

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061085.D
 Acq On : 19 Dec 2018 15:17
 Operator : VA/AP
 Sample : J6347-20RE
 Misc : 2.43g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:23:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	96587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	131503	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	51256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	9955	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	78628	63.29	ug/l	0.00
Spiked Amount			Recovery	=	126.58%	
35) Dibromofluoromethane	4.12	113	75747	71.91	ug/l	0.00
Spiked Amount			Recovery	=	143.82%	
50) Toluene-d8	7.56	98	103651	34.72	ug/l	0.00
Spiked Amount			Recovery	=	69.44%	
62) 4-Bromofluorobenzene	11.41	95	21130	15.35	ug/l	0.00
Spiked Amount			Recovery	=	30.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	1372	1.116	ug/l #	87
11) Tert butyl alcohol	2.57	59	264	5.266	ug/l #	1
13) Acrolein	2.00	56	14551	401.692	ug/l #	34
14) Allyl chloride	2.06	41	69813	78.793	ug/l #	43
15) Acrylonitrile	2.93	53	42294	364.848	ug/l #	48
16) Acetone	2.24	43	77151	310.661	ug/l	97
17) Carbon Disulfide	1.84	76	3354	1.304	ug/l	98
18) Methyl Acetate	2.37	43	231028	449.643	ug/l #	67
24) 1,1-Dichloroethane	2.93	63	7948	4.545	ug/l #	88
25) 2-Butanone	4.34	43	30390	75.453	ug/l #	82
29) Tetrahydrofuran	4.02	42	17500	106.753	ug/l #	1
31) Cyclohexane	3.69	56	81724	45.038	ug/l	96
37) Ethyl Acetate	4.01	43	95919	Below Cal	#	11
39) Methylcyclohexane	5.45	83	303198	212.913	ug/l	97
40) Benzene	4.63	78	57029	16.707	ug/l	96
41) Methacrylonitrile	4.67	41	44730	133.432	ug/l #	51
43) Isopropyl Acetate	7.02	43	5509	7.188	ug/l #	45
48) Methyl methacrylate	6.82	41	29889	55.861	ug/l #	46
49) 1,4-Dioxane	6.86	88	66	17.000	ug/l #	1
51) 4-Methyl-2-Pentanone	8.29	43	19359	36.829	ug/l #	46
52) Toluene	7.63	92	10794	4.777	ug/l	95
55) 1,1,2-Trichloroethane	8.38	97	6093	8.995	ug/l #	53
56) Ethyl methacrylate	8.63	69	23930	32.647	ug/l #	81
59) 2-Hexanone	9.49	43	745	1.960	ug/l #	57
65) Chlorobenzene	9.80	112	169520	160.094	ug/l	99
67) Ethyl Benzene	9.90	91	6776	3.513	ug/l	98
68) m/p-Xylenes	10.15	106	2177290	3207.143	ug/l	81
69) o-Xylene	10.72	106	350036	464.895	ug/l	87
70) Styrene	10.79	104	787	Below Cal	#	66
73) Isopropylbenzene	11.12	105	39167	45.656	ug/l	96
74) N-amyl acetate	11.40	43	549	2.882	ug/l #	36
75) 1,1,2,2-Tetrachloroethane	11.67	83	1812	12.727	ug/l #	33
76) 1,2,3-Trichloropropane	11.82	75	1554	14.666	ug/l #	1
78) n-propylbenzene	11.60	91	68712	79.062	ug/l	98

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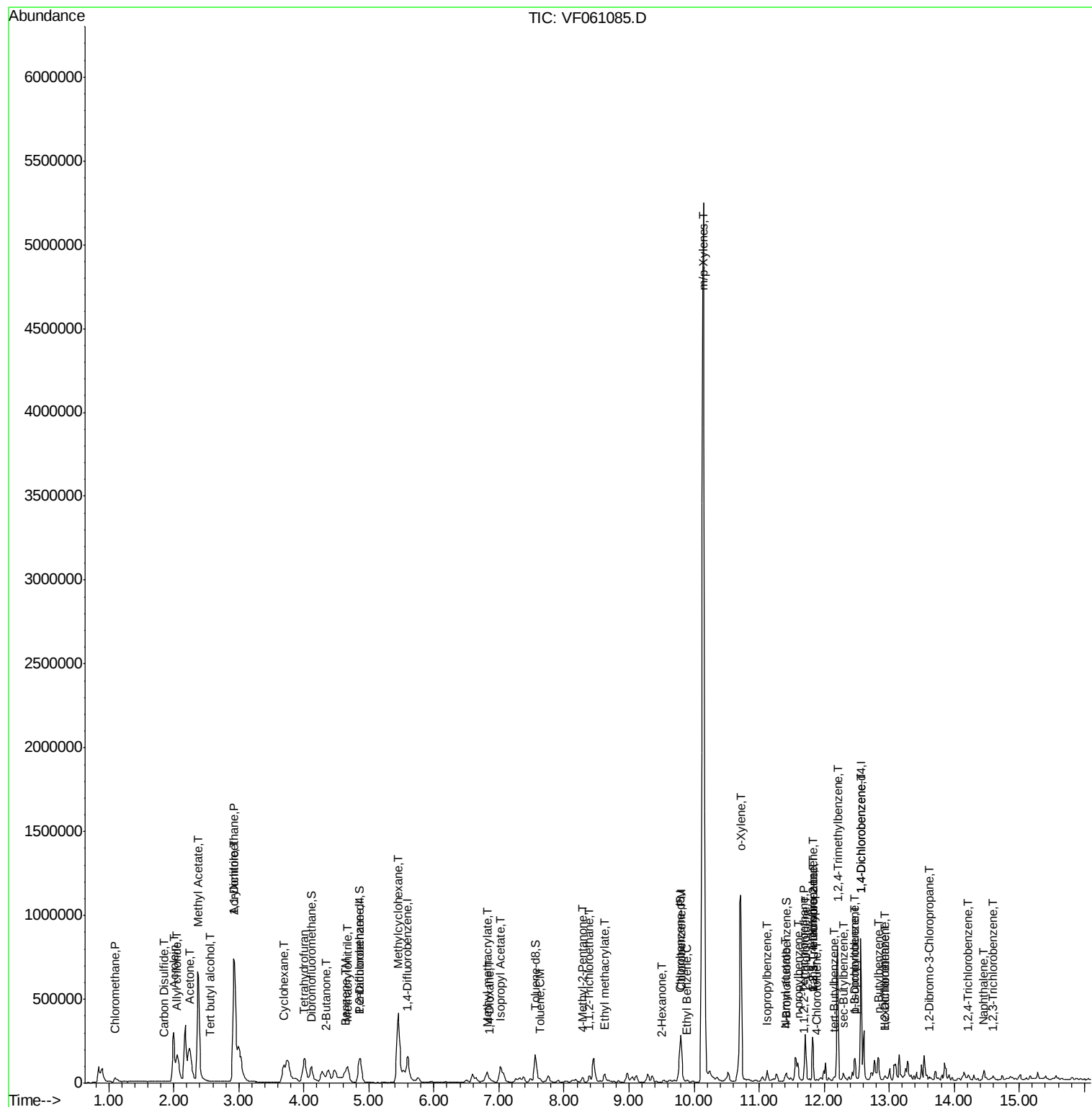
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 2-Chlorotoluene	11.70	91	24577	41.762	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.82	105	135583	191.937	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.82	75	1554	34.130	ug/l #	1
82) 4-Chlorotoluene	11.90	91	1527	2.508	ug/l	85
83) tert-Butylbenzene	12.14	119	2186	3.007	ug/l	75
84) 1,2,4-Trimethylbenzene	12.21	105	399886	567.675	ug/l	98
85) sec-Butylbenzene	12.31	105	15819	16.676	ug/l #	73
86) p-Isopropyltoluene	12.46	119	50384	63.989	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	39565	141.079	ug/l	93
88) 1,4-Dichlorobenzene	12.56	146	299307	882.646	ug/l	98
89) n-Butylbenzene	12.84	91	29264	34.290	ug/l #	58
90) Hexachloroethane	12.93	117	677	3.480	ug/l #	27
91) 1,2-Dichlorobenzene	12.95	146	3623	10.974	ug/l	90
92) 1,2-Dibromo-3-Chloropropan	13.63	75	154	5.894	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.20	180	962	4.109	ug/l #	76
95) Naphthalene	14.46	128	36200	84.670	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	807	3.728	ug/l #	70

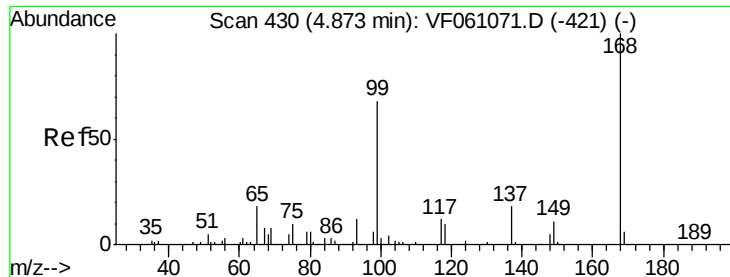
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

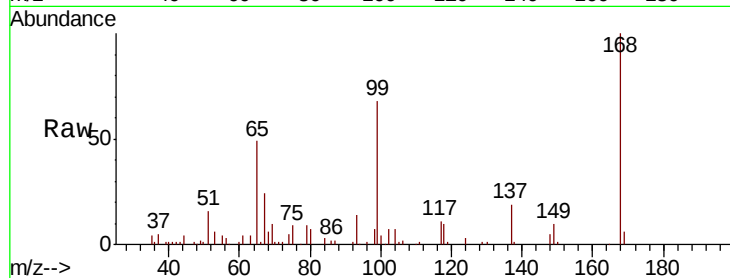
ClientSampleId :

Tot Ion:168 Resp: 96587

Ion Ratio Lower Upper

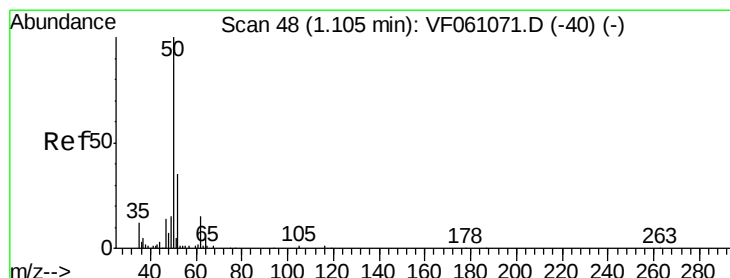
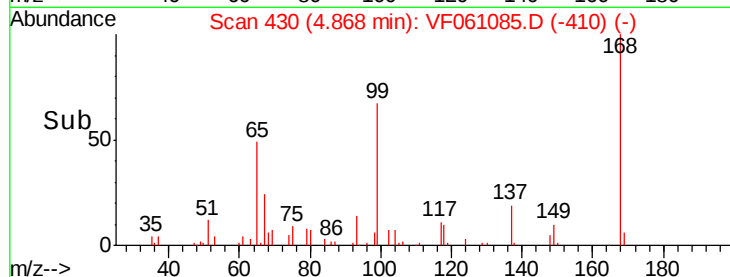
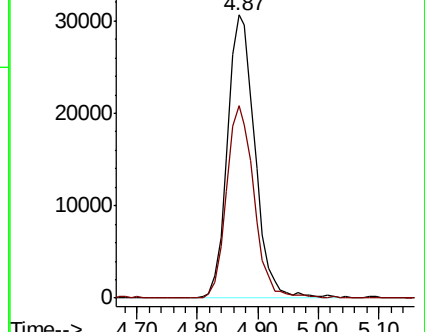
168 100

99 67.9 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.116 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061085.D

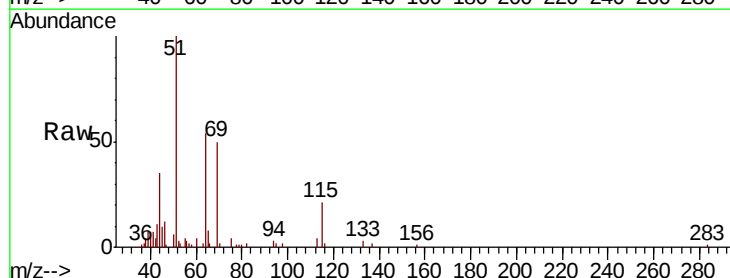
Acq: 19 Dec 2018 15:17

Tgt Ion: 50 Resp: 1372

Ion Ratio Lower Upper

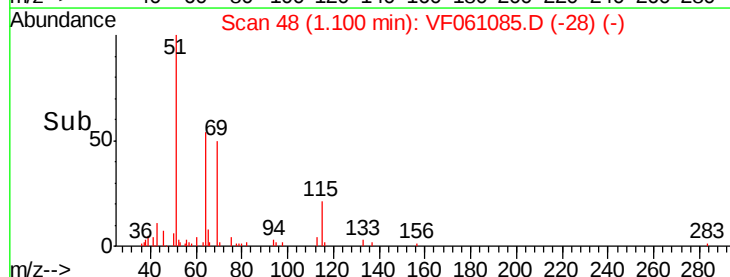
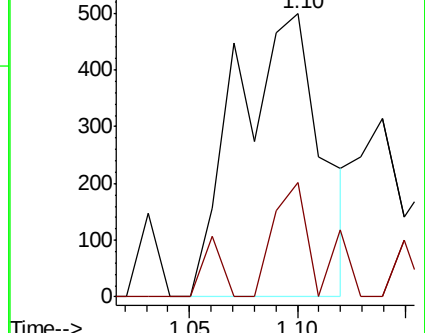
50 100

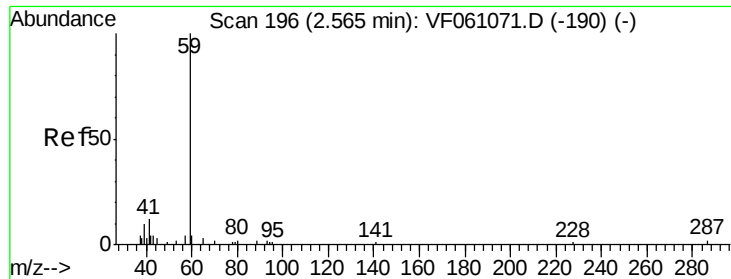
52 40.5 26.3 39.5#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

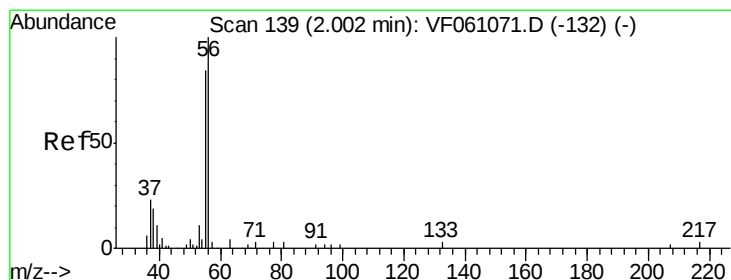
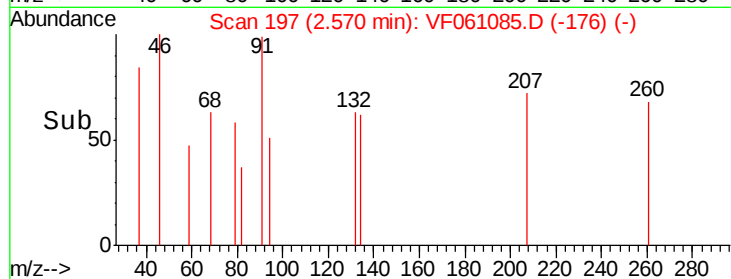
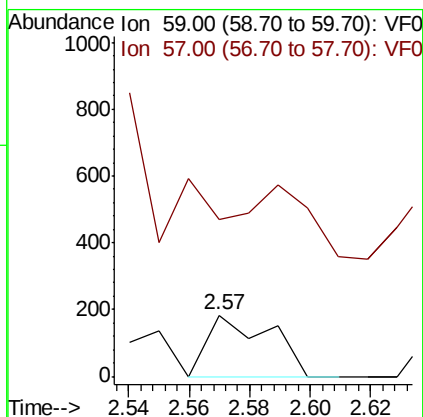
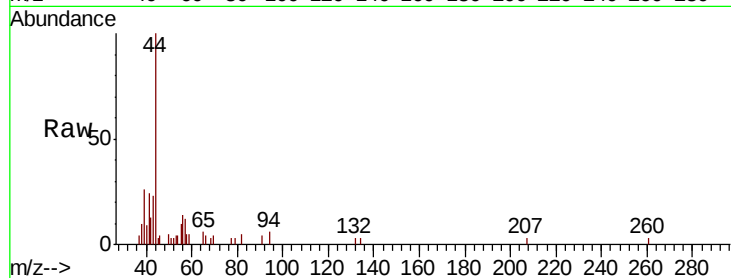




#11
Tert butyl alcohol
Concen: 5.266 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

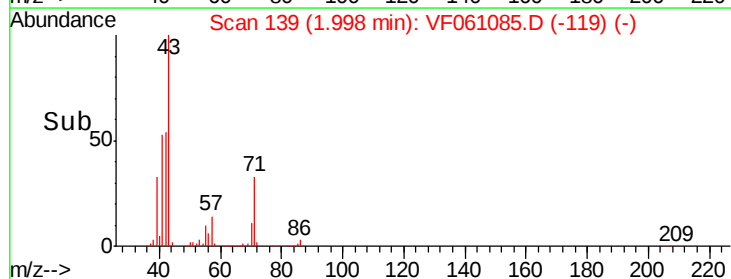
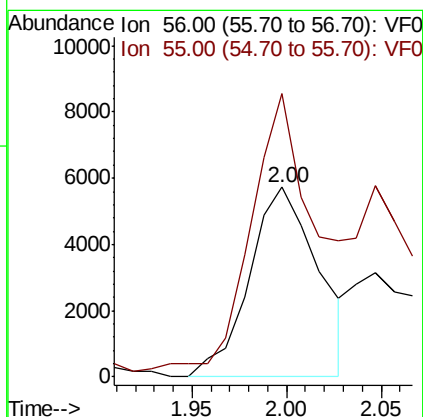
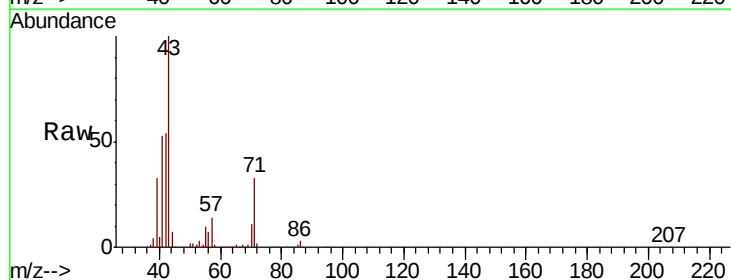
Instrument :
MSVOA_F
ClientSampleId :

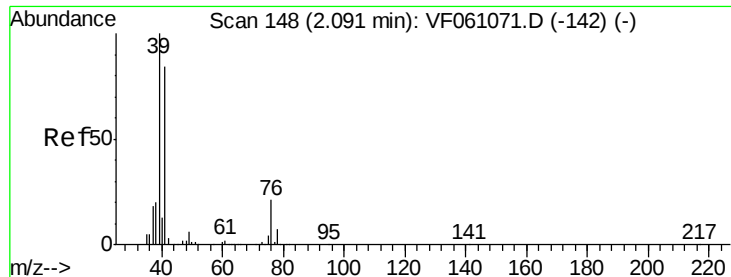
Tot Ion: 59 Resp: 264
Ion Ratio Lower Upper
59 100
57 257.4 11.5 17.3#



#13
Acrolein
Concen: 401.692 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.00 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion: 56 Resp: 14551
Ion Ratio Lower Upper
56 100
55 149.1 70.2 105.2#





#14

Allvl chloride

Concen: 78.793 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.03 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampled :

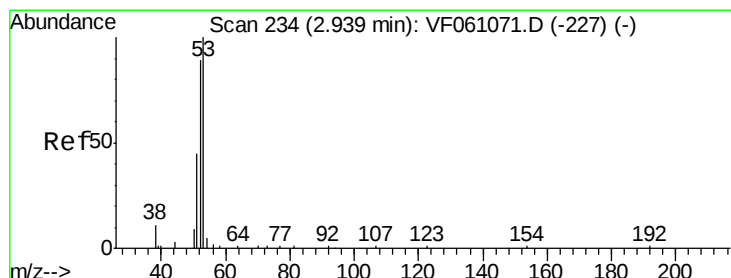
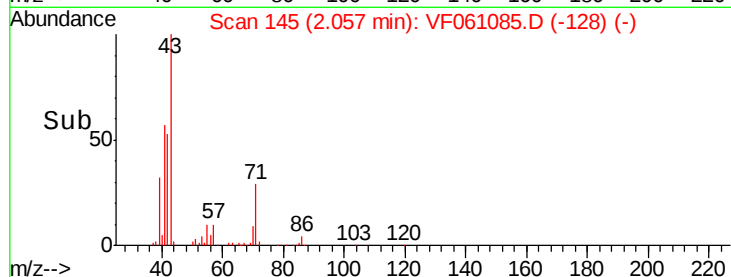
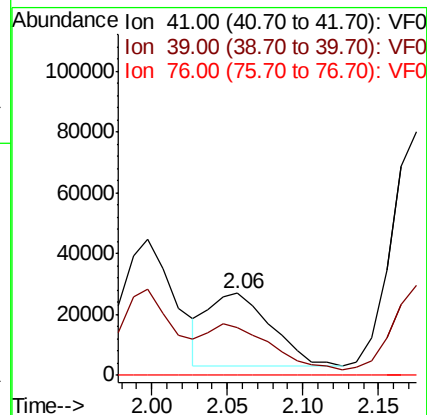
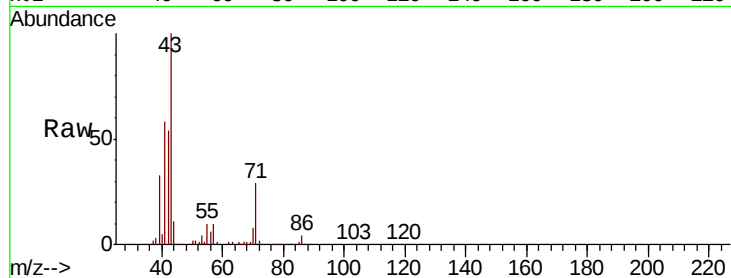
Tot Ion: 41 Resp: 69813

Ion Ratio Lower Upper

41 100

39 57.4 96.4 144.6#

76 0.0 25.4 38.0#



#15

Acrylonitrile

Concen: 364.848 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

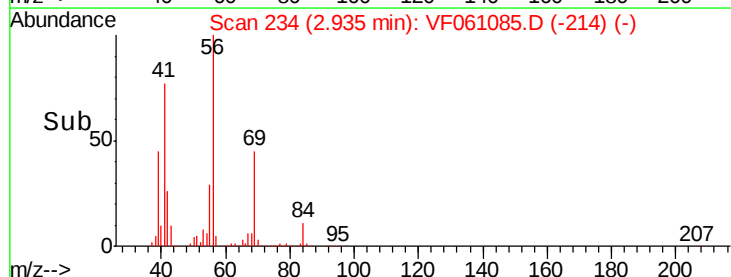
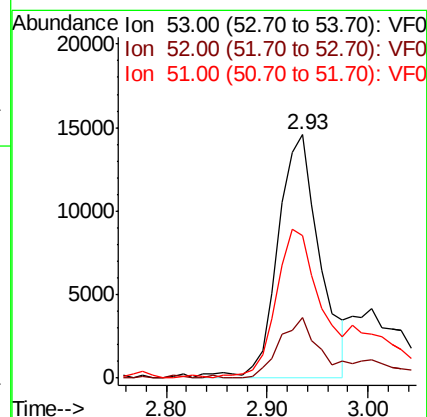
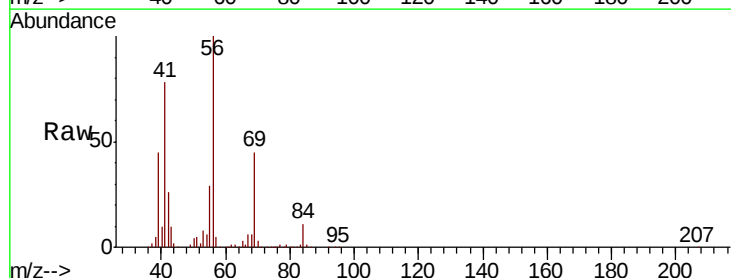
Tgt Ion: 53 Resp: 42294

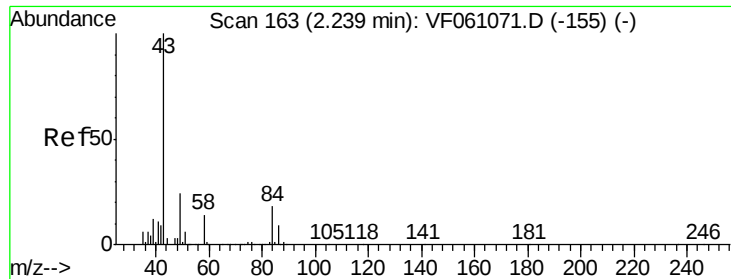
Ion Ratio Lower Upper

53 100

52 25.0 71.3 106.9#

51 58.8 36.8 55.2#

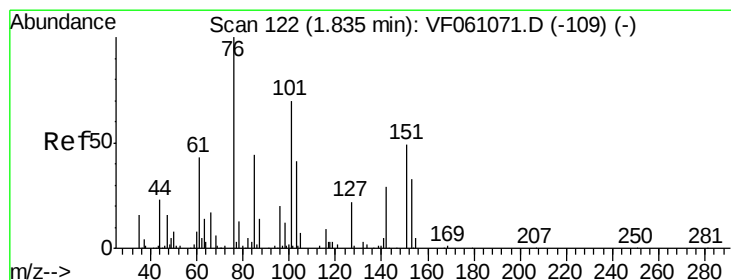
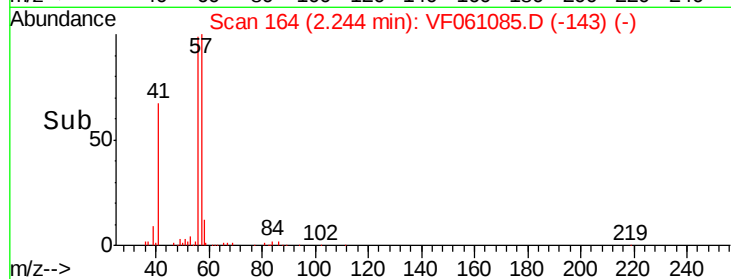
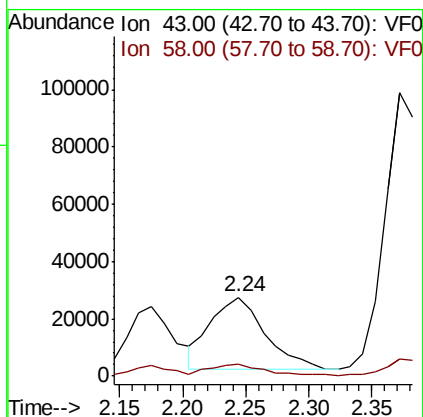
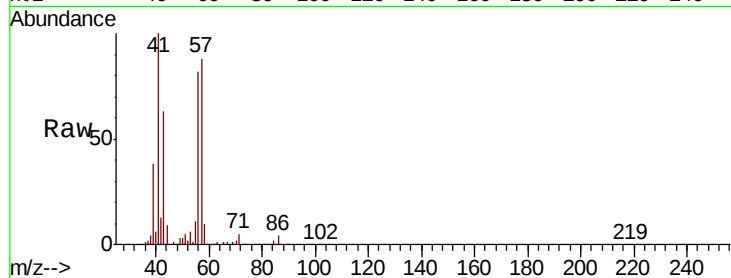




#16
Acetone
Concen: 310.661 ug/l
RT: 2.24 min Scan# 164
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

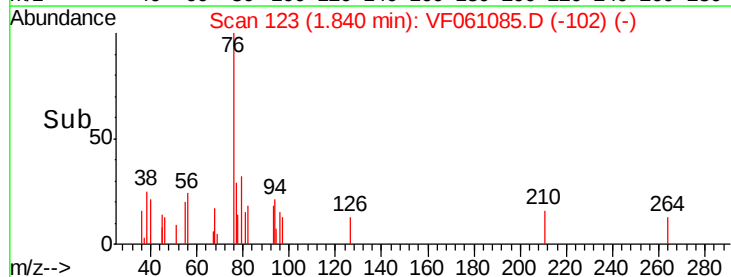
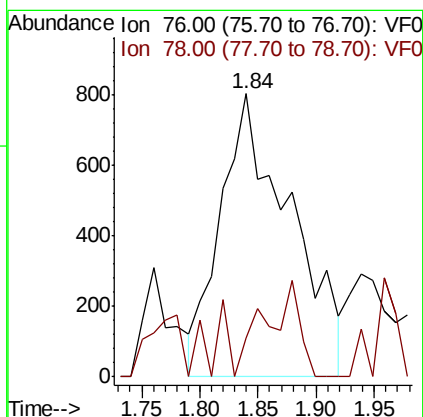
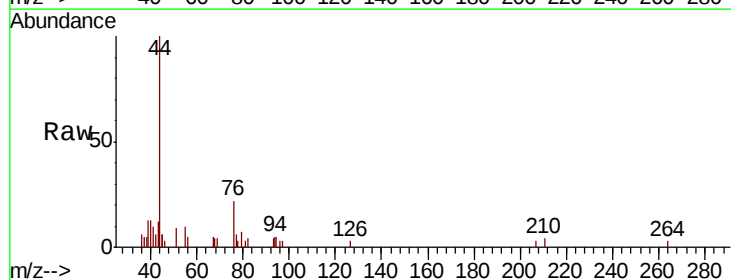
Instrument :
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ClientSampleId :

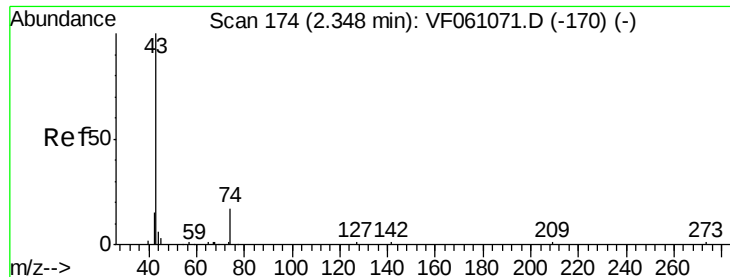
Tot Ion: 43 Resp: 77151
Ion Ratio Lower Upper
43 100
58 15.3 11.1 16.7



#17
Carbon Disulfide
Concen: 1.304 ug/l
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion: 76 Resp: 3354
Ion Ratio Lower Upper
76 100
78 13.6 10.2 15.4

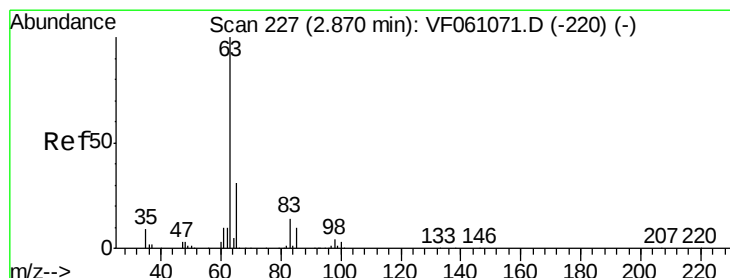
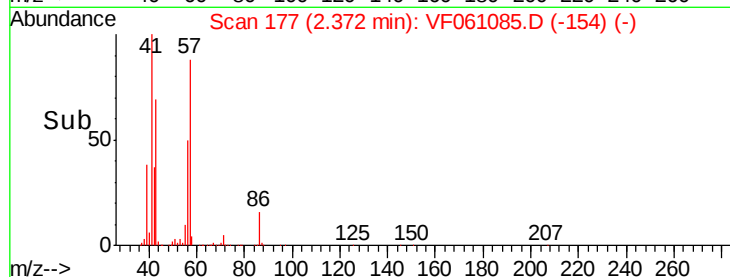
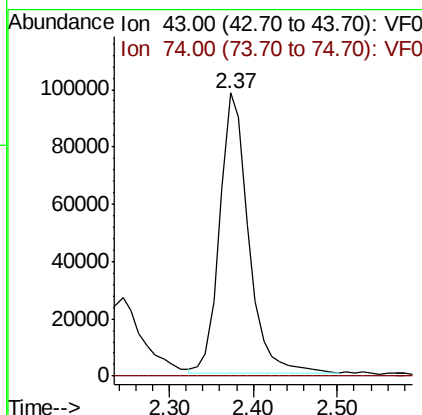
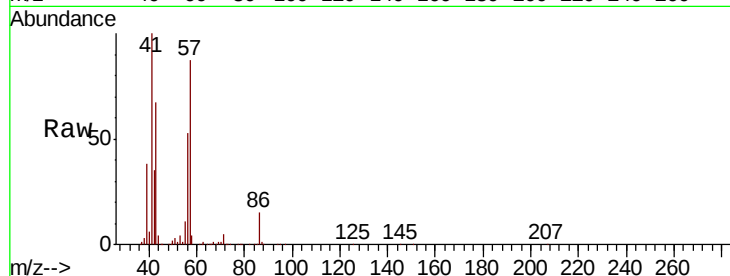




#18
Methvl Acetate
Concen: 449.643 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

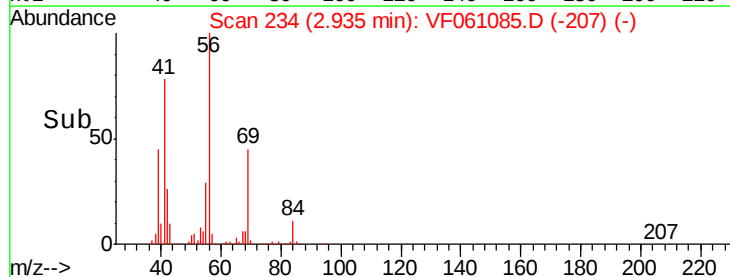
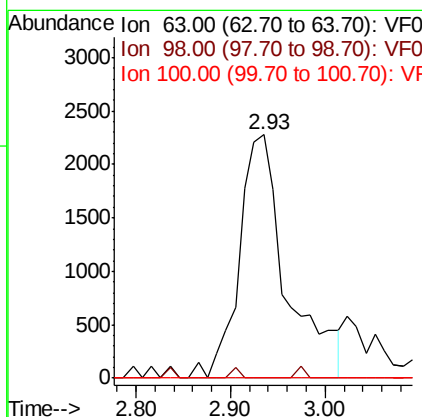
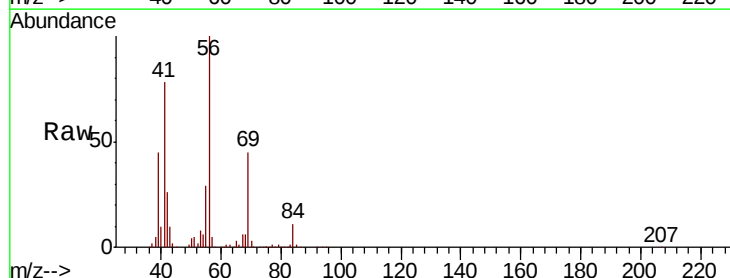
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MSVOA_F
ClientSampleId :

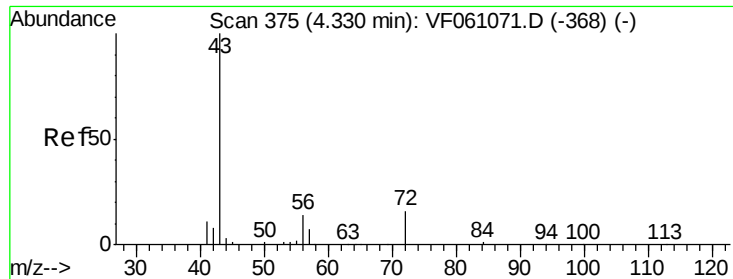
Tot Ion: 43 Resp: 231028
Ion Ratio Lower Upper
43 100
74 0.3 11.0 16.6#



#24
1,1-Dichloroethane
Concen: 4.545 ug/l
RT: 2.93 min Scan# 234
Delta R.T. 0.06 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion: 63 Resp: 7948
Ion Ratio Lower Upper
63 100
98 0.0 2.1 6.5#
100 0.0 1.7 5.1#





#25

2-Butanone

Concen: 75.453 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

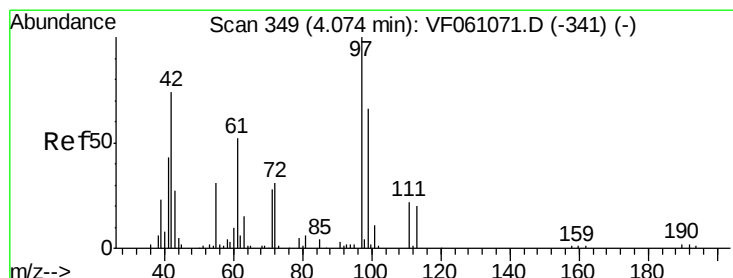
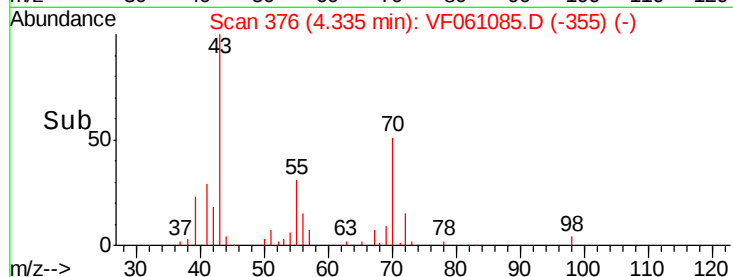
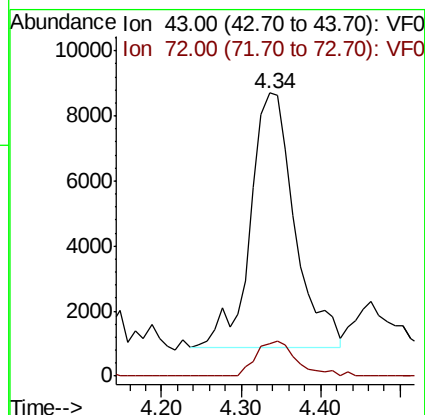
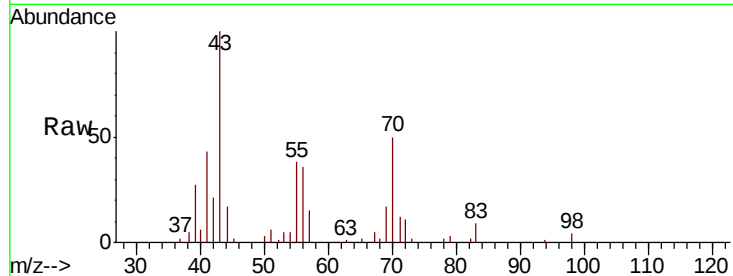
ClientSampleId :

Tot Ion: 43 Resp: 30390

Ion Ratio Lower Upper

43 100

72 11.4 15.6 23.4#



#29

Tetrahydrofuran

Concen: 106.753 ug/l

RT: 4.02 min Scan# 344

Delta R.T. -0.05 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

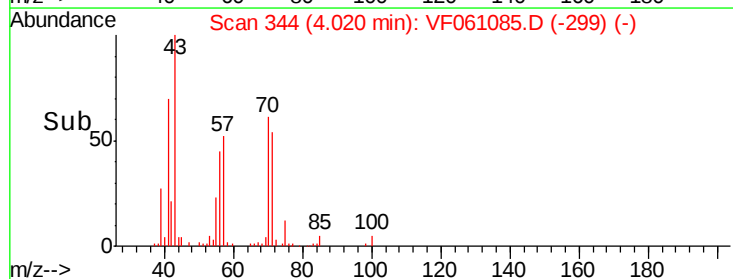
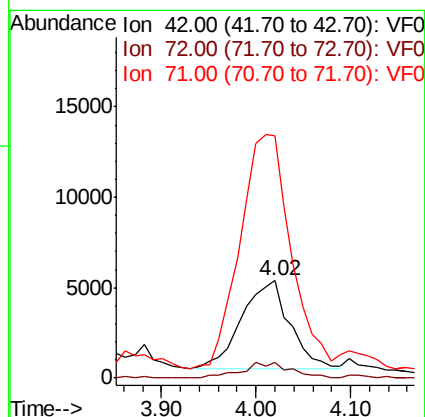
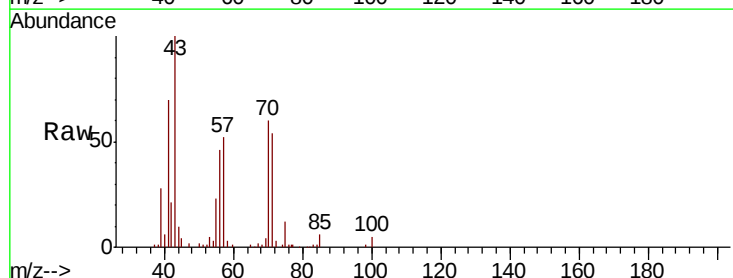
Tgt Ion: 42 Resp: 17500

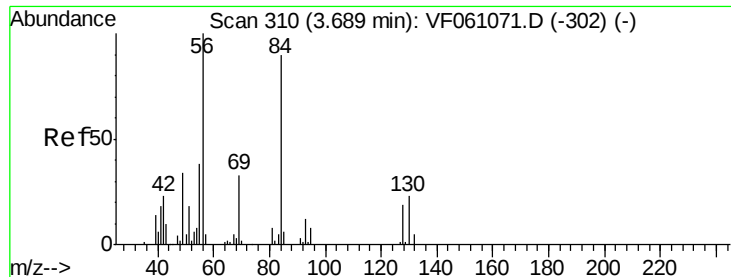
Ion Ratio Lower Upper

42 100

72 17.3 31.8 47.8#

71 277.5 29.7 44.5#

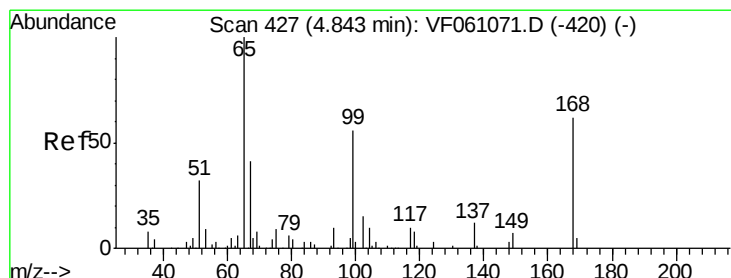
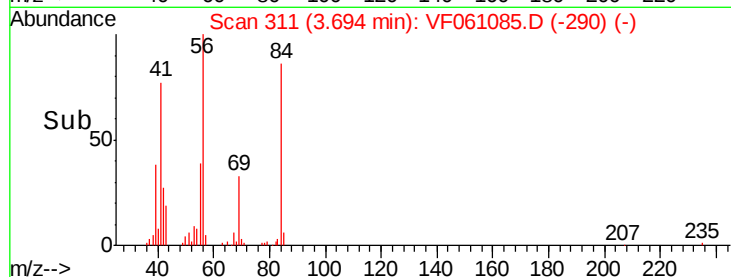
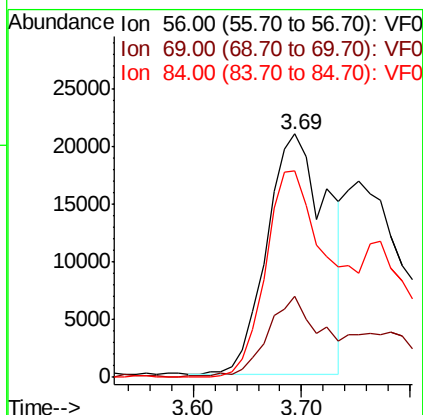
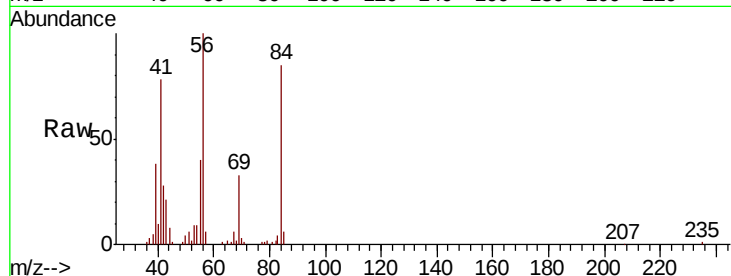




#31
Cyclohexane
Concen: 45.038 ug/l
RT: 3.69 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

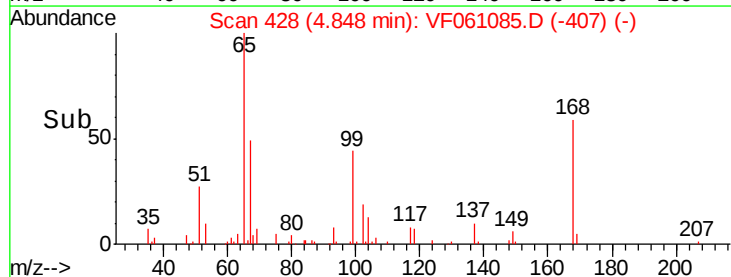
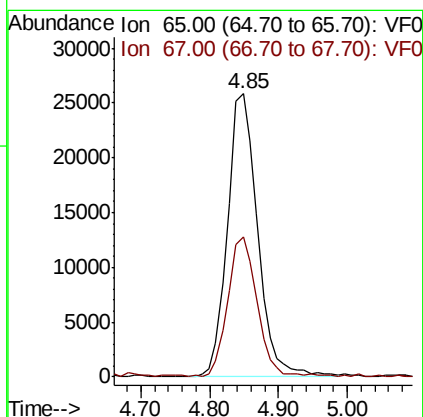
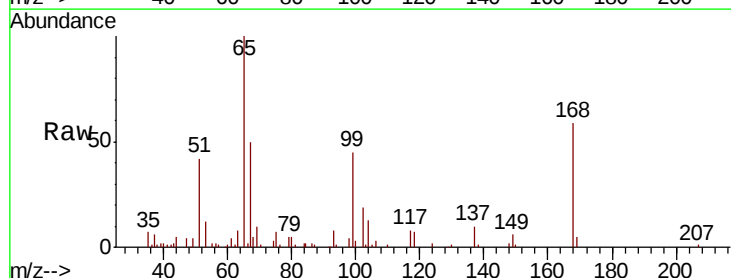
Instrument :
MSVOA_F
ClientSampleId :

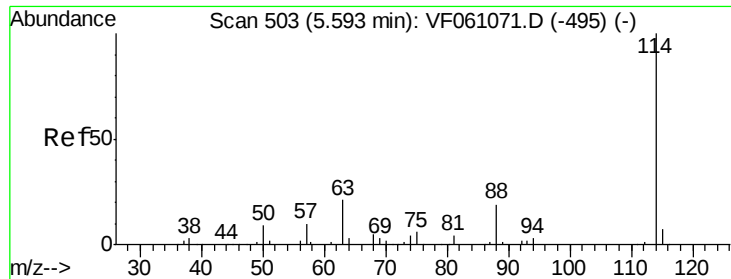
Tot Ion: 56 Resp: 81724
Ion Ratio Lower Upper
56 100
69 33.5 26.0 39.0
84 84.9 71.4 107.2



#33
1,2-Dichloroethane-d4
Concen: 63.294 ug/l
RT: 4.85 min Scan# 428
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion: 65 Resp: 78628
Ion Ratio Lower Upper
65 100
67 49.7 0.0 94.6

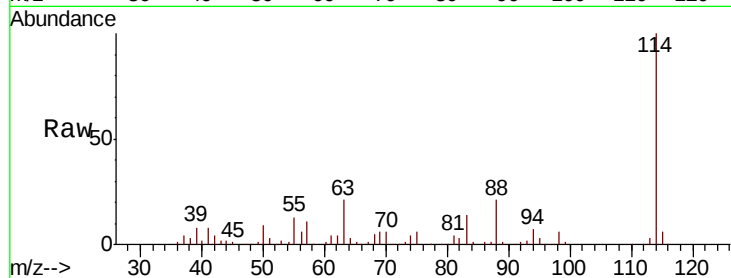




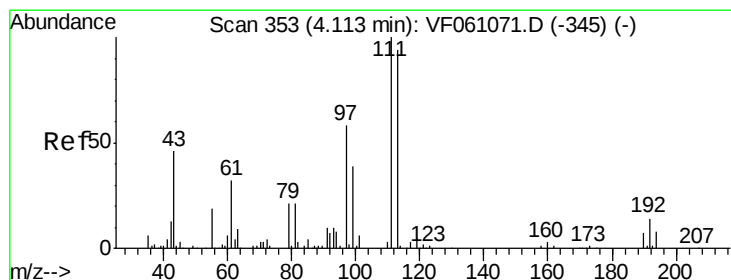
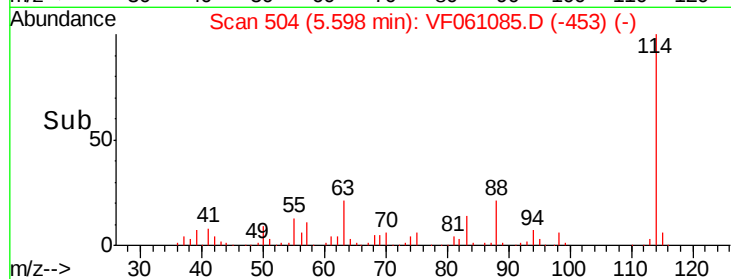
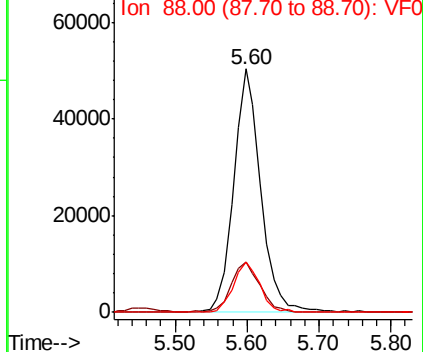
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:114 Resp: 131503
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.6
 88 20.9 0.0 38.0

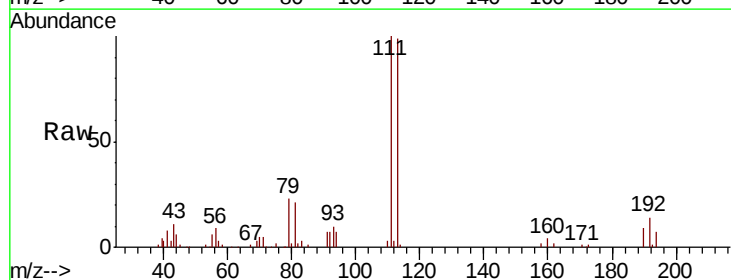


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

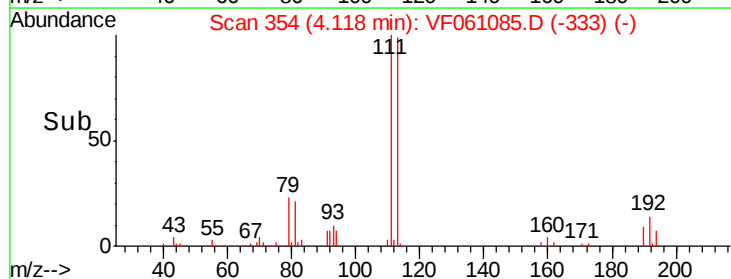
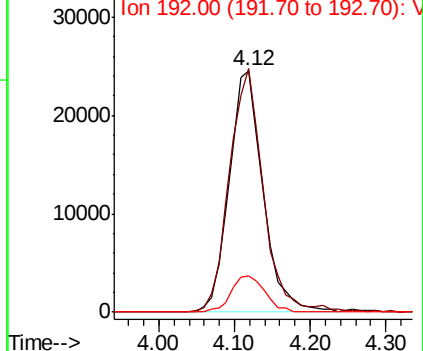


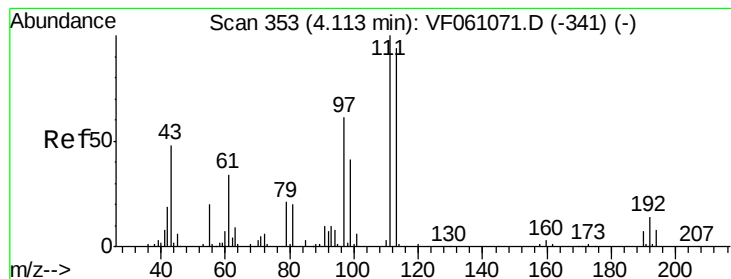
#35
 Dibromofluoromethane
 Concen: 71.906 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Tgt Ion:113 Resp: 75747
 Ion Ratio Lower Upper
 113 100
 111 100.8 85.2 127.8
 192 15.2 12.8 19.2



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





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.01 min Scan# 343

Delta R.T. -0.10 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

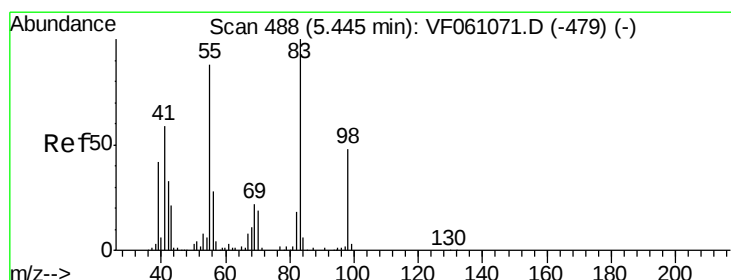
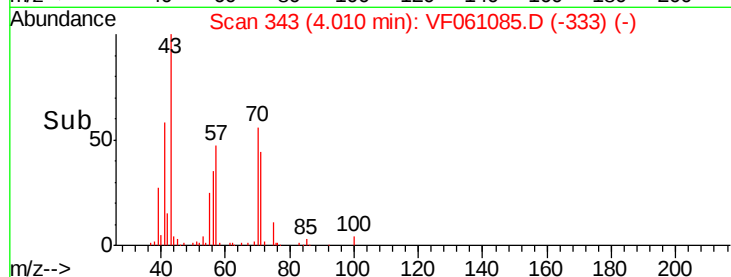
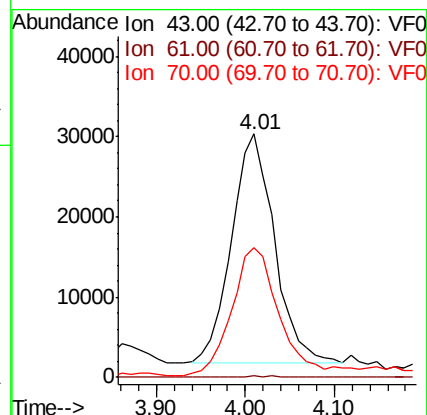
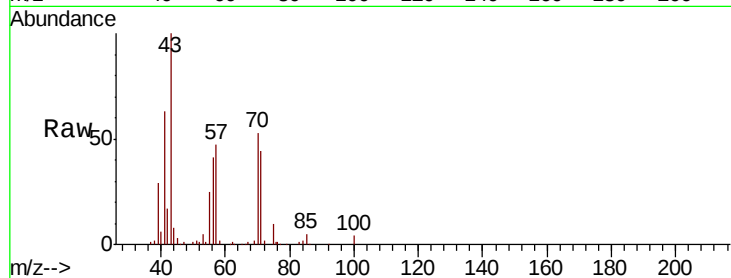
Tot Ion: 43 Resp: 95919

Ion Ratio Lower Upper

43 100

61 0.5 56.6 84.8#

70 53.1 6.3 9.5#



#39

Methylcyclohexane

Concen: 212.913 ug/l

RT: 5.45 min Scan# 489

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

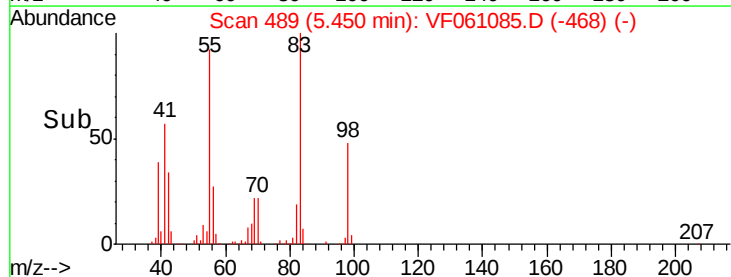
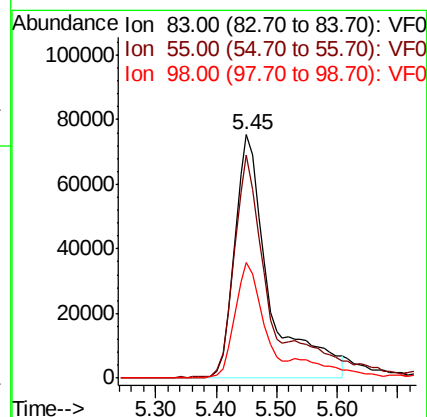
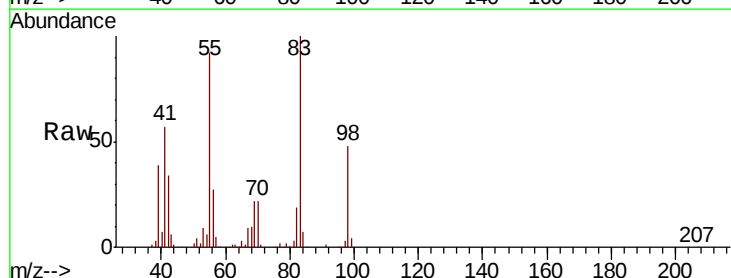
Tgt Ion: 83 Resp: 303198

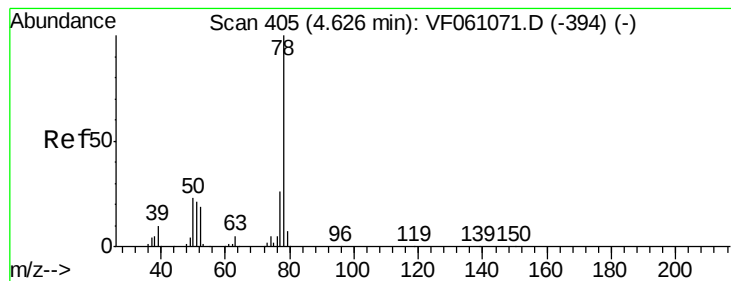
Ion Ratio Lower Upper

83 100

55 91.7 70.6 105.8

98 47.6 38.5 57.7





#40

Benzene

Concen: 16.707 ug/l

RT: 4.63 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

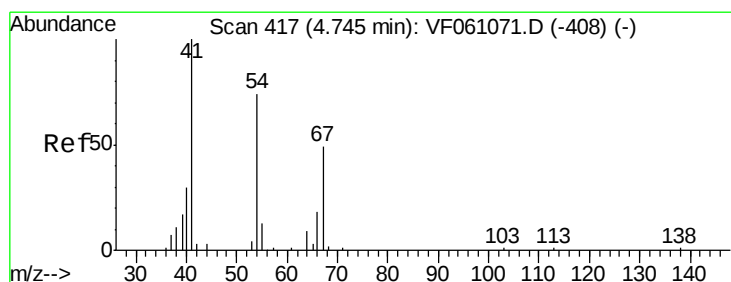
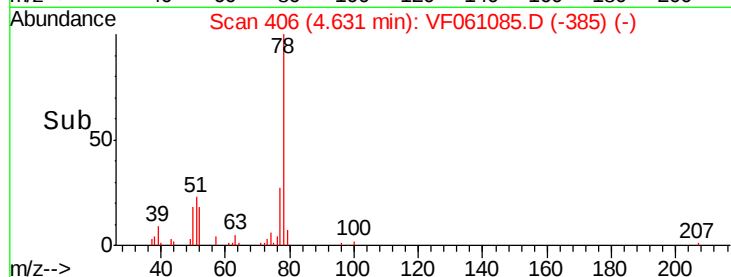
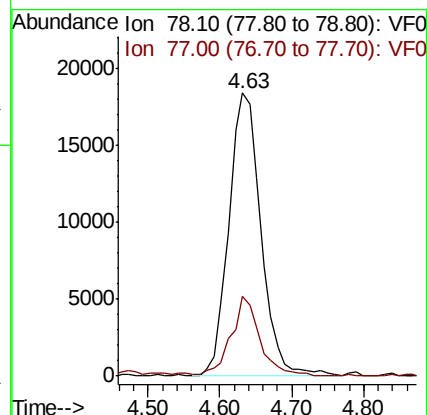
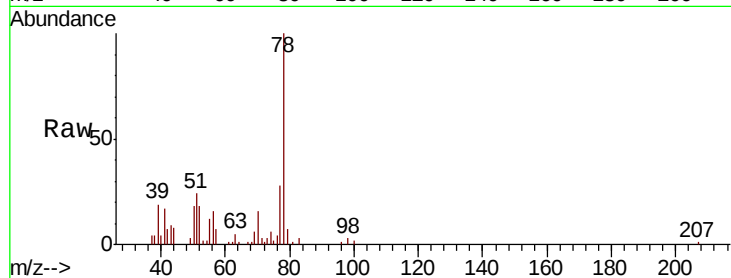
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 78 Resp: 57029

Ion Ratio Lower Upper

78 100

77 28.0 20.7 31.1



#41

Methacrylonitrile

Concen: 133.432 ug/l

RT: 4.67 min Scan# 410

Delta R.T. -0.07 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Tgt Ion: 41 Resp: 44730

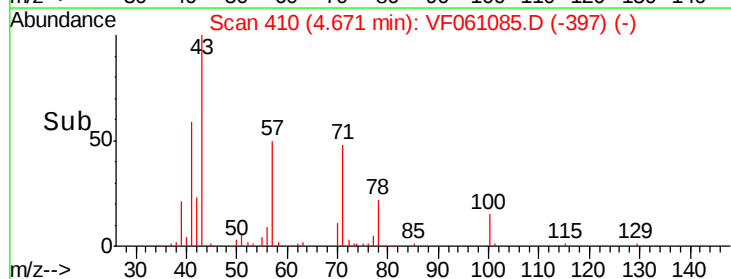
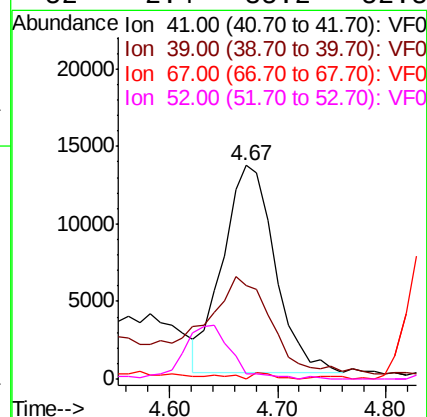
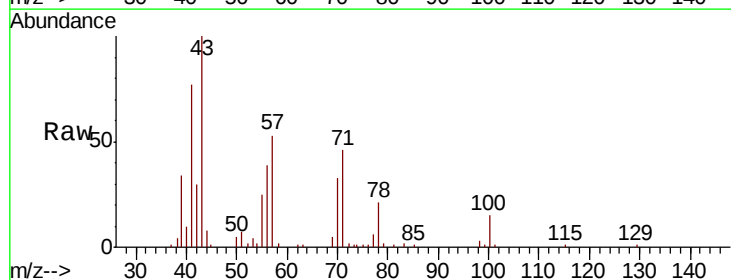
Ion Ratio Lower Upper

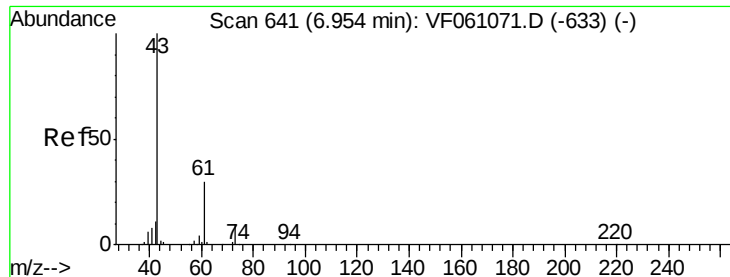
41 100

39 43.7 45.7 68.5#

67 0.0 38.9 58.3#

52 2.4 35.2 52.8#





#43

Isopropyl Acetate

Concen: 7.188 ug/l

RT: 7.02 min Scan# 648

Delta R.T. 0.06 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampled :

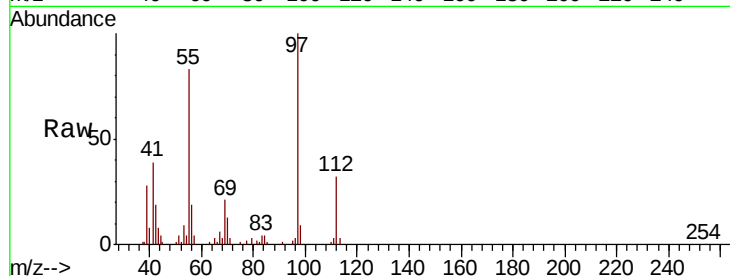
Tot Ion: 43 Resp: 5509

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.8#

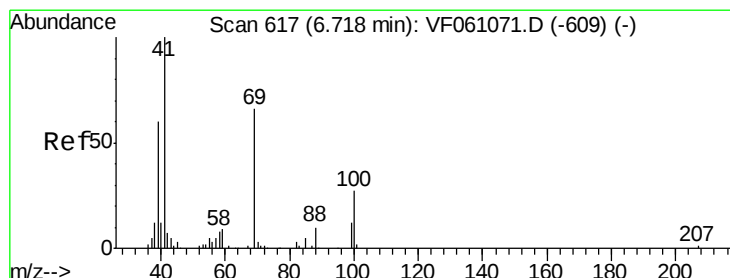
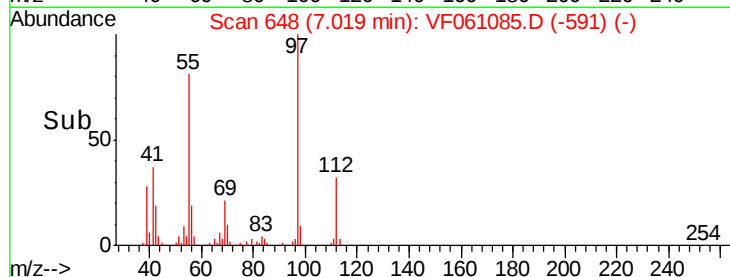
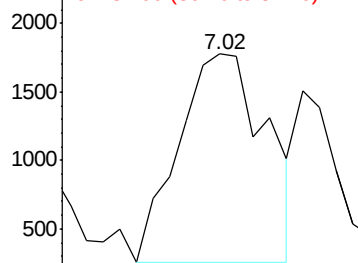
87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 55.861 ug/l

RT: 6.82 min Scan# 628

Delta R.T. 0.10 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

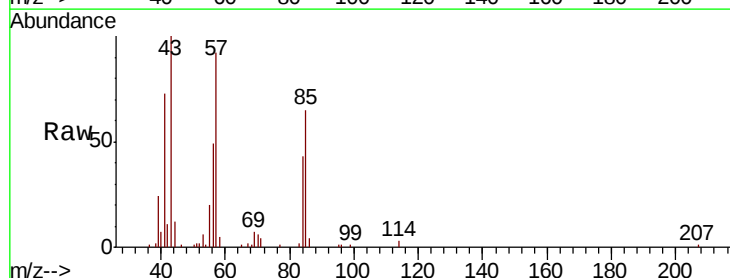
Tgt Ion: 41 Resp: 29889

Ion Ratio Lower Upper

41 100

69 9.9 52.7 79.1#

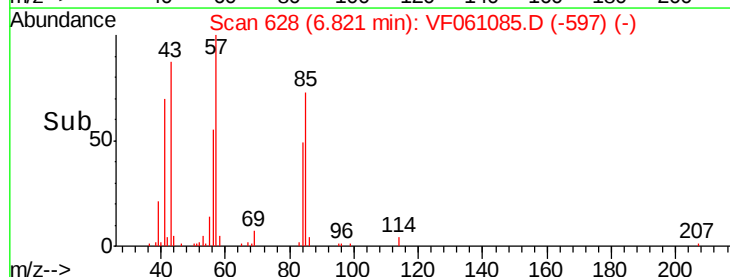
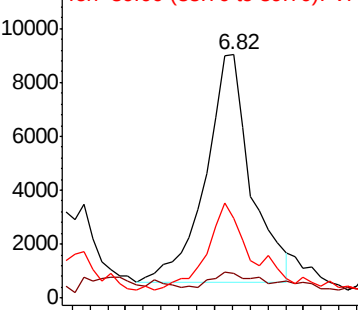
39 32.6 47.8 71.6#

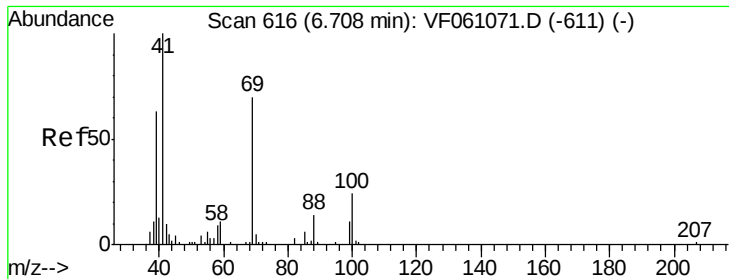


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 17.000 ug/l

RT: 6.86 min Scan# 632

Delta R.T. 0.15 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :
MSVOA_F
ClientSampleId :

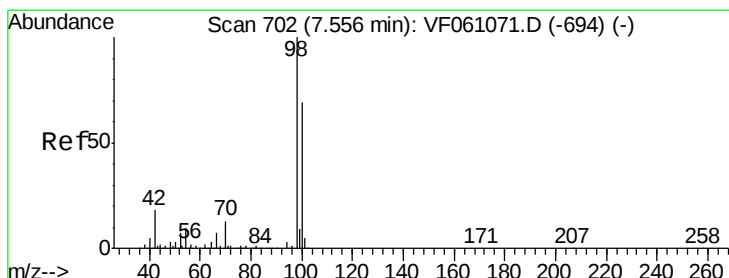
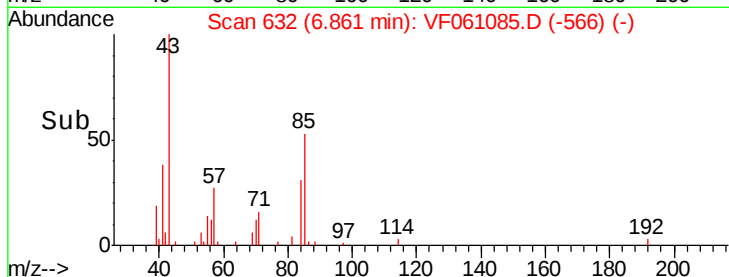
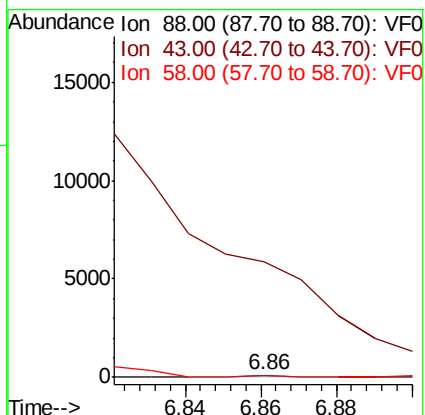
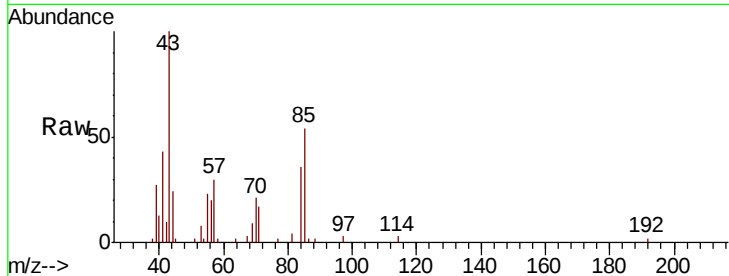
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 5268.8 33.3 49.9#

58 106.3 53.2 79.8#



#50

Toluene-d8

Concen: 34.721 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061085.D

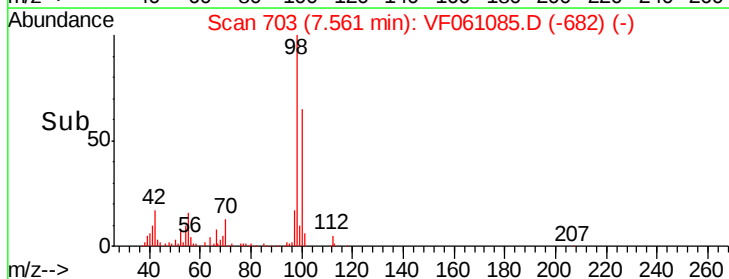
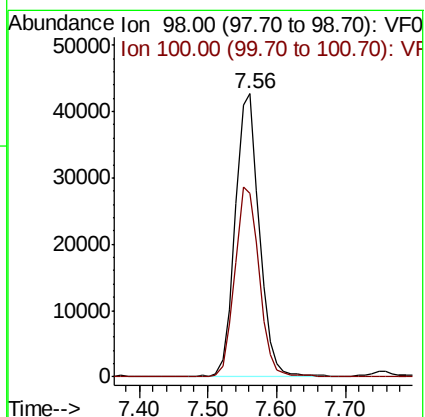
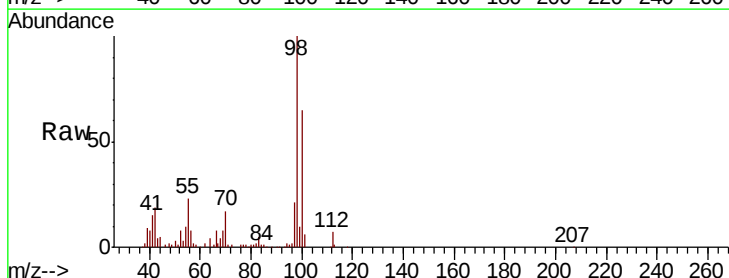
Acq: 19 Dec 2018 15:17

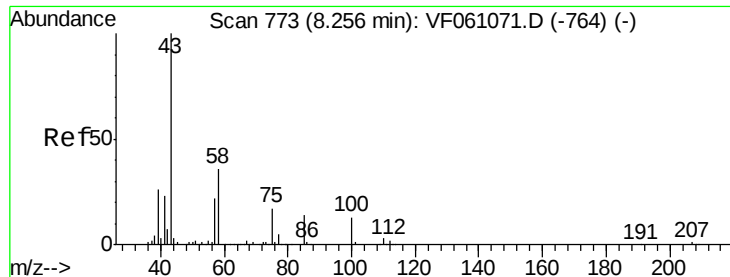
Tgt Ion: 98 Resp: 103651

Ion Ratio Lower Upper

98 100

100 65.0 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 36.829 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.03 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

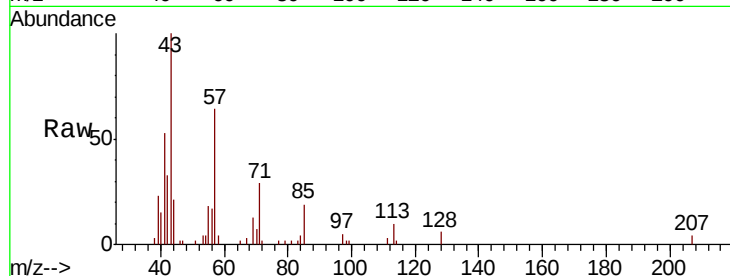
ClientSampleId :

Tot Ion: 43 Resp: 19359

Ion Ratio Lower Upper

43 100

58 4.2 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

6000

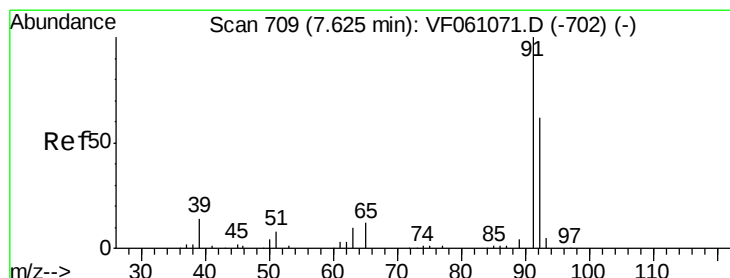
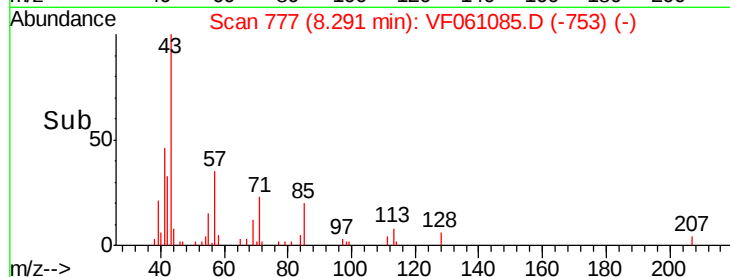
4000

2000

0

8.15 8.20 8.25 8.30 8.35

Time-->



#52

Toluene

Concen: 4.777 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061085.D

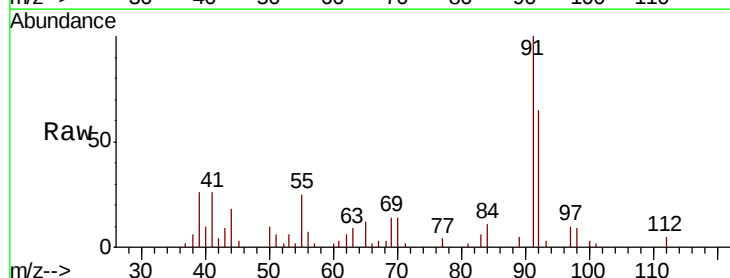
Acq: 19 Dec 2018 15:17

Tgt Ion: 92 Resp: 10794

Ion Ratio Lower Upper

92 100

91 154.7 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.63

6000

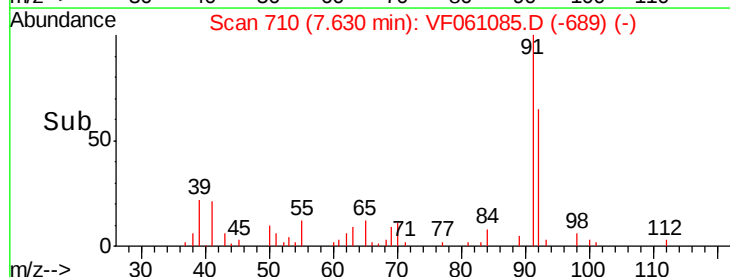
4000

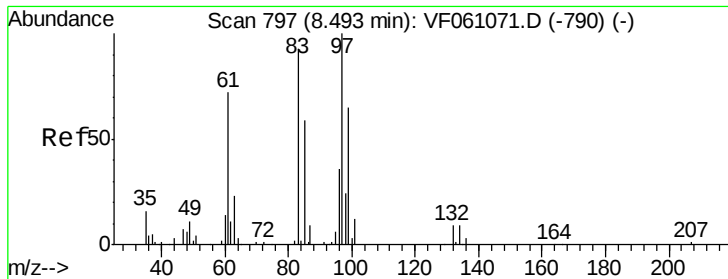
2000

0

7.50 7.60 7.70

Time-->





#55

1,1,2-Trichloroethane

Concen: 8.995 ug/l

RT: 8.38 min Scan# 786

Delta R.T. -0.11 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 6093

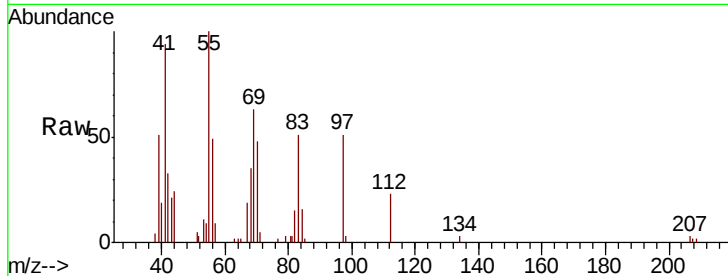
Ion Ratio Lower Upper

97 100

83 100.1 75.0 112.4

85 4.4 47.5 71.3#

99 0.0 51.9 77.9#

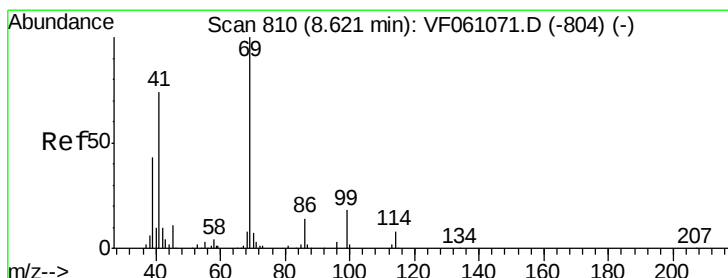
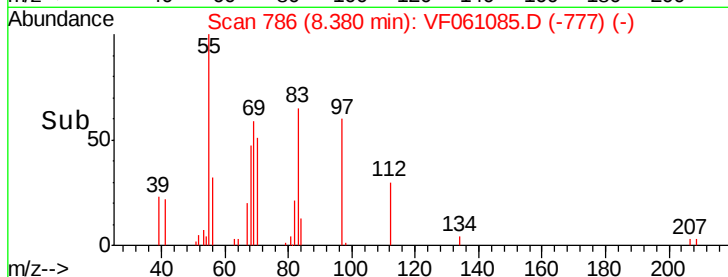
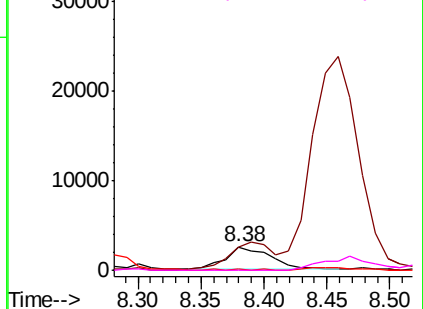


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 32.647 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

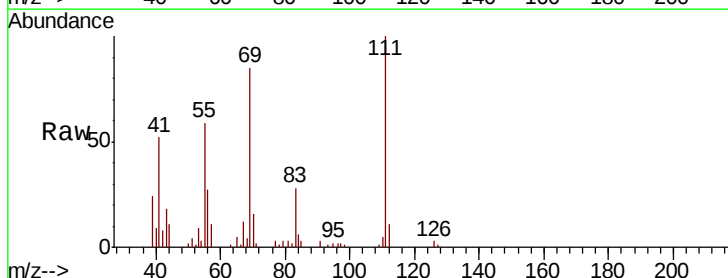
Tgt Ion: 69 Resp: 23930

Ion Ratio Lower Upper

69 100

41 60.6 59.7 89.5

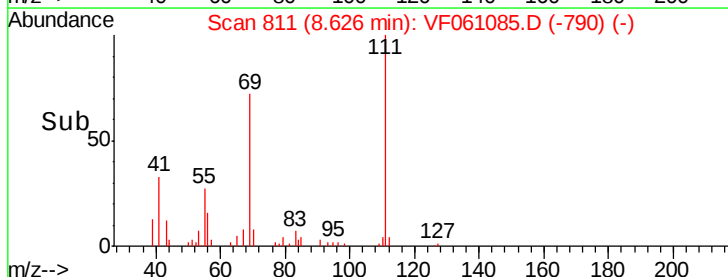
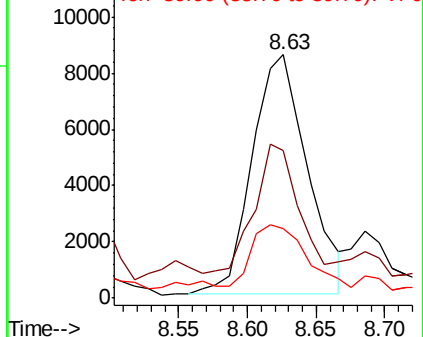
39 28.4 35.0 52.6#

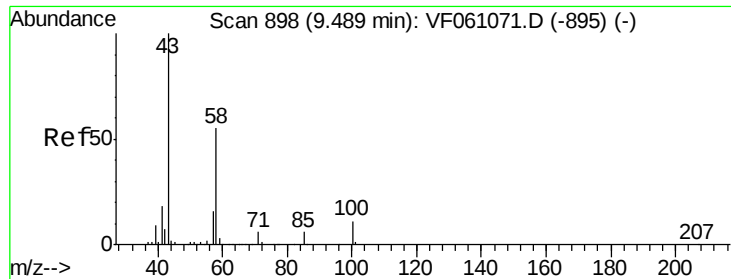


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

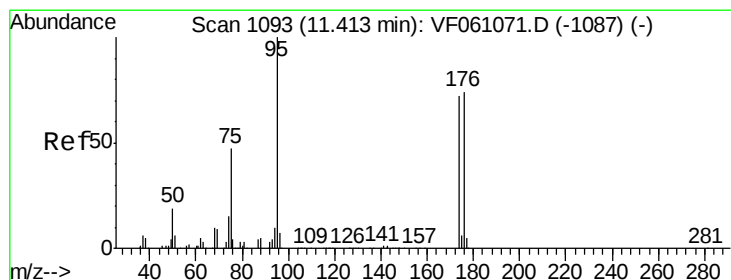
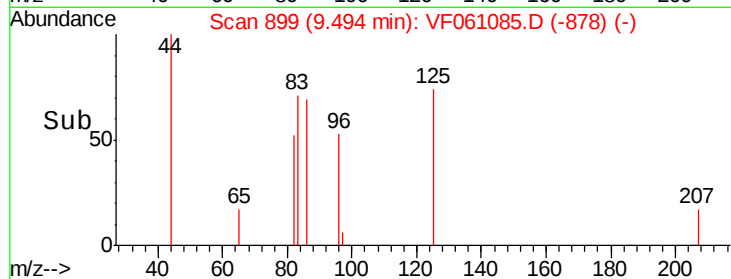
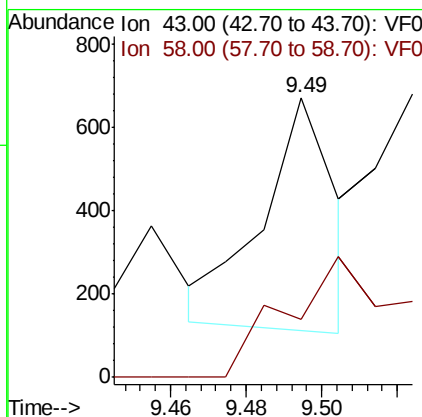
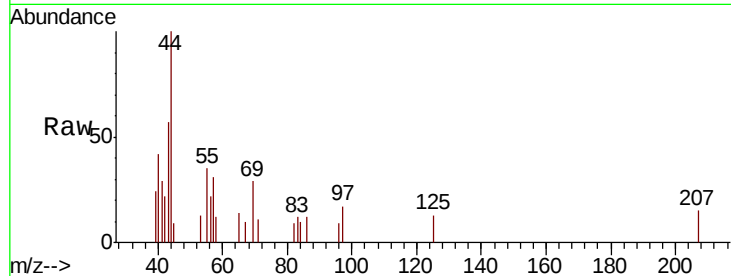




#59
2-Hexanone
Concen: 1.960 ug/l
RT: 9.49 min Scan# 899
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

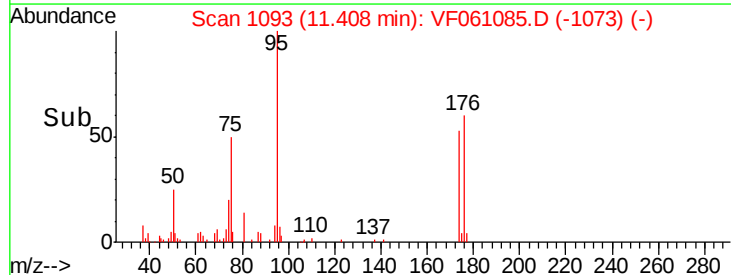
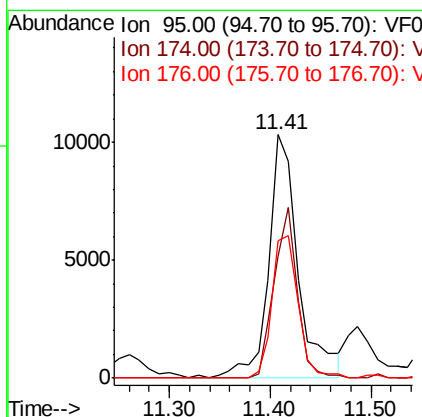
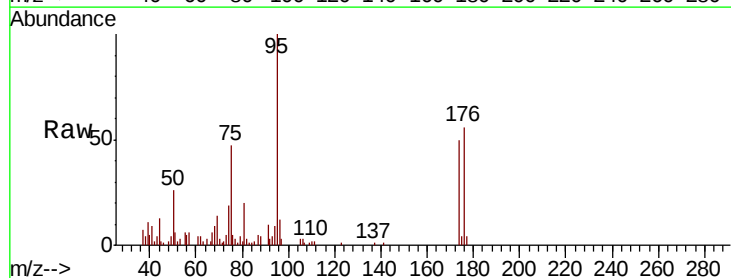
Instrument :
MSVOA_F
ClientSampled :

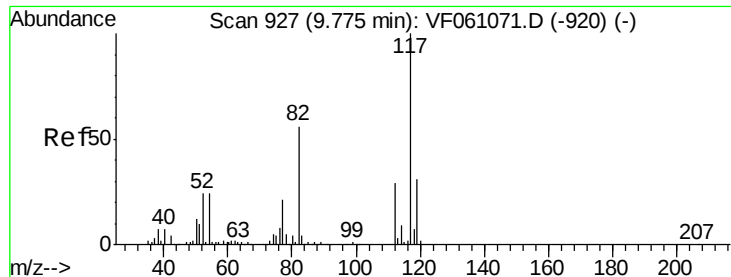
Tot Ion: 43 Resp: 745
Ion Ratio Lower Upper
43 100
58 20.4 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 15.353 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion: 95 Resp: 21130
Ion Ratio Lower Upper
95 100
174 50.4 0.0 143.8
176 56.3 0.0 147.6

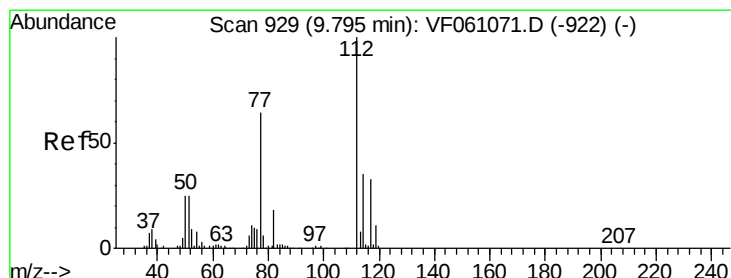
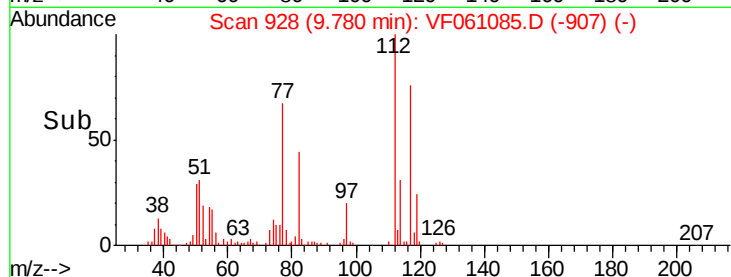
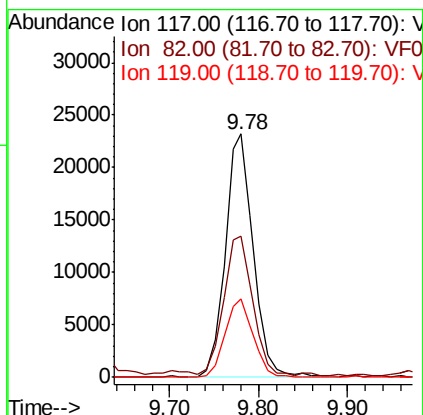
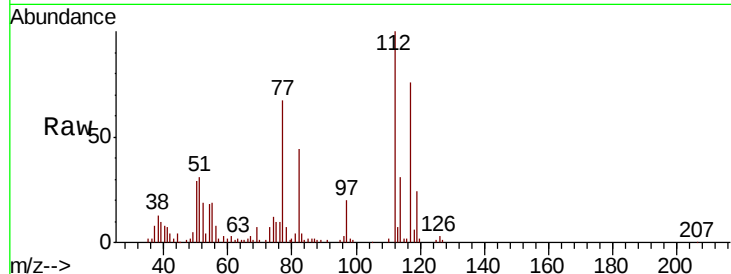




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

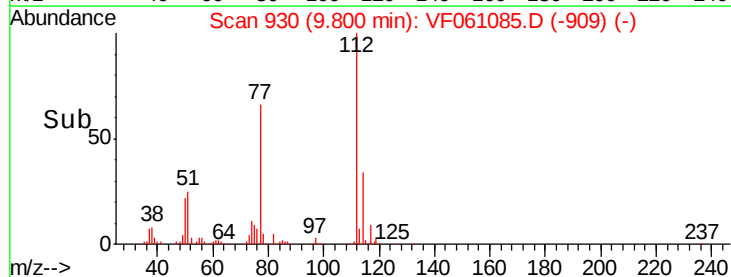
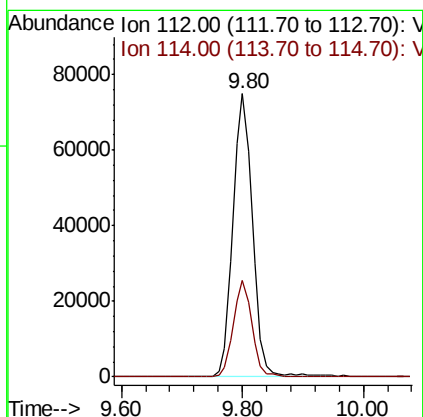
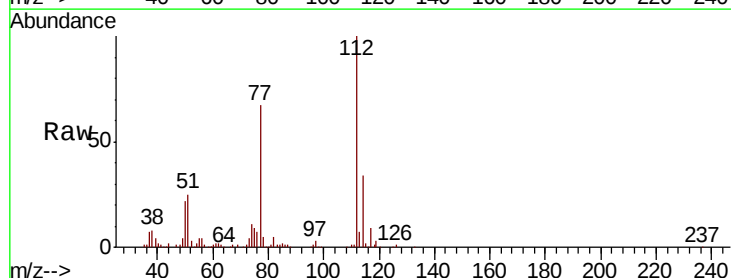
Instrument :
MSVOA_F
ClientSampleId :

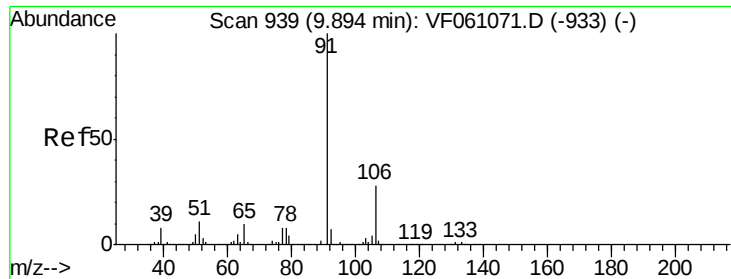
Tot Ion	Ratio	Lower	Upper
117	100		
82	58.0	45.0	67.4
119	32.2	24.8	37.2



#65
Chlorobenzene
Concen: 160.094 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.9	27.8	41.6

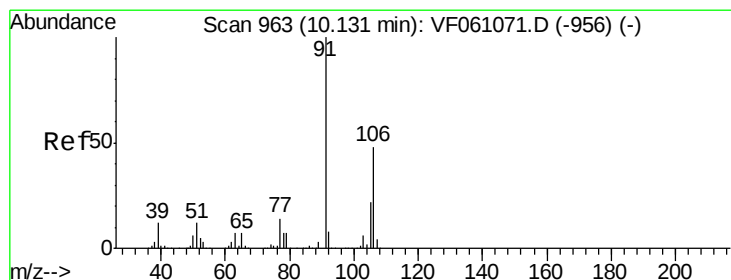
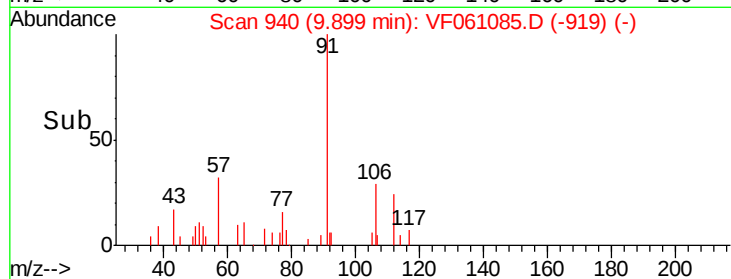
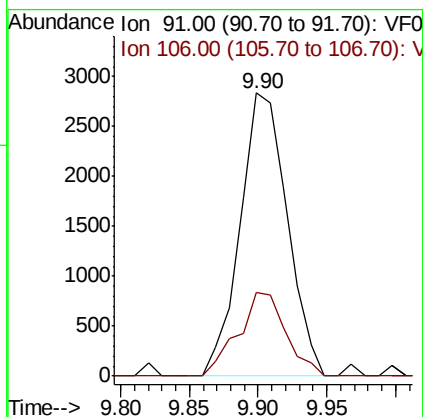
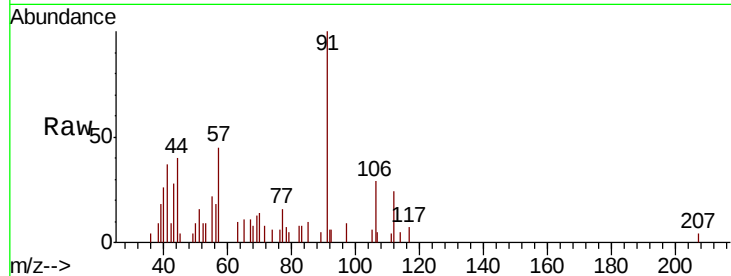




#67
Ethyl Benzene
Concen: 3.513 ug/l
RT: 9.90 min Scan# 940
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

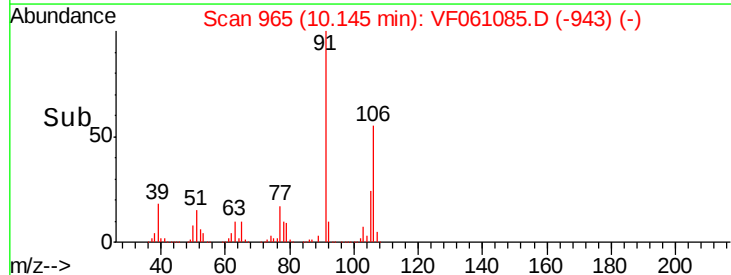
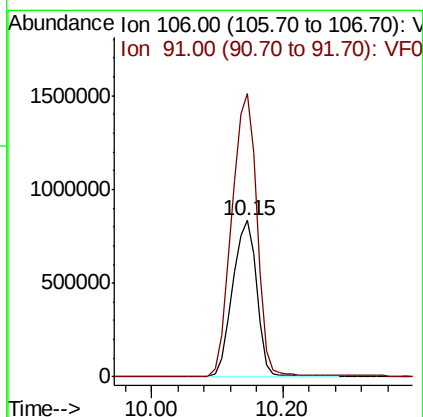
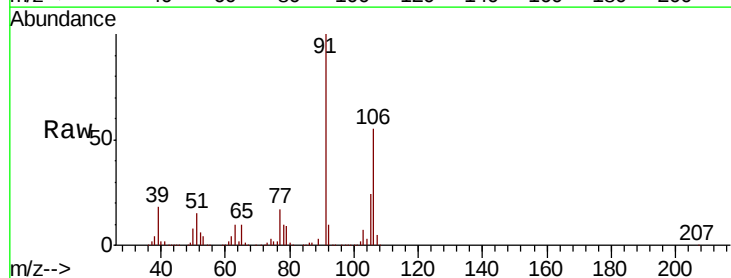
Instrument :
MSVOA_F
ClientSampleId :

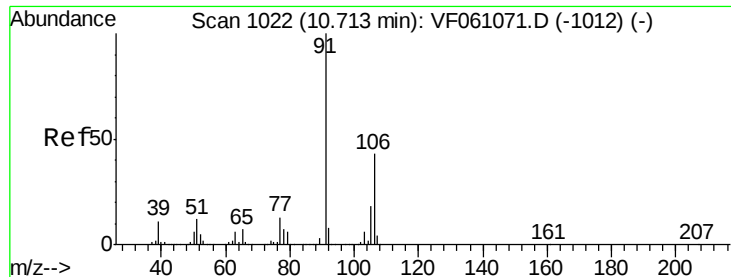
Tot Ion: 91 Resp: 6776
Ion Ratio Lower Upper
91 100
106 29.4 22.5 33.7



#68
m/p-Xylenes
Concen: 3207.143 ug/l
RT: 10.15 min Scan# 965
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion: 106 Resp: 2177290
Ion Ratio Lower Upper
106 100
91 181.0 168.2 252.2

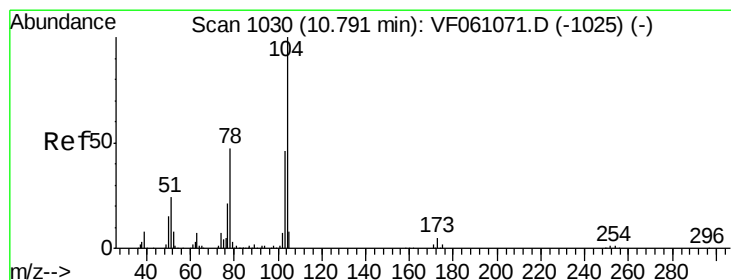
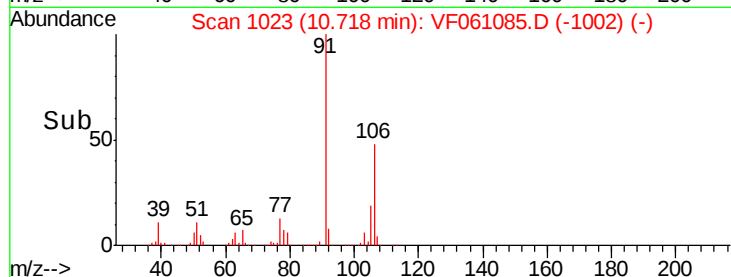
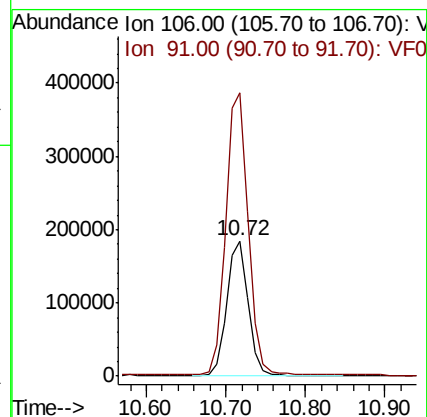
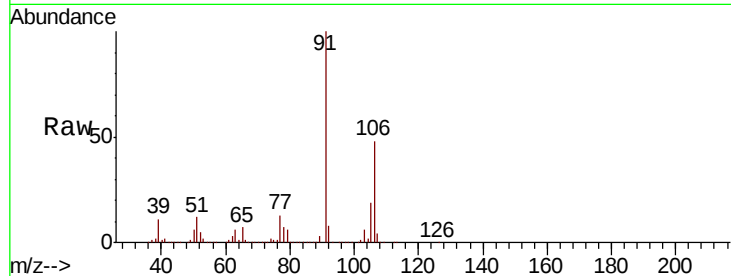




#69
o-Xylene
Concen: 464.895 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

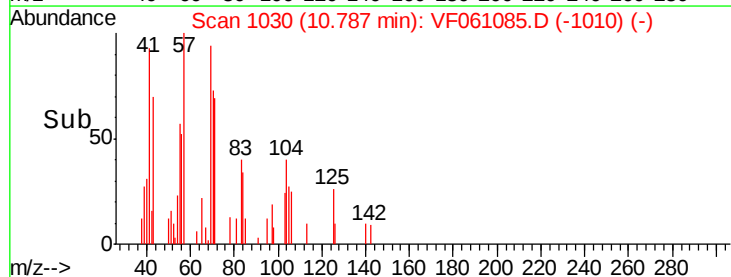
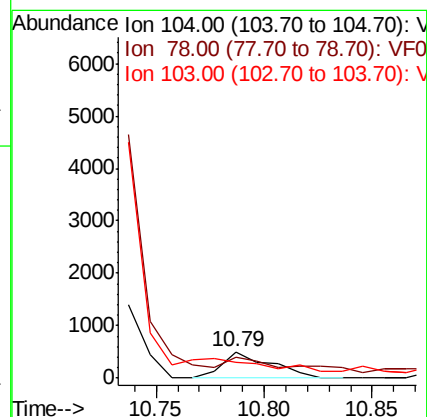
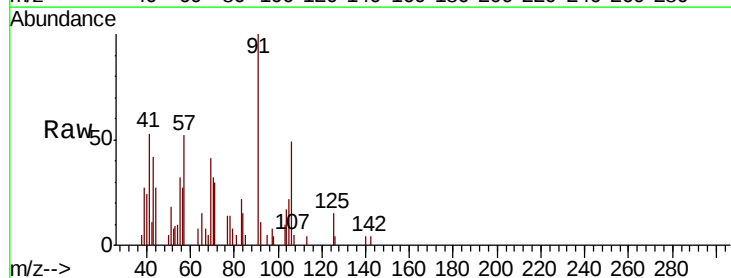
Instrument :
MSVOA_F
ClientSampled :

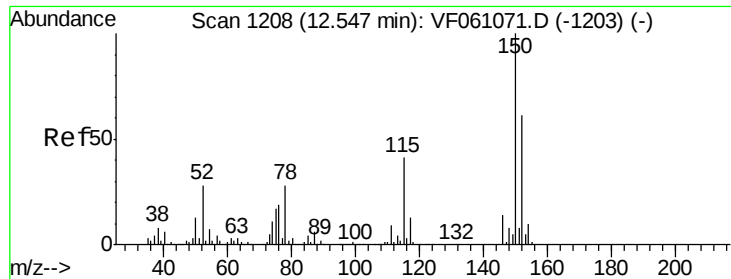
Tot Ion:106 Resp: 350036
Ion Ratio Lower Upper
106 100
91 209.4 115.9 347.7



#70
Styrene
Concen: Below Cal
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion:104 Resp: 787
Ion Ratio Lower Upper
104 100
78 80.0 38.4 57.6#
103 59.5 37.0 55.6#



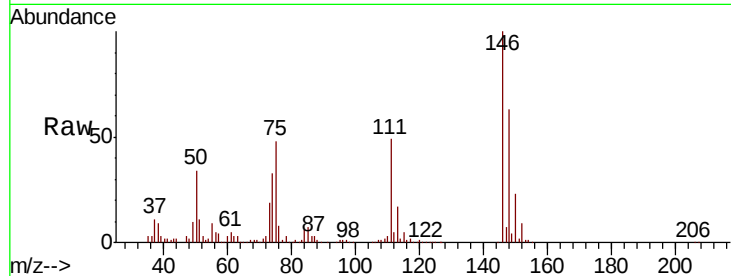


#72

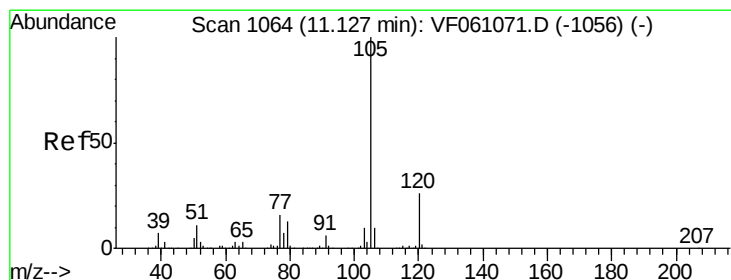
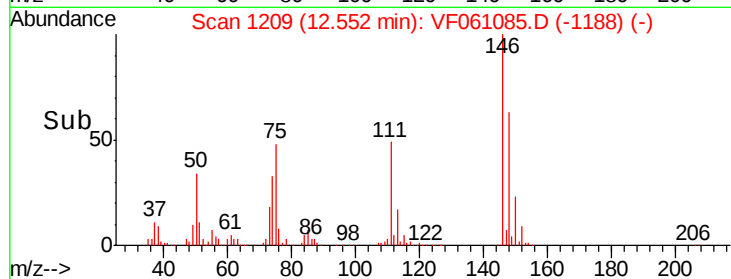
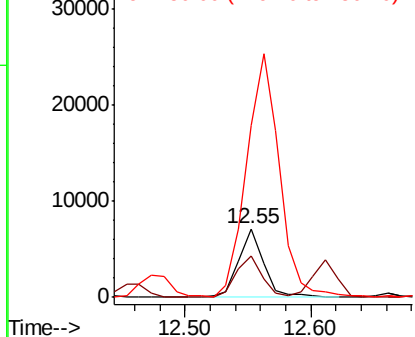
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 9955
Ion Ratio Lower Upper
152 100
115 59.6 33.3 99.9
150 250.6 0.0 328.2



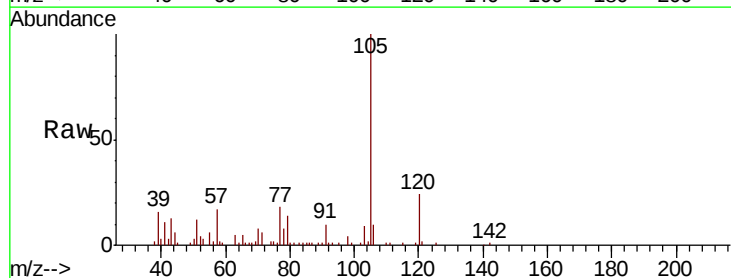
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



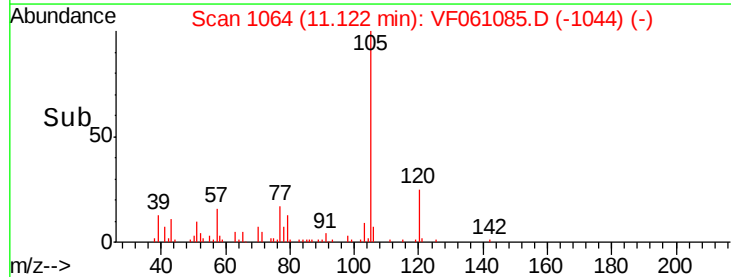
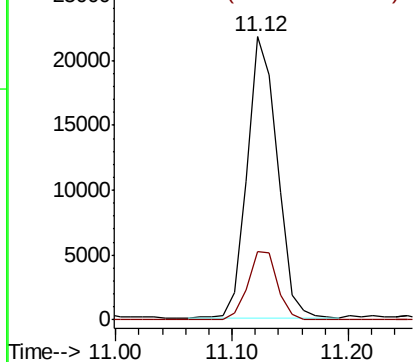
#73

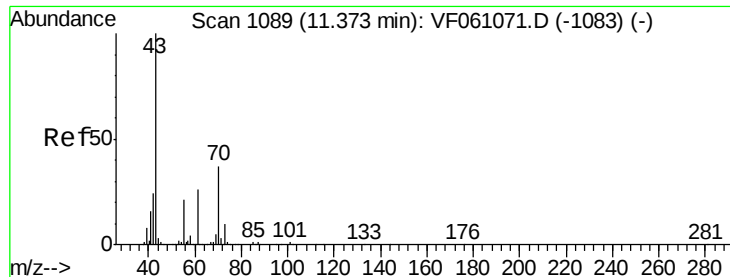
Isopropylbenzene
Concen: 45.656 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.00 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion:105 Resp: 39167
Ion Ratio Lower Upper
105 100
120 24.2 13.0 39.0



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





#74

N-amvl acetate

Concen: 2.882 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.02 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 549

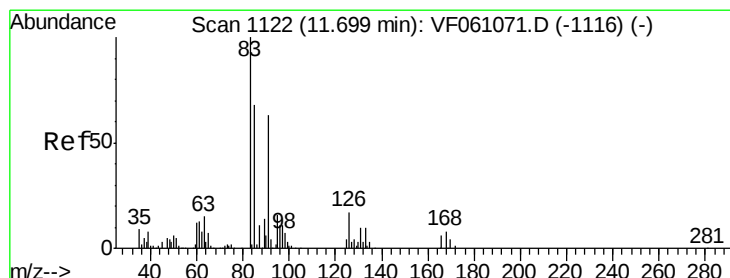
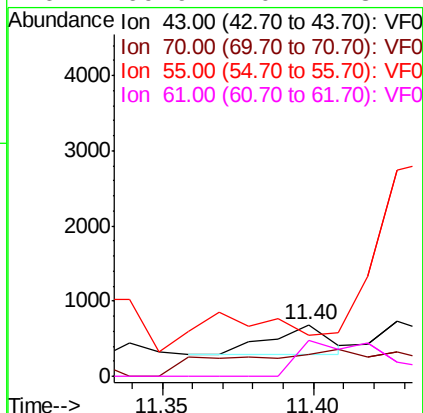
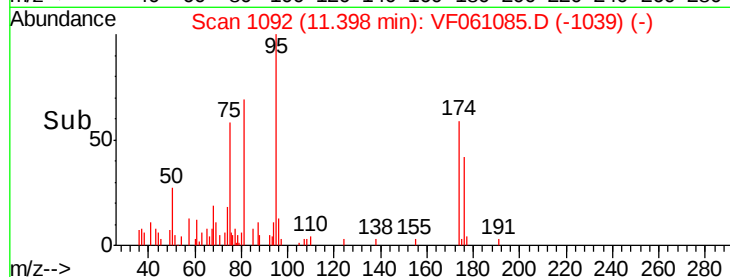
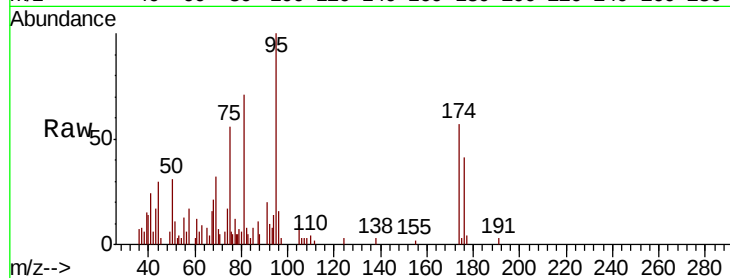
Ion Ratio Lower Upper

43 100

70 43.1 29.2 43.8

55 81.0 16.5 24.7#

61 69.9 20.7 31.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 12.727 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

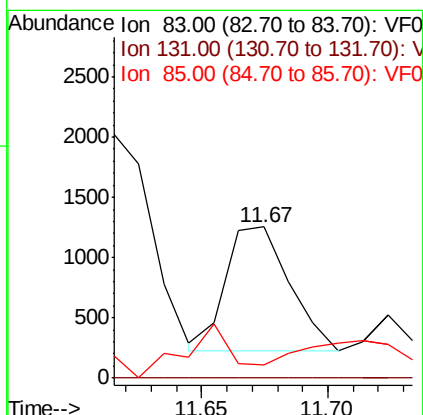
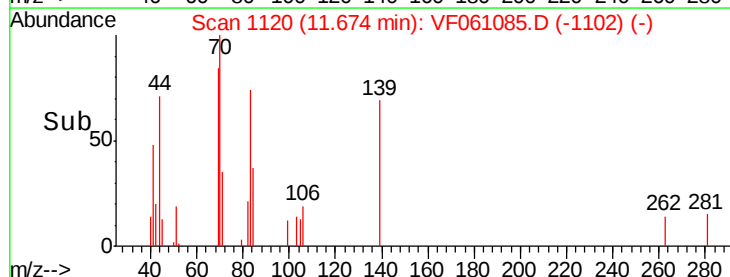
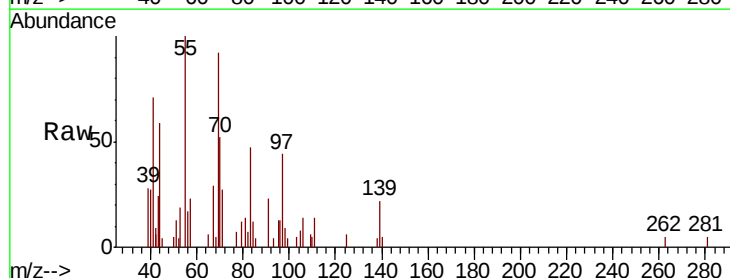
Tgt Ion: 83 Resp: 1812

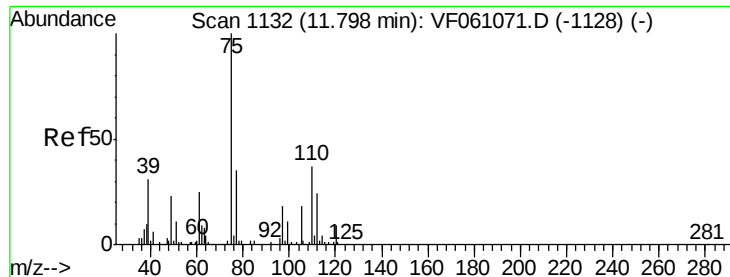
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 8.8 33.9 101.6#





#76

1,2,3-Trichloropropane

Concen: 14.666 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.02 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

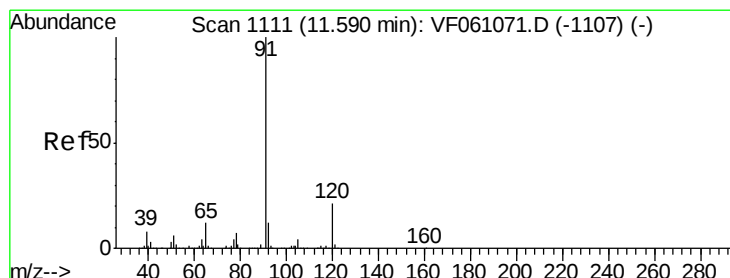
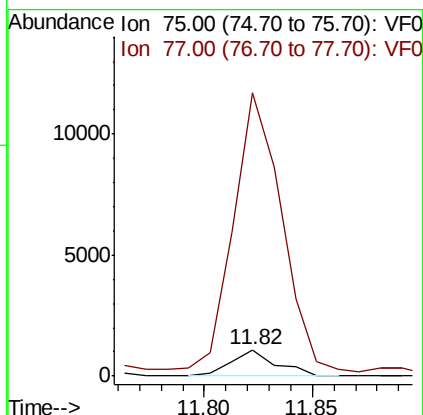
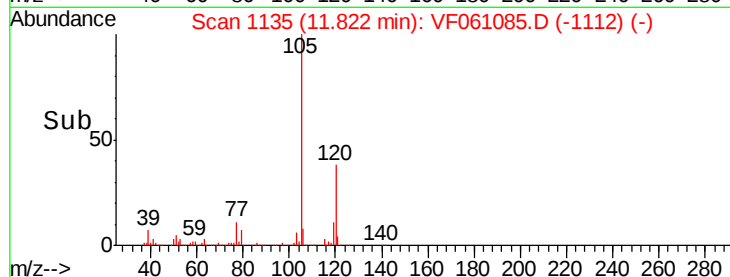
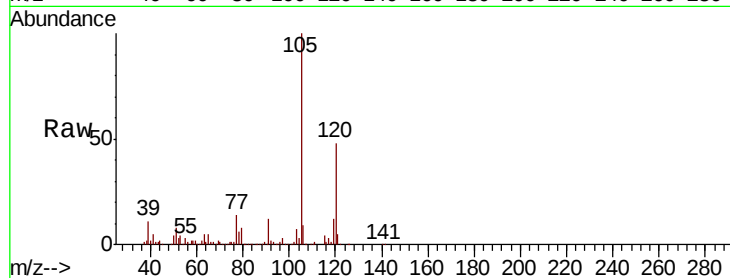
ClientSampleId :

Tot Ion: 75 Resp: 1554

Ion Ratio Lower Upper

75 100

77 1065.1 17.6 52.9#



#78

n-propylbenzene

Concen: 79.062 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061085.D

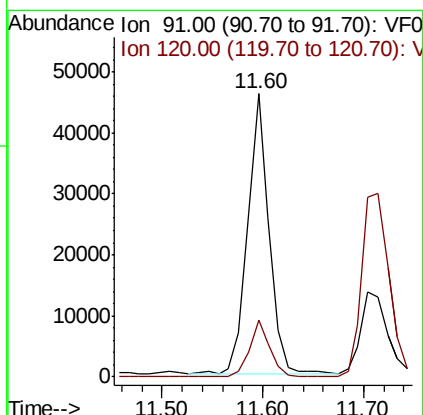
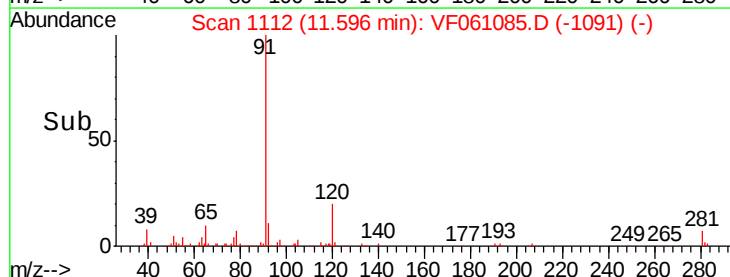
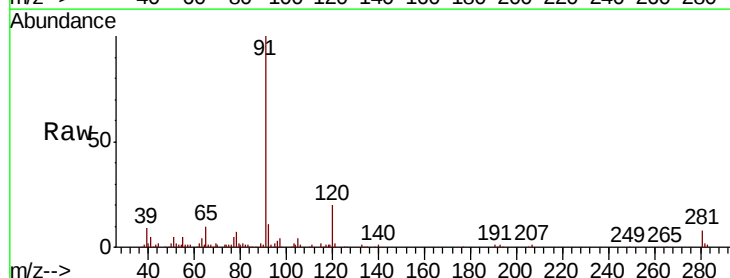
Acq: 19 Dec 2018 15:17

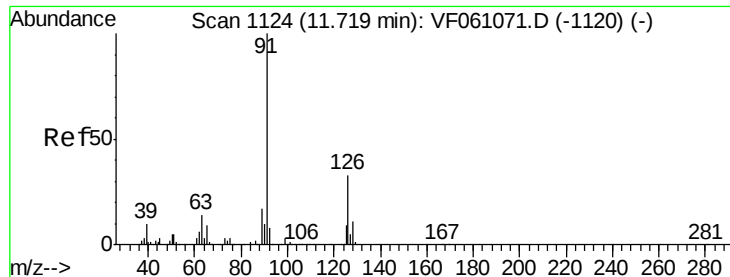
Tgt Ion: 91 Resp: 68712

Ion Ratio Lower Upper

91 100

120 19.9 10.4 31.2

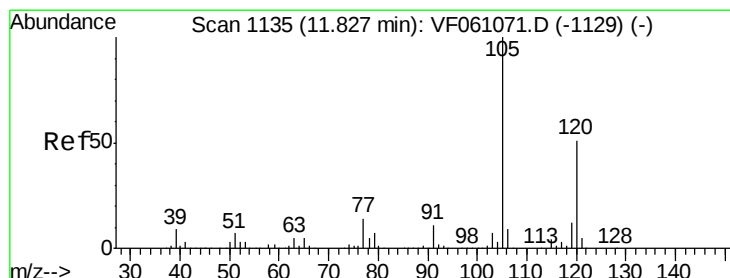
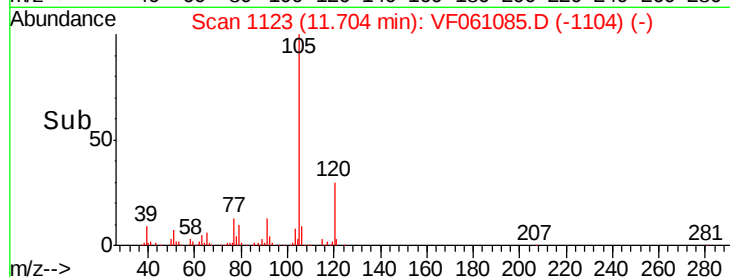
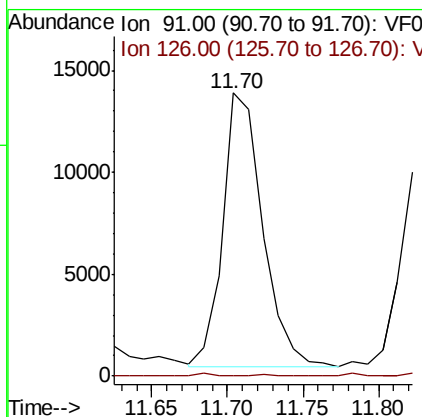
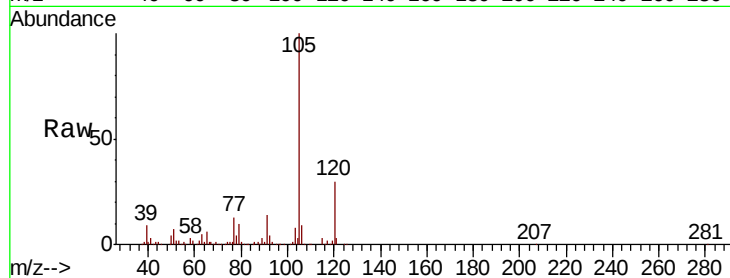




#79
 2-Chlorotoluene
 Concen: 41.762 ug/l
 RT: 11.70 min Scan# 1123
 Delta R.T. -0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

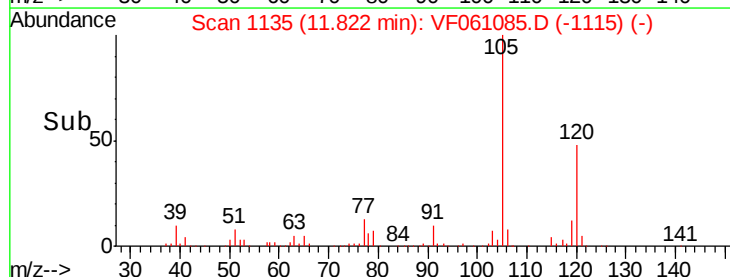
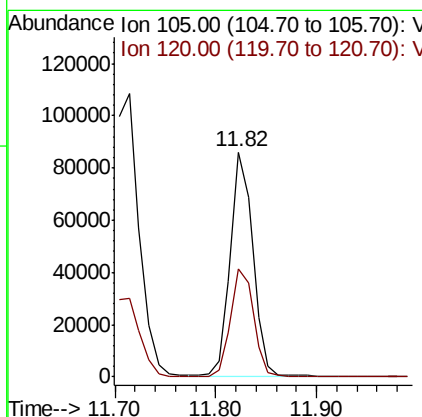
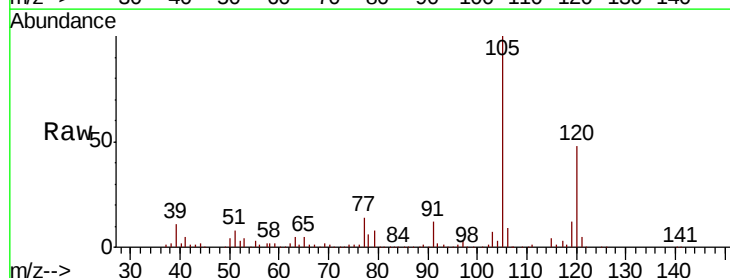
Instrument :
 MSVOA_F
 ClientSampleId :

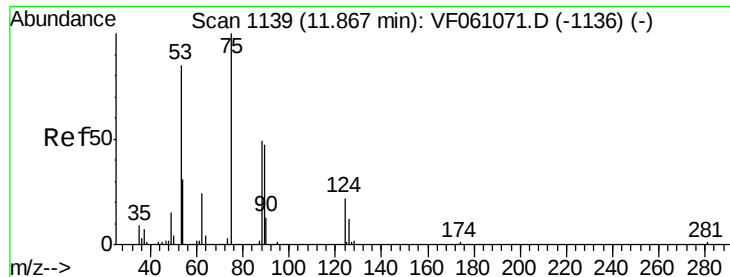
Tot Ion: 91 Resp: 24577
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.4 49.1#



#80
 1,3,5-Trimethylbenzene
 Concen: 191.937 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.00 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Tgt Ion:105 Resp: 135583
 Ion Ratio Lower Upper
 105 100
 120 47.8 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 34.130 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.04 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

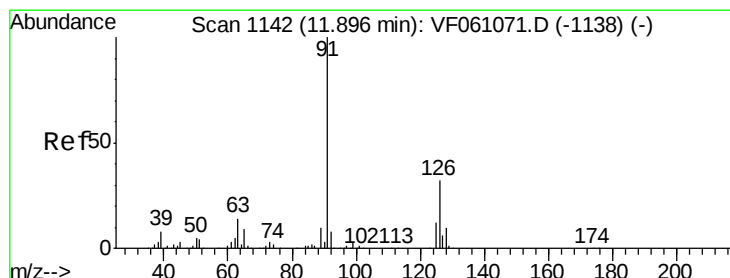
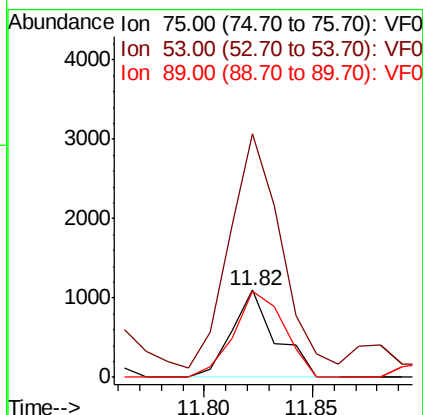
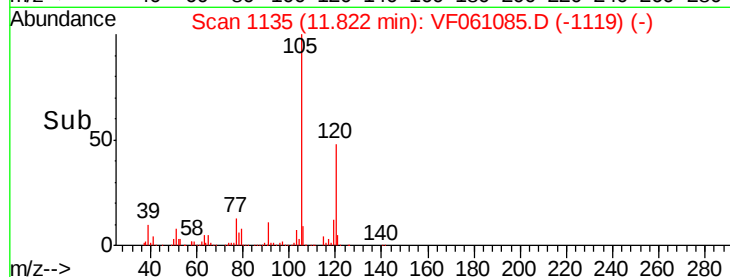
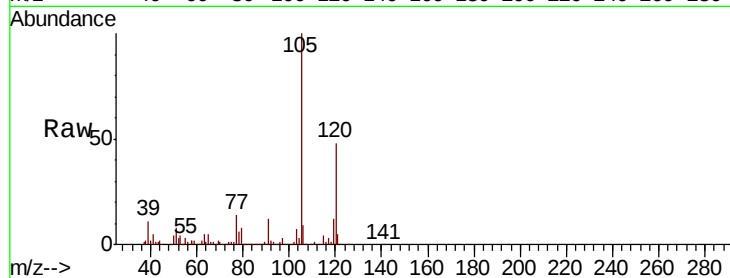
Tot Ion: 75 Resp: 1554

Ion Ratio Lower Upper

75 100

53 279.6 74.1 111.1#

89 99.5 42.6 64.0#



#82

4-Chlorotoluene

Concen: 2.508 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF061085.D

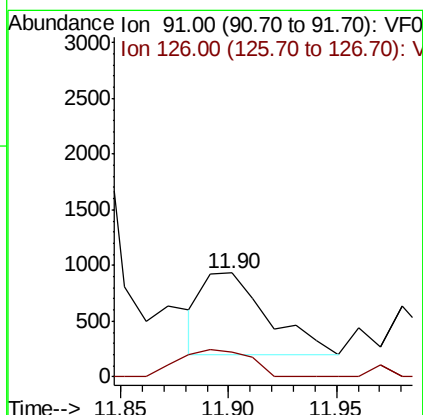
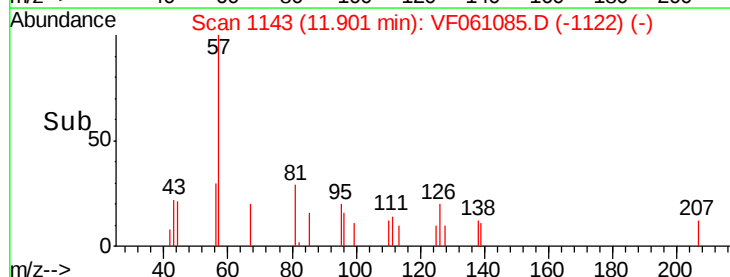
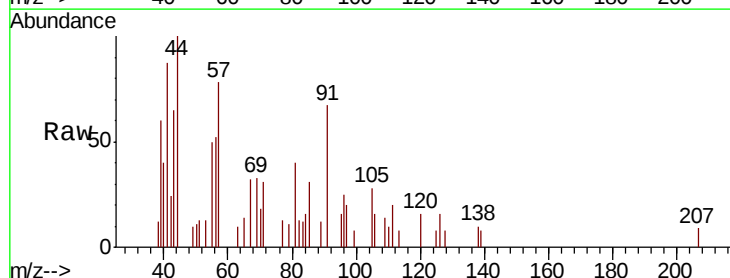
Acq: 19 Dec 2018 15:17

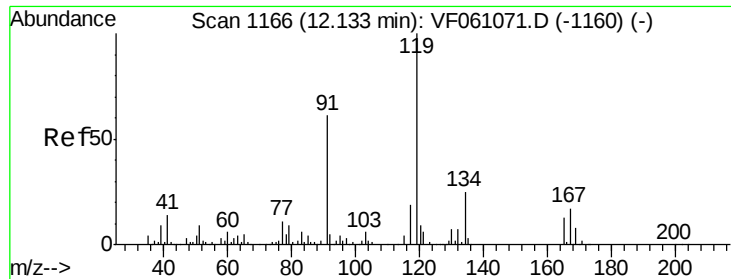
Tgt Ion: 91 Resp: 1527

Ion Ratio Lower Upper

91 100

126 23.8 16.0 47.9

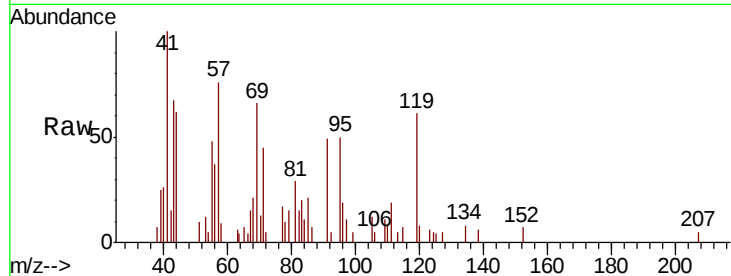




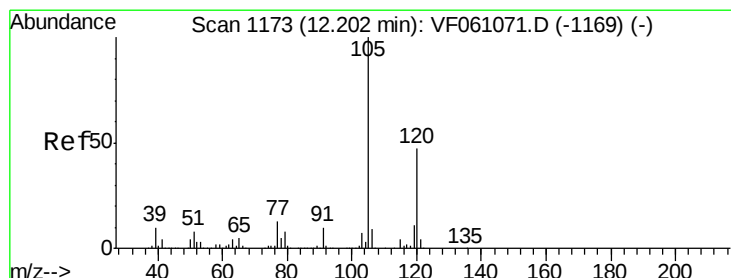
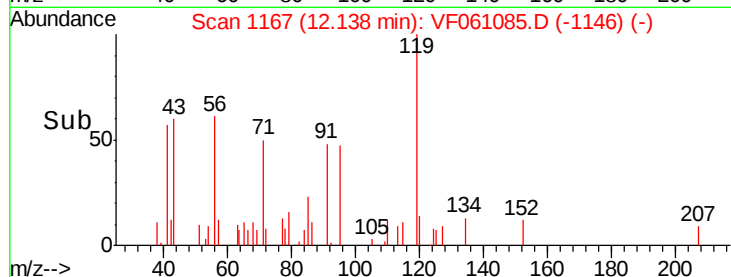
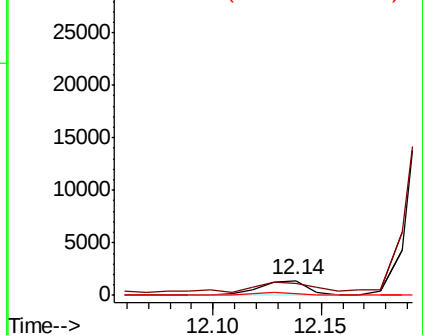
#83
tert-Butylbenzene
Concen: 3.007 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:119 Resp: 2186
Ion Ratio Lower Upper
119 100
91 80.2 30.5 91.5
134 13.3 12.4 37.4

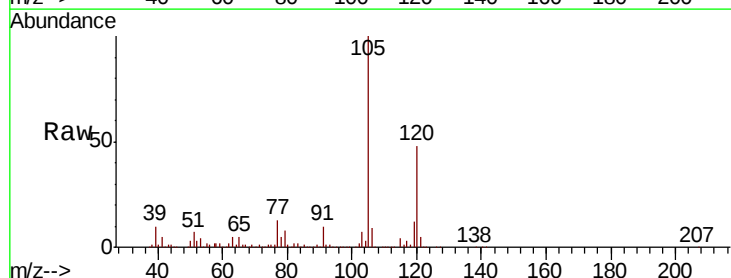


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

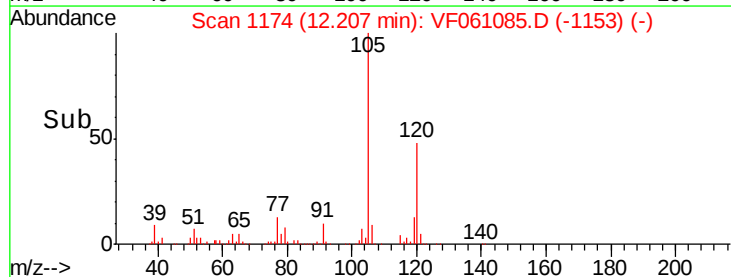
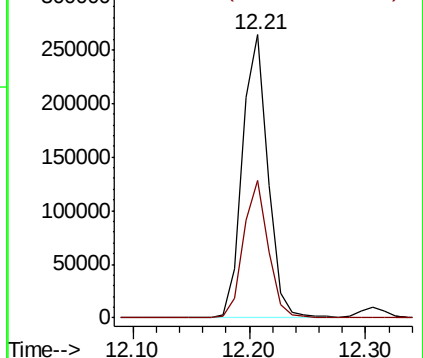


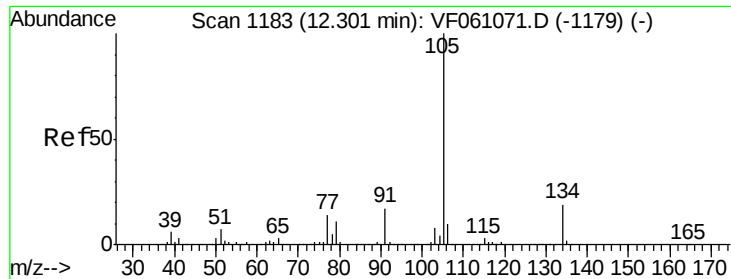
#84
1,2,4-Trimethylbenzene
Concen: 567.675 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion:105 Resp: 399886
Ion Ratio Lower Upper
105 100
120 48.4 23.6 71.0



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





#85

sec-Butylbenzene

Concen: 16.676 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

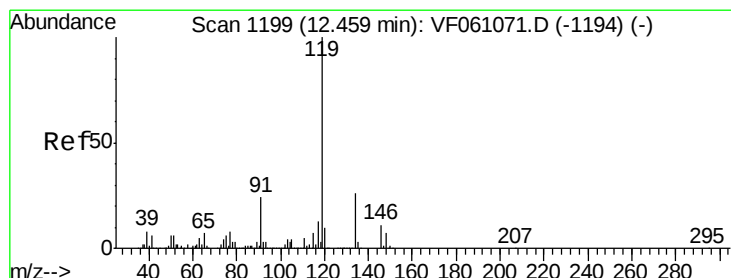
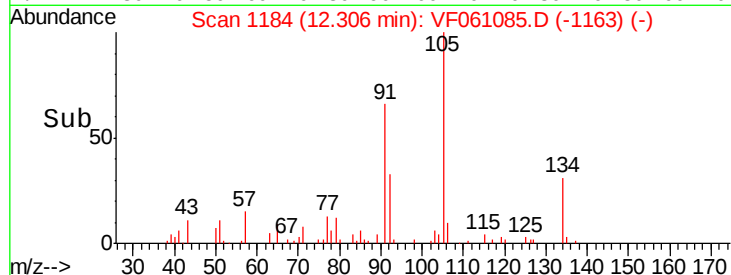
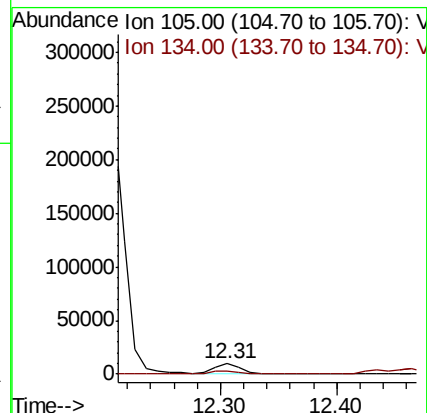
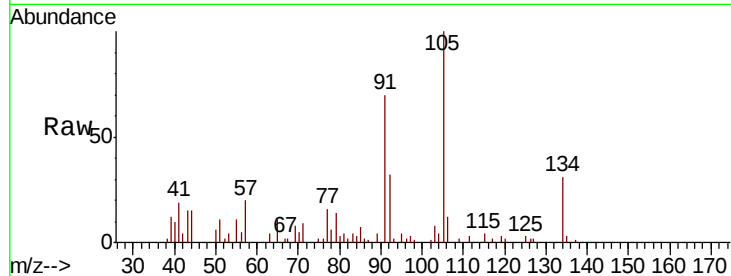
ClientSampleId :

Tot Ion:105 Resp: 15819

Ion Ratio Lower Upper

105 100

134 30.7 9.4 28.2#



#86

p-Isopropyltoluene

Concen: 63.989 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

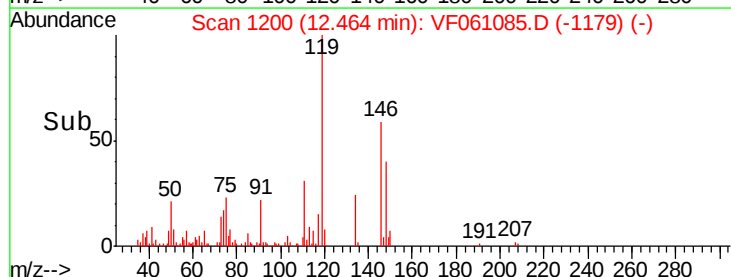
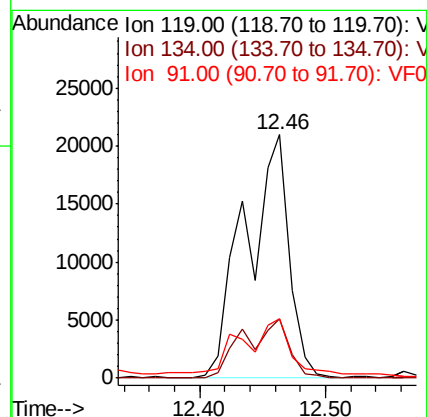
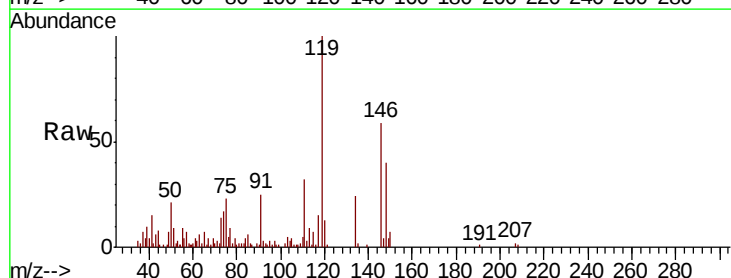
Tgt Ion:119 Resp: 50384

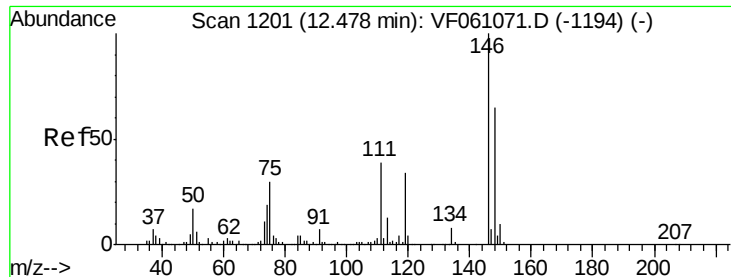
Ion Ratio Lower Upper

119 100

134 24.1 12.8 38.4

91 24.5 12.2 36.6





#87

1,3-Dichlorobenzene

Concen: 141.079 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

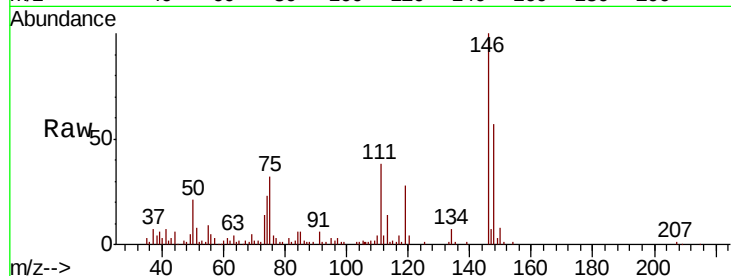
Tot Ion:146 Resp: 39565

Ion Ratio Lower Upper

146 100

111 38.0 19.3 57.9

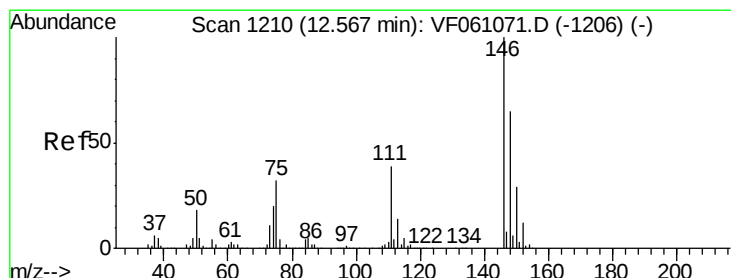
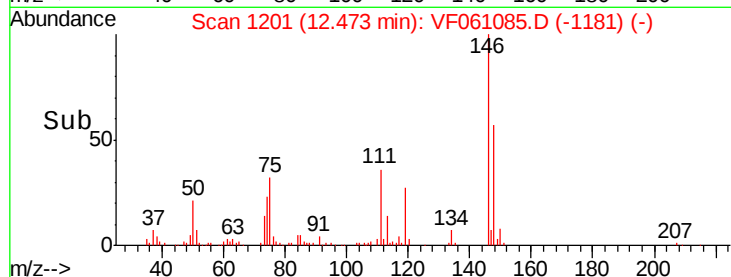
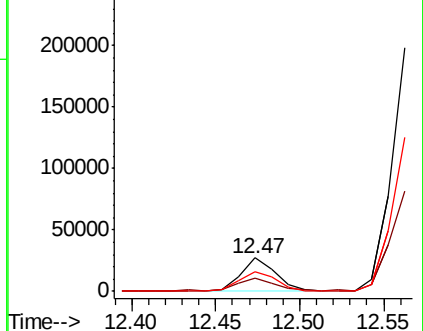
148 56.8 32.4 97.2



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



#88

1,4-Dichlorobenzene

Concen: 882.646 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

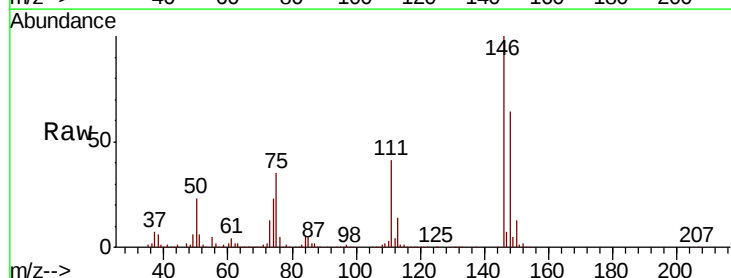
Tgt Ion:146 Resp: 299307

Ion Ratio Lower Upper

146 100

111 41.4 19.4 58.4

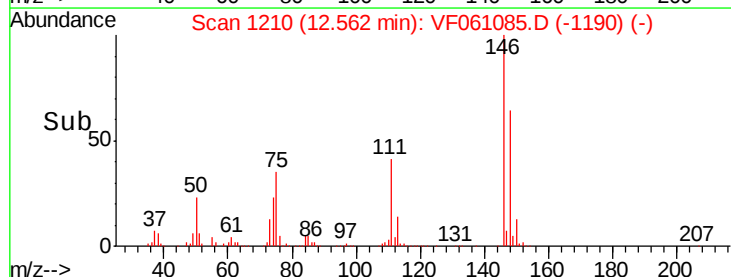
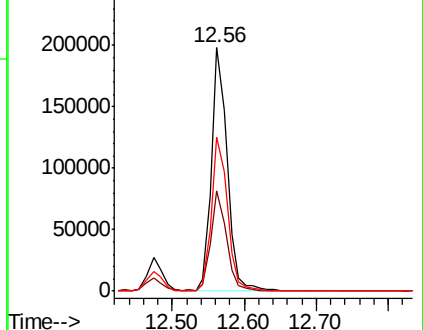
148 63.5 32.4 97.0

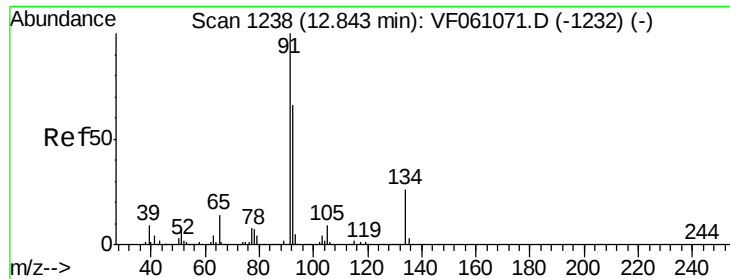


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

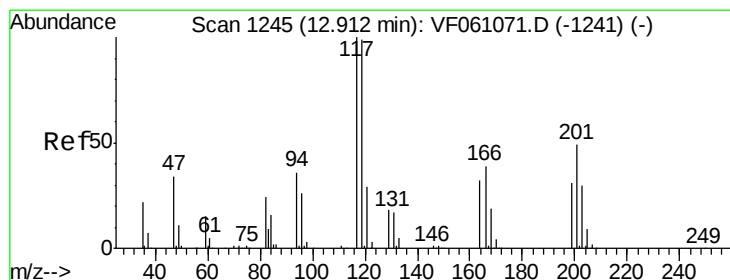
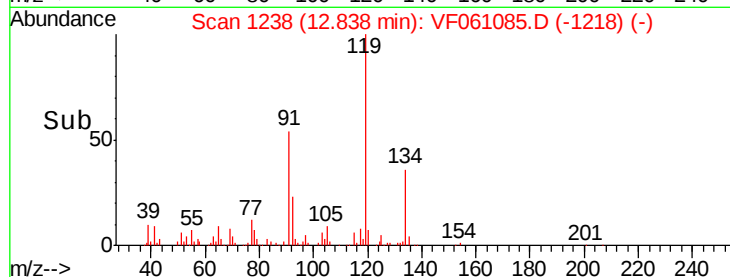
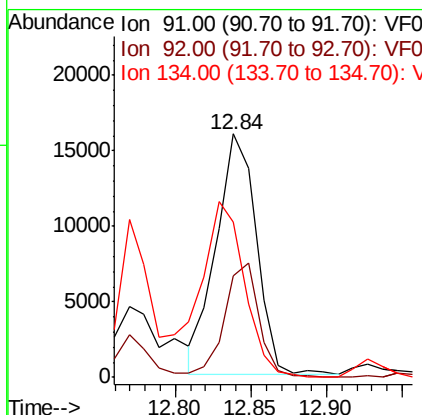
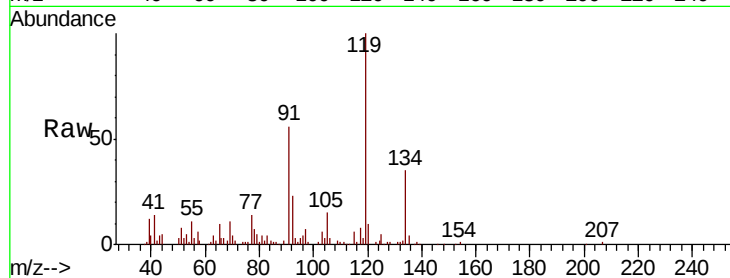




#89
n-Butylbenzene
Concen: 34.290 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

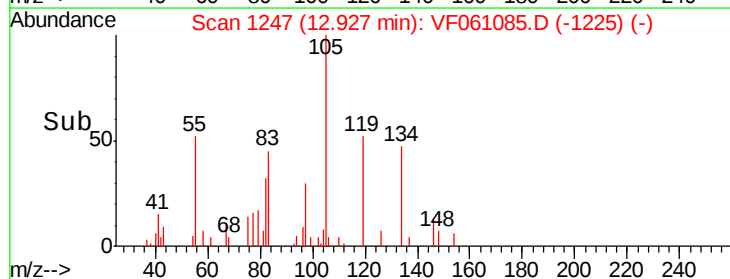
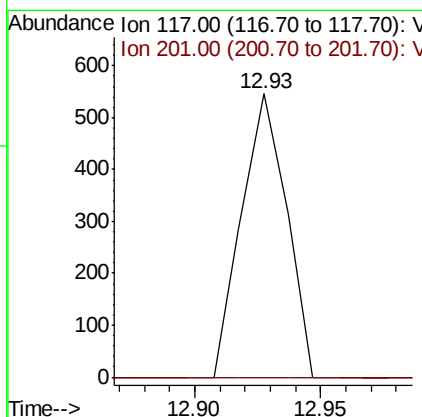
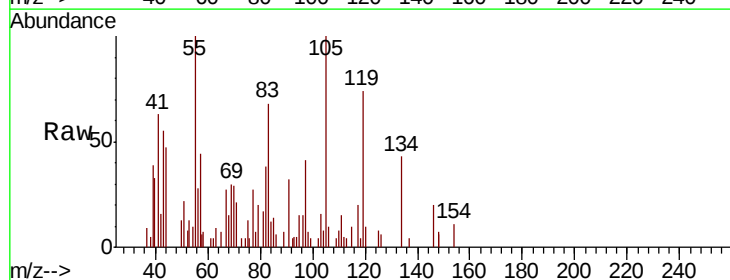
Instrument :
MSVOA_F
ClientSampled :

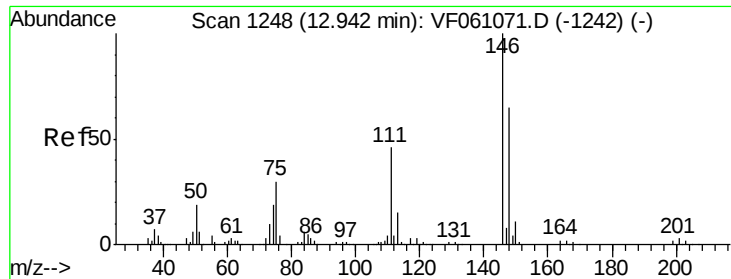
Tot Ion: 91 Resp: 29264
Ion Ratio Lower Upper
91 100
92 41.7 32.8 98.4
134 63.6 13.2 39.5#



#90
Hexachloroethane
Concen: 3.480 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion: 117 Resp: 677
Ion Ratio Lower Upper
117 100
201 0.0 24.9 74.8#





#91

1,2-Dichlorobenzene

Concen: 10.974 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

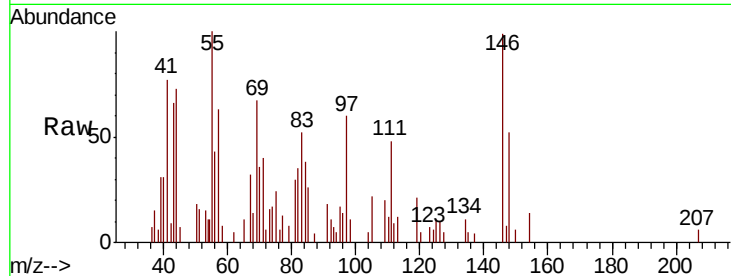
Tot Ion:146 Resp: 3623

Ion Ratio Lower Upper

146 100

111 48.1 23.2 69.5

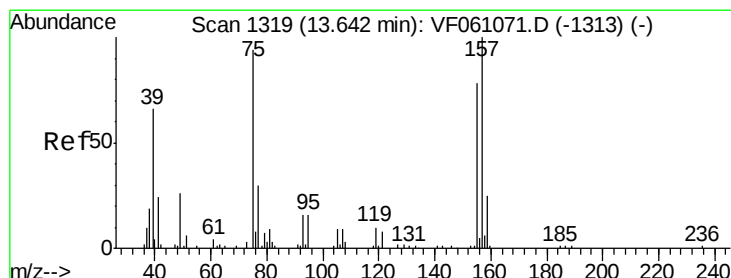
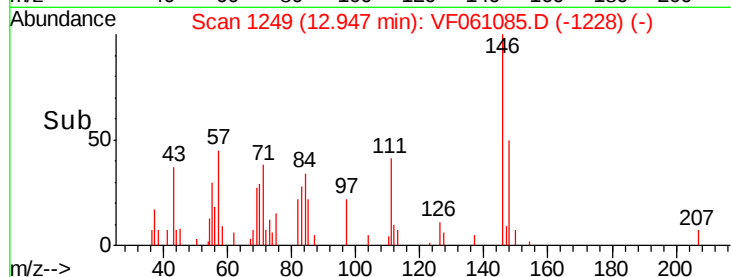
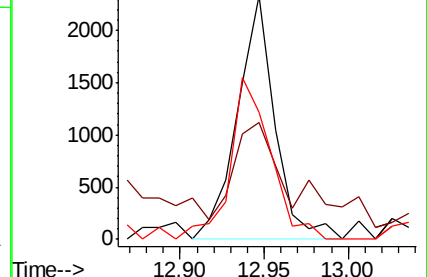
148 52.3 32.4 97.0



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: 5.894 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

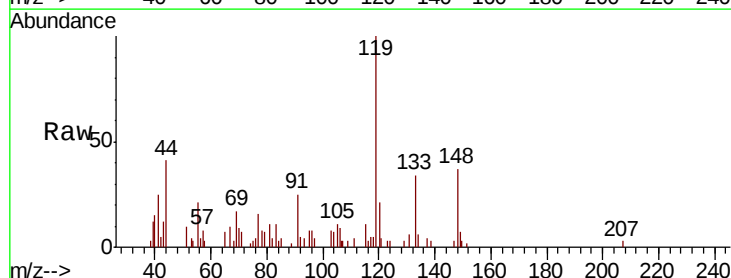
Tgt Ion: 75 Resp: 154

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

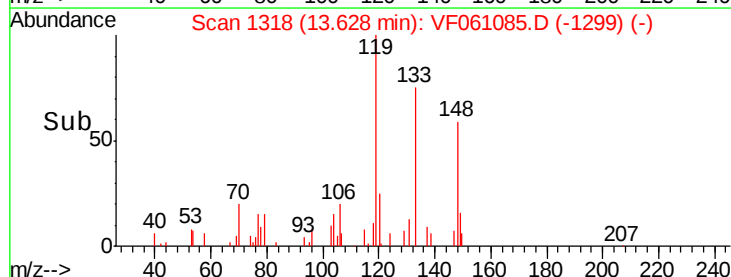
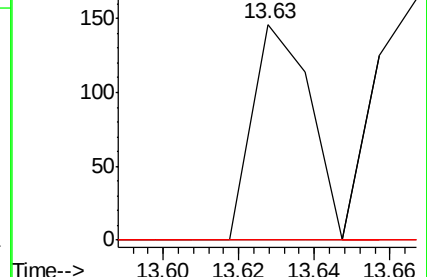
157 0.0 53.2 159.6#

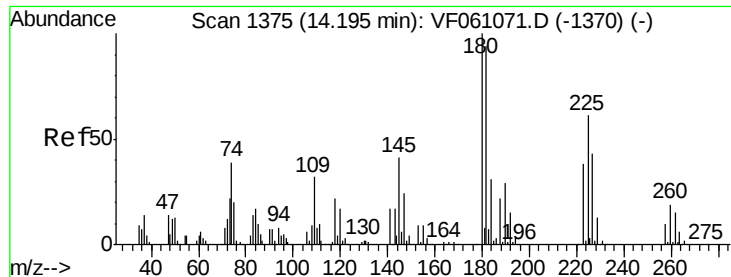


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

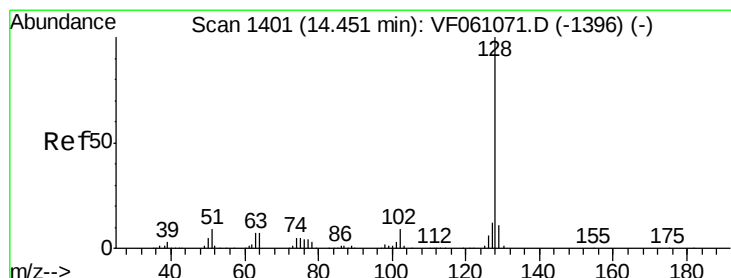
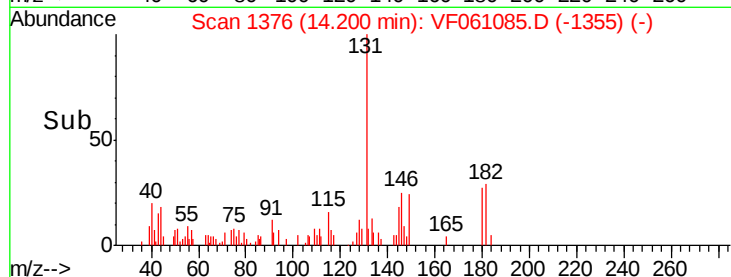
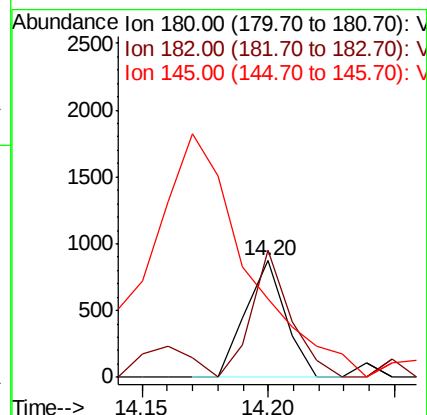
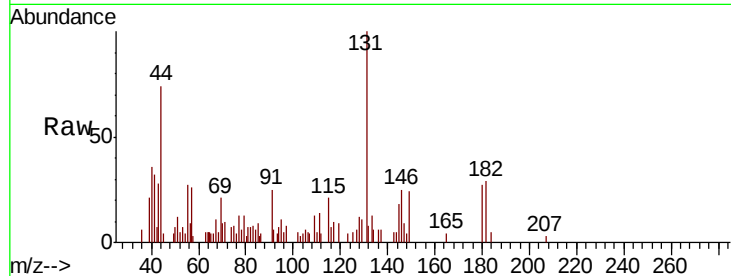




#93
 1,2,4-Trichlorobenzene
 Concen: 4.109 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

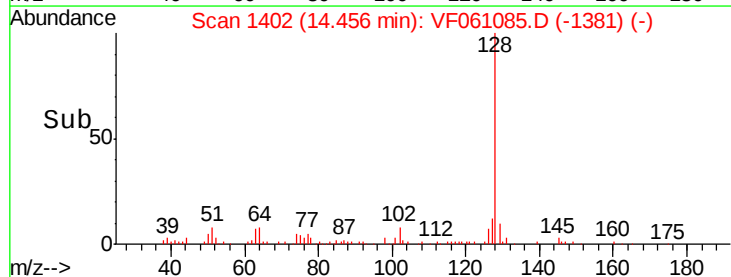
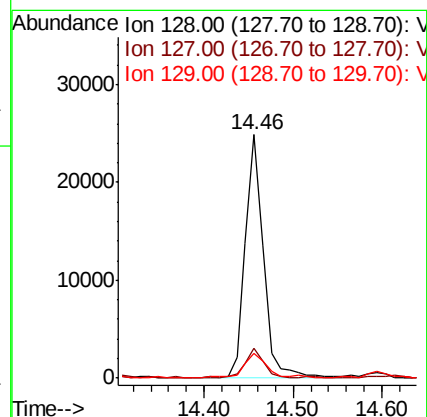
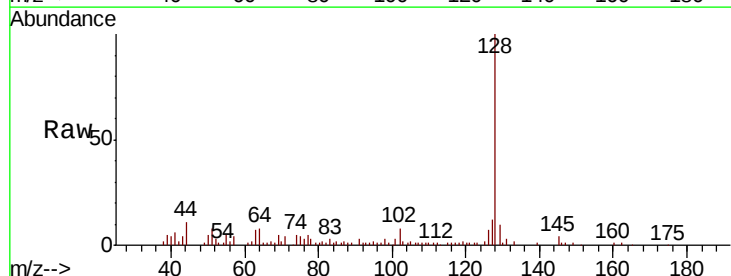
Instrument :
 MSVOA_F
 ClientSampleId :

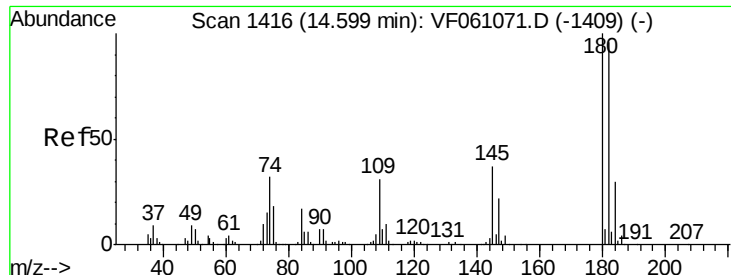
Tot Ion:180 Resp: 962
 Ion Ratio Lower Upper
 180 100
 182 108.8 46.9 140.6
 145 67.6 20.5 61.6#



#95
 Naphthalene
 Concen: 84.670 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Tgt Ion:128 Resp: 36200
 Ion Ratio Lower Upper
 128 100
 127 12.3 9.4 14.2
 129 10.1 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 3.728 ug/l
 RT: 14.60 min Scan# 1417
 Delta R.T. 0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:180 Resp: 807
 Ion Ratio Lower Upper
 180 100
 182 81.1 47.9 143.8
 145 78.4 18.6 55.8#

