

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092315\
 Data File : VD046857.D
 Acq On : 23 Sep 2015 16:02
 Operator : FY/SY
 Sample : G3779-03
 Misc : 5.03qm/5mL/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S2-10

Quant Time: Sep 24 01:47:04 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	6.30	168	151388	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.42	114	200961	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.57	117	181896	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.91	152	83515	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.71	65	75114	47.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.44%	
35) Dibromofluoromethane	6.20	113	73627	46.83	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	93.66%	
50) Toluene-d8	9.61	98	189671	38.24	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	76.48%	
62) 4-Bromofluorobenzene	12.84	95	71530	35.81	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	71.62%	

Target Compounds

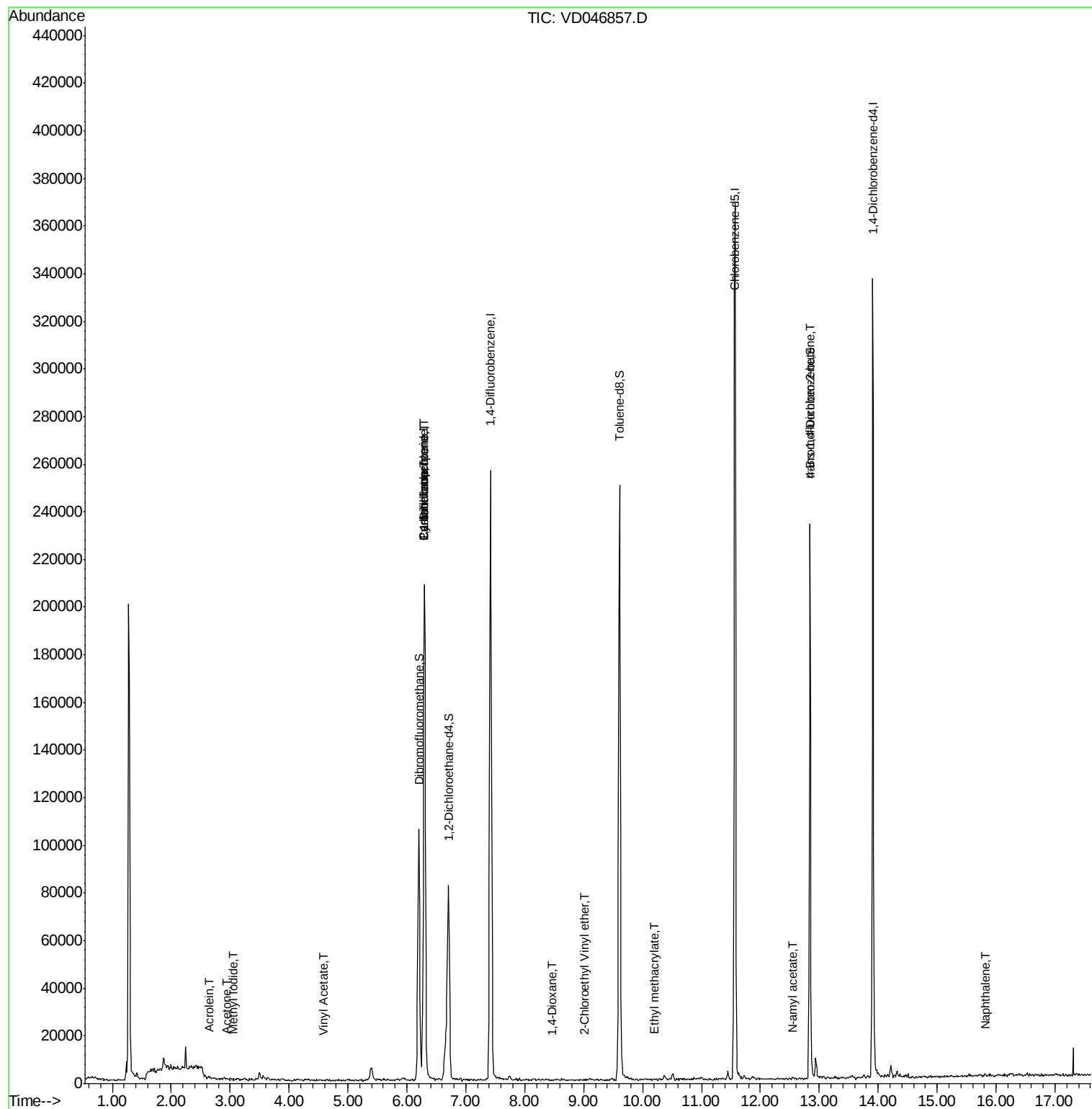
						Qvalue
2) Dichlorodifluoromethane	1.42	85	739	Below Cal		99
3) Chlorodifluoromethane	1.44	51	272	Below Cal	#	66
6) Bromomethane	1.88	94	174	Below Cal		88
11) Methyl Iodide	3.04	142	93	1.79	ug/l #	35
12) Tert butyl alcohol	3.66	59	525	Below Cal	#	74
14) Acrolein	2.64	56	96	1.19	ug/l #	10
17) Acetone	2.94	43	758	2.85	ug/l #	56
24) Vinyl Acetate	4.60	43	38	15.03	ug/l #	82
31) Cyclohexane	6.29	56	4379	1.85	ug/l #	28
36) 1,1-Dichloropropene	6.30	75	15098	6.43	ug/l #	53
38) Carbon Tetrachloride	6.30	117	15420	6.32	ug/l #	19
49) 1,4-Dioxane	8.47	88	31	5.51	ug/l #	20
56) Ethyl methacrylate	10.20	69	77	3.95	ug/l #	11
58) 2-Chloroethyl Vinyl ether	9.00	63	38	6.41	ug/l #	53
74) N-amyl acetate	12.55	43	43	4.74	ug/l #	30
81) trans-1,4-Dichloro-2-buten	12.84	75	36717	125.15	ug/l #	9
95) Naphthalene	15.82	128	417	2.60	ug/l #	70

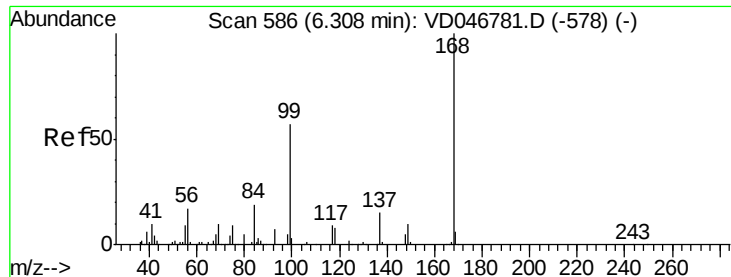
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 6.30 min Scan# 585

Delta R.T. -0.01 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

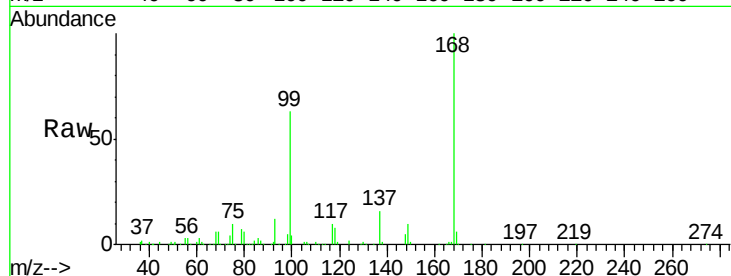
S2-10

Tot Ion:168 Resp: 151388

Ion Ratio Lower Upper

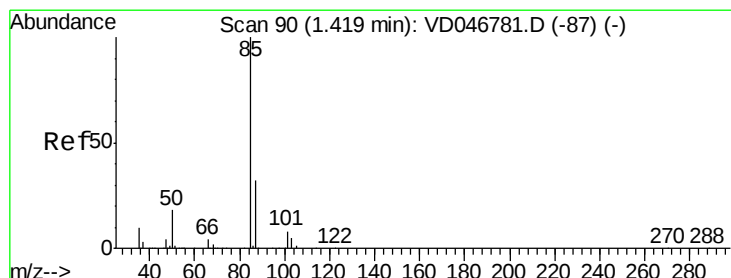
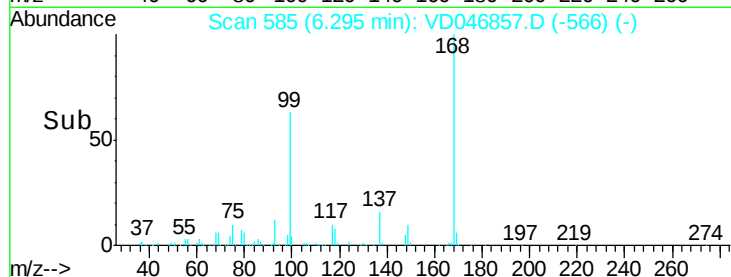
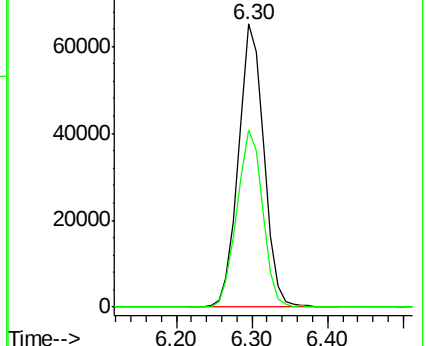
168 100

99 62.7 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: 1.42 min Scan# 90

Delta R.T. -0.00 min

Lab File: VD046857.D

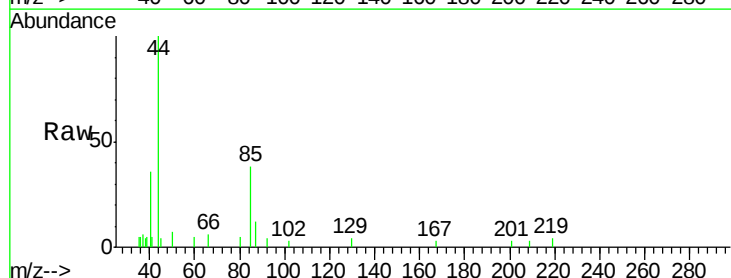
Acq: 23 Sep 2015 16:02

Tgt Ion: 85 Resp: 739

Ion Ratio Lower Upper

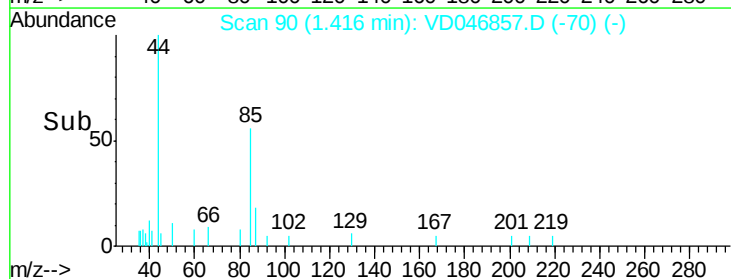
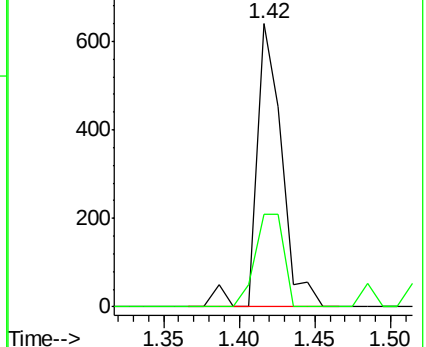
85 100

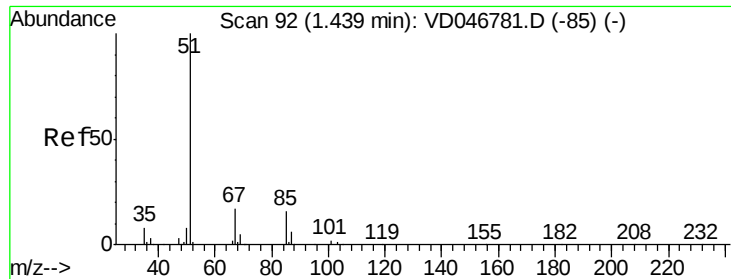
87 32.9 16.2 48.5



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: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

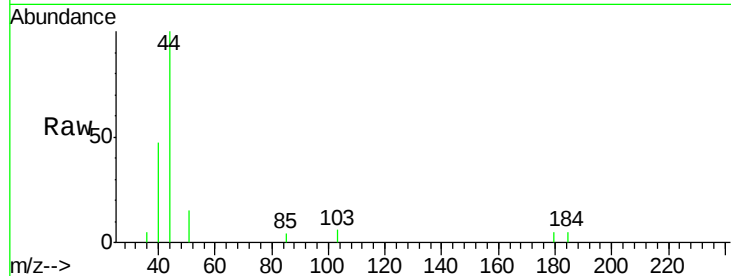
S2-10

Tot Ion: 51 Resp: 272

Ion Ratio Lower Upper

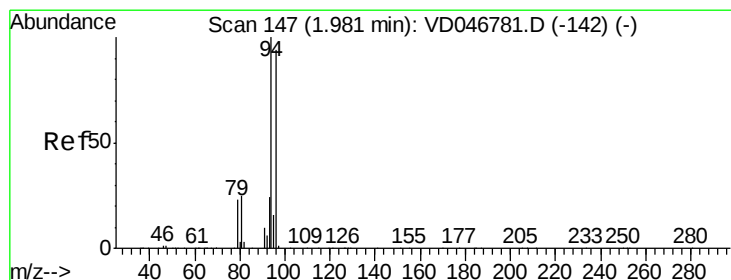
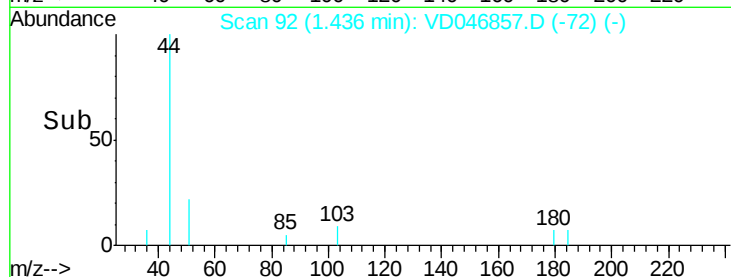
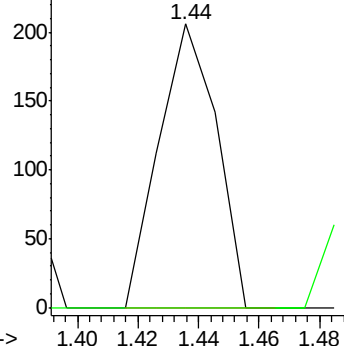
51 100

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: 1.88 min Scan# 137

Delta R.T. -0.10 min

Lab File: VD046857.D

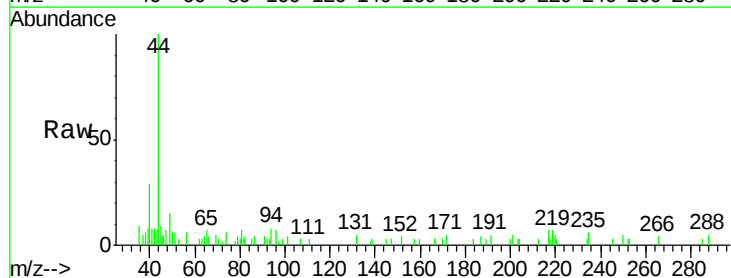
Acq: 23 Sep 2015 16:02

Tgt Ion: 94 Resp: 174

Ion Ratio Lower Upper

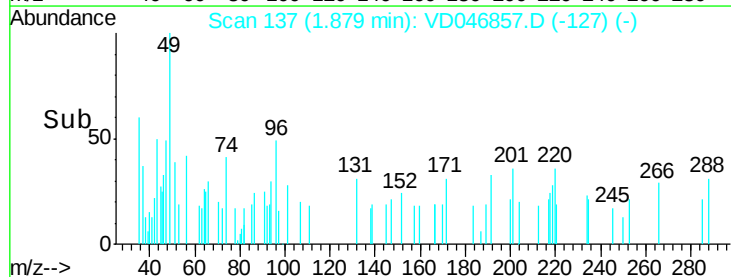
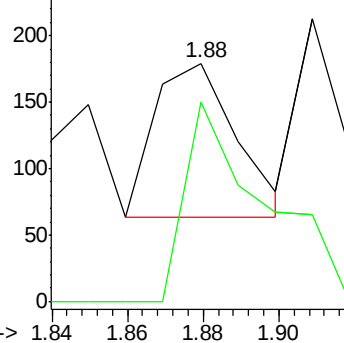
94 100

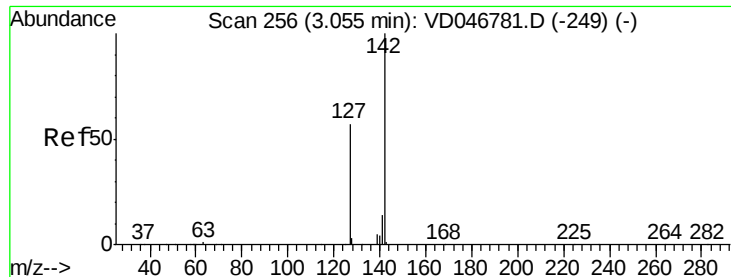
96 83.8 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

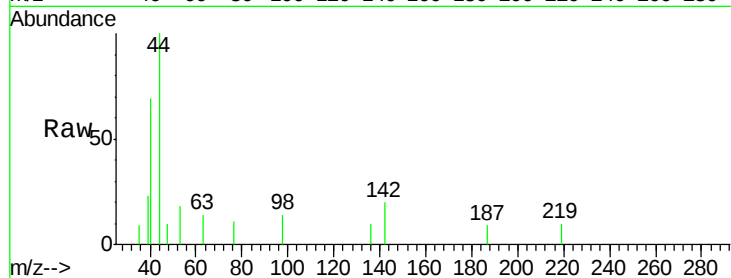




#11
Methvl Iodide
Concen: 1.79 ua/l
RT: 3.04 min Scan# 255
Delta R.T. -0.01 min
Lab File: VD046857.D
Acq: 23 Sep 2015 16:02

Instrument :
MSVOA_D
ClientSampleId :
S2-10

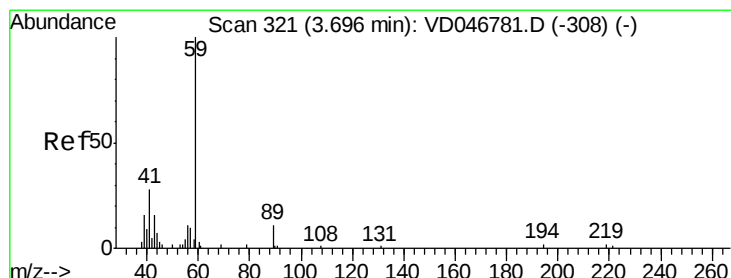
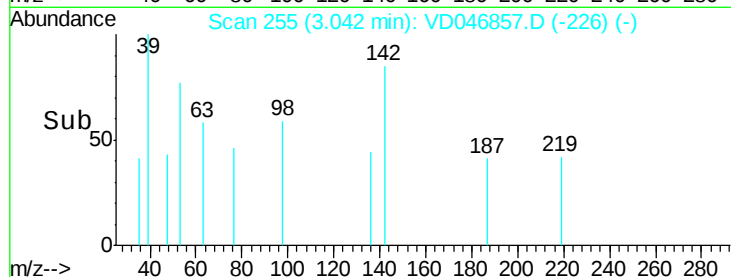
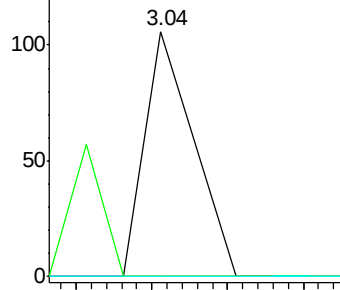
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	41.2	61.8#
141	0.0	11.6	17.4#



Abundance Ion 141.85 (141.55 to 142.55): V

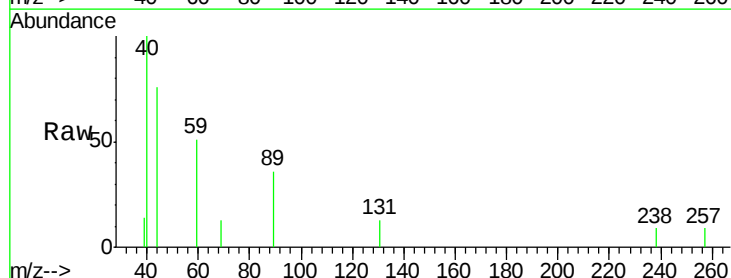
Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



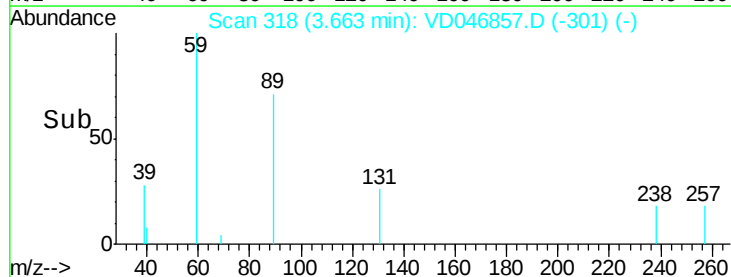
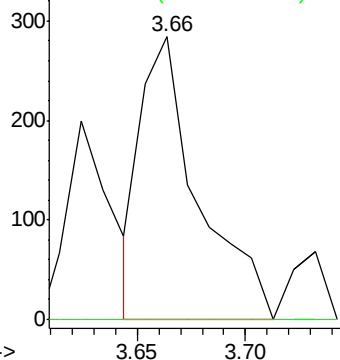
#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.66 min Scan# 318
Delta R.T. -0.03 min
Lab File: VD046857.D
Acq: 23 Sep 2015 16:02

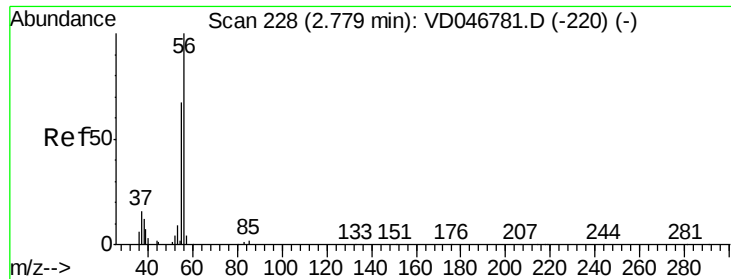
Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.6#



Abundance Ion 58.95 (58.65 to 59.65): V

Ion 56.95 (56.65 to 57.65): V





#14

Acrolein

Concen: 1.19 ug/l

RT: 2.64 min Scan# 214

Delta R.T. -0.14 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

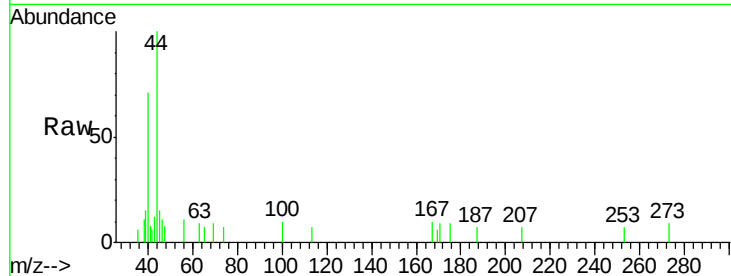
S2-10

Tot Ion: 56 Resp: 96

Ion Ratio Lower Upper

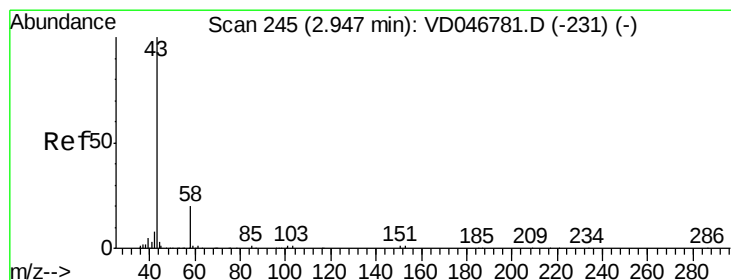
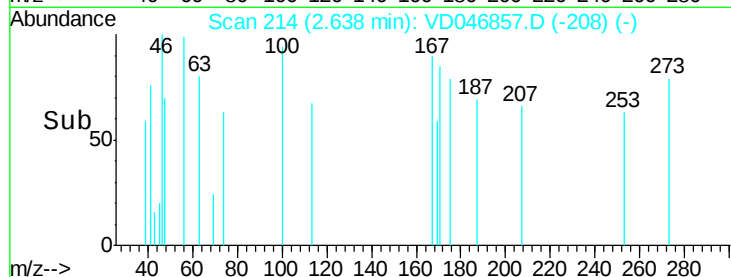
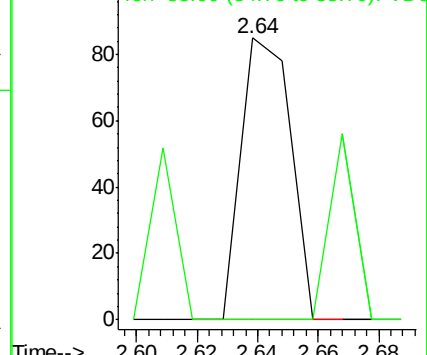
56 100

55 0.0 62.6 93.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#17

Acetone

Concen: 2.85 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.00 min

Lab File: VD046857.D

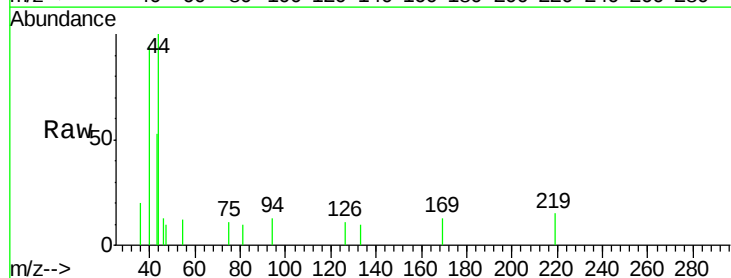
Acq: 23 Sep 2015 16:02

Tgt Ion: 43 Resp: 758

Ion Ratio Lower Upper

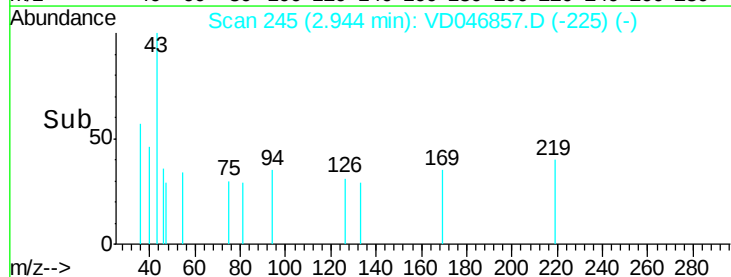
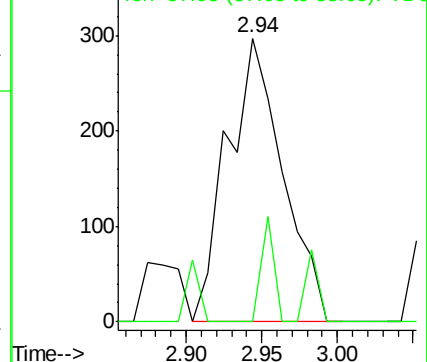
43 100

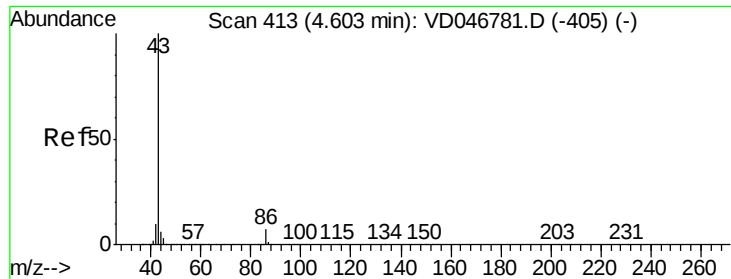
58 0.0 16.6 24.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#24

Vinyl Acetate

Concen: 15.03 ug/l

RT: 4.60 min Scan# 413

Delta R.T. -0.00 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

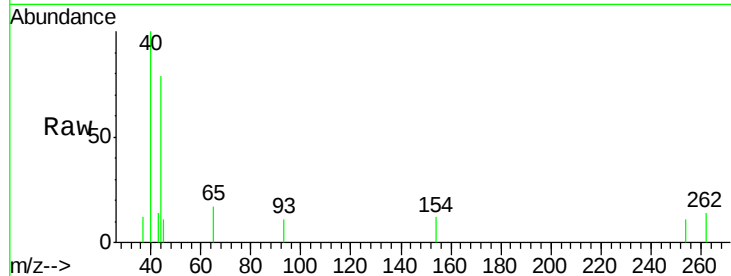
S2-10

Tot Ion: 43 Resp: 38

Ion Ratio Lower Upper

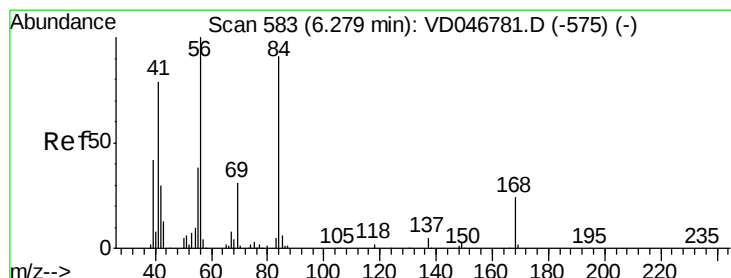
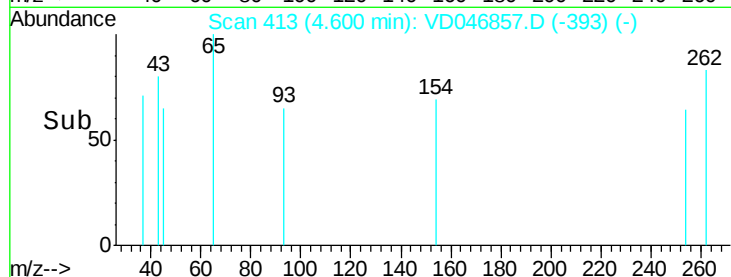
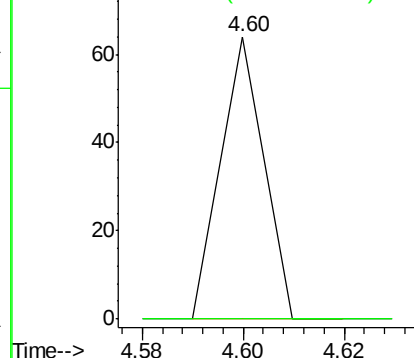
43 100

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: 1.85 ug/l

RT: 6.29 min Scan# 584

Delta R.T. 0.01 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

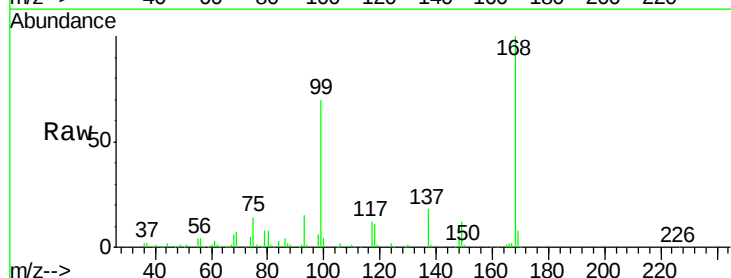
Tgt Ion: 56 Resp: 4379

Ion Ratio Lower Upper

56 100

69 169.4 23.4 35.0#

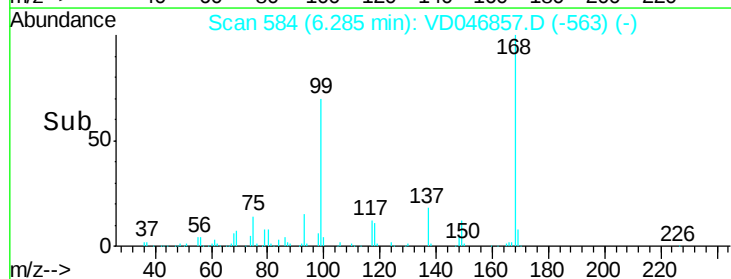
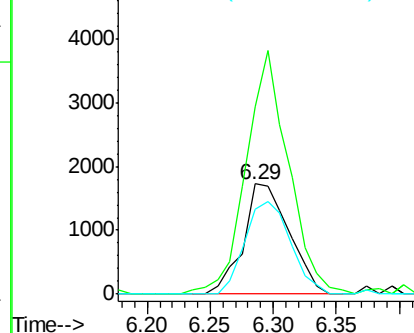
84 77.4 63.8 95.8

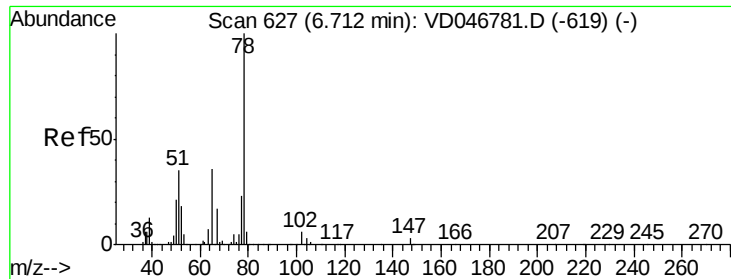


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

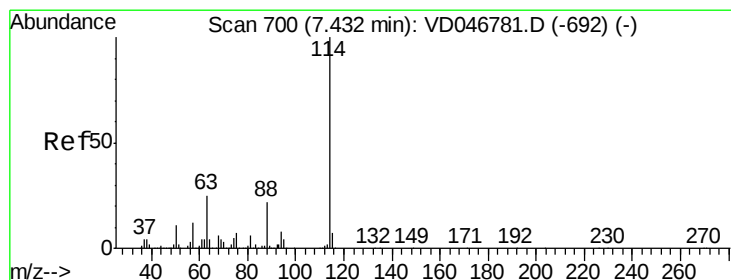
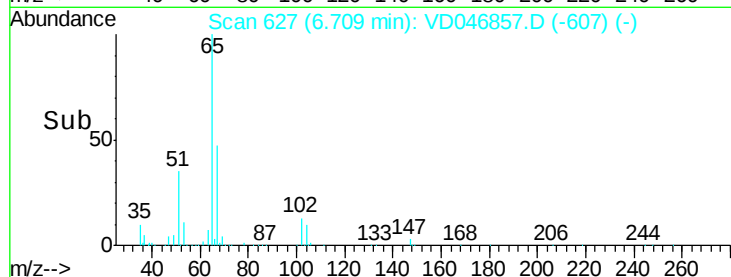
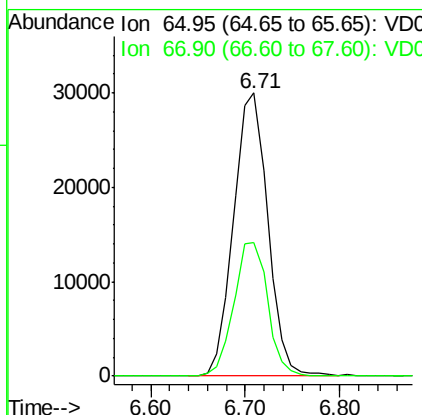
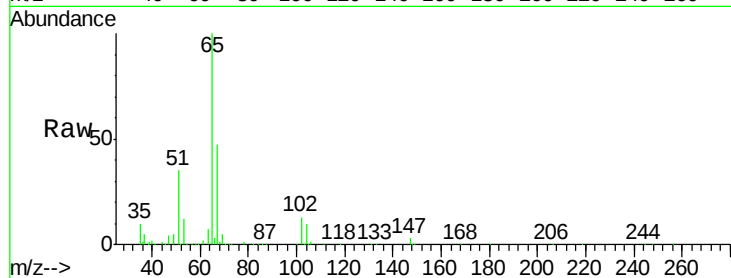




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.71 min Scan# 627
 Delta R.T. -0.00 min
 Lab File: VD046857.D
 Acq: 23 Sep 2015 16:02

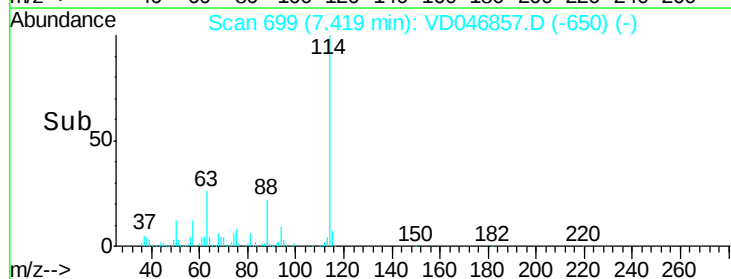
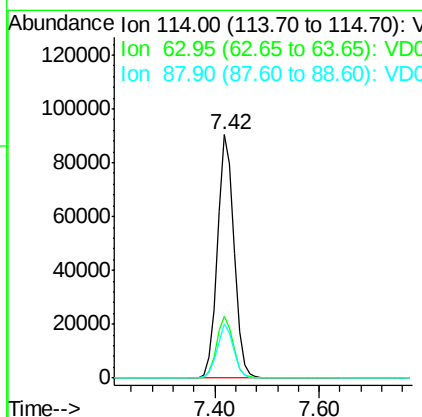
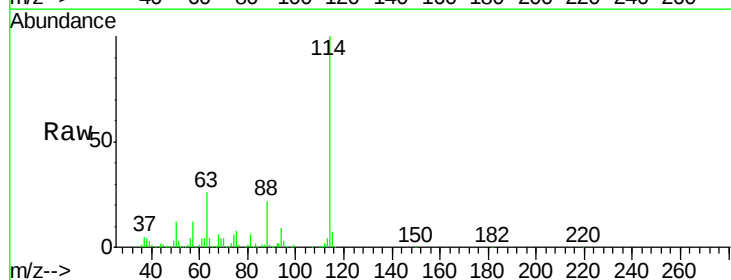
Instrument :
 MSVOA_D
 ClientSampled :
 S2-10

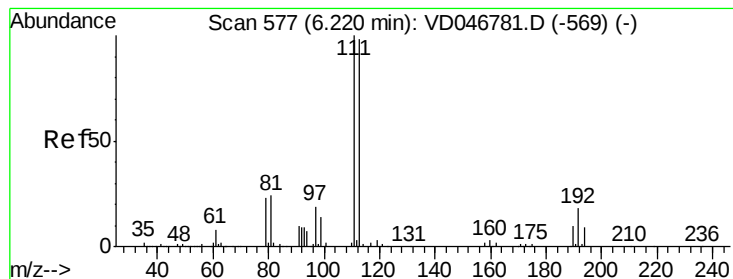
Tot Ion: 65 Resp: 75114
 Ion Ratio Lower Upper
 65 100
 67 47.0 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 699
 Delta R.T. -0.01 min
 Lab File: VD046857.D
 Acq: 23 Sep 2015 16:02

Tgt Ion: 114 Resp: 200961
 Ion Ratio Lower Upper
 114 100
 63 25.5 0.0 49.8
 88 22.1 0.0 43.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.20 min Scan# 575

Delta R.T. -0.02 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

S2-10

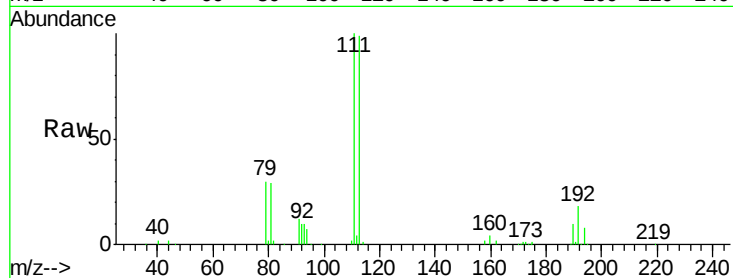
Tot Ion:113 Resp: 73627

Ion Ratio Lower Upper

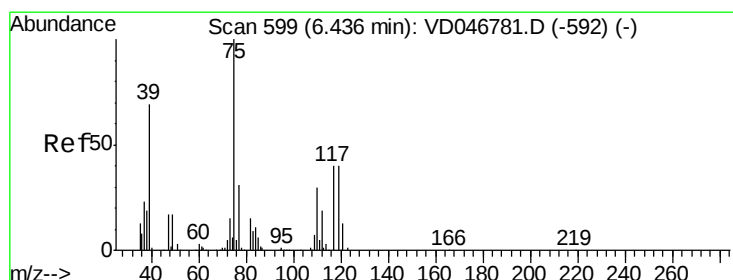
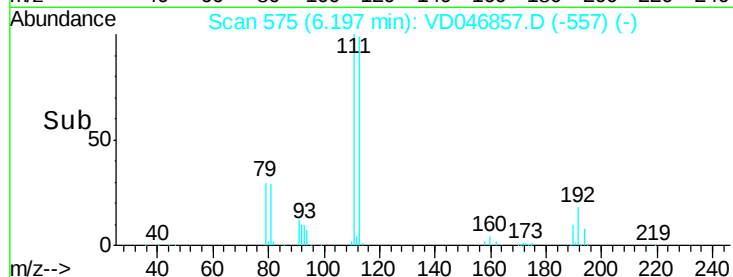
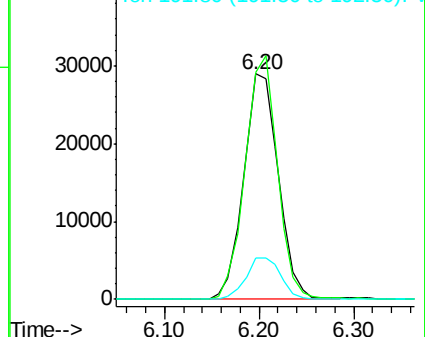
113 100

111 100.9 79.4 119.0

192 18.5 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: 6.43 ug/l

RT: 6.30 min Scan# 585

Delta R.T. -0.14 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

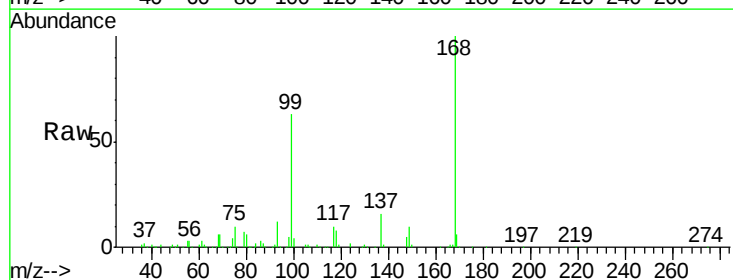
Tgt Ion: 75 Resp: 15098

Ion Ratio Lower Upper

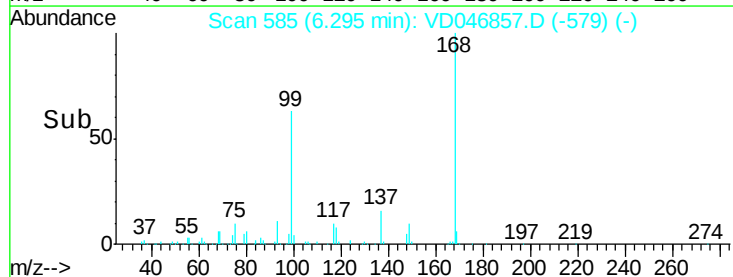
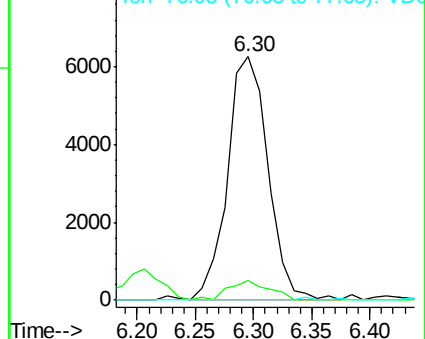
75 100

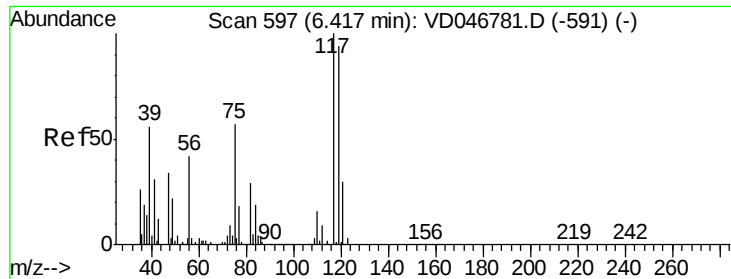
110 7.8 13.7 41.0#

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: 6.32 ug/l

RT: 6.30 min Scan# 585

Delta R.T. -0.12 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

S2-10

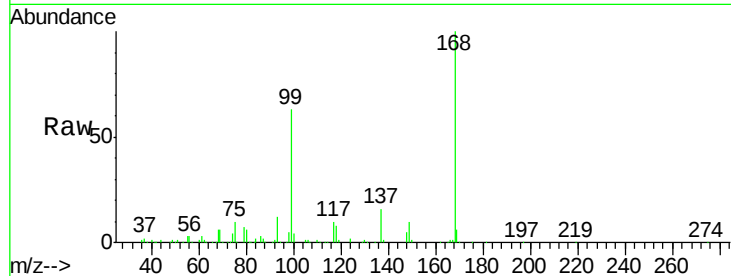
Tot Ion:117 Resp: 15420

Ion Ratio Lower Upper

117 100

119 8.0 76.2 114.4#

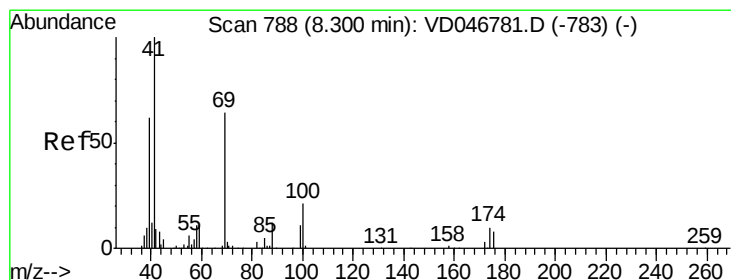
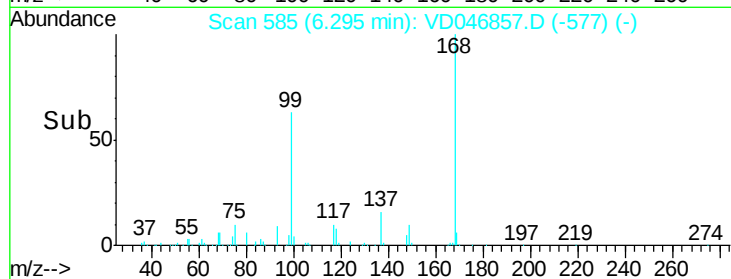
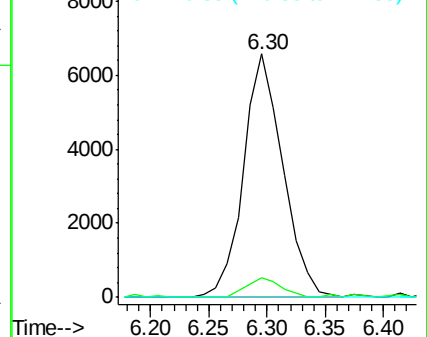
121 0.0 24.5 36.7#



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: 5.51 ug/l

RT: 8.47 min Scan# 806

Delta R.T. 0.17 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

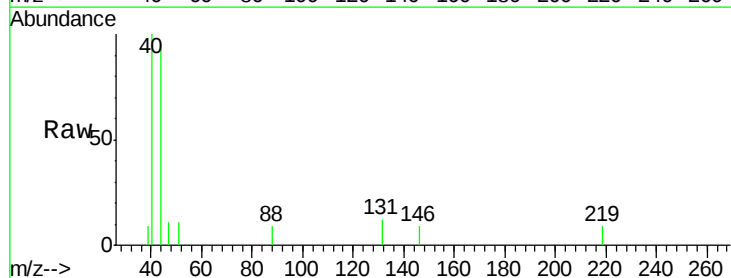
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

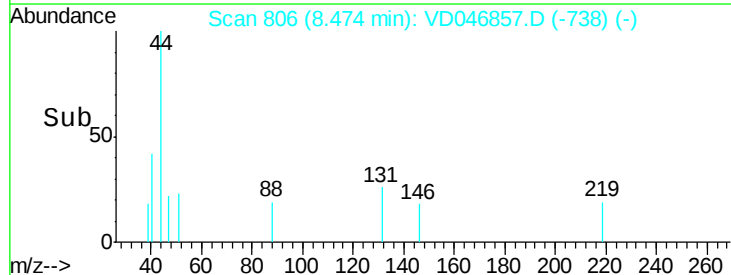
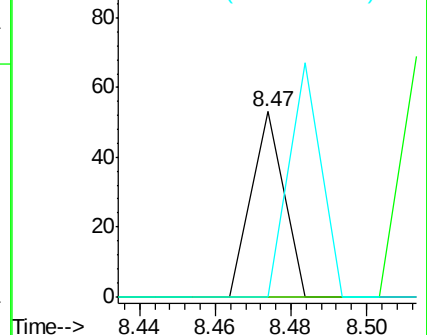
58 0.0 48.3 72.5#

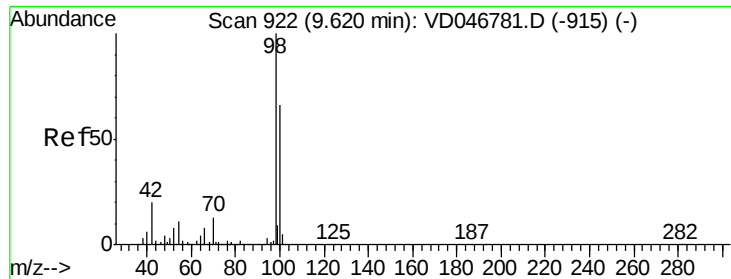


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 5.51 ug/l

RT: 9.61 min Scan# 921

Delta R.T. -0.01 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

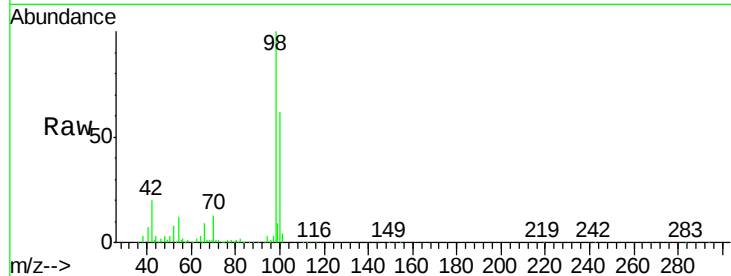
S2-10

Tot Ion: 98 Resp: 189671

Ion Ratio Lower Upper

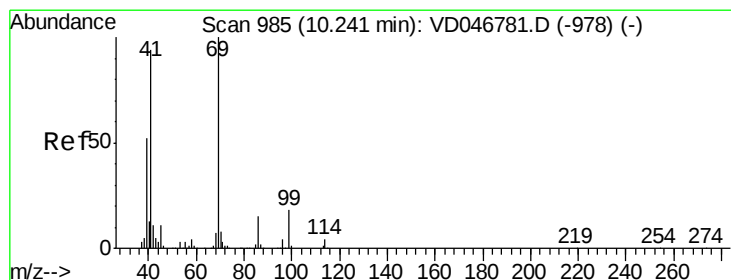
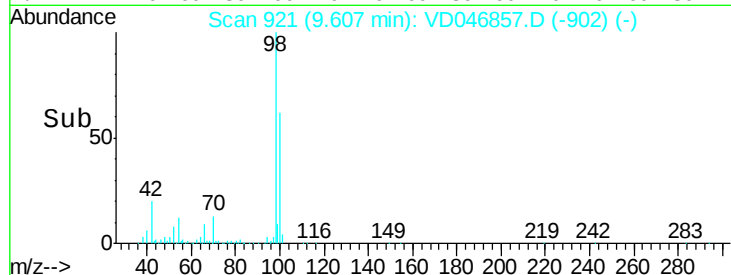
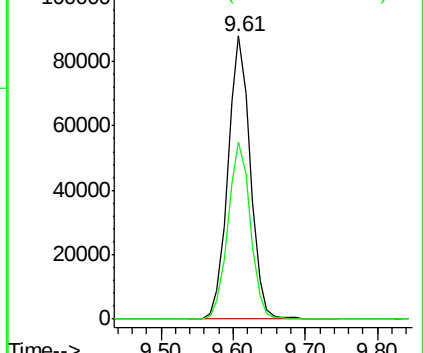
98 100

100 62.5 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#56

Ethyl methacrylate

Concen: 3.95 ug/l

RT: 10.20 min Scan# 981

Delta R.T. -0.04 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

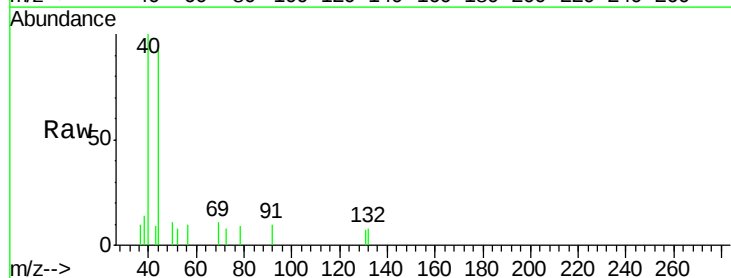
Tgt Ion: 69 Resp: 77

Ion Ratio Lower Upper

69 100

41 0.0 75.4 113.0#

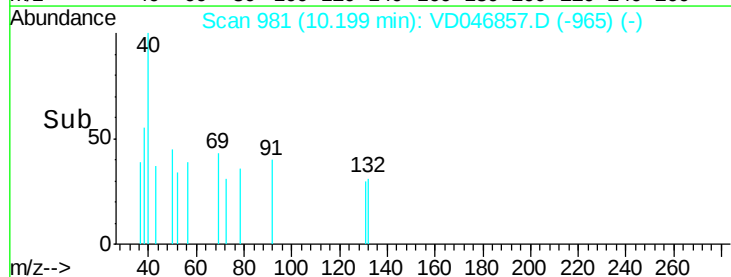
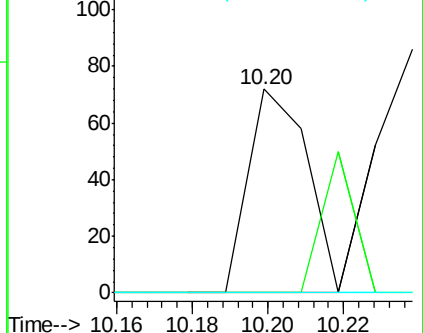
39 0.0 41.0 61.4#

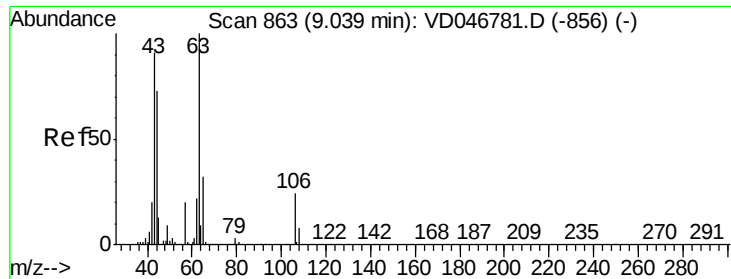


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

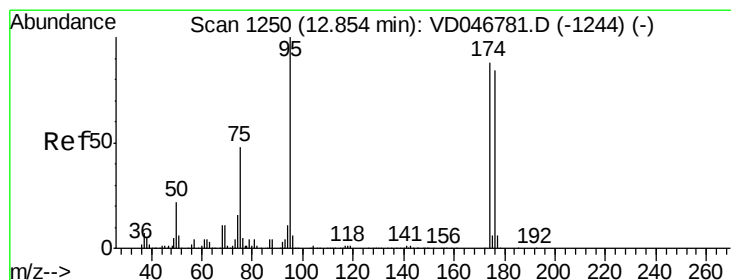
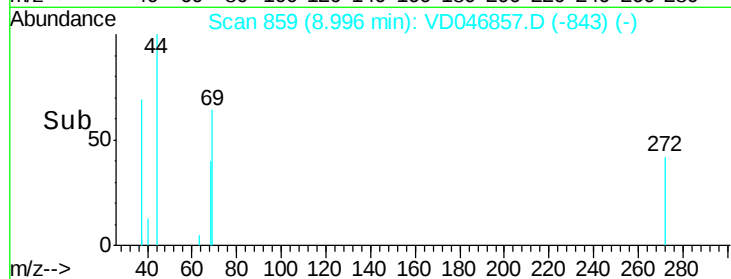
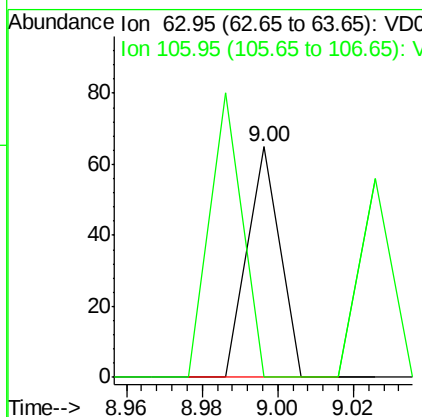
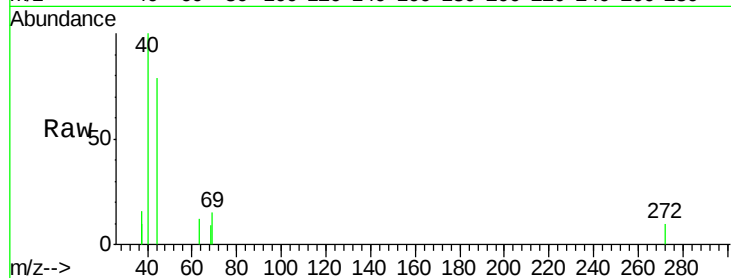




#58
 2-Chloroethyl Vinyl ether
 Concen: 6.41 ug/l
 RT: 9.00 min Scan# 859
 Delta R.T. -0.04 min
 Lab File: VD046857.D
 Acq: 23 Sep 2015 16:02

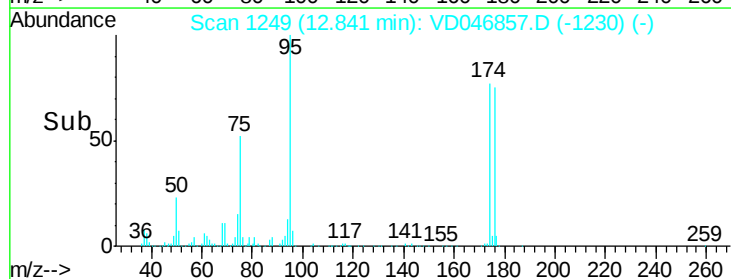
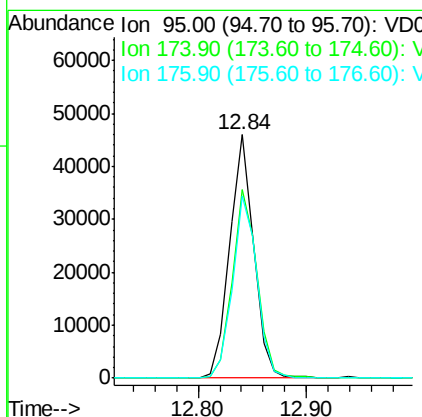
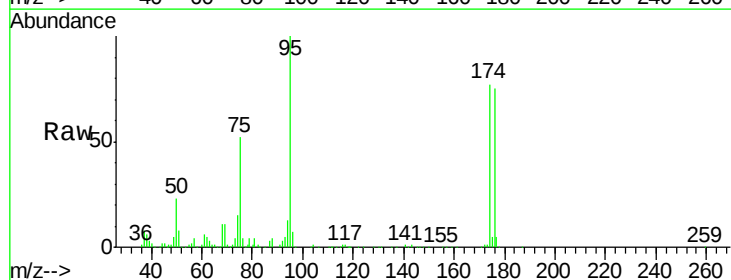
Instrument :
 MSVOA_D
 ClientSampleId :
 S2-10

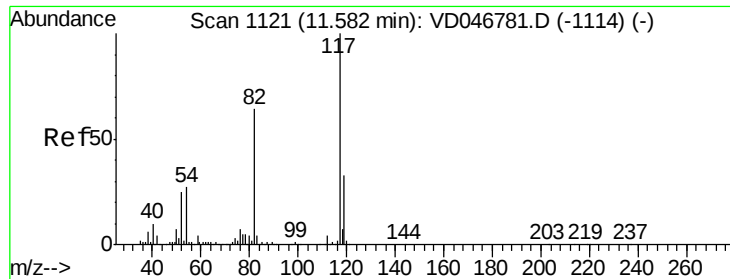
Tot Ion: 63 Resp: 38
 Ion Ratio Lower Upper
 63 100
 106 0.0 17.8 26.8#



#62
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.84 min Scan# 1249
 Delta R.T. -0.01 min
 Lab File: VD046857.D
 Acq: 23 Sep 2015 16:02

Tgt Ion: 95 Resp: 71530
 Ion Ratio Lower Upper
 95 100
 174 77.3 0.0 149.8
 176 74.9 0.0 143.4

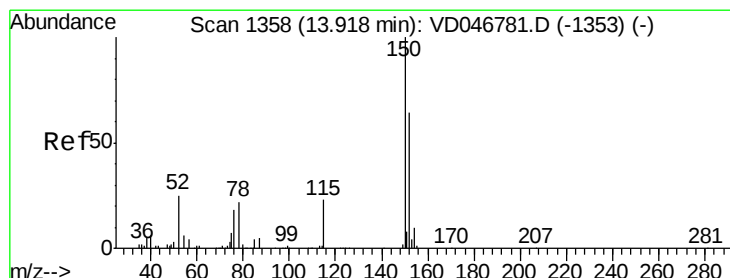
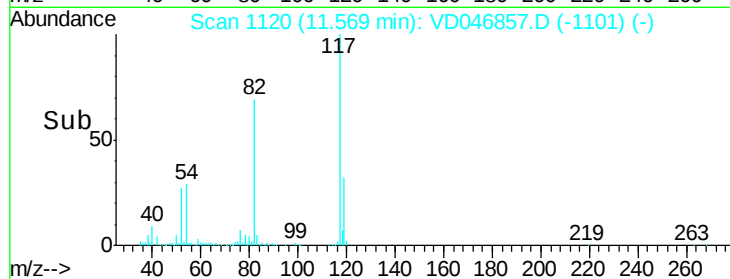
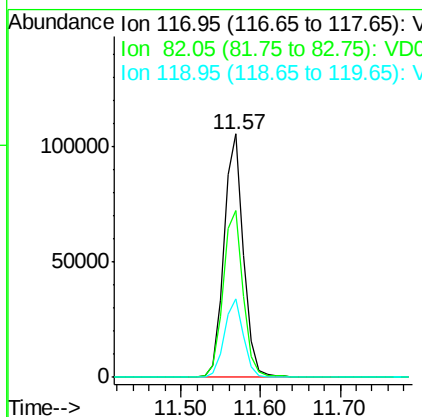
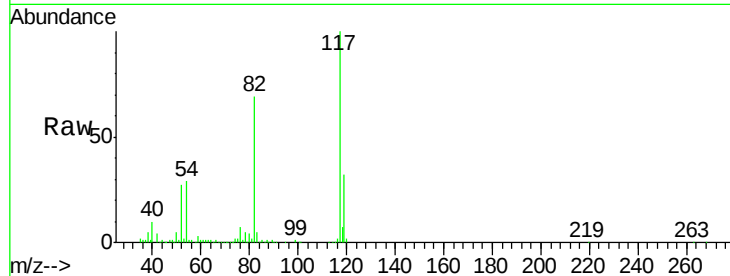




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. -0.01 min
Lab File: VD046857.D
Acq: 23 Sep 2015 16:02

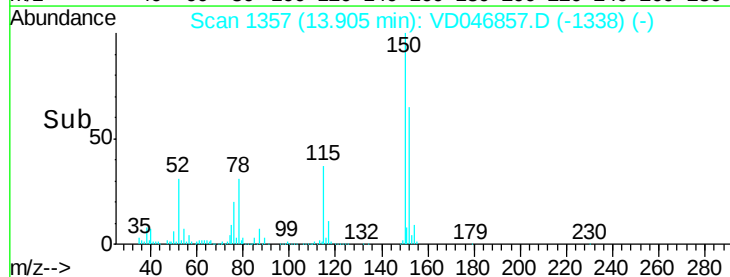
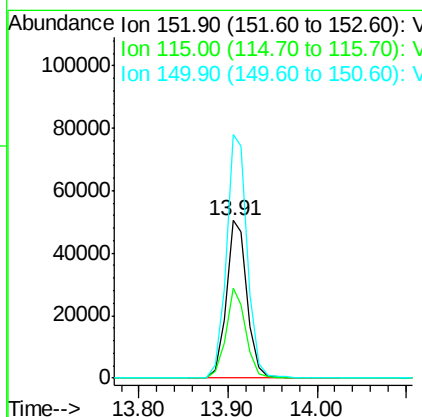
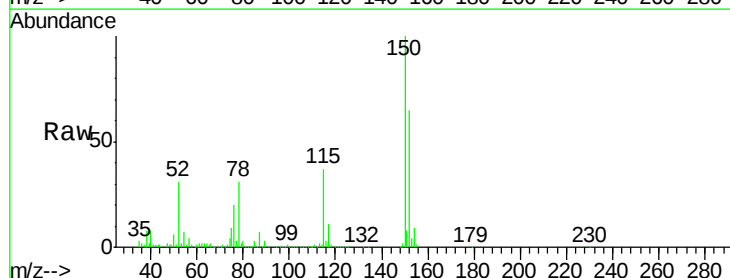
Instrument :
MSVOA_D
ClientSampleId :
S2-10

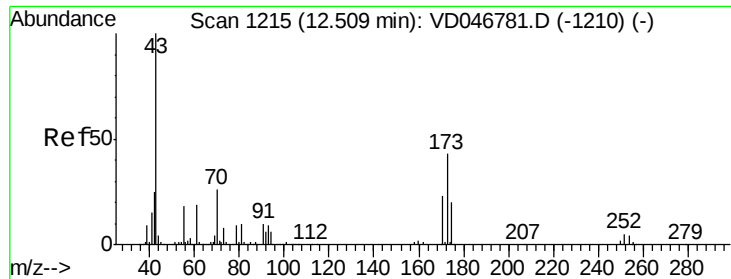
Tot Ion	Ratio	Lower	Upper
117	100		
82	68.6	50.6	75.8
119	32.2	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.91 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VD046857.D
Acq: 23 Sep 2015 16:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.4	26.2	78.6
150	154.7	0.0	311.8





#74

N-amvl acetate

Concen: 4.74 ug/l

RT: 12.55 min Scan# 1220

Delta R.T. 0.05 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

S2-10

Tot Ion: 43 Resp: 43

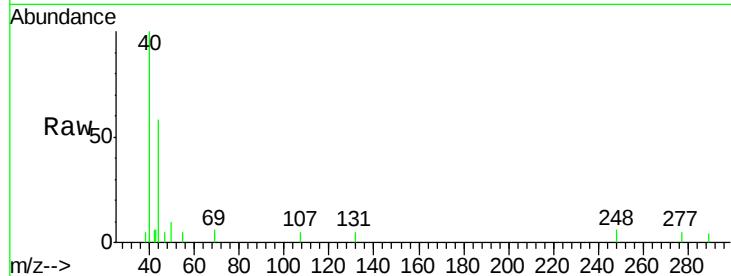
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 73.6 14.5 21.7#

61 0.0 14.6 21.8#

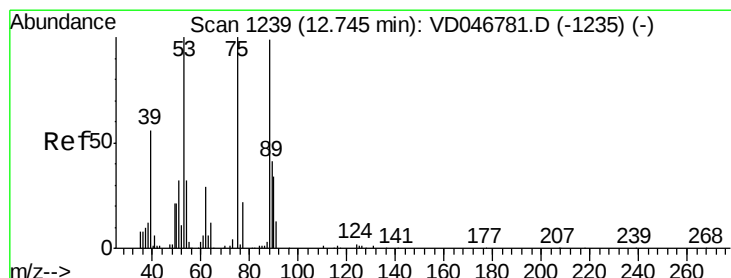
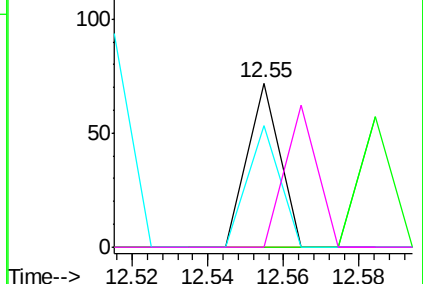
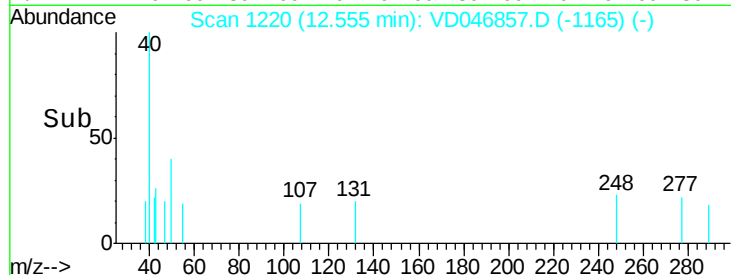


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 125.15 ug/l

RT: 12.84 min Scan# 1249

Delta R.T. 0.10 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

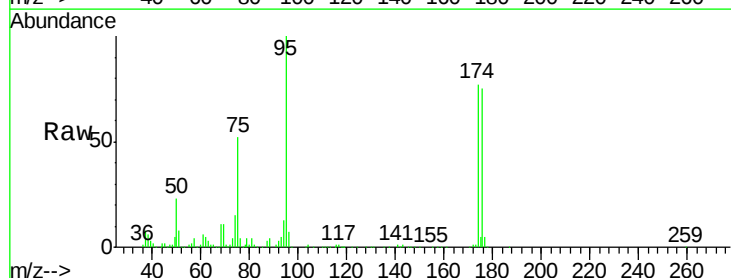
Tgt Ion: 75 Resp: 36717

Ion Ratio Lower Upper

75 100

53 0.5 82.3 123.5#

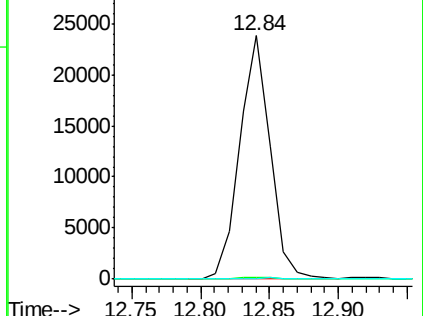
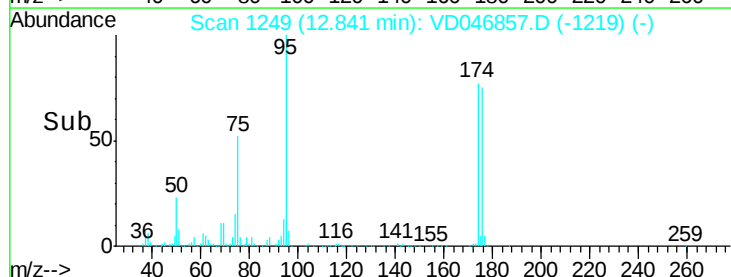
89 0.0 36.6 54.8#

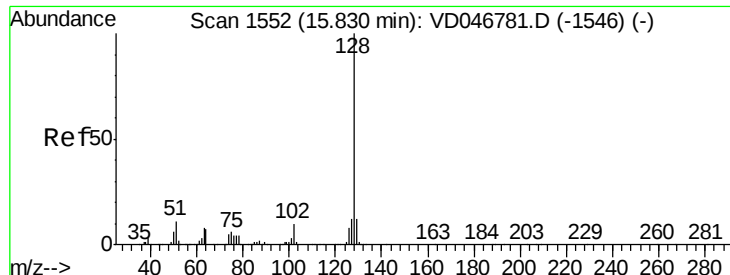


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 2.60 ug/l

RT: 15.82 min Scan# 1551

Delta R.T. -0.01 min

Lab File: VD046857.D

Acq: 23 Sep 2015 16:02

Instrument :

MSVOA_D

ClientSampleId :

S2-10

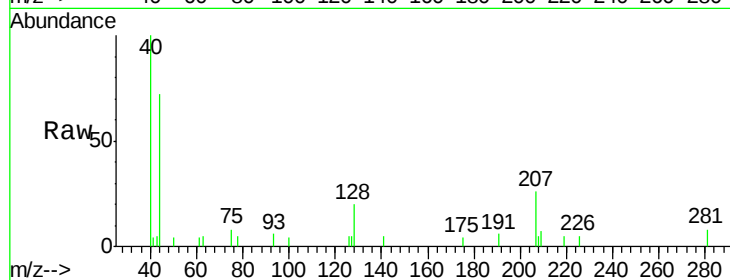
Tot Ion:128 Resp: 417

Ion Ratio Lower Upper

128 100

127 24.8 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

