

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046799.D
 Acq On : 21 Sep 2015 11:41
 Operator : FY/SY
 Sample : VD0921SBL01
 Misc : 5.00gm/5mL/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0921SBL01

Quant Time: Sep 22 01:01:15 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	184801	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.42	114	247354	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.56	117	232908	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.90	152	116381	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.70	65	108559	56.50	ug/l	-0.01
Spiked Amount			Recovery	=	113.00%	
35) Dibromofluoromethane	6.20	113	103738	53.60	ug/l	-0.02
Spiked Amount			Recovery	=	107.20%	
50) Toluene-d8	9.61	98	327772	53.69	ug/l	-0.01
Spiked Amount			Recovery	=	107.38%	
62) 4-Bromofluorobenzene	12.84	95	126454	51.44	ug/l	-0.01
Spiked Amount			Recovery	=	102.88%	

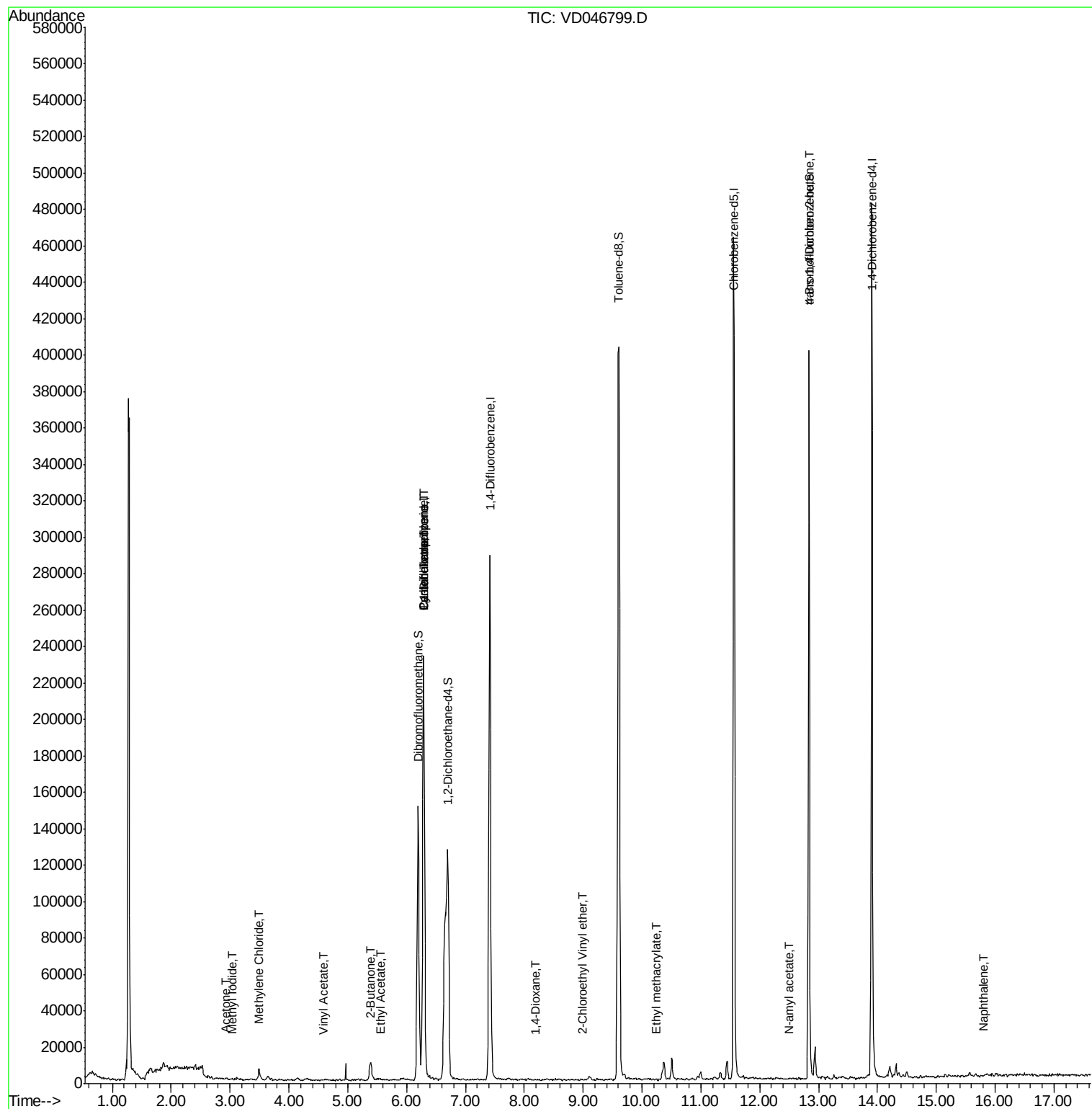
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.41	85	672	Below Cal		91
3) Chlorodifluoromethane	1.43	51	1318	Below Cal		93
6) Bromomethane	1.91	94	150	Below Cal	#	2
11) Methyl Iodide	3.03	142	235	1.84	ug/l #	35
12) Tert butyl alcohol	3.63	59	1428	Below Cal	#	74
17) Acetone	2.93	43	1117	3.44	ug/l #	56
21) Methylene Chloride	3.49	84	2839	1.61	ug/l	84
24) Vinyl Acetate	4.58	43	90	15.06	ug/l #	82
26) 2-Butanone	5.38	43	860	2.36	ug/l	98
31) Cyclohexane	6.28	56	5212	1.81	ug/l #	1
36) 1,1-Dichloropropene	6.28	75	16457	5.69	ug/l #	53
37) Ethyl Acetate	5.55	43	1088	1.17	ug/l #	86
38) Carbon Tetrachloride	6.28	117	17923	5.97	ug/l #	17
49) 1,4-Dioxane	8.19	88	44	6.36	ug/l #	20
56) Ethyl methacrylate	10.23	69	178	4.01	ug/l #	35
58) 2-Chloroethyl Vinyl ether	8.98	63	40	6.39	ug/l #	53
74) N-amyl acetate	12.49	43	33	4.73	ug/l #	54
81) trans-1,4-Dichloro-2-buten	12.84	75	62280	151.51	ug/l #	9
95) Naphthalene	15.81	128	393	2.53	ug/l #	70

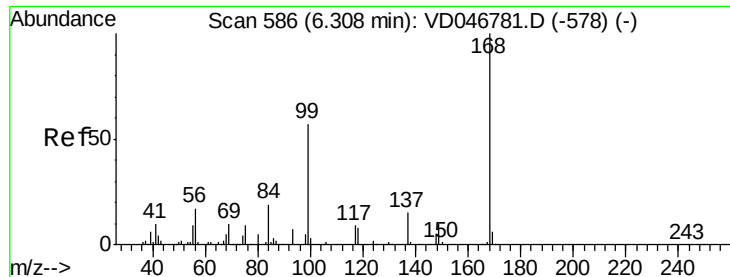
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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. -0.01 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

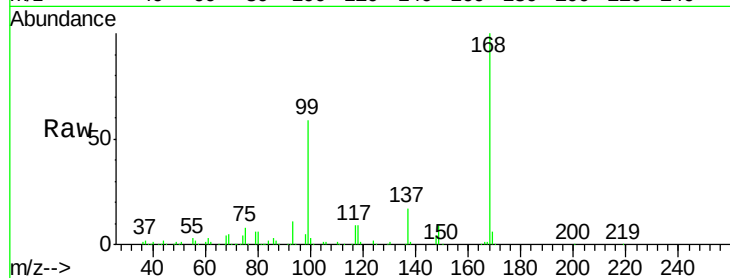
VD0921SBL01

Tot Ion:168 Resp: 184801

Ion Ratio Lower Upper

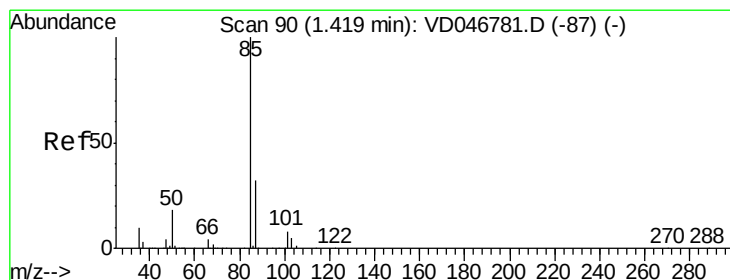
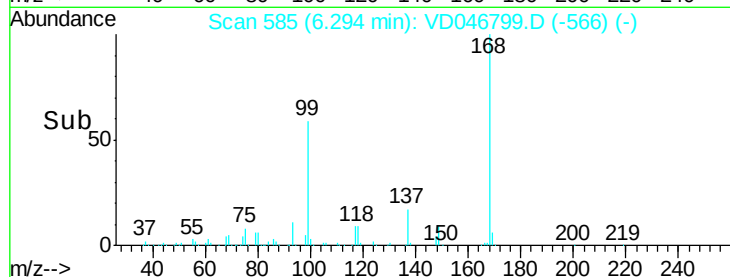
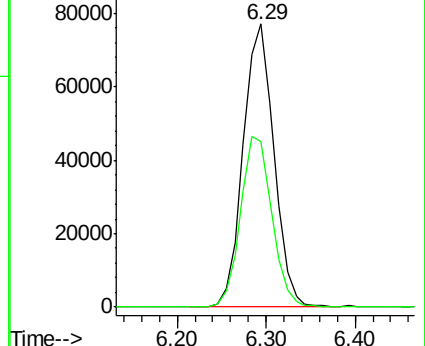
168 100

99 58.6 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: 1.41 min Scan# 90

Delta R.T. -0.00 min

Lab File: VD046799.D

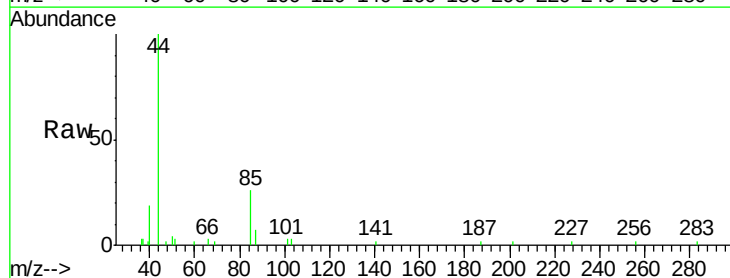
Acq: 21 Sep 2015 11:41

Tgt Ion: 85 Resp: 672

Ion Ratio Lower Upper

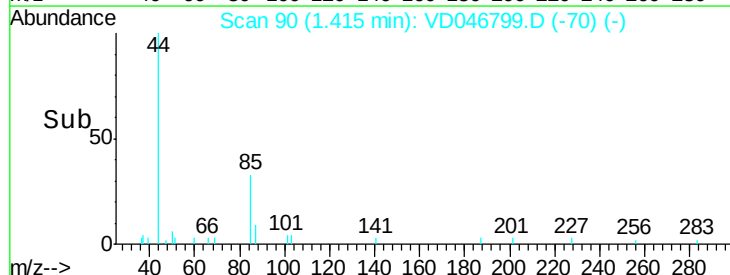
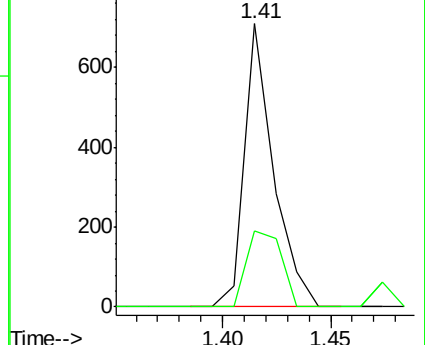
85 100

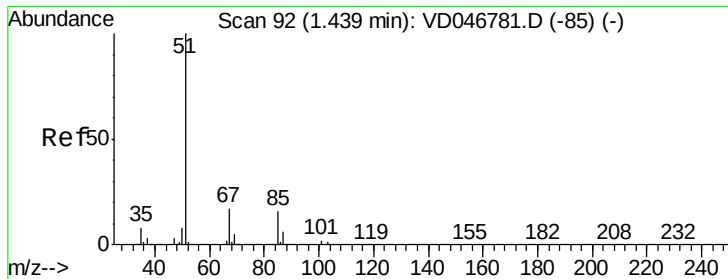
87 27.1 16.2 48.5



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: 1.43 min Scan# 92

Delta R.T. -0.00 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

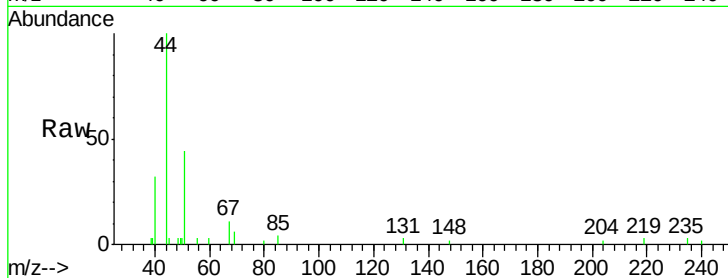
VD0921SBL01

Tot Ion: 51 Resp: 1318

Ion Ratio Lower Upper

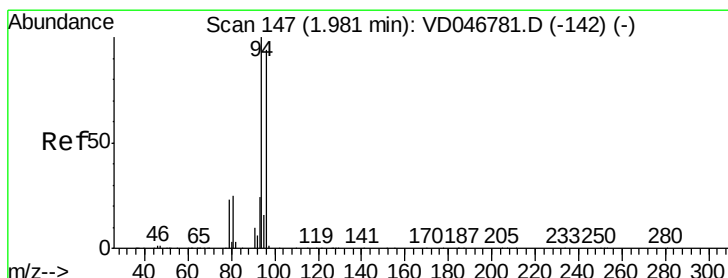
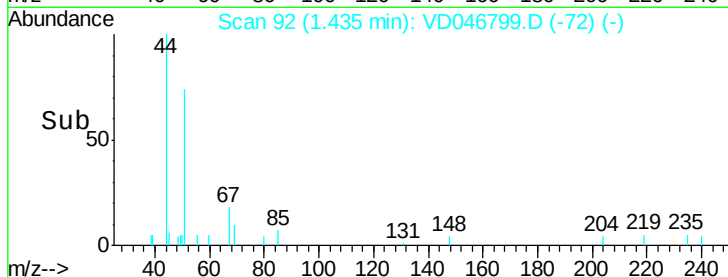
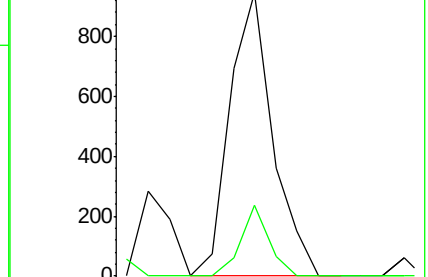
51 100

67 16.3 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: 1.91 min Scan# 140

Delta R.T. -0.07 min

Lab File: VD046799.D

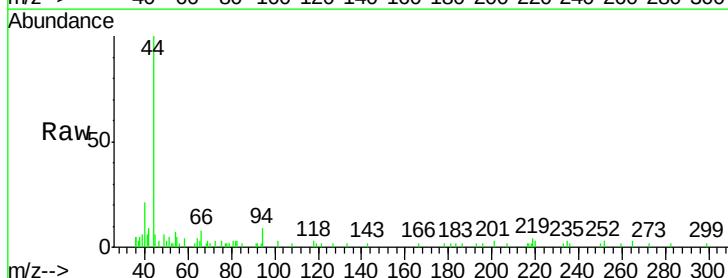
Acq: 21 Sep 2015 11:41

Tgt Ion: 94 Resp: 150

Ion Ratio Lower Upper

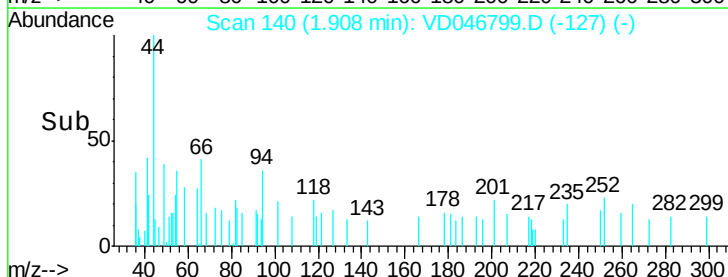
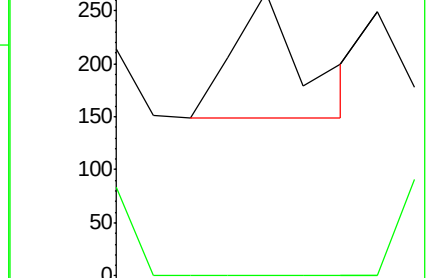
94 100

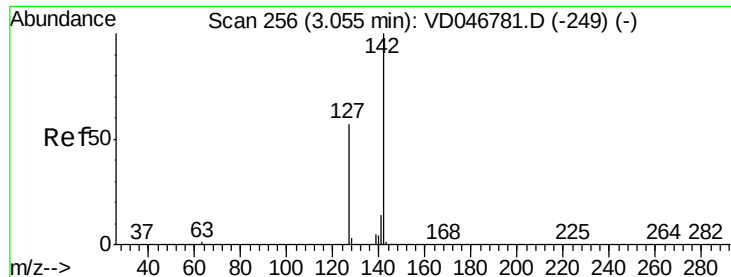
96 0.0 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

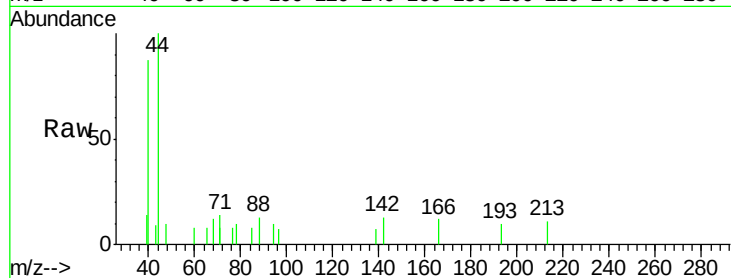




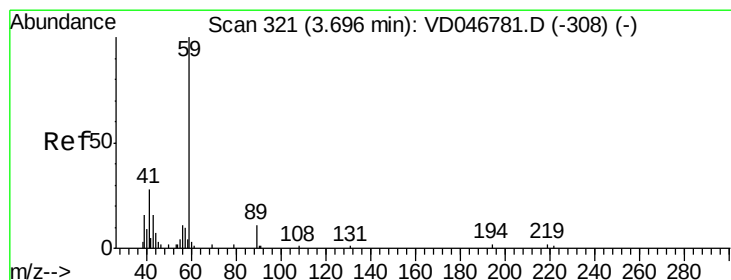
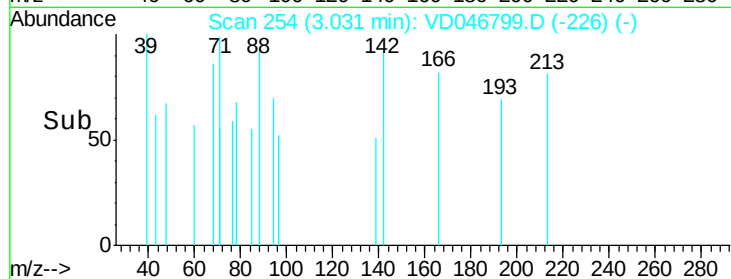
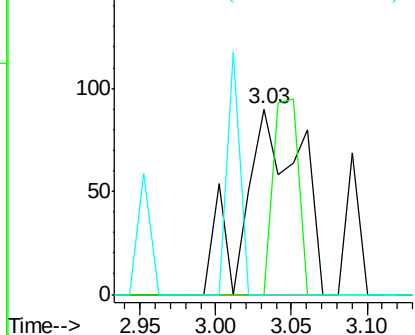
#11
Methvl Iodide
Concen: 1.84 ua/l
RT: 3.03 min Scan# 254
Delta R.T. -0.02 min
Lab File: VD046799.D
Acq: 21 Sep 2015 11:41

Instrument :
MSVOA_D
ClientSampleId :
VD0921SBL01

Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	41.2	61.8#
141	0.0	11.6	17.4#

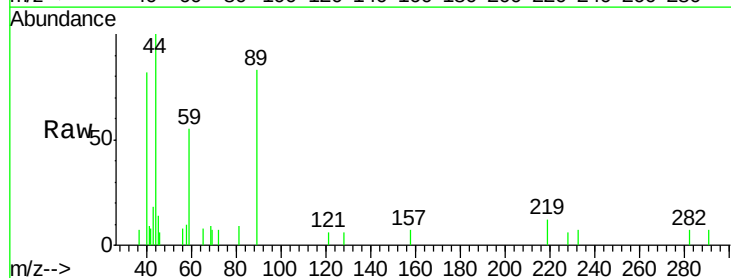


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

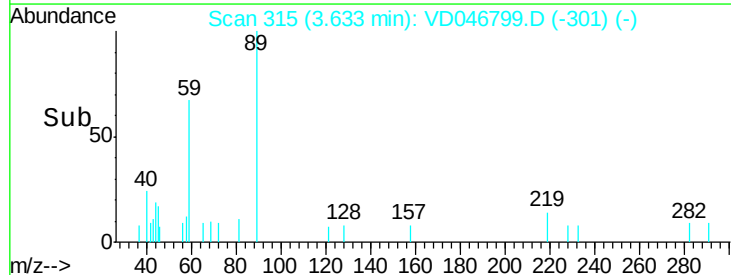
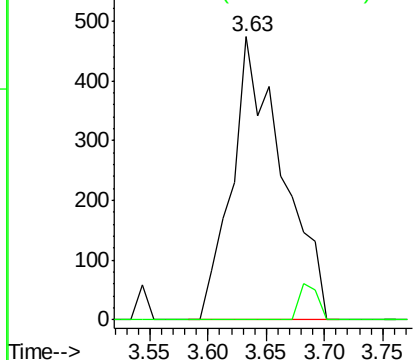


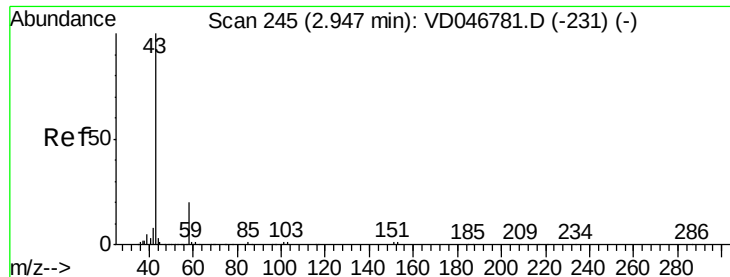
#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.63 min Scan# 315
Delta R.T. -0.06 min
Lab File: VD046799.D
Acq: 21 Sep 2015 11:41

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



Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC





#17

Acetone

Concen: 3.44 ug/l

RT: 2.93 min Scan# 244

Delta R.T. -0.01 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

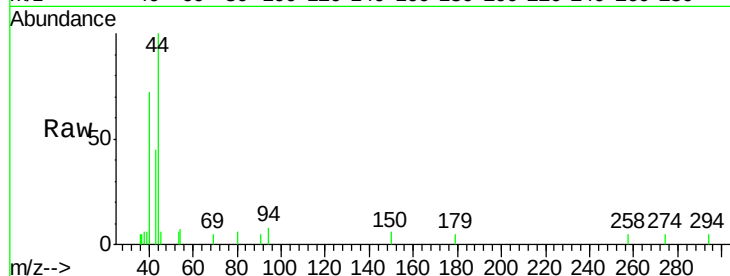
VD0921SBL01

Tot Ion: 43 Resp: 1117

Ion Ratio Lower Upper

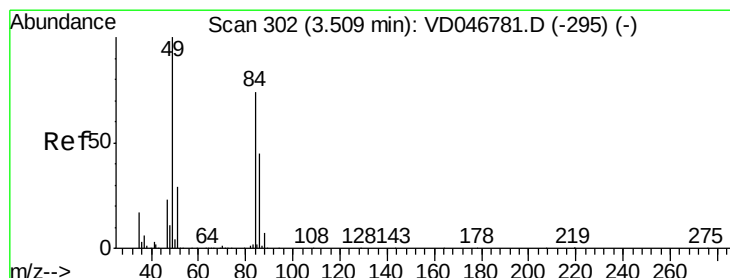
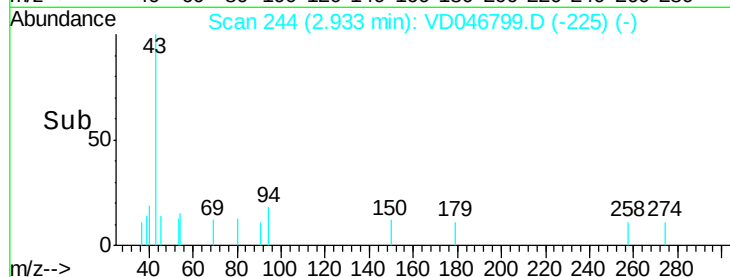
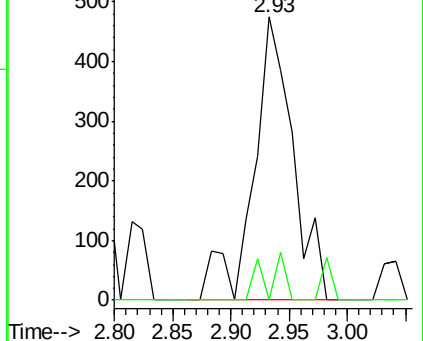
43 100

58 0.0 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: 1.61 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.01 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Tgt Ion: 84 Resp: 2839

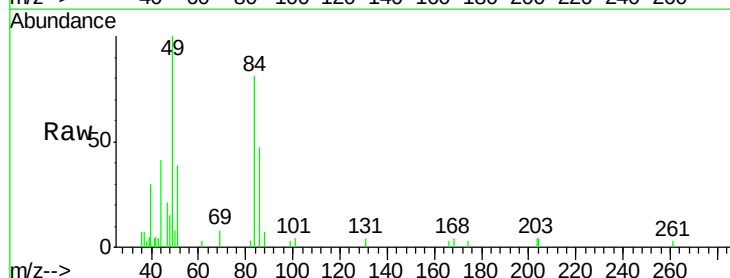
Ion Ratio Lower Upper

84 100

49 123.0 122.1 183.1

51 48.5 33.6 50.4

86 57.7 48.3 72.5

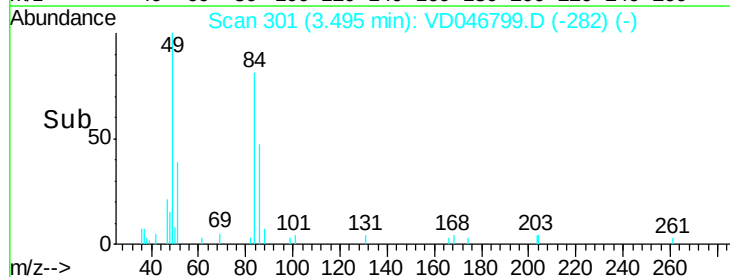
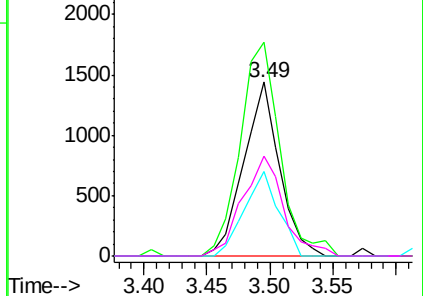


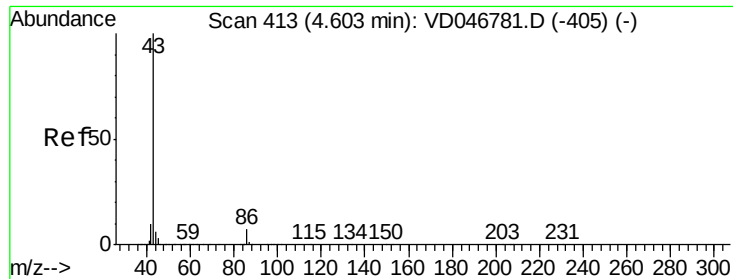
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 15.06 ug/l

RT: 4.58 min Scan# 411

Delta R.T. -0.02 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

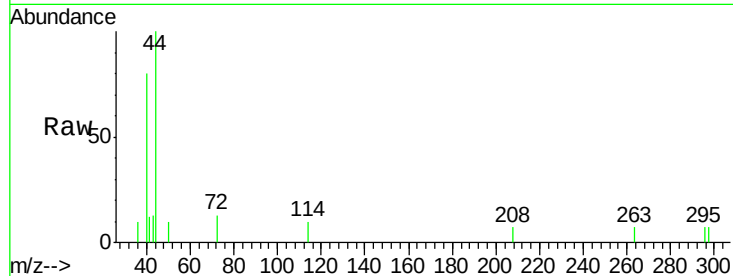
VD0921SBL01

Tot Ion: 43 Resp: 90

Ion Ratio Lower Upper

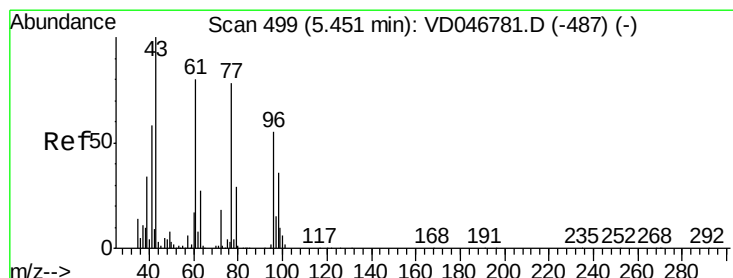
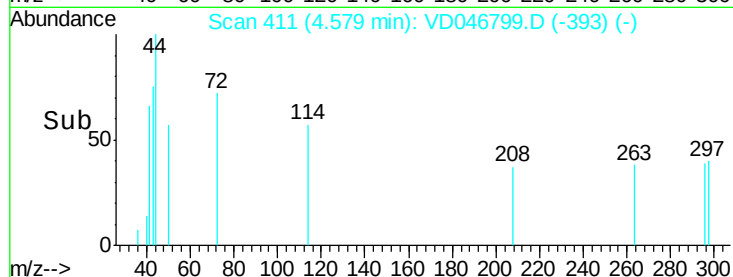
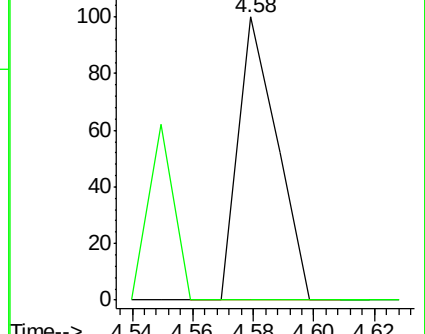
43 100

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: 2.36 ug/l

RT: 5.38 min Scan# 492

Delta R.T. -0.07 min

Lab File: VD046799.D

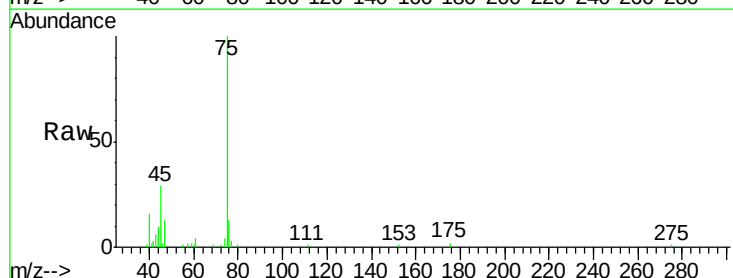
Acq: 21 Sep 2015 11:41

Tgt Ion: 43 Resp: 860

Ion Ratio Lower Upper

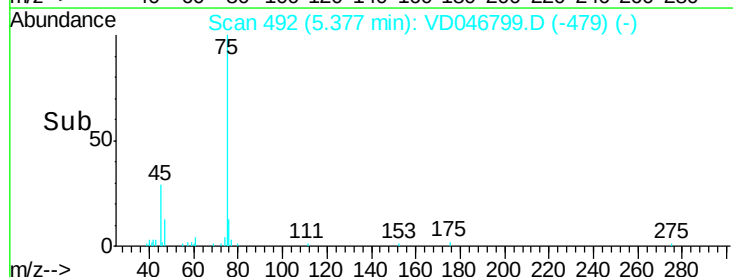
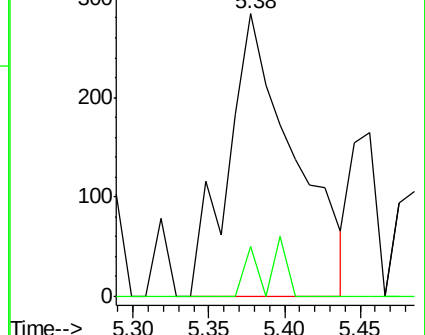
43 100

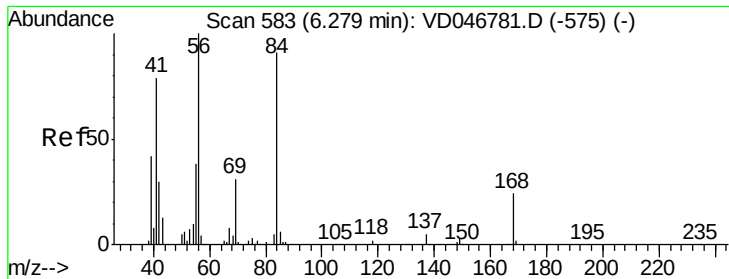
72 17.6 13.4 20.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

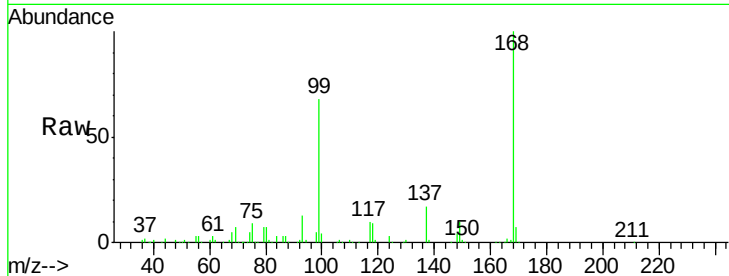




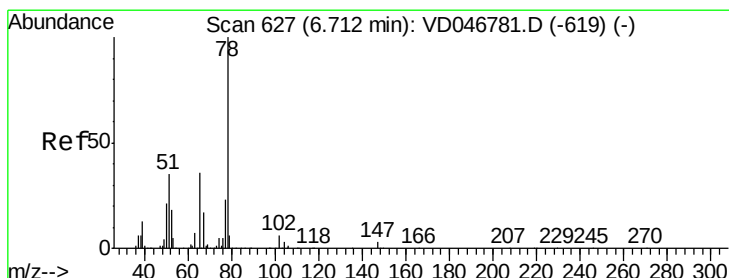
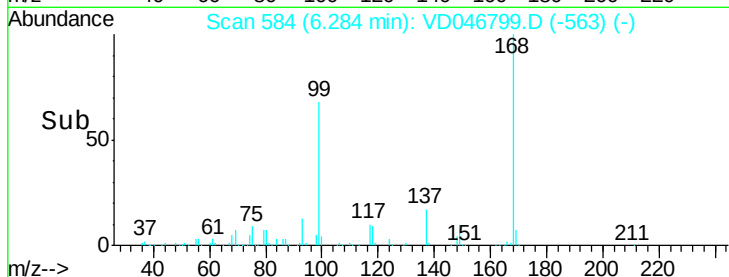
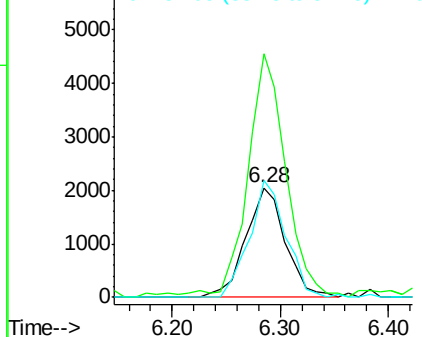
#31
Cyclohexane
Concen: 1.81 ug/l
RT: 6.28 min Scan# 584
Delta R.T. 0.01 min
Lab File: VD046799.D
Acq: 21 Sep 2015 11:41

Instrument :
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ClientSampleId :
VD0921SBL01

Tot Ion: 56 Resp: 5212
Ion Ratio Lower Upper
56 100
69 222.4 23.4 35.0#
84 106.3 63.8 95.8#

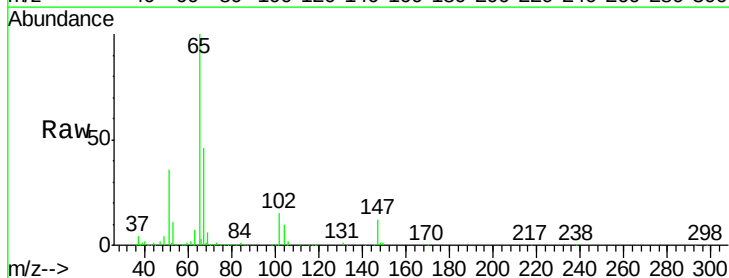


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

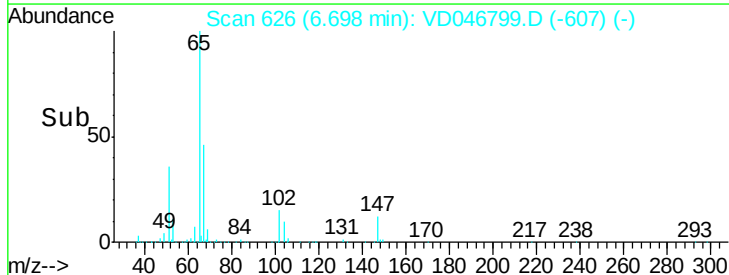
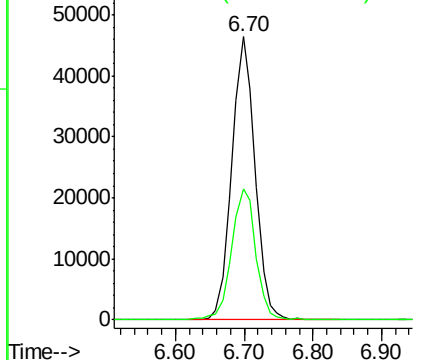


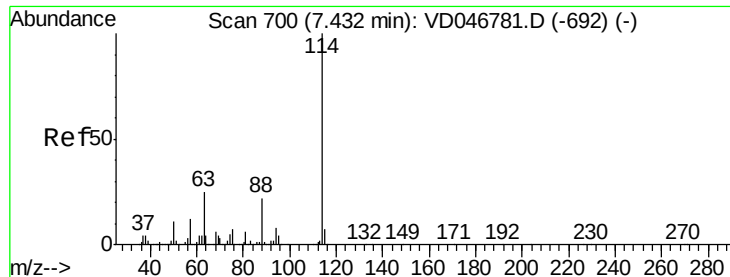
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.70 min Scan# 626
Delta R.T. -0.01 min
Lab File: VD046799.D
Acq: 21 Sep 2015 11:41

Tgt Ion: 65 Resp: 108559
Ion Ratio Lower Upper
65 100
67 46.3 0.0 105.4



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.01 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

VD0921SBL01

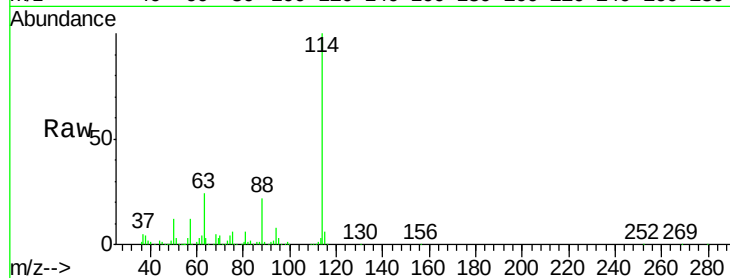
Tot Ion:114 Resp: 247354

Ion Ratio Lower Upper

114 100

63 23.5 0.0 49.8

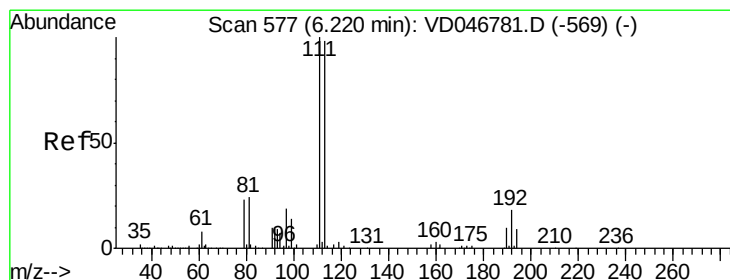
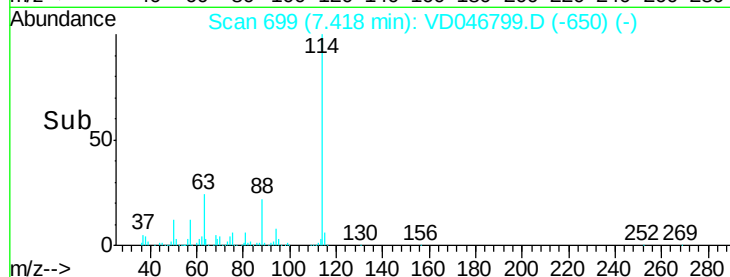
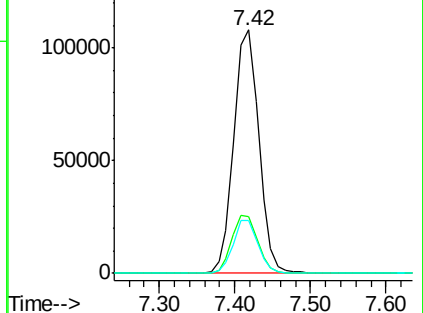
88 21.8 0.0 43.6



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: 6.20 min Scan# 575

Delta R.T. -0.02 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

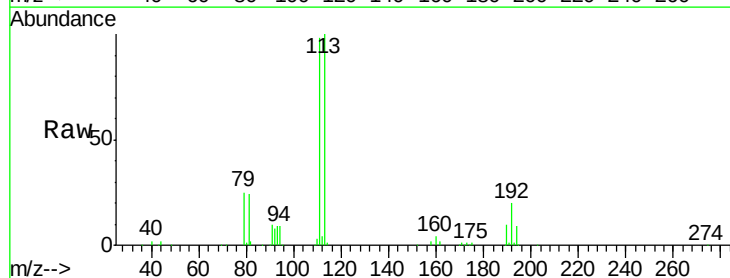
Tgt Ion:113 Resp: 103738

Ion Ratio Lower Upper

113 100

111 98.5 79.4 119.0

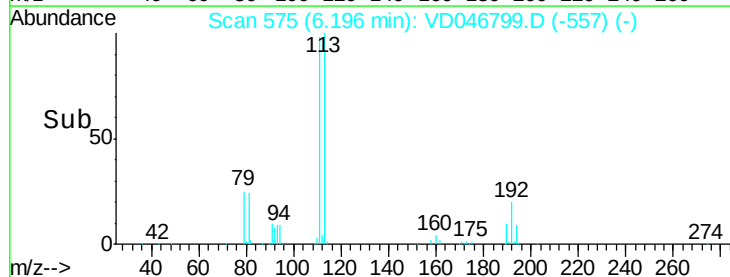
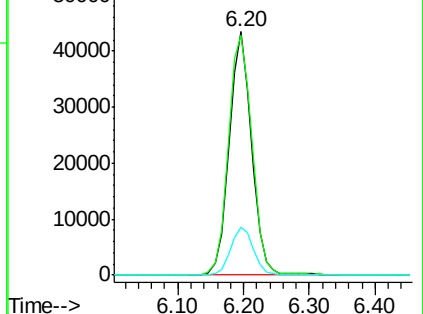
192 19.8 14.6 22.0

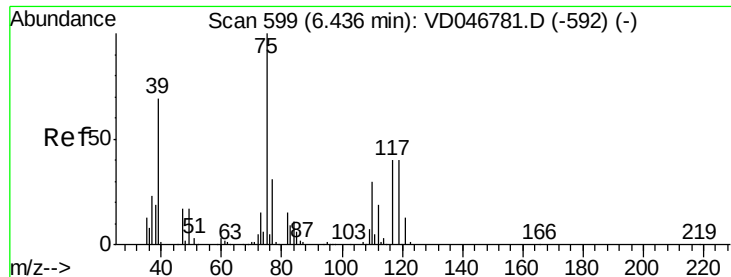


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.69 ug/l

RT: 6.28 min Scan# 584

Delta R.T. -0.15 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

VD0921SBL01

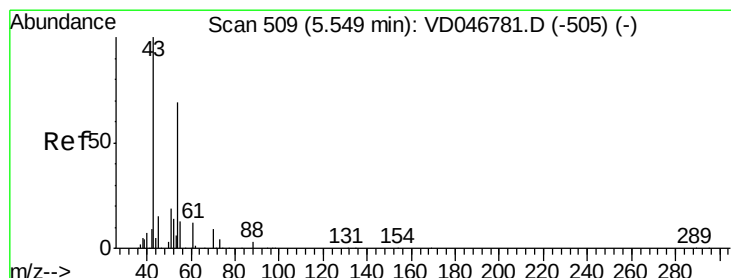
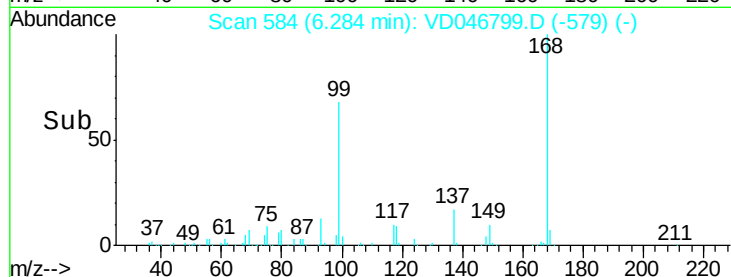
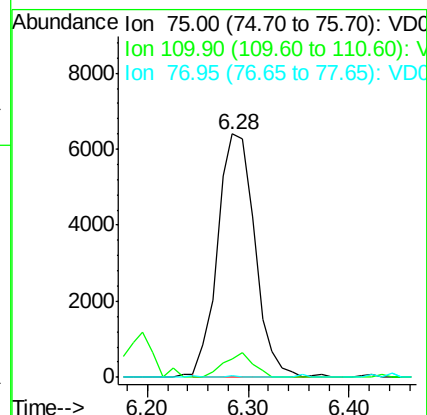
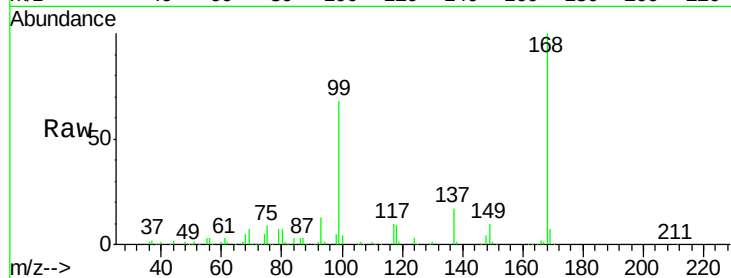
Tot Ion: 75 Resp: 16457

Ion Ratio Lower Upper

75 100

110 7.4 13.7 41.0#

77 0.9 24.7 37.1#



#37

Ethyl Acetate

Concen: 1.17 ug/l

RT: 5.55 min Scan# 509

Delta R.T. -0.00 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

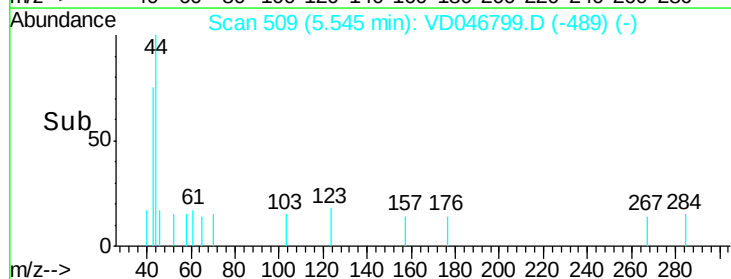
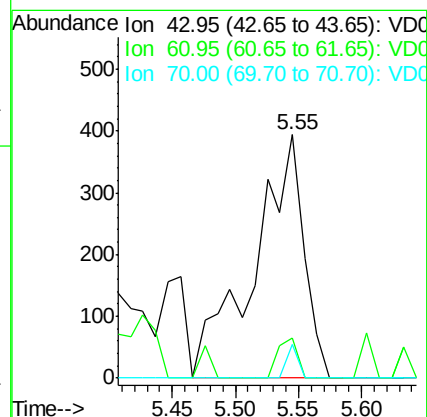
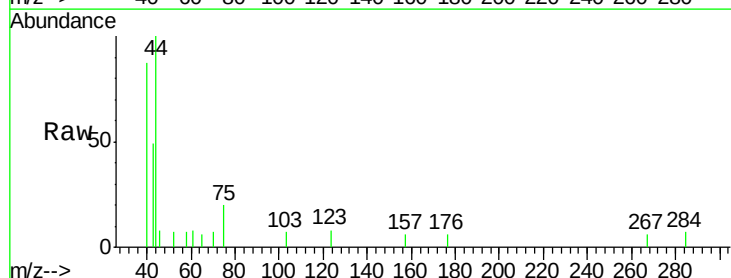
Tgt Ion: 43 Resp: 1088

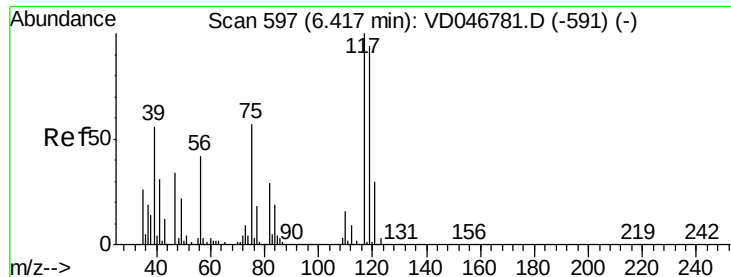
Ion Ratio Lower Upper

43 100

61 16.2 9.4 14.2#

70 13.7 6.0 9.0#





#38

Carbon Tetrachloride

Concen: 5.97 ug/l

RT: 6.28 min Scan# 584

Delta R.T. -0.13 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

VD0921SBL01

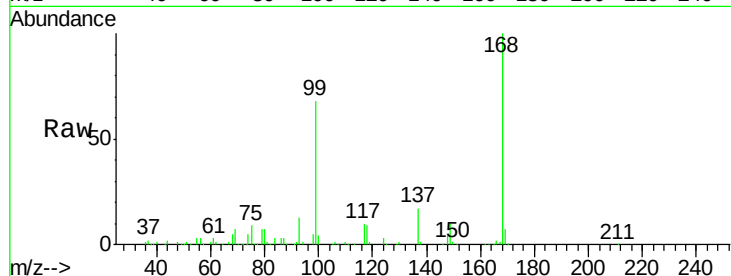
Tot Ion:117 Resp: 17923

Ion Ratio Lower Upper

117 100

119 6.6 76.2 114.4#

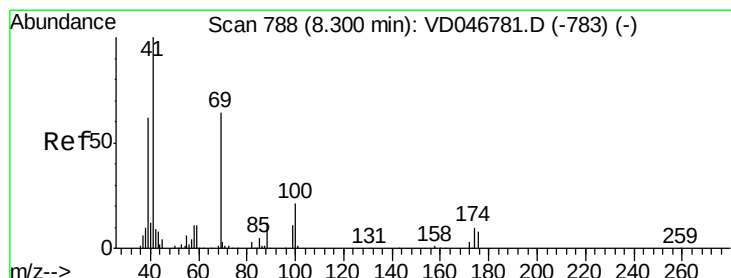
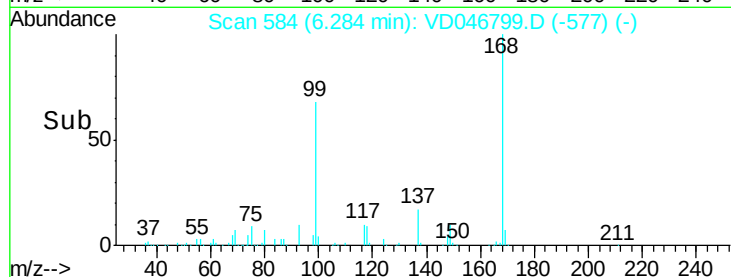
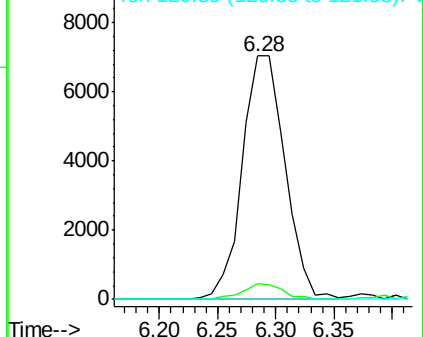
121 0.0 24.5 36.7#



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: 6.36 ug/l

RT: 8.19 min Scan# 777

Delta R.T. -0.11 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

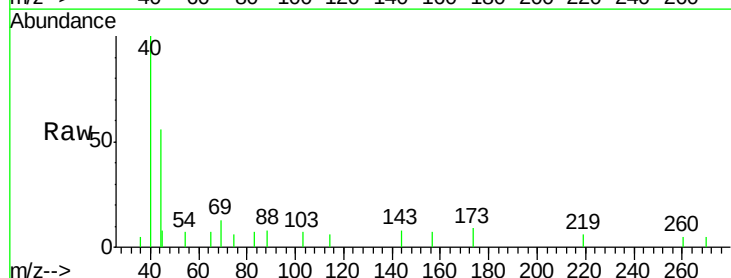
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

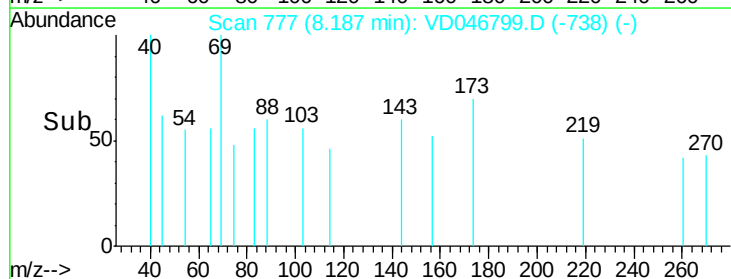
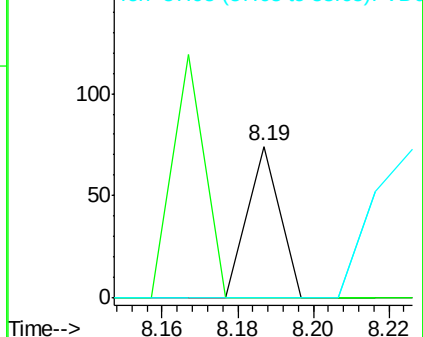
58 0.0 48.3 72.5#

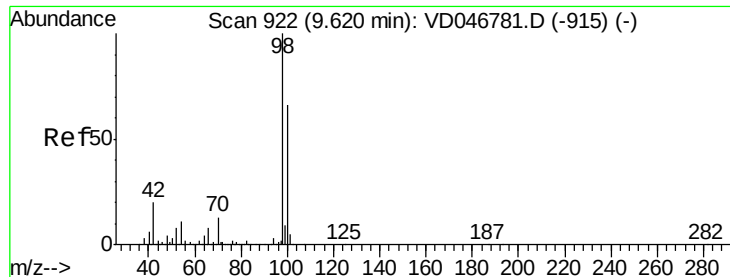


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 6.36 ug/l

RT: 9.61 min Scan# 921

Delta R.T. -0.01 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

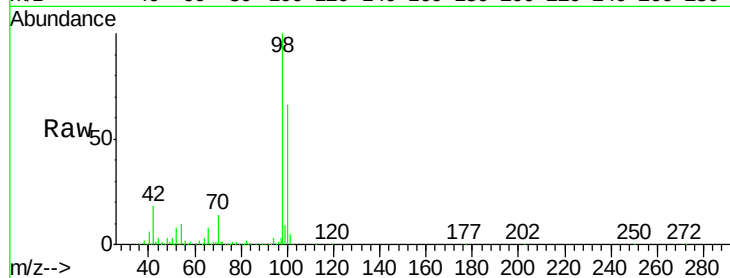
VD0921SBL01

Tot Ion: 98 Resp: 327772

Ion Ratio Lower Upper

98 100

100 66.5 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

9.61

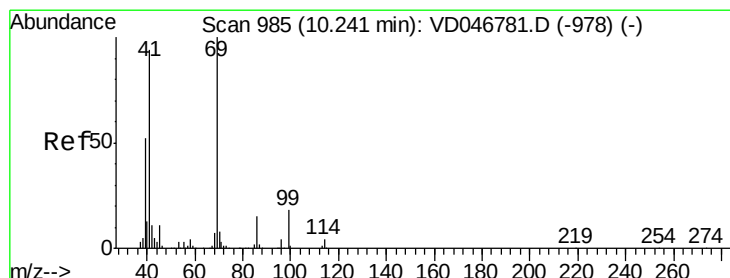
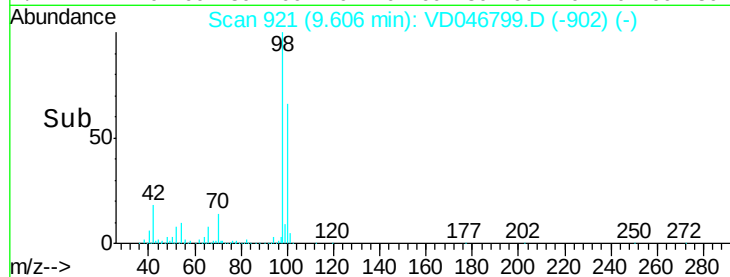
150000

100000

50000

0

Time-->



#56

Ethyl methacrylate

Concen: 4.01 ug/l

RT: 10.23 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

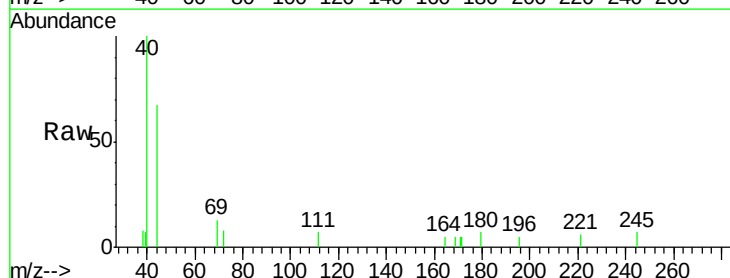
Tgt Ion: 69 Resp: 178

Ion Ratio Lower Upper

69 100

41 0.0 75.4 113.0#

39 55.2 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

10.23

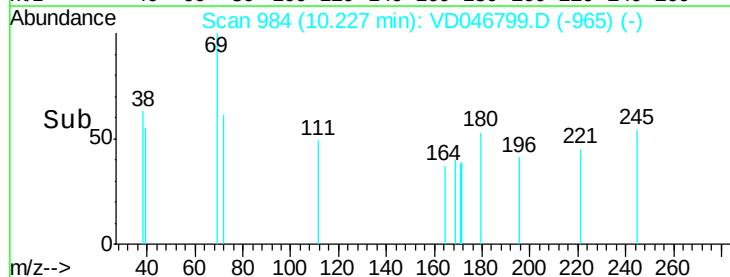
150

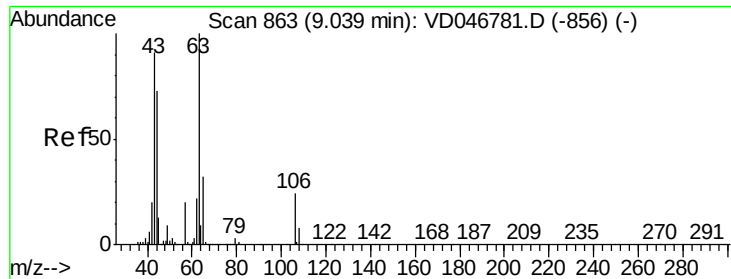
100

50

0

Time-->

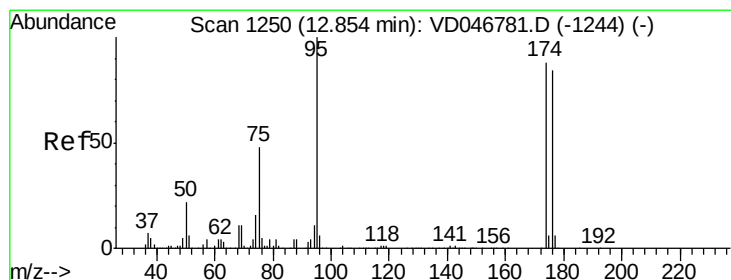
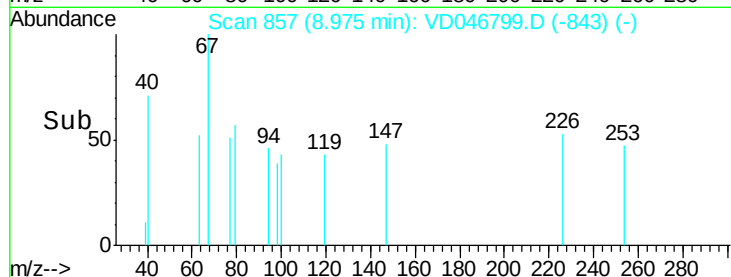
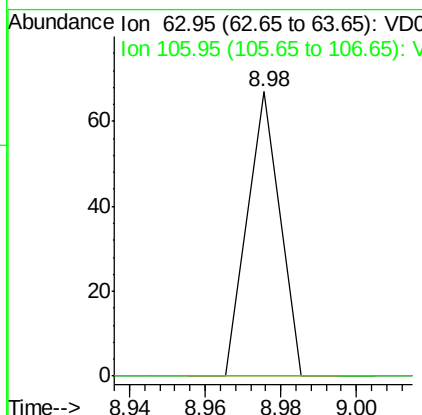
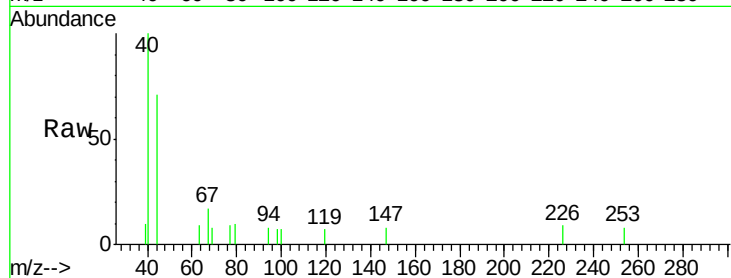




#58
 2-Chloroethyl Vinyl ether
 Concen: 6.39 ug/l
 RT: 8.98 min Scan# 857
 Delta R.T. -0.06 min
 Lab File: VD046799.D
 Acq: 21 Sep 2015 11:41

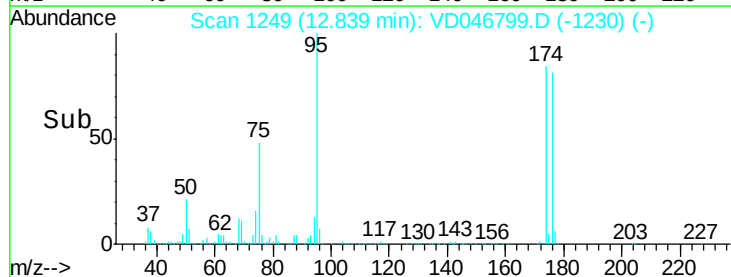
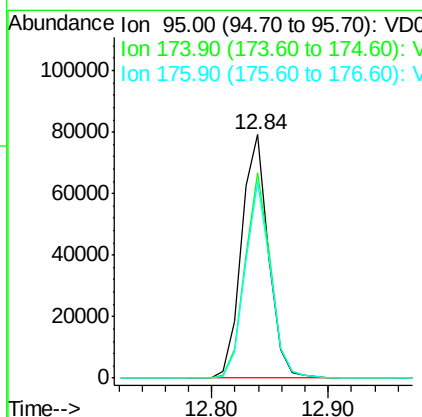
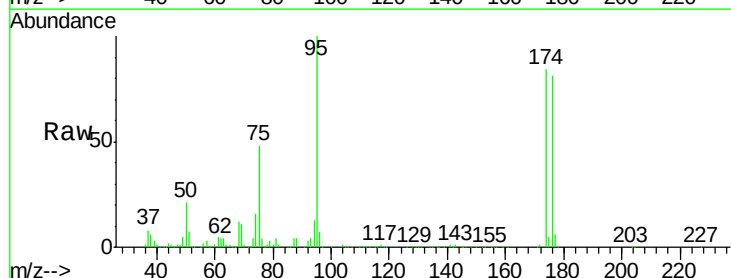
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0921SBL01

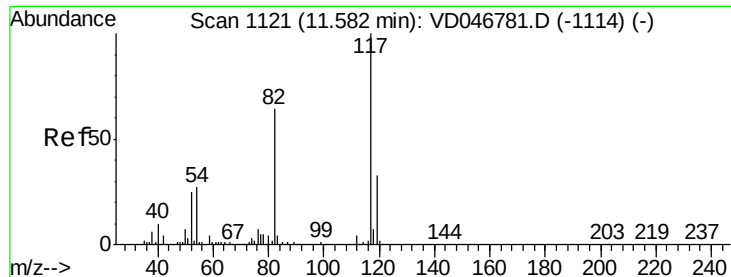
Tot Ion: 63 Resp: 40
 Ion Ratio Lower Upper
 63 100
 106 0.0 17.8 26.8#



#62
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.84 min Scan# 1249
 Delta R.T. -0.01 min
 Lab File: VD046799.D
 Acq: 21 Sep 2015 11:41

Tgt Ion: 95 Resp: 126454
 Ion Ratio Lower Upper
 95 100
 174 84.4 0.0 149.8
 176 80.5 0.0 143.4

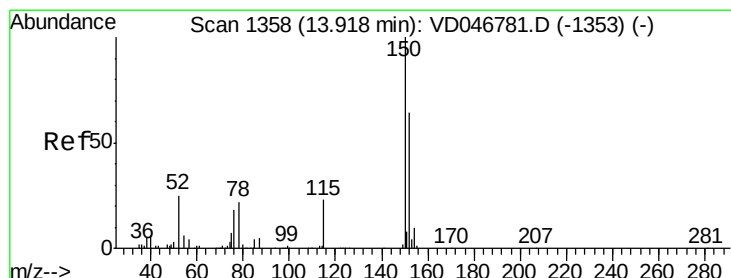
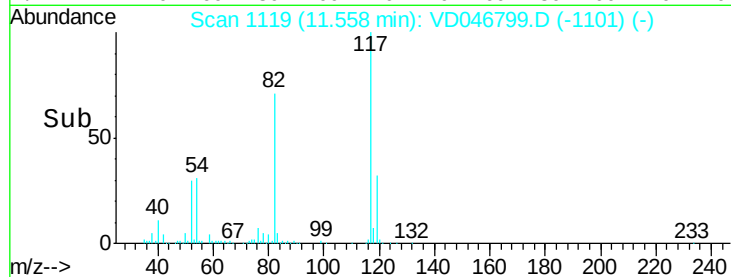
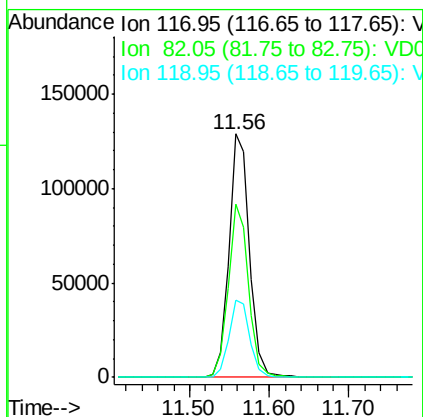
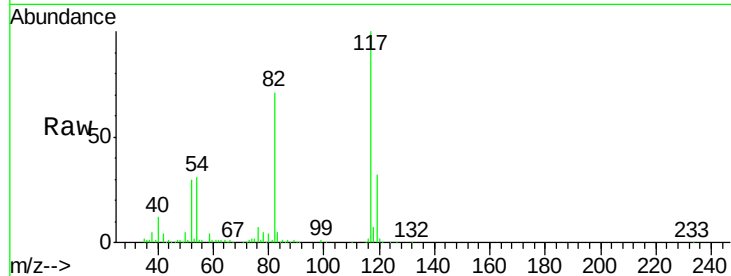




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.56 min Scan# 1119
Delta R.T. -0.02 min
Lab File: VD046799.D
Acq: 21 Sep 2015 11:41

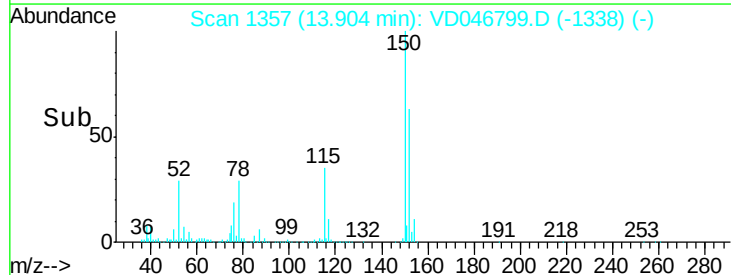
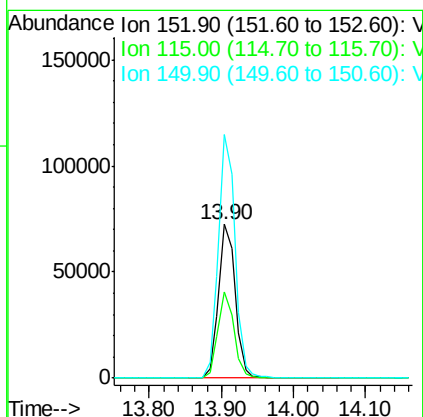
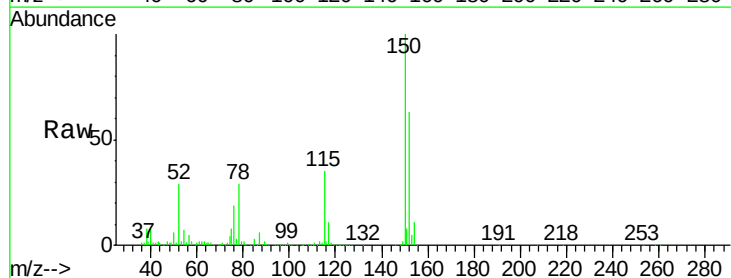
Instrument :
MSVOA_D
ClientSampleId :
VD0921SBL01

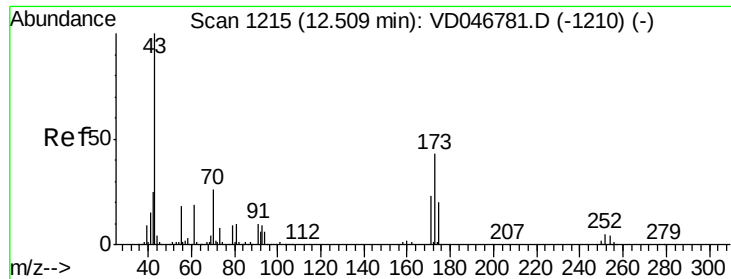
Tot Ion:117 Resp: 232908
Ion Ratio Lower Upper
117 100
82 71.4 50.6 75.8
119 31.9 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.90 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VD046799.D
Acq: 21 Sep 2015 11:41

Tgt Ion:152 Resp: 116381
Ion Ratio Lower Upper
152 100
115 56.0 26.2 78.6
150 158.2 0.0 311.8





#74

N-amvl acetate

Concen: 4.73 ug/l

RT: 12.49 min Scan# 1214

Delta R.T. -0.01 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampled :

VD0921SBL01

Tot Ion: 43 Resp: 33

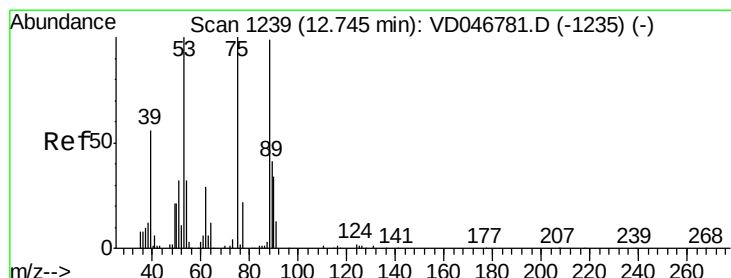
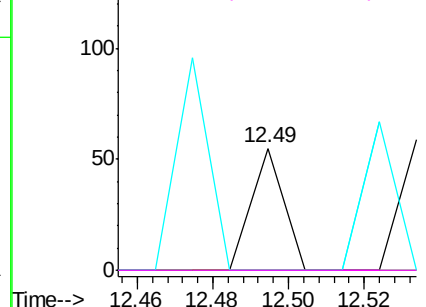
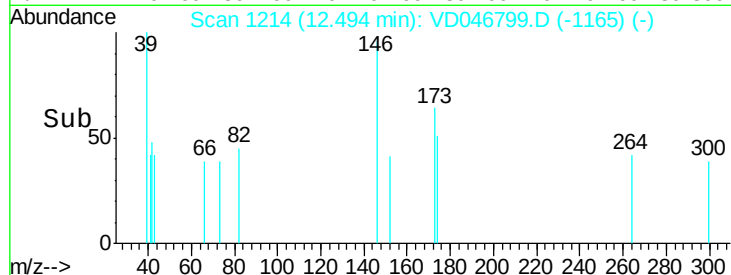
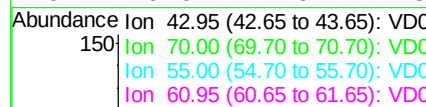
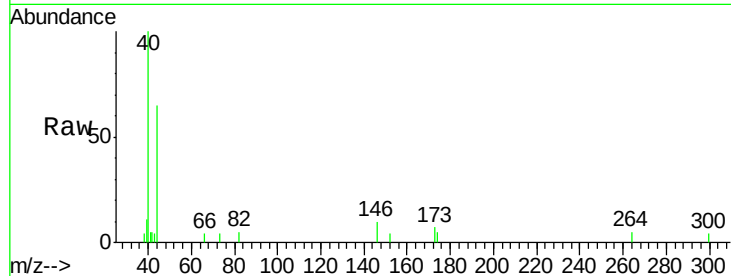
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 0.0 14.5 21.7#

61 0.0 14.6 21.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 151.51 ug/l

RT: 12.84 min Scan# 1249

Delta R.T. 0.09 min

Lab File: VD046799.D

Acq: 21 Sep 2015 11:41

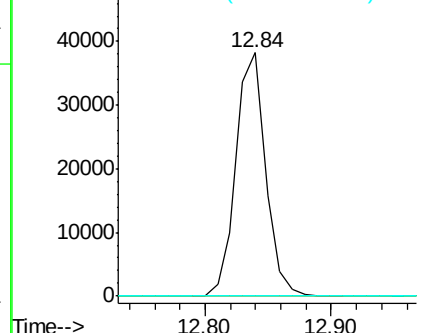
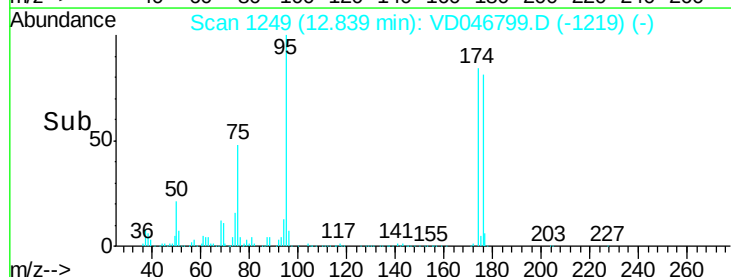
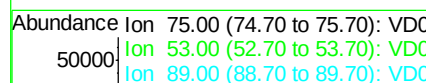
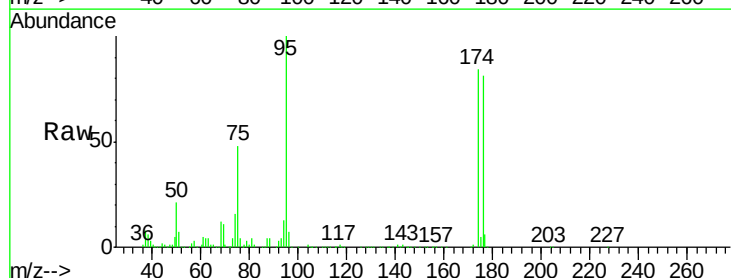
Tgt Ion: 75 Resp: 62280

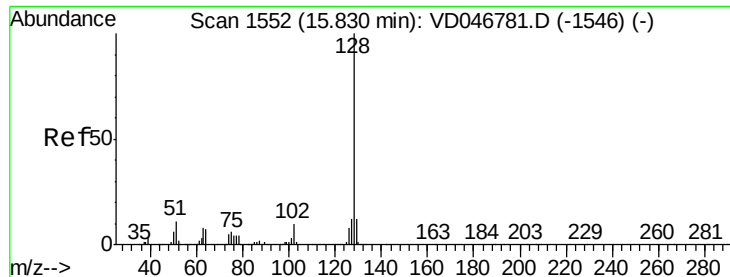
Ion Ratio Lower Upper

75 100

53 0.3 82.3 123.5#

89 0.0 36.6 54.8#





#95

Naphthalene

Concen: 2.53 ug/l

RT: 15.81 min Scan# 1550

Delta R.T. -0.02 min

Lab File: VD046799.D

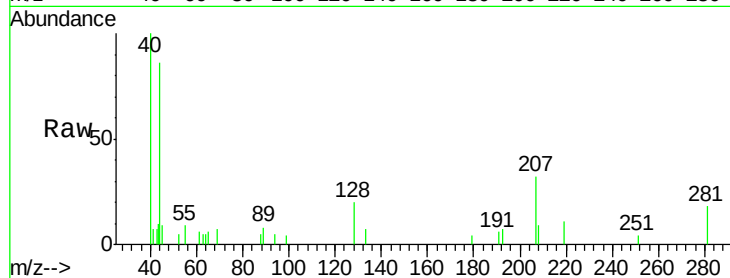
Acq: 21 Sep 2015 11:41

Instrument :

MSVOA_D

ClientSampleId :

VD0921SBL01



Tot Ion:	128	Resp:	393
Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.8	14.6#
129	0.0	8.6	12.8#

