

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD091815\
 Data File : VD046794.D
 Acq On : 18 Sep 2015 21:07
 Operator : FY/SY
 Sample : G3707-03LOD 4ppb
 Misc : 5.00gm/5mL/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Quant Time: Sep 19 00:12:43 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	6.30	168	168271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.43	114	230794	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	219753	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.91	152	115734	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.72	65	100674	57.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.08%	
35) Dibromofluoromethane	6.22	113	94193	52.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.32%	
50) Toluene-d8	9.62	98	304171	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
62) 4-Bromofluorobenzene	12.85	95	118374	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.42	85	10808	2.79	ug/l	99
3) Chlorodifluoromethane	1.43	51	11193	3.60	ug/l #	90
4) Chloromethane	1.58	50	4976	5.02	ug/l	98
5) Vinyl Chloride	1.68	62	4811	5.16	ug/l #	86
6) Bromomethane	1.98	94	5686	3.20	ug/l	95
7) Chloroethane	2.09	64	2947	5.05	ug/l #	76
8) Trichlorofluoromethane	2.33	101	14587	5.29	ug/l	100
9) Diethyl Ether	2.64	74	1857	3.80	ug/l	91
10) 1,1,2-Trichlorotrifluoroet	2.89	101	8483	4.92	ug/l #	91
11) Methyl Iodide	3.05	142	5499	4.37	ug/l	98
12) Tert butyl alcohol	3.66	59	4383	13.51	ug/l #	74
13) 1,1-Dichloroethene	2.88	96	6226	4.62	ug/l	81
14) Acrolein	2.78	56	1634	18.28	ug/l	94
15) Allyl chloride	3.33	41	10678	3.90	ug/l #	86
16) Acrylonitrile	3.84	53	4525	22.15	ug/l	94
17) Acetone	2.95	43	6527	22.08	ug/l #	87
18) Carbon Disulfide	3.13	76	23856	4.72	ug/l #	93
19) Methyl Acetate	3.35	43	8181	4.78	ug/l #	91
20) Methyl tert-butyl Ether	3.91	73	8156	3.86	ug/l	95
21) Methylene Chloride	3.50	84	11290	7.03	ug/l	93
22) trans-1,2-Dichloroethene	3.89	96	6658	4.38	ug/l	98
23) Diisopropyl ether	4.66	45	16789	3.69	ug/l #	82
24) Vinyl Acetate	4.61	43	14462	27.75	ug/l #	95
25) 1,1-Dichloroethane	4.56	63	13598	4.86	ug/l	99
26) 2-Butanone	5.46	43	6746	20.30	ug/l #	91
27) 2,2-Dichloropropane	5.43	77	12807	4.45	ug/l	97
28) cis-1,2-Dichloroethene	5.44	96	6683	4.22	ug/l	89
29) Bromochloromethane	5.79	49	5672	5.14	ug/l	89
30) Chloroform	5.97	83	16754	4.93	ug/l	98
31) Cyclohexane	6.28	56	13443	5.12	ug/l #	81
32) 1,1,1-Trichloroethane	6.19	97	13964	4.62	ug/l	93
36) 1,1-Dichloropropene	6.43	75	11114	4.12	ug/l	96
37) Ethyl Acetate	5.55	43	4293	4.96	ug/l	97
38) Carbon Tetrachloride	6.41	117	12784	4.56	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.09	83	8809	3.22	ug/l #	92
40) Benzene	6.72	78	28950	4.20	ug/l	97
41) Methacrylonitrile	5.77	41	1955	4.02	ug/l	92
42) 1,2-Dichloroethane	6.83	62	9991	4.67	ug/l	90
43) Isopropyl Acetate	8.42	43	3829	3.35	ug/l #	93
44) Trichloroethene	7.75	130	6620	3.84	ug/l	96
45) 1,2-Dichloropropane	8.15	63	7389	4.33	ug/l	100
46) Dibromomethane	8.27	93	4009	4.14	ug/l	97
47) Bromodichloromethane	8.56	83	11004	4.33	ug/l #	82
48) Methyl methacrylate	8.09	41	6160	3.53	ug/l #	78
49) 1,4-Dioxane	8.31	88	399	61.77	ug/l #	78
51) 4-Methyl-2-Pentanone	9.49	43	13683	16.58	ug/l	91
52) Toluene	9.71	92	18267	4.30	ug/l	91
53) t-1,3-Dichloropropene	10.12	75	6674	3.56	ug/l	92
54) cis-1,3-Dichloropropene	9.23	75	8655	3.58	ug/l	90
55) 1,1,2-Trichloroethane	10.39	97	4792	4.36	ug/l	89
56) Ethyl methacrylate	10.24	69	2903	6.22	ug/l	89
57) 1,3-Dichloropropane	10.61	76	8974	4.39	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.03	63	7069	19.03	ug/l	97
59) 2-Hexanone	10.71	43	9274	15.56	ug/l	96
60) Dibromochloromethane	10.89	129	5790	3.84	ug/l	89
61) 1,2-Dibromoethane	11.03	107	4328	3.99	ug/l	94
64) Tetrachloroethene	10.47	164	7397	4.17	ug/l	85
65) Chlorobenzene	11.61	112	19902	4.30	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.73	131	7497	4.41	ug/l	96
67) Ethyl Benzene	11.74	91	33751	3.63	ug/l	99
68) m/p-Xylenes	11.88	106	20945	7.15	ug/l	80
69) o-Xylene	12.29	106	8719	3.30	ug/l	95
70) Styrene	12.32	104	15188	3.32	ug/l	92
71) Bromoform	12.50	173	3683	4.07	ug/l	76
73) Isopropylbenzene	12.67	105	26979	3.31	ug/l	100
74) N-amyl acetate	12.50	43	5650	7.21	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.99	83	5942	4.51	ug/l	84
76) 1,2,3-Trichloropropane	13.04	75	5954	4.23	ug/l	95
77) Bromobenzene	12.98	156	8362	4.08	ug/l	82
78) n-propylbenzene	13.08	91	42028	3.65	ug/l	100
79) 2-Chlorotoluene	13.15	91	24559	3.84	ug/l	99
80) 1,3,5-Trimethylbenzene	13.25	105	21894	3.37	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.85	75	60787	148.77	ug/l #	9
82) 4-Chlorotoluene	13.27	91	28716	3.77	ug/l	97
83) tert-Butylbenzene	13.54	119	23466	4.00	ug/l	89
84) 1,2,4-Trimethylbenzene	13.60	105	22937	3.50	ug/l	91
85) sec-Butylbenzene	13.74	105	29164	3.38	ug/l	98
86) p-Isopropyltoluene	13.87	119	22737	3.36	ug/l	98
87) 1,3-Dichlorobenzene	13.84	146	15049	3.93	ug/l	96
88) 1,4-Dichlorobenzene	13.94	146	16250	4.27	ug/l	98
89) n-Butylbenzene	14.22	91	25271	3.31	ug/l	96
90) Hexachloroethane	14.49	117	6839	4.36	ug/l	86
91) 1,2-Dichlorobenzene	14.24	146	13772	4.28	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.89	75	874	5.17	ug/l	54

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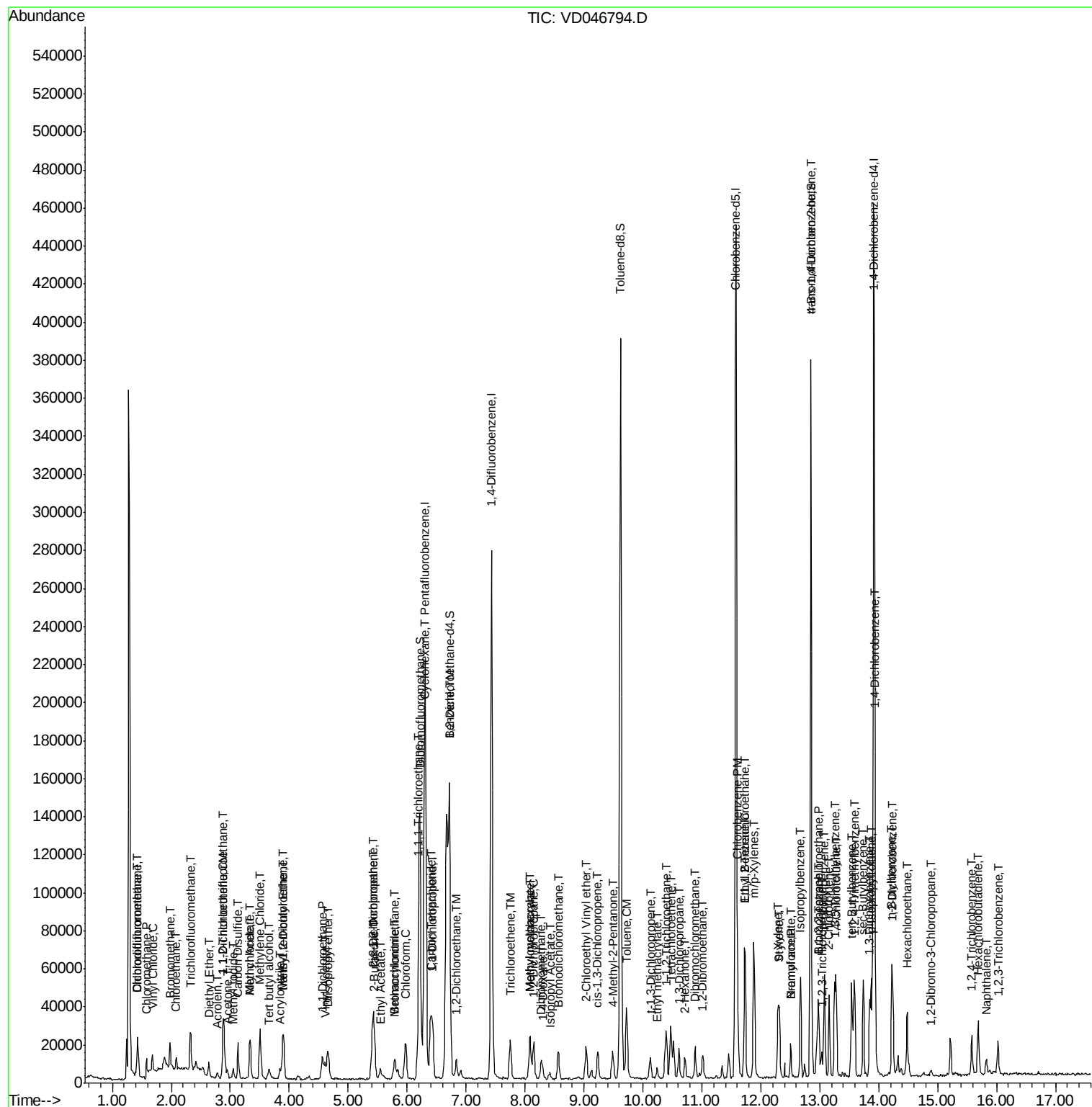
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.58	180	6978	3.77	ug/l	99
94) Hexachlorobutadiene	15.69	225	6314	4.14	ug/l	86
95) Naphthalene	15.83	128	6863	5.05	ug/l	97
96) 1,2,3-Trichlorobenzene	16.02	180	6015	3.89	ug/l	89

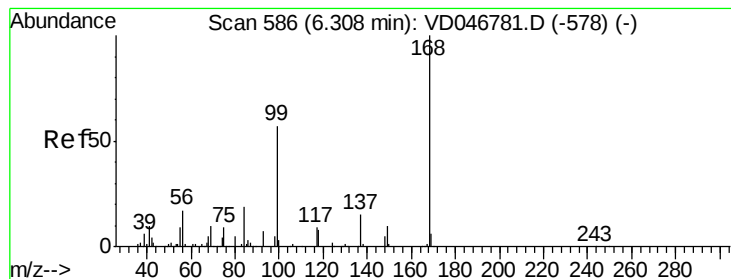
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.30 min Scan# 586

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

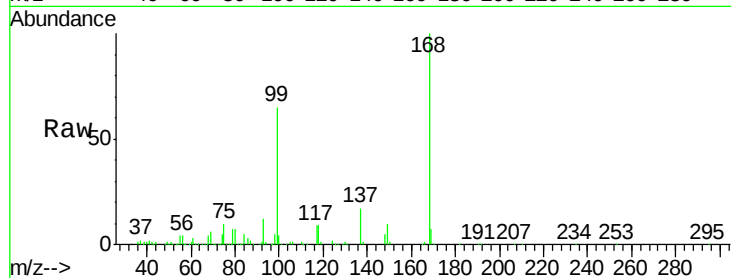
LOD-SOIL2015-01

Tgt Ion:168 Resp: 168271

Ion Ratio Lower Upper

168 100

99 64.7 42.4 63.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.30

80000

60000

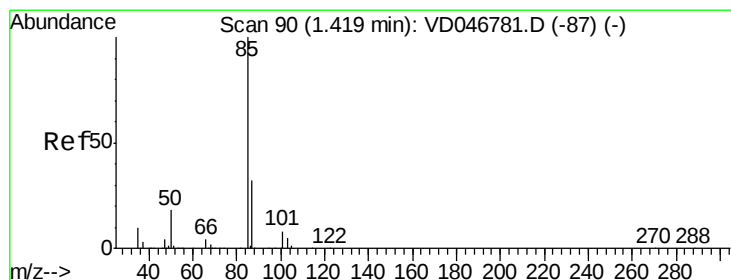
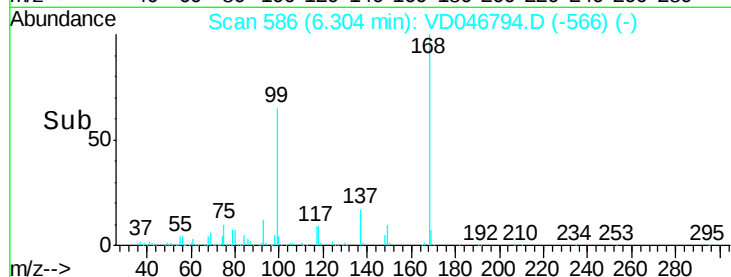
40000

20000

0

6.20 6.30 6.40 6.50

Time-->



#2

Dichlorodifluoromethane

Concen: 2.79 ug/l

RT: 1.42 min Scan# 91

Delta R.T. 0.01 min

Lab File: VD046794.D

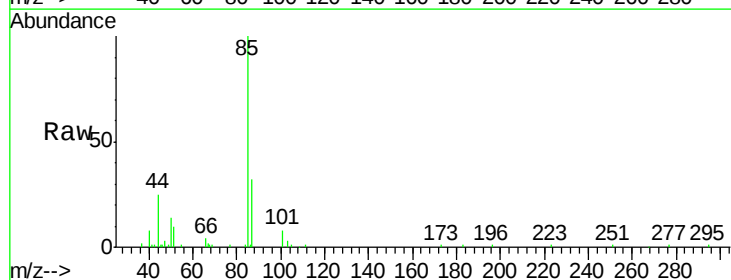
Acq: 18 Sep 2015 21:07

Tgt Ion: 85 Resp: 10808

Ion Ratio Lower Upper

85 100

87 31.5 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.42

12000

10000

8000

6000

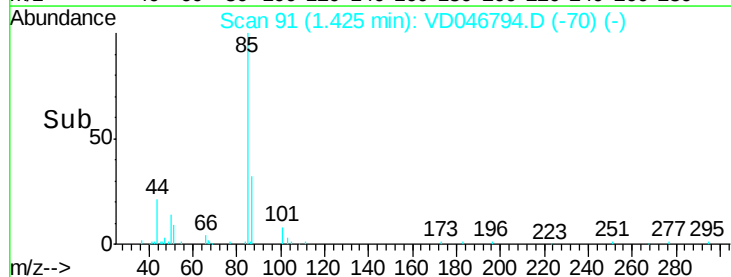
4000

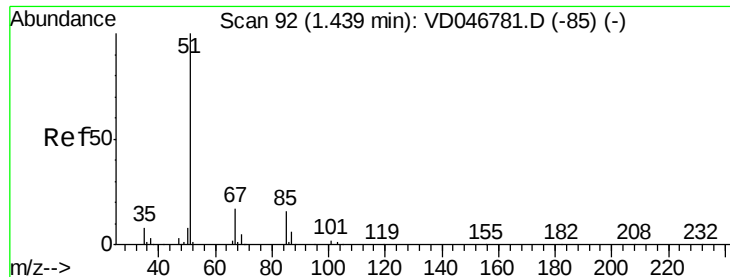
2000

0

1.35 1.40 1.45 1.50

Time-->





#3

Chlorodifluoromethane

Concen: 3.60 ug/l

RT: 1.43 min Scan# 92

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

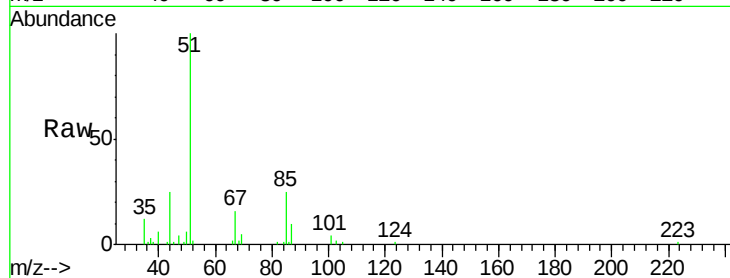
LOD-SOIL2015-01

Tgt Ion: 51 Resp: 11193

Ion Ratio Lower Upper

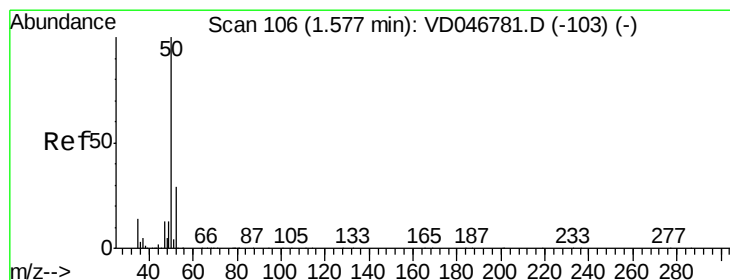
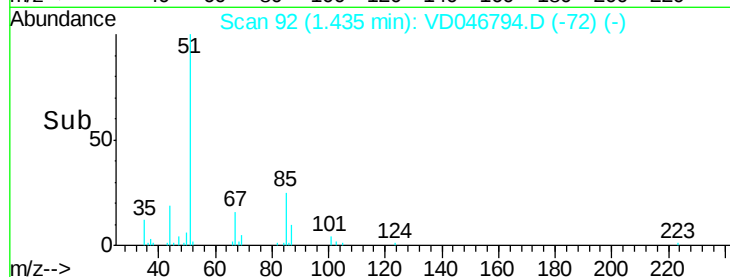
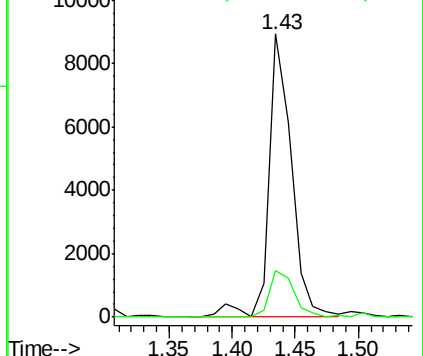
51 100

67 17.8 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: 5.02 ug/l

RT: 1.58 min Scan# 107

Delta R.T. 0.01 min

Lab File: VD046794.D

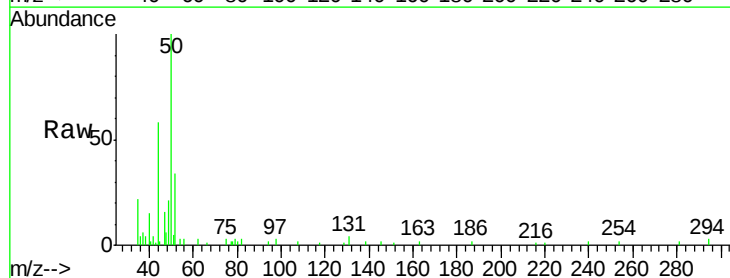
Acq: 18 Sep 2015 21:07

Tgt Ion: 50 Resp: 4976

Ion Ratio Lower Upper

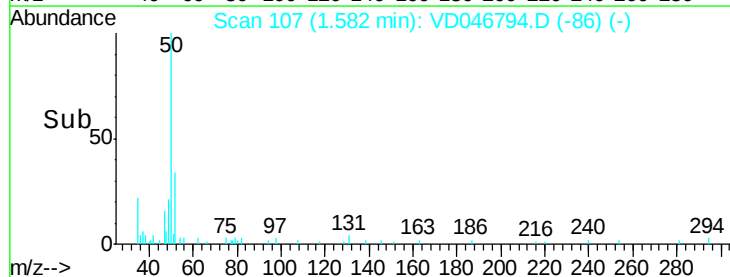
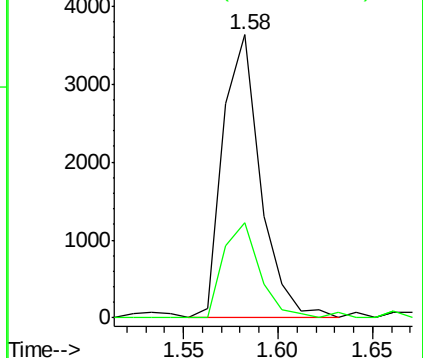
50 100

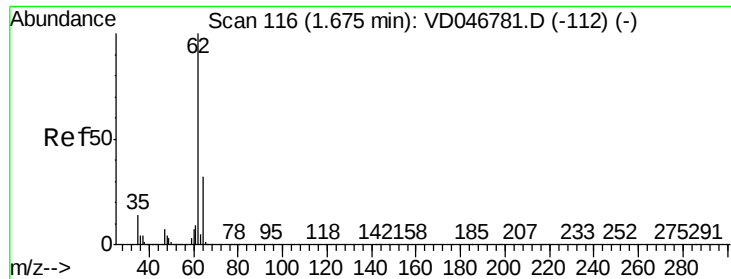
52 33.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Vinyl Chloride

Concen: 5.16 ug/l

RT: 1.68 min Scan# 117

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

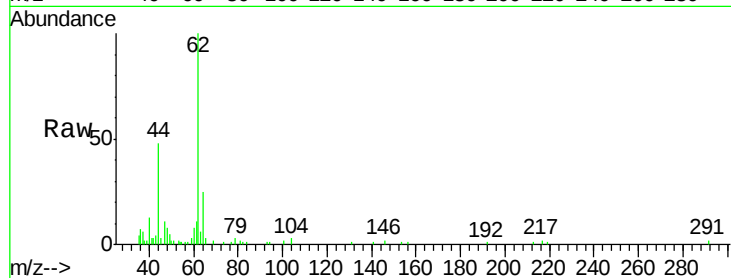
LOD-SOIL2015-01

Tgt Ion: 62 Resp: 4811

Ion Ratio Lower Upper

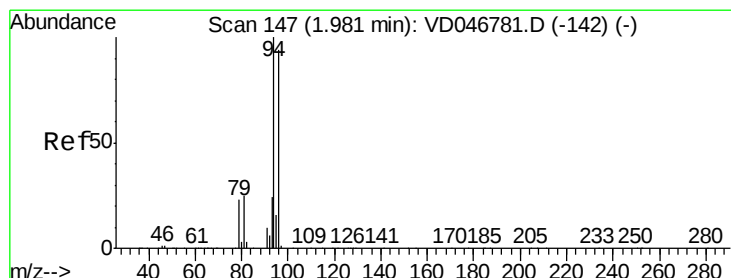
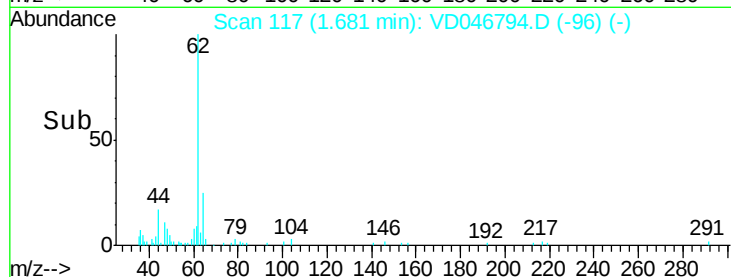
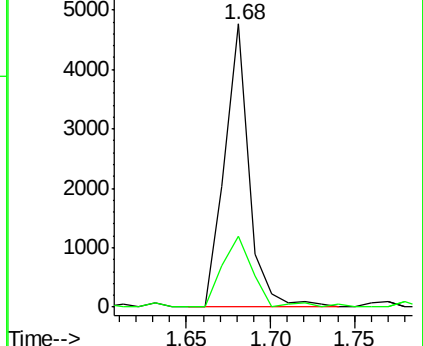
62 100

64 25.2 26.4 39.6#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



#6

Bromomethane

Concen: 3.20 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.00 min

Lab File: VD046794.D

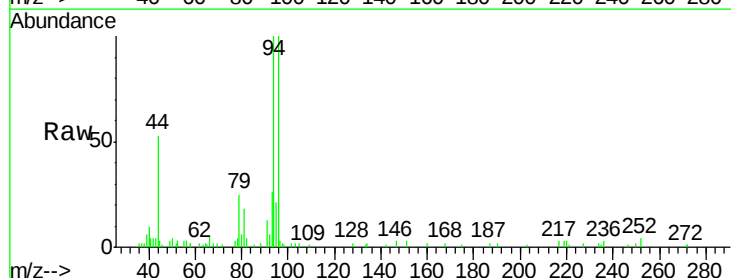
Acq: 18 Sep 2015 21:07

Tgt Ion: 94 Resp: 5686

Ion Ratio Lower Upper

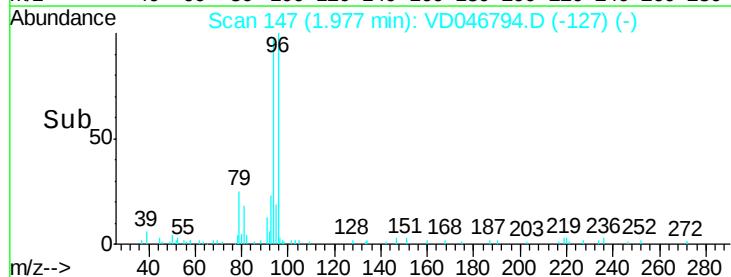
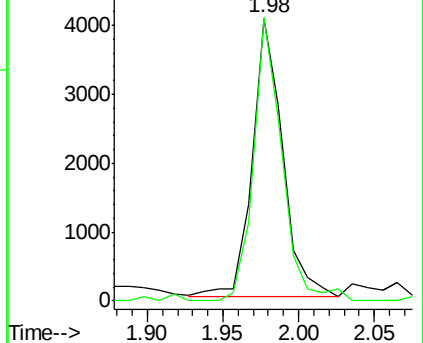
94 100

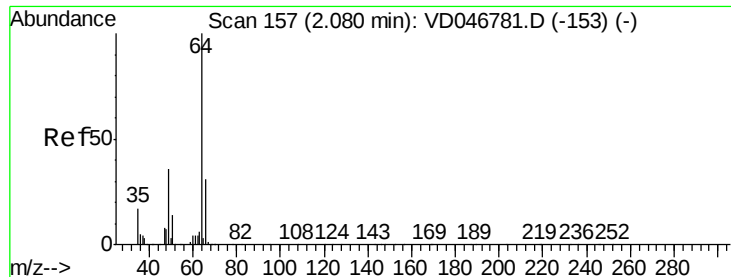
96 100.2 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#7

Chloroethane

Concen: 5.05 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

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ClientSampleId :

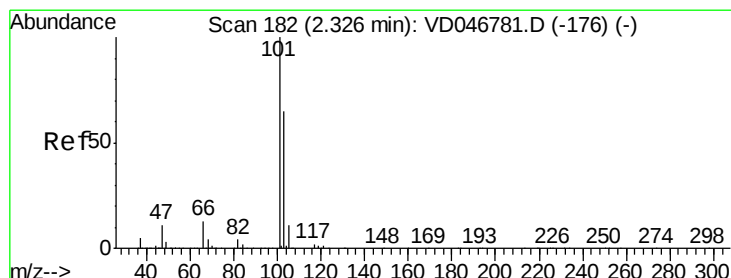
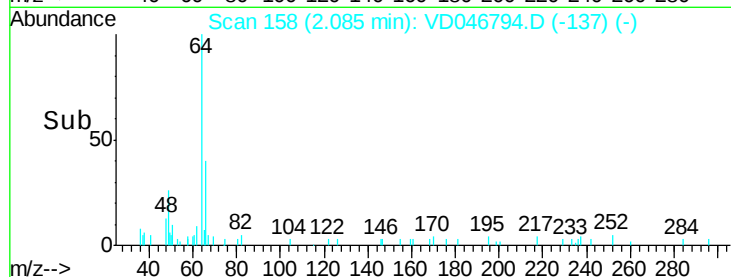
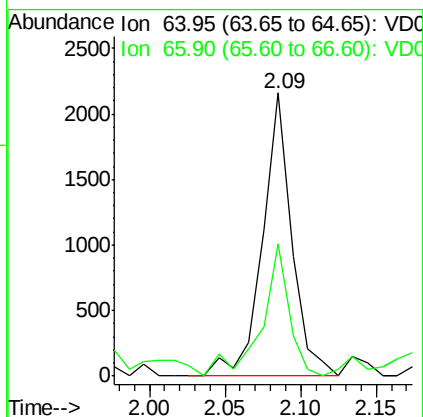
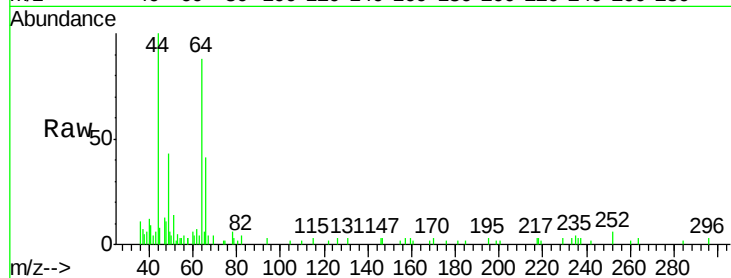
LOD-SOIL2015-01

Tgt Ion: 64 Resp: 2947

Ion Ratio Lower Upper

64 100

66 46.7 26.6 39.8#



#8

Trichlorofluoromethane

Concen: 5.29 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD046794.D

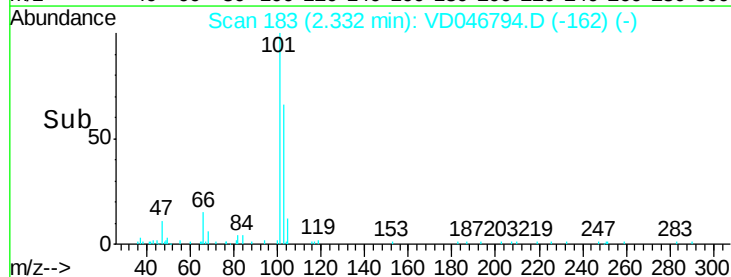
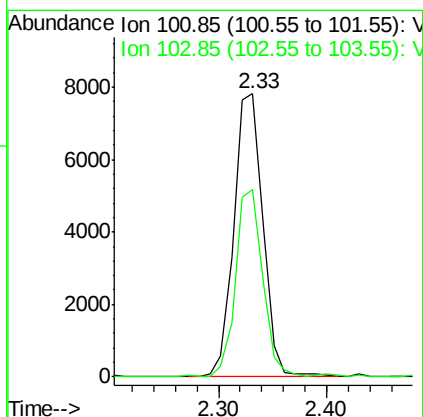
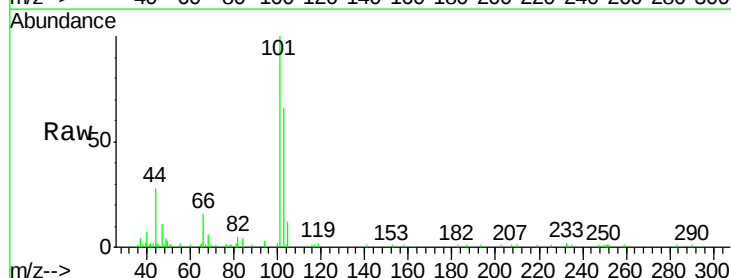
Acq: 18 Sep 2015 21:07

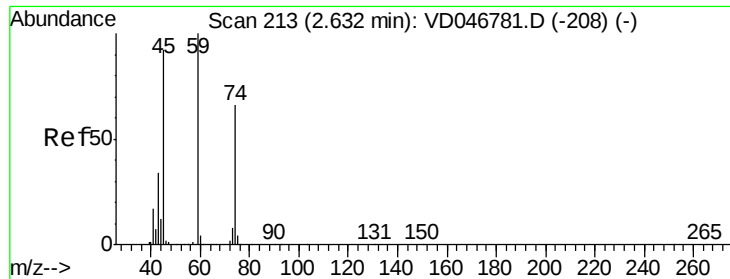
Tgt Ion: 101 Resp: 14587

Ion Ratio Lower Upper

101 100

103 66.1 53.2 79.8





#9

Diethyl Ether

Concen: 3.80 ug/l

RT: 2.64 min Scan# 214

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

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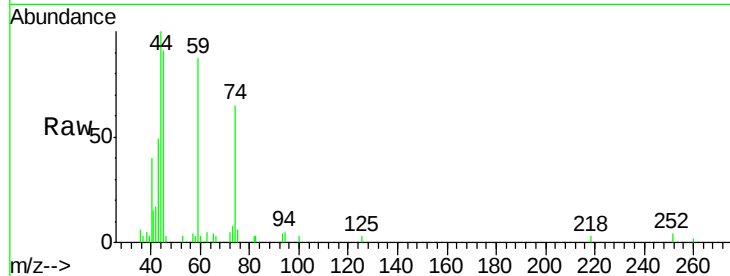
LOD-SOIL2015-01

Tgt Ion: 74 Resp: 1857

Ion Ratio Lower Upper

74 100

45 140.3 76.2 228.6



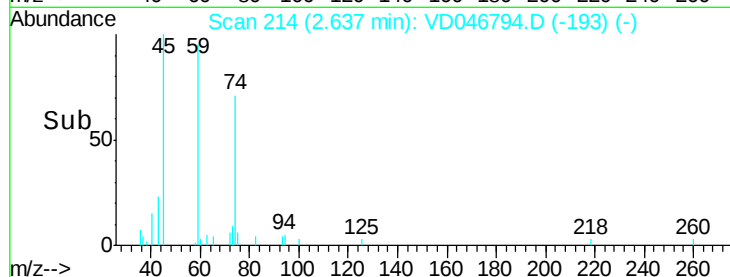
Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

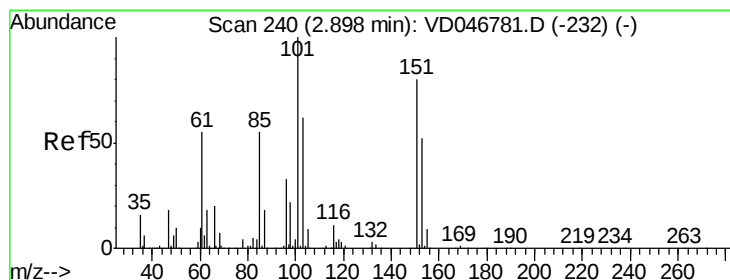
2.64

2.65

2.70



Time-->



#10

1,1,2-Trichlorotrifluoroethane

Concen: 4.92 ug/l

RT: 2.89 min Scan# 240

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

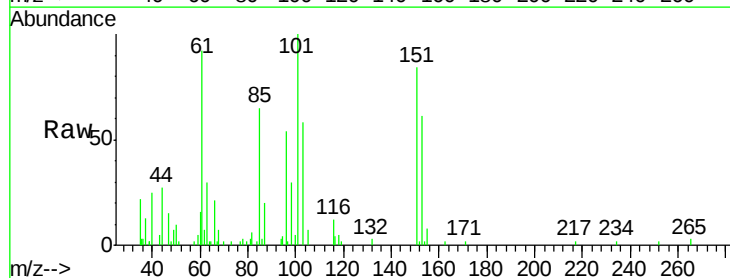
Tgt Ion: 101 Resp: 8483

Ion Ratio Lower Upper

101 100

85 65.1 42.0 63.0#

151 84.0 65.2 97.8



Abundance Ion 100.85 (100.55 to 101.55): V

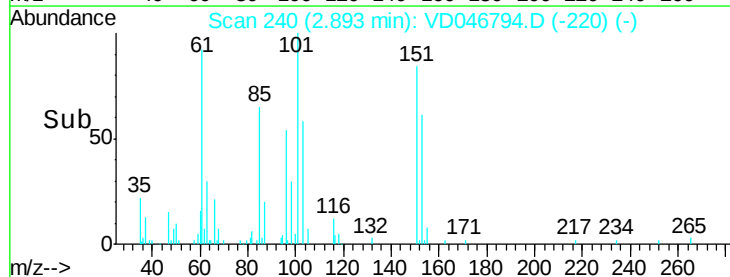
Ion 84.95 (84.65 to 85.65): VDC

Ion 150.90 (150.60 to 151.60): V

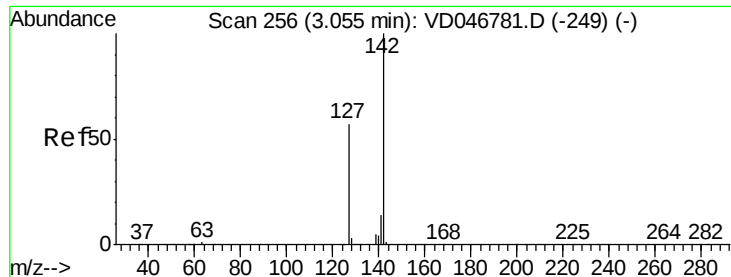
2.89

2.90

3.00



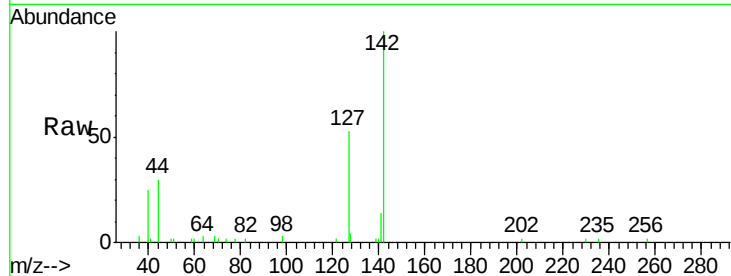
Time-->



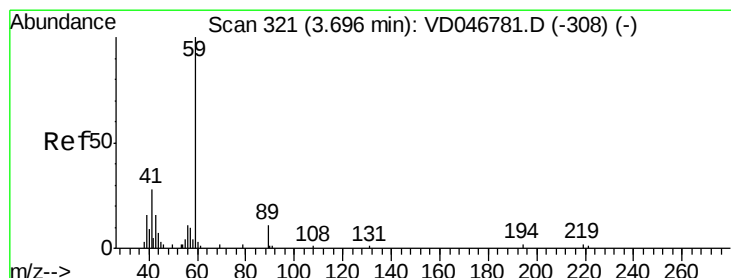
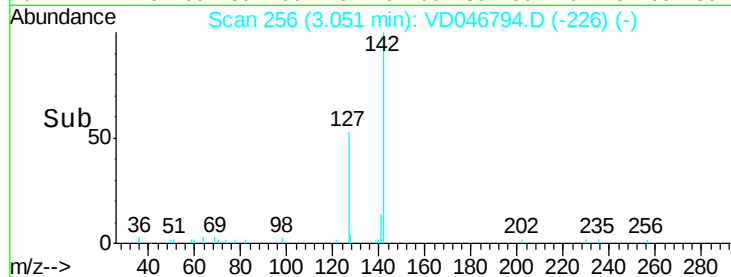
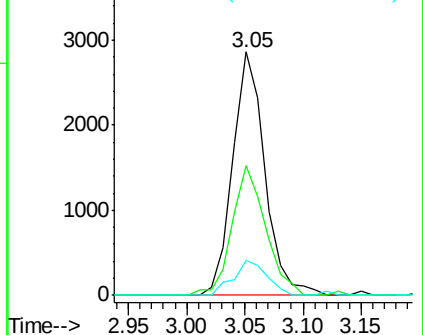
#11
Methyl Iodide
Concen: 4.37 ug/l
RT: 3.05 min Scan# 256
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion:142 Resp: 5499
Ion Ratio Lower Upper
142 100
127 53.3 41.2 61.8
141 14.2 11.6 17.4

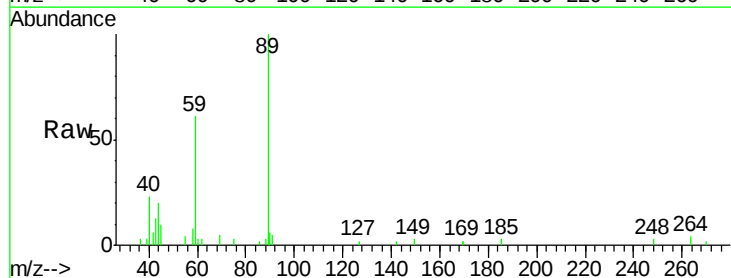


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

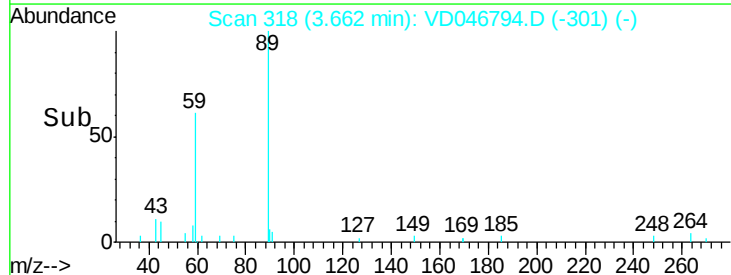
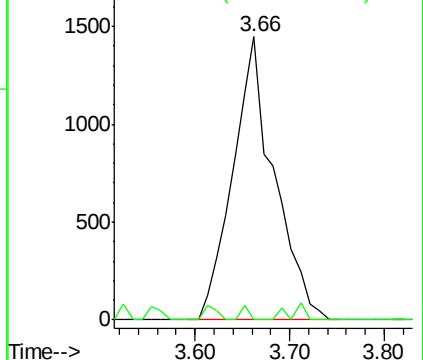


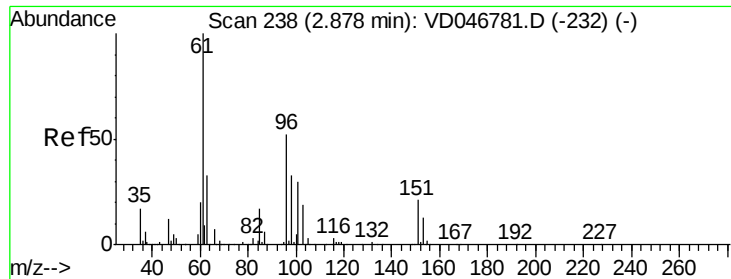
#12
Tert butyl alcohol
Concen: 13.51 ug/l
RT: 3.66 min Scan# 318
Delta R.T. -0.03 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion: 59 Resp: 4383
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



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

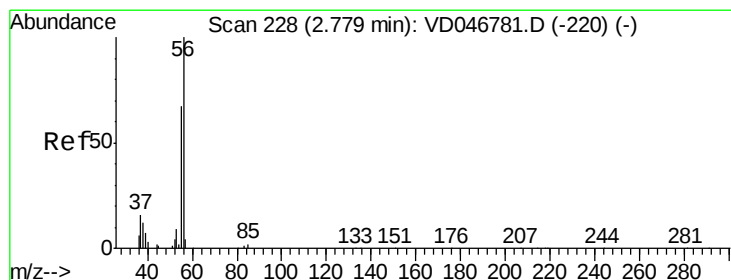
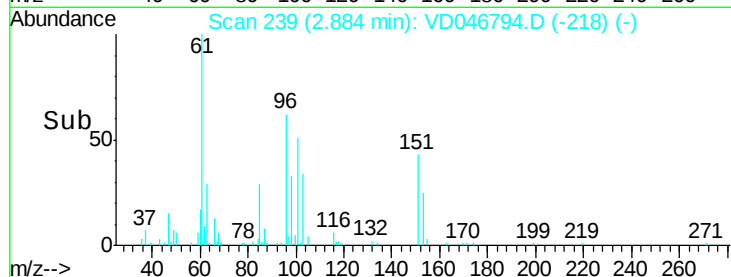
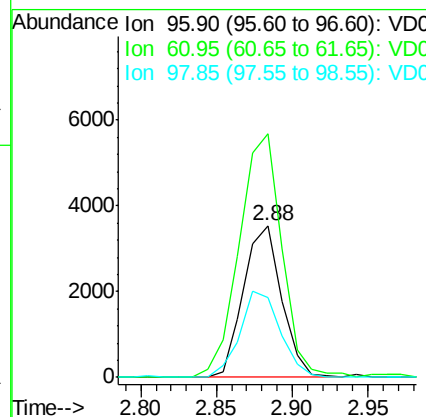
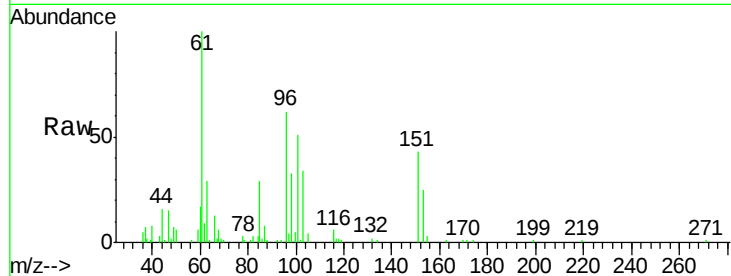




#13
 1,1-Dichloroethene
 Concen: 4.62 ug/l
 RT: 2.88 min Scan# 239
 Delta R.T. 0.01 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

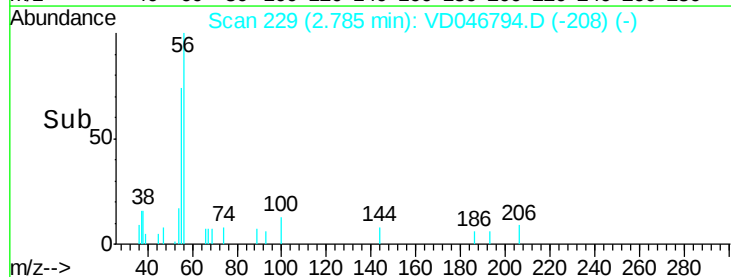
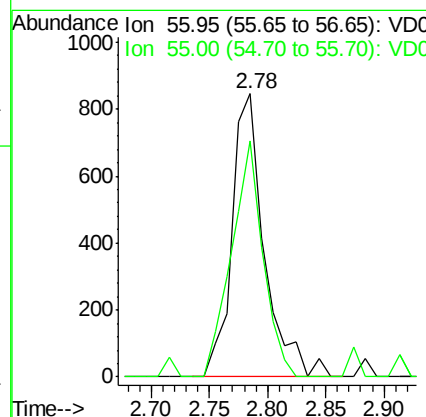
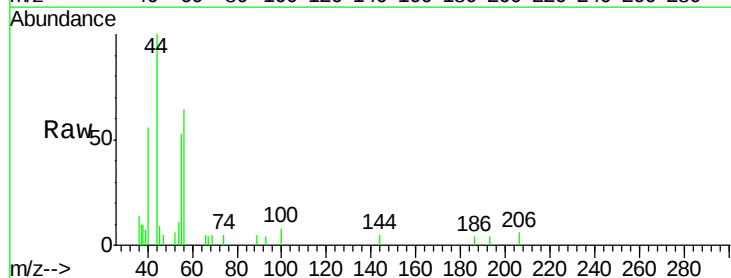
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

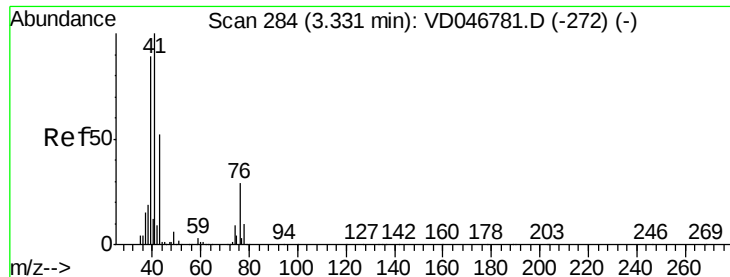
Tgt Ion: 96 Resp: 6226
 Ion Ratio Lower Upper
 96 100
 61 160.3 152.2 228.4
 98 52.1 51.2 76.8



#14
 Acrolein
 Concen: 18.28 ug/l
 RT: 2.78 min Scan# 229
 Delta R.T. 0.01 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion: 56 Resp: 1634
 Ion Ratio Lower Upper
 56 100
 55 83.3 62.6 93.8





#15

Allyl chloride

Concen: 3.90 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

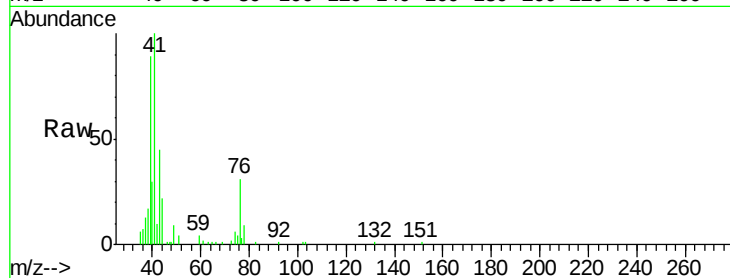
Tgt Ion: 41 Resp: 10678

Ion Ratio Lower Upper

41 100

39 88.6 58.8 88.2#

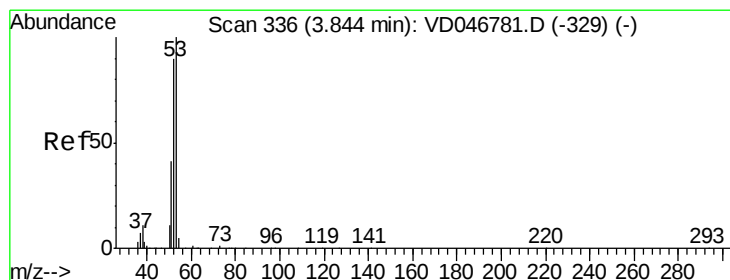
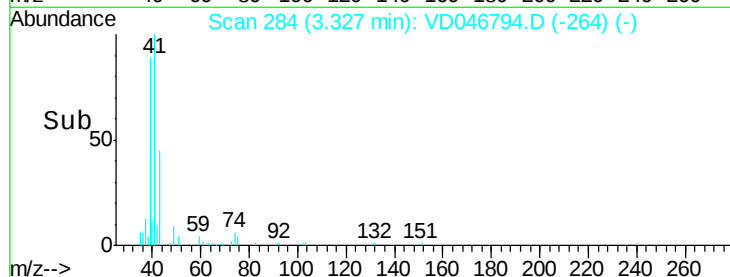
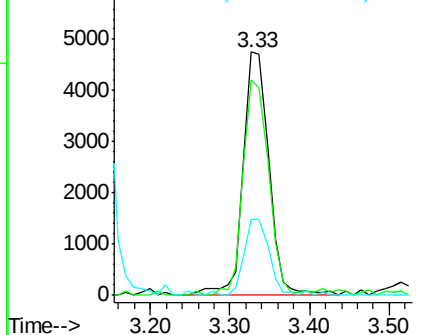
76 31.1 22.7 34.1



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC



#16

Acrylonitrile

Concen: 22.15 ug/l

RT: 3.84 min Scan# 336

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

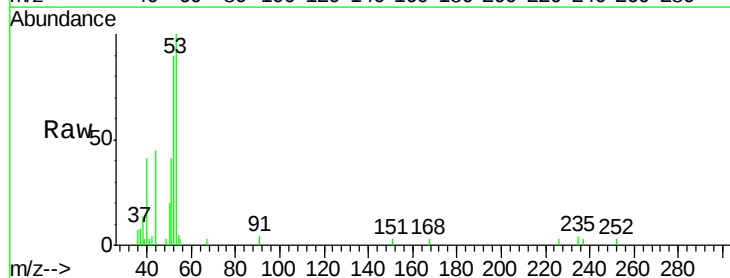
Tgt Ion: 53 Resp: 4525

Ion Ratio Lower Upper

53 100

52 89.8 66.8 100.2

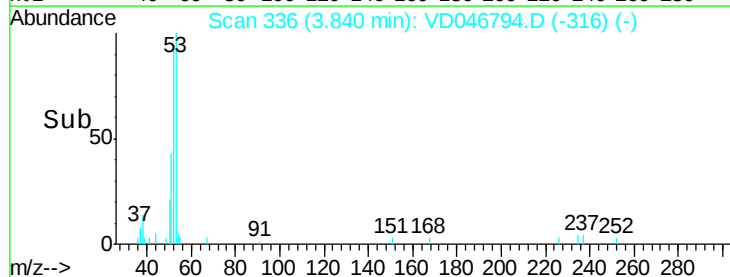
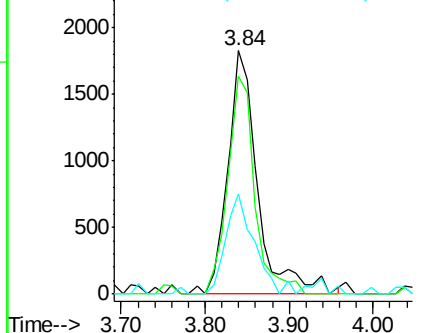
51 41.2 31.2 46.8

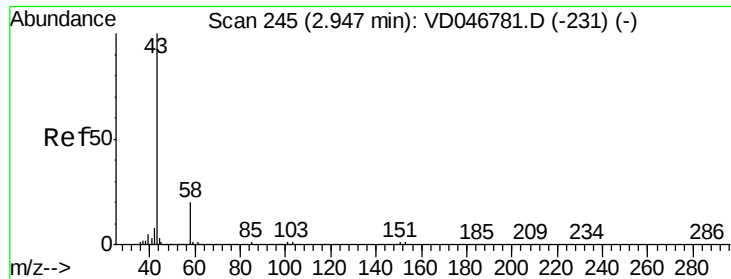


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

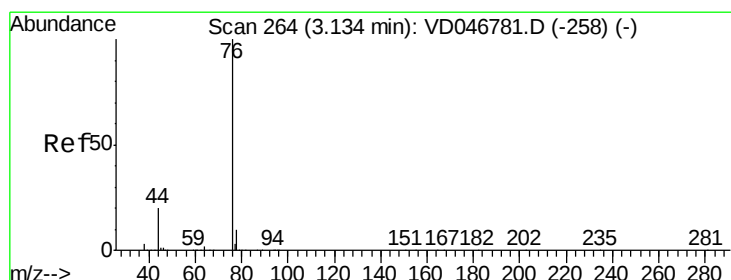
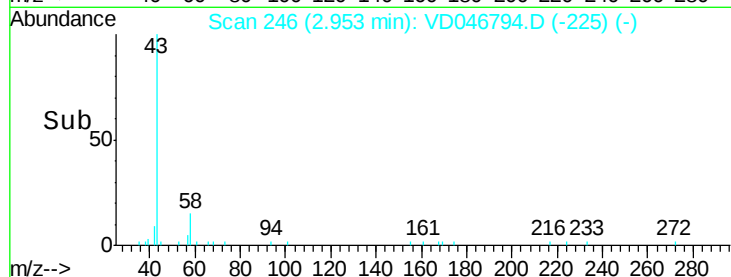
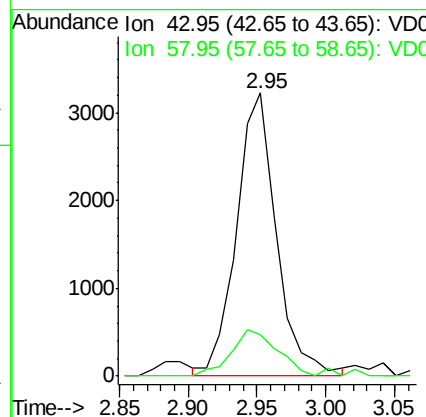
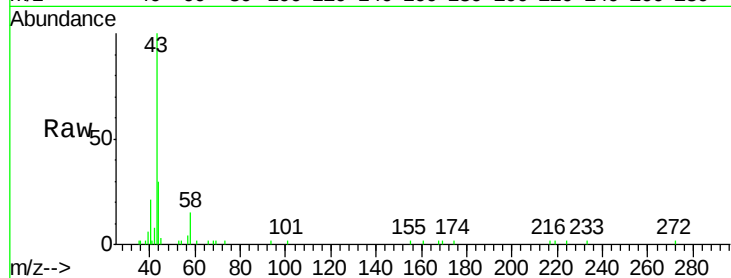




#17
Acetone
Concen: 22.08 ug/l
RT: 2.95 min Scan# 246
Delta R.T. 0.01 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

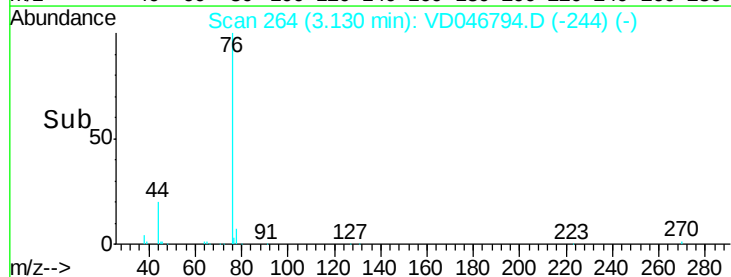
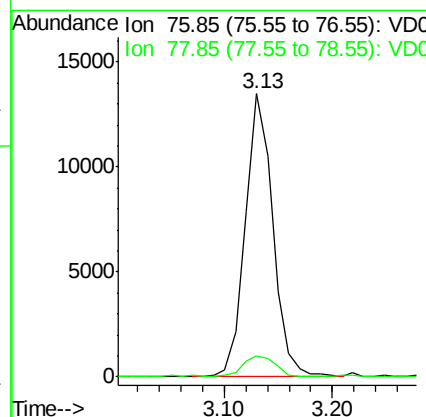
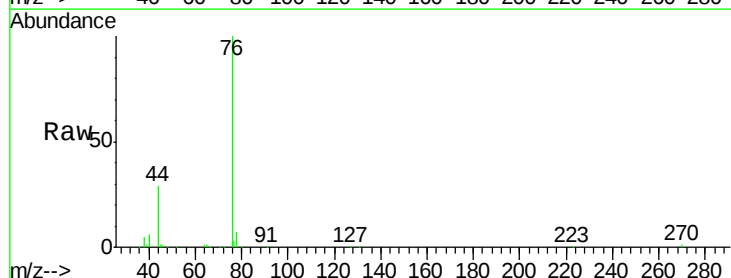
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

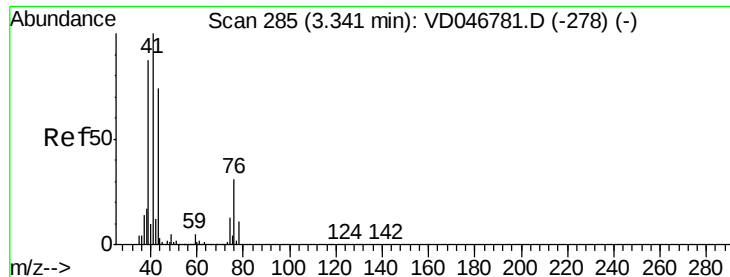
Tgt Ion: 43 Resp: 6527
Ion Ratio Lower Upper
43 100
58 14.6 16.6 24.8#



#18
Carbon Disulfide
Concen: 4.72 ug/l
RT: 3.13 min Scan# 264
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion: 76 Resp: 23856
Ion Ratio Lower Upper
76 100
78 7.4 8.0 12.0#

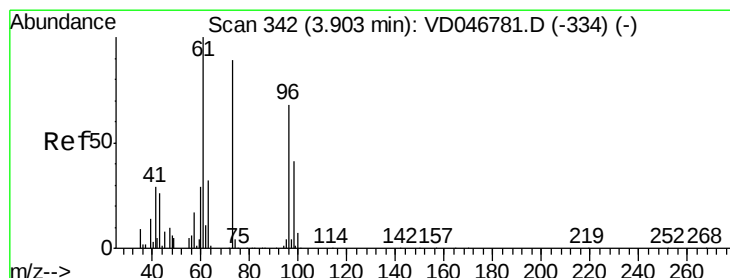
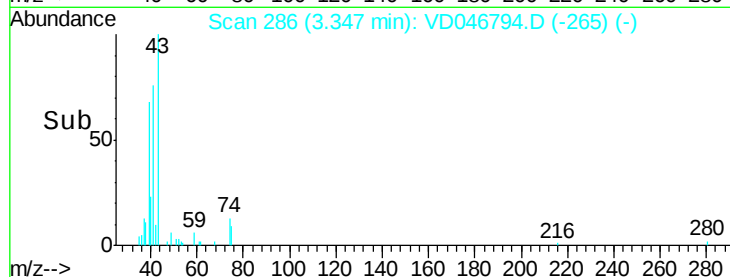
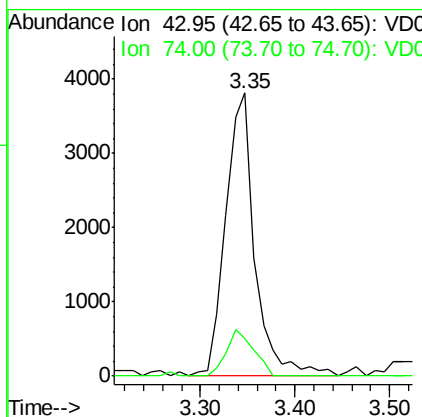
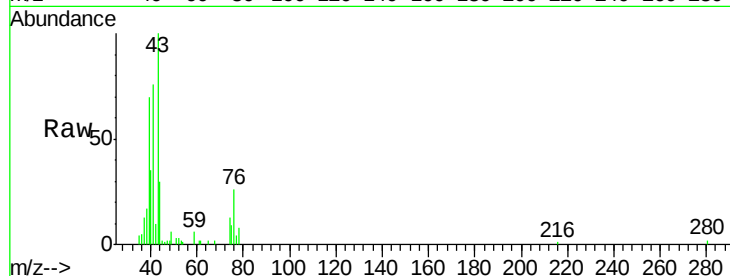




#19
Methyl Acetate
Concen: 4.78 ug/l
RT: 3.35 min Scan# 286
Delta R.T. 0.01 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

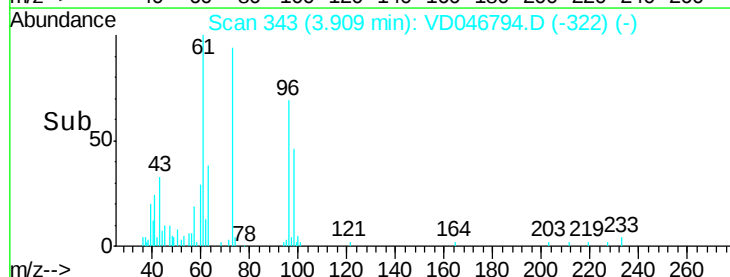
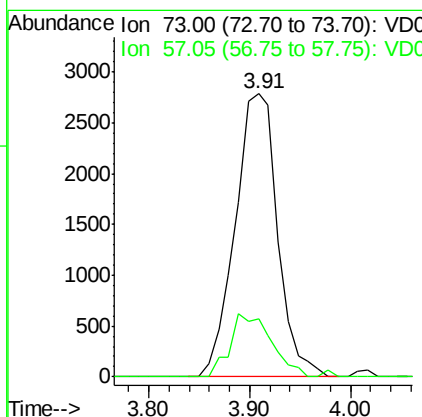
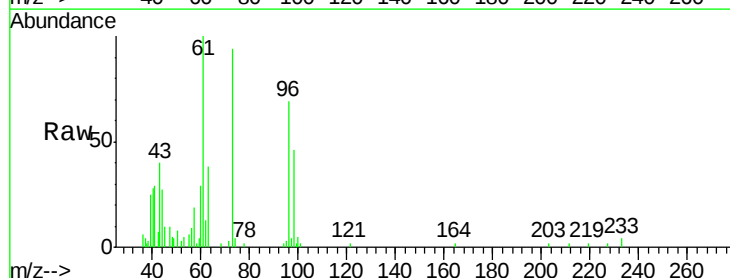
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

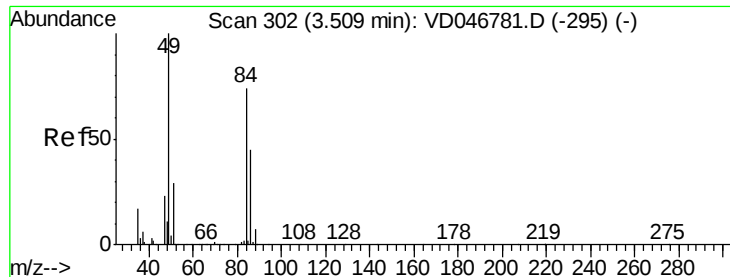
Tgt Ion: 43 Resp: 8181
Ion Ratio Lower Upper
43 100
74 13.3 13.7 20.5#



#20
Methyl tert-butyl Ether
Concen: 3.86 ug/l
RT: 3.91 min Scan# 343
Delta R.T. 0.01 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion: 73 Resp: 8156
Ion Ratio Lower Upper
73 100
57 20.4 18.1 27.1

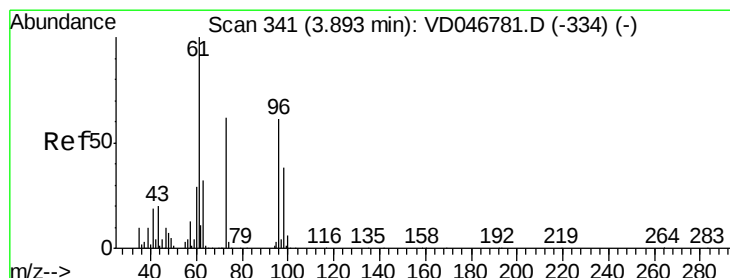
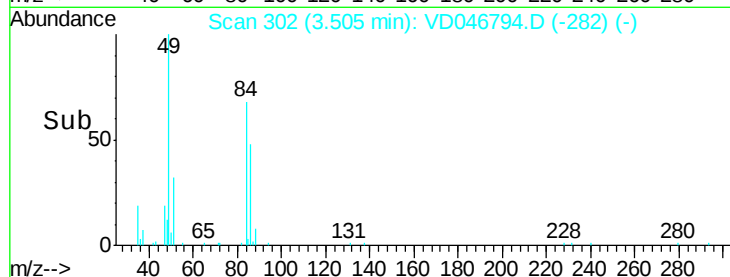
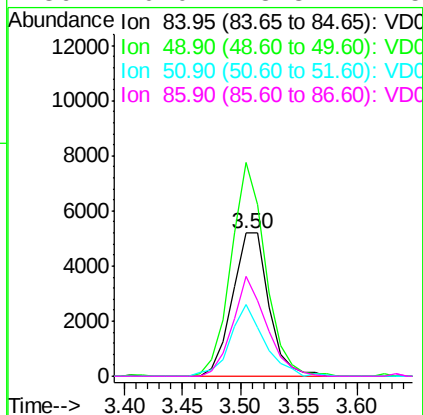
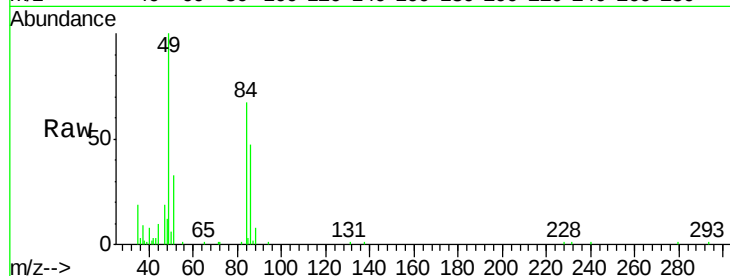




#21
Methylene Chloride
Concen: 7.03 ug/l
RT: 3.50 min Scan# 302
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

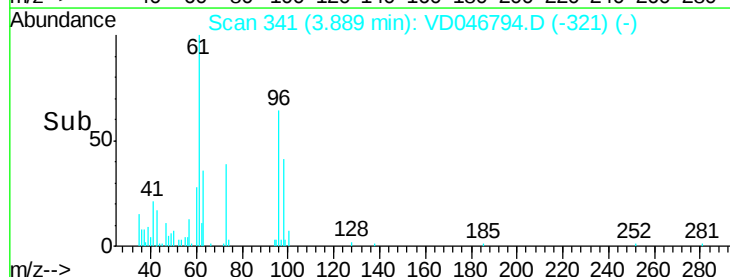
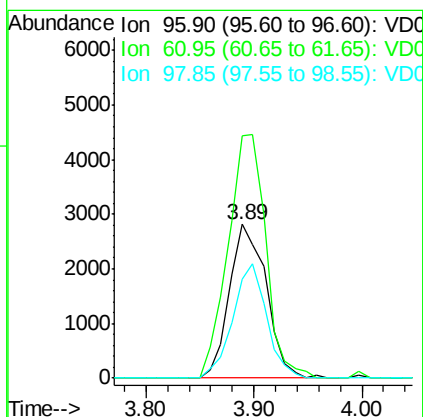
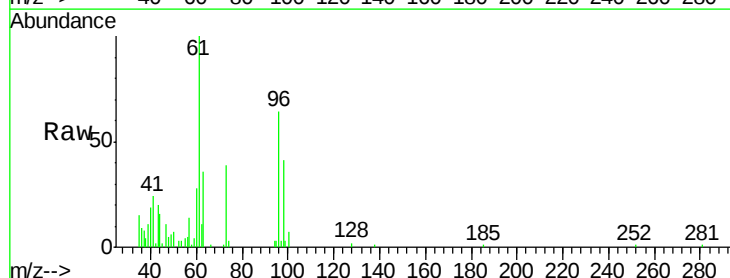
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

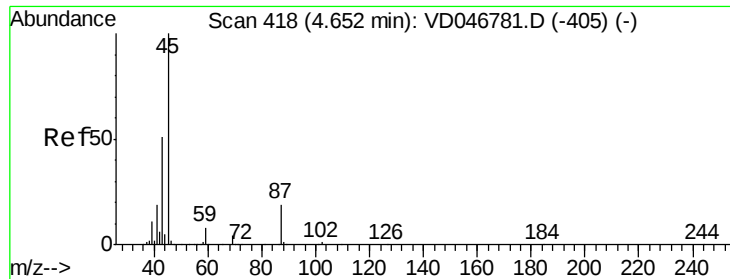
Tgt Ion: 84 Resp: 11290
Ion Ratio Lower Upper
84 100
49 149.2 122.1 183.1
51 49.8 33.6 50.4
86 70.0 48.3 72.5



#22
trans-1,2-Dichloroethene
Concen: 4.38 ug/l
RT: 3.89 min Scan# 341
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion: 96 Resp: 6658
Ion Ratio Lower Upper
96 100
61 157.5 125.8 188.6
98 64.3 54.5 81.7

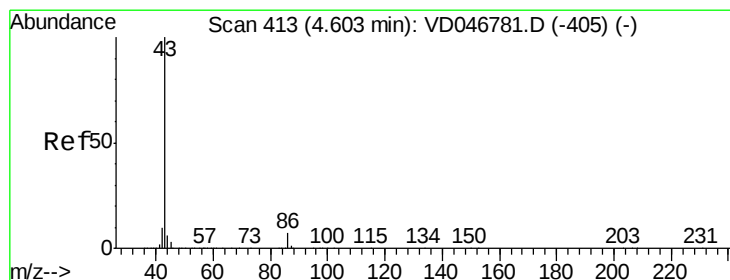
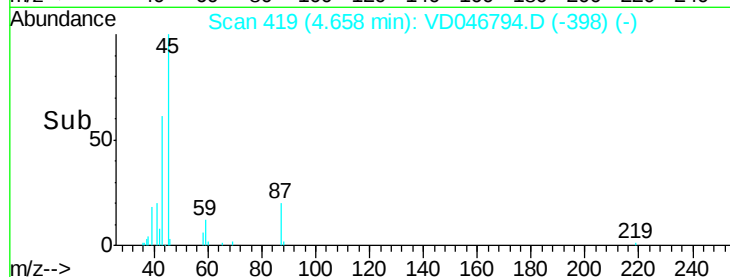
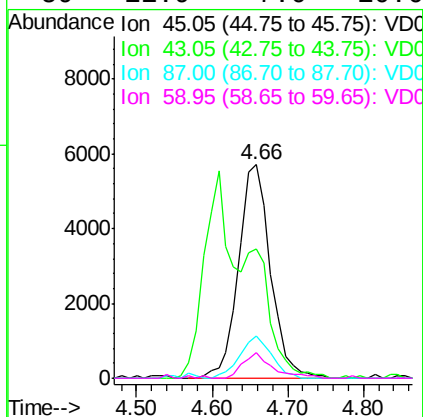
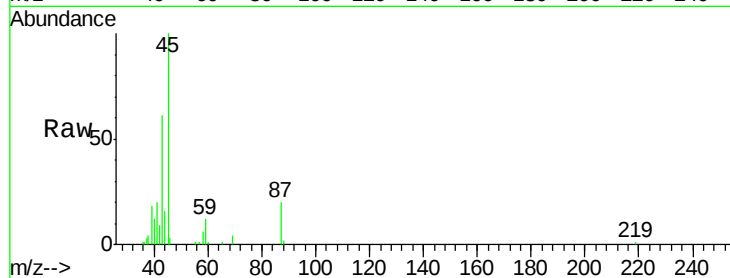




#23
Diisopropyl ether
Concen: 3.69 ug/l
RT: 4.66 min Scan# 419
Delta R.T. 0.01 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

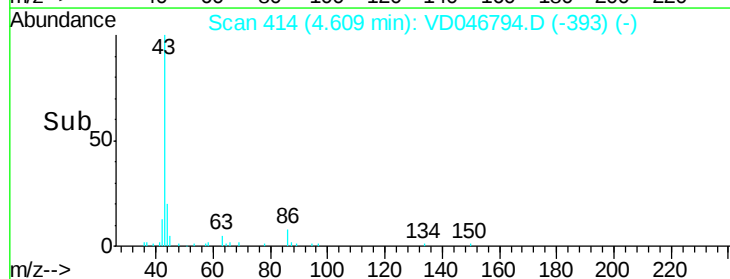
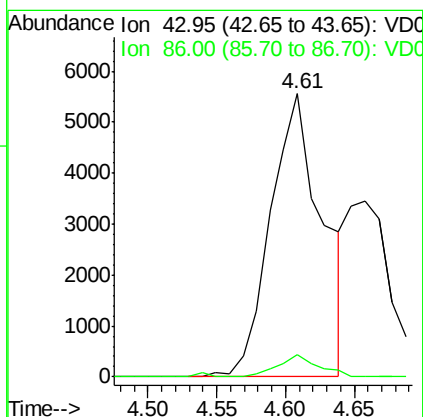
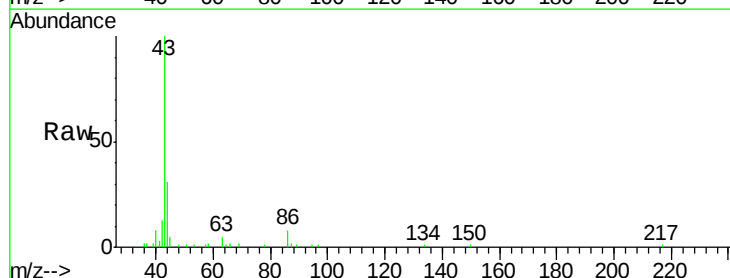
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

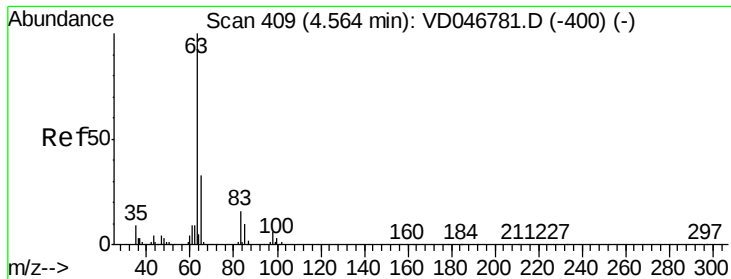
Tgt Ion:	45	Resp:	16789
Ion	Ratio	Lower	Upper
45	100		
43	60.5	35.9	53.9#
87	19.5	13.0	19.6
59	11.9	7.0	10.6#



#24
Vinyl Acetate
Concen: 27.75 ug/l
RT: 4.61 min Scan# 414
Delta R.T. 0.01 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion:	43	Resp:	14462
Ion	Ratio	Lower	Upper
43	100		
86	7.7	4.9	7.3#





#25

1,1-Dichloroethane

Concen: 4.86 ug/l

RT: 4.56 min Scan# 409

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

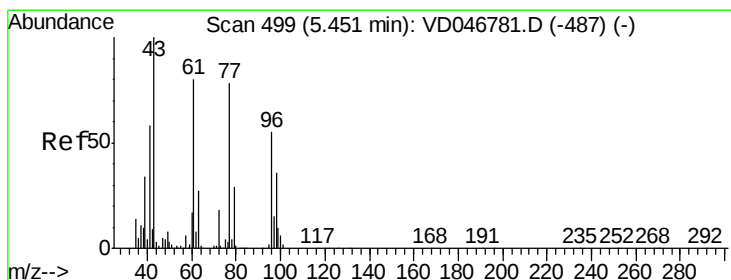
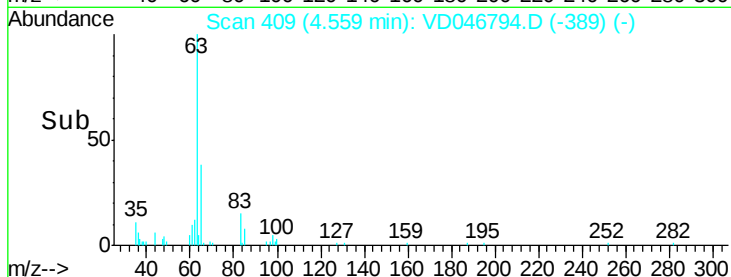
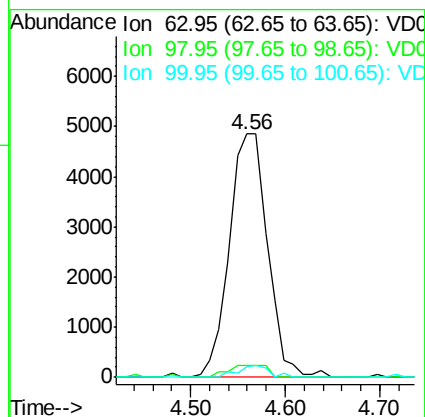
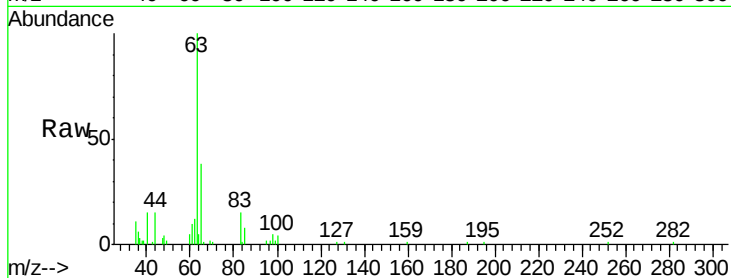
Tgt Ion: 63 Resp: 13598

Ion Ratio Lower Upper

63 100

98 5.0 2.5 7.5

100 4.2 1.5 4.5



#26

2-Butanone

Concen: 20.30 ug/l

RT: 5.46 min Scan# 500

Delta R.T. 0.01 min

Lab File: VD046794.D

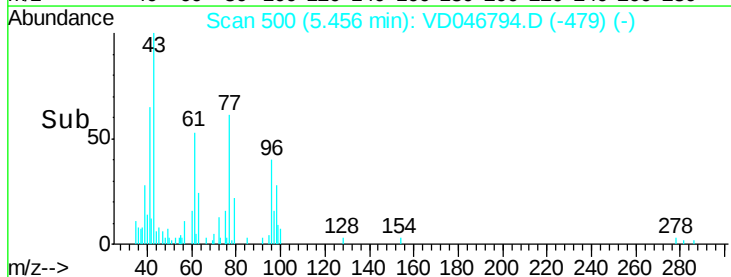
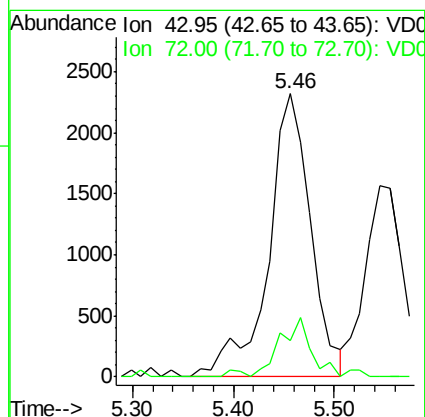
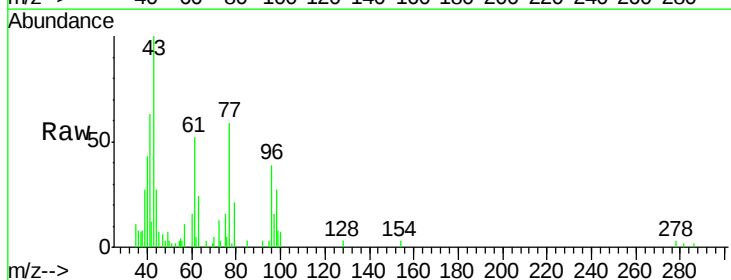
Acq: 18 Sep 2015 21:07

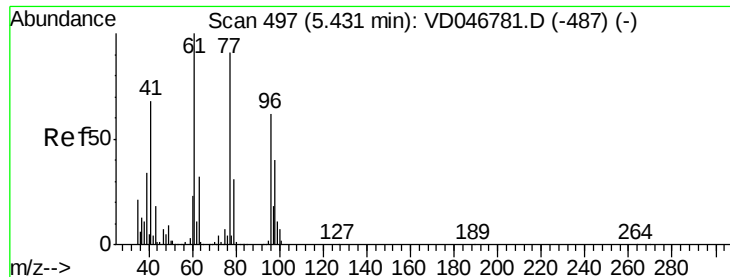
Tgt Ion: 43 Resp: 6746

Ion Ratio Lower Upper

43 100

72 12.8 13.4 20.0#





#27

2,2-Dichloropropane

Concen: 4.45 ug/l

RT: 5.43 min Scan# 497

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

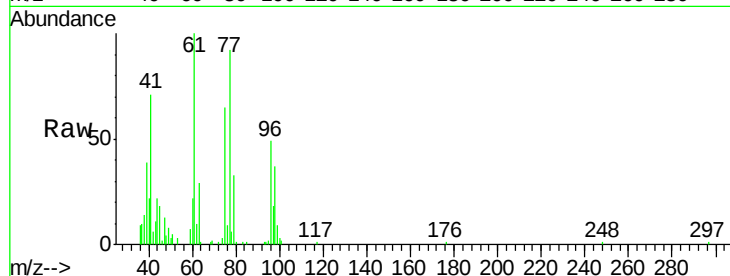
LOD-SOIL2015-01

Tgt Ion: 77 Resp: 12807

Ion Ratio Lower Upper

77 100

97 19.3 10.4 31.1



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

5.43

5000

4000

3000

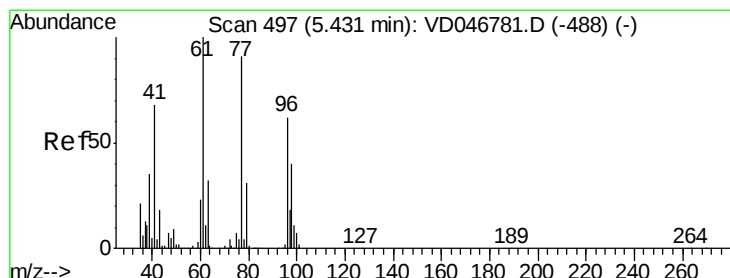
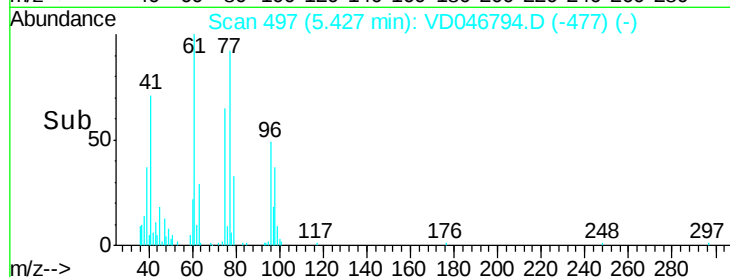
2000

1000

0

5.30 5.40 5.50

Time-->



#28

cis-1,2-Dichloroethene

Concen: 4.22 ug/l

RT: 5.44 min Scan# 498

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

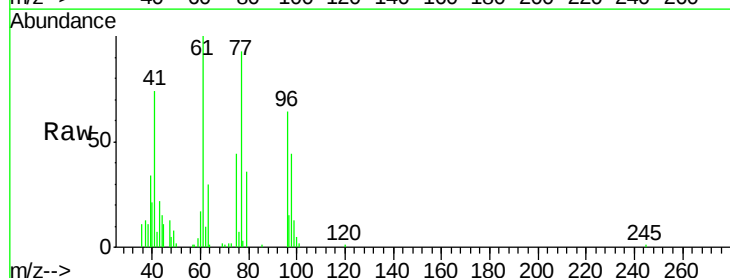
Tgt Ion: 96 Resp: 6683

Ion Ratio Lower Upper

96 100

61 155.1 0.0 348.0

98 67.7 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

5.44

6000

5000

4000

3000

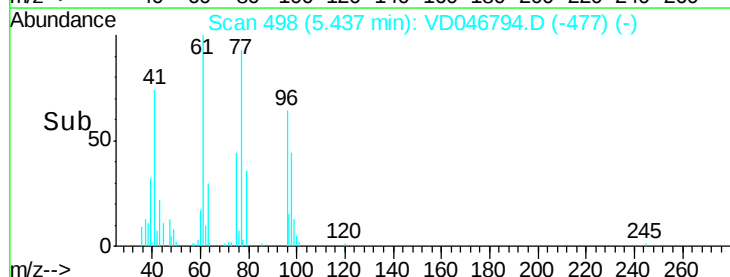
2000

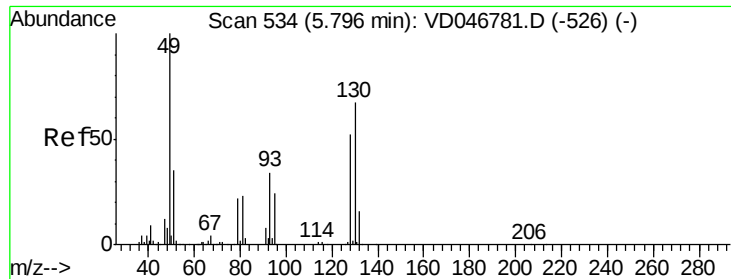
1000

0

5.35 5.40 5.45 5.50

Time-->





#29

Bromochloromethane

Concen: 5.14 ug/l

RT: 5.79 min Scan# 534

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

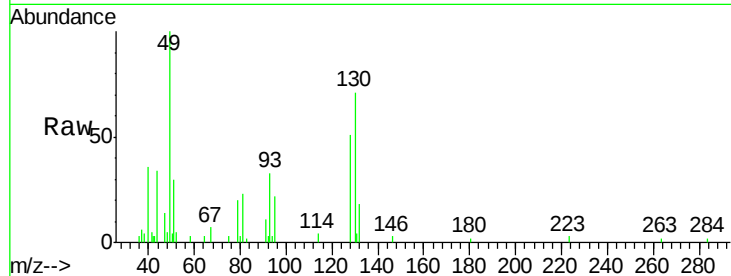
Tgt Ion: 49 Resp: 5672

Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.8

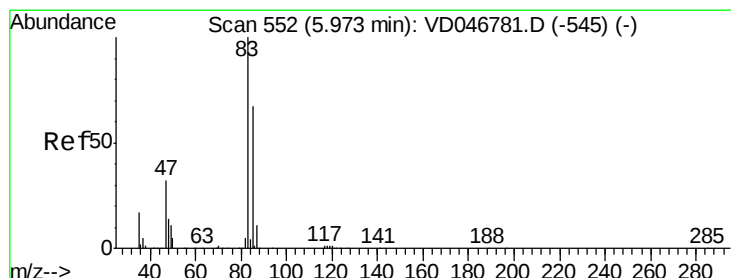
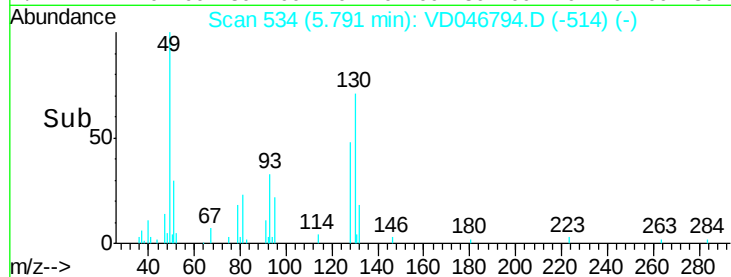
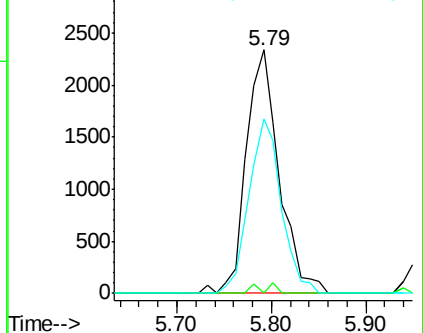
130 71.4 50.2 75.4



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: 4.93 ug/l

RT: 5.97 min Scan# 552

Delta R.T. -0.00 min

Lab File: VD046794.D

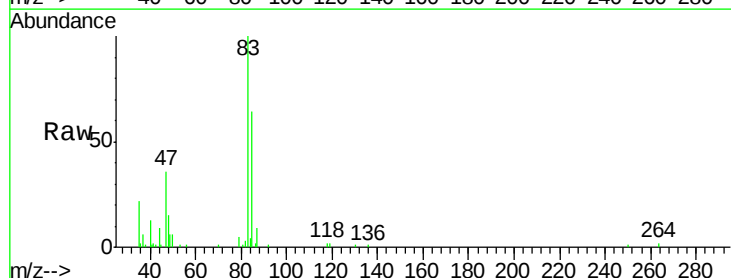
Acq: 18 Sep 2015 21:07

Tgt Ion: 83 Resp: 16754

Ion Ratio Lower Upper

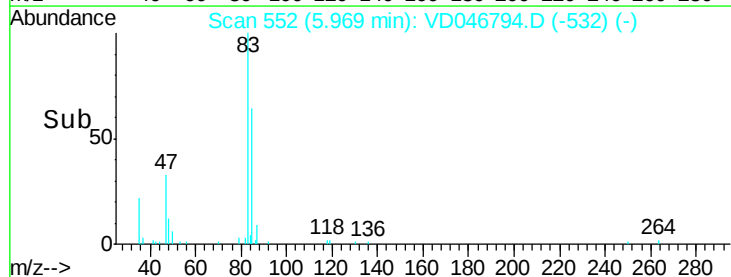
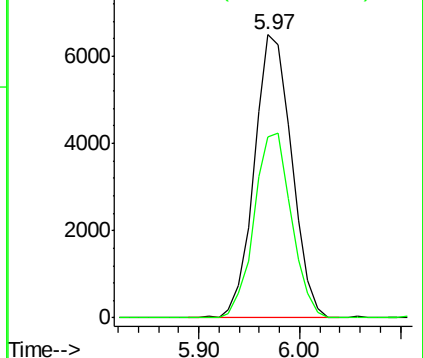
83 100

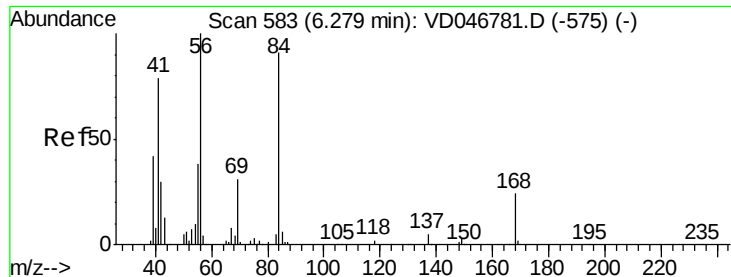
85 64.0 52.5 78.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

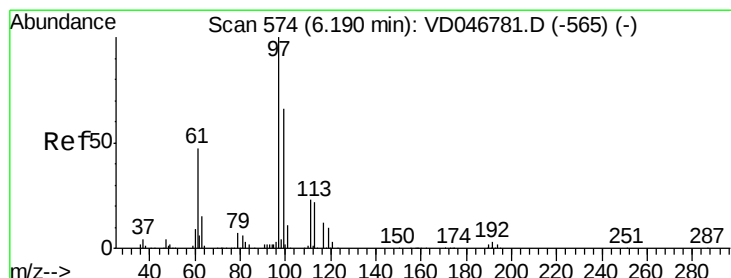
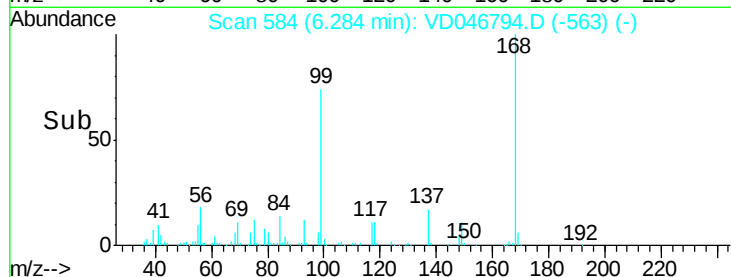
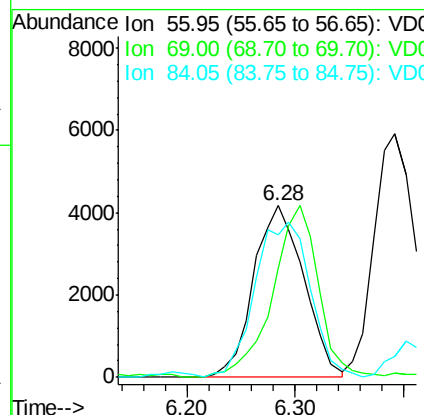
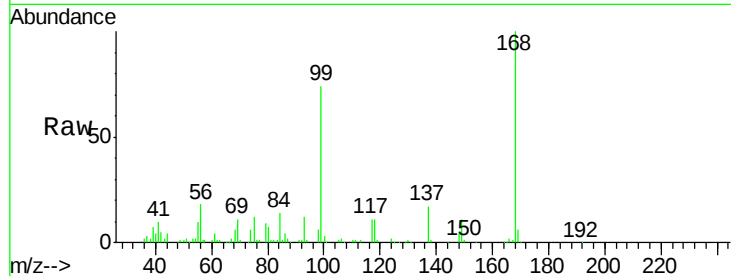




#31
Cyclohexane
Concen: 5.12 ug/l
RT: 6.28 min Scan# 584
Delta R.T. 0.01 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

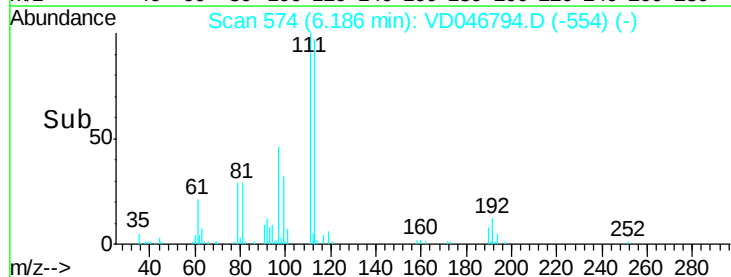
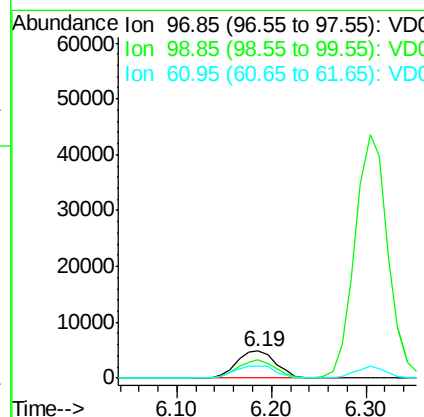
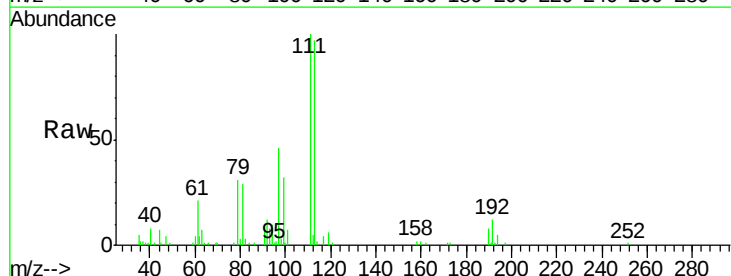
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

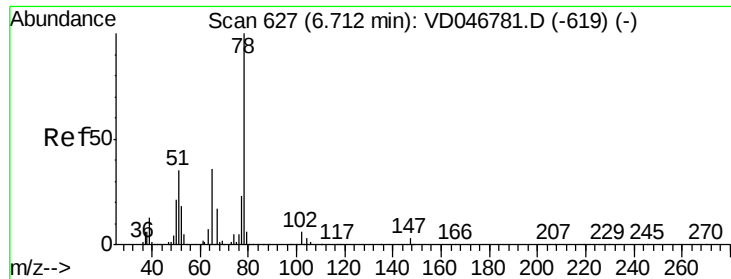
Tgt Ion: 56 Resp: 13443
Ion Ratio Lower Upper
56 100
69 63.4 23.4 35.0#
84 82.6 63.8 95.8



#32
1,1,1-Trichloroethane
Concen: 4.62 ug/l
RT: 6.19 min Scan# 574
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion: 97 Resp: 13964
Ion Ratio Lower Upper
97 100
99 70.0 50.2 75.4
61 45.3 38.6 57.8

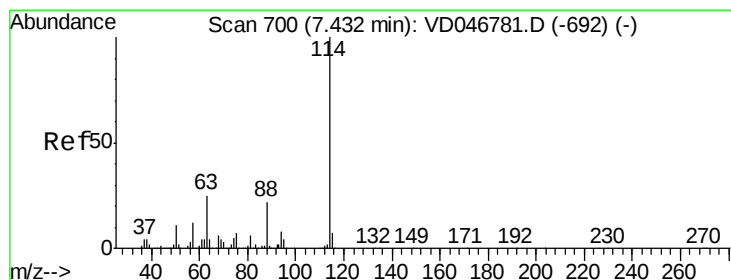
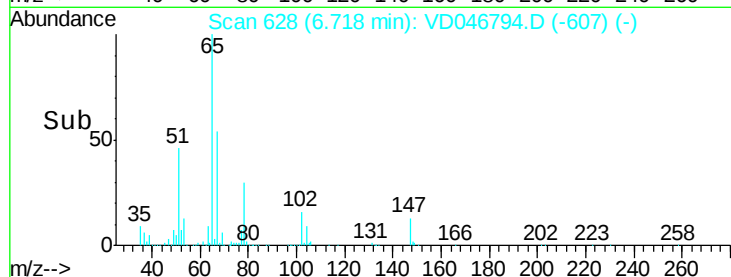
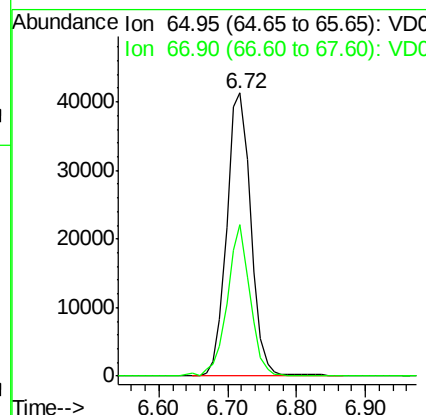
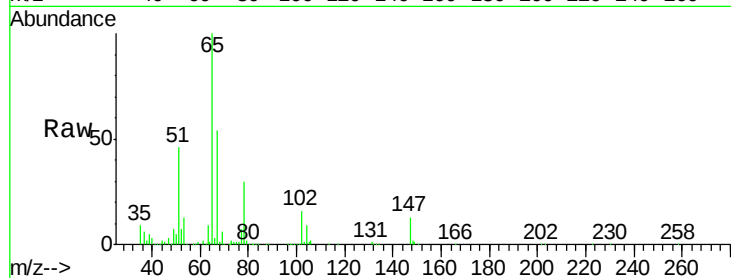




#33
 1,2-Dichloroethane-d4
 Concen: 4.62 ug/l
 RT: 6.72 min Scan# 628
 Delta R.T. 0.01 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

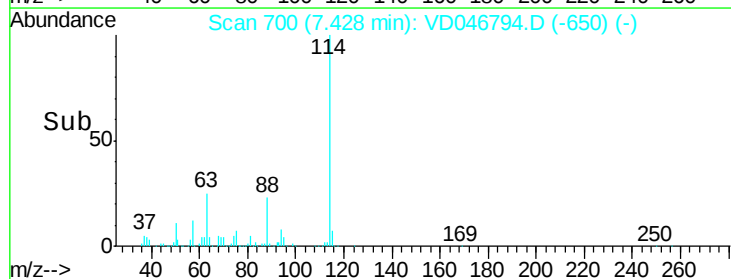
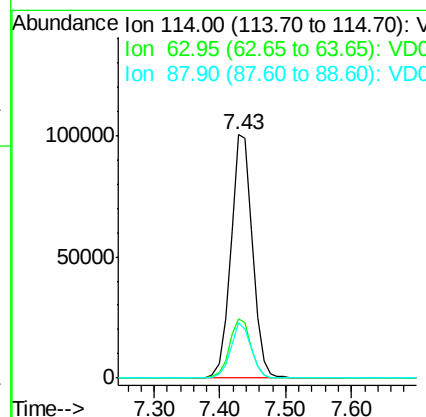
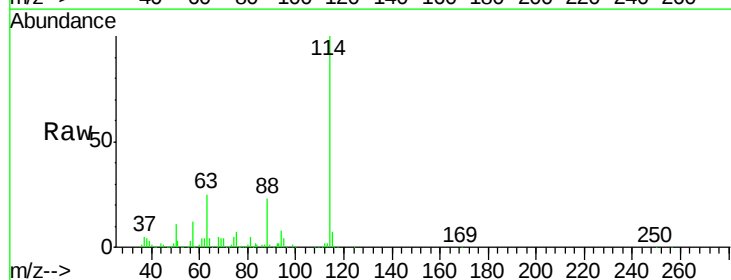
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

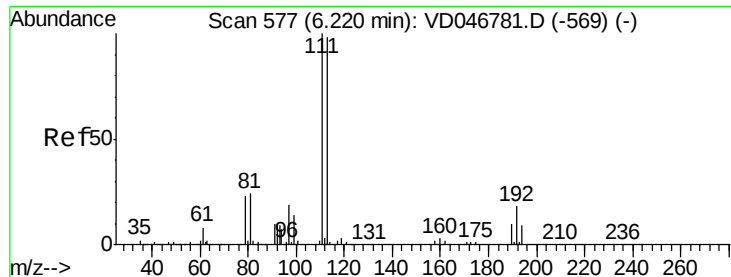
Tgt Ion: 65 Resp: 100674
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.43 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion: 114 Resp: 230794
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 49.8
 88 22.9 0.0 43.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.22 min Scan# 577

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

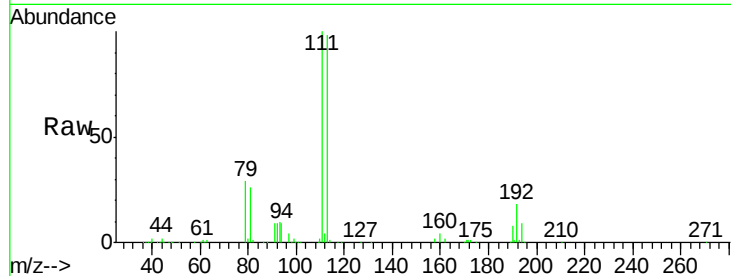
Tgt Ion:113 Resp: 94193

Ion Ratio Lower Upper

113 100

111 102.4 79.4 119.0

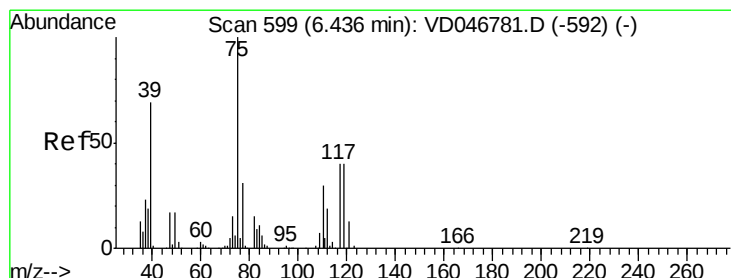
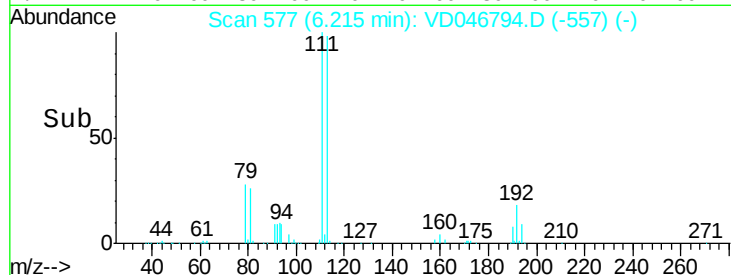
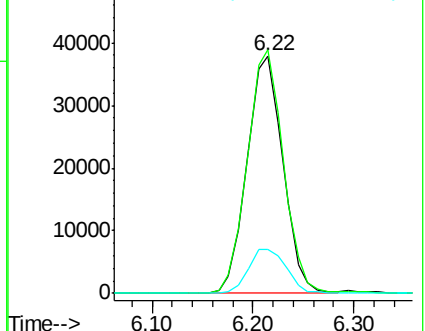
192 18.4 14.6 22.0



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: 4.12 ug/l

RT: 6.43 min Scan# 599

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

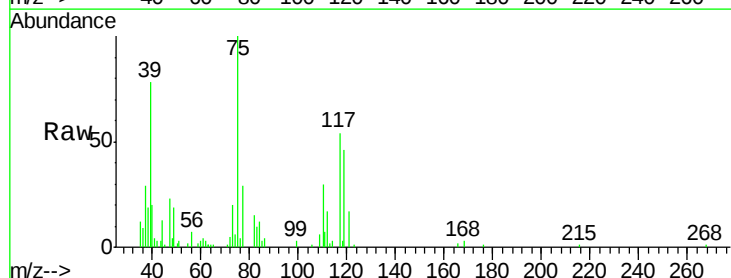
Tgt Ion: 75 Resp: 11114

Ion Ratio Lower Upper

75 100

110 30.3 13.7 41.0

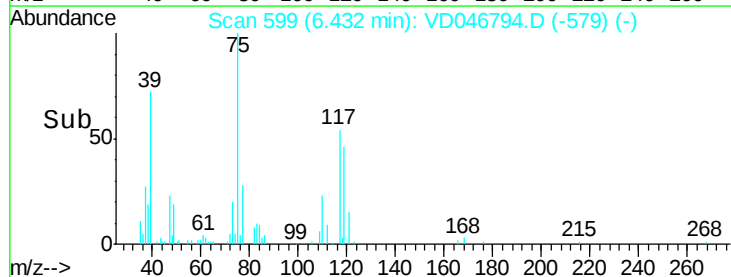
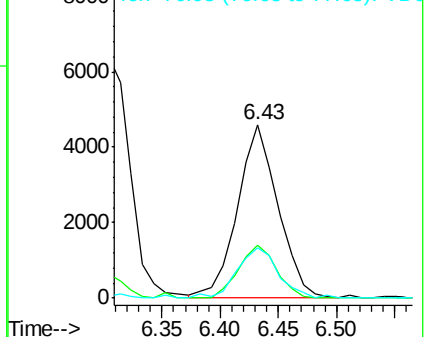
77 29.1 24.7 37.1

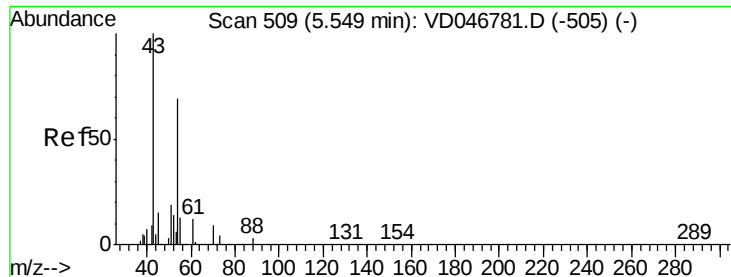


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

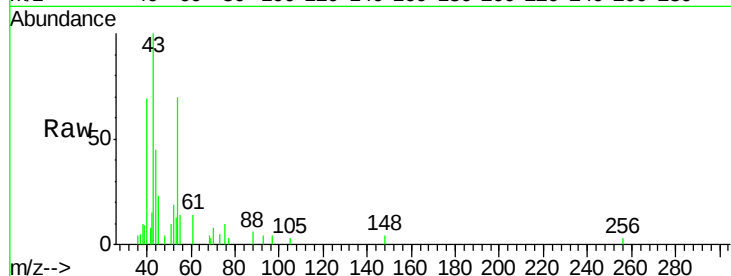




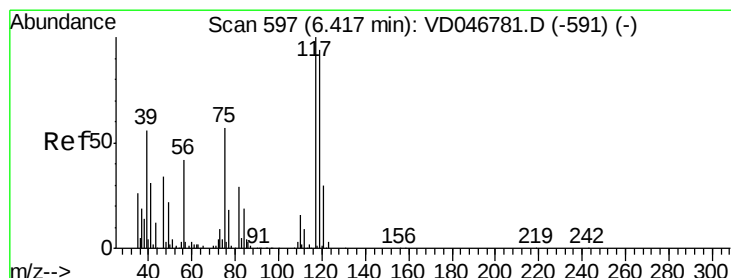
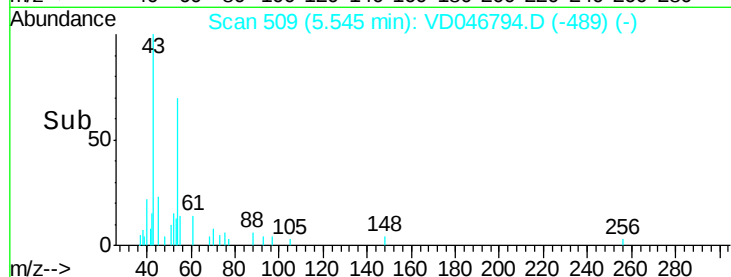
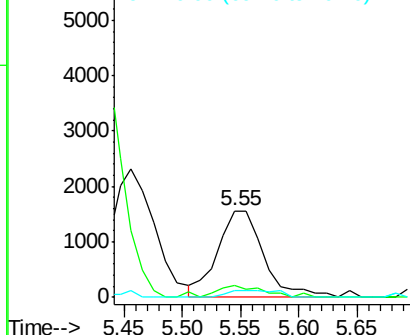
#37
Ethyl Acetate
Concen: 4.96 ug/l
RT: 5.55 min Scan# 509
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 4293
Ion Ratio Lower Upper
43 100
61 13.6 9.4 14.2
70 8.1 6.0 9.0

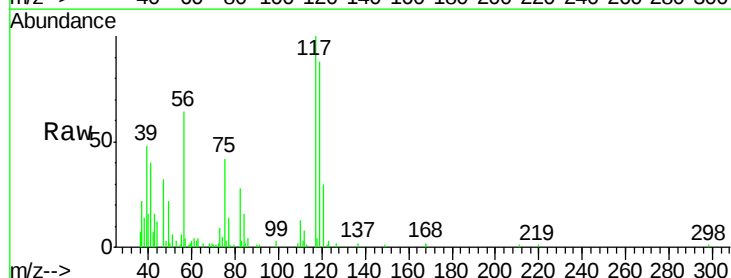


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

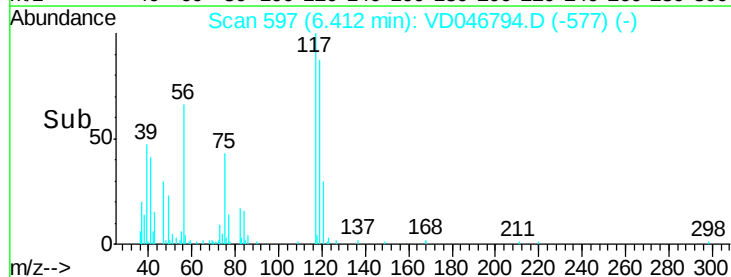
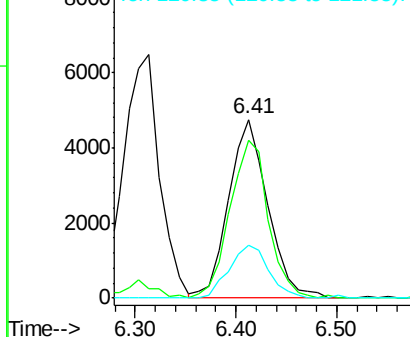


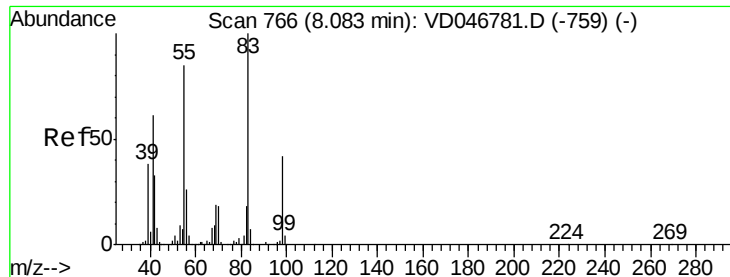
#38
Carbon Tetrachloride
Concen: 4.56 ug/l
RT: 6.41 min Scan# 597
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion: 117 Resp: 12784
Ion Ratio Lower Upper
117 100
119 88.3 76.2 114.4
121 29.6 24.5 36.7



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#39

Methylcyclohexane

Concen: 3.22 ug/l

RT: 8.09 min Scan# 767

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

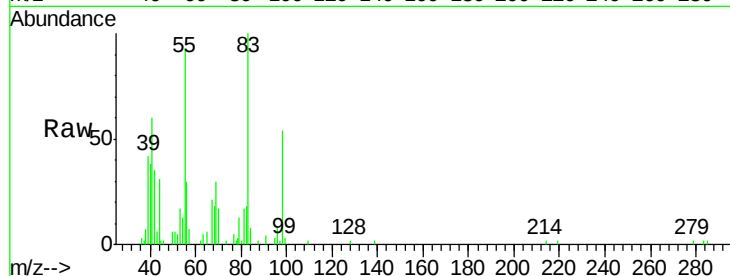
Tgt Ion: 83 Resp: 8809

Ion Ratio Lower Upper

83 100

55 92.6 71.1 106.7

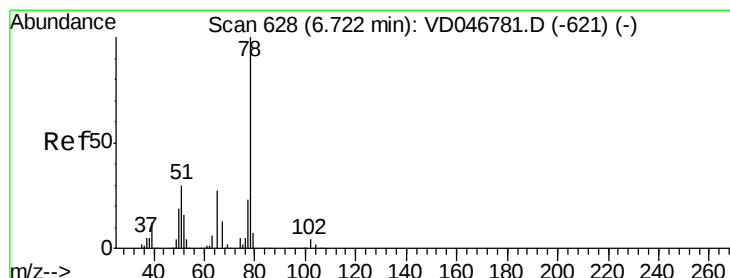
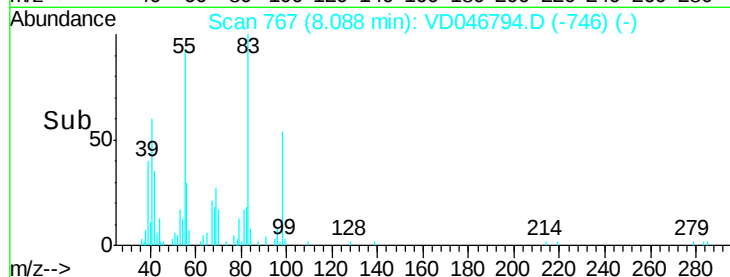
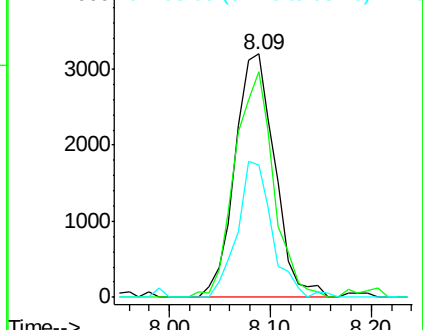
98 54.2 34.6 51.8#



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 4.20 ug/l

RT: 6.72 min Scan# 628

Delta R.T. -0.00 min

Lab File: VD046794.D

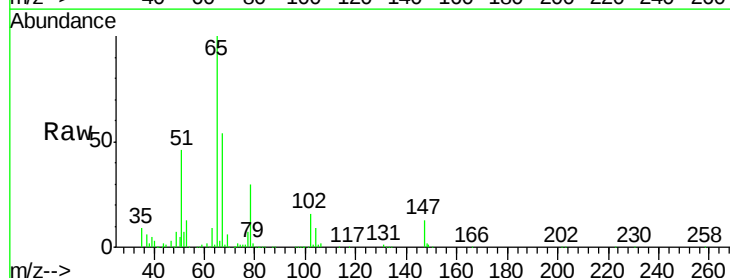
Acq: 18 Sep 2015 21:07

Tgt Ion: 78 Resp: 28950

Ion Ratio Lower Upper

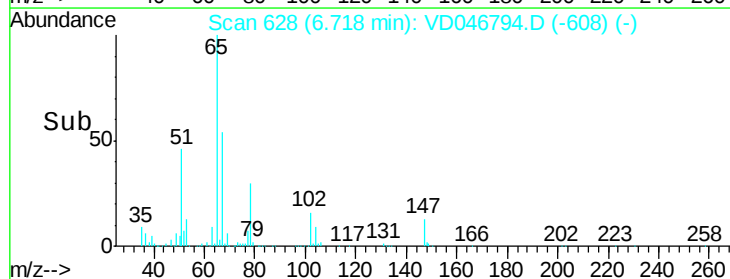
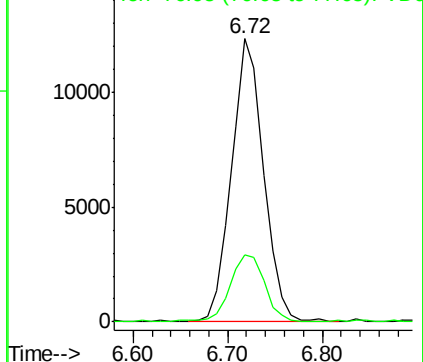
78 100

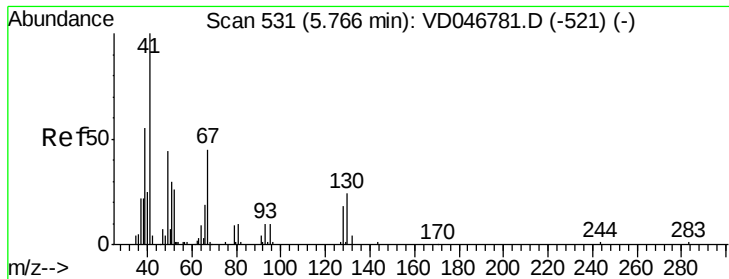
77 23.5 19.9 29.9



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 4.02 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion: 41 Resp: 1955

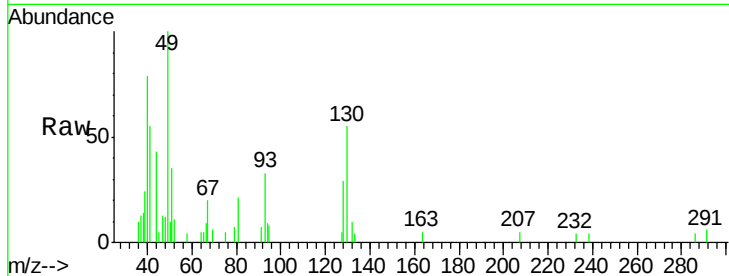
Ion Ratio Lower Upper

41 100

39 44.0 40.2 60.4

67 35.6 32.0 48.0

52 19.4 13.8 20.8

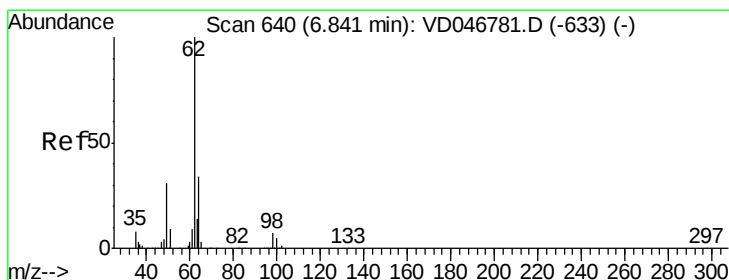
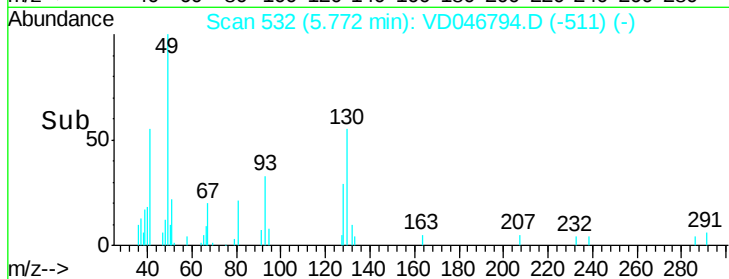
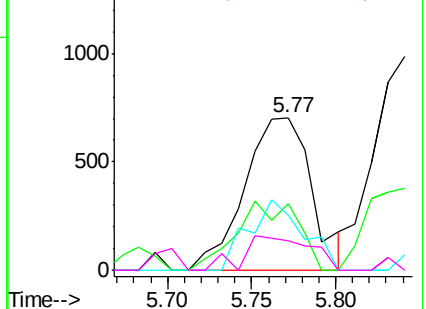


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 4.67 ug/l

RT: 6.83 min Scan# 639

Delta R.T. -0.01 min

Lab File: VD046794.D

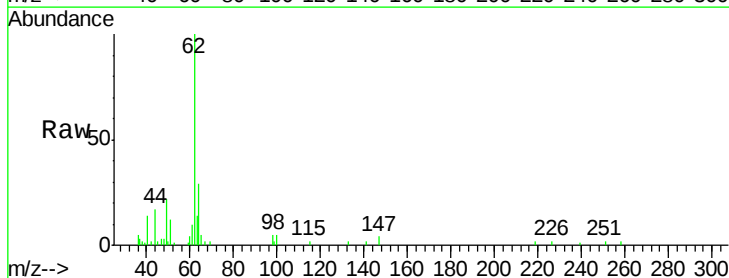
Acq: 18 Sep 2015 21:07

Tgt Ion: 62 Resp: 9991

Ion Ratio Lower Upper

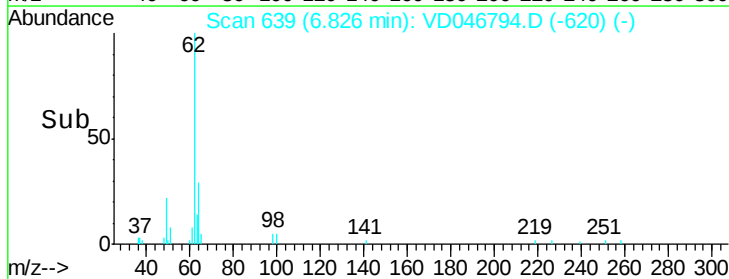
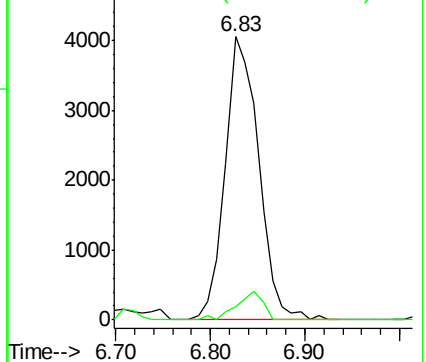
62 100

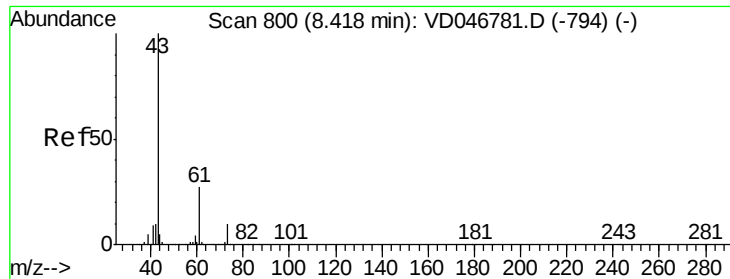
98 4.6 0.0 16.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 3.35 ug/l

RT: 8.42 min Scan# 801

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

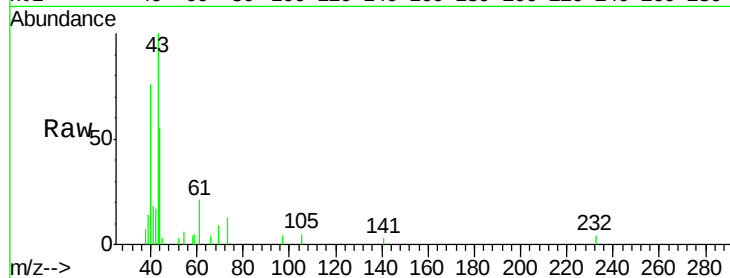
Tgt Ion: 43 Resp: 3829

Ion Ratio Lower Upper

43 100

61 20.9 19.5 29.3

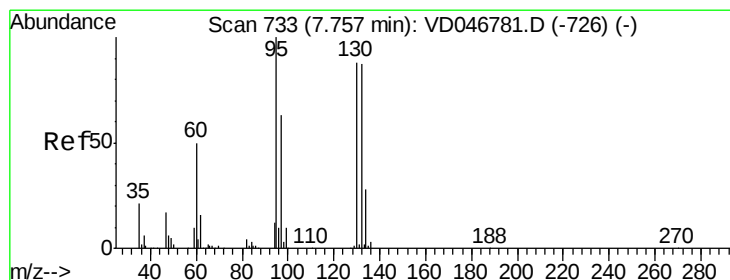
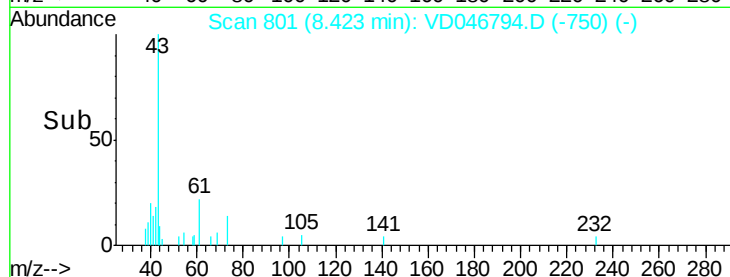
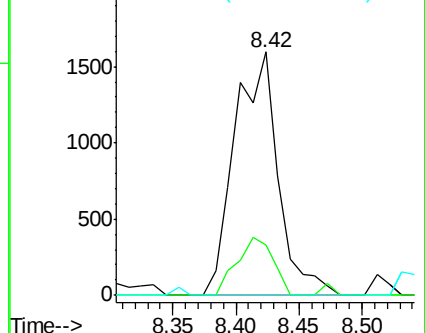
87 0.0 0.2 0.2#



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: 3.84 ug/l

RT: 7.75 min Scan# 733

Delta R.T. -0.00 min

Lab File: VD046794.D

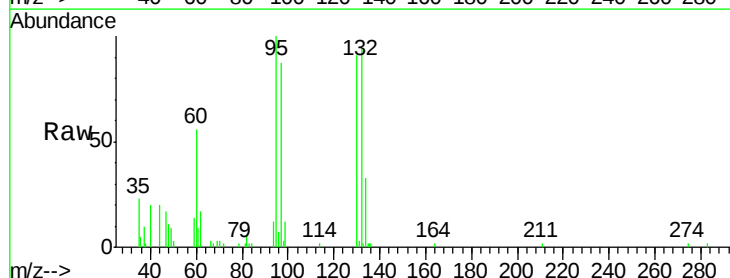
Acq: 18 Sep 2015 21:07

Tgt Ion: 130 Resp: 6620

Ion Ratio Lower Upper

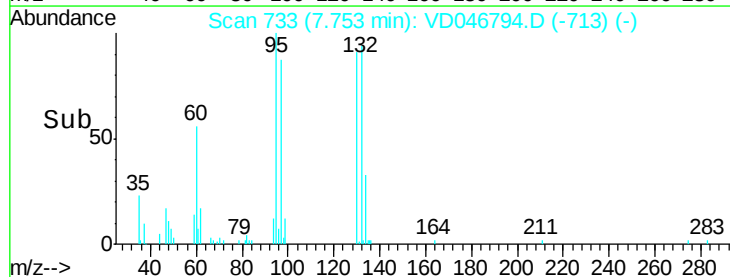
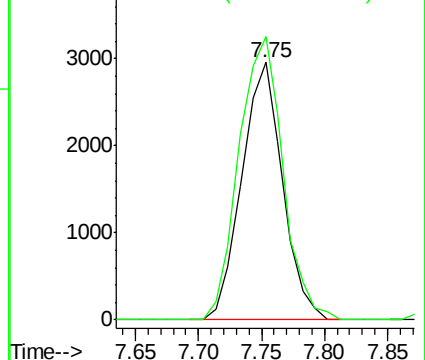
130 100

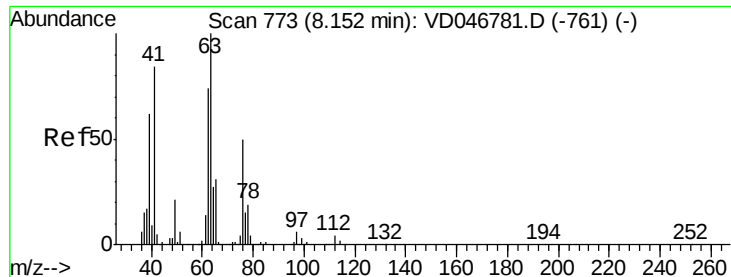
95 110.1 0.0 229.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

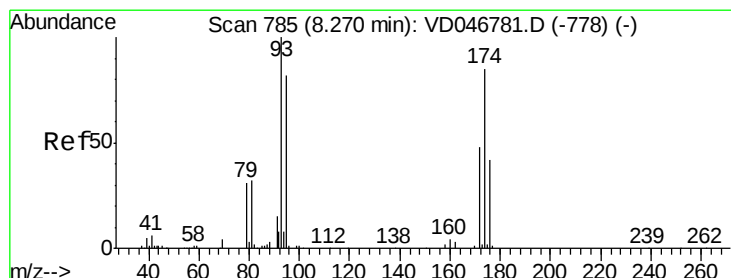
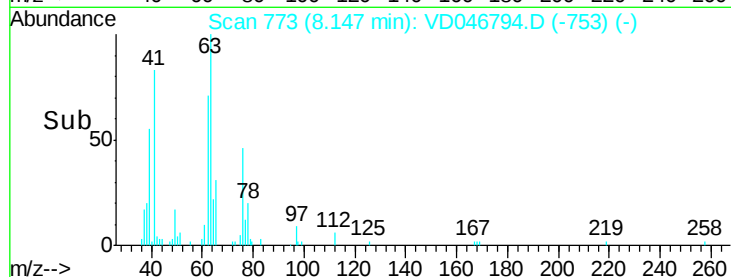
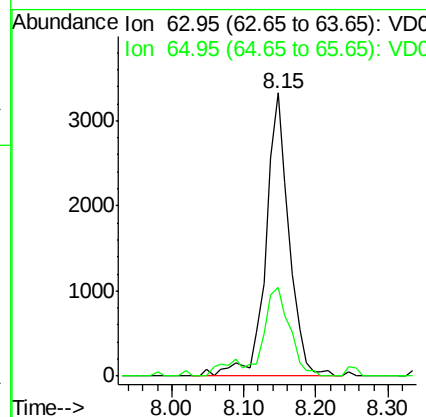
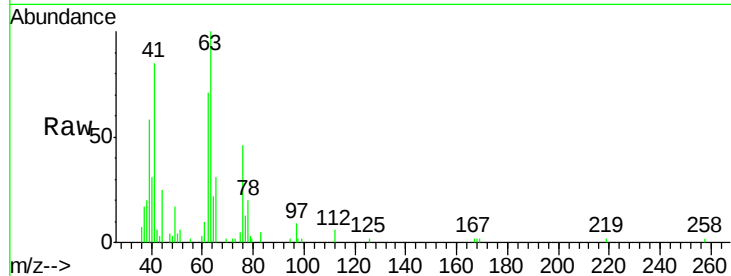




#45
 1,2-Dichloropropane
 Concen: 4.33 ug/l
 RT: 8.15 min Scan# 773
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

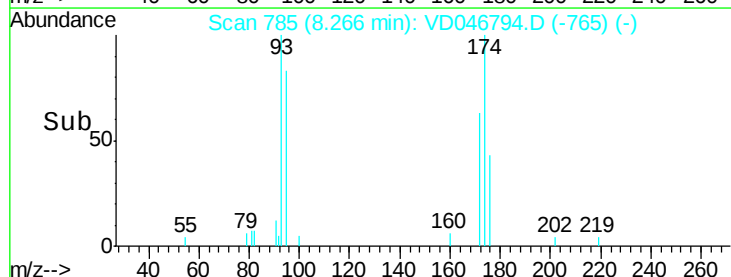
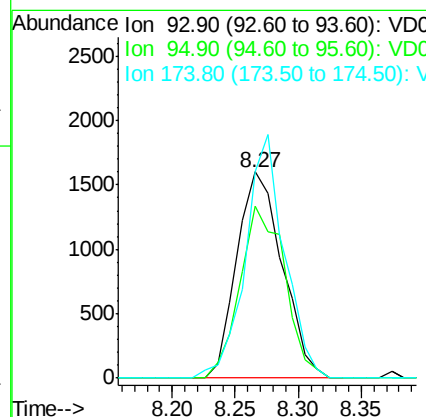
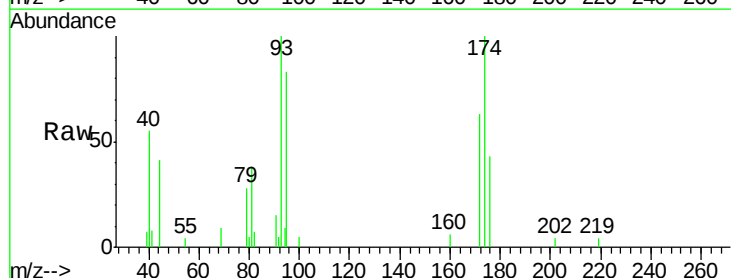
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

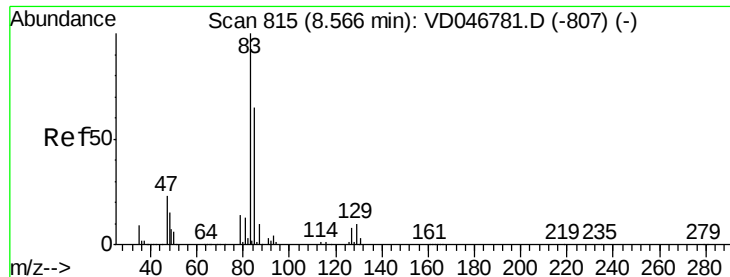
Tgt Ion: 63 Resp: 7389
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.1 37.7



#46
 Dibromomethane
 Concen: 4.14 ug/l
 RT: 8.27 min Scan# 785
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion: 93 Resp: 4009
 Ion Ratio Lower Upper
 93 100
 95 83.5 70.2 105.2
 174 100.4 79.0 118.4





#47

Bromodichloromethane

Concen: 4.33 ug/l

RT: 8.56 min Scan# 815

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

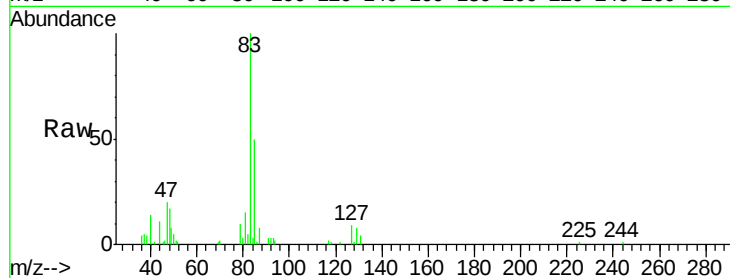
Tgt Ion: 83 Resp: 11004

Ion Ratio Lower Upper

83 100

85 50.2 52.6 78.8#

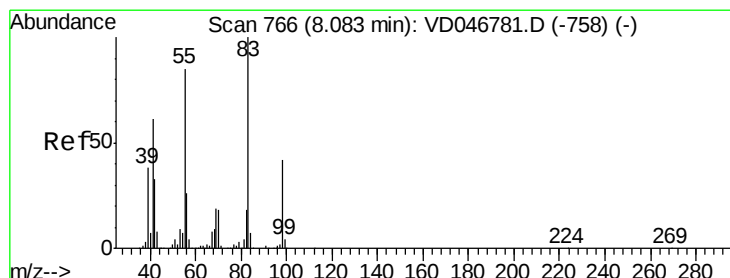
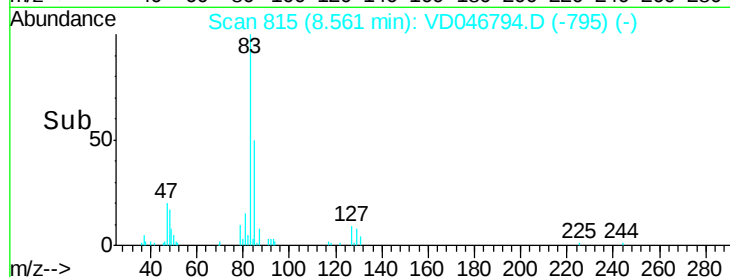
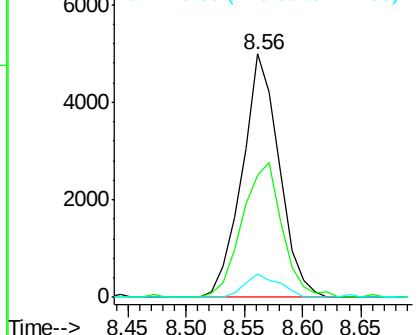
127 9.4 5.7 8.5#



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): V



#48

Methyl methacrylate

Concen: 3.53 ug/l

RT: 8.09 min Scan# 767

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

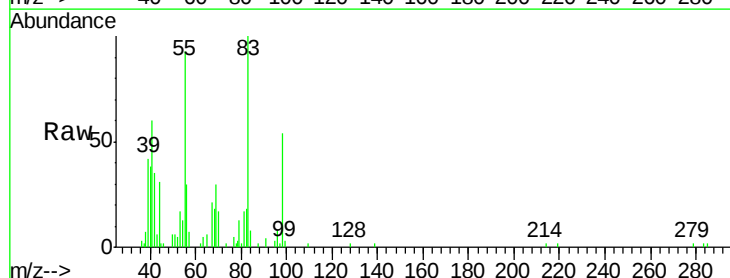
Tgt Ion: 41 Resp: 6160

Ion Ratio Lower Upper

41 100

69 50.9 25.3 37.9#

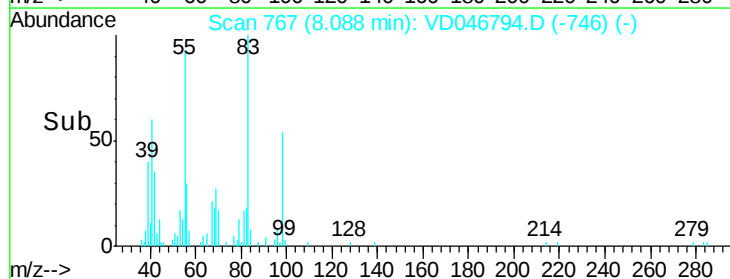
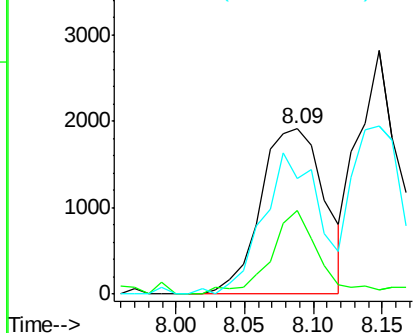
39 70.1 47.4 71.0

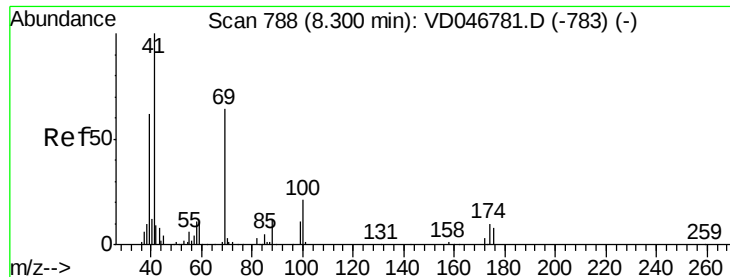


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

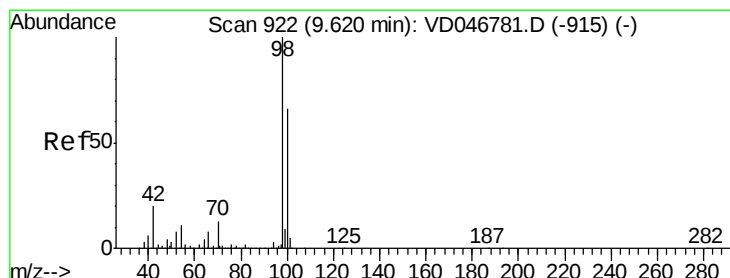
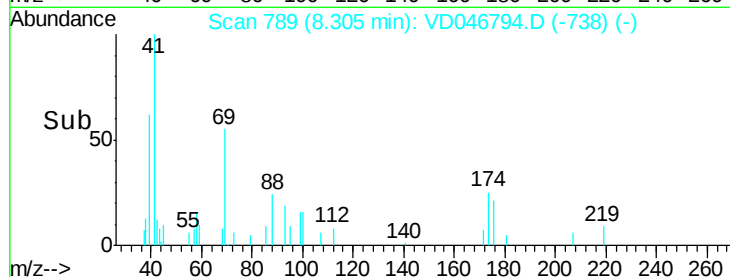
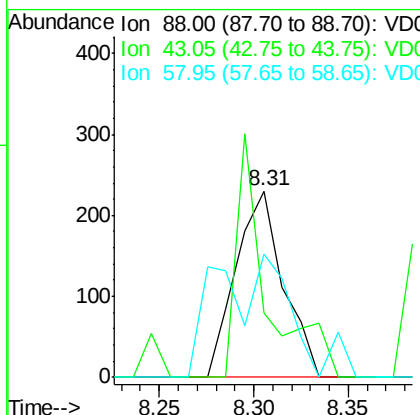
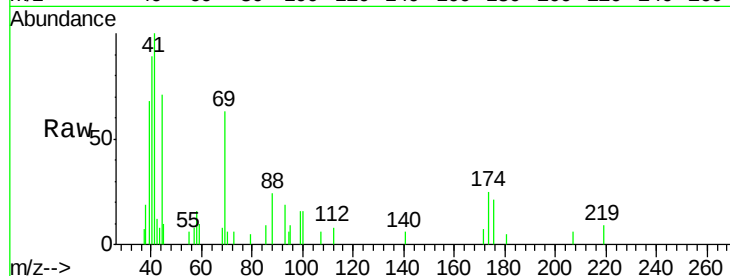




#49
 1,4-Dioxane
 Concen: 61.77 ug/l
 RT: 8.31 min Scan# 789
 Delta R.T. 0.01 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

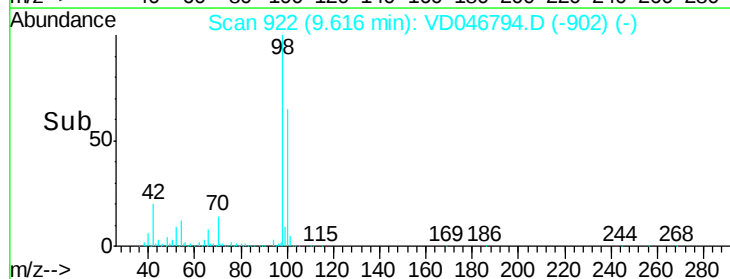
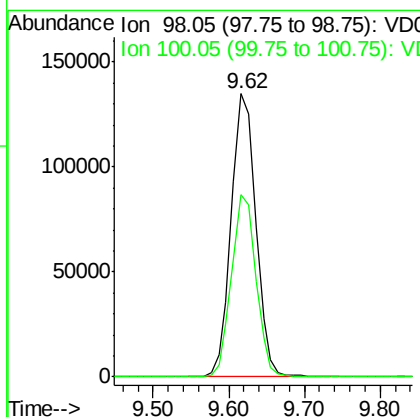
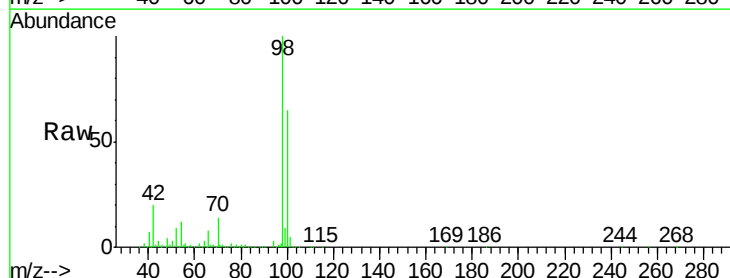
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

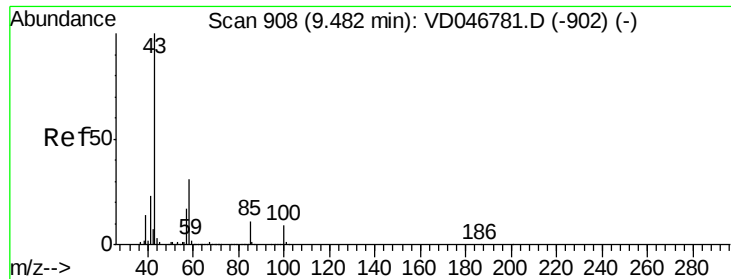
Tgt Ion: 88 Resp: 399
 Ion Ratio Lower Upper
 88 100
 43 34.8 50.0 75.0#
 58 66.1 48.3 72.5



#50
 Toluene-d8
 Concen: 61.77 ug/l
 RT: 9.62 min Scan# 922
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion: 98 Resp: 304171
 Ion Ratio Lower Upper
 98 100
 100 64.5 49.9 74.9

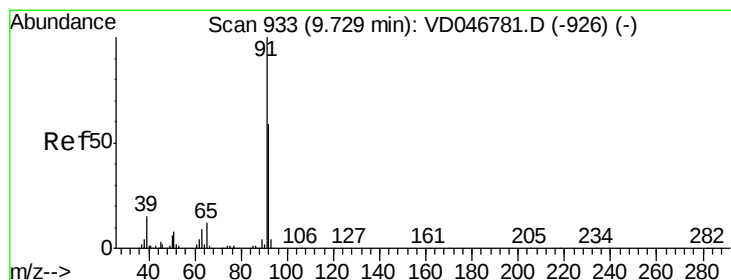
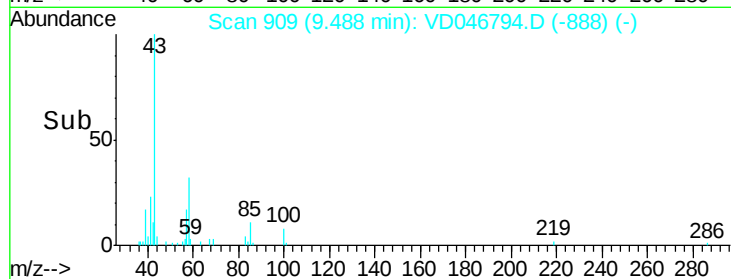
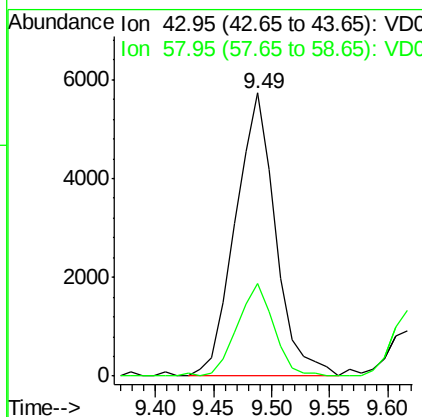
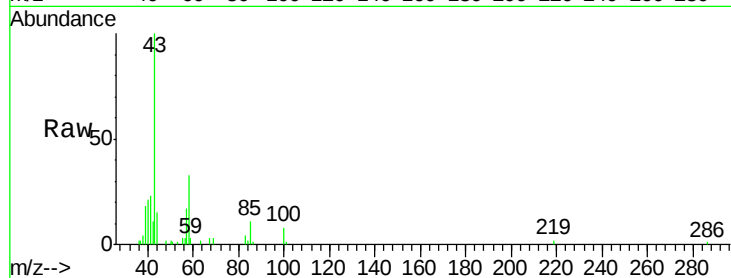




#51
 4-Methyl-2-Pentanone
 Concen: 16.58 ug/l
 RT: 9.49 min Scan# 909
 Delta R.T. 0.01 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

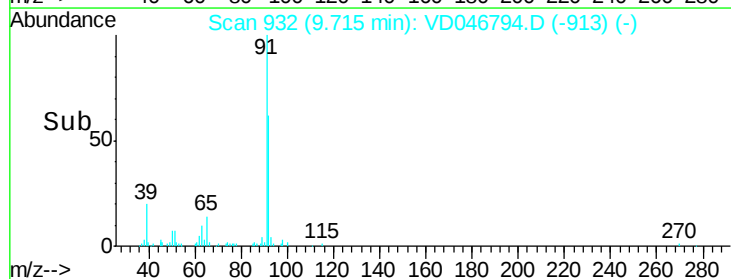
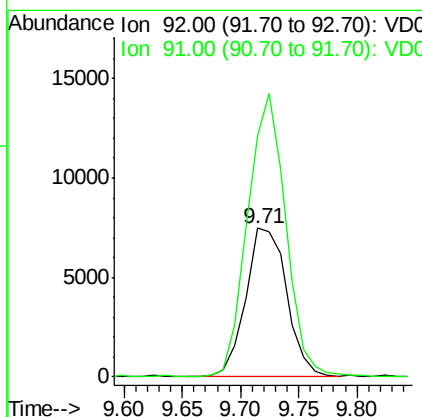
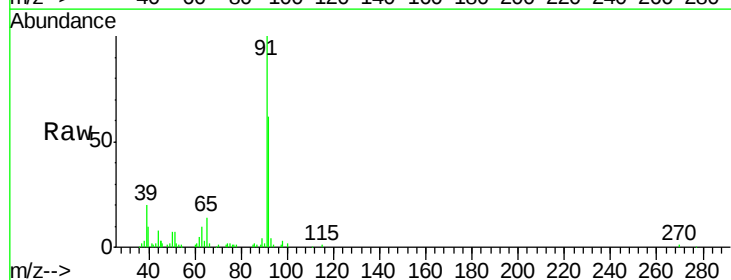
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

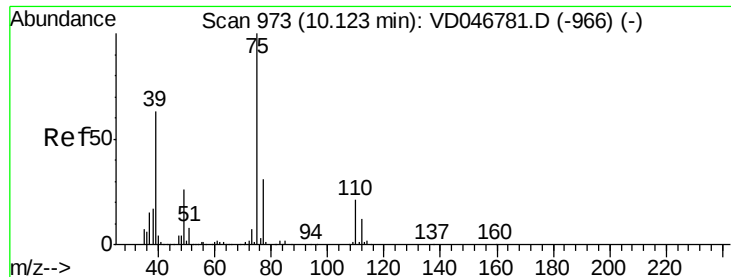
Tgt Ion: 43 Resp: 13683
 Ion Ratio Lower Upper
 43 100
 58 32.5 22.2 33.2



#52
 Toluene
 Concen: 4.30 ug/l
 RT: 9.71 min Scan# 932
 Delta R.T. -0.01 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion: 92 Resp: 18267
 Ion Ratio Lower Upper
 92 100
 91 161.8 139.4 209.0





#53

t-1,3-Dichloropropene

Concen: 3.56 ug/l

RT: 10.12 min Scan# 973

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

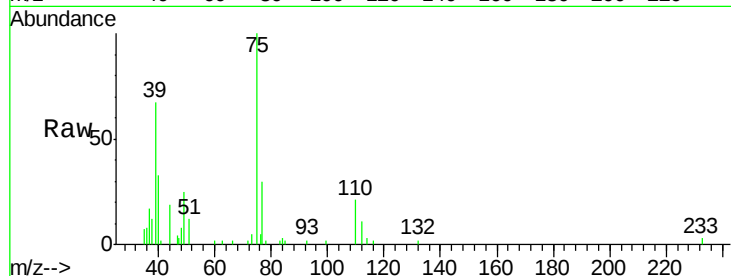
LOD-SOIL2015-01

Tgt Ion: 75 Resp: 6674

Ion Ratio Lower Upper

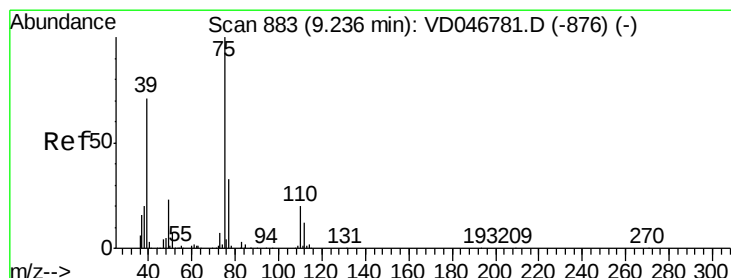
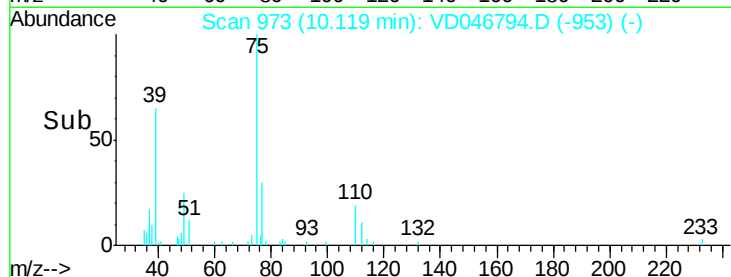
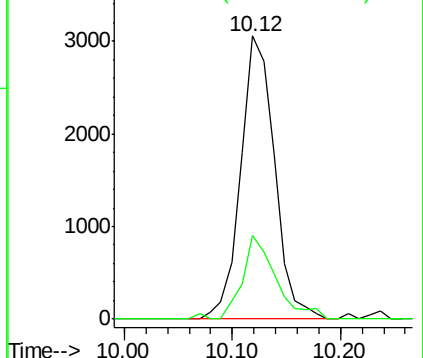
75 100

77 29.6 27.6 41.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 3.58 ug/l

RT: 9.23 min Scan# 883

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

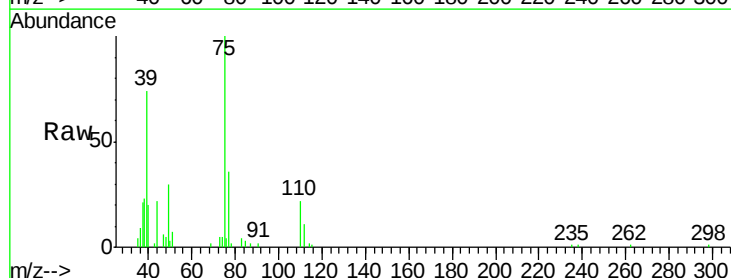
Tgt Ion: 75 Resp: 8655

Ion Ratio Lower Upper

75 100

77 35.6 23.8 35.6

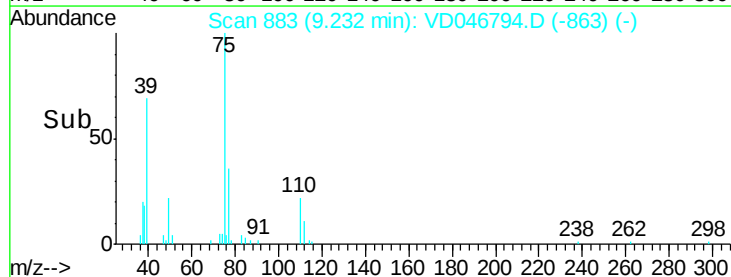
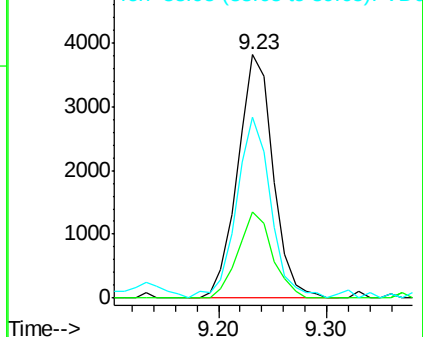
39 74.1 53.0 79.6

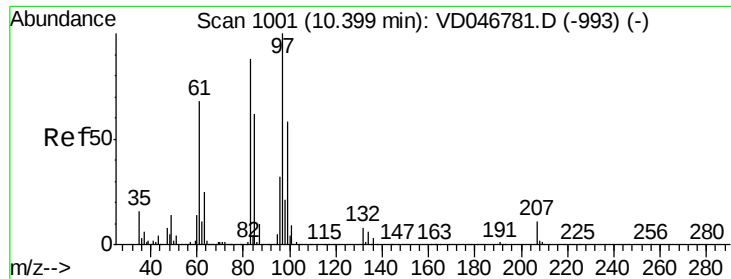


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 4.36 ug/l

RT: 10.39 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion: 97 Resp: 4792

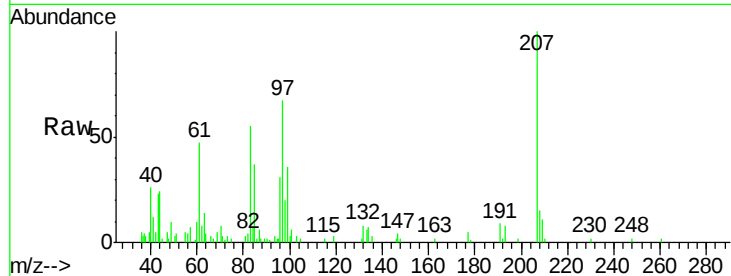
Ion Ratio Lower Upper

97 100

83 81.6 75.3 112.9

85 55.5 50.9 76.3

99 52.9 46.9 70.3

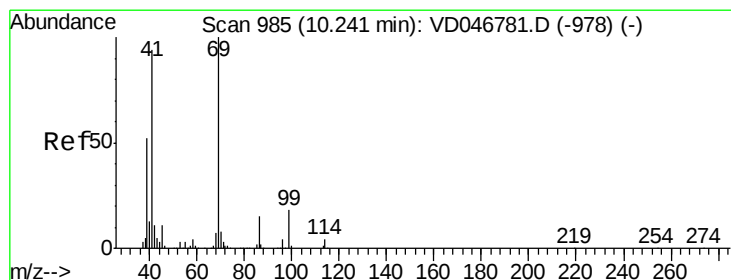
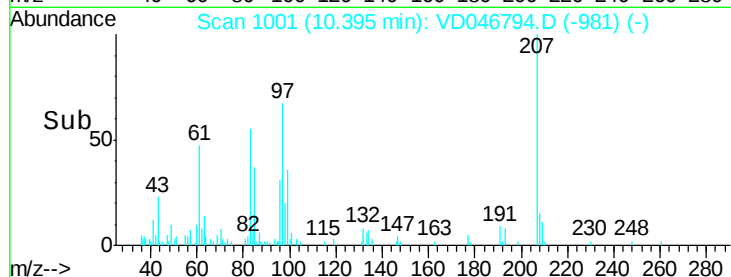
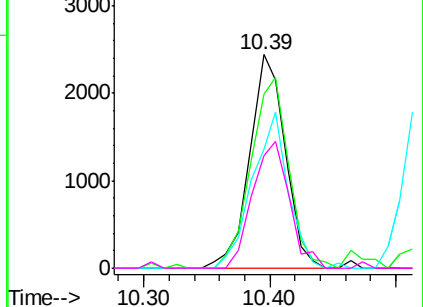


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 6.22 ug/l

RT: 10.24 min Scan# 985

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

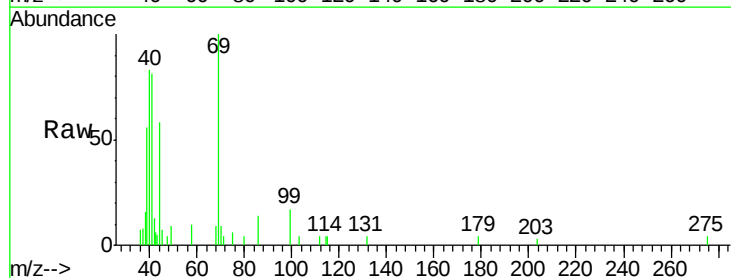
Tgt Ion: 69 Resp: 2903

Ion Ratio Lower Upper

69 100

41 81.3 75.4 113.0

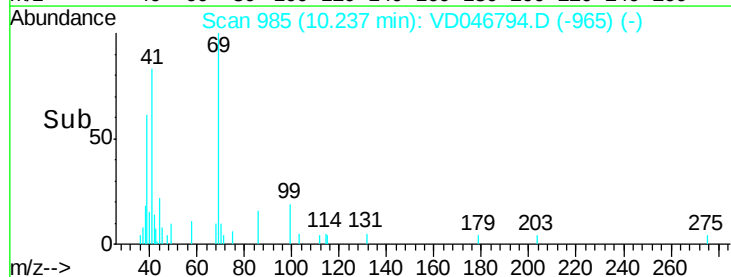
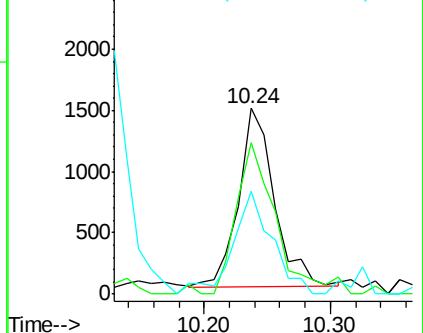
39 55.6 41.0 61.4

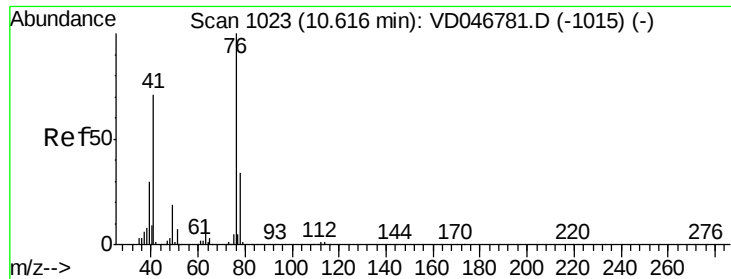


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 4.39 ug/l

RT: 10.61 min Scan# 1023

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

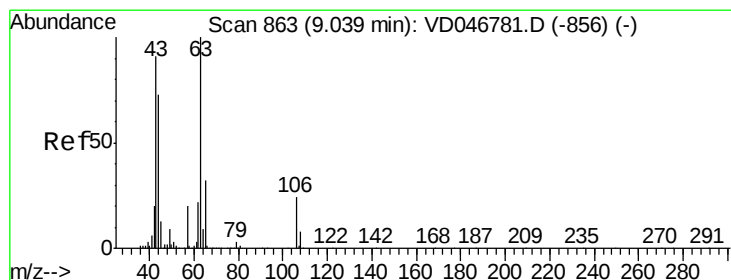
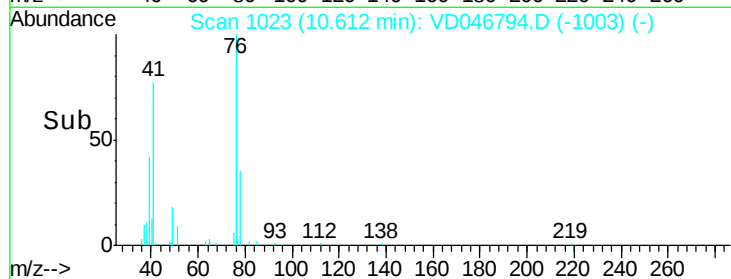
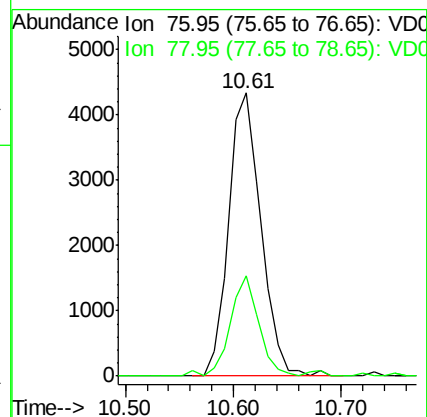
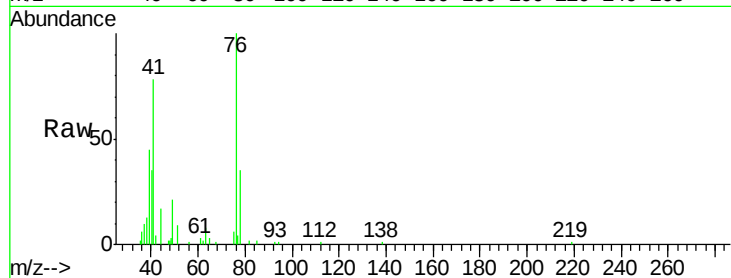
LOD-SOIL2015-01

Tgt Ion: 76 Resp: 8974

Ion Ratio Lower Upper

76 100

78 35.4 26.6 39.8



#58

2-Chloroethyl Vinyl ether

Concen: 19.03 ug/l

RT: 9.03 min Scan# 863

Delta R.T. -0.00 min

Lab File: VD046794.D

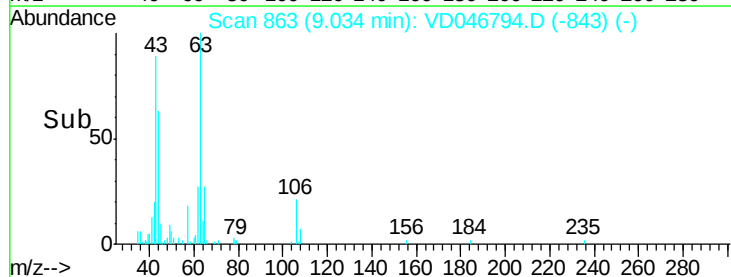
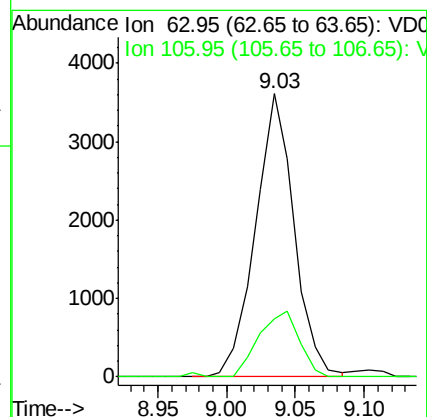
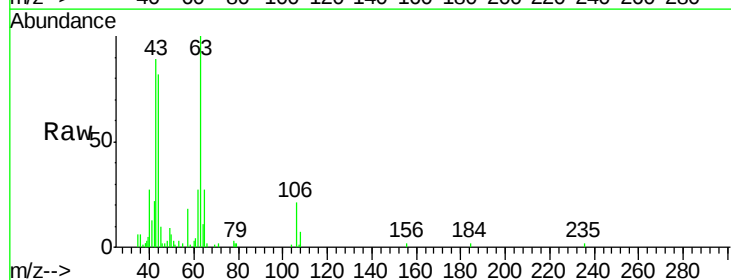
Acq: 18 Sep 2015 21:07

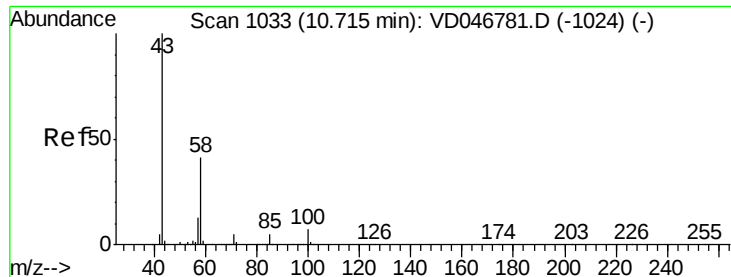
Tgt Ion: 63 Resp: 7069

Ion Ratio Lower Upper

63 100

106 20.7 17.8 26.8

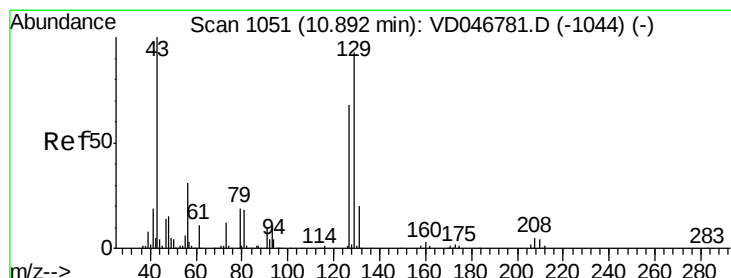
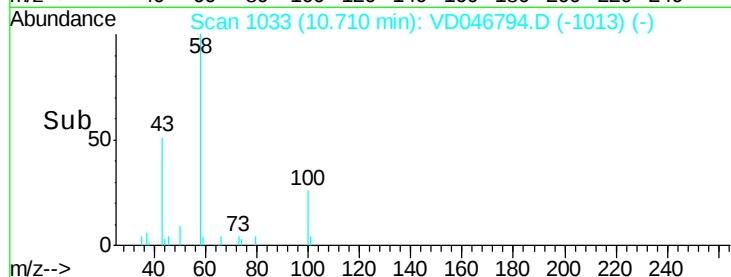
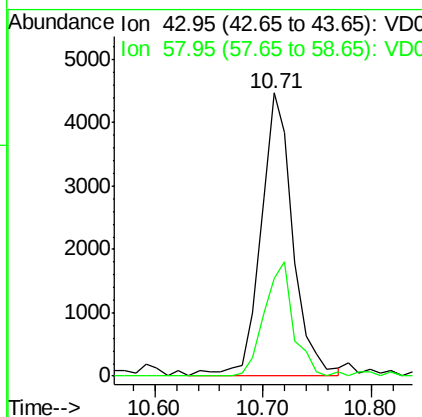
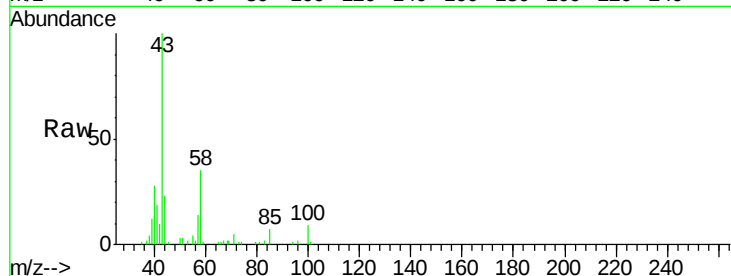




#59
2-Hexanone
Concen: 15.56 ug/l
RT: 10.71 min Scan# 1033
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

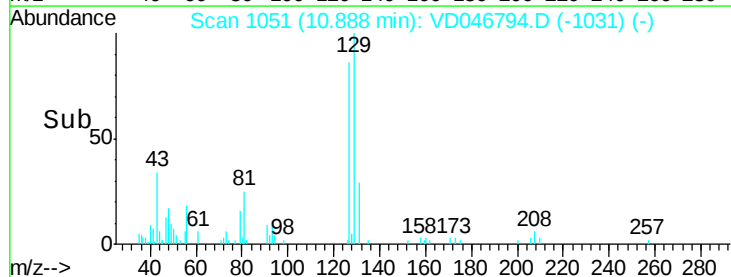
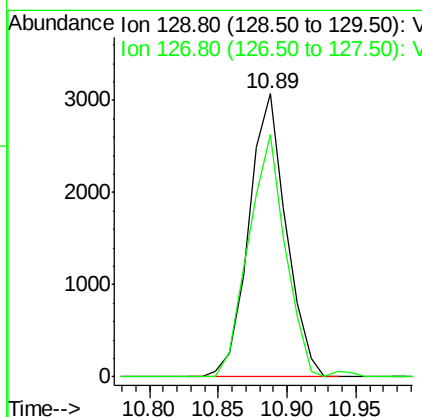
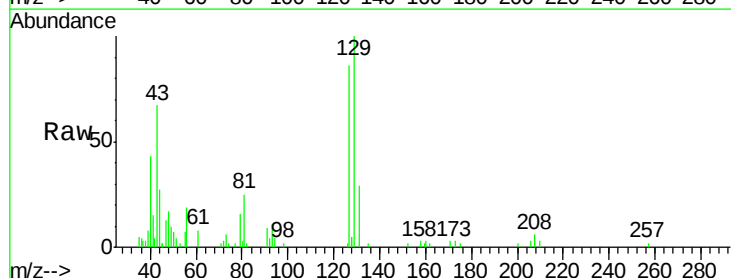
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

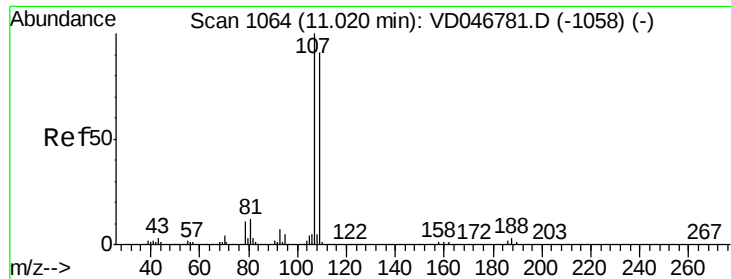
Tgt Ion: 43 Resp: 9274
Ion Ratio Lower Upper
43 100
58 34.8 18.6 55.8



#60
Dibromochloromethane
Concen: 3.84 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion: 129 Resp: 5790
Ion Ratio Lower Upper
129 100
127 85.7 38.2 114.6

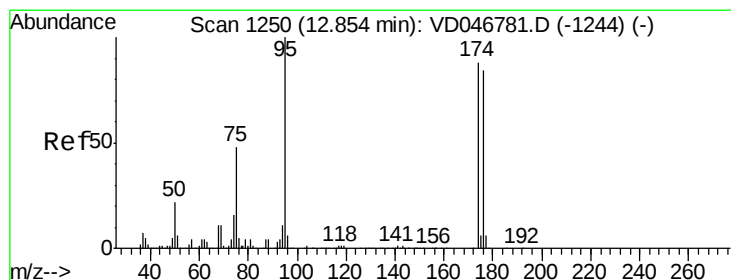
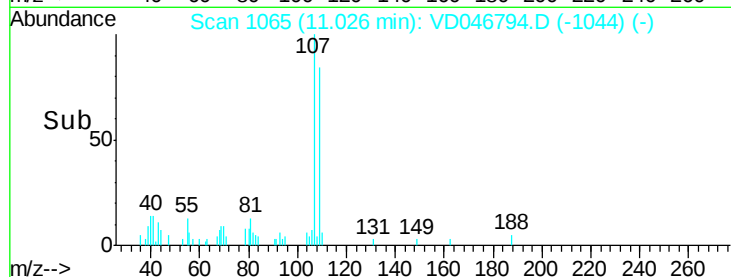
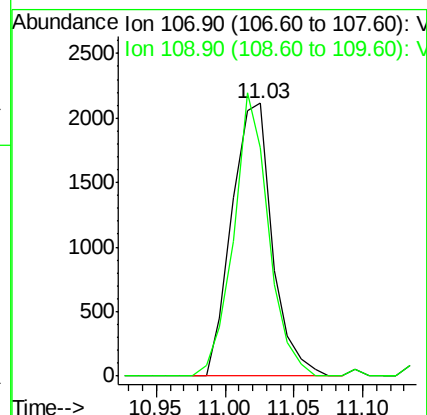
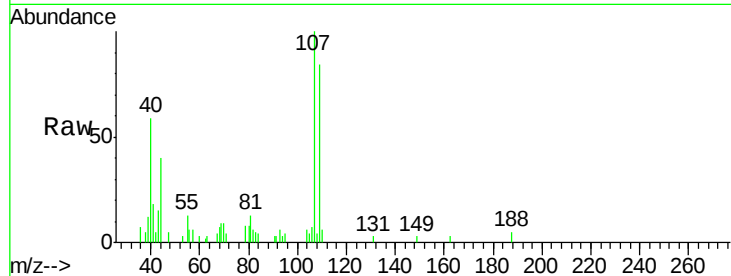




#61
 1,2-Dibromoethane
 Concen: 3.99 ug/l
 RT: 11.03 min Scan# 1065
 Delta R.T. 0.01 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

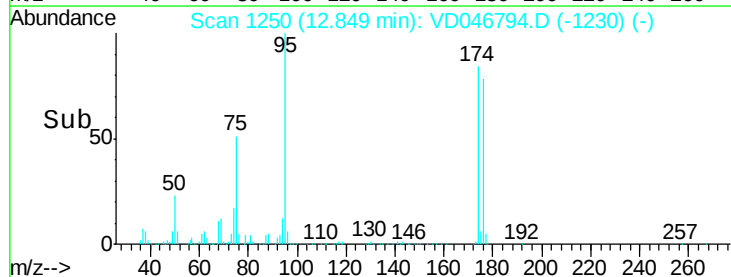
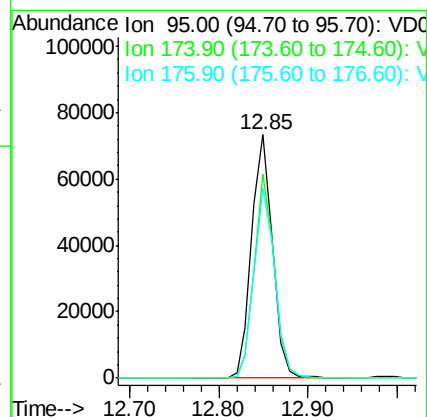
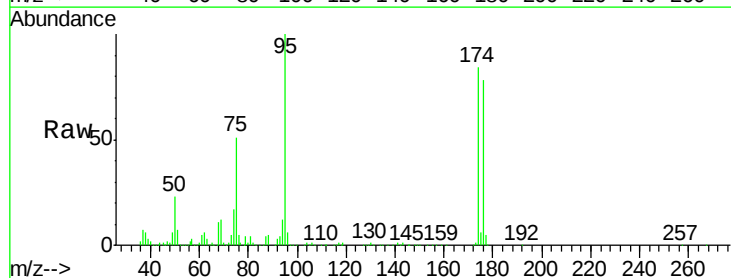
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

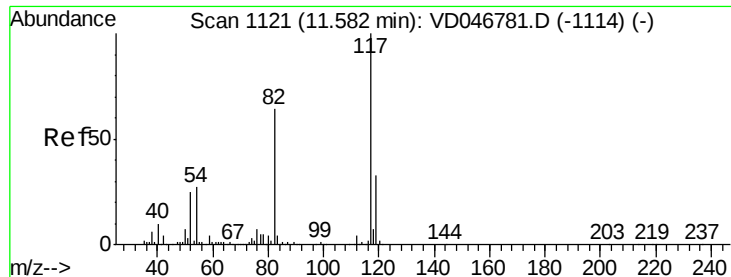
Tgt Ion: 107 Resp: 4328
 Ion Ratio Lower Upper
 107 100
 109 83.6 71.4 107.0



#62
 4-Bromofluorobenzene
 Concen: 3.99 ug/l
 RT: 12.85 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion: 95 Resp: 118374
 Ion Ratio Lower Upper
 95 100
 174 83.8 0.0 149.8
 176 77.8 0.0 143.4

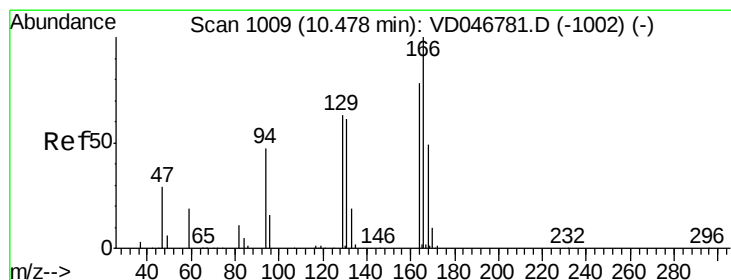
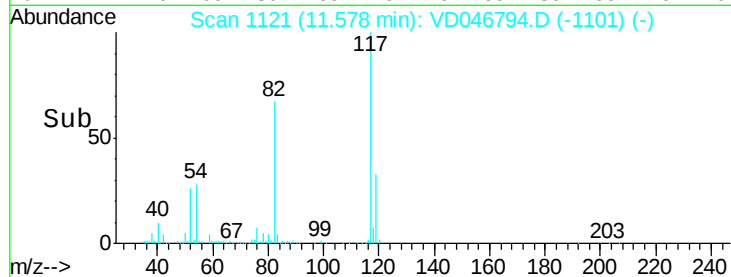
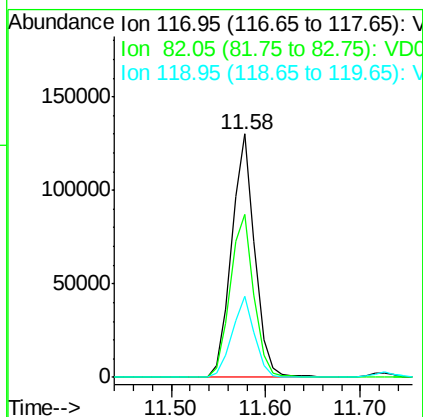
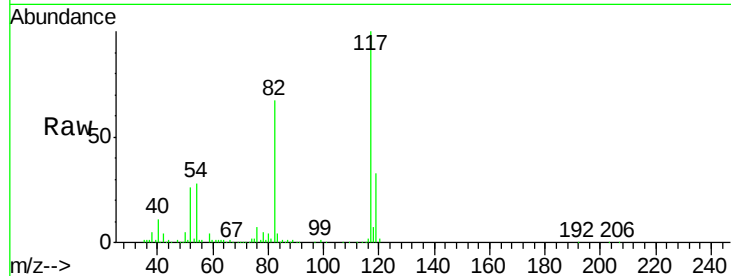




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

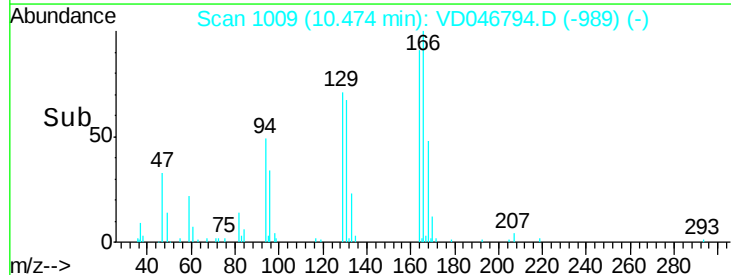
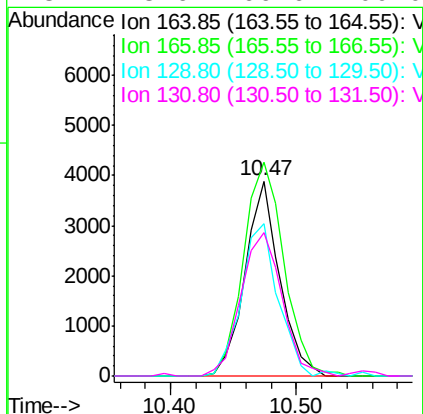
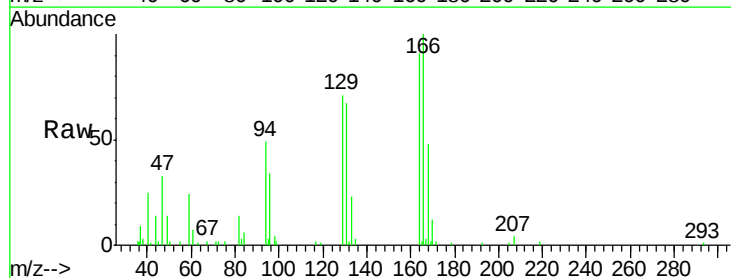
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

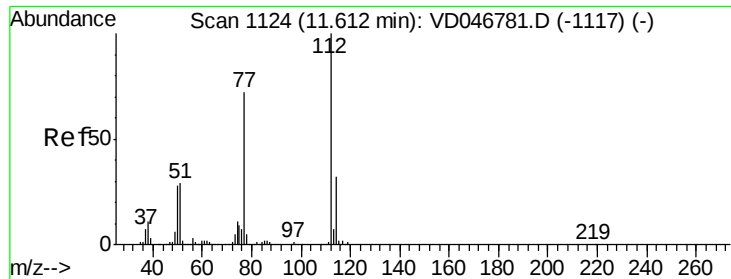
Tgt Ion:117 Resp: 219753
Ion Ratio Lower Upper
117 100
82 67.1 50.6 75.8
119 33.2 25.8 38.8



#64
Tetrachloroethene
Concen: 4.17 ug/l
RT: 10.47 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion:164 Resp: 7397
Ion Ratio Lower Upper
164 100
166 109.7 106.8 160.2
129 78.0 70.6 106.0
131 73.6 66.6 100.0





#65

Chlorobenzene

Concen: 4.30 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

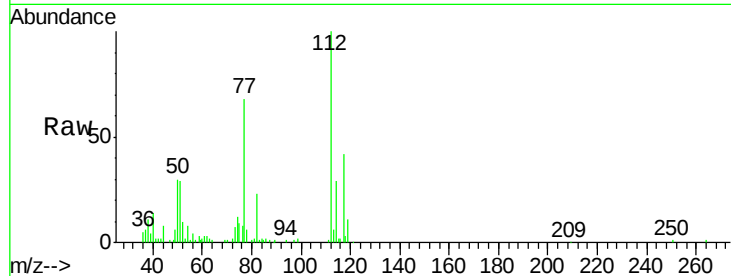
LOD-SOIL2015-01

Tgt Ion:112 Resp: 19902

Ion Ratio Lower Upper

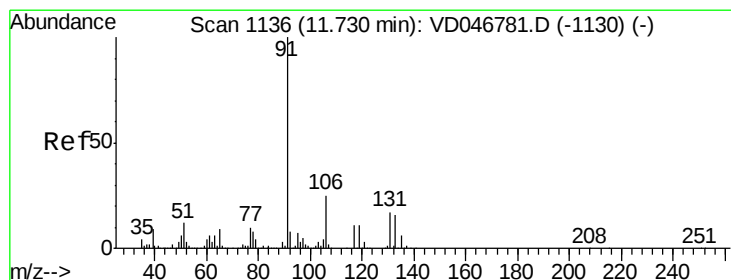
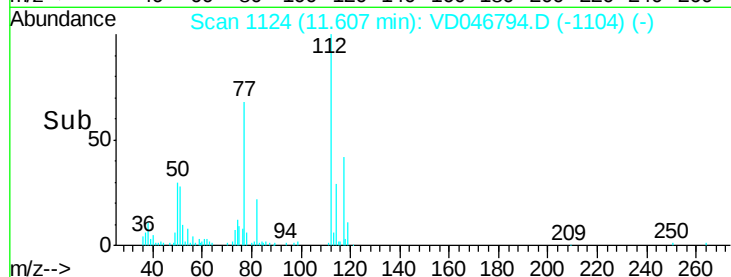
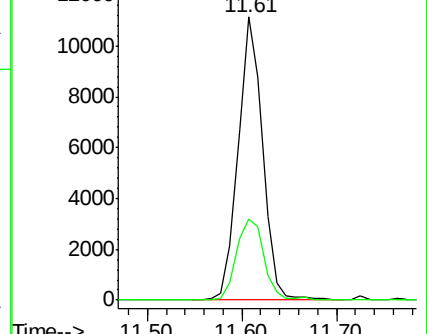
112 100

114 28.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 4.41 ug/l

RT: 11.73 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

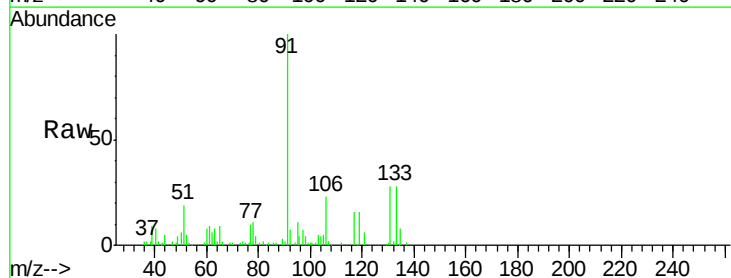
Tgt Ion:131 Resp: 7497

Ion Ratio Lower Upper

131 100

133 100.2 48.4 145.0

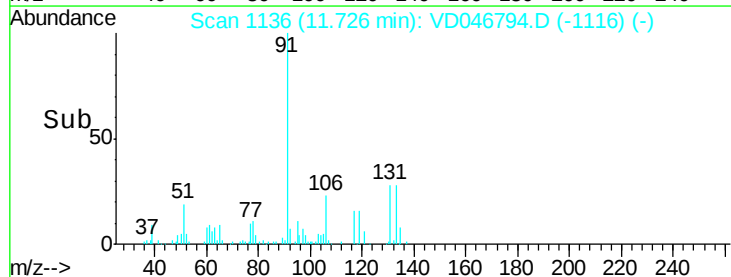
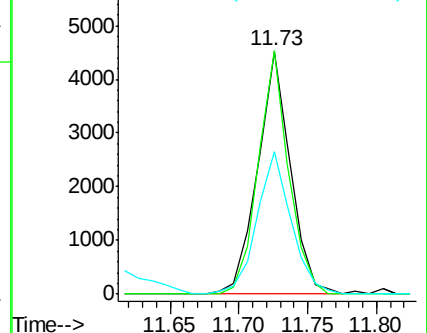
119 58.7 31.5 94.5

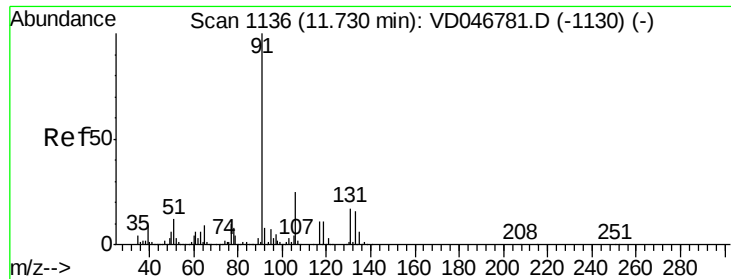


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V





#67

Ethyl Benzene

Concen: 3.63 ug/l

RT: 11.74 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

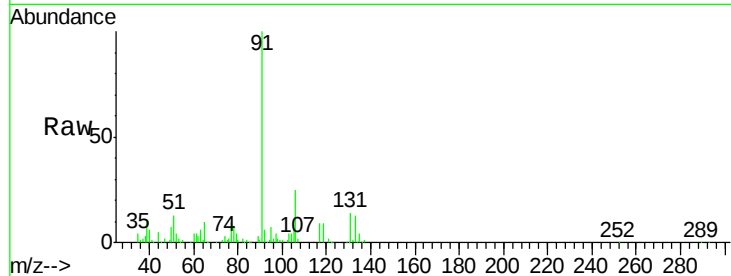
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 33751

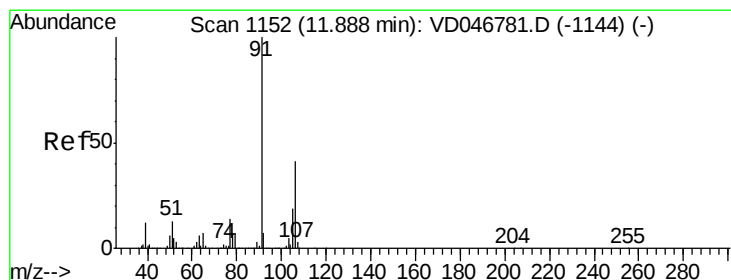
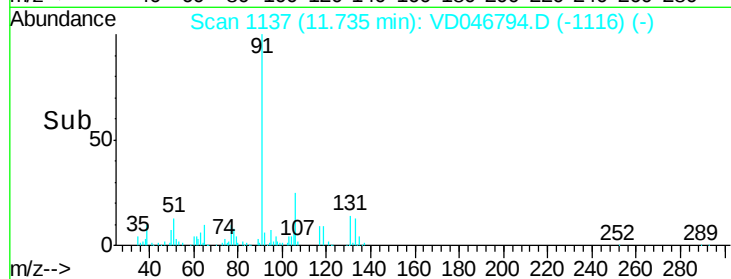
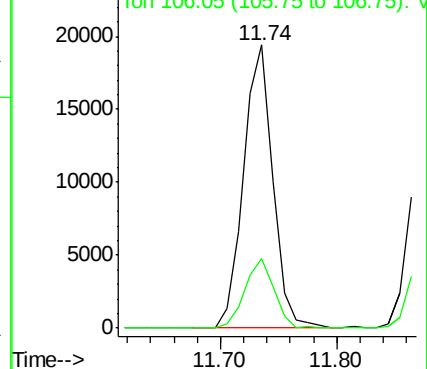
Ion Ratio Lower Upper

91 100

106 24.5 20.2 30.2



Abundance Ion 91.00 (90.70 to 91.70): VDC



#68

m/p-Xylenes

Concen: 7.15 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VD046794.D

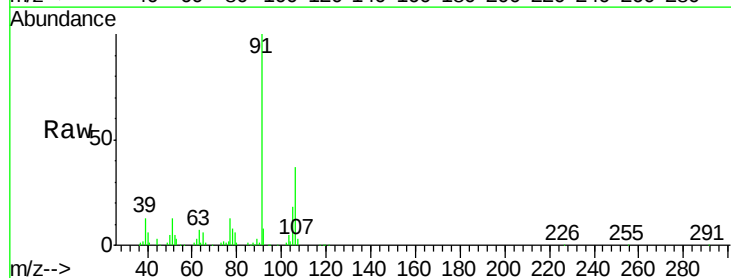
Acq: 18 Sep 2015 21:07

Tgt Ion: 106 Resp: 20945

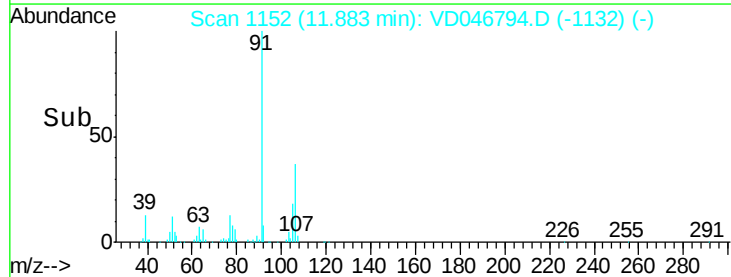
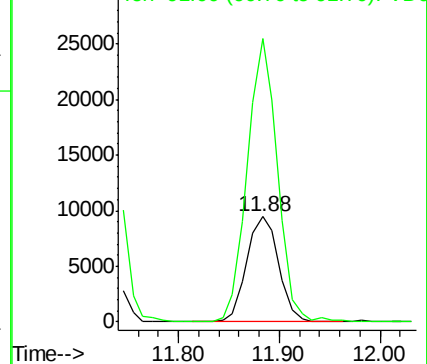
Ion Ratio Lower Upper

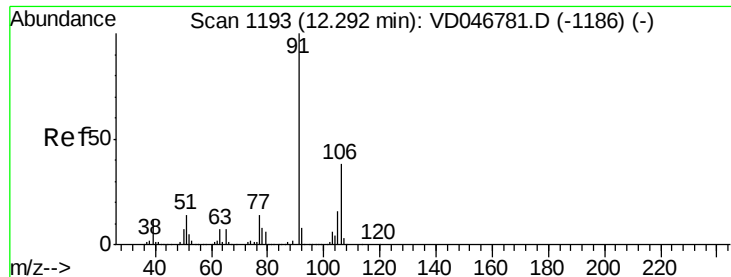
106 100

91 268.9 187.9 281.9



Abundance Ion 106.05 (105.75 to 106.75): VDC

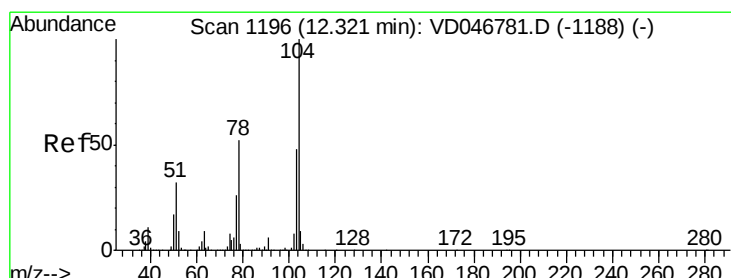
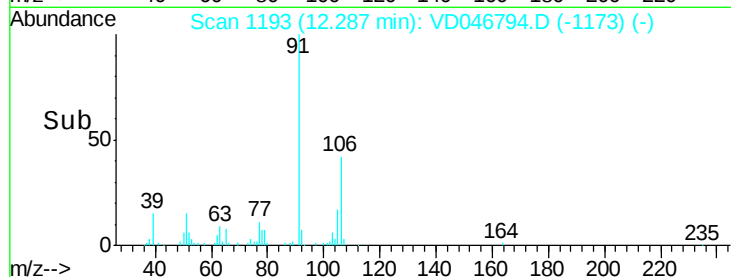
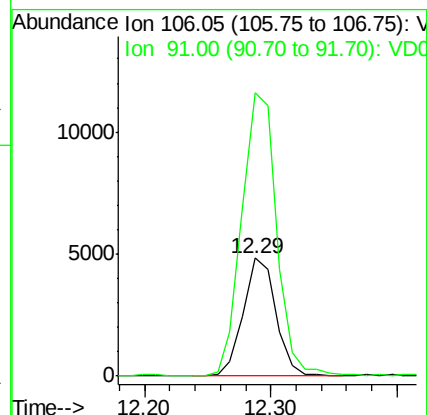
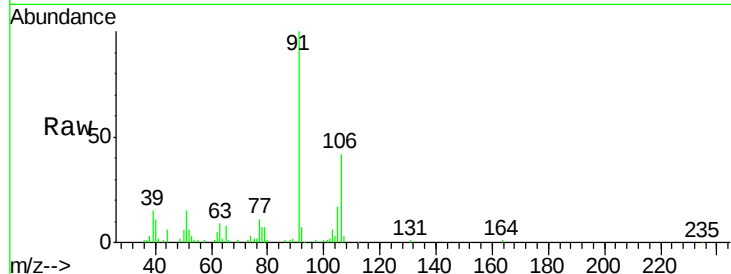




#69
o-Xylene
Concen: 3.30 ug/l
RT: 12.29 min Scan# 1193
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

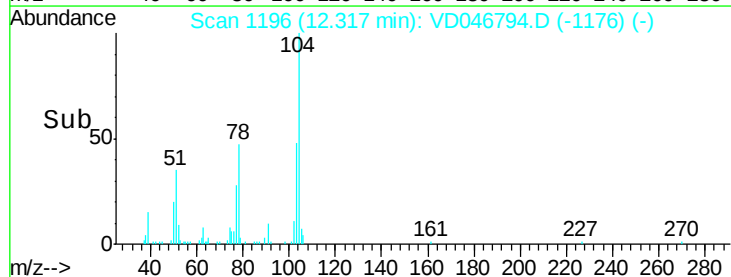
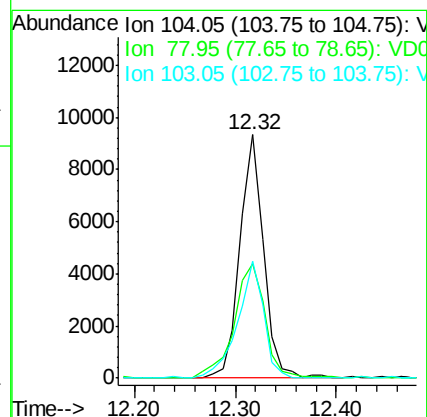
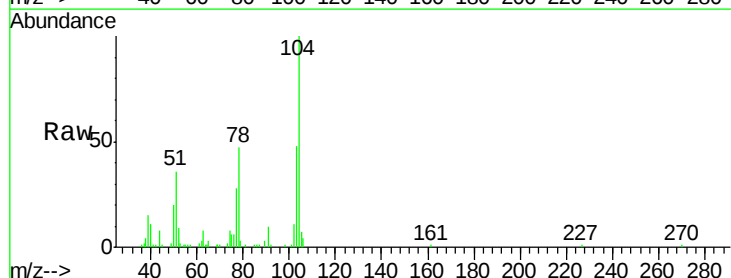
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

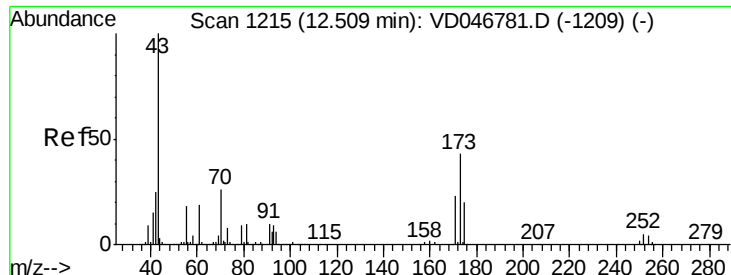
Tgt Ion:106 Resp: 8719
Ion Ratio Lower Upper
106 100
91 240.3 124.8 374.5



#70
Styrene
Concen: 3.32 ug/l
RT: 12.32 min Scan# 1196
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion:104 Resp: 15188
Ion Ratio Lower Upper
104 100
78 47.1 44.5 66.7
103 48.0 40.3 60.5

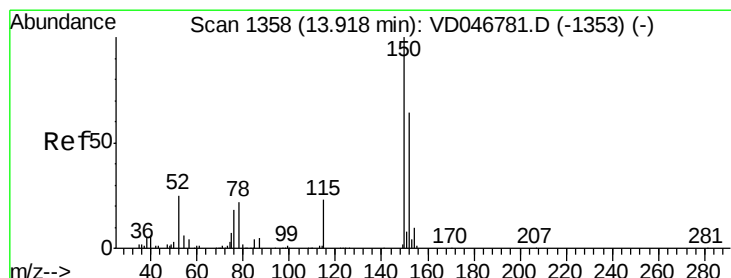
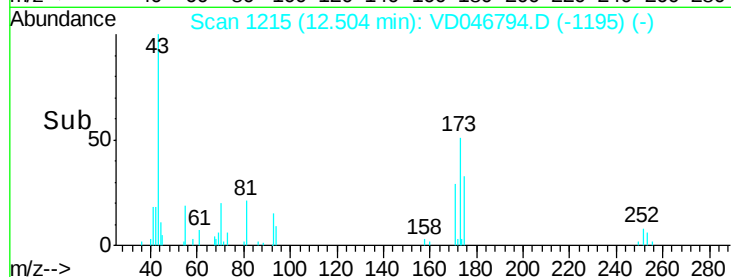
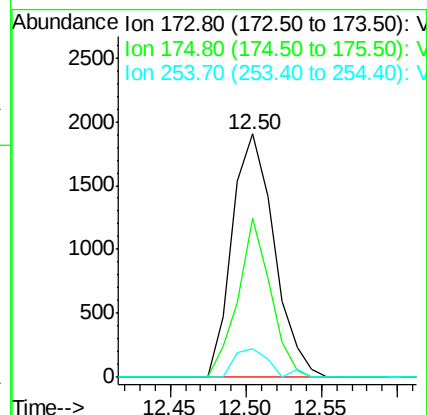
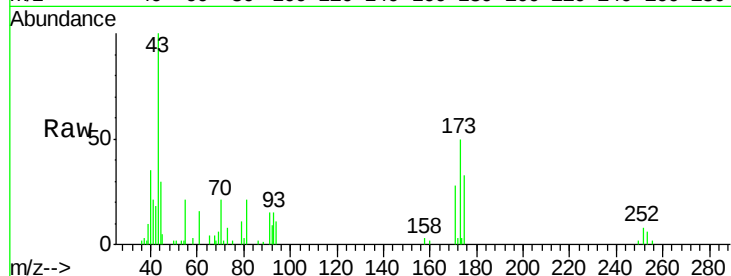




#71
Bromoform
Concen: 4.07 ug/l
RT: 12.50 min Scan# 1215
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

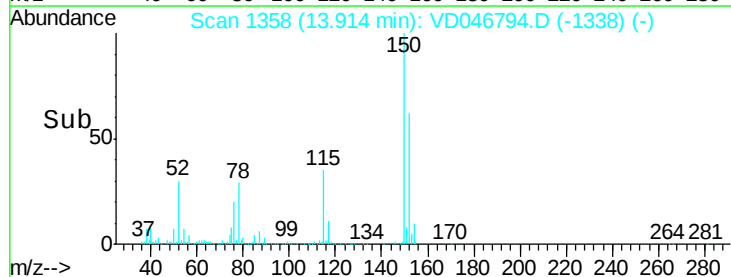
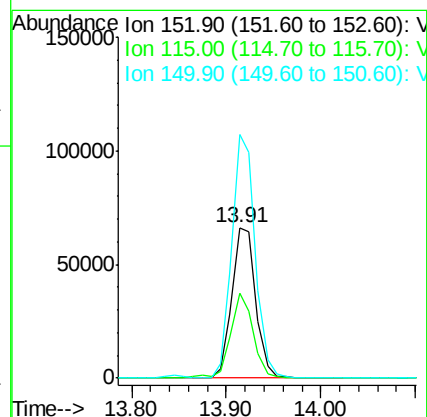
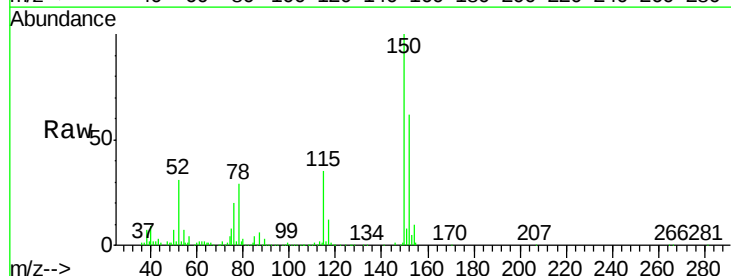
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

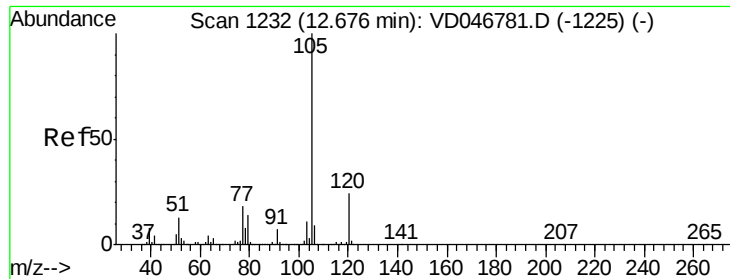
Tgt Ion:173 Resp: 3683
Ion Ratio Lower Upper
173 100
175 65.5 23.1 69.3
254 11.5 8.7 13.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.91 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion:152 Resp: 115734
Ion Ratio Lower Upper
152 100
115 56.2 26.2 78.6
150 161.5 0.0 311.8





#73

Isopropylbenzene

Concen: 3.31 ug/l

RT: 12.67 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

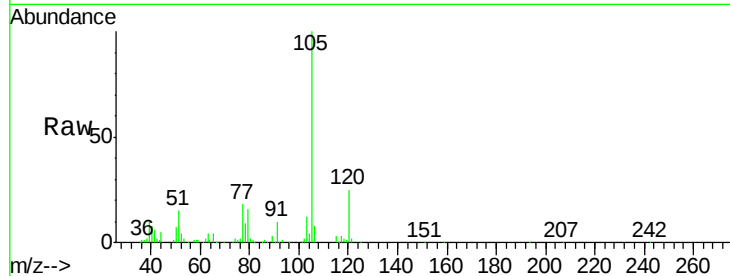
LOD-SOIL2015-01

Tgt Ion:105 Resp: 26979

Ion Ratio Lower Upper

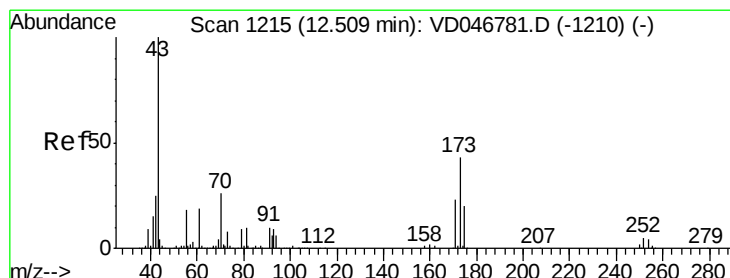
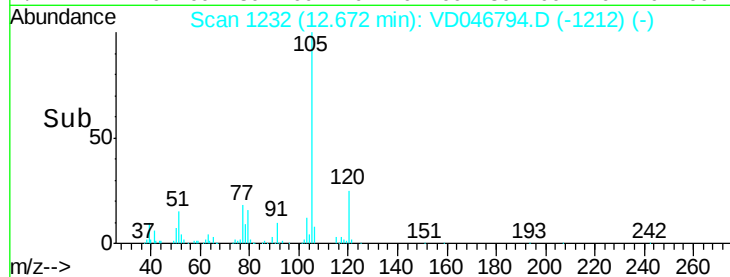
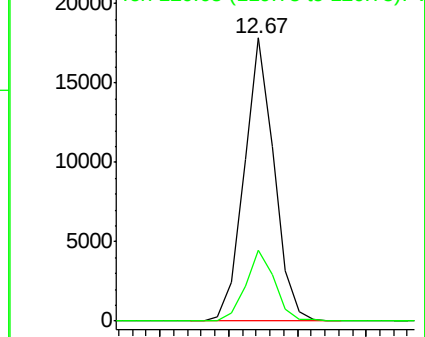
105 100

120 25.0 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: 7.21 ug/l

RT: 12.50 min Scan# 1215

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Tgt Ion: 43 Resp: 5650

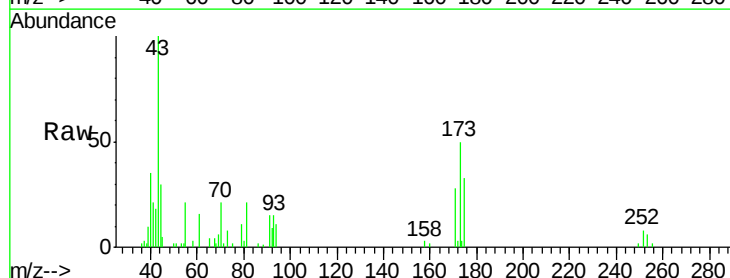
Ion Ratio Lower Upper

43 100

70 20.8 22.1 33.1#

55 20.6 14.5 21.7

61 15.6 14.6 21.8

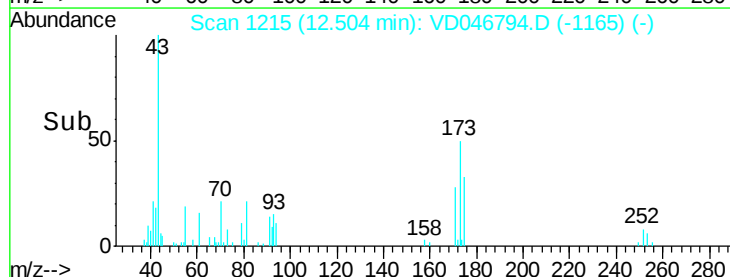
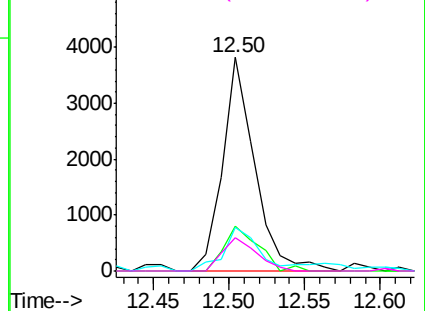


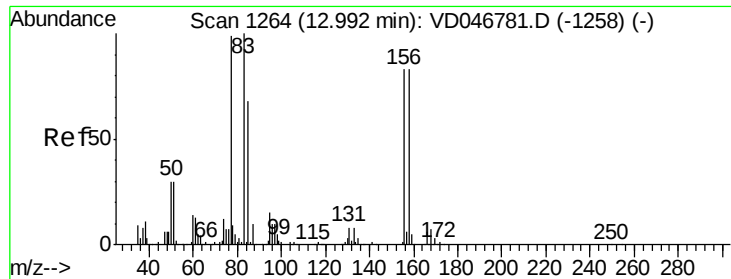
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 4.51 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

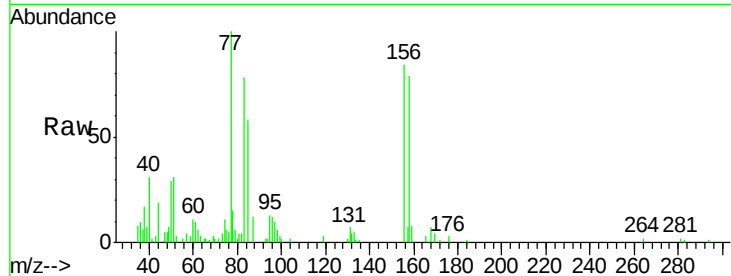
Tgt Ion: 83 Resp: 5942

Ion Ratio Lower Upper

83 100

131 9.0 3.9 11.7

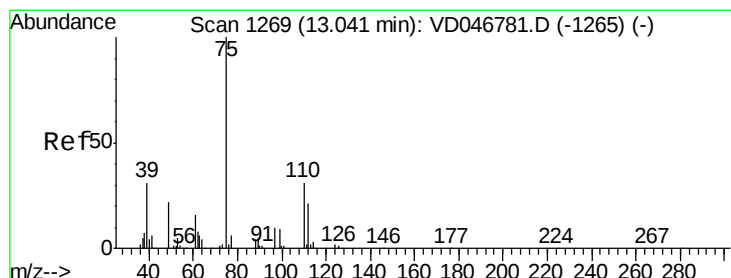
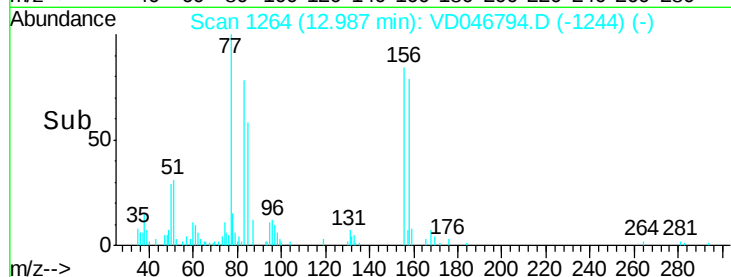
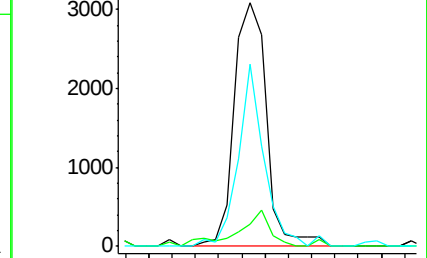
85 74.7 30.5 91.5



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: 4.23 ug/l

RT: 13.04 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VD046794.D

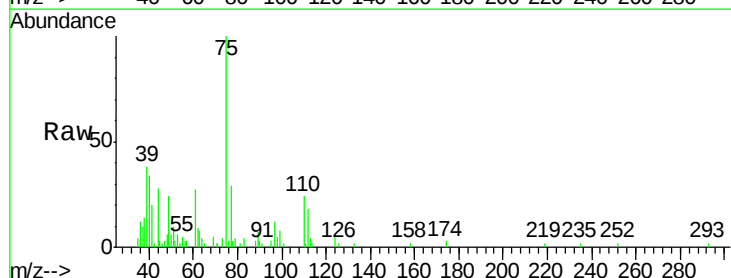
Acq: 18 Sep 2015 21:07

Tgt Ion: 75 Resp: 5954

Ion Ratio Lower Upper

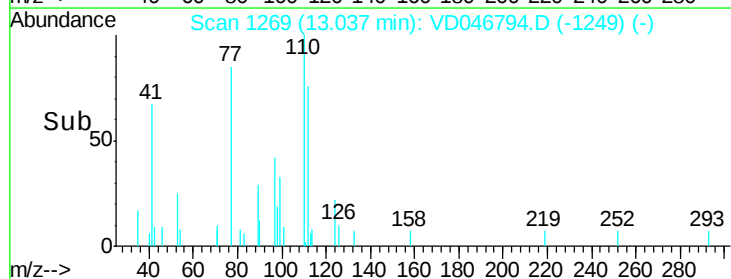
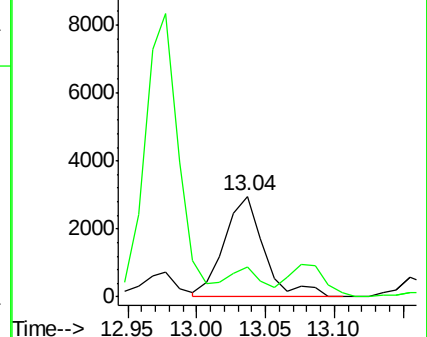
75 100

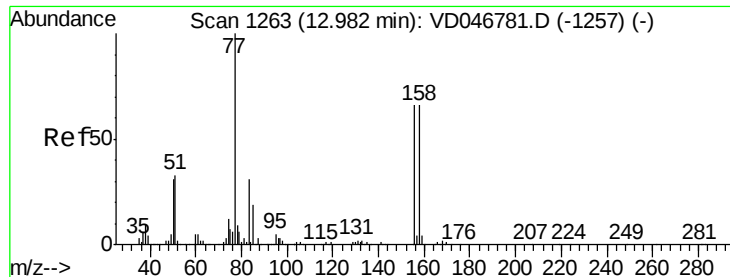
77 29.3 16.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 4.08 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

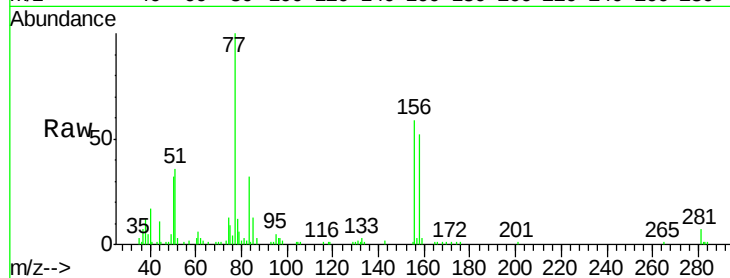
Tgt Ion: 156 Resp: 8362

Ion Ratio Lower Upper

156 100

77 168.9 70.3 210.8

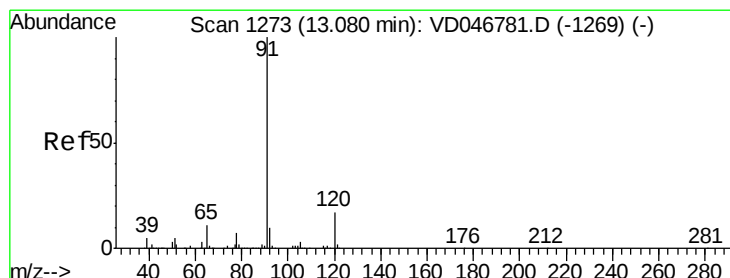
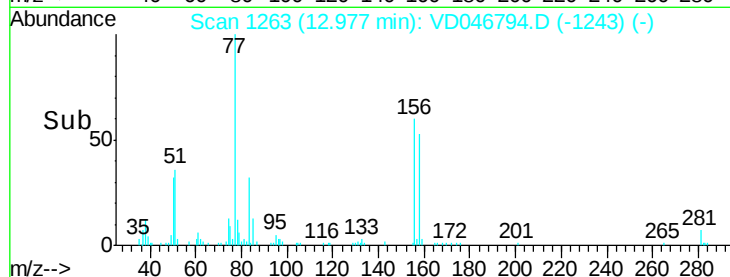
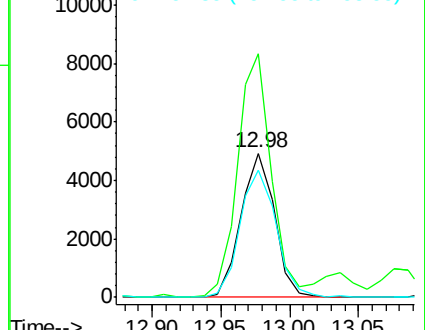
158 88.4 49.0 147.0



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: 3.65 ug/l

RT: 13.08 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VD046794.D

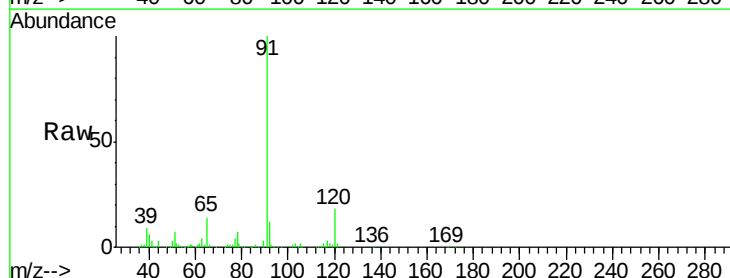
Acq: 18 Sep 2015 21:07

Tgt Ion: 91 Resp: 42028

Ion Ratio Lower Upper

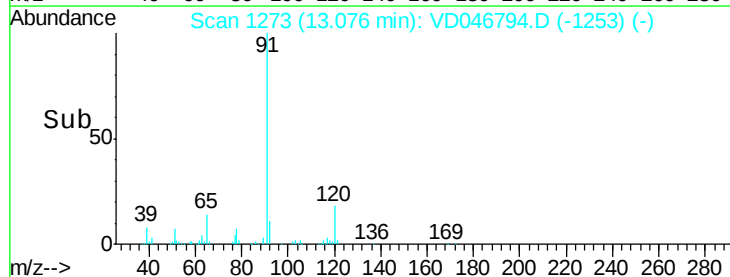
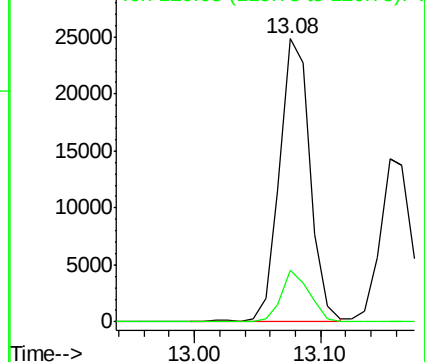
91 100

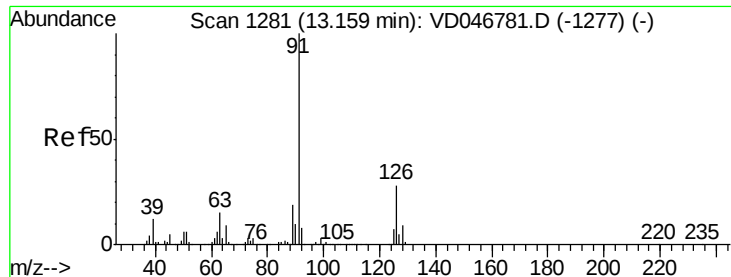
120 18.3 9.3 27.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 3.84 ug/l

RT: 13.15 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

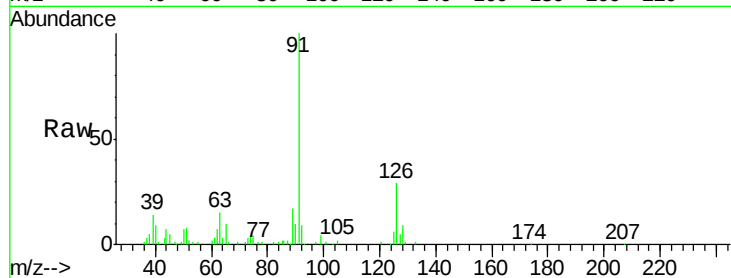
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 24559

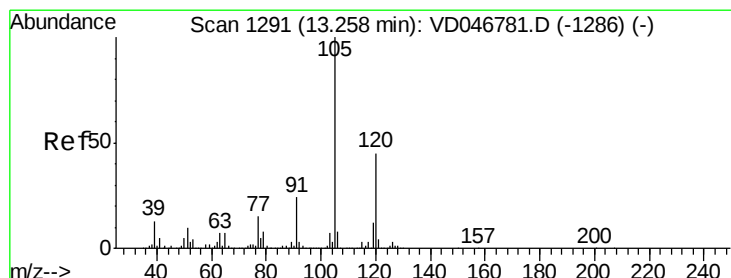
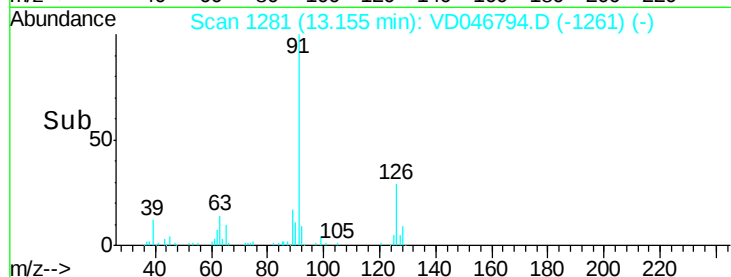
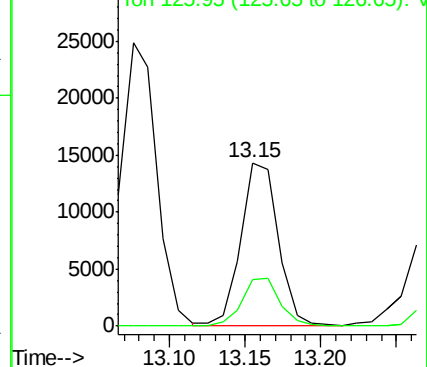
Ion Ratio Lower Upper

91 100

126 28.7 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 3.37 ug/l

RT: 13.25 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VD046794.D

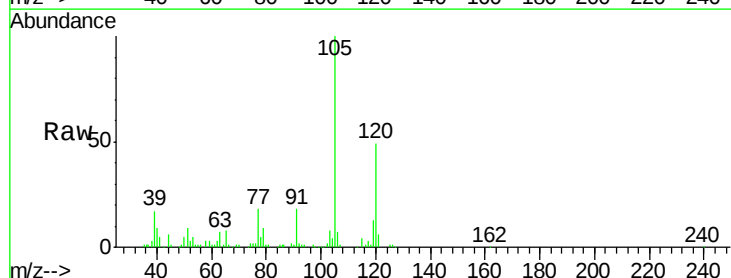
Acq: 18 Sep 2015 21:07

Tgt Ion: 105 Resp: 21894

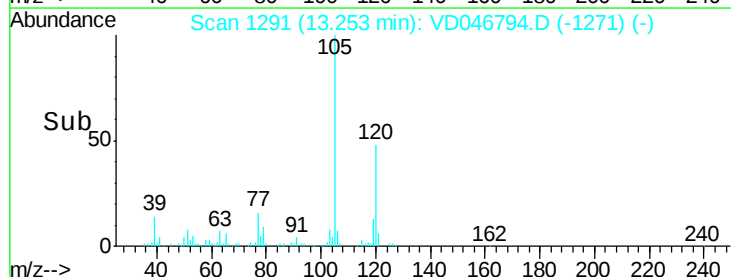
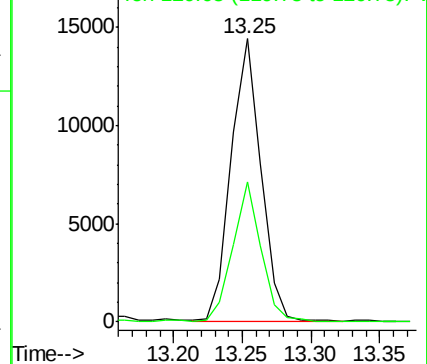
Ion Ratio Lower Upper

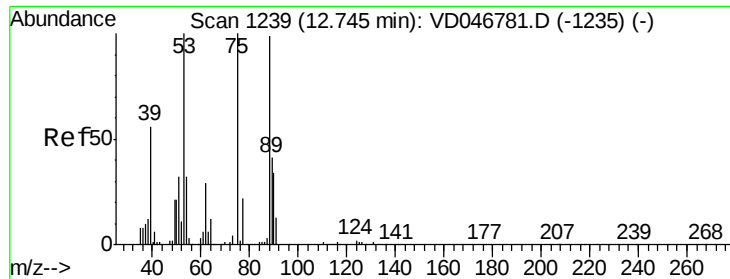
105 100

120 49.4 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): V

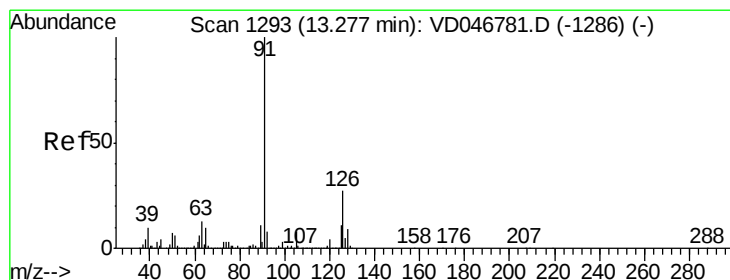
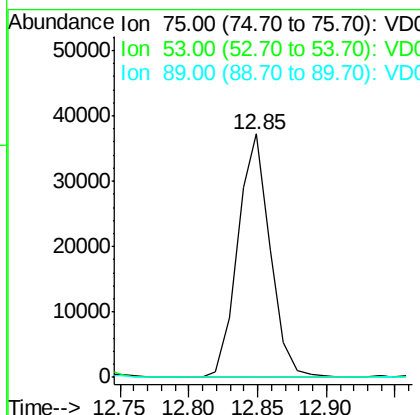
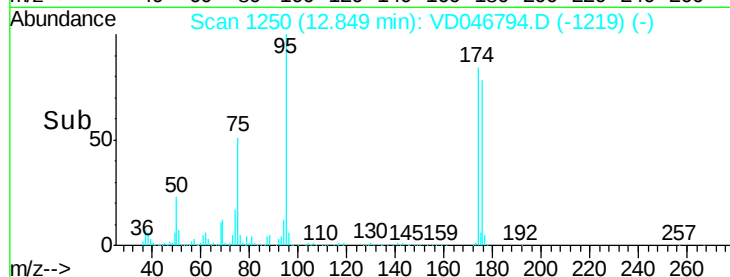
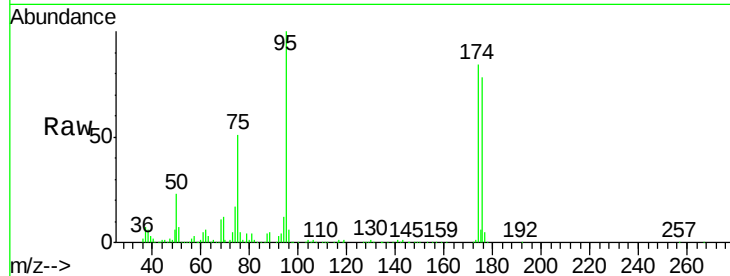




#81
trans-1,4-Dichloro-2-butene
Concen: 148.77 ug/l
RT: 12.85 min Scan# 1250
Delta R.T. 0.10 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

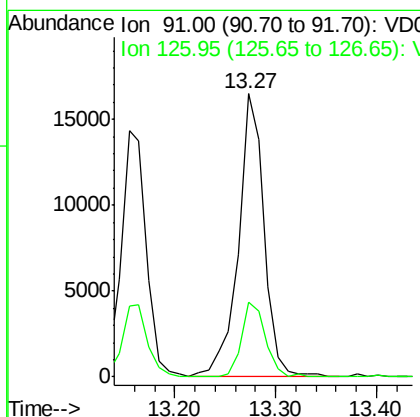
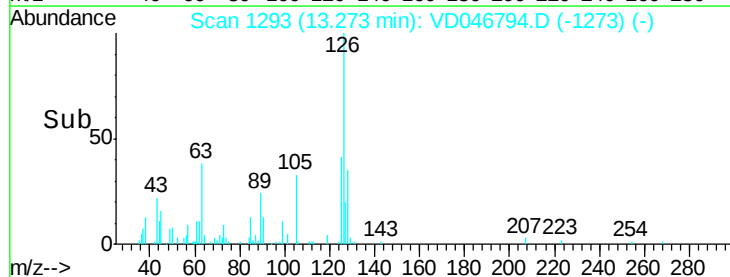
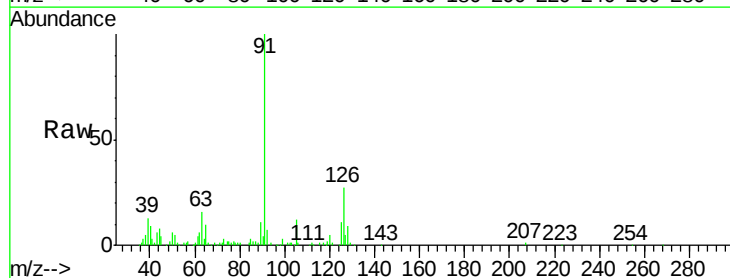
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

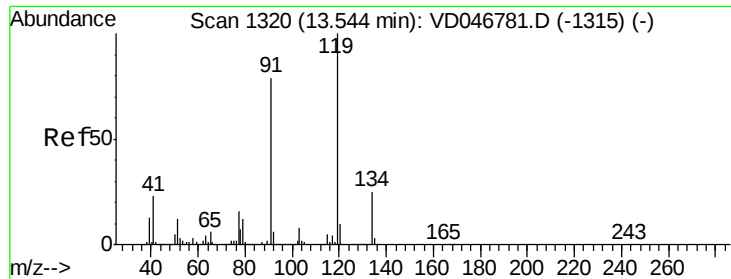
Tgt Ion: 75 Resp: 60787
Ion Ratio Lower Upper
75 100
53 0.2 82.3 123.5#
89 0.0 36.6 54.8#



#82
4-Chlorotoluene
Concen: 3.77 ug/l
RT: 13.27 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion: 91 Resp: 28716
Ion Ratio Lower Upper
91 100
126 26.5 14.1 42.4

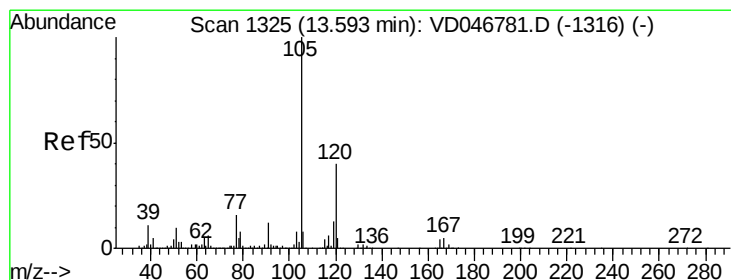
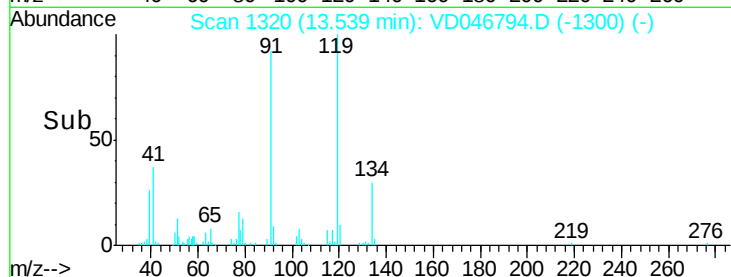
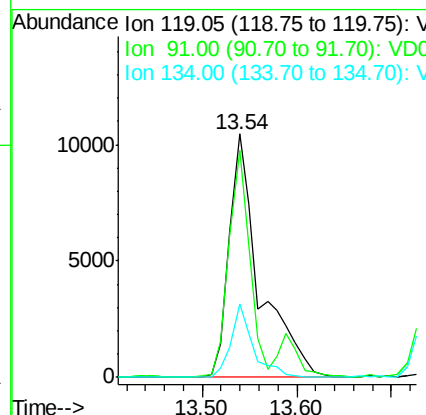
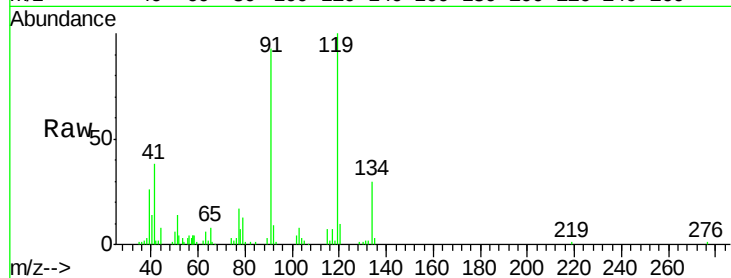




#83
 tert-Butylbenzene
 Concen: 4.00 ug/l
 RT: 13.54 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

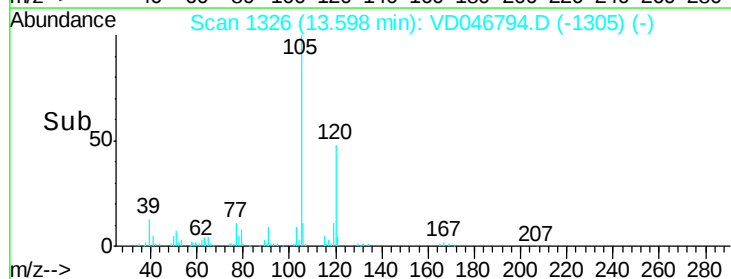
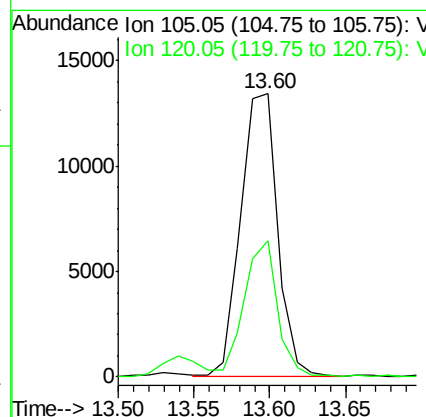
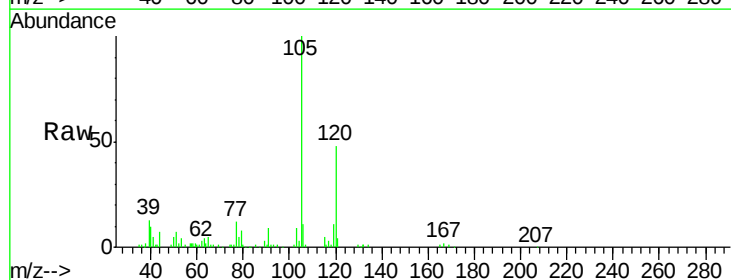
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

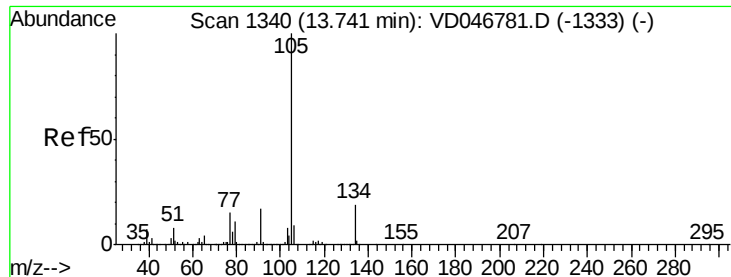
Tgt Ion:119 Resp: 23466
 Ion Ratio Lower Upper
 119 100
 91 93.4 41.6 124.9
 134 30.4 12.4 37.4



#84
 1,2,4-Trimethylbenzene
 Concen: 3.50 ug/l
 RT: 13.60 min Scan# 1326
 Delta R.T. 0.01 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion:105 Resp: 22937
 Ion Ratio Lower Upper
 105 100
 120 48.1 21.1 63.1

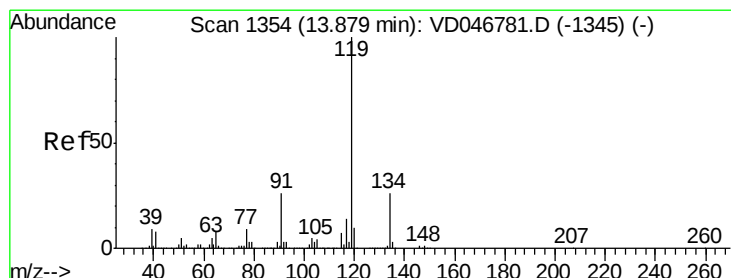
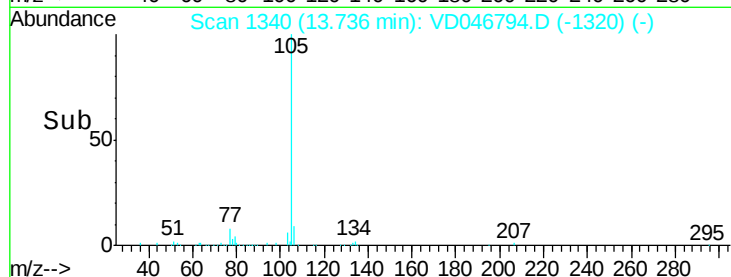
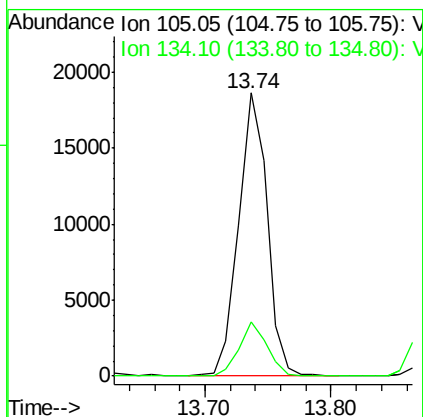
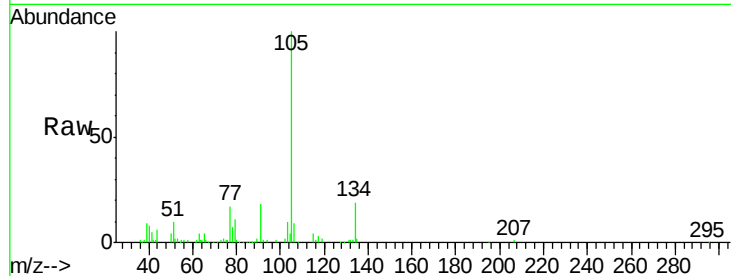




#85
 sec-Butylbenzene
 Concen: 3.38 ug/l
 RT: 13.74 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

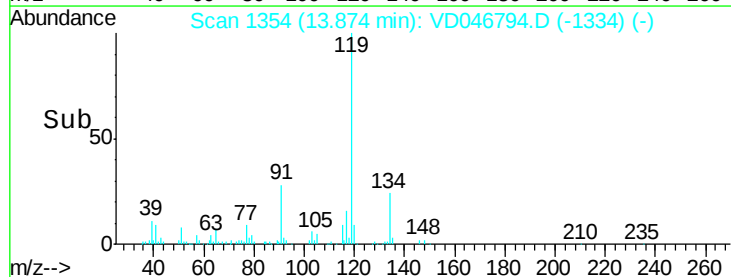
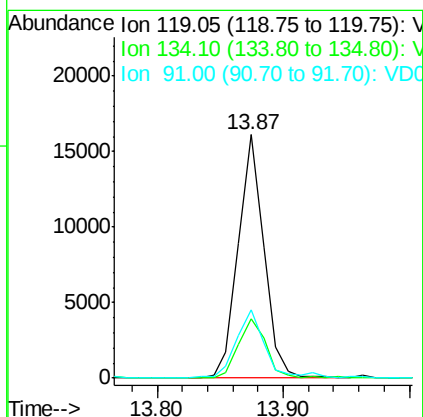
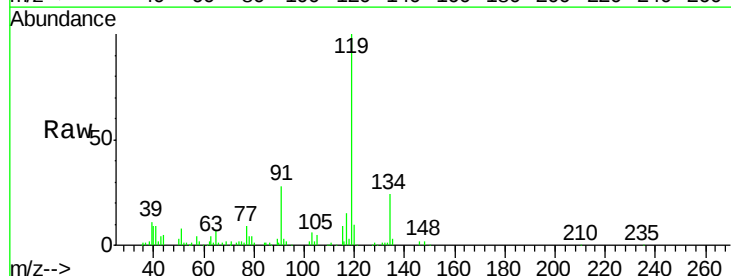
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

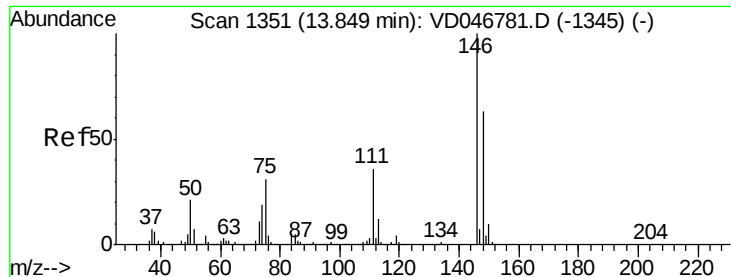
Tgt Ion:105 Resp: 29164
 Ion Ratio Lower Upper
 105 100
 134 19.2 10.1 30.3



#86
 p-Isopropyltoluene
 Concen: 3.36 ug/l
 RT: 13.87 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion:119 Resp: 22737
 Ion Ratio Lower Upper
 119 100
 134 24.3 13.0 38.9
 91 28.2 13.8 41.3





#87

1,3-Dichlorobenzene

Concen: 3.93 ug/l

RT: 13.84 min Scan# 1351

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

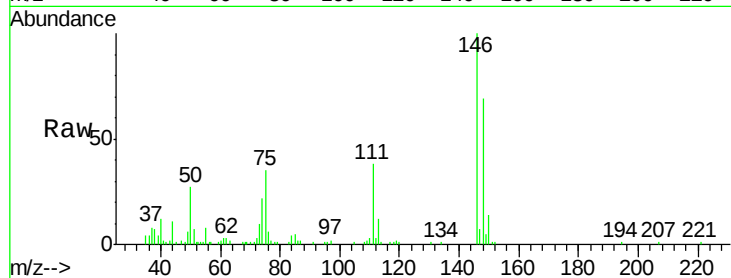
Tgt Ion:146 Resp: 15049

Ion Ratio Lower Upper

146 100

111 38.1 17.4 52.2

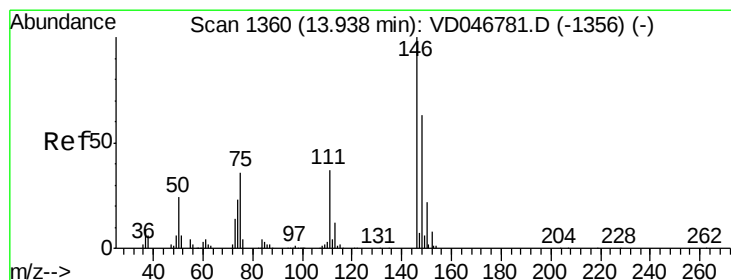
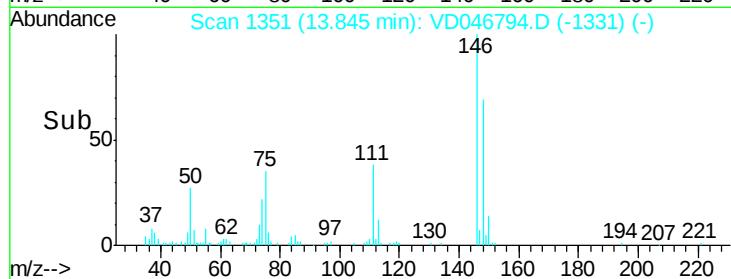
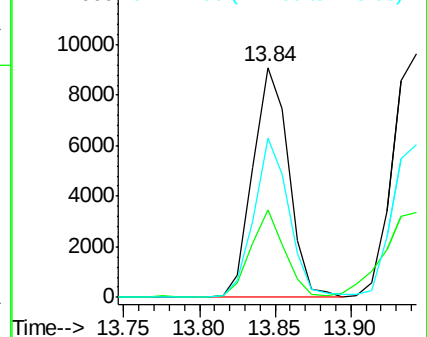
148 69.0 33.0 99.0



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



#88

1,4-Dichlorobenzene

Concen: 4.27 ug/l

RT: 13.94 min Scan# 1361

Delta R.T. 0.01 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

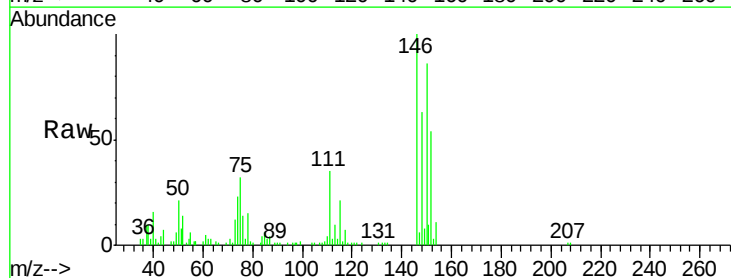
Tgt Ion:146 Resp: 16250

Ion Ratio Lower Upper

146 100

111 35.0 17.0 51.0

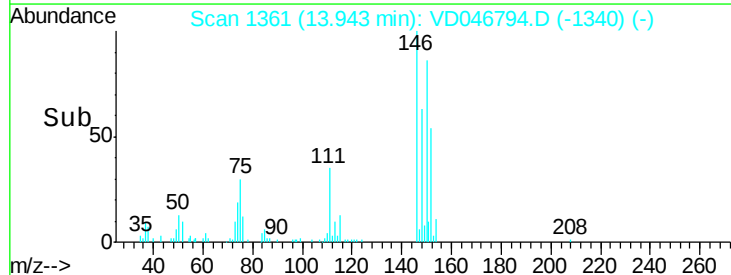
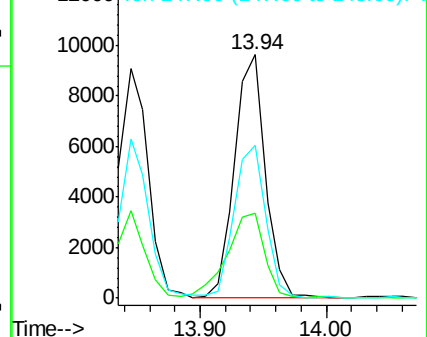
148 62.7 31.9 95.7

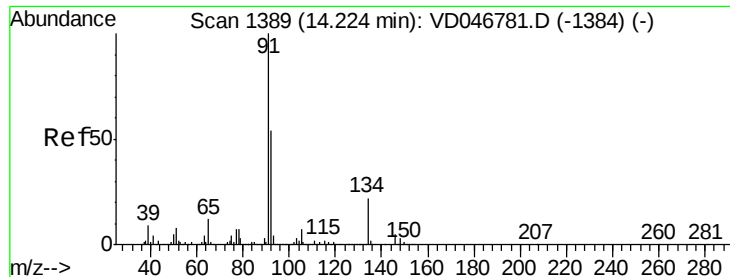


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 3.31 ug/l

RT: 14.22 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VD046794.D

Acq: 18 Sep 2015 21:07

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

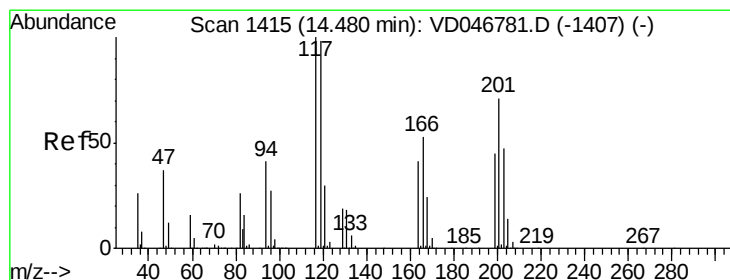
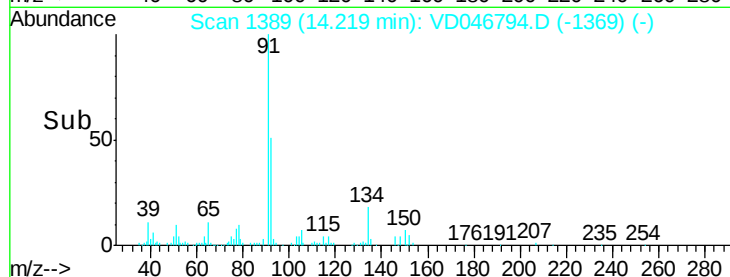
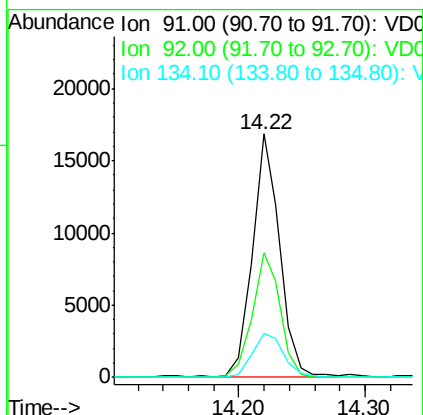
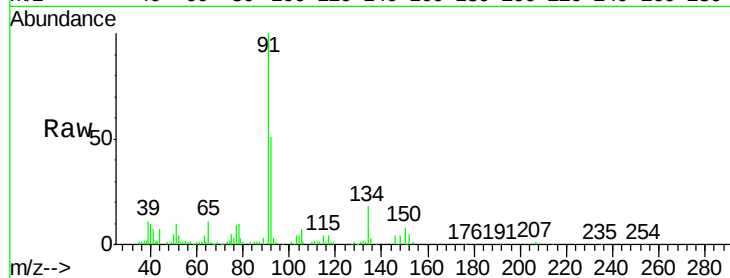
Tgt Ion: 91 Resp: 25271

Ion Ratio Lower Upper

91 100

92 51.0 27.1 81.2

134 18.2 9.6 28.6



#90

Hexachloroethane

Concen: 4.36 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. 0.01 min

Lab File: VD046794.D

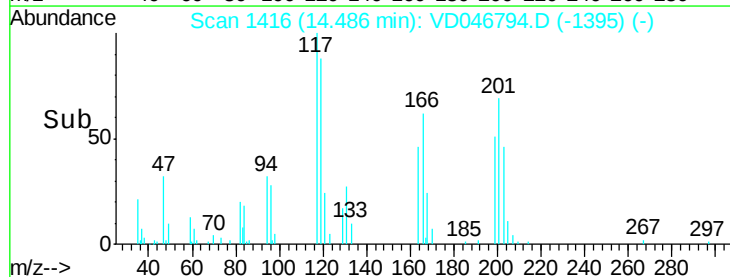
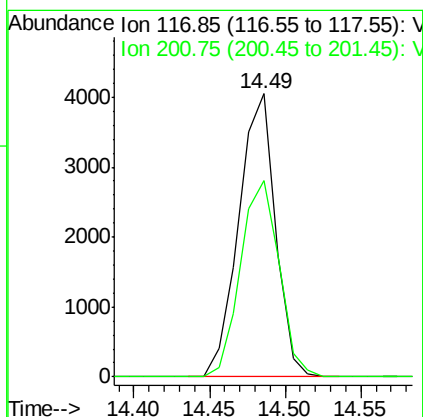
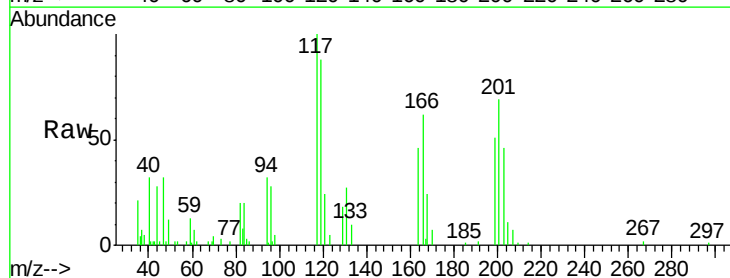
Acq: 18 Sep 2015 21:07

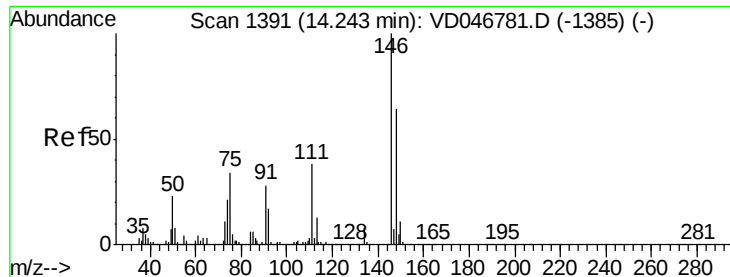
Tgt Ion: 117 Resp: 6839

Ion Ratio Lower Upper

117 100

201 69.4 41.0 123.0

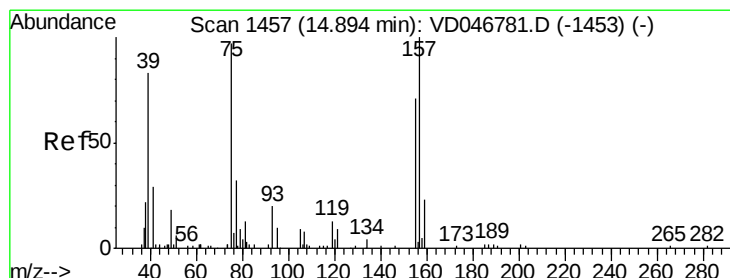
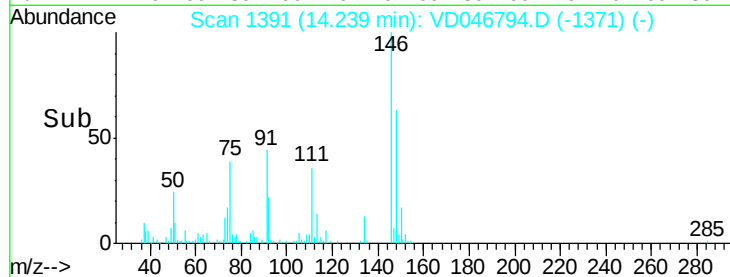
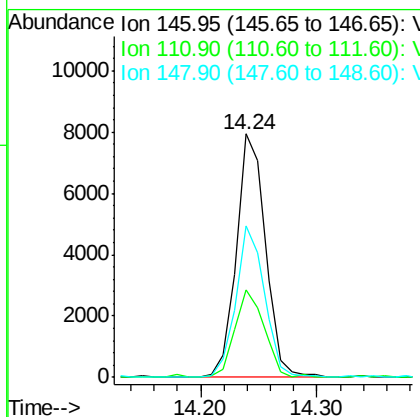
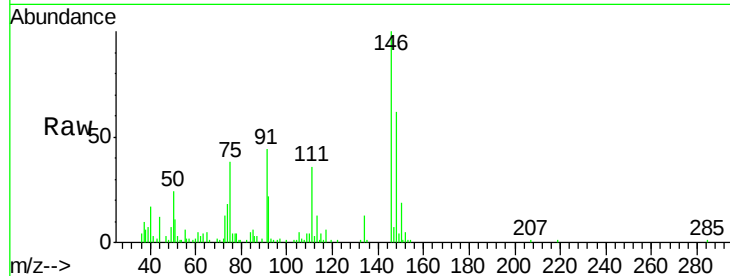




#91
 1,2-Dichlorobenzene
 Concen: 4.28 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

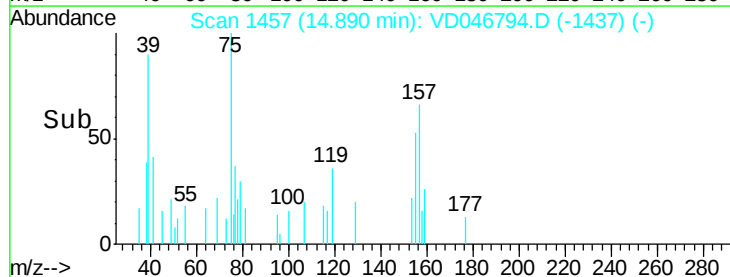
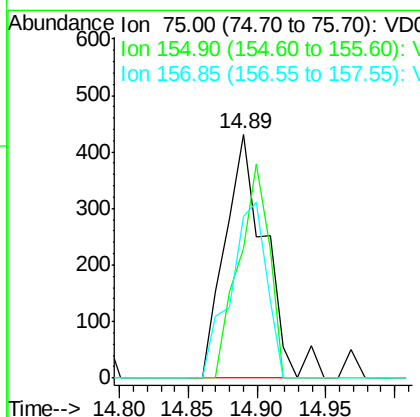
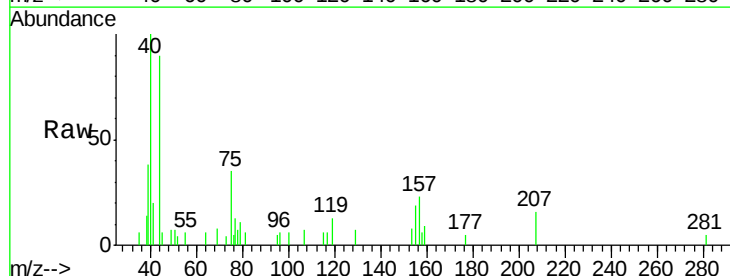
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

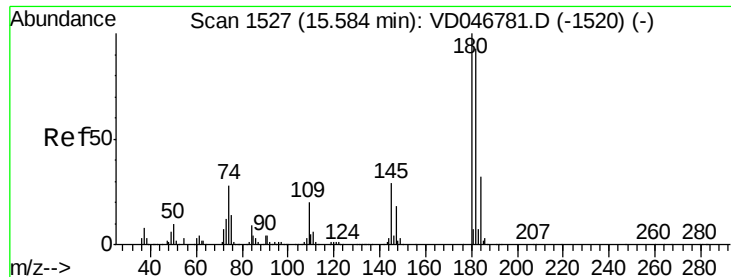
Tgt Ion: 146 Resp: 13772
 Ion Ratio Lower Upper
 146 100
 111 35.7 18.2 54.6
 148 62.3 31.1 93.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.17 ug/l
 RT: 14.89 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion: 75 Resp: 874
 Ion Ratio Lower Upper
 75 100
 155 53.4 41.4 124.4
 157 66.1 65.0 195.1

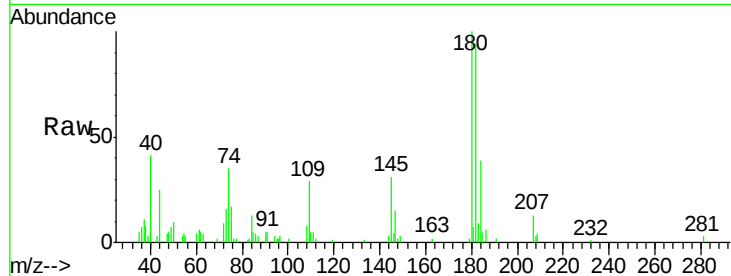




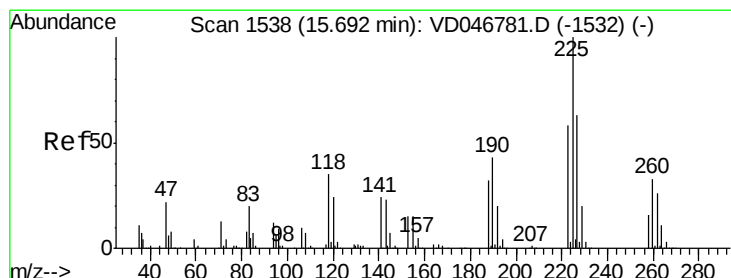
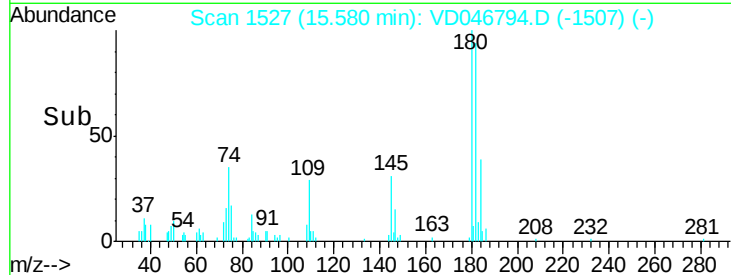
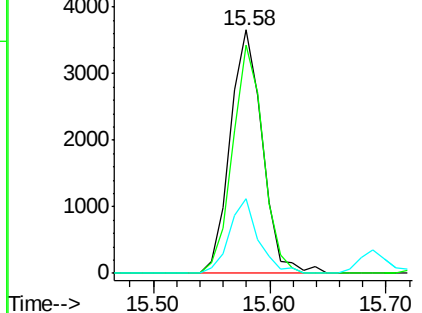
#93
 1,2,4-Trichlorobenzene
 Concen: 3.77 ug/l
 RT: 15.58 min Scan# 1527
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion:180 Resp: 6978
 Ion Ratio Lower Upper
 180 100
 182 94.0 47.5 142.5
 145 30.6 14.6 44.0

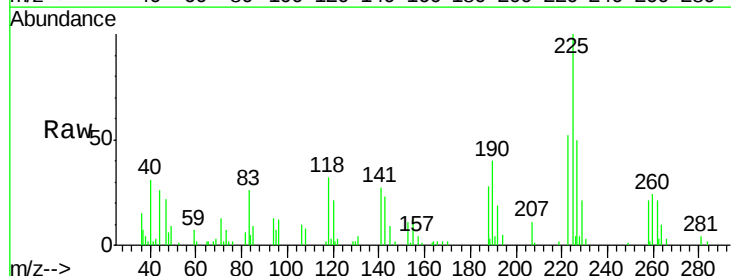


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

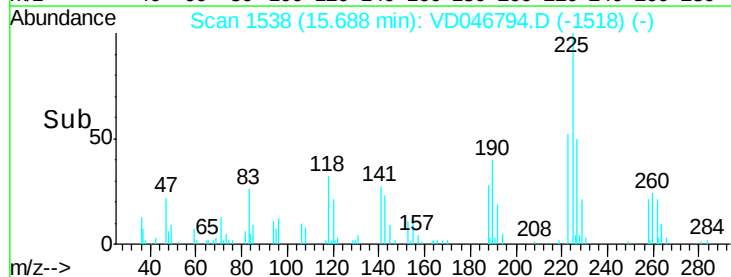
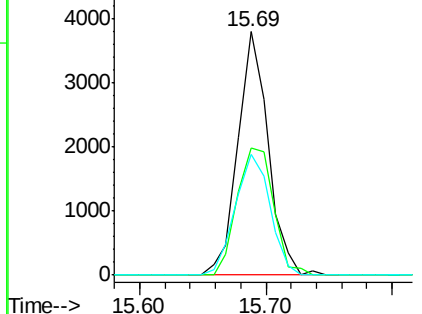


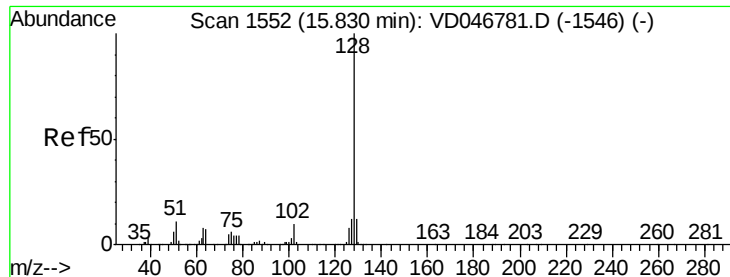
#94
 Hexachlorobutadiene
 Concen: 4.14 ug/l
 RT: 15.69 min Scan# 1538
 Delta R.T. -0.00 min
 Lab File: VD046794.D
 Acq: 18 Sep 2015 21:07

Tgt Ion:225 Resp: 6314
 Ion Ratio Lower Upper
 225 100
 223 52.1 30.4 91.2
 227 49.7 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

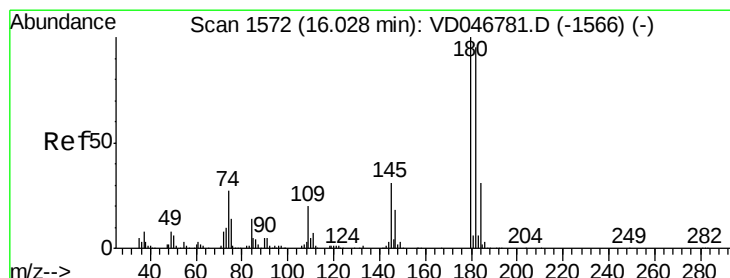
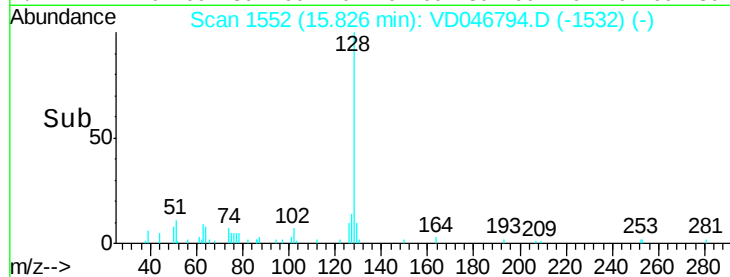
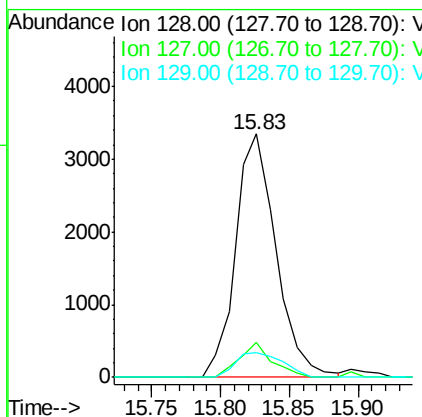
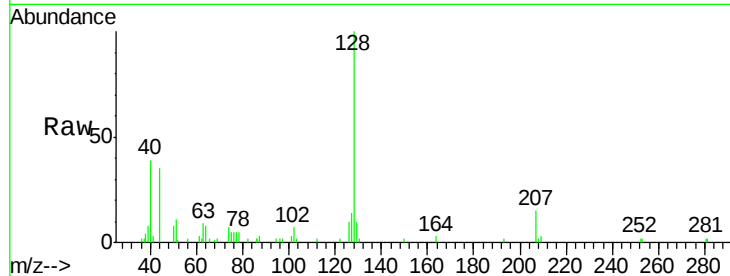




#95
Naphthalene
Concen: 5.05 ug/l
RT: 15.83 min Scan# 1552
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion:128 Resp: 6863
Ion Ratio Lower Upper
128 100
127 14.2 9.8 14.6
129 10.3 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 3.89 ug/l
RT: 16.02 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VD046794.D
Acq: 18 Sep 2015 21:07

Tgt Ion:180 Resp: 6015
Ion Ratio Lower Upper
180 100
182 104.2 47.4 142.3
145 40.1 15.4 46.4

