

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046817.D
 Acq On : 21 Sep 2015 19:46
 Operator : FY/SY
 Sample : G3727-02
 Misc : 6.01µm/5mL/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MMB6A

Quant Time: Sep 22 01:11:09 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	259778	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	362854	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.57	117	279619	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.91	152	135859	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.70	65	119613	44.29	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	88.58%	
35) Dibromofluoromethane	6.19	113	135048	47.57	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	95.14%	
50) Toluene-d8	9.60	98	386241	43.13	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	86.26%	
62) 4-Bromofluorobenzene	12.84	95	135102	37.46	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	74.92%	

Target Compounds

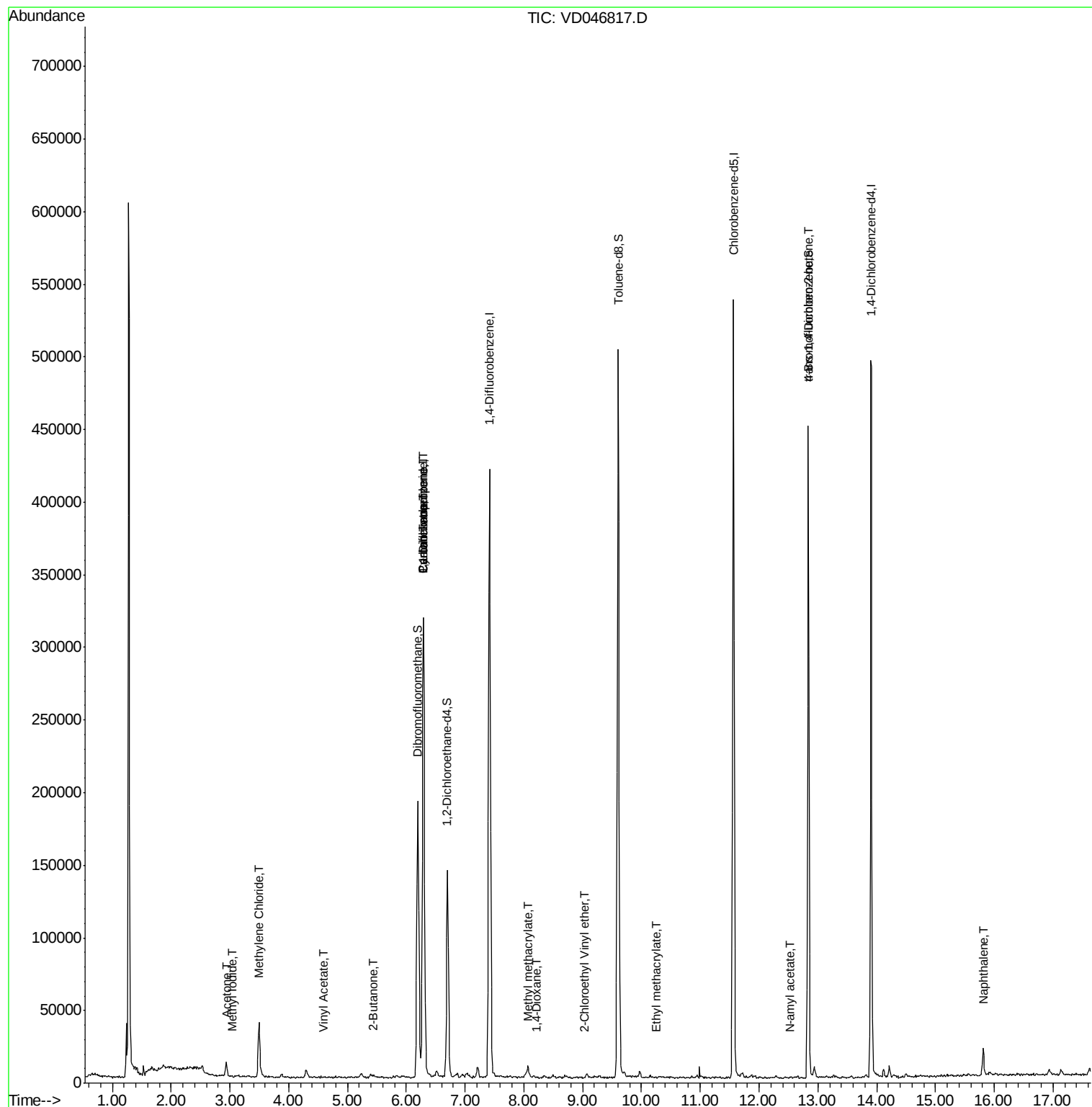
						Qvalue
2) Dichlorodifluoromethane	1.41	85	1874	Below Cal		95
3) Chlorodifluoromethane	1.43	51	458	Below Cal		93
6) Bromomethane	2.00	94	342	Below Cal	#	24
11) Methyl Iodide	3.04	142	70	1.76	ug/l #	35
12) Tert butyl alcohol	3.69	59	183	Below Cal	#	74
17) Acetone	2.94	43	13943	30.55	ug/l	93
21) Methylene Chloride	3.49	84	17021	6.87	ug/l	95
24) Vinyl Acetate	4.60	43	36	15.01	ug/l #	82
26) 2-Butanone	5.44	43	3289	6.41	ug/l #	89
31) Cyclohexane	6.29	56	7273	1.79	ug/l #	1
36) 1,1-Dichloropropene	6.29	75	21934	5.17	ug/l #	51
38) Carbon Tetrachloride	6.29	117	22261	5.05	ug/l #	16
48) Methyl methacrylate	8.07	41	2986	1.09	ug/l #	81
49) 1,4-Dioxane	8.22	88	86	8.47	ug/l #	38
56) Ethyl methacrylate	10.24	69	399	4.08	ug/l #	75
58) 2-Chloroethyl Vinyl ether	9.01	63	31	6.36	ug/l #	53
74) N-amyl acetate	12.53	43	118	4.76	ug/l #	36
81) trans-1,4-Dichloro-2-buten	12.84	75	67324	140.58	ug/l #	9
95) Naphthalene	15.81	128	17647	8.22	ug/l	96

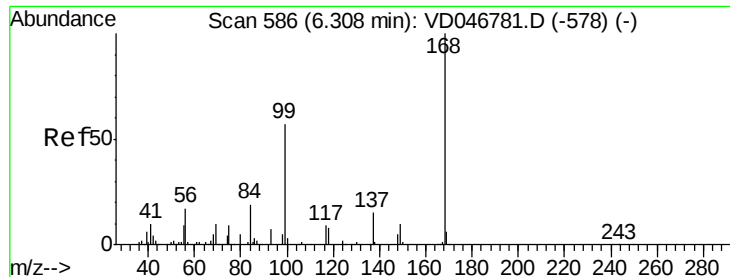
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.02 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

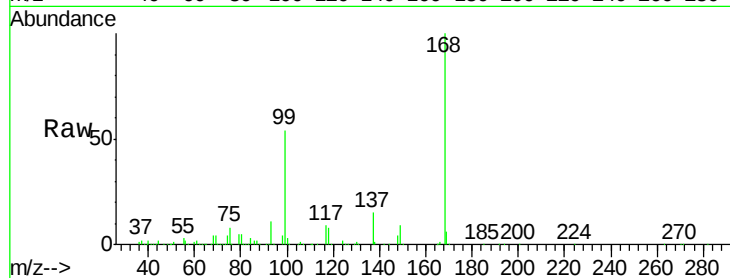
MMB6A

Tot Ion:168 Resp: 259778

Ion Ratio Lower Upper

168 100

99 53.7 42.4 63.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.29

120000

100000

80000

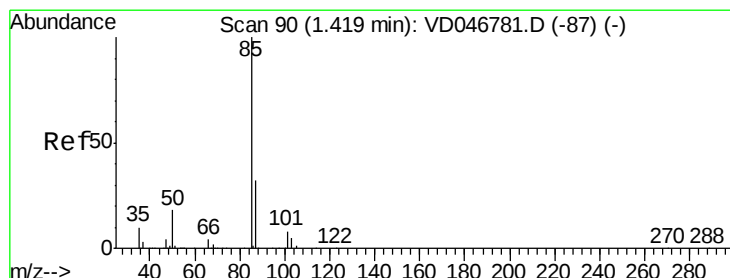
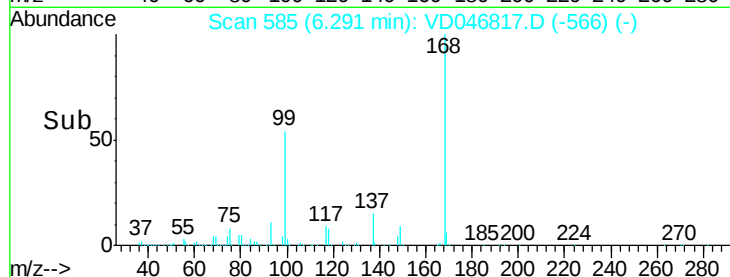
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.41 min Scan# 90

Delta R.T. -0.01 min

Lab File: VD046817.D

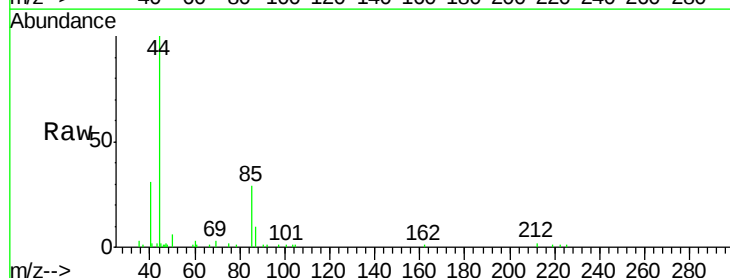
Acq: 21 Sep 2015 19:46

Tgt Ion: 85 Resp: 1874

Ion Ratio Lower Upper

85 100

87 35.1 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.41

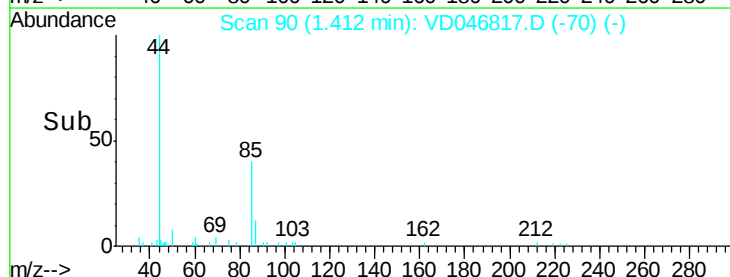
1500

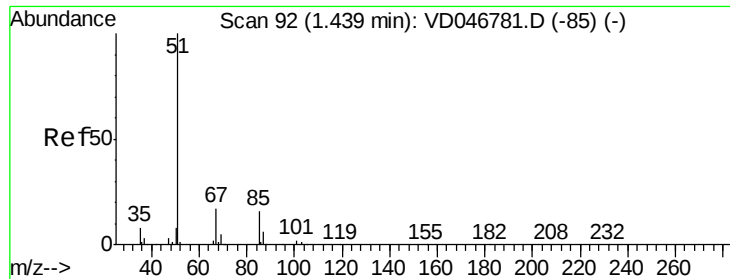
1000

500

0

Time-->





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.43 min Scan# 92

Delta R.T. -0.01 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

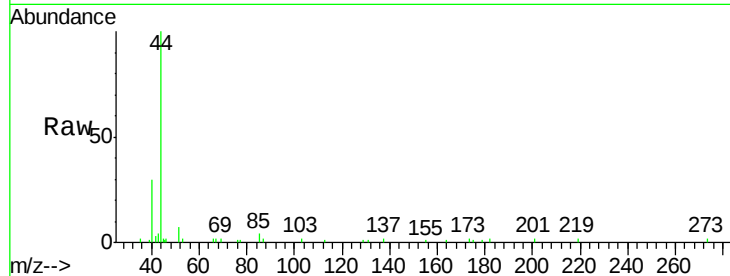
MMB6A

Tot Ion: 51 Resp: 458

Ion Ratio Lower Upper

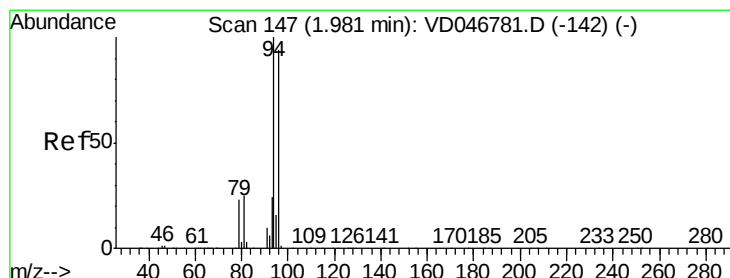
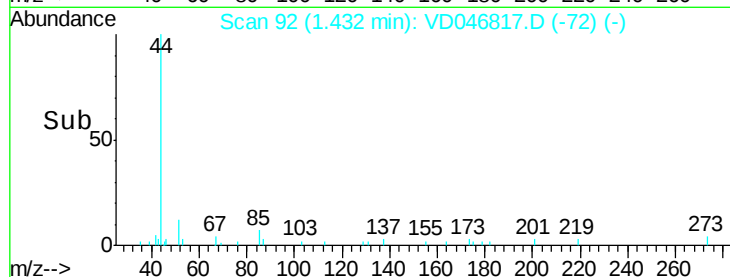
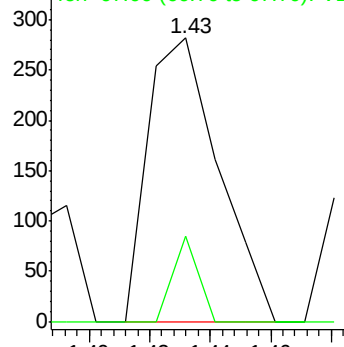
51 100

67 10.9 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: 2.00 min Scan# 150

Delta R.T. 0.02 min

Lab File: VD046817.D

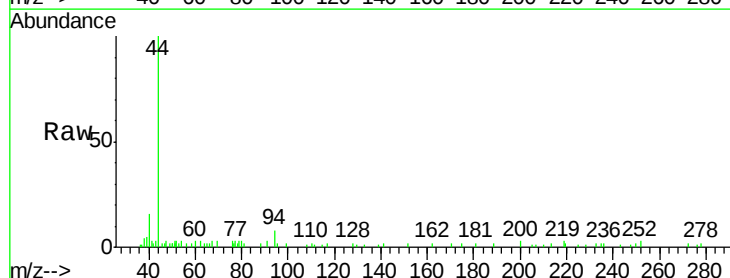
Acq: 21 Sep 2015 19:46

Tgt Ion: 94 Resp: 342

Ion Ratio Lower Upper

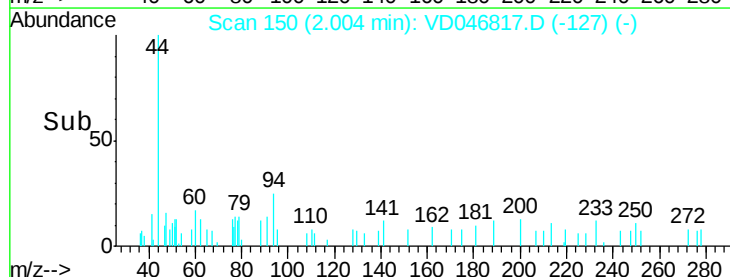
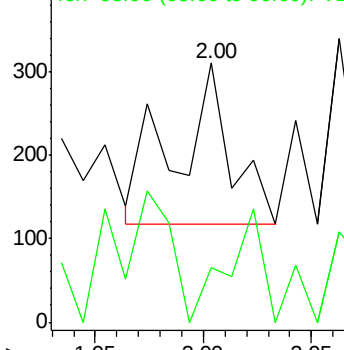
94 100

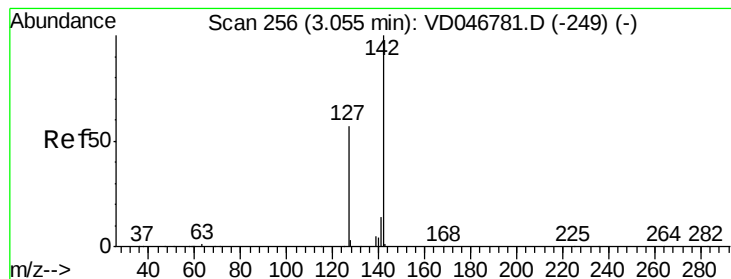
96 21.0 76.0 114.0#



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: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

MMB6A

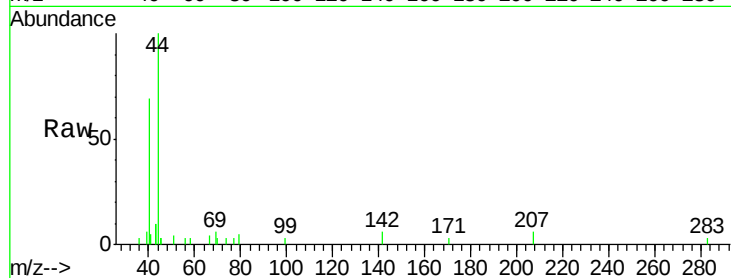
Tot Ion:142 Resp: 70

Ion Ratio Lower Upper

142 100

127 0.0 41.2 61.8#

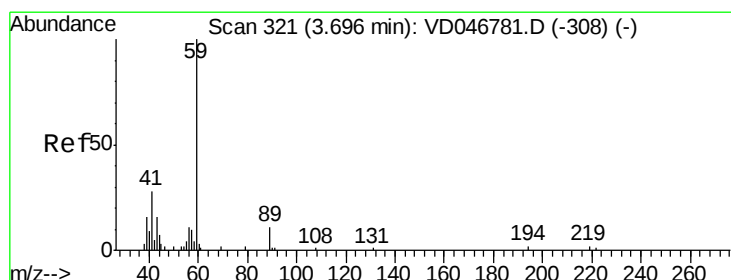
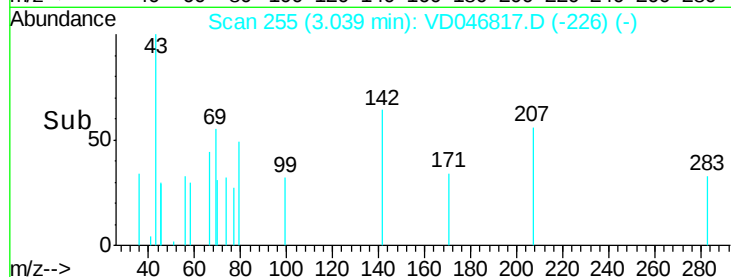
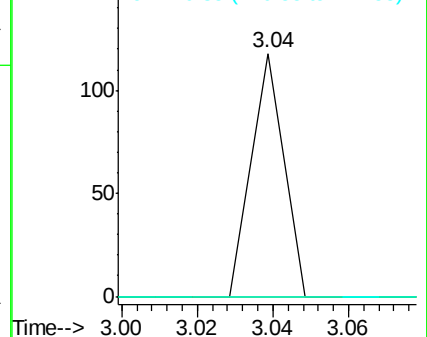
141 0.0 11.6 17.4#



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: 3.69 min Scan# 321

Delta R.T. -0.01 min

Lab File: VD046817.D

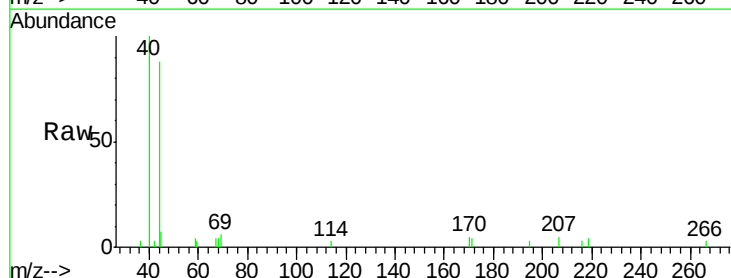
Acq: 21 Sep 2015 19:46

Tgt Ion: 59 Resp: 183

Ion Ratio Lower Upper

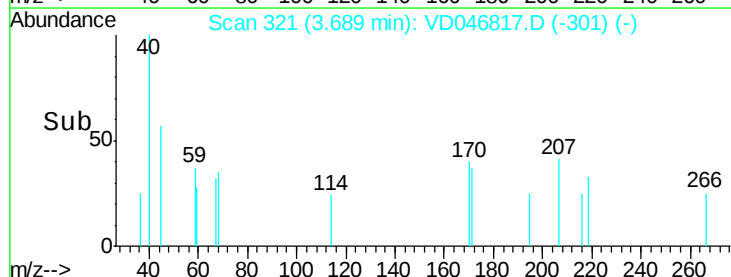
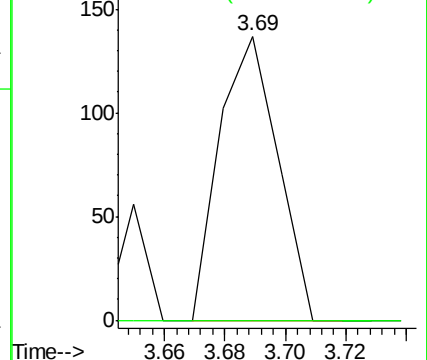
59 100

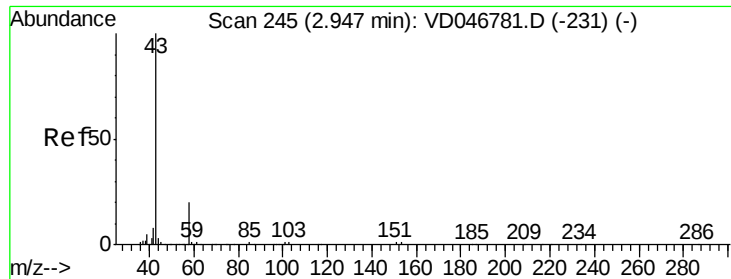
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): V

Ion 56.95 (56.65 to 57.65): V





#17

Acetone

Concen: 30.55 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.01 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

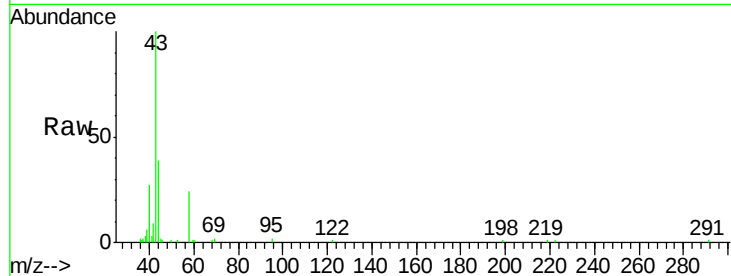
MMB6A

Tot Ion: 43 Resp: 13943

Ion Ratio Lower Upper

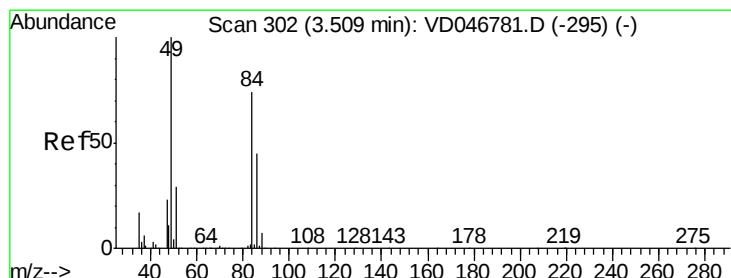
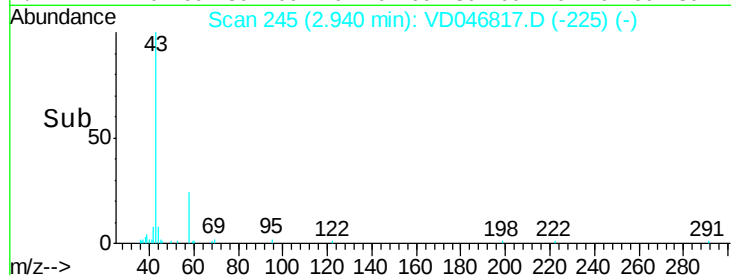
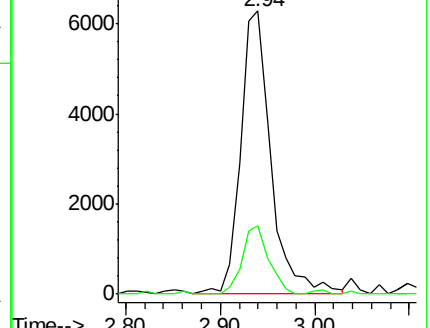
43 100

58 24.0 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: 6.87 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Tgt Ion: 84 Resp: 17021

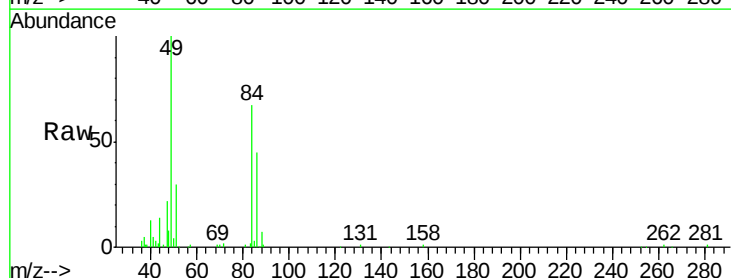
Ion Ratio Lower Upper

84 100

49 148.7 122.1 183.1

51 44.0 33.6 50.4

86 67.6 48.3 72.5

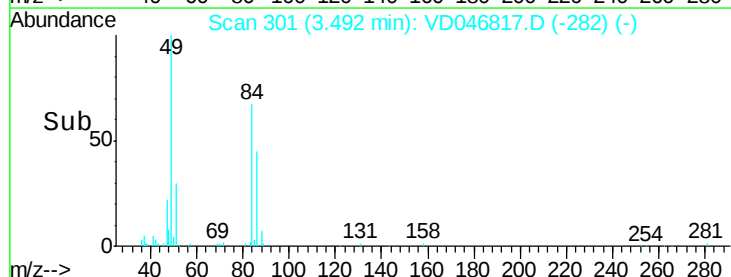
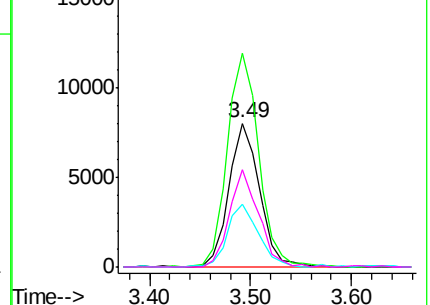


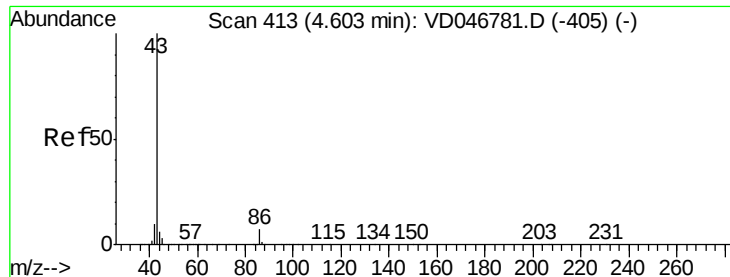
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 15.01 ug/l

RT: 4.60 min Scan# 413

Delta R.T. -0.01 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

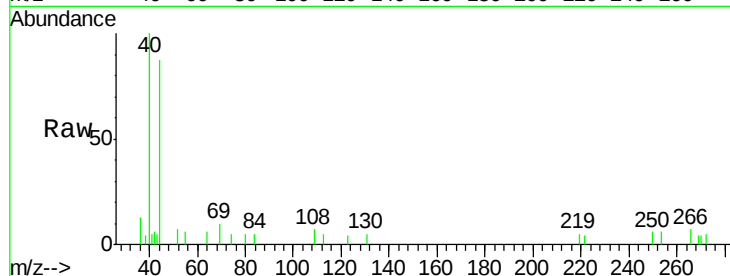
MMB6A

Tot Ion: 43 Resp: 36

Ion Ratio Lower Upper

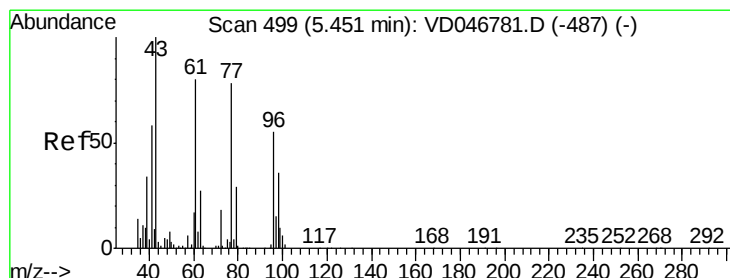
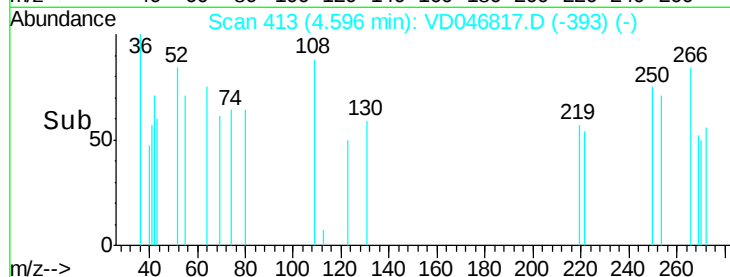
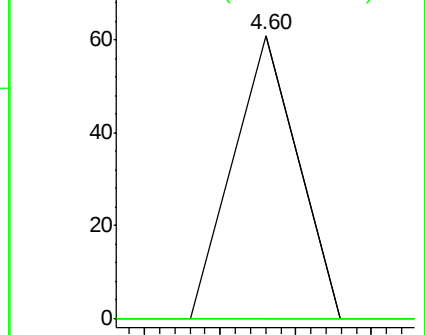
43 100

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



#26

2-Butanone

Concen: 6.41 ug/l

RT: 5.44 min Scan# 499

Delta R.T. -0.01 min

Lab File: VD046817.D

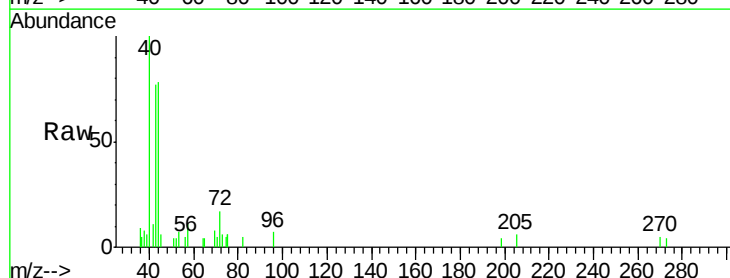
Acq: 21 Sep 2015 19:46

Tgt Ion: 43 Resp: 3289

Ion Ratio Lower Upper

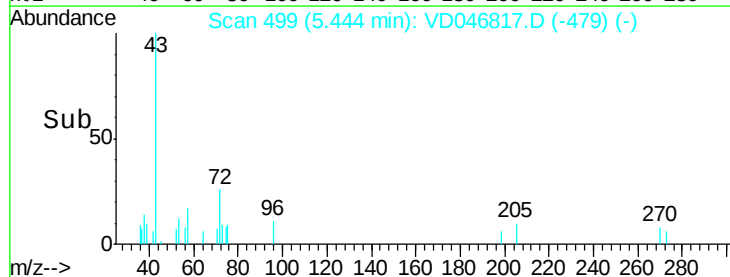
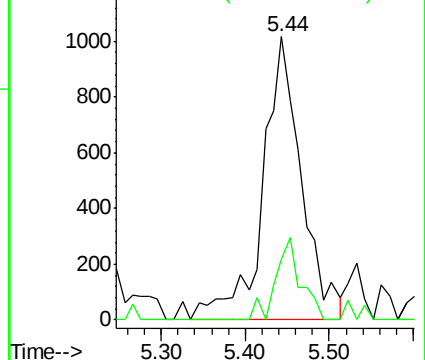
43 100

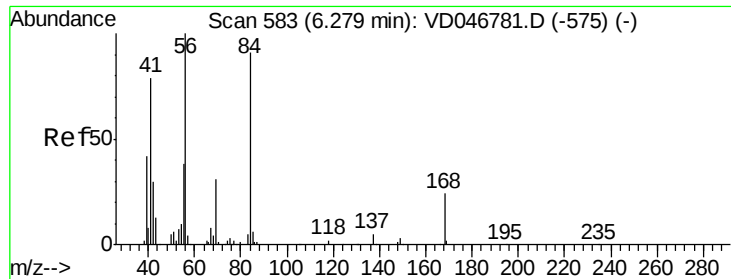
72 21.6 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

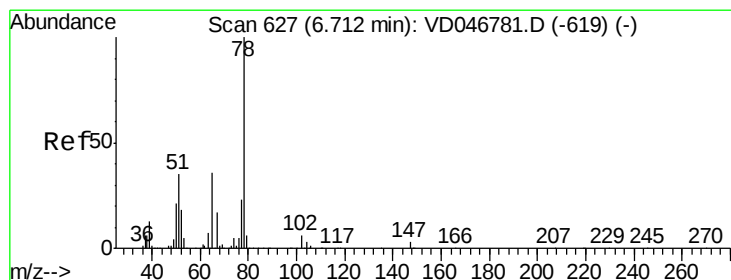
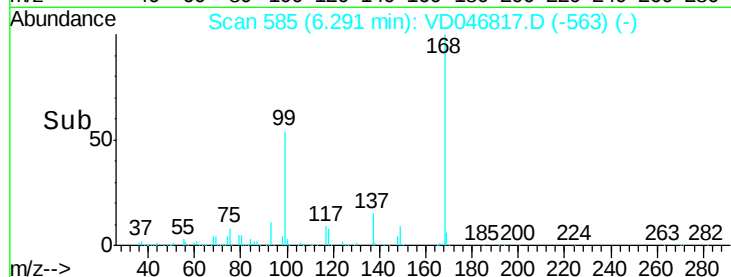
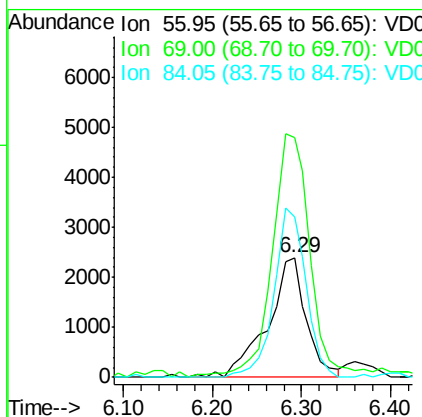
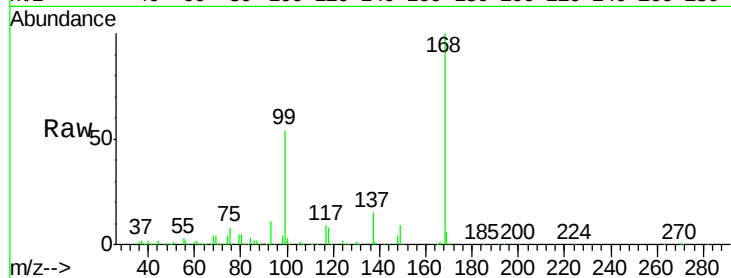




#31
Cyclohexane
Concen: 1.79 ug/l
RT: 6.29 min Scan# 585
Delta R.T. 0.01 min
Lab File: VD046817.D
Acq: 21 Sep 2015 19:46

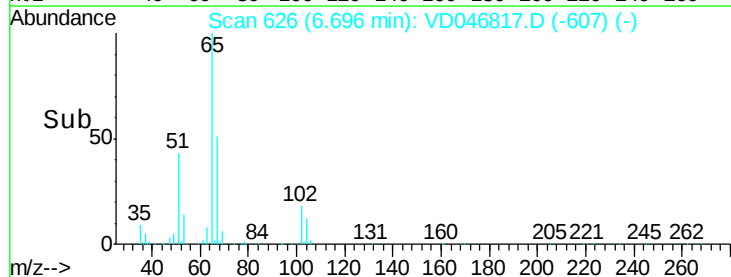
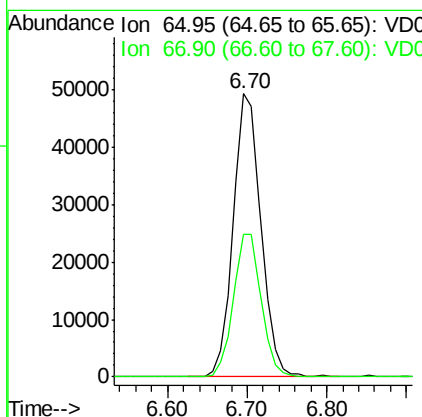
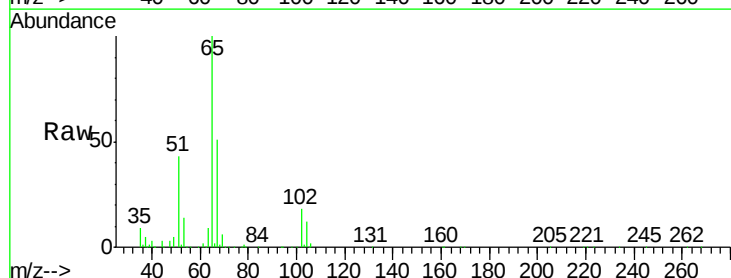
Instrument :
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MMB6A

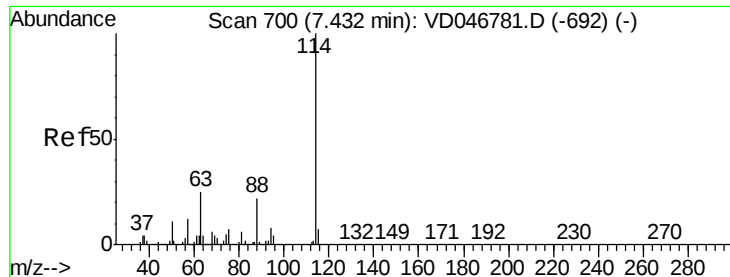
Tot Ion: 56 Resp: 7273
Ion Ratio Lower Upper
56 100
69 200.3 23.4 35.0#
84 134.1 63.8 95.8#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.70 min Scan# 626
Delta R.T. -0.02 min
Lab File: VD046817.D
Acq: 21 Sep 2015 19:46

Tgt Ion: 65 Resp: 119613
Ion Ratio Lower Upper
65 100
67 50.6 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: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

MMB6A

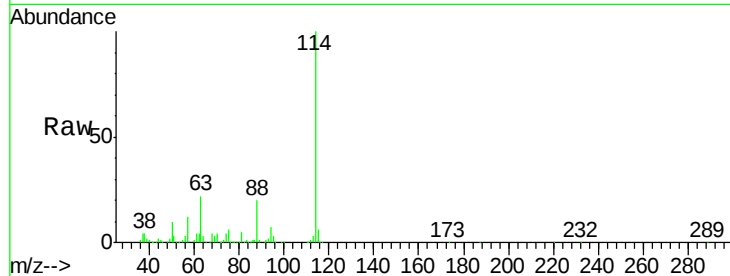
Tot Ion:114 Resp: 362854

Ion Ratio Lower Upper

114 100

63 22.4 0.0 49.8

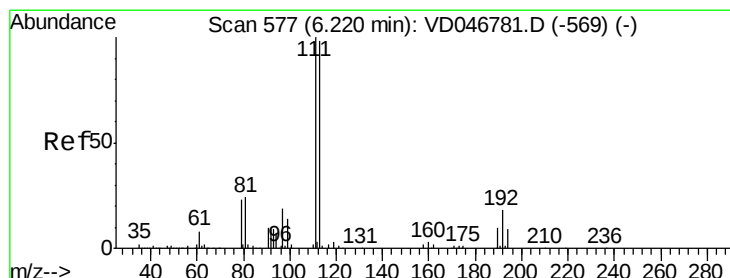
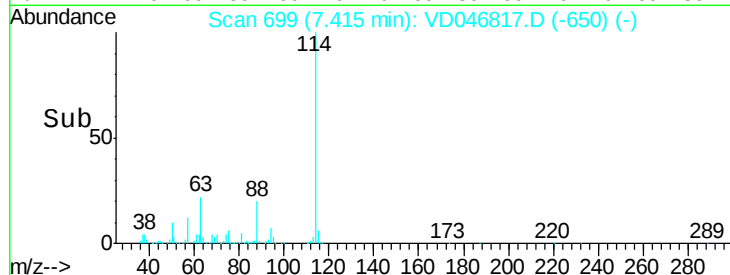
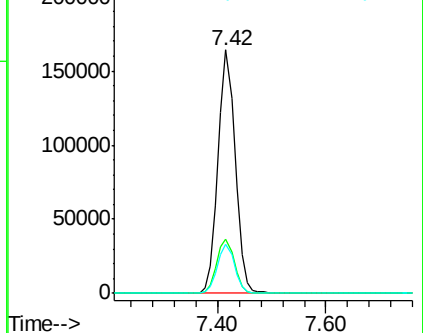
88 20.3 0.0 43.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.19 min Scan# 575

Delta R.T. -0.03 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

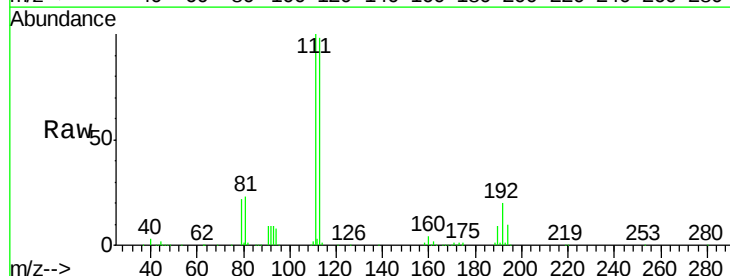
Tgt Ion:113 Resp: 135048

Ion Ratio Lower Upper

113 100

111 102.2 79.4 119.0

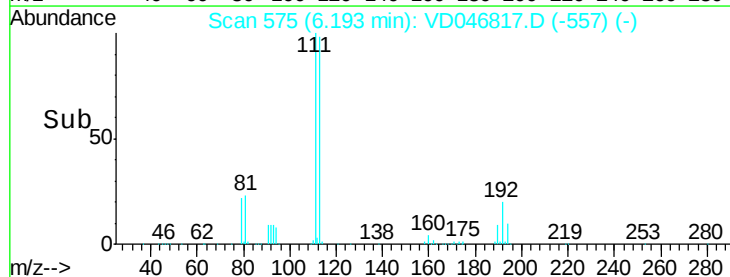
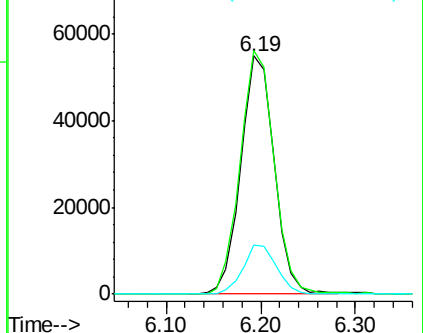
192 20.4 14.6 22.0

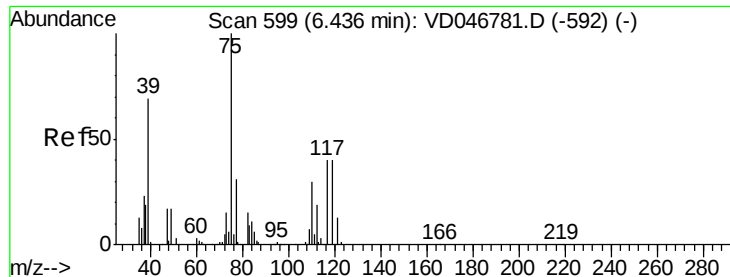


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.17 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.15 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

MMB6A

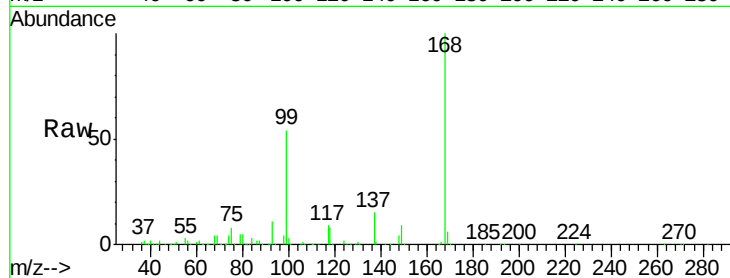
Tot Ion: 75 Resp: 21934

Ion Ratio Lower Upper

75 100

110 5.8 13.7 41.0#

77 0.0 24.7 37.1#

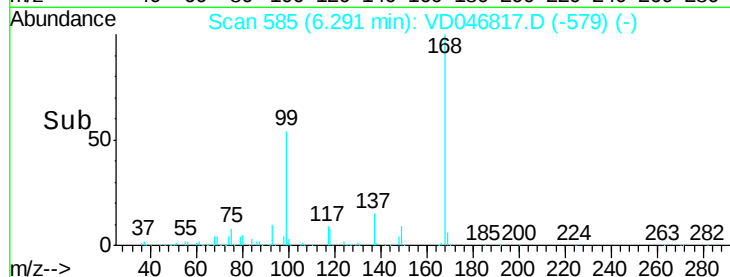


Abundance Ion 75.00 (74.70 to 75.70): VD046817.D (-579) (-)

Ion 109.90 (109.60 to 110.60): VD046817.D (-579) (-)

Ion 76.95 (76.65 to 77.65): VD046817.D (-579) (-)

Time-->

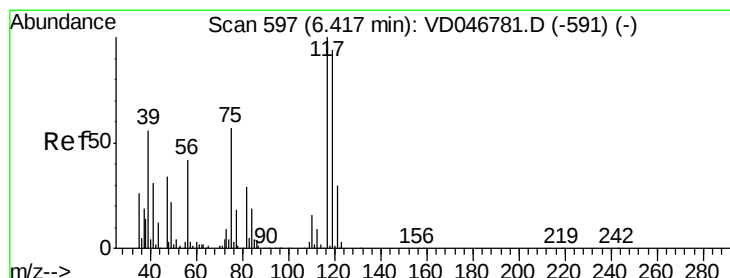


Abundance Ion 75.00 (74.70 to 75.70): VD046817.D (-579) (-)

Ion 109.90 (109.60 to 110.60): VD046817.D (-579) (-)

Ion 76.95 (76.65 to 77.65): VD046817.D (-579) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.05 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.13 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

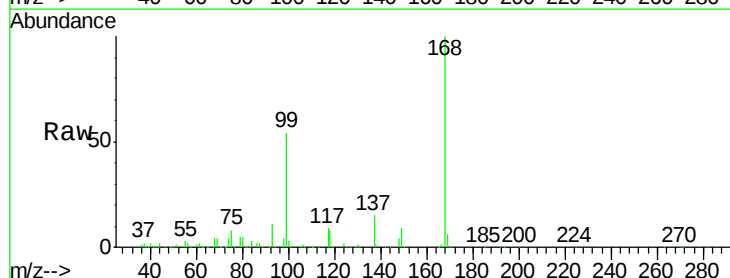
Tgt Ion: 117 Resp: 22261

Ion Ratio Lower Upper

117 100

119 4.3 76.2 114.4#

121 0.0 24.5 36.7#

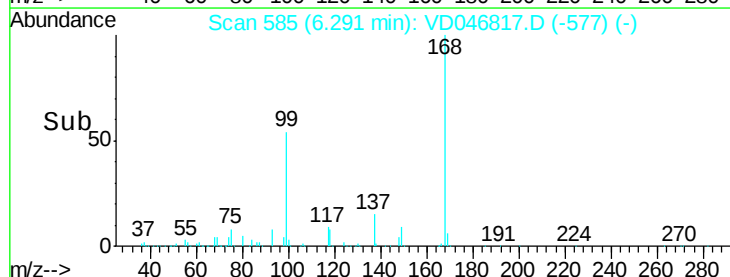


Abundance Ion 116.85 (116.55 to 117.55): VD046817.D (-577) (-)

Ion 118.85 (118.55 to 119.55): VD046817.D (-577) (-)

Ion 120.85 (120.55 to 121.55): VD046817.D (-577) (-)

Time-->

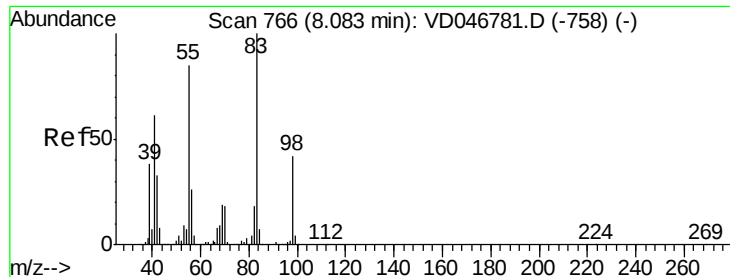


Abundance Ion 116.85 (116.55 to 117.55): VD046817.D (-577) (-)

Ion 118.85 (118.55 to 119.55): VD046817.D (-577) (-)

Ion 120.85 (120.55 to 121.55): VD046817.D (-577) (-)

Time-->



#48

Methyl methacrylate

Concen: 1.09 ug/l

RT: 8.07 min Scan# 765

Delta R.T. -0.02 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampled :

MMB6A

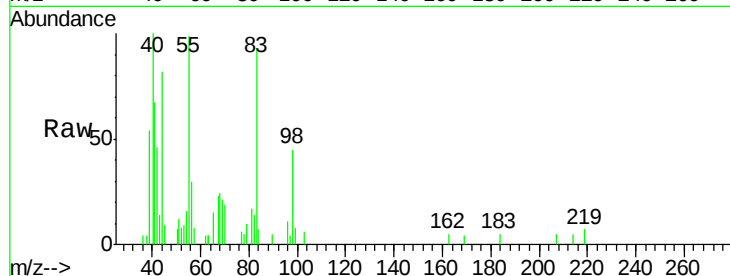
Tot Ion: 41 Resp: 2986

Ion Ratio Lower Upper

41 100

69 31.9 25.3 37.9

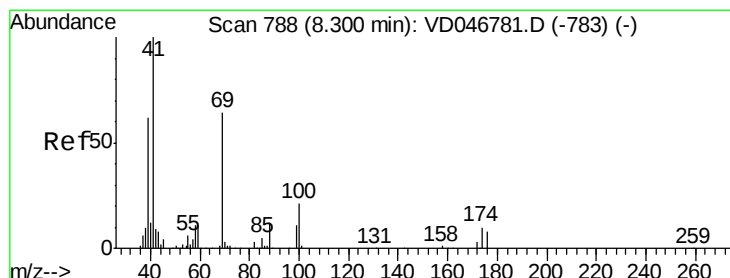
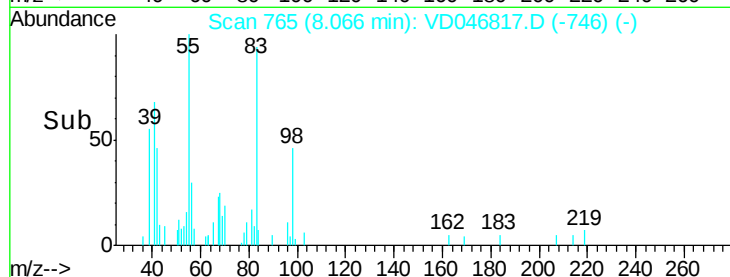
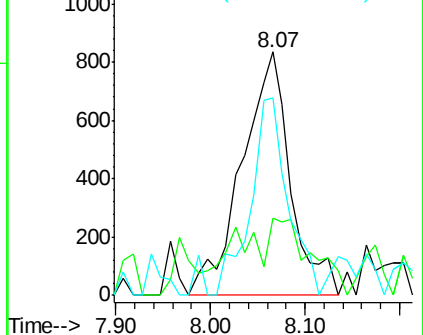
39 81.1 47.4 71.0#



Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC



#49

1,4-Dioxane

Concen: 8.47 ug/l

RT: 8.22 min Scan# 781

Delta R.T. -0.08 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

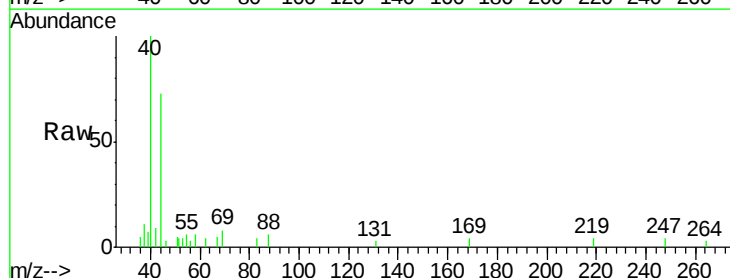
Tgt Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

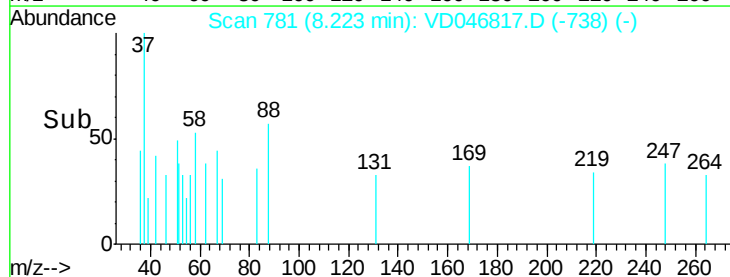
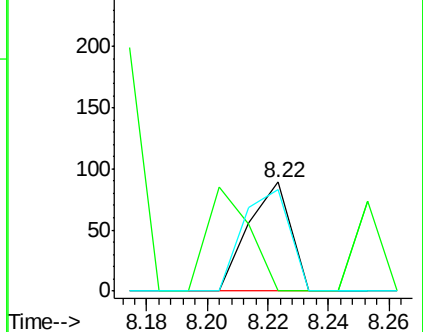
58 93.3 48.3 72.5#

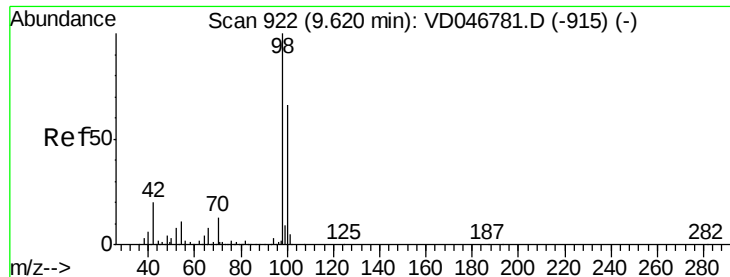


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

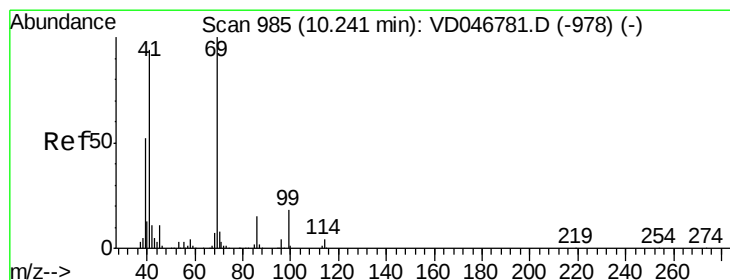
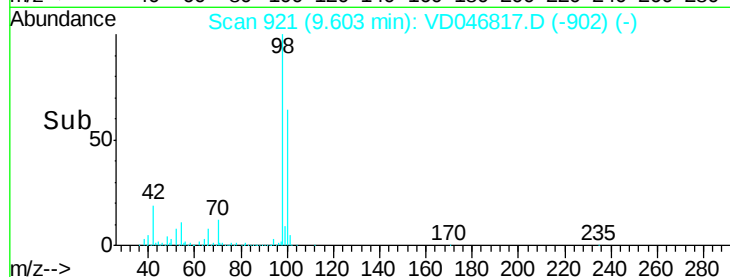
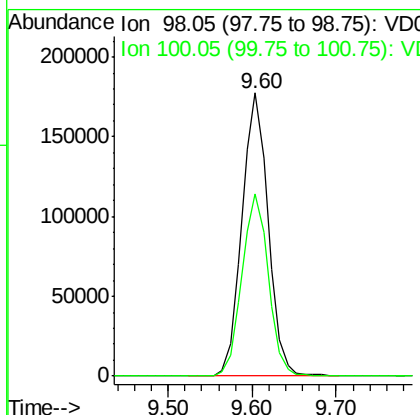
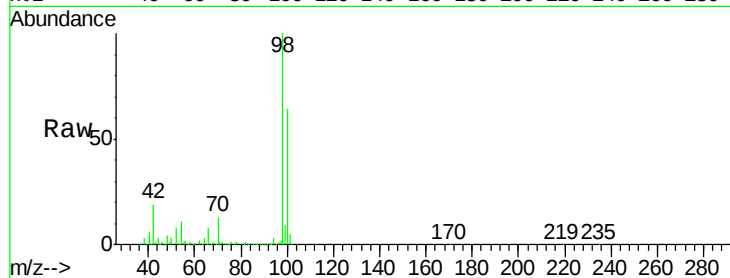




#50
Toluene-d8
Concen: 8.47 ug/l
RT: 9.60 min Scan# 921
Delta R.T. -0.02 min
Lab File: VD046817.D
Acq: 21 Sep 2015 19:46

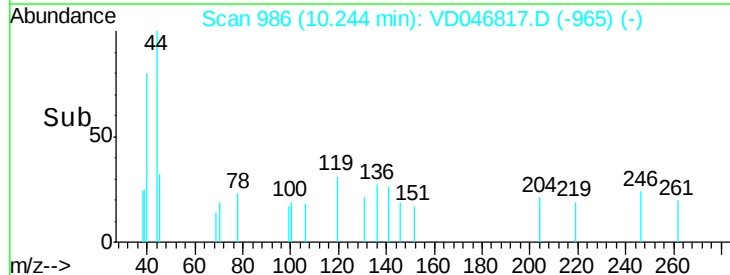
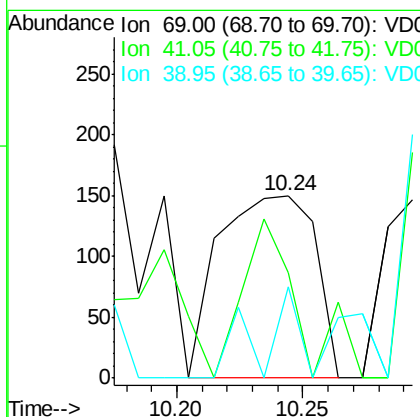
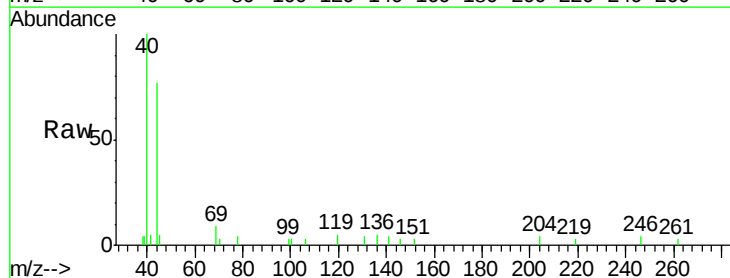
Instrument :
MSVOA_D
ClientSampleId :
MMB6A

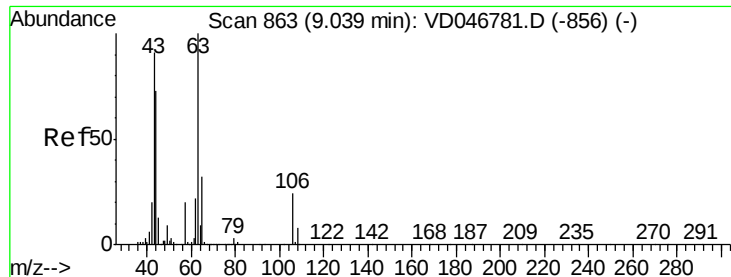
Tot Ion: 98 Resp: 386241
Ion Ratio Lower Upper
98 100
100 64.5 49.9 74.9



#56
Ethyl methacrylate
Concen: 4.08 ug/l
RT: 10.24 min Scan# 986
Delta R.T. 0.00 min
Lab File: VD046817.D
Acq: 21 Sep 2015 19:46

Tgt Ion: 69 Resp: 399
Ion Ratio Lower Upper
69 100
41 58.0 75.4 113.0#
39 50.0 41.0 61.4

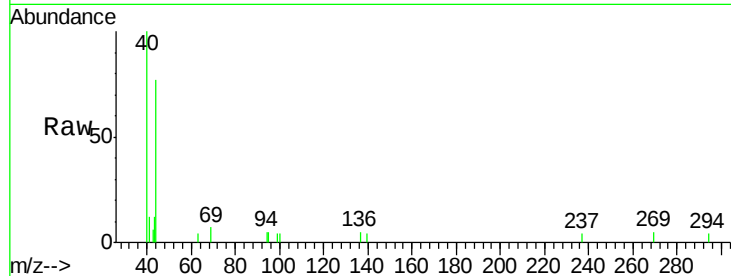




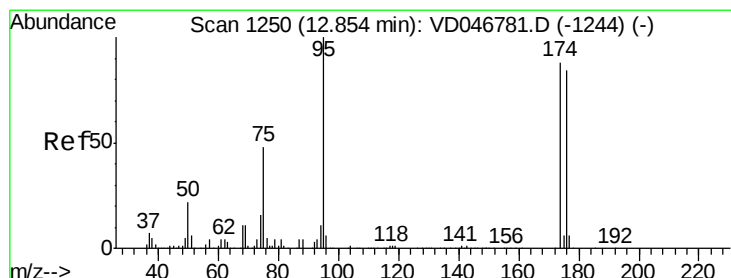
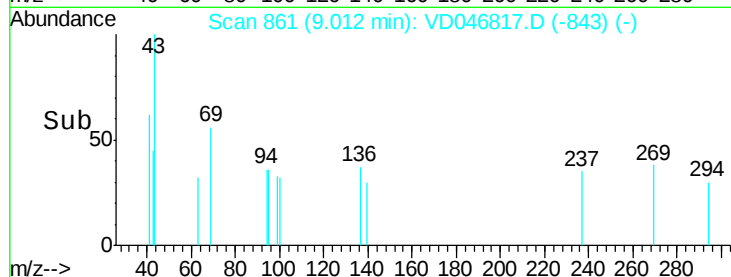
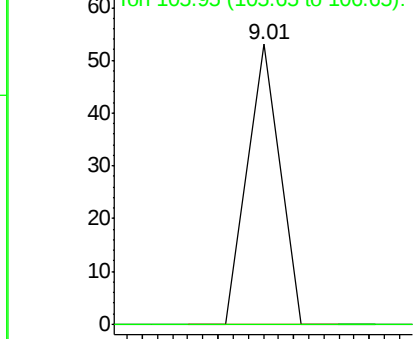
#58
2-Chloroethyl Vinyl ether
Concen: 6.36 ug/l
RT: 9.01 min Scan# 861
Delta R.T. -0.03 min
Lab File: VD046817.D
Acq: 21 Sep 2015 19:46

Instrument :
MSVOA_D
ClientSampleId :
MMB6A

Tot Ion: 63 Resp: 31
Ion Ratio Lower Upper
63 100
106 0.0 17.8 26.8#

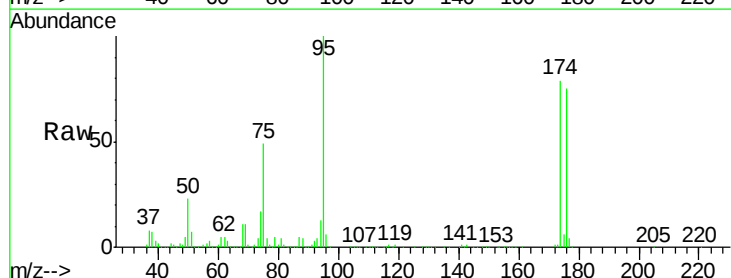


Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 105.95 (105.65 to 106.65): V

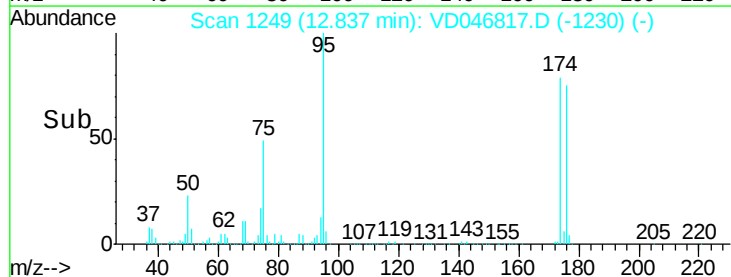
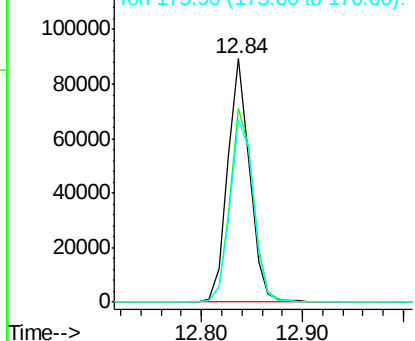


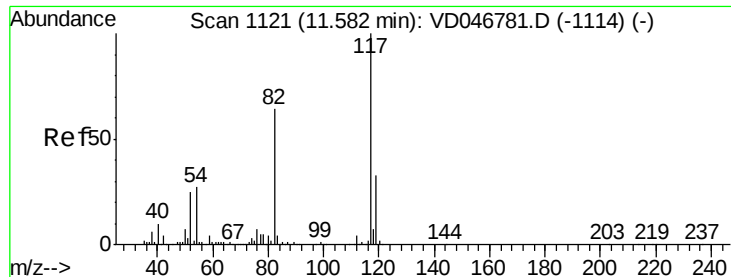
#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.84 min Scan# 1249
Delta R.T. -0.02 min
Lab File: VD046817.D
Acq: 21 Sep 2015 19:46

Tgt Ion: 95 Resp: 135102
Ion Ratio Lower Upper
95 100
174 79.3 0.0 149.8
176 75.1 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

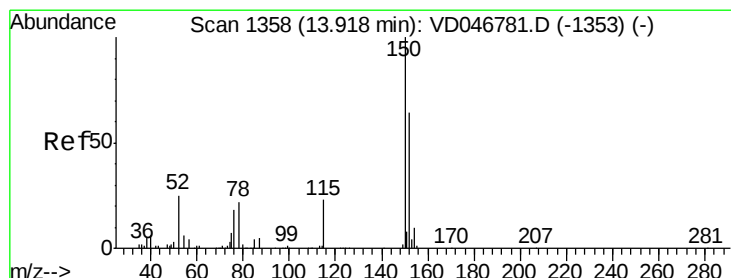
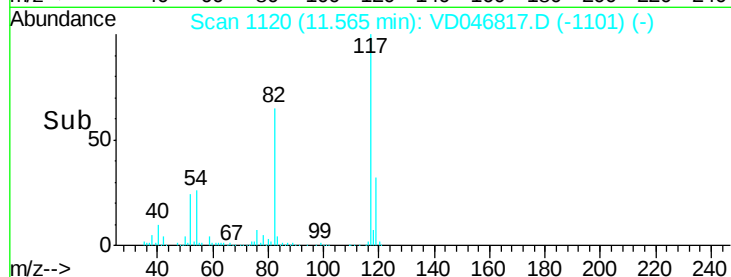
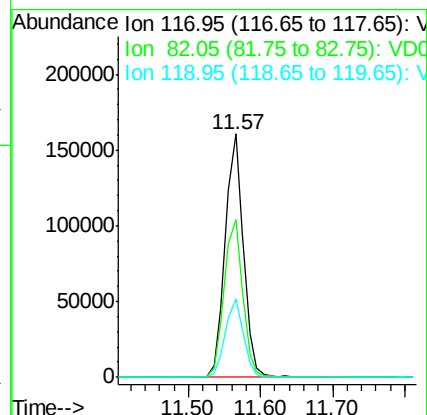
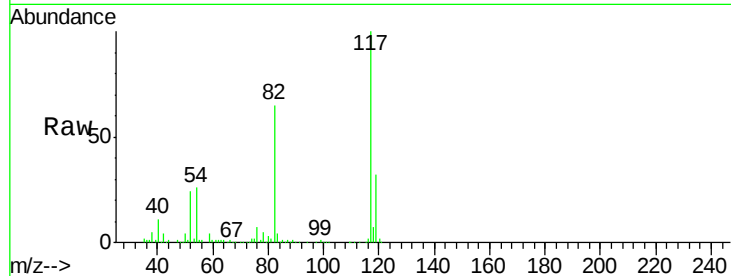




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. -0.02 min
Lab File: VD046817.D
Acq: 21 Sep 2015 19:46

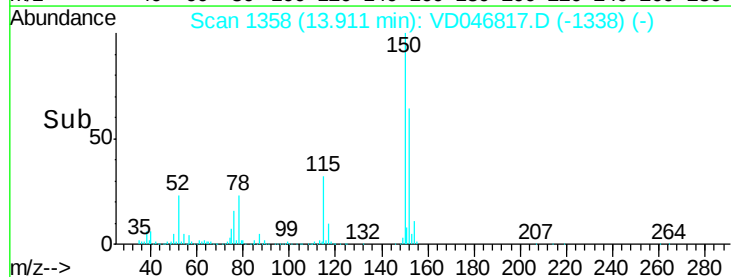
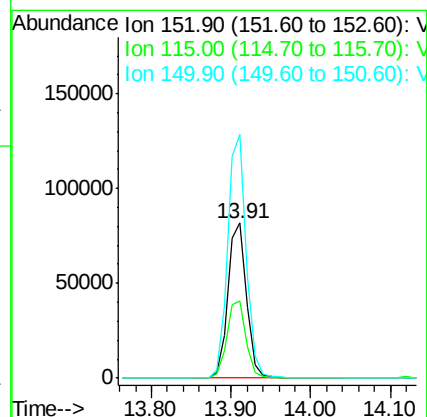
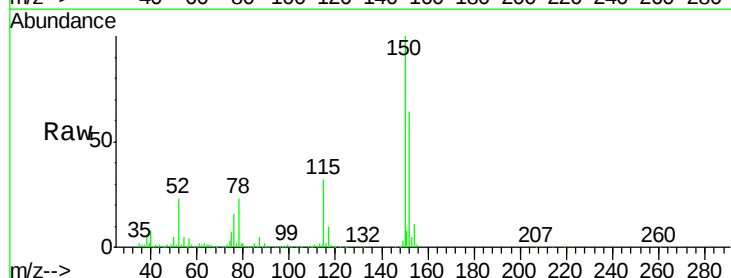
Instrument :
MSVOA_D
ClientSampleId :
MMB6A

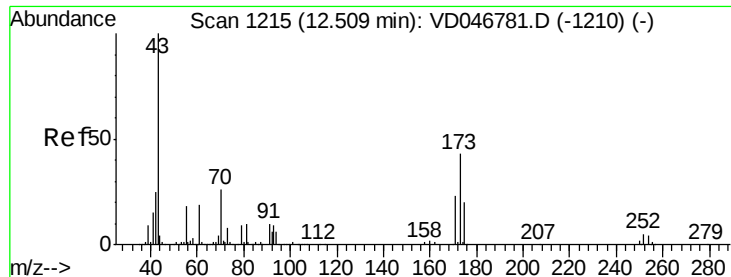
Tot Ion:117 Resp: 279619
Ion Ratio Lower Upper
117 100
82 64.7 50.6 75.8
119 32.1 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.91 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VD046817.D
Acq: 21 Sep 2015 19:46

Tgt Ion:152 Resp: 135859
Ion Ratio Lower Upper
152 100
115 50.0 26.2 78.6
150 157.2 0.0 311.8





#74

N-amvl acetate

Concen: 4.76 ug/l

RT: 12.53 min Scan# 1218

Delta R.T. 0.02 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

MMB6A

Tot Ion: 43 Resp: 118

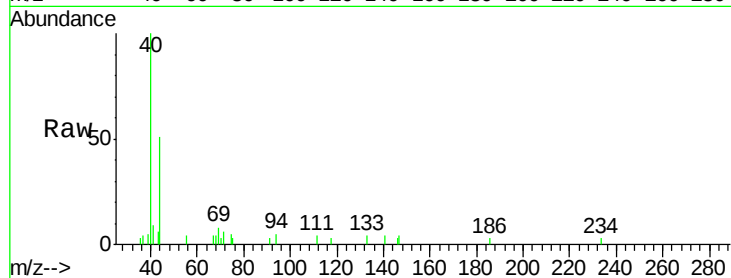
Ion Ratio Lower Upper

43 100

70 54.7 22.1 33.1#

55 64.2 14.5 21.7#

61 0.0 14.6 21.8#

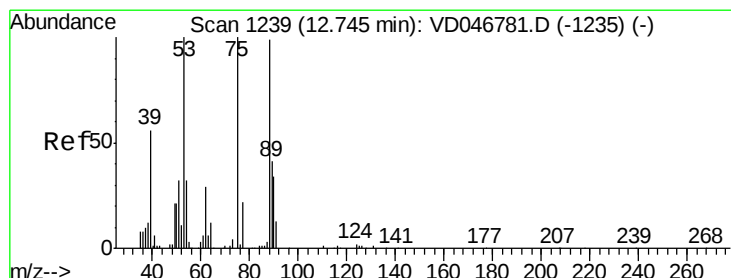
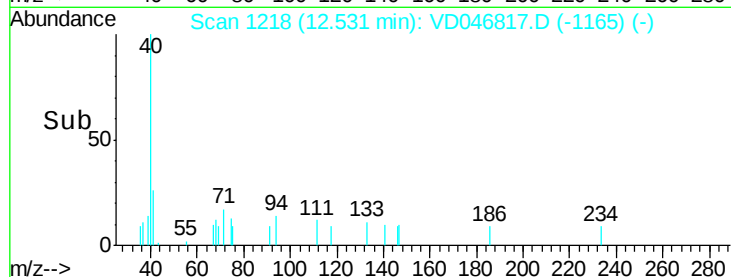
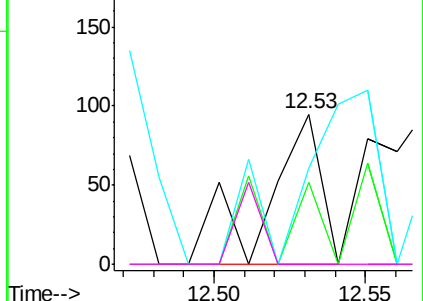


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 140.58 ug/l

RT: 12.84 min Scan# 1249

Delta R.T. 0.09 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

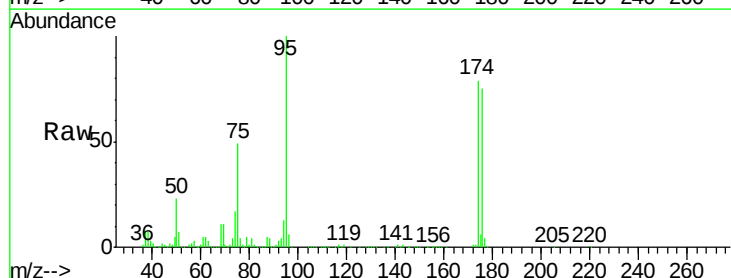
Tgt Ion: 75 Resp: 67324

Ion Ratio Lower Upper

75 100

53 0.2 82.3 123.5#

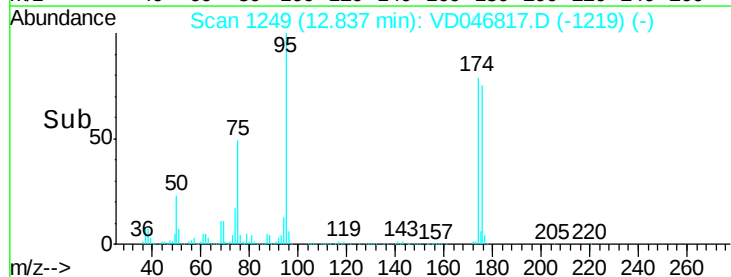
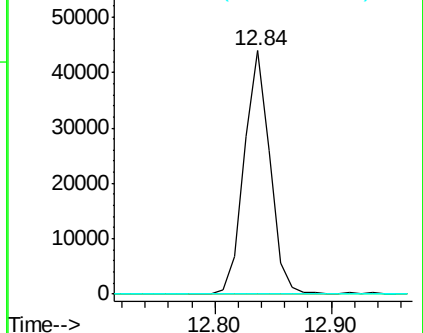
89 0.2 36.6 54.8#

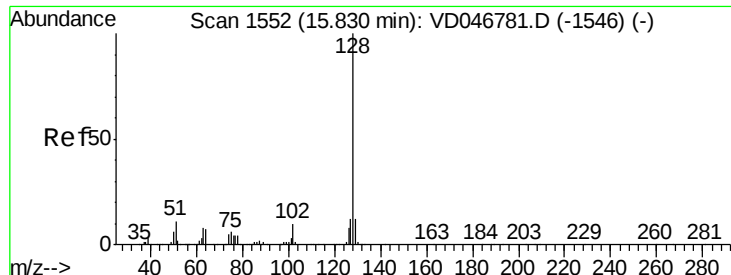


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 8.22 ug/l

RT: 15.81 min Scan# 1551

Delta R.T. -0.02 min

Lab File: VD046817.D

Acq: 21 Sep 2015 19:46

Instrument :

MSVOA_D

ClientSampleId :

MMB6A

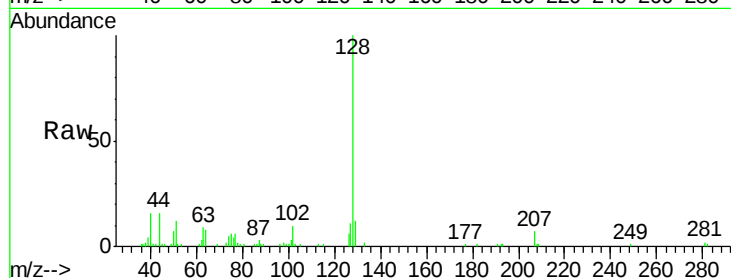
Tot Ion:128 Resp: 17647

Ion Ratio Lower Upper

128 100

127 10.8 9.8 14.6

129 12.2 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

