

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100418\
 Data File : VF060453.D
 Acq On : 4 Oct 2018 23:12
 Operator : VA/AP
 Sample : J5238-01
 Misc : 5.23/5mL/MSVOA F/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Oct 05 01:14:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	10663	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	11952	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	3756	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.75	152	86	50.00	ug/l	0.13

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	2172	13.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	26.04%	
35) Dibromofluoromethane	4.28	113	2436	21.70	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	43.40%	
50) Toluene-d8	7.69	98	7649	27.66	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	55.32%	
62) 4-Bromofluorobenzene	11.50	95	550	4.36	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	8.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	173	Below Cal	#	43
5) Bromomethane	1.27	94	182	1.560	ug/l	82
6) Chloroethane	1.36	64	291	3.871	ug/l #	42
8) Diethyl Ether	1.72	74	64	1.336	ug/l	74
11) Tert butyl alcohol	2.61	59	89	8.819	ug/l #	77
13) Acrolein	2.08	56	77	9.487	ug/l #	16
14) Allyl chloride	2.17	41	644	3.107	ug/l #	48
15) Acrylonitrile	3.04	53	430	24.865	ug/l #	36
16) Acetone	2.31	43	350	Below Cal	#	66
18) Methyl Acetate	2.42	43	281	2.803	ug/l #	57
20) Methylene Chloride	2.25	84	117	Below Cal	#	1
23) Vinyl Acetate	3.29	43	444	2.971	ug/l #	81
25) 2-Butanone	4.49	43	296	6.851	ug/l #	60
26) 2,2-Dichloropropane	3.70	77	196	1.360	ug/l #	61
27) cis-1,2-Dichloroethene	3.68	96	189	1.309	ug/l	1
29) Tetrahydrofuran	4.21	42	61	Below Cal	#	1
37) Ethyl Acetate	4.30	43	76	1.347	ug/l #	1
41) Methacrylonitrile	4.90	41	547	18.282	ug/l #	36
43) Isopropyl Acetate	7.09	43	248	3.637	ug/l #	41
45) 1,2-Dichloropropane	6.48	63	158	2.028	ug/l #	46
48) Methyl methacrylate	6.87	41	654	13.360	ug/l #	56
49) 1,4-Dioxane	6.95	88	59	139.786	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	590	12.154	ug/l #	39
55) 1,1,2-Trichloroethane	8.56	97	92	1.461	ug/l #	18
56) Ethyl methacrylate	8.76	69	84	1.174	ug/l #	1
57) 1,3-Dichloropropane	8.91	76	134	1.258	ug/l #	43
58) 2-Chloroethyl Vinyl ether	7.74	63	79	10.807	ug/l	100
59) 2-Hexanone	9.63	43	405	11.375	ug/l #	27
61) 1,2-Dibromoethane	9.25	107	75	1.088	ug/l #	4
64) Tetrachloroethene	8.32	164	197	6.598	ug/l #	1
65) Chlorobenzene	9.93	112	155	2.009	ug/l #	40
66) 1,1,1,2-Tetrachloroethane	10.17	131	212	6.293	ug/l #	9
67) Ethyl Benzene	10.03	91	204	1.391	ug/l #	47
68) m/p-Xylenes	10.24	106	150	2.974	ug/l #	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

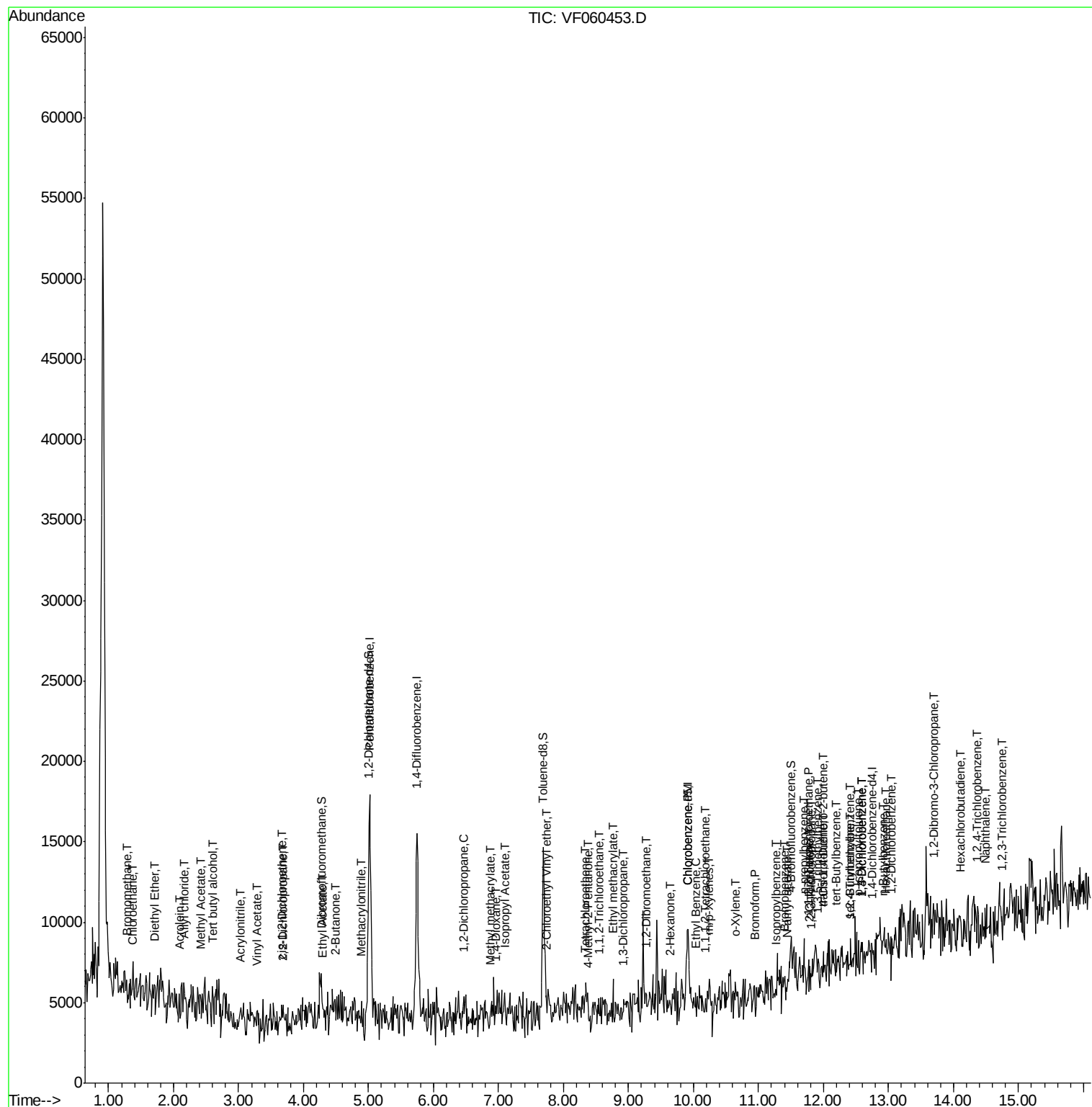
69) o-Xylene	10.65	106	67	1.219	ug/l #	1
71) Bromoform	10.94	173	103	5.743	ug/l #	32
73) Isopropylbenzene	11.27	105	59	8.713	ug/l #	51
74) N-amyl acetate	11.43	43	773	497.401	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	11.77	83	227	183.875	ug/l #	22
76) 1,2,3-Trichloropropane	11.81	75	104	114.430	ug/l #	60
77) Bromobenzene	11.40	156	65	42.943	ug/l #	41
78) n-propylbenzene	11.69	91	251	30.576	ug/l #	55
79) 2-Chlorotoluene	11.80	91	305	63.516	ug/l #	46
80) 1,3,5-Trimethylbenzene	11.91	105	72	12.515	ug/l #	6
81) trans-1,4-Dichloro-2-buten	12.01	75	71	176.232	ug/l #	15
82) 4-Chlorotoluene	12.00	91	288	58.618	ug/l #	43
83) tert-Butylbenzene	12.20	119	142	25.025	ug/l #	25
84) 1,2,4-Trimethylbenzene	12.39	105	137	24.012	ug/l #	87
85) sec-Butylbenzene	12.39	105	137	17.491	ug/l #	58
86) p-Isopropyltoluene	12.55	119	214	33.443	ug/l #	53
87) 1,3-Dichlorobenzene	12.60	146	59	20.714	ug/l #	1
88) 1,4-Dichlorobenzene	12.60	146	59	21.007	ug/l #	1
89) n-Butylbenzene	12.90	91	855	126.271	ug/l #	28
90) Hexachloroethane	12.95	117	82	49.581	ug/l #	27
91) 1,2-Dichlorobenzene	13.06	146	87	31.879	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.69	75	70	292.485	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.38	180	62	30.395	ug/l #	10
94) Hexachlorobutadiene	14.10	225	75	52.681	ug/l #	17
95) Naphthalene	14.49	128	62	17.000	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.75	180	76	39.746	ug/l #	13

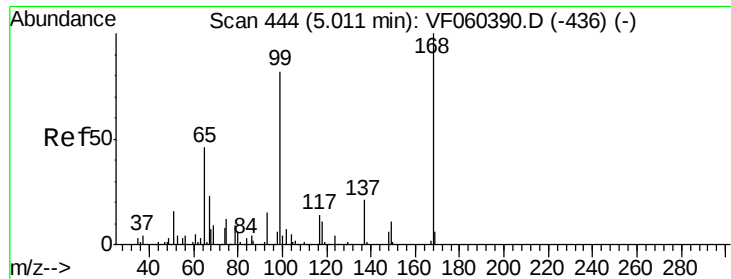
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

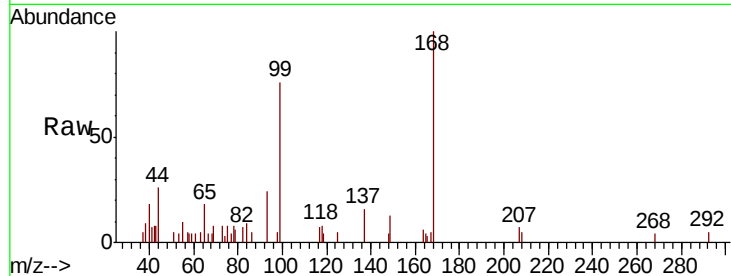
ClientSampleId :

Tot Ion:168 Resp: 10663

Ion Ratio Lower Upper

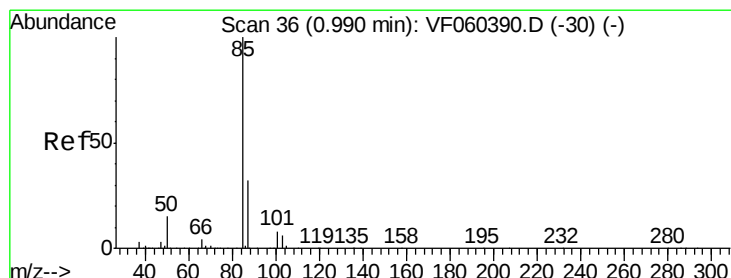
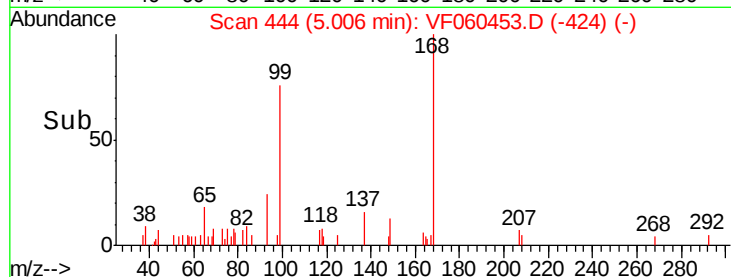
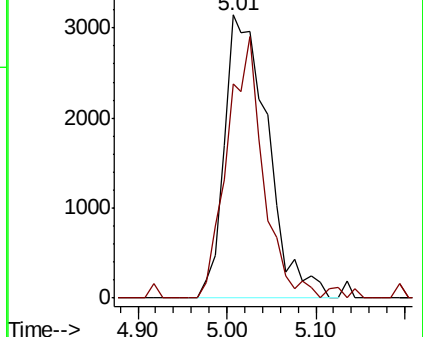
168 100

99 75.7 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 35

Delta R.T. -0.01 min

Lab File: VF060453.D

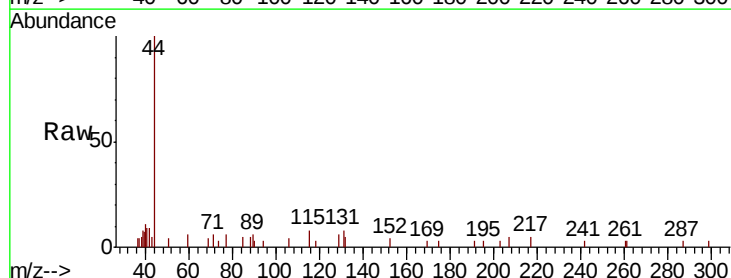
Acq: 4 Oct 2018 23:12

Tgt Ion: 85 Resp: 173

Ion Ratio Lower Upper

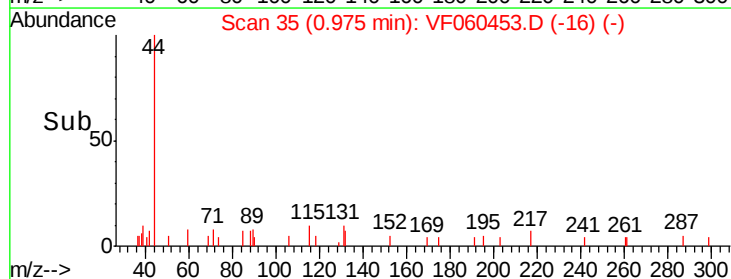
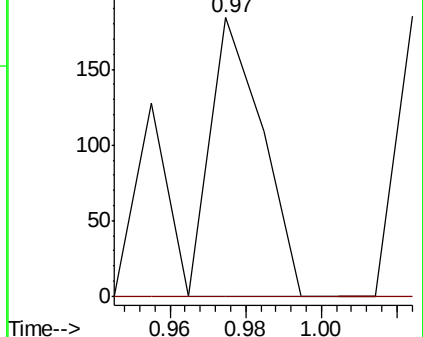
85 100

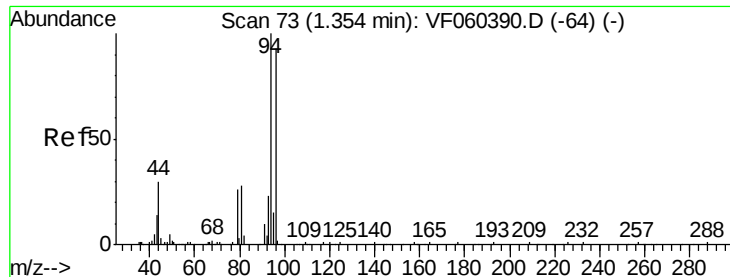
87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#5

Bromomethane

Concen: 1.560 ug/l

RT: 1.27 min Scan# 65

Delta R.T. -0.08 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

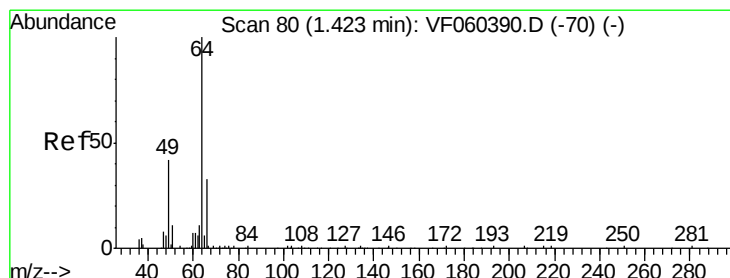
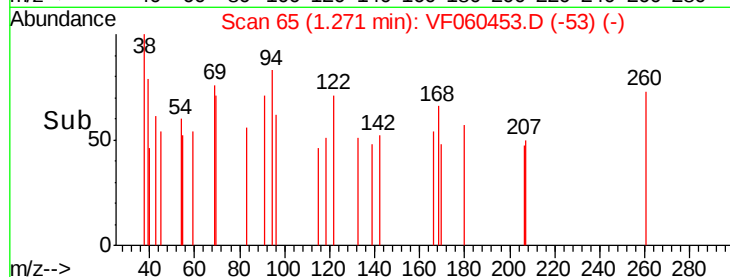
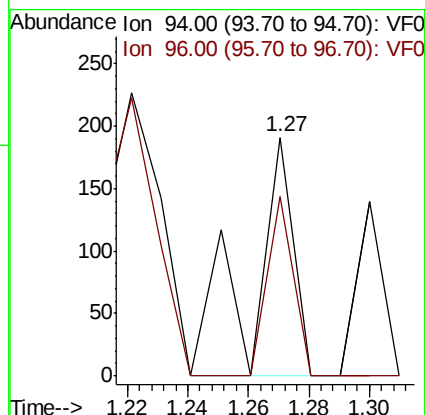
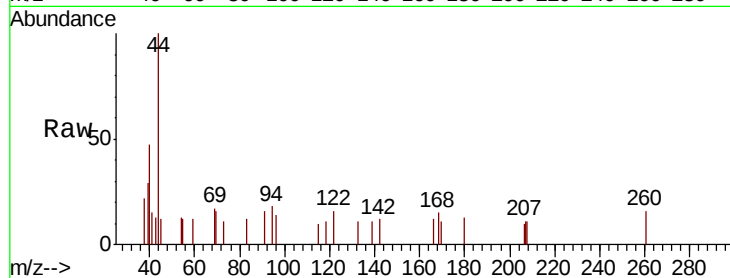
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 182

Ion Ratio Lower Upper

94 100

96 75.4 74.3 111.5



#6

Chloroethane

Concen: 3.871 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.06 min

Lab File: VF060453.D

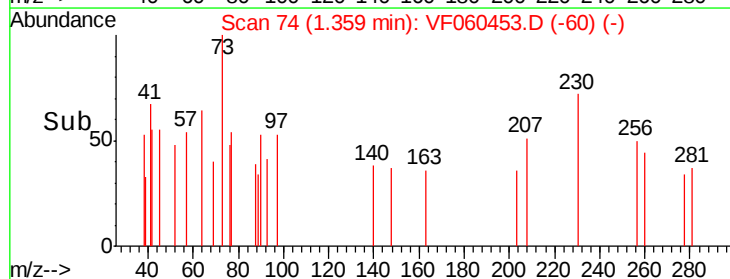
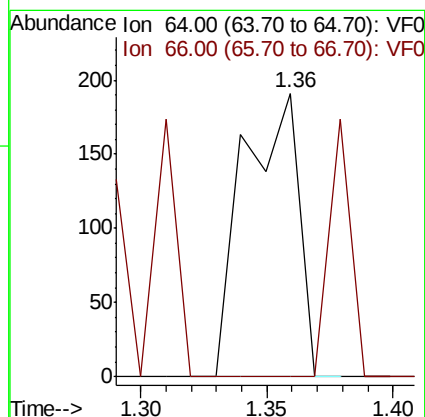
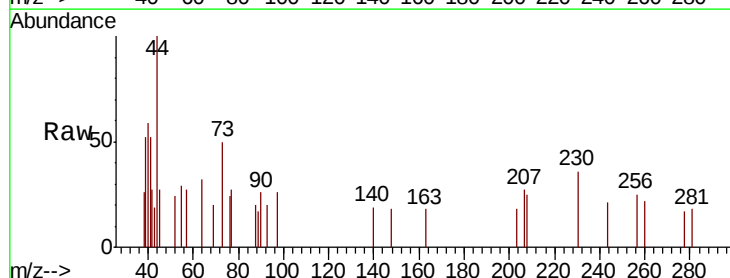
Acq: 4 Oct 2018 23:12

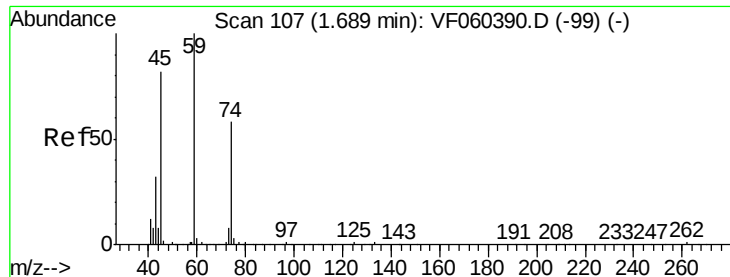
Tgt Ion: 64 Resp: 291

Ion Ratio Lower Upper

64 100

66 0.0 26.3 39.5#

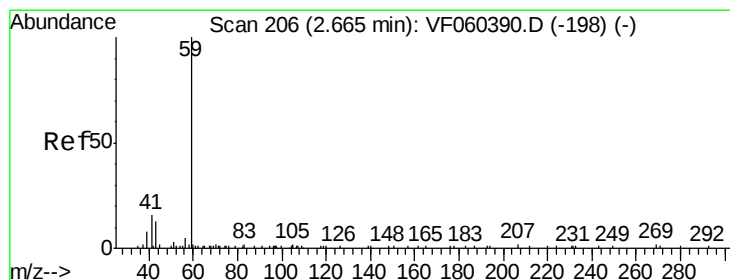
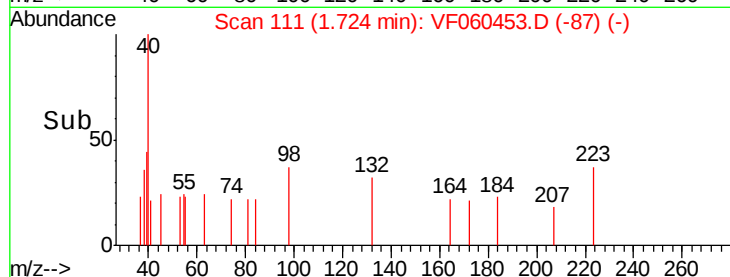
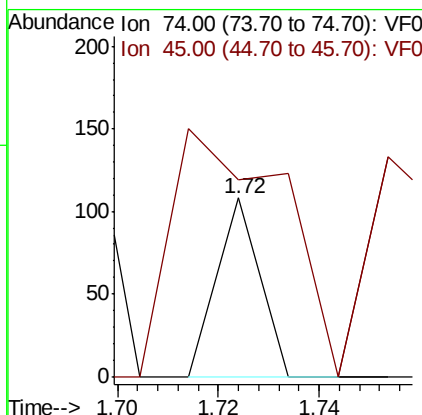
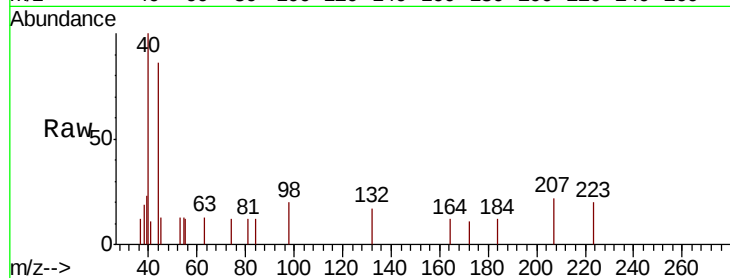




#8
Diethyl Ether
Concen: 1.336 ug/l
RT: 1.72 min Scan# 111
Delta R.T. 0.03 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

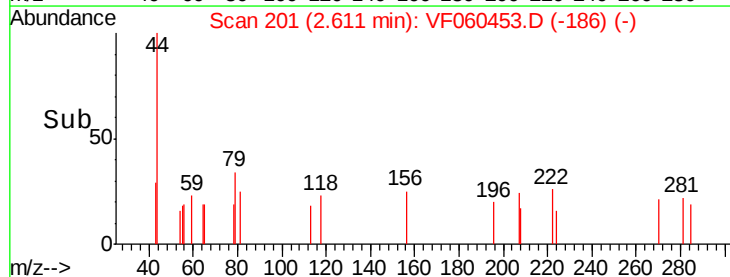
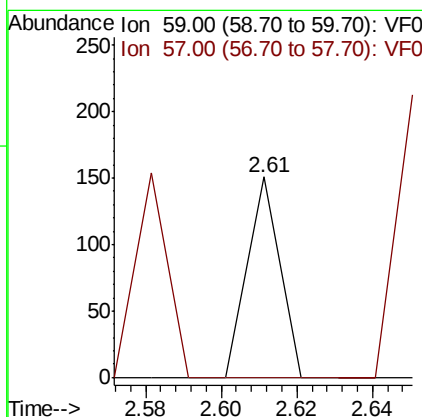
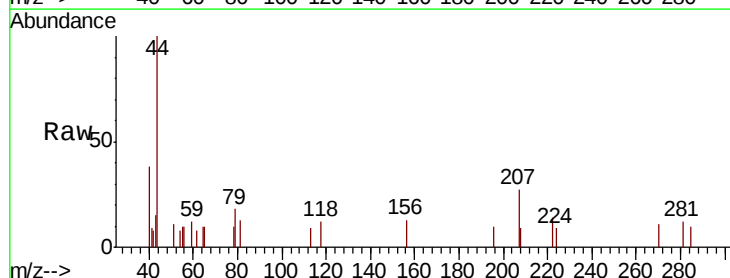
Instrument :
MSVOA_F
ClientSampleId :

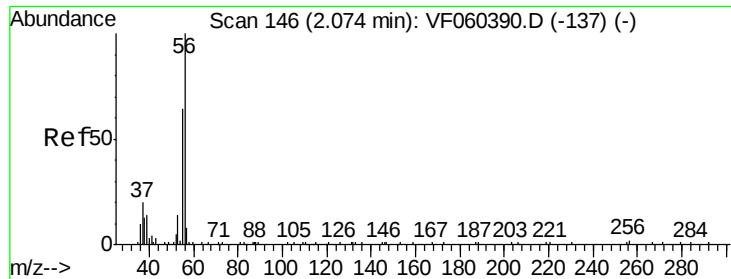
Tot Ion: 74 Resp: 64
Ion Ratio Lower Upper
74 100
45 110.2 71.3 213.8



#11
Tert butyl alcohol
Concen: 8.819 ug/l
RT: 2.61 min Scan# 201
Delta R.T. -0.05 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion: 59 Resp: 89
Ion Ratio Lower Upper
59 100
57 0.0 6.5 9.7#

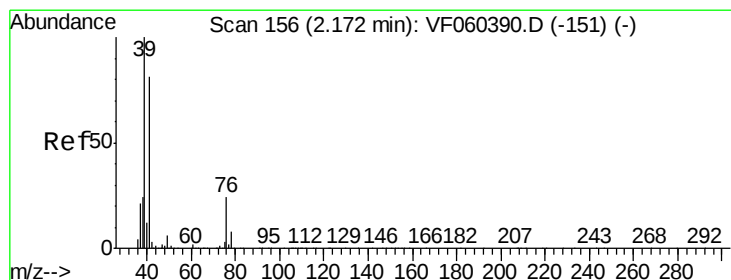
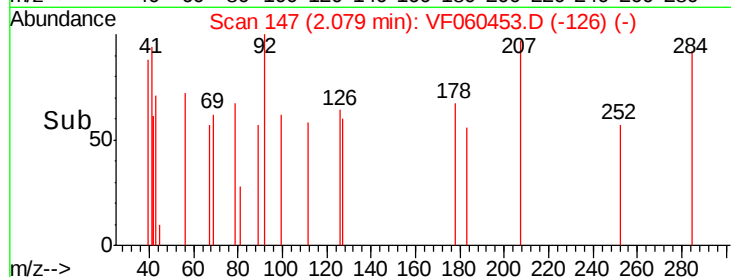
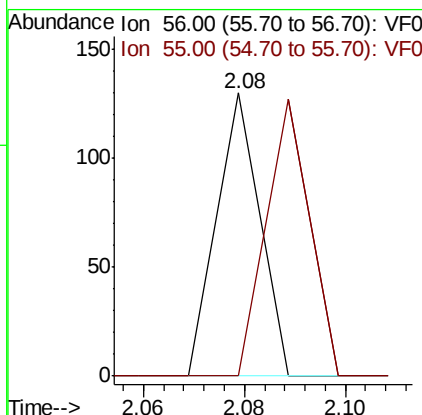
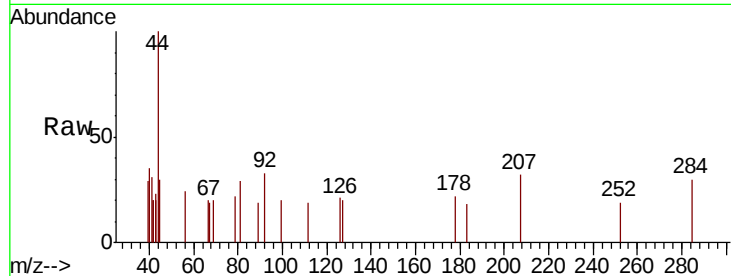




#13
Acrolein
Concen: 9.487 ug/l
RT: 2.08 min Scan# 147
Delta R.T. 0.00 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

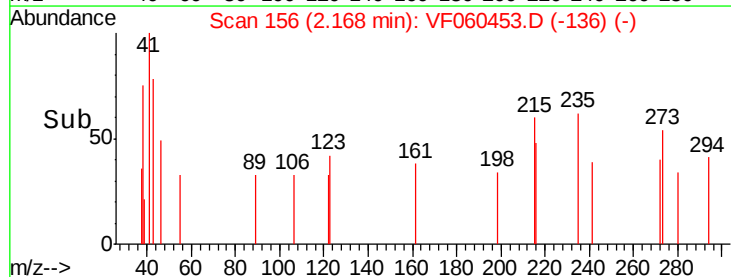
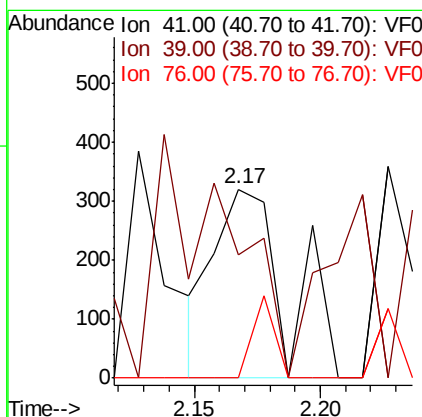
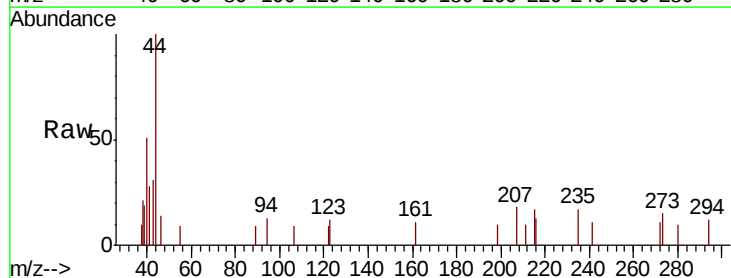
Instrument :
MSVOA_F
ClientSampled :

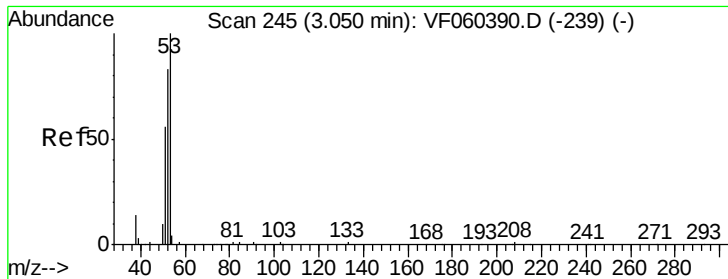
Tot Ion: 56 Resp: 77
Ion Ratio Lower Upper
56 100
55 0.0 53.9 80.9#



#14
Allyl chloride
Concen: 3.107 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.00 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion: 41 Resp: 644
Ion Ratio Lower Upper
41 100
39 65.6 98.3 147.5#
76 0.0 23.9 35.9#





#15

Acrylonitrile

Concen: 24.865 ug/l

RT: 3.04 min Scan# 245

Delta R.T. -0.00 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

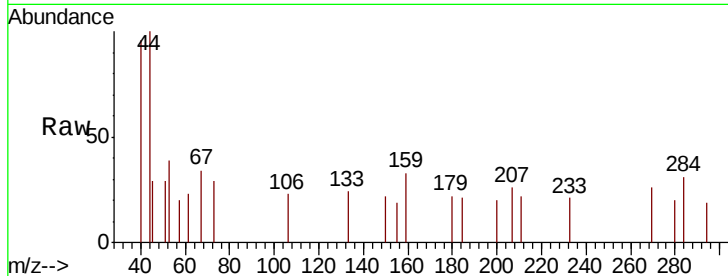
Tot Ion: 53 Resp: 430

Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

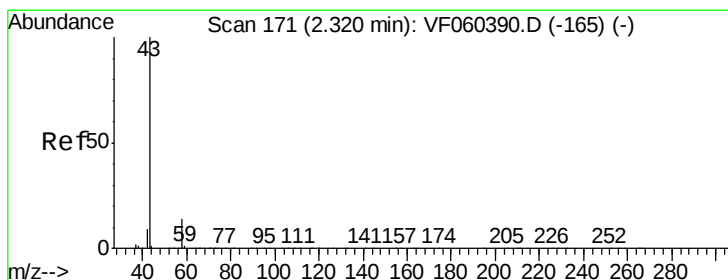
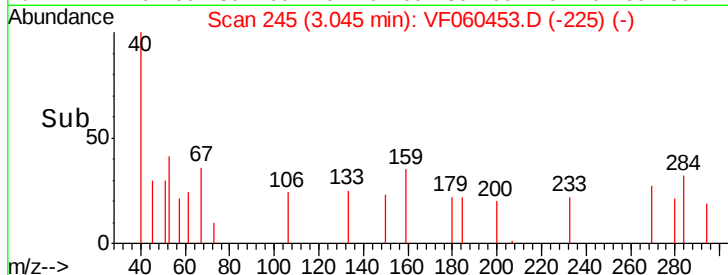
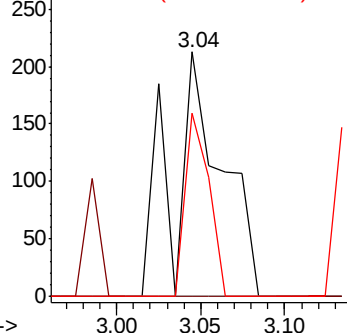
51 74.6 45.6 68.4#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: Below Cal

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF060453.D

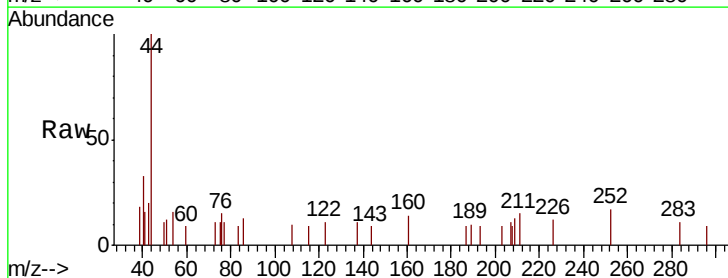
Acq: 4 Oct 2018 23:12

Tgt Ion: 43 Resp: 350

Ion Ratio Lower Upper

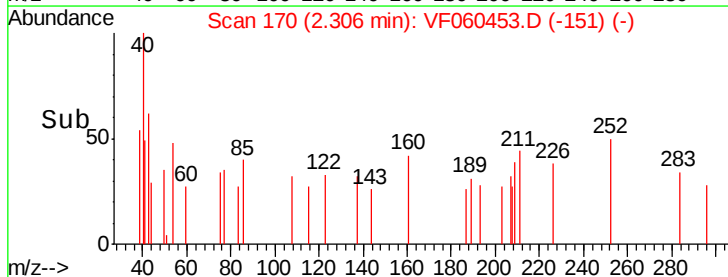
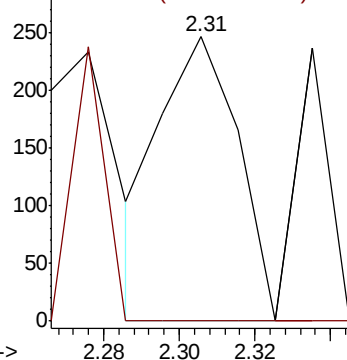
43 100

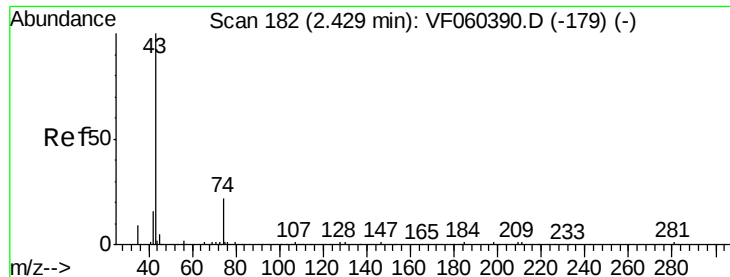
58 0.0 11.2 16.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

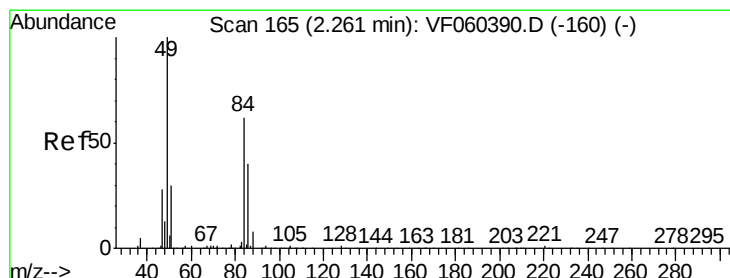
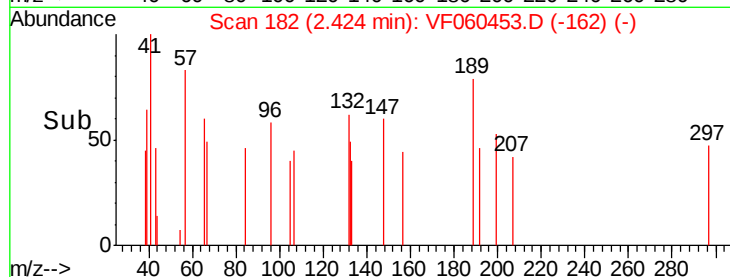
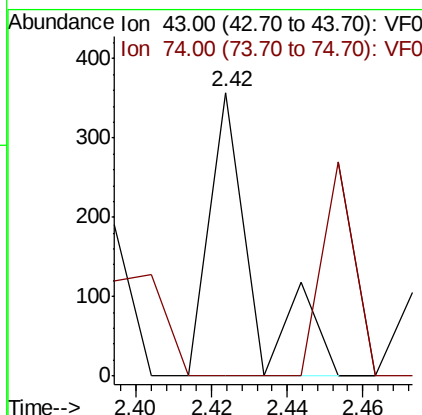
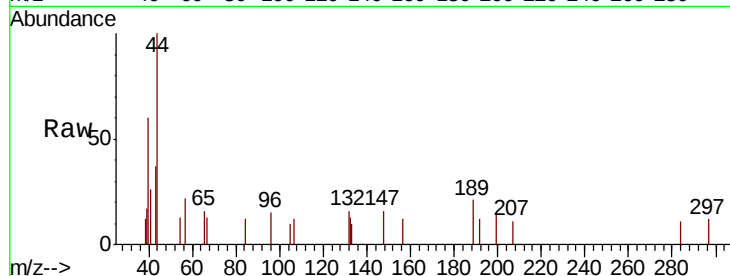




#18
Methyl Acetate
Concen: 2.803 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

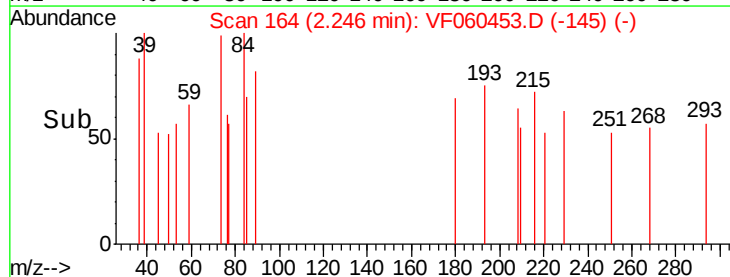
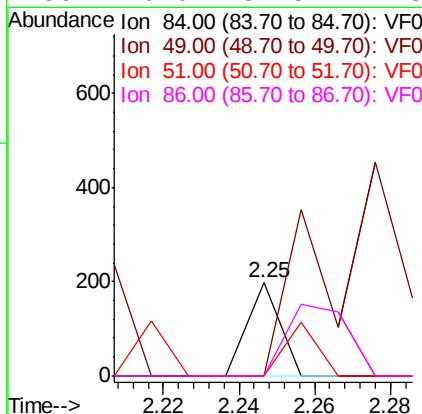
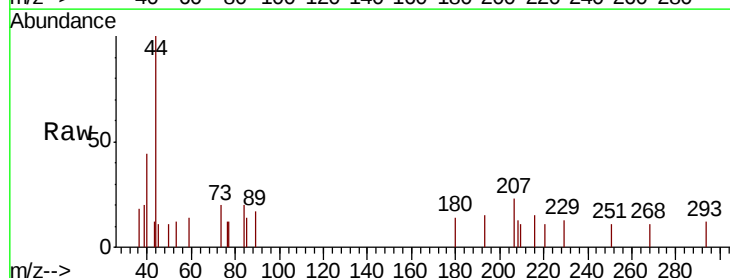
Instrument :
MSVOA_F
ClientSampled :

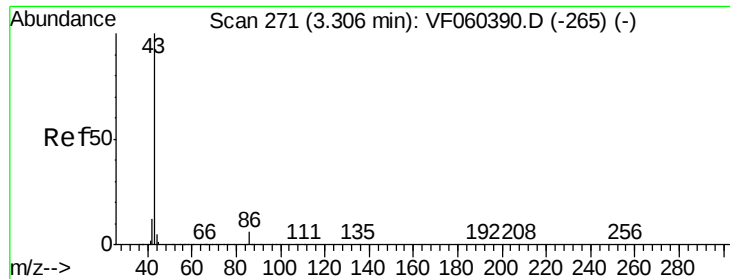
Tot Ion: 43 Resp: 281
Ion Ratio Lower Upper
43 100
74 0.0 15.8 23.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion: 84 Resp: 117
Ion Ratio Lower Upper
84 100
49 0.0 130.2 195.2#
51 0.0 41.0 61.6#
86 0.0 51.5 77.3#





#23

Vinyl Acetate

Concen: 2.971 ug/l

RT: 3.29 min Scan# 270

Delta R.T. -0.01 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

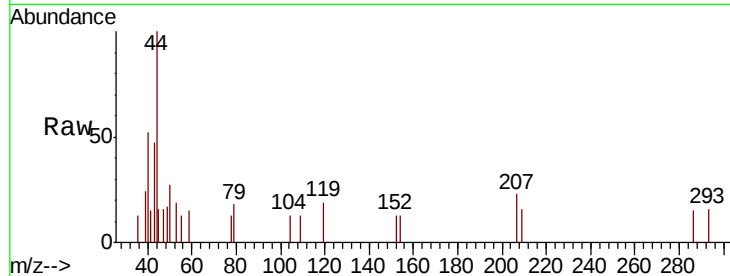
ClientSampleId :

Tot Ion: 43 Resp: 444

Ion Ratio Lower Upper

43 100

86 0.0 5.1 7.7#



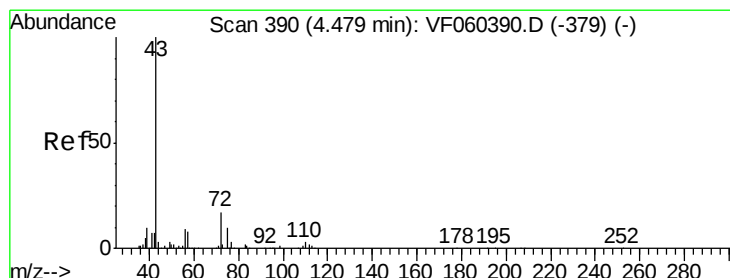
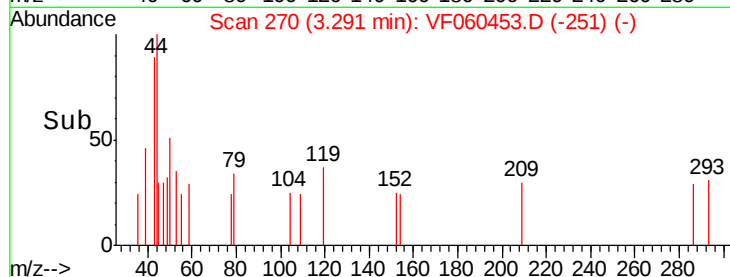
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.29

3.26 3.28 3.30 3.32

Time-->



#25

2-Butanone

Concen: 6.851 ug/l

RT: 4.49 min Scan# 392

Delta R.T. 0.01 min

Lab File: VF060453.D

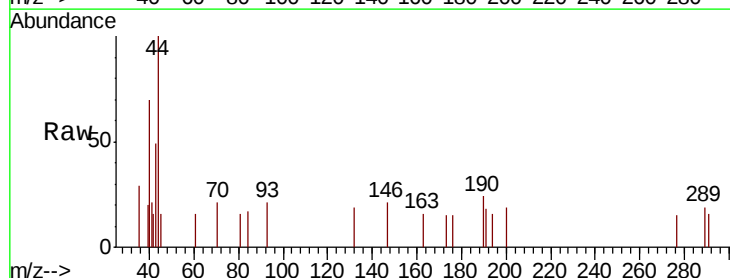
Acq: 4 Oct 2018 23:12

Tgt Ion: 43 Resp: 296

Ion Ratio Lower Upper

43 100

72 0.0 14.1 21.1#



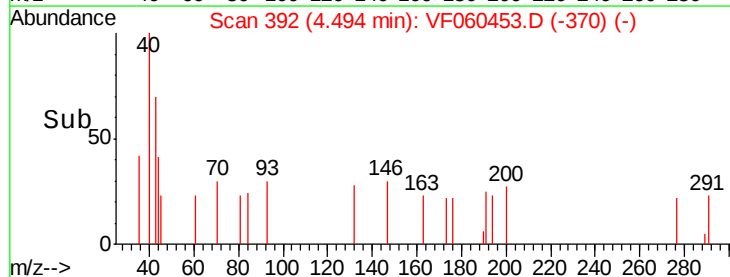
Abundance Ion 43.00 (42.70 to 43.70): VF0

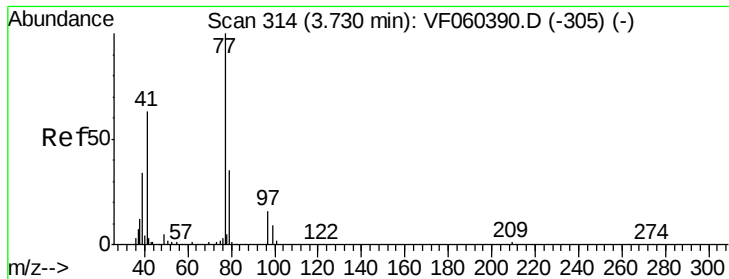
Ion 72.00 (71.70 to 72.70): VF0

4.49

4.46 4.48 4.50

Time-->





#26

2,2-Dichloropropane

Concen: 1.360 ug/l

RT: 3.70 min Scan# 311

Delta R.T. -0.03 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

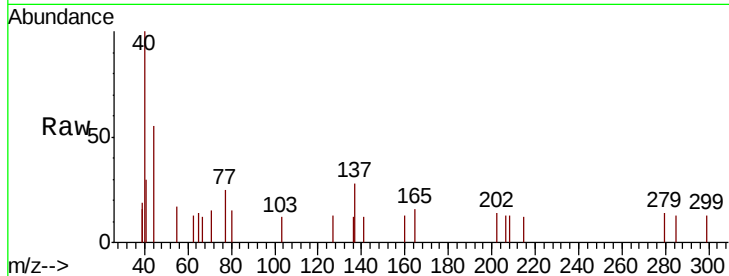
ClientSampleId :

Tot Ion: 77 Resp: 196

Ion Ratio Lower Upper

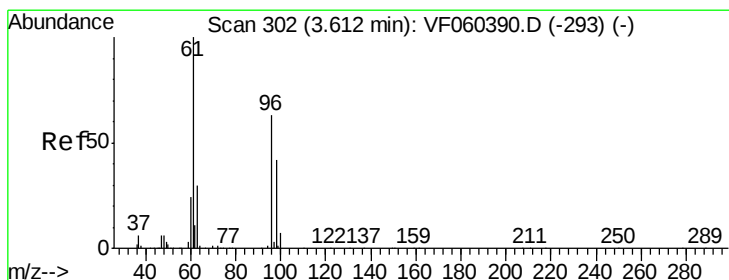
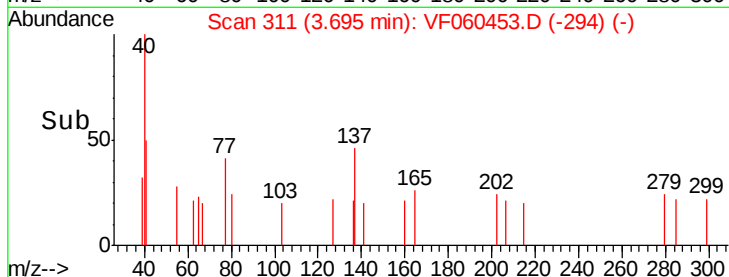
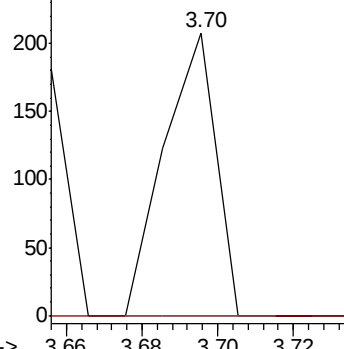
77 100

97 0.0 8.3 25.1#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 1.309 ug/l

RT: 3.68 min Scan# 309

Delta R.T. 0.06 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

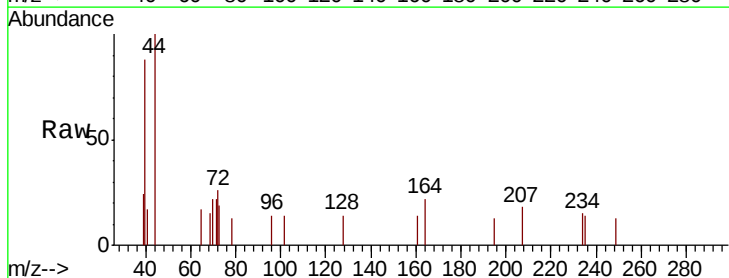
Tgt Ion: 96 Resp: 189

Ion Ratio Lower Upper

96 100

61 0.0 0.0 318.2

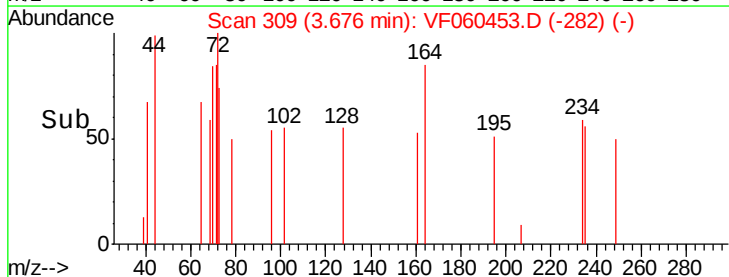
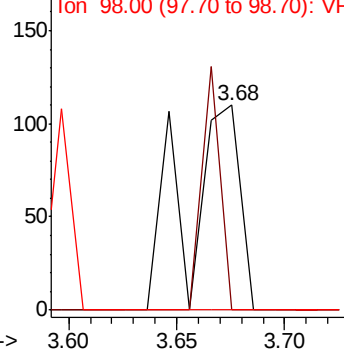
98 0.0 0.0 134.0

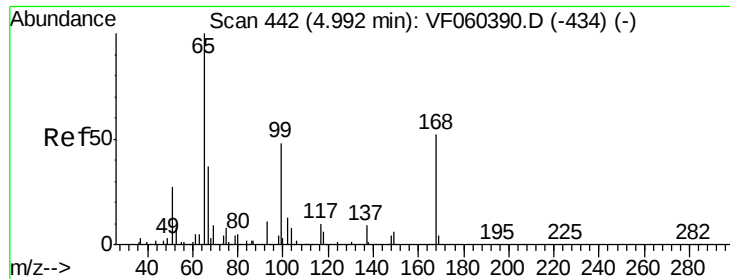


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

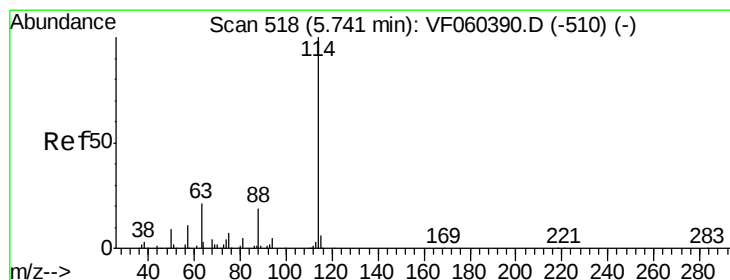
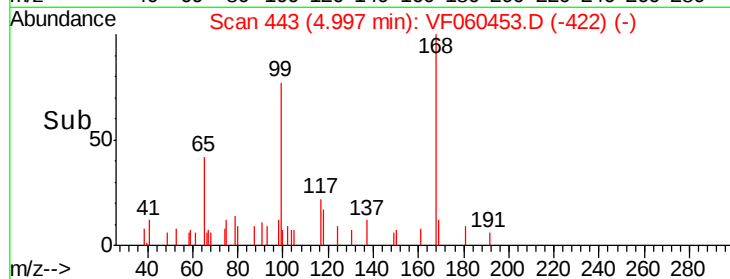
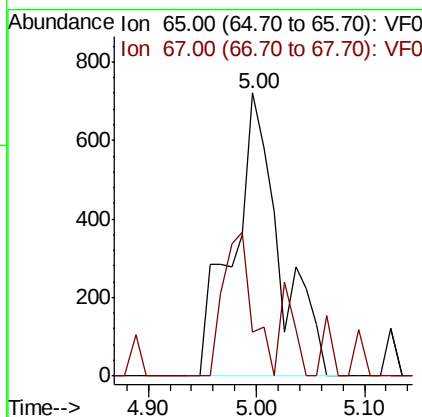
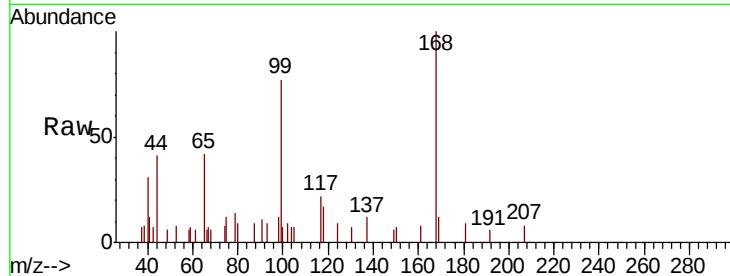




#33
 1,2-Dichloroethane-d4
 Concen: 13.018 ug/l
 RT: 5.00 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VF060453.D
 Acq: 4 Oct 2018 23:12

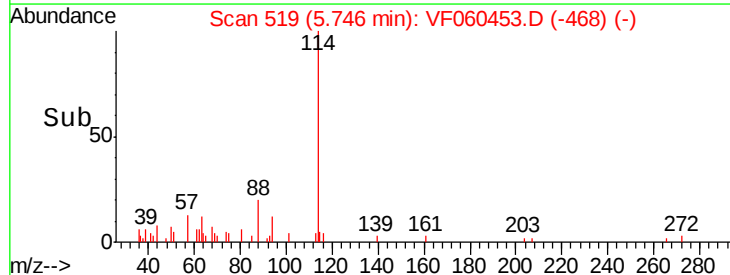
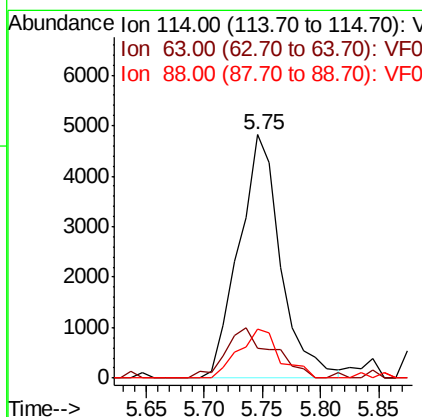
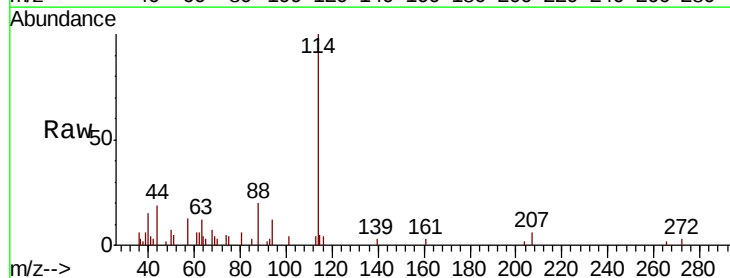
Instrument :
 MSVOA_F
 ClientSampleId :

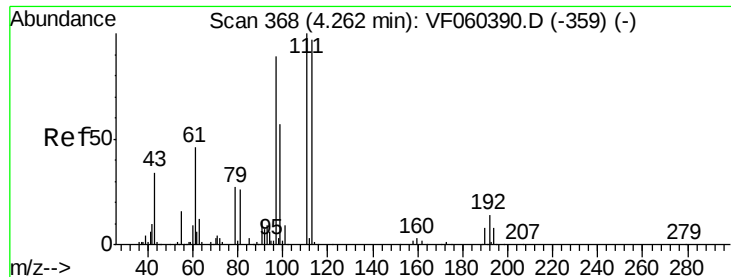
Tot Ion: 65 Resp: 2172
 Ion Ratio Lower Upper
 65 100
 67 15.7 0.0 89.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 519
 Delta R.T. 0.00 min
 Lab File: VF060453.D
 Acq: 4 Oct 2018 23:12

Tgt Ion: 114 Resp: 11952
 Ion Ratio Lower Upper
 114 100
 63 12.3 0.0 42.2
 88 20.0 0.0 38.8





#35

Dibromofluoromethane

Concen: 21.695 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.01 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

ClientSampled :

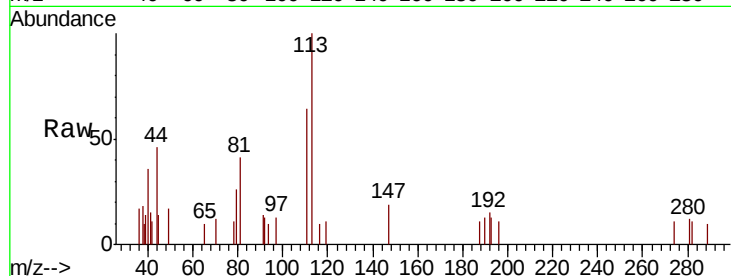
Tot Ion:113 Resp: 2436

Ion Ratio Lower Upper

113 100

111 64.1 82.3 123.5#

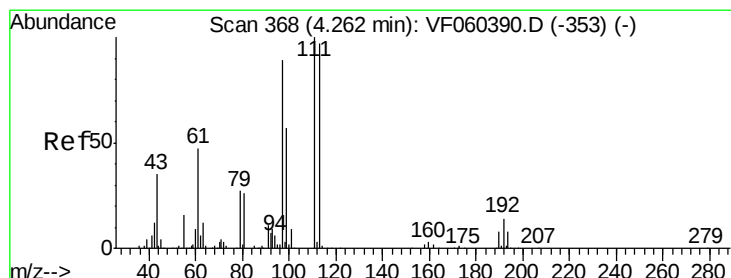
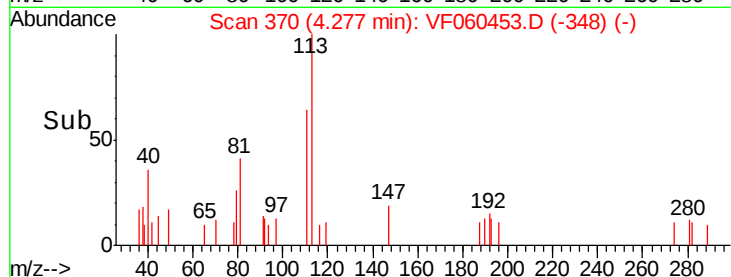
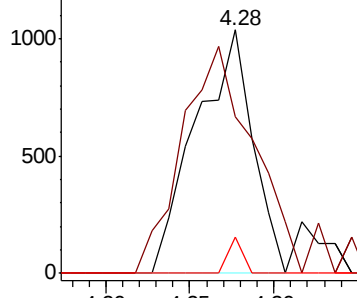
192 15.0 11.8 17.6



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



#37

Ethyl Acetate

Concen: 1.347 ug/l

RT: 4.30 min Scan# 372

Delta R.T. 0.03 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

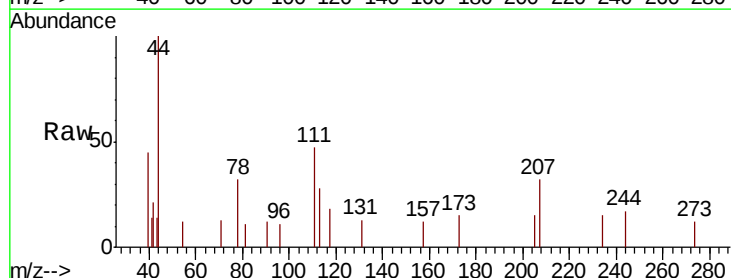
Tgt Ion: 43 Resp: 76

Ion Ratio Lower Upper

43 100

61 0.0 105.1 157.7#

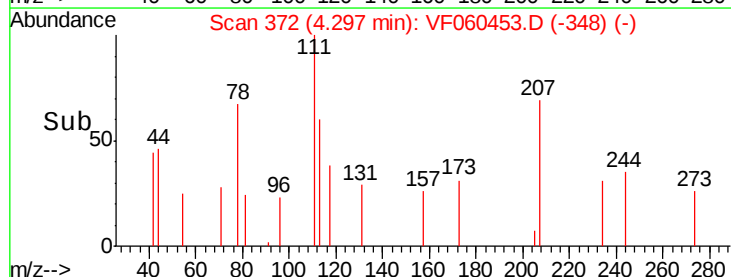
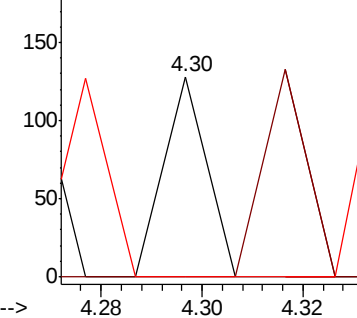
70 0.0 8.0 12.0#

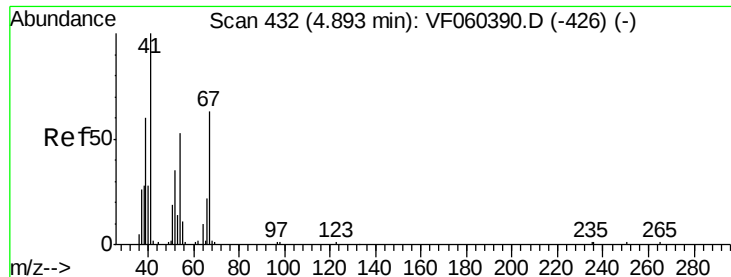


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

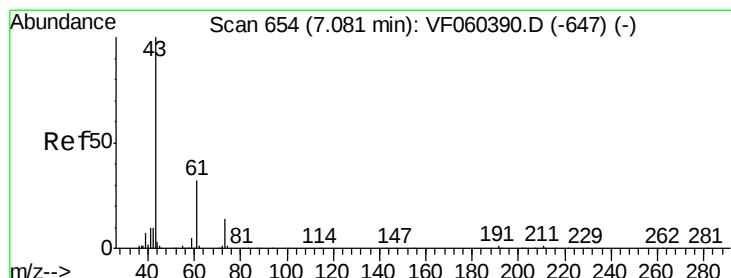
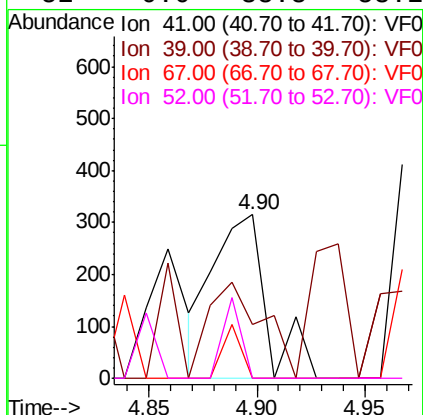
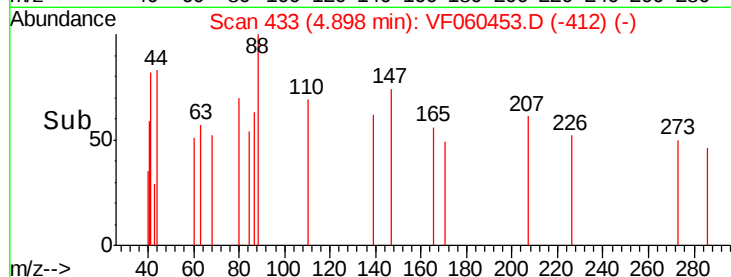
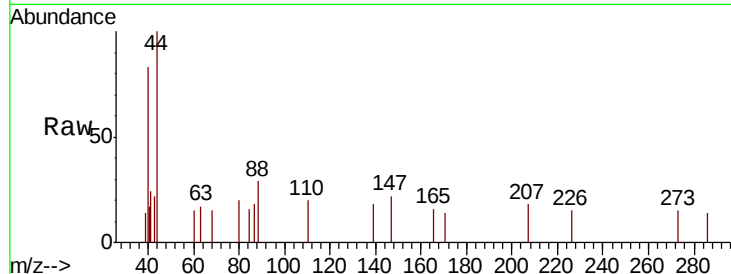




#41
Methacrylonitrile
Concen: 18.282 ug/l
RT: 4.90 min Scan# 433
Delta R.T. 0.00 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

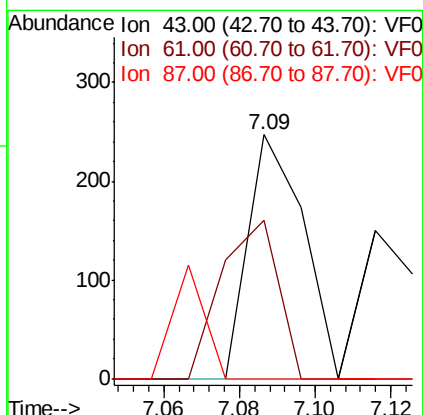
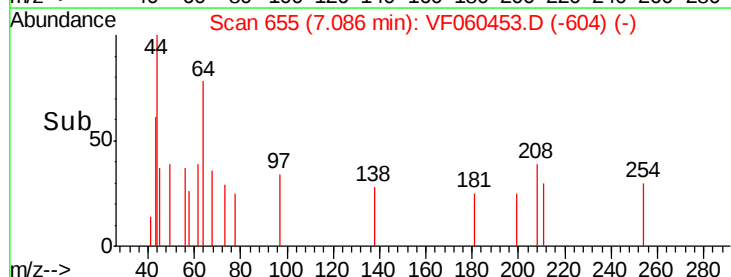
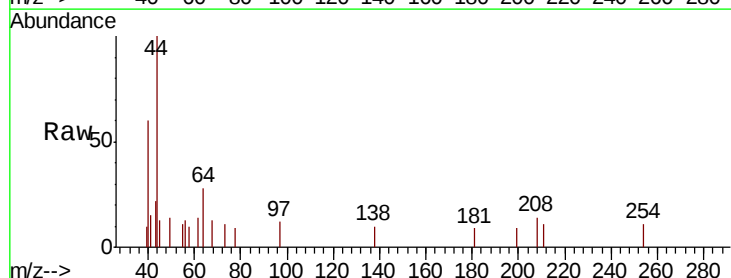
Instrument :
MSVOA_F
ClientSampled :

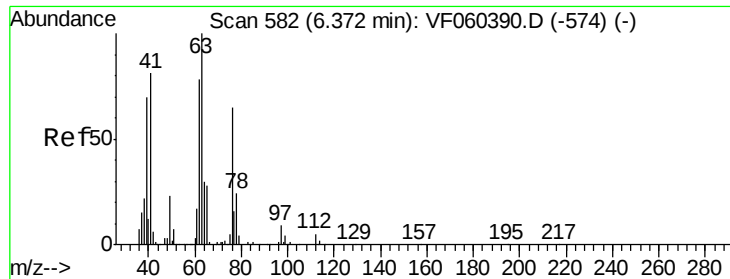
Tot Ion: 41 Resp: 547
Ion Ratio Lower Upper
41 100
39 33.0 55.0 82.4#
67 0.0 49.6 74.4#
52 0.0 38.8 58.2#



#43
Isopropyl Acetate
Concen: 3.637 ug/l
RT: 7.09 min Scan# 655
Delta R.T. 0.00 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion: 43 Resp: 248
Ion Ratio Lower Upper
43 100
61 64.8 25.4 38.2#
87 0.0 0.3 0.5#





#45

1,2-Dichloropropane

Concen: 2.028 ug/l

RT: 6.48 min Scan# 593

Delta R.T. 0.10 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

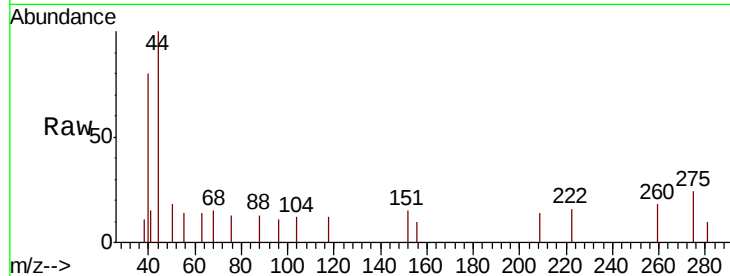
ClientSampleId :

Tot Ion: 63 Resp: 158

Ion Ratio Lower Upper

63 100

65 0.0 22.7 34.1#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

150

100

50

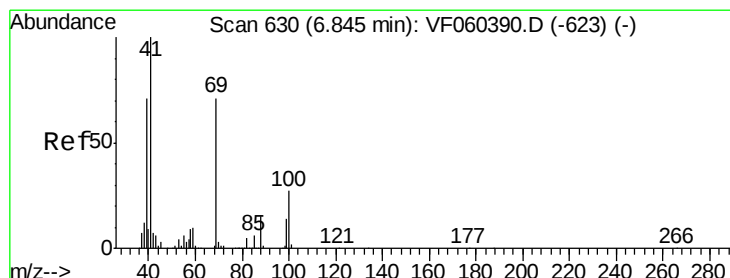
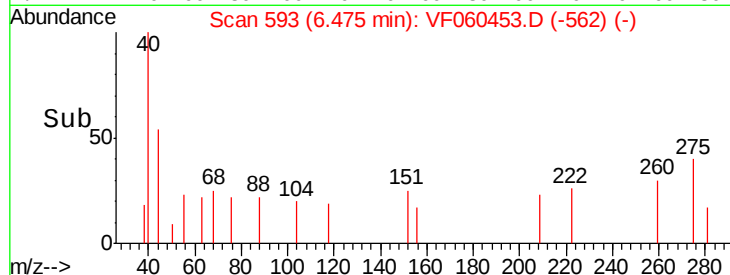
0

6.45

6.48

6.50

Time-->



#48

Methyl methacrylate

Concen: 13.360 ug/l

RT: 6.87 min Scan# 633

Delta R.T. 0.02 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

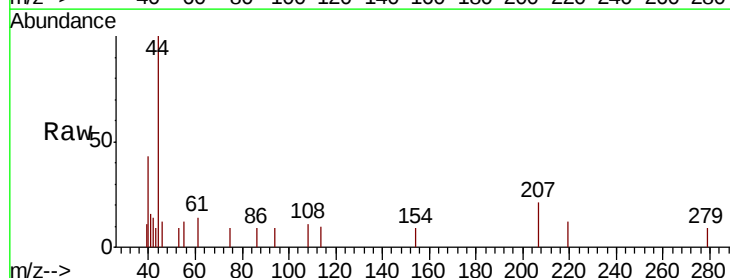
Tgt Ion: 41 Resp: 654

Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

39 68.0 56.9 85.3



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

400

300

200

100

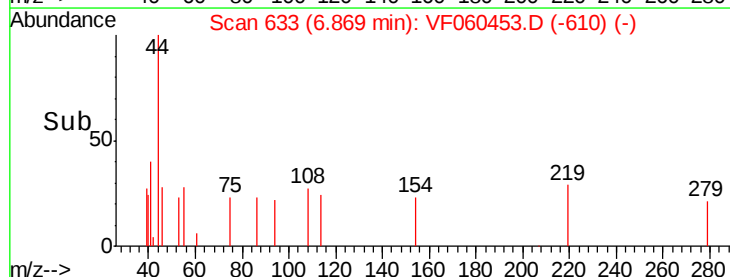
0

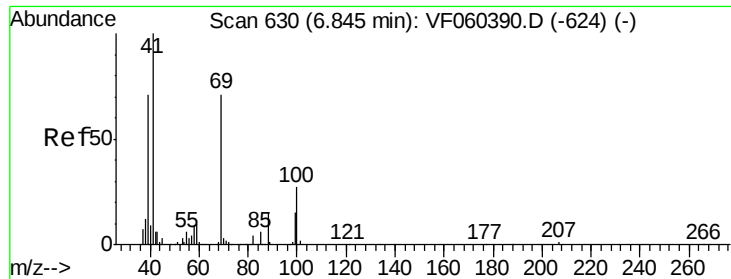
6.80

6.87

6.90

Time-->





#49

1,4-Dioxane

Concen: 139.786 ug/l

RT: 6.95 min Scan# 641

Delta R.T. 0.10 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :
MSVOA_F
ClientSampleId :

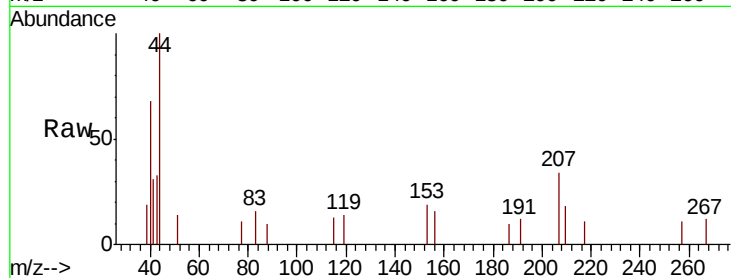
Tot Ion: 88 Resp: 59

Ion Ratio Lower Upper

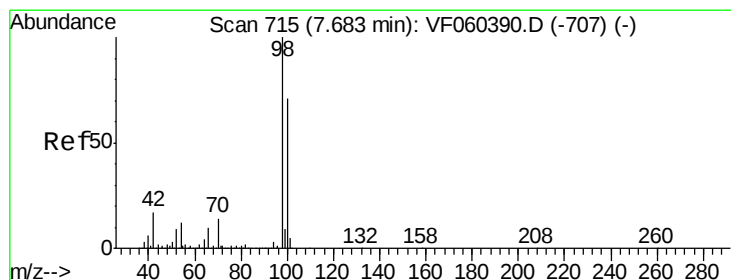
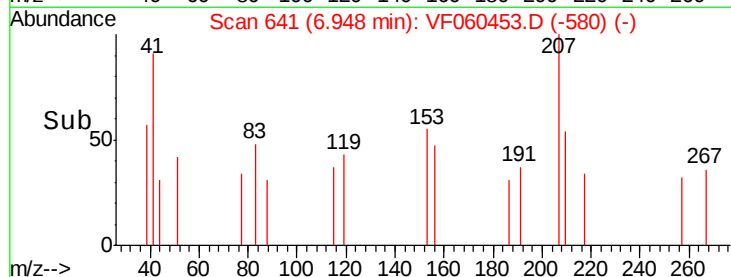
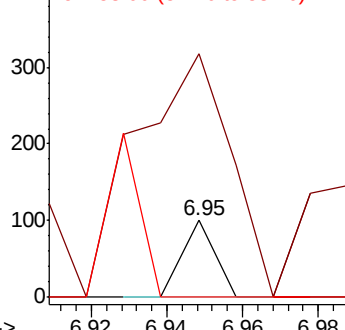
88 100

43 318.0 38.3 57.5#

58 0.0 47.4 71.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 27.661 ug/l

RT: 7.69 min Scan# 716

Delta R.T. 0.00 min

Lab File: VF060453.D

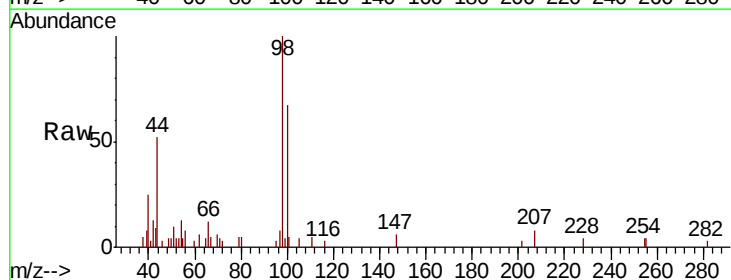
Acq: 4 Oct 2018 23:12

Tgt Ion: 98 Resp: 7649

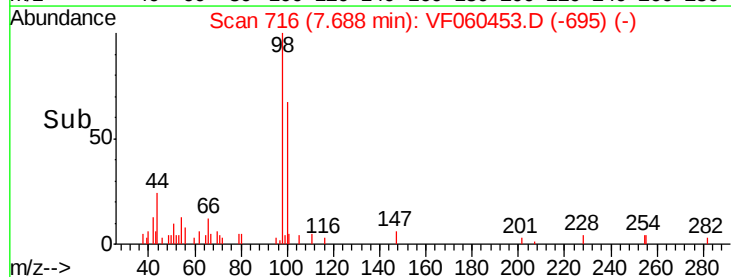
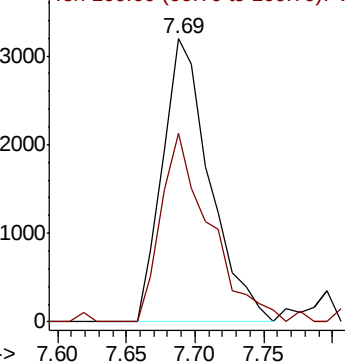
Ion Ratio Lower Upper

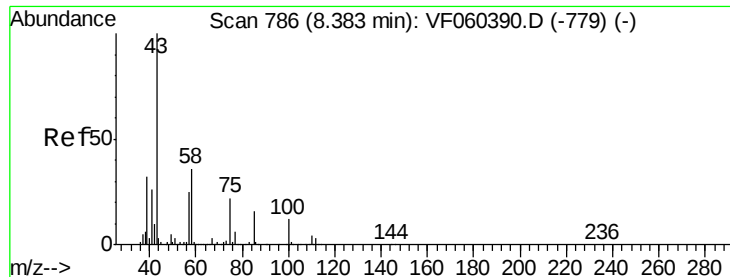
98 100

100 66.6 56.5 84.7



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 12.154 ug/l

RT: 8.39 min Scan# 787

Delta R.T. 0.00 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

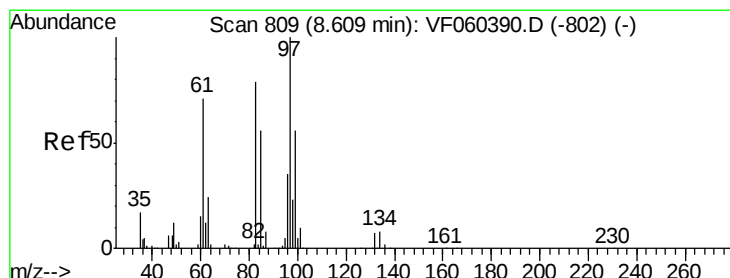
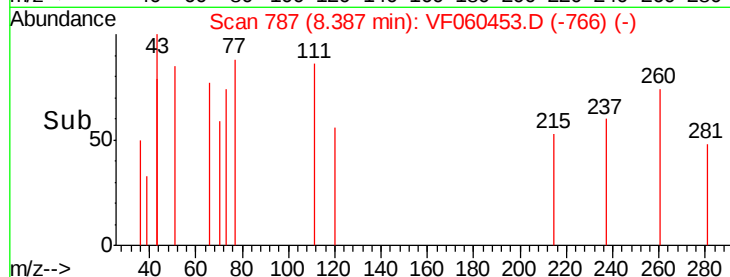
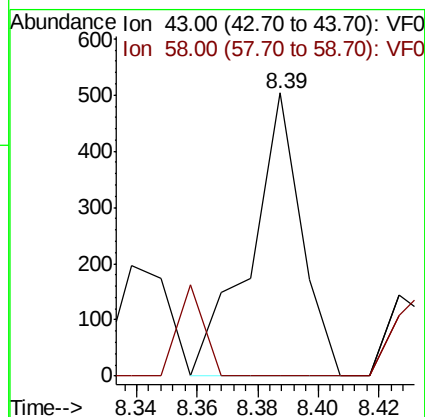
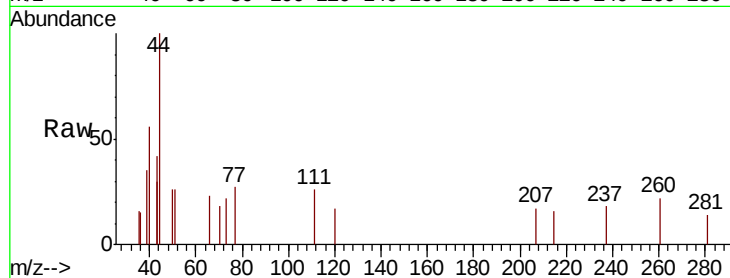
ClientSampled :

Tot Ion: 43 Resp: 590

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



#55

1,1,2-Trichloroethane

Concen: 1.461 ug/l

RT: 8.56 min Scan# 804

Delta R.T. -0.05 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Tgt Ion: 97 Resp: 92

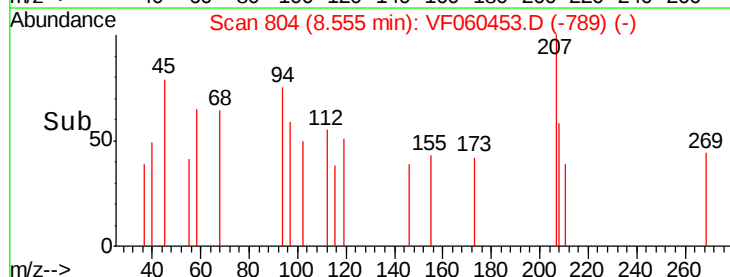
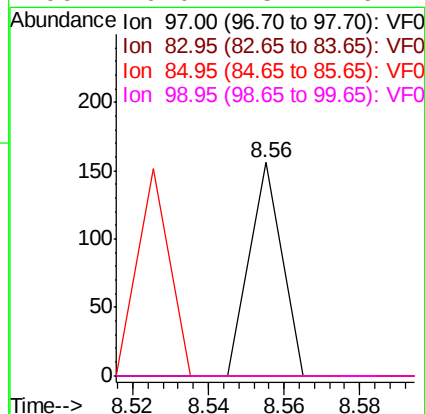
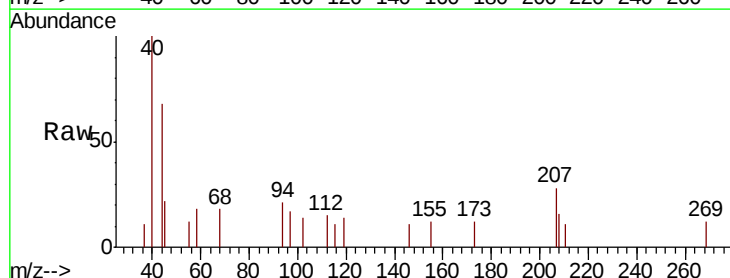
Ion Ratio Lower Upper

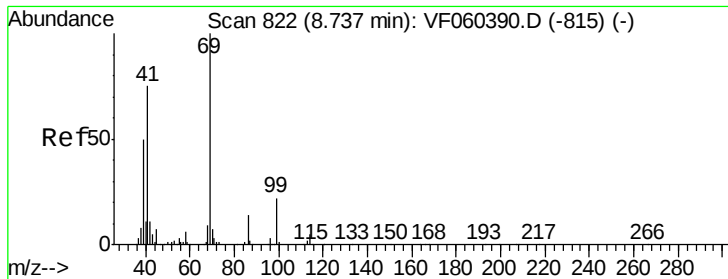
97 100

83 0.0 63.4 95.0#

85 0.0 44.5 66.7#

99 0.0 45.1 67.7#





#56

Ethyl methacrylate

Concen: 1.174 ug/l

RT: 8.76 min Scan# 825

Delta R.T. 0.02 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :
MSVOA_F
ClientSampled :

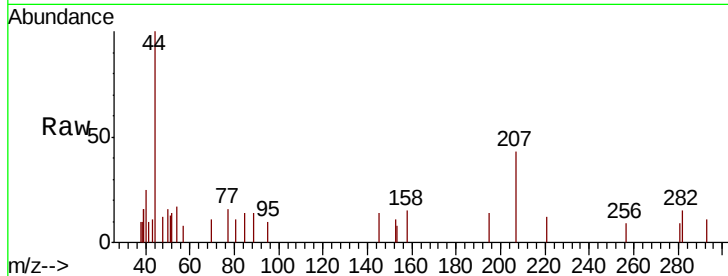
Tot Ion: 69 Resp: 84

Ion Ratio Lower Upper

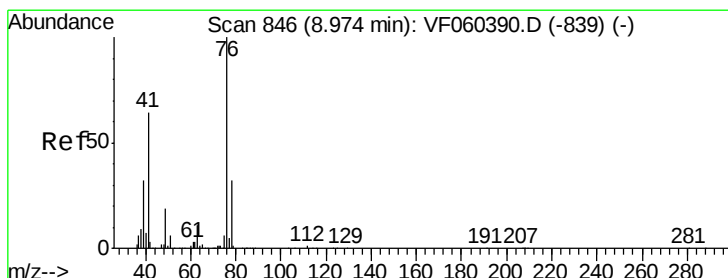
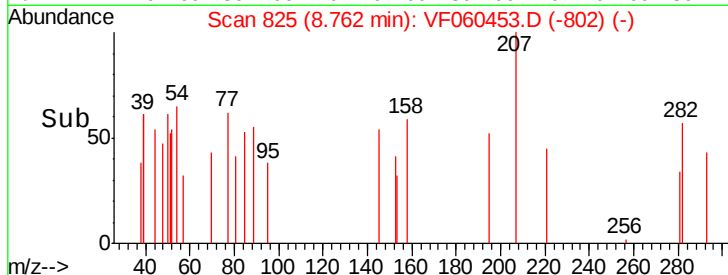
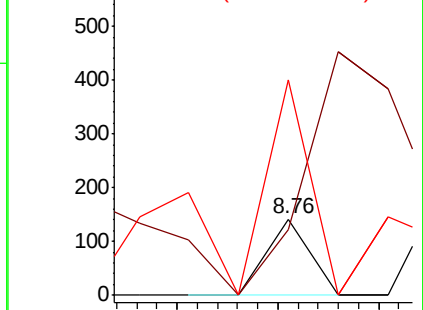
69 100

41 85.2 60.2 90.4

39 281.7 40.2 60.2#



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



#57

1,3-Dichloropropane

Concen: 1.258 ug/l

RT: 8.91 min Scan# 840

Delta R.T. -0.06 min

Lab File: VF060453.D

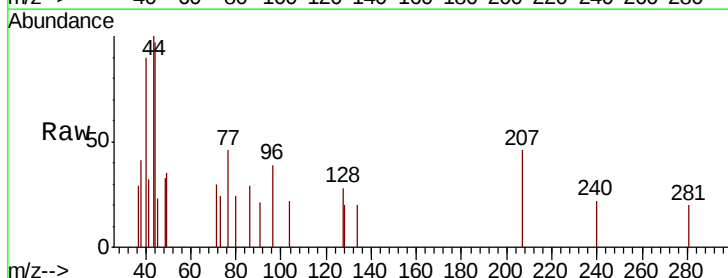
Acq: 4 Oct 2018 23:12

Tgt Ion: 76 Resp: 134

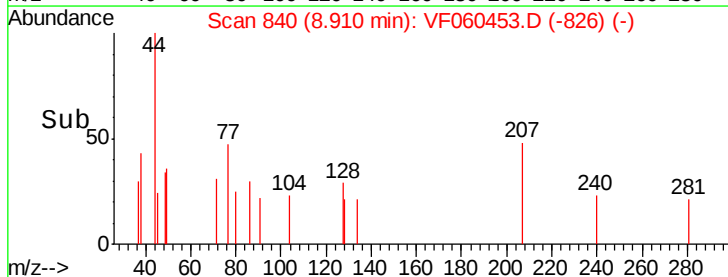
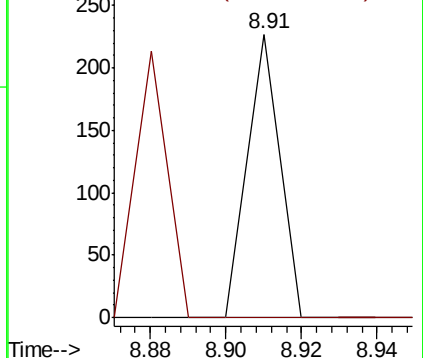
Ion Ratio Lower Upper

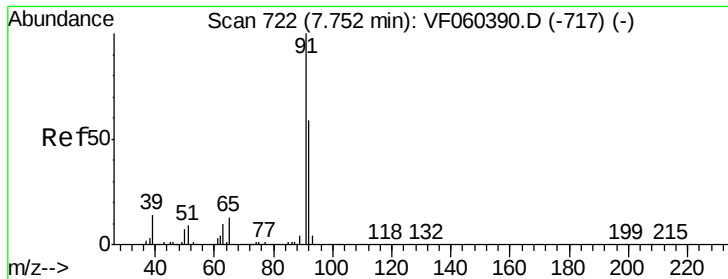
76 100

78 0.0 25.3 37.9#



Abundance Ion 76.00 (75.70 to 76.70): VF0
Ion 78.00 (77.70 to 78.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 10.807 ug/l

RT: 7.74 min Scan# 721

Delta R.T. -0.01 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

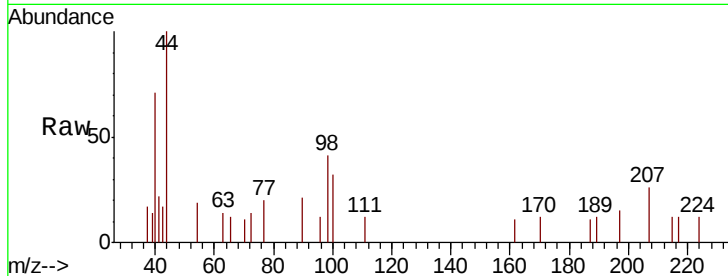
ClientSampleId :

Tot Ion: 63 Resp: 79

Ion Ratio Lower Upper

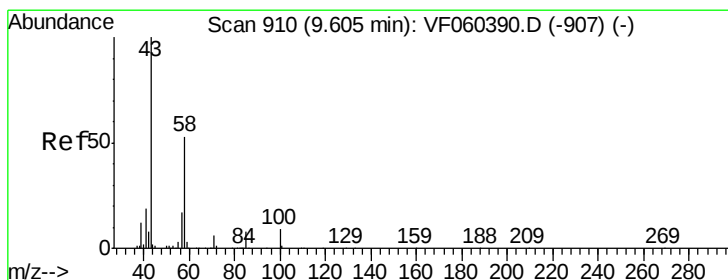
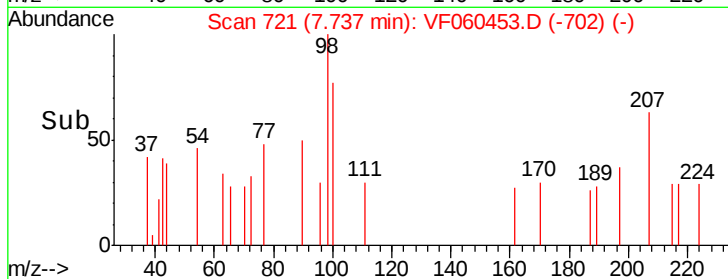
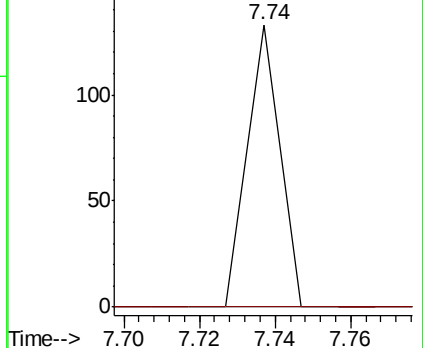
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 11.375 ug/l

RT: 9.63 min Scan# 913

Delta R.T. 0.02 min

Lab File: VF060453.D

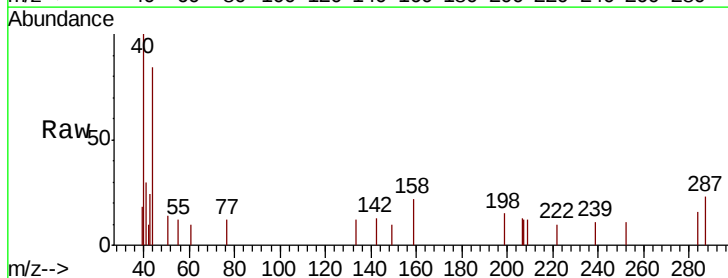
Acq: 4 Oct 2018 23:12

Tgt Ion: 43 Resp: 405

Ion Ratio Lower Upper

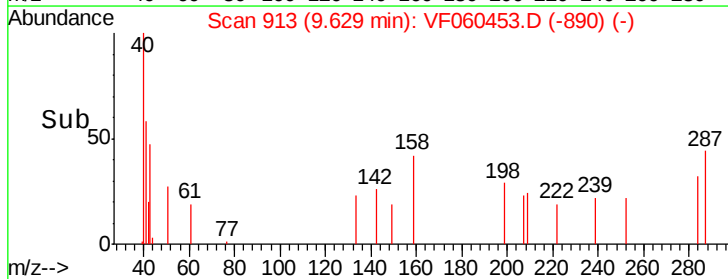
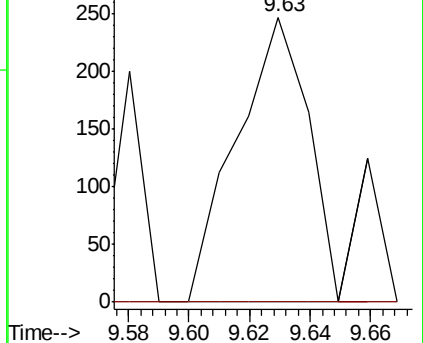
43 100

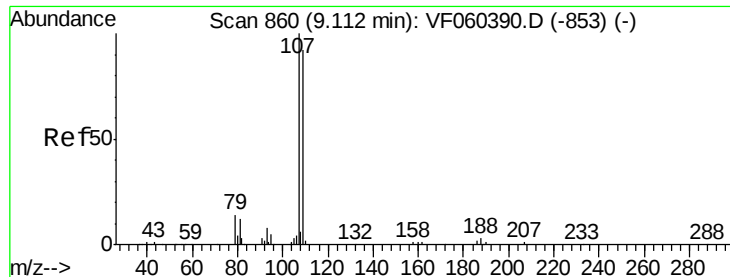
58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#61

1,2-Dibromoethane

Concen: 1.088 ug/l

RT: 9.25 min Scan# 875

Delta R.T. 0.14 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

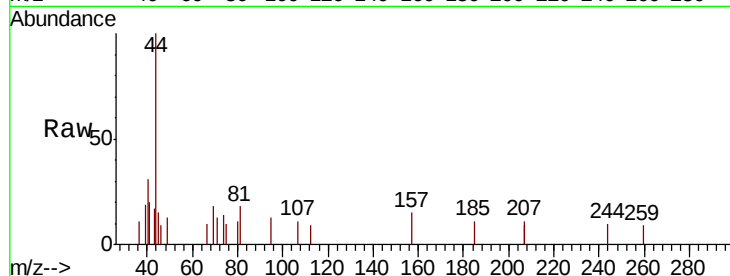
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:107 Resp: 75

Ion Ratio Lower Upper

107 100

109 0.0 73.7 110.5#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

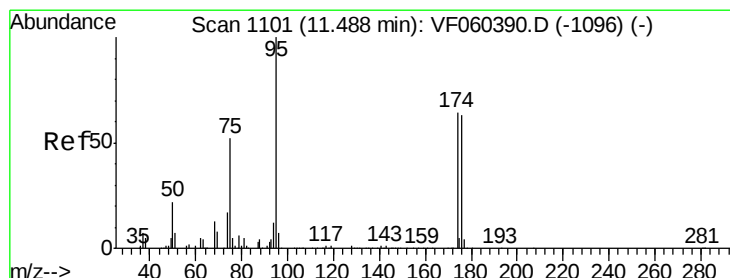
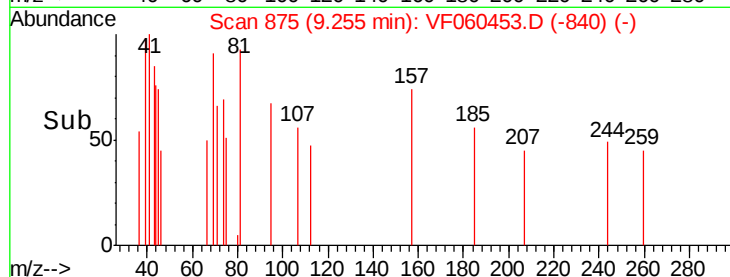
9.25

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 4.356 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

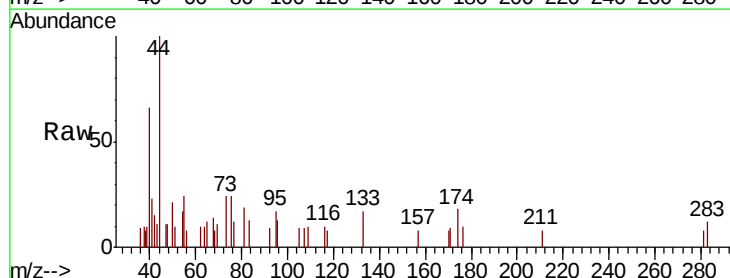
Tgt Ion: 95 Resp: 550

Ion Ratio Lower Upper

95 100

174 60.4 0.0 129.0

176 32.6 0.0 125.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

500

400

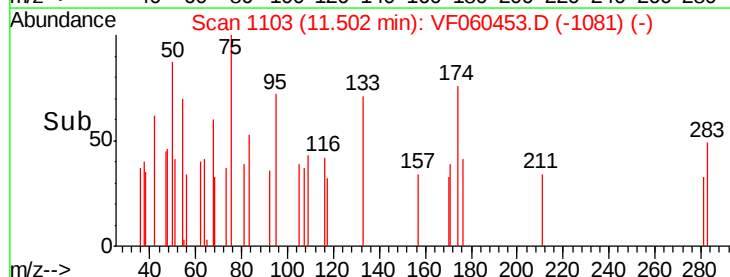
300

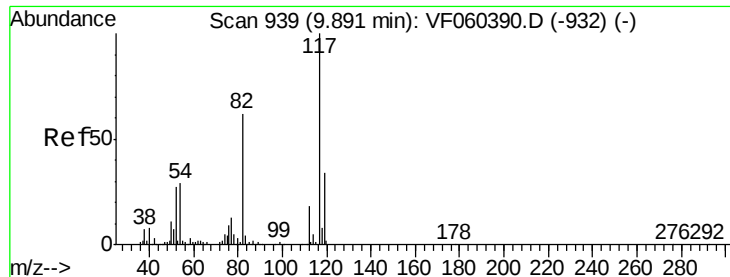
200

100

0

Time-->

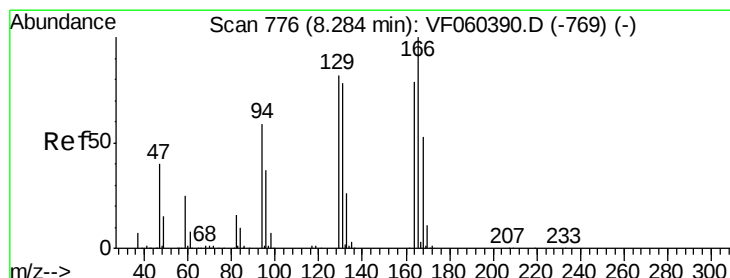
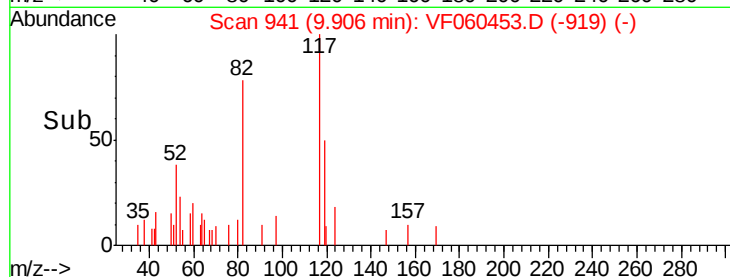
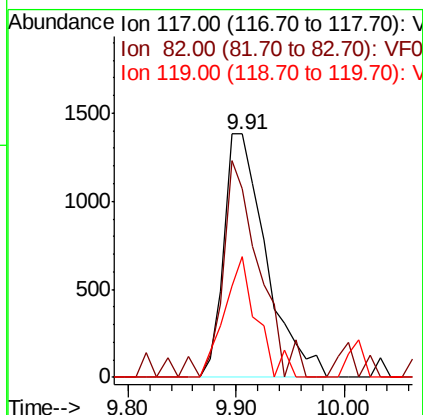
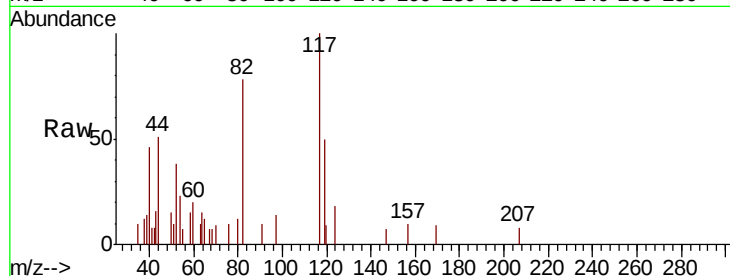




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.01 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

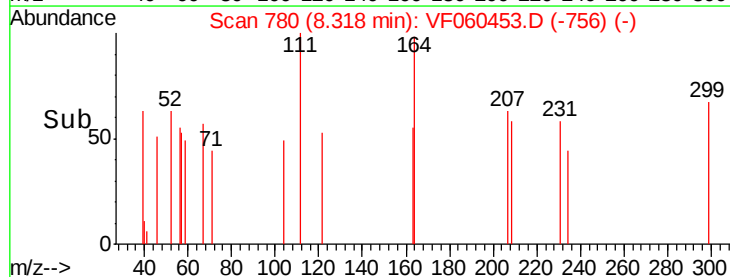
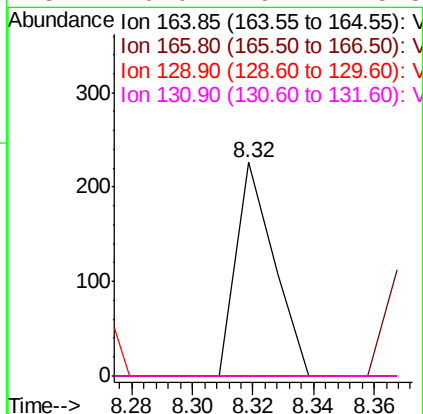
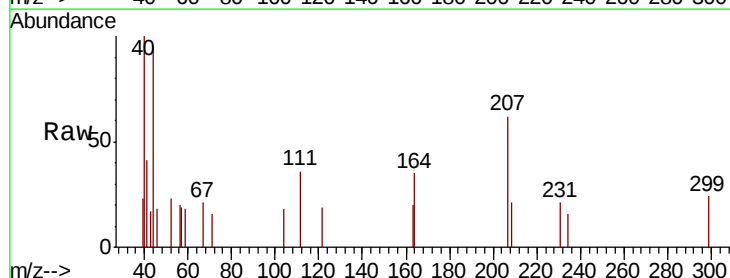
Instrument :
MSVOA_F
ClientSampleId :

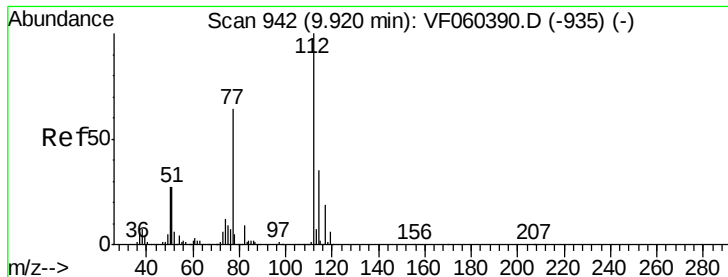
Tot Ion:117 Resp: 3756
Ion Ratio Lower Upper
117 100
82 77.6 49.5 74.3#
119 49.9 27.0 40.6#



#64
Tetrachloroethene
Concen: 6.598 ug/l
RT: 8.32 min Scan# 780
Delta R.T. 0.03 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion:164 Resp: 197
Ion Ratio Lower Upper
164 100
166 0.0 101.0 151.6#
129 0.0 82.5 123.7#
131 0.0 79.2 118.8#





#65

Chlorobenzene

Concen: 2.009 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.00 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

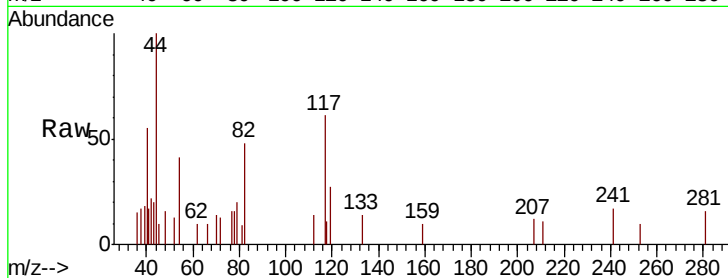
ClientSampleId :

Tot Ion:112 Resp: 155

Ion Ratio Lower Upper

112 100

114 0.0 27.7 41.5#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

9.93

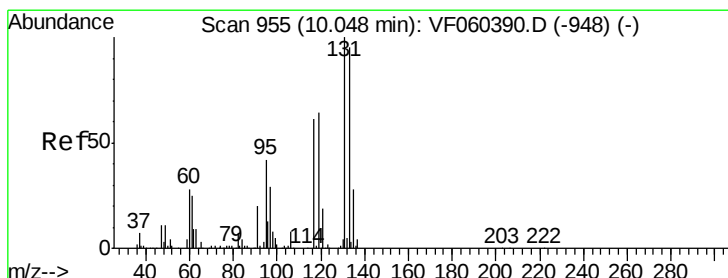
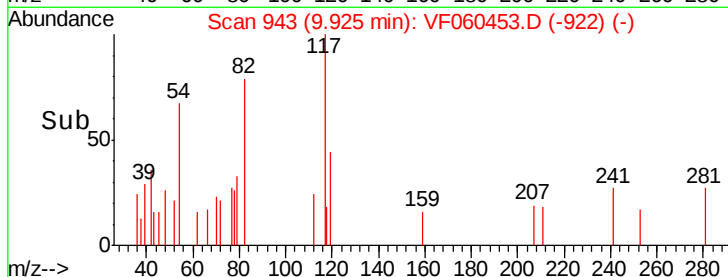
150

100

50

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 6.293 ug/l

RT: 10.17 min Scan# 968

Delta R.T. 0.12 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

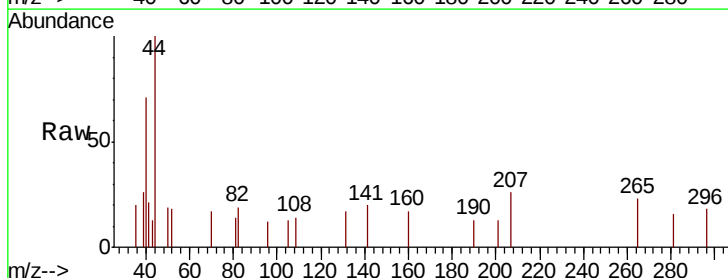
Tgt Ion:131 Resp: 212

Ion Ratio Lower Upper

131 100

133 0.0 47.3 141.8#

119 0.0 32.3 96.9#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

10.17

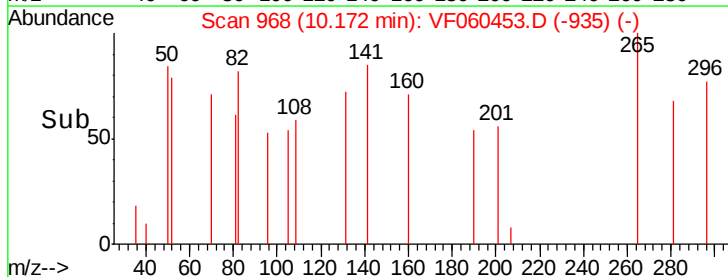
150

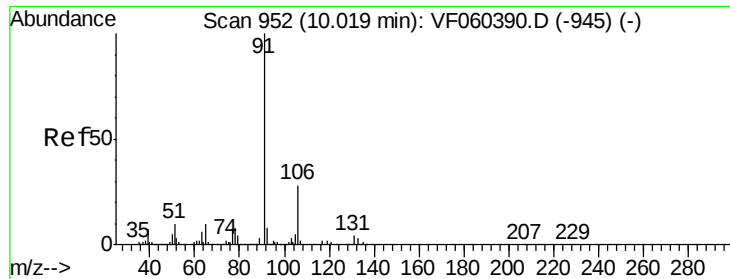
100

50

0

Time-->

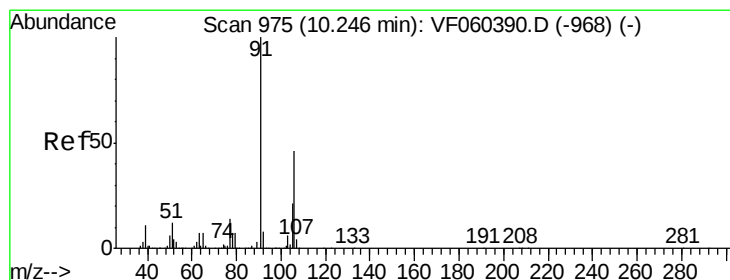
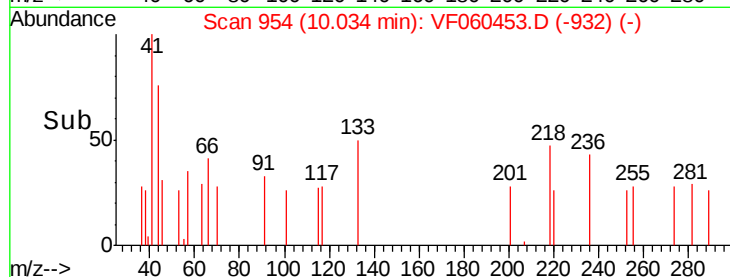
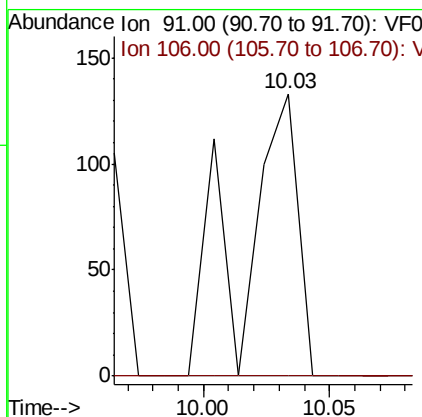
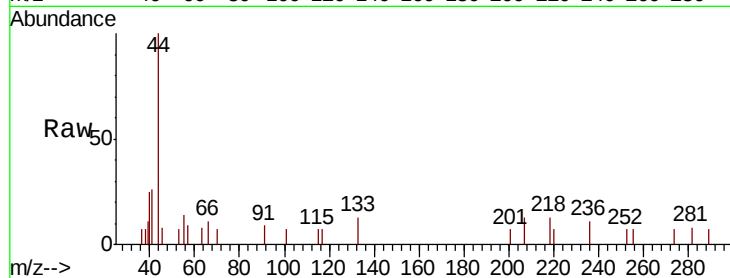




#67
Ethyl Benzene
Concen: 1.391 ug/l
RT: 10.03 min Scan# 954
Delta R.T. 0.01 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

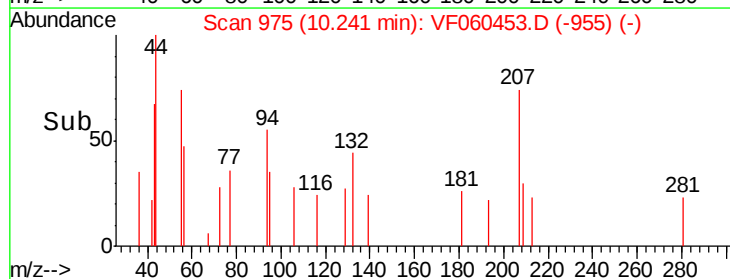
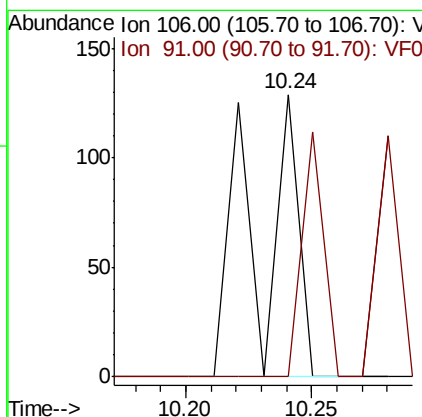
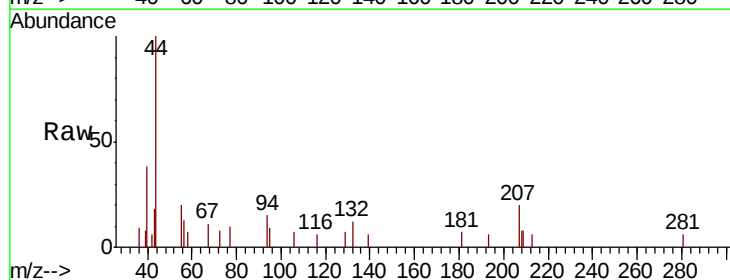
Instrument :
MSVOA_F
ClientSampled :

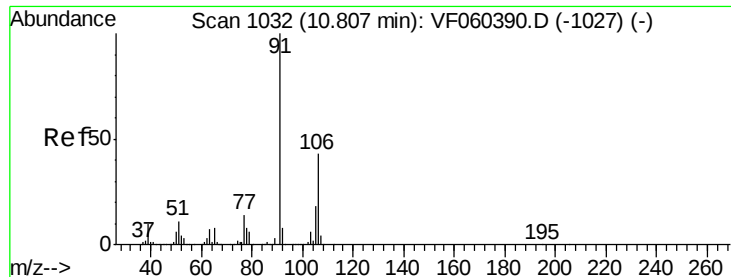
Tot Ion: 91 Resp: 204
Ion Ratio Lower Upper
91 100
106 0.0 22.5 33.7#



#68
m/p-Xylenes
Concen: 2.974 ug/l
RT: 10.24 min Scan# 975
Delta R.T. -0.00 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion: 106 Resp: 150
Ion Ratio Lower Upper
106 100
91 0.0 175.0 262.6#

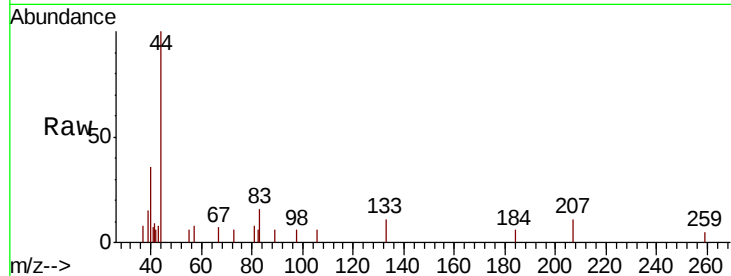




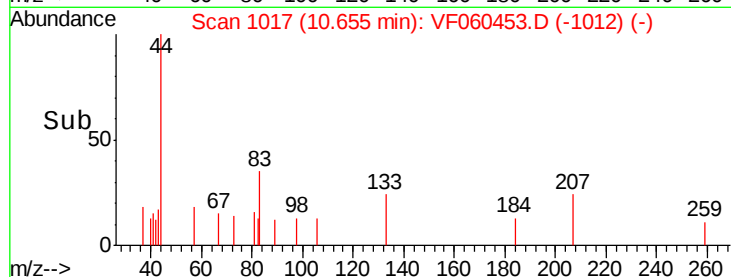
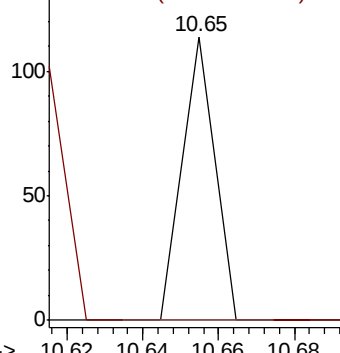
#69
o-Xylene
Concen: 1.219 ug/l
RT: 10.65 min Scan# 1017
Delta R.T. -0.15 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Instrument :
MSVOA_F
ClientSampled :

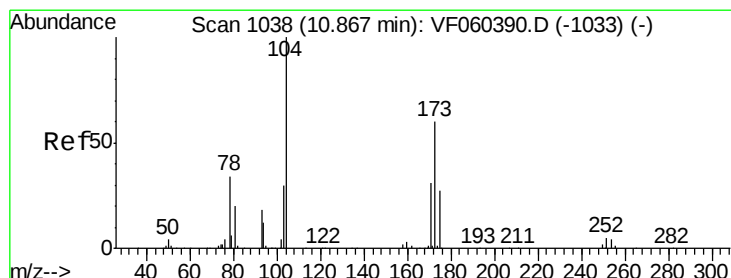
Tot Ion:106 Resp: 67
Ion Ratio Lower Upper
106 100
91 0.0 115.1 345.2#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

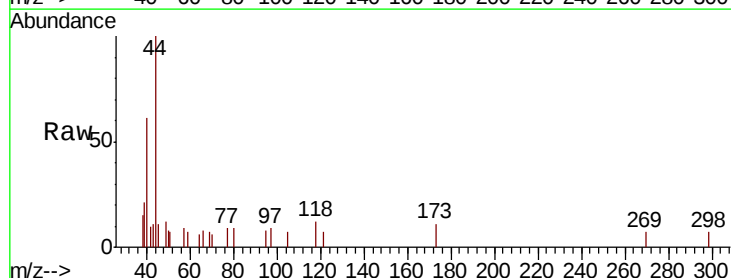


Time-->

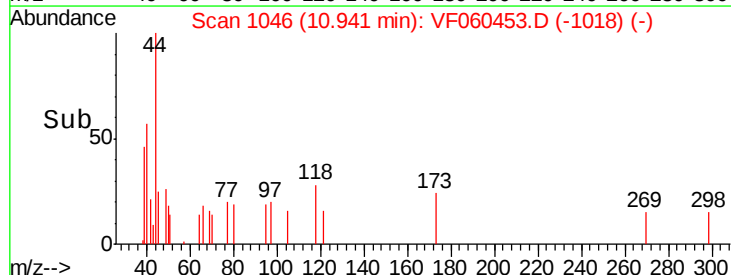
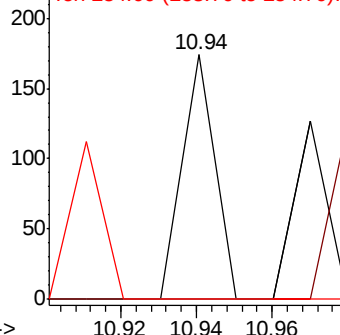


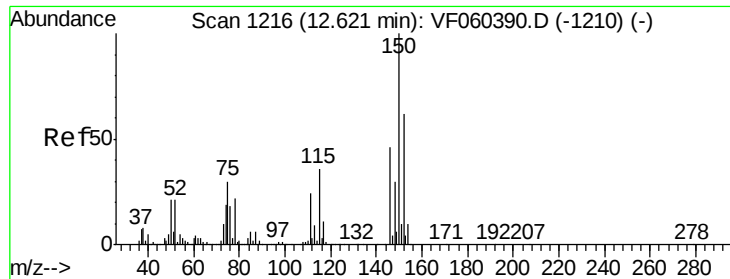
#71
Bromoform
Concen: 5.743 ug/l
RT: 10.94 min Scan# 1046
Delta R.T. 0.07 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion:173 Resp: 103
Ion Ratio Lower Upper
173 100
175 0.0 22.1 66.1#
254 0.0 0.0 0.0



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



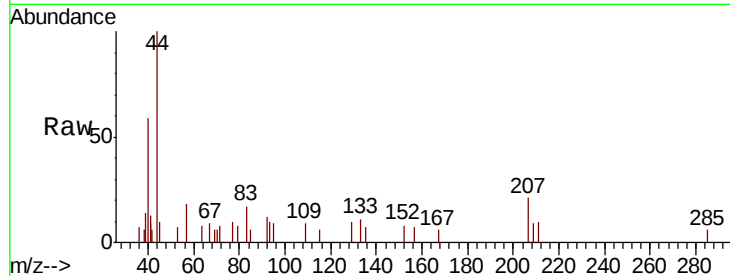


#72

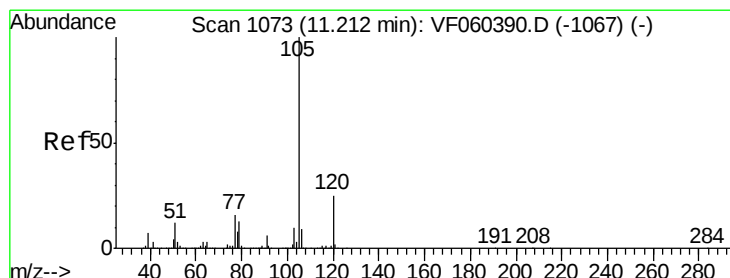
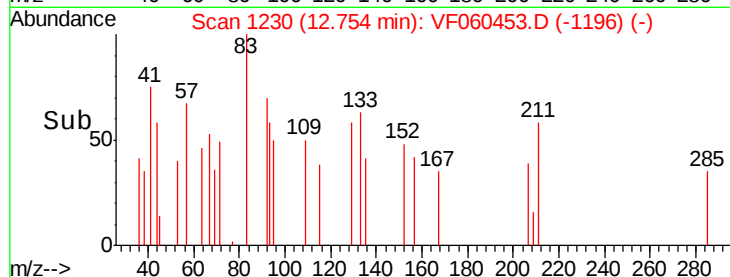
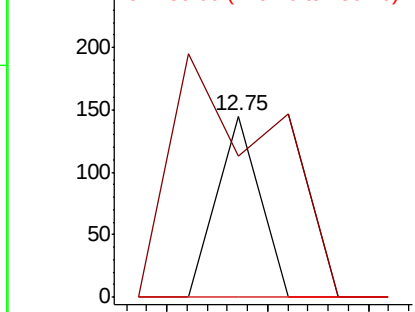
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.75 min Scan# 1230
Delta R.T. 0.13 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	77.9	28.6	85.8
150	0.0	0.0	324.6



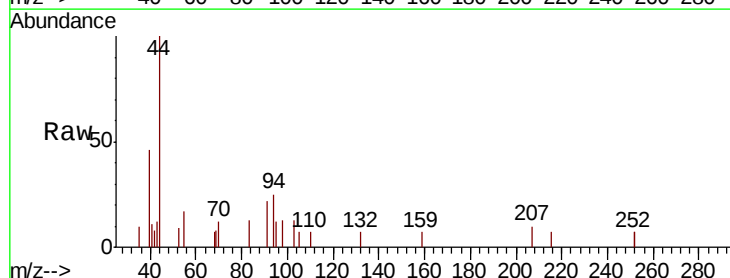
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



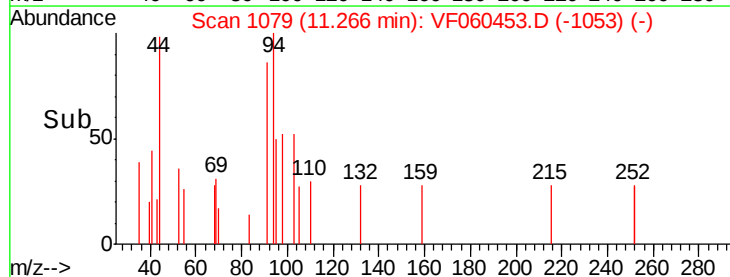
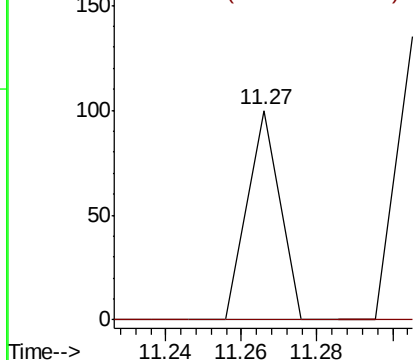
#73

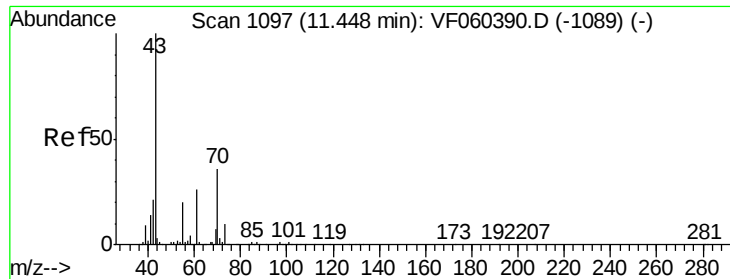
Isopropylbenzene
Concen: 8.713 ug/l
RT: 11.27 min Scan# 1079
Delta R.T. 0.05 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.3	36.9#



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





#74

N-amvl acetate

Concen: 497.401 ug/l

RT: 11.43 min Scan# 1096

Delta R.T. -0.01 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 773

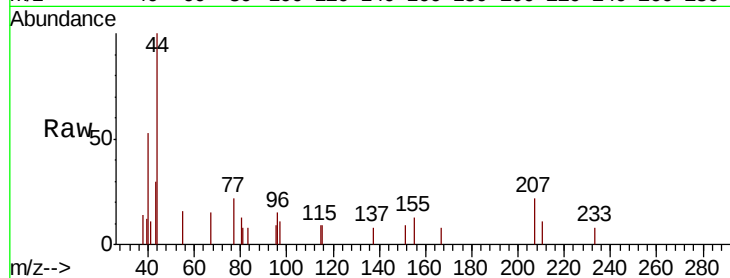
Ion Ratio Lower Upper

43 100

70 0.0 29.1 43.7#

55 52.6 16.3 24.5#

61 0.0 21.0 31.4#

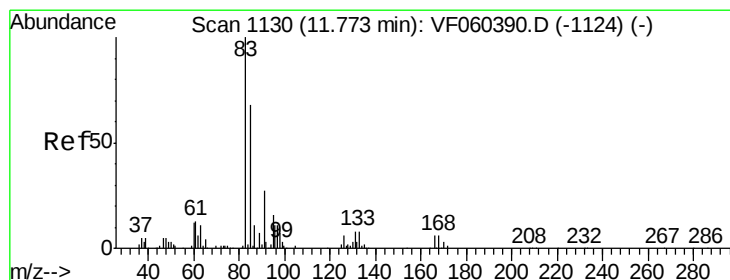
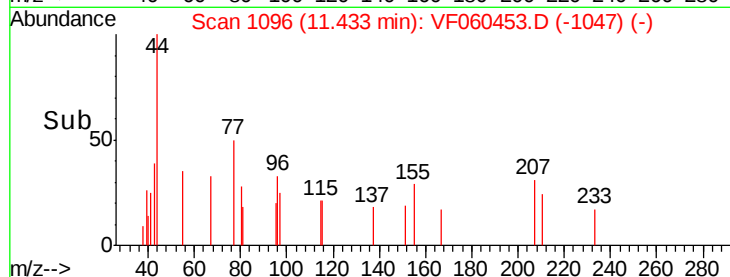
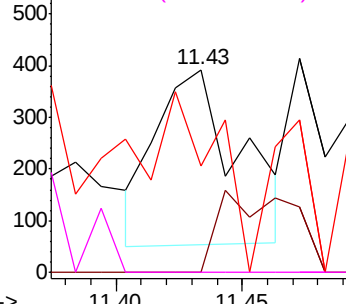


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 183.875 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

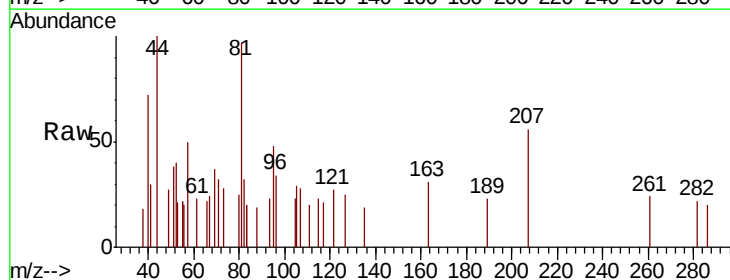
Tgt Ion: 83 Resp: 227

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

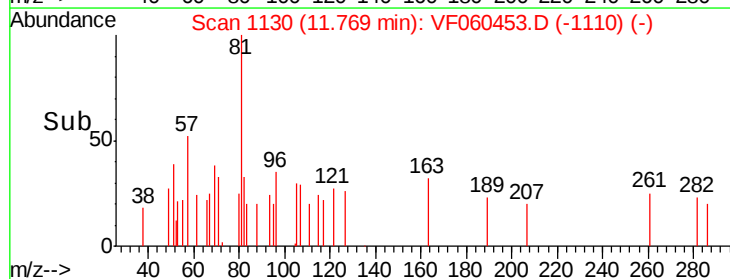
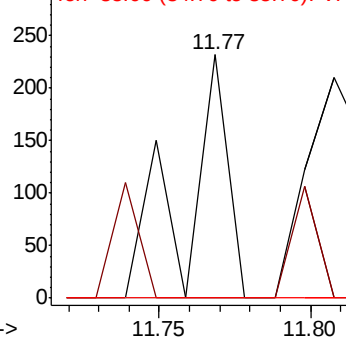
85 0.0 34.0 102.0#

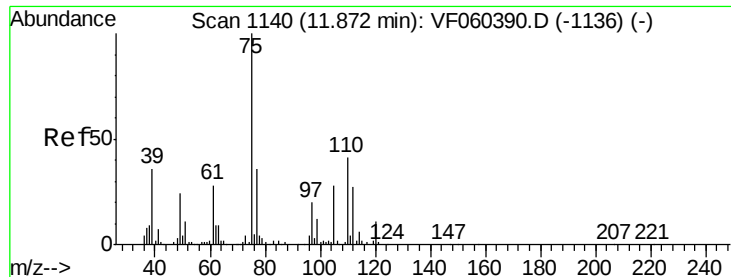


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 114.430 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.06 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

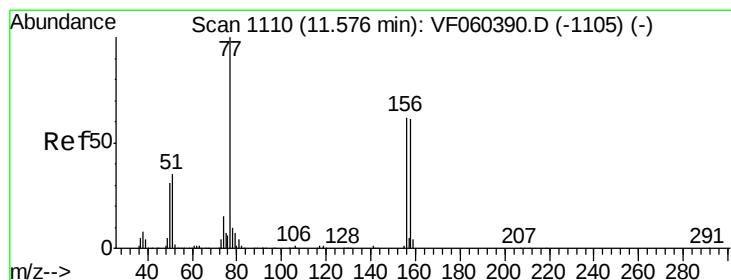
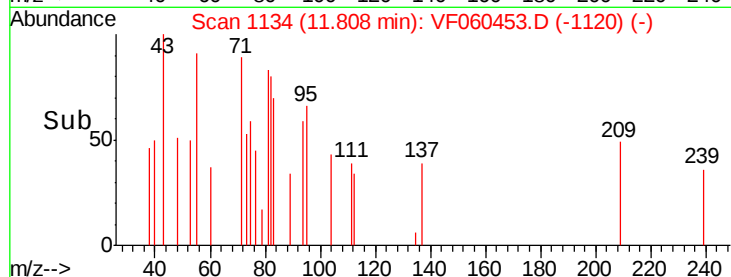
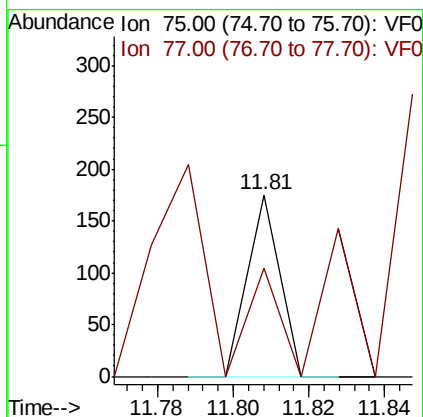
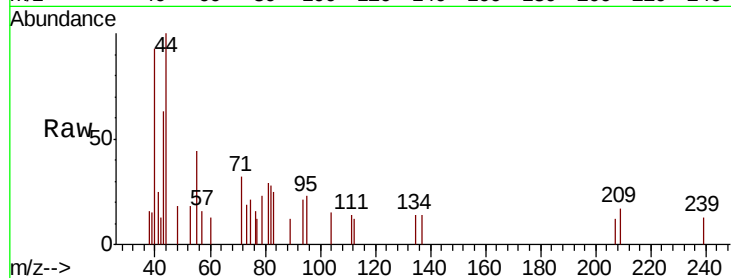
ClientSampleId :

Tot Ion: 75 Resp: 104

Ion Ratio Lower Upper

75 100

77 60.0 18.1 54.4#



#77

Bromobenzene

Concen: 42.943 ug/l

RT: 11.40 min Scan# 1093

Delta R.T. -0.17 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

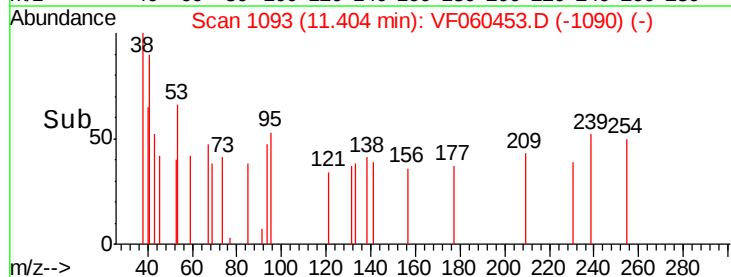
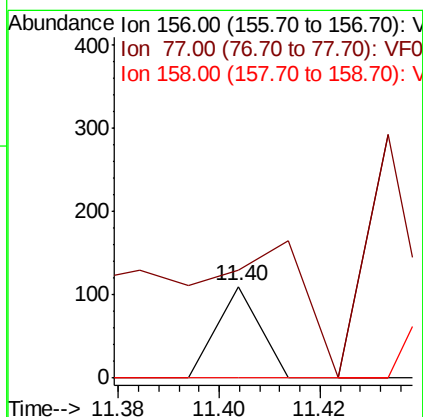
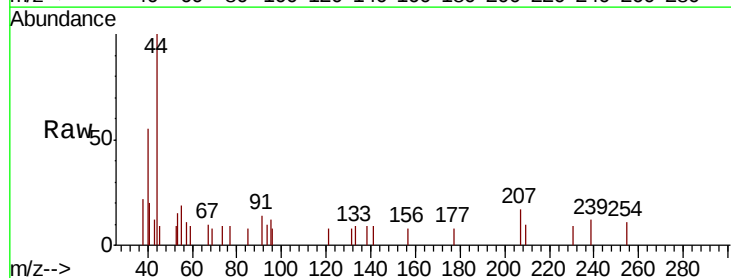
Tgt Ion: 156 Resp: 65

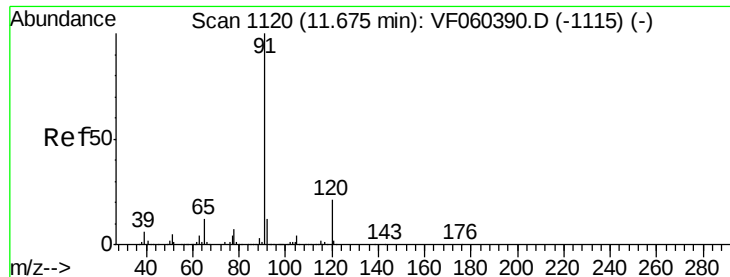
Ion Ratio Lower Upper

156 100

77 117.3 81.3 243.9

158 0.0 49.6 149.0#





#78

n-propylbenzene

Concen: 30.576 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

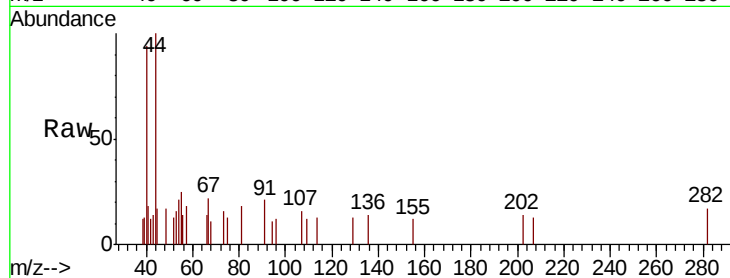
ClientSampled :

Tot Ion: 91 Resp: 251

Ion Ratio Lower Upper

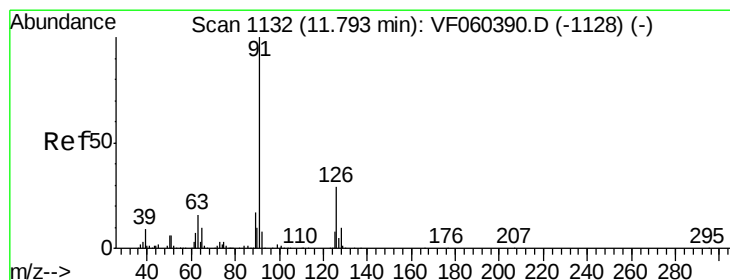
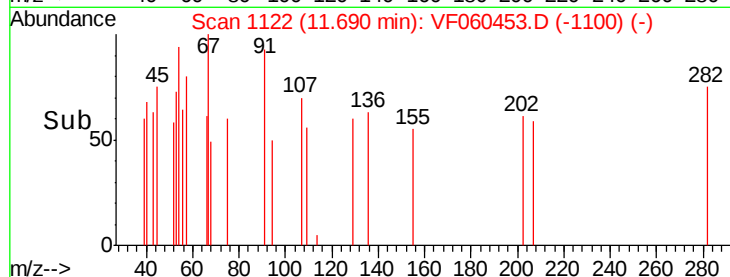
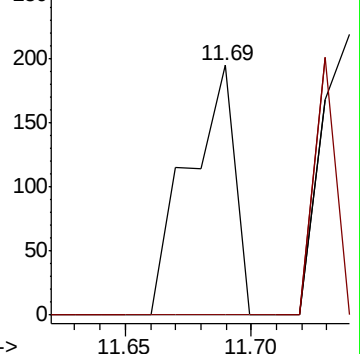
91 100

120 0.0 10.5 31.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 63.516 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF060453.D

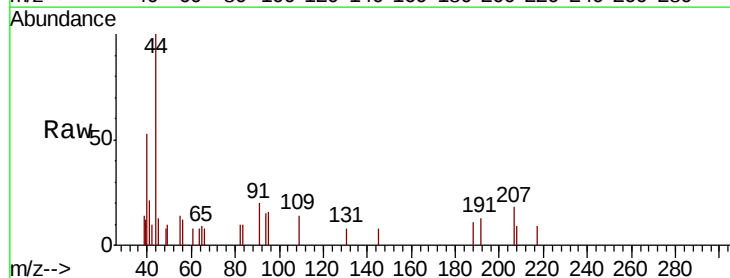
Acq: 4 Oct 2018 23:12

Tgt Ion: 91 Resp: 305

Ion Ratio Lower Upper

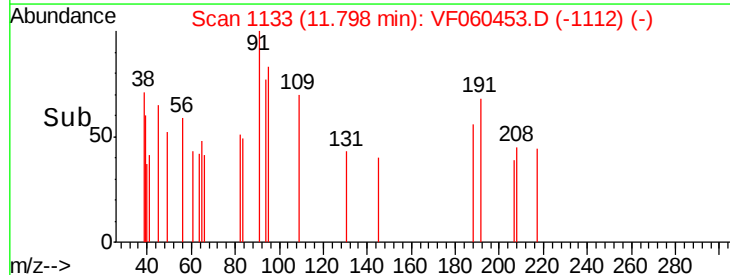
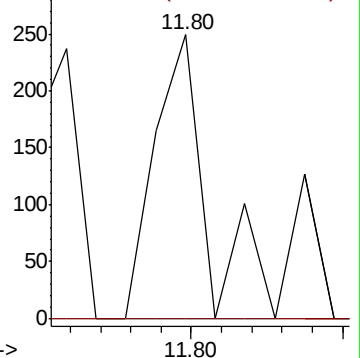
91 100

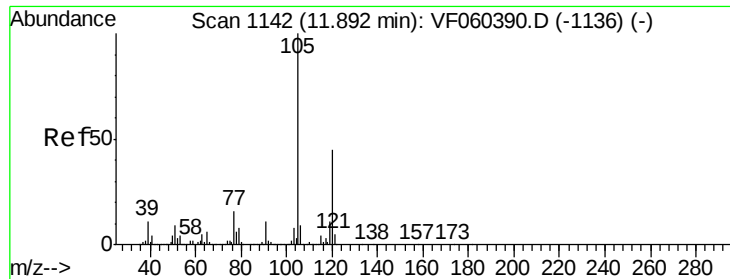
126 0.0 14.4 43.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#80

1,3,5-Trimethylbenzene

Concen: 12.515 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

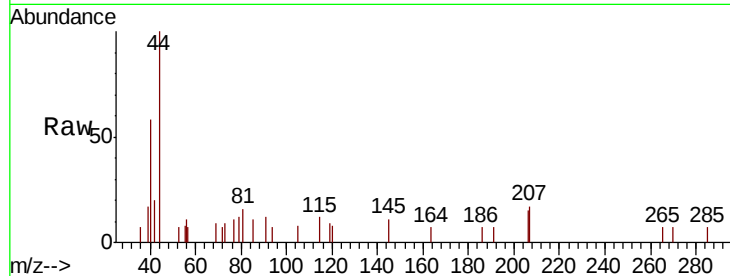
ClientSampled :

Tot Ion: 105 Resp: 72

Ion Ratio Lower Upper

105 100

120 105.8 22.3 66.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

150

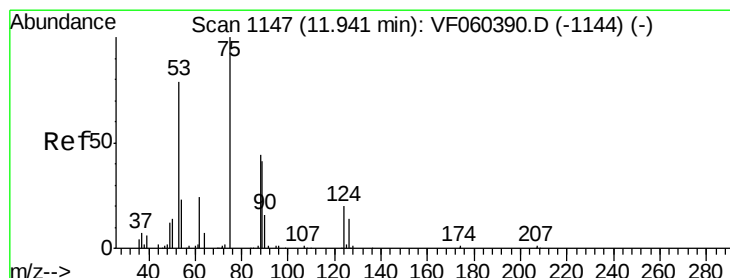
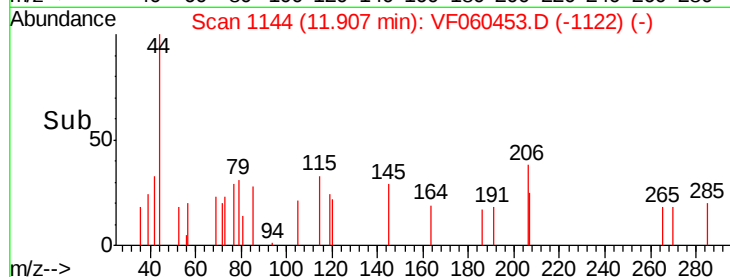
100

50

0

11.88 11.90 11.92

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 176.232 ug/l

RT: 12.01 min Scan# 1154

Delta R.T. 0.06 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

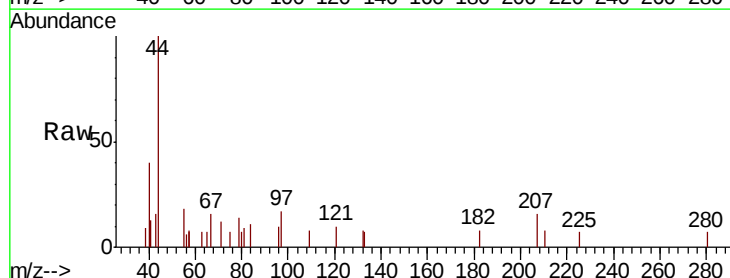
Tgt Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 36.7 55.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

200

150

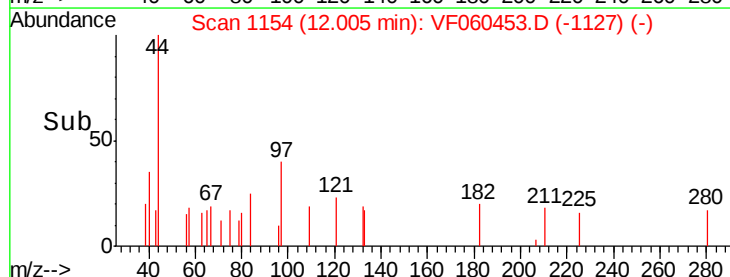
100

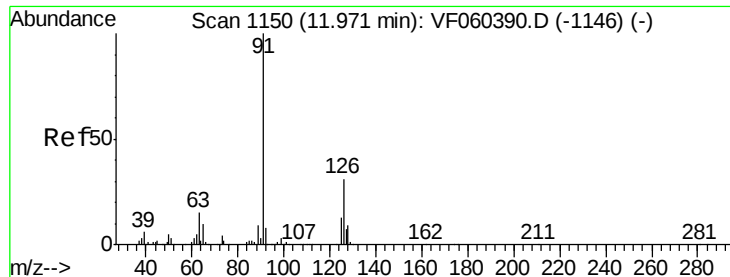
50

0

11.98 12.00 12.02

Time-->

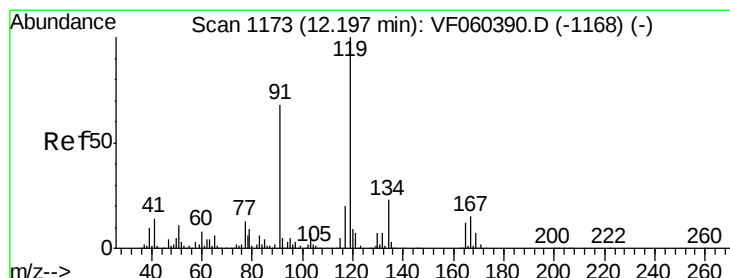
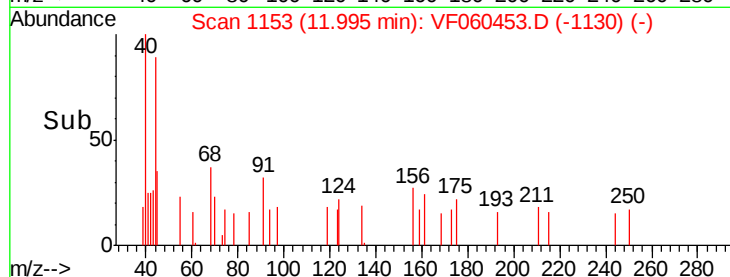
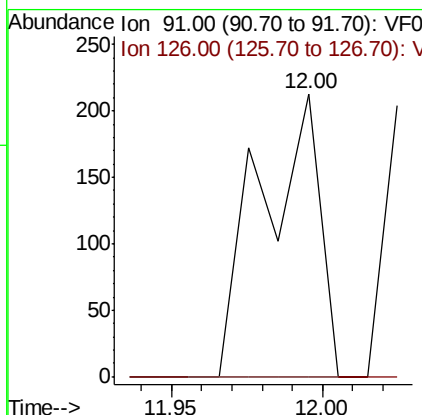
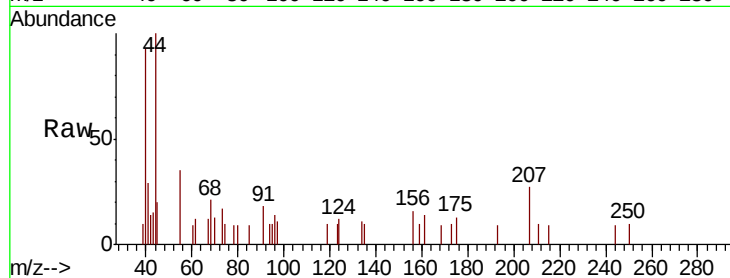




#82
4-Chlorotoluene
Concen: 58.618 ug/l
RT: 12.00 min Scan# 1153
Delta R.T. 0.02 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

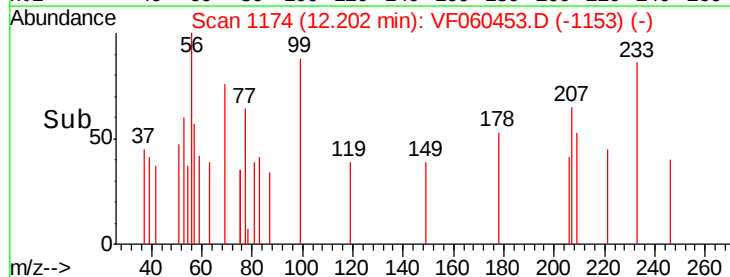
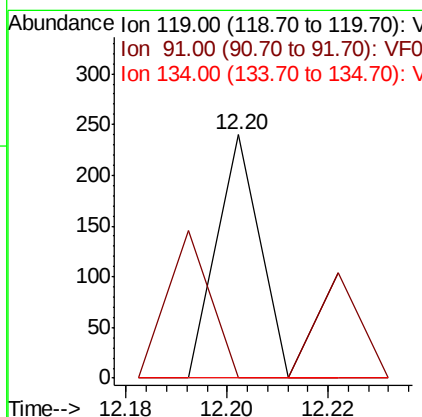
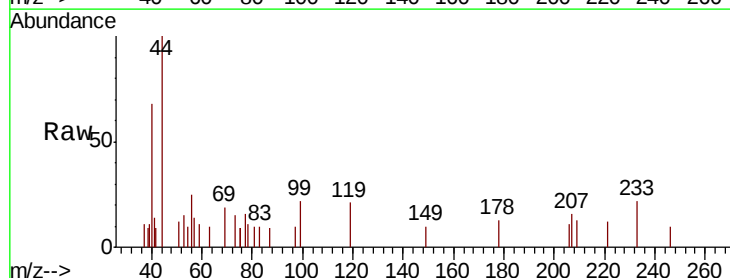
Instrument :
MSVOA_F
ClientSampled :

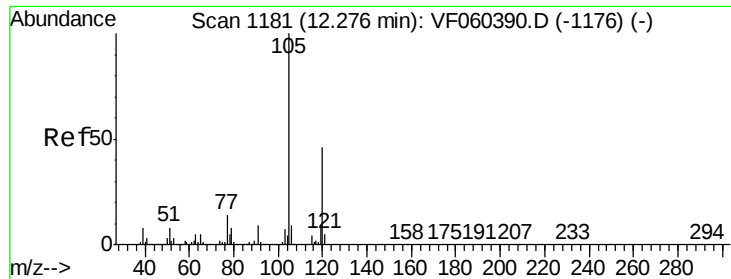
Tot Ion: 91 Resp: 288
Ion Ratio Lower Upper
91 100
126 0.0 15.7 47.0#



#83
tert-Butylbenzene
Concen: 25.025 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. 0.00 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion: 119 Resp: 142
Ion Ratio Lower Upper
119 100
91 0.0 34.0 102.0#
134 0.0 11.7 35.0#

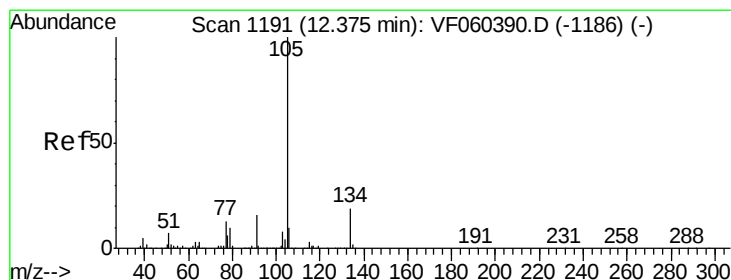
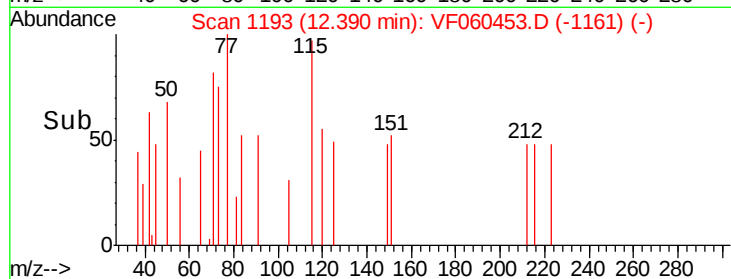
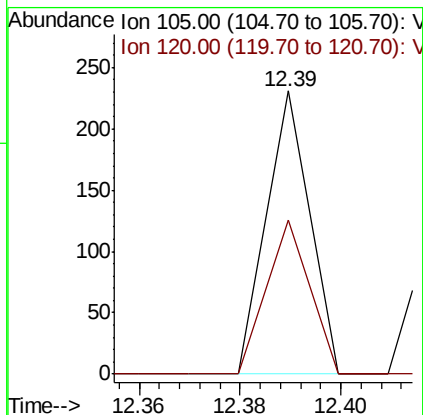
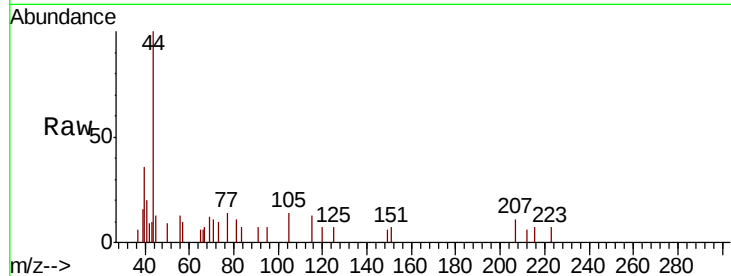




#84
 1,2,4-Trimethylbenzene
 Concen: 24.012 ug/l
 RT: 12.39 min Scan# 1193
 Delta R.T. 0.11 min
 Lab File: VF060453.D
 Acq: 4 Oct 2018 23:12

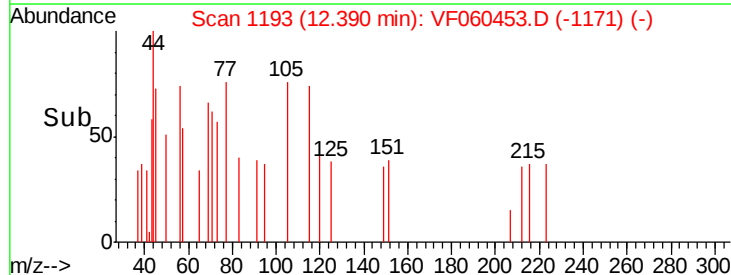
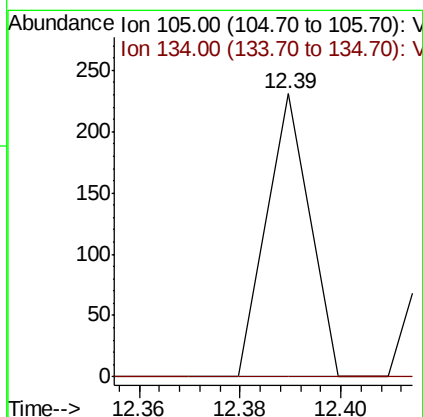
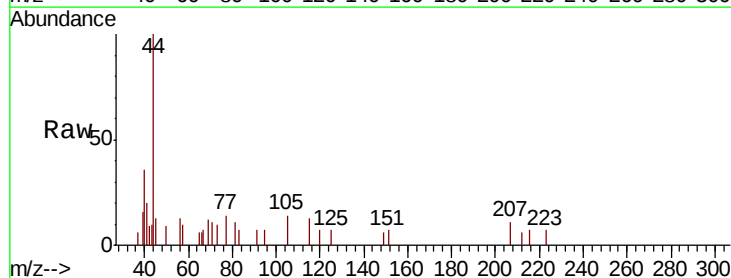
Instrument :
 MSVOA_F
 ClientSampleId :

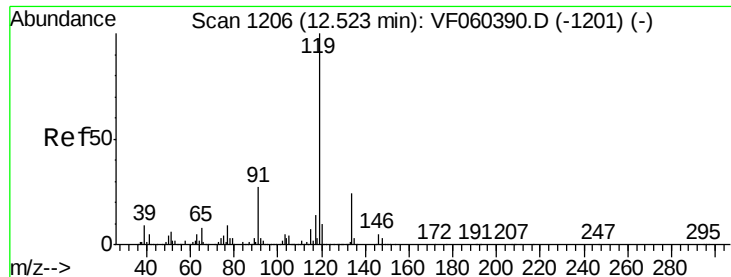
Tot Ion:105 Resp: 137
 Ion Ratio Lower Upper
 105 100
 120 54.5 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 17.491 ug/l
 RT: 12.39 min Scan# 1193
 Delta R.T. 0.01 min
 Lab File: VF060453.D
 Acq: 4 Oct 2018 23:12

Tgt Ion:105 Resp: 137
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.4 28.3#

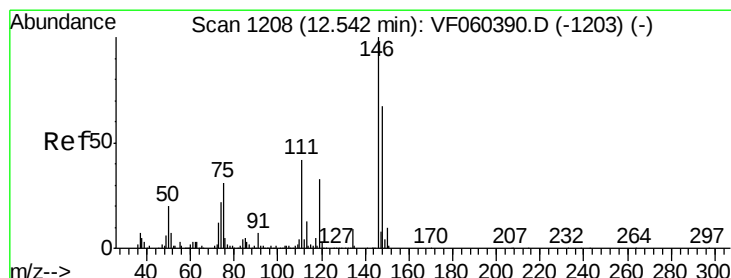
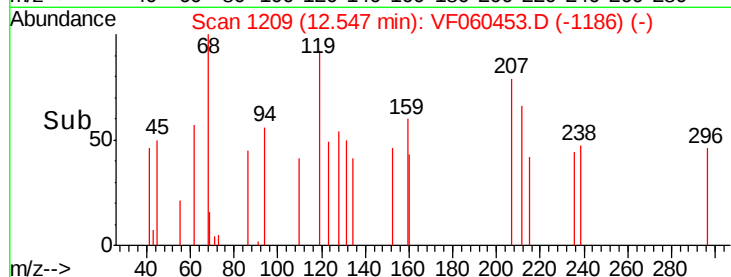
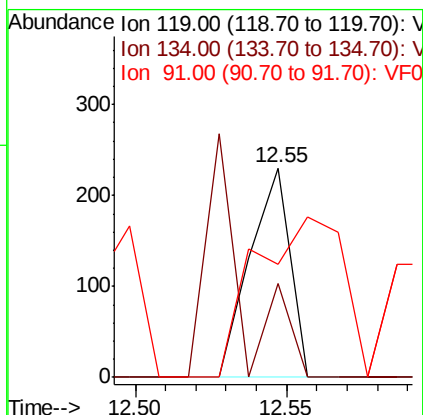
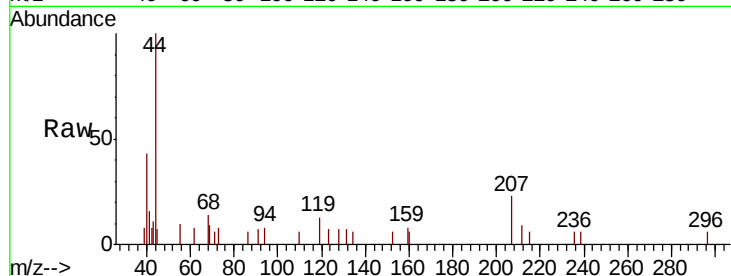




#86
 p-Isopropyltoluene
 Concen: 33.443 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. 0.02 min
 Lab File: VF060453.D
 Acq: 4 Oct 2018 23:12

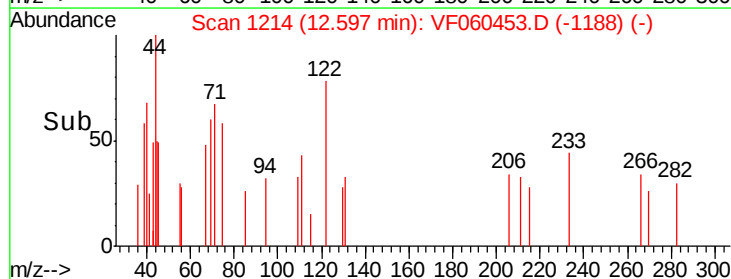
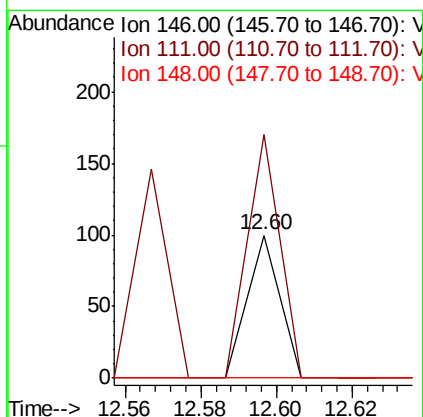
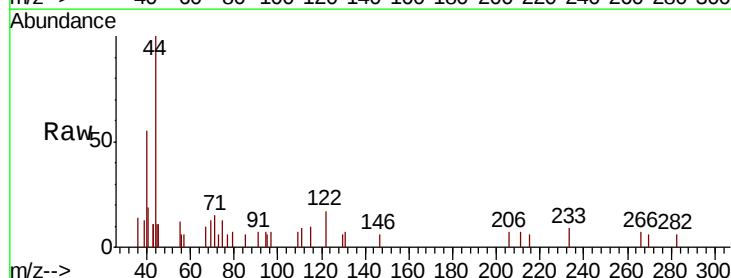
Instrument :
 MSVOA_F
 ClientSampleID :

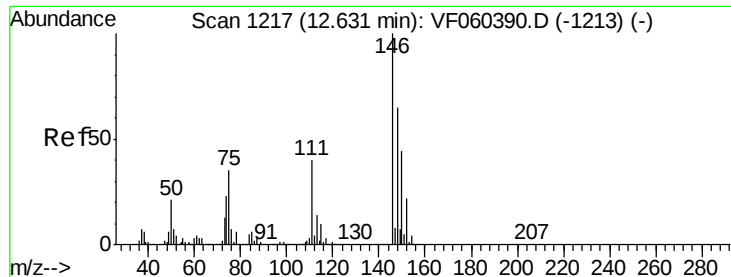
Tot Ion	Ratio	Lower	Upper
119	100		
134	44.8	12.3	36.8#
91	54.3	13.5	40.4#



#87
 1,3-Dichlorobenzene
 Concen: 20.714 ug/l
 RT: 12.60 min Scan# 1214
 Delta R.T. 0.05 min
 Lab File: VF060453.D
 Acq: 4 Oct 2018 23:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	170.0	20.9	62.7#
148	0.0	33.6	100.8#





#88

1,4-Dichlorobenzene

Concen: 21.007 ug/l

RT: 12.60 min Scan# 1214

Delta R.T. -0.03 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

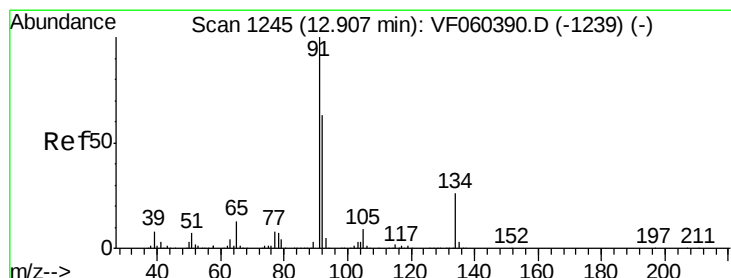
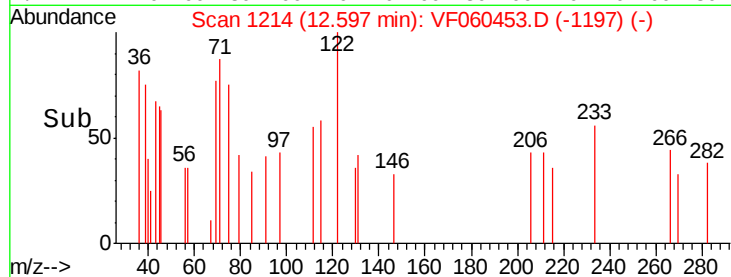
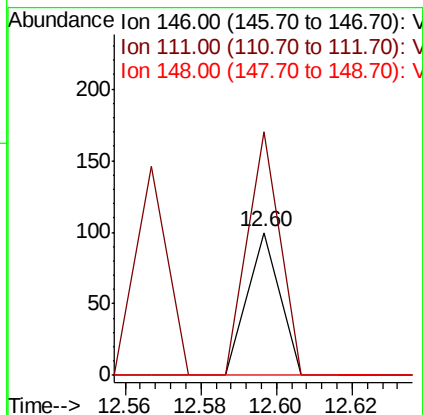
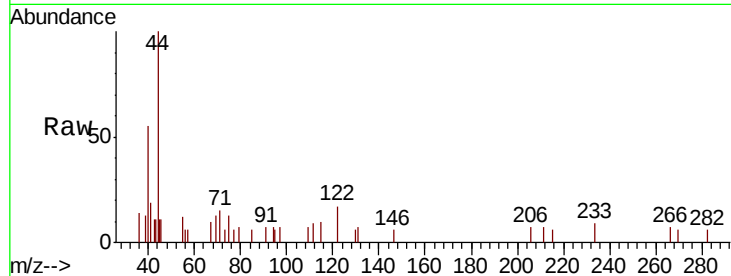
Instrument :

MSVOA_F

ClientSampled :

Tot Ion:146 Resp: 59

Ion	Ratio	Lower	Upper
146	100		
111	170.0	20.2	60.6#
148	0.0	32.6	97.8#



#89

n-Butylbenzene

Concen: 126.271 ug/l

RT: 12.90 min Scan# 1245

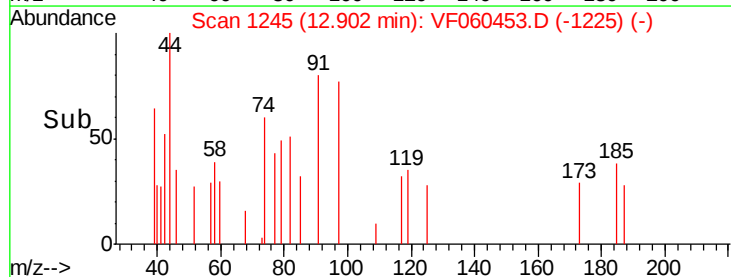
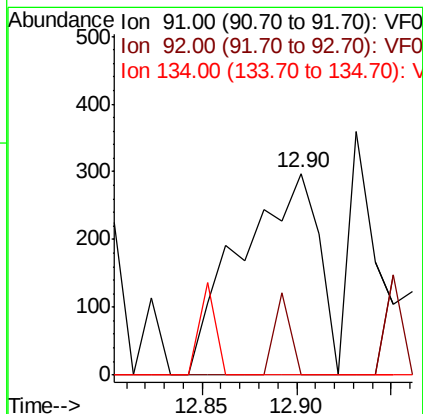
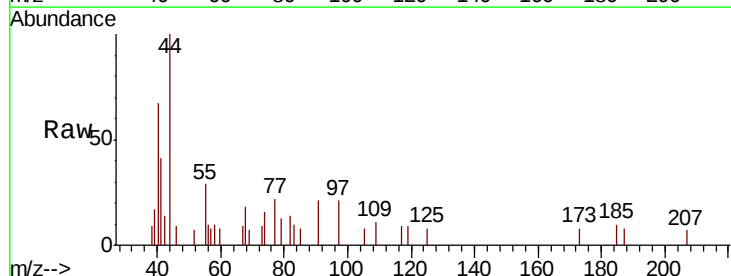
Delta R.T. -0.00 min

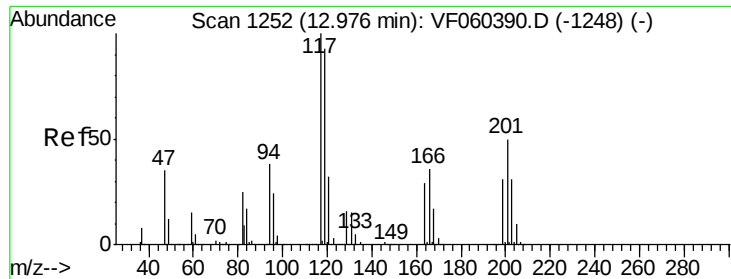
Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Tgt Ion: 91 Resp: 855

Ion	Ratio	Lower	Upper
91	100		
92	0.0	31.3	93.9#
134	0.0	13.0	38.9#

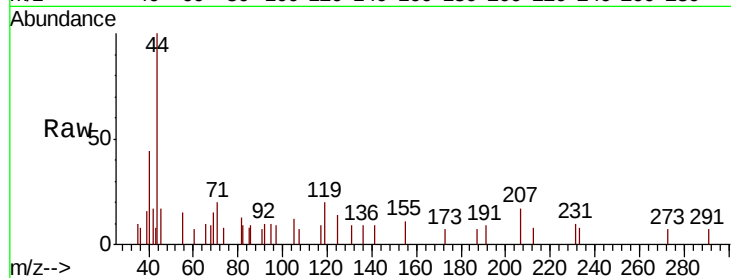




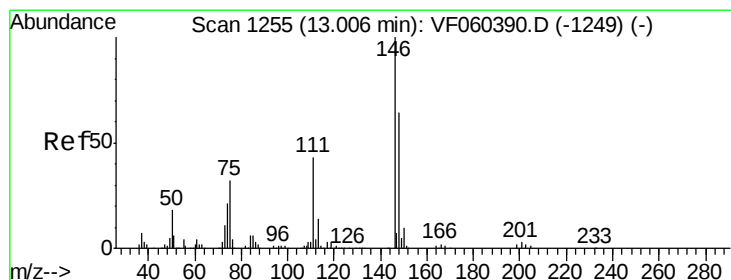
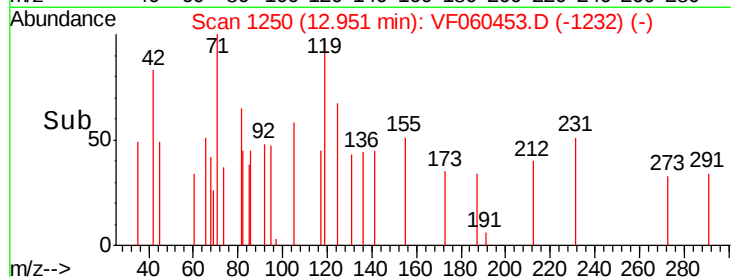
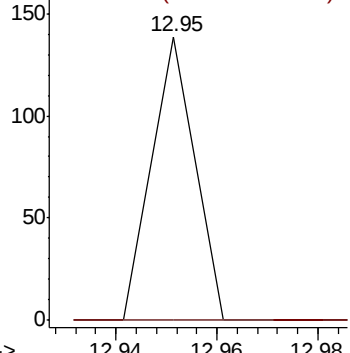
#90
Hexachloroethane
Concen: 49.581 ug/l
RT: 12.95 min Scan# 1250
Delta R.T. -0.02 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 82
Ion Ratio Lower Upper
117 100
201 0.0 25.5 76.5#

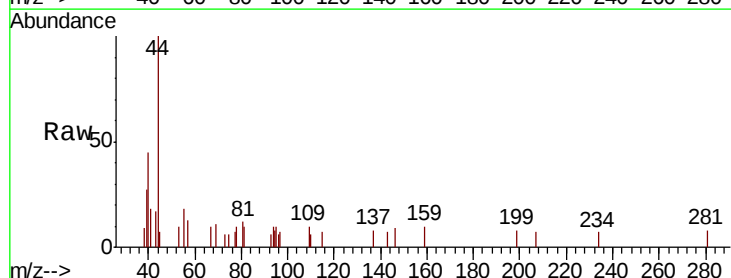


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 201.00 (200.70 to 201.70): V

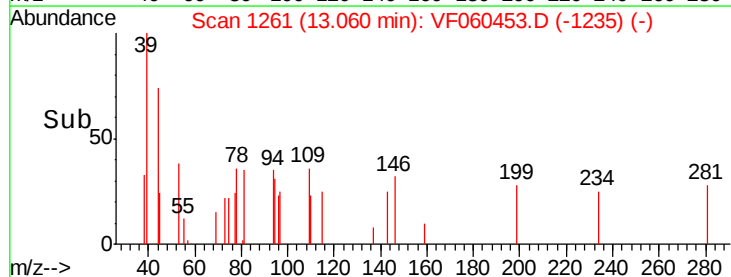
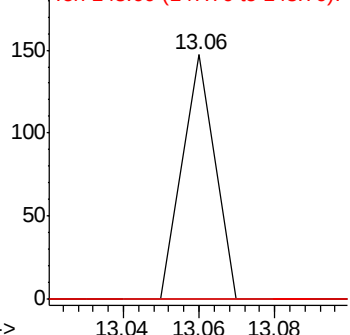


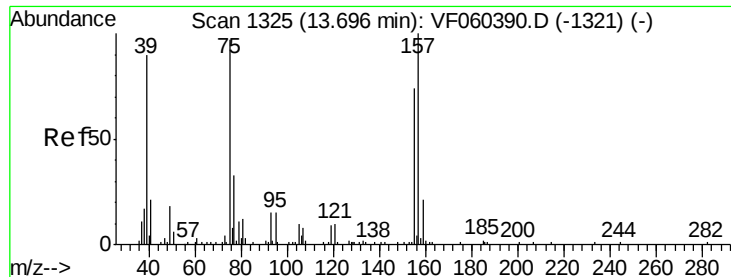
#91
1,2-Dichlorobenzene
Concen: 31.879 ug/l
RT: 13.06 min Scan# 1261
Delta R.T. 0.05 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion:146 Resp: 87
Ion Ratio Lower Upper
146 100
111 0.0 21.3 64.0#
148 0.0 32.2 96.6#



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 292.485 ug/l

RT: 13.69 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VF060453.D

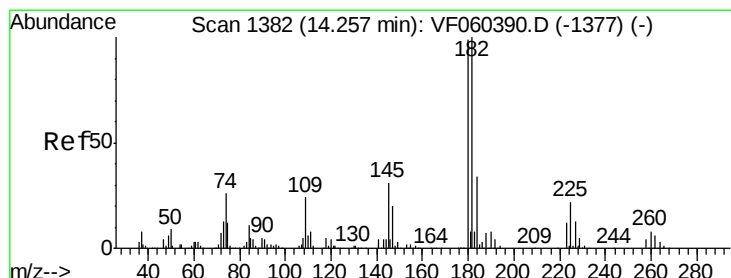
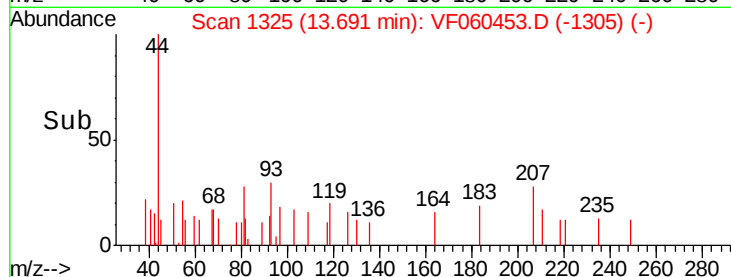
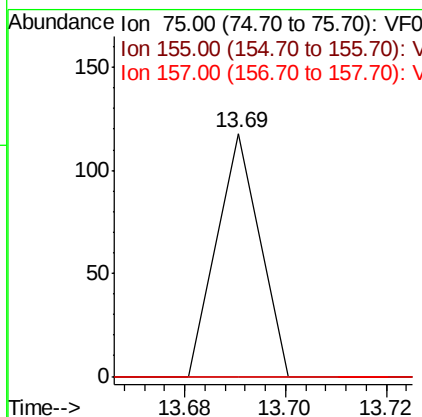
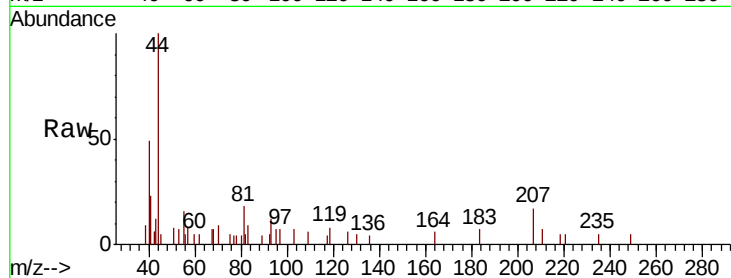
Acq: 4 Oct 2018 23:12

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	75	Resp:	70
Ion	Ratio	Lower	Upper
75	100		
155	0.0	37.9	113.6#
157	0.0	51.3	154.0#



#93

1,2,4-Trichlorobenzene

Concen: 30.395 ug/l

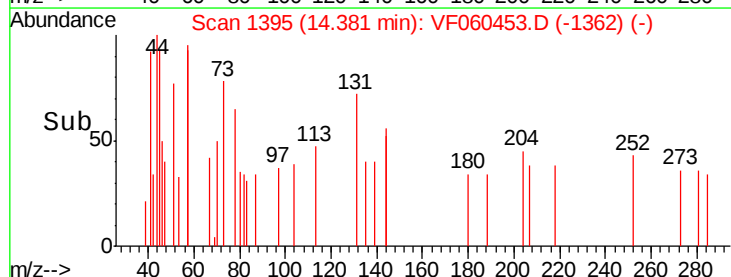
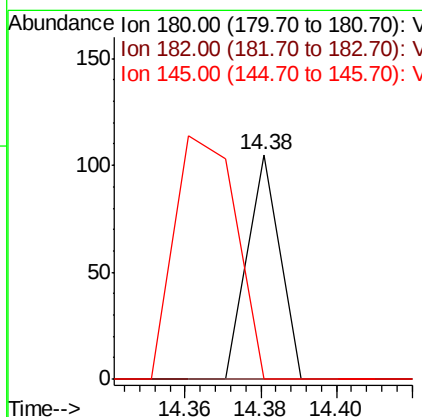
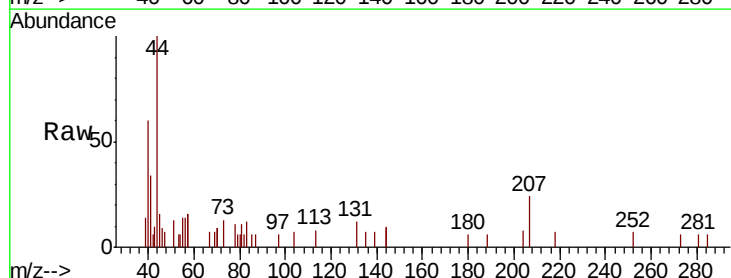
RT: 14.38 min Scan# 1395

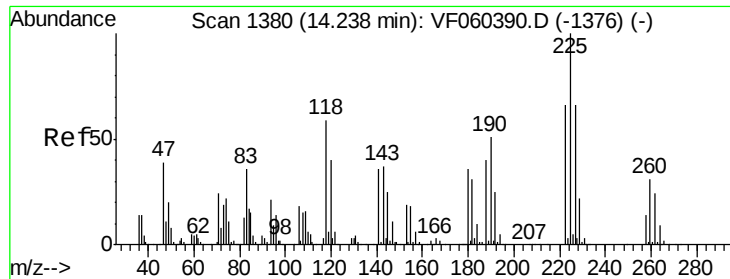
Delta R.T. 0.12 min

Lab File: VF060453.D

Acq: 4 Oct 2018 23:12

Tgt Ion:	180	Resp:	62
Ion	Ratio	Lower	Upper
180	100		
182	0.0	50.3	150.9#
145	0.0	15.5	46.5#

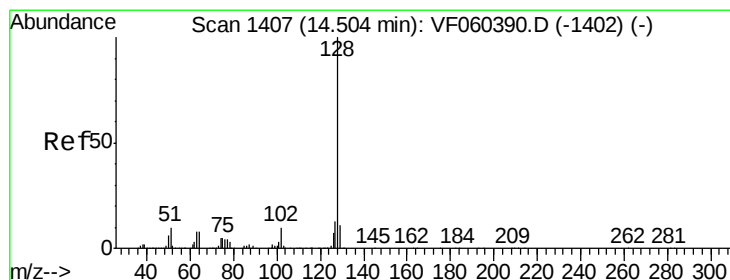
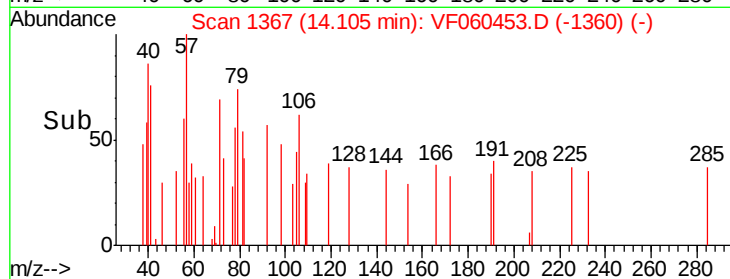
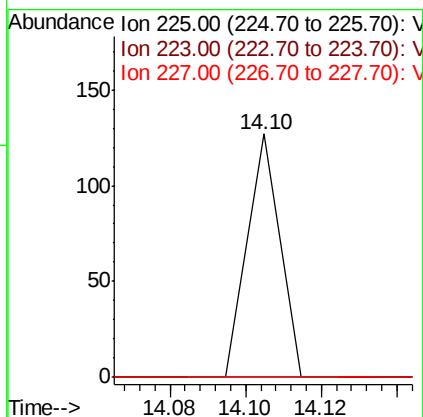
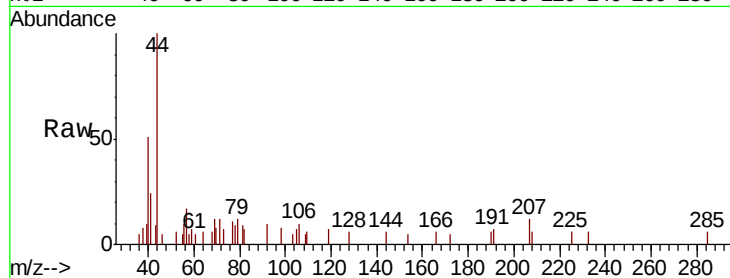




#94
Hexachlorobutadiene
Concen: 52.681 ug/l
RT: 14.10 min Scan# 1367
Delta R.T. -0.13 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

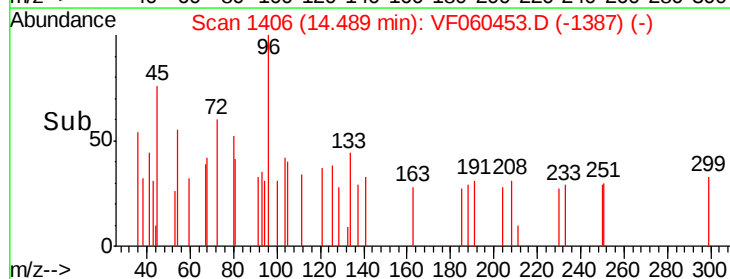
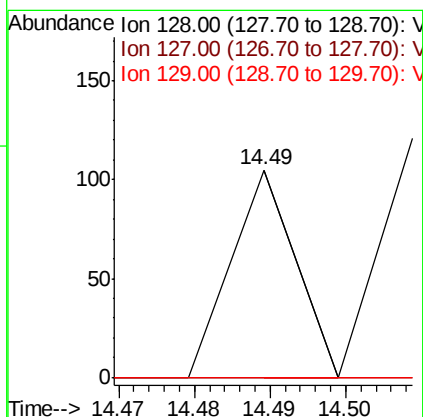
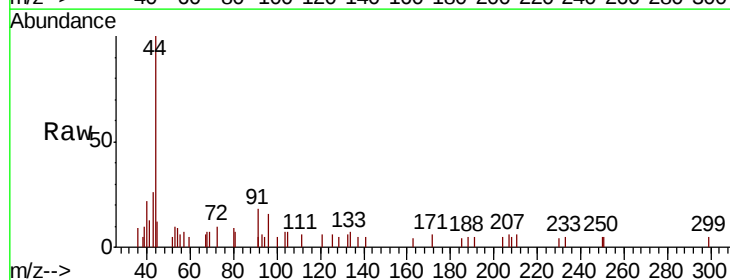
Instrument :
MSVOA_F
ClientSampleId :

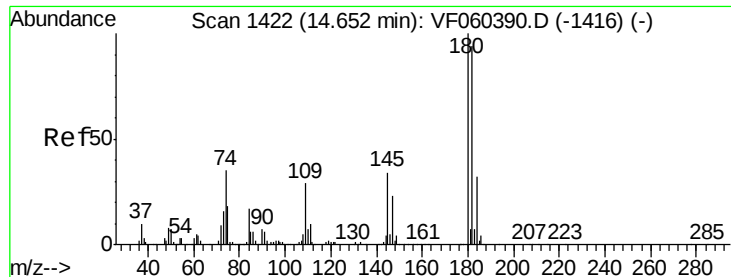
Tot Ion	Ratio	Lower	Upper
225	100		
223	0.0	32.8	98.4#
227	0.0	33.0	99.0#



#95
Naphthalene
Concen: 17.000 ug/l
RT: 14.49 min Scan# 1406
Delta R.T. -0.01 min
Lab File: VF060453.D
Acq: 4 Oct 2018 23:12

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.7	13.1#

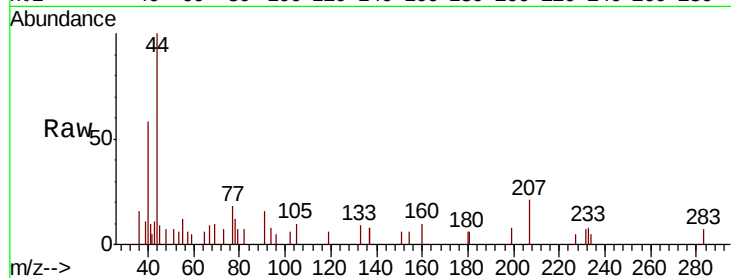




#96
 1,2,3-Trichlorobenzene
 Concen: 39.746 ug/l
 RT: 14.75 min Scan# 1432
 Delta R.T. 0.09 min
 Lab File: VF060453.D
 Acq: 4 Oct 2018 23:12

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.8	140.3#
145	0.0	16.9	50.6#



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

