

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD091815\
 Data File : VD046792.D
 Acq On : 18 Sep 2015 20:12
 Operator : FY/SY
 Sample : G3707-03LOD 2ppb
 Misc : 5.00gm/5mL/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Quant Time: Sep 19 00:11:43 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	6.31	168	158335	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	223082	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	209747	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.92	152	108506	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.72	65	99620	60.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.02%	
35) Dibromofluoromethane	6.21	113	99301	56.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.78%	
50) Toluene-d8	9.62	98	302502	54.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.88%	
62) 4-Bromofluorobenzene	12.85	95	117270	52.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.78%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.42	85	5548	Below Cal		91
3) Chlorodifluoromethane	1.43	51	4964	Below Cal	#	88
4) Chloromethane	1.58	50	2647	2.84	ug/l	90
5) Vinyl Chloride	1.68	62	2479	2.83	ug/l	94
7) Chloroethane	2.08	64	1790	3.26	ug/l	# 70
8) Trichlorofluoromethane	2.33	101	7108	2.74	ug/l	# 82
9) Diethyl Ether	2.64	74	885	1.93	ug/l	86
10) 1,1,2-Trichlorotrifluoroet	2.89	101	3996	2.46	ug/l	# 81
11) Methyl Iodide	3.05	142	2089	2.80	ug/l	98
12) Tert butyl alcohol	3.66	59	2599	Below Cal	#	74
13) 1,1-Dichloroethene	2.88	96	2975	2.35	ug/l	92
14) Acrolein	2.78	56	750	8.92	ug/l	87
15) Allyl chloride	3.34	41	4983	1.93	ug/l	# 79
16) Acrylonitrile	3.85	53	1875	9.75	ug/l	# 89
17) Acetone	2.95	43	3612	12.99	ug/l	100
18) Carbon Disulfide	3.13	76	11562	2.43	ug/l	97
19) Methyl Acetate	3.35	43	4058	2.52	ug/l	97
20) Methyl tert-butyl Ether	3.90	73	3497	1.76	ug/l	# 89
21) Methylene Chloride	3.51	84	7028	4.65	ug/l	91
22) trans-1,2-Dichloroethene	3.90	96	3259	2.28	ug/l	# 79
23) Diisopropyl ether	4.65	45	6986	1.63	ug/l	# 82
24) Vinyl Acetate	4.61	43	5472	20.12	ug/l	98
25) 1,1-Dichloroethane	4.56	63	5642	2.14	ug/l	# 94
26) 2-Butanone	5.46	43	3969	12.70	ug/l	97
27) 2,2-Dichloropropane	5.42	77	6733	2.49	ug/l	99
28) cis-1,2-Dichloroethene	5.44	96	3291	2.21	ug/l	93
29) Bromochloromethane	5.80	49	2595	2.50	ug/l	97
30) Chloroform	5.98	83	8155	2.55	ug/l	# 81
31) Cyclohexane	6.29	56	8366	3.39	ug/l	# 35
32) 1,1,1-Trichloroethane	6.17	97	6605	2.32	ug/l	93
36) 1,1-Dichloropropene	6.44	75	5199	1.99	ug/l	89
37) Ethyl Acetate	5.55	43	3053	3.65	ug/l	# 96
38) Carbon Tetrachloride	6.41	117	6140	2.27	ug/l	# 91
39) Methylcyclohexane	8.09	83	4229	1.60	ug/l	# 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	6.73	78	14767	2.22	ug/l	94
41) Methacrylonitrile	5.77	41	921	1.96	ug/l #	90
42) 1,2-Dichloroethane	6.84	62	4971	2.40	ug/l	90
43) Isopropyl Acetate	8.41	43	1799	1.63	ug/l #	72
44) Trichloroethene	7.74	130	3503	2.10	ug/l	82
45) 1,2-Dichloropropane	8.15	63	3386	2.05	ug/l	98
46) Dibromomethane	8.27	93	1853	1.98	ug/l	88
47) Bromodichloromethane	8.56	83	5357	2.18	ug/l	92
48) Methyl methacrylate	8.08	41	2535	1.50	ug/l #	68
49) 1,4-Dioxane	8.29	88	119	19.06	ug/l #	73
51) 4-Methyl-2-Pentanone	9.49	43	5922	7.42	ug/l #	84
52) Toluene	9.72	92	9093	2.21	ug/l	93
53) t-1,3-Dichloropropene	10.12	75	3122	1.72	ug/l	92
54) cis-1,3-Dichloropropene	9.23	75	3690	1.58	ug/l	96
55) 1,1,2-Trichloroethane	10.40	97	2832	2.66	ug/l #	82
56) Ethyl methacrylate	10.25	69	1555	5.17	ug/l	96
57) 1,3-Dichloropropane	10.61	76	3885	1.97	ug/l #	87
58) 2-Chloroethyl Vinyl ether	9.03	63	2938	11.79	ug/l	97
59) 2-Hexanone	10.72	43	4132	7.17	ug/l	83
60) Dibromochloromethane	10.89	129	2837	1.94	ug/l	90
61) 1,2-Dibromoethane	11.02	107	2044	1.95	ug/l #	72
64) Tetrachloroethene	10.47	164	3523	2.08	ug/l	90
65) Chlorobenzene	11.61	112	9042	2.05	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.72	131	3514	2.17	ug/l	96
67) Ethyl Benzene	11.73	91	15521	1.75	ug/l	99
68) m/p-Xylenes	11.88	106	9243	3.30	ug/l	99
69) o-Xylene	12.29	106	3476	1.38	ug/l	94
70) Styrene	12.32	104	6066	1.39	ug/l	90
71) Bromoform	12.50	173	1563	1.81	ug/l #	78
73) Isopropylbenzene	12.67	105	10564	1.38	ug/l	95
74) N-amyl acetate	12.50	43	2515	5.90	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	12.99	83	2541	2.06	ug/l	80
76) 1,2,3-Trichloropropane	13.04	75	2758	2.09	ug/l	76
77) Bromobenzene	12.98	156	3998	2.08	ug/l	90
78) n-propylbenzene	13.07	91	17923	1.66	ug/l	89
79) 2-Chlorotoluene	13.16	91	11137	1.86	ug/l	99
80) 1,3,5-Trimethylbenzene	13.25	105	9236	1.52	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.85	75	61260	159.64	ug/l #	9
82) 4-Chlorotoluene	13.27	91	12587	1.76	ug/l	94
83) tert-Butylbenzene	13.54	119	9996	1.82	ug/l	91
84) 1,2,4-Trimethylbenzene	13.59	105	9600	1.56	ug/l	92
85) sec-Butylbenzene	13.74	105	11961	1.48	ug/l	95
86) p-Isopropyltoluene	13.87	119	9566	1.51	ug/l	94
87) 1,3-Dichlorobenzene	13.84	146	7691	2.14	ug/l	95
88) 1,4-Dichlorobenzene	13.94	146	8379	2.35	ug/l	93
89) n-Butylbenzene	14.22	91	10698	1.49	ug/l	97
90) Hexachloroethane	14.48	117	3017	2.05	ug/l	90
91) 1,2-Dichlorobenzene	14.25	146	5977	1.98	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.90	75	470	2.96	ug/l #	51
93) 1,2,4-Trichlorobenzene	15.58	180	3074	1.77	ug/l	77

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QLast Update : Fri Sep 18 15:47:18 2015
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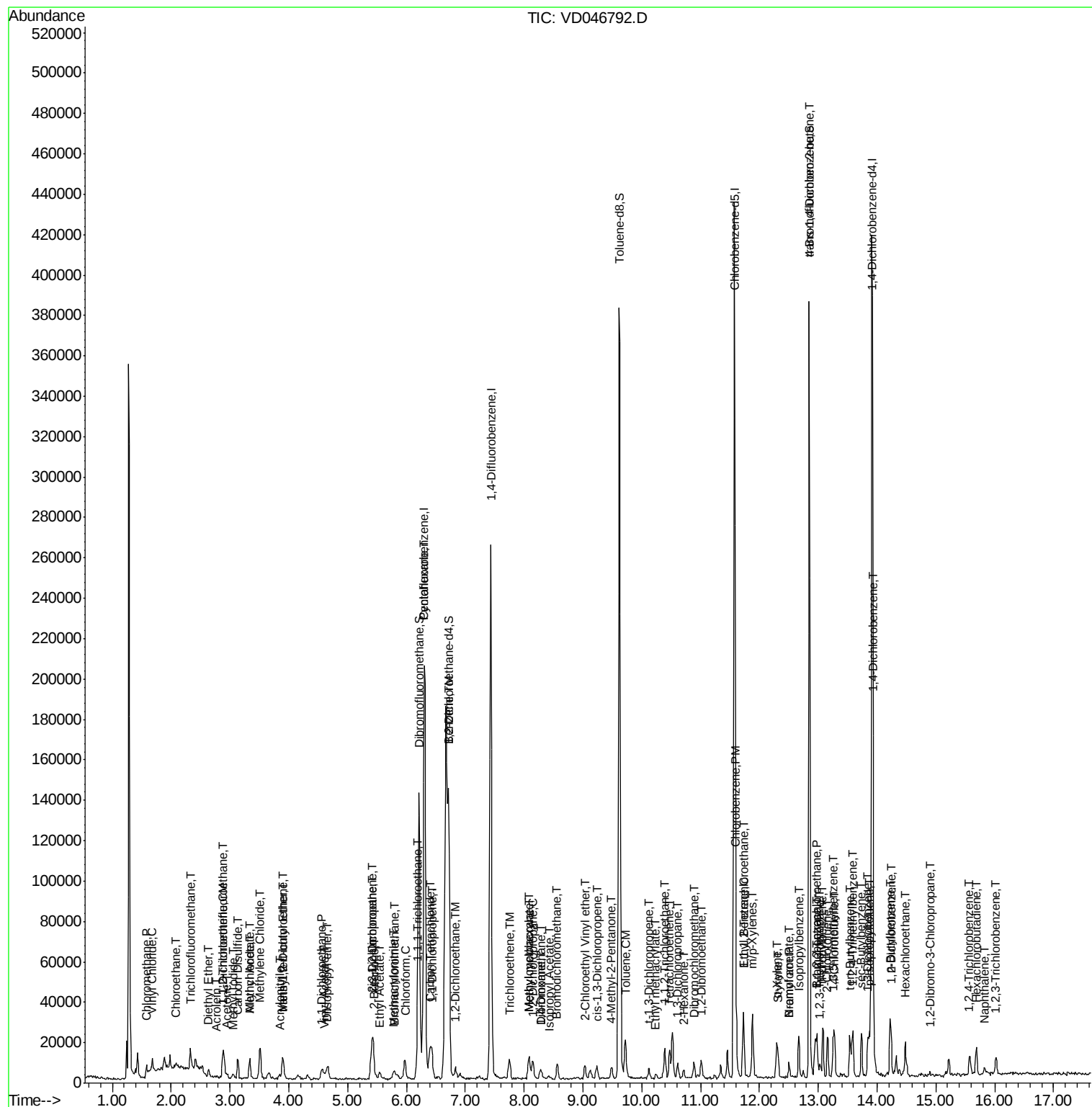
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.70	225	3140	2.20	ug/l	89
95) Naphthalene	15.82	128	2951	3.60	ug/l #	94
96) 1,2,3-Trichlorobenzene	16.02	180	2981	2.06	ug/l	79

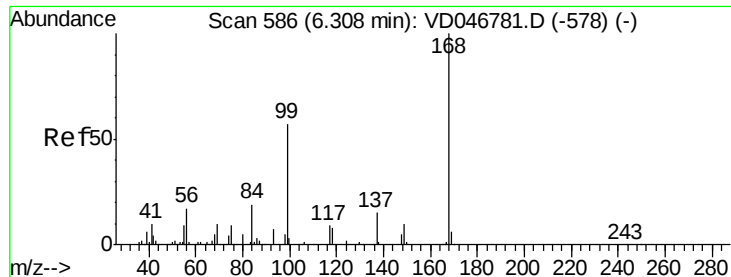
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.31 min Scan# 587

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

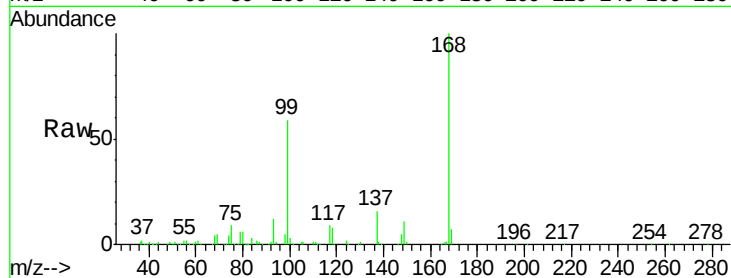
LOD-SOIL2015-01

Tgt Ion:168 Resp: 158335

Ion Ratio Lower Upper

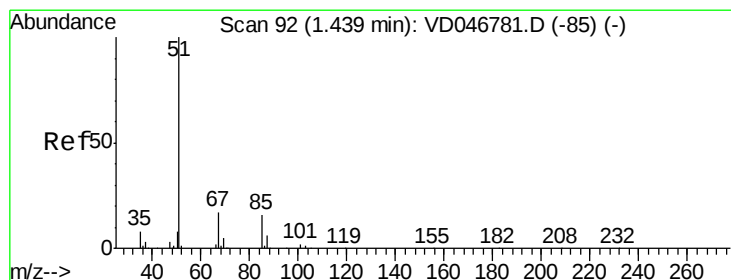
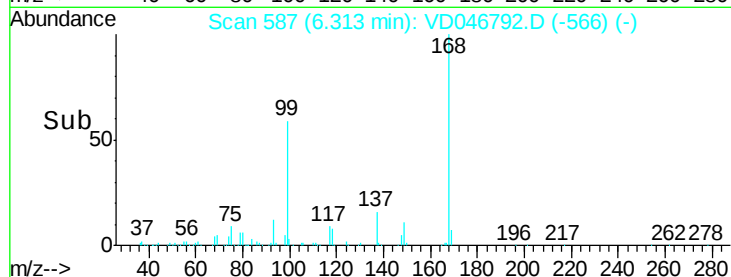
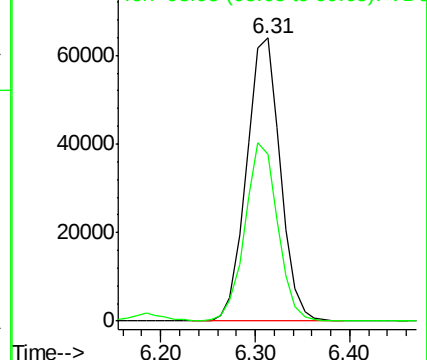
168 100

99 59.1 42.4 63.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.43 min Scan# 92

Delta R.T. -0.00 min

Lab File: VD046792.D

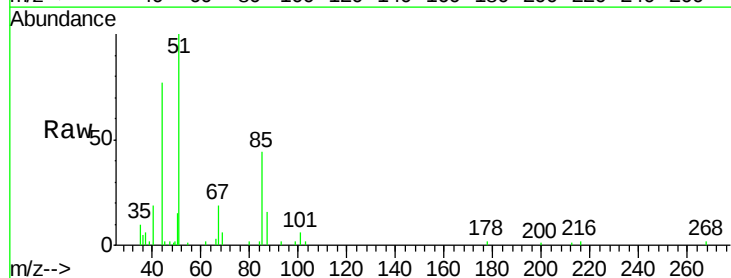
Acq: 18 Sep 2015 20:12

Tgt Ion: 51 Resp: 4964

Ion Ratio Lower Upper

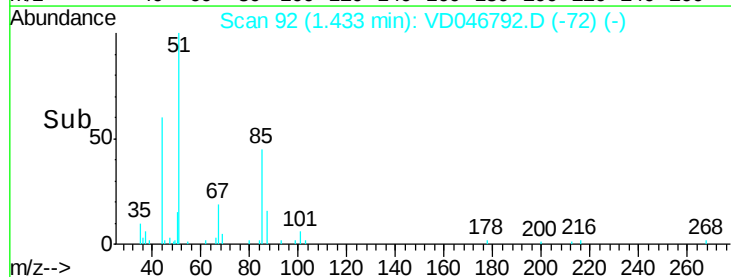
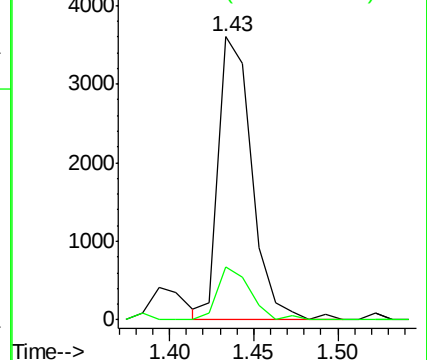
51 100

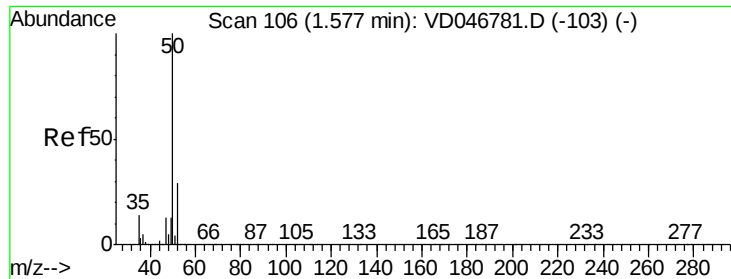
67 18.4 10.9 16.3#



Abundance Ion 51.00 (50.70 to 51.70): VDC

Ion 67.00 (66.70 to 67.70): VDC





#4

Chloromethane

Concen: 2.84 ug/l

RT: 1.58 min Scan# 107

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

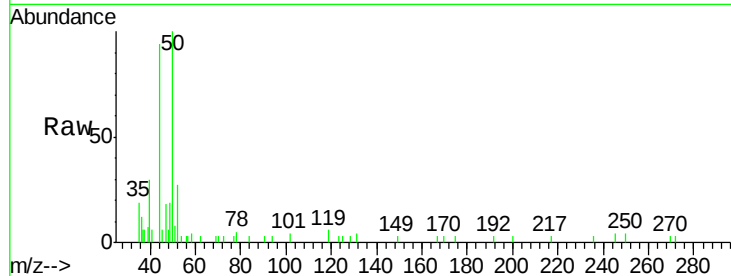
LOD-SOIL2015-01

Tgt Ion: 50 Resp: 2647

Ion Ratio Lower Upper

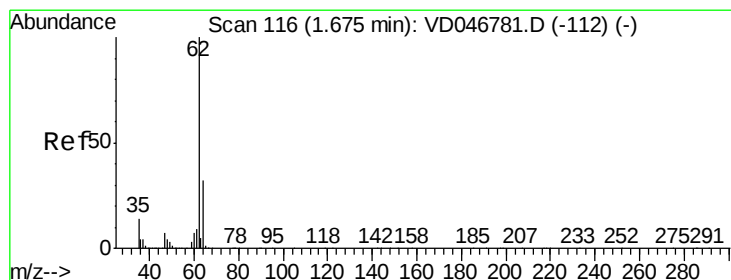
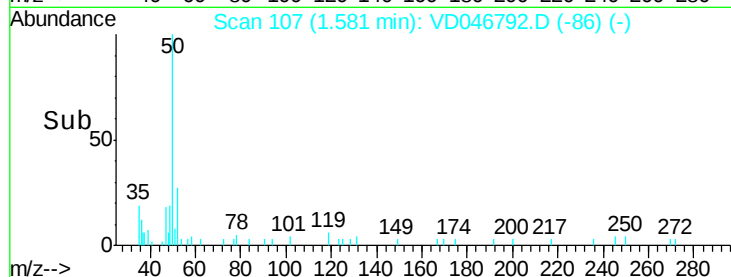
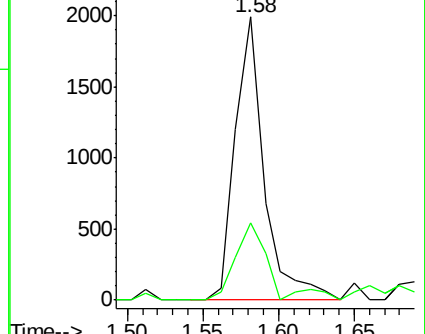
50 100

52 27.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Vinyl Chloride

Concen: 2.83 ug/l

RT: 1.68 min Scan# 117

Delta R.T. 0.00 min

Lab File: VD046792.D

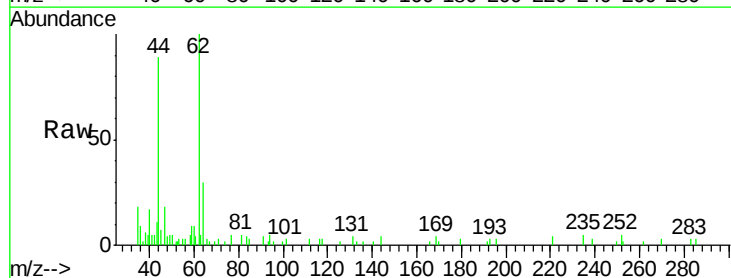
Acq: 18 Sep 2015 20:12

Tgt Ion: 62 Resp: 2479

Ion Ratio Lower Upper

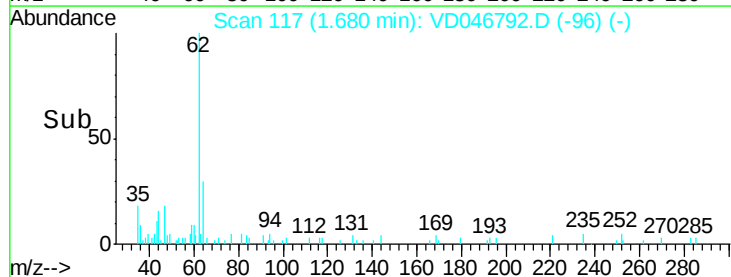
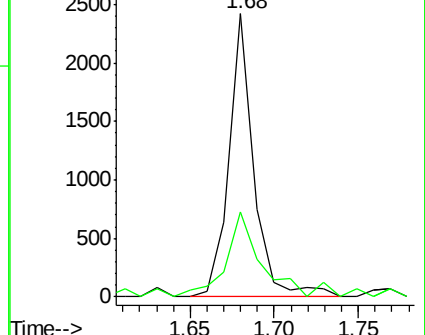
62 100

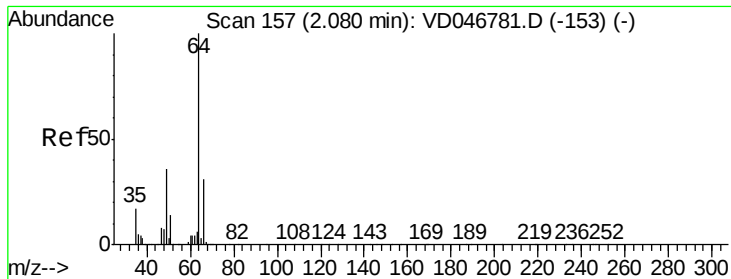
64 29.8 26.4 39.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#7

Chloroethane

Concen: 3.26 ug/l

RT: 2.08 min Scan# 158

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

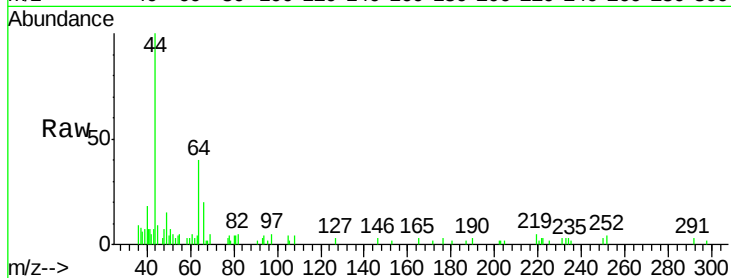
LOD-SOIL2015-01

Tgt Ion: 64 Resp: 1790

Ion Ratio Lower Upper

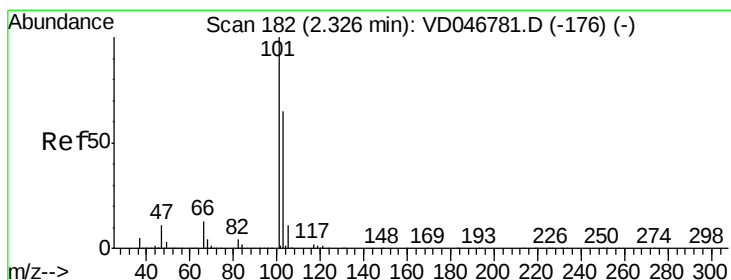
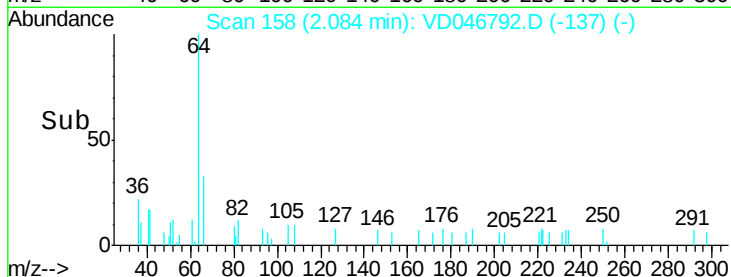
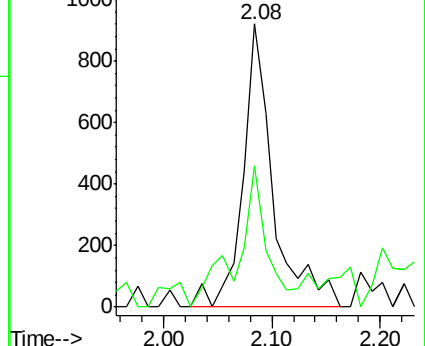
64 100

66 49.9 26.6 39.8#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Trichlorofluoromethane

Concen: 2.74 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD046792.D

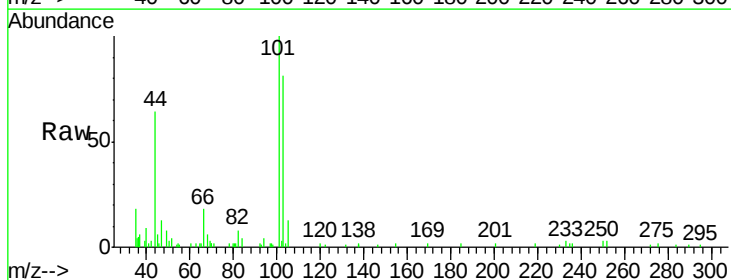
Acq: 18 Sep 2015 20:12

Tgt Ion: 101 Resp: 7108

Ion Ratio Lower Upper

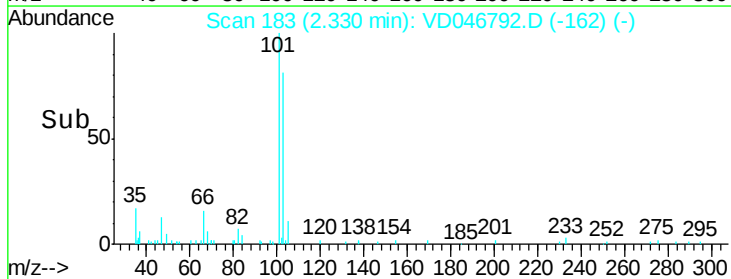
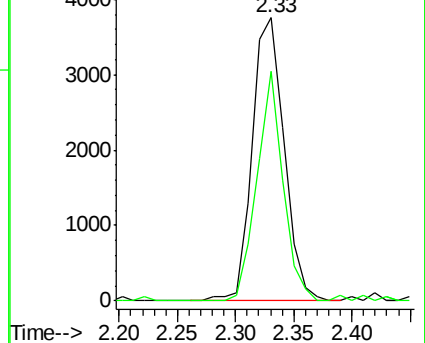
101 100

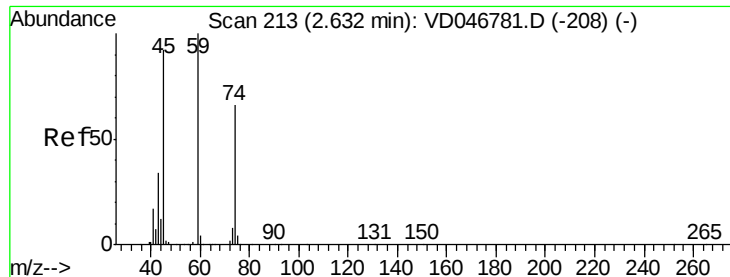
103 81.1 53.2 79.8#



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V





#9

Diethyl Ether

Concen: 1.93 ug/l

RT: 2.64 min Scan# 214

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

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ClientSampleId :

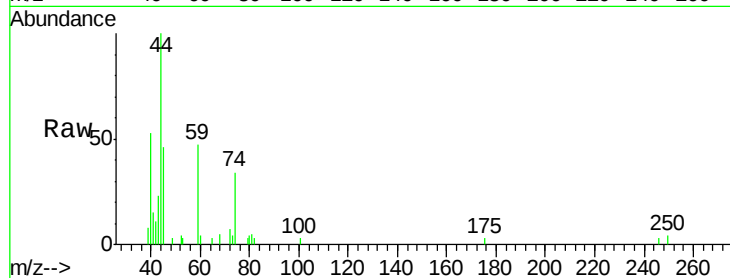
LOD-SOIL2015-01

Tgt Ion: 74 Resp: 885

Ion Ratio Lower Upper

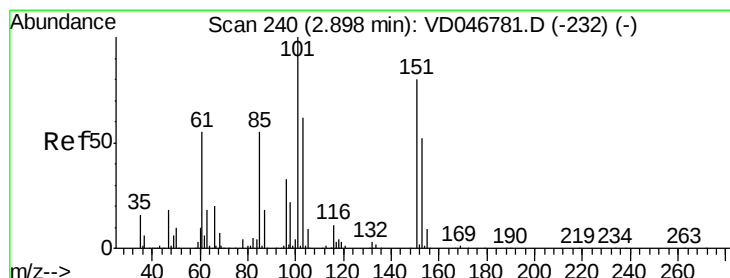
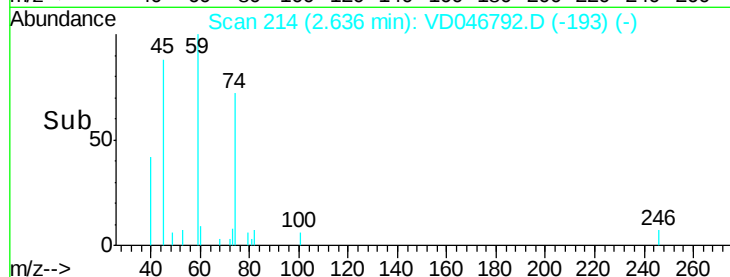
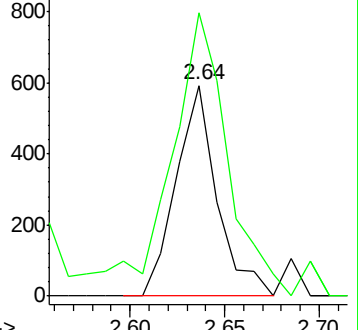
74 100

45 134.5 76.2 228.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#10

1,1,2-Trichlorotrifluoroethane

Concen: 2.46 ug/l

RT: 2.89 min Scan# 240

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

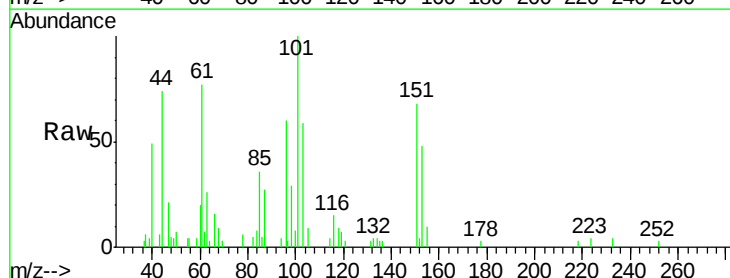
Tgt Ion: 101 Resp: 3996

Ion Ratio Lower Upper

101 100

85 35.6 42.0 63.0#

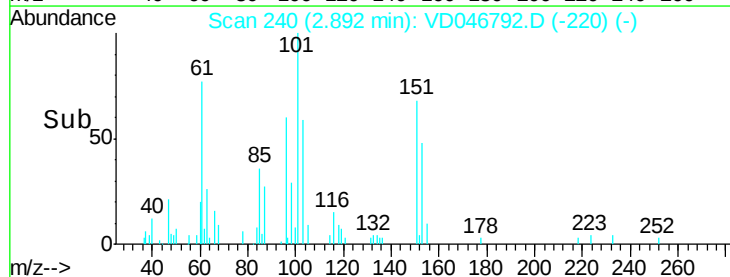
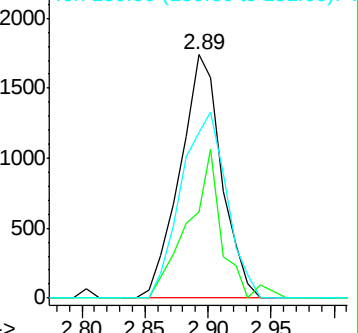
151 68.0 65.2 97.8

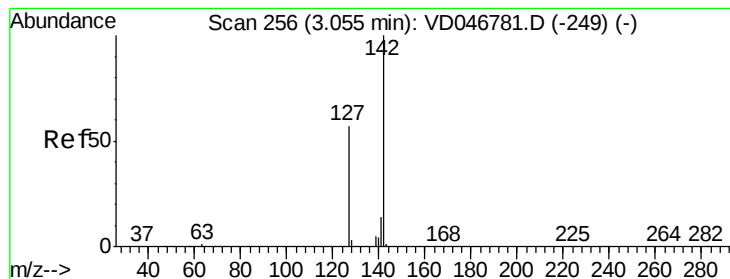


Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): VDC

Ion 150.90 (150.60 to 151.60): V





#11

Methyl Iodide

Concen: 2.80 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

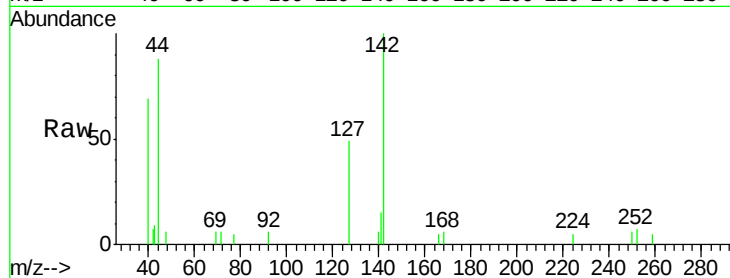
Tgt Ion:142 Resp: 2089

Ion Ratio Lower Upper

142 100

127 49.4 41.2 61.8

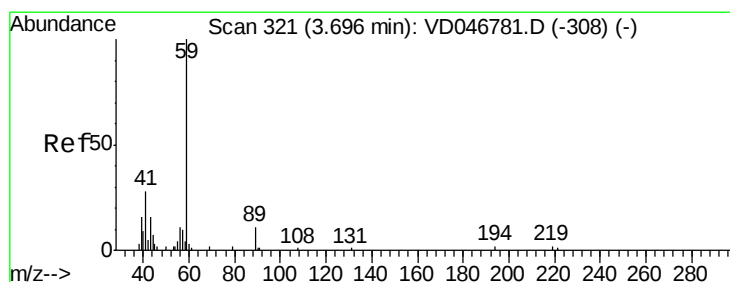
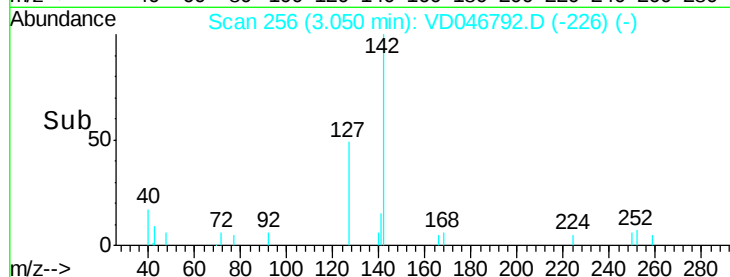
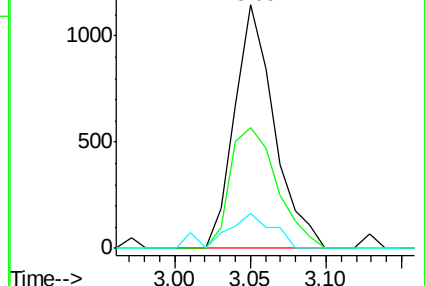
141 14.6 11.6 17.4



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: VD046792.D

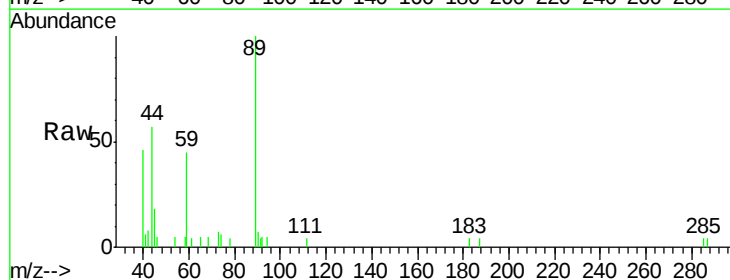
Acq: 18 Sep 2015 20:12

Tgt Ion: 59 Resp: 2599

Ion Ratio Lower Upper

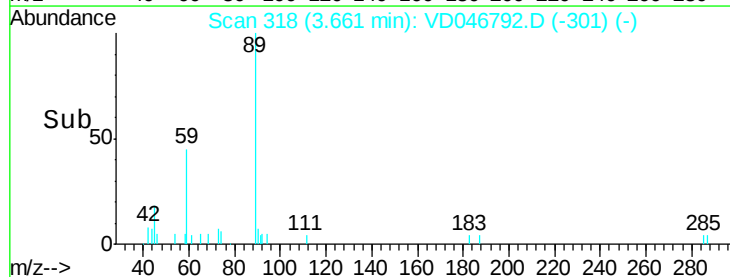
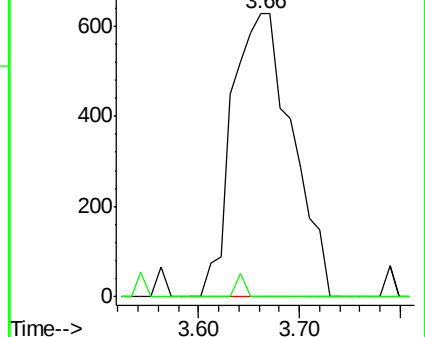
59 100

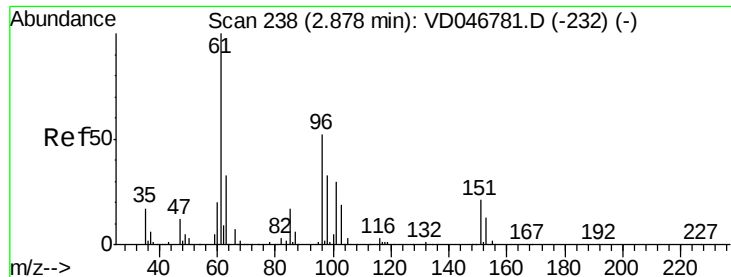
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): V

Ion 56.95 (56.65 to 57.65): V





#13

1,1-Dichloroethene

Concen: 2.35 ug/l

RT: 2.88 min Scan# 239

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

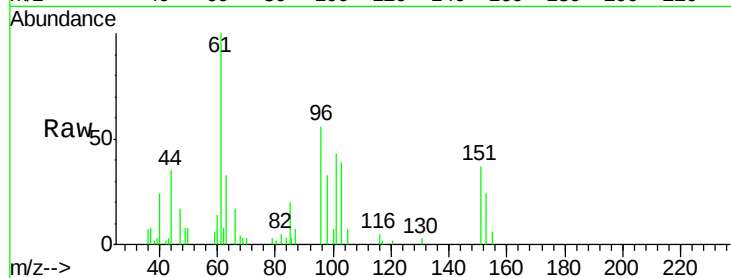
Tgt Ion: 96 Resp: 2975

Ion Ratio Lower Upper

96 100

61 177.3 152.2 228.4

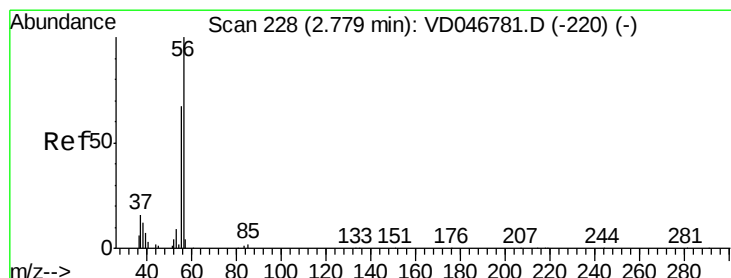
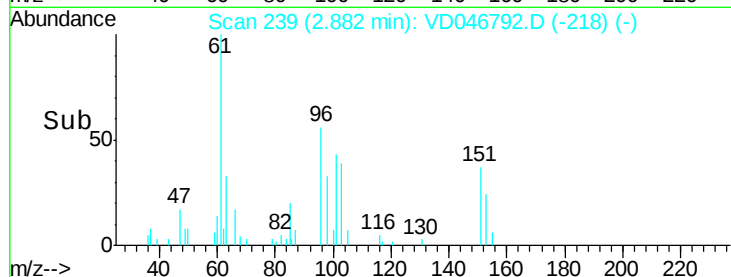
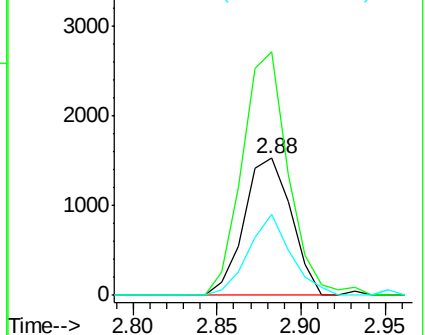
98 58.7 51.2 76.8



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#14

Acrolein

Concen: 8.92 ug/l

RT: 2.78 min Scan# 229

Delta R.T. 0.00 min

Lab File: VD046792.D

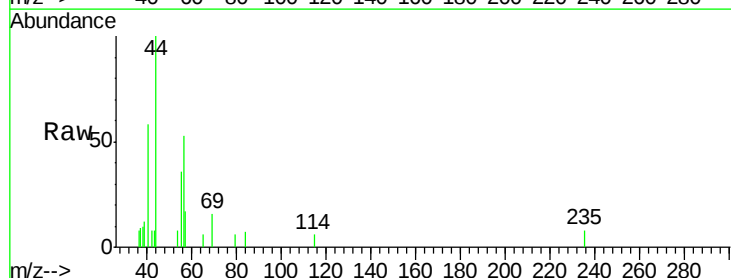
Acq: 18 Sep 2015 20:12

Tgt Ion: 56 Resp: 750

Ion Ratio Lower Upper

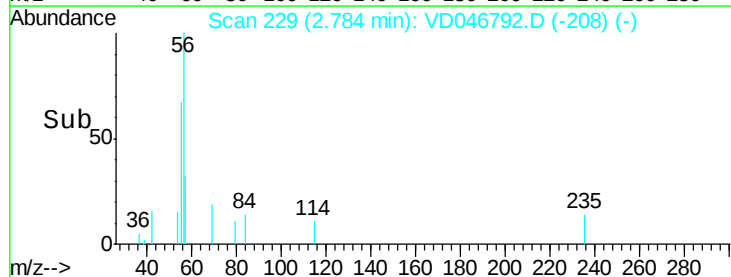
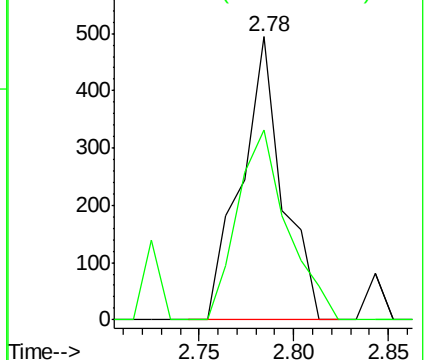
56 100

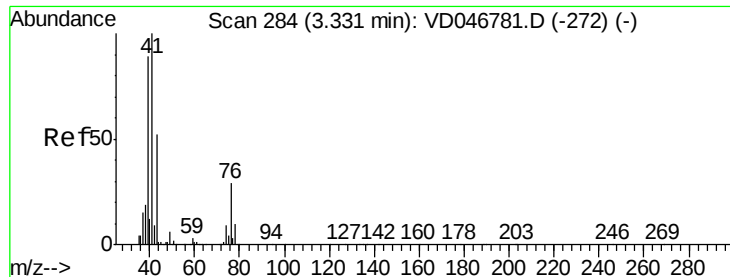
55 67.0 62.6 93.8



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

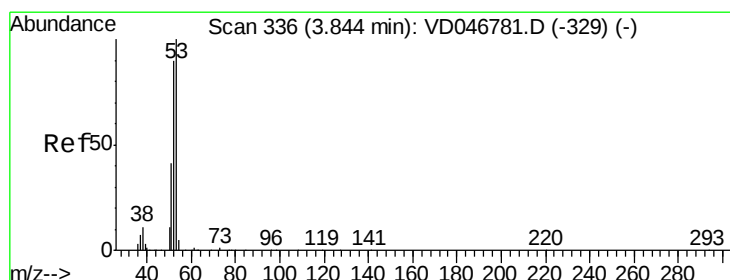
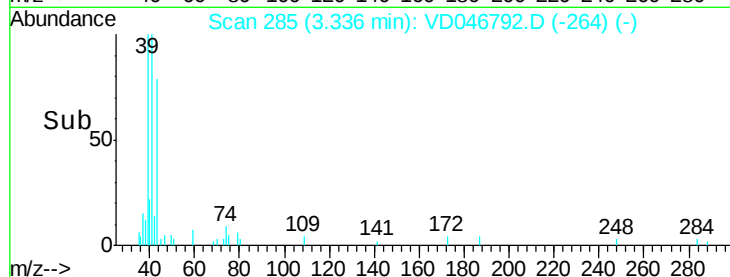
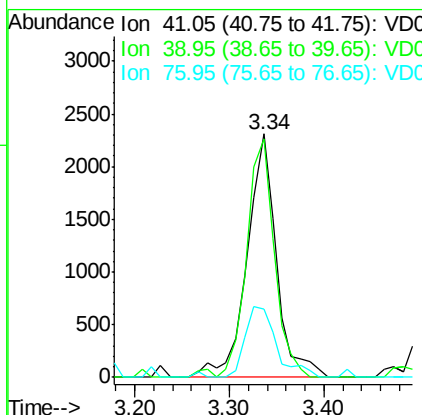
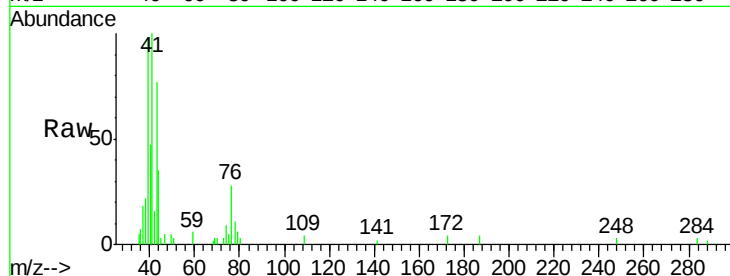




#15
 Allyl chloride
 Concen: 1.93 ug/l
 RT: 3.34 min Scan# 285
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

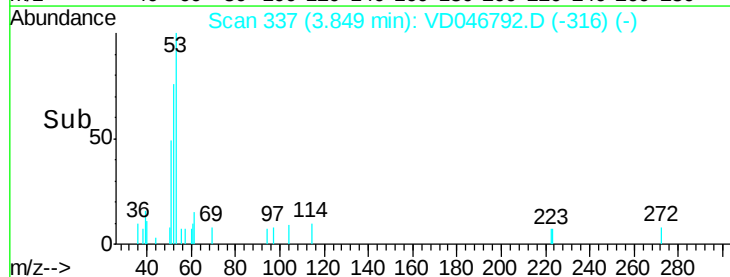
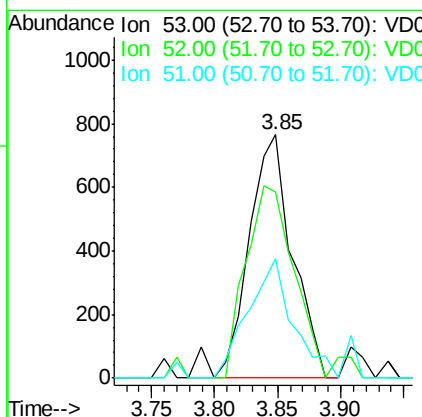
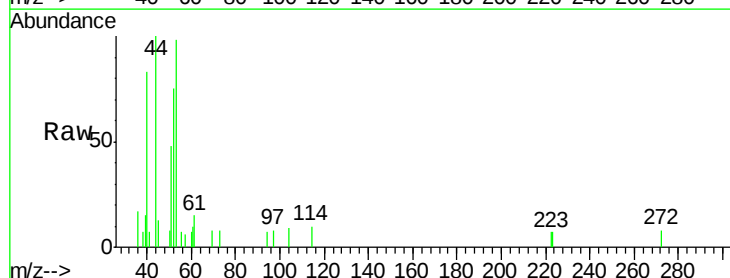
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

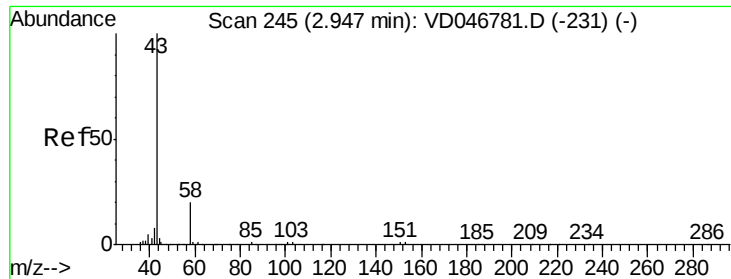
Tgt Ion: 41 Resp: 4983
 Ion Ratio Lower Upper
 41 100
 39 97.8 58.8 88.2#
 76 27.8 22.7 34.1



#16
 Acrylonitrile
 Concen: 9.75 ug/l
 RT: 3.85 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion: 53 Resp: 1875
 Ion Ratio Lower Upper
 53 100
 52 76.2 66.8 100.2
 51 48.8 31.2 46.8#





#17

Acetone

Concen: 12.99 ug/l

RT: 2.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

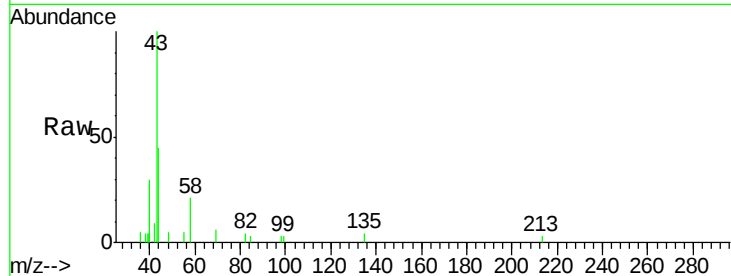
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 3612

Ion Ratio Lower Upper

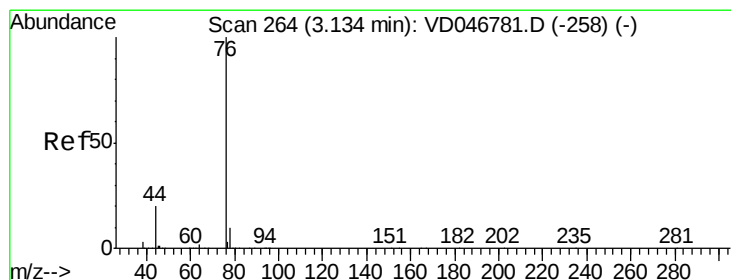
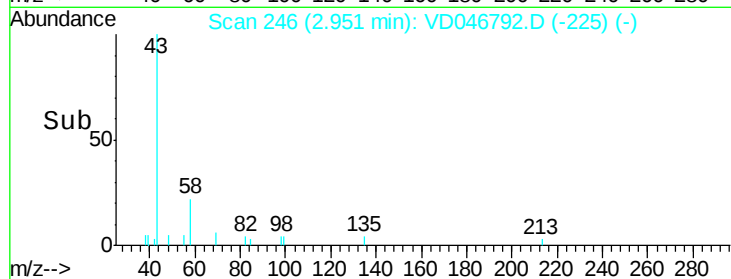
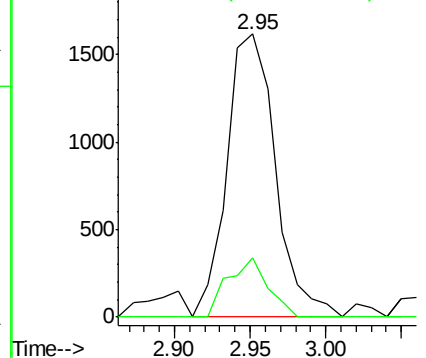
43 100

58 20.8 16.6 24.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Carbon Disulfide

Concen: 2.43 ug/l

RT: 3.13 min Scan# 264

Delta R.T. -0.01 min

Lab File: VD046792.D

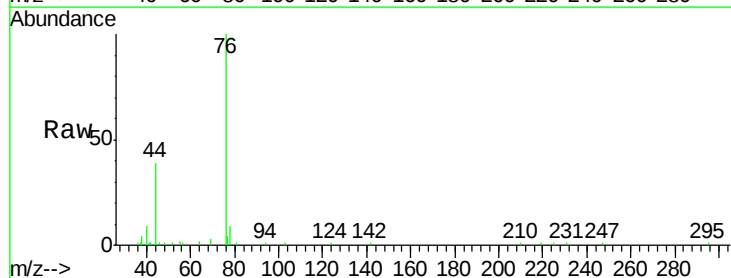
Acq: 18 Sep 2015 20:12

Tgt Ion: 76 Resp: 11562

Ion Ratio Lower Upper

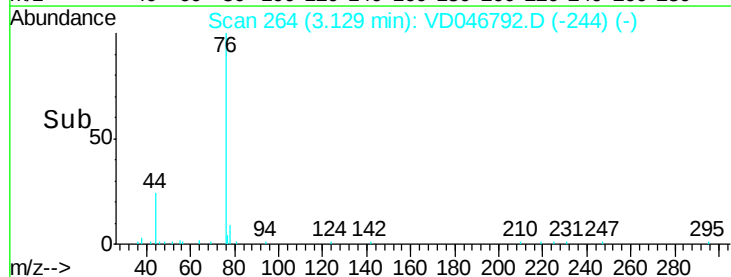
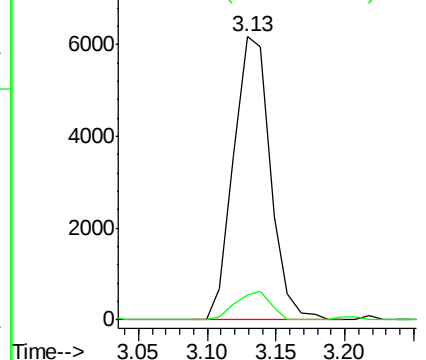
76 100

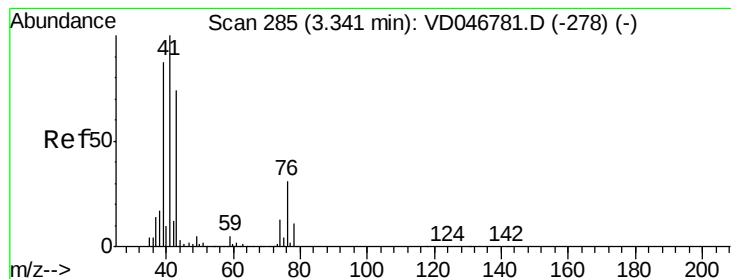
78 8.9 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC





#19

Methyl Acetate

Concen: 2.52 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

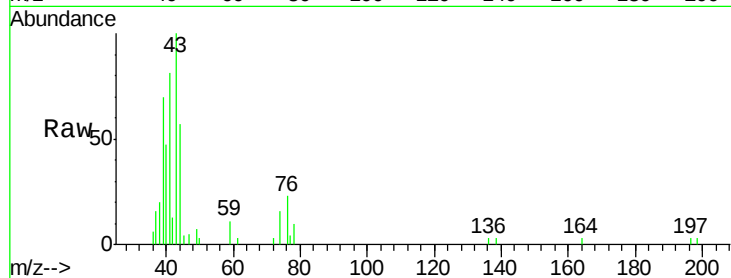
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 4058

Ion Ratio Lower Upper

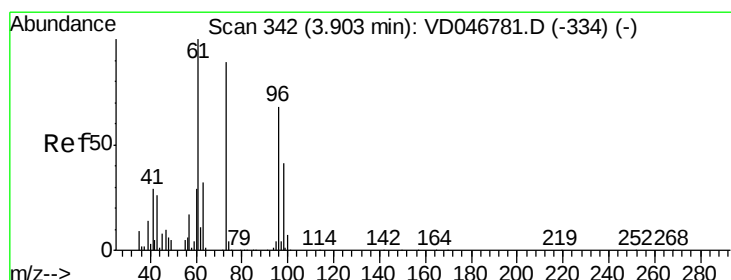
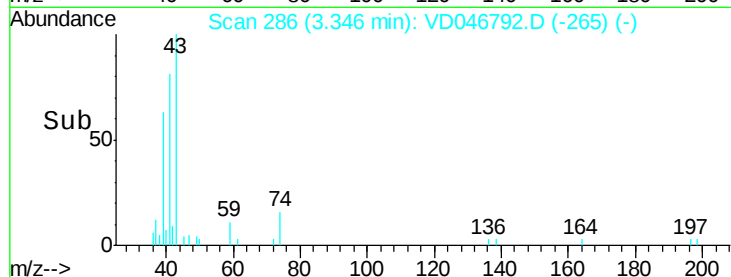
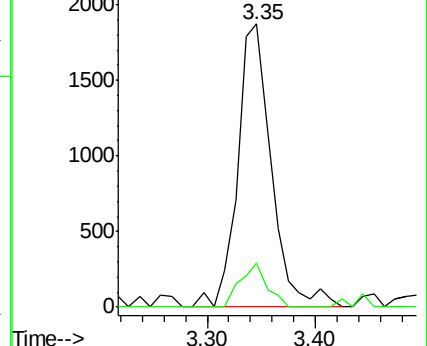
43 100

74 15.6 13.7 20.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



#20

Methyl tert-butyl Ether

Concen: 1.76 ug/l

RT: 3.90 min Scan# 342

Delta R.T. -0.01 min

Lab File: VD046792.D

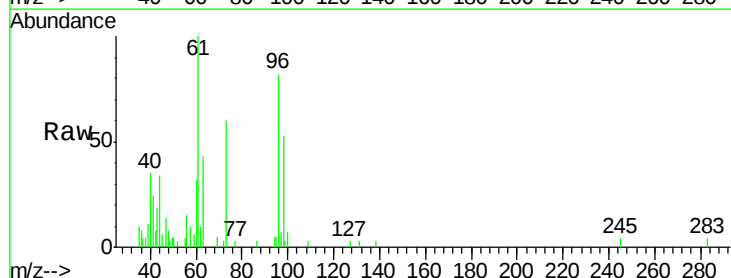
Acq: 18 Sep 2015 20:12

Tgt Ion: 73 Resp: 3497

Ion Ratio Lower Upper

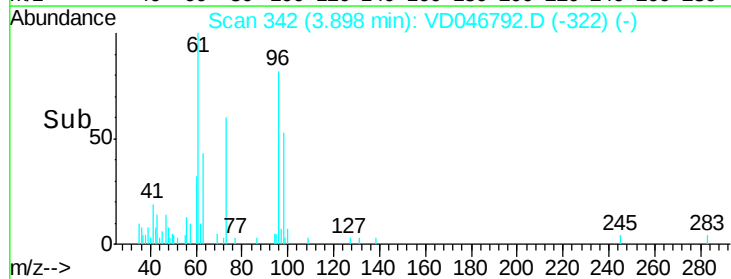
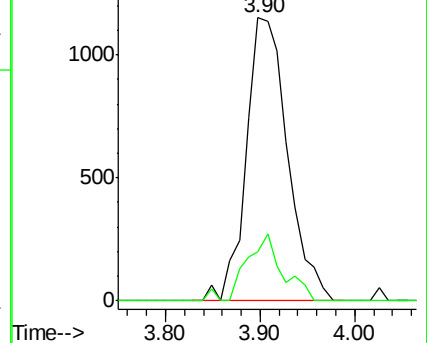
73 100

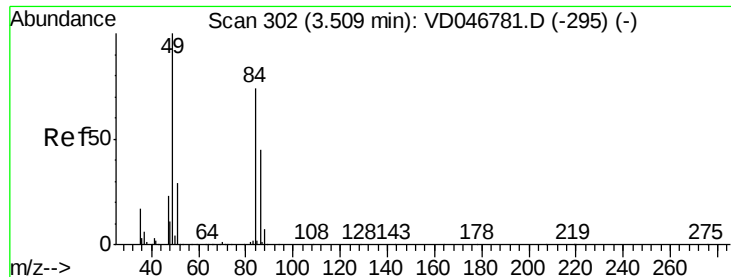
57 17.2 18.1 27.1#



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC

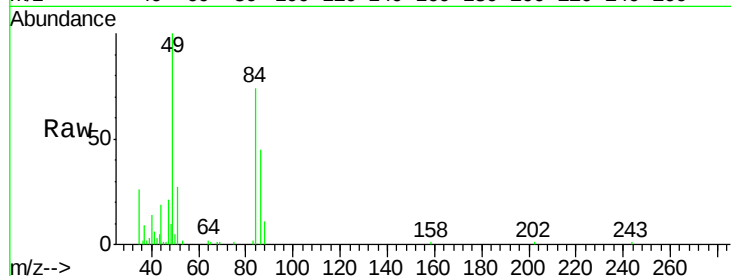




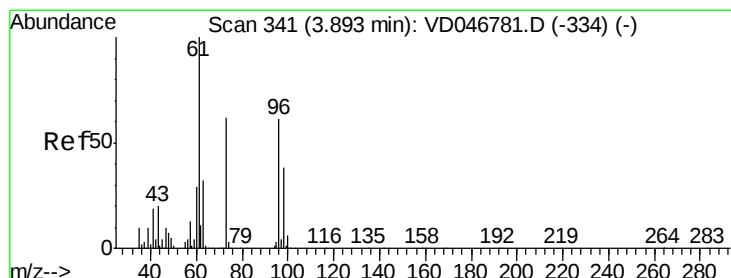
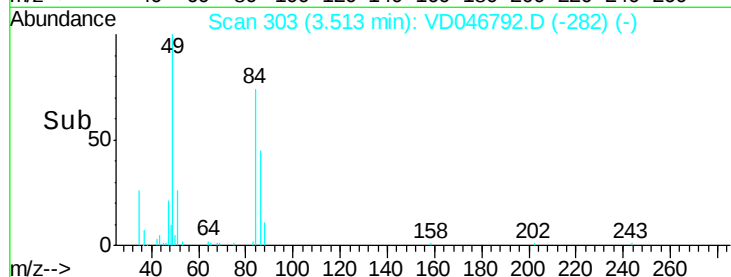
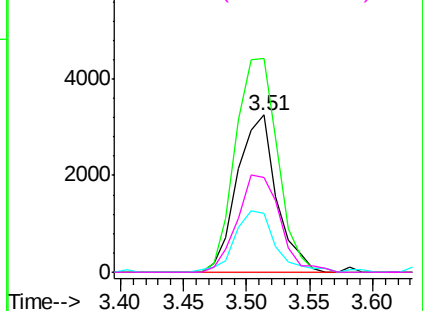
#21
Methylene Chloride
Concen: 4.65 ug/l
RT: 3.51 min Scan# 303
Delta R.T. 0.00 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion:	84	Resp:	7028
Ion	Ratio	Lower	Upper
84	100		
49	136.0	122.1	183.1
51	37.2	33.6	50.4
86	60.7	48.3	72.5

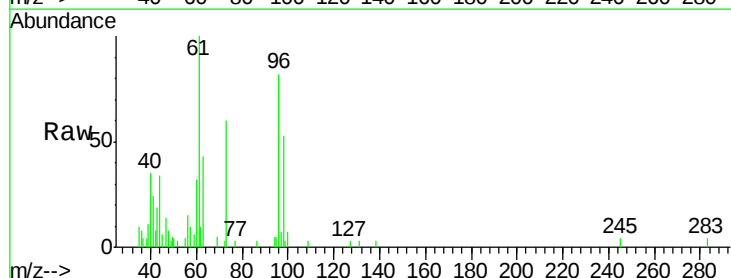


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

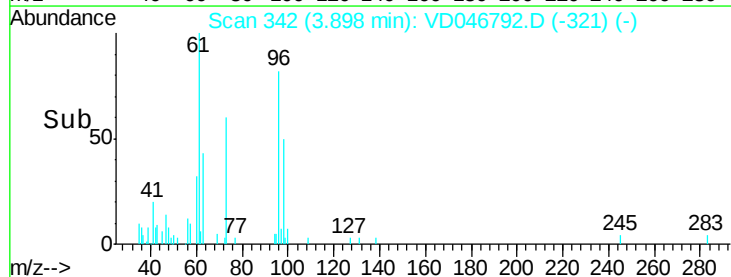
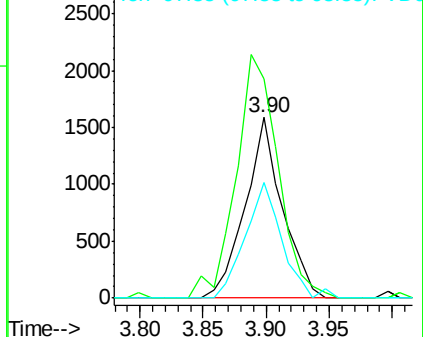


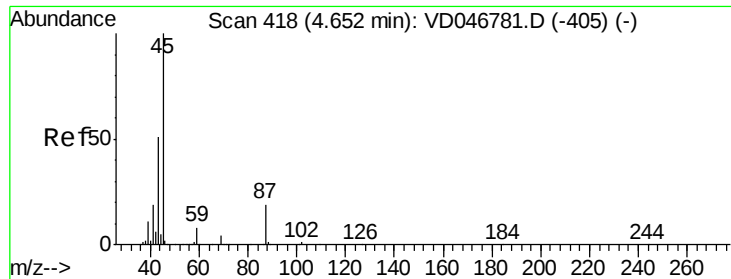
#22
trans-1,2-Dichloroethene
Concen: 2.28 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.00 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion:	96	Resp:	3259
Ion	Ratio	Lower	Upper
96	100		
61	121.2	125.8	188.6#
98	63.8	54.5	81.7



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC

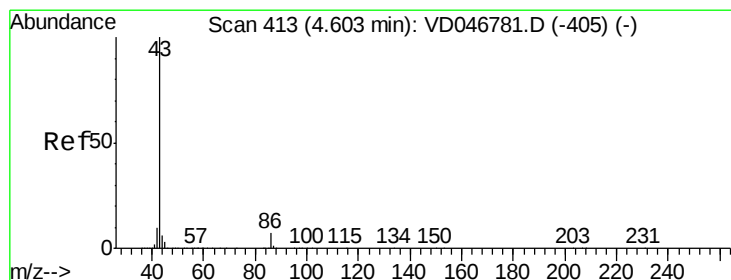
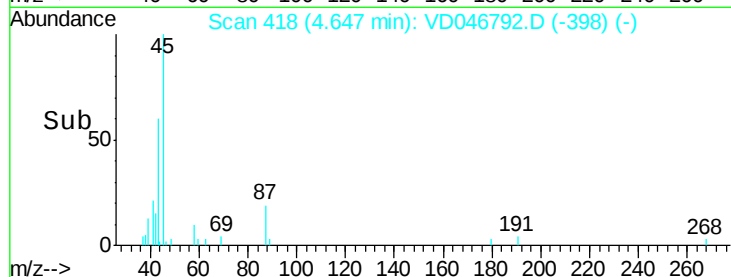
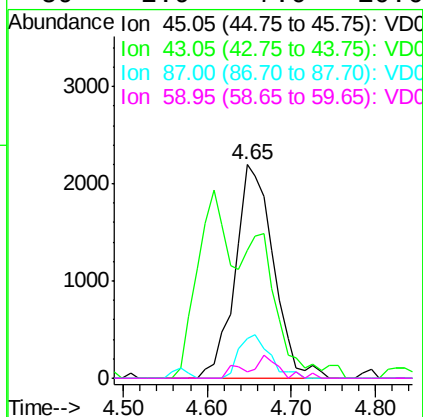
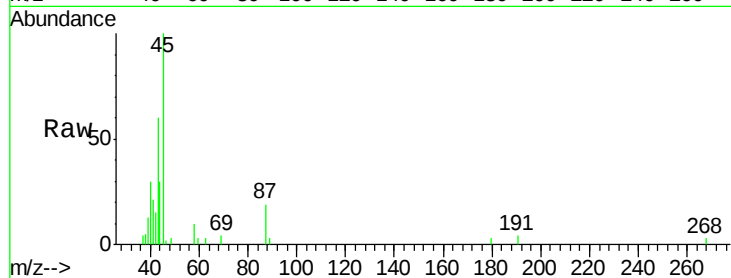




#23
Diisopropyl ether
Concen: 1.63 ug/l
RT: 4.65 min Scan# 418
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

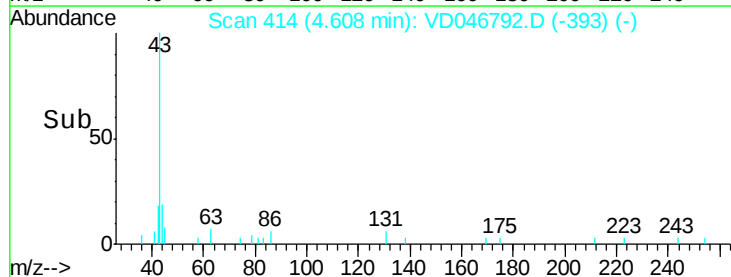
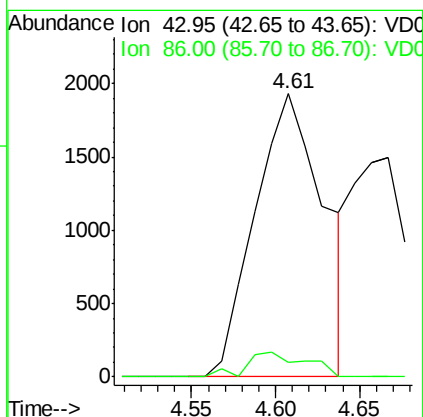
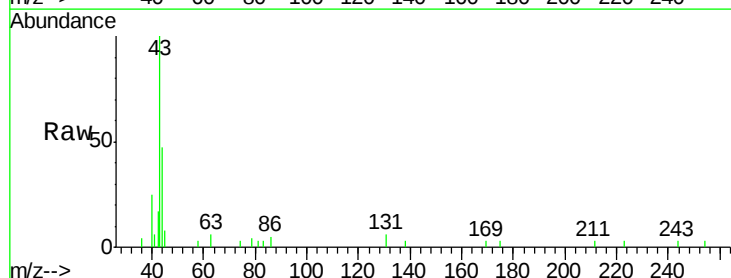
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

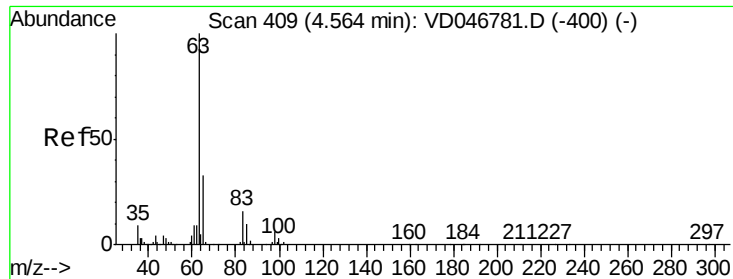
Tgt Ion:	45	Resp:	6986
Ion	Ratio	Lower	Upper
45	100		
43	60.0	35.9	53.9#
87	18.8	13.0	19.6
59	2.9	7.0	10.6#



#24
Vinyl Acetate
Concen: 20.12 ug/l
RT: 4.61 min Scan# 414
Delta R.T. 0.00 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion:	43	Resp:	5472
Ion	Ratio	Lower	Upper
43	100		
86	5.3	4.9	7.3





#25

1,1-Dichloroethane

Concen: 2.14 ug/l

RT: 4.56 min Scan# 409

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

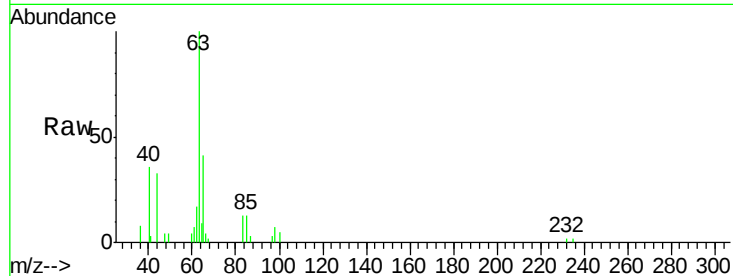
Tgt Ion: 63 Resp: 5642

Ion Ratio Lower Upper

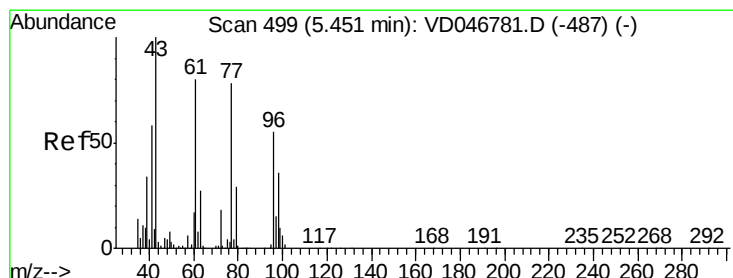
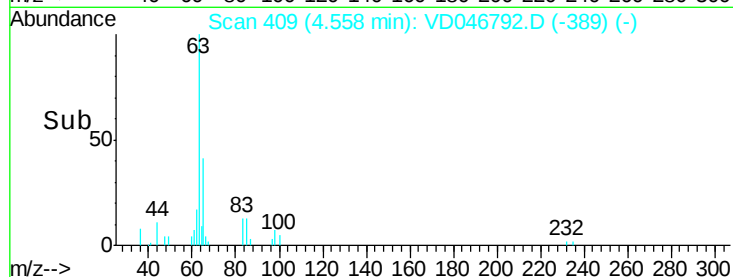
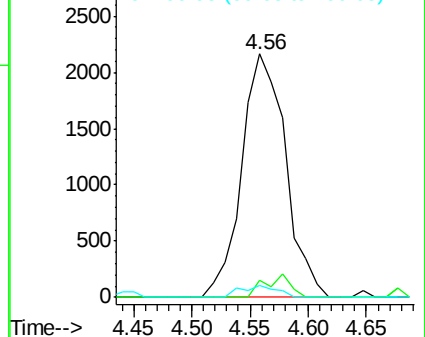
63 100

98 6.8 2.5 7.5

100 5.1 1.5 4.5#



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



#26

2-Butanone

Concen: 12.70 ug/l

RT: 5.46 min Scan# 500

Delta R.T. 0.00 min

Lab File: VD046792.D

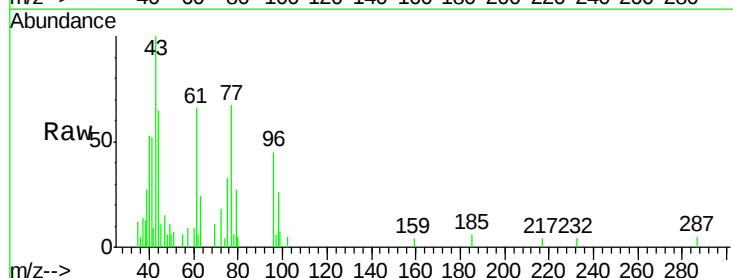
Acq: 18 Sep 2015 20:12

Tgt Ion: 43 Resp: 3969

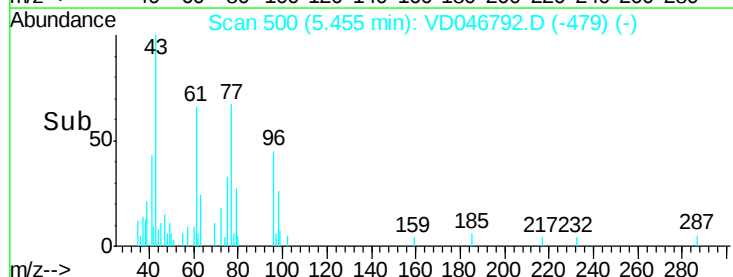
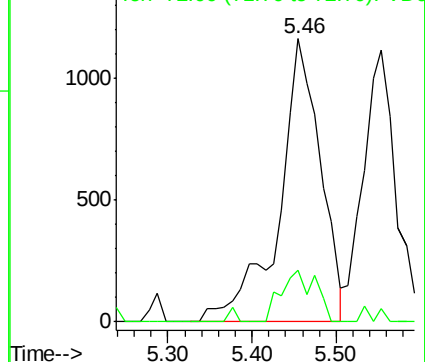
Ion Ratio Lower Upper

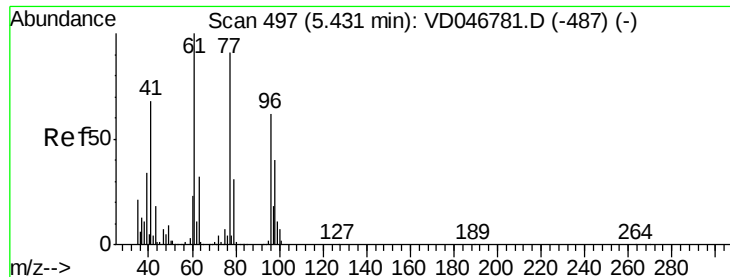
43 100

72 18.1 13.4 20.0



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





#27

2,2-Dichloropropane

Concen: 2.49 ug/l

RT: 5.42 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

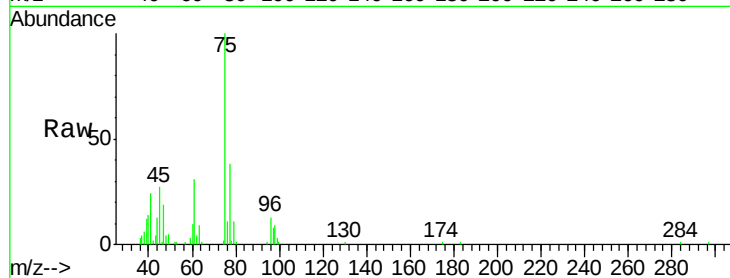
LOD-SOIL2015-01

Tgt Ion: 77 Resp: 6733

Ion Ratio Lower Upper

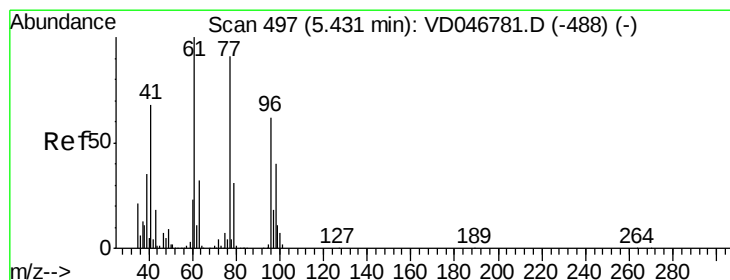
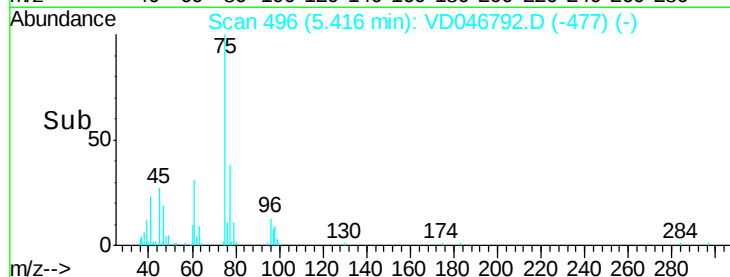
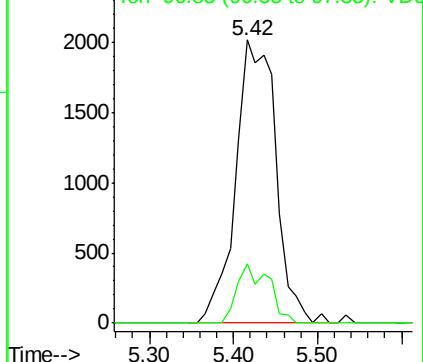
77 100

97 21.1 10.4 31.1



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#28

cis-1,2-Dichloroethene

Concen: 2.21 ug/l

RT: 5.44 min Scan# 498

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

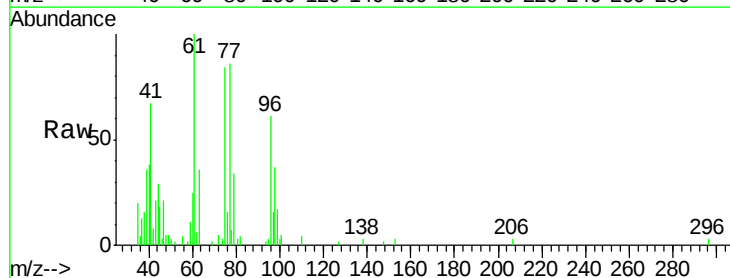
Tgt Ion: 96 Resp: 3291

Ion Ratio Lower Upper

96 100

61 162.8 0.0 348.0

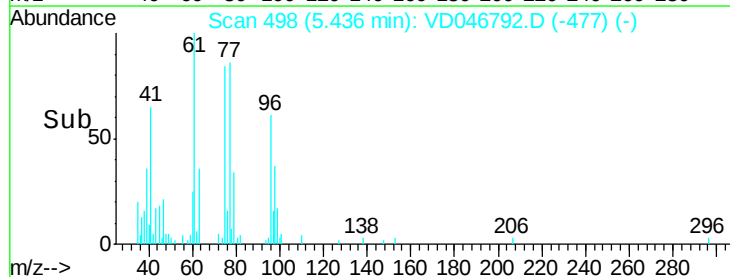
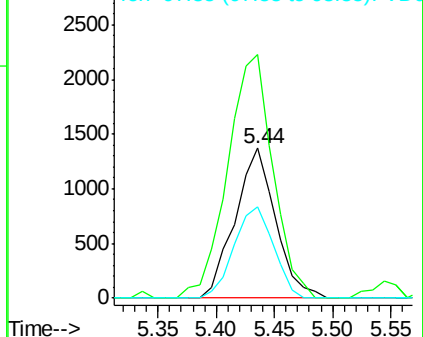
98 60.7 0.0 128.8

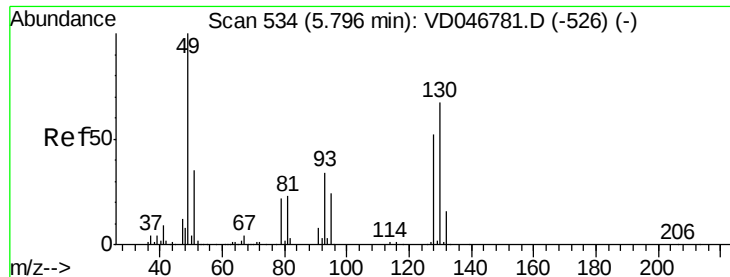


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#29

Bromochloromethane

Concen: 2.50 ug/l

RT: 5.80 min Scan# 535

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

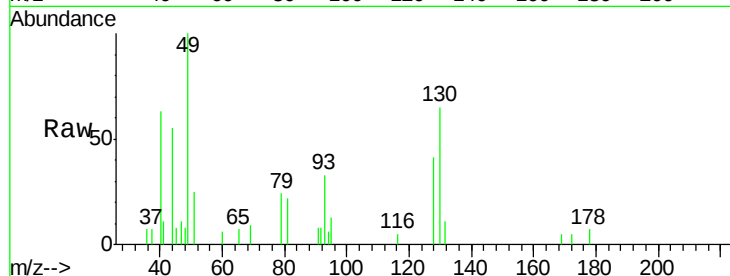
Tgt Ion: 49 Resp: 2595

Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.8

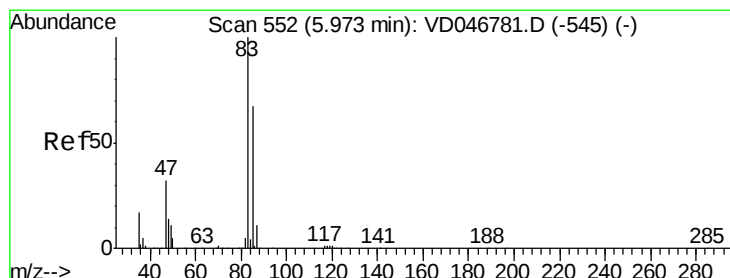
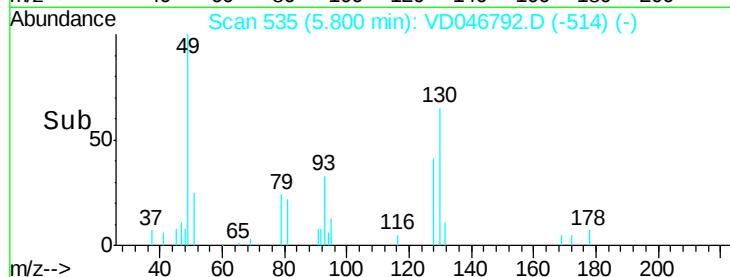
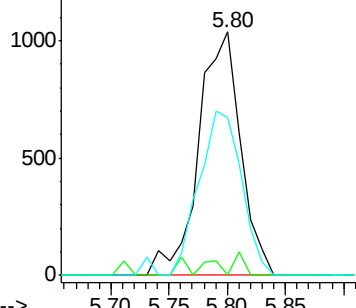
130 64.7 50.2 75.4



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#30

Chloroform

Concen: 2.55 ug/l

RT: 5.98 min Scan# 553

Delta R.T. 0.00 min

Lab File: VD046792.D

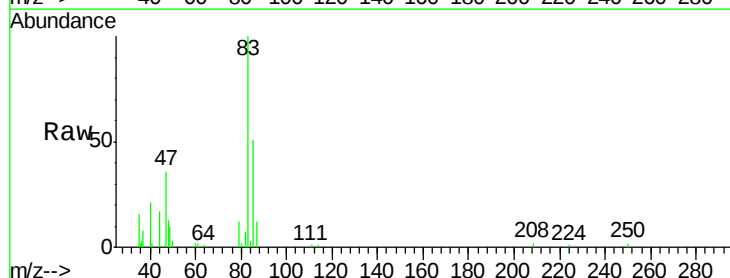
Acq: 18 Sep 2015 20:12

Tgt Ion: 83 Resp: 8155

Ion Ratio Lower Upper

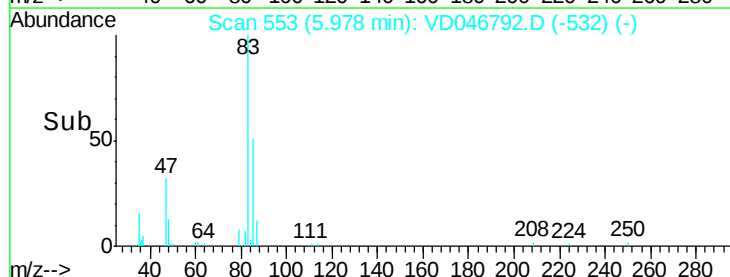
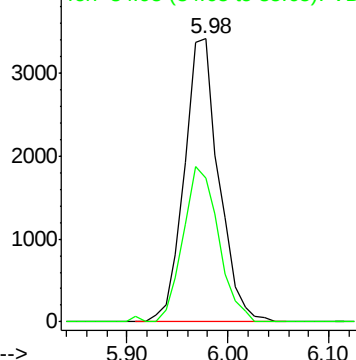
83 100

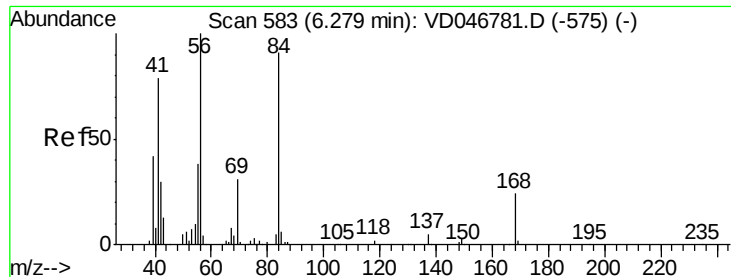
85 50.7 52.5 78.7#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

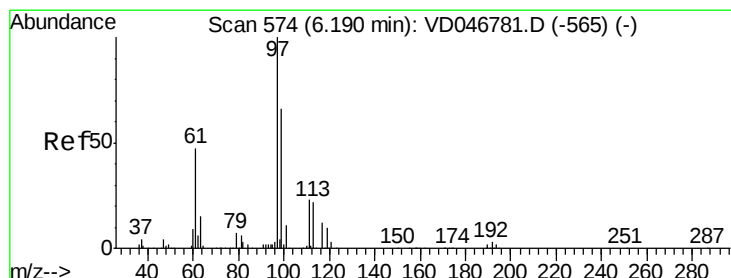
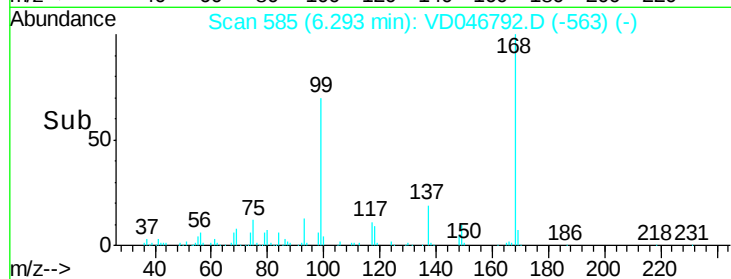
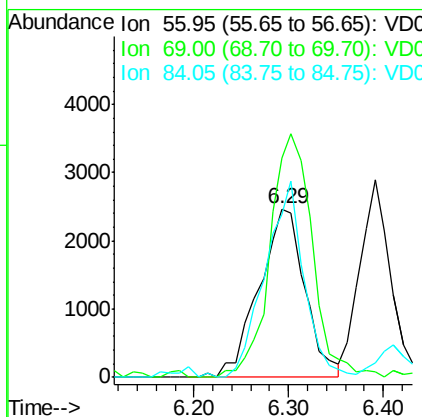
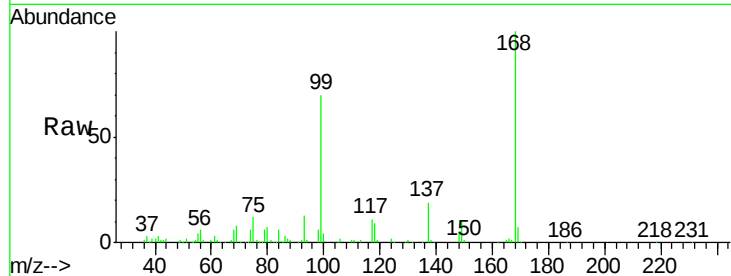




#31
Cyclohexane
Concen: 3.39 ug/l
RT: 6.29 min Scan# 585
Delta R.T. 0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

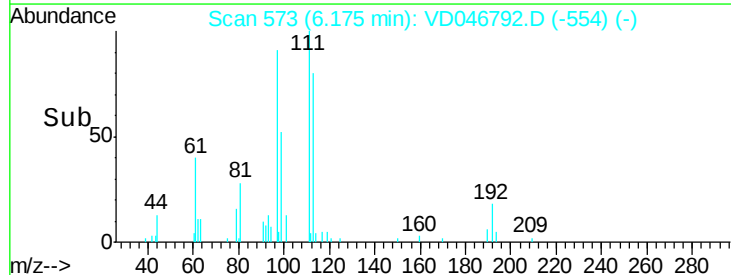
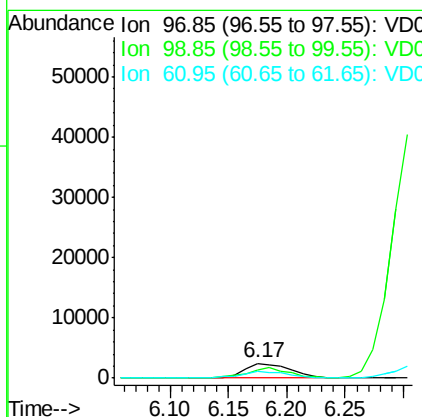
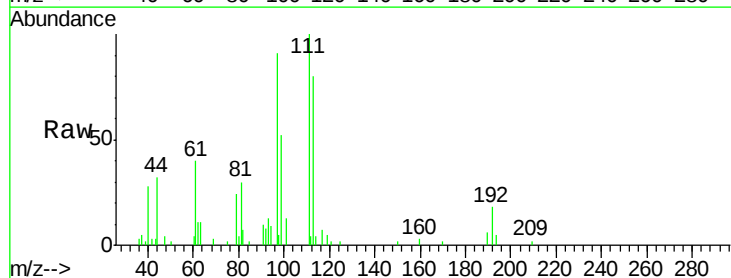
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

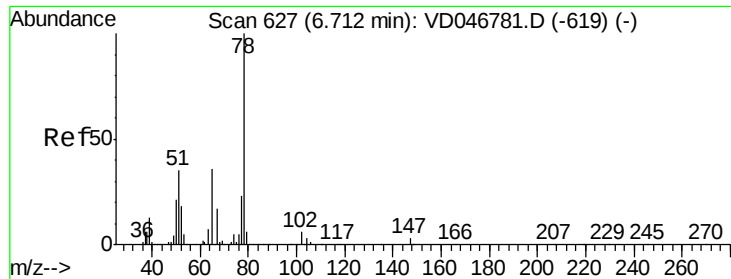
Tgt Ion: 56 Resp: 8366
Ion Ratio Lower Upper
56 100
69 129.8 23.4 35.0#
84 96.9 63.8 95.8#



#32
1,1,1-Trichloroethane
Concen: 2.32 ug/l
RT: 6.17 min Scan# 573
Delta R.T. -0.02 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion: 97 Resp: 6605
Ion Ratio Lower Upper
97 100
99 57.1 50.2 75.4
61 43.5 38.6 57.8

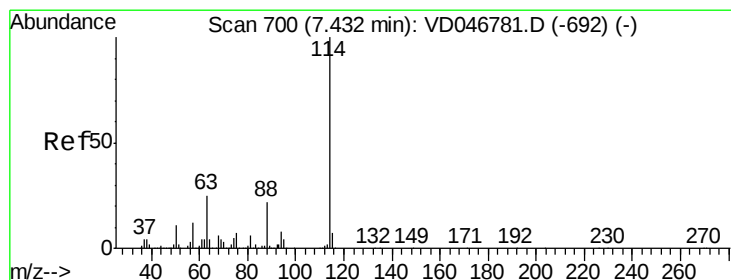
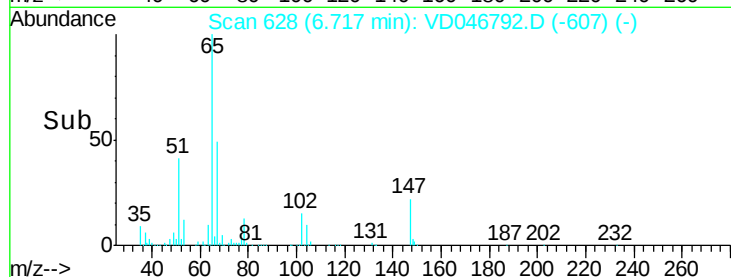
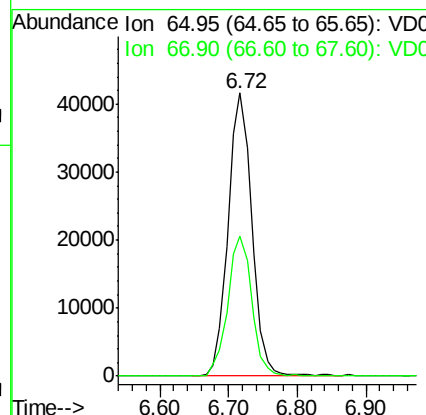
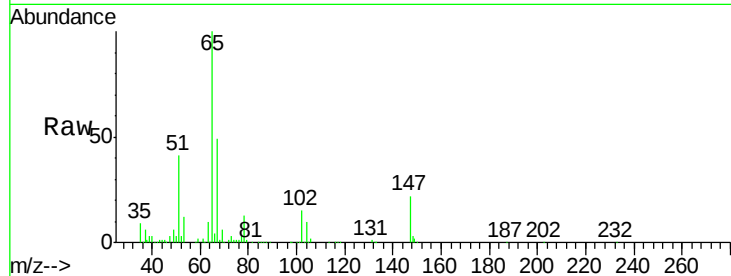




#33
 1,2-Dichloroethane-d4
 Concen: 2.32 ug/l
 RT: 6.72 min Scan# 628
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

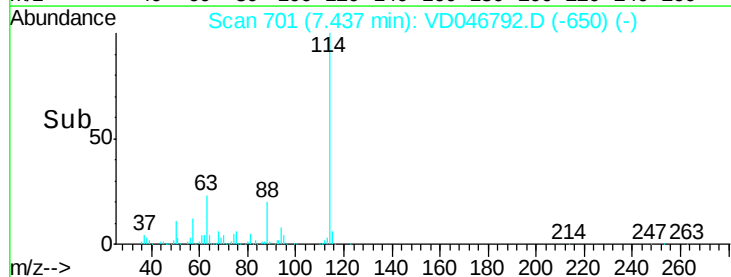
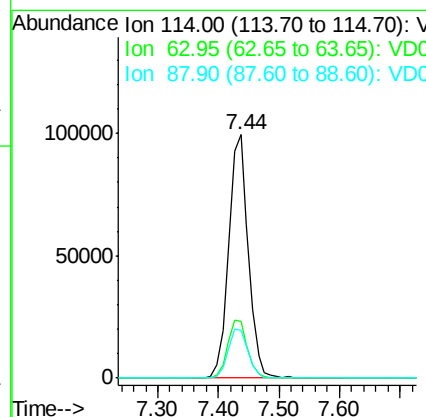
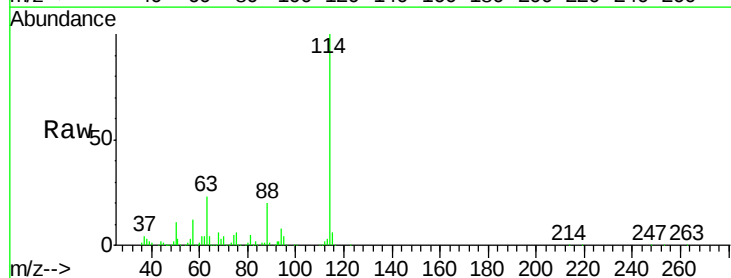
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

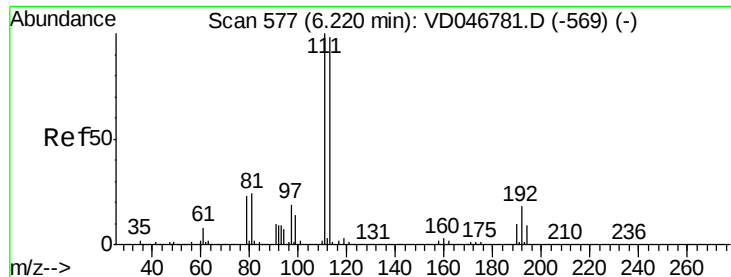
Tgt Ion: 65 Resp: 99620
 Ion Ratio Lower Upper
 65 100
 67 49.3 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.44 min Scan# 701
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion: 114 Resp: 223082
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 49.8
 88 19.5 0.0 43.6

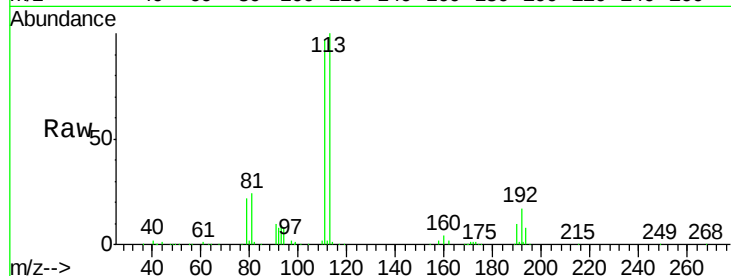




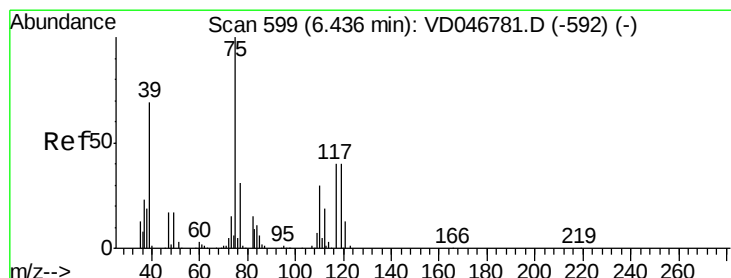
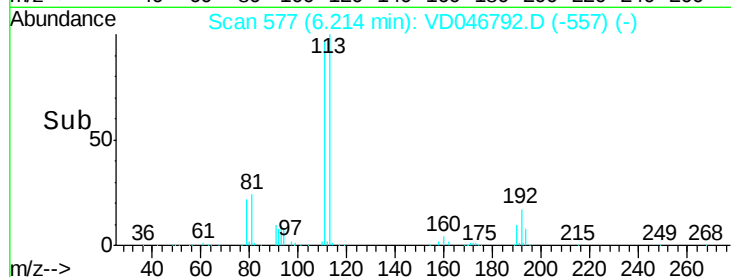
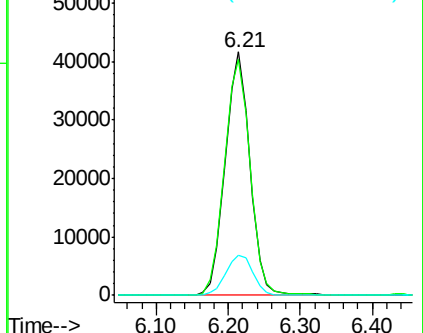
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.21 min Scan# 577
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion: 113 Resp: 99301
 Ion Ratio Lower Upper
 113 100
 111 97.0 79.4 119.0
 192 16.6 14.6 22.0

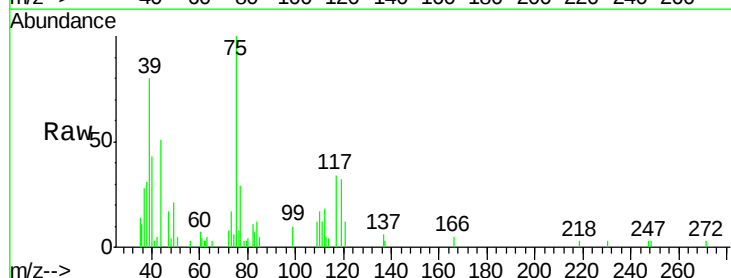


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

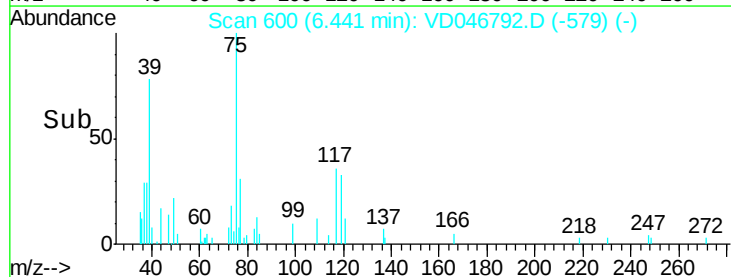
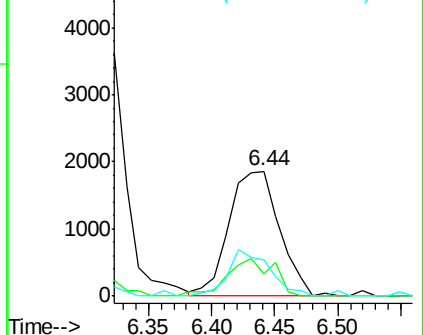


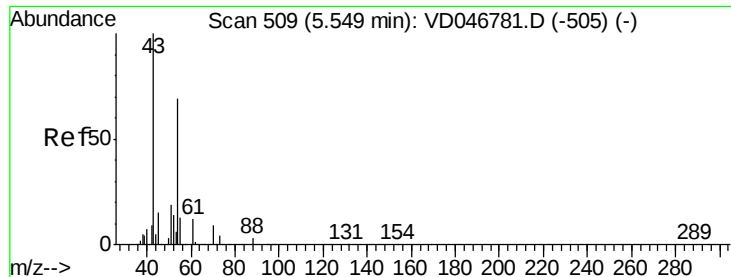
#36
 1,1-Dichloropropene
 Concen: 1.99 ug/l
 RT: 6.44 min Scan# 600
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion: 75 Resp: 5199
 Ion Ratio Lower Upper
 75 100
 110 17.3 13.7 41.0
 77 29.3 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

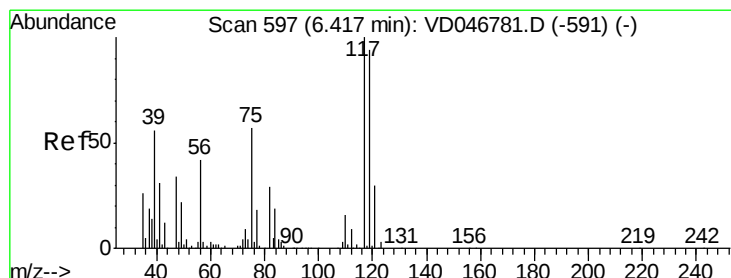
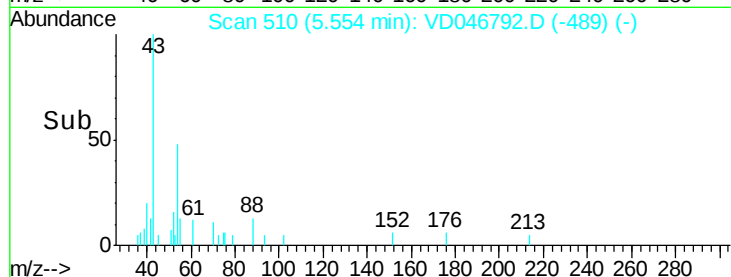
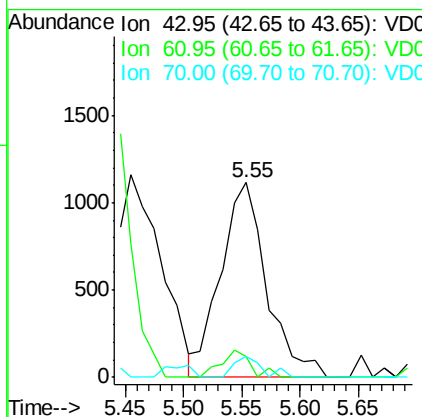
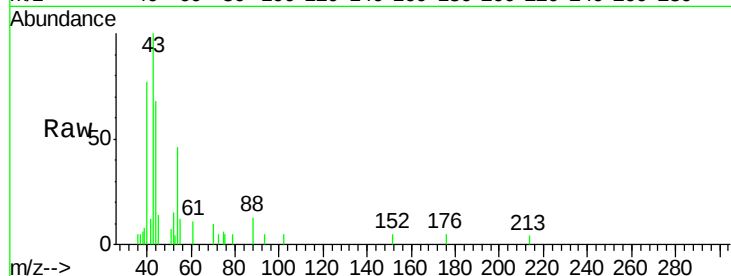




#37
Ethyl Acetate
Concen: 3.65 ug/l
RT: 5.55 min Scan# 510
Delta R.T. 0.00 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

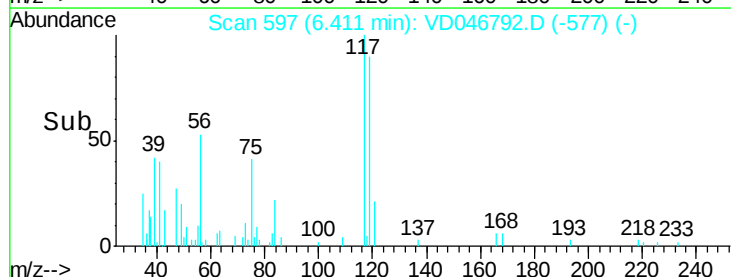
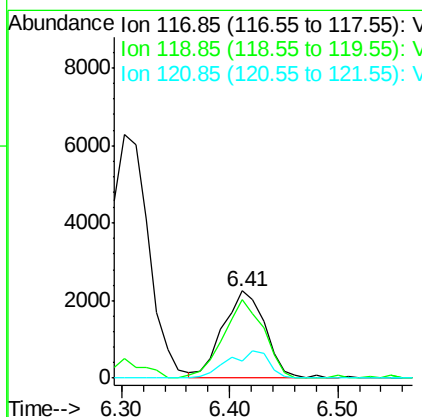
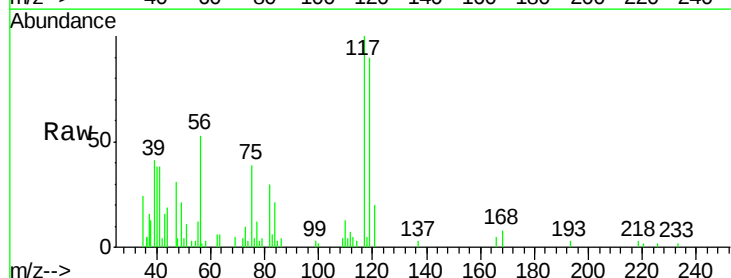
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

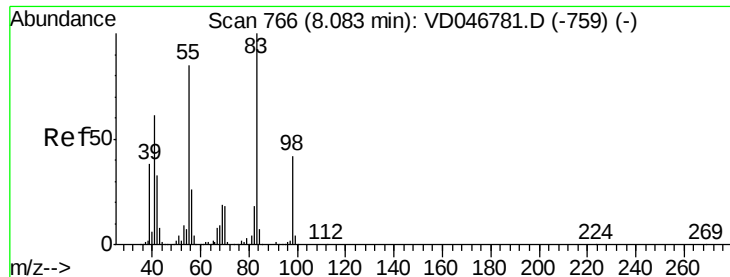
Tgt Ion: 43 Resp: 3053
Ion Ratio Lower Upper
43 100
61 11.0 9.4 14.2
70 10.4 6.0 9.0#



#38
Carbon Tetrachloride
Concen: 2.27 ug/l
RT: 6.41 min Scan# 597
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion: 117 Resp: 6140
Ion Ratio Lower Upper
117 100
119 89.7 76.2 114.4
121 20.3 24.5 36.7#





#39

Methylcyclohexane

Concen: 1.60 ug/l

RT: 8.09 min Scan# 767

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

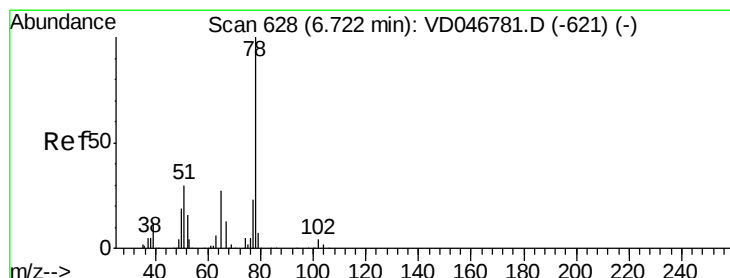
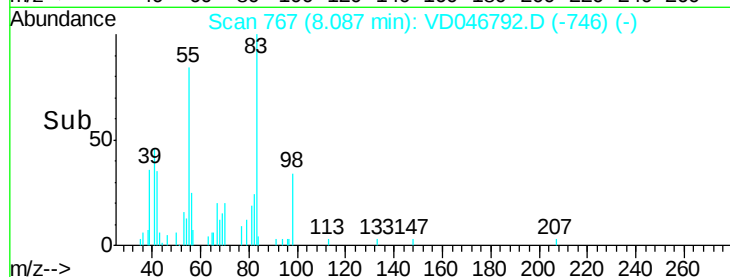
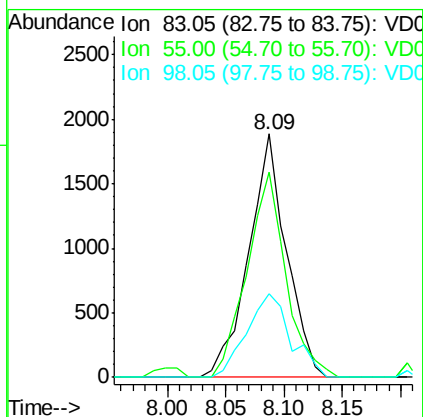
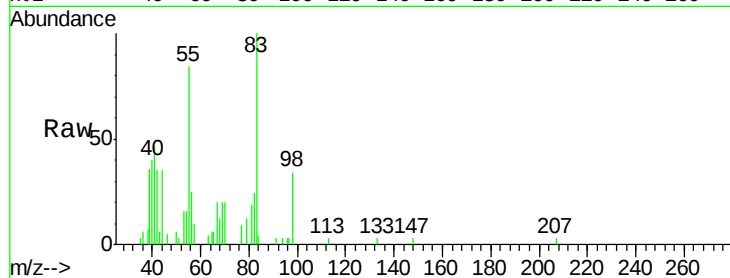
Tgt Ion: 83 Resp: 4229

Ion Ratio Lower Upper

83 100

55 84.3 71.1 106.7

98 34.4 34.6 51.8#



#40

Benzene

Concen: 2.22 ug/l

RT: 6.73 min Scan# 629

Delta R.T. 0.00 min

Lab File: VD046792.D

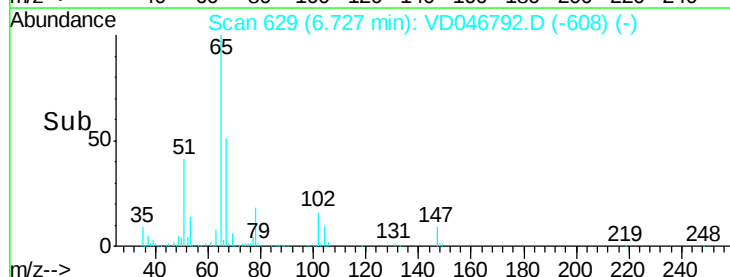
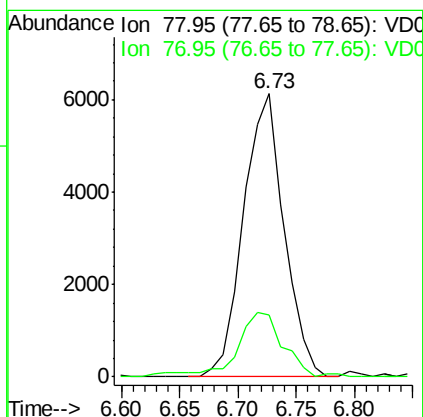
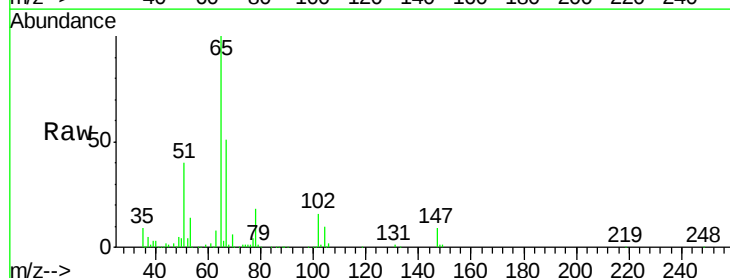
Acq: 18 Sep 2015 20:12

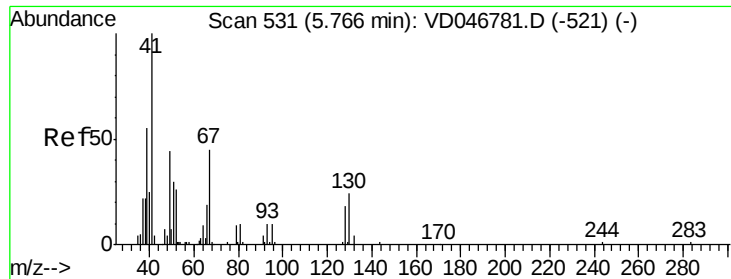
Tgt Ion: 78 Resp: 14767

Ion Ratio Lower Upper

78 100

77 21.9 19.9 29.9





#41

Methacrylonitrile

Concen: 1.96 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion: 41 Resp: 921

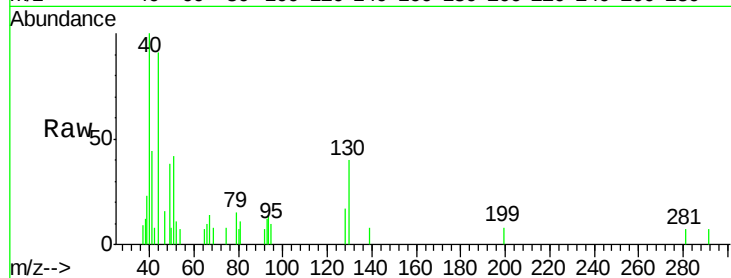
Ion Ratio Lower Upper

41 100

39 52.6 40.2 60.4

67 32.0 32.0 48.0#

52 26.0 13.8 20.8#

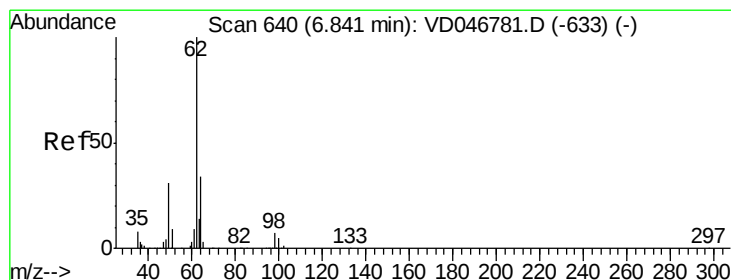
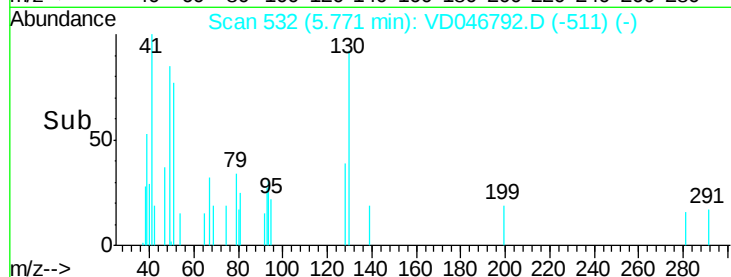
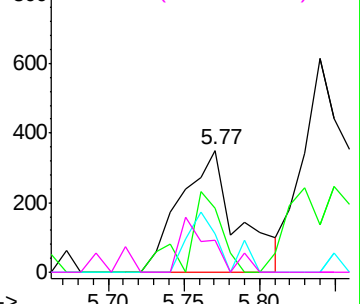


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 2.40 ug/l

RT: 6.84 min Scan# 640

Delta R.T. -0.01 min

Lab File: VD046792.D

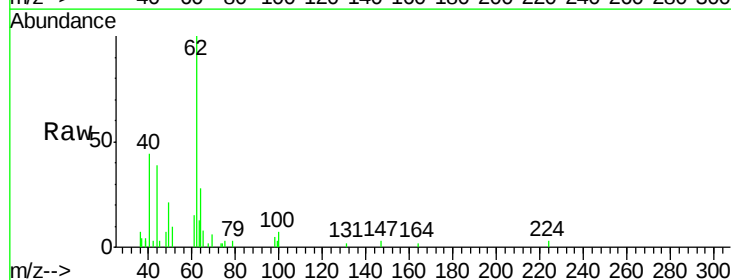
Acq: 18 Sep 2015 20:12

Tgt Ion: 62 Resp: 4971

Ion Ratio Lower Upper

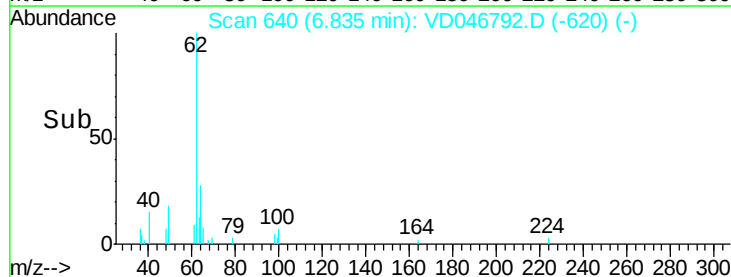
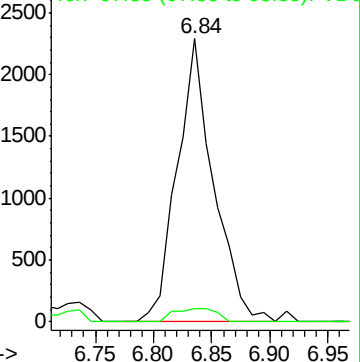
62 100

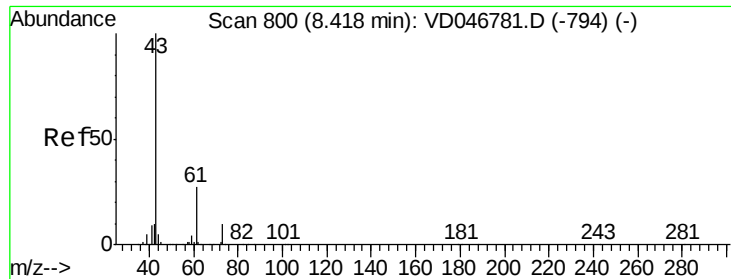
98 4.7 0.0 16.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 1.63 ug/l

RT: 8.41 min Scan# 800

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

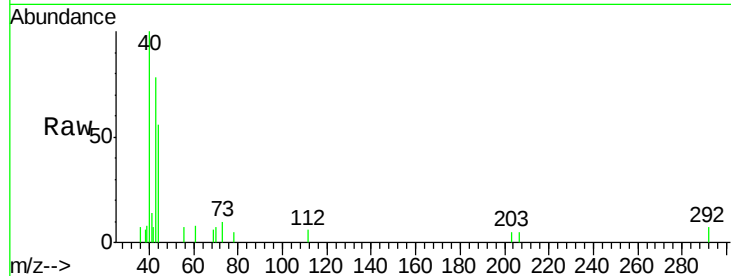
Tgt Ion: 43 Resp: 1799

Ion Ratio Lower Upper

43 100

61 10.4 19.5 29.3#

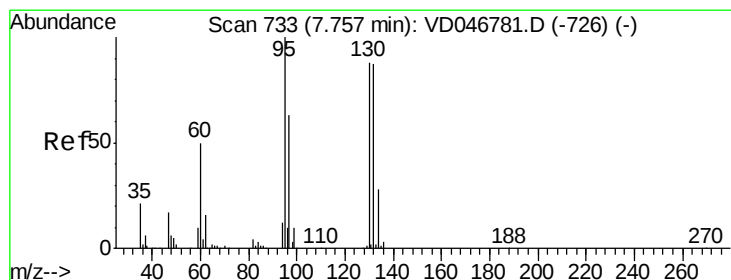
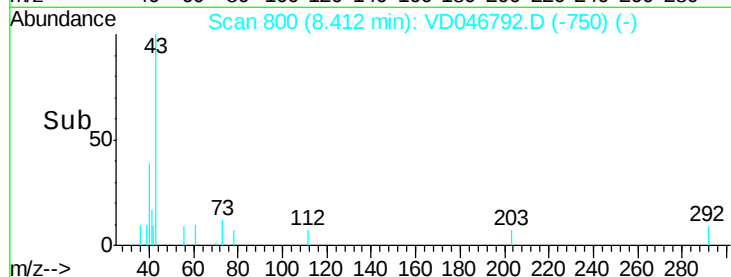
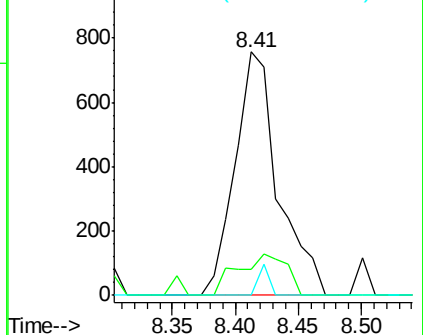
87 0.0 0.2 0.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 2.10 ug/l

RT: 7.74 min Scan# 732

Delta R.T. -0.02 min

Lab File: VD046792.D

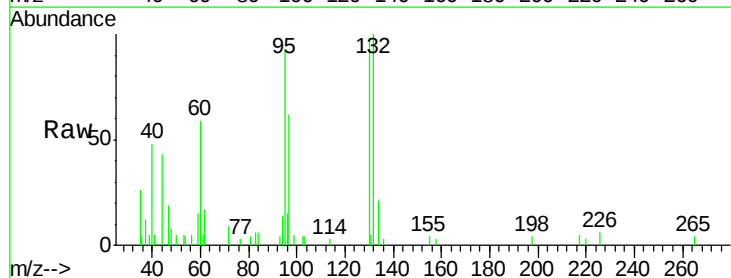
Acq: 18 Sep 2015 20:12

Tgt Ion:130 Resp: 3503

Ion Ratio Lower Upper

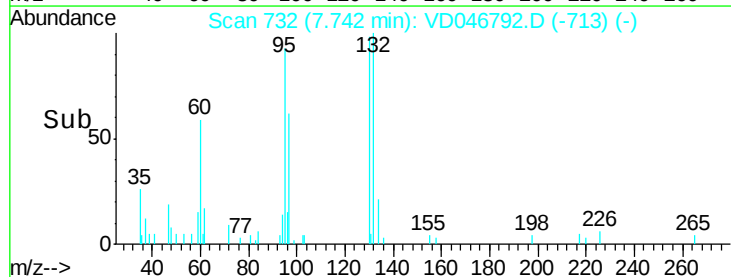
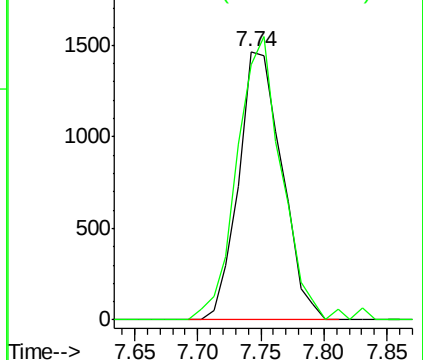
130 100

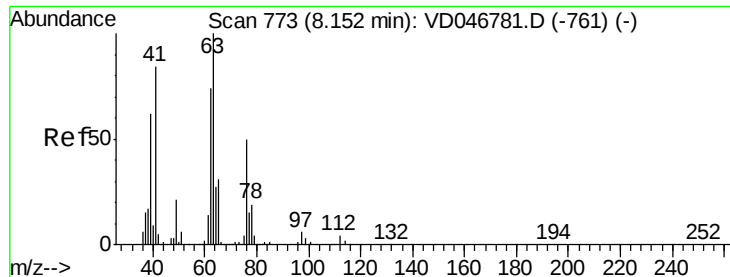
95 95.4 0.0 229.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 2.05 ug/l

RT: 8.15 min Scan# 773

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

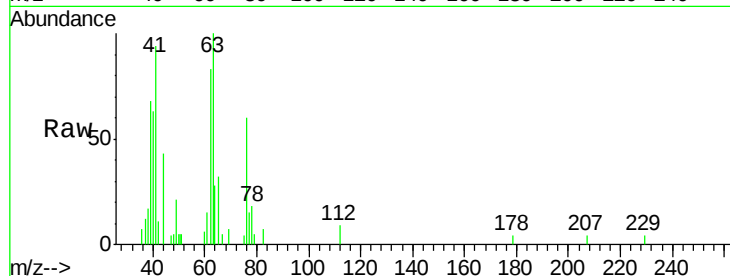
LOD-SOIL2015-01

Tgt Ion: 63 Resp: 3386

Ion Ratio Lower Upper

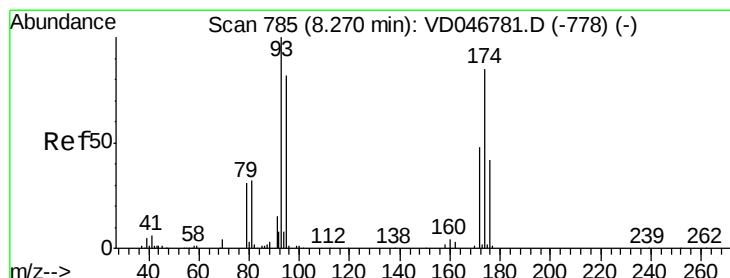
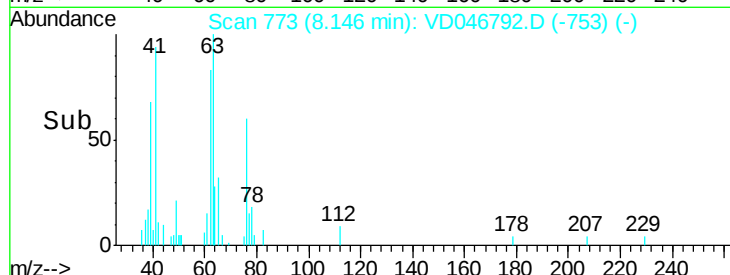
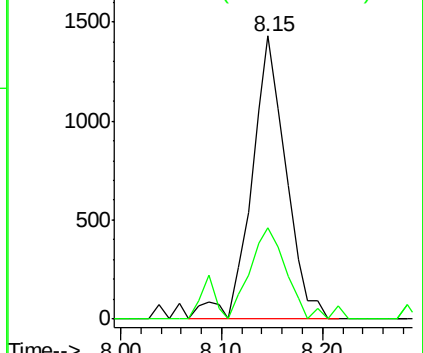
63 100

65 32.4 25.1 37.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 1.98 ug/l

RT: 8.27 min Scan# 786

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

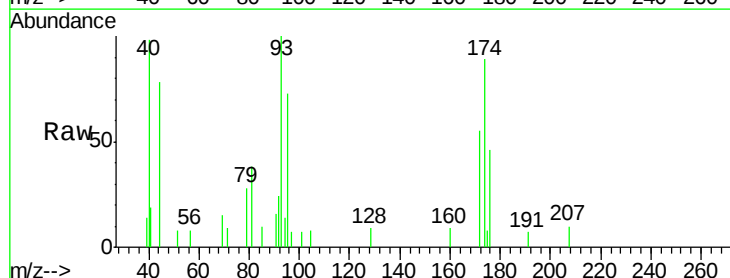
Tgt Ion: 93 Resp: 1853

Ion Ratio Lower Upper

93 100

95 73.2 70.2 105.2

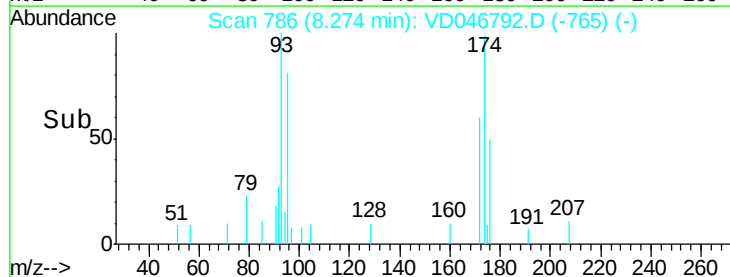
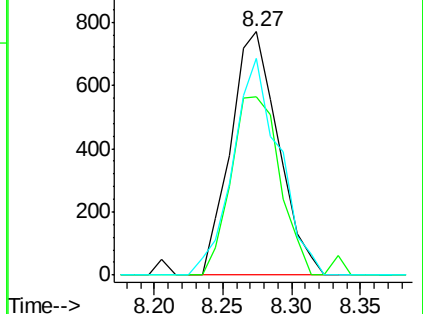
174 89.1 79.0 118.4

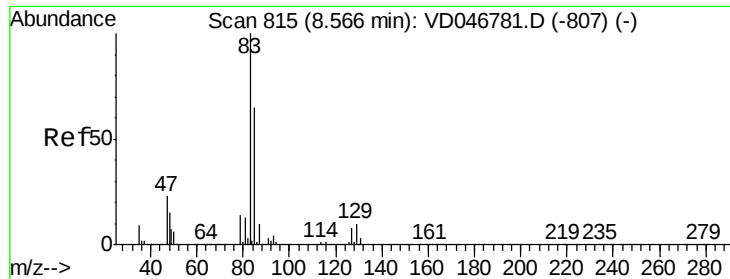


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 2.18 ug/l

RT: 8.56 min Scan# 815

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

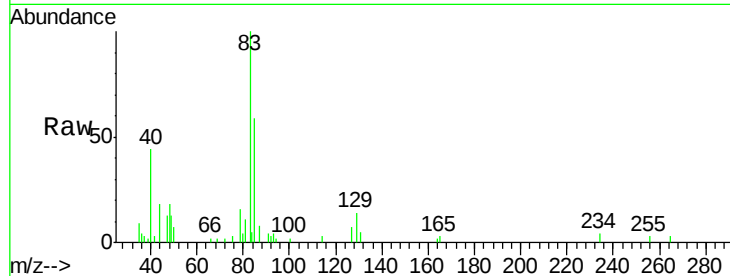
Tgt Ion: 83 Resp: 5357

Ion Ratio Lower Upper

83 100

85 59.0 52.6 78.8

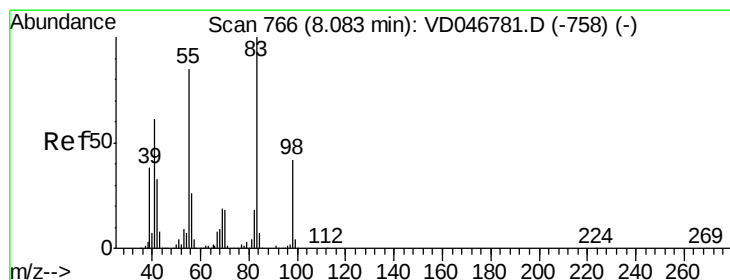
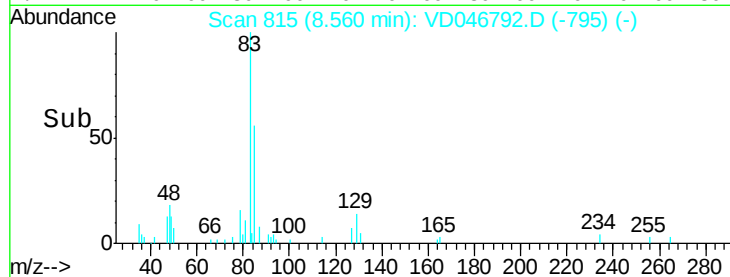
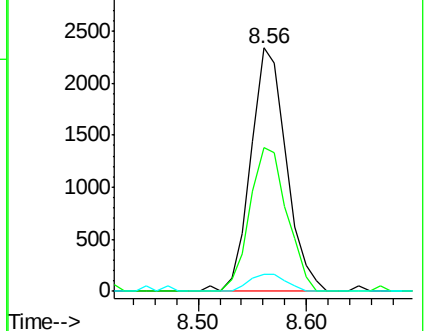
127 6.9 5.7 8.5



Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 1.50 ug/l

RT: 8.08 min Scan# 766

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

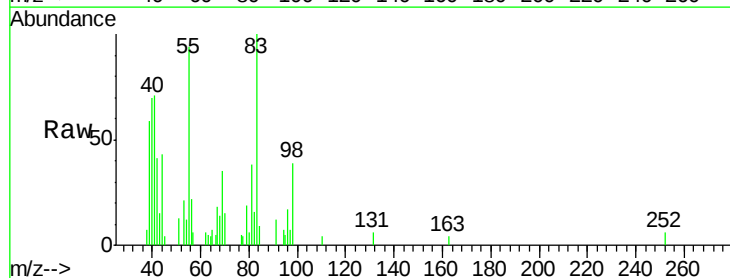
Tgt Ion: 41 Resp: 2535

Ion Ratio Lower Upper

41 100

69 49.4 25.3 37.9#

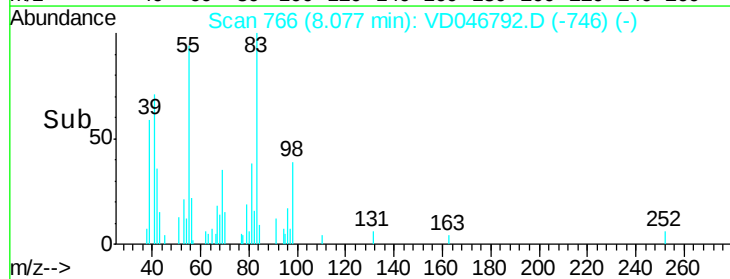
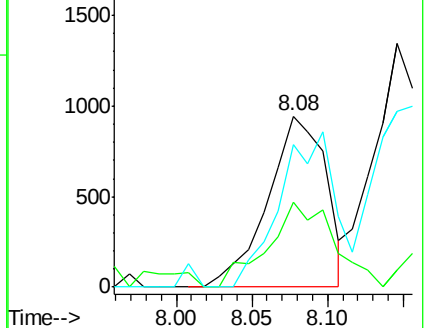
39 83.1 47.4 71.0#

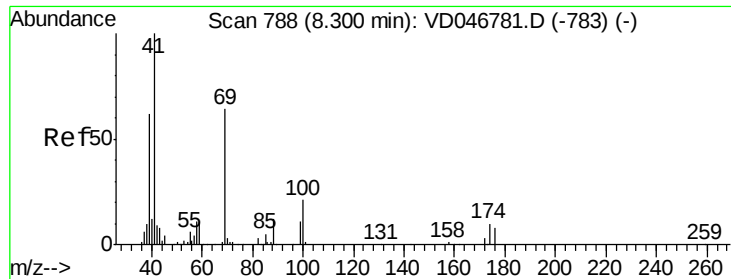


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 19.06 ug/l

RT: 8.29 min Scan# 788

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

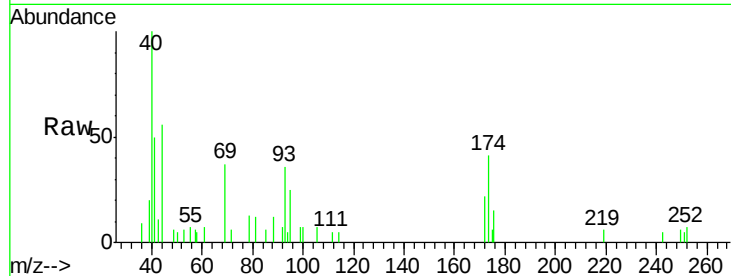
Tgt Ion: 88 Resp: 119

Ion Ratio Lower Upper

88 100

43 87.8 50.0 75.0#

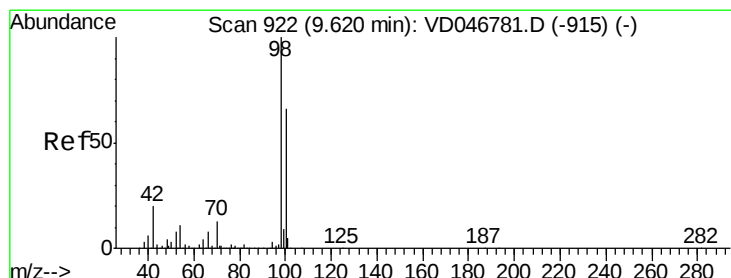
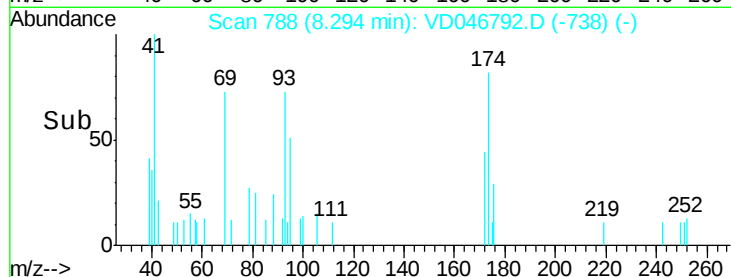
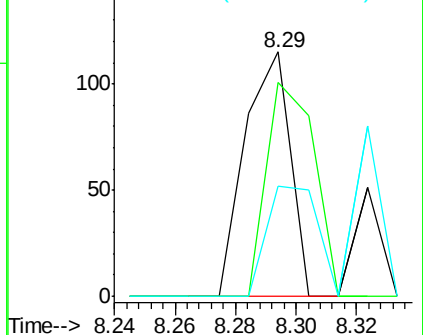
58 45.2 48.3 72.5#



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: 19.06 ug/l

RT: 9.62 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD046792.D

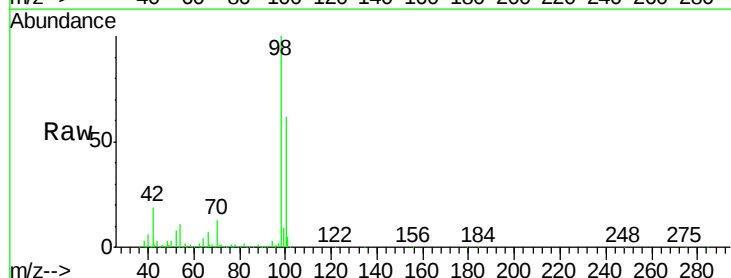
Acq: 18 Sep 2015 20:12

Tgt Ion: 98 Resp: 302502

Ion Ratio Lower Upper

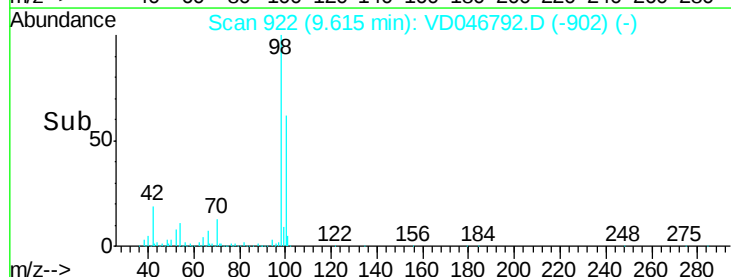
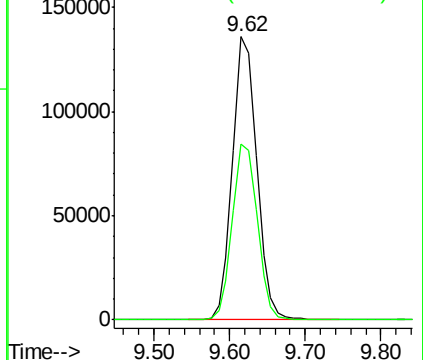
98 100

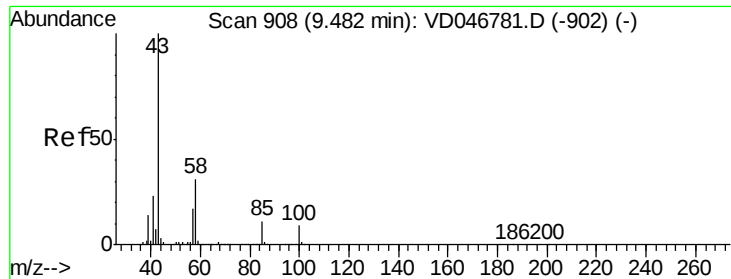
100 61.9 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

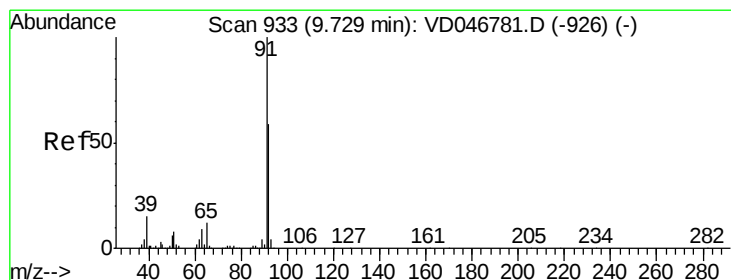
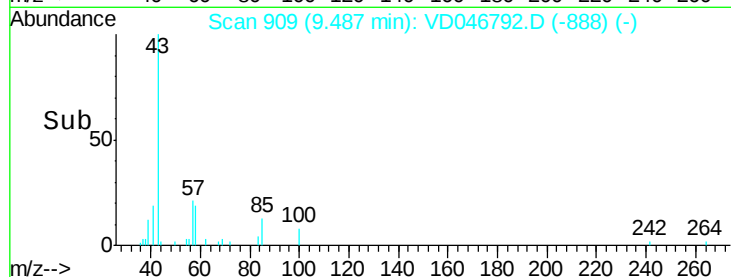
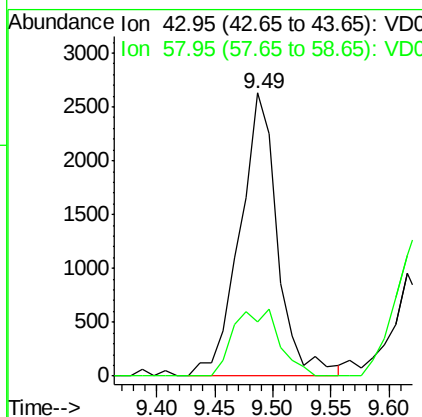
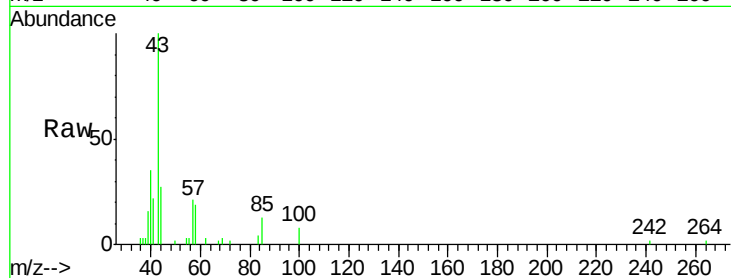




#51
 4-Methyl-2-Pentanone
 Concen: 7.42 ug/l
 RT: 9.49 min Scan# 909
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

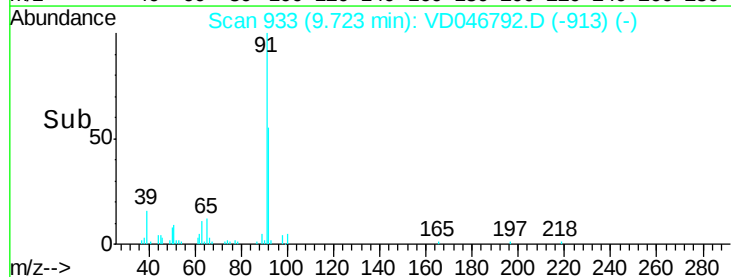
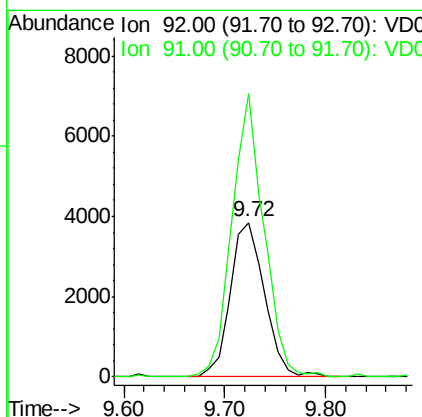
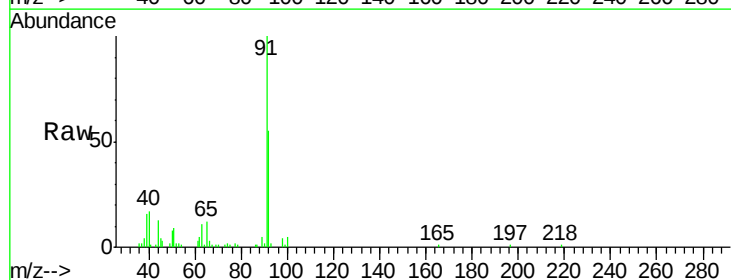
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

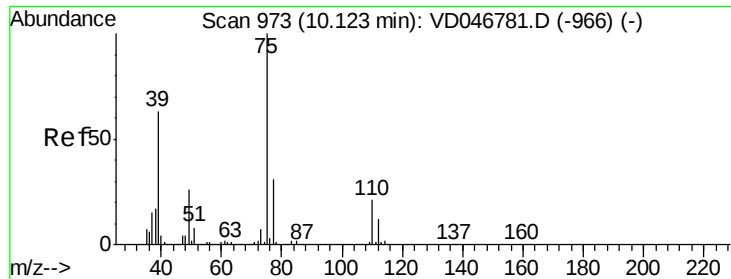
Tgt Ion: 43 Resp: 5922
 Ion Ratio Lower Upper
 43 100
 58 19.4 22.2 33.2#



#52
 Toluene
 Concen: 2.21 ug/l
 RT: 9.72 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion: 92 Resp: 9093
 Ion Ratio Lower Upper
 92 100
 91 183.5 139.4 209.0

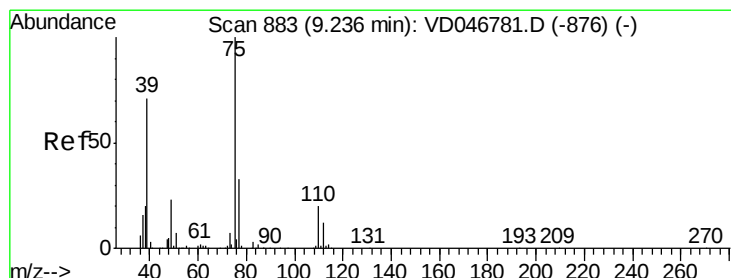
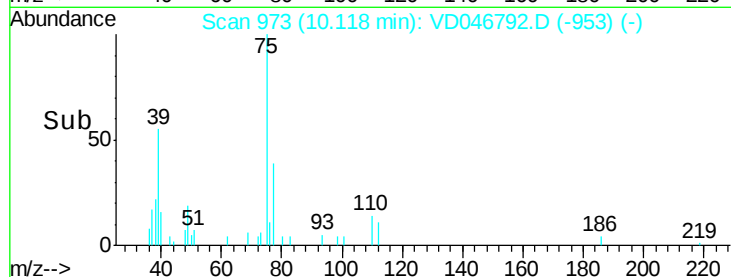
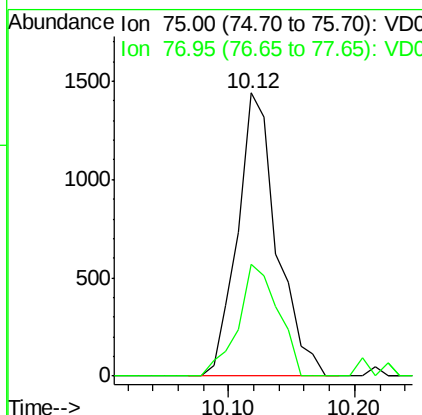
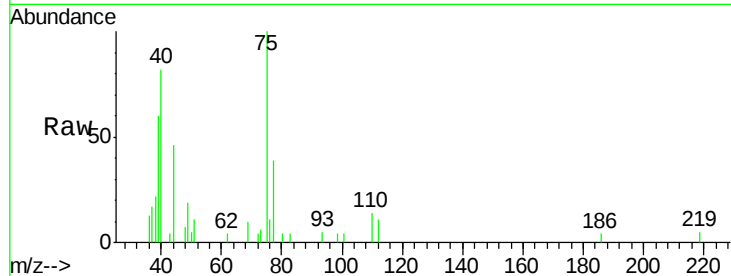




#53
 t-1,3-Dichloropropene
 Concen: 1.72 ug/l
 RT: 10.12 min Scan# 973
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

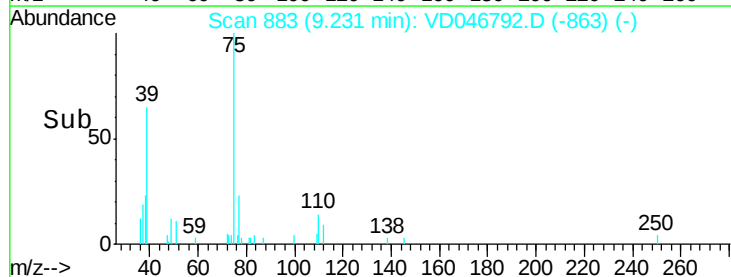
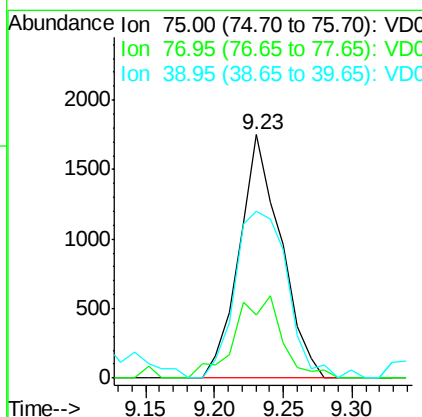
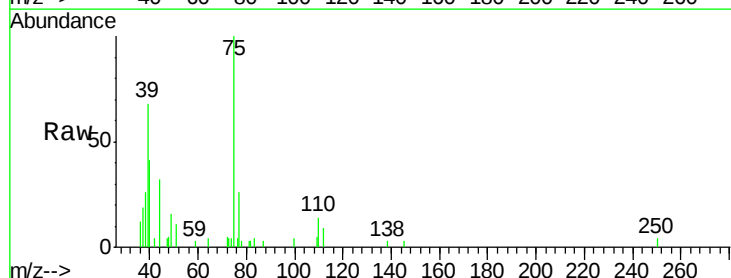
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

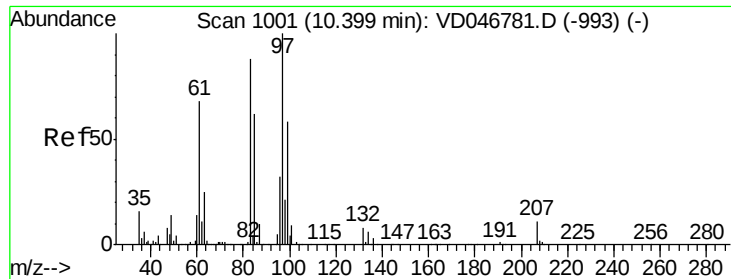
Tgt Ion: 75 Resp: 3122
 Ion Ratio Lower Upper
 75 100
 77 39.3 27.6 41.4



#54
 cis-1,3-Dichloropropene
 Concen: 1.58 ug/l
 RT: 9.23 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion: 75 Resp: 3690
 Ion Ratio Lower Upper
 75 100
 77 26.1 23.8 35.6
 39 68.3 53.0 79.6

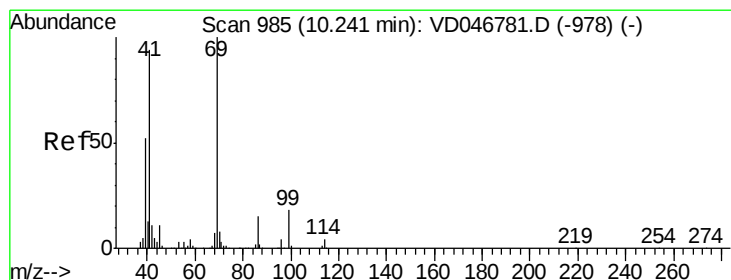
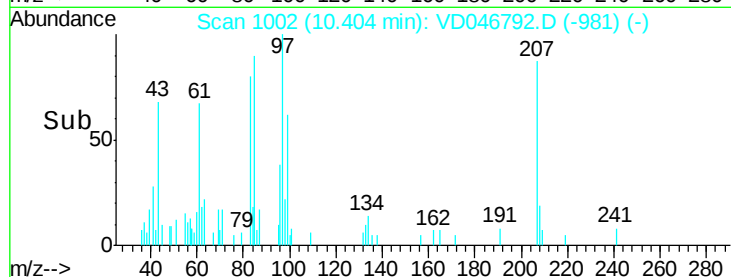
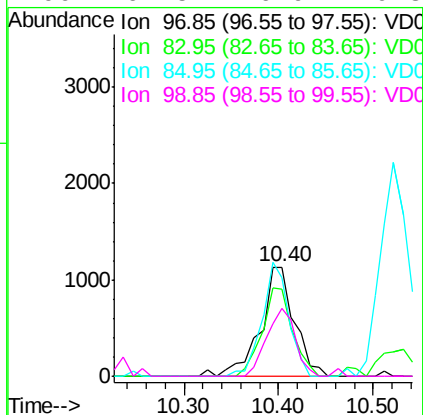
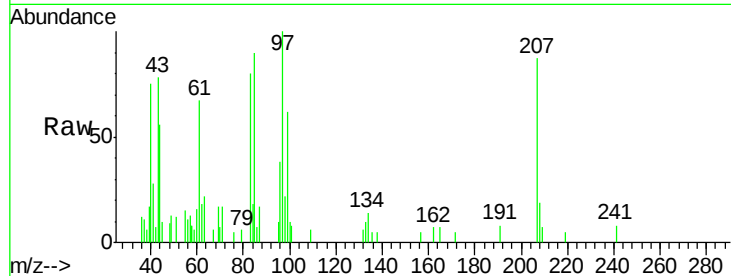




#55
 1,1,2-Trichloroethane
 Concen: 2.66 ug/l
 RT: 10.40 min Scan# 1002
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

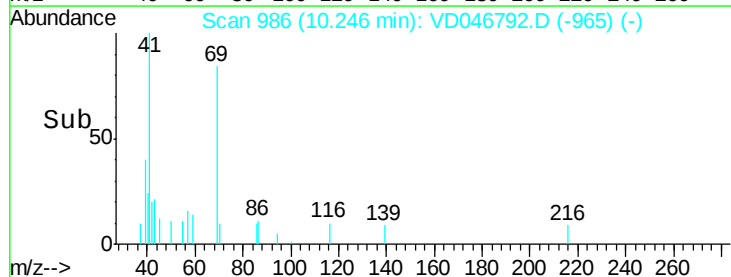
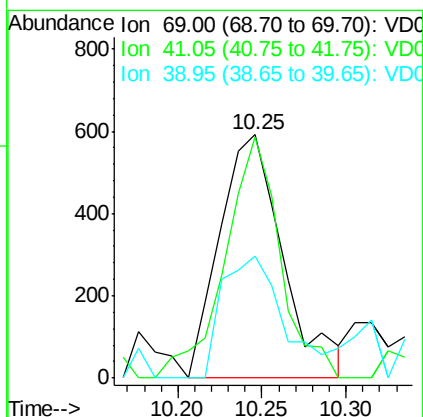
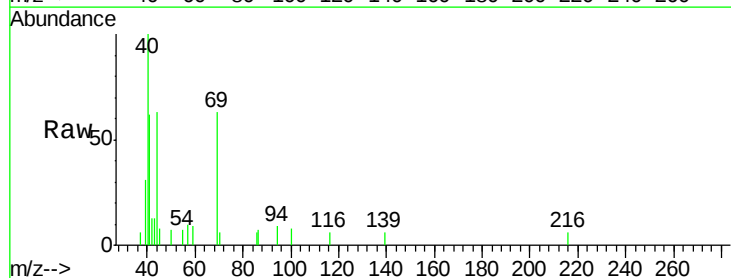
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

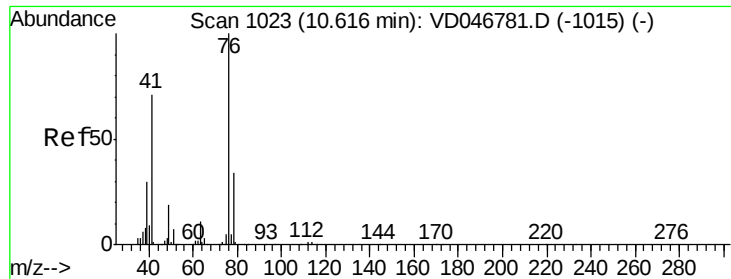
Tgt Ion: 97 Resp: 2832
 Ion Ratio Lower Upper
 97 100
 83 80.1 75.3 112.9
 85 90.1 50.9 76.3#
 99 62.5 46.9 70.3



#56
 Ethyl methacrylate
 Concen: 5.17 ug/l
 RT: 10.25 min Scan# 986
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion: 69 Resp: 1555
 Ion Ratio Lower Upper
 69 100
 41 99.0 75.4 113.0
 39 50.0 41.0 61.4





#57

1,3-Dichloropropane

Concen: 1.97 ug/l

RT: 10.61 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

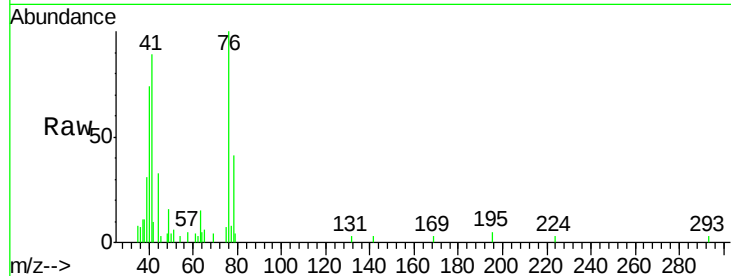
LOD-SOIL2015-01

Tgt Ion: 76 Resp: 3885

Ion Ratio Lower Upper

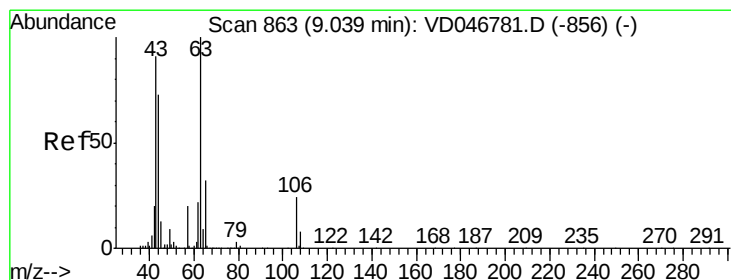
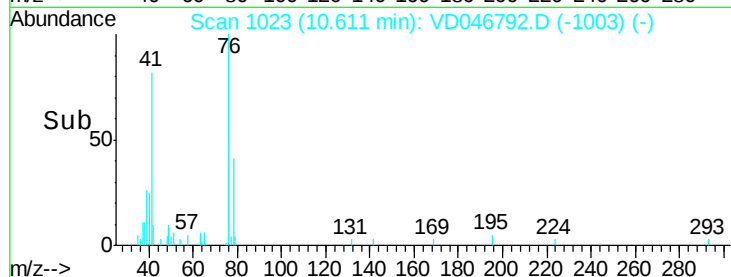
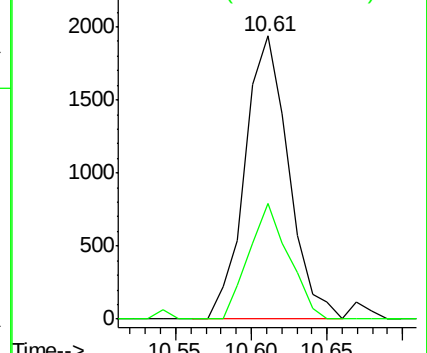
76 100

78 40.8 26.6 39.8#



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 11.79 ug/l

RT: 9.03 min Scan# 863

Delta R.T. -0.00 min

Lab File: VD046792.D

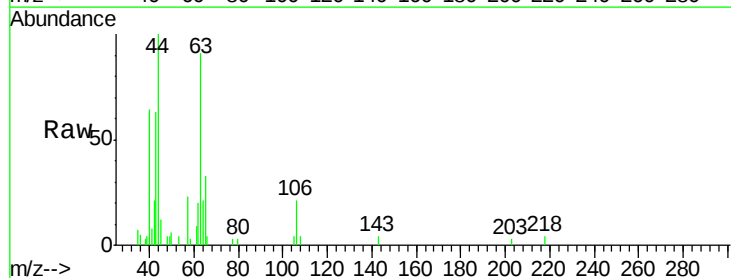
Acq: 18 Sep 2015 20:12

Tgt Ion: 63 Resp: 2938

Ion Ratio Lower Upper

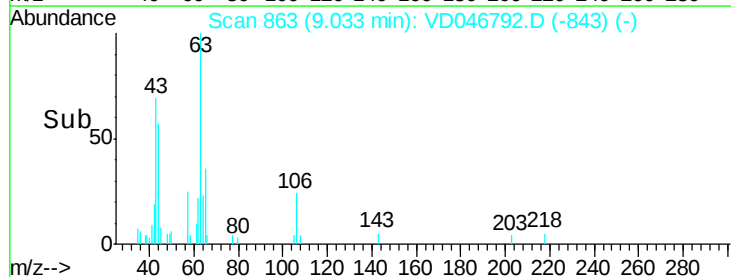
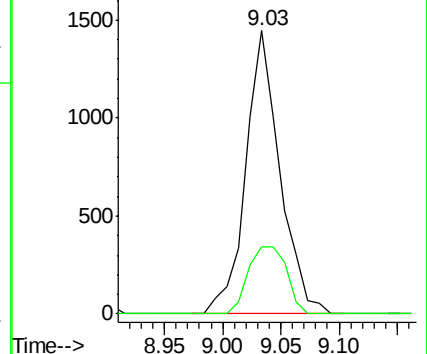
63 100

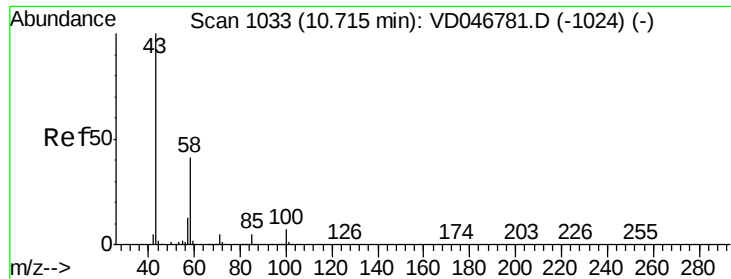
106 23.5 17.8 26.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

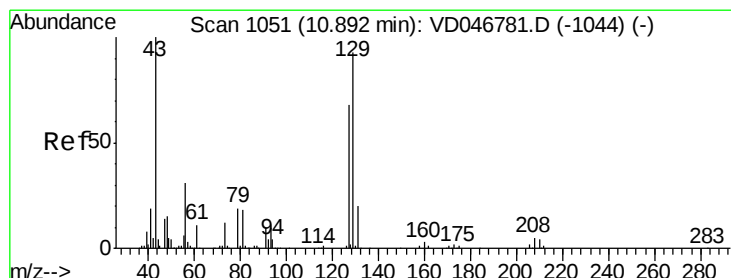
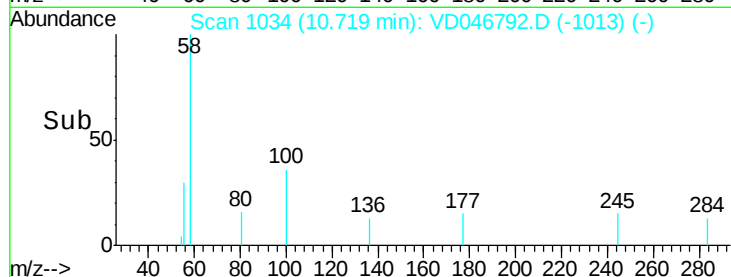
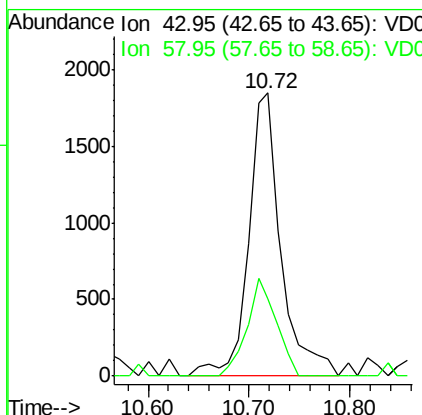
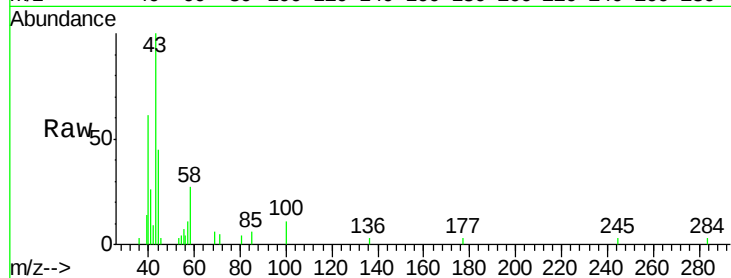




#59
2-Hexanone
Concen: 7.17 ug/l
RT: 10.72 min Scan# 1034
Delta R.T. 0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

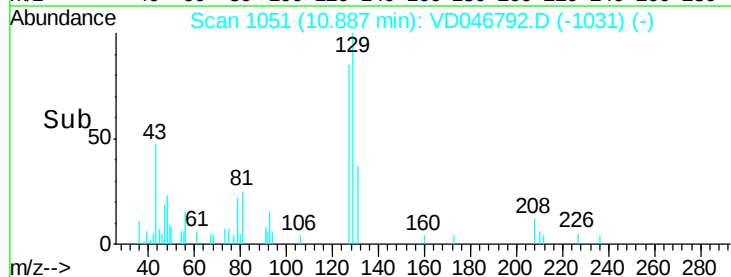
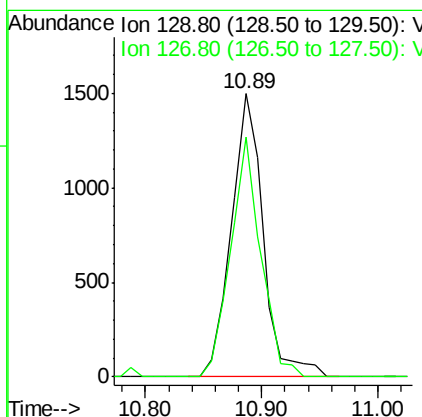
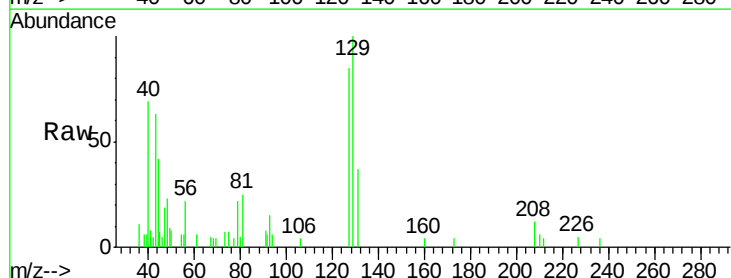
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

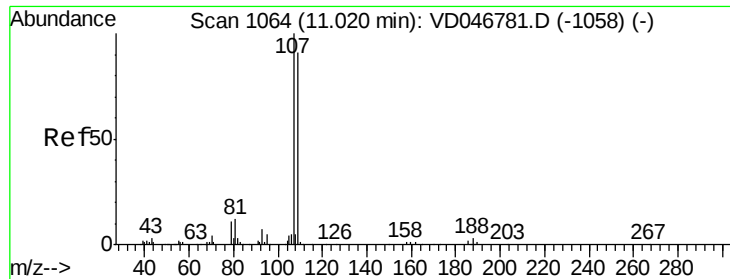
Tgt Ion: 43 Resp: 4132
Ion Ratio Lower Upper
43 100
58 27.1 18.6 55.8



#60
Dibromochloromethane
Concen: 1.94 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion: 129 Resp: 2837
Ion Ratio Lower Upper
129 100
127 84.6 38.2 114.6

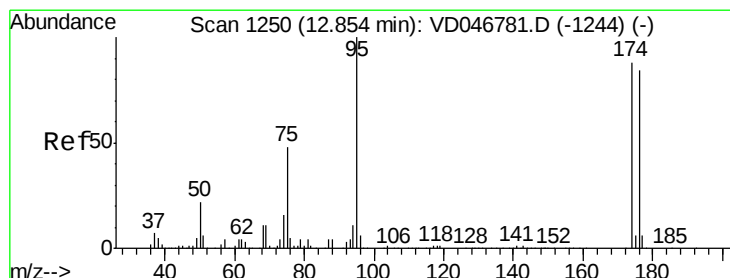
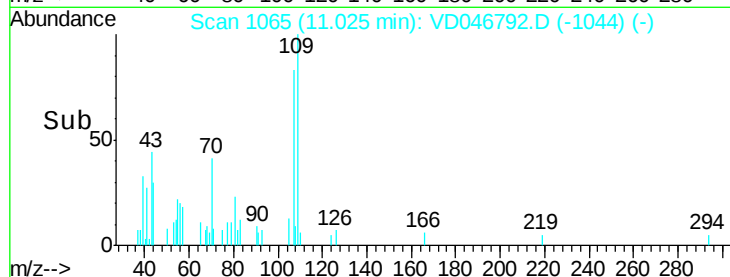
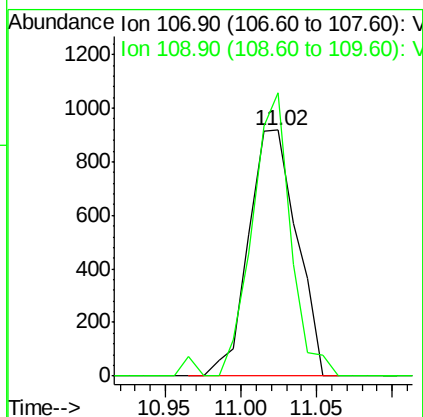
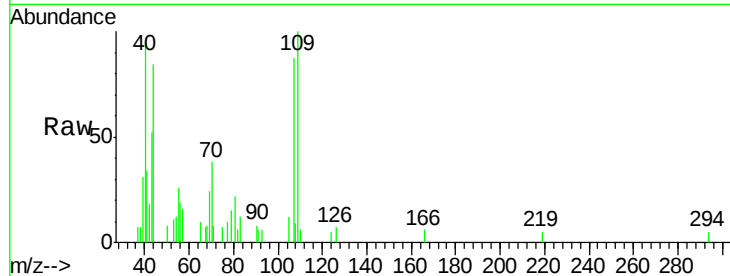




#61
 1,2-Dibromoethane
 Concen: 1.95 ug/l
 RT: 11.02 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

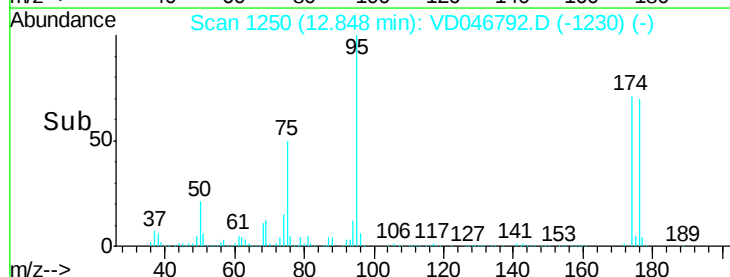
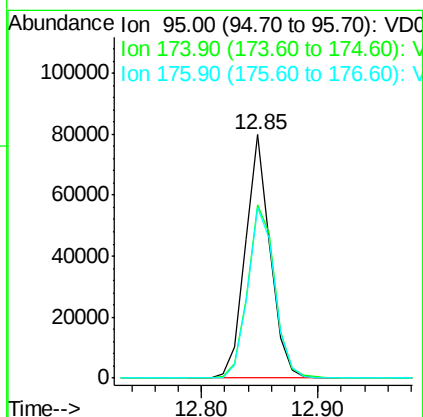
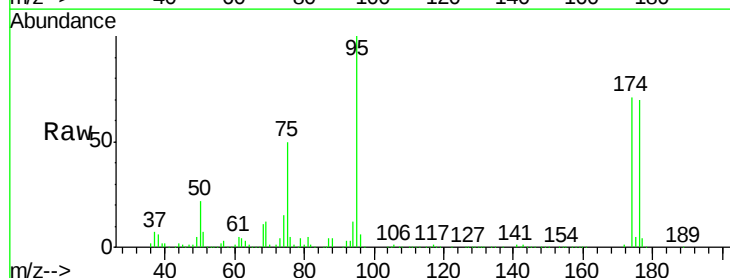
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

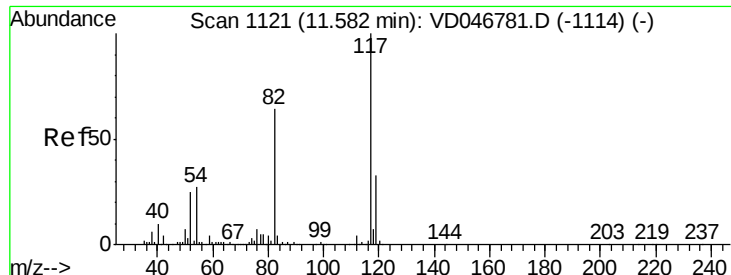
Tgt Ion: 107 Resp: 2044
 Ion Ratio Lower Upper
 107 100
 109 115.1 71.4 107.0#



#62
 4-Bromofluorobenzene
 Concen: 1.95 ug/l
 RT: 12.85 min Scan# 1250
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion: 95 Resp: 117270
 Ion Ratio Lower Upper
 95 100
 174 71.0 0.0 149.8
 176 70.3 0.0 143.4

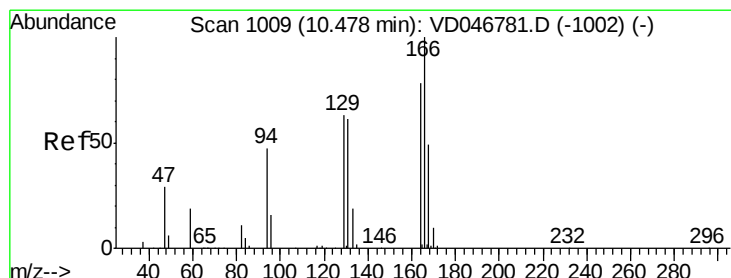
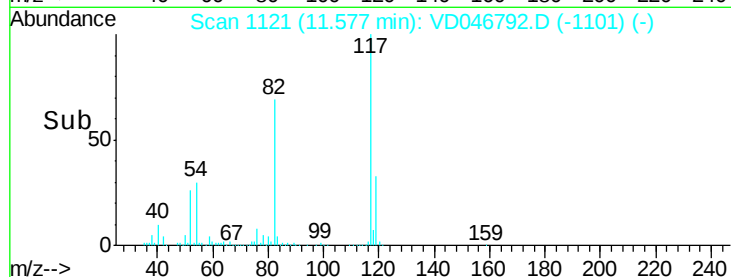
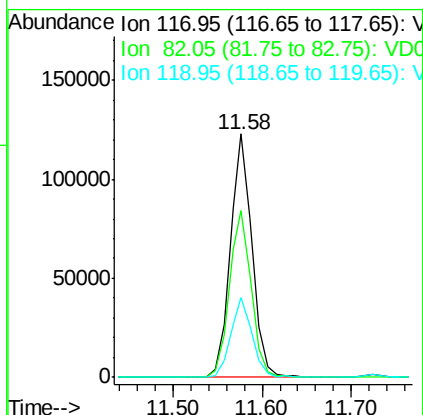
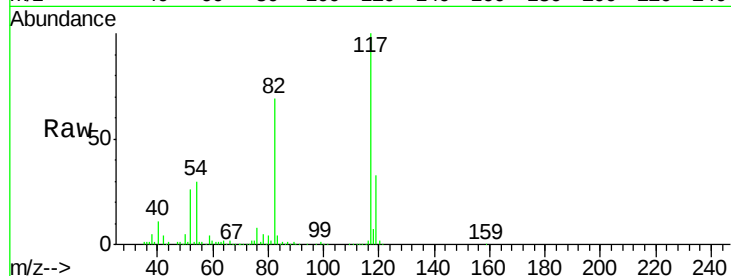




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

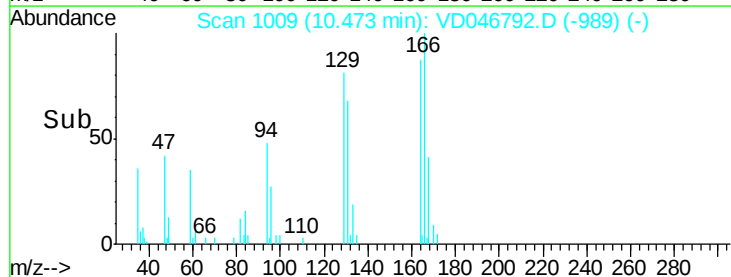
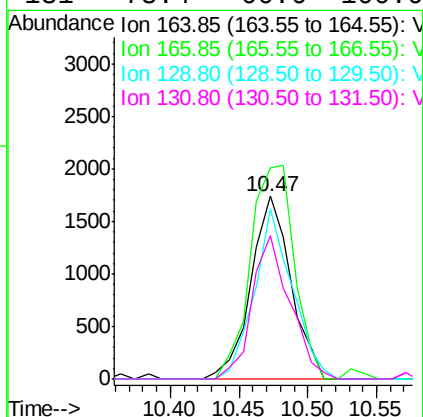
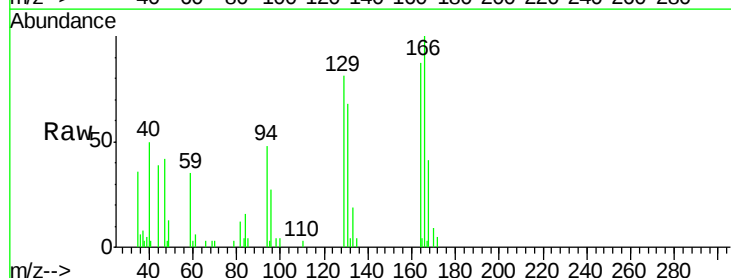
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

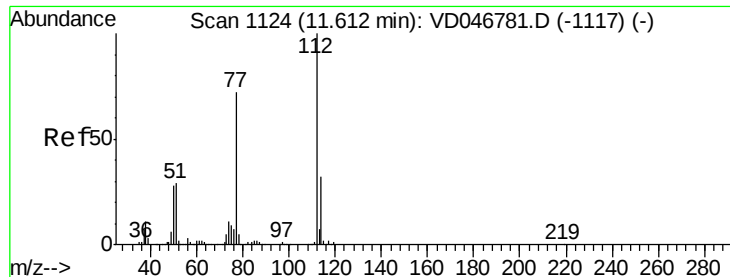
Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.6	50.6	75.8
119	32.8	25.8	38.8



#64
Tetrachloroethene
Concen: 2.08 ug/l
RT: 10.47 min Scan# 1009
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.2	106.8	160.2
129	92.7	70.6	106.0
131	78.4	66.6	100.0

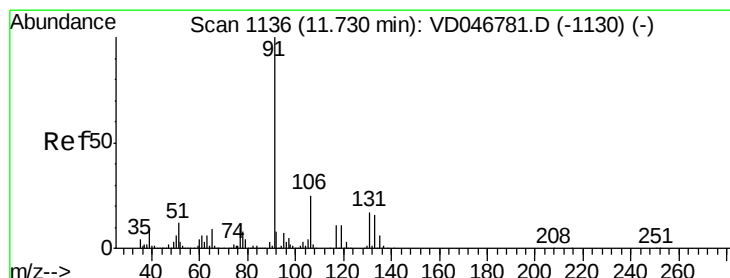
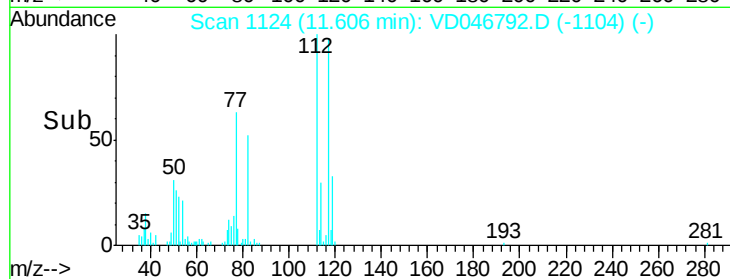
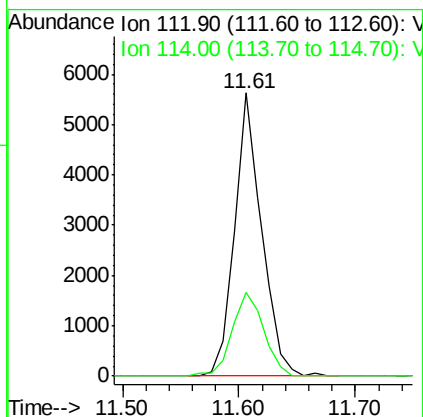
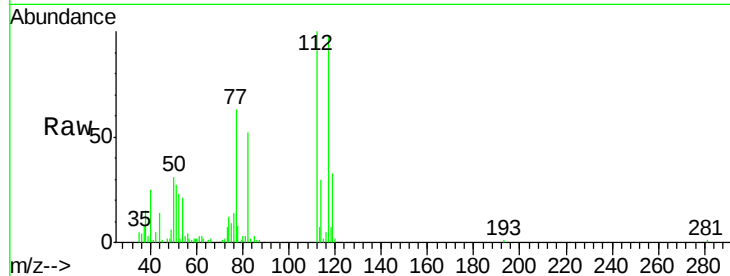




#65
Chlorobenzene
Concen: 2.05 ug/l
RT: 11.61 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

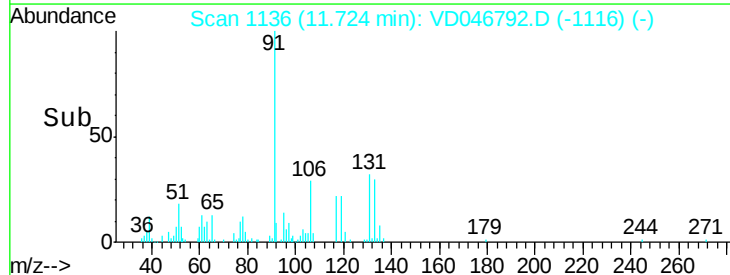
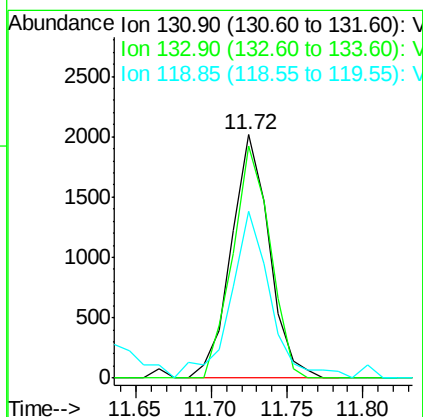
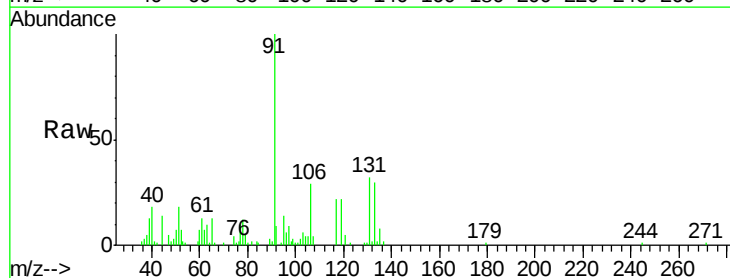
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

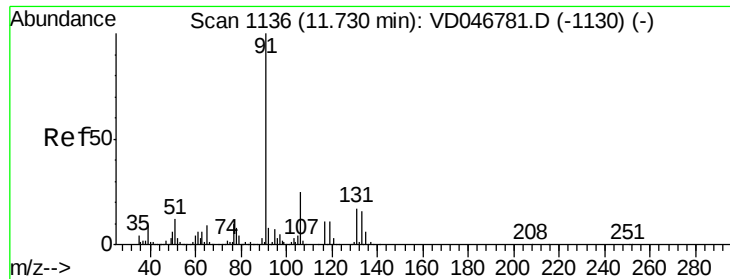
Tgt Ion:112 Resp: 9042
Ion Ratio Lower Upper
112 100
114 29.5 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 2.17 ug/l
RT: 11.72 min Scan# 1136
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion:131 Resp: 3514
Ion Ratio Lower Upper
131 100
133 95.2 48.4 145.0
119 68.3 31.5 94.5





#67

Ethyl Benzene

Concen: 1.75 ug/l

RT: 11.73 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

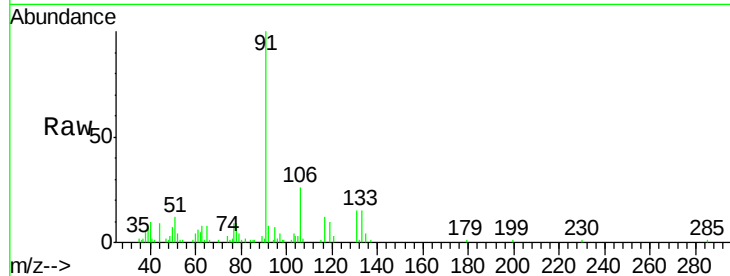
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 15521

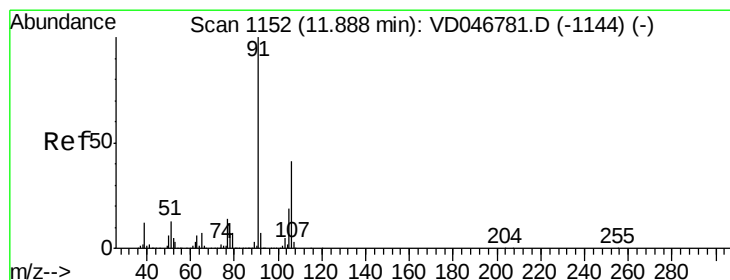
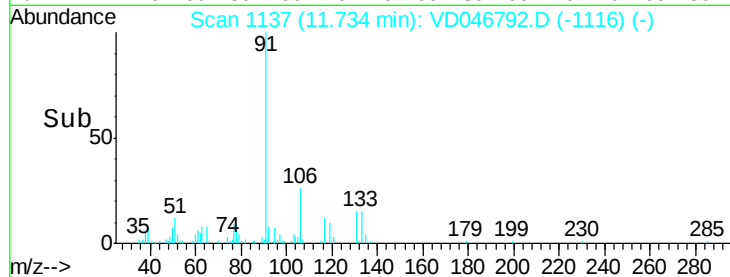
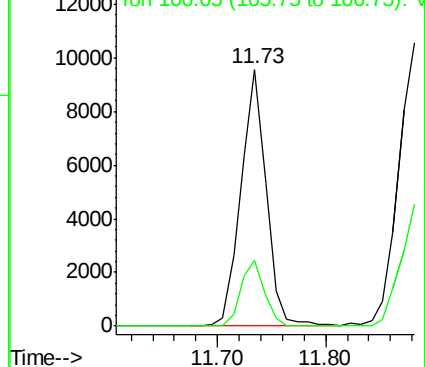
Ion Ratio Lower Upper

91 100

106 25.6 20.2 30.2



Abundance Ion 91.00 (90.70 to 91.70): VD046781.D (-1130) (-)



#68

m/p-Xylenes

Concen: 3.30 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. -0.01 min

Lab File: VD046792.D

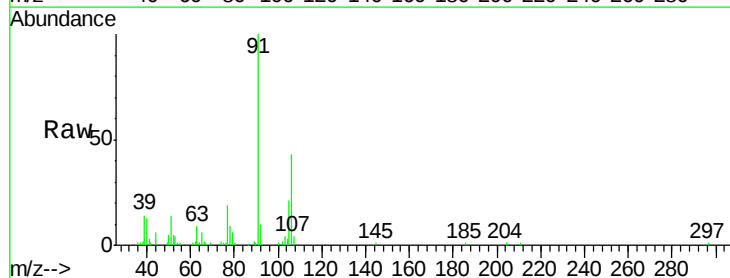
Acq: 18 Sep 2015 20:12

Tgt Ion: 106 Resp: 9243

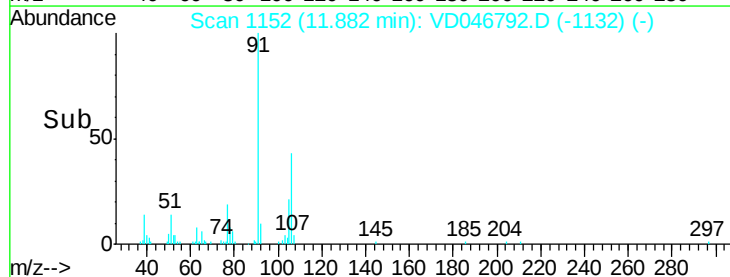
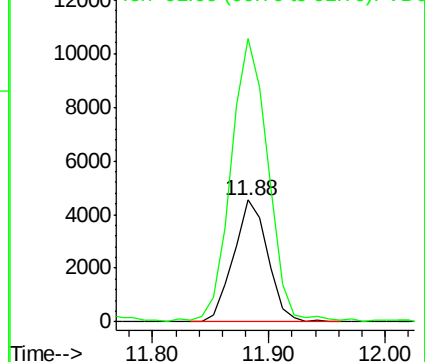
Ion Ratio Lower Upper

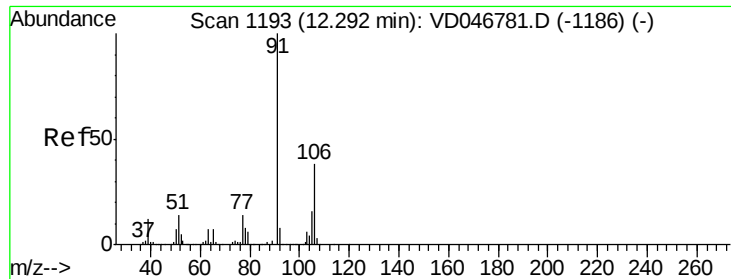
106 100

91 232.4 187.9 281.9



Abundance Ion 106.05 (105.75 to 106.75): VD046781.D (-1144) (-)

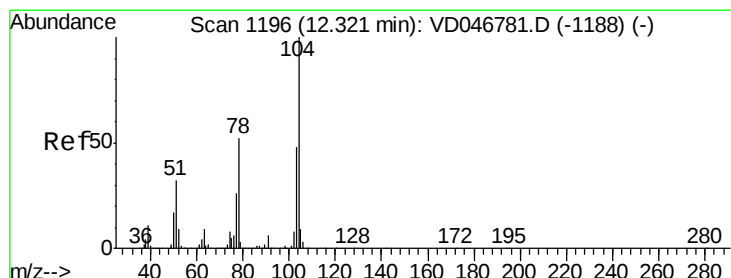
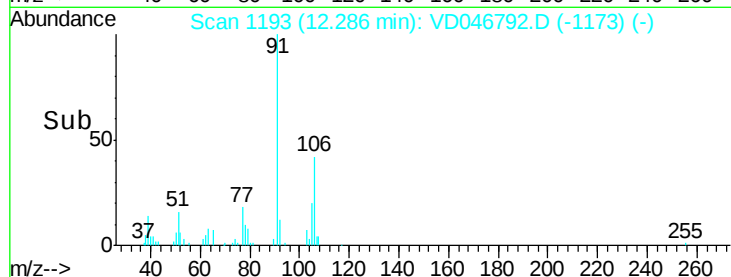
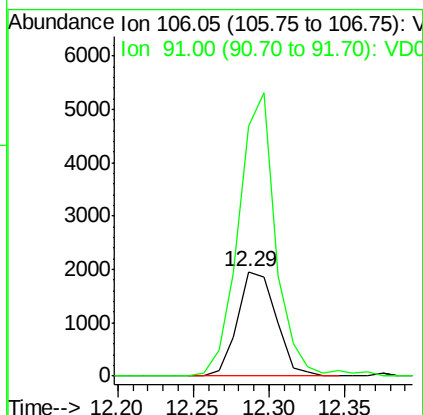
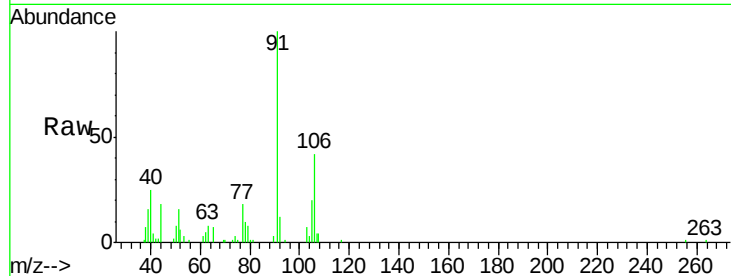




#69
o-Xylene
Concen: 1.38 ug/l
RT: 12.29 min Scan# 1193
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

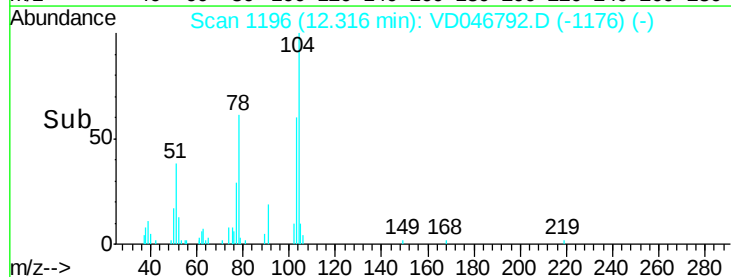
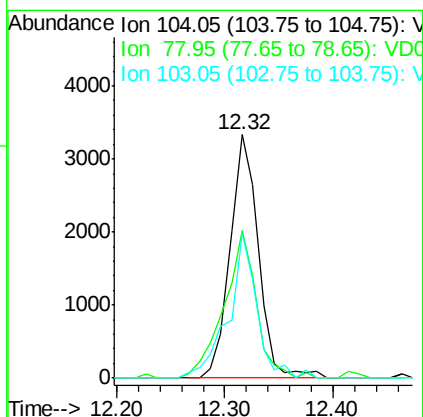
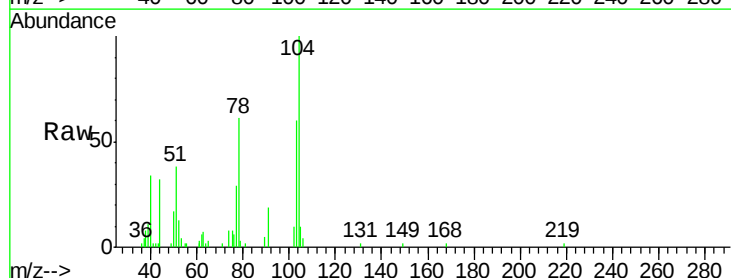
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

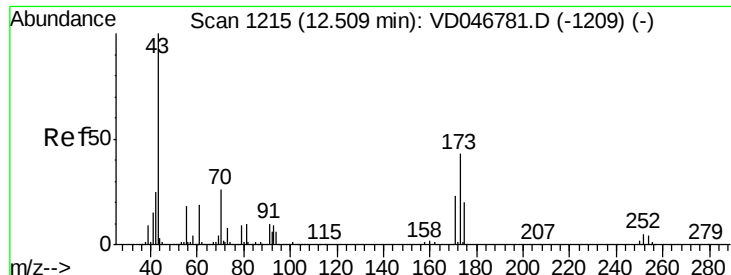
Tgt Ion:106 Resp: 3476
Ion Ratio Lower Upper
106 100
91 238.9 124.8 374.5



#70
Styrene
Concen: 1.39 ug/l
RT: 12.32 min Scan# 1196
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion:104 Resp: 6066
Ion Ratio Lower Upper
104 100
78 60.5 44.5 66.7
103 59.8 40.3 60.5





#71

Bromoform

Concen: 1.81 ug/l

RT: 12.50 min Scan# 1215

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

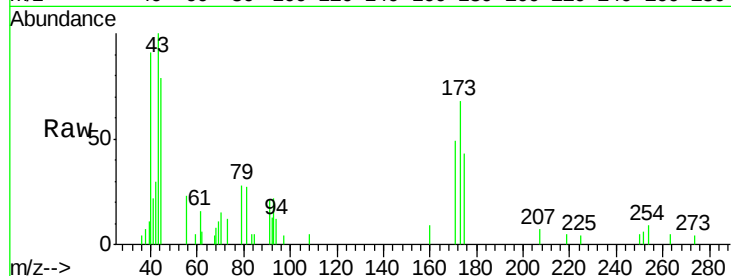
Tgt Ion:173 Resp: 1563

Ion Ratio Lower Upper

173 100

175 63.0 23.1 69.3

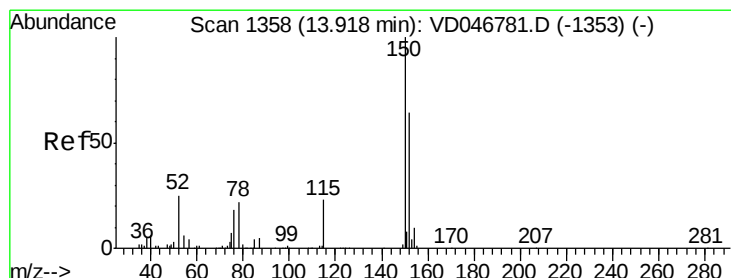
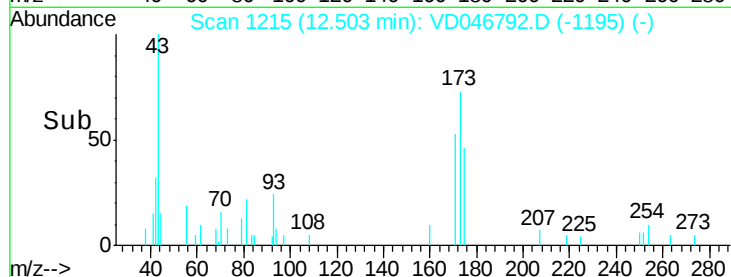
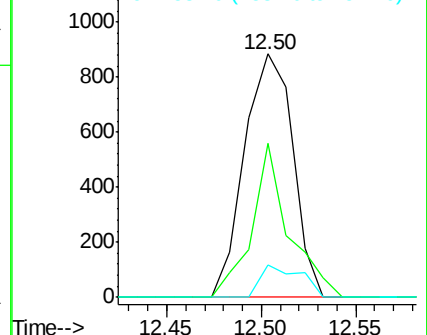
254 13.1 8.7 13.1#



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.92 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

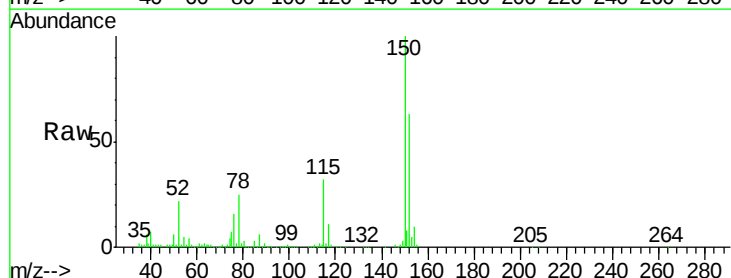
Tgt Ion:152 Resp: 108506

Ion Ratio Lower Upper

152 100

115 51.2 26.2 78.6

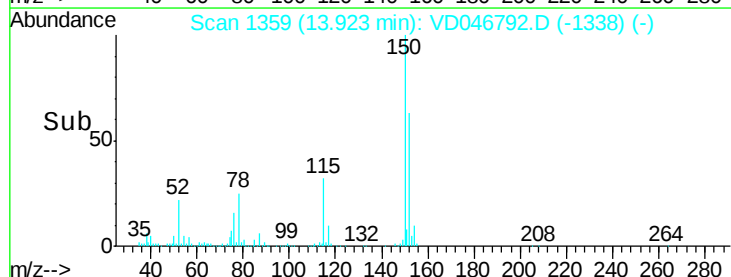
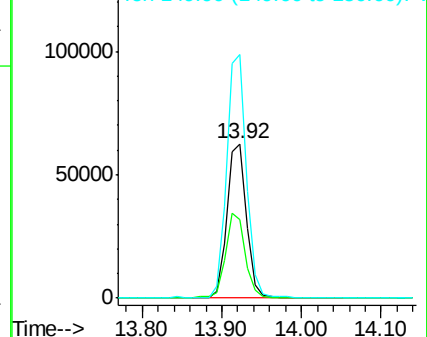
150 158.0 0.0 311.8

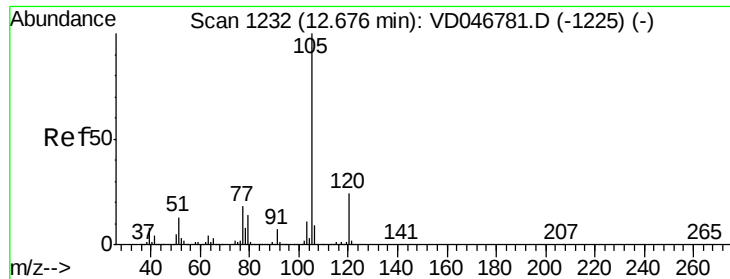


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.38 ug/l

RT: 12.67 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

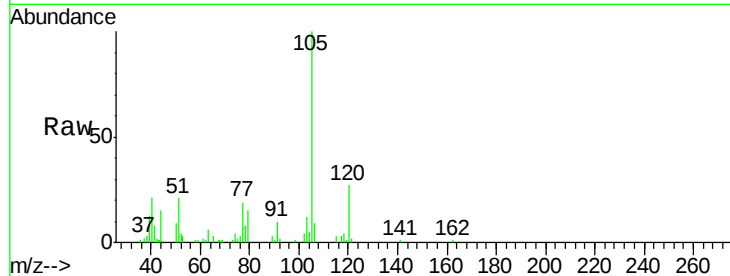
LOD-SOIL2015-01

Tgt Ion:105 Resp: 10564

Ion Ratio Lower Upper

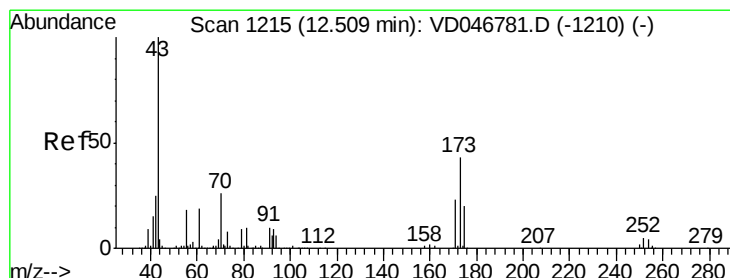
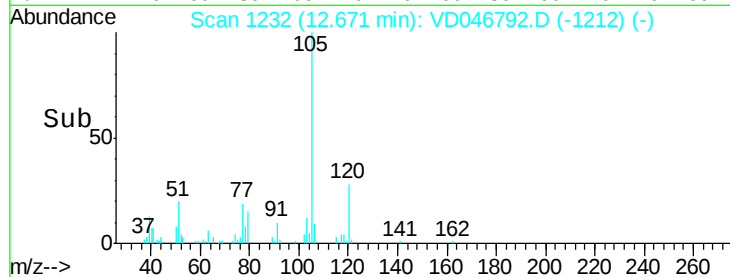
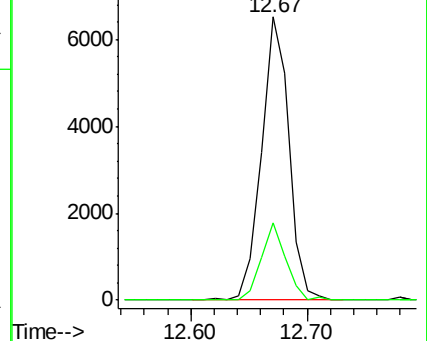
105 100

120 27.5 12.4 37.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 5.90 ug/l

RT: 12.50 min Scan# 1215

Delta R.T. -0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Tgt Ion: 43 Resp: 2515

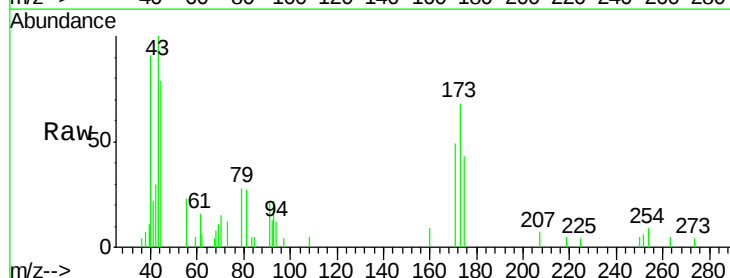
Ion Ratio Lower Upper

43 100

70 14.9 22.1 33.1#

55 23.0 14.5 21.7#

61 16.3 14.6 21.8

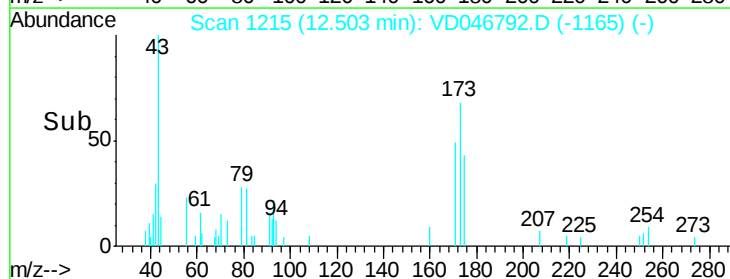
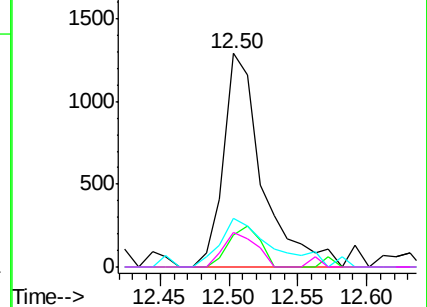


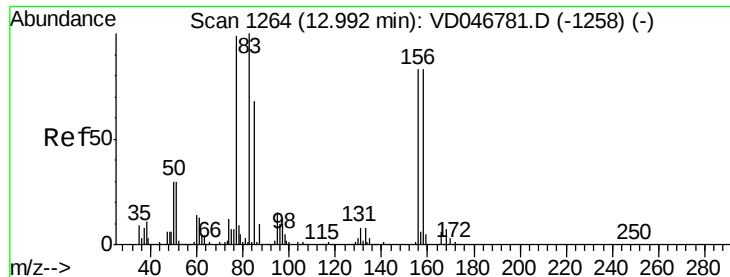
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 2.06 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

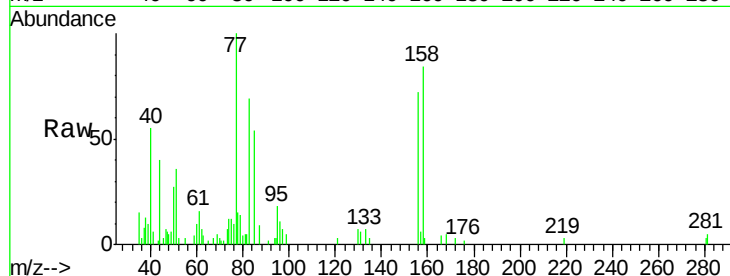
Tgt Ion: 83 Resp: 2541

Ion Ratio Lower Upper

83 100

131 8.3 3.9 11.7

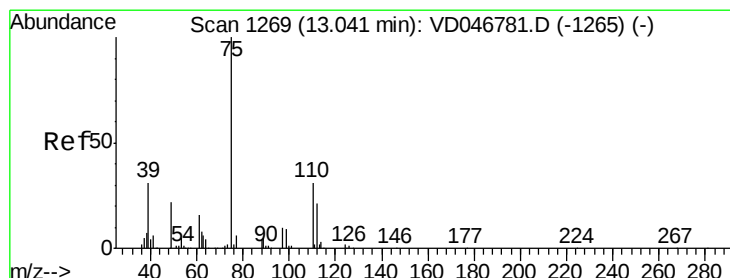
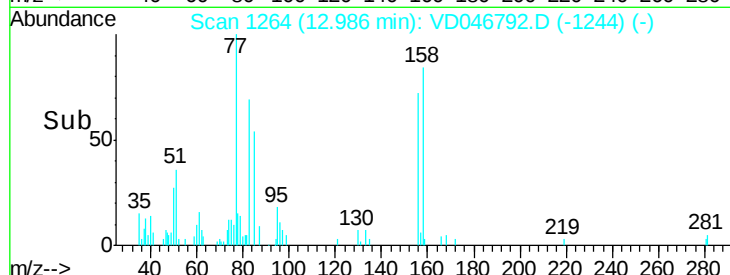
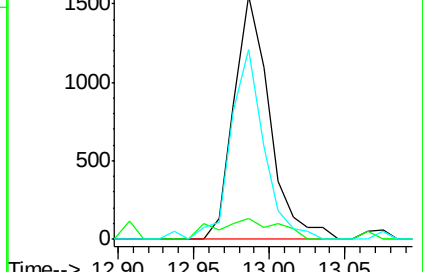
85 77.8 30.5 91.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 2.09 ug/l

RT: 13.04 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD046792.D

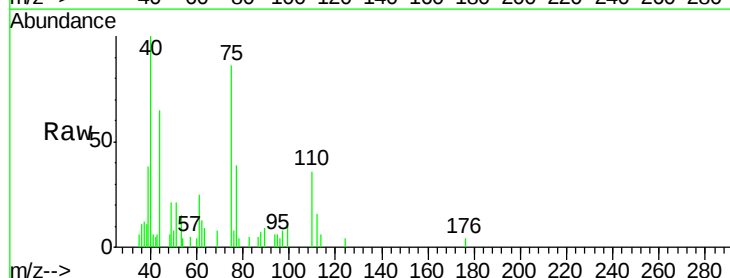
Acq: 18 Sep 2015 20:12

Tgt Ion: 75 Resp: 2758

Ion Ratio Lower Upper

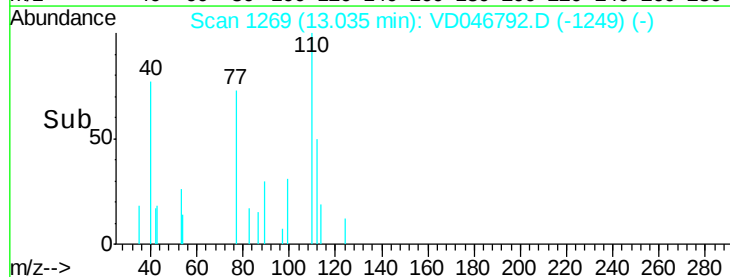
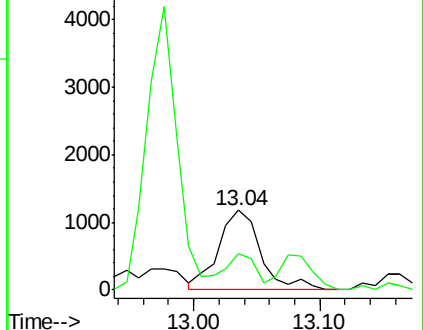
75 100

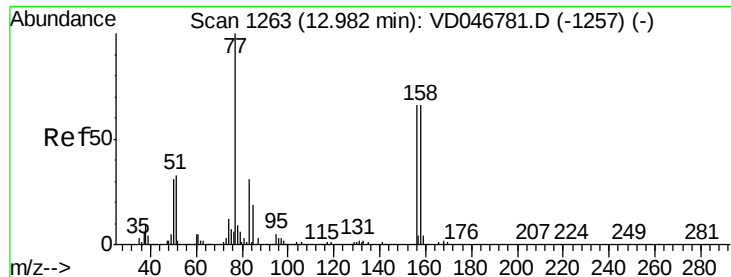
77 45.4 16.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 2.08 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

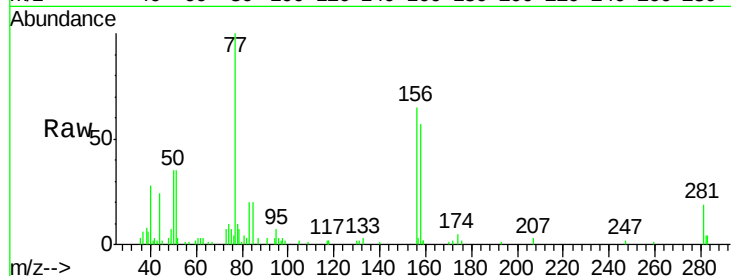
Tgt Ion:156 Resp: 3998

Ion Ratio Lower Upper

156 100

77 152.8 70.3 210.8

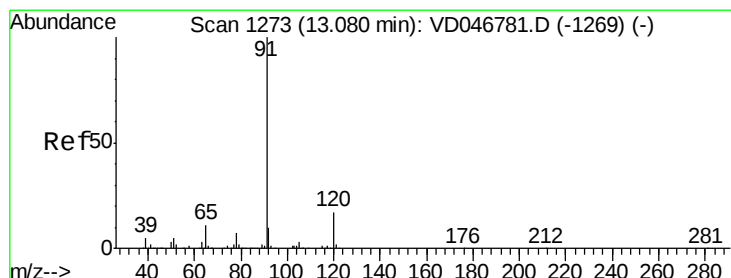
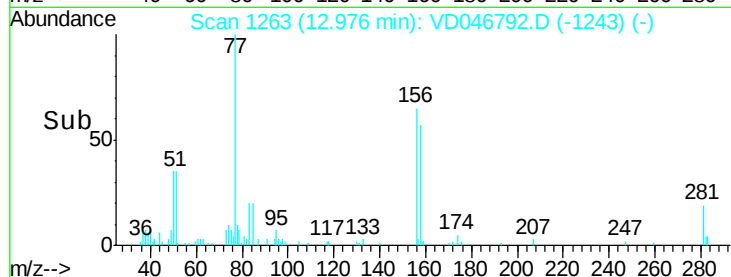
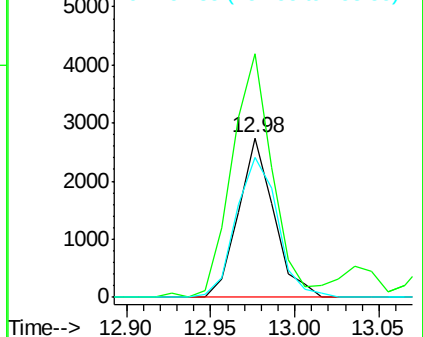
158 87.5 49.0 147.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 1.66 ug/l

RT: 13.07 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VD046792.D

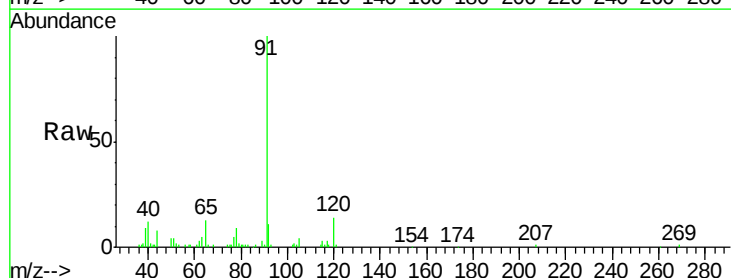
Acq: 18 Sep 2015 20:12

Tgt Ion: 91 Resp: 17923

Ion Ratio Lower Upper

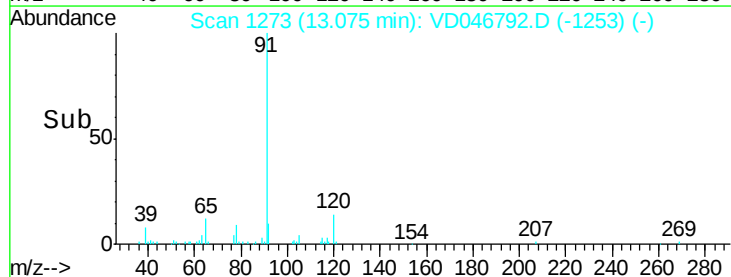
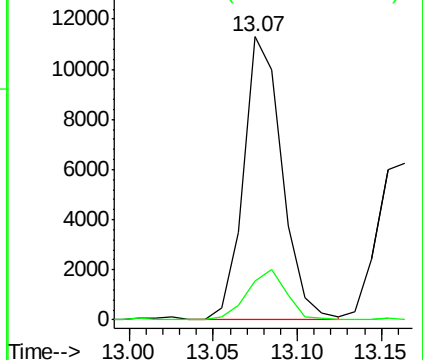
91 100

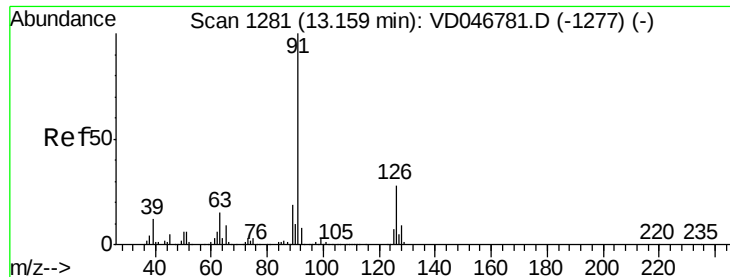
120 13.5 9.3 27.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 1.86 ug/l

RT: 13.16 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

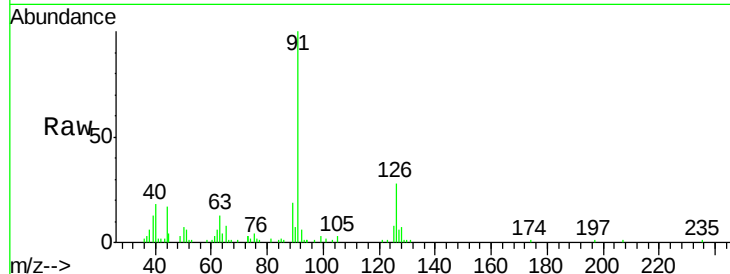
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 11137

Ion Ratio Lower Upper

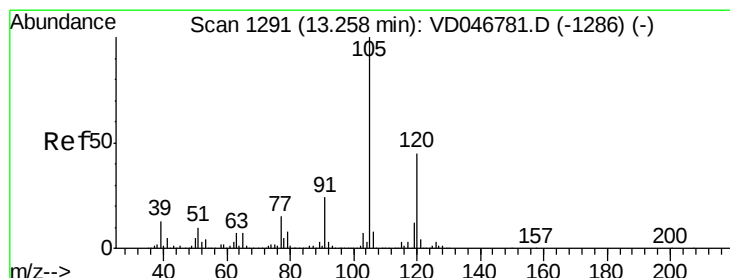
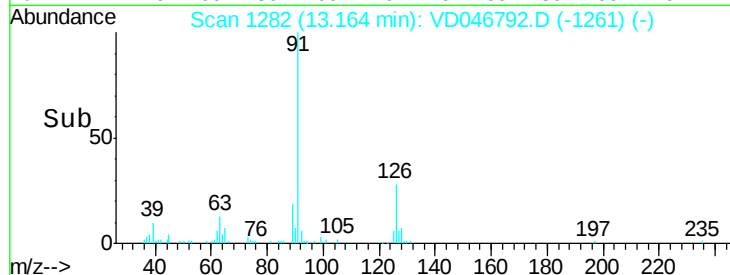
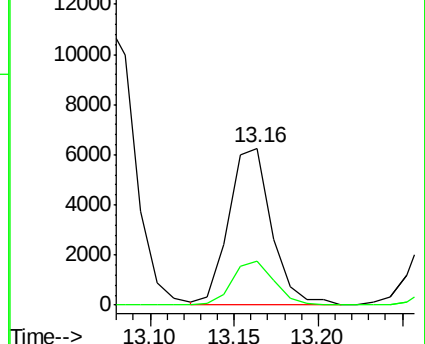
91 100

126 27.9 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): VD046781.D (-1277) (-)

Ion 125.95 (125.65 to 126.65): VD046781.D (-1277) (-)



#80

1,3,5-Trimethylbenzene

Concen: 1.52 ug/l

RT: 13.25 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VD046792.D

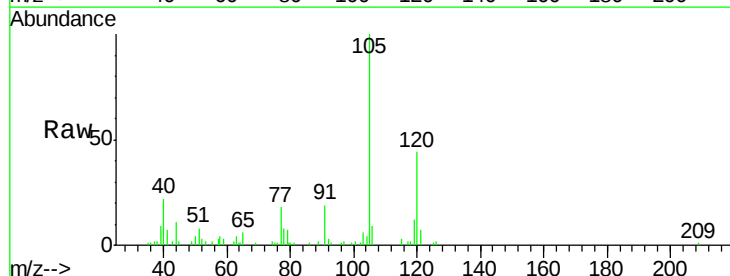
Acq: 18 Sep 2015 20:12

Tgt Ion: 105 Resp: 9236

Ion Ratio Lower Upper

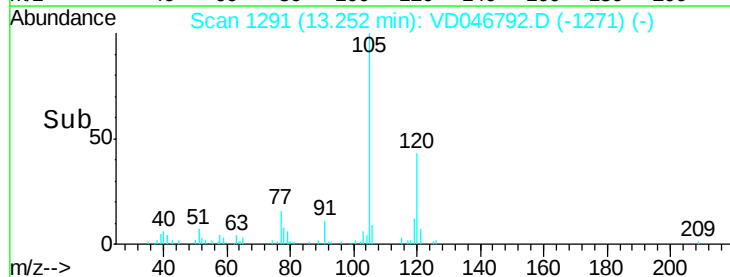
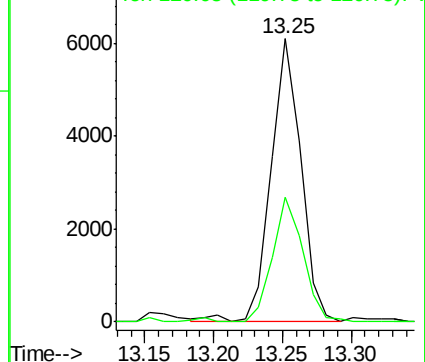
105 100

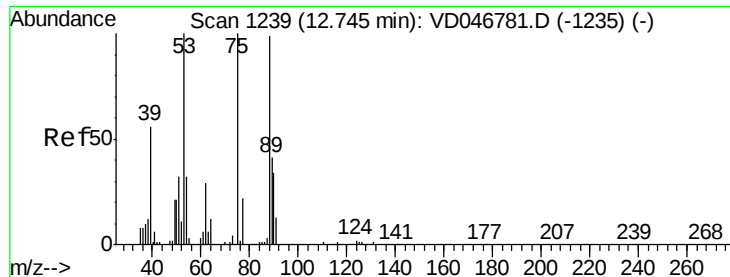
120 44.0 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): VD046781.D (-1286) (-)

Ion 120.05 (119.75 to 120.75): VD046781.D (-1286) (-)

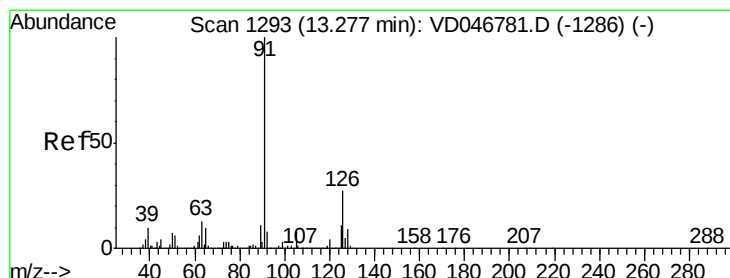
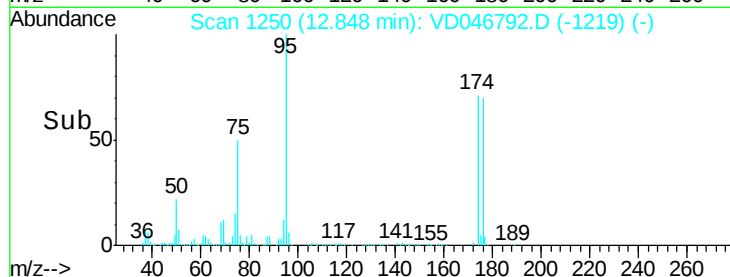
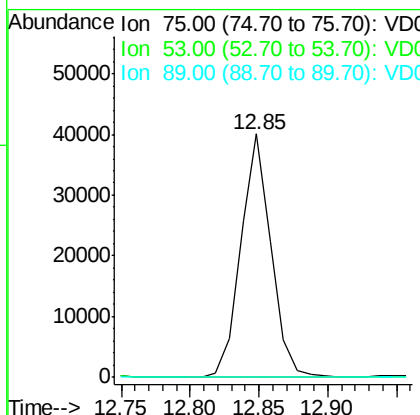
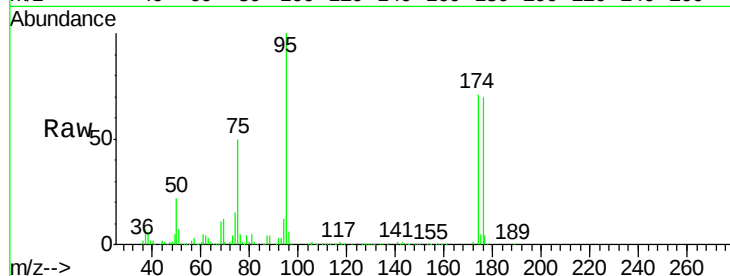




#81
trans-1,4-Dichloro-2-butene
Concen: 159.64 ug/l
RT: 12.85 min Scan# 1250
Delta R.T. 0.10 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

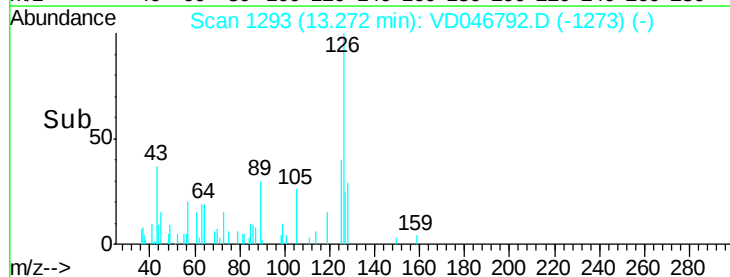
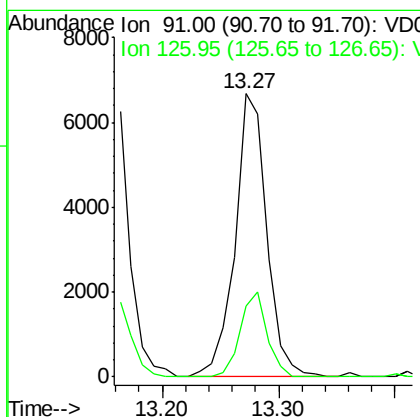
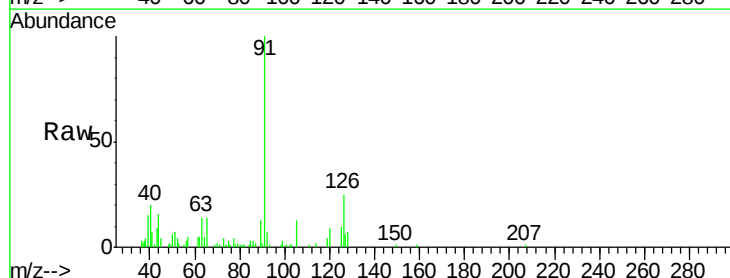
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

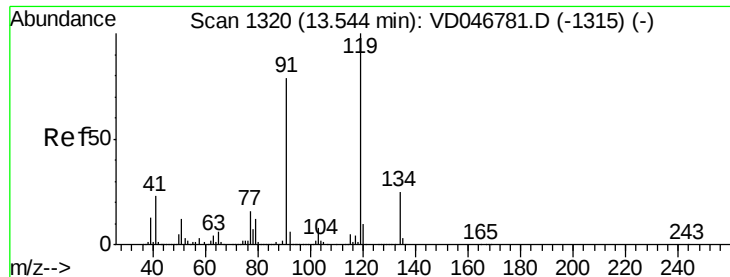
Tgt Ion: 75 Resp: 61260
Ion Ratio Lower Upper
75 100
53 0.2 82.3 123.5#
89 0.0 36.6 54.8#



#82
4-Chlorotoluene
Concen: 1.76 ug/l
RT: 13.27 min Scan# 1293
Delta R.T. -0.01 min
Lab File: VD046792.D
Acq: 18 Sep 2015 20:12

Tgt Ion: 91 Resp: 12587
Ion Ratio Lower Upper
91 100
126 25.3 14.1 42.4

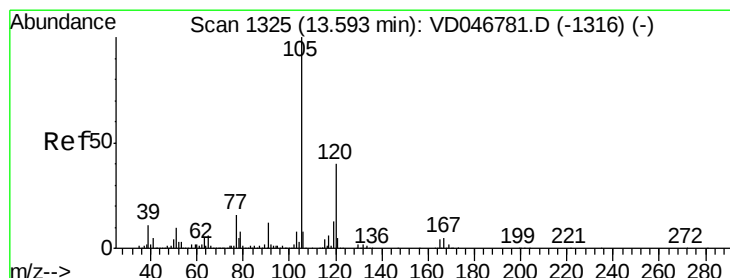
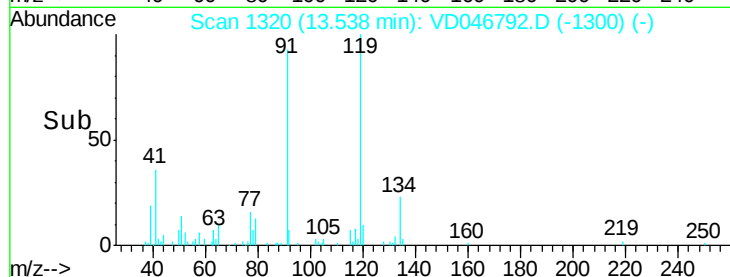
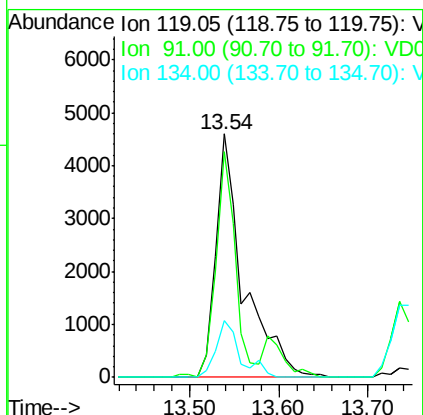
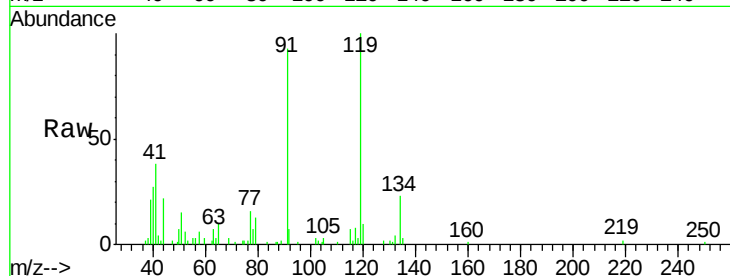




#83
 tert-Butylbenzene
 Concen: 1.82 ug/l
 RT: 13.54 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

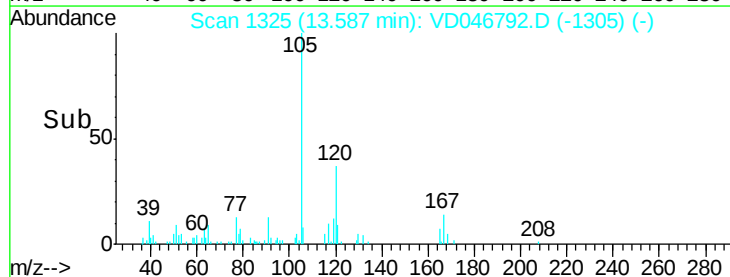
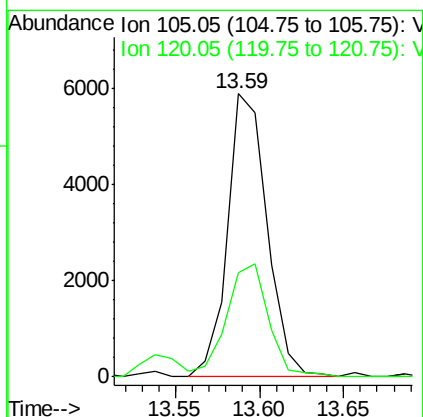
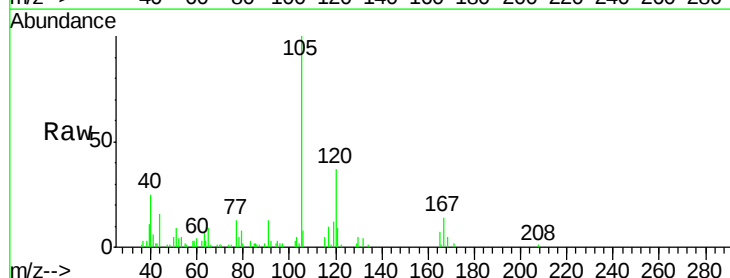
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

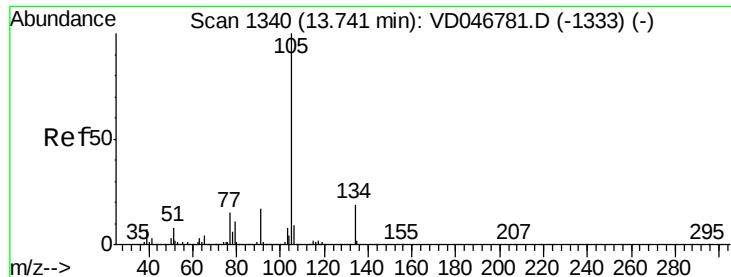
Tgt Ion:119 Resp: 9996
 Ion Ratio Lower Upper
 119 100
 91 92.5 41.6 124.9
 134 23.3 12.4 37.4



#84
 1,2,4-Trimethylbenzene
 Concen: 1.56 ug/l
 RT: 13.59 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion:105 Resp: 9600
 Ion Ratio Lower Upper
 105 100
 120 36.8 21.1 63.1

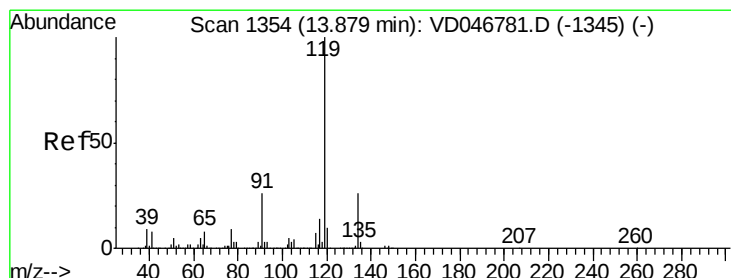
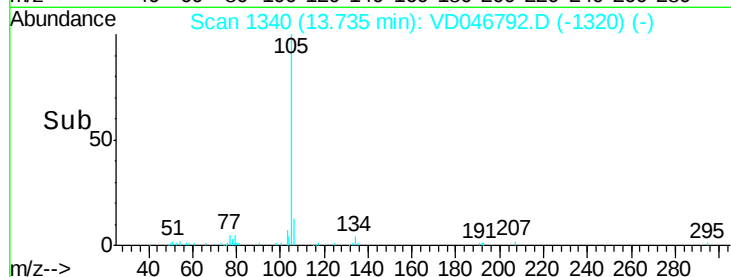
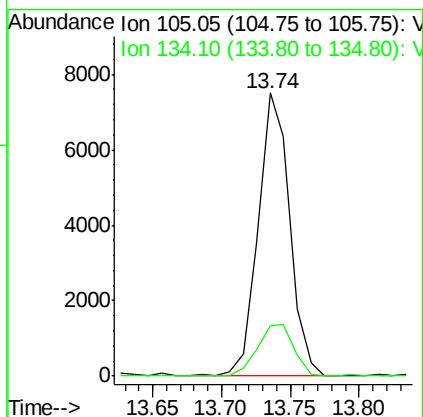
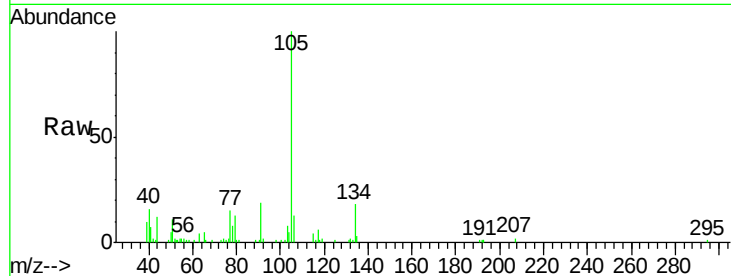




#85
 sec-Butylbenzene
 Concen: 1.48 ug/l
 RT: 13.74 min Scan# 1340
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

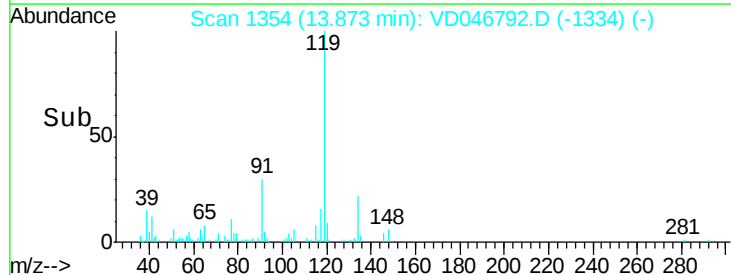
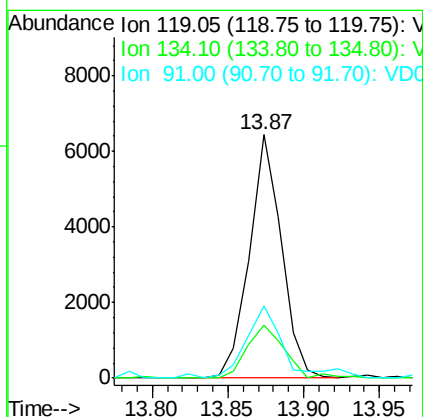
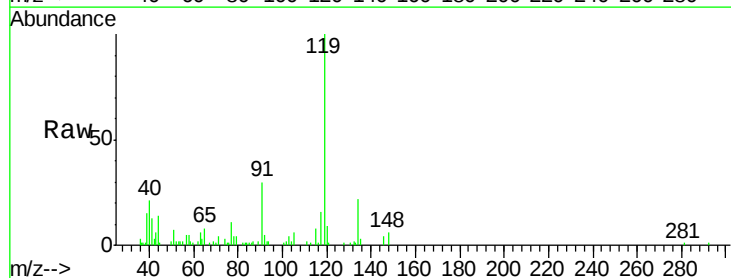
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

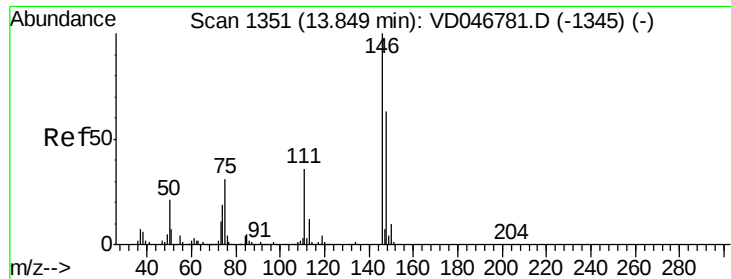
Tgt Ion:105 Resp: 11961
 Ion Ratio Lower Upper
 105 100
 134 18.0 10.1 30.3



#86
 p-Isopropyltoluene
 Concen: 1.51 ug/l
 RT: 13.87 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion:119 Resp: 9566
 Ion Ratio Lower Upper
 119 100
 134 22.0 13.0 38.9
 91 29.6 13.8 41.3

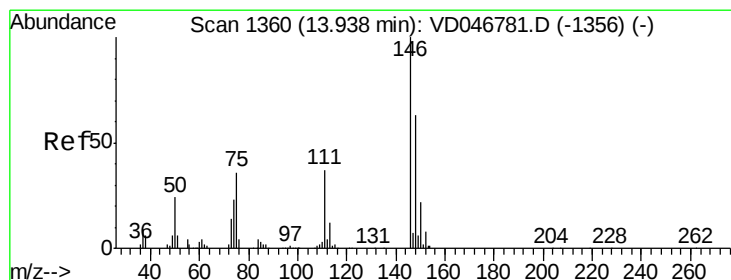
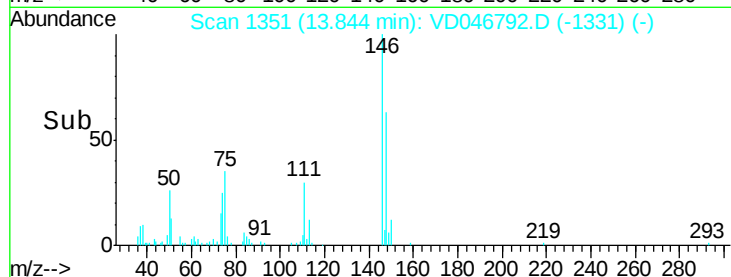
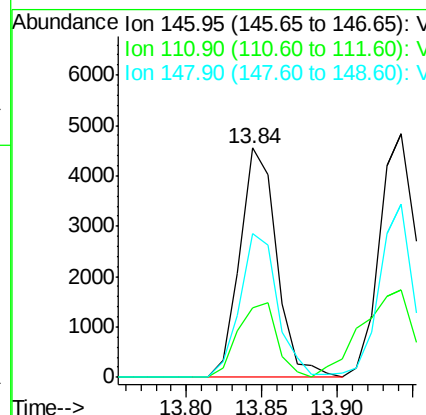
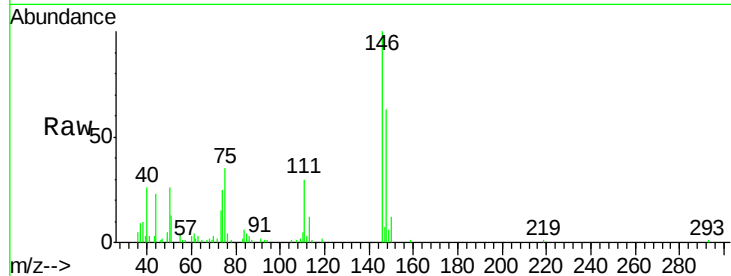




#87
 1,3-Dichlorobenzene
 Concen: 2.14 ug/l
 RT: 13.84 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

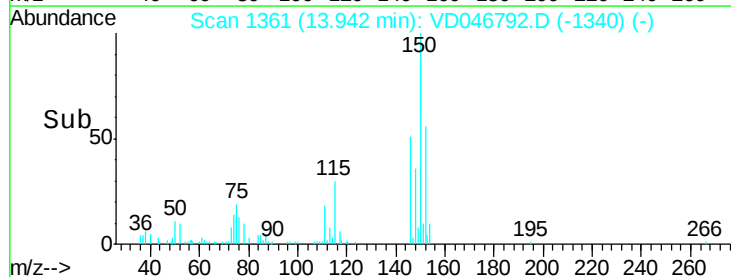
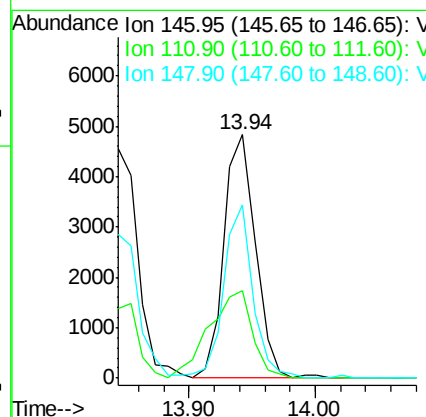
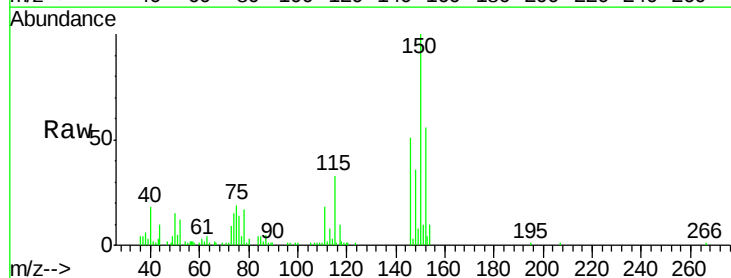
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

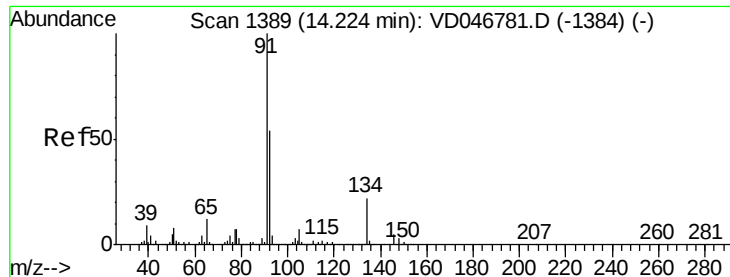
Tgt Ion:146 Resp: 7691
 Ion Ratio Lower Upper
 146 100
 111 30.4 17.4 52.2
 148 63.0 33.0 99.0



#88
 1,4-Dichlorobenzene
 Concen: 2.35 ug/l
 RT: 13.94 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion:146 Resp: 8379
 Ion Ratio Lower Upper
 146 100
 111 36.1 17.0 51.0
 148 71.1 31.9 95.7





#89

n-Butylbenzene

Concen: 1.49 ug/l

RT: 14.22 min Scan# 1389

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

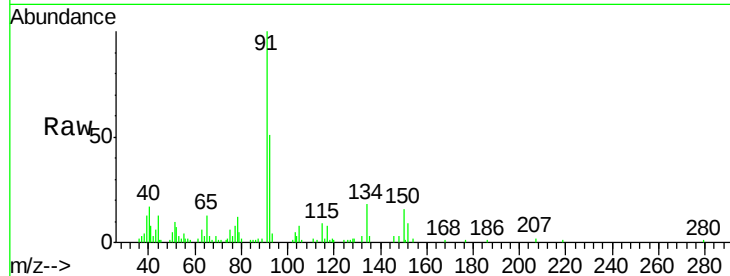
Tgt Ion: 91 Resp: 10698

Ion Ratio Lower Upper

91 100

92 51.4 27.1 81.2

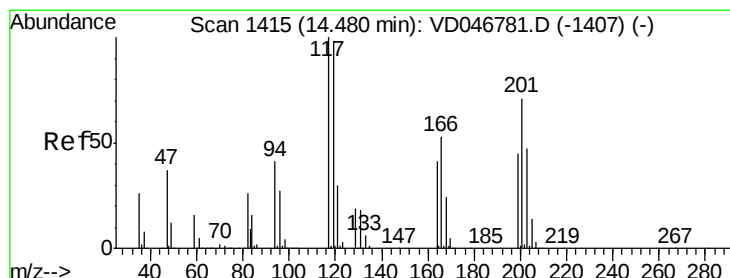
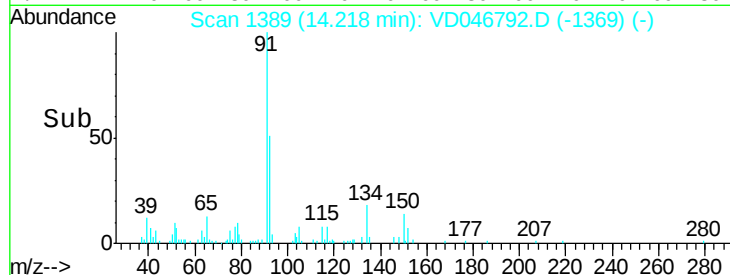
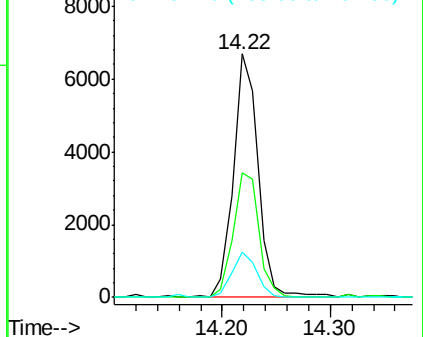
134 18.4 9.6 28.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 2.05 ug/l

RT: 14.48 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VD046792.D

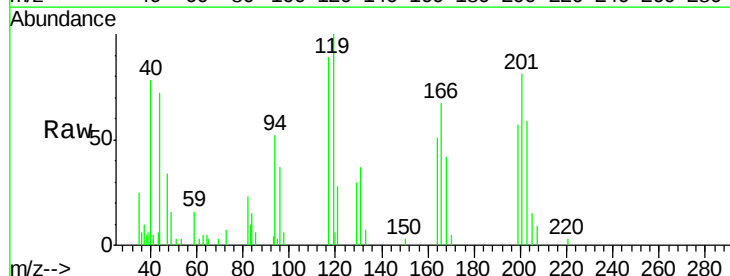
Acq: 18 Sep 2015 20:12

Tgt Ion: 117 Resp: 3017

Ion Ratio Lower Upper

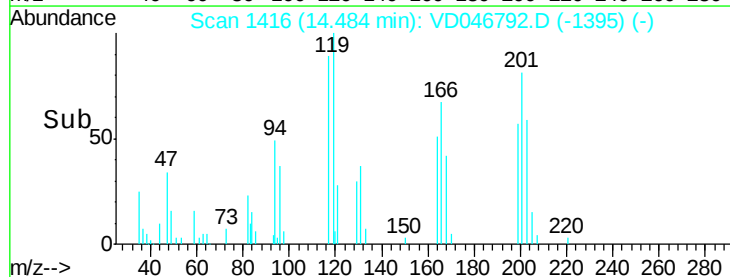
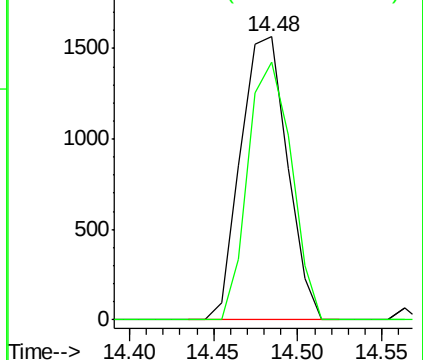
117 100

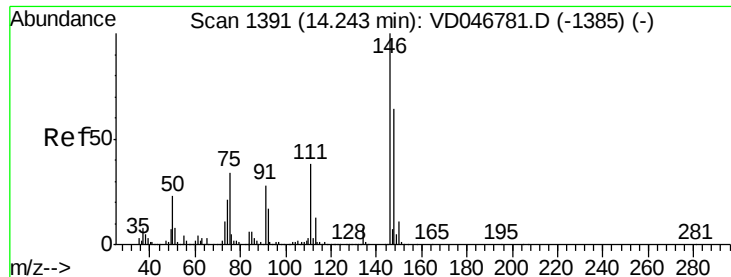
201 91.2 41.0 123.0



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC





#91

1,2-Dichlorobenzene

Concen: 1.98 ug/l

RT: 14.25 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

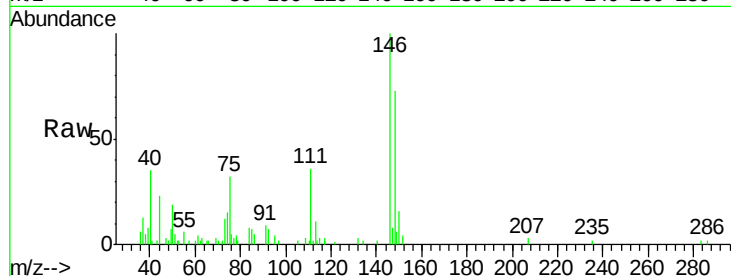
Tgt Ion:146 Resp: 5977

Ion Ratio Lower Upper

146 100

111 36.1 18.2 54.6

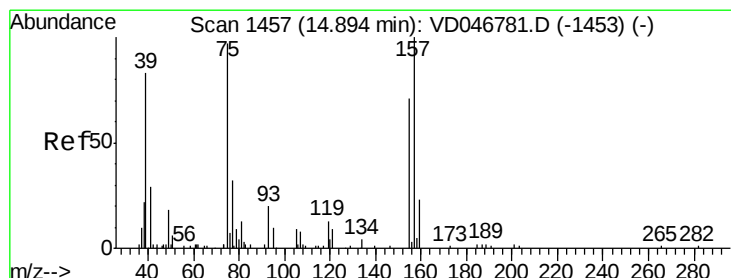
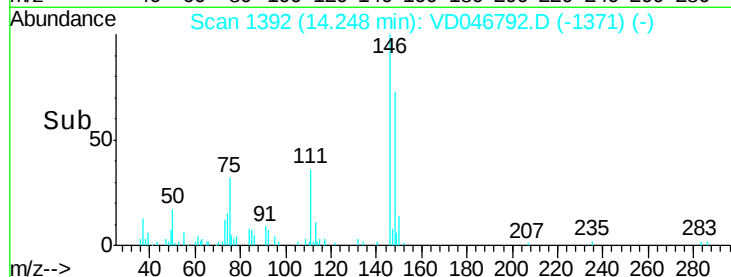
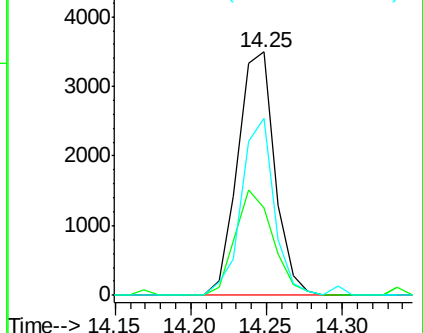
148 72.7 31.1 93.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.96 ug/l

RT: 14.90 min Scan# 1458

Delta R.T. 0.00 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

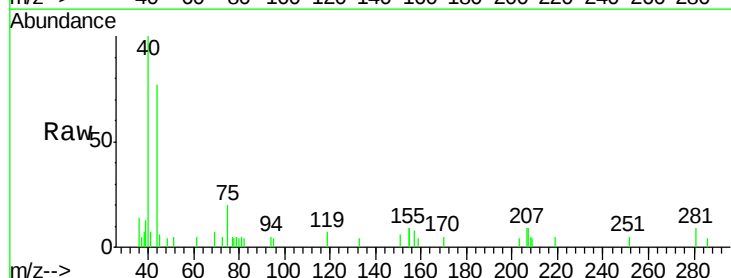
Tgt Ion: 75 Resp: 470

Ion Ratio Lower Upper

75 100

155 89.1 41.4 124.4

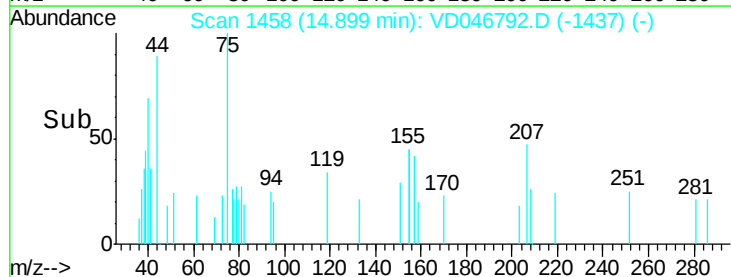
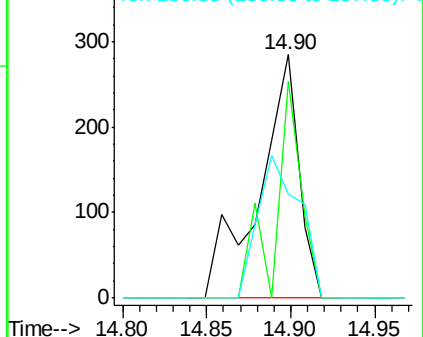
157 42.5 65.0 195.1#

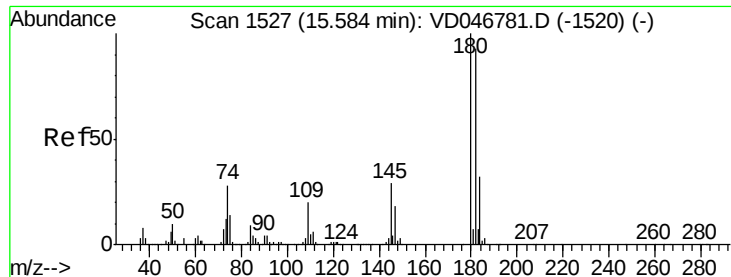


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

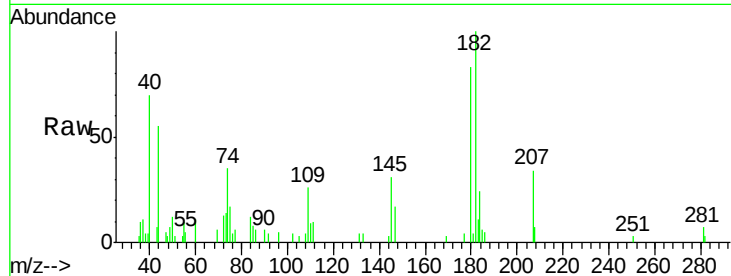




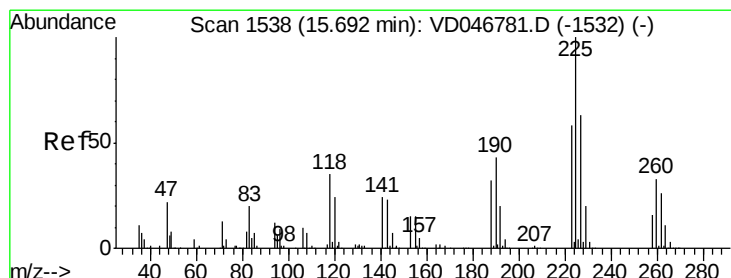
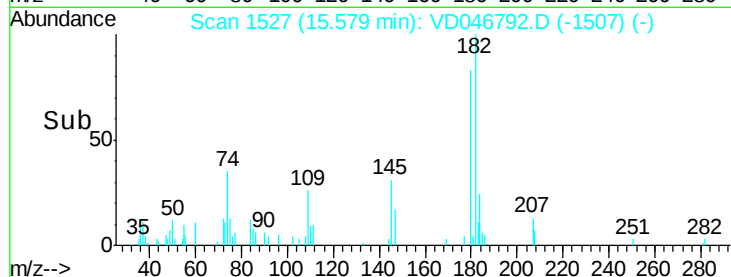
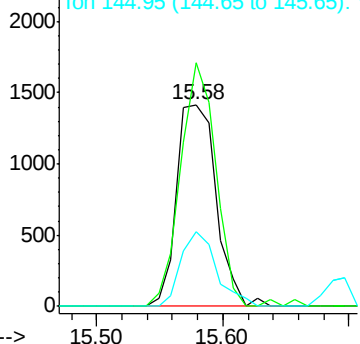
#93
 1,2,4-Trichlorobenzene
 Concen: 1.77 ug/l
 RT: 15.58 min Scan# 1527
 Delta R.T. -0.01 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion:180 Resp: 3074
 Ion Ratio Lower Upper
 180 100
 182 120.6 47.5 142.5
 145 36.8 14.6 44.0

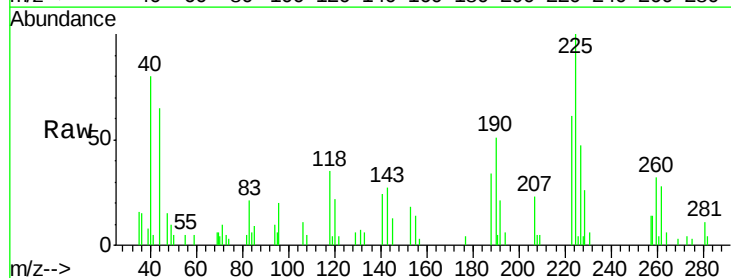


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

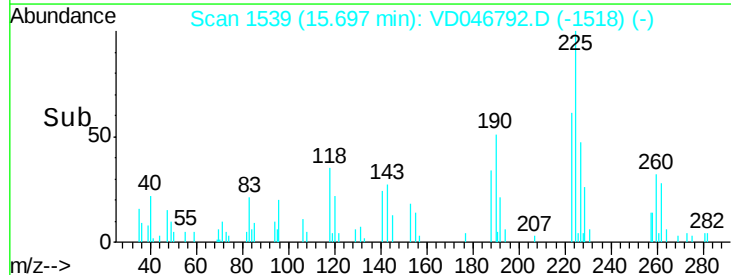
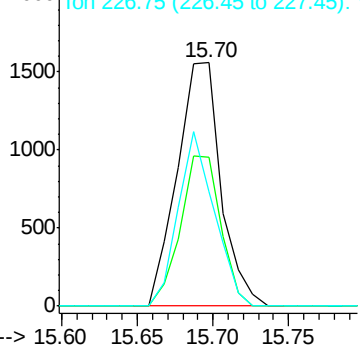


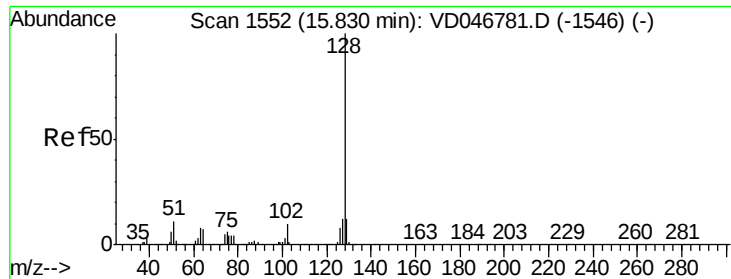
#94
 Hexachlorobutadiene
 Concen: 2.20 ug/l
 RT: 15.70 min Scan# 1539
 Delta R.T. 0.00 min
 Lab File: VD046792.D
 Acq: 18 Sep 2015 20:12

Tgt Ion:225 Resp: 3140
 Ion Ratio Lower Upper
 225 100
 223 61.3 30.4 91.2
 227 47.0 31.3 93.9



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 3.60 ug/l

RT: 15.82 min Scan# 1551

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

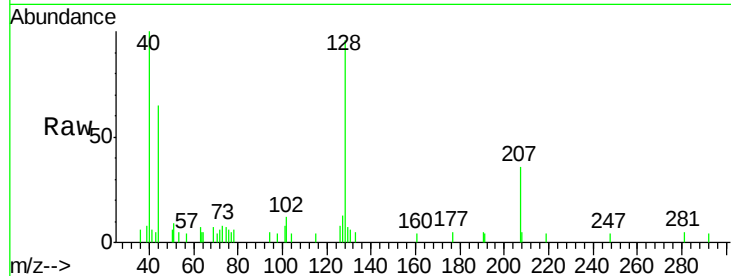
Tgt Ion:128 Resp: 2951

Ion Ratio Lower Upper

128 100

127 13.4 9.8 14.6

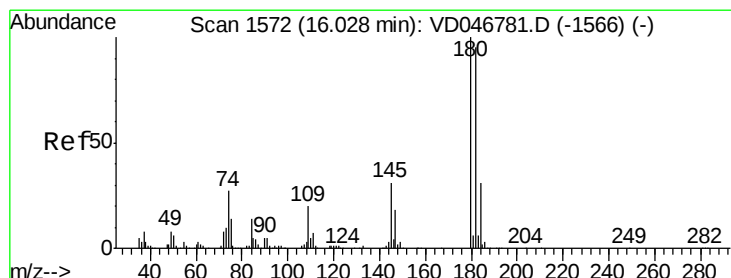
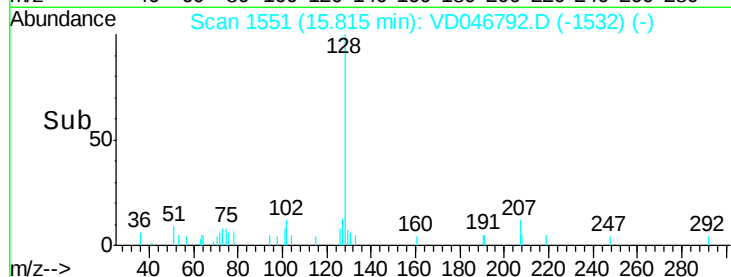
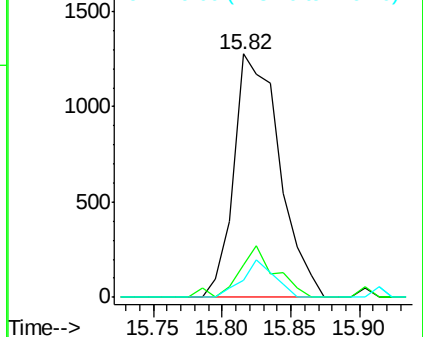
129 7.3 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.06 ug/l

RT: 16.02 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VD046792.D

Acq: 18 Sep 2015 20:12

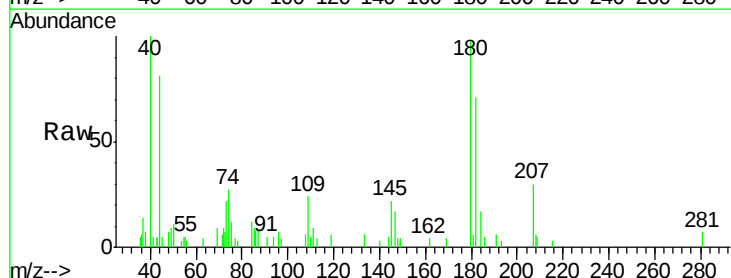
Tgt Ion:180 Resp: 2981

Ion Ratio Lower Upper

180 100

182 72.5 47.4 142.3

145 22.2 15.4 46.4



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

