

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\
 Data File : VF061363.D
 Acq On : 11 Jan 2019 12:50
 Operator : VA/AP
 Sample : VF0111SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Quant Time: Jan 12 03:30:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	177571	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	309091	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.75	117	297226	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.53	152	146440	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	110873	56.10	ug/l	-0.03
Spiked Amount			Recovery	=	112.20%	
35) Dibromofluoromethane	4.09	113	131313	55.52	ug/l	-0.02
Spiked Amount			Recovery	=	111.04%	
50) Toluene-d8	7.53	98	366360	52.35	ug/l	-0.03
Spiked Amount			Recovery	=	104.70%	
62) 4-Bromofluorobenzene	11.39	95	164340	53.77	ug/l	-0.02
Spiked Amount			Recovery	=	107.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	68742	20.987	ug/l	99
3) Chloromethane	1.08	50	57650	19.751	ug/l	90
4) Vinyl Chloride	1.13	62	47006	18.031	ug/l	96
5) Bromomethane	1.30	94	33702	17.303	ug/l	94
6) Chloroethane	1.37	64	19673	15.454	ug/l #	84
7) Trichlorofluoromethane	1.46	101	92008	20.819	ug/l	98
8) Diethyl Ether	1.62	74	10289	15.855	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.81	101	45451	19.477	ug/l	95
10) Methyl Iodide	1.83	142	21408	5.856	ug/l	96
11) Tert butyl alcohol	2.56	59	6211	78.487	ug/l #	80
12) 1,1-Dichloroethene	1.77	96	35373	18.957	ug/l	94
13) Acrolein	1.99	56	7130	67.375	ug/l	87
14) Allyl chloride	2.09	41	59147	17.341	ug/l	89
15) Acrylonitrile	2.93	53	21283	75.867	ug/l	98
16) Acetone	2.23	43	49268	107.157	ug/l #	86
17) Carbon Disulfide	1.79	76	109145	17.709	ug/l	100
18) Methyl Acetate	2.34	43	16571	18.319	ug/l #	89
19) Methyl tert-butyl Ether	2.41	73	62621	17.611	ug/l	98
20) Methylene Chloride	2.17	84	20514	10.546	ug/l	97
21) trans-1,2-Dichloroethene	2.30	96	36114	18.264	ug/l	94
22) Diisopropyl ether	2.79	45	114826	17.402	ug/l	99
23) Vinyl Acetate	3.17	43	184519	95.619	ug/l	97
24) 1,1-Dichloroethane	2.86	63	73019	19.130	ug/l	97
25) 2-Butanone	4.31	43	71984	97.275	ug/l	97
26) 2,2-Dichloropropane	3.59	77	44966	17.629	ug/l	95
27) cis-1,2-Dichloroethene	3.46	96	48339	17.510	ug/l	98
28) Bromochloromethane	3.70	49	37708	22.406	ug/l #	96
29) Tetrahydrofuran	4.06	42	30188	97.569	ug/l	97
30) Chloroform	3.84	83	100049	20.648	ug/l	95
31) Cyclohexane	3.69	56	82207	20.529	ug/l	98
32) 1,1,1-Trichloroethane	4.08	97	75957	19.407	ug/l	91
36) 1,1-Dichloropropene	4.26	75	71664	19.855	ug/l	97
37) Ethyl Acetate	4.09	43	25328	19.269	ug/l #	79
38) Carbon Tetrachloride	3.97	117	67024	19.606	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	83625	18.516	ug/l	98
40) Benzene	4.61	78	170609	20.246	ug/l	99
41) Methacrylonitrile	4.72	41	15240	20.762	ug/l	96
42) 1,2-Dichloroethane	4.92	62	55748	21.249	ug/l	99
43) Isopropyl Acetate	6.94	43	34627	19.954	ug/l #	96
44) Trichloroethene	5.48	130	53357	21.636	ug/l	94
45) 1,2-Dichloropropane	6.21	63	41075	19.168	ug/l	99
46) Dibromomethane	6.06	93	25974	19.741	ug/l	94
47) Bromodichloromethane	6.36	83	72722	22.224	ug/l	95
48) Methyl methacrylate	6.70	41	20772	18.441	ug/l	96
49) 1,4-Dioxane	6.70	88	2779	390.999	ug/l	88
51) 4-Methyl-2-Pentanone	8.23	43	127888	97.637	ug/l	100
52) Toluene	7.60	92	109632	20.241	ug/l	98
53) t-1,3-Dichloropropene	8.25	75	56378	21.939	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	72811	21.369	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	30745	20.285	ug/l	96
56) Ethyl methacrylate	8.60	69	32781	19.352	ug/l	93
57) 1,3-Dichloropropane	8.84	76	57749	21.529	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.28	63	6102	84.530	ug/l	99
59) 2-Hexanone	9.48	43	98385	106.024	ug/l	100
60) Dibromochloromethane	8.70	129	43922	21.763	ug/l	91
61) 1,2-Dibromoethane	8.96	107	30770	19.916	ug/l	98
64) Tetrachloroethene	8.14	164	46254	21.374	ug/l	96
65) Chlorobenzene	9.78	112	122818	20.463	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	50029	20.428	ug/l	99
67) Ethyl Benzene	9.88	91	240289	20.764	ug/l	93
68) m/p-Xylenes	10.11	106	162825	40.336	ug/l	98
69) o-Xylene	10.70	106	92407	20.493	ug/l	98
70) Styrene	10.77	104	128479	21.388	ug/l	97
71) Bromoform	10.76	173	19763	19.745	ug/l	94
73) Isopropylbenzene	11.10	105	273450	21.221	ug/l	99
74) N-amyl acetate	11.36	43	56325	19.229	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	41189	20.160	ug/l	99
76) 1,2,3-Trichloropropane	11.78	75	30015	20.030	ug/l	96
77) Bromobenzene	11.48	156	55066	21.480	ug/l	93
78) n-propylbenzene	11.58	91	318701	20.743	ug/l	99
79) 2-Chlorotoluene	11.71	91	178676	20.874	ug/l	100
80) 1,3,5-Trimethylbenzene	11.80	105	219218	21.380	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.85	75	18670	28.511	ug/l	100
82) 4-Chlorotoluene	11.88	91	178443	20.515	ug/l	97
83) tert-Butylbenzene	12.12	119	219212	21.459	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	214046	21.026	ug/l	95
85) sec-Butylbenzene	12.29	105	292647	20.120	ug/l	96
86) p-Isopropyltoluene	12.45	119	245805	20.777	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	103274	20.629	ug/l	96
88) 1,4-Dichlorobenzene	12.55	146	101649	21.120	ug/l	96
89) n-Butylbenzene	12.83	91	264026	21.720	ug/l	95
90) Hexachloroethane	12.90	117	57878	21.387	ug/l	91
91) 1,2-Dichlorobenzene	12.93	146	98426	20.598	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7335	21.248	ug/l	73

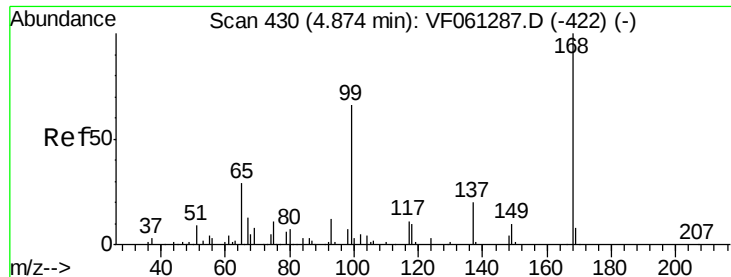
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Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	67704	20.589	ug/l	99
94) Hexachlorobutadiene	14.18	225	42822	20.228	ug/l	96
95) Naphthalene	14.45	128	109104	17.606	ug/l	97
96) 1,2,3-Trichlorobenzene	14.59	180	58150	18.773	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

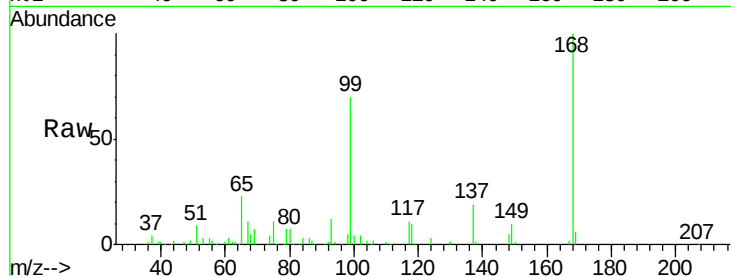
VF0111SBS01

Tot Ion:168 Resp: 177571

Ion Ratio Lower Upper

168 100

99 69.7 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

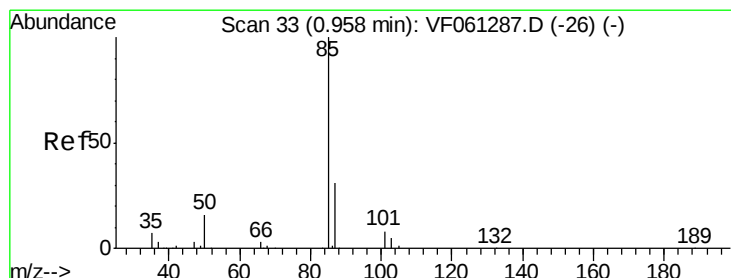
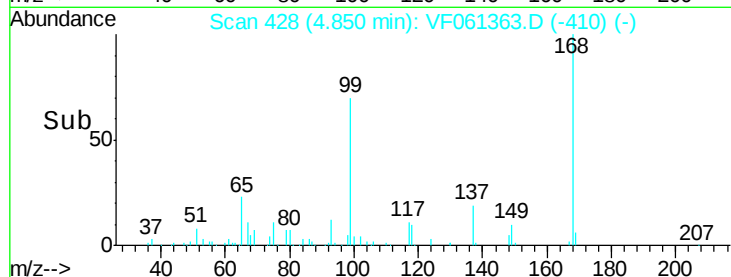
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 20.987 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061363.D

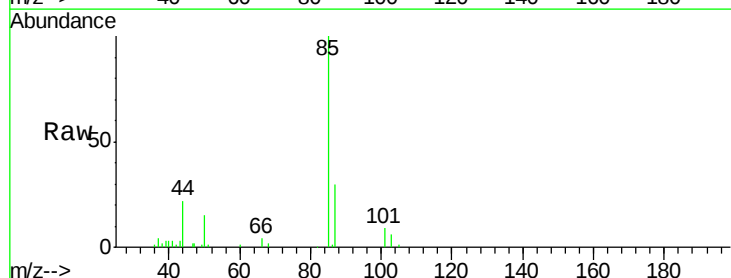
Acq: 11 Jan 2019 12:50

Tgt Ion: 85 Resp: 68742

Ion Ratio Lower Upper

85 100

87 30.1 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

25000

20000

15000

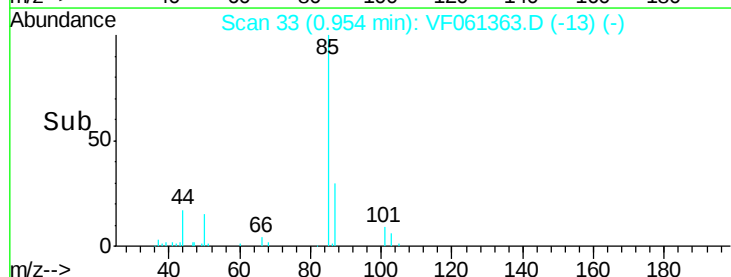
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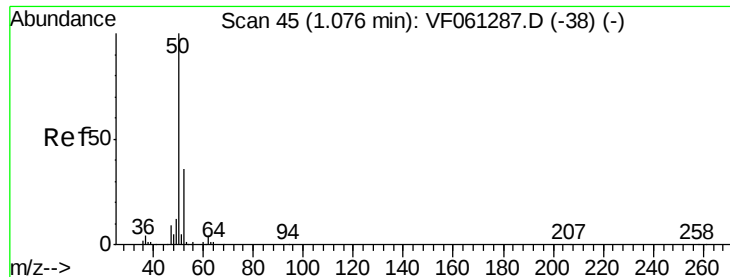
5000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 19.751 ug/l

RT: 1.08 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

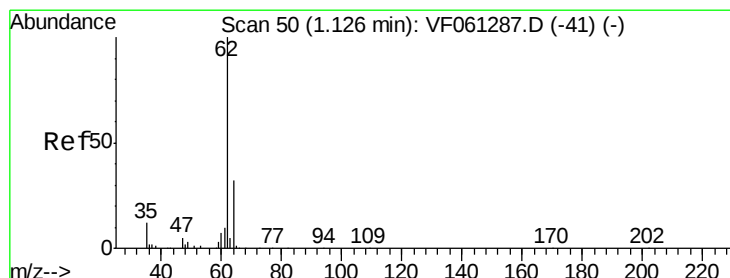
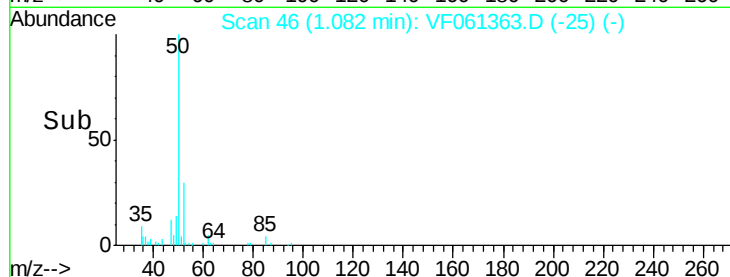
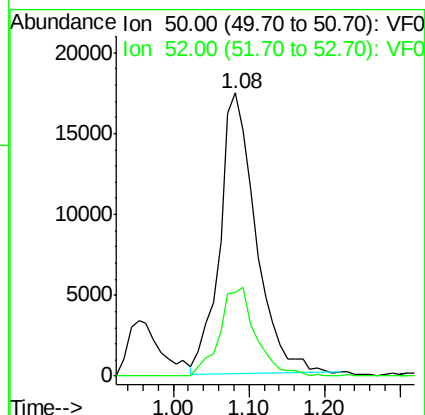
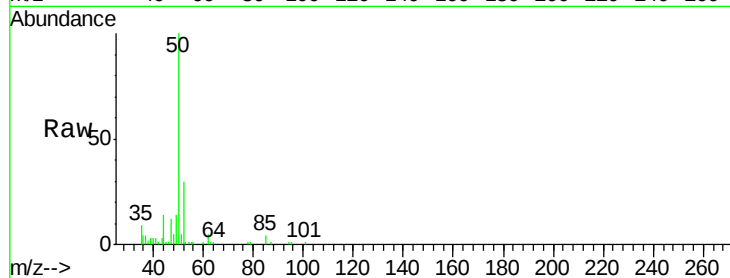
VF0111SBS01

Tot Ion: 50 Resp: 57650

Ion Ratio Lower Upper

50 100

52 29.5 28.2 42.2



#4

Vinyl Chloride

Concen: 18.031 ug/l

RT: 1.13 min Scan# 51

Delta R.T. 0.01 min

Lab File: VF061363.D

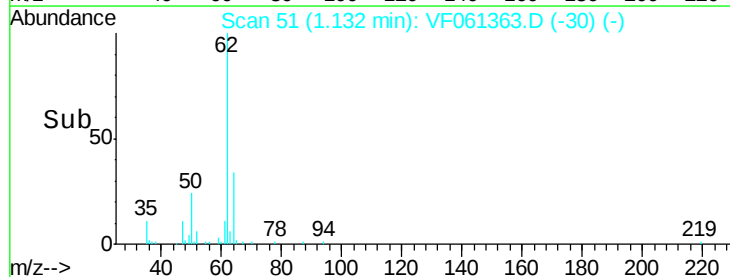
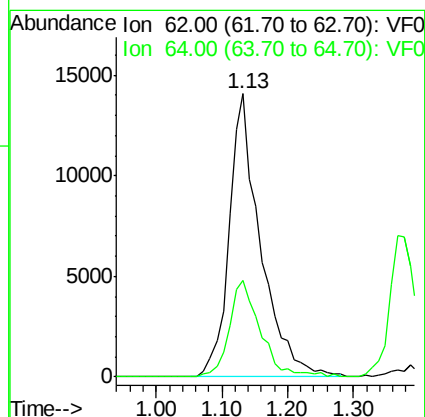
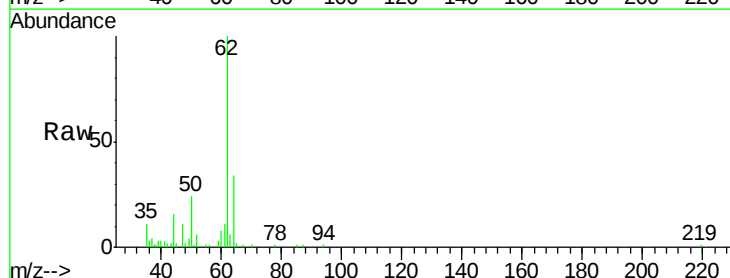
Acq: 11 Jan 2019 12:50

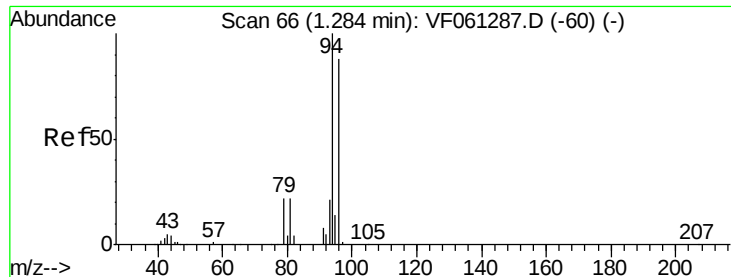
Tgt Ion: 62 Resp: 47006

Ion Ratio Lower Upper

62 100

64 34.1 25.4 38.0





#5

Bromomethane

Concen: 17.303 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

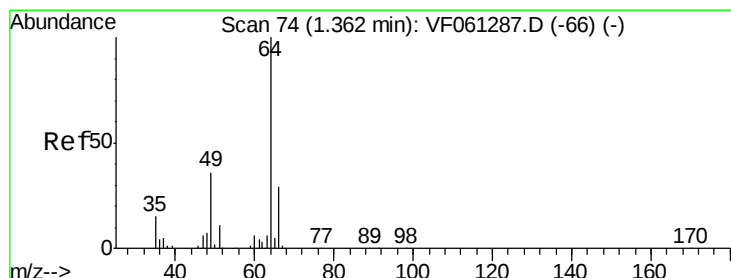
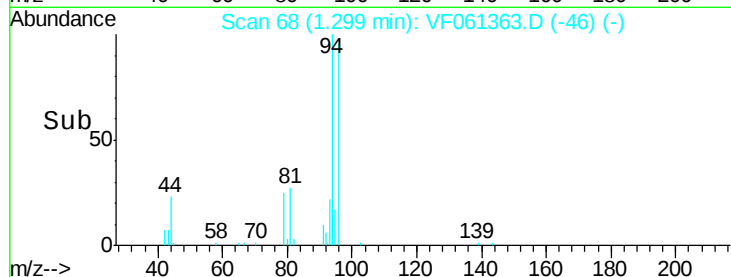
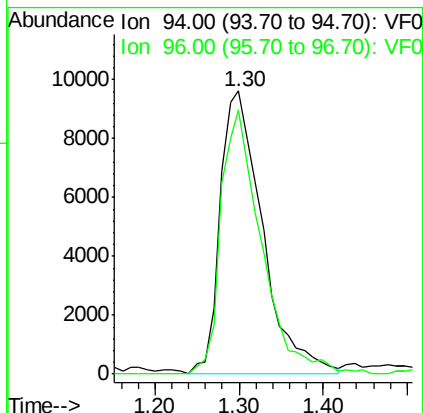
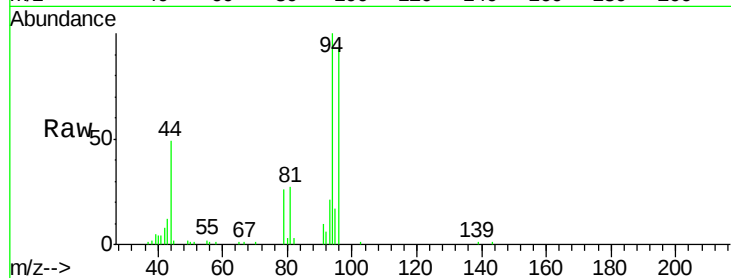
VF0111SBS01

Tot Ion: 94 Resp: 33702

Ion Ratio Lower Upper

94 100

96 93.3 70.2 105.4



#6

Chloroethane

Concen: 15.454 ug/l

RT: 1.37 min Scan# 75

Delta R.T. 0.01 min

Lab File: VF061363.D

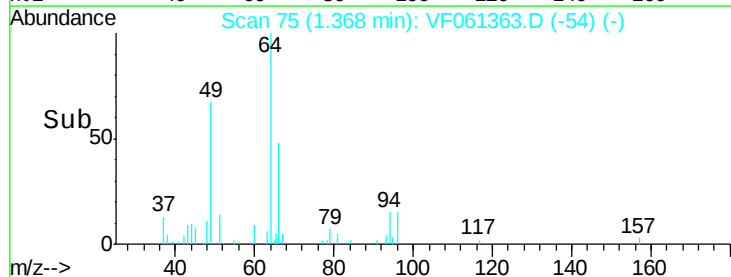
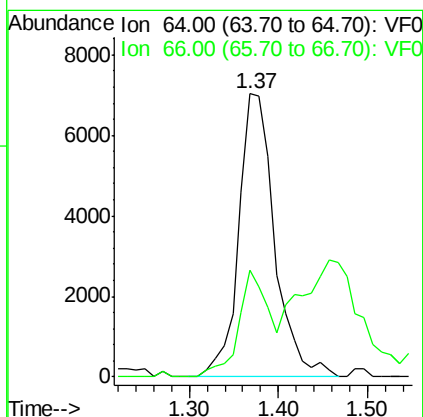
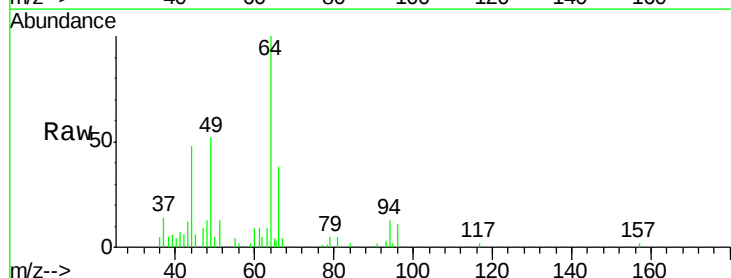
Acq: 11 Jan 2019 12:50

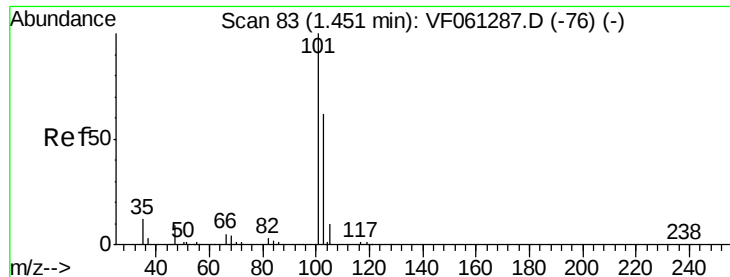
Tgt Ion: 64 Resp: 19673

Ion Ratio Lower Upper

64 100

66 37.6 23.4 35.0#



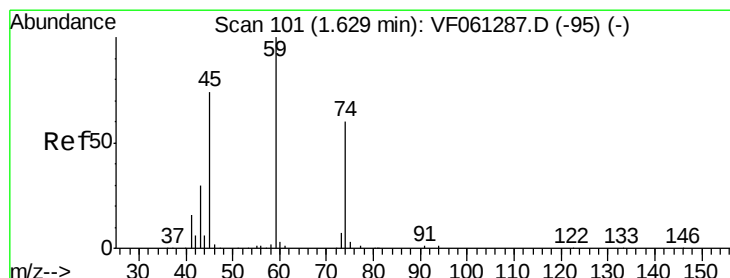
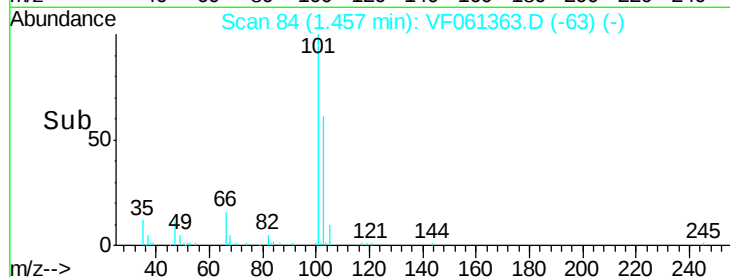
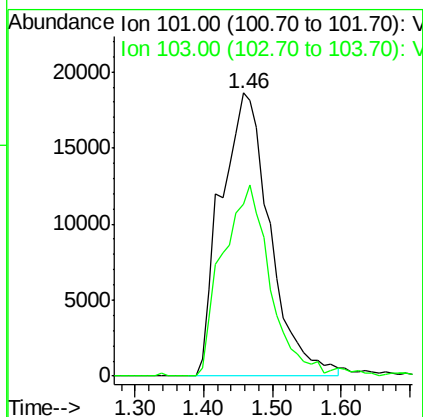
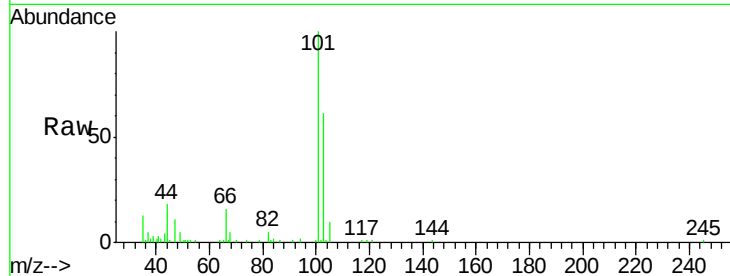


#7

Trichlorofluoromethane
Concen: 20.819 ug/l
RT: 1.46 min Scan# 84
Delta R.T. 0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

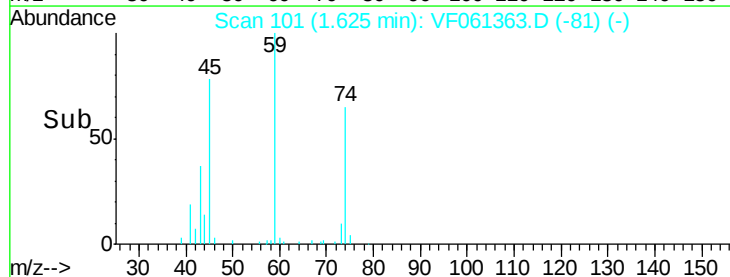
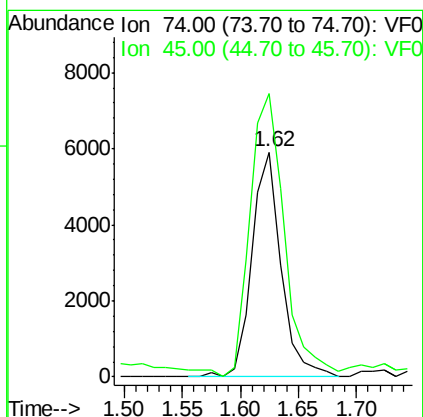
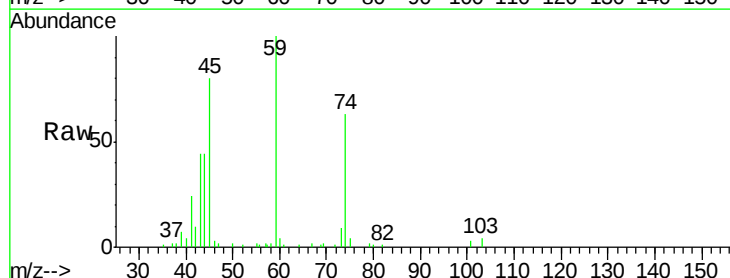
Tot Ion:101 Resp: 92008
Ion Ratio Lower Upper
101 100
103 61.0 49.9 74.9

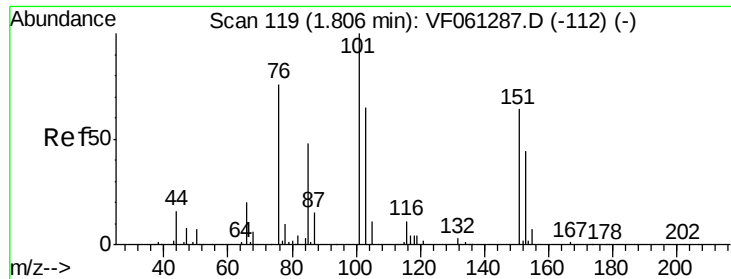


#8

Diethyl Ether
Concen: 15.855 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 74 Resp: 10289
Ion Ratio Lower Upper
74 100
45 125.9 62.1 186.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.477 ug/l

RT: 1.81 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

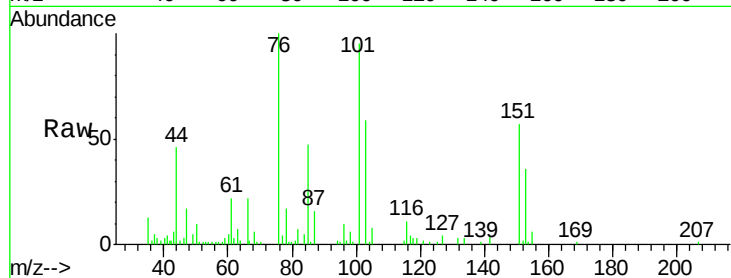
Tot Ion:101 Resp: 45451

Ion Ratio Lower Upper

101 100

85 49.7 38.4 57.6

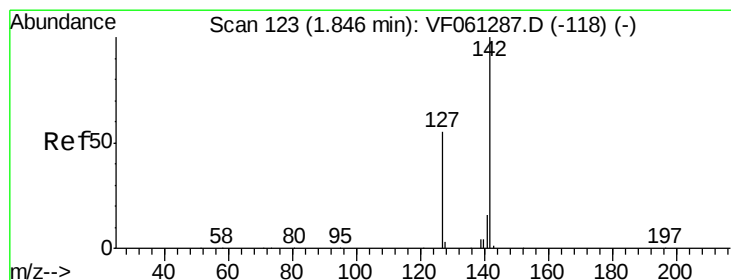
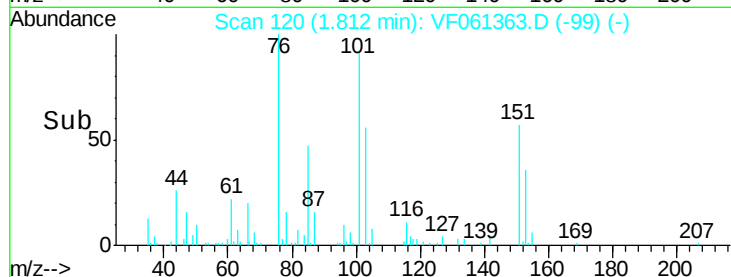
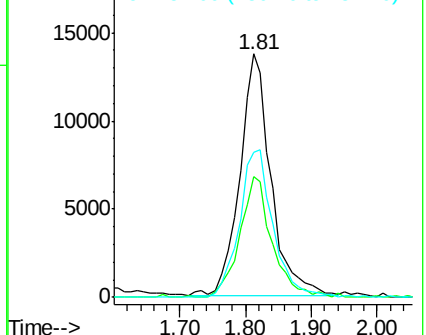
151 59.5 51.4 77.2



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: 5.856 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

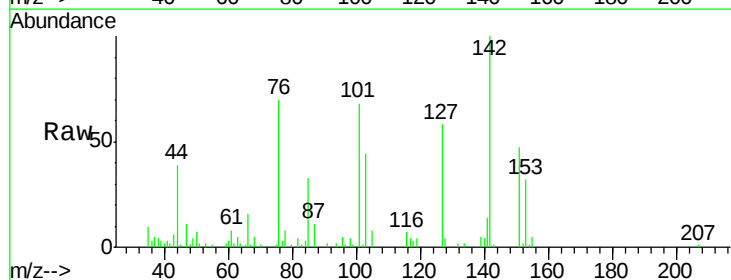
Tgt Ion:142 Resp: 21408

Ion Ratio Lower Upper

142 100

127 58.0 44.3 66.5

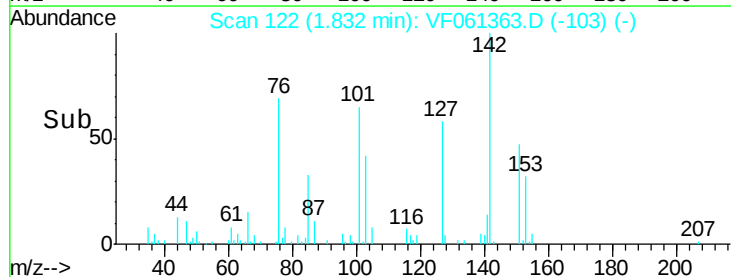
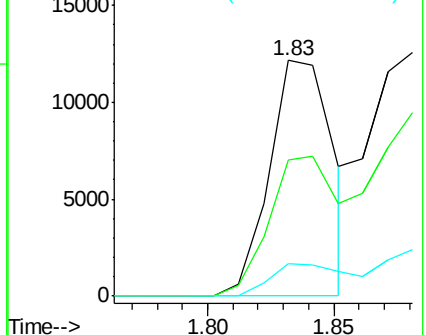
141 13.5 13.2 19.8

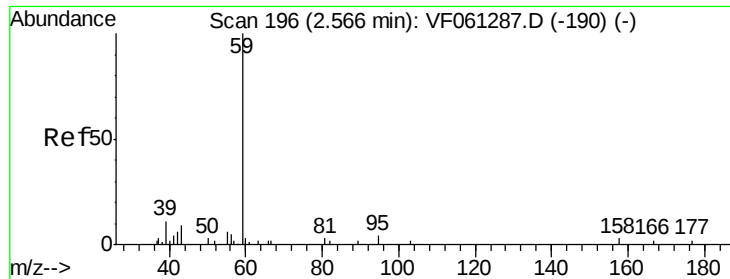


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

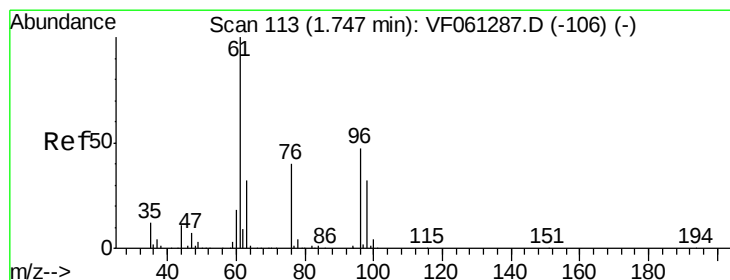
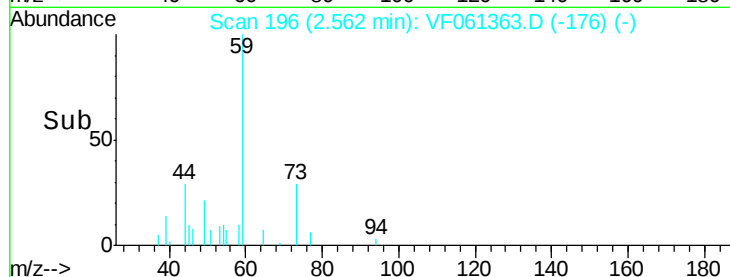
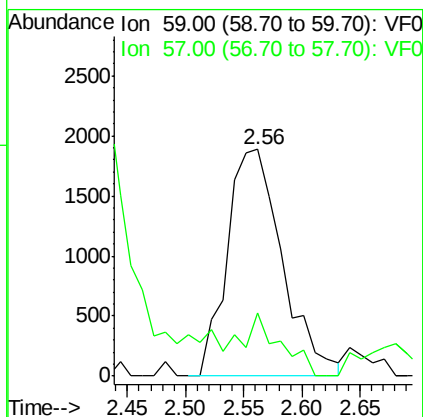
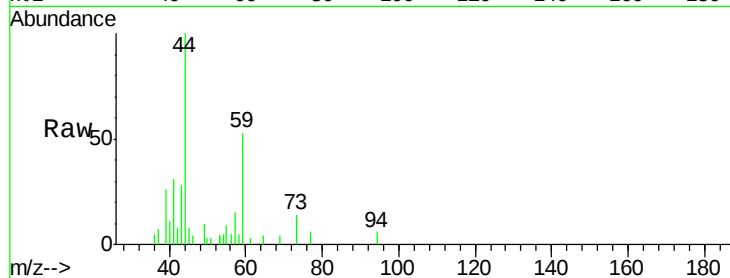




#11
Tert butyl alcohol
Concen: 78.487 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

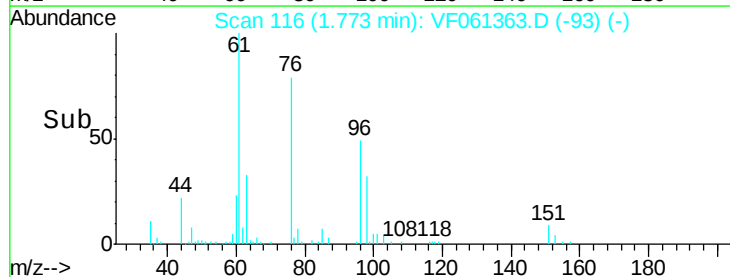
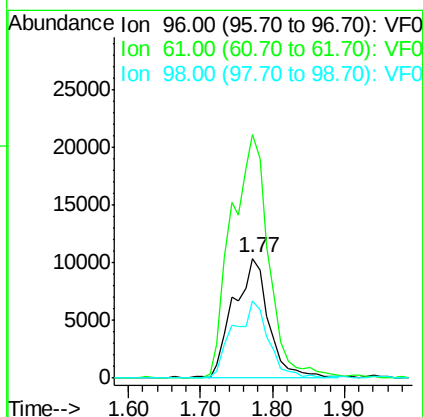
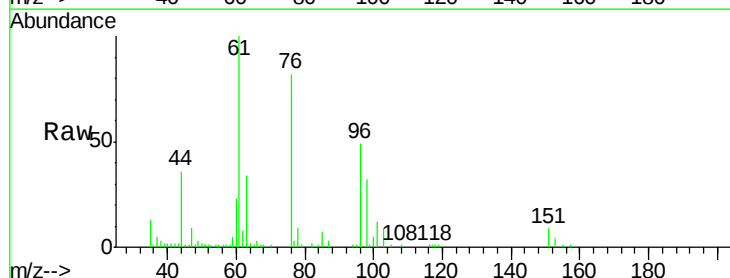
Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

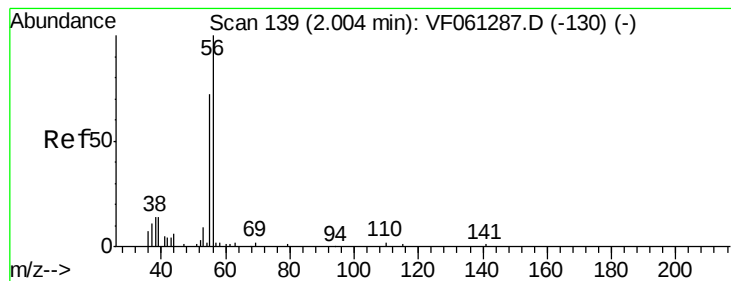
Tot Ion: 59 Resp: 6211
Ion Ratio Lower Upper
59 100
57 27.9 15.1 22.7#



#12
1,1-Dichloroethene
Concen: 18.957 ug/l
RT: 1.77 min Scan# 116
Delta R.T. 0.03 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 96 Resp: 35373
Ion Ratio Lower Upper
96 100
61 203.8 171.8 257.8
98 64.3 54.2 81.4





#13

Acrolein

Concen: 67.375 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

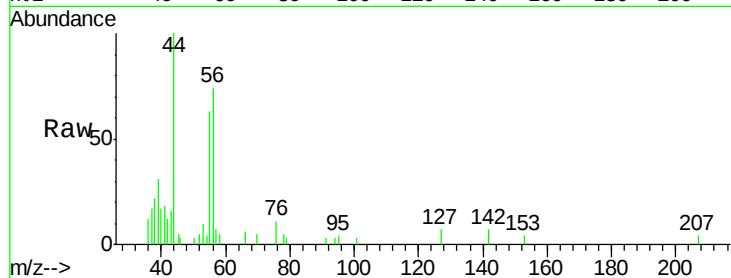
VF0111SBS01

Tot Ion: 56 Resp: 7130

Ion Ratio Lower Upper

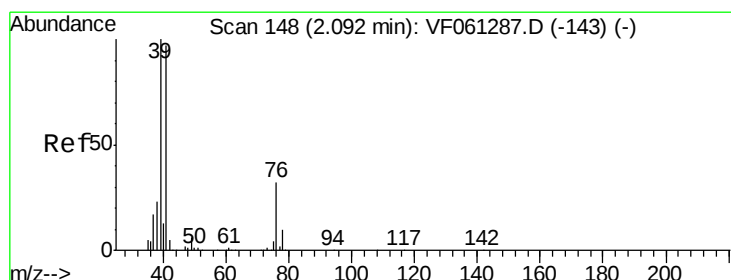
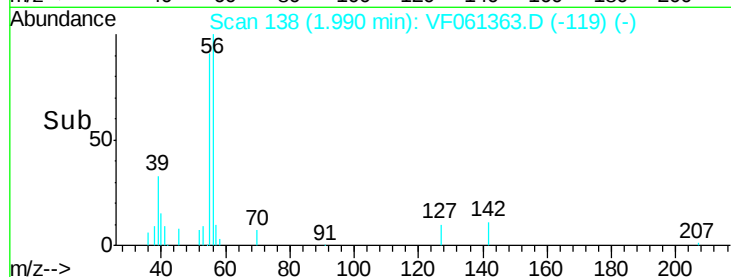
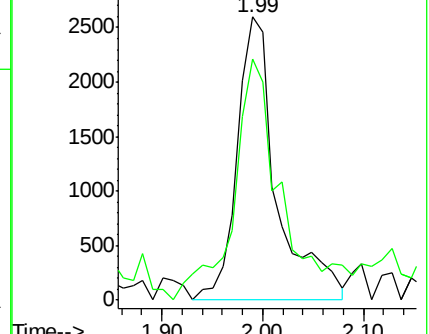
56 100

55 85.4 59.4 89.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 17.341 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

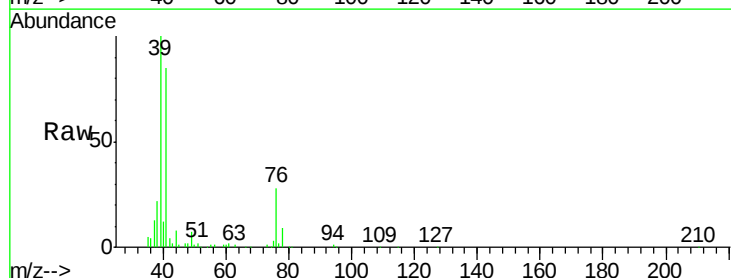
Tgt Ion: 41 Resp: 59147

Ion Ratio Lower Upper

41 100

39 117.8 82.6 123.8

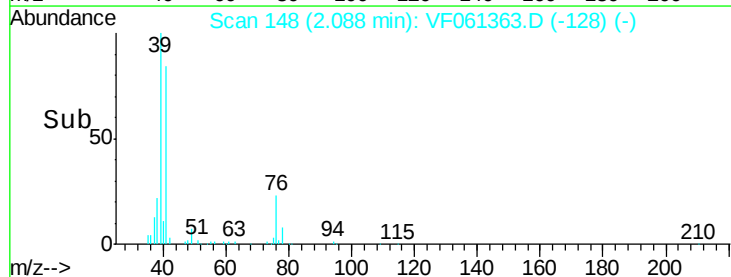
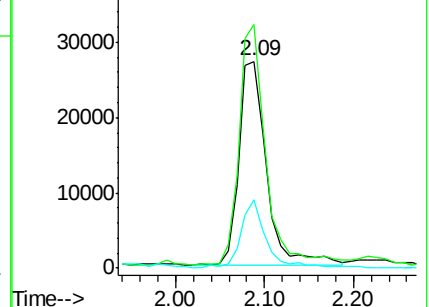
76 33.3 26.9 40.3

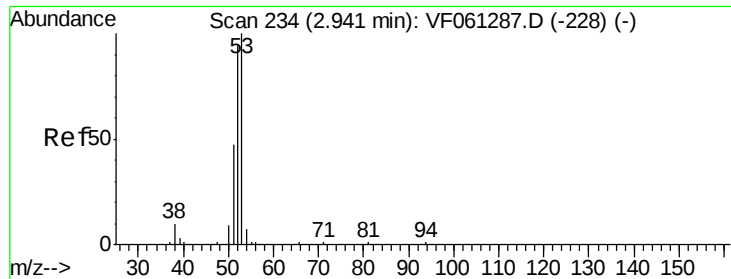


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 75.867 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

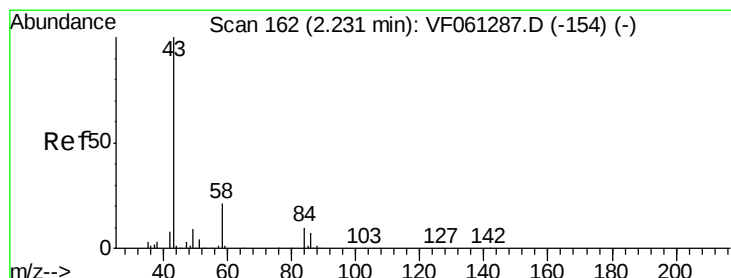
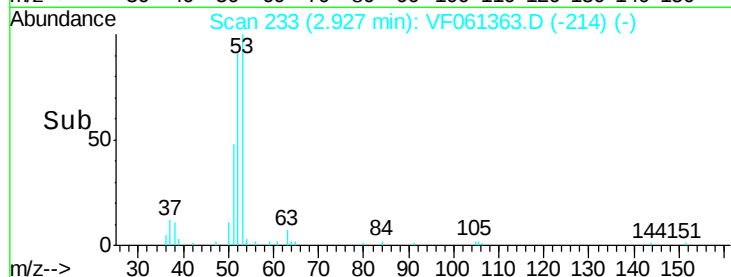
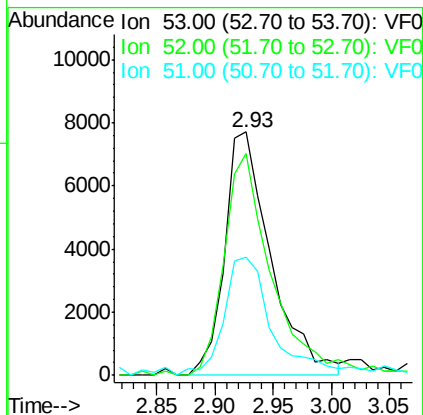
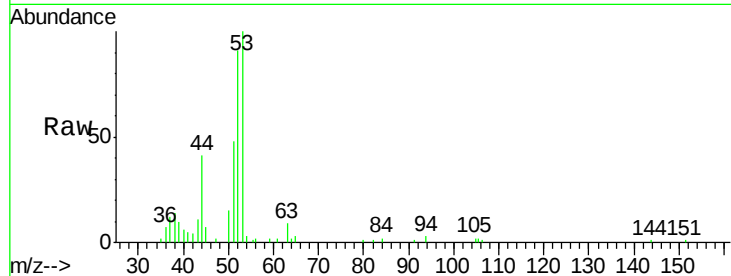
Tot Ion: 53 Resp: 21283

Ion Ratio Lower Upper

53 100

52 90.9 74.6 111.8

51 48.5 37.8 56.6



#16

Acetone

Concen: 107.157 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061363.D

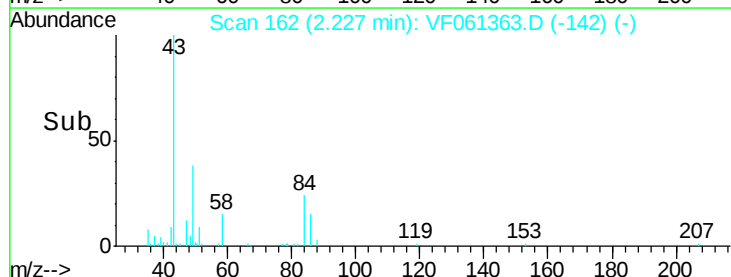
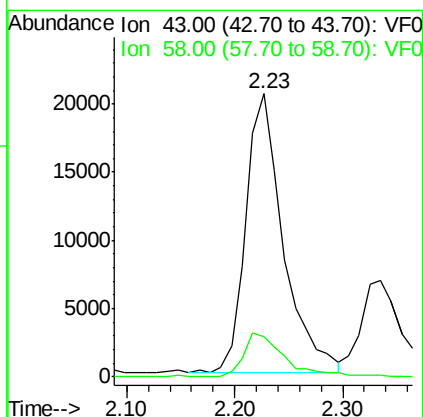
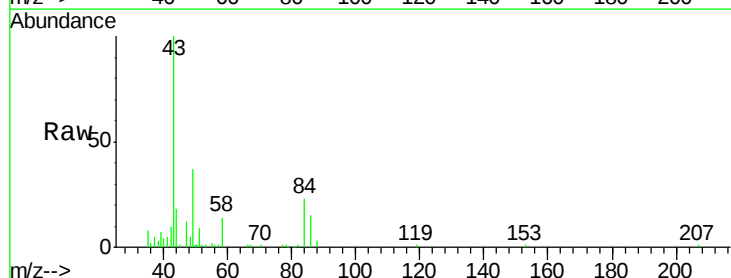
Acq: 11 Jan 2019 12:50

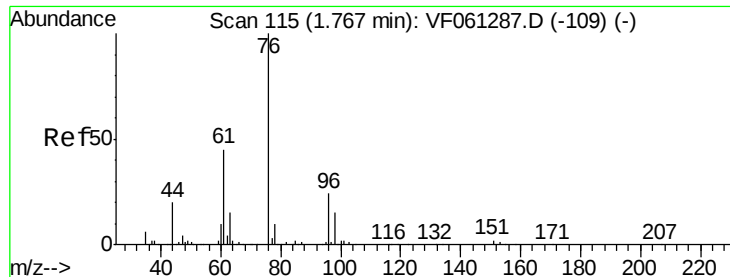
Tgt Ion: 43 Resp: 49268

Ion Ratio Lower Upper

43 100

58 14.2 16.6 25.0#





#17

Carbon Disulfide

Concen: 17.709 ug/l

RT: 1.79 min Scan# 118

Delta R.T. 0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

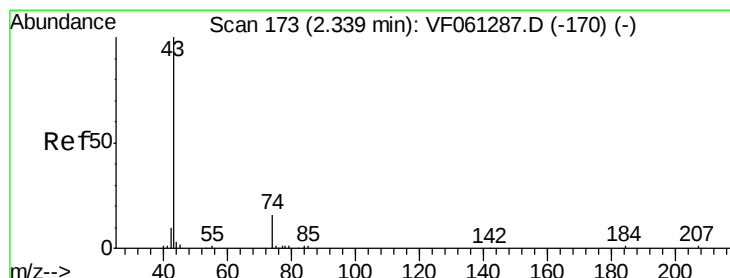
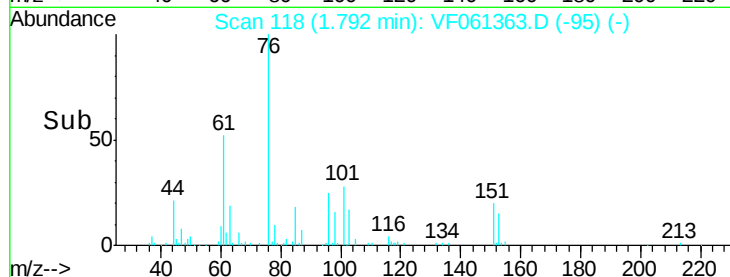
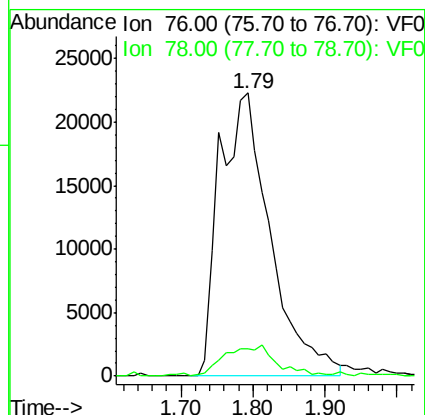
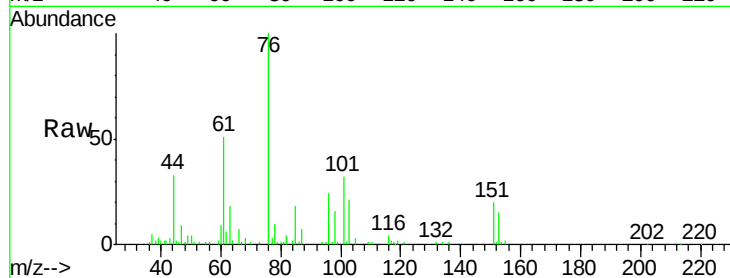
VF0111SBS01

Tot Ion: 76 Resp: 109145

Ion Ratio Lower Upper

76 100

78 9.8 7.8 11.6



#18

Methyl Acetate

Concen: 18.319 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF061363.D

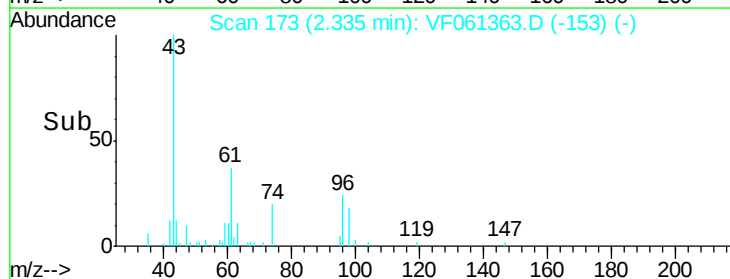
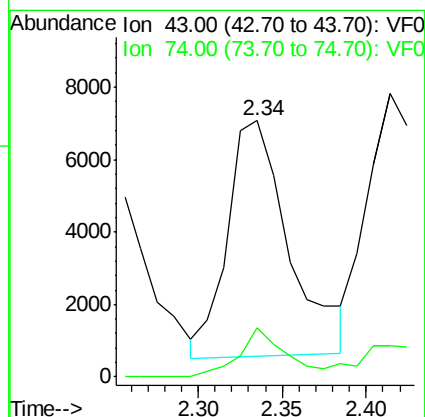
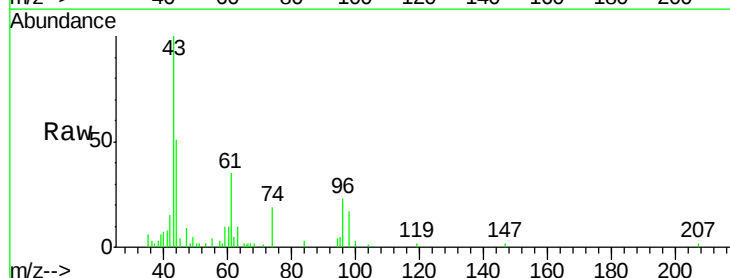
Acq: 11 Jan 2019 12:50

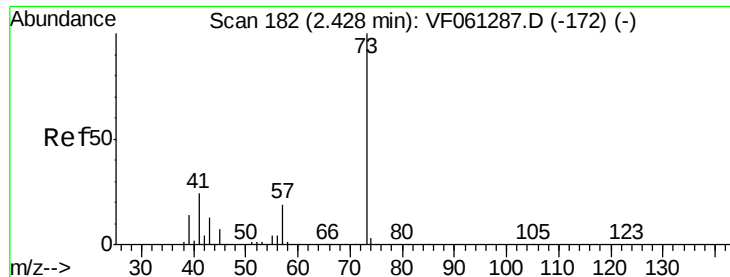
Tgt Ion: 43 Resp: 16571

Ion Ratio Lower Upper

43 100

74 19.1 11.6 17.4#

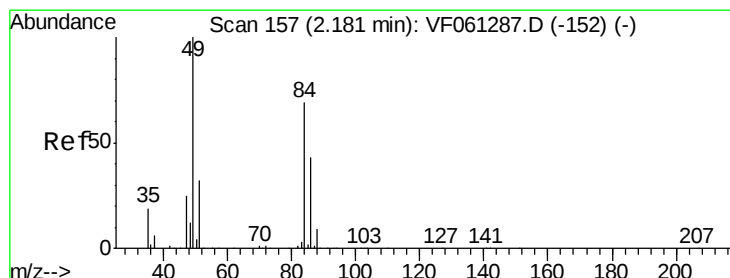
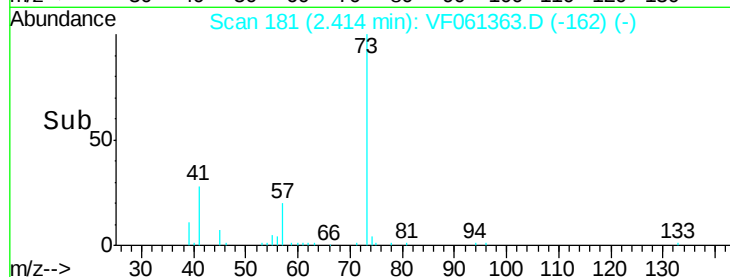
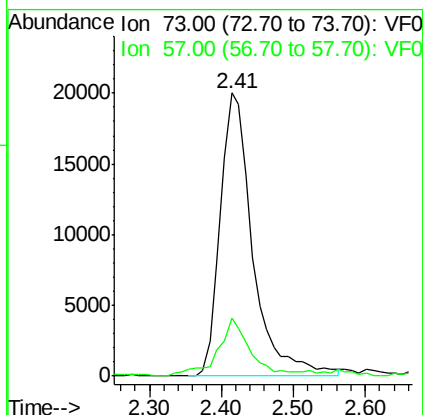
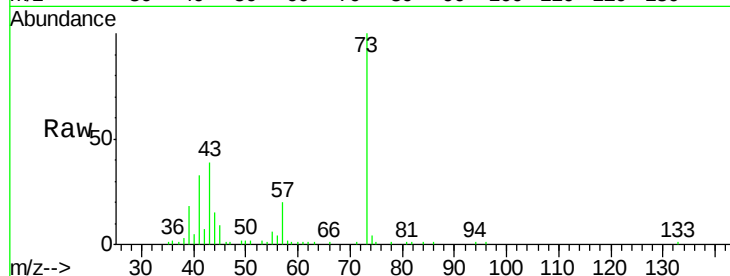




#19
Methyl tert-butyl Ether
Concen: 17.611 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

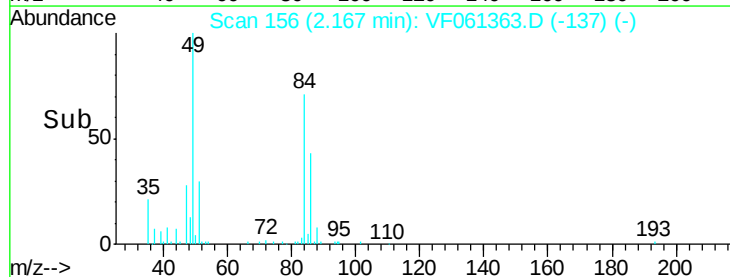
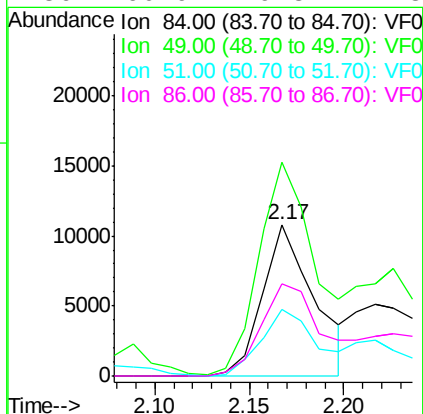
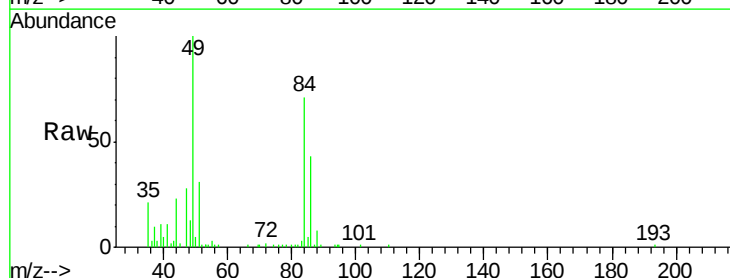
Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

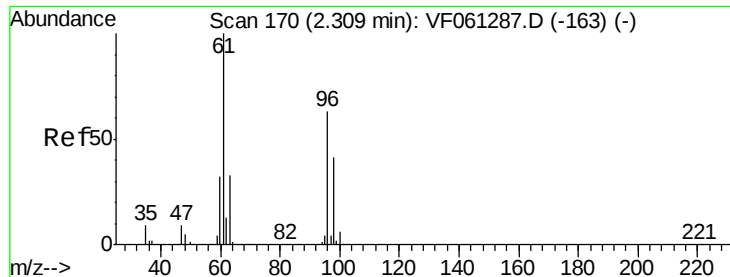
Tot Ion: 73 Resp: 62621
Ion Ratio Lower Upper
73 100
57 20.4 15.5 23.3



#20
Methylene Chloride
Concen: 10.546 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 84 Resp: 20514
Ion Ratio Lower Upper
84 100
49 141.2 116.6 175.0
51 44.1 37.7 56.5
86 60.9 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.264 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

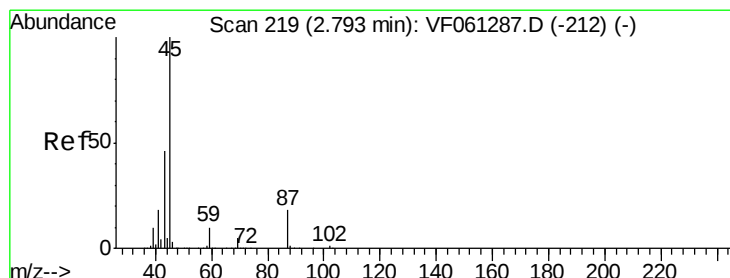
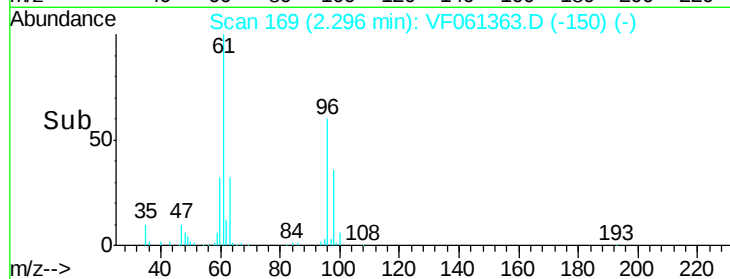
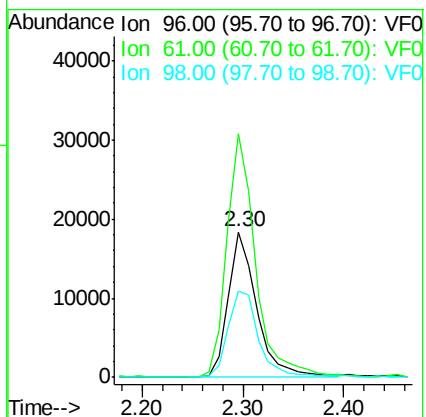
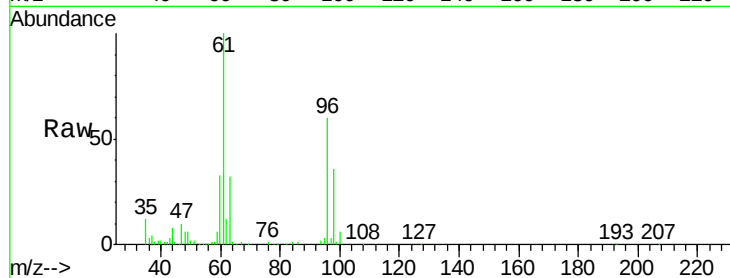
Tot Ion: 96 Resp: 36114

Ion Ratio Lower Upper

96 100

61 167.2 127.0 190.4

98 59.6 51.7 77.5



#22

Diisopropyl ether

Concen: 17.402 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.00 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion: 45 Resp: 114826

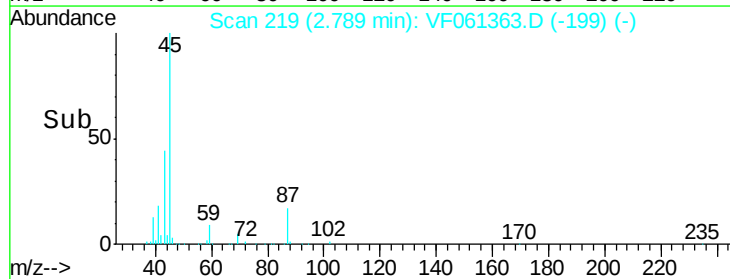
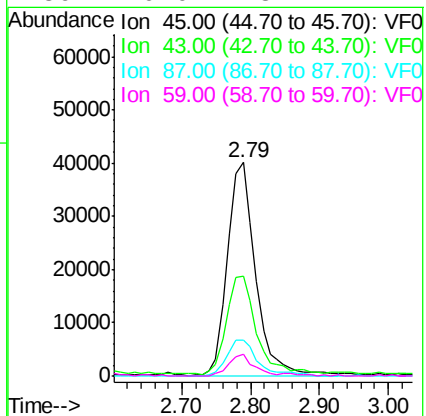
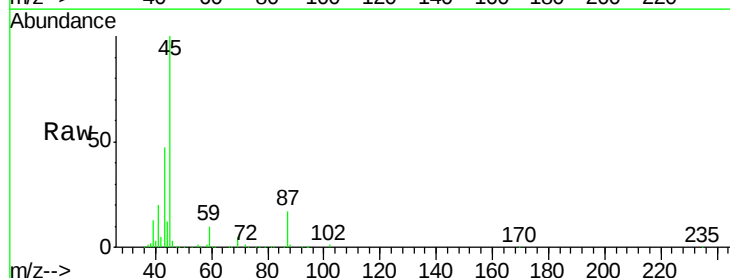
Ion Ratio Lower Upper

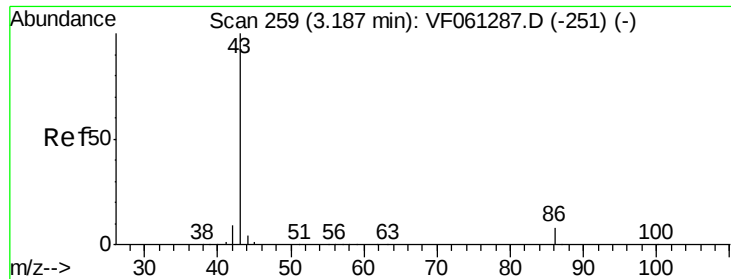
45 100

43 46.5 37.4 56.2

87 16.9 14.2 21.2

59 10.0 8.2 12.2





#23

Vinyl Acetate

Concen: 95.619 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

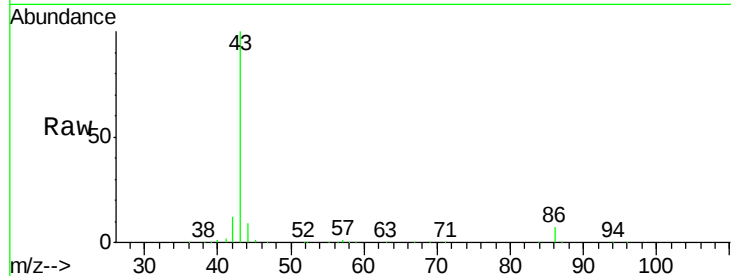
VF0111SBS01

Tot Ion: 43 Resp: 184519

Ion Ratio Lower Upper

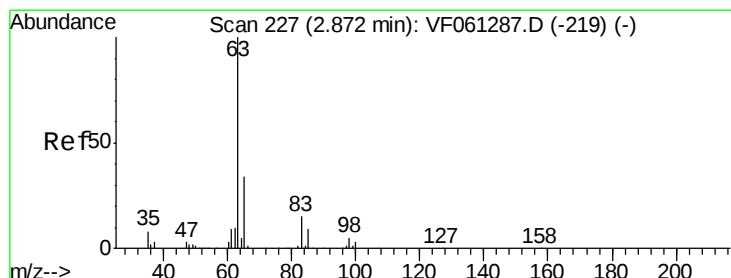
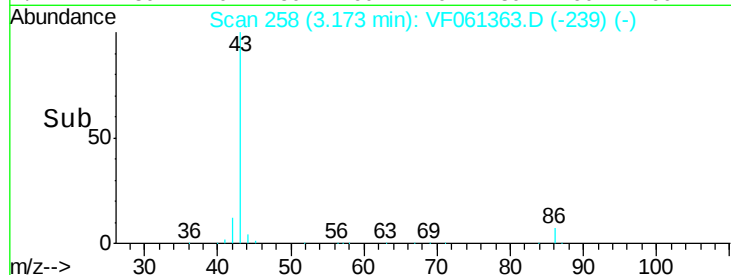
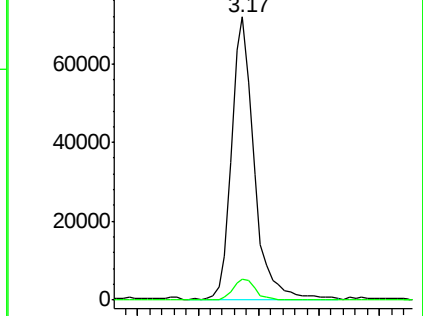
43 100

86 7.2 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 19.130 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

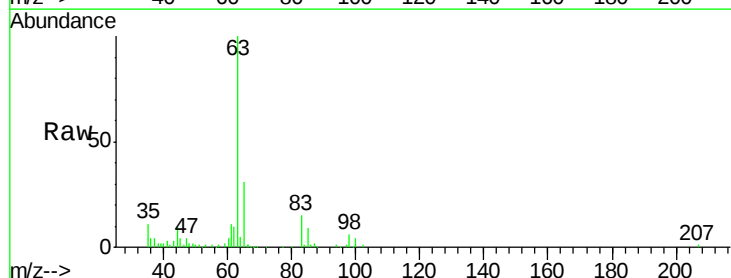
Tgt Ion: 63 Resp: 73019

Ion Ratio Lower Upper

63 100

98 6.0 2.5 7.6

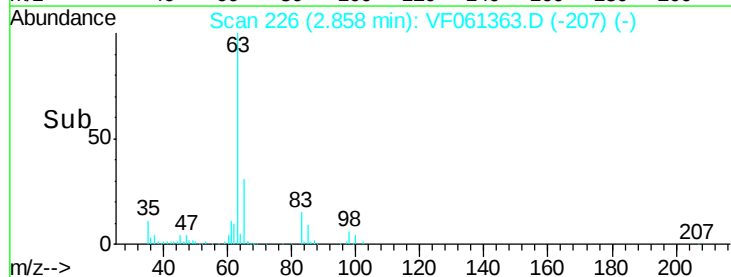
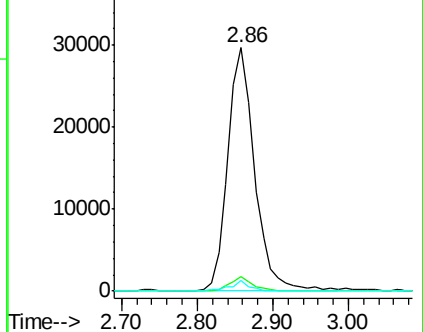
100 4.2 1.7 5.0

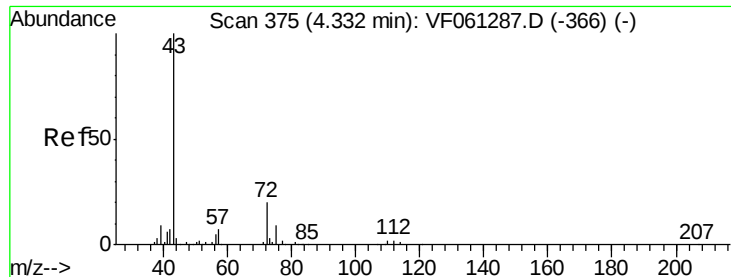


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 97.275 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

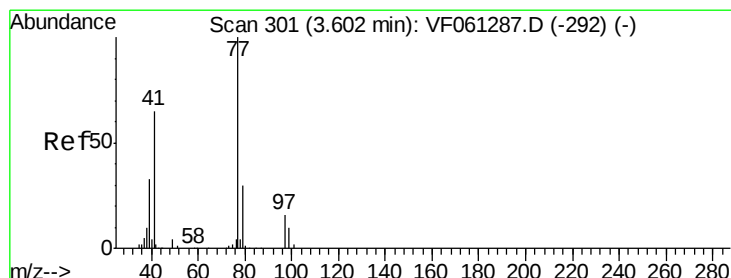
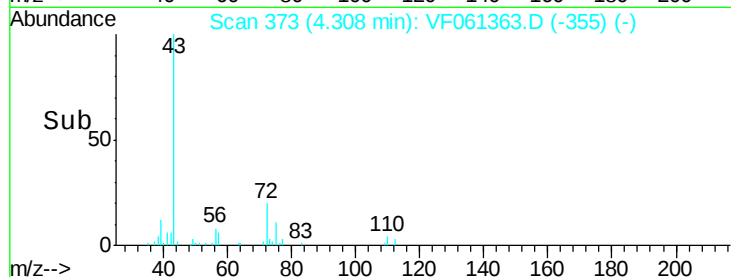
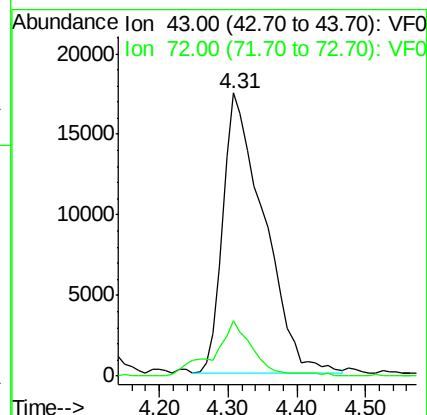
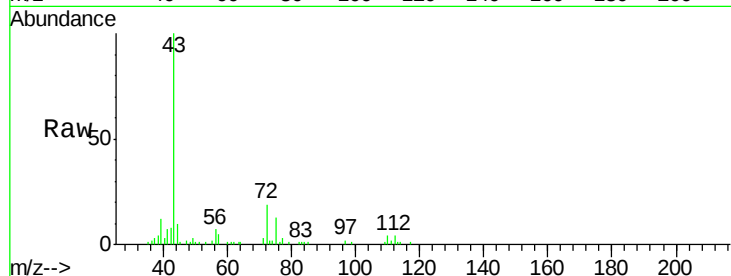
VF0111SBS01

Tot Ion: 43 Resp: 71984

Ion Ratio Lower Upper

43 100

72 19.4 16.5 24.7



#26

2,2-Dichloropropane

Concen: 17.629 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.01 min

Lab File: VF061363.D

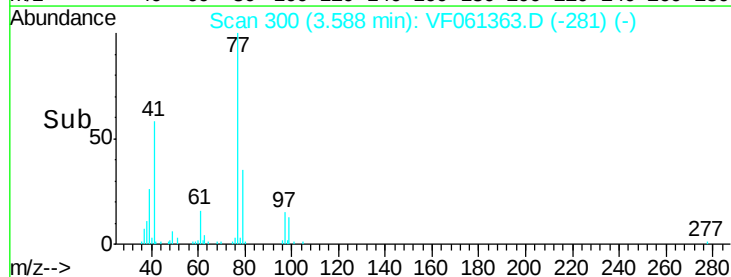
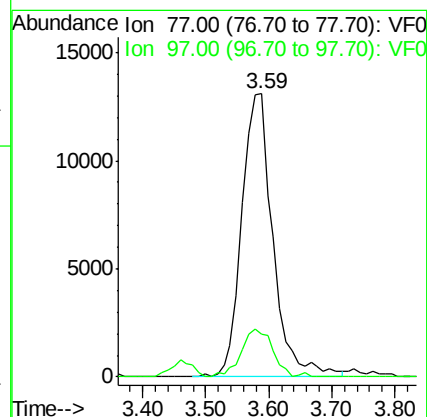
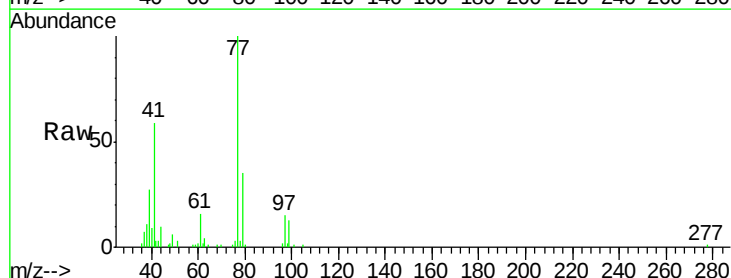
Acq: 11 Jan 2019 12:50

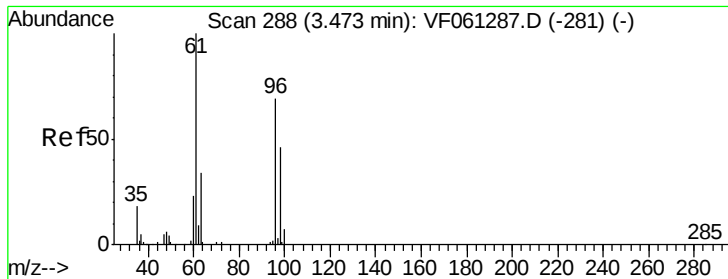
Tgt Ion: 77 Resp: 44966

Ion Ratio Lower Upper

77 100

97 15.1 8.6 25.9



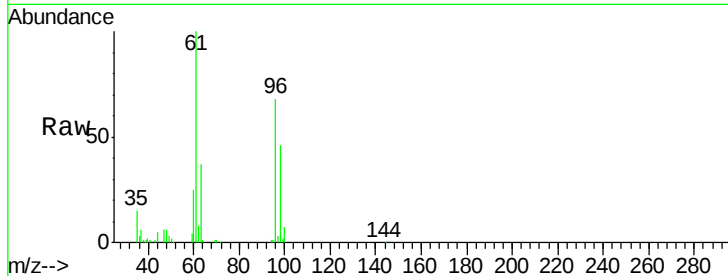


#27

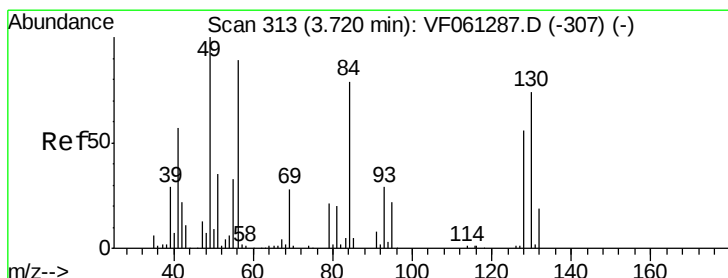
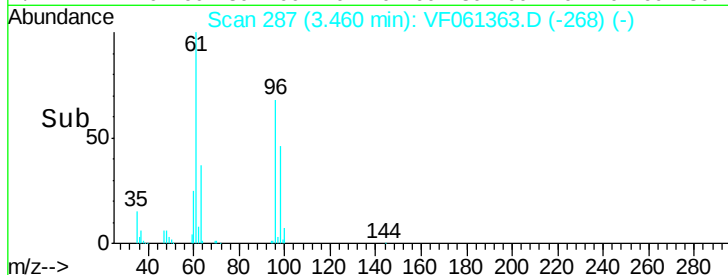
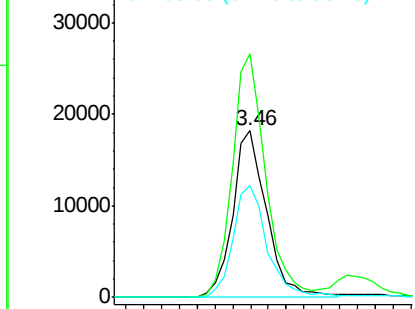
cis-1,2-Dichloroethene
Concen: 17.510 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	288.2
98	67.0	0.0	132.2



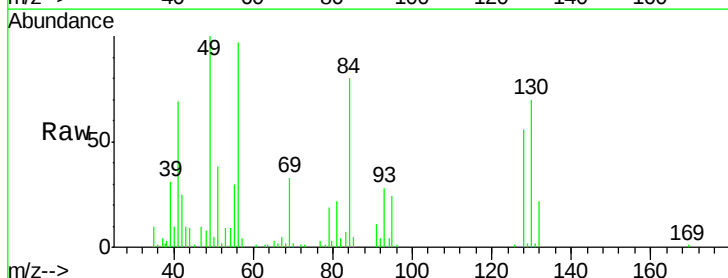
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



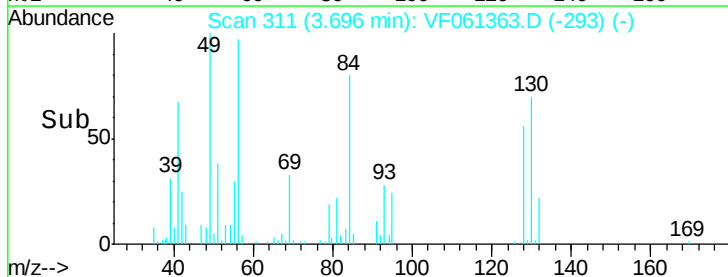
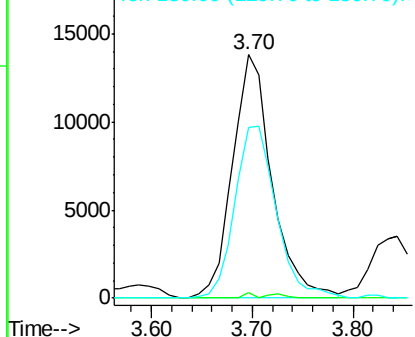
#28

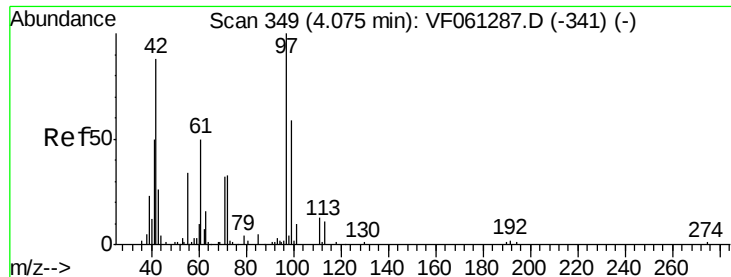
Bromochloromethane
Concen: 22.406 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	0.0#
130	70.1	58.6	88.0



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: 97.569 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

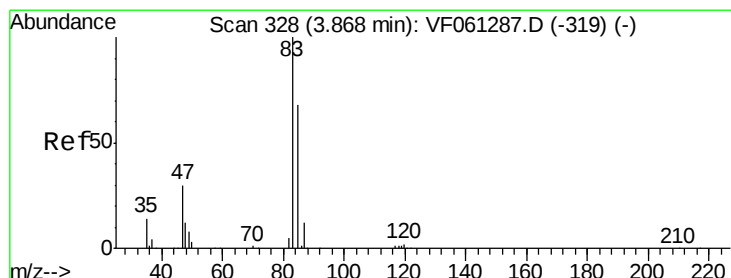
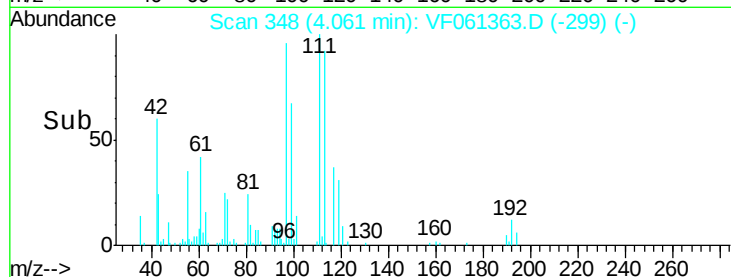
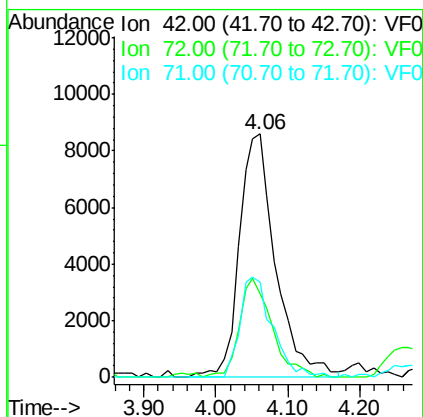
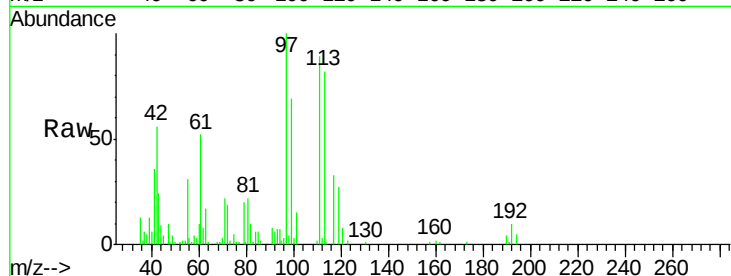
Tot Ion: 42 Resp: 30188

Ion Ratio Lower Upper

42 100

72 36.7 32.3 48.5

71 37.0 29.5 44.3



#30

Chloroform

Concen: 20.648 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VF061363.D

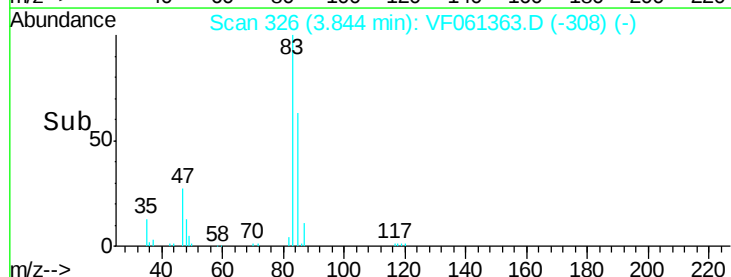
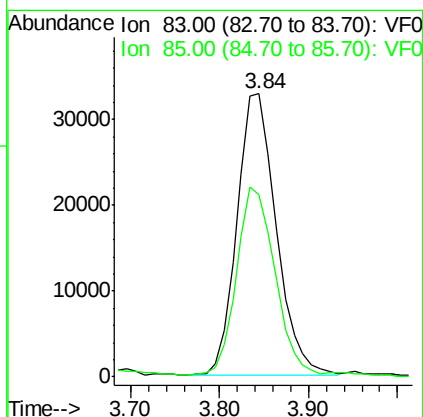
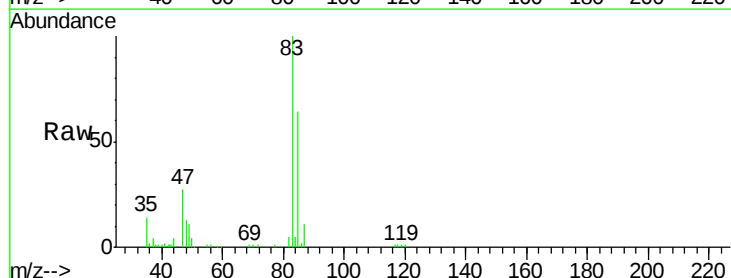
Acq: 11 Jan 2019 12:50

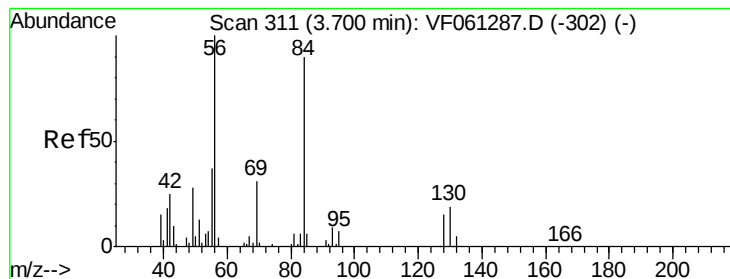
Tgt Ion: 83 Resp: 100049

Ion Ratio Lower Upper

83 100

85 64.4 54.4 81.6





#31

Cvclohexane

Concen: 20.529 ug/l

RT: 3.69 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

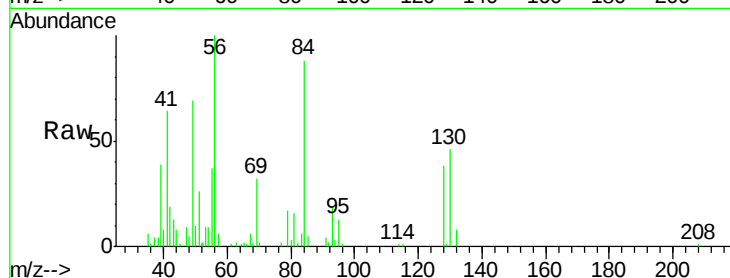
Tot Ion: 56 Resp: 82207

Ion Ratio Lower Upper

56 100

69 32.4 24.7 37.1

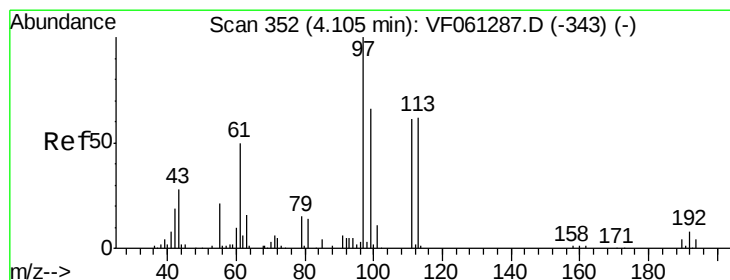
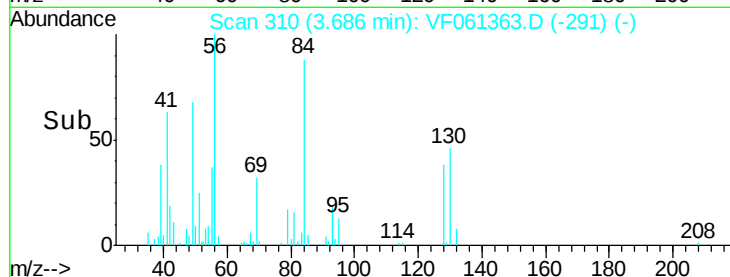
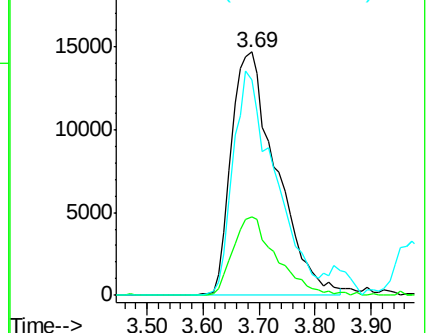
84 88.5 72.2 108.4



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: 19.407 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

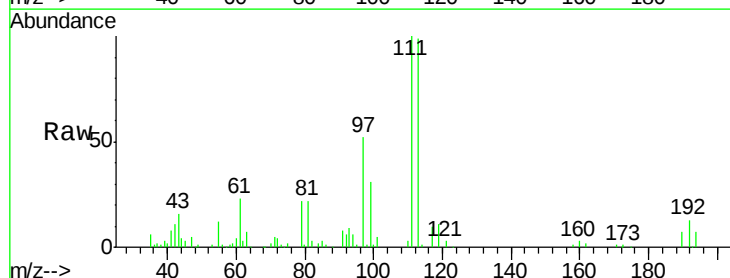
Tgt Ion: 97 Resp: 75957

Ion Ratio Lower Upper

97 100

99 59.9 52.7 79.1

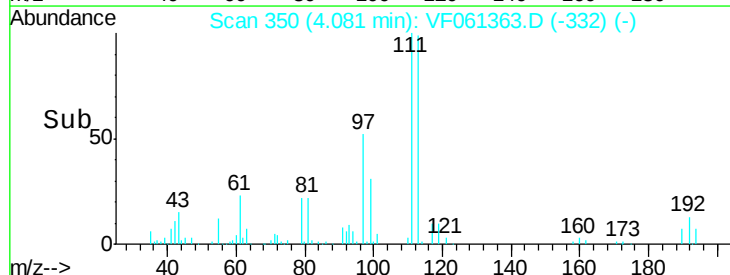
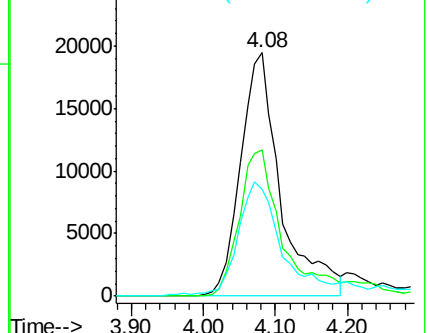
61 43.7 40.8 61.2

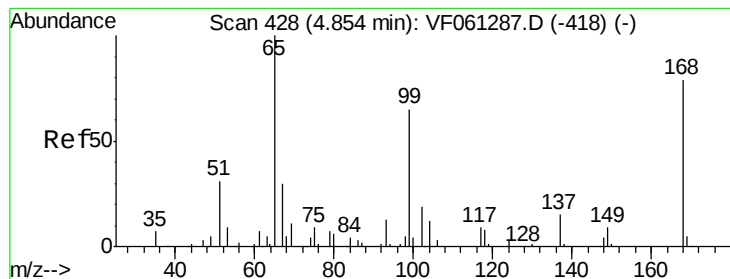


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 56.097 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

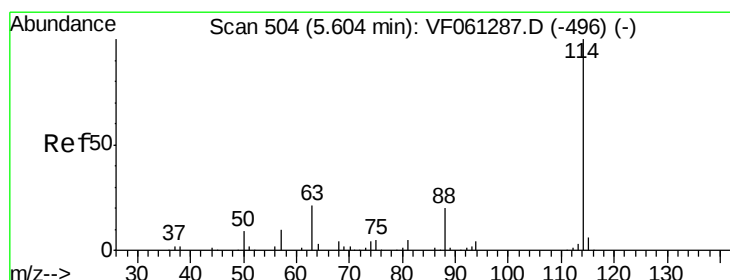
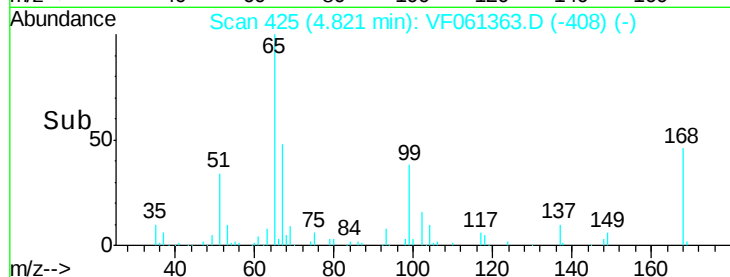
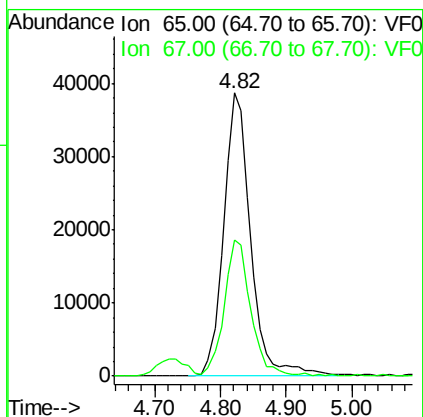
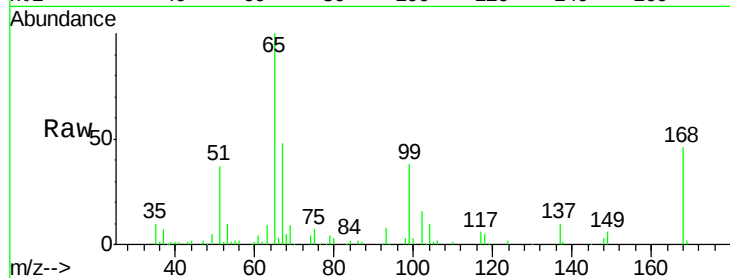
VF0111SBS01

Tot Ion: 65 Resp: 110873

Ion Ratio Lower Upper

65 100

67 48.3 0.0 98.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

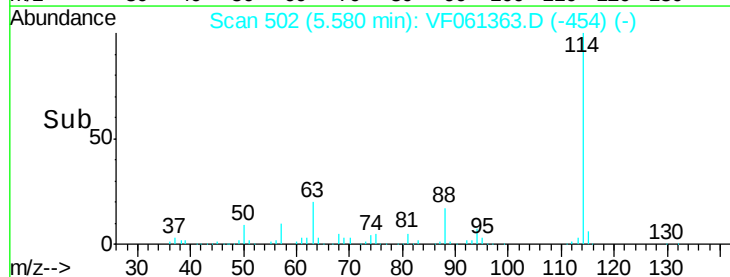
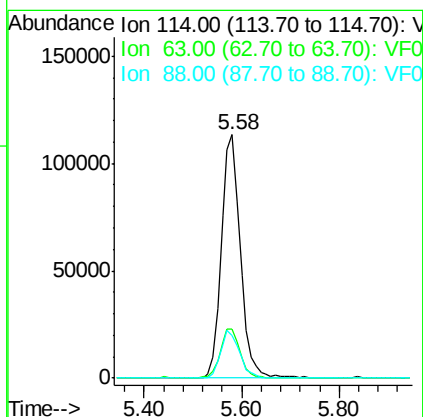
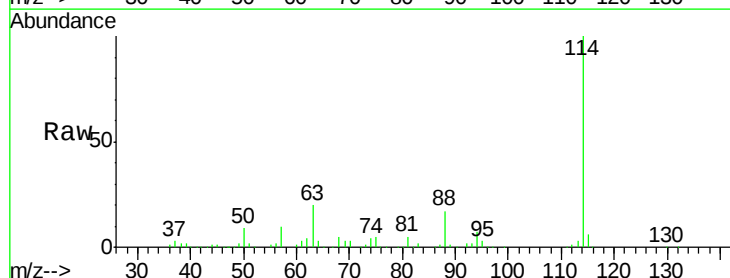
Tgt Ion: 114 Resp: 309091

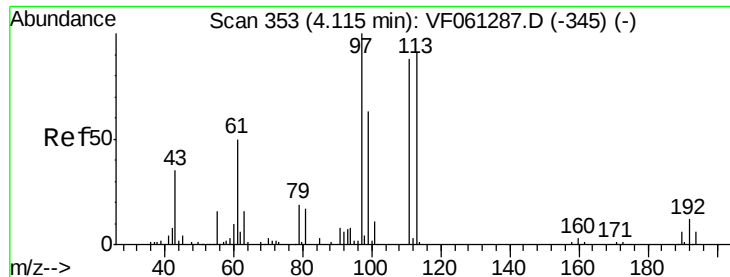
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.8

88 17.3 0.0 40.0

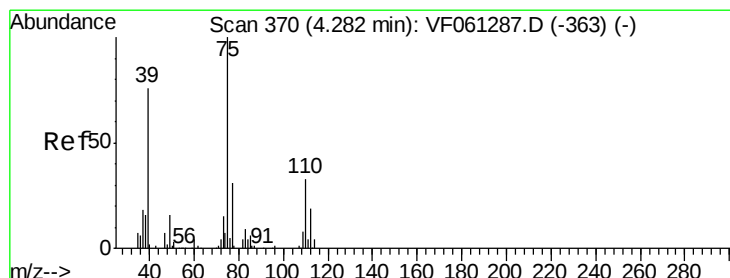
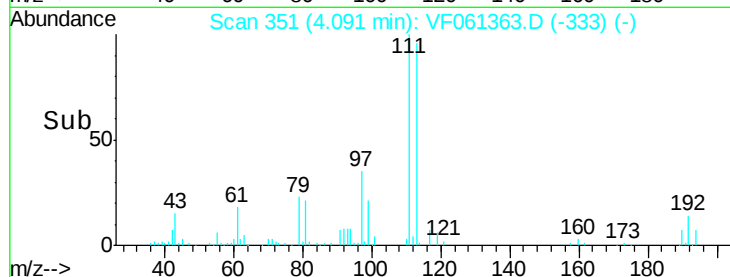
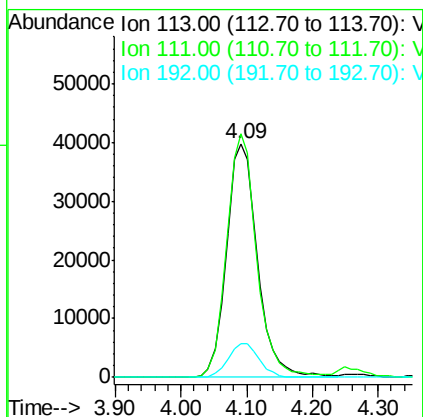
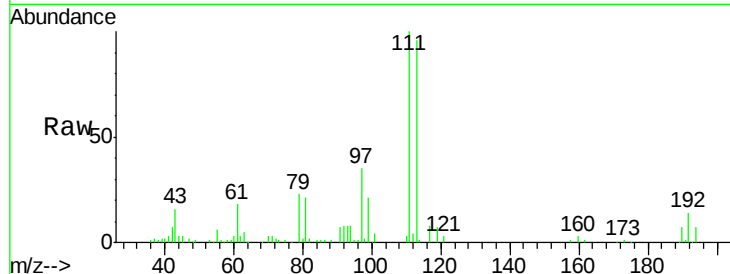




#35
 Dibromofluoromethane
 Concen: 55.522 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

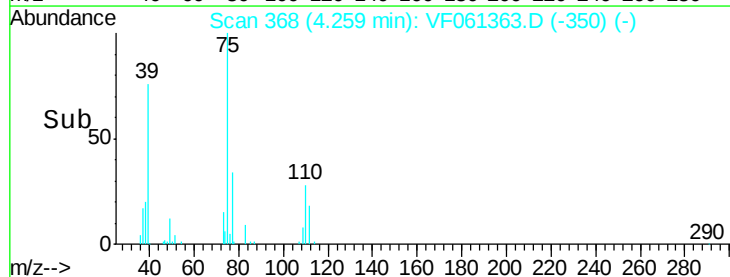
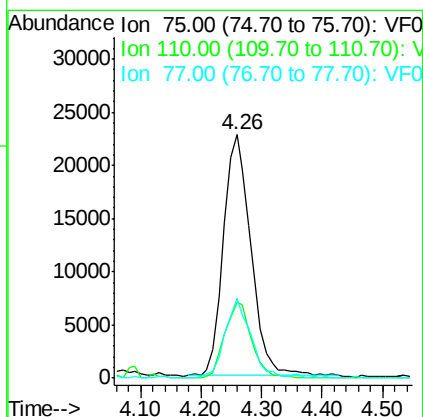
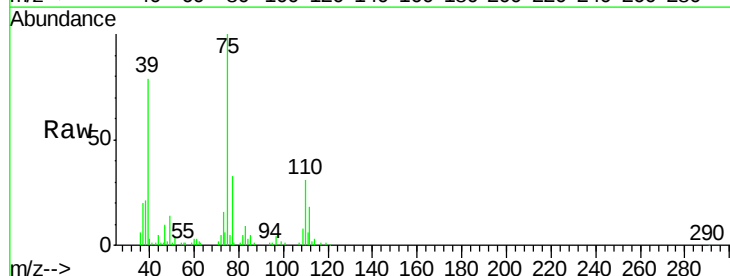
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

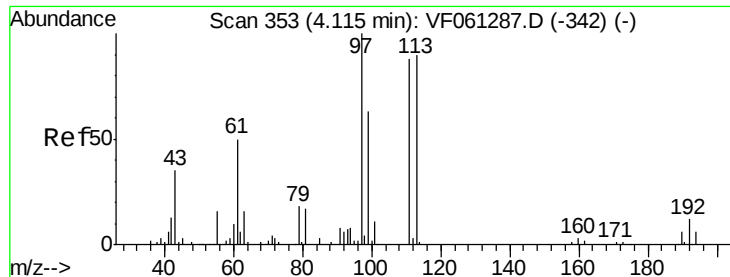
Tot Ion:113 Resp: 131313
 Ion Ratio Lower Upper
 113 100
 111 104.1 78.0 117.0
 192 14.4 10.6 16.0



#36
 1,1-Dichloropropene
 Concen: 19.855 ug/l
 RT: 4.26 min Scan# 368
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion: 75 Resp: 71664
 Ion Ratio Lower Upper
 75 100
 110 31.4 16.6 49.8
 77 33.0 25.1 37.7





#37

Ethyl Acetate

Concen: 19.269 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

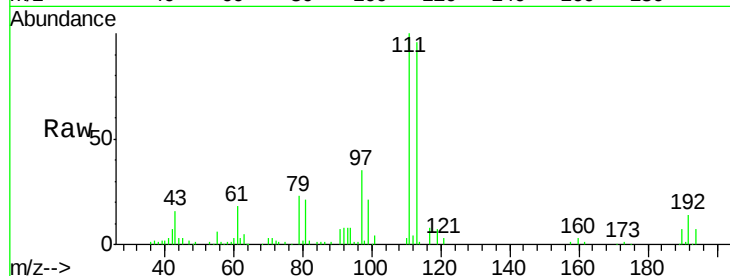
Tot Ion: 43 Resp: 25328

Ion Ratio Lower Upper

43 100

61 114.7 113.3 169.9

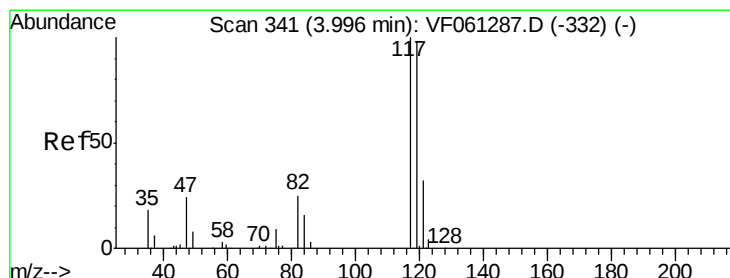
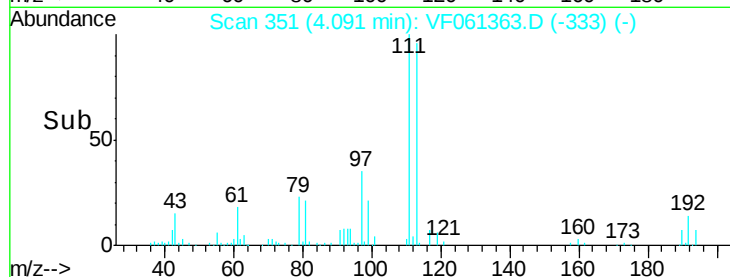
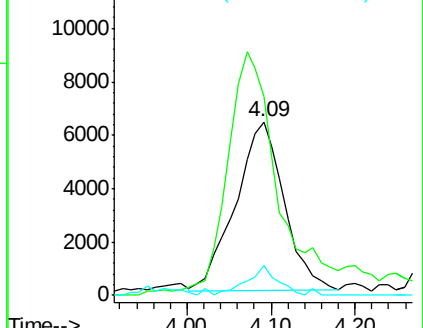
70 16.9 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 19.606 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

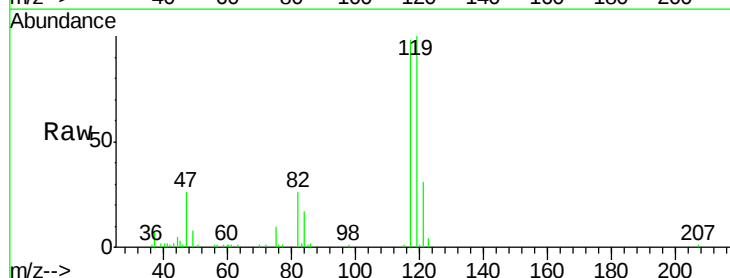
Tgt Ion: 117 Resp: 67024

Ion Ratio Lower Upper

117 100

119 102.2 78.5 117.7

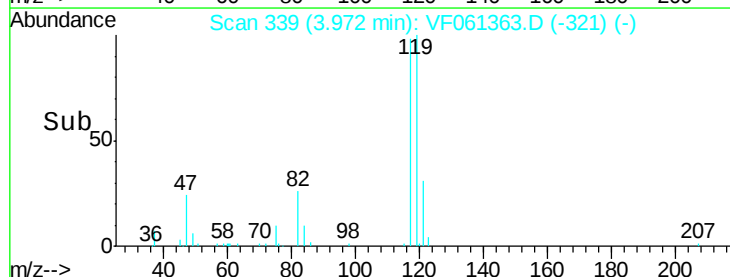
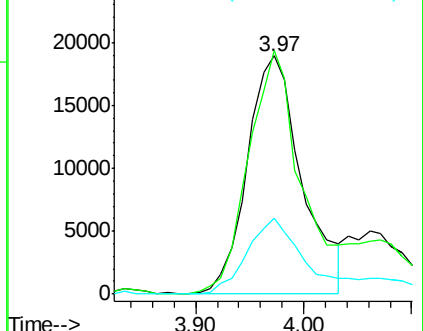
121 32.0 25.3 37.9

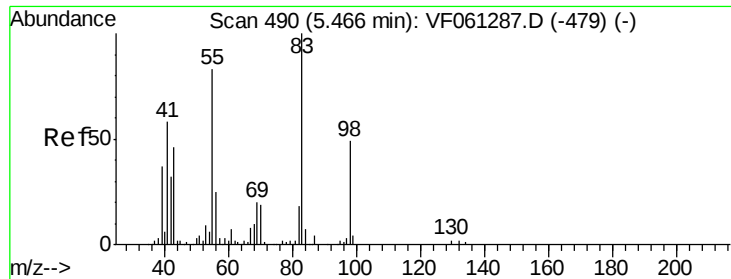


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

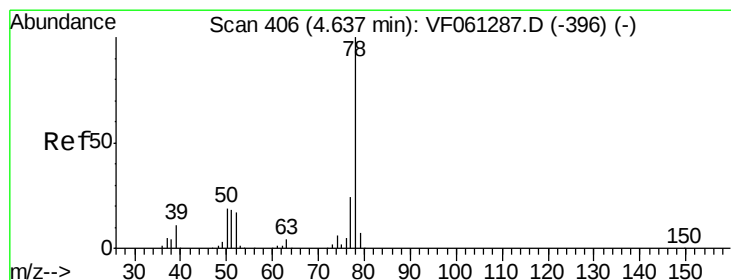
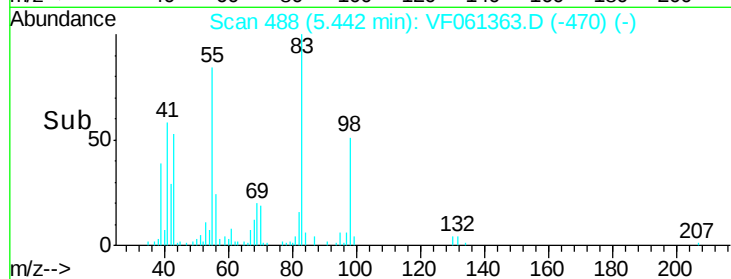
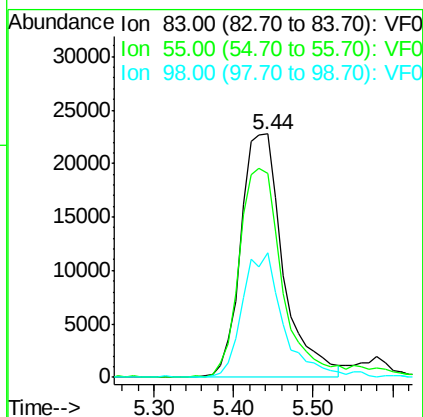
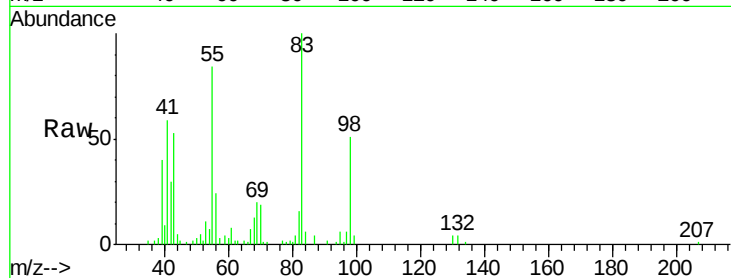




#39
Methvlcvclohexane
Concen: 18.516 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

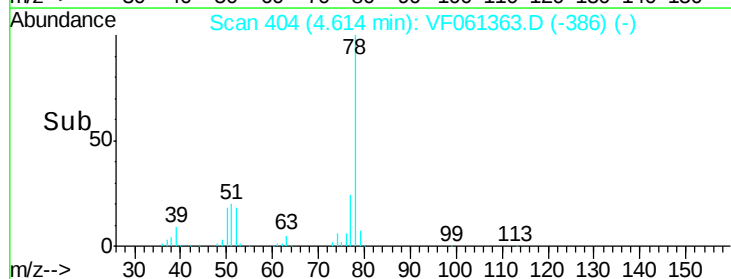
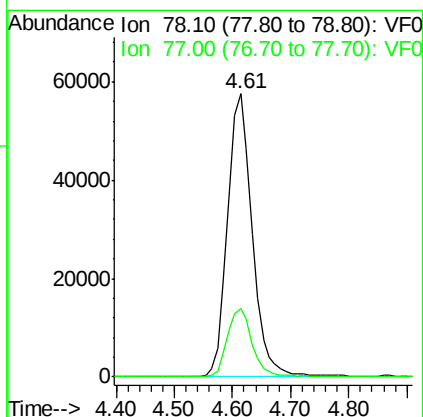
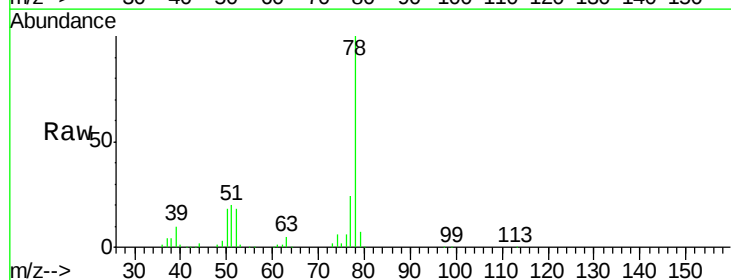
Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

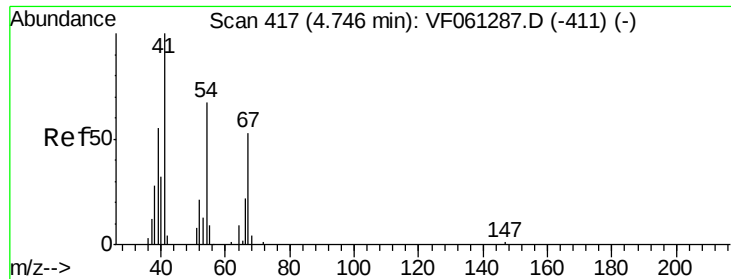
Tot Ion: 83 Resp: 83625
Ion Ratio Lower Upper
83 100
55 83.7 66.4 99.6
98 51.3 39.1 58.7



#40
Benzene
Concen: 20.246 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 78 Resp: 170609
Ion Ratio Lower Upper
78 100
77 24.3 19.1 28.7

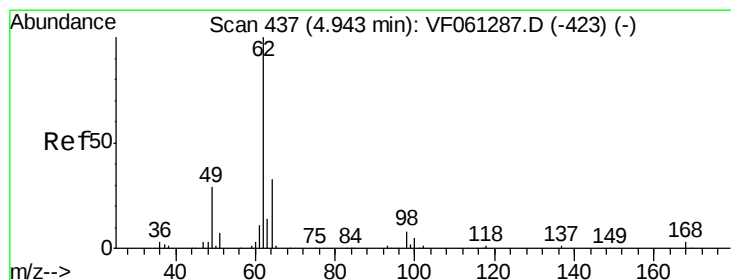
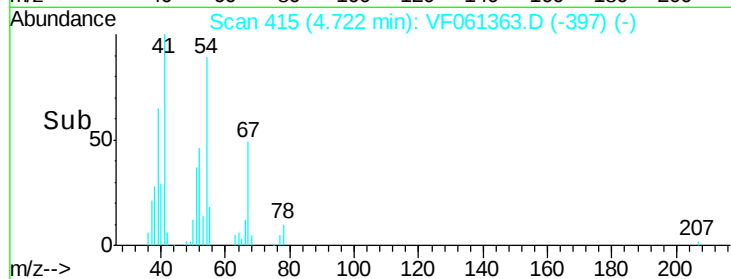
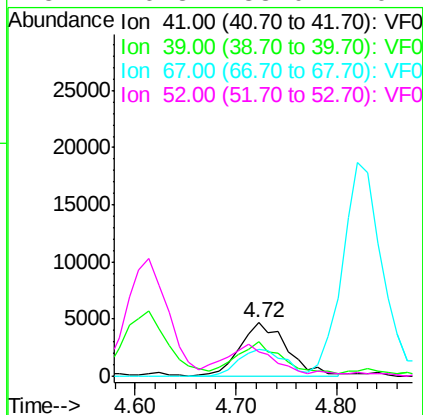
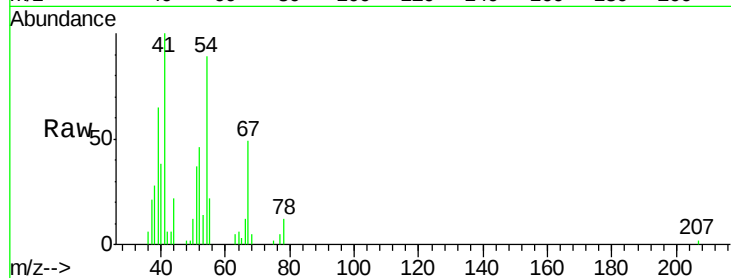




#41
Methacrylonitrile
Concen: 20.762 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

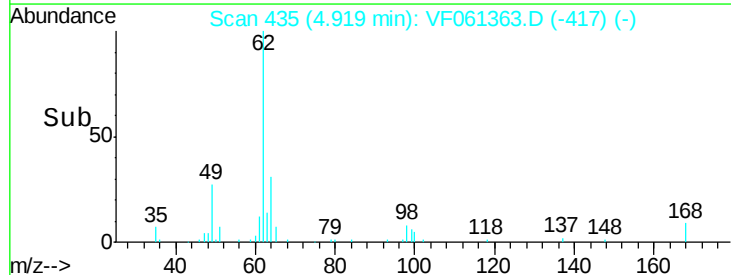
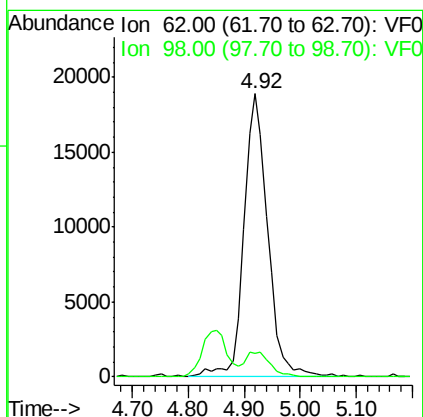
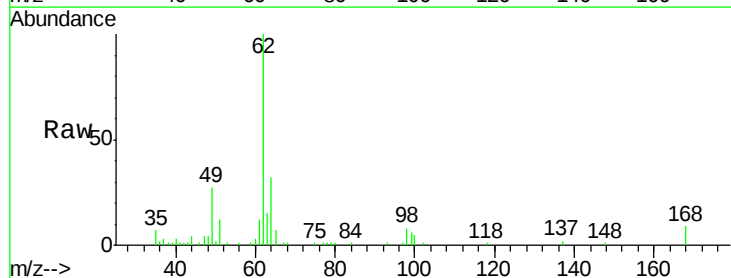
Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

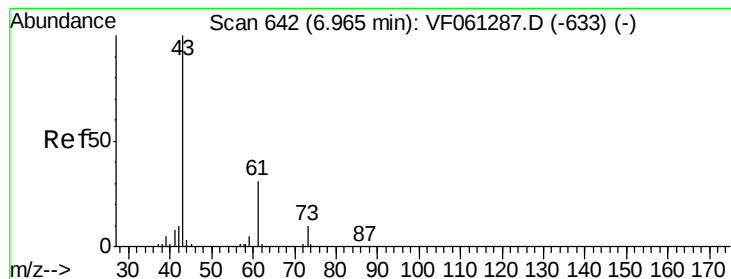
Tot Ion:	41	Resp:	15240
Ion	Ratio	Lower	Upper
41	100		
39	64.9	52.7	79.1
67	49.2	41.4	62.2
52	46.3	33.0	49.4



#42
1,2-Dichloroethane
Concen: 21.249 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion:	62	Resp:	55748
Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	16.8





#43

Isopropyl Acetate

Concen: 19.954 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

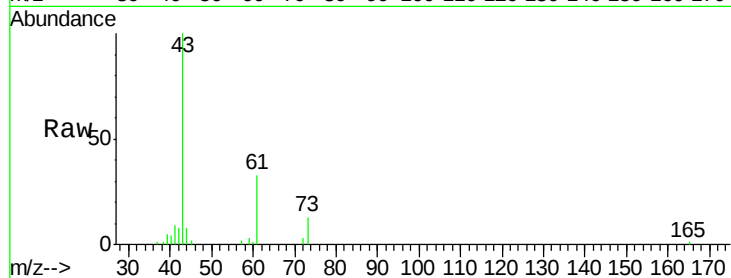
Tot Ion: 43 Resp: 34627

Ion Ratio Lower Upper

43 100

61 32.7 24.3 36.5

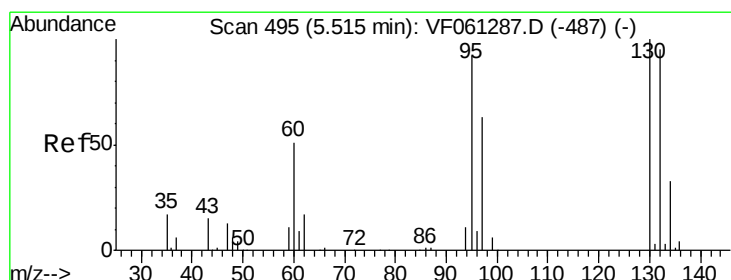
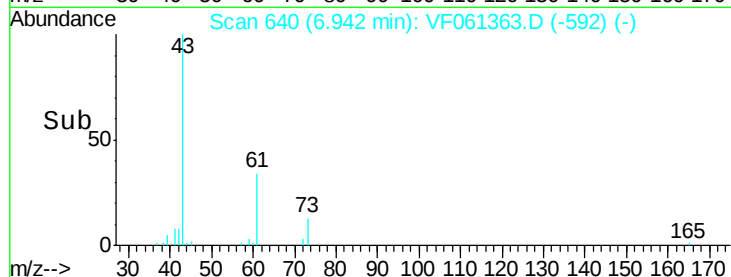
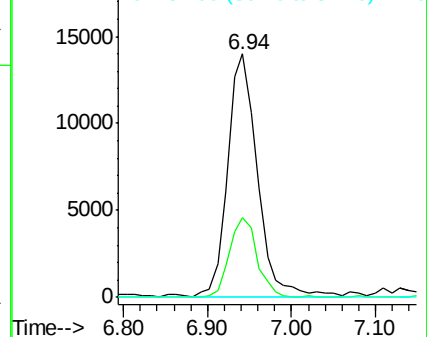
87 0.0 0.2 0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 21.636 ug/l

RT: 5.48 min Scan# 492

Delta R.T. -0.03 min

Lab File: VF061363.D

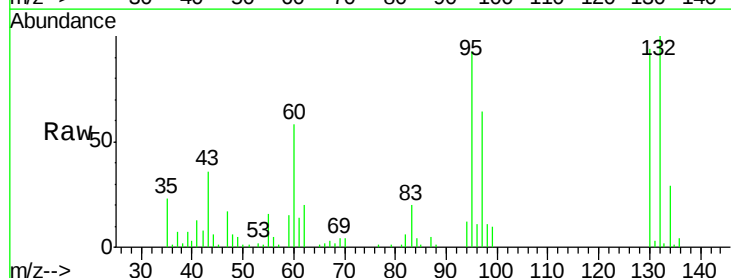
Acq: 11 Jan 2019 12:50

Tgt Ion: 130 Resp: 53357

Ion Ratio Lower Upper

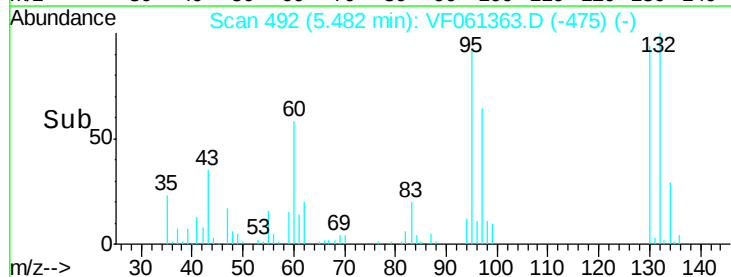
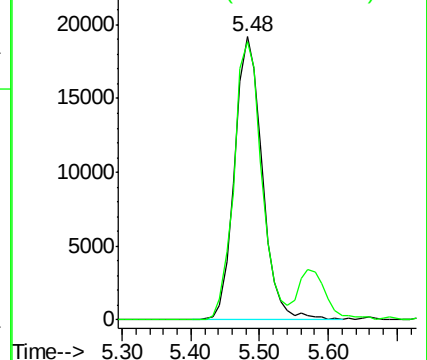
130 100

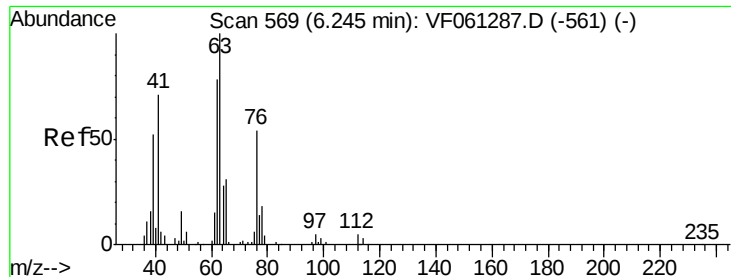
95 98.4 0.0 184.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 19.168 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

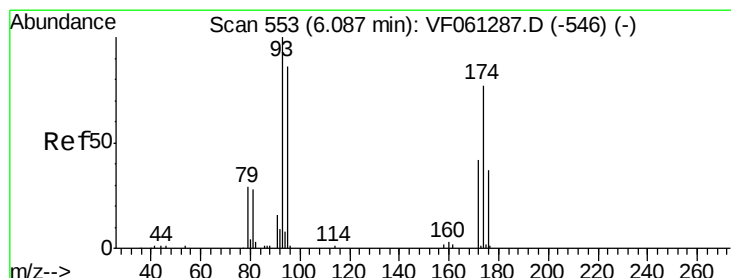
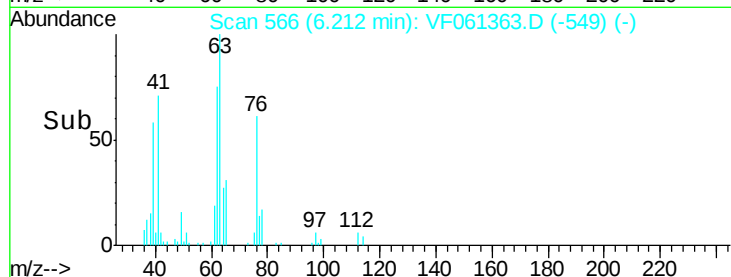
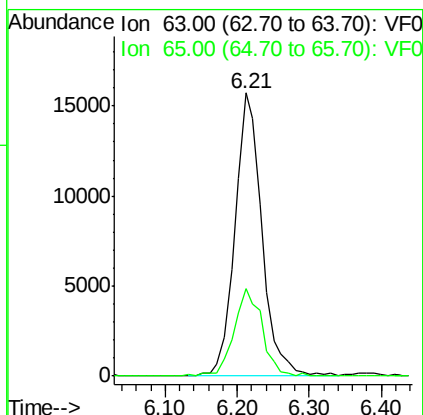
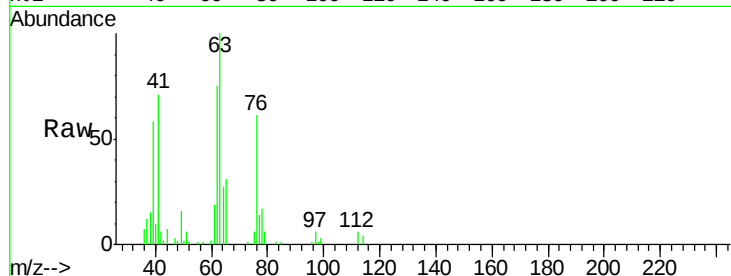
VF0111SBS01

Tot Ion: 63 Resp: 41075

Ion Ratio Lower Upper

63 100

65 31.0 25.1 37.7



#46

Dibromomethane

Concen: 19.741 ug/l

RT: 6.06 min Scan# 551

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

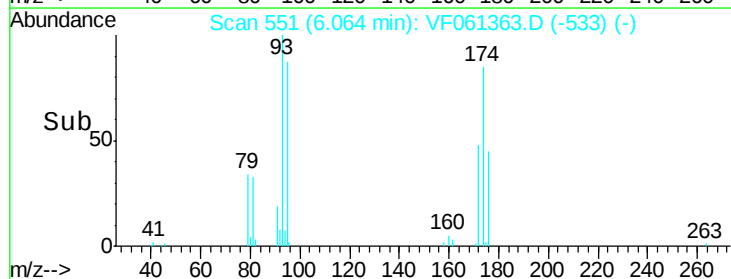
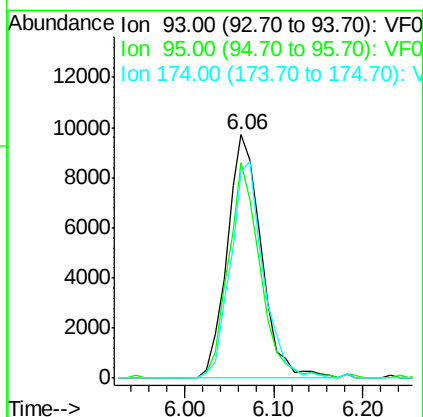
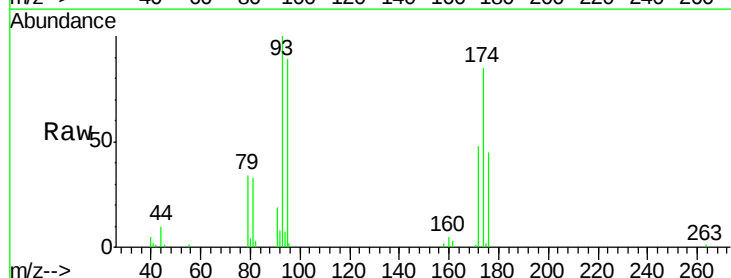
Tgt Ion: 93 Resp: 25974

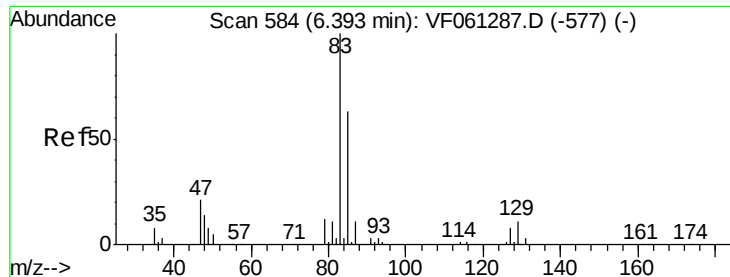
Ion Ratio Lower Upper

93 100

95 90.5 68.8 103.2

174 84.9 62.9 94.3





#47

Bromodichloromethane

Concen: 22.224 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

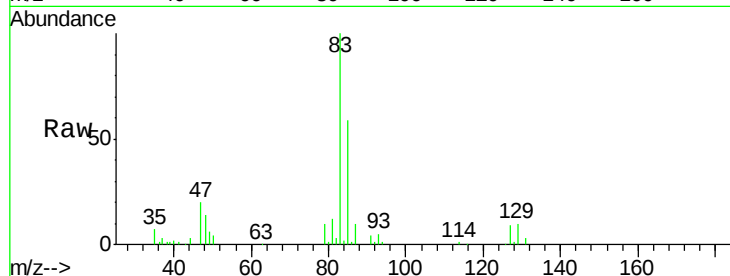
Tot Ion: 83 Resp: 72722

Ion Ratio Lower Upper

83 100

85 58.9 50.4 75.6

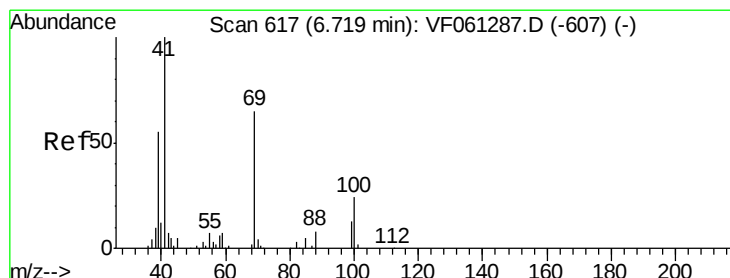
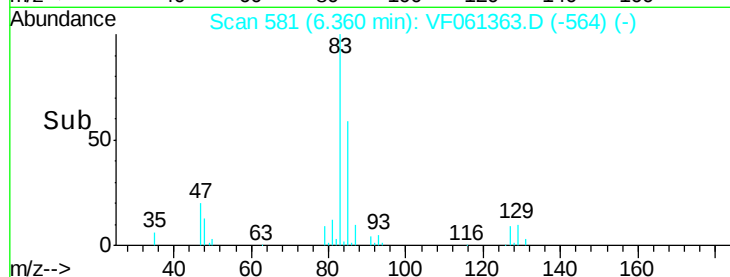
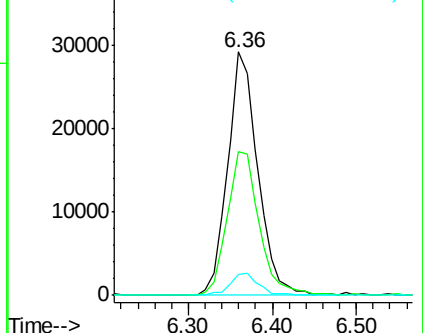
127 8.8 6.4 9.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 18.441 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

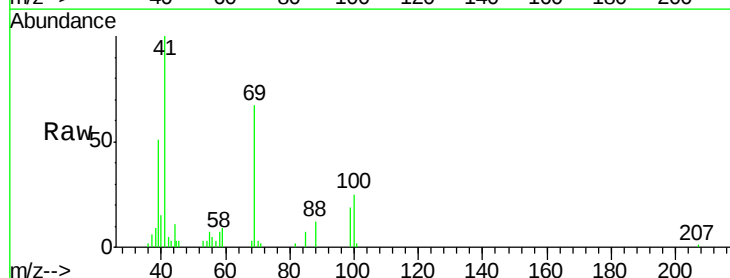
Tgt Ion: 41 Resp: 20772

Ion Ratio Lower Upper

41 100

69 66.7 51.5 77.3

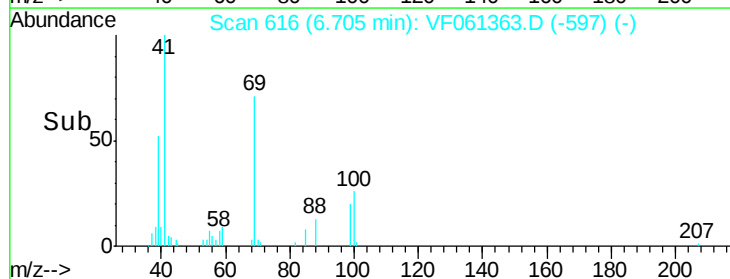
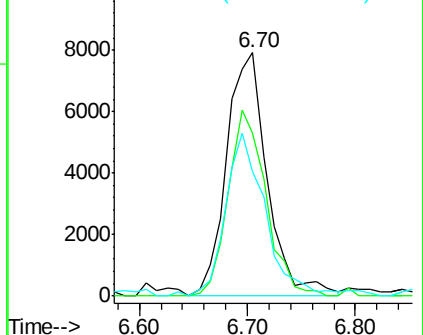
39 51.0 44.1 66.1

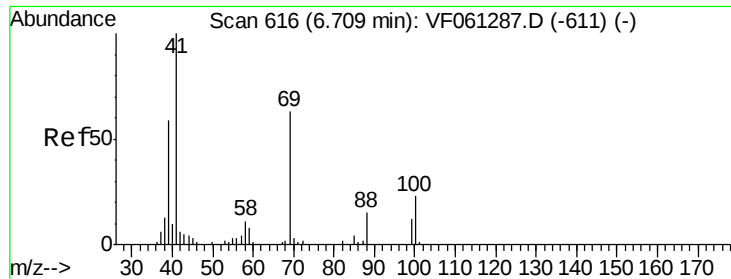


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 390.999 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

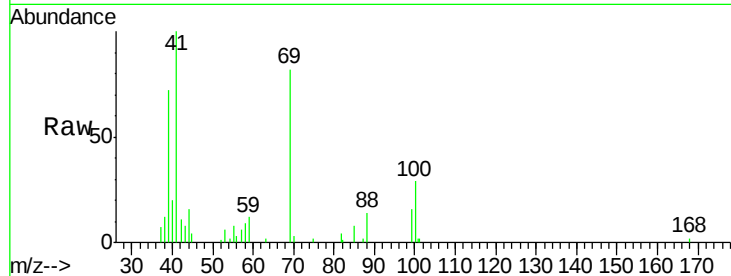
Tot Ion: 88 Resp: 2779

Ion Ratio Lower Upper

88 100

43 55.3 38.5 57.7

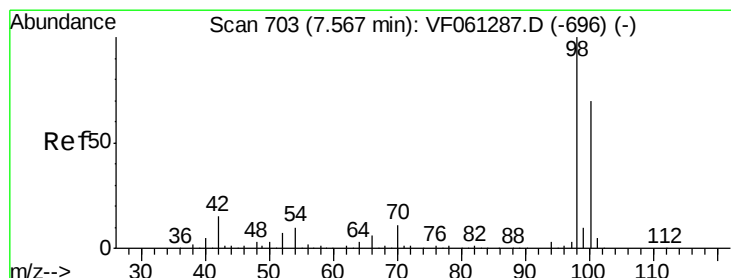
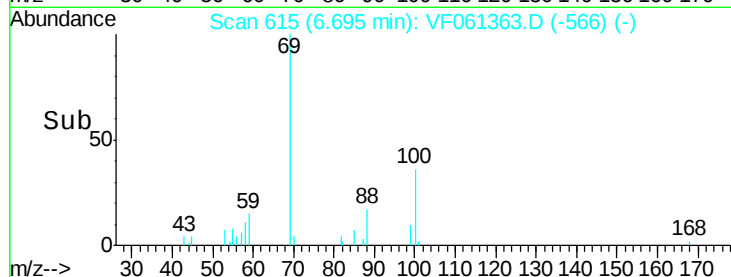
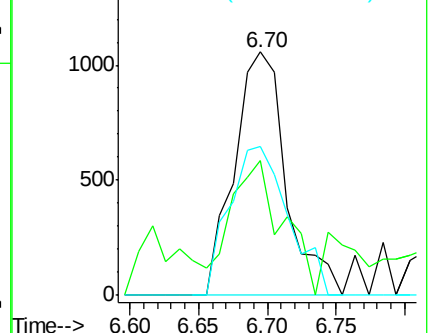
58 61.2 57.0 85.4



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 52.346 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061363.D

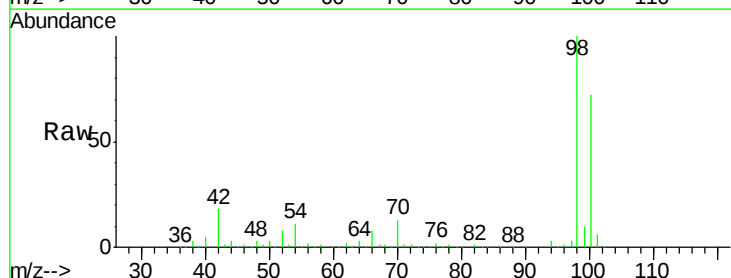
Acq: 11 Jan 2019 12:50

Tgt Ion: 98 Resp: 366360

Ion Ratio Lower Upper

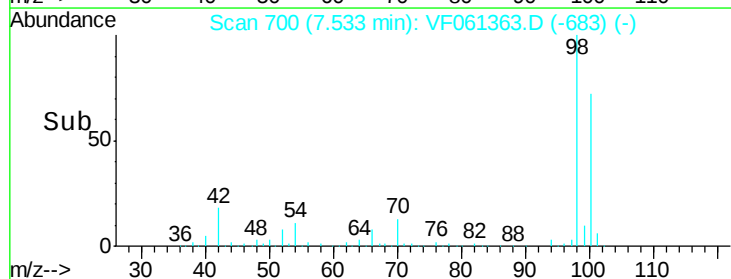
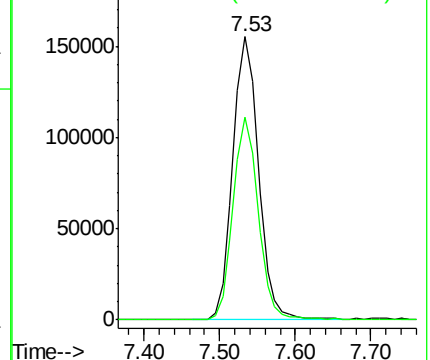
98 100

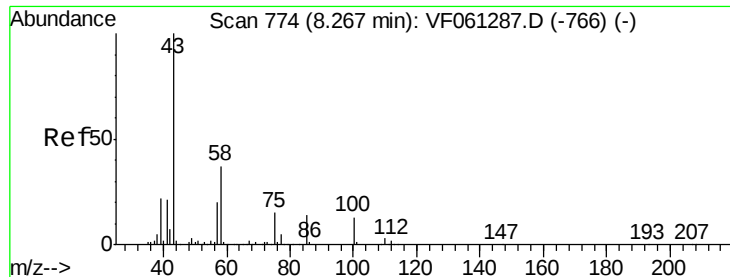
100 71.8 55.6 83.4



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: 97.637 ug/l

RT: 8.23 min Scan# 771

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

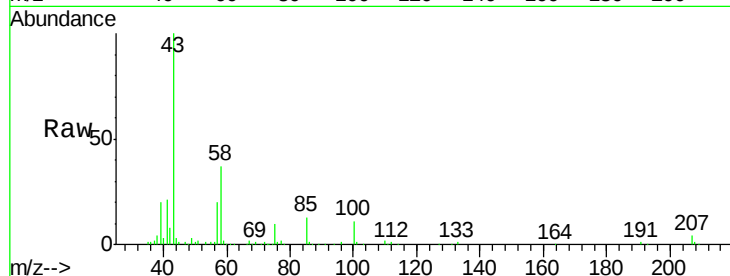
VF0111SBS01

Tot Ion: 43 Resp: 127888

Ion Ratio Lower Upper

43 100

58 36.7 29.6 44.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

60000

50000

40000

30000

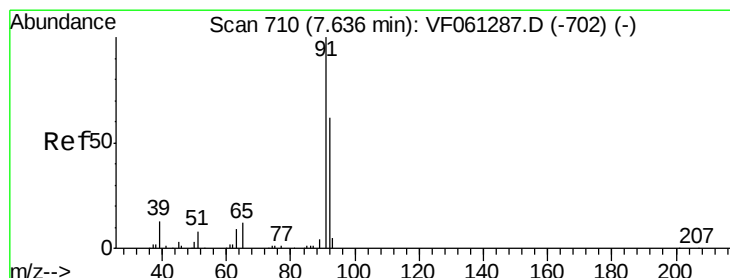
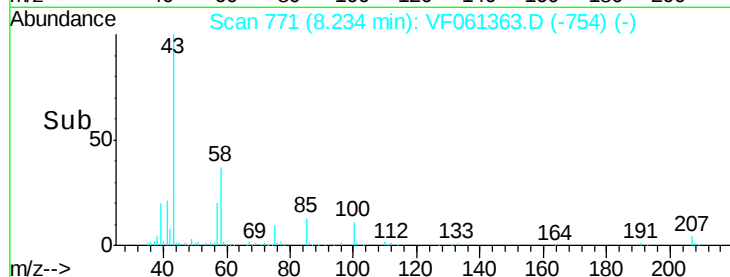
20000

10000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 20.241 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061363.D

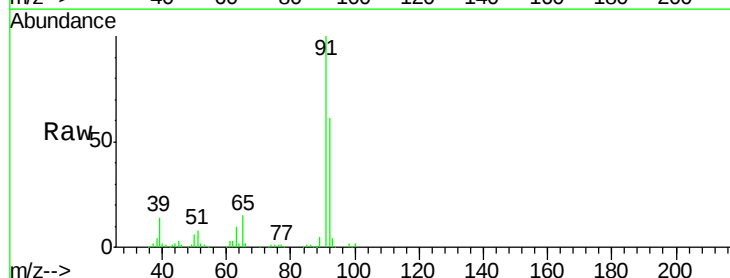
Acq: 11 Jan 2019 12:50

Tgt Ion: 92 Resp: 109632

Ion Ratio Lower Upper

92 100

91 164.3 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

80000

60000

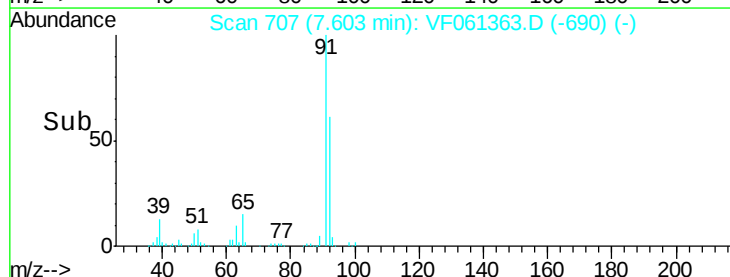
40000

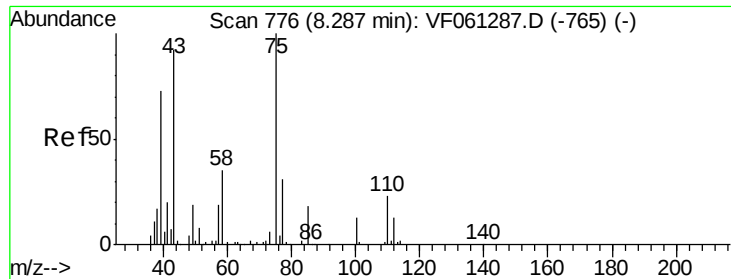
20000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 21.939 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

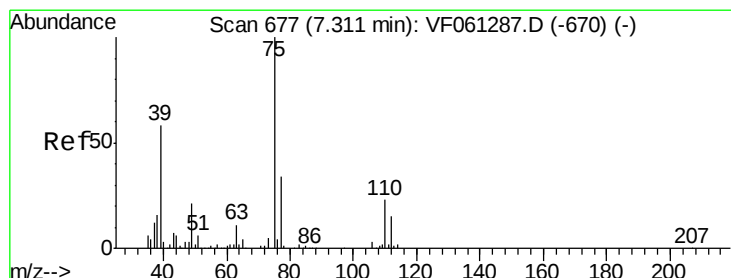
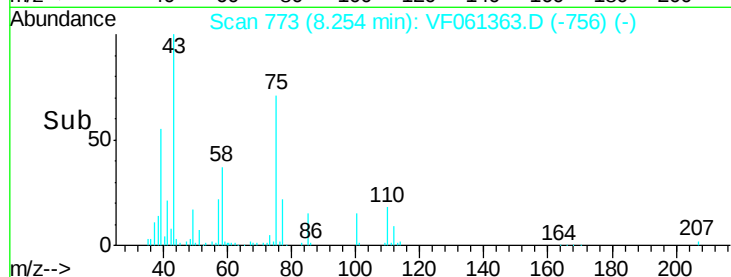
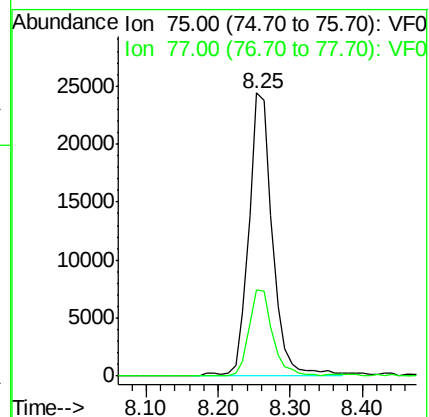
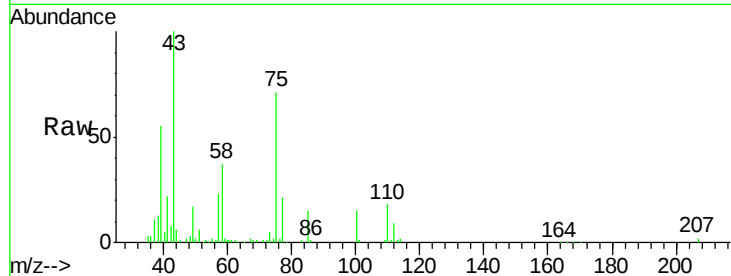
VF0111SBS01

Tot Ion: 75 Resp: 56378

Ion Ratio Lower Upper

75 100

77 30.3 24.7 37.1



#54

cis-1,3-Dichloropropene

Concen: 21.369 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

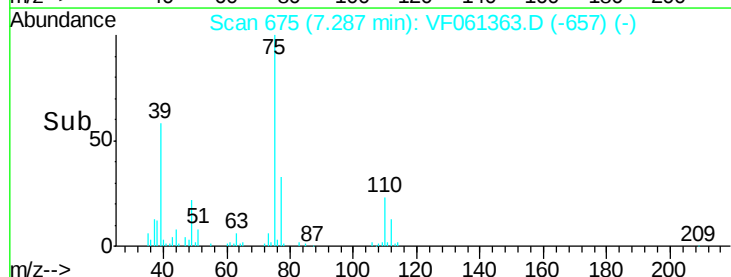
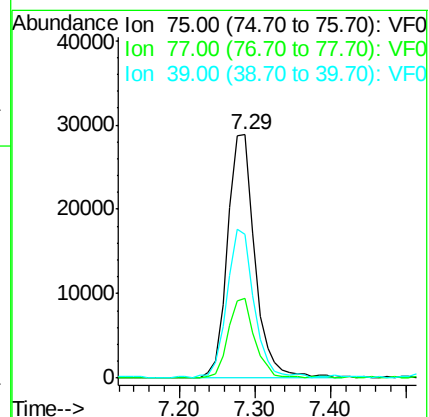
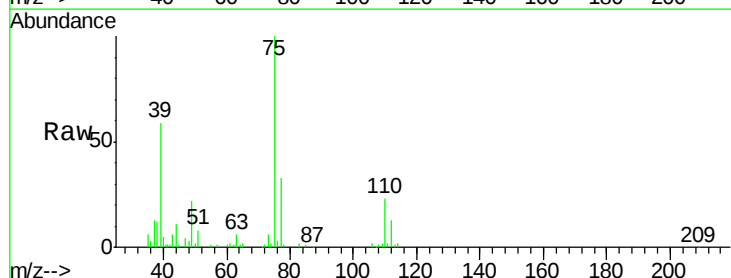
Tgt Ion: 75 Resp: 72811

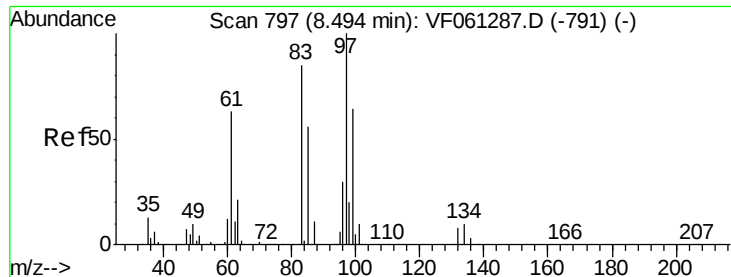
Ion Ratio Lower Upper

75 100

77 32.5 27.3 40.9

39 59.3 46.3 69.5





#55

1,1,2-Trichloroethane

Concen: 20.285 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 97 Resp: 30745

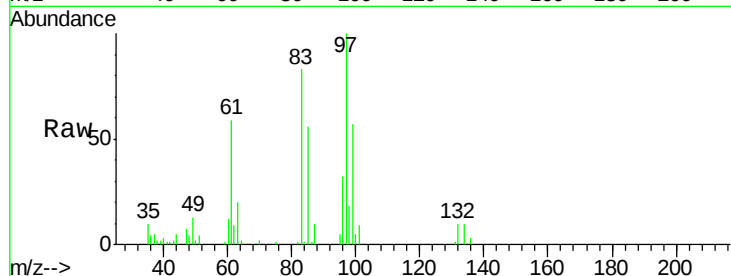
Ion	Ratio	Lower	Upper
97	100		
83	83.2	67.8	101.6
85	55.7	45.1	67.7
99	57.2	51.0	76.6

97 100

83 83.2 67.8 101.6

85 55.7 45.1 67.7

99 57.2 51.0 76.6

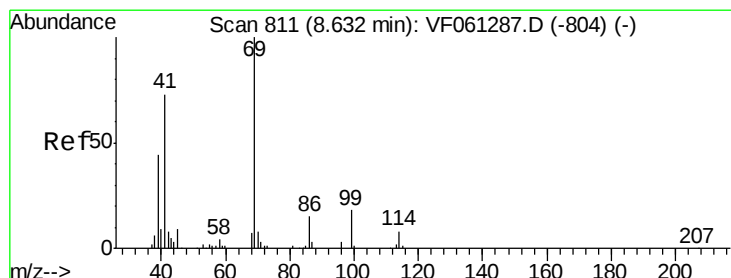
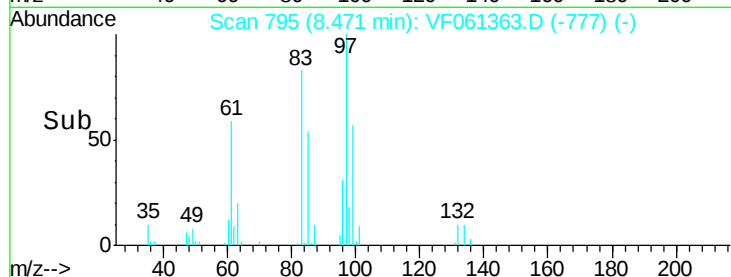
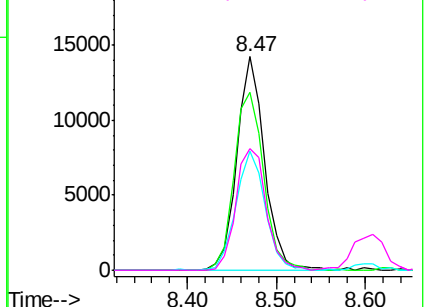


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 19.352 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

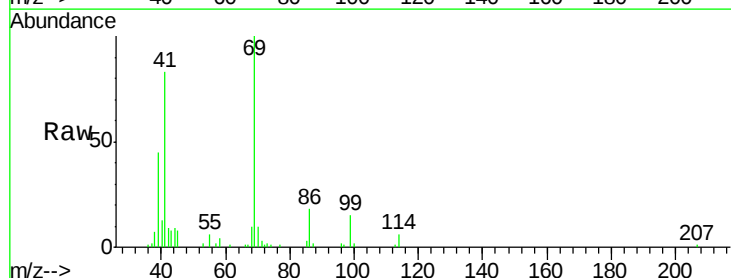
Tgt Ion: 69 Resp: 32781

Ion	Ratio	Lower	Upper
69	100		
41	82.7	59.0	88.4
39	45.5	35.3	52.9

69 100

41 82.7 59.0 88.4

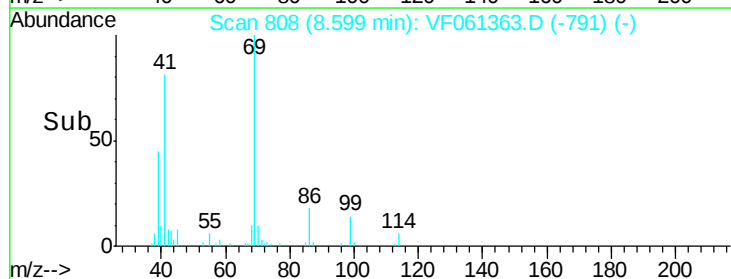
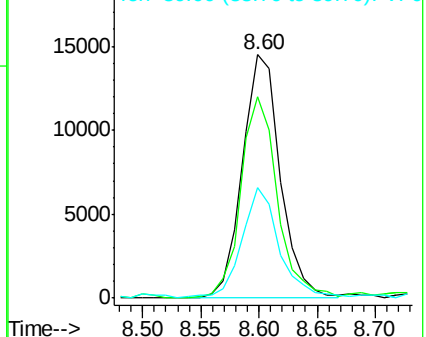
39 45.5 35.3 52.9

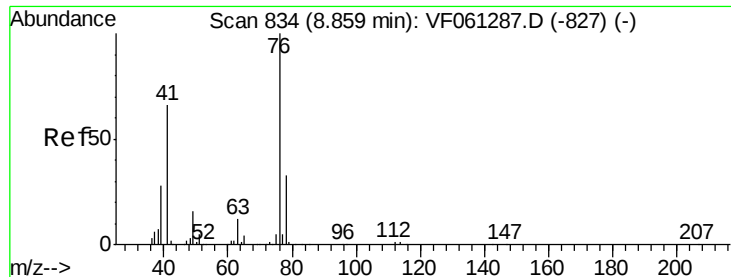


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.529 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

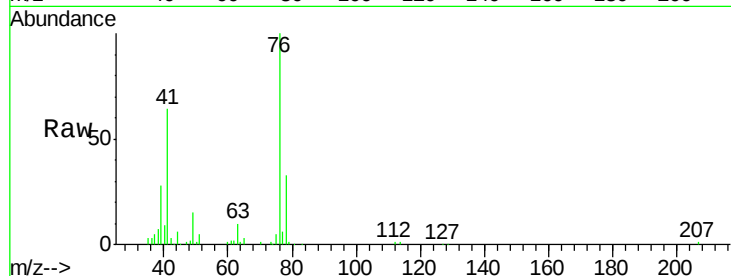
VF0111SBS01

Tot Ion: 76 Resp: 57749

Ion Ratio Lower Upper

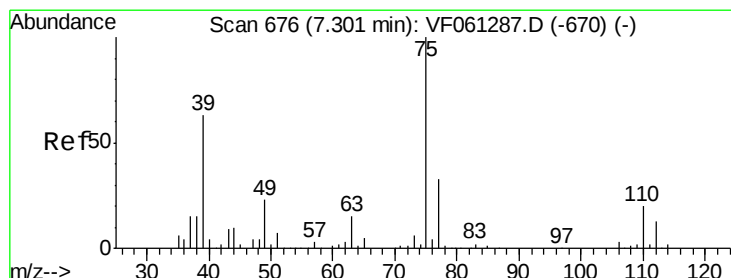
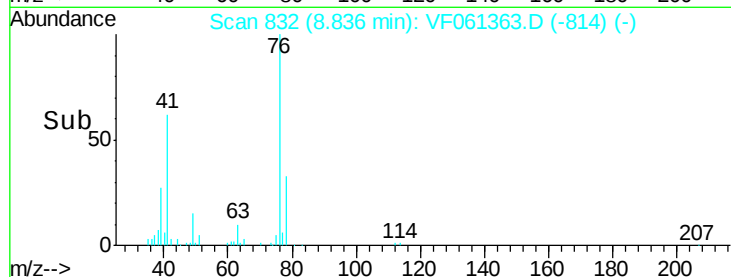
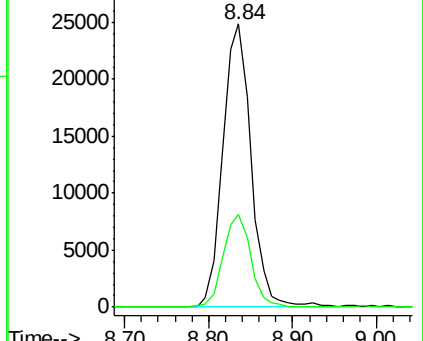
76 100

78 32.7 26.8 40.2



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 84.530 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.02 min

Lab File: VF061363.D

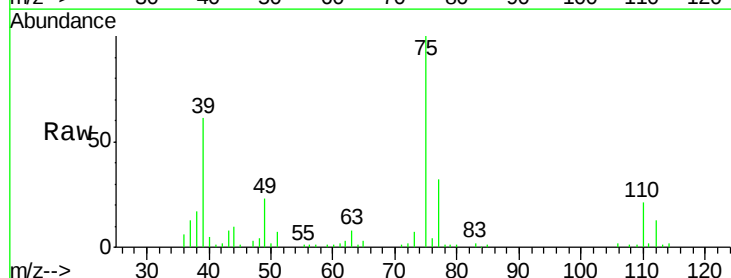
Acq: 11 Jan 2019 12:50

Tgt Ion: 63 Resp: 6102

Ion Ratio Lower Upper

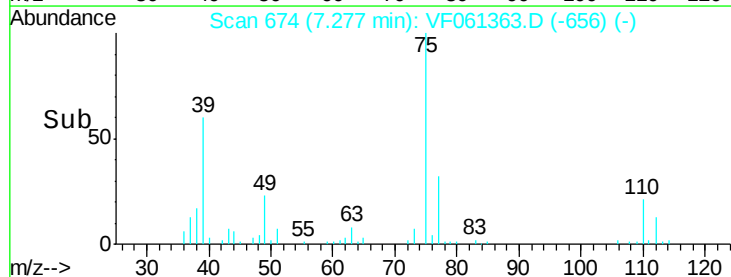
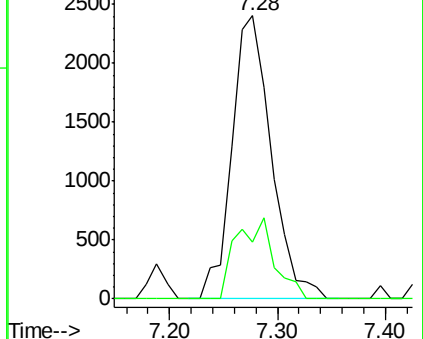
63 100

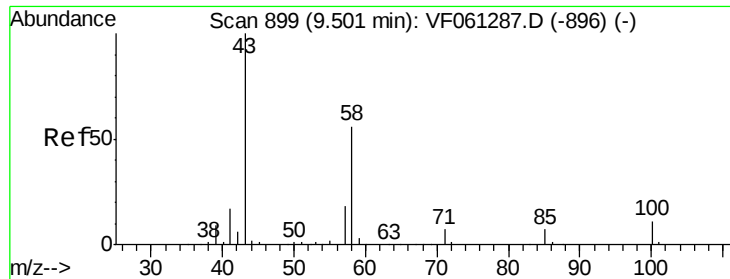
106 20.1 16.5 24.7



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

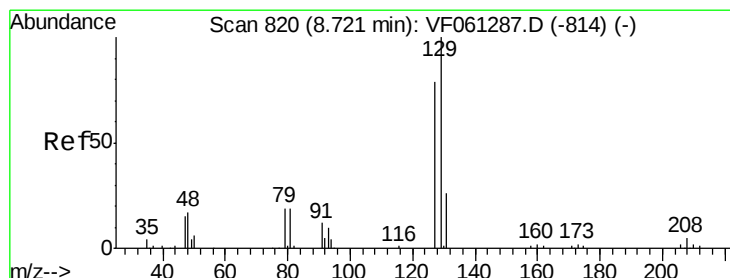
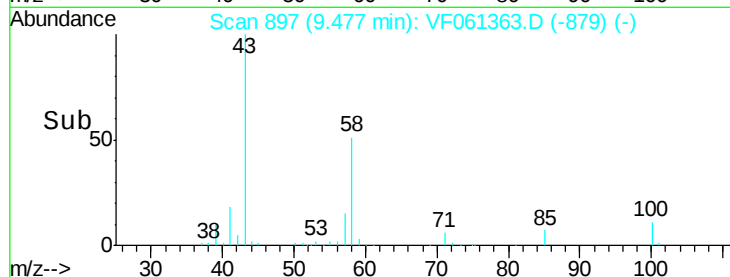
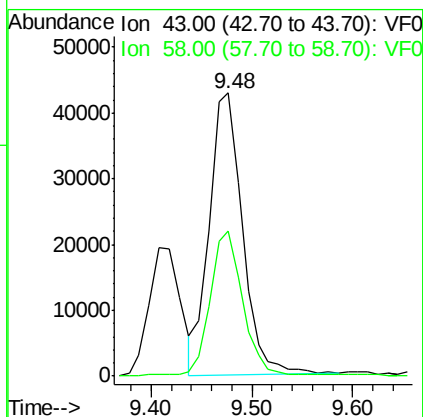
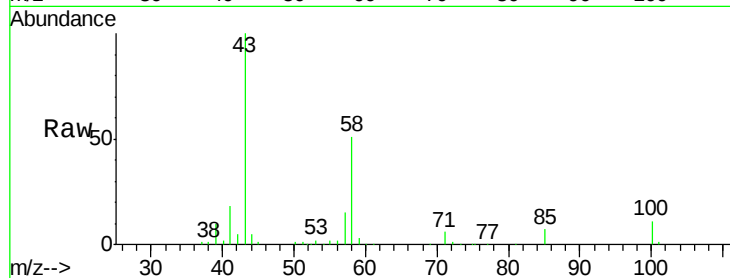




#59
2-Hexanone
Concen: 106.024 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

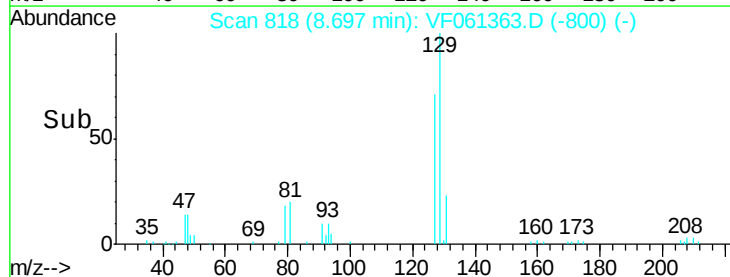
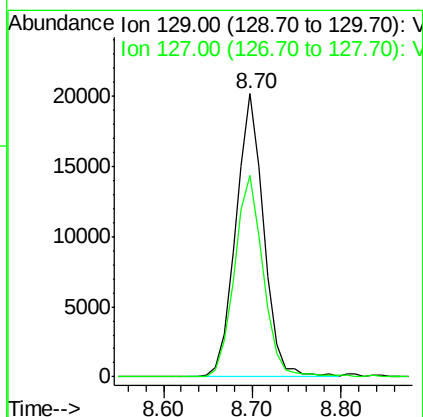
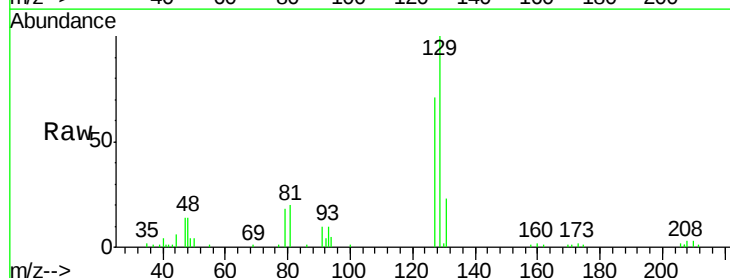
Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

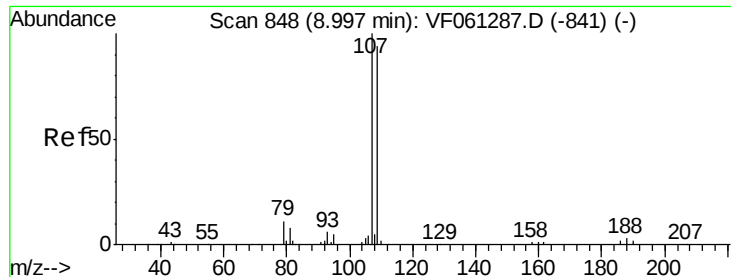
Tot Ion: 43 Resp: 98385
Ion Ratio Lower Upper
43 100
58 51.5 25.6 76.8



#60
Dibromochloromethane
Concen: 21.763 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 129 Resp: 43922
Ion Ratio Lower Upper
129 100
127 71.2 39.4 118.1





#61

1,2-Dibromoethane

Concen: 19.916 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

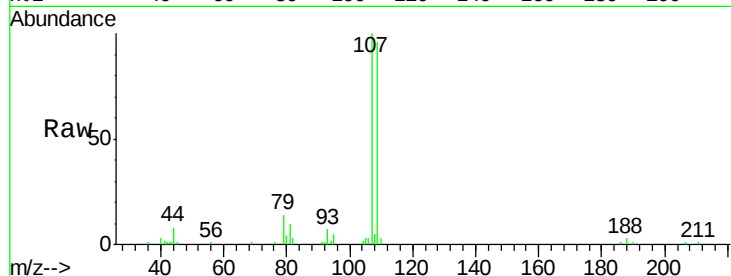
VF0111SBS01

Tot Ion:107 Resp: 30770

Ion Ratio Lower Upper

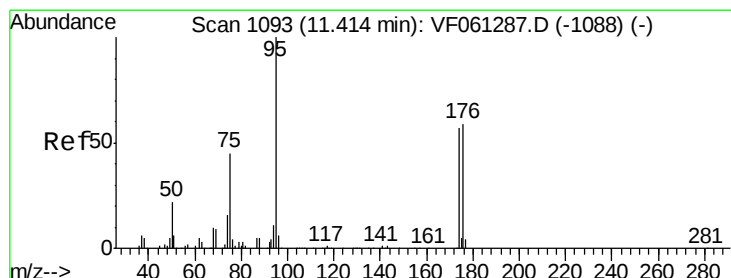
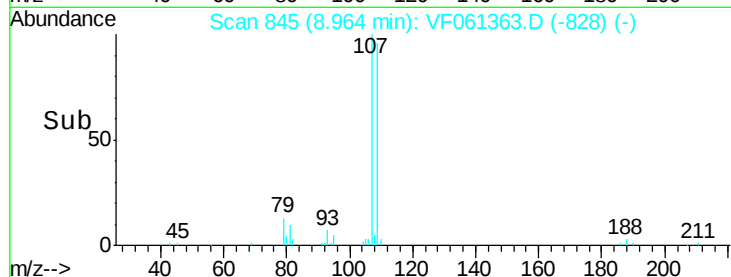
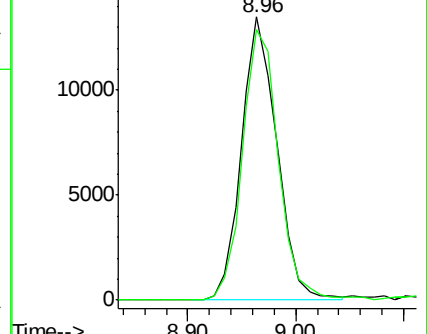
107 100

109 95.8 75.1 112.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 53.775 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

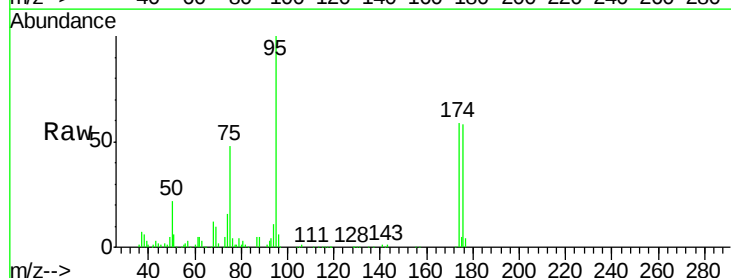
Tgt Ion: 95 Resp: 164340

Ion Ratio Lower Upper

95 100

174 59.1 0.0 114.2

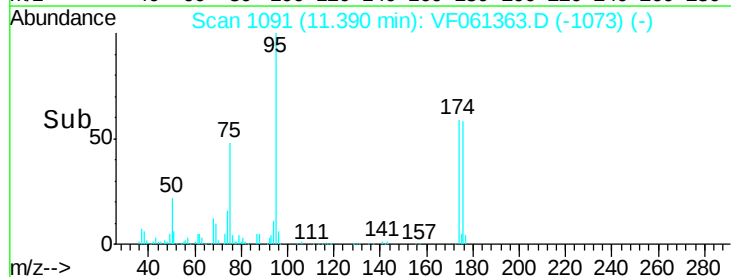
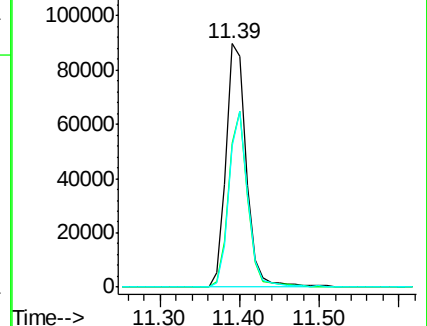
176 57.9 0.0 117.8

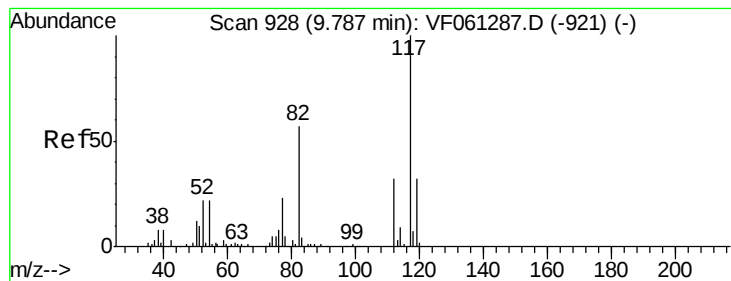


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.75 min Scan# 925

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

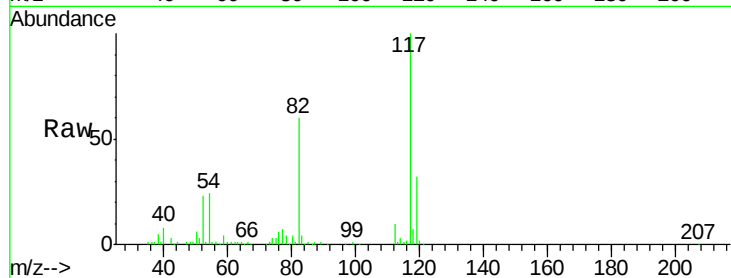
Tot Ion:117 Resp: 297226

Ion Ratio Lower Upper

117 100

82 60.2 45.3 67.9

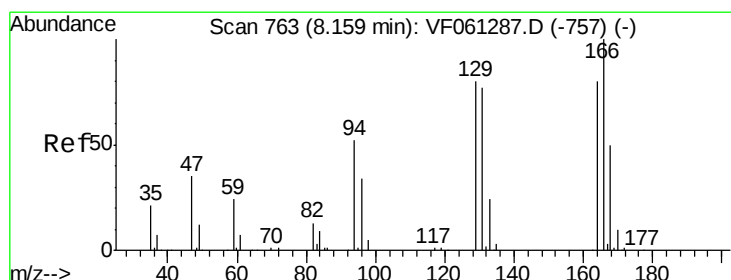
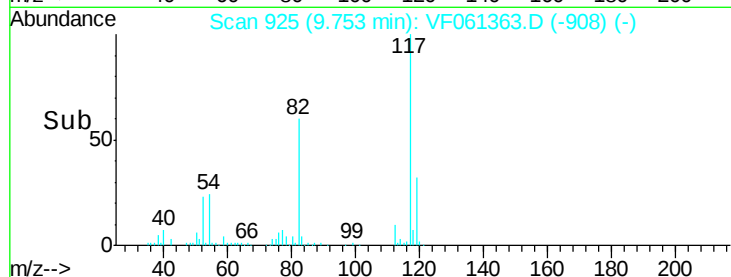
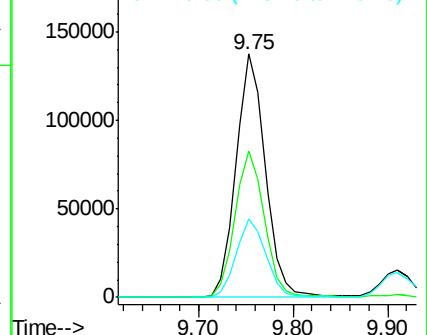
119 32.4 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 21.374 ug/l

RT: 8.14 min Scan# 761

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:164 Resp: 46254

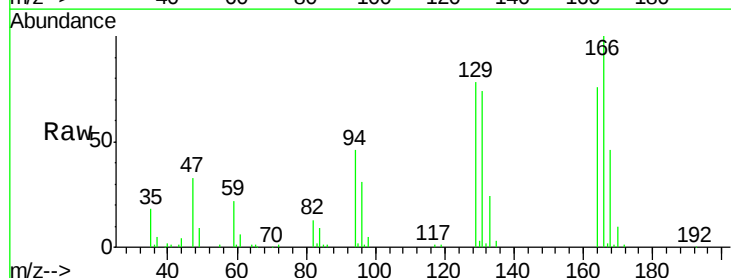
Ion Ratio Lower Upper

164 100

166 132.1 100.1 150.1

129 103.6 80.1 120.1

131 97.2 76.7 115.1

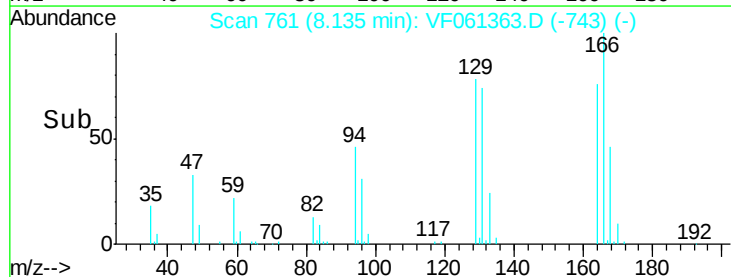
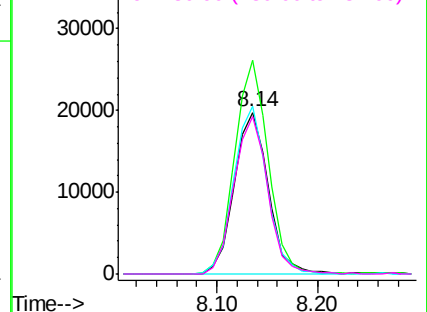


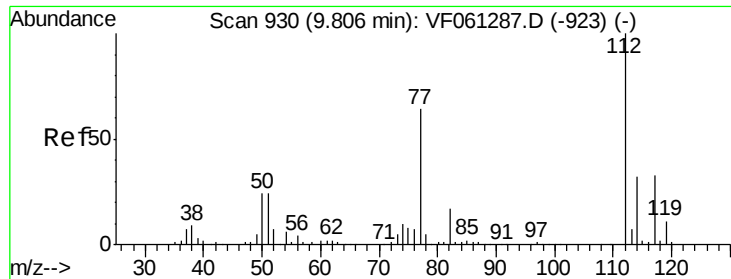
Abundance Ion 163.85 (163.55 to 164.55): V

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

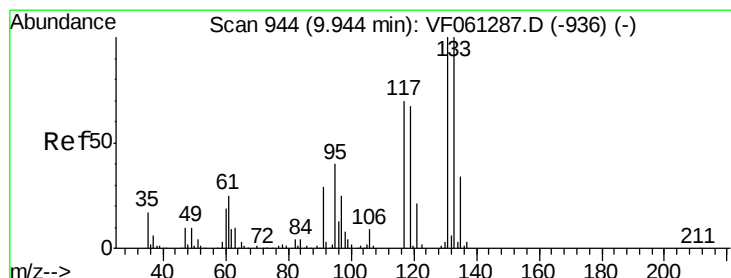
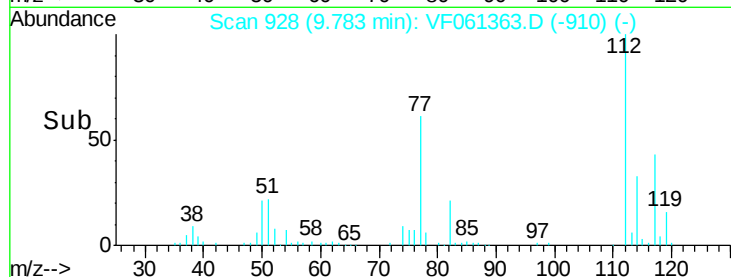
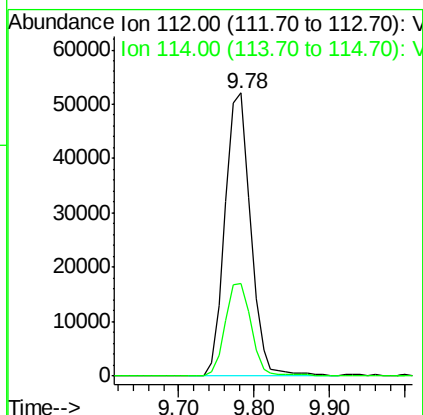
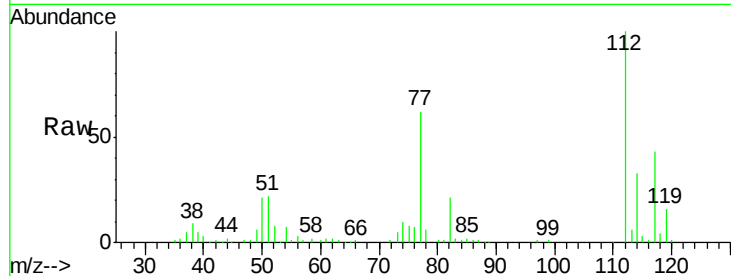




#65
Chlorobenzene
Concen: 20.463 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

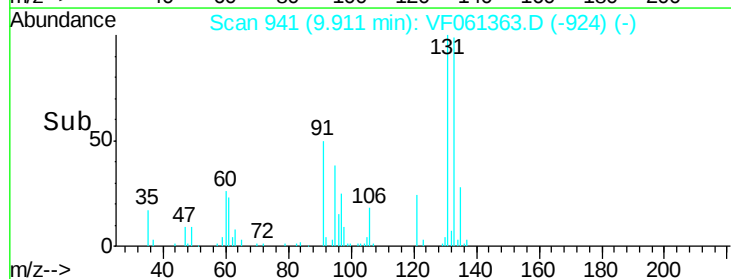
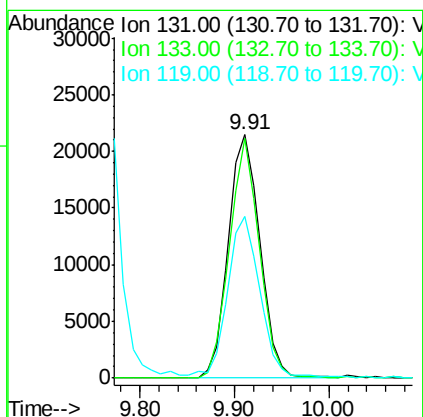
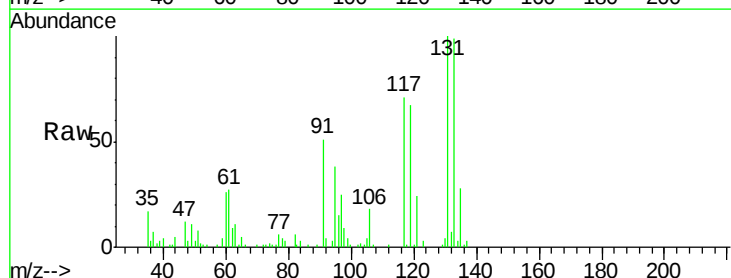
Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

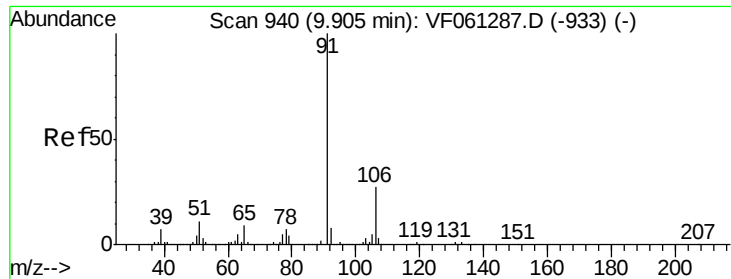
Tot Ion:112 Resp: 122818
Ion Ratio Lower Upper
112 100
114 32.7 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 20.428 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion:131 Resp: 50029
Ion Ratio Lower Upper
131 100
133 98.7 49.9 149.6
119 66.5 33.9 101.6





#67

Ethyl Benzene

Concen: 20.764 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

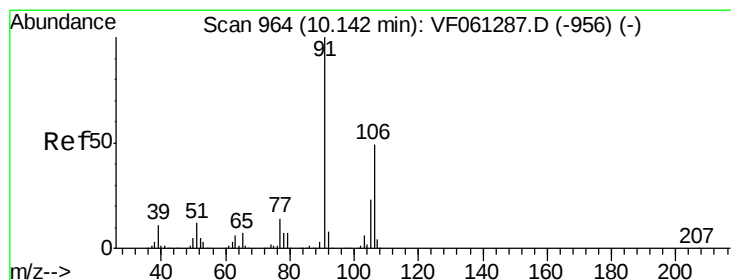
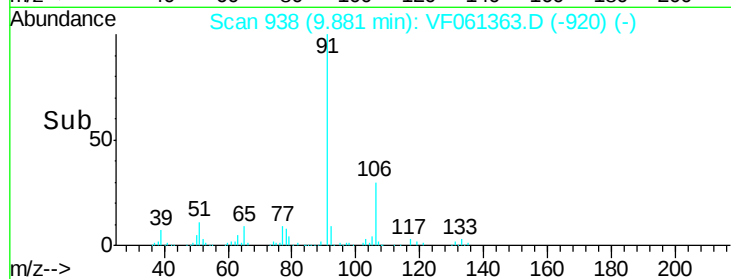
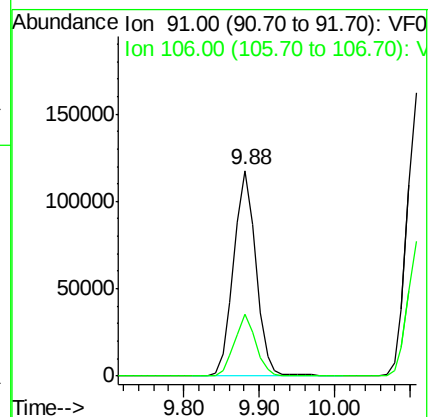
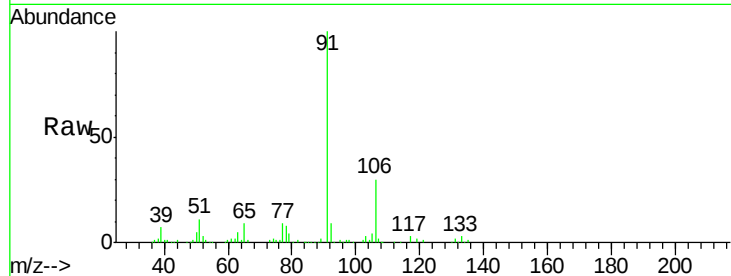
VF0111SBS01

Tot Ion: 91 Resp: 240289

Ion Ratio Lower Upper

91 100

106 30.2 21.4 32.2



#68

m/p-Xylenes

Concen: 40.336 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.03 min

Lab File: VF061363.D

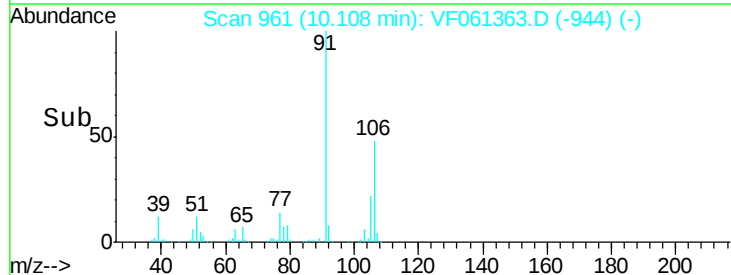
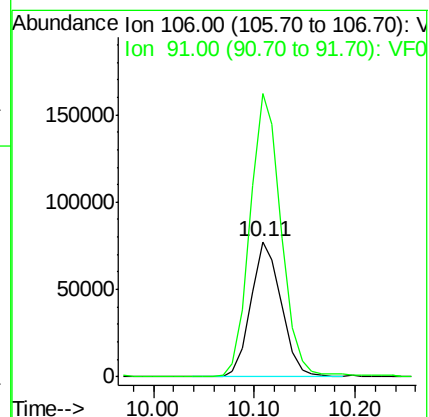
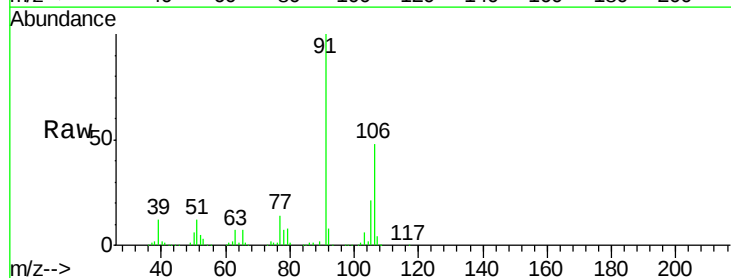
Acq: 11 Jan 2019 12:50

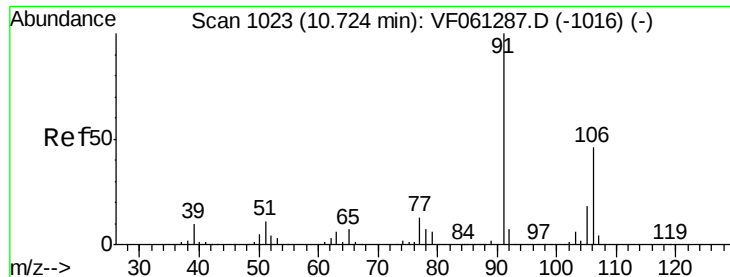
Tgt Ion: 106 Resp: 162825

Ion Ratio Lower Upper

106 100

91 209.3 165.0 247.6

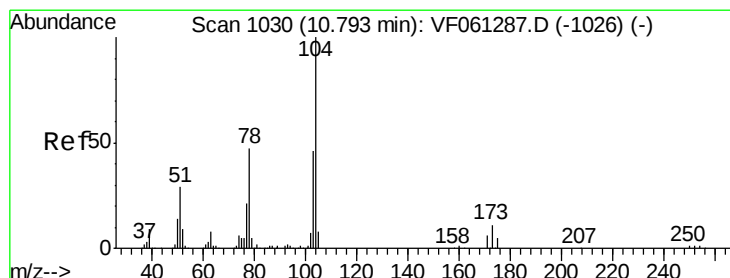
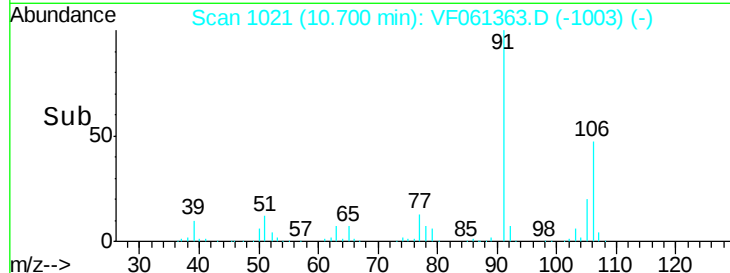
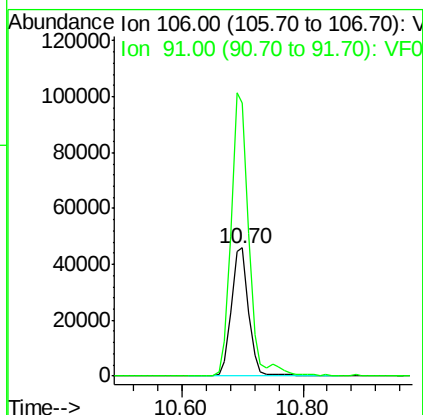
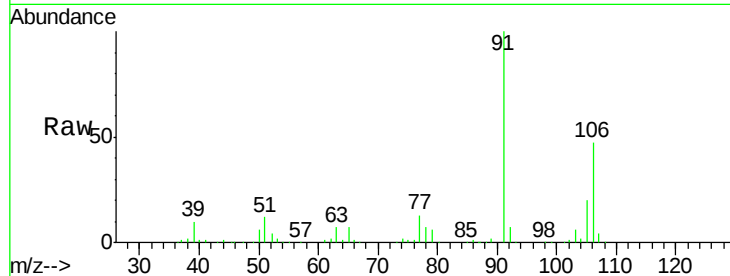




#69
o-Xylene
Concen: 20.493 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

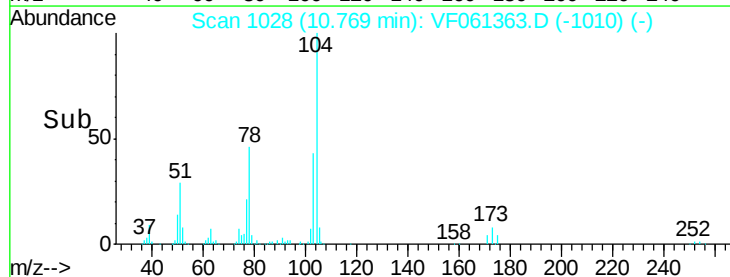
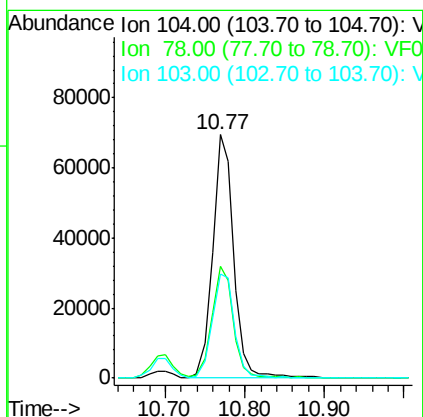
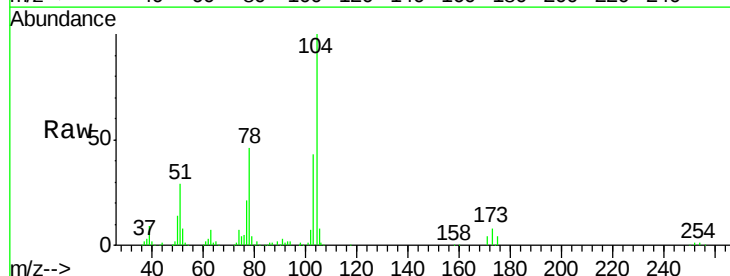
Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

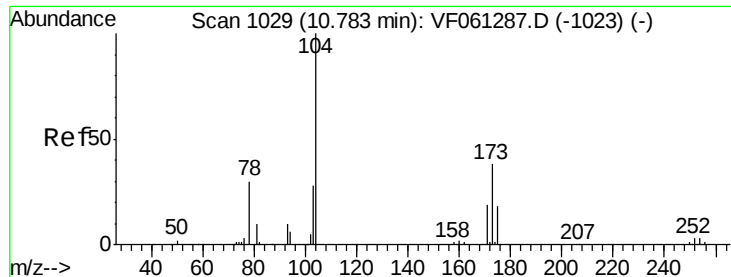
Tot Ion:106 Resp: 92407
Ion Ratio Lower Upper
106 100
91 212.6 108.1 324.4



#70
Styrene
Concen: 21.388 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion:104 Resp: 128479
Ion Ratio Lower Upper
104 100
78 45.9 38.0 57.0
103 43.0 36.7 55.1





#71

Bromoform

Concen: 19.745 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

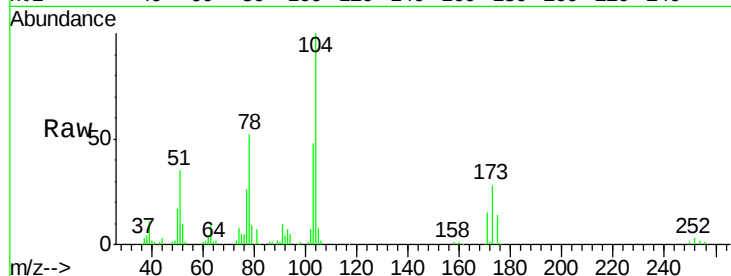
Tot Ion:173 Resp: 19763

Ion Ratio Lower Upper

173 100

175 52.4 24.1 72.2

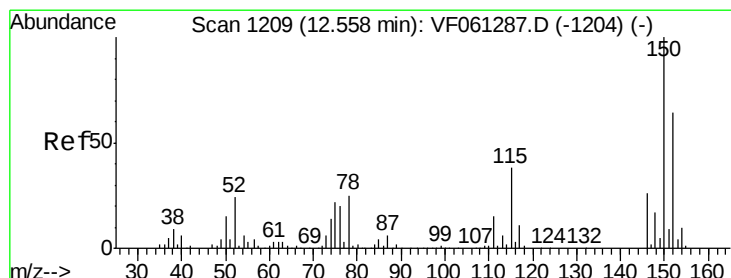
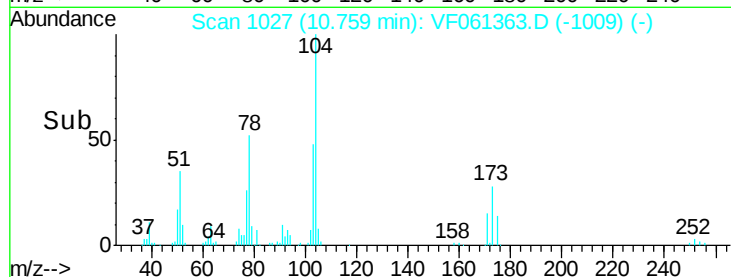
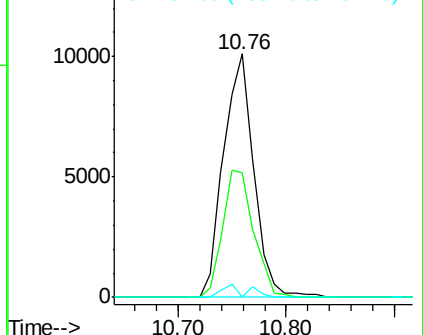
254 0.0 0.0 0.0



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: 12.53 min Scan# 1207

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

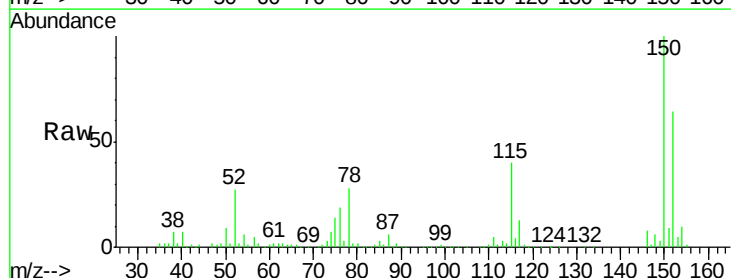
Tgt Ion:152 Resp: 146440

Ion Ratio Lower Upper

152 100

115 61.8 29.6 88.9

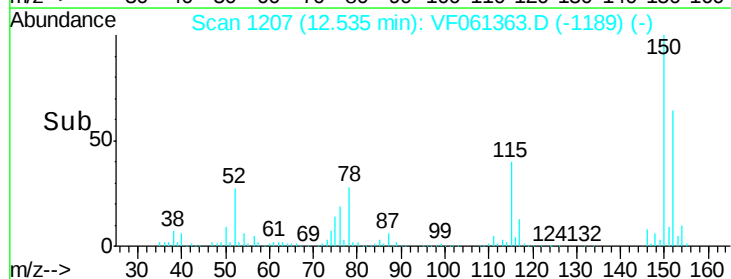
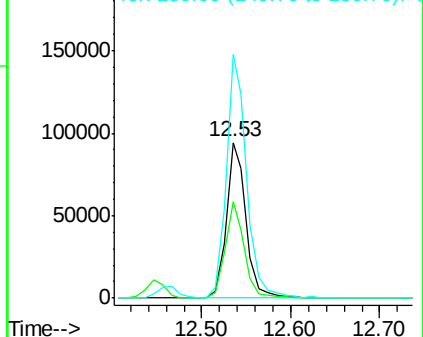
150 156.3 0.0 315.4

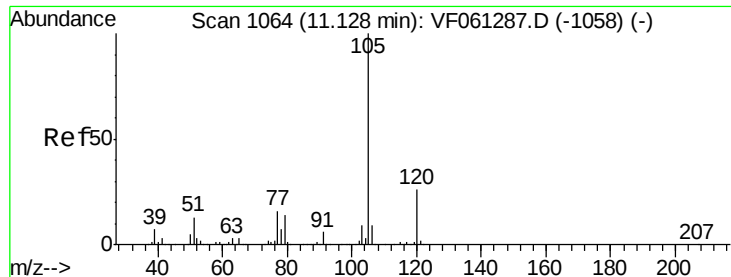


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.221 ug/l

RT: 11.10 min Scan# 1062

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

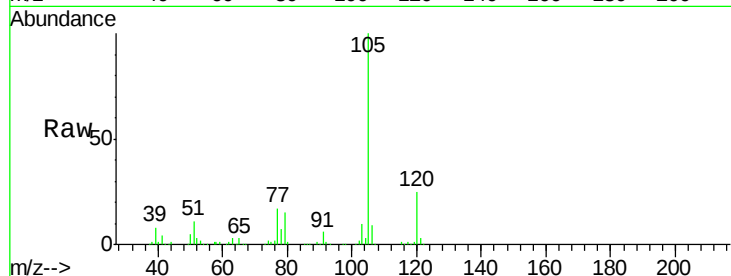
VF0111SBS01

Tot Ion:105 Resp: 273450

Ion Ratio Lower Upper

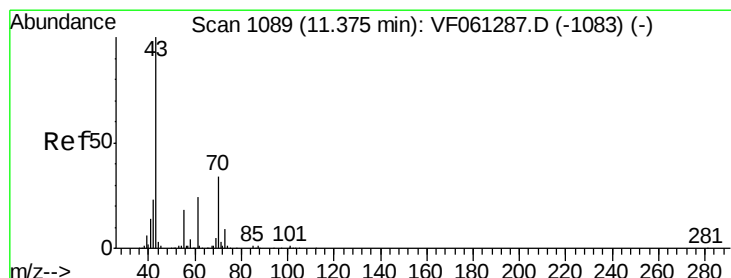
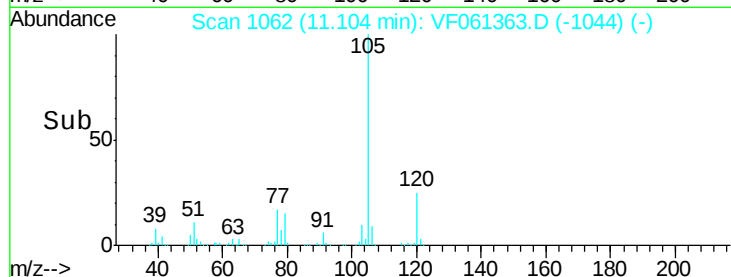
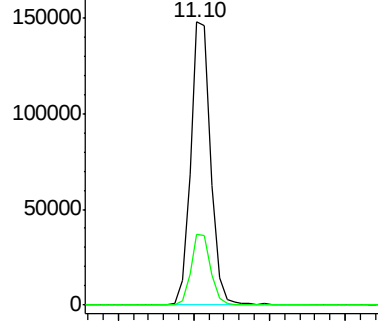
105 100

120 25.1 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.229 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion: 43 Resp: 56325

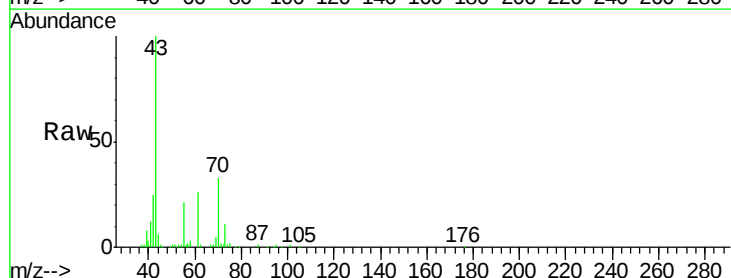
Ion Ratio Lower Upper

43 100

70 33.4 27.4 41.0

55 20.6 14.7 22.1

61 26.0 19.0 28.4

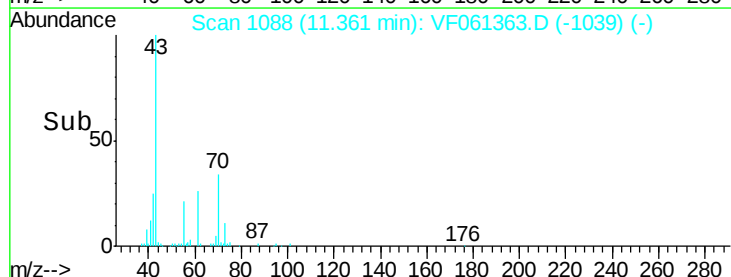
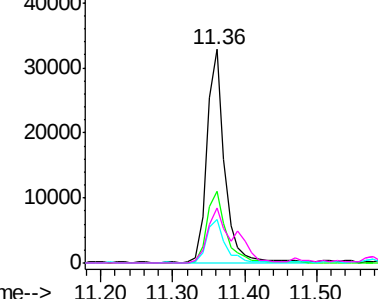


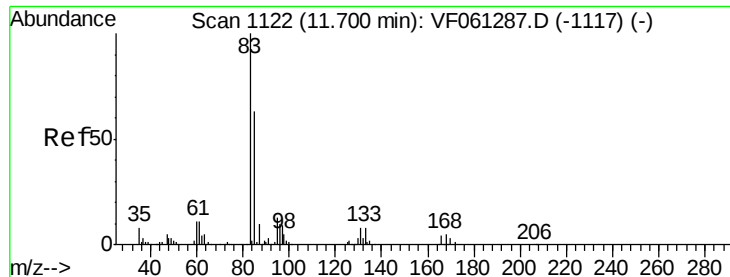
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.160 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

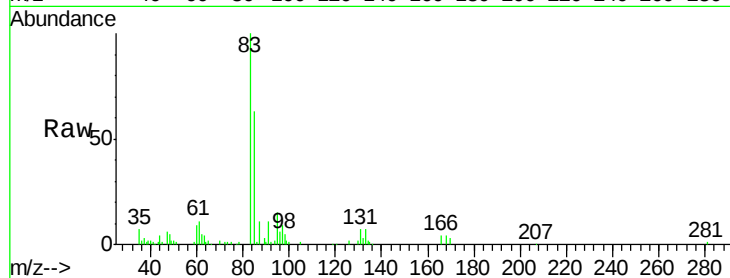
Tot Ion: 83 Resp: 41189

Ion Ratio Lower Upper

83 100

131 7.0 3.9 11.7

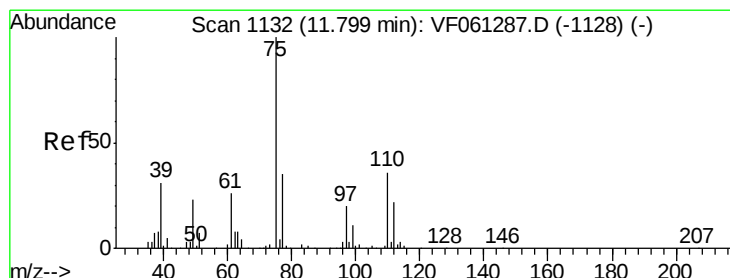
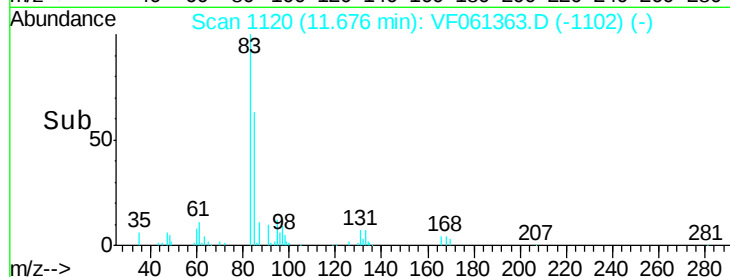
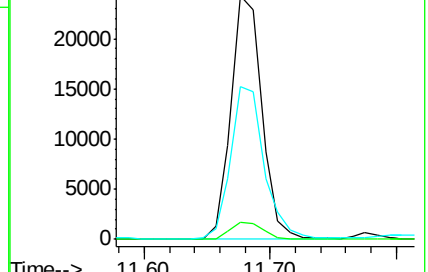
85 62.8 31.6 94.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 20.030 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF061363.D

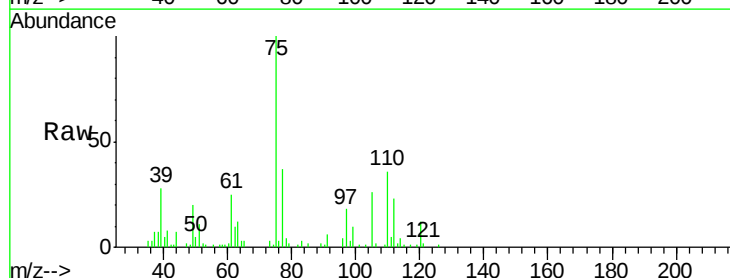
Acq: 11 Jan 2019 12:50

Tgt Ion: 75 Resp: 30015

Ion Ratio Lower Upper

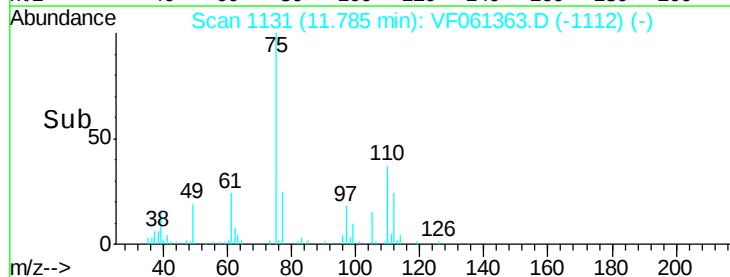
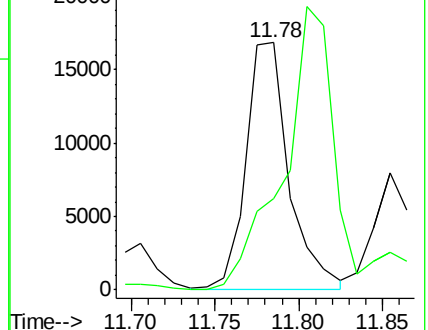
75 100

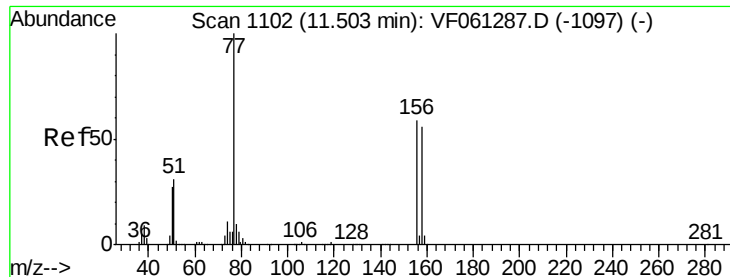
77 37.1 17.5 52.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.480 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

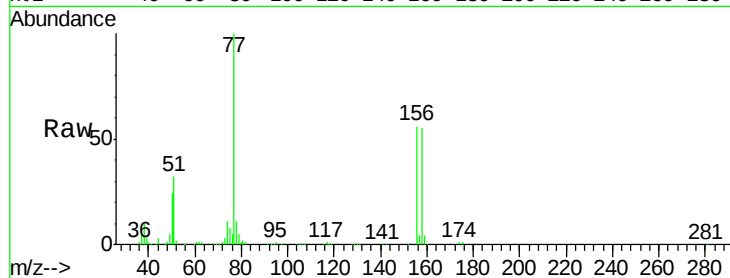
Tot Ion:156 Resp: 55066

Ion Ratio Lower Upper

156 100

77 180.0 84.3 252.9

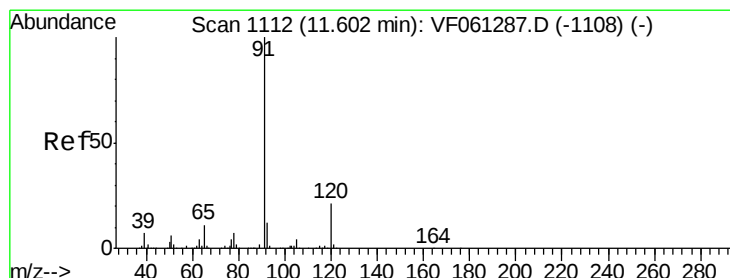
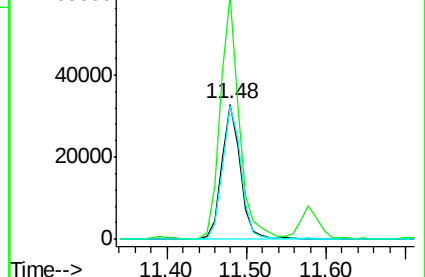
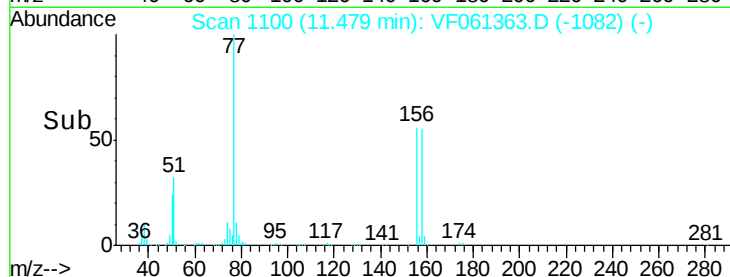
158 98.4 47.1 141.3



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: 20.743 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VF061363.D

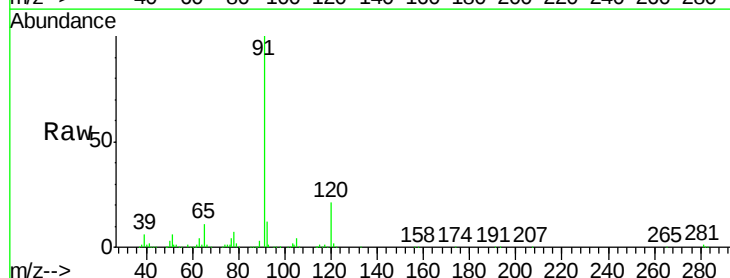
Acq: 11 Jan 2019 12:50

Tgt Ion: 91 Resp: 318701

Ion Ratio Lower Upper

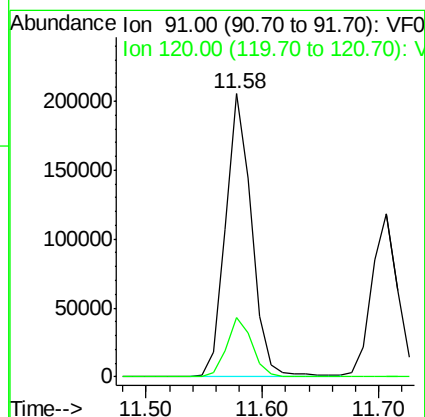
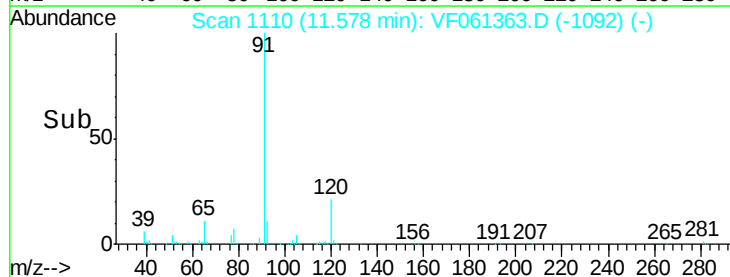
91 100

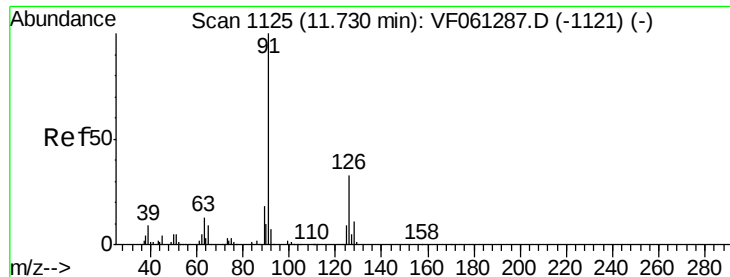
120 21.0 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.874 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

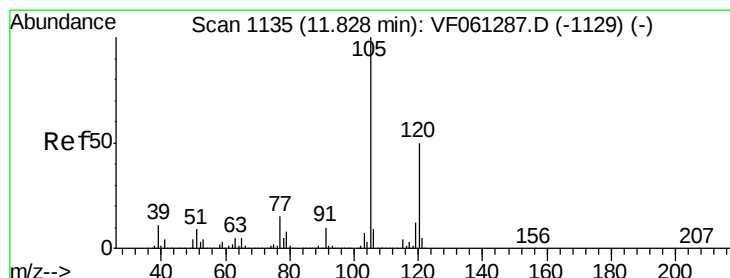
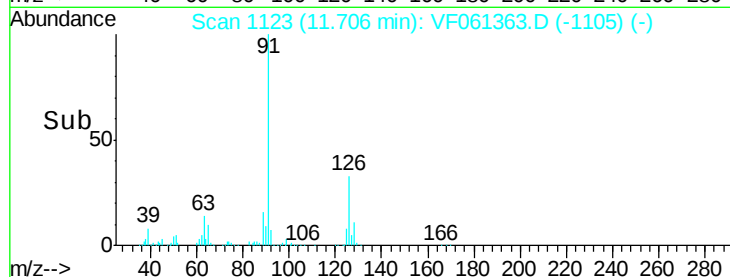
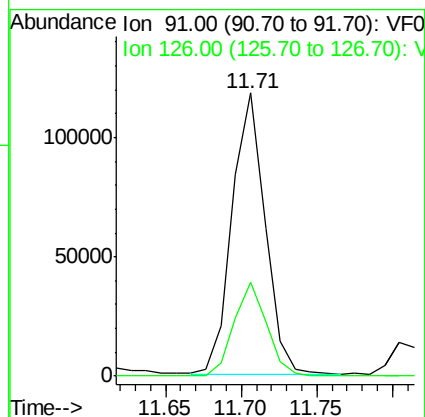
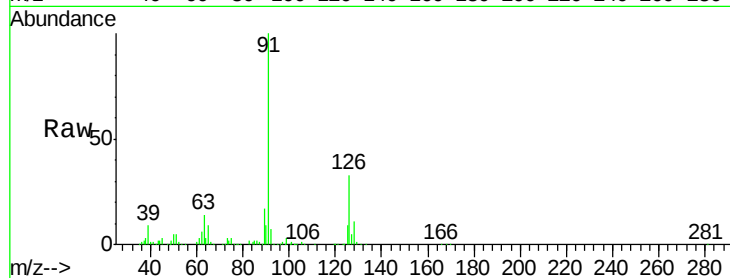
VF0111SBS01

Tot Ion: 91 Resp: 178676

Ion Ratio Lower Upper

91 100

126 33.2 16.6 49.8



#80

1,3,5-Trimethylbenzene

Concen: 21.380 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.02 min

Lab File: VF061363.D

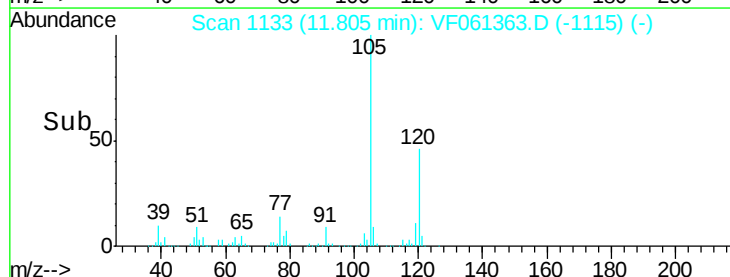
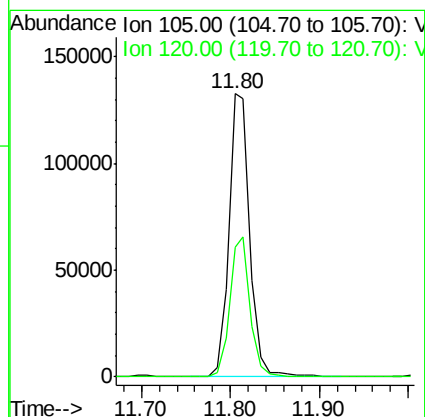
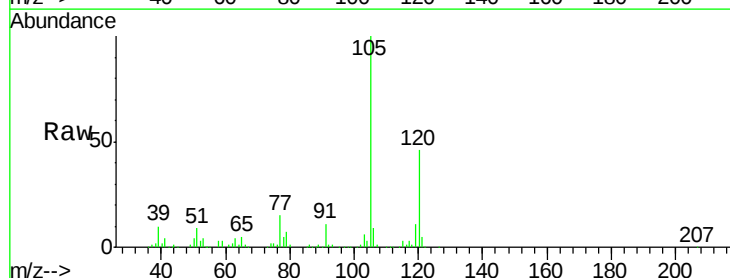
Acq: 11 Jan 2019 12:50

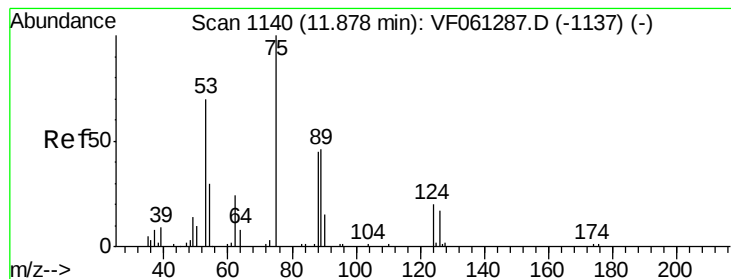
Tgt Ion:105 Resp: 219218

Ion Ratio Lower Upper

105 100

120 46.0 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 28.511 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

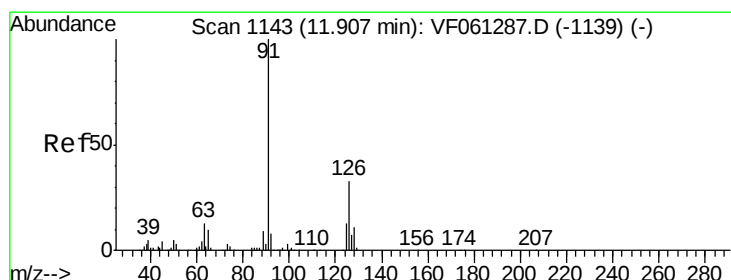
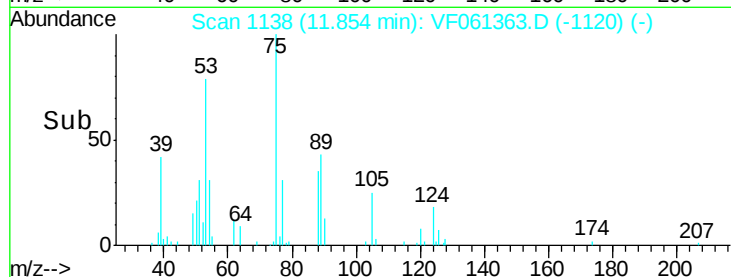
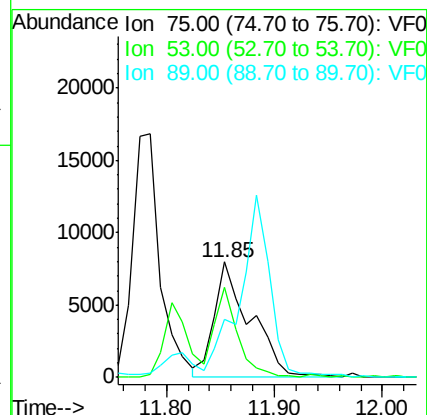
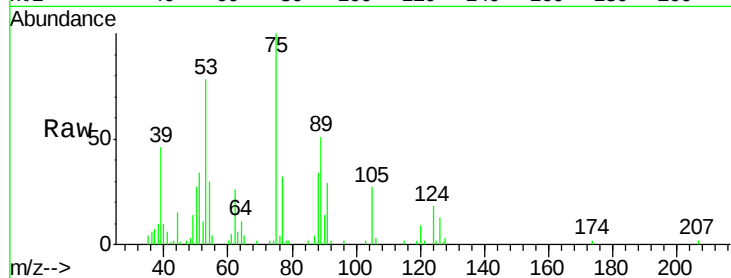
Tot Ion: 75 Resp: 18670

Ion Ratio Lower Upper

75 100

53 77.6 62.2 93.2

89 50.6 40.2 60.4



#82

4-Chlorotoluene

Concen: 20.515 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VF061363.D

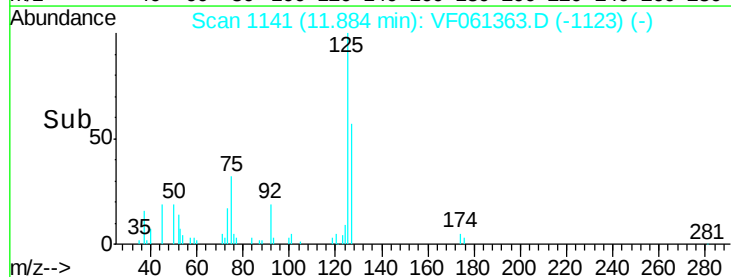
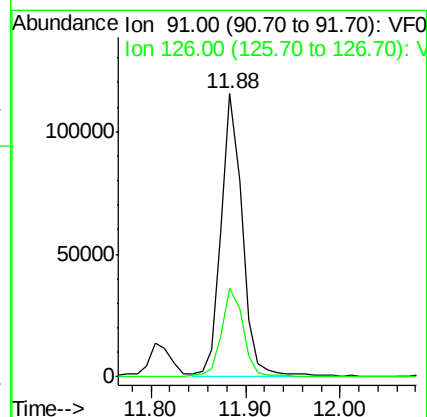
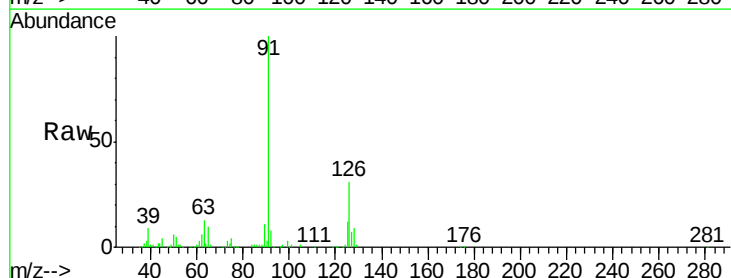
Acq: 11 Jan 2019 12:50

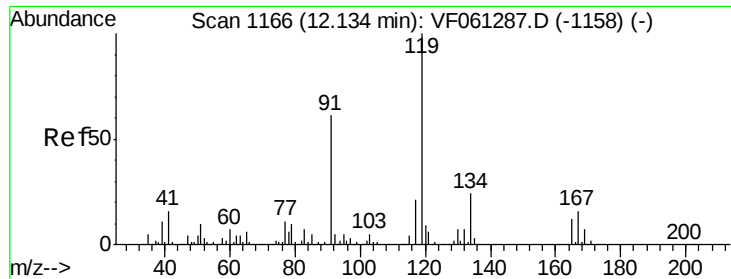
Tgt Ion: 91 Resp: 178443

Ion Ratio Lower Upper

91 100

126 31.4 16.4 49.4





#83

tert-Butylbenzene

Concen: 21.459 ug/l

RT: 12.12 min Scan# 1165

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

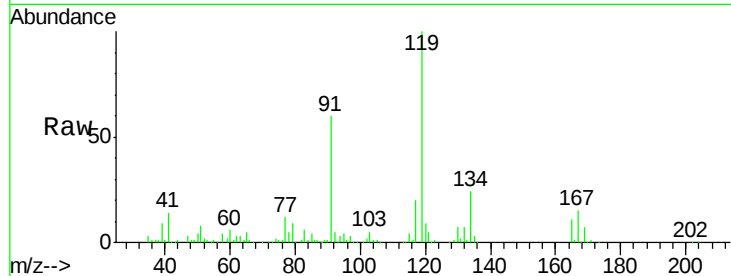
Tot Ion:119 Resp: 219212

Ion Ratio Lower Upper

119 100

91 59.9 30.8 92.4

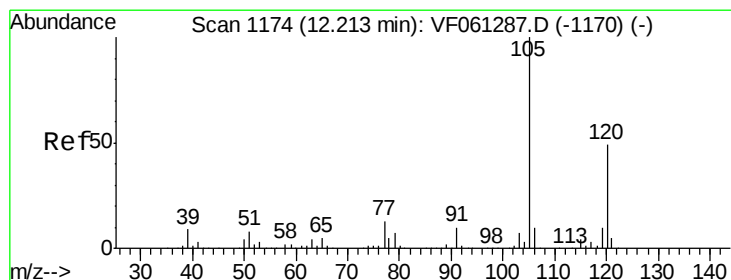
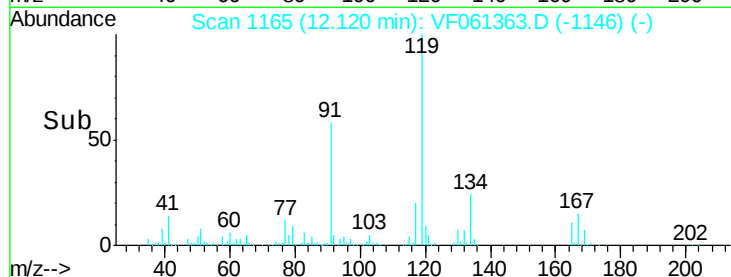
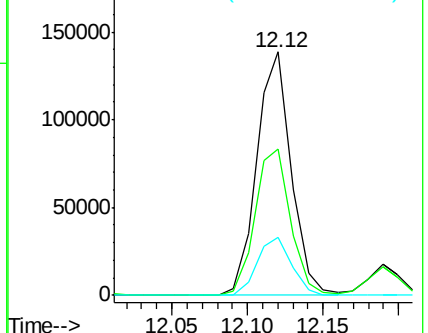
134 23.9 11.9 35.9



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: 21.026 ug/l

RT: 12.19 min Scan# 1172

Delta R.T. -0.02 min

Lab File: VF061363.D

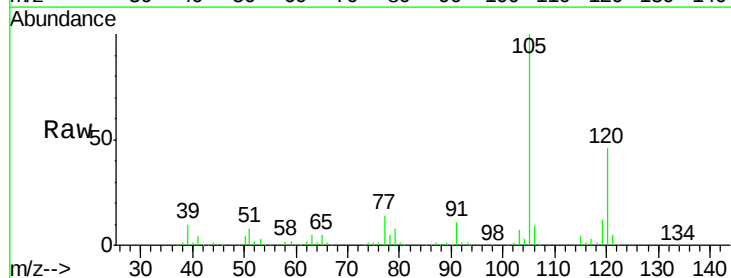
Acq: 11 Jan 2019 12:50

Tgt Ion:105 Resp: 214046

Ion Ratio Lower Upper

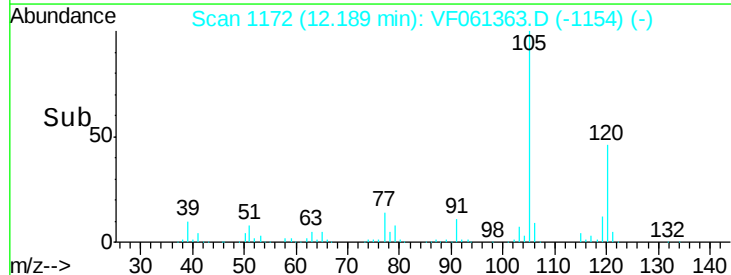
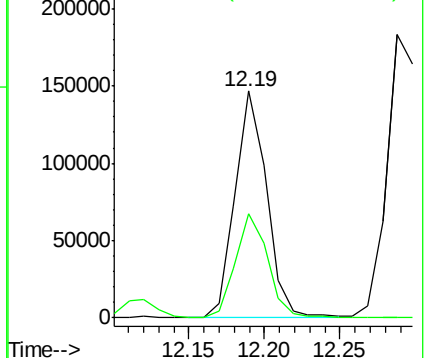
105 100

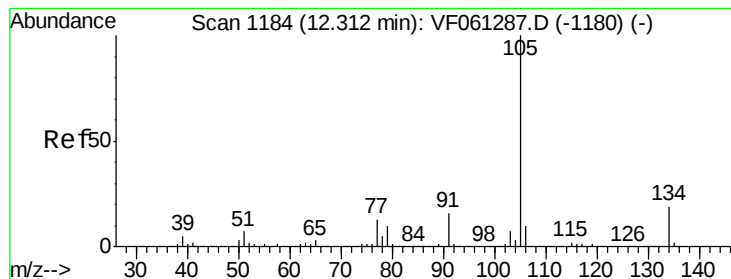
120 45.9 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.120 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

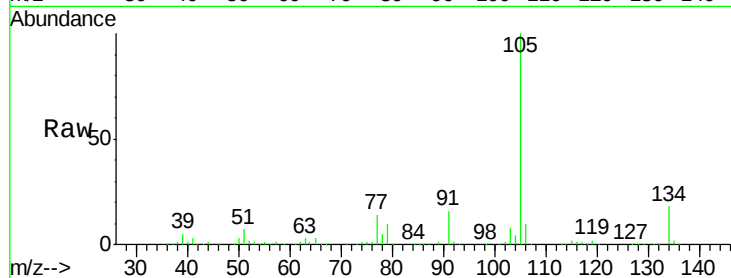
VF0111SBS01

Tot Ion:105 Resp: 292647

Ion Ratio Lower Upper

105 100

134 17.5 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.29

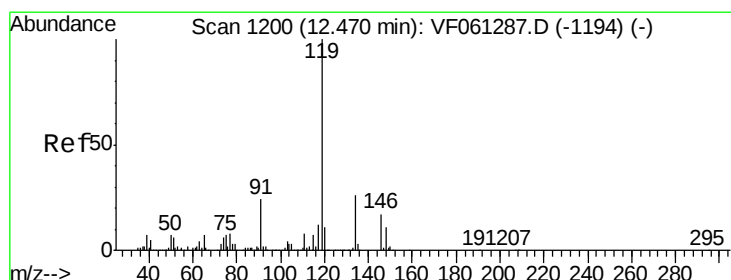
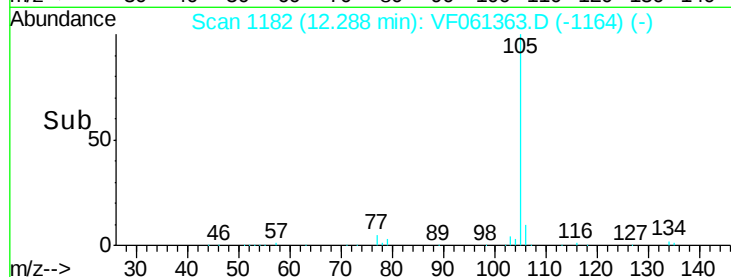
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.777 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

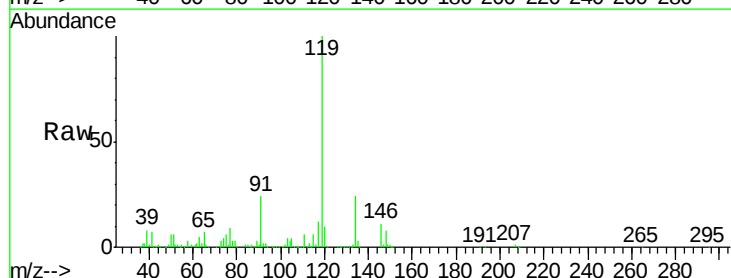
Tgt Ion:119 Resp: 245805

Ion Ratio Lower Upper

119 100

134 23.8 13.0 39.0

91 24.1 12.2 36.4



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

12.45

200000

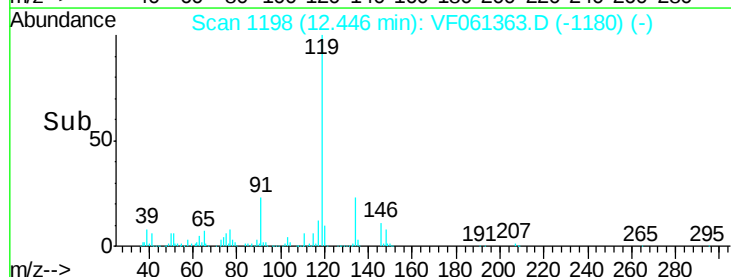
150000

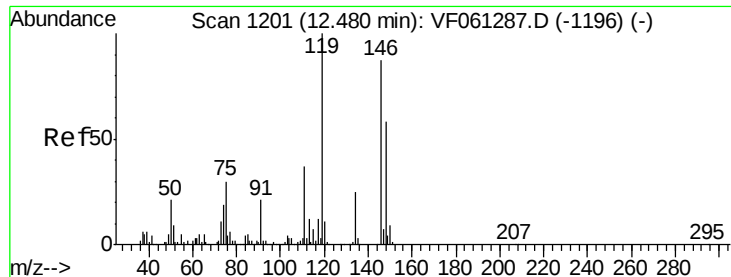
100000

50000

0

Time-->

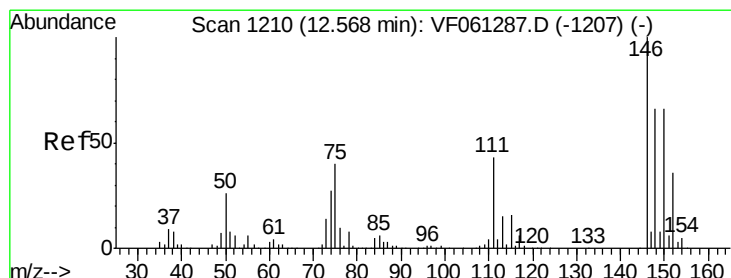
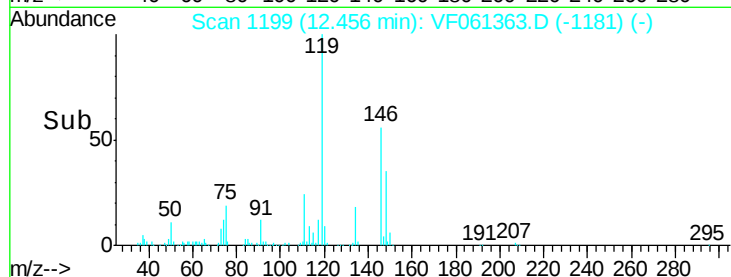
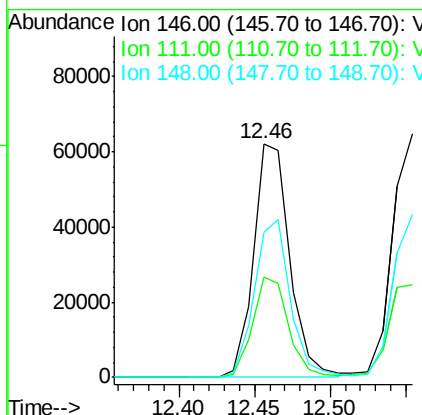
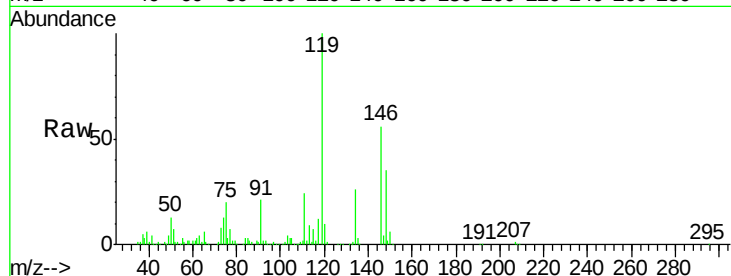




#87
 1,3-Dichlorobenzene
 Concen: 20.629 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

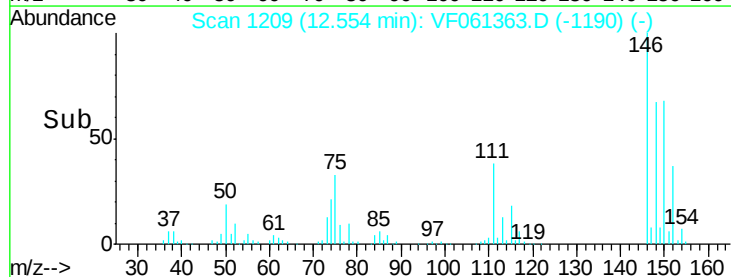
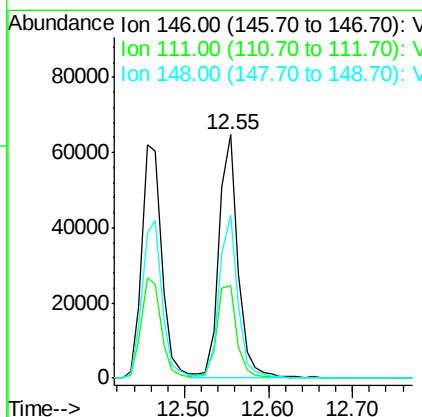
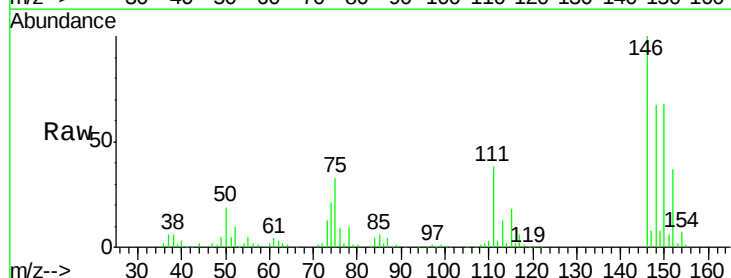
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

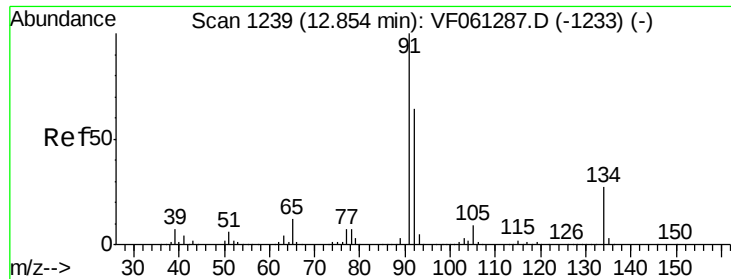
Tot Ion:146 Resp: 103274
 Ion Ratio Lower Upper
 146 100
 111 42.9 21.1 63.3
 148 61.9 33.1 99.5



#88
 1,4-Dichlorobenzene
 Concen: 21.120 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion:146 Resp: 101649
 Ion Ratio Lower Upper
 146 100
 111 38.1 21.4 64.2
 148 66.9 33.0 98.9

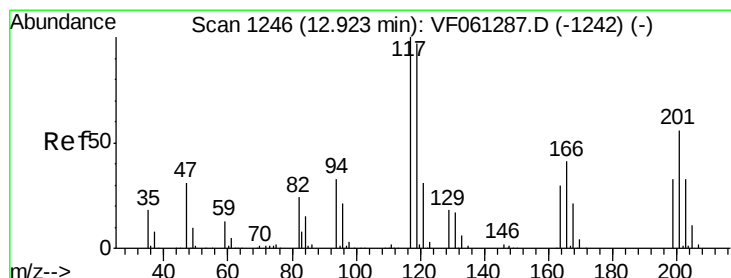
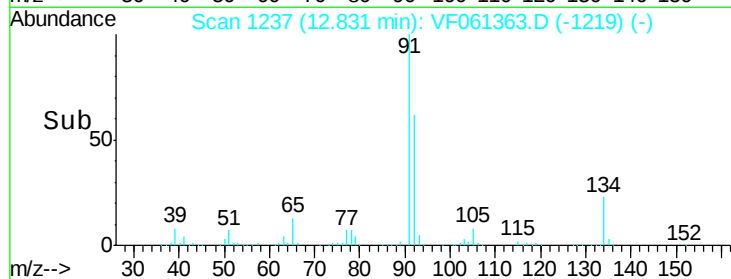
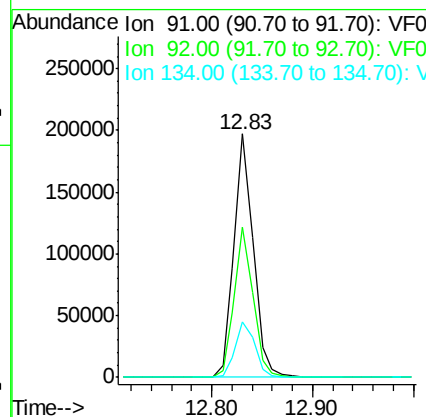
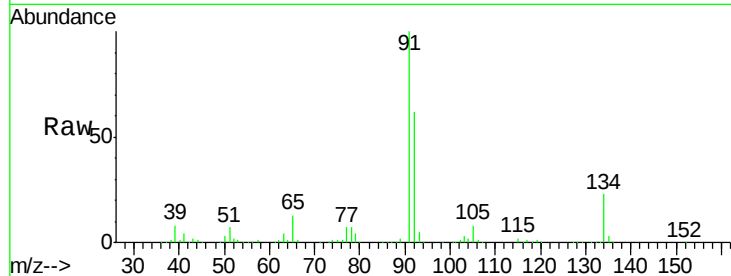




#89
n-Butylbenzene
Concen: 21.720 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

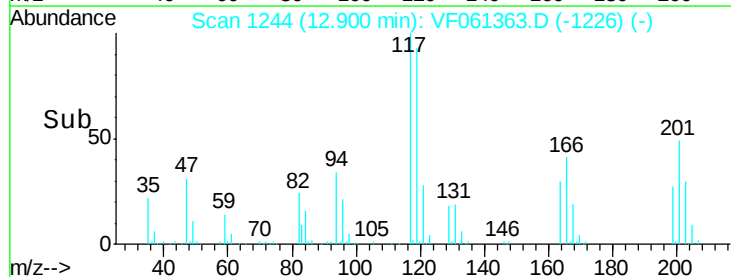
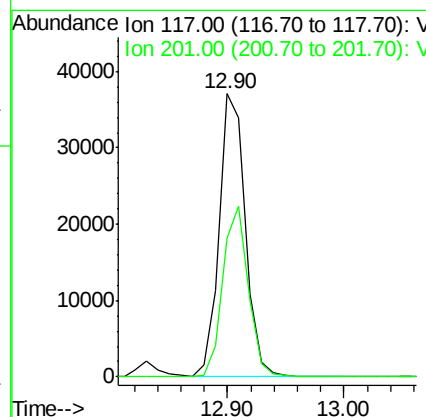
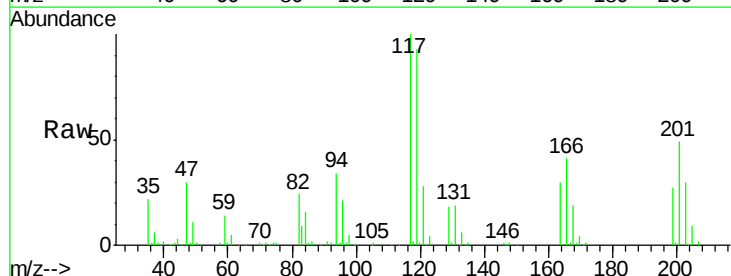
Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

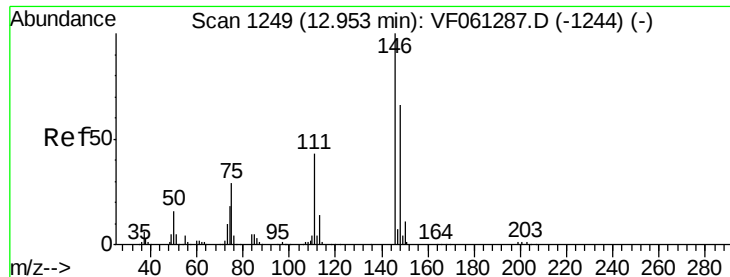
Tot Ion: 91 Resp: 264026
Ion Ratio Lower Upper
91 100
92 61.6 32.1 96.3
134 22.7 13.4 40.1



#90
Hexachloroethane
Concen: 21.387 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 117 Resp: 57878
Ion Ratio Lower Upper
117 100
201 49.0 27.9 83.7

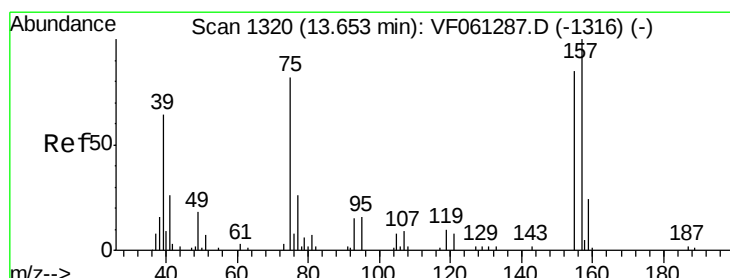
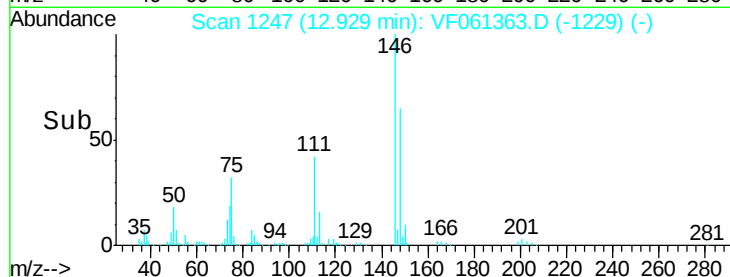
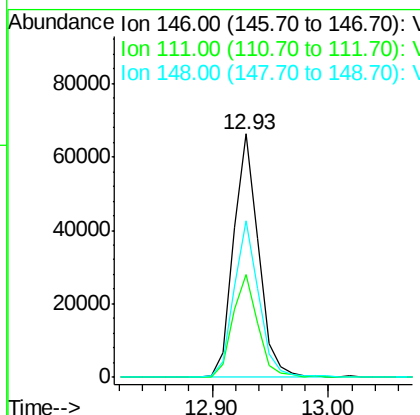
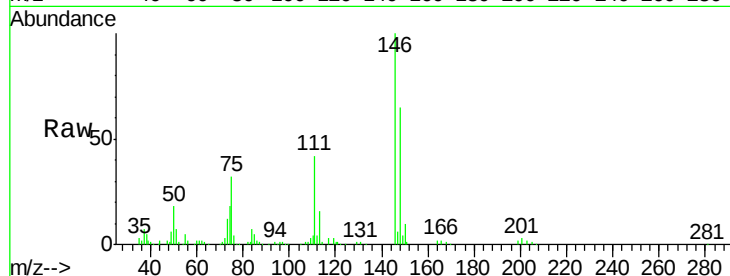




#91
 1,2-Dichlorobenzene
 Concen: 20.598 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

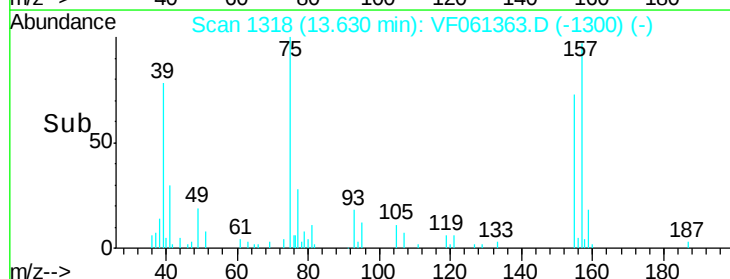
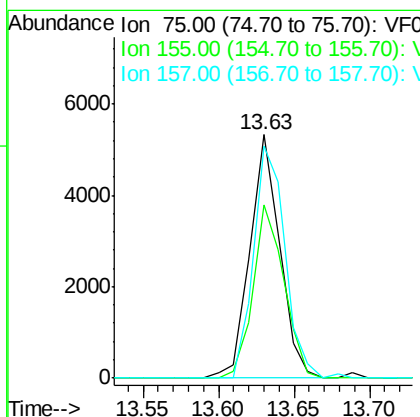
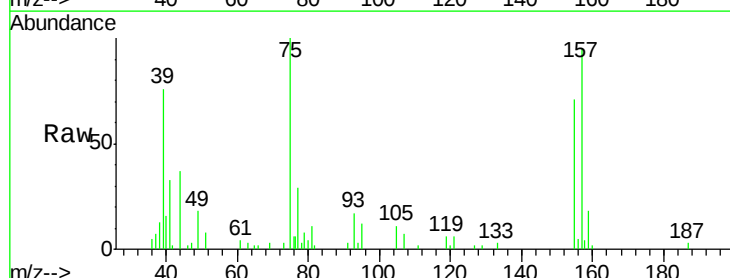
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Tot Ion	146	Resp	98426
Ion Ratio	100	Lower	Upper
111	42.3	21.4	64.3
148	64.6	33.1	99.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.248 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion	75	Resp	7335
Ion Ratio	100	Lower	Upper
155	71.3	51.3	154.0
157	95.4	60.7	182.0

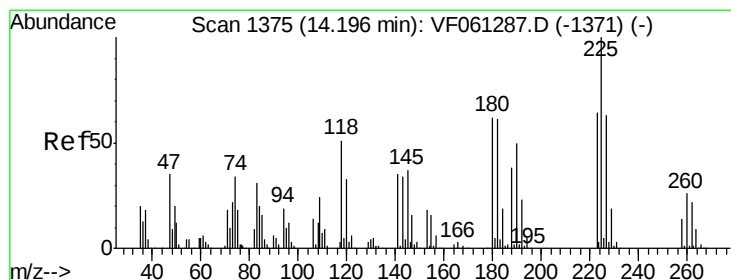
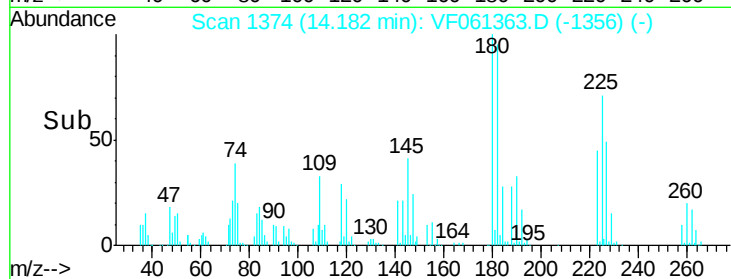
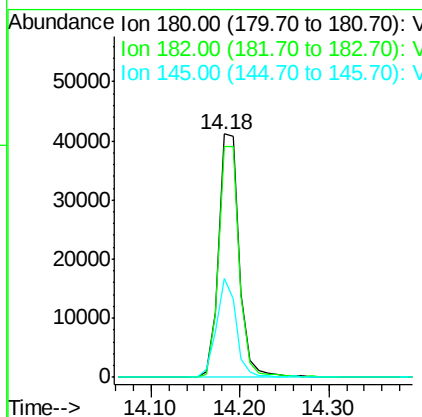
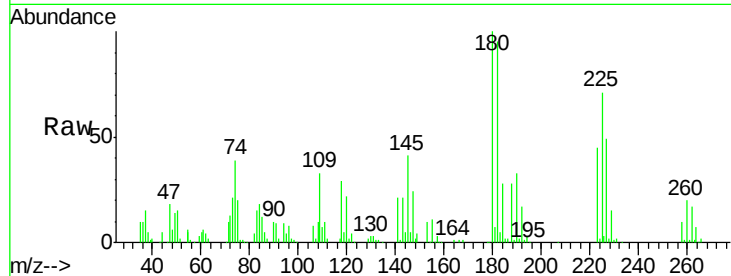




#93
 1,2,4-Trichlorobenzene
 Concen: 20.589 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

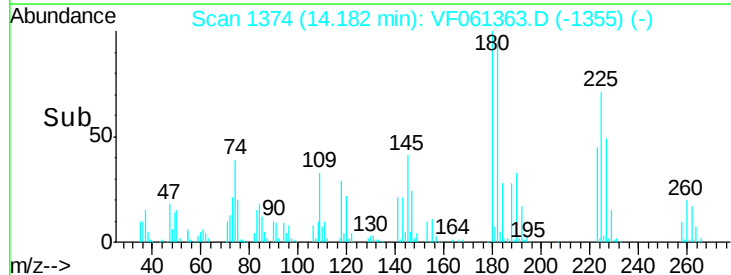
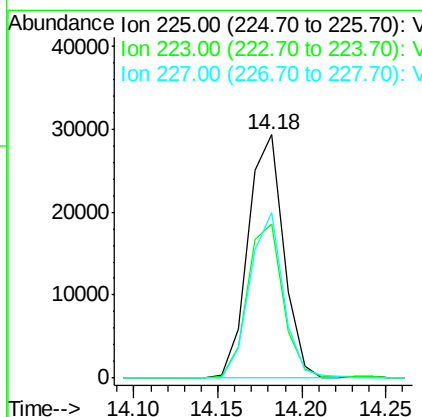
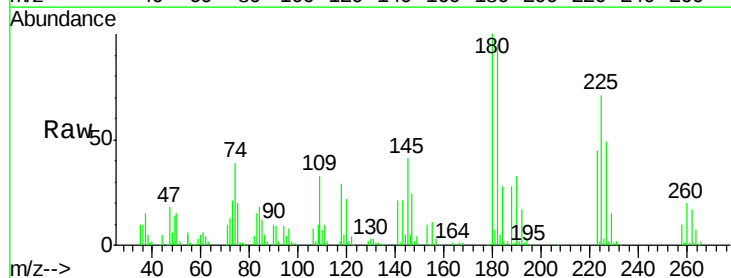
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

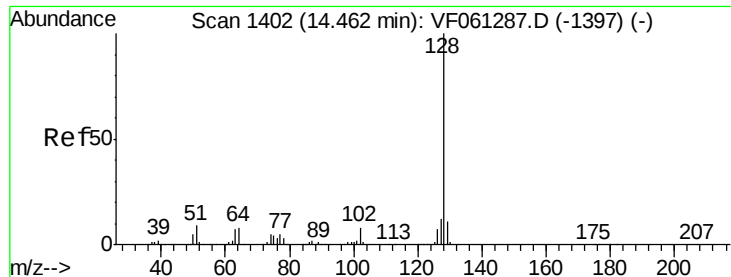
Tot Ion:180 Resp: 67704
 Ion Ratio Lower Upper
 180 100
 182 94.6 47.0 141.2
 145 40.6 19.7 59.1



#94
 Hexachlorobutadiene
 Concen: 20.228 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion:225 Resp: 42822
 Ion Ratio Lower Upper
 225 100
 223 63.4 31.8 95.4
 227 68.2 31.3 93.9

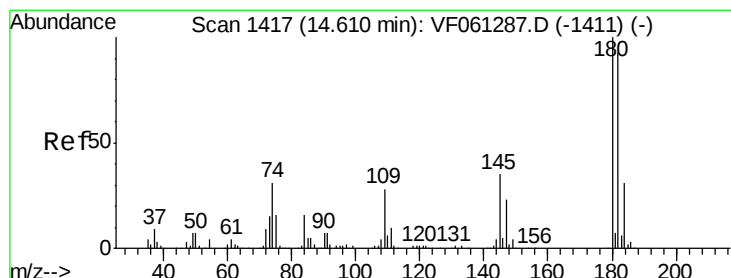
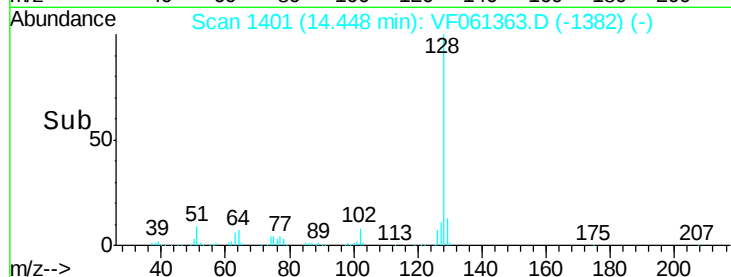
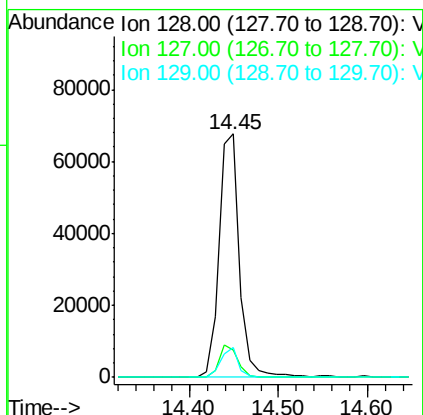
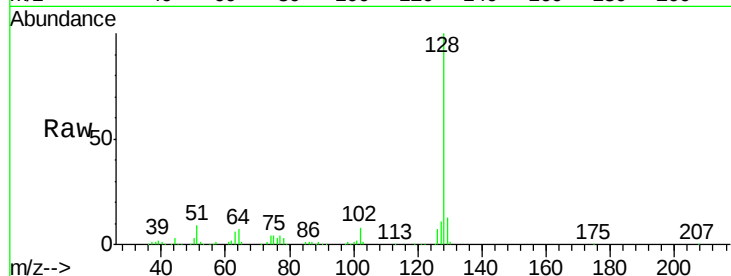




#95
Naphthalene
Concen: 17.606 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion:128 Resp: 109104
Ion Ratio Lower Upper
128 100
127 11.0 9.4 14.0
129 12.5 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 18.773 ug/l
RT: 14.59 min Scan# 1415
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion:180 Resp: 58150
Ion Ratio Lower Upper
180 100
182 93.5 46.5 139.3
145 40.4 17.5 52.6

