

Data Path : W:\HPCHEM1\MSVOA F\DATA\VF091615\
 Data File : VF045402.D
 Acq On : 16 Sep 2015 21:32
 Operator : FY/SY
 Sample : G3707-04L00 10ppb
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Manual Integrations
 APPROVED

MMDadoda
 9/17/2015 12:51:36 PM

Quant Time: Sep 17 08:14:27 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	131890m	9.59	ug/l	
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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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	40249m	8.57	ug/l	
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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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)
94) Naphthalene	14.38	128	254707	10.71	µg/l	99
95) 1,2,3-Trichlorobenzene	14.53	180	125811	10.61	µg/l	96

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

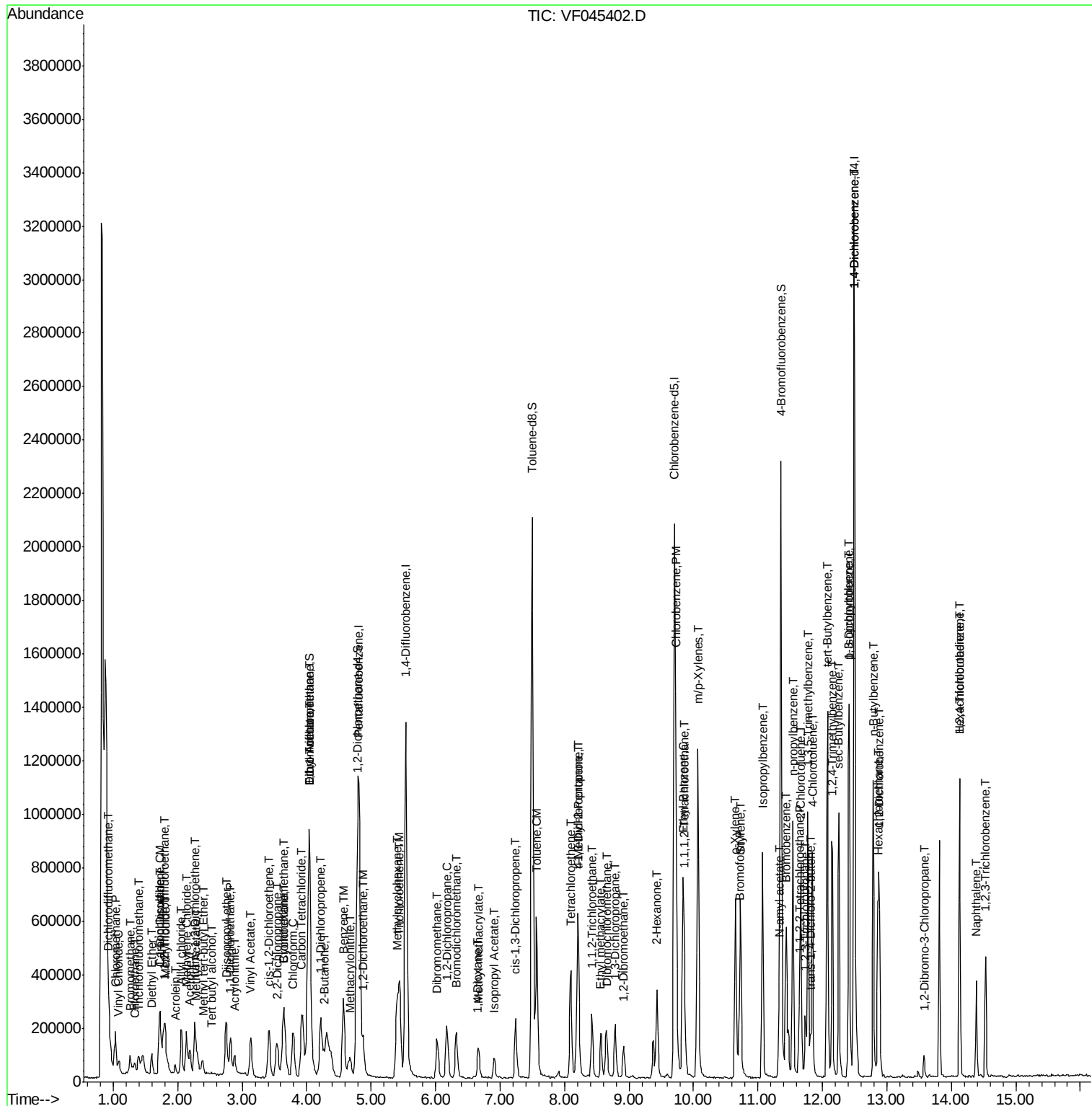
Data Path : W:\HPCHEM1\MSVOA F\DATA\VF091615\
 Data File : VF045402.D
 Acd On : 16 Sep 2015 21:32
 Operator : FY/SY
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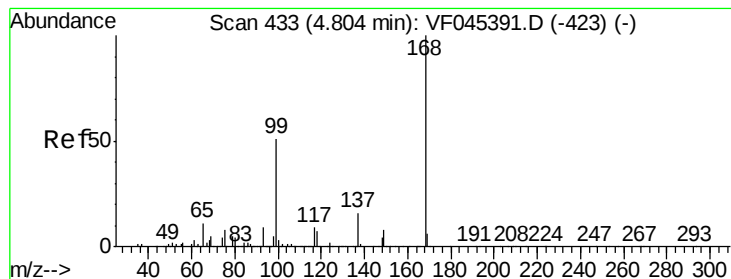
Instrument :
 MSVOA_F
 Client Sample Id :
 LOQ-SOIL2015-02

Manual Integrations
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#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

Tot Ion:168 Resp: 1071992

Ion Ratio Lower Upper

168 100

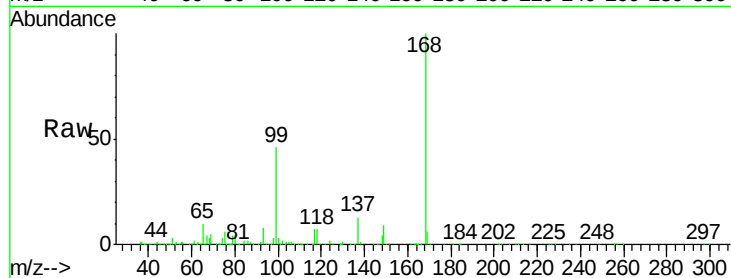
99 46.1 39.0 58.4

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.82

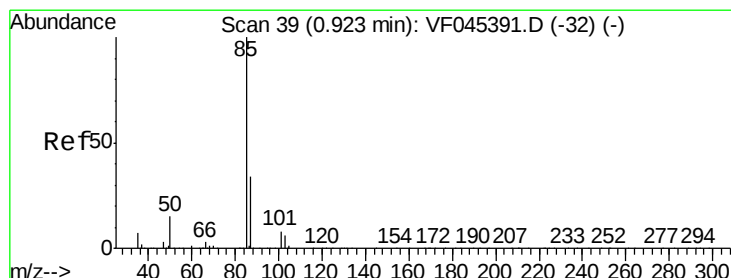
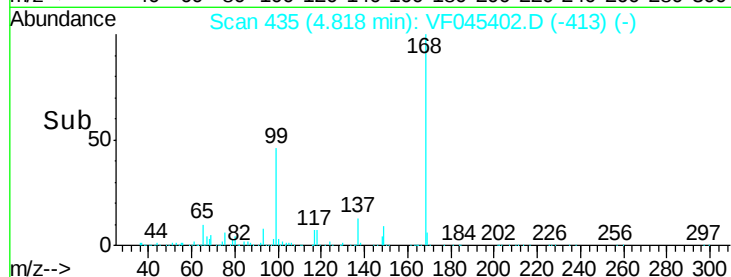
300000

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

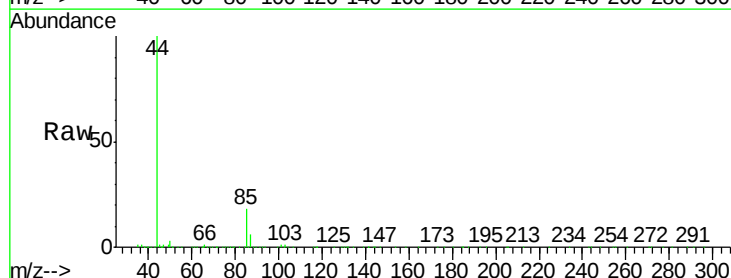
Acq: 16 Sep 2015 21:32

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

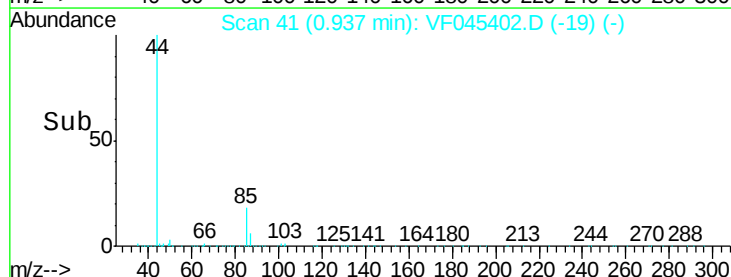
30000

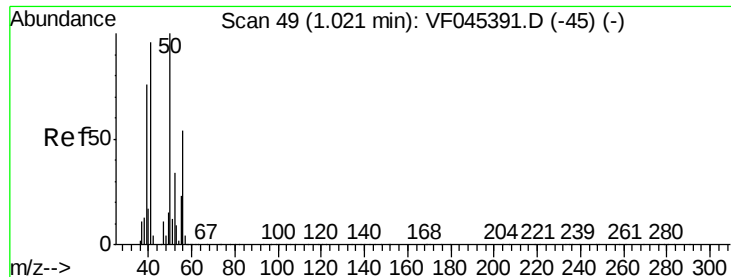
20000

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

Tot Ion: 50 Resp: 79121

Ion Ratio Lower Upper

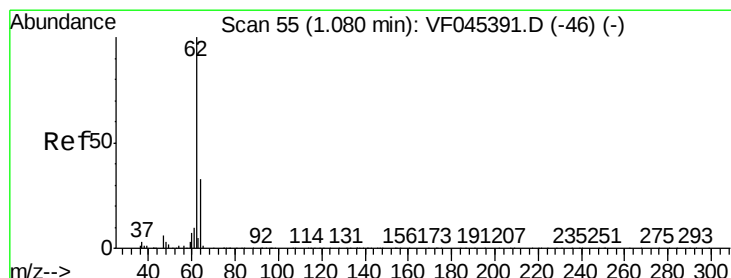
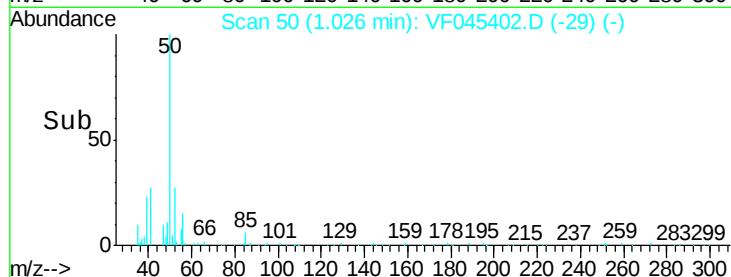
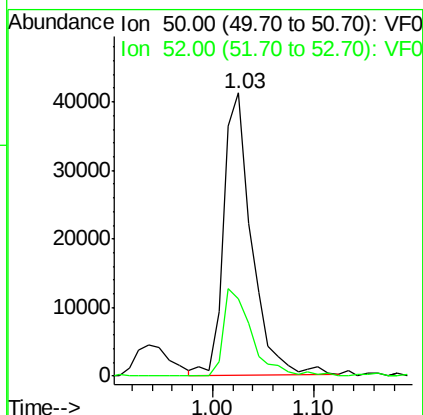
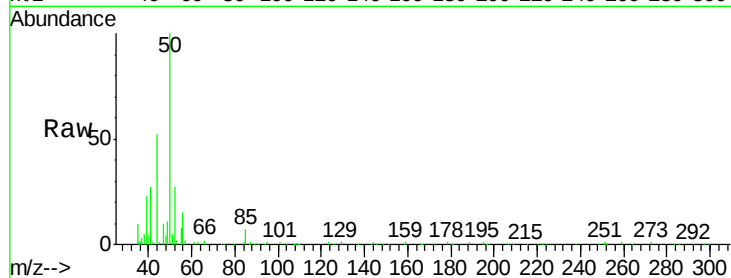
50 100

52 27.5 23.8 35.8

Manual Integrations
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#4

Vinyl Chloride

Concen: 9.54 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF045402.D

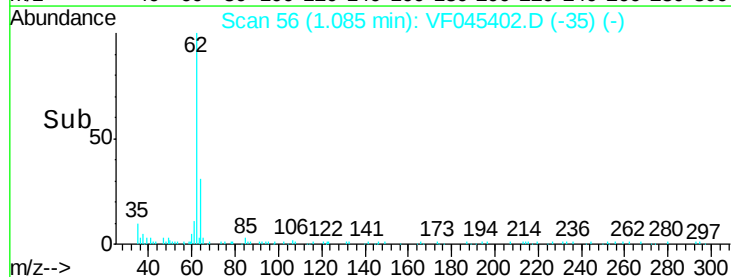
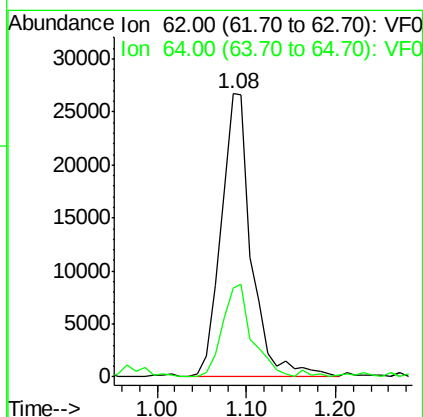
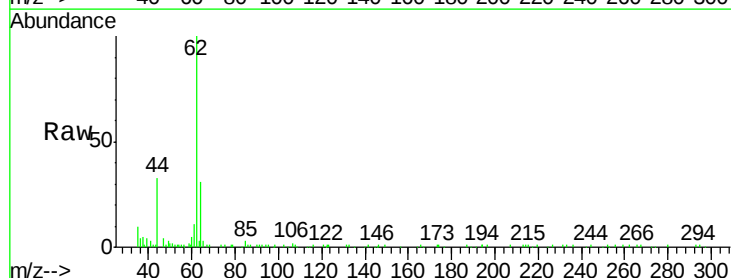
Acq: 16 Sep 2015 21:32

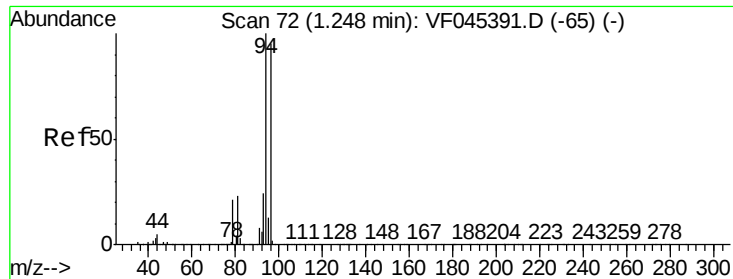
Tgt Ion: 62 Resp: 63895

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 :

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ClientSampleId :

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Tot Ion: 94 Resp: 36231

Ion Ratio Lower Upper

94 100

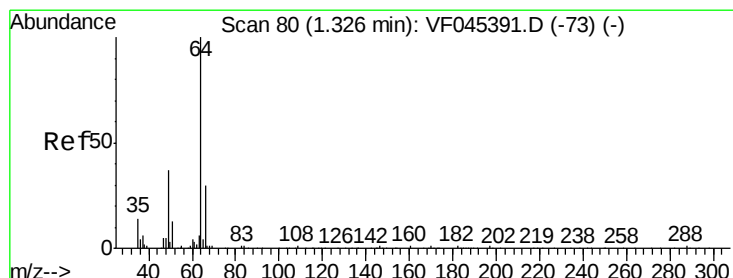
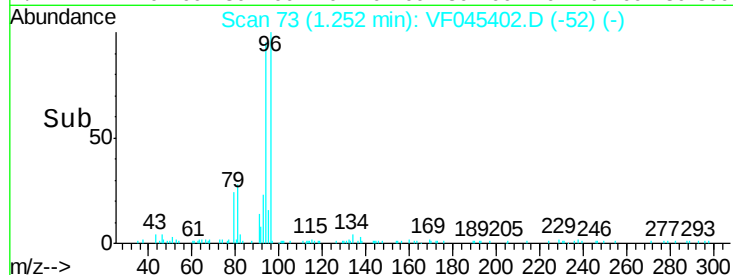
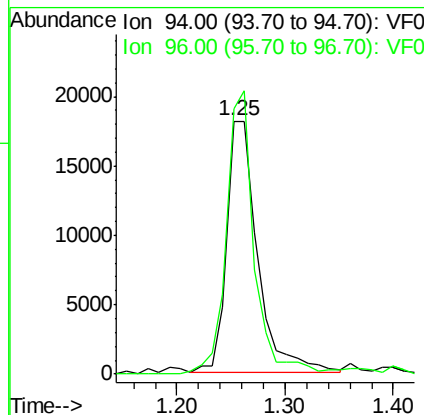
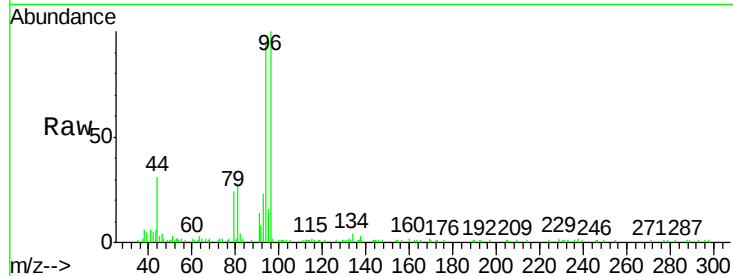
96 104.9 75.0 112.4

Manual Integrations

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#6

Chloroethane

Concen: 10.99 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF045402.D

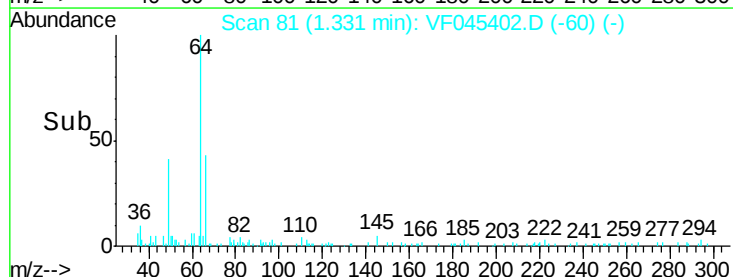
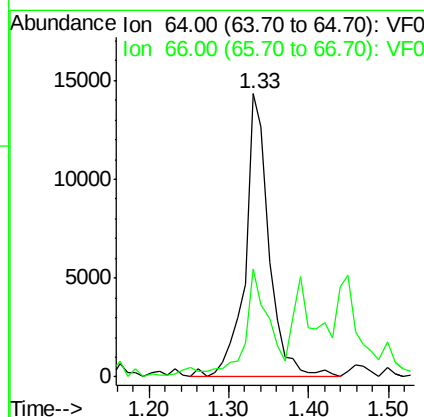
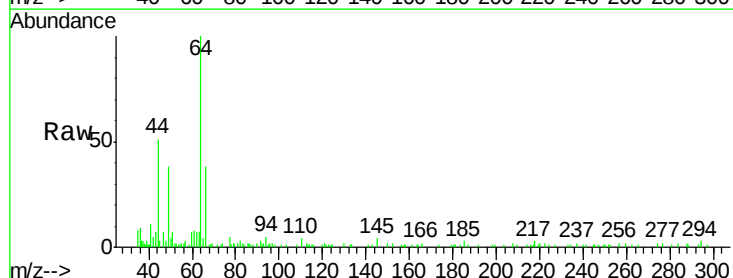
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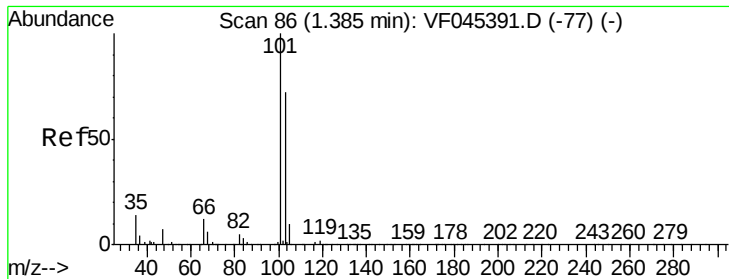
Tgt Ion: 64 Resp: 29337

Ion Ratio Lower Upper

64 100

66 38.1 27.3 40.9





#7

Trichlorofluoromethane

Concen: 9.59 ug/l m

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Instrument :

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ClientSampleId :

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Tot Ion:101 Resp: 131890

Ion Ratio Lower Upper

101 100

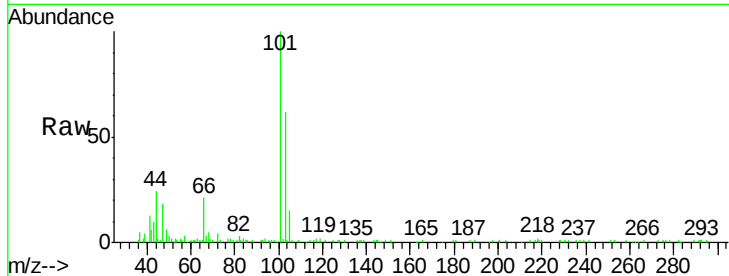
103 62.3 50.8 76.2

Manual Integrations

APPROVED

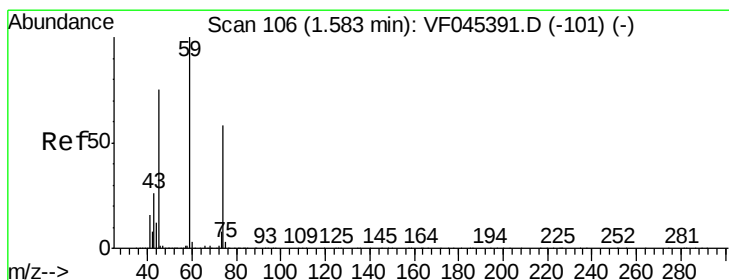
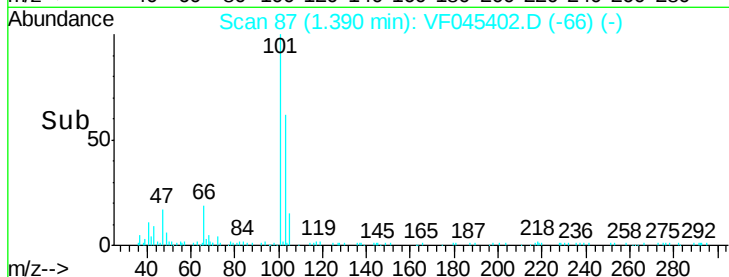
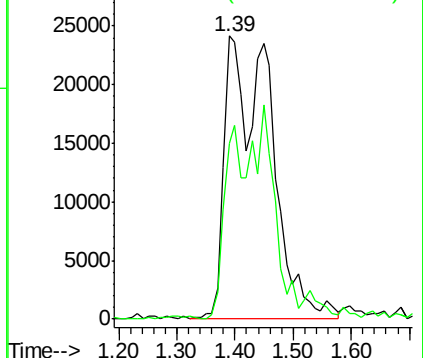
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Abundance Ion 101.00 (100.70 to 101.70): V

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

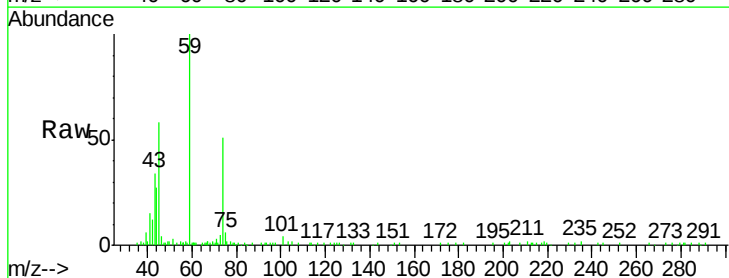
Acq: 16 Sep 2015 21:32

Tgt Ion: 74 Resp: 26742

Ion Ratio Lower Upper

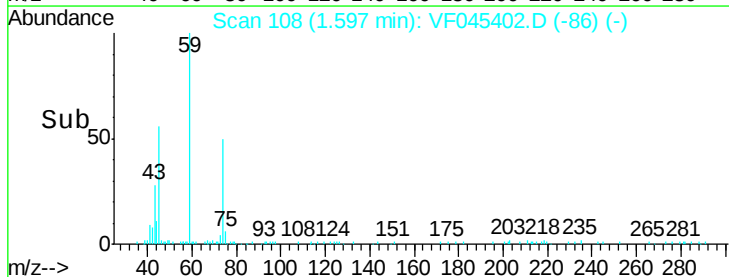
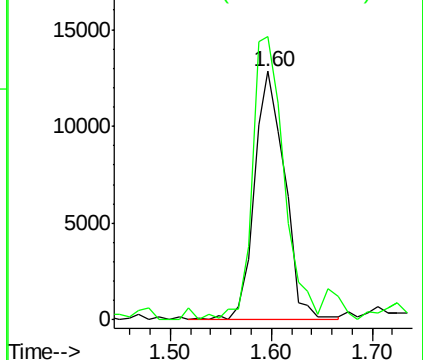
74 100

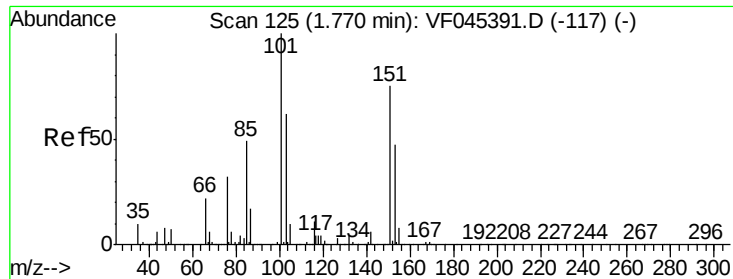
45 113.8 60.9 182.7



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

Instrument :

MSVOA_F

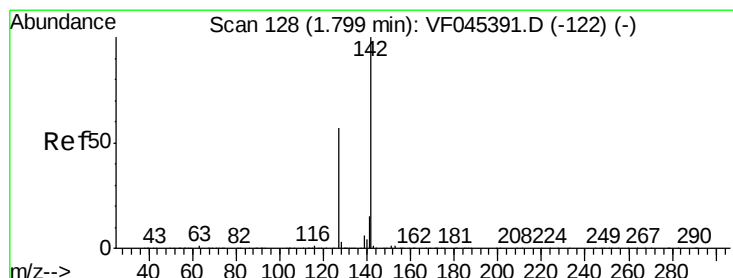
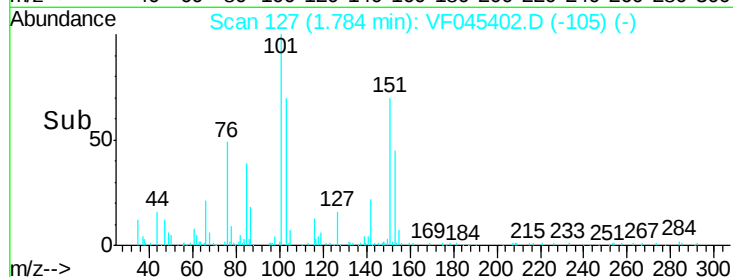
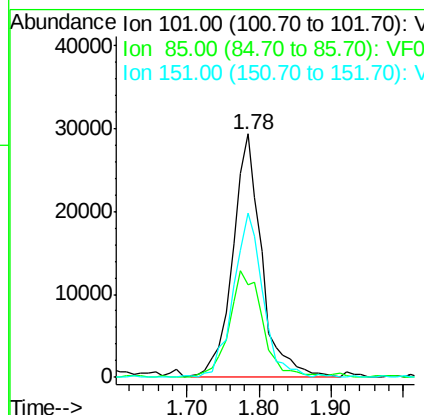
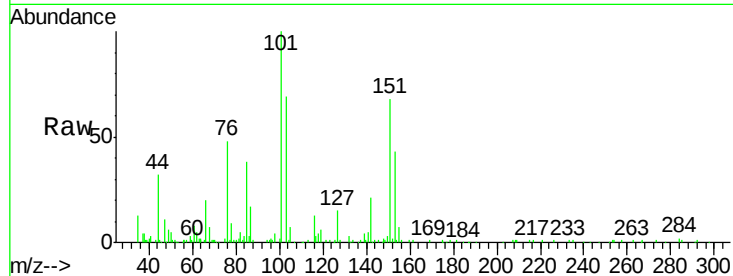
ClientSampleId :

LOQ-SOIL2015-02

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

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#10

Methyl Iodide

Concen: 9.91 ug/l

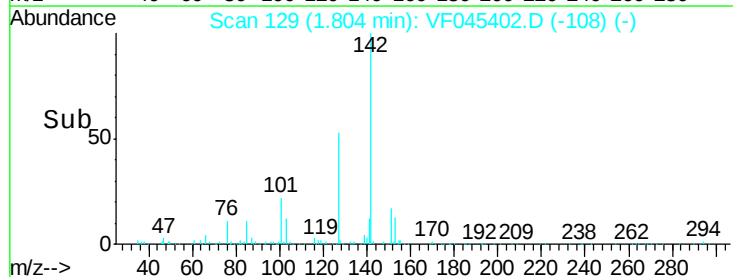
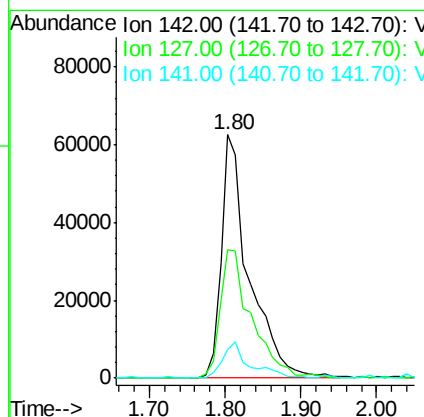
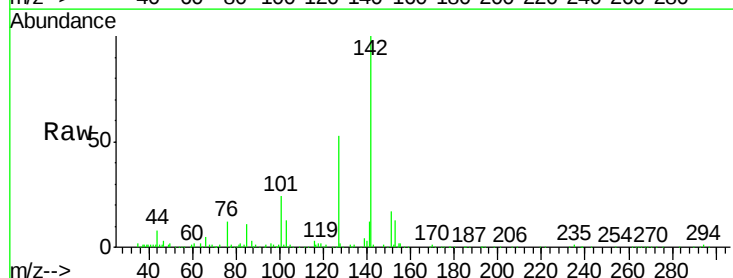
RT: 1.80 min Scan# 129

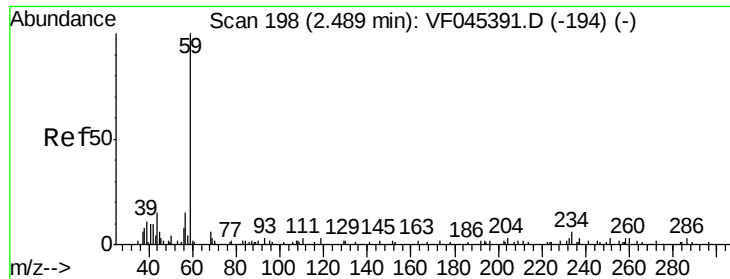
Delta R.T. 0.00 min

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#





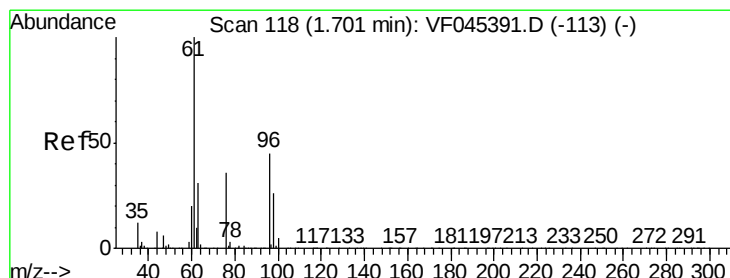
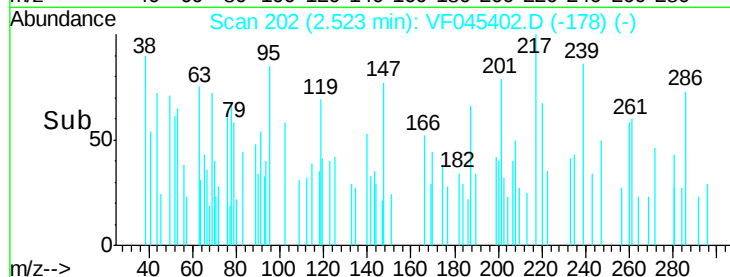
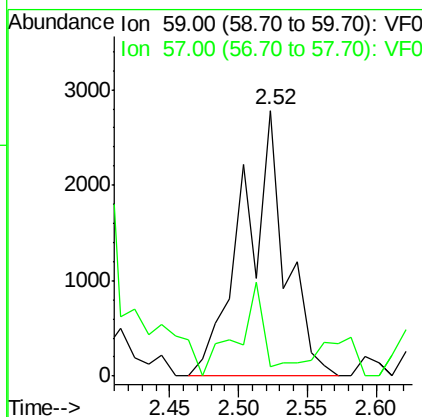
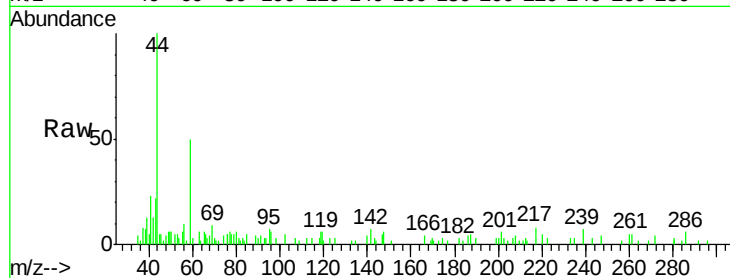
#11
Tert butyl alcohol
Concen: 45.83 ug/l
RT: 2.52 min Scan# 202
Delta R.T. 0.03 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

Tot Ion	Ratio	Lower	Upper
59	100		
57	3.7	8.6	13.0#

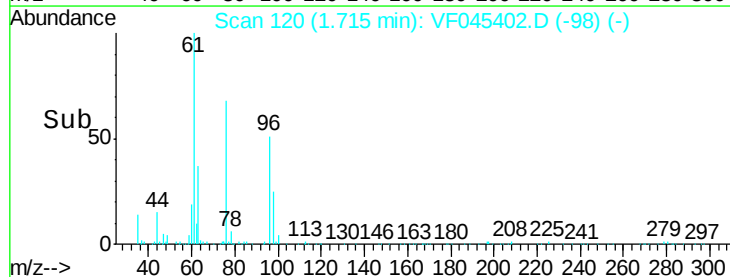
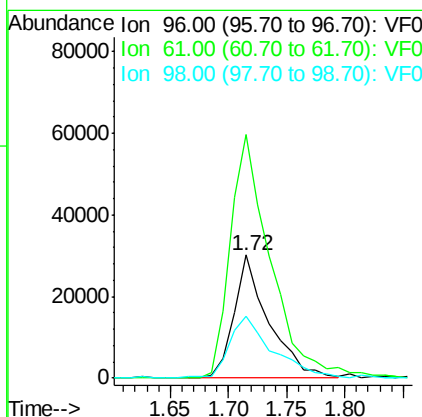
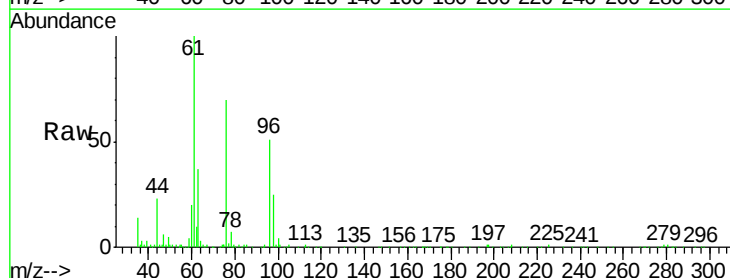
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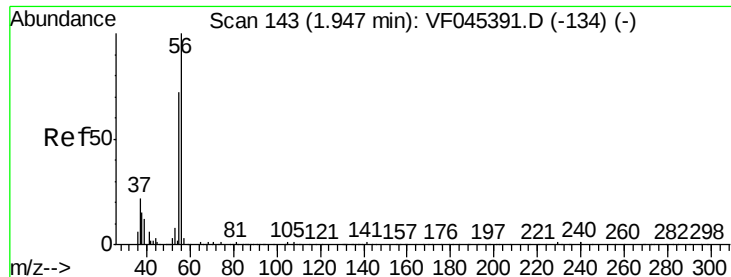
MMDadoda
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#12
1,1-Dichloroethene
Concen: 9.49 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion	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

Tot Ion: 56 Resp: 26475

Ion Ratio Lower Upper

56 100

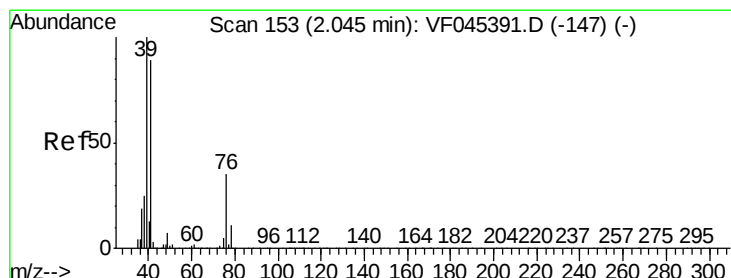
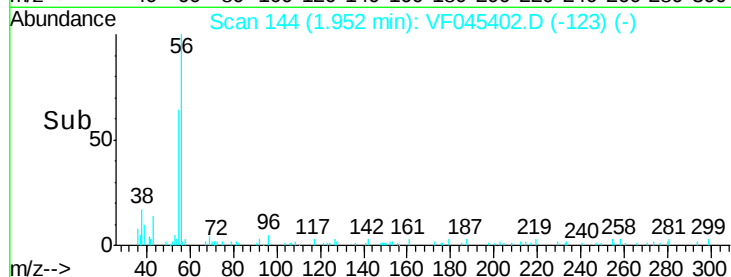
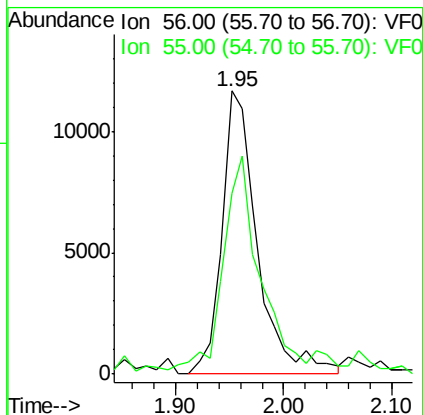
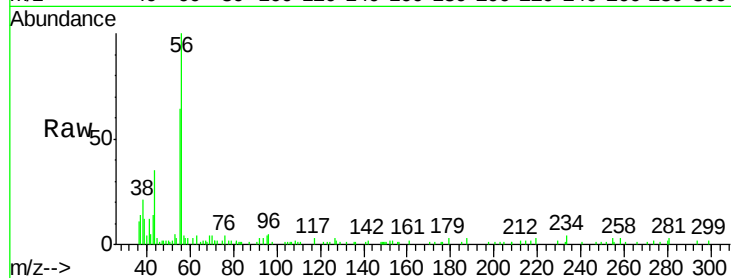
55 64.1 60.5 90.7

Manual Integrations

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#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

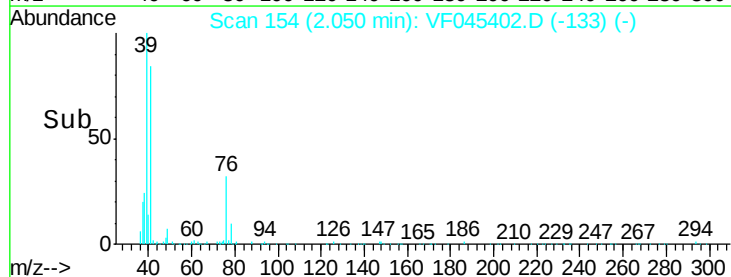
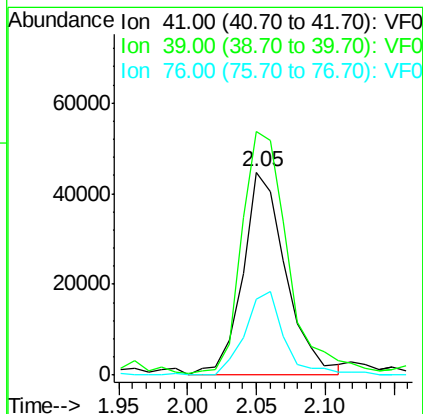
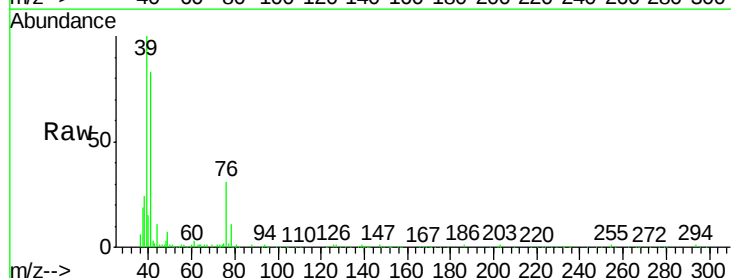
Tgt Ion: 41 Resp: 97731

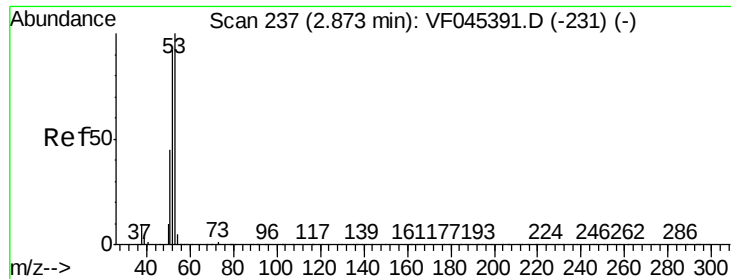
Ion Ratio Lower Upper

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

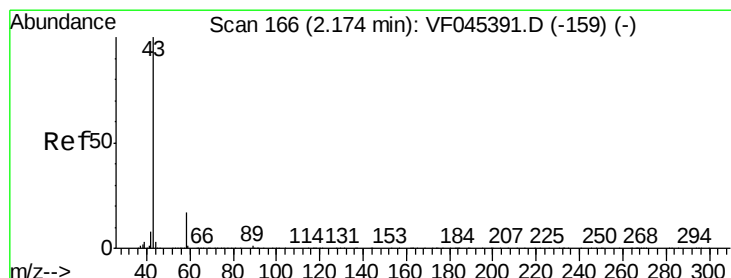
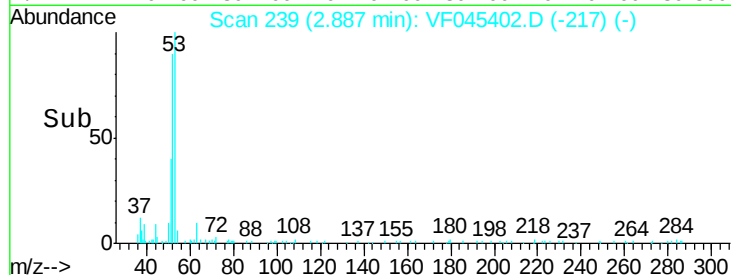
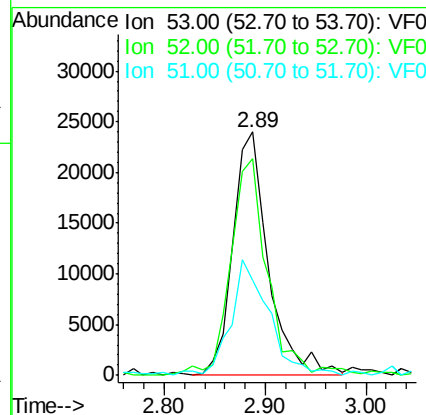
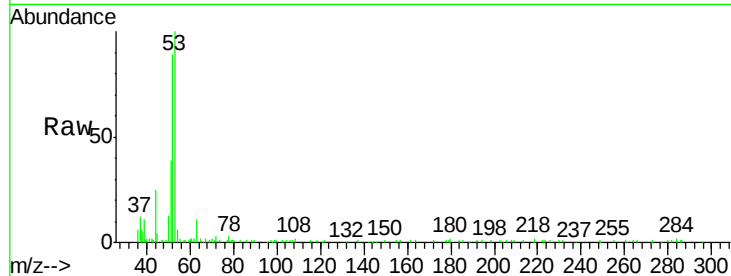
ClientSampleId :

LOQ-SOIL2015-02

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

Manual Integrations
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#16

Acetone

Concen: 46.88 ug/l

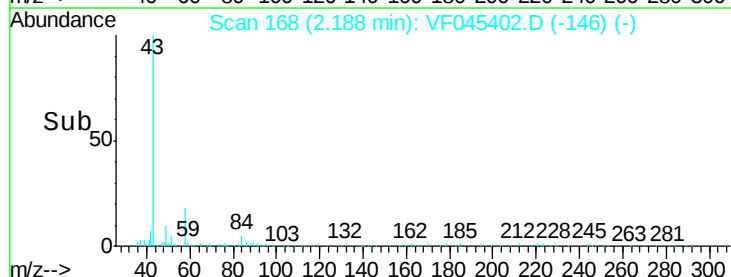
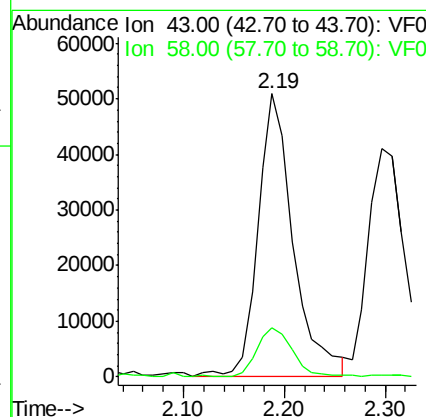
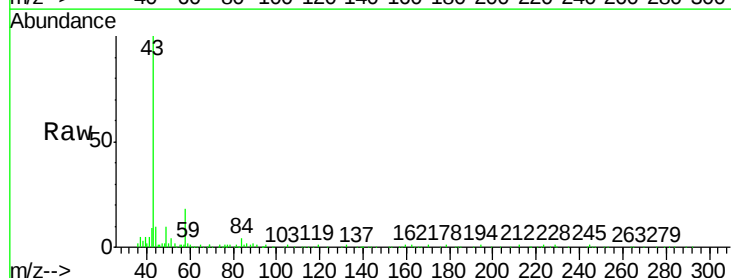
RT: 2.19 min Scan# 168

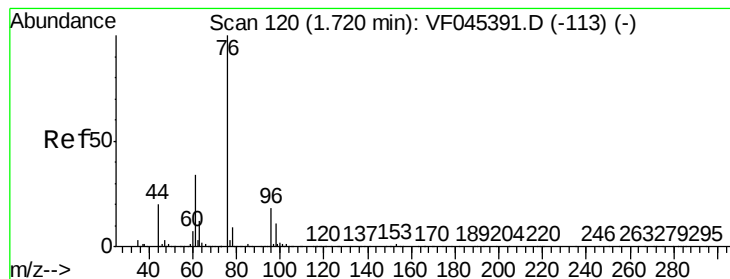
Delta R.T. 0.01 min

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

Tot Ion: 76 Resp: 200020

Ion Ratio Lower Upper

76 100

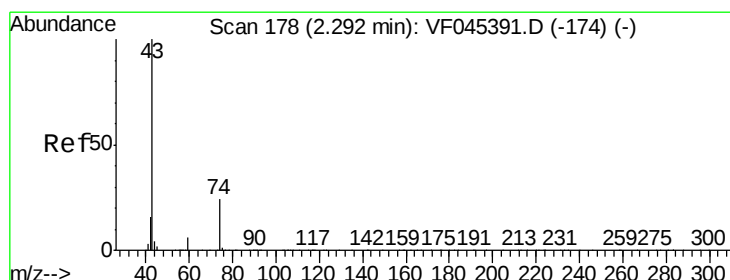
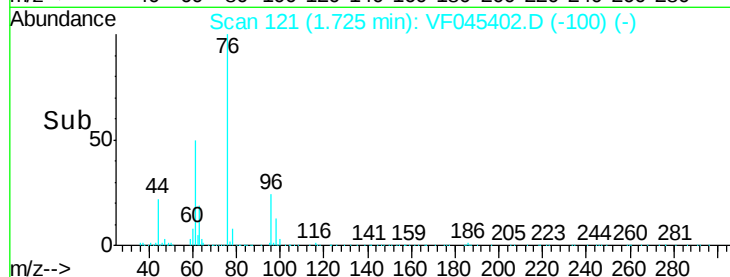
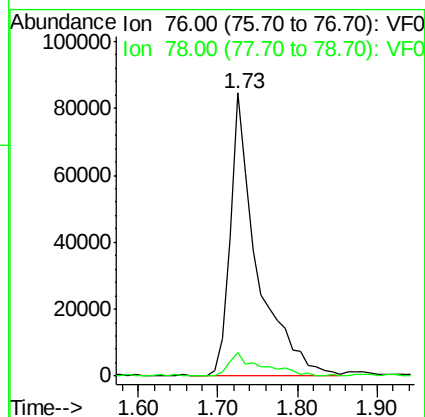
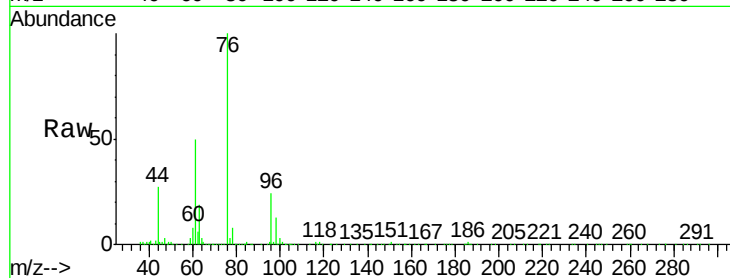
78 8.5 7.6 11.4

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#18

Methyl Acetate

Concen: 10.44 ug/l

RT: 2.30 min Scan# 179

Delta R.T. 0.00 min

Lab File: VF045402.D

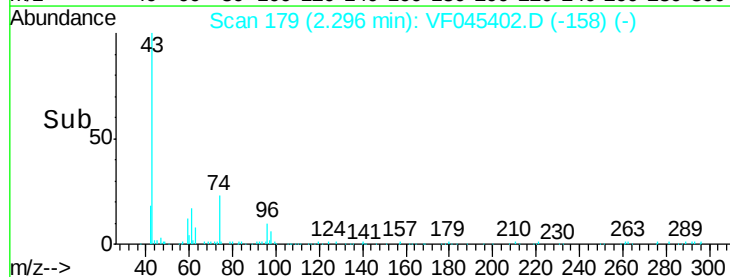
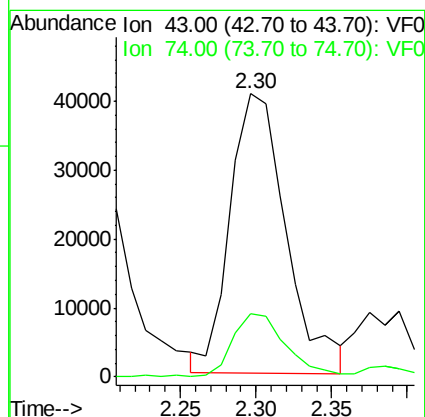
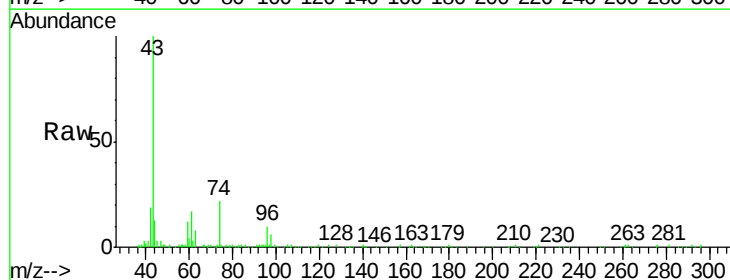
Acq: 16 Sep 2015 21:32

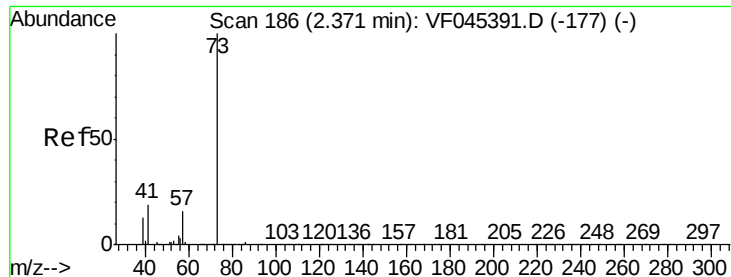
Tgt Ion: 43 Resp: 104628

Ion Ratio Lower Upper

43 100

74 22.3 15.1 22.7





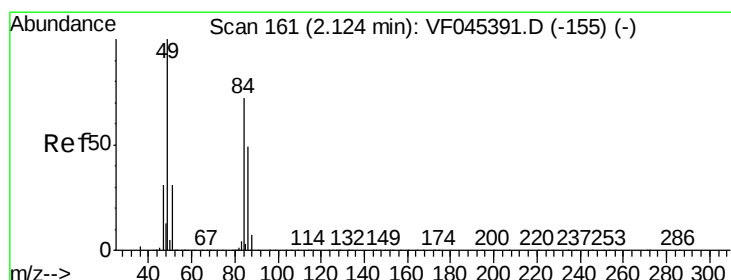
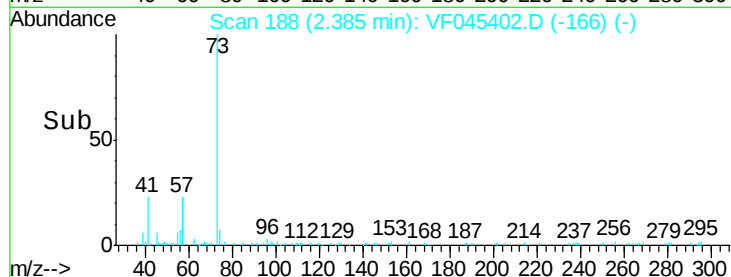
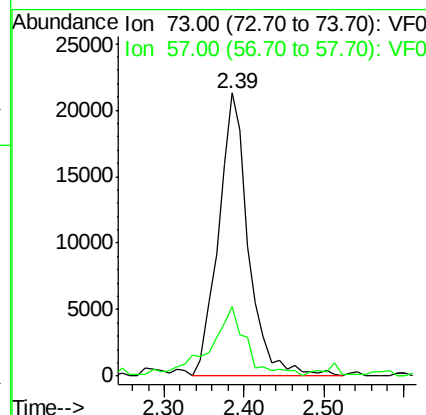
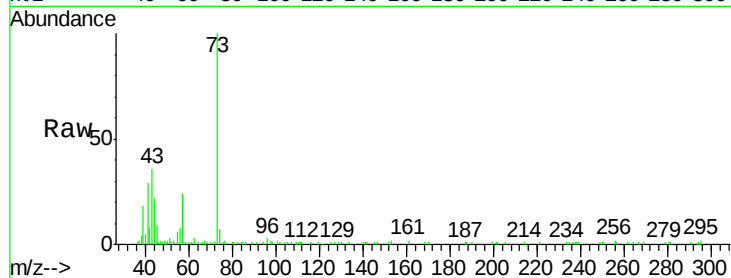
#19
Methvl tert-butvl Ether
Concen: 10.86 ug/l
RT: 2.39 min Scan# 188
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.4	12.9	19.3#

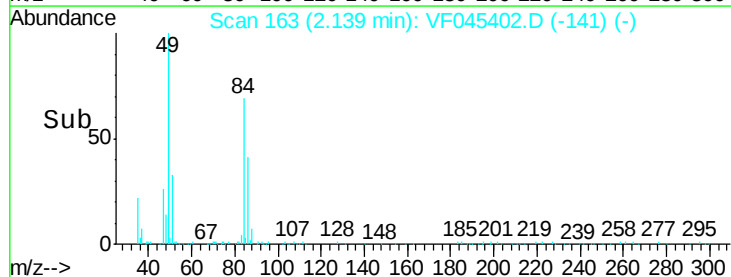
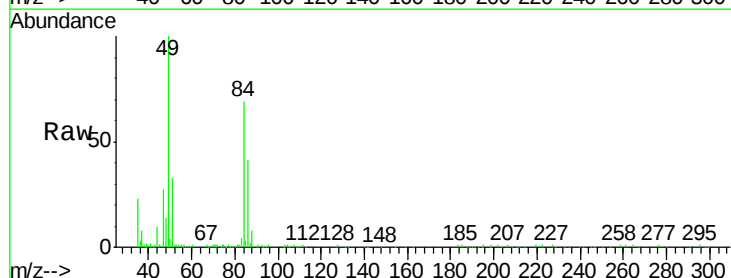
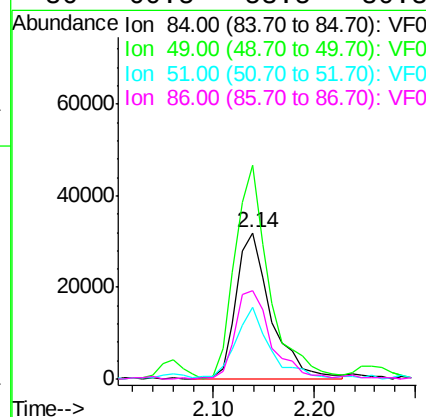
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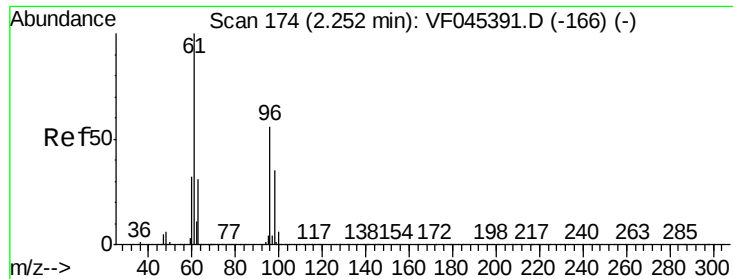
MMDadoda
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#20
Methylene Chloride
Concen: 6.57 ug/l
RT: 2.14 min Scan# 163
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion	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

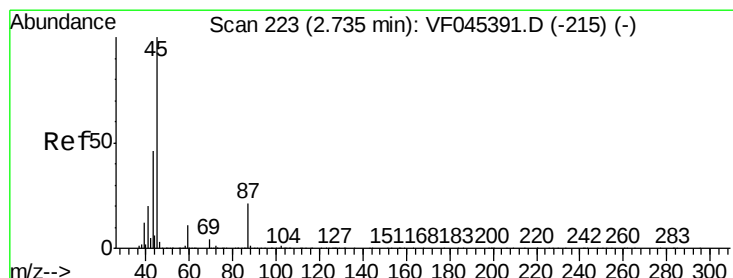
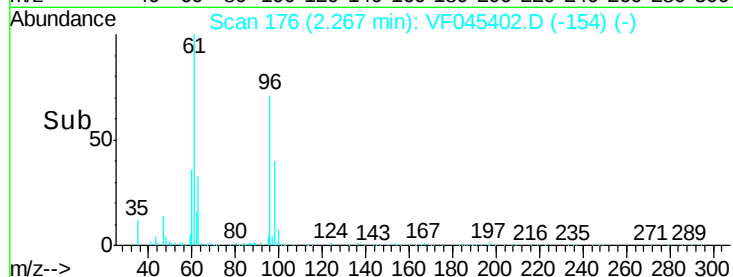
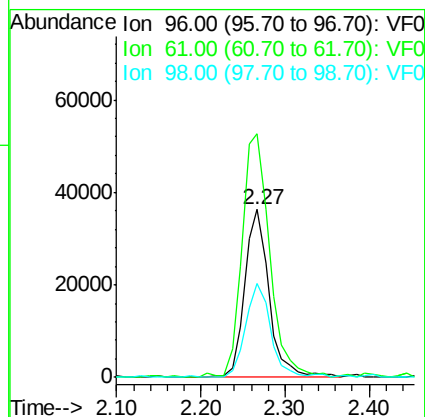
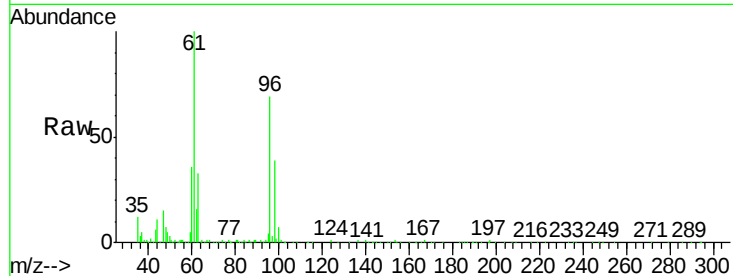
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	96	Resp:	73347
Ion	Ratio	Lower	Upper
96	100		
61	145.2	136.8	205.2
98	56.0	51.0	76.4

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#22

Diisopropyl ether

Concen: 9.73 ug/l

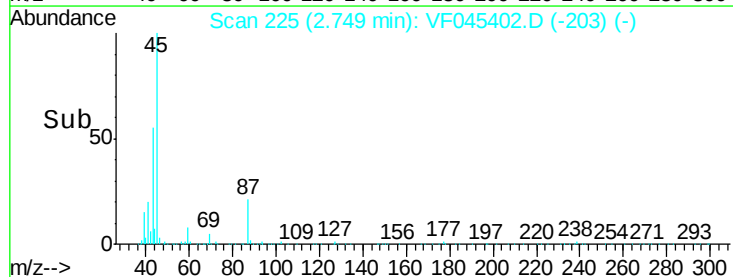
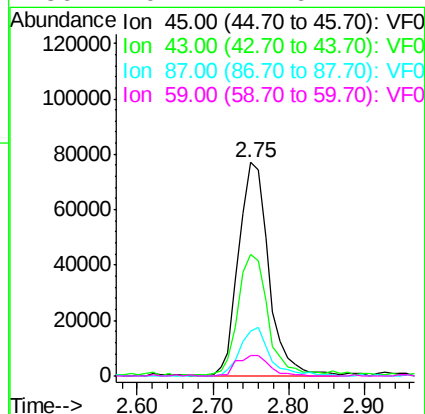
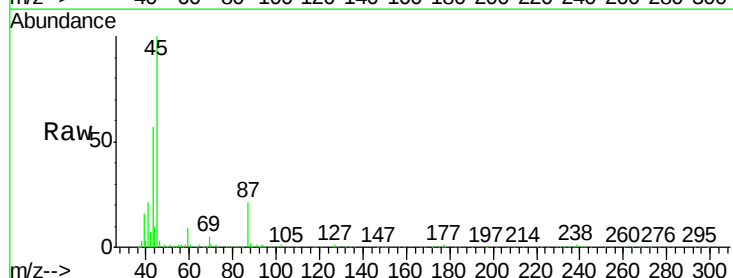
RT: 2.75 min Scan# 225

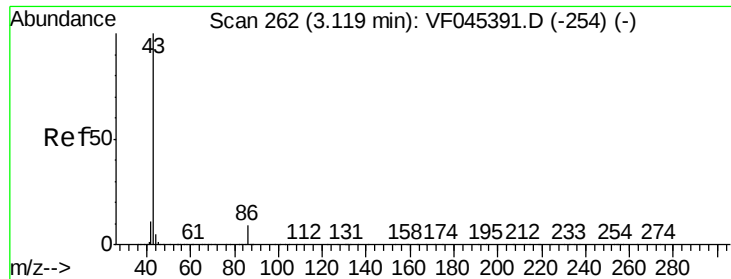
Delta R.T. 0.01 min

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

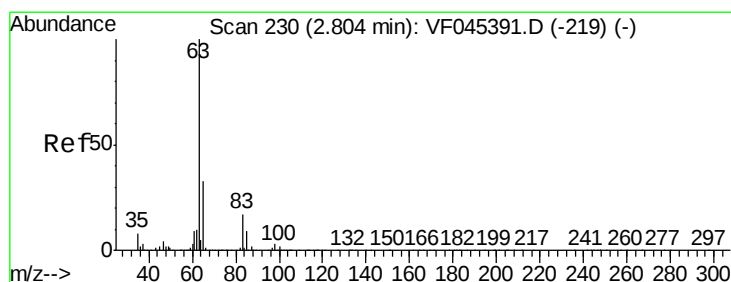
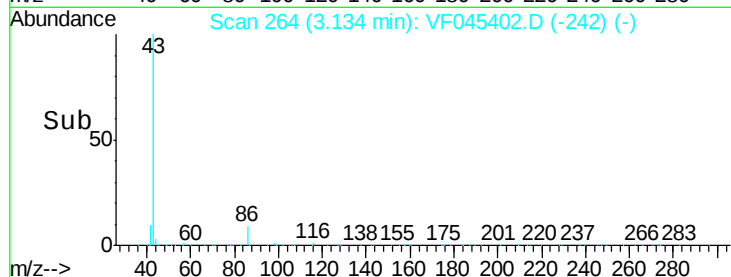
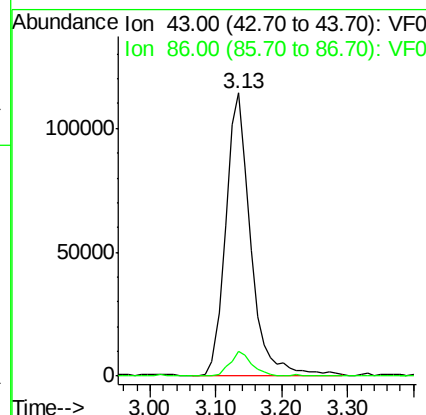
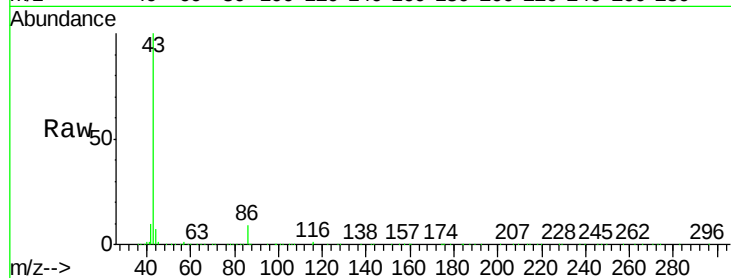
ClientSampleID :

LOQ-SOIL2015-02

Tot Ion	Ratio	Resp	Lower	Upper
43	100	305027		
86	8.9	6.3	9.5	

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#24

1,1-Dichloroethane

Concen: 9.81 ug/l

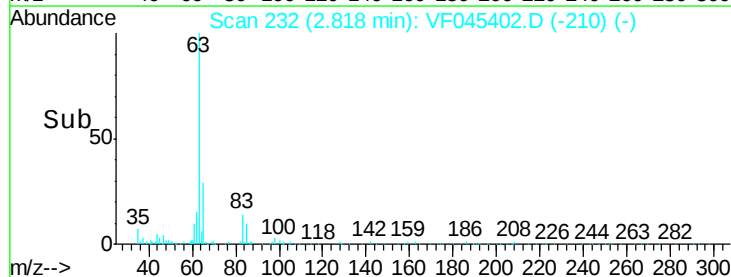
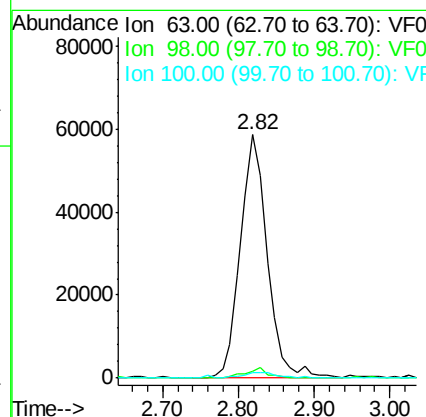
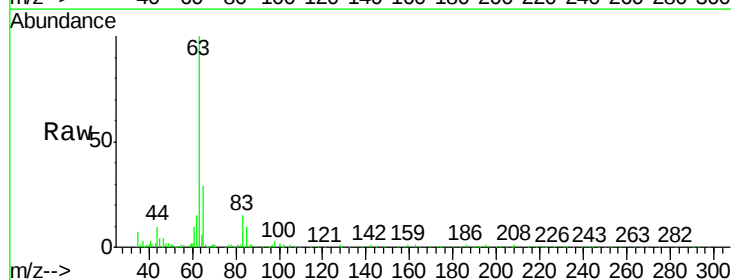
RT: 2.82 min Scan# 232

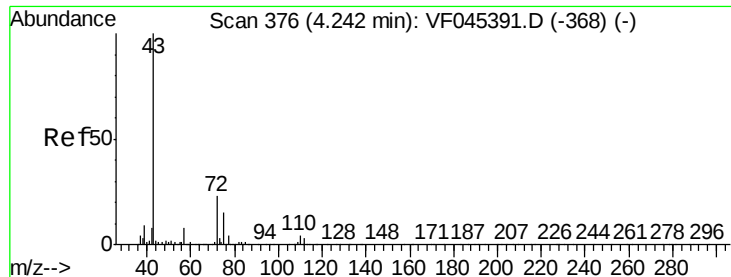
Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	144280		
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

Tot Ion: 43 Resp: 173358

Ion Ratio Lower Upper

43 100

72 28.2 20.2 30.2

Instrument :

MSVOA_F

ClientSampleId :

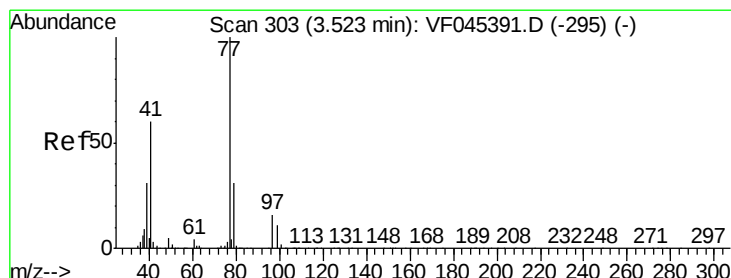
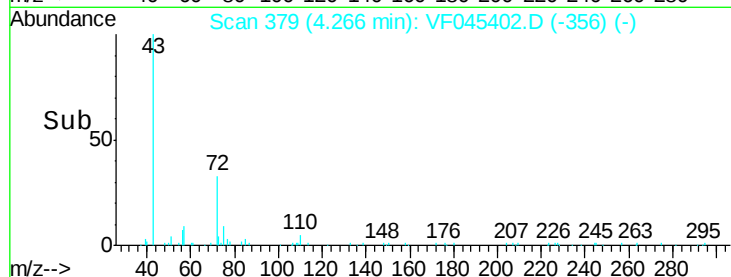
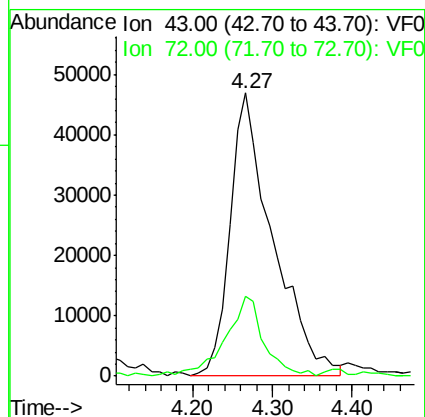
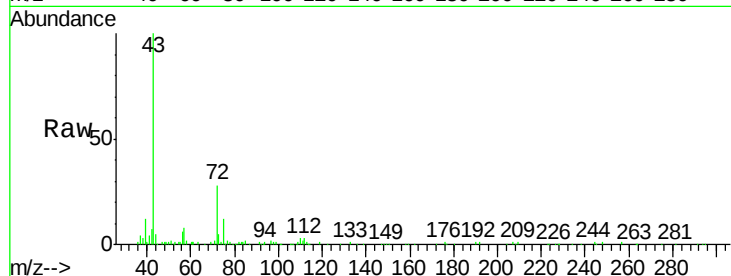
LOQ-SOIL2015-02

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#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

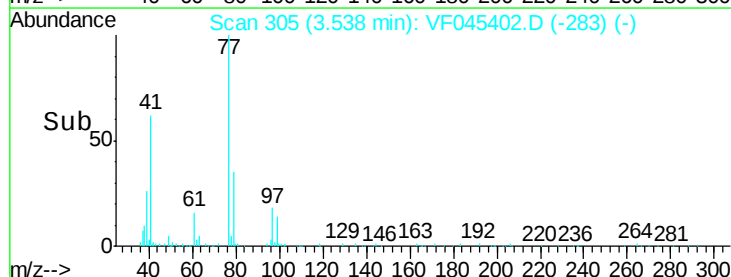
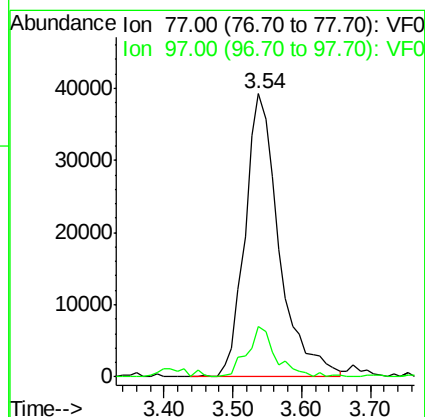
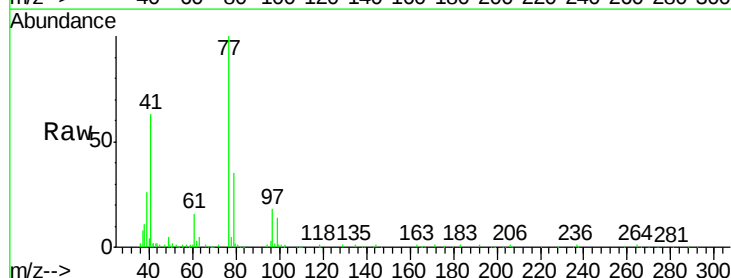
Acq: 16 Sep 2015 21:32

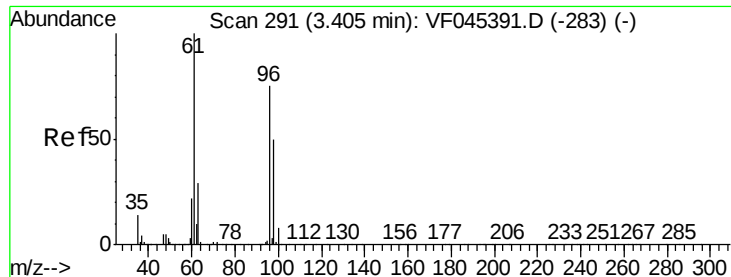
Tgt Ion: 77 Resp: 134921

Ion Ratio Lower Upper

77 100

97 17.7 9.2 27.4





#27

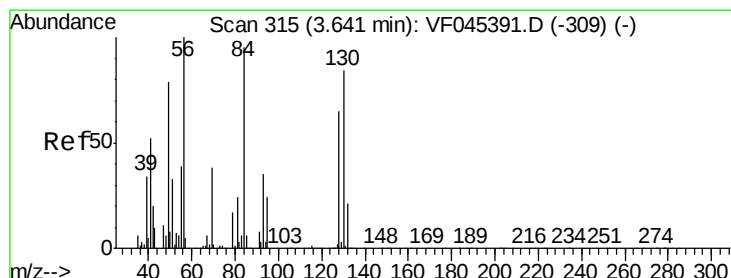
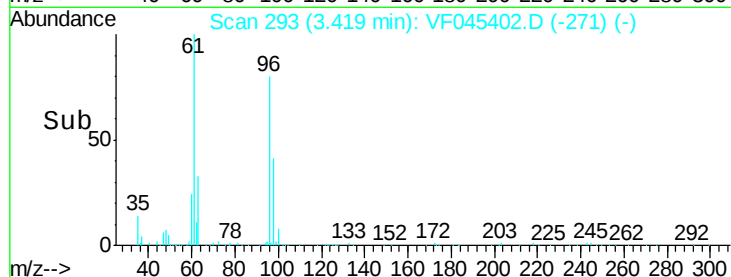
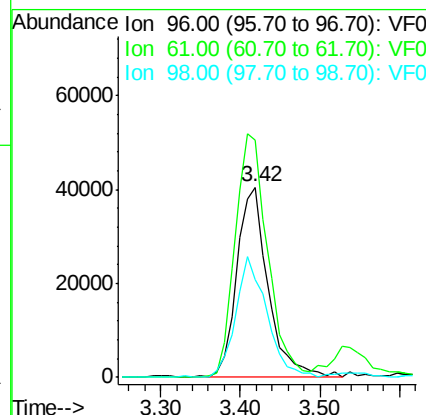
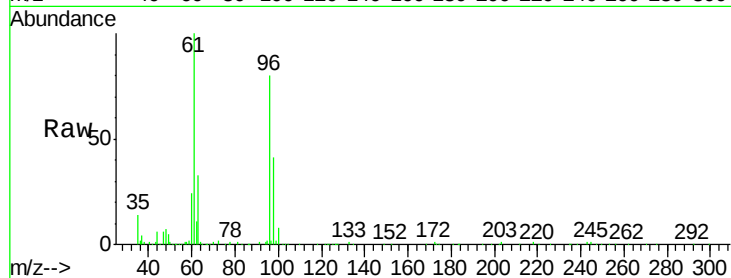
cis-1,2-Dichloroethene
Concen: 9.76 ug/l
RT: 3.42 min Scan# 293
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

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

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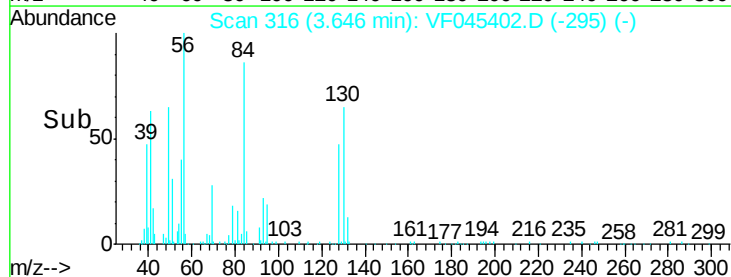
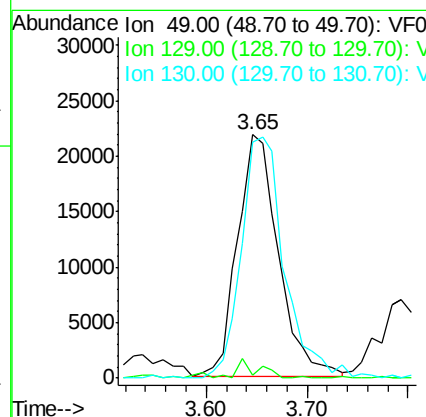
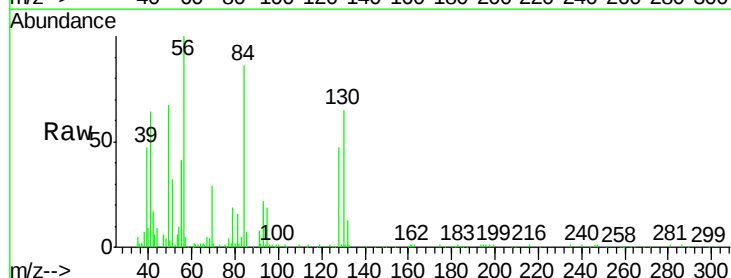
MMDadoda
9/17/2015 12:51:36 PM

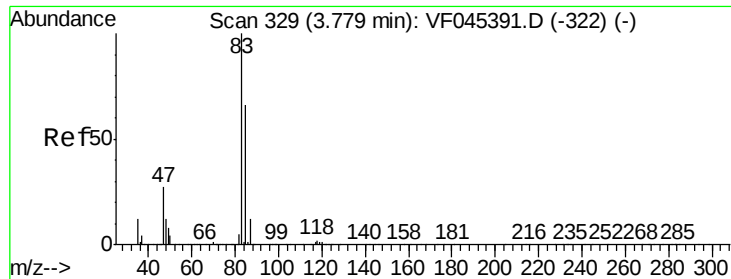


#28

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	Resp	Lower	Upper
49	100			
129	1.4	0.0	0.0#	
130	96.9	79.6	119.4	





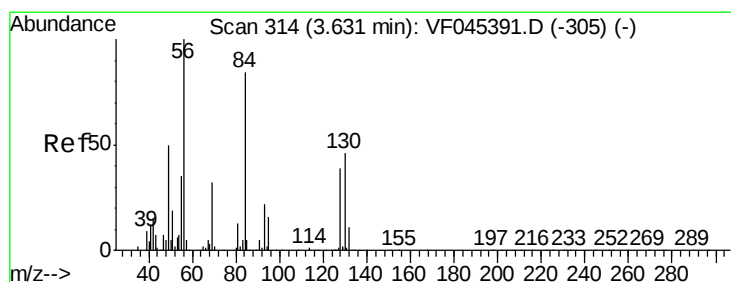
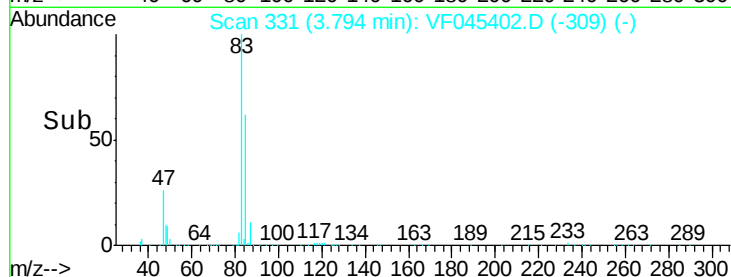
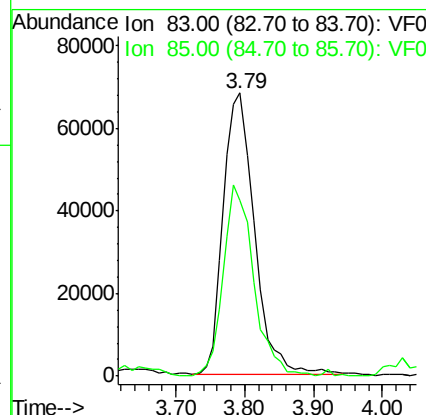
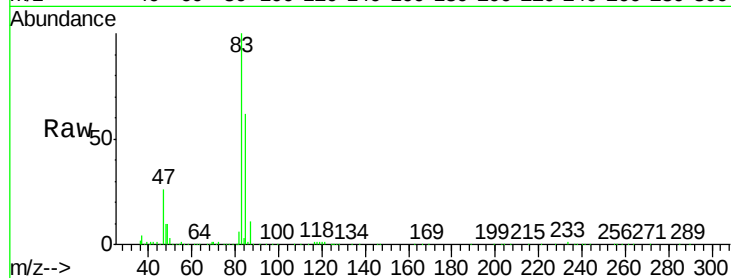
#29
Chloroform
Concen: 10.40 ug/l
RT: 3.79 min Scan# 331
Delta R.T. 0.01 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

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

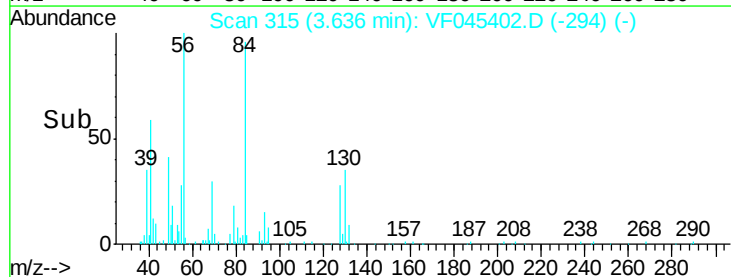
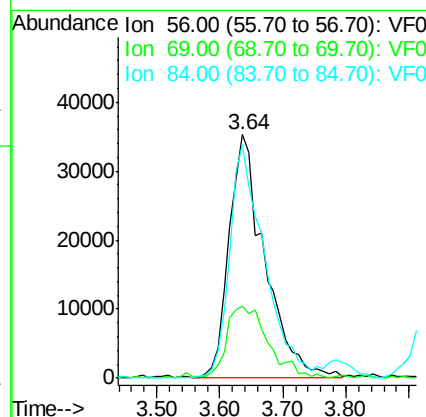
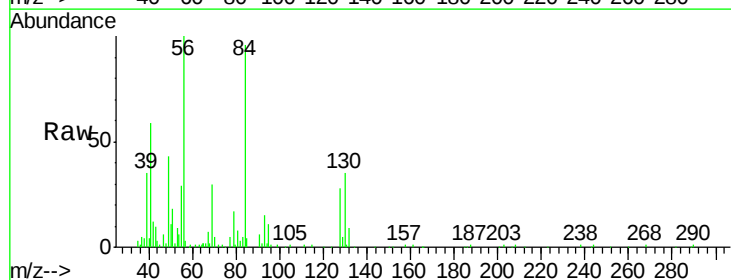
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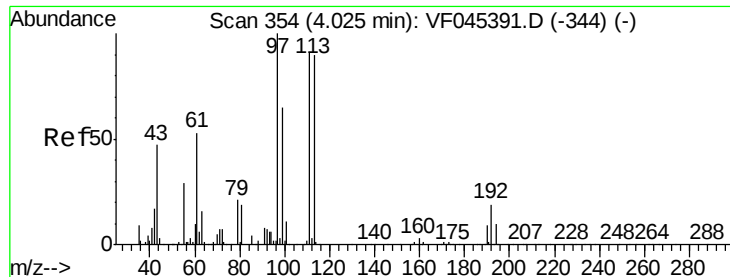
MMDadoda
9/17/2015 12:51:36 PM



#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	100	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

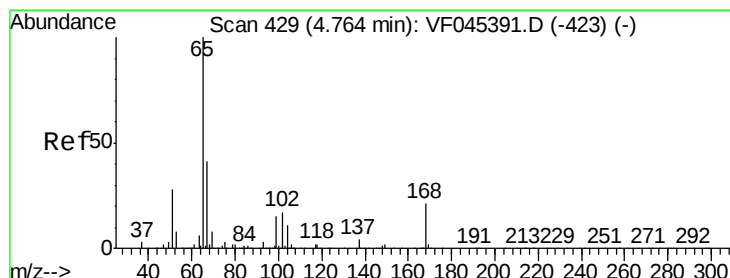
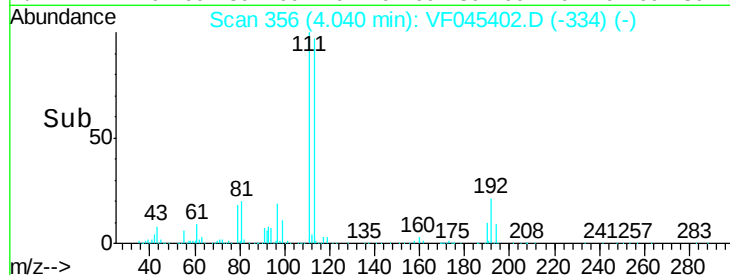
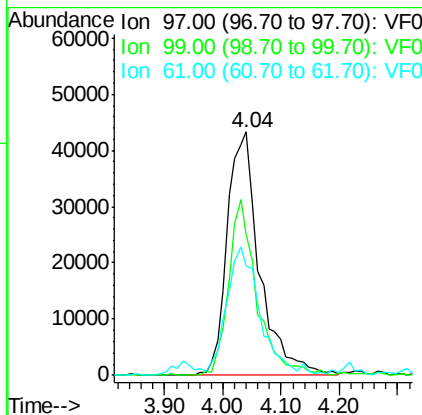
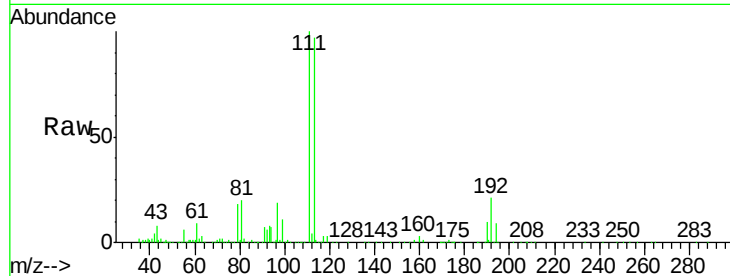
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	97	Resp:	167820
Ion Ratio	Lower	Upper	
97	100		
99	57.9	51.1	76.7
61	45.1	37.8	56.6

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#32

1,2-Dichloroethane-d4

Concen: 52.30 ug/l

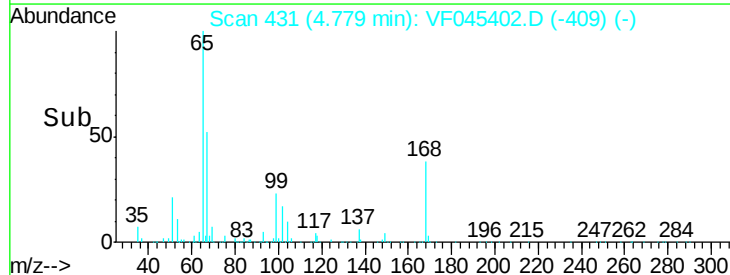
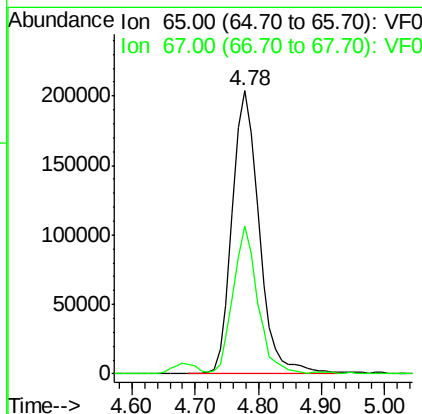
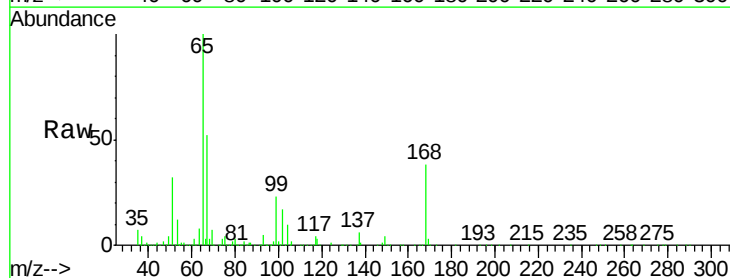
RT: 4.78 min Scan# 431

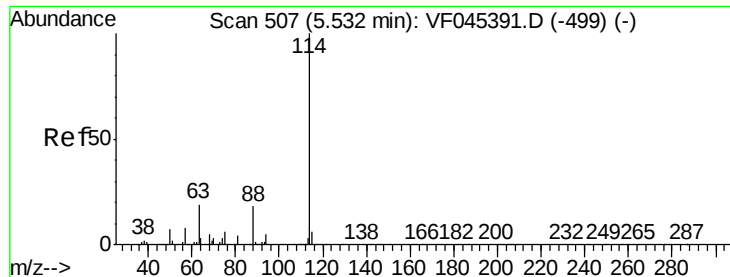
Delta R.T. 0.01 min

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





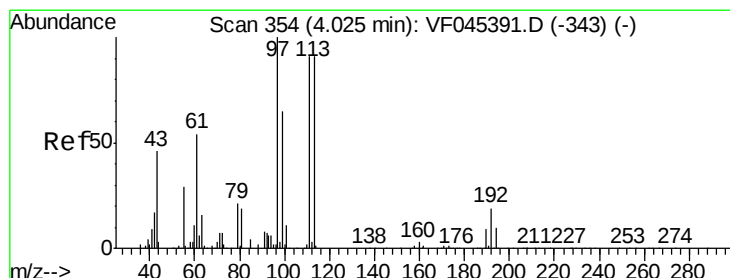
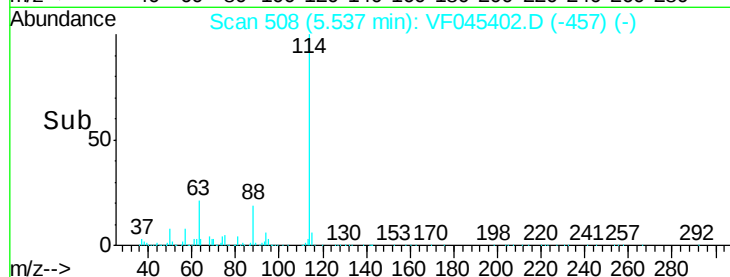
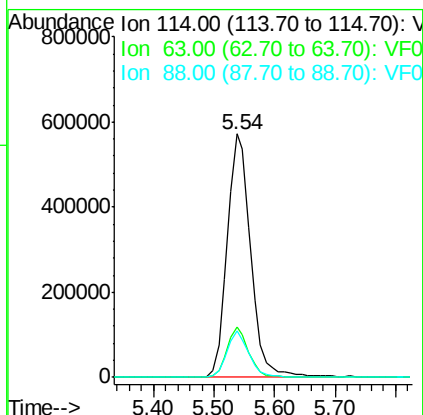
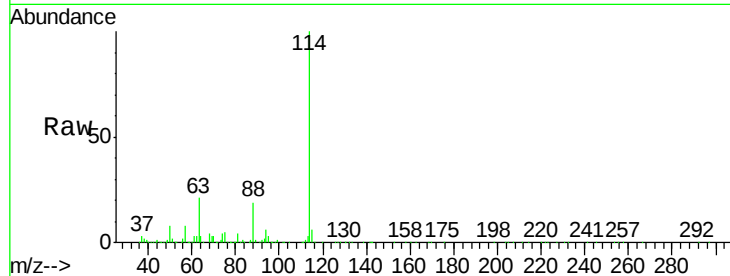
#33
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.54 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tot Ion	Ratio	Resp	Lower	Upper
114	100	1539115		
63	20.8		0.0	39.2
88	18.9		0.0	37.0

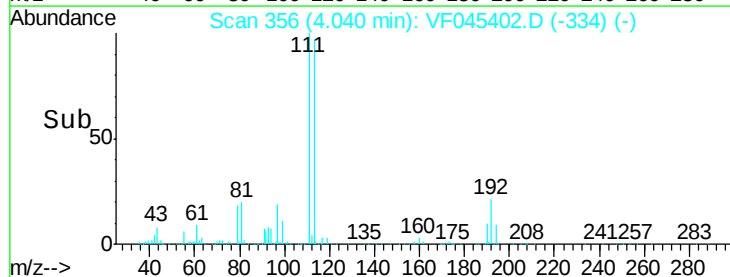
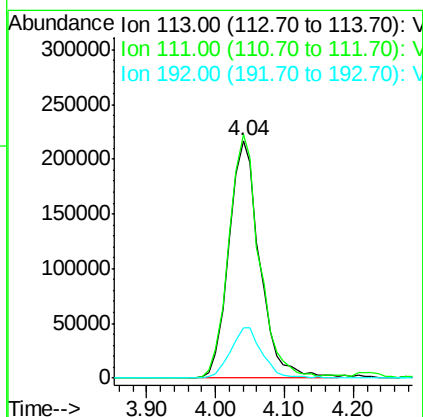
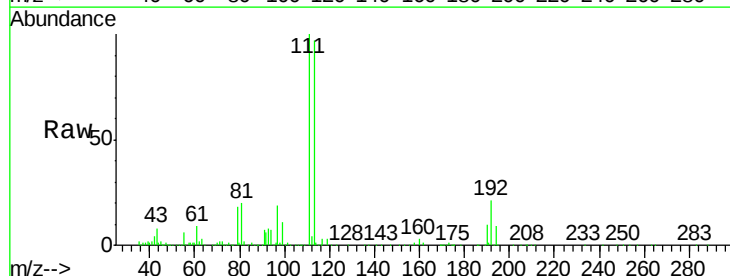
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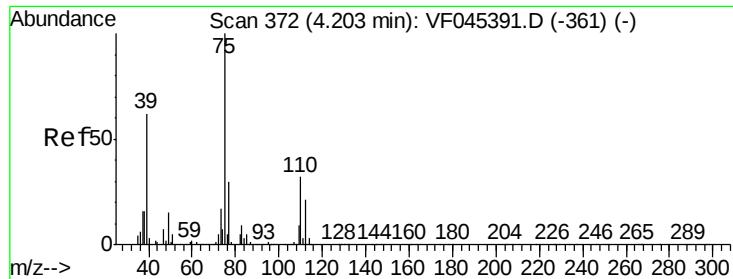
MMDadoda
 9/17/2015 12:51:36 PM



#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	Ratio	Resp	Lower	Upper
113	100	671484		
111	102.6		75.5	113.3
192	21.8		15.6	23.4





#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

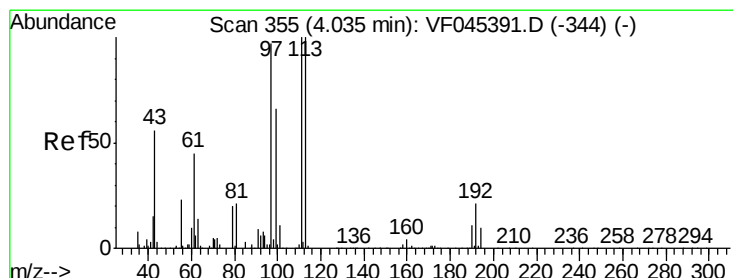
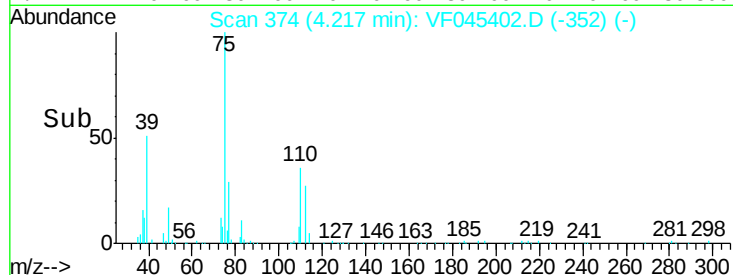
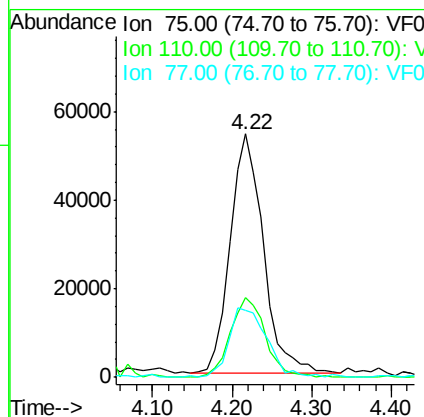
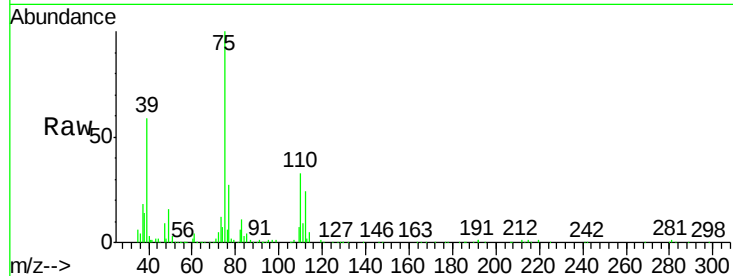
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	75	Resp:	158095
Ion Ratio	Lower	Upper	
75	100		
110	32.5	15.9	47.6
77	27.5	24.2	36.4

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#36

Ethyl Acetate

Concen: 11.09 ug/l

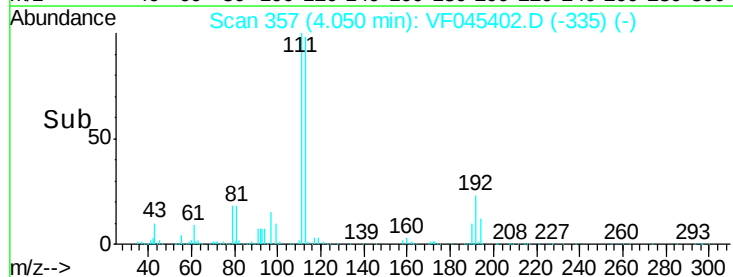
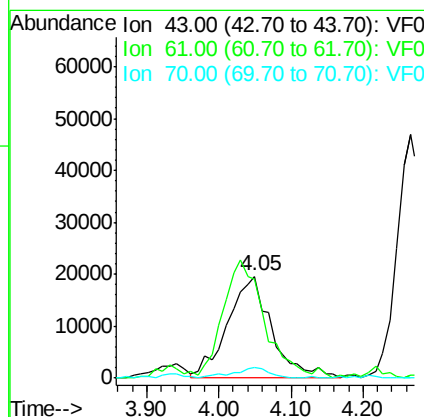
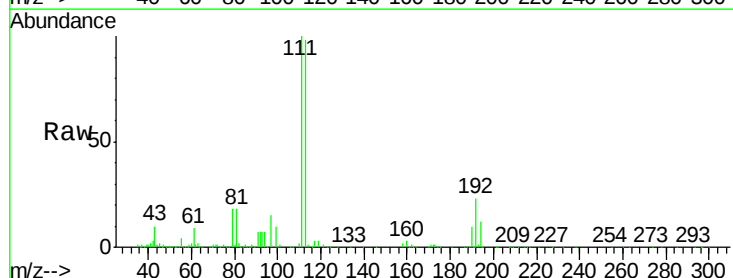
RT: 4.05 min Scan# 357

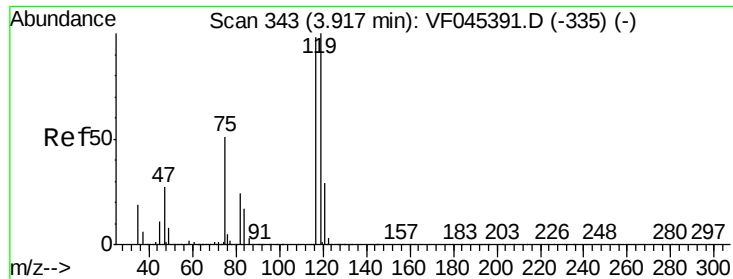
Delta R.T. 0.01 min

Lab File: VF045402.D

Acq: 16 Sep 2015 21:32

Tgt Ion:	43	Resp:	81962
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

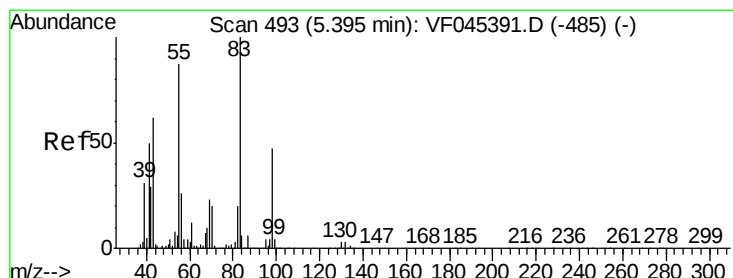
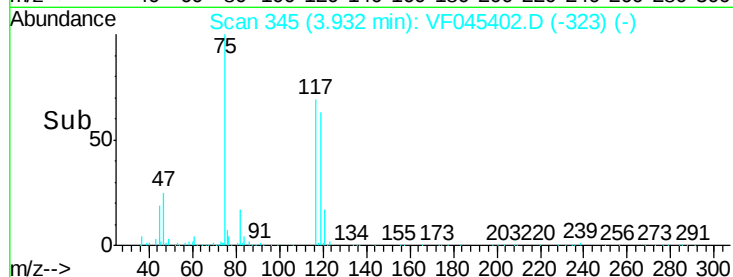
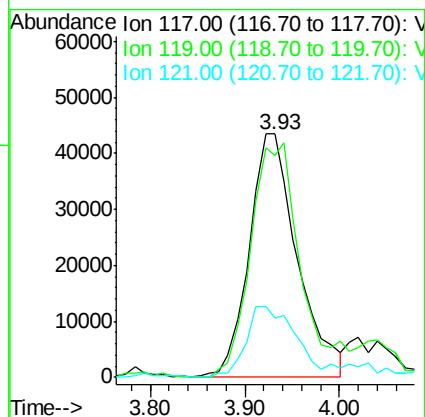
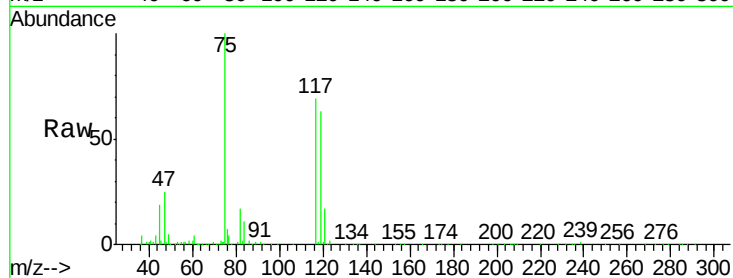
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	117	Resp:	151821
Ion Ratio	Lower	Upper	
117	100		
119	91.3	77.8	116.8
121	24.6	25.4	38.0#

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#38

Methylcyclohexane

Concen: 10.61 ug/l

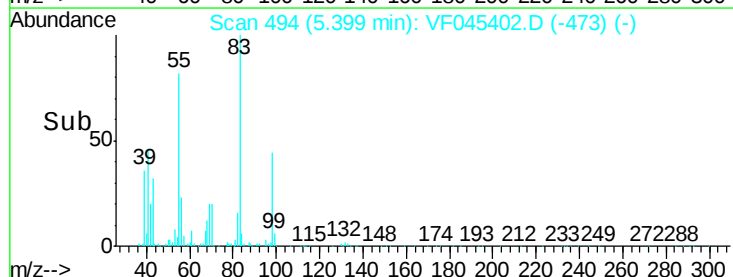
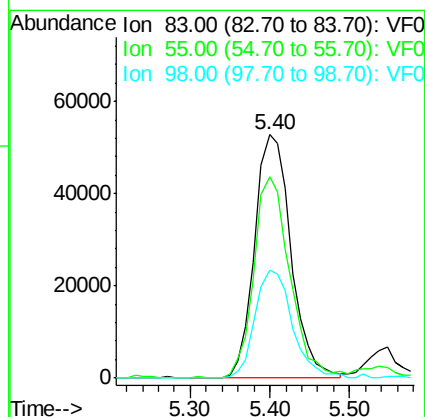
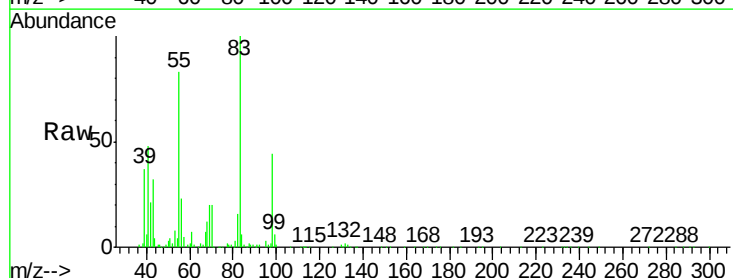
RT: 5.40 min Scan# 494

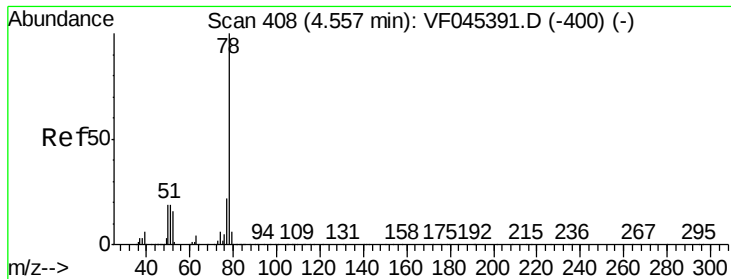
Delta R.T. 0.00 min

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

Tot Ion: 78 Resp: 382498

Ion Ratio Lower Upper

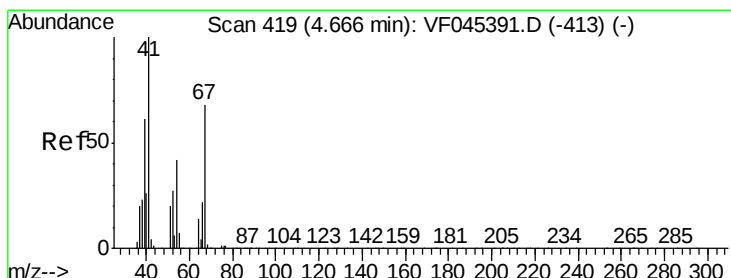
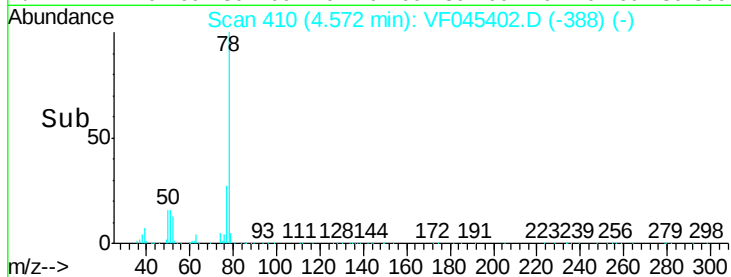
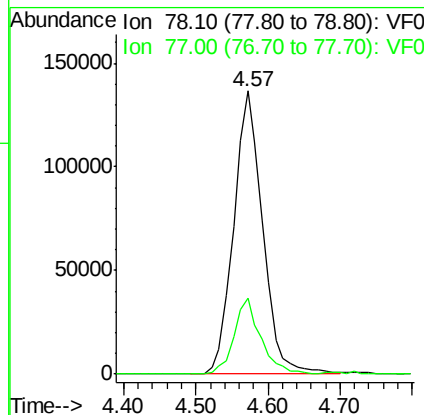
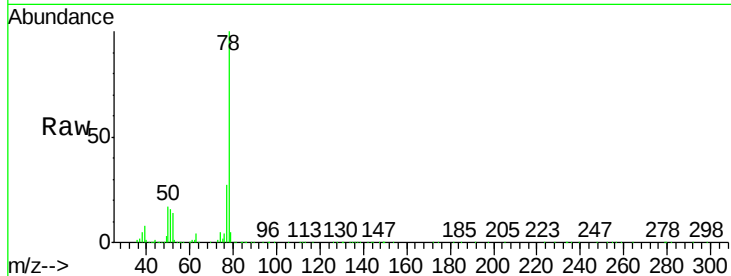
78 100

77 26.7 18.6 28.0

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#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

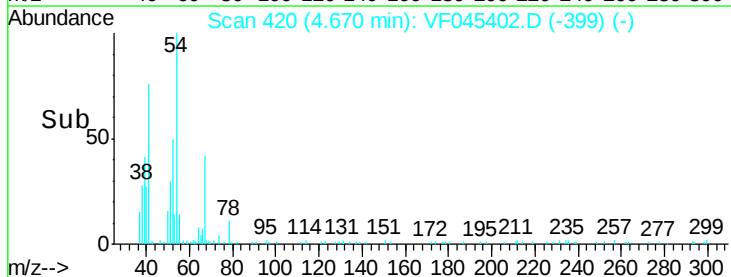
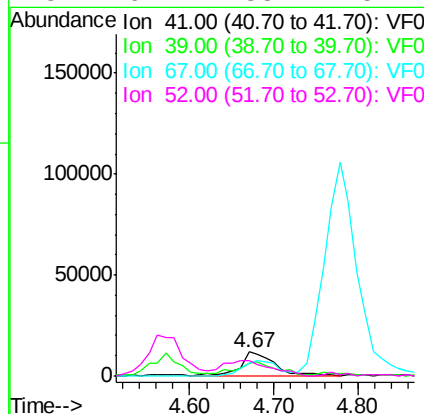
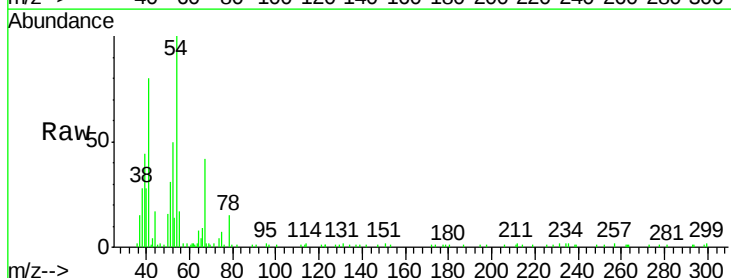
Ion Ratio Lower Upper

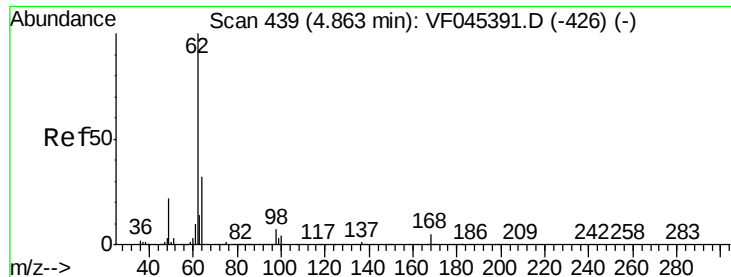
41 100

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

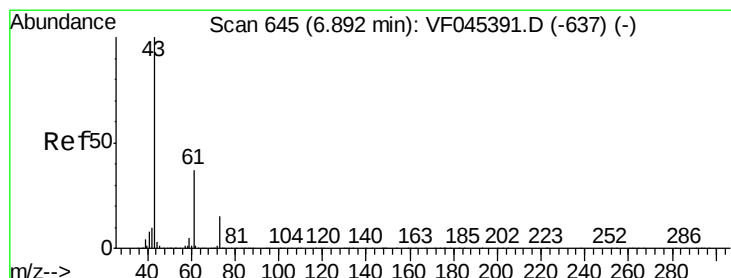
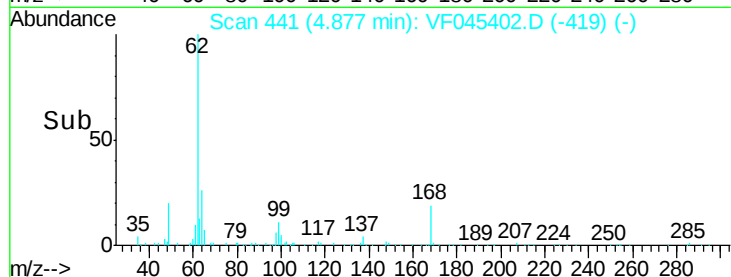
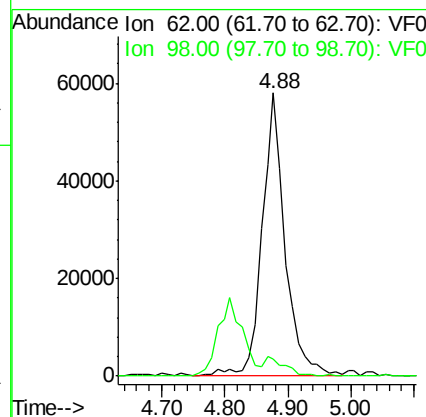
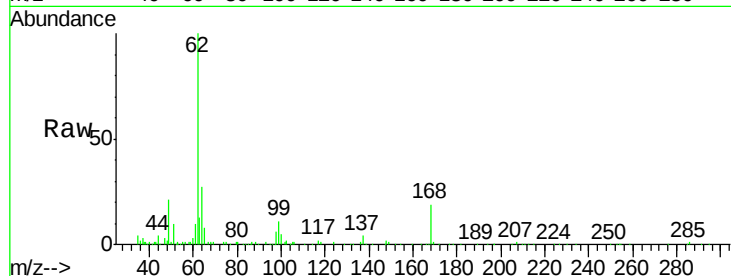
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	62	Resp:	148451
Ion Ratio		Lower	Upper
62	100		
98	6.1	0.0	17.0

Manual Integrations
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#42

Isopropyl Acetate

Concen: 10.64 ug/l

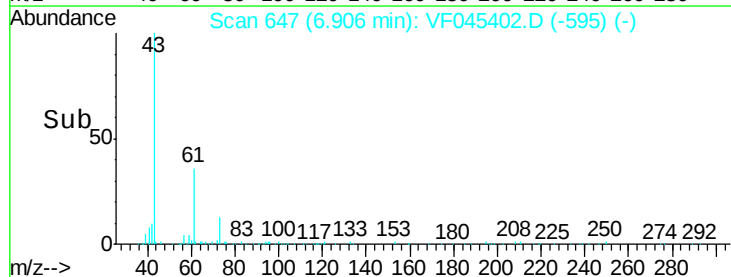
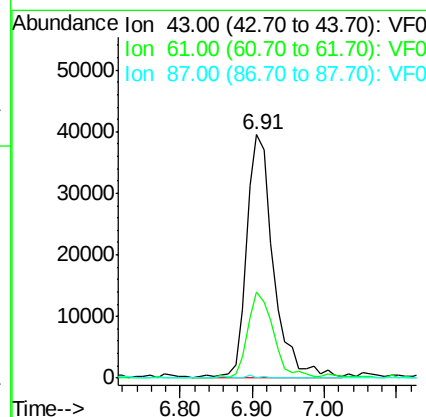
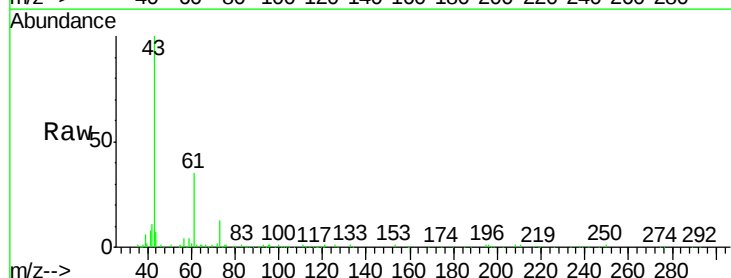
RT: 6.91 min Scan# 647

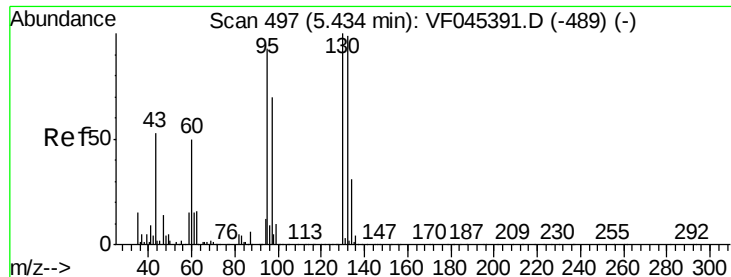
Delta R.T. 0.01 min

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

Tot Ion:130 Resp: 119419

Ion Ratio Lower Upper

130 100

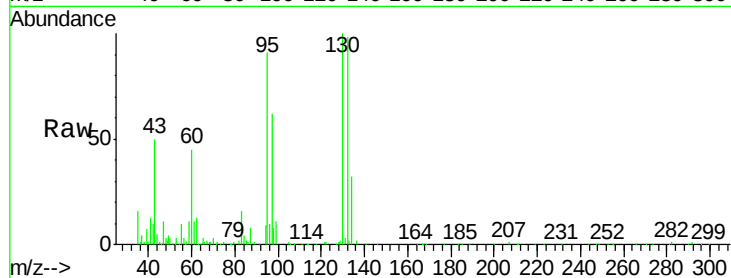
95 91.2 0.0 192.2

Manual Integrations

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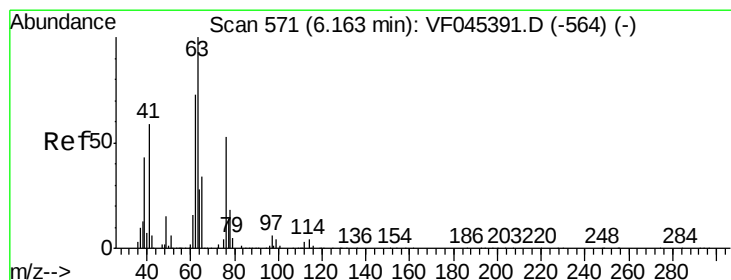
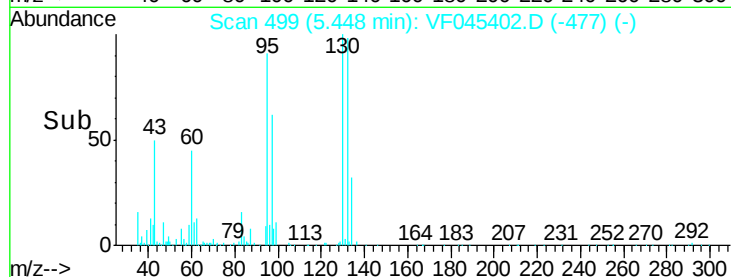
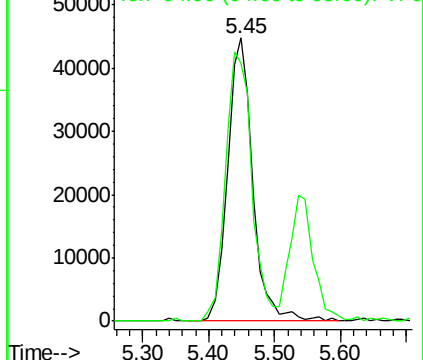
MMDadoda

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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

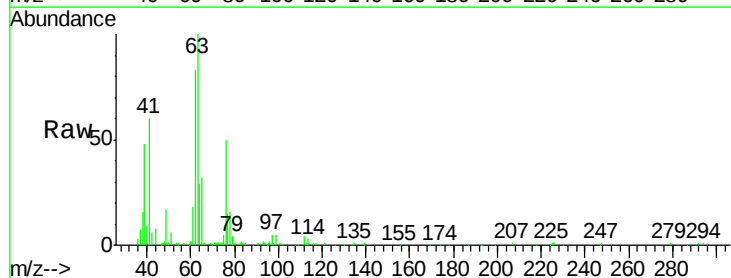
Acq: 16 Sep 2015 21:32

Tgt Ion: 63 Resp: 101069

Ion Ratio Lower Upper

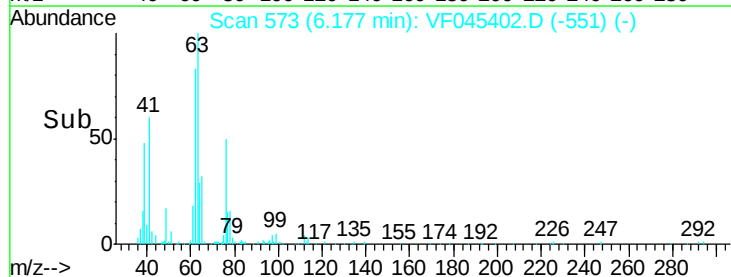
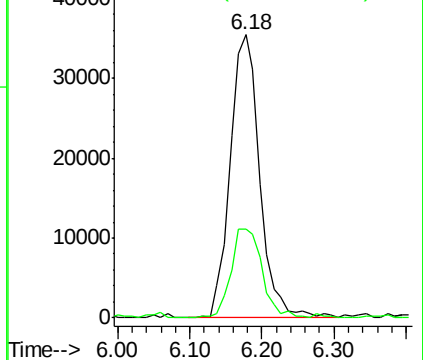
63 100

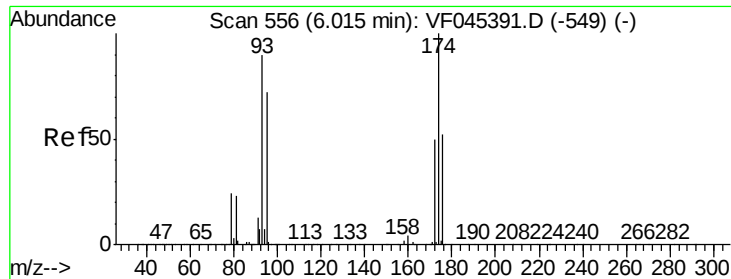
65 31.6 25.6 38.4



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

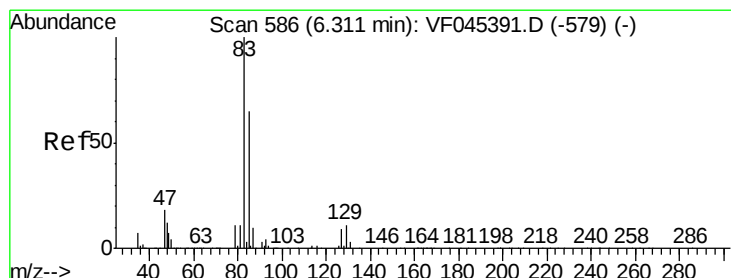
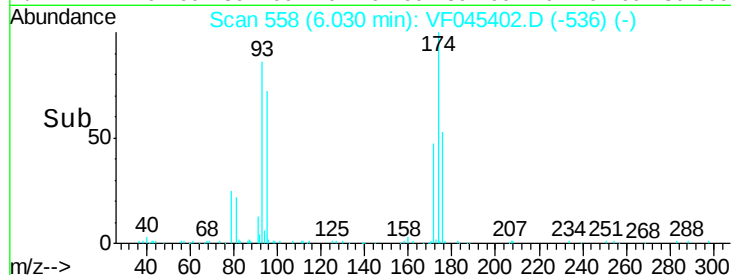
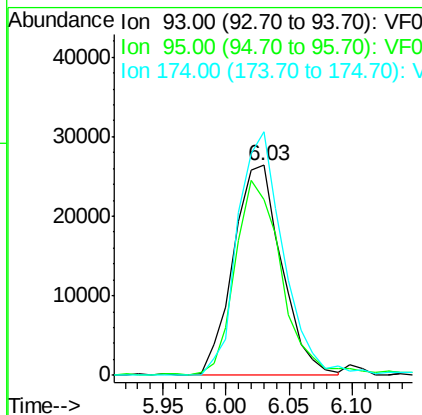
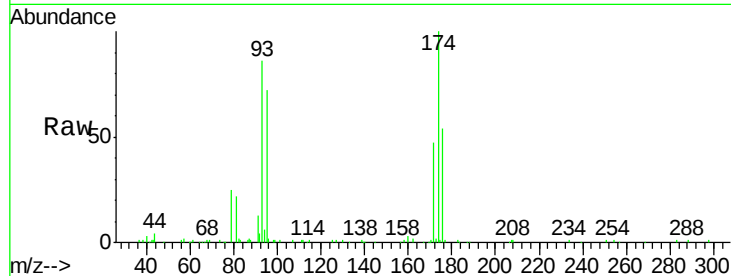
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	93	Resp:	70266
Ion	Ratio	Lower	Upper
93	100		
95	83.7	69.8	104.6
174	117.4	90.5	135.7

Manual Integrations
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#46

Bromodichloromethane

Concen: 10.04 ug/l

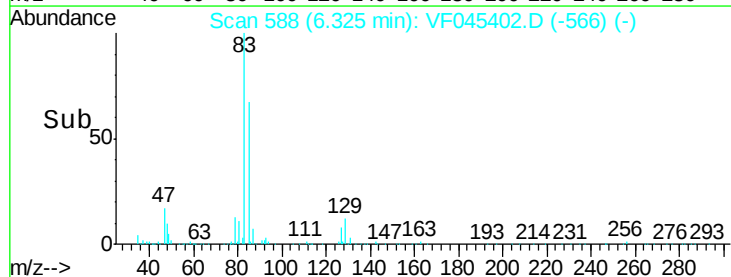
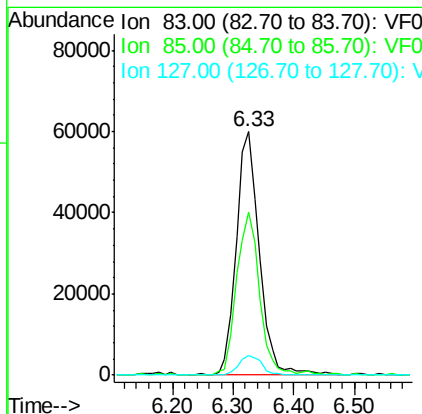
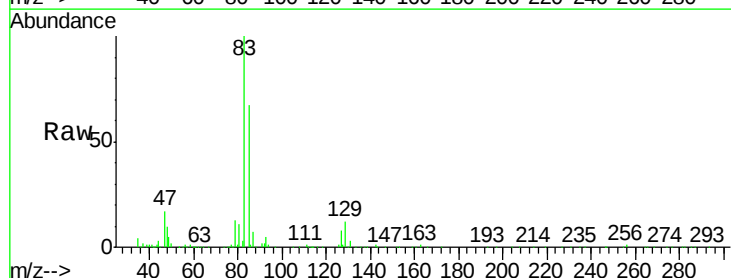
RT: 6.33 min Scan# 588

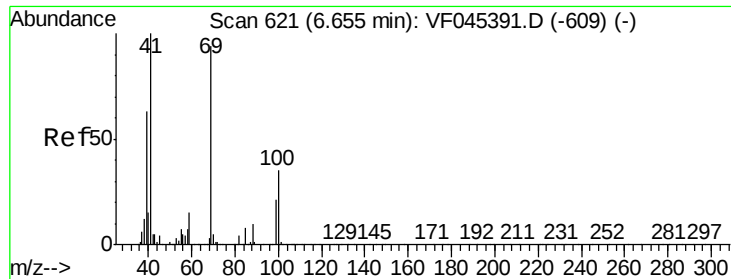
Delta R.T. 0.01 min

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

Methvl 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

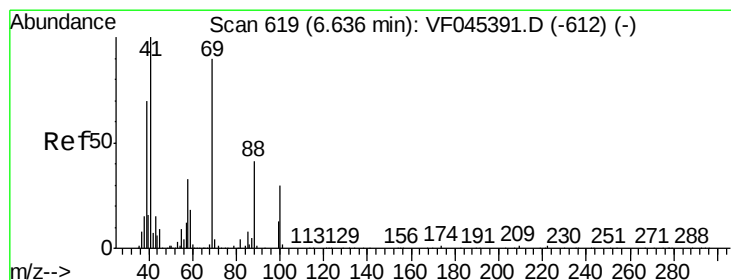
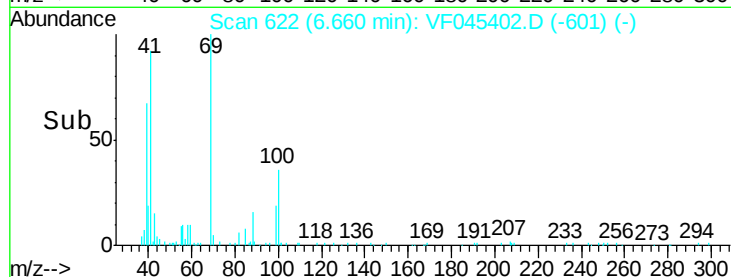
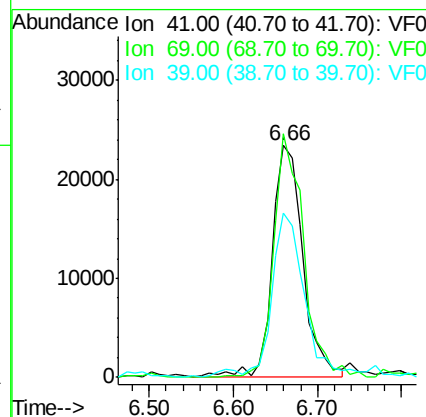
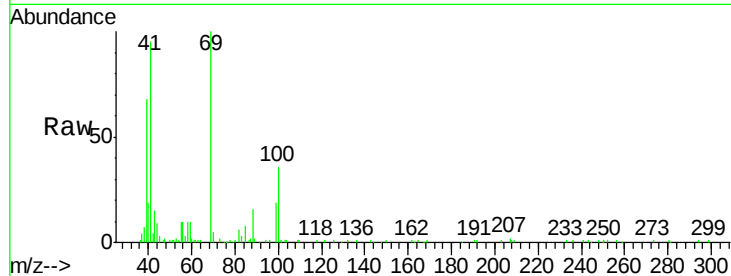
ClientSampleId :

LOQ-SOIL2015-02

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

Manual Integrations
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#48

1,4-Dioxane

Concen: 203.05 ug/l

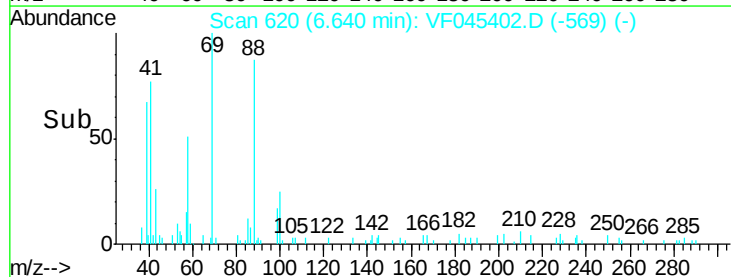
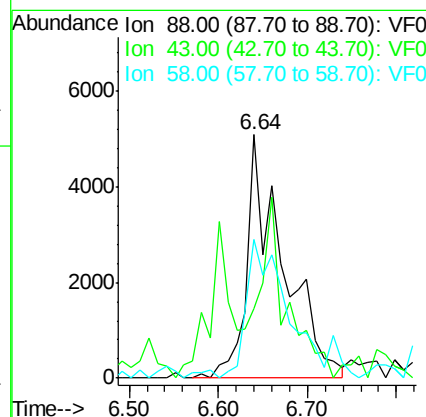
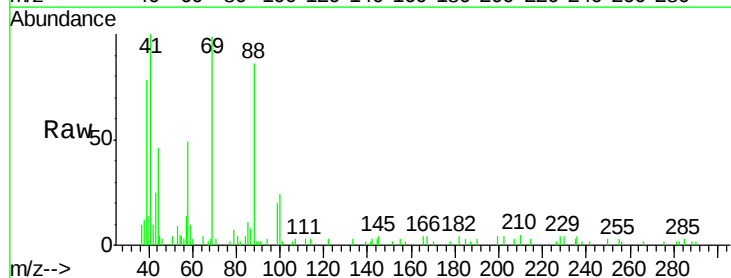
RT: 6.64 min Scan# 620

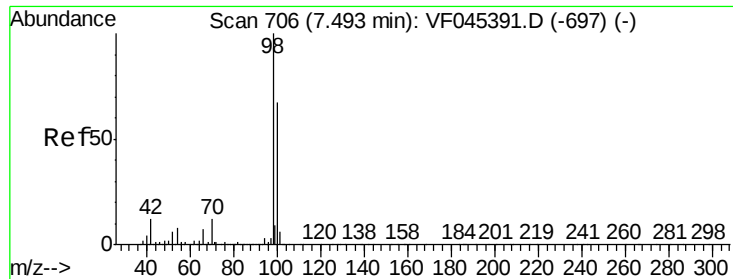
Delta R.T. 0.00 min

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

Tot Ion: 98 Resp: 1888338

Ion Ratio Lower Upper

98 100

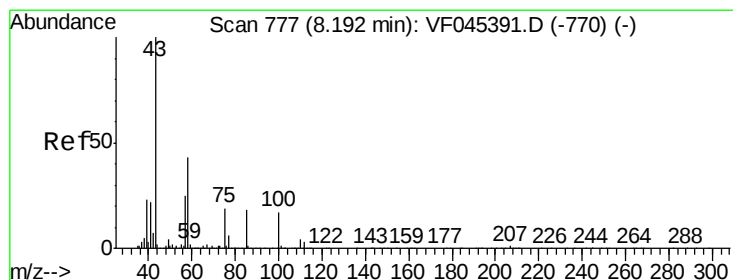
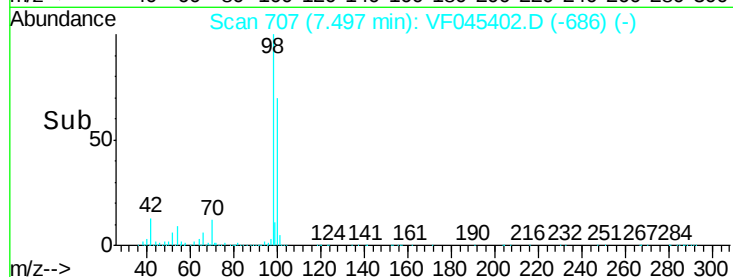
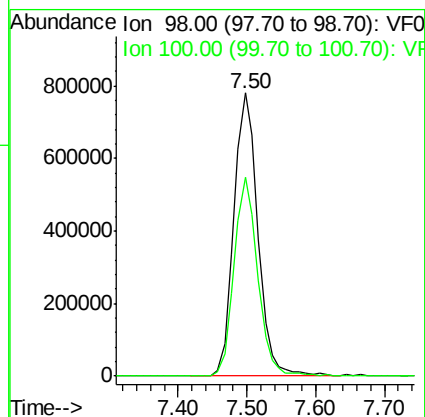
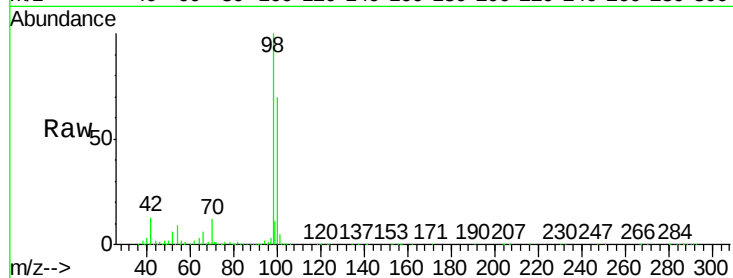
100 70.1 54.4 81.6

Manual Integrations

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#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

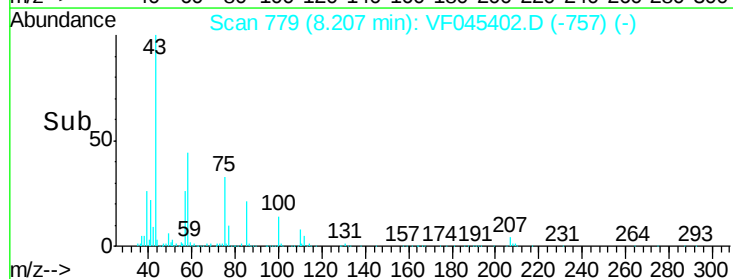
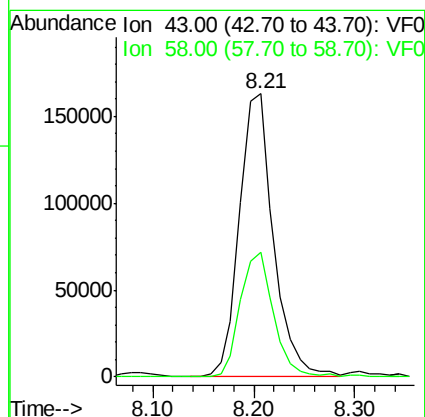
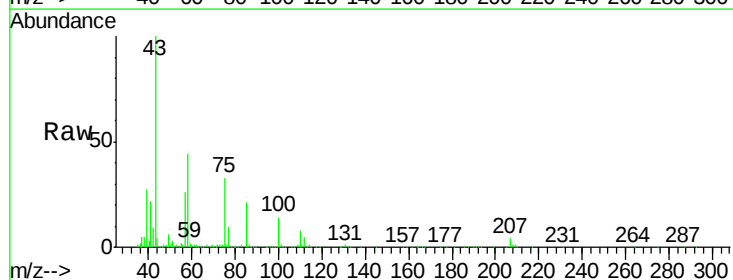
Acq: 16 Sep 2015 21:32

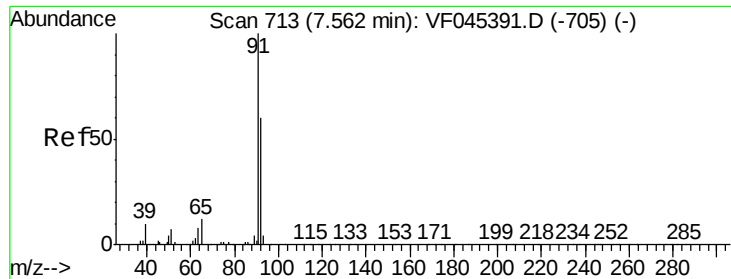
Tgt Ion: 43 Resp: 382665

Ion Ratio Lower Upper

43 100

58 44.2 33.6 50.4





#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

Tot Ion: 92 Resp: 287659

Ion Ratio Lower Upper

92 100

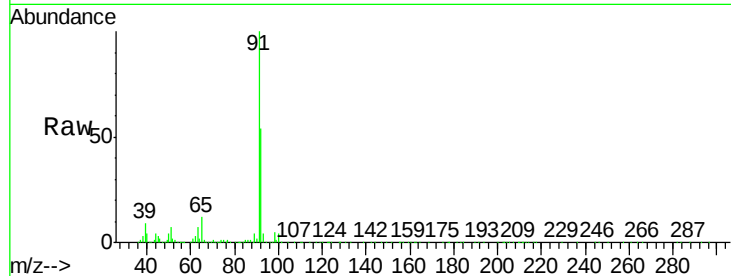
91 184.6 133.4 200.0

Manual Integrations

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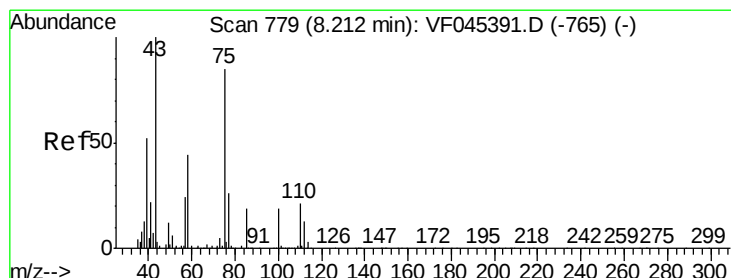
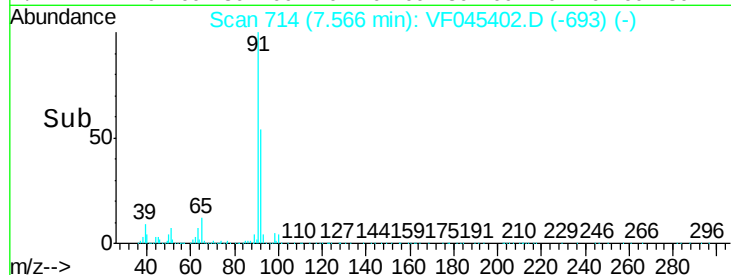
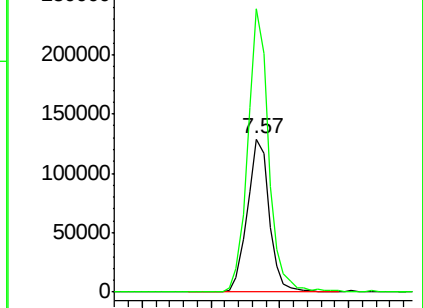
MMDadoda

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Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#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

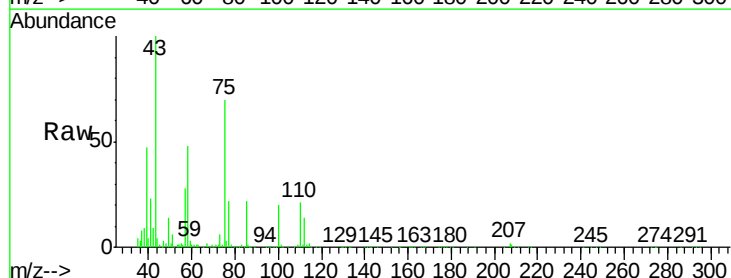
Acq: 16 Sep 2015 21:32

Tgt Ion: 75 Resp: 144606

Ion Ratio Lower Upper

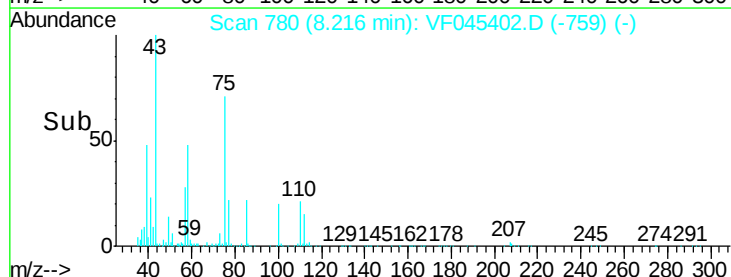
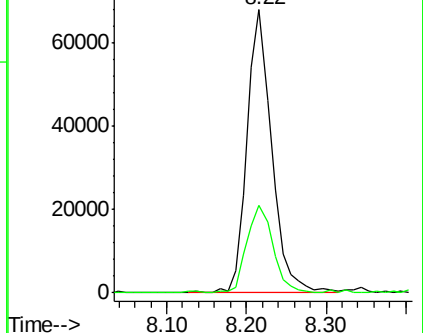
75 100

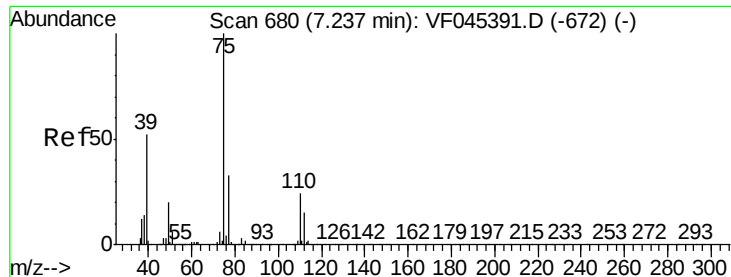
77 30.7 28.1 42.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#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

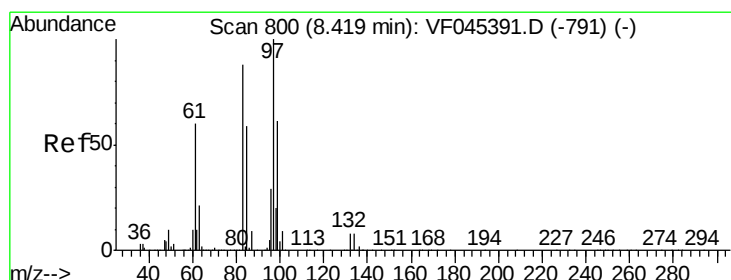
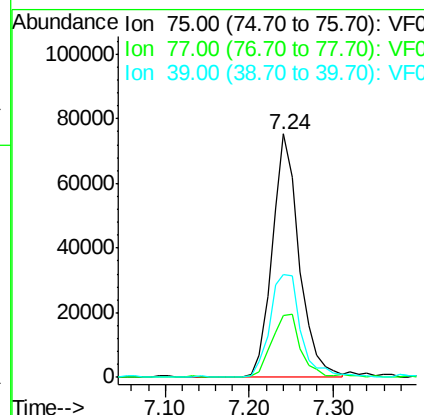
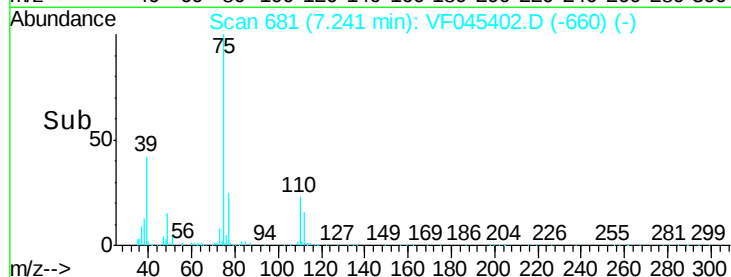
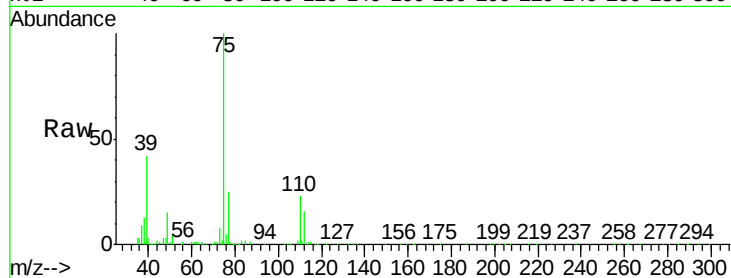
ClientSampleId :

LOQ-SOIL2015-02

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

Manual Integrations
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#54

1,1,2-Trichloroethane

Concen: 10.04 ug/l

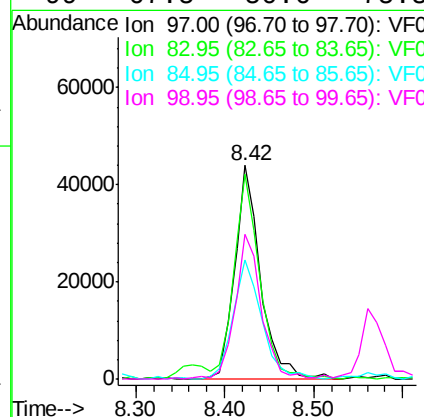
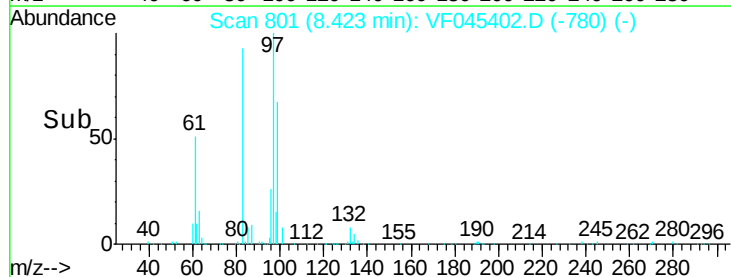
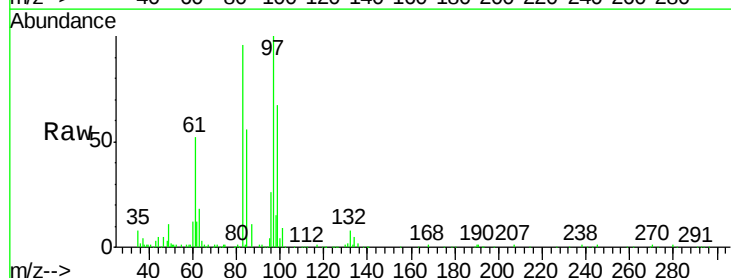
RT: 8.42 min Scan# 801

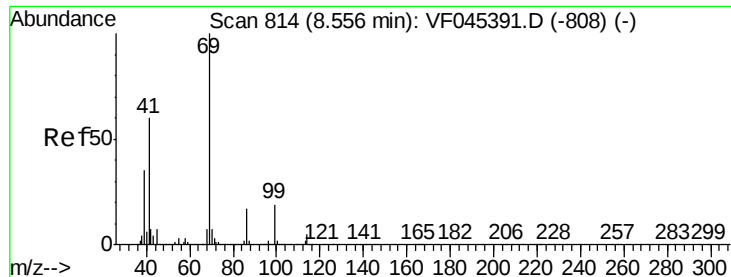
Delta R.T. 0.00 min

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

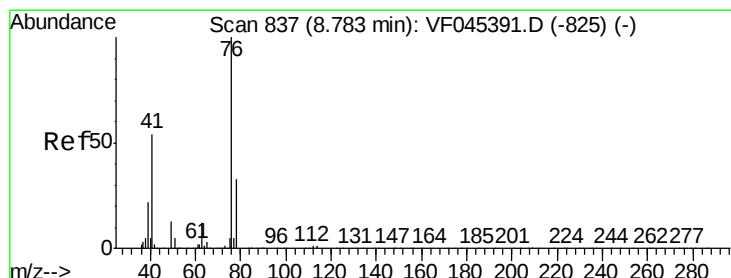
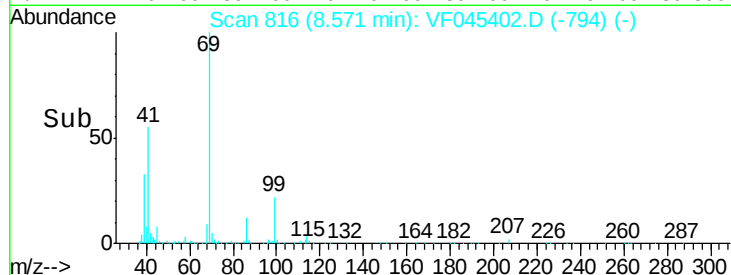
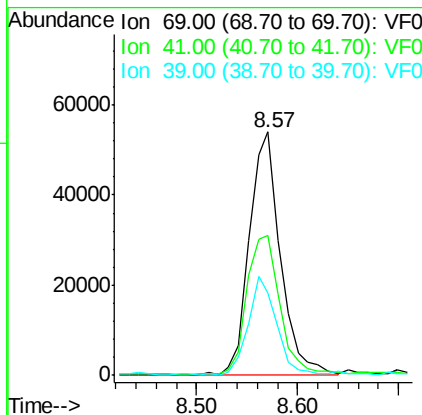
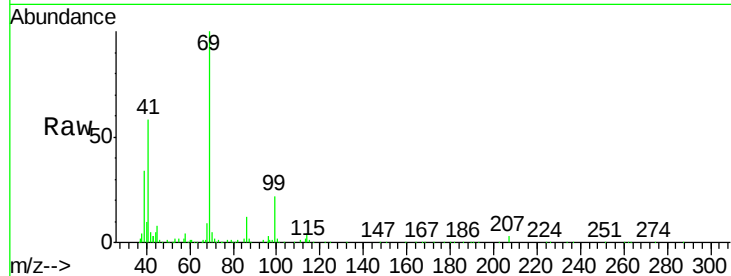
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	69	Resp:	116435
Ion	Ratio	Lower	Upper
69	100		
41	57.6	51.0	76.4
39	33.8	29.1	43.7

Manual Integrations
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#56

1,3-Dichloropropane

Concen: 11.04 ug/l

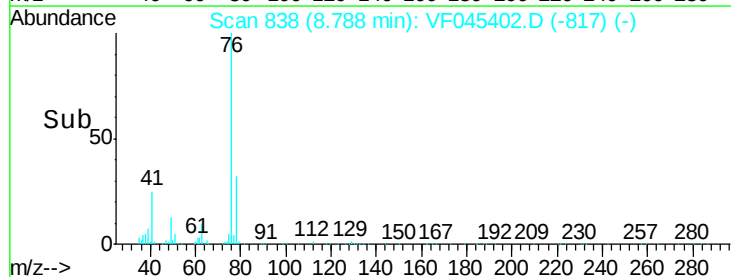
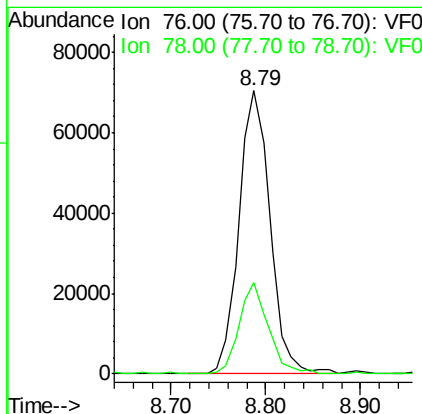
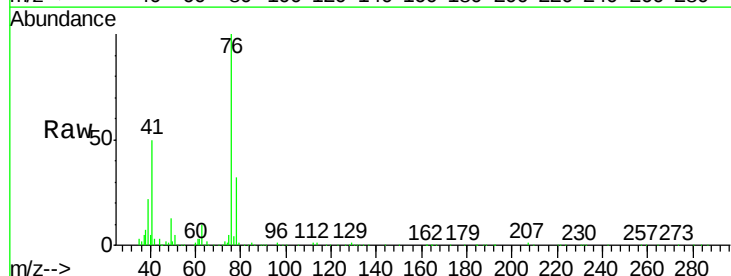
RT: 8.79 min Scan# 838

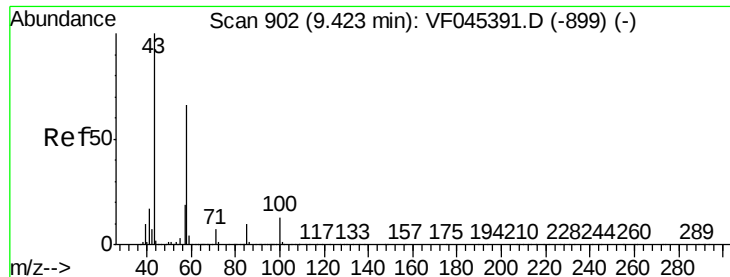
Delta R.T. 0.00 min

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





#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

Tot Ion: 43 Resp: 290731

Ion Ratio Lower Upper

43 100

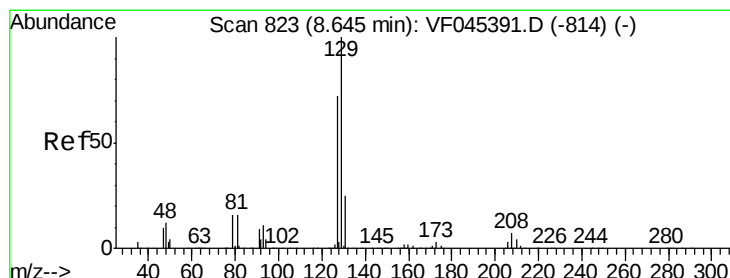
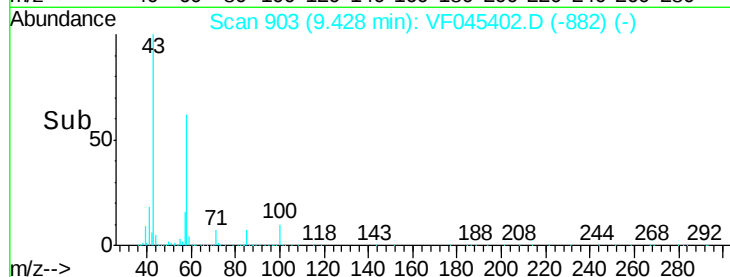
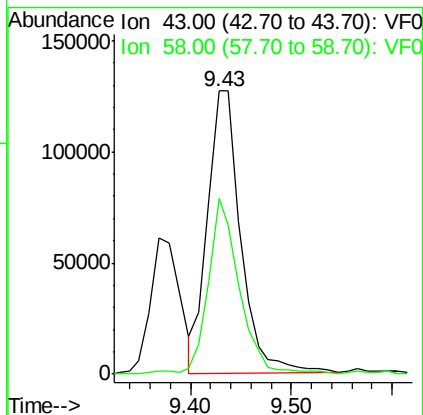
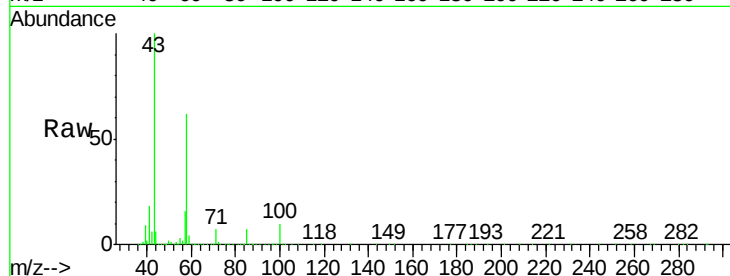
58 62.3 28.8 86.5

Manual Integrations

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#59

Dibromochloromethane

Concen: 9.61 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.00 min

Lab File: VF045402.D

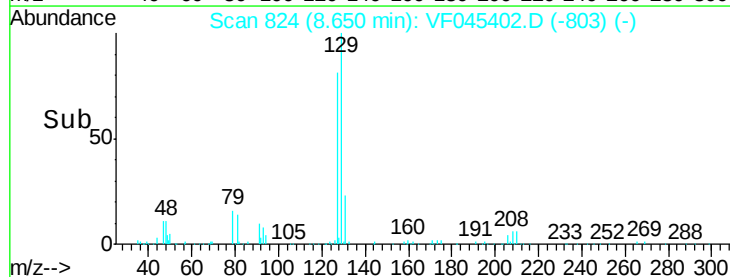
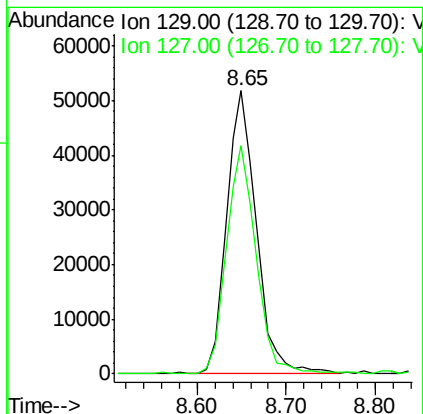
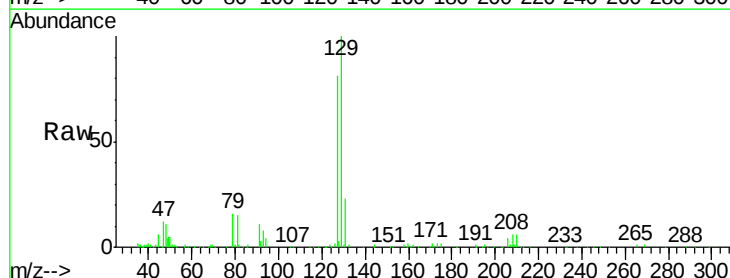
Acq: 16 Sep 2015 21:32

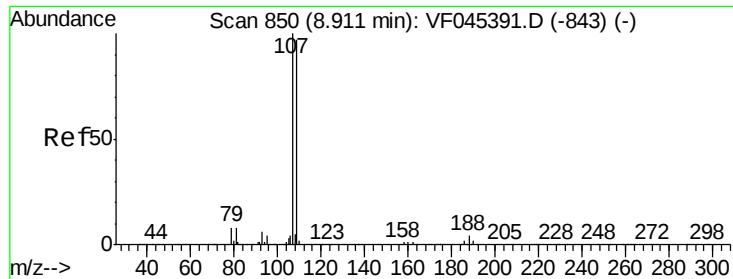
Tgt Ion: 129 Resp: 121151

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

Tot Ion:107 Resp: 109276

Ion Ratio Lower Upper

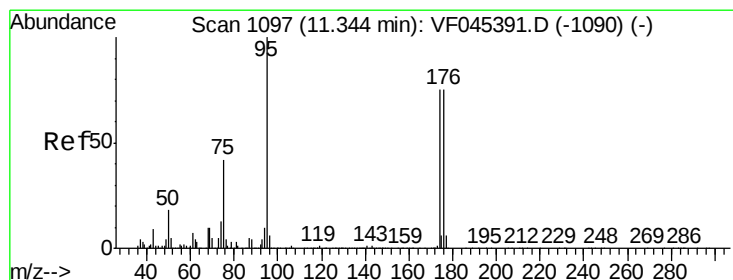
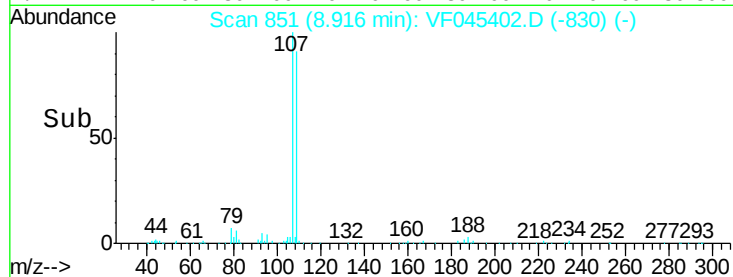
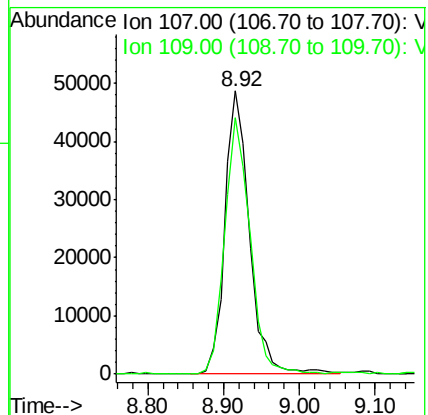
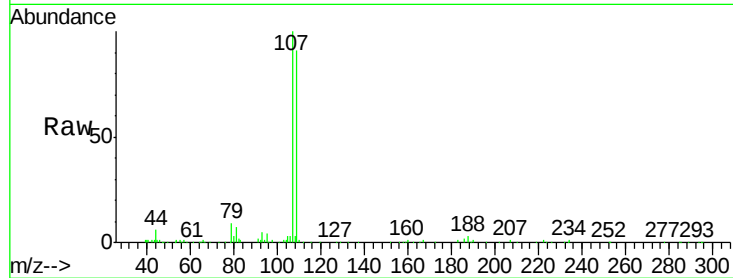
107 100

109 90.6 79.4 119.0

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#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

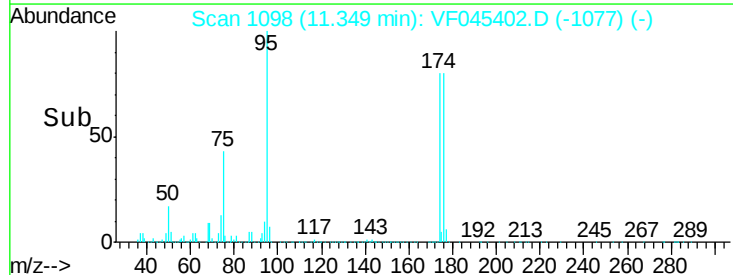
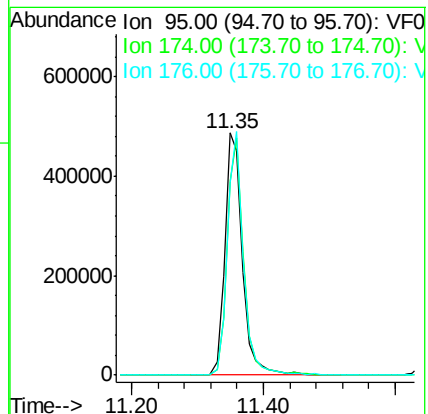
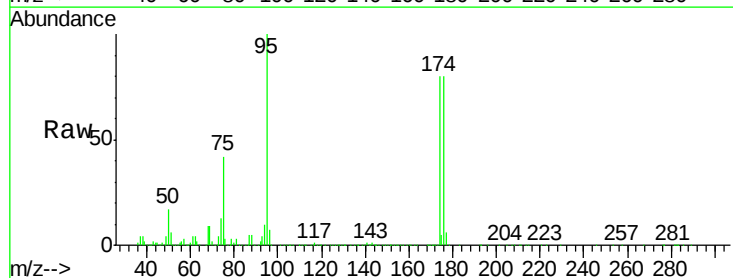
Tgt Ion: 95 Resp: 901212

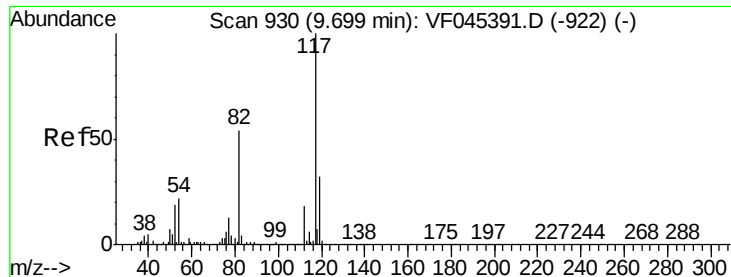
Ion Ratio Lower Upper

95 100

174 79.9 0.0 177.8

176 79.7 0.0 176.2





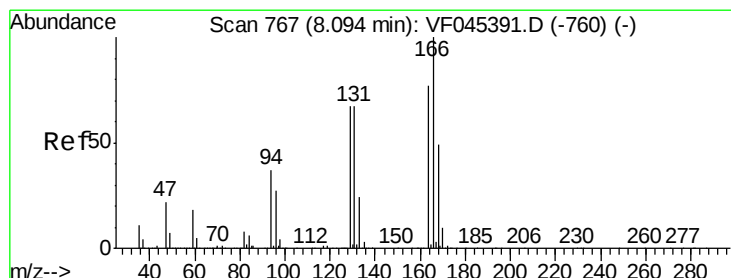
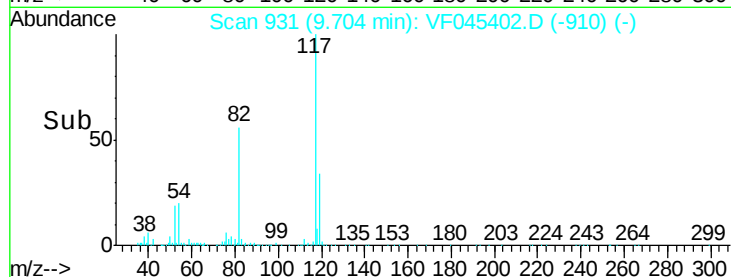
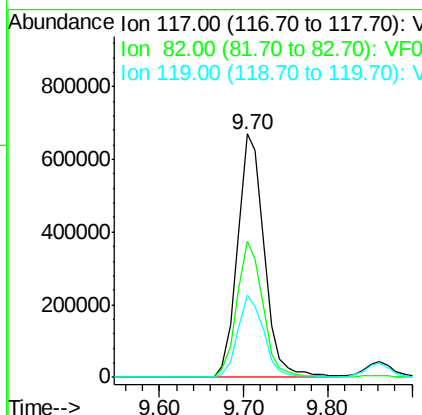
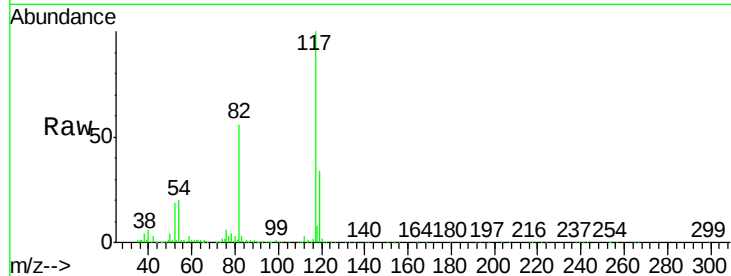
#62
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.70 min Scan# 931
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.0	67.6
119	33.6	26.2	39.4

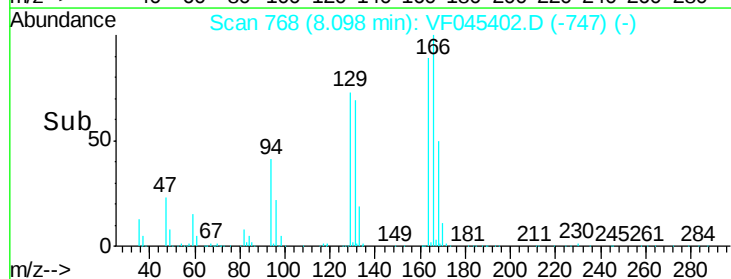
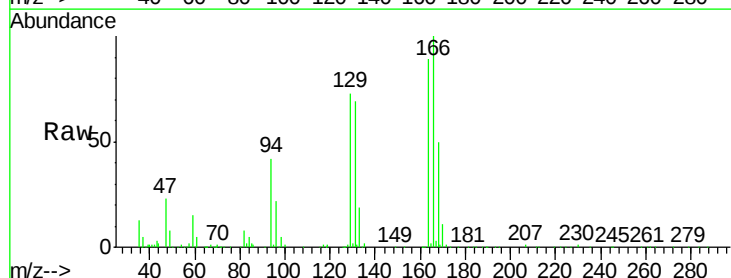
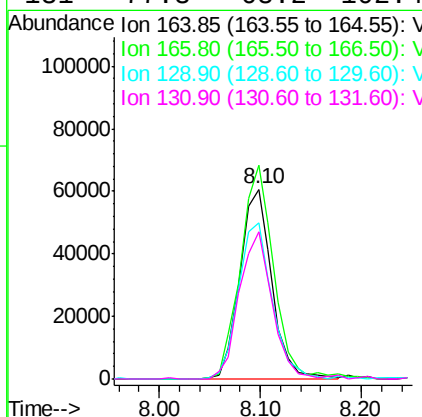
Manual Integrations
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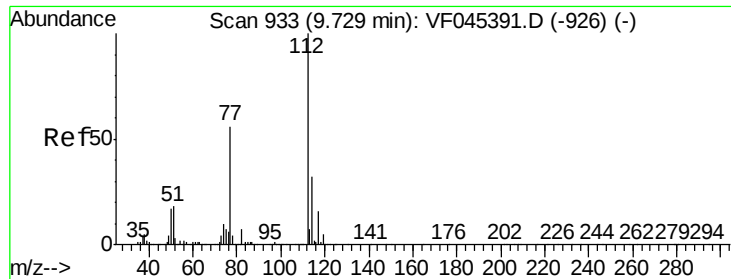
MMDadoda
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#63
Tetrachloroethene
Concen: 11.45 ug/l
RT: 8.10 min Scan# 768
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion	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





#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

Tot Ion:112 Resp: 348441

Ion Ratio Lower Upper

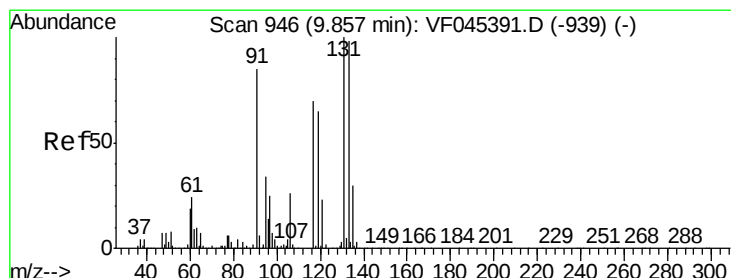
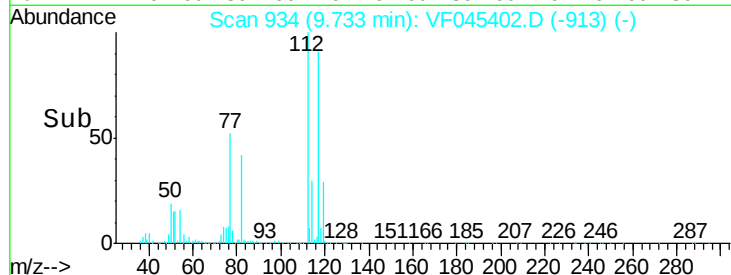
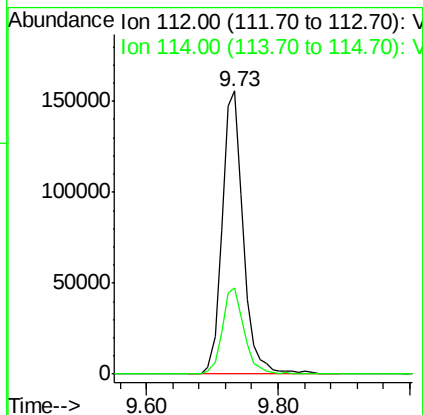
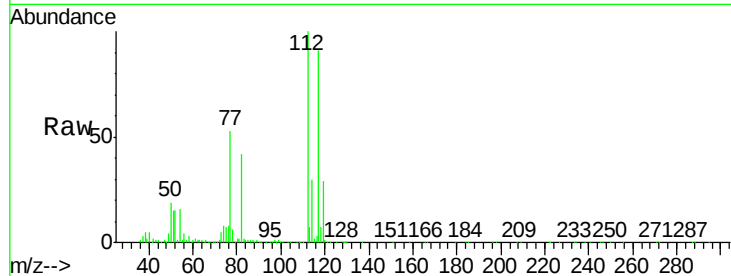
112 100

114 30.3 25.6 38.4

Manual Integrations
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#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

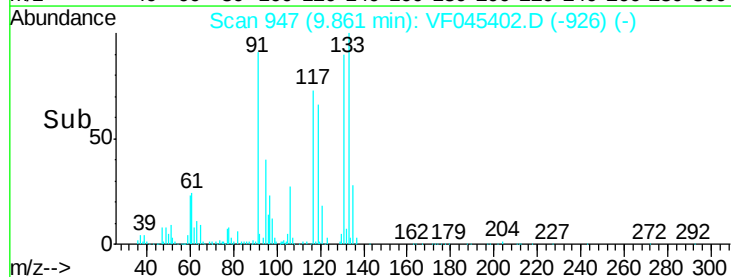
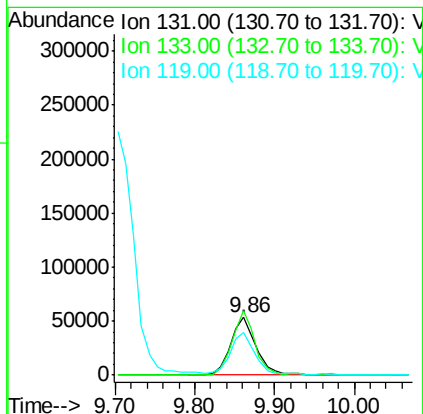
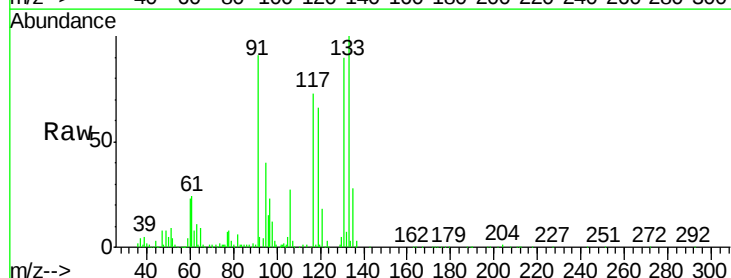
Tgt Ion:131 Resp: 120738

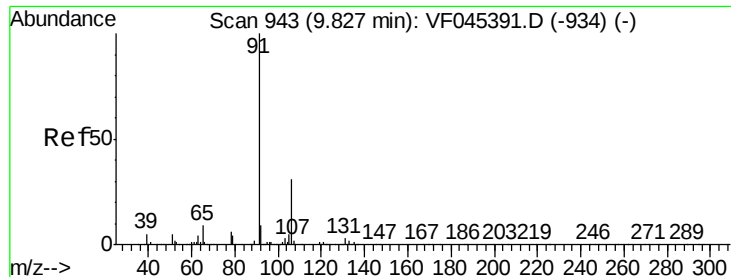
Ion Ratio Lower Upper

131 100

133 110.8 48.1 144.4

119 72.9 34.8 104.5





#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

Tot Ion: 91 Resp: 618580

Ion Ratio Lower Upper

91 100

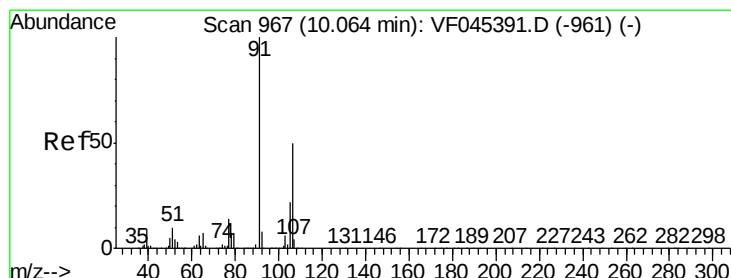
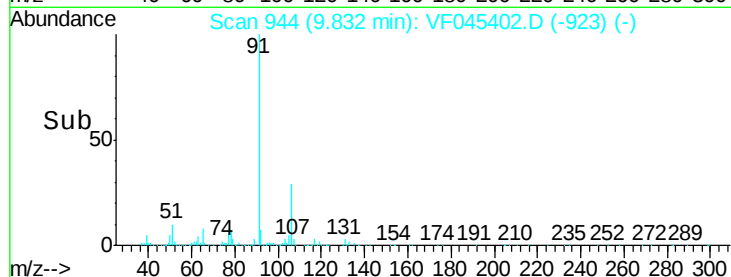
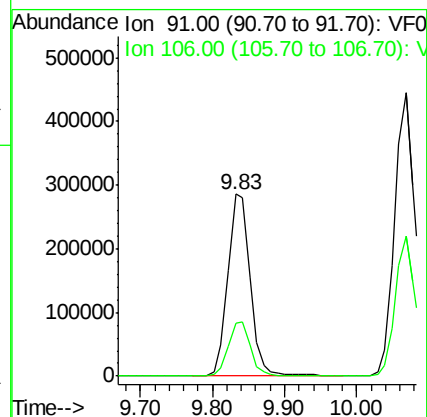
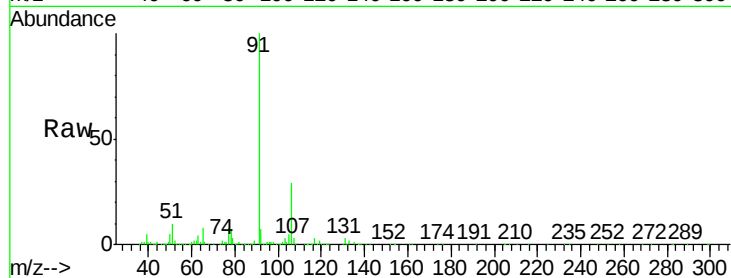
106 29.2 23.6 35.4

Manual Integrations

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#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

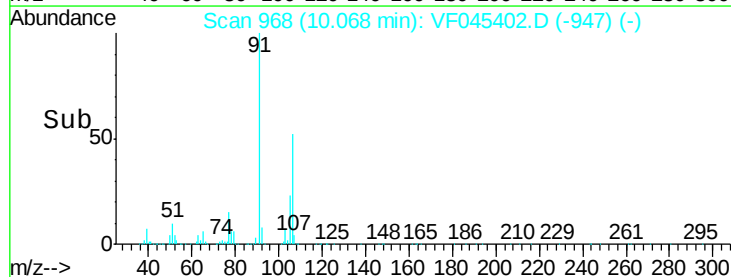
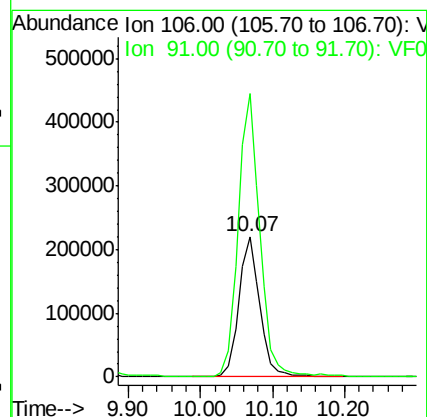
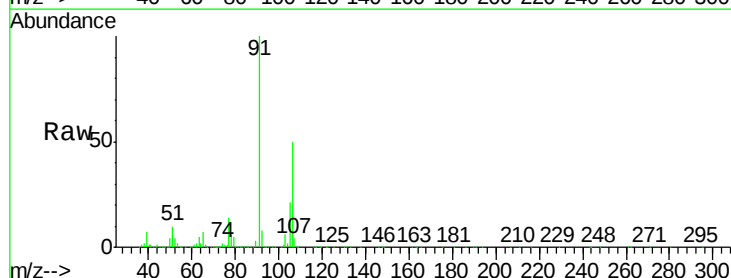
Acq: 16 Sep 2015 21:32

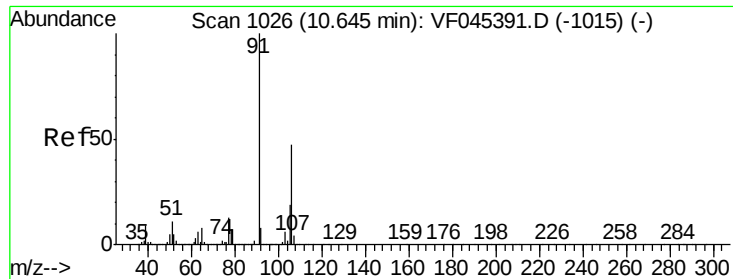
Tgt Ion: 106 Resp: 447566

Ion Ratio Lower Upper

106 100

91 201.4 166.1 249.1





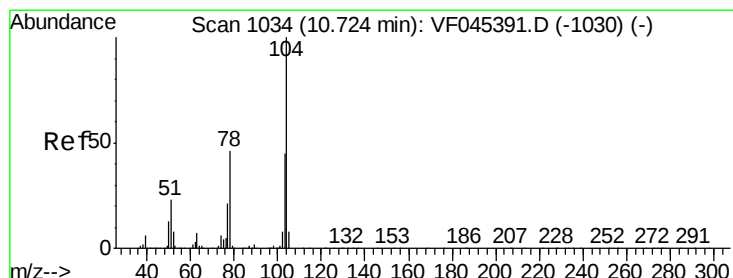
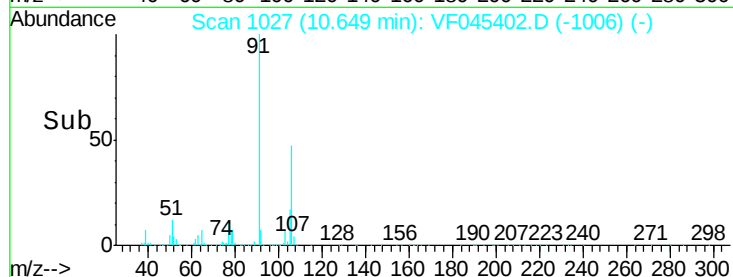
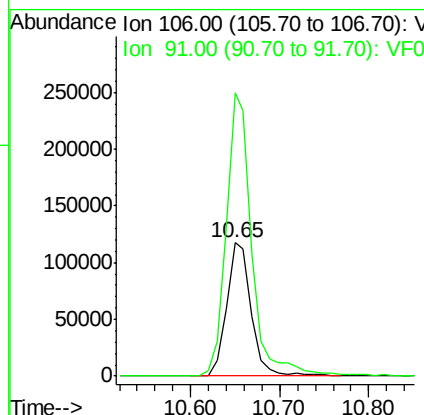
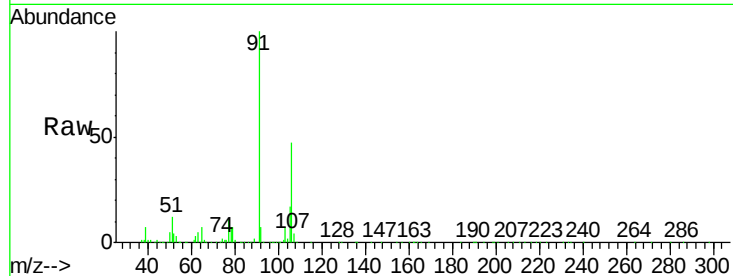
#68
o-Xylene
Concen: 11.55 ug/l
RT: 10.65 min Scan# 1027
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.0	108.1	324.2

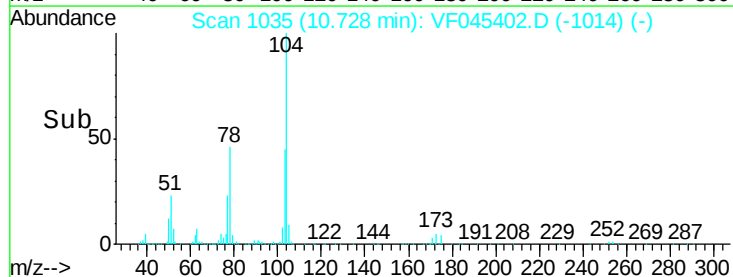
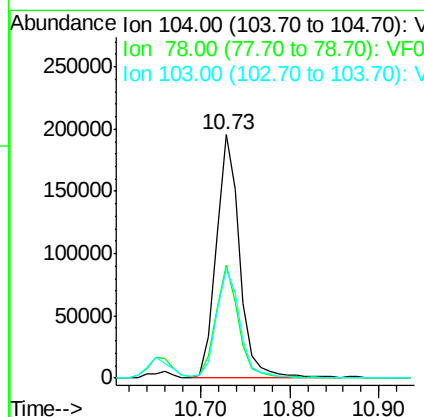
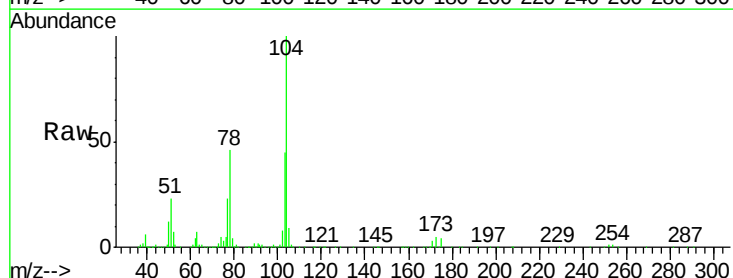
Manual Integrations
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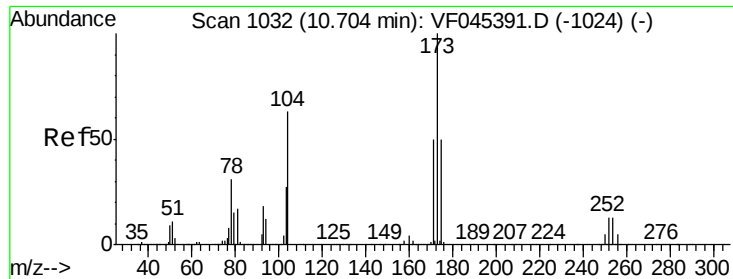
MMDadoda
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#69
Styrene
Concen: 11.17 ug/l
RT: 10.73 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

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





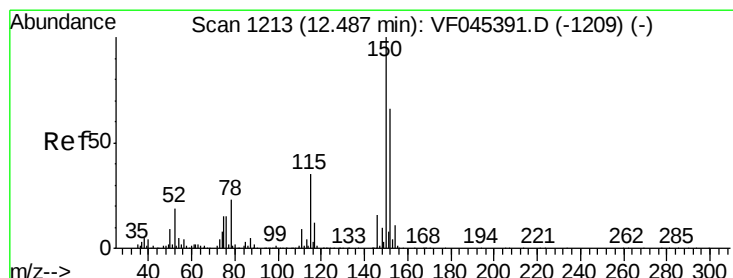
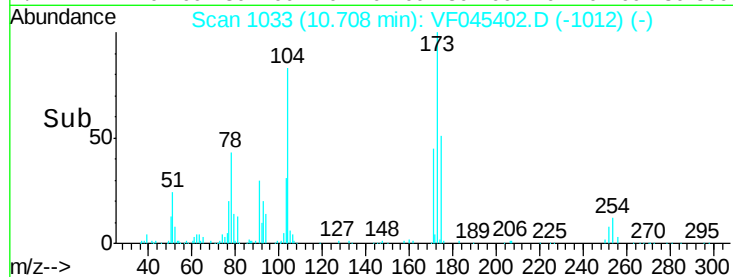
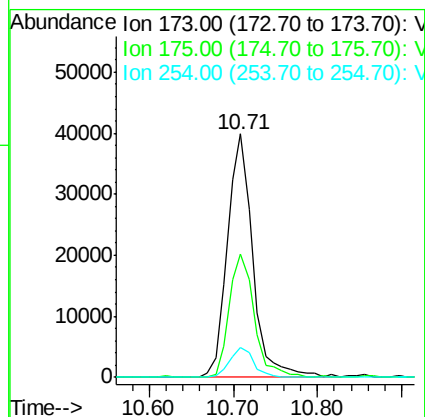
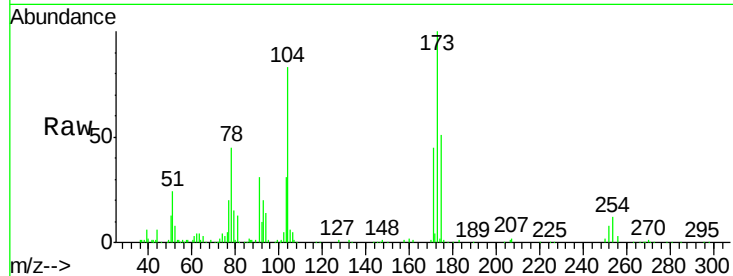
#70
Bromoform
Concen: 9.92 ug/l
RT: 10.71 min Scan# 1033
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.8	25.7	77.0
254	12.1	9.8	14.6

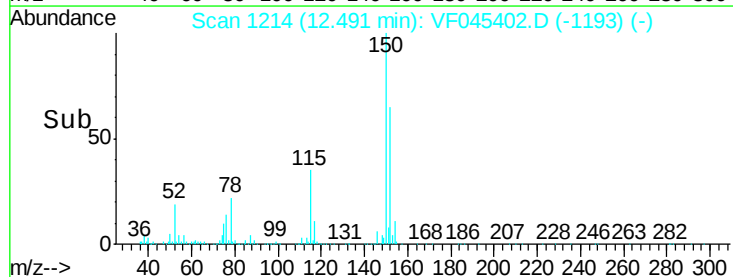
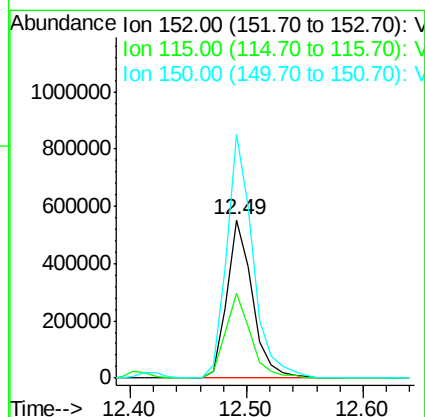
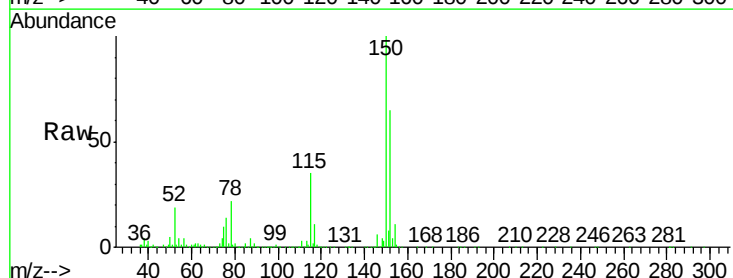
Manual Integrations
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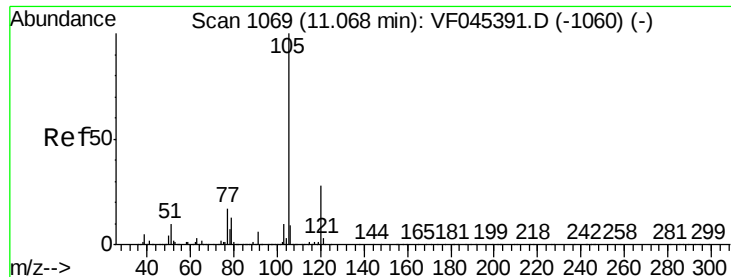
MMDadoda
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#71
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.49 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.0	28.3	85.0
150	154.2	0.0	324.2





#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 :

LOQ-SOIL2015-02

Tot Ion: 105 Resp: 636953

Ion Ratio Lower Upper

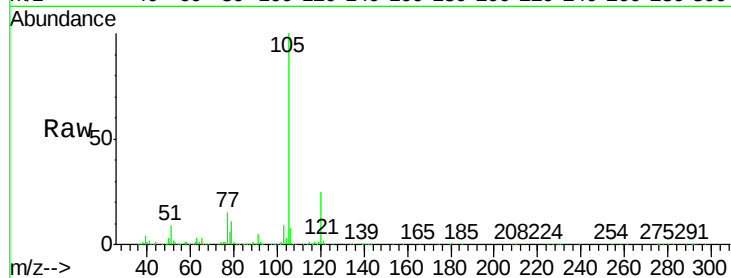
105 100

120 24.5 13.0 39.0

Manual Integrations
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9/17/2015 12:51:36 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.07

400000

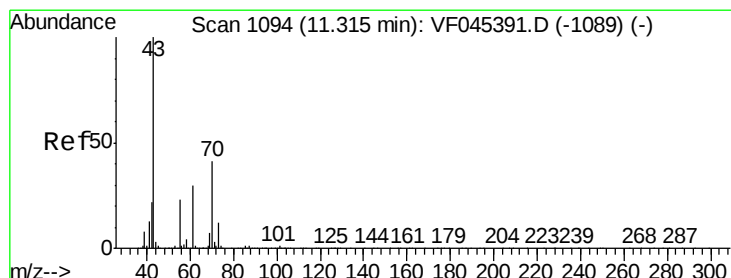
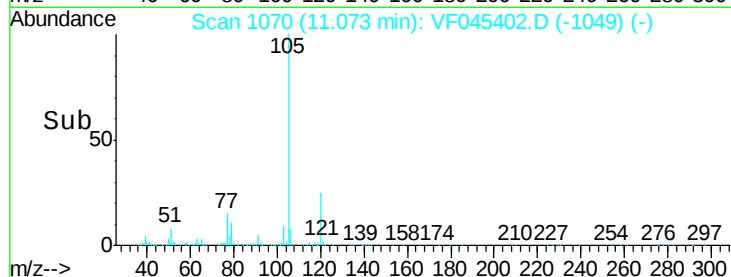
300000

200000

100000

0

Time-->



#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

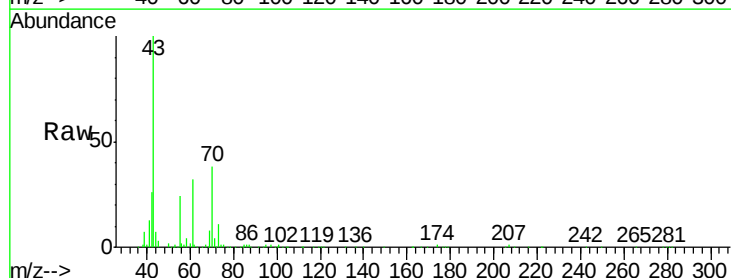
Ion Ratio Lower Upper

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

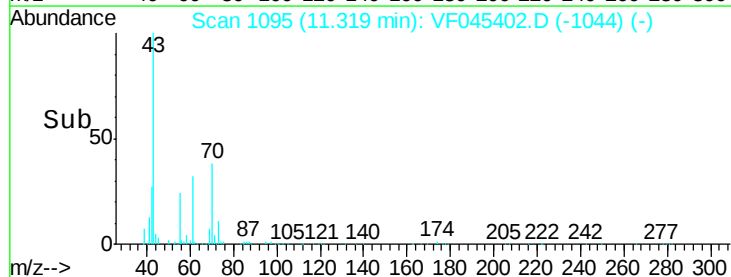
11.32

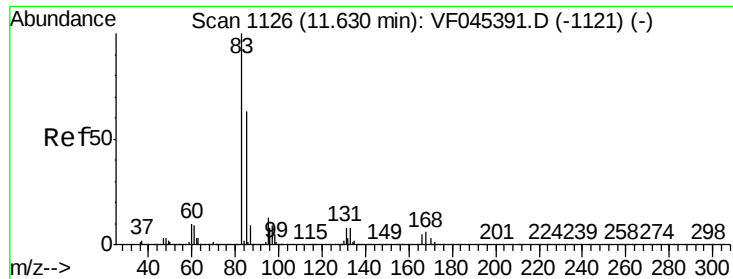
100000

50000

0

Time-->





#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

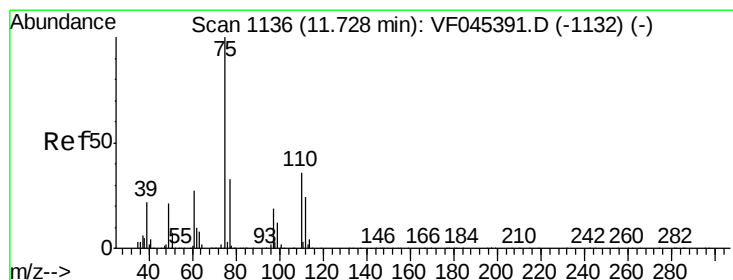
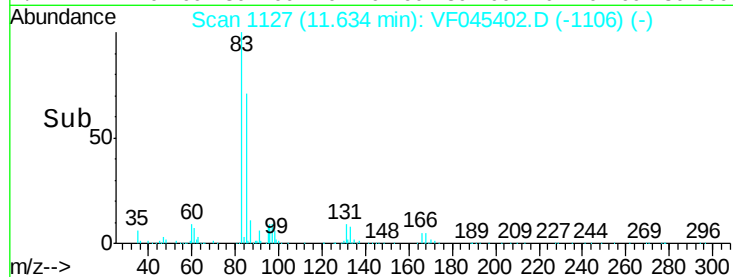
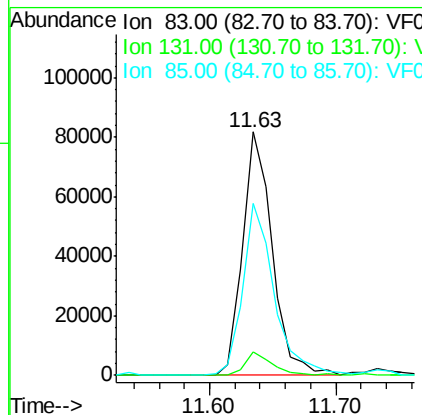
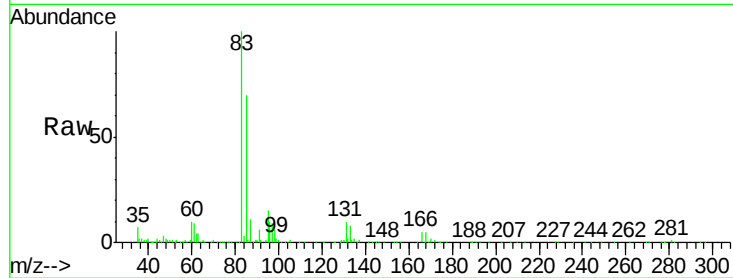
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	83	Resp:	132590
Ion Ratio	Lower	Upper	
83	100		
131	9.6	4.2	12.6
85	70.5	32.5	97.5

Manual Integrations
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#75

1,2,3-Trichloropropane

Concen: 10.99 ug/l

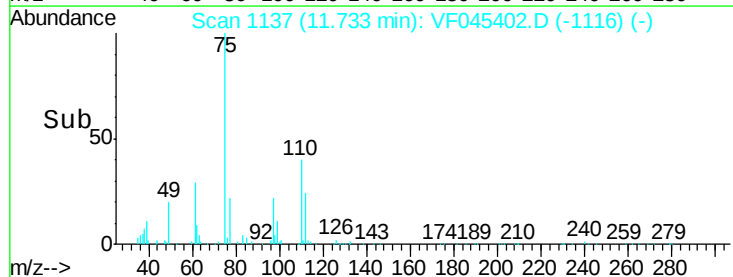
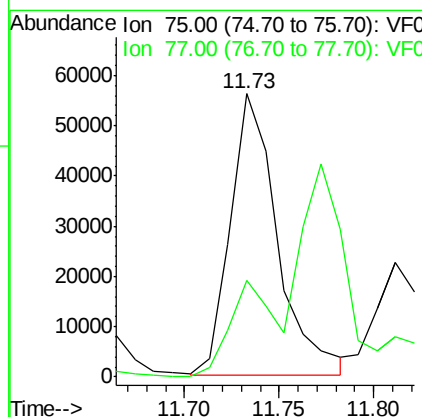
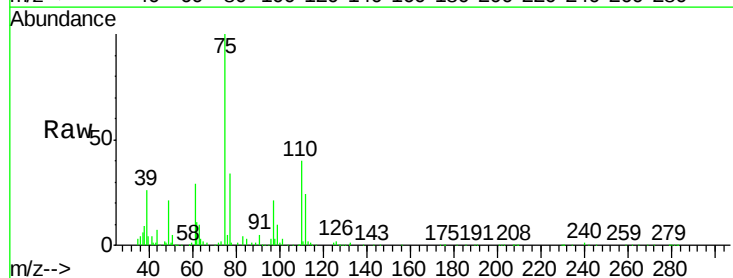
RT: 11.73 min Scan# 1137

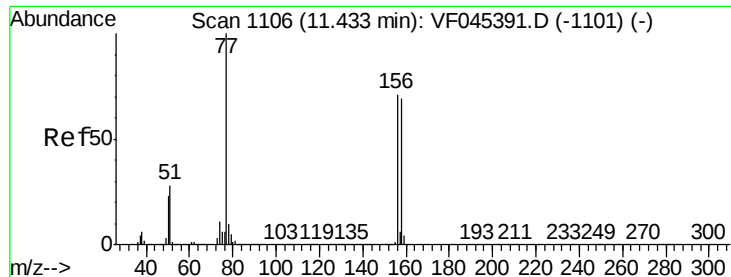
Delta R.T. 0.00 min

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

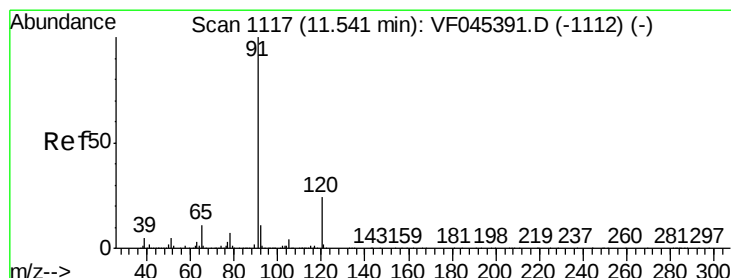
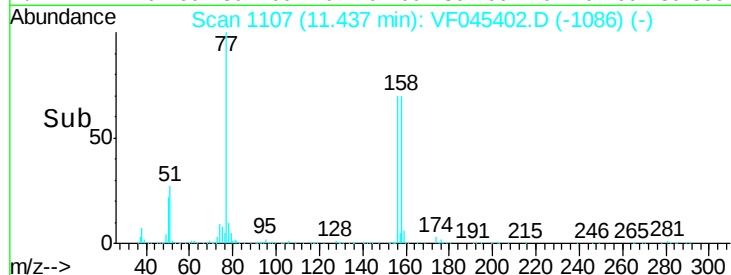
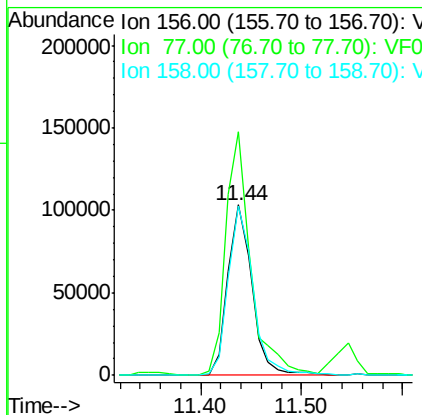
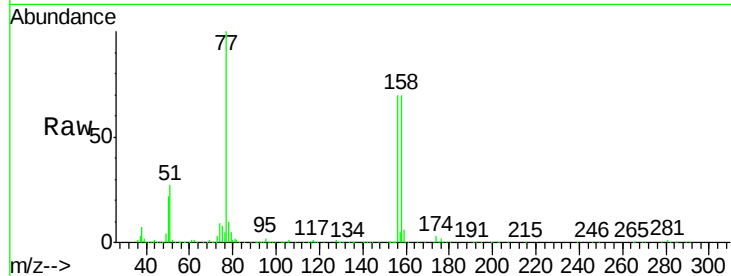
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	156	Resp:	173116
Ion Ratio	Lower	Upper	
156	100		
77	143.1	74.8	224.3
158	99.9	49.5	148.7

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#77

n-propylbenzene

Concen: 11.43 ug/l

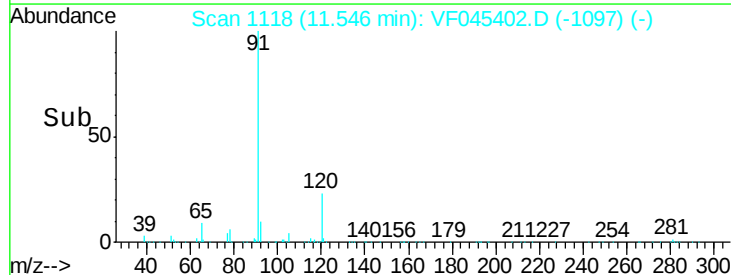
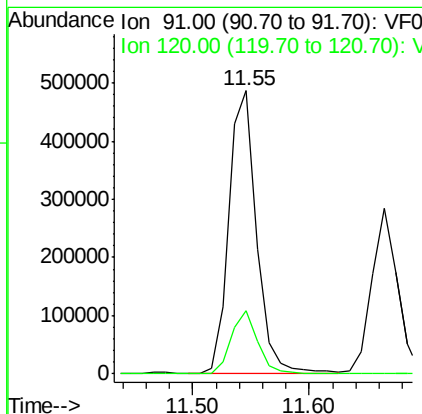
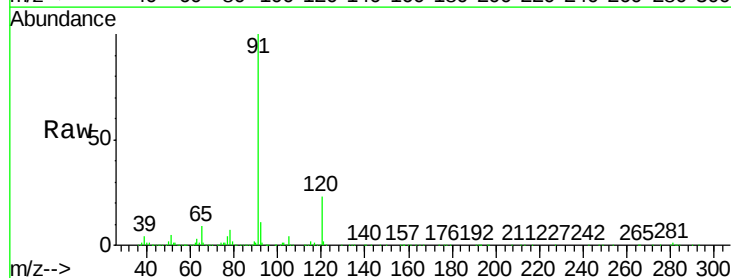
RT: 11.55 min Scan# 1118

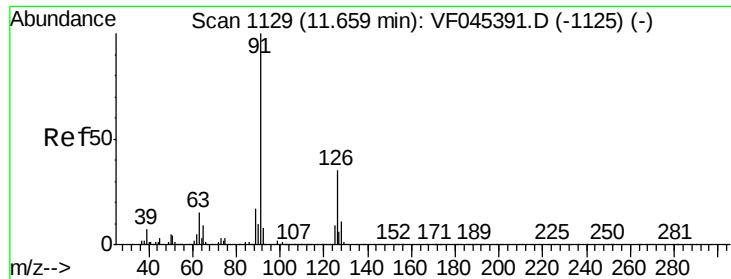
Delta R.T. 0.00 min

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





#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

Tot Ion: 91 Resp: 434264

Ion Ratio Lower Upper

91 100

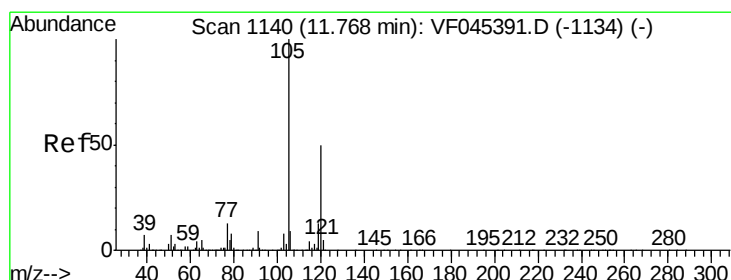
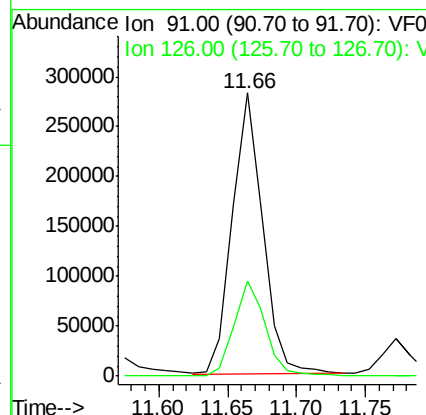
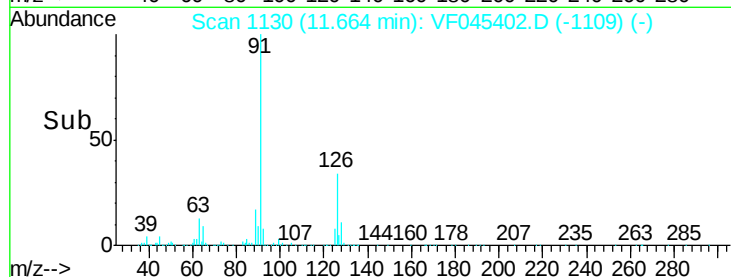
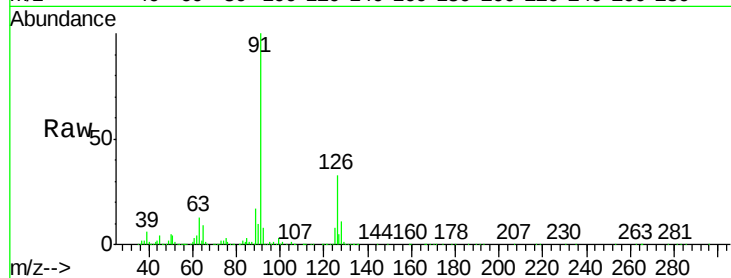
126 33.4 16.9 50.7

Manual Integrations

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#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

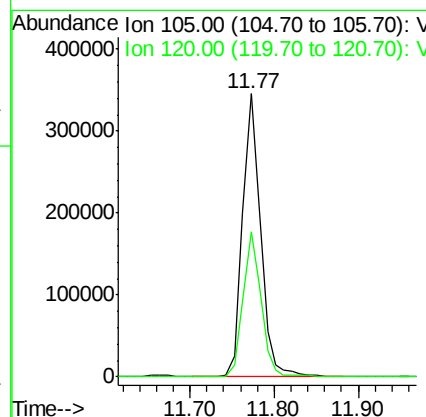
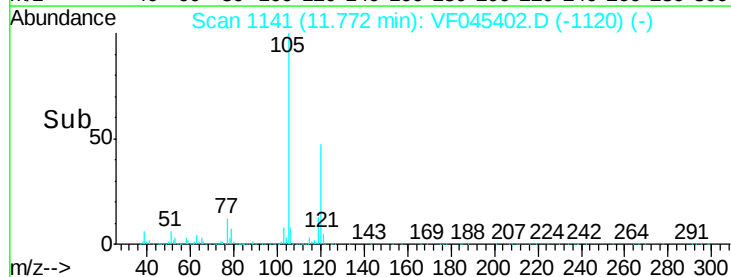
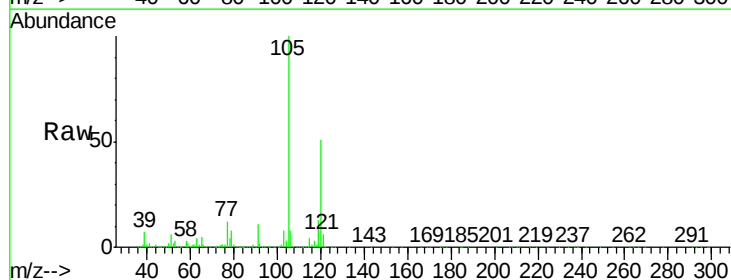
Acq: 16 Sep 2015 21:32

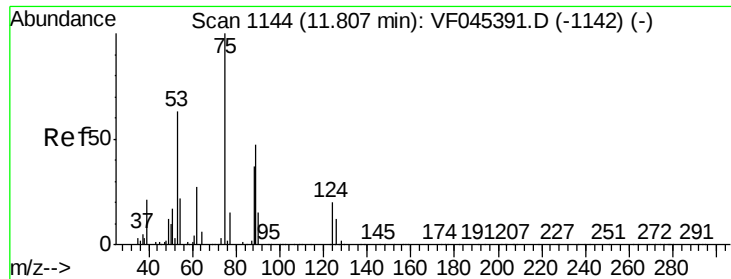
Tgt Ion: 105 Resp: 517325

Ion Ratio Lower Upper

105 100

120 51.2 25.2 75.6





#80

trans-1,4-Dichloro-2-butene

Concen: 8.57 ug/l m

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

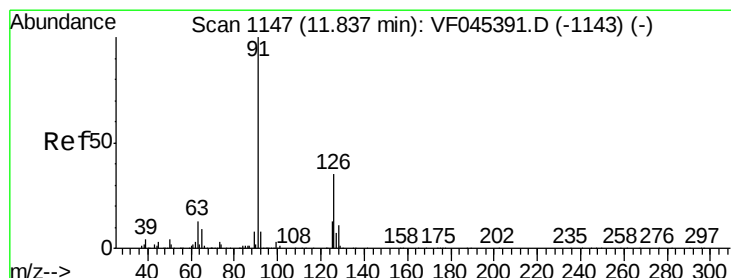
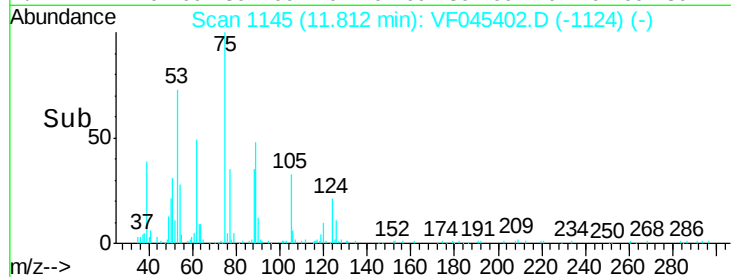
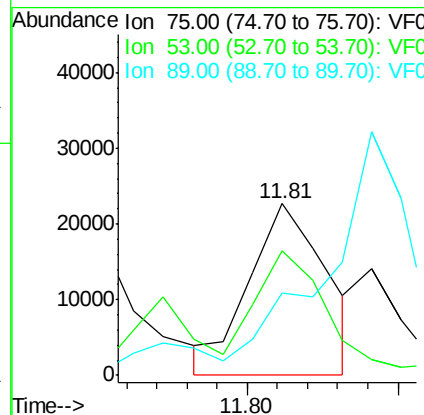
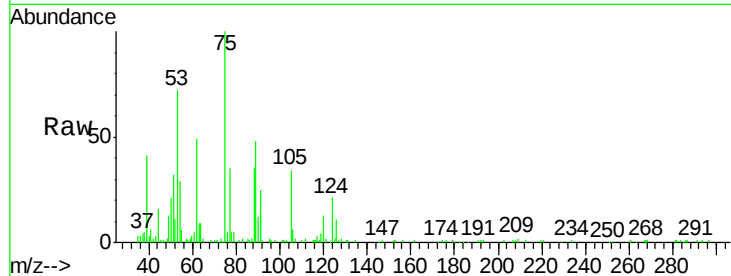
ClientSampleId :

LOQ-SOIL2015-02

Tot Ion:	75	Resp:	40249
Ion	Ratio	Lower	Upper
75	100		
53	72.4	51.0	76.6
89	48.2	38.6	57.8

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#81

4-Chlorotoluene

Concen: 11.04 ug/l

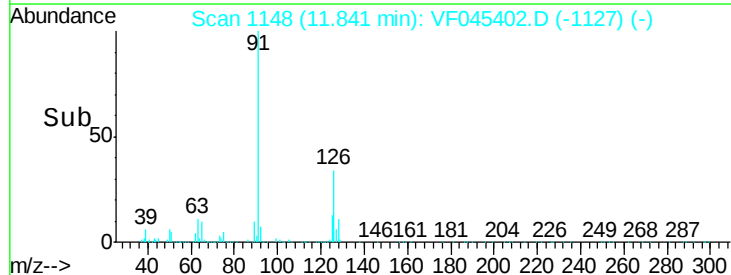
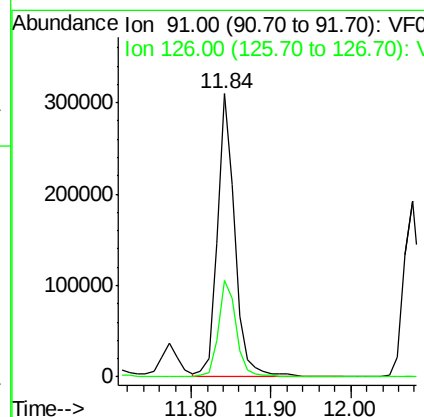
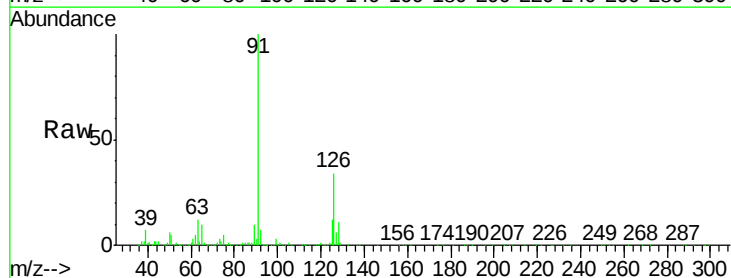
RT: 11.84 min Scan# 1148

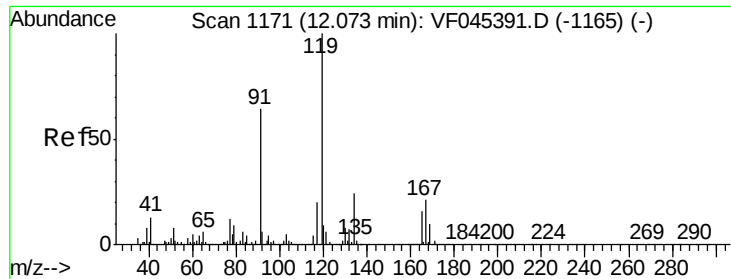
Delta R.T. 0.00 min

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





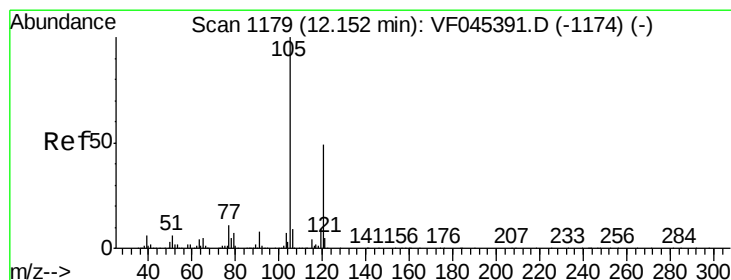
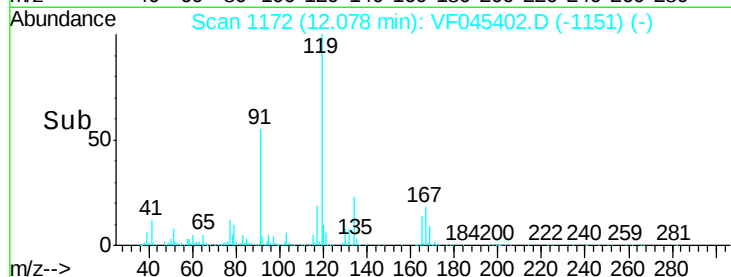
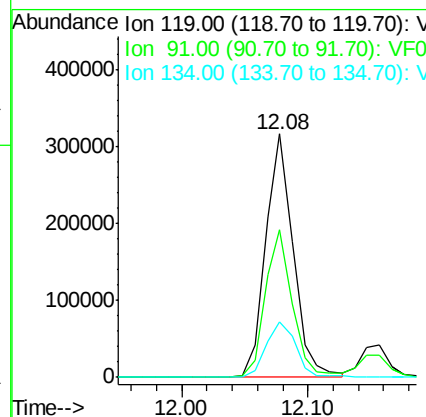
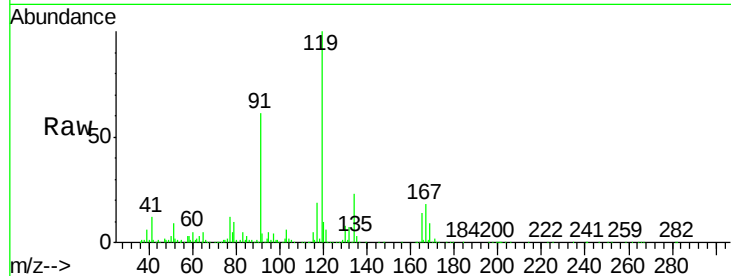
#82
 tert-Butylbenzene
 Concen: 10.68 ug/l
 RT: 12.08 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	484290		
91	60.8	31.1	93.2	
134	23.0	12.2	36.6	

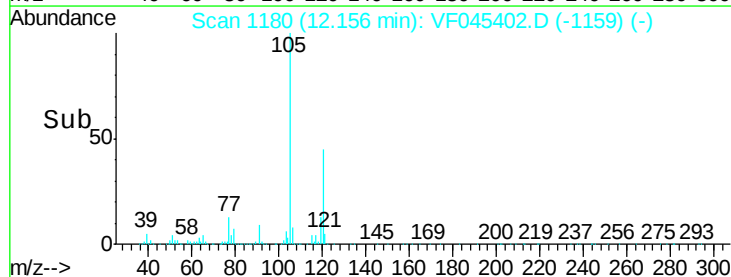
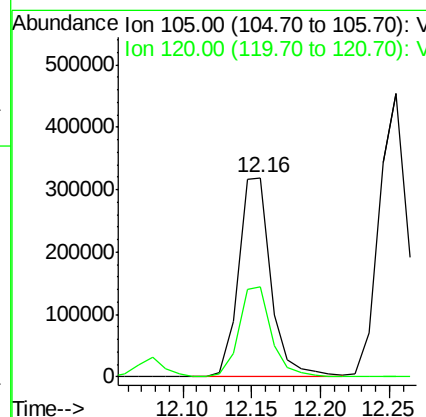
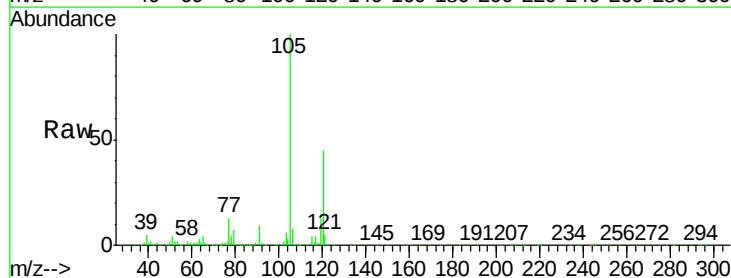
Manual Integrations
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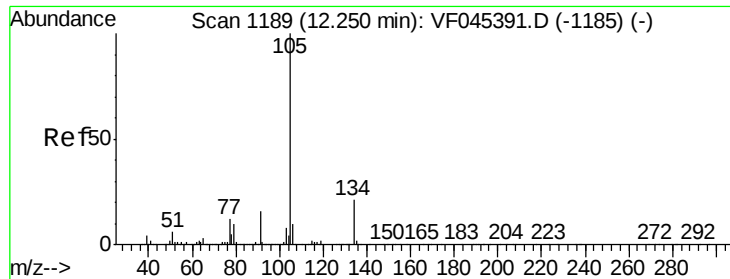
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#83
 1,2,4-Trimethylbenzene
 Concen: 11.13 ug/l
 RT: 12.16 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	522922		
120	45.5	22.9	68.7	





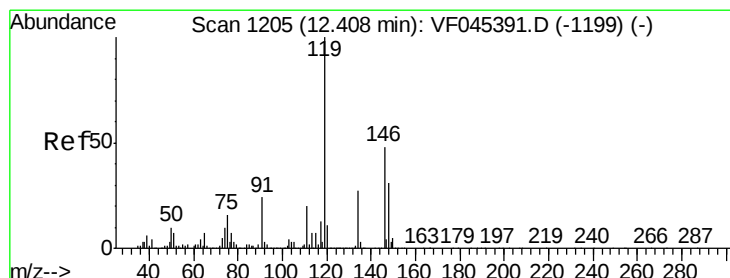
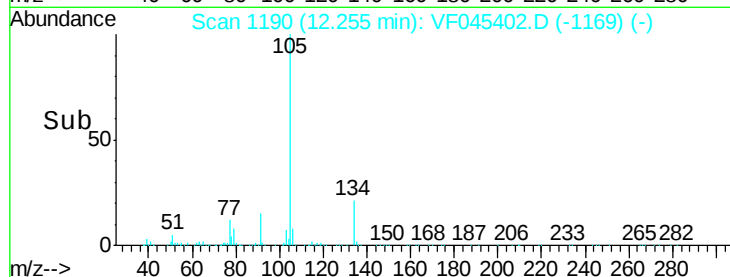
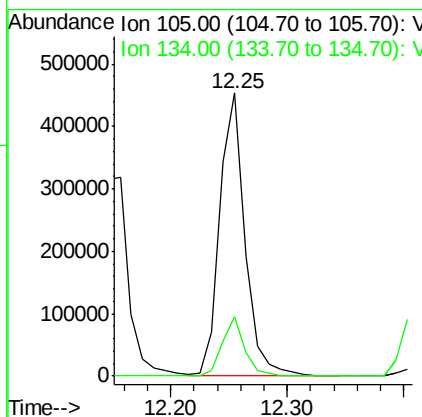
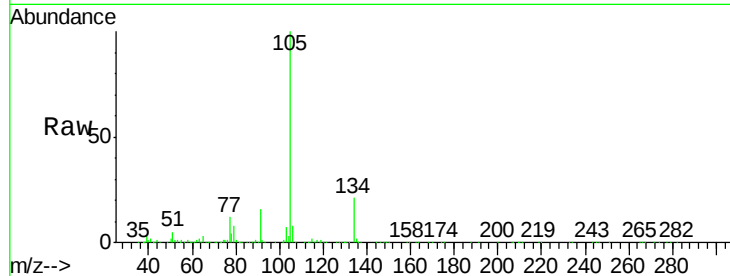
#84
 sec-Butylbenzene
 Concen: 10.77 ug/l
 RT: 12.25 min Scan# 1190
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.5	31.6

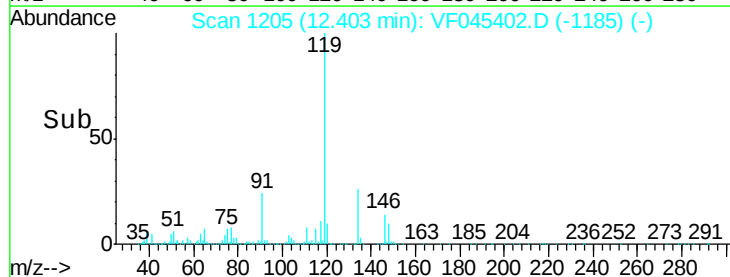
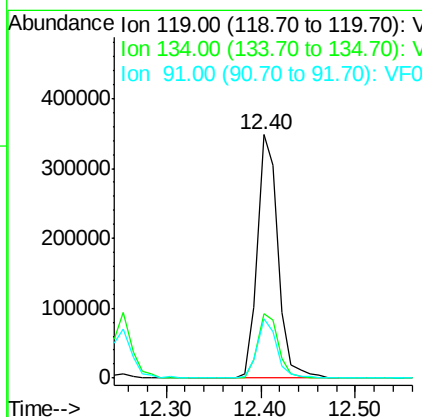
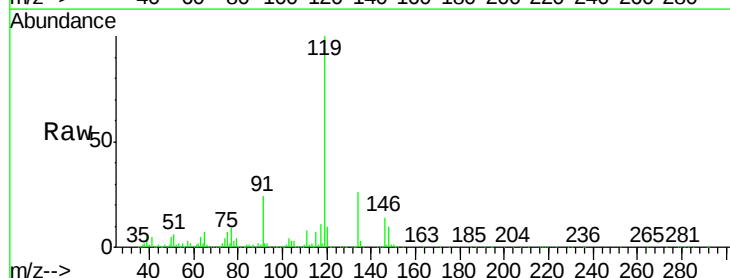
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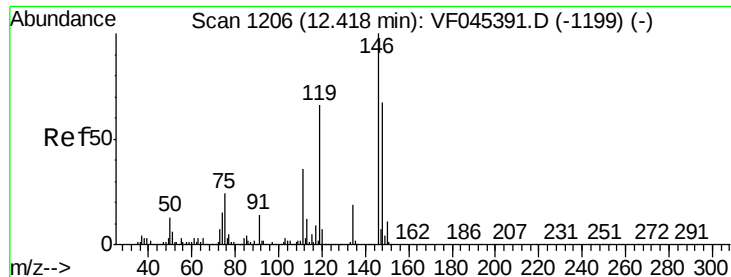
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#85
 p-Isopropyltoluene
 Concen: 10.79 ug/l
 RT: 12.40 min Scan# 1205
 Delta R.T. -0.01 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

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





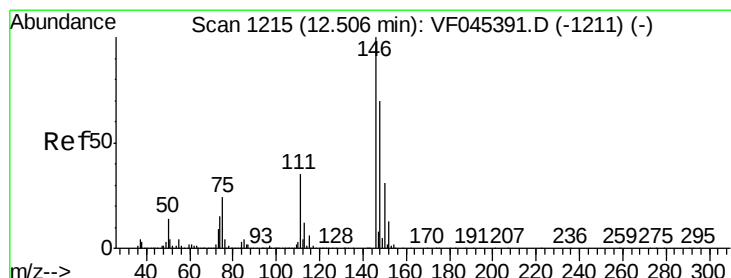
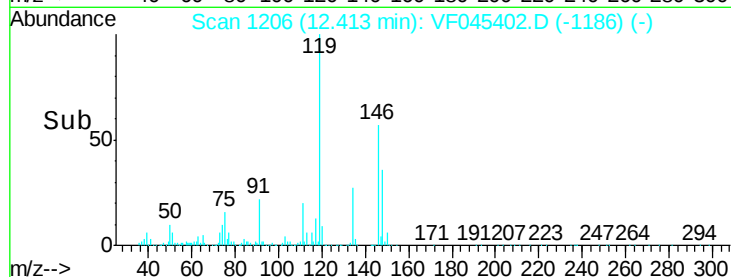
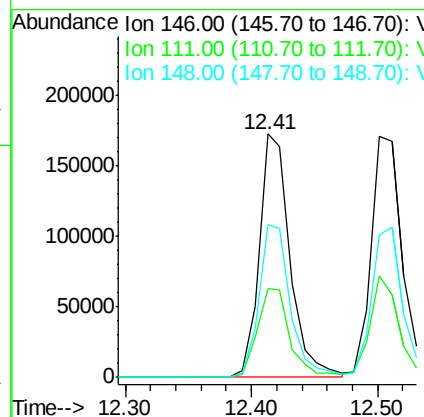
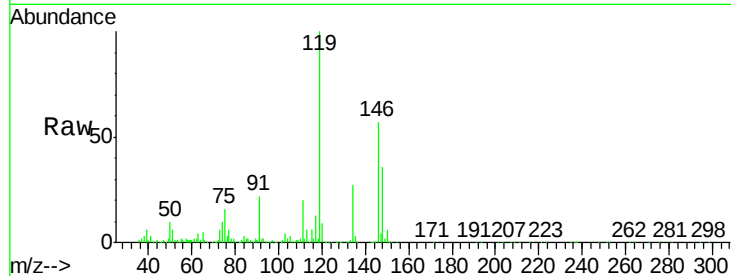
#86
 1,3-Dichlorobenzene
 Concen: 10.80 ug/l
 RT: 12.41 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

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

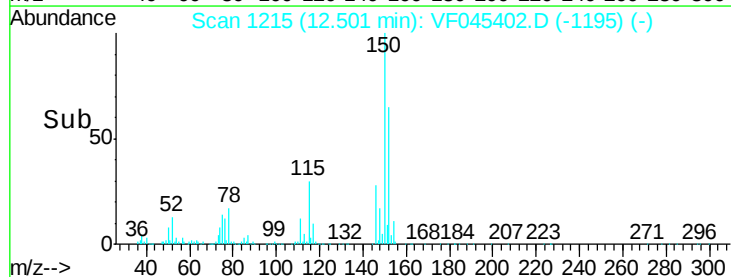
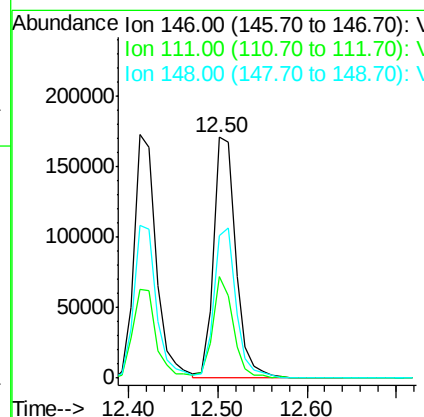
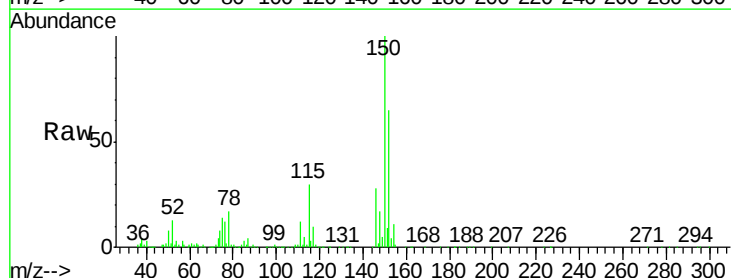
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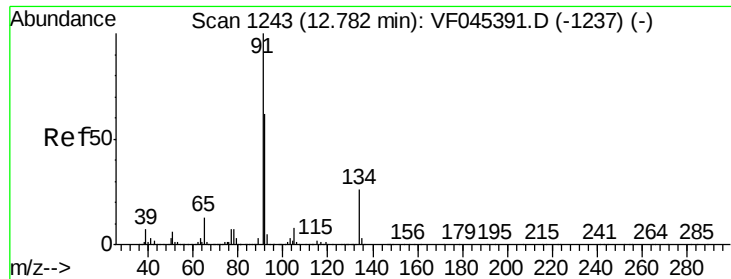
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#87
 1,4-Dichlorobenzene
 Concen: 10.89 ug/l
 RT: 12.50 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

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





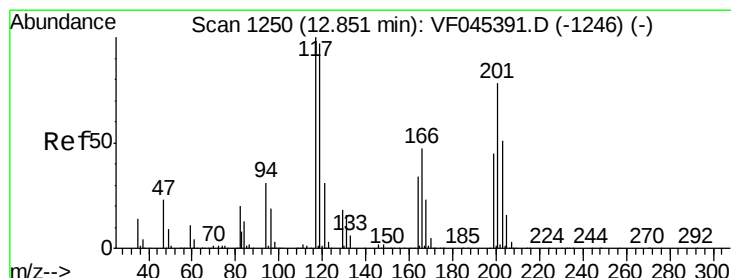
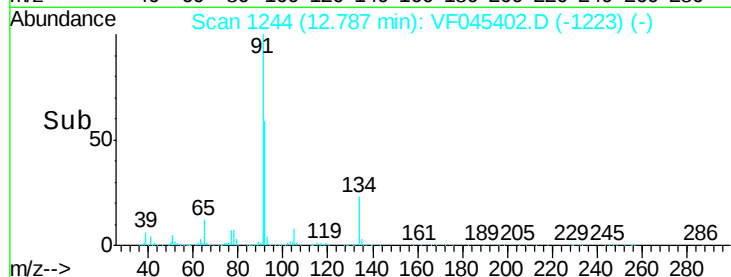
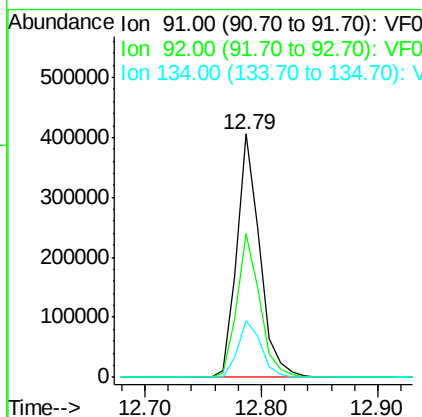
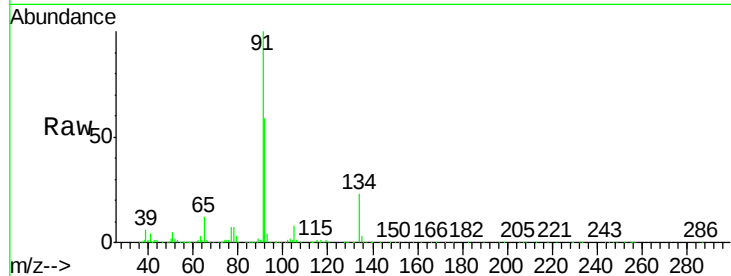
#88
n-Butylbenzene
Concen: 11.17 ug/l
RT: 12.79 min Scan# 1244
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL2015-02

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

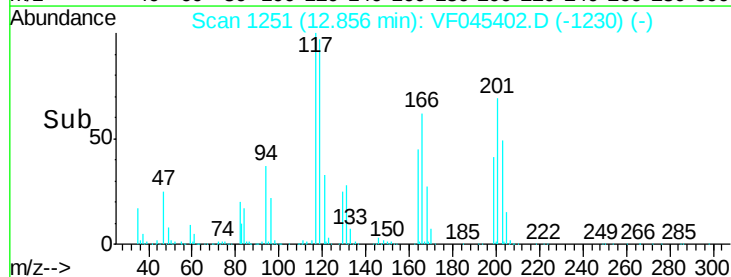
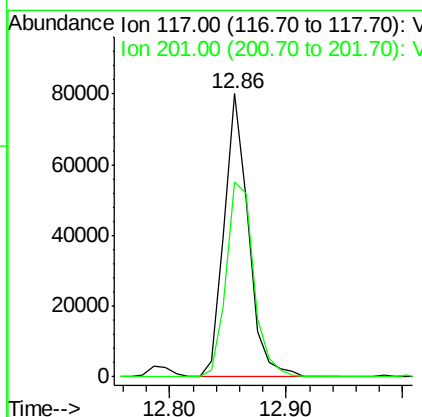
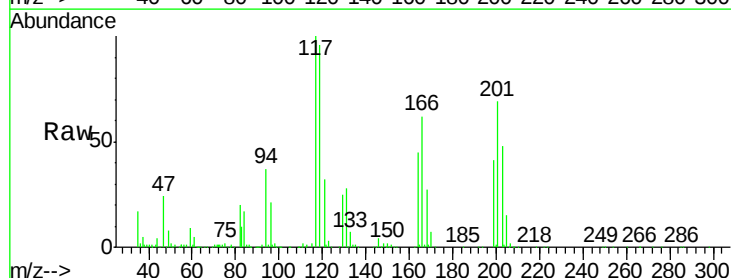
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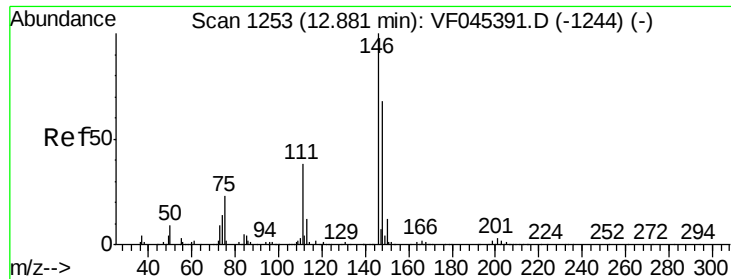
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#89
Hexachloroethane
Concen: 9.98 ug/l
RT: 12.86 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VF045402.D
Acq: 16 Sep 2015 21:32

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





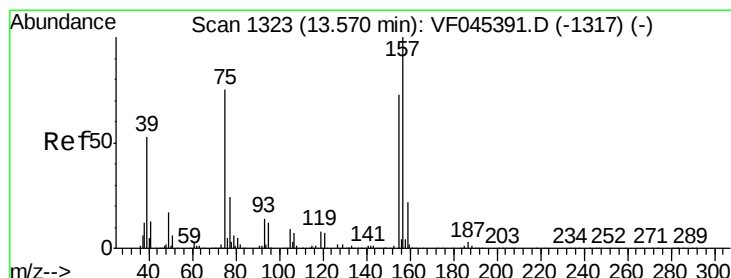
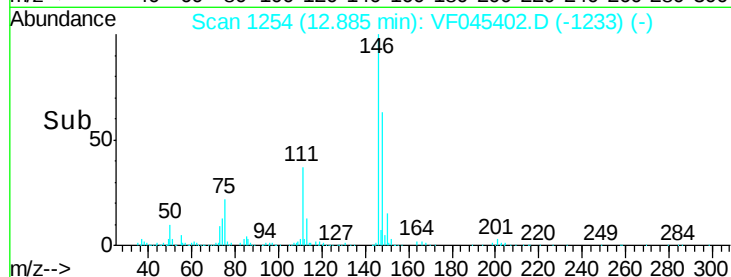
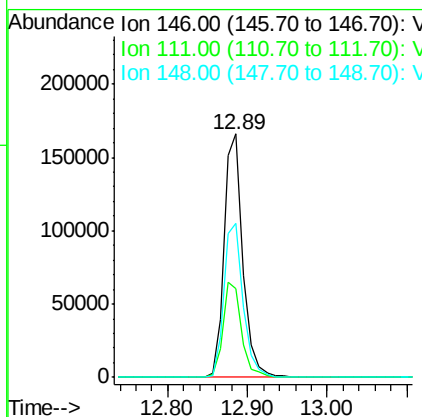
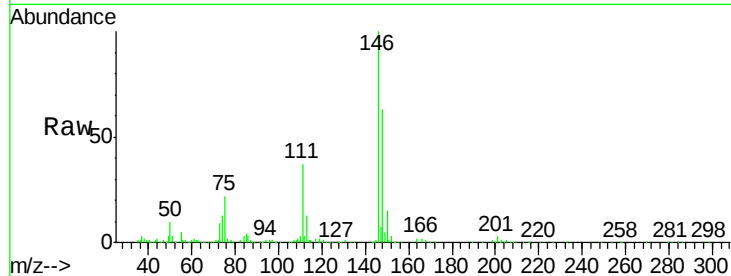
#90
 1,2-Dichlorobenzene
 Concen: 11.03 ug/l
 RT: 12.89 min Scan# 1254
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.6	21.4	64.3
148	63.1	31.4	94.3

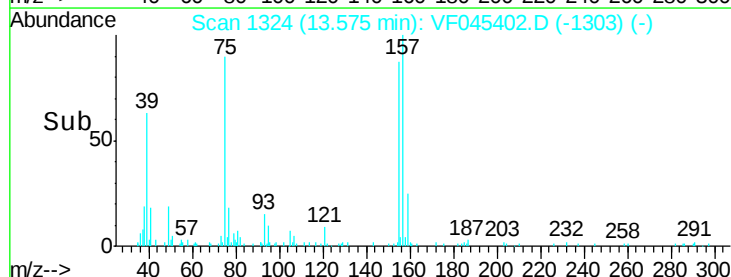
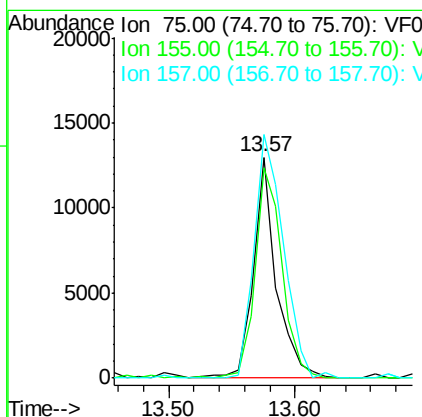
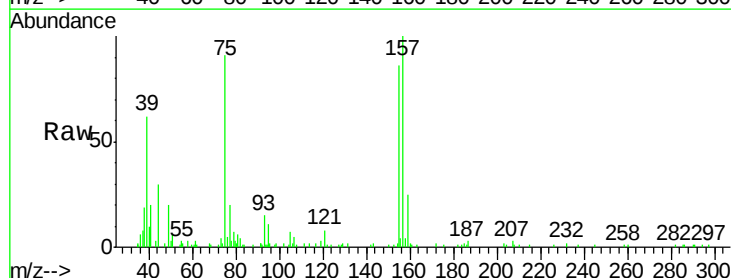
Manual Integrations
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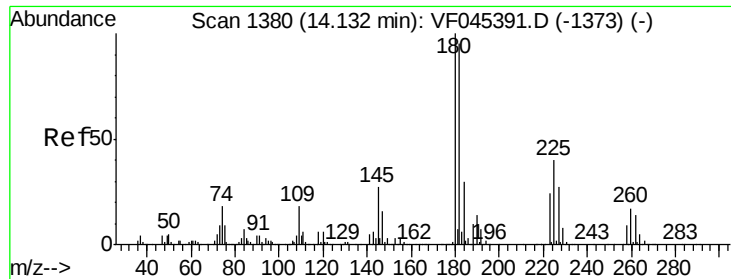
MMDadoda
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#91
 1,2-Dibromo-3-Chloropropane
 Concen: 9.73 ug/l
 RT: 13.57 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.0	49.2	147.6
157	110.1	66.8	200.4





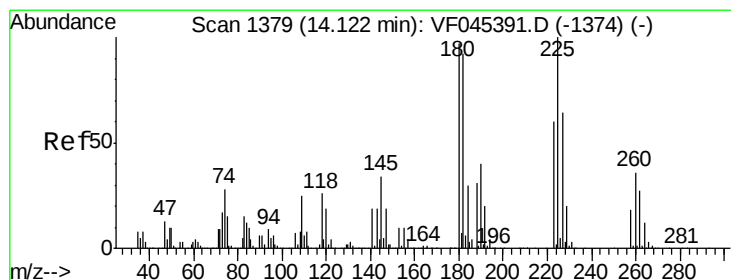
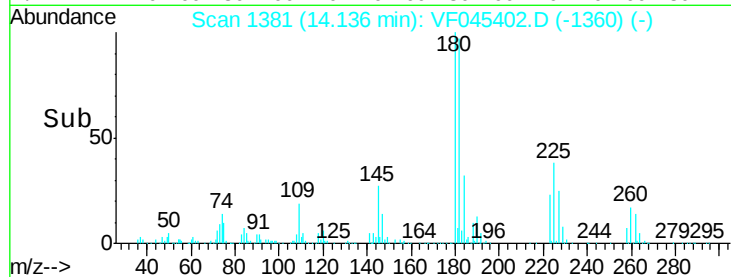
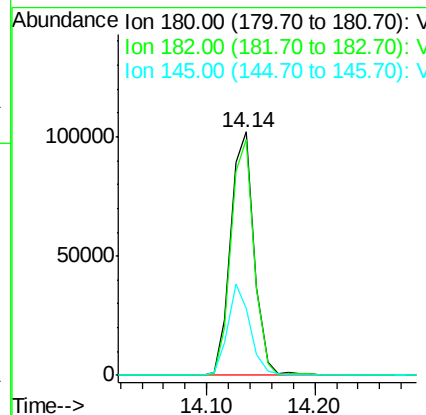
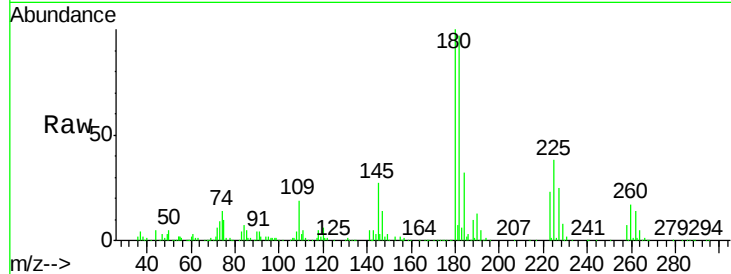
#92
 1,2,4-Trichlorobenzene
 Concen: 10.74 ug/l
 RT: 14.14 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VF045402.D
 Acq: 16 Sep 2015 21:32

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL2015-02

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

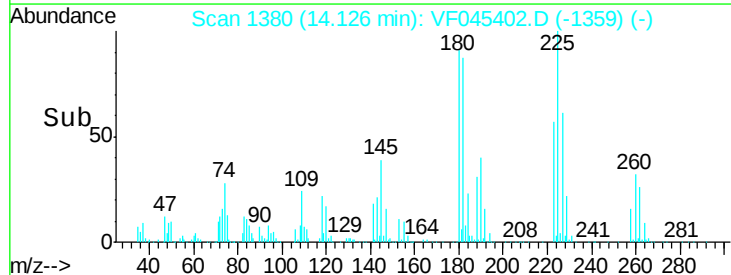
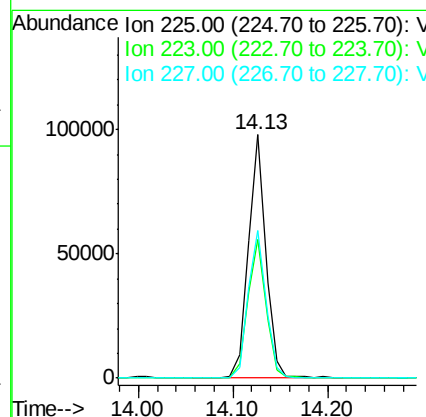
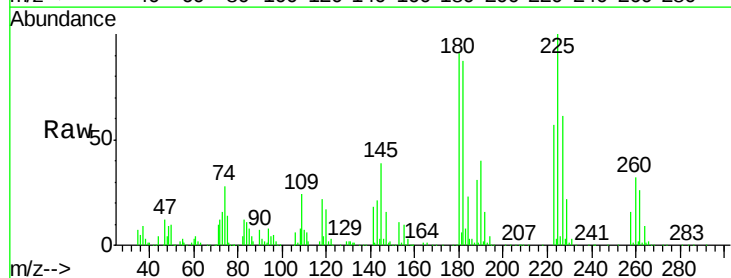
Manual Integrations
 APPROVED

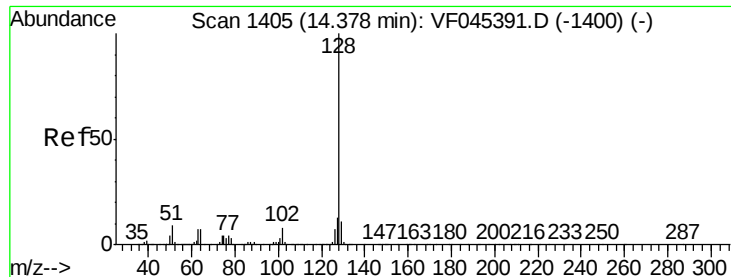
MMDadoda
 9/17/2015 12:51:36 PM



#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	Ratio	Resp	Lower	Upper
225	100	124847		
223	56.9	31.9	95.5	
227	60.8	32.9	98.7	





#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

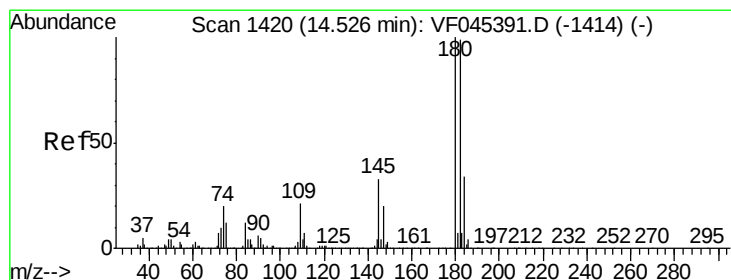
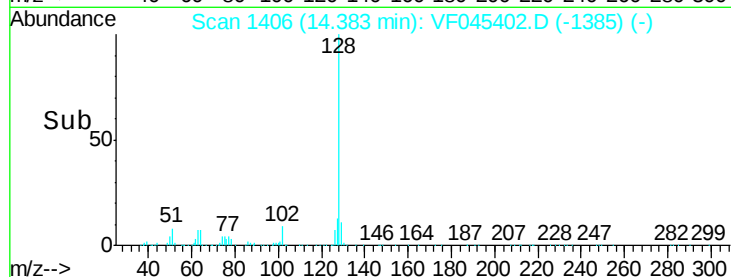
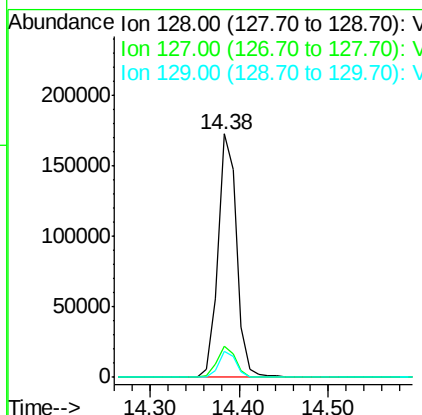
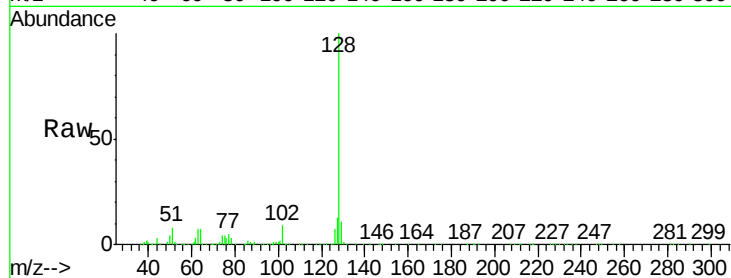
ClientSampleId :

LOQ-SOIL2015-02

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

Manual Integrations
APPROVED

MMDadoda
9/17/2015 12:51:36 PM



#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

