

Data Path : W:\HPCHEM1\MSVOA_F\DATA\VF091615\
 Data File : VF045402.D
 Acq On : 16 Sep 2015 21:32
 Operator : FY/SY
 Sample : G3707-04LOQ 10ppb
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Quant Time: Sep 17 07:19:26 2015
 Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 16:04:03 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.82	168	1071992	50.00	ug/l	0.01
33) 1,4-Difluorobenzene	5.54	114	1539115	50.00	ug/l	0.00
62) Chlorobenzene-d5	9.70	117	1476390	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	12.49	152	839518	50.00	ug/l	0.00

System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.78	65	602069	52.30	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.60%	
34) Dibromofluoromethane	4.04	113	671484	56.32	ug/l	0.01
Spiked Amount	50.000		Recovery	=	112.64%	
49) Toluene-d8	7.50	98	1888338	53.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.52%	
61) 4-Bromofluorobenzene	11.35	95	901212	53.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.76%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	0.94	85	101427	11.11	ug/l	98
3) Chloromethane	1.03	50	79121	10.12	ug/l	96
4) Vinyl Chloride	1.08	62	63895	9.54	ug/l	97
5) Bromomethane	1.25	94	36231	8.71	ug/l	88
6) Chloroethane	1.33	64	29337	10.99	ug/l	93
7) Trichlorofluoromethane	1.39	101	58031	4.22	ug/l	98
8) Diethyl Ether	1.60	74	26742	9.31	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	1.78	101	82399	10.42	ug/l #	85
10) Methyl Iodide	1.80	142	160277	9.91	ug/l #	97
11) Tert butyl alcohol	2.52	59	5928	45.83	ug/l #	81
12) 1,1-Dichloroethene	1.72	96	62366	9.49	ug/l #	91
13) Acrolein	1.95	56	26475	49.39	ug/l	87
14) Allyl chloride	2.05	41	97731	9.58	ug/l	96
15) Acrylonitrile	2.89	53	58844	47.60	ug/l #	92
16) Acetone	2.19	43	122507	46.88	ug/l	100
17) Carbon Disulfide	1.73	76	200020	8.93	ug/l	97
18) Methyl Acetate	2.30	43	104628	10.44	ug/l	92
19) Methyl tert-butyl Ether	2.39	73	56159	10.86	ug/l #	80
20) Methylene Chloride	2.14	84	76793	6.57	ug/l	93
21) trans-1,2-Dichloroethene	2.27	96	73347	9.96	ug/l	84
22) Diisopropyl ether	2.75	45	211560	9.73	ug/l	96
23) Vinyl Acetate	3.13	43	305027	48.08	ug/l	97
24) 1,1-Dichloroethane	2.82	63	144280	9.81	ug/l	97
25) 2-Butanone	4.27	43	173358	47.42	ug/l	94
26) 2,2-Dichloropropane	3.54	77	134921	9.85	ug/l	99
27) cis-1,2-Dichloroethene	3.42	96	111035	9.76	ug/l	88
28) Bromochloromethane	3.65	49	61991	10.73	ug/l #	97
29) Chloroform	3.79	83	215125	10.40	ug/l	97
30) Cyclohexane	3.64	56	139334	10.50	ug/l	94
31) 1,1,1-Trichloroethane	4.04	97	167820	9.80	ug/l	94
35) 1,1-Dichloropropene	4.22	75	158095	10.83	ug/l	97
36) Ethyl Acetate	4.05	43	81962	11.09	ug/l #	61
37) Carbon Tetrachloride	3.93	117	151821	9.87	ug/l #	92
38) Methylcyclohexane	5.40	83	166511	10.61	ug/l	93

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzene	4.57	78	382498	11.20	ug/l	93
40) Methacrylonitrile	4.67	41	33900	9.69	ug/l #	89
41) 1,2-Dichloroethane	4.88	62	148451	10.78	ug/l	93
42) Isopropyl Acetate	6.91	43	103546	10.64	ug/l #	97
43) Trichloroethene	5.45	130	119419	10.24	ug/l	95
44) 1,2-Dichloropropane	6.18	63	101069	10.16	ug/l	99
45) Dibromomethane	6.03	93	70266	9.93	ug/l	96
46) Bromodichloromethane	6.33	83	159064	10.04	ug/l	95
47) Methyl methacrylate	6.66	41	60076	10.17	ug/l #	78
48) 1,4-Dioxane	6.64	88	14371	203.05	ug/l #	89
50) 4-Methyl-2-Pentanone	8.21	43	382665	55.28	ug/l	96
51) Toluene	7.57	92	287659	10.94	ug/l	87
52) t-1,3-Dichloropropene	8.22	75	144606	10.15	ug/l	92
53) cis-1,3-Dichloropropene	7.24	75	168690	10.03	ug/l #	87
54) 1,1,2-Trichloroethane	8.42	97	89298	10.04	ug/l	93
55) Ethyl methacrylate	8.57	69	116435	10.06	ug/l	93
56) 1,3-Dichloropropane	8.79	76	160244	11.04	ug/l	100
58) 2-Hexanone	9.43	43	290731	52.77	ug/l	94
59) Dibromochloromethane	8.65	129	121151	9.61	ug/l	95
60) 1,2-Dibromoethane	8.92	107	109276	10.82	ug/l	91
63) Tetrachloroethene	8.10	164	134261	11.45	ug/l	89
64) Chlorobenzene	9.73	112	348441	11.25	ug/l	97
65) 1,1,1,2-Tetrachloroethane	9.86	131	120738	10.66	ug/l	90
66) Ethyl Benzene	9.83	91	618580	11.53	ug/l	99
67) m/p-Xylenes	10.07	106	447566	23.27	ug/l	96
68) o-Xylene	10.65	106	230644	11.55	ug/l	97
69) Styrene	10.73	104	355906	11.17	ug/l	97
70) Bromoform	10.71	173	83353	9.92	ug/l	99
72) Isopropylbenzene	11.07	105	636953	11.32	ug/l	97
73) N-amyl acetate	11.32	43	158715	10.18	ug/l #	94
74) 1,1,2,2-Tetrachloroethane	11.63	83	132590	10.40	ug/l	93
75) 1,2,3-Trichloropropane	11.73	75	96341	10.99	ug/l	93
76) Bromobenzene	11.44	156	173116	10.85	ug/l	97
77) n-propylbenzene	11.55	91	798143	11.43	ug/l	99
78) 2-Chlorotoluene	11.66	91	434264	11.12	ug/l	99
79) 1,3,5-Trimethylbenzene	11.77	105	517325	11.29	ug/l	99
80) trans-1,4-Dichloro-2-buten	11.81	75	55176	11.75	ug/l	94
81) 4-Chlorotoluene	11.84	91	476613	11.04	ug/l	96
82) tert-Butylbenzene	12.08	119	484290	10.68	ug/l	98
83) 1,2,4-Trimethylbenzene	12.16	105	522922	11.13	ug/l	100
84) sec-Butylbenzene	12.25	105	678609	10.77	ug/l	99
85) p-Isopropyltoluene	12.40	119	529555	10.79	ug/l	100
86) 1,3-Dichlorobenzene	12.41	146	292844	10.80	ug/l	96
87) 1,4-Dichlorobenzene	12.50	146	294767	10.89	ug/l	91
88) n-Butylbenzene	12.79	91	550772	11.17	ug/l	96
89) Hexachloroethane	12.86	117	115916	9.98	ug/l	83
90) 1,2-Dichlorobenzene	12.89	146	275043	11.03	ug/l	96
91) 1,2-Dibromo-3-Chloropropan	13.57	75	16465	9.73	ug/l	87
92) 1,2,4-Trichlorobenzene	14.14	180	155023	10.74	ug/l	96
93) Hexachlorobutadiene	14.13	225	124847	11.39	ug/l	93

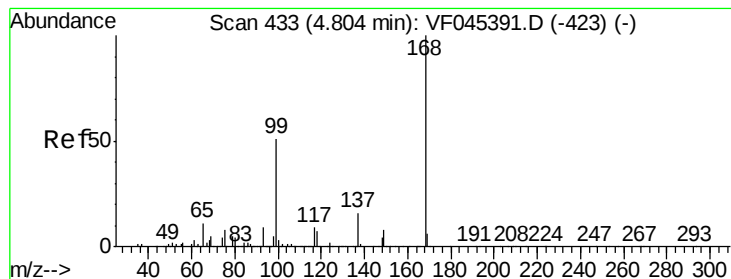
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Naphthalene	14.38	128	254707	10.71	ug/l	99
95) 1,2,3-Trichlorobenzene	14.53	180	125811	10.61	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.82 min Scan# 435

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

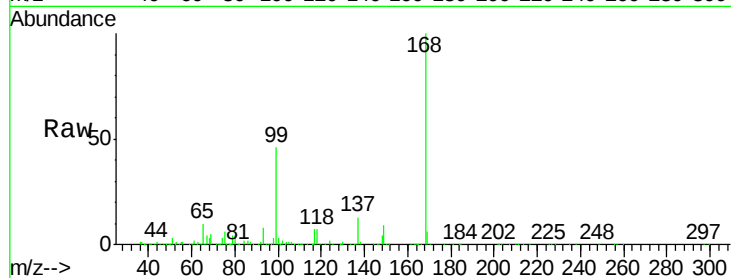
LOQ-SOIL2015-02

Tgt Ion:168 Resp: 1071992

Ion Ratio Lower Upper

168 100

99 46.1 39.0 58.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.82

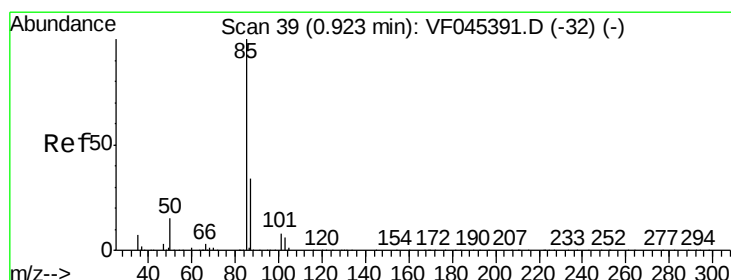
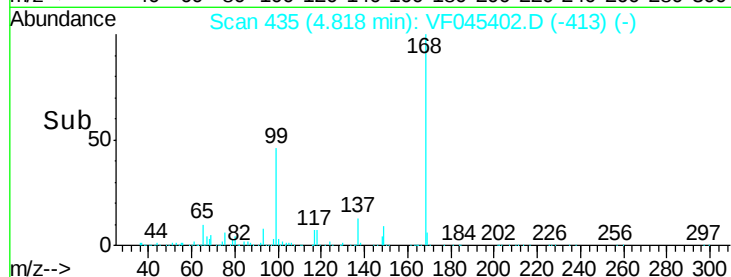
300000

200000

100000

0

Time--> 4.60 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 11.11 ug/l

RT: 0.94 min Scan# 41

Delta R.T. 0.01 min

Lab File: VF045402.D

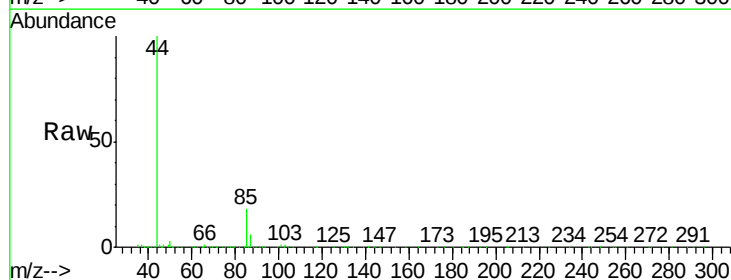
Acq: 16 Sep 2015 21:32

Tgt Ion: 85 Resp: 101427

Ion Ratio Lower Upper

85 100

87 30.2 15.6 46.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.94

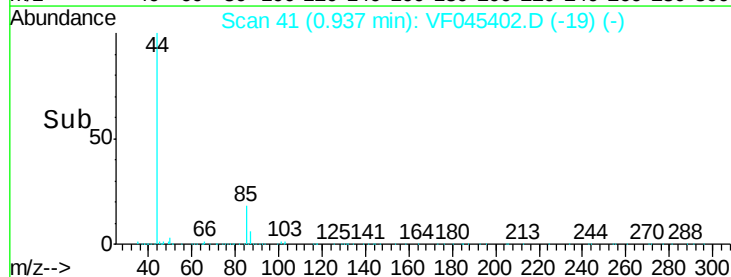
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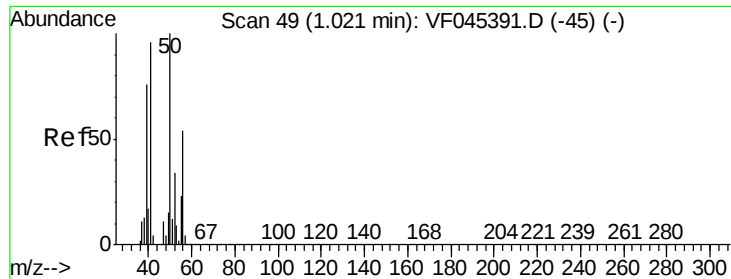
20000

10000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 10.12 ug/l

RT: 1.03 min Scan# 50

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

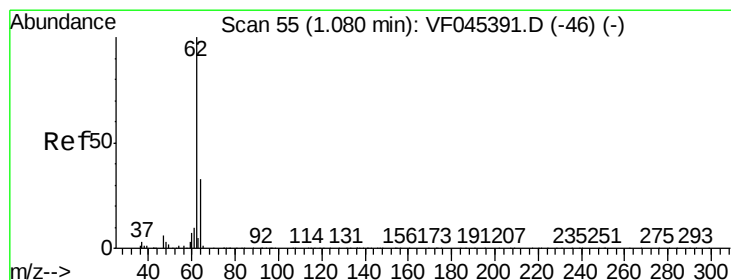
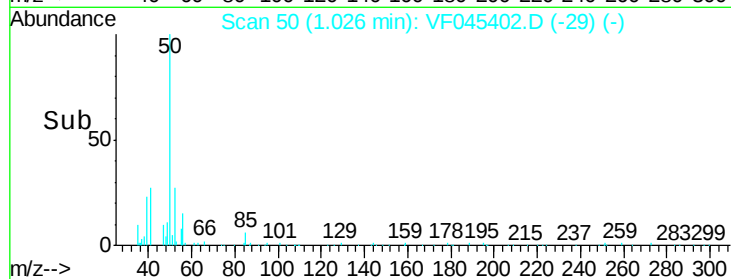
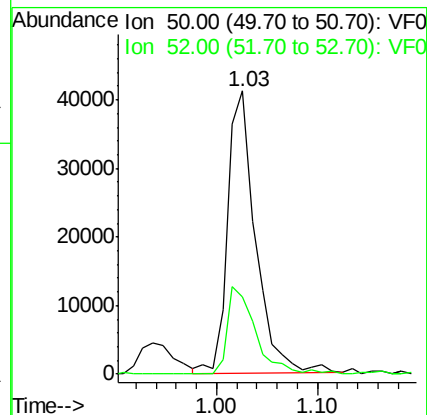
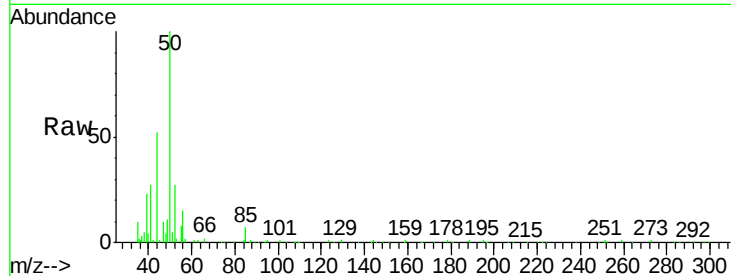
LOQ-SOIL2015-02

Tgt Ion: 50 Resp: 79121

Ion Ratio Lower Upper

50 100

52 27.5 23.8 35.8



#4

Vinyl Chloride

Concen: 9.54 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF045402.D

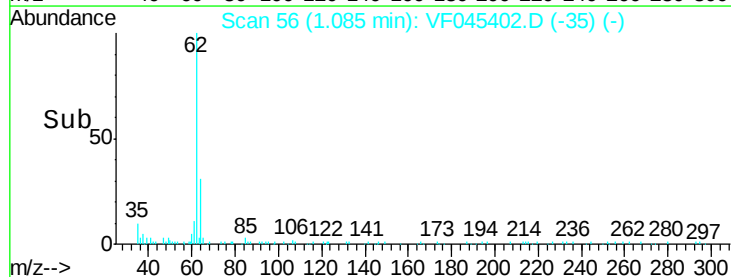
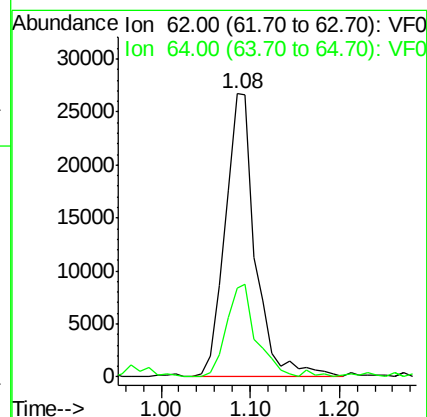
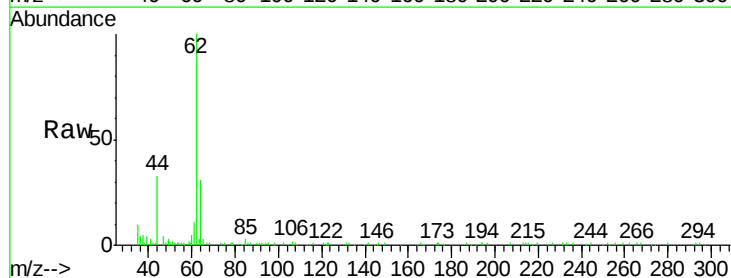
Acq: 16 Sep 2015 21:32

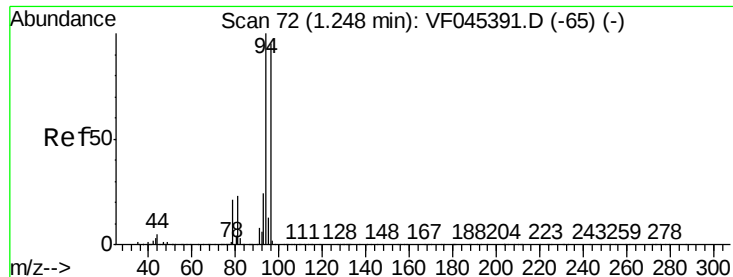
Tgt Ion: 62 Resp: 63895

Ion Ratio Lower Upper

62 100

64 31.4 26.6 39.8





#5

Bromomethane

Concen: 8.71 ug/l

RT: 1.25 min Scan# 73

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

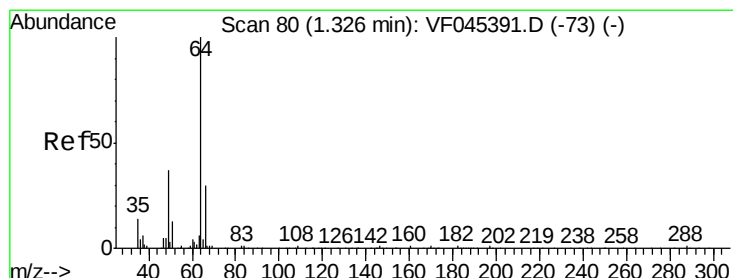
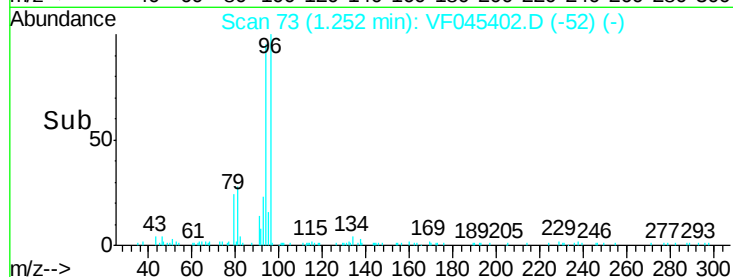
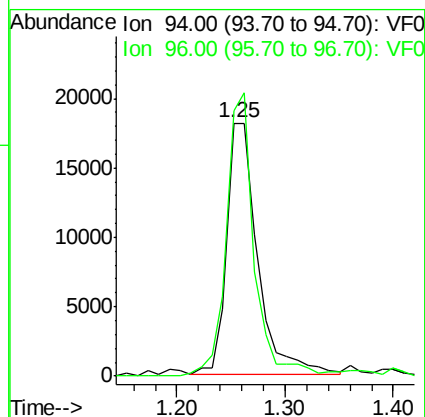
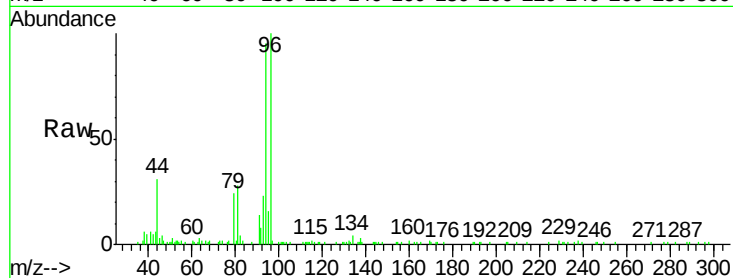
LOQ-SOIL2015-02

Tgt Ion: 94 Resp: 36231

Ion Ratio Lower Upper

94 100

96 104.9 75.0 112.4



#6

Chloroethane

Concen: 10.99 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF045402.D

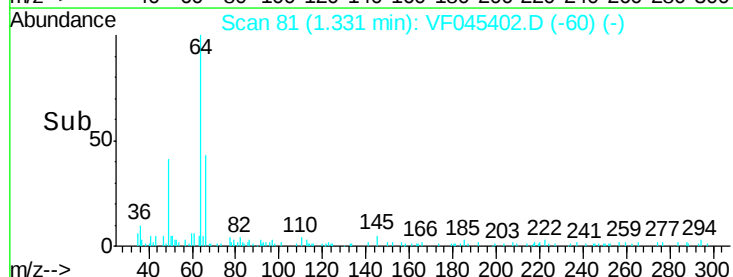
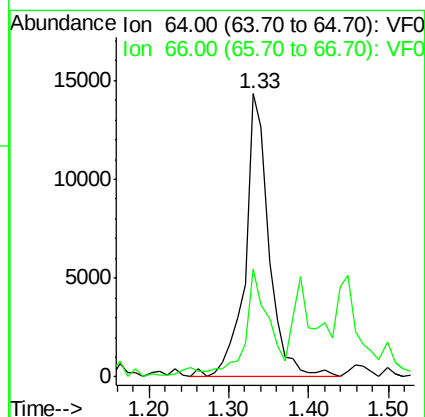
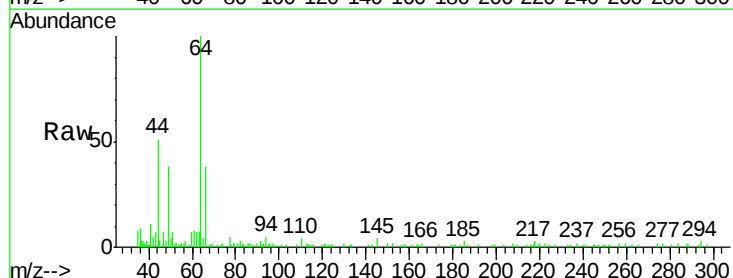
Acq: 16 Sep 2015 21:32

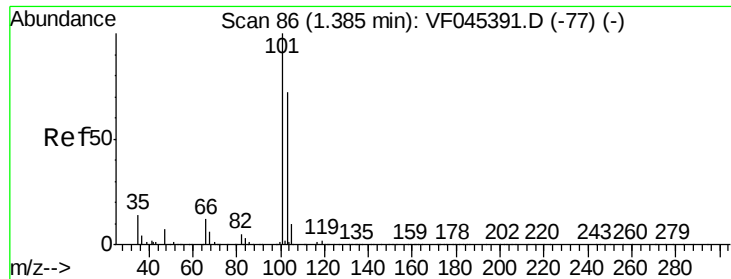
Tgt Ion: 64 Resp: 29337

Ion Ratio Lower Upper

64 100

66 38.1 27.3 40.9





#7

Trichlorofluoromethane

Concen: 4.22 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

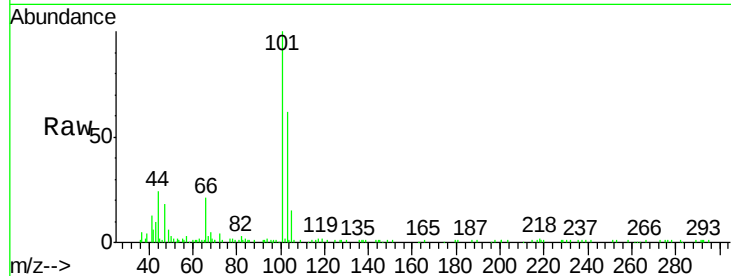
LOQ-SOIL2015-02

Tgt Ion:101 Resp: 58031

Ion Ratio Lower Upper

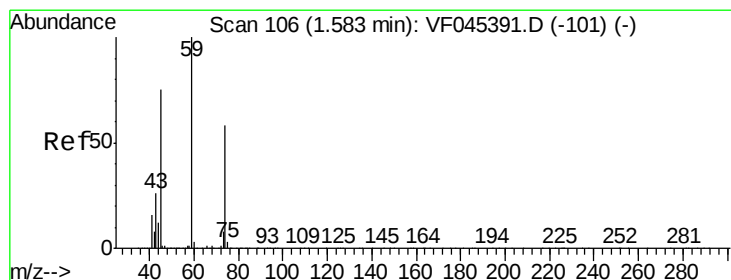
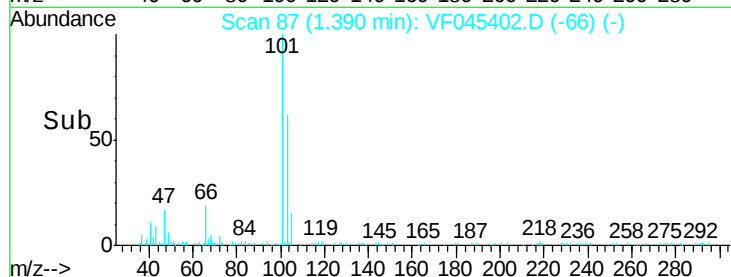
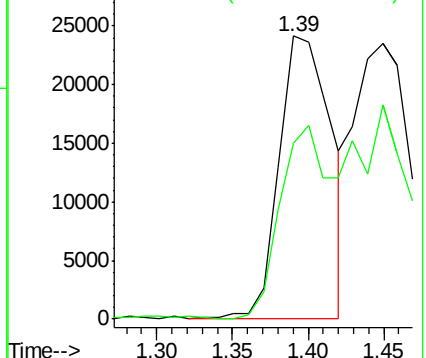
101 100

103 62.3 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 9.31 ug/l

RT: 1.60 min Scan# 108

Delta R.T. 0.01 min

Lab File: VF045402.D

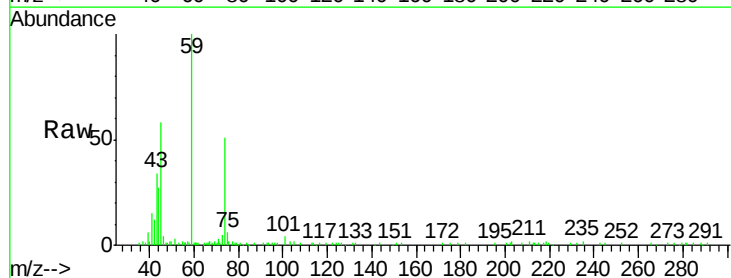
Acq: 16 Sep 2015 21:32

Tgt Ion: 74 Resp: 26742

Ion Ratio Lower Upper

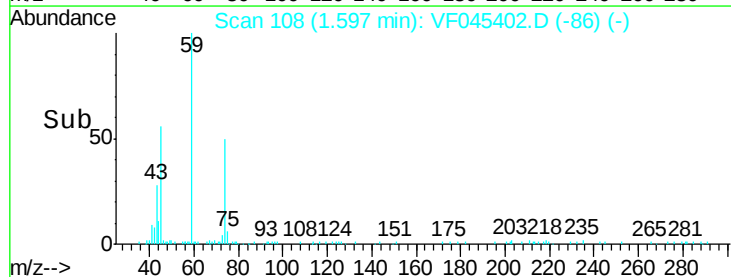
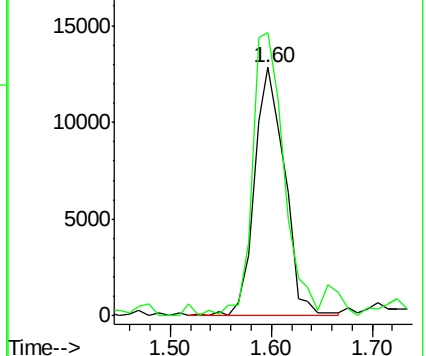
74 100

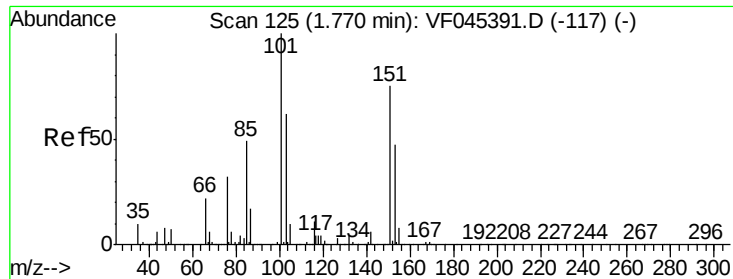
45 113.8 60.9 182.7



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.42 ug/l

RT: 1.78 min Scan# 127

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

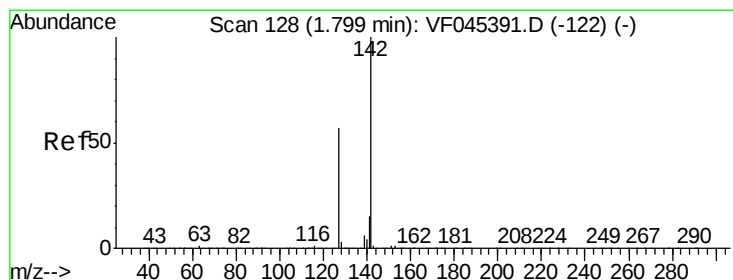
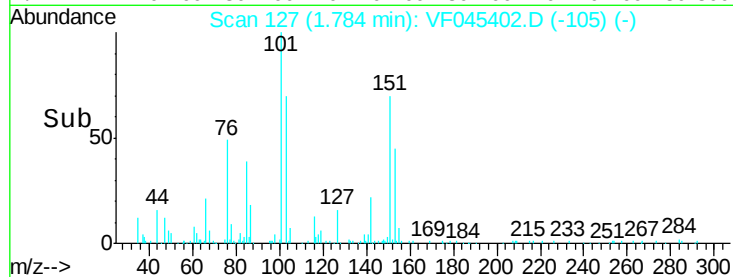
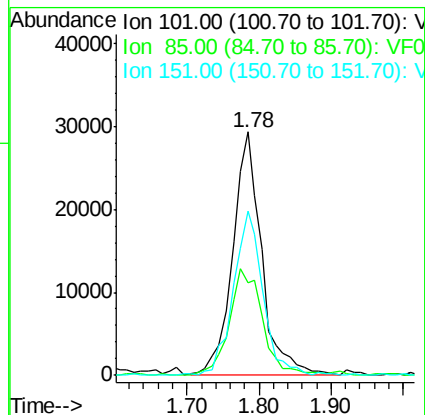
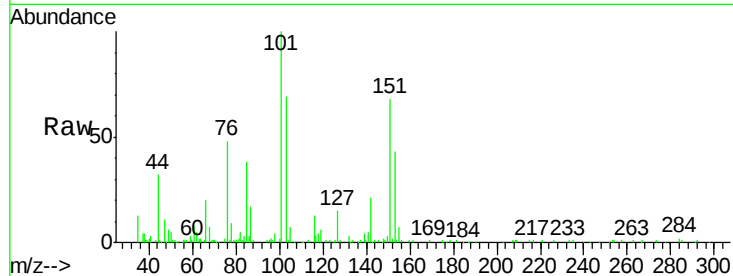
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LOQ-SOIL2015-02

Tgt Ion:	101	Resp:	82399
Ion Ratio	Lower	Upper	
101	100		
85	37.8	40.0	60.0#
151	67.6	62.8	94.2



#10

Methyl Iodide

Concen: 9.91 ug/l

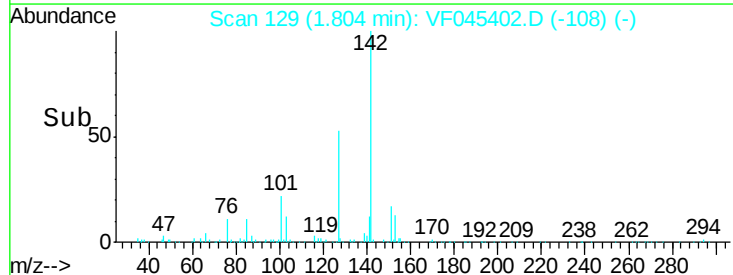
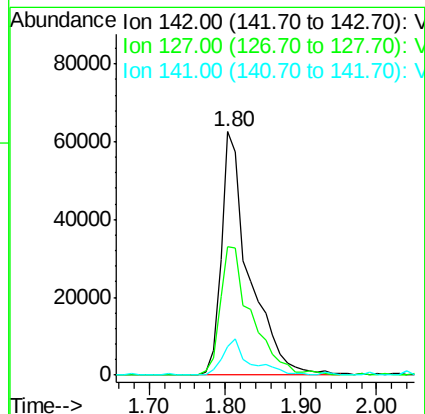
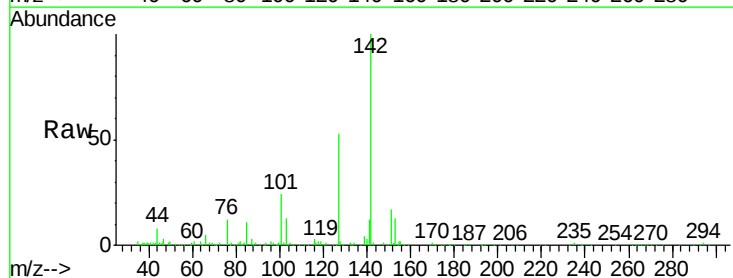
RT: 1.80 min Scan# 129

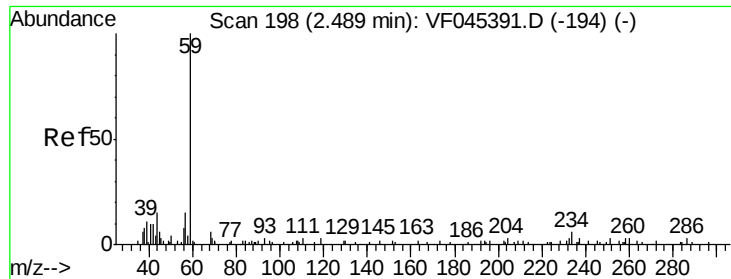
Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion:	142	Resp:	160277
Ion Ratio	Lower	Upper	
142	100		
127	52.8	43.3	64.9
141	12.0	12.1	18.1#





#11

Tert butyl alcohol

Concen: 45.83 ug/l

RT: 2.52 min Scan# 202

Delta R.T. 0.03 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

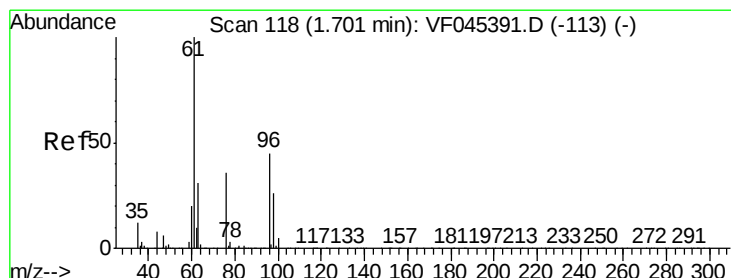
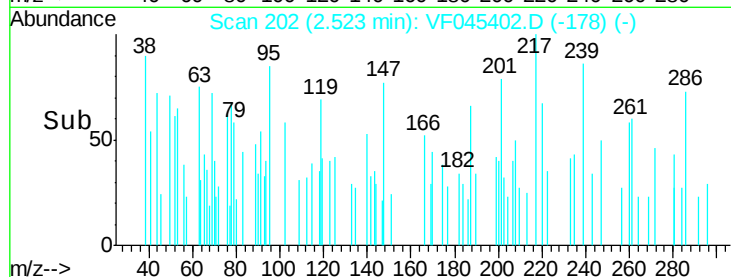
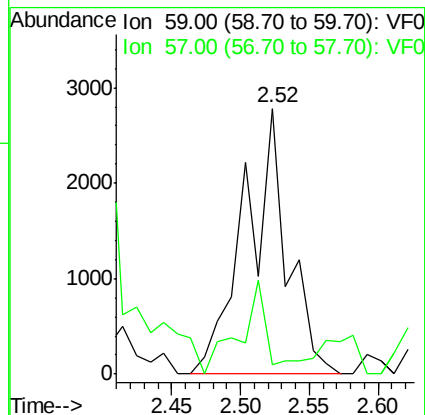
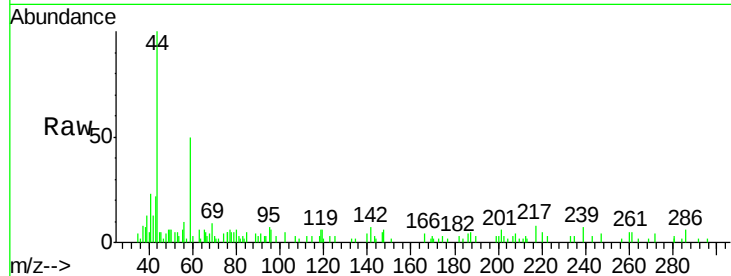
LOQ-SOIL2015-02

Tgt Ion: 59 Resp: 5928

Ion Ratio Lower Upper

59 100

57 3.7 8.6 13.0#



#12

1,1-Dichloroethene

Concen: 9.49 ug/l

RT: 1.72 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

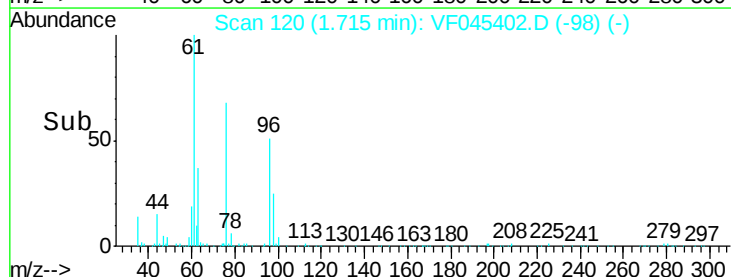
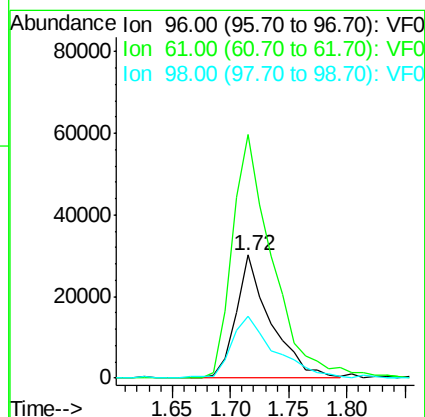
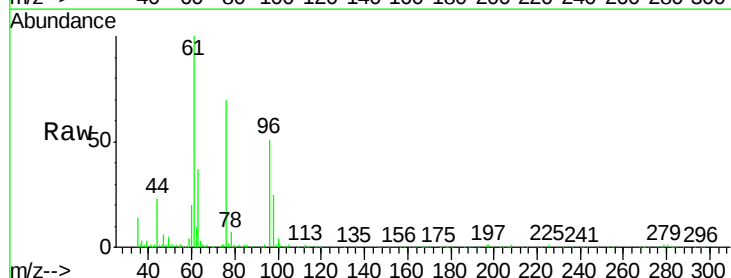
Tgt Ion: 96 Resp: 62366

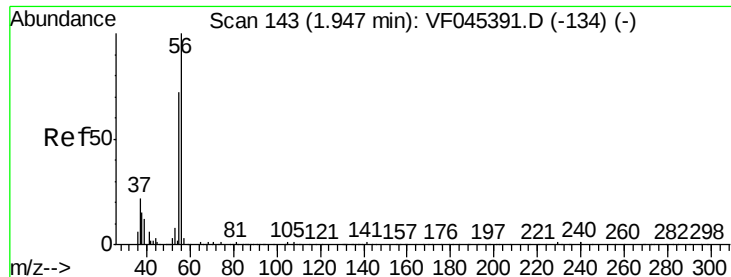
Ion Ratio Lower Upper

96 100

61 197.5 165.8 248.8

98 50.2 51.2 76.8#





#13

Acrolein

Concen: 49.39 ug/l

RT: 1.95 min Scan# 144

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

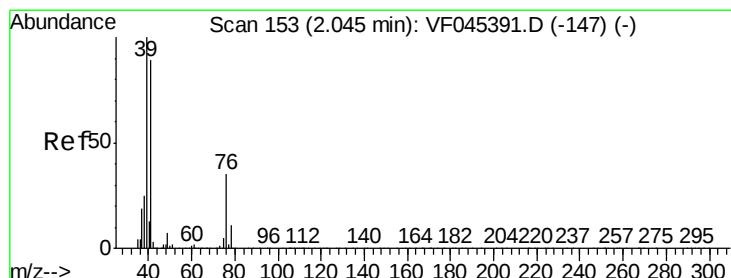
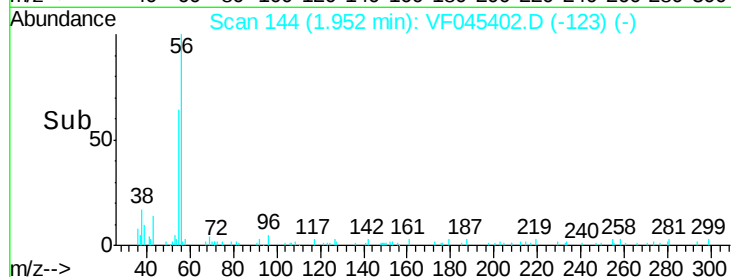
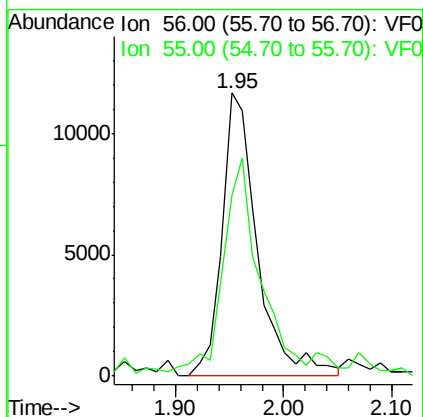
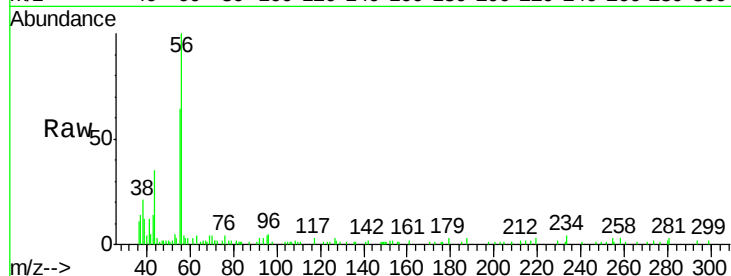
LOQ-SOIL2015-02

Tgt Ion: 56 Resp: 26475

Ion Ratio Lower Upper

56 100

55 64.1 60.5 90.7



#14

Allyl chloride

Concen: 9.58 ug/l

RT: 2.05 min Scan# 154

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

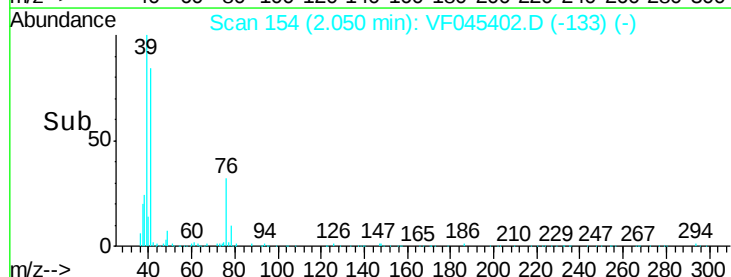
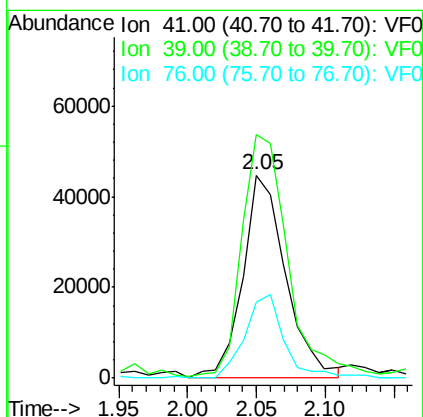
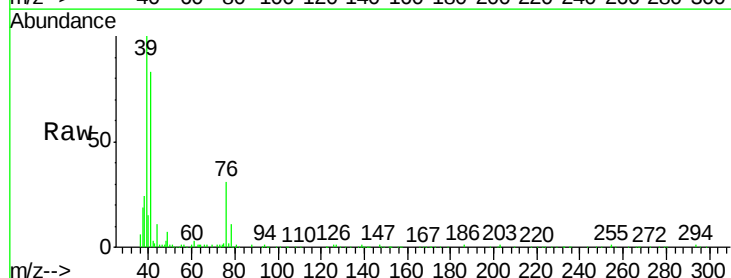
Tgt Ion: 41 Resp: 97731

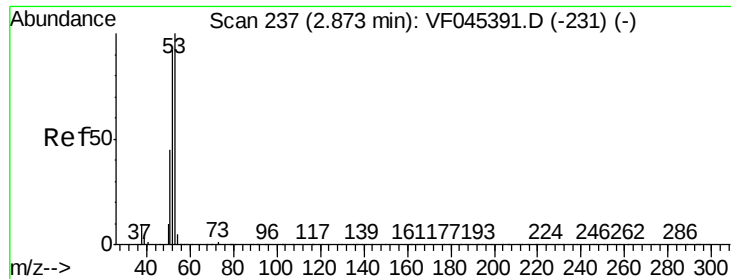
Ion Ratio Lower Upper

41 100

39 119.8 92.8 139.2

76 37.6 27.7 41.5

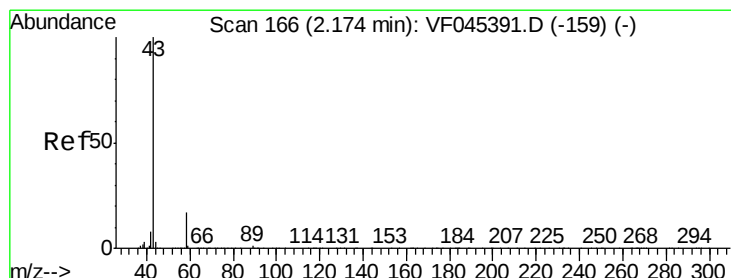
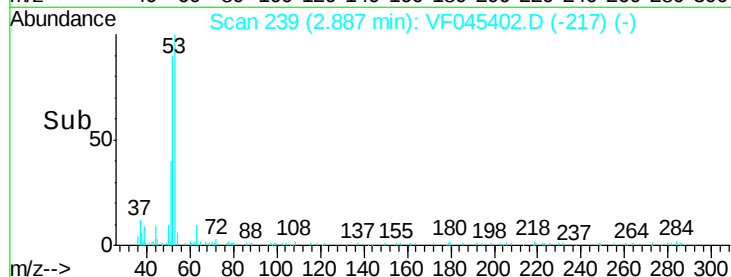
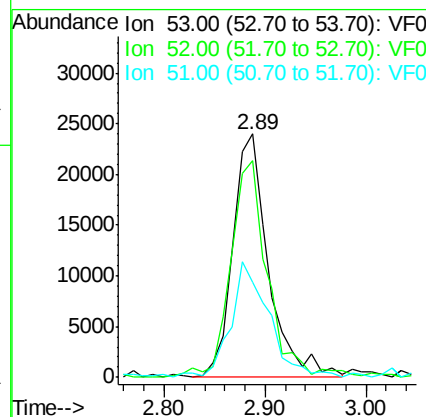
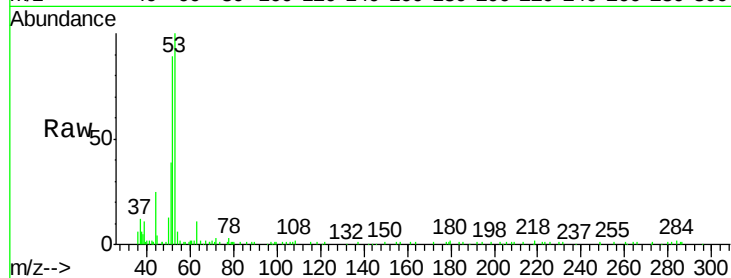




#15
Acrylonitrile
Concen: 47.60 ug/l
RT: 2.89 min Scan# 239
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

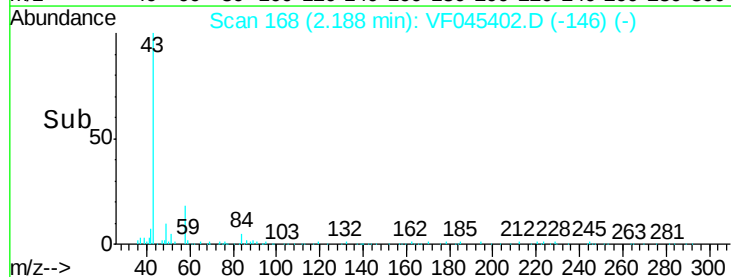
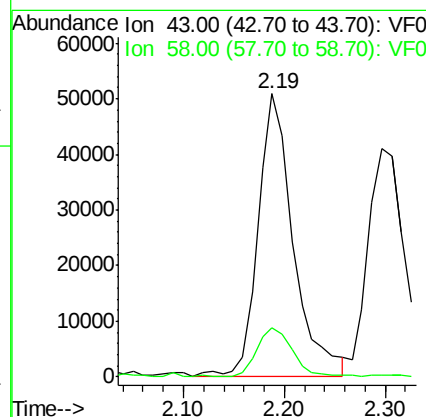
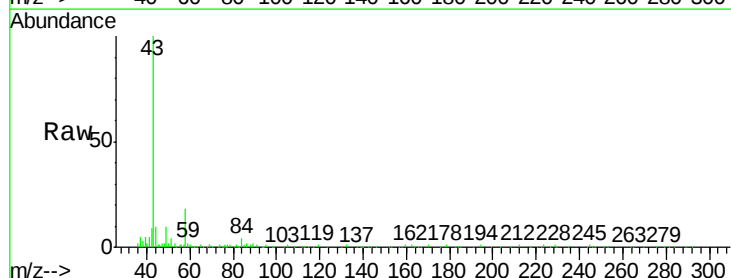
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

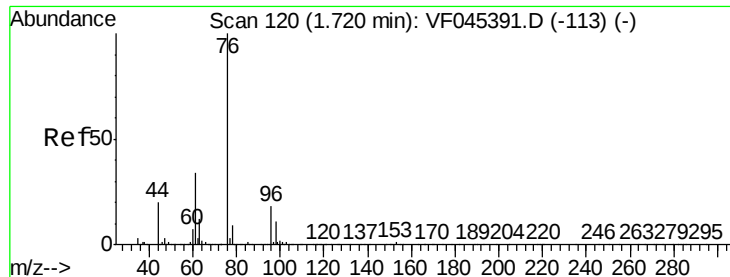
Tgt Ion: 53 Resp: 58844
Ion Ratio Lower Upper
53 100
52 89.1 72.7 109.1
51 39.1 42.2 63.2#



#16
Acetone
Concen: 46.88 ug/l
RT: 2.19 min Scan# 168
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion: 43 Resp: 122507
Ion Ratio Lower Upper
43 100
58 17.6 13.9 20.9

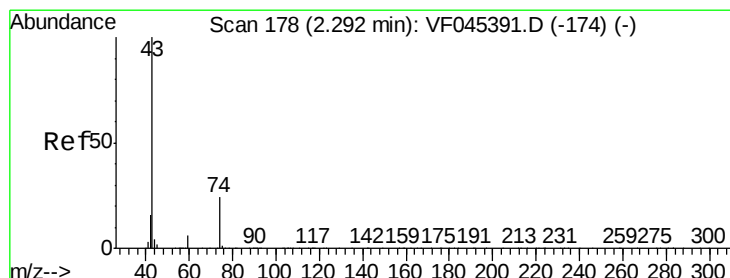
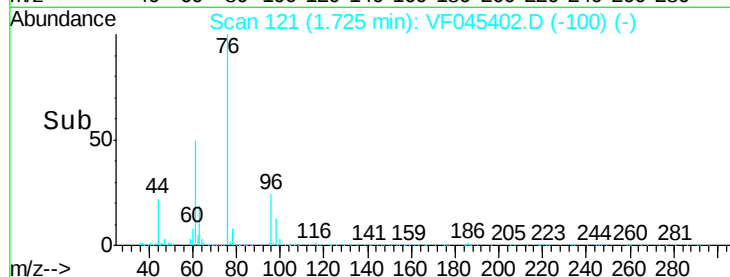
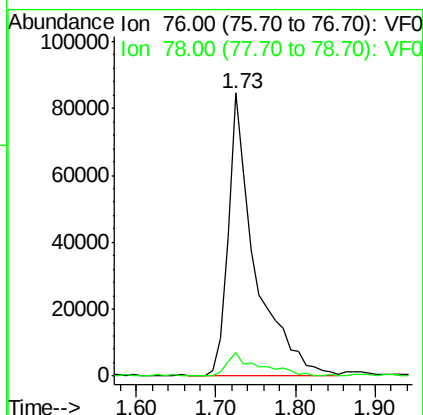
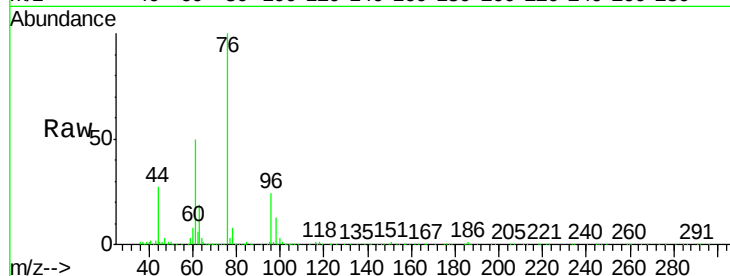




#17
Carbon Disulfide
Concen: 8.93 ug/l
RT: 1.73 min Scan# 121
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

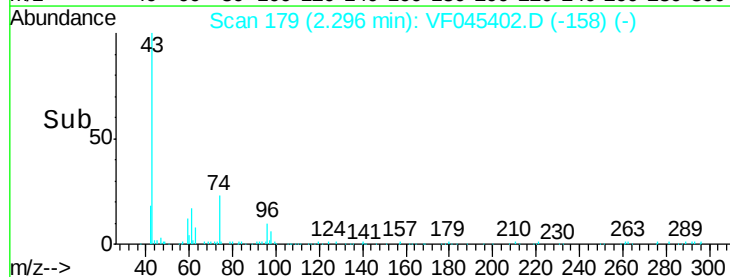
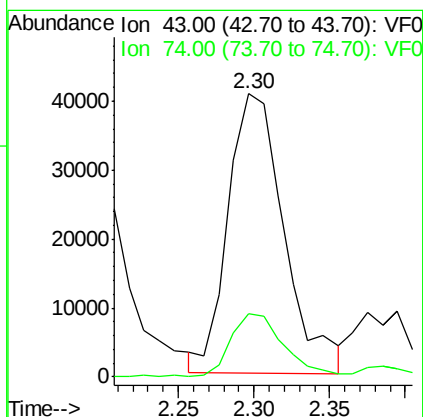
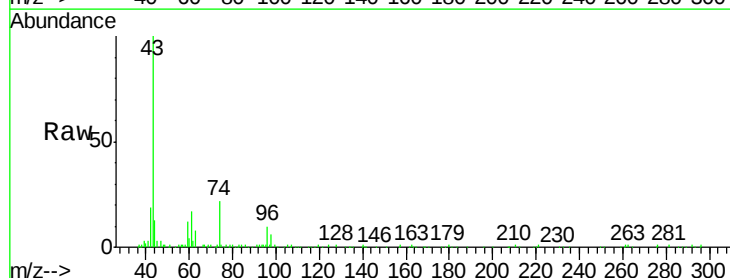
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

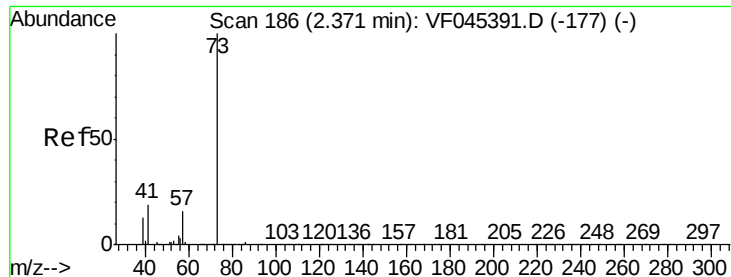
Tgt Ion: 76 Resp: 200020
Ion Ratio Lower Upper
76 100
78 8.5 7.6 11.4



#18
Methyl Acetate
Concen: 10.44 ug/l
RT: 2.30 min Scan# 179
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion: 43 Resp: 104628
Ion Ratio Lower Upper
43 100
74 22.3 15.1 22.7





#19

Methyl tert-butyl Ether

Concen: 10.86 ug/l

RT: 2.39 min Scan# 188

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

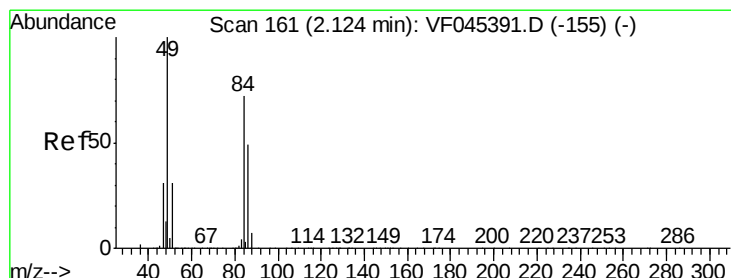
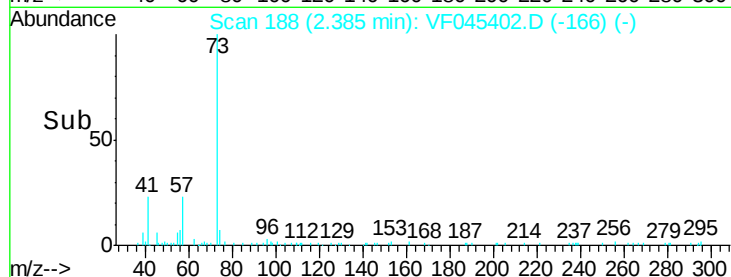
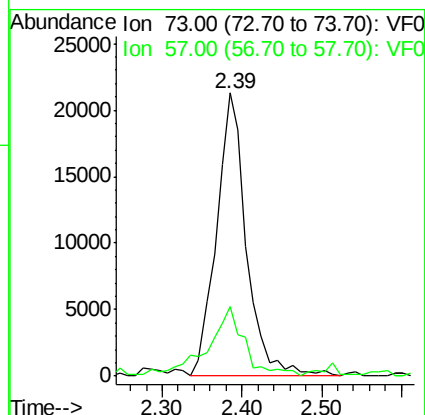
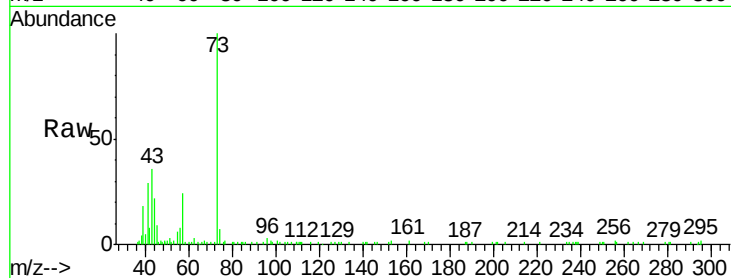
LOQ-SOIL2015-02

Tgt Ion: 73 Resp: 56159

Ion Ratio Lower Upper

73 100

57 24.4 12.9 19.3#



#20

Methylene Chloride

Concen: 6.57 ug/l

RT: 2.14 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion: 84 Resp: 76793

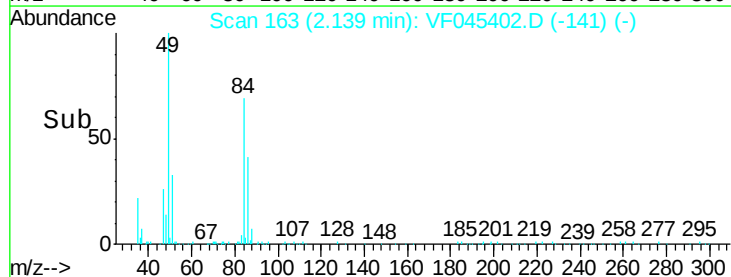
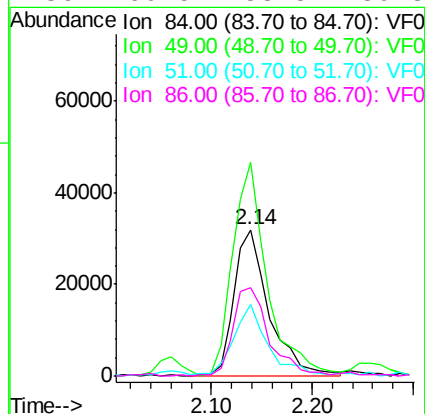
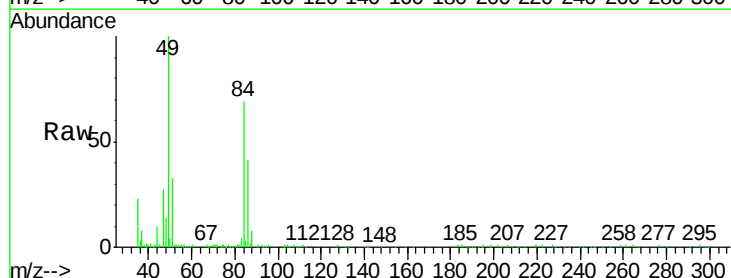
Ion Ratio Lower Upper

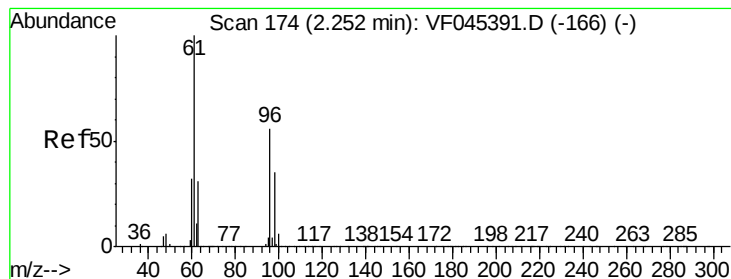
84 100

49 145.9 122.8 184.2

51 48.8 35.4 53.2

86 60.5 53.5 80.3





#21

trans-1,2-Dichloroethene

Concen: 9.96 ug/l

RT: 2.27 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

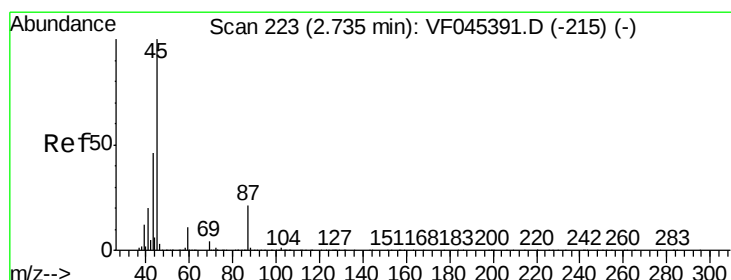
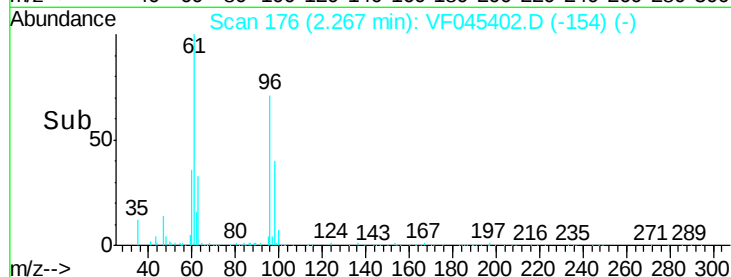
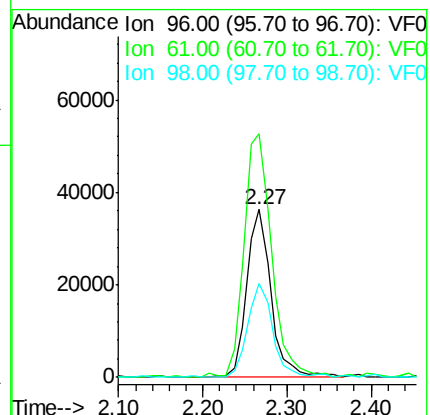
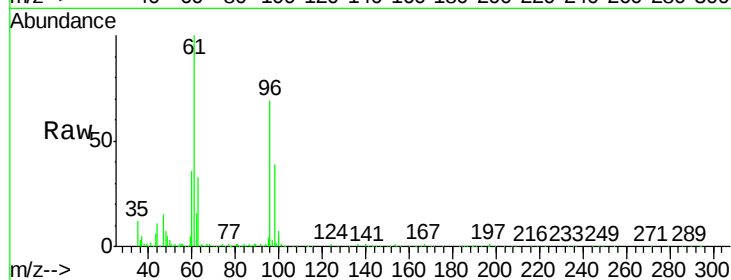
Tgt Ion: 96 Resp: 73347

Ion Ratio Lower Upper

96 100

61 145.2 136.8 205.2

98 56.0 51.0 76.4



#22

Diisopropyl ether

Concen: 9.73 ug/l

RT: 2.75 min Scan# 225

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion: 45 Resp: 211560

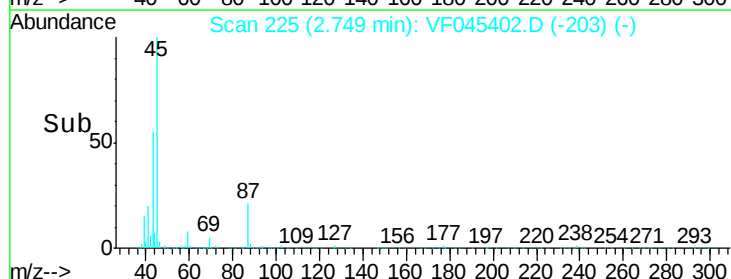
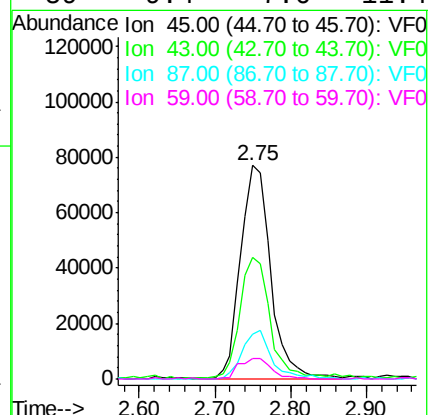
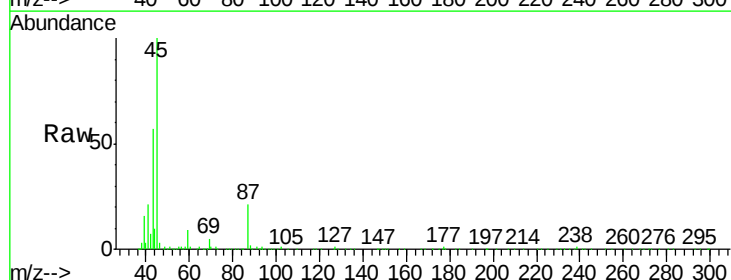
Ion Ratio Lower Upper

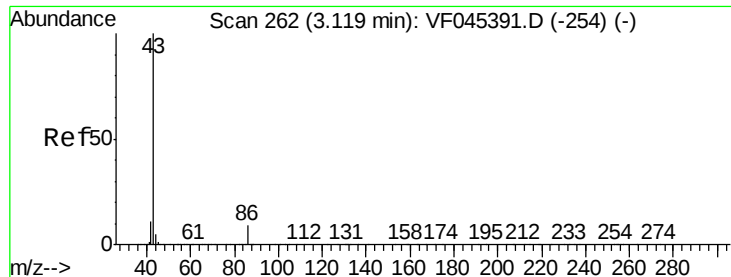
45 100

43 56.8 42.2 63.4

87 20.7 16.6 25.0

59 9.4 7.6 11.4





#23

Vinyl Acetate

Concen: 48.08 ug/l

RT: 3.13 min Scan# 264

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

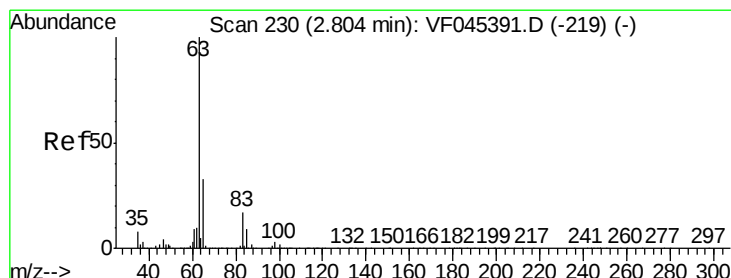
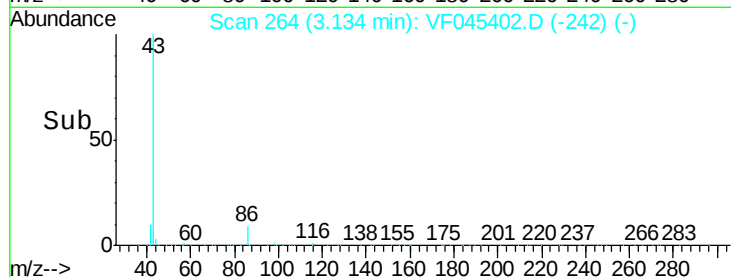
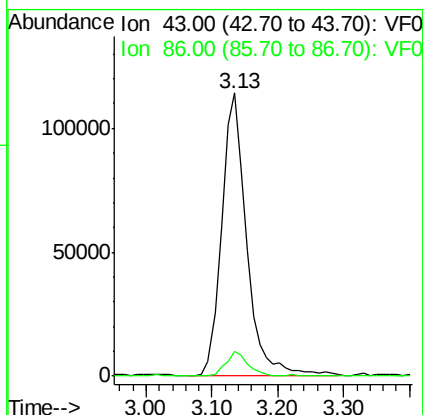
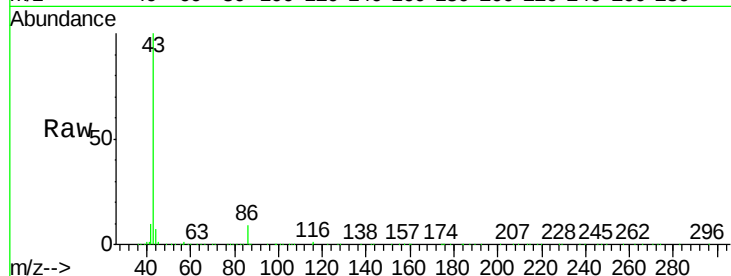
LOQ-SOIL2015-02

Tgt Ion: 43 Resp: 305027

Ion Ratio Lower Upper

43 100

86 8.9 6.3 9.5



#24

1,1-Dichloroethane

Concen: 9.81 ug/l

RT: 2.82 min Scan# 232

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

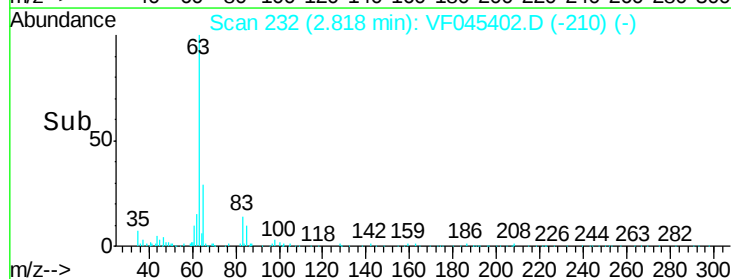
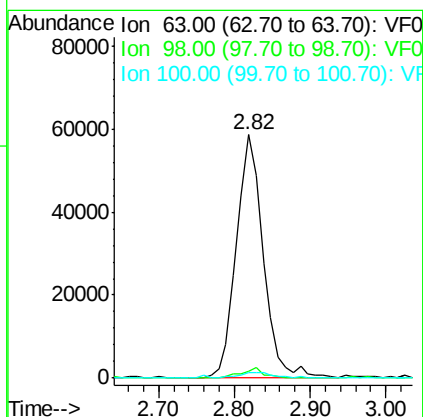
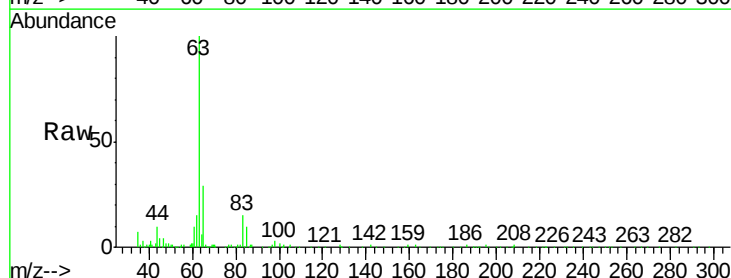
Tgt Ion: 63 Resp: 144280

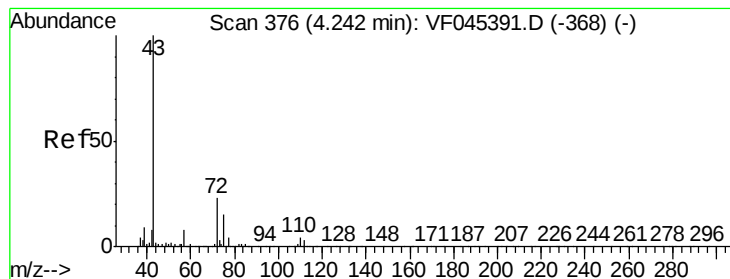
Ion Ratio Lower Upper

63 100

98 3.0 2.2 6.6

100 2.2 1.1 3.5





#25

2-Butanone

Concen: 47.42 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.02 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

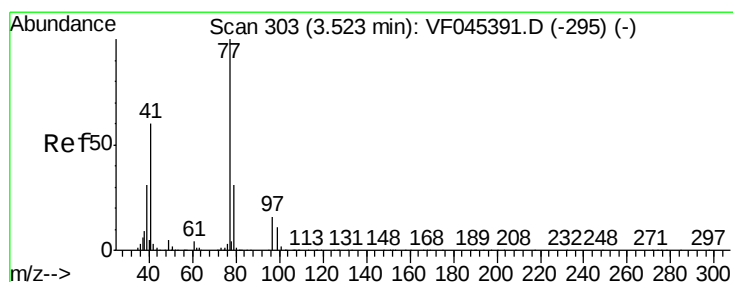
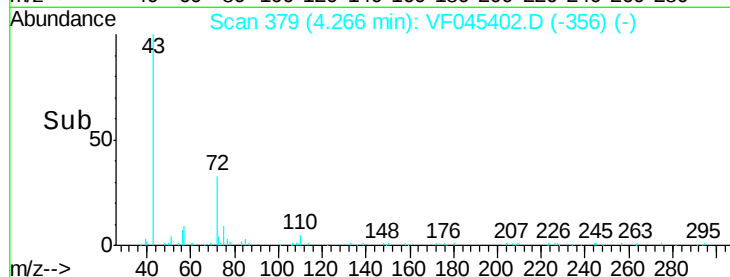
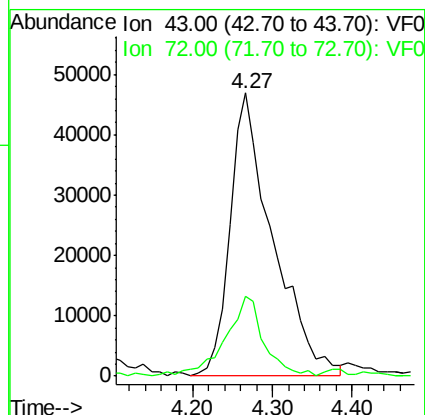
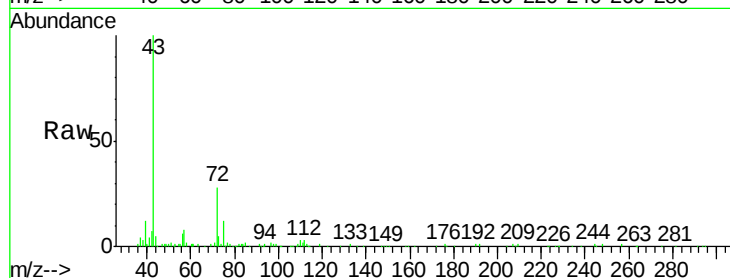
LOQ-SOIL2015-02

Tgt Ion: 43 Resp: 173358

Ion Ratio Lower Upper

43 100

72 28.2 20.2 30.2



#26

2,2-Dichloropropane

Concen: 9.85 ug/l

RT: 3.54 min Scan# 305

Delta R.T. 0.01 min

Lab File: VF045402.D

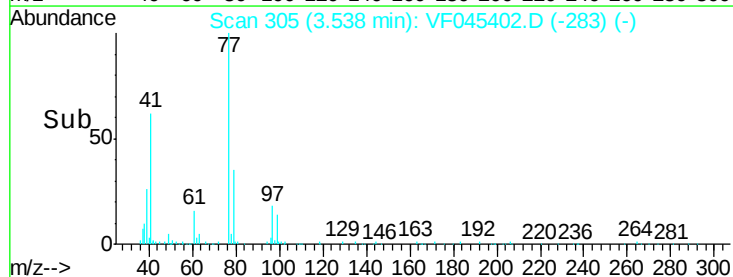
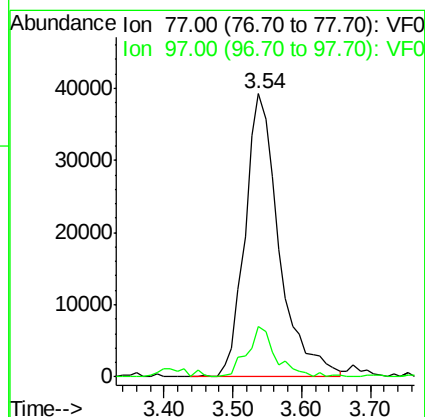
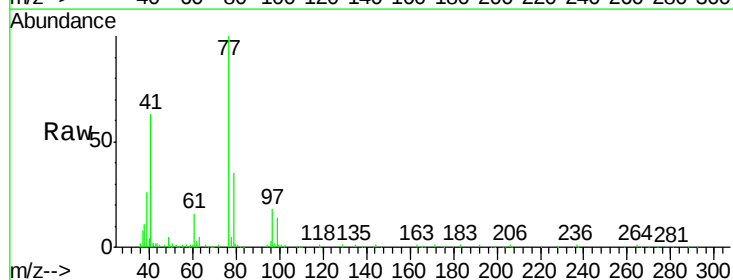
Acq: 16 Sep 2015 21:32

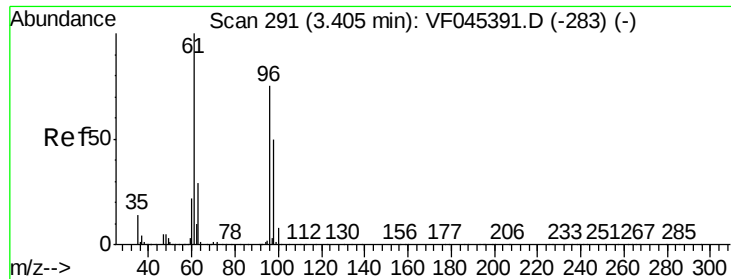
Tgt Ion: 77 Resp: 134921

Ion Ratio Lower Upper

77 100

97 17.7 9.2 27.4



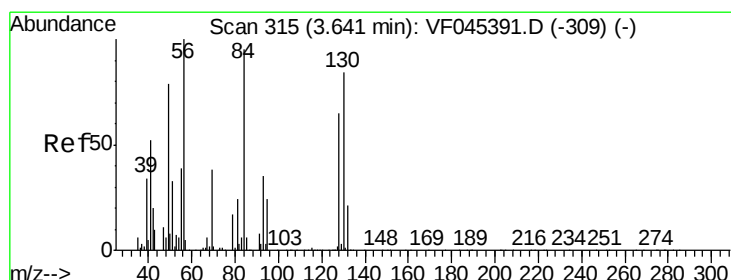
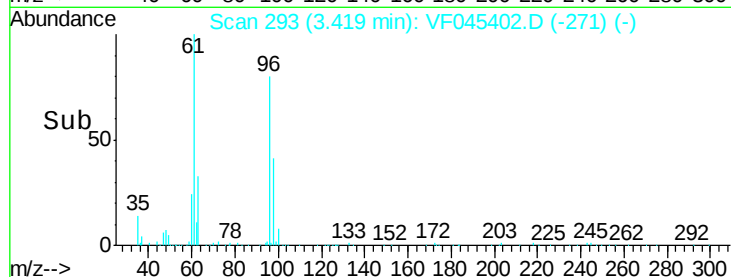
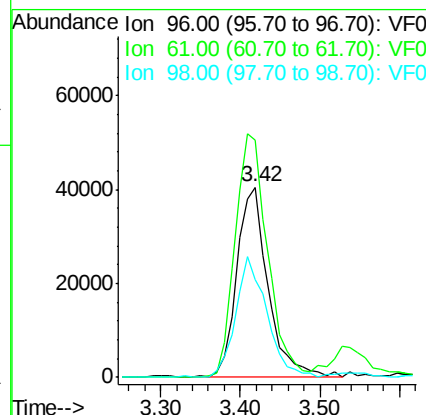
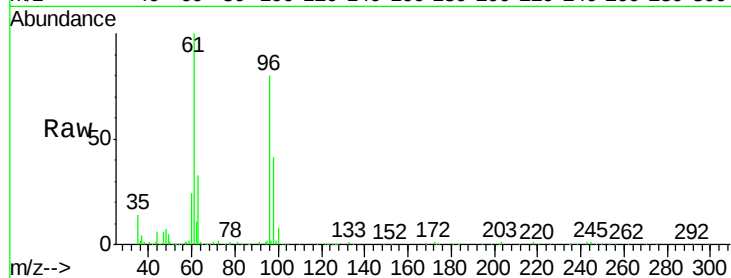


#27

cis-1,2-Dichloroethene
Concen: 9.76 ug/l
RT: 3.42 min Scan# 293
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

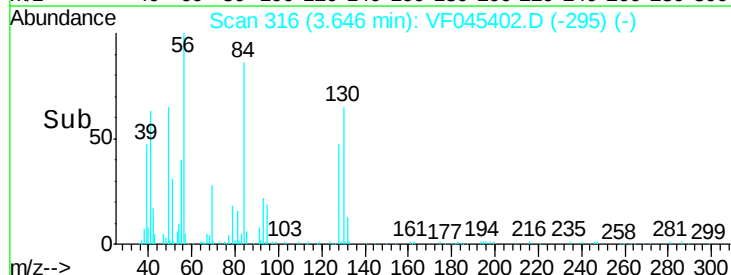
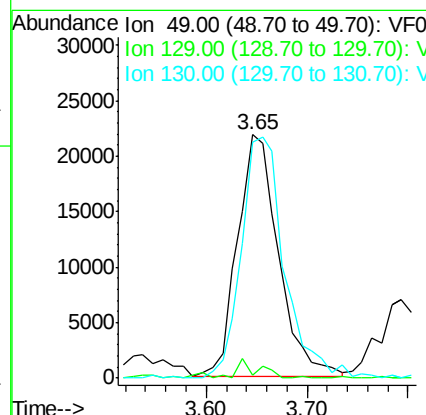
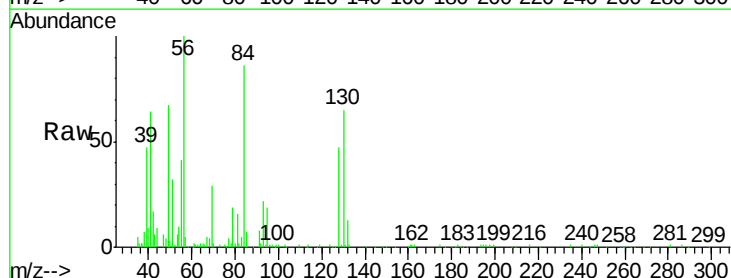
Tgt Ion	Ratio	Lower	Upper
96	100		
61	125.2	0.0	268.6
98	51.6	0.0	135.8

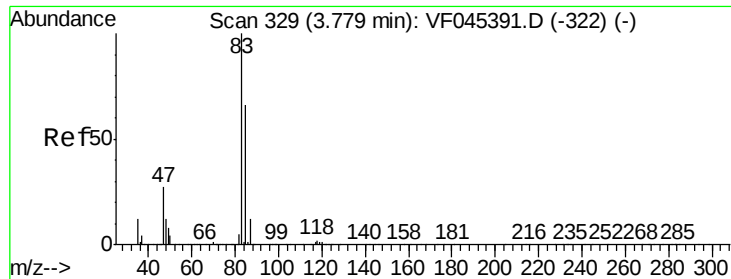


#28

Bromochloromethane
Concen: 10.73 ug/l
RT: 3.65 min Scan# 316
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	0.0#
130	96.9	79.6	119.4

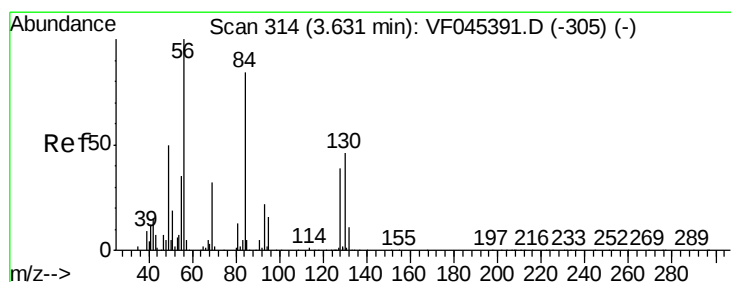
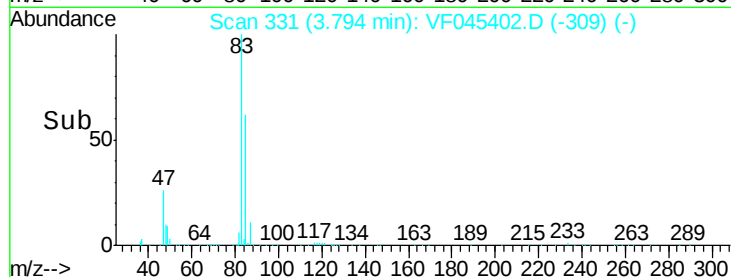
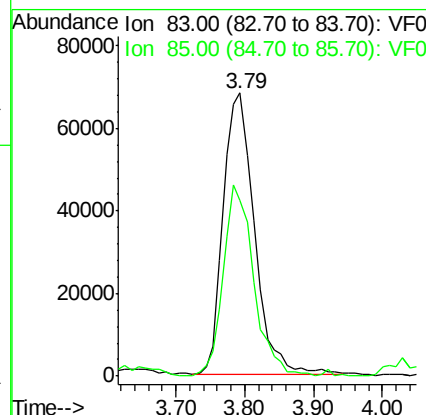
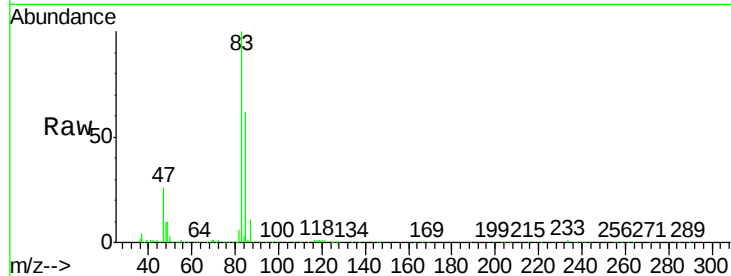




#29
Chloroform
Concen: 10.40 ug/l
RT: 3.79 min Scan# 331
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

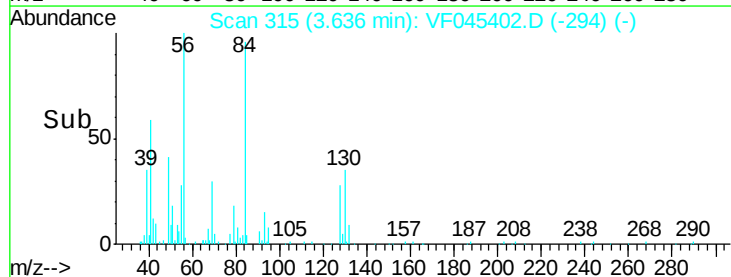
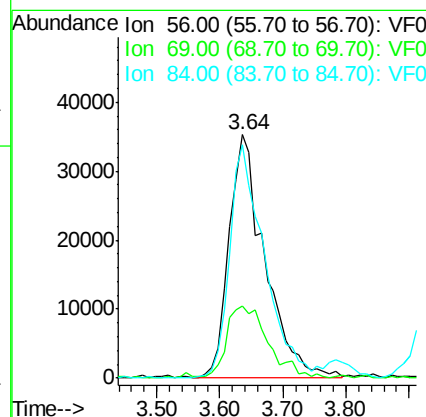
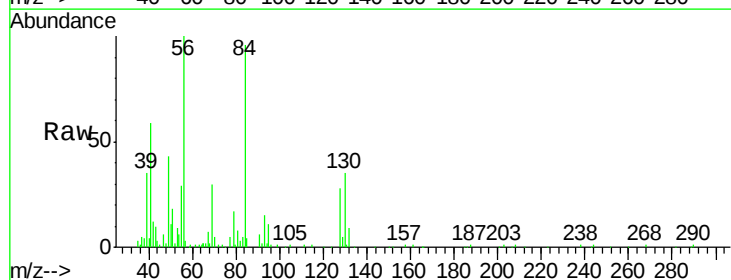
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

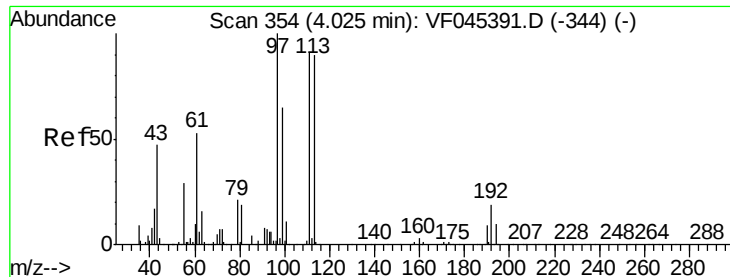
Tgt Ion: 83 Resp: 215125
Ion Ratio Lower Upper
83 100
85 62.1 51.6 77.4



#30
Cyclohexane
Concen: 10.50 ug/l
RT: 3.64 min Scan# 315
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion: 56 Resp: 139334
Ion Ratio Lower Upper
56 100
69 29.7 26.1 39.1
84 95.6 72.2 108.4





#31

1,1,1-Trichloroethane

Concen: 9.80 ug/l

RT: 4.04 min Scan# 356

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

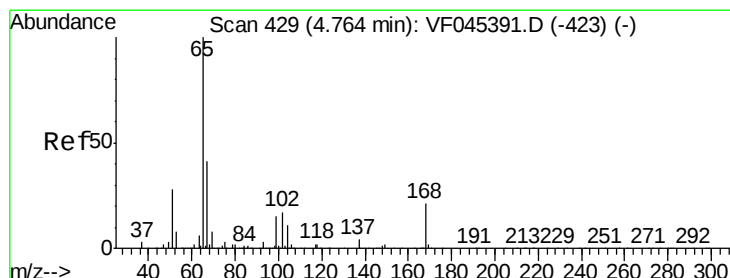
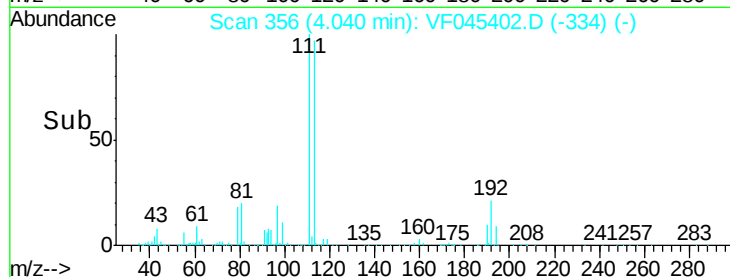
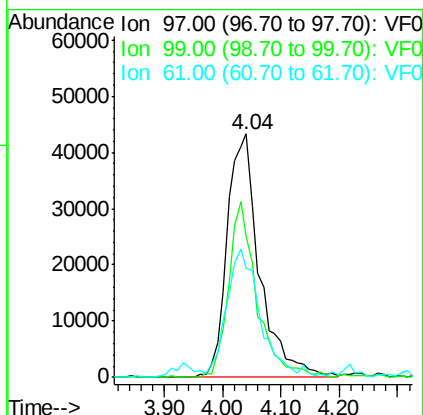
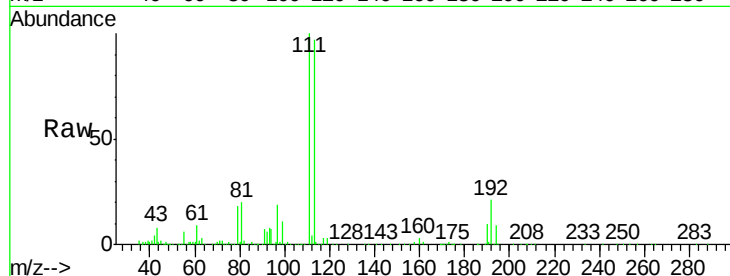
Tgt Ion: 97 Resp: 167820

Ion Ratio Lower Upper

97 100

99 57.9 51.1 76.7

61 45.1 37.8 56.6



#32

1,2-Dichloroethane-d4

Concen: 52.30 ug/l

RT: 4.78 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF045402.D

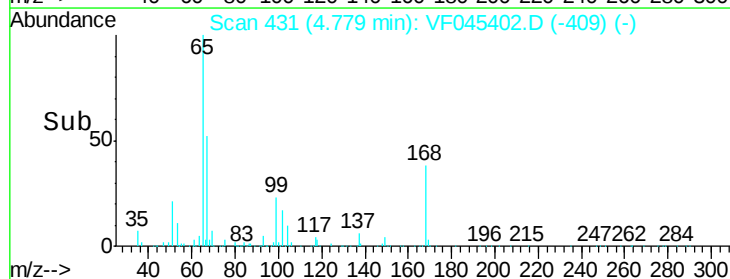
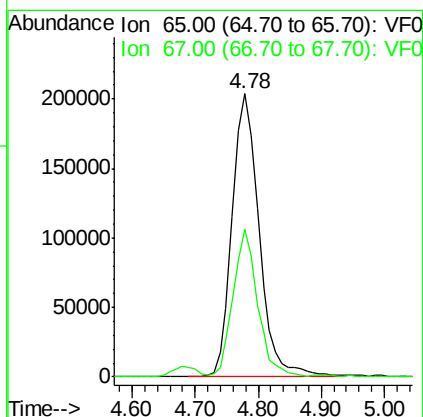
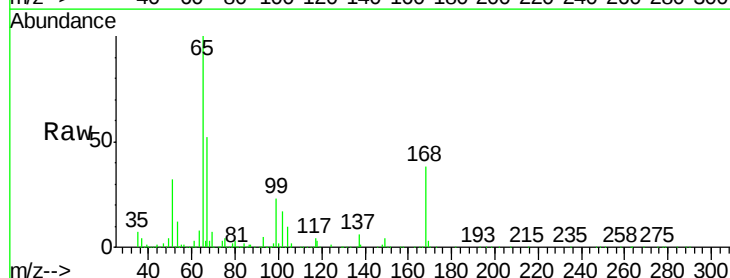
Acq: 16 Sep 2015 21:32

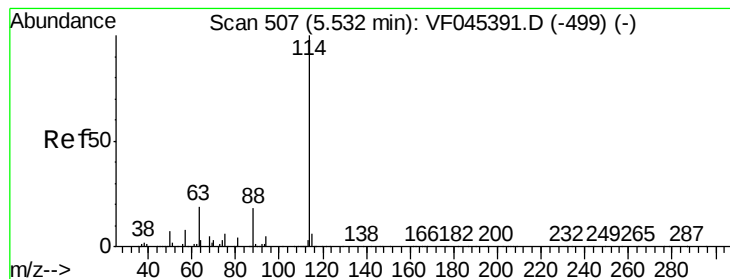
Tgt Ion: 65 Resp: 602069

Ion Ratio Lower Upper

65 100

67 52.0 0.0 102.2





#33

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.54 min Scan# 508

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

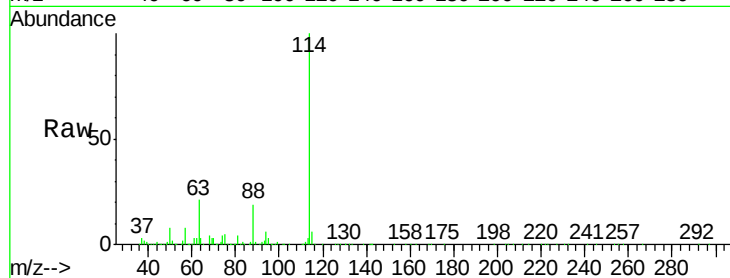
Tgt Ion:114 Resp: 1539115

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.2

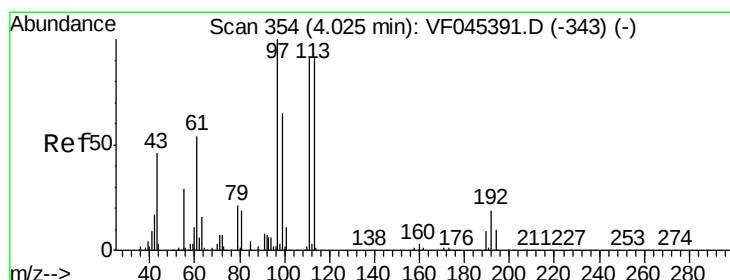
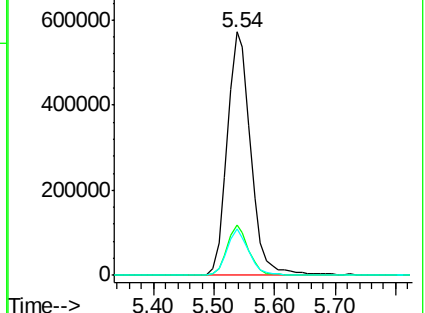
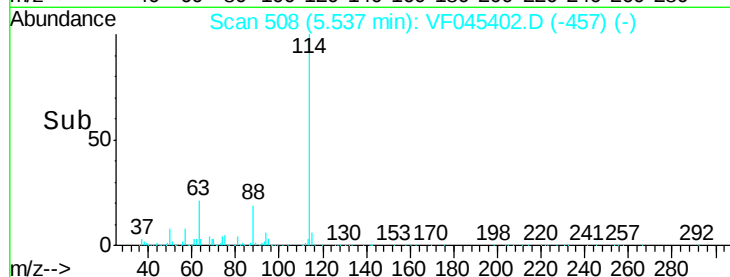
88 18.9 0.0 37.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#34

Dibromofluoromethane

Concen: 56.32 ug/l

RT: 4.04 min Scan# 356

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

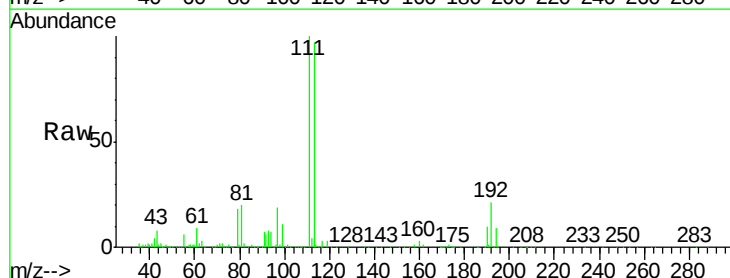
Tgt Ion:113 Resp: 671484

Ion Ratio Lower Upper

113 100

111 102.6 75.5 113.3

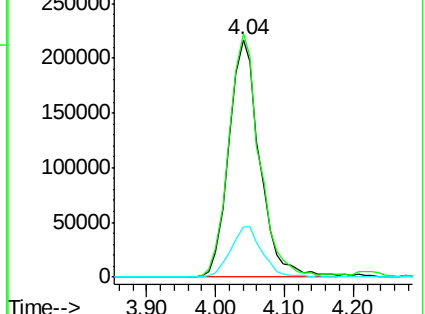
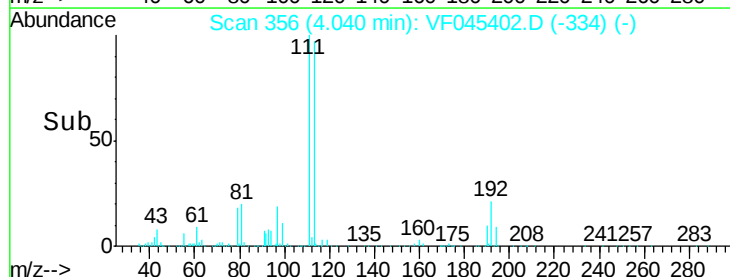
192 21.8 15.6 23.4

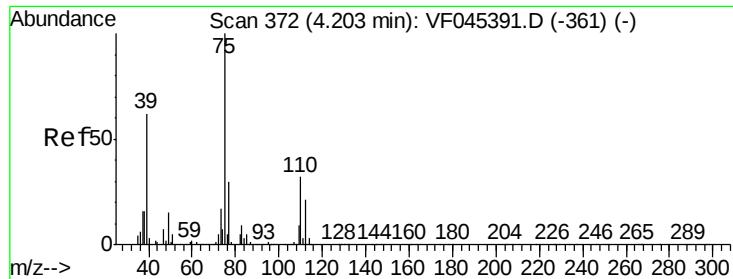


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

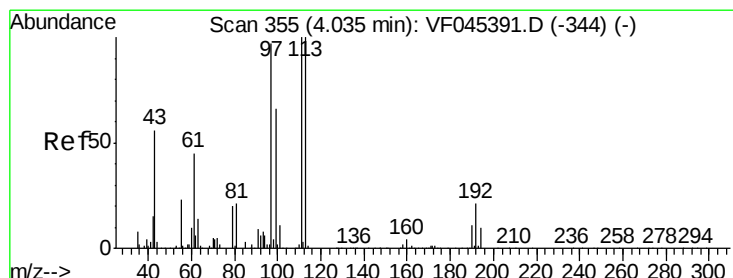
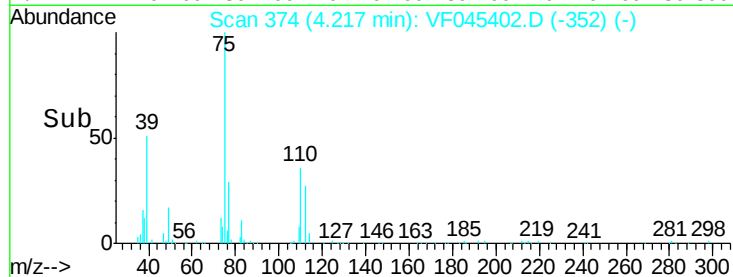
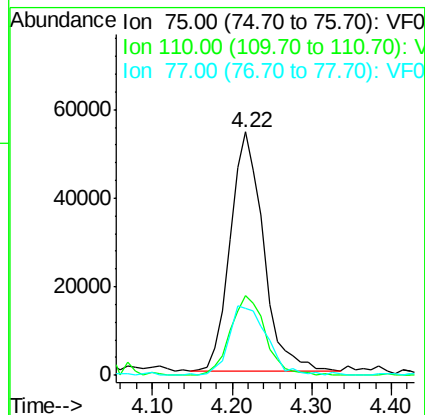
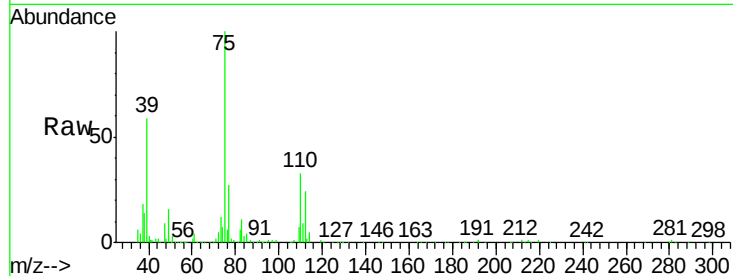




#35
 1,1-Dichloropropene
 Concen: 10.83 ug/l
 RT: 4.22 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

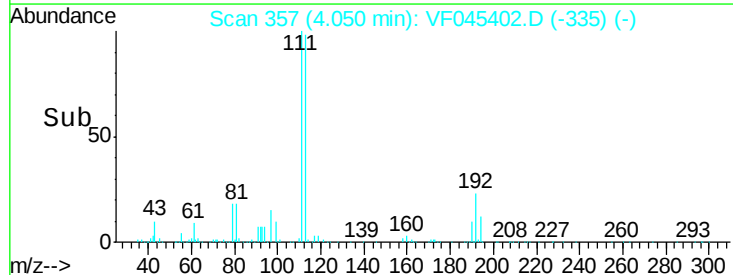
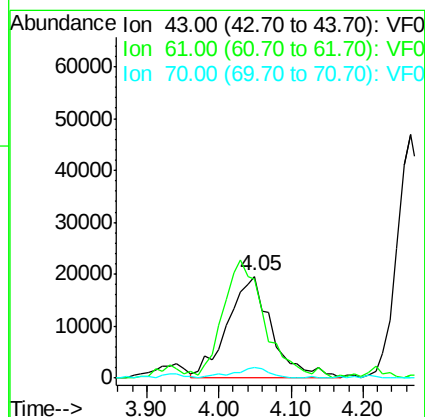
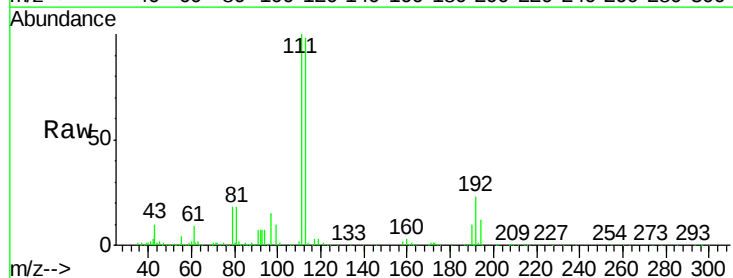
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

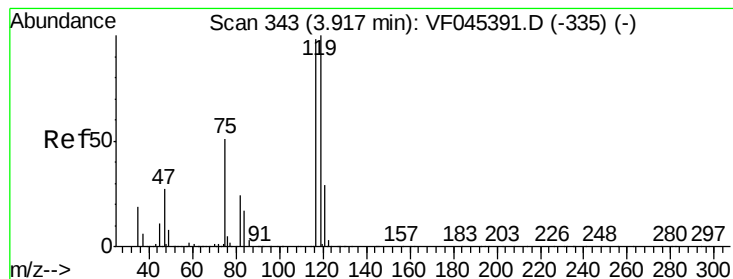
Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.5	15.9	47.6
77	27.5	24.2	36.4



#36
 Ethyl Acetate
 Concen: 11.09 ug/l
 RT: 4.05 min Scan# 357
 Delta R.T. 0.01 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Tgt Ion	Ratio	Lower	Upper
43	100		
61	97.2	49.4	74.0#
70	10.5	10.8	16.2#





#37

Carbon Tetrachloride

Concen: 9.87 ug/l

RT: 3.93 min Scan# 345

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

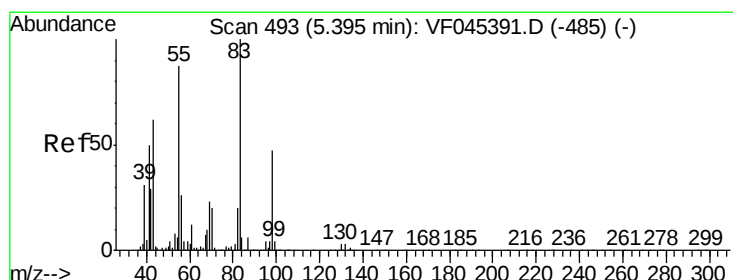
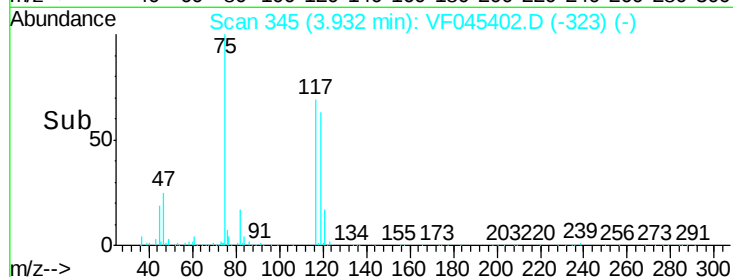
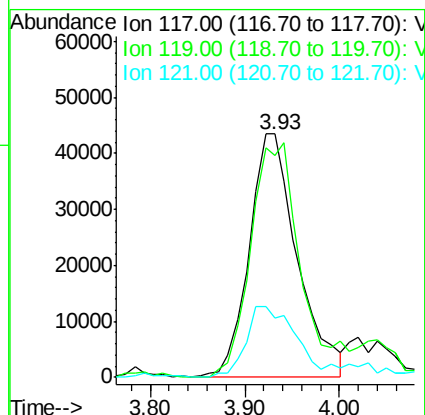
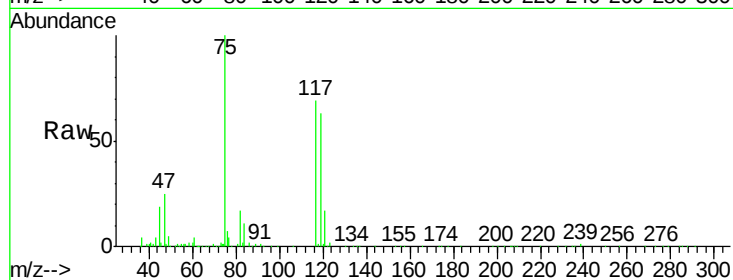
Tgt Ion:117 Resp: 151821

Ion Ratio Lower Upper

117 100

119 91.3 77.8 116.8

121 24.6 25.4 38.0#



#38

Methylcyclohexane

Concen: 10.61 ug/l

RT: 5.40 min Scan# 494

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

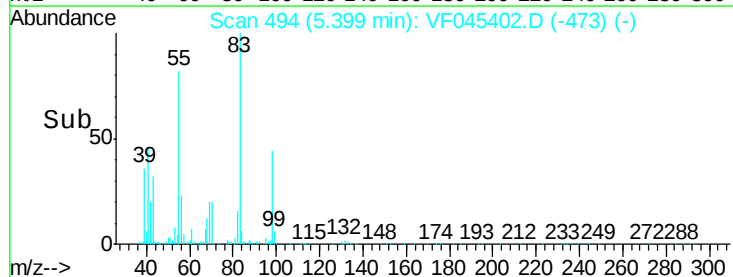
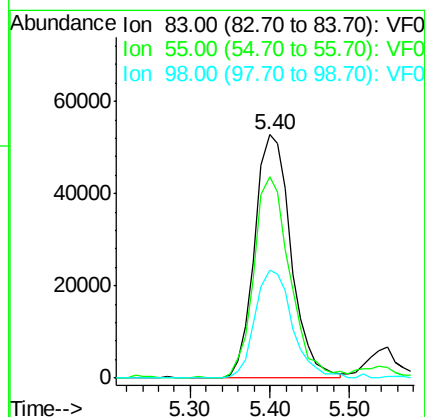
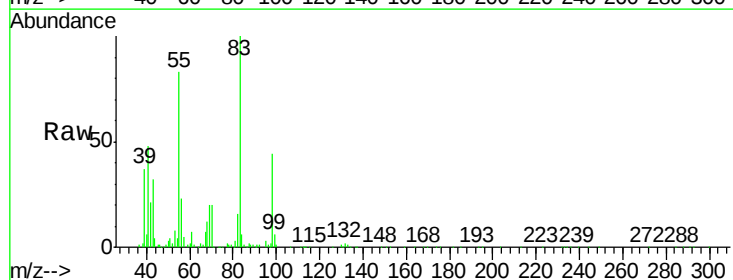
Tgt Ion: 83 Resp: 166511

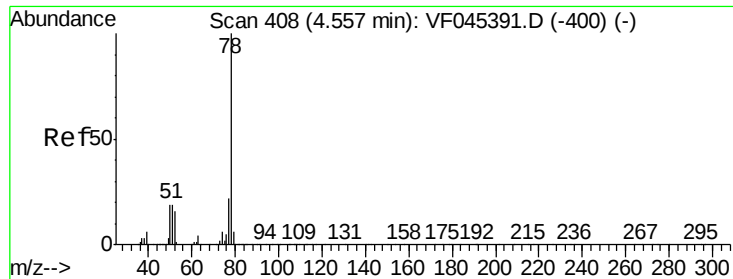
Ion Ratio Lower Upper

83 100

55 82.6 60.5 90.7

98 44.2 38.1 57.1





#39

Benzene

Concen: 11.20 ug/l

RT: 4.57 min Scan# 410

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

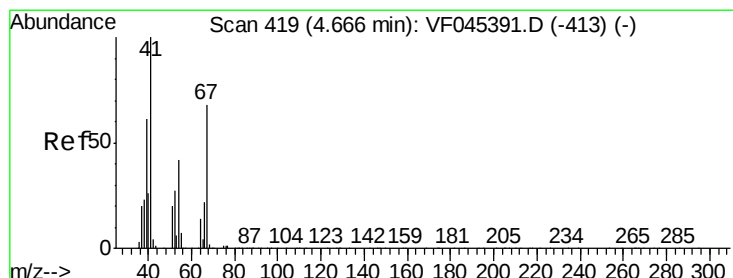
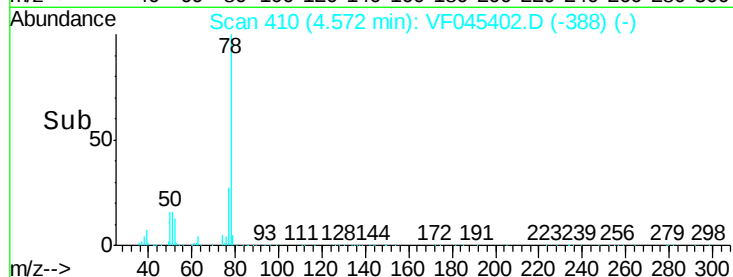
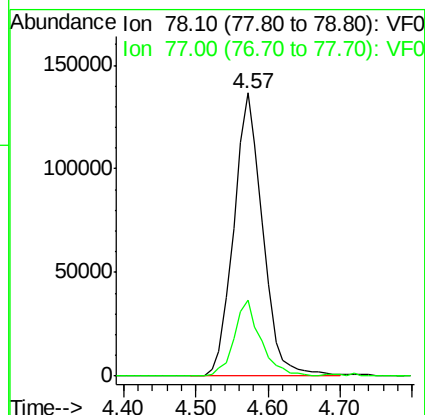
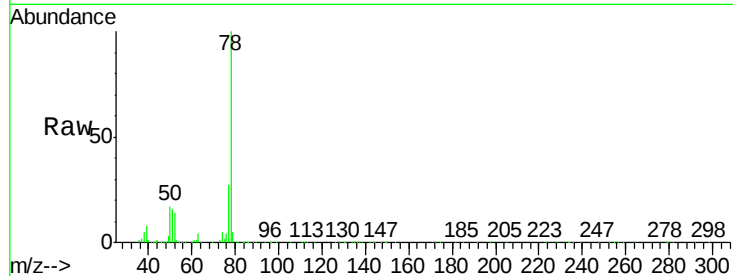
LOQ-SOIL2015-02

Tgt Ion: 78 Resp: 382498

Ion Ratio Lower Upper

78 100

77 26.7 18.6 28.0



#40

Methacrylonitrile

Concen: 9.69 ug/l

RT: 4.67 min Scan# 420

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion: 41 Resp: 33900

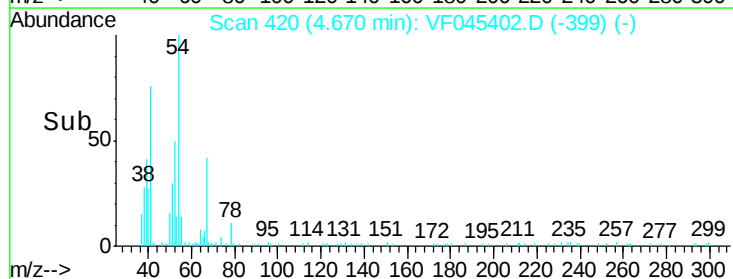
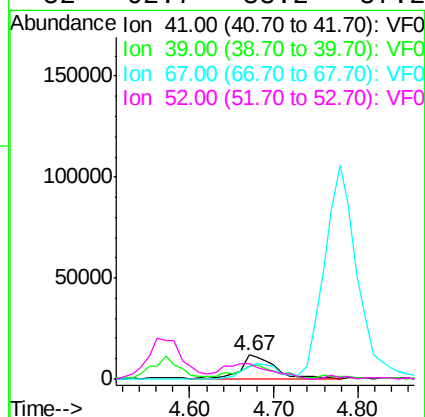
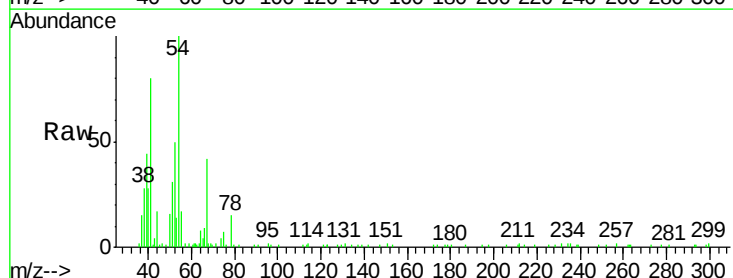
Ion Ratio Lower Upper

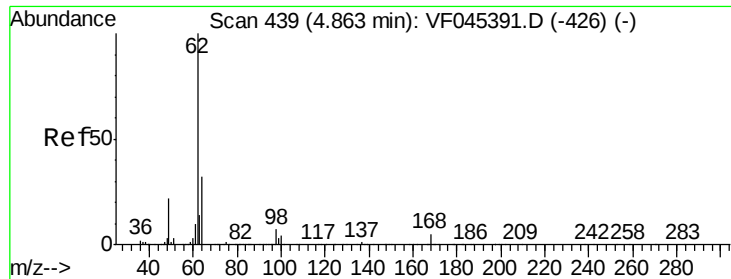
41 100

39 54.7 44.9 67.3

67 52.9 49.0 73.4

52 62.7 38.2 57.2#





#41

1,2-Dichloroethane

Concen: 10.78 ug/l

RT: 4.88 min Scan# 441

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

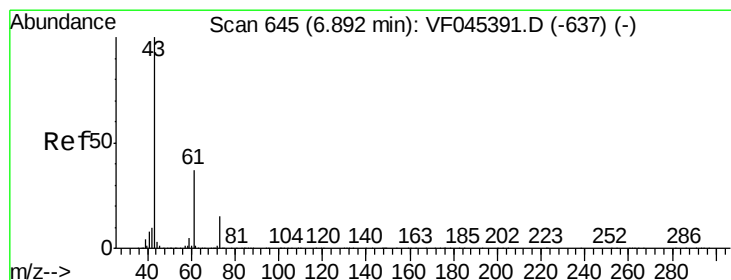
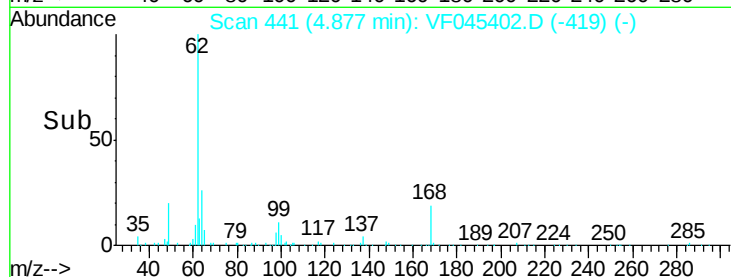
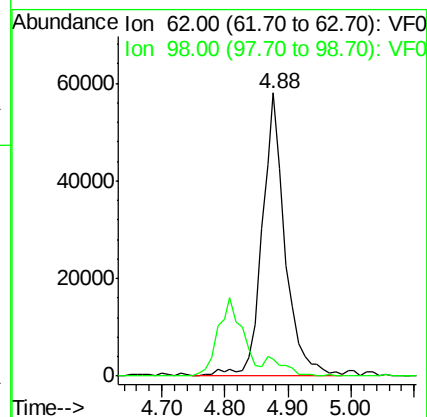
LOQ-SOIL2015-02

Tgt Ion: 62 Resp: 148451

Ion Ratio Lower Upper

62 100

98 6.1 0.0 17.0



#42

Isopropyl Acetate

Concen: 10.64 ug/l

RT: 6.91 min Scan# 647

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

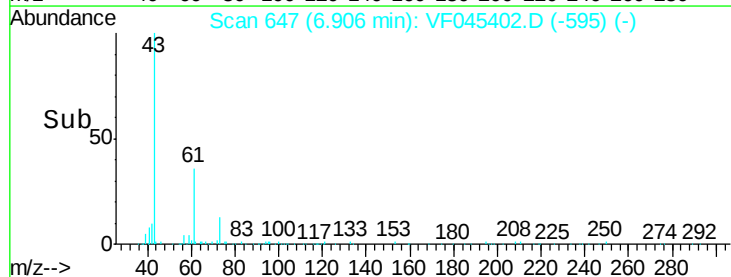
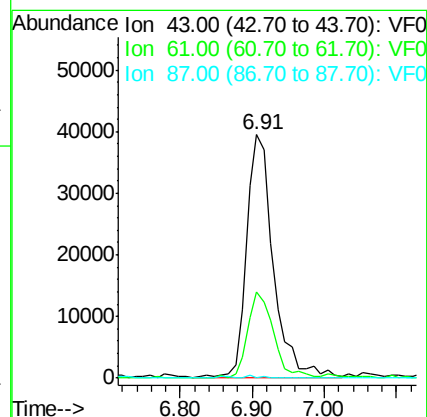
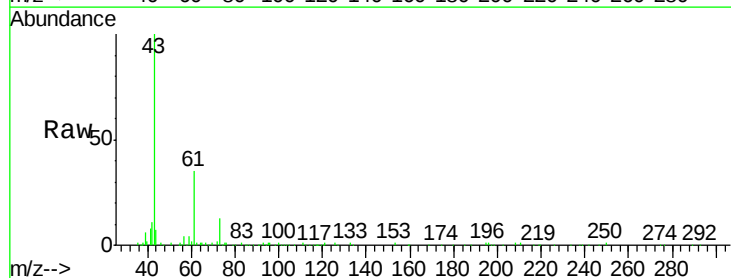
Tgt Ion: 43 Resp: 103546

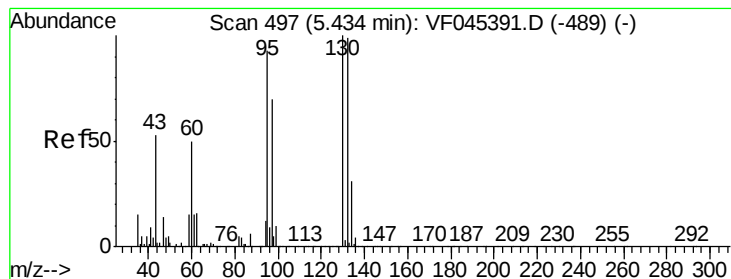
Ion Ratio Lower Upper

43 100

61 35.4 29.8 44.6

87 0.0 0.2 0.2#





#43

Trichloroethene

Concen: 10.24 ug/l

RT: 5.45 min Scan# 499

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

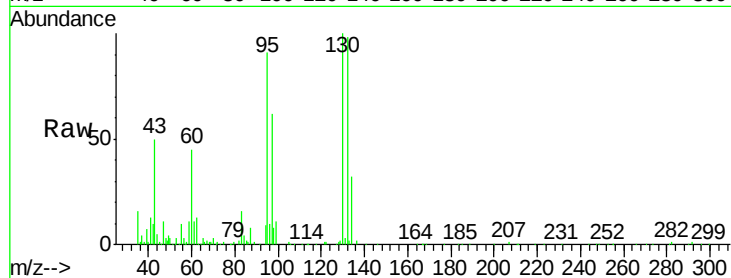
LOQ-SOIL2015-02

Tgt Ion:130 Resp: 119419

Ion Ratio Lower Upper

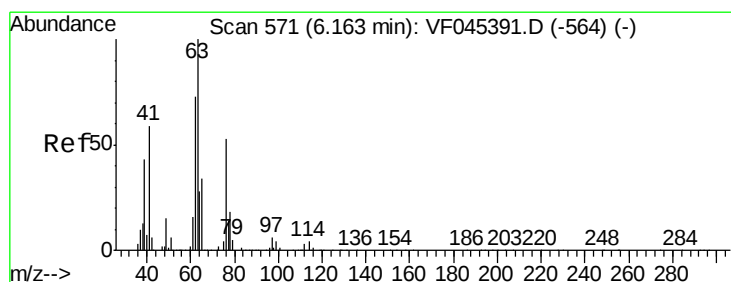
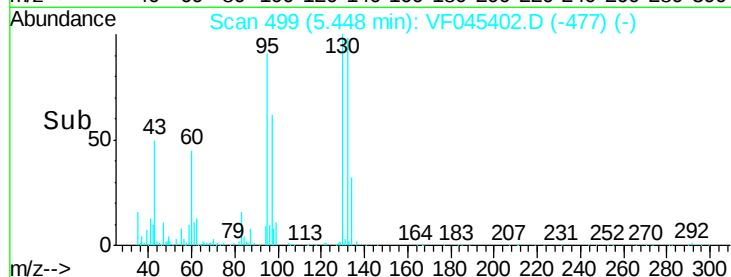
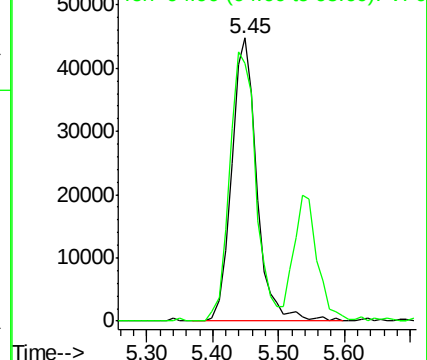
130 100

95 91.2 0.0 192.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#44

1,2-Dichloropropane

Concen: 10.16 ug/l

RT: 6.18 min Scan# 573

Delta R.T. 0.01 min

Lab File: VF045402.D

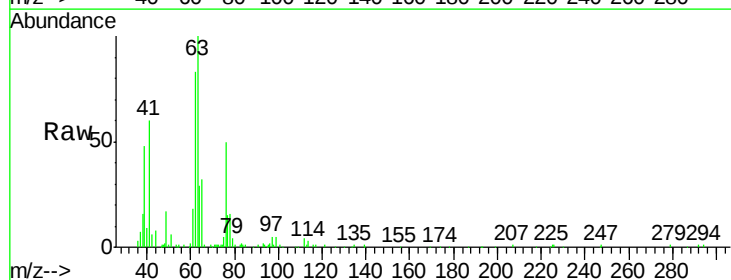
Acq: 16 Sep 2015 21:32

Tgt Ion: 63 Resp: 101069

Ion Ratio Lower Upper

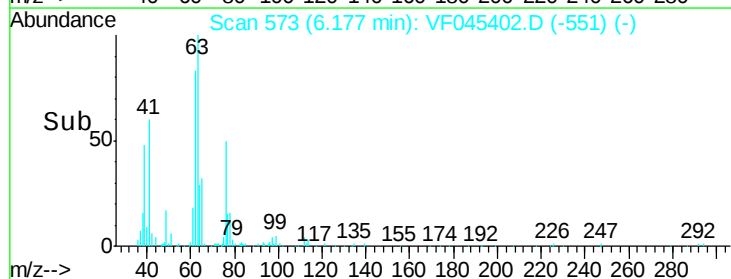
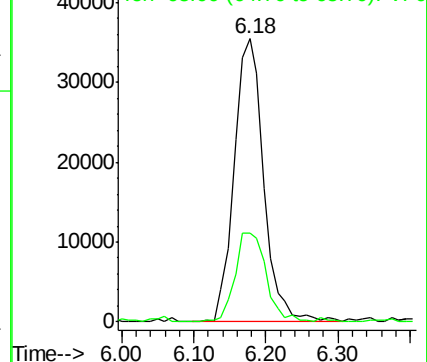
63 100

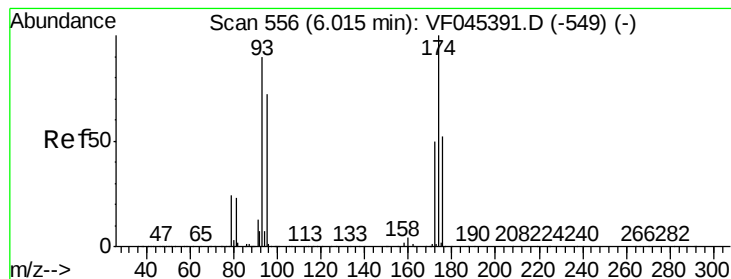
65 31.6 25.6 38.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





#45

Dibromomethane

Concen: 9.93 ug/l

RT: 6.03 min Scan# 558

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

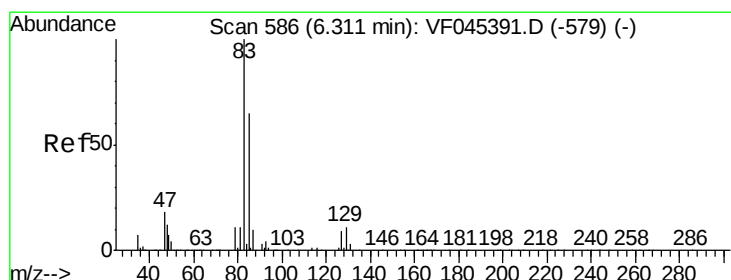
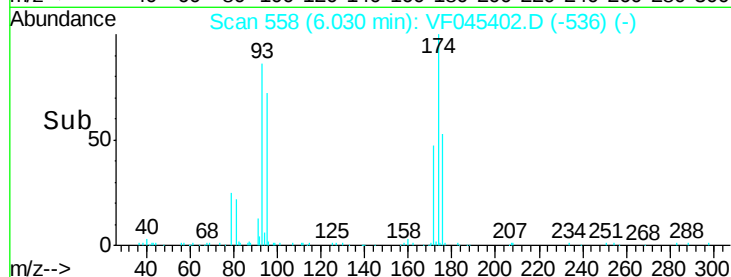
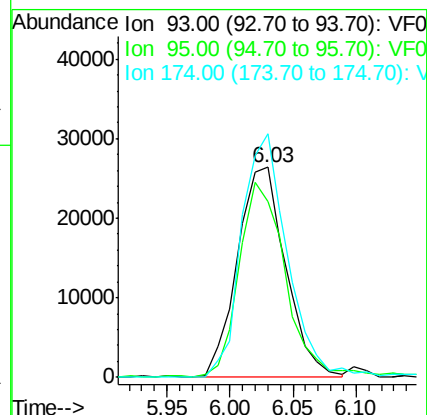
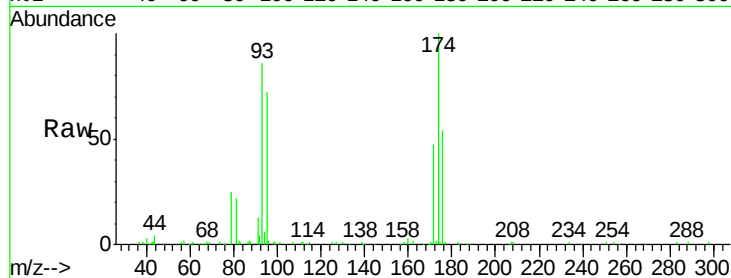
Tgt Ion: 93 Resp: 70266

Ion Ratio Lower Upper

93 100

95 83.7 69.8 104.6

174 117.4 90.5 135.7



#46

Bromodichloromethane

Concen: 10.04 ug/l

RT: 6.33 min Scan# 588

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

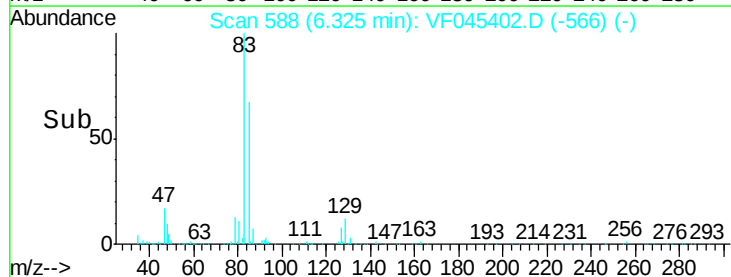
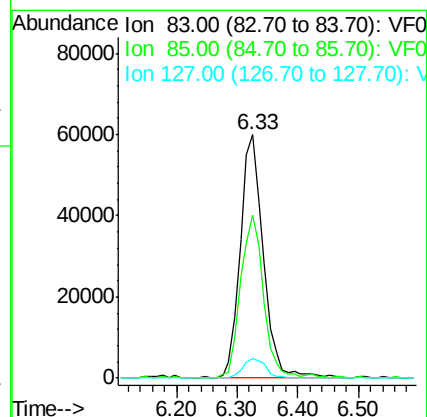
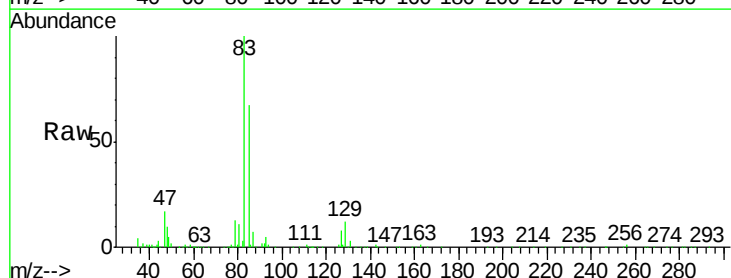
Tgt Ion: 83 Resp: 159064

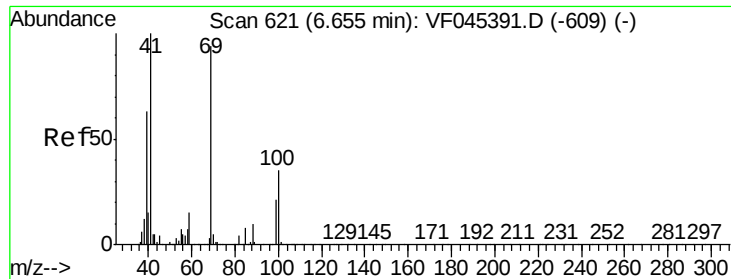
Ion Ratio Lower Upper

83 100

85 66.8 50.6 75.8

127 7.9 7.7 11.5

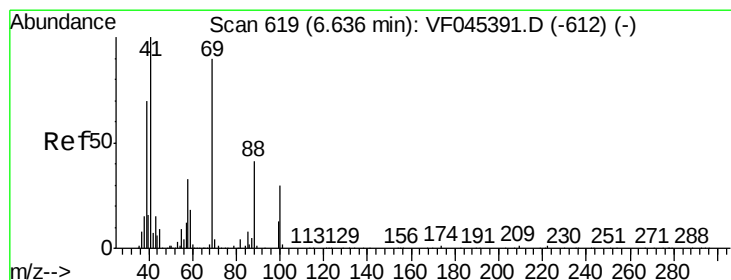
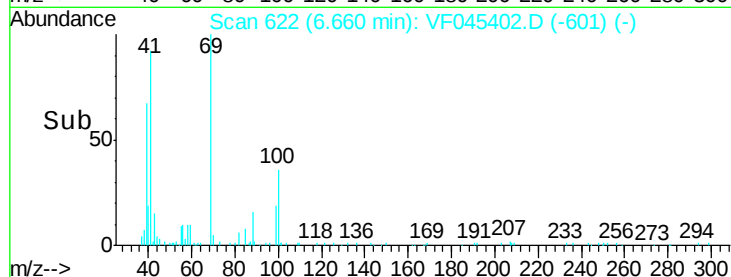
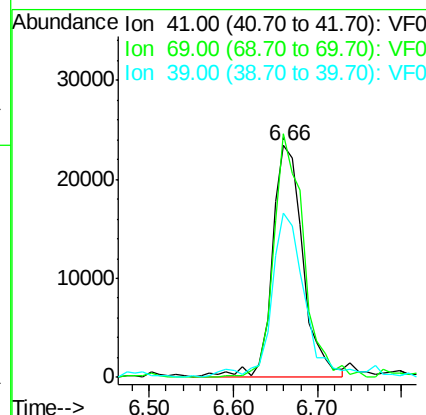
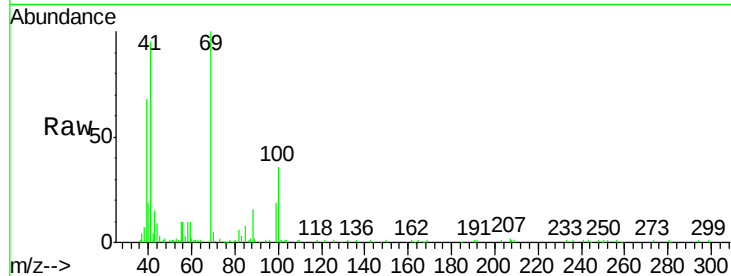




#47
Methyl methacrylate
Concen: 10.17 ug/l
RT: 6.66 min Scan# 622
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

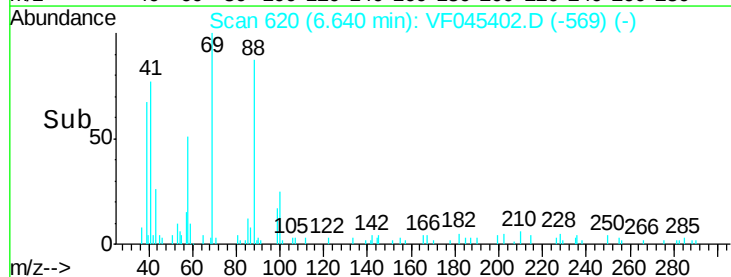
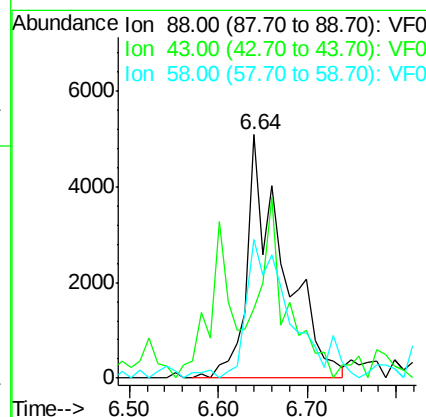
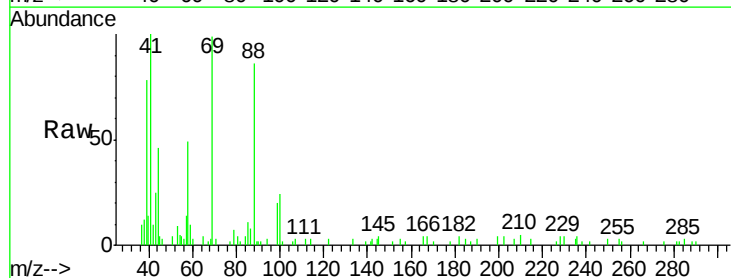
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

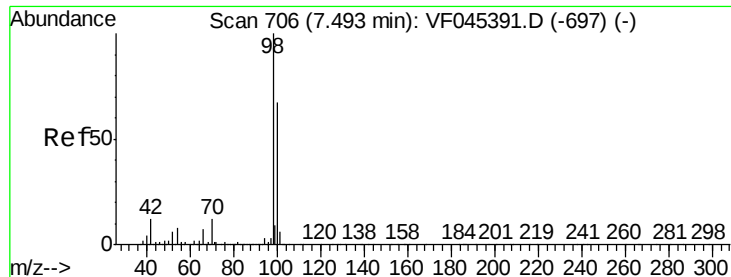
Tgt Ion: 41 Resp: 60076
Ion Ratio Lower Upper
41 100
69 105.2 63.3 94.9#
39 71.1 48.9 73.3



#48
1,4-Dioxane
Concen: 203.05 ug/l
RT: 6.64 min Scan# 620
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion: 88 Resp: 14371
Ion Ratio Lower Upper
88 100
43 28.4 34.5 51.7#
58 56.7 46.5 69.7





#49

Toluene-d8

Concen: 53.76 ug/l

RT: 7.50 min Scan# 707

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

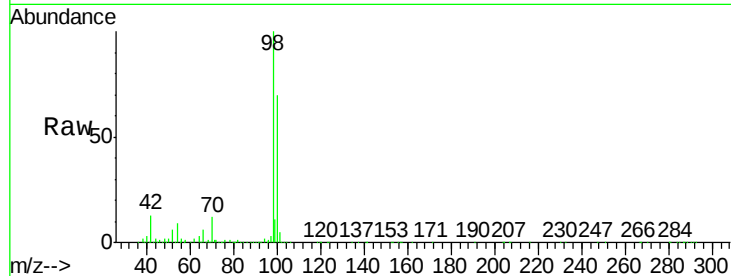
LOQ-SOIL2015-02

Tgt Ion: 98 Resp: 1888338

Ion Ratio Lower Upper

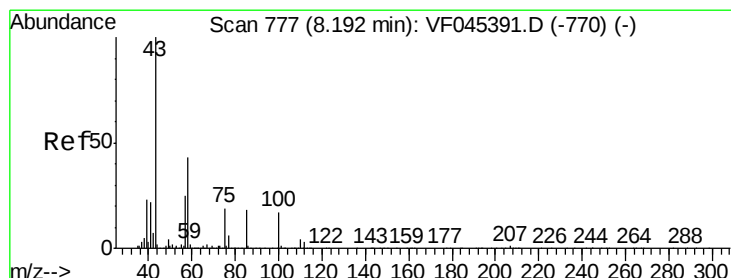
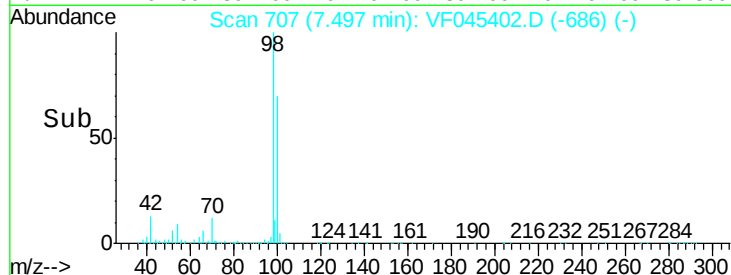
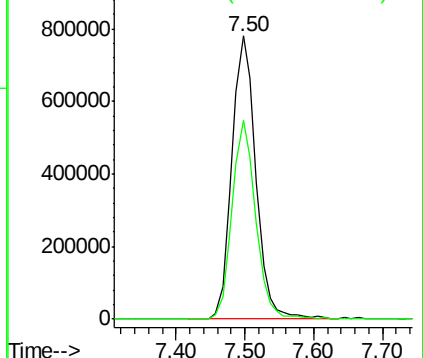
98 100

100 70.1 54.4 81.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#50

4-Methyl-2-Pentanone

Concen: 55.28 ug/l

RT: 8.21 min Scan# 779

Delta R.T. 0.01 min

Lab File: VF045402.D

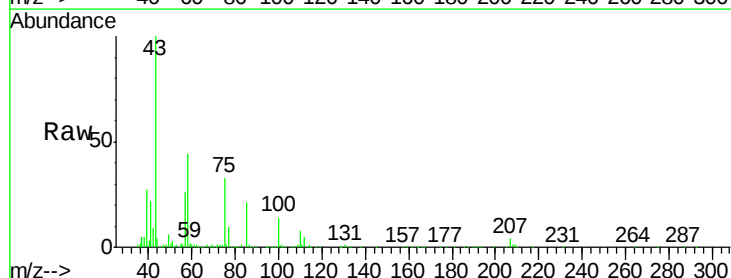
Acq: 16 Sep 2015 21:32

Tgt Ion: 43 Resp: 382665

Ion Ratio Lower Upper

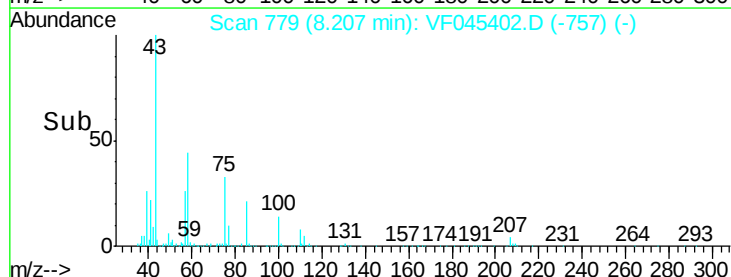
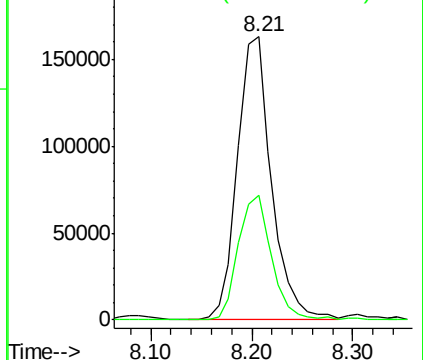
43 100

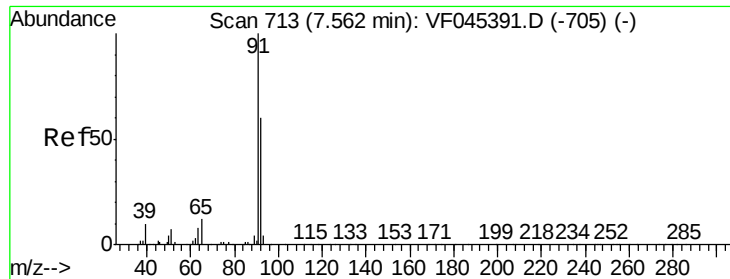
58 44.2 33.6 50.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#51

Toluene

Concen: 10.94 ug/l

RT: 7.57 min Scan# 714

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

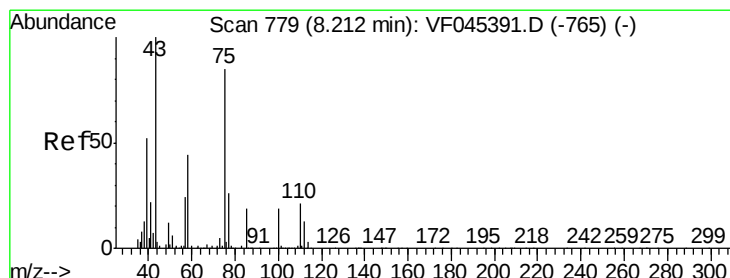
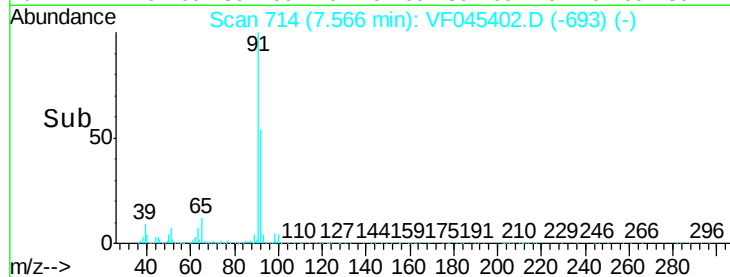
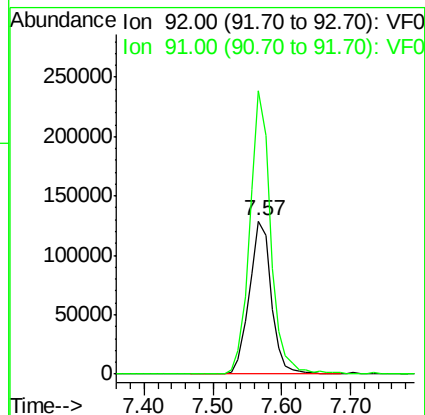
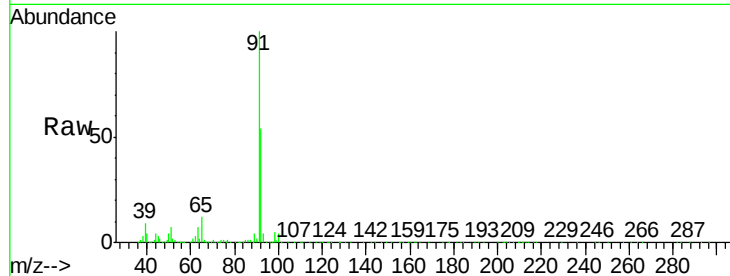
LOQ-SOIL2015-02

Tgt Ion: 92 Resp: 287659

Ion Ratio Lower Upper

92 100

91 184.6 133.4 200.0



#52

t-1,3-Dichloropropene

Concen: 10.15 ug/l

RT: 8.22 min Scan# 780

Delta R.T. 0.00 min

Lab File: VF045402.D

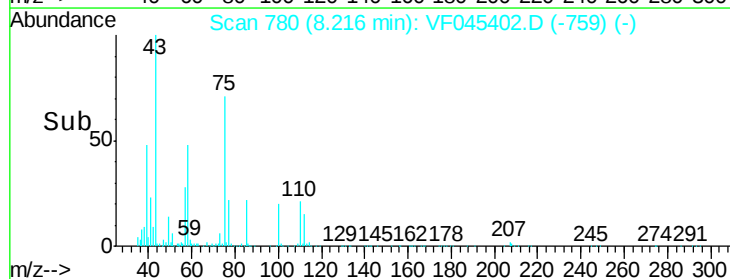
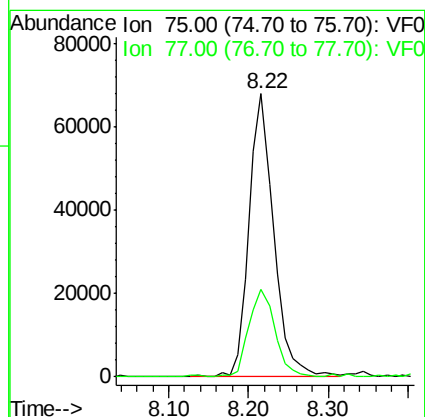
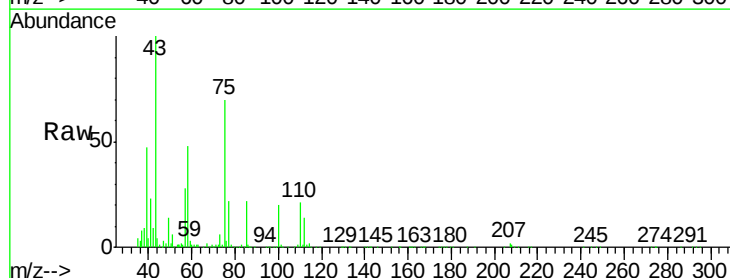
Acq: 16 Sep 2015 21:32

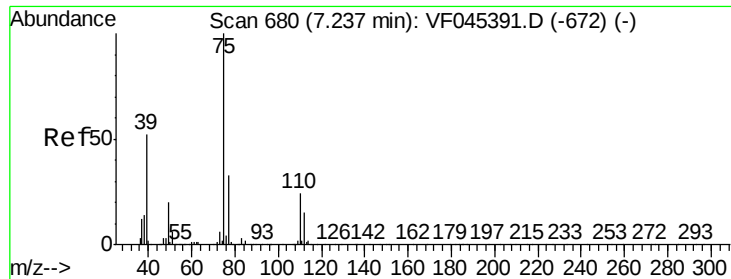
Tgt Ion: 75 Resp: 144606

Ion Ratio Lower Upper

75 100

77 30.7 28.1 42.1





#53

cis-1,3-Dichloropropene

Concen: 10.03 ug/l

RT: 7.24 min Scan# 681

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

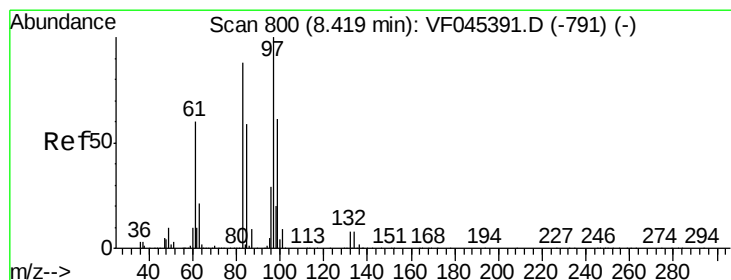
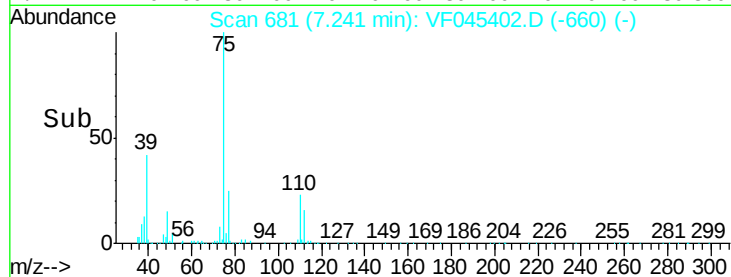
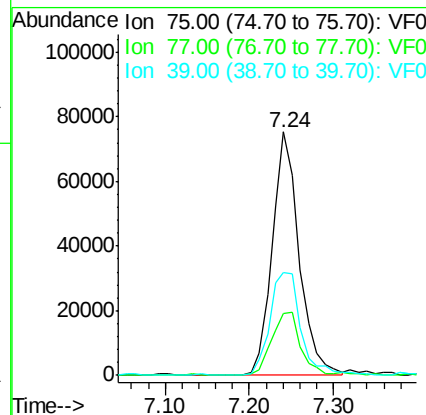
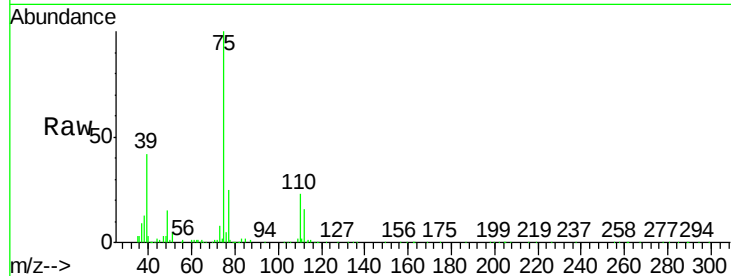
Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

Tgt Ion:	75	Resp:	168690
Ion	Ratio	Lower	Upper
75	100		
77	25.4	25.5	38.3#
39	42.3	41.6	62.4



#54

1,1,2-Trichloroethane

Concen: 10.04 ug/l

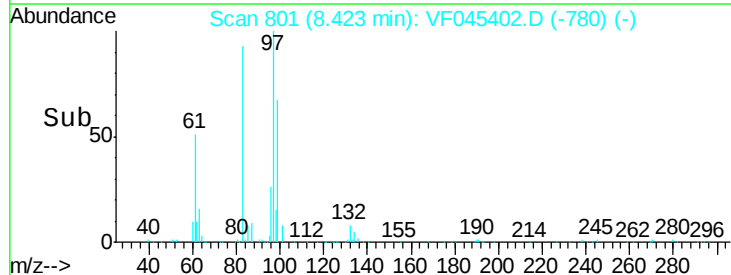
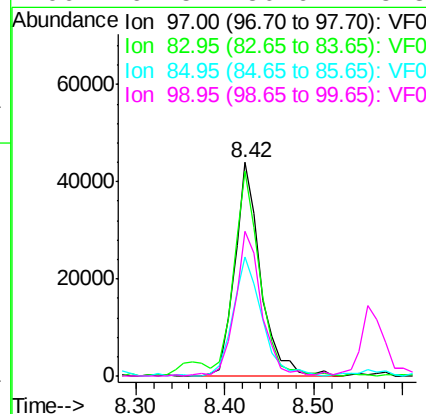
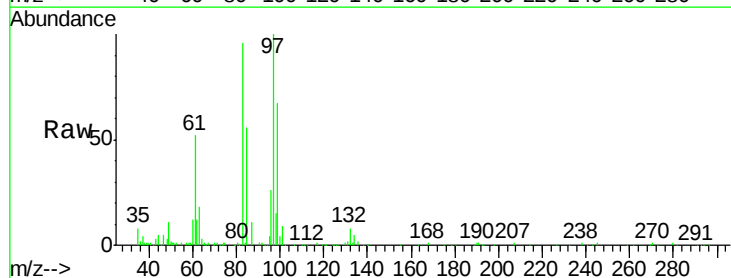
RT: 8.42 min Scan# 801

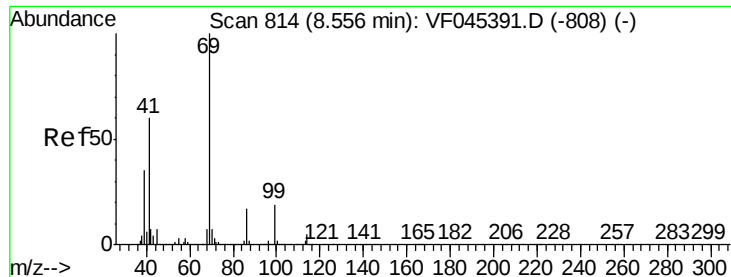
Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion:	97	Resp:	89298
Ion	Ratio	Lower	Upper
97	100		
83	95.7	70.1	105.1
85	55.6	47.4	71.2
99	67.5	50.6	75.8





#55

Ethyl methacrylate

Concen: 10.06 ug/l

RT: 8.57 min Scan# 816

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

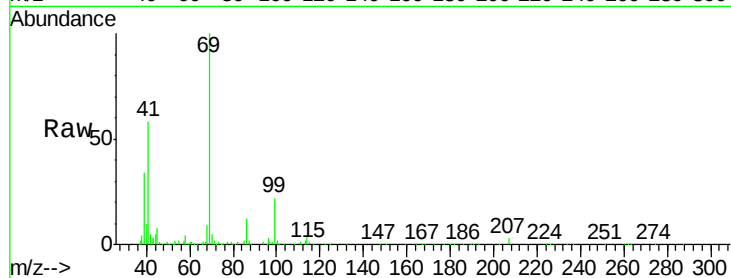
Tgt Ion: 69 Resp: 116435

Ion Ratio Lower Upper

69 100

41 57.6 51.0 76.4

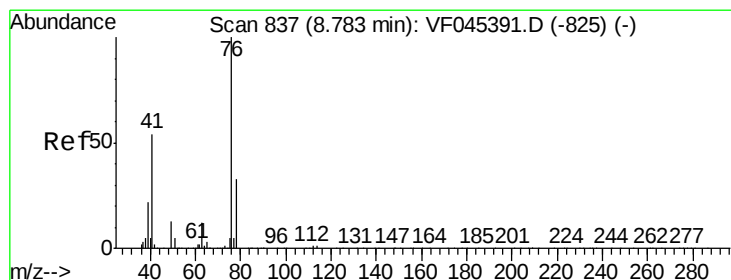
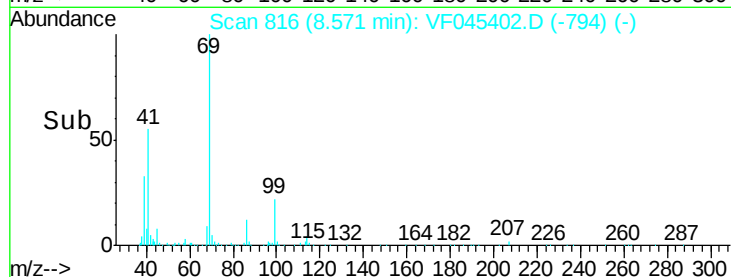
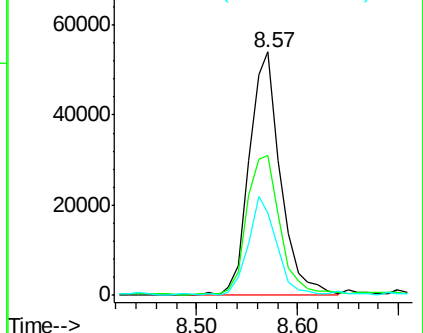
39 33.8 29.1 43.7



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#56

1,3-Dichloropropane

Concen: 11.04 ug/l

RT: 8.79 min Scan# 838

Delta R.T. 0.00 min

Lab File: VF045402.D

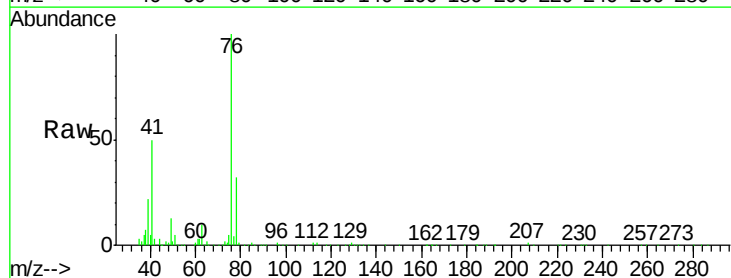
Acq: 16 Sep 2015 21:32

Tgt Ion: 76 Resp: 160244

Ion Ratio Lower Upper

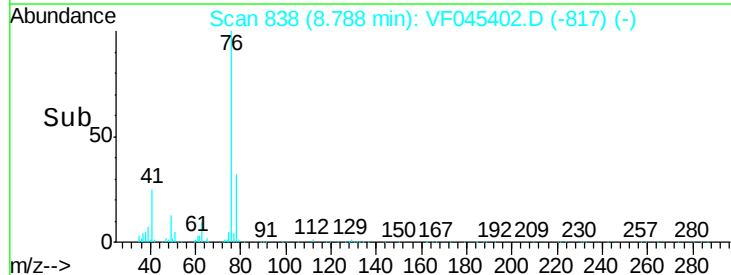
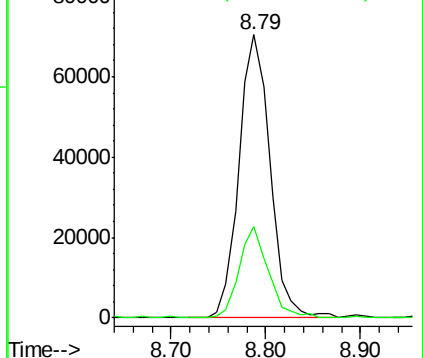
76 100

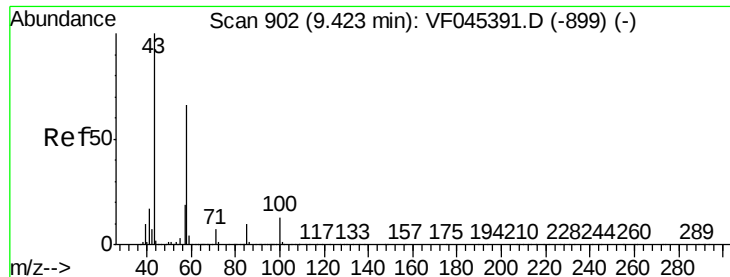
78 32.4 26.1 39.1



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0





#58

2-Hexanone

Concen: 52.77 ug/l

RT: 9.43 min Scan# 903

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

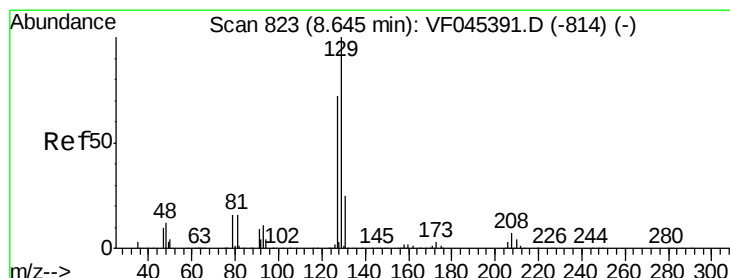
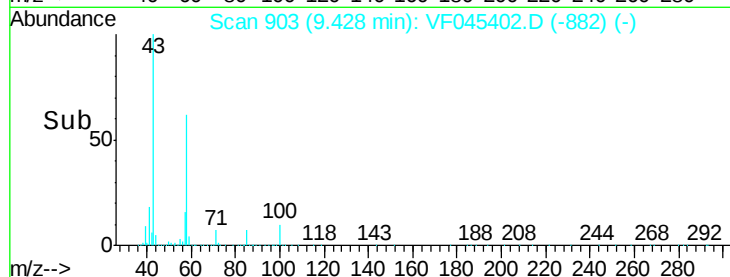
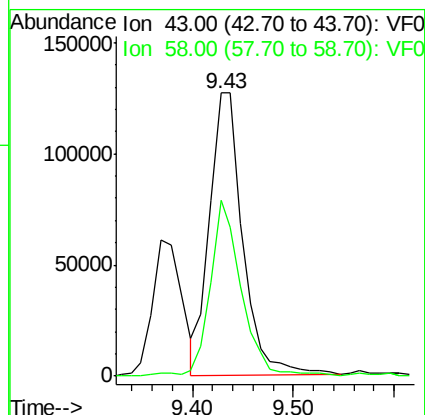
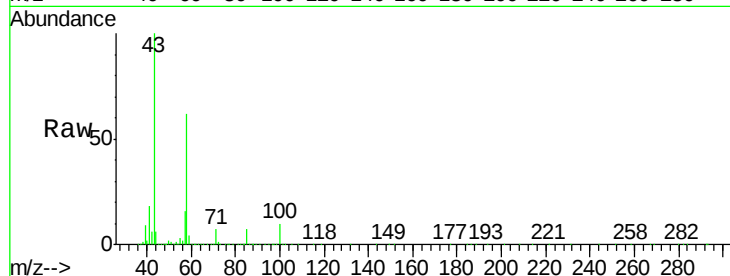
LOQ-SOIL2015-02

Tgt Ion: 43 Resp: 290731

Ion Ratio Lower Upper

43 100

58 62.3 28.8 86.5



#59

Dibromochloromethane

Concen: 9.61 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.00 min

Lab File: VF045402.D

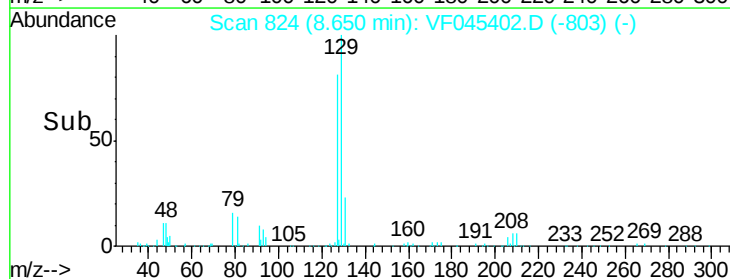
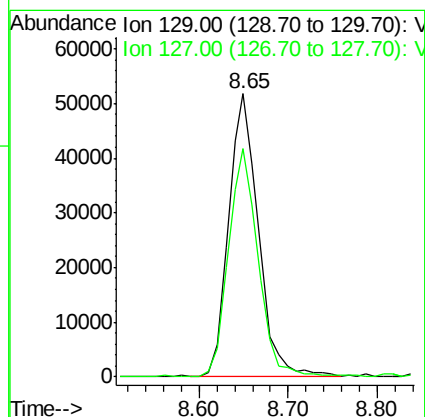
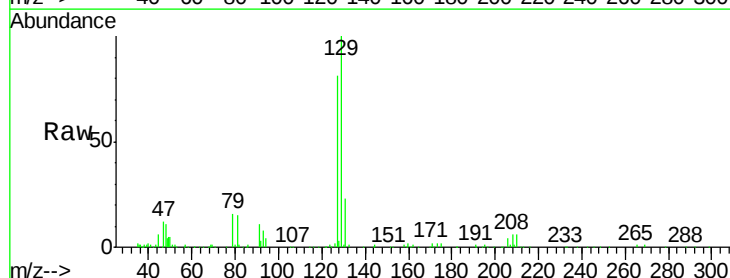
Acq: 16 Sep 2015 21:32

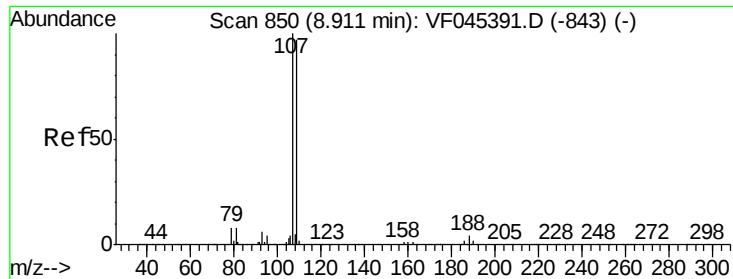
Tgt Ion: 129 Resp: 121151

Ion Ratio Lower Upper

129 100

127 80.7 38.2 114.6





#60

1,2-Dibromoethane

Concen: 10.82 ug/l

RT: 8.92 min Scan# 851

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

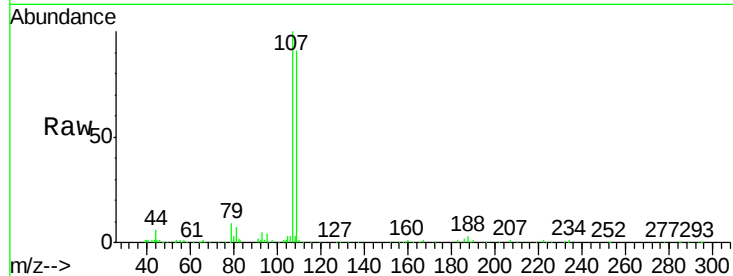
LOQ-SOIL2015-02

Tgt Ion:107 Resp: 109276

Ion Ratio Lower Upper

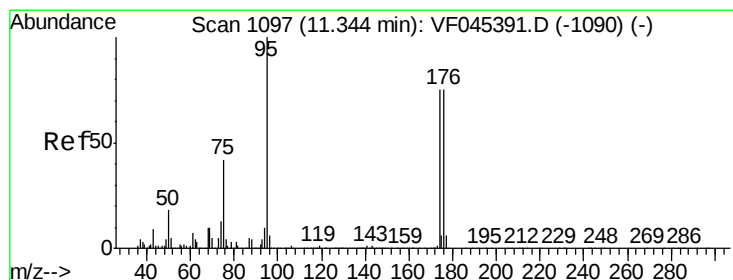
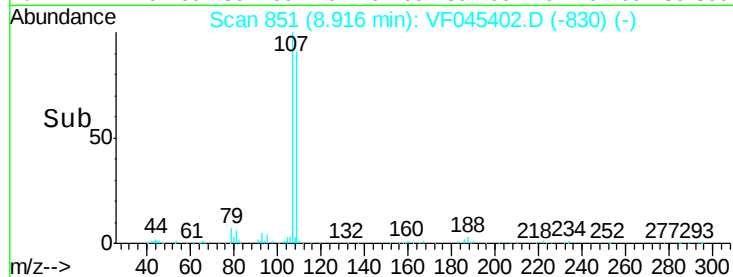
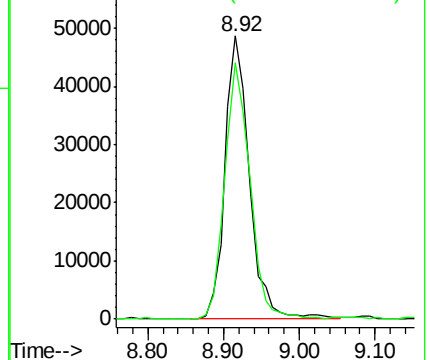
107 100

109 90.6 79.4 119.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#61

4-Bromofluorobenzene

Concen: 53.38 ug/l

RT: 11.35 min Scan# 1098

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

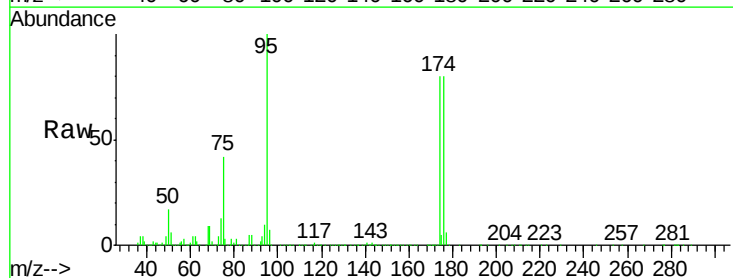
Tgt Ion: 95 Resp: 901212

Ion Ratio Lower Upper

95 100

174 79.9 0.0 177.8

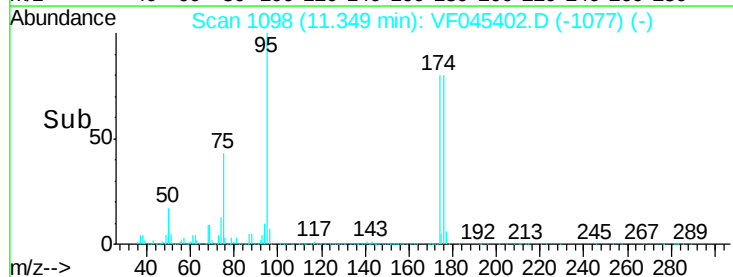
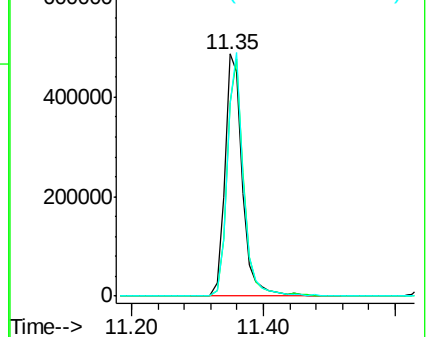
176 79.7 0.0 176.2

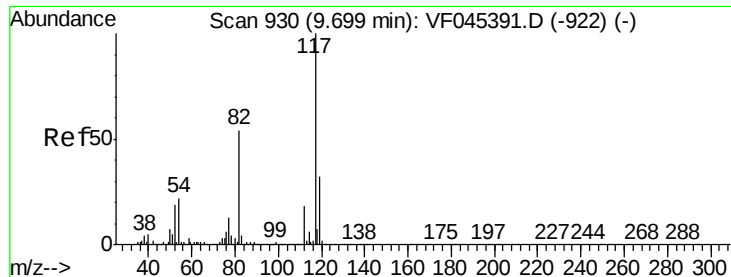


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#62

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.70 min Scan# 931

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

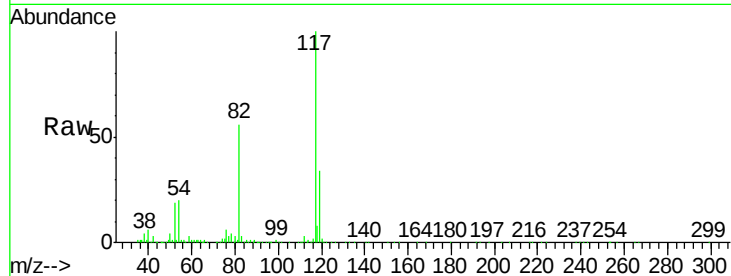
Tgt Ion:117 Resp: 1476390

Ion Ratio Lower Upper

117 100

82 56.0 45.0 67.6

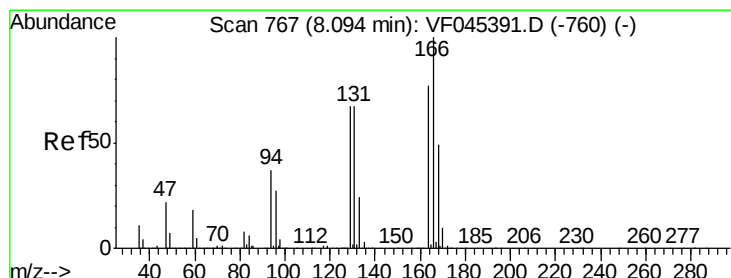
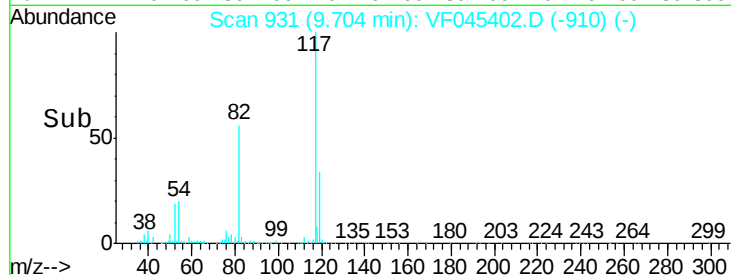
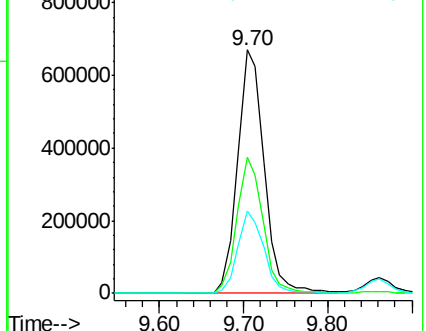
119 33.6 26.2 39.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#63

Tetrachloroethene

Concen: 11.45 ug/l

RT: 8.10 min Scan# 768

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion:164 Resp: 134261

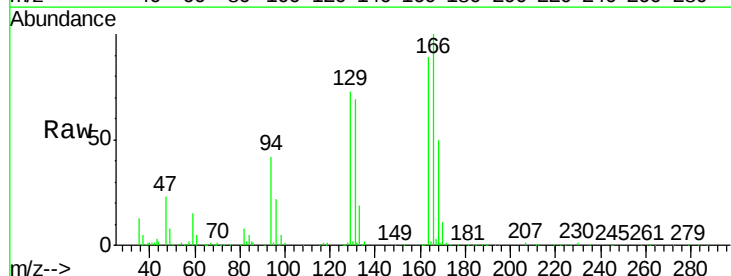
Ion Ratio Lower Upper

164 100

166 112.7 106.0 159.0

129 82.1 69.8 104.6

131 77.3 68.2 102.4

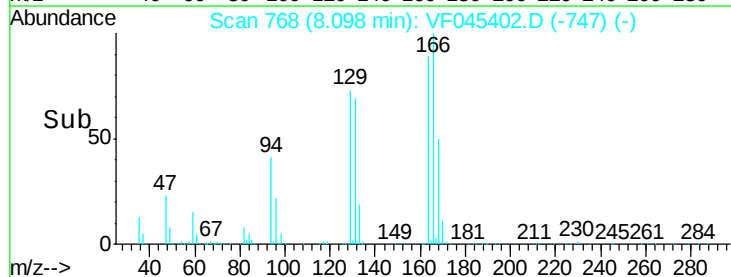
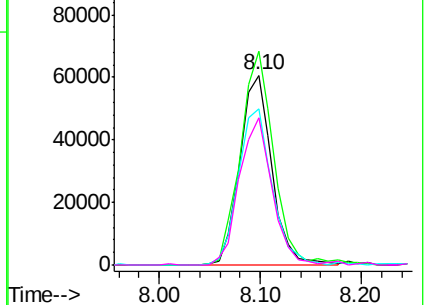


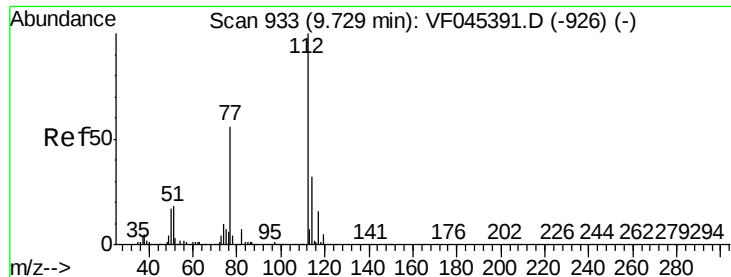
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#64

Chlorobenzene

Concen: 11.25 ug/l

RT: 9.73 min Scan# 934

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

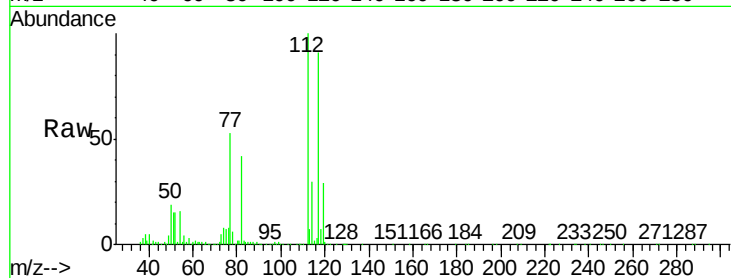
LOQ-SOIL2015-02

Tgt Ion:112 Resp: 348441

Ion Ratio Lower Upper

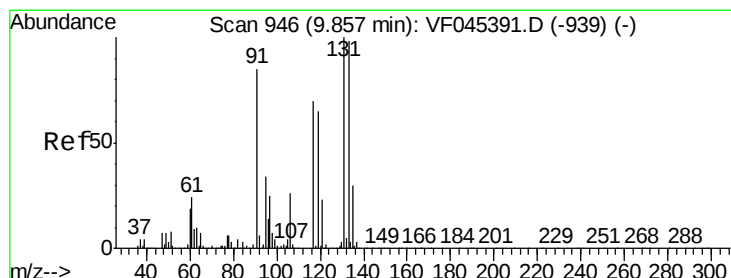
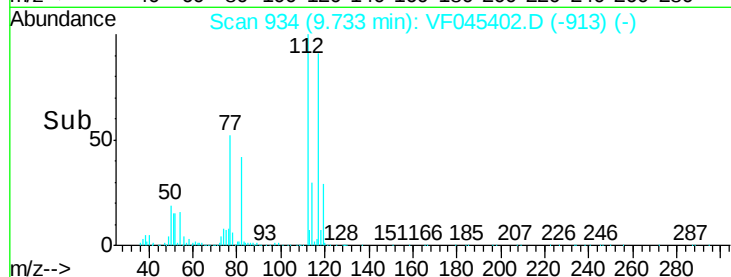
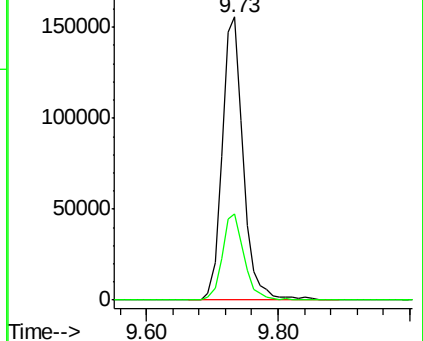
112 100

114 30.3 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#65

1,1,1,2-Tetrachloroethane

Concen: 10.66 ug/l

RT: 9.86 min Scan# 947

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

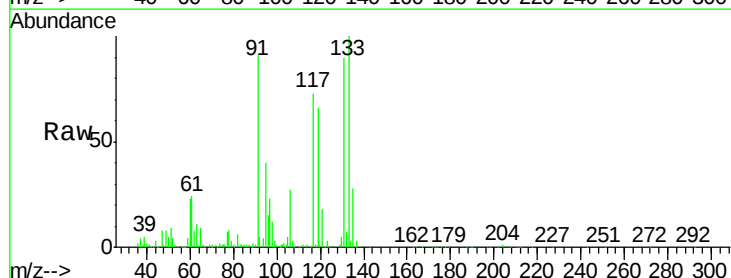
Tgt Ion:131 Resp: 120738

Ion Ratio Lower Upper

131 100

133 110.8 48.1 144.4

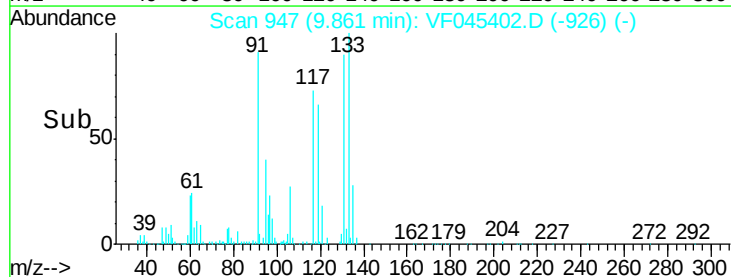
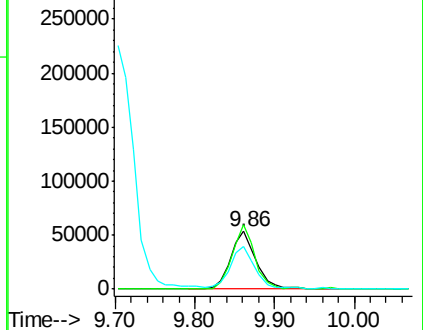
119 72.9 34.8 104.5

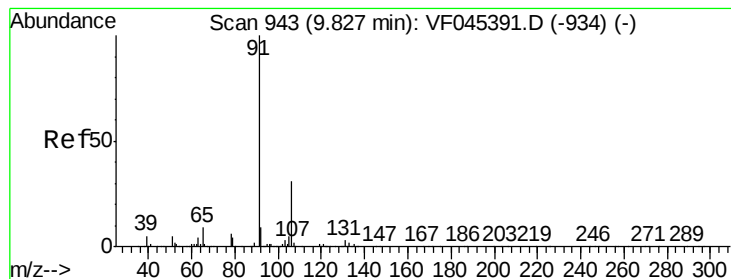


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#66

Ethyl Benzene

Concen: 11.53 ug/l

RT: 9.83 min Scan# 944

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

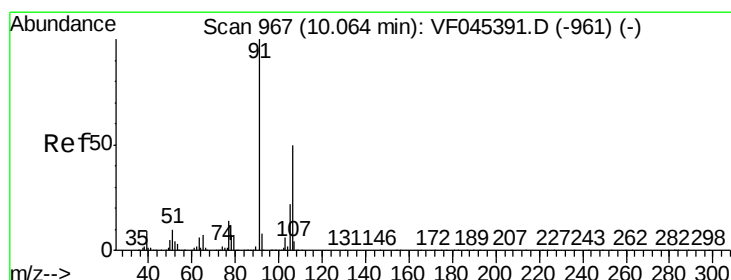
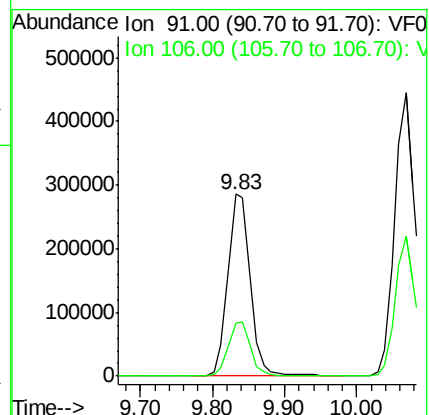
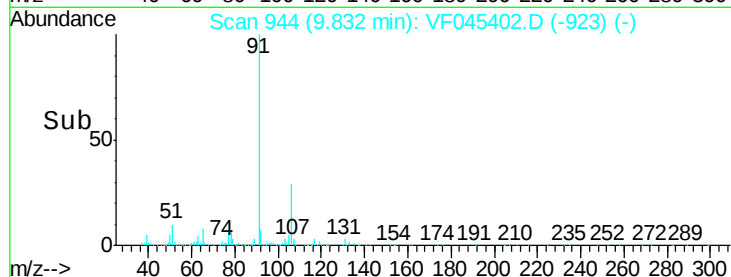
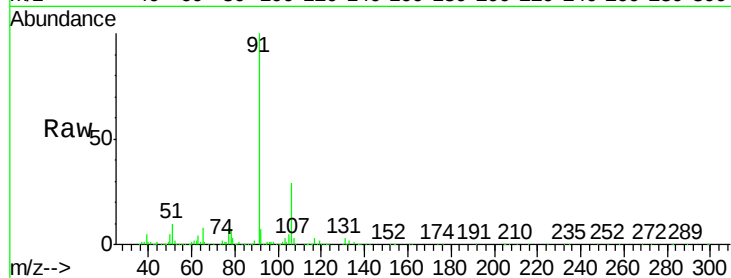
LOQ-SOIL2015-02

Tgt Ion: 91 Resp: 618580

Ion Ratio Lower Upper

91 100

106 29.2 23.6 35.4



#67

m/p-Xylenes

Concen: 23.27 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.00 min

Lab File: VF045402.D

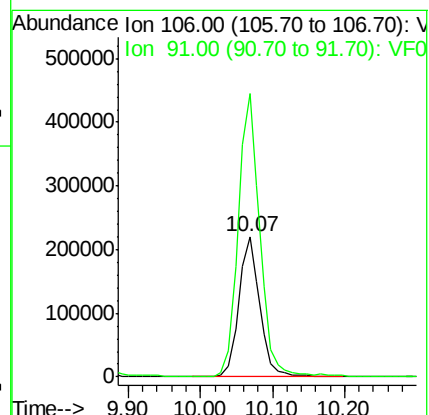
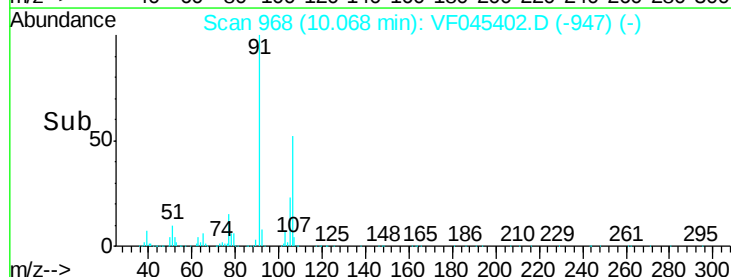
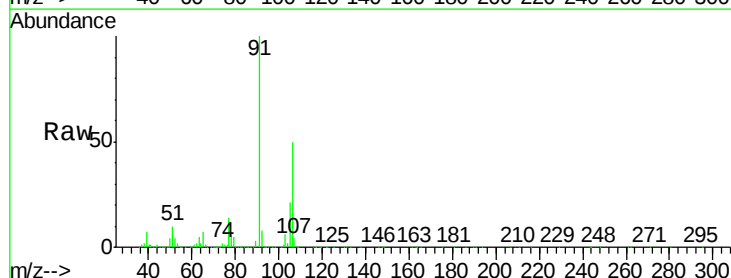
Acq: 16 Sep 2015 21:32

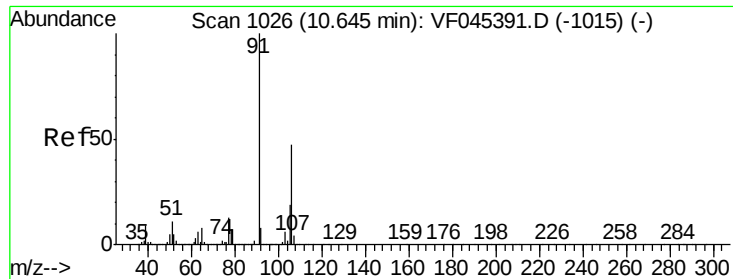
Tgt Ion: 106 Resp: 447566

Ion Ratio Lower Upper

106 100

91 201.4 166.1 249.1

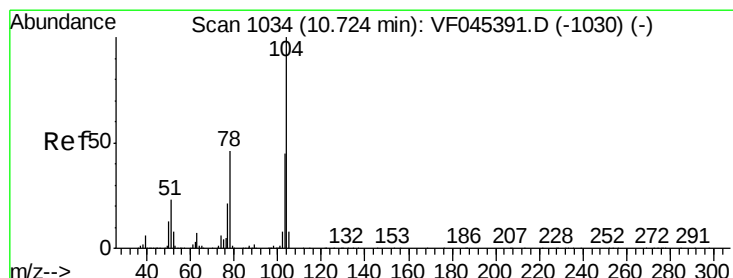
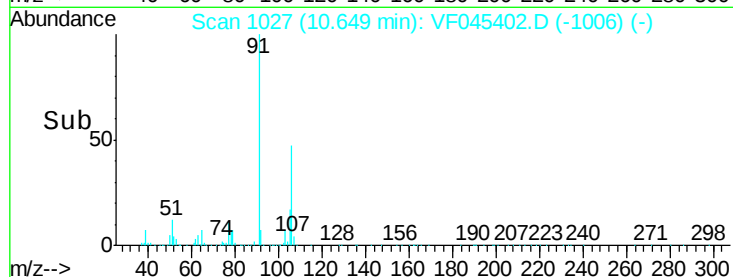
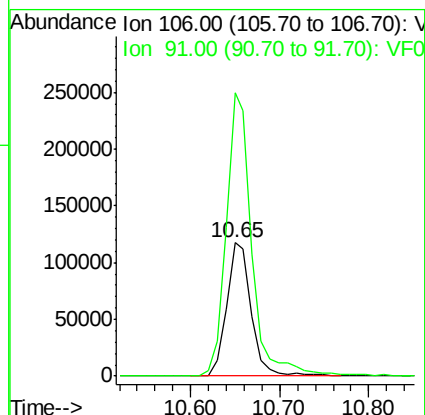
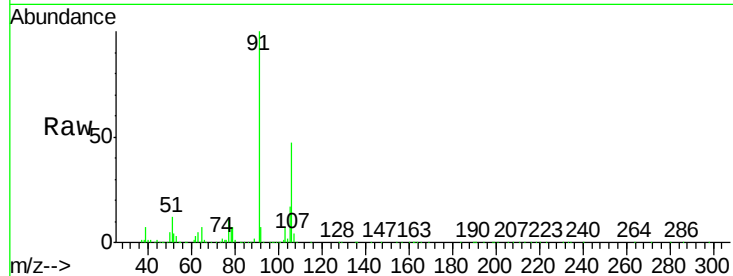




#68
o-Xylene
Concen: 11.55 ug/l
RT: 10.65 min Scan# 1027
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

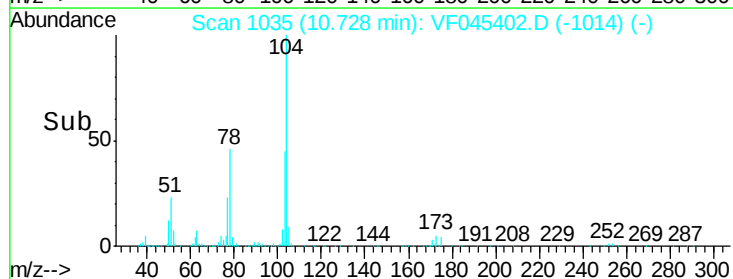
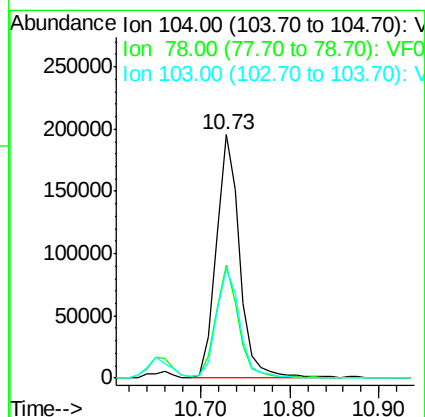
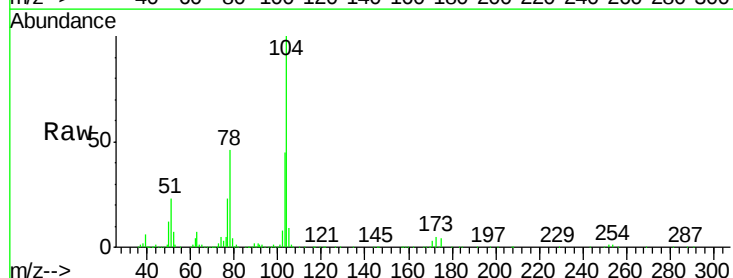
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

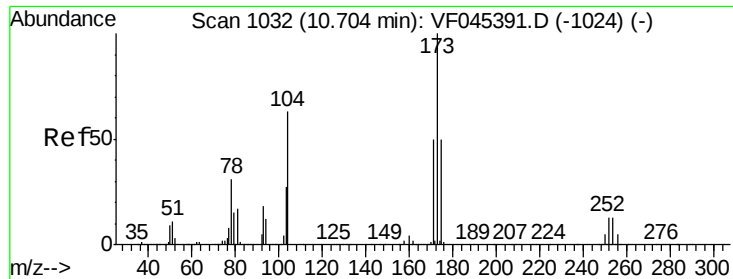
Tgt Ion:106 Resp: 230644
Ion Ratio Lower Upper
106 100
91 212.0 108.1 324.2



#69
Styrene
Concen: 11.17 ug/l
RT: 10.73 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion:104 Resp: 355906
Ion Ratio Lower Upper
104 100
78 46.3 34.2 51.4
103 45.0 36.7 55.1





#70

Bromoform

Concen: 9.92 ug/l

RT: 10.71 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

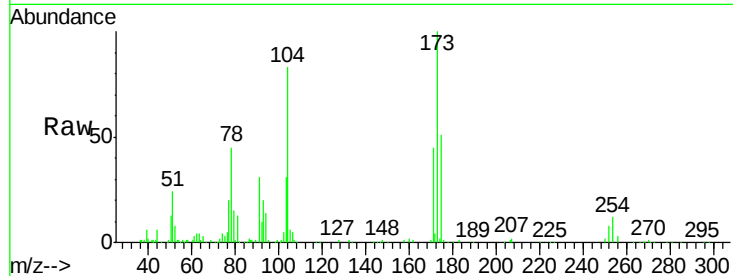
Tgt Ion:173 Resp: 83353

Ion Ratio Lower Upper

173 100

175 50.8 25.7 77.0

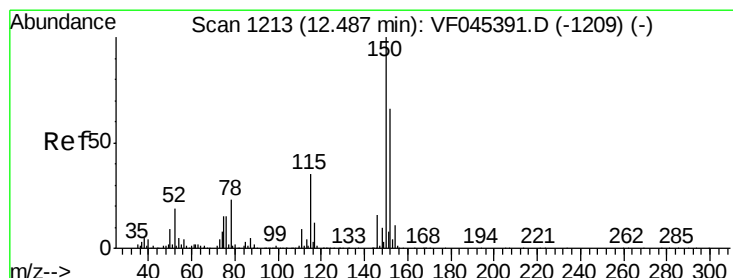
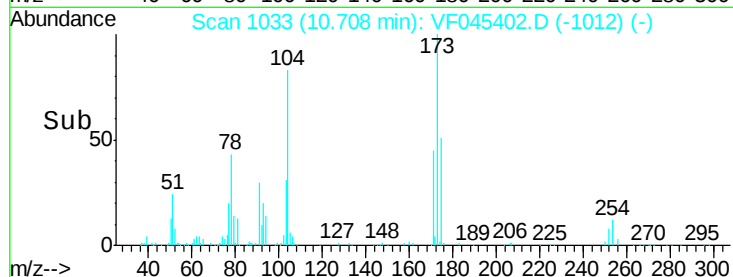
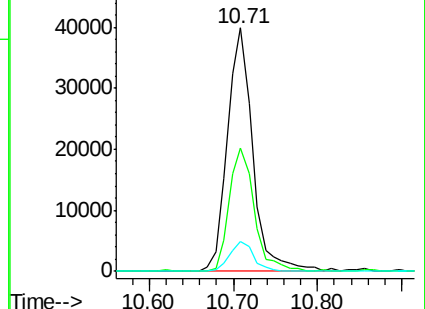
254 12.1 9.8 14.6



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#71

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.49 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

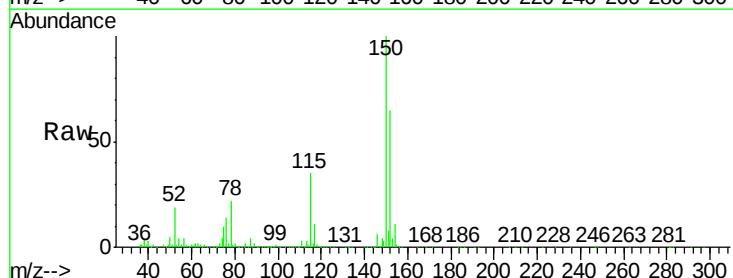
Tgt Ion:152 Resp: 839518

Ion Ratio Lower Upper

152 100

115 54.0 28.3 85.0

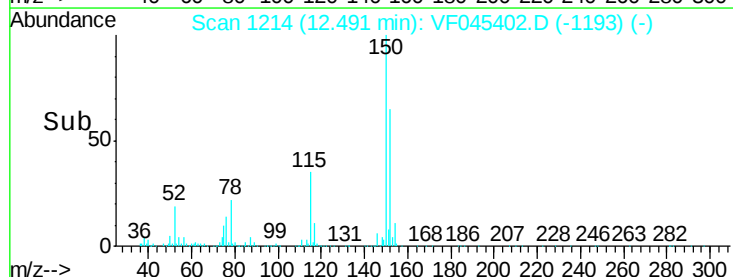
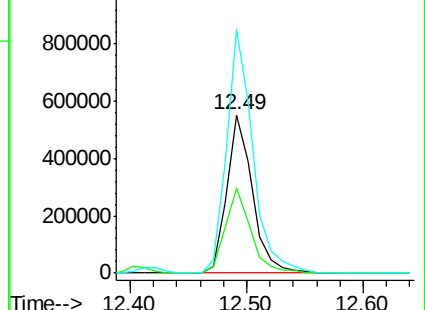
150 154.2 0.0 324.2

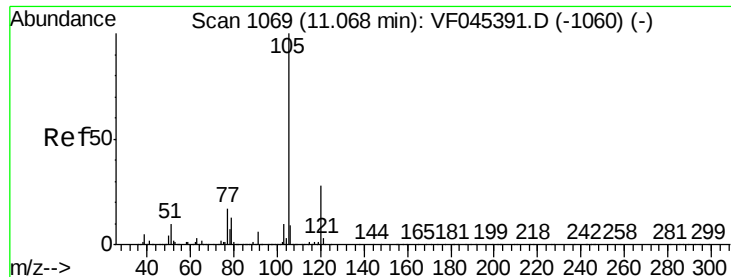


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#72

Isopropylbenzene

Concen: 11.32 ug/l

RT: 11.07 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

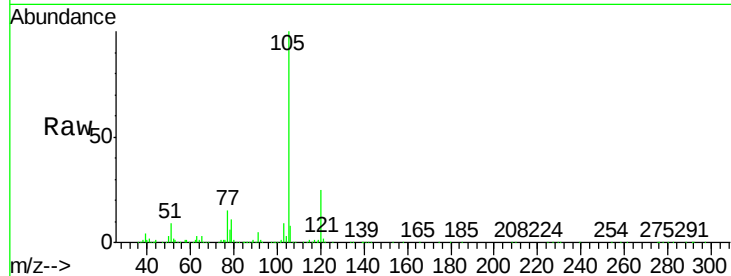
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Tgt Ion: 105 Resp: 636953

Ion Ratio Lower Upper

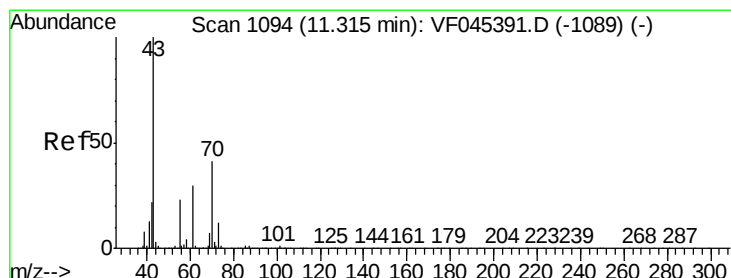
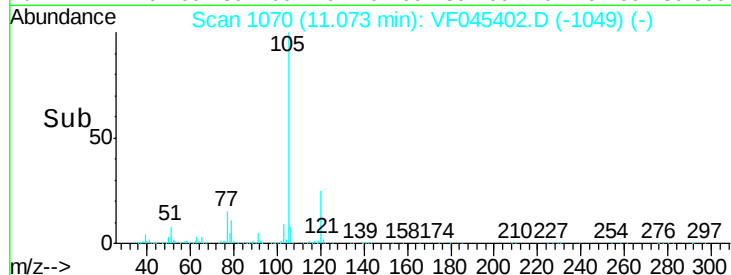
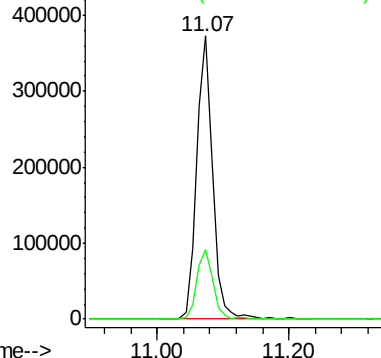
105 100

120 24.5 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#73

N-ethyl acetate

Concen: 10.18 ug/l

RT: 11.32 min Scan# 1095

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion: 43 Resp: 158715

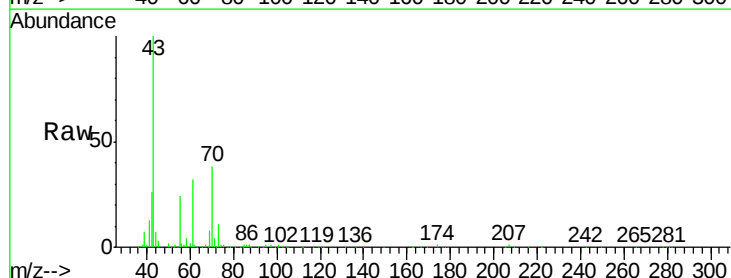
Ion Ratio Lower Upper

43 100

70 38.1 30.0 45.0

55 24.0 16.8 25.2

61 31.8 20.6 30.8#

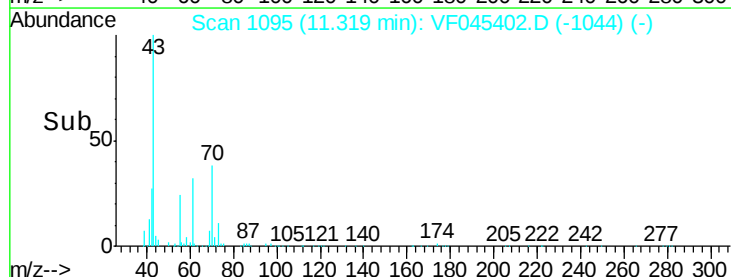
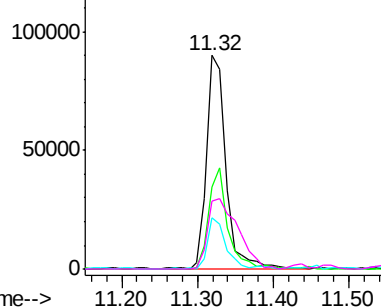


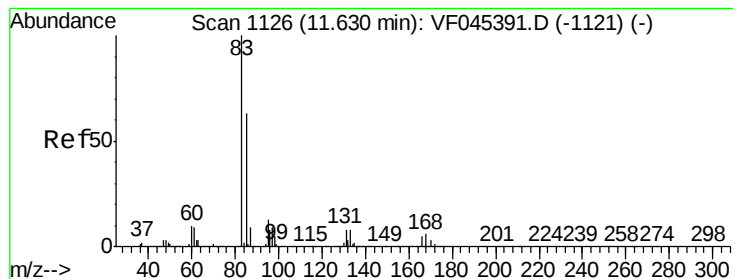
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#74

1,1,2,2-Tetrachloroethane

Concen: 10.40 ug/l

RT: 11.63 min Scan# 1127

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

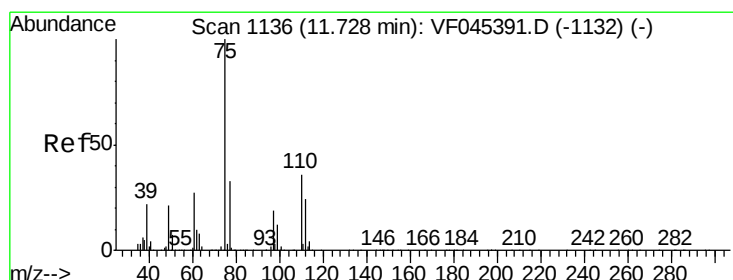
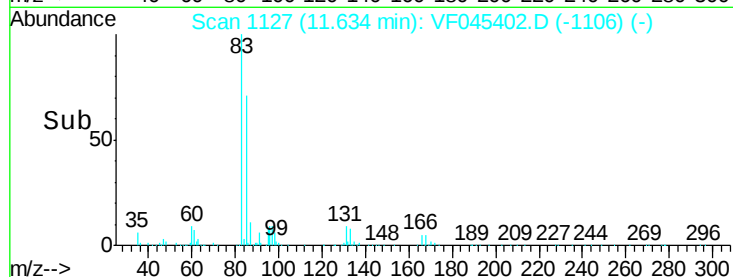
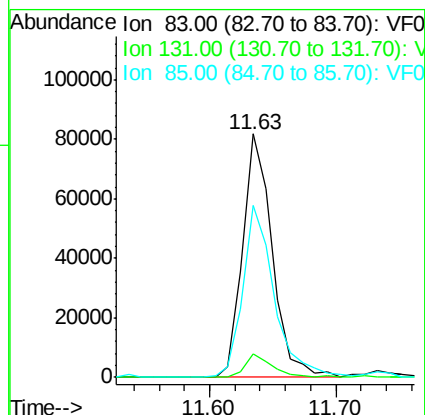
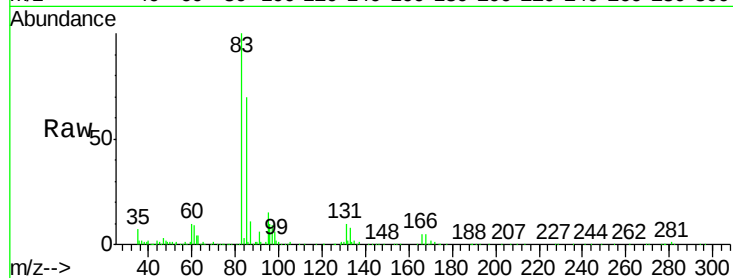
Tgt Ion: 83 Resp: 132590

Ion Ratio Lower Upper

83 100

131 9.6 4.2 12.6

85 70.5 32.5 97.5



#75

1,2,3-Trichloropropane

Concen: 10.99 ug/l

RT: 11.73 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VF045402.D

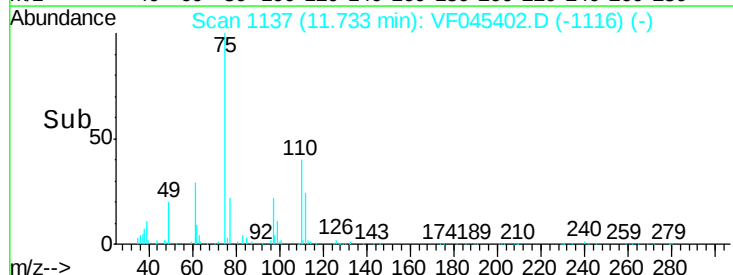
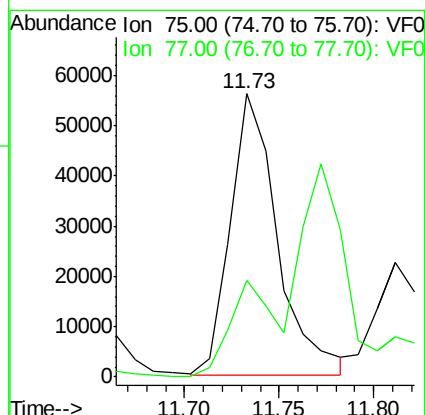
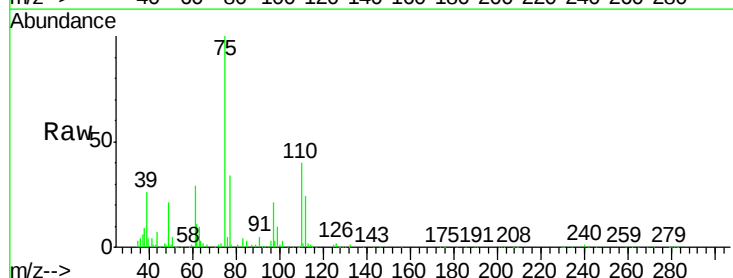
Acq: 16 Sep 2015 21:32

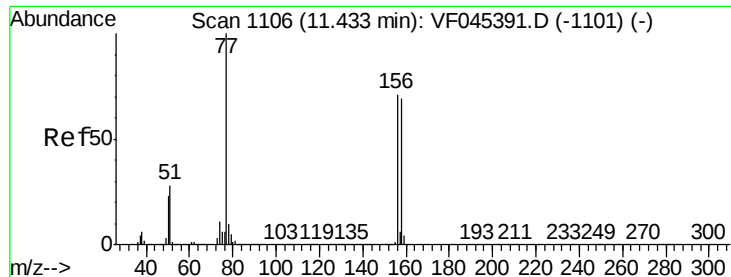
Tgt Ion: 75 Resp: 96341

Ion Ratio Lower Upper

75 100

77 33.9 15.0 45.1





#76

Bromobenzene

Concen: 10.85 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

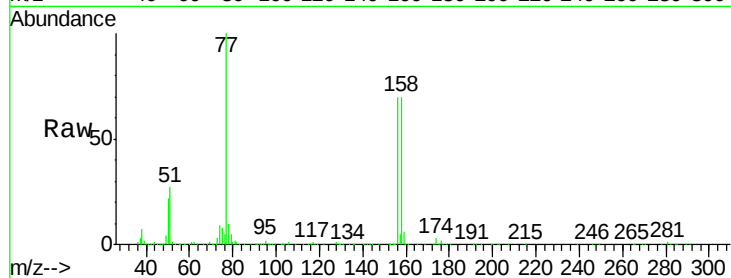
Tgt Ion: 156 Resp: 173116

Ion Ratio Lower Upper

156 100

77 143.1 74.8 224.3

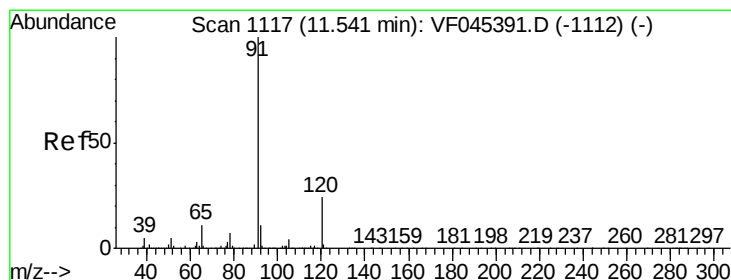
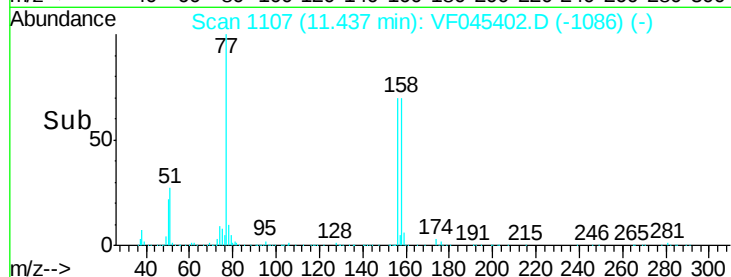
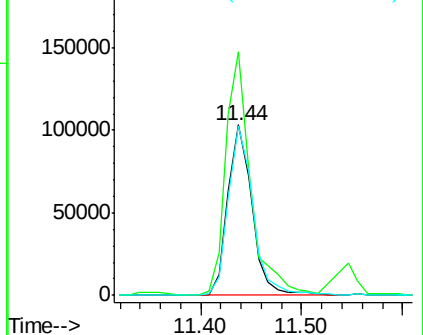
158 99.9 49.5 148.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#77

n-propylbenzene

Concen: 11.43 ug/l

RT: 11.55 min Scan# 1118

Delta R.T. 0.00 min

Lab File: VF045402.D

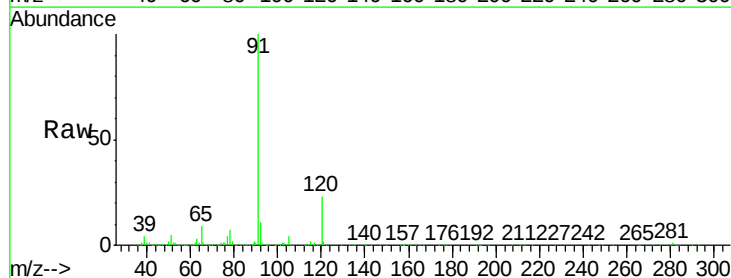
Acq: 16 Sep 2015 21:32

Tgt Ion: 91 Resp: 798143

Ion Ratio Lower Upper

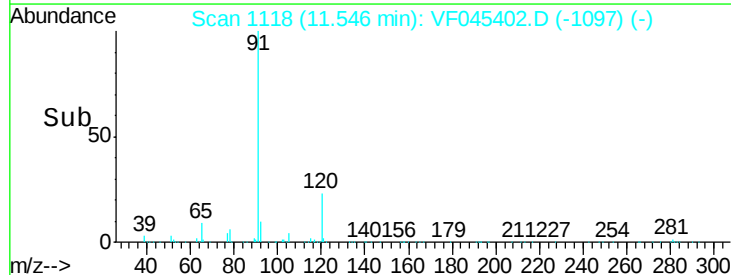
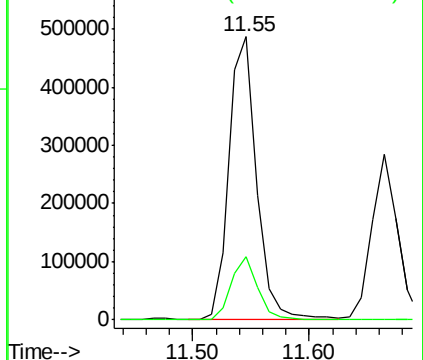
91 100

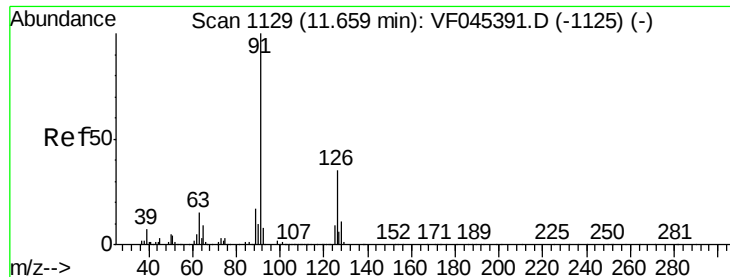
120 22.5 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#78

2-Chlorotoluene

Concen: 11.12 ug/l

RT: 11.66 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

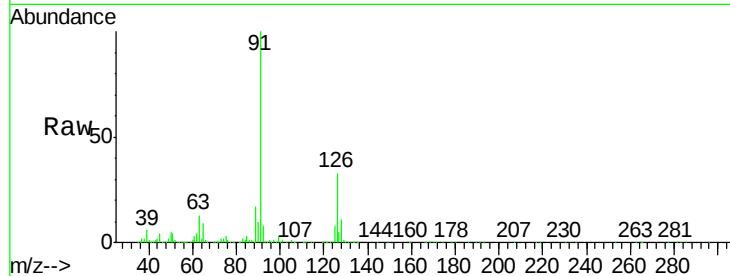
LOQ-SOIL2015-02

Tgt Ion: 91 Resp: 434264

Ion Ratio Lower Upper

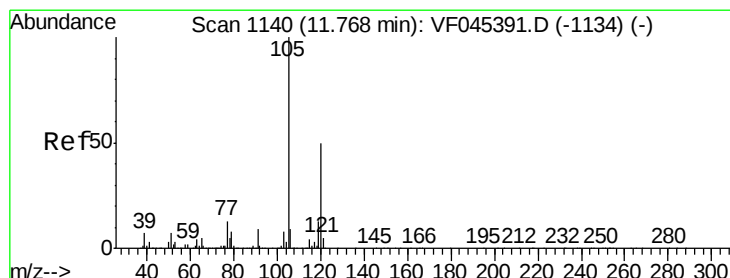
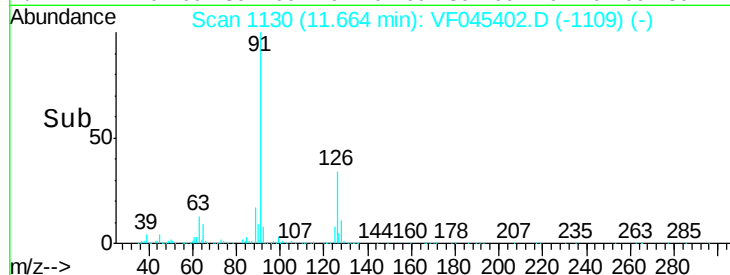
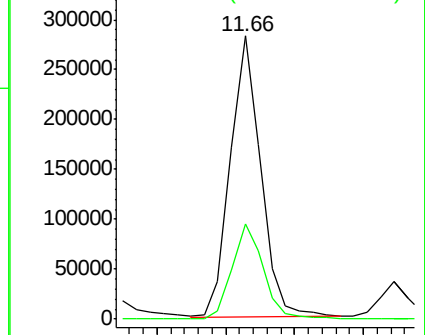
91 100

126 33.4 16.9 50.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#79

1,3,5-Trimethylbenzene

Concen: 11.29 ug/l

RT: 11.77 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VF045402.D

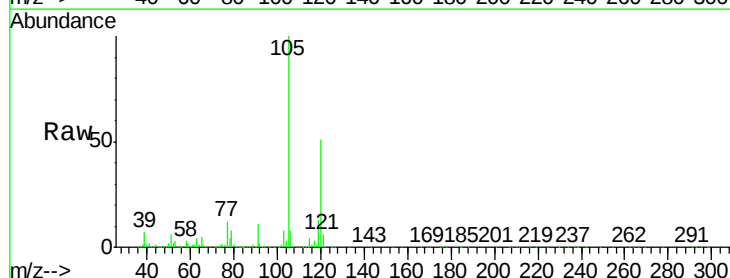
Acq: 16 Sep 2015 21:32

Tgt Ion: 105 Resp: 517325

Ion Ratio Lower Upper

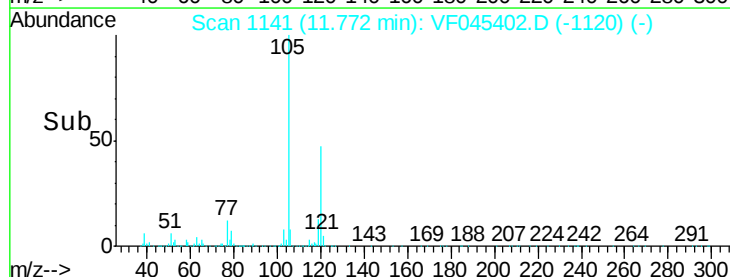
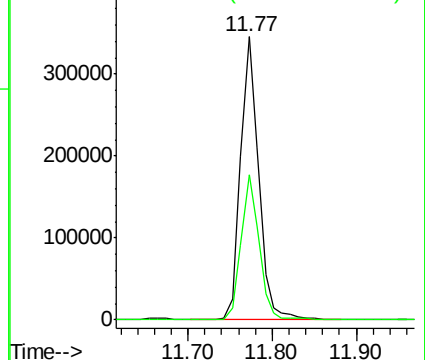
105 100

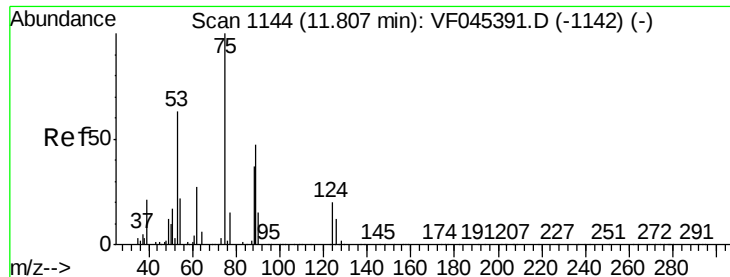
120 51.2 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#80

trans-1,4-Dichloro-2-butene

Concen: 11.75 ug/l

RT: 11.81 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

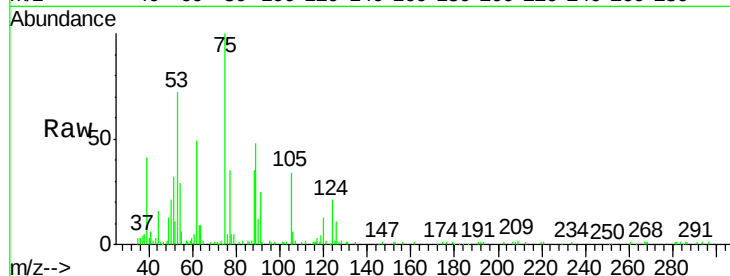
Tgt Ion: 75 Resp: 55176

Ion Ratio Lower Upper

75 100

53 72.4 51.0 76.6

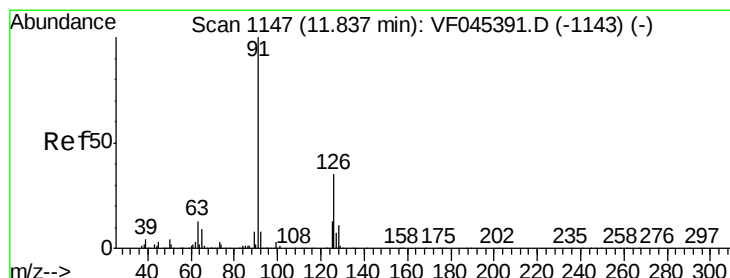
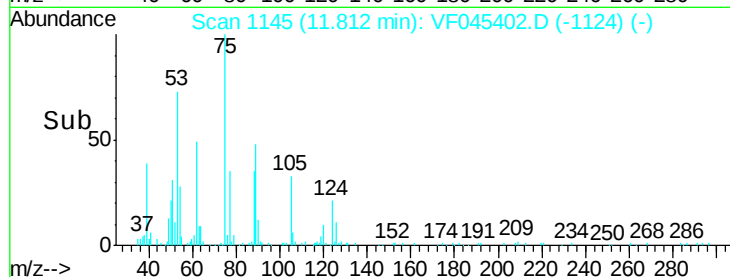
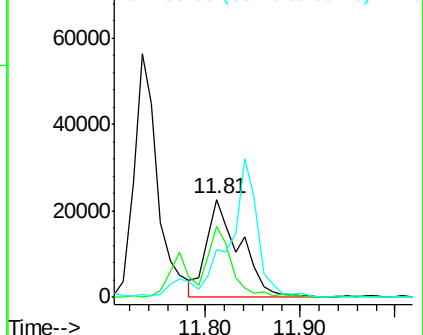
89 48.2 38.6 57.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#81

4-Chlorotoluene

Concen: 11.04 ug/l

RT: 11.84 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VF045402.D

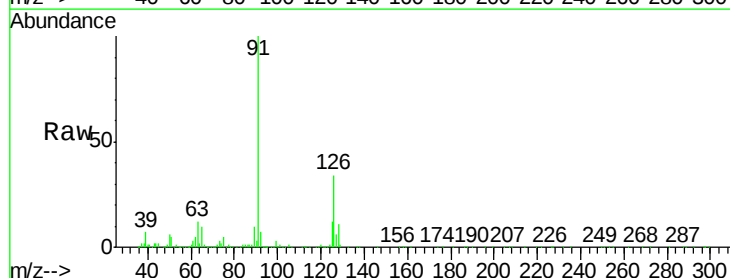
Acq: 16 Sep 2015 21:32

Tgt Ion: 91 Resp: 476613

Ion Ratio Lower Upper

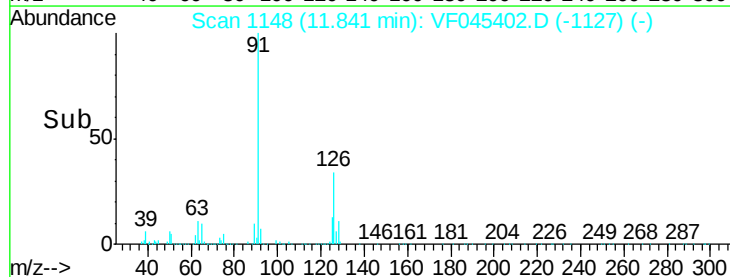
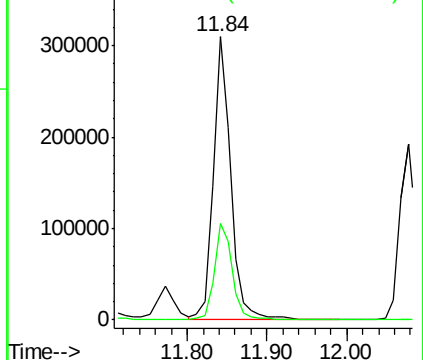
91 100

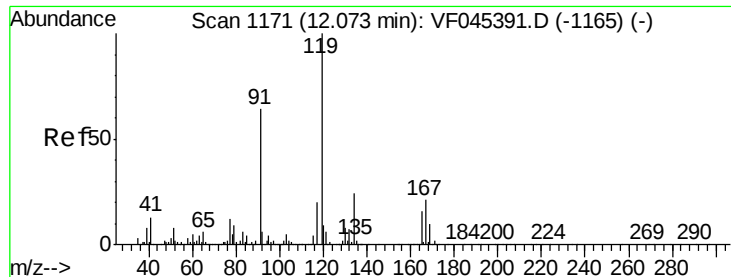
126 34.0 15.8 47.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#82

tert-Butylbenzene

Concen: 10.68 ug/l

RT: 12.08 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

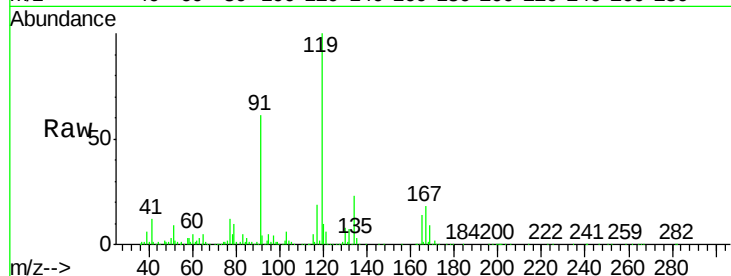
Tgt Ion:119 Resp: 484290

Ion Ratio Lower Upper

119 100

91 60.8 31.1 93.2

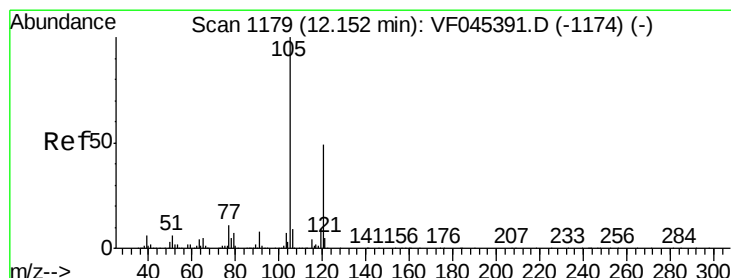
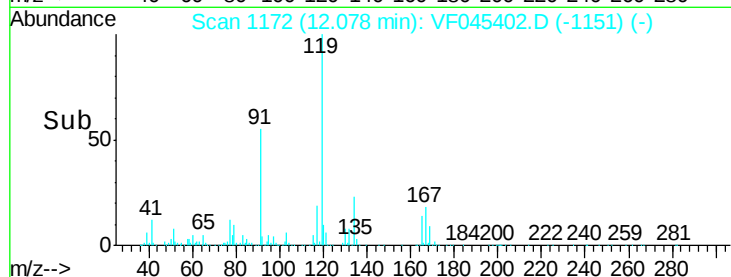
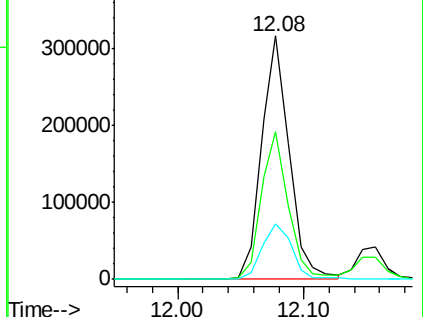
134 23.0 12.2 36.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#83

1,2,4-Trimethylbenzene

Concen: 11.13 ug/l

RT: 12.16 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VF045402.D

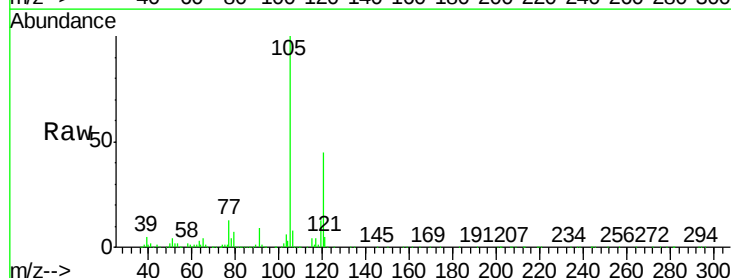
Acq: 16 Sep 2015 21:32

Tgt Ion:105 Resp: 522922

Ion Ratio Lower Upper

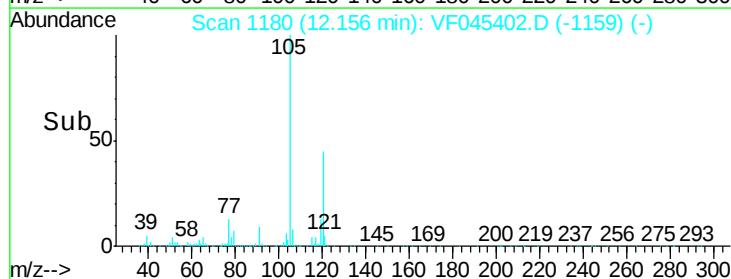
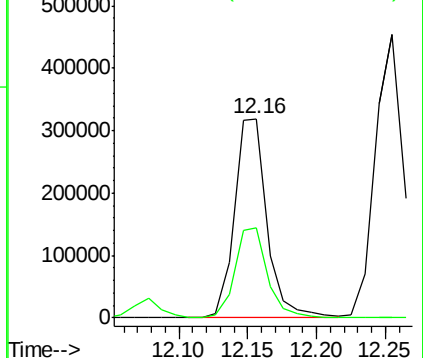
105 100

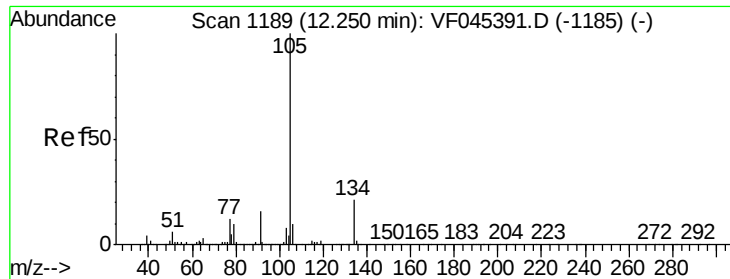
120 45.5 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

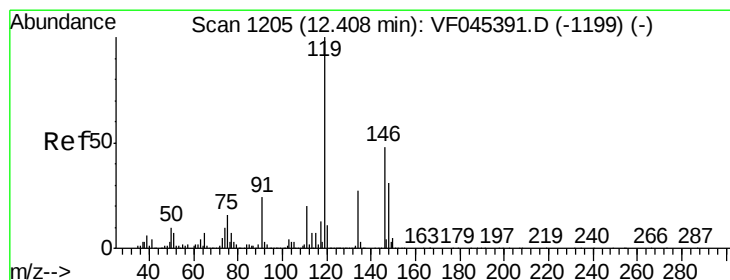
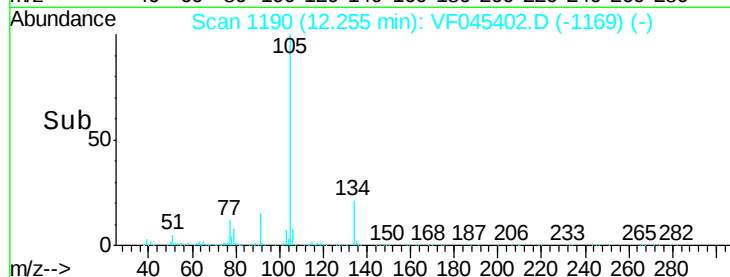
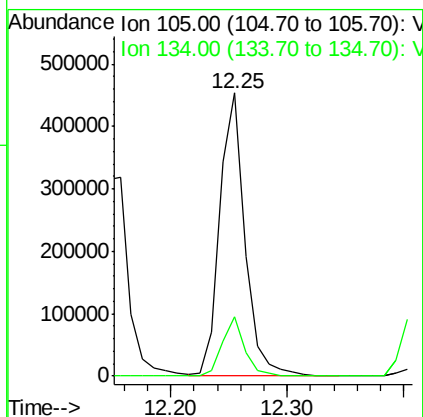
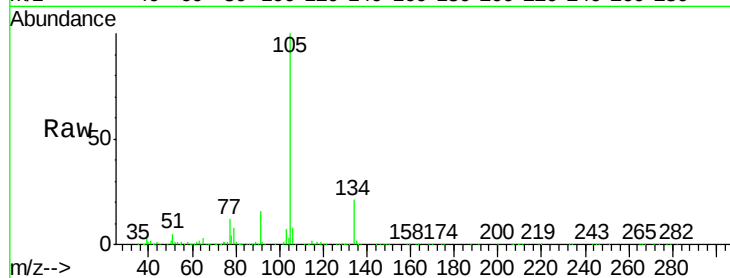




#84
 sec-Butylbenzene
 Concen: 10.77 ug/l
 RT: 12.25 min Scan# 1190
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

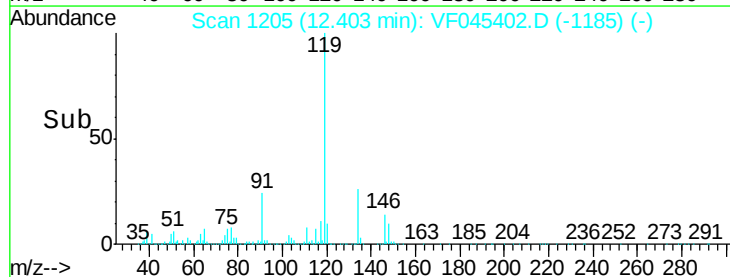
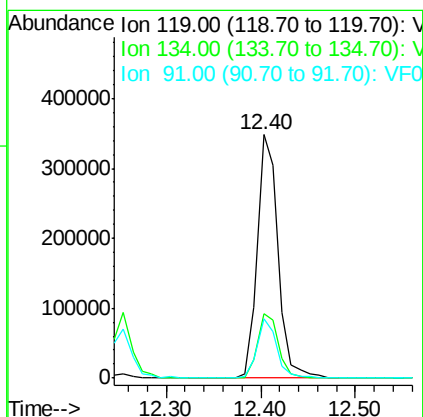
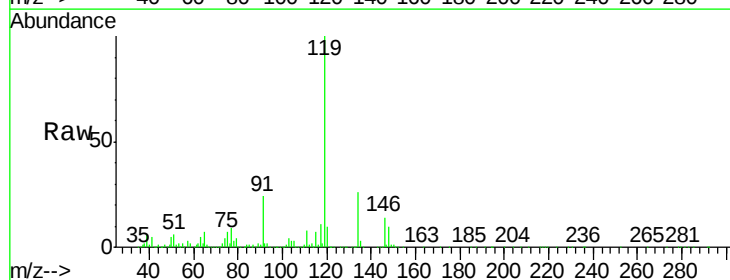
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

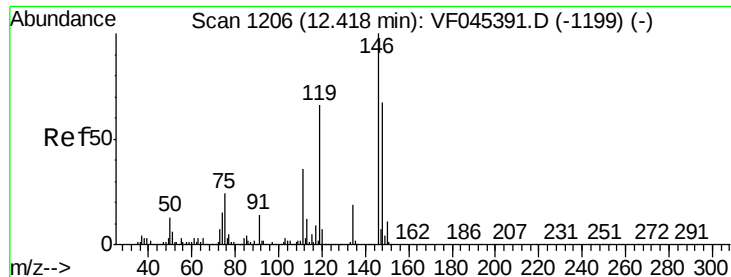
Tgt Ion:105 Resp: 678609
 Ion Ratio Lower Upper
 105 100
 134 20.8 10.5 31.6



#85
 p-Isopropyltoluene
 Concen: 10.79 ug/l
 RT: 12.40 min Scan# 1205
 Delta R.T. -0.01 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Tgt Ion:119 Resp: 529555
 Ion Ratio Lower Upper
 119 100
 134 26.3 13.0 38.9
 91 24.3 12.2 36.6

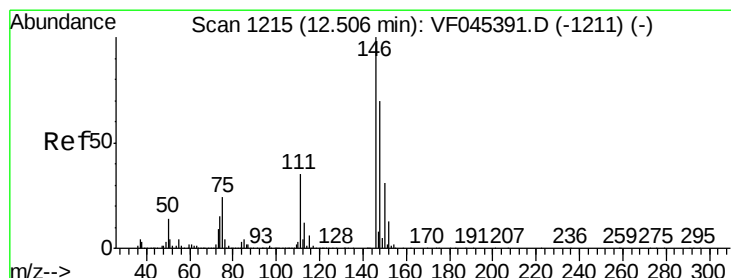
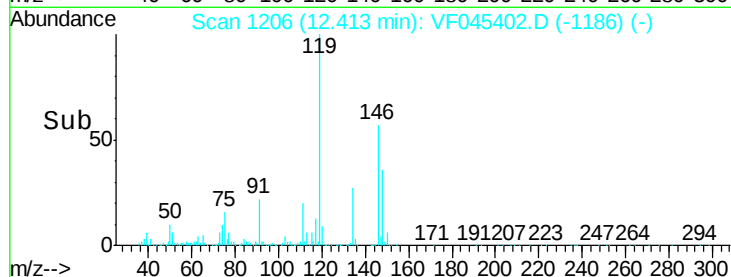
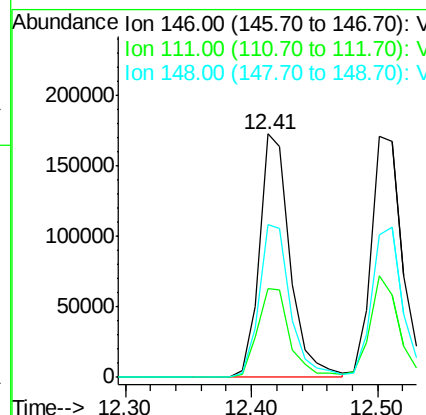
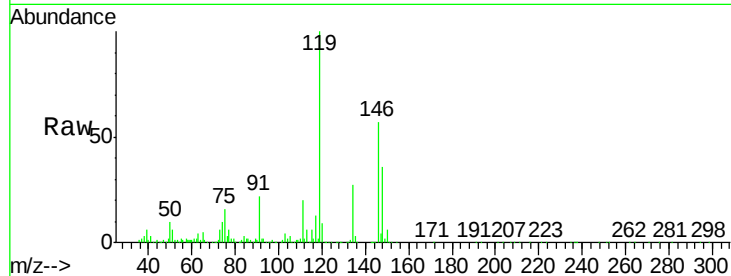




#86
 1,3-Dichlorobenzene
 Concen: 10.80 ug/l
 RT: 12.41 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

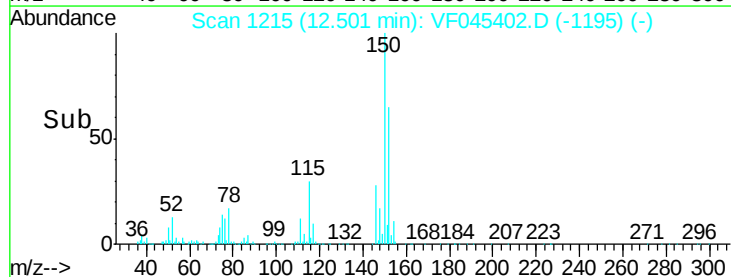
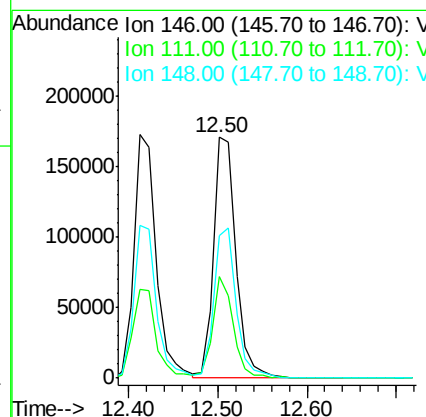
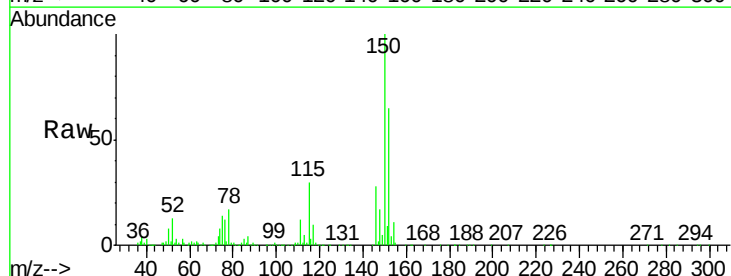
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

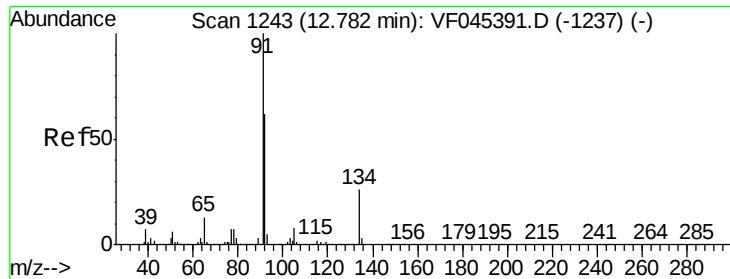
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	19.9	59.7
148	62.8	32.5	97.4



#87
 1,4-Dichlorobenzene
 Concen: 10.89 ug/l
 RT: 12.50 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	17.3	52.0
148	59.5	32.4	97.0

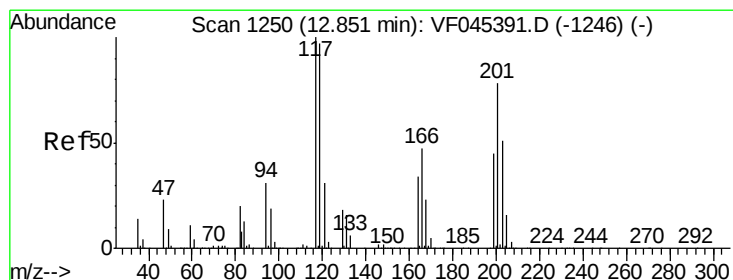
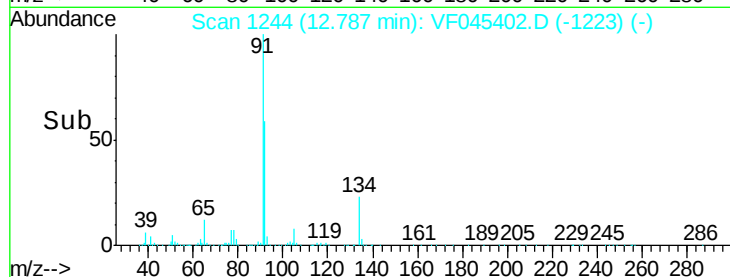
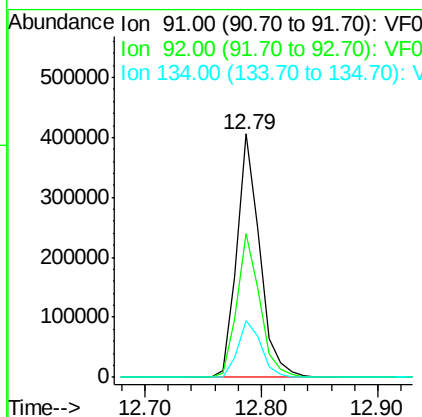
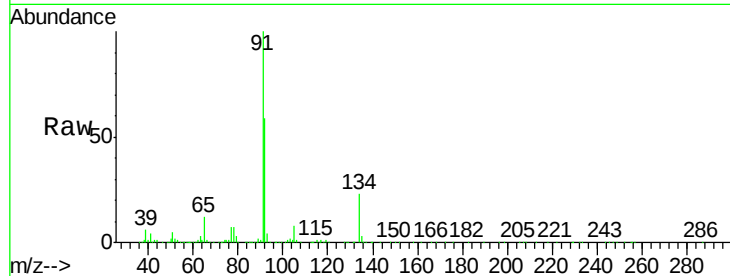




#88
n-Butylbenzene
Concen: 11.17 ug/l
RT: 12.79 min Scan# 1244
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

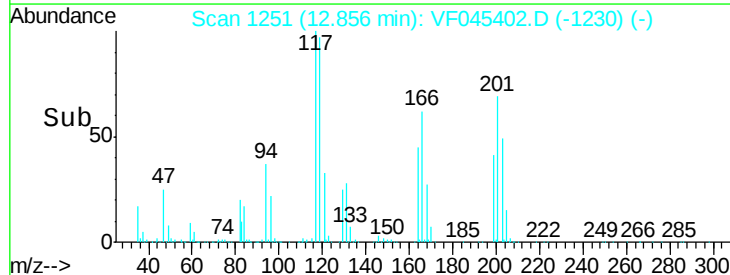
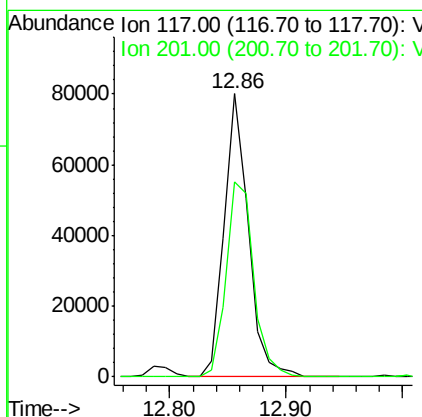
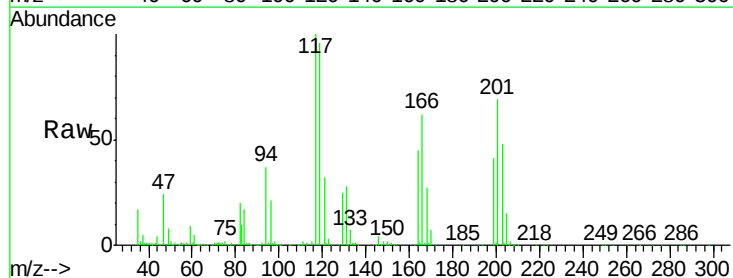
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

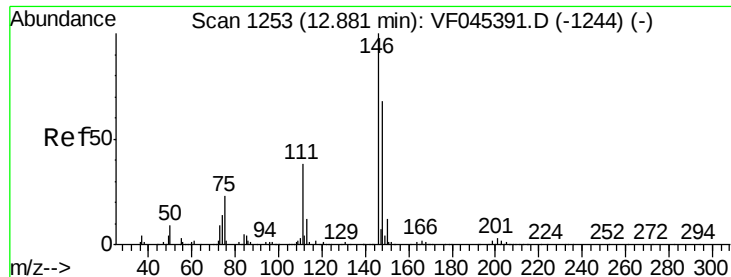
Tgt Ion: 91 Resp: 550772
Ion Ratio Lower Upper
91 100
92 59.2 30.1 90.5
134 23.2 13.8 41.4



#89
Hexachloroethane
Concen: 9.98 ug/l
RT: 12.86 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion: 117 Resp: 115916
Ion Ratio Lower Upper
117 100
201 69.0 42.0 126.1





#90

1,2-Dichlorobenzene

Concen: 11.03 ug/l

RT: 12.89 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

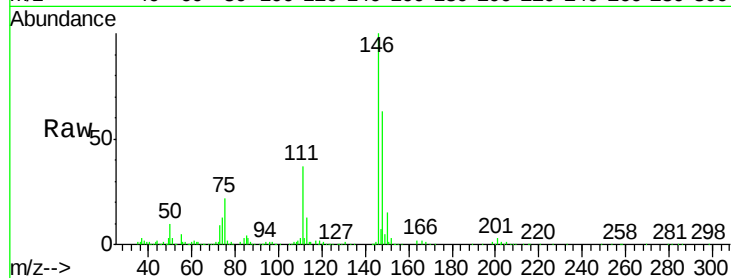
Tgt Ion:146 Resp: 275043

Ion Ratio Lower Upper

146 100

111 36.6 21.4 64.3

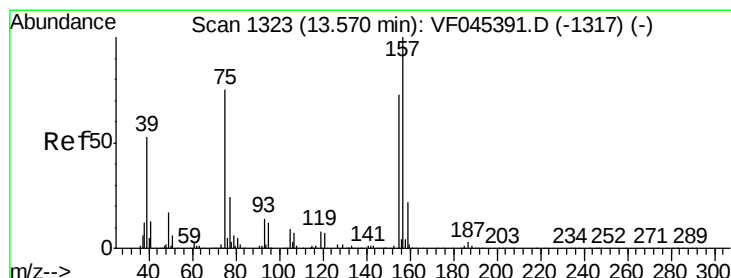
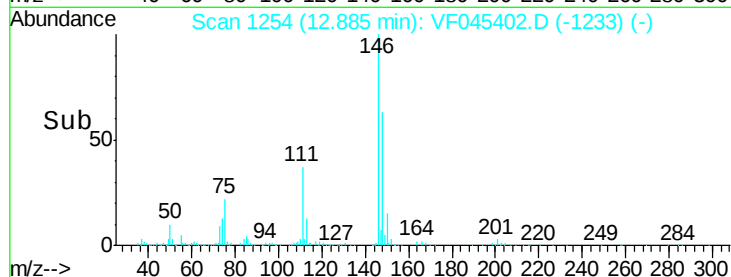
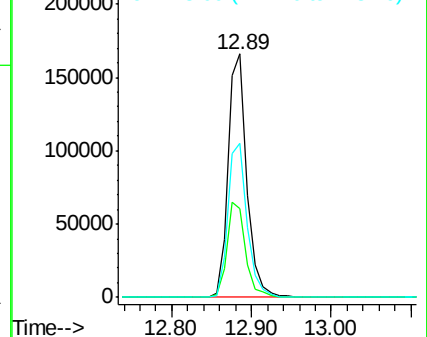
148 63.1 31.4 94.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#91

1,2-Dibromo-3-Chloropropane

Concen: 9.73 ug/l

RT: 13.57 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

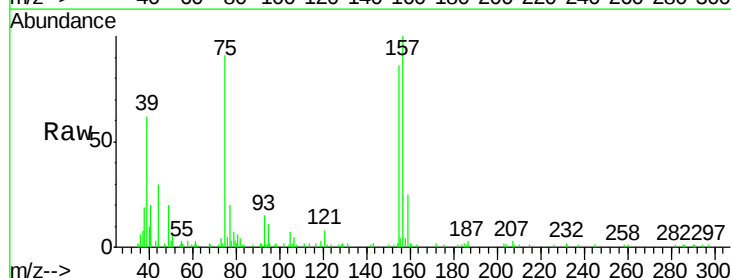
Tgt Ion: 75 Resp: 16465

Ion Ratio Lower Upper

75 100

155 95.0 49.2 147.6

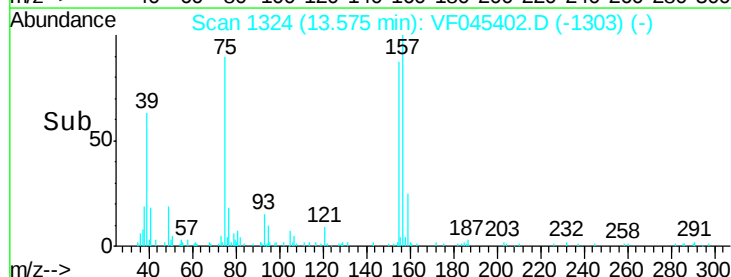
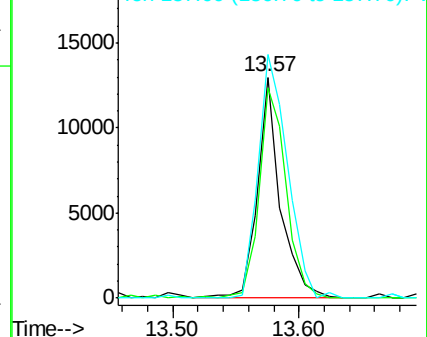
157 110.1 66.8 200.4

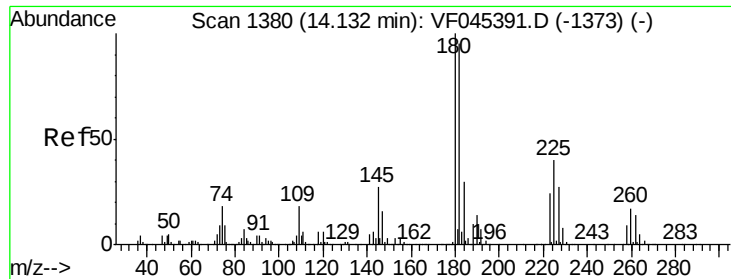


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

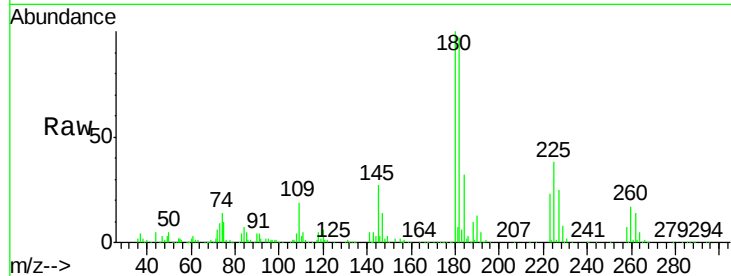




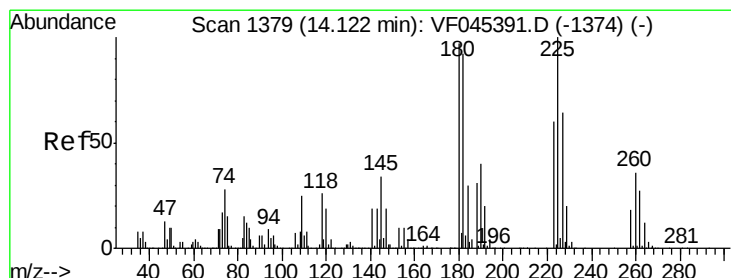
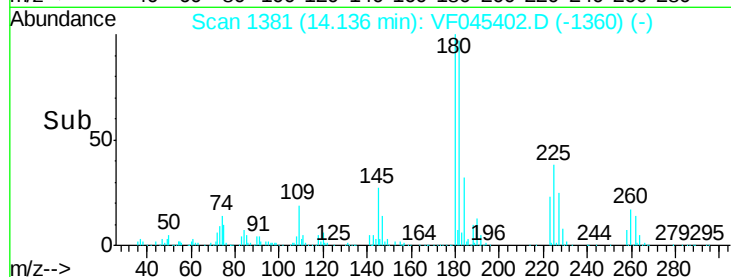
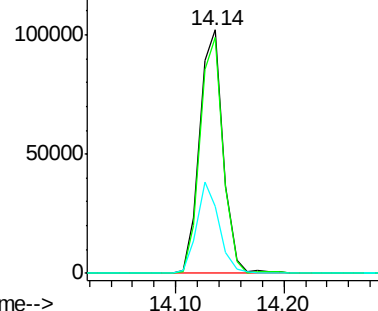
#92
 1,2,4-Trichlorobenzene
 Concen: 10.74 ug/l
 RT: 14.14 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:180 Resp: 155023
 Ion Ratio Lower Upper
 180 100
 182 97.0 49.4 148.0
 145 27.4 16.7 50.1

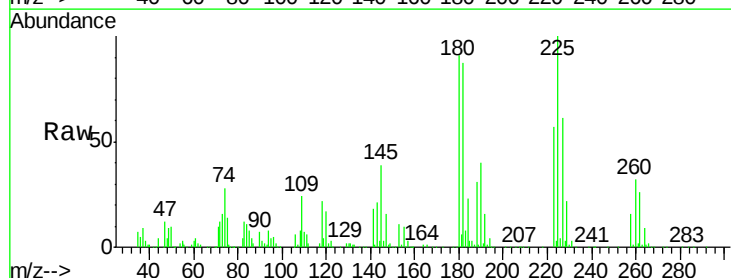


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

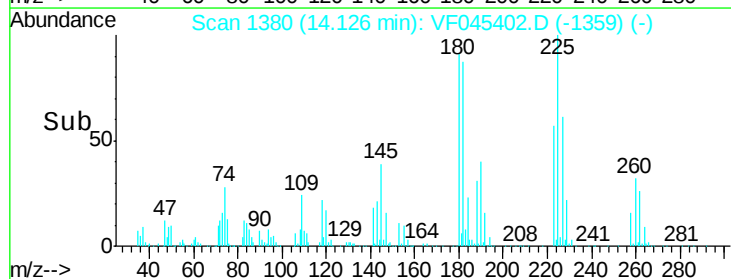
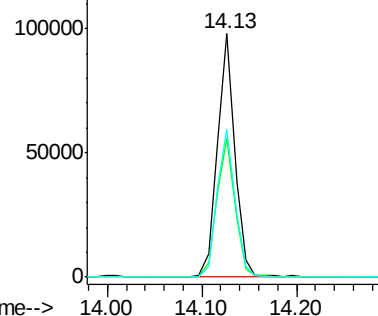


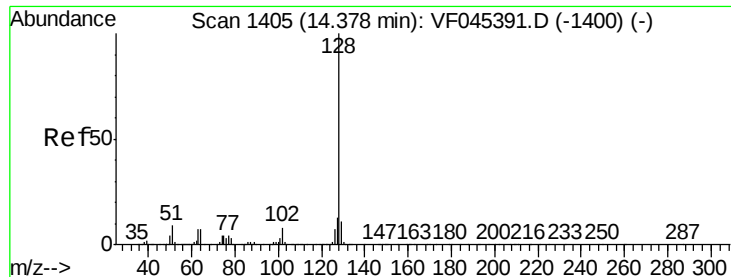
#93
 Hexachlorobutadiene
 Concen: 11.39 ug/l
 RT: 14.13 min Scan# 1380
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Tgt Ion:225 Resp: 124847
 Ion Ratio Lower Upper
 225 100
 223 56.9 31.9 95.5
 227 60.8 32.9 98.7



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#94

Naphthalene

Concen: 10.71 ug/l

RT: 14.38 min Scan# 1406

Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

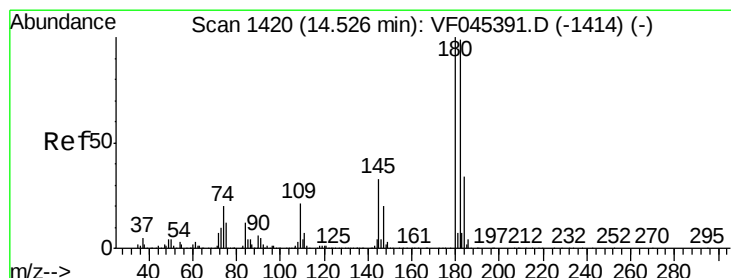
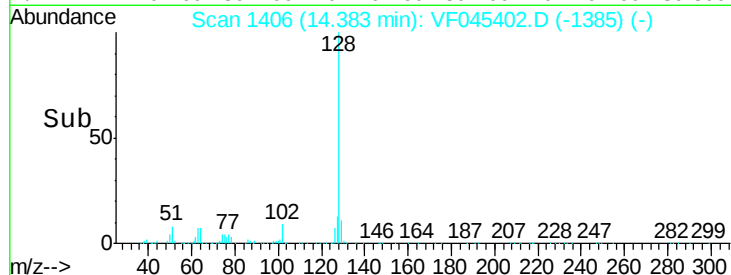
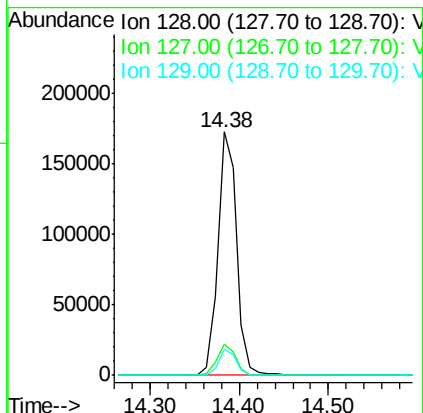
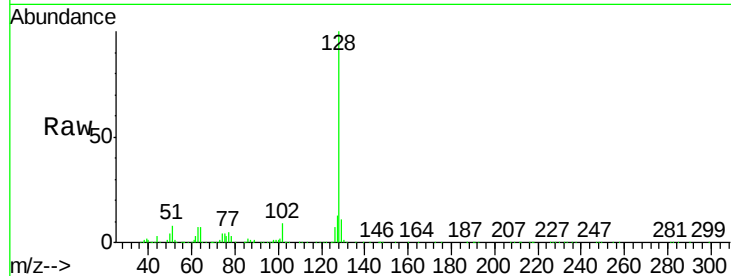
Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL2015-02

Tgt Ion:	128	Resp:	254707
Ion	Ratio	Lower	Upper
128	100		
127	13.0	9.8	14.8
129	10.9	8.8	13.2



#95

1,2,3-Trichlorobenzene

Concen: 10.61 ug/l

RT: 14.53 min Scan# 1421

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion:	180	Resp:	125811
Ion	Ratio	Lower	Upper
180	100		
182	90.8	47.6	142.8
145	29.5	14.5	43.6

