

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061832.D
 Acq On : 4 Mar 2019 21:48
 Operator : VA/AP
 Sample : K1560-012.5PPBLOD
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Quant Time: Mar 05 05:59:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	293962	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	483620	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	381919	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	226037	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	126489	59.09	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	118.18%	
35) Dibromofluoromethane	4.12	113	186306	55.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	110.40%	
50) Toluene-d8	7.55	98	489574	48.80	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.41	95	205784	52.37	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	104.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	11917	3.302	ug/l	96
3) Chloromethane	1.10	50	10988	3.142	ug/l #	74
4) Vinyl Chloride	1.14	62	9821	2.958	ug/l #	84
5) Bromomethane	1.33	94	7461	3.297	ug/l #	69
6) Chloroethane	1.39	64	5533	3.506	ug/l #	74
7) Trichlorofluoromethane	1.49	101	13168	3.247	ug/l	94
8) Diethyl Ether	1.63	74	3705	4.018	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	10576	3.840	ug/l	88
10) Methyl Iodide	1.85	142	3061	0.584	ug/l	93
11) Tert butyl alcohol	2.57	59	2039	16.781	ug/l #	86
12) 1,1-Dichloroethene	1.80	96	9120	3.628	ug/l	97
13) Acrolein	2.01	56	3131	20.336	ug/l	93
14) Allyl chloride	2.10	41	7536	2.721	ug/l	90
15) Acrylonitrile	2.94	53	7899	20.415	ug/l #	89
16) Acetone	2.24	43	8850	19.736	ug/l #	80
17) Carbon Disulfide	1.83	76	24608	3.144	ug/l	97
18) Methyl Acetate	2.34	43	3997	Below Cal		99
19) Methyl tert-butyl Ether	2.43	73	14820	3.485	ug/l #	91
20) Methylene Chloride	2.18	84	5654	Below Cal		88
21) trans-1,2-Dichloroethene	2.31	96	8932	3.775	ug/l	95
22) Diisopropyl ether	2.80	45	22684	3.149	ug/l	91
23) Vinyl Acetate	3.19	43	48743	15.144	ug/l	97
24) 1,1-Dichloroethane	2.87	63	13373	3.105	ug/l #	95
25) 2-Butanone	4.35	43	16422	18.004	ug/l	97
26) 2,2-Dichloropropane	3.61	77	5285	2.749	ug/l	91
27) cis-1,2-Dichloroethene	3.47	96	11405	3.479	ug/l	74
28) Bromochloromethane	3.71	49	5776	3.077	ug/l	88
29) Tetrahydrofuran	4.09	42	7254	18.440	ug/l	93
30) Chloroform	3.85	83	16657	3.386	ug/l	83
31) Cyclohexane	3.70	56	9326	2.068	ug/l #	76
32) 1,1,1-Trichloroethane	4.10	97	8303	2.739	ug/l #	89
36) 1,1-Dichloropropene	4.29	75	13772	3.015	ug/l	96
37) Ethyl Acetate	4.11	43	7488	3.905	ug/l #	61
38) Carbon Tetrachloride	3.98	117	9466	2.927	ug/l	85

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	14757	2.735	ug/l #	81
40) Benzene	4.63	78	31071	2.602	ug/l	97
41) Methacrylonitrile	4.75	41	3646	3.471	ug/l #	87
42) 1,2-Dichloroethane	4.95	62	8822	2.965	ug/l	88
43) Isopropyl Acetate	6.97	43	7270	3.076	ug/l	93
44) Trichloroethene	5.50	130	10136	2.731	ug/l	82
45) 1,2-Dichloropropane	6.23	63	7307	2.573	ug/l	92
46) Dibromomethane	6.08	93	4298	2.405	ug/l #	87
47) Bromodichloromethane	6.38	83	10648	2.697	ug/l	98
48) Methyl methacrylate	6.71	41	5674	3.793	ug/l	87
49) 1,4-Dioxane	6.71	88	1053	77.005	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	26214	16.047	ug/l	99
52) Toluene	7.62	92	19173	2.714	ug/l	96
53) t-1,3-Dichloropropene	8.27	75	8441	2.590	ug/l #	83
54) cis-1,3-Dichloropropene	7.30	75	11639	2.589	ug/l #	86
55) 1,1,2-Trichloroethane	8.49	97	5501	2.703	ug/l #	87
56) Ethyl methacrylate	8.62	69	6961	3.035	ug/l	92
57) 1,3-Dichloropropane	8.85	76	9717	2.919	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.28	63	3695	10.183	ug/l #	88
59) 2-Hexanone	9.49	43	21402	18.161	ug/l	84
60) Dibromochloromethane	8.71	129	6983	2.407	ug/l	100
61) 1,2-Dibromoethane	8.98	107	6031	2.695	ug/l	85
64) Tetrachloroethene	8.15	164	8858	3.018	ug/l	91
65) Chlorobenzene	9.80	112	22869	3.117	ug/l	92
66) 1,1,1,2-Tetrachloroethane	9.93	131	8153	2.868	ug/l	92
67) Ethyl Benzene	9.90	91	36558	3.006	ug/l	99
68) m/p-Xylenes	10.12	106	27611	5.926	ug/l	96
69) o-Xylene	10.71	106	14051	2.801	ug/l	89
70) Styrene	10.78	104	21741	3.079	ug/l	96
71) Bromoform	10.77	173	4096	2.726	ug/l	86
73) Isopropylbenzene	11.12	105	45615	2.931	ug/l	98
74) N-amyl acetate	11.37	43	12040	3.361	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.69	83	8108	3.135	ug/l	89
76) 1,2,3-Trichloropropane	11.79	75	5337	3.023	ug/l	98
77) Bromobenzene	11.49	156	10751	2.871	ug/l	88
78) n-propylbenzene	11.59	91	55724	3.171	ug/l	95
79) 2-Chlorotoluene	11.72	91	30278	3.014	ug/l	89
80) 1,3,5-Trimethylbenzene	11.82	105	36850	2.949	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.88	75	3200	3.964	ug/l #	72
82) 4-Chlorotoluene	11.90	91	30869	3.004	ug/l	93
83) tert-Butylbenzene	12.13	119	40775	3.074	ug/l	82
84) 1,2,4-Trimethylbenzene	12.20	105	39263	3.206	ug/l	91
85) sec-Butylbenzene	12.30	105	54691	3.168	ug/l	96
86) p-Isopropyltoluene	12.46	119	46455	3.166	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	25627	3.604	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	22228	3.240	ug/l	94
89) n-Butylbenzene	12.85	91	42306	3.017	ug/l	95
90) Hexachloroethane	12.91	117	9822	2.781	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	22439	3.330	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.63	75	1162	6.160	ug/l #	39

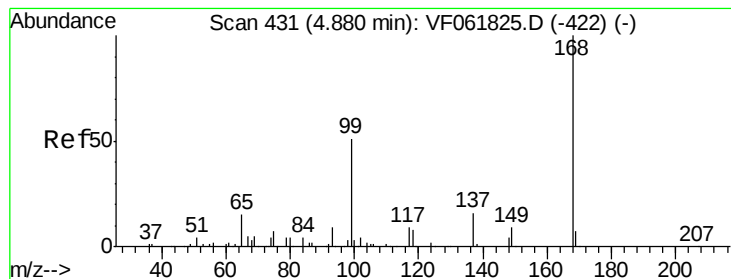
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	15820	3.349	ug/l	95
94) Hexachlorobutadiene	14.19	225	7965	2.436	ug/l	96
95) Naphthalene	14.45	128	28787	3.422	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	14459	3.315	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

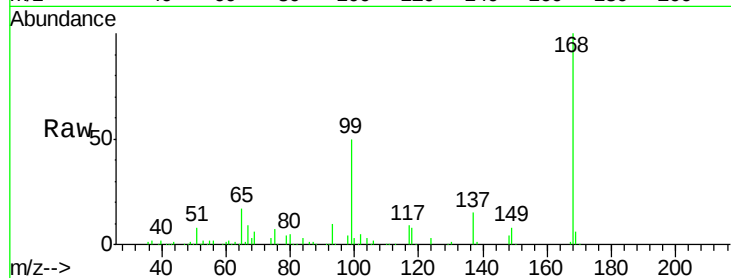
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:168 Resp: 293962

Ion Ratio Lower Upper

168 100

99 49.9 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

60000

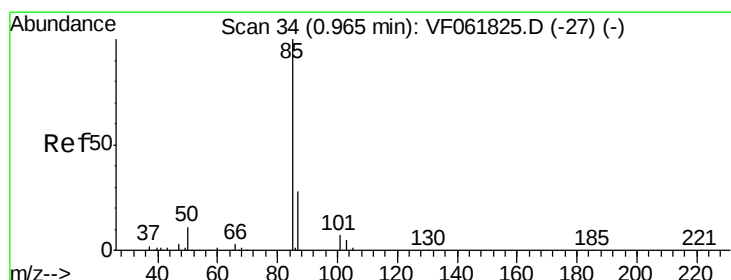
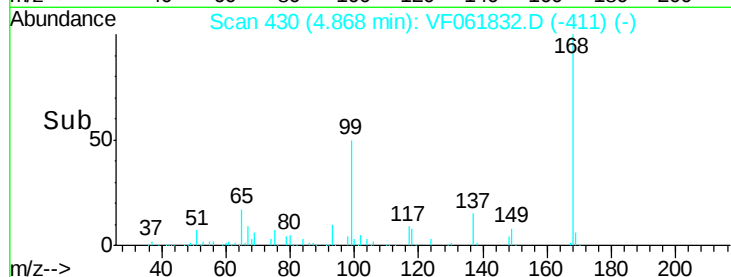
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 3.302 ug/l

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF061832.D

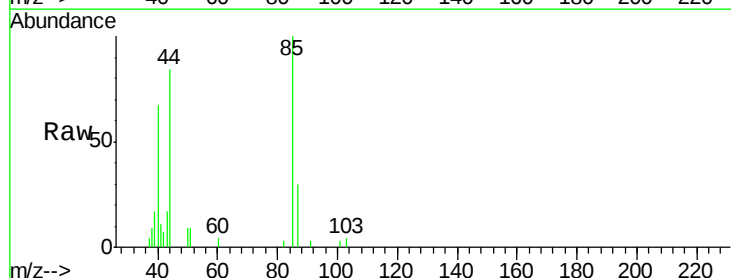
Acq: 4 Mar 2019 21:48

Tgt Ion: 85 Resp: 11917

Ion Ratio Lower Upper

85 100

87 30.0 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

4000

3000

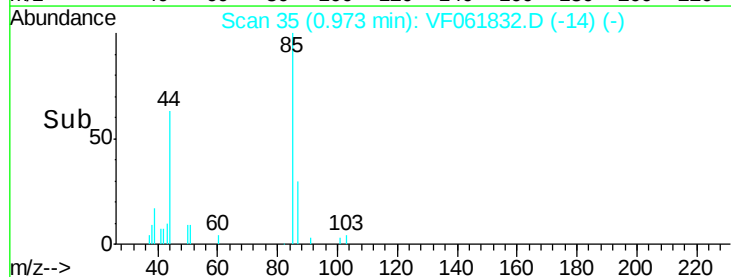
2000

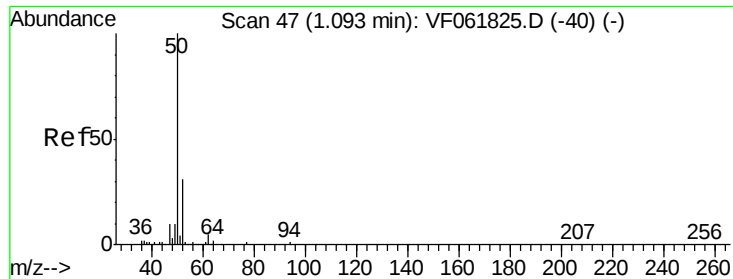
1000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 3.142 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

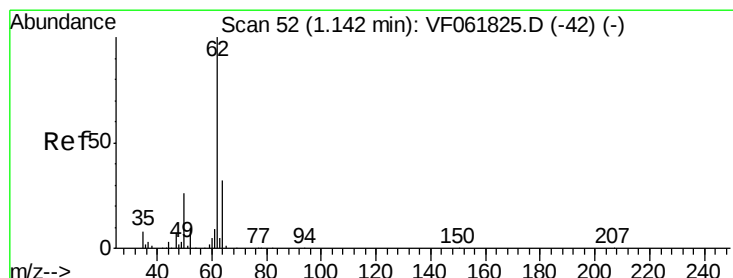
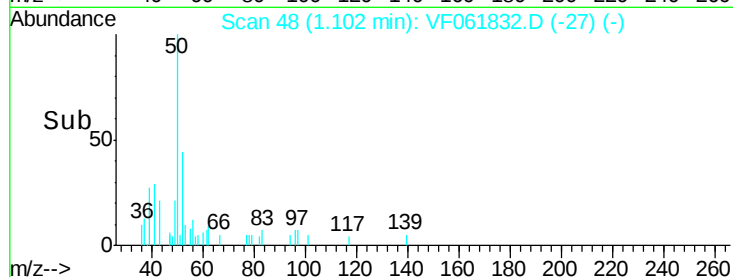
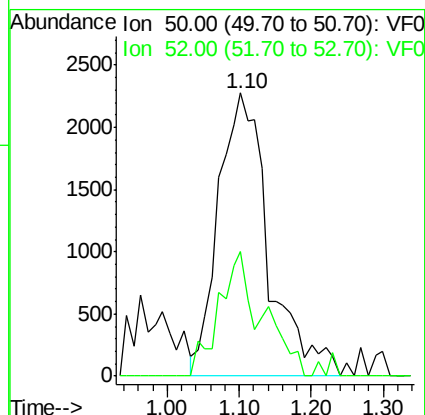
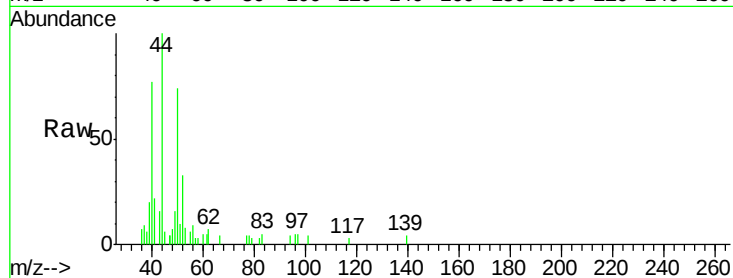
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 50 Resp: 10988

Ion Ratio Lower Upper

50 100

52 44.1 23.8 35.8#



#4

Vinyl Chloride

Concen: 2.958 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061832.D

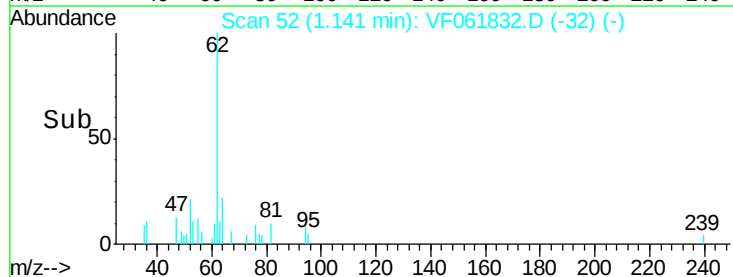
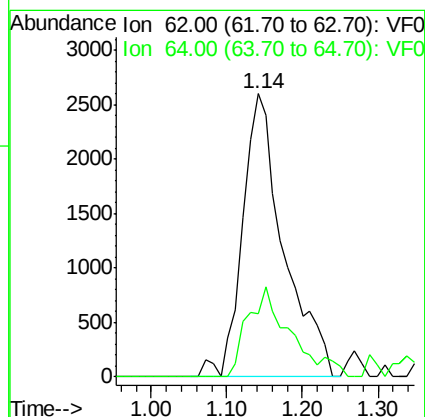
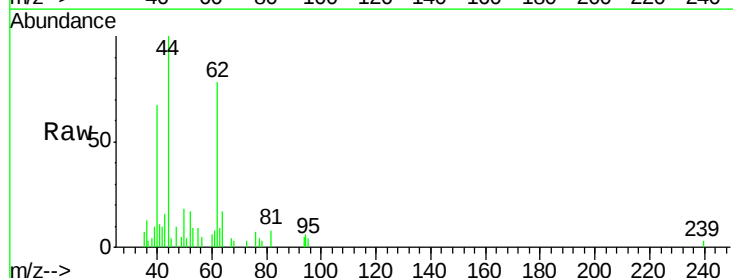
Acq: 4 Mar 2019 21:48

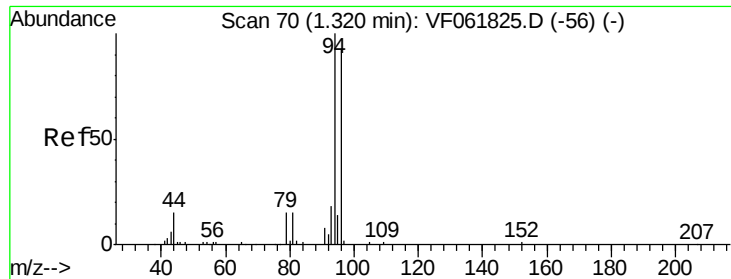
Tgt Ion: 62 Resp: 9821

Ion Ratio Lower Upper

62 100

64 22.4 25.2 37.8#





#5

Bromomethane

Concen: 3.297 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

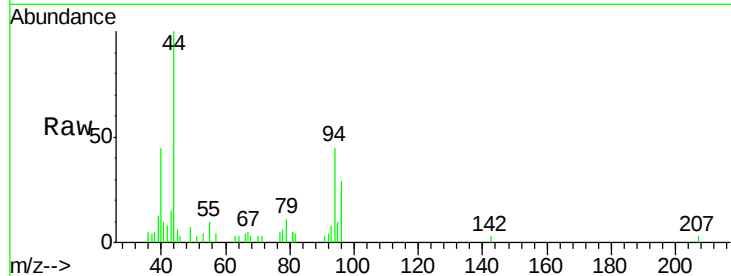
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 94 Resp: 7461

Ion Ratio Lower Upper

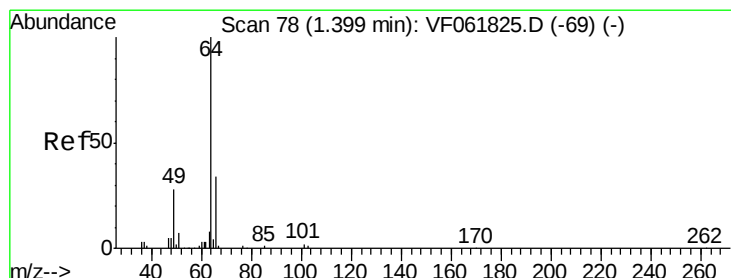
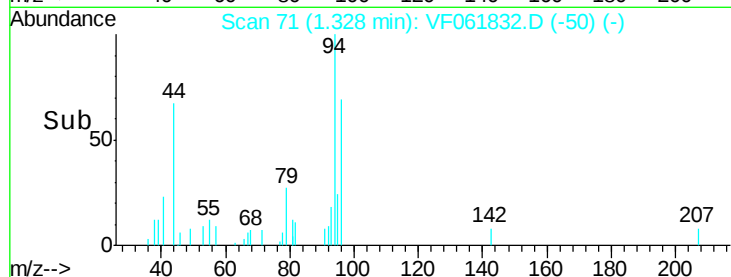
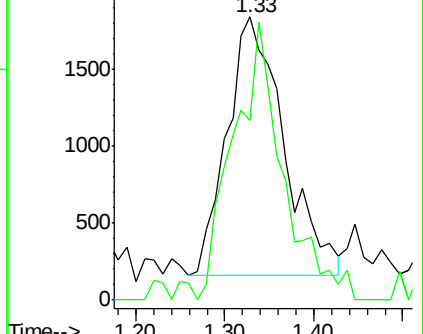
94 100

96 63.7 75.2 112.8#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 3.506 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061832.D

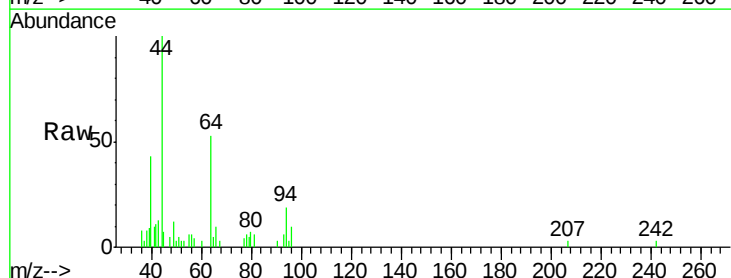
Acq: 4 Mar 2019 21:48

Tgt Ion: 64 Resp: 5533

Ion Ratio Lower Upper

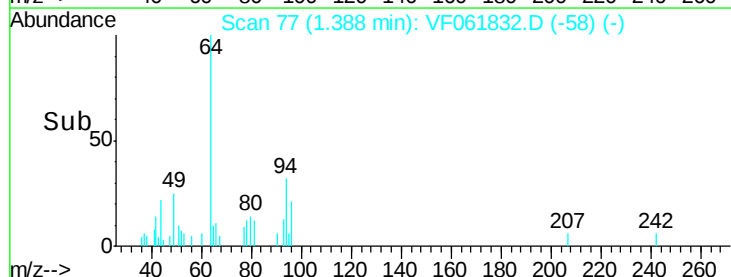
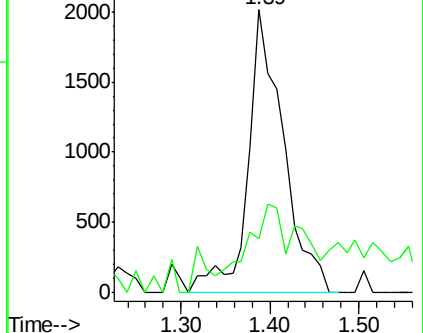
64 100

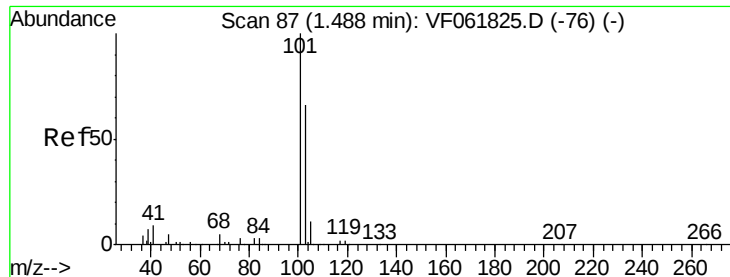
66 19.1 27.0 40.4#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 3.247 ug/l

RT: 1.49 min Scan# 87

Delta R.T. -0.00 min

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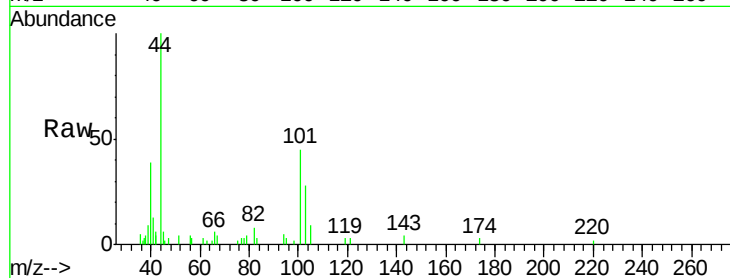
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:101 Resp: 13168

Ion Ratio Lower Upper

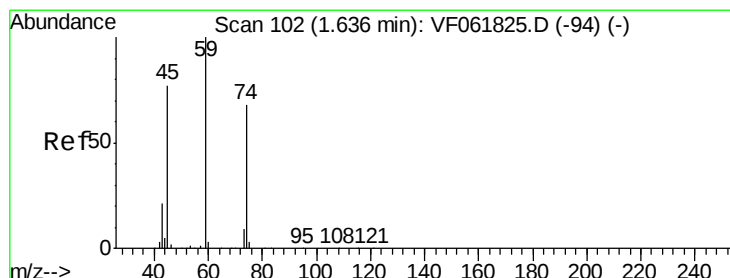
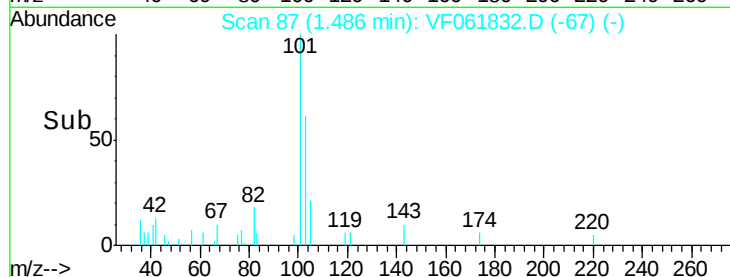
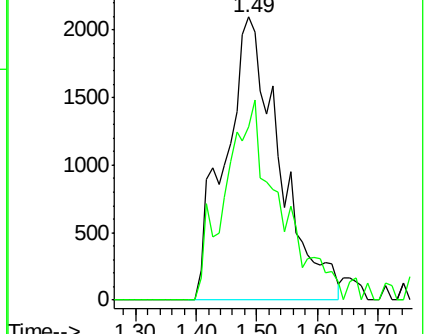
101 100

103 61.2 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 4.018 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061832.D

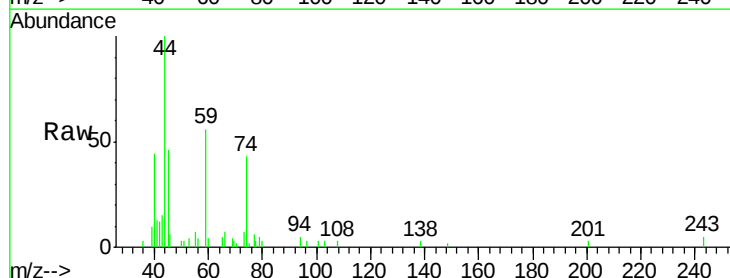
Acq: 4 Mar 2019 21:48

Tgt Ion: 74 Resp: 3705

Ion Ratio Lower Upper

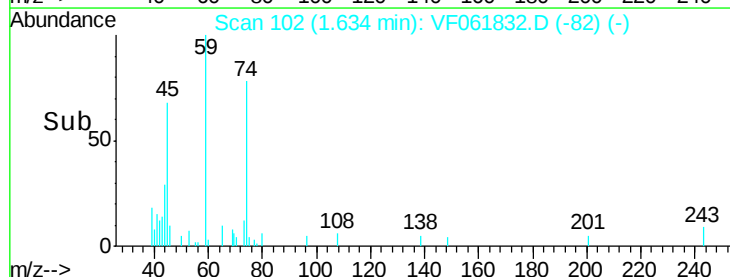
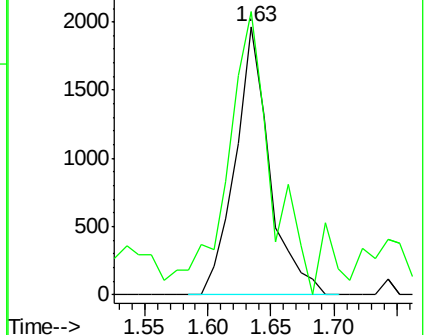
74 100

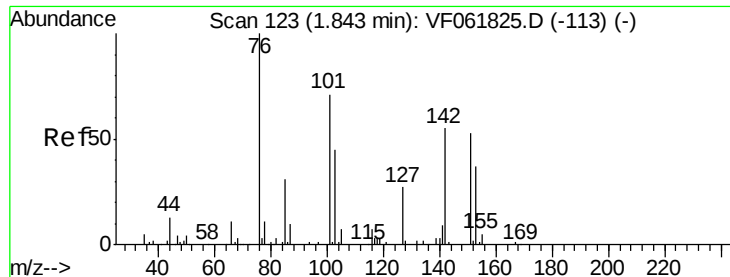
45 105.5 57.2 171.6



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: 3.840 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

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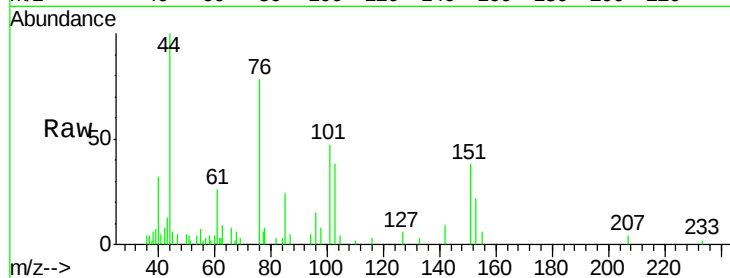
Tot Ion:101 Resp: 10576

Ion Ratio Lower Upper

101 100

85 50.3 34.0 51.0

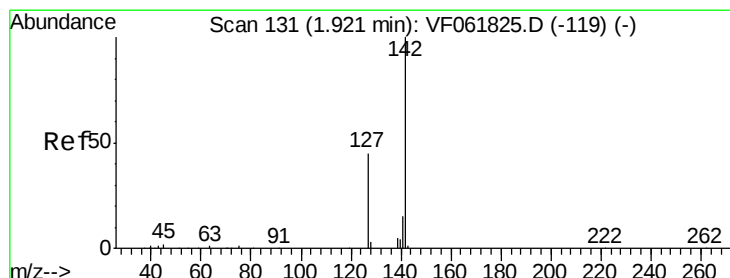
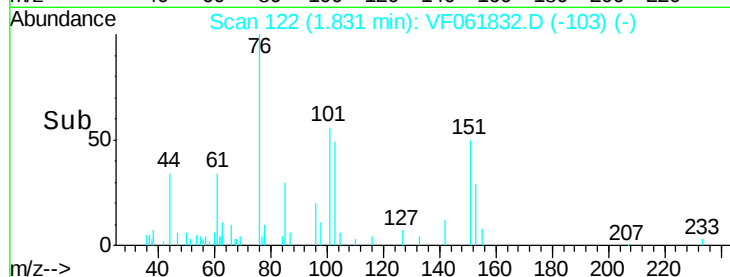
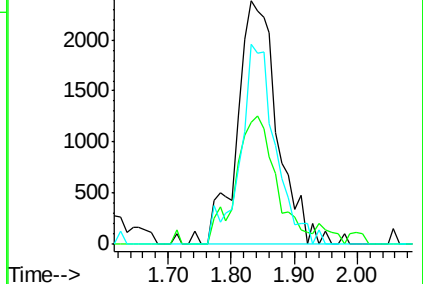
151 81.9 57.3 85.9



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: 0.584 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.07 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

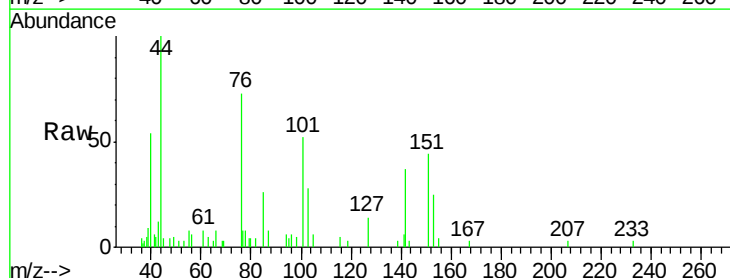
Tgt Ion:142 Resp: 3061

Ion Ratio Lower Upper

142 100

127 39.3 35.8 53.6

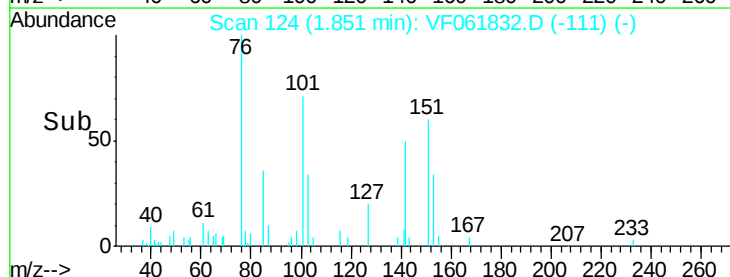
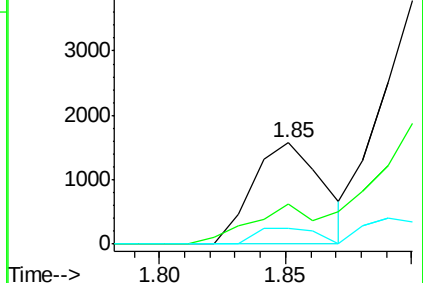
141 15.4 11.7 17.5

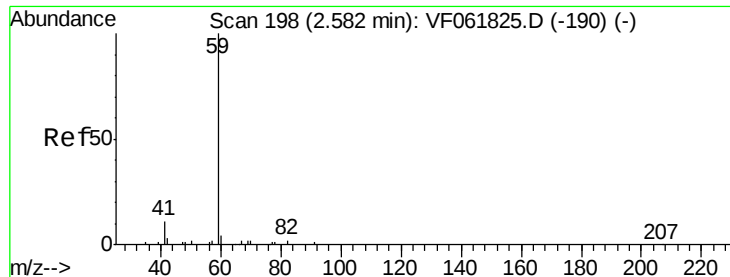


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



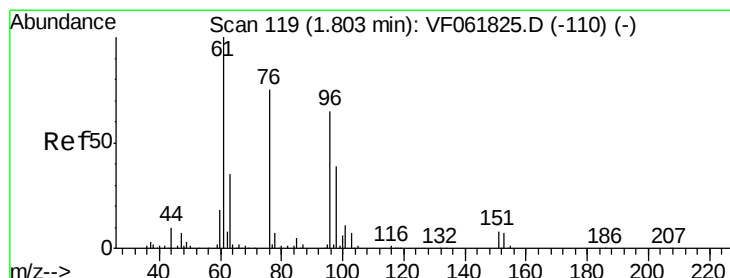
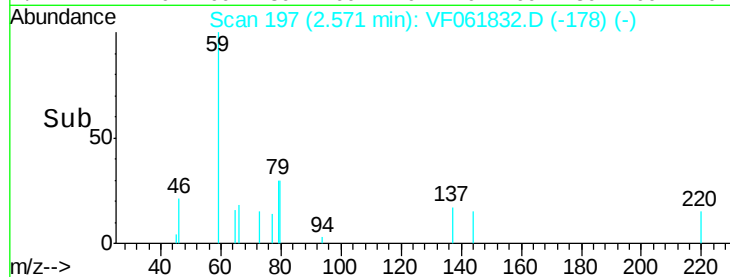
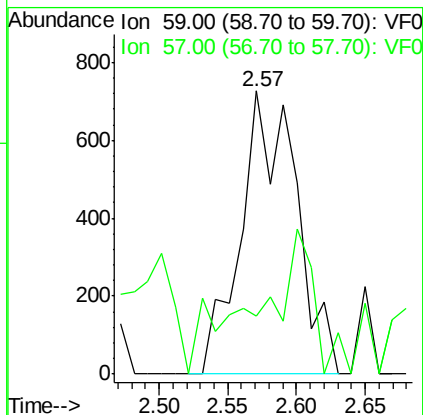
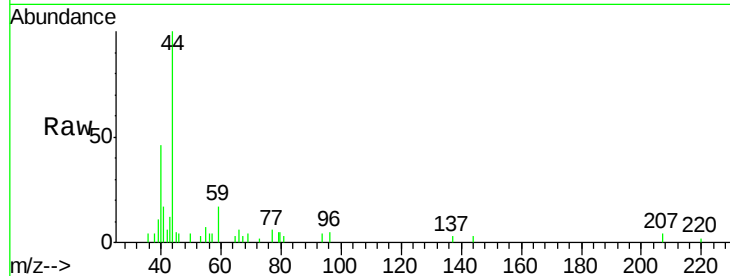


#11

Tert butyl alcohol
Concen: 16.781 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

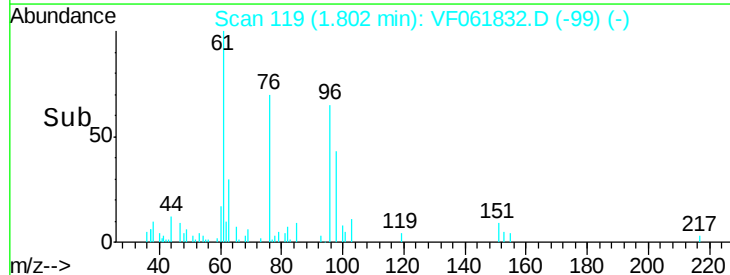
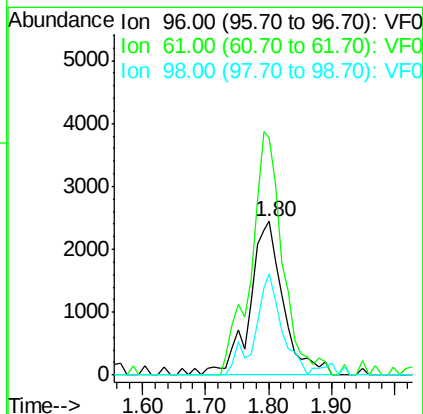
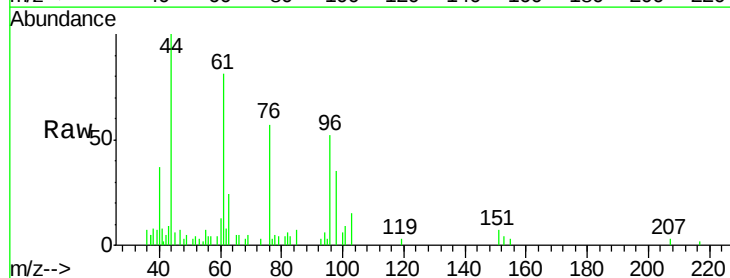
Tot Ion: 59 Resp: 2039
Ion Ratio Lower Upper
59 100
57 20.6 11.8 17.6#

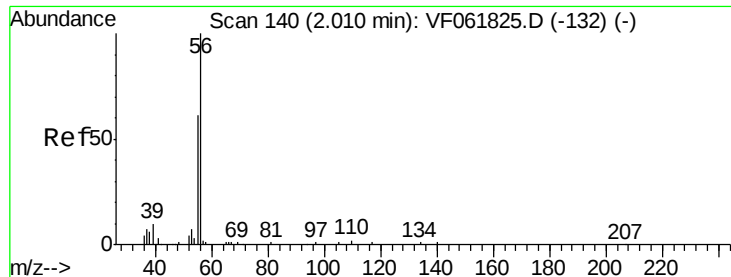


#12

1,1-Dichloroethene
Concen: 3.628 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 96 Resp: 9120
Ion Ratio Lower Upper
96 100
61 154.1 122.5 183.7
98 66.3 47.1 70.7





#13

Acrolein

Concen: 20.336 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

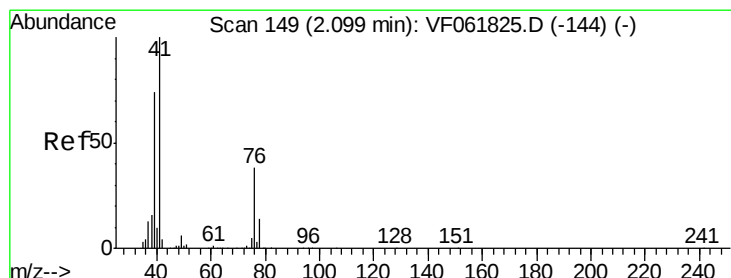
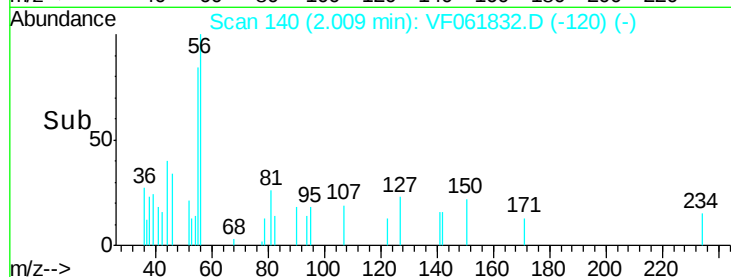
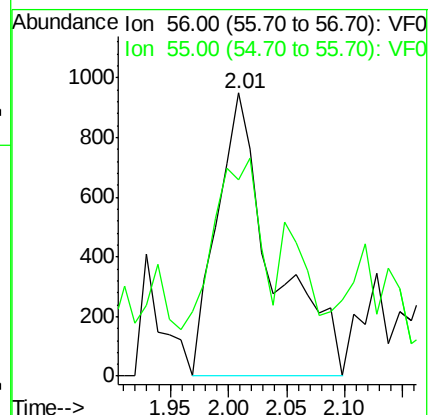
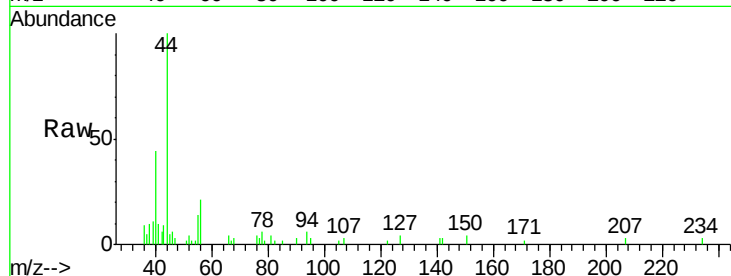
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 56 Resp: 3131

Ion Ratio Lower Upper

56 100

55 69.4 51.3 76.9



#14

Allyl chloride

Concen: 2.721 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

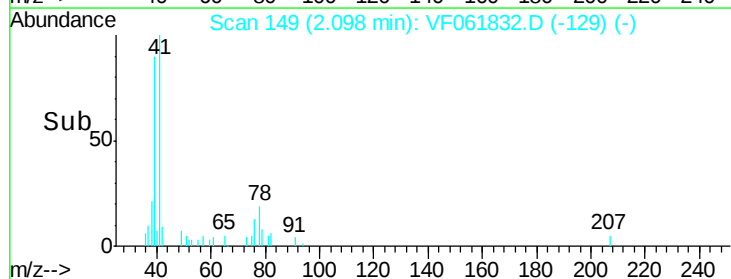
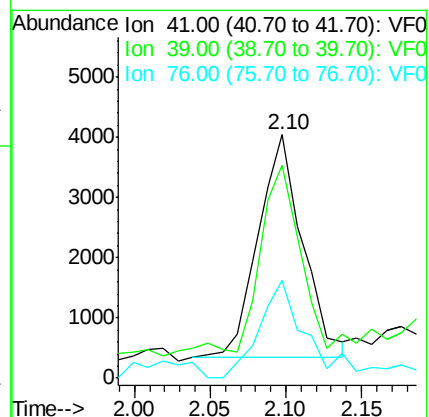
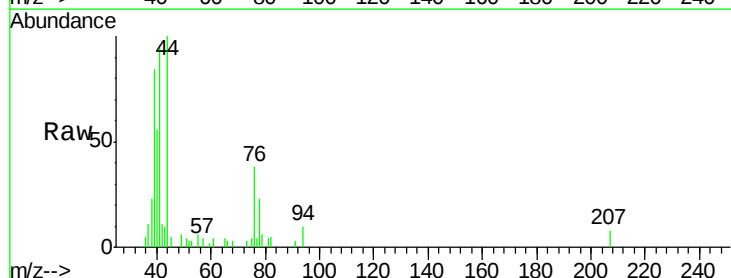
Tgt Ion: 41 Resp: 7536

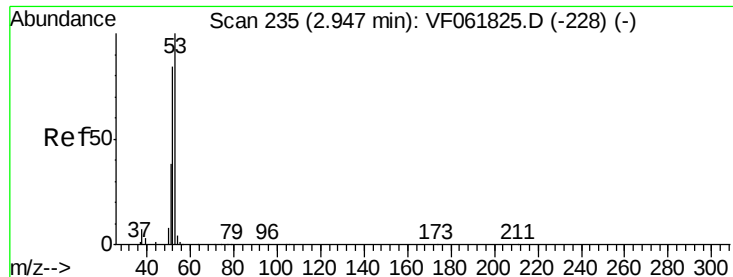
Ion Ratio Lower Upper

41 100

39 87.3 59.6 89.4

76 40.2 32.3 48.5





#15

Acrylonitrile

Concen: 20.415 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

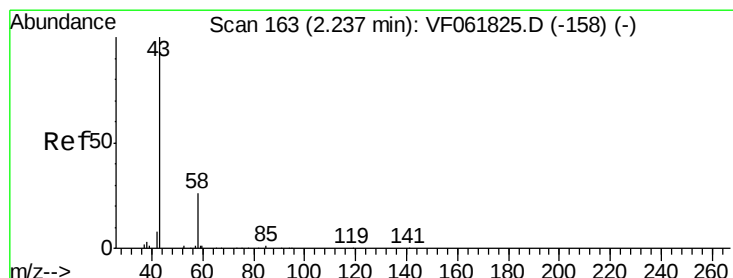
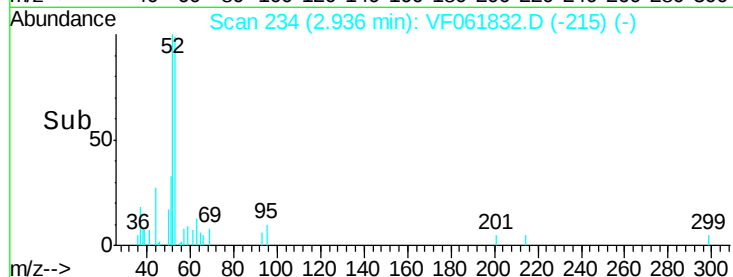
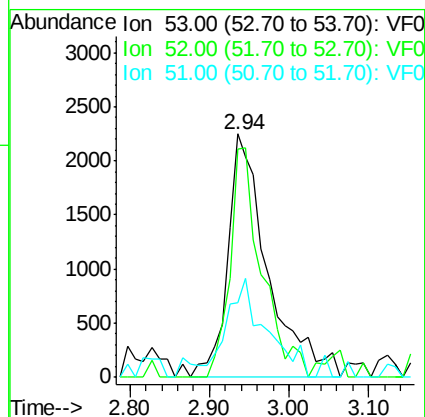
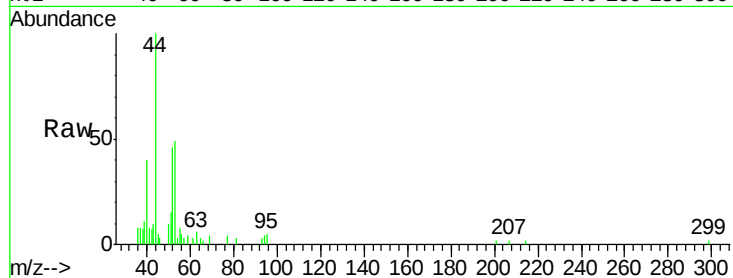
Tot Ion: 53 Resp: 7899

Ion Ratio Lower Upper

53 100

52 93.6 67.4 101.0

51 30.5 30.7 46.1#



#16

Acetone

Concen: 19.736 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061832.D

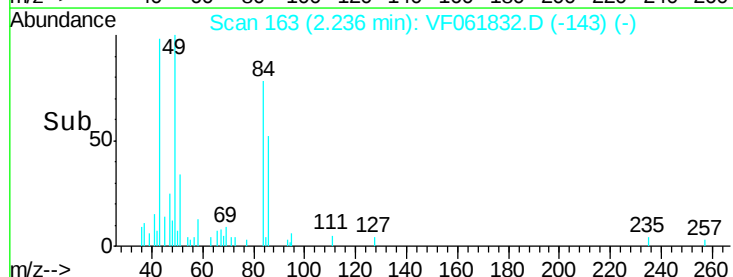
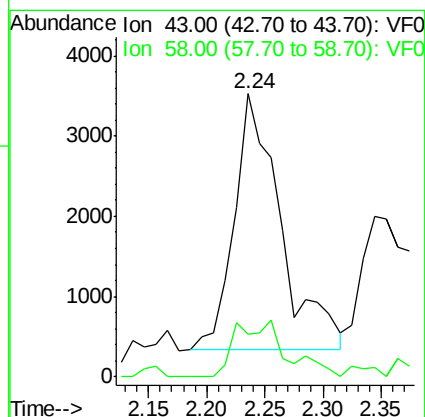
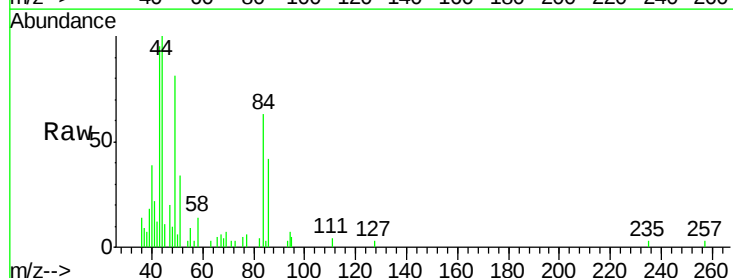
Acq: 4 Mar 2019 21:48

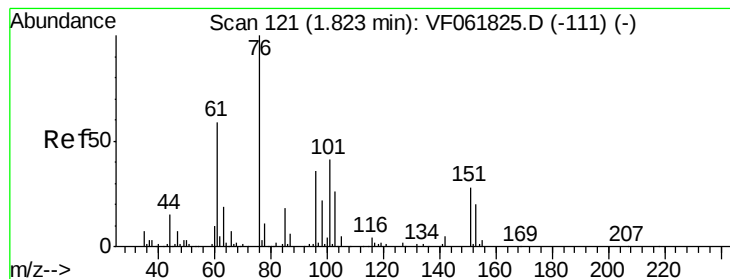
Tgt Ion: 43 Resp: 8850

Ion Ratio Lower Upper

43 100

58 15.1 20.3 30.5#





#17

Carbon Disulfide

Concen: 3.144 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

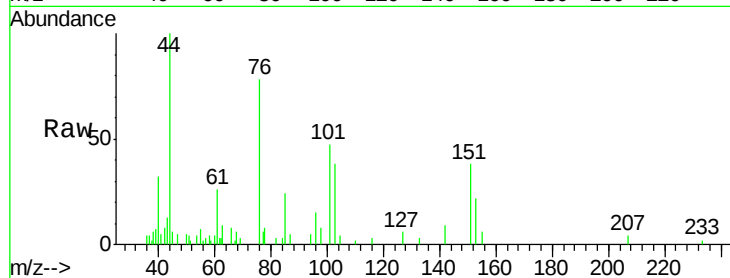
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 76 Resp: 24608

Ion Ratio Lower Upper

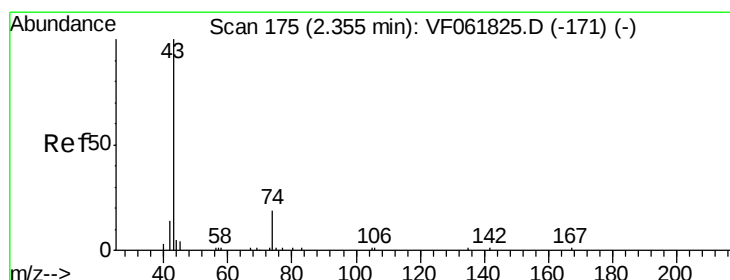
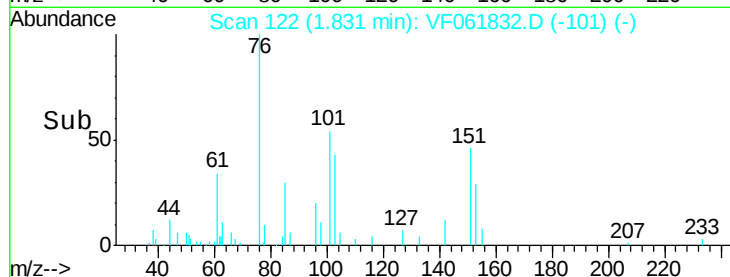
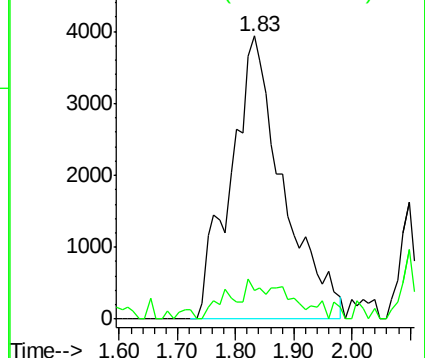
76 100

78 10.2 9.1 13.7



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.34 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061832.D

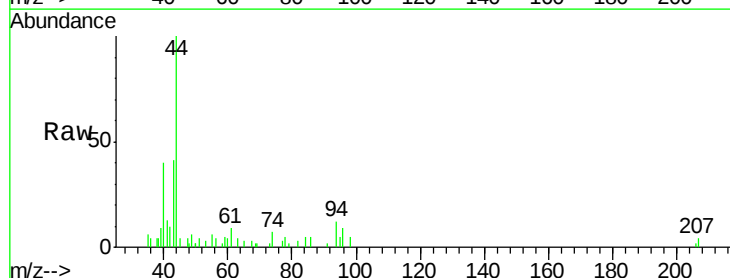
Acq: 4 Mar 2019 21:48

Tgt Ion: 43 Resp: 3997

Ion Ratio Lower Upper

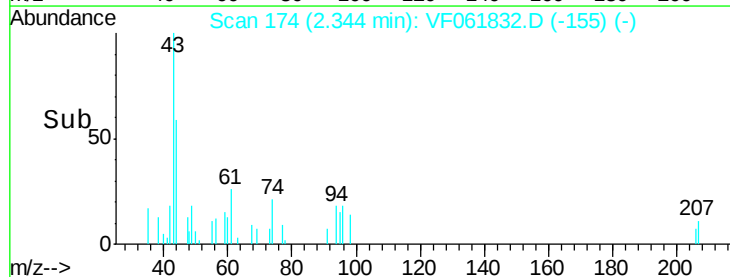
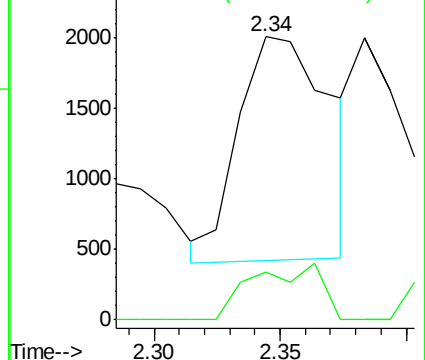
43 100

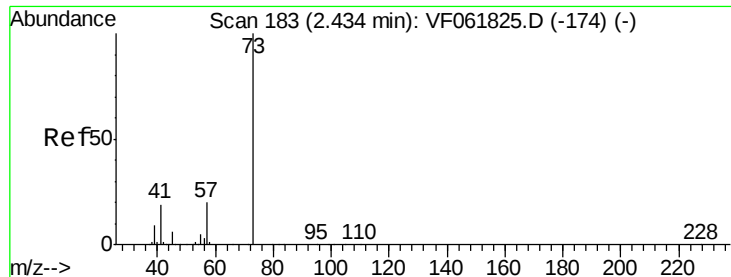
74 17.1 13.2 19.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



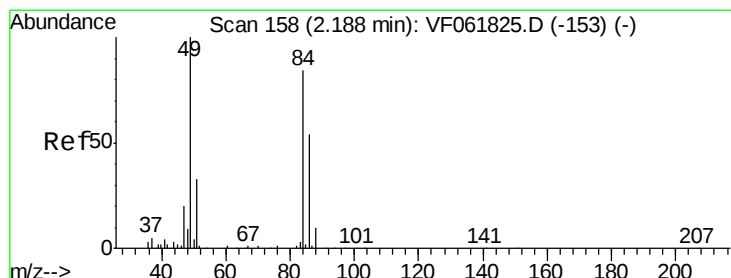
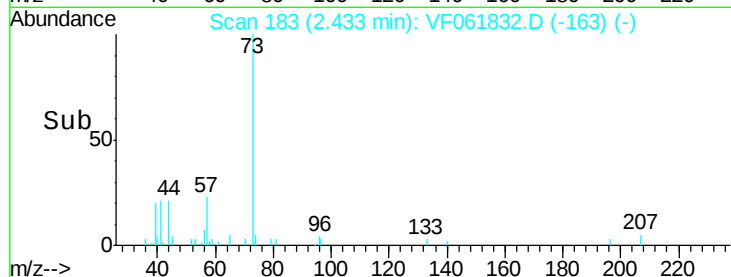
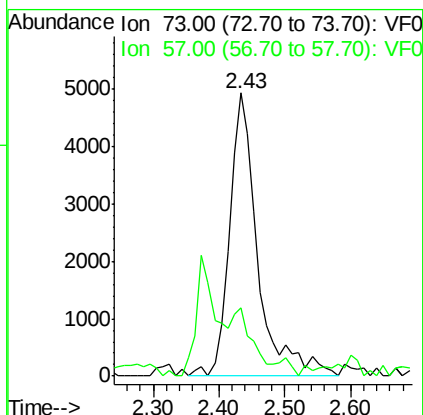
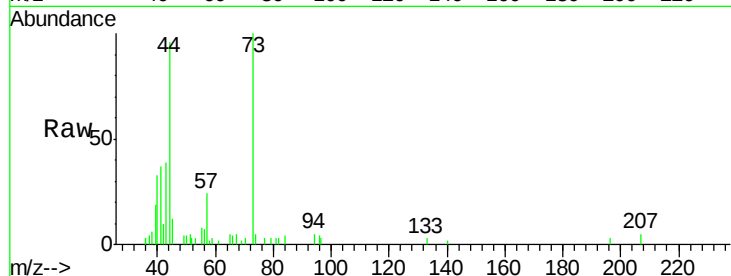


#19

Methyl tert-butyl Ether
 Concen: 3.485 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

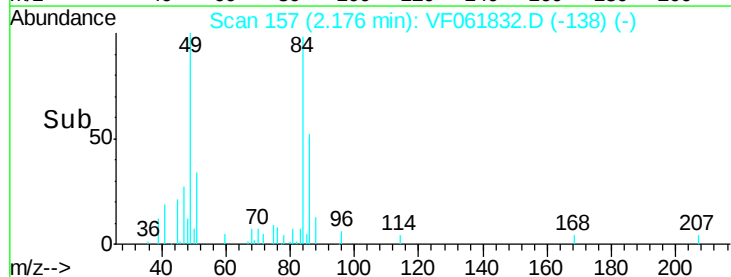
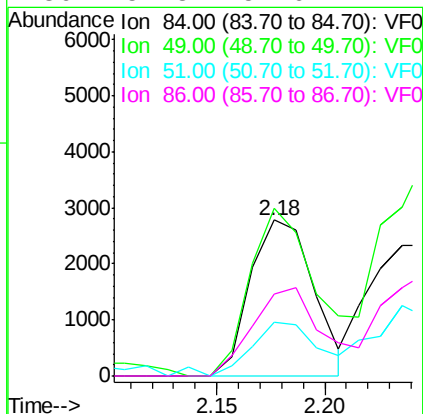
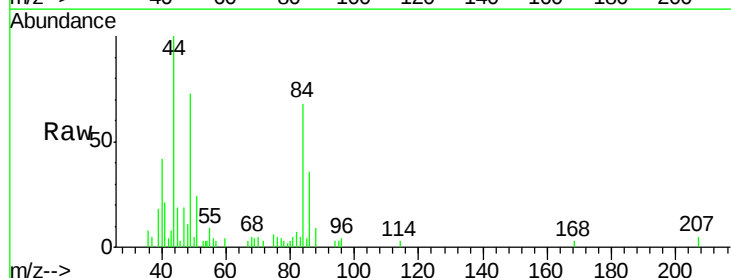
Tot Ion: 73 Resp: 14820
 Ion Ratio Lower Upper
 73 100
 57 24.3 16.1 24.1#

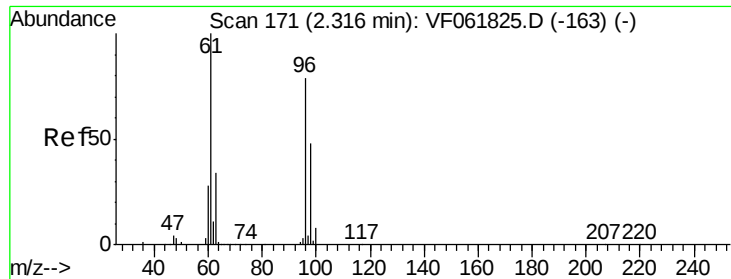


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.18 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion: 84 Resp: 5654
 Ion Ratio Lower Upper
 84 100
 49 107.6 96.8 145.2
 51 34.8 31.8 47.6
 86 52.8 51.6 77.4

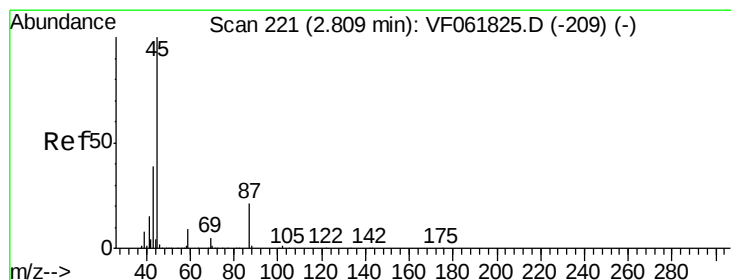
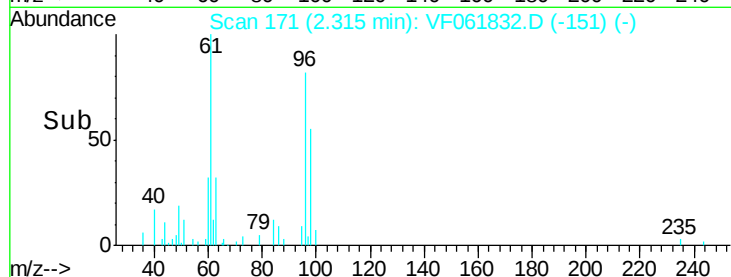
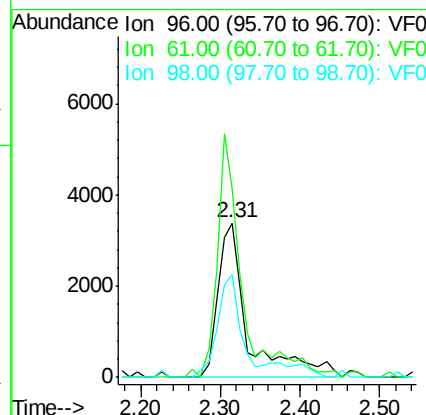
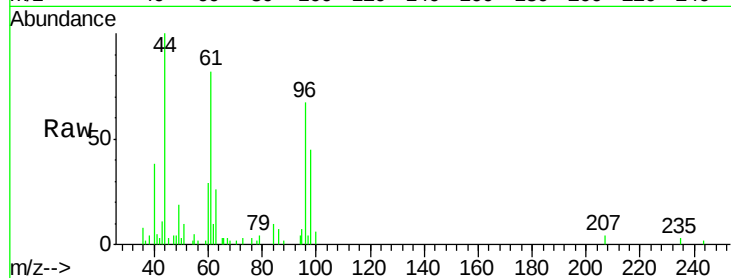




#21
trans-1,2-Dichloroethene
Concen: 3.775 ug/l
RT: 2.31 min Scan# 171
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

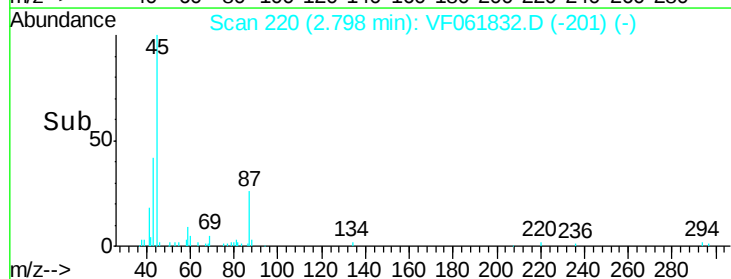
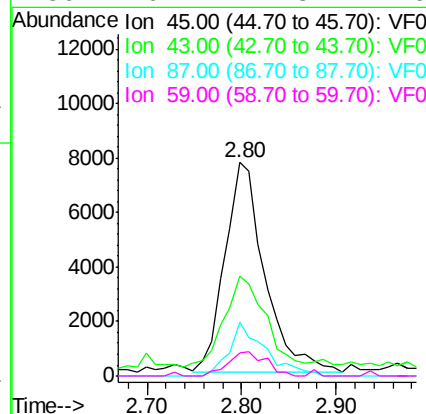
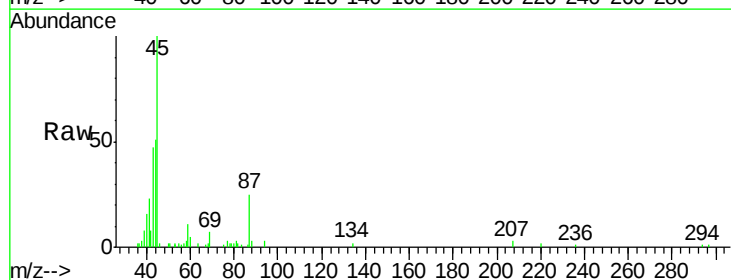
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

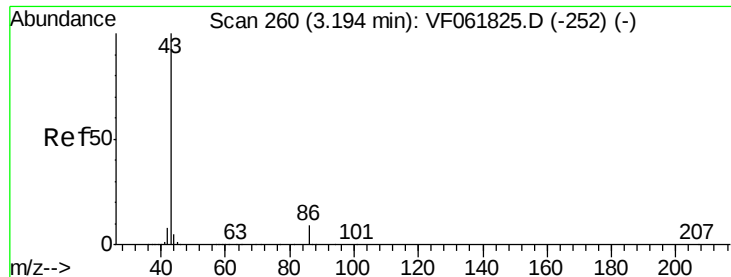
Tot Ion: 96 Resp: 8932
Ion Ratio Lower Upper
96 100
61 122.1 101.0 151.6
98 66.9 48.8 73.2



#22
Diisopropyl ether
Concen: 3.149 ug/l
RT: 2.80 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 45 Resp: 22684
Ion Ratio Lower Upper
45 100
43 46.6 31.8 47.8
87 25.0 17.1 25.7
59 10.7 7.8 11.6





#23

Vinyl Acetate

Concen: 15.144 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

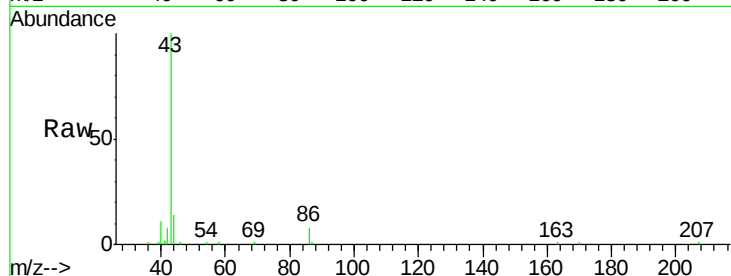
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 48743

Ion Ratio Lower Upper

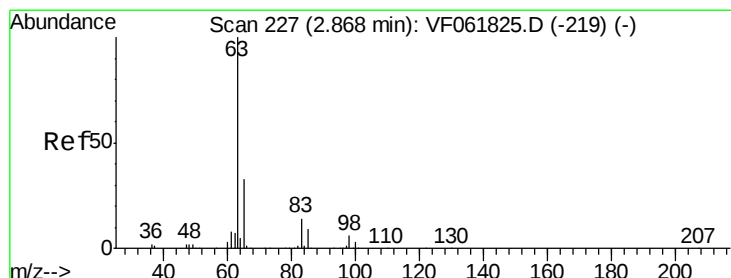
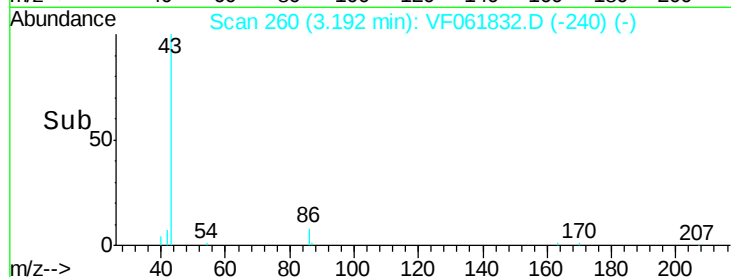
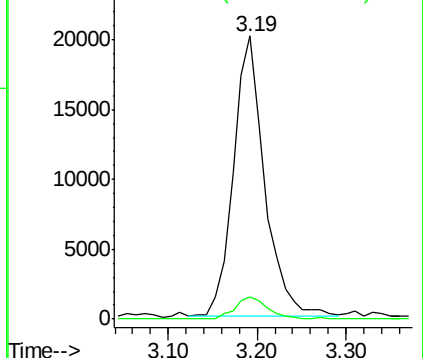
43 100

86 7.7 7.0 10.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 3.105 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

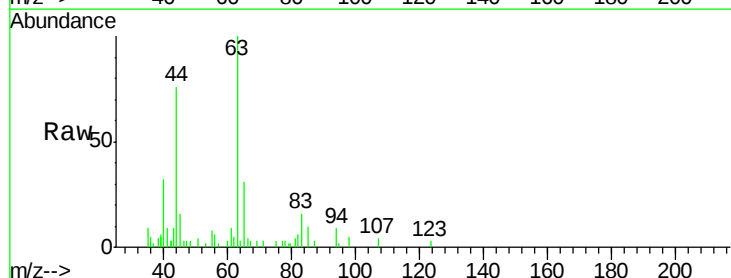
Tgt Ion: 63 Resp: 13373

Ion Ratio Lower Upper

63 100

98 5.0 2.9 8.6

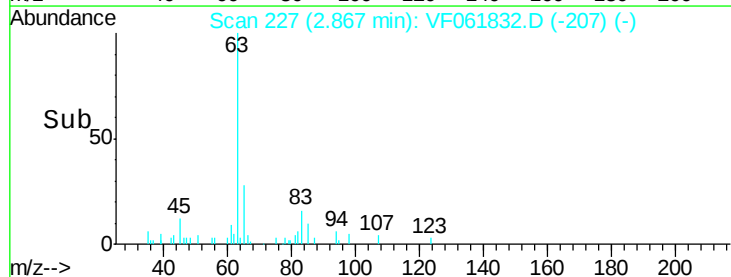
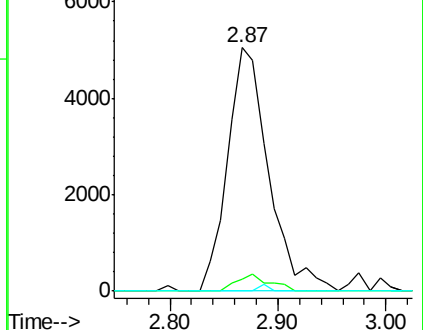
100 0.0 1.8 5.3#

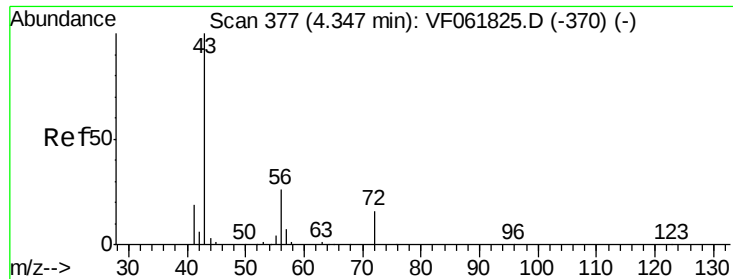


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 18.004 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

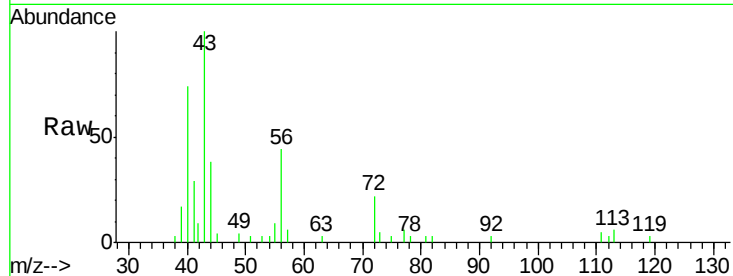
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 16422

Ion Ratio Lower Upper

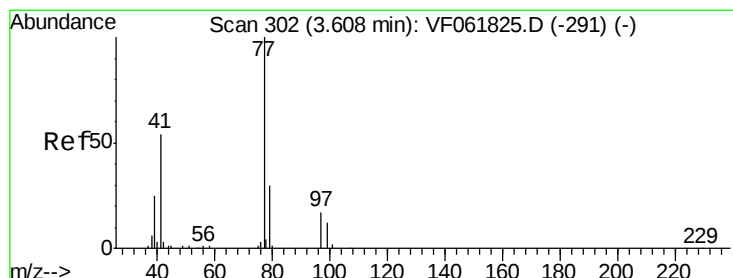
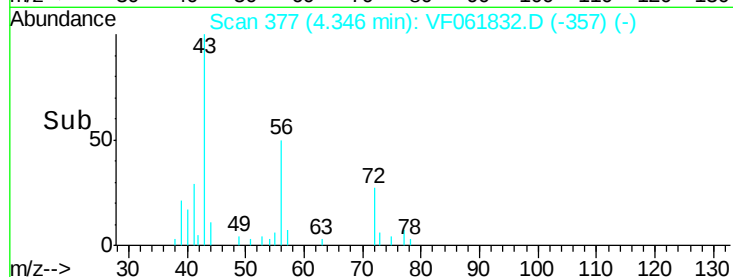
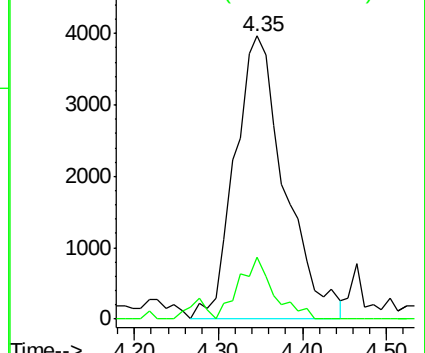
43 100

72 21.8 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 2.749 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.00 min

Lab File: VF061832.D

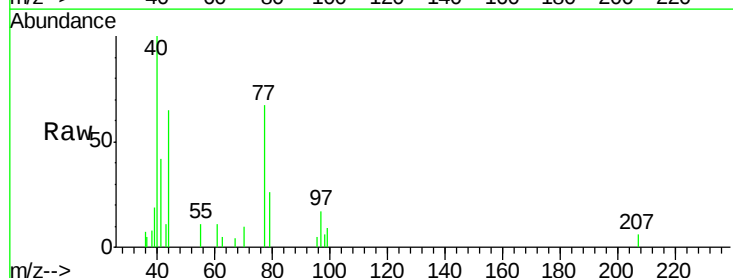
Acq: 4 Mar 2019 21:48

Tgt Ion: 77 Resp: 5285

Ion Ratio Lower Upper

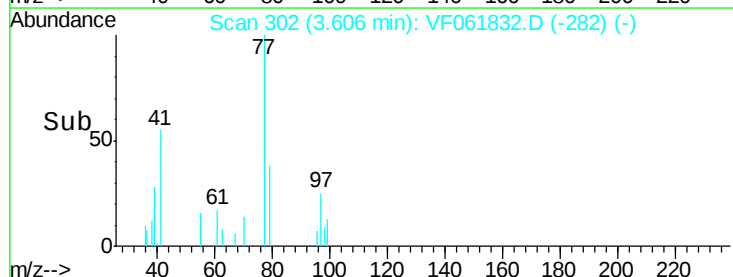
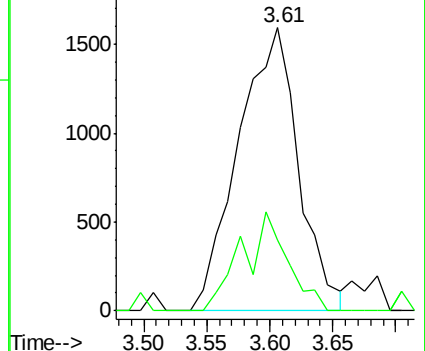
77 100

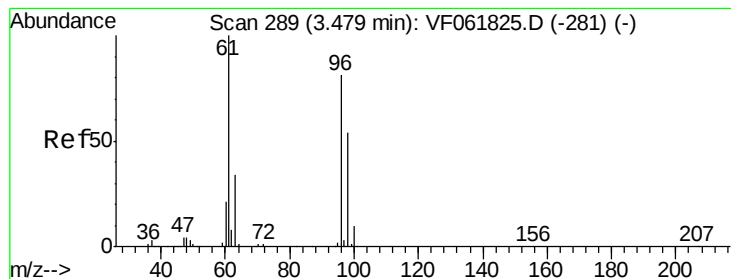
97 25.2 10.4 31.4



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: 3.479 ug/l

RT: 3.47 min Scan# 288

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

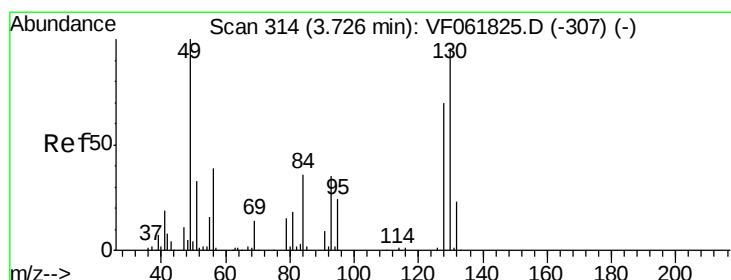
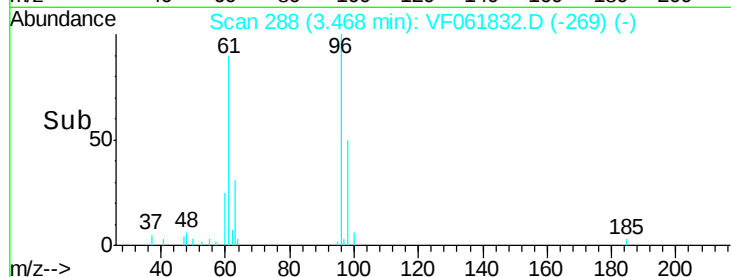
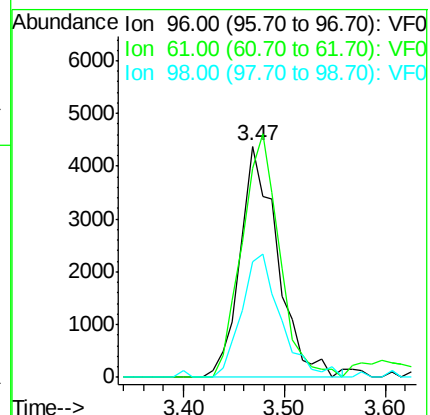
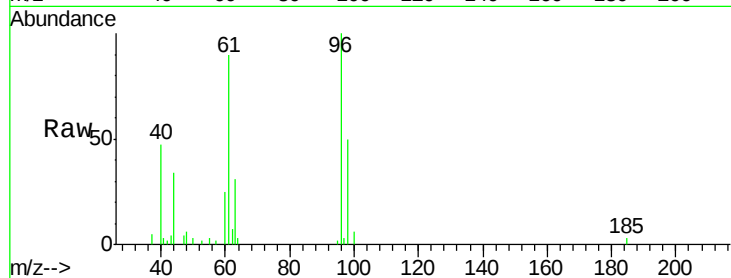
Tot Ion: 96 Resp: 11405

Ion Ratio Lower Upper

96 100

61 90.3 0.0 245.8

98 50.1 0.0 132.6



#28

Bromochloromethane

Concen: 3.077 ug/l

RT: 3.71 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

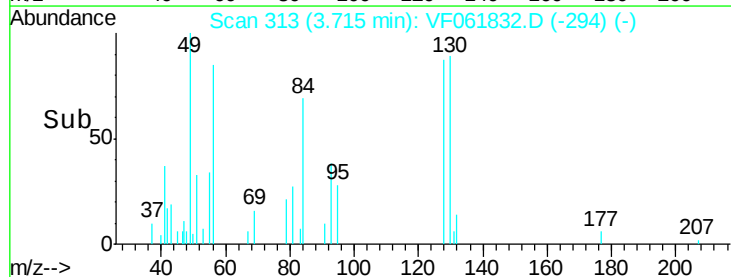
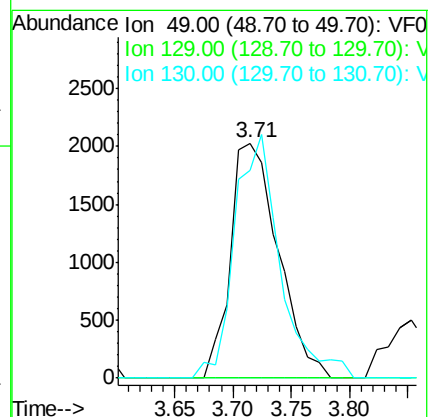
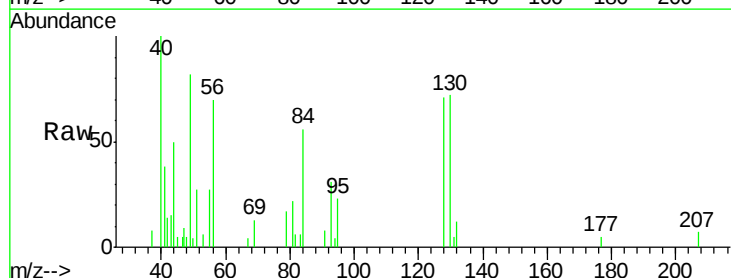
Tgt Ion: 49 Resp: 5776

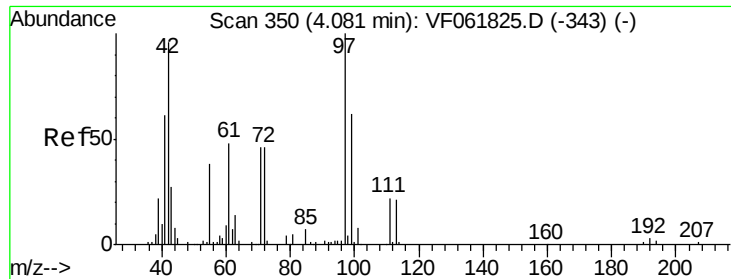
Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

130 84.3 76.9 115.3

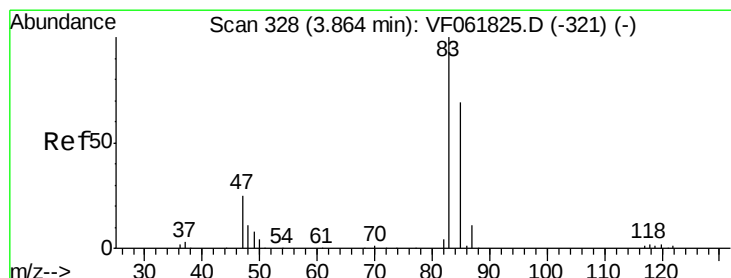
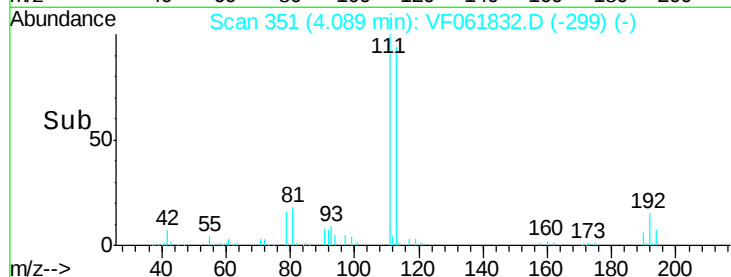
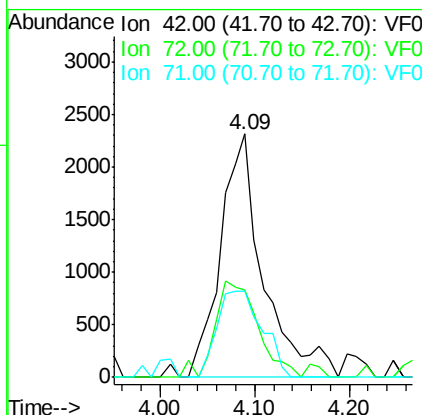
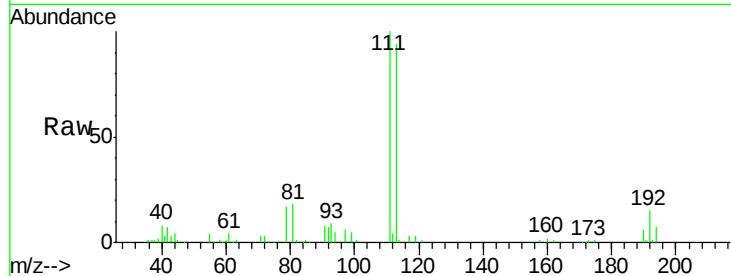




#29
Tetrahydrofuran
Concen: 18.440 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

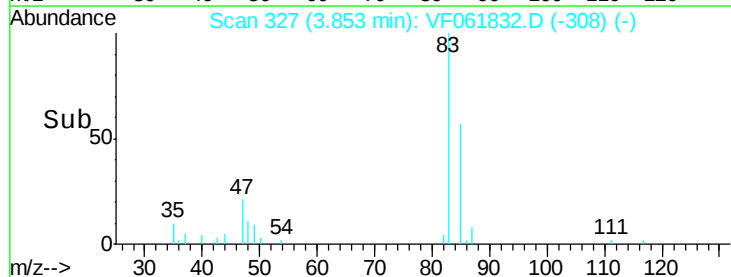
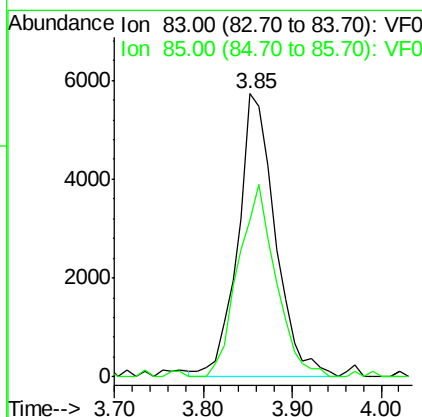
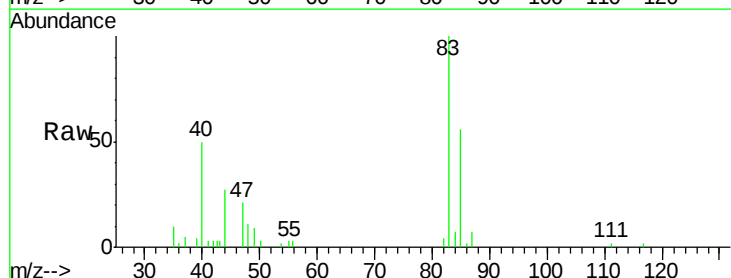
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

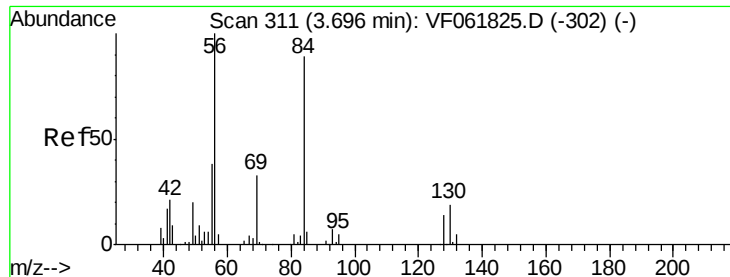
Tot Ion: 42 Resp: 7254
Ion Ratio Lower Upper
42 100
72 39.6 34.4 51.6
71 37.7 34.6 52.0



#30
Chloroform
Concen: 3.386 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 83 Resp: 16657
Ion Ratio Lower Upper
83 100
85 55.5 55.3 82.9

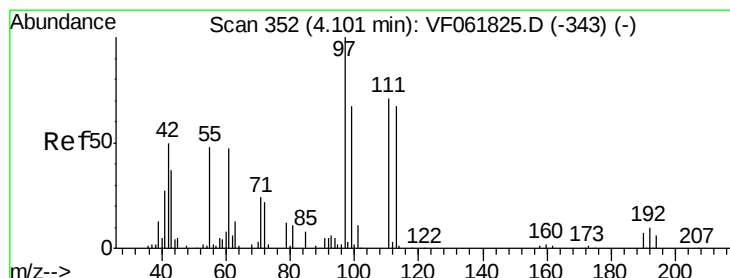
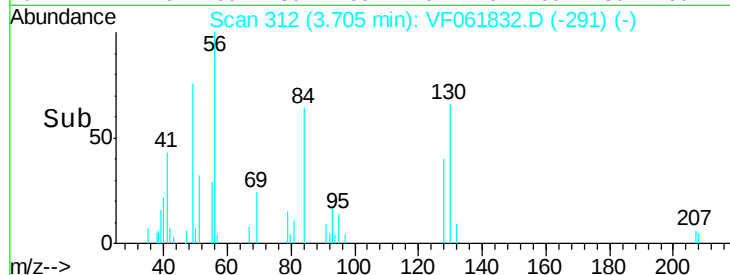
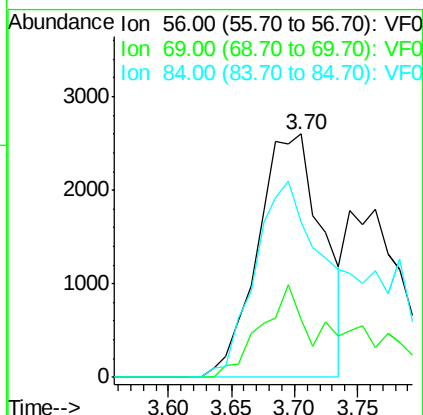
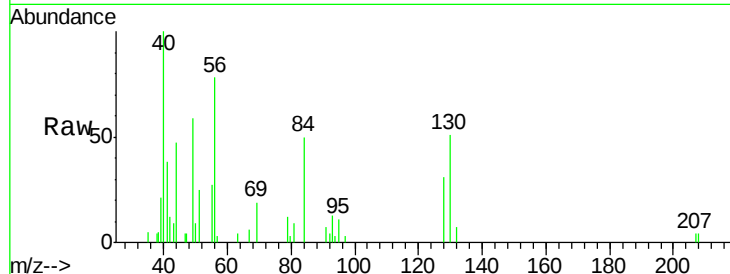




#31
Cyclohexane
Concen: 2.068 ug/l
RT: 3.70 min Scan# 312
Delta R.T. 0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

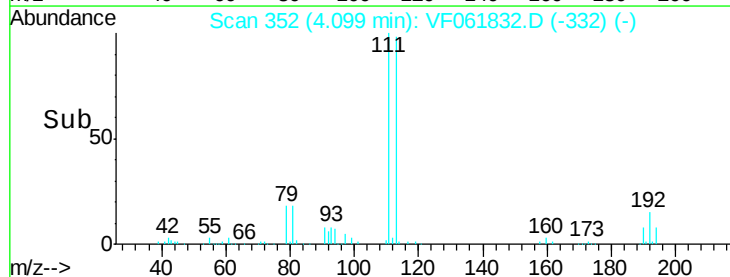
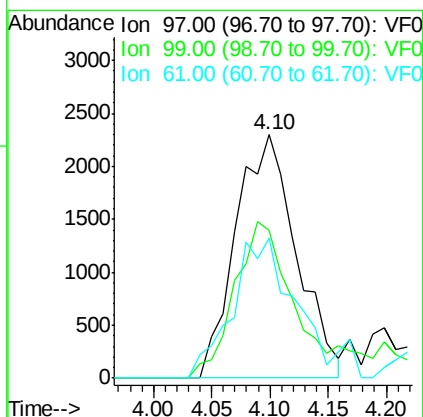
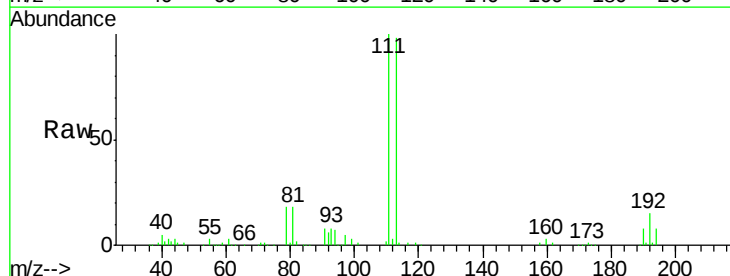
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

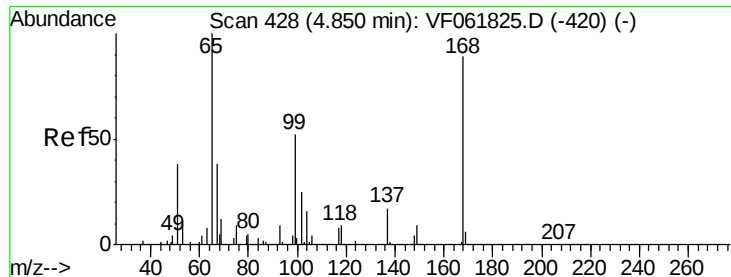
Tot Ion: 56 Resp: 9326
Ion Ratio Lower Upper
56 100
69 23.9 26.0 39.0#
84 63.9 71.0 106.6#



#32
1,1,1-Trichloroethane
Concen: 2.739 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 97 Resp: 8303
Ion Ratio Lower Upper
97 100
99 60.6 53.8 80.8
61 57.5 37.9 56.9#





#33

1,2-Dichloroethane-d4

Concen: 59.086 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

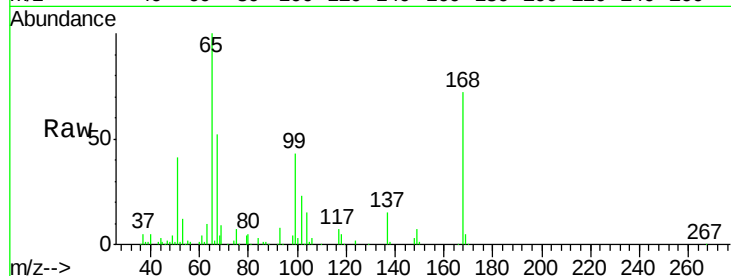
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 65 Resp: 126489

Ion Ratio Lower Upper

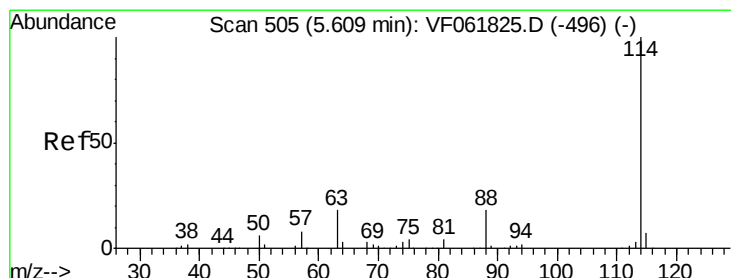
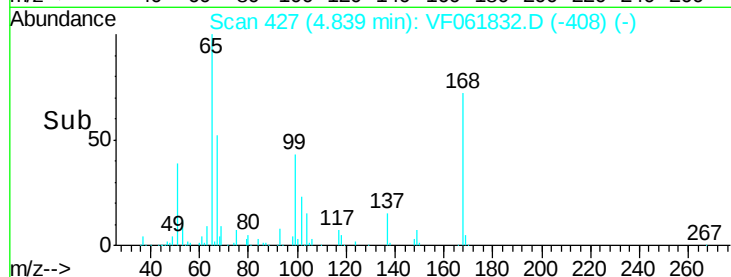
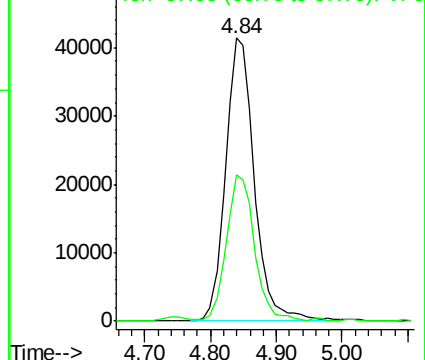
65 100

67 51.9 0.0 108.6



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: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

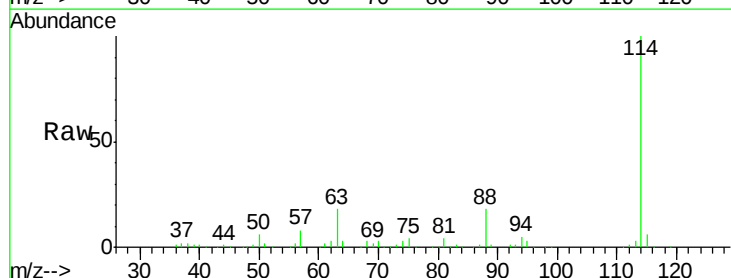
Tgt Ion: 114 Resp: 483620

Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.6

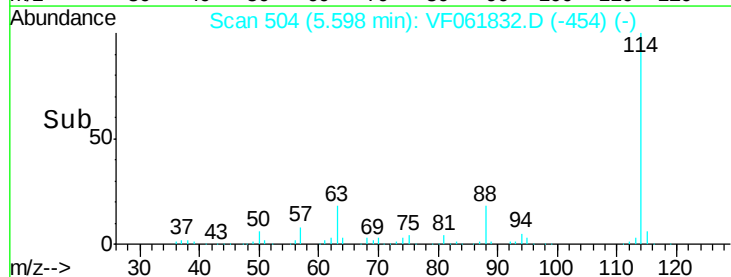
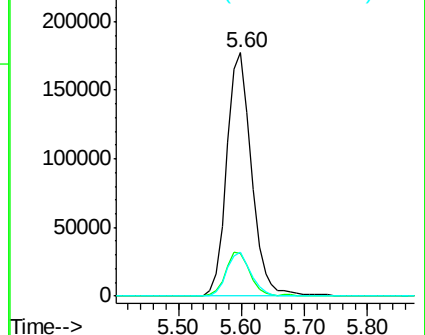
88 17.8 0.0 35.6

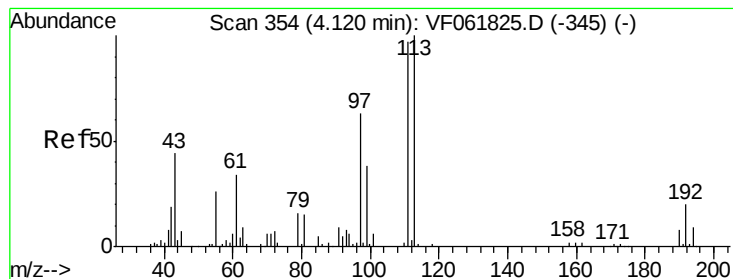


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 55.201 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

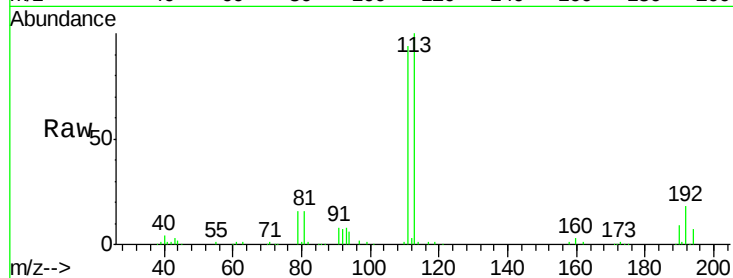
Tot Ion:113 Resp: 186306

Ion Ratio Lower Upper

113 100

111 94.1 77.6 116.4

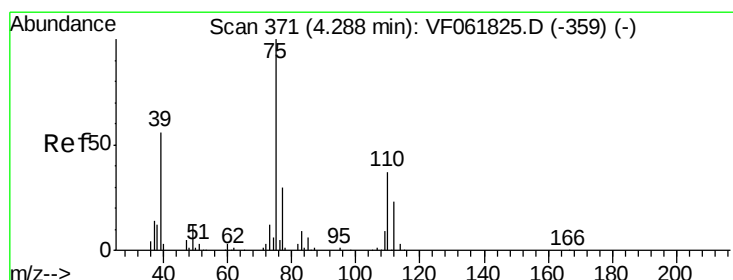
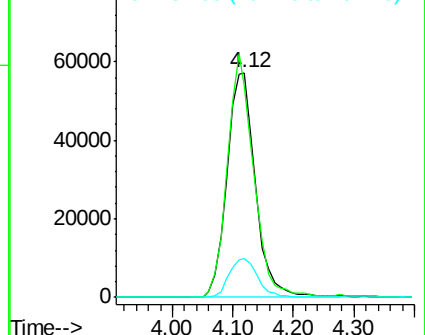
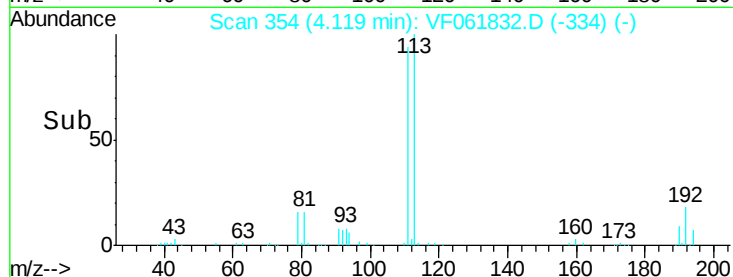
192 17.5 15.9 23.9



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 3.015 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

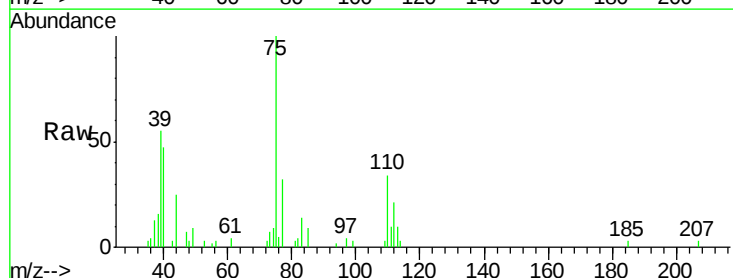
Tgt Ion: 75 Resp: 13772

Ion Ratio Lower Upper

75 100

110 34.3 18.6 55.6

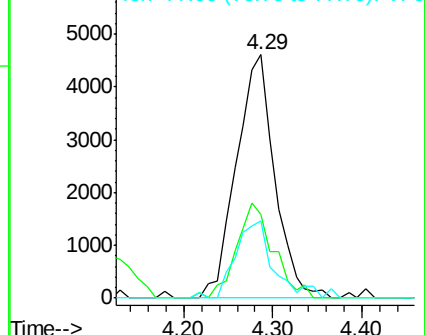
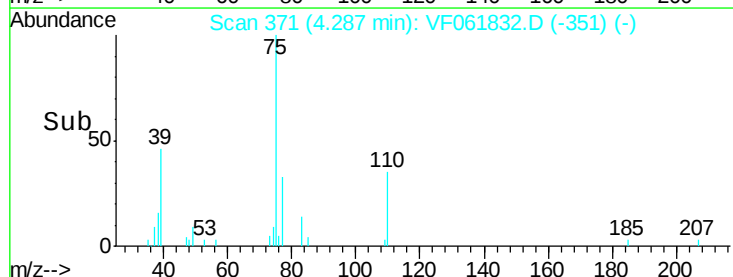
77 31.8 24.2 36.2

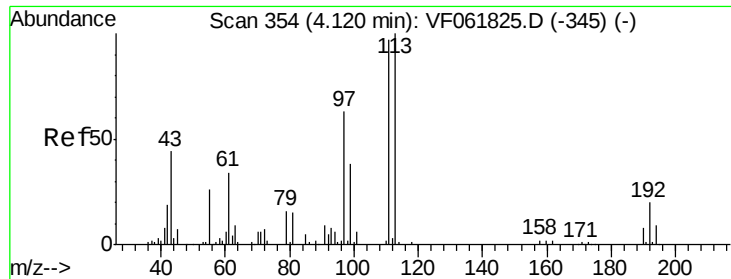


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

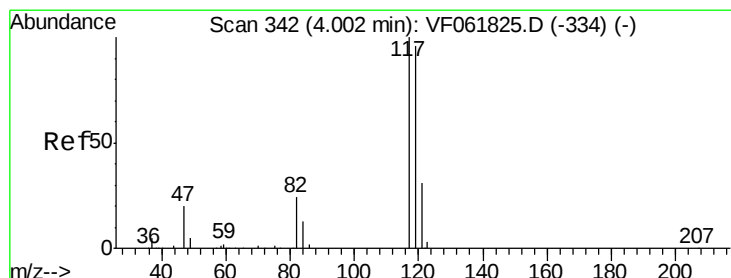
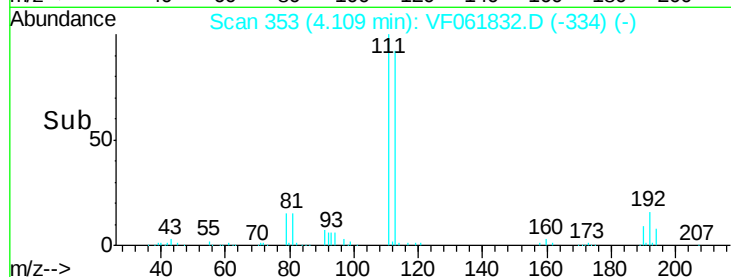
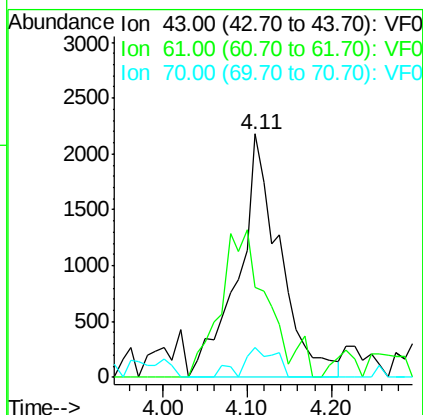
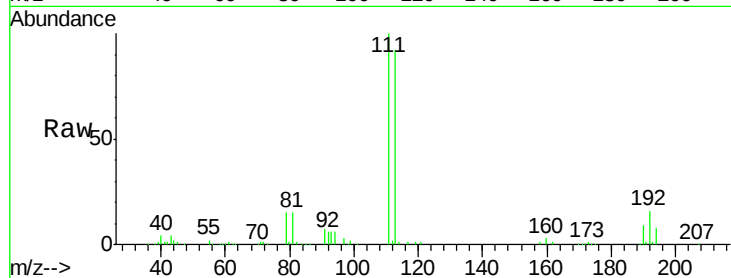




#37
Ethyl Acetate
Concen: 3.905 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

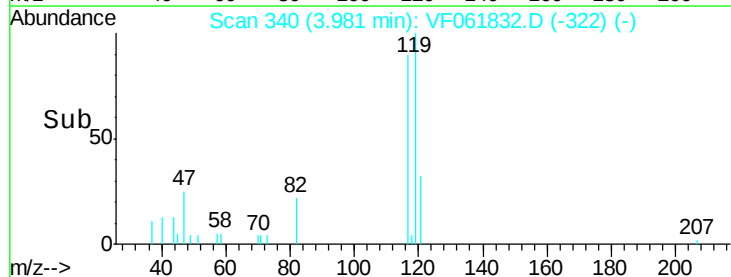
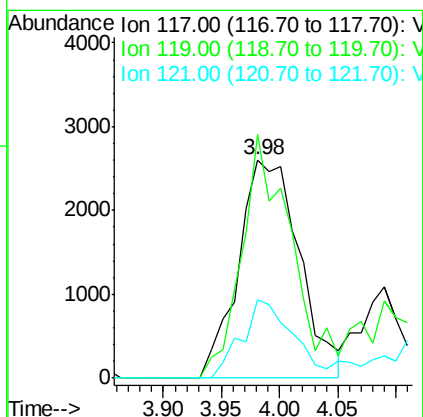
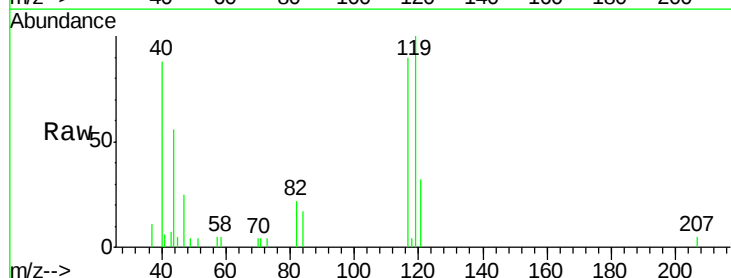
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

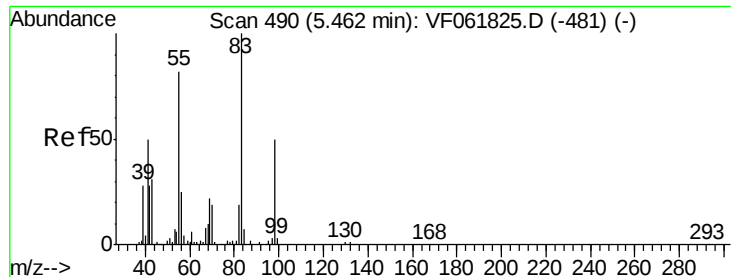
Tot Ion: 43 Resp: 7488
Ion Ratio Lower Upper
43 100
61 37.0 60.7 91.1#
70 12.2 10.6 15.8



#38
Carbon Tetrachloride
Concen: 2.927 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 117 Resp: 9466
Ion Ratio Lower Upper
117 100
119 111.5 76.6 114.8
121 36.1 24.4 36.6

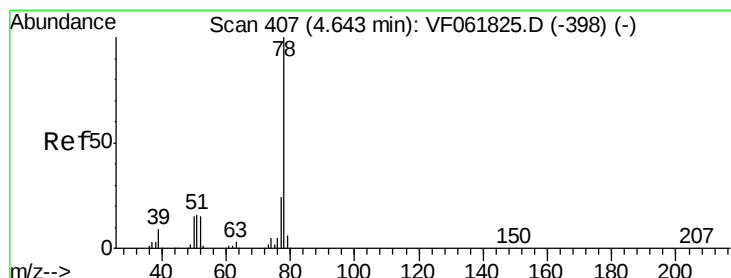
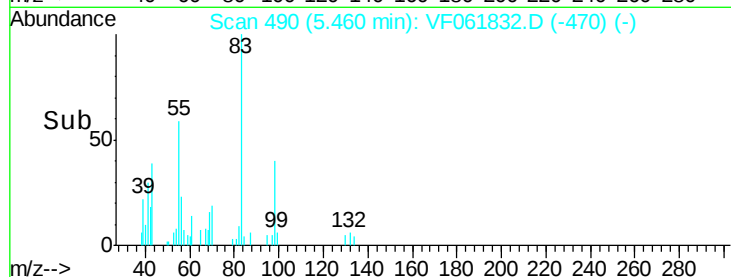
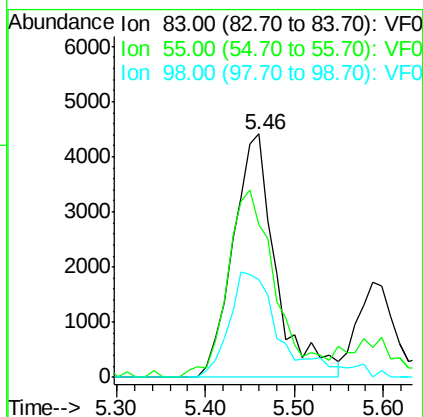
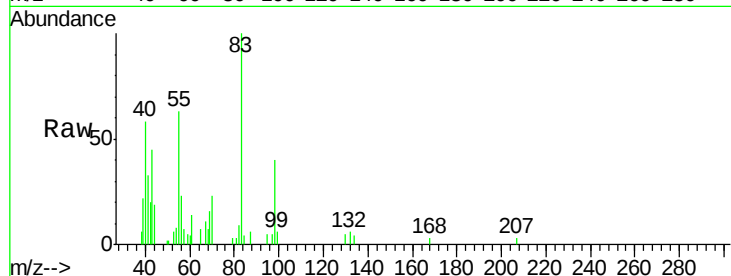




#39
Methvlcvclohexane
Concen: 2.735 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

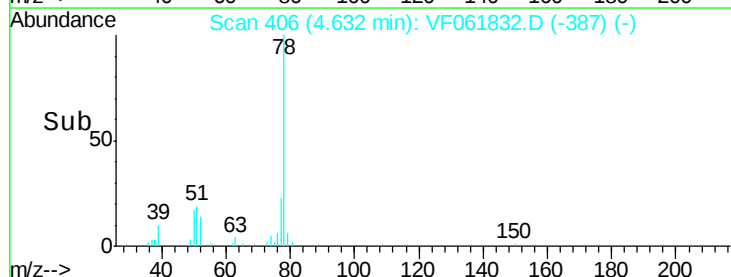
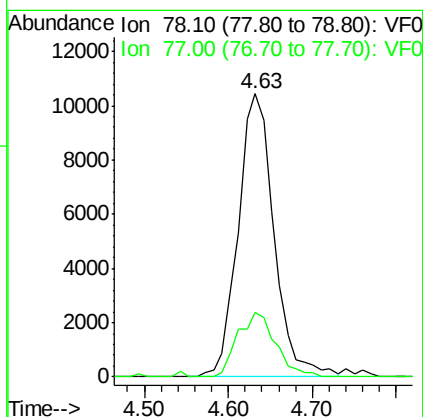
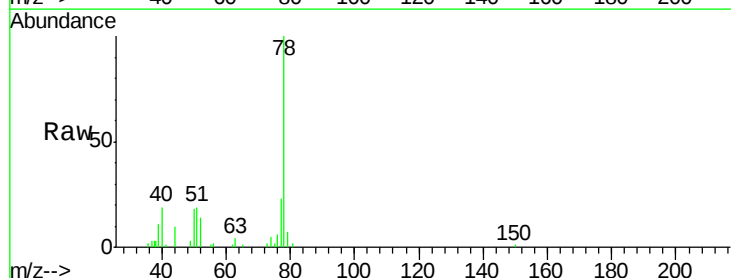
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

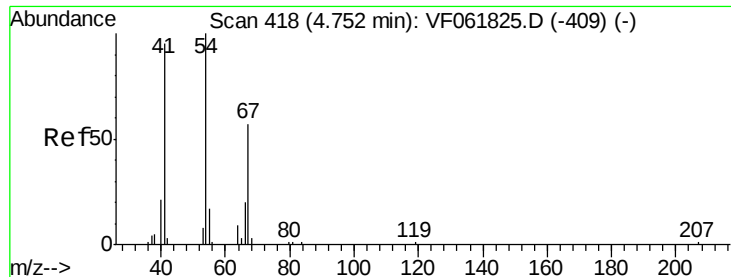
Tot Ion: 83 Resp: 14757
Ion Ratio Lower Upper
83 100
55 62.7 66.0 99.0#
98 40.2 39.8 59.6



#40
Benzene
Concen: 2.602 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 78 Resp: 31071
Ion Ratio Lower Upper
78 100
77 23.0 19.5 29.3

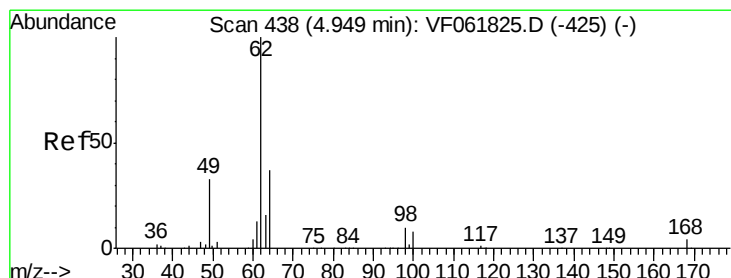
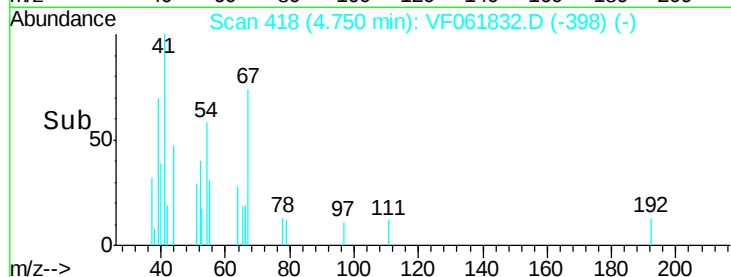
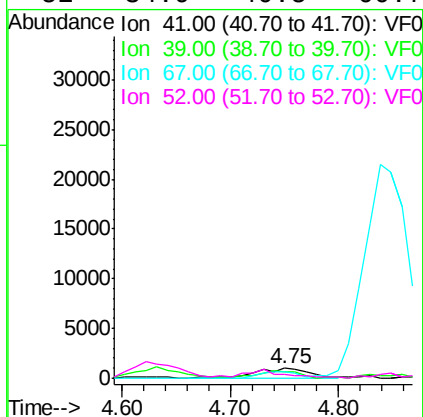
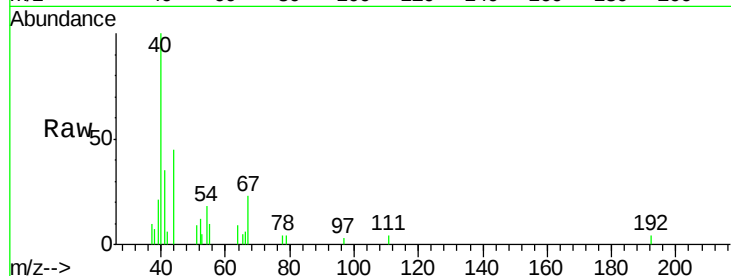




#41
Methacrylonitrile
Concen: 3.471 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

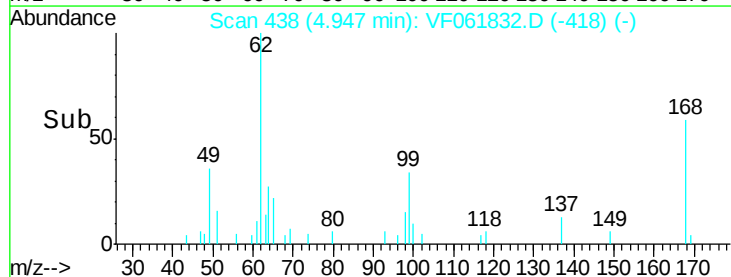
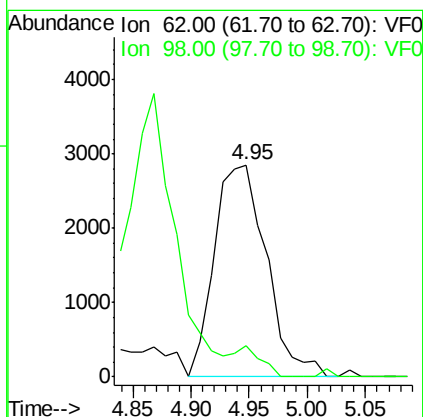
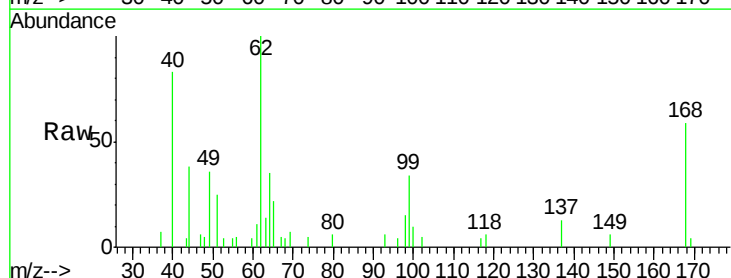
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

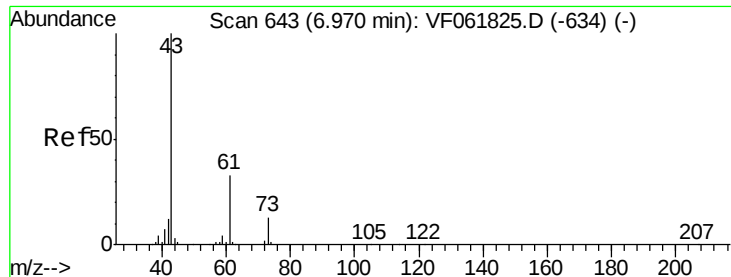
Tot Ion: 41 Resp: 3646
Ion Ratio Lower Upper
41 100
39 61.1 43.0 64.6
67 64.6 47.8 71.8
52 34.9 40.5 60.7#



#42
1,2-Dichloroethane
Concen: 2.965 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 62 Resp: 8822
Ion Ratio Lower Upper
62 100
98 15.0 0.0 21.0





#43

Isopropyl Acetate

Concen: 3.076 ug/l

RT: 6.97 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

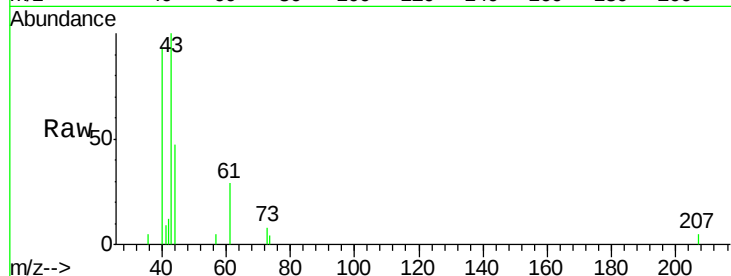
Tot Ion: 43 Resp: 7270

Ion Ratio Lower Upper

43 100

61 28.9 26.1 39.1

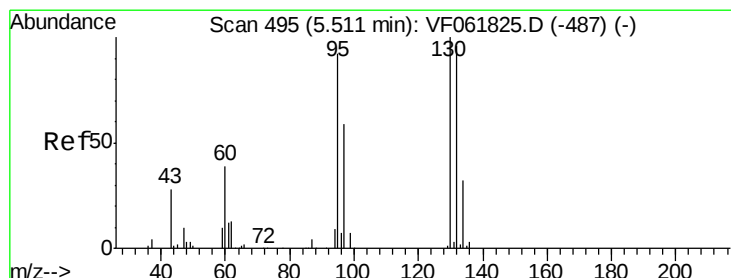
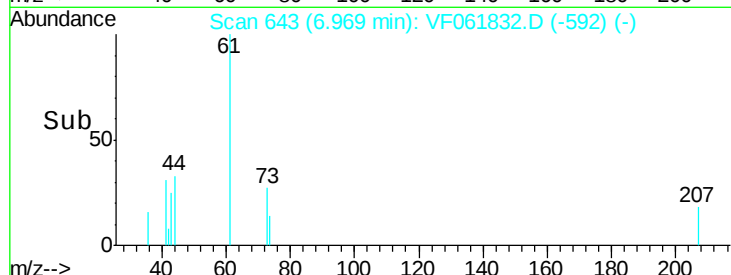
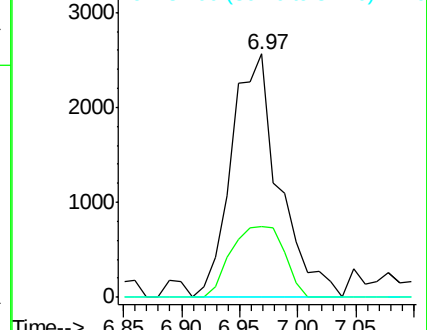
87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 2.731 ug/l

RT: 5.50 min Scan# 494

Delta R.T. -0.01 min

Lab File: VF061832.D

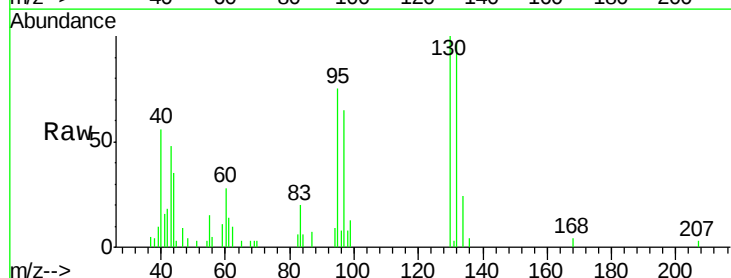
Acq: 4 Mar 2019 21:48

Tgt Ion:130 Resp: 10136

Ion Ratio Lower Upper

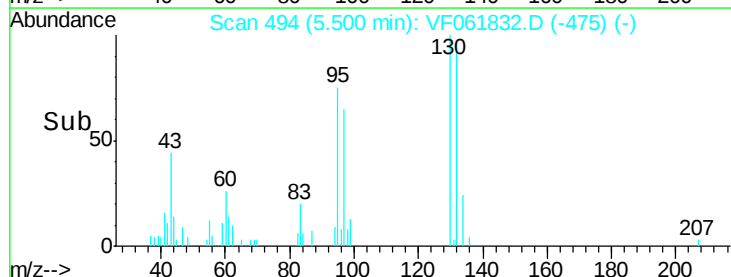
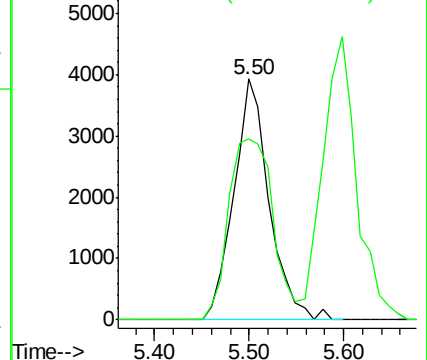
130 100

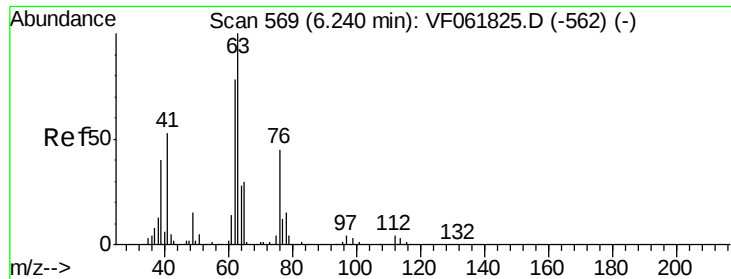
95 75.2 0.0 184.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 2.573 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

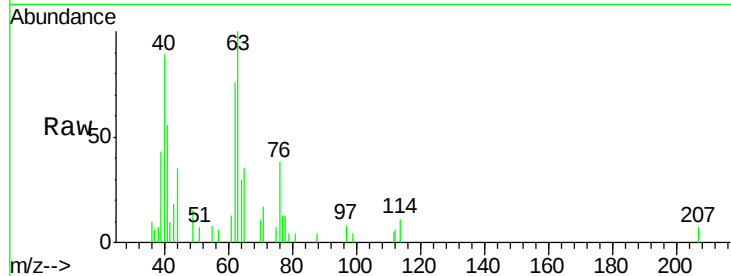
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 63 Resp: 7307

Ion Ratio Lower Upper

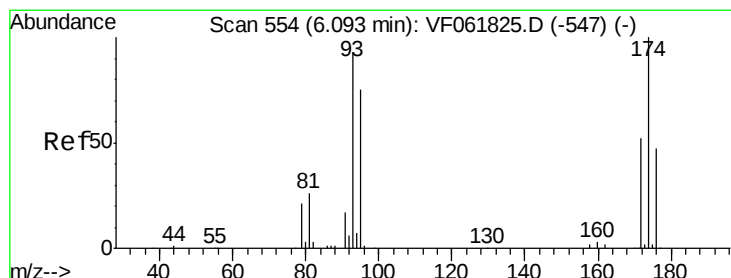
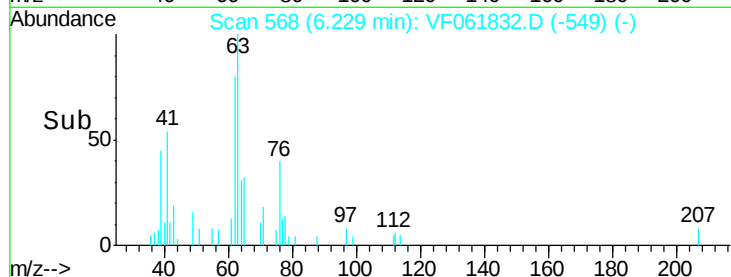
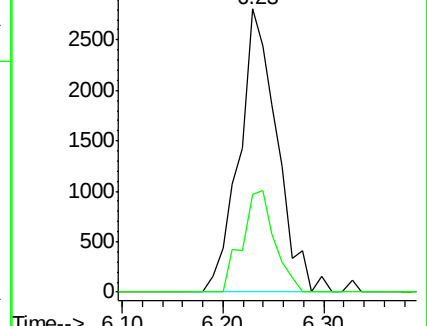
63 100

65 34.6 24.0 36.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 2.405 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

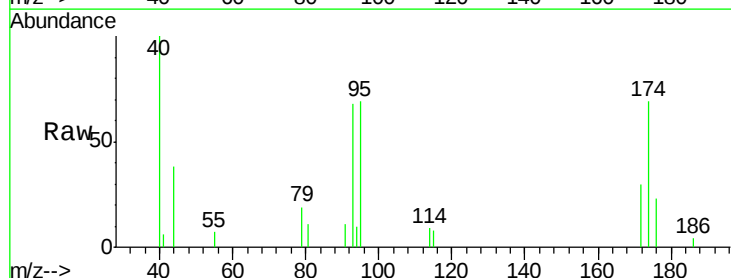
Tgt Ion: 93 Resp: 4298

Ion Ratio Lower Upper

93 100

95 101.1 64.4 96.6#

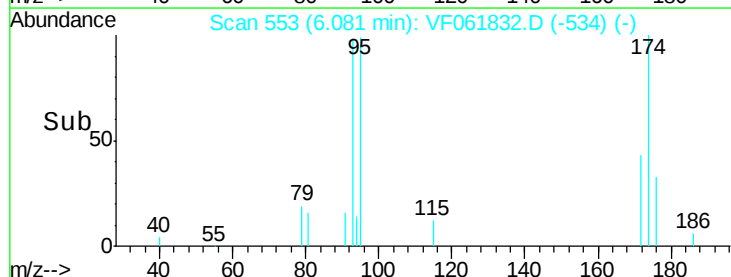
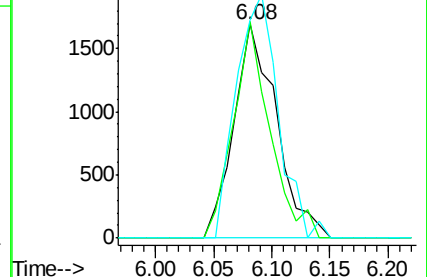
174 102.0 85.8 128.6

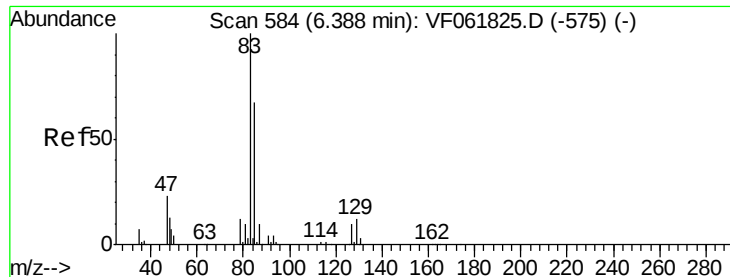


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 2.697 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

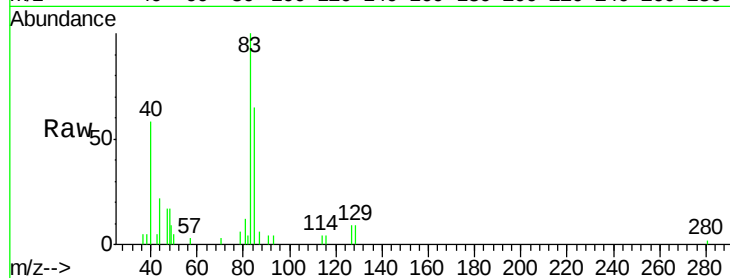
Tot Ion: 83 Resp: 10648

Ion Ratio Lower Upper

83 100

85 65.3 53.6 80.4

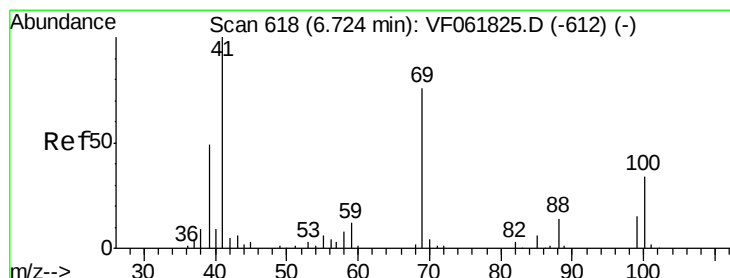
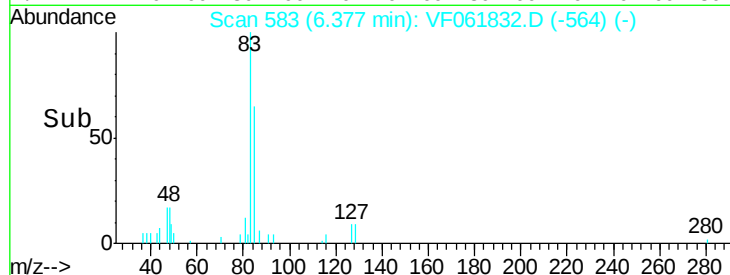
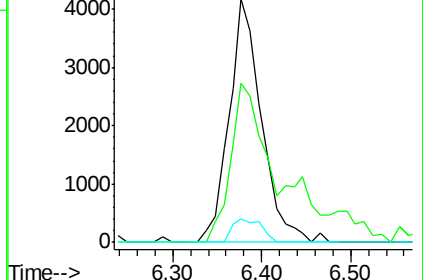
127 9.5 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): VF0



#48

Methyl methacrylate

Concen: 3.793 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

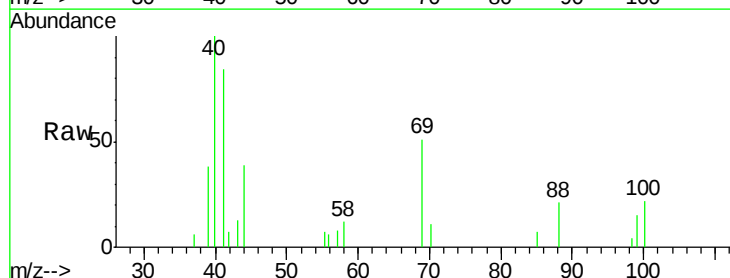
Tgt Ion: 41 Resp: 5674

Ion Ratio Lower Upper

41 100

69 61.4 60.4 90.6

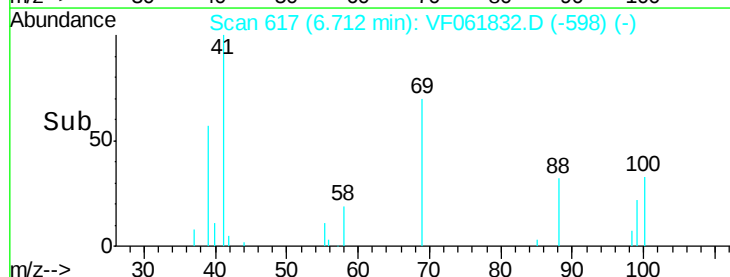
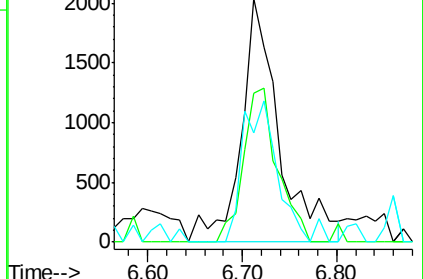
39 45.0 39.7 59.5



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

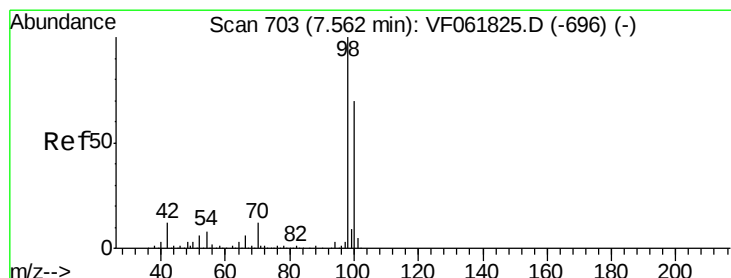
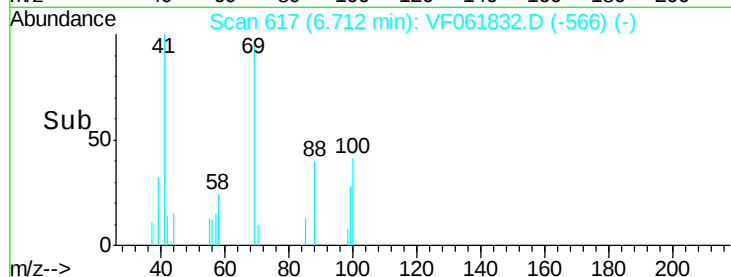
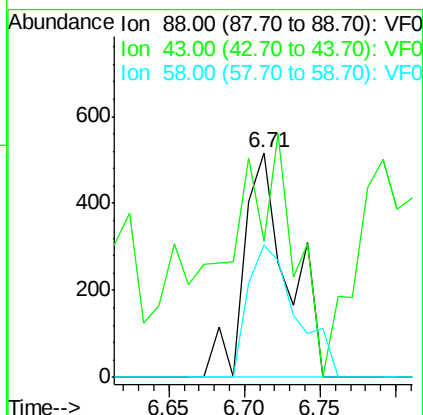
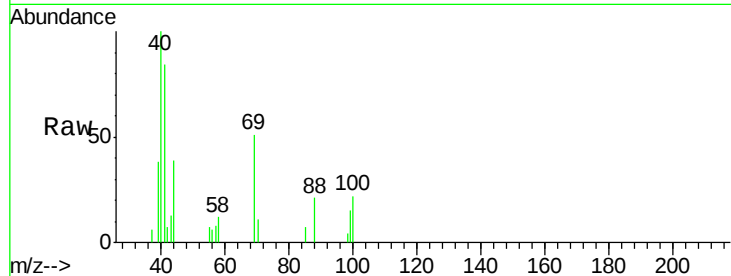




#49
1,4-Dioxane
Concen: 77.005 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

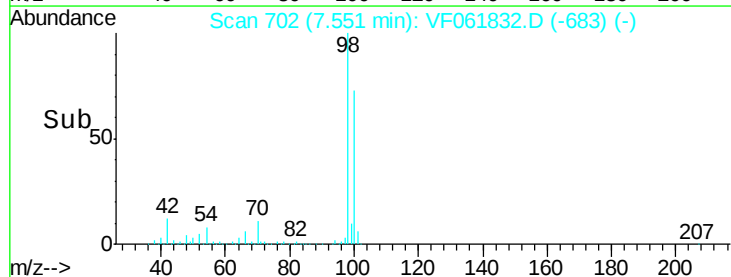
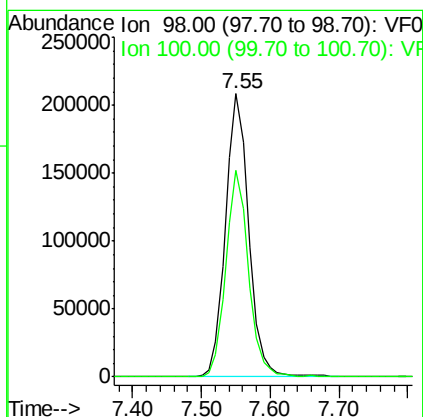
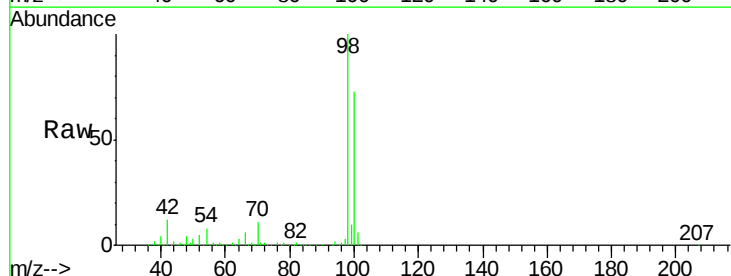
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

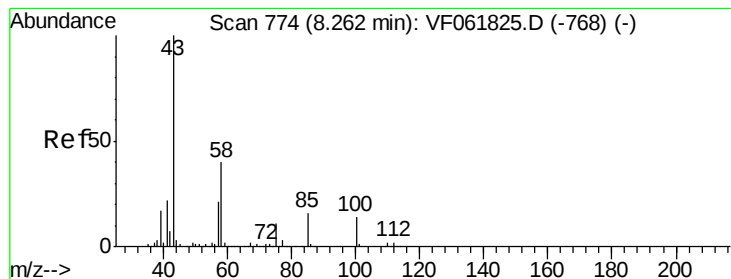
Tot Ion: 88 Resp: 1053
Ion Ratio Lower Upper
88 100
43 60.7 28.4 42.6#
58 59.0 50.7 76.1



#50
Toluene-d8
Concen: 48.803 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 98 Resp: 489574
Ion Ratio Lower Upper
98 100
100 73.0 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 16.047 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

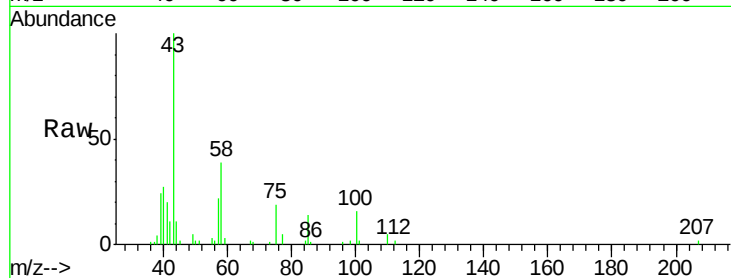
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 26214

Ion Ratio Lower Upper

43 100

58 39.3 31.8 47.8

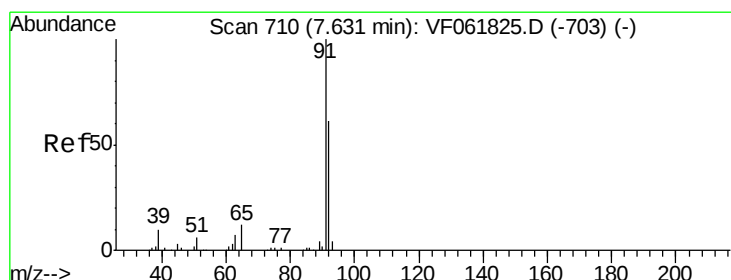
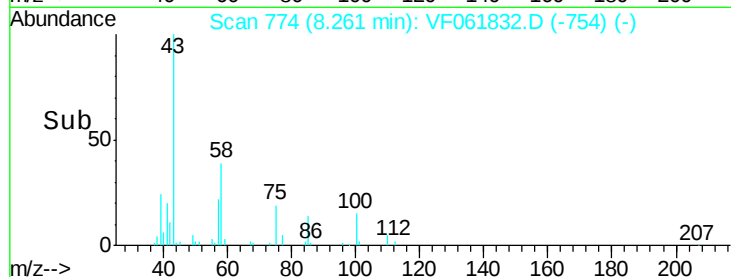


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

Time-->



#52

Toluene

Concen: 2.714 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061832.D

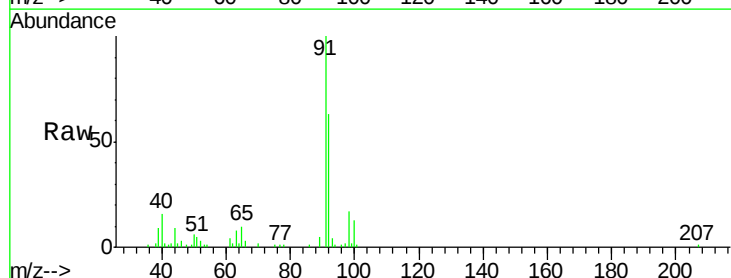
Acq: 4 Mar 2019 21:48

Tgt Ion: 92 Resp: 19173

Ion Ratio Lower Upper

92 100

91 159.9 132.0 198.0

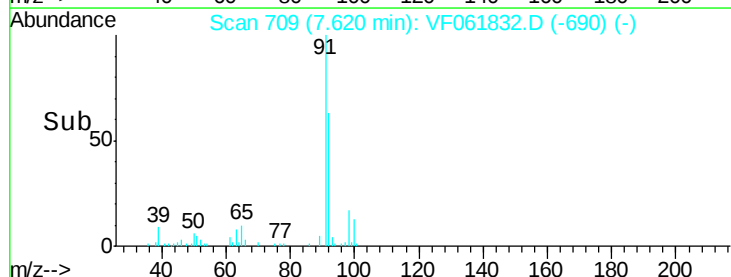


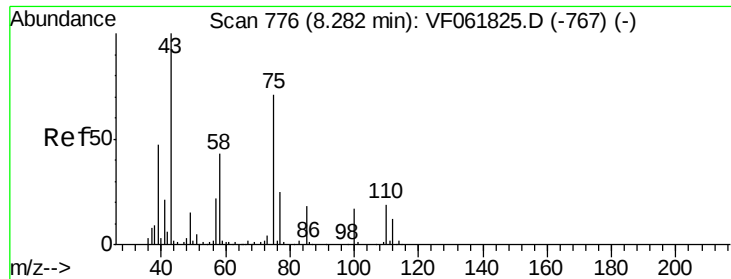
Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.590 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

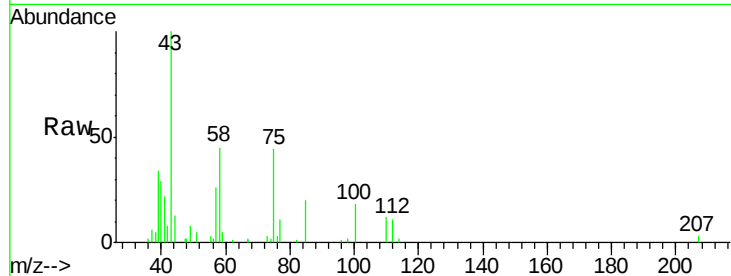
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 75 Resp: 8441

Ion Ratio Lower Upper

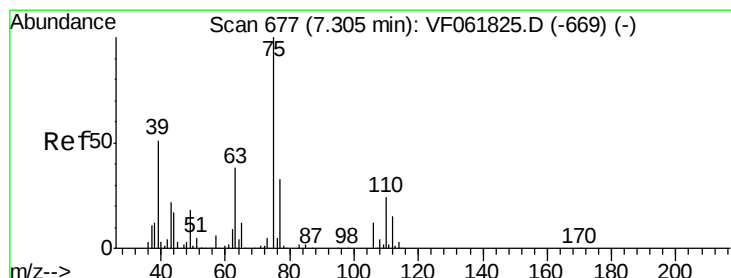
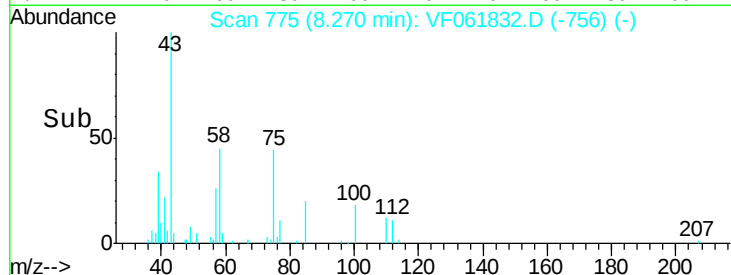
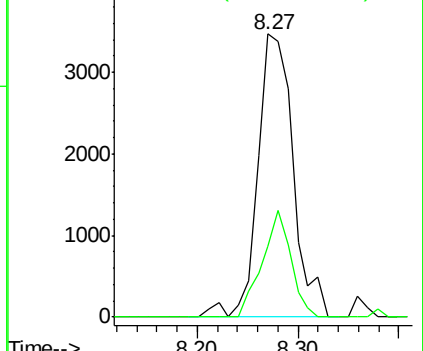
75 100

77 25.2 28.0 42.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 2.589 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

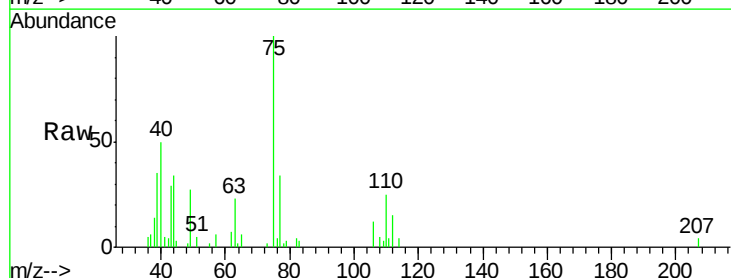
Tgt Ion: 75 Resp: 11639

Ion Ratio Lower Upper

75 100

77 33.9 26.3 39.5

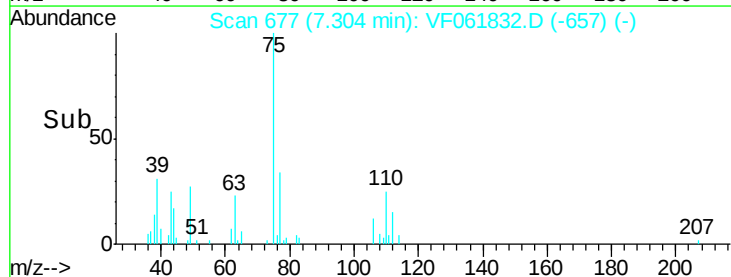
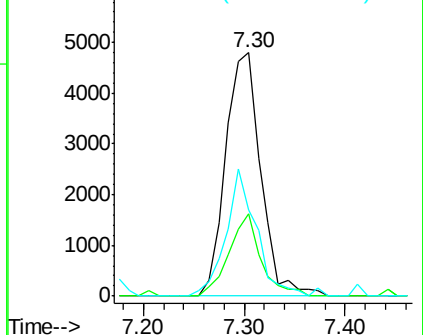
39 35.2 40.8 61.2#

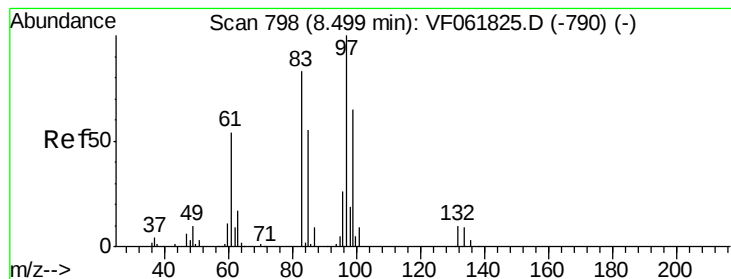


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 2.703 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 97 Resp: 5501

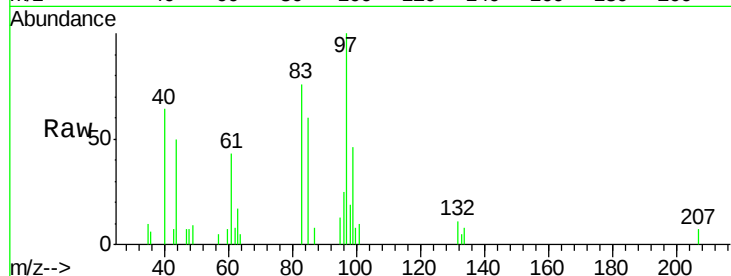
Ion Ratio Lower Upper

97 100

83 76.2 66.5 99.7

85 59.9 44.2 66.2

99 45.8 51.8 77.6#

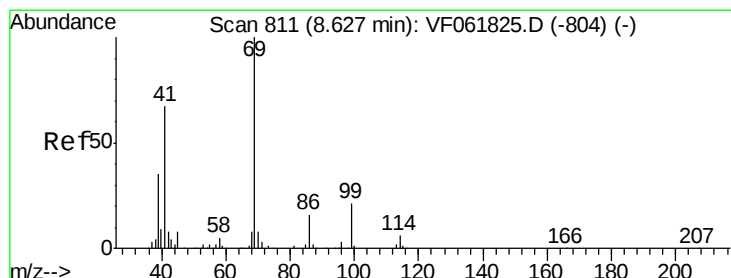
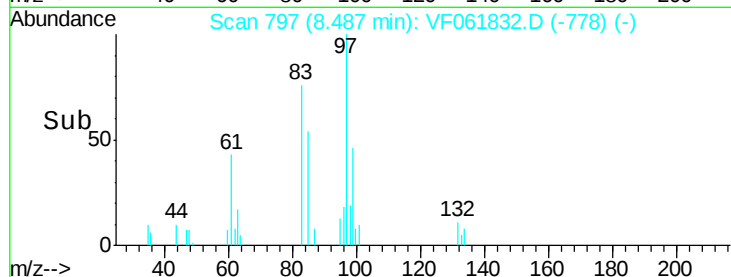
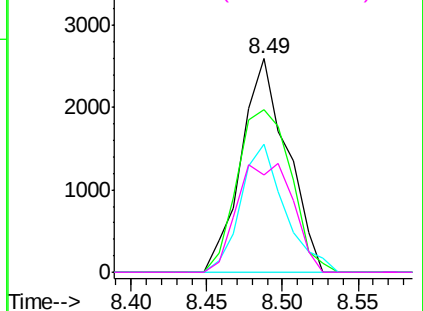


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 3.035 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

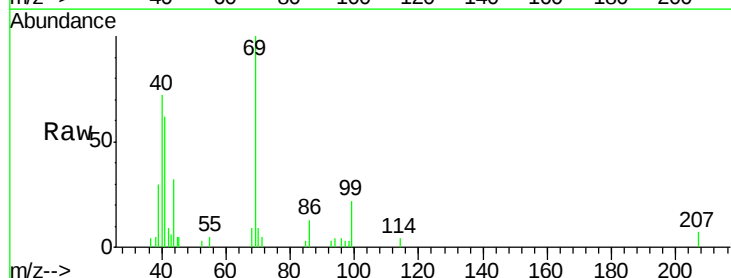
Tgt Ion: 69 Resp: 6961

Ion Ratio Lower Upper

69 100

41 61.5 53.9 80.9

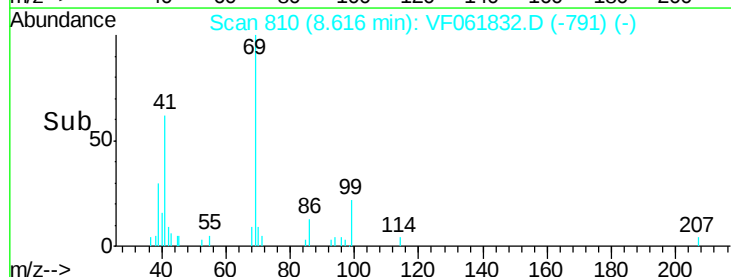
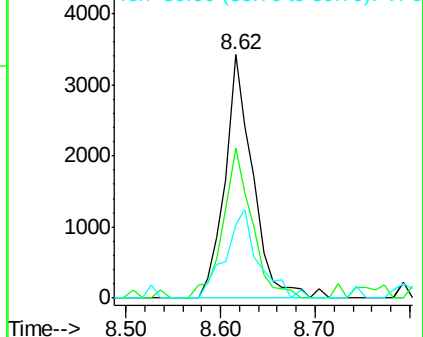
39 30.1 28.3 42.5

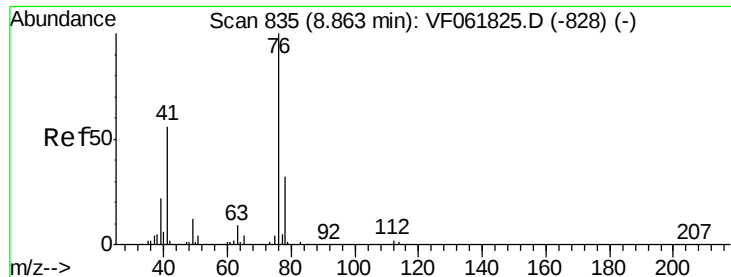


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 2.919 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

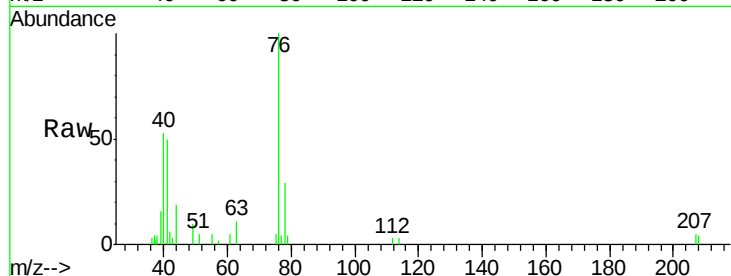
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 76 Resp: 9717

Ion Ratio Lower Upper

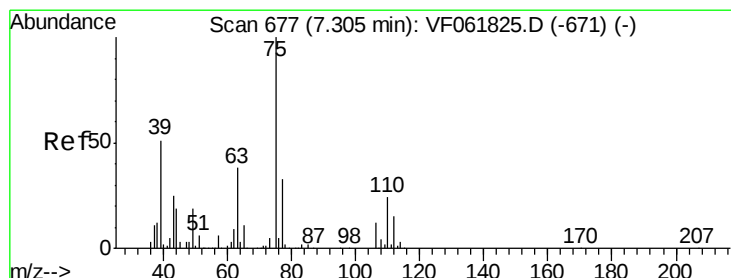
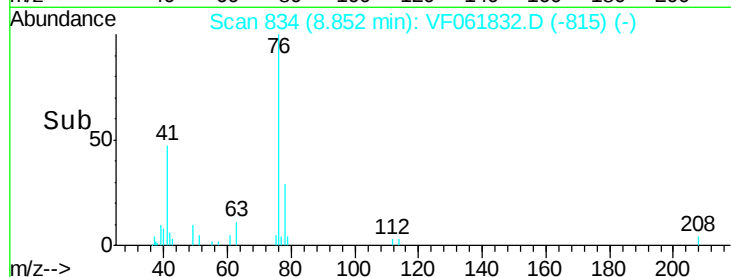
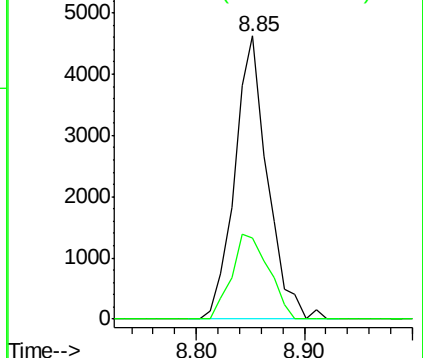
76 100

78 28.6 25.4 38.2



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 10.183 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061832.D

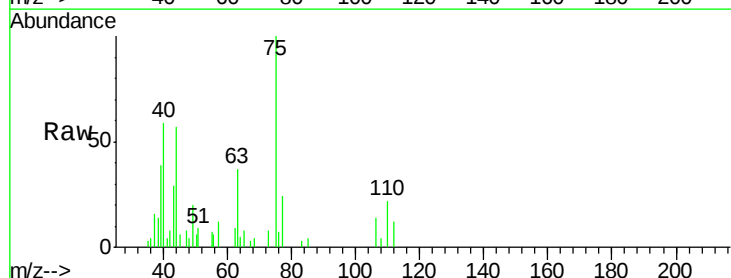
Acq: 4 Mar 2019 21:48

Tgt Ion: 63 Resp: 3695

Ion Ratio Lower Upper

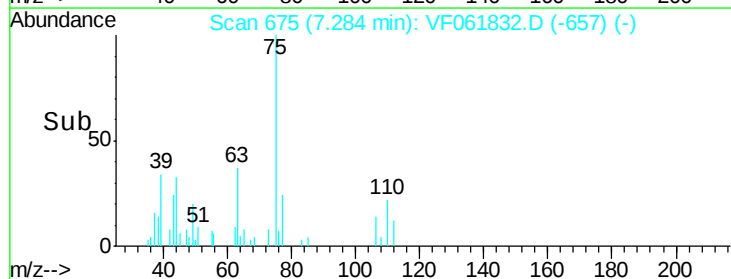
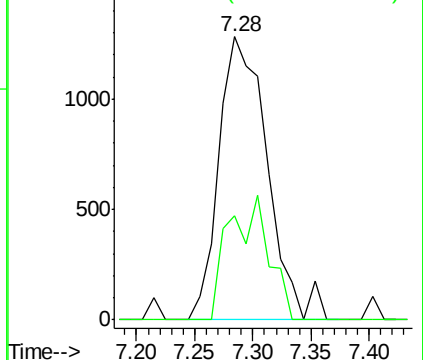
63 100

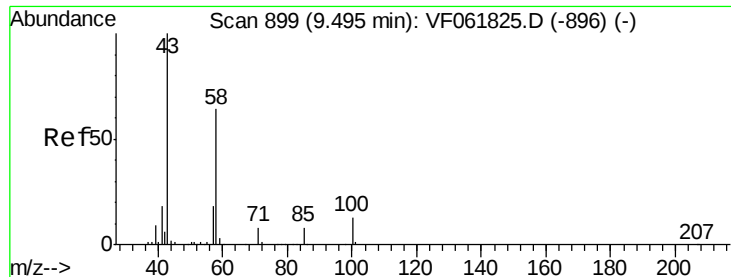
106 36.7 24.3 36.5#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

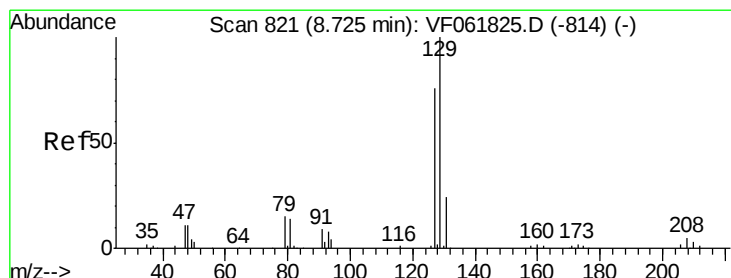
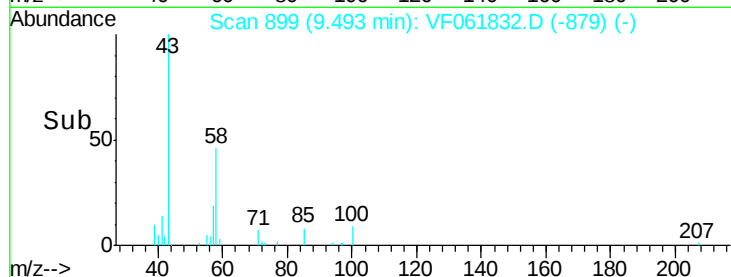
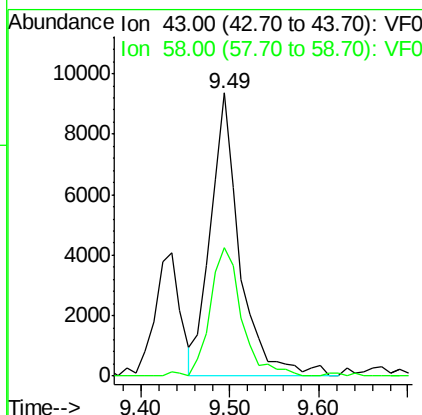
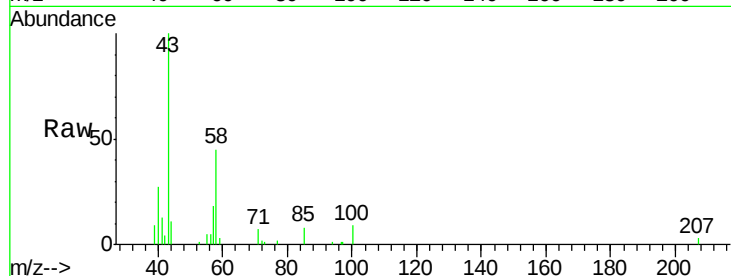




#59
2-Hexanone
Concen: 18.161 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

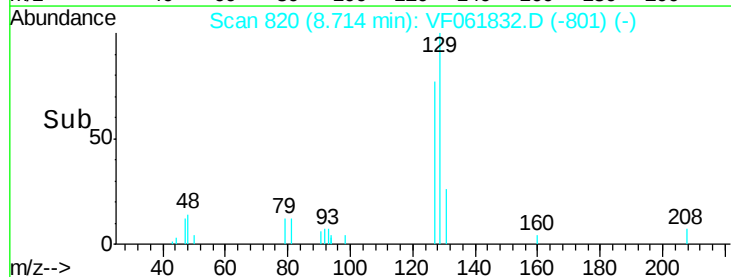
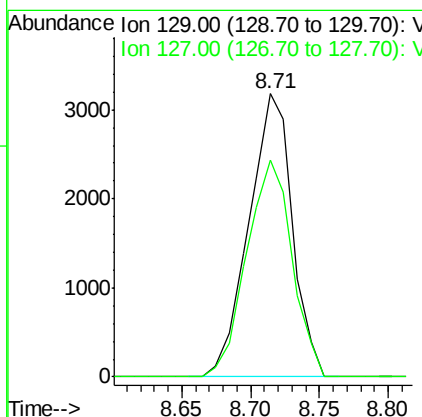
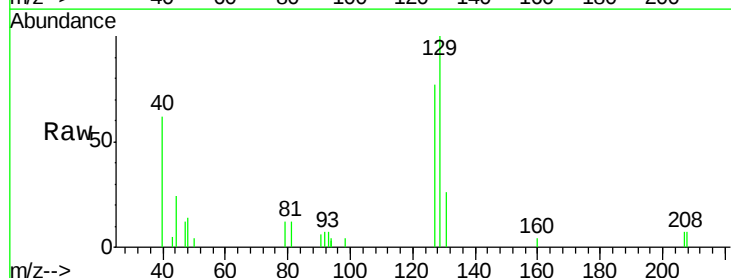
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

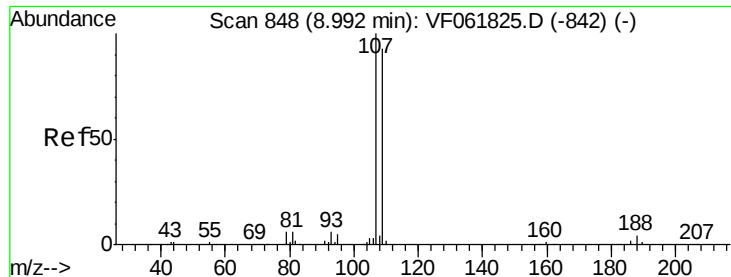
Tot Ion: 43 Resp: 21402
Ion Ratio Lower Upper
43 100
58 45.4 28.8 86.4



#60
Dibromochloromethane
Concen: 2.407 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 129 Resp: 6983
Ion Ratio Lower Upper
129 100
127 76.8 38.2 114.6





#61

1,2-Dibromoethane

Concen: 2.695 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

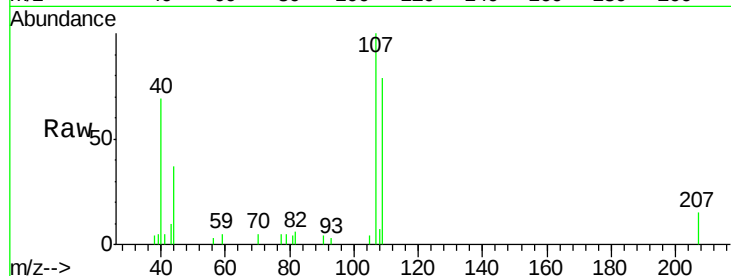
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:107 Resp: 6031

Ion Ratio Lower Upper

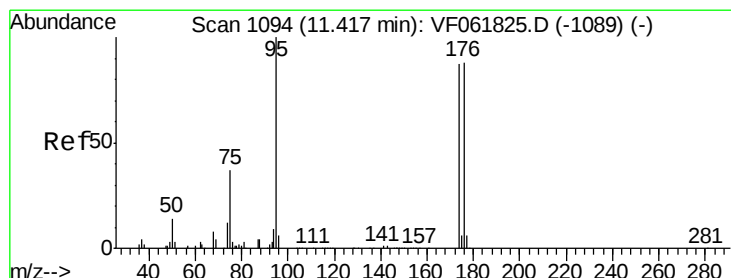
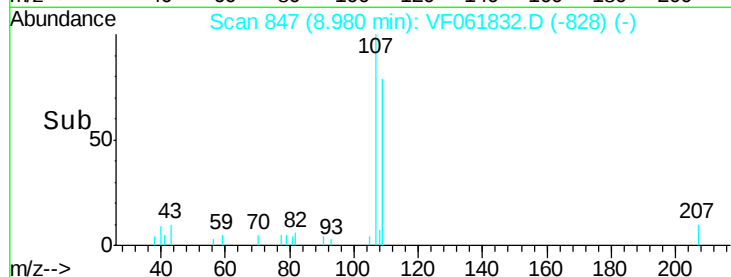
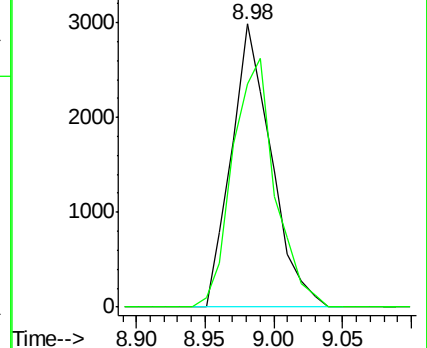
107 100

109 79.1 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: 52.367 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

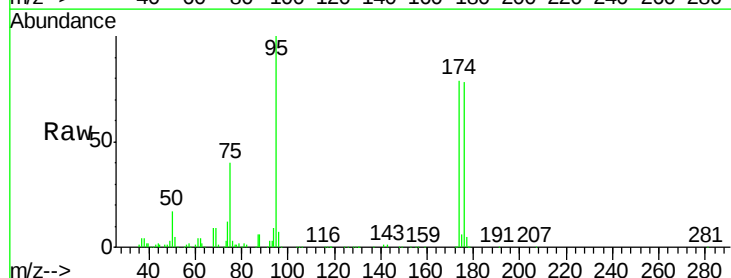
Tgt Ion: 95 Resp: 205784

Ion Ratio Lower Upper

95 100

174 79.4 0.0 174.0

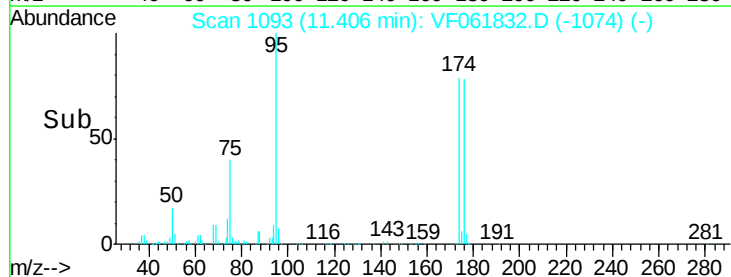
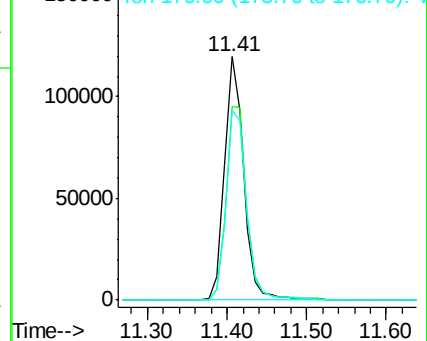
176 78.1 0.0 175.2

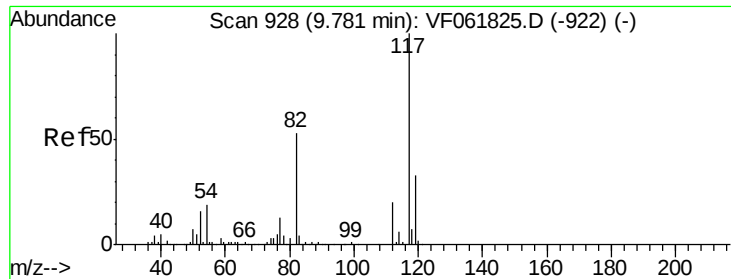


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

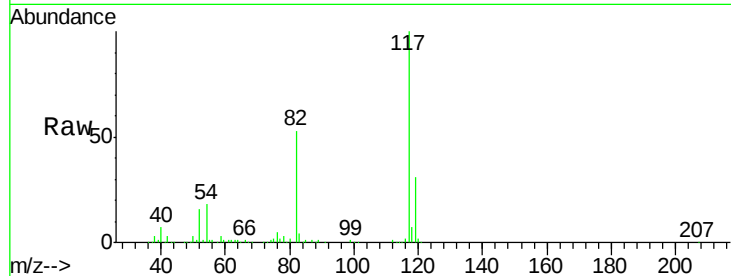




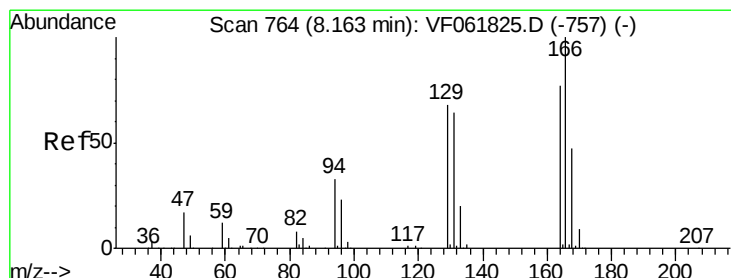
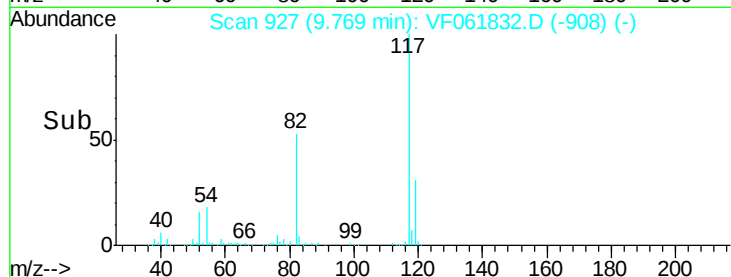
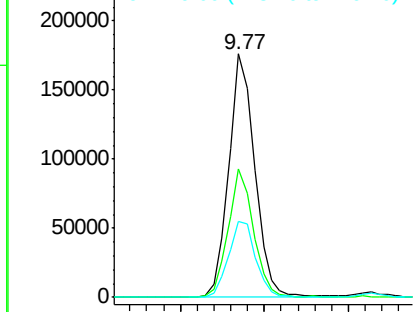
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:117 Resp: 381919
Ion Ratio Lower Upper
117 100
82 52.5 42.6 63.8
119 31.3 26.0 39.0

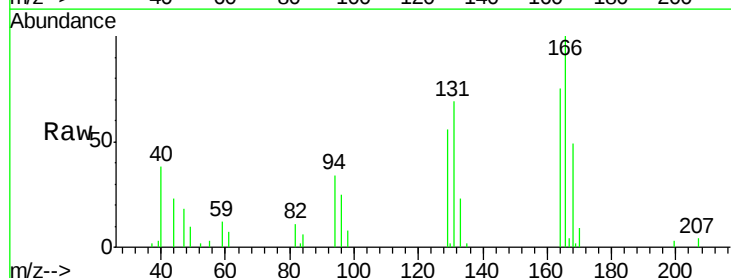


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

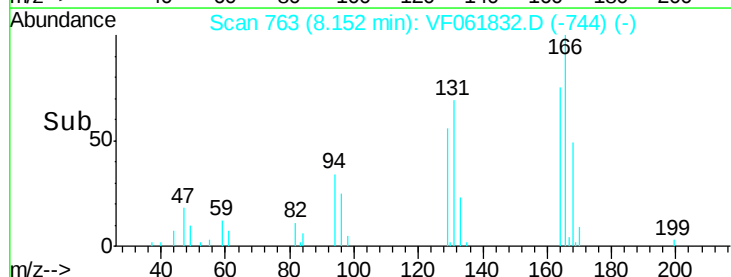
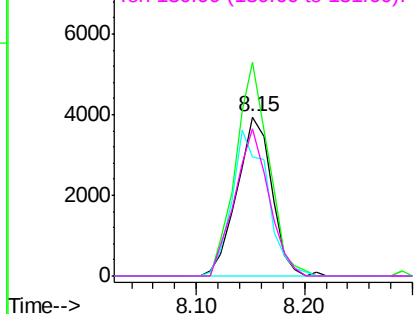


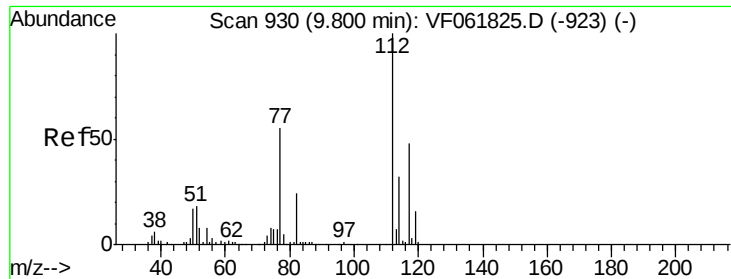
#64
Tetrachloroethene
Concen: 3.018 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion:164 Resp: 8858
Ion Ratio Lower Upper
164 100
166 134.2 103.4 155.0
129 74.7 69.9 104.9
131 92.5 66.4 99.6



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

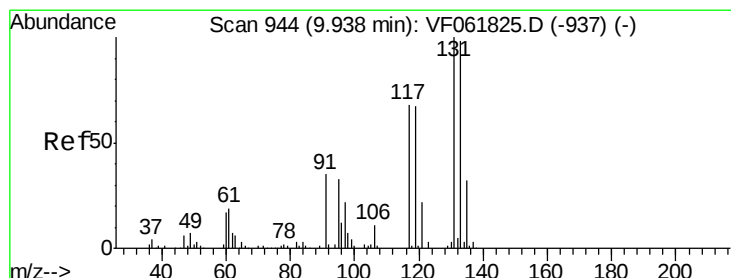
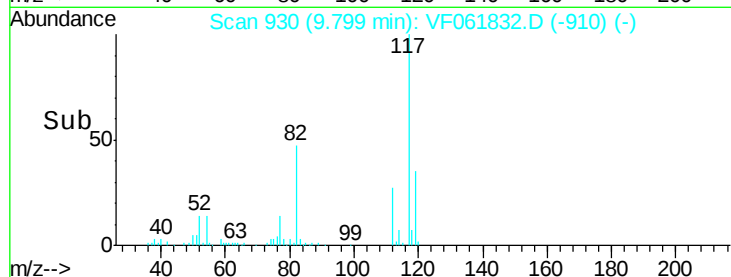
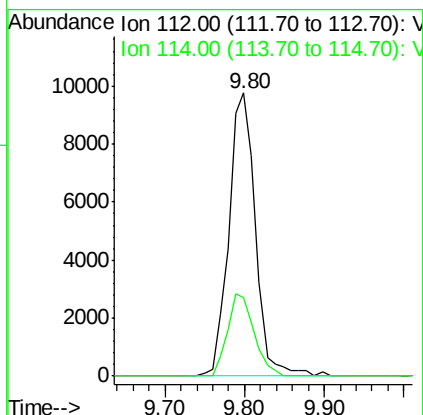
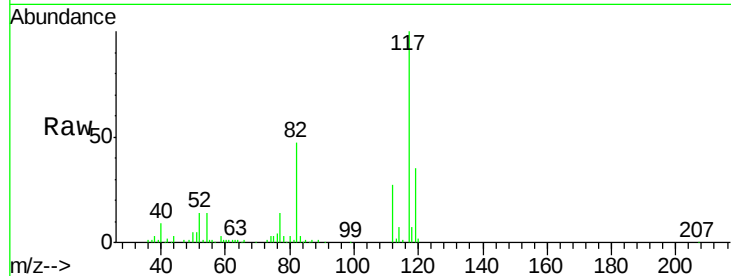




#65
Chlorobenzene
Concen: 3.117 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

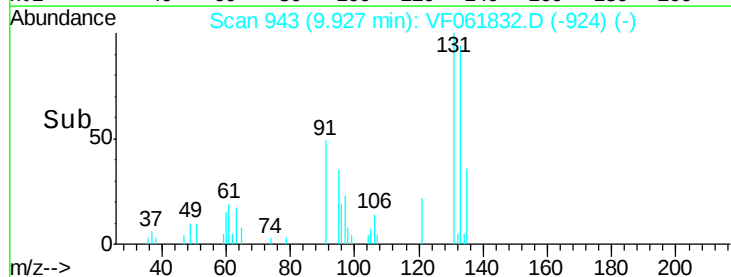
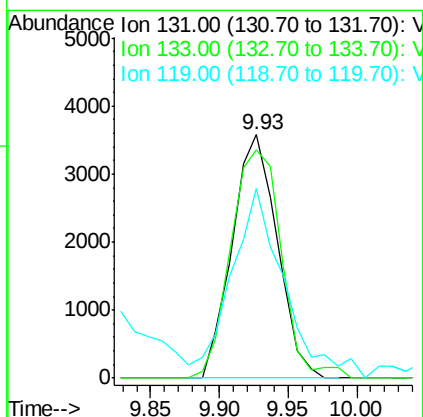
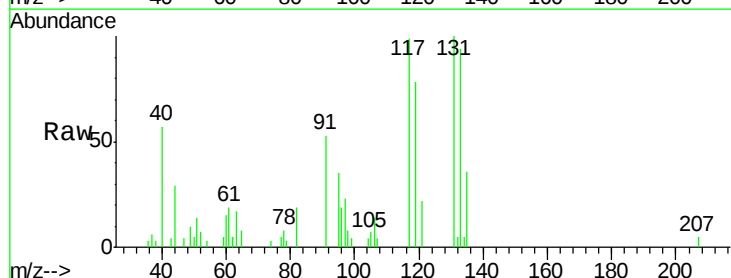
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

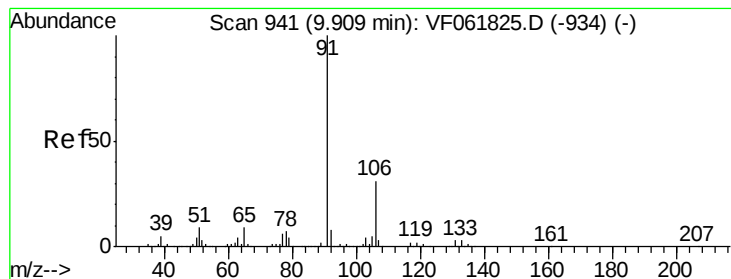
Tot Ion:112 Resp: 22869
Ion Ratio Lower Upper
112 100
114 27.6 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 2.868 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion:131 Resp: 8153
Ion Ratio Lower Upper
131 100
133 93.7 48.9 146.7
119 77.8 33.6 100.8





#67

Ethyl Benzene

Concen: 3.006 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

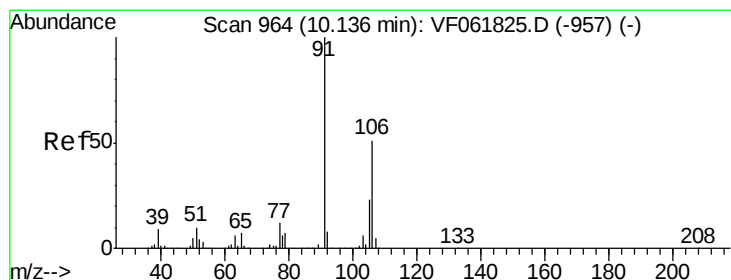
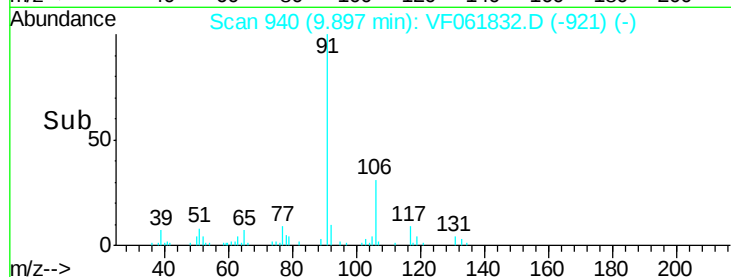
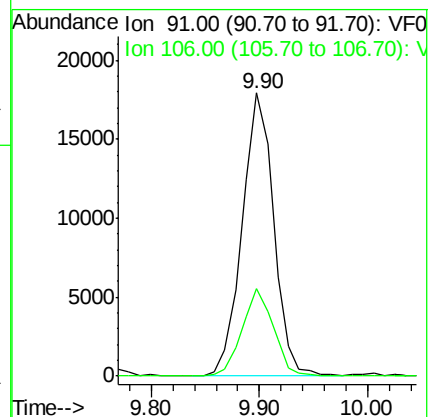
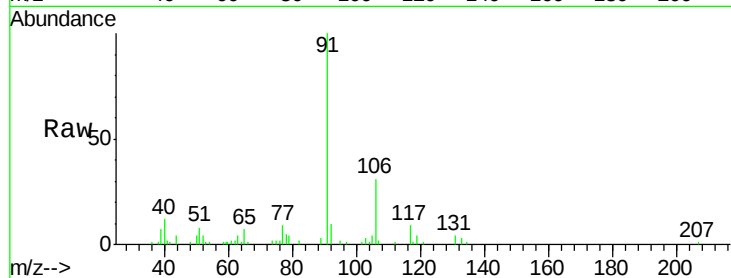
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 91 Resp: 36558

Ion Ratio Lower Upper

91 100

106 30.8 25.0 37.4



#68

m/p-Xylenes

Concen: 5.926 ug/l

RT: 10.12 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061832.D

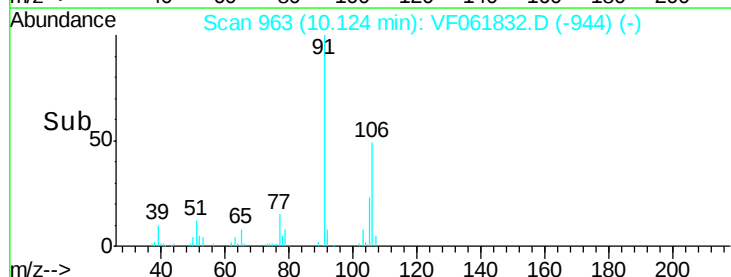
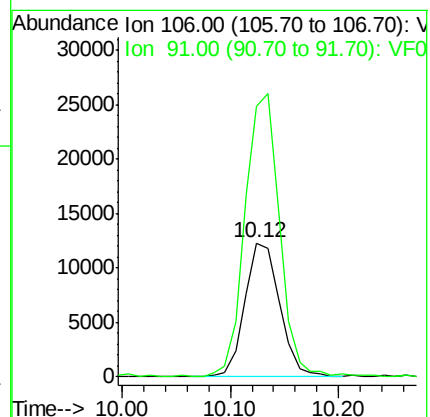
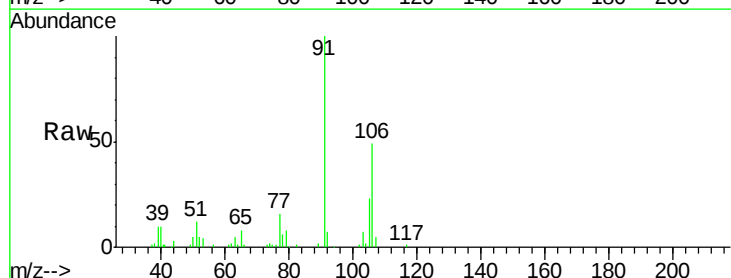
Acq: 4 Mar 2019 21:48

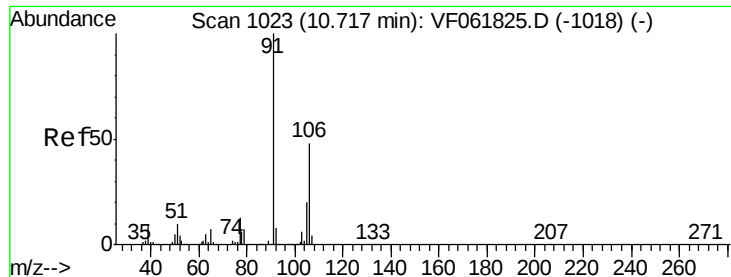
Tgt Ion: 106 Resp: 27611

Ion Ratio Lower Upper

106 100

91 203.0 157.5 236.3

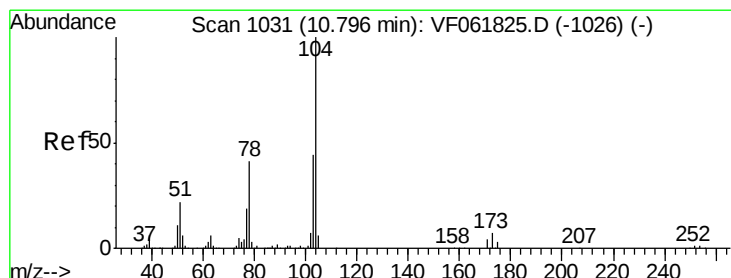
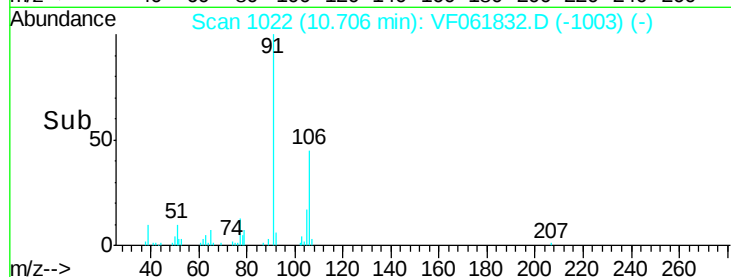
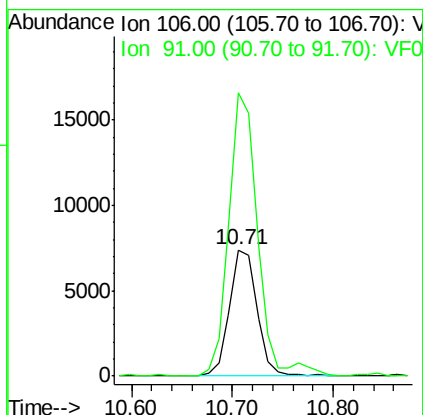
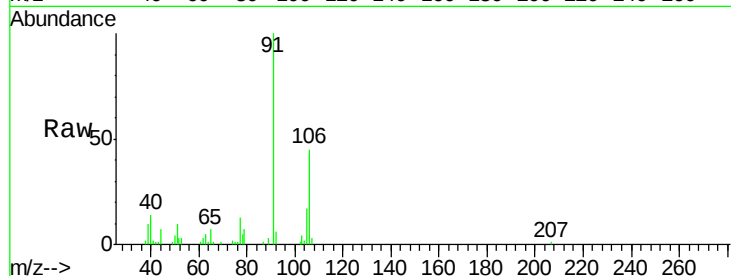




#69
o-Xylene
Concen: 2.801 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

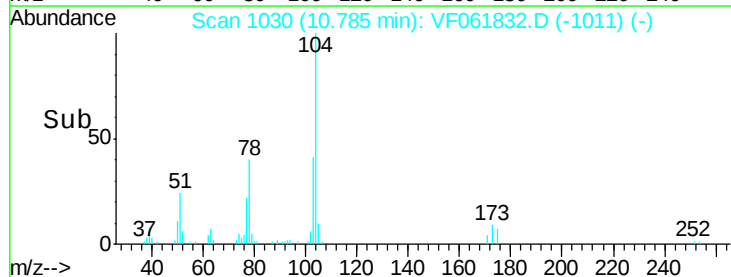
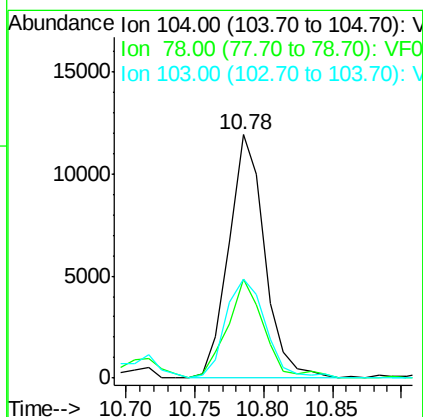
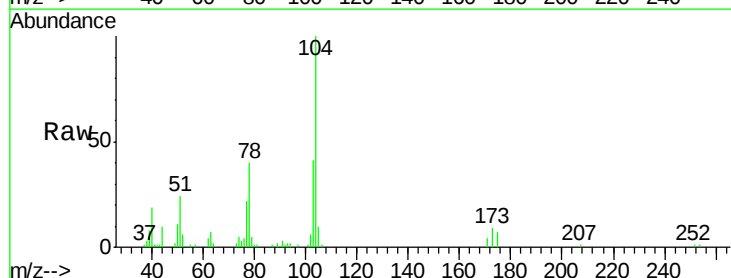
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

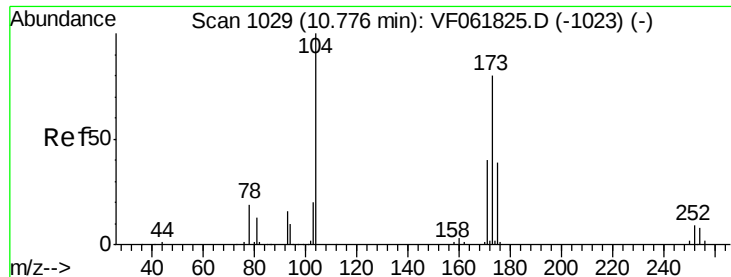
Tot Ion:106 Resp: 14051
Ion Ratio Lower Upper
106 100
91 224.4 103.5 310.3



#70
Styrene
Concen: 3.079 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion:104 Resp: 21741
Ion Ratio Lower Upper
104 100
78 40.5 33.3 49.9
103 40.8 35.4 53.0





#71

Bromoform

Concen: 2.726 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

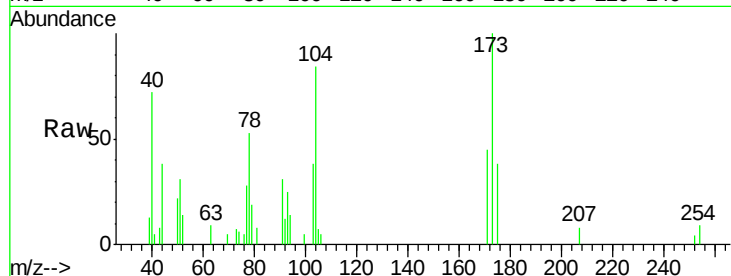
Tot Ion:173 Resp: 4096

Ion Ratio Lower Upper

173 100

175 37.7 24.5 73.5

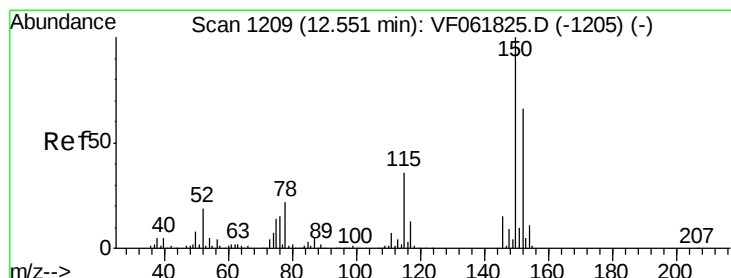
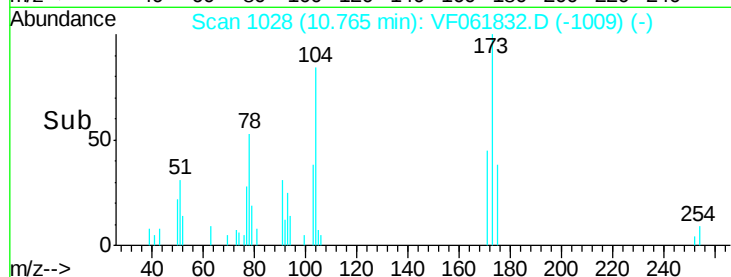
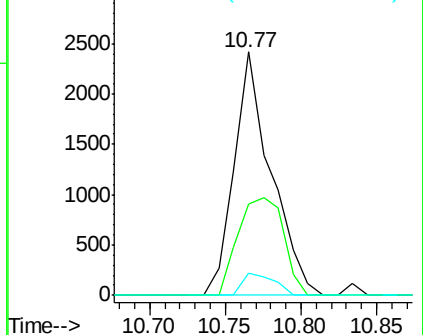
254 9.1 8.0 12.0



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: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

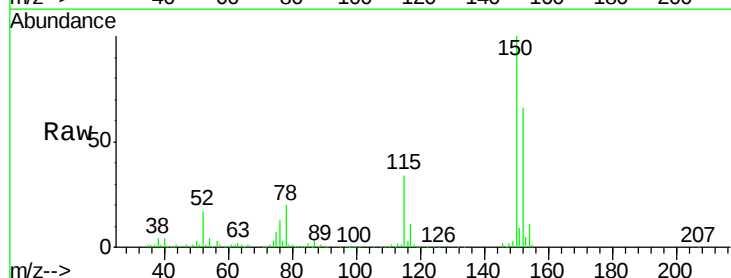
Tgt Ion:152 Resp: 226037

Ion Ratio Lower Upper

152 100

115 50.7 27.7 83.1

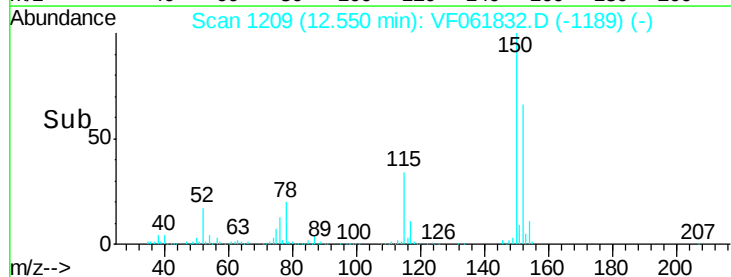
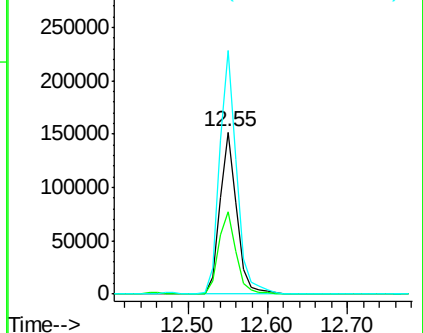
150 150.5 0.0 304.2

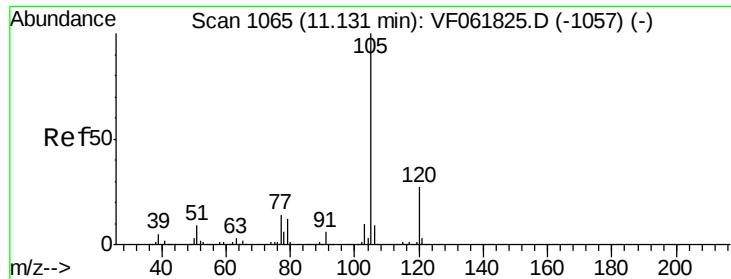


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

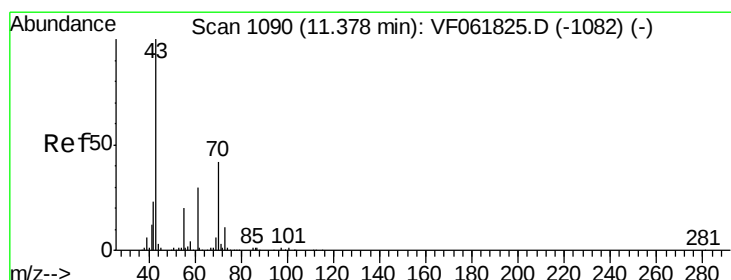
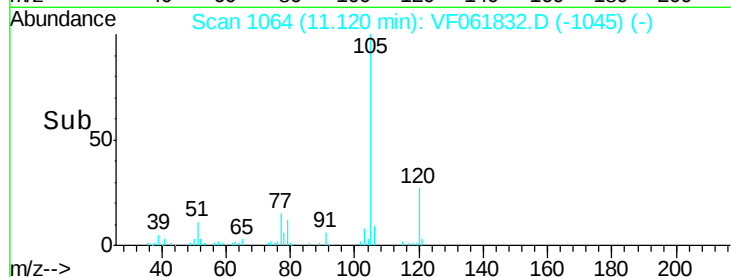
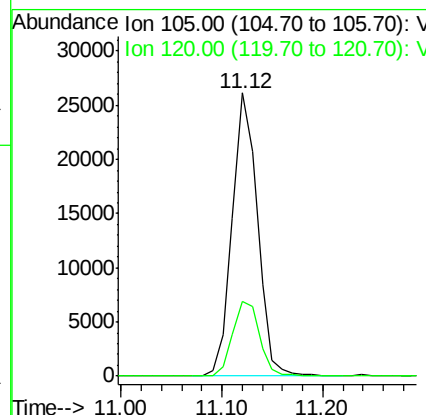
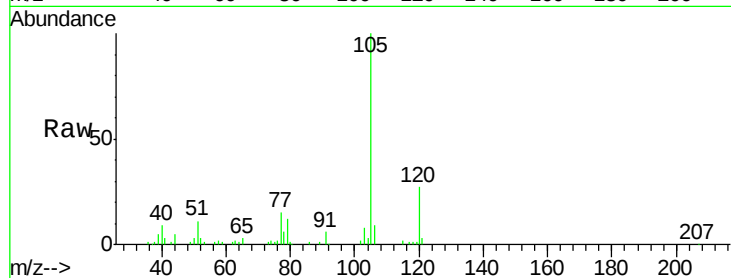




#73
Isopropylbenzene
Concen: 2.931 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

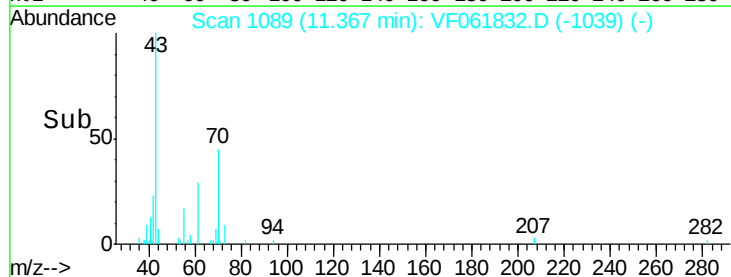
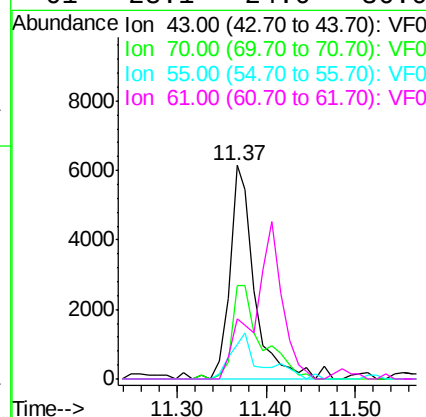
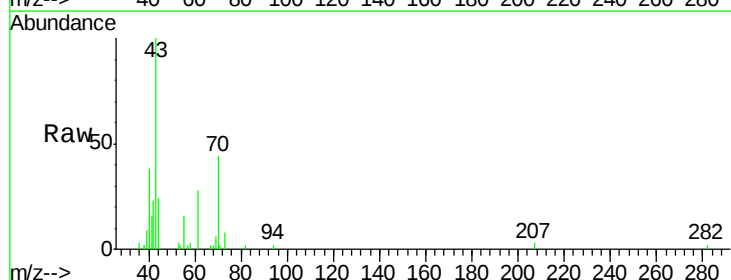
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

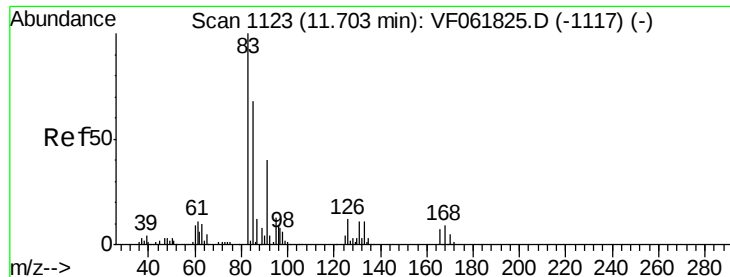
Tot Ion:105 Resp: 45615
Ion Ratio Lower Upper
105 100
120 26.5 13.7 41.0



#74
N-ethyl acetate
Concen: 3.361 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 43 Resp: 12040
Ion Ratio Lower Upper
43 100
70 44.1 33.4 50.0
55 16.5 16.3 24.5
61 28.1 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 3.135 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

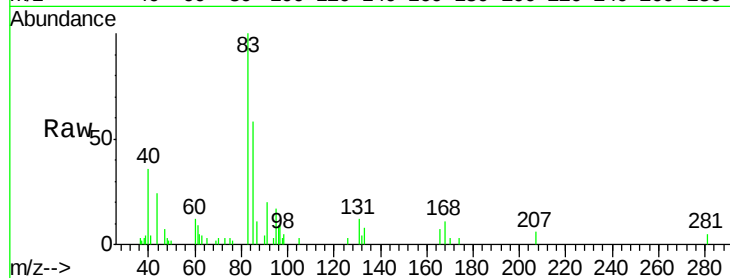
Tot Ion: 83 Resp: 8108

Ion Ratio Lower Upper

83 100

131 12.2 5.5 16.7

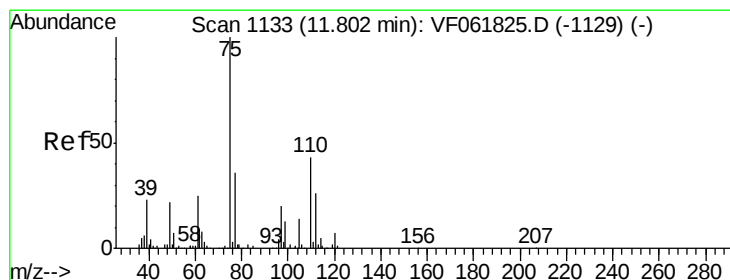
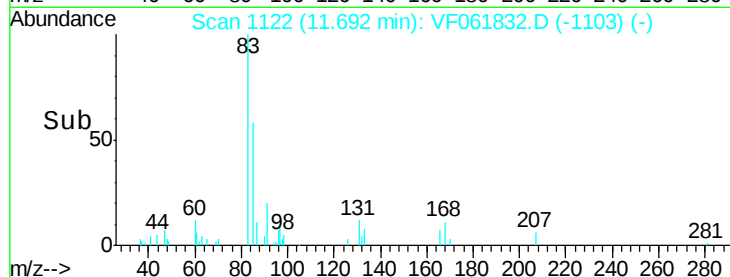
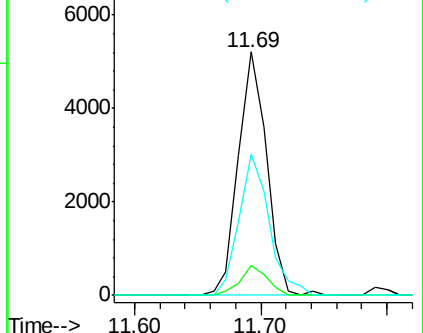
85 58.0 34.2 102.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 3.023 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF061832.D

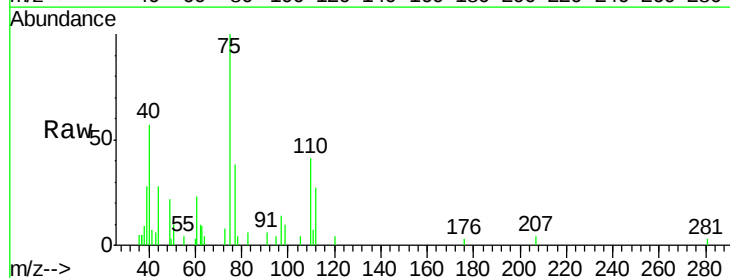
Acq: 4 Mar 2019 21:48

Tgt Ion: 75 Resp: 5337

Ion Ratio Lower Upper

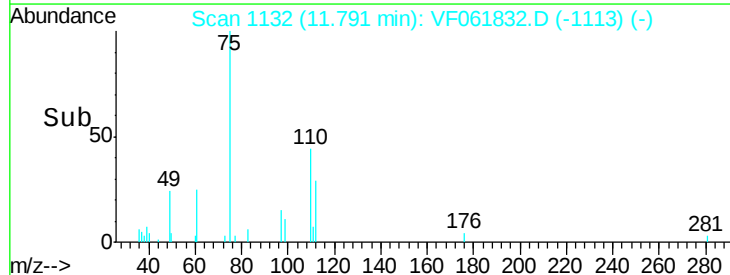
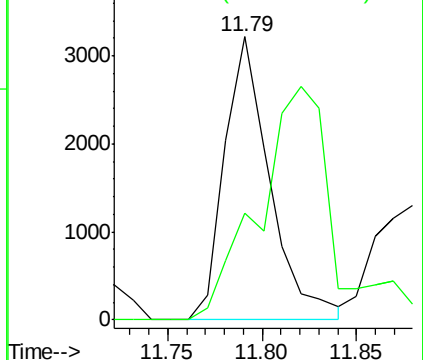
75 100

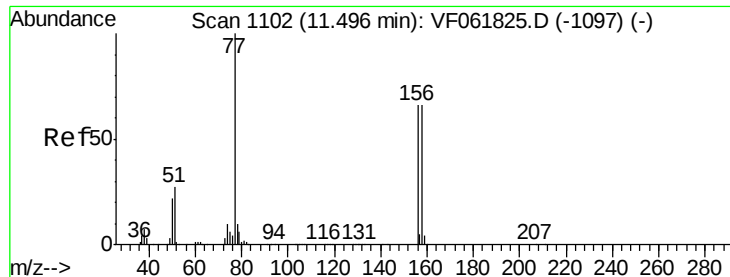
77 37.7 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 2.871 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

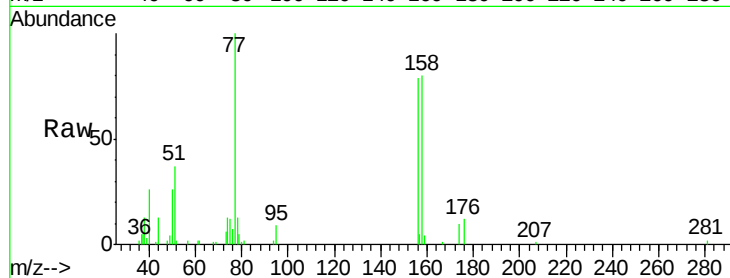
Tot Ion:156 Resp: 10751

Ion Ratio Lower Upper

156 100

77 126.3 75.7 227.1

158 100.8 50.0 150.1



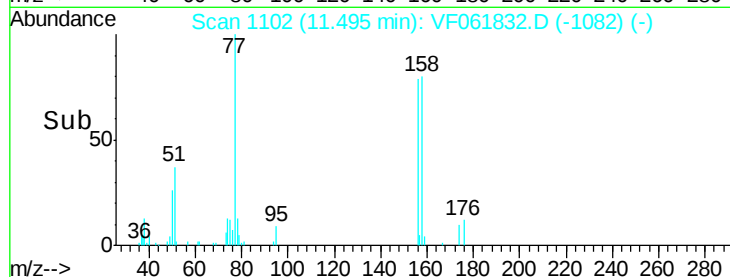
Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V

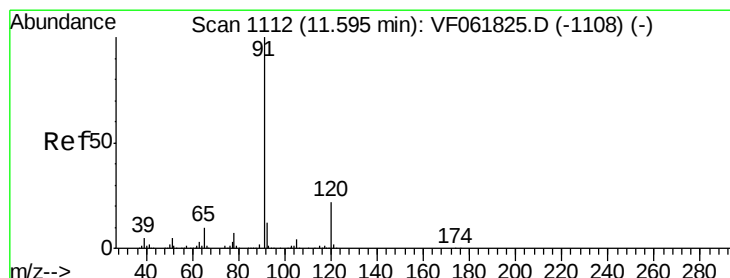
Time-->

11.49



Time-->

11.49



#78

n-propylbenzene

Concen: 3.171 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061832.D

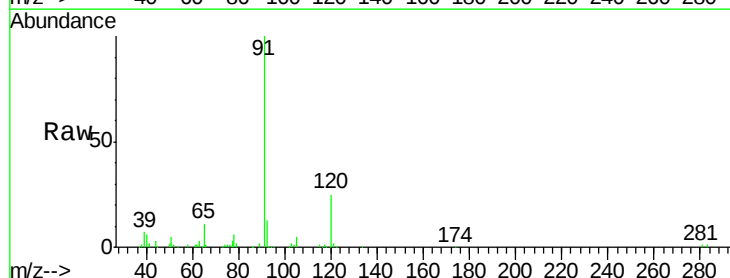
Acq: 4 Mar 2019 21:48

Tgt Ion: 91 Resp: 55724

Ion Ratio Lower Upper

91 100

120 24.7 11.1 33.1

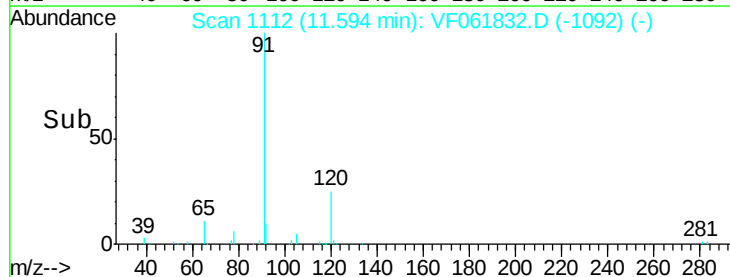


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

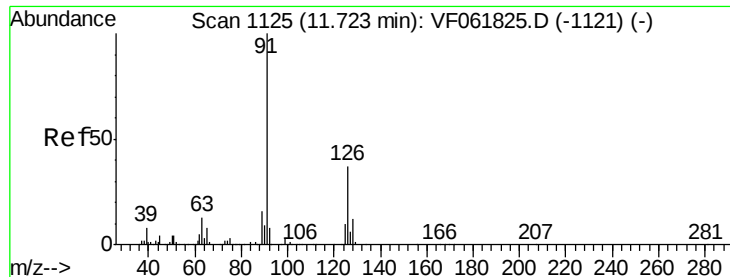
Time-->

11.59



Time-->

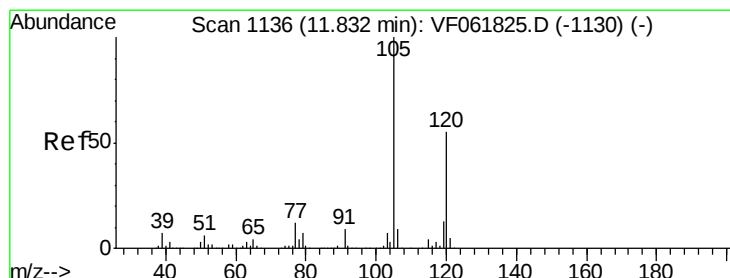
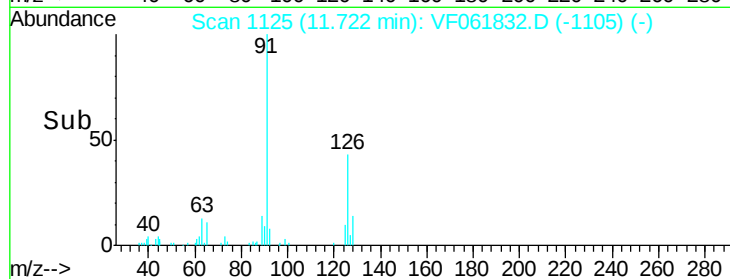
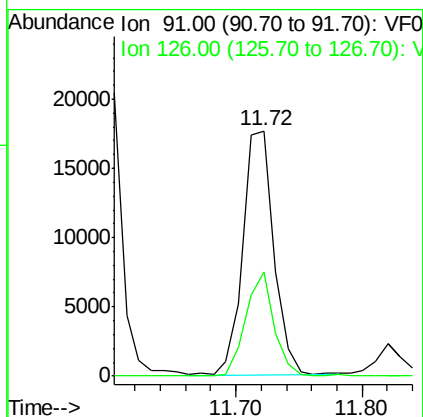
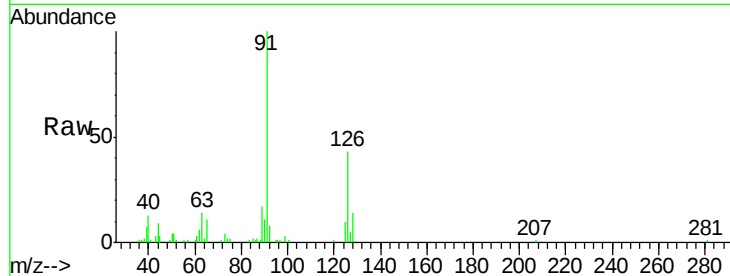
11.59



#79
2-Chlorotoluene
Concen: 3.014 ug/l
RT: 11.72 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

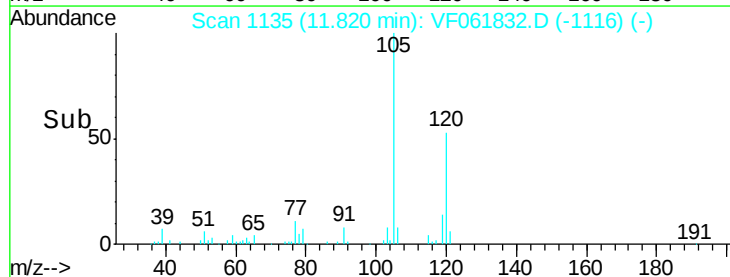
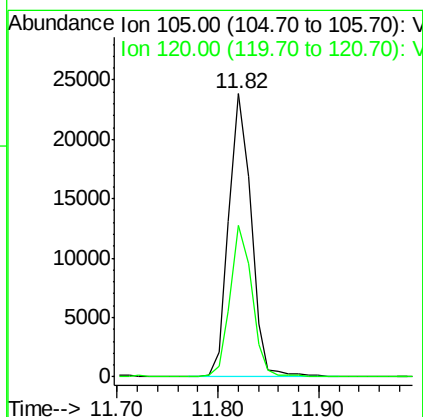
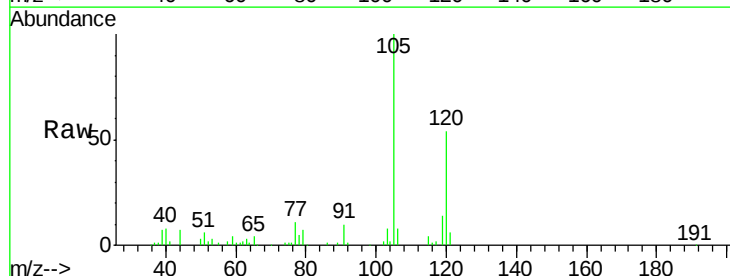
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 91 Resp: 30278
Ion Ratio Lower Upper
91 100
126 42.6 18.1 54.4



#80
1,3,5-Trimethylbenzene
Concen: 2.949 ug/l
RT: 11.82 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion:105 Resp: 36850
Ion Ratio Lower Upper
105 100
120 53.6 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 3.964 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

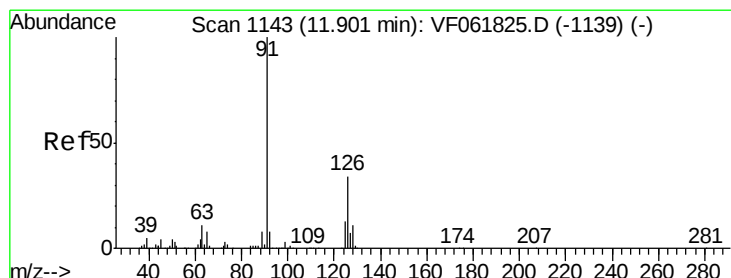
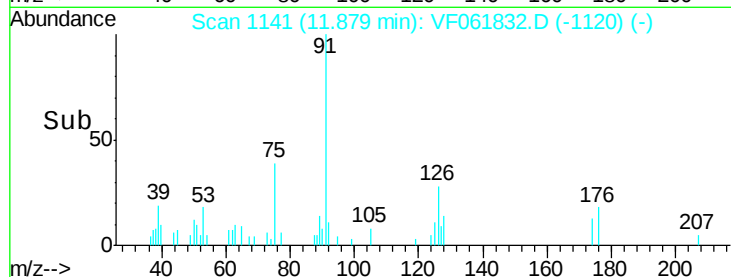
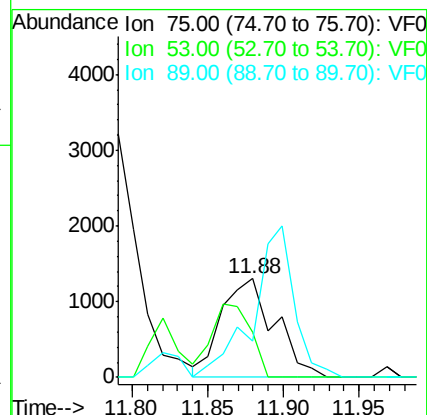
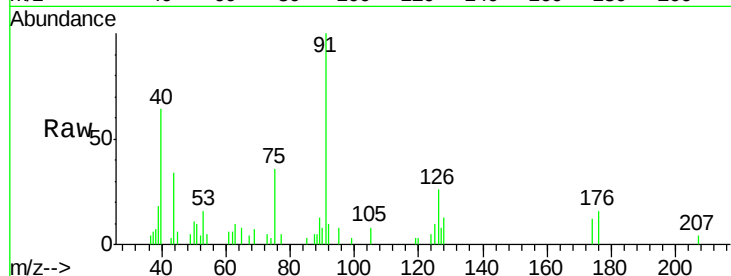
Tot Ion: 75 Resp: 3200

Ion Ratio Lower Upper

75 100

53 45.8 58.6 88.0#

89 36.8 41.4 62.0#



#82

4-Chlorotoluene

Concen: 3.004 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF061832.D

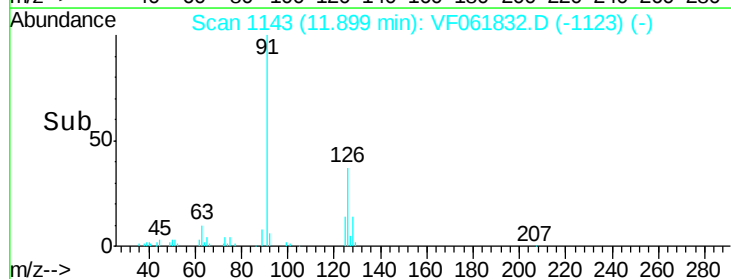
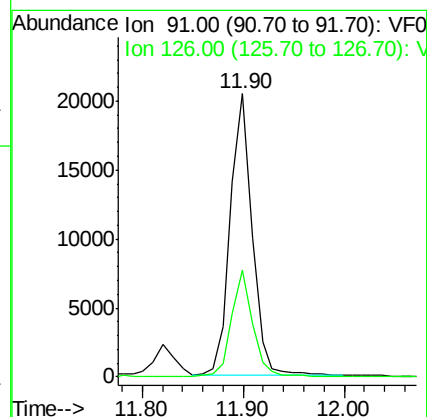
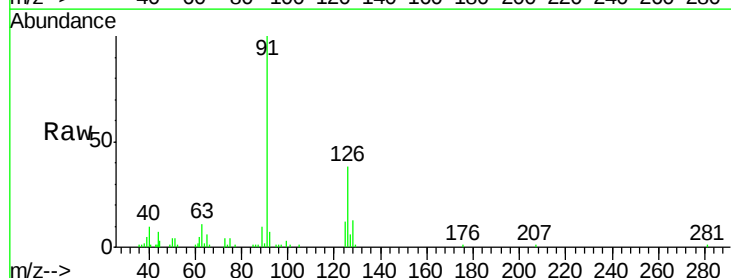
Acq: 4 Mar 2019 21:48

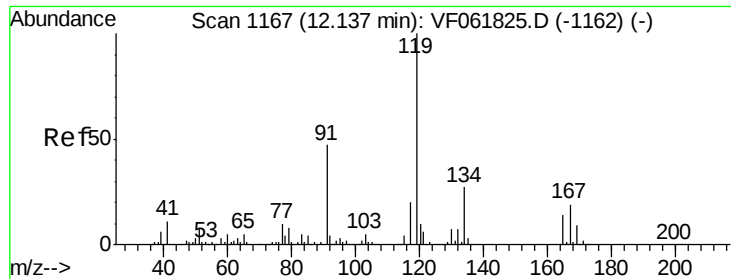
Tgt Ion: 91 Resp: 30869

Ion Ratio Lower Upper

91 100

126 37.8 17.0 50.9

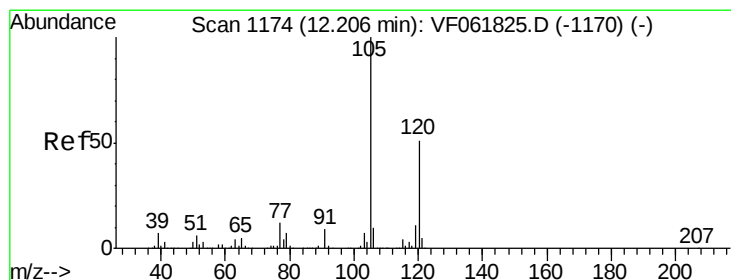
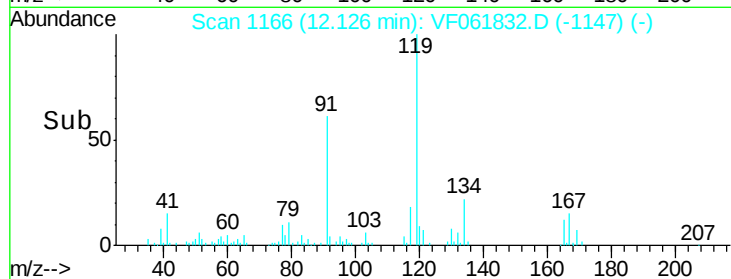
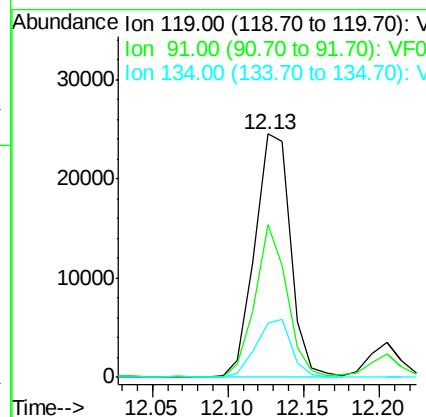
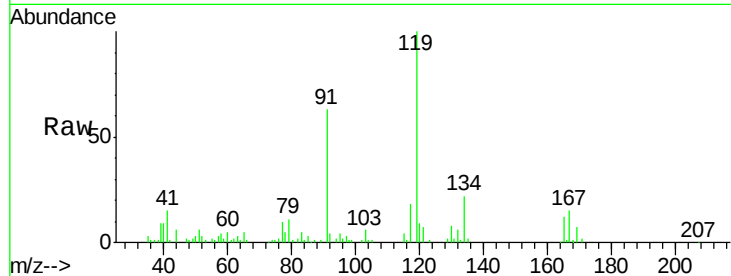




#83
 tert-Butylbenzene
 Concen: 3.074 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

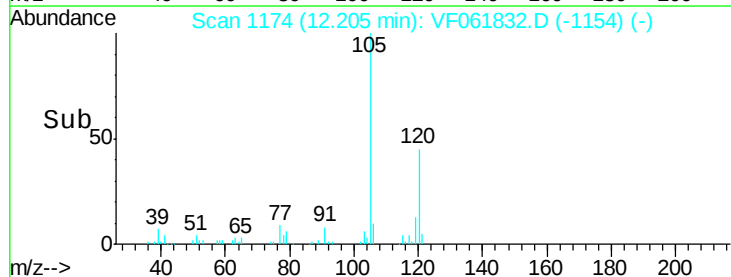
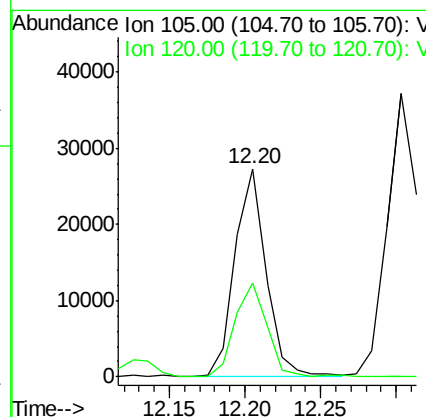
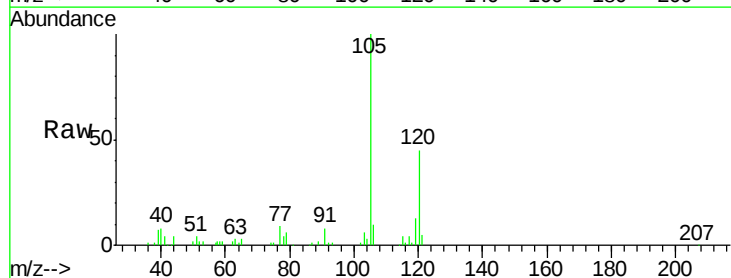
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

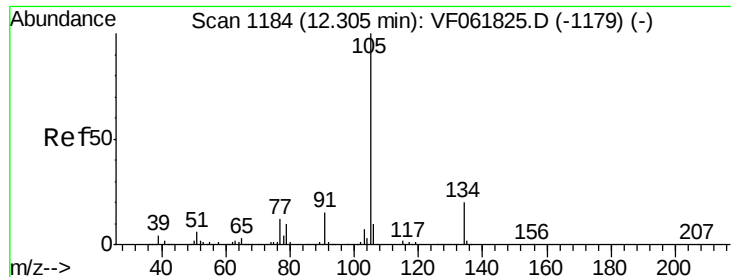
Tot Ion:119 Resp: 40775
 Ion Ratio Lower Upper
 119 100
 91 62.7 23.5 70.5
 134 22.1 13.3 39.8



#84
 1,2,4-Trimethylbenzene
 Concen: 3.206 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion:105 Resp: 39263
 Ion Ratio Lower Upper
 105 100
 120 45.1 25.8 77.4

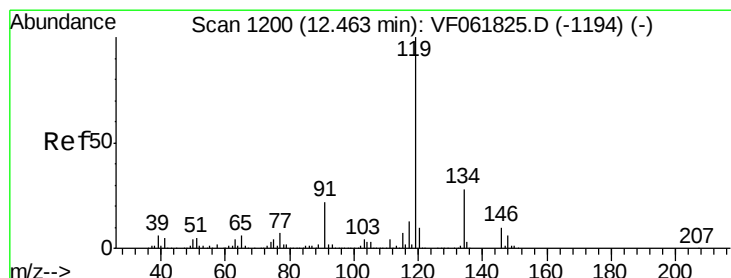
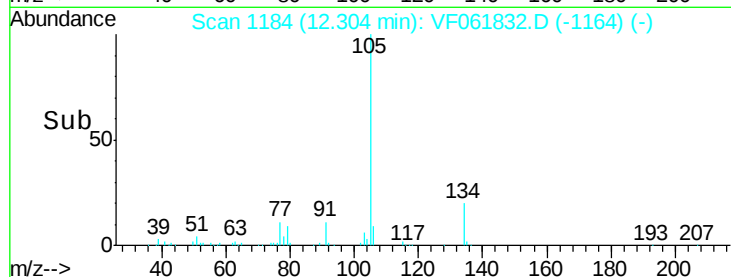
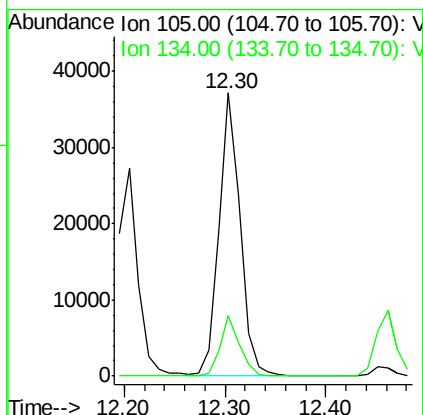
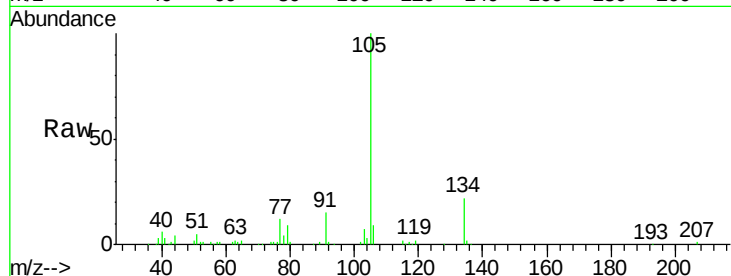




#85
 sec-Butylbenzene
 Concen: 3.168 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

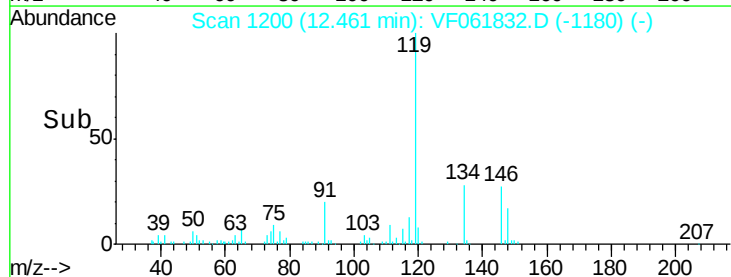
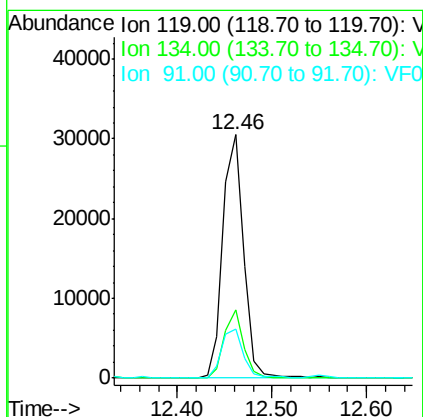
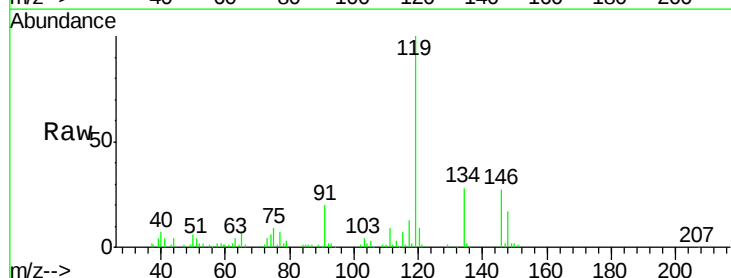
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

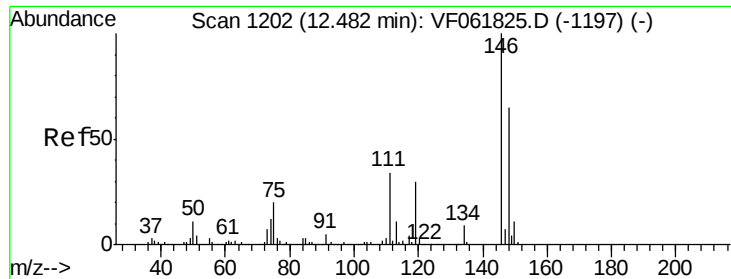
Tot Ion:105 Resp: 54691
 Ion Ratio Lower Upper
 105 100
 134 21.5 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 3.166 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion:119 Resp: 46455
 Ion Ratio Lower Upper
 119 100
 134 28.0 14.0 42.0
 91 20.1 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 3.604 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

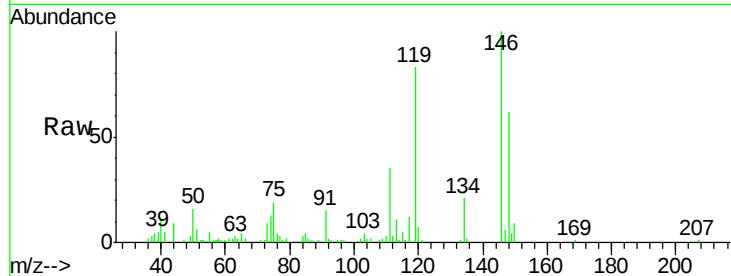
Tot Ion:146 Resp: 25627

Ion Ratio Lower Upper

146 100

111 35.1 17.0 51.0

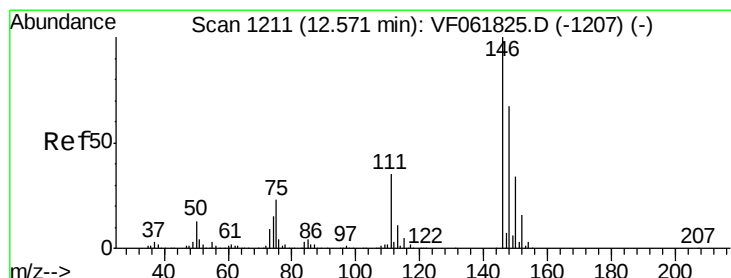
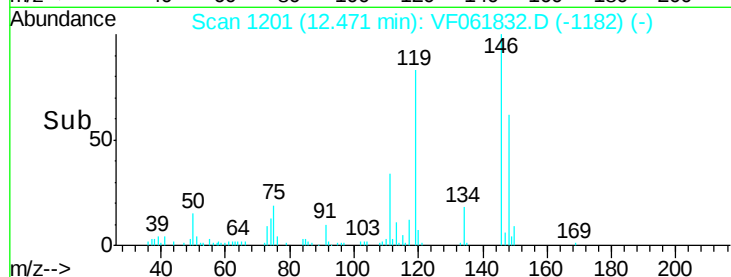
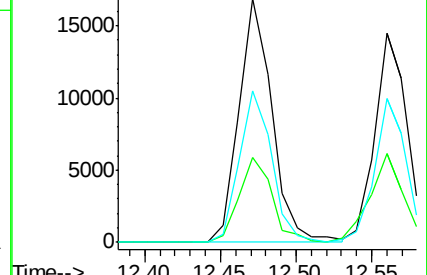
148 62.1 32.5 97.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 3.240 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

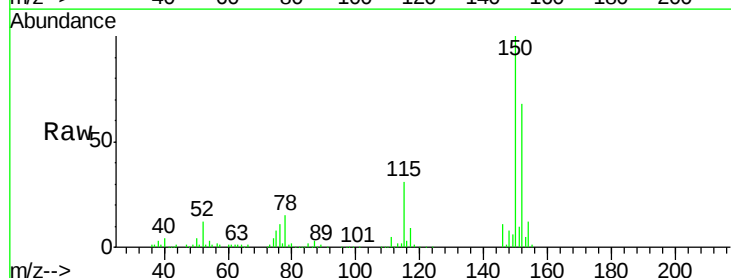
Tgt Ion:146 Resp: 22228

Ion Ratio Lower Upper

146 100

111 42.5 17.6 52.9

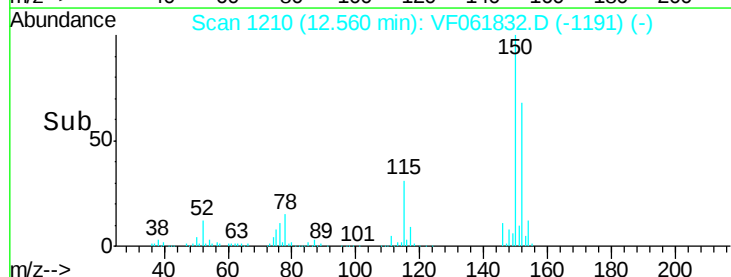
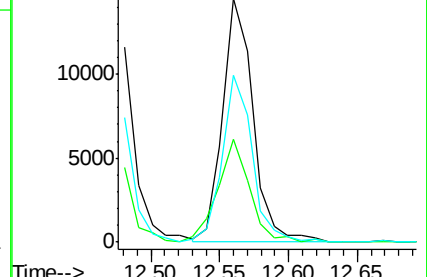
148 68.5 33.5 100.4

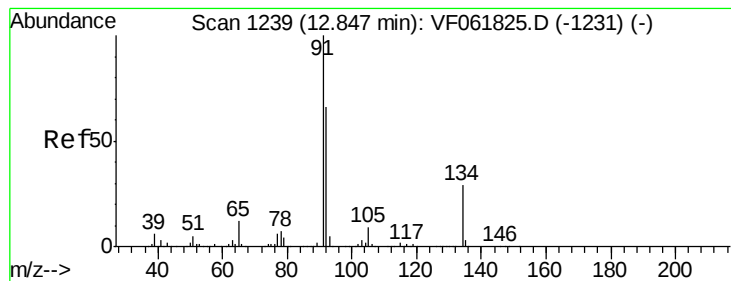


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 3.017 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

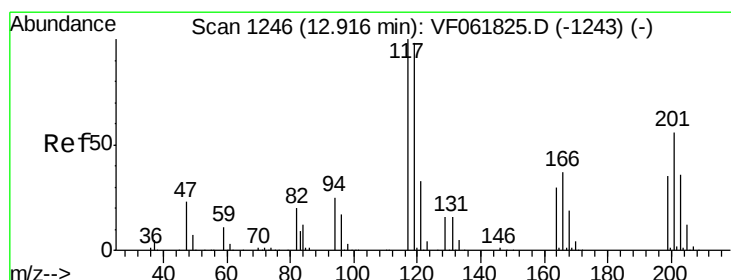
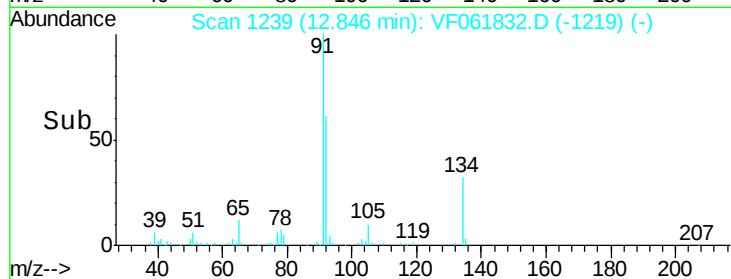
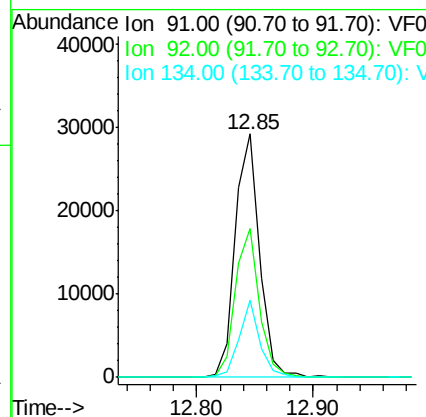
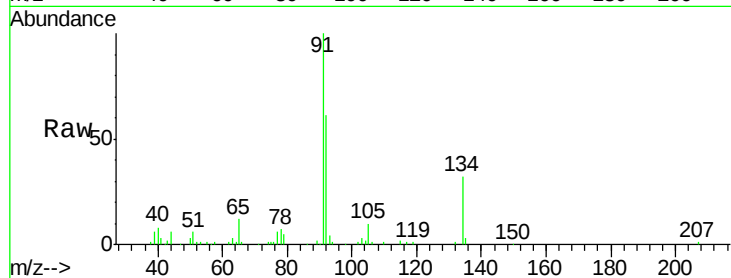
Tot Ion: 91 Resp: 42306

Ion	Ratio	Lower	Upper
91	100		
92	61.3	32.9	98.6
134	31.5	14.5	43.6

91 100

92 61.3 32.9 98.6

134 31.5 14.5 43.6



#90

Hexachloroethane

Concen: 2.781 ug/l

RT: 12.91 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VF061832.D

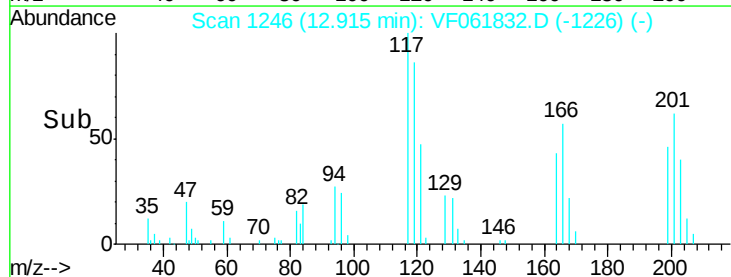
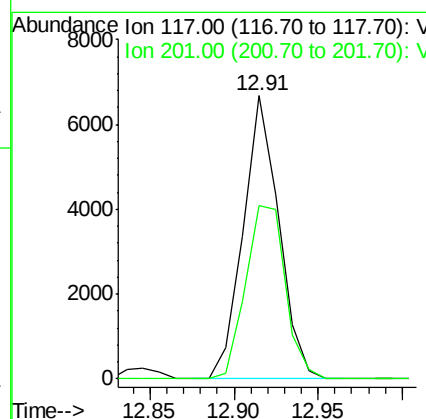
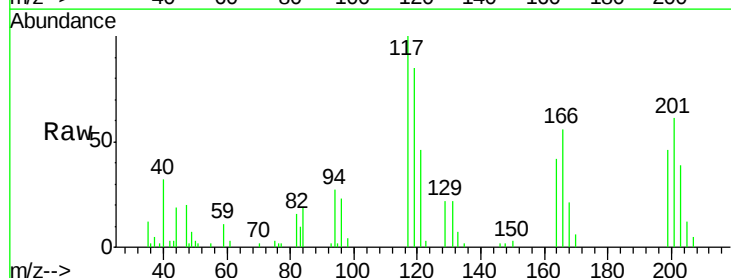
Acq: 4 Mar 2019 21:48

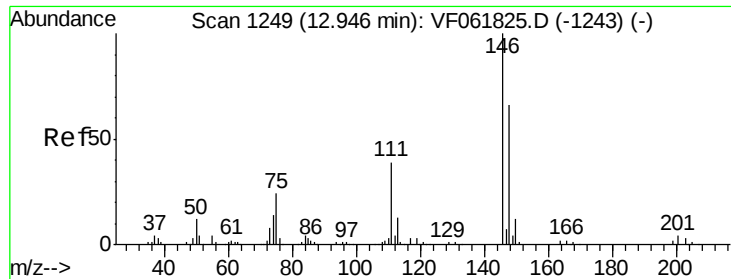
Tgt Ion: 117 Resp: 9822

Ion	Ratio	Lower	Upper
117	100		
201	61.3	27.8	83.4

117 100

201 61.3 27.8 83.4

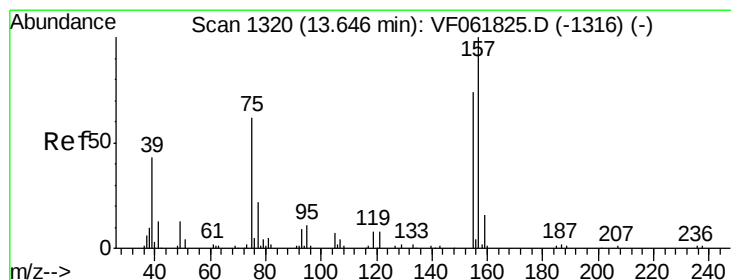
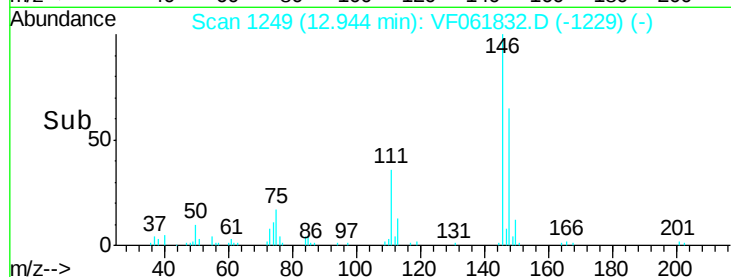
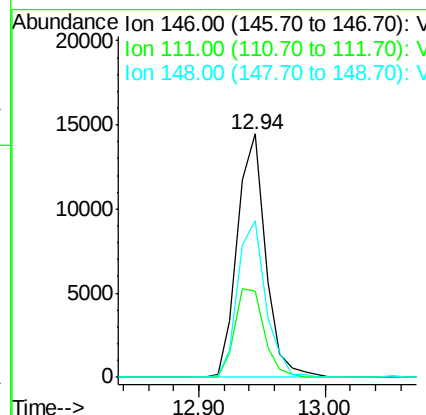
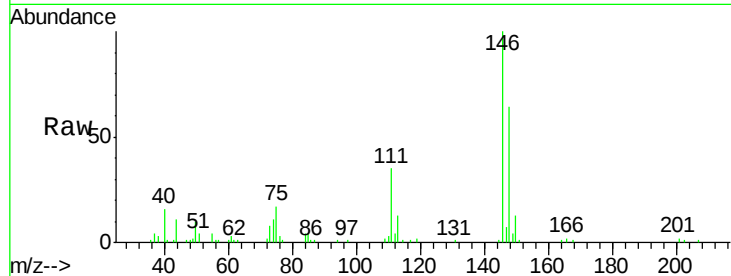




#91
 1,2-Dichlorobenzene
 Concen: 3.330 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

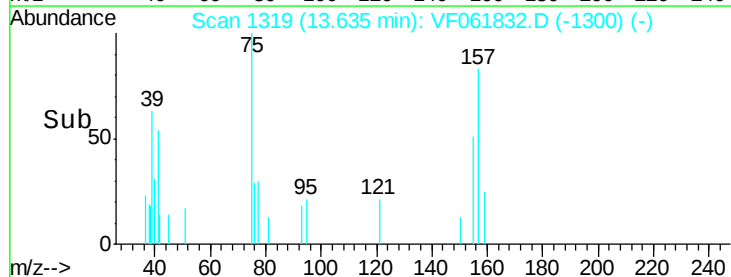
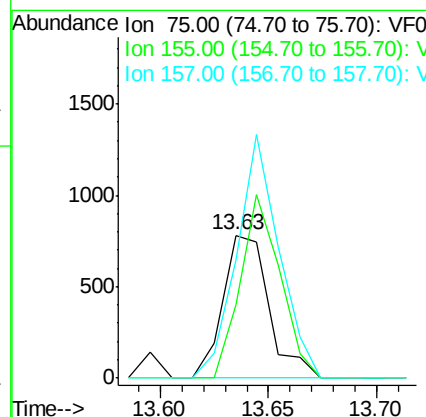
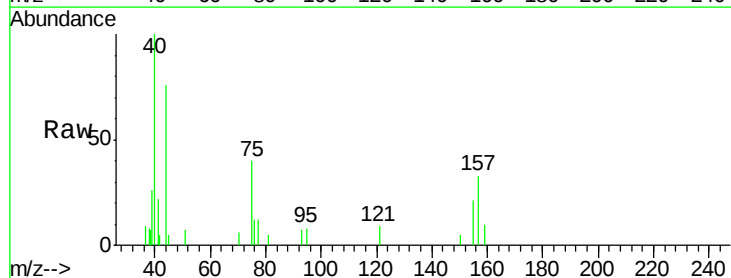
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

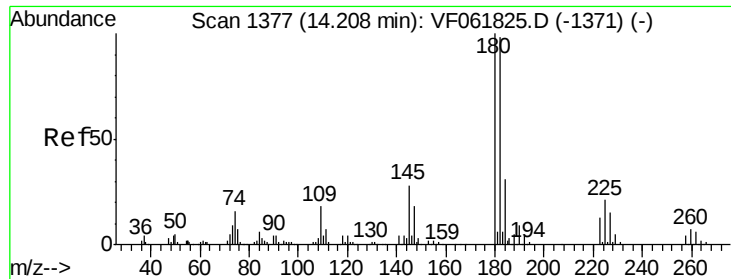
Tot Ion:146 Resp: 22439
 Ion Ratio Lower Upper
 146 100
 111 35.3 19.4 58.4
 148 64.1 33.0 98.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 6.160 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion: 75 Resp: 1162
 Ion Ratio Lower Upper
 75 100
 155 51.2 59.8 179.4#
 157 82.6 81.2 243.4

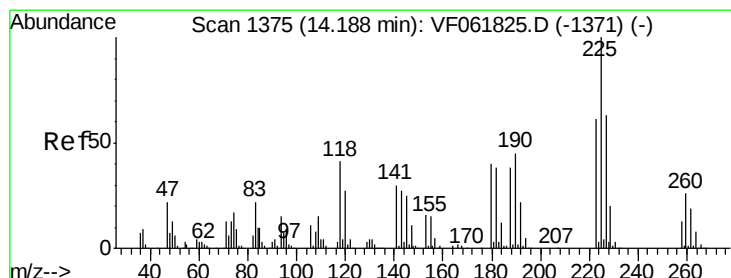
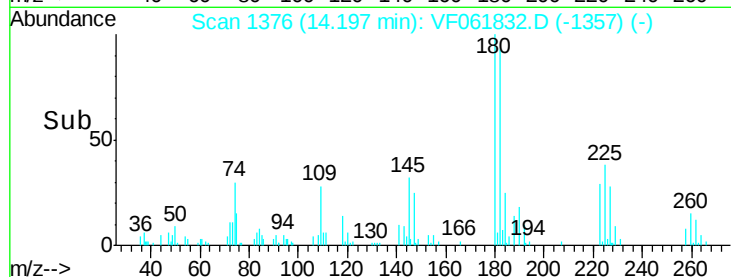
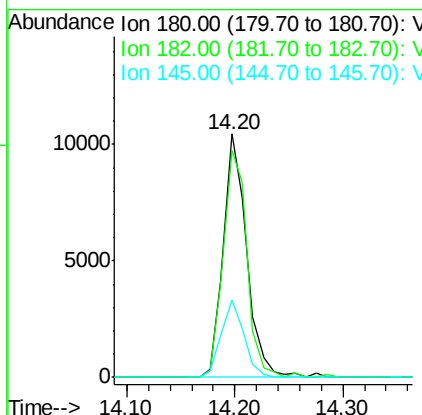
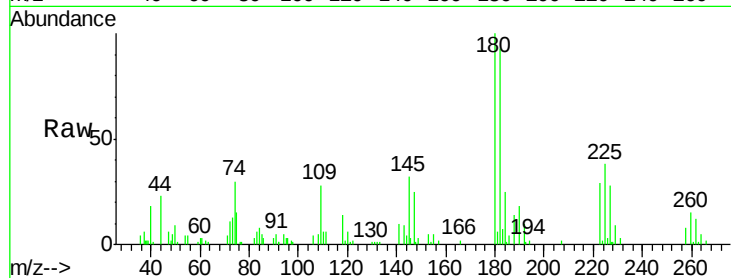




#93
 1,2,4-Trichlorobenzene
 Concen: 3.349 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

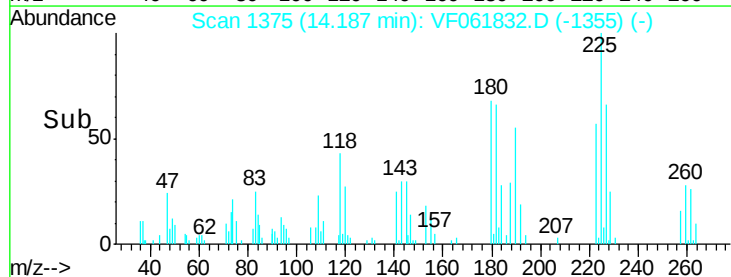
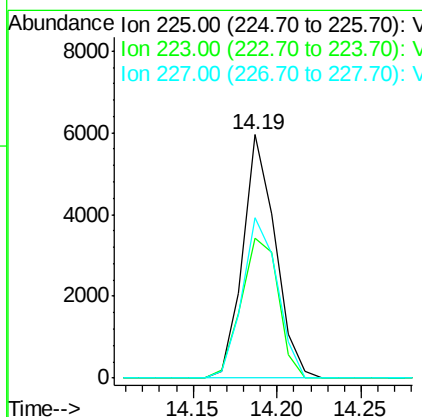
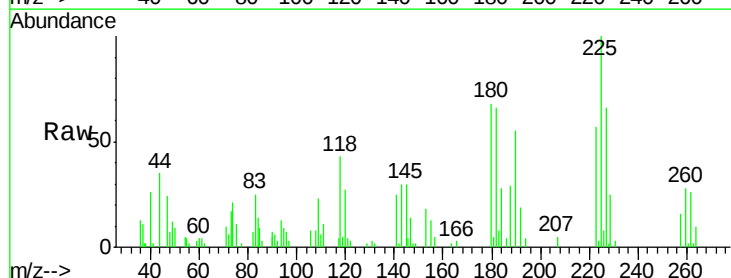
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

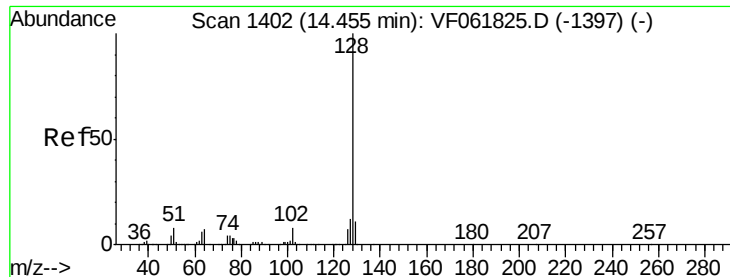
Tot Ion:180 Resp: 15820
 Ion Ratio Lower Upper
 180 100
 182 93.2 49.0 147.2
 145 31.6 14.1 42.4



#94
 Hexachlorobutadiene
 Concen: 2.436 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion:225 Resp: 7965
 Ion Ratio Lower Upper
 225 100
 223 57.4 30.3 90.9
 227 65.8 31.3 93.8

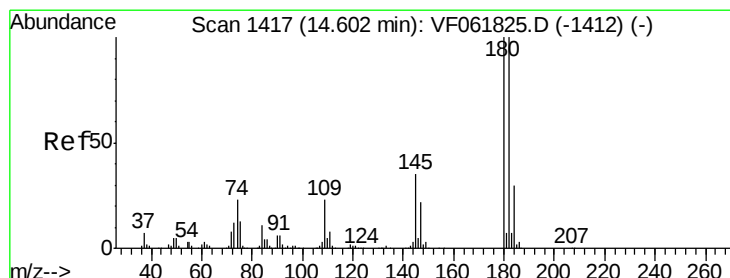
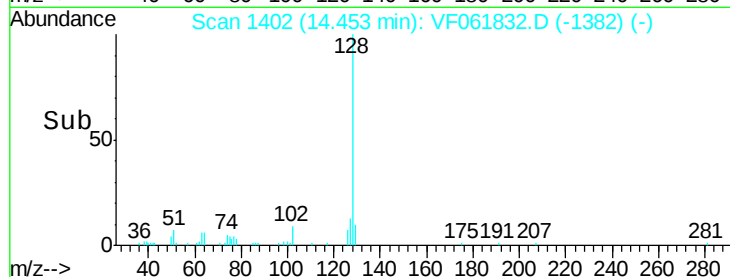
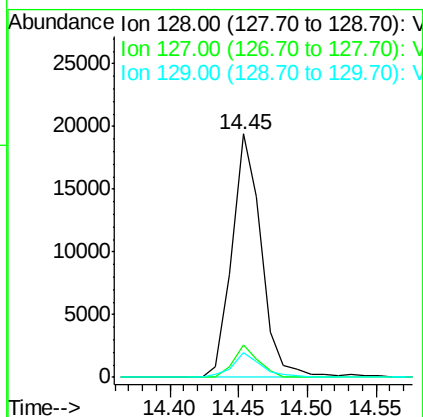
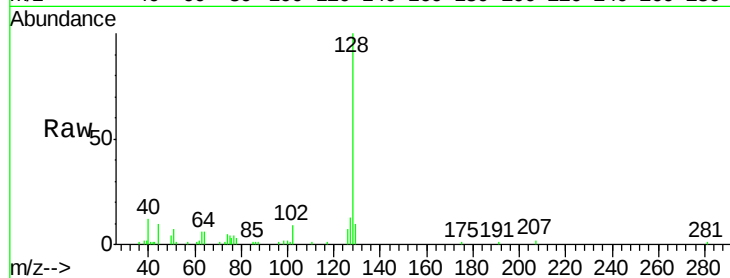




#95
Naphthalene
Concen: 3.422 ug/l
RT: 14.45 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:128 Resp: 28787
Ion Ratio Lower Upper
128 100
127 13.2 9.3 13.9
129 10.3 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 3.315 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion:180 Resp: 14459
Ion Ratio Lower Upper
180 100
182 97.0 50.2 150.7
145 33.0 17.5 52.5

