

Data File : VF060709.D
Acq On : 13 Nov 2018 12:35
Operator : VA/AP
Sample : VSTDIC020
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Quant Time: Nov 14 02:45:10 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 02:40:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	234572	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	385527	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.79	117	359251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	201995	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	55028	20.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.14%	
35) Dibromofluoromethane	4.13	113	62009	21.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.80%	
50) Toluene-d8	7.57	98	198431	23.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.42%	
62) 4-Bromofluorobenzene	11.43	95	83653	21.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.74%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.96	85	92951	22.142 ug/l	96
3) Chloromethane	1.09	50	53717	20.633 ug/l	91
4) Vinyl Chloride	1.14	62	46014	19.757 ug/l	98
5) Bromomethane	1.33	94	30262	20.455 ug/l	96
6) Chloroethane	1.38	64	16691	18.317 ug/l	98
7) Trichlorofluoromethane	1.49	101	100731	19.546 ug/l	99
8) Diethyl Ether	1.63	74	12384	18.767 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.82	101	48685	20.060 ug/l #	90
10) Methyl Iodide	1.89	142	76725	20.553 ug/l #	84
11) Tert butyl alcohol	2.58	59	12425	102.039 ug/l	95
12) 1,1-Dichloroethene	1.79	96	37871	19.789 ug/l	91
13) Acrolein	2.01	56	12165	109.262 ug/l #	68
14) Allyl chloride	2.10	41	65480	19.531 ug/l	98
15) Acrylonitrile	2.94	53	26072	100.482 ug/l	92
16) Acetone	2.24	43	51941	90.824 ug/l	100
17) Carbon Disulfide	1.83	76	88556	15.321 ug/l	94
18) Methyl Acetate	2.35	43	18084	17.725 ug/l	94
19) Methyl tert-butyl Ether	2.44	73	92996	20.256 ug/l	99
20) Methylene Chloride	2.18	84	17592	8.133 ug/l	98
21) trans-1,2-Dichloroethene	2.31	96	38767	19.389 ug/l	95
22) Diisopropyl ether	2.81	45	131926	20.382 ug/l	100
23) Vinyl Acetate	3.20	43	309258	101.463 ug/l	100
24) 1,1-Dichloroethane	2.89	63	77215	19.704 ug/l	99
25) 2-Butanone	4.35	43	92533	98.371 ug/l	96
26) 2,2-Dichloropropane	3.61	77	62833	20.376 ug/l	95
27) cis-1,2-Dichloroethene	3.49	96	67182	19.752 ug/l	98
28) Bromochloromethane	3.73	49	40174	19.727 ug/l	98
29) Tetrahydrofuran	4.08	42	37980	97.886 ug/l	99
30) Chloroform	3.87	83	124234	19.759 ug/l	96
31) Cyclohexane	3.70	56	98235	20.655 ug/l	98
32) 1,1,1-Trichloroethane	4.11	97	105079	21.223 ug/l	98
36) 1,1-Dichloropropene	4.30	75	93862	20.993 ug/l	98
37) Ethyl Acetate	4.12	43	35439	21.319 ug/l #	93
38) Carbon Tetrachloride	4.01	117	94105	21.691 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	107592	20.742	ug/l	99
40) Benzene	4.64	78	205629	20.631	ug/l	98
41) Methacrylonitrile	4.76	41	19141	19.008	ug/l #	91
42) 1,2-Dichloroethane	4.96	62	70706	20.529	ug/l	99
43) Isopropyl Acetate	6.97	43	46295	21.005	ug/l #	98
44) Trichloroethene	5.52	130	67289	21.398	ug/l	95
45) 1,2-Dichloropropane	6.25	63	52701	20.320	ug/l	98
46) Dibromomethane	6.10	93	36226	21.160	ug/l	90
47) Bromodichloromethane	6.40	83	90982	20.811	ug/l	95
48) Methyl methacrylate	6.73	41	31145	21.352	ug/l	96
49) 1,4-Dioxane	6.72	88	6112	448.035	ug/l	92
51) 4-Methyl-2-Pentanone	8.27	43	170056	106.683	ug/l	100
52) Toluene	7.64	92	138653	20.759	ug/l	92
53) t-1,3-Dichloropropene	8.29	75	76702	21.905	ug/l	93
54) cis-1,3-Dichloropropene	7.31	75	95208	20.932	ug/l	95
55) 1,1,2-Trichloroethane	8.51	97	40672	21.313	ug/l	94
56) Ethyl methacrylate	8.64	69	49794	22.975	ug/l	99
57) 1,3-Dichloropropane	8.87	76	72835	22.023	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.63	63	19202	96.989	ug/l	100
59) 2-Hexanone	9.50	43	123279	110.047	ug/l	100
60) Dibromochloromethane	8.72	129	58155	21.383	ug/l	87
61) 1,2-Dibromoethane	9.00	107	41444	20.650	ug/l	99
64) Tetrachloroethene	8.17	164	60006	21.093	ug/l	92
65) Chlorobenzene	9.81	112	153587	21.186	ug/l	94
66) 1,1,1,2-Tetrachloroethane	9.95	131	65275	20.644	ug/l	97
67) Ethyl Benzene	9.92	91	291390	21.324	ug/l	96
68) m/p-Xylenes	10.15	106	208779	42.753	ug/l	93
69) o-Xylene	10.73	106	115671	21.068	ug/l	95
70) Styrene	10.81	104	154234	20.699	ug/l	97
71) Bromoform	10.79	173	29214	20.546	ug/l	99
73) Isopropylbenzene	11.14	105	347112	21.349	ug/l	98
74) N-amyl acetate	11.38	43	80200	21.667	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	55627	20.694	ug/l	98
76) 1,2,3-Trichloropropane	11.80	75	43756	21.917	ug/l	94
77) Bromobenzene	11.51	156	70893	20.947	ug/l	96
78) n-propylbenzene	11.61	91	418635	22.077	ug/l	97
79) 2-Chlorotoluene	11.73	91	236638	21.471	ug/l	99
80) 1,3,5-Trimethylbenzene	11.84	105	252397	19.553	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.88	75	27366	28.570	ug/l	98
82) 4-Chlorotoluene	11.91	91	244912	21.691	ug/l	97
83) tert-Butylbenzene	12.14	119	294984	21.523	ug/l	97
84) 1,2,4-Trimethylbenzene	12.22	105	273977	20.522	ug/l	94
85) sec-Butylbenzene	12.32	105	398493	21.433	ug/l	96
86) p-Isopropyltoluene	12.47	119	326294	21.013	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	144440	21.446	ug/l	96
88) 1,4-Dichlorobenzene	12.58	146	134662	20.803	ug/l	92
89) n-Butylbenzene	12.86	91	352083	22.218	ug/l	95
90) Hexachloroethane	12.93	117	83231	21.915	ug/l	89
91) 1,2-Dichlorobenzene	12.96	146	132164	20.841	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.66	75	9768	19.333	ug/l #	54

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111318\
Quantitation Report (Not Reviewed)

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ClientSampleId :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	98128	21.528	ug/l	97
94) Hexachlorobutadiene	14.20	225	63926	21.462	ug/l	98
95) Naphthalene	14.47	128	163696	19.682	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	86960	20.646	ug/l	99

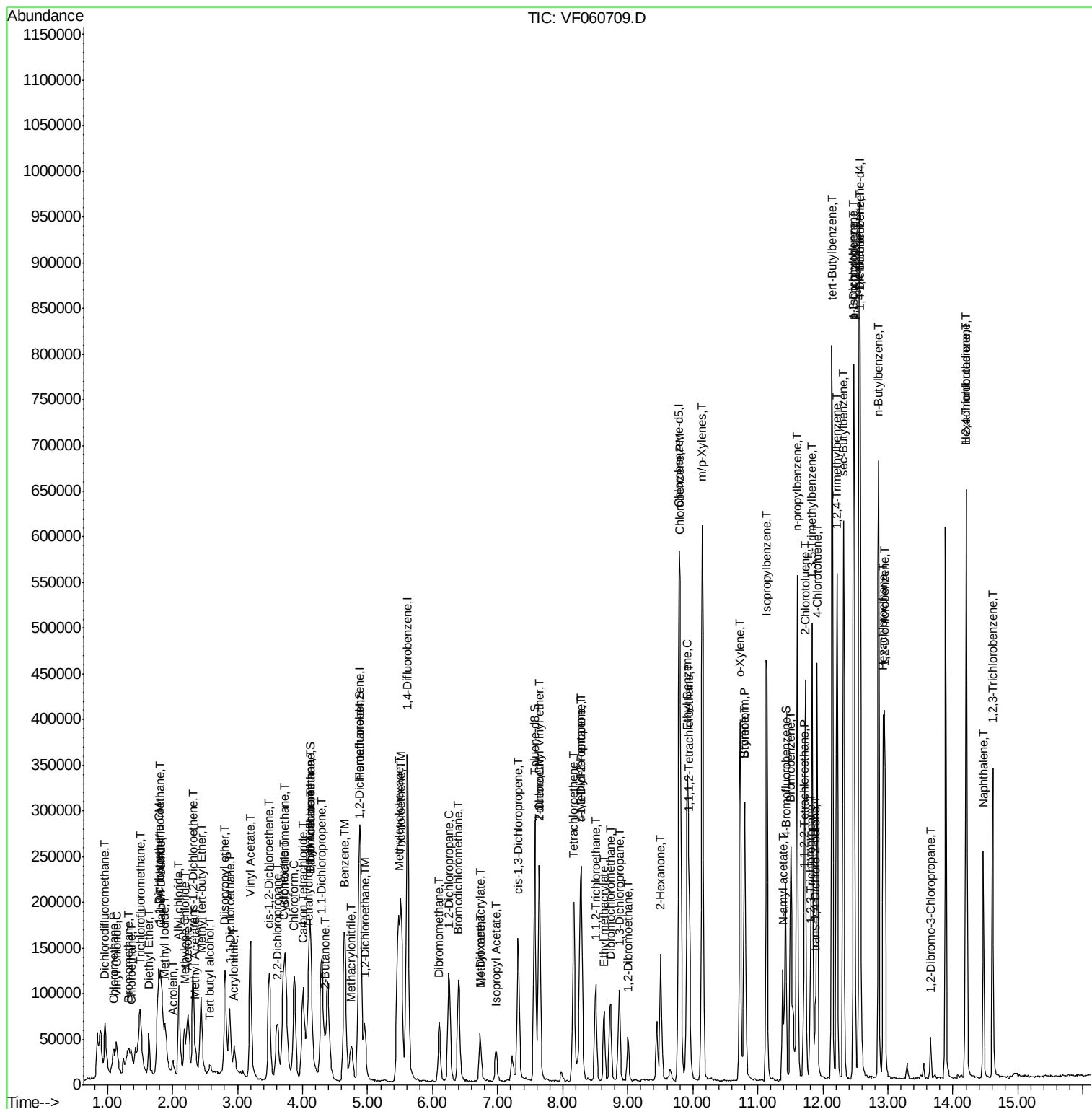
(#) = qualifier out of range (m) = manual integration (+) = signals summed

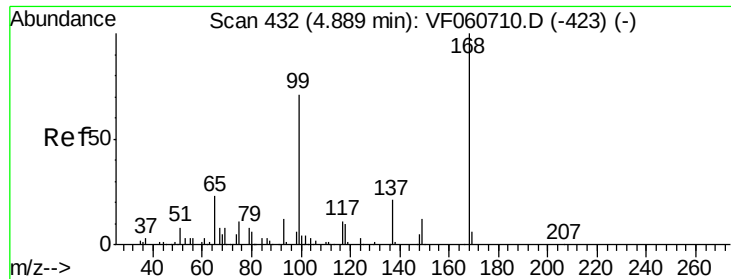
Data File : VF060709.D

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Operator     : VA/AP
Sample       : VSTDIC020
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Instrument :
MSVOA_F
ClientSampleId :
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Quant Time: Nov 14 02:45:10 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

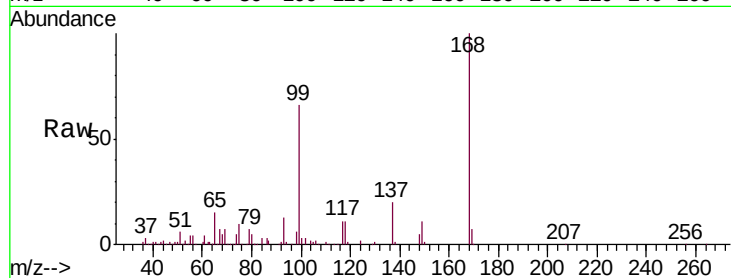
VSTDIC020

Tgt Ion:168 Resp: 234572

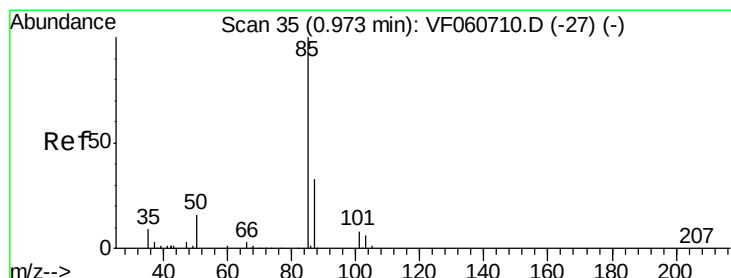
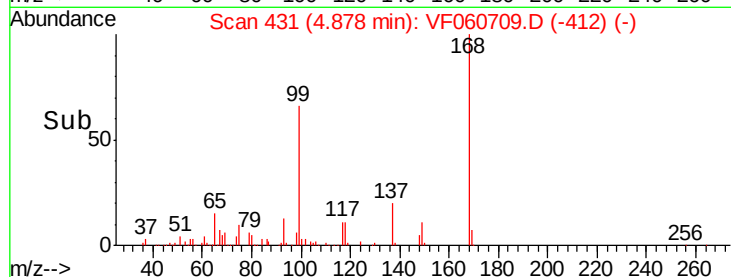
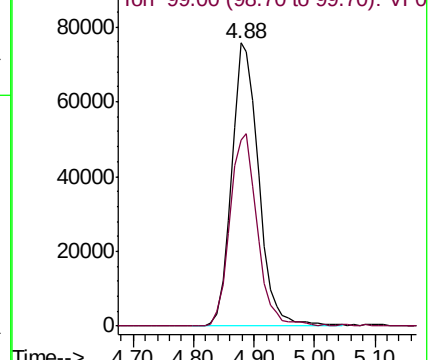
Ion Ratio Lower Upper

168 100

99 65.6 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF060710.D (-423) (-)



#2

Dichlorodifluoromethane

Concen: 22.142 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060709.D

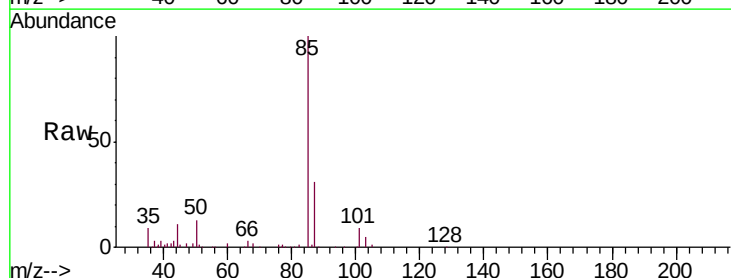
Acq: 13 Nov 2018 12:35

Tgt Ion: 85 Resp: 92951

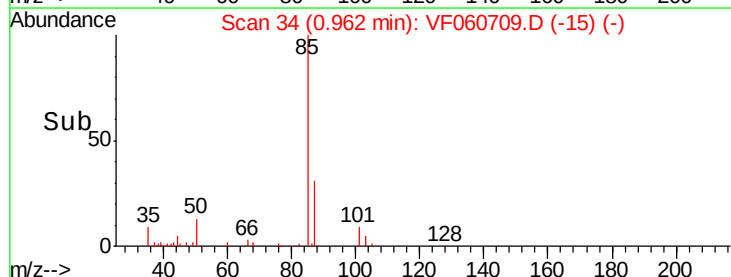
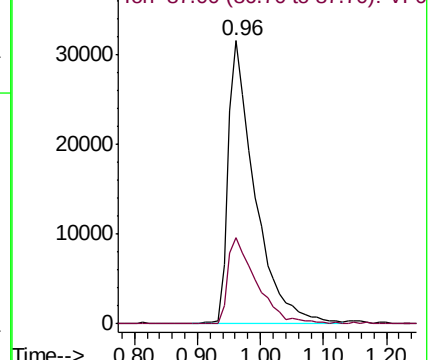
Ion Ratio Lower Upper

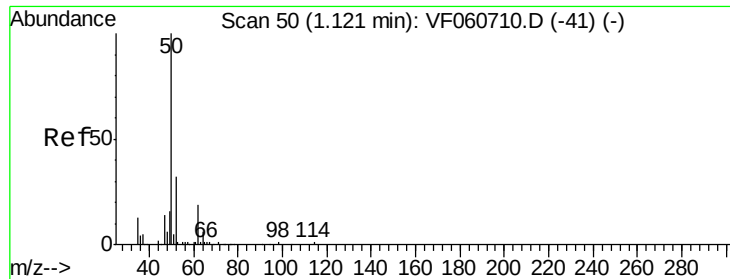
85 100

87 30.6 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF060710.D (-27) (-)





#3

Chloromethane

Concen: 20.633 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.03 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

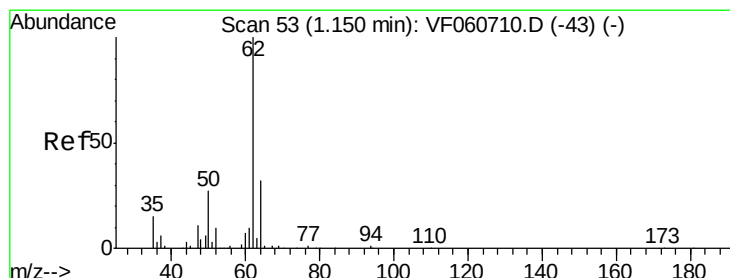
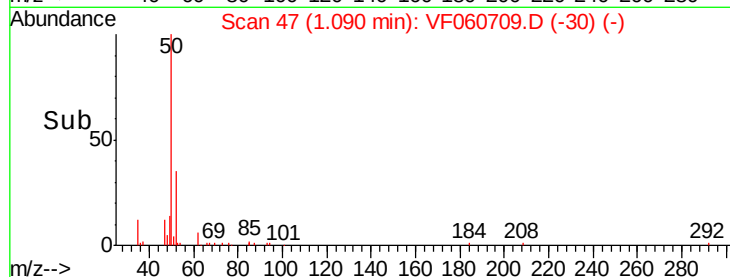
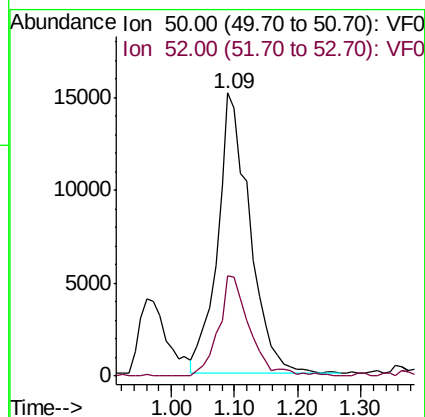
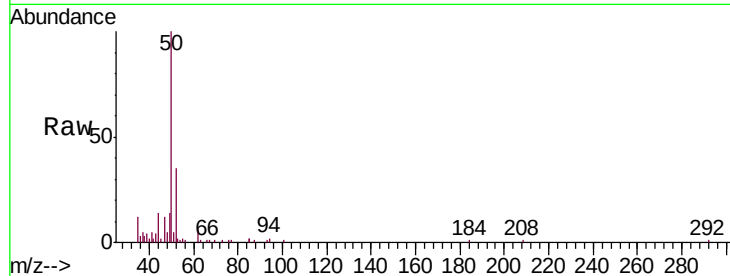
VSTDIC020

Tgt Ion: 50 Resp: 53717

Ion Ratio Lower Upper

50 100

52 35.3 24.2 36.2



#4

Vinyl Chloride

Concen: 19.757 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060709.D

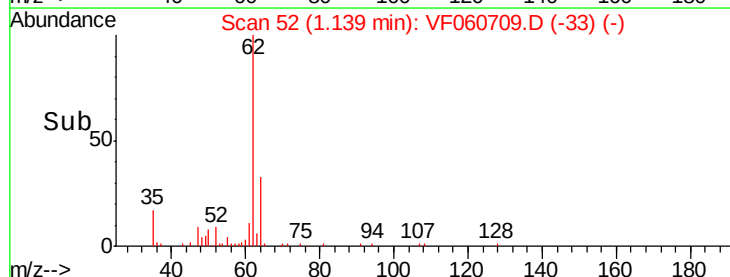
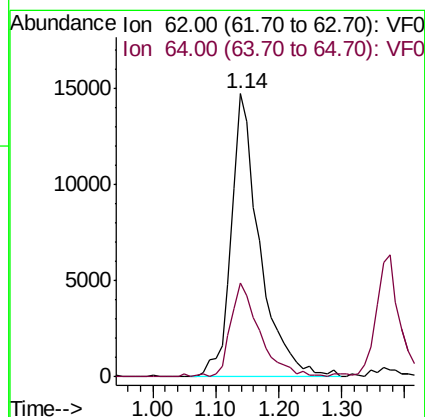
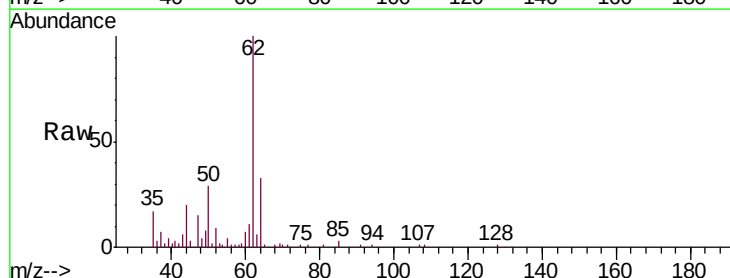
Acq: 13 Nov 2018 12:35

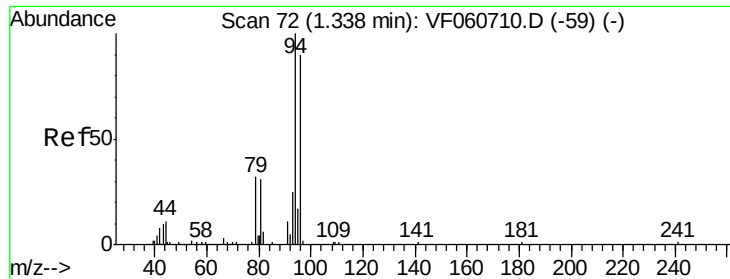
Tgt Ion: 62 Resp: 46014

Ion Ratio Lower Upper

62 100

64 33.3 25.8 38.8





#5

Bromomethane

Concen: 20.455 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

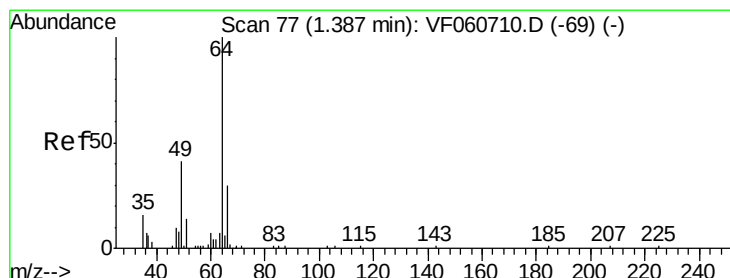
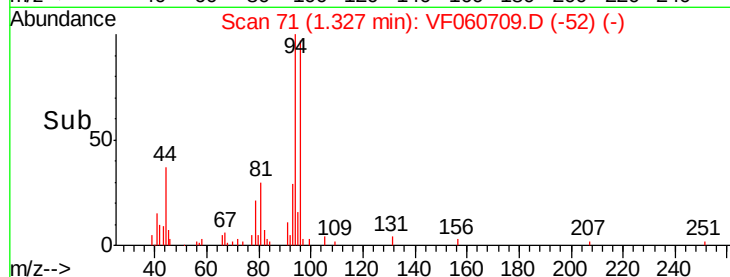
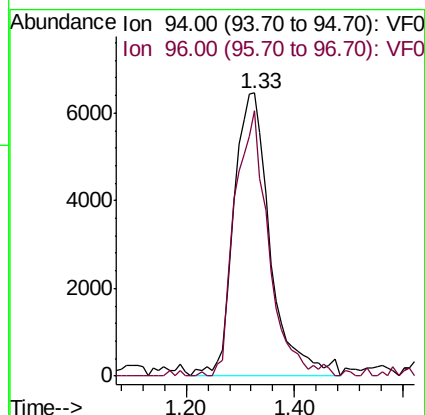
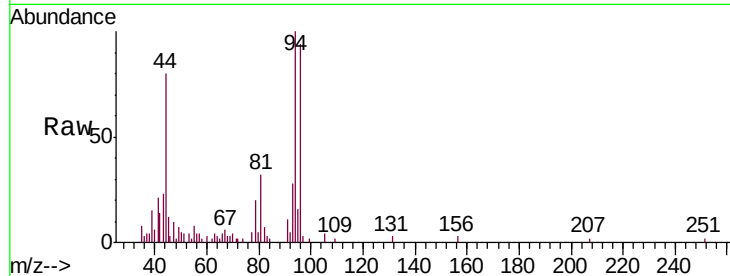
VSTDIC020

Tgt Ion: 94 Resp: 30262

Ion Ratio Lower Upper

94 100

96 93.9 71.9 107.9



#6

Chloroethane

Concen: 18.317 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF060709.D

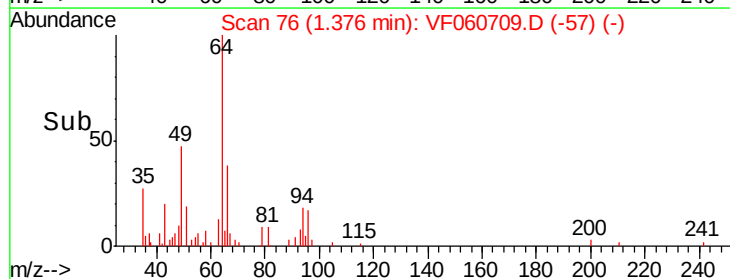
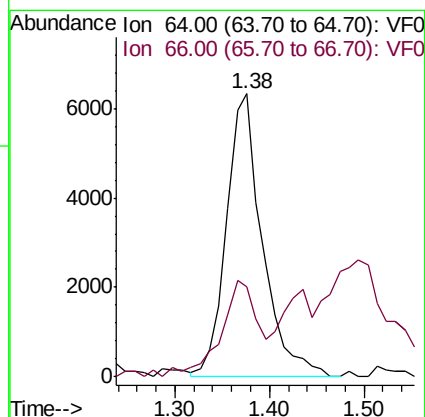
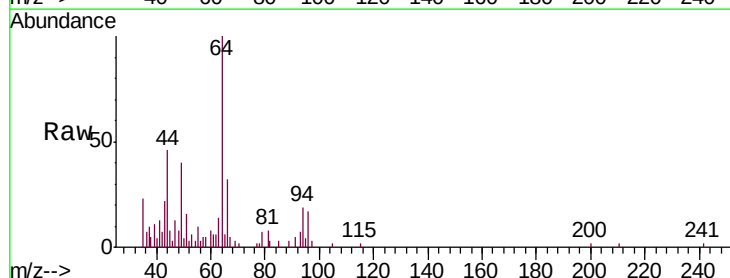
Acq: 13 Nov 2018 12:35

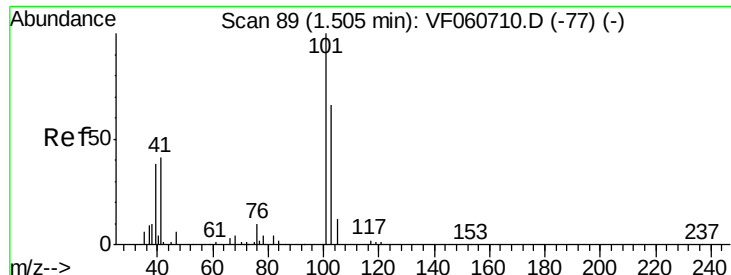
Tgt Ion: 64 Resp: 16691

Ion Ratio Lower Upper

64 100

66 32.0 24.8 37.2





#7

Trichlorofluoromethane

Concen: 19.546 ug/l

RT: 1.49 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF060709.D

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Instrument :

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ClientSampleId :

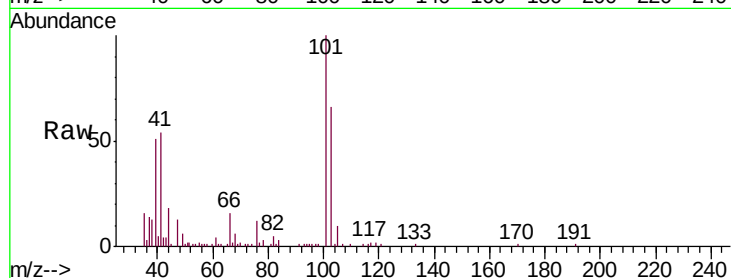
VSTDIC020

Tgt Ion:101 Resp: 100731

Ion Ratio Lower Upper

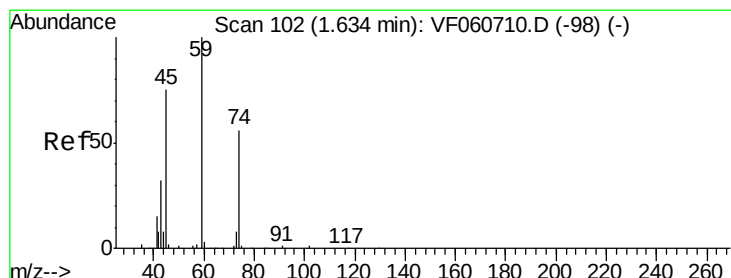
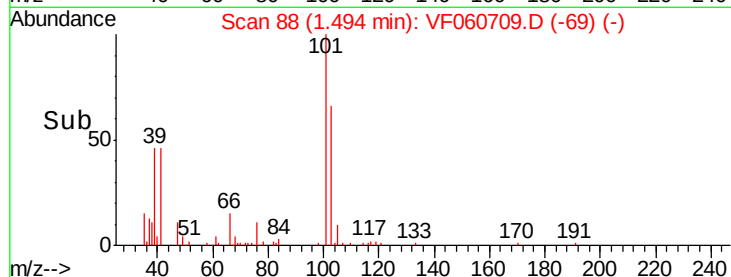
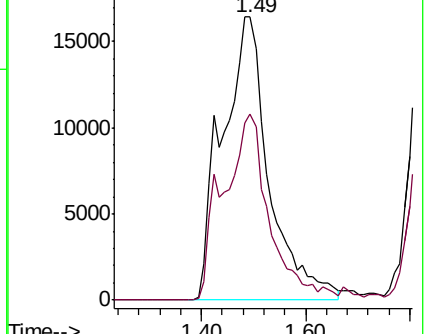
101 100

103 65.9 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 18.767 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF060709.D

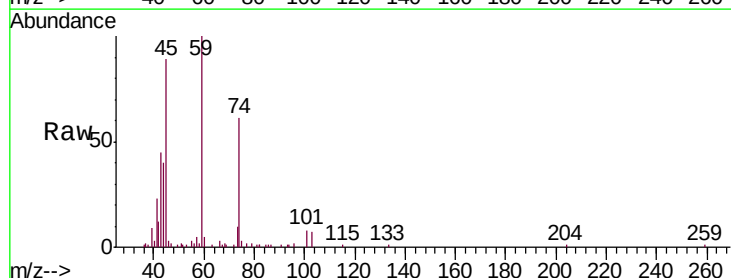
Acq: 13 Nov 2018 12:35

Tgt Ion: 74 Resp: 12384

Ion Ratio Lower Upper

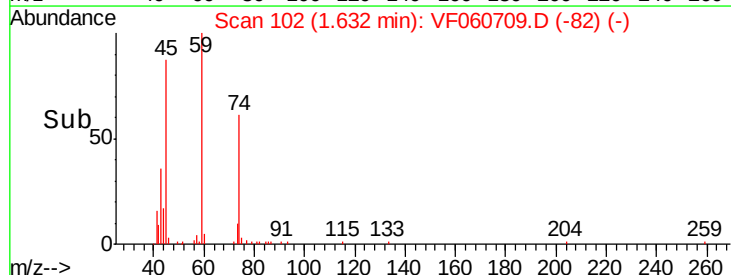
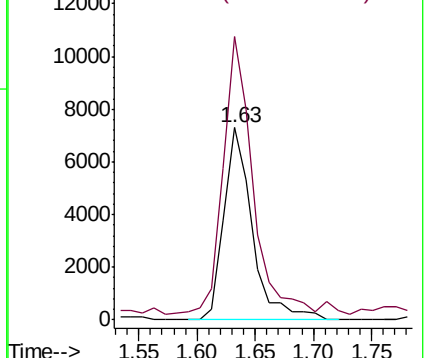
74 100

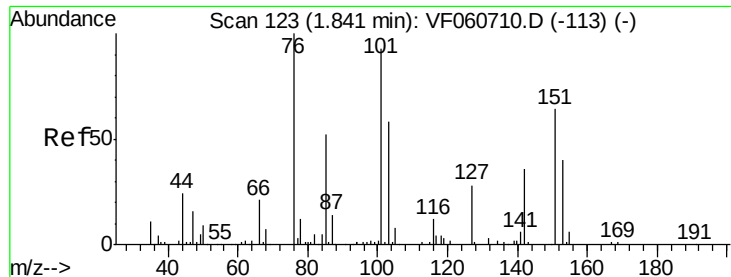
45 147.3 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.060 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

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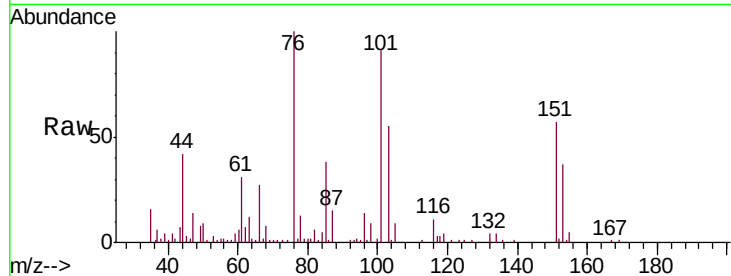
Tgt Ion:101 Resp: 48685

Ion Ratio Lower Upper

101 100

85 42.4 43.6 65.4#

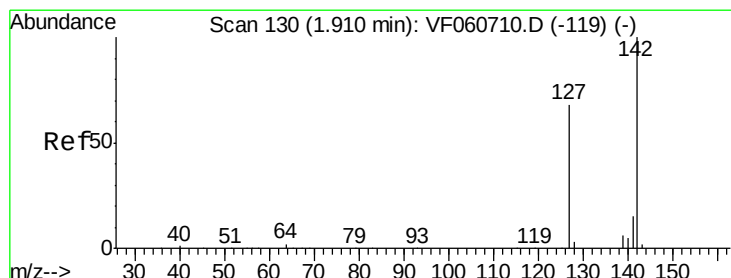
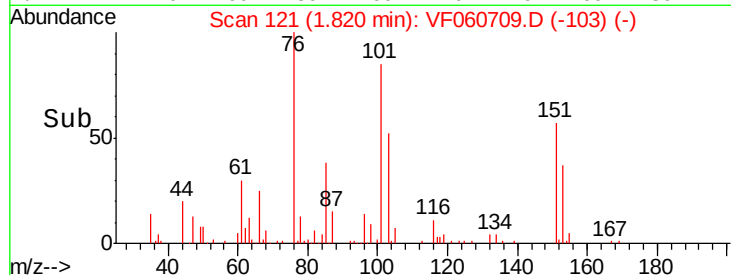
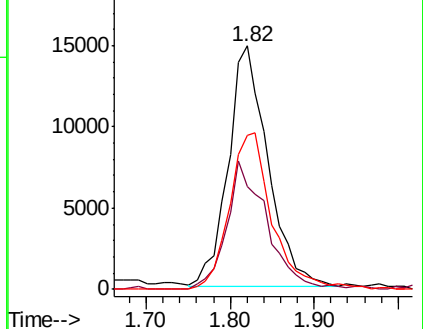
151 63.4 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 20.553 ug/l

RT: 1.89 min Scan# 128

Delta R.T. -0.02 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

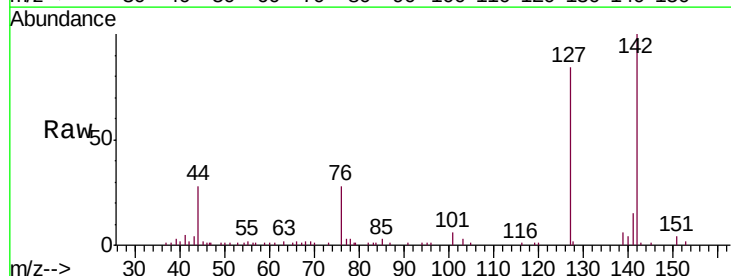
Tgt Ion:142 Resp: 76725

Ion Ratio Lower Upper

142 100

127 83.6 54.0 81.0#

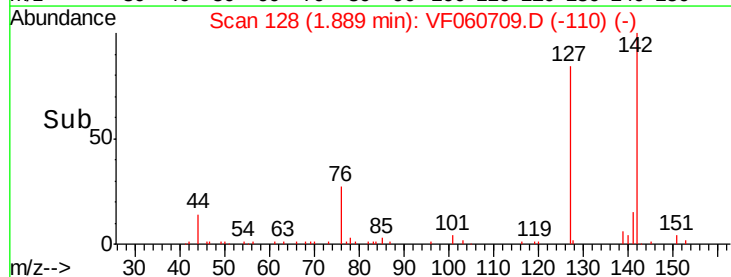
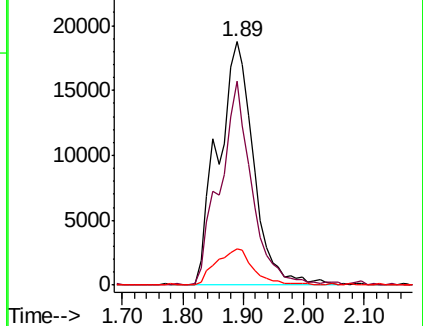
141 15.1 12.3 18.5

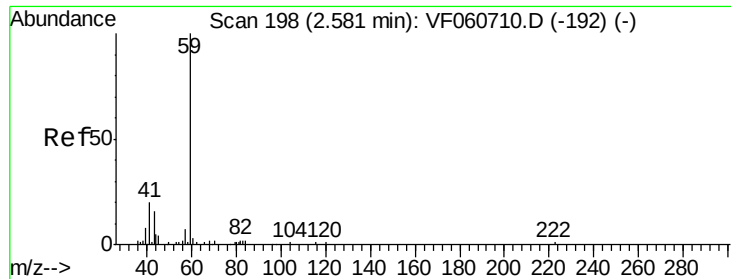


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

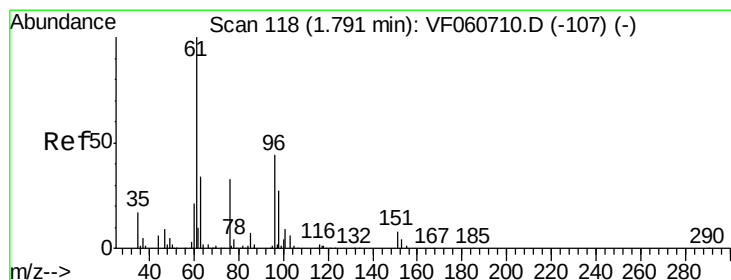
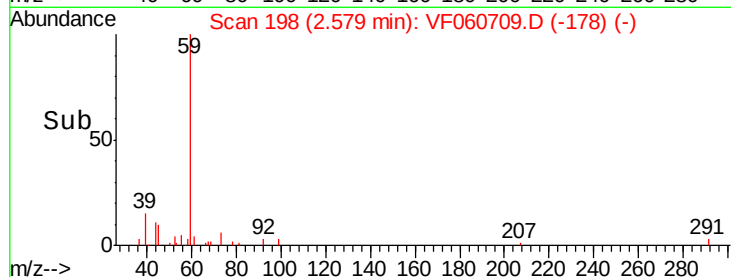
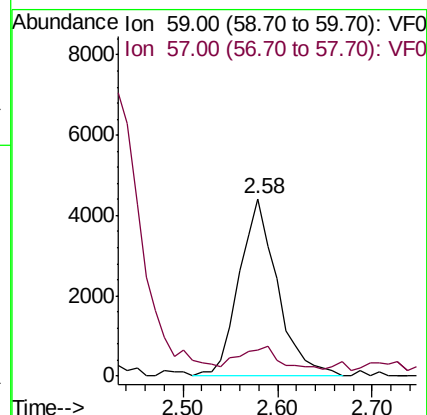
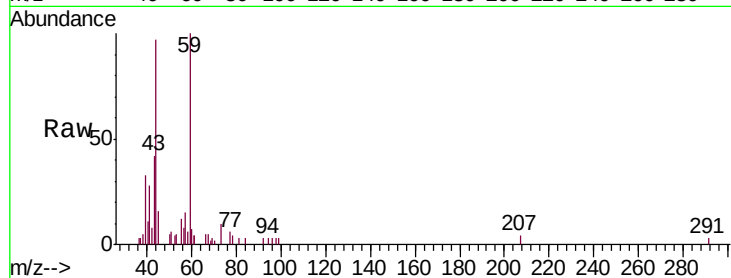




#11
Tert butyl alcohol
Concen: 102.039 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

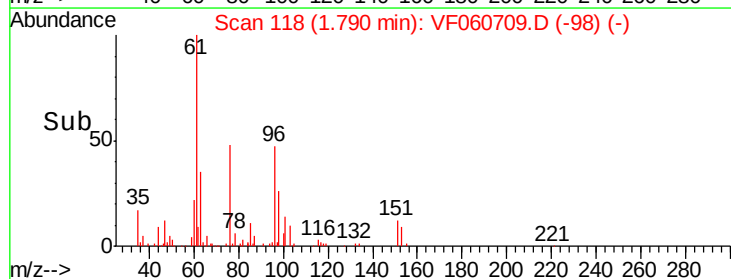
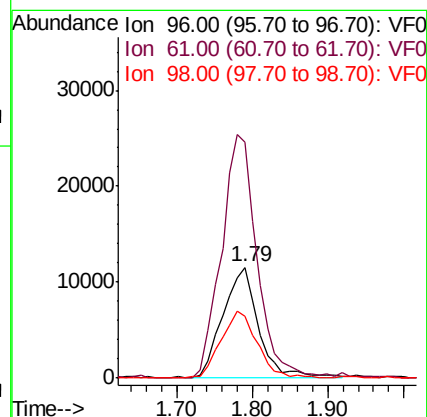
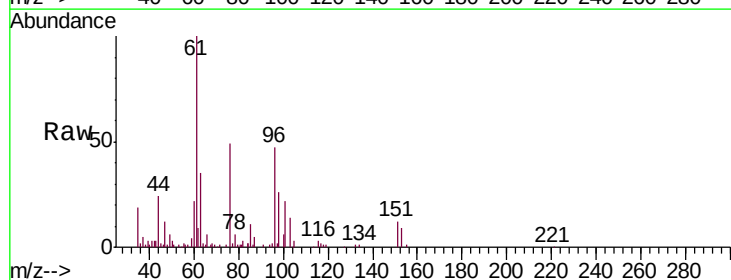
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

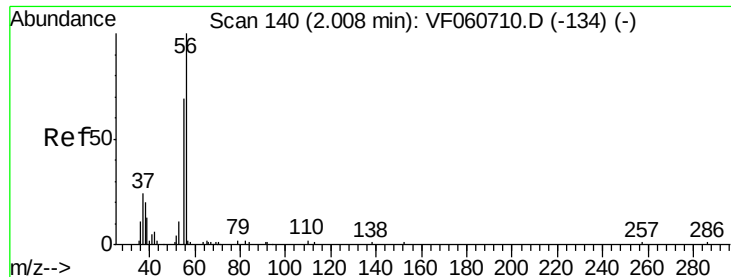
Tgt Ion: 59 Resp: 12425
Ion Ratio Lower Upper
59 100
57 15.1 10.5 15.7



#12
1,1-Dichloroethene
Concen: 19.789 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion: 96 Resp: 37871
Ion Ratio Lower Upper
96 100
61 212.9 182.2 273.2
98 55.9 49.2 73.8





#13

Acrolein

Concen: 109.262 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

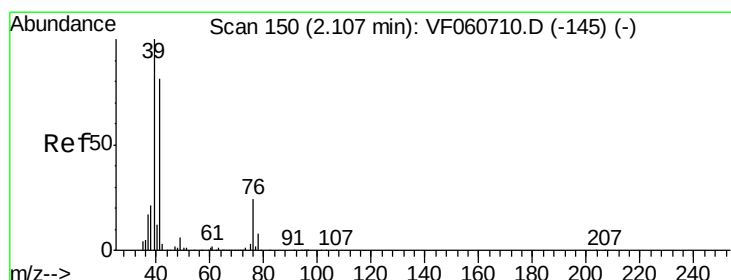
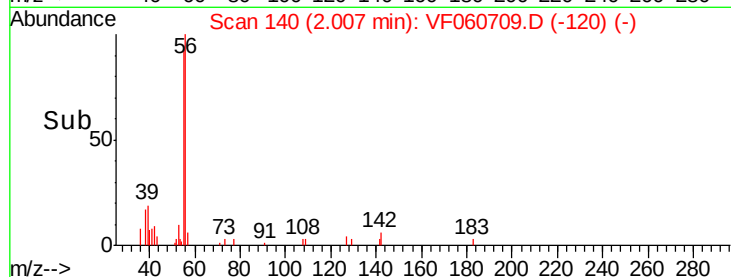
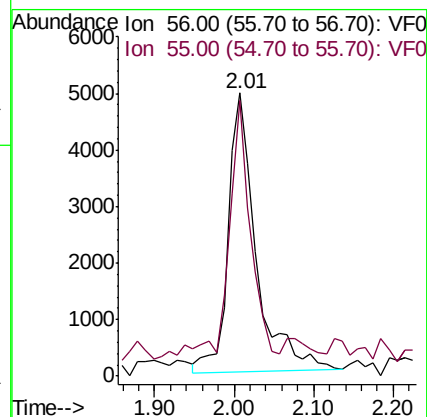
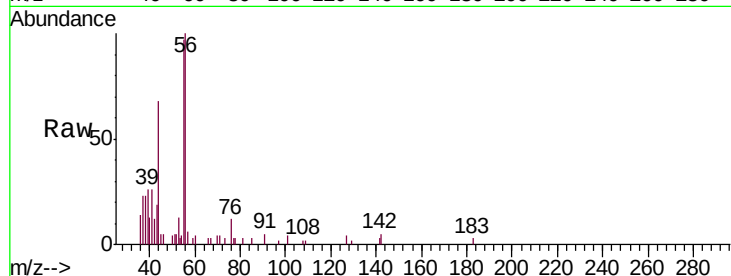
VSTDIC020

Tgt Ion: 56 Resp: 12165

Ion Ratio Lower Upper

56 100

55 97.3 56.6 85.0#



#14

Allyl chloride

Concen: 19.531 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

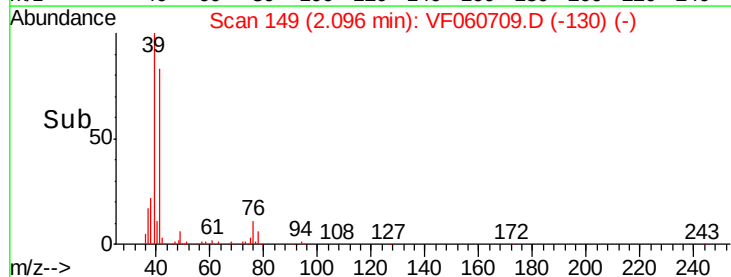
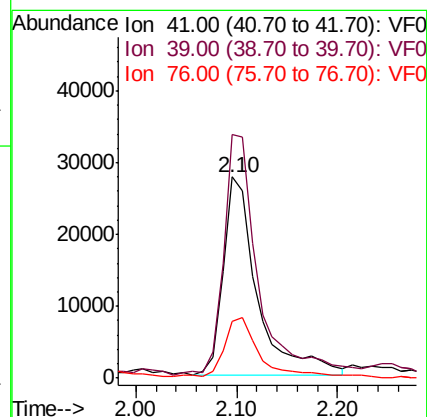
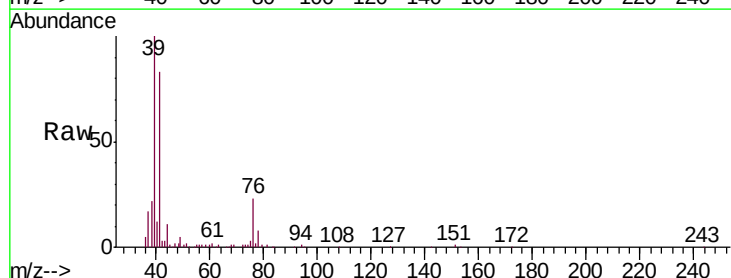
Tgt Ion: 41 Resp: 65480

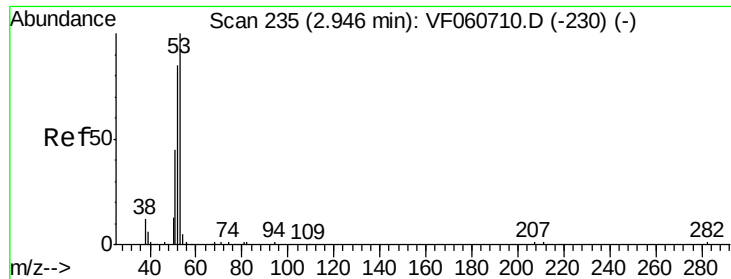
Ion Ratio Lower Upper

41 100

39 121.1 98.5 147.7

76 28.0 24.5 36.7

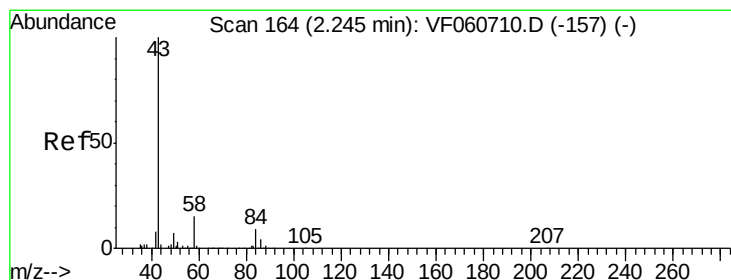
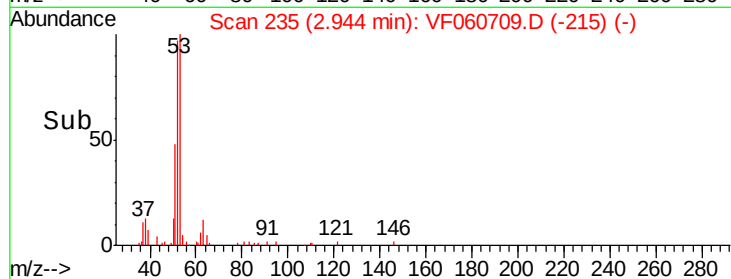
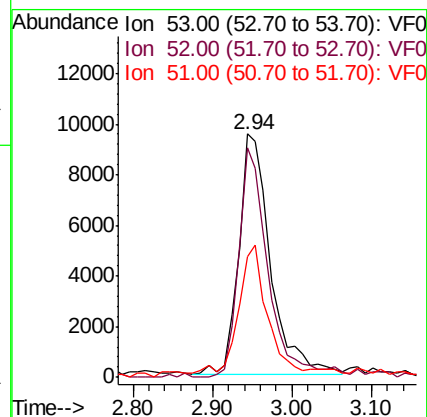
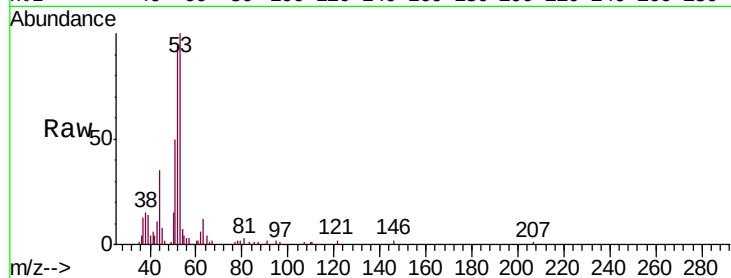




#15
 Acrylonitrile
 Concen: 100.482 ug/l
 RT: 2.94 min Scan# 235
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

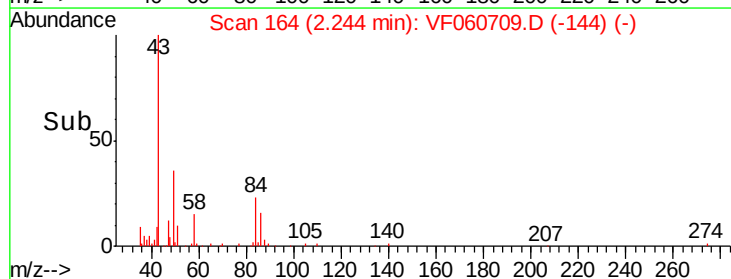
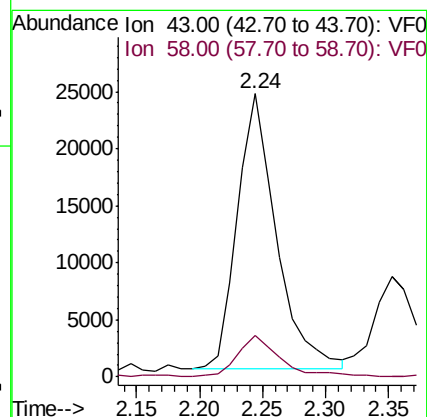
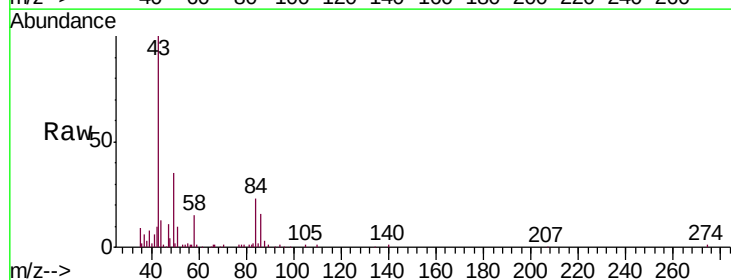
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

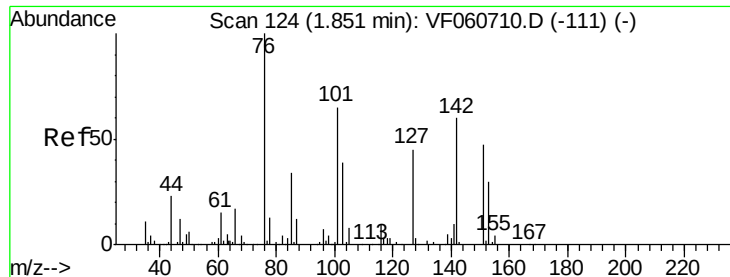
Tgt Ion:	53	Resp:	26072
Ion	Ratio	Lower	Upper
53	100		
52	94.5	68.8	103.2
51	49.6	36.7	55.1



#16
 Acetone
 Concen: 90.824 ug/l
 RT: 2.24 min Scan# 164
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion:	43	Resp:	51941
Ion	Ratio	Lower	Upper
43	100		
58	14.6	11.6	17.4





#17

Carbon Disulfide

Concen: 15.321 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.02 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

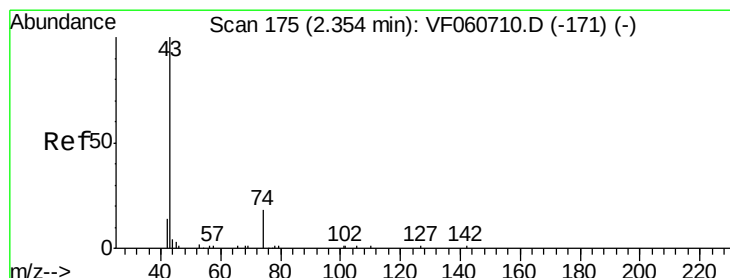
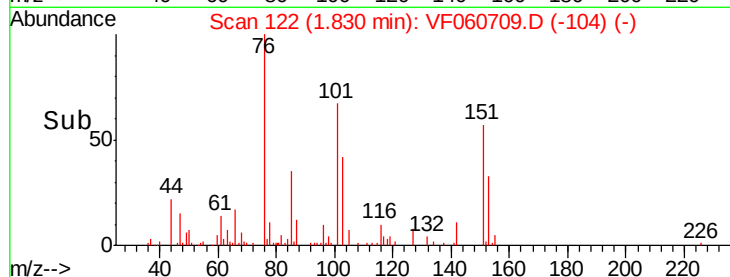
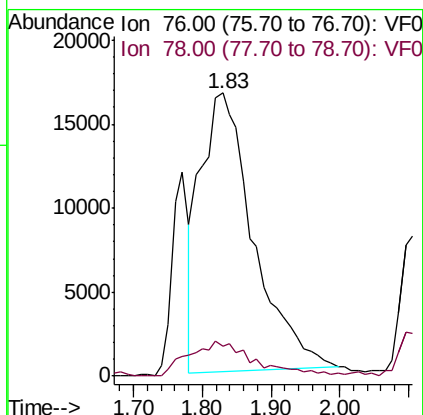
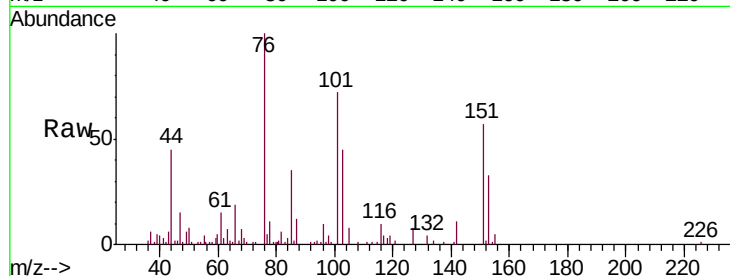
VSTDIC020

Tgt Ion: 76 Resp: 88556

Ion Ratio Lower Upper

76 100

78 10.7 10.5 15.7



#18

Methyl Acetate

Concen: 17.725 ug/l

RT: 2.35 min Scan# 175

Delta R.T. -0.00 min

Lab File: VF060709.D

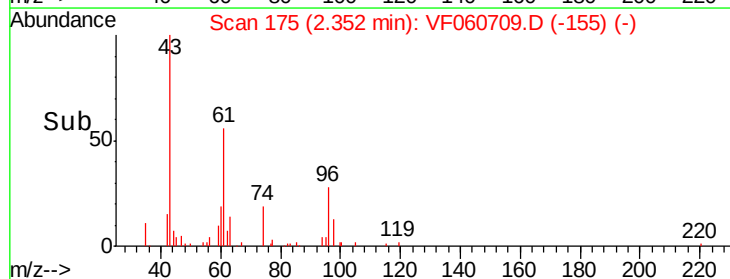
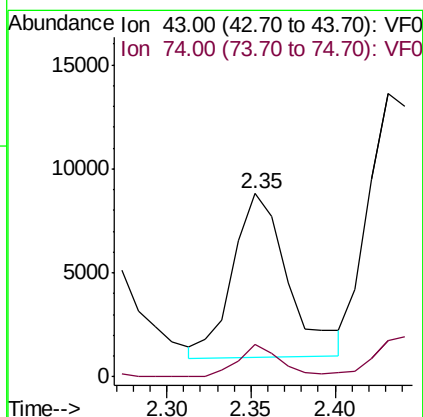
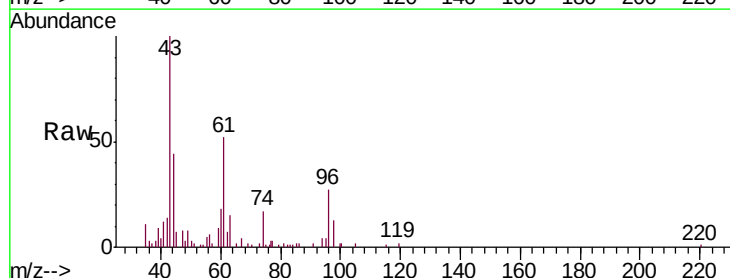
Acq: 13 Nov 2018 12:35

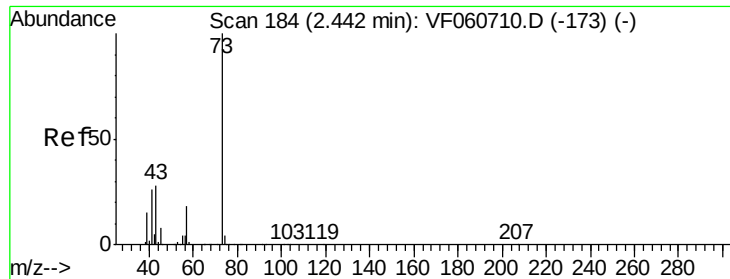
Tgt Ion: 43 Resp: 18084

Ion Ratio Lower Upper

43 100

74 17.5 11.8 17.8



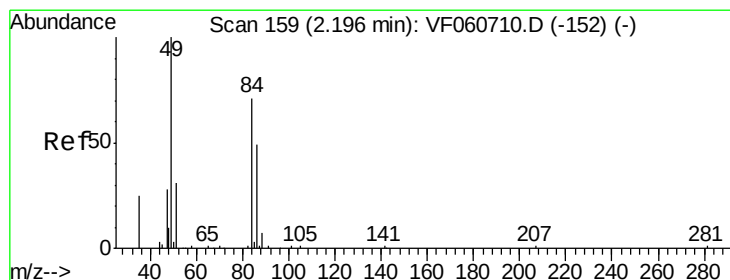
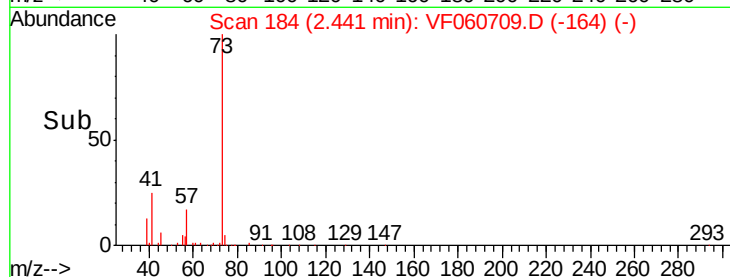
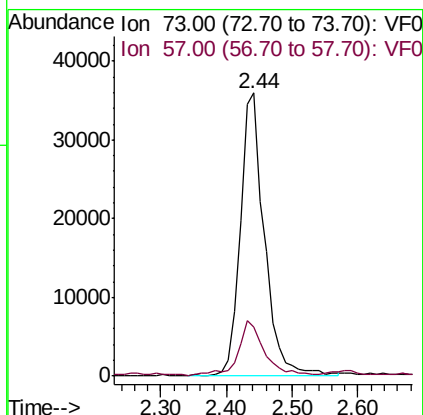
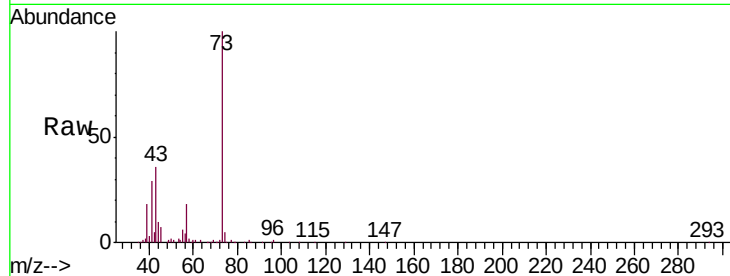


#19

Methyl tert-butyl Ether
Concen: 20.256 ug/l
RT: 2.44 min Scan# 184
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

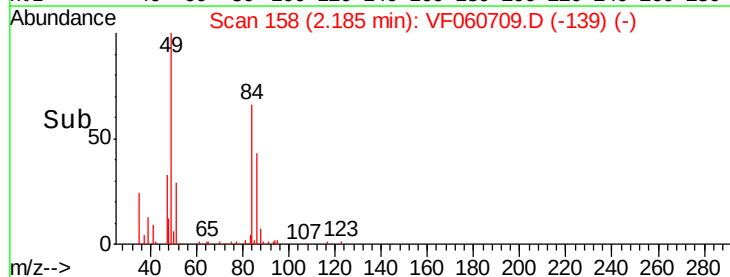
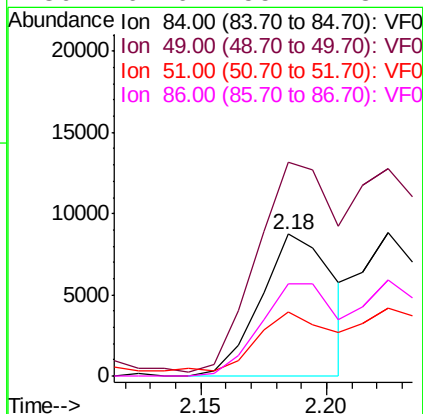
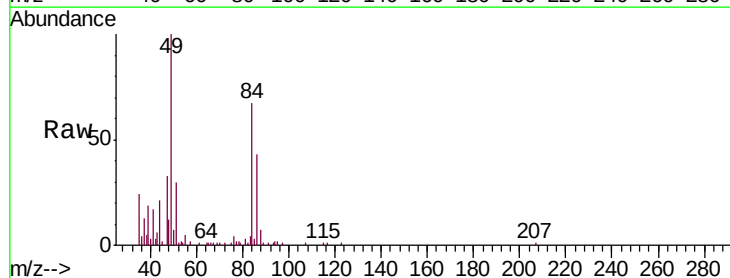
Tgt Ion: 73 Resp: 92996
Ion Ratio Lower Upper
73 100
57 17.5 14.3 21.5

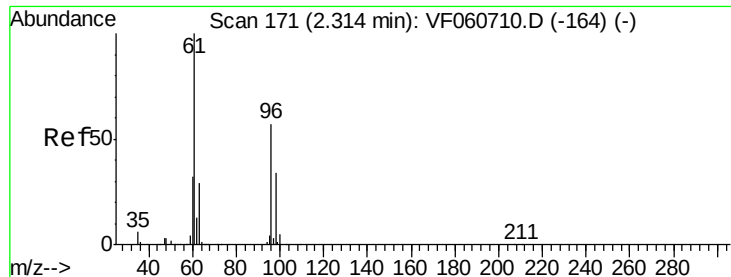


#20

Methylene Chloride
Concen: 8.133 ug/l
RT: 2.18 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion: 84 Resp: 17592
Ion Ratio Lower Upper
84 100
49 150.3 120.2 180.4
51 44.7 37.2 55.8
86 64.6 55.1 82.7





#21

trans-1,2-Dichloroethene

Concen: 19.389 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

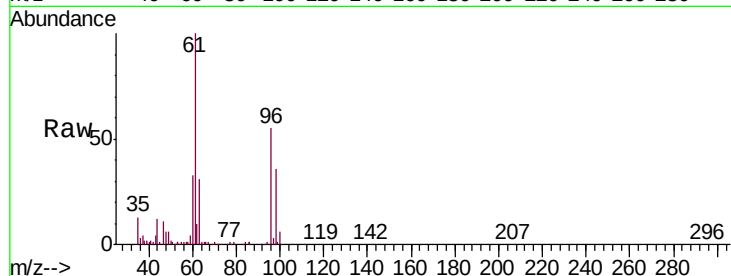
Tgt Ion: 96 Resp: 38767

Ion Ratio Lower Upper

96 100

61 182.6 141.6 212.4

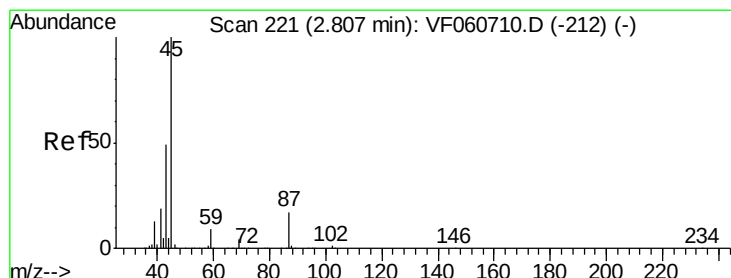
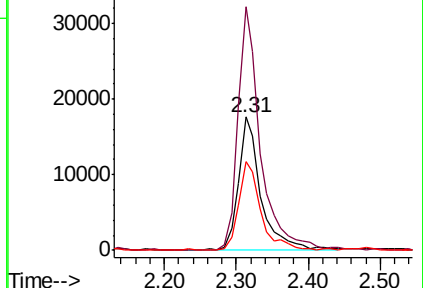
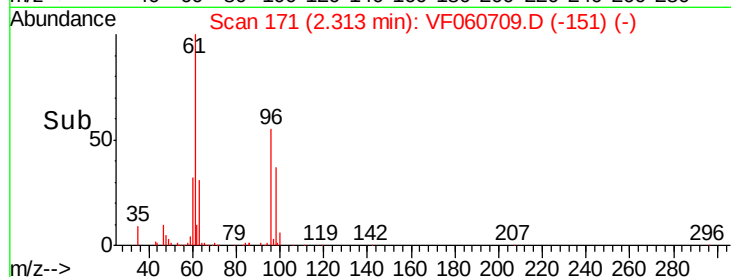
98 66.2 47.4 71.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 20.382 ug/l

RT: 2.81 min Scan# 221

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Tgt Ion: 45 Resp: 131926

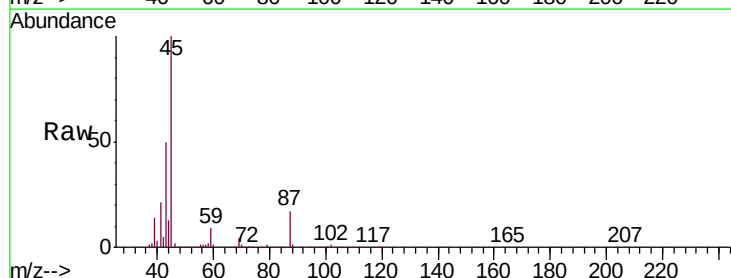
Ion Ratio Lower Upper

45 100

43 49.6 39.9 59.9

87 16.9 13.9 20.9

59 8.9 7.1 10.7

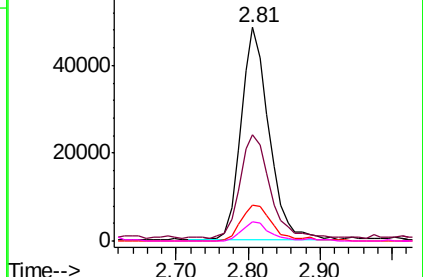
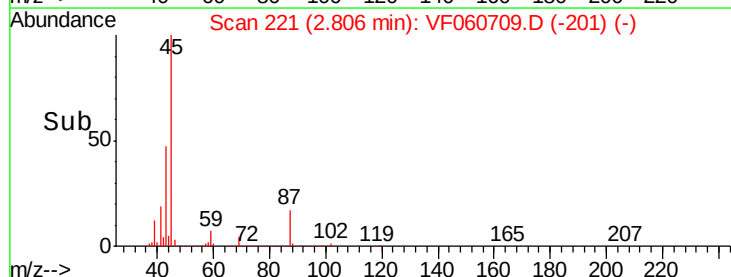


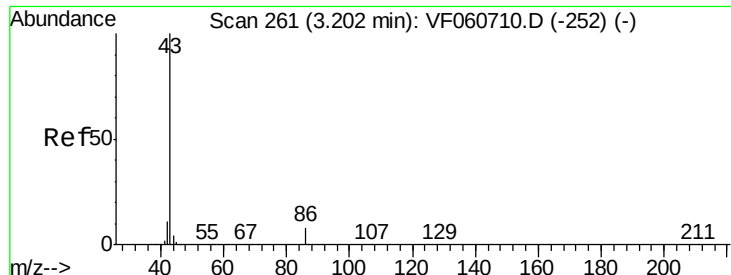
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 101.463 ug/l

RT: 3.20 min Scan# 261

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

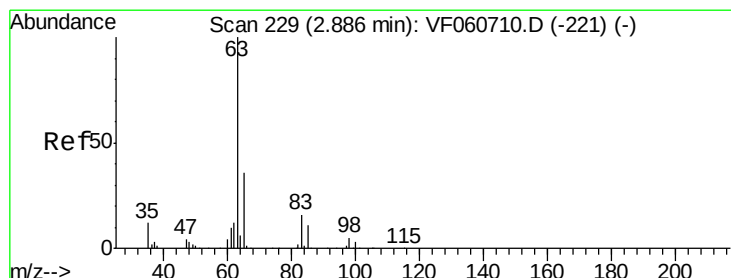
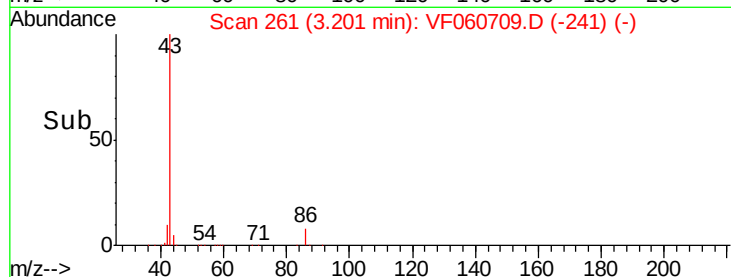
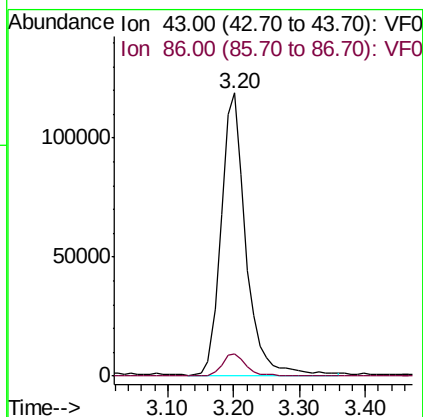
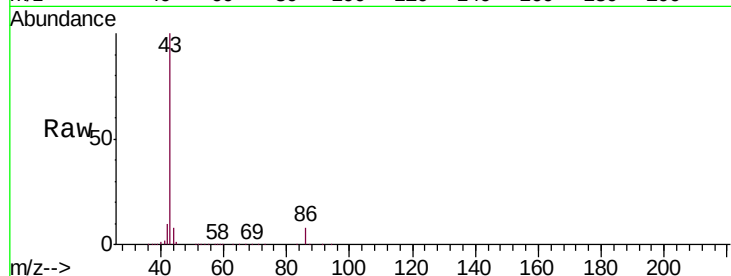
VSTDIC020

Tgt Ion: 43 Resp: 309258

Ion Ratio Lower Upper

43 100

86 7.9 6.4 9.6



#24

1,1-Dichloroethane

Concen: 19.704 ug/l

RT: 2.89 min Scan# 229

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

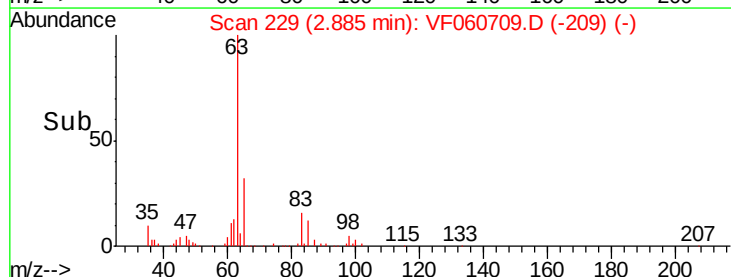
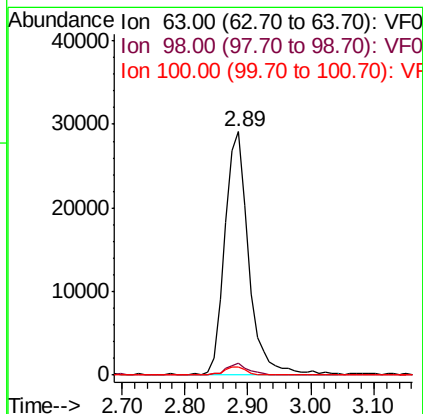
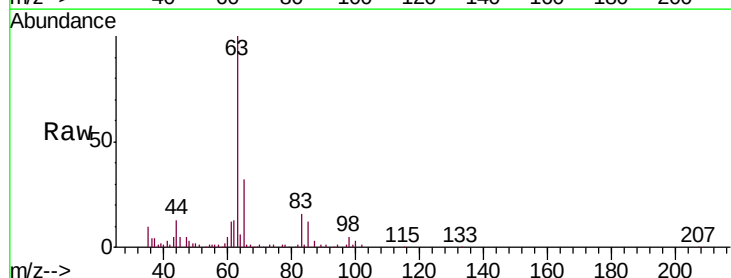
Tgt Ion: 63 Resp: 77215

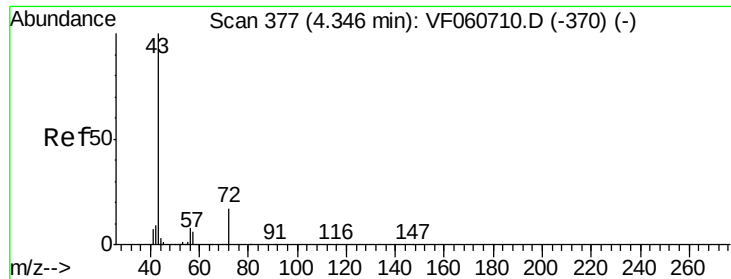
Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.1

100 3.2 1.4 4.2





#25

2-Butanone

Concen: 98.371 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

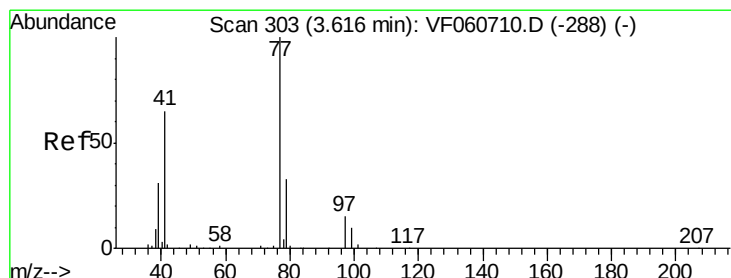
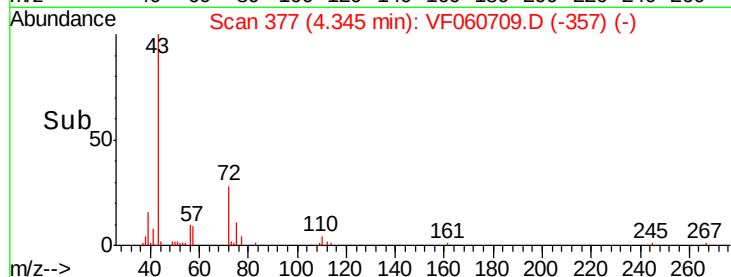
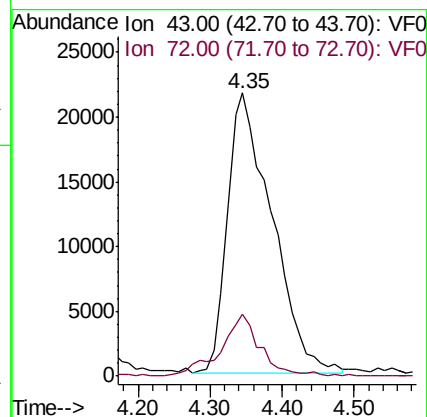
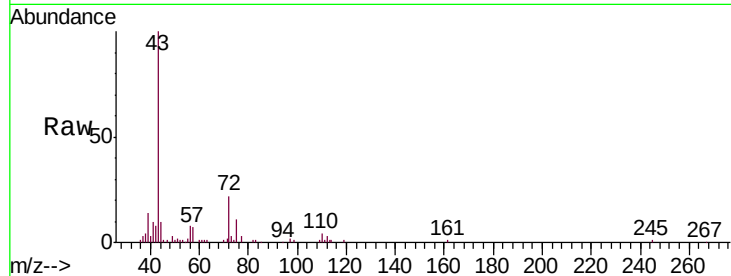
VSTDIC020

Tgt Ion: 43 Resp: 92533

Ion Ratio Lower Upper

43 100

72 21.7 16.1 24.1



#26

2,2-Dichloropropane

Concen: 20.376 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.01 min

Lab File: VF060709.D

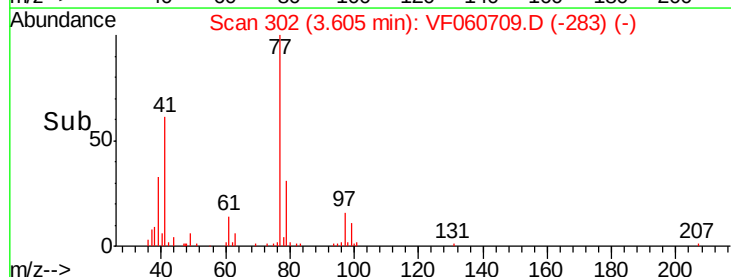
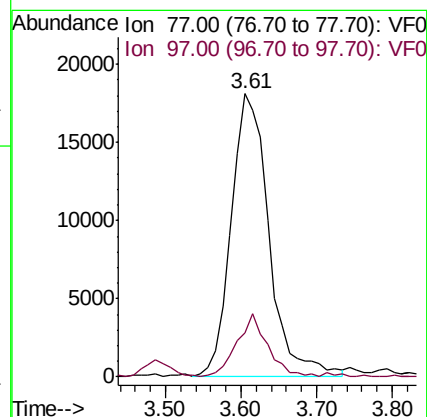
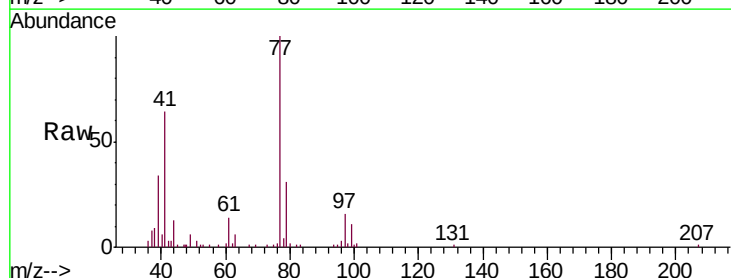
Acq: 13 Nov 2018 12:35

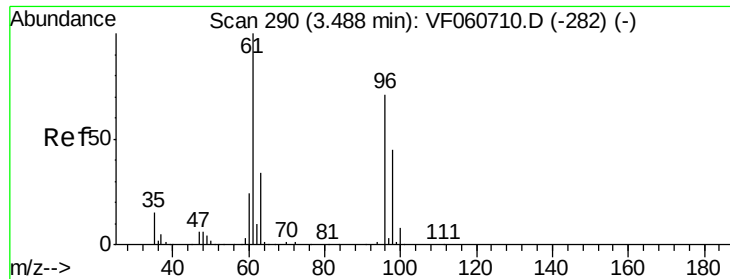
Tgt Ion: 77 Resp: 62833

Ion Ratio Lower Upper

77 100

97 15.7 8.8 26.5



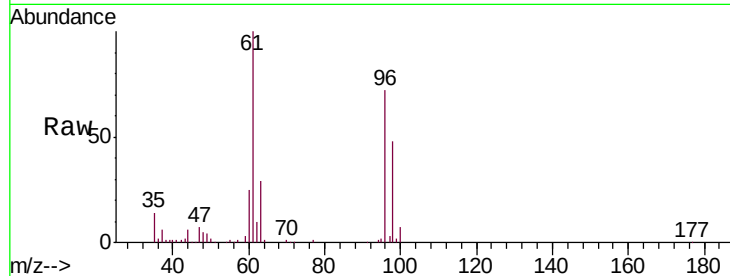


#27

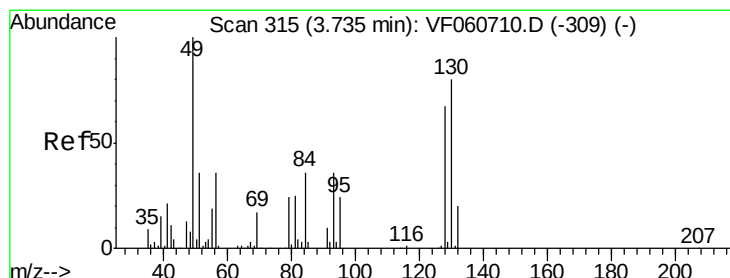
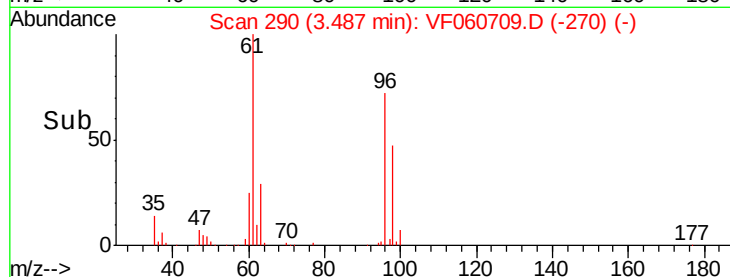
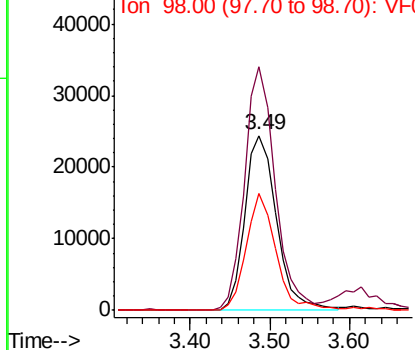
cis-1,2-Dichloroethene
Concen: 19.752 ug/l
RT: 3.49 min Scan# 290
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion: 96 Resp: 67182
Ion Ratio Lower Upper
96 100
61 139.1 0.0 280.6
98 66.5 0.0 127.6



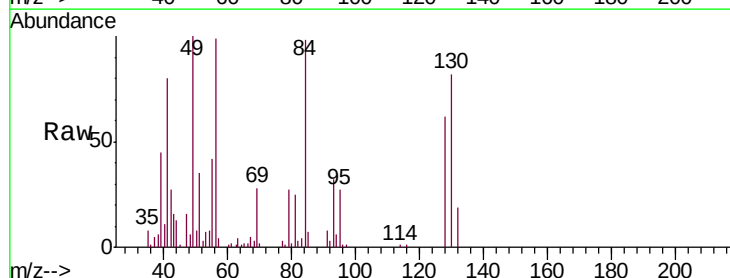
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



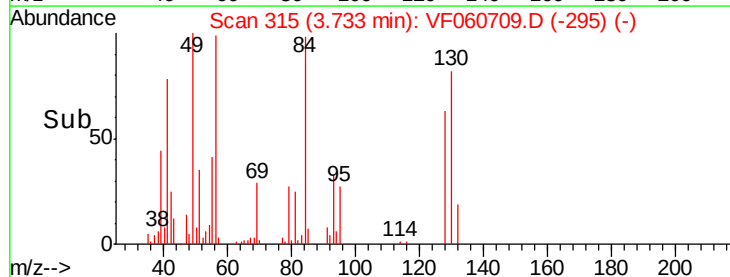
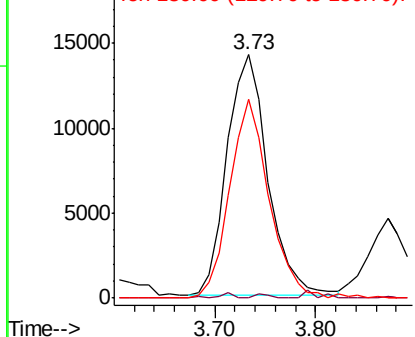
#28

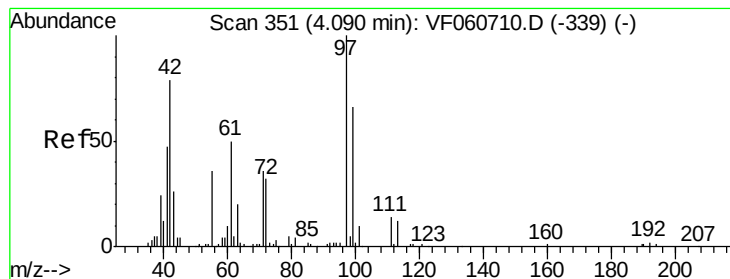
Bromochloromethane
Concen: 19.727 ug/l
RT: 3.73 min Scan# 315
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion: 49 Resp: 40174
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.2
130 81.6 63.9 95.9



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: 97.886 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

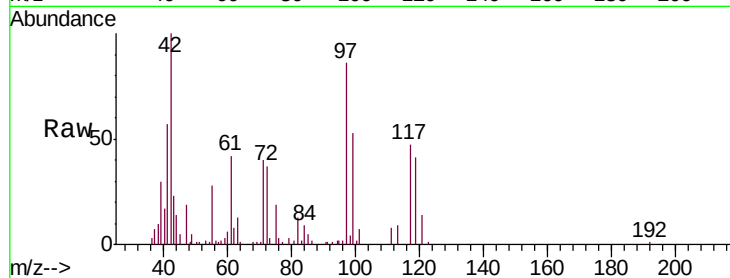
Tgt Ion: 42 Resp: 37980

Ion Ratio Lower Upper

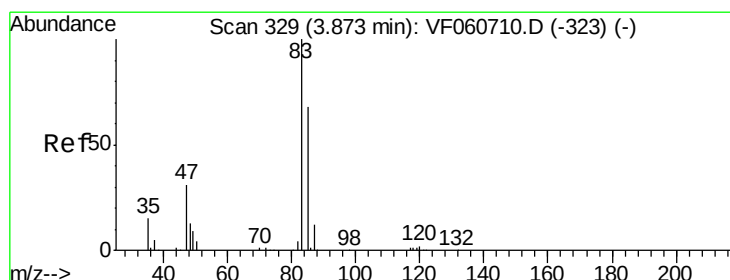
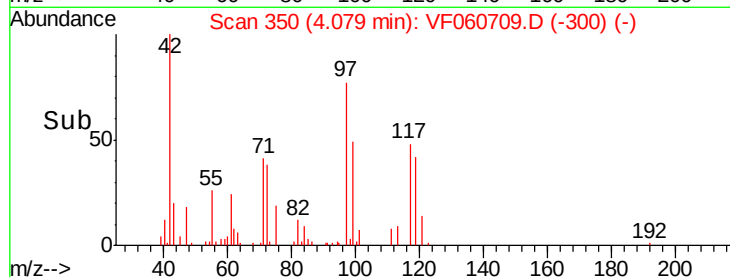
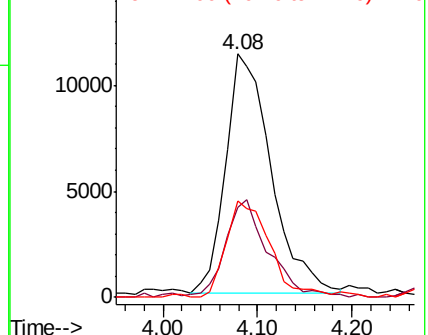
42 100

72 38.4 30.3 45.5

71 39.2 32.2 48.2



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



#30

Chloroform

Concen: 19.759 ug/l

RT: 3.87 min Scan# 329

Delta R.T. -0.00 min

Lab File: VF060709.D

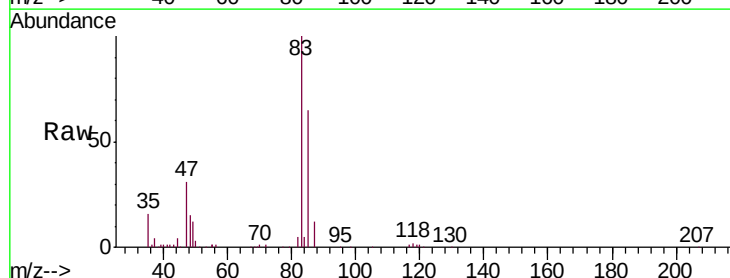
Acq: 13 Nov 2018 12:35

Tgt Ion: 83 Resp: 124234

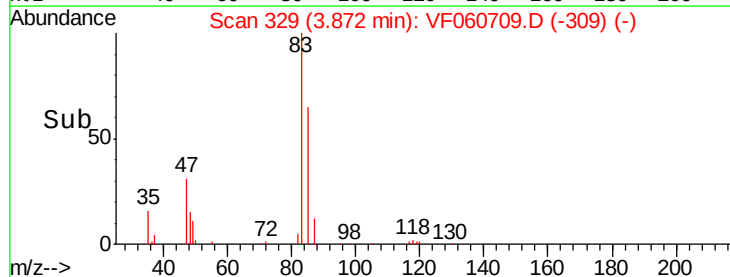
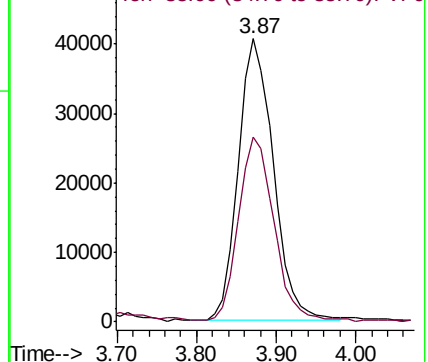
Ion Ratio Lower Upper

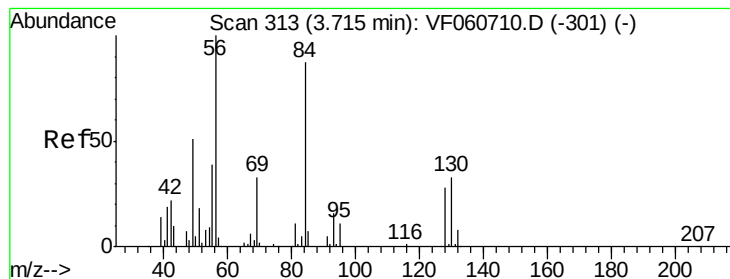
83 100

85 65.4 54.6 82.0



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





#31

Cyclohexane

Concen: 20.655 ug/l

RT: 3.70 min Scan# 312

Delta R.T. -0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

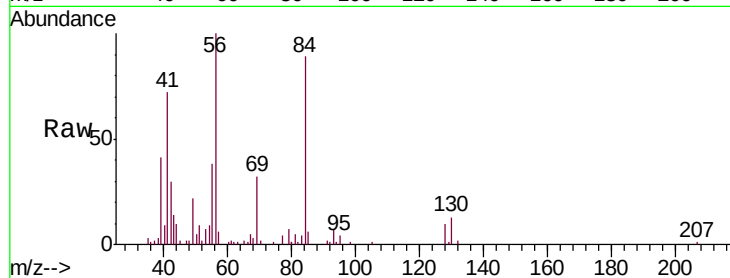
Tgt Ion: 56 Resp: 98235

Ion Ratio Lower Upper

56 100

69 32.0 26.0 39.0

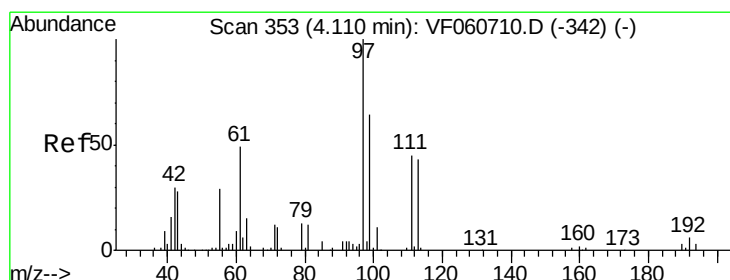
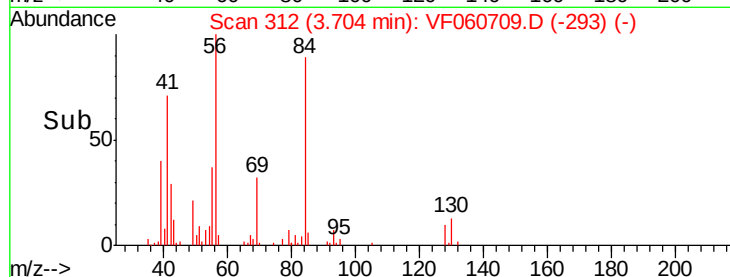
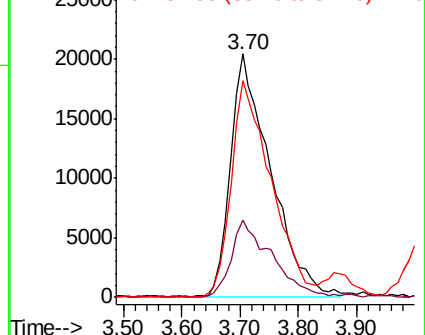
84 89.0 69.4 104.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 21.223 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

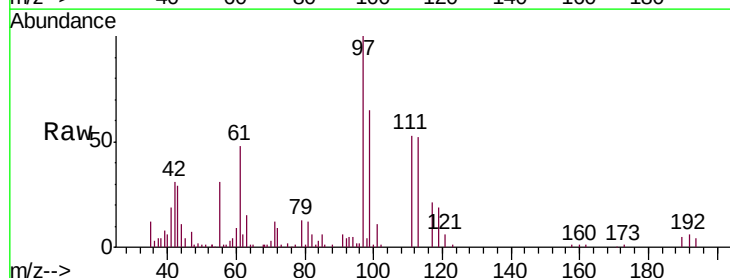
Tgt Ion: 97 Resp: 105079

Ion Ratio Lower Upper

97 100

99 65.2 51.1 76.7

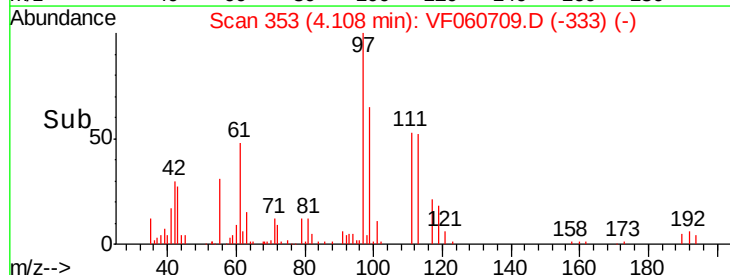
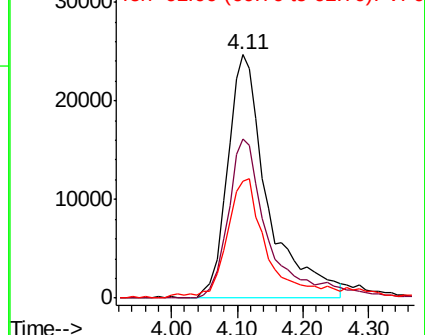
61 48.2 40.1 60.1

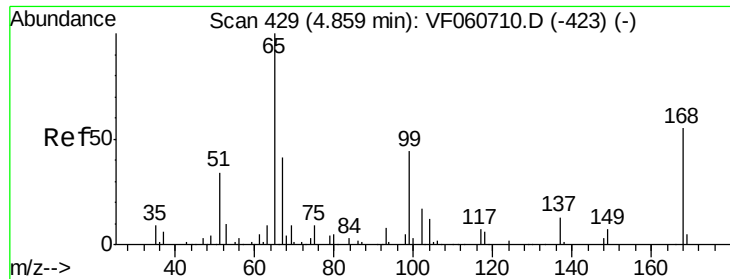


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

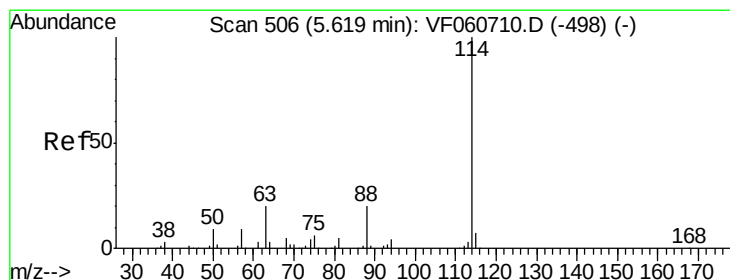
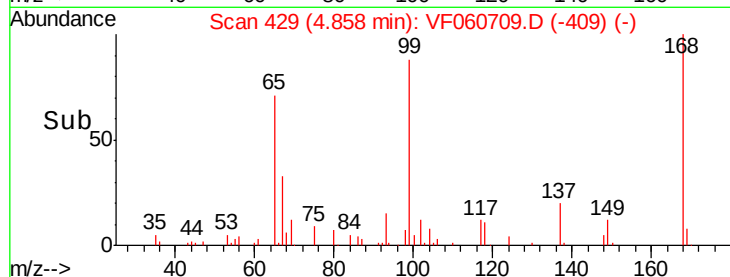
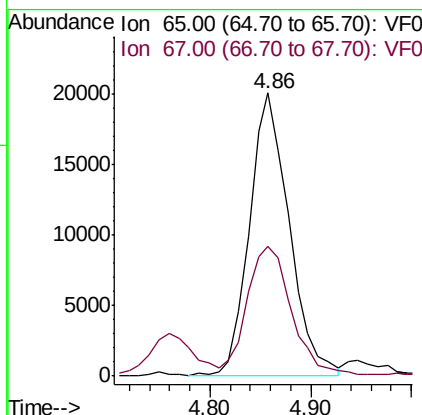
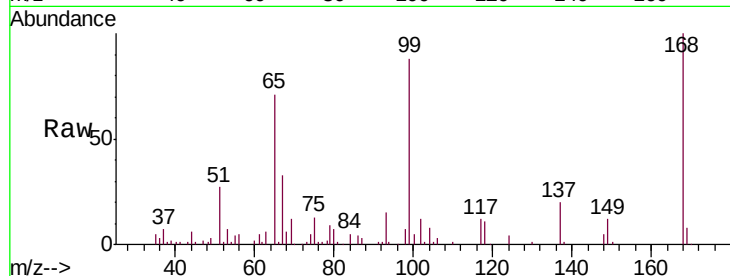




#33
 1,2-Dichloroethane-d4
 Concen: 20.567 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

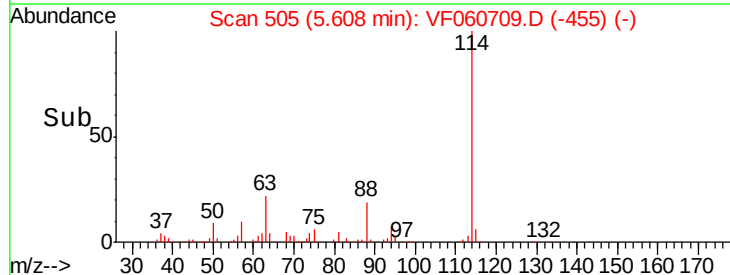
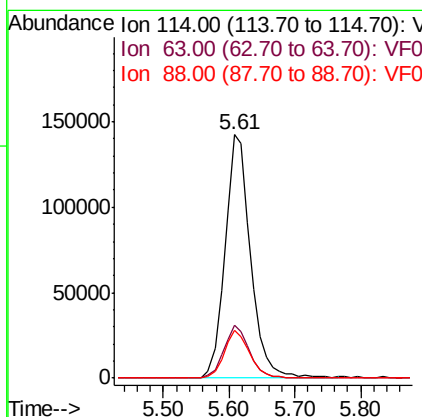
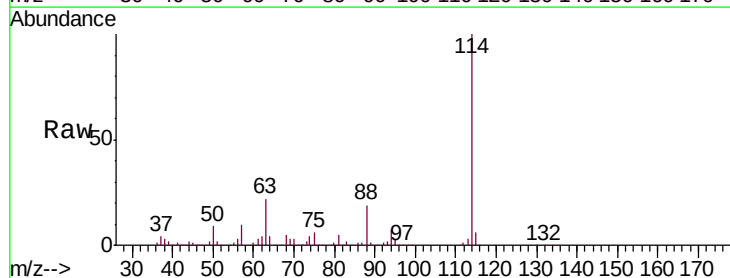
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

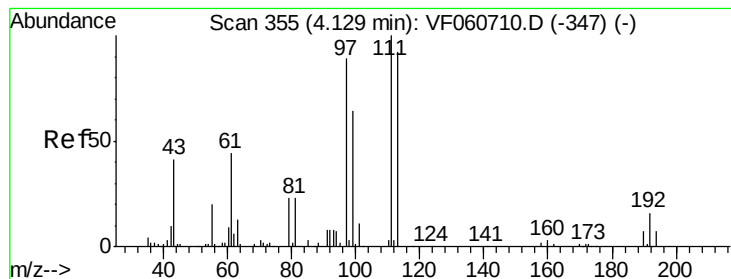
Tgt Ion: 65 Resp: 55028
 Ion Ratio Lower Upper
 65 100
 67 46.0 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.01 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion: 114 Resp: 385527
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 40.8
 88 19.4 0.0 39.6





#35

Dibromofluoromethane

Concen: 21.397 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

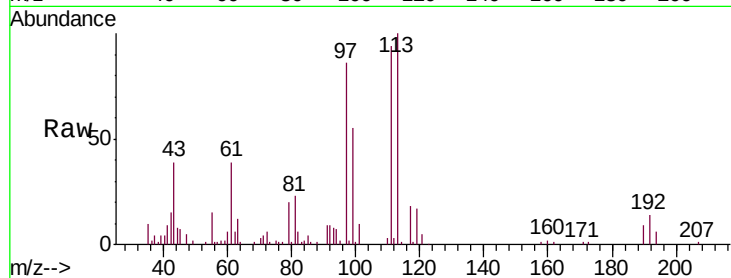
Tgt Ion: 113 Resp: 62009

Ion Ratio Lower Upper

113 100

111 94.0 87.1 130.7

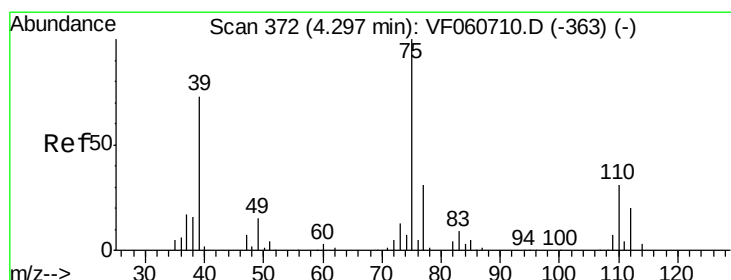
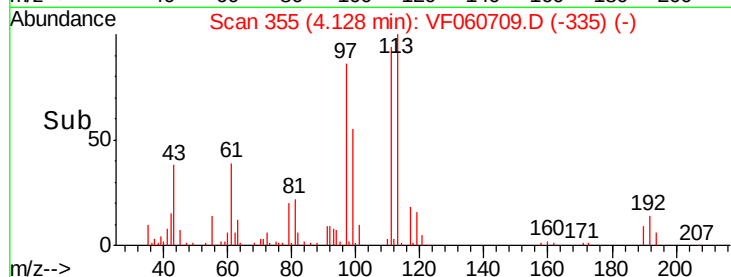
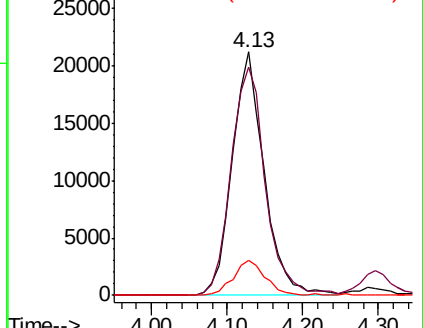
192 14.5 13.8 20.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 20.993 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

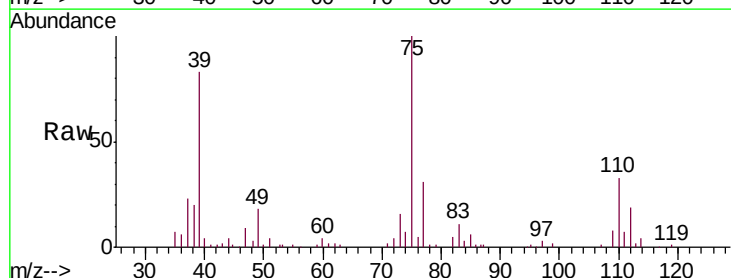
Tgt Ion: 75 Resp: 93862

Ion Ratio Lower Upper

75 100

110 32.9 15.6 46.8

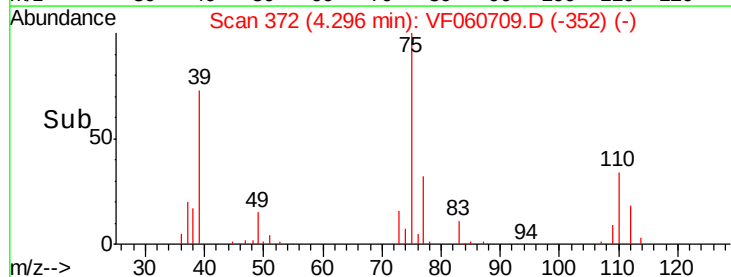
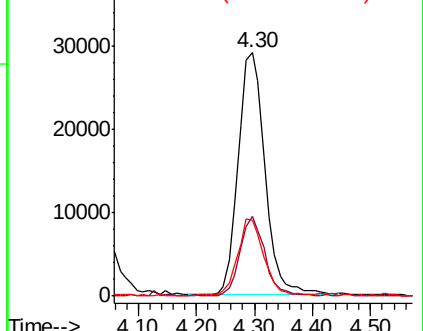
77 31.0 25.0 37.6

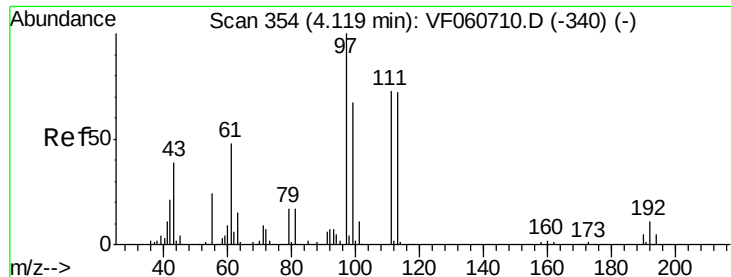


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 21.319 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

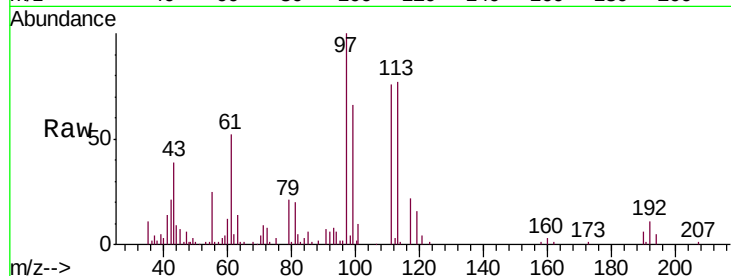
Tgt Ion: 43 Resp: 35439

Ion Ratio Lower Upper

43 100

61 131.7 98.5 147.7

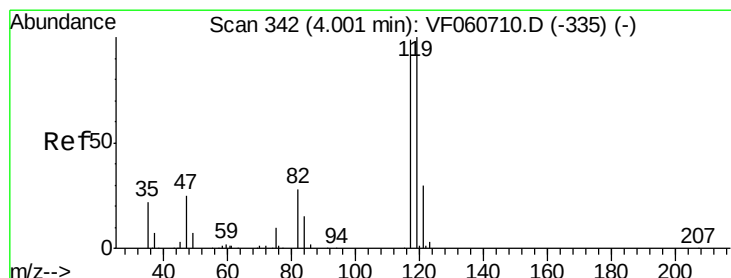
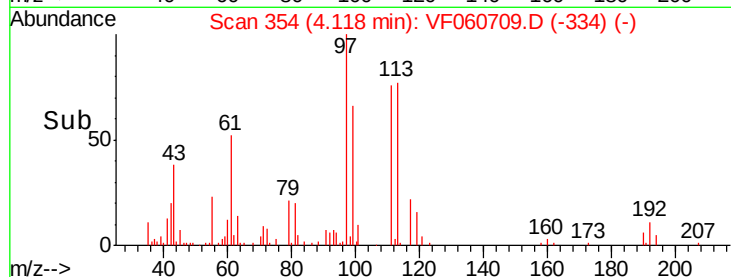
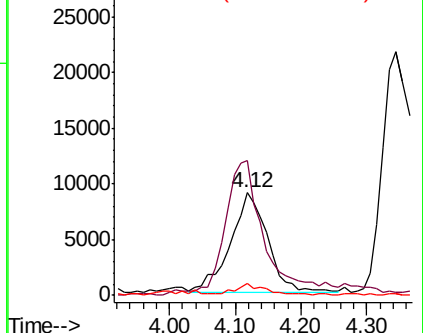
70 11.1 7.4 11.0#



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: 21.691 ug/l

RT: 4.01 min Scan# 343

Delta R.T. 0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

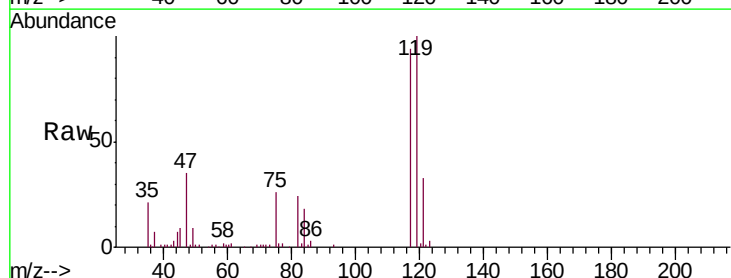
Tgt Ion: 117 Resp: 94105

Ion Ratio Lower Upper

117 100

119 105.8 80.7 121.1

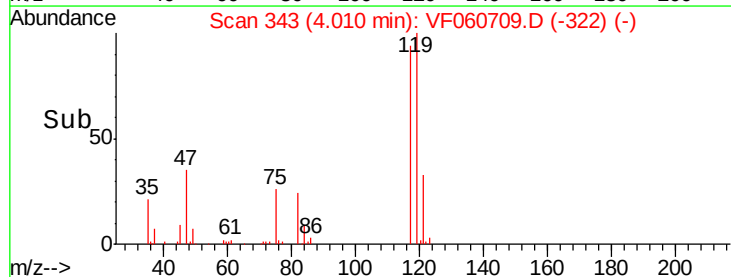
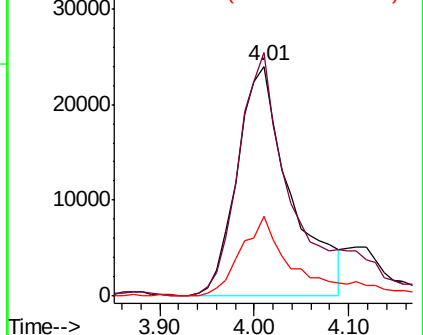
121 34.8 24.3 36.5

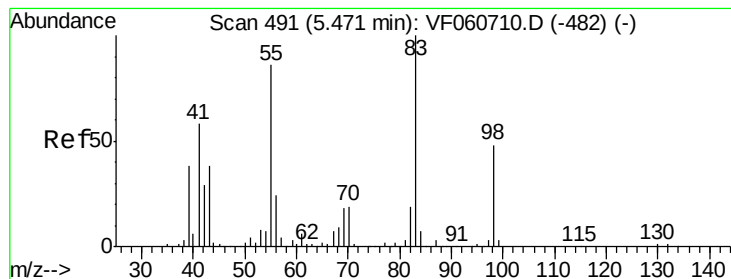


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#39

Methylcyclohexane

Concen: 20.742 ug/l

RT: 5.47 min Scan# 491

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

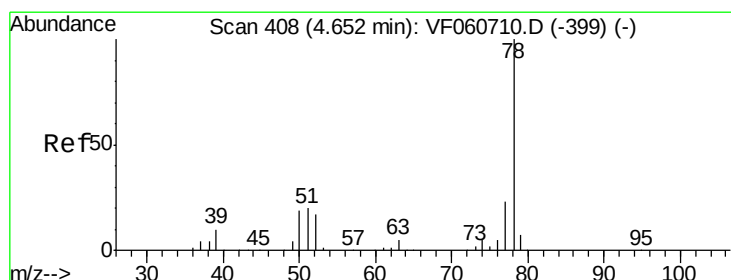
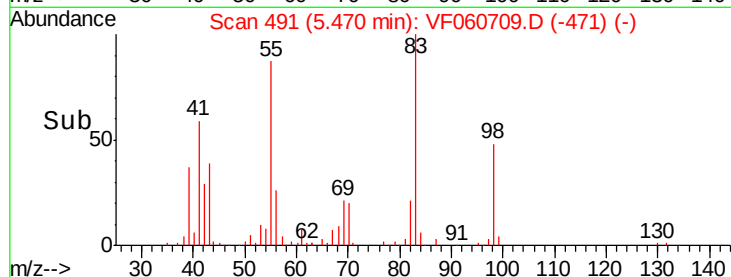
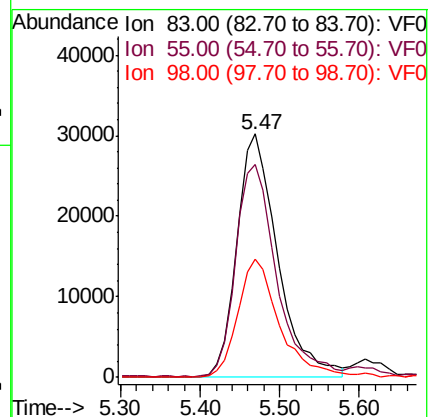
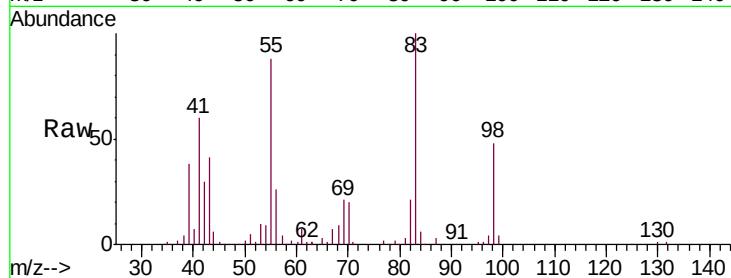
Tgt Ion: 83 Resp: 107592

Ion Ratio Lower Upper

83 100

55 87.6 69.0 103.4

98 48.3 38.5 57.7



#40

Benzene

Concen: 20.631 ug/l

RT: 4.64 min Scan# 407

Delta R.T. -0.01 min

Lab File: VF060709.D

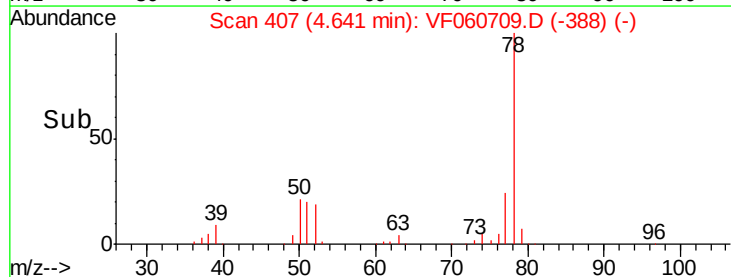
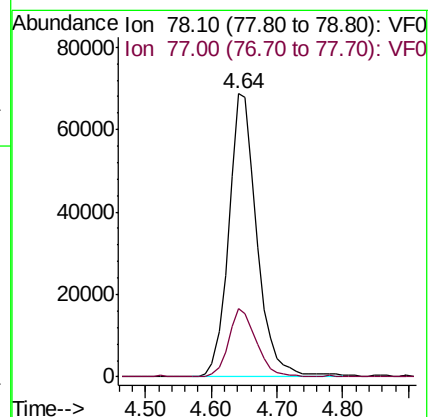
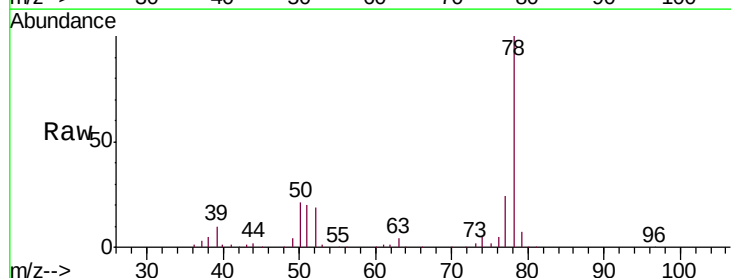
Acq: 13 Nov 2018 12:35

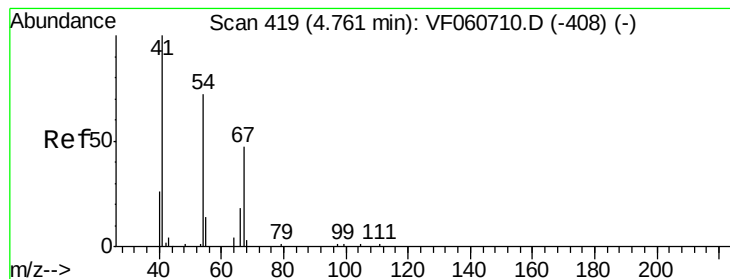
Tgt Ion: 78 Resp: 205629

Ion Ratio Lower Upper

78 100

77 24.1 18.6 28.0





#41

Methacrylonitrile

Concen: 19.008 ug/l

RT: 4.76 min Scan# 419

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 19141

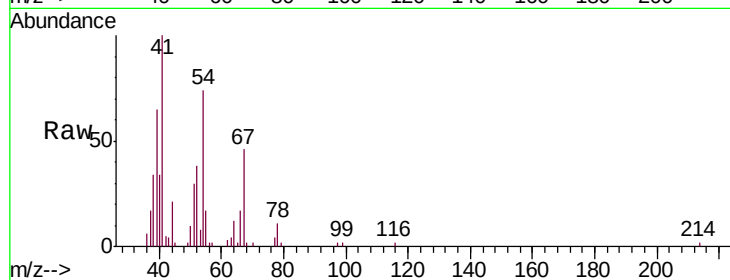
Ion Ratio Lower Upper

41 100

39 65.1 47.1 70.7

67 45.8 37.1 55.7

52 38.1 39.3 58.9#



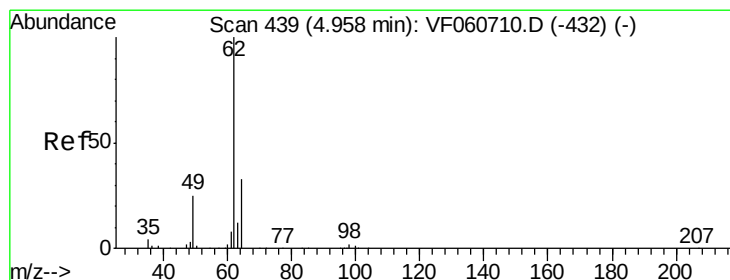
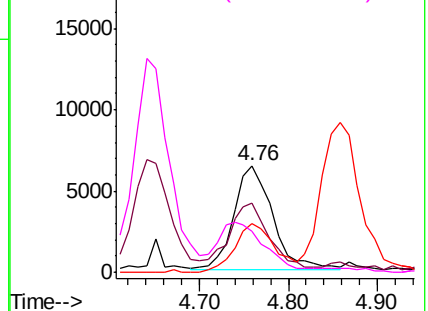
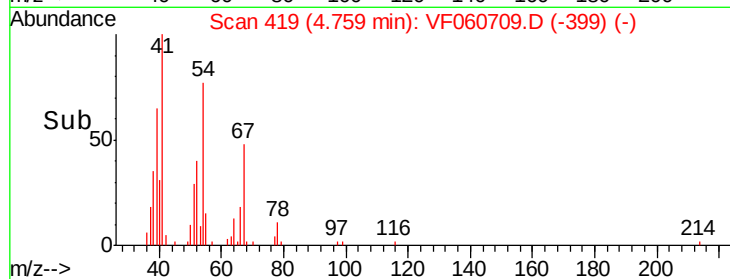
Abundance

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 20.529 ug/l

RT: 4.96 min Scan# 439

Delta R.T. -0.00 min

Lab File: VF060709.D

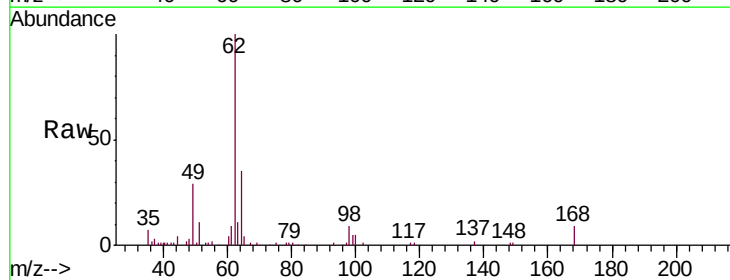
Acq: 13 Nov 2018 12:35

Tgt Ion: 62 Resp: 70706

Ion Ratio Lower Upper

62 100

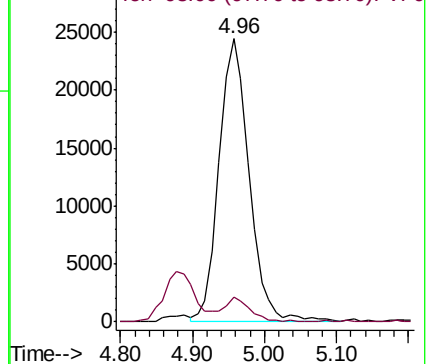
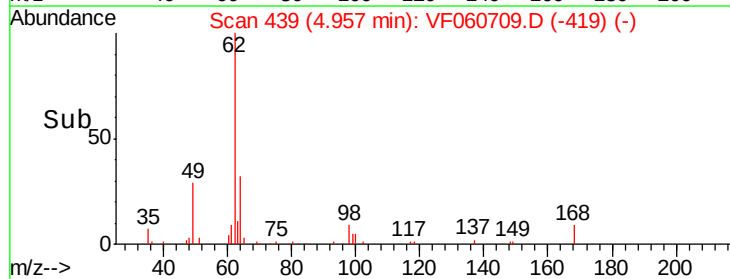
98 8.8 0.0 16.6

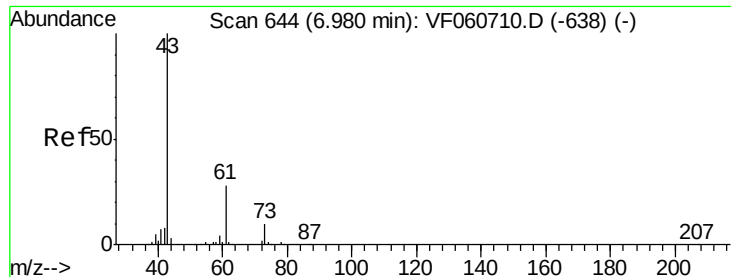


Abundance

Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 21.005 ug/l

RT: 6.97 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

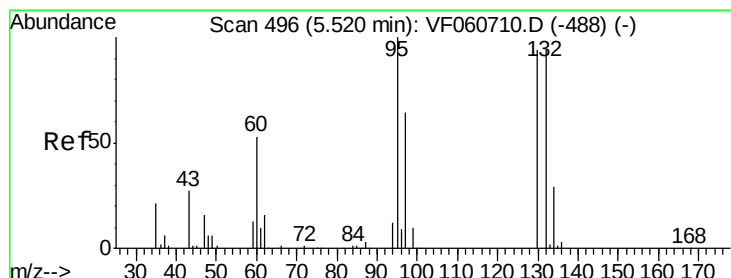
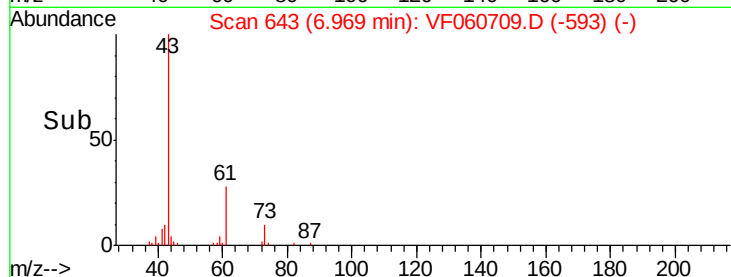
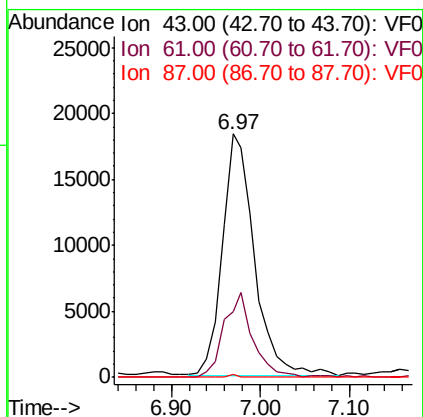
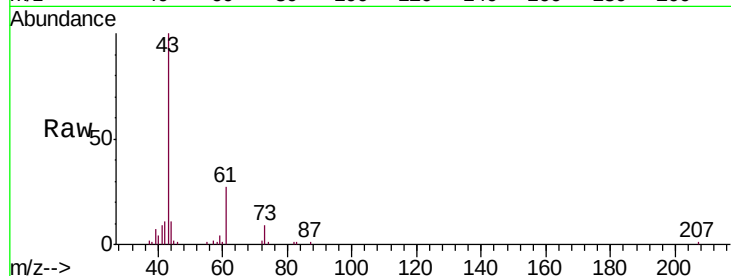
Tgt Ion: 43 Resp: 46295

Ion Ratio Lower Upper

43 100

61 26.9 22.2 33.4

87 1.2 0.4 0.6#



#44

Trichloroethene

Concen: 21.398 ug/l

RT: 5.52 min Scan# 496

Delta R.T. -0.00 min

Lab File: VF060709.D

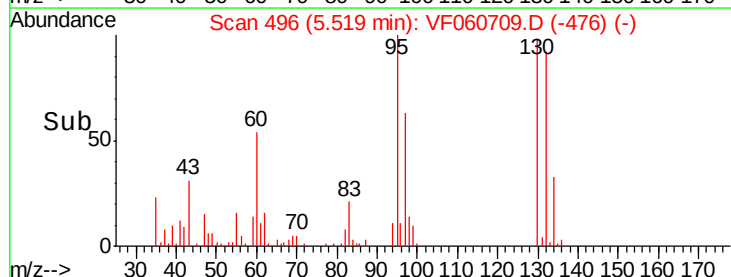
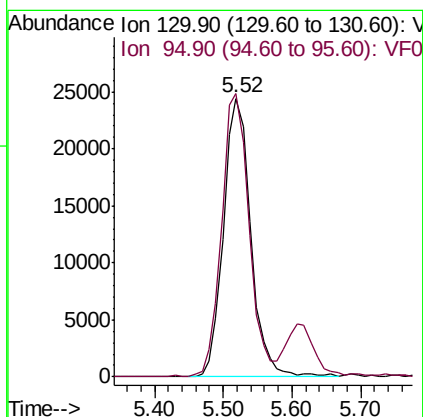
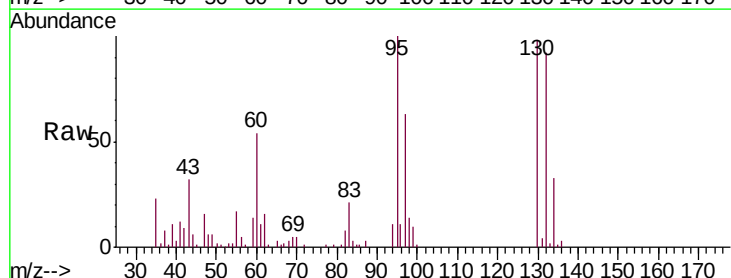
Acq: 13 Nov 2018 12:35

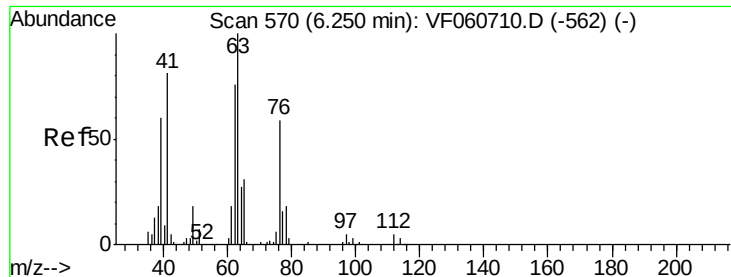
Tgt Ion: 130 Resp: 67289

Ion Ratio Lower Upper

130 100

95 101.6 0.0 212.6





#45

1,2-Dichloropropane

Concen: 20.320 ug/l

RT: 6.25 min Scan# 570

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

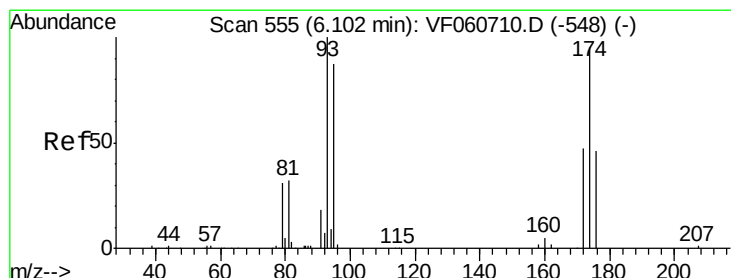
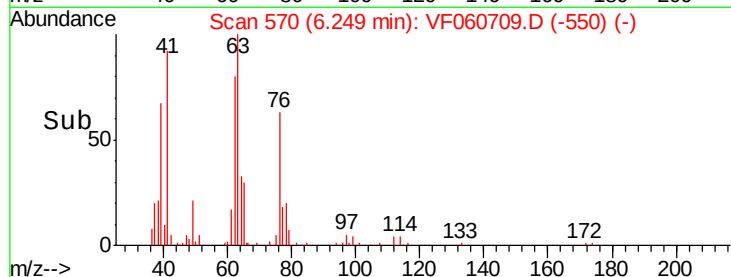
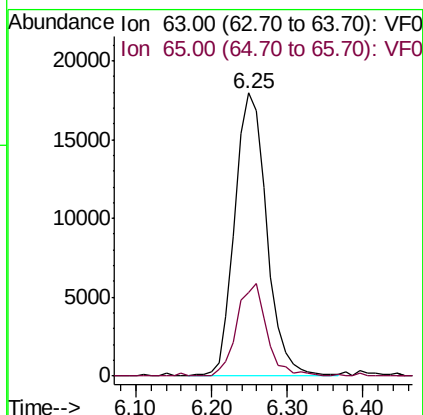
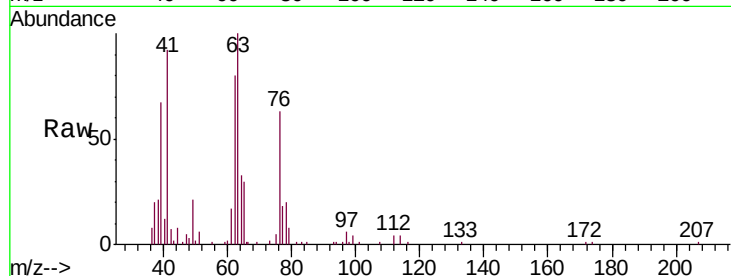
VSTDIC020

Tgt Ion: 63 Resp: 52701

Ion Ratio Lower Upper

63 100

65 29.7 24.6 36.8



#46

Dibromomethane

Concen: 21.160 ug/l

RT: 6.10 min Scan# 555

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

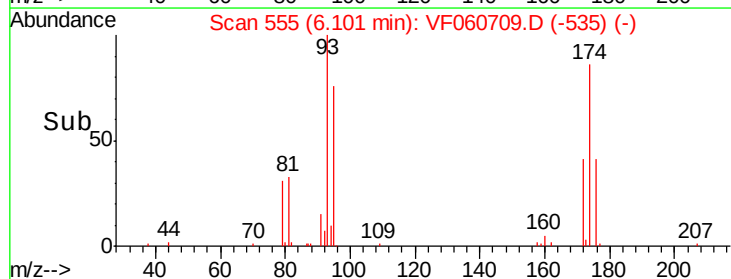
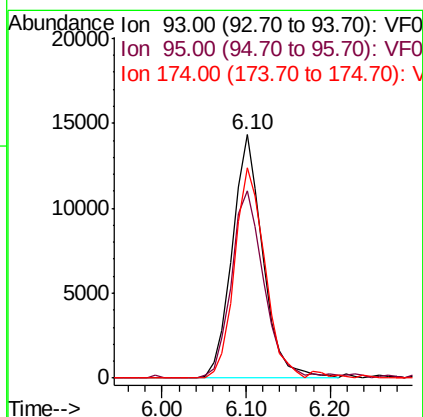
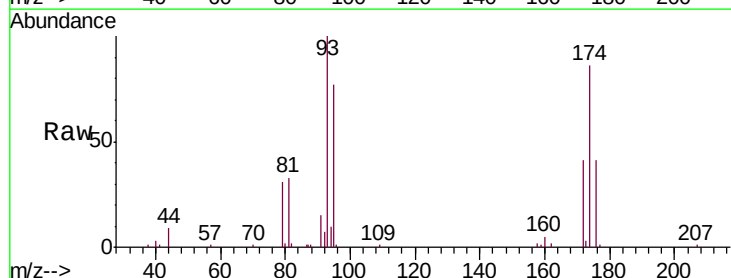
Tgt Ion: 93 Resp: 36226

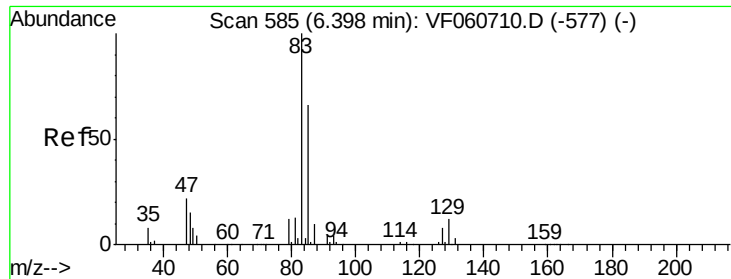
Ion Ratio Lower Upper

93 100

95 77.1 69.5 104.3

174 86.4 76.2 114.2





#47

Bromodichloromethane

Concen: 20.811 ug/l

RT: 6.40 min Scan# 585

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

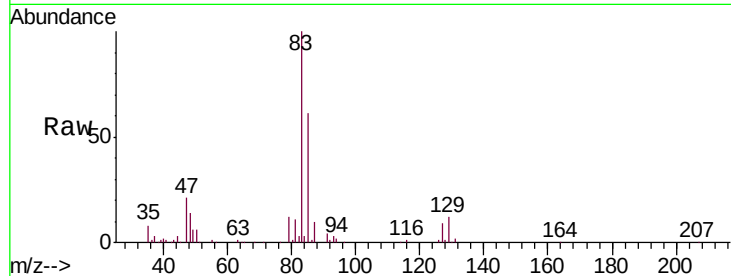
Tgt Ion: 83 Resp: 90982

Ion Ratio Lower Upper

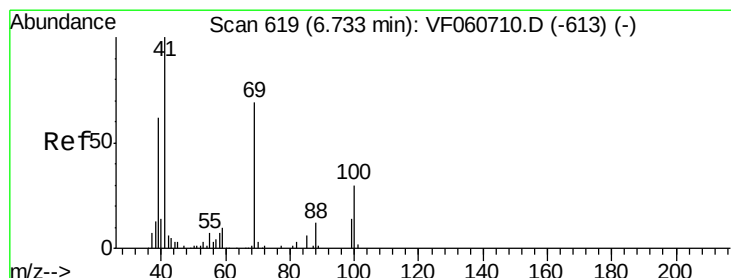
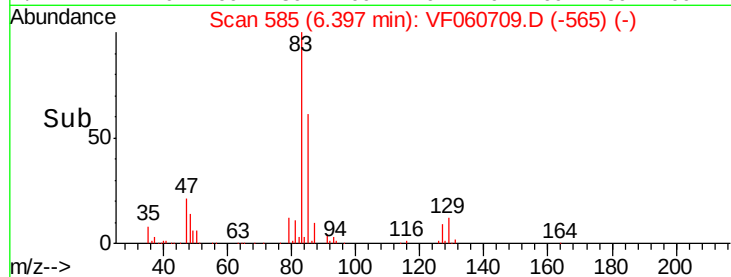
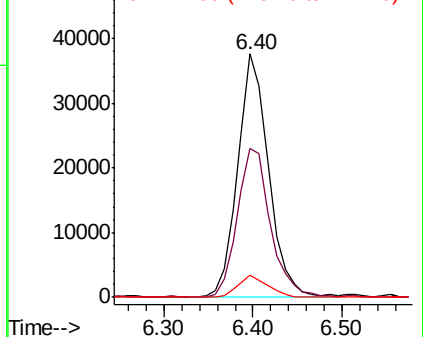
83 100

85 61.4 52.4 78.6

127 8.8 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 21.352 ug/l

RT: 6.73 min Scan# 619

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

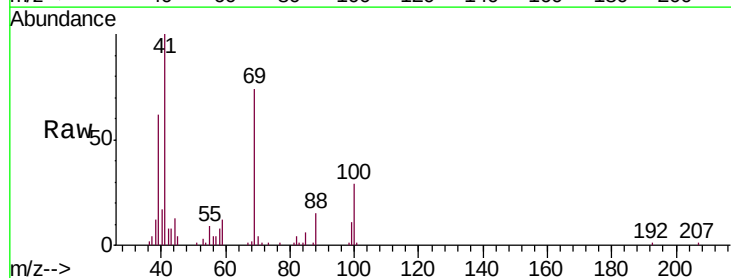
Tgt Ion: 41 Resp: 31145

Ion Ratio Lower Upper

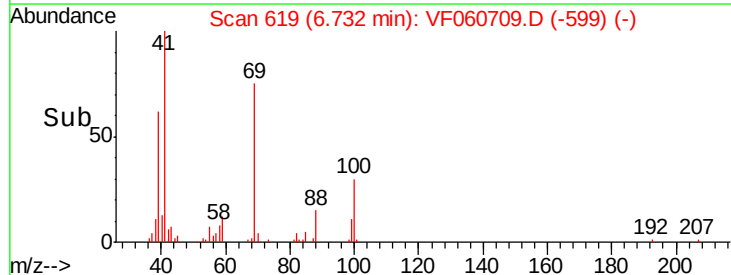
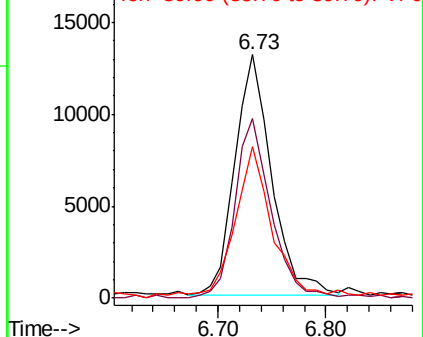
41 100

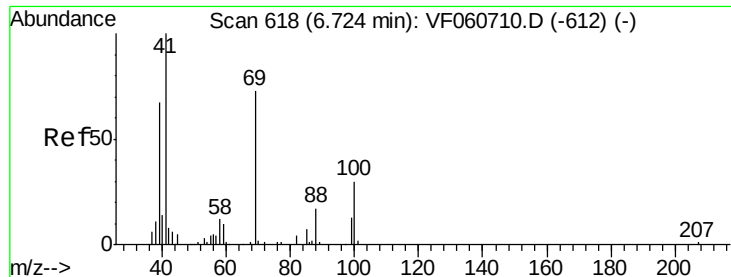
69 73.9 54.9 82.3

39 62.2 49.6 74.4



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

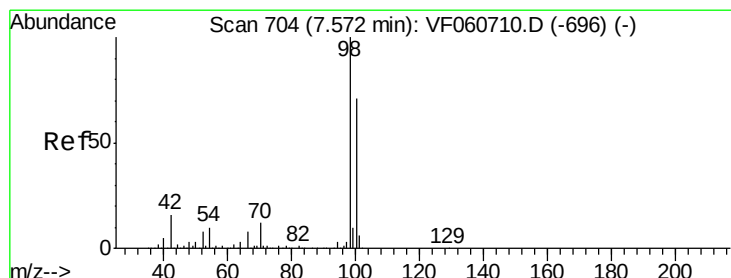
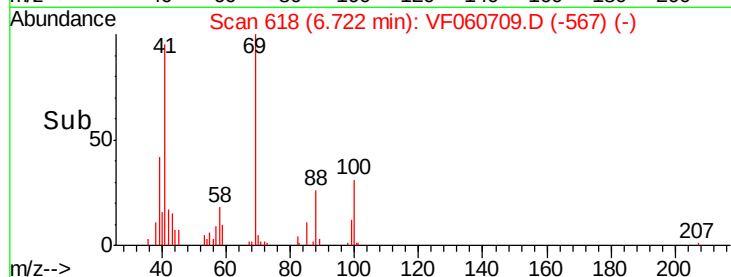
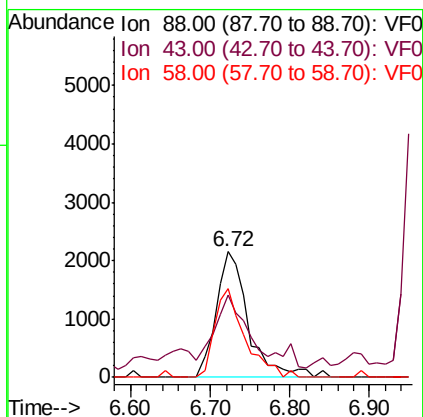
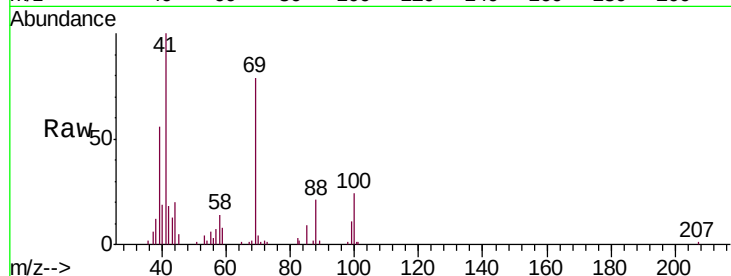




#49
1,4-Dioxane
Concen: 448.035 ug/l
RT: 6.72 min Scan# 618
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

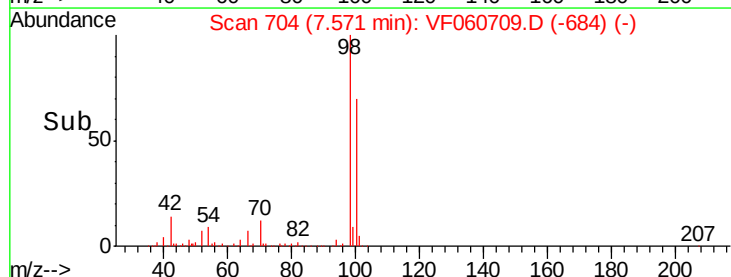
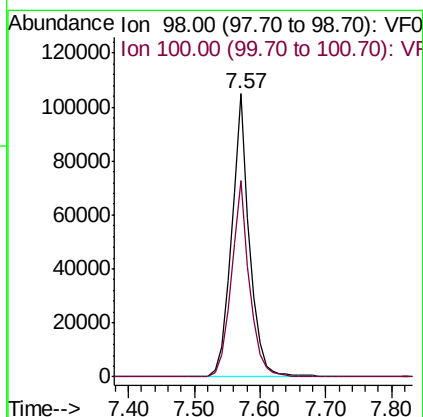
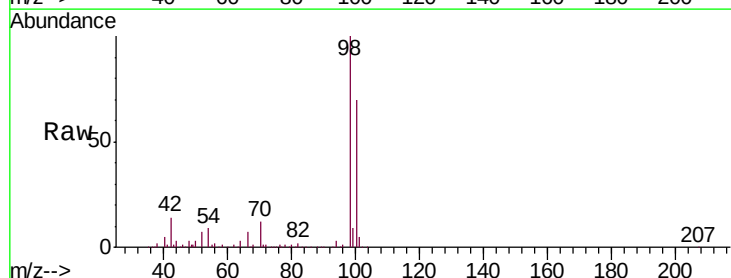
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

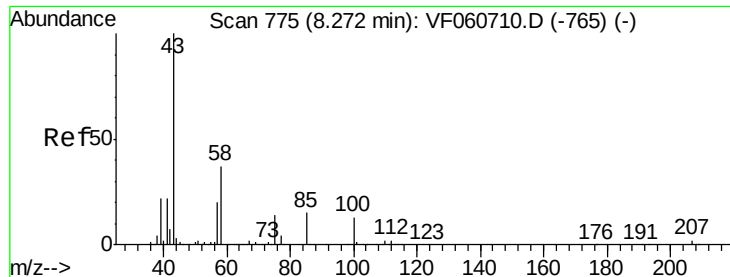
Tgt Ion: 88 Resp: 6112
Ion Ratio Lower Upper
88 100
43 65.3 44.6 66.8
58 70.5 54.5 81.7



#50
Toluene-d8
Concen: 23.714 ug/l
RT: 7.57 min Scan# 704
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion: 98 Resp: 198431
Ion Ratio Lower Upper
98 100
100 69.5 56.5 84.7

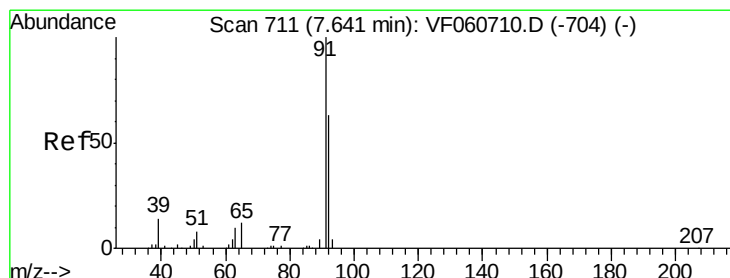
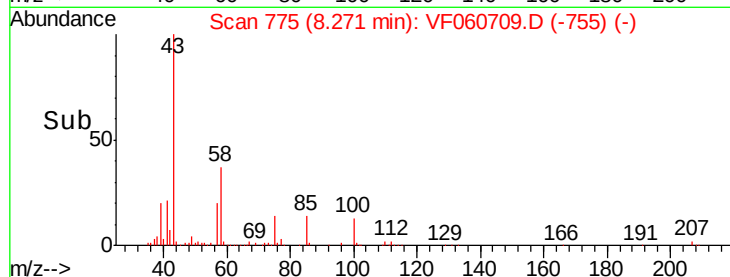
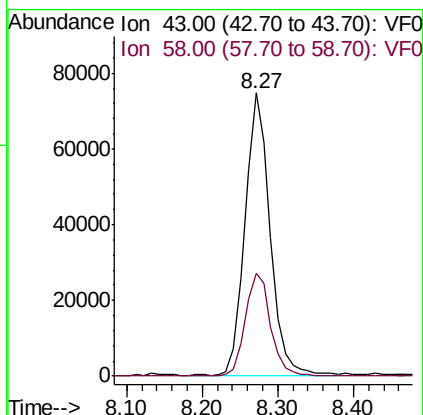
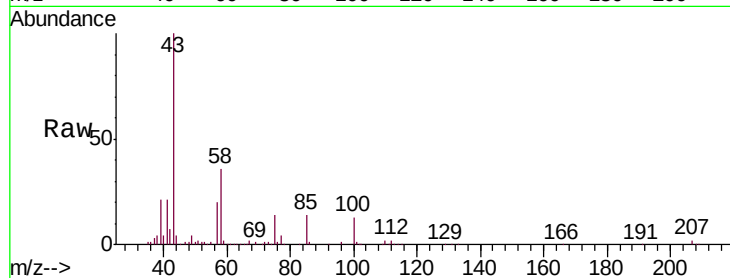




#51
 4-Methyl-2-Pentanone
 Concen: 106.683 ug/l
 RT: 8.27 min Scan# 775
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

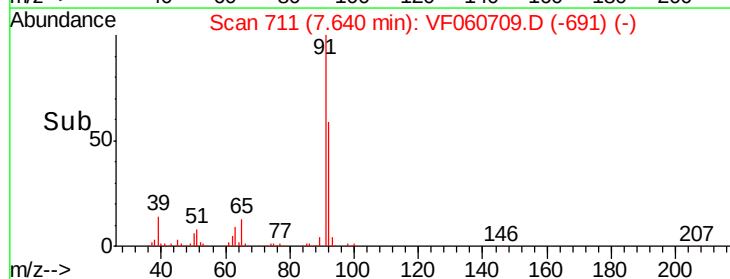
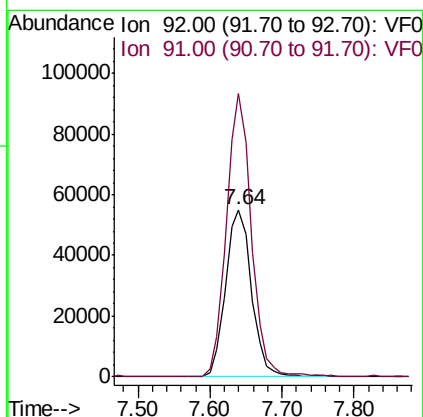
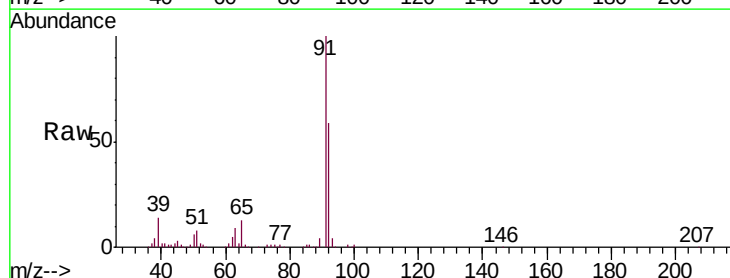
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

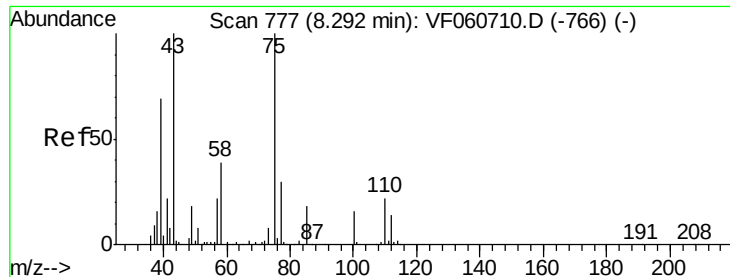
Tgt Ion: 43 Resp: 170056
 Ion Ratio Lower Upper
 43 100
 58 36.4 29.2 43.8



#52
 Toluene
 Concen: 20.759 ug/l
 RT: 7.64 min Scan# 711
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion: 92 Resp: 138653
 Ion Ratio Lower Upper
 92 100
 91 169.0 126.7 190.1

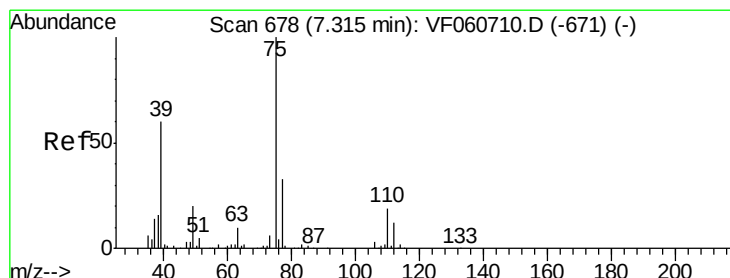
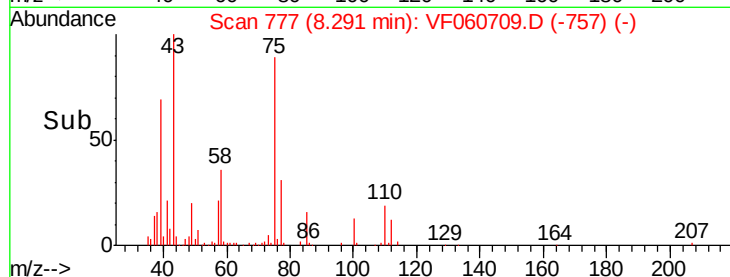
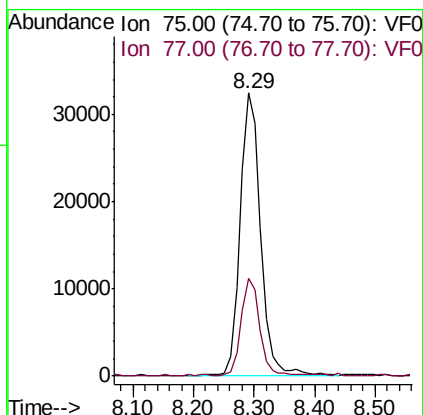
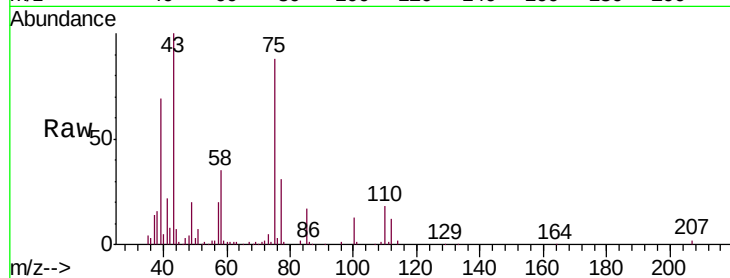




#53
 t-1,3-Dichloropropene
 Concen: 21.905 ug/l
 RT: 8.29 min Scan# 777
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

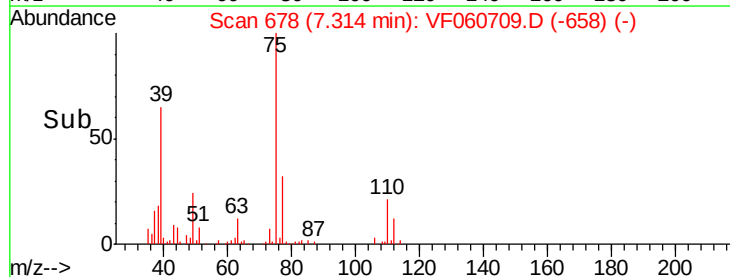
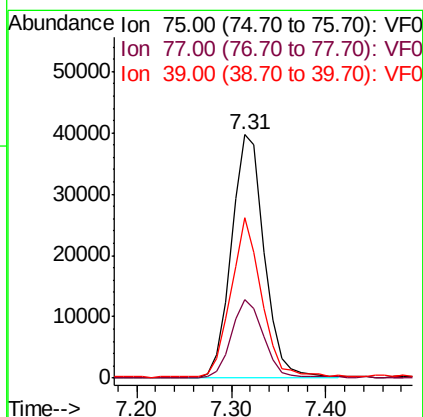
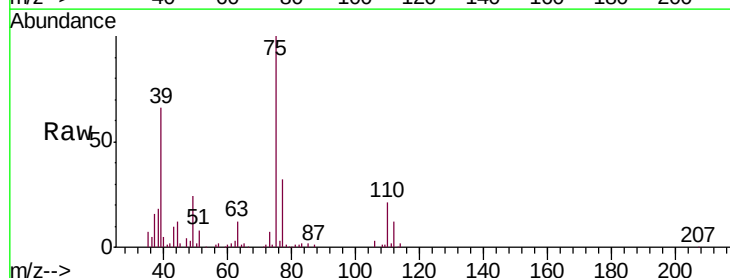
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

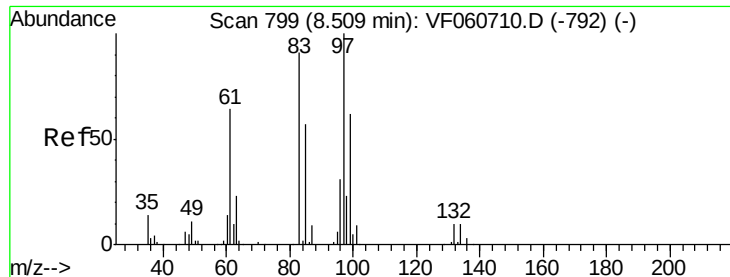
Tgt Ion: 75 Resp: 76702
 Ion Ratio Lower Upper
 75 100
 77 34.5 24.6 36.8



#54
 cis-1,3-Dichloropropene
 Concen: 20.932 ug/l
 RT: 7.31 min Scan# 678
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion: 75 Resp: 95208
 Ion Ratio Lower Upper
 75 100
 77 32.3 26.5 39.7
 39 65.9 48.5 72.7

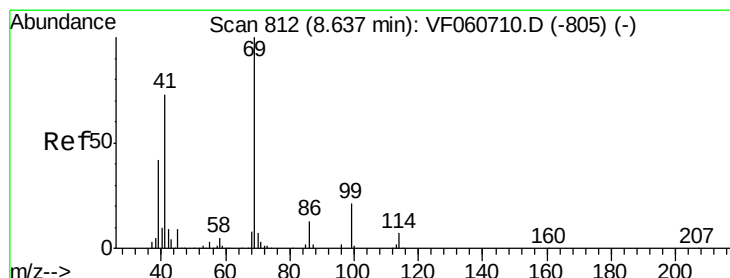
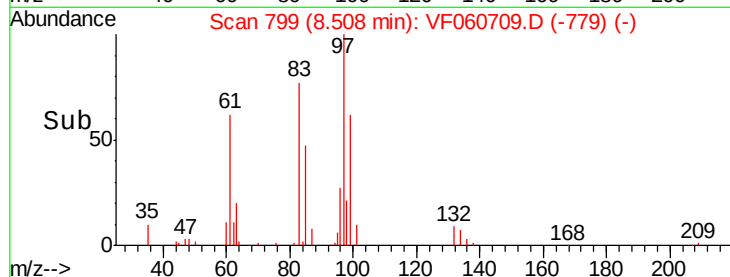
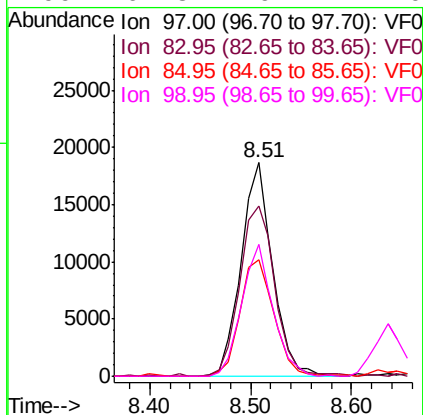
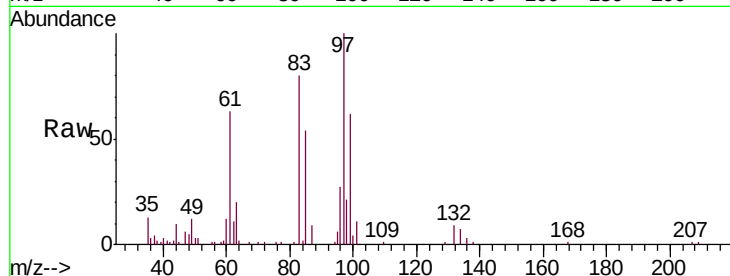




#55
 1,1,2-Trichloroethane
 Concen: 21.313 ug/l
 RT: 8.51 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

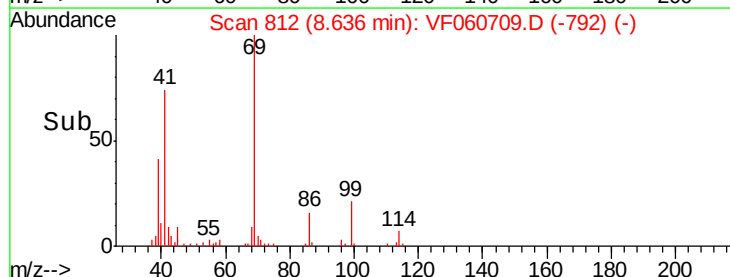
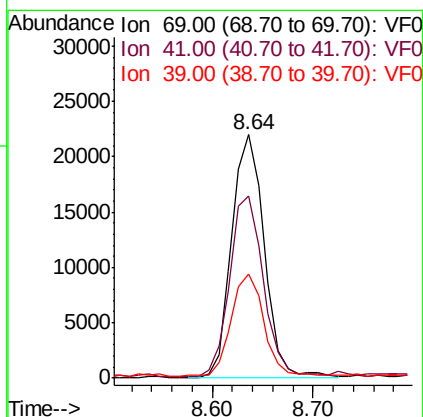
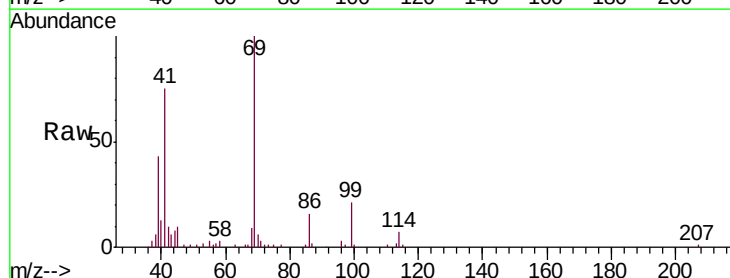
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

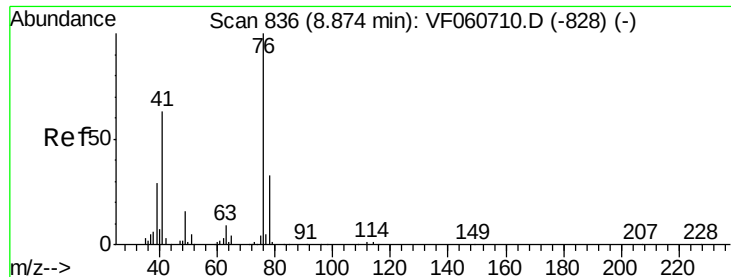
Tgt Ion:	97	Resp:	40672
Ion	Ratio	Lower	Upper
97	100		
83	79.8	72.8	109.2
85	54.3	45.8	68.6
99	61.8	49.4	74.0



#56
 Ethyl methacrylate
 Concen: 22.975 ug/l
 RT: 8.64 min Scan# 812
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion:	69	Resp:	49794
Ion	Ratio	Lower	Upper
69	100		
41	75.1	59.0	88.6
39	42.5	34.0	51.0





#57

1,3-Dichloropropane

Concen: 22.023 ug/l

RT: 8.87 min Scan# 836

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

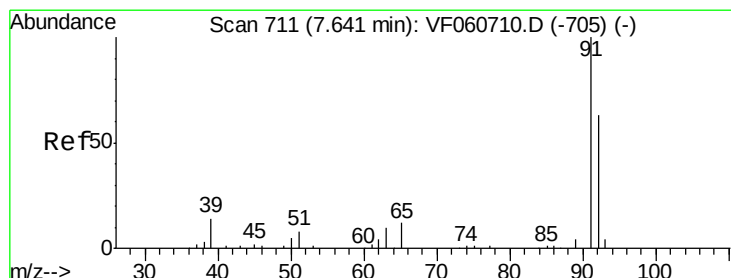
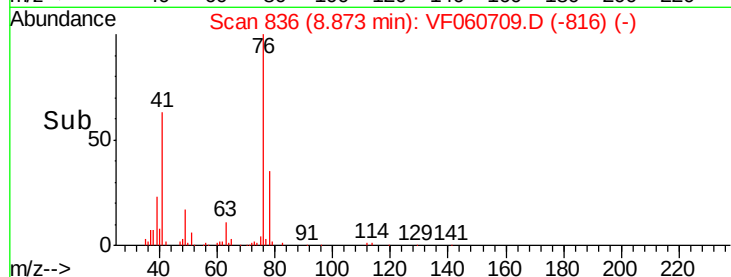
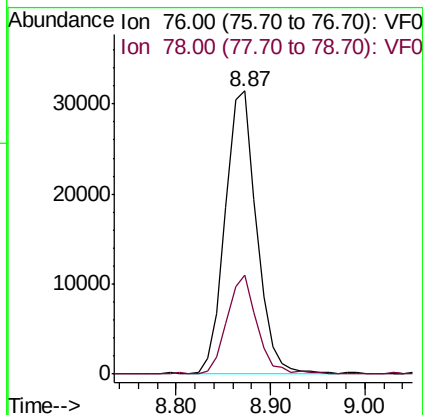
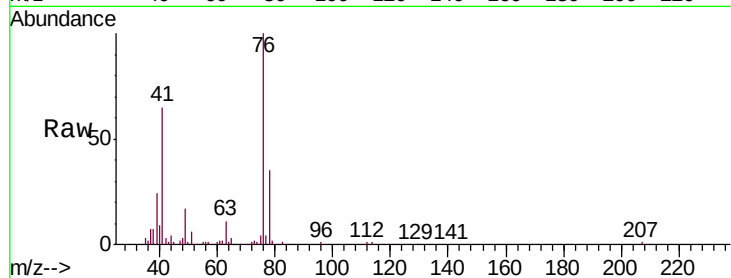
VSTDIC020

Tgt Ion: 76 Resp: 72835

Ion Ratio Lower Upper

76 100

78 35.0 26.6 39.8



#58

2-Chloroethyl Vinyl ether

Concen: 96.989 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060709.D

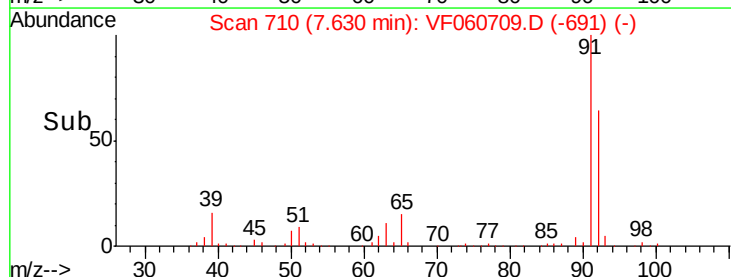
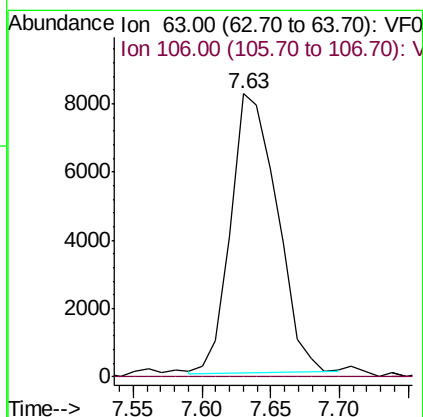
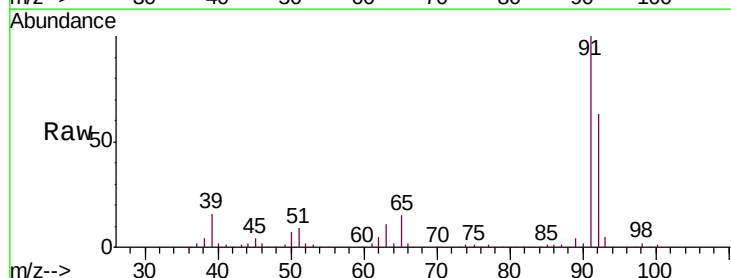
Acq: 13 Nov 2018 12:35

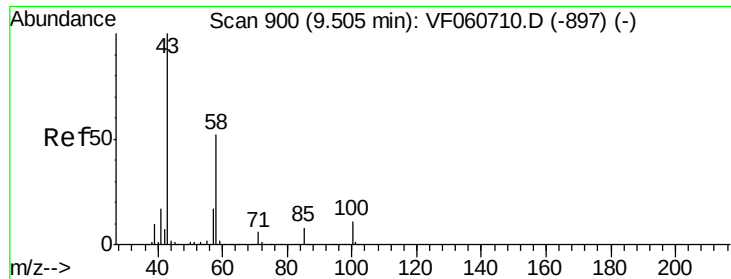
Tgt Ion: 63 Resp: 19202

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

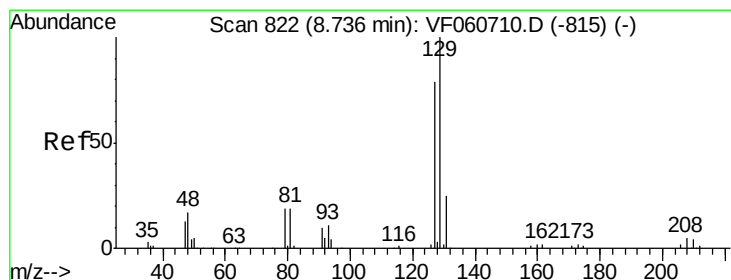
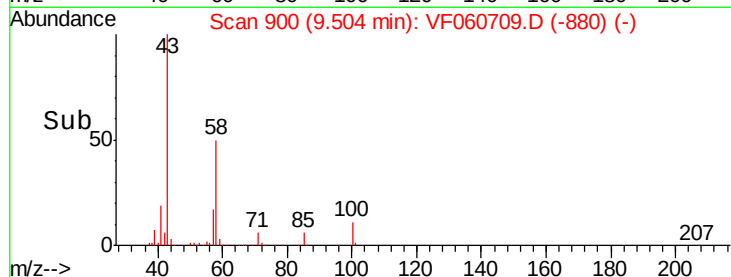
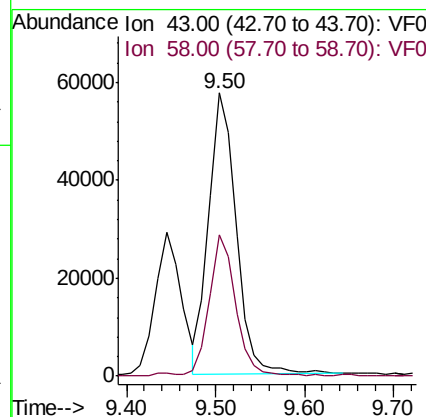
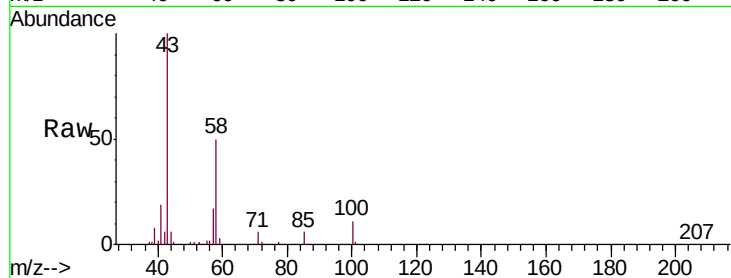




#59
2-Hexanone
Concen: 110.047 ug/l
RT: 9.50 min Scan# 900
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

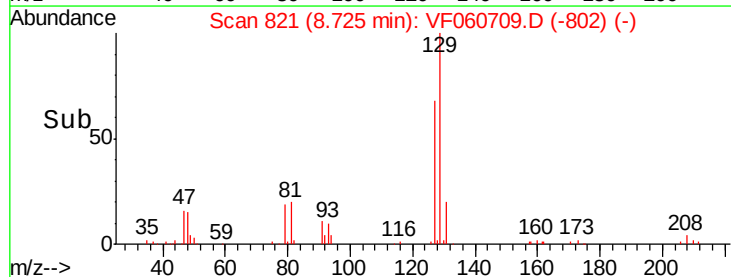
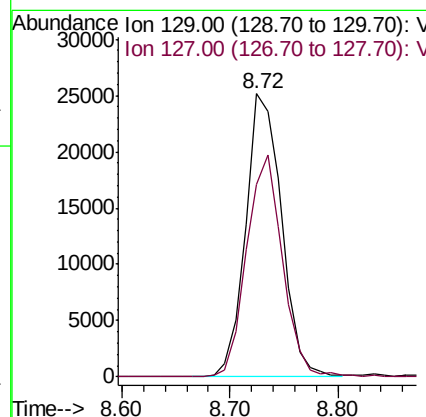
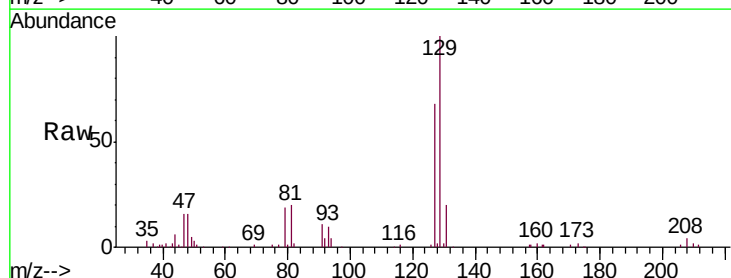
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

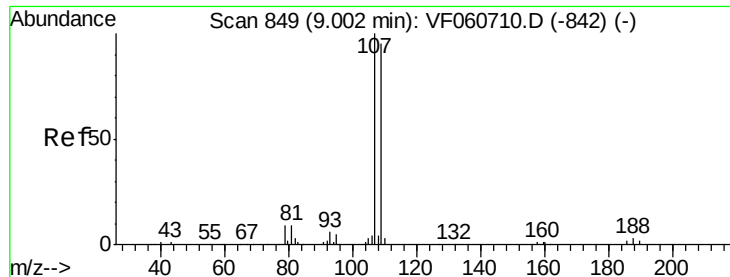
Tgt Ion: 43 Resp: 123279
Ion Ratio Lower Upper
43 100
58 49.7 24.9 74.7



#60
Dibromochloromethane
Concen: 21.383 ug/l
RT: 8.72 min Scan# 821
Delta R.T. -0.01 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion: 129 Resp: 58155
Ion Ratio Lower Upper
129 100
127 68.2 39.7 119.1





#61

1,2-Dibromoethane

Concen: 20.650 ug/l

RT: 9.00 min Scan# 849

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

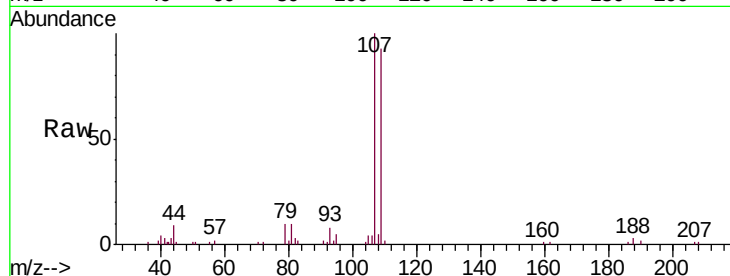
VSTDIC020

Tgt Ion:107 Resp: 41444

Ion Ratio Lower Upper

107 100

109 93.5 75.9 113.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.00

20000

15000

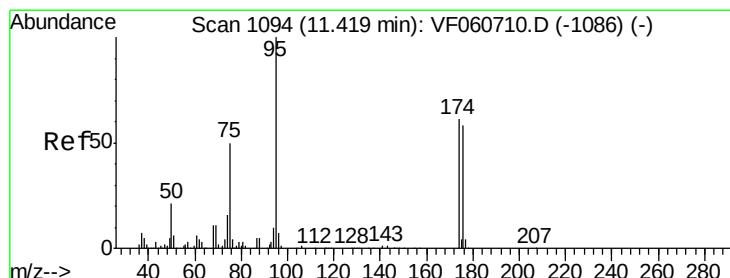
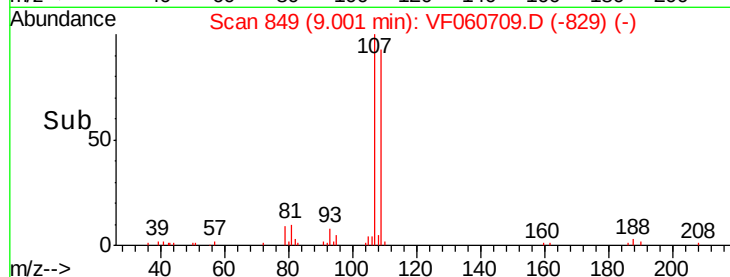
10000

5000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 21.366 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

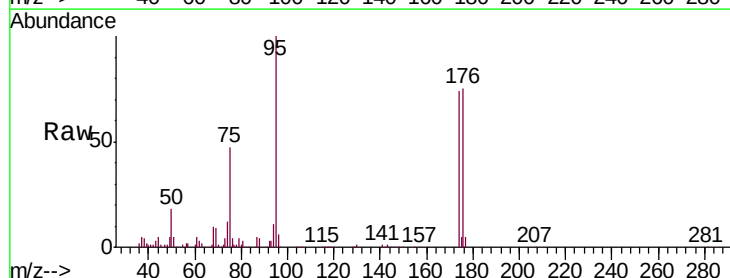
Tgt Ion: 95 Resp: 83653

Ion Ratio Lower Upper

95 100

174 74.0 0.0 121.6

176 74.9 0.0 115.2



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

60000

50000

40000

30000

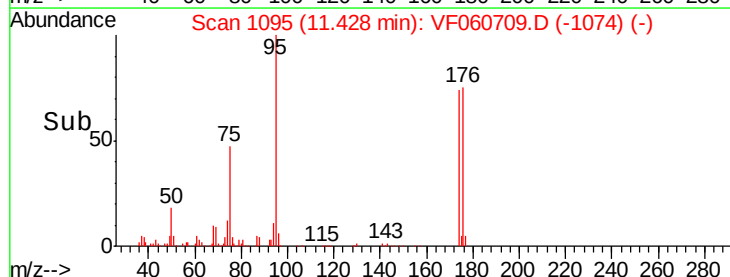
20000

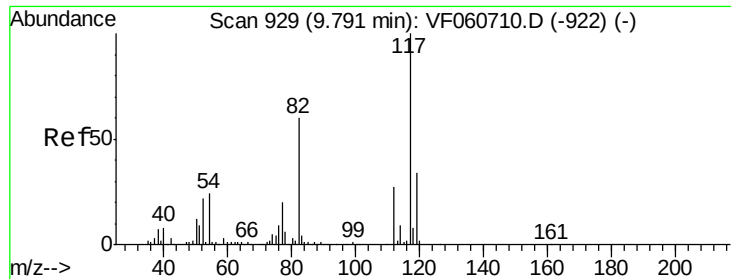
10000

0

Time-->

11.30 11.40 11.50

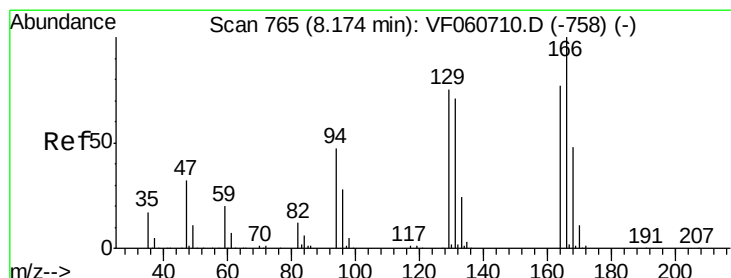
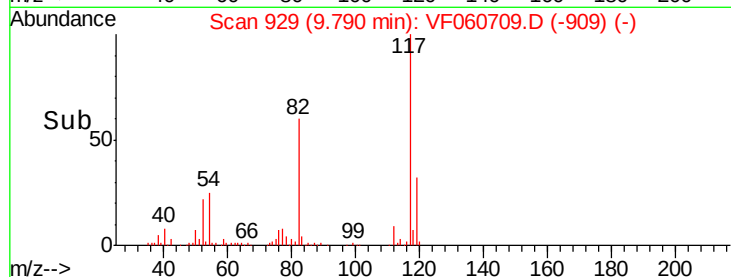
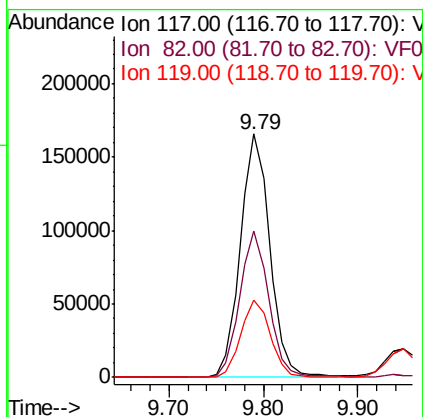
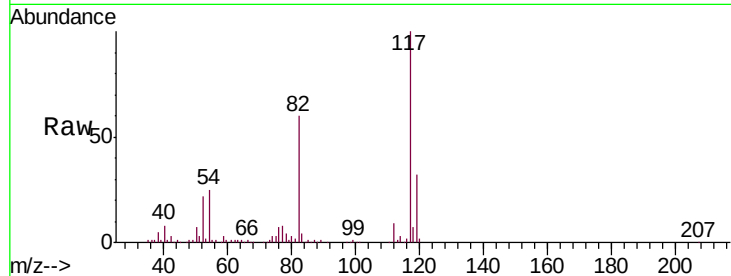




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

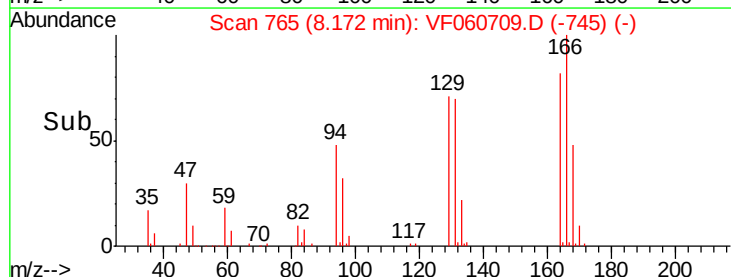
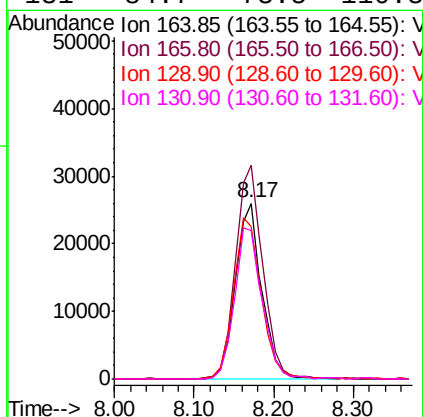
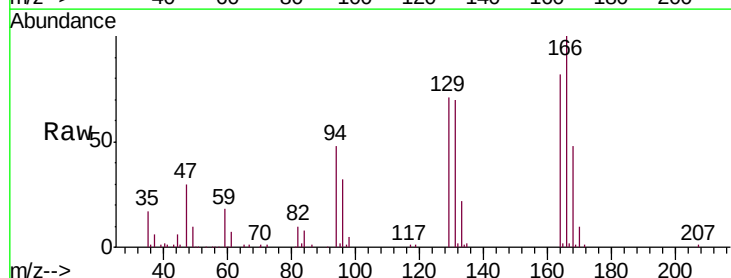
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

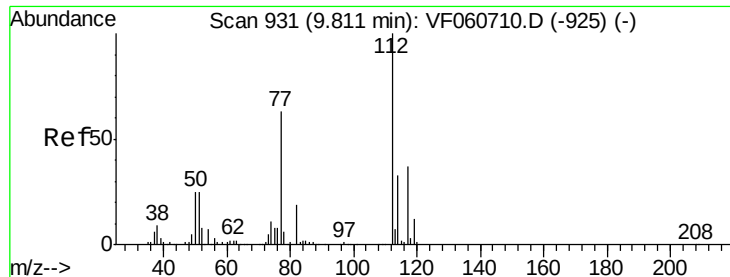
Tgt Ion:117 Resp: 359251
Ion Ratio Lower Upper
117 100
82 60.1 47.9 71.9
119 31.8 26.8 40.2



#64
Tetrachloroethene
Concen: 21.093 ug/l
RT: 8.17 min Scan# 765
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion:164 Resp: 60006
Ion Ratio Lower Upper
164 100
166 121.7 103.5 155.3
129 87.0 77.4 116.2
131 84.7 73.5 110.3

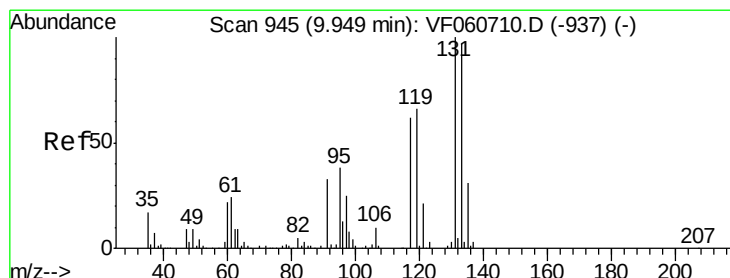
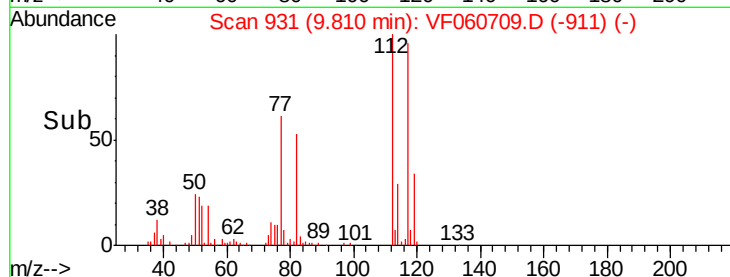
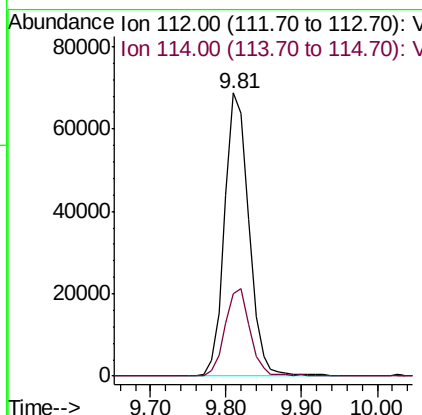
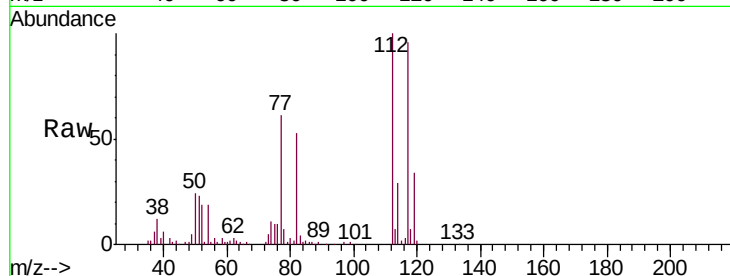




#65
Chlorobenzene
Concen: 21.186 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

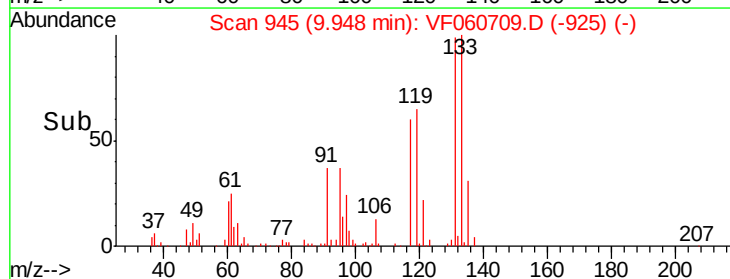
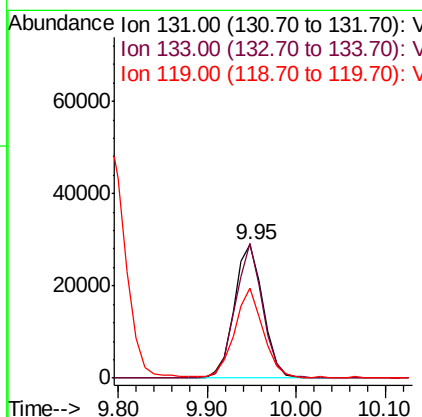
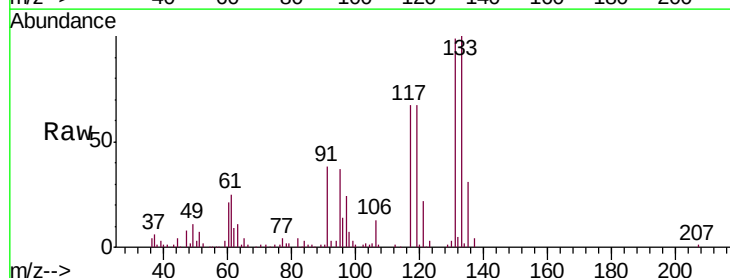
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

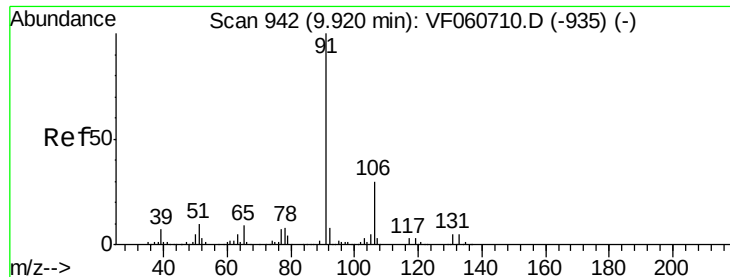
Tgt Ion:112 Resp: 153587
Ion Ratio Lower Upper
112 100
114 29.0 26.1 39.1



#66
1,1,1,2-Tetrachloroethane
Concen: 20.644 ug/l
RT: 9.95 min Scan# 945
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion:131 Resp: 65275
Ion Ratio Lower Upper
131 100
133 101.1 48.3 144.8
119 67.4 33.2 99.6





#67

Ethyl Benzene

Concen: 21.324 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

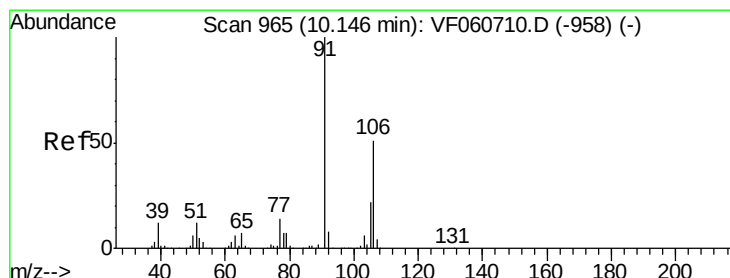
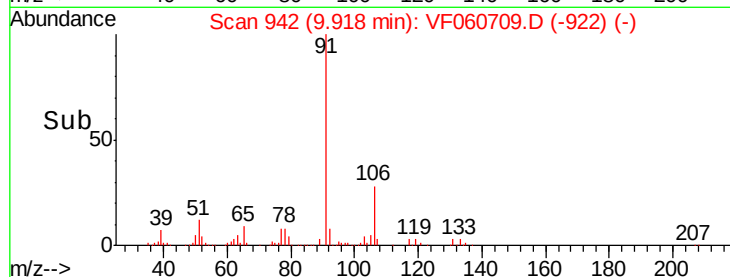
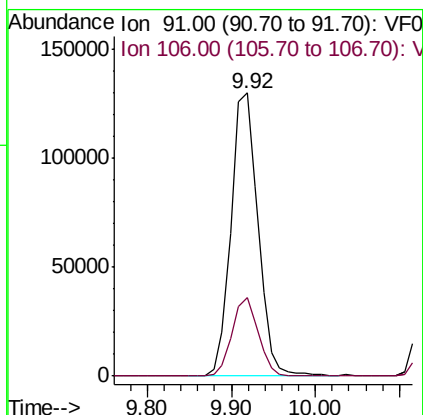
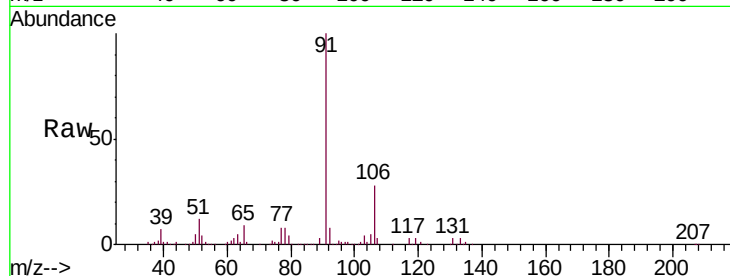
VSTDIC020

Tgt Ion: 91 Resp: 291390

Ion Ratio Lower Upper

91 100

106 27.9 23.9 35.9



#68

m/p-Xylenes

Concen: 42.753 ug/l

RT: 10.15 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF060709.D

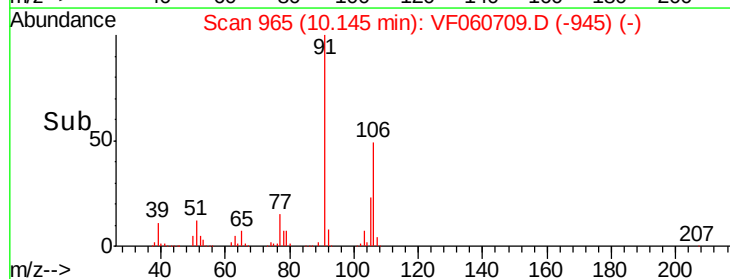
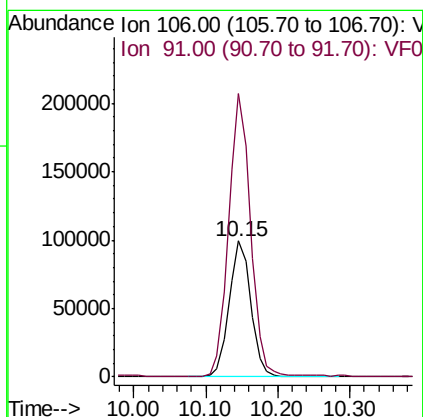
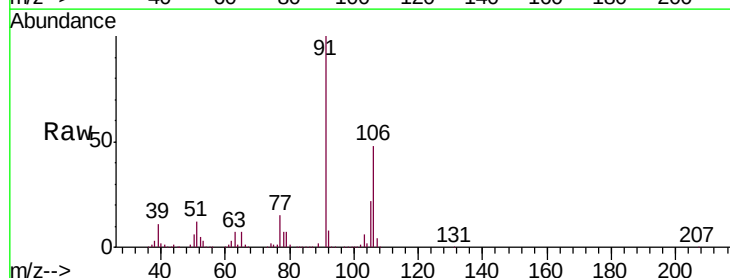
Acq: 13 Nov 2018 12:35

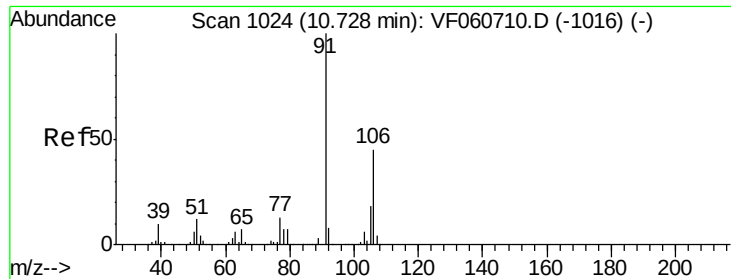
Tgt Ion: 106 Resp: 208779

Ion Ratio Lower Upper

106 100

91 208.4 158.2 237.2

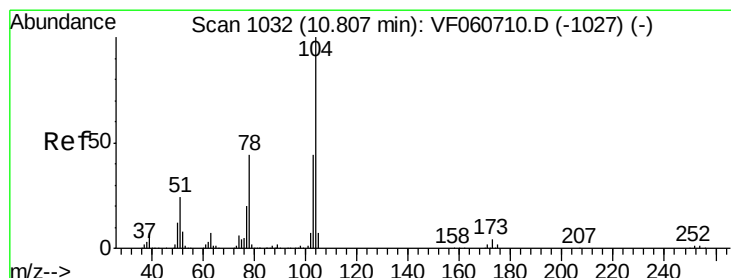
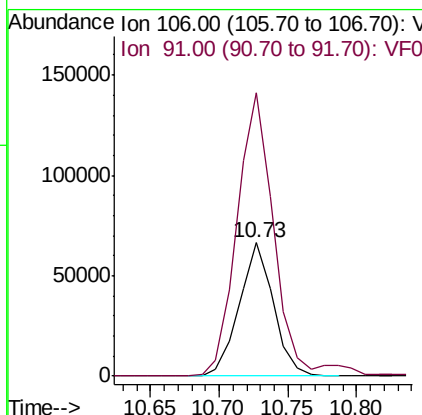
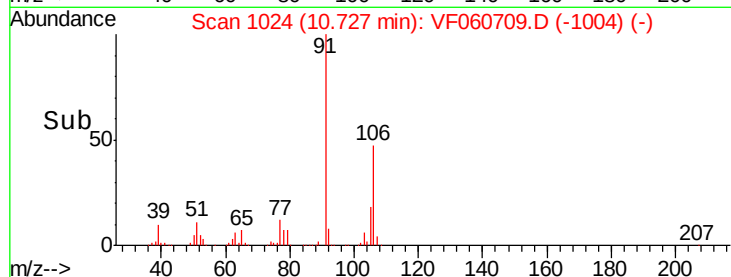
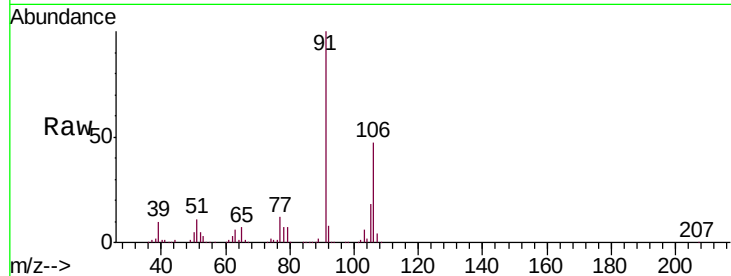




#69
o-Xylene
Concen: 21.068 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

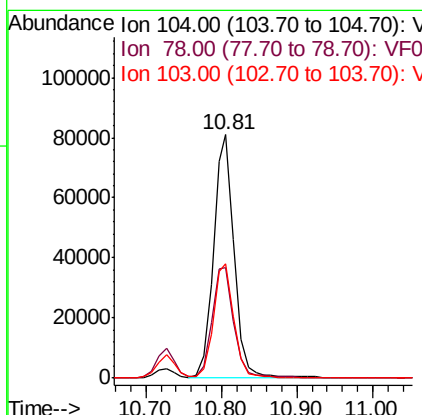
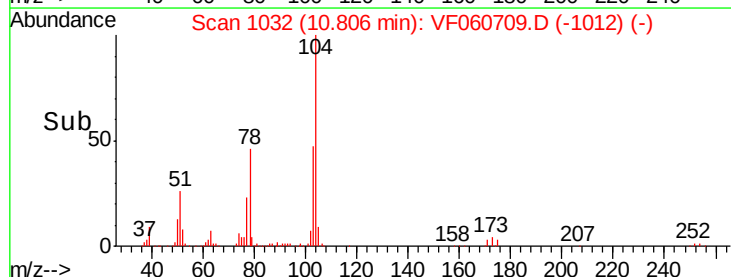
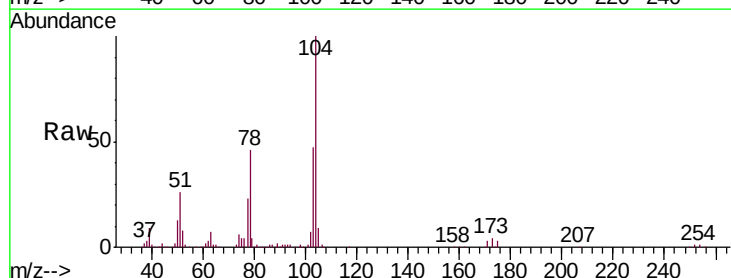
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

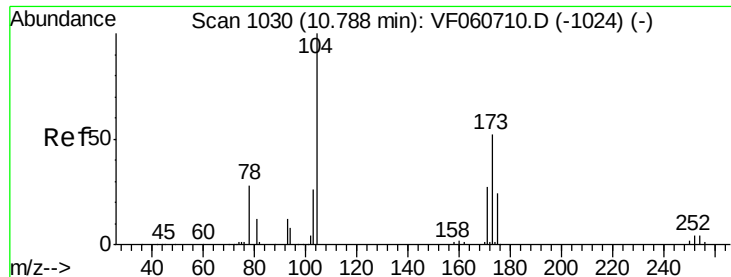
Tgt Ion:106 Resp: 115671
Ion Ratio Lower Upper
106 100
91 212.1 110.3 330.9



#70
Styrene
Concen: 20.699 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion:104 Resp: 154234
Ion Ratio Lower Upper
104 100
78 45.6 35.4 53.2
103 47.0 35.8 53.6





#71

Bromoform

Concen: 20.546 ug/l

RT: 10.79 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

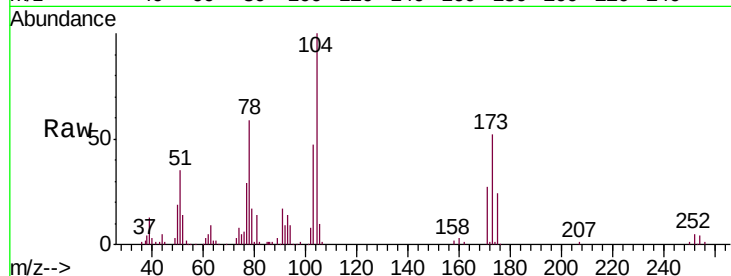
Tgt Ion:173 Resp: 29214

Ion Ratio Lower Upper

173 100

175 47.7 23.4 70.0

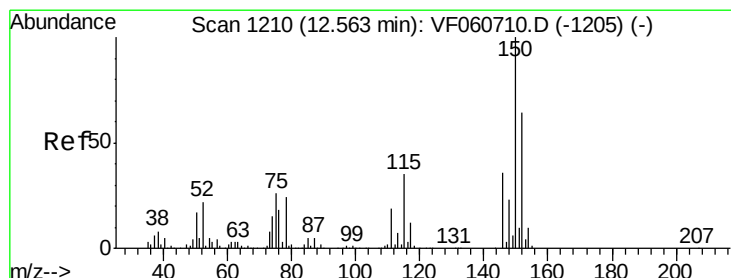
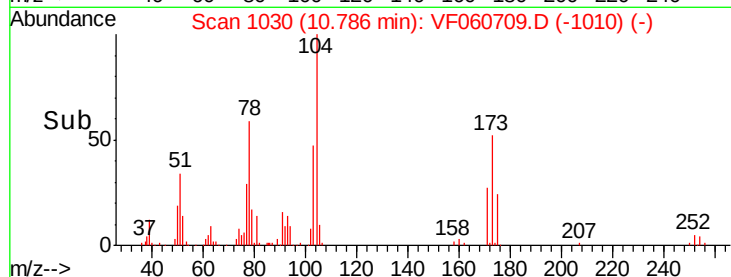
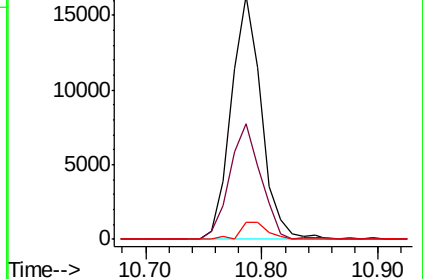
254 6.9 5.8 8.8



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: 12.56 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

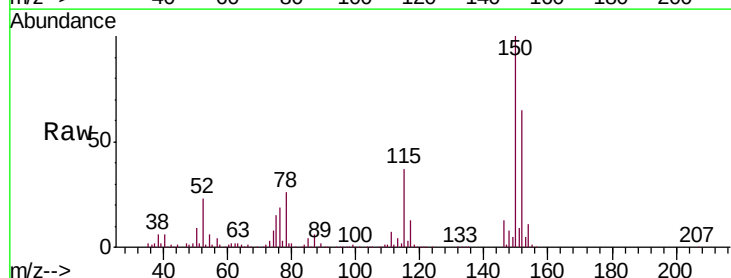
Tgt Ion:152 Resp: 201995

Ion Ratio Lower Upper

152 100

115 57.3 27.9 83.7

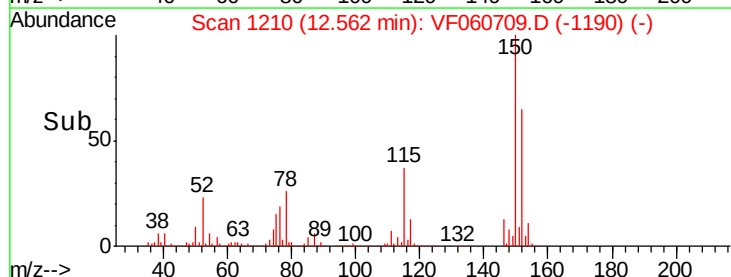
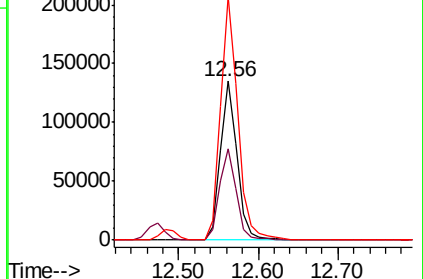
150 153.3 0.0 316.4

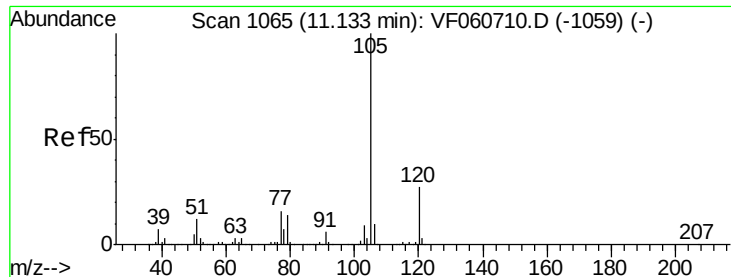


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.349 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

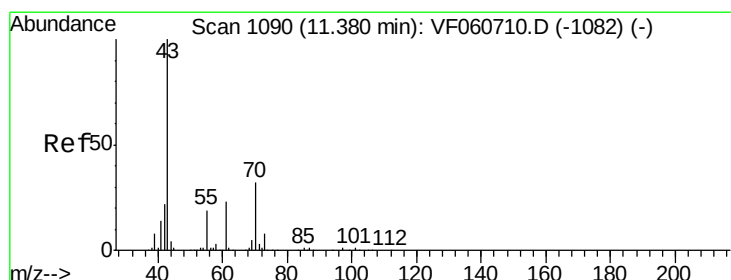
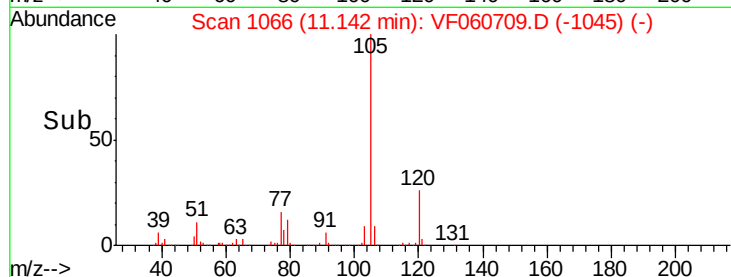
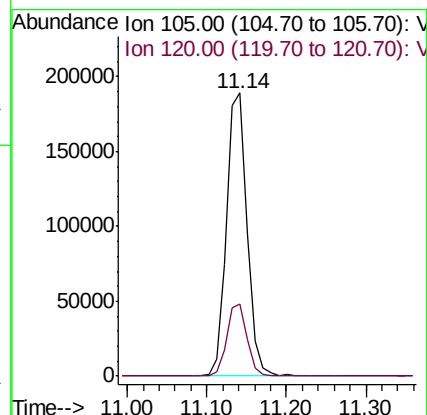
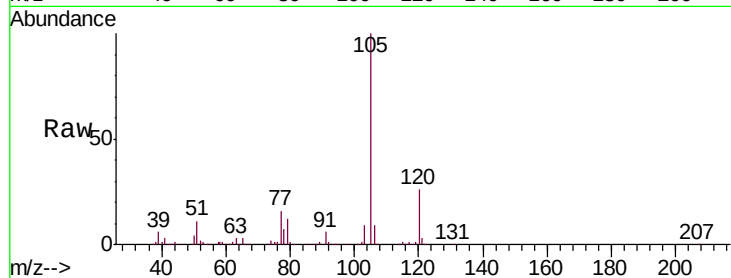
VSTDIC020

Tgt Ion:105 Resp: 347112

Ion Ratio Lower Upper

105 100

120 25.6 13.4 40.1



#74

N-ethyl acetate

Concen: 21.667 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Tgt Ion: 43 Resp: 80200

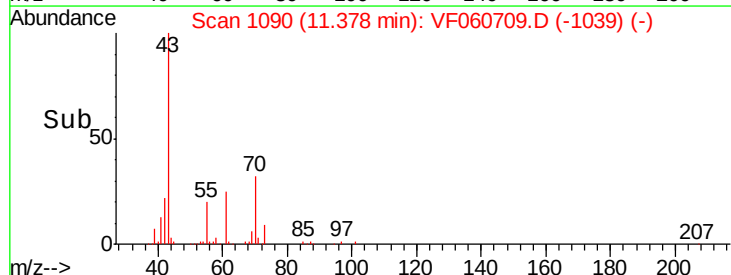
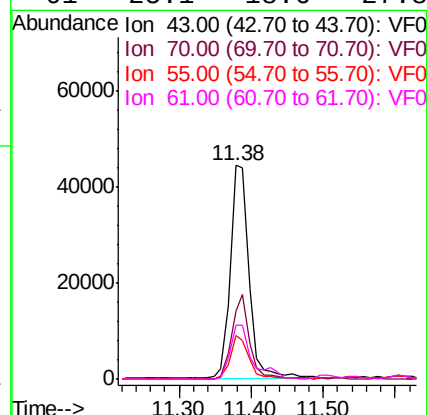
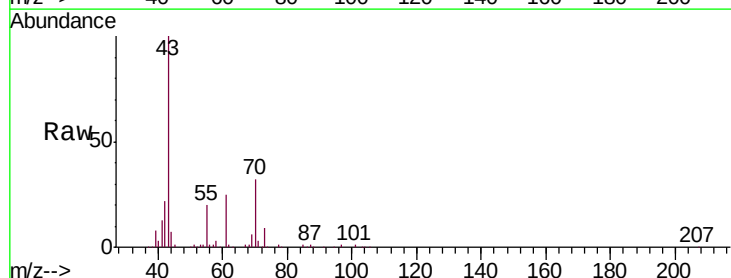
Ion Ratio Lower Upper

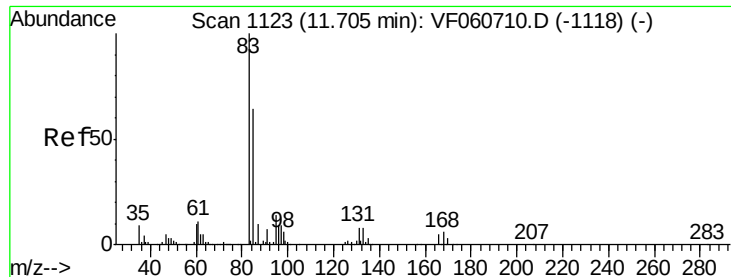
43 100

70 31.5 25.5 38.3

55 20.4 14.9 22.3

61 25.1 18.6 27.8





#75

1,1,2,2-Tetrachloroethane

Concen: 20.694 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

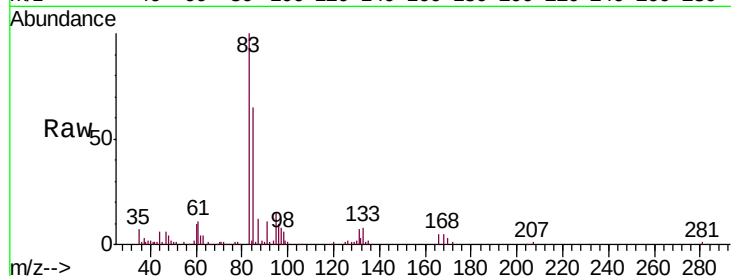
Tgt Ion: 83 Resp: 55627

Ion Ratio Lower Upper

83 100

131 7.2 4.2 12.4

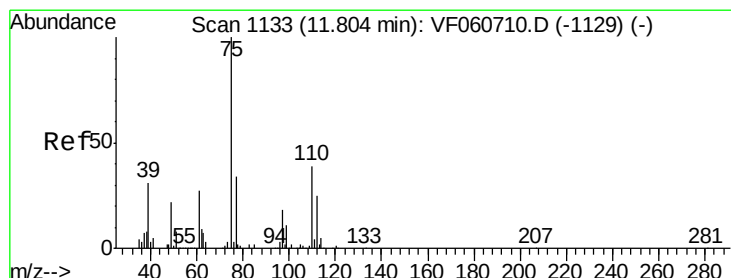
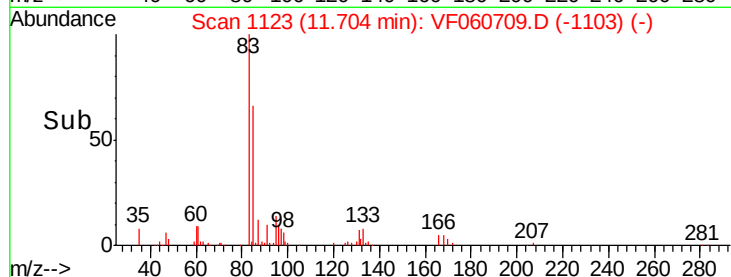
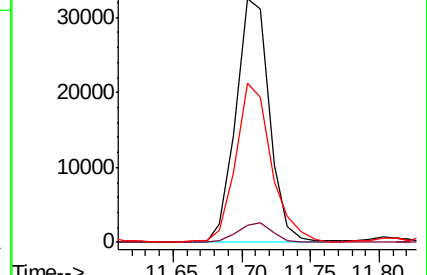
85 65.1 32.0 96.2



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 21.917 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VF060709.D

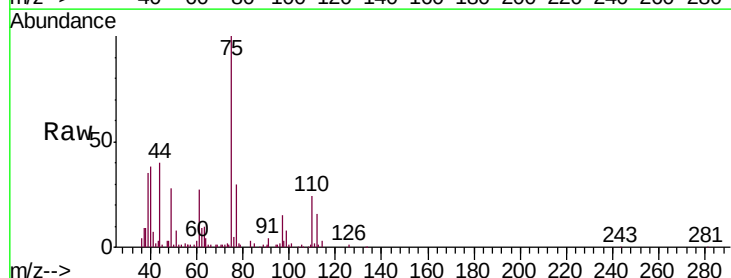
Acq: 13 Nov 2018 12:35

Tgt Ion: 75 Resp: 43756

Ion Ratio Lower Upper

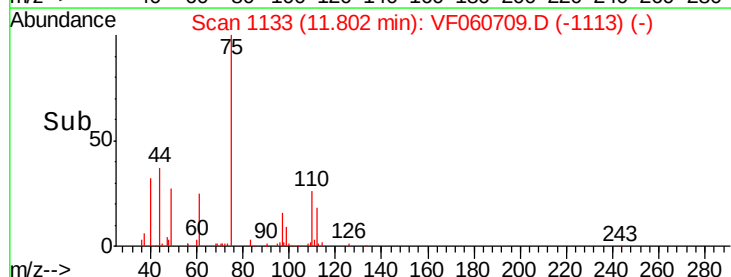
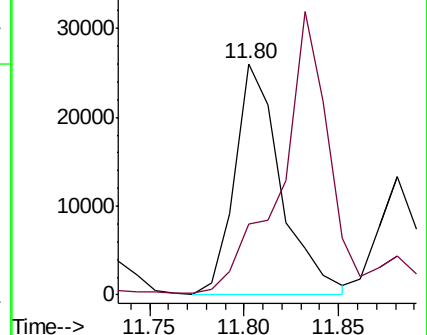
75 100

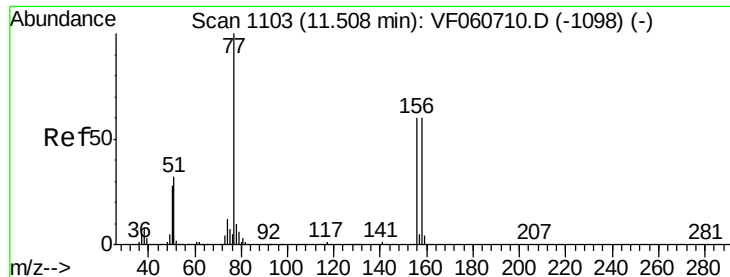
77 30.5 17.0 51.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.947 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

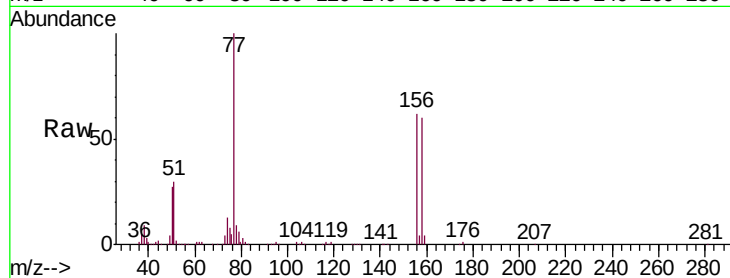
Tgt Ion:156 Resp: 70893

Ion Ratio Lower Upper

156 100

77 160.6 83.0 248.9

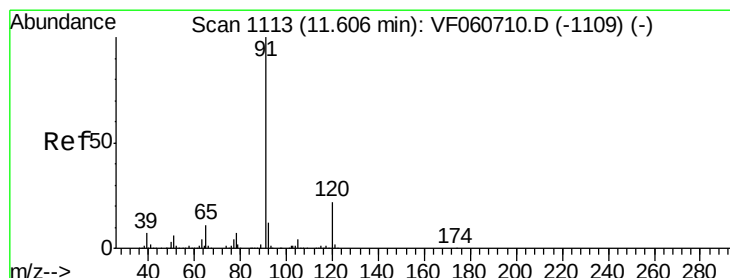
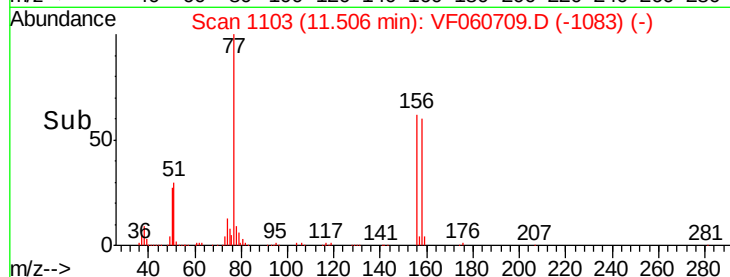
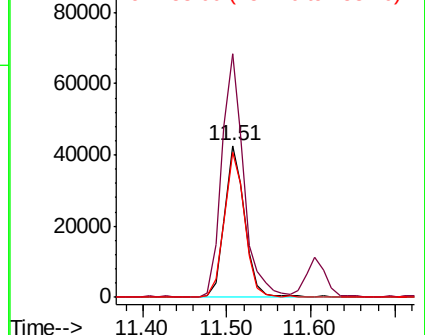
158 95.8 49.6 149.0



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: 22.077 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF060709.D

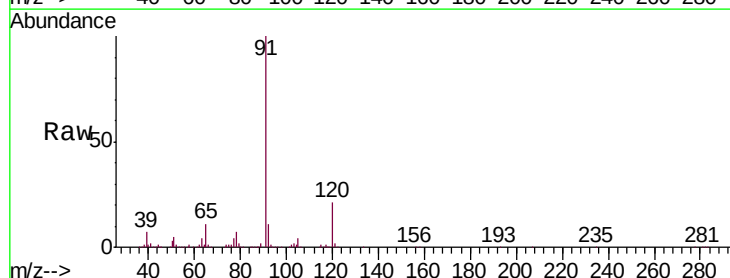
Acq: 13 Nov 2018 12:35

Tgt Ion: 91 Resp: 418635

Ion Ratio Lower Upper

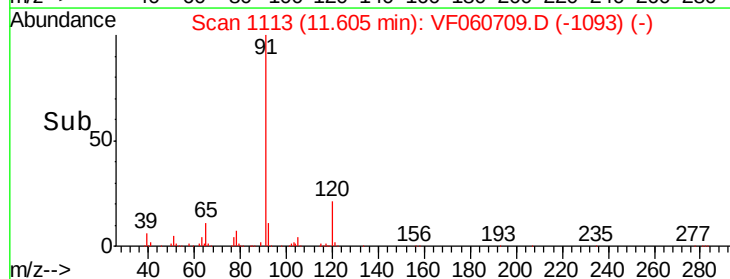
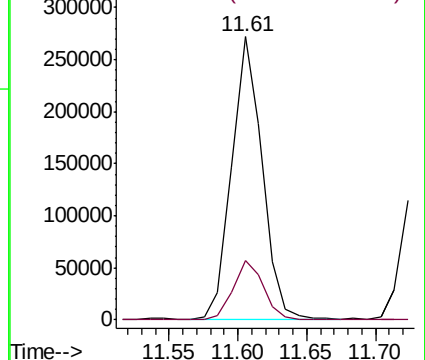
91 100

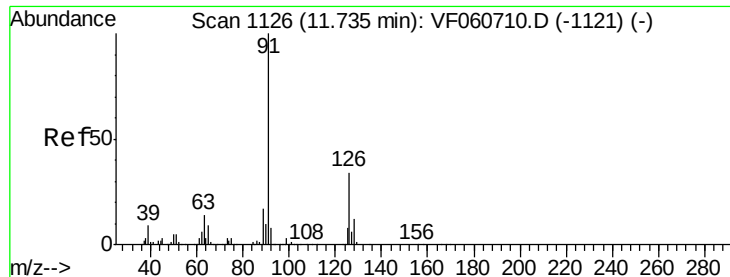
120 21.1 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.471 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

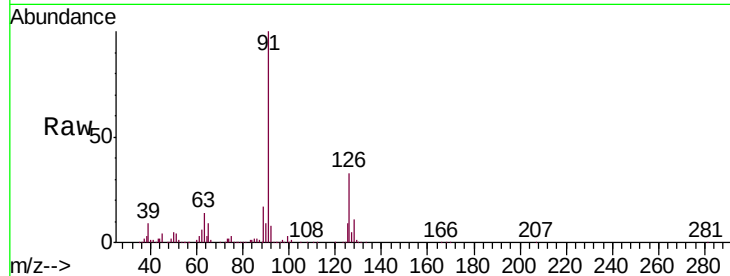
VSTDIC020

Tgt Ion: 91 Resp: 236638

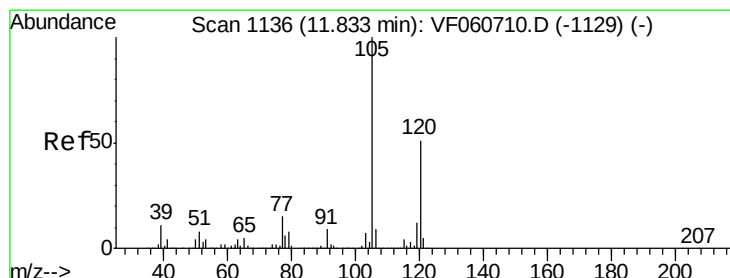
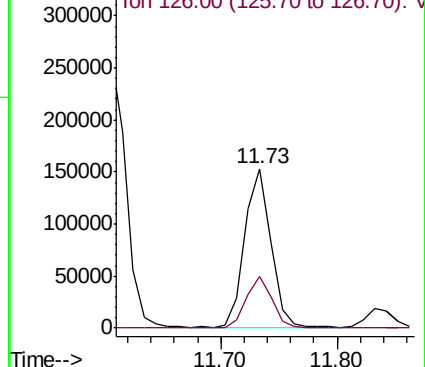
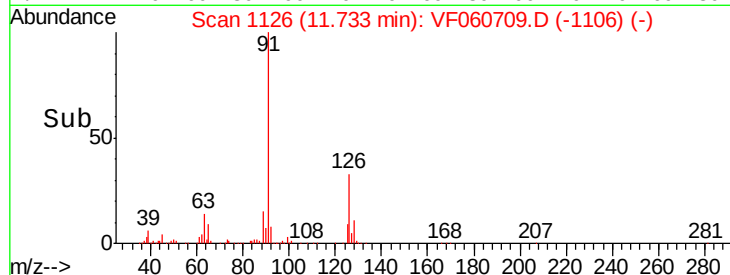
Ion Ratio Lower Upper

91 100

126 32.8 16.8 50.4



Abundance Ion 91.00 (90.70 to 91.70): VF060709.D (-1106) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.553 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VF060709.D

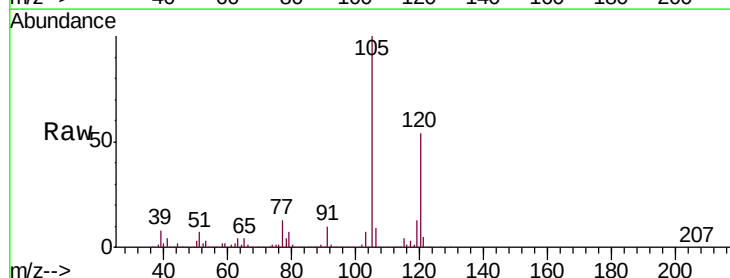
Acq: 13 Nov 2018 12:35

Tgt Ion: 105 Resp: 252397

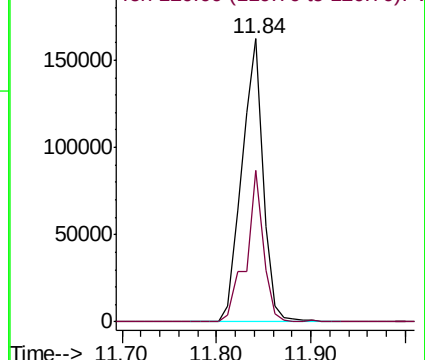
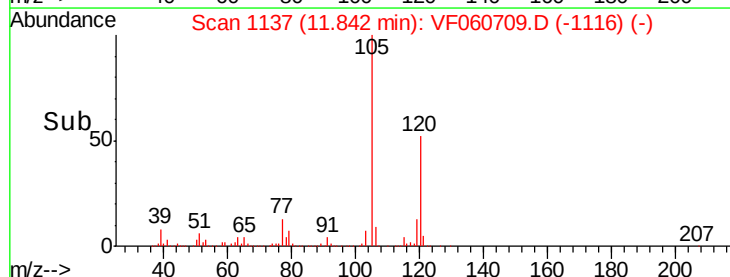
Ion Ratio Lower Upper

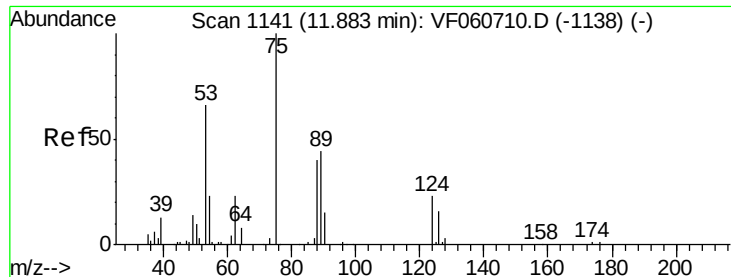
105 100

120 53.6 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VF060709.D (-1116) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 28.570 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

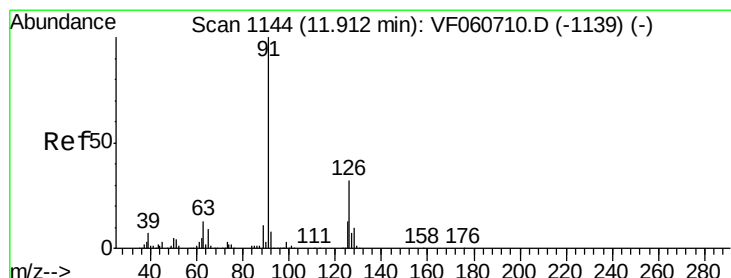
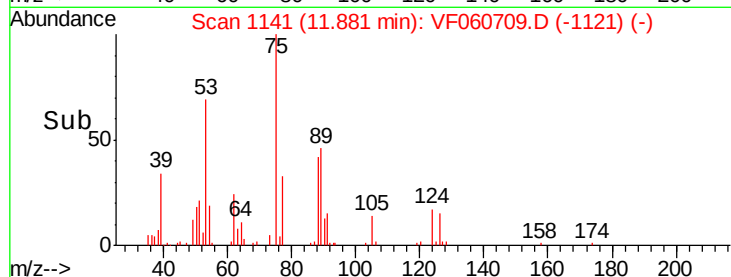
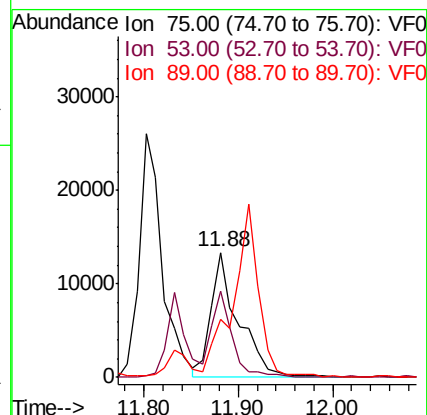
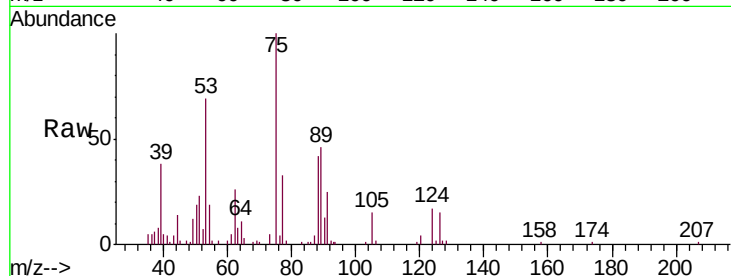
Tgt Ion: 75 Resp: 27366

Ion Ratio Lower Upper

75 100

53 69.2 57.0 85.4

89 46.2 37.8 56.8



#82

4-Chlorotoluene

Concen: 21.691 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF060709.D

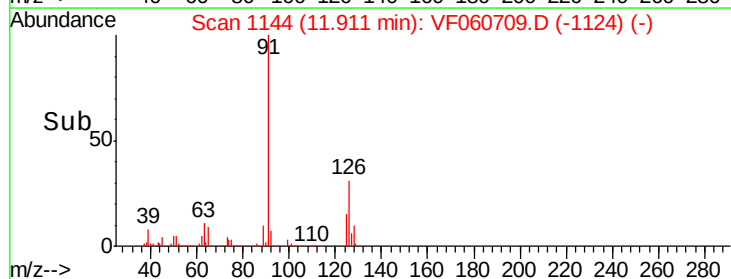
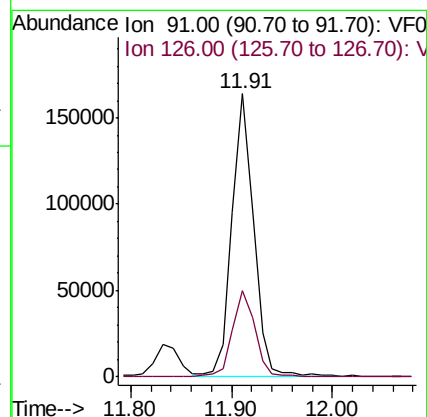
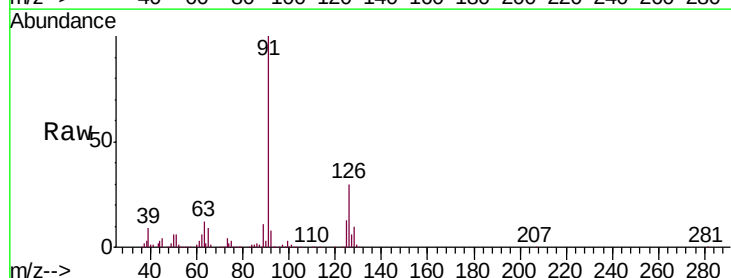
Acq: 13 Nov 2018 12:35

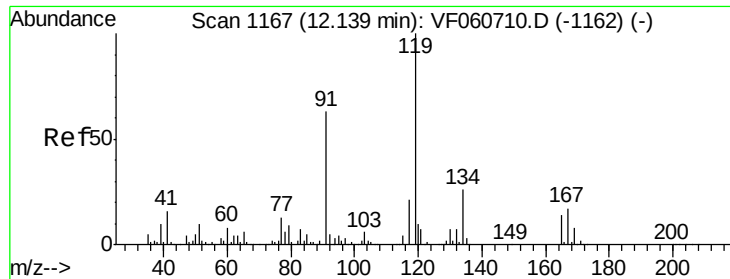
Tgt Ion: 91 Resp: 244912

Ion Ratio Lower Upper

91 100

126 30.3 16.0 47.9

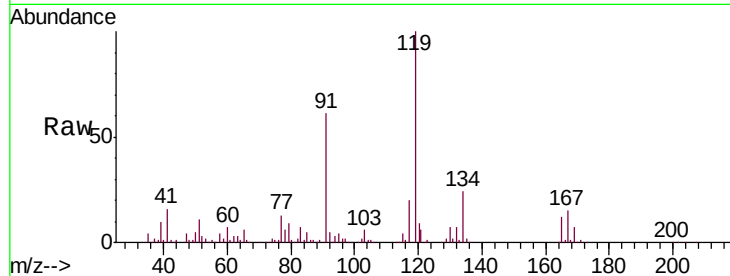




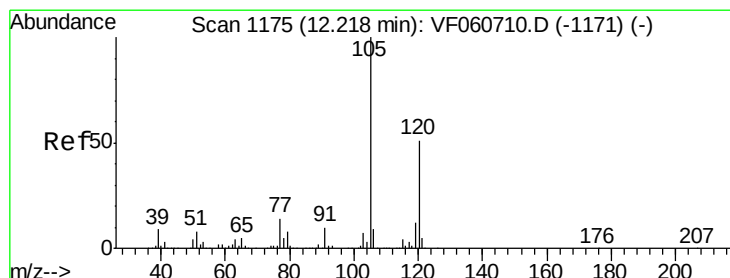
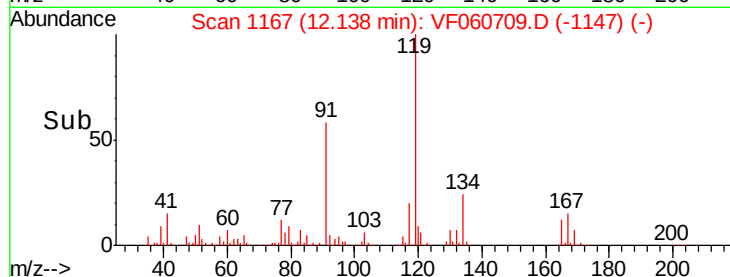
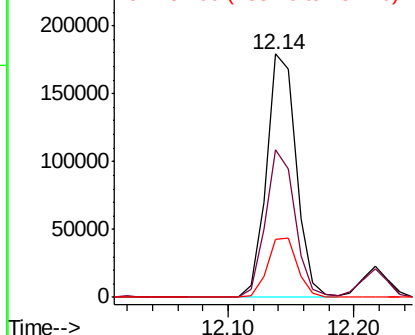
#83
 tert-Butylbenzene
 Concen: 21.523 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tgt Ion:119 Resp: 294984
 Ion Ratio Lower Upper
 119 100
 91 60.5 31.4 94.3
 134 24.1 12.8 38.4

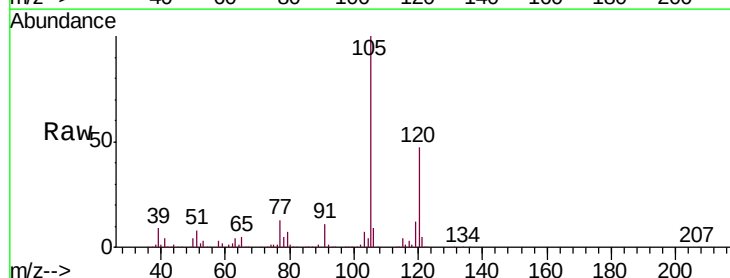


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

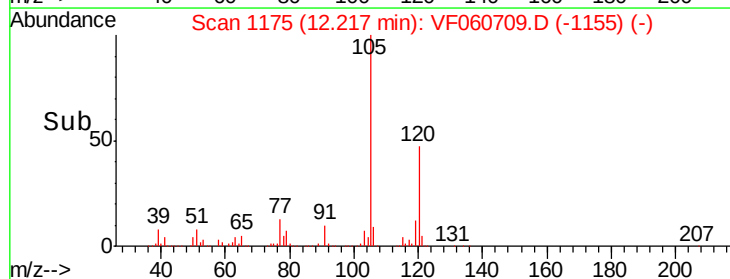
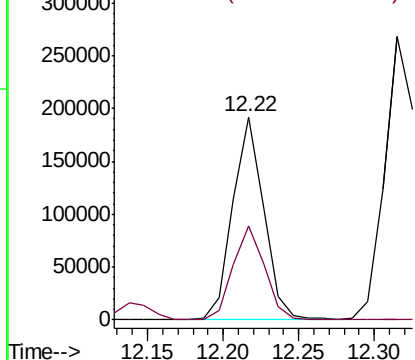


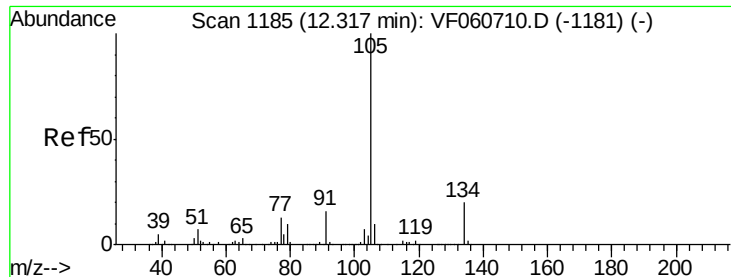
#84
 1,2,4-Trimethylbenzene
 Concen: 20.522 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion:105 Resp: 273977
 Ion Ratio Lower Upper
 105 100
 120 46.6 25.5 76.5



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





#85

sec-Butylbenzene

Concen: 21.433 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

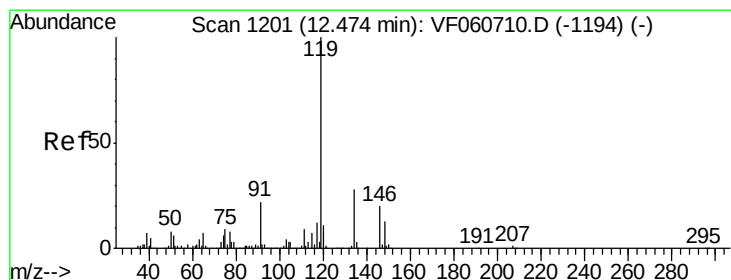
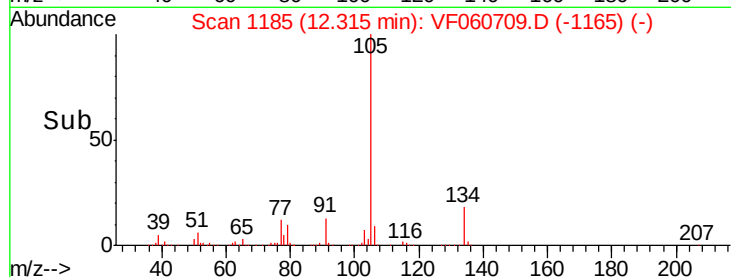
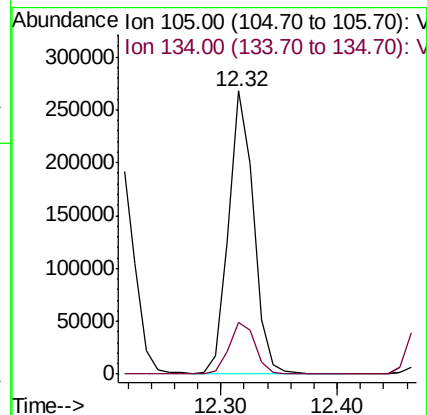
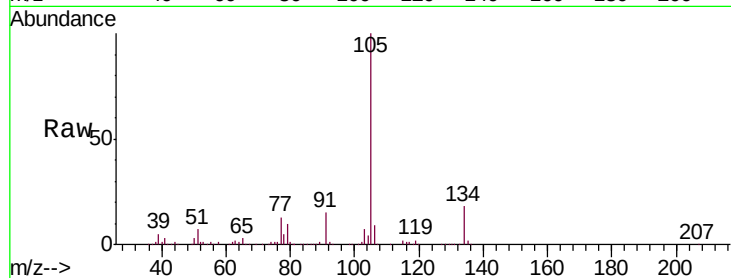
VSTDIC020

Tgt Ion:105 Resp: 398493

Ion Ratio Lower Upper

105 100

134 18.5 10.1 30.3



#86

p-Isopropyltoluene

Concen: 21.013 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

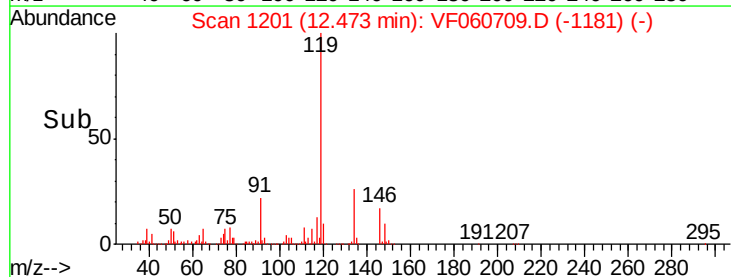
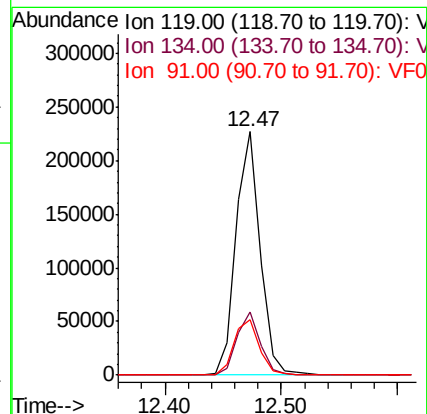
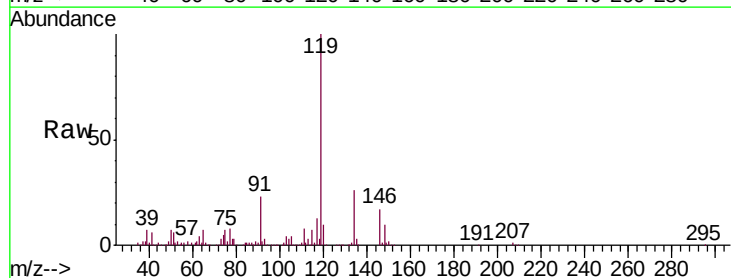
Tgt Ion:119 Resp: 326294

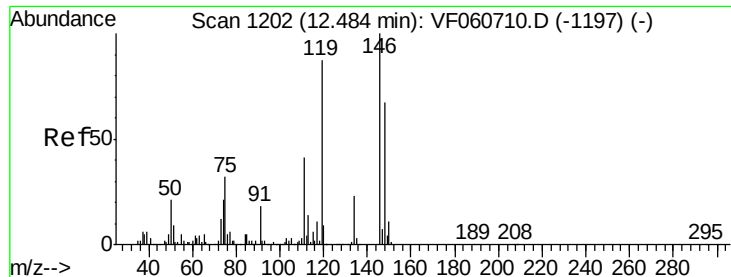
Ion Ratio Lower Upper

119 100

134 26.0 13.9 41.7

91 22.6 11.3 33.9

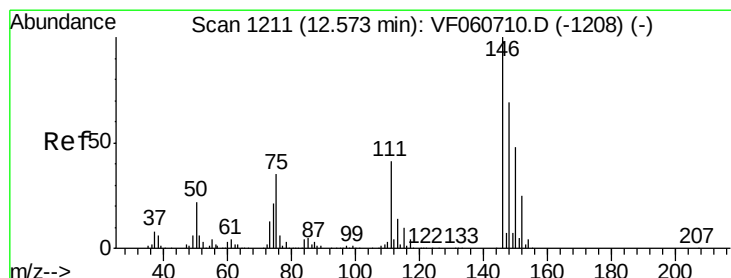
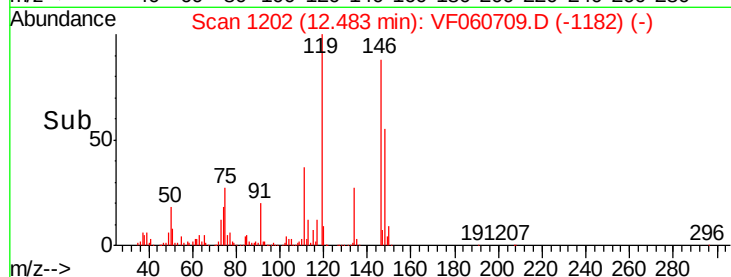
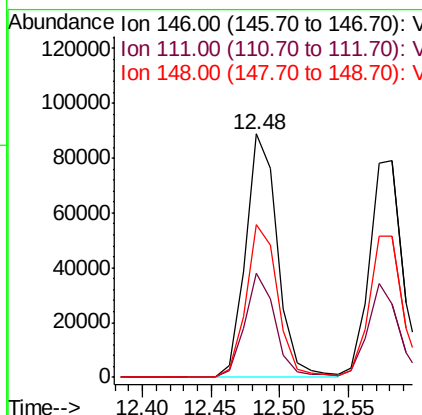
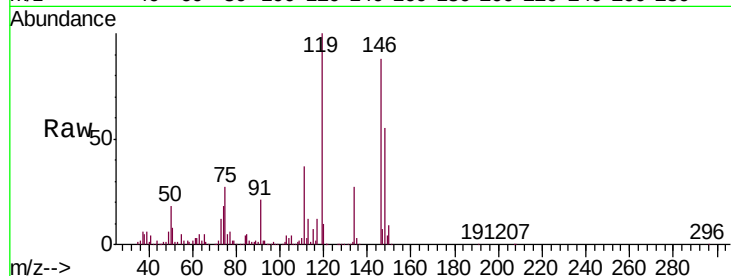




#87
 1,3-Dichlorobenzene
 Concen: 21.446 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

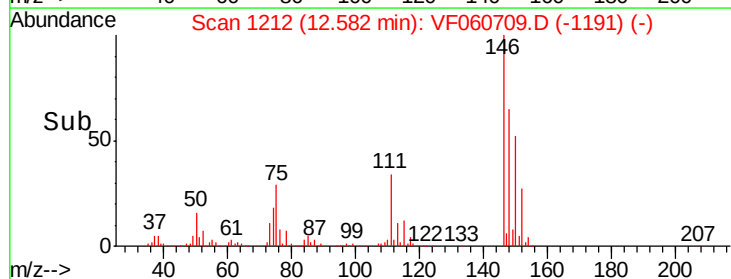
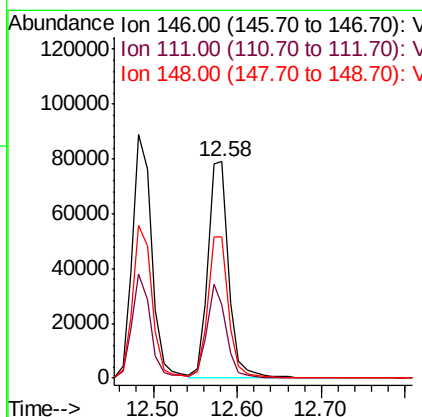
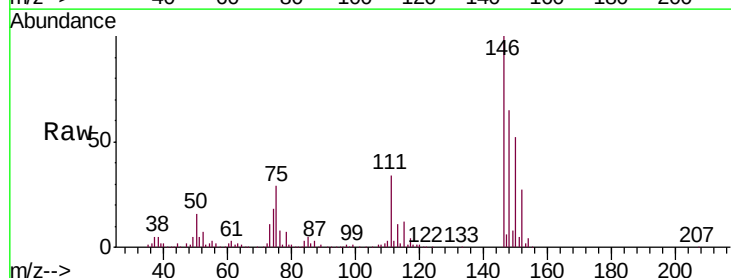
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

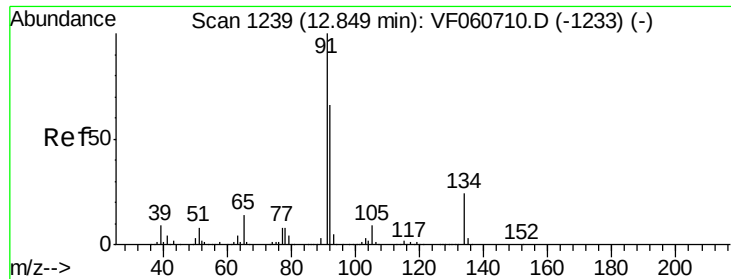
Tgt Ion:146 Resp: 144440
 Ion Ratio Lower Upper
 146 100
 111 42.5 20.3 60.8
 148 62.5 33.3 99.9



#88
 1,4-Dichlorobenzene
 Concen: 20.803 ug/l
 RT: 12.58 min Scan# 1212
 Delta R.T. 0.01 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion:146 Resp: 134662
 Ion Ratio Lower Upper
 146 100
 111 34.0 20.6 61.9
 148 65.2 34.7 104.1





#89

n-Butylbenzene

Concen: 22.218 ug/l

RT: 12.86 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VF060709.D

Acq: 13 Nov 2018 12:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

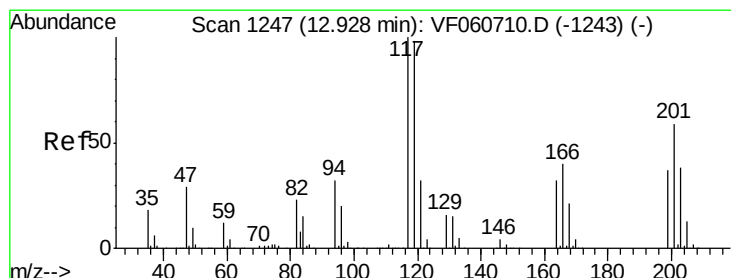
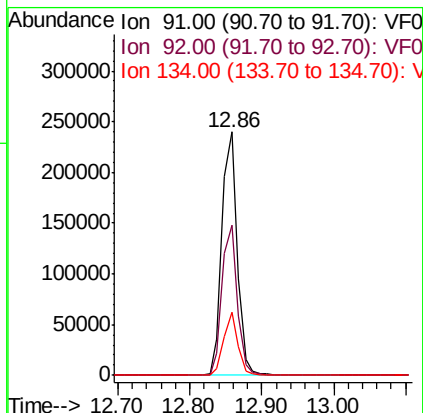
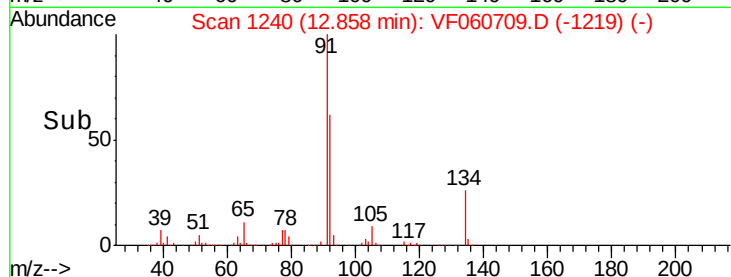
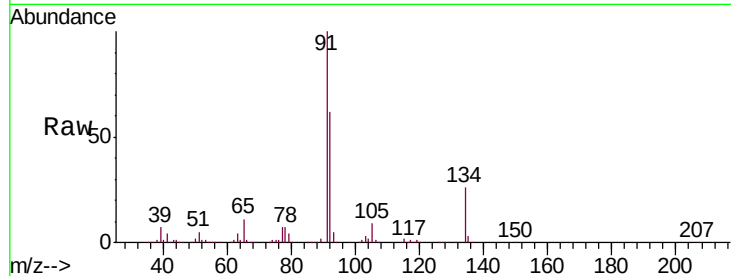
Tgt Ion: 91 Resp: 352083

Ion Ratio Lower Upper

91 100

92 61.6 33.1 99.2

134 26.0 11.9 35.9



#90

Hexachloroethane

Concen: 21.915 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VF060709.D

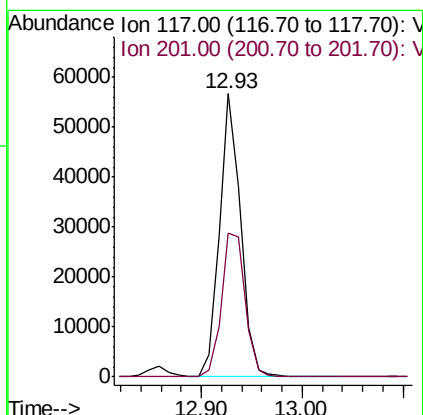
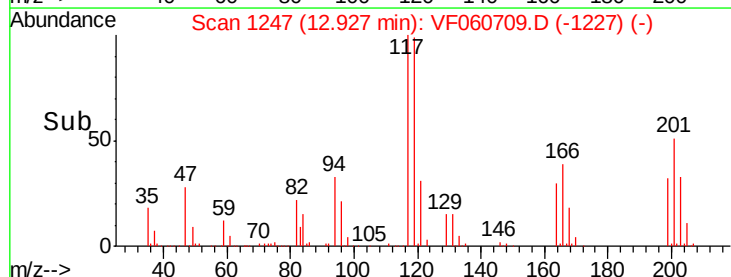
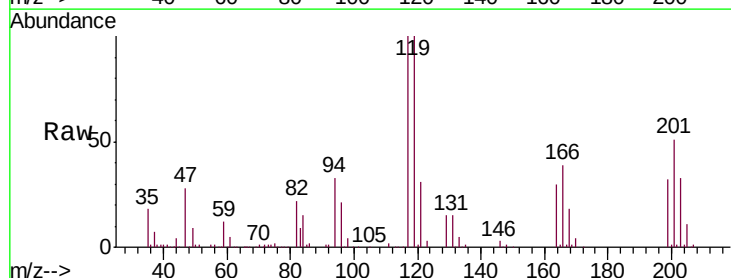
Acq: 13 Nov 2018 12:35

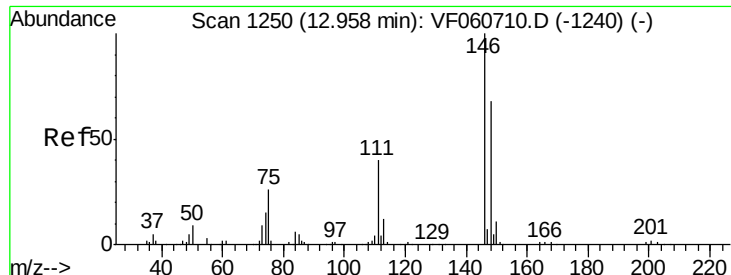
Tgt Ion: 117 Resp: 83231

Ion Ratio Lower Upper

117 100

201 50.6 29.4 88.3

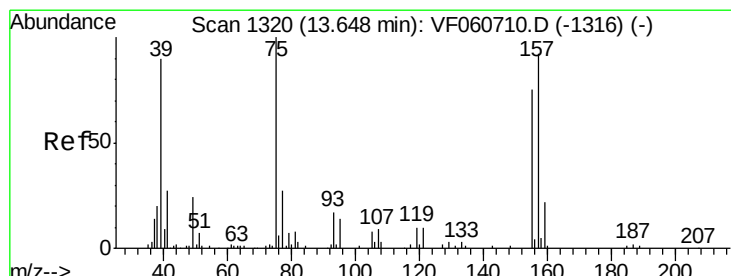
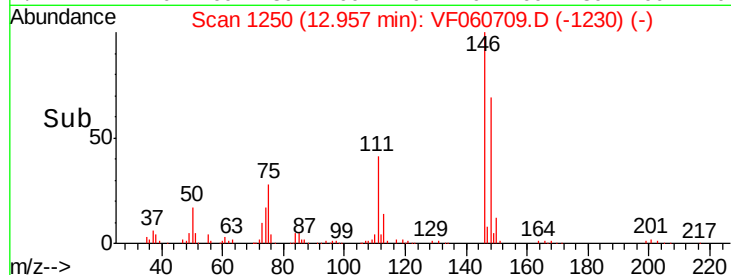
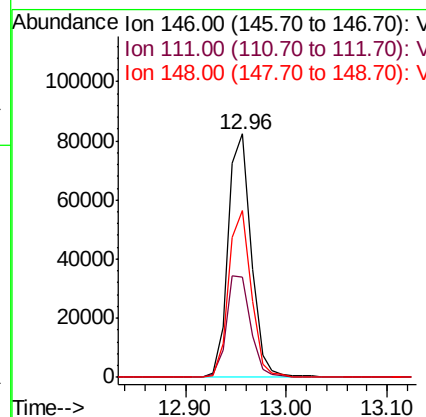
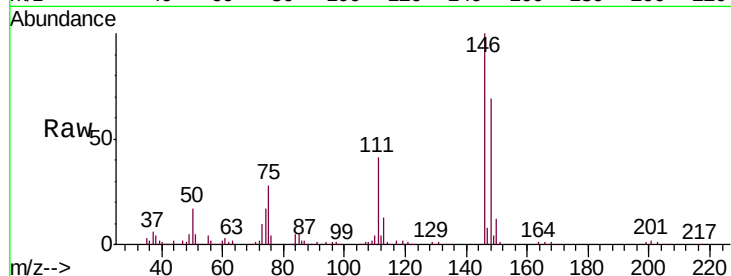




#91
 1,2-Dichlorobenzene
 Concen: 20.841 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

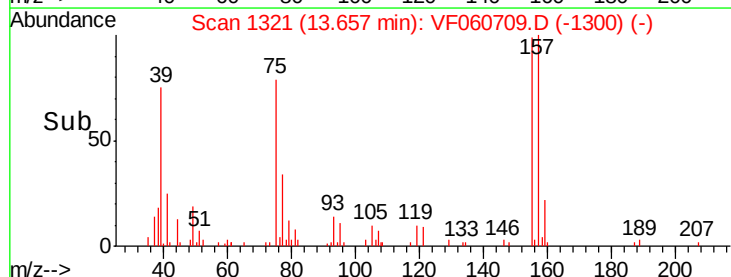
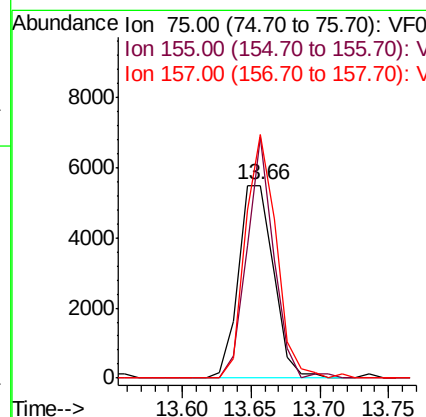
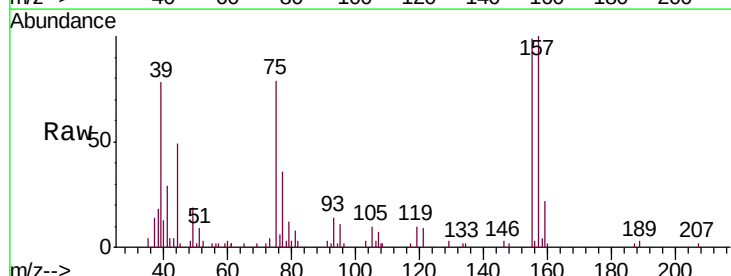
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

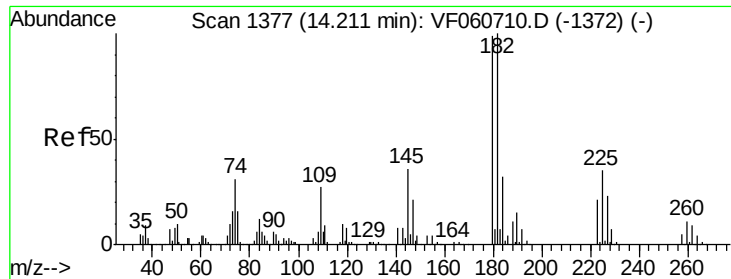
Tgt Ion: 146 Resp: 132164
 Ion Ratio Lower Upper
 146 100
 111 41.3 20.3 60.8
 148 68.8 34.1 102.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.333 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion: 75 Resp: 9768
 Ion Ratio Lower Upper
 75 100
 155 125.1 37.4 112.2#
 157 126.3 46.0 138.0

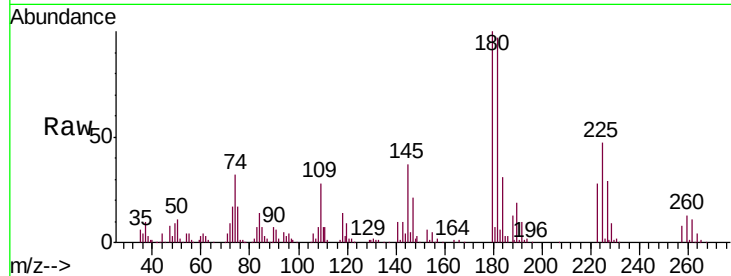




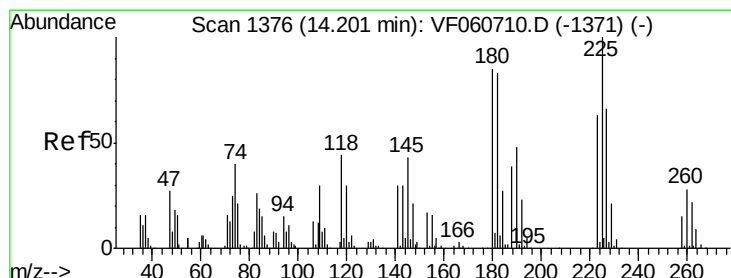
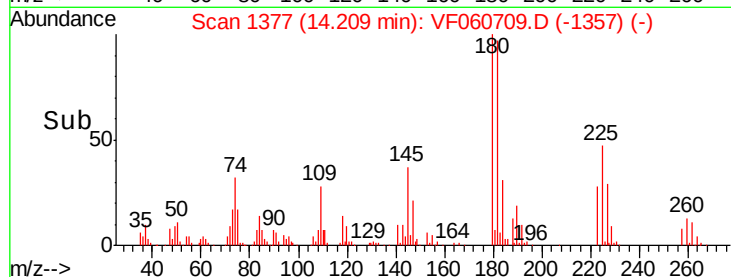
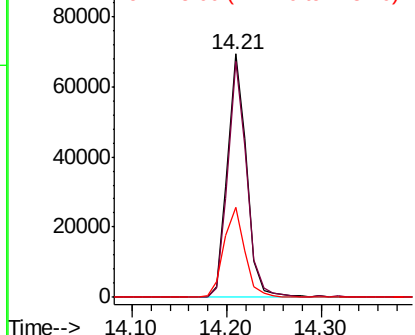
#93
 1,2,4-Trichlorobenzene
 Concen: 21.528 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tgt Ion:180 Resp: 98128
 Ion Ratio Lower Upper
 180 100
 182 96.7 50.3 151.0
 145 36.7 18.3 54.9

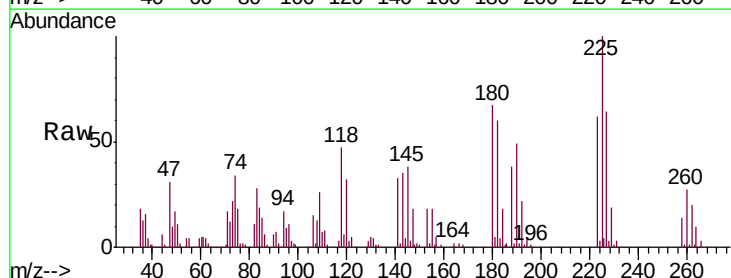


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

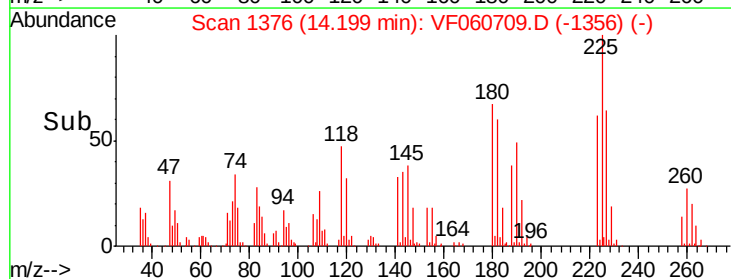
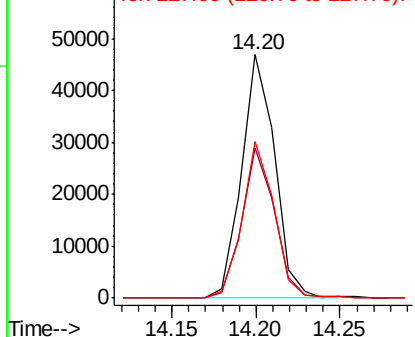


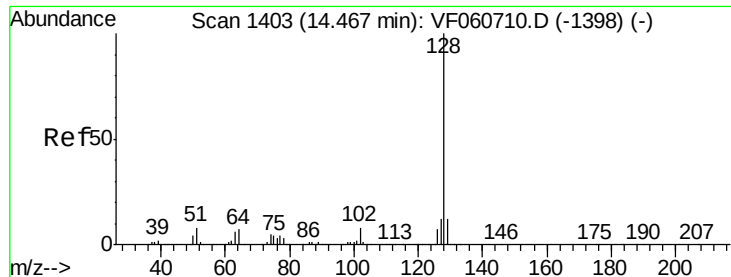
#94
 Hexachlorobutadiene
 Concen: 21.462 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF060709.D
 Acq: 13 Nov 2018 12:35

Tgt Ion:225 Resp: 63926
 Ion Ratio Lower Upper
 225 100
 223 61.5 31.5 94.5
 227 64.1 33.0 99.0



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

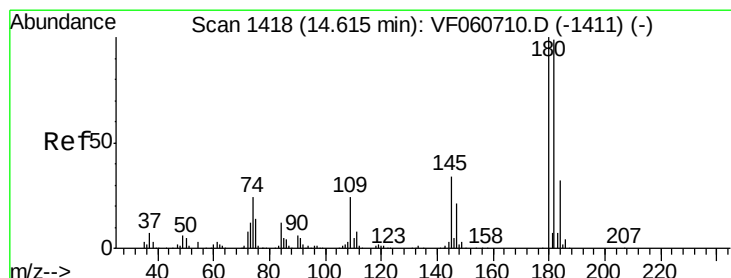
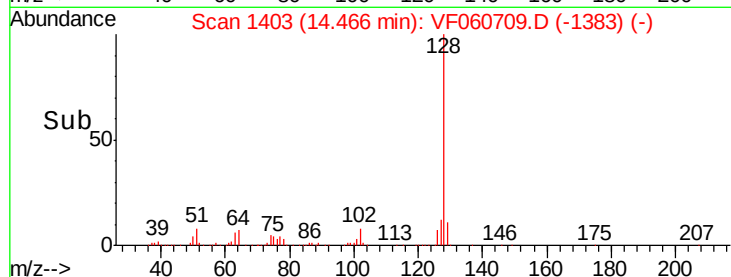
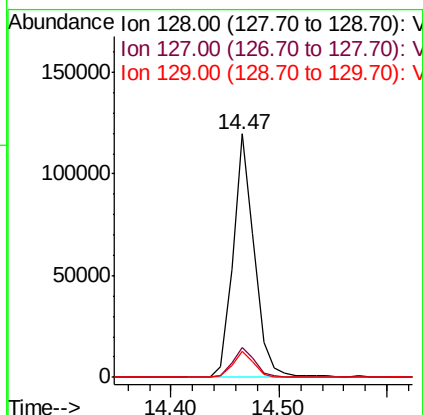
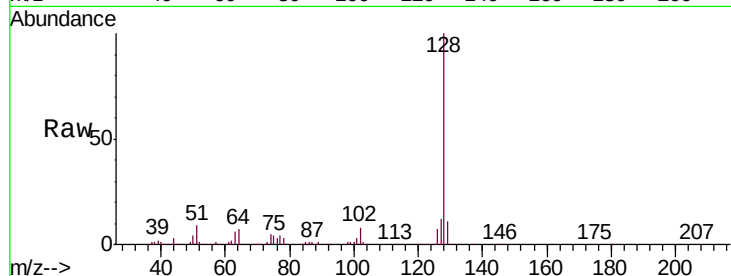




#95
Naphthalene
Concen: 19.682 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion:128 Resp: 163696
Ion Ratio Lower Upper
128 100
127 12.0 9.8 14.6
129 10.9 9.3 13.9



#96
1,2,3-Trichlorobenzene
Concen: 20.646 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. -0.00 min
Lab File: VF060709.D
Acq: 13 Nov 2018 12:35

Tgt Ion:180 Resp: 86960
Ion Ratio Lower Upper
180 100
182 97.4 49.6 149.0
145 33.7 16.9 50.7

