

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060231.D
 Acq On : 10 Sep 2018 13:35
 Operator : VA/AP
 Sample : J4803-02RE
 Misc : 5.16g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E6

Quant Time: Sep 11 07:11:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 07 10:44:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	193694	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	260449	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	286702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	183526	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	107786	31.85	ug/l	0.00
Spiked Amount			Recovery	=	63.70%	
35) Dibromofluoromethane	4.29	113	96944	37.99	ug/l	0.00
Spiked Amount			Recovery	=	75.98%	
50) Toluene-d8	7.71	98	241675	37.95	ug/l	0.00
Spiked Amount			Recovery	=	75.90%	
62) 4-Bromofluorobenzene	11.51	95	133425	37.14	ug/l	0.00
Spiked Amount			Recovery	=	74.28%	

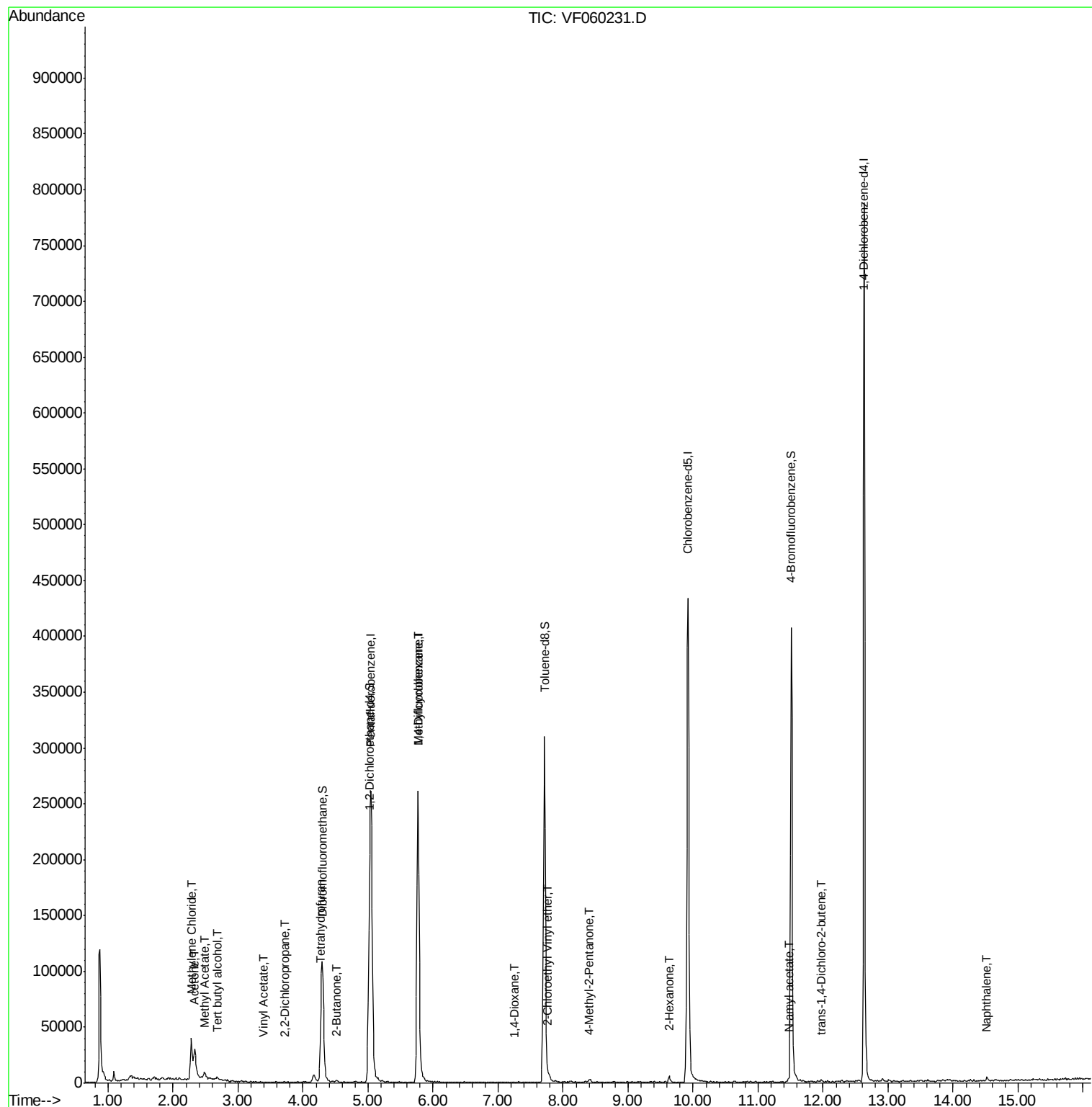
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.69	59	979	17.22	ug/l #	75
13) Acrolein	2.09	56	342	Below Cal	#	73
16) Acetone	2.33	43	37474	48.53	ug/l #	92
18) Methyl Acetate	2.48	43	2045	1.79	ug/l #	64
20) Methylene Chloride	2.28	84	17663	2.17	ug/l	90
23) Vinyl Acetate	3.38	43	92	22.84	ug/l #	82
25) 2-Butanone	4.51	43	1506	1.58	ug/l #	59
26) 2,2-Dichloropropane	3.72	77	76	2.05	ug/l #	64
29) Tetrahydrofuran	4.26	42	428	1.36	ug/l #	52
37) Ethyl Acetate	4.27	43	544	Below Cal	#	80
39) Methylcyclohexane	5.76	83	3917	1.53	ug/l #	37
49) 1,4-Dioxane	7.25	88	67	3.22	ug/l #	15
51) 4-Methyl-2-Pentanone	8.40	43	2689	1.70	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.77	63	692	3.62	ug/l	100
59) 2-Hexanone	9.64	43	5384	3.39	ug/l	95
74) N-amyl acetate	11.47	43	1615	5.37	ug/l #	89
81) trans-1,4-Dichloro-2-buten	11.97	75	182	2.91	ug/l #	9
95) Naphthalene	14.52	128	2724	2.98	ug/l #	90

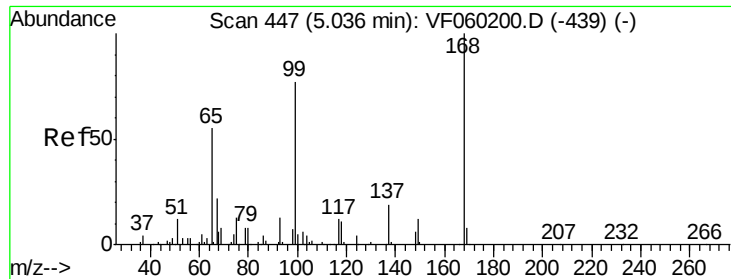
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 07 10:44:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 447

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Instrument :

MSVOA_F

ClientSampleId :

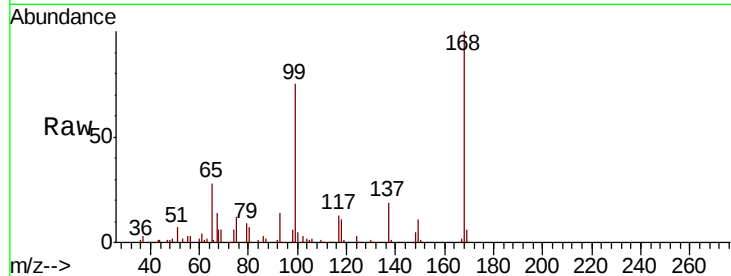
EP1-Q2-E6

Tot Ion:168 Resp: 193694

Ion Ratio Lower Upper

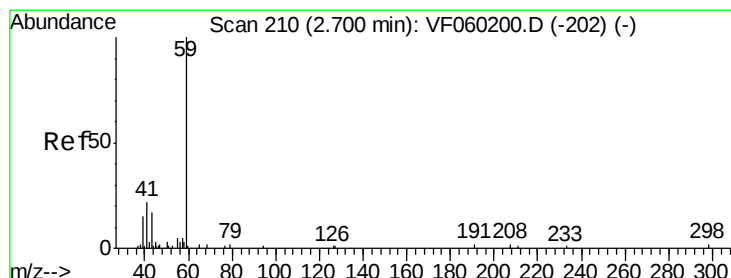
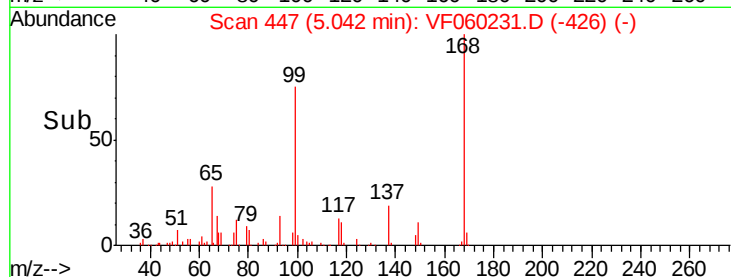
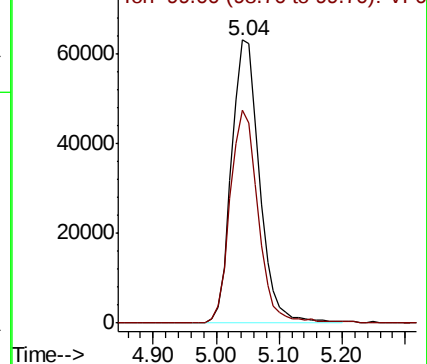
168 100

99 75.3 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 17.22 ug/l

RT: 2.69 min Scan# 208

Delta R.T. -0.01 min

Lab File: VF060231.D

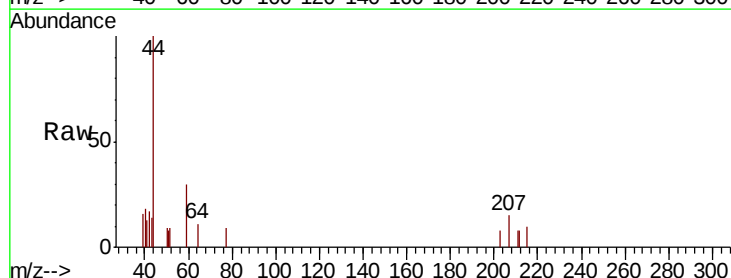
Acq: 10 Sep 2018 13:35

Tgt Ion: 59 Resp: 979

Ion Ratio Lower Upper

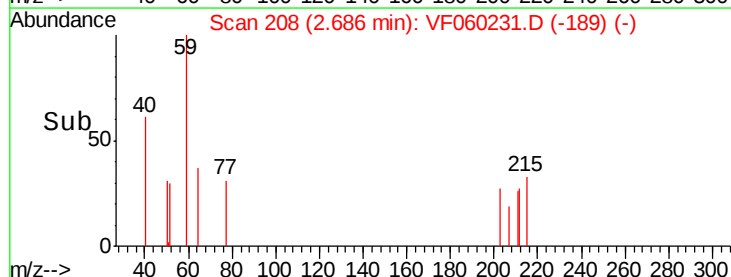
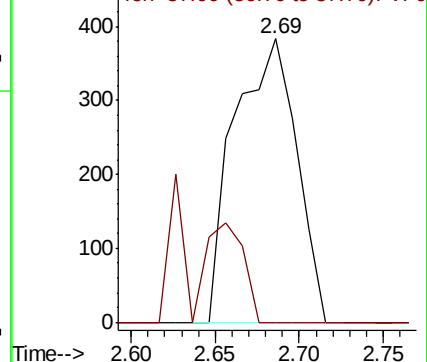
59 100

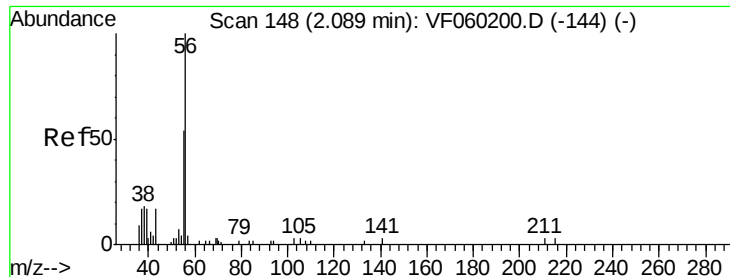
57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.09 min Scan# 148

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

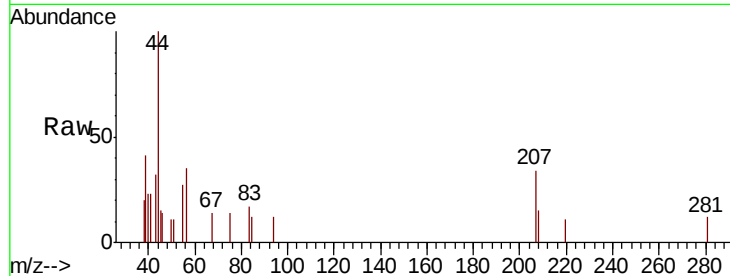
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E6

Tot Ion: 56 Resp: 342

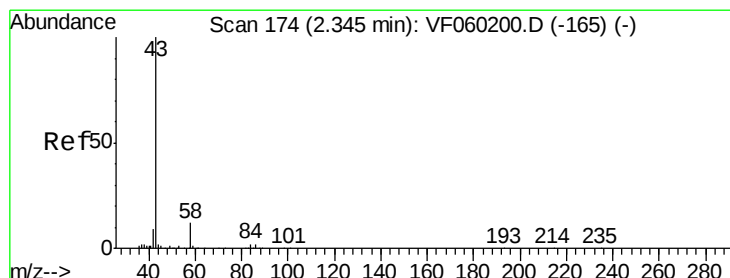
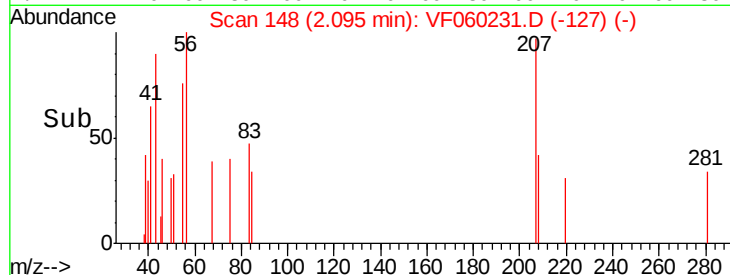
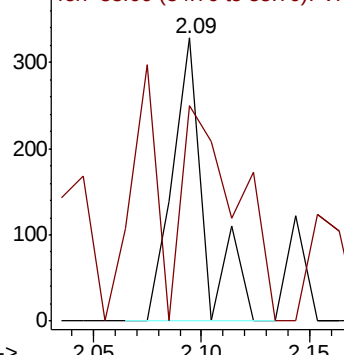
Ion Ratio Lower Upper

56 100

55 76.2 45.1 67.7#



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 48.53 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060231.D

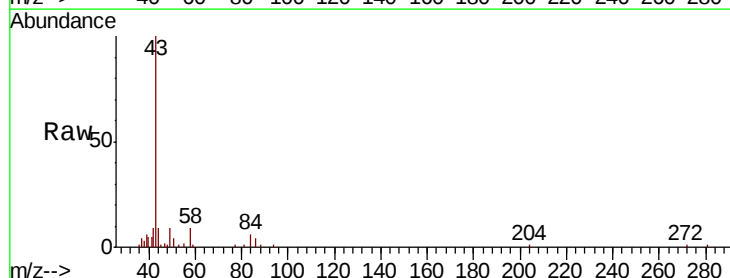
Acq: 10 Sep 2018 13:35

Tgt Ion: 43 Resp: 37474

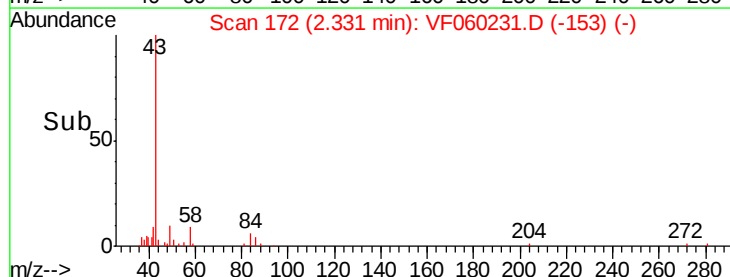
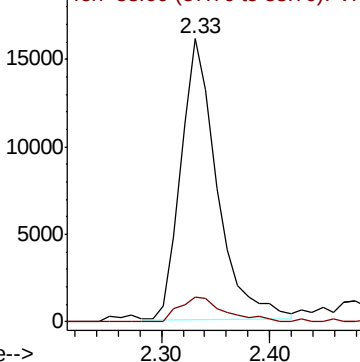
Ion Ratio Lower Upper

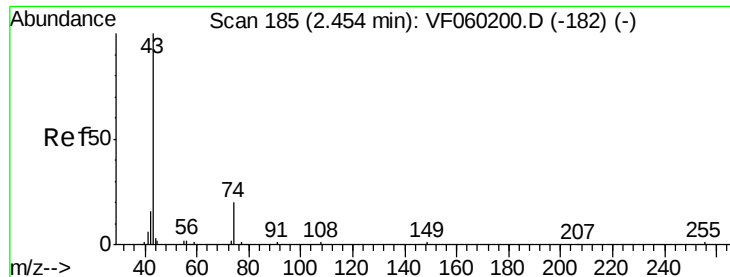
43 100

58 8.9 9.7 14.5#



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

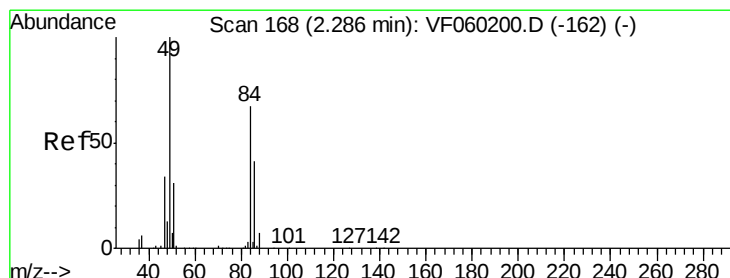
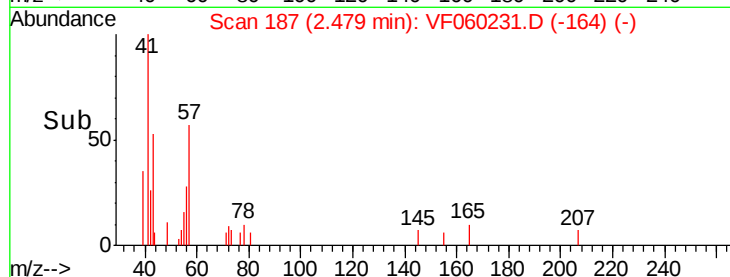
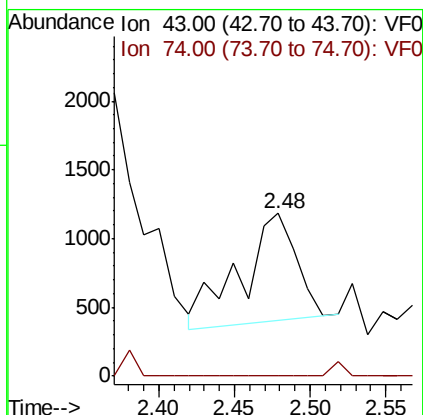
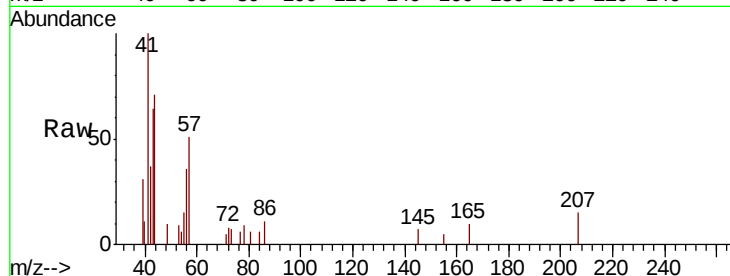




#18
Methvl Acetate
Concen: 1.79 ug/l
RT: 2.48 min Scan# 187
Delta R.T. 0.03 min
Lab File: VF060231.D
Acq: 10 Sep 2018 13:35

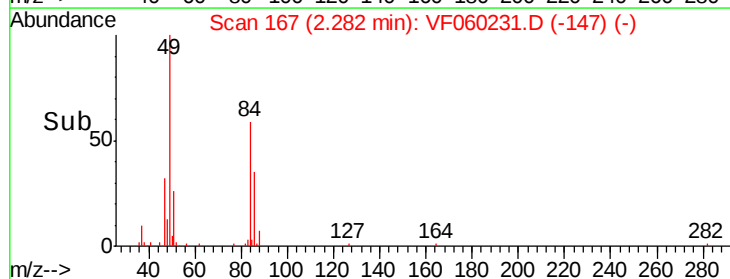
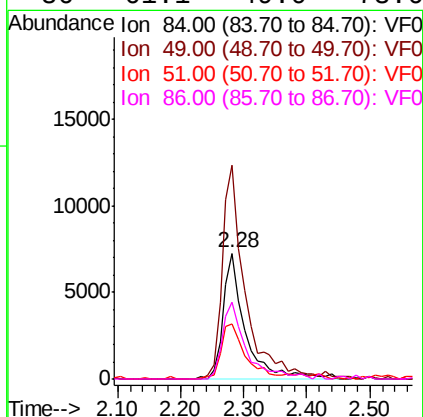
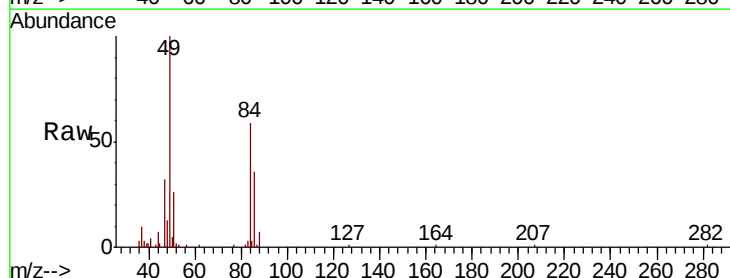
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E6

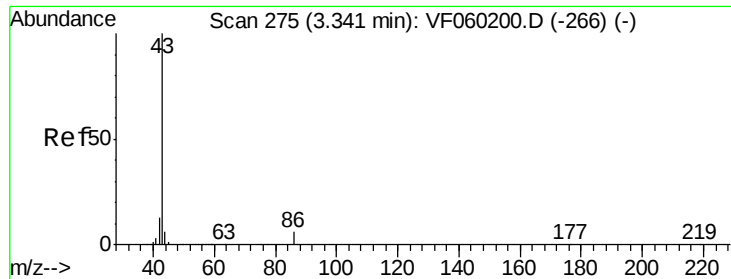
Tot Ion: 43 Resp: 2045
Ion Ratio Lower Upper
43 100
74 0.0 11.9 17.9#



#20
Methylene Chloride
Concen: 2.17 ug/l
RT: 2.28 min Scan# 167
Delta R.T. -0.00 min
Lab File: VF060231.D
Acq: 10 Sep 2018 13:35

Tgt Ion: 84 Resp: 17663
Ion Ratio Lower Upper
84 100
49 170.3 120.1 180.1
51 44.0 37.0 55.6
86 61.1 49.0 73.6

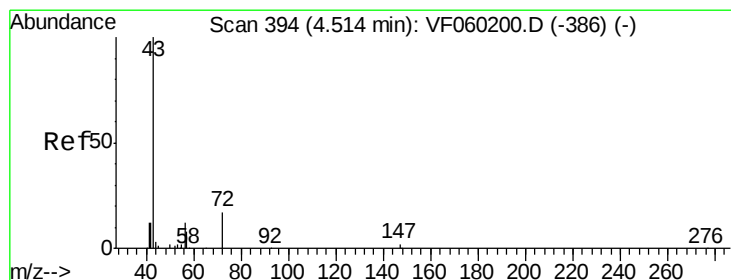
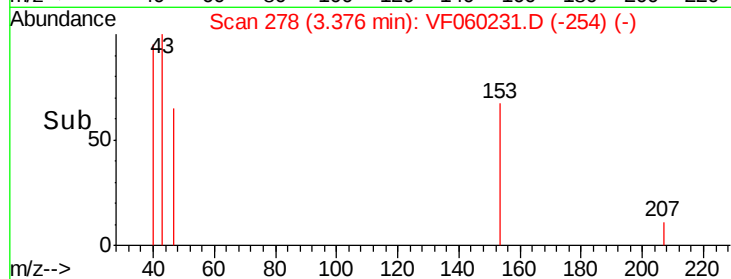
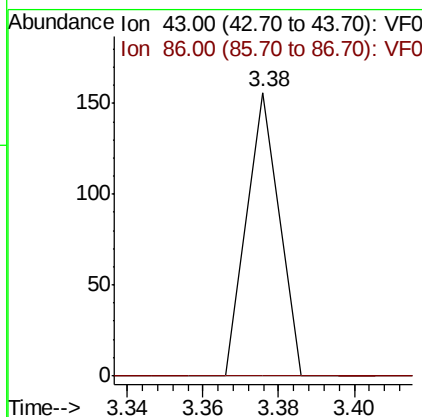
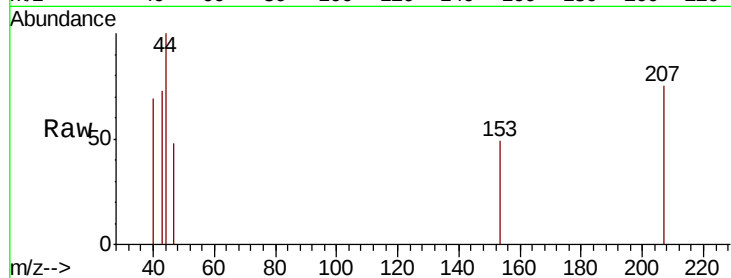




#23
 Vinyl Acetate
 Concen: 22.84 ug/l
 RT: 3.38 min Scan# 278
 Delta R.T. 0.04 min
 Lab File: VF060231.D
 Acq: 10 Sep 2018 13:35

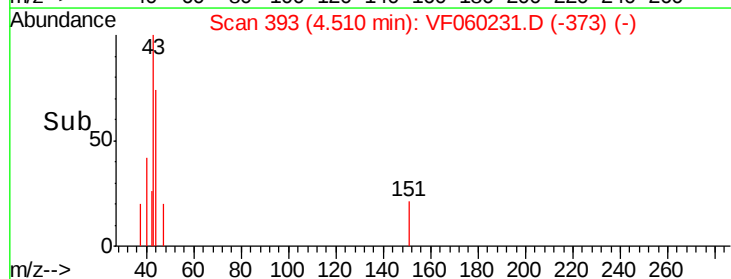
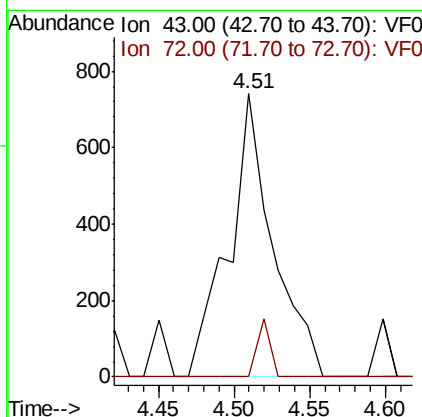
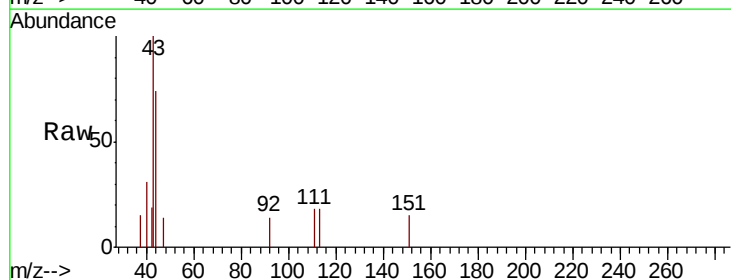
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E6

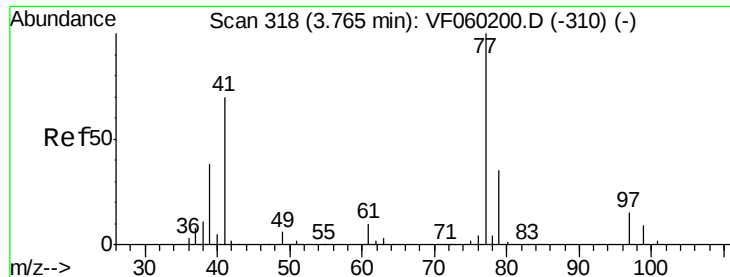
Tot Ion: 43 Resp: 92
 Ion Ratio Lower Upper
 43 100
 86 0.0 4.8 7.2#



#25
 2-Butanone
 Concen: 1.58 ug/l
 RT: 4.51 min Scan# 393
 Delta R.T. -0.00 min
 Lab File: VF060231.D
 Acq: 10 Sep 2018 13:35

Tgt Ion: 43 Resp: 1506
 Ion Ratio Lower Upper
 43 100
 72 0.0 14.8 22.2#





#26

2,2-Dichloropropane

Concen: 2.05 ug/l

RT: 3.72 min Scan# 313

Delta R.T. -0.04 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Instrument :

MSVOA_F

ClientSampled :

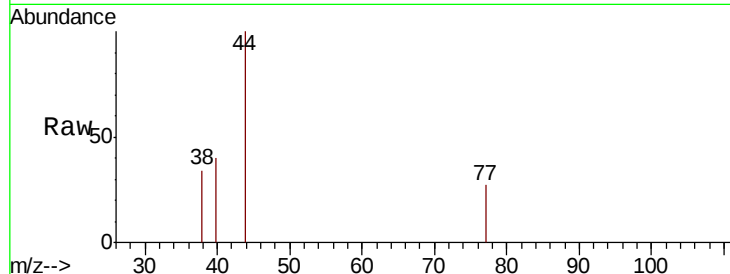
EP1-Q2-E6

Tot Ion: 77 Resp: 76

Ion Ratio Lower Upper

77 100

97 0.0 7.5 22.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

150

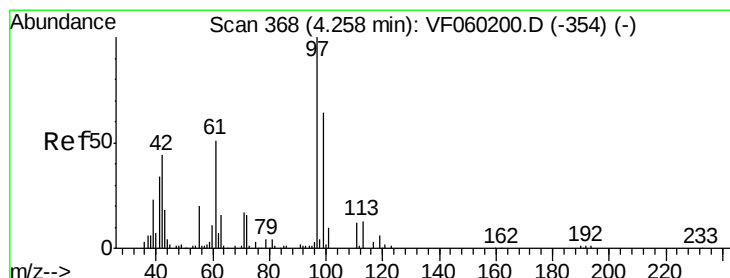
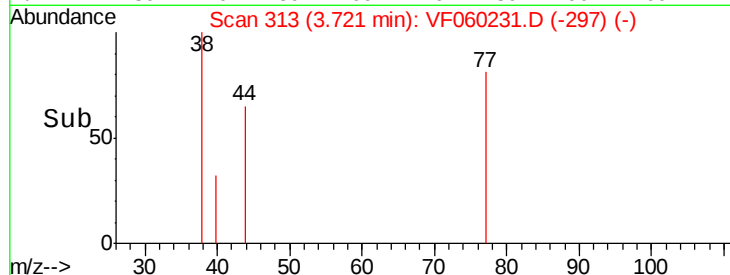
100

50

0

3.70 3.72 3.74

Time-->



#29

Tetrahydrofuran

Concen: 1.36 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

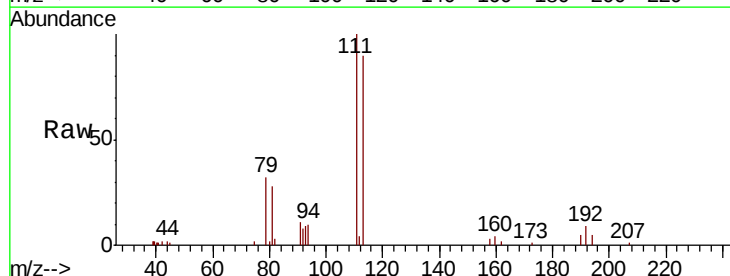
Tgt Ion: 42 Resp: 428

Ion Ratio Lower Upper

42 100

72 14.0 27.4 41.0#

71 0.0 28.5 42.7#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

300

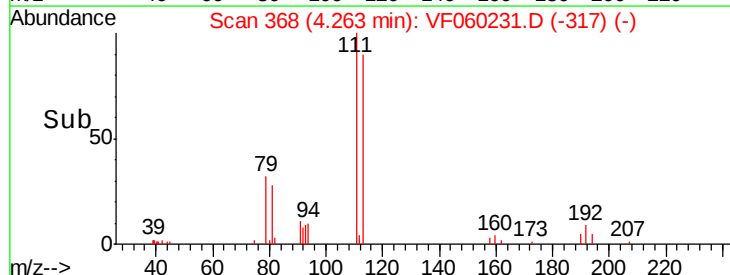
200

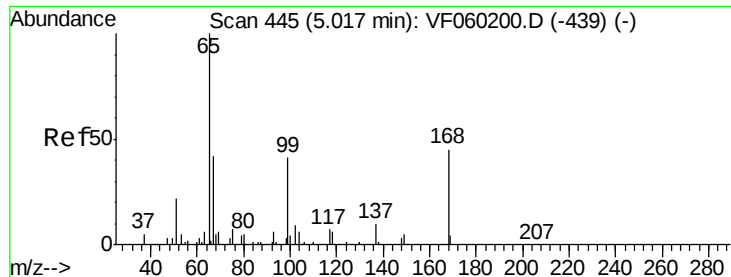
100

0

4.20 4.25

Time-->





#33

1,2-Dichloroethane-d4

Concen: 31.85 ug/l

RT: 5.01 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Instrument :

MSVOA_F

ClientSampleId :

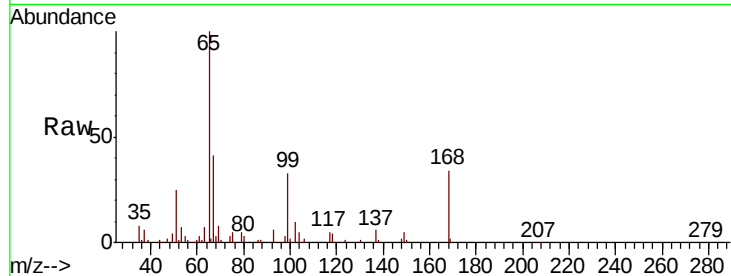
EP1-Q2-E6

Tot Ion: 65 Resp: 107786

Ion Ratio Lower Upper

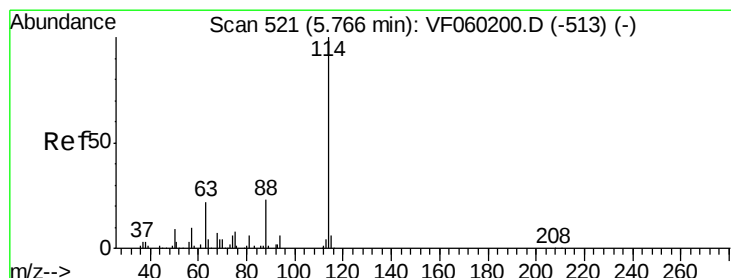
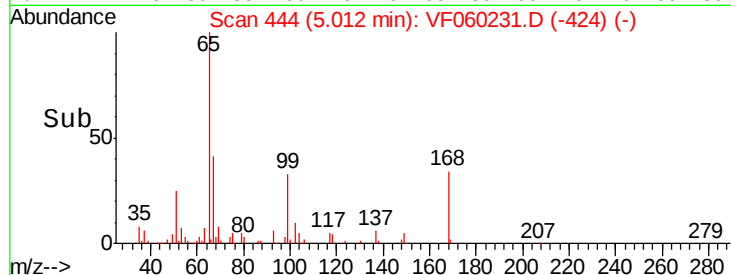
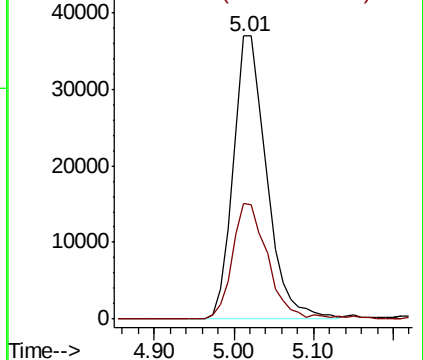
65 100

67 40.9 0.0 87.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.77 min Scan# 521

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

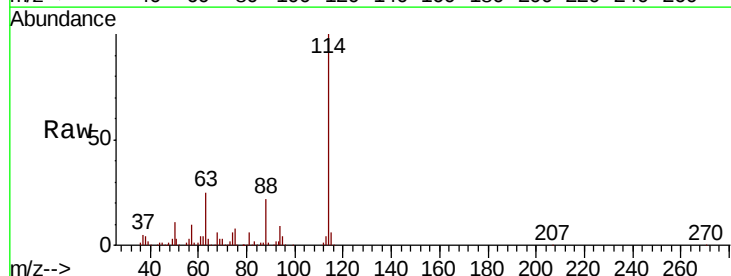
Tgt Ion: 114 Resp: 260449

Ion Ratio Lower Upper

114 100

63 25.2 0.0 45.6

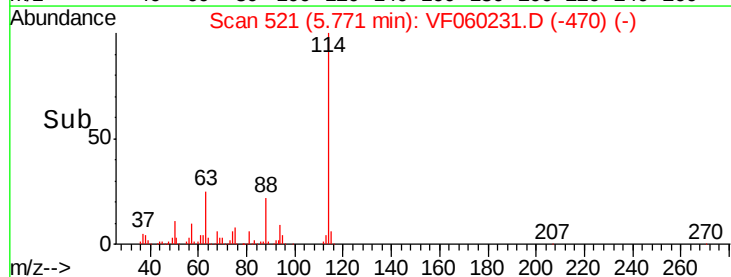
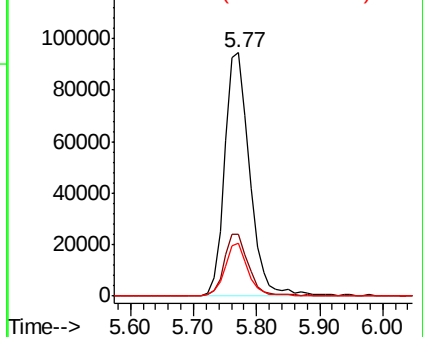
88 22.0 0.0 46.4

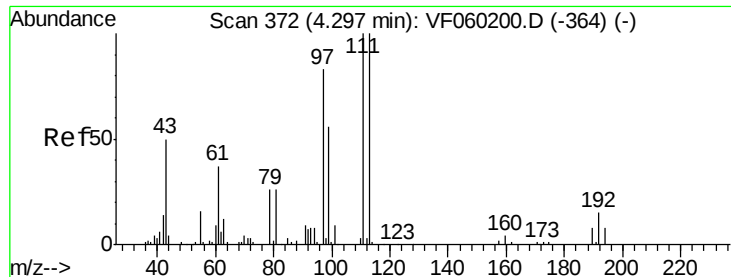


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

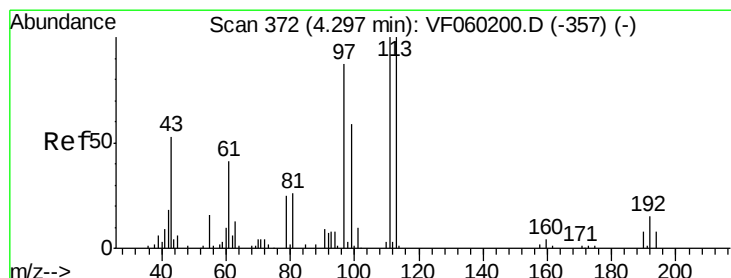
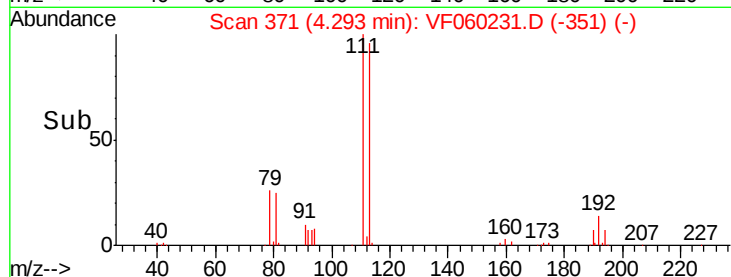
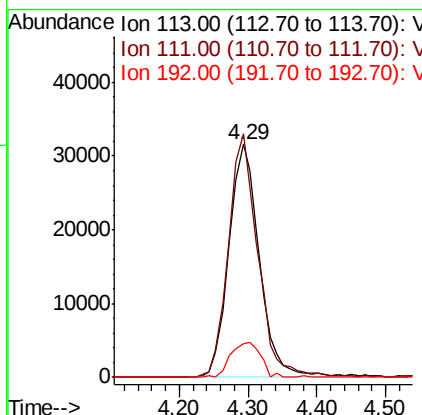
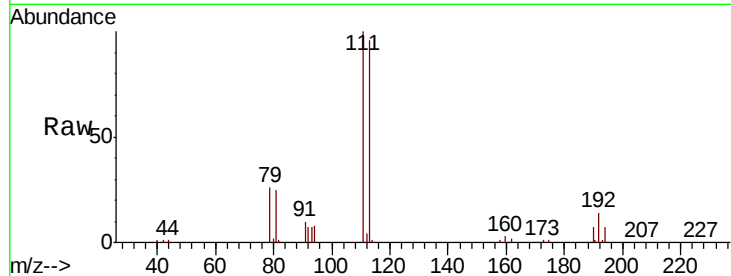




#35
Dibromofluoromethane
Concen: 37.99 ug/l
RT: 4.29 min Scan# 371
Delta R.T. -0.00 min
Lab File: VF060231.D
Acq: 10 Sep 2018 13:35

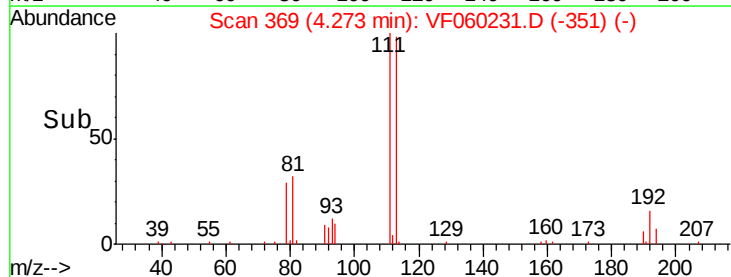
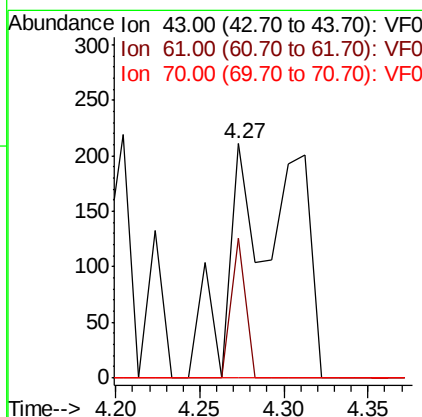
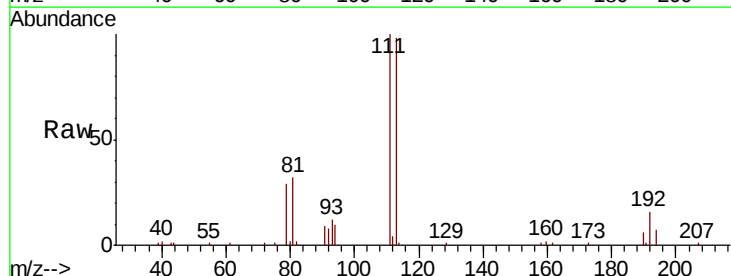
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E6

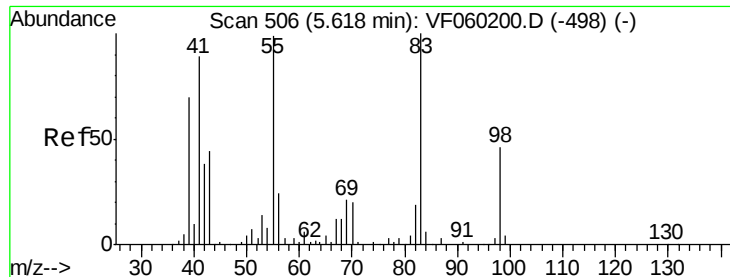
Tot Ion:113 Resp: 96944
Ion Ratio Lower Upper
113 100
111 104.6 80.2 120.2
192 14.7 11.8 17.8



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 369
Delta R.T. -0.02 min
Lab File: VF060231.D
Acq: 10 Sep 2018 13:35

Tgt Ion: 43 Resp: 544
Ion Ratio Lower Upper
43 100
61 59.7 61.6 92.4#
70 0.0 6.9 10.3#





#39

Methylcyclohexane

Concen: 1.53 ug/l

RT: 5.76 min Scan# 520

Delta R.T. 0.14 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Instrument :

MSVOA_F

ClientSampled :

EP1-Q2-E6

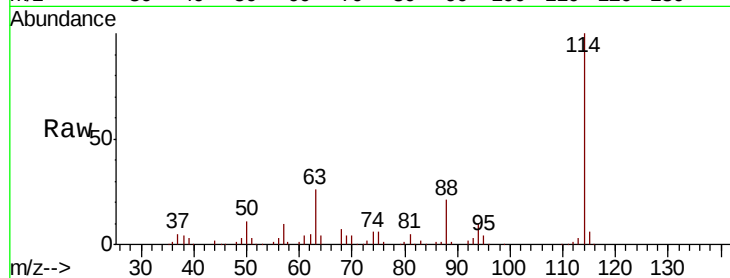
Tot Ion: 83 Resp: 3917

Ion Ratio Lower Upper

83 100

55 39.5 79.0 118.4#

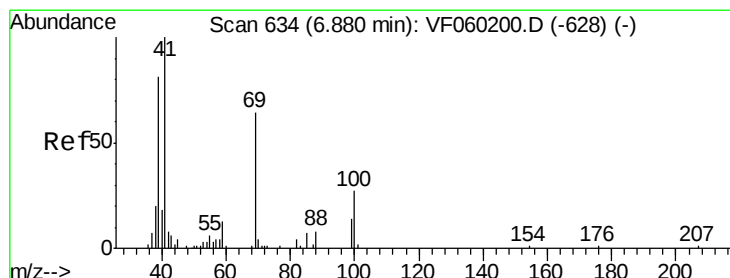
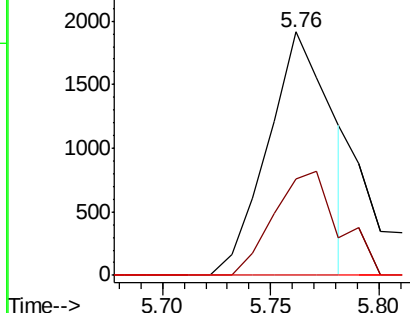
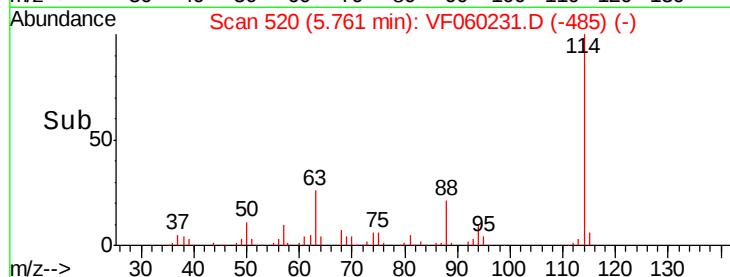
98 0.0 36.7 55.1#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#49

1,4-Dioxane

Concen: 3.22 ug/l

RT: 7.25 min Scan# 671

Delta R.T. 0.37 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

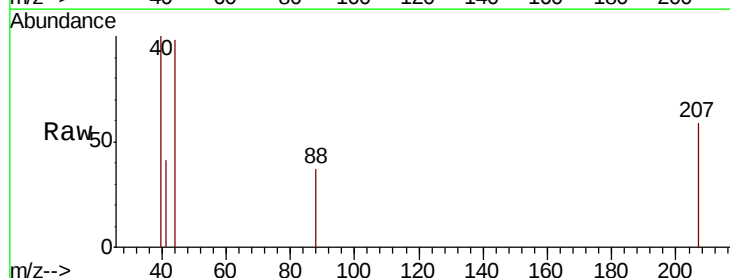
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 0.0 68.1 102.1#

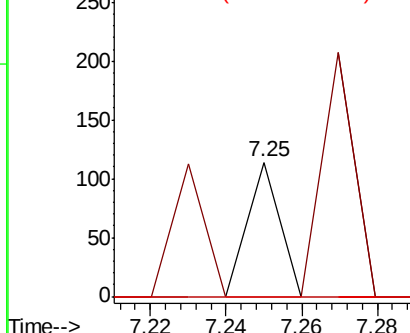
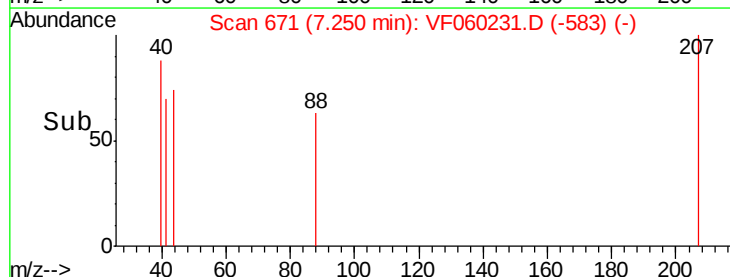
58 0.0 38.1 57.1#

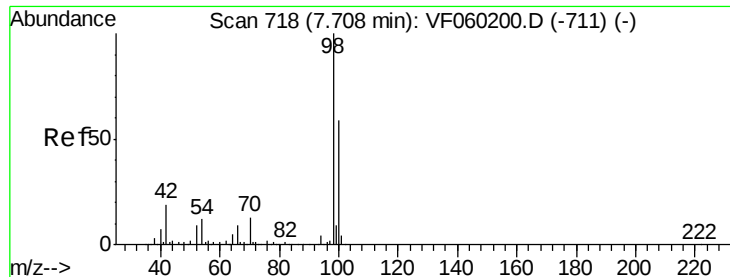


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 37.95 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Instrument :

MSVOA_F

ClientSampleId :

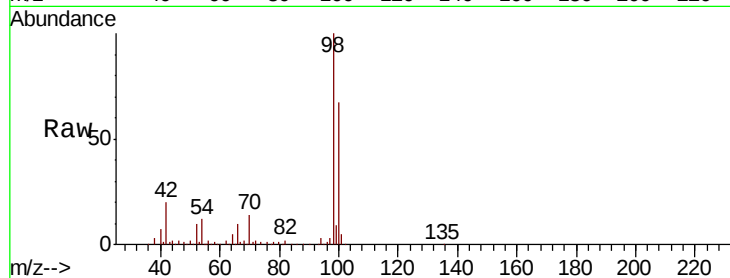
EP1-Q2-E6

Tot Ion: 98 Resp: 241675

Ion Ratio Lower Upper

98 100

100 66.6 47.4 71.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

120000

100000

80000

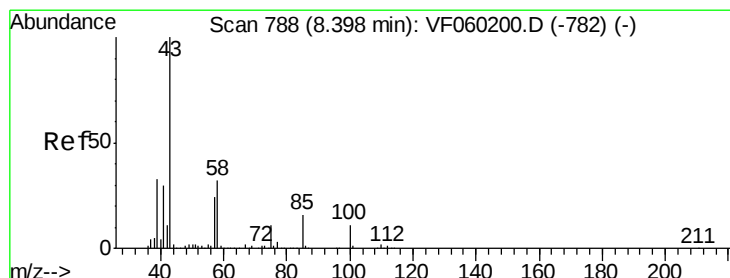
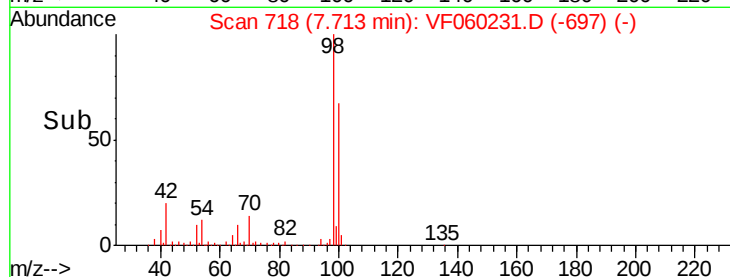
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.70 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.01 min

Lab File: VF060231.D

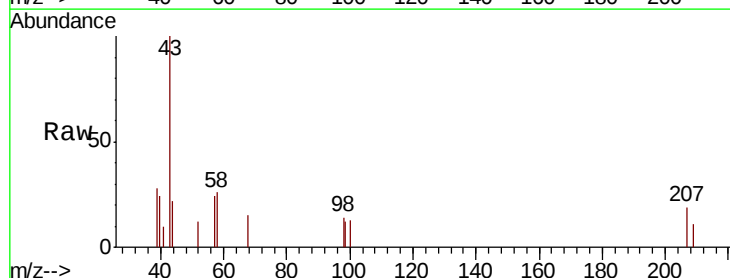
Acq: 10 Sep 2018 13:35

Tgt Ion: 43 Resp: 2689

Ion Ratio Lower Upper

43 100

58 25.8 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

1200

1000

800

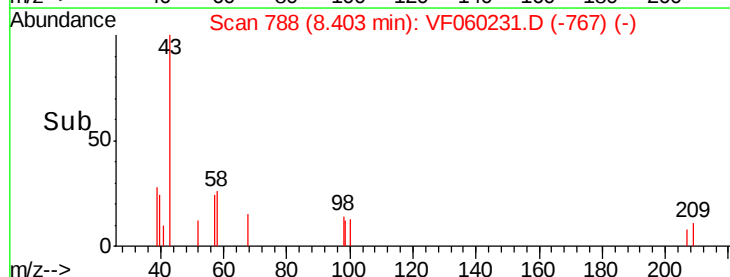
600

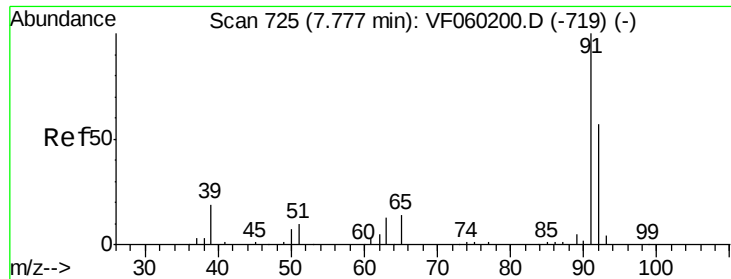
400

200

0

Time-->

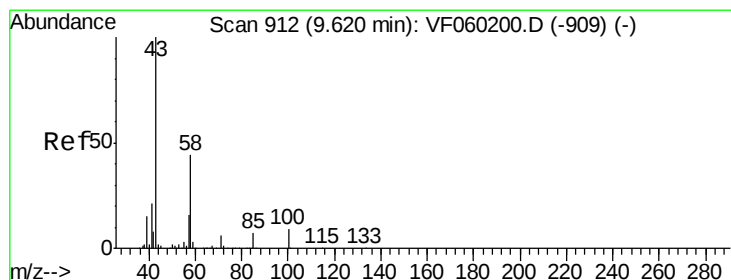
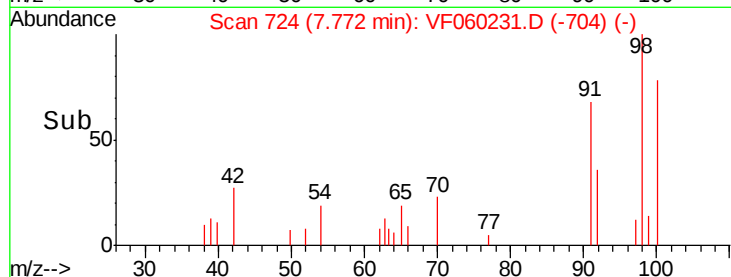
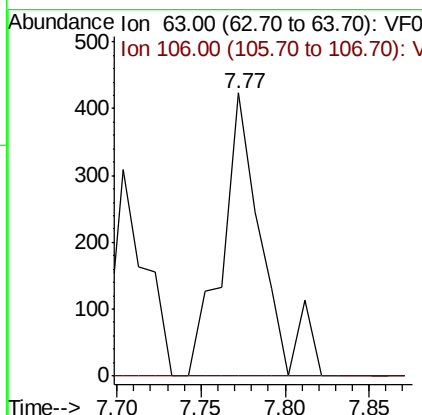
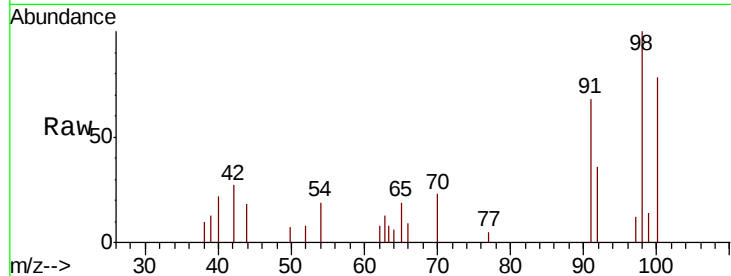




#58
 2-Chloroethyl Vinyl ether
 Concen: 3.62 ug/l
 RT: 7.77 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VF060231.D
 Acq: 10 Sep 2018 13:35

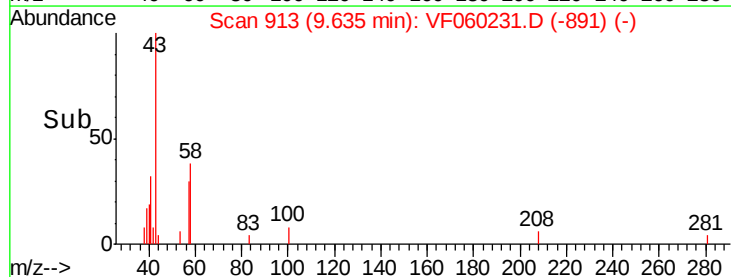
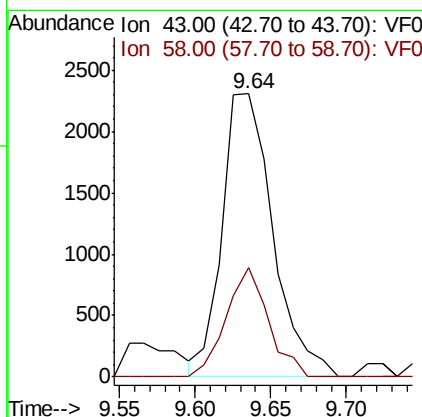
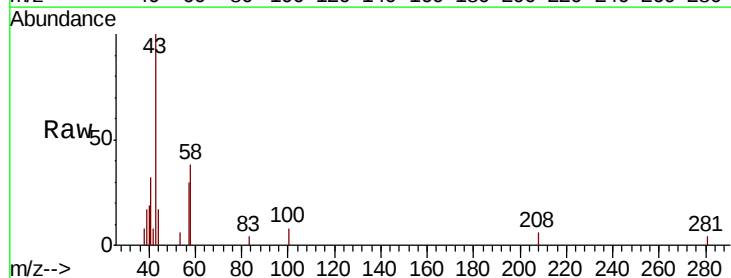
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E6

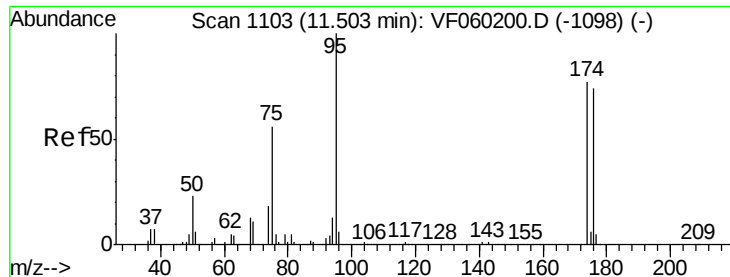
Tot Ion: 63 Resp: 692
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 3.39 ug/l
 RT: 9.64 min Scan# 913
 Delta R.T. 0.02 min
 Lab File: VF060231.D
 Acq: 10 Sep 2018 13:35

Tgt Ion: 43 Resp: 5384
 Ion Ratio Lower Upper
 43 100
 58 38.5 20.8 62.5





#62

4-Bromofluorobenzene

Concen: 37.14 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E6

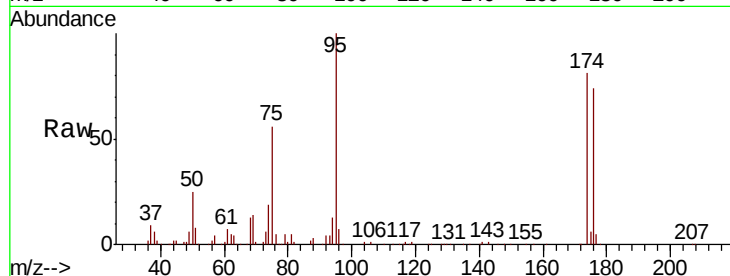
Tot Ion: 95 Resp: 133425

Ion Ratio Lower Upper

95 100

174 80.9 0.0 153.2

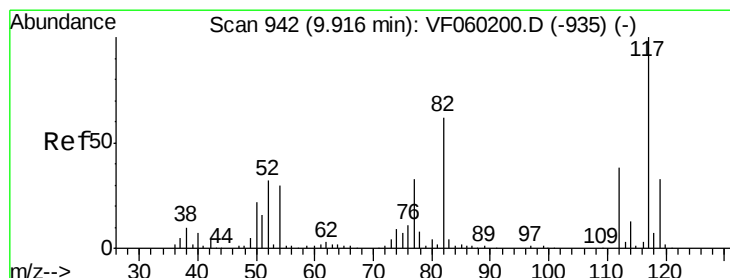
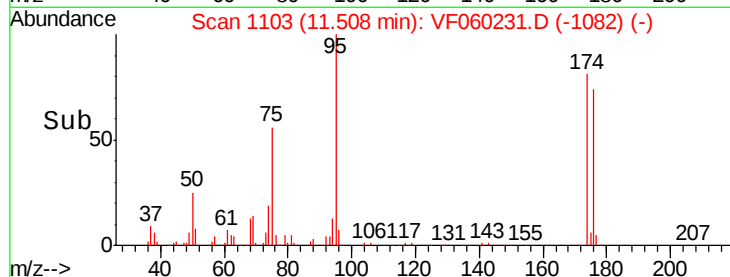
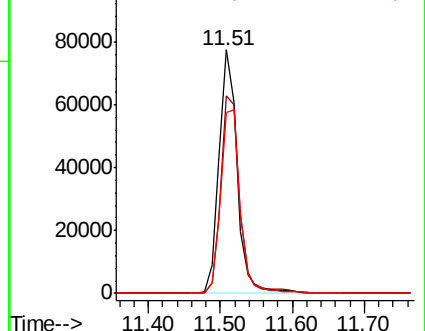
176 74.5 0.0 147.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

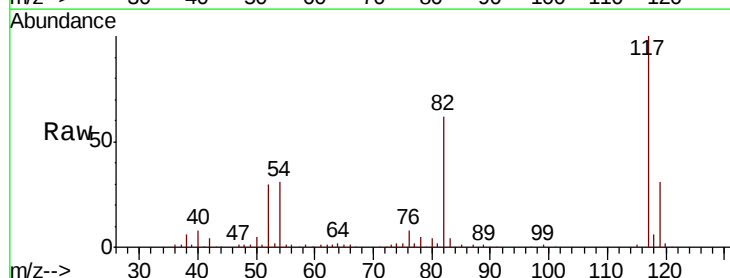
Tgt Ion: 117 Resp: 286702

Ion Ratio Lower Upper

117 100

82 61.8 49.3 73.9

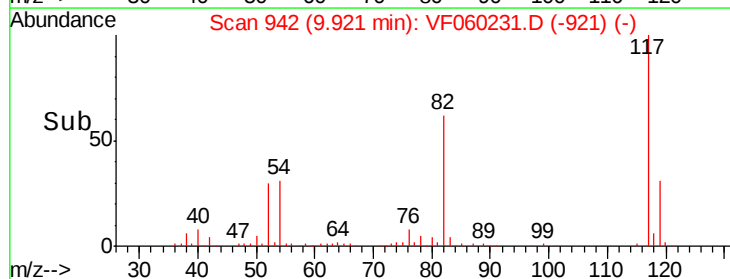
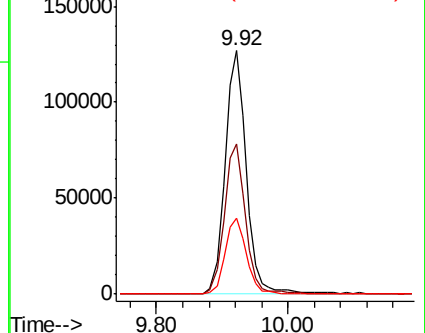
119 31.1 26.5 39.7

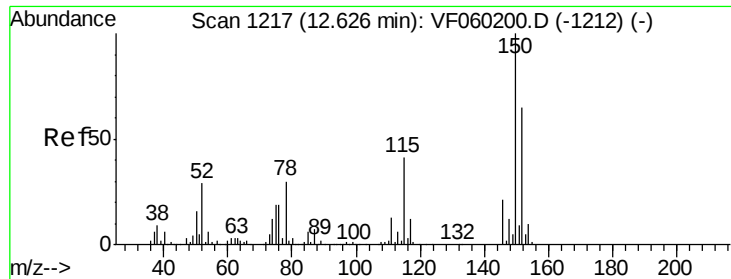


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E6

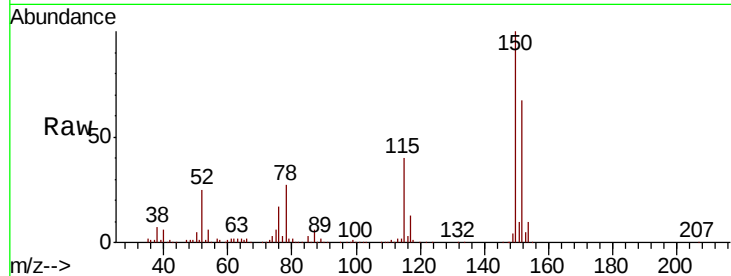
Tot Ion:152 Resp: 183526

Ion Ratio Lower Upper

152 100

115 60.0 31.5 94.5

150 149.8 0.0 310.4

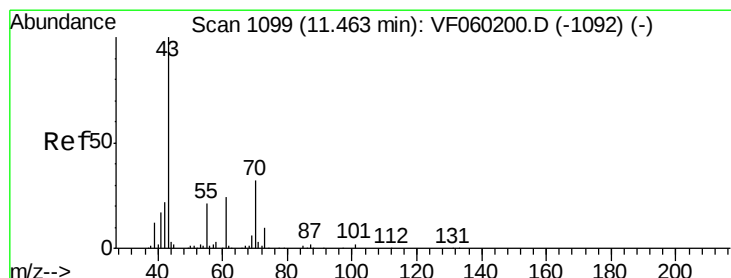
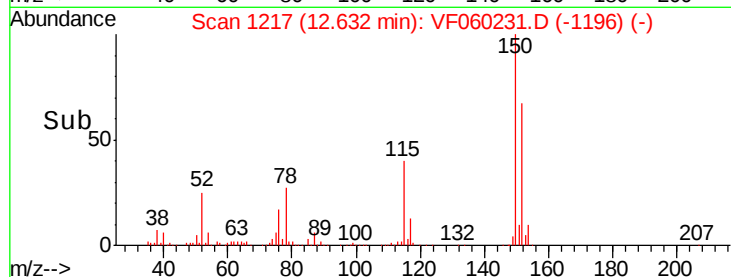
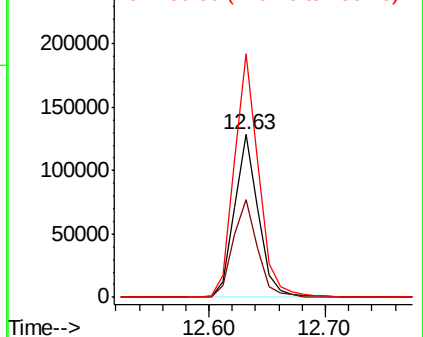


Abundance

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: 5.37 ug/l

RT: 11.47 min Scan# 1099

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Tgt Ion: 43 Resp: 1615

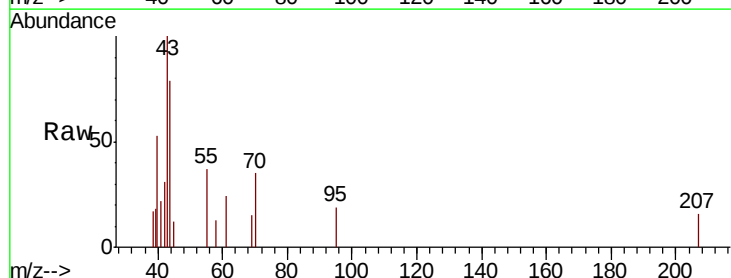
Ion Ratio Lower Upper

43 100

70 34.6 25.8 38.6

55 37.1 16.8 25.2#

61 24.0 18.9 28.3



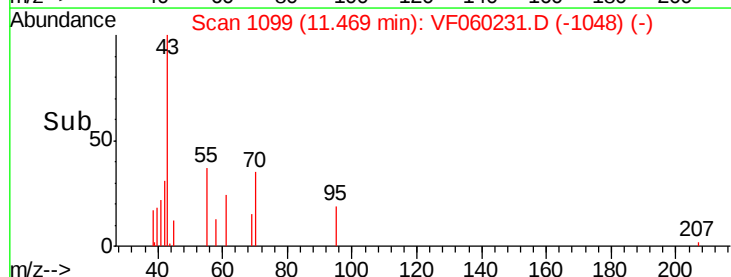
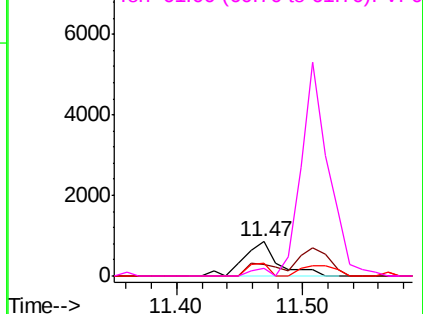
Abundance

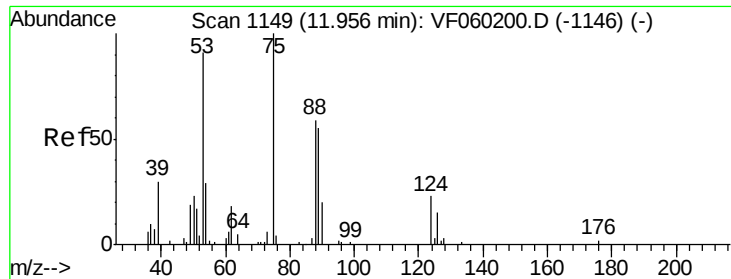
Ion 43.00 (42.70 to 43.70): VF0

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





#81

trans-1,4-Dichloro-2-butene

Concen: 2.91 ug/l

RT: 11.97 min Scan# 1150

Delta R.T. 0.02 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

Instrument :

MSVOA_F

ClientSampled :

EP1-Q2-E6

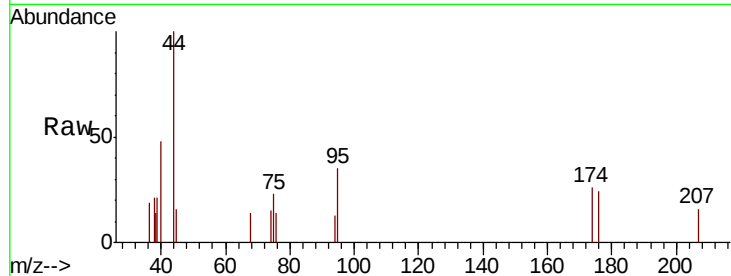
Tot Ion: 75 Resp: 182

Ion Ratio Lower Upper

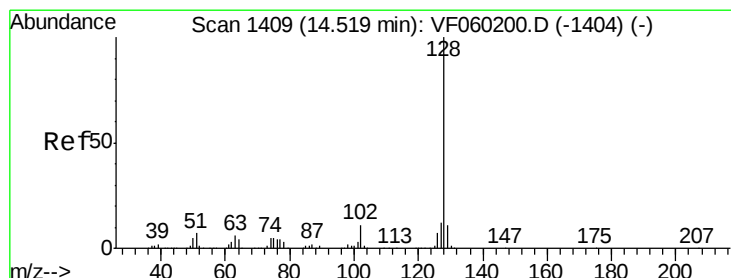
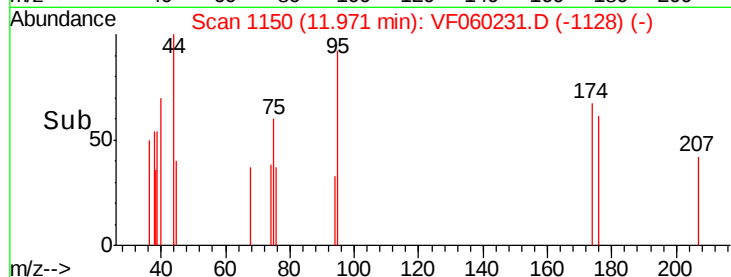
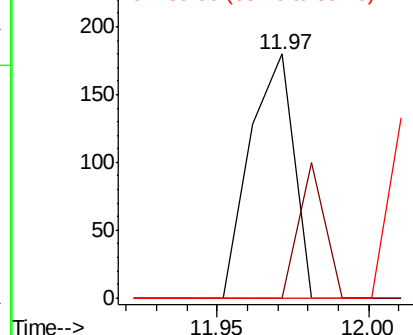
75 100

53 0.0 76.5 114.7#

89 0.0 46.5 69.7#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0



#95

Naphthalene

Concen: 2.98 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.01 min

Lab File: VF060231.D

Acq: 10 Sep 2018 13:35

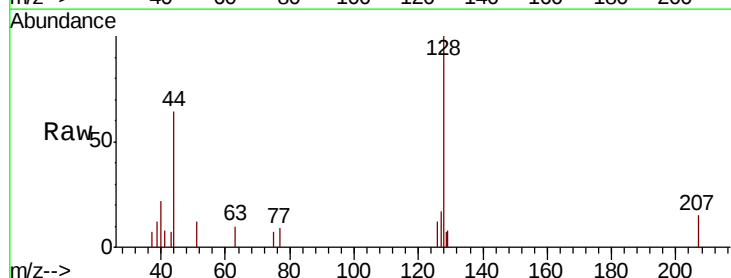
Tgt Ion: 128 Resp: 2724

Ion Ratio Lower Upper

128 100

127 16.9 9.9 14.9#

129 14.2 8.9 13.3#



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

