

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111918\
 Data File : VF060789.D
 Acq On : 19 Nov 2018 21:27
 Operator : VA/AP
 Sample : J5950-07
 Misc : 6.24g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-21-TW-2

Quant Time: Nov 20 02:20:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	150796	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	256945	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	231694	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	119840	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	93342	54.27	ug/l	0.00
Spiked Amount			Recovery	=	108.54%	
35) Dibromofluoromethane	4.12	113	109226	56.55	ug/l	0.00
Spiked Amount			Recovery	=	113.10%	
50) Toluene-d8	7.56	98	264186	53.57	ug/l	0.00
Spiked Amount			Recovery	=	107.14%	
62) 4-Bromofluorobenzene	11.42	95	130096	57.53	ug/l	0.00
Spiked Amount			Recovery	=	115.06%	

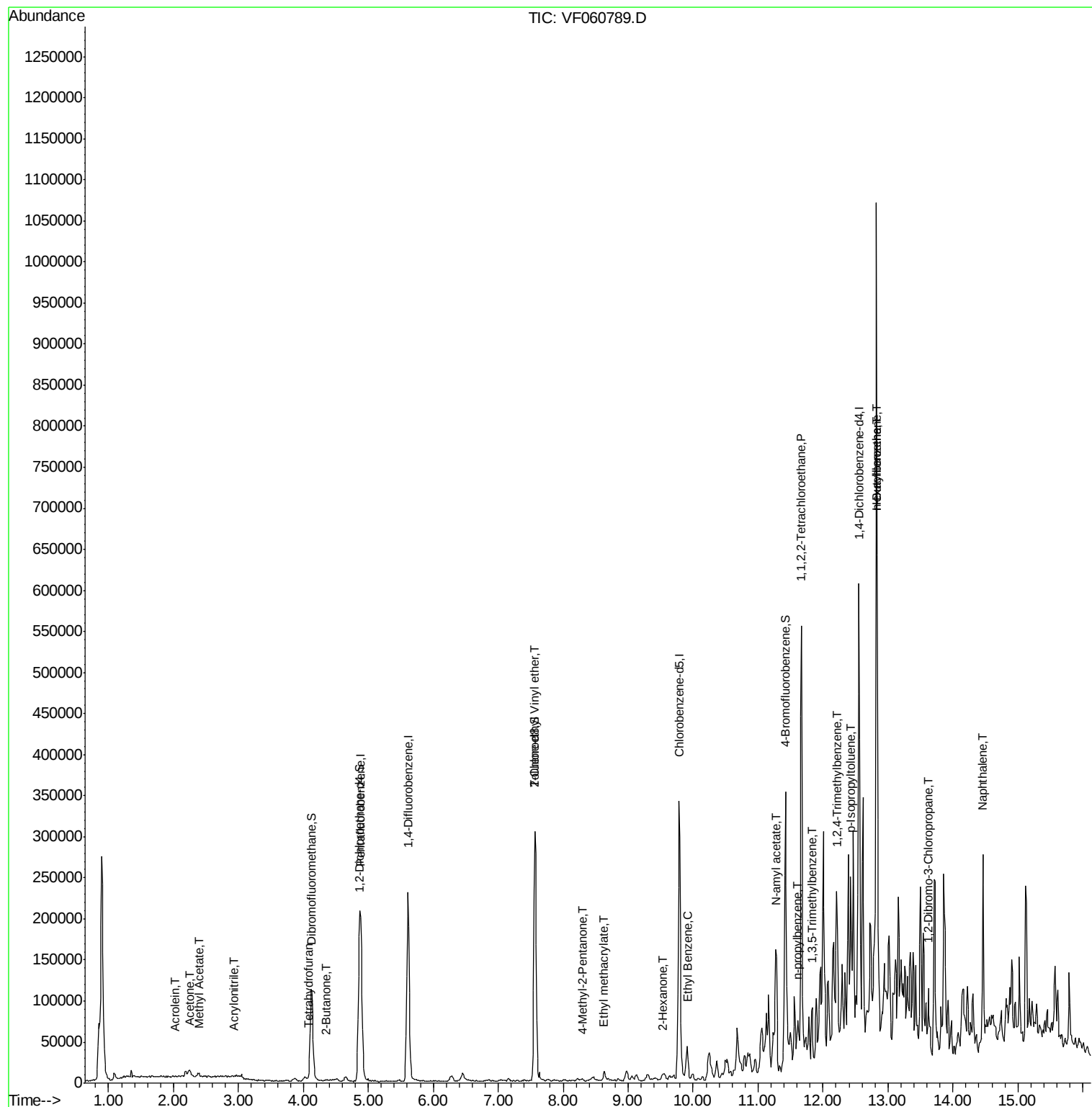
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.01	56	585	8.173	ug/l #	49
15) Acrylonitrile	2.94	53	434	2.602	ug/l #	23
16) Acetone	2.24	43	9664	26.287	ug/l	96
18) Methyl Acetate	2.39	43	3380	5.599	ug/l #	64
20) Methylene Chloride	2.20	84	2311	Below Cal	#	69
25) 2-Butanone	4.35	43	3925	6.491	ug/l	93
29) Tetrahydrofuran	4.07	42	455	1.824	ug/l #	36
41) Methacrylonitrile	4.75	41	401	Below Cal	#	38
51) 4-Methyl-2-Pentanone	8.28	43	3593	3.382	ug/l #	68
56) Ethyl methacrylate	8.63	69	6838	4.734	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.57	63	301	2.281	ug/l	100
59) 2-Hexanone	9.52	43	2449	3.280	ug/l #	59
67) Ethyl Benzene	9.91	91	19069	2.164	ug/l	91
74) N-amyl acetate	11.28	43	19300	8.789	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	11.68	83	10889	6.828	ug/l #	1
78) n-propylbenzene	11.60	91	16571	1.473	ug/l	96
80) 1,3,5-Trimethylbenzene	11.84	105	18803	2.455	ug/l	94
84) 1,2,4-Trimethylbenzene	12.21	105	18079	2.283	ug/l	96
86) p-Isopropyltoluene	12.44	119	9576	1.039	ug/l #	87
89) n-Butylbenzene	12.84	91	19135	2.035	ug/l #	1
90) Hexachloroethane	12.84	117	6522	2.894	ug/l #	21
92) 1,2-Dibromo-3-Chloropropan	13.62	75	419	1.398	ug/l #	7
95) Naphthalene	14.46	128	56399	11.430	ug/l	99

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF111918\
Data File : VF060789.D
Acq On : 19 Nov 2018 21:27
Operator : VA/AP
Sample : J5950-07
Misc : 6.24g/5mL/MSVOA-F/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SSI-21-TW-2

Quant Time: Nov 20 02:20:17 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

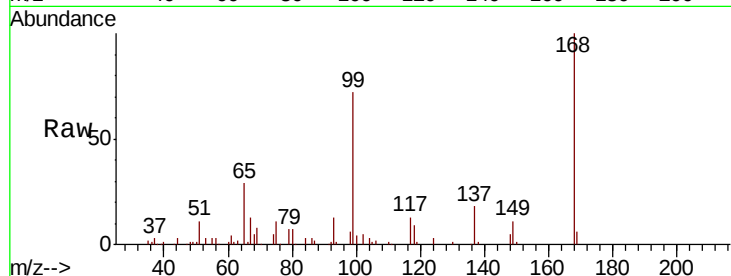
SSI-21-TW-2

Tot Ion:168 Resp: 150796

Ion Ratio Lower Upper

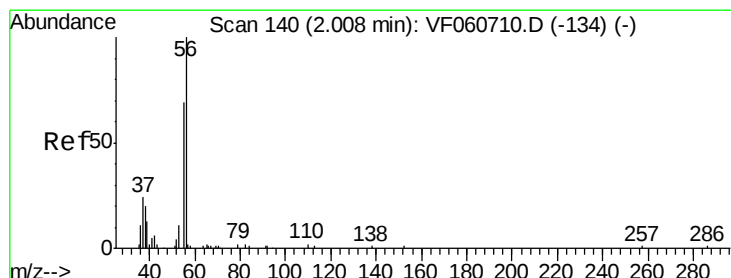
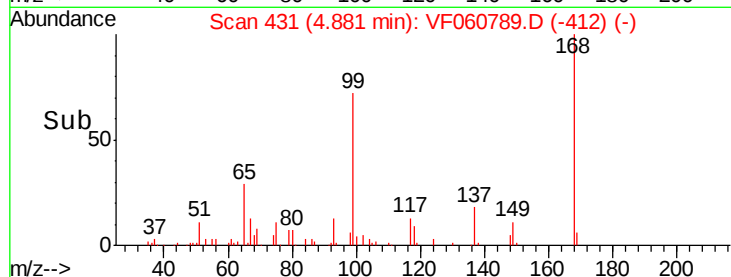
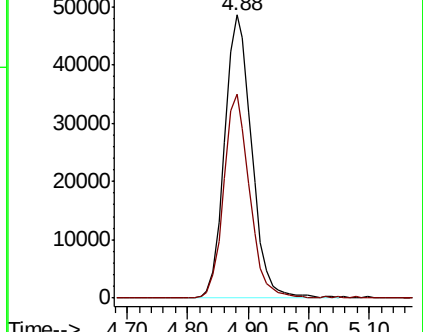
168 100

99 72.0 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: 8.173 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF060789.D

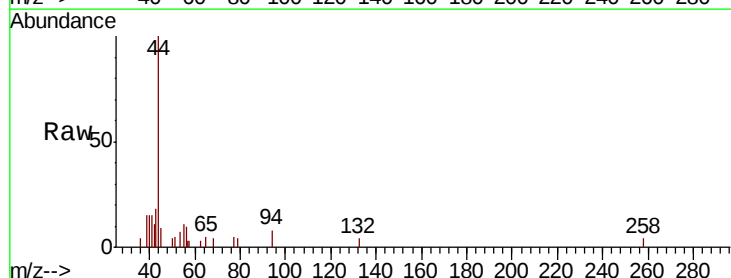
Acq: 19 Nov 2018 21:27

Tgt Ion: 56 Resp: 585

Ion Ratio Lower Upper

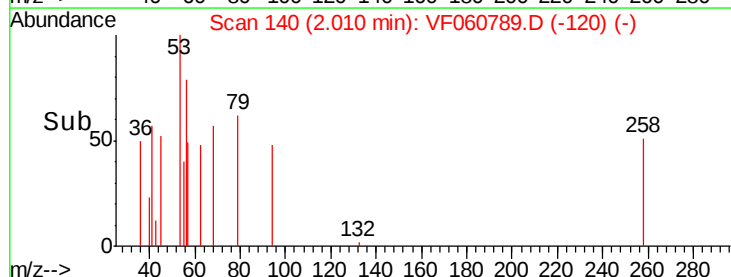
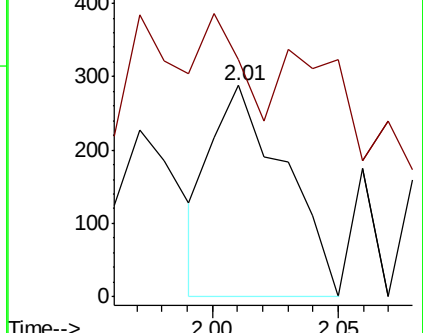
56 100

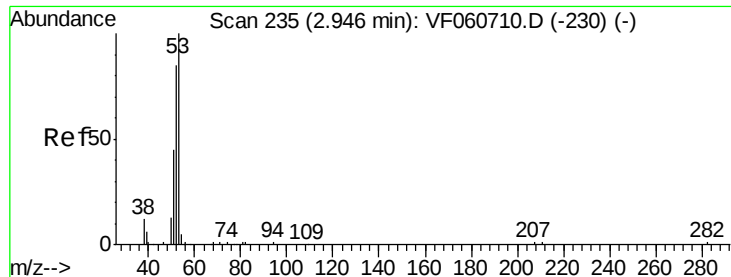
55 112.5 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 2.602 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

SSI-21-TW-2

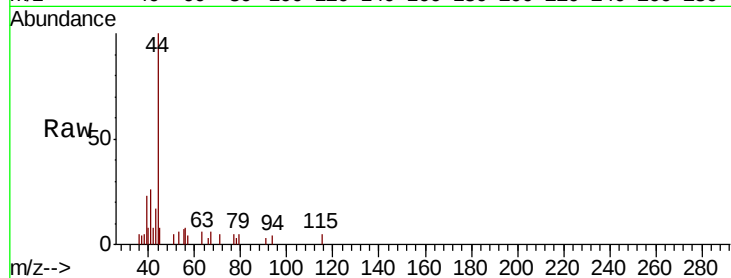
Tot Ion: 53 Resp: 434

Ion Ratio Lower Upper

53 100

52 0.0 68.8 103.2#

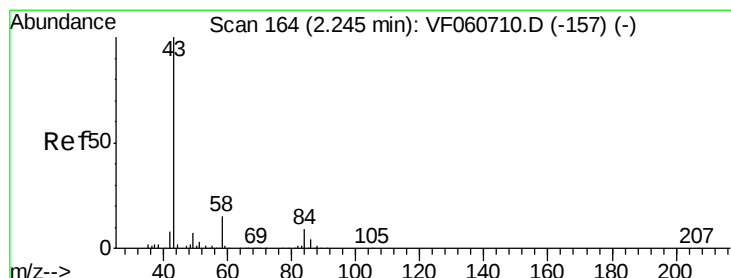
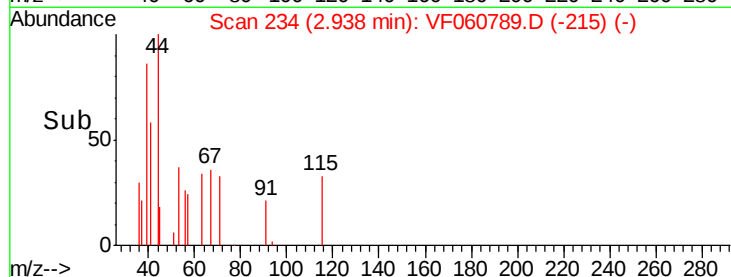
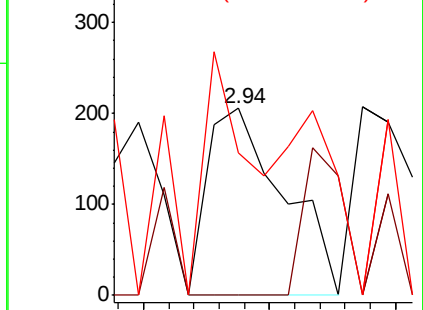
51 76.2 36.7 55.1#



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: 26.287 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF060789.D

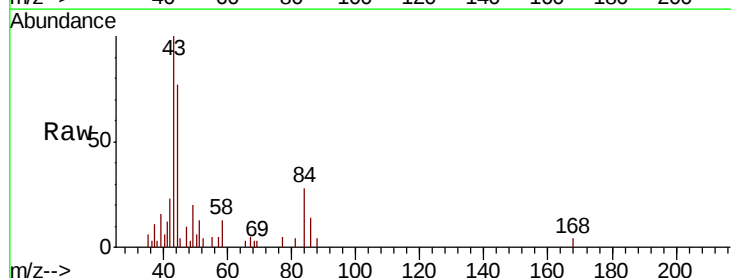
Acq: 19 Nov 2018 21:27

Tgt Ion: 43 Resp: 9664

Ion Ratio Lower Upper

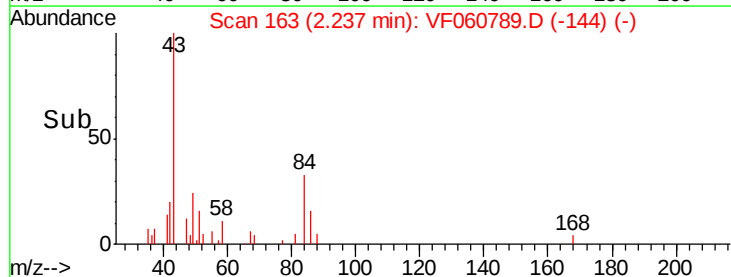
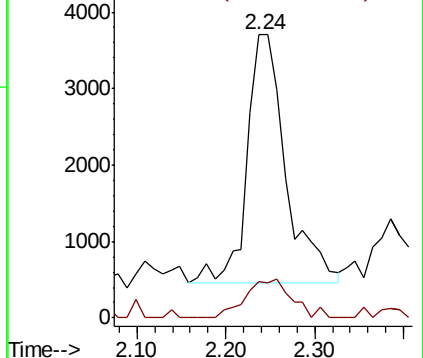
43 100

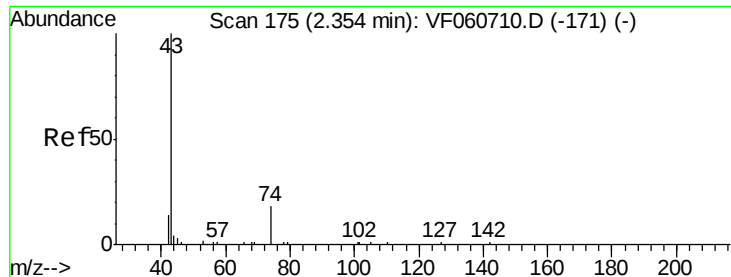
58 12.7 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

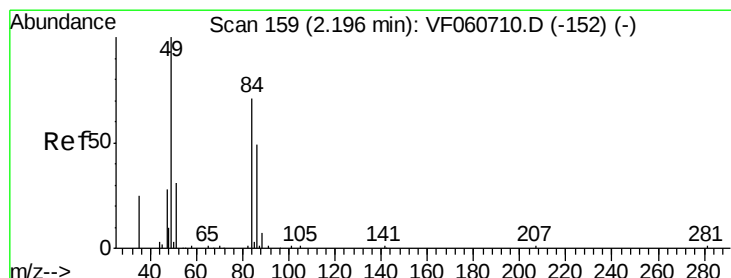
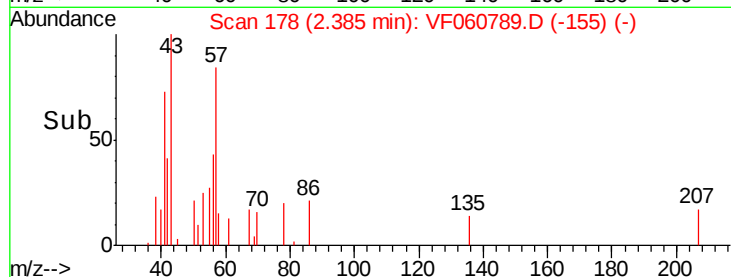
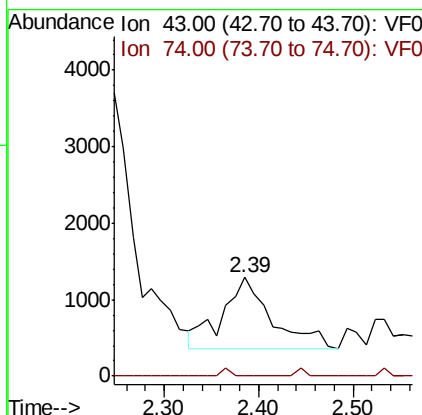
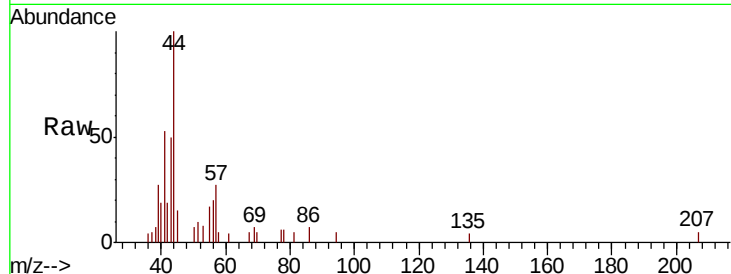




#18
Methyl Acetate
Concen: 5.599 ug/l
RT: 2.39 min Scan# 178
Delta R.T. 0.03 min
Lab File: VF060789.D
Acq: 19 Nov 2018 21:27

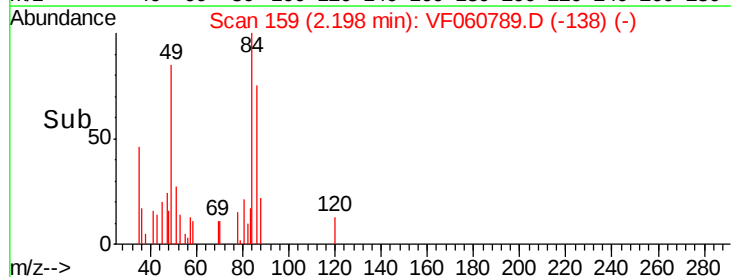
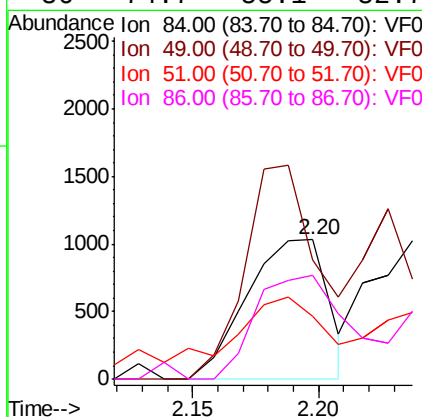
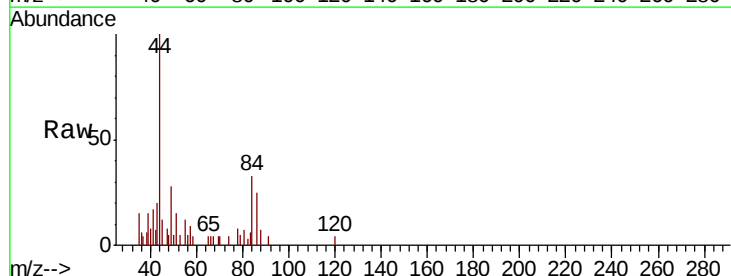
Instrument :
MSVOA_F
ClientSampleId :
SSI-21-TW-2

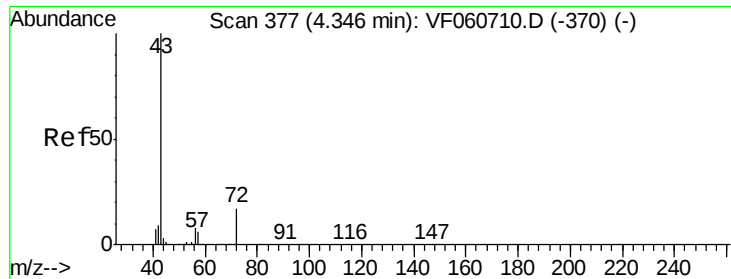
Tot Ion: 43 Resp: 3380
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.20 min Scan# 159
Delta R.T. 0.00 min
Lab File: VF060789.D
Acq: 19 Nov 2018 21:27

Tgt Ion: 84 Resp: 2311
Ion Ratio Lower Upper
84 100
49 85.4 120.2 180.4#
51 44.6 37.2 55.8
86 74.7 55.1 82.7





#25

2-Butanone

Concen: 6.491 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.00 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

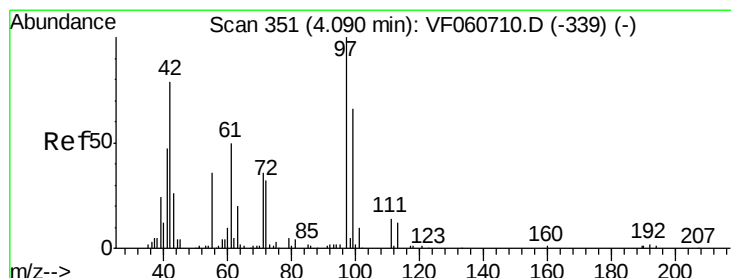
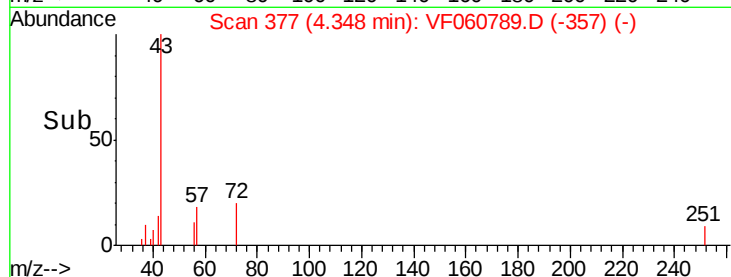
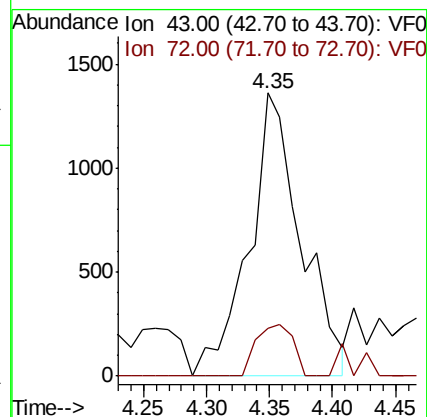
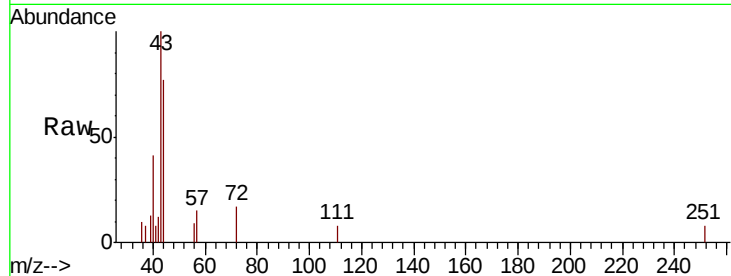
SSI-21-TW-2

Tot Ion: 43 Resp: 3925

Ion Ratio Lower Upper

43 100

72 16.8 16.1 24.1



#29

Tetrahydrofuran

Concen: 1.824 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

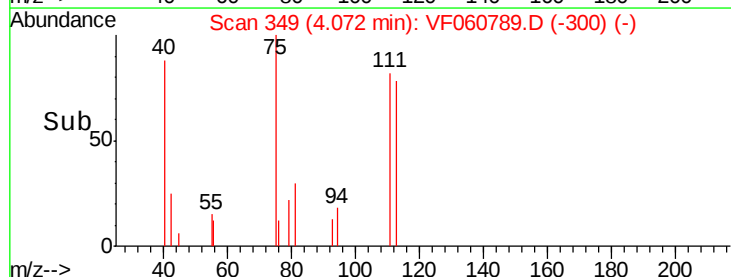
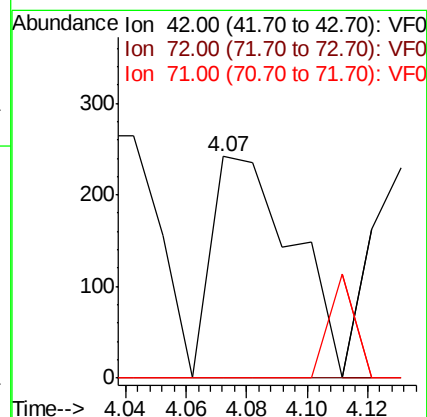
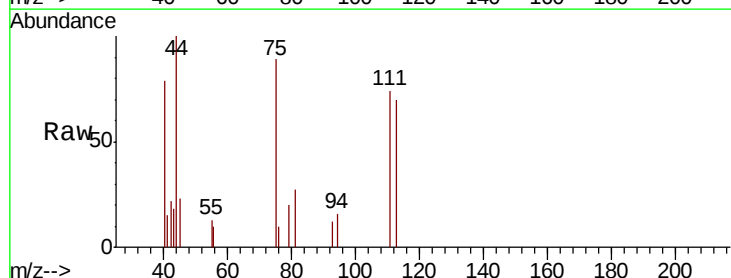
Tgt Ion: 42 Resp: 455

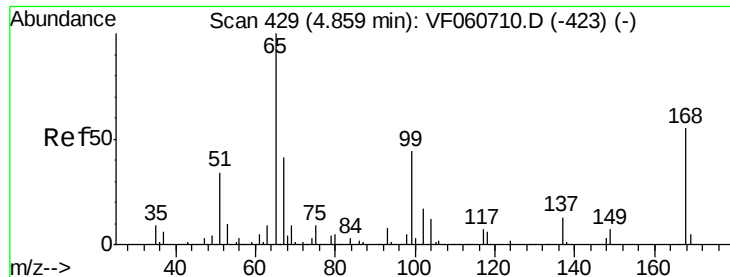
Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 32.2 48.2#





#33

1,2-Dichloroethane-d4

Concen: 54.268 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

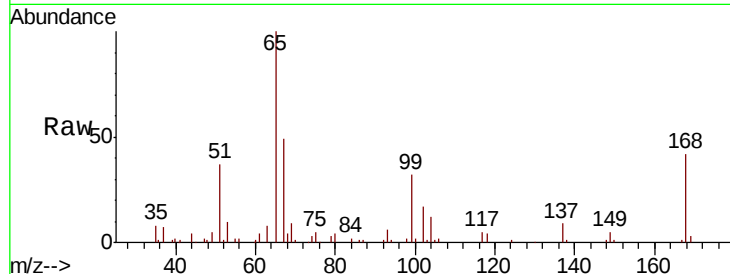
SSI-21-TW-2

Tot Ion: 65 Resp: 93342

Ion Ratio Lower Upper

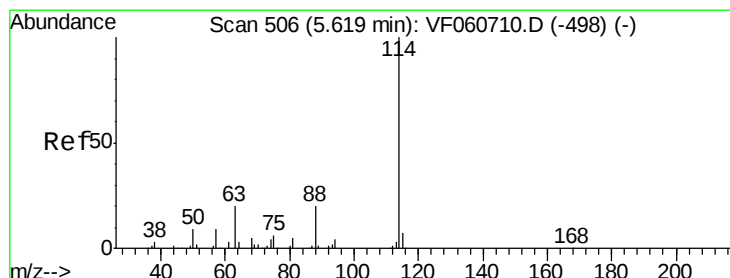
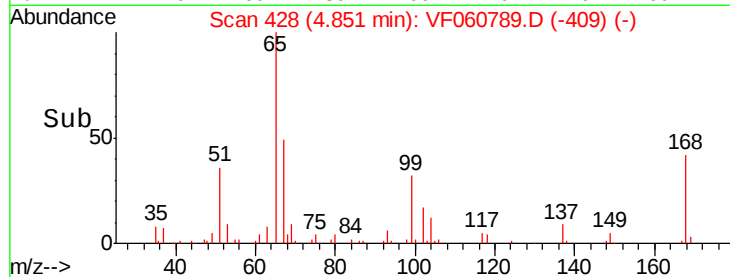
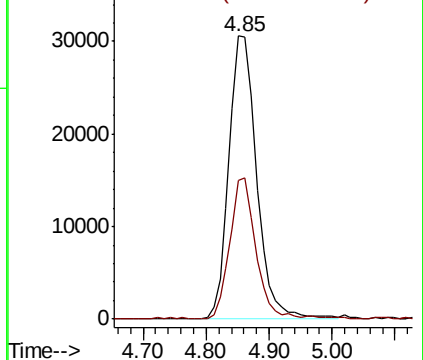
65 100

67 49.2 0.0 90.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

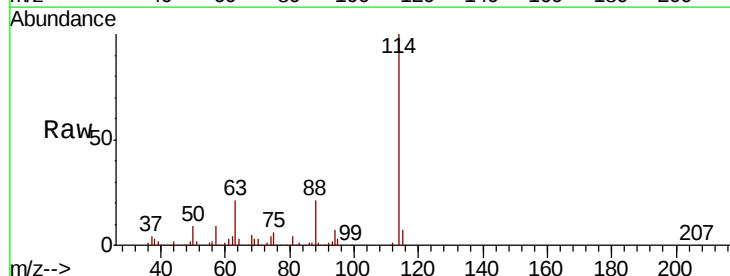
Tgt Ion: 114 Resp: 256945

Ion Ratio Lower Upper

114 100

63 21.4 0.0 40.8

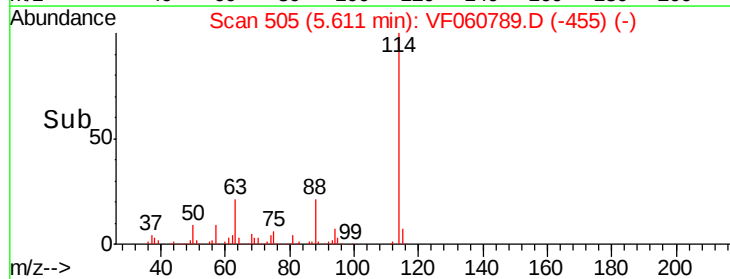
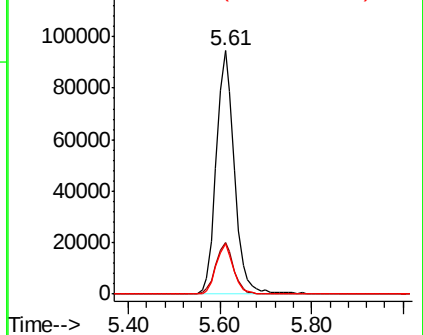
88 20.6 0.0 39.6

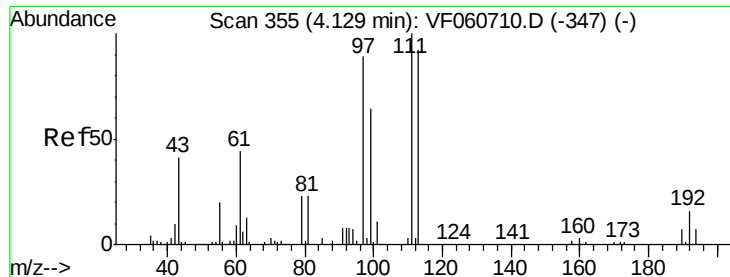


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 56.552 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

SSI-21-TW-2

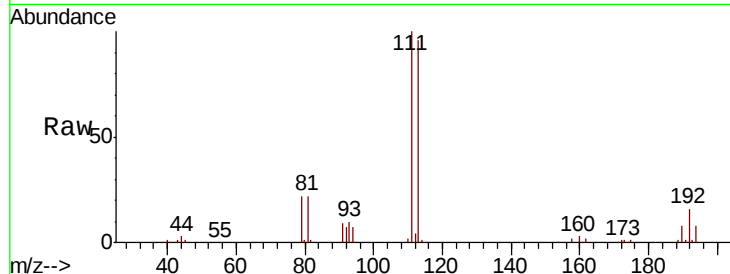
Tot Ion:113 Resp: 109226

Ion Ratio Lower Upper

113 100

111 104.2 87.1 130.7

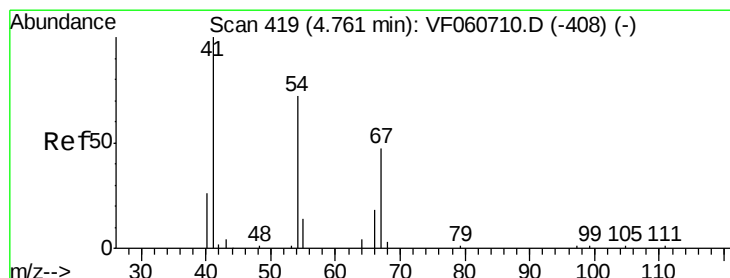
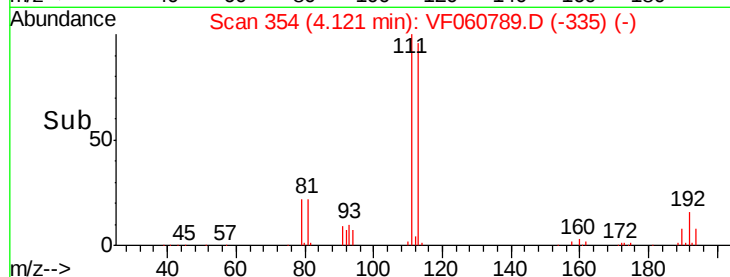
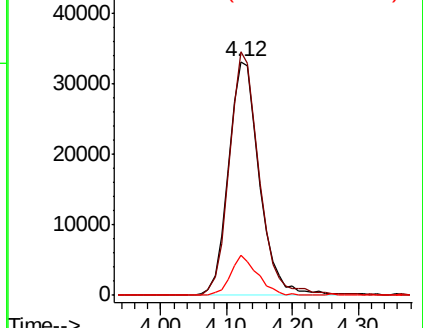
192 17.0 13.8 20.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.75 min Scan# 418

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Tgt Ion: 41 Resp: 401

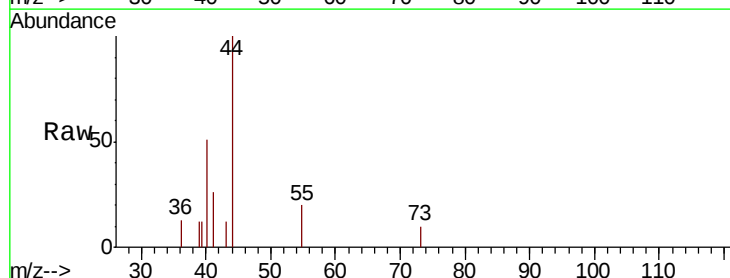
Ion Ratio Lower Upper

41 100

39 95.1 47.1 70.7#

67 0.0 37.1 55.7#

52 0.0 39.3 58.9#

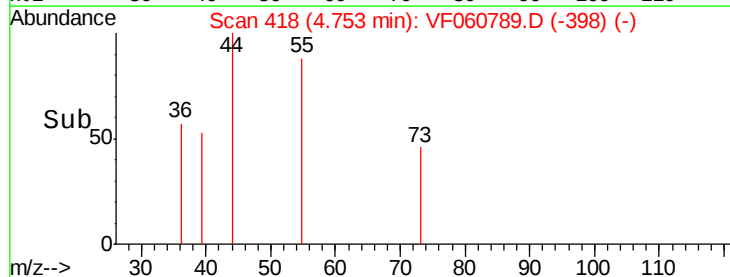
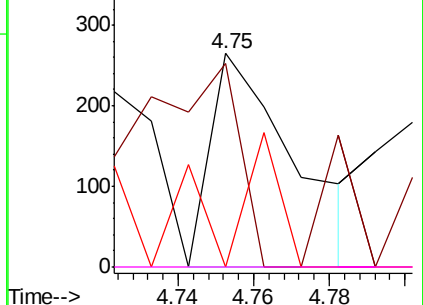


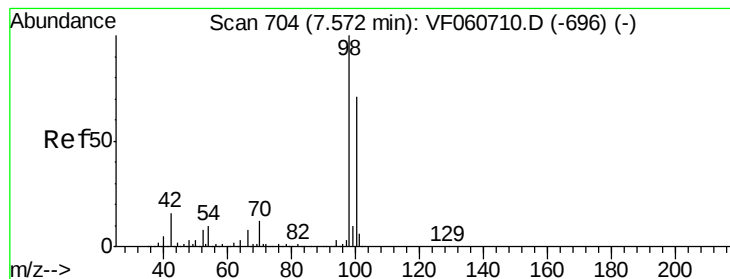
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#50

Toluene-d8

Concen: 53.565 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

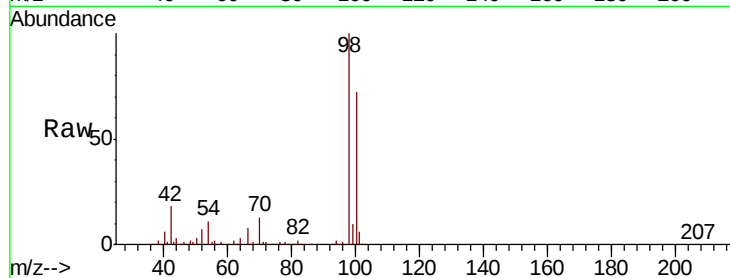
SSI-21-TW-2

Tot Ion: 98 Resp: 264186

Ion Ratio Lower Upper

98 100

100 71.8 56.5 84.7



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.56

120000

100000

80000

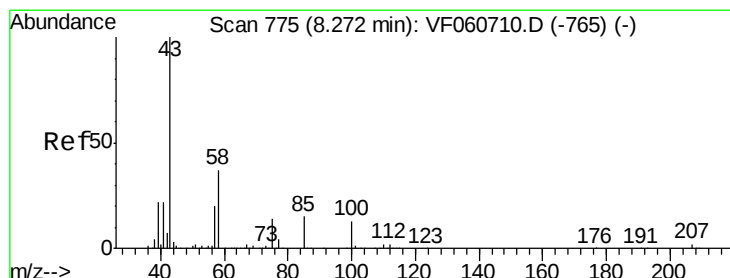
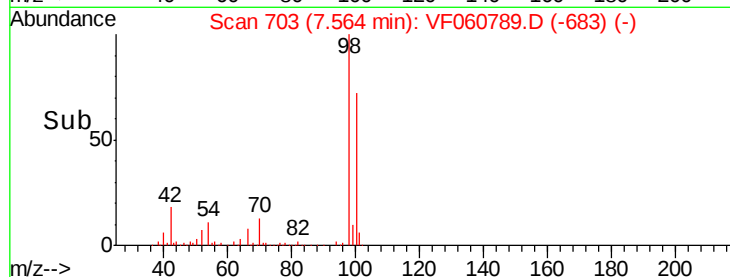
60000

40000

20000

0

Time--> 7.40 7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 3.382 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF060789.D

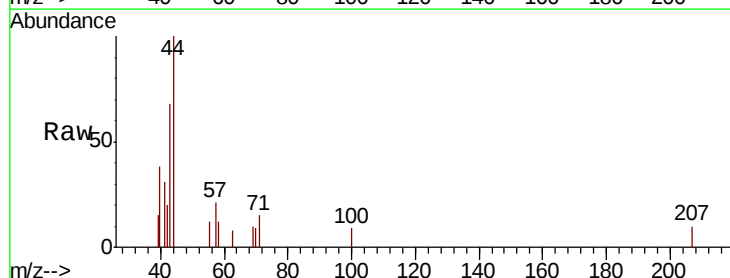
Acq: 19 Nov 2018 21:27

Tgt Ion: 43 Resp: 3593

Ion Ratio Lower Upper

43 100

58 17.8 29.2 43.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

1000

800

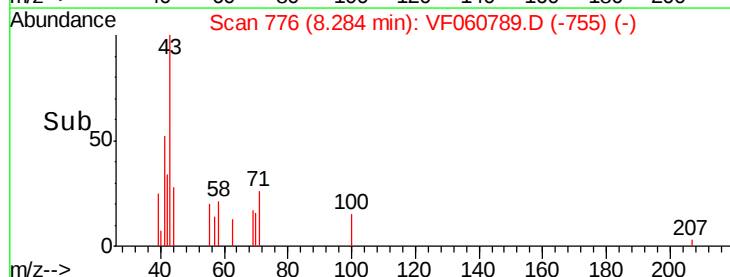
600

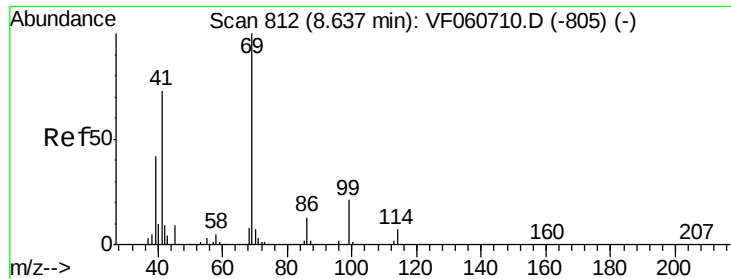
400

200

0

Time--> 8.20 8.30 8.40





#56

Ethyl methacrylate

Concen: 4.734 ug/l

RT: 8.63 min Scan# 811

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

SSI-21-TW-2

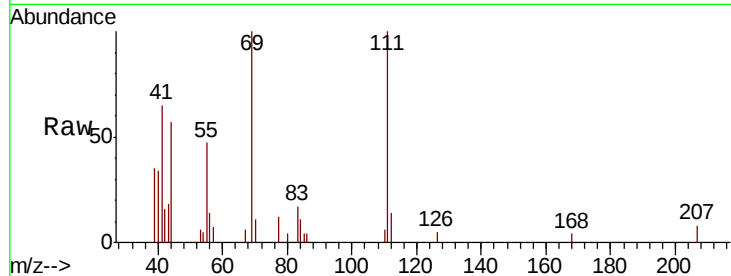
Tot Ion: 69 Resp: 6838

Ion Ratio Lower Upper

69 100

41 65.6 59.0 88.6

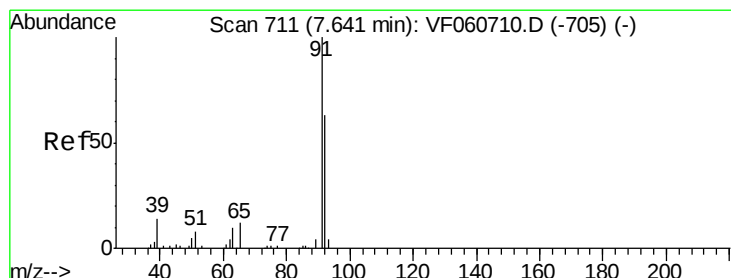
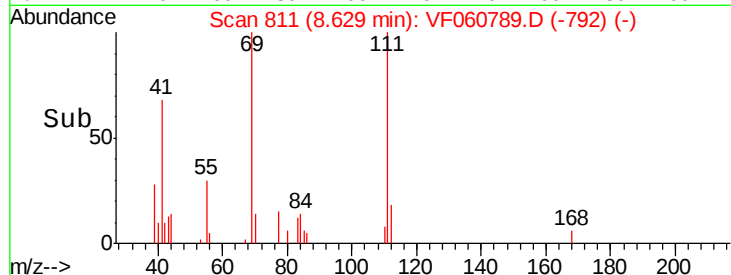
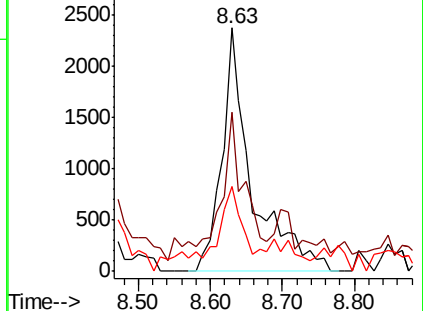
39 35.0 34.0 51.0



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



#58

2-Chloroethyl Vinyl ether

Concen: 2.281 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.07 min

Lab File: VF060789.D

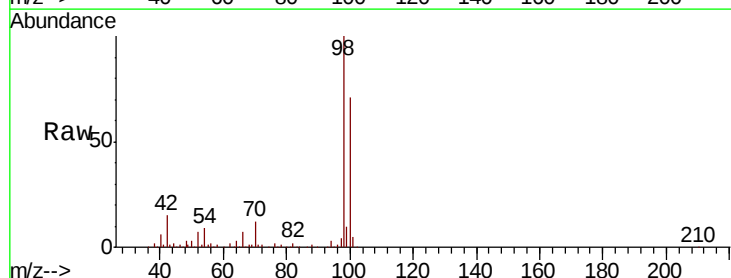
Acq: 19 Nov 2018 21:27

Tgt Ion: 63 Resp: 301

Ion Ratio Lower Upper

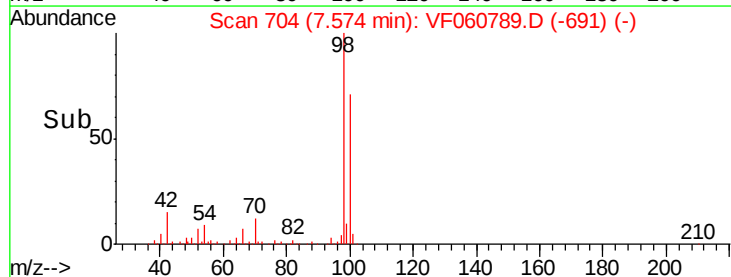
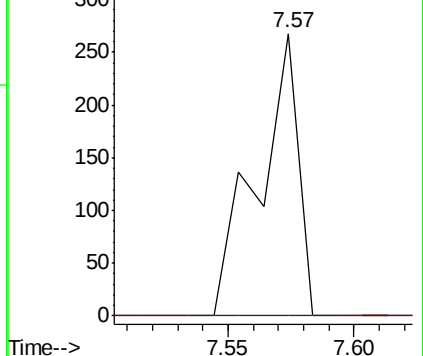
63 100

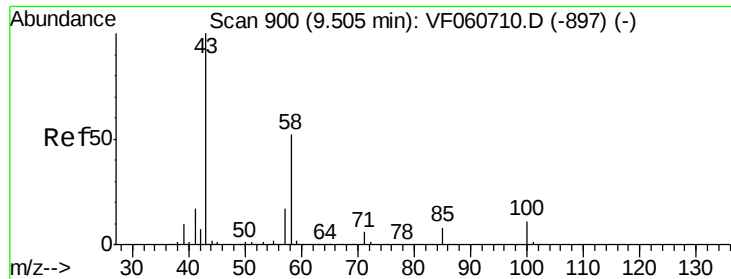
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

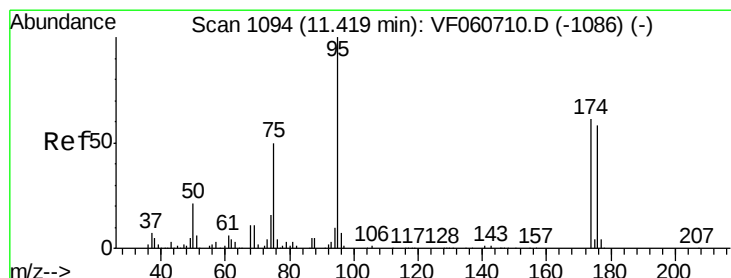
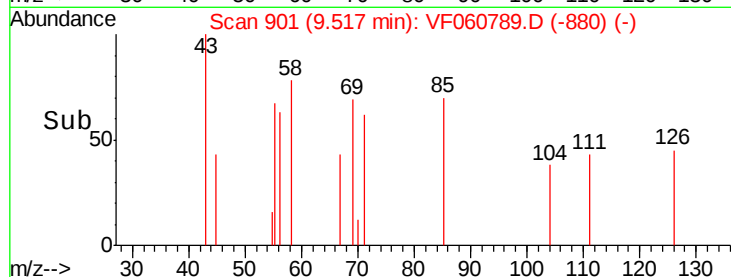
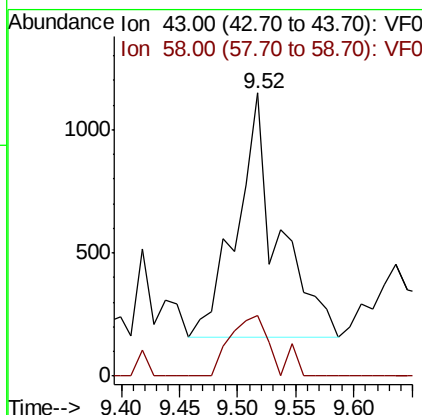
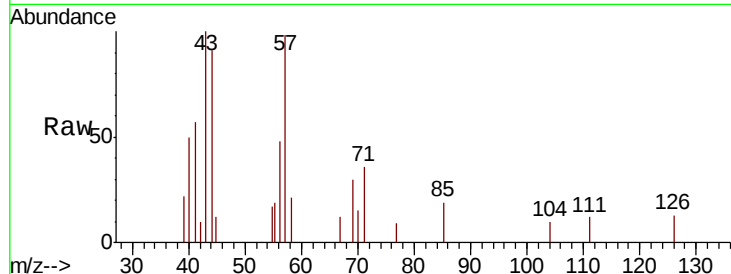




#59
2-Hexanone
Concen: 3.280 ug/l
RT: 9.52 min Scan# 901
Delta R.T. 0.01 min
Lab File: VF060789.D
Acq: 19 Nov 2018 21:27

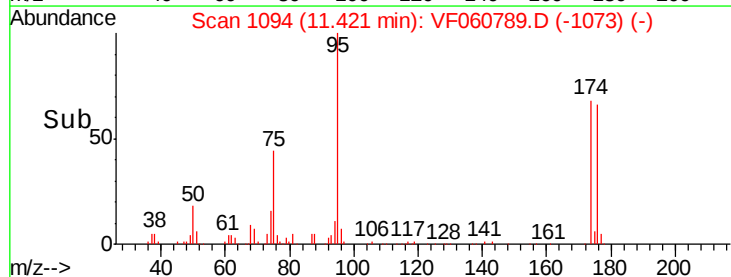
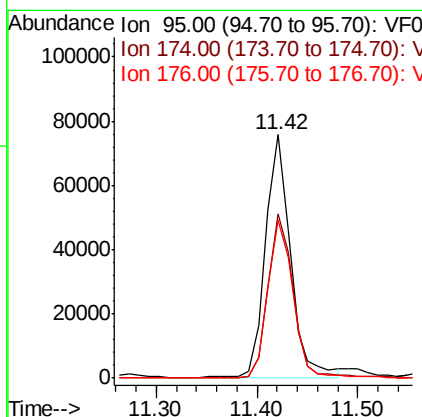
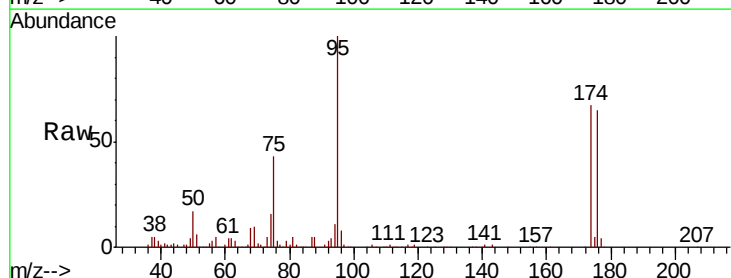
Instrument :
MSVOA_F
ClientSampleId :
SSI-21-TW-2

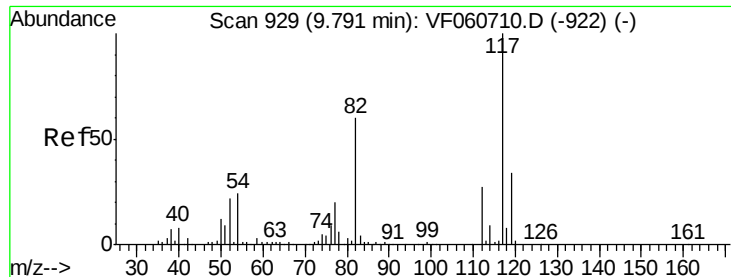
Tot Ion: 43 Resp: 2449
Ion Ratio Lower Upper
43 100
58 21.4 24.9 74.7#



#62
4-Bromofluorobenzene
Concen: 57.528 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060789.D
Acq: 19 Nov 2018 21:27

Tgt Ion: 95 Resp: 130096
Ion Ratio Lower Upper
95 100
174 67.3 0.0 121.6
176 65.0 0.0 115.2

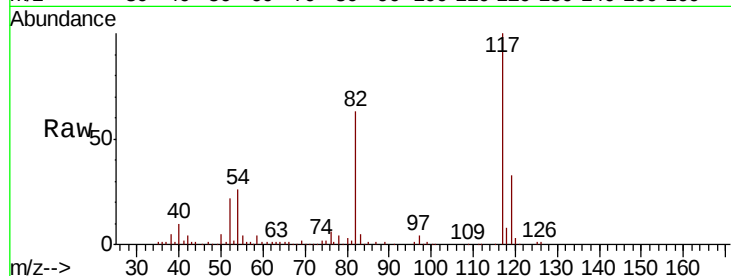




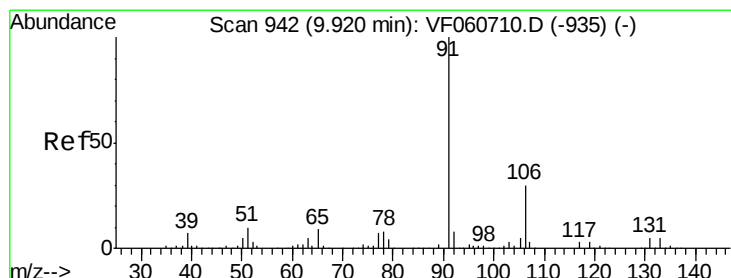
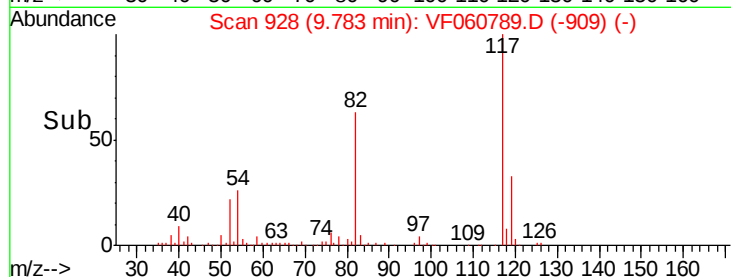
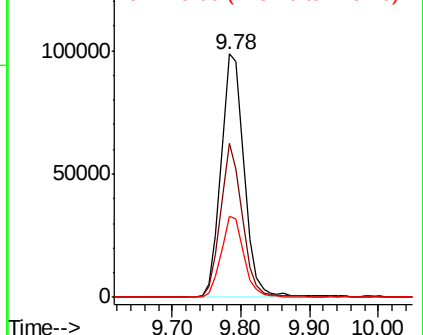
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF060789.D
Acq: 19 Nov 2018 21:27

Instrument :
MSVOA_F
ClientSampleId :
SSI-21-TW-2

Tot Ion:117 Resp: 231694
Ion Ratio Lower Upper
117 100
82 63.4 47.9 71.9
119 33.2 26.8 40.2

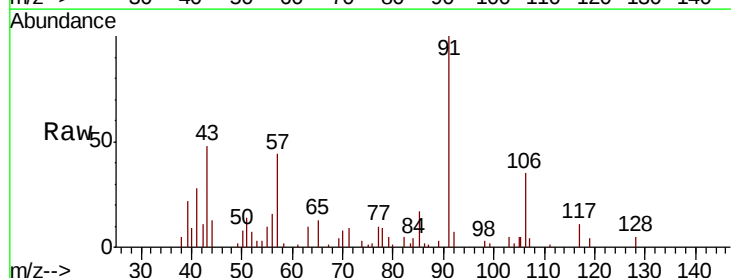


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

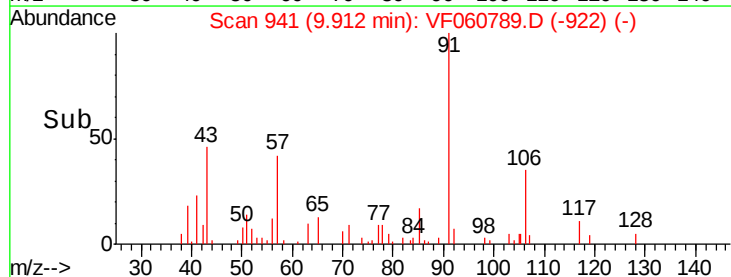
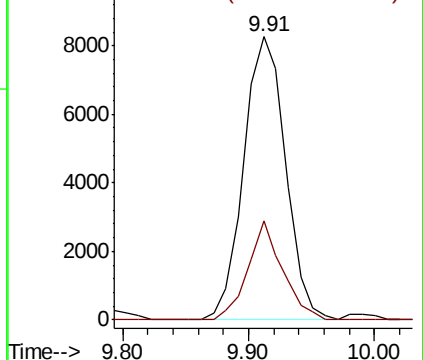


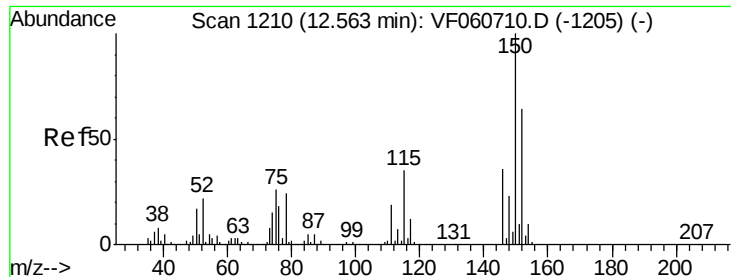
#67
Ethyl Benzene
Concen: 2.164 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060789.D
Acq: 19 Nov 2018 21:27

Tgt Ion: 91 Resp: 19069
Ion Ratio Lower Upper
91 100
106 34.8 23.9 35.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

SSI-21-TW-2

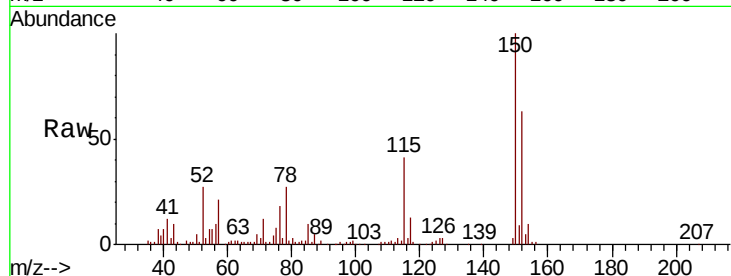
Tot Ion:152 Resp: 119840

Ion Ratio Lower Upper

152 100

115 64.8 27.9 83.7

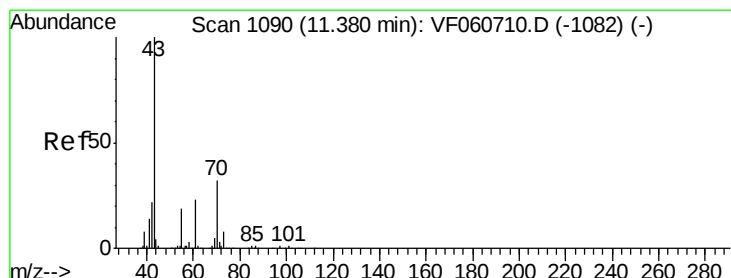
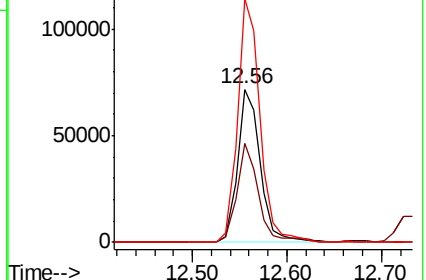
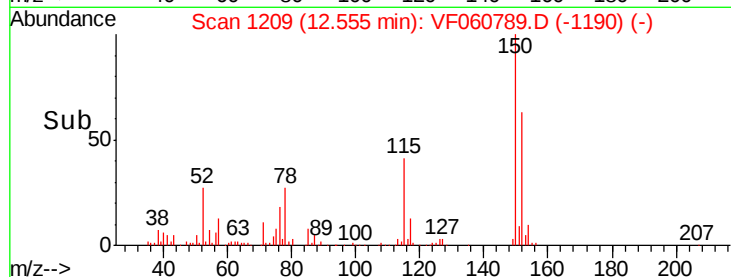
150 159.1 0.0 316.4



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 8.789 ug/l

RT: 11.28 min Scan# 1080

Delta R.T. -0.10 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Tgt Ion: 43 Resp: 19300

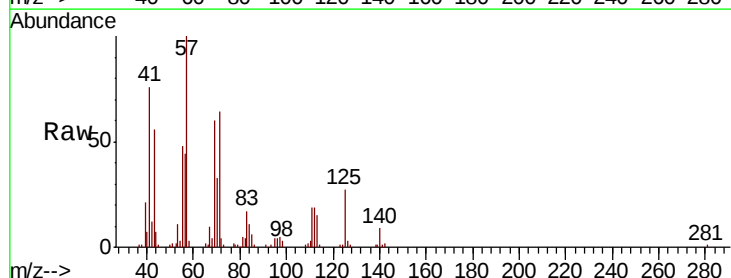
Ion Ratio Lower Upper

43 100

70 59.0 25.5 38.3#

55 86.4 14.9 22.3#

61 0.0 18.6 27.8#

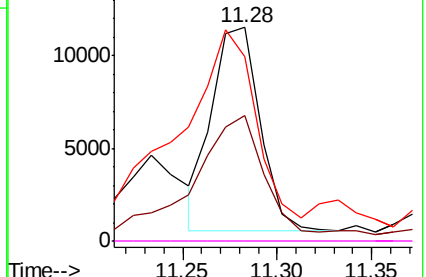
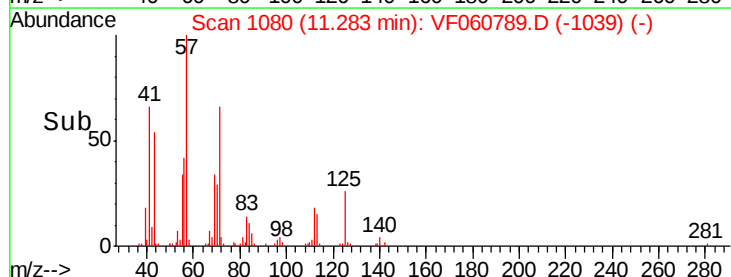


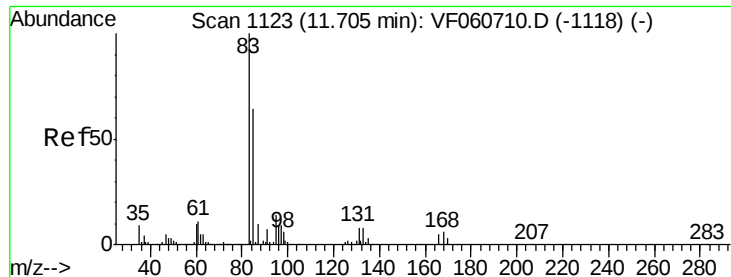
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 6.828 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

SSI-21-TW-2

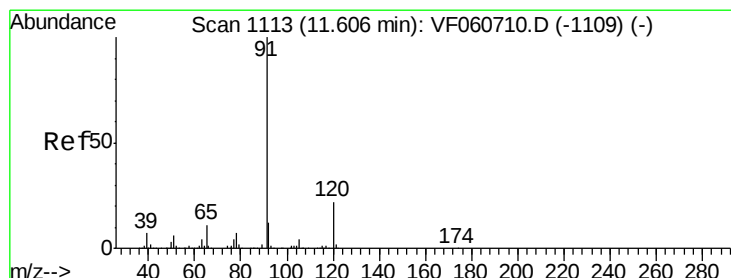
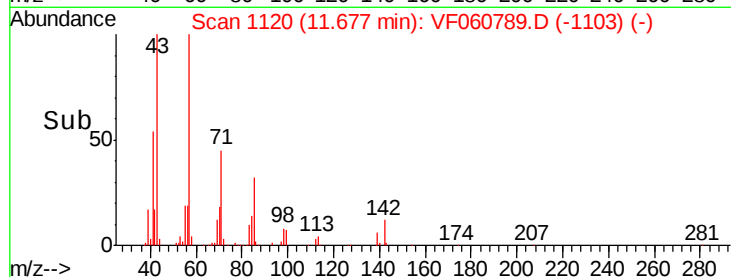
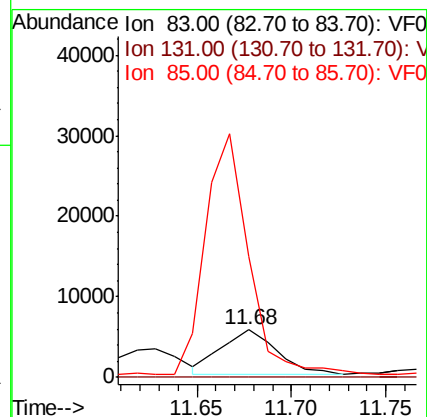
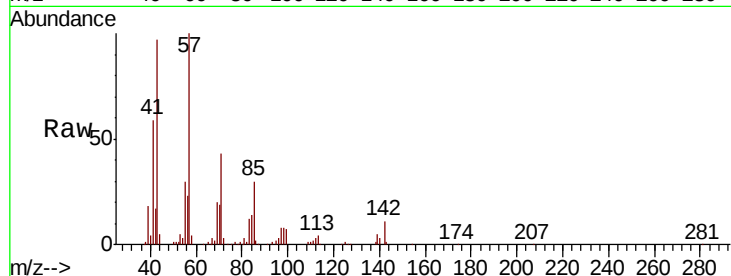
Tot Ion: 83 Resp: 10889

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

85 254.6 32.0 96.2#



#78

n-propylbenzene

Concen: 1.473 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF060789.D

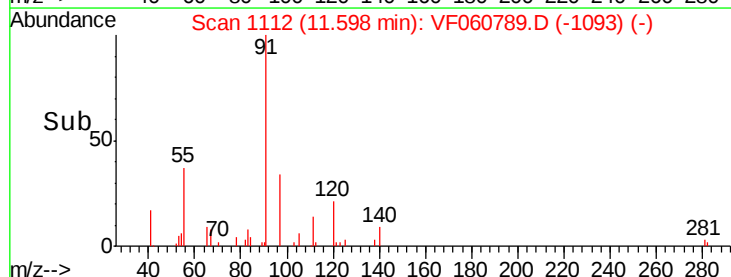
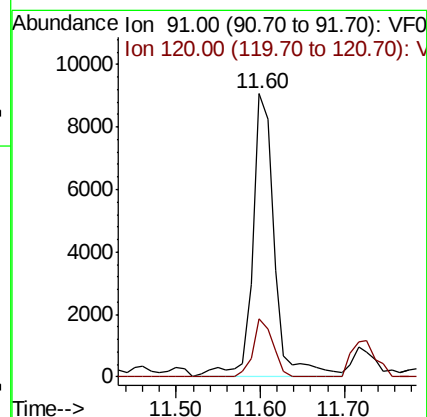
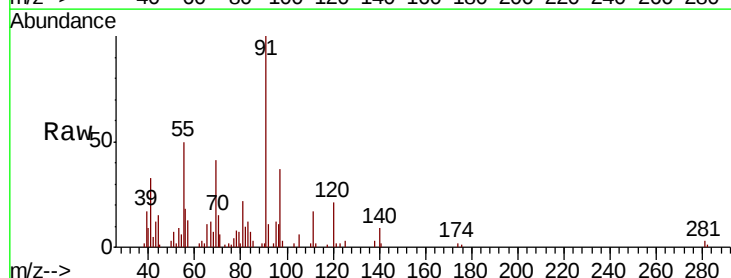
Acq: 19 Nov 2018 21:27

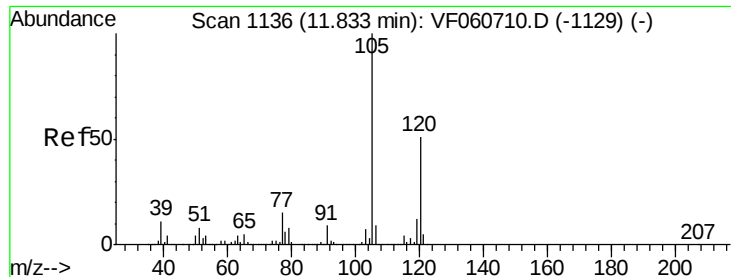
Tgt Ion: 91 Resp: 16571

Ion Ratio Lower Upper

91 100

120 20.6 11.2 33.5

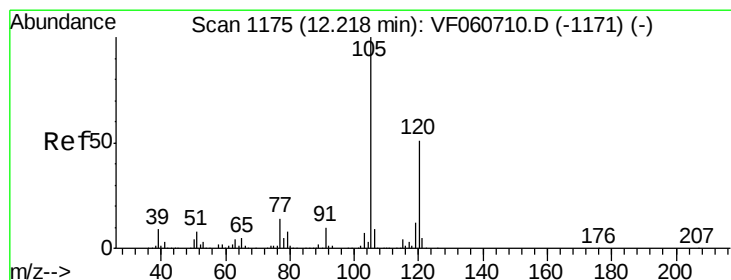
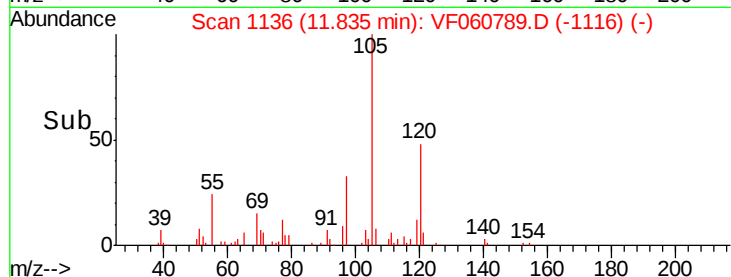
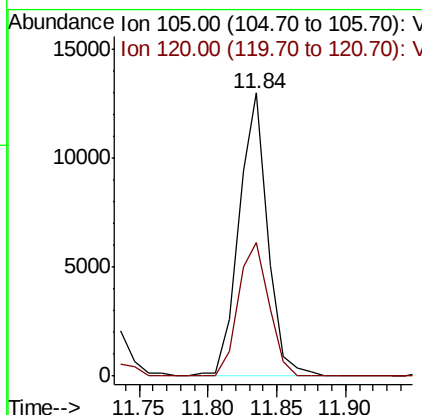
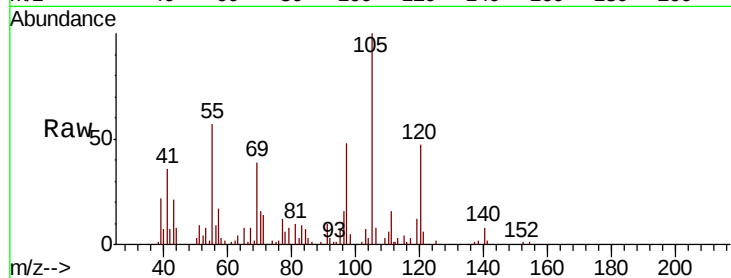




#80
 1,3,5-Trimethylbenzene
 Concen: 2.455 ug/l
 RT: 11.84 min Scan# 1136
 Delta R.T. 0.00 min
 Lab File: VF060789.D
 Acq: 19 Nov 2018 21:27

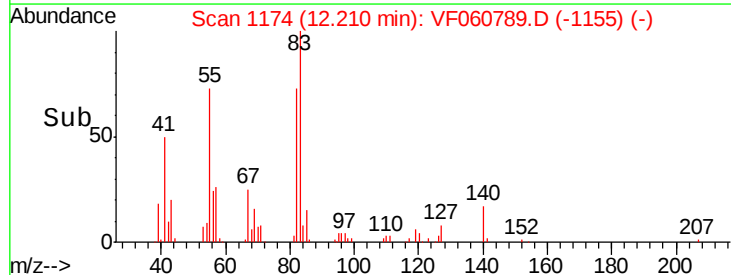
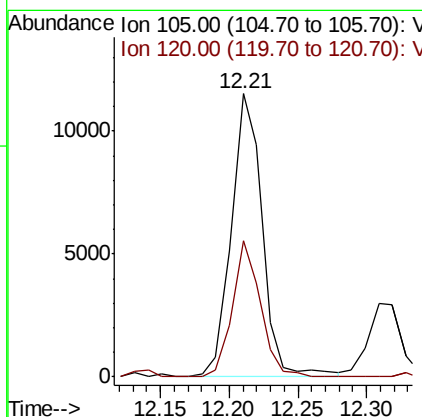
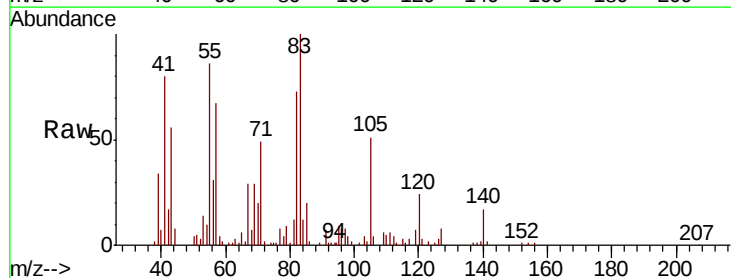
Instrument :
 MSVOA_F
 ClientSampled :
 SSI-21-TW-2

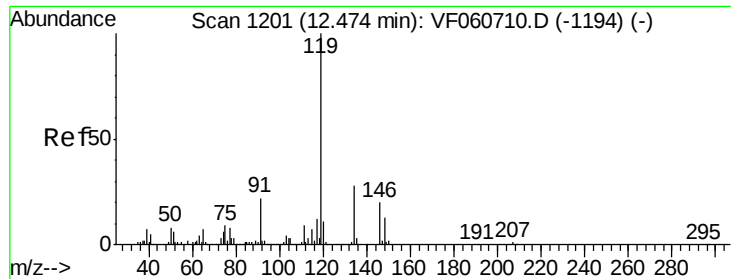
Tot Ion:105 Resp: 18803
 Ion Ratio Lower Upper
 105 100
 120 47.2 25.6 76.8



#84
 1,2,4-Trimethylbenzene
 Concen: 2.283 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF060789.D
 Acq: 19 Nov 2018 21:27

Tgt Ion:105 Resp: 18079
 Ion Ratio Lower Upper
 105 100
 120 48.0 25.5 76.5

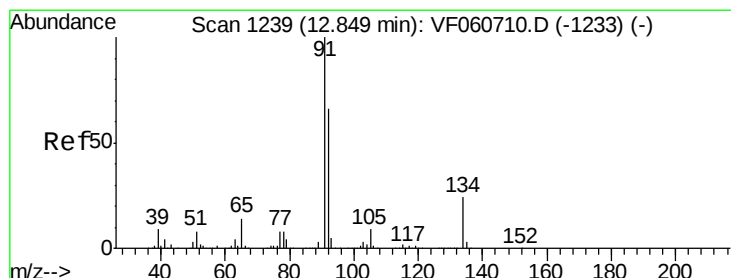
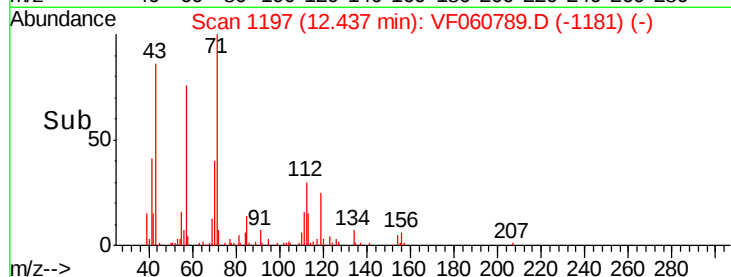
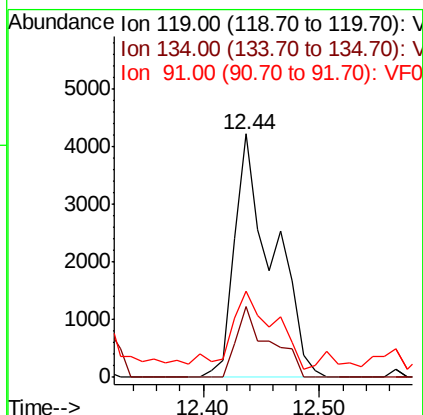
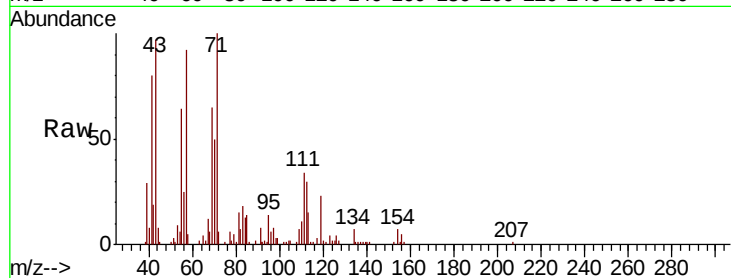




#86
p-Isopropyltoluene
Concen: 1.039 ug/l
RT: 12.44 min Scan# 1197
Delta R.T. -0.04 min
Lab File: VF060789.D
Acq: 19 Nov 2018 21:27

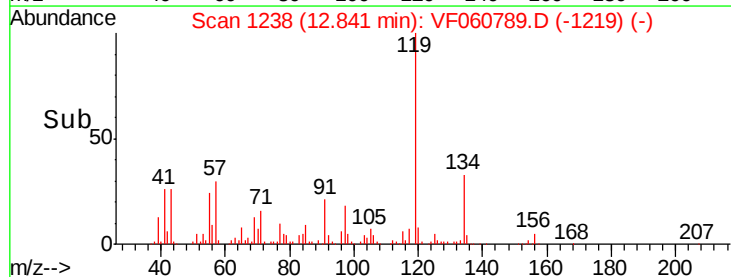
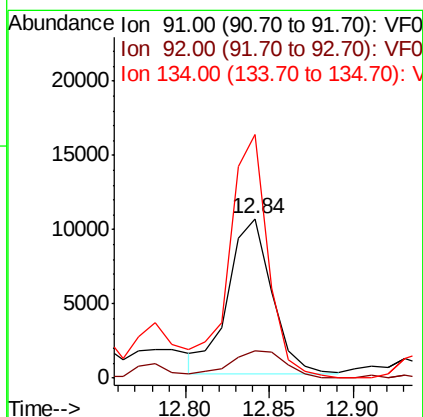
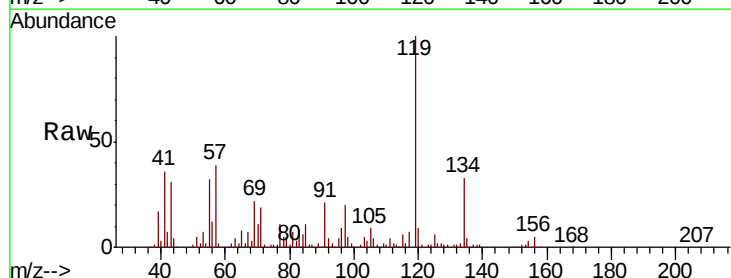
Instrument :
MSVOA_F
ClientSampled :
SSI-21-TW-2

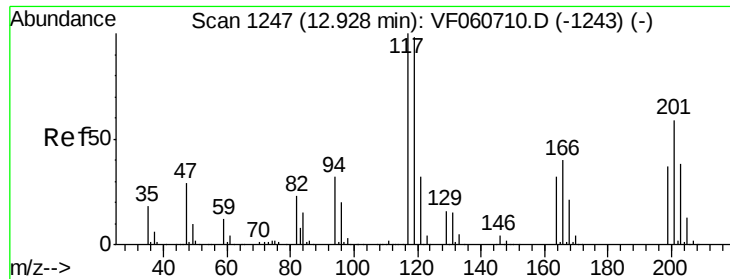
Tot Ion:119 Resp: 9576
Ion Ratio Lower Upper
119 100
134 28.9 13.9 41.7
91 35.3 11.3 33.9#



#89
n-Butylbenzene
Concen: 2.035 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF060789.D
Acq: 19 Nov 2018 21:27

Tgt Ion: 91 Resp: 19135
Ion Ratio Lower Upper
91 100
92 17.5 33.1 99.2#
134 152.8 11.9 35.9#





#90

Hexachloroethane

Concen: 2.894 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.09 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleID :

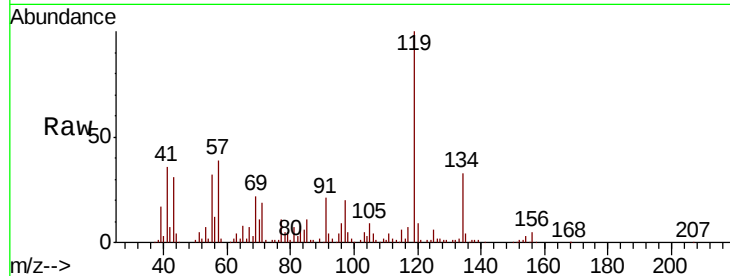
SSI-21-TW-2

Tot Ion:117 Resp: 6522

Ion Ratio Lower Upper

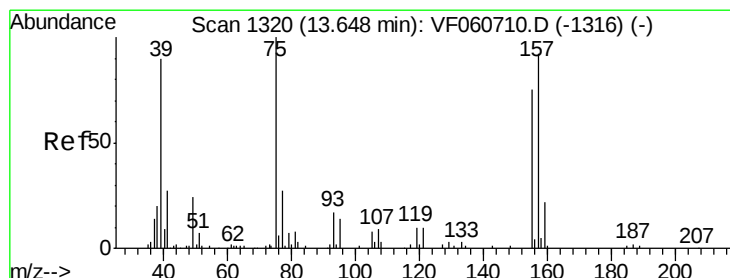
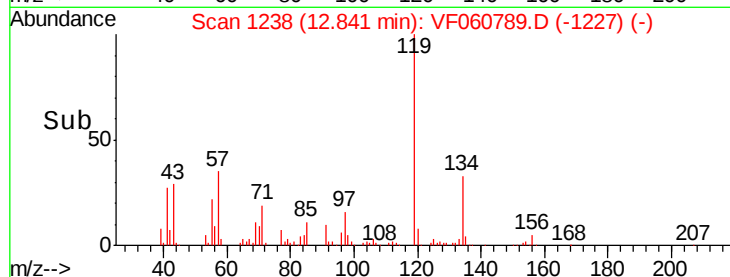
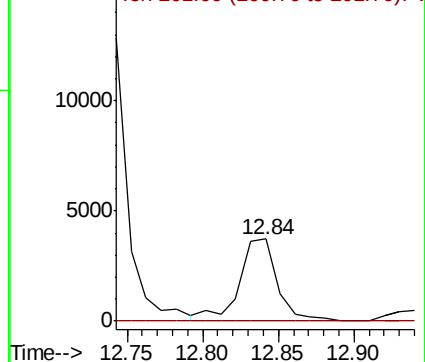
117 100

201 0.0 29.4 88.3#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.398 ug/l

RT: 13.62 min Scan# 1317

Delta R.T. -0.03 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

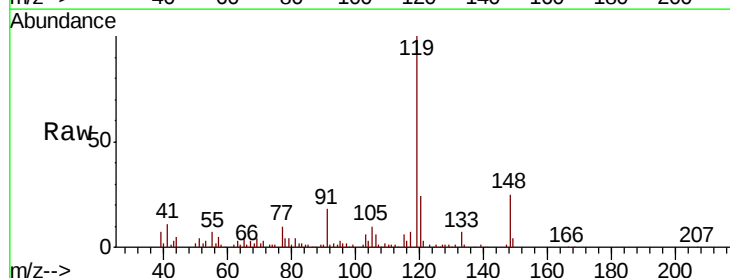
Tgt Ion: 75 Resp: 419

Ion Ratio Lower Upper

75 100

155 0.0 37.4 112.2#

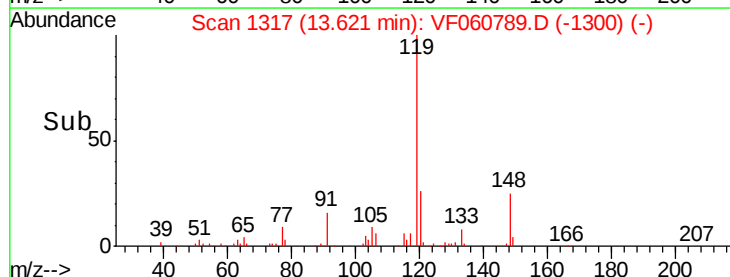
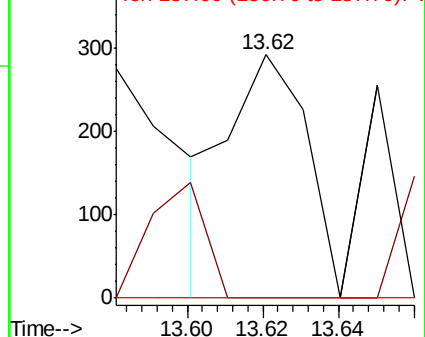
157 0.0 46.0 138.0#

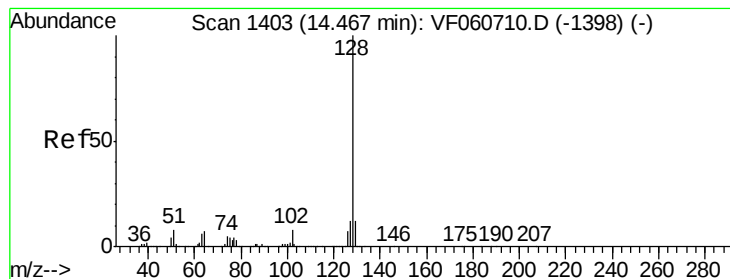


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#95

Naphthalene

Concen: 11.430 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF060789.D

Acq: 19 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

SSI-21-TW-2

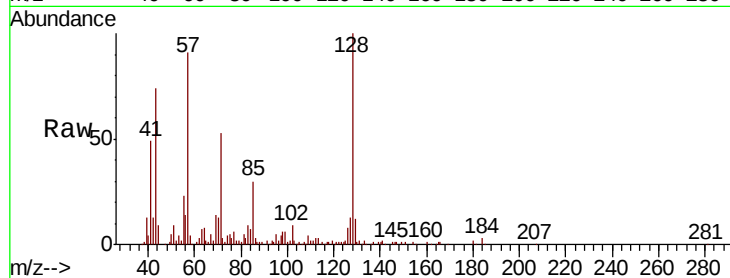
Tot Ion:128 Resp: 56399

Ion Ratio Lower Upper

128 100

127 12.6 9.8 14.6

129 12.0 9.3 13.9



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

