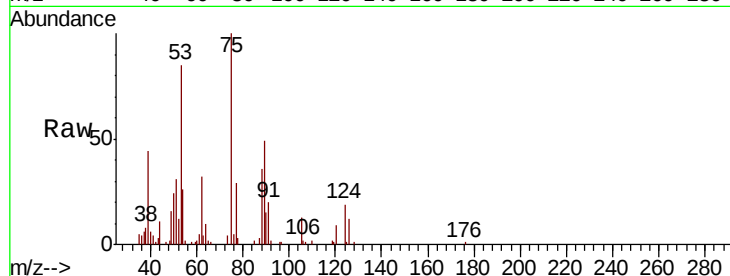
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 75 Resp: 23113

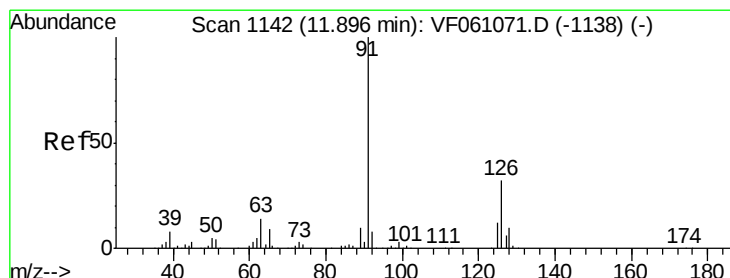
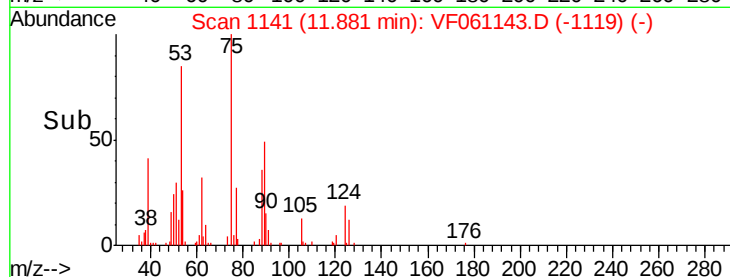
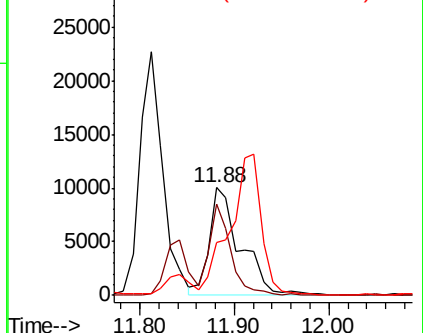
Ion	Ratio	Lower	Upper
75	100		
53	85.1	74.1	111.1
89	48.7	42.6	64.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 19.733 ug/l

RT: 11.92 min Scan# 1145

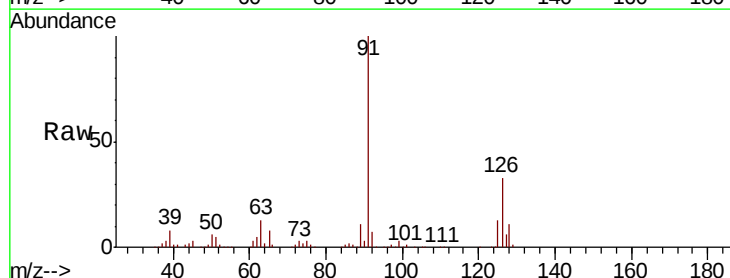
Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

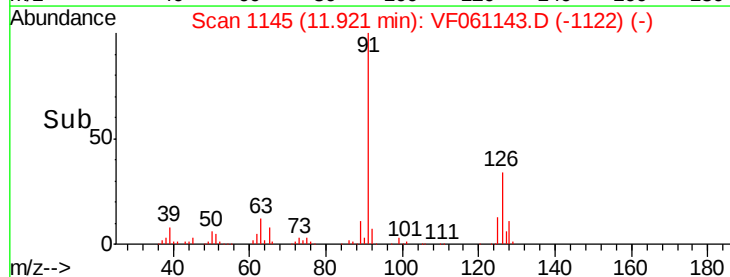
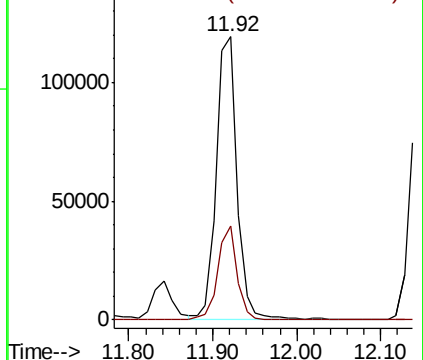
Tgt Ion: 91 Resp: 202266

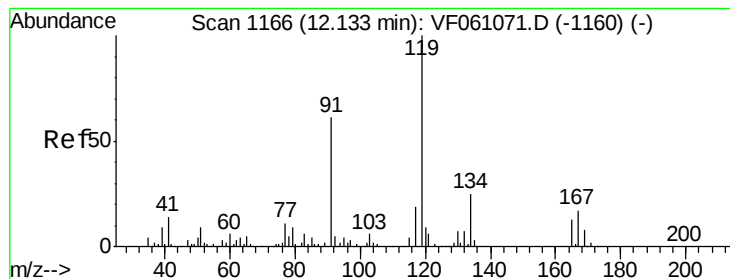
Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.0	47.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 20.066 ug/l

RT: 12.15 min Scan# 1168

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampled :

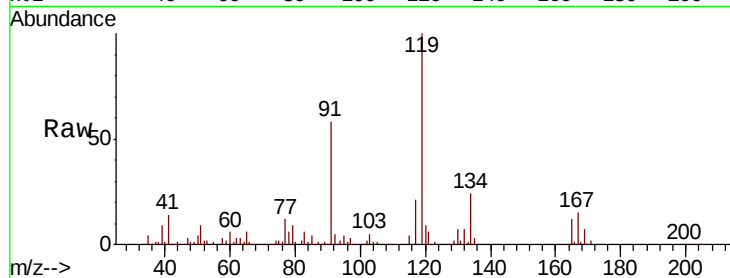
Tot Ion:119 Resp: 245591

Ion Ratio Lower Upper

119 100

91 58.5 30.5 91.5

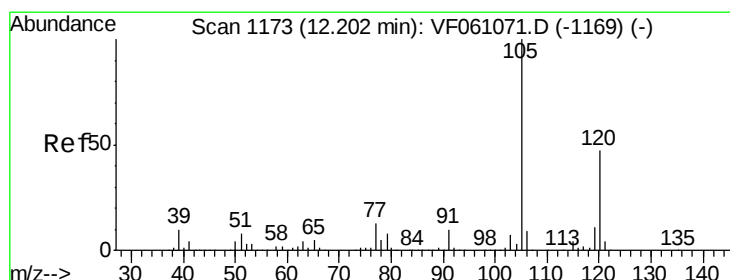
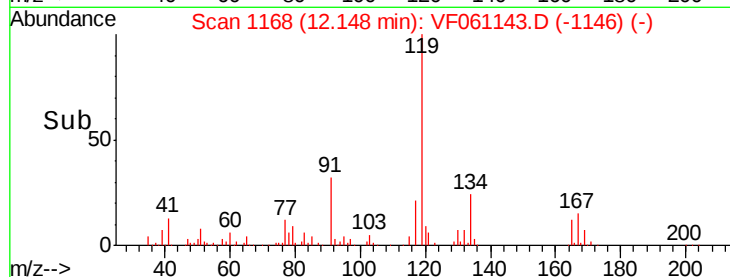
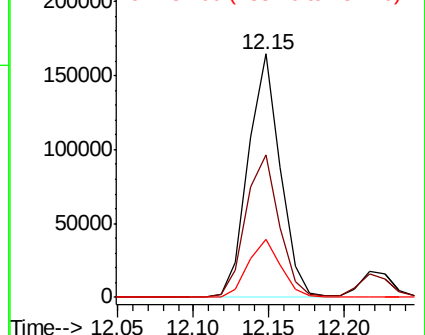
134 23.9 12.4 37.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.658 ug/l

RT: 12.22 min Scan# 1175

Delta R.T. 0.01 min

Lab File: VF061143.D

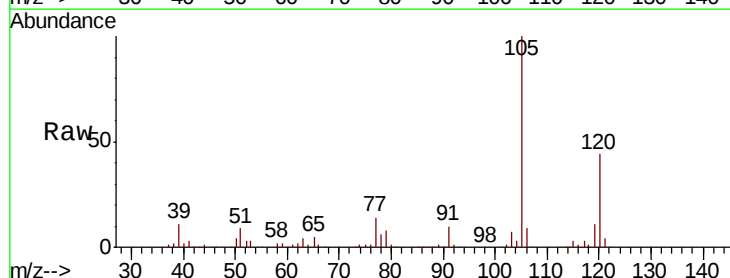
Acq: 22 Dec 2018 14:33

Tgt Ion:105 Resp: 233155

Ion Ratio Lower Upper

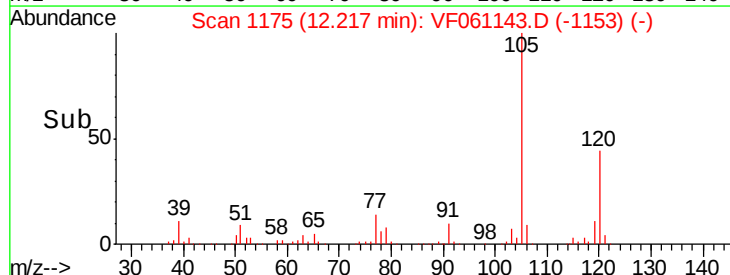
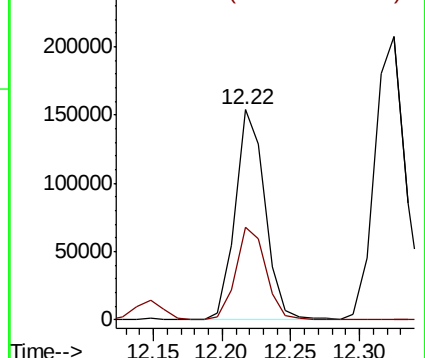
105 100

120 44.1 23.6 71.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.257 ug/l

RT: 12.33 min Scan# 1186

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

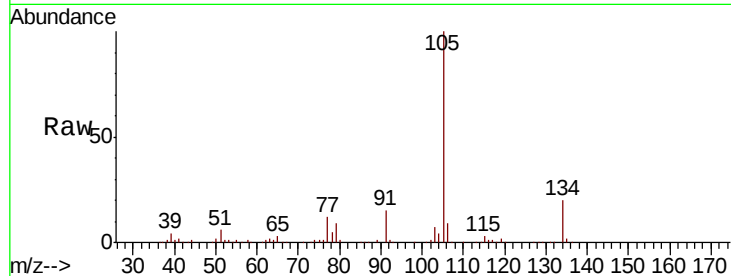
ClientSampleId :

Tot Ion:105 Resp: 323546

Ion Ratio Lower Upper

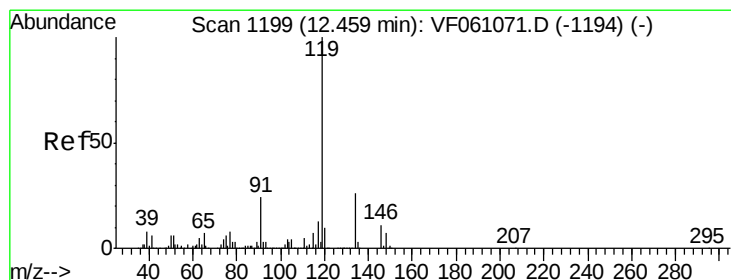
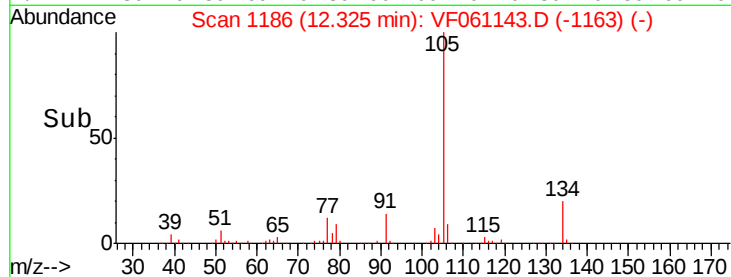
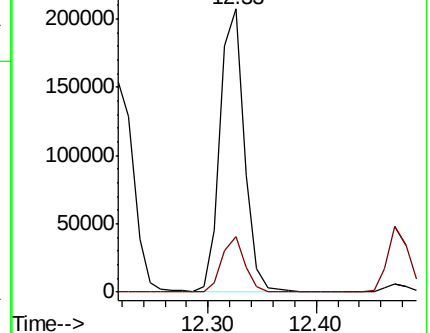
105 100

134 19.6 9.4 28.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.346 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

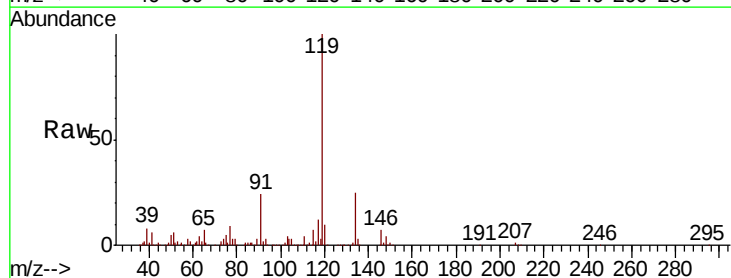
Tgt Ion:119 Resp: 269738

Ion Ratio Lower Upper

119 100

134 24.9 12.8 38.4

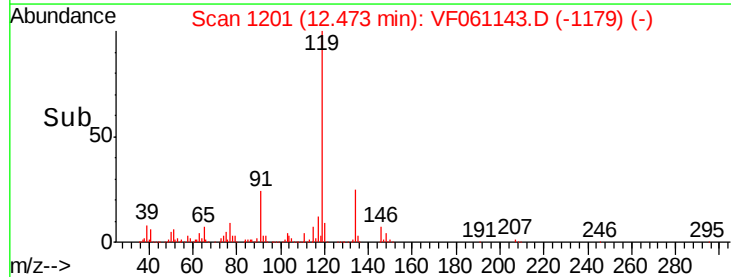
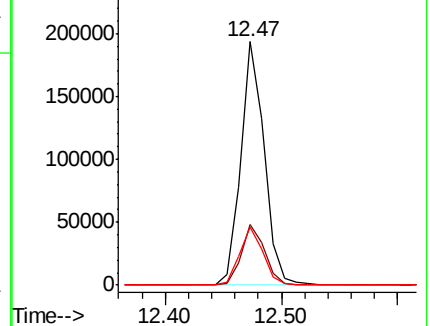
91 24.0 12.2 36.6

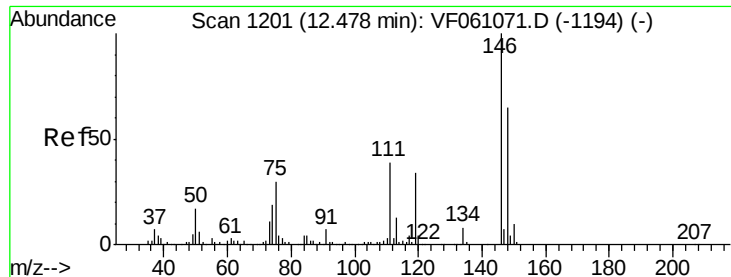


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

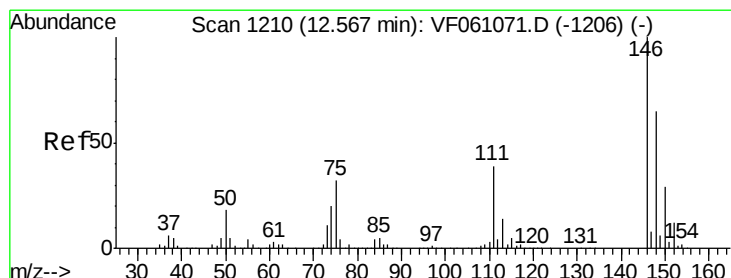
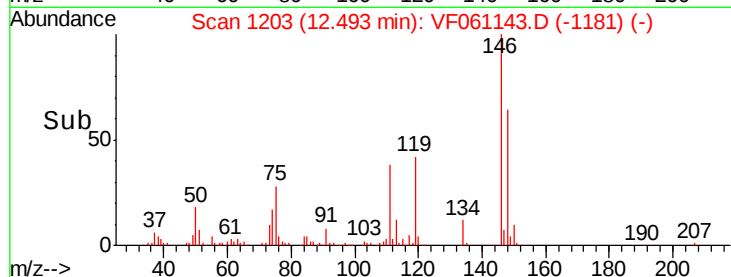
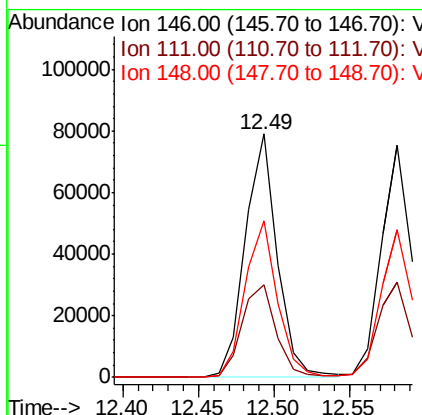
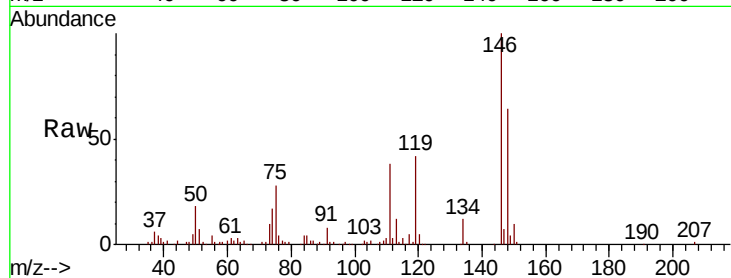




#87
 1,3-Dichlorobenzene
 Concen: 19.716 ug/l
 RT: 12.49 min Scan# 1203
 Delta R.T. 0.01 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

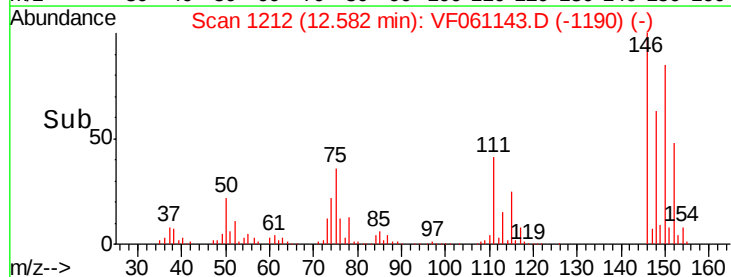
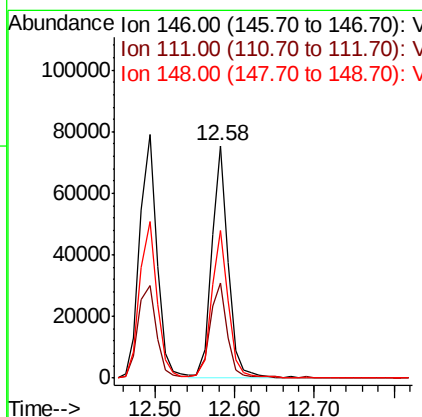
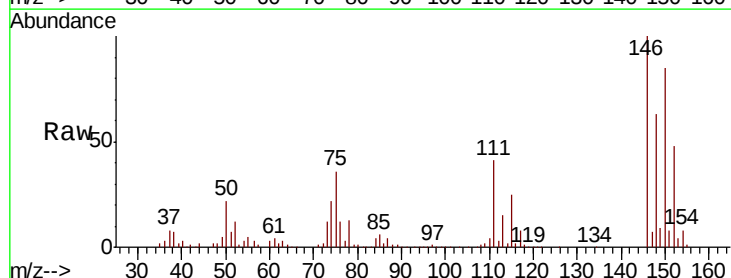
Instrument :
 MSVOA_F
 ClientSampled :

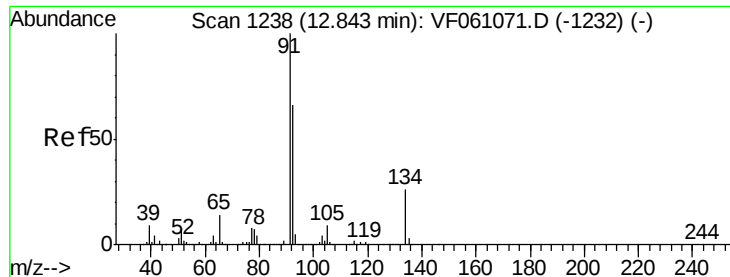
Tot Ion:146 Resp: 116578
 Ion Ratio Lower Upper
 146 100
 111 38.0 19.3 57.9
 148 64.1 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 19.241 ug/l
 RT: 12.58 min Scan# 1212
 Delta R.T. 0.01 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Tgt Ion:146 Resp: 109859
 Ion Ratio Lower Upper
 146 100
 111 41.1 19.4 58.4
 148 63.4 32.4 97.0

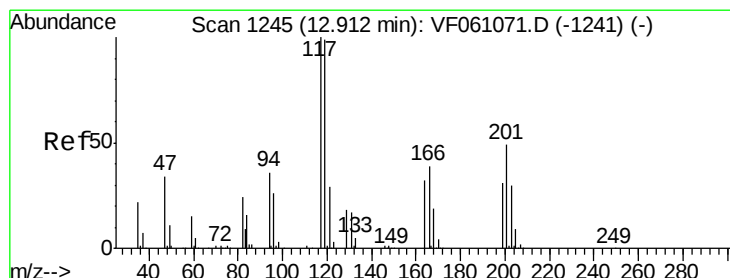
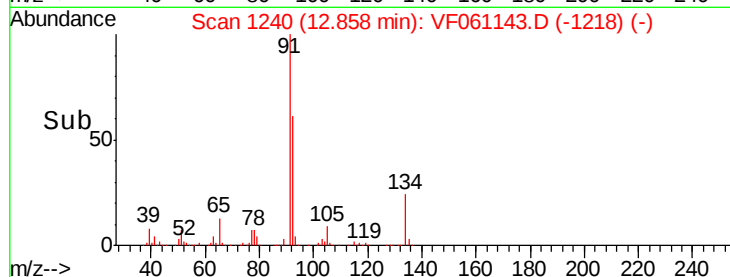
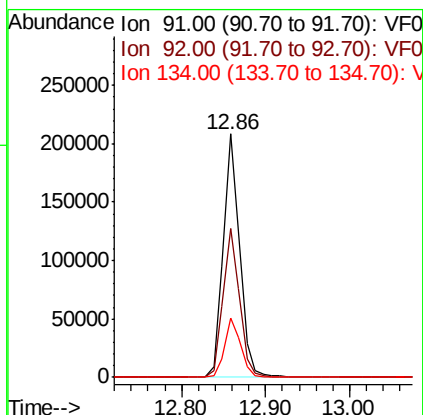
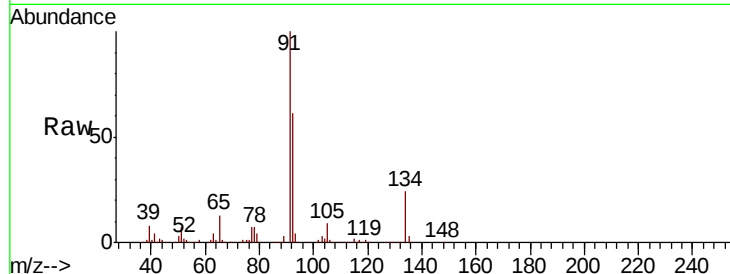




#89
n-Butylbenzene
Concen: 18.524 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. 0.01 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

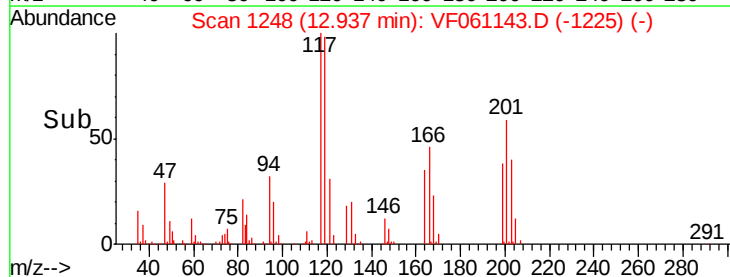
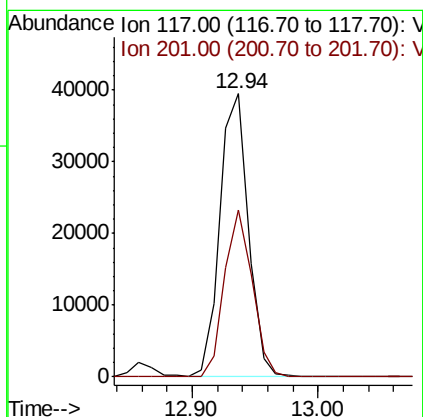
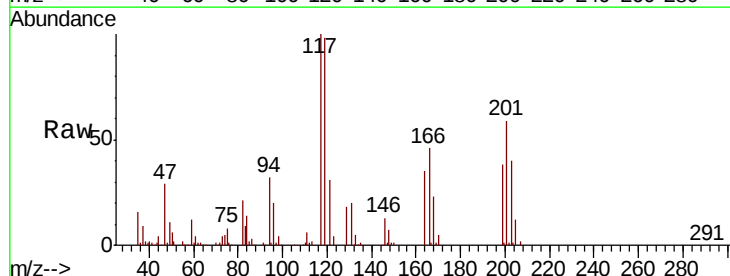
Instrument :
MSVOA_F
ClientSampleId :

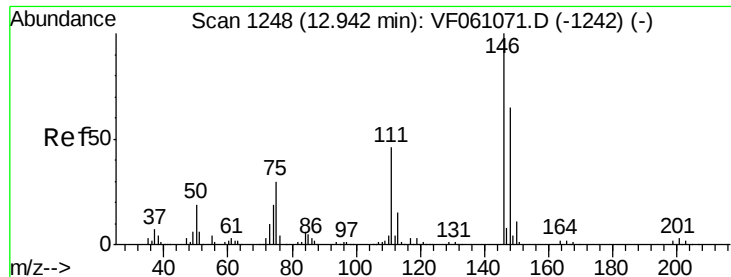
Tot Ion: 91 Resp: 282853
Ion Ratio Lower Upper
91 100
92 61.3 32.8 98.4
134 24.2 13.2 39.5



#90
Hexachloroethane
Concen: 18.978 ug/l
RT: 12.94 min Scan# 1248
Delta R.T. 0.02 min
Lab File: VF061143.D
Acq: 22 Dec 2018 14:33

Tgt Ion: 117 Resp: 62160
Ion Ratio Lower Upper
117 100
201 58.9 24.9 74.8

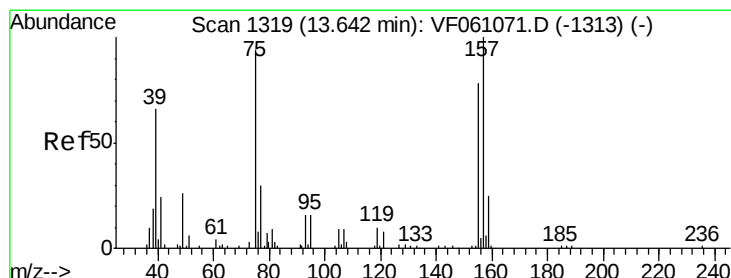
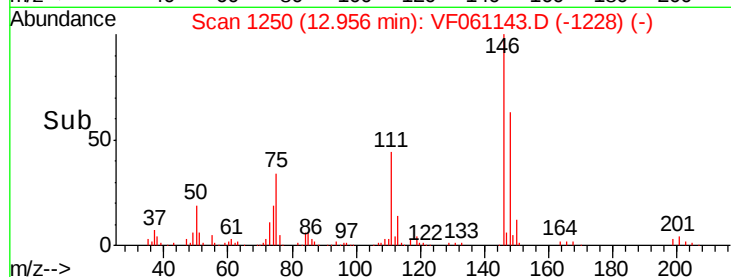
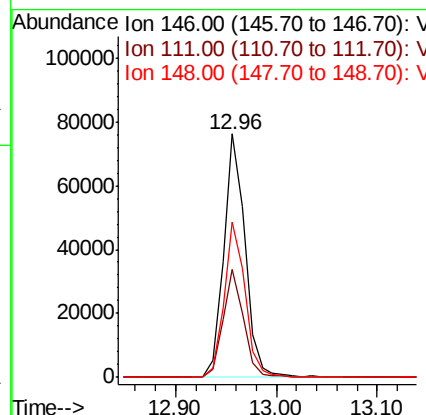
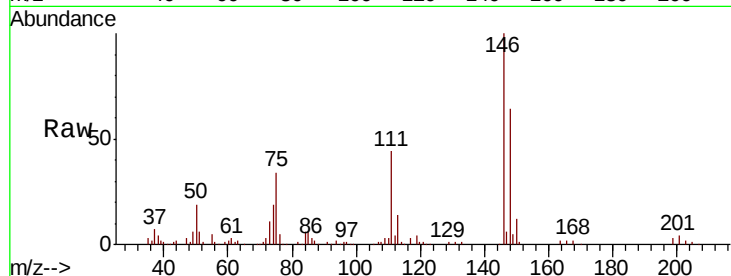




#91
 1,2-Dichlorobenzene
 Concen: 20.359 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. 0.01 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

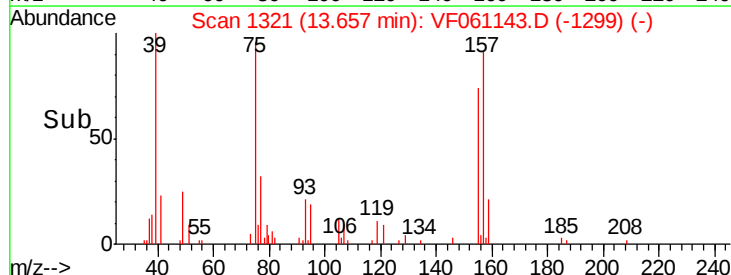
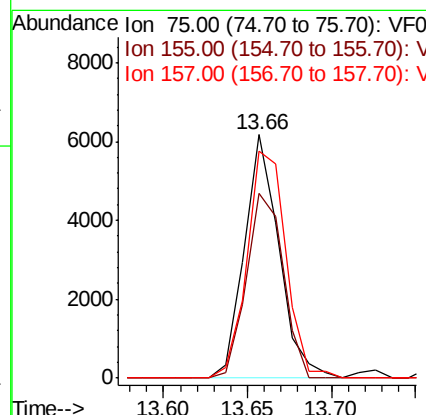
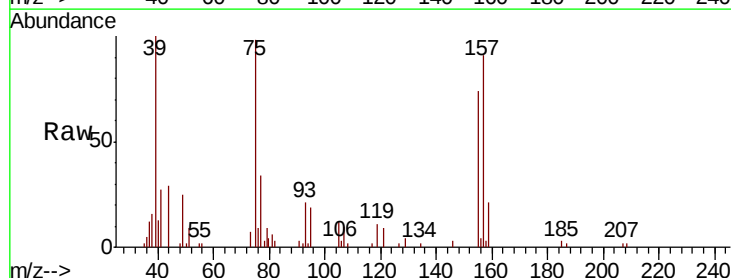
Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:146 Resp: 113172
 Ion Ratio Lower Upper
 146 100
 111 44.4 23.2 69.5
 148 63.7 32.4 97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.041 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Tgt Ion: 75 Resp: 8816
 Ion Ratio Lower Upper
 75 100
 155 75.8 41.5 124.5
 157 93.1 53.2 159.6

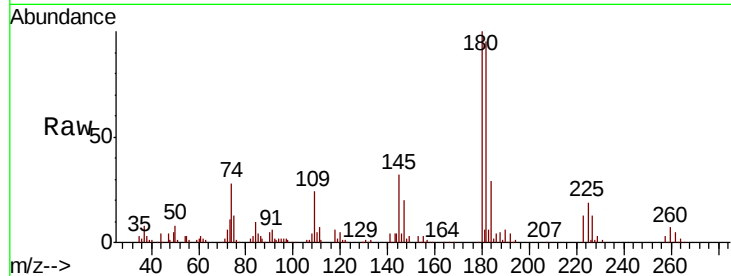




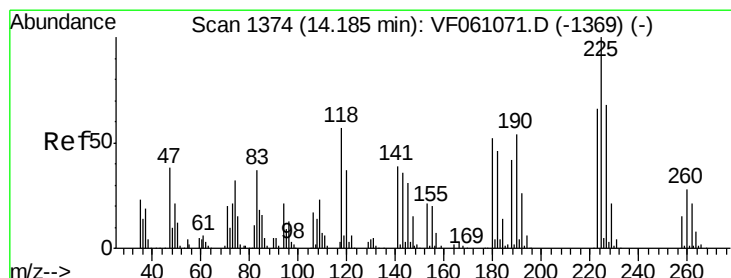
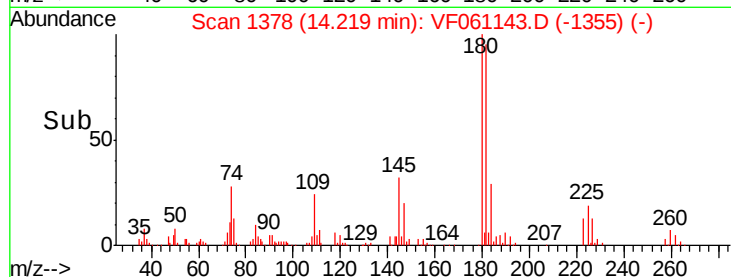
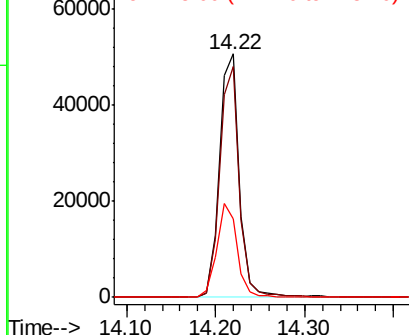
#93
 1,2,4-Trichlorobenzene
 Concen: 20.226 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.02 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:180 Resp: 79737
 Ion Ratio Lower Upper
 180 100
 182 95.1 46.9 140.6
 145 32.0 20.5 61.6

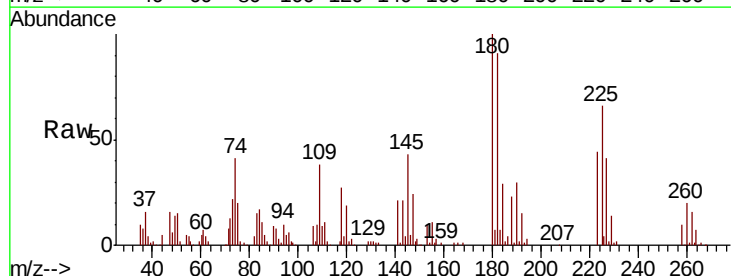


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

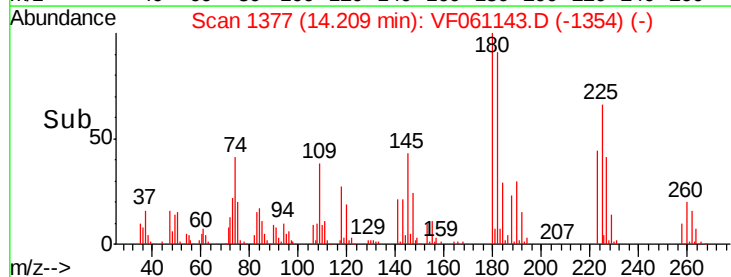
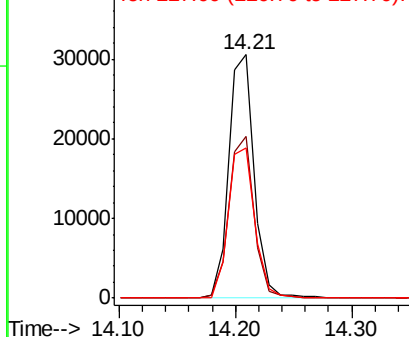


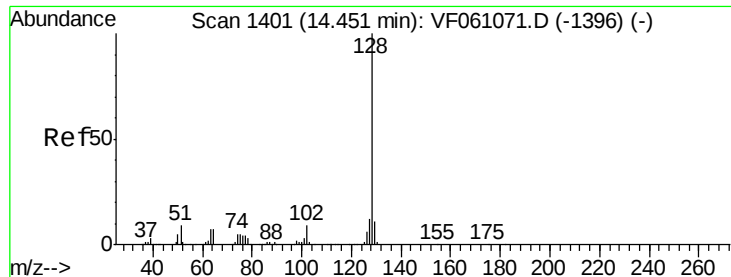
#94
 Hexachlorobutadiene
 Concen: 18.437 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.02 min
 Lab File: VF061143.D
 Acq: 22 Dec 2018 14:33

Tgt Ion:225 Resp: 46291
 Ion Ratio Lower Upper
 225 100
 223 66.3 32.8 98.3
 227 61.9 34.0 101.8



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





#95

Naphthalene

Concen: 20.586 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. 0.02 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

Instrument :

MSVOA_F

ClientSampleId :

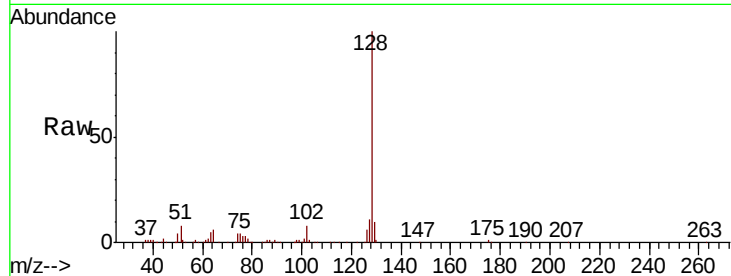
Tot Ion:128 Resp: 148189

Ion Ratio Lower Upper

128 100

127 11.0 9.4 14.2

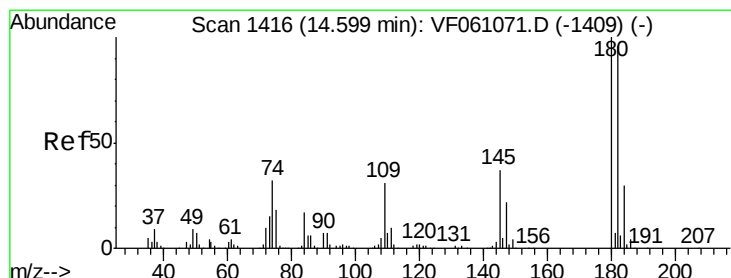
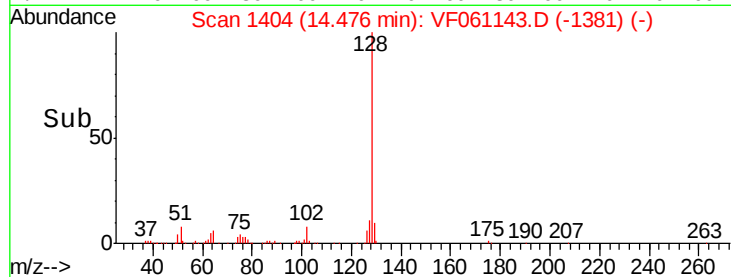
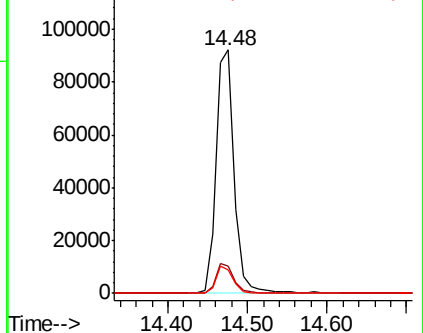
129 9.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.661 ug/l

RT: 14.61 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF061143.D

Acq: 22 Dec 2018 14:33

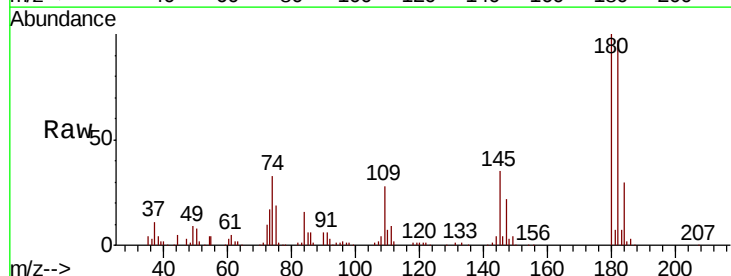
Tgt Ion:180 Resp: 71654

Ion Ratio Lower Upper

180 100

182 96.7 47.9 143.8

145 34.9 18.6 55.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

