

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082818\
 Data File : VF060156.D
 Acq On : 28 Aug 2018 18:07
 Operator : VA/AP
 Sample : J4646-06RE
 Misc : 5.57g/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q4-B5RE

Quant Time: Aug 29 01:17:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	110657	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	144034	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	117836	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	56246	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	36879	24.35	ug/l	-0.02
Spiked Amount			Recovery	=	48.70%	
35) Dibromofluoromethane	4.28	113	45630	40.34	ug/l	-0.02
Spiked Amount			Recovery	=	80.68%	
50) Toluene-d8	7.70	98	141039	43.91	ug/l	-0.02
Spiked Amount			Recovery	=	87.82%	
62) 4-Bromofluorobenzene	11.50	95	54609	32.14	ug/l	-0.01
Spiked Amount			Recovery	=	64.28%	

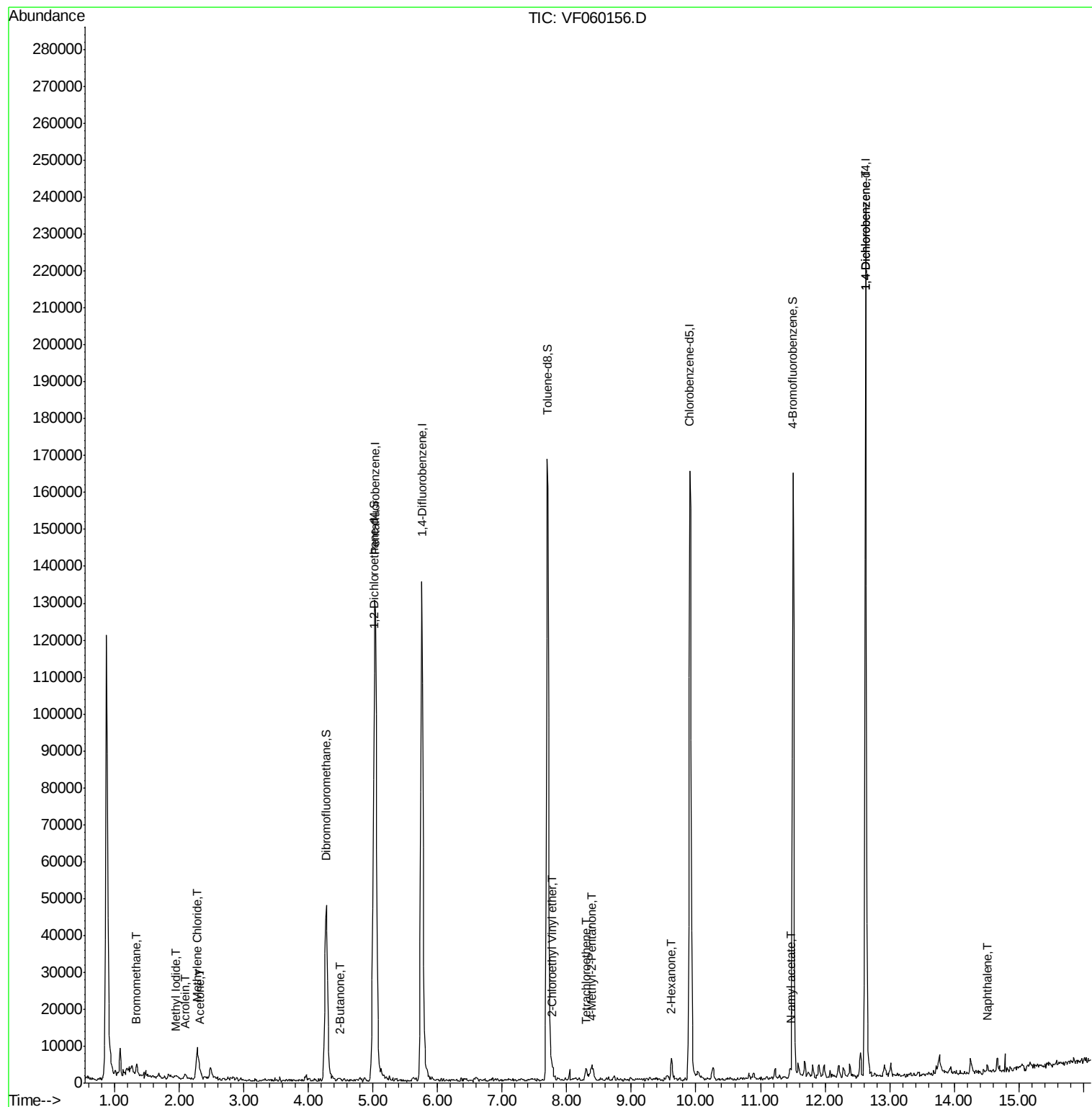
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	496	Below Cal	#	40
5) Bromomethane	1.32	94	1014	1.48	ug/l #	50
10) Methyl Iodide	1.94	142	1383	1.10	ug/l #	85
13) Acrolein	2.09	56	174	29.49	ug/l	83
16) Acetone	2.33	43	1235	3.10	ug/l #	76
18) Methyl Acetate	2.45	43	449	Below Cal	#	60
20) Methylene Chloride	2.28	84	5372	1.92	ug/l #	75
25) 2-Butanone	4.49	43	567	1.10	ug/l #	58
51) 4-Methyl-2-Pentanone	8.40	43	3541	4.02	ug/l	96
52) Toluene	7.77	92	979	Below Cal		77
58) 2-Chloroethyl Vinyl ether	7.78	63	130	1.70	ug/l	100
59) 2-Hexanone	9.62	43	4644	6.52	ug/l	96
64) Tetrachloroethene	8.30	164	947	1.19	ug/l #	74
68) m/p-Xylenes	10.26	106	1037	Below Cal		98
74) N-amyl acetate	11.46	43	1685	1.60	ug/l	94
88) 1,4-Dichlorobenzene	12.64	146	1767	1.04	ug/l	93
95) Naphthalene	14.52	128	1819	3.12	ug/l #	69

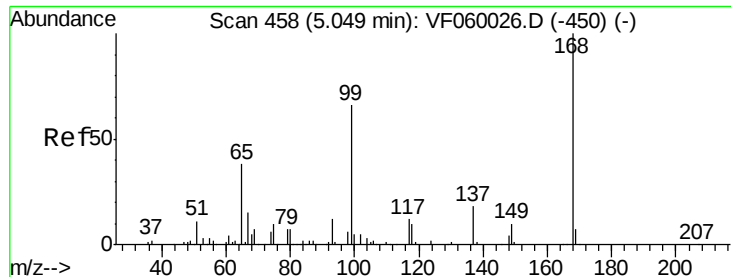
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

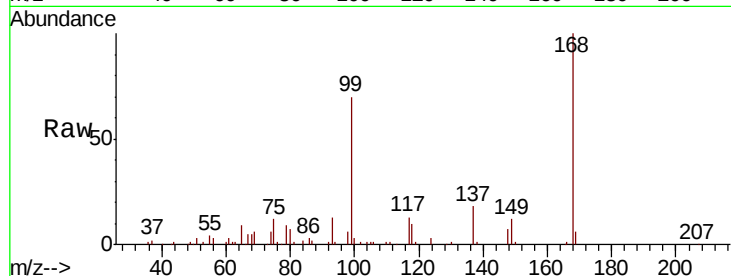
EP1-Q4-B5RE

Tot Ion:168 Resp: 110657

Ion Ratio Lower Upper

168 100

99 69.6 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

40000

30000

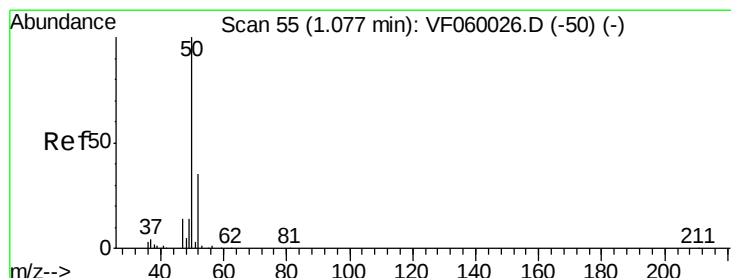
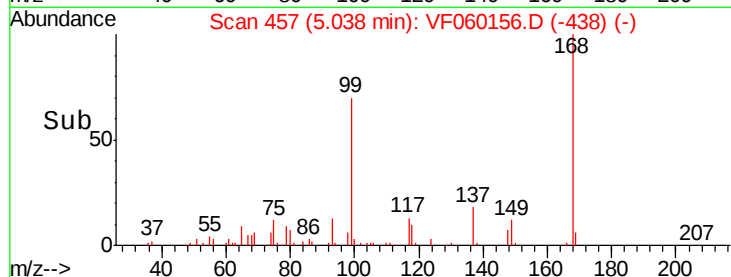
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060156.D

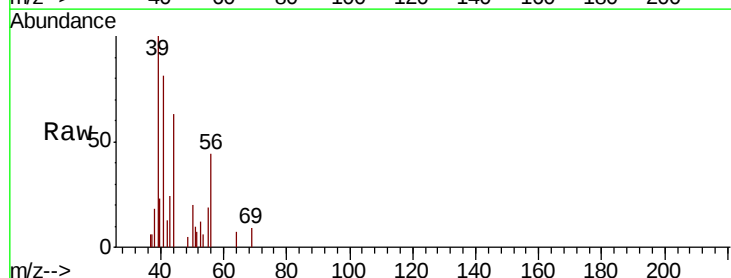
Acq: 28 Aug 2018 18:07

Tgt Ion: 50 Resp: 496

Ion Ratio Lower Upper

50 100

52 0.0 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

400

300

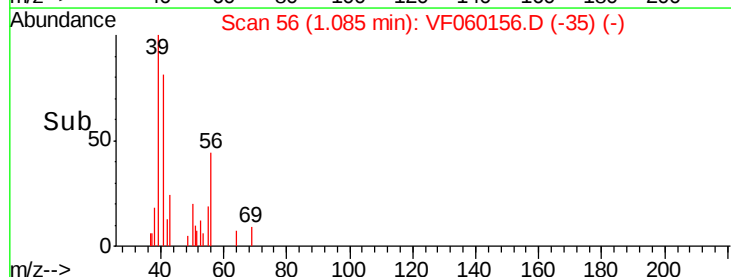
200

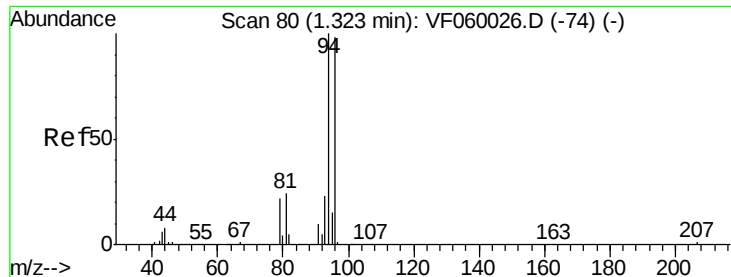
100

0

Time-->

1.05 1.10





#5

Bromomethane

Concen: 1.48 ug/l

RT: 1.32 min Scan# 80

Delta R.T. -0.00 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

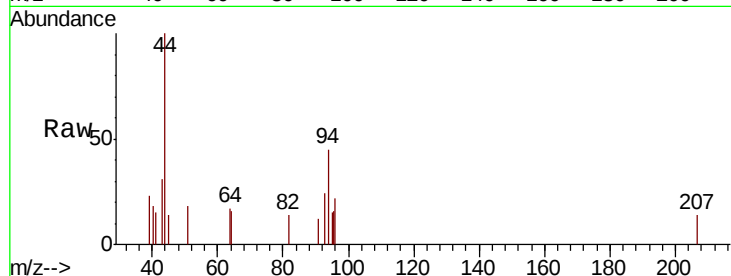
EP1-Q4-B5RE

Tot Ion: 94 Resp: 1014

Ion Ratio Lower Upper

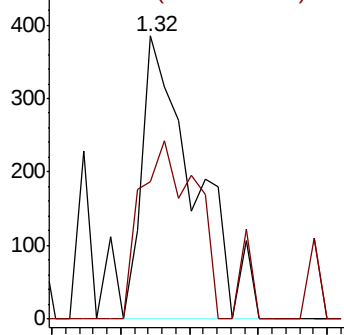
94 100

96 48.3 78.6 118.0#

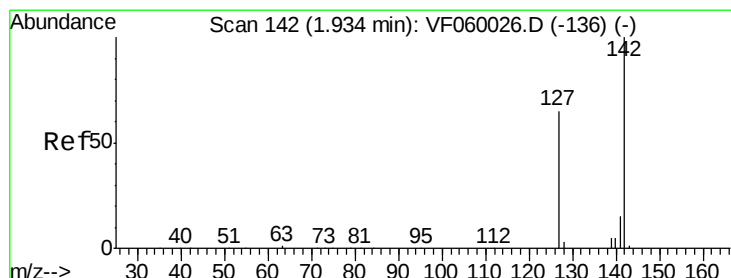
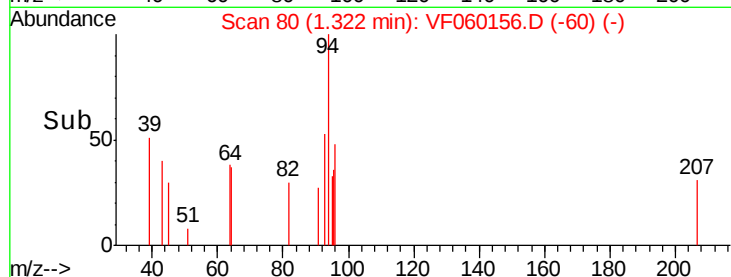


Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



Time-->



#10

Methyl Iodide

Concen: 1.10 ug/l

RT: 1.94 min Scan# 143

Delta R.T. 0.01 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

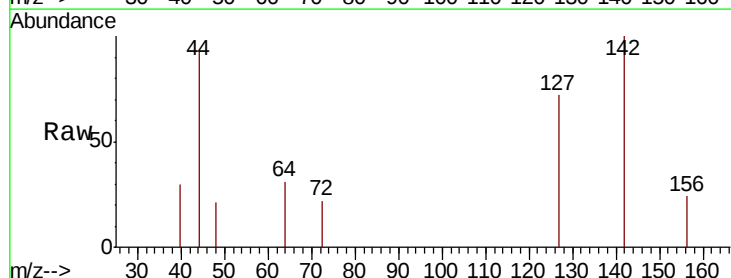
Tgt Ion: 142 Resp: 1383

Ion Ratio Lower Upper

142 100

127 72.4 51.8 77.6

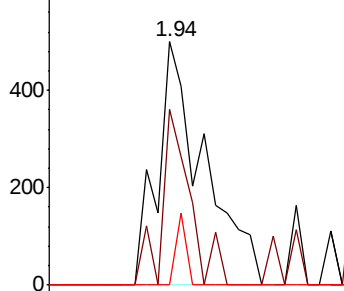
141 0.0 11.9 17.9#



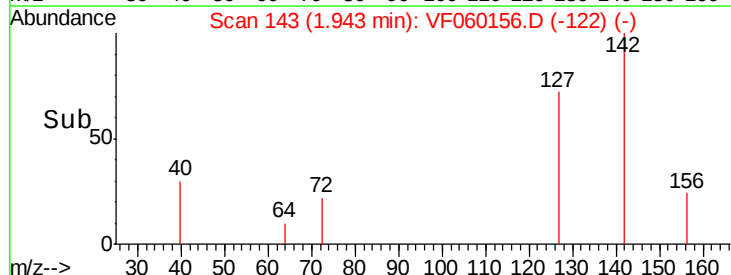
Abundance Ion 142.00 (141.70 to 142.70): V

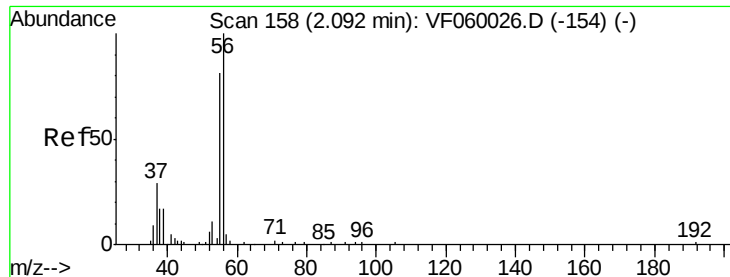
Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



Time-->





#13

Acrolein

Concen: 29.49 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

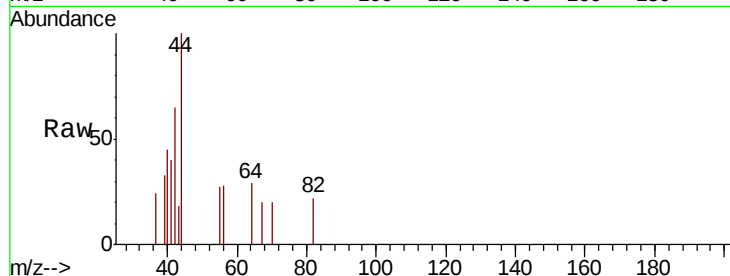
EP1-Q4-B5RE

Tot Ion: 56 Resp: 174

Ion Ratio Lower Upper

56 100

55 97.4 65.6 98.4



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

200

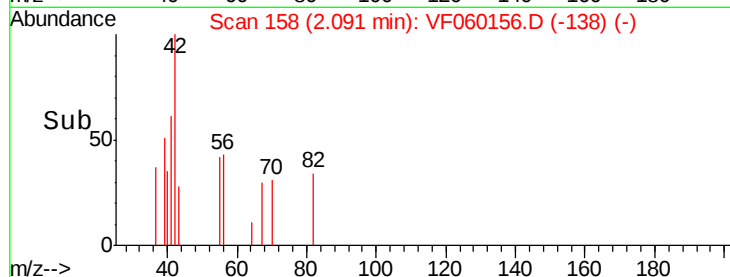
150

100

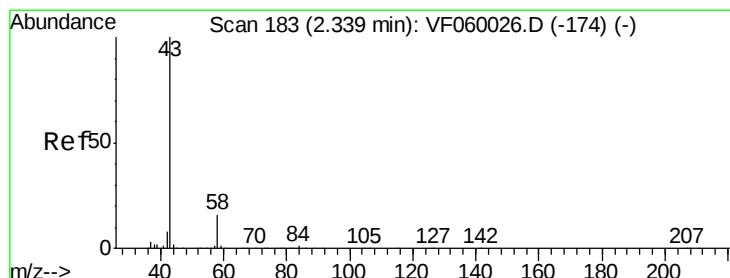
50

0

Time-->



Time-->



#16

Acetone

Concen: 3.10 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.01 min

Lab File: VF060156.D

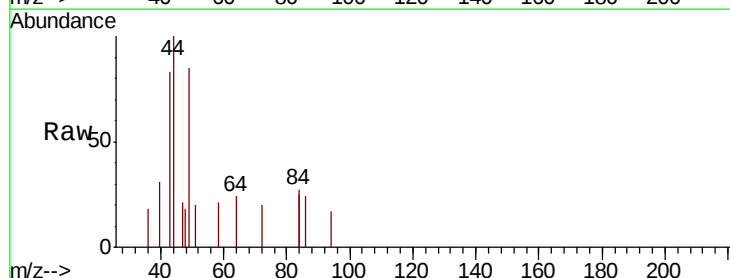
Acq: 28 Aug 2018 18:07

Tgt Ion: 43 Resp: 1235

Ion Ratio Lower Upper

43 100

58 25.8 12.6 19.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

600

500

400

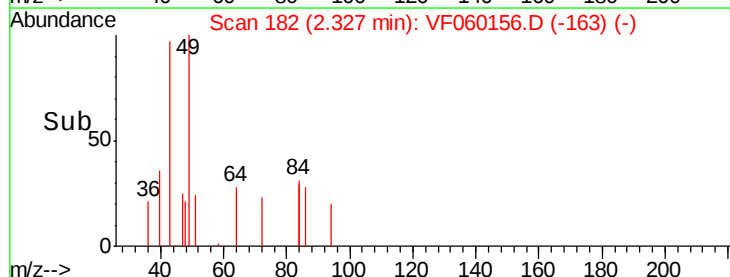
300

200

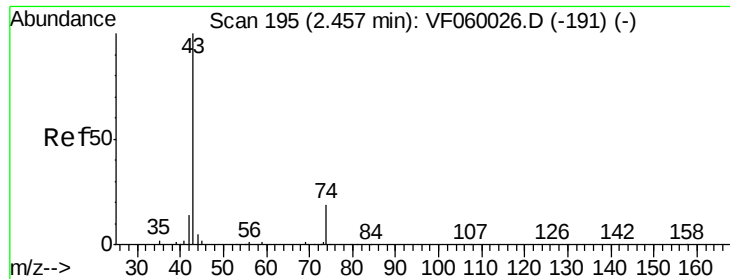
100

0

Time-->



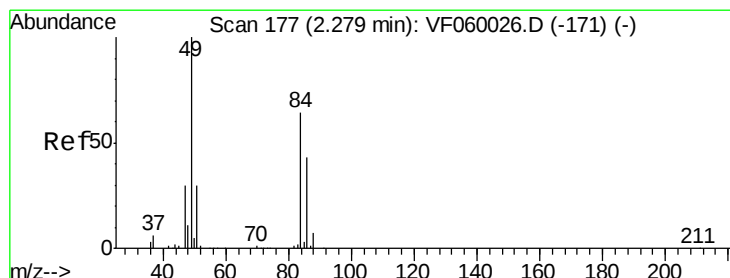
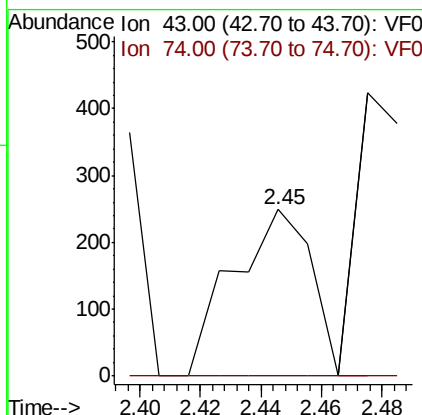
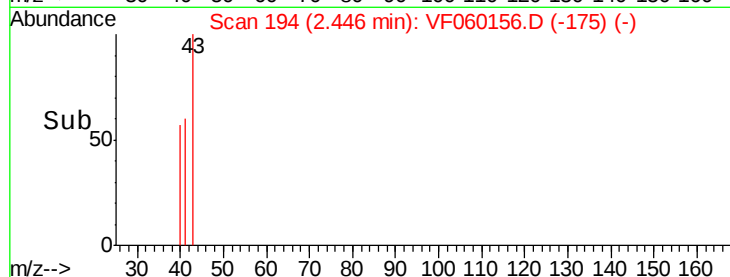
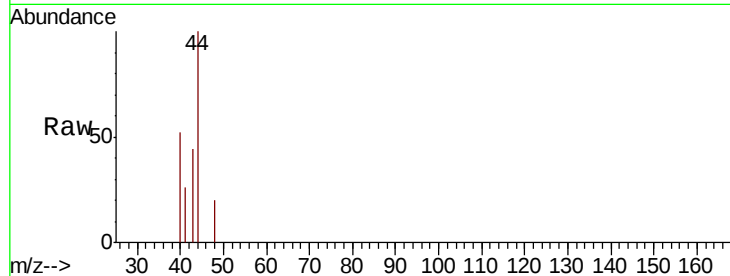
Time-->



#18
Methyl Acetate
Concen: Below Cal
RT: 2.45 min Scan# 194
Delta R.T. -0.01 min
Lab File: VF060156.D
Acq: 28 Aug 2018 18:07

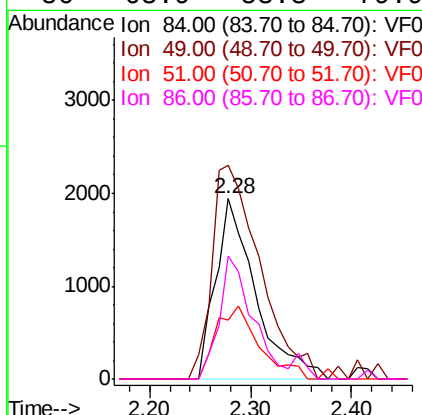
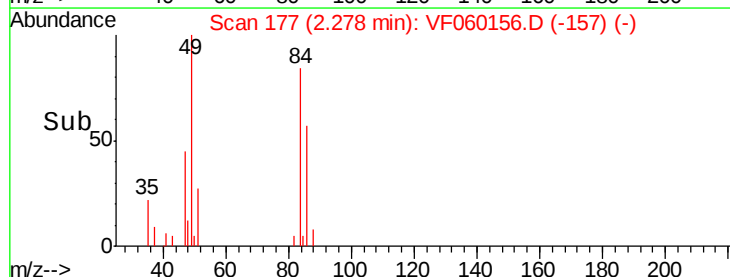
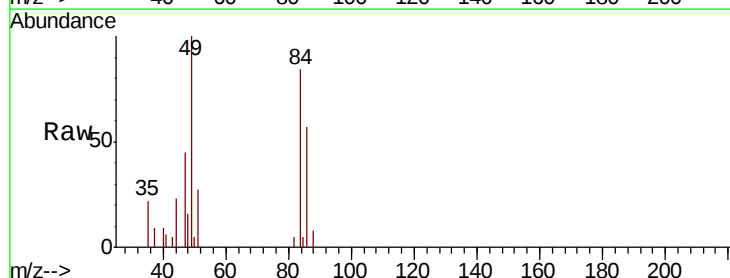
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q4-B5RE

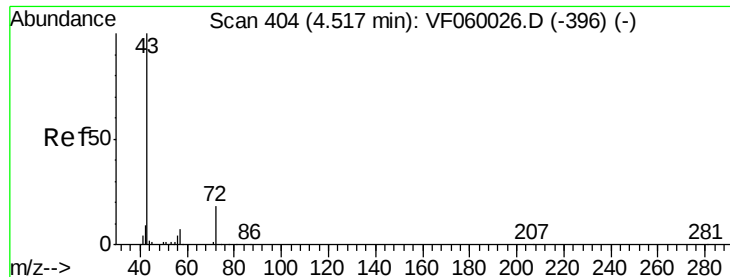
Tot Ion: 43 Resp: 449
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.6#



#20
Methylene Chloride
Concen: 1.92 ug/l
RT: 2.28 min Scan# 177
Delta R.T. -0.00 min
Lab File: VF060156.D
Acq: 28 Aug 2018 18:07

Tgt Ion: 84 Resp: 5372
Ion Ratio Lower Upper
84 100
49 111.5 125.4 188.0#
51 30.4 38.3 57.5#
86 63.9 53.3 79.9

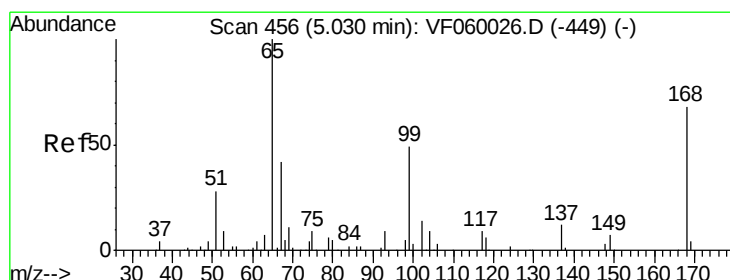
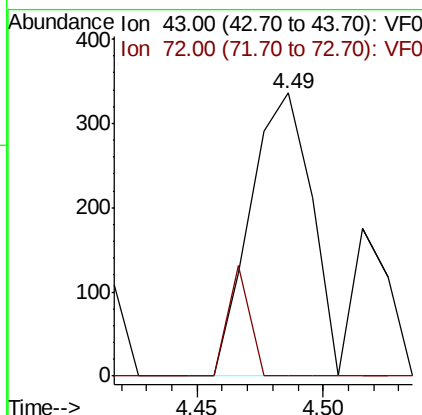
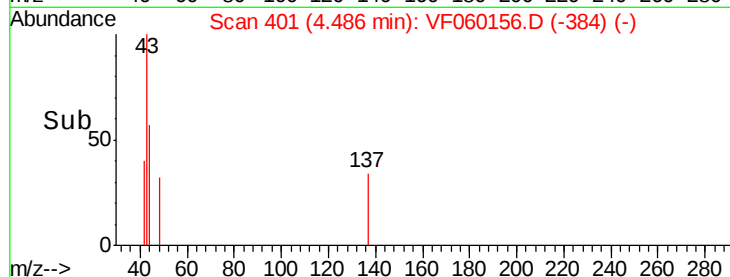
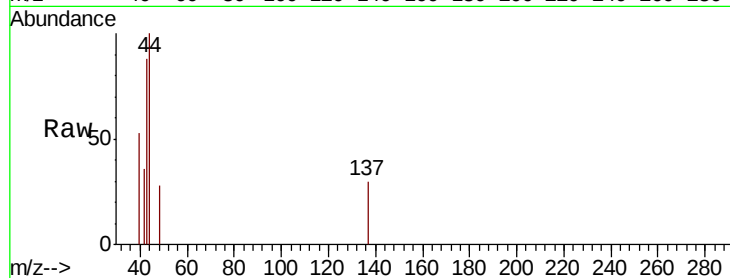




#25
 2-Butanone
 Concen: 1.10 ug/l
 RT: 4.49 min Scan# 401
 Delta R.T. -0.03 min
 Lab File: VF060156.D
 Acq: 28 Aug 2018 18:07

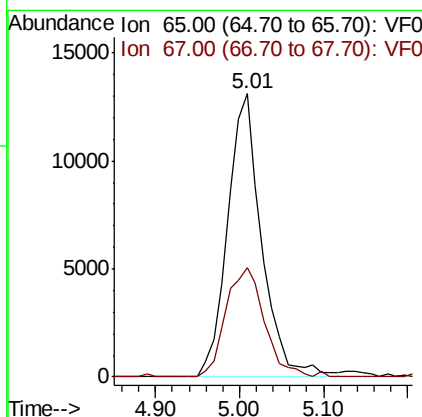
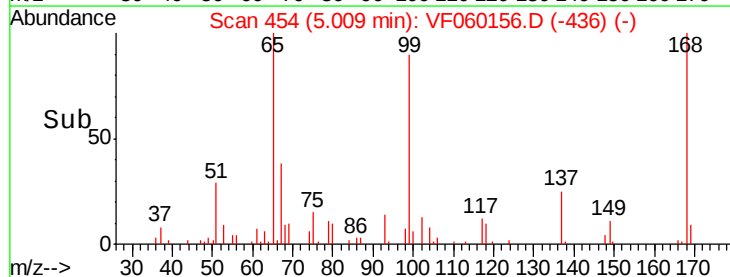
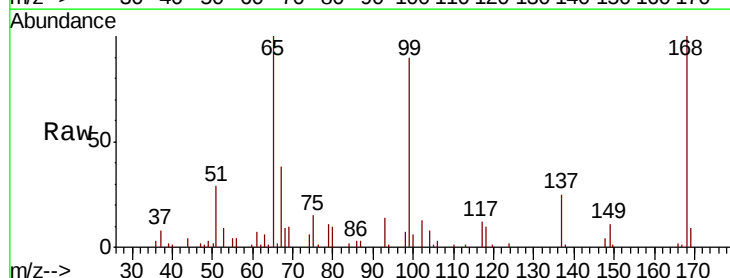
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q4-B5RE

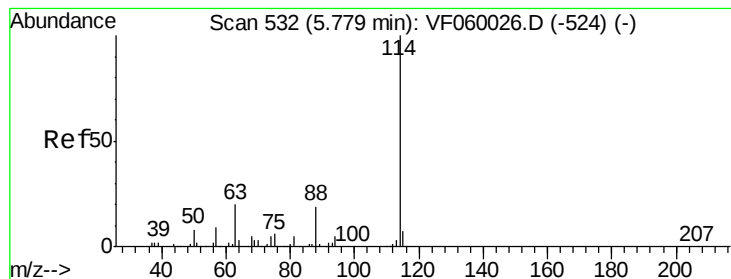
Tot Ion: 43 Resp: 567
 Ion Ratio Lower Upper
 43 100
 72 0.0 15.0 22.6#



#33
 1,2-Dichloroethane-d4
 Concen: 24.35 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.02 min
 Lab File: VF060156.D
 Acq: 28 Aug 2018 18:07

Tgt Ion: 65 Resp: 36879
 Ion Ratio Lower Upper
 65 100
 67 38.6 0.0 92.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.02 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q4-B5RE

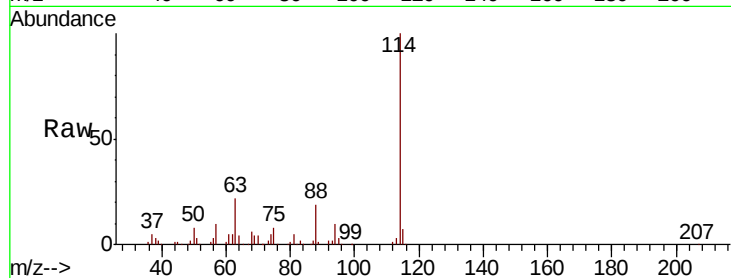
Tot Ion:114 Resp: 144034

Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.4

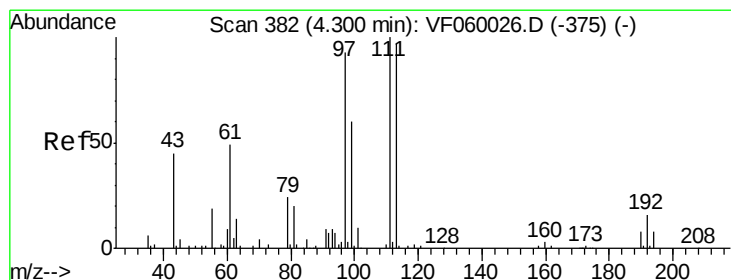
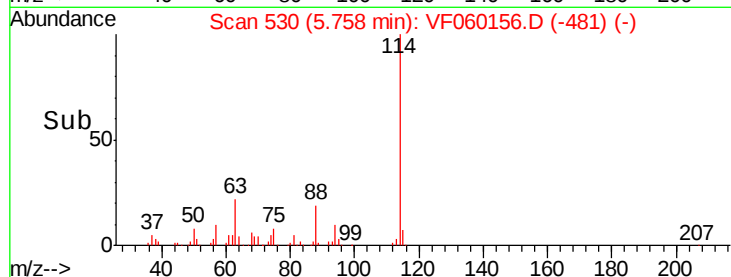
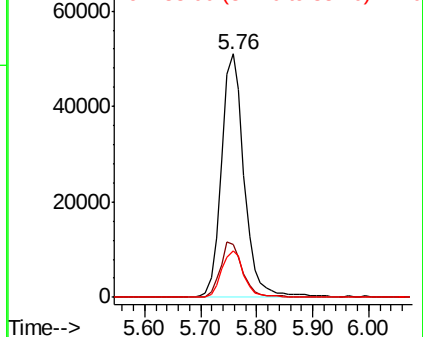
88 19.1 0.0 38.6



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: 40.34 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.02 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

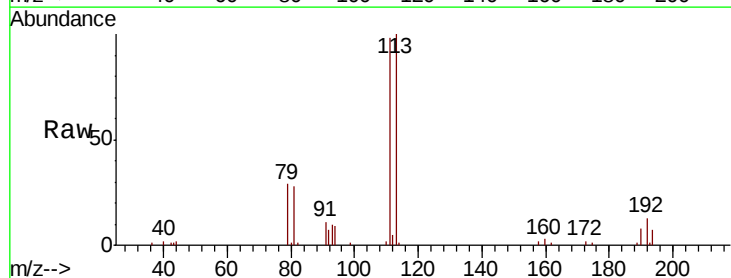
Tgt Ion:113 Resp: 45630

Ion Ratio Lower Upper

113 100

111 96.8 82.7 124.1

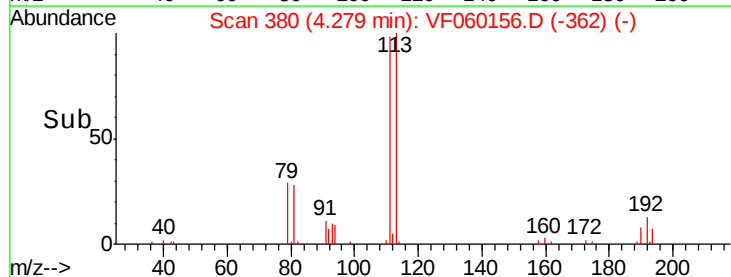
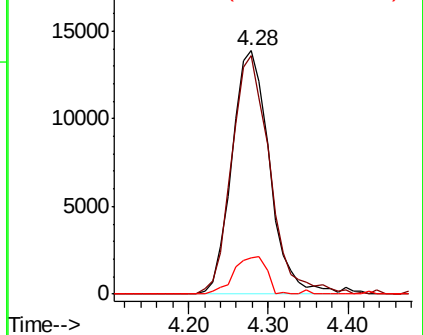
192 14.5 13.0 19.4

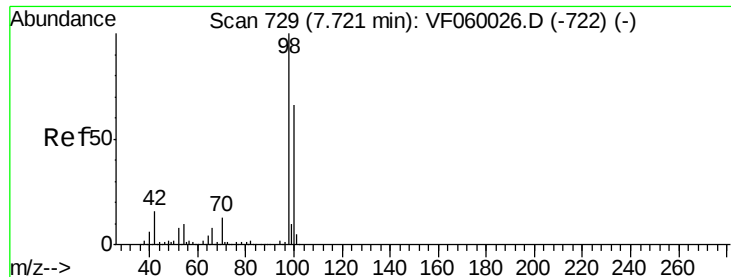


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 43.91 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.02 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

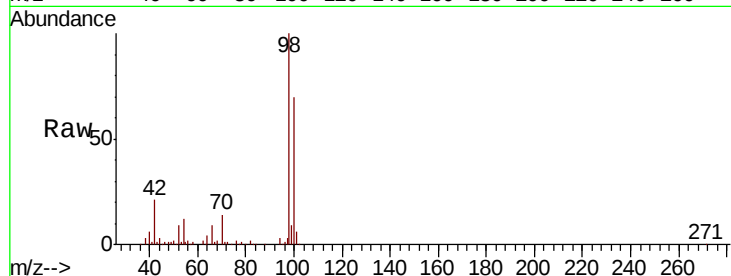
EP1-Q4-B5RE

Tot Ion: 98 Resp: 141039

Ion Ratio Lower Upper

98 100

100 69.9 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

60000

50000

40000

30000

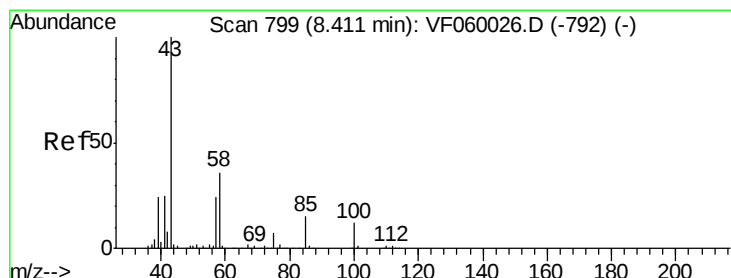
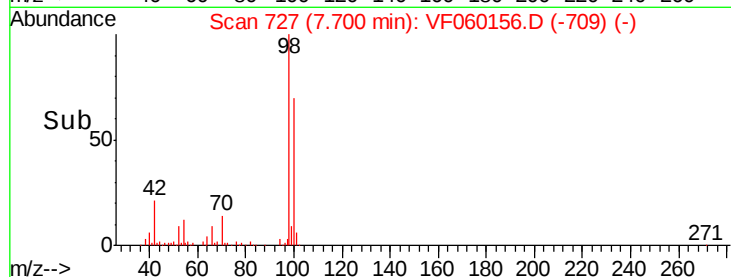
20000

10000

0

7.60 7.70 7.80 7.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 4.02 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF060156.D

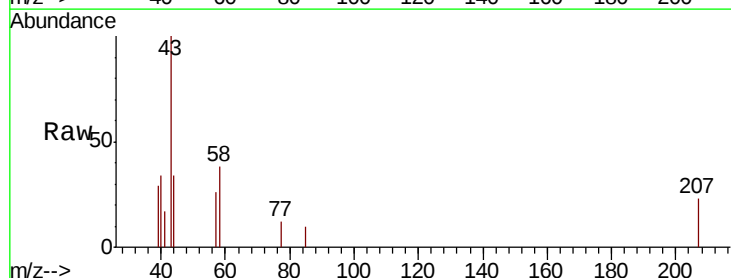
Acq: 28 Aug 2018 18:07

Tgt Ion: 43 Resp: 3541

Ion Ratio Lower Upper

43 100

58 37.9 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

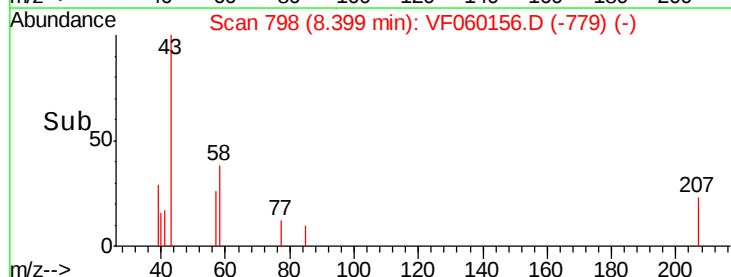
1000

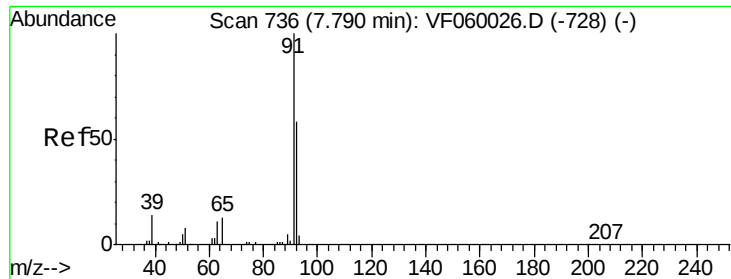
500

0

8.30 8.35 8.40 8.45 8.50

Time-->





#52

Toluene

Concen: Below Cal

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

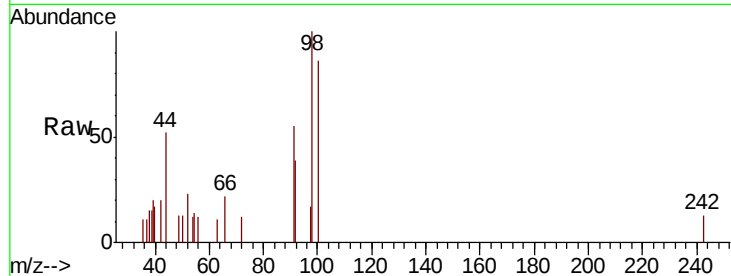
EP1-Q4-B5RE

Tot Ion: 92 Resp: 979

Ion Ratio Lower Upper

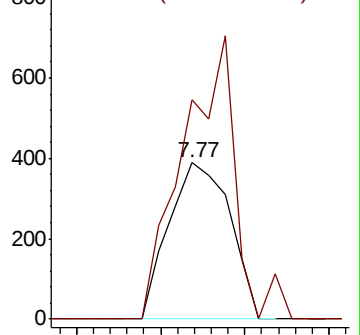
92 100

91 140.1 137.7 206.5

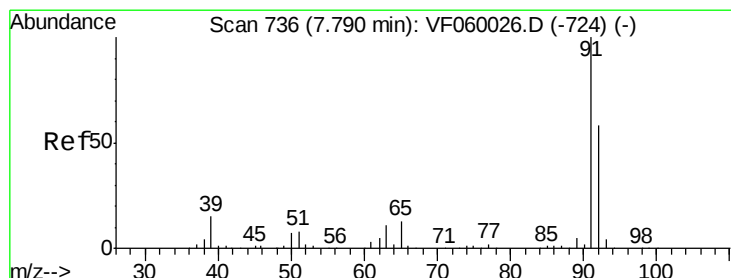
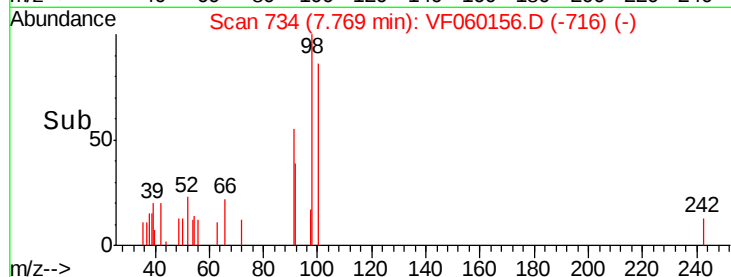


Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



Time--> 7.70 7.75 7.80 7.85



#58

2-Chloroethyl Vinyl ether

Concen: 1.70 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF060156.D

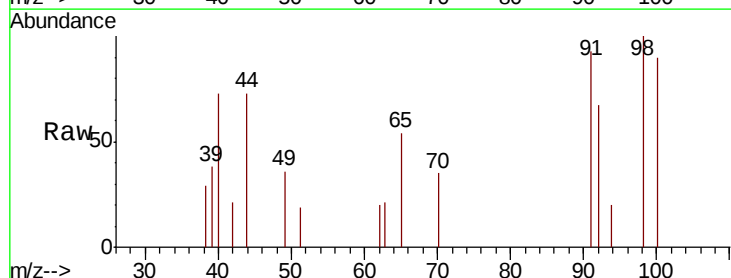
Acq: 28 Aug 2018 18:07

Tgt Ion: 63 Resp: 130

Ion Ratio Lower Upper

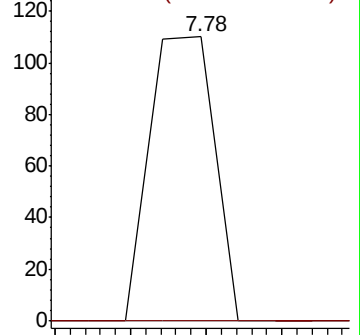
63 100

106 0.0 0.0 0.0

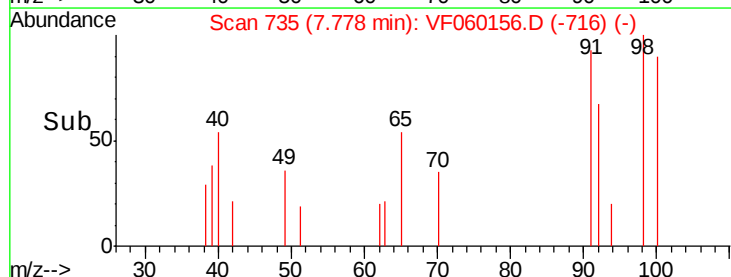


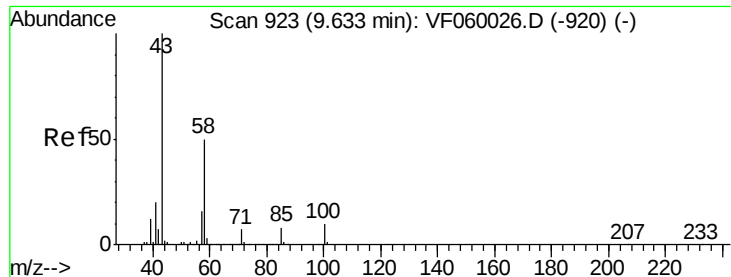
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



Time--> 7.74 7.76 7.78 7.80

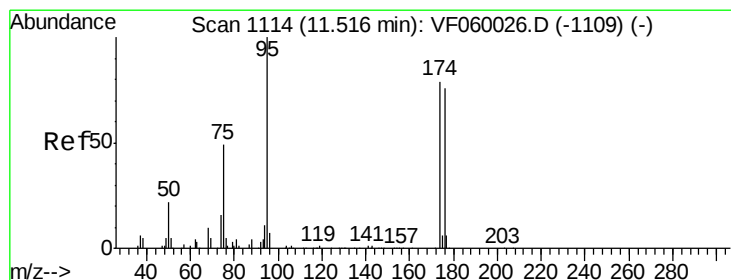
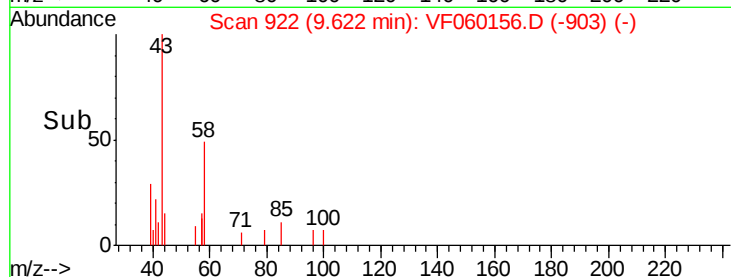
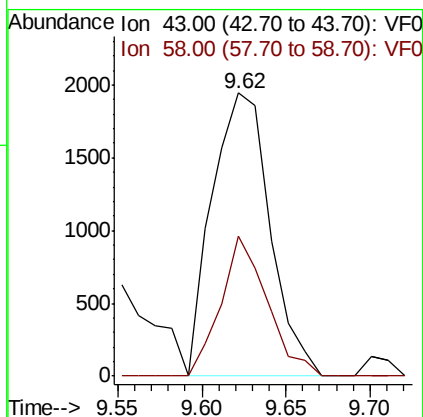
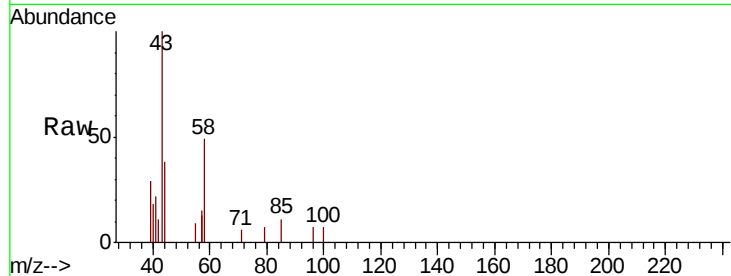




#59
2-Hexanone
Concen: 6.52 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF060156.D
Acq: 28 Aug 2018 18:07

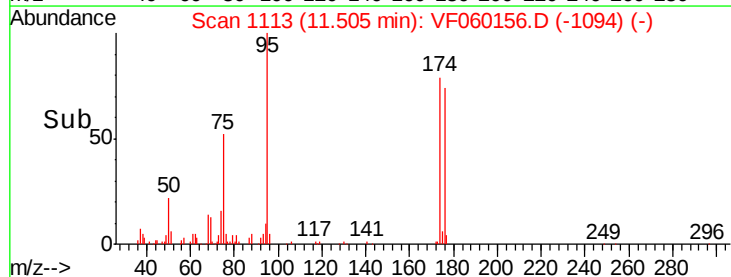
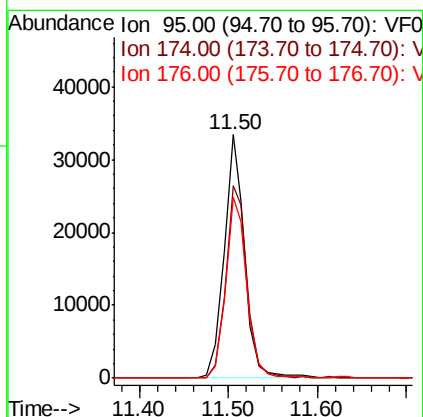
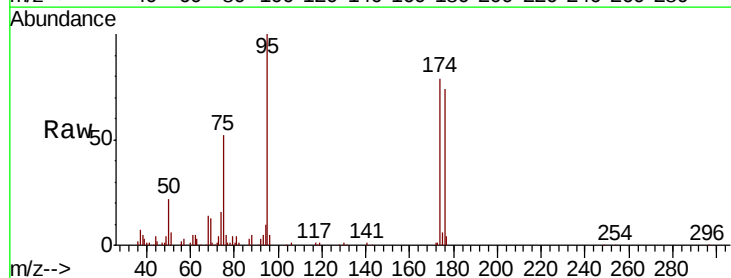
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q4-B5RE

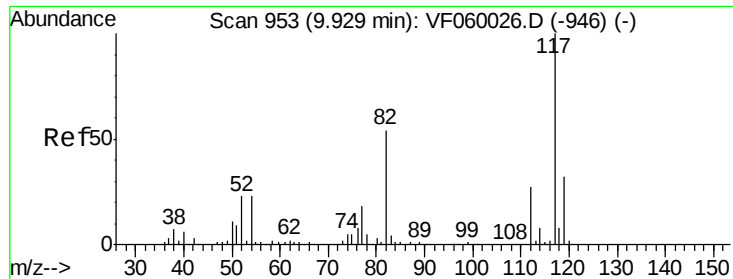
Tot Ion: 43 Resp: 4644
Ion Ratio Lower Upper
43 100
58 49.4 23.4 70.2



#62
4-Bromofluorobenzene
Concen: 32.14 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF060156.D
Acq: 28 Aug 2018 18:07

Tgt Ion: 95 Resp: 54609
Ion Ratio Lower Upper
95 100
174 79.1 0.0 158.4
176 74.1 0.0 153.0

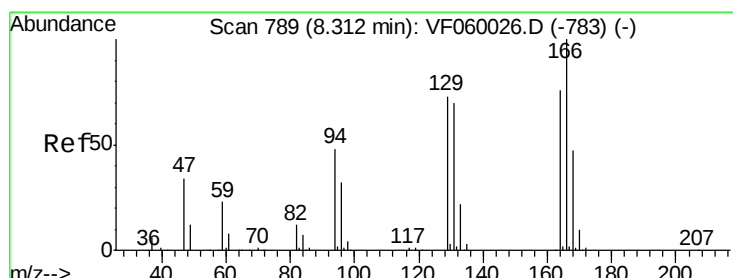
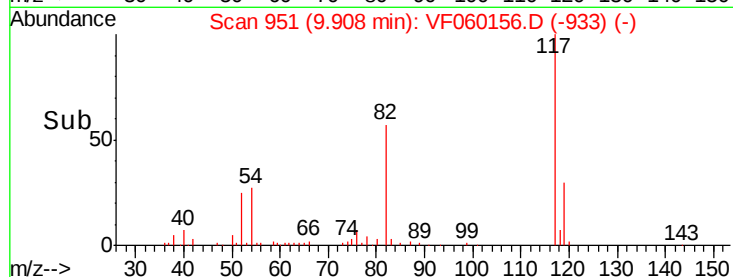
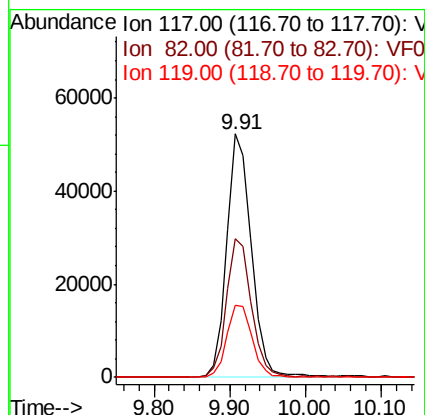
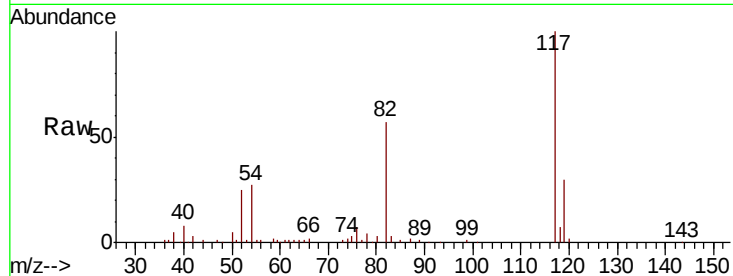




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF060156.D
Acq: 28 Aug 2018 18:07

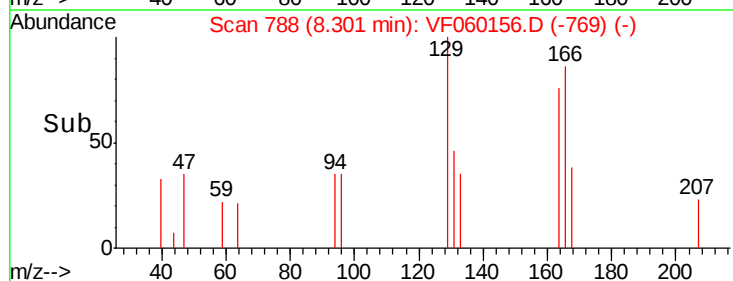
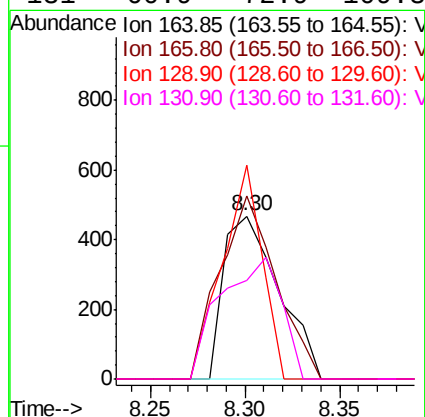
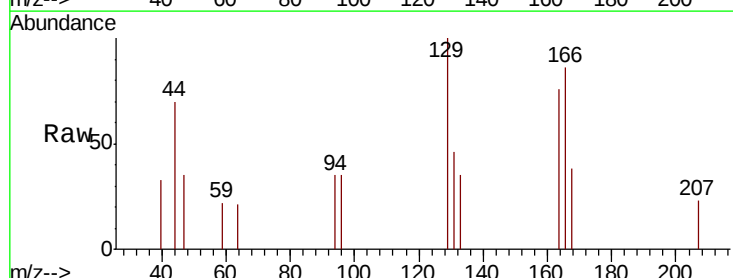
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q4-B5RE

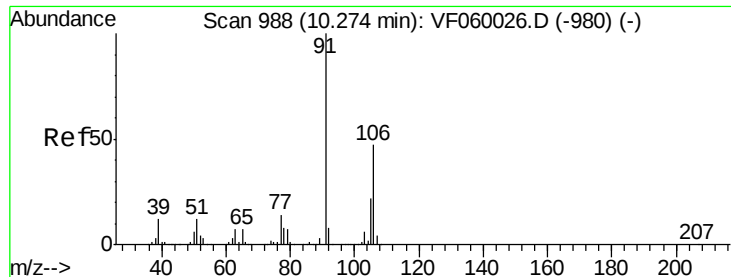
Tot Ion:117 Resp: 117836
Ion Ratio Lower Upper
117 100
82 56.9 43.6 65.4
119 29.6 25.6 38.4



#64
Tetrachloroethene
Concen: 1.19 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF060156.D
Acq: 28 Aug 2018 18:07

Tgt Ion:164 Resp: 947
Ion Ratio Lower Upper
164 100
166 112.2 104.7 157.1
129 131.0 77.0 115.4#
131 60.9 72.9 109.3#





#68

m/p-Xvlenes

Concen: Below Cal

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

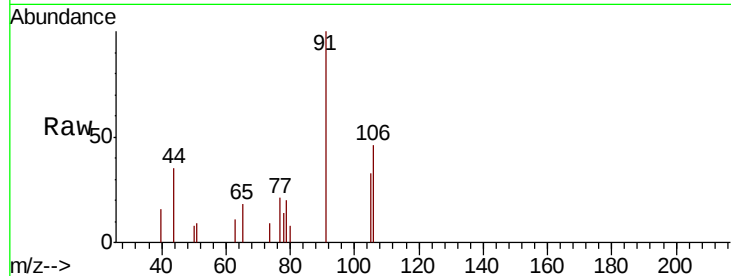
EP1-Q4-B5RE

Tot Ion:106 Resp: 1037

Ion Ratio Lower Upper

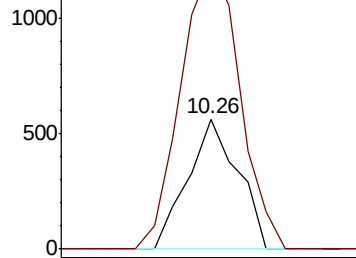
106 100

91 217.7 171.8 257.8

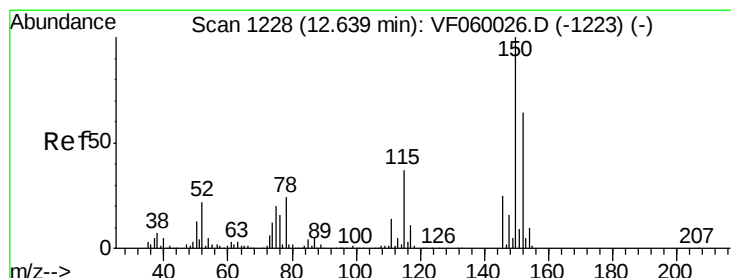
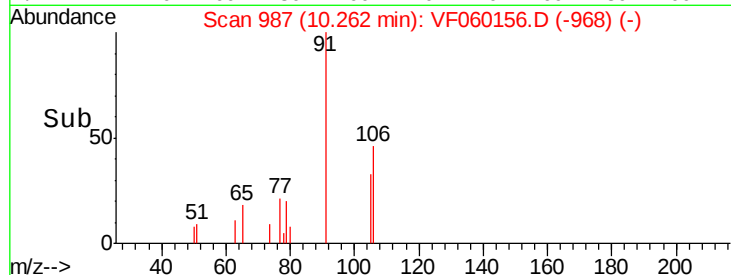


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

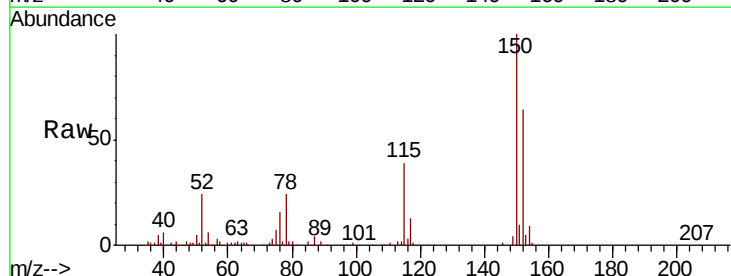
Tgt Ion:152 Resp: 56246

Ion Ratio Lower Upper

152 100

115 61.1 28.6 85.9

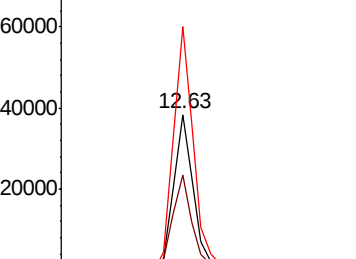
150 156.4 0.0 312.0



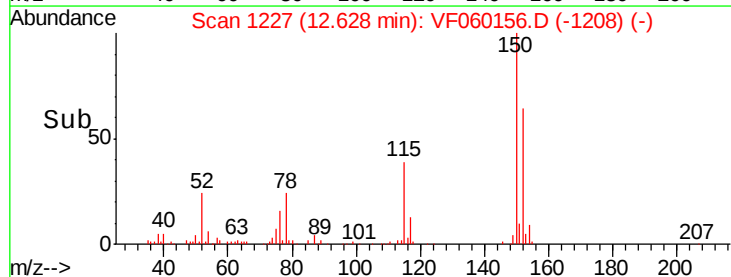
Abundance Ion 152.00 (151.70 to 152.70): V

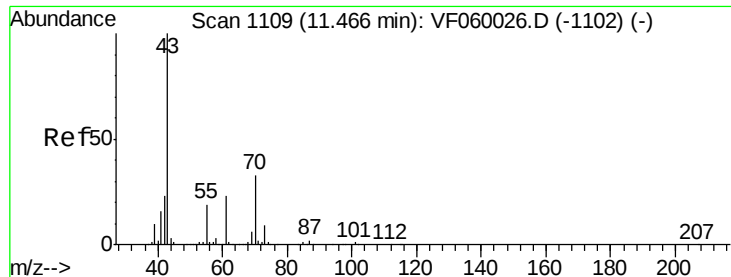
Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



Time-->





#74

N-amvl acetate

Concen: 1.60 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q4-B5RE

Tot Ion: 43 Resp: 1685

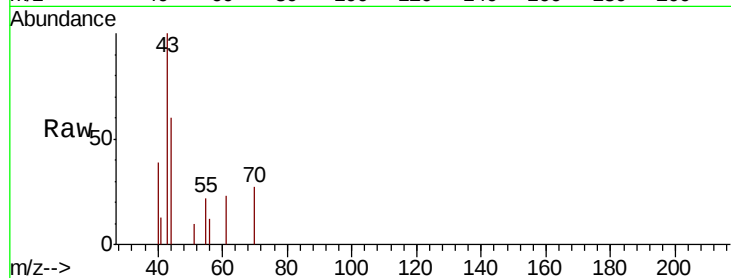
Ion Ratio Lower Upper

43 100

70 27.4 26.4 39.6

55 22.1 15.0 22.4

61 22.9 18.4 27.6

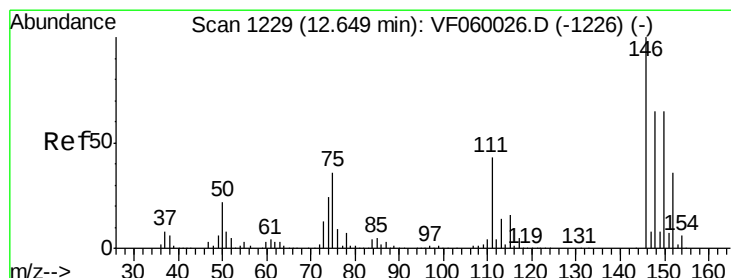
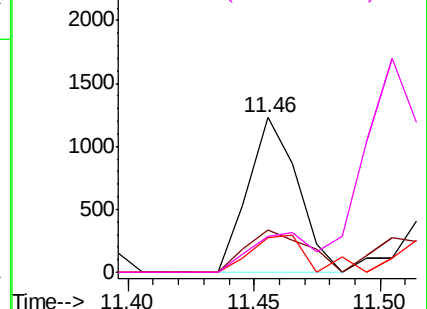
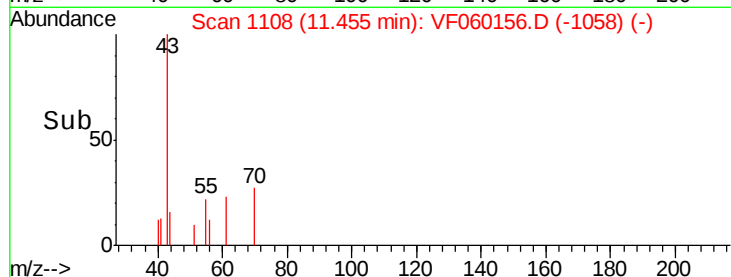


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#88

1,4-Dichlorobenzene

Concen: 1.04 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

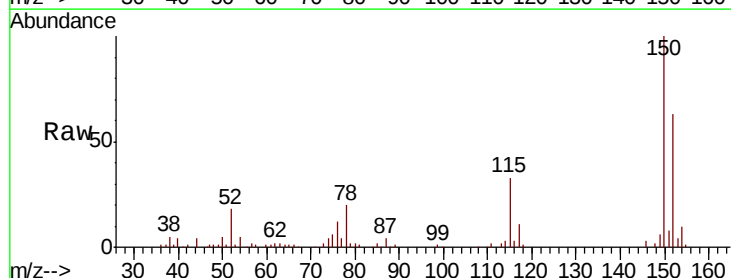
Tgt Ion: 146 Resp: 1767

Ion Ratio Lower Upper

146 100

111 51.8 21.6 64.8

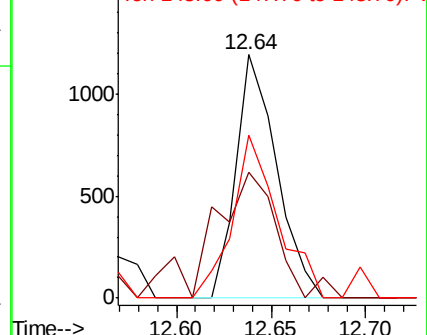
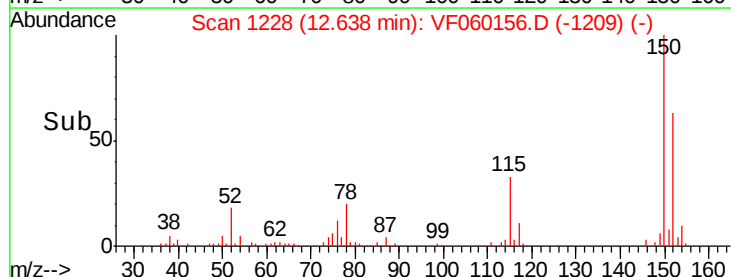
148 66.8 32.3 96.8

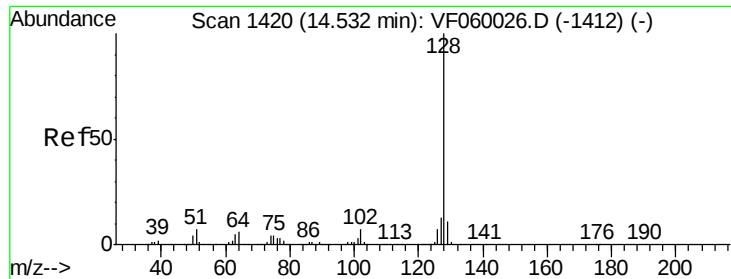


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#95

Naphthalene

Concen: 3.12 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VF060156.D

Acq: 28 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q4-B5RE

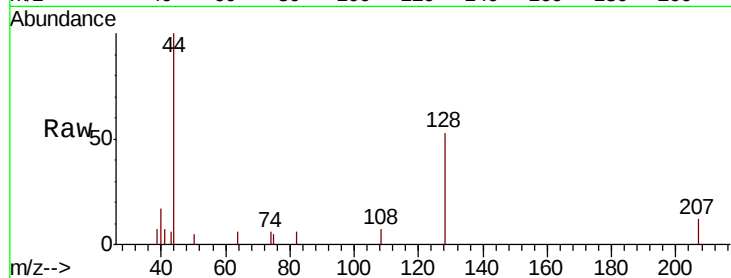
Tot Ion:128 Resp: 1819

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.5 12.7#



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

