

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046810.D
 Acq On : 21 Sep 2015 16:37
 Operator : FY/SY
 Sample : G3761-01
 Misc : 5.00µm/5mL/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-PILE

Quant Time: Sep 22 01:04:27 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	200452	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.41	114	272889	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.56	117	253369	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.91	152	126598	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.70	65	91056	43.69	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	87.38%	
35) Dibromofluoromethane	6.19	113	94641	44.33	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	88.66%	
50) Toluene-d8	9.60	98	277212	41.16	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	82.32%	
62) 4-Bromofluorobenzene	12.83	95	115177	42.47	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	84.94%	

Target Compounds

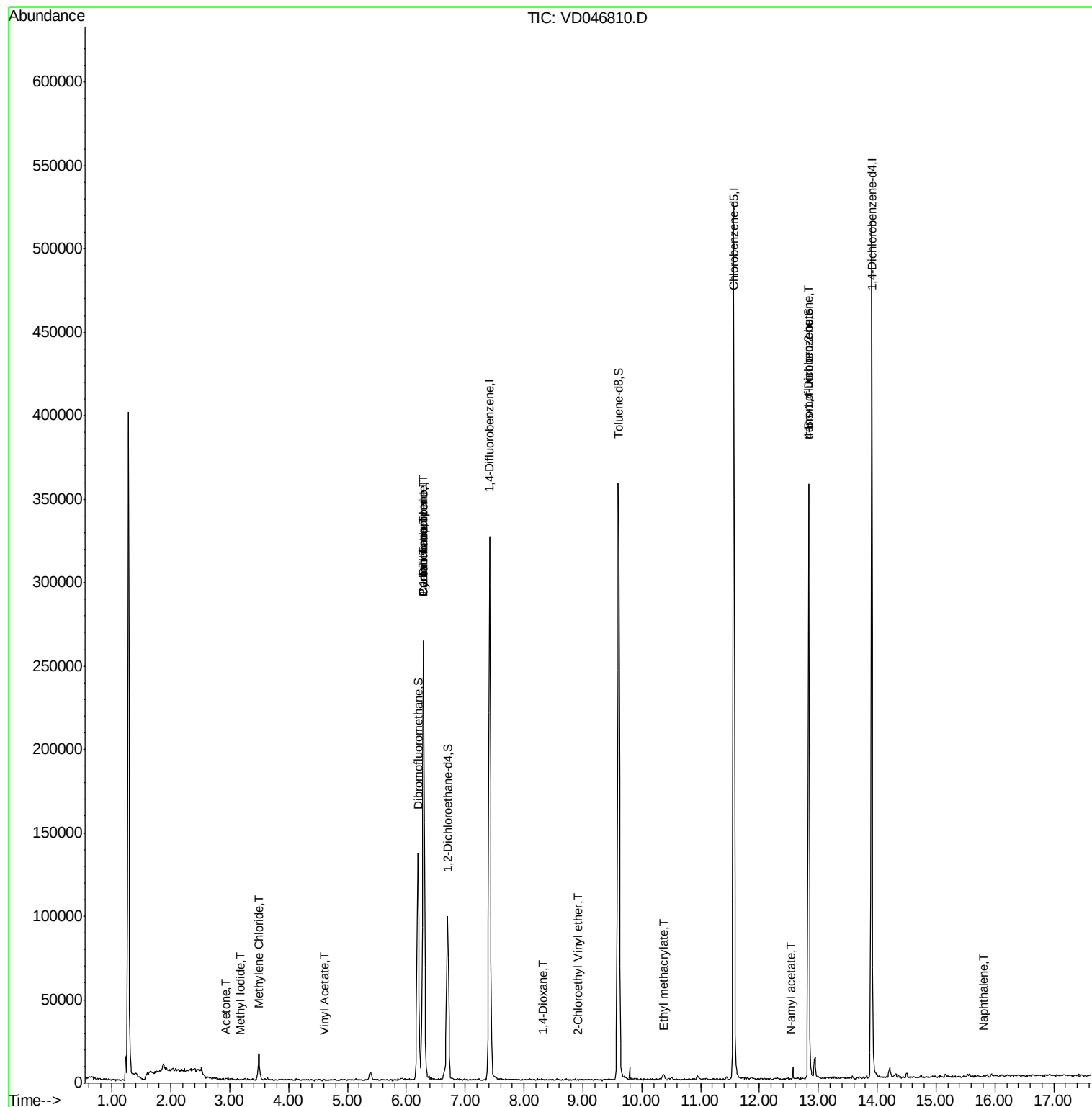
						Qvalue
2) Dichlorodifluoromethane	1.42	85	1062	Below Cal		94
3) Chlorodifluoromethane	1.44	51	261	Below Cal	#	52
6) Bromomethane	2.00	94	454	Below Cal	#	2
11) Methyl Iodide	3.19	142	53	1.76	ug/l #	35
12) Tert butyl alcohol	3.65	59	752	Below Cal	#	74
17) Acetone	2.94	43	389	1.10	ug/l #	56
21) Methylene Chloride	3.49	84	7459	3.90	ug/l	88
24) Vinyl Acetate	4.61	43	88	15.06	ug/l #	82
31) Cyclohexane	6.30	56	5129	1.64	ug/l #	19
36) 1,1-Dichloropropene	6.29	75	18831	5.90	ug/l #	54
38) Carbon Tetrachloride	6.29	117	19573	5.91	ug/l #	16
49) 1,4-Dioxane	8.32	88	40	5.24	ug/l #	23
56) Ethyl methacrylate	10.36	69	164	3.99	ug/l	89
58) 2-Chloroethyl Vinyl ether	8.91	63	41	6.39	ug/l #	53
74) N-amyl acetate	12.53	43	92	4.75	ug/l #	54
81) trans-1,4-Dichloro-2-buten	12.83	75	57576	129.33	ug/l #	9
95) Naphthalene	15.82	128	338	2.50	ug/l #	70

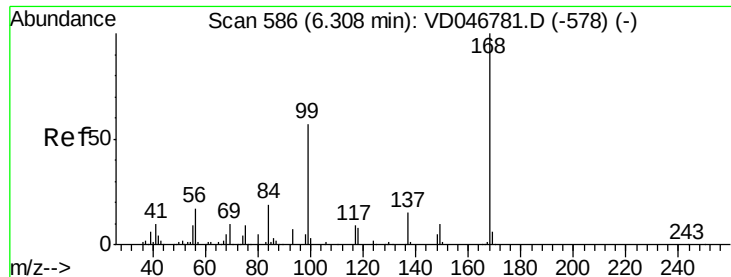
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.29 min Scan# 584

Delta R.T. -0.02 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

Instrument :

MSVOA_D

ClientSampleId :

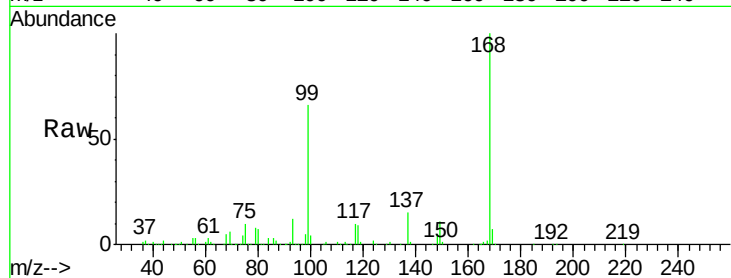
SOIL-PILE

Tot Ion:168 Resp: 200452

Ion Ratio Lower Upper

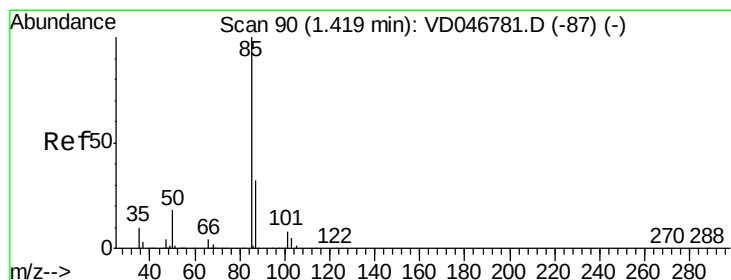
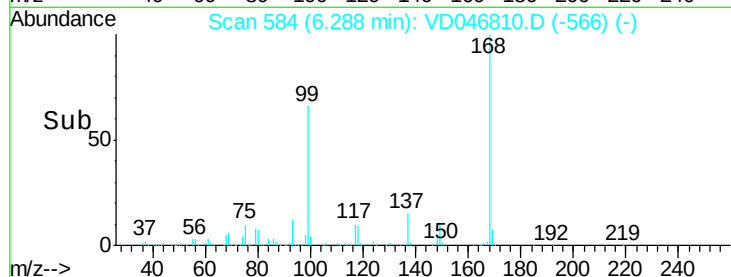
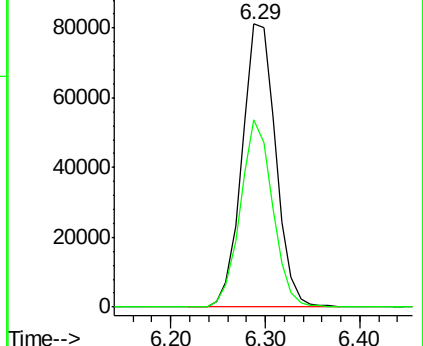
168 100

99 66.1 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: VD046810.D

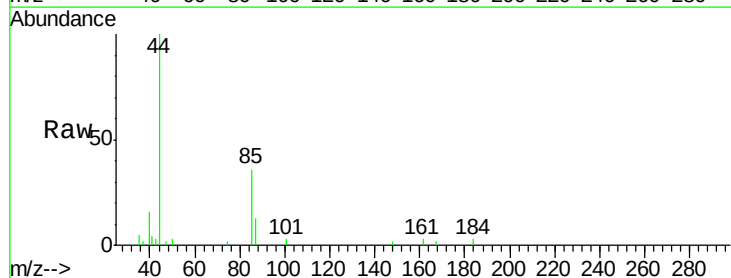
Acq: 21 Sep 2015 16:37

Tgt Ion: 85 Resp: 1062

Ion Ratio Lower Upper

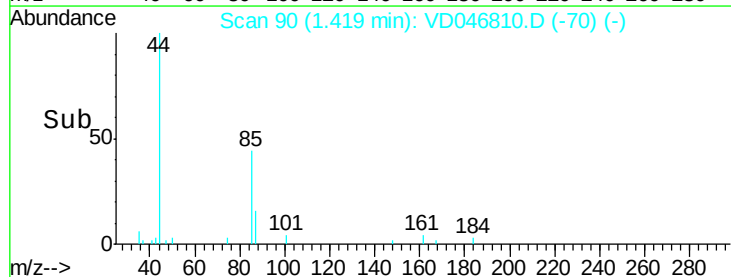
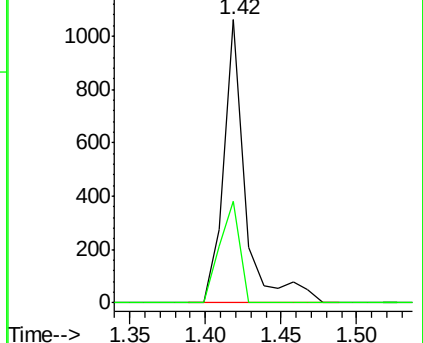
85 100

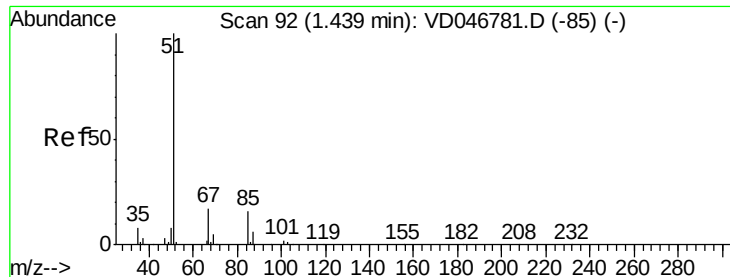
87 35.8 16.2 48.5



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: VD046810.D

Acq: 21 Sep 2015 16:37

Instrument :

MSVOA_D

ClientSampleId :

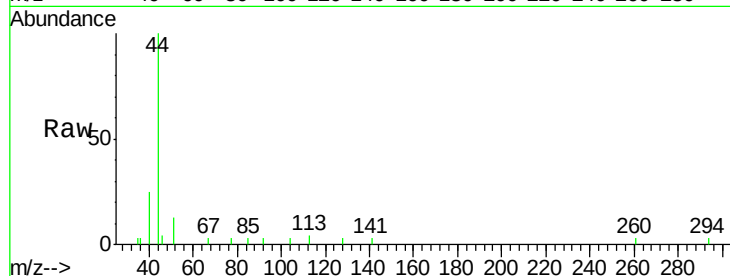
SOIL-PILE

Tot Ion: 51 Resp: 261

Ion Ratio Lower Upper

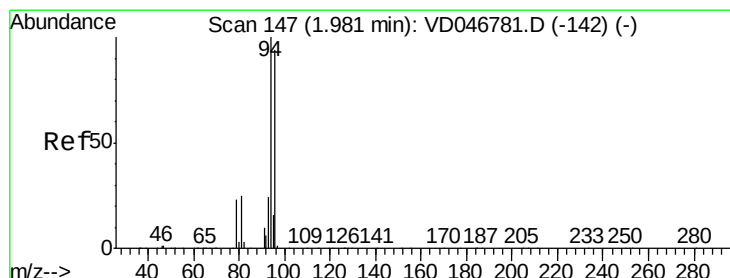
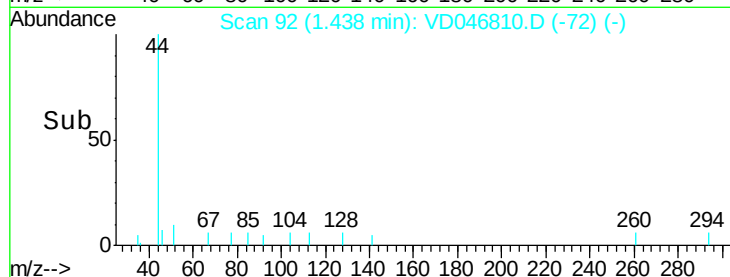
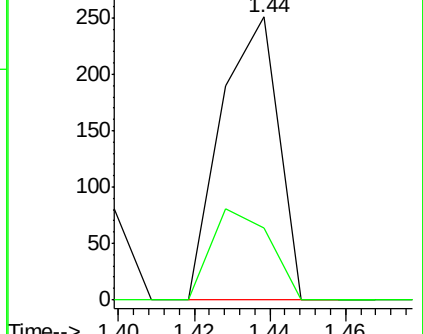
51 100

67 33.0 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: 2.00 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD046810.D

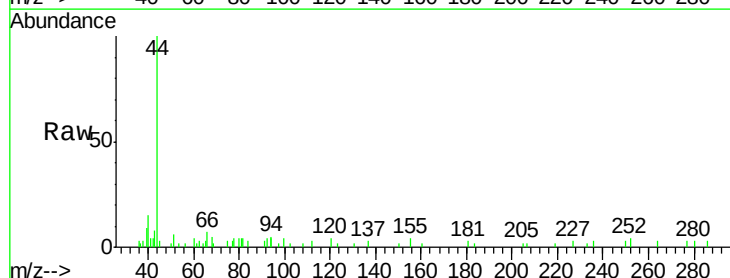
Acq: 21 Sep 2015 16:37

Tgt Ion: 94 Resp: 454

Ion Ratio Lower Upper

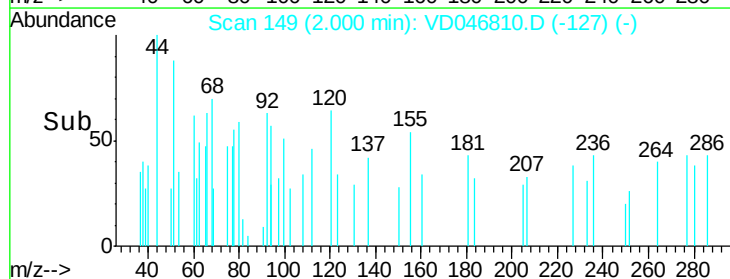
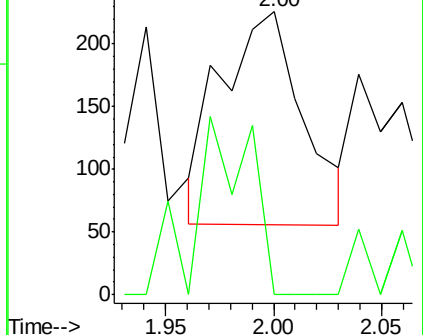
94 100

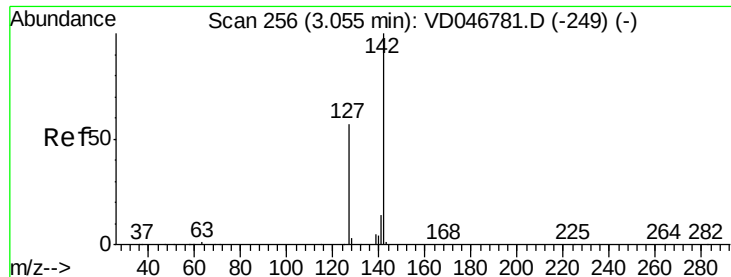
96 0.0 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

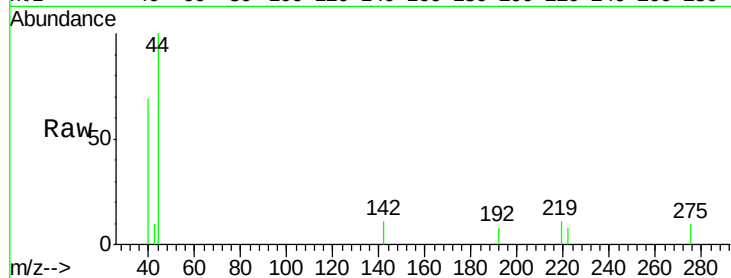




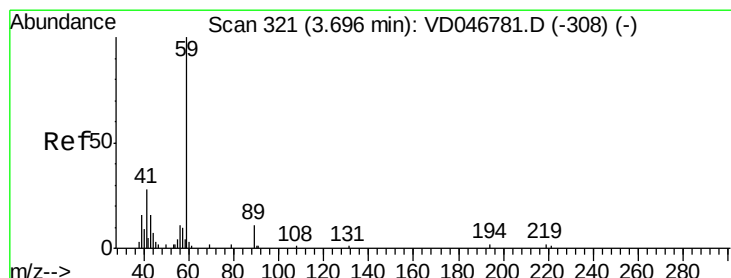
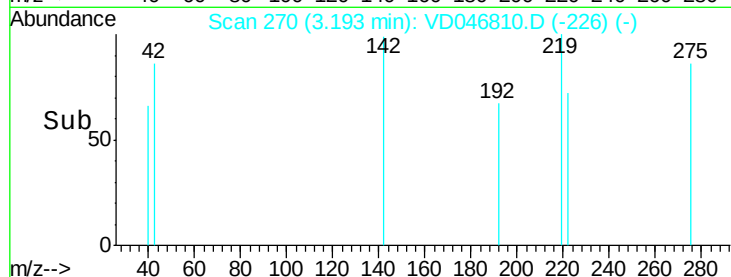
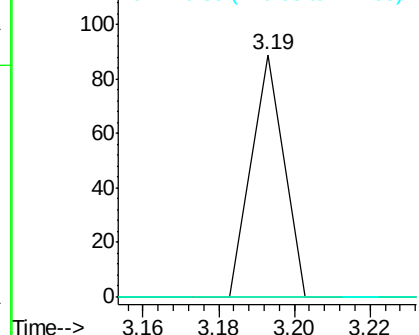
#11
Methyl Iodide
Concen: 1.76 ug/l
RT: 3.19 min Scan# 270
Delta R.T. 0.14 min
Lab File: VD046810.D
Acq: 21 Sep 2015 16:37

Instrument :
MSVOA_D
ClientSampleId :
SOIL-PILE

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

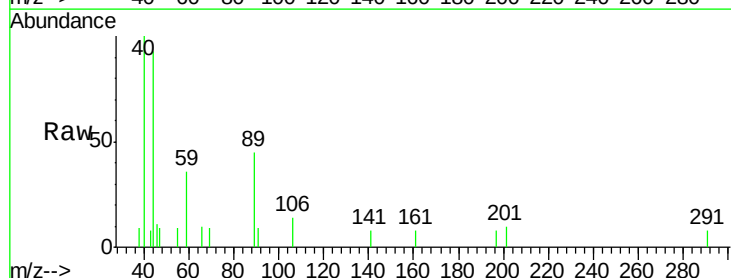


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

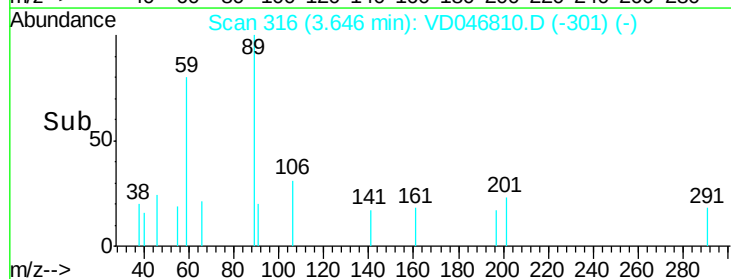
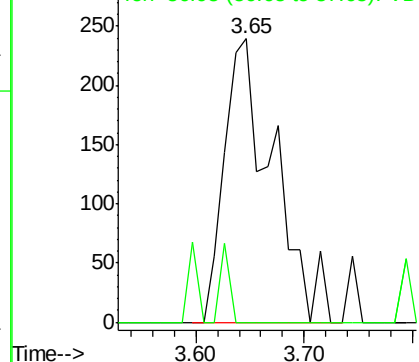


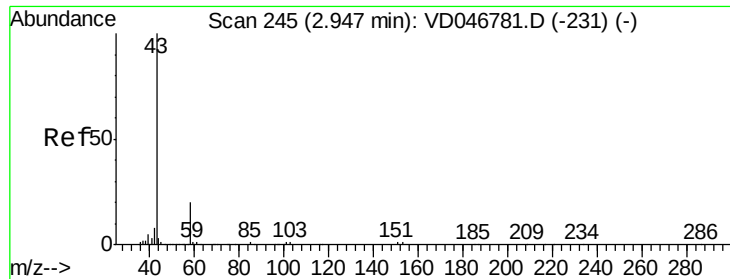
#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.65 min Scan# 316
Delta R.T. -0.05 min
Lab File: VD046810.D
Acq: 21 Sep 2015 16:37

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





#17

Acetone

Concen: 1.10 ug/l

RT: 2.94 min Scan# 244

Delta R.T. -0.01 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

Instrument :

MSVOA_D

ClientSampleId :

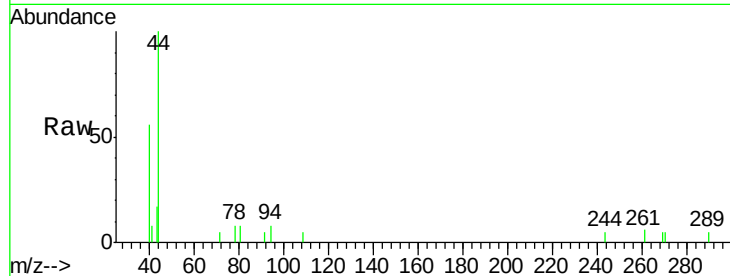
SOIL-PILE

Tot Ion: 43 Resp: 389

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

2.94

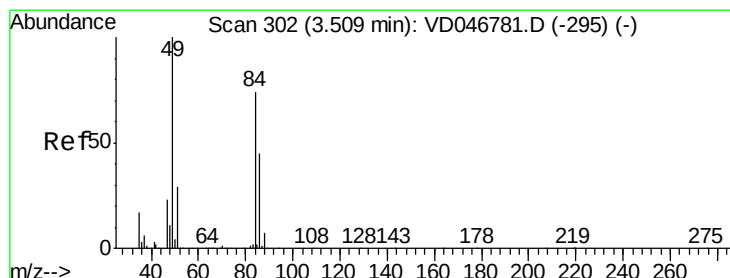
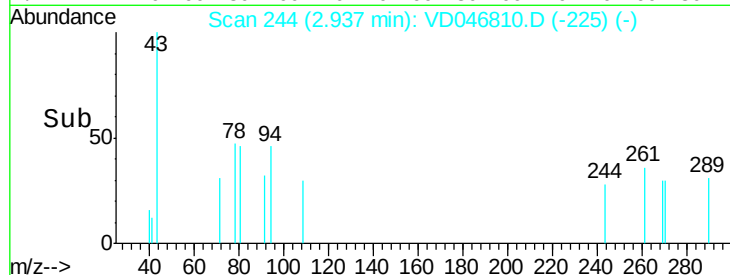
150

100

50

0

Time--> 2.85 2.90 2.95 3.00



#21

Methylene Chloride

Concen: 3.90 ug/l

RT: 3.49 min Scan# 300

Delta R.T. -0.02 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

Tgt Ion: 84 Resp: 7459

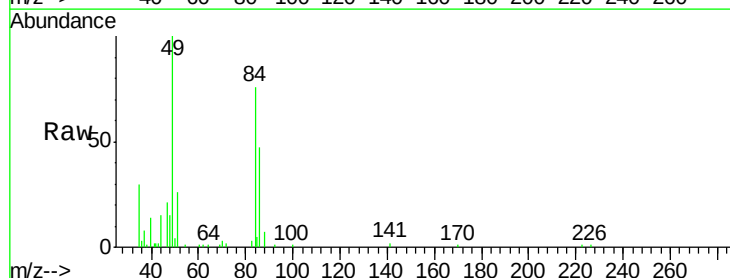
Ion Ratio Lower Upper

84 100

49 131.9 122.1 183.1

51 34.9 33.6 50.4

86 61.5 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

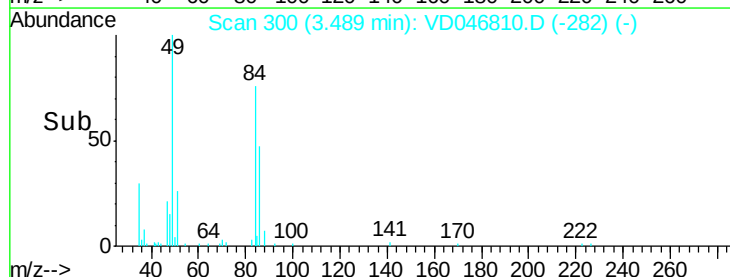
6000

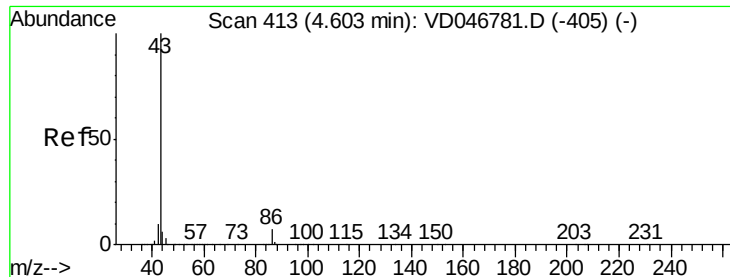
4000

2000

0

Time--> 3.40 3.50 3.60





#24

Vinyl Acetate

Concen: 15.06 ug/l

RT: 4.61 min Scan# 414

Delta R.T. 0.01 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

Instrument :

MSVOA_D

ClientSampleId :

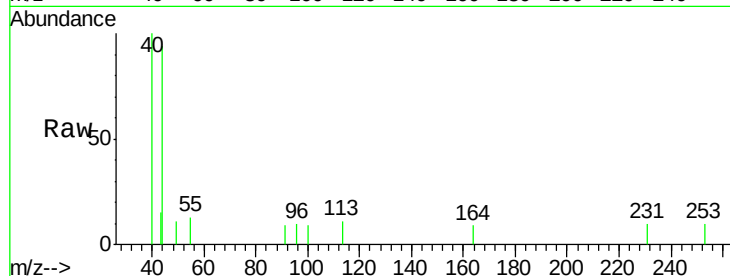
SOIL-PILE

Tot Ion: 43 Resp: 88

Ion Ratio Lower Upper

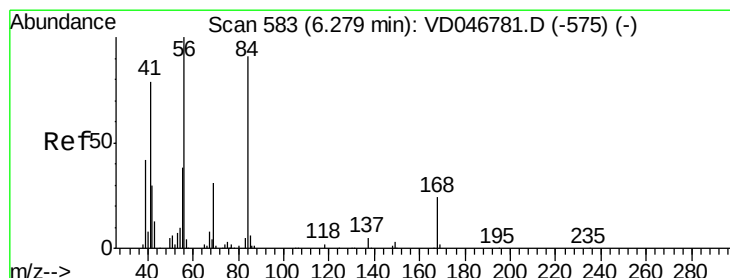
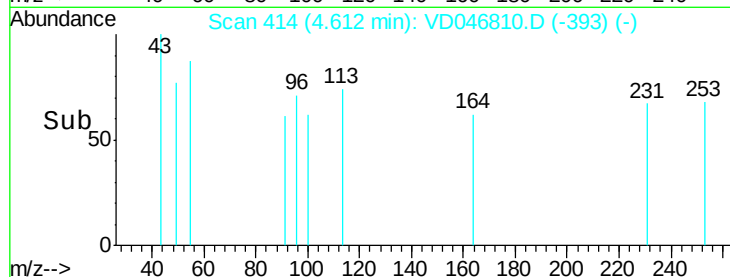
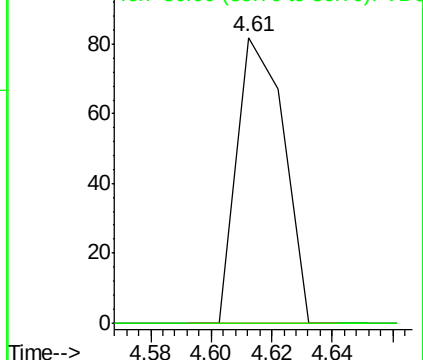
43 100

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: 1.64 ug/l

RT: 6.30 min Scan# 585

Delta R.T. 0.02 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

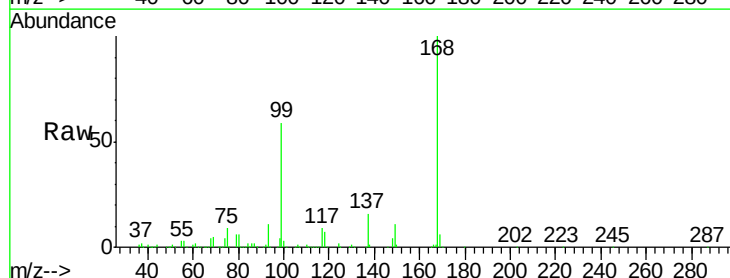
Tgt Ion: 56 Resp: 5129

Ion Ratio Lower Upper

56 100

69 183.6 23.4 35.0#

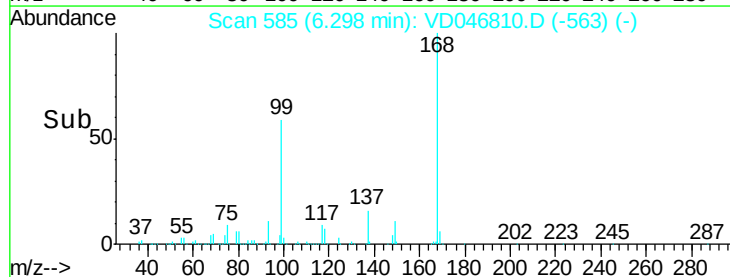
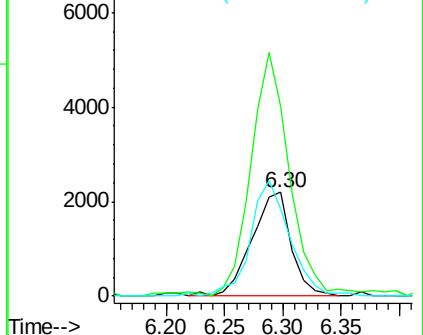
84 84.2 63.8 95.8

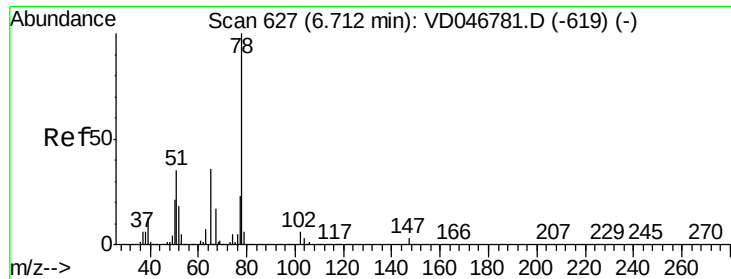


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

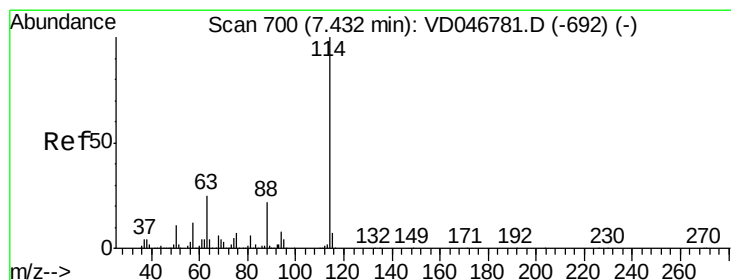
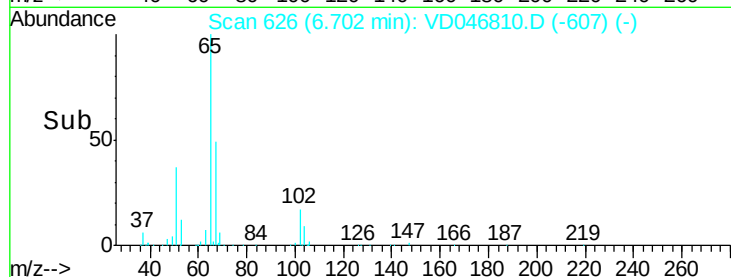
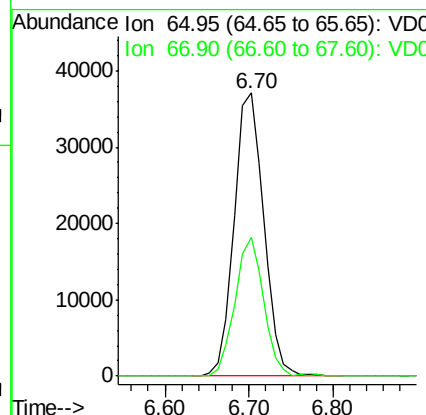
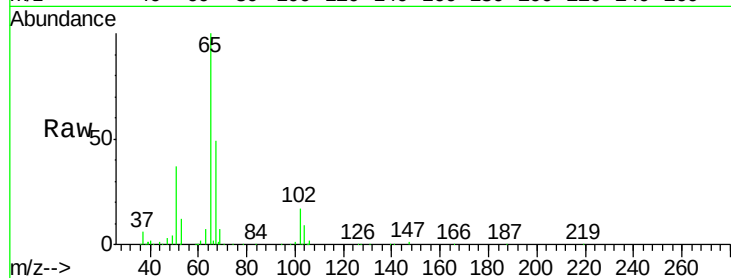




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.70 min Scan# 626
 Delta R.T. -0.01 min
 Lab File: VD046810.D
 Acq: 21 Sep 2015 16:37

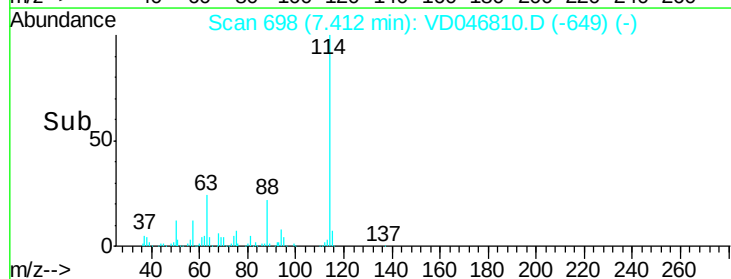
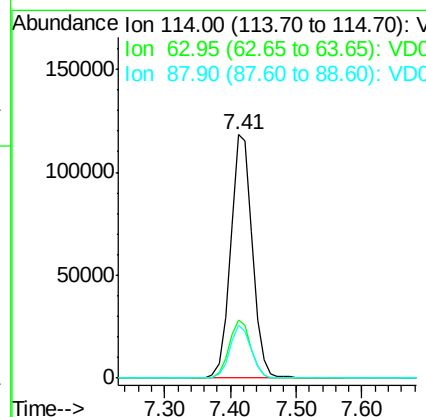
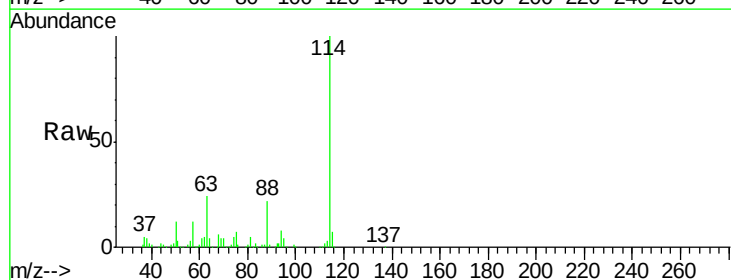
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-PILE

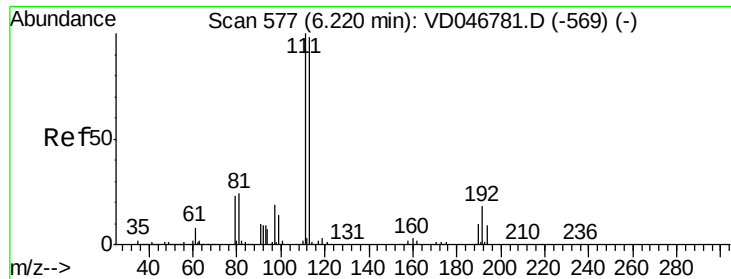
Tot Ion: 65 Resp: 91056
 Ion Ratio Lower Upper
 65 100
 67 49.2 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.41 min Scan# 698
 Delta R.T. -0.02 min
 Lab File: VD046810.D
 Acq: 21 Sep 2015 16:37

Tgt Ion: 114 Resp: 272889
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 49.8
 88 21.8 0.0 43.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.19 min Scan# 574

Delta R.T. -0.03 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

Instrument :

MSVOA_D

ClientSampled :

SOIL-PILE

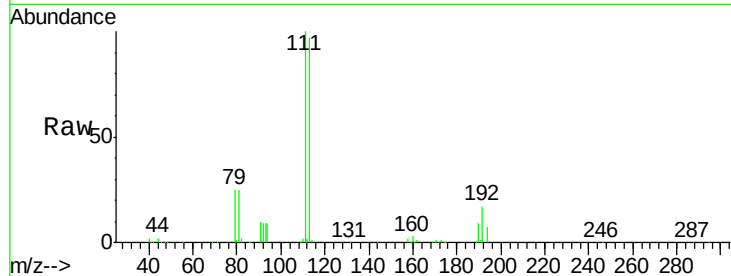
Tot Ion:113 Resp: 94641

Ion Ratio Lower Upper

113 100

111 103.5 79.4 119.0

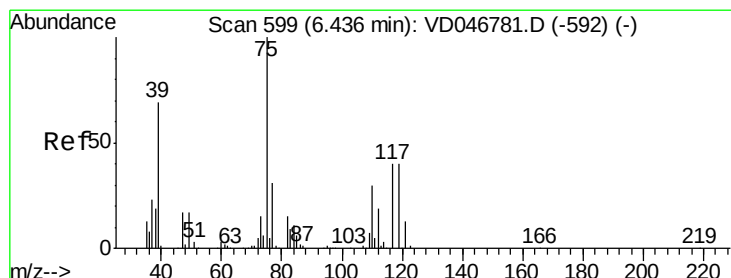
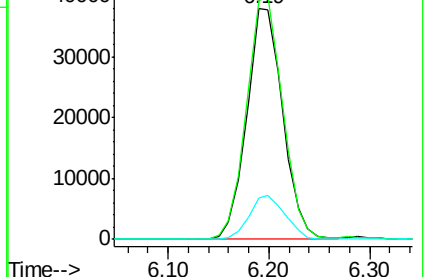
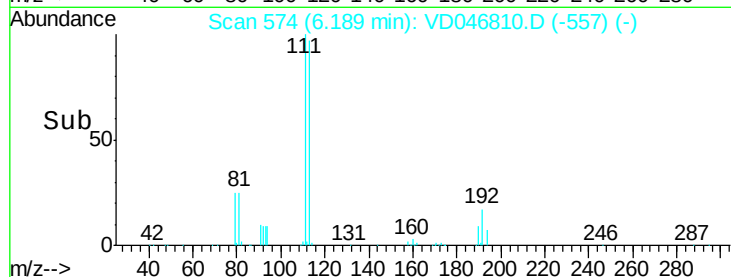
192 17.7 14.6 22.0



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: 5.90 ug/l

RT: 6.29 min Scan# 584

Delta R.T. -0.15 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

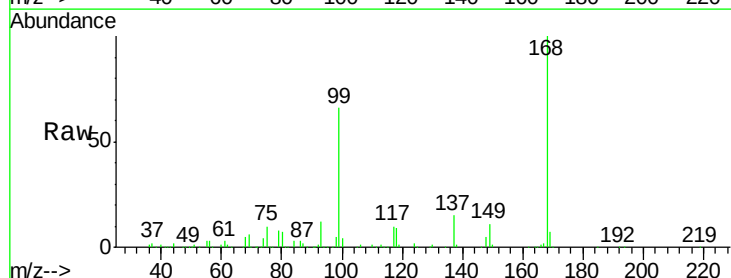
Tgt Ion: 75 Resp: 18831

Ion Ratio Lower Upper

75 100

110 8.2 13.7 41.0#

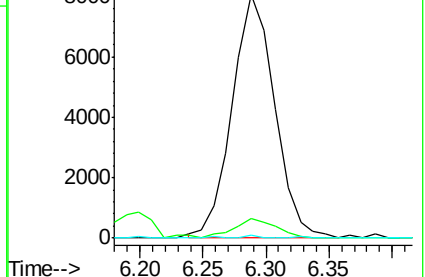
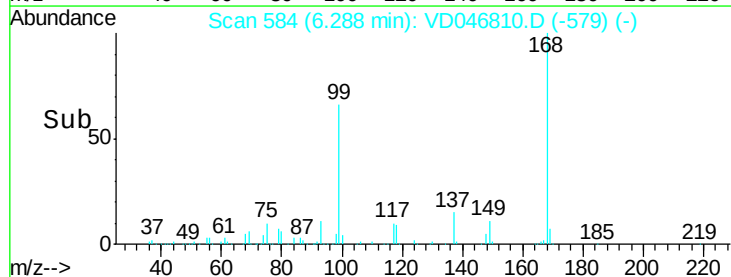
77 1.0 24.7 37.1#

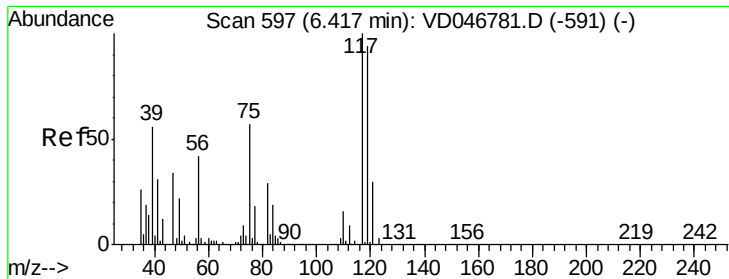


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.91 ug/l

RT: 6.29 min Scan# 584

Delta R.T. -0.13 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

Instrument :

MSVOA_D

ClientSampled :

SOIL-PILE

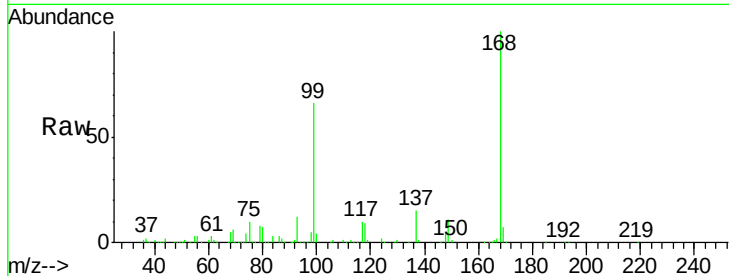
Tot Ion:117 Resp: 19573

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.4#

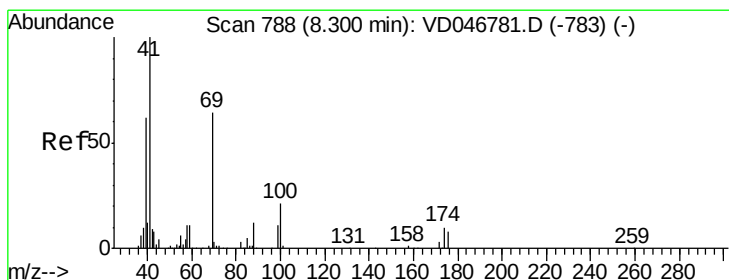
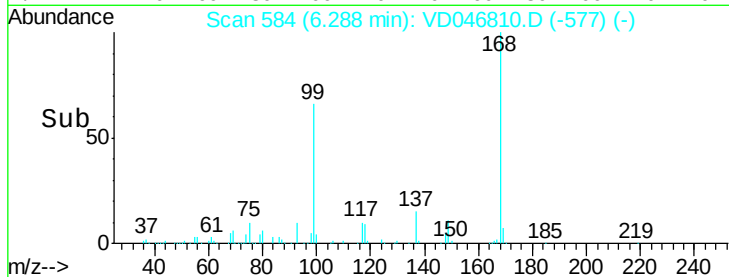
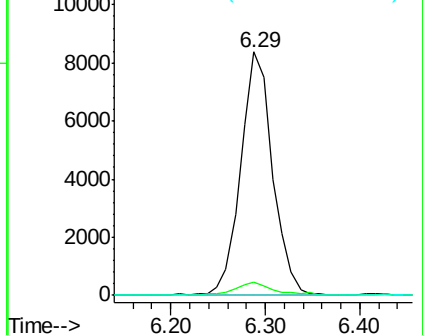
121 0.0 24.5 36.7#



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: 5.24 ug/l

RT: 8.32 min Scan# 790

Delta R.T. 0.02 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

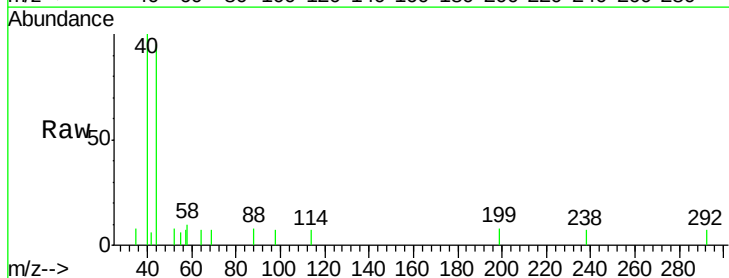
Tgt Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

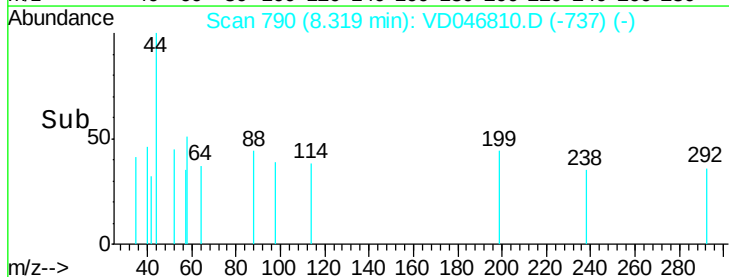
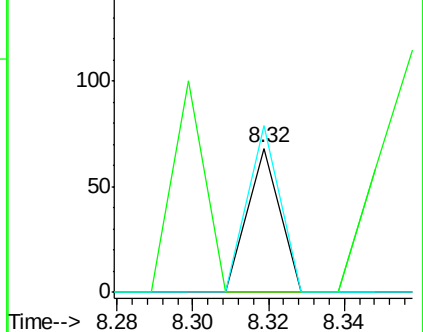
58 116.2 48.3 72.5#

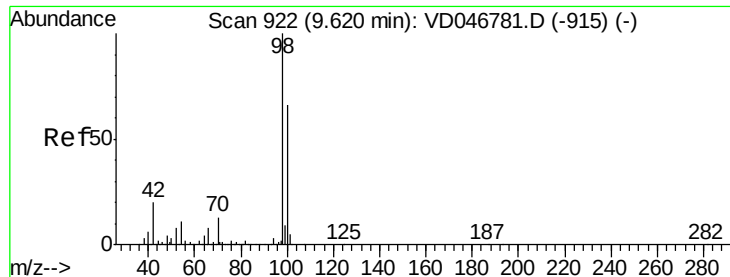


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

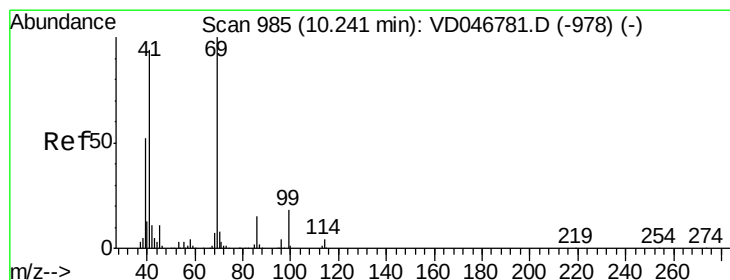
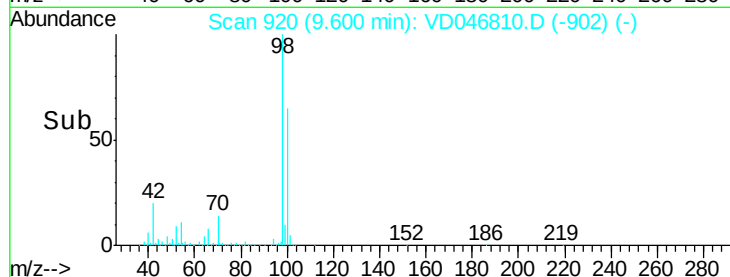
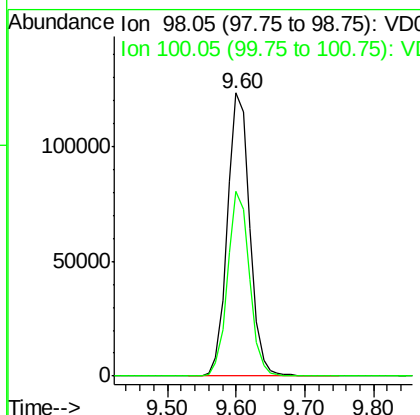
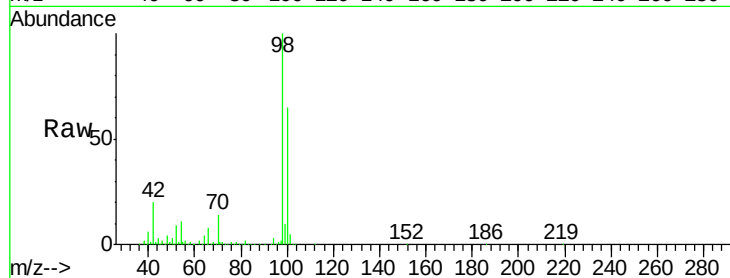




#50
Toluene-d8
Concen: 5.24 ug/l
RT: 9.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: VD046810.D
Acq: 21 Sep 2015 16:37

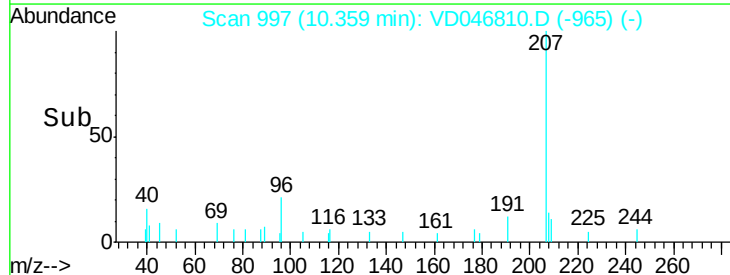
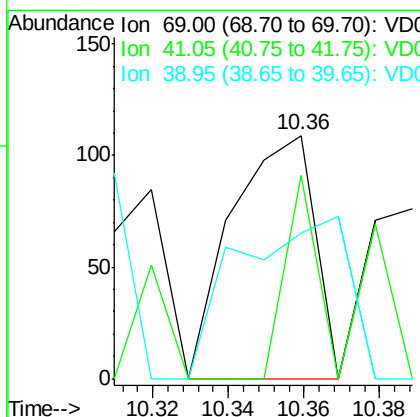
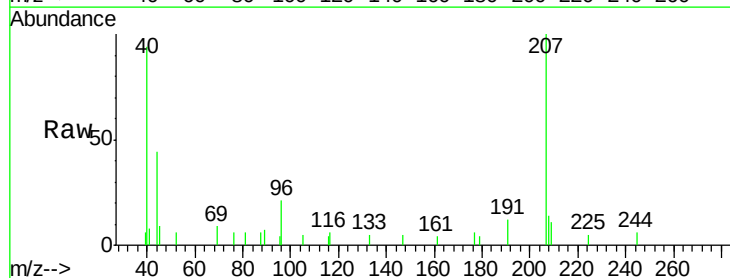
Instrument :
MSVOA_D
ClientSampleId :
SOIL-PILE

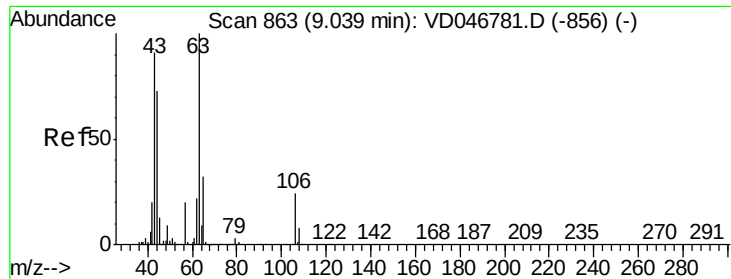
Tot Ion: 98 Resp: 277212
Ion Ratio Lower Upper
98 100
100 65.2 49.9 74.9



#56
Ethyl methacrylate
Concen: 3.99 ug/l
RT: 10.36 min Scan# 997
Delta R.T. 0.12 min
Lab File: VD046810.D
Acq: 21 Sep 2015 16:37

Tgt Ion: 69 Resp: 164
Ion Ratio Lower Upper
69 100
41 83.5 75.4 113.0
39 59.6 41.0 61.4

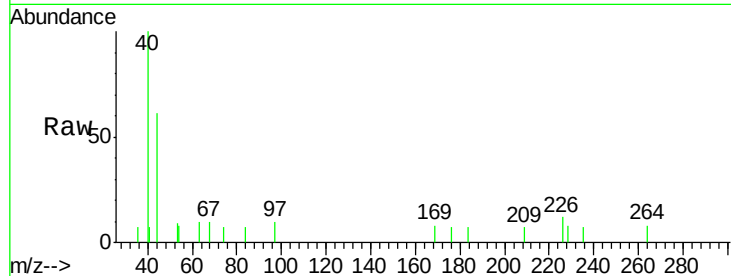




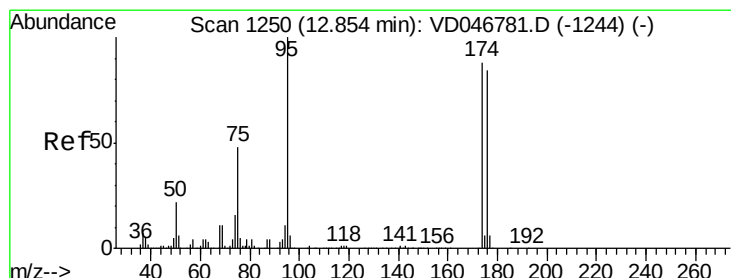
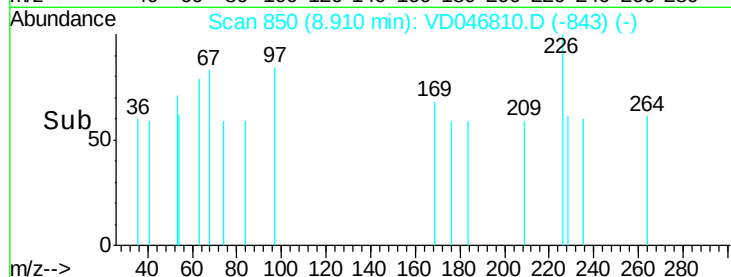
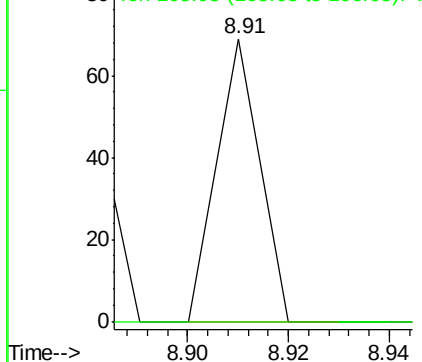
#58
 2-Chloroethyl Vinyl ether
 Concen: 6.39 ug/l
 RT: 8.91 min Scan# 850
 Delta R.T. -0.13 min
 Lab File: VD046810.D
 Acq: 21 Sep 2015 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-PILE

Tot Ion: 63 Resp: 41
 Ion Ratio Lower Upper
 63 100
 106 0.0 17.8 26.8#

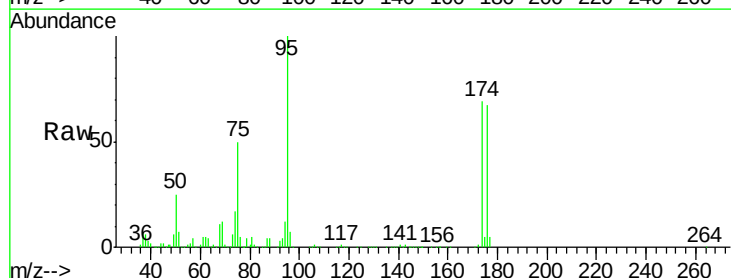


Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 105.95 (105.65 to 106.65): V

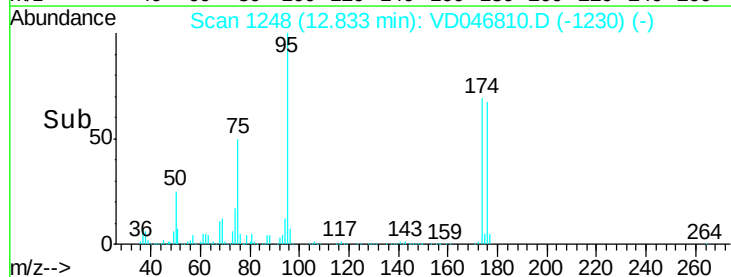
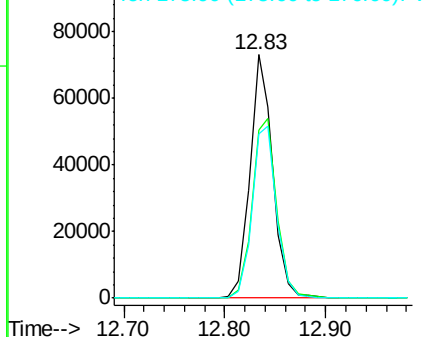


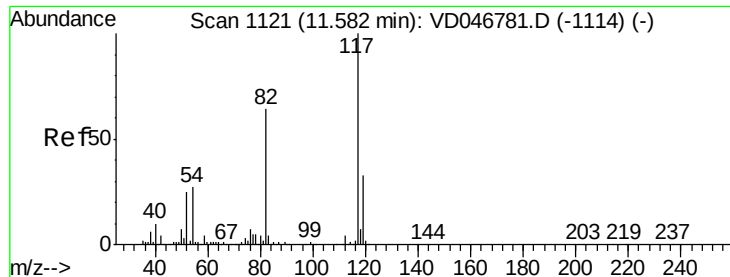
#62
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.83 min Scan# 1248
 Delta R.T. -0.02 min
 Lab File: VD046810.D
 Acq: 21 Sep 2015 16:37

Tgt Ion: 95 Resp: 115177
 Ion Ratio Lower Upper
 95 100
 174 68.9 0.0 149.8
 176 67.2 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

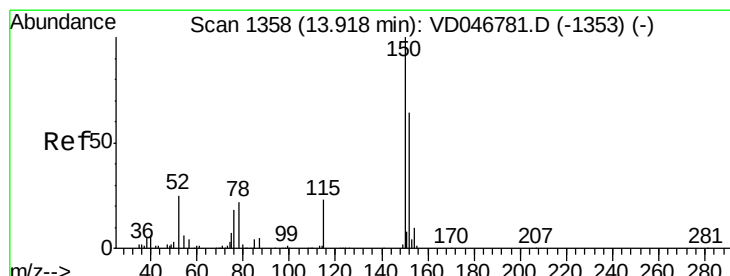
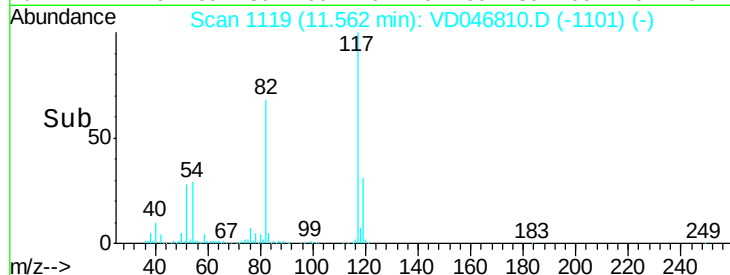
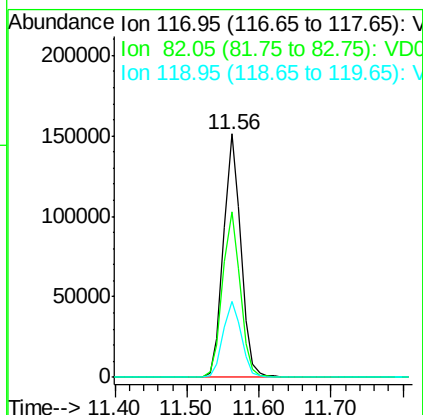
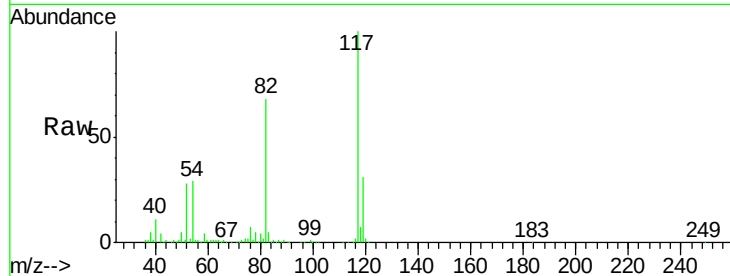




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.56 min Scan# 1119
Delta R.T. -0.02 min
Lab File: VD046810.D
Acq: 21 Sep 2015 16:37

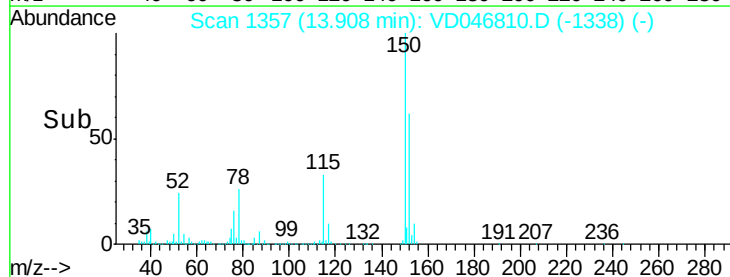
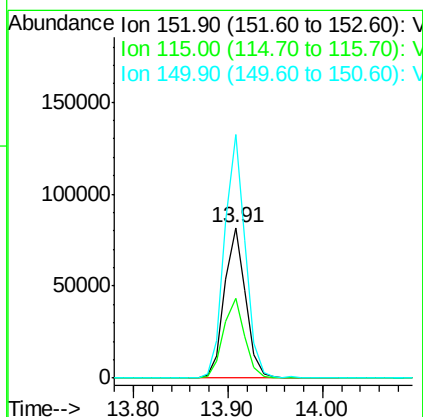
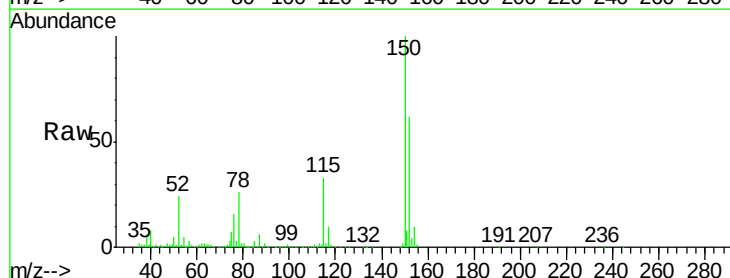
Instrument :
MSVOA_D
ClientSampleId :
SOIL-PILE

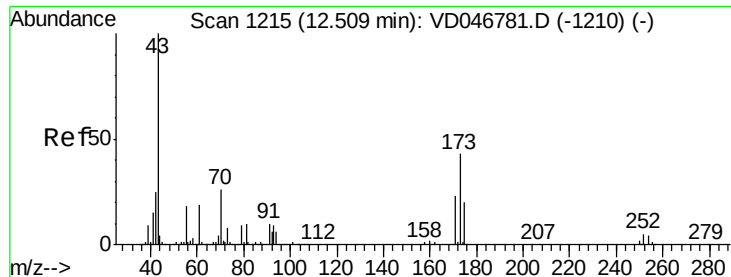
Tot Ion:117 Resp: 253369
Ion Ratio Lower Upper
117 100
82 68.2 50.6 75.8
119 31.3 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.91 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VD046810.D
Acq: 21 Sep 2015 16:37

Tgt Ion:152 Resp: 126598
Ion Ratio Lower Upper
152 100
115 53.3 26.2 78.6
150 162.1 0.0 311.8





#74

N-amvl acetate

Concen: 4.75 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

Instrument :

MSVOA_D

ClientSampleId :

SOIL-PILE

Tot Ion: 43 Resp: 92

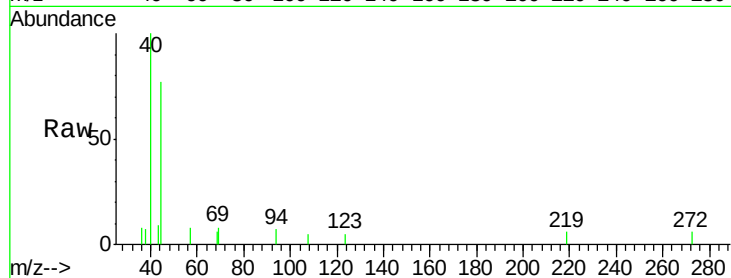
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 0.0 14.5 21.7#

61 0.0 14.6 21.8#

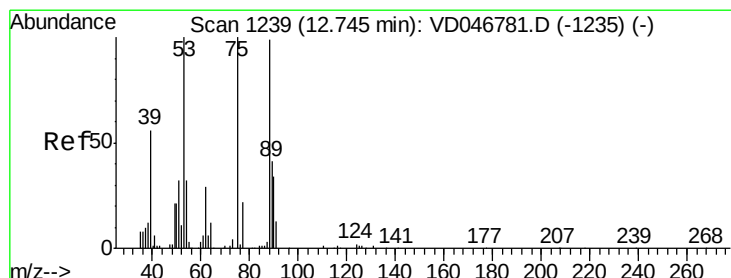
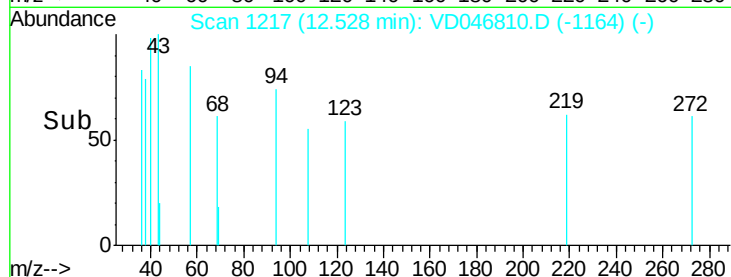
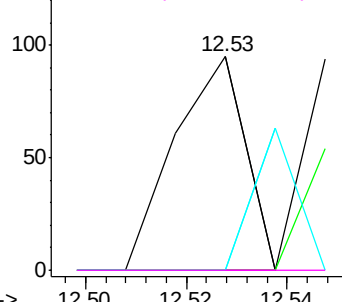


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 129.33 ug/l

RT: 12.83 min Scan# 1248

Delta R.T. 0.09 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

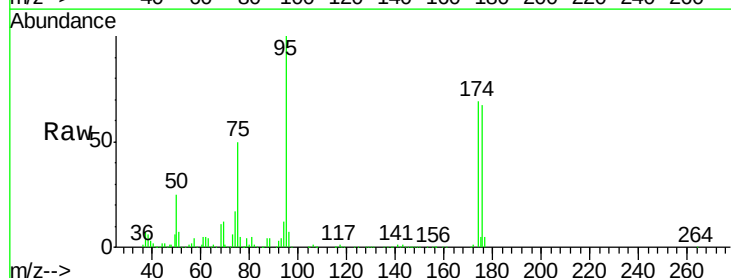
Tgt Ion: 75 Resp: 57576

Ion Ratio Lower Upper

75 100

53 0.2 82.3 123.5#

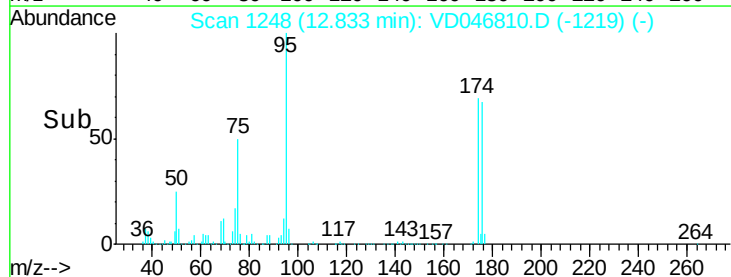
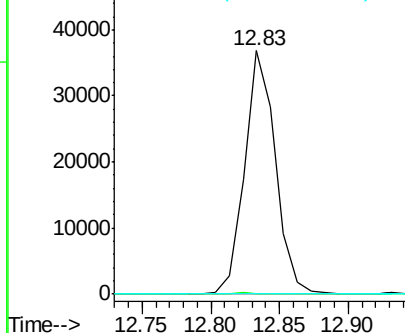
89 0.0 36.6 54.8#

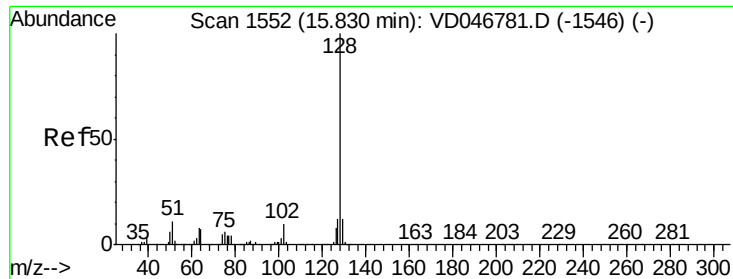


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 2.50 ug/l

RT: 15.82 min Scan# 1551

Delta R.T. -0.01 min

Lab File: VD046810.D

Acq: 21 Sep 2015 16:37

Instrument :

MSVOA_D

ClientSampleId :

SOIL-PILE

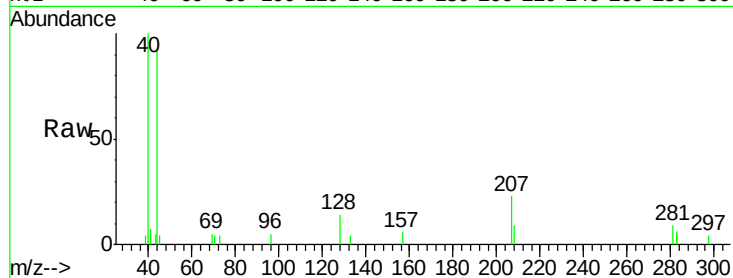
Tot Ion:128 Resp: 338

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.6#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

