

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD091815\
 Data File : VD046788.D
 Acq On : 18 Sep 2015 17:54
 Operator : FY/SY
 Sample : G3652-03
 Misc : 5.74qm/5mL/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 18 19:32:41 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	6.32	168	195126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	257757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	215573	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.92	152	78137	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.72	65	94601	46.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.26%	
35) Dibromofluoromethane	6.22	113	101048	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
50) Toluene-d8	9.62	98	285951	44.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.90%	
62) 4-Bromofluorobenzene	12.85	95	92785	36.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.44%	

Target Compounds

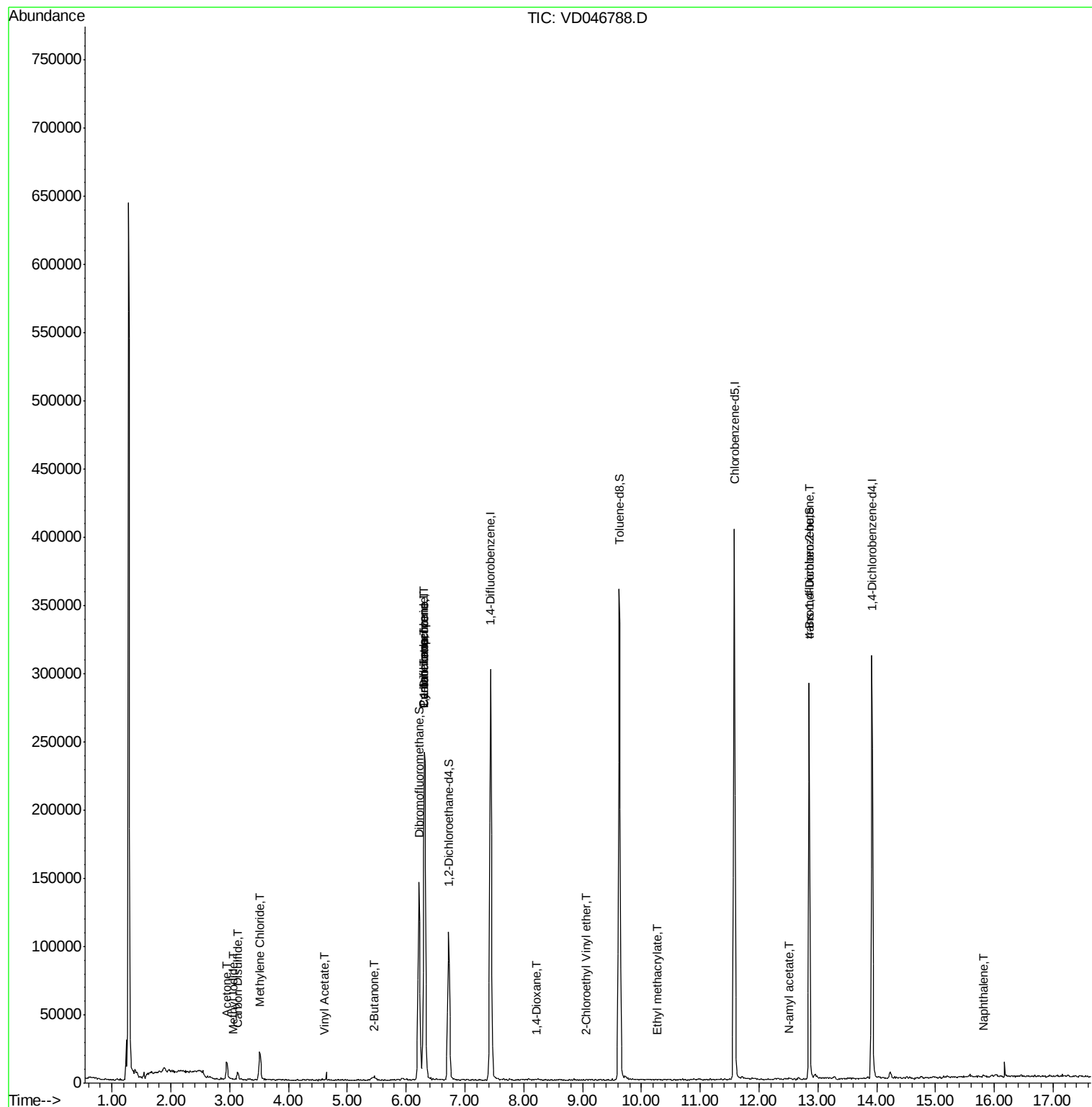
						Qvalue
2) Dichlorodifluoromethane	1.43	85	551	Below Cal		87
3) Chlorodifluoromethane	1.44	51	607	Below Cal	#	38
6) Bromomethane	1.99	94	360	Below Cal	#	35
11) Methyl Iodide	3.06	142	176	1.81	ug/l #	57
12) Tert butyl alcohol	3.71	59	101	Below Cal	#	74
17) Acetone	2.95	43	18853	55.00	ug/l	99
18) Carbon Disulfide	3.13	76	6798	1.16	ug/l	96
21) Methylene Chloride	3.51	84	10174	5.47	ug/l	91
24) Vinyl Acetate	4.60	43	144	15.10	ug/l #	82
26) 2-Butanone	5.46	43	4464	11.59	ug/l	97
31) Cyclohexane	6.32	56	5158	1.69	ug/l #	3
36) 1,1-Dichloropropene	6.31	75	16597	5.51	ug/l #	52
38) Carbon Tetrachloride	6.31	117	17971	5.74	ug/l #	15
49) 1,4-Dioxane	8.21	88	64	8.87	ug/l #	20
56) Ethyl methacrylate	10.25	69	106	3.95	ug/l #	32
58) 2-Chloroethyl Vinyl ether	9.06	63	34	6.38	ug/l #	53
74) N-amyl acetate	12.51	43	117	4.79	ug/l #	43
81) trans-1,4-Dichloro-2-buten	12.85	75	46148	166.82	ug/l #	9
95) Naphthalene	15.83	128	694	2.78	ug/l #	93

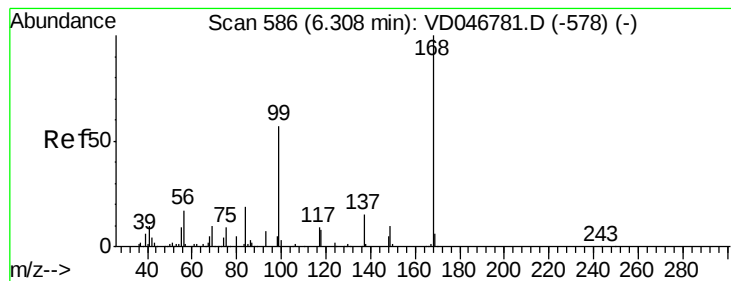
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.32 min Scan# 587

Delta R.T. 0.01 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

Instrument :

MSVOA_D

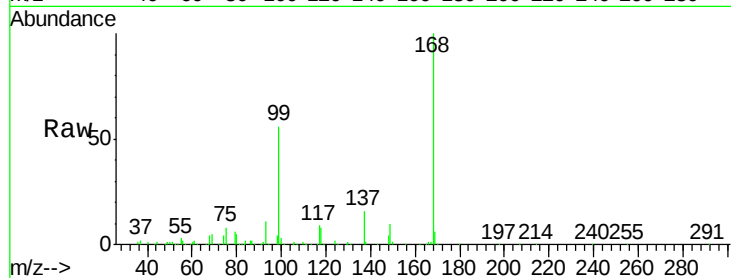
ClientSampleId :

Tot Ion:168 Resp: 195126

Ion Ratio Lower Upper

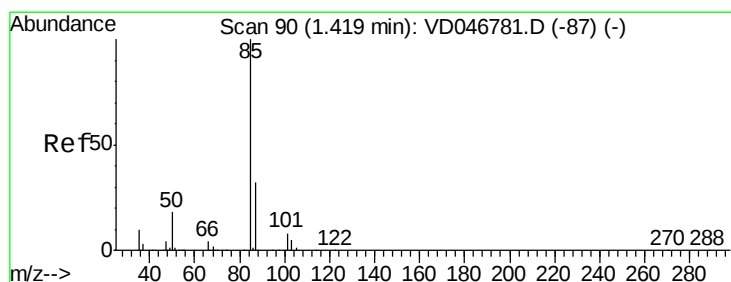
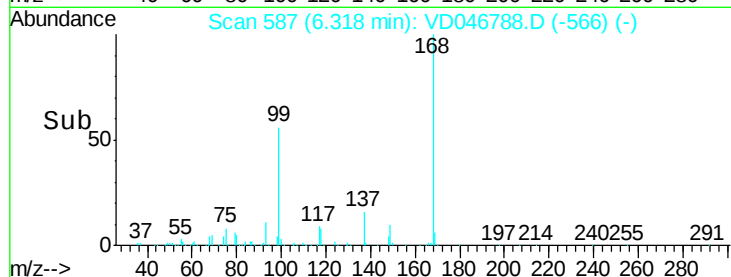
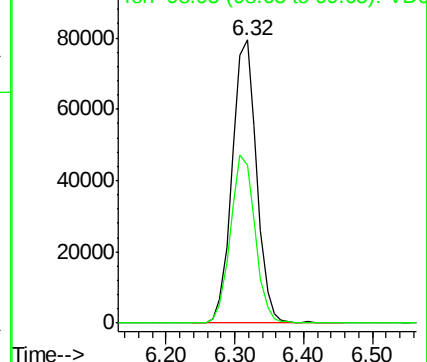
168 100

99 55.6 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: 1.43 min Scan# 91

Delta R.T. 0.01 min

Lab File: VD046788.D

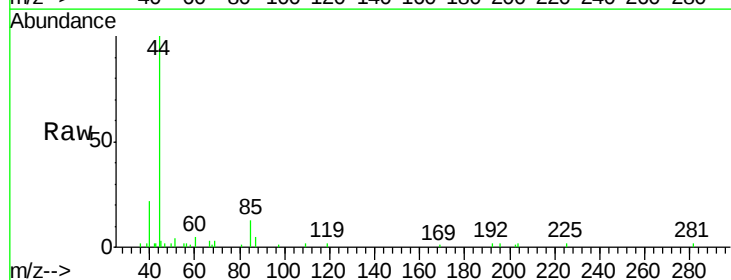
Acq: 18 Sep 2015 17:54

Tgt Ion: 85 Resp: 551

Ion Ratio Lower Upper

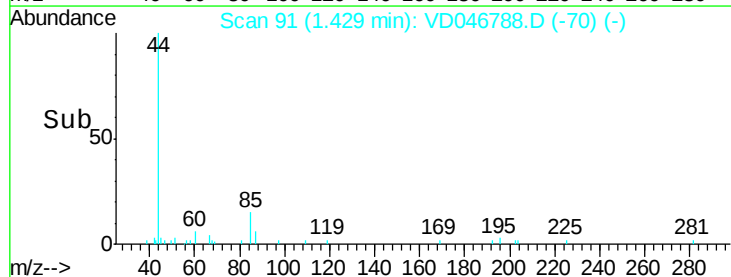
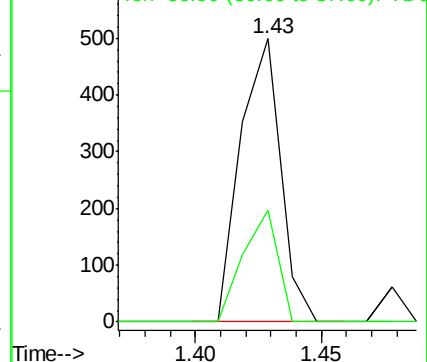
85 100

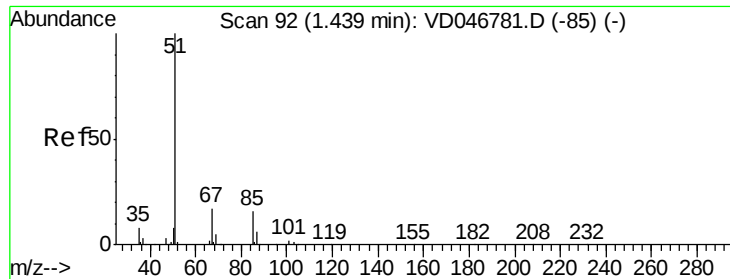
87 39.5 16.2 48.5



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: 1.44 min Scan# 92

Delta R.T. 0.00 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

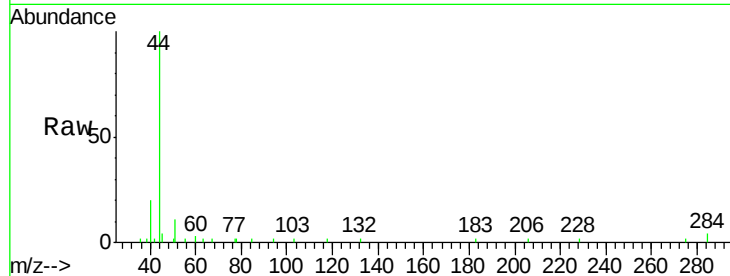
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 51 Resp: 607

Ion Ratio Lower Upper

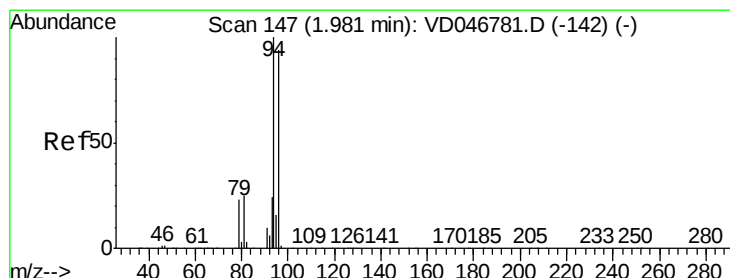
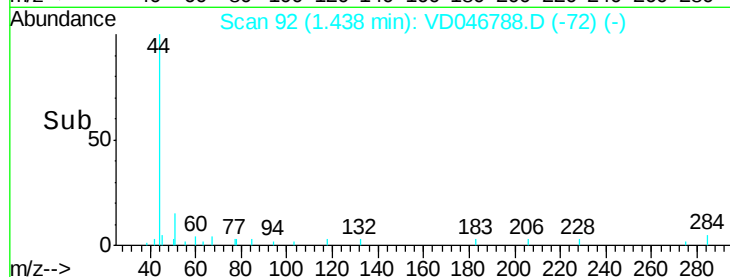
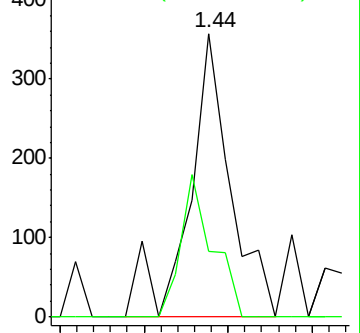
51 100

67 38.7 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: 1.99 min Scan# 148

Delta R.T. 0.01 min

Lab File: VD046788.D

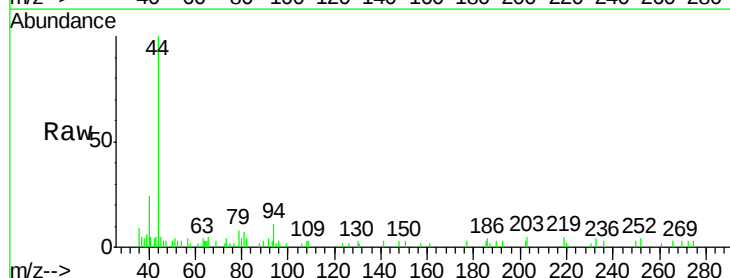
Acq: 18 Sep 2015 17:54

Tgt Ion: 94 Resp: 360

Ion Ratio Lower Upper

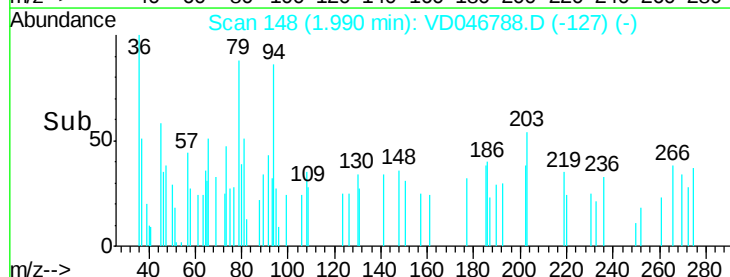
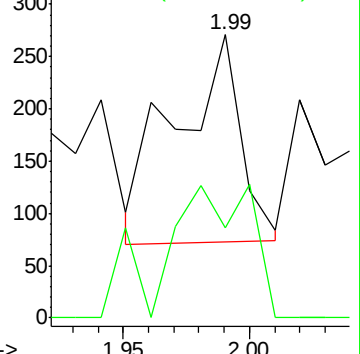
94 100

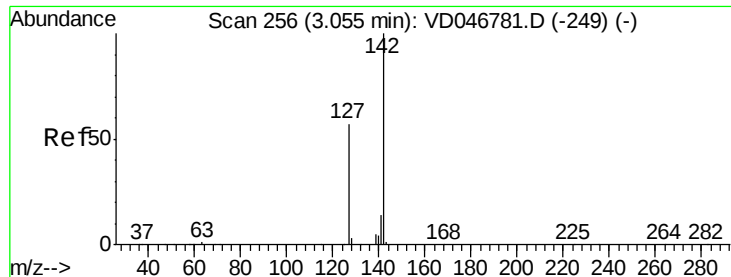
96 31.7 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

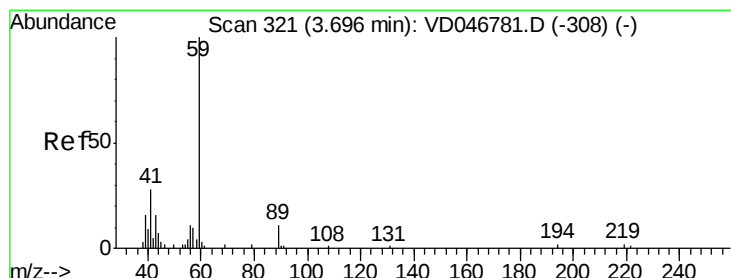
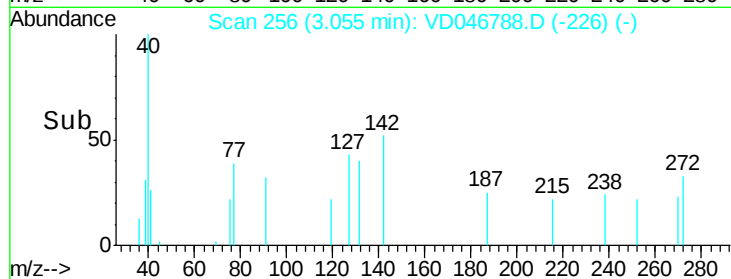
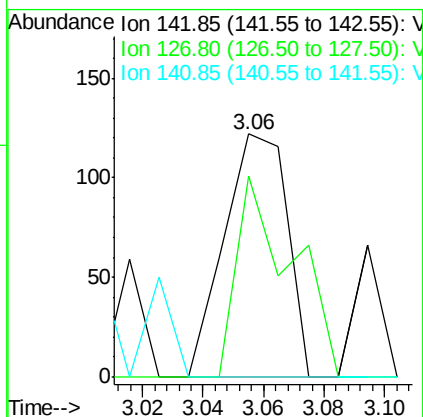
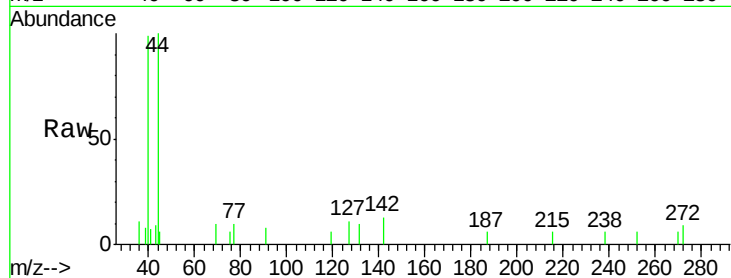




#11
Methyl Iodide
Concen: 1.81 ug/l
RT: 3.06 min Scan# 256
Delta R.T. 0.00 min
Lab File: VD046788.D
Acq: 18 Sep 2015 17:54

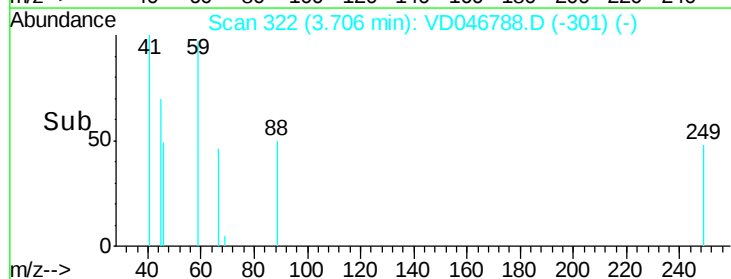
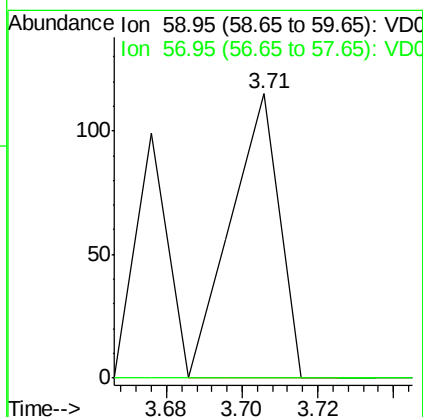
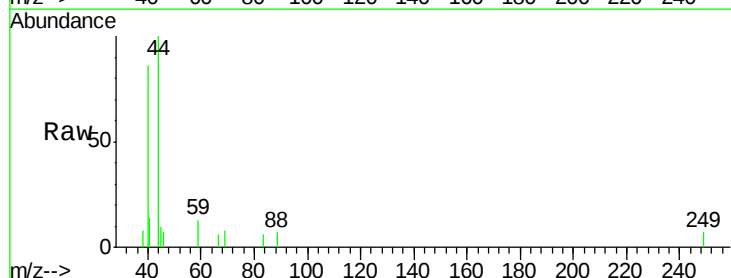
Instrument :
MSVOA_D
ClientSampled :

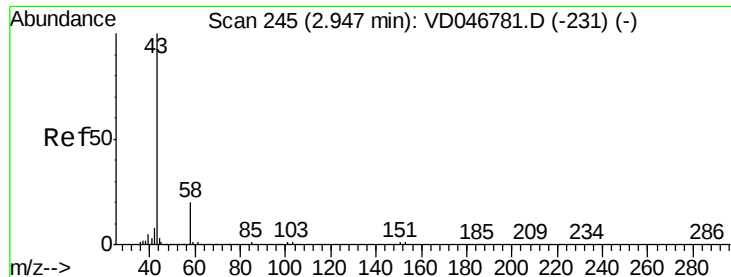
Tot Ion:142 Resp: 176
Ion Ratio Lower Upper
142 100
127 82.8 41.2 61.8#
141 0.0 11.6 17.4#



#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.71 min Scan# 322
Delta R.T. 0.01 min
Lab File: VD046788.D
Acq: 18 Sep 2015 17:54

Tgt Ion: 59 Resp: 101
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#





#17

Acetone

Concen: 55.00 ug/l

RT: 2.95 min Scan# 245

Delta R.T. -0.00 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

Instrument :

MSVOA_D

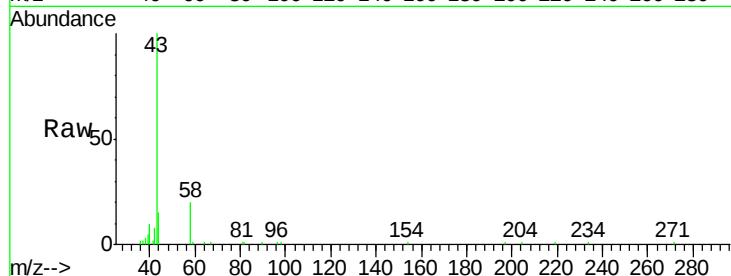
ClientSampleId :

Tot Ion: 43 Resp: 18853

Ion Ratio Lower Upper

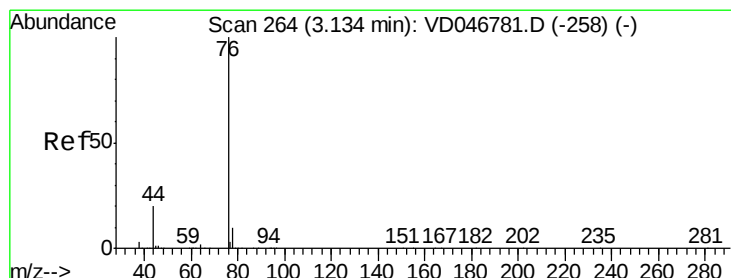
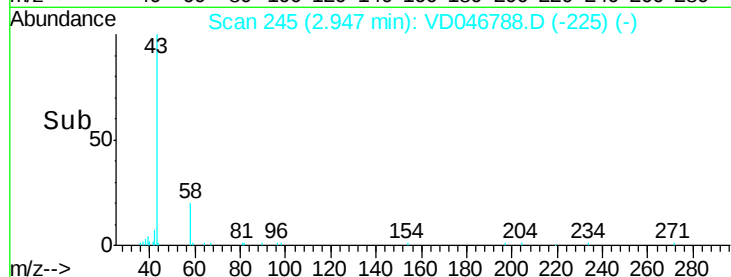
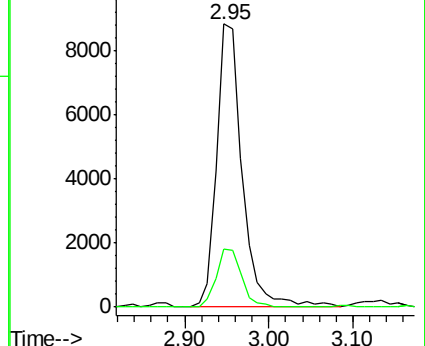
43 100

58 20.4 16.6 24.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Carbon Disulfide

Concen: 1.16 ug/l

RT: 3.13 min Scan# 264

Delta R.T. -0.00 min

Lab File: VD046788.D

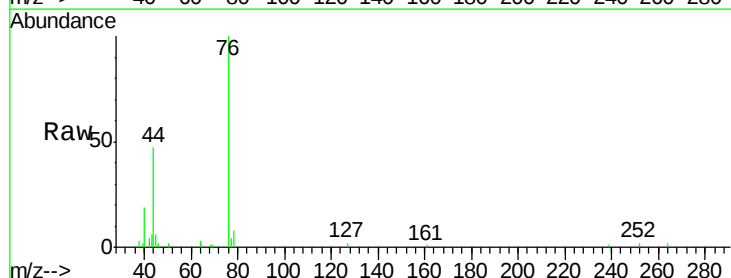
Acq: 18 Sep 2015 17:54

Tgt Ion: 76 Resp: 6798

Ion Ratio Lower Upper

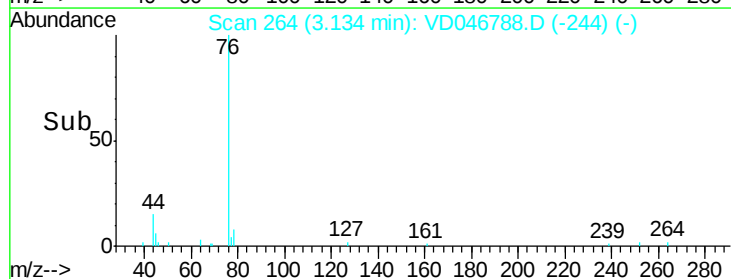
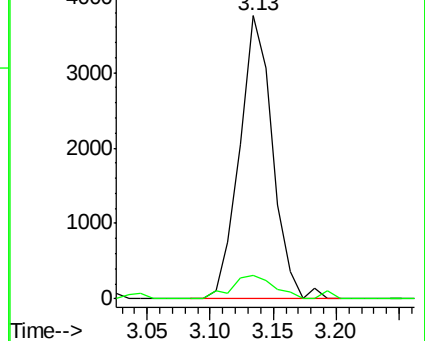
76 100

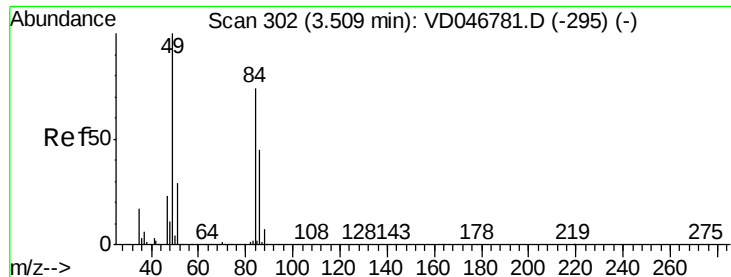
78 8.5 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

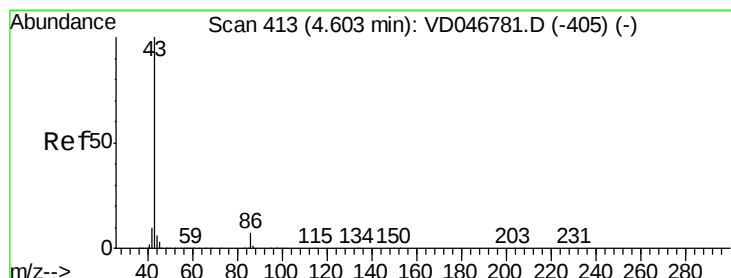
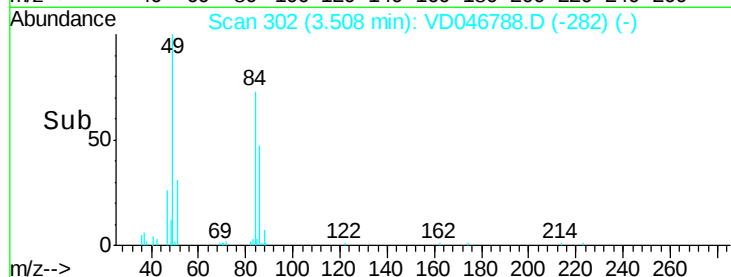
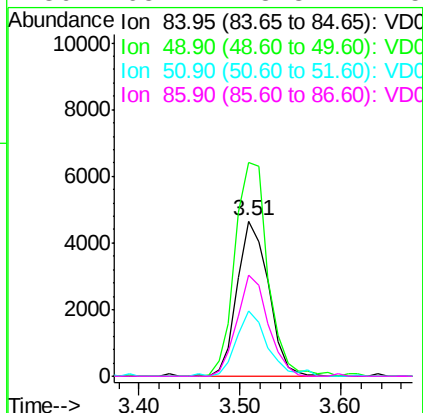
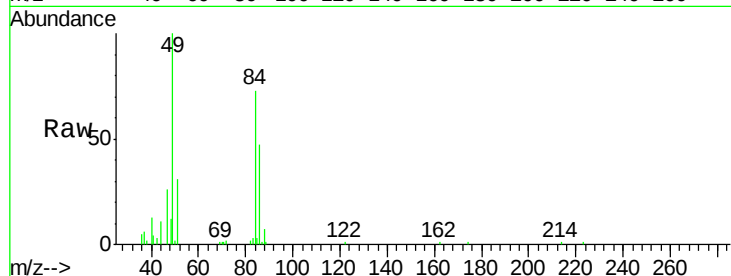




#21
Methvlene Chloride
Concen: 5.47 ug/l
RT: 3.51 min Scan# 302
Delta R.T. -0.00 min
Lab File: VD046788.D
Acq: 18 Sep 2015 17:54

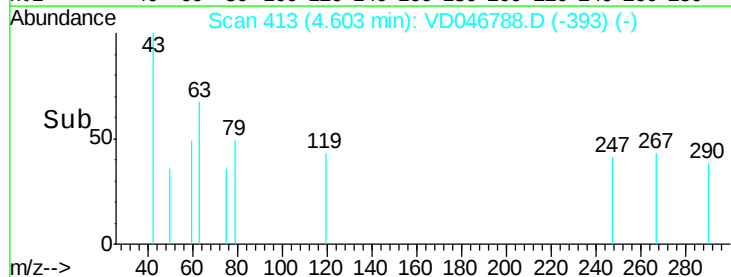
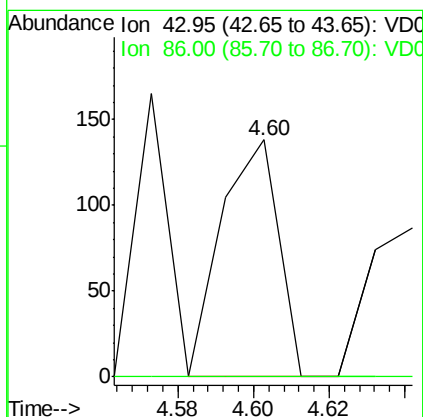
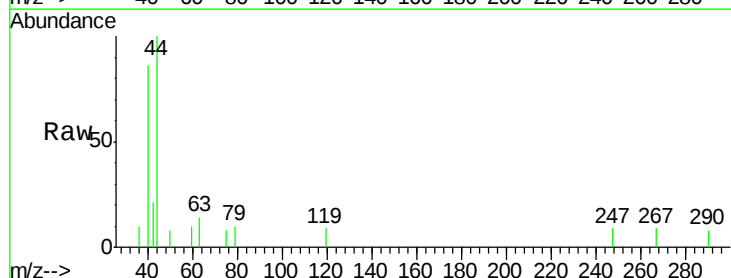
Instrument :
MSVOA_D
ClientSampleId :

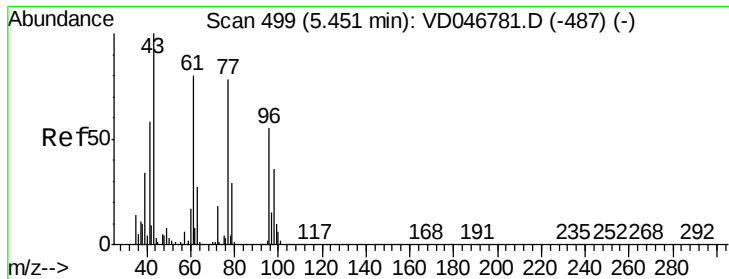
Tot Ion: 84 Resp: 10174
Ion Ratio Lower Upper
84 100
49 137.6 122.1 183.1
51 42.4 33.6 50.4
86 65.2 48.3 72.5



#24
Vinyl Acetate
Concen: 15.10 ug/l
RT: 4.60 min Scan# 413
Delta R.T. -0.00 min
Lab File: VD046788.D
Acq: 18 Sep 2015 17:54

Tgt Ion: 43 Resp: 144
Ion Ratio Lower Upper
43 100
86 0.0 4.9 7.3#

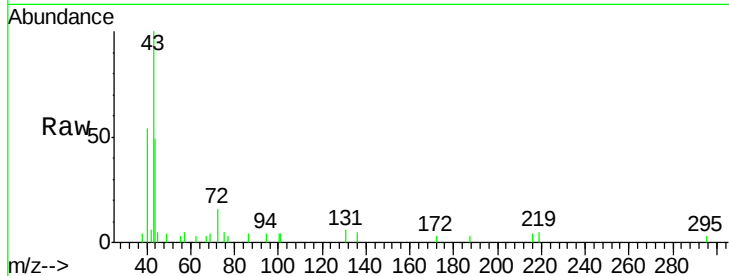




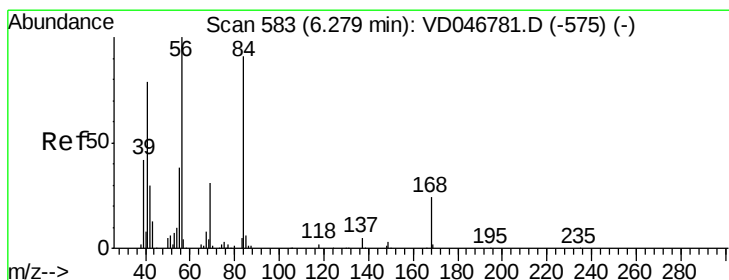
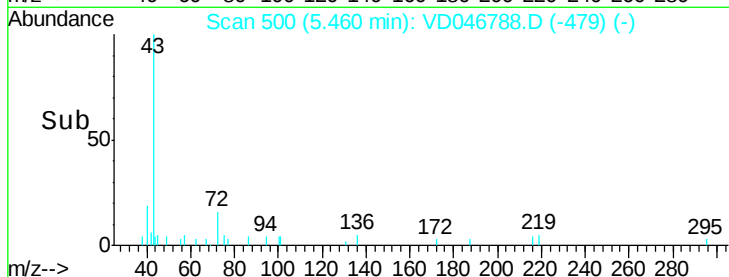
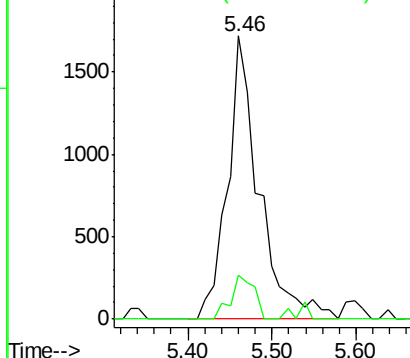
#26
2-Butanone
Concen: 11.59 ug/l
RT: 5.46 min Scan# 500
Delta R.T. 0.01 min
Lab File: VD046788.D
Acq: 18 Sep 2015 17:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 4464
Ion Ratio Lower Upper
43 100
72 15.5 13.4 20.0

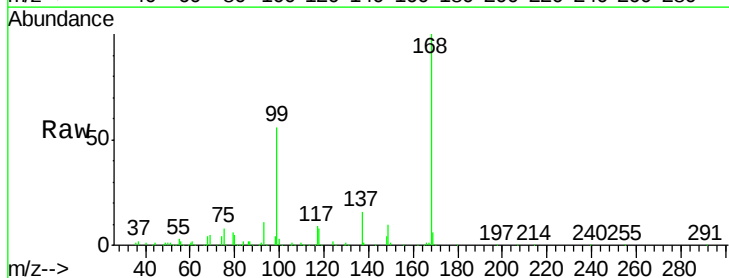


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

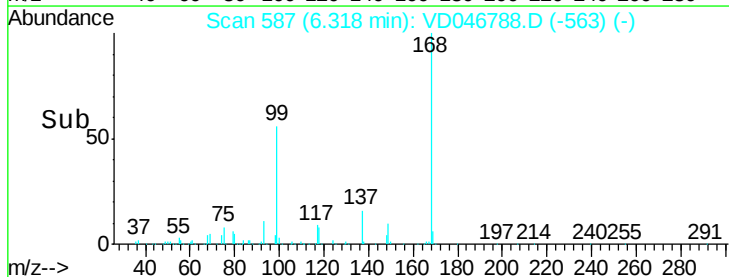
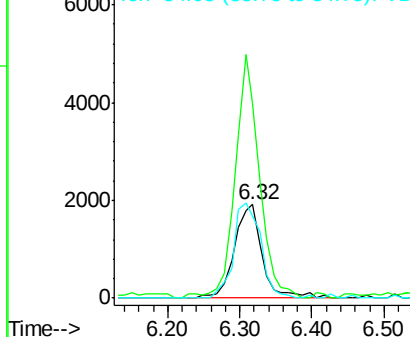


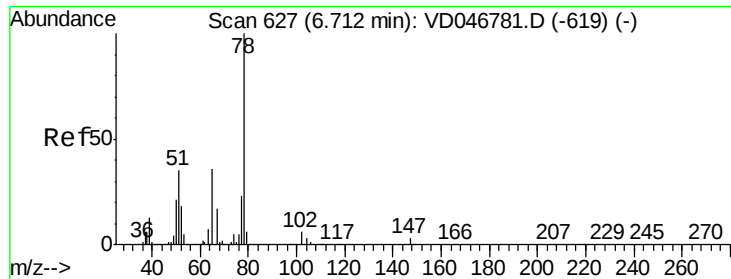
#31
Cyclohexane
Concen: 1.69 ug/l
RT: 6.32 min Scan# 587
Delta R.T. 0.04 min
Lab File: VD046788.D
Acq: 18 Sep 2015 17:54

Tgt Ion: 56 Resp: 5158
Ion Ratio Lower Upper
56 100
69 208.6 23.4 35.0#
84 88.3 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

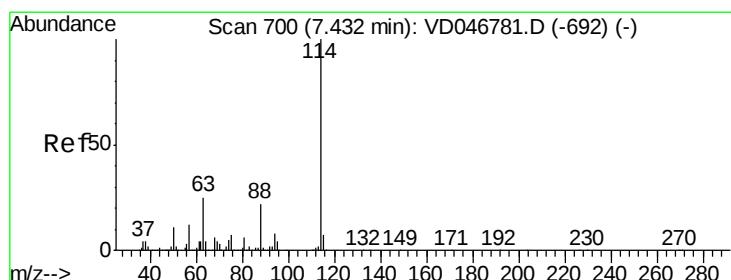
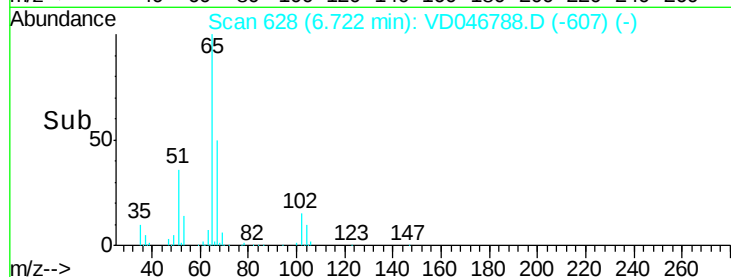
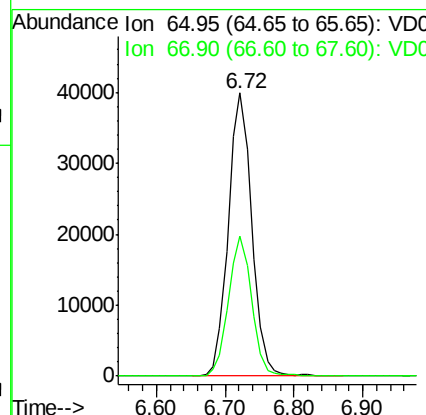
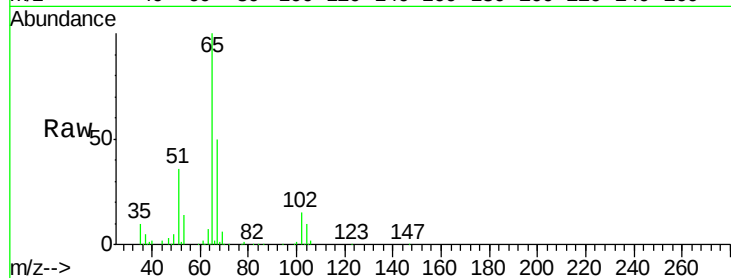




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.72 min Scan# 628
 Delta R.T. 0.01 min
 Lab File: VD046788.D
 Acq: 18 Sep 2015 17:54

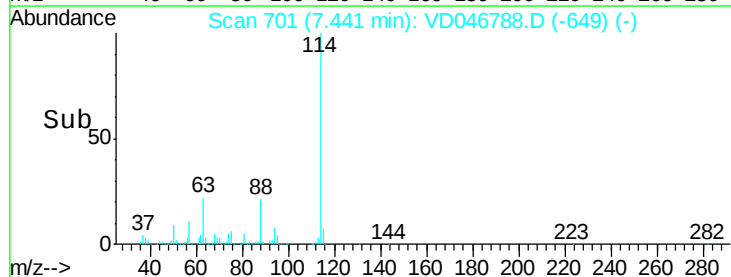
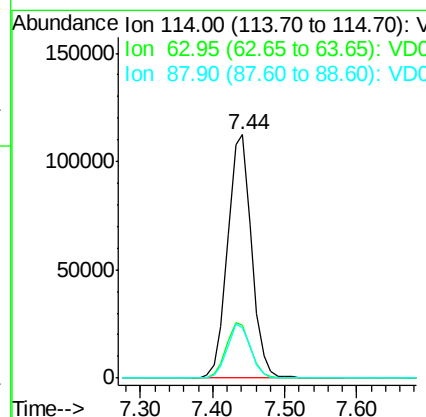
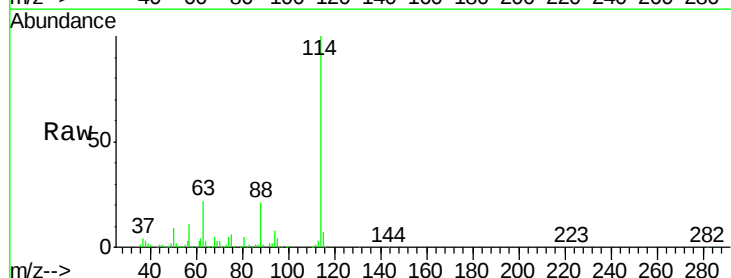
Instrument :
 MSVOA_D
 ClientSampled :

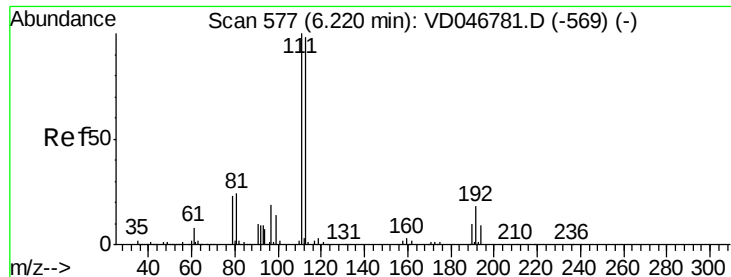
Tot Ion: 65 Resp: 94601
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.44 min Scan# 701
 Delta R.T. 0.01 min
 Lab File: VD046788.D
 Acq: 18 Sep 2015 17:54

Tgt Ion: 114 Resp: 257757
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 49.8
 88 20.6 0.0 43.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.22 min Scan# 577

Delta R.T. -0.00 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

Instrument :

MSVOA_D

ClientSampleId :

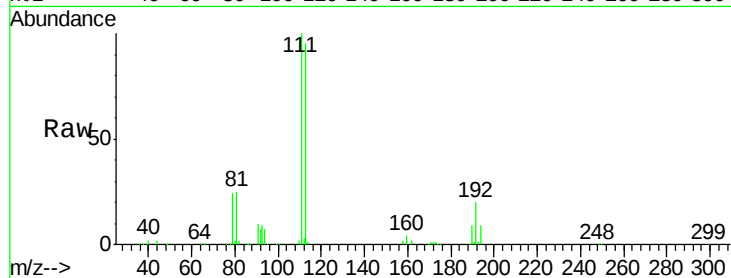
Tot Ion:113 Resp: 101048

Ion Ratio Lower Upper

113 100

111 105.0 79.4 119.0

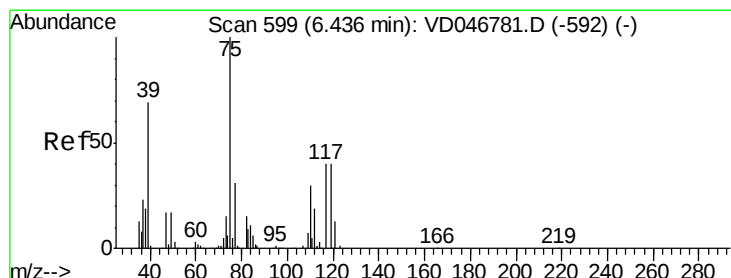
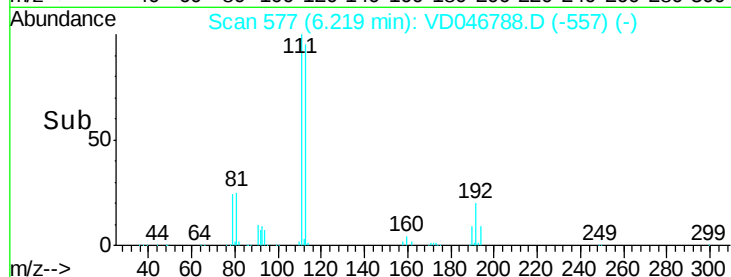
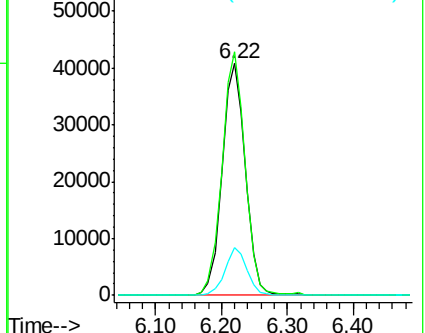
192 20.5 14.6 22.0



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: 5.51 ug/l

RT: 6.31 min Scan# 586

Delta R.T. -0.13 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

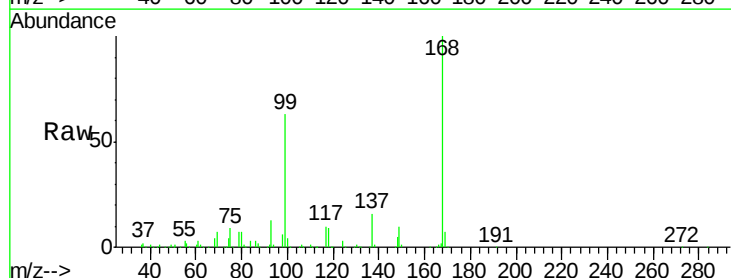
Tgt Ion: 75 Resp: 16597

Ion Ratio Lower Upper

75 100

110 6.8 13.7 41.0#

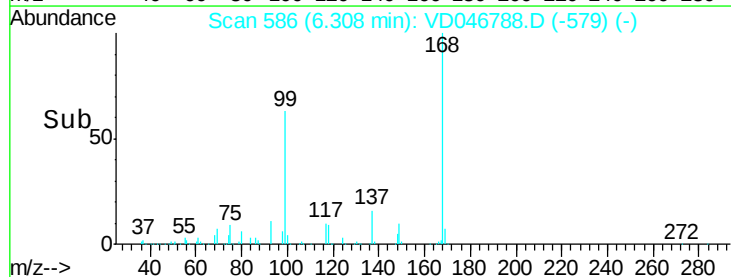
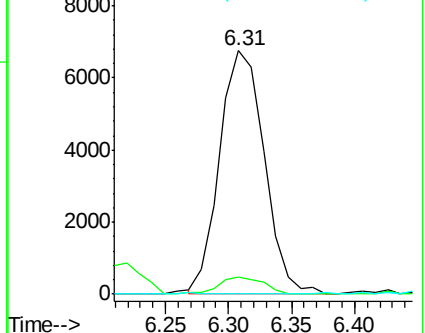
77 0.0 24.7 37.1#

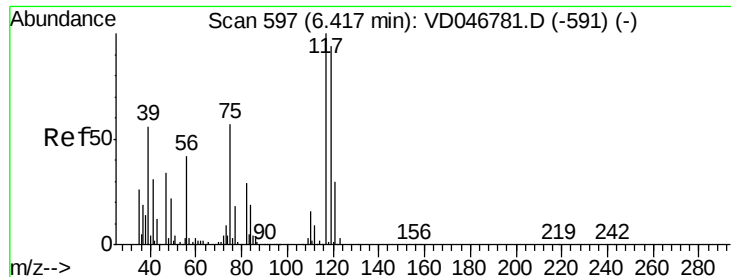


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.74 ug/l

RT: 6.31 min Scan# 586

Delta R.T. -0.11 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

Instrument :

MSVOA_D

ClientSampleId :

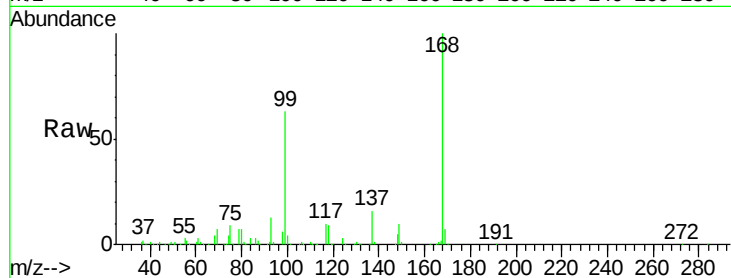
Tot Ion:117 Resp: 17971

Ion Ratio Lower Upper

117 100

119 4.0 76.2 114.4#

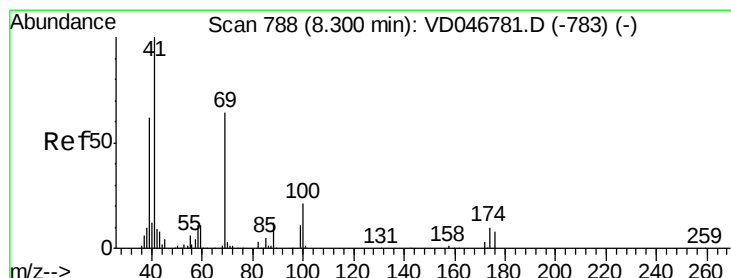
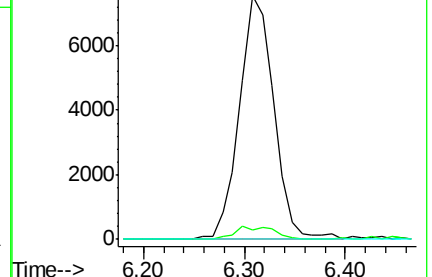
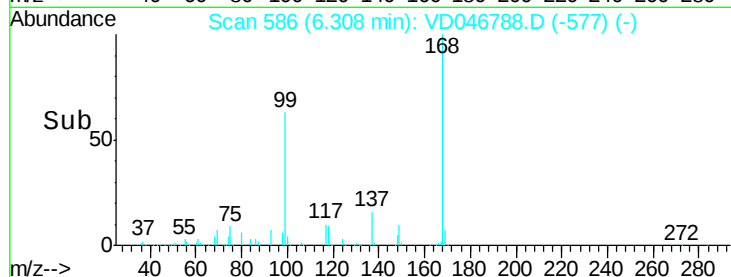
121 0.0 24.5 36.7#



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: 8.87 ug/l

RT: 8.21 min Scan# 779

Delta R.T. -0.09 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

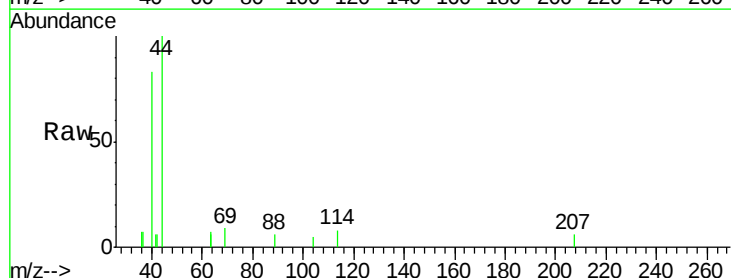
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

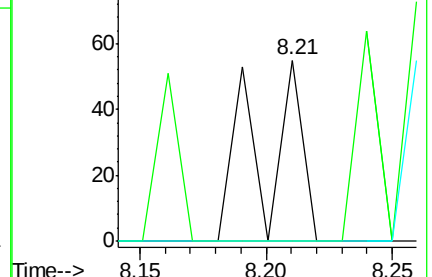
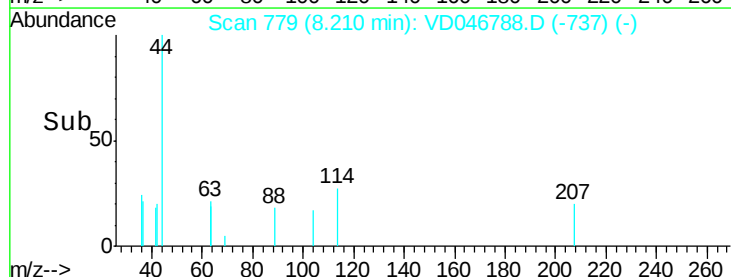
58 0.0 48.3 72.5#

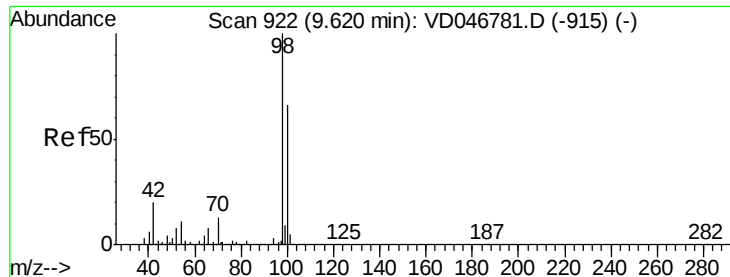


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 8.87 ug/l

RT: 9.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

Instrument :

MSVOA_D

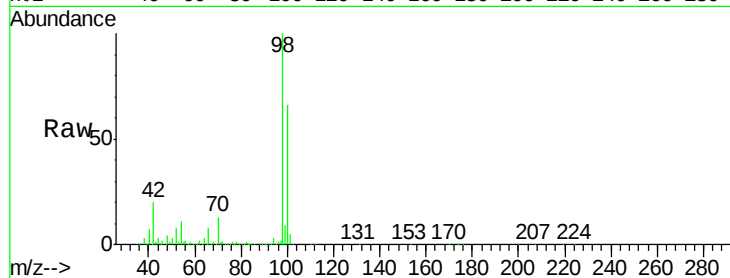
ClientSampleId :

Tot Ion: 98 Resp: 285951

Ion Ratio Lower Upper

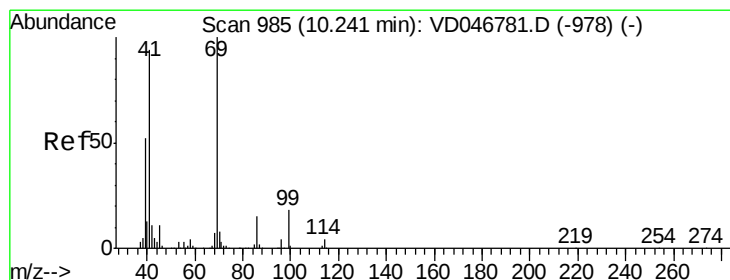
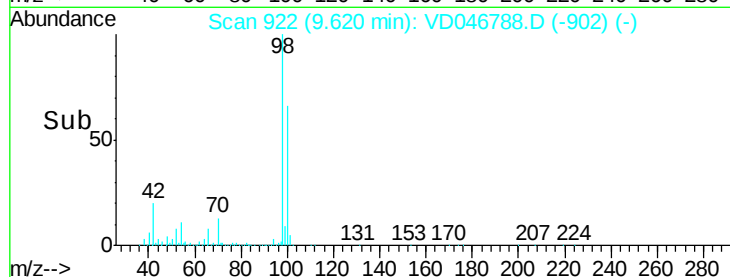
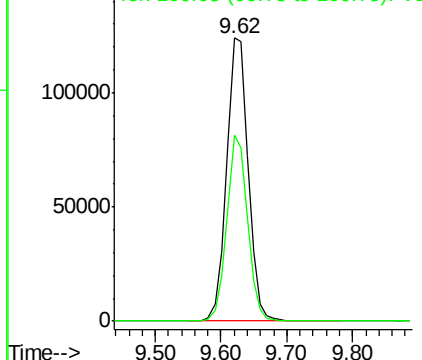
98 100

100 65.8 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VD0

Ion 100.05 (99.75 to 100.75): VD



#56

Ethyl methacrylate

Concen: 3.95 ug/l

RT: 10.25 min Scan# 986

Delta R.T. 0.01 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

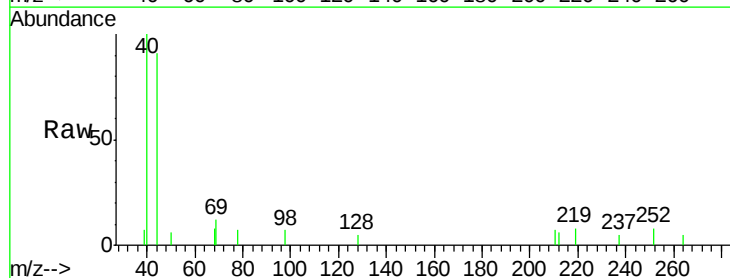
Tgt Ion: 69 Resp: 106

Ion Ratio Lower Upper

69 100

41 0.0 75.4 113.0#

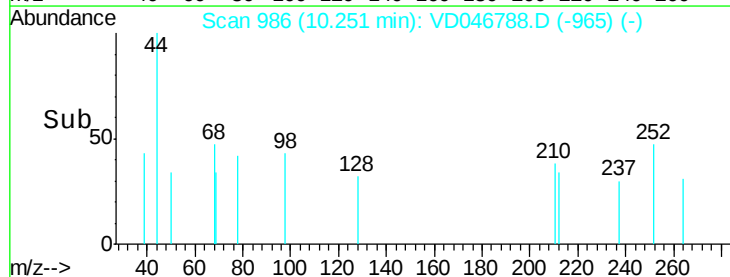
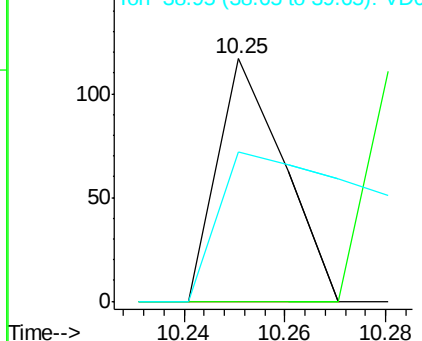
39 61.5 41.0 61.4#

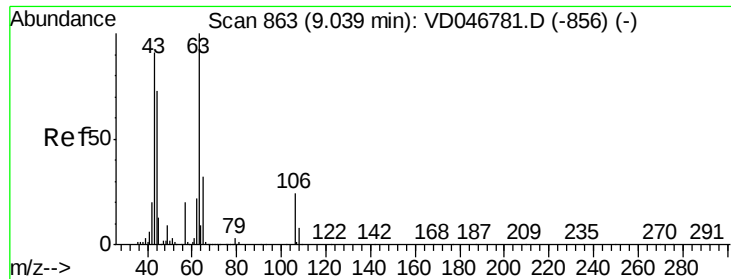


Abundance Ion 69.00 (68.70 to 69.70): VD0

Ion 41.05 (40.75 to 41.75): VD0

Ion 38.95 (38.65 to 39.65): VD0

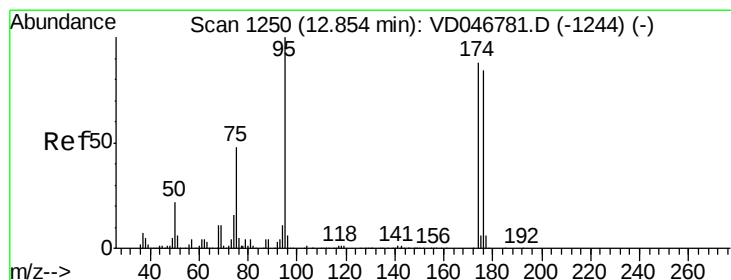
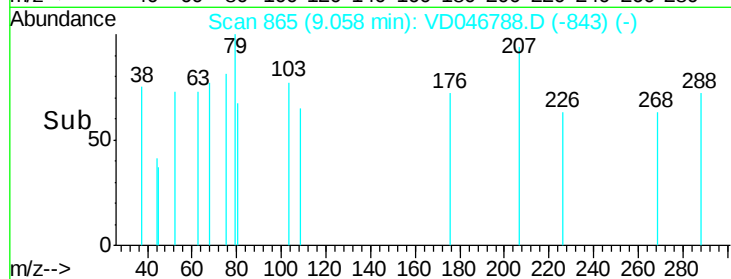
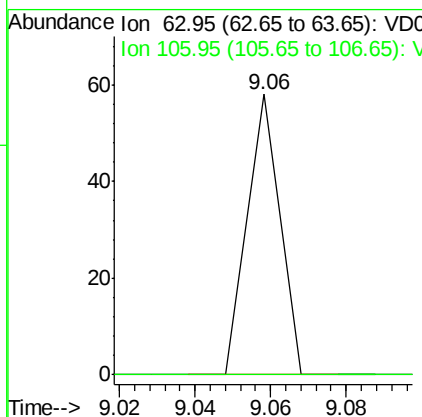
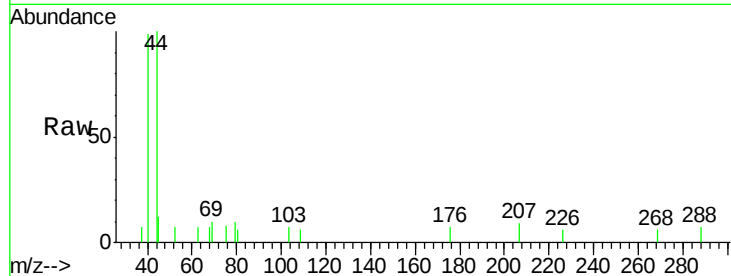




#58
 2-Chloroethyl Vinyl ether
 Concen: 6.38 ug/l
 RT: 9.06 min Scan# 865
 Delta R.T. 0.02 min
 Lab File: VD046788.D
 Acq: 18 Sep 2015 17:54

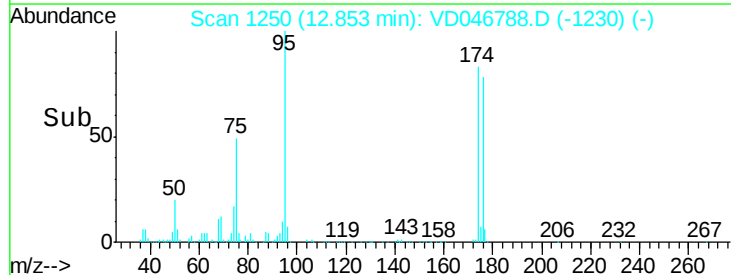
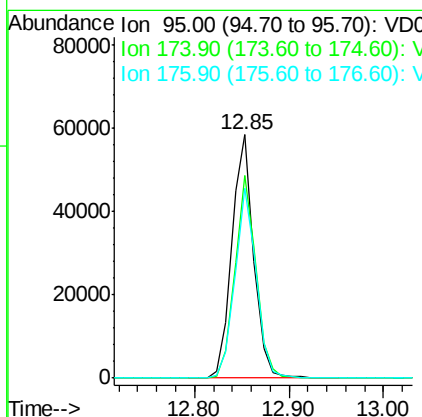
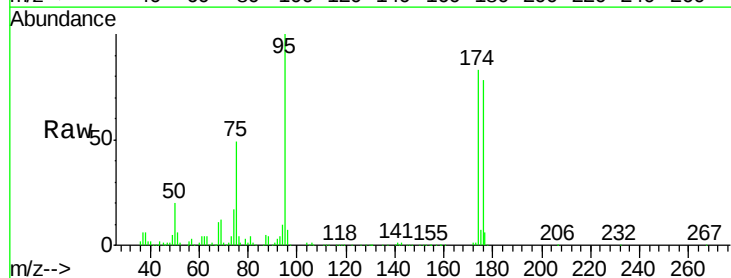
Instrument :
 MSVOA_D
 ClientSampleId :

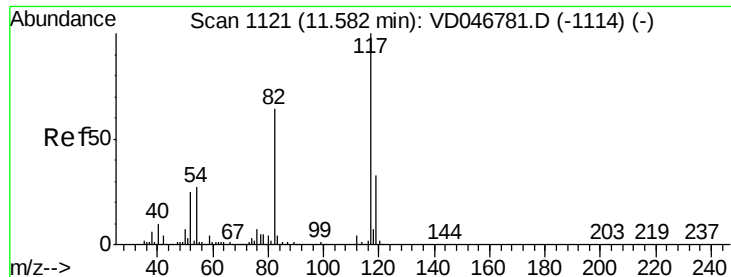
Tot Ion: 63 Resp: 34
 Ion Ratio Lower Upper
 63 100
 106 0.0 17.8 26.8#



#62
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.85 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VD046788.D
 Acq: 18 Sep 2015 17:54

Tgt Ion: 95 Resp: 92785
 Ion Ratio Lower Upper
 95 100
 174 83.0 0.0 149.8
 176 77.8 0.0 143.4

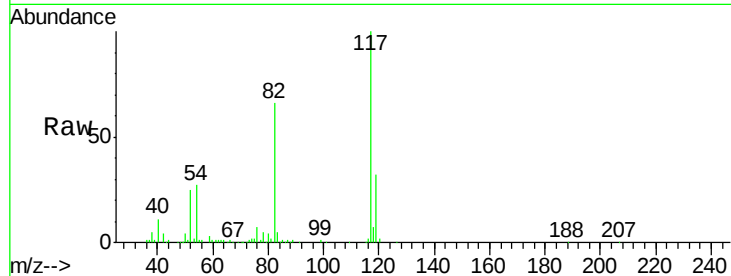




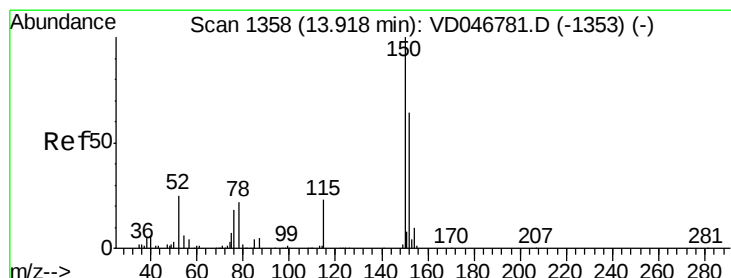
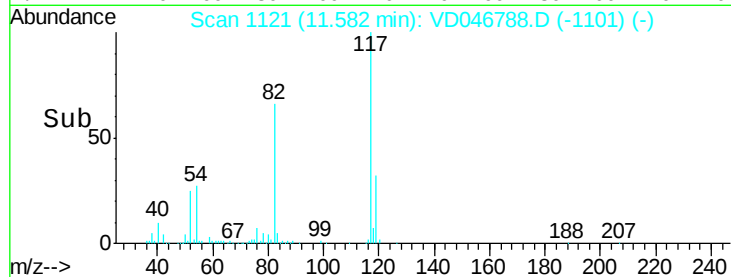
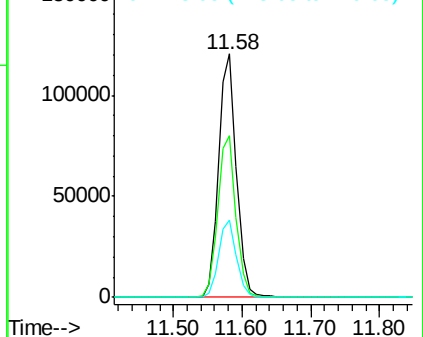
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. -0.00 min
Lab File: VD046788.D
Acq: 18 Sep 2015 17:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 215573
Ion Ratio Lower Upper
117 100
82 66.5 50.6 75.8
119 31.8 25.8 38.8

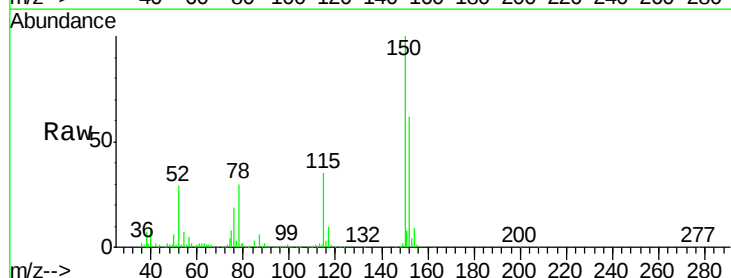


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

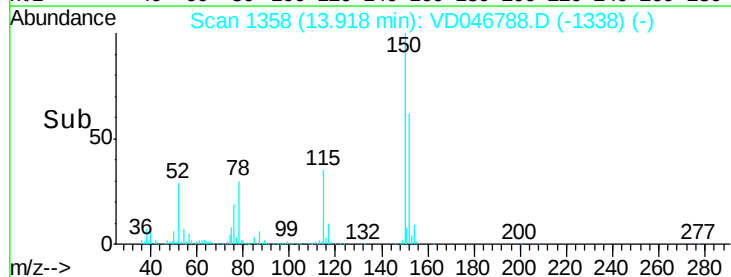
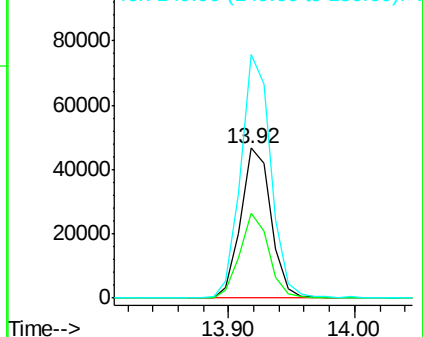


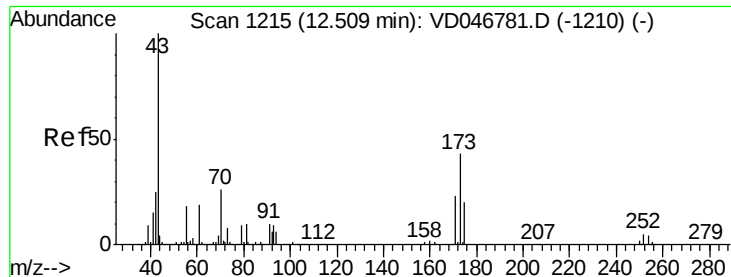
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.92 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VD046788.D
Acq: 18 Sep 2015 17:54

Tgt Ion:152 Resp: 78137
Ion Ratio Lower Upper
152 100
115 56.9 26.2 78.6
150 162.6 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-amvl acetate

Concen: 4.79 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. 0.00 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 117

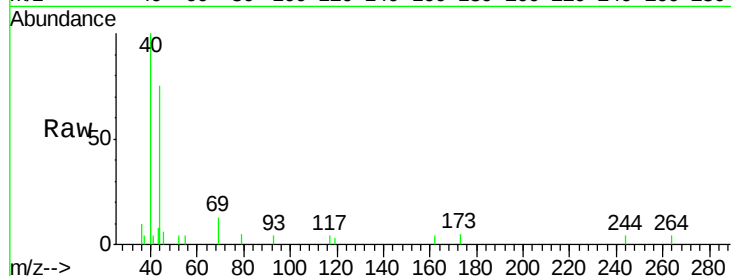
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 54.0 14.5 21.7#

61 0.0 14.6 21.8#

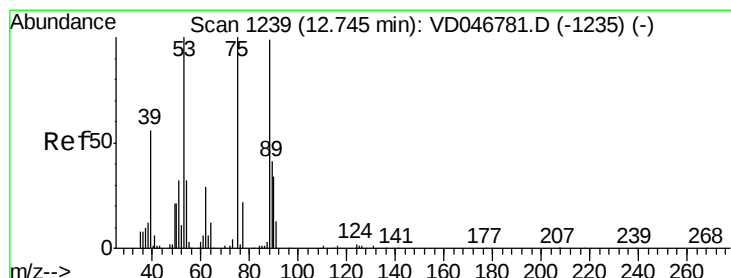
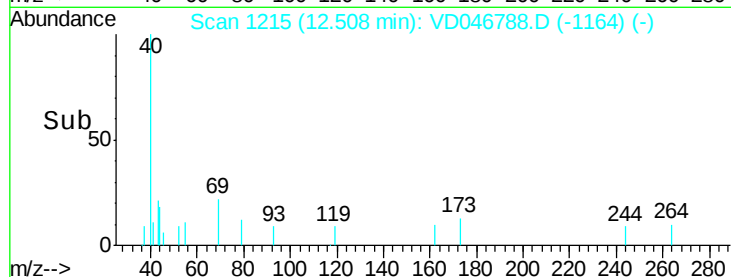
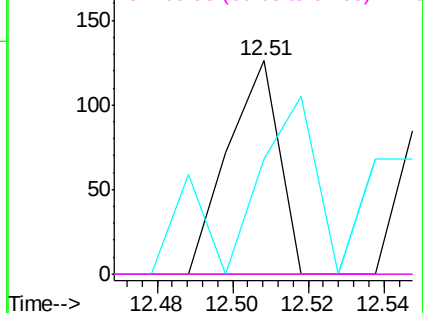


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 166.82 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. 0.11 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

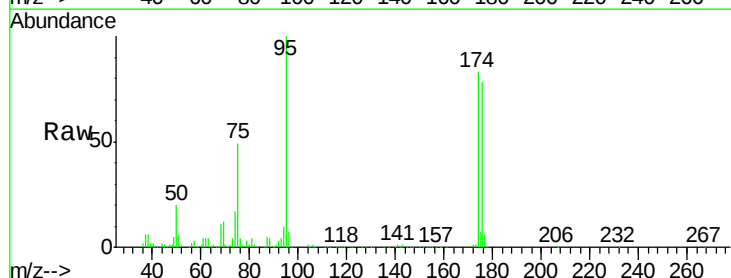
Tgt Ion: 75 Resp: 46148

Ion Ratio Lower Upper

75 100

53 0.0 82.3 123.5#

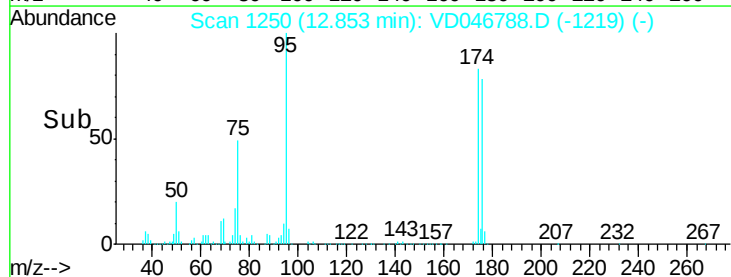
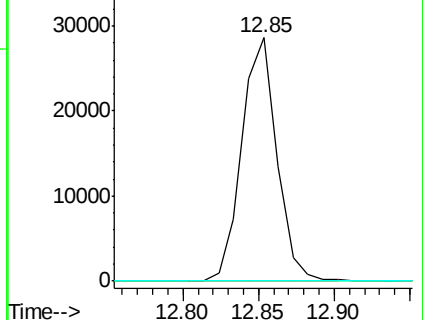
89 0.0 36.6 54.8#

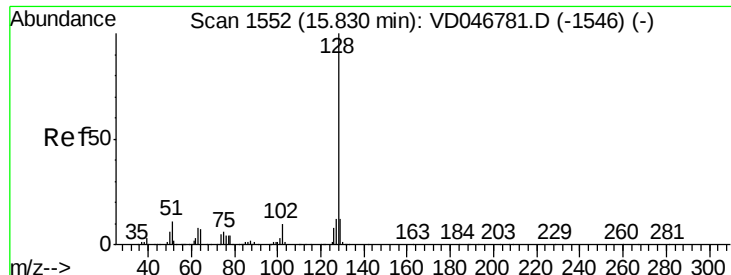


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 2.78 ug/l

RT: 15.83 min Scan# 1552

Delta R.T. 0.00 min

Lab File: VD046788.D

Acq: 18 Sep 2015 17:54

Instrument :

MSVOA_D

ClientSampleId :

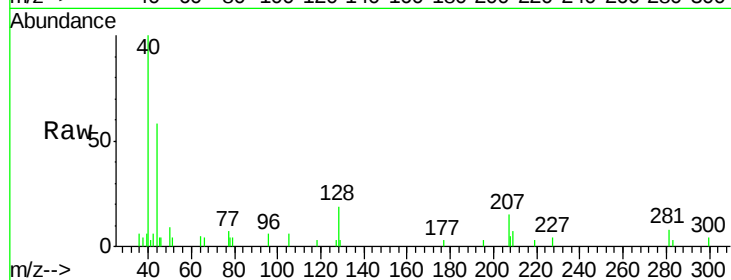
Tot Ion:128 Resp: 694

Ion Ratio Lower Upper

128 100

127 14.3 9.8 14.6

129 14.3 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

