

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046804.D
 Acq On : 21 Sep 2015 13:56
 Operator : FY/SY
 Sample : G3747-01
 Misc : 6.21gm/5mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-1-1

Quant Time: Sep 22 01:02:49 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	168860	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	232148	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.57	117	210110	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.91	152	111210	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.70	65	89730	51.11	ug/l	-0.02
Spiked Amount			Recovery	=	102.22%	
35) Dibromofluoromethane	6.19	113	92742	51.06	ug/l	-0.03
Spiked Amount			Recovery	=	102.12%	
50) Toluene-d8	9.60	98	270489	47.21	ug/l	-0.02
Spiked Amount			Recovery	=	94.42%	
62) 4-Bromofluorobenzene	12.84	95	106338	46.09	ug/l	-0.02
Spiked Amount			Recovery	=	92.18%	

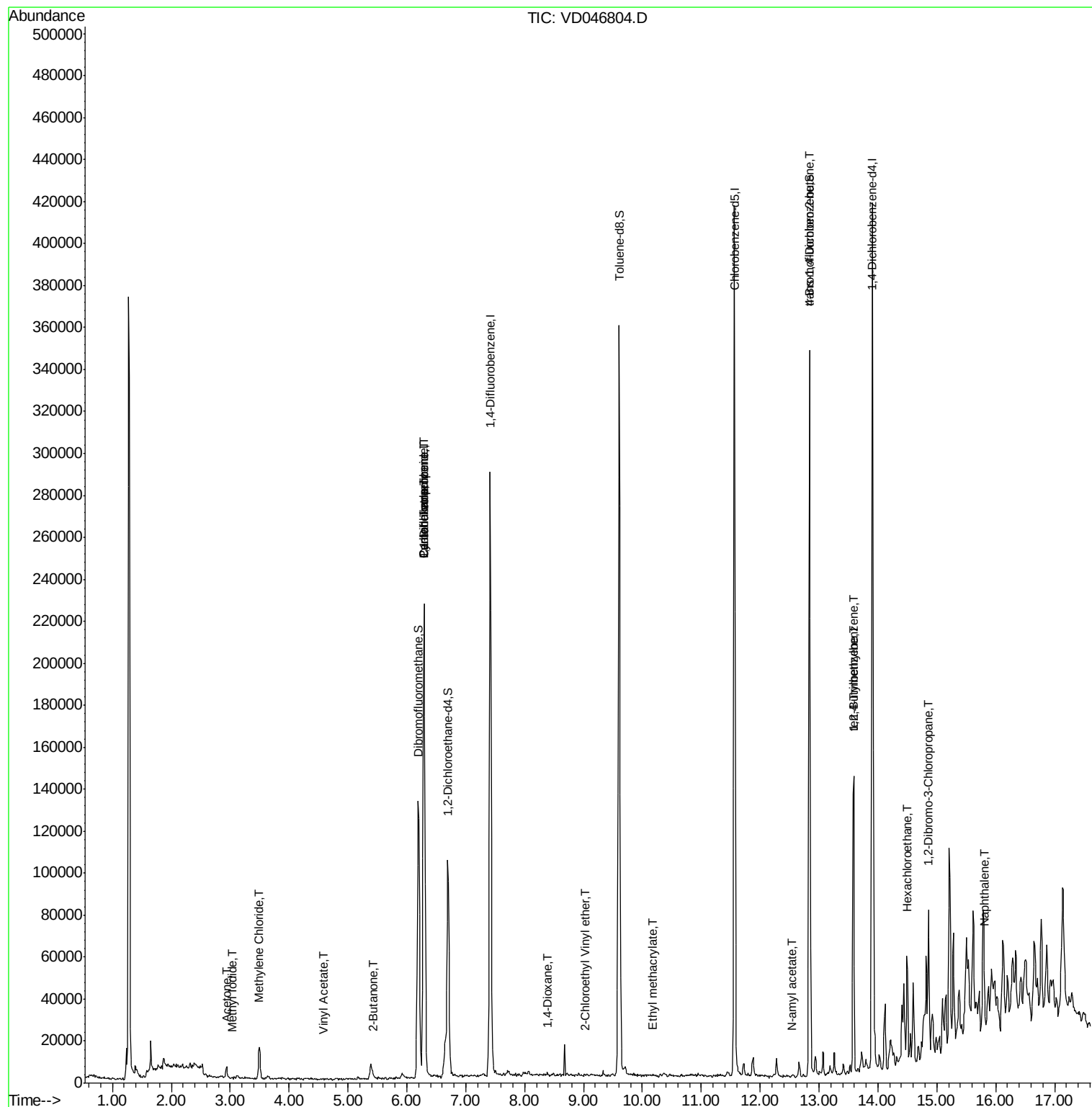
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.41	85	694	Below Cal		90
3) Chlorodifluoromethane	1.43	51	1068	Below Cal		95
6) Bromomethane	1.98	94	247	Below Cal		91
11) Methyl Iodide	3.04	142	96	1.78 ug/l	#	87
12) Tert butyl alcohol	3.64	59	1087	Below Cal	#	74
17) Acetone	2.94	43	6566	22.13 ug/l		94
21) Methylene Chloride	3.49	84	6468	4.02 ug/l	#	77
24) Vinyl Acetate	4.58	43	30	15.02 ug/l	#	82
26) 2-Butanone	5.44	43	1681	5.04 ug/l	#	80
31) Cyclohexane	6.29	56	4925	1.87 ug/l	#	13
36) 1,1-Dichloropropene	6.29	75	15213	5.61 ug/l	#	53
38) Carbon Tetrachloride	6.29	117	16211	5.75 ug/l	#	15
49) 1,4-Dioxane	8.37	88	31	4.77 ug/l	#	20
56) Ethyl methacrylate	10.18	69	72	3.93 ug/l		84
58) 2-Chloroethyl Vinyl ether	9.03	63	38	6.40 ug/l	#	53
74) N-amyl acetate	12.52	43	81	4.75 ug/l	#	17
81) trans-1,4-Dichloro-2-buten	12.84	75	54054	137.96 ug/l	#	9
83) tert-Butylbenzene	13.59	119	8174	1.45 ug/l	#	60
84) 1,2,4-Trimethylbenzene	13.59	105	75337	11.98 ug/l		99
90) Hexachloroethane	14.49	117	2393	1.59 ug/l	#	8
92) 1,2-Dibromo-3-Chloropropan	14.87	75	415	2.55 ug/l	#	1
95) Naphthalene	15.81	128	7632	5.46 ug/l		97

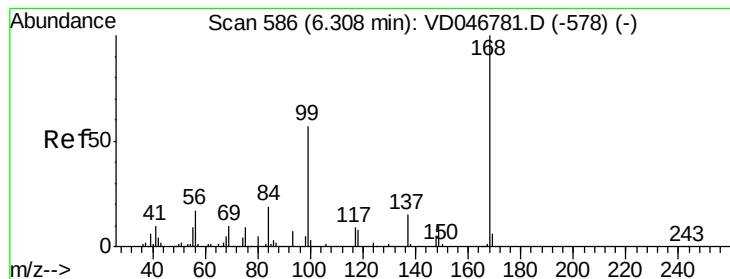
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Operator : FY/SY
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Quant Time: Sep 22 01:02:49 2015
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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# 585

Delta R.T. -0.02 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

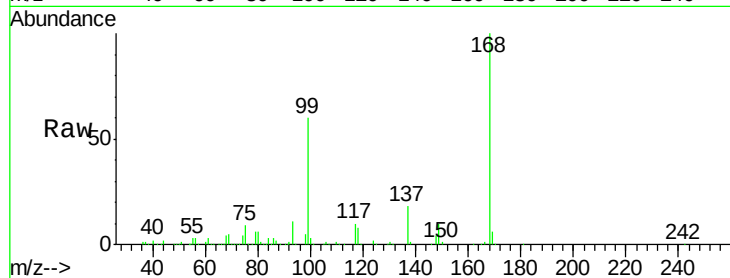
TRENCH-1-1

Tot Ion:168 Resp: 168860

Ion Ratio Lower Upper

168 100

99 59.6 42.4 63.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.29

80000

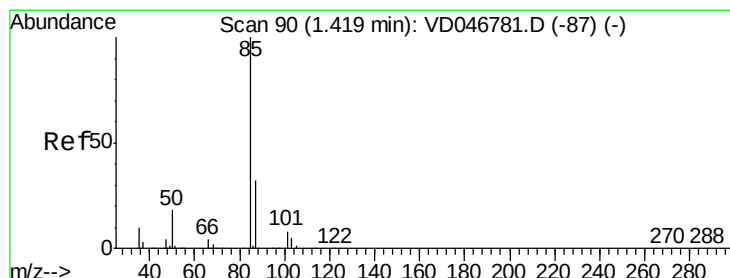
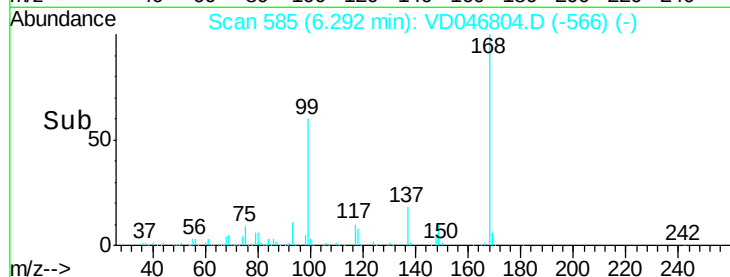
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.41 min Scan# 90

Delta R.T. -0.01 min

Lab File: VD046804.D

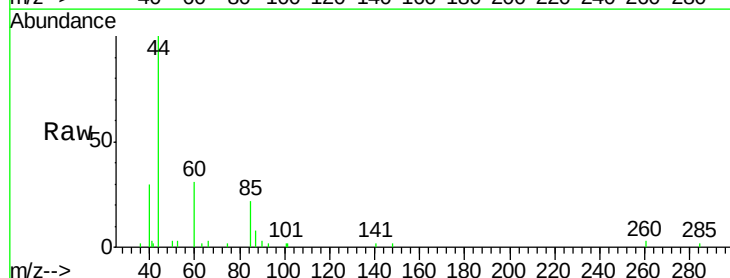
Acq: 21 Sep 2015 13:56

Tgt Ion: 85 Resp: 694

Ion Ratio Lower Upper

85 100

87 37.8 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.41

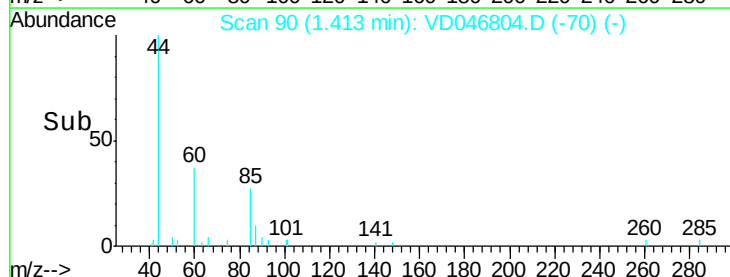
600

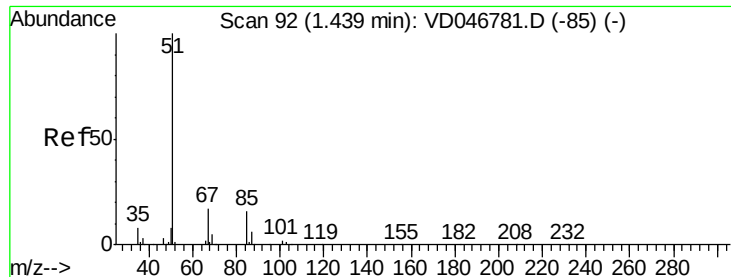
400

200

0

Time-->





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.43 min Scan# 92

Delta R.T. -0.01 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

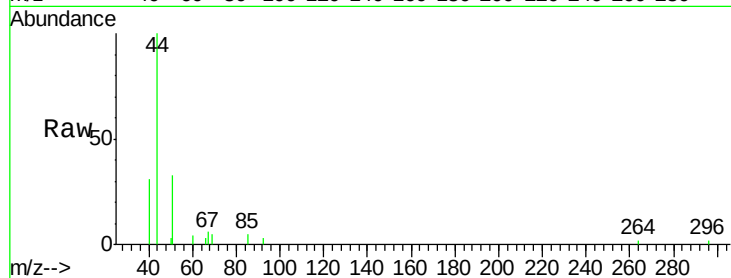
TRENCH-1-1

Tot Ion: 51 Resp: 1068

Ion Ratio Lower Upper

51 100

67 15.6 10.9 16.3



Abundance Ion 51.00 (50.70 to 51.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

1.43

800

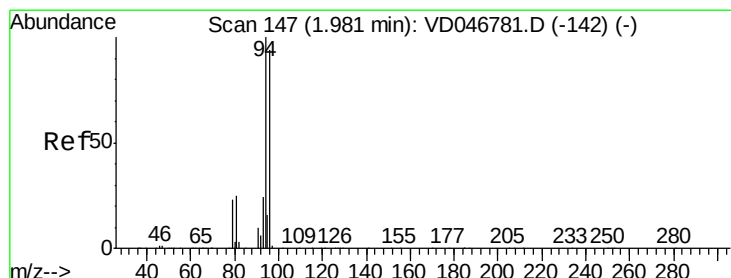
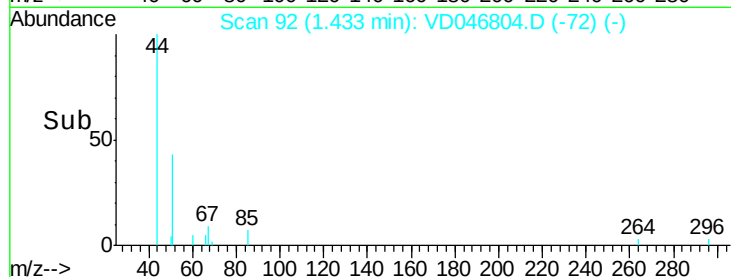
600

400

200

0

Time--> 1.35 1.40 1.45 1.50



#6

Bromomethane

Concen: Below Cal

RT: 1.98 min Scan# 147

Delta R.T. -0.01 min

Lab File: VD046804.D

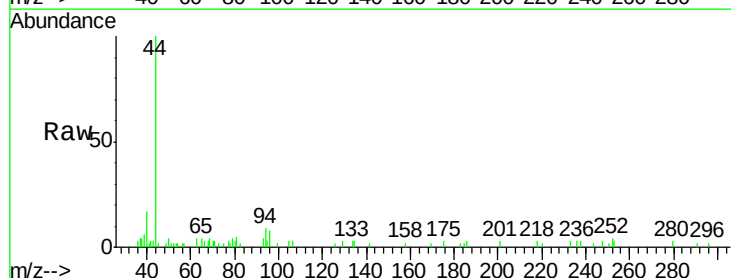
Acq: 21 Sep 2015 13:56

Tgt Ion: 94 Resp: 247

Ion Ratio Lower Upper

94 100

96 86.1 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.98

250

200

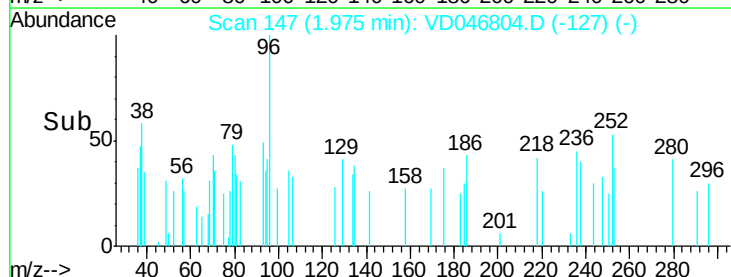
150

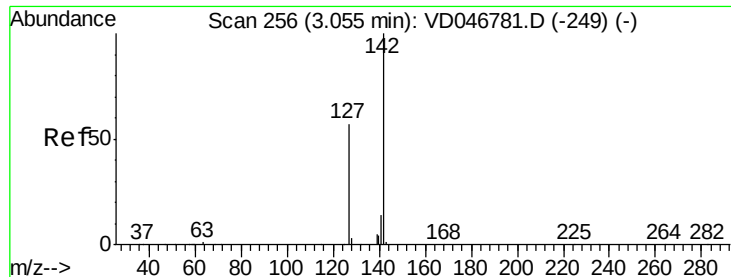
100

50

0

Time--> 1.96 1.98 2.00

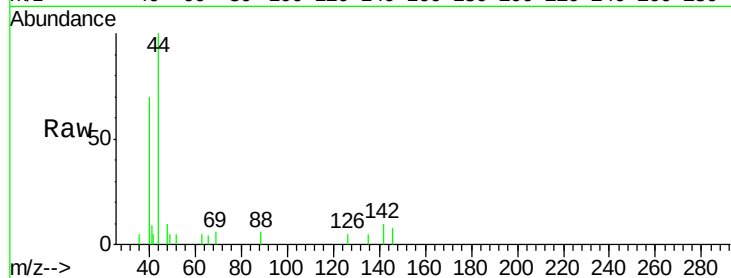




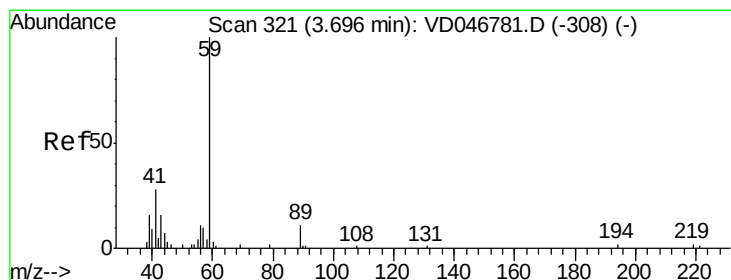
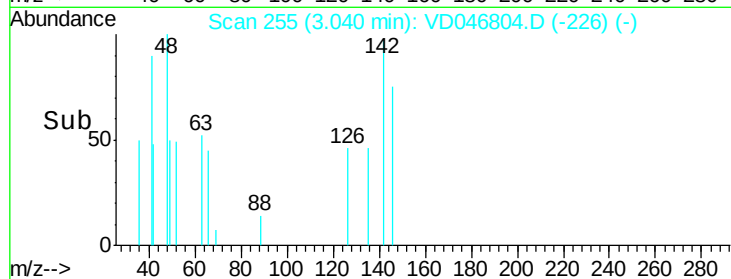
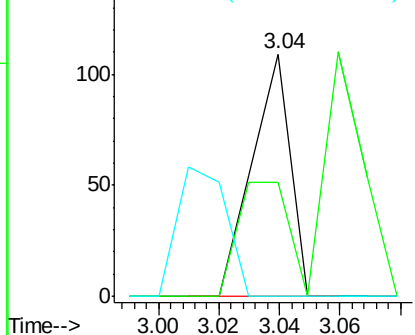
#11
Methvl Iodide
Concen: 1.78 ua/l
RT: 3.04 min Scan# 255
Delta R.T. -0.02 min
Lab File: VD046804.D
Acq: 21 Sep 2015 13:56

Instrument :
MSVOA_D
ClientSampleId :
TRENCH-1-1

Tot Ion	Ratio	Lower	Upper
142	100		
127	46.8	41.2	61.8
141	0.0	11.6	17.4

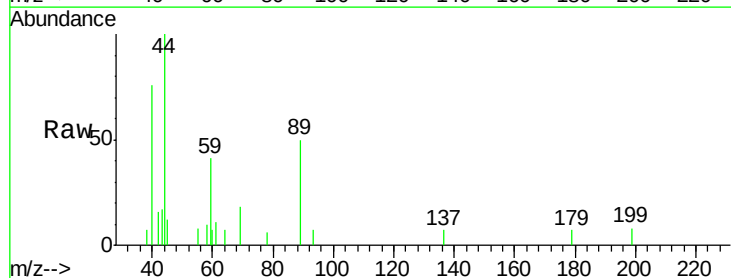


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

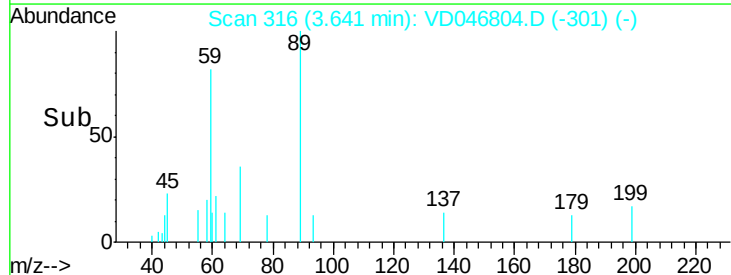
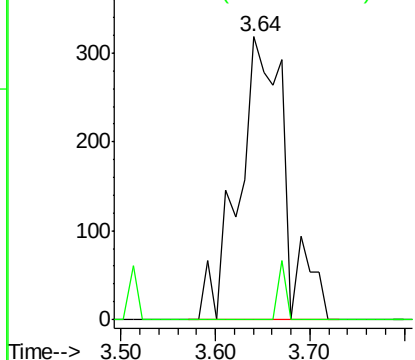


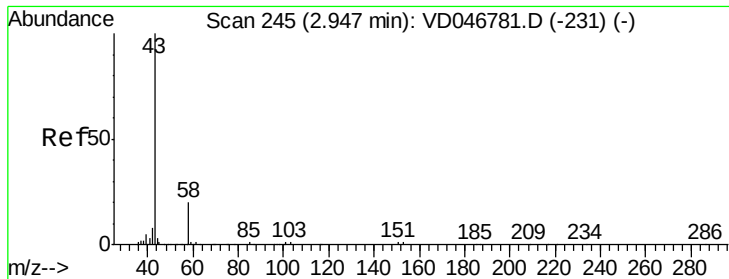
#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.64 min Scan# 316
Delta R.T. -0.06 min
Lab File: VD046804.D
Acq: 21 Sep 2015 13:56

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: 22.13 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.01 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

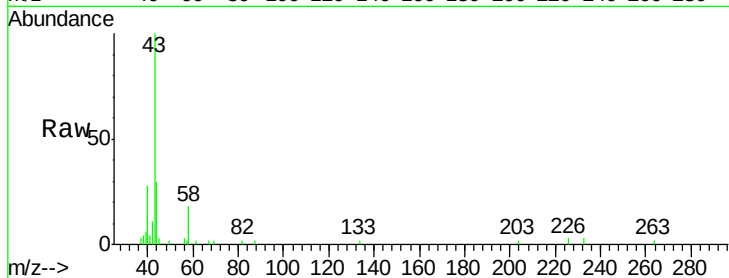
TRENCH-1-1

Tot Ion: 43 Resp: 6566

Ion Ratio Lower Upper

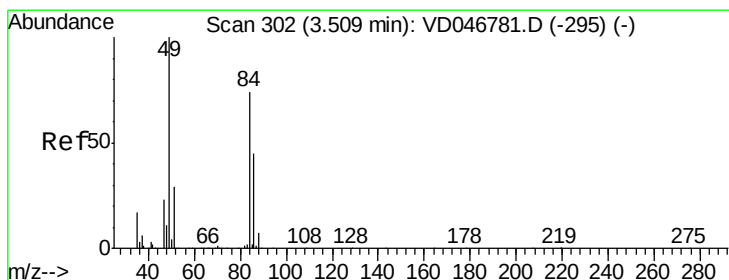
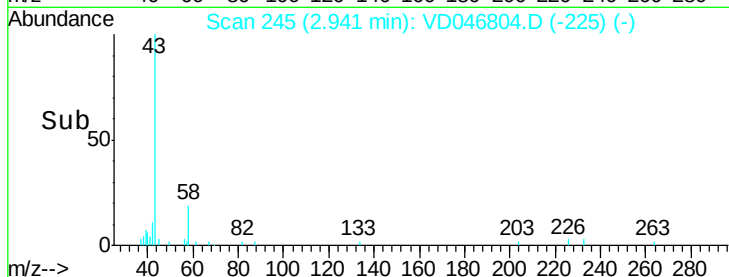
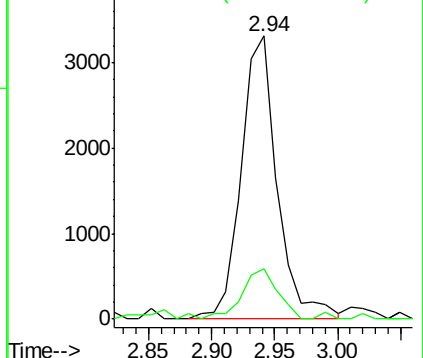
43 100

58 18.0 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: 4.02 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Tgt Ion: 84 Resp: 6468

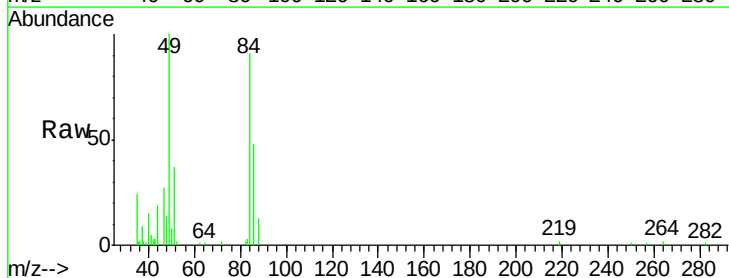
Ion Ratio Lower Upper

84 100

49 109.8 122.1 183.1#

51 41.1 33.6 50.4

86 52.2 48.3 72.5

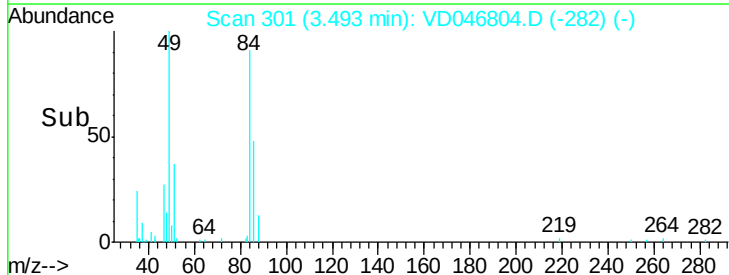
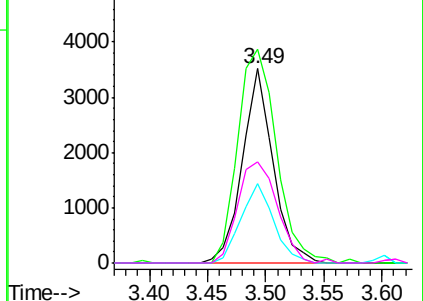


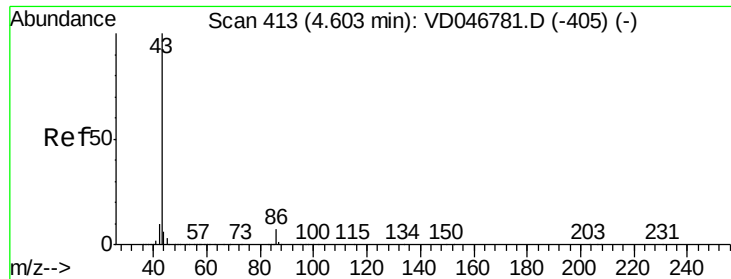
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 15.02 ug/l

RT: 4.58 min Scan# 411

Delta R.T. -0.03 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

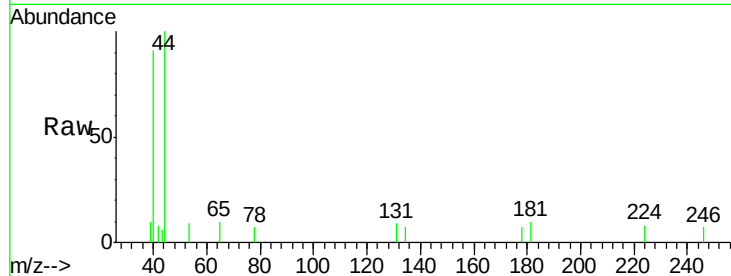
TRENCH-1-1

Tot Ion: 43 Resp: 30

Ion Ratio Lower Upper

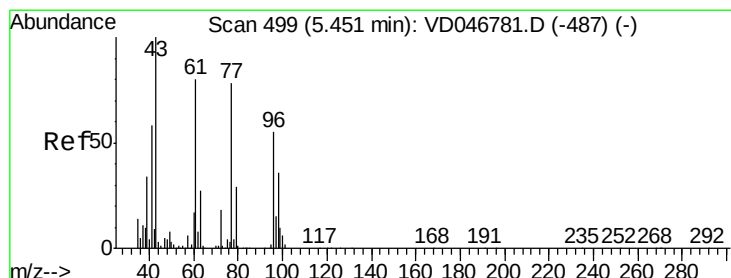
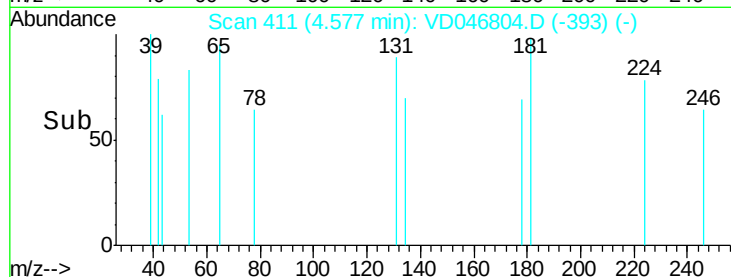
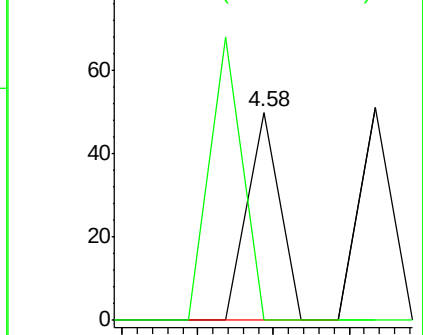
43 100

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: 5.04 ug/l

RT: 5.44 min Scan# 499

Delta R.T. -0.01 min

Lab File: VD046804.D

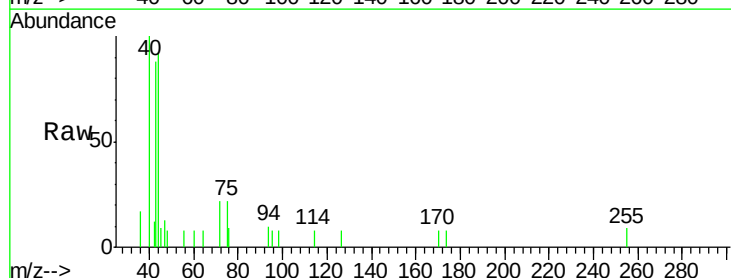
Acq: 21 Sep 2015 13:56

Tgt Ion: 43 Resp: 1681

Ion Ratio Lower Upper

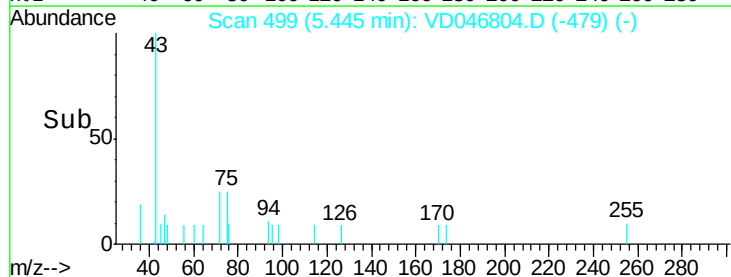
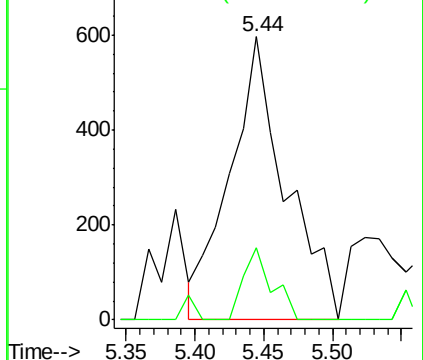
43 100

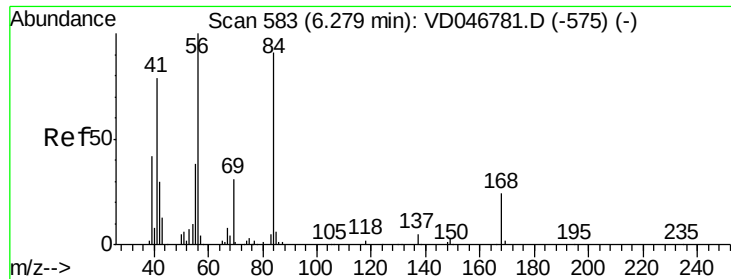
72 25.3 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

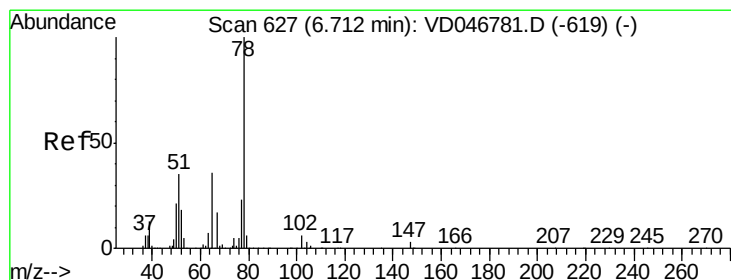
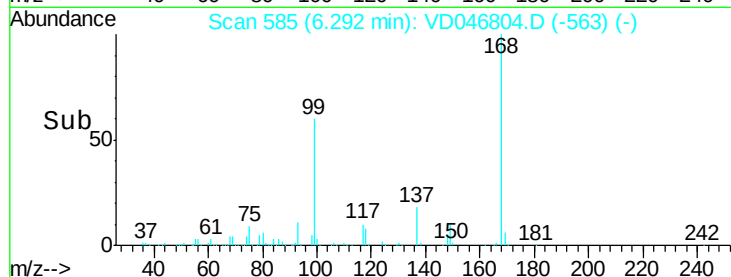
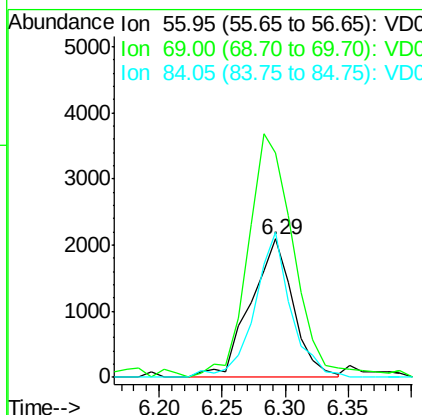
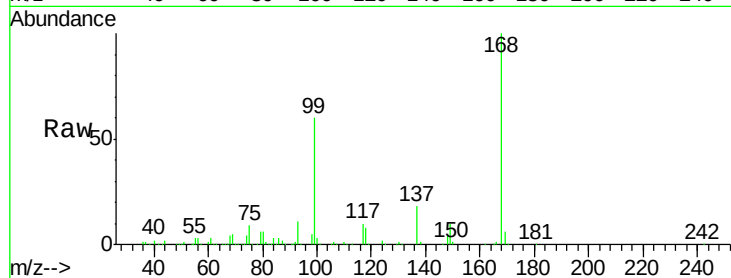




#31
Cyclohexane
Concen: 1.87 ug/l
RT: 6.29 min Scan# 585
Delta R.T. 0.01 min
Lab File: VD046804.D
Acq: 21 Sep 2015 13:56

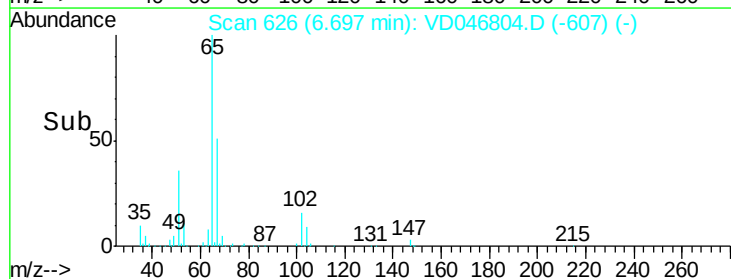
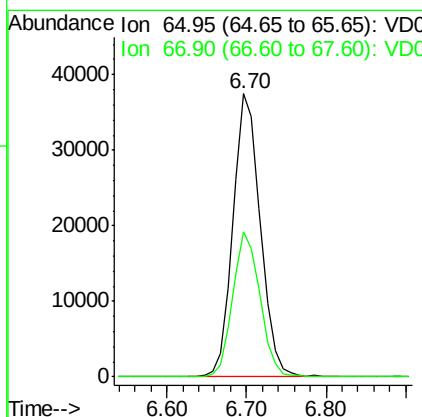
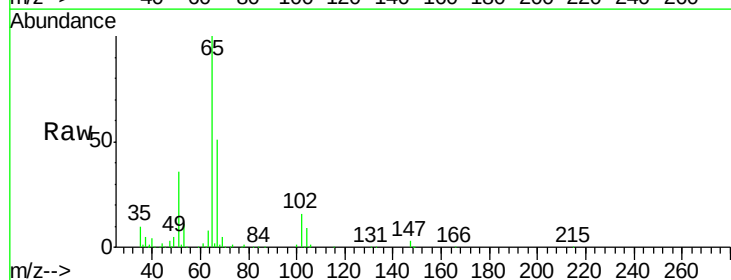
Instrument :
MSVOA_D
ClientSampleId :
TRENCH-1-1

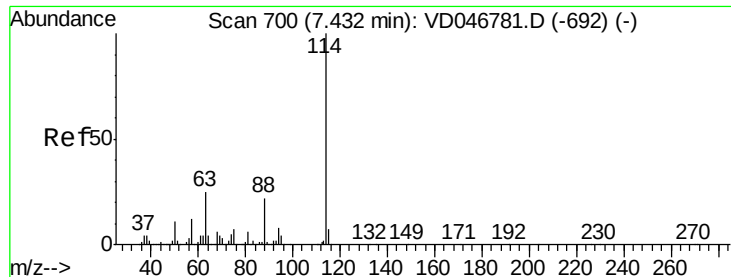
Tot Ion	56	Resp	4925
Ion	Ratio	Lower	Upper
56	100		
69	162.6	23.4	35.0#
84	104.7	63.8	95.8#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.70 min Scan# 626
Delta R.T. -0.02 min
Lab File: VD046804.D
Acq: 21 Sep 2015 13:56

Tgt Ion	65	Resp	89730
Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	105.4





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.02 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-1

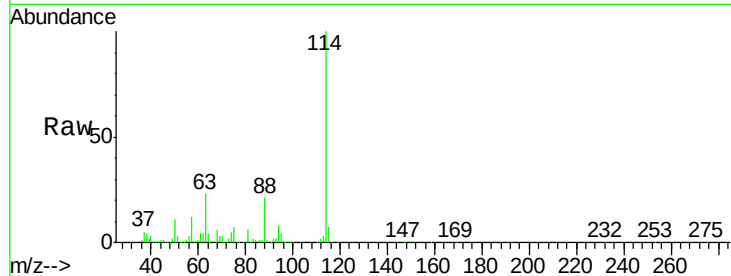
Tot Ion:114 Resp: 232148

Ion Ratio Lower Upper

114 100

63 23.4 0.0 49.8

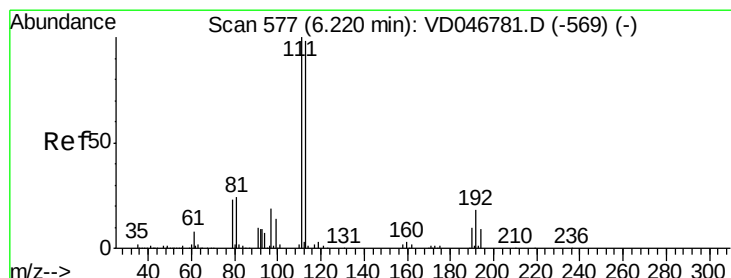
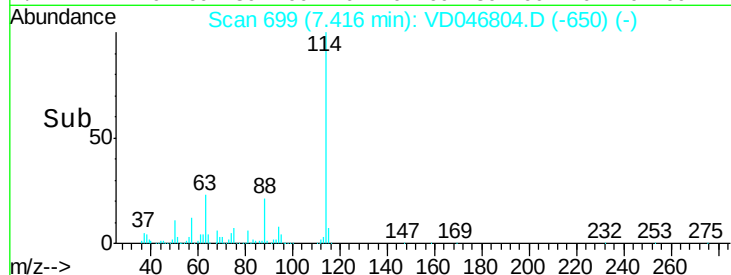
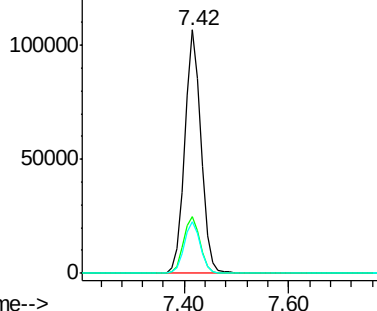
88 21.0 0.0 43.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.19 min Scan# 575

Delta R.T. -0.03 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

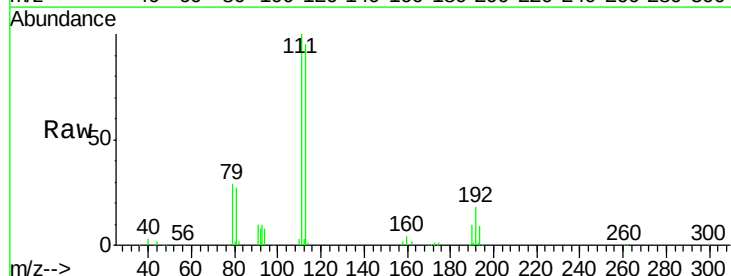
Tgt Ion:113 Resp: 92742

Ion Ratio Lower Upper

113 100

111 105.8 79.4 119.0

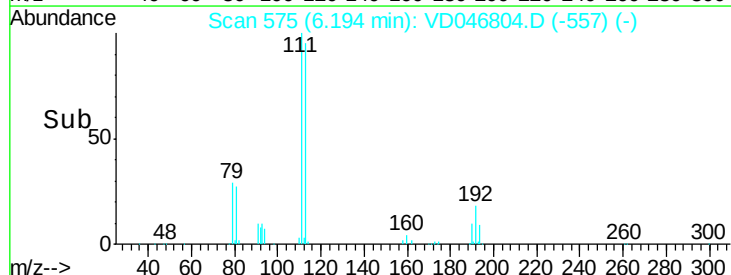
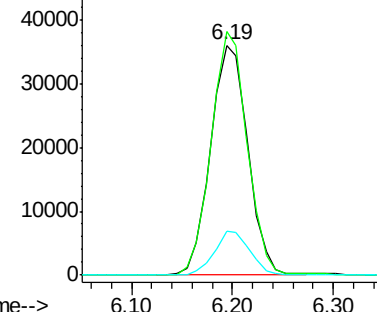
192 18.9 14.6 22.0

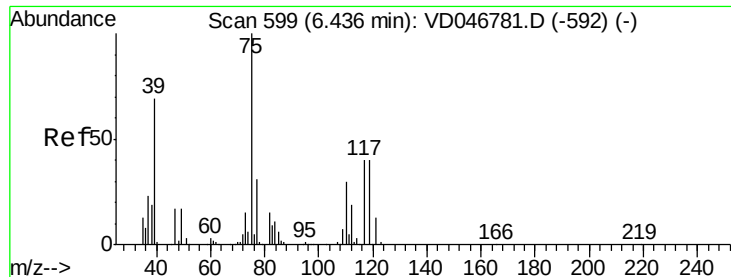


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.61 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.14 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-1

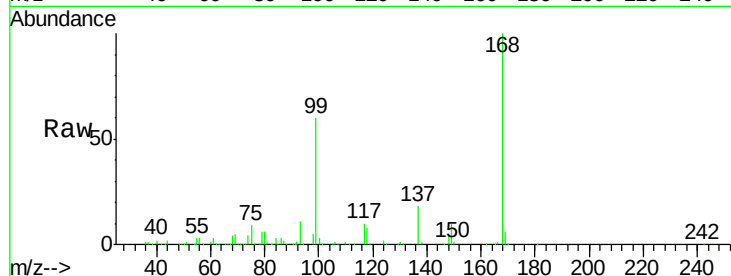
Tot Ion: 75 Resp: 15213

Ion Ratio Lower Upper

75 100

110 7.8 13.7 41.0#

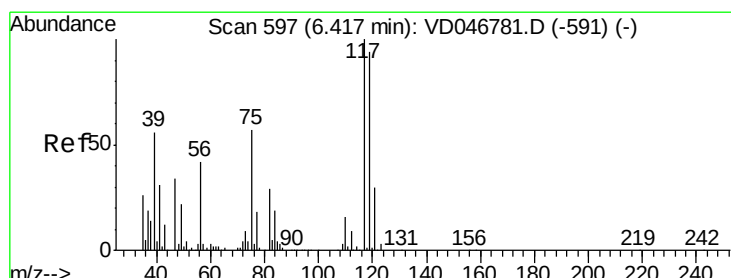
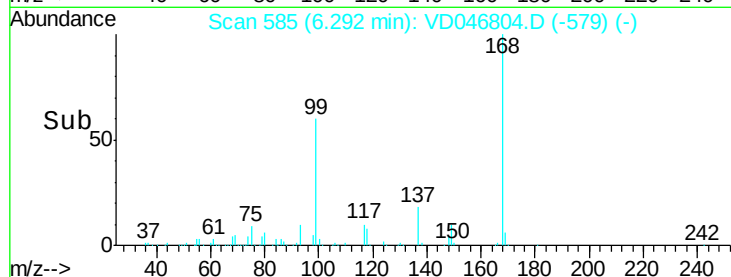
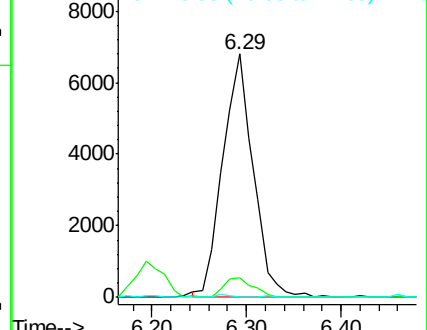
77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 5.75 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.12 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

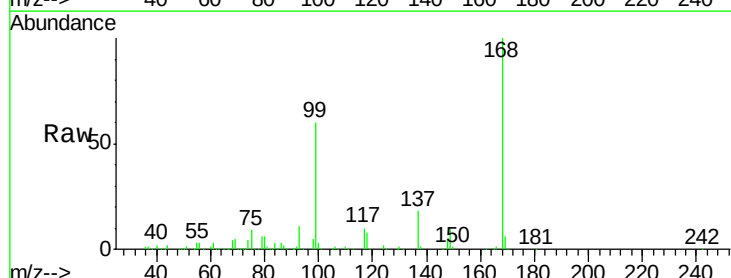
Tgt Ion: 117 Resp: 16211

Ion Ratio Lower Upper

117 100

119 4.1 76.2 114.4#

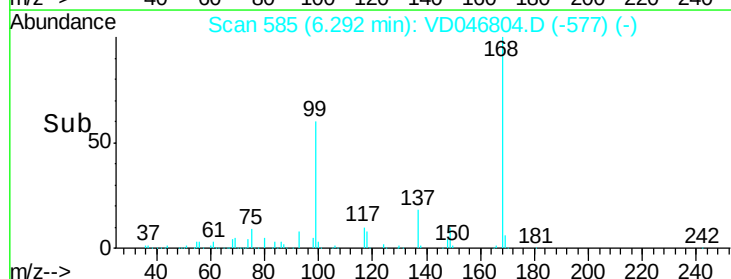
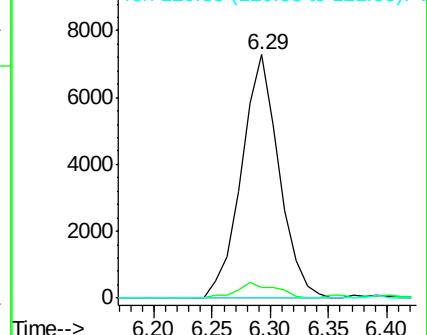
121 0.0 24.5 36.7#

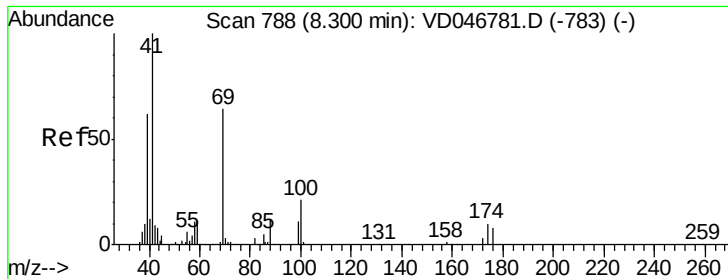


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

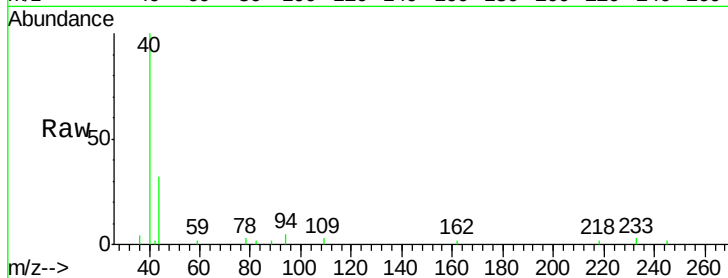




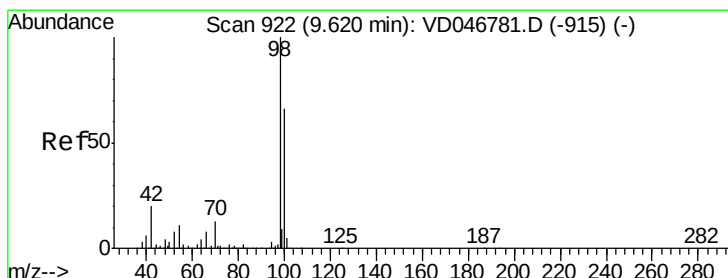
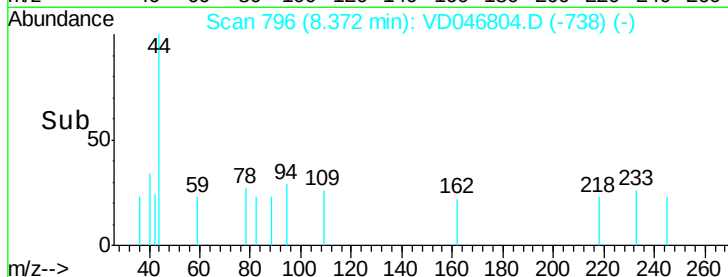
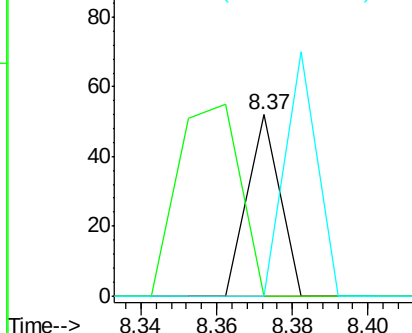
#49
 1,4-Dioxane
 Concen: 4.77 ug/l
 RT: 8.37 min Scan# 796
 Delta R.T. 0.07 min
 Lab File: VD046804.D
 Acq: 21 Sep 2015 13:56

Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-1-1

Tot Ion: 88 Resp: 31
 Ion Ratio Lower Upper
 88 100
 43 0.0 50.0 75.0#
 58 0.0 48.3 72.5#

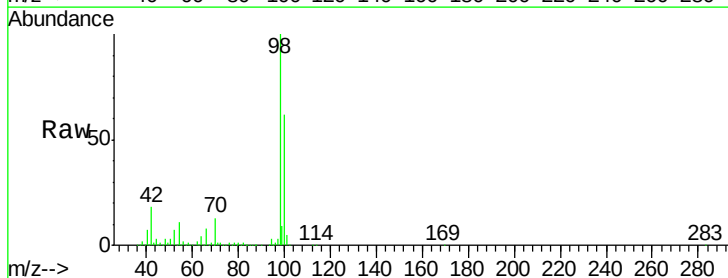


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

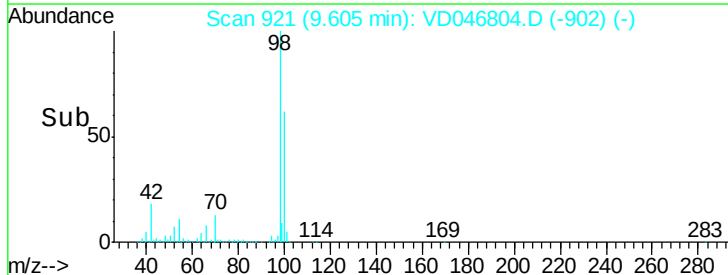
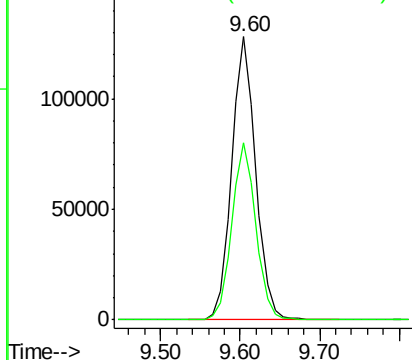


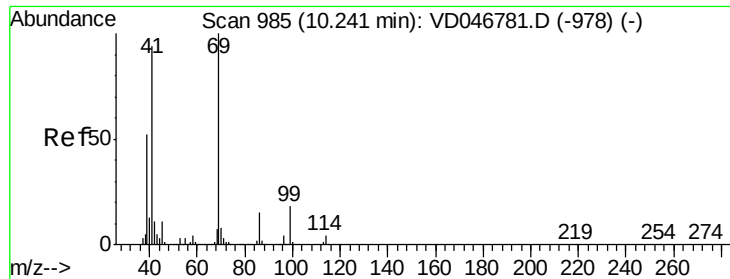
#50
 Toluene-d8
 Concen: 4.77 ug/l
 RT: 9.60 min Scan# 921
 Delta R.T. -0.02 min
 Lab File: VD046804.D
 Acq: 21 Sep 2015 13:56

Tgt Ion: 98 Resp: 270489
 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: 3.93 ug/l

RT: 10.18 min Scan# 979

Delta R.T. -0.06 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-1

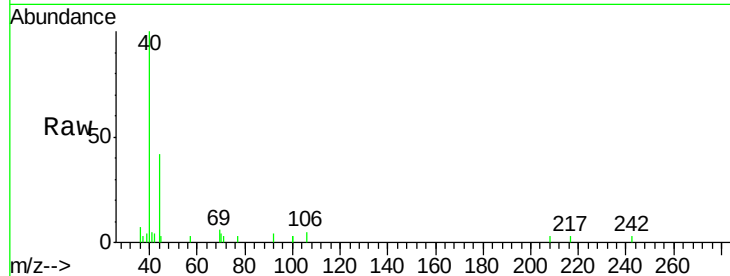
Tot Ion: 69 Resp: 72

Ion Ratio Lower Upper

69 100

41 77.7 75.4 113.0

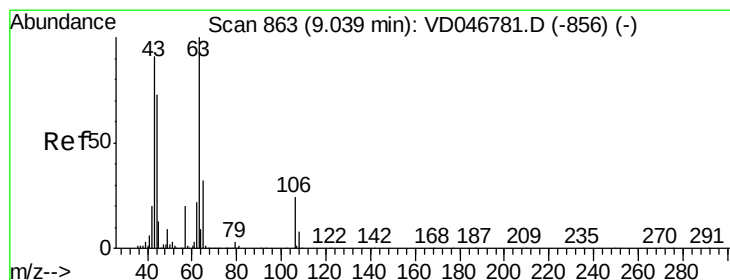
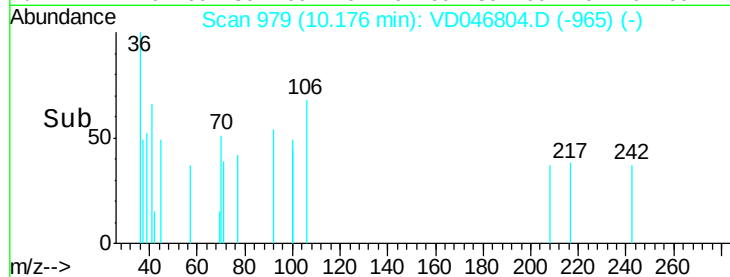
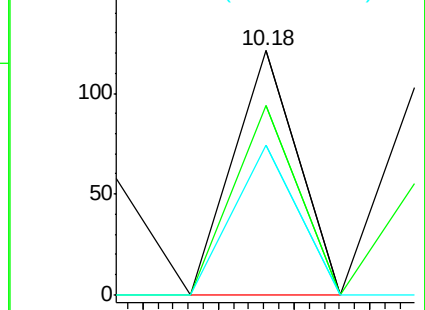
39 61.2 41.0 61.4



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



#58

2-Chloroethyl Vinyl ether

Concen: 6.40 ug/l

RT: 9.03 min Scan# 863

Delta R.T. -0.01 min

Lab File: VD046804.D

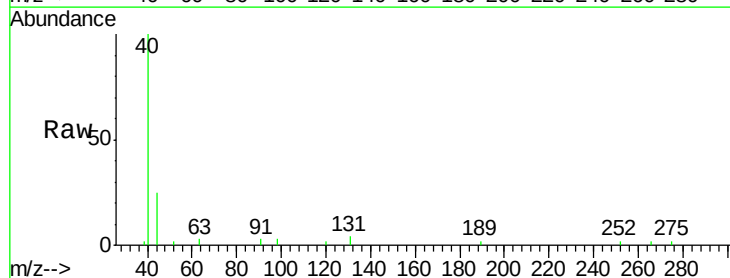
Acq: 21 Sep 2015 13:56

Tgt Ion: 63 Resp: 38

Ion Ratio Lower Upper

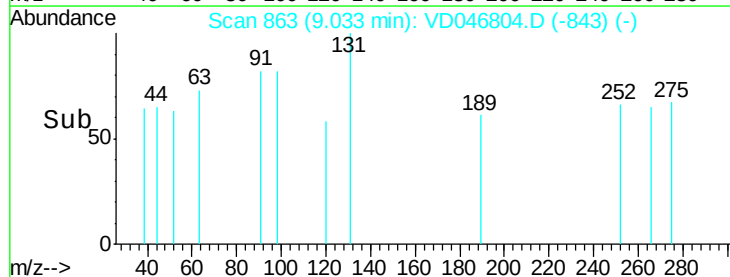
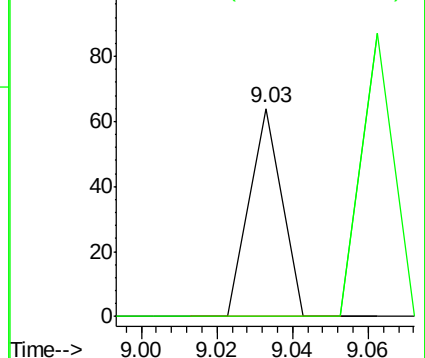
63 100

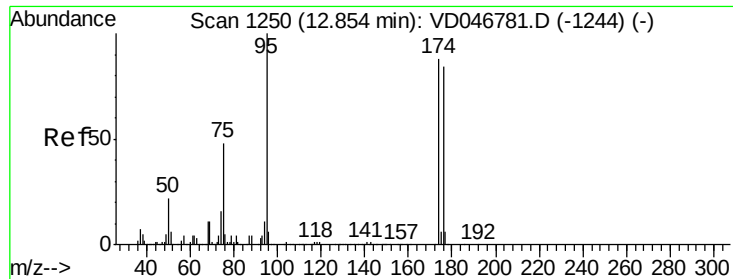
106 0.0 17.8 26.8#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

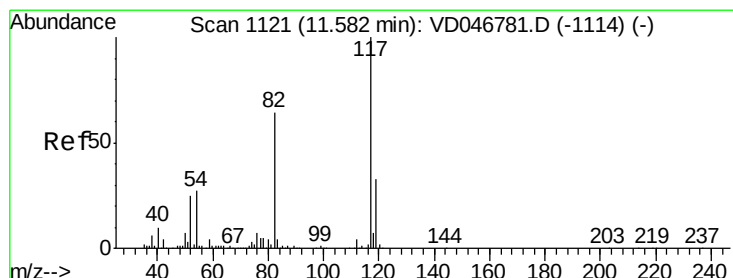
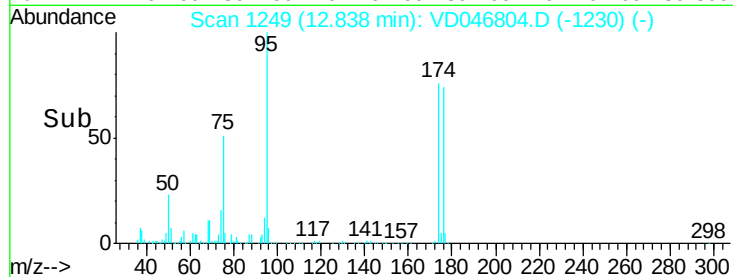
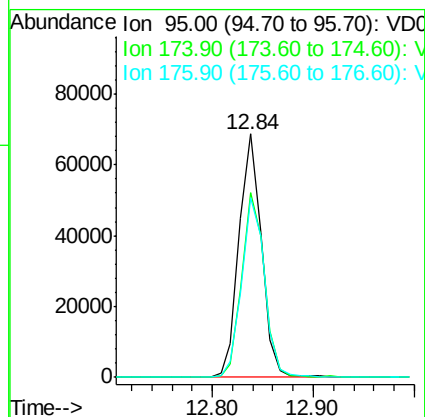
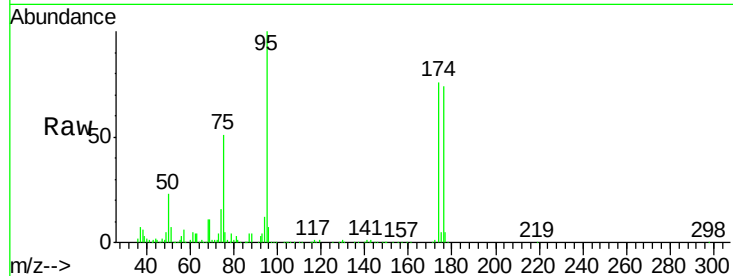




#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.84 min Scan# 1249
Delta R.T. -0.02 min
Lab File: VD046804.D
Acq: 21 Sep 2015 13:56

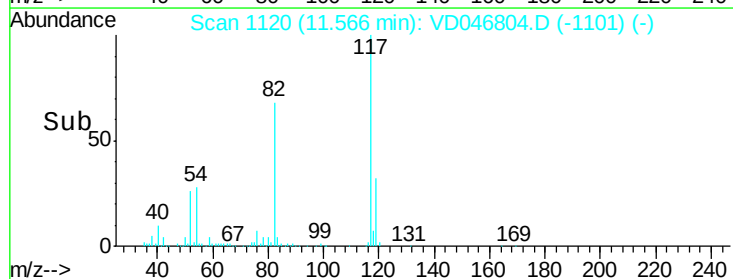
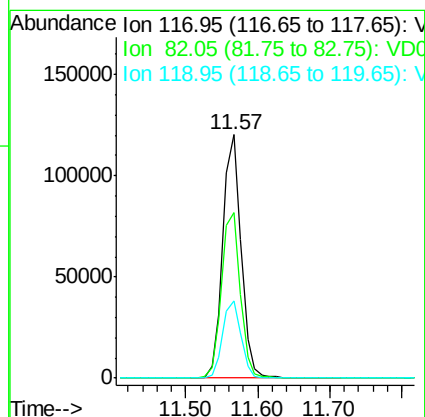
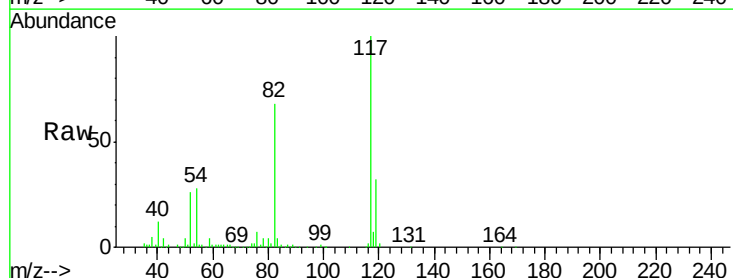
Instrument :
MSVOA_D
ClientSampleId :
TRENCH-1-1

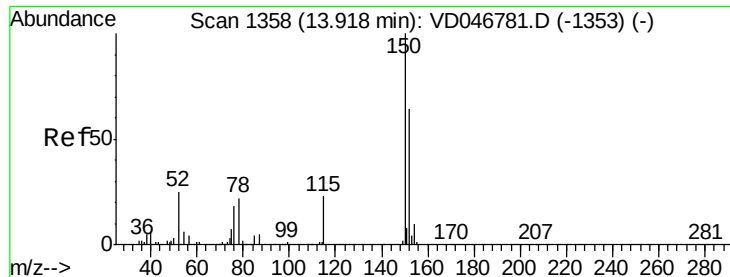
Tot Ion: 95 Resp: 106338
Ion Ratio Lower Upper
95 100
174 76.1 0.0 149.8
176 74.0 0.0 143.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. -0.02 min
Lab File: VD046804.D
Acq: 21 Sep 2015 13:56

Tgt Ion: 117 Resp: 210110
Ion Ratio Lower Upper
117 100
82 68.1 50.6 75.8
119 31.8 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.91 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-1

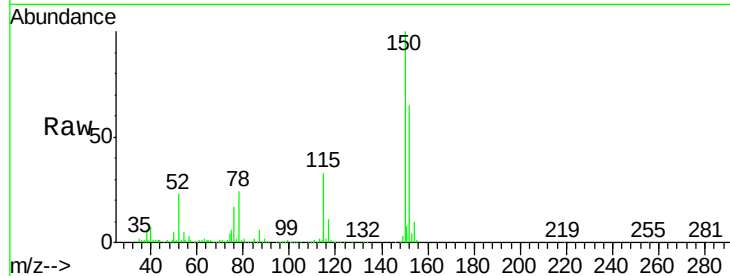
Tot Ion:152 Resp: 111210

Ion Ratio Lower Upper

152 100

115 49.9 26.2 78.6

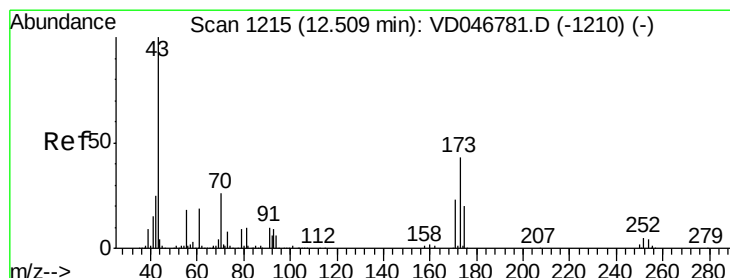
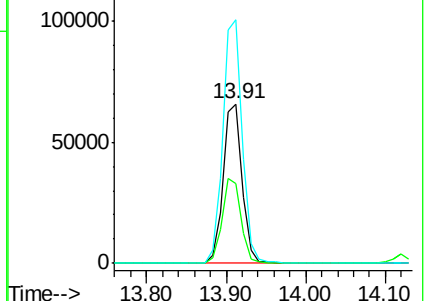
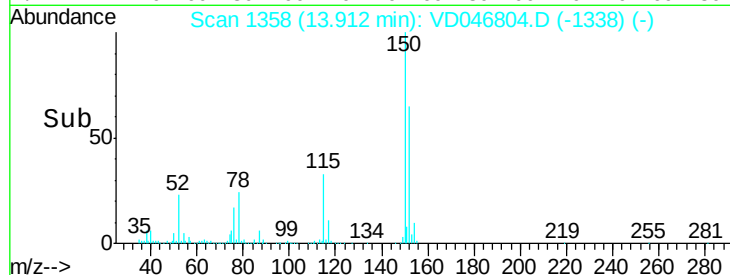
150 153.0 0.0 311.8



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-amil acetate

Concen: 4.75 ug/l

RT: 12.52 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Tgt Ion: 43 Resp: 81

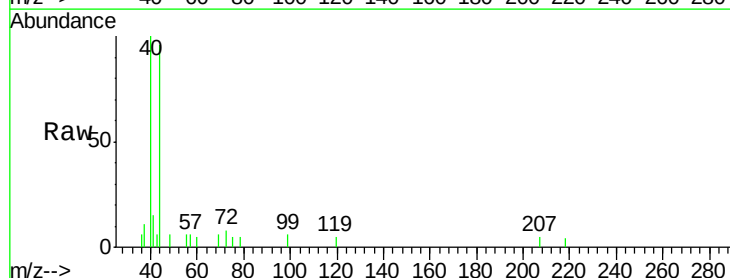
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 94.3 14.5 21.7#

61 0.0 14.6 21.8#

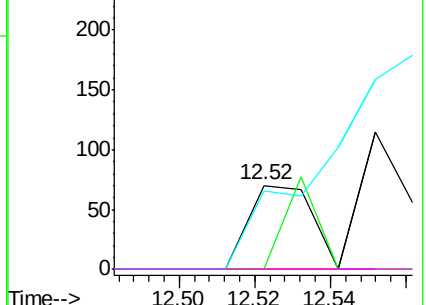
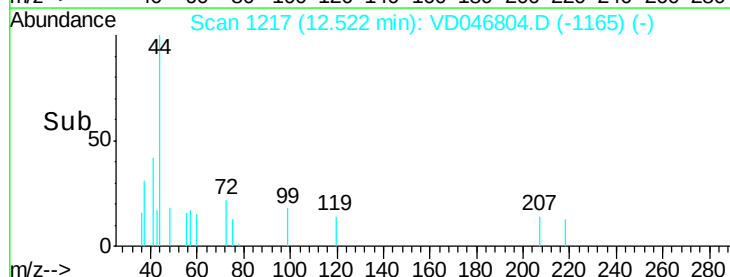


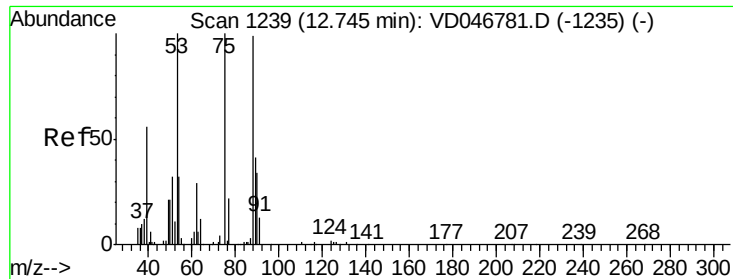
Abundance Ion 42.95 (42.65 to 43.65): VDC

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

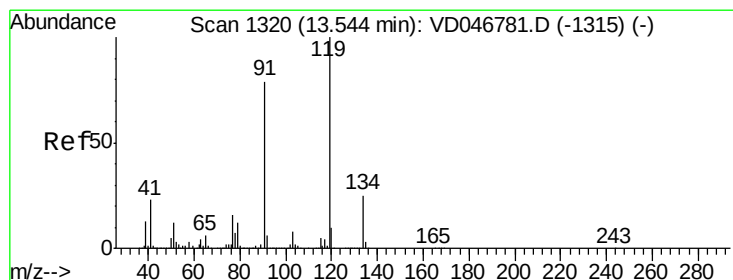
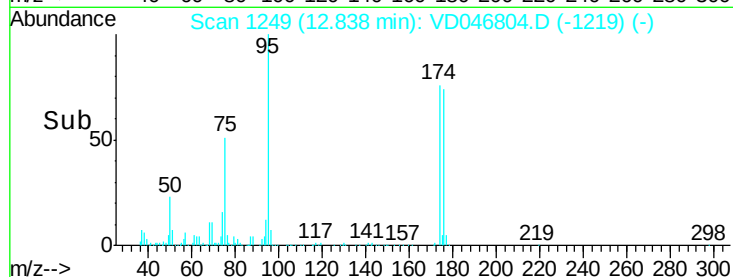
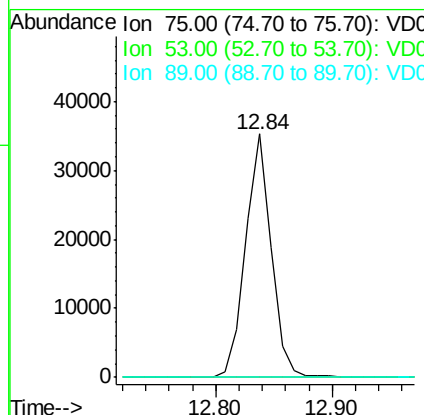
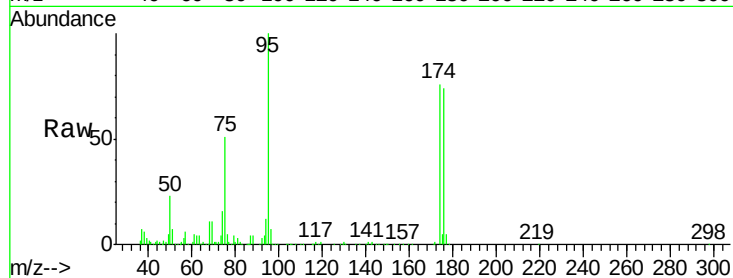




#81
 trans-1,4-Dichloro-2-butene
 Concen: 137.96 ug/l
 RT: 12.84 min Scan# 1249
 Delta R.T. 0.09 min
 Lab File: VD046804.D
 Acq: 21 Sep 2015 13:56

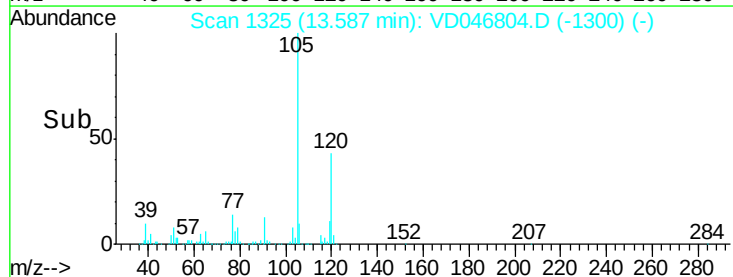
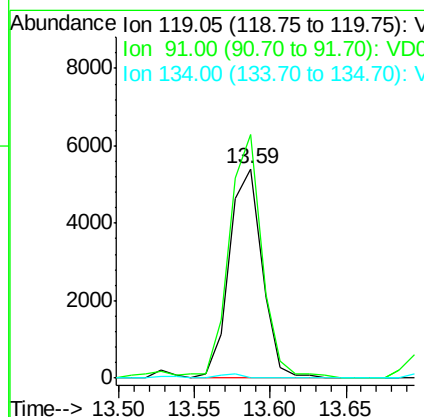
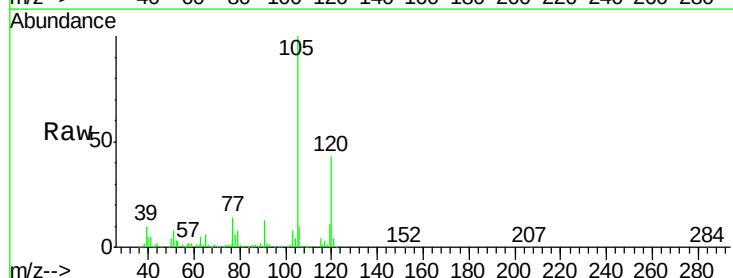
Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-1-1

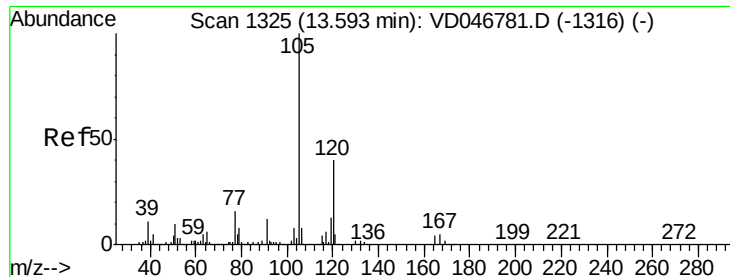
Tot Ion: 75 Resp: 54054
 Ion Ratio Lower Upper
 75 100
 53 0.3 82.3 123.5#
 89 0.0 36.6 54.8#



#83
 tert-Butylbenzene
 Concen: 1.45 ug/l
 RT: 13.59 min Scan# 1325
 Delta R.T. 0.04 min
 Lab File: VD046804.D
 Acq: 21 Sep 2015 13:56

Tgt Ion: 119 Resp: 8174
 Ion Ratio Lower Upper
 119 100
 91 116.3 41.6 124.9
 134 0.0 12.4 37.4#

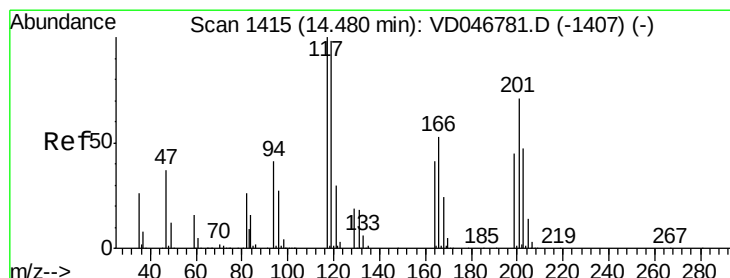
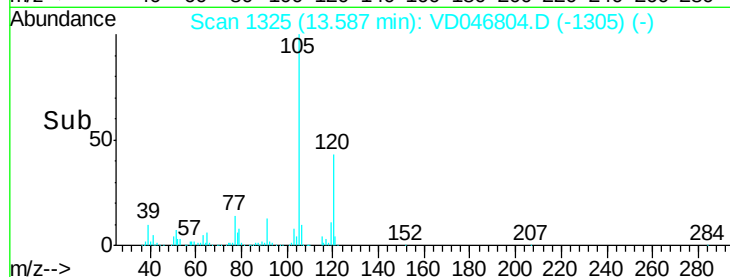
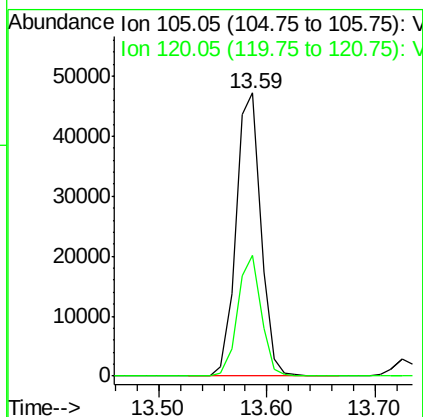
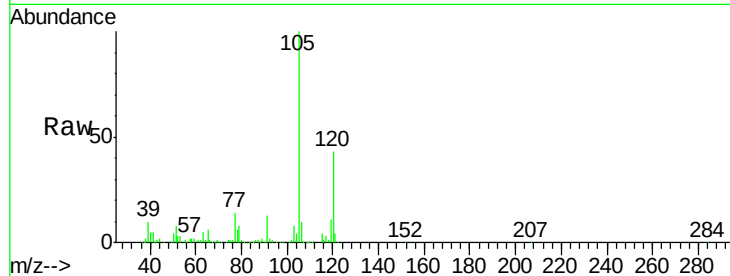




#84
 1,2,4-Trimethylbenzene
 Concen: 11.98 ug/l
 RT: 13.59 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: VD046804.D
 Acq: 21 Sep 2015 13:56

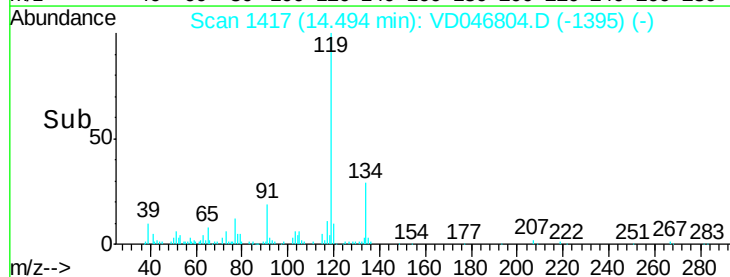
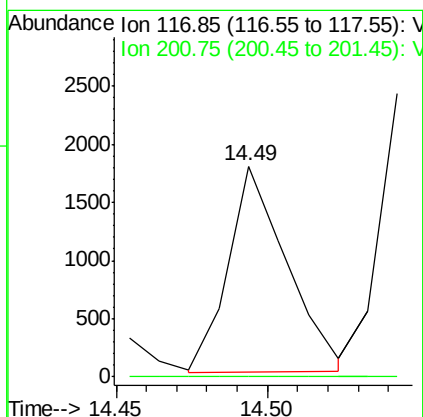
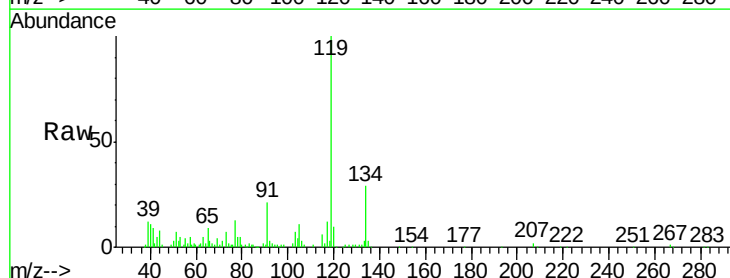
Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-1-1

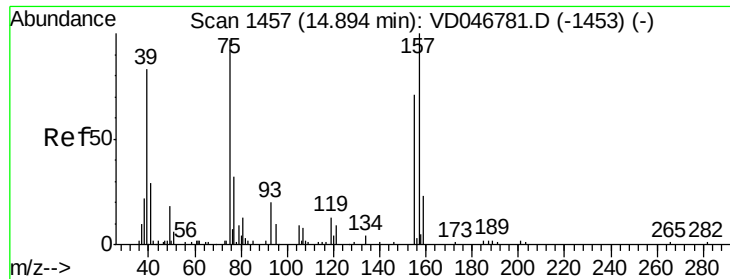
Tot Ion:105 Resp: 75337
 Ion Ratio Lower Upper
 105 100
 120 42.7 21.1 63.1



#90
 Hexachloroethane
 Concen: 1.59 ug/l
 RT: 14.49 min Scan# 1417
 Delta R.T. 0.01 min
 Lab File: VD046804.D
 Acq: 21 Sep 2015 13:56

Tgt Ion:117 Resp: 2393
 Ion Ratio Lower Upper
 117 100
 201 0.0 41.0 123.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.55 ug/l

RT: 14.87 min Scan# 1455

Delta R.T. -0.03 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-1

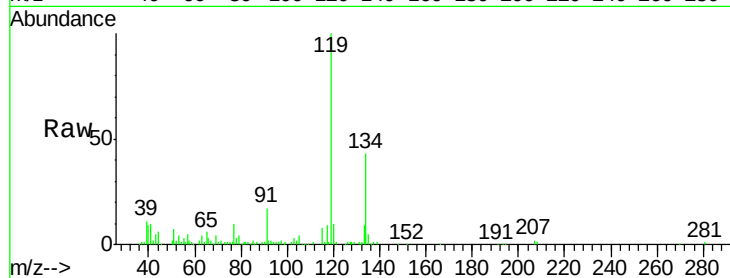
Tot Ion: 75 Resp: 415

Ion Ratio Lower Upper

75 100

155 0.0 41.4 124.4#

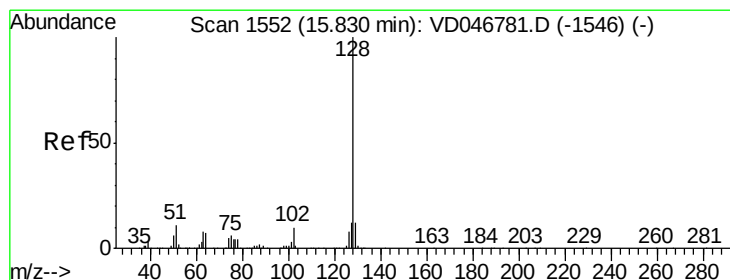
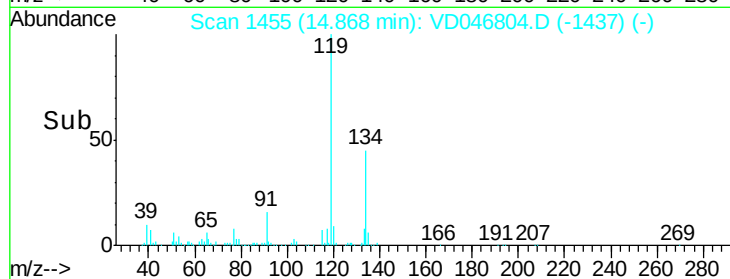
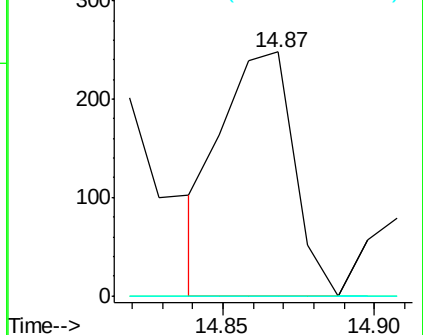
157 0.0 65.0 195.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#95

Naphthalene

Concen: 5.46 ug/l

RT: 15.81 min Scan# 1551

Delta R.T. -0.02 min

Lab File: VD046804.D

Acq: 21 Sep 2015 13:56

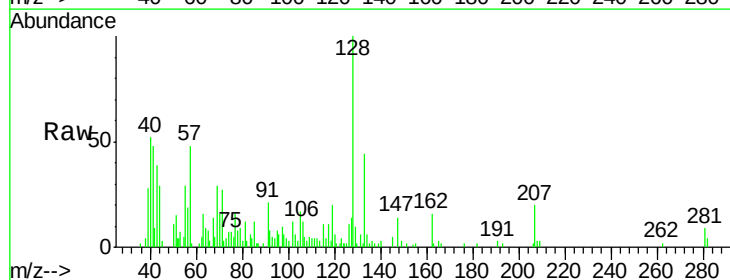
Tgt Ion: 128 Resp: 7632

Ion Ratio Lower Upper

128 100

127 13.9 9.8 14.6

129 10.2 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

