

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092315\
 Data File : VD046854.D
 Acq On : 23 Sep 2015 14:44
 Operator : FY/SY
 Sample : G3784-02
 Misc : 5.77qm/5mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-BPM-02-J1-J2-J3-J4

Quant Time: Sep 24 01:46:22 2015
 Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:47:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.29	168	158353	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	212910	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.57	117	202945	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.91	152	105695	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.71	65	75328	45.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.50%	
35) Dibromofluoromethane	6.19	113	75354	45.24	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	90.48%	
50) Toluene-d8	9.60	98	202539	38.54	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	77.08%	
62) 4-Bromofluorobenzene	12.84	95	88906	42.02	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	84.04%	

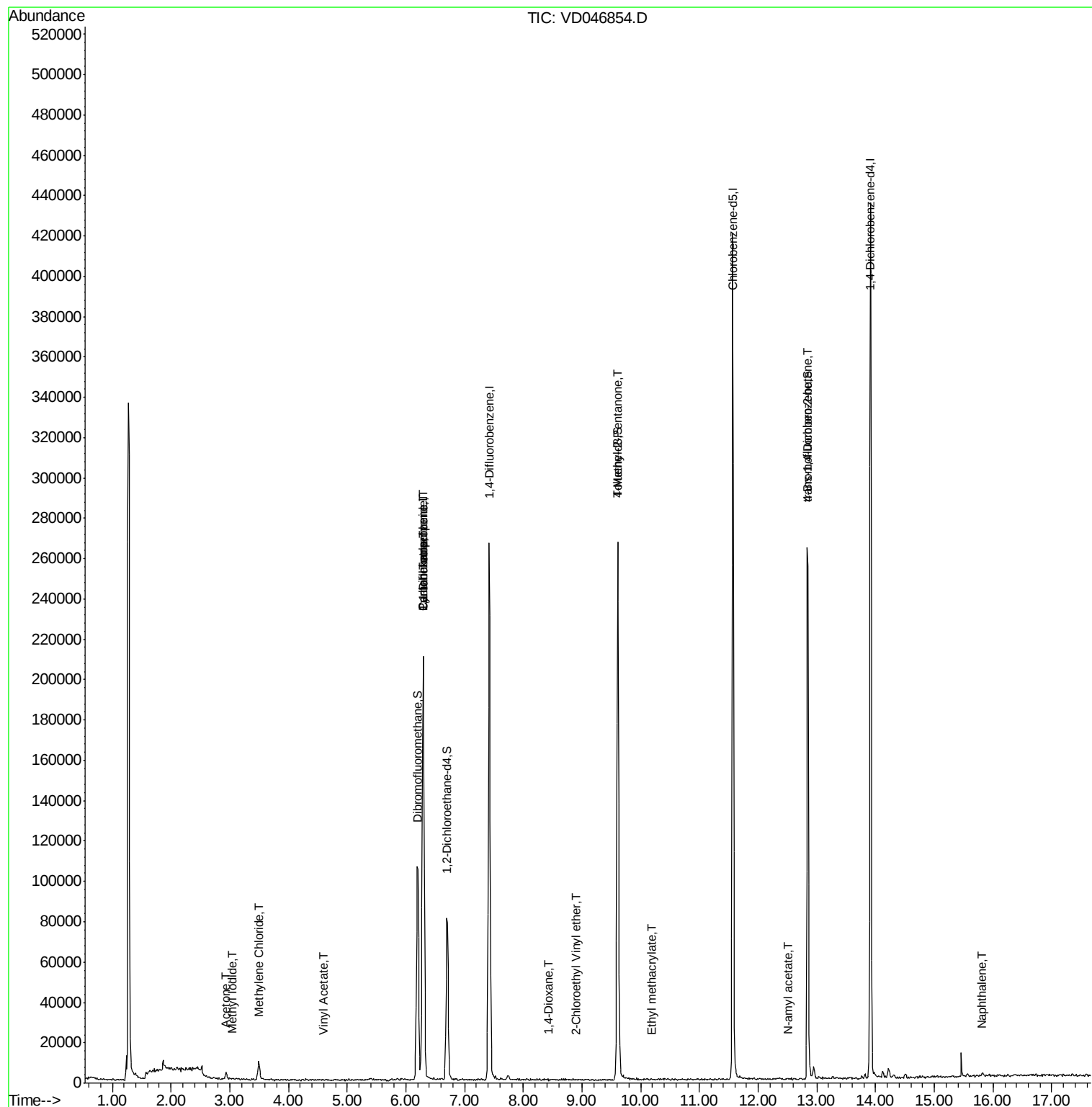
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.41	85	328	Below Cal		90
3) Chlorodifluoromethane	1.39	51	905	Below Cal	#	66
6) Bromomethane	1.97	94	317	Below Cal	#	2
11) Methyl Iodide	3.04	142	44	1.76	ug/l	# 13
12) Tert butyl alcohol	3.68	59	93	Below Cal	#	74
17) Acetone	2.93	43	5081	18.26	ug/l	# 87
21) Methylene Chloride	3.49	84	3716	2.46	ug/l	82
24) Vinyl Acetate	4.60	43	39	15.03	ug/l	# 82
31) Cyclohexane	6.29	56	4171	1.69	ug/l	# 1
36) 1,1-Dichloropropene	6.29	75	14719	5.92	ug/l	# 53
38) Carbon Tetrachloride	6.29	117	14998	5.80	ug/l	# 17
49) 1,4-Dioxane	8.42	88	43	7.22	ug/l	# 55
51) 4-Methyl-2-Pentanone	9.59	43	1500	1.97	ug/l	# 1
56) Ethyl methacrylate	10.20	69	277	4.12	ug/l	# 11
58) 2-Chloroethyl Vinyl ether	8.91	63	39	6.40	ug/l	# 53
74) N-amyl acetate	12.50	43	33	4.73	ug/l	# 54
81) trans-1,4-Dichloro-2-buten	12.84	75	44290	119.45	ug/l	# 9
95) Naphthalene	15.81	128	971	2.79	ug/l	# 70

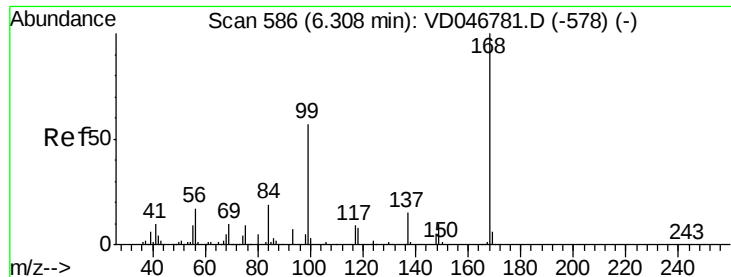
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.02 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

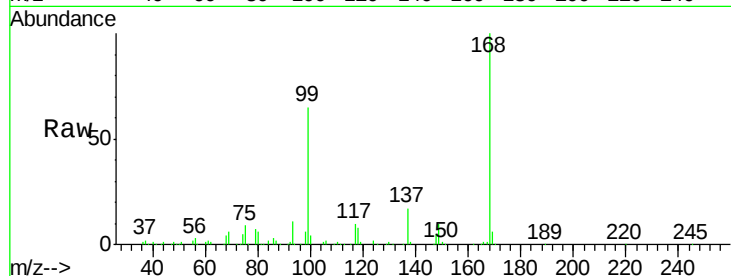
FK-BPM-02-J1-J2-J3-J4

Tot Ion:168 Resp: 158353

Ion Ratio Lower Upper

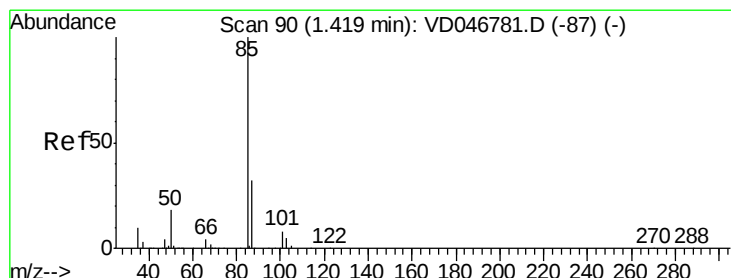
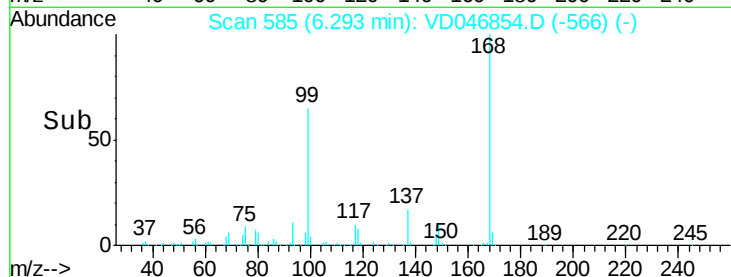
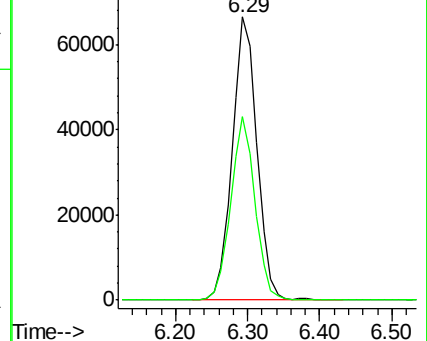
168 100

99 65.0 42.4 63.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.41 min Scan# 90

Delta R.T. -0.01 min

Lab File: VD046854.D

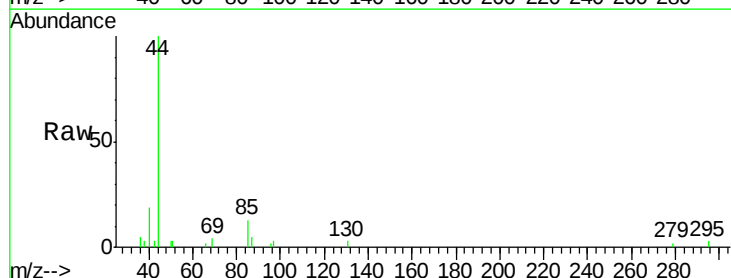
Acq: 23 Sep 2015 14:44

Tgt Ion: 85 Resp: 328

Ion Ratio Lower Upper

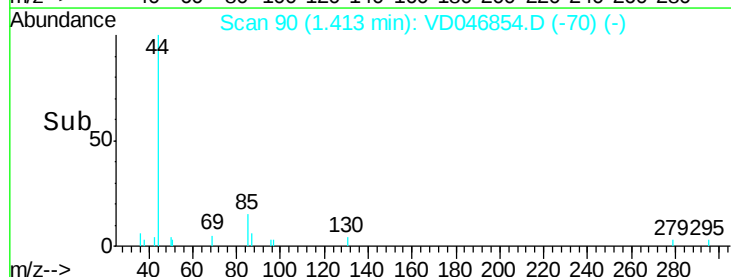
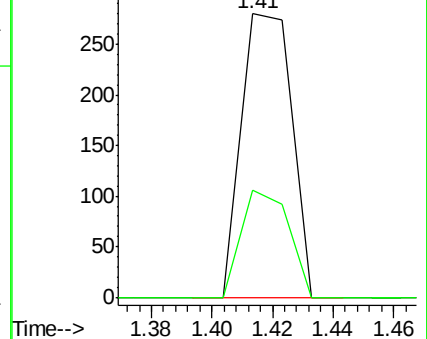
85 100

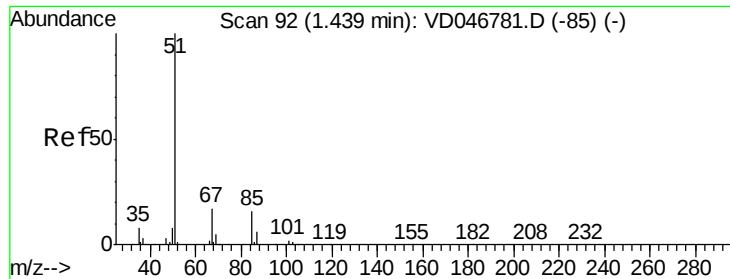
87 37.9 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.39 min Scan# 88

Delta R.T. -0.04 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

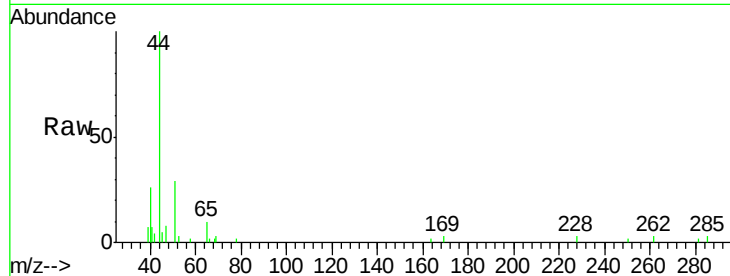
FK-BPM-02-J1-J2-J3-J4

Tot Ion: 51 Resp: 905

Ion Ratio Lower Upper

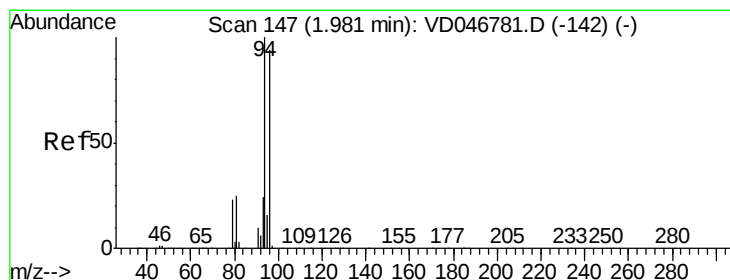
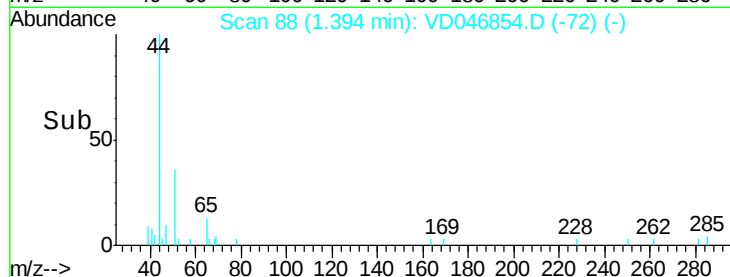
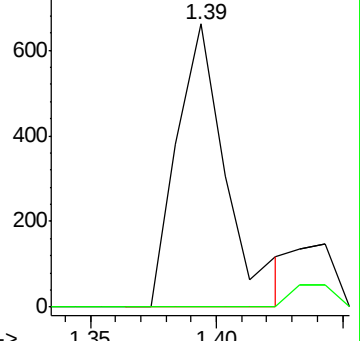
51 100

67 0.0 10.9 16.3#



Abundance Ion 51.00 (50.70 to 51.70): VDC

Ion 67.00 (66.70 to 67.70): VDC



#6

Bromomethane

Concen: Below Cal

RT: 1.97 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD046854.D

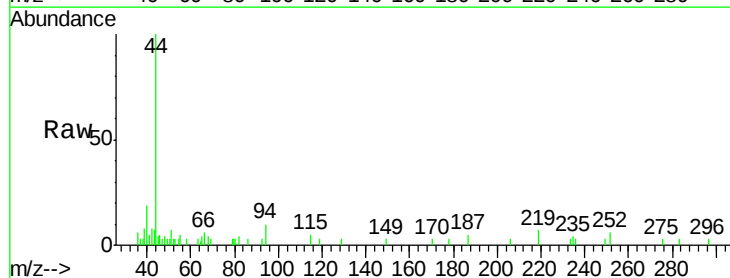
Acq: 23 Sep 2015 14:44

Tgt Ion: 94 Resp: 317

Ion Ratio Lower Upper

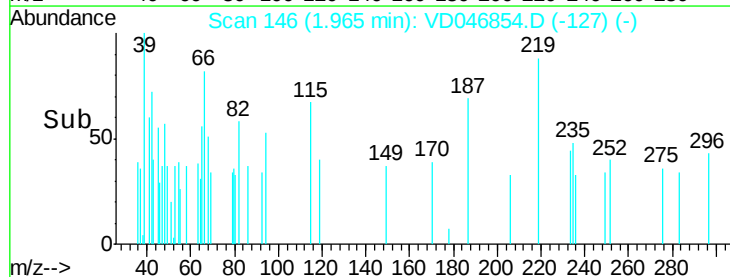
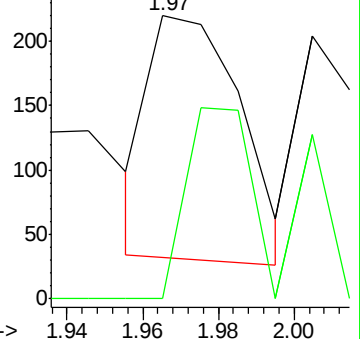
94 100

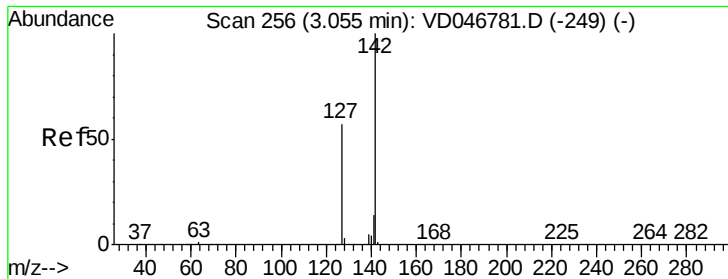
96 0.0 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#11

Methyl Iodide

Concen: 1.76 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.02 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

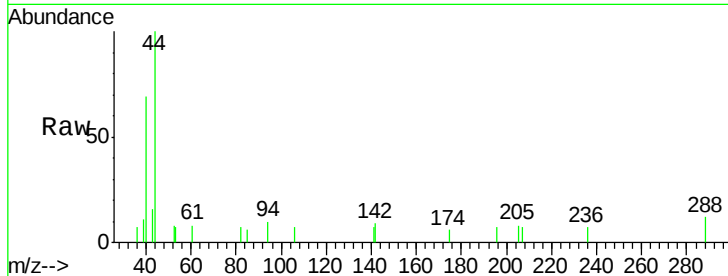
Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-02-J1-J2-J3-J4

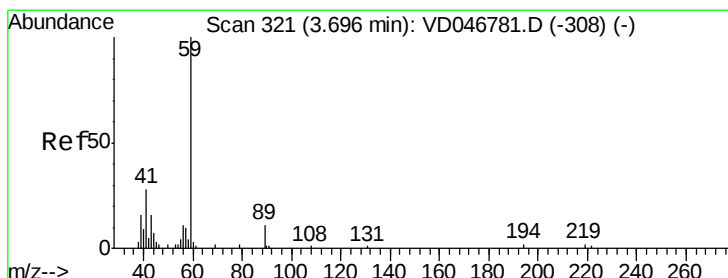
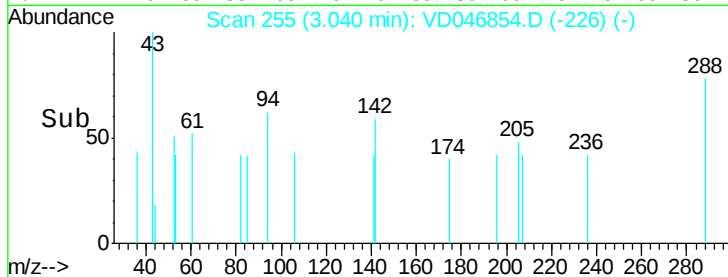
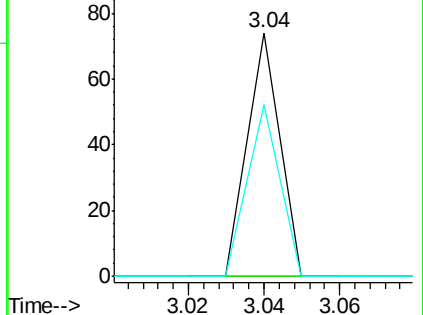
Tot Ion:142	Resp:	44
Ion Ratio	Lower	Upper
142	100	
127	0.0	41.2 61.8#
141	70.3	11.6 17.4#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



#12

Tert butyl alcohol

Concen: Below Cal

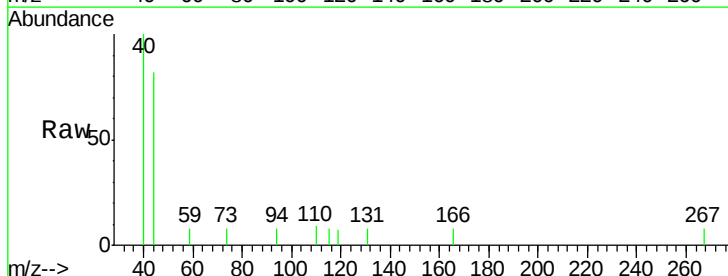
RT: 3.68 min Scan# 320

Delta R.T. -0.02 min

Lab File: VD046854.D

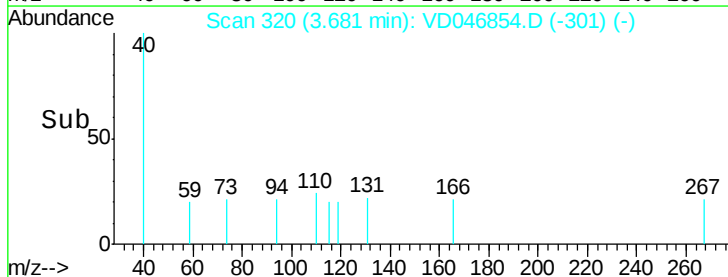
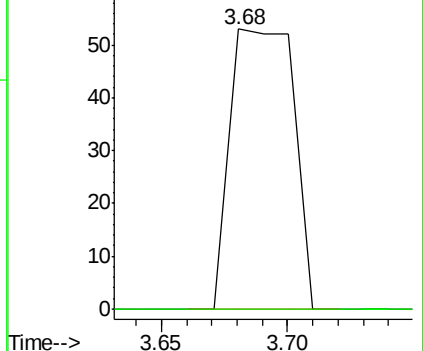
Acq: 23 Sep 2015 14:44

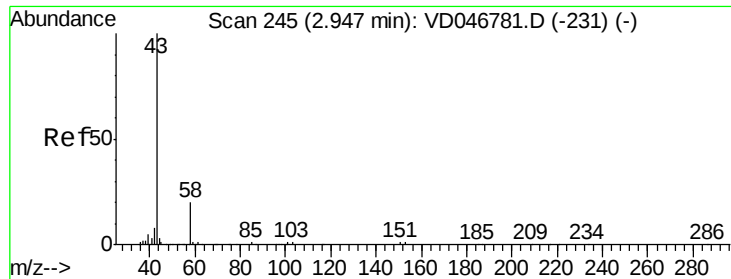
Tgt Ion: 59	Resp:	93
Ion Ratio	Lower	Upper
59	100	
57	0.0	7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): V

Ion 56.95 (56.65 to 57.65): V





#17

Acetone

Concen: 18.26 ug/l

RT: 2.93 min Scan# 244

Delta R.T. -0.02 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

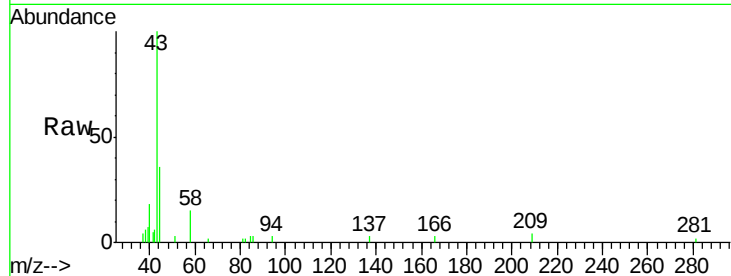
FK-BPM-02-J1-J2-J3-J4

Tot Ion: 43 Resp: 5081

Ion Ratio Lower Upper

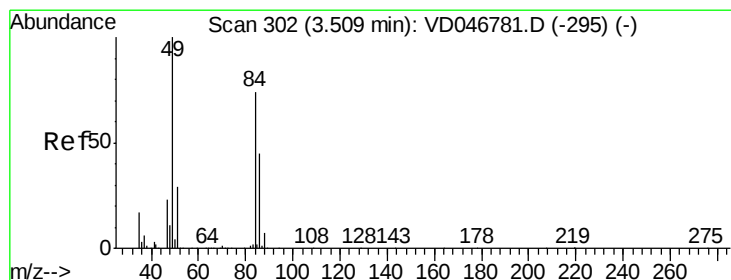
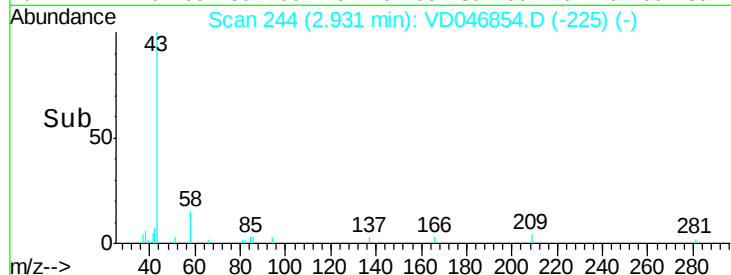
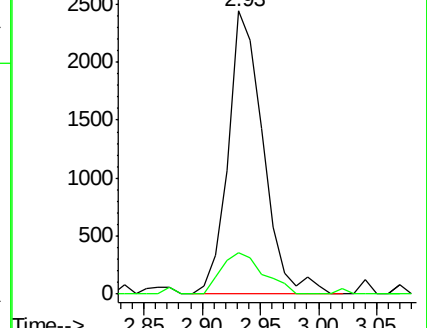
43 100

58 14.5 16.6 24.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#21

Methylene Chloride

Concen: 2.46 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Tgt Ion: 84 Resp: 3716

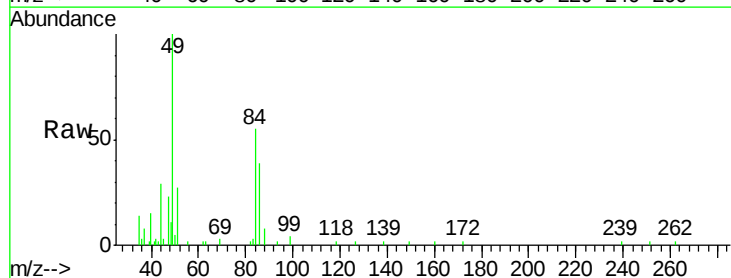
Ion Ratio Lower Upper

84 100

49 180.5 122.1 183.1

51 48.8 33.6 50.4

86 70.7 48.3 72.5

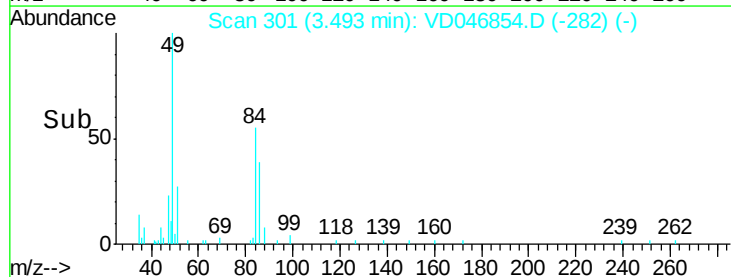
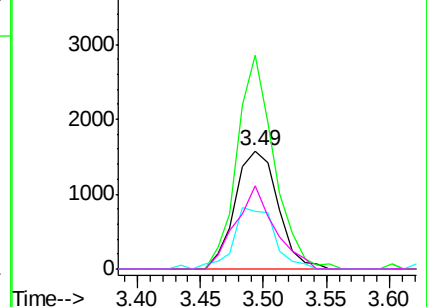


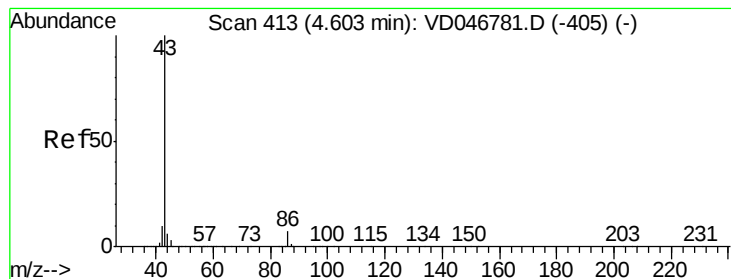
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#24

Vinyl Acetate

Concen: 15.03 ug/l

RT: 4.60 min Scan# 413

Delta R.T. -0.01 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

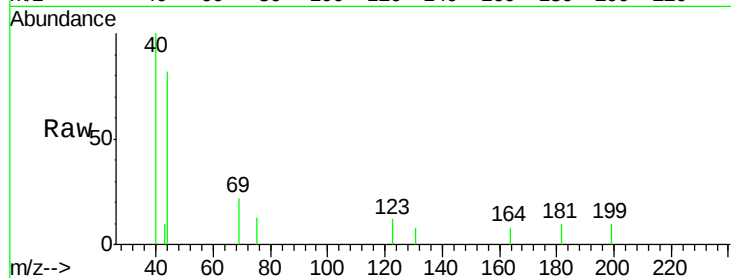
FK-BPM-02-J1-J2-J3-J4

Tot Ion: 43 Resp: 39

Ion Ratio Lower Upper

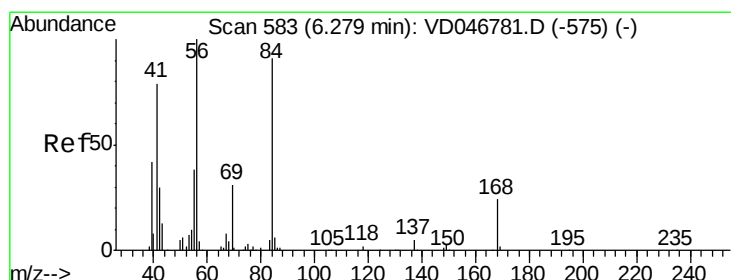
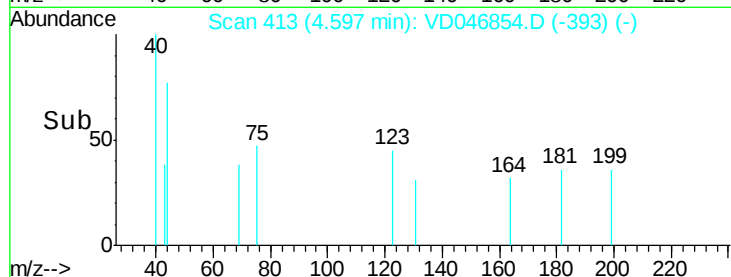
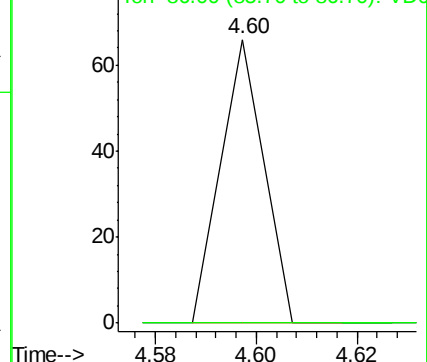
43 100

86 0.0 4.9 7.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#31

Cyclohexane

Concen: 1.69 ug/l

RT: 6.29 min Scan# 583

Delta R.T. 0.01 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

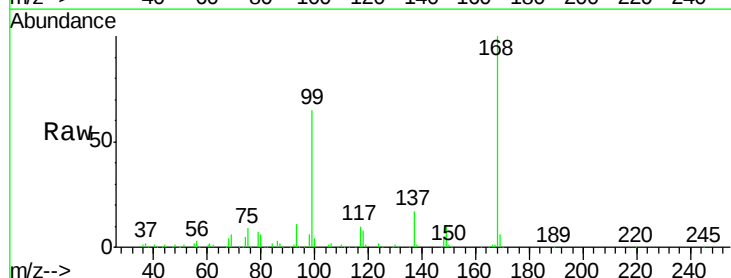
Tgt Ion: 56 Resp: 4171

Ion Ratio Lower Upper

56 100

69 242.9 23.4 35.0#

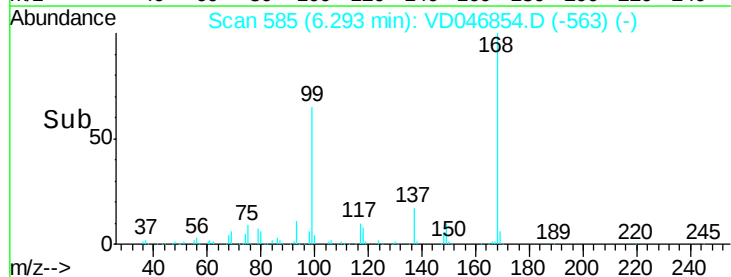
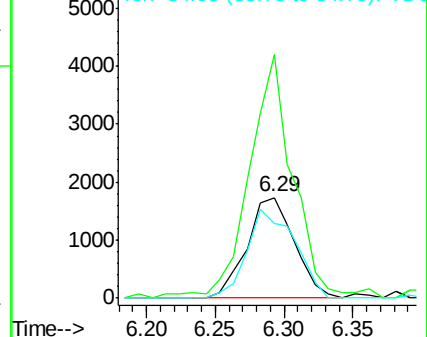
84 74.1 63.8 95.8

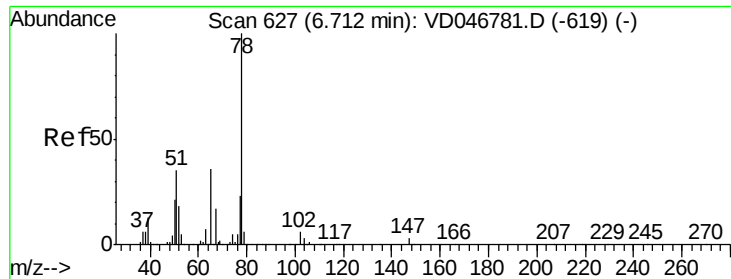


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

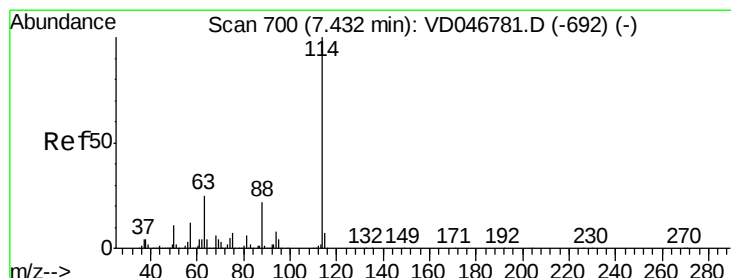
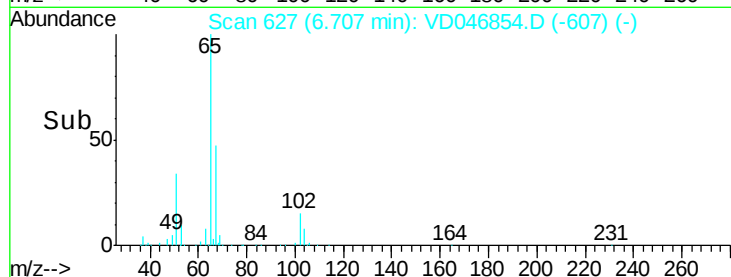
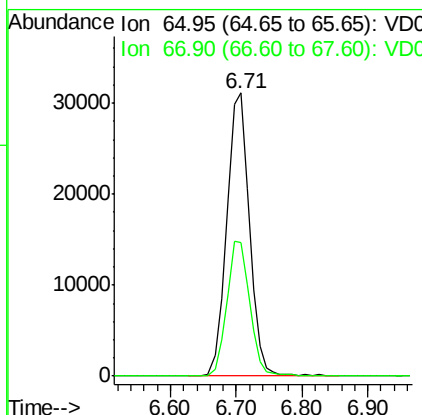
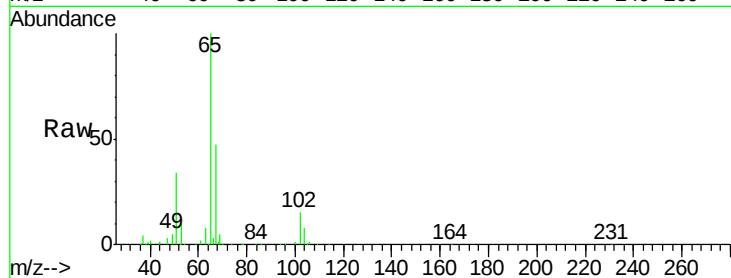




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.71 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: VD046854.D
 Acq: 23 Sep 2015 14:44

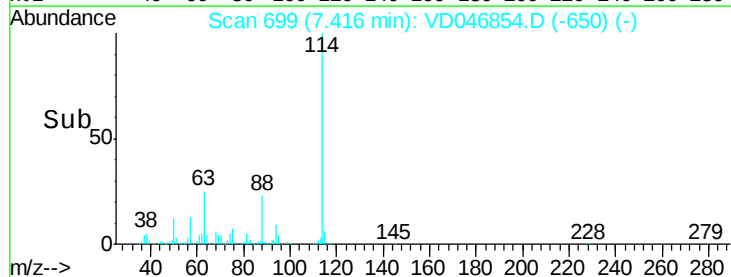
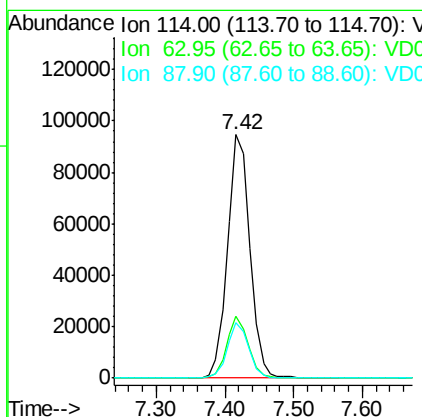
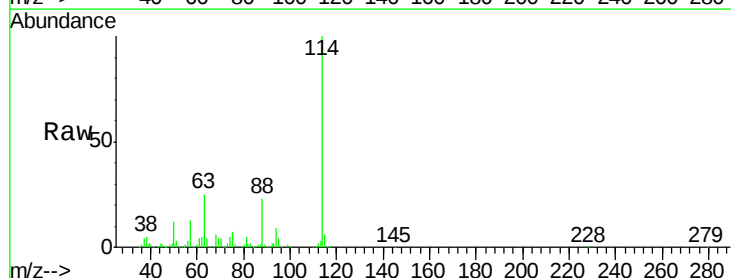
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-BPM-02-J1-J2-J3-J4

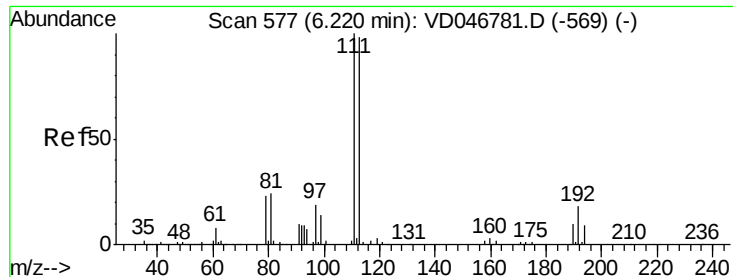
Tot Ion: 65 Resp: 75328
 Ion Ratio Lower Upper
 65 100
 67 47.3 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 699
 Delta R.T. -0.02 min
 Lab File: VD046854.D
 Acq: 23 Sep 2015 14:44

Tgt Ion: 114 Resp: 212910
 Ion Ratio Lower Upper
 114 100
 63 25.4 0.0 49.8
 88 22.9 0.0 43.6

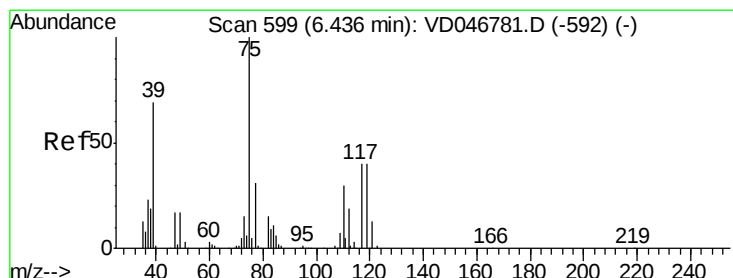
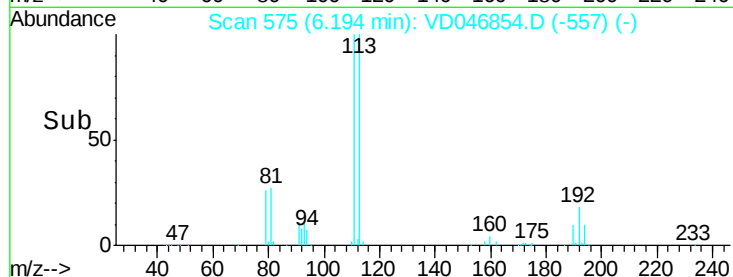
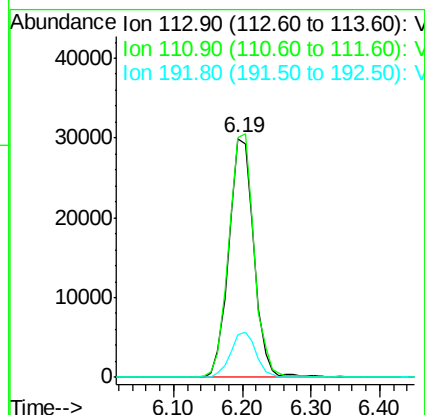
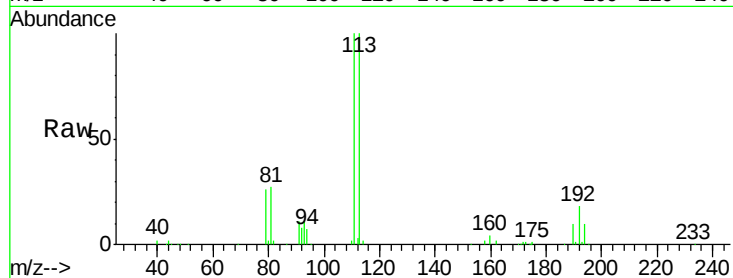




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.19 min Scan# 575
 Delta R.T. -0.03 min
 Lab File: VD046854.D
 Acq: 23 Sep 2015 14:44

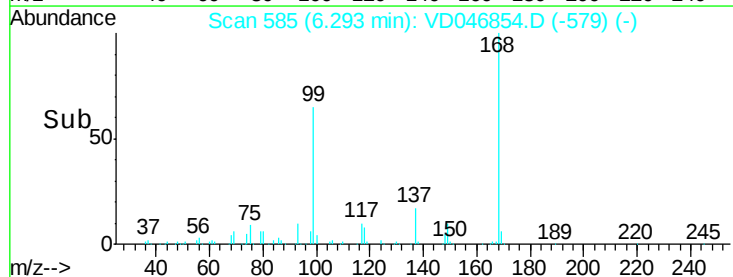
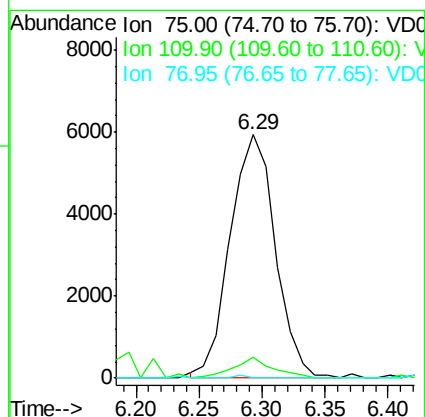
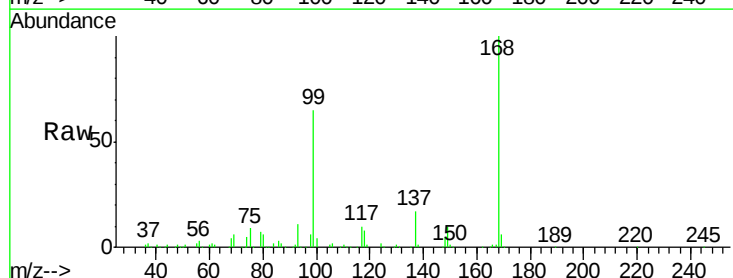
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-BPM-02-J1-J2-J3-J4

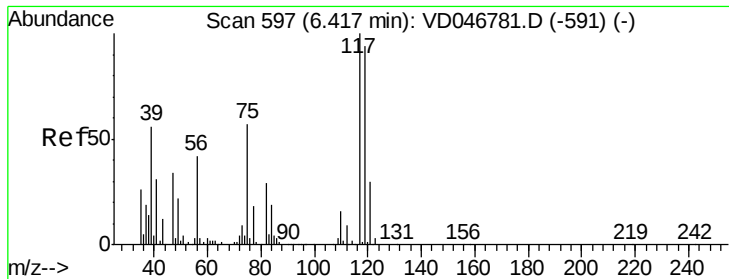
Tot Ion:113 Resp: 75354
 Ion Ratio Lower Upper
 113 100
 111 100.2 79.4 119.0
 192 17.8 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 5.92 ug/l
 RT: 6.29 min Scan# 585
 Delta R.T. -0.14 min
 Lab File: VD046854.D
 Acq: 23 Sep 2015 14:44

Tgt Ion: 75 Resp: 14719
 Ion Ratio Lower Upper
 75 100
 110 8.8 13.7 41.0#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.80 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.12 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-02-J1-J2-J3-J4

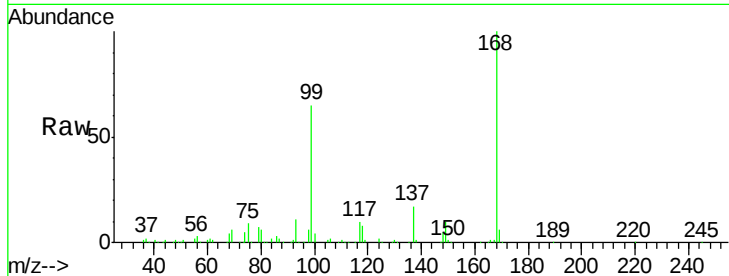
Tot Ion:117 Resp: 14998

Ion Ratio Lower Upper

117 100

119 6.0 76.2 114.4#

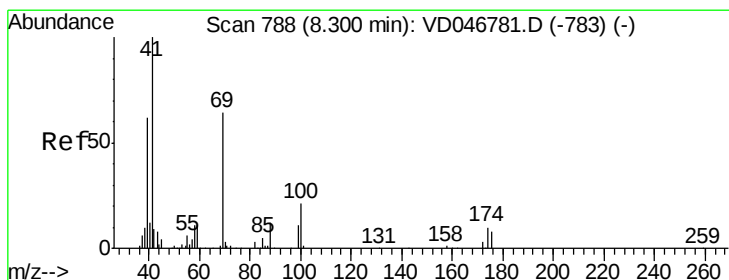
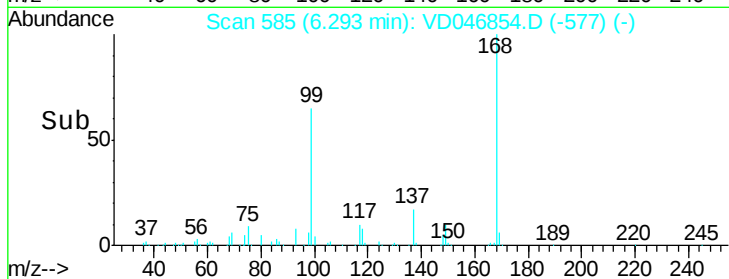
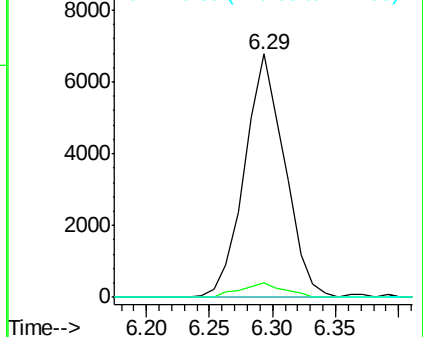
121 0.0 24.5 36.7#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#49

1,4-Dioxane

Concen: 7.22 ug/l

RT: 8.42 min Scan# 801

Delta R.T. 0.12 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

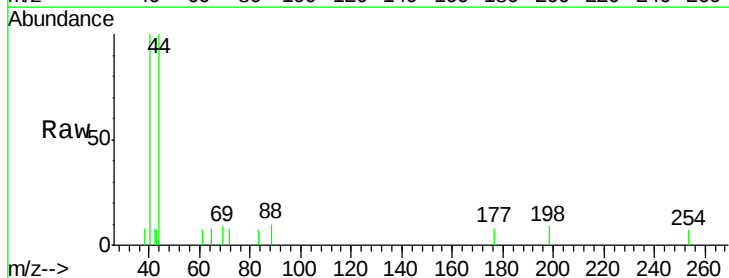
Tgt Ion: 88 Resp: 43

Ion Ratio Lower Upper

88 100

43 70.8 50.0 75.0

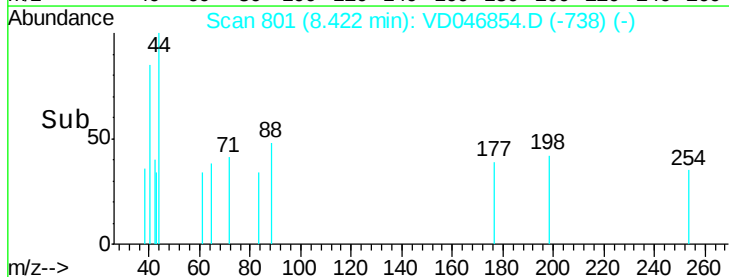
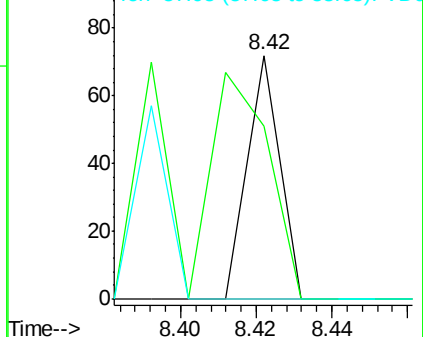
58 0.0 48.3 72.5#

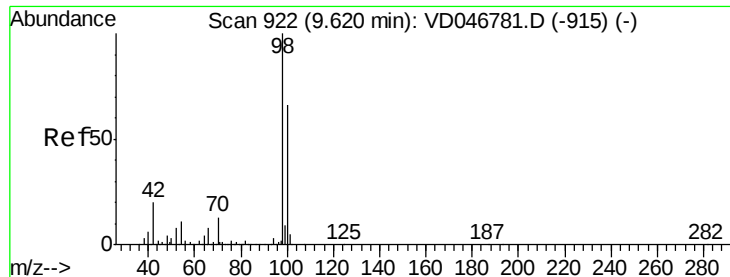


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

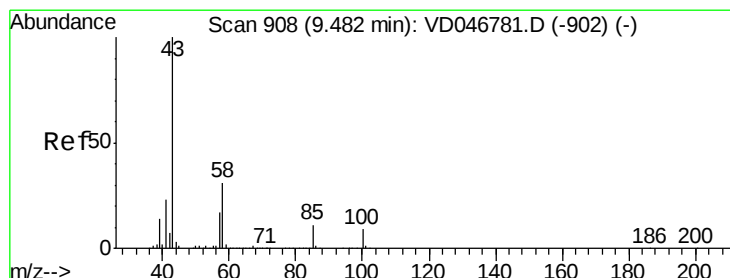
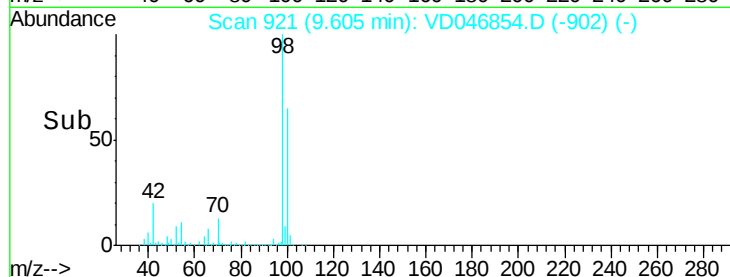
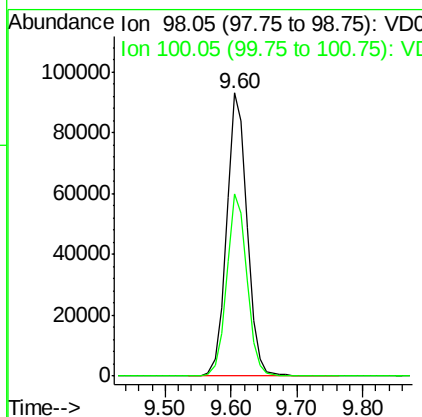
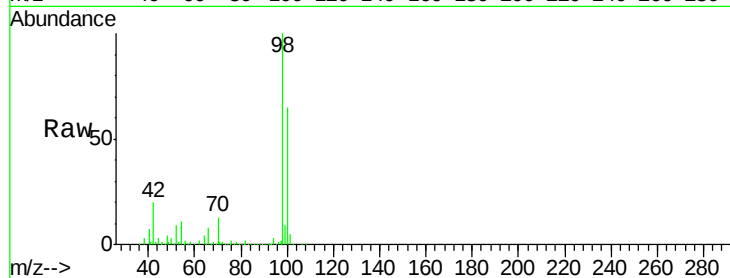




#50
Toluene-d8
Concen: 7.22 ug/l
RT: 9.60 min Scan# 921
Delta R.T. -0.02 min
Lab File: VD046854.D
Acq: 23 Sep 2015 14:44

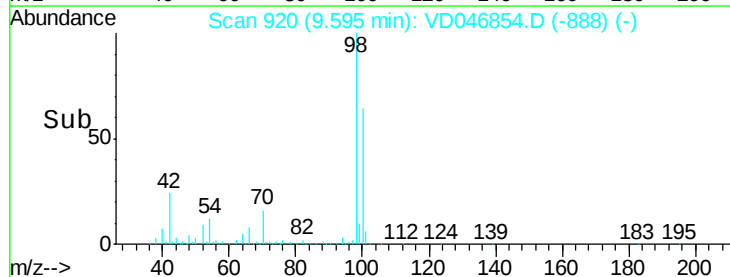
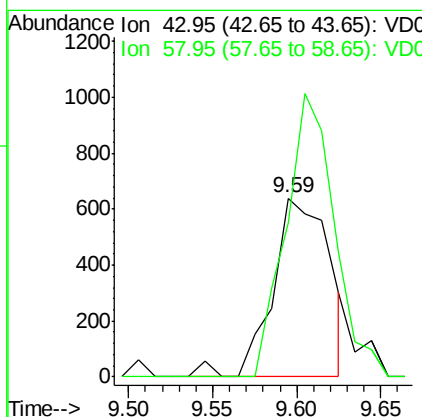
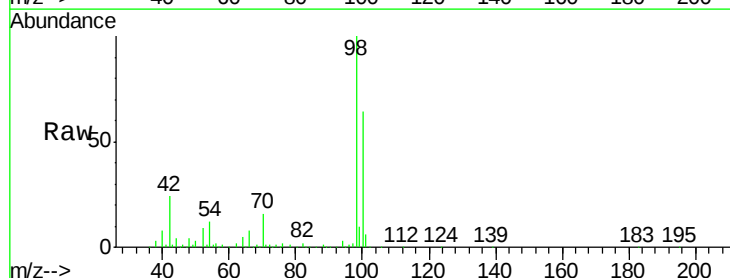
Instrument :
MSVOA_D
ClientSampleId :
FK-BPM-02-J1-J2-J3-J4

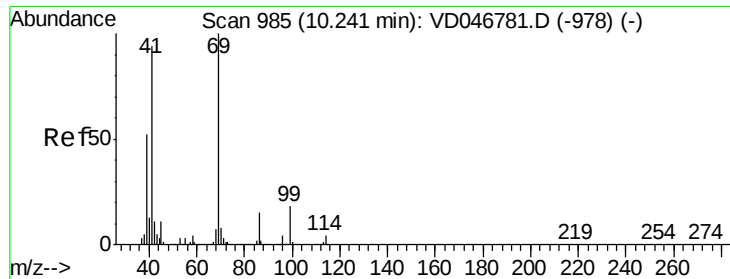
Tot Ion: 98 Resp: 202539
Ion Ratio Lower Upper
98 100
100 64.6 49.9 74.9



#51
4-Methyl-2-Pentanone
Concen: 1.97 ug/l
RT: 9.59 min Scan# 920
Delta R.T. 0.11 min
Lab File: VD046854.D
Acq: 23 Sep 2015 14:44

Tgt Ion: 43 Resp: 1500
Ion Ratio Lower Upper
43 100
58 85.9 22.2 33.2#





#56

Ethyl methacrylate

Concen: 4.12 ug/l

RT: 10.20 min Scan# 981

Delta R.T. -0.04 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-02-J1-J2-J3-J4

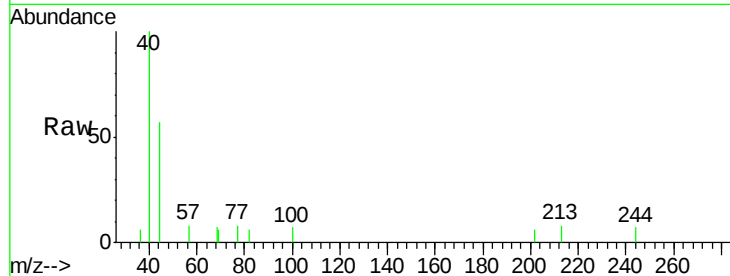
Tot Ion: 69 Resp: 277

Ion Ratio Lower Upper

69 100

41 0.0 75.4 113.0#

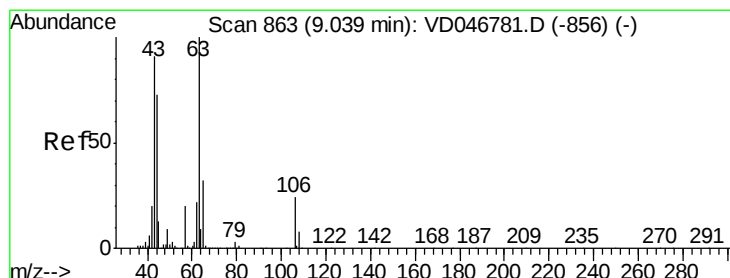
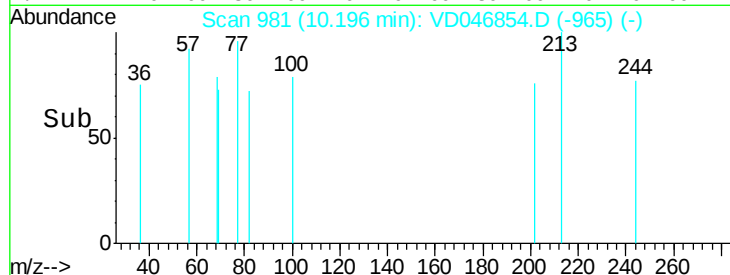
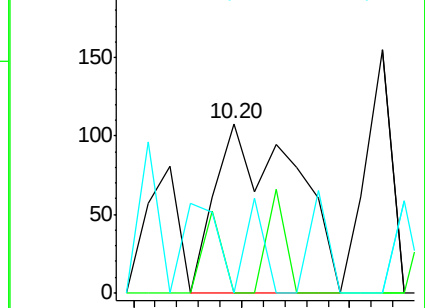
39 0.0 41.0 61.4#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 6.40 ug/l

RT: 8.91 min Scan# 851

Delta R.T. -0.12 min

Lab File: VD046854.D

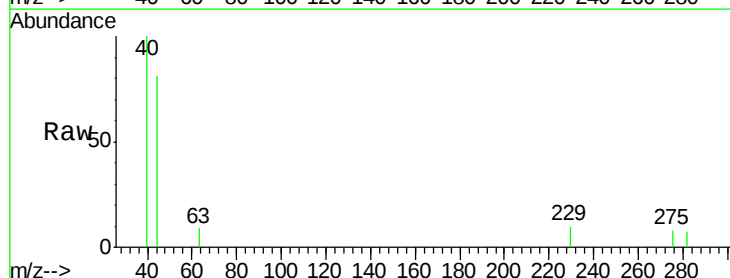
Acq: 23 Sep 2015 14:44

Tgt Ion: 63 Resp: 39

Ion Ratio Lower Upper

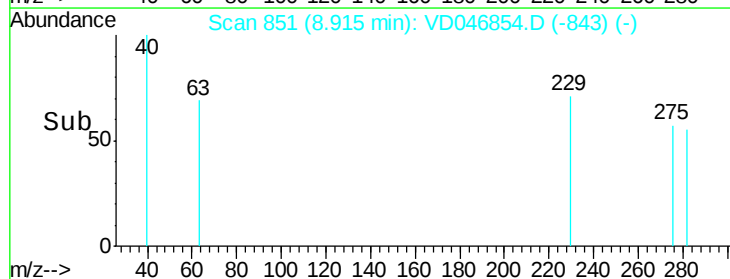
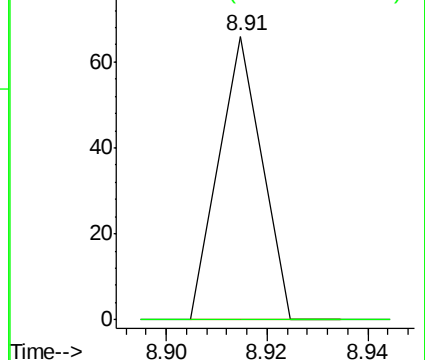
63 100

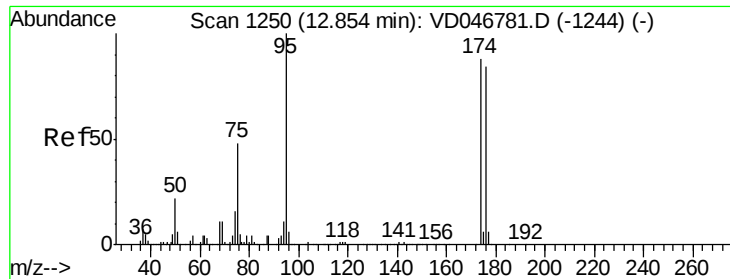
106 0.0 17.8 26.8#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.84 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-02-J1-J2-J3-J4

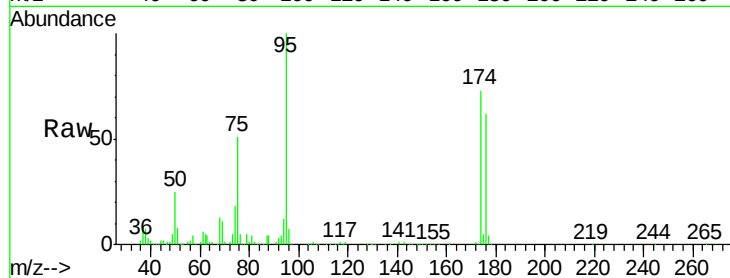
Tot Ion: 95 Resp: 88906

Ion Ratio Lower Upper

95 100

174 72.6 0.0 149.8

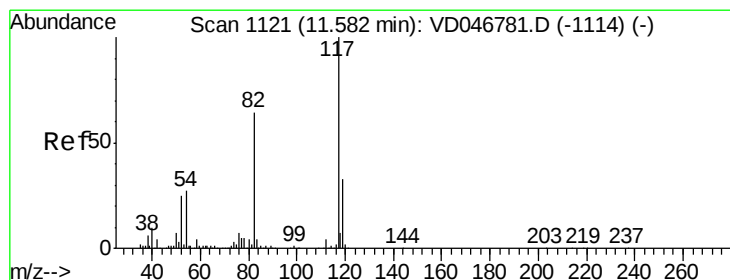
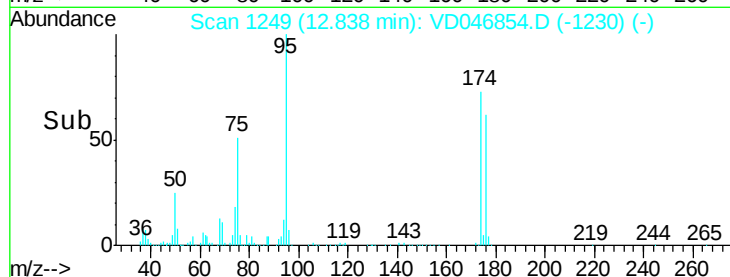
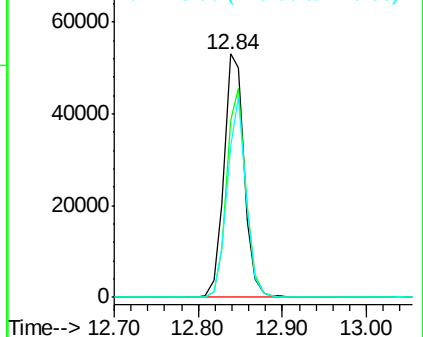
176 62.3 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

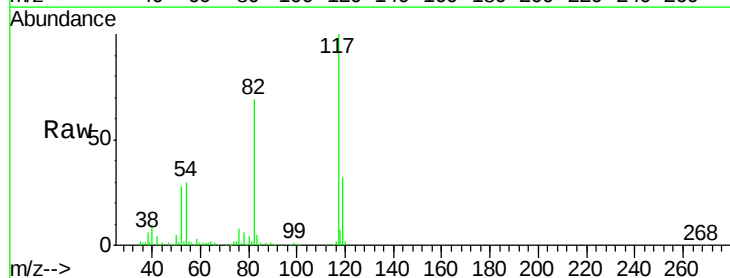
Tgt Ion: 117 Resp: 202945

Ion Ratio Lower Upper

117 100

82 68.6 50.6 75.8

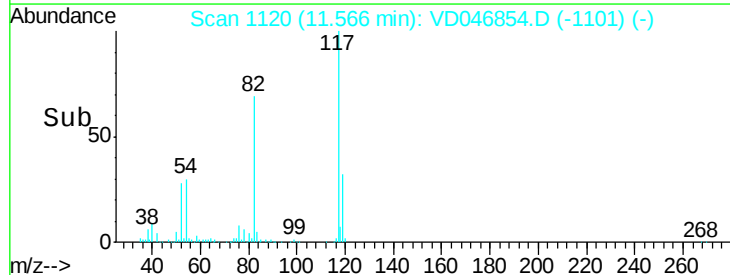
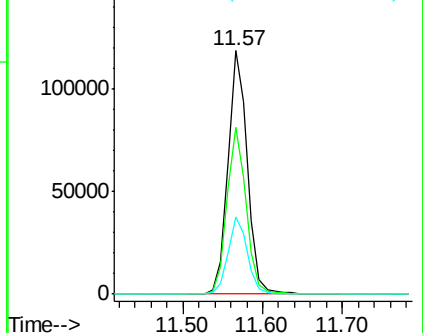
119 31.8 25.8 38.8

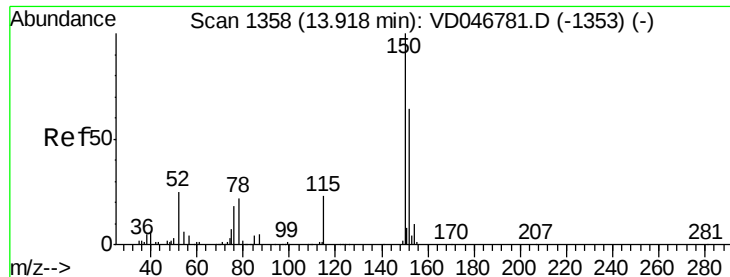


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.91 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-02-J1-J2-J3-J4

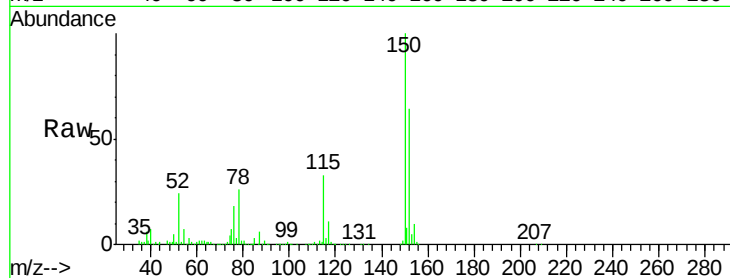
Tot Ion:152 Resp: 105695

Ion Ratio Lower Upper

152 100

115 51.9 26.2 78.6

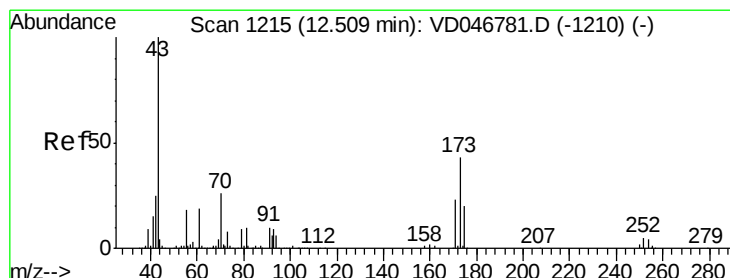
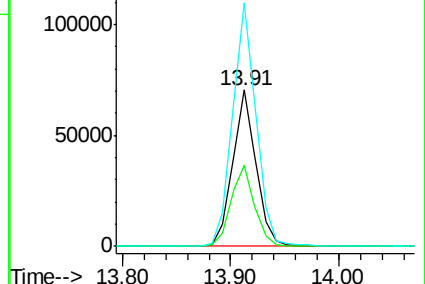
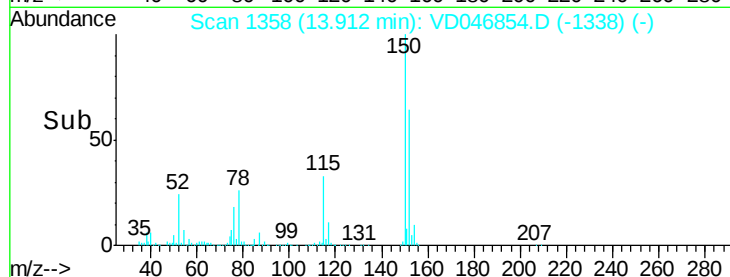
150 156.0 0.0 311.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 4.73 ug/l

RT: 12.50 min Scan# 1215

Delta R.T. -0.01 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Tgt Ion: 43 Resp: 33

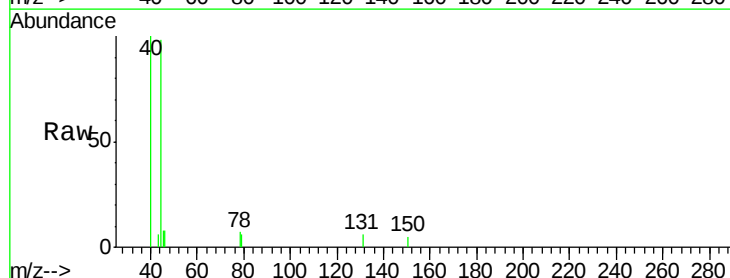
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 0.0 14.5 21.7#

61 0.0 14.6 21.8#

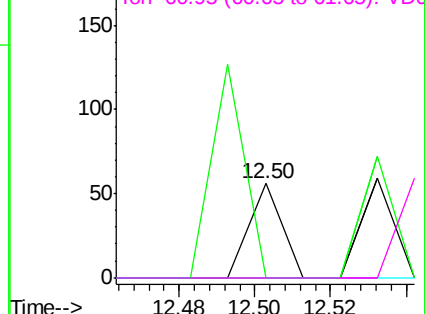
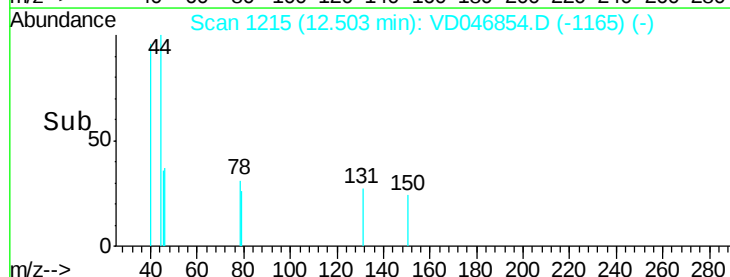


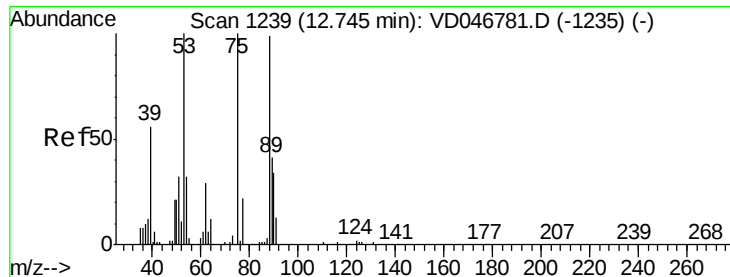
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 119.45 ug/l

RT: 12.84 min Scan# 1249

Delta R.T. 0.09 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-02-J1-J2-J3-J4

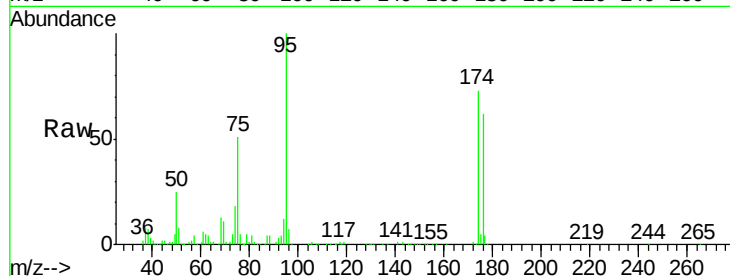
Tot Ion: 75 Resp: 44290

Ion Ratio Lower Upper

75 100

53 0.4 82.3 123.5#

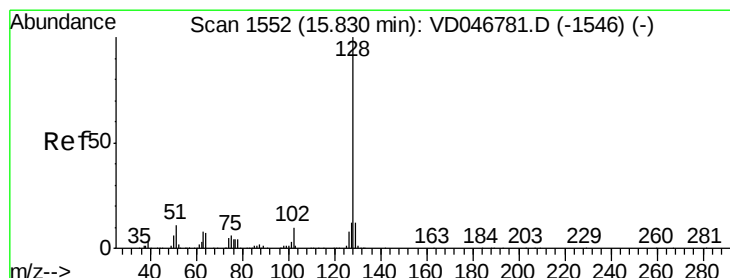
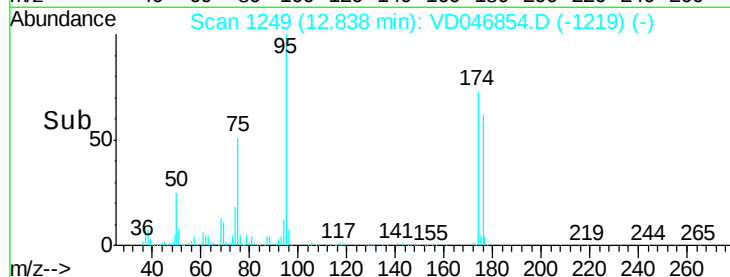
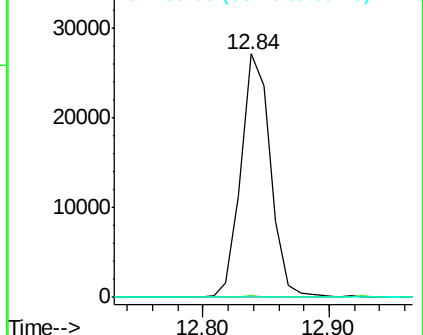
89 0.0 36.6 54.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#95

Naphthalene

Concen: 2.79 ug/l

RT: 15.81 min Scan# 1551

Delta R.T. -0.02 min

Lab File: VD046854.D

Acq: 23 Sep 2015 14:44

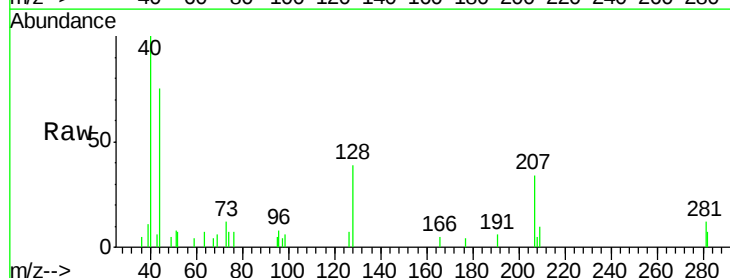
Tgt Ion: 128 Resp: 971

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.6#

129 0.0 8.6 12.8#



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

