

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF100918\
 Data File : VF060502.D
 Acq On : 9 Oct 2018 21:29
 Operator : VA/AP
 Sample : J5164-02LOQ
 Misc : 5.00/5mL/MSVOA_F/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Quant Time: Oct 10 02:41:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 10 02:28:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	254249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.73	114	417586	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	334061	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	201089	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	214057	55.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.04%	
35) Dibromofluoromethane	4.26	113	207336	53.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.88%	
50) Toluene-d8	7.68	98	452068	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
62) 4-Bromofluorobenzene	11.49	95	203086	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	61560	10.227	ug/l	95
3) Chloromethane	1.14	50	34128	11.042	ug/l	96
4) Vinyl Chloride	1.17	62	37205	11.097	ug/l	98
5) Bromomethane	1.35	94	31338	11.886	ug/l	84
6) Chloroethane	1.42	64	19407	10.950	ug/l	92
7) Trichlorofluoromethane	1.54	101	79206	10.540	ug/l	90
8) Diethyl Ether	1.69	74	11525	10.718	ug/l	59
9) 1,1,2-Trichlorotrifluoroet	1.87	101	40472	10.767	ug/l	93
10) Methyl Iodide	1.94	142	63054	10.580	ug/l #	90
11) Tert butyl alcohol	2.67	59	13334	65.997	ug/l #	82
12) 1,1-Dichloroethene	1.85	96	33137	10.553	ug/l #	74
13) Acrolein	2.07	56	8395	57.146	ug/l #	81
14) Allyl chloride	2.17	41	51341	11.092	ug/l	93
15) Acrylonitrile	3.05	53	21494	50.533	ug/l #	82
16) Acetone	2.32	43	53269	44.176	ug/l #	90
17) Carbon Disulfide	1.88	76	92767	10.624	ug/l #	90
18) Methyl Acetate	2.44	43	17639	10.413	ug/l	98
19) Methyl tert-butyl Ether	2.53	73	78909	11.164	ug/l	97
20) Methylene Chloride	2.30	84	21619	7.371	ug/l	90
21) trans-1,2-Dichloroethene	2.40	96	33435	11.408	ug/l	95
22) Diisopropyl ether	2.90	45	108098	11.362	ug/l #	93
23) Vinyl Acetate	3.30	43	177318	53.240	ug/l	100
24) 1,1-Dichloroethane	2.97	63	63727	9.981	ug/l	98
25) 2-Butanone	4.48	43	54817	59.602	ug/l	92
26) 2,2-Dichloropropane	3.73	77	36192	10.872	ug/l	89
27) cis-1,2-Dichloroethene	3.60	96	33851	9.895	ug/l	80
28) Bromochloromethane	3.86	49	23672	10.674	ug/l	96
29) Tetrahydrofuran	4.23	42	22527	58.103	ug/l	93
30) Chloroform	4.00	83	84007	11.370	ug/l	90
31) Cyclohexane	3.84	56	43545	10.661	ug/l #	81
32) 1,1,1-Trichloroethane	4.24	97	64891	11.148	ug/l	92
36) 1,1-Dichloropropene	4.42	75	54226	11.164	ug/l	92
37) Ethyl Acetate	4.26	43	21927	12.780	ug/l #	66
38) Carbon Tetrachloride	4.13	117	69466	14.237	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.59	83	52004	11.371	ug/l	93
40) Benzene	4.77	78	108169	10.846	ug/l	96
41) Methacrylonitrile	4.89	41	9971	10.228	ug/l	89
42) 1,2-Dichloroethane	5.08	62	49256	10.887	ug/l	100
43) Isopropyl Acetate	7.08	43	20816	9.735	ug/l #	97
44) Trichloroethene	5.64	130	33574	10.807	ug/l	94
45) 1,2-Dichloropropane	6.37	63	26619	10.904	ug/l #	83
46) Dibromomethane	6.22	93	19873	10.148	ug/l	92
47) Bromodichloromethane	6.52	83	53708	10.859	ug/l	96
48) Methyl methacrylate	6.84	41	16100	11.115	ug/l	92
49) 1,4-Dioxane	6.84	88	2636	167.580	ug/l #	82
51) 4-Methyl-2-Pentanone	8.38	43	81155	54.405	ug/l	100
52) Toluene	7.75	92	60942	9.703	ug/l	93
53) t-1,3-Dichloropropene	8.40	75	39743	10.347	ug/l	98
54) cis-1,3-Dichloropropene	7.42	75	46594	10.415	ug/l	95
55) 1,1,2-Trichloroethane	8.62	97	18448	9.557	ug/l	89
56) Ethyl methacrylate	8.74	69	20594	9.221	ug/l	95
57) 1,3-Dichloropropane	8.97	76	33734	10.149	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.75	63	11914	52.495	ug/l	100
59) 2-Hexanone	9.60	43	58472	54.191	ug/l	100
60) Dibromochloromethane	8.83	129	29785	9.830	ug/l	96
61) 1,2-Dibromoethane	9.11	107	23214	10.643	ug/l	93
64) Tetrachloroethene	8.27	164	30520	11.527	ug/l	90
65) Chlorobenzene	9.91	112	73532	11.334	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.04	131	33776	11.558	ug/l	90
67) Ethyl Benzene	10.01	91	135674	11.084	ug/l	98
68) m/p-Xylenes	10.24	106	93775	22.443	ug/l	97
69) o-Xylene	10.81	106	49485	10.890	ug/l	91
70) Styrene	10.87	104	78577	12.013	ug/l	93
71) Bromoform	10.86	173	16800	11.339	ug/l #	91
73) Isopropylbenzene	11.21	105	162077	10.843	ug/l	97
74) N-amyl acetate	11.45	43	35370	10.871	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.76	83	27002	10.748	ug/l	92
76) 1,2,3-Trichloropropane	11.87	75	21532	11.086	ug/l	89
77) Bromobenzene	11.57	156	34561	10.404	ug/l	90
78) n-propylbenzene	11.67	91	200028	11.236	ug/l	96
79) 2-Chlorotoluene	11.79	91	111582	10.706	ug/l	95
80) 1,3,5-Trimethylbenzene	11.89	105	135476	10.804	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.94	75	13892	16.405	ug/l	92
82) 4-Chlorotoluene	11.97	91	116641	10.848	ug/l	98
83) tert-Butylbenzene	12.20	119	137817	10.933	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	138536	10.882	ug/l	100
85) sec-Butylbenzene	12.37	105	183449	10.730	ug/l	98
86) p-Isopropyltoluene	12.52	119	155575	11.085	ug/l	97
87) 1,3-Dichlorobenzene	12.54	146	73271	11.580	ug/l	95
88) 1,4-Dichlorobenzene	12.63	146	67583	11.014	ug/l	91
89) n-Butylbenzene	12.91	91	160332	10.917	ug/l	94
90) Hexachloroethane	12.97	117	35025	10.436	ug/l	82
91) 1,2-Dichlorobenzene	13.00	146	68263	11.207	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.69	75	5024	9.421	ug/l	84

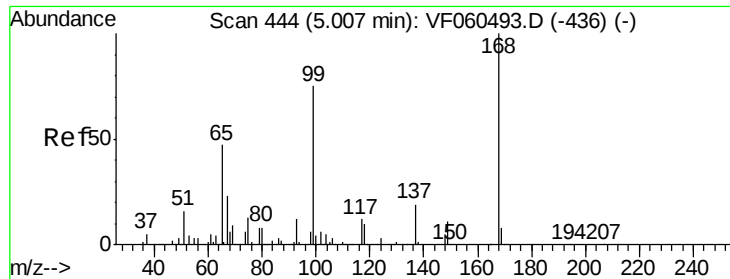
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	49546	10.533	ug/l	92
94) Hexachlorobutadiene	14.25	225	34119	10.669	ug/l	97
95) Naphthalene	14.51	128	85534	10.578	ug/l #	95
96) 1,2,3-Trichlorobenzene	14.65	180	47347	10.804	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

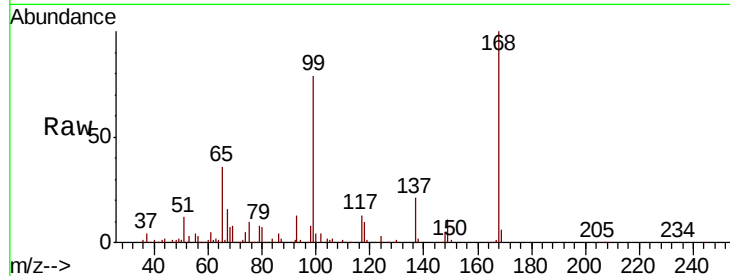
LOQ-SOIL-02-QT4-2018

Tgt Ion:168 Resp: 254249

Ion Ratio Lower Upper

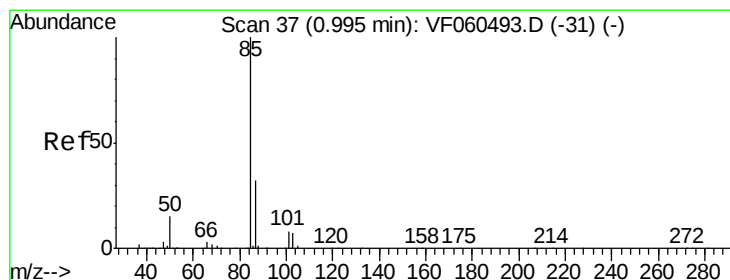
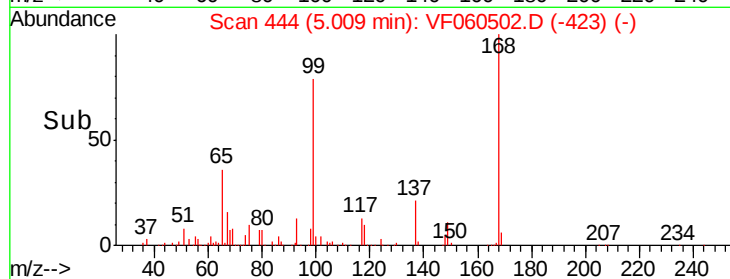
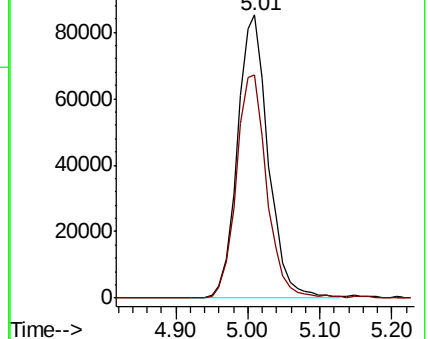
168 100

99 79.0 60.3 90.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 10.227 ug/l

RT: 0.99 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060502.D

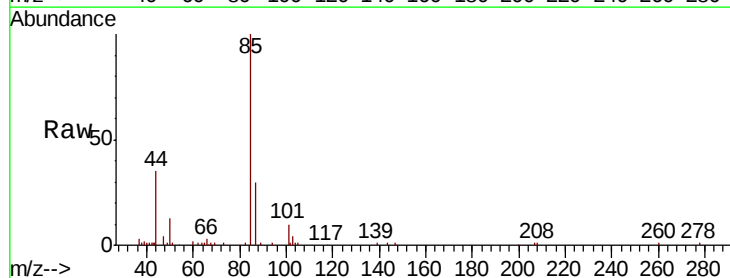
Acq: 9 Oct 2018 21:29

Tgt Ion: 85 Resp: 61560

Ion Ratio Lower Upper

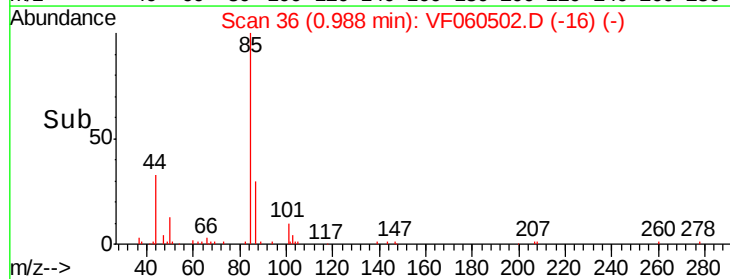
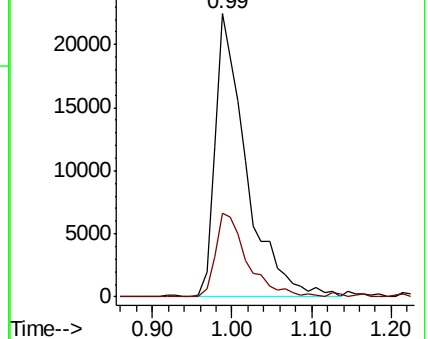
85 100

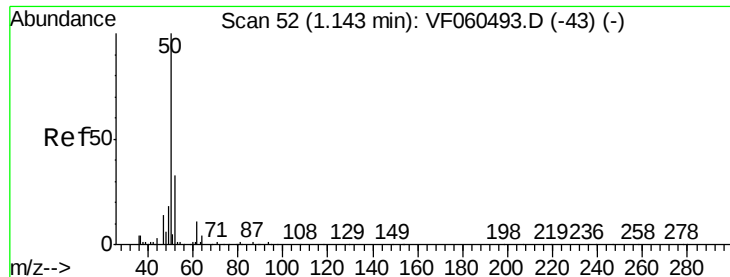
87 29.6 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 11.042 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

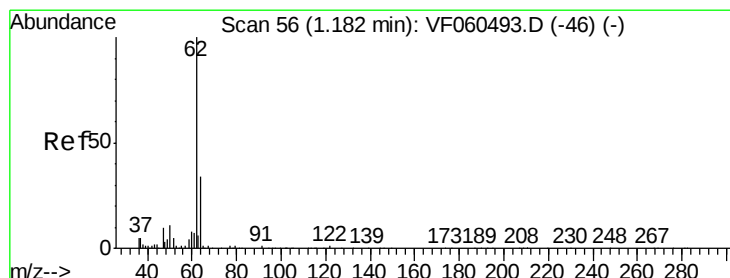
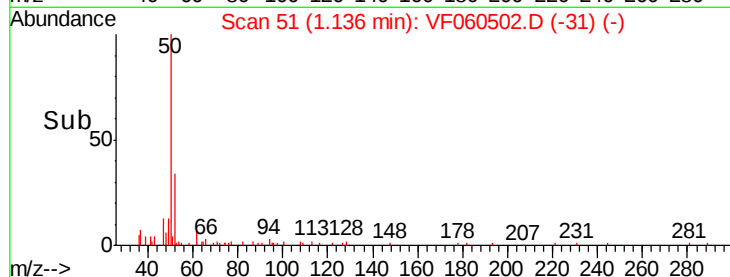
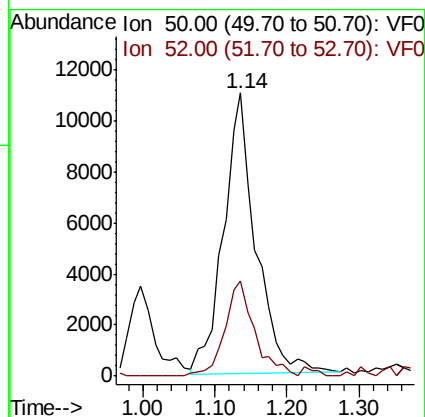
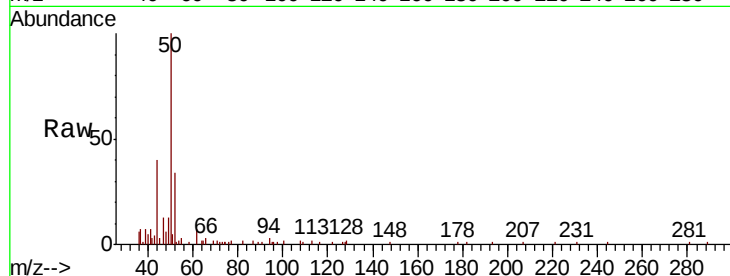
LOQ-SOIL-02-QT4-2018

Tgt Ion: 50 Resp: 34128

Ion Ratio Lower Upper

50 100

52 33.6 25.0 37.4



#4

Vinyl Chloride

Concen: 11.097 ug/l

RT: 1.17 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF060502.D

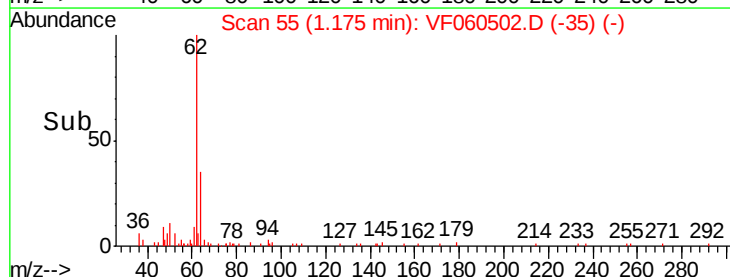
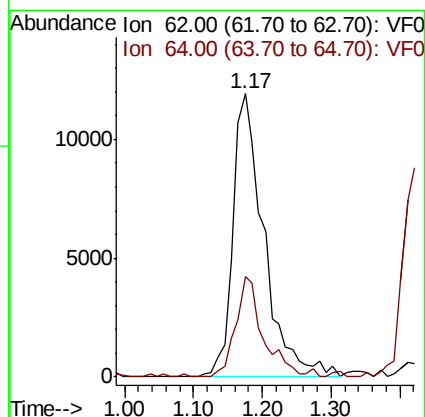
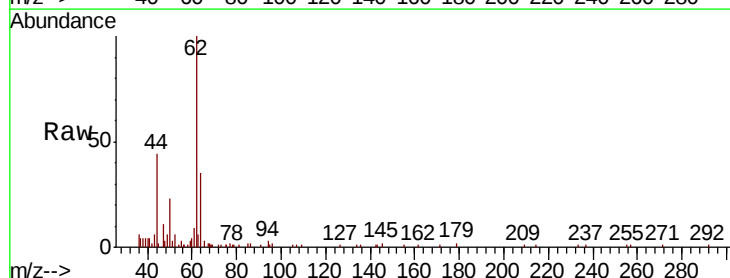
Acq: 9 Oct 2018 21:29

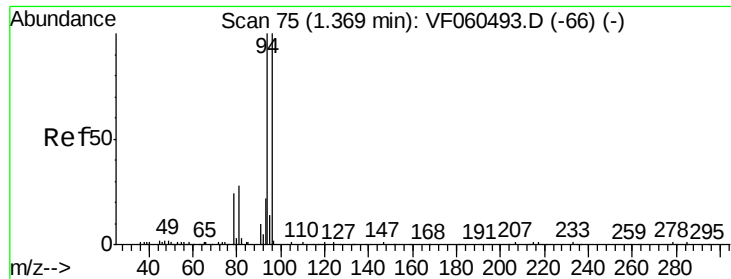
Tgt Ion: 62 Resp: 37205

Ion Ratio Lower Upper

62 100

64 35.4 27.5 41.3





#5

Bromomethane

Concen: 11.886 ug/l

RT: 1.35 min Scan# 73

Delta R.T. -0.02 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

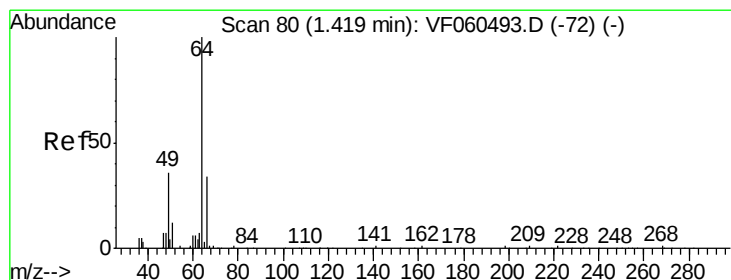
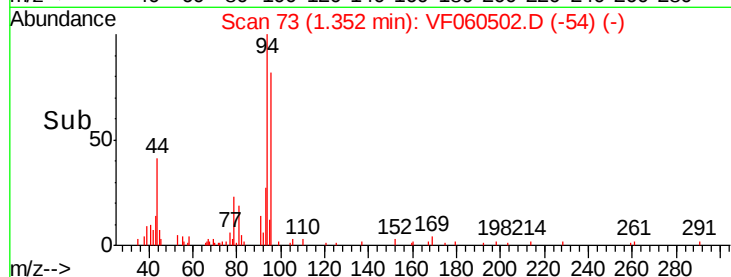
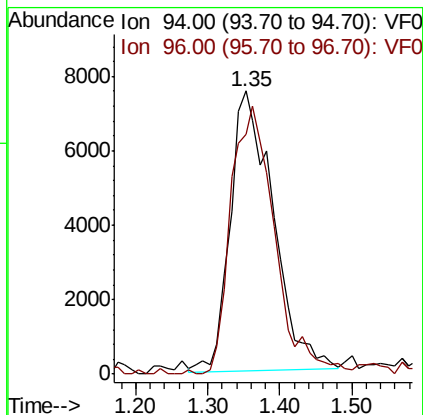
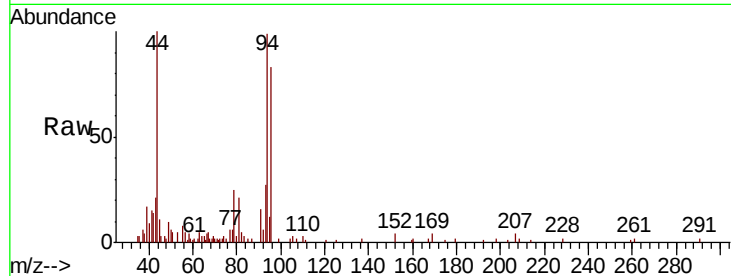
LOQ-SOIL-02-QT4-2018

Tgt Ion: 94 Resp: 31338

Ion Ratio Lower Upper

94 100

96 84.5 80.6 120.8



#6

Chloroethane

Concen: 10.950 ug/l

RT: 1.42 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF060502.D

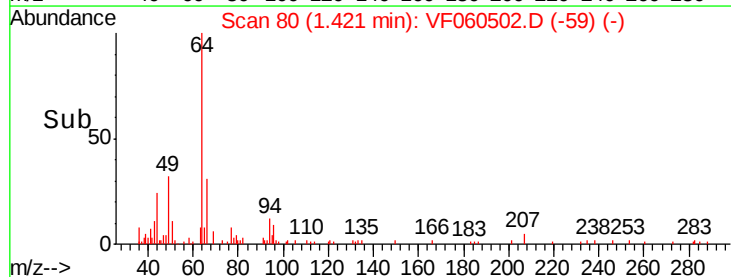
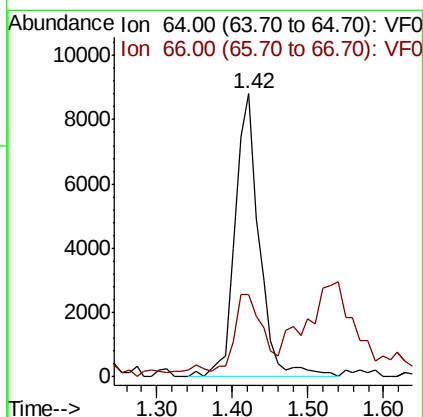
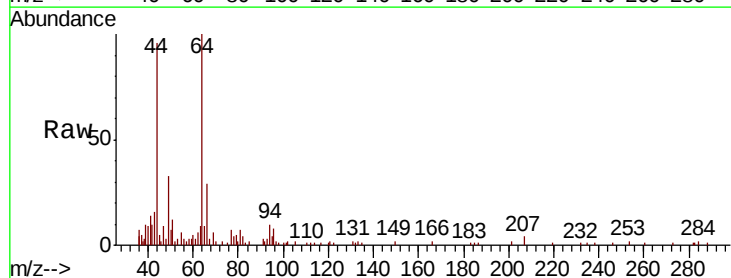
Acq: 9 Oct 2018 21:29

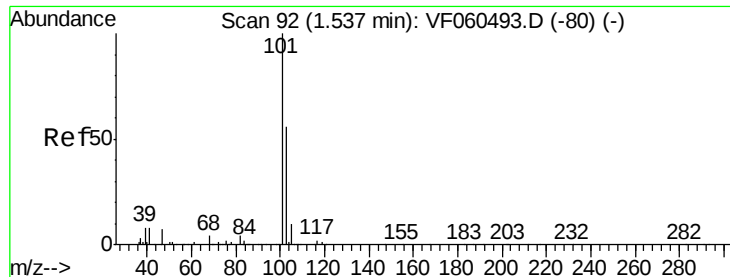
Tgt Ion: 64 Resp: 19407

Ion Ratio Lower Upper

64 100

66 29.0 27.0 40.6





#7

Trichlorofluoromethane

Concen: 10.540 ug/l

RT: 1.54 min Scan# 92

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

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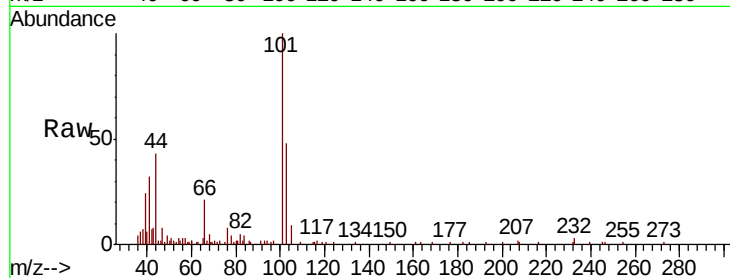
LOQ-SOIL-02-QT4-2018

Tgt Ion:101 Resp: 79206

Ion Ratio Lower Upper

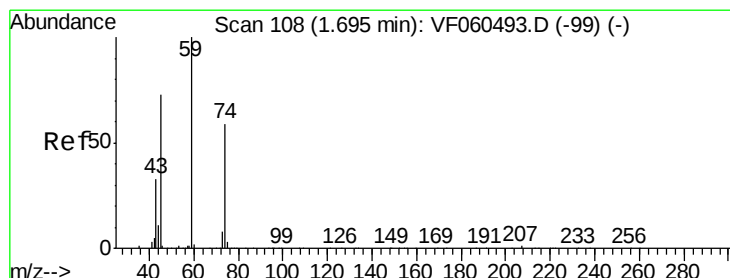
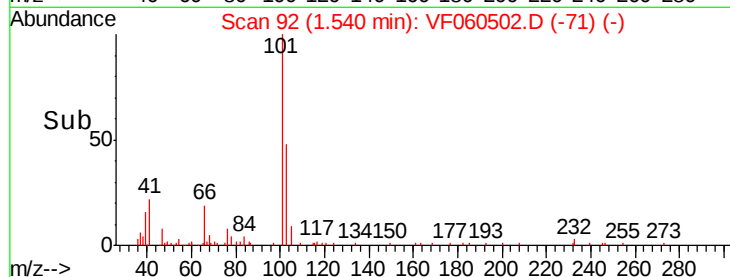
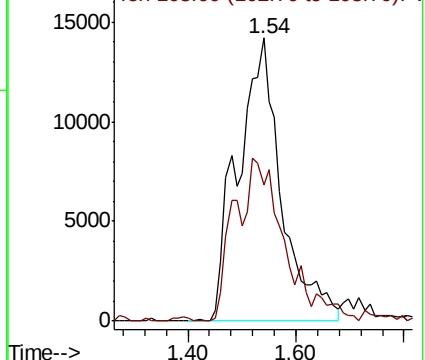
101 100

103 48.2 44.6 66.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 10.718 ug/l

RT: 1.69 min Scan# 107

Delta R.T. -0.01 min

Lab File: VF060502.D

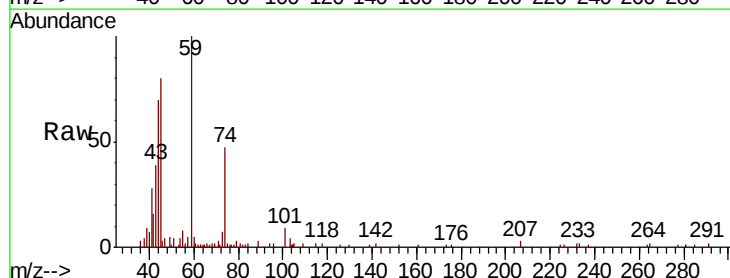
Acq: 9 Oct 2018 21:29

Tgt Ion: 74 Resp: 11525

Ion Ratio Lower Upper

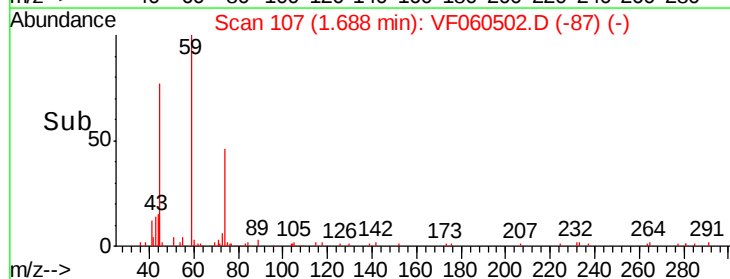
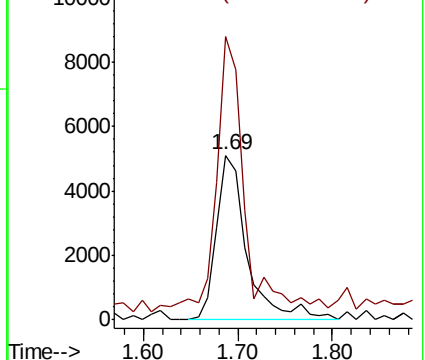
74 100

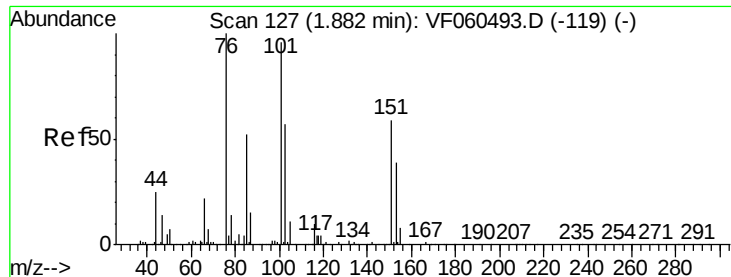
45 171.8 62.7 188.1



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: 10.767 ug/l

RT: 1.87 min Scan# 126

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

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LOQ-SOIL-02-QT4-2018

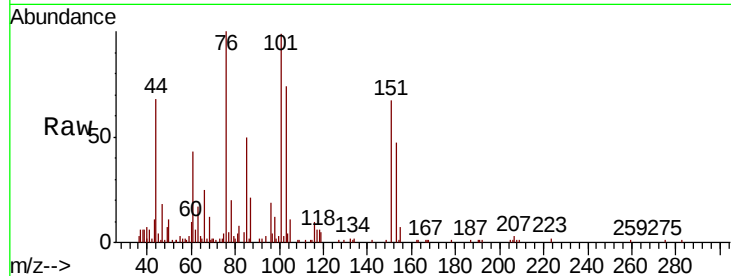
Tgt Ion:101 Resp: 40472

Ion Ratio Lower Upper

101 100

85 50.8 41.8 62.6

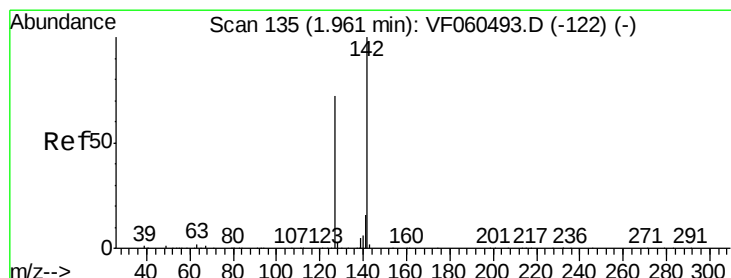
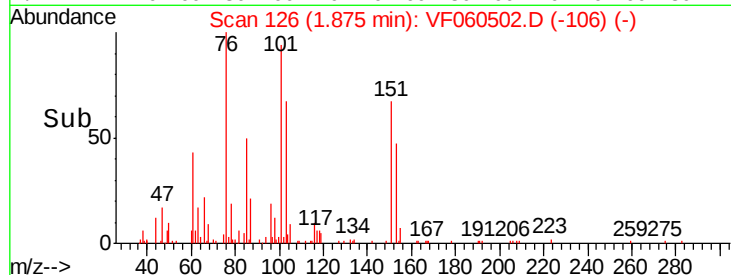
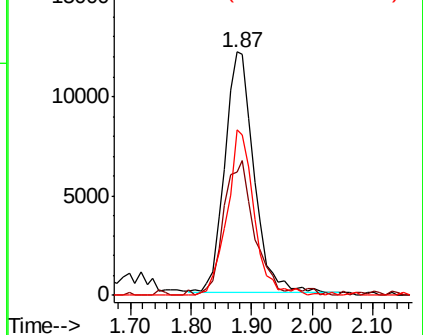
151 68.1 47.4 71.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 10.580 ug/l

RT: 1.94 min Scan# 133

Delta R.T. -0.02 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

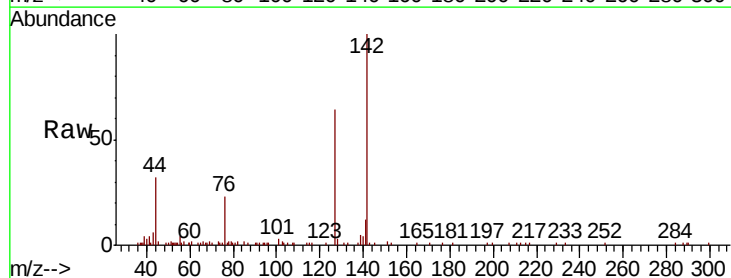
Tgt Ion:142 Resp: 63054

Ion Ratio Lower Upper

142 100

127 63.9 57.9 86.9

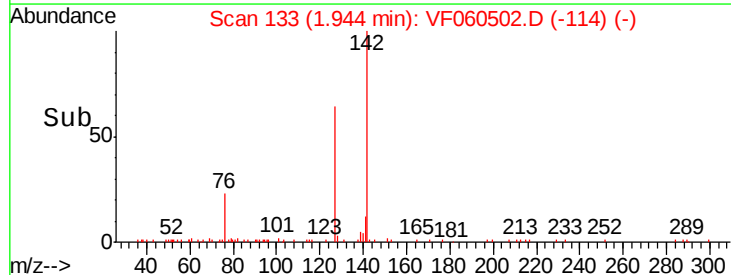
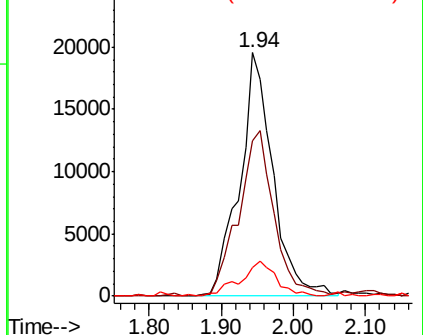
141 11.6 12.7 19.1#

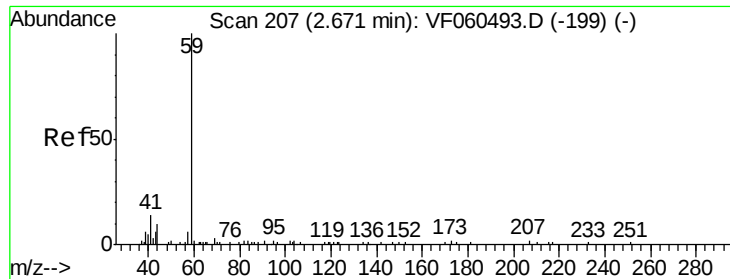


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

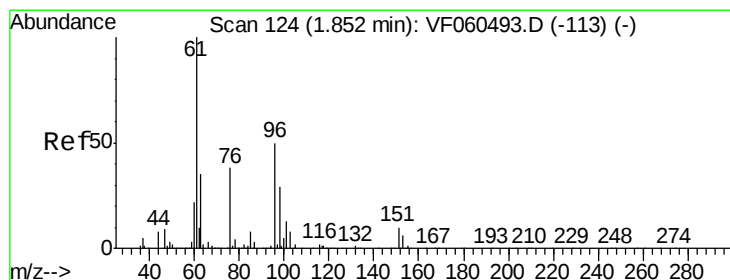
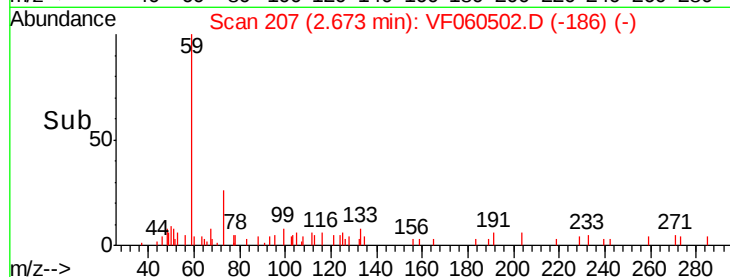
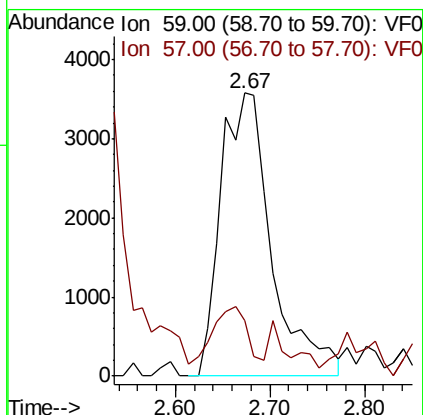
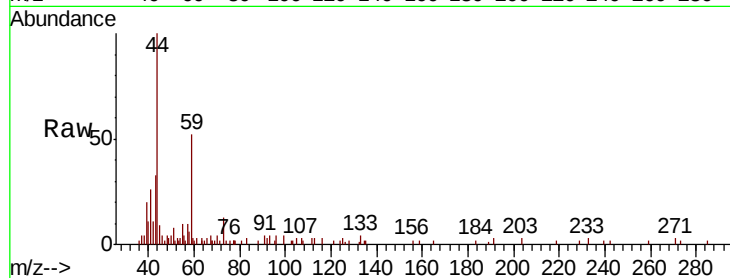




#11
Tert butyl alcohol
Concen: 65.997 ug/l
RT: 2.67 min Scan# 207
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

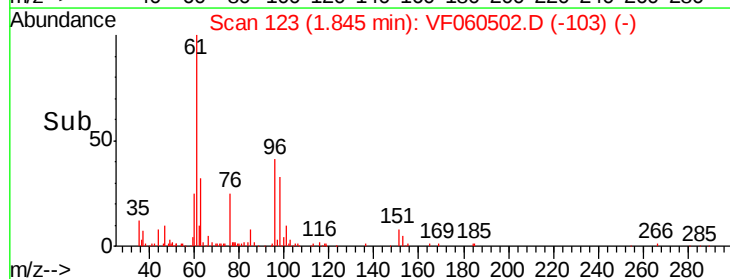
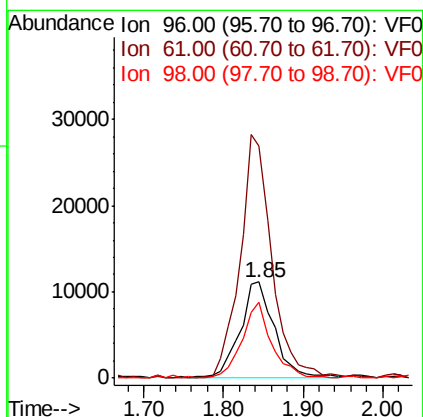
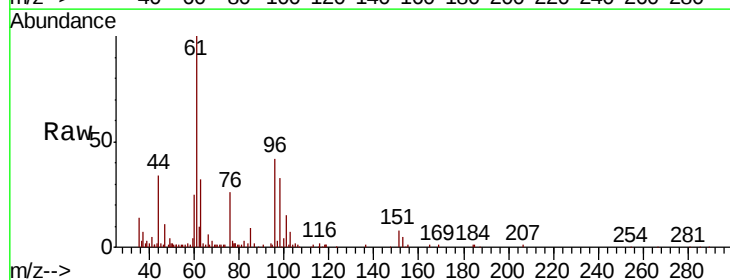
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

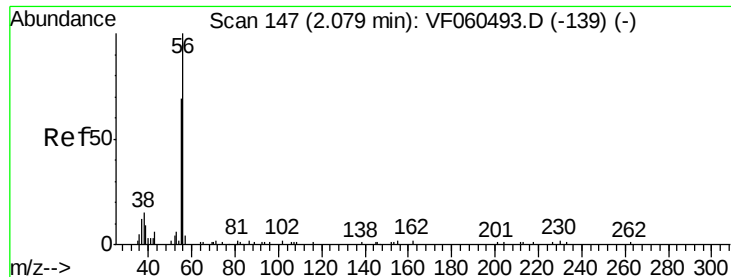
Tgt Ion: 59 Resp: 13334
Ion Ratio Lower Upper
59 100
57 19.7 10.2 15.2#



#12
1,1-Dichloroethene
Concen: 10.553 ug/l
RT: 1.85 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 96 Resp: 33137
Ion Ratio Lower Upper
96 100
61 240.9 161.9 242.9
98 79.3 47.4 71.2#

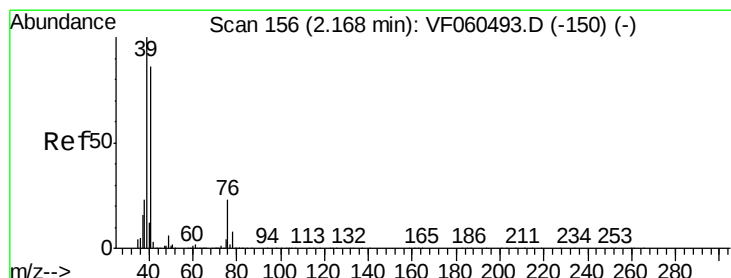
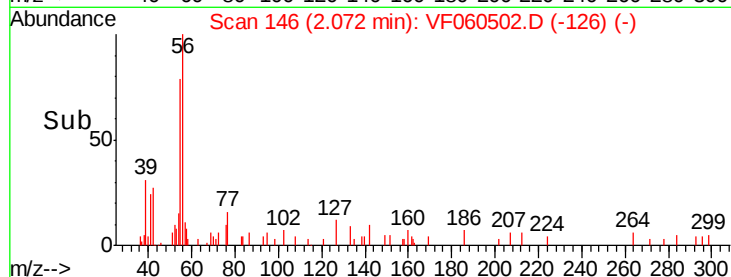
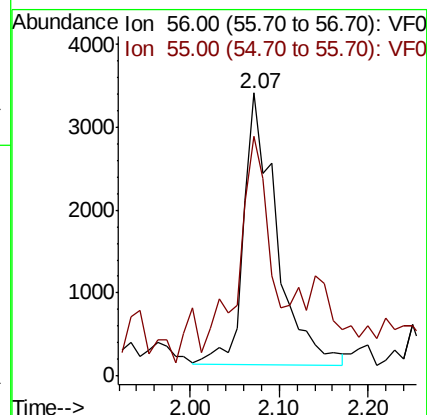
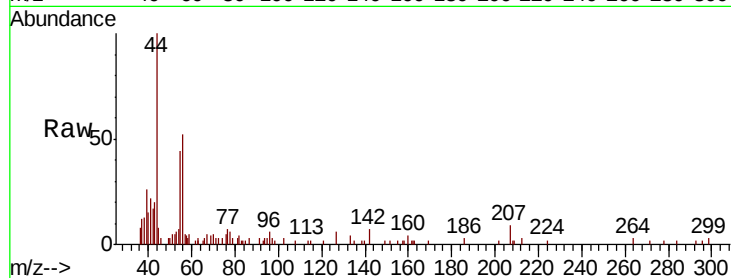




#13
Acrolein
Concen: 57.146 ug/l
RT: 2.07 min Scan# 146
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

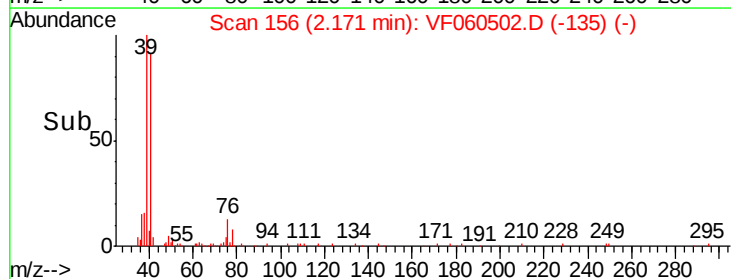
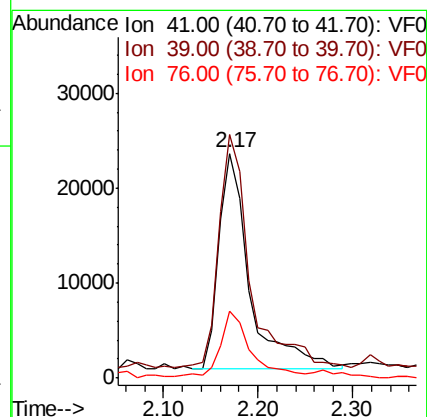
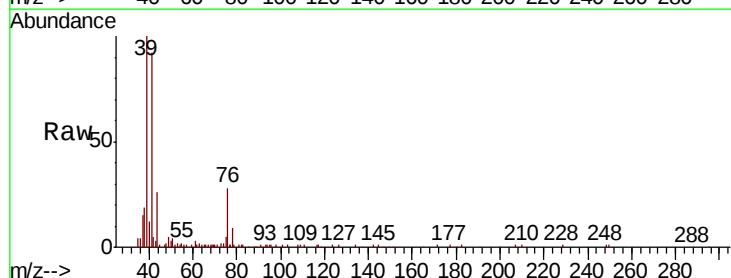
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

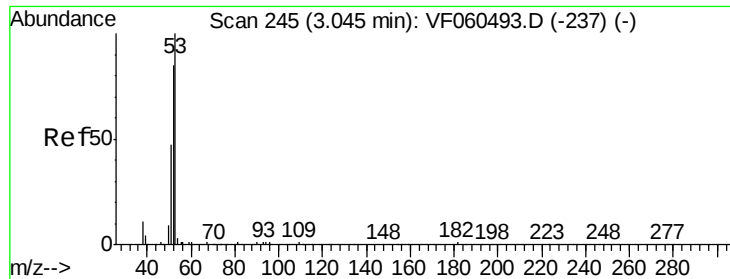
Tgt Ion: 56 Resp: 8395
Ion Ratio Lower Upper
56 100
55 84.5 55.3 82.9#



#14
Allyl chloride
Concen: 11.092 ug/l
RT: 2.17 min Scan# 156
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 41 Resp: 51341
Ion Ratio Lower Upper
41 100
39 108.3 93.1 139.7
76 29.9 21.6 32.4





#15

Acrylonitrile

Concen: 50.533 ug/l

RT: 3.05 min Scan# 245

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

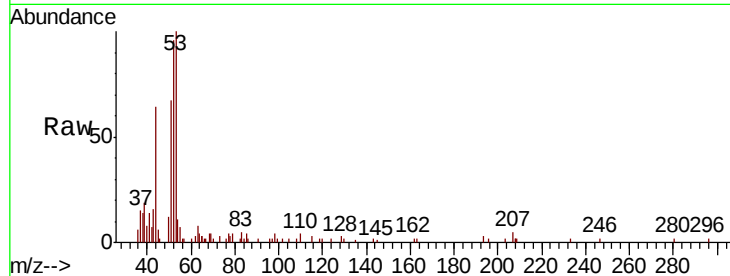
Tgt Ion: 53 Resp: 21494

Ion Ratio Lower Upper

53 100

52 95.7 67.5 101.3

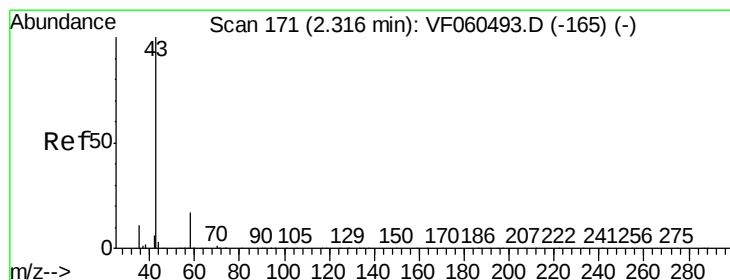
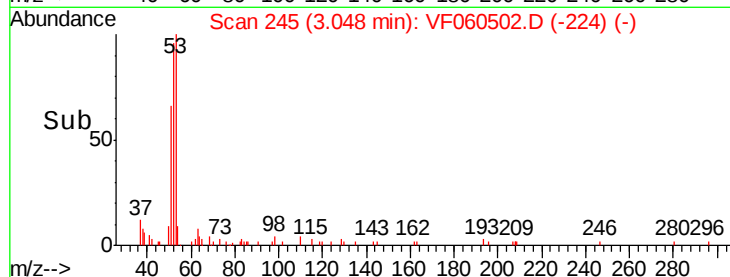
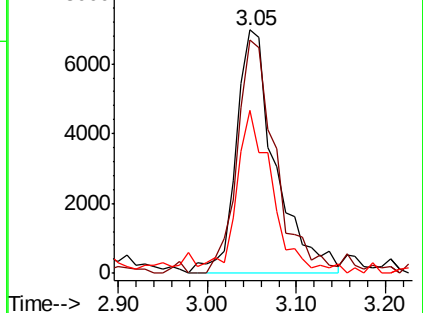
51 67.0 38.2 57.4#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 44.176 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF060502.D

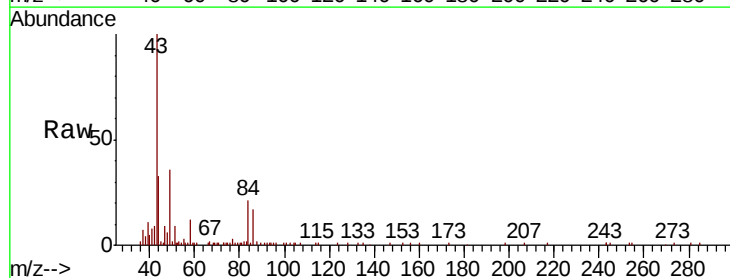
Acq: 9 Oct 2018 21:29

Tgt Ion: 43 Resp: 53269

Ion Ratio Lower Upper

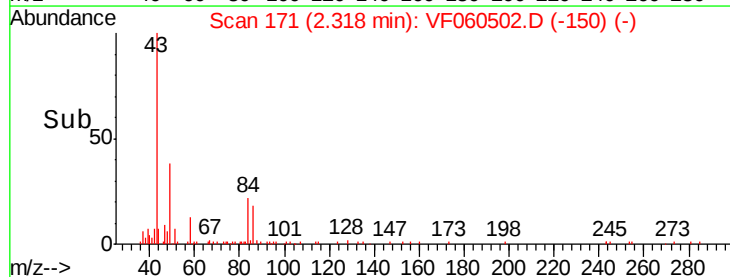
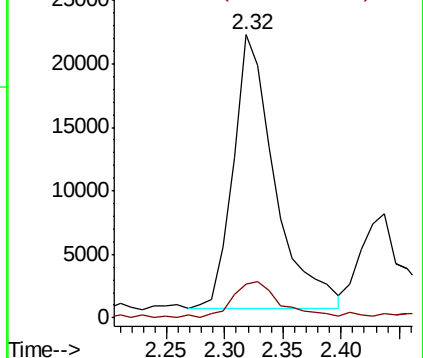
43 100

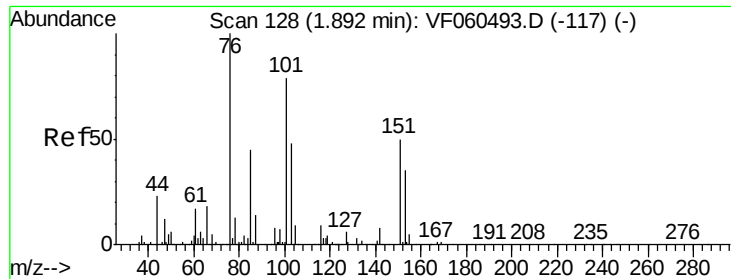
58 12.1 13.2 19.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

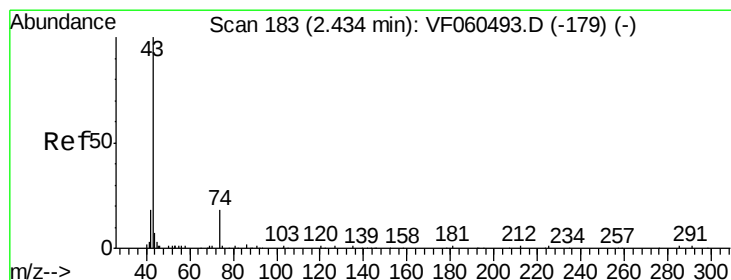
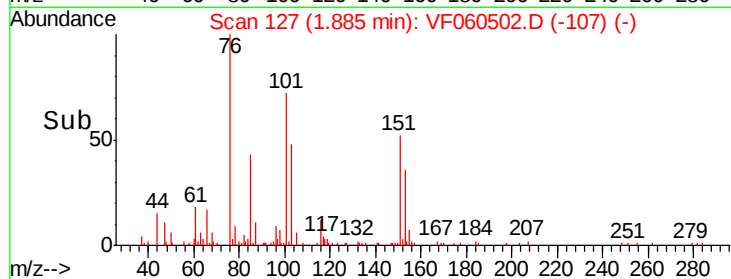
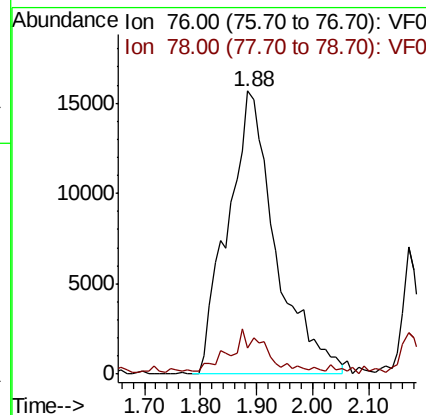
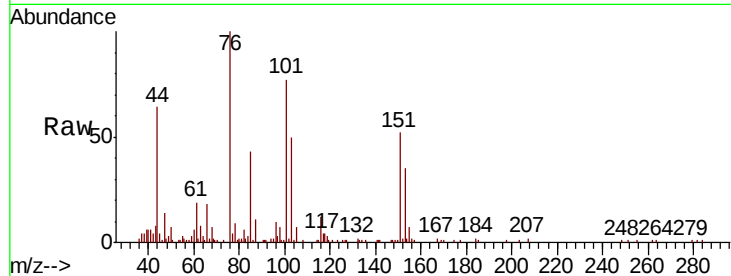




#17
Carbon Disulfide
Concen: 10.624 ug/l
RT: 1.88 min Scan# 127
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

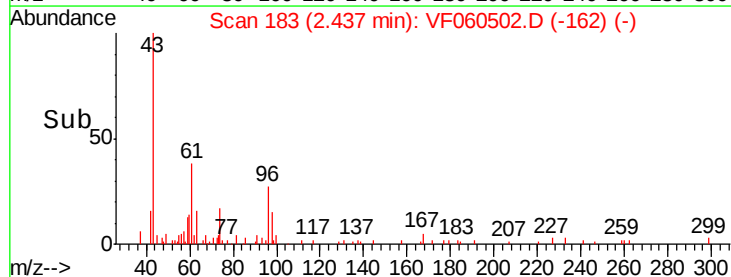
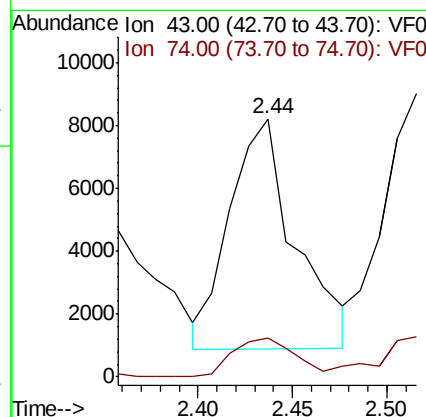
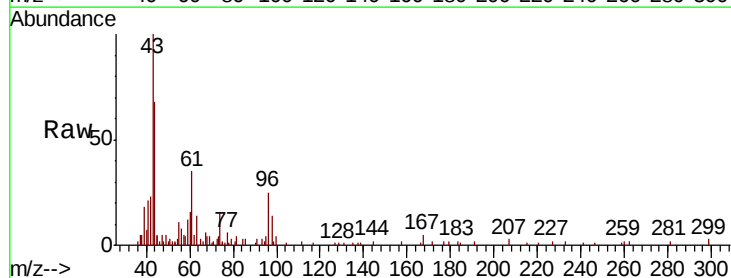
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

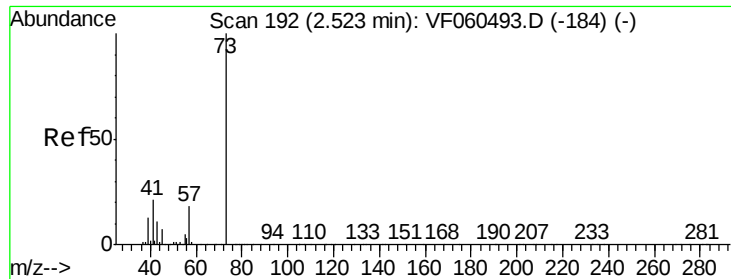
Tgt Ion: 76 Resp: 92767
Ion Ratio Lower Upper
76 100
78 9.1 10.5 15.7#



#18
Methyl Acetate
Concen: 10.413 ug/l
RT: 2.44 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 43 Resp: 17639
Ion Ratio Lower Upper
43 100
74 15.2 12.9 19.3





#19

Methyl tert-butyl Ether

Concen: 11.164 ug/l

RT: 2.53 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

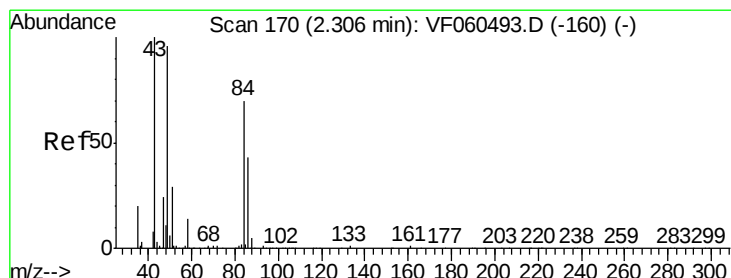
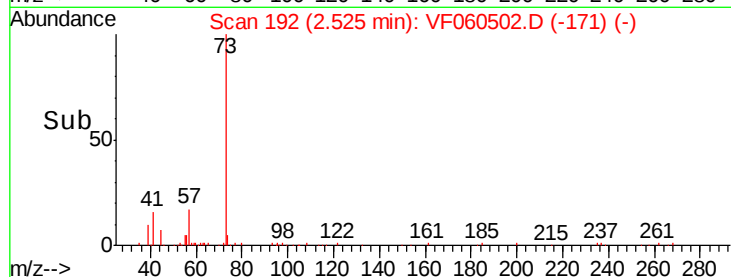
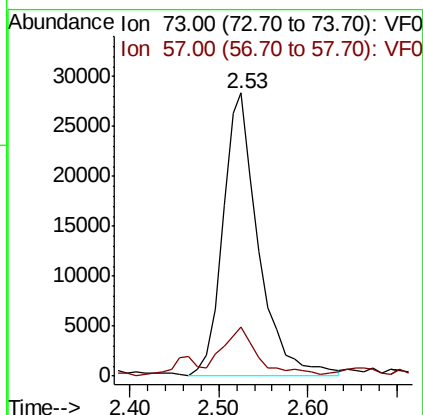
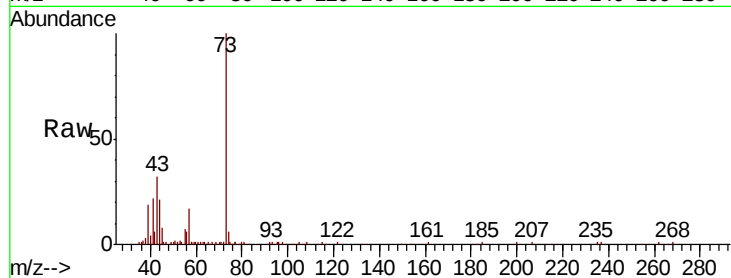
LOQ-SOIL-02-QT4-2018

Tgt Ion: 73 Resp: 78909

Ion Ratio Lower Upper

73 100

57 17.4 15.0 22.6



#20

Methylene Chloride

Concen: 7.371 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion: 84 Resp: 21619

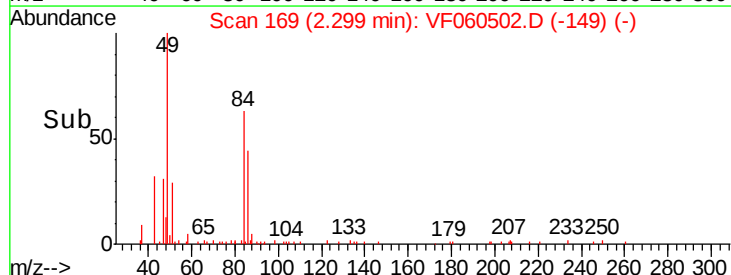
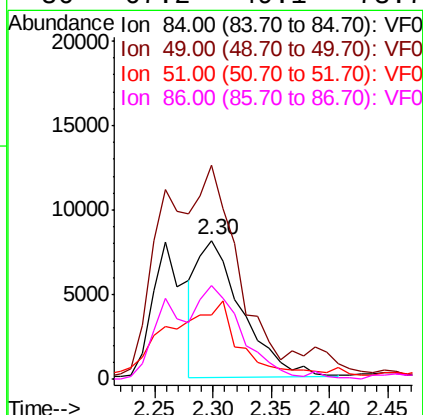
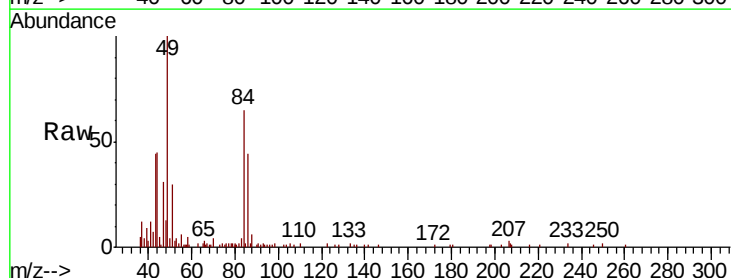
Ion Ratio Lower Upper

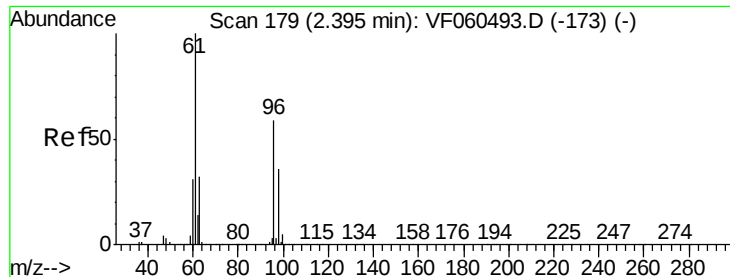
84 100

49 154.4 111.5 167.3

51 46.3 34.6 52.0

86 67.2 49.1 73.7





#21

trans-1,2-Dichloroethene

Concen: 11.408 ug/l

RT: 2.40 min Scan# 179

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

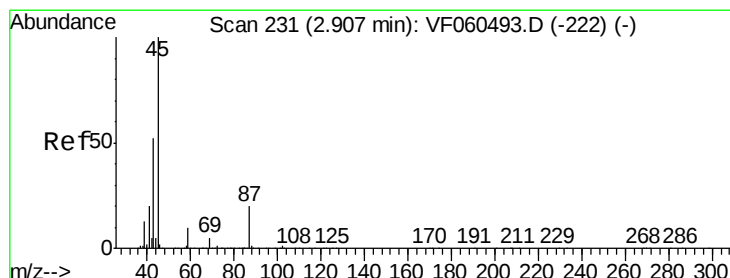
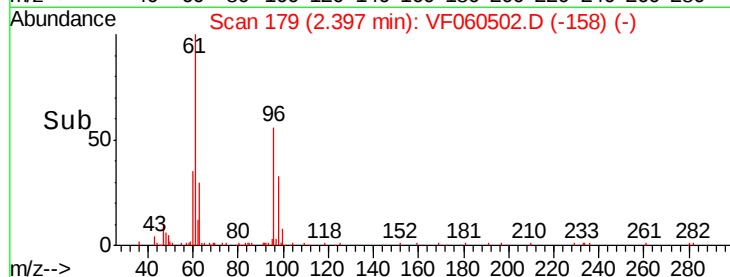
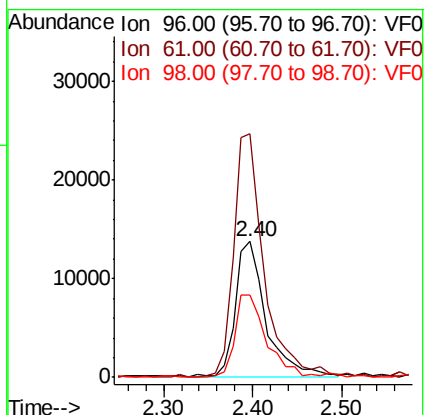
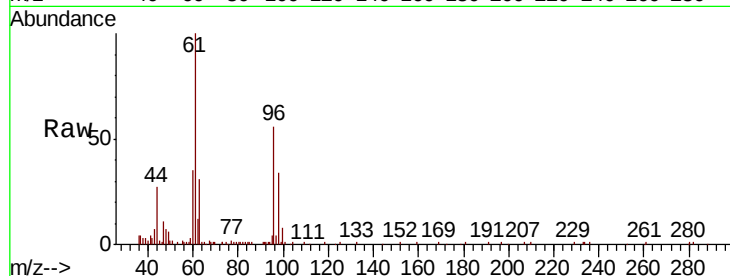
Tgt Ion: 96 Resp: 33435

Ion Ratio Lower Upper

96 100

61 179.3 136.2 204.4

98 60.6 49.7 74.5



#22

Diisopropyl ether

Concen: 11.362 ug/l

RT: 2.90 min Scan# 230

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion: 45 Resp: 108098

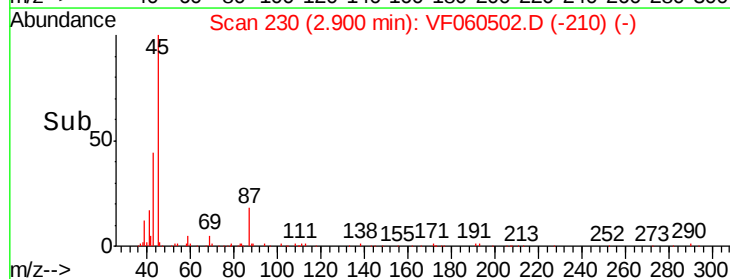
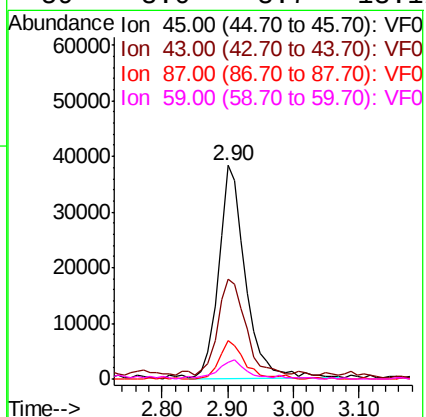
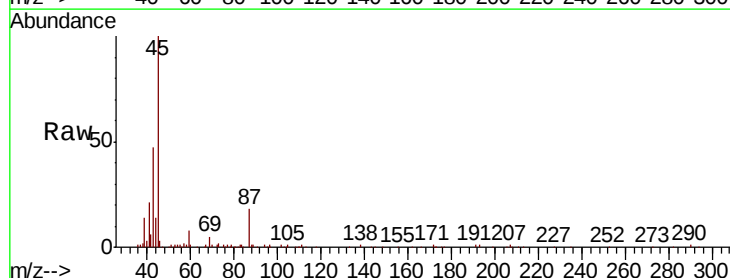
Ion Ratio Lower Upper

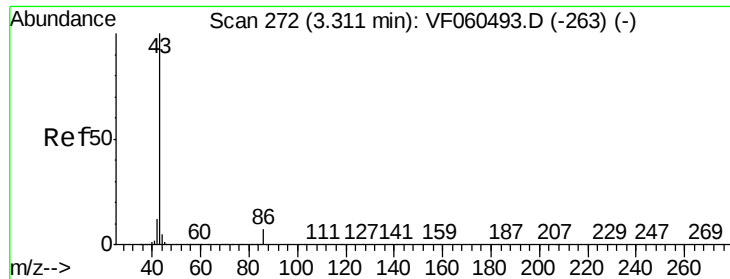
45 100

43 46.6 41.8 62.8

87 18.1 15.7 23.5

59 8.0 8.7 13.1#





#23

Vinyl Acetate

Concen: 53.240 ug/l

RT: 3.30 min Scan# 271

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

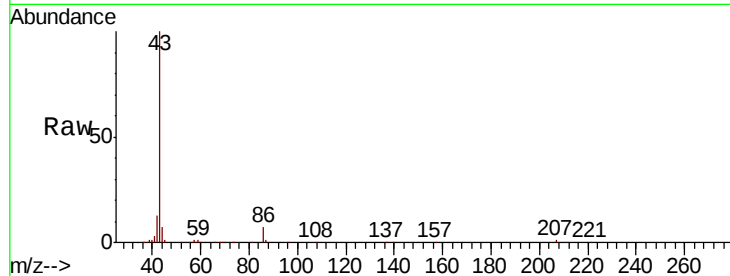
LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 177318

Ion Ratio Lower Upper

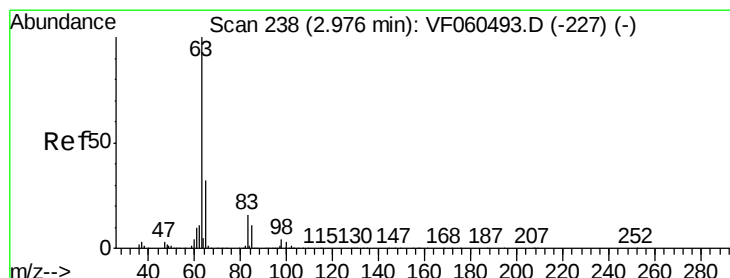
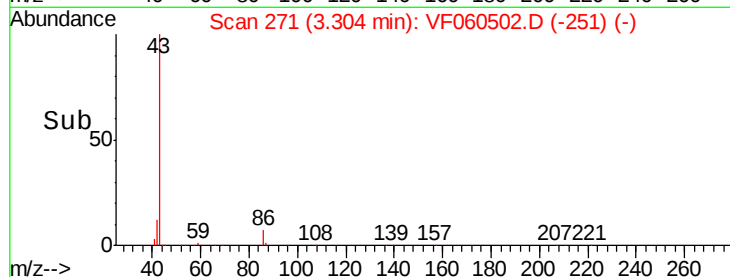
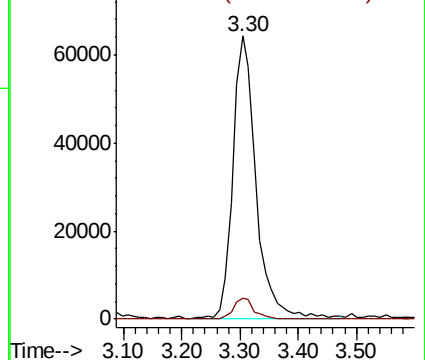
43 100

86 7.2 5.8 8.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 9.981 ug/l

RT: 2.97 min Scan# 237

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

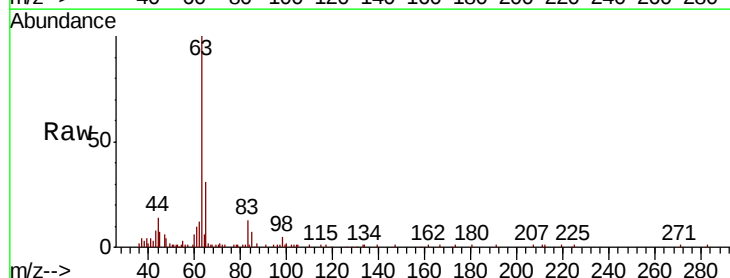
Tgt Ion: 63 Resp: 63727

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

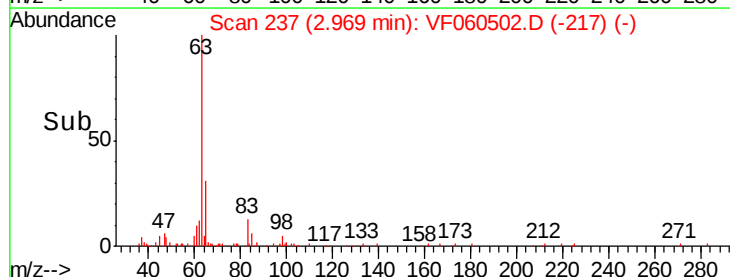
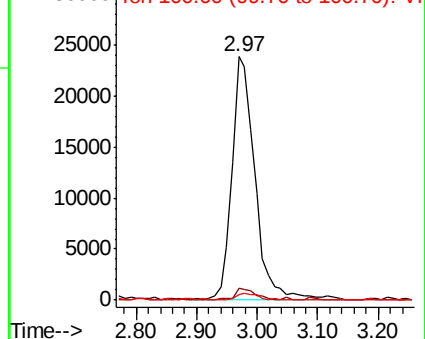
100 2.3 1.5 4.4

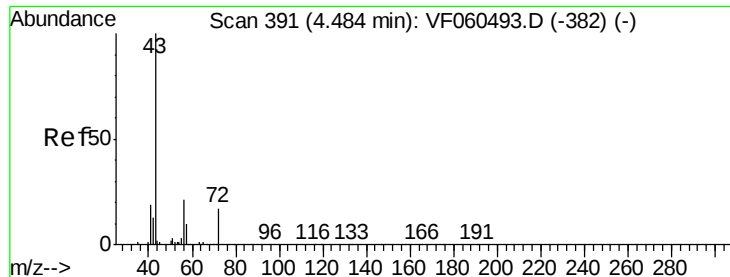


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 59.602 ug/l

RT: 4.48 min Scan# 390

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

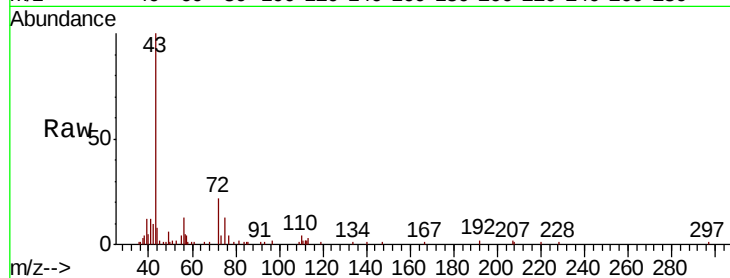
LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 54817

Ion Ratio Lower Upper

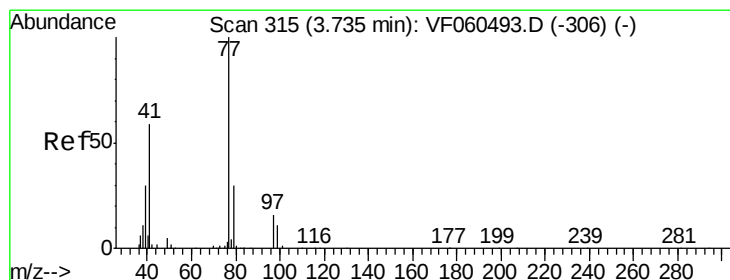
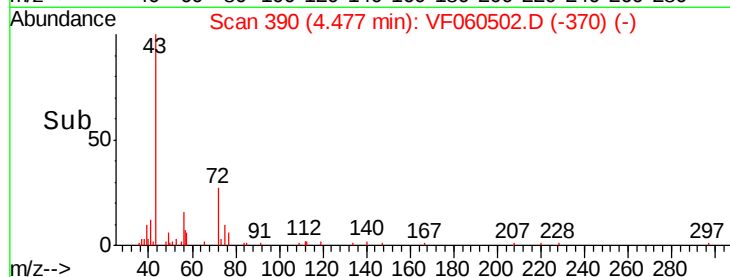
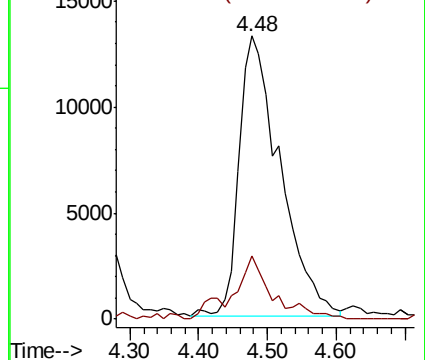
43 100

72 22.3 15.0 22.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 10.872 ug/l

RT: 3.73 min Scan# 314

Delta R.T. -0.01 min

Lab File: VF060502.D

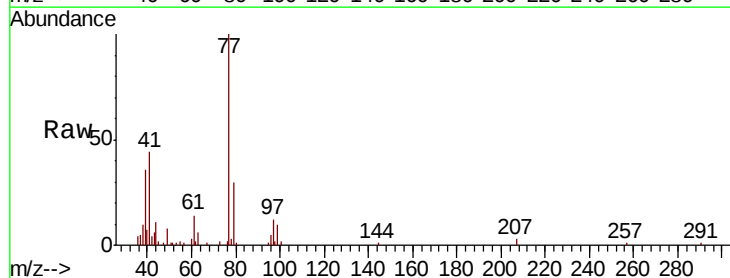
Acq: 9 Oct 2018 21:29

Tgt Ion: 77 Resp: 36192

Ion Ratio Lower Upper

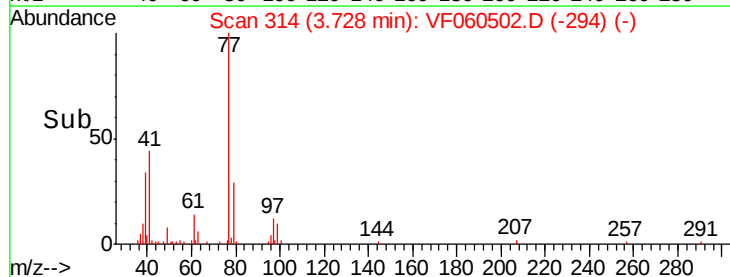
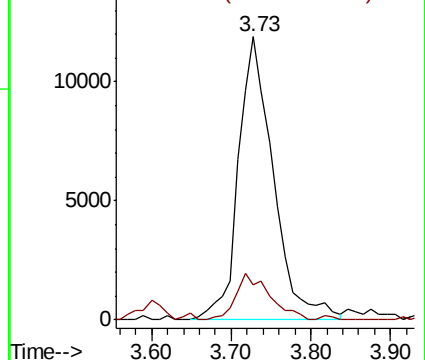
77 100

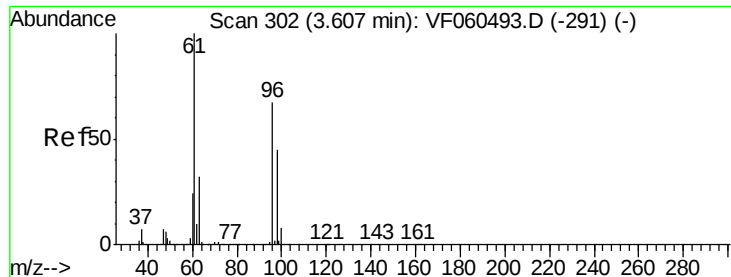
97 12.4 8.6 25.7



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



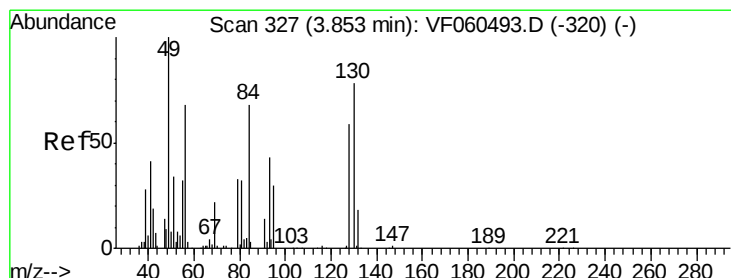
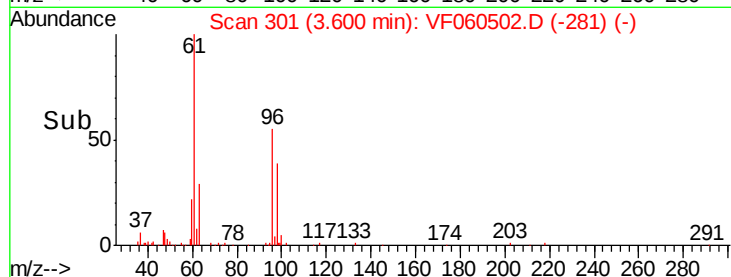
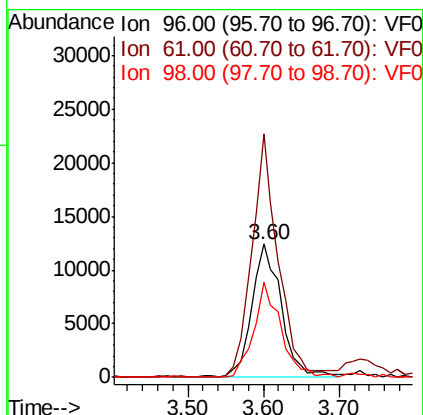
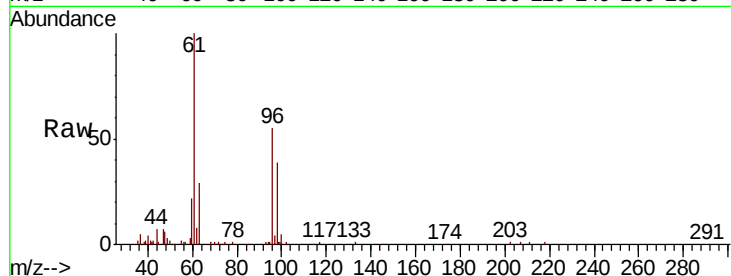


#27

cis-1,2-Dichloroethene
 Concen: 9.895 ug/l
 RT: 3.60 min Scan# 301
 Delta R.T. -0.01 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

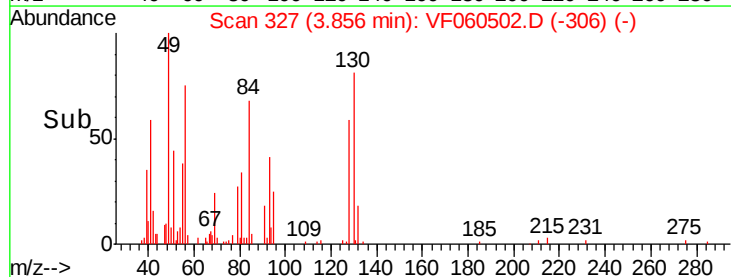
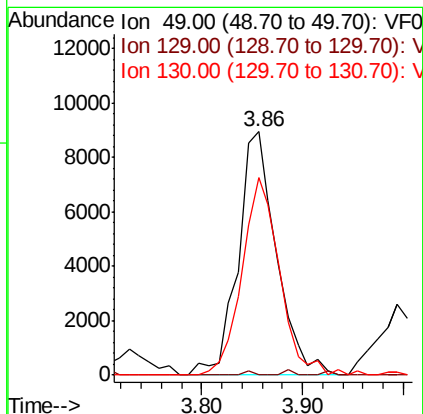
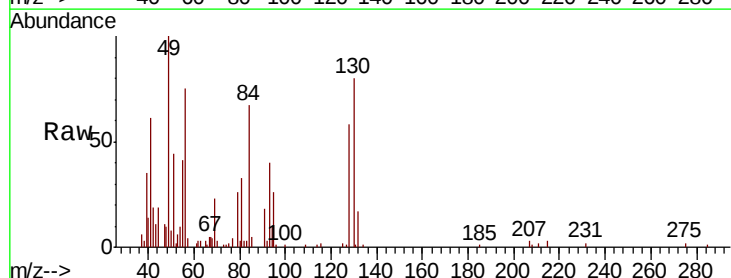
Tgt Ion: 96 Resp: 33851
 Ion Ratio Lower Upper
 96 100
 61 183.0 0.0 298.0
 98 71.6 0.0 135.0

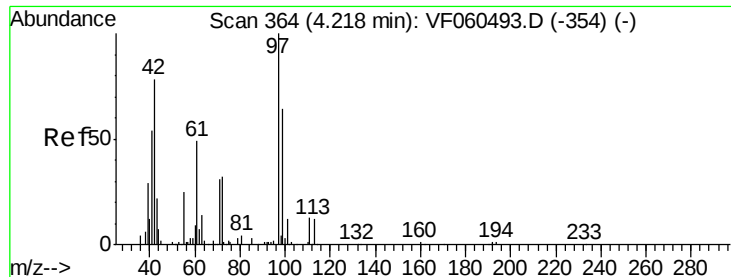


#28

Bromochloromethane
 Concen: 10.674 ug/l
 RT: 3.86 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion: 49 Resp: 23672
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 0.0
 130 81.3 62.2 93.2





#29

Tetrahydrofuran

Concen: 58.103 ug/l

RT: 4.23 min Scan# 365

Delta R.T. 0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

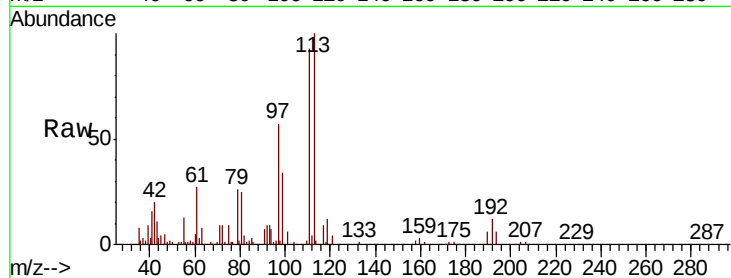
Tgt Ion: 42 Resp: 22527

Ion Ratio Lower Upper

42 100

72 36.7 31.9 47.9

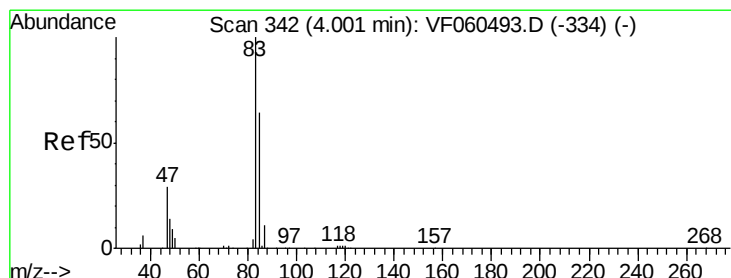
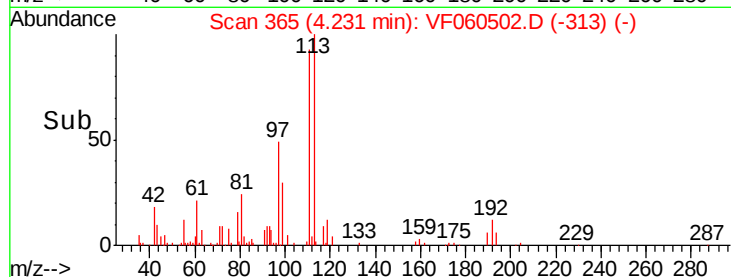
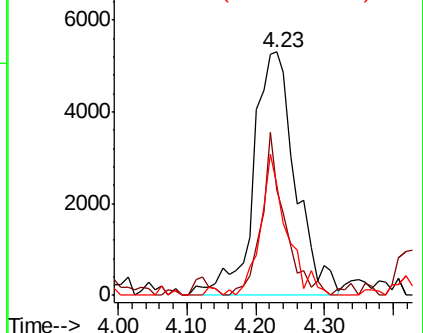
71 36.5 33.4 50.0



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 11.370 ug/l

RT: 4.00 min Scan# 342

Delta R.T. 0.00 min

Lab File: VF060502.D

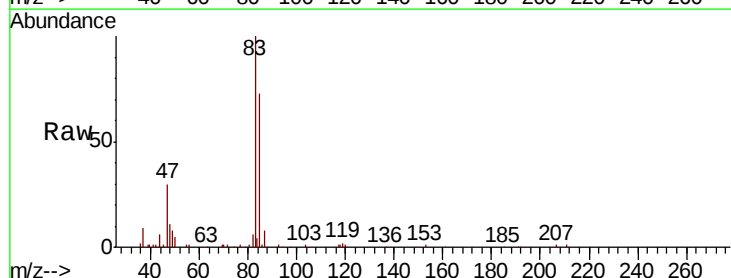
Acq: 9 Oct 2018 21:29

Tgt Ion: 83 Resp: 84007

Ion Ratio Lower Upper

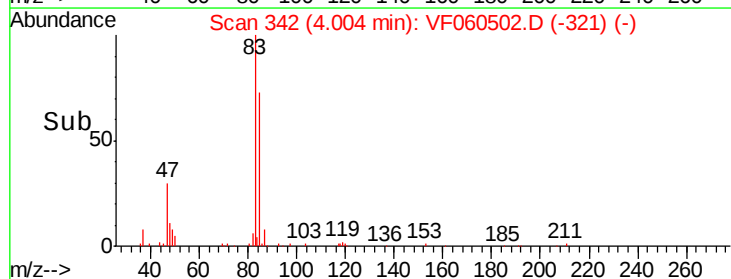
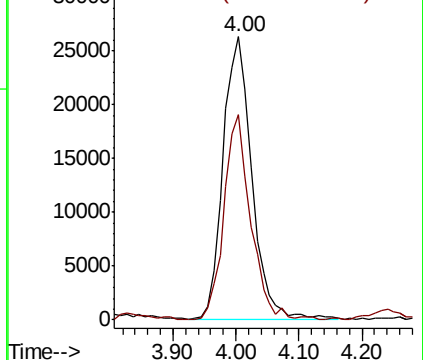
83 100

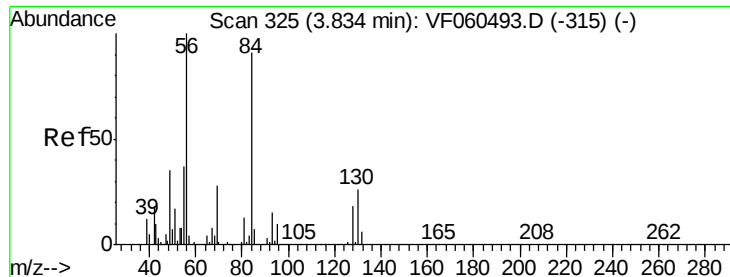
85 72.7 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

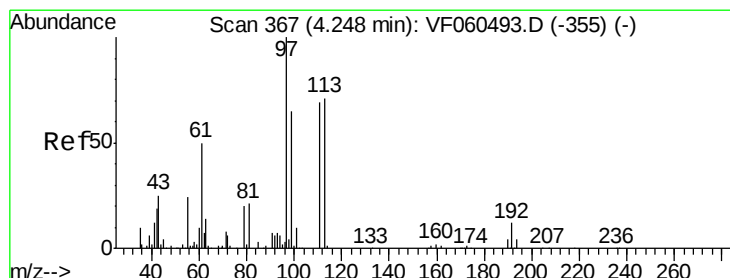
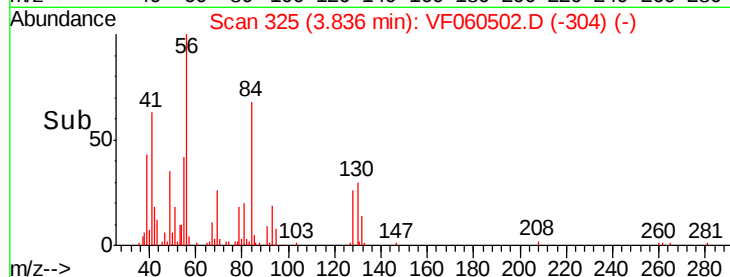
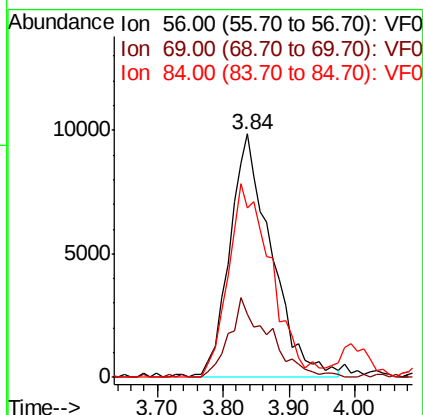
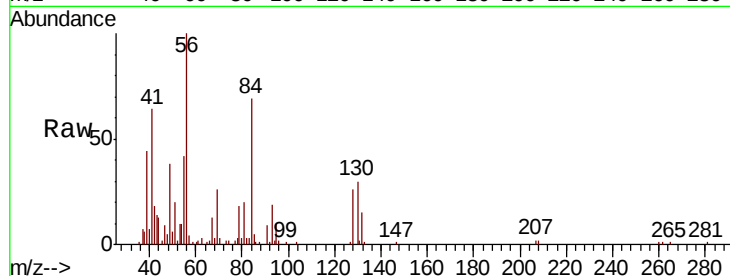




#31
Cyclohexane
Concen: 10.661 ug/l
RT: 3.84 min Scan# 325
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

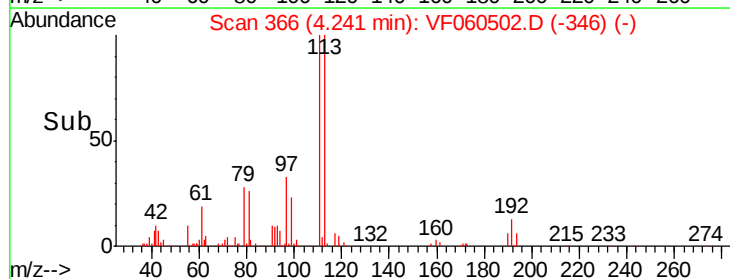
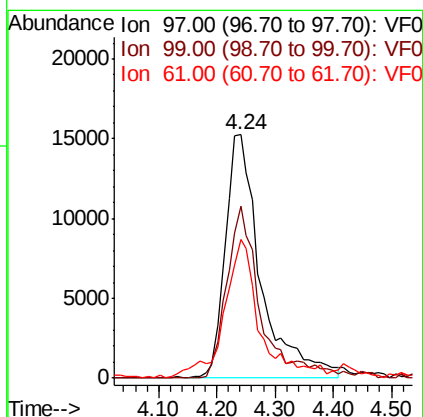
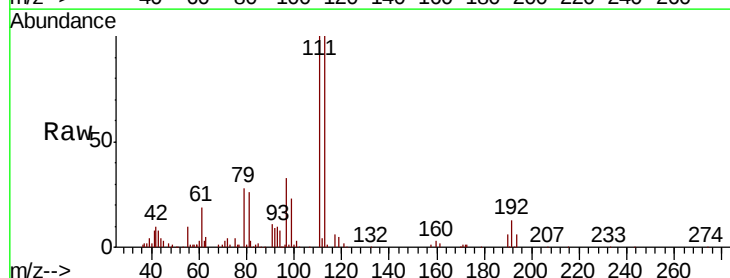
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

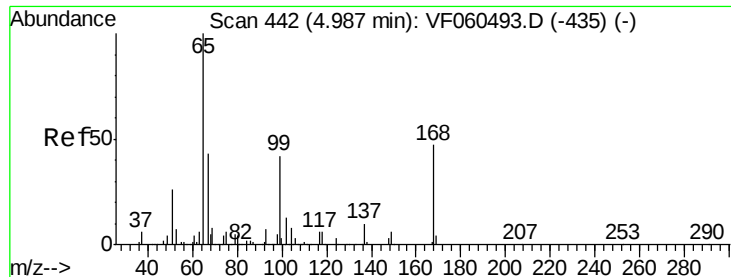
Tgt Ion: 56 Resp: 43545
Ion Ratio Lower Upper
56 100
69 26.0 22.7 34.1
84 69.5 73.1 109.7#



#32
1,1,1-Trichloroethane
Concen: 11.148 ug/l
RT: 4.24 min Scan# 366
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 97 Resp: 64891
Ion Ratio Lower Upper
97 100
99 70.5 52.3 78.5
61 56.8 39.8 59.8





#33

1,2-Dichloroethane-d4

Concen: 55.515 ug/l

RT: 4.99 min Scan# 442

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

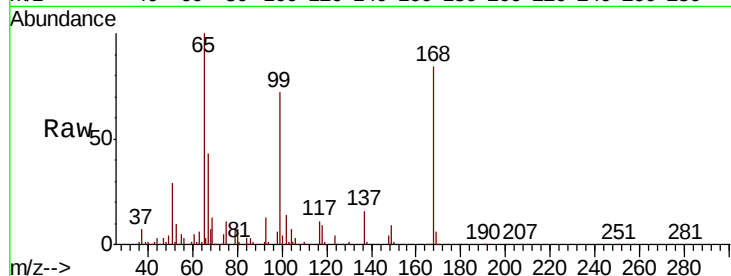
LOQ-SOIL-02-QT4-2018

Tgt Ion: 65 Resp: 214057

Ion Ratio Lower Upper

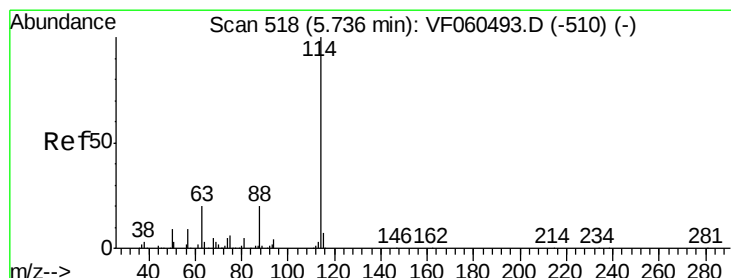
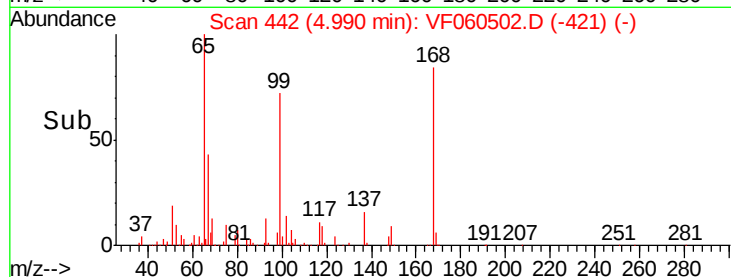
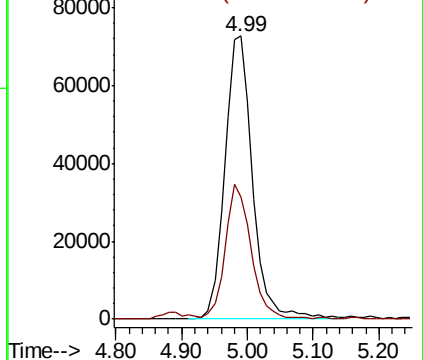
65 100

67 43.3 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 517

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

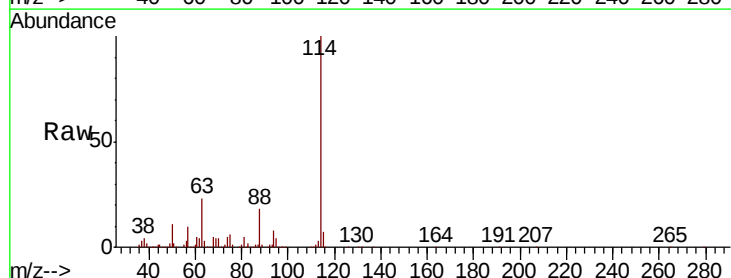
Tgt Ion: 114 Resp: 417586

Ion Ratio Lower Upper

114 100

63 22.7 0.0 40.2

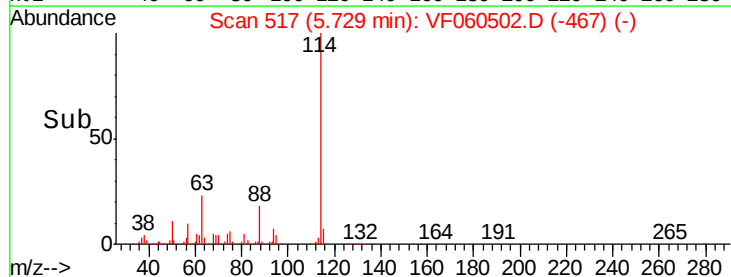
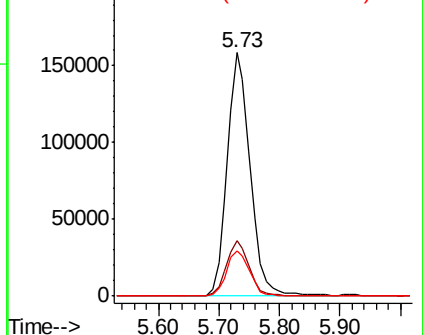
88 18.4 0.0 40.2

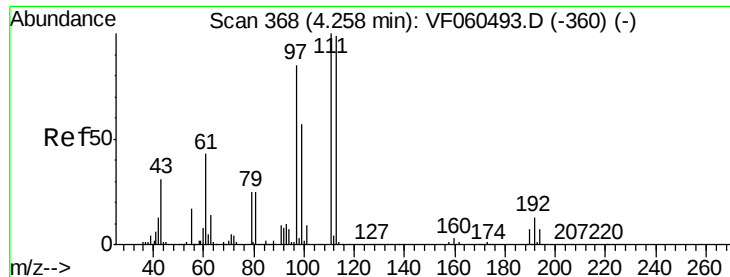


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

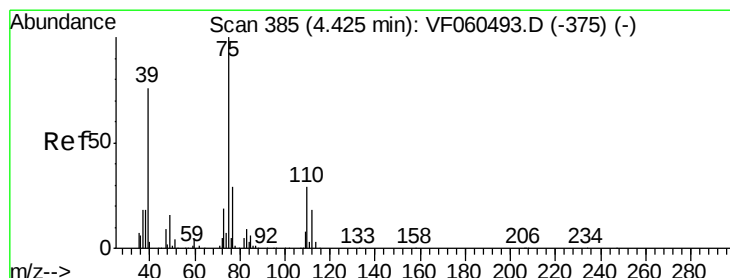
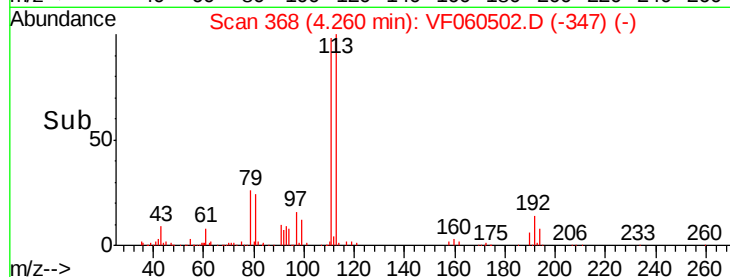
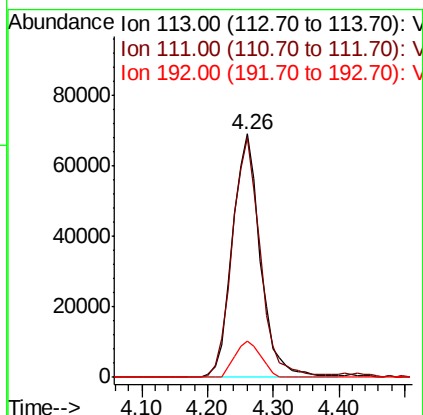
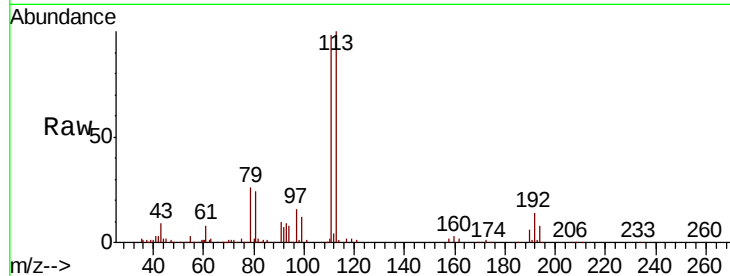




#35
 Dibromofluoromethane
 Concen: 53.940 ug/l
 RT: 4.26 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

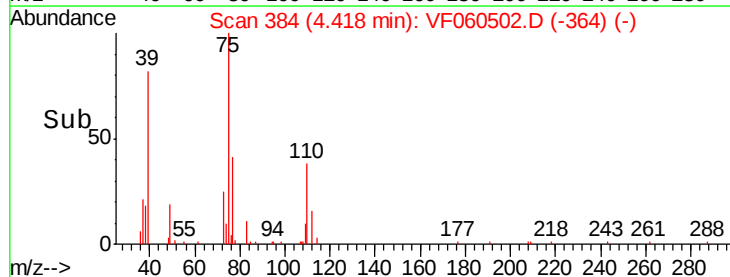
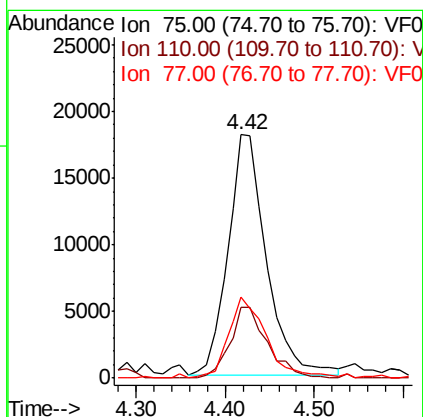
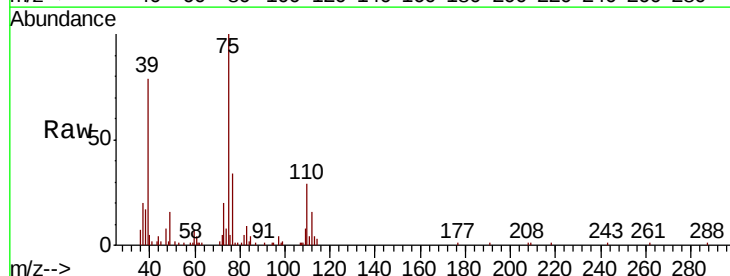
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

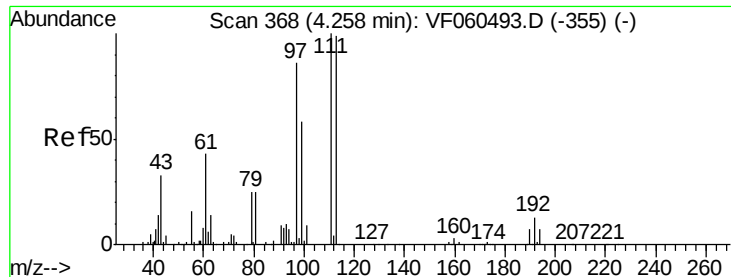
Tgt Ion: 113 Resp: 207336
 Ion Ratio Lower Upper
 113 100
 111 98.4 81.0 121.6
 192 15.0 10.7 16.1



#36
 1,1-Dichloropropene
 Concen: 11.164 ug/l
 RT: 4.42 min Scan# 384
 Delta R.T. -0.01 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion: 75 Resp: 54226
 Ion Ratio Lower Upper
 75 100
 110 33.7 14.4 43.2
 77 33.5 23.5 35.3





#37

Ethyl Acetate

Concen: 12.780 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

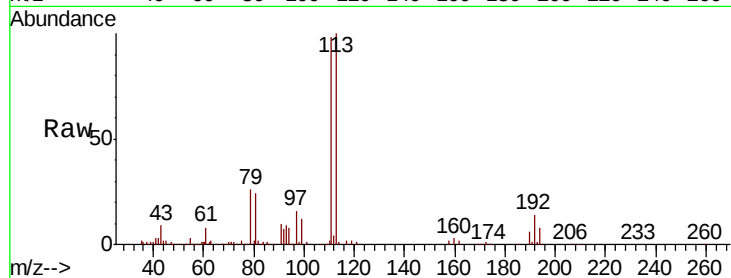
Tgt Ion: 43 Resp: 21927

Ion Ratio Lower Upper

43 100

61 90.4 106.5 159.7#

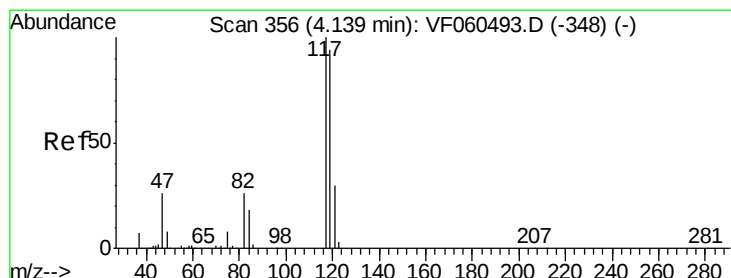
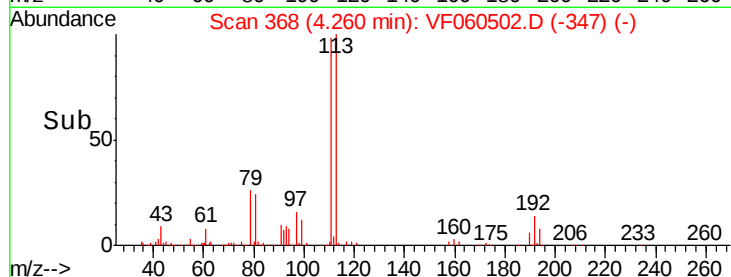
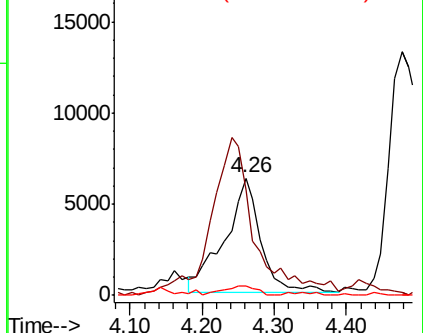
70 7.8 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 14.237 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

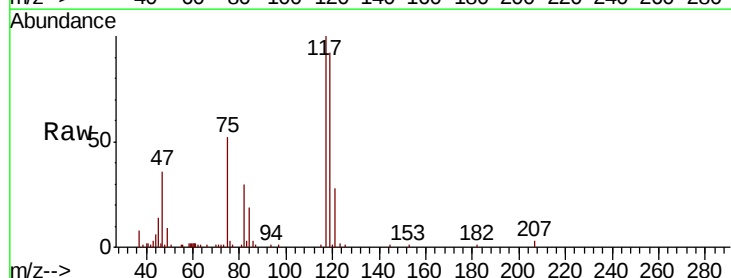
Tgt Ion: 117 Resp: 69466

Ion Ratio Lower Upper

117 100

119 91.7 75.0 112.4

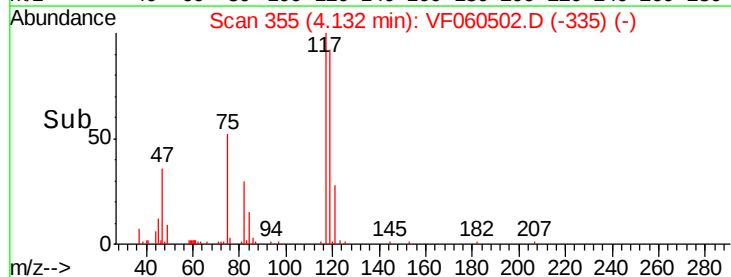
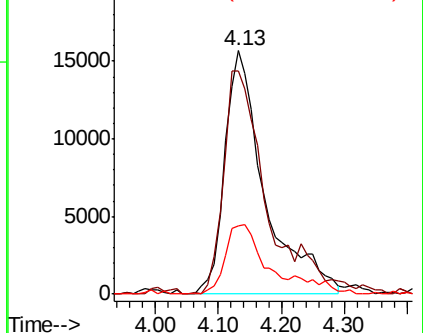
121 28.2 23.8 35.6

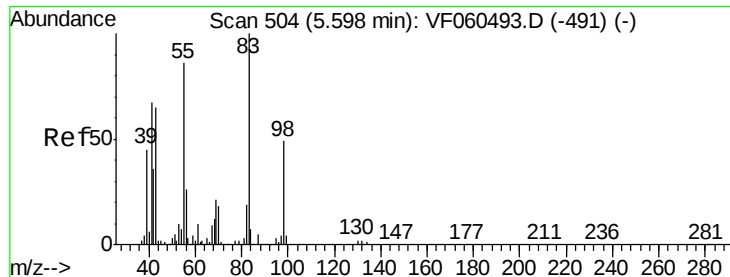


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

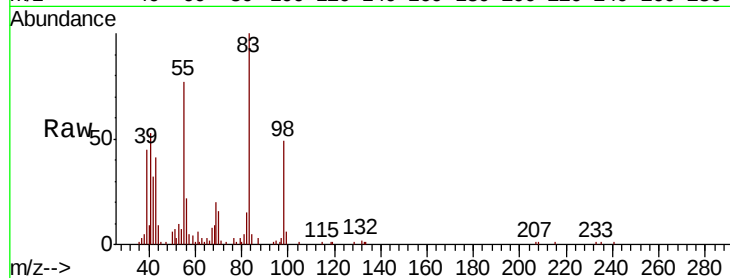




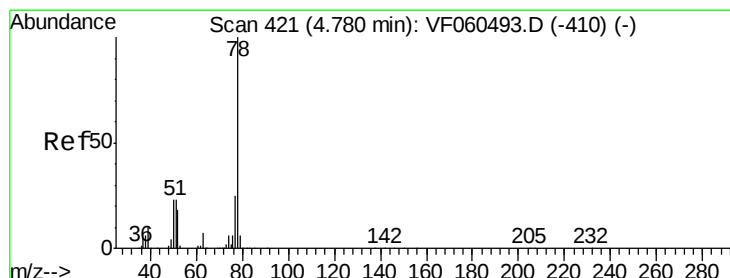
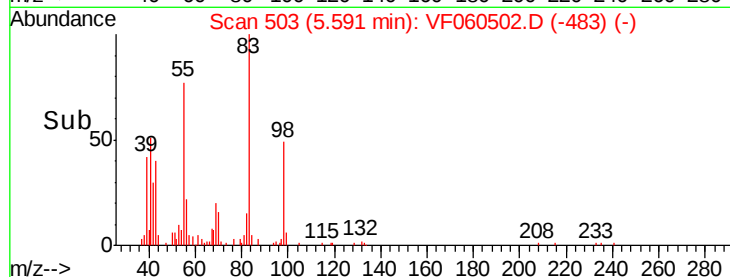
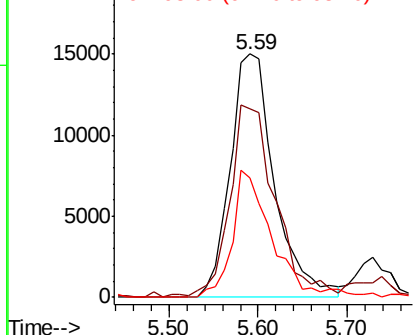
#39
Methylcyclohexane
Concen: 11.371 ug/l
RT: 5.59 min Scan# 503
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion: 83 Resp: 52004
Ion Ratio Lower Upper
83 100
55 77.4 69.2 103.8
98 49.0 39.6 59.4

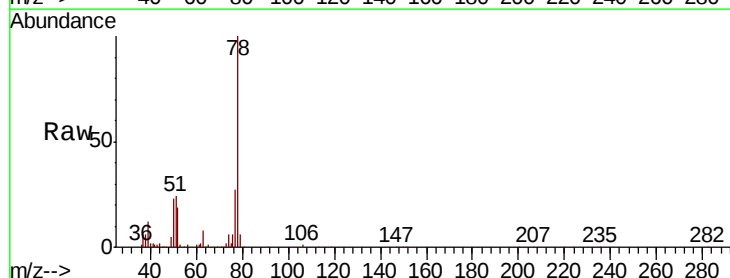


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

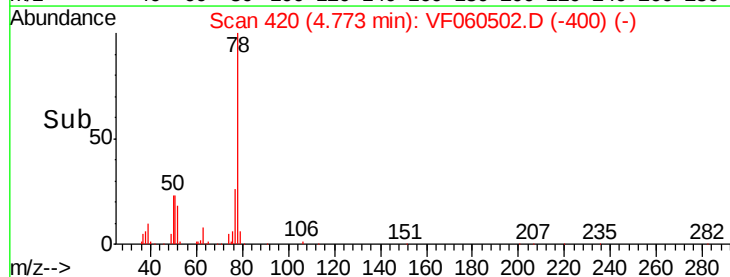
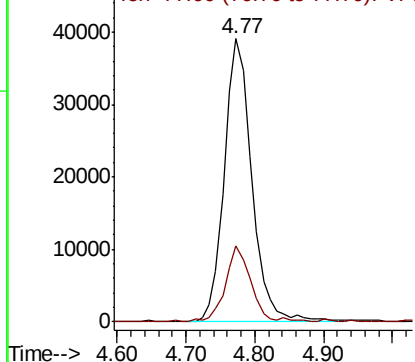


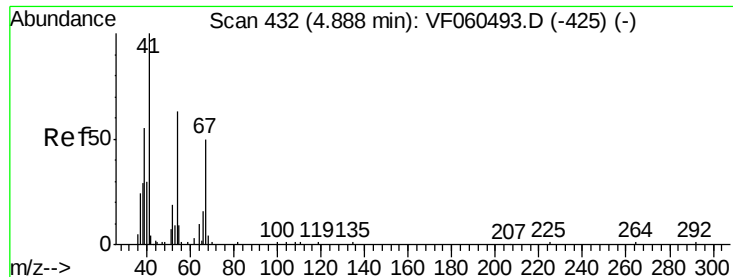
#40
Benzene
Concen: 10.846 ug/l
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 78 Resp: 108169
Ion Ratio Lower Upper
78 100
77 26.9 19.8 29.8



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 10.228 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 41 Resp: 9971

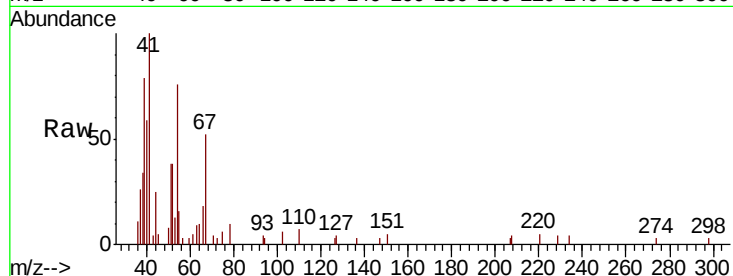
Ion Ratio Lower Upper

41 100

39 79.2 53.1 79.7

67 52.5 39.4 59.0

52 37.7 35.0 52.6

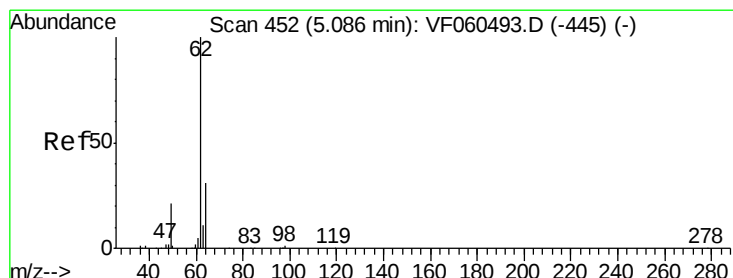
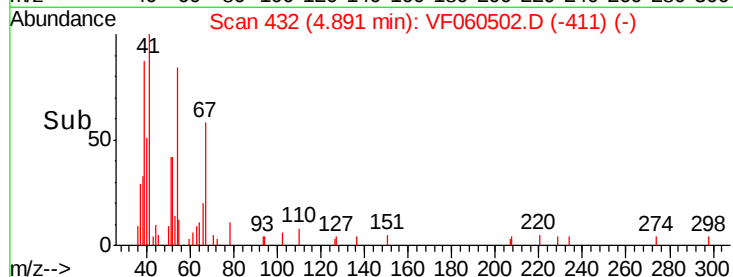
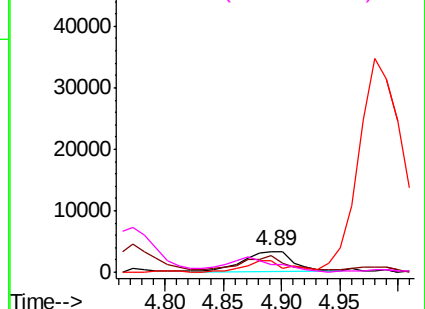


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 10.887 ug/l

RT: 5.08 min Scan# 451

Delta R.T. -0.01 min

Lab File: VF060502.D

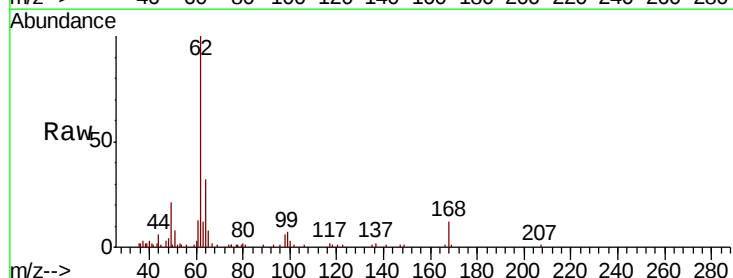
Acq: 9 Oct 2018 21:29

Tgt Ion: 62 Resp: 49256

Ion Ratio Lower Upper

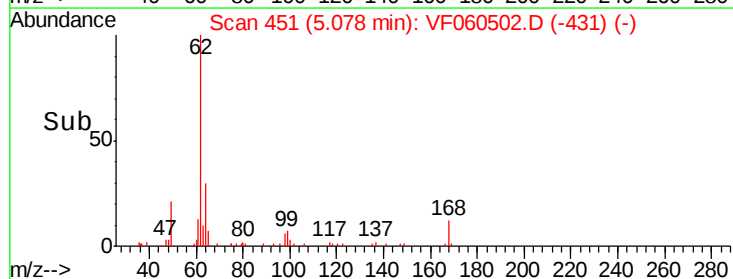
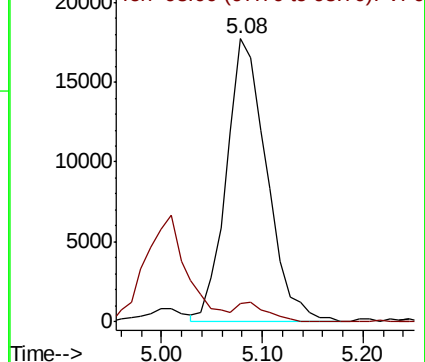
62 100

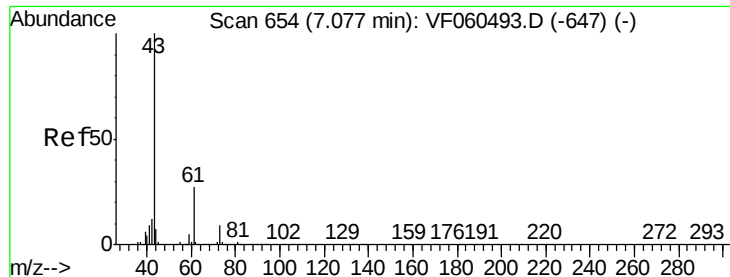
98 6.4 0.0 12.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 9.735 ug/l

RT: 7.08 min Scan# 654

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

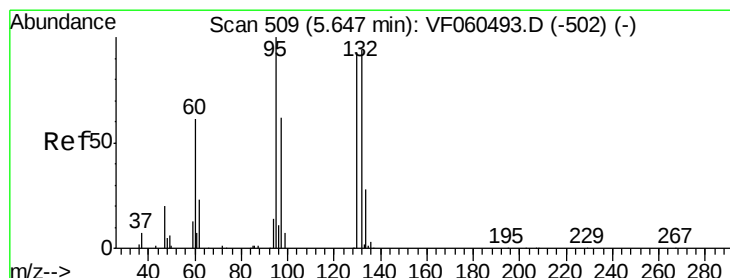
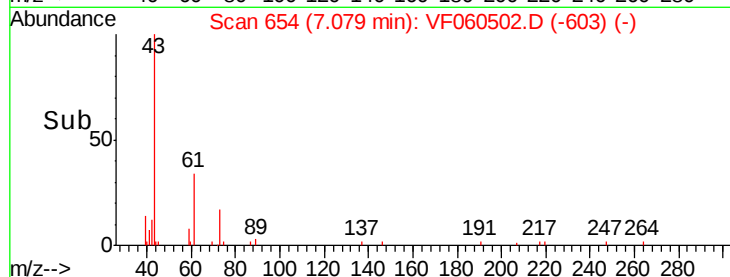
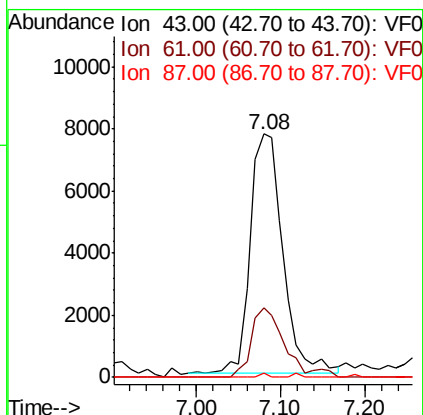
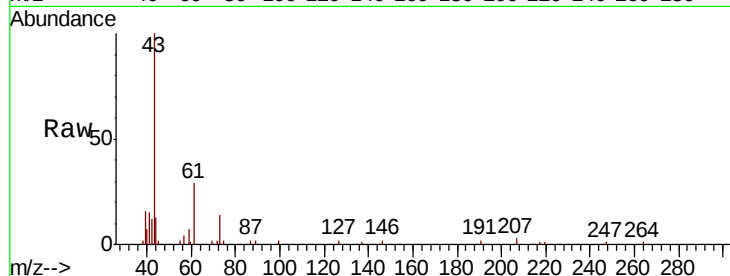
Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	43	Resp:	20816
Ion	Ratio	Lower	Upper
43	100		
61	28.8	21.6	32.4
87	1.5	0.6	0.8#



#44

Trichloroethene

Concen: 10.807 ug/l

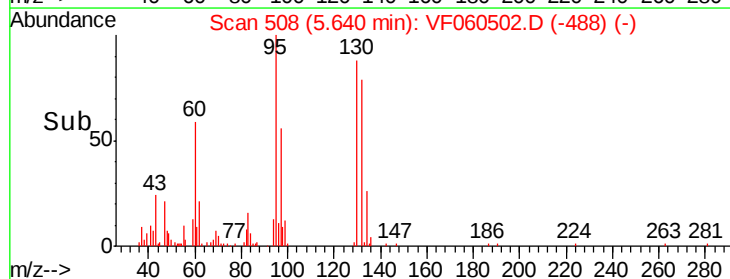
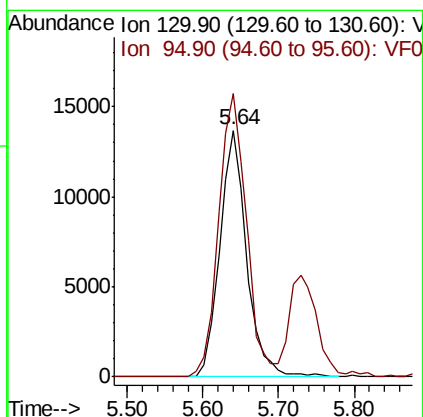
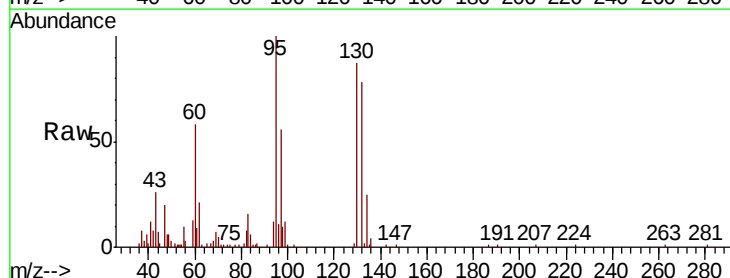
RT: 5.64 min Scan# 508

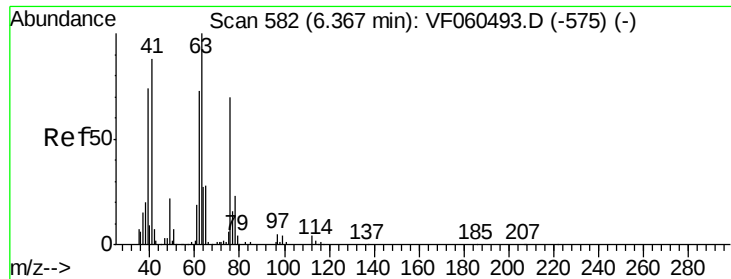
Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	130	Resp:	33574
Ion	Ratio	Lower	Upper
130	100		
95	114.8	0.0	216.0





#45

1,2-Dichloropropane

Concen: 10.904 ug/l

RT: 6.37 min Scan# 582

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

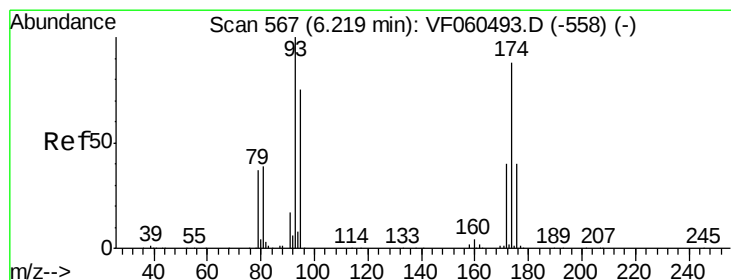
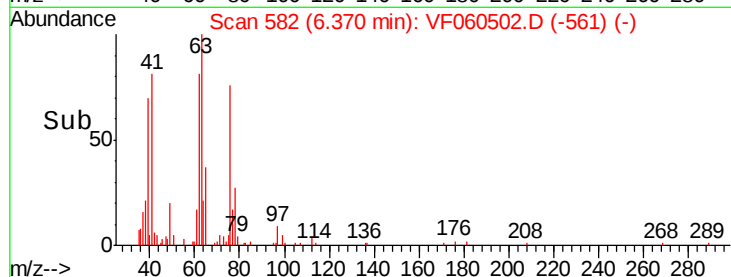
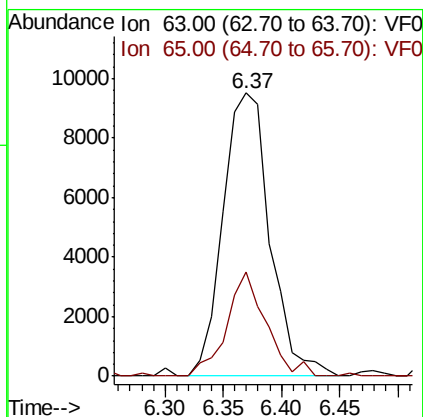
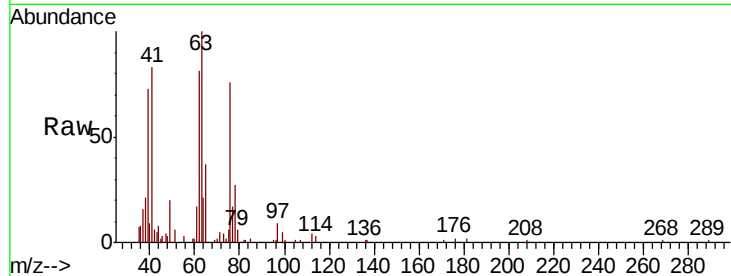
LOQ-SOIL-02-QT4-2018

Tgt Ion: 63 Resp: 26619

Ion Ratio Lower Upper

63 100

65 36.8 22.2 33.2#



#46

Dibromomethane

Concen: 10.148 ug/l

RT: 6.22 min Scan# 567

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

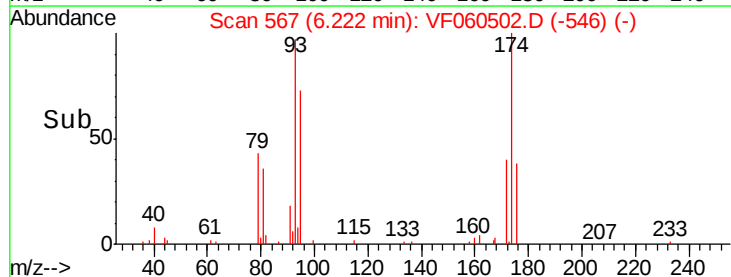
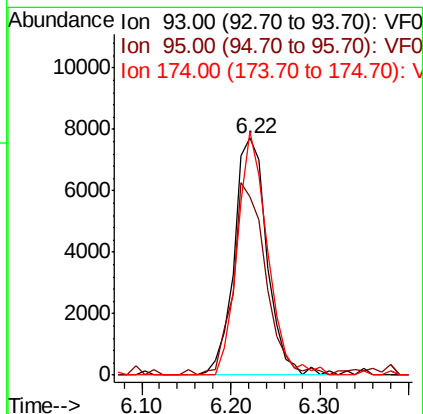
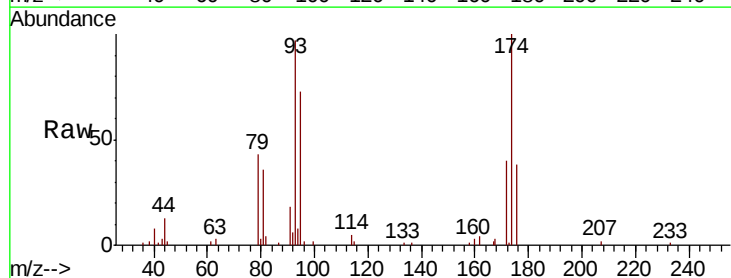
Tgt Ion: 93 Resp: 19873

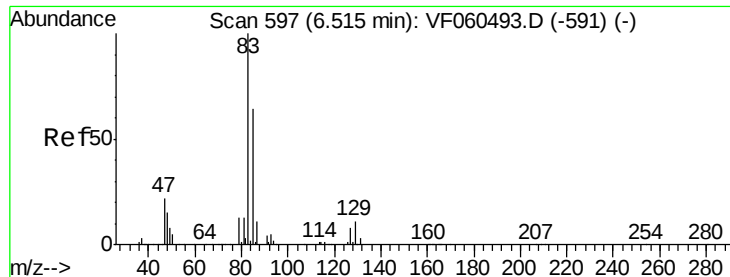
Ion Ratio Lower Upper

93 100

95 75.3 60.0 90.0

174 102.9 71.0 106.6





#47

Bromodichloromethane

Concen: 10.859 ug/l

RT: 6.52 min Scan# 597

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

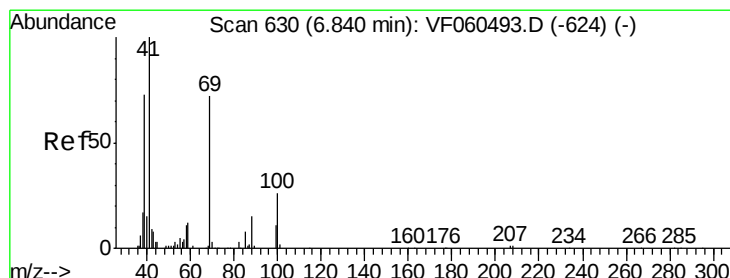
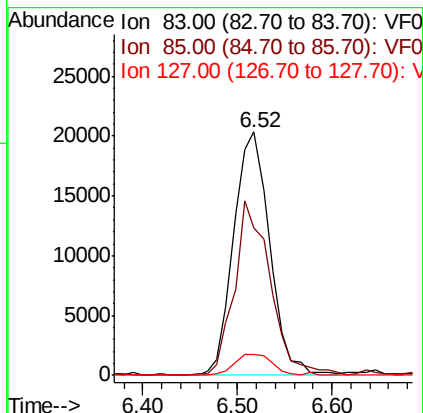
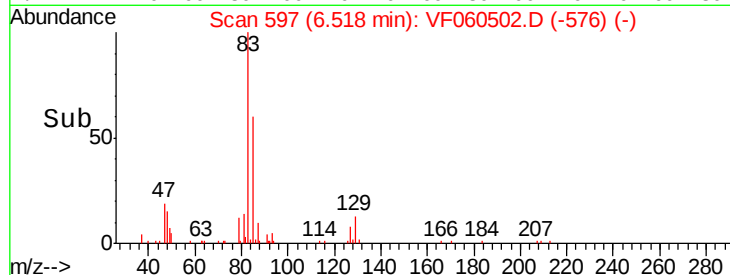
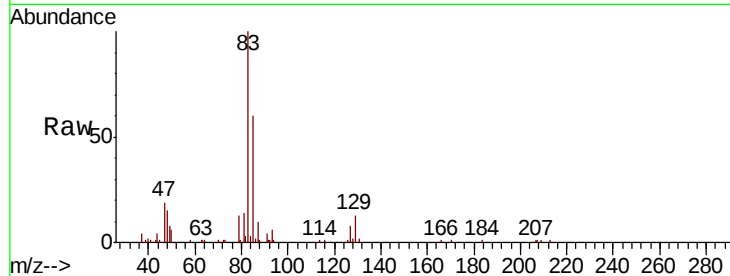
Tgt Ion: 83 Resp: 53708

Ion Ratio Lower Upper

83 100

85 60.5 51.2 76.8

127 8.4 6.5 9.7



#48

Methyl methacrylate

Concen: 11.115 ug/l

RT: 6.84 min Scan# 630

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

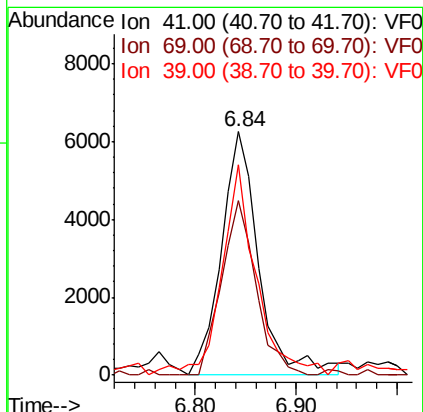
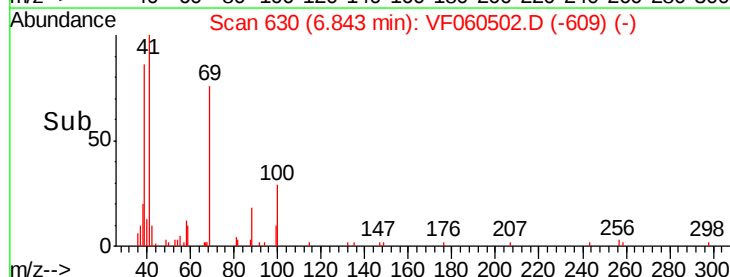
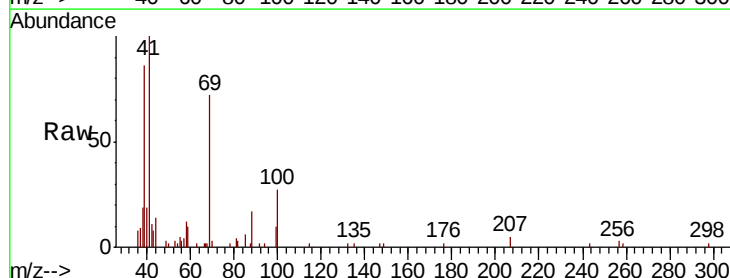
Tgt Ion: 41 Resp: 16100

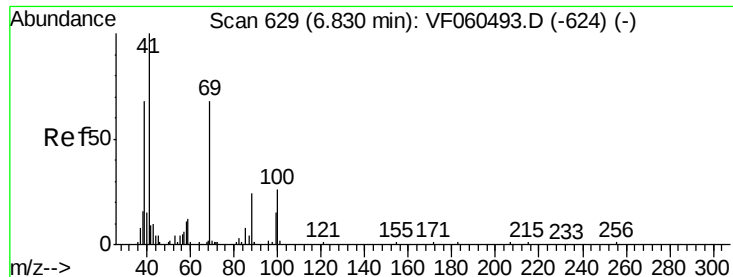
Ion Ratio Lower Upper

41 100

69 71.6 57.8 86.8

39 86.3 59.1 88.7

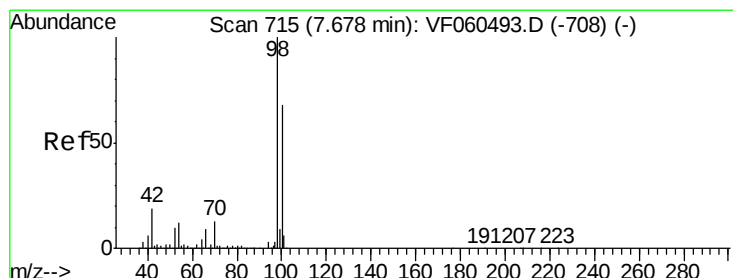
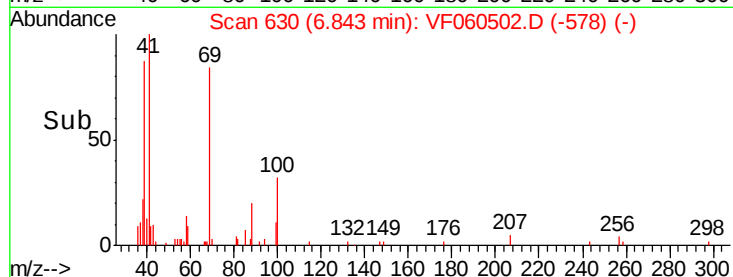
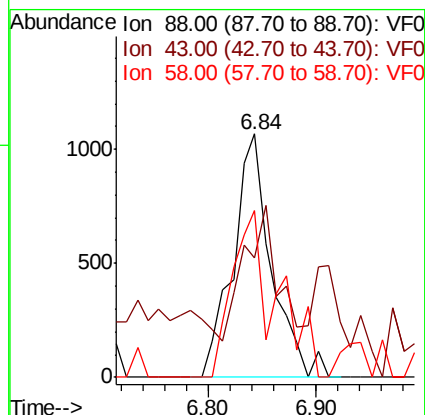
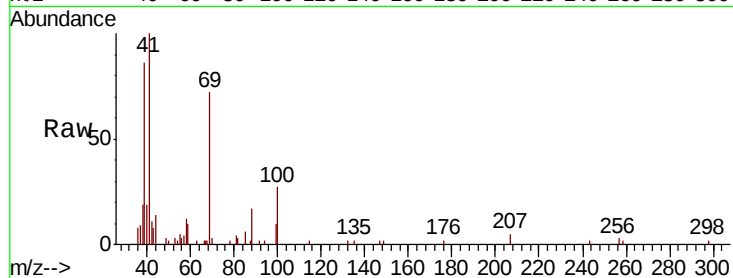




#49
1,4-Dioxane
Concen: 167.580 ug/l
RT: 6.84 min Scan# 630
Delta R.T. 0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

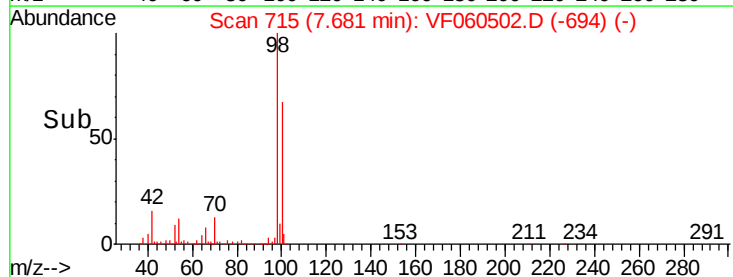
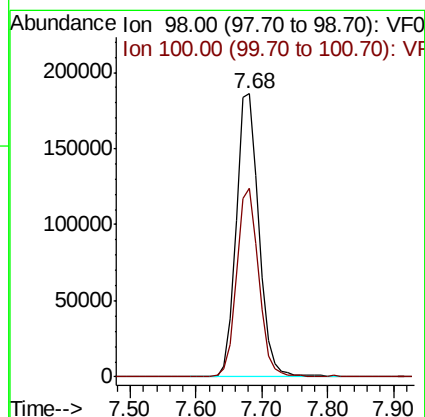
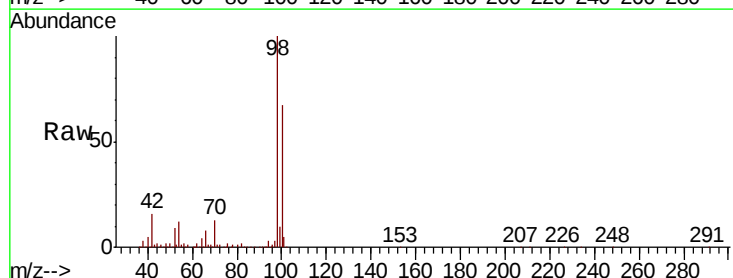
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

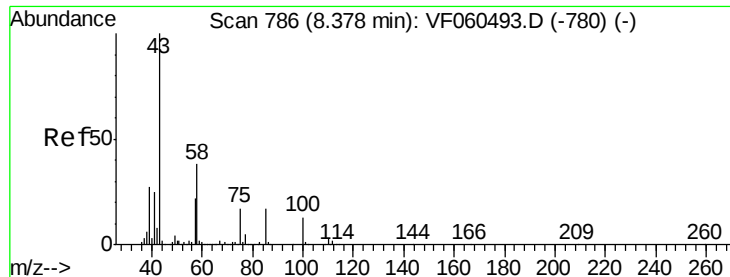
Tgt Ion: 88 Resp: 2636
Ion Ratio Lower Upper
88 100
43 49.0 40.2 60.2
58 68.4 36.3 54.5#



#50
Toluene-d8
Concen: 48.930 ug/l
RT: 7.68 min Scan# 715
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 98 Resp: 452068
Ion Ratio Lower Upper
98 100
100 66.7 54.4 81.6





#51

4-Methyl-2-Pentanone

Concen: 54.405 ug/l

RT: 8.38 min Scan# 786

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

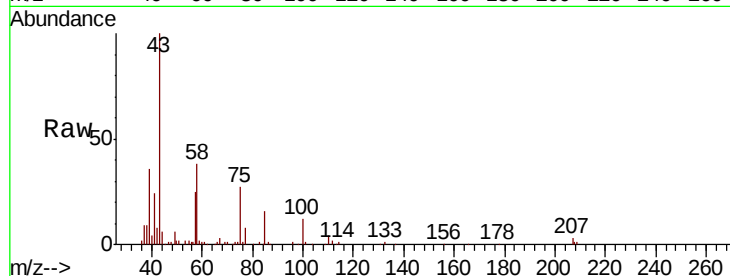
LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 81155

Ion Ratio Lower Upper

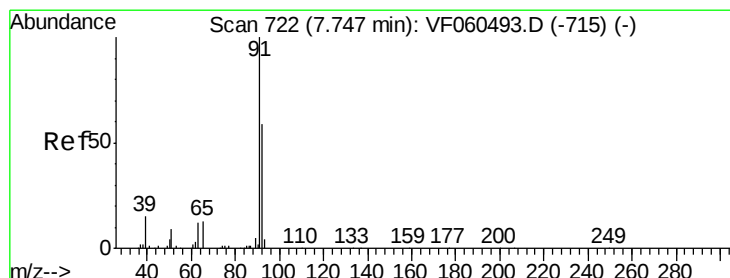
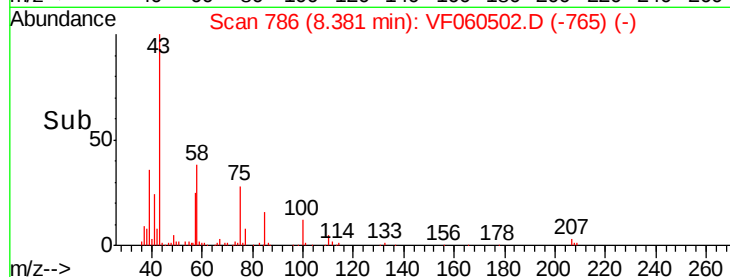
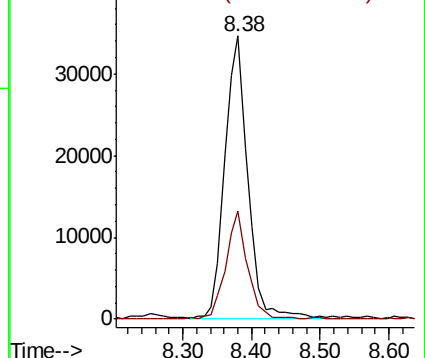
43 100

58 38.0 30.4 45.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 9.703 ug/l

RT: 7.75 min Scan# 722

Delta R.T. 0.00 min

Lab File: VF060502.D

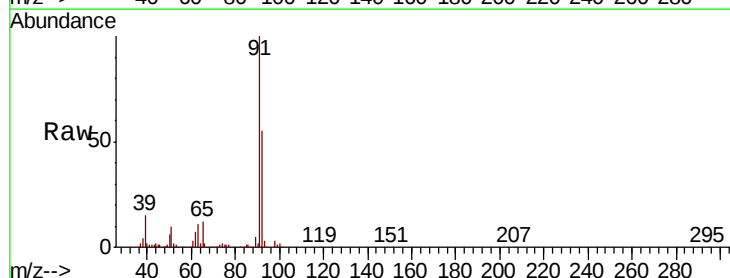
Acq: 9 Oct 2018 21:29

Tgt Ion: 92 Resp: 60942

Ion Ratio Lower Upper

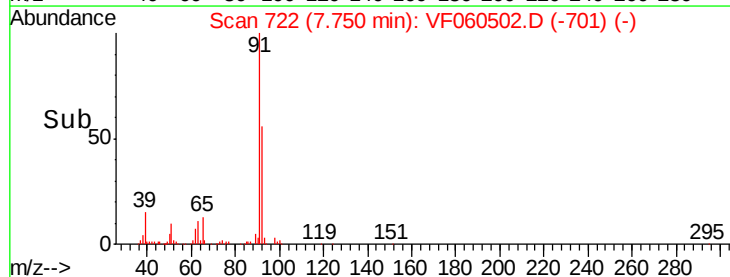
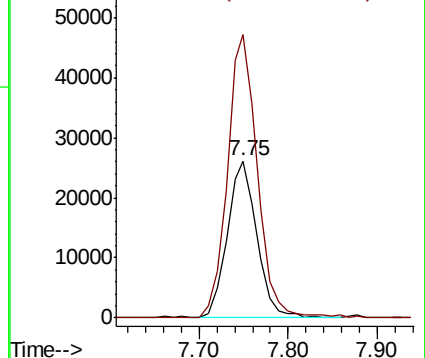
92 100

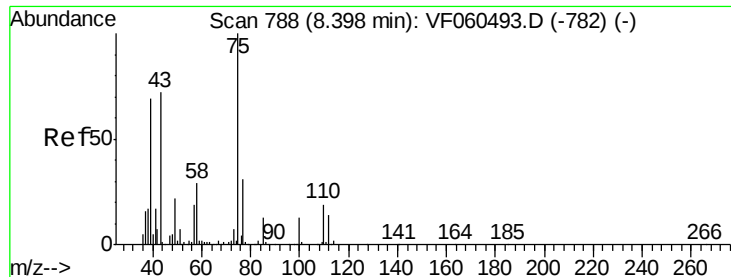
91 180.4 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

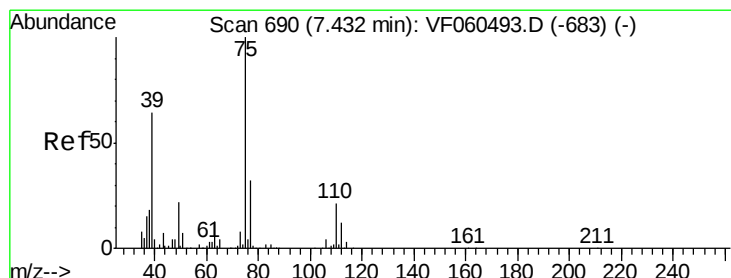
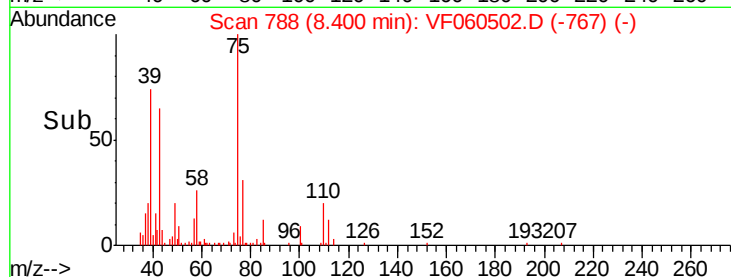
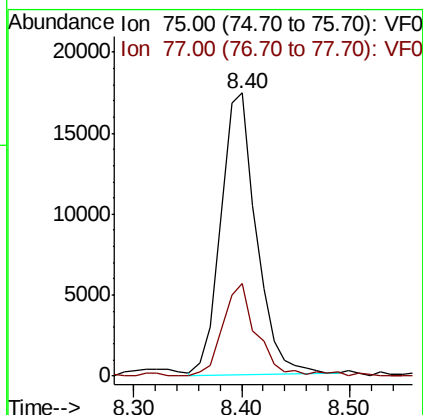
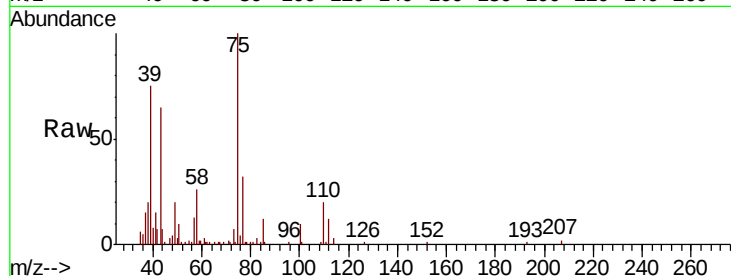




#53
t-1,3-Dichloropropene
Concen: 10.347 ug/l
RT: 8.40 min Scan# 788
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

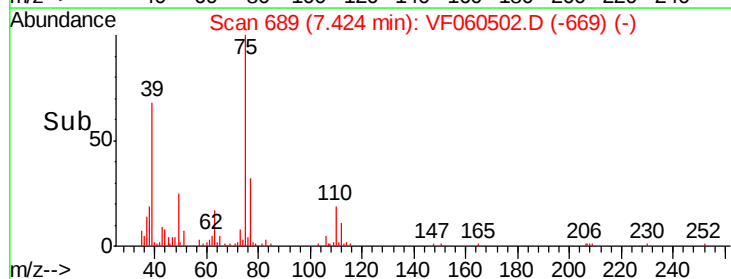
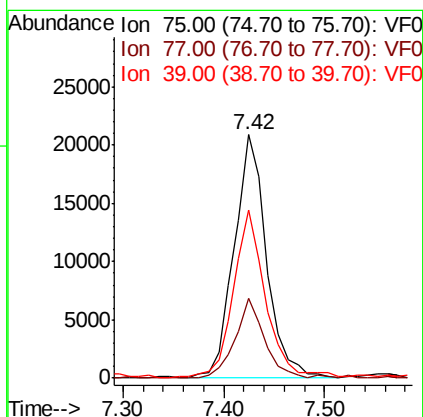
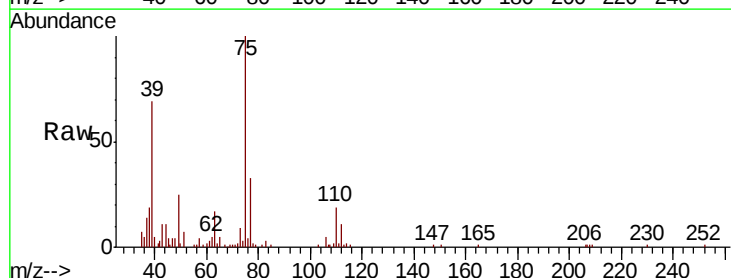
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

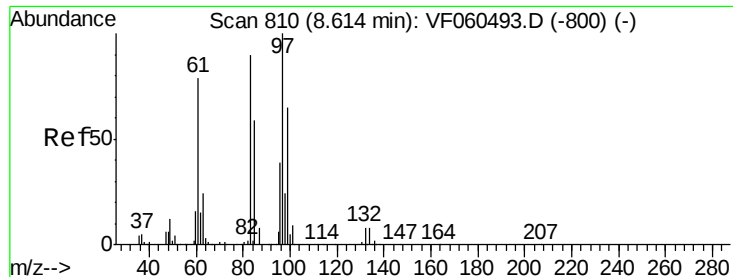
Tgt Ion: 75 Resp: 39743
Ion Ratio Lower Upper
75 100
77 32.8 25.2 37.8



#54
cis-1,3-Dichloropropene
Concen: 10.415 ug/l
RT: 7.42 min Scan# 689
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 75 Resp: 46594
Ion Ratio Lower Upper
75 100
77 33.0 26.0 39.0
39 69.2 51.2 76.8

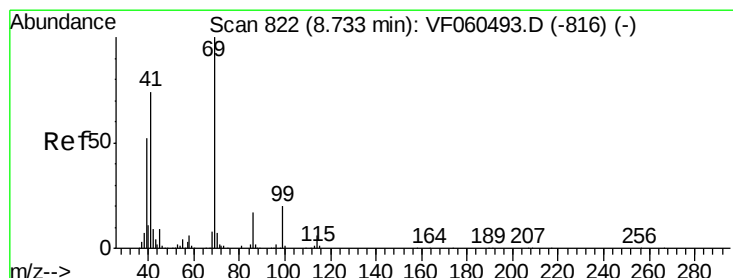
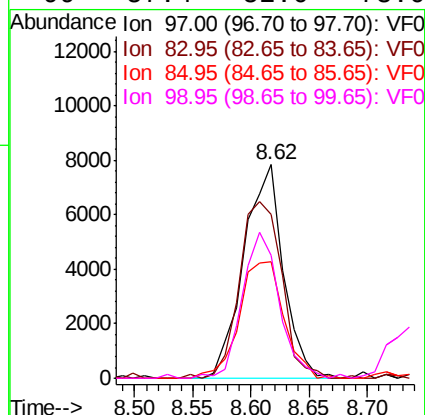
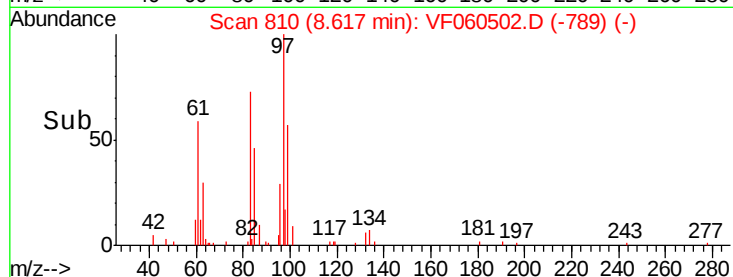
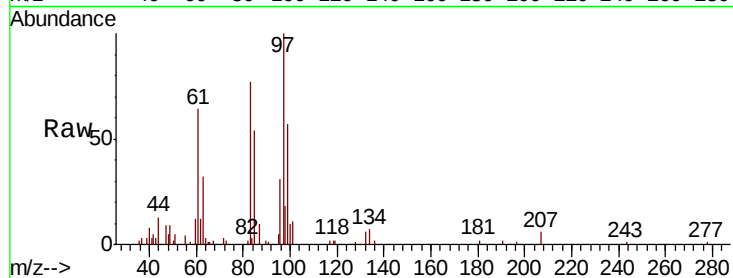




#55
 1,1,2-Trichloroethane
 Concen: 9.557 ug/l
 RT: 8.62 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

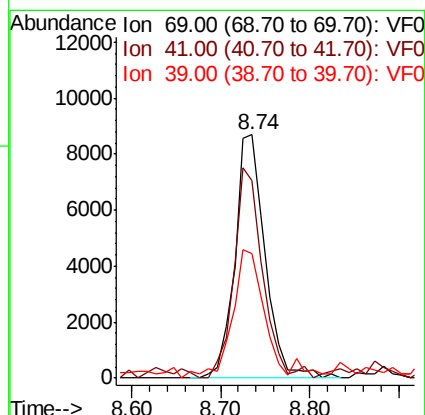
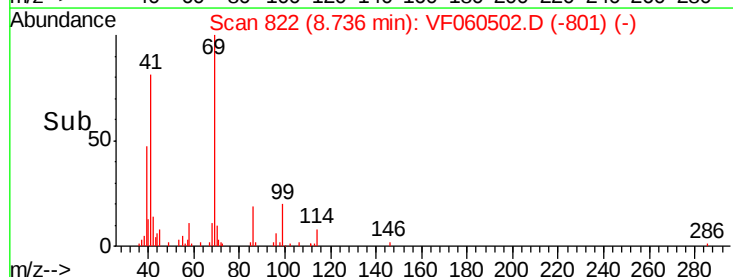
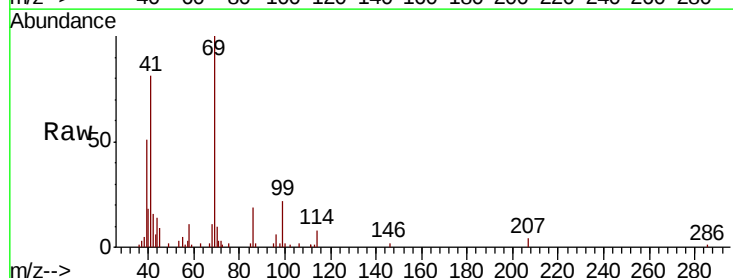
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

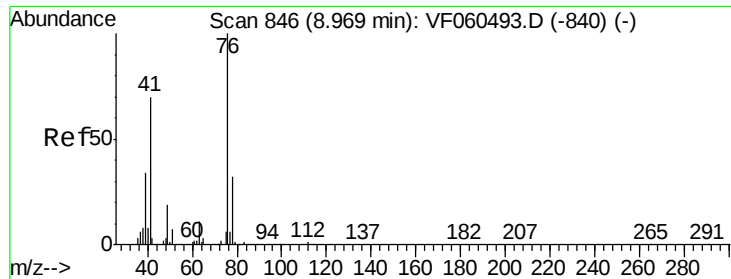
Tgt Ion:	97	Resp:	18448
Ion	Ratio	Lower	Upper
97	100		
83	76.5	71.9	107.9
85	54.4	47.8	71.8
99	57.4	52.0	78.0



#56
 Ethyl methacrylate
 Concen: 9.221 ug/l
 RT: 8.74 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion:	69	Resp:	20594
Ion	Ratio	Lower	Upper
69	100		
41	81.0	59.3	88.9
39	51.1	41.8	62.6





#57

1,3-Dichloropropane

Concen: 10.149 ug/l

RT: 8.97 min Scan# 846

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

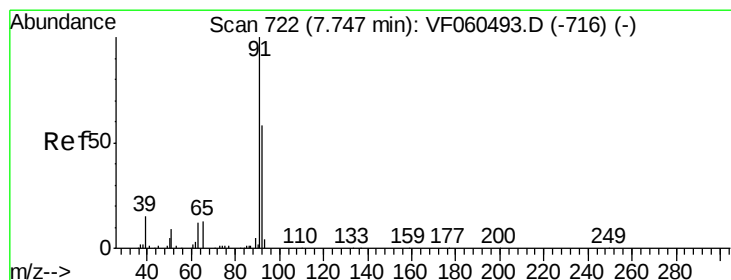
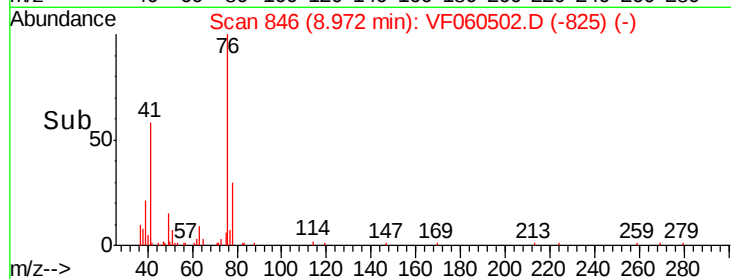
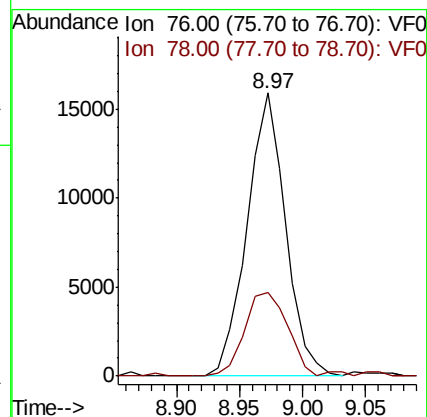
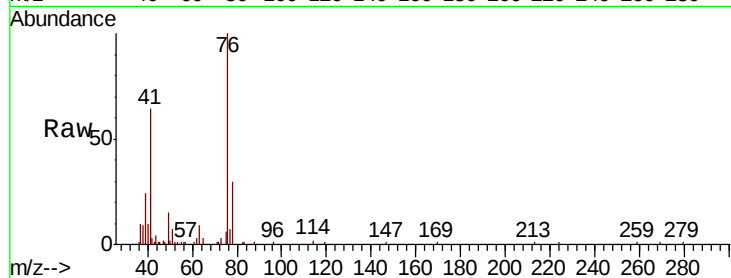
LOQ-SOIL-02-QT4-2018

Tgt Ion: 76 Resp: 33734

Ion Ratio Lower Upper

76 100

78 29.5 25.3 37.9



#58

2-Chloroethyl Vinyl ether

Concen: 52.495 ug/l

RT: 7.75 min Scan# 722

Delta R.T. 0.00 min

Lab File: VF060502.D

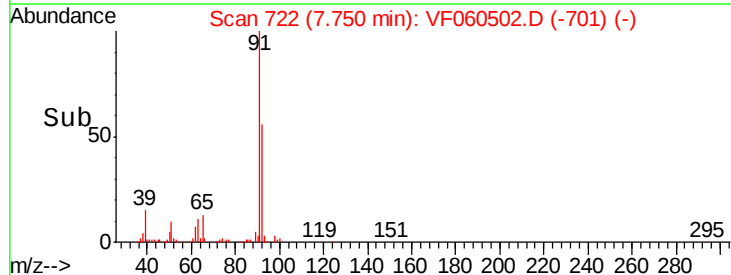
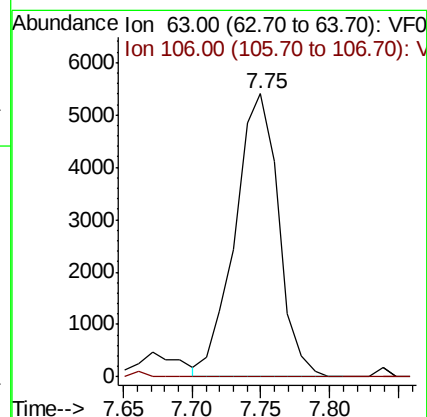
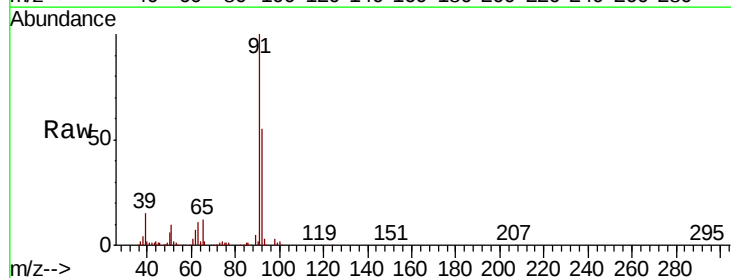
Acq: 9 Oct 2018 21:29

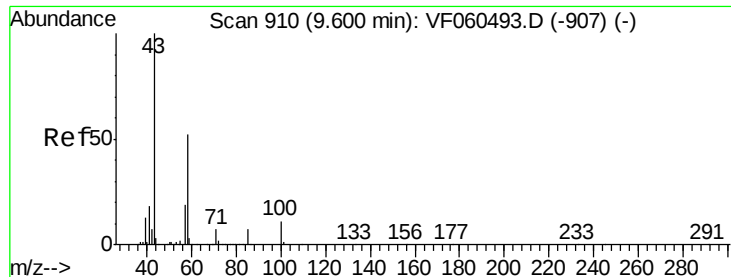
Tgt Ion: 63 Resp: 11914

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

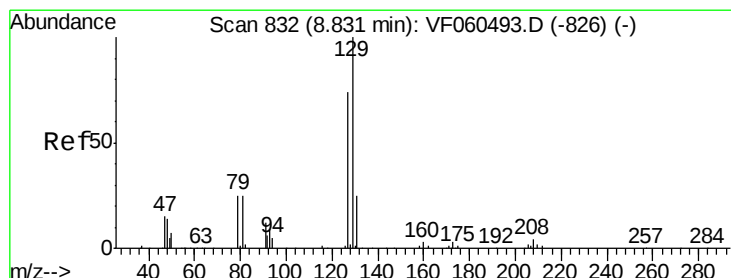
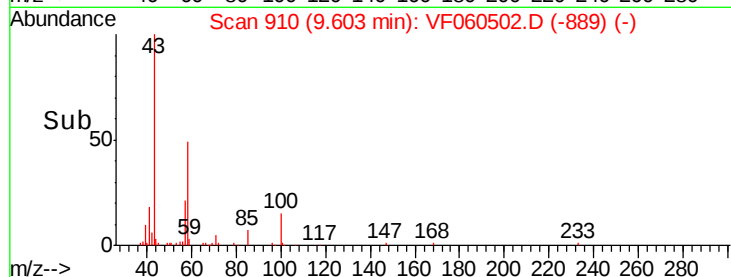
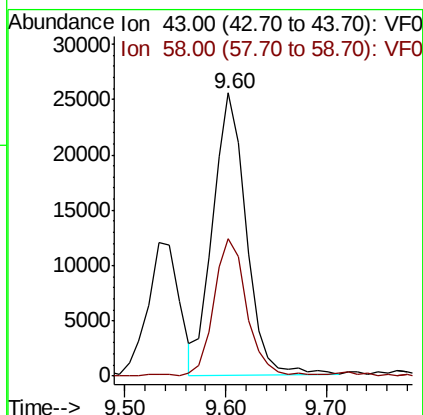
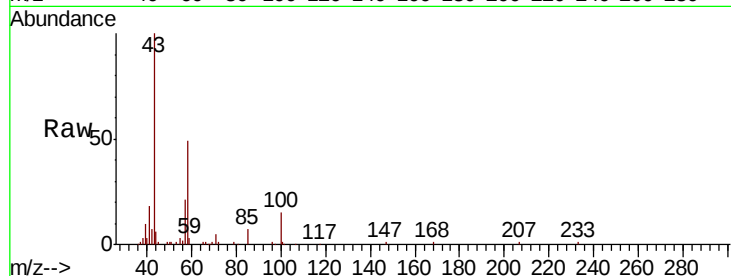




#59
2-Hexanone
Concen: 54.191 ug/l
RT: 9.60 min Scan# 910
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

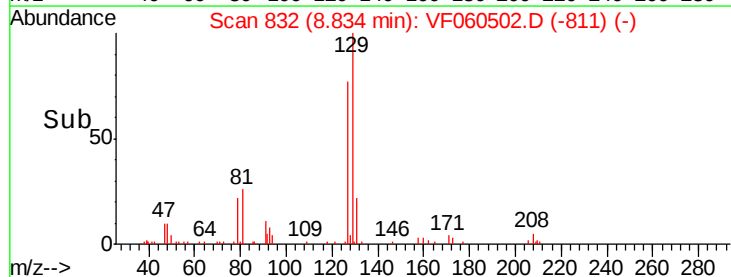
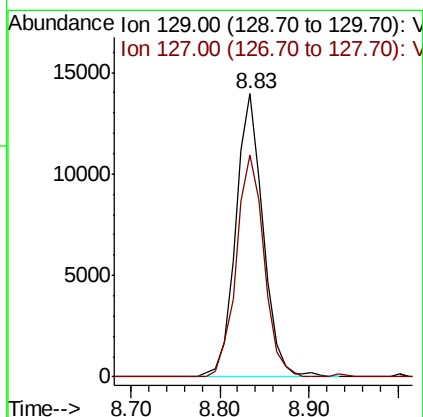
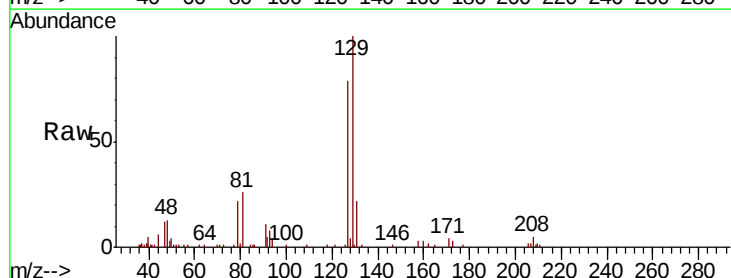
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

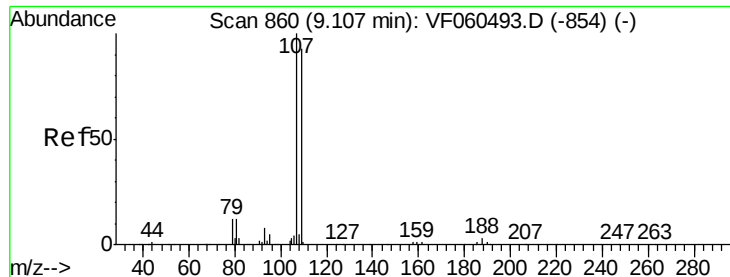
Tgt Ion: 43 Resp: 58472
Ion Ratio Lower Upper
43 100
58 48.7 24.2 72.6



#60
Dibromochloromethane
Concen: 9.830 ug/l
RT: 8.83 min Scan# 832
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 129 Resp: 29785
Ion Ratio Lower Upper
129 100
127 77.5 37.0 110.9





#61

1,2-Dibromoethane

Concen: 10.643 ug/l

RT: 9.11 min Scan# 860

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

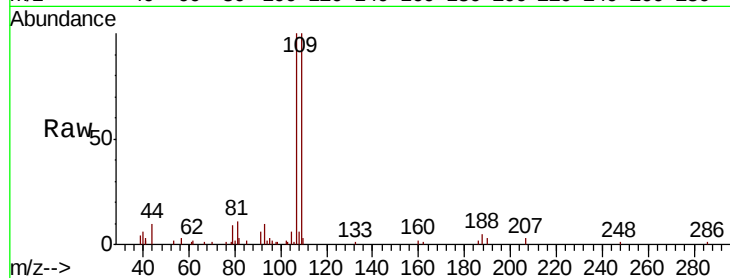
LOQ-SOIL-02-QT4-2018

Tgt Ion:107 Resp: 23214

Ion Ratio Lower Upper

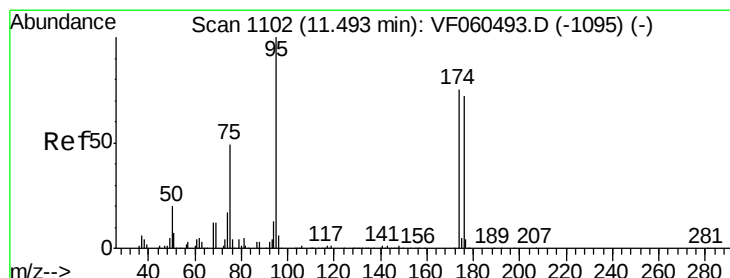
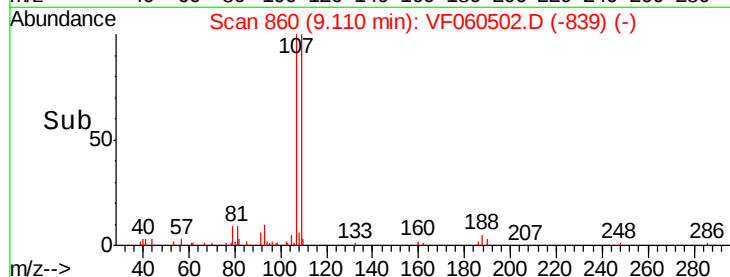
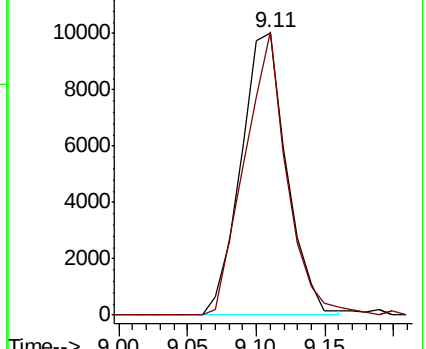
107 100

109 100.2 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.100 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

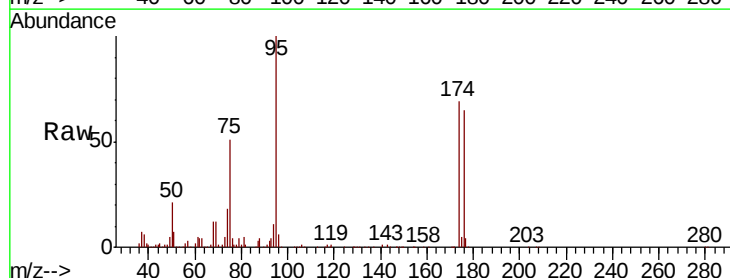
Tgt Ion: 95 Resp: 203086

Ion Ratio Lower Upper

95 100

174 68.8 0.0 150.4

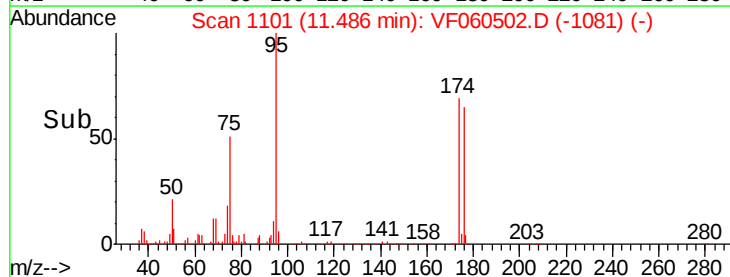
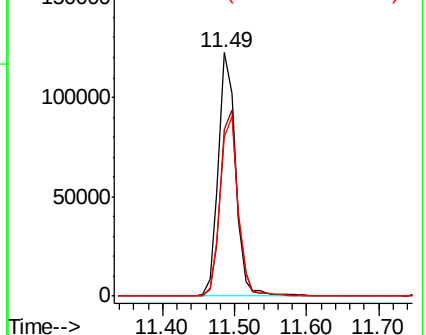
176 65.4 0.0 144.6

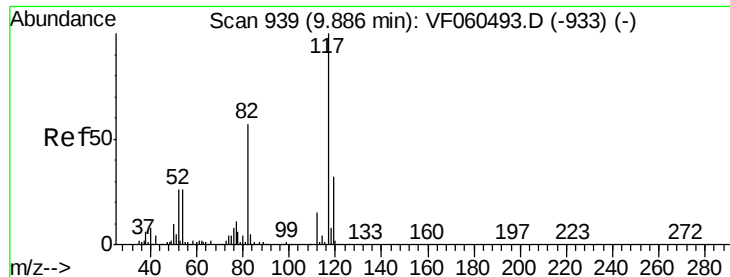


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

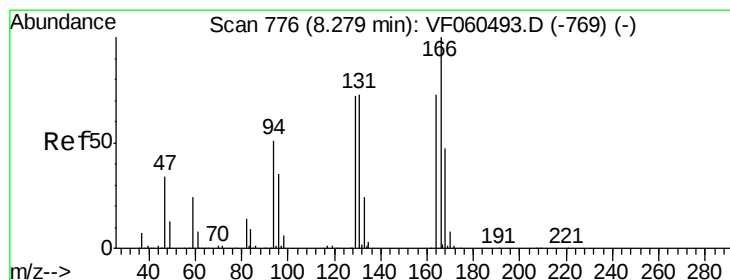
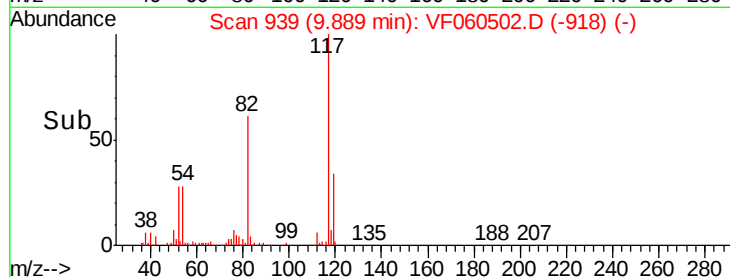
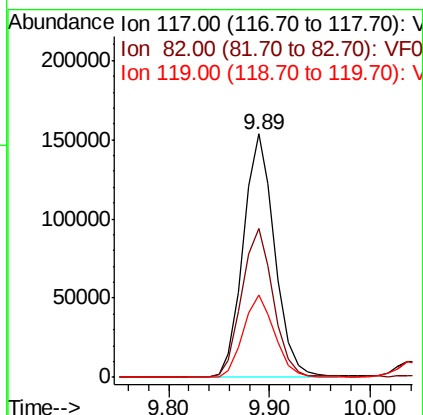
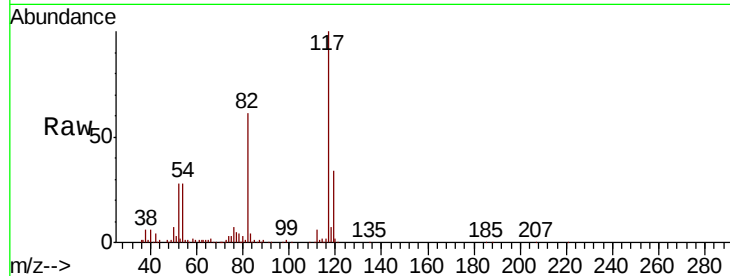




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 939
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

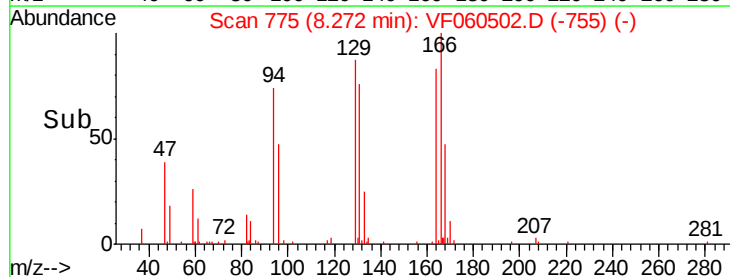
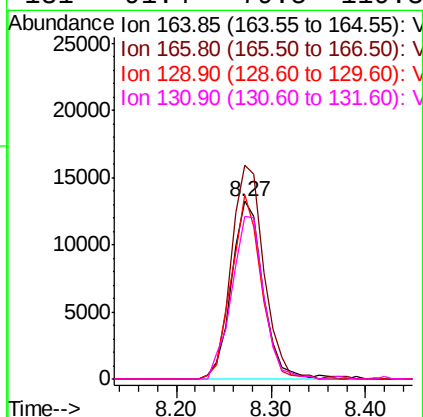
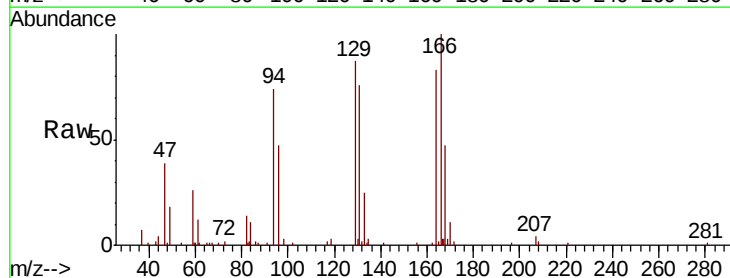
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

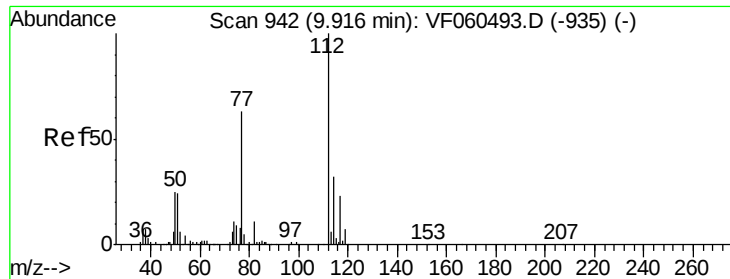
Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.3	45.6	68.4
119	33.7	25.3	37.9



#64
Tetrachloroethene
Concen: 11.527 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.2	109.4	164.0
129	104.1	78.9	118.3
131	91.4	79.5	119.3





#65

Chlorobenzene

Concen: 11.334 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

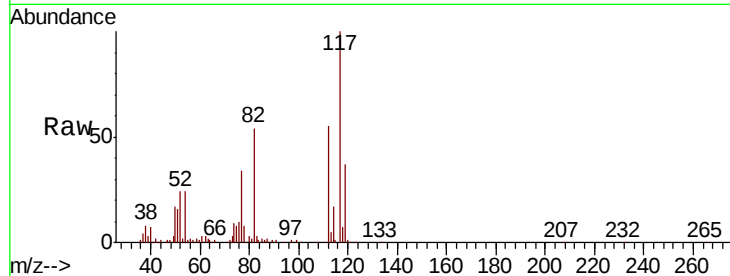
LOQ-SOIL-02-QT4-2018

Tgt Ion:112 Resp: 73532

Ion Ratio Lower Upper

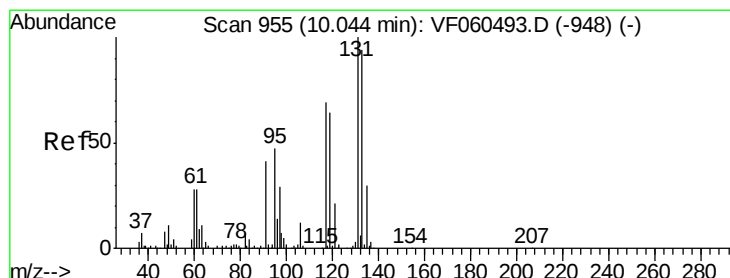
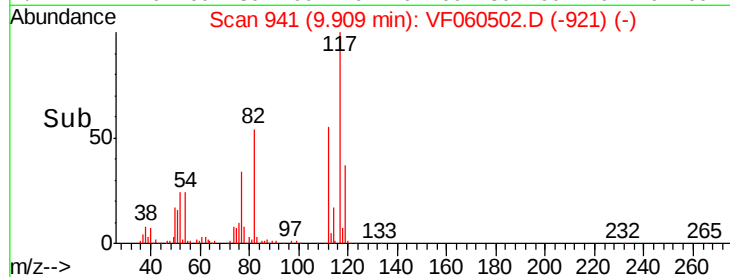
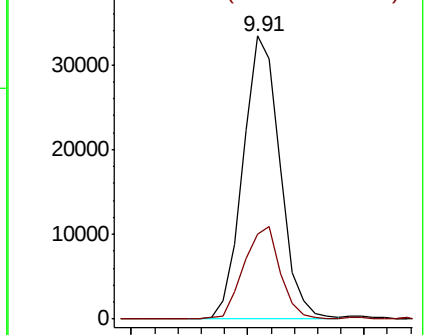
112 100

114 30.2 25.9 38.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 11.558 ug/l

RT: 10.04 min Scan# 954

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

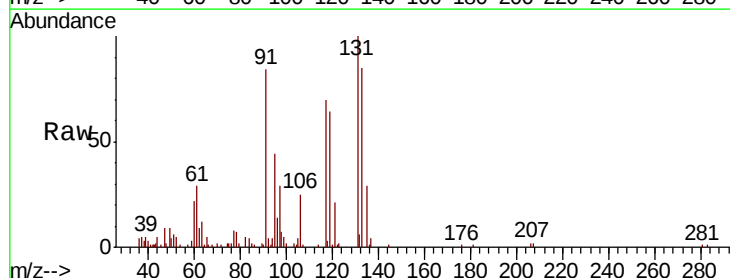
Tgt Ion:131 Resp: 33776

Ion Ratio Lower Upper

131 100

133 80.5 47.1 141.4

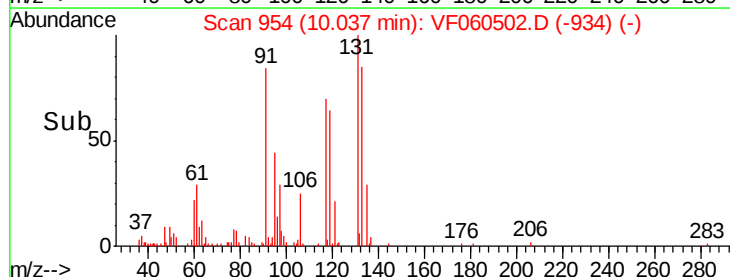
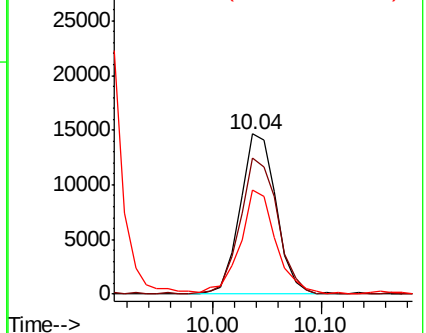
119 61.7 32.0 96.2

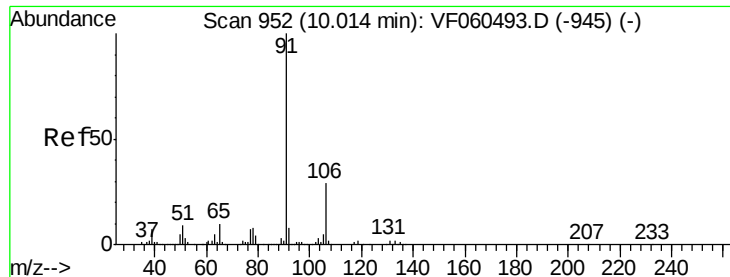


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 11.084 ug/l

RT: 10.01 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

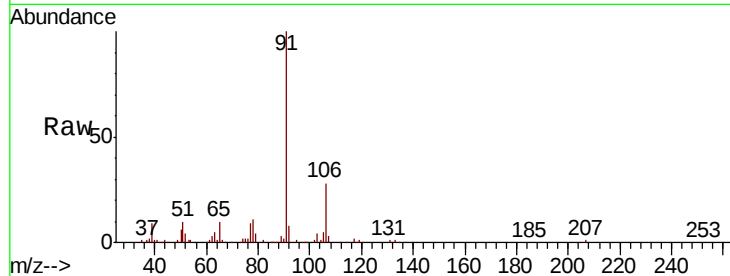
LOQ-SOIL-02-QT4-2018

Tgt Ion: 91 Resp: 135674

Ion Ratio Lower Upper

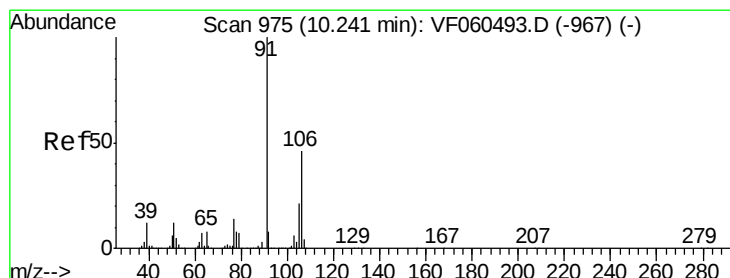
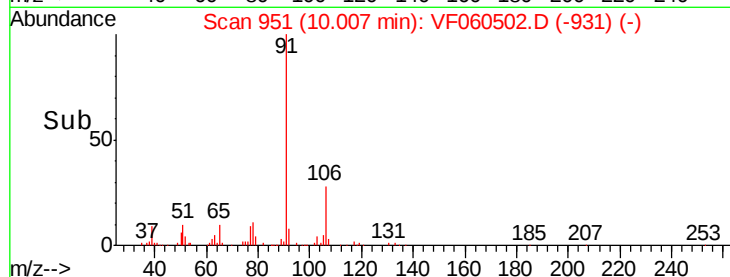
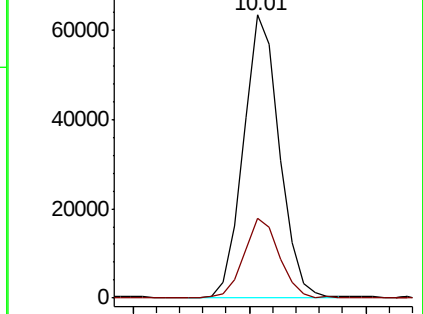
91 100

106 28.1 23.3 34.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 22.443 ug/l

RT: 10.24 min Scan# 975

Delta R.T. 0.00 min

Lab File: VF060502.D

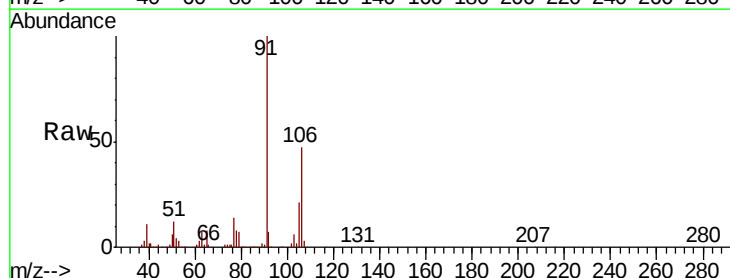
Acq: 9 Oct 2018 21:29

Tgt Ion: 106 Resp: 93775

Ion Ratio Lower Upper

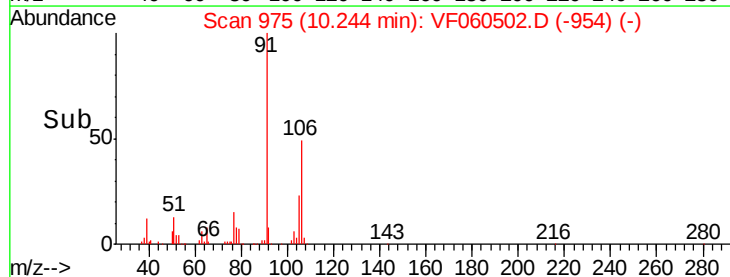
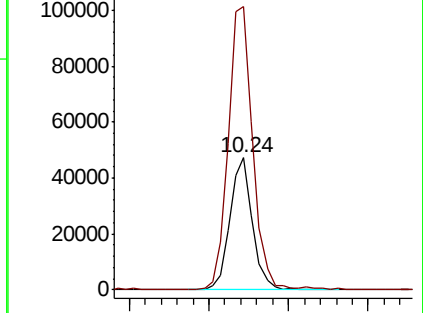
106 100

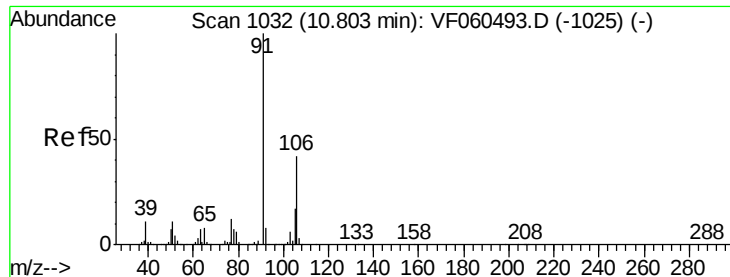
91 214.0 174.6 262.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

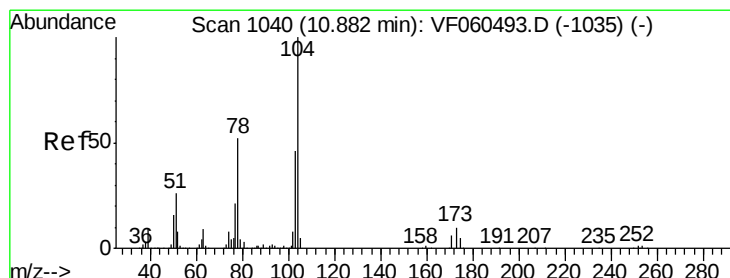
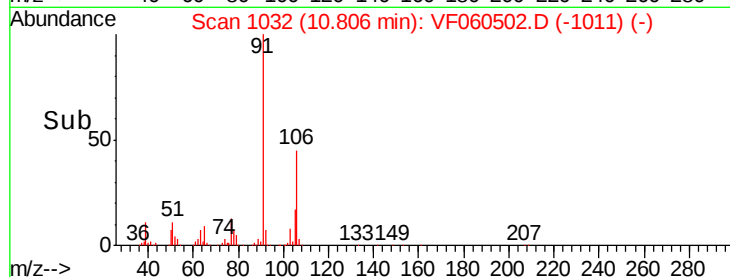
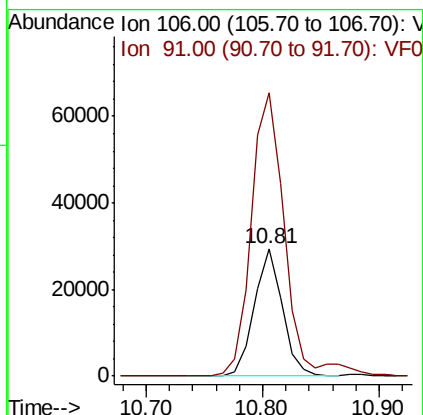
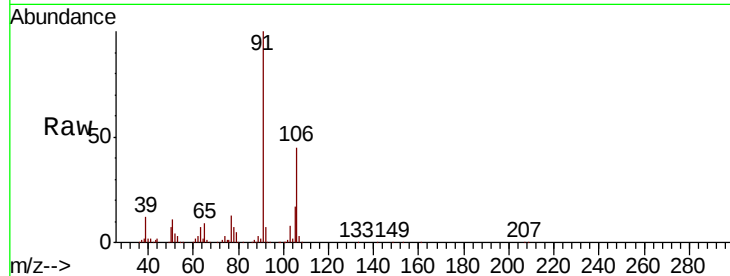




#69
o-Xylene
Concen: 10.890 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

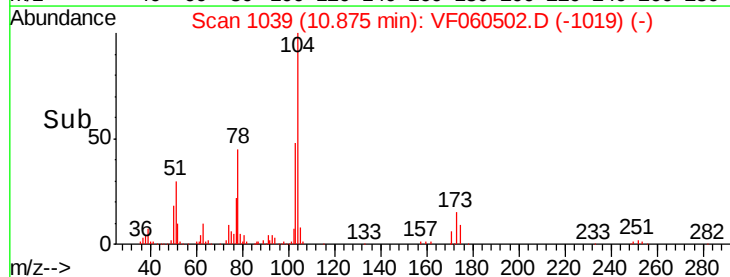
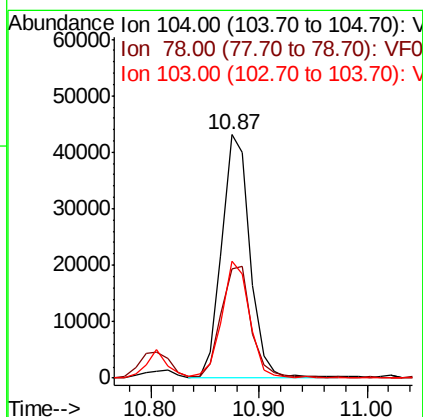
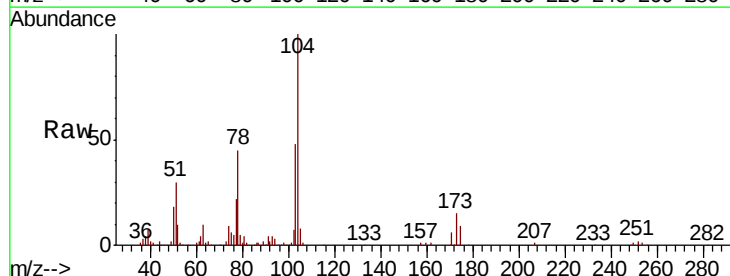
Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

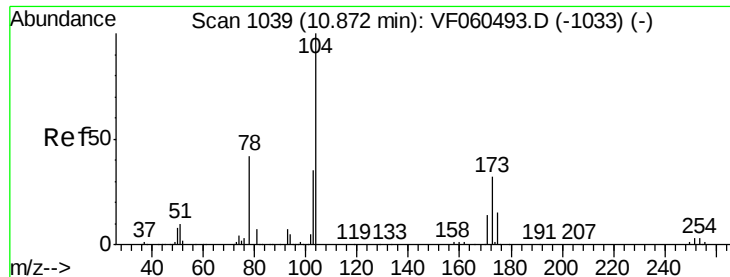
Tgt Ion:106 Resp: 49485
Ion Ratio Lower Upper
106 100
91 221.8 118.8 356.3



#70
Styrene
Concen: 12.013 ug/l
RT: 10.87 min Scan# 1039
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion:104 Resp: 78577
Ion Ratio Lower Upper
104 100
78 44.7 42.7 64.1
103 47.8 37.6 56.4





#71

Bromoform

Concen: 11.339 ug/l

RT: 10.86 min Scan# 1038

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

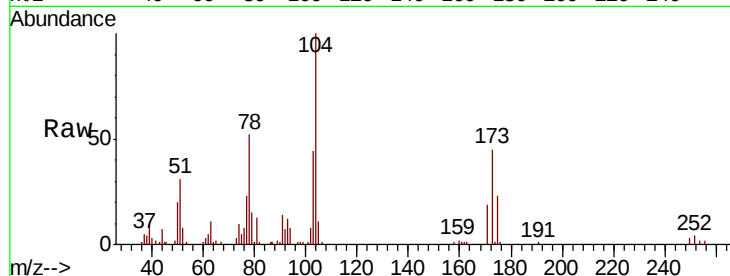
Tgt Ion:173 Resp: 16800

Ion Ratio Lower Upper

173 100

175 52.1 23.2 69.6

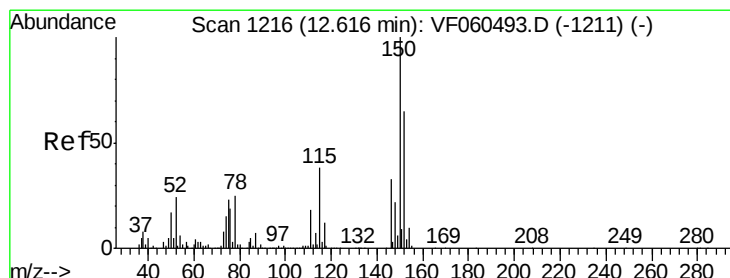
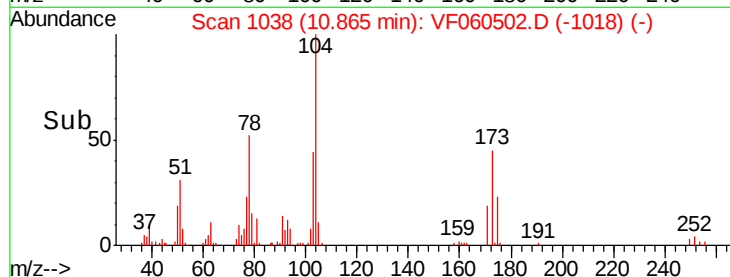
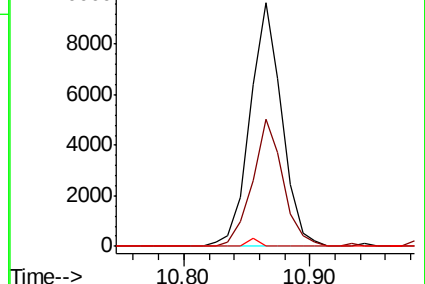
254 0.0 0.2 0.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

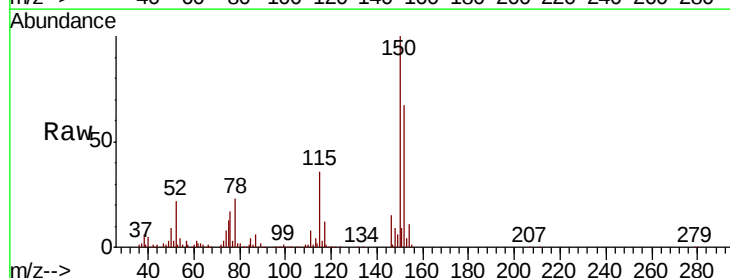
Tgt Ion:152 Resp: 201089

Ion Ratio Lower Upper

152 100

115 53.2 29.5 88.5

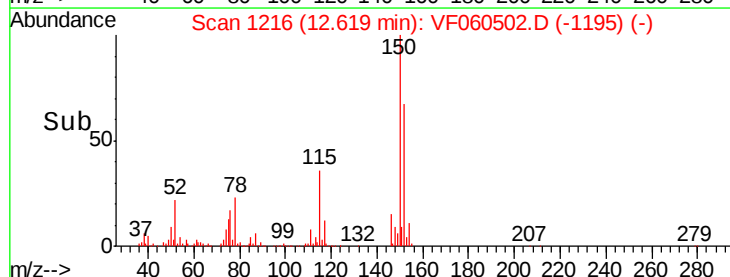
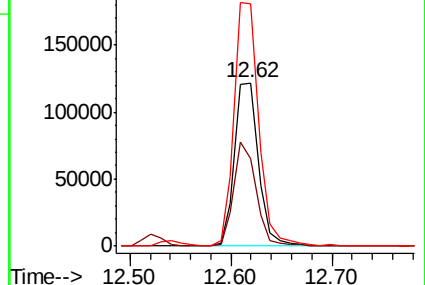
150 148.2 0.0 310.0

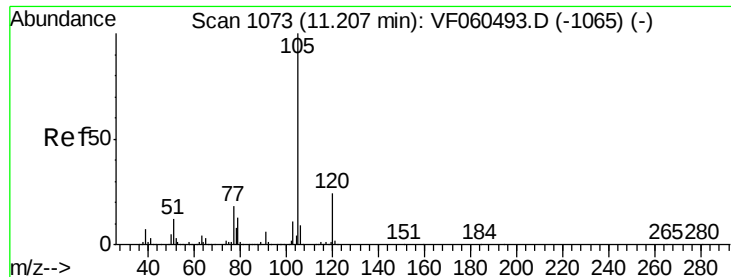


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 10.843 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

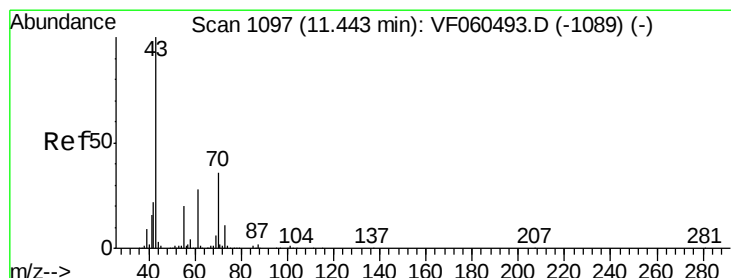
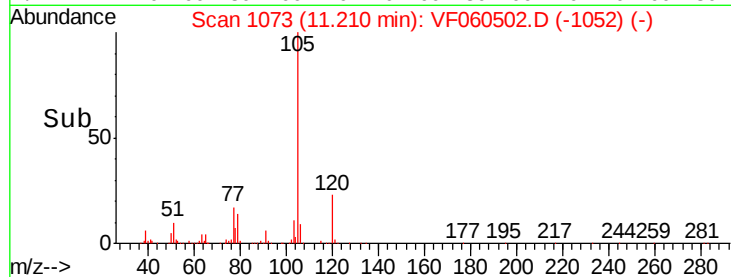
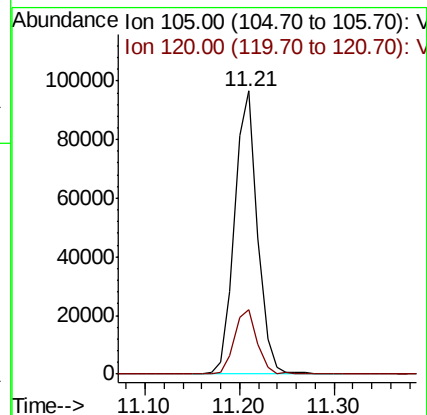
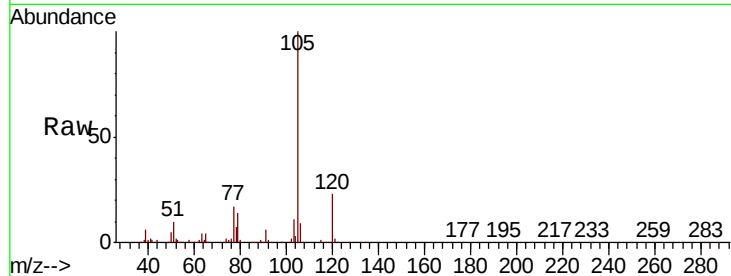
LOQ-SOIL-02-QT4-2018

Tgt Ion:105 Resp: 162077

Ion Ratio Lower Upper

105 100

120 22.6 11.9 35.9



#74

N-ethyl acetate

Concen: 10.871 ug/l

RT: 11.45 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion: 43 Resp: 35370

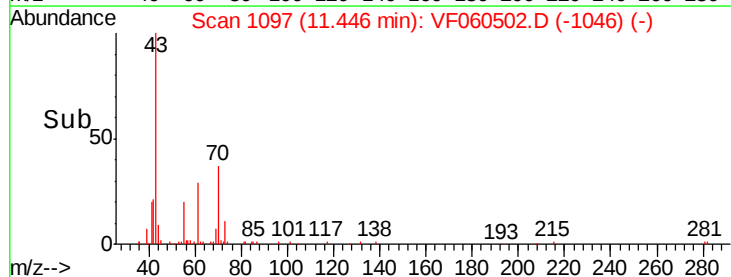
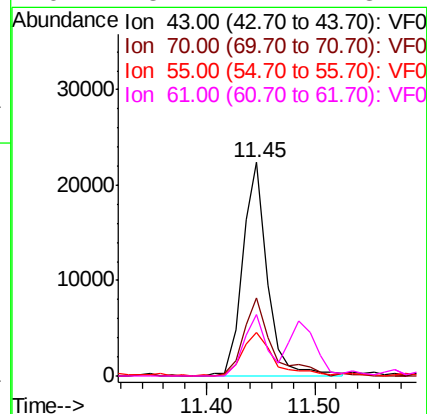
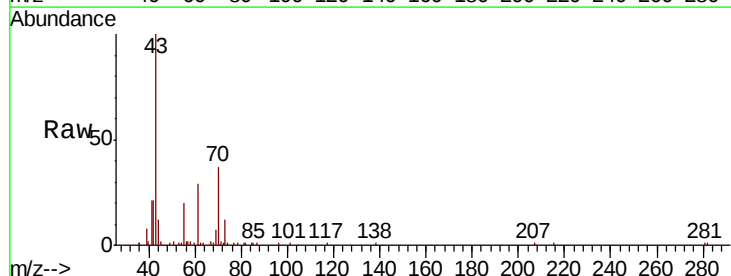
Ion Ratio Lower Upper

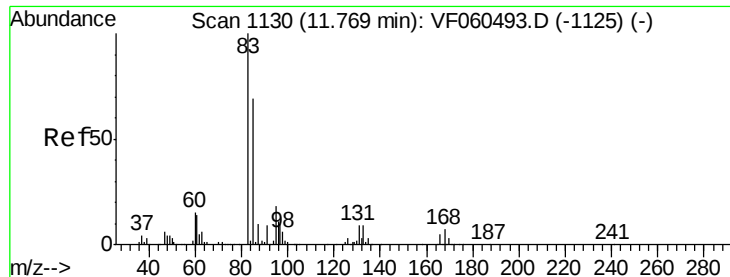
43 100

70 36.8 28.7 43.1

55 20.1 16.1 24.1

61 28.7 22.7 34.1





#75

1,1,2,2-Tetrachloroethane

Concen: 10.748 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

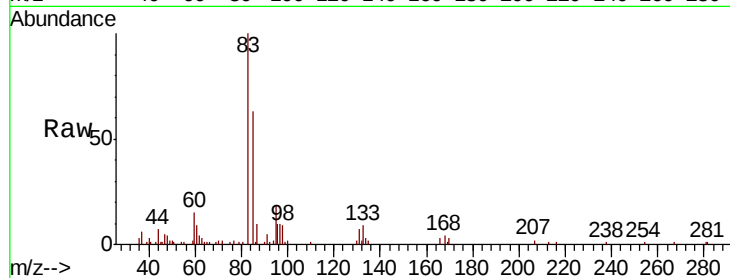
Tgt Ion: 83 Resp: 27002

Ion Ratio Lower Upper

83 100

131 7.2 4.5 13.4

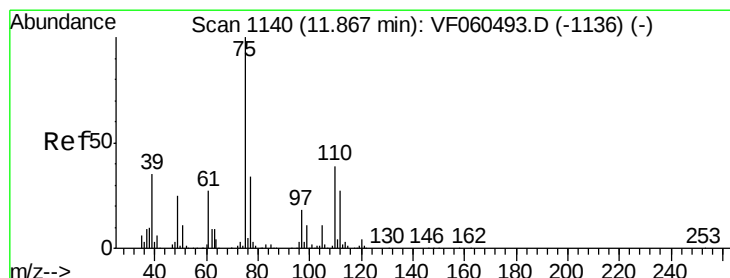
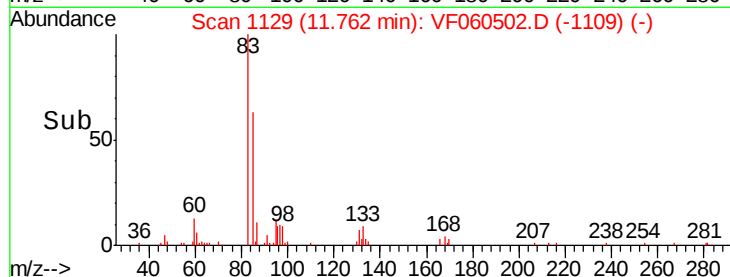
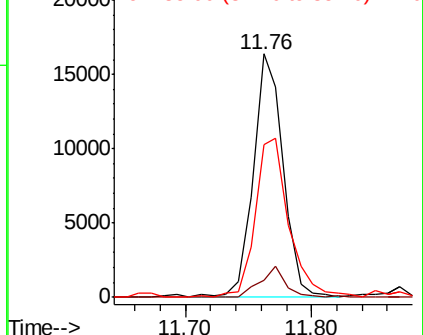
85 62.6 34.8 104.4



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 11.086 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060502.D

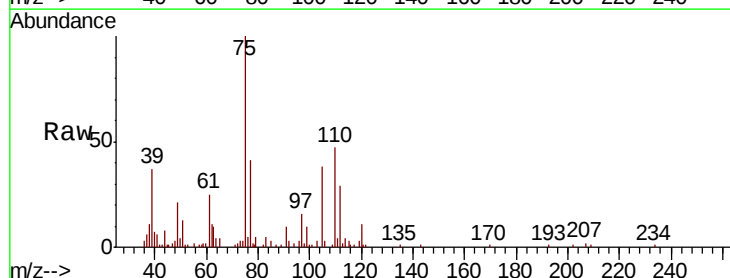
Acq: 9 Oct 2018 21:29

Tgt Ion: 75 Resp: 21532

Ion Ratio Lower Upper

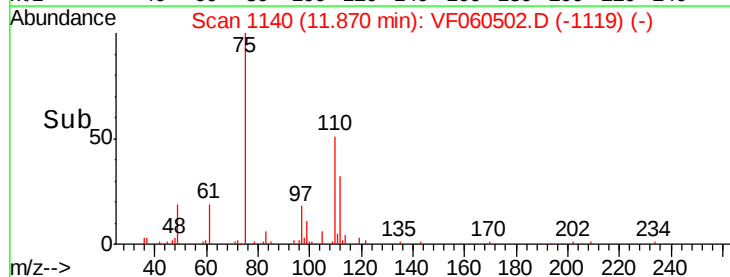
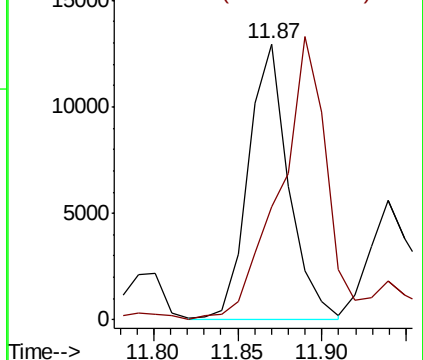
75 100

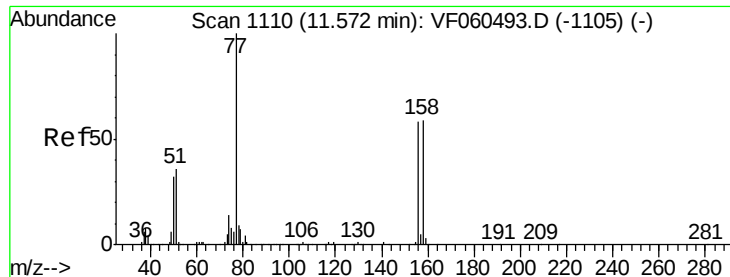
77 41.3 17.4 52.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 10.404 ug/l

RT: 11.57 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

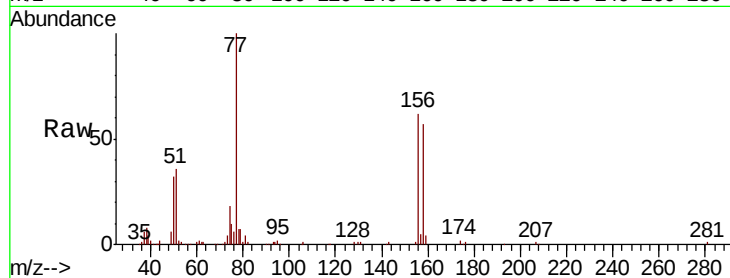
Tgt Ion:156 Resp: 34561

Ion Ratio Lower Upper

156 100

77 160.1 86.3 258.8

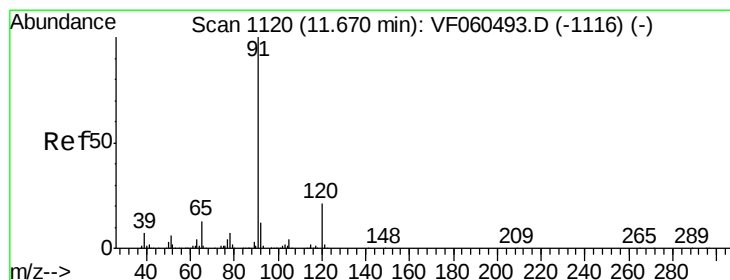
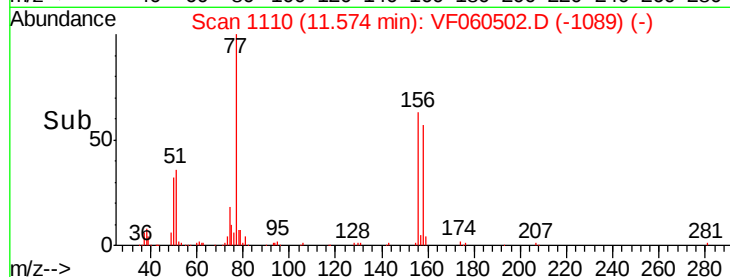
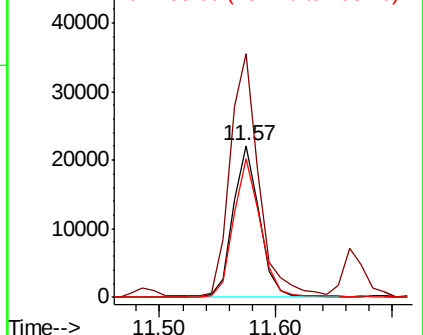
158 91.3 51.1 153.3



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 11.236 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VF060502.D

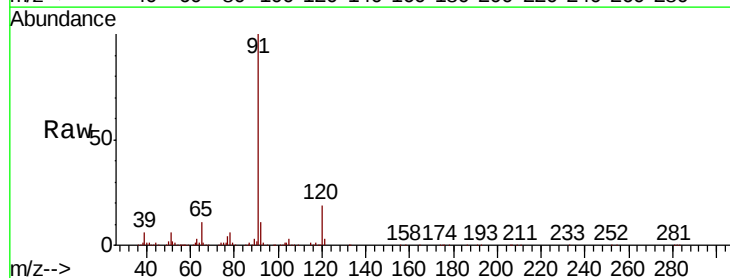
Acq: 9 Oct 2018 21:29

Tgt Ion: 91 Resp: 200028

Ion Ratio Lower Upper

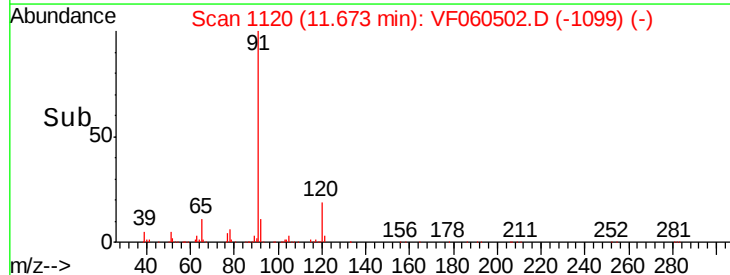
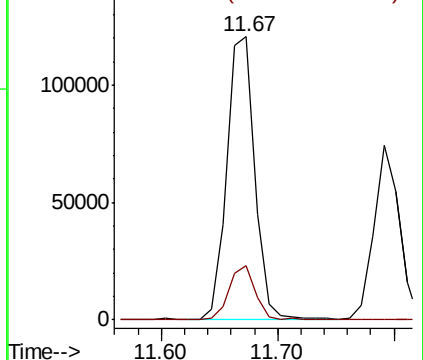
91 100

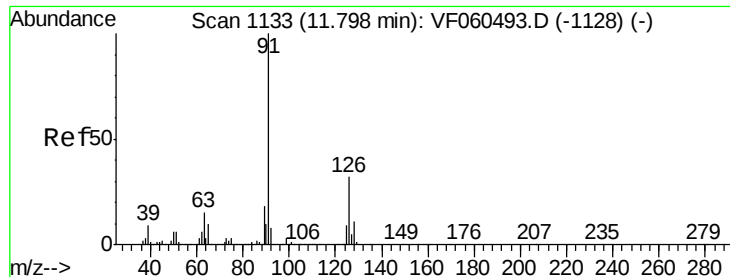
120 19.0 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 10.706 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

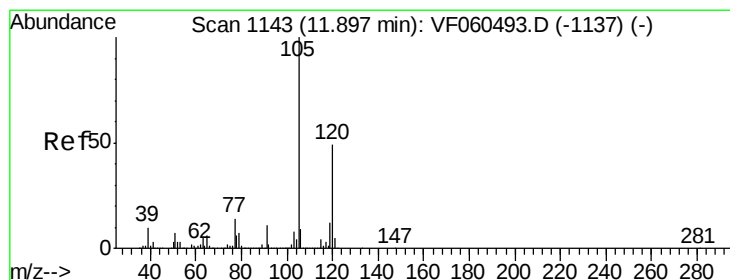
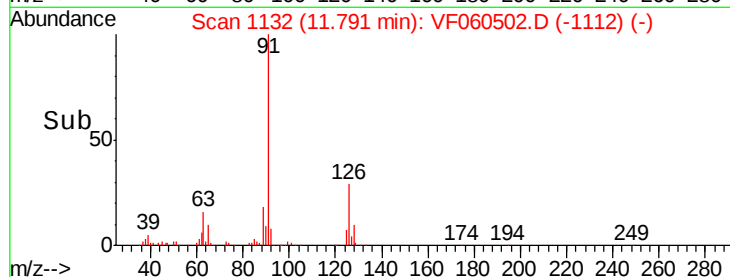
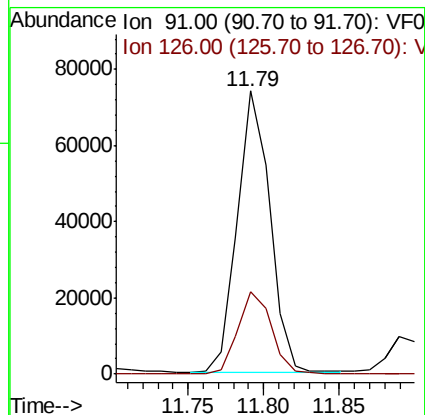
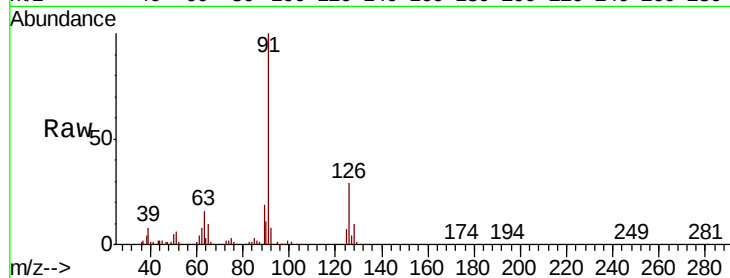
LOQ-SOIL-02-QT4-2018

Tgt Ion: 91 Resp: 111582

Ion Ratio Lower Upper

91 100

126 29.3 16.1 48.3



#80

1,3,5-Trimethylbenzene

Concen: 10.804 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF060502.D

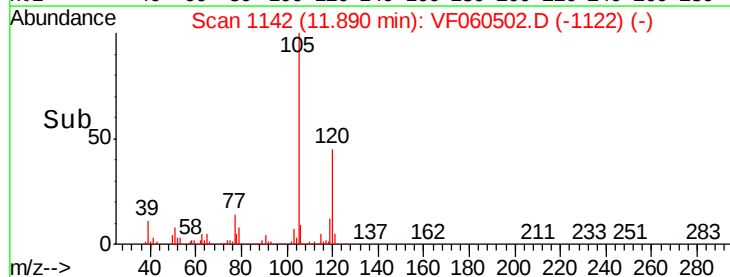
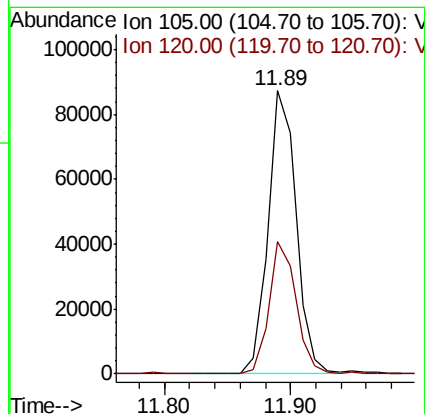
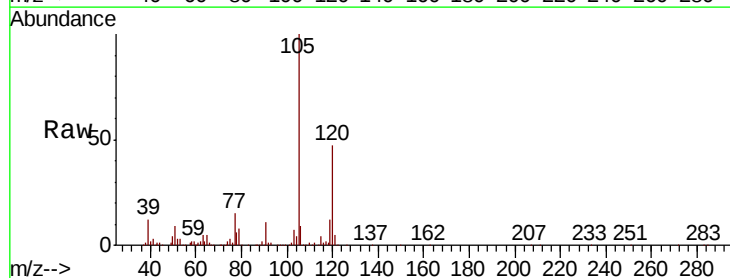
Acq: 9 Oct 2018 21:29

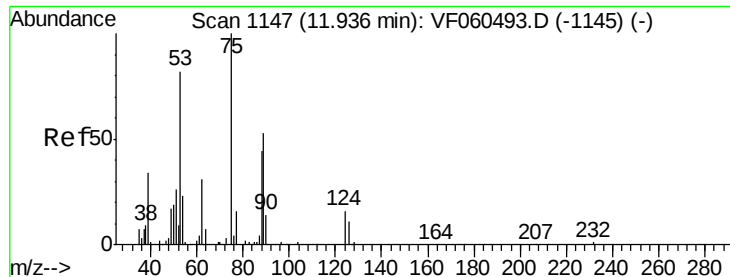
Tgt Ion: 105 Resp: 135476

Ion Ratio Lower Upper

105 100

120 46.8 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 16.405 ug/l

RT: 11.94 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

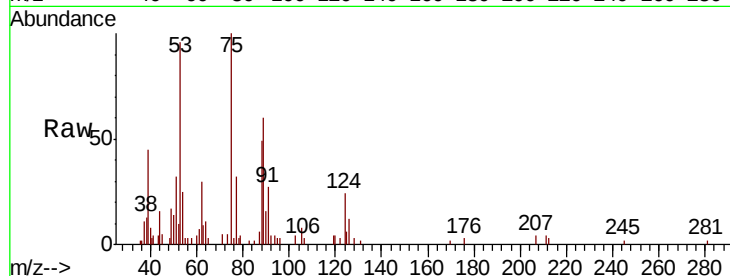
Tgt Ion: 75 Resp: 13892

Ion Ratio Lower Upper

75 100

53 95.9 71.0 106.6

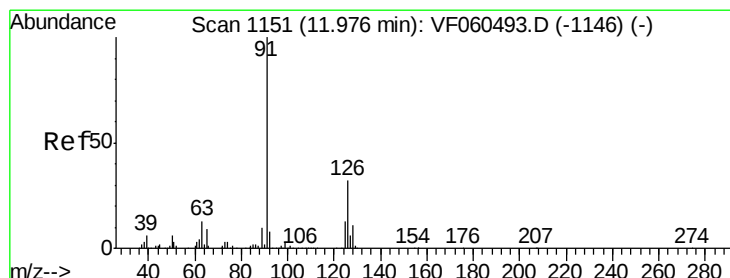
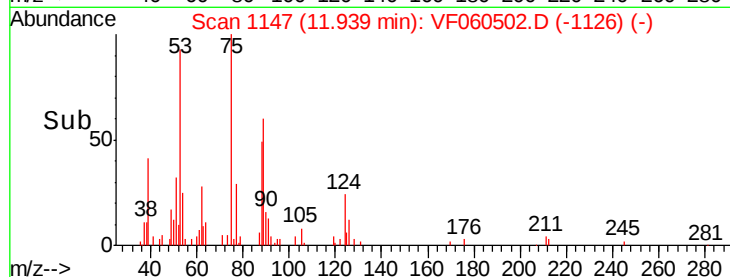
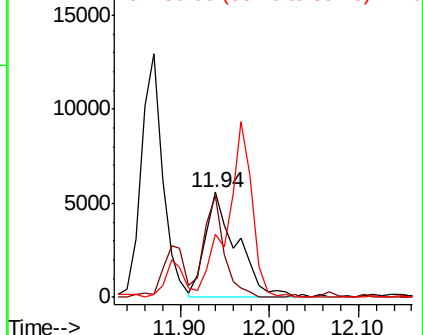
89 59.9 43.1 64.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 10.848 ug/l

RT: 11.97 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF060502.D

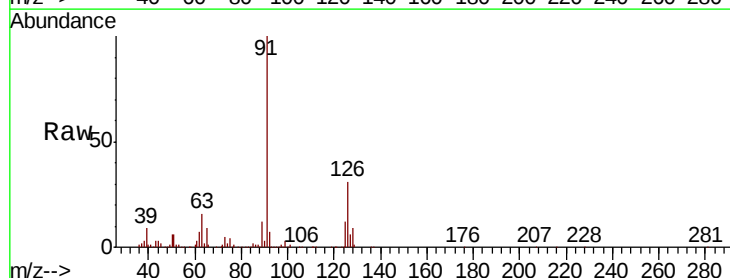
Acq: 9 Oct 2018 21:29

Tgt Ion: 91 Resp: 116641

Ion Ratio Lower Upper

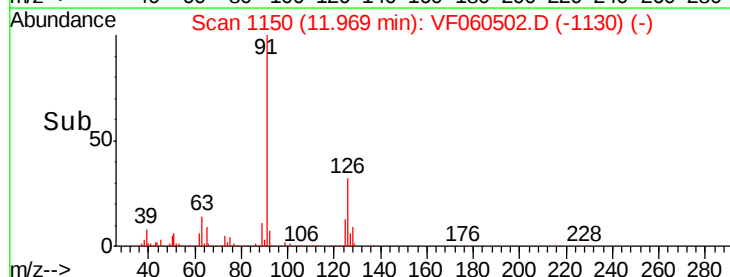
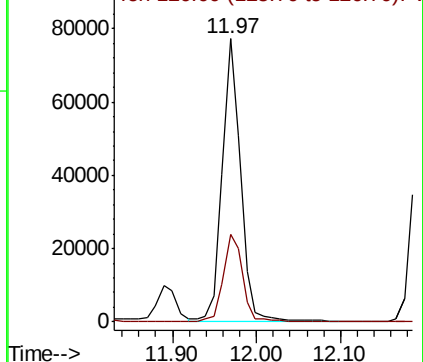
91 100

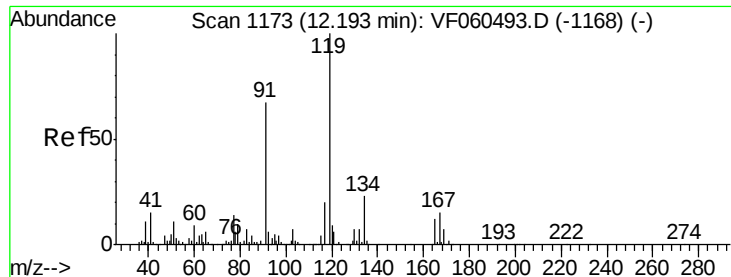
126 30.8 16.0 47.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

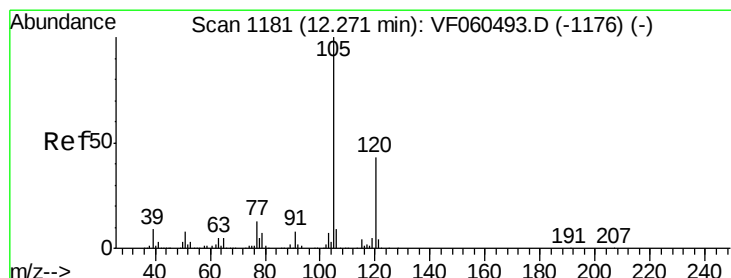
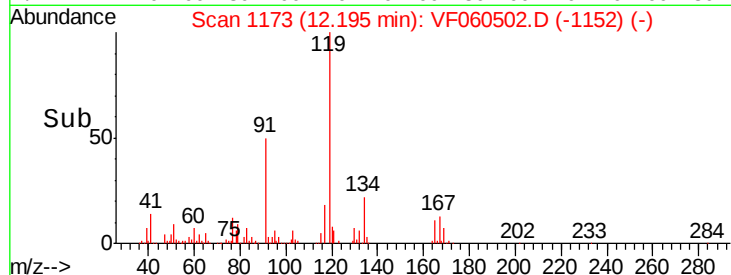
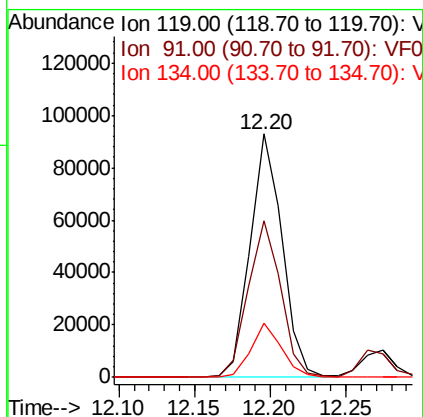
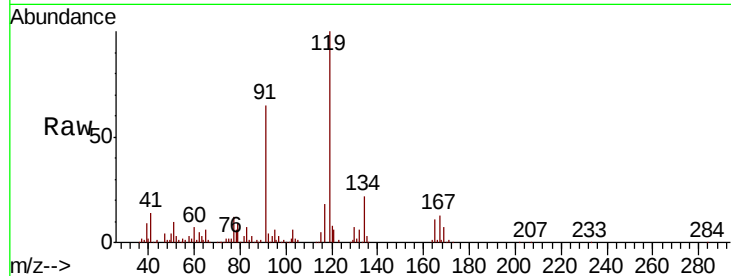




#83
 tert-Butylbenzene
 Concen: 10.933 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

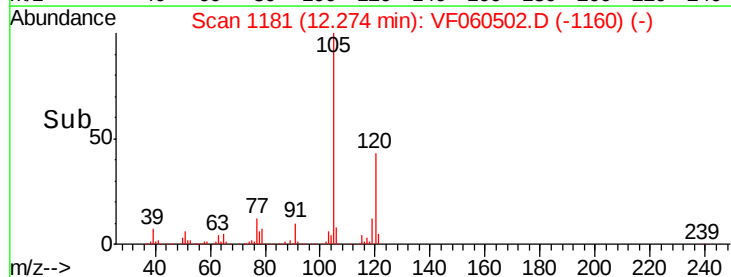
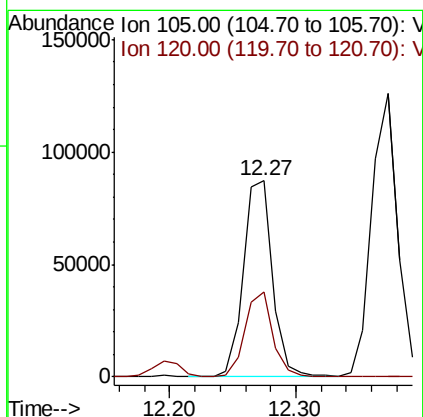
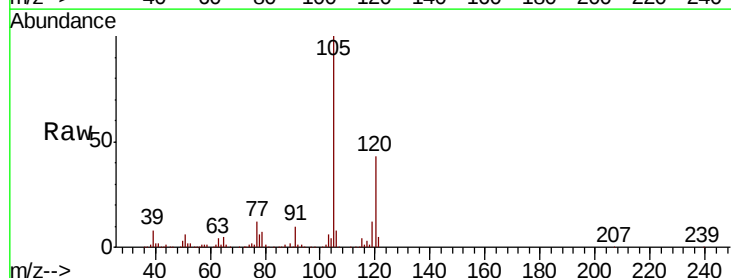
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

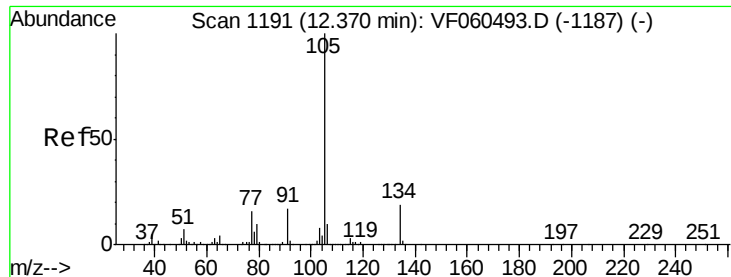
Tgt Ion:119 Resp: 137817
 Ion Ratio Lower Upper
 119 100
 91 64.5 33.6 100.8
 134 22.2 11.5 34.5



#84
 1,2,4-Trimethylbenzene
 Concen: 10.882 ug/l
 RT: 12.27 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion:105 Resp: 138536
 Ion Ratio Lower Upper
 105 100
 120 43.2 21.7 65.1





#85

sec-Butylbenzene

Concen: 10.730 ug/l

RT: 12.37 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

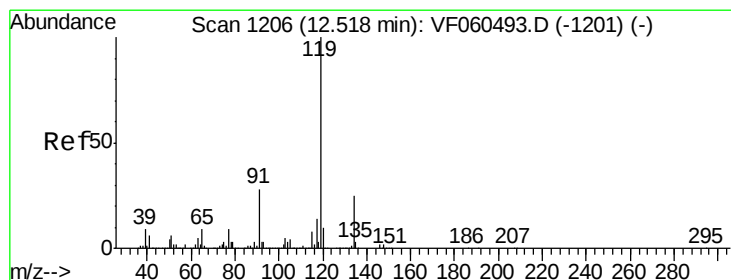
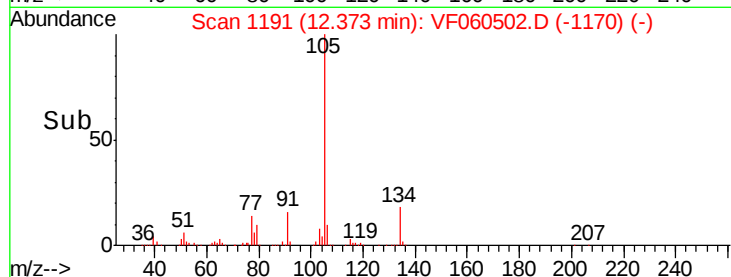
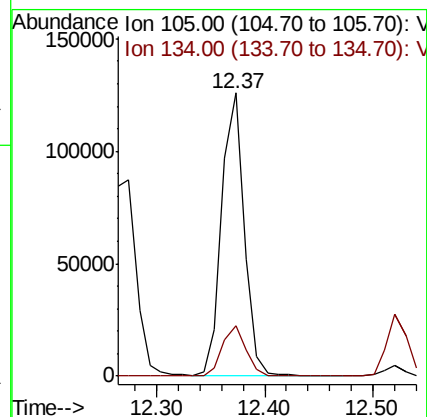
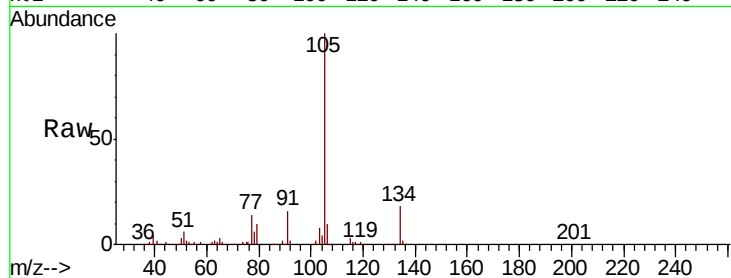
LOQ-SOIL-02-QT4-2018

Tgt Ion:105 Resp: 183449

Ion Ratio Lower Upper

105 100

134 17.6 9.3 27.9



#86

p-Isopropyltoluene

Concen: 11.085 ug/l

RT: 12.52 min Scan# 1206

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

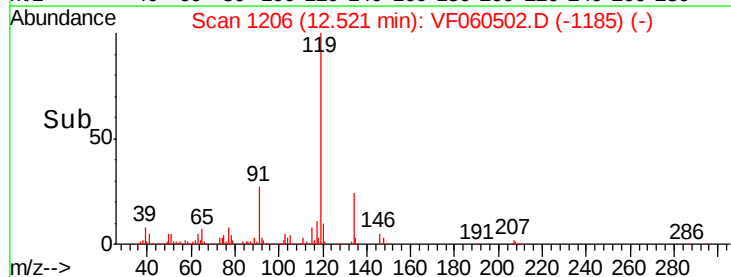
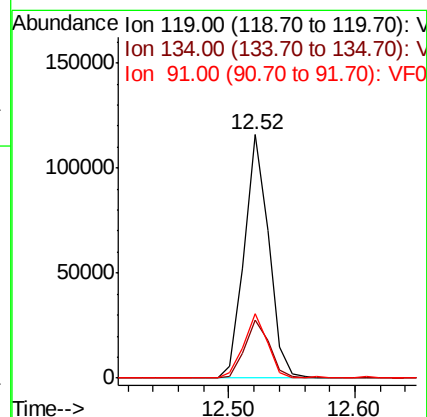
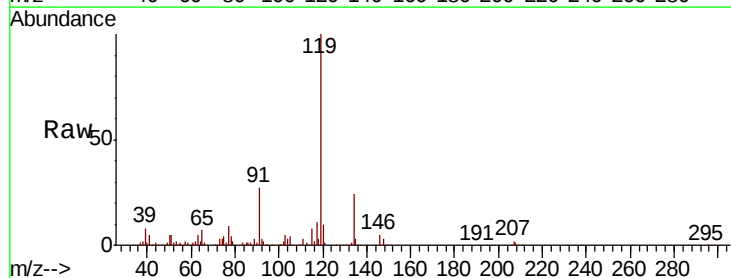
Tgt Ion:119 Resp: 155575

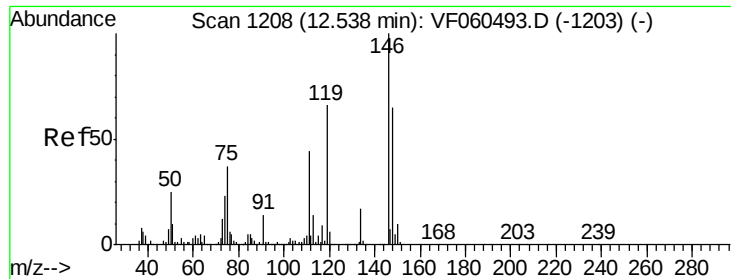
Ion Ratio Lower Upper

119 100

134 23.8 12.6 37.6

91 26.7 14.1 42.4





#87

1,3-Dichlorobenzene

Concen: 11.580 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

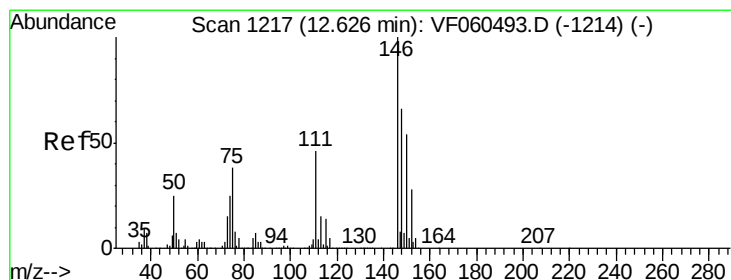
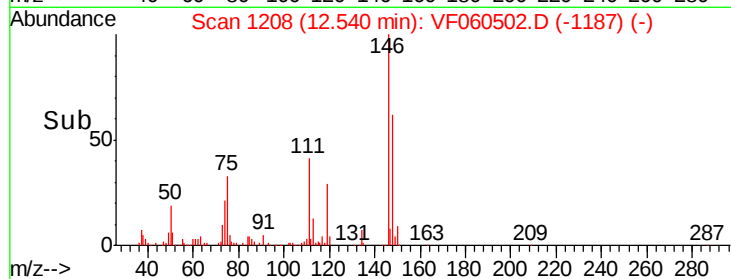
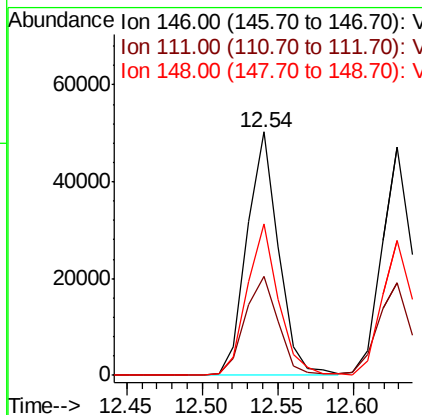
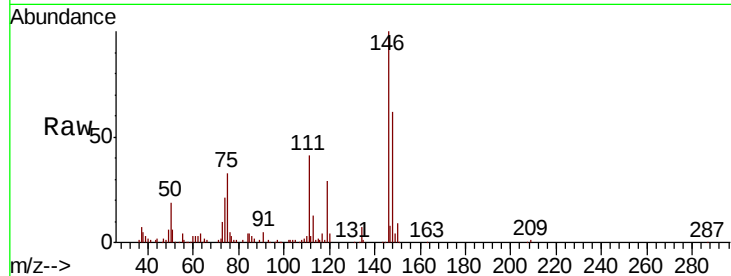
Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	146	Resp:	73271
Ion	Ratio	Lower	Upper
146	100		
111	40.6	22.2	66.6
148	62.5	32.7	98.1



#88

1,4-Dichlorobenzene

Concen: 11.014 ug/l

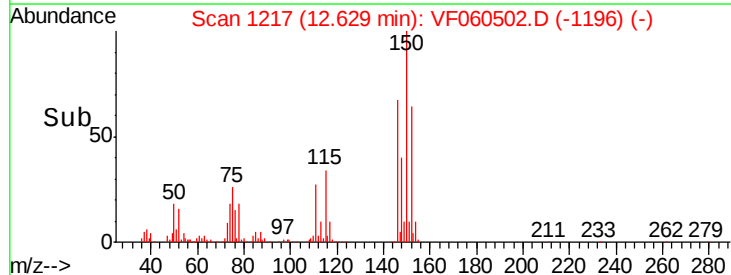
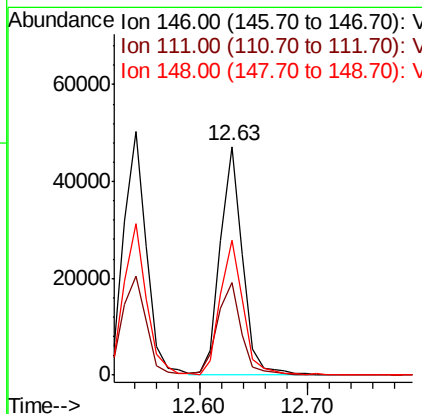
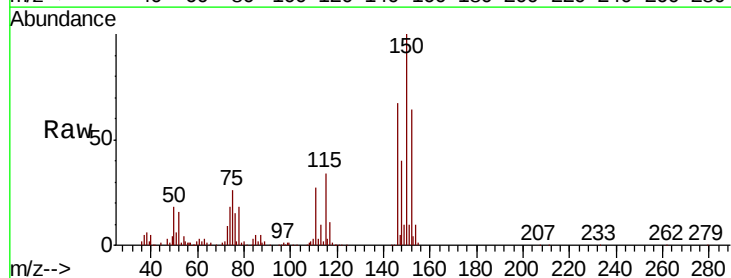
RT: 12.63 min Scan# 1217

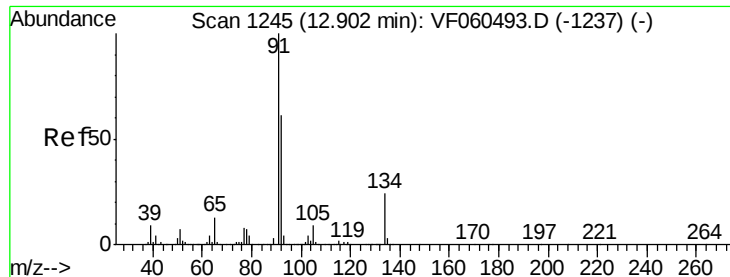
Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	146	Resp:	67583
Ion	Ratio	Lower	Upper
146	100		
111	40.7	23.2	69.6
148	59.3	33.3	99.9





#89

n-Butylbenzene

Concen: 10.917 ug/l

RT: 12.91 min Scan# 1245

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

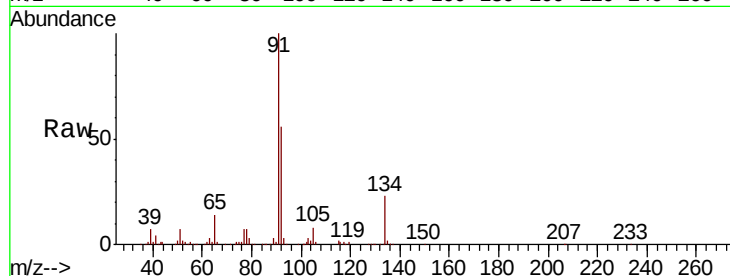
Tgt Ion: 91 Resp: 160332

Ion Ratio Lower Upper

91 100

92 56.1 30.8 92.3

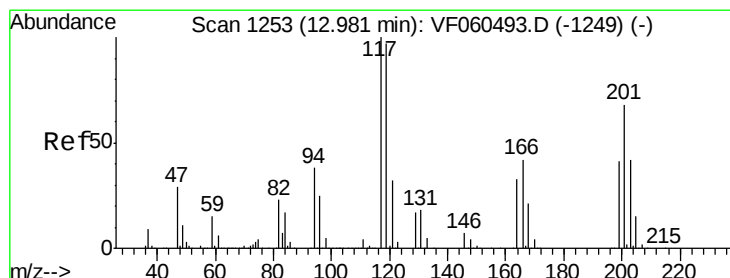
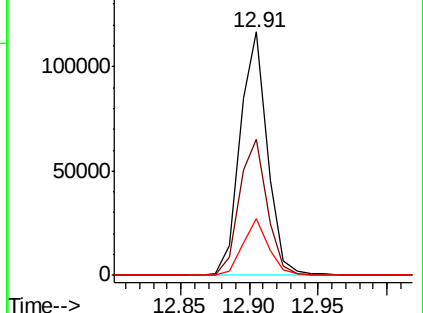
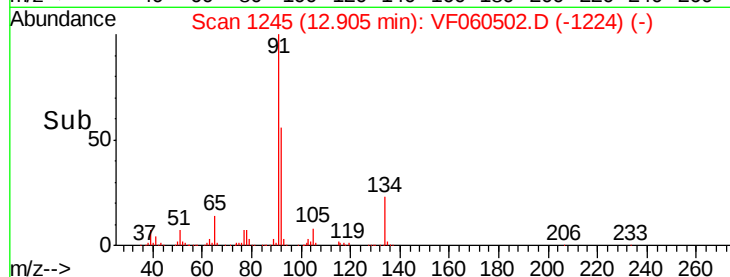
134 23.3 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 10.436 ug/l

RT: 12.97 min Scan# 1252

Delta R.T. -0.01 min

Lab File: VF060502.D

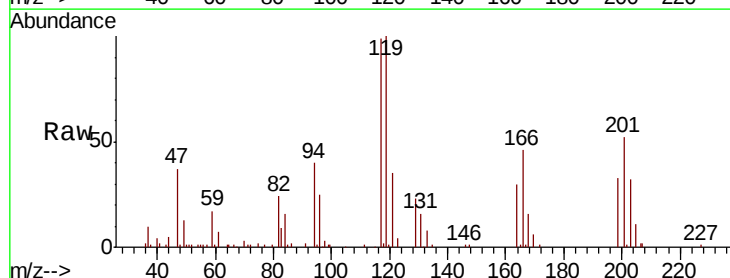
Acq: 9 Oct 2018 21:29

Tgt Ion: 117 Resp: 35025

Ion Ratio Lower Upper

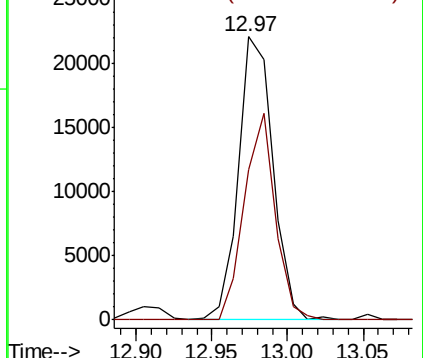
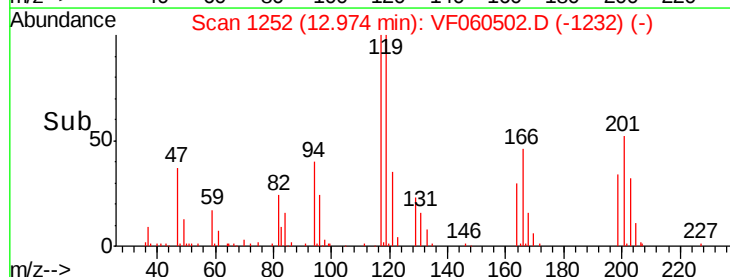
117 100

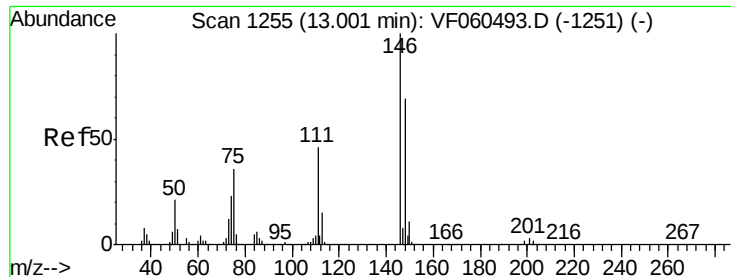
201 53.1 34.0 102.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 11.207 ug/l

RT: 13.00 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

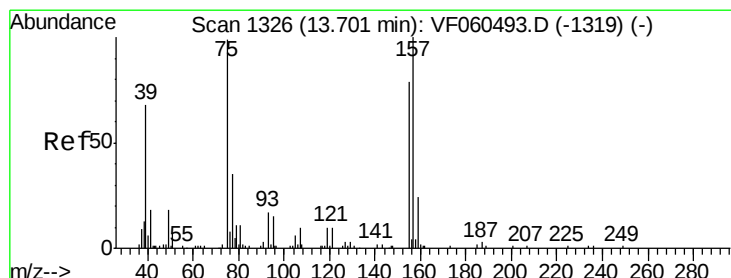
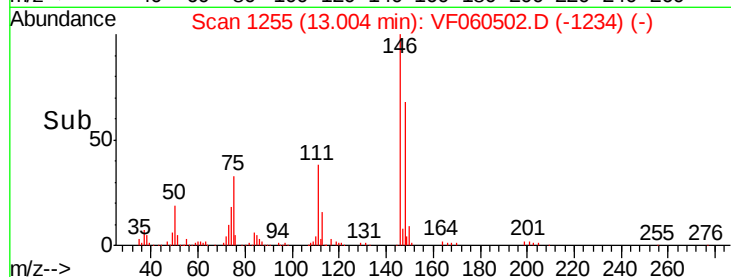
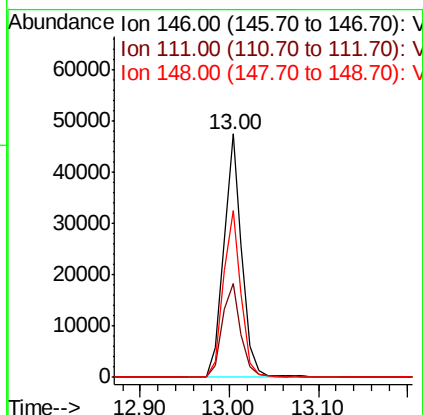
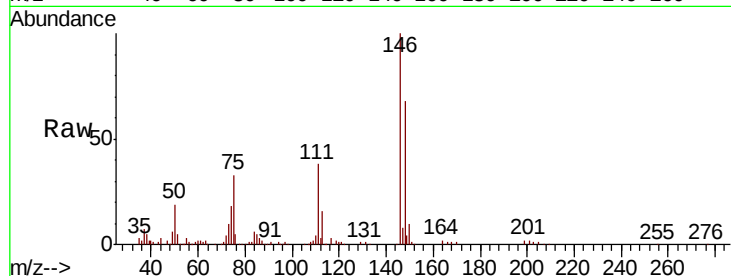
Tgt Ion:146 Resp: 68263

Ion Ratio Lower Upper

146 100

111 38.4 22.9 68.7

148 68.4 34.5 103.5



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.421 ug/l

RT: 13.69 min Scan# 1325

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

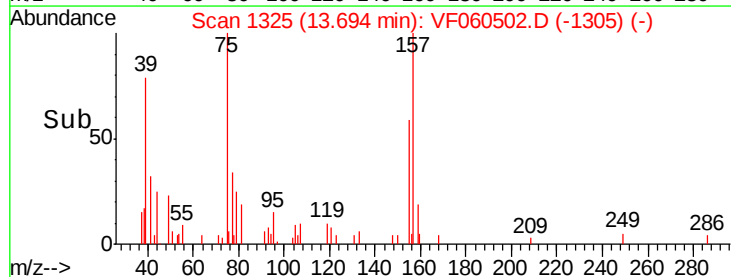
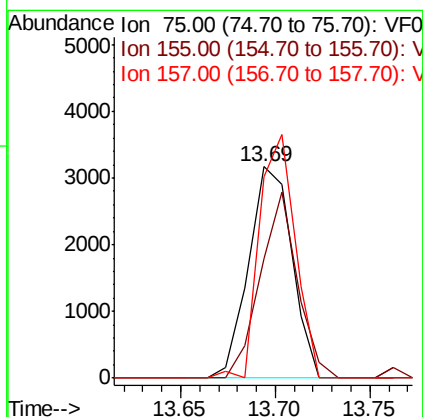
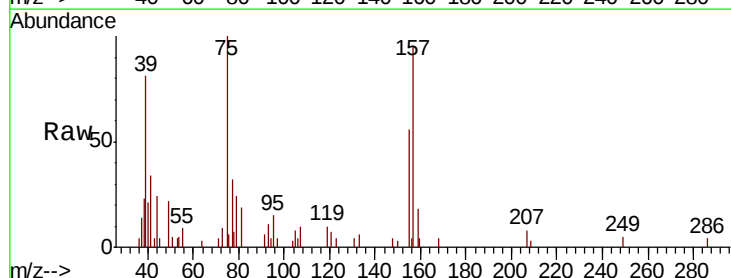
Tgt Ion: 75 Resp: 5024

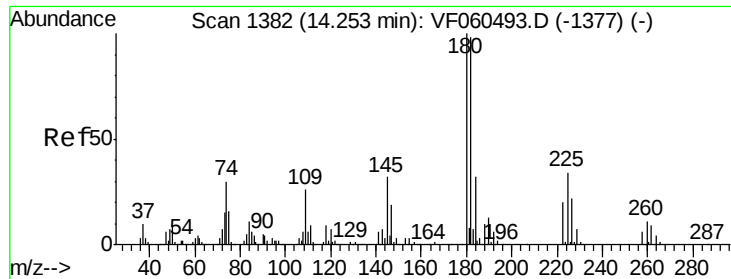
Ion Ratio Lower Upper

75 100

155 56.4 40.6 121.7

157 95.4 50.8 152.5

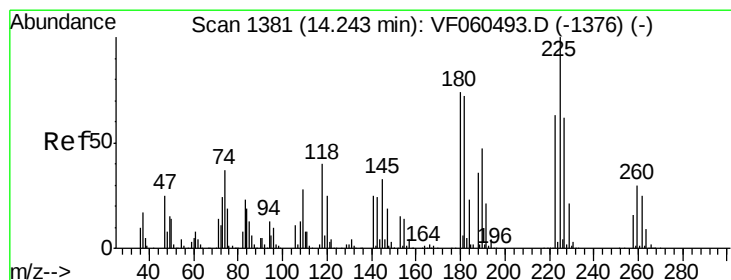
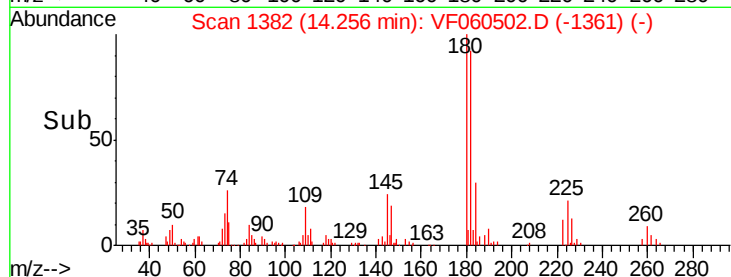
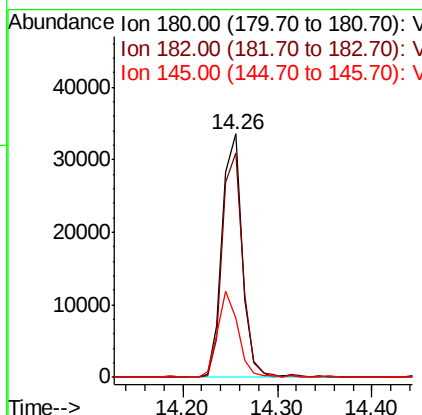
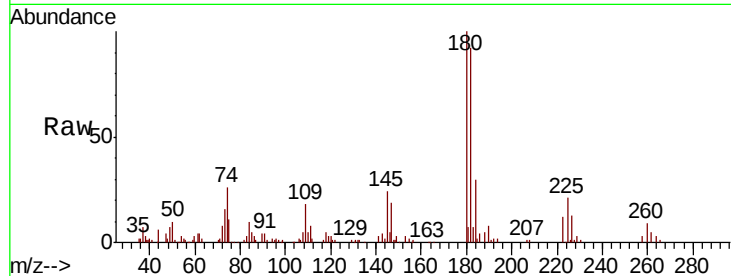




#93
 1,2,4-Trichlorobenzene
 Concen: 10.533 ug/l
 RT: 14.26 min Scan# 1382
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

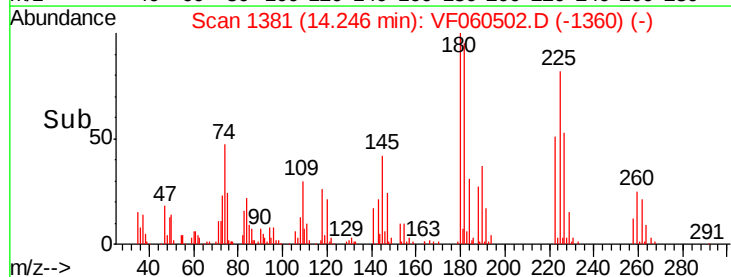
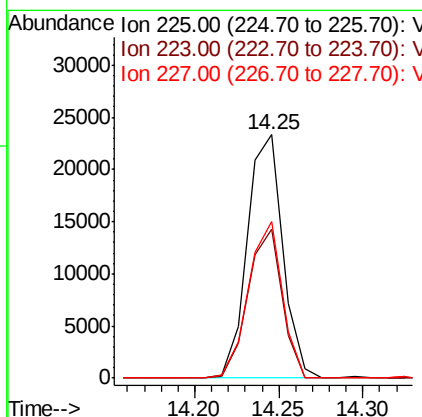
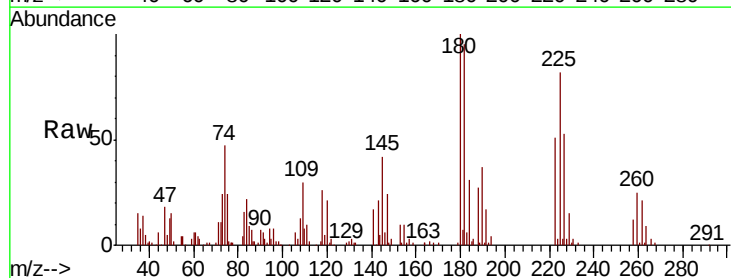
Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

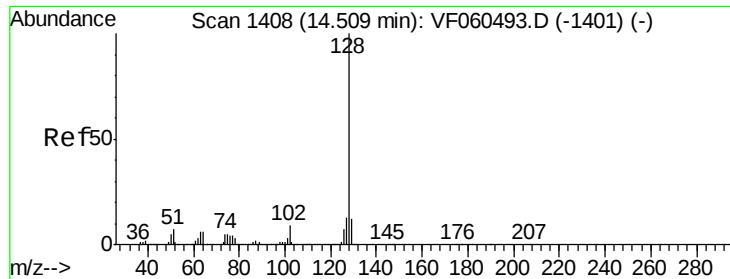
Tgt Ion:180 Resp: 49546
 Ion Ratio Lower Upper
 180 100
 182 92.3 48.9 146.8
 145 24.4 16.2 48.5



#94
 Hexachlorobutadiene
 Concen: 10.669 ug/l
 RT: 14.25 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion:225 Resp: 34119
 Ion Ratio Lower Upper
 225 100
 223 61.4 31.4 94.2
 227 64.5 30.9 92.7

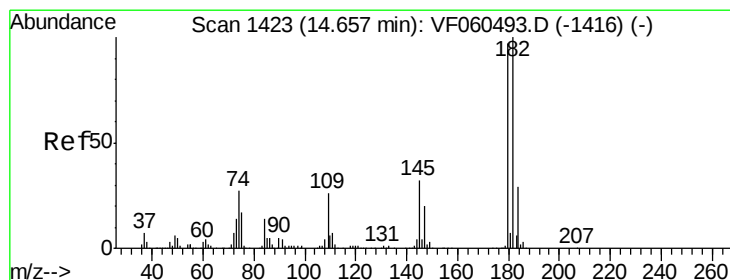
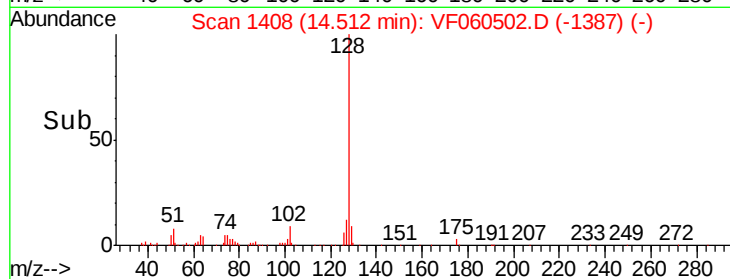
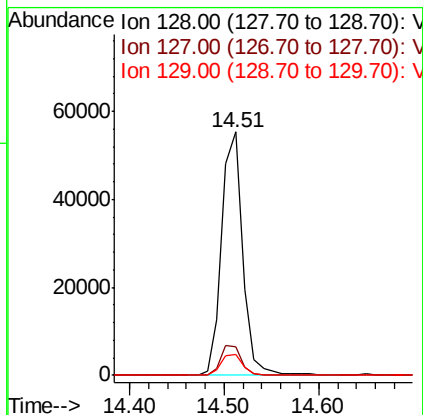
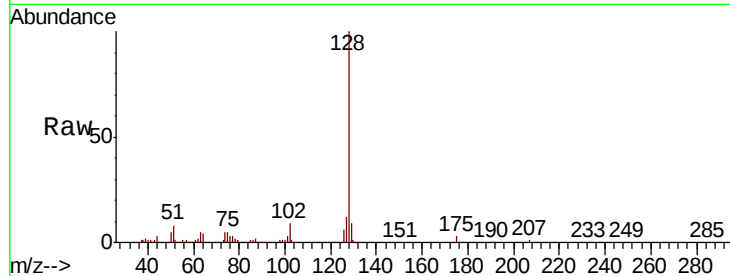




#95
Naphthalene
Concen: 10.578 ug/l
RT: 14.51 min Scan# 1408
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:128 Resp: 85534
Ion Ratio Lower Upper
128 100
127 11.7 10.2 15.2
129 8.6 9.2 13.8#



#96
1,2,3-Trichlorobenzene
Concen: 10.804 ug/l
RT: 14.65 min Scan# 1422
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion:180 Resp: 47347
Ion Ratio Lower Upper
180 100
182 95.0 51.3 153.9
145 33.7 16.4 49.2

