

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081418\
 Data File : VF059965.D
 Acq On : 15 Aug 2018 1:37
 Operator : VA/AP
 Sample : J3762-03
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Quant Time: Aug 15 11:03:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 15 09:20:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	125481	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.79	114	176214	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.94	117	182355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.65	152	119791	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	112832	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
35) Dibromofluoromethane	4.32	113	89053	50.43	ug/l	0.01
Spiked Amount	50.000		Recovery	=	100.86%	
50) Toluene-d8	7.74	98	193538	49.70	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.40%	
62) 4-Bromofluorobenzene	11.52	95	107931	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	4630	2.49	ug/l	99
3) Chloromethane	1.08	50	2186	2.76	ug/l	95
4) Vinyl Chloride	1.15	62	2169	2.38	ug/l #	84
5) Bromomethane	1.34	94	2216	2.71	ug/l	83
6) Chloroethane	1.43	64	1357	2.30	ug/l	89
7) Trichlorofluoromethane	1.54	101	5727	2.15	ug/l #	72
8) Diethyl Ether	1.71	74	476	1.30	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	1.90	101	3194	2.38	ug/l	97
10) Methyl Iodide	1.97	142	5274	2.52	ug/l #	95
11) Tert butyl alcohol	2.69	59	1403	16.10	ug/l #	64
12) 1,1-Dichloroethene	1.86	96	2423	2.44	ug/l #	72
13) Acrolein	2.05	56	140	19.22	ug/l	96
14) Allyl chloride	2.20	41	3575	2.53	ug/l	93
15) Acrylonitrile	3.09	53	2003	15.16	ug/l	87
16) Acetone	2.35	43	6676	15.33	ug/l #	82
17) Carbon Disulfide	1.88	76	6124	2.40	ug/l	99
18) Methyl Acetate	2.46	43	1927	3.18	ug/l #	85
19) Methyl tert-butyl Ether	2.54	73	7180	2.51	ug/l #	77
20) Methylene Chloride	2.29	84	3208	Below	Cal #	83
21) trans-1,2-Dichloroethene	2.43	96	2482	2.57	ug/l #	87
22) Diisopropyl ether	2.94	45	7761	2.38	ug/l #	97
23) Vinyl Acetate	3.35	43	15848	9.81	ug/l #	94
24) 1,1-Dichloroethane	3.02	63	5079	2.21	ug/l #	89
25) 2-Butanone	4.52	43	5328	12.10	ug/l	99
26) 2,2-Dichloropropane	3.79	77	2888	1.93	ug/l #	77
27) cis-1,2-Dichloroethene	3.66	96	2063	1.93	ug/l	27
28) Bromochloromethane	3.92	49	2050	2.39	ug/l	92
29) Tetrahydrofuran	4.27	42	2677	17.70	ug/l #	66
30) Chloroform	4.06	83	7085	2.24	ug/l	90
31) Cyclohexane	3.87	56	2871	2.50	ug/l #	81
32) 1,1,1-Trichloroethane	4.31	97	5331	2.05	ug/l #	85
36) 1,1-Dichloropropene	4.48	75	4687	2.39	ug/l #	87
37) Ethyl Acetate	4.30	43	2739	3.27	ug/l #	98
38) Carbon Tetrachloride	4.19	117	6618	2.03	ug/l #	79

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	2620	1.84	ug/l	94
40) Benzene	4.83	78	7500	2.26	ug/l #	87
41) Methacrylonitrile	4.94	41	889	2.15	ug/l #	43
42) 1,2-Dichloroethane	5.14	62	5304	2.01	ug/l #	86
43) Isopropyl Acetate	7.14	43	2395	2.62	ug/l	92
44) Trichloroethene	5.70	130	2795	2.19	ug/l	72
45) 1,2-Dichloropropane	6.42	63	2293	2.62	ug/l	89
46) Dibromomethane	6.26	93	1849	2.14	ug/l #	61
47) Bromodichloromethane	6.57	83	5167	2.07	ug/l	95
48) Methyl methacrylate	6.89	41	1273	1.87	ug/l #	82
49) 1,4-Dioxane	6.91	88	89	17.30	ug/l #	19
51) 4-Methyl-2-Pentanone	8.43	43	9781	11.06	ug/l	97
52) Toluene	7.80	92	6056	2.47	ug/l	98
53) t-1,3-Dichloropropene	8.45	75	4324	2.12	ug/l	95
54) cis-1,3-Dichloropropene	7.48	75	3685	1.88	ug/l #	68
55) 1,1,2-Trichloroethane	8.66	97	1960	2.34	ug/l #	83
56) Ethyl methacrylate	8.78	69	1945	2.16	ug/l #	87
57) 1,3-Dichloropropane	9.02	76	3307	2.14	ug/l #	84
58) 2-Chloroethyl Vinyl ether	7.80	63	1295	10.68	ug/l	100
59) 2-Hexanone	9.65	43	7419	11.50	ug/l	98
60) Dibromochloromethane	8.88	129	3510	2.11	ug/l	91
61) 1,2-Dibromoethane	9.15	107	2649	2.53	ug/l #	58
64) Tetrachloroethene	8.32	164	3065	2.16	ug/l #	93
65) Chlorobenzene	9.97	112	7929	2.25	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.08	131	3136	1.84	ug/l	92
67) Ethyl Benzene	10.05	91	12406	1.99	ug/l #	81
68) m/p-Xylenes	10.29	106	8890	4.25	ug/l	82
69) o-Xylene	10.84	106	3631	1.60	ug/l	68
70) Styrene	10.92	104	6480	1.93	ug/l	91
71) Bromoform	10.89	173	2290	2.16	ug/l	81
73) Isopropylbenzene	11.25	105	13283	1.76	ug/l	96
74) N-amyl acetate	11.48	43	3029	1.82	ug/l #	89
75) 1,1,2,2-Tetrachloroethane	11.80	83	2920	2.31	ug/l	90
76) 1,2,3-Trichloropropane	11.91	75	2790	2.55	ug/l	87
77) Bromobenzene	11.61	156	4384	2.22	ug/l	85
78) n-propylbenzene	11.70	91	18912	2.14	ug/l	99
79) 2-Chlorotoluene	11.83	91	11129	2.01	ug/l	83
80) 1,3,5-Trimethylbenzene	11.93	105	12536	1.79	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.98	75	1609	3.61	ug/l #	83
82) 4-Chlorotoluene	12.01	91	12993	2.13	ug/l	84
83) tert-Butylbenzene	12.23	119	13444	1.95	ug/l	93
84) 1,2,4-Trimethylbenzene	12.30	105	13433	1.90	ug/l	96
85) sec-Butylbenzene	12.40	105	16768	1.90	ug/l	96
86) p-Isopropyltoluene	12.55	119	14449	1.86	ug/l	93
87) 1,3-Dichlorobenzene	12.57	146	9073	2.42	ug/l	95
88) 1,4-Dichlorobenzene	12.66	146	8485	2.30	ug/l	97
89) n-Butylbenzene	12.93	91	13984	1.87	ug/l	90
90) Hexachloroethane	13.01	117	4040	2.10	ug/l	88
91) 1,2-Dichlorobenzene	13.03	146	8091	2.22	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.72	75	674	1.96	ug/l	84

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Quant Title : SW846 8260
QLast Update : Wed Aug 15 09:20:23 2018
Response via : Initial Calibration

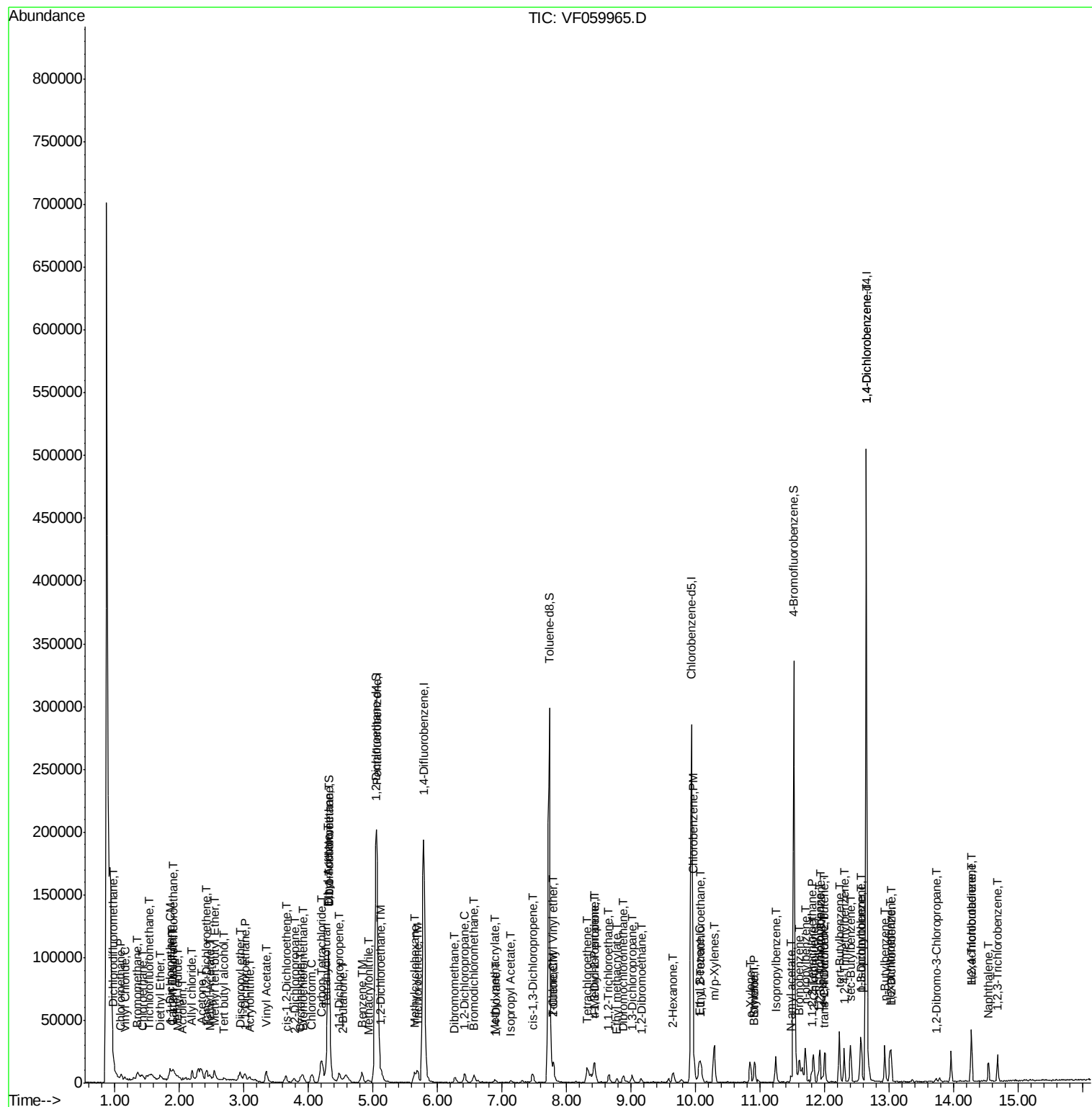
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.28	180	6736	2.31	ug/l	89
94) Hexachlorobutadiene	14.26	225	4225	2.03	ug/l	88
95) Naphthalene	14.53	128	10154	2.13	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.68	180	5897	2.12	ug/l	93

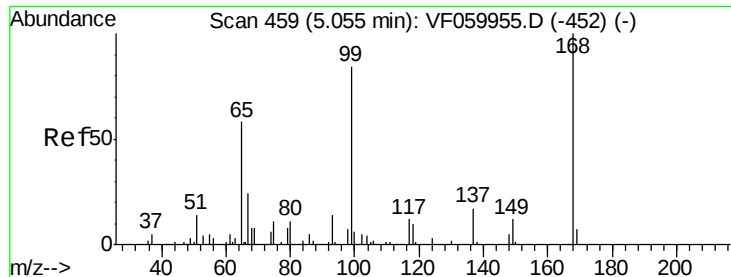
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

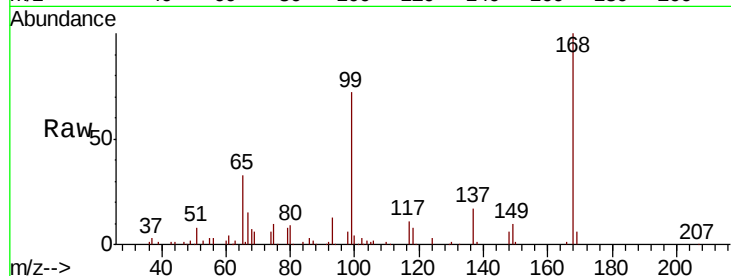
MDL-SOIL-03-QT3-2018

Tot Ion:168 Resp: 125481

Ion Ratio Lower Upper

168 100

99 72.1 67.4 101.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

40000

30000

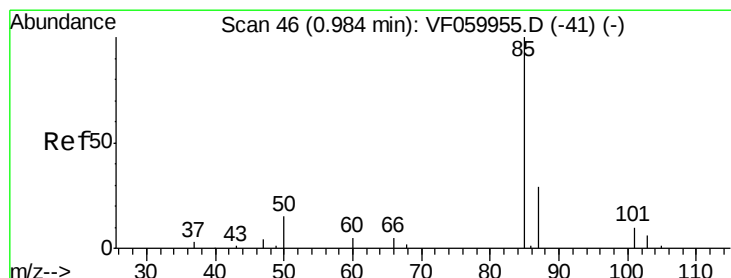
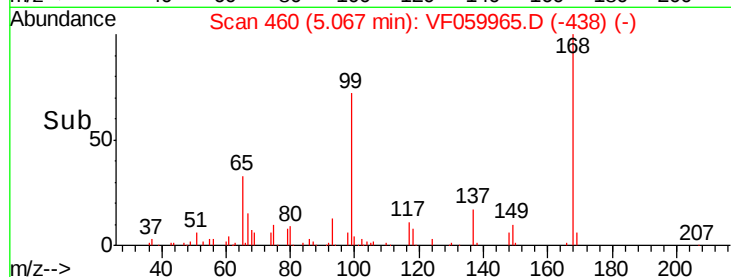
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 2.49 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059965.D

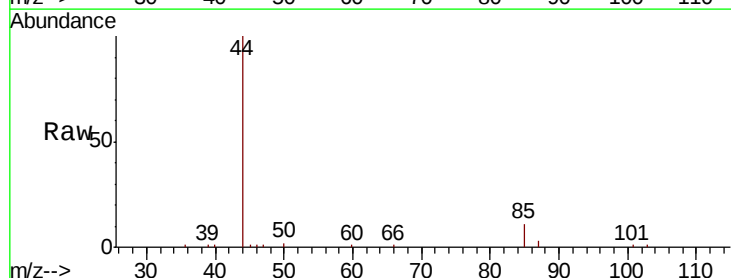
Acq: 15 Aug 2018 1:37

Tgt Ion: 85 Resp: 4630

Ion Ratio Lower Upper

85 100

87 29.6 14.4 43.4



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

1500

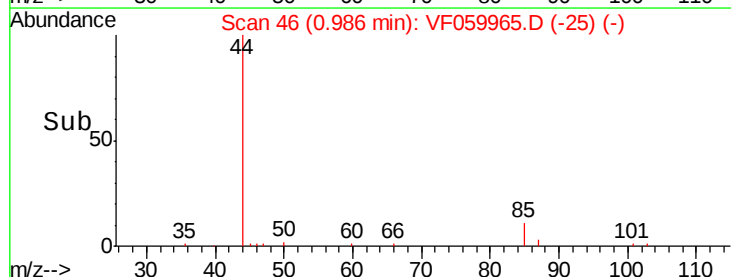
1000

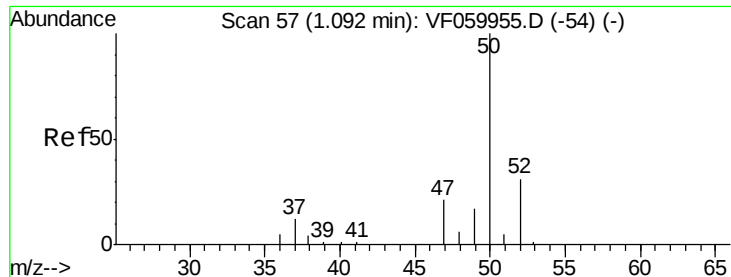
500

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 2.76 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

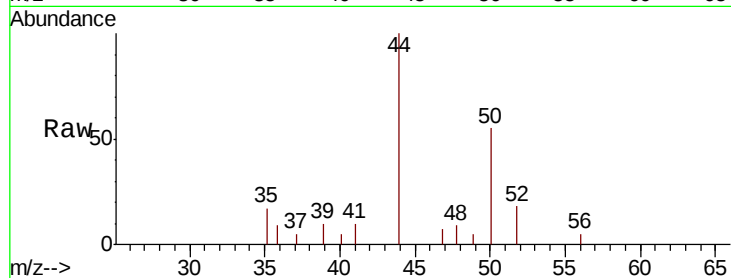
MDL-SOIL-03-QT3-2018

Tot Ion: 50 Resp: 2186

Ion Ratio Lower Upper

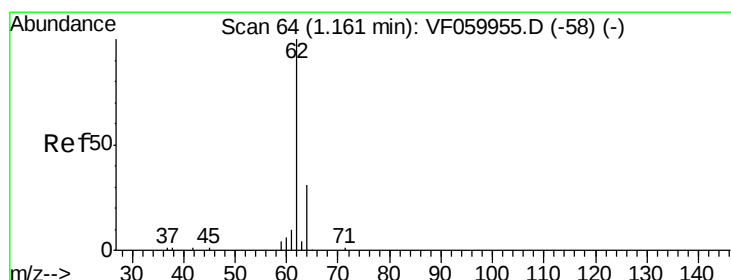
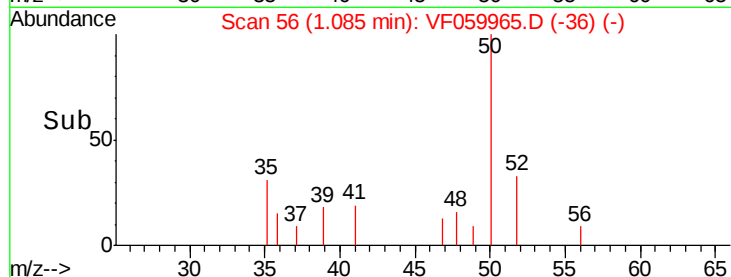
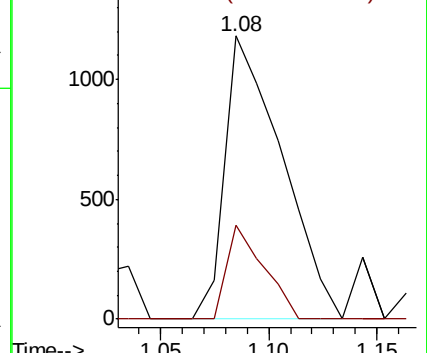
50 100

52 33.0 24.2 36.2



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 2.38 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF059965.D

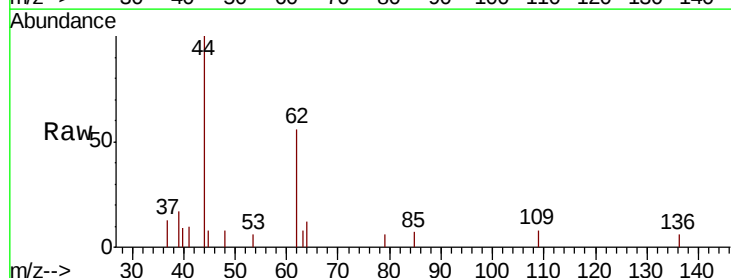
Acq: 15 Aug 2018 1:37

Tgt Ion: 62 Resp: 2169

Ion Ratio Lower Upper

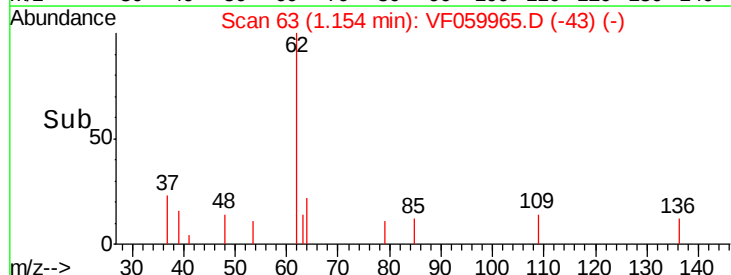
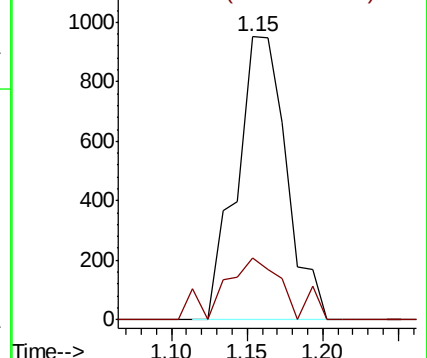
62 100

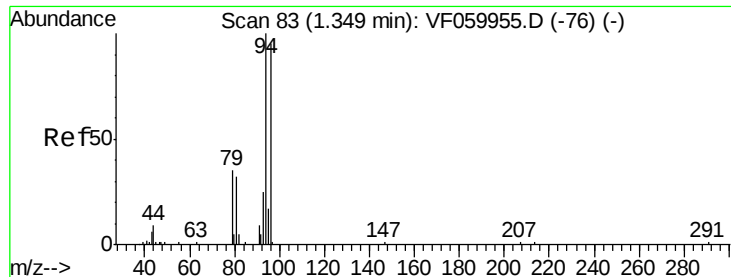
64 21.9 24.7 37.1#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 2.71 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

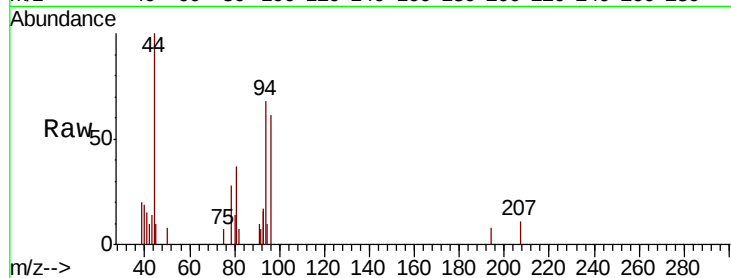
MDL-SOIL-03-QT3-2018

Tot Ion: 94 Resp: 2216

Ion Ratio Lower Upper

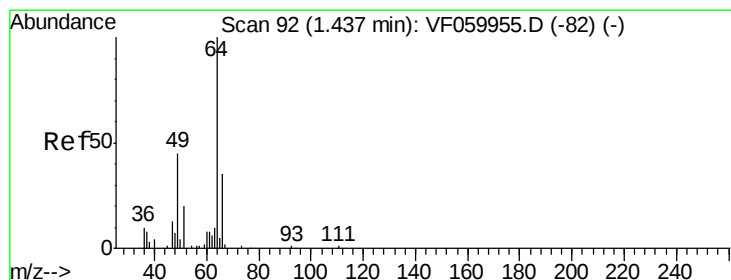
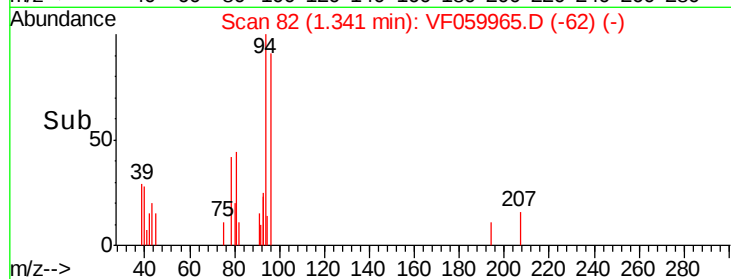
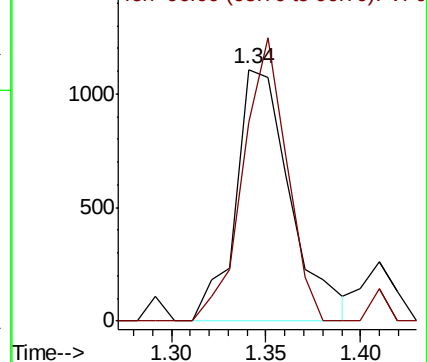
94 100

96 79.3 76.3 114.5



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 2.30 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF059965.D

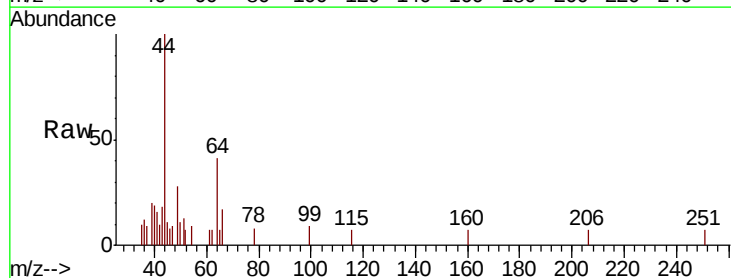
Acq: 15 Aug 2018 1:37

Tgt Ion: 64 Resp: 1357

Ion Ratio Lower Upper

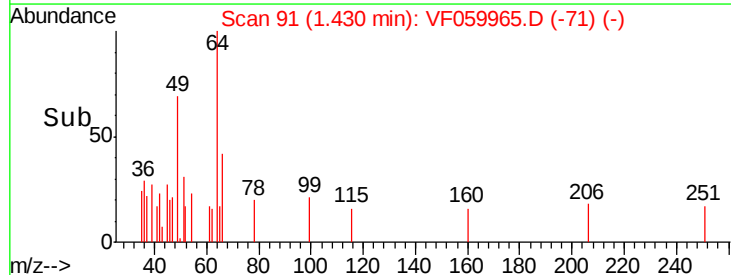
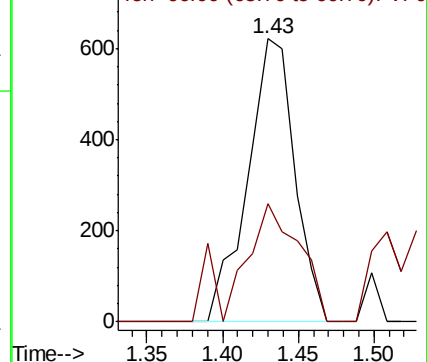
64 100

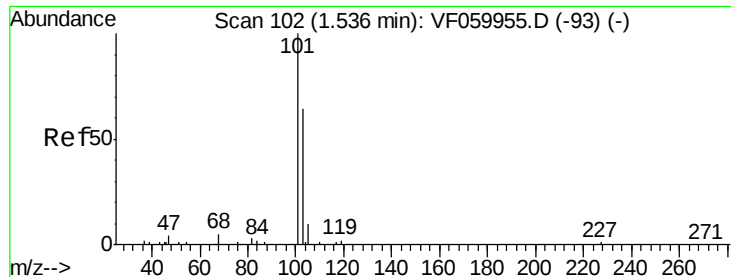
66 41.6 28.2 42.2



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 2.15 ug/l

RT: 1.54 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

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ClientSampleId :

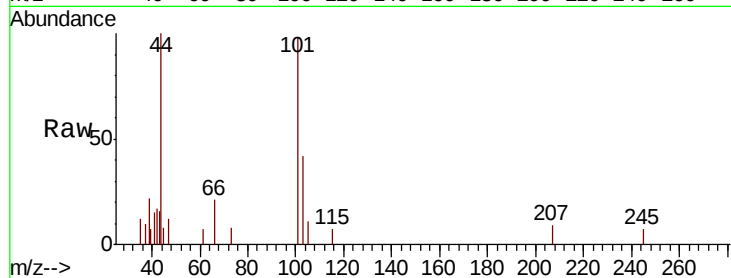
MDL-SOIL-03-QT3-2018

Tot Ion:101 Resp: 5727

Ion Ratio Lower Upper

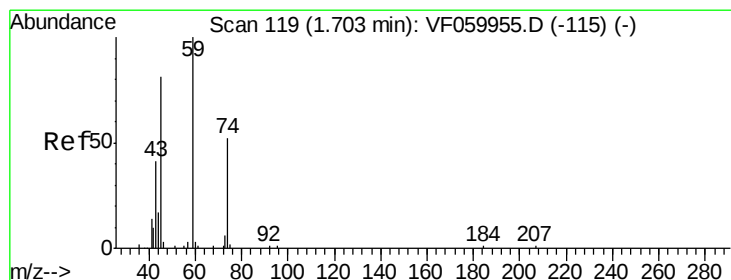
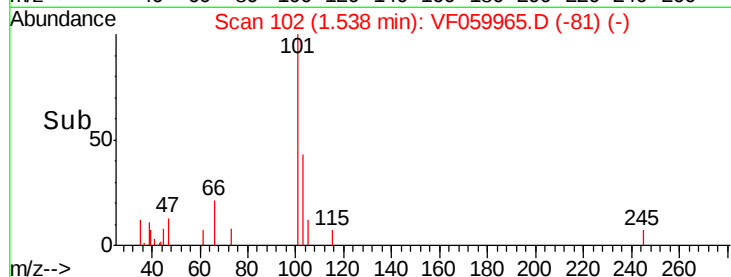
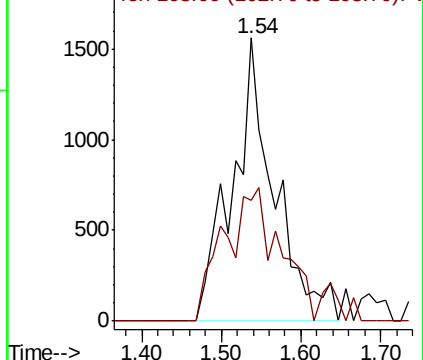
101 100

103 42.7 51.6 77.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 1.30 ug/l

RT: 1.71 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF059965.D

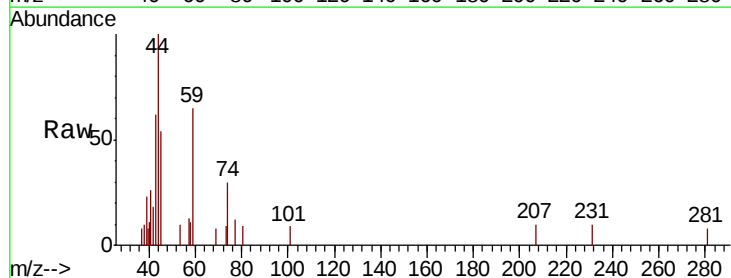
Acq: 15 Aug 2018 1:37

Tgt Ion: 74 Resp: 476

Ion Ratio Lower Upper

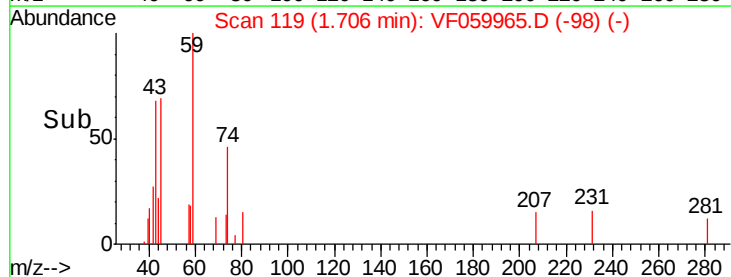
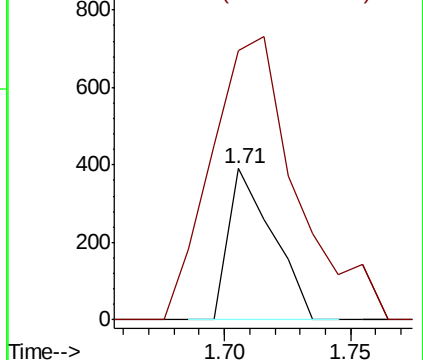
74 100

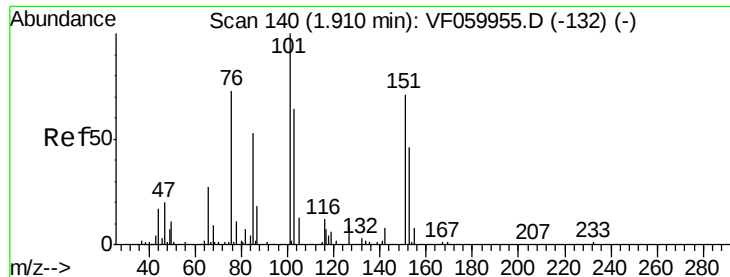
45 178.2 77.5 232.6



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: 2.38 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

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ClientSampleId :

MDL-SOIL-03-QT3-2018

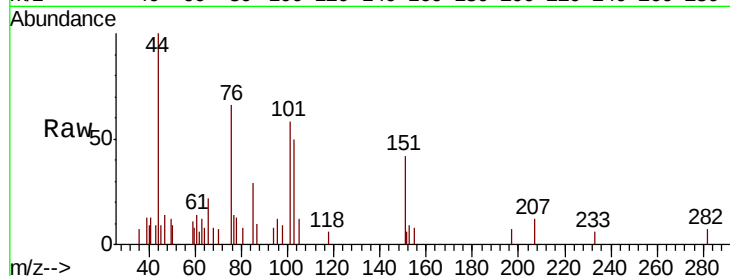
Tot Ion:101 Resp: 3194

Ion Ratio Lower Upper

101 100

85 50.3 42.1 63.1

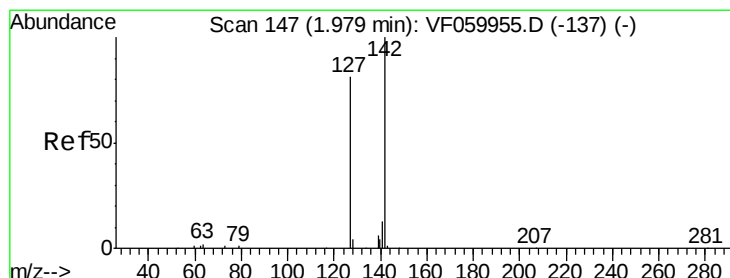
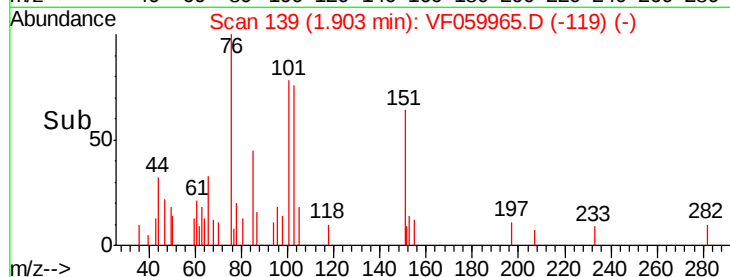
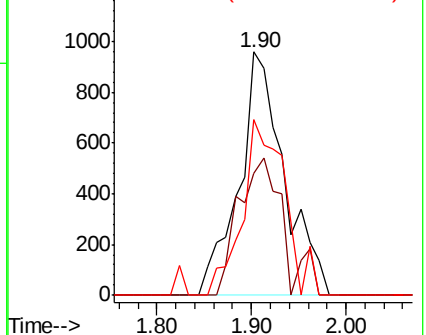
151 72.1 55.4 83.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 2.52 ug/l

RT: 1.97 min Scan# 146

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

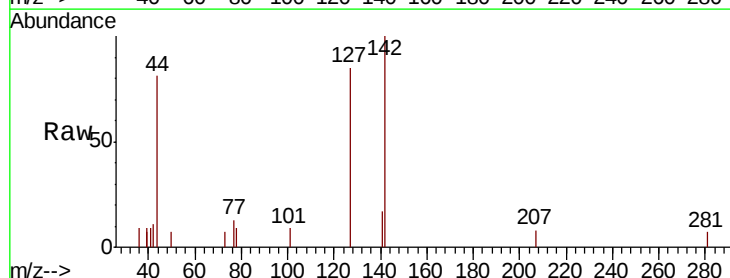
Tgt Ion:142 Resp: 5274

Ion Ratio Lower Upper

142 100

127 84.9 64.5 96.7

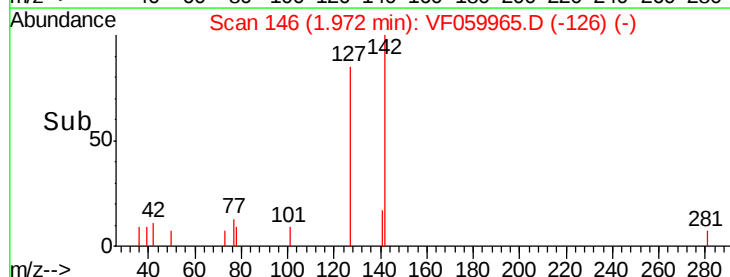
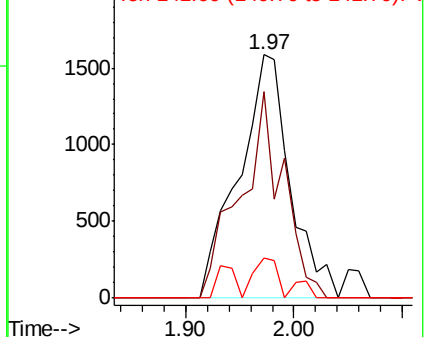
141 16.7 10.8 16.2#

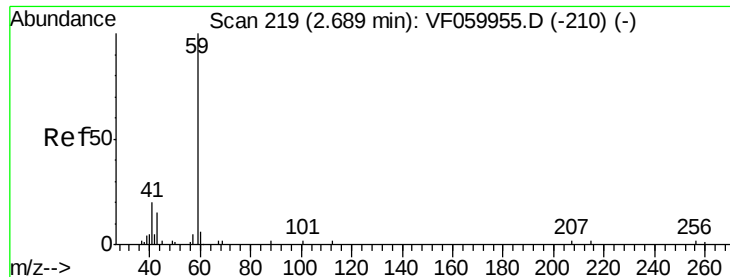


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#11

Tert butyl alcohol

Concen: 16.10 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

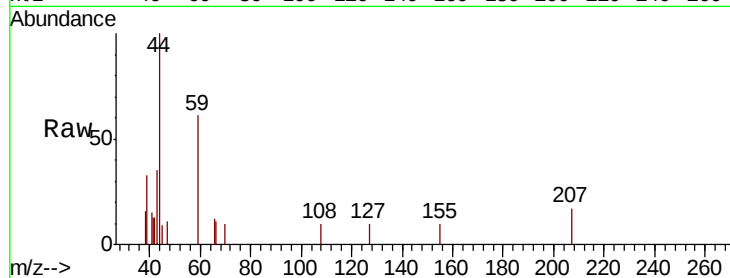
MDL-SOIL-03-QT3-2018

Tot Ion: 59 Resp: 1403

Ion Ratio Lower Upper

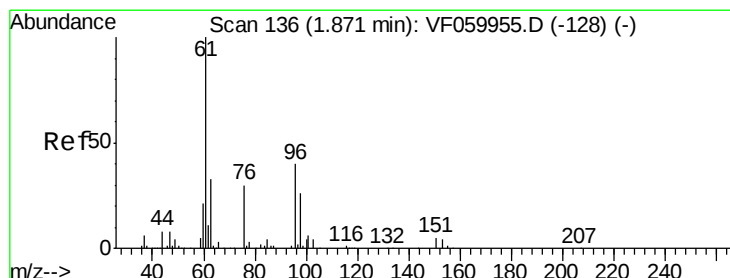
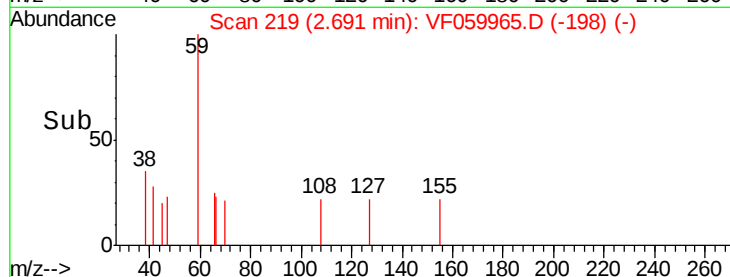
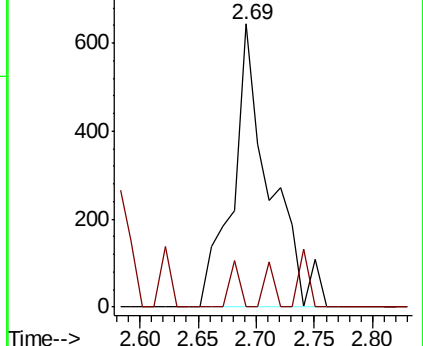
59 100

57 0.0 12.0 18.0#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#12

1,1-Dichloroethene

Concen: 2.44 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

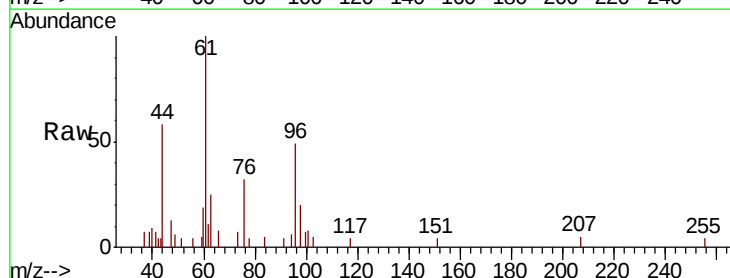
Tgt Ion: 96 Resp: 2423

Ion Ratio Lower Upper

96 100

61 204.0 201.0 301.4

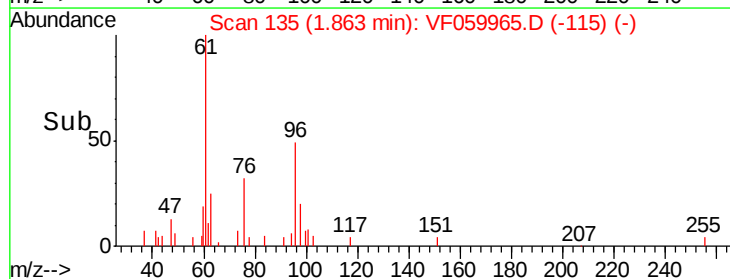
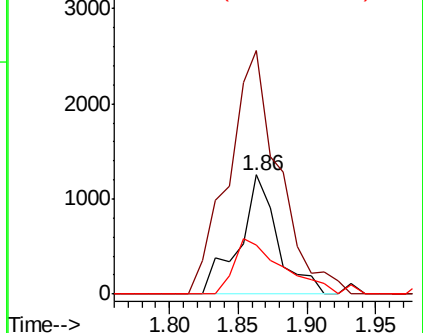
98 41.6 51.9 77.9#

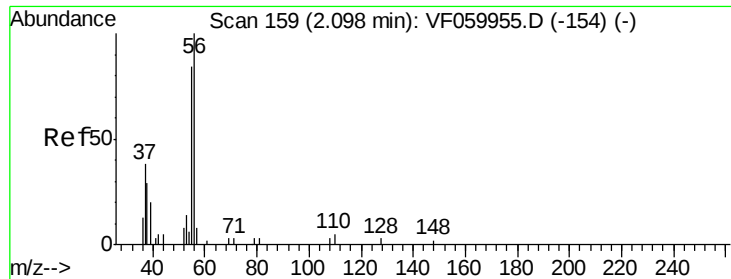


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#13

Acrolein

Concen: 19.22 ug/l

RT: 2.05 min Scan# 154

Delta R.T. -0.05 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

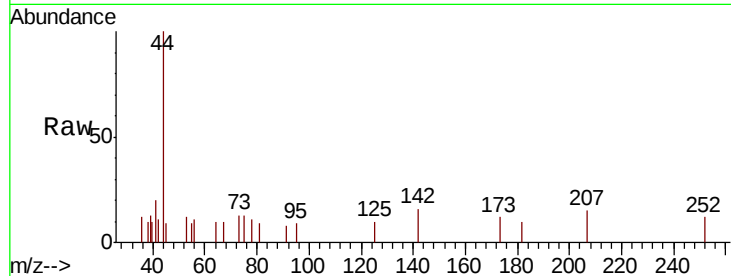
MDL-SOIL-03-QT3-2018

Tot Ion: 56 Resp: 140

Ion Ratio Lower Upper

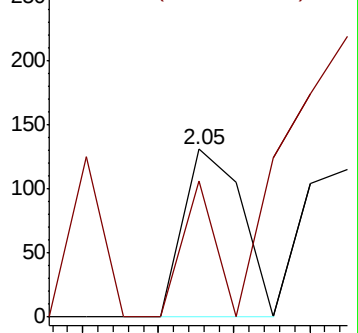
56 100

55 80.9 67.4 101.2

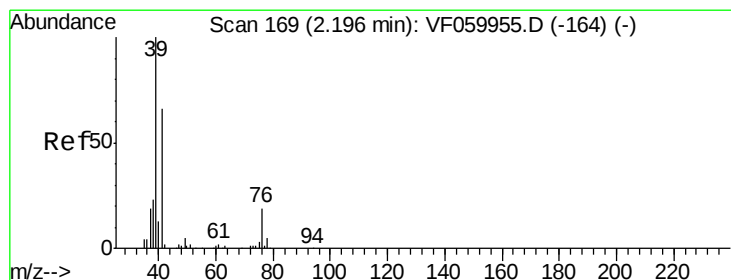
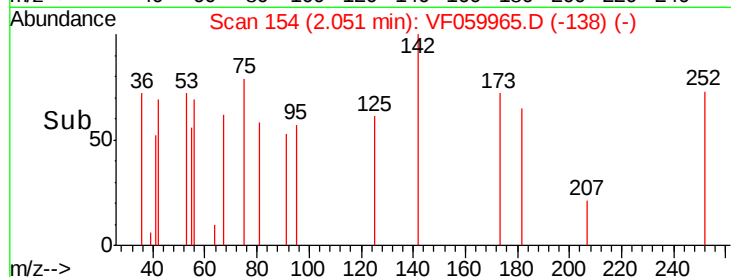


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#14

Allyl chloride

Concen: 2.53 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

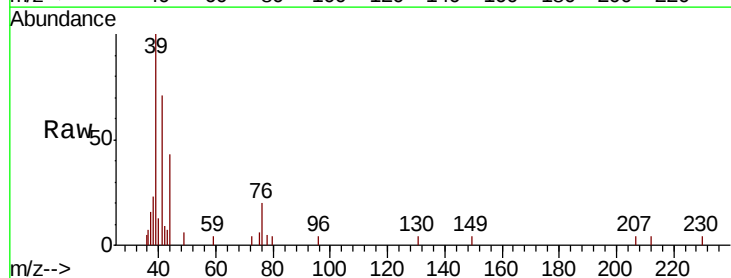
Tgt Ion: 41 Resp: 3575

Ion Ratio Lower Upper

41 100

39 140.6 121.0 181.4

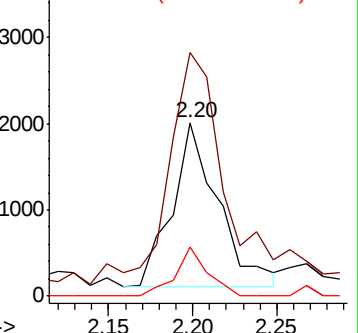
76 28.3 23.6 35.4



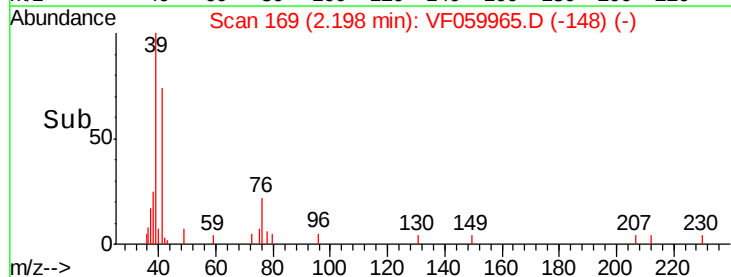
Abundance Ion 41.00 (40.70 to 41.70): VF0

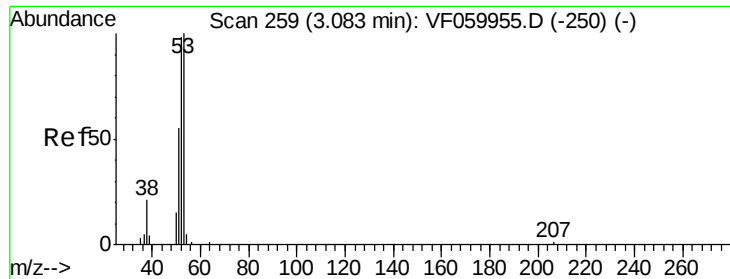
Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->





#15

Acrylonitrile

Concen: 15.16 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

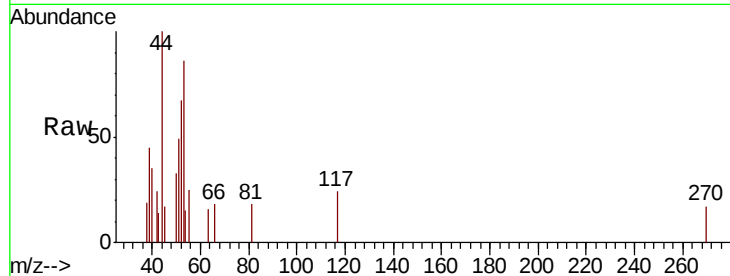
Tot Ion: 53 Resp: 2003

Ion Ratio Lower Upper

53 100

52 78.3 78.1 117.1

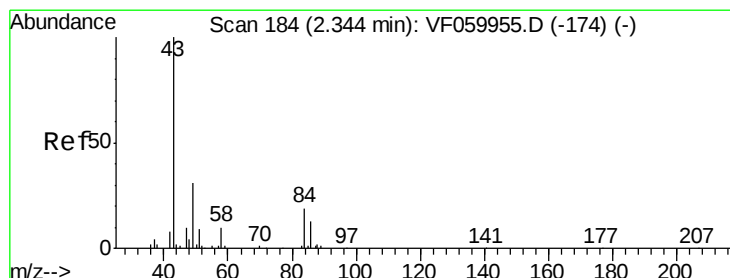
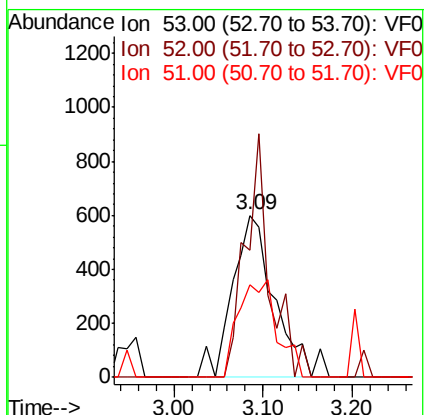
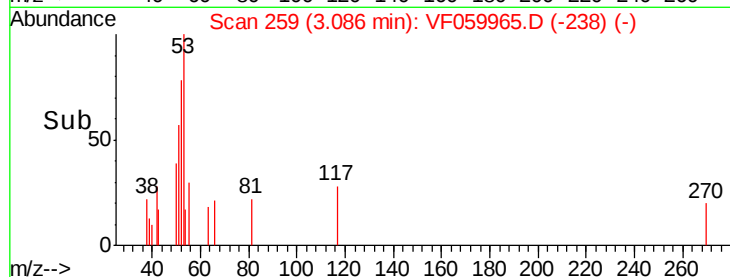
51 56.8 44.2 66.4



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 15.33 ug/l

RT: 2.35 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF059965.D

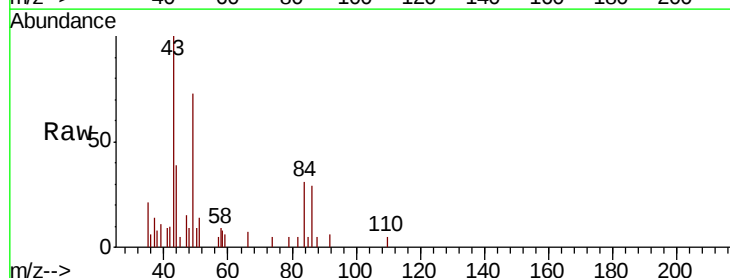
Acq: 15 Aug 2018 1:37

Tgt Ion: 43 Resp: 6676

Ion Ratio Lower Upper

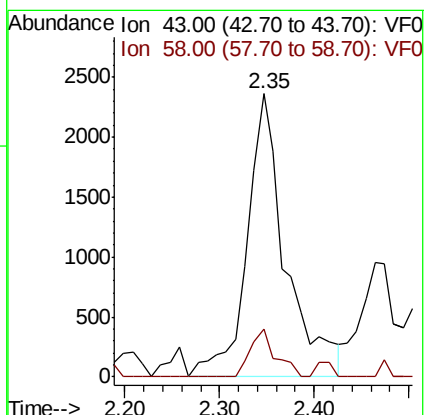
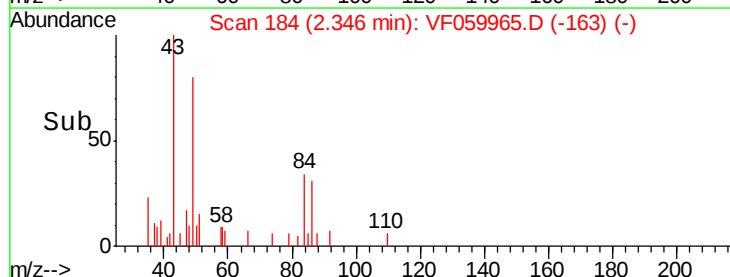
43 100

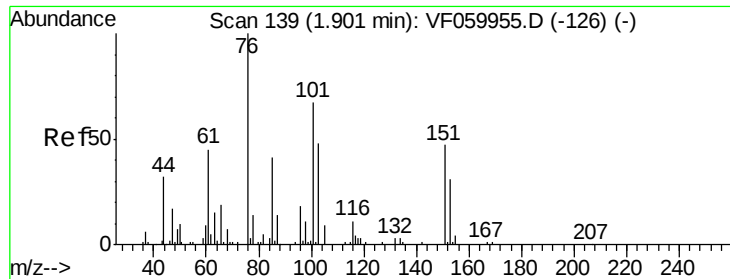
58 16.9 8.1 12.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

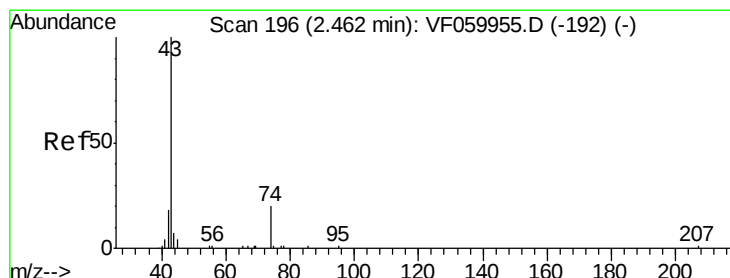
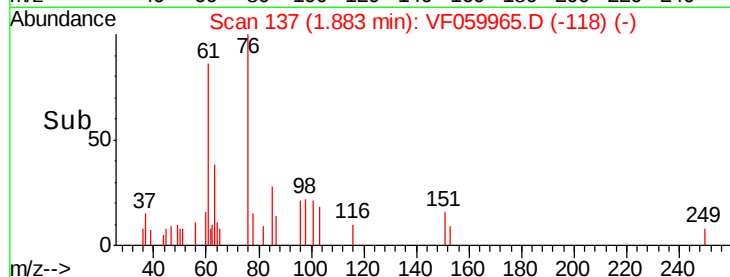
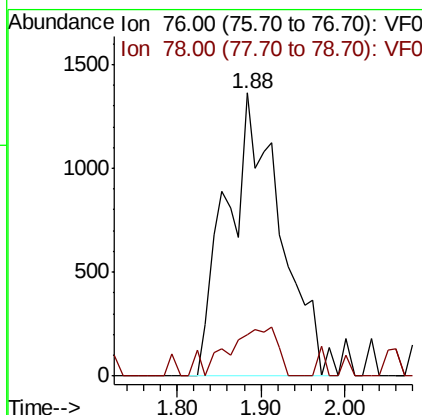
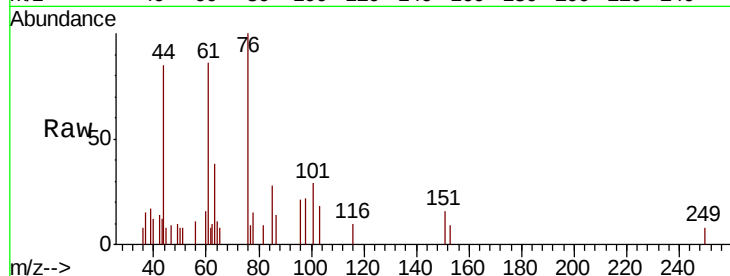




#17
Carbon Disulfide
Concen: 2.40 ug/l
RT: 1.88 min Scan# 137
Delta R.T. -0.02 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

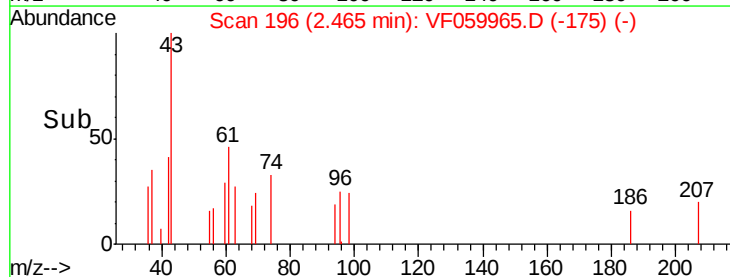
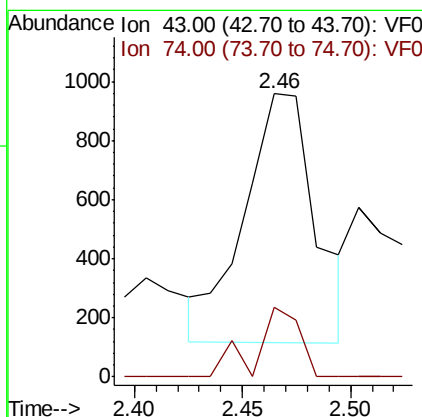
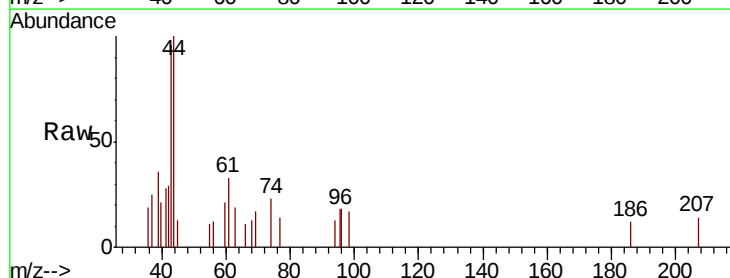
Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

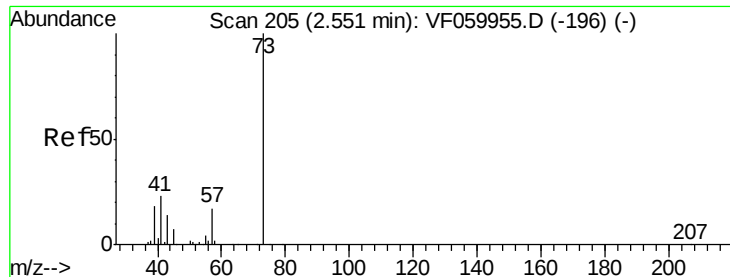
Tot Ion: 76 Resp: 6124
Ion Ratio Lower Upper
76 100
78 14.6 11.4 17.0



#18
Methyl Acetate
Concen: 3.18 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion: 43 Resp: 1927
Ion Ratio Lower Upper
43 100
74 24.4 14.3 21.5#

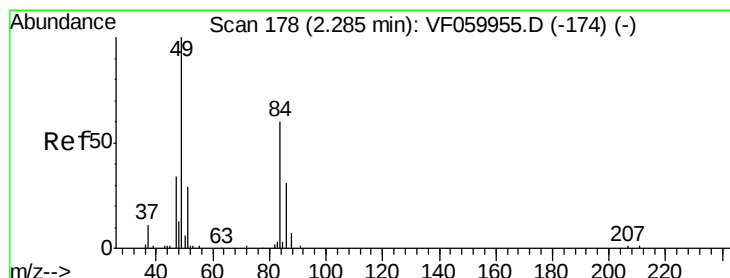
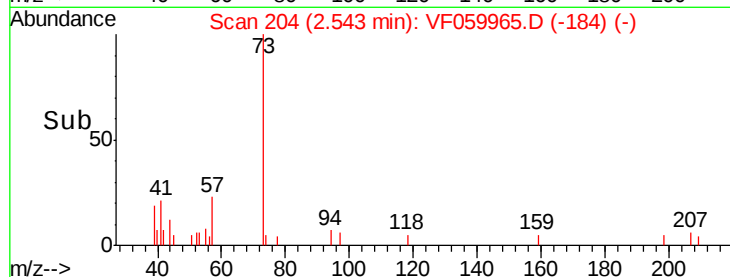
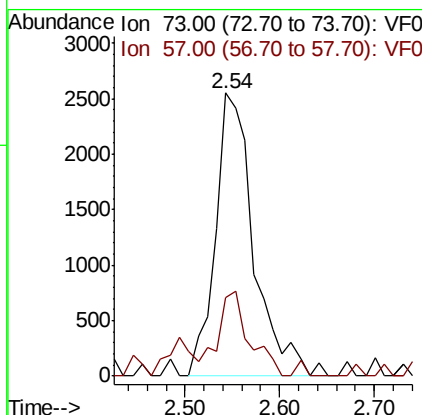
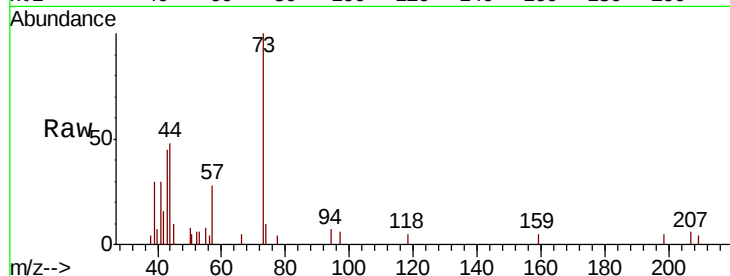




#19
Methvl tert-butvl Ether
Concen: 2.51 ua/l
RT: 2.54 min Scan# 204
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

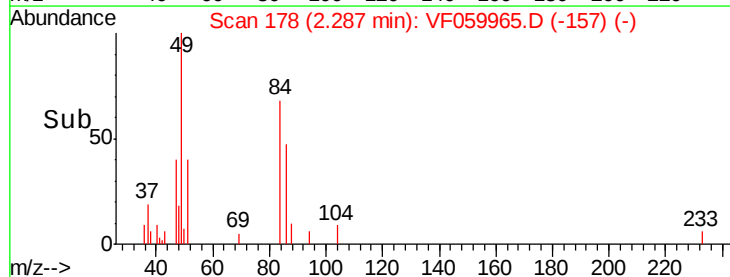
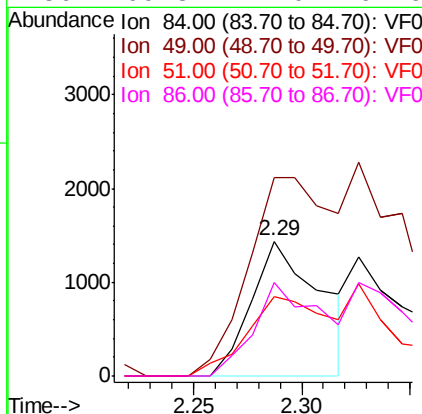
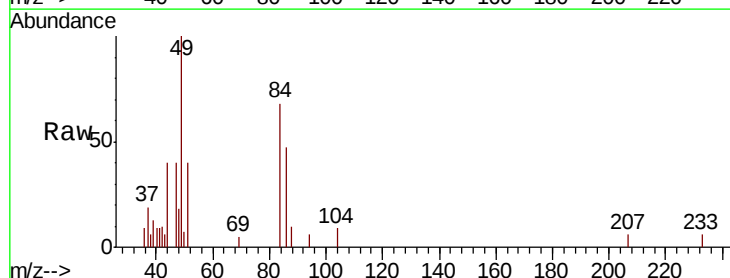
Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

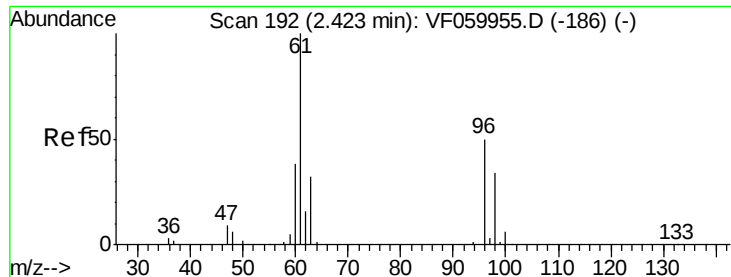
Tot Ion: 73 Resp: 7180
Ion Ratio Lower Upper
73 100
57 27.5 14.0 21.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.29 min Scan# 178
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion: 84 Resp: 3208
Ion Ratio Lower Upper
84 100
49 147.1 134.8 202.2
51 58.8 39.8 59.6
86 69.3 41.0 61.6#





#21

trans-1,2-Dichloroethene

Concen: 2.57 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

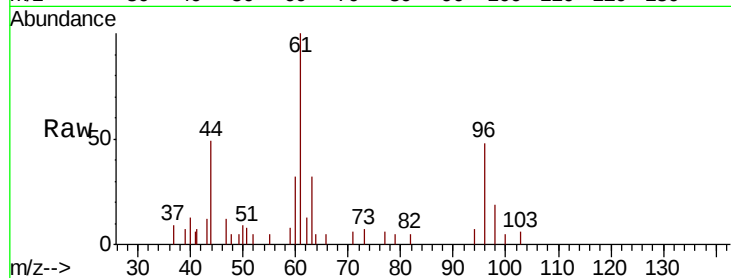
Tot Ion: 96 Resp: 2482

Ion Ratio Lower Upper

96 100

61 208.5 159.5 239.3

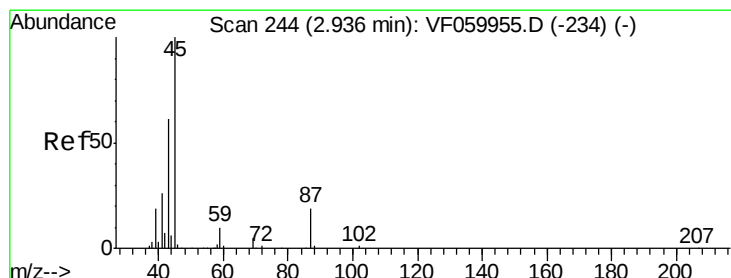
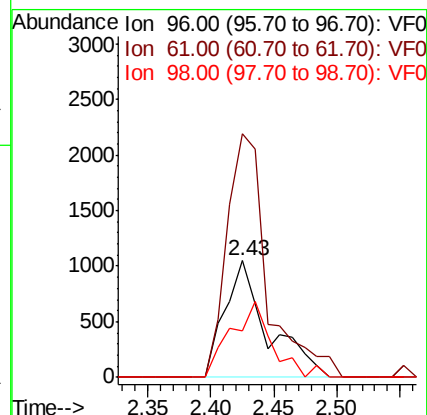
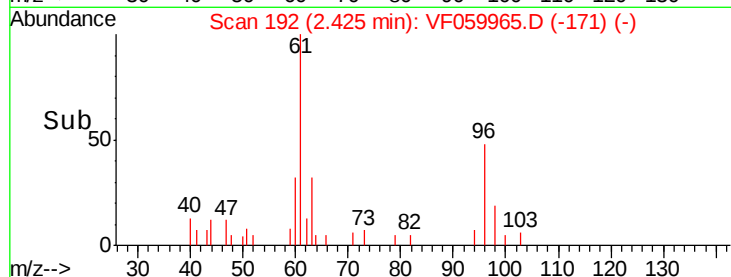
98 40.2 53.8 80.6#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 2.38 ug/l

RT: 2.94 min Scan# 244

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion: 45 Resp: 7761

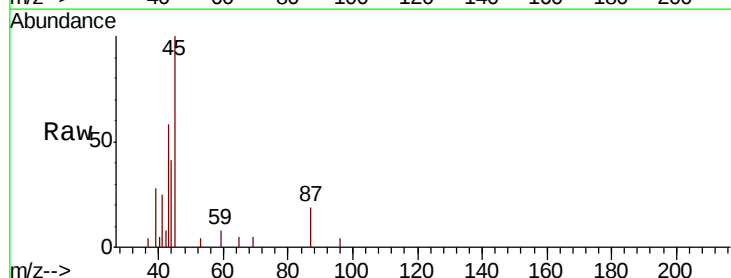
Ion Ratio Lower Upper

45 100

43 58.4 48.7 73.1

87 19.2 15.3 22.9

59 7.9 8.5 12.7#

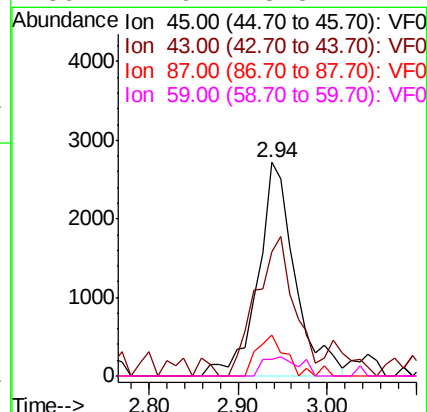
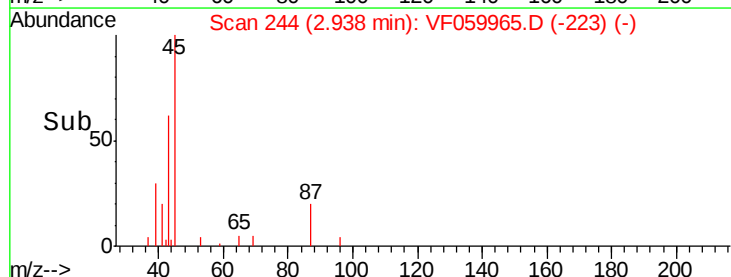


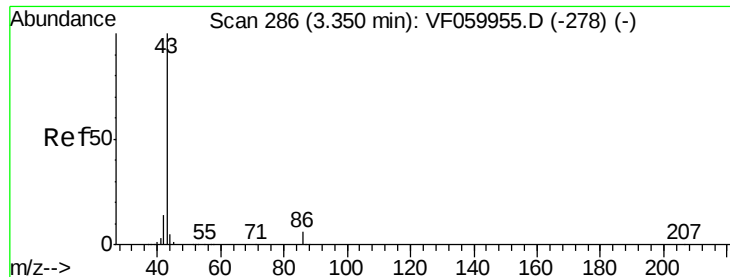
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 9.81 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

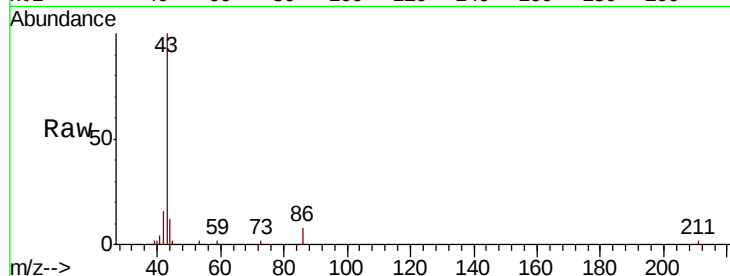
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 15848

Ion Ratio Lower Upper

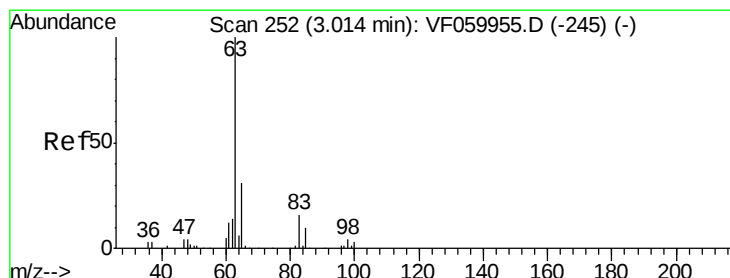
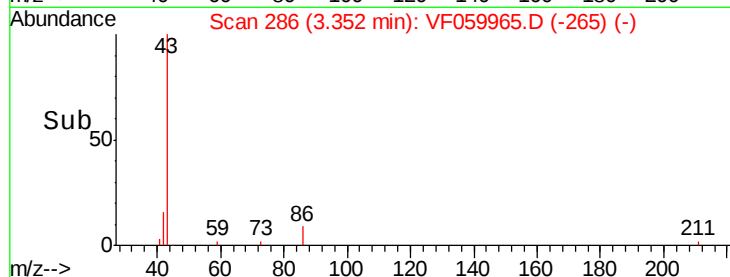
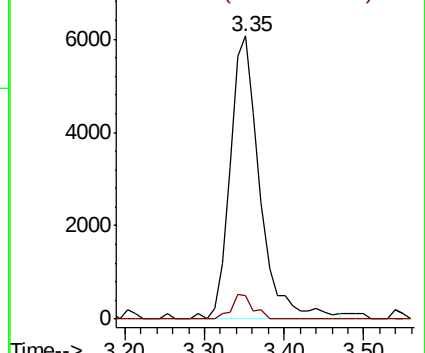
43 100

86 8.3 4.9 7.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 2.21 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

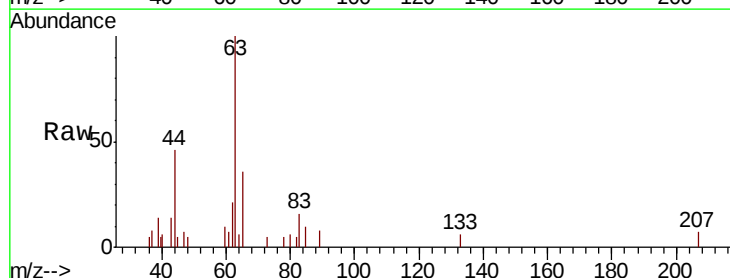
Tgt Ion: 63 Resp: 5079

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.2#

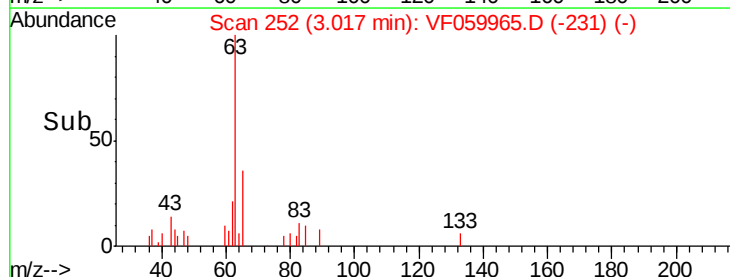
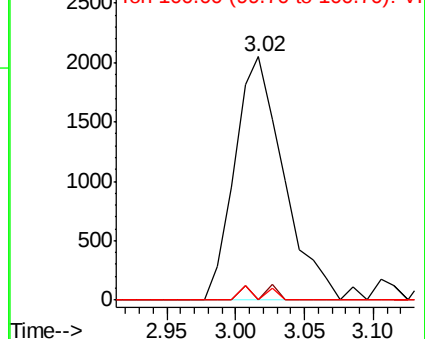
100 0.0 1.7 5.1#

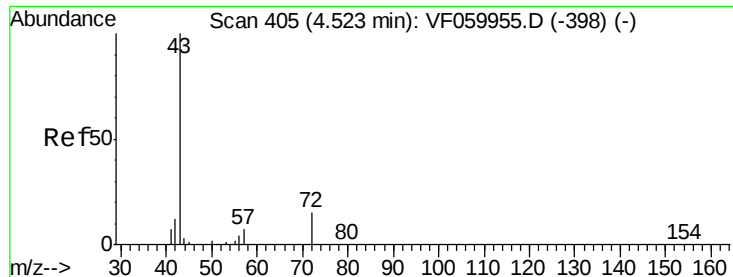


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 12.10 ug/l

RT: 4.52 min Scan# 405

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

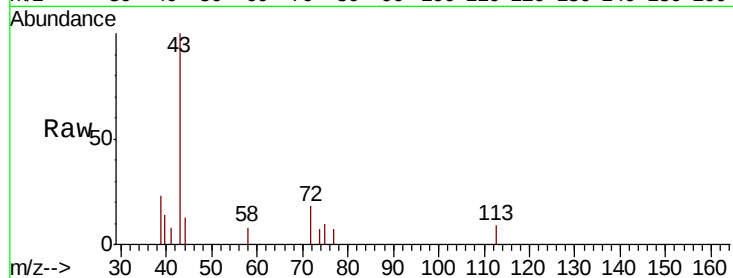
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 5328

Ion Ratio Lower Upper

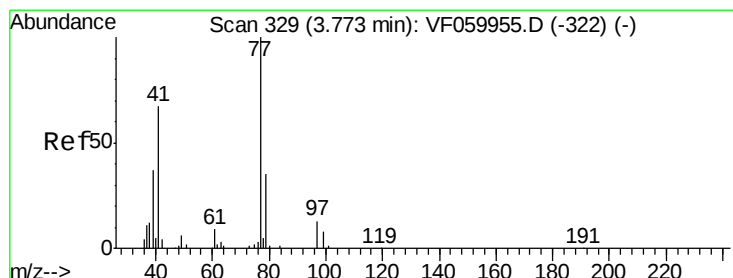
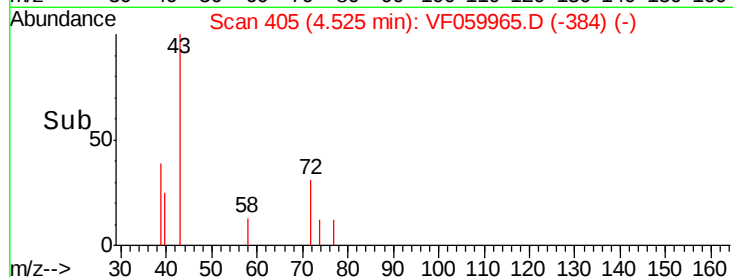
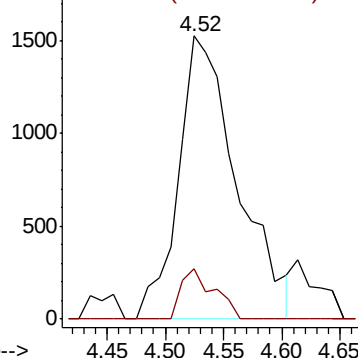
43 100

72 17.8 14.6 22.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 1.93 ug/l

RT: 3.79 min Scan# 330

Delta R.T. 0.01 min

Lab File: VF059965.D

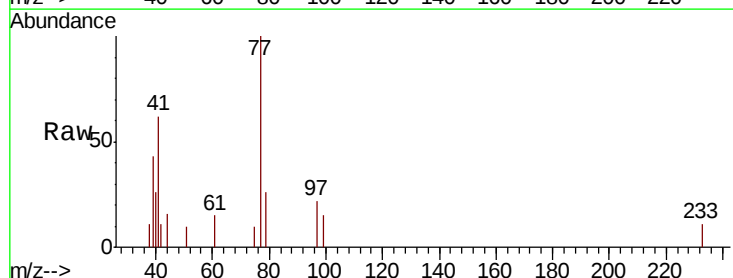
Acq: 15 Aug 2018 1:37

Tgt Ion: 77 Resp: 2888

Ion Ratio Lower Upper

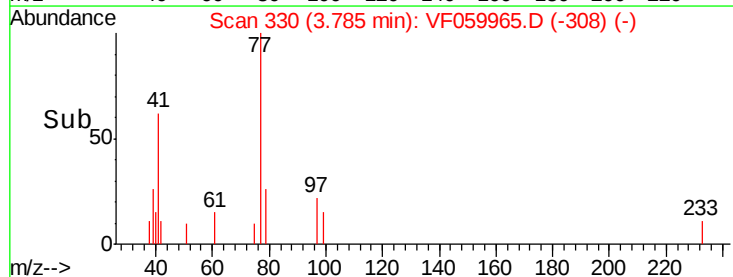
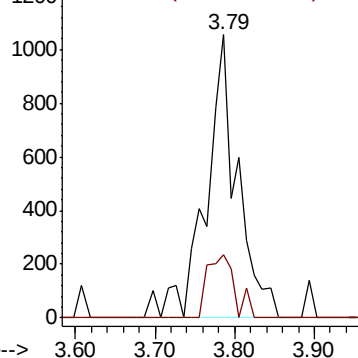
77 100

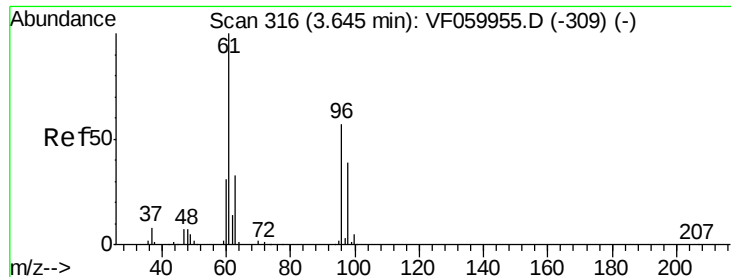
97 22.2 6.6 19.7#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

cis-1,2-Dichloroethene

Concen: 1.93 ug/l

RT: 3.66 min Scan# 317

Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

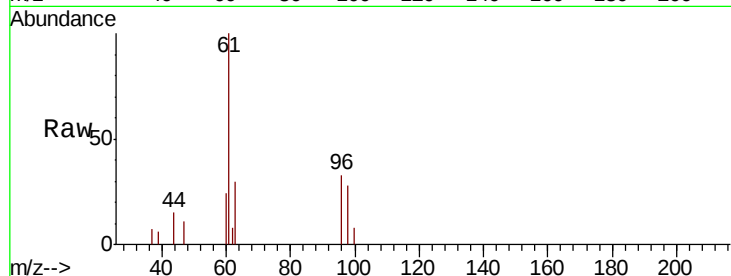
Tot Ion: 96 Resp: 2063

Ion Ratio Lower Upper

96 100

61 304.7 0.0 349.4

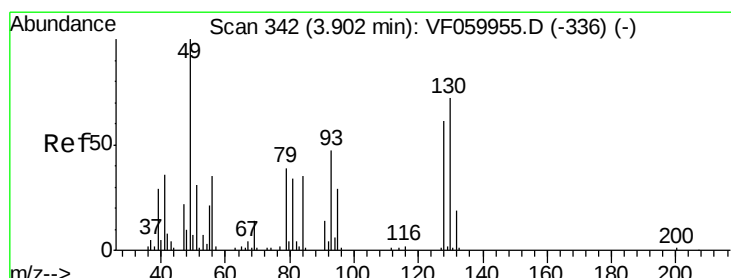
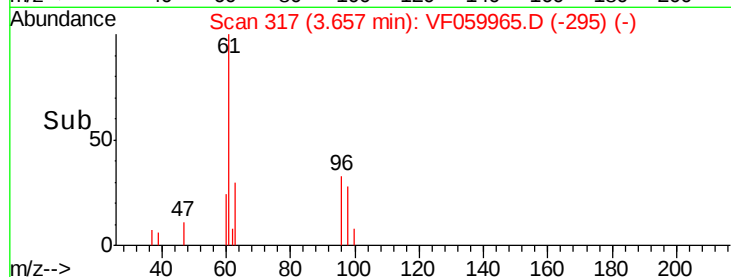
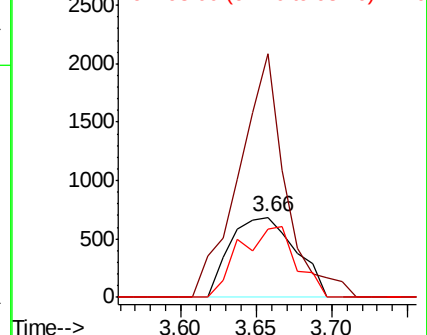
98 84.8 0.0 134.6



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane

Concen: 2.39 ug/l

RT: 3.92 min Scan# 344

Delta R.T. 0.02 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

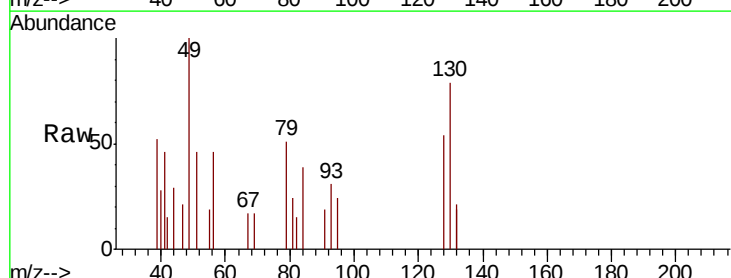
Tgt Ion: 49 Resp: 2050

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

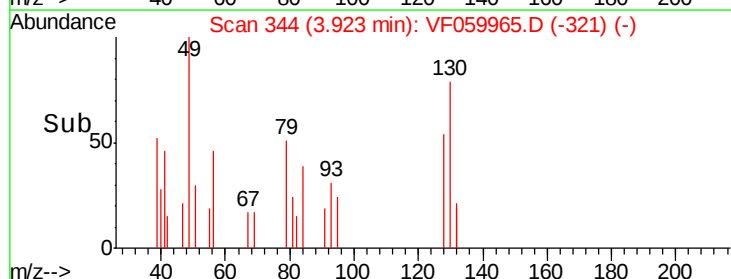
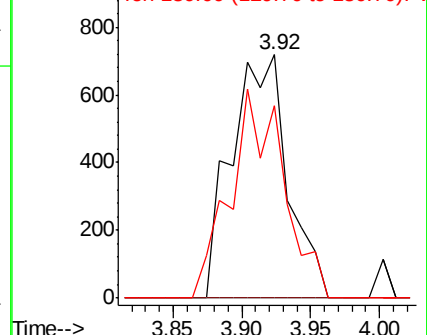
130 79.0 58.1 87.1

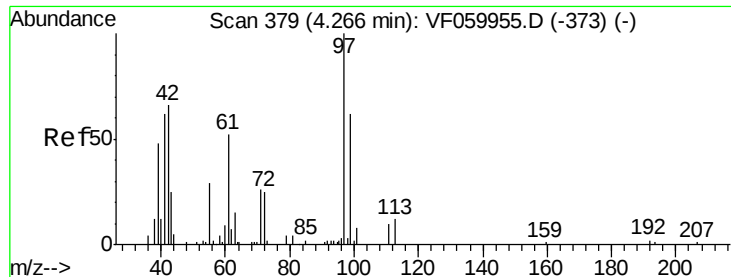


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 17.70 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

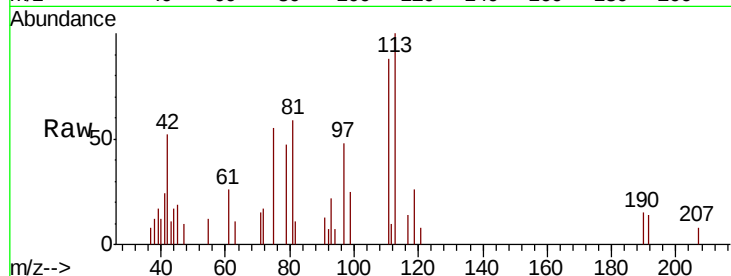
Tot Ion: 42 Resp: 2677

Ion Ratio Lower Upper

42 100

72 8.0 27.7 41.5#

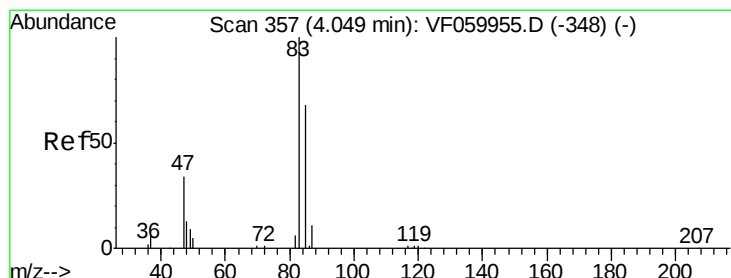
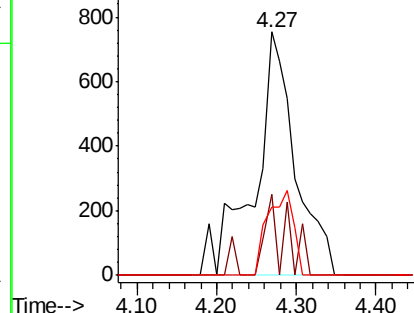
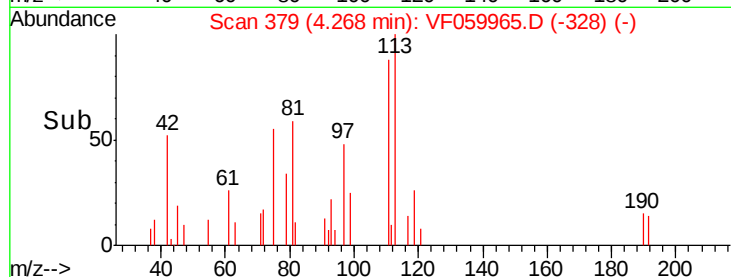
71 21.9 28.2 42.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 2.24 ug/l

RT: 4.06 min Scan# 358

Delta R.T. 0.01 min

Lab File: VF059965.D

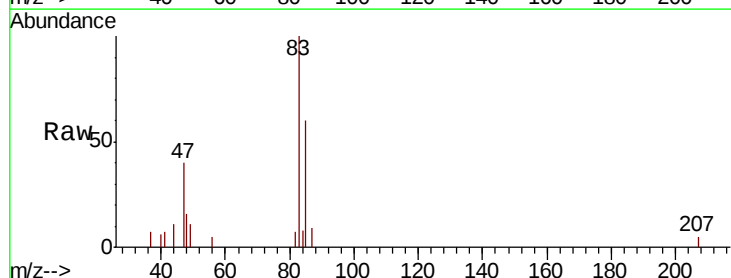
Acq: 15 Aug 2018 1:37

Tgt Ion: 83 Resp: 7085

Ion Ratio Lower Upper

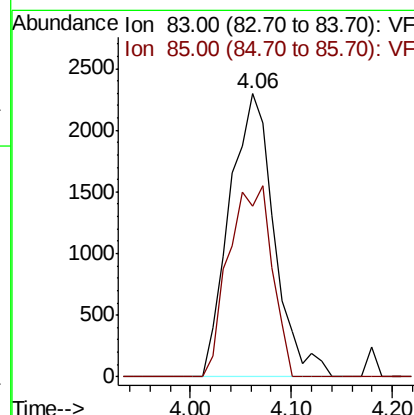
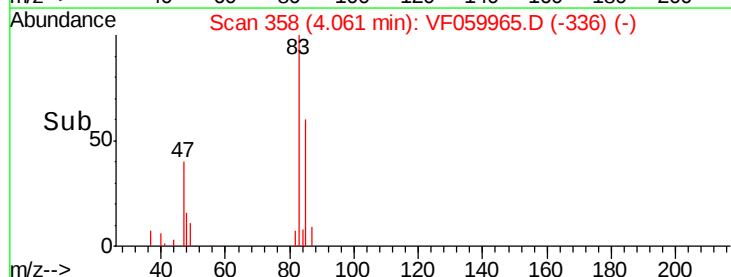
83 100

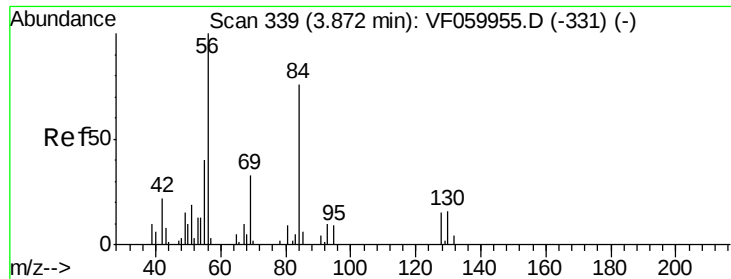
85 60.3 54.4 81.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

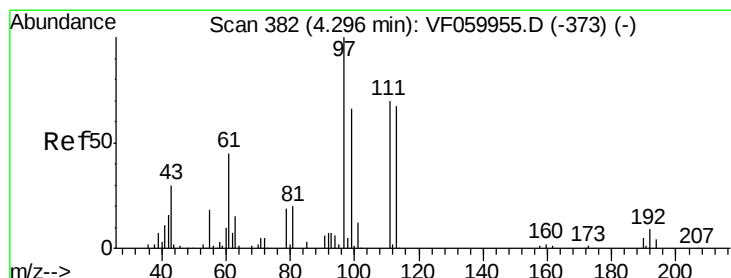
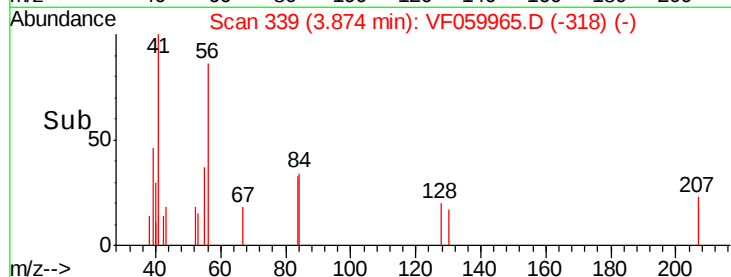
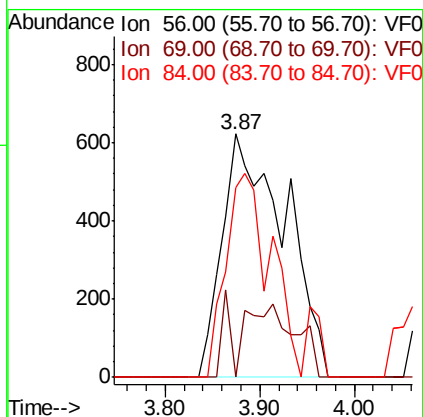
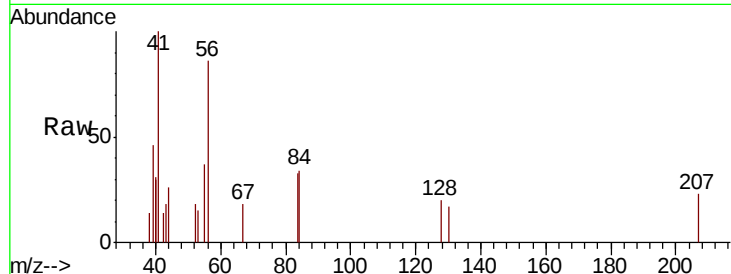




#31
Cyclohexane
Concen: 2.50 ug/l
RT: 3.87 min Scan# 339
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

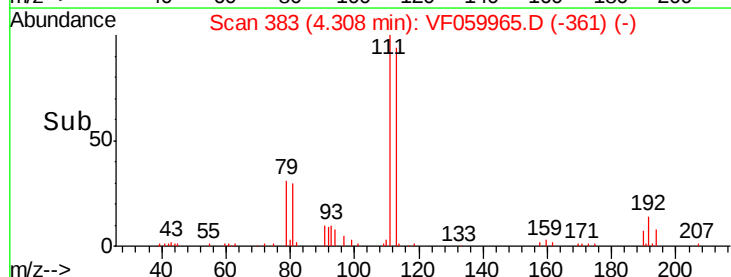
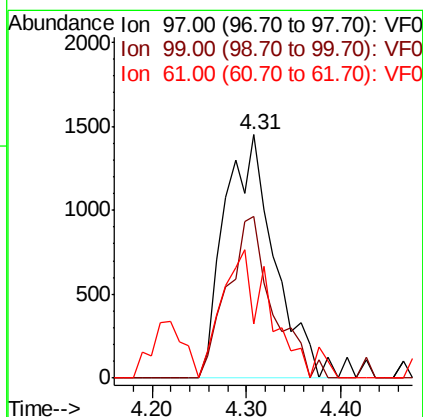
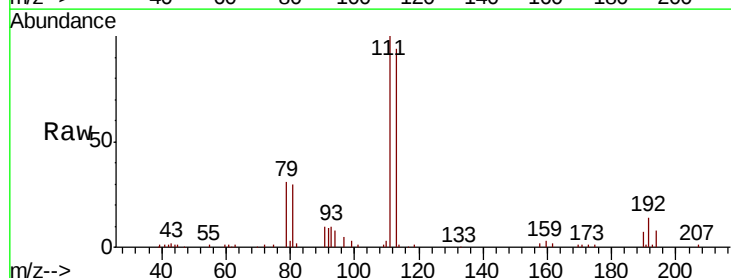
Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

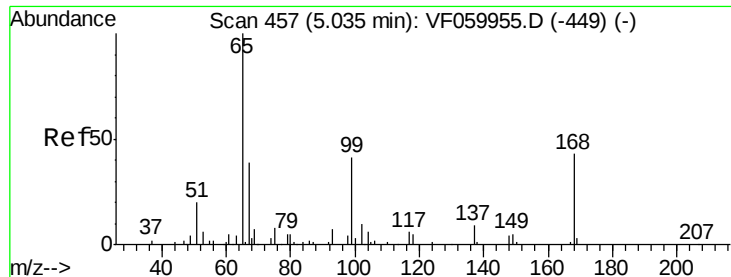
Tot Ion: 56 Resp: 2871
Ion Ratio Lower Upper
56 100
69 0.0 26.2 39.2#
84 78.2 61.0 91.4



#32
1,1,1-Trichloroethane
Concen: 2.05 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion: 97 Resp: 5331
Ion Ratio Lower Upper
97 100
99 66.2 53.0 79.4
61 22.1 36.6 55.0#

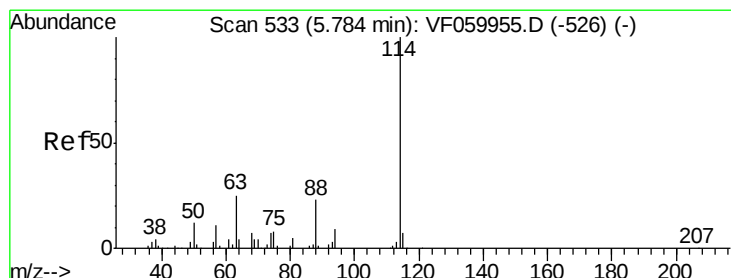
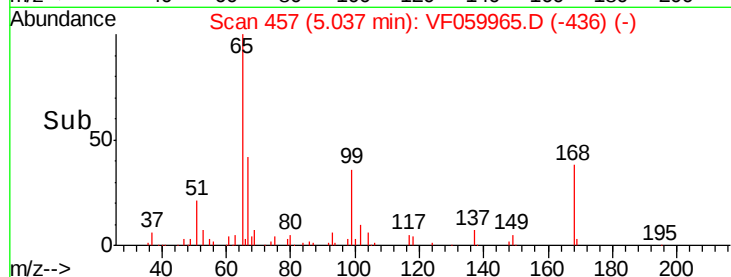
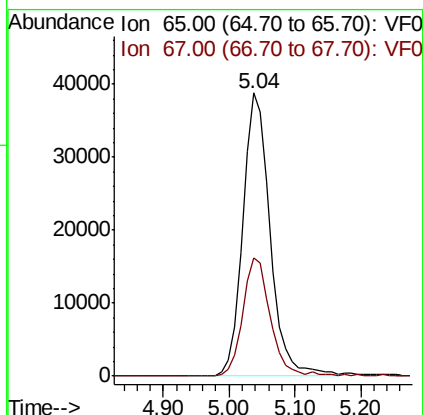
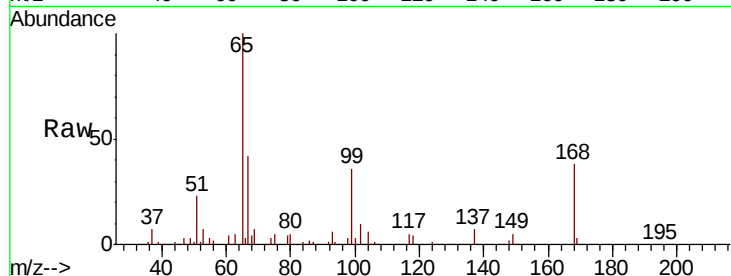




#33
 1,2-Dichloroethane-d4
 Concen: 51.43 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

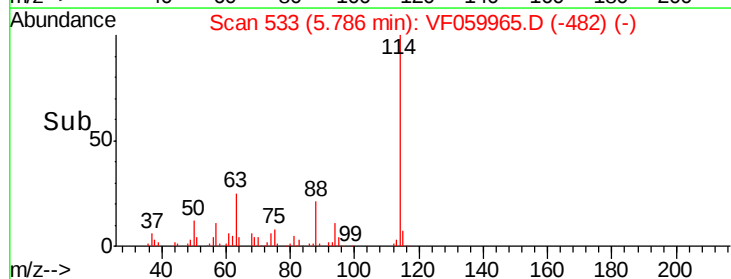
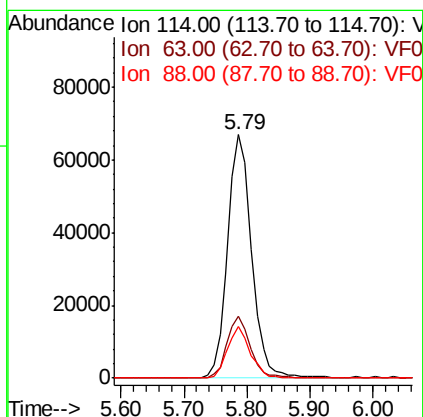
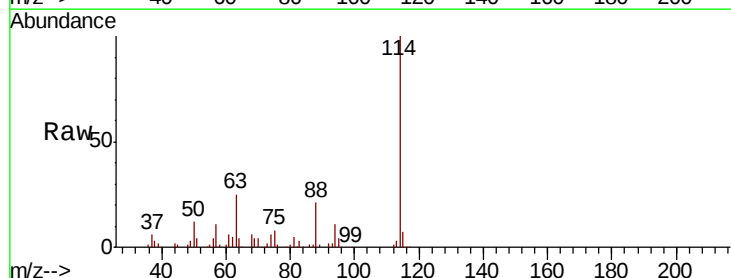
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

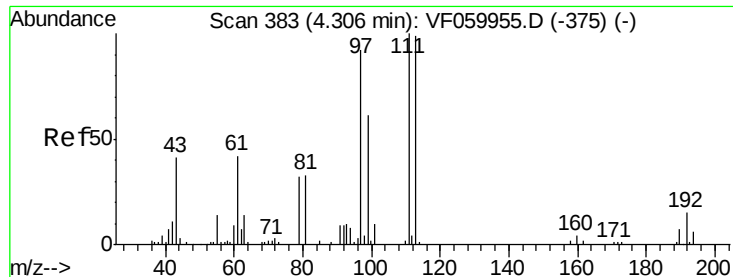
Tot Ion: 65 Resp: 112832
 Ion Ratio Lower Upper
 65 100
 67 41.6 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Tgt Ion: 114 Resp: 176214
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 50.2
 88 21.2 0.0 46.8





#35

Dibromofluoromethane

Concen: 50.43 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

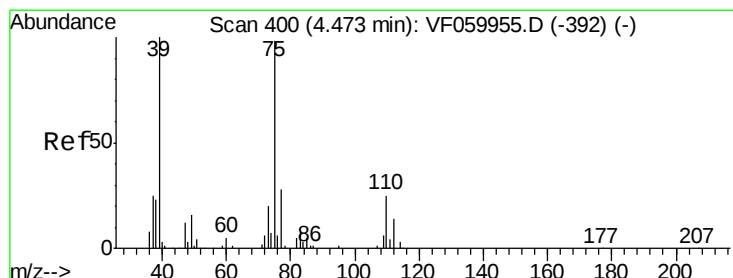
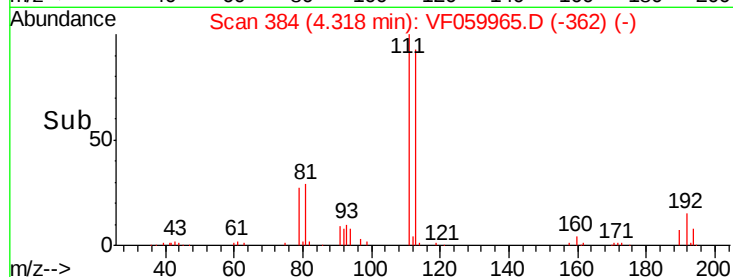
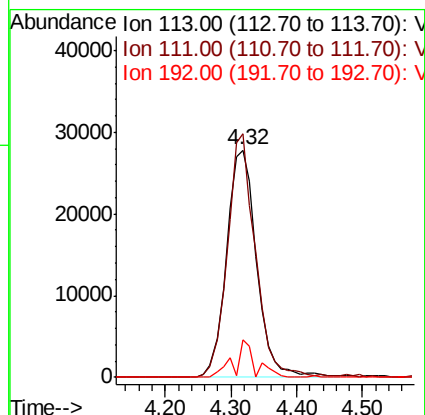
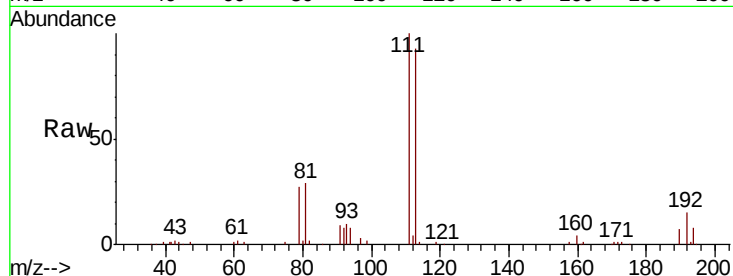
Tot Ion:113 Resp: 89053

Ion Ratio Lower Upper

113 100

111 107.2 80.6 121.0

192 16.5 11.7 17.5



#36

1,1-Dichloropropene

Concen: 2.39 ug/l

RT: 4.48 min Scan# 400

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

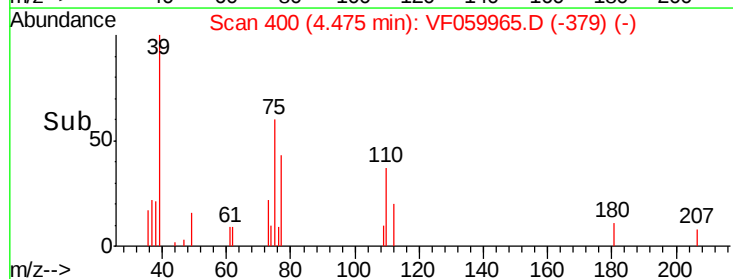
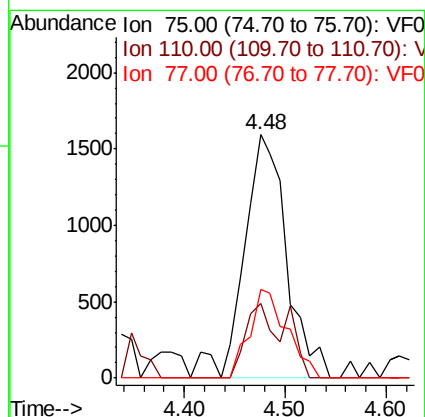
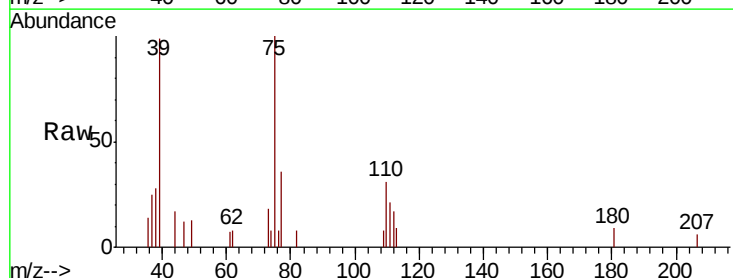
Tgt Ion: 75 Resp: 4687

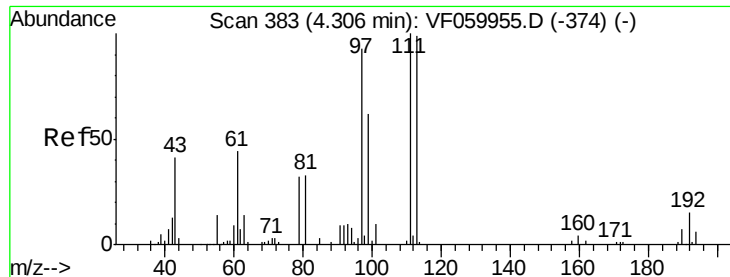
Ion Ratio Lower Upper

75 100

110 30.9 12.6 37.8

77 36.2 22.7 34.1#

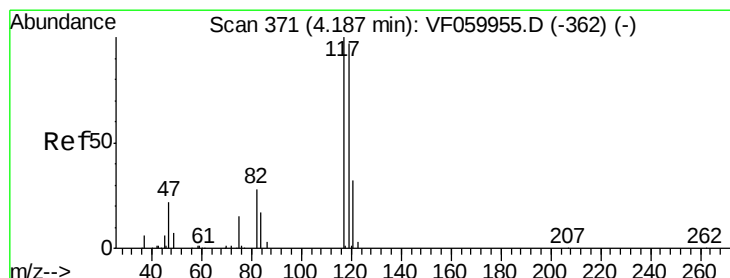
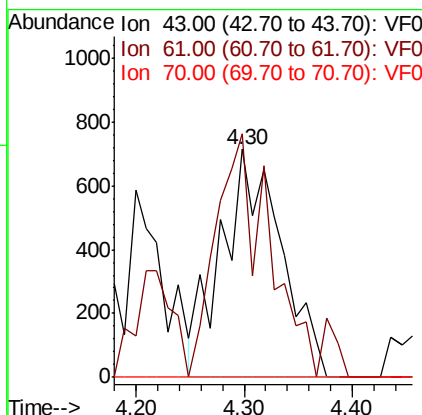
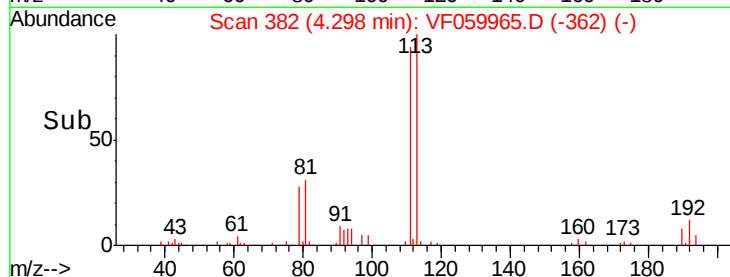
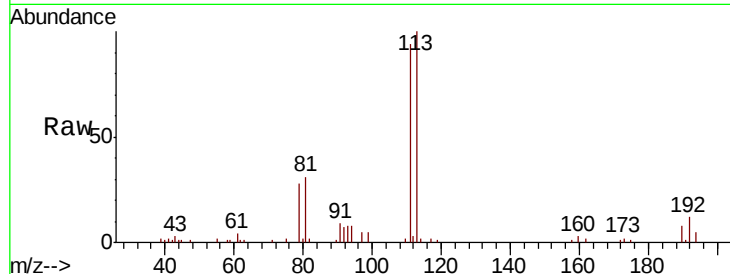




#37
Ethyl Acetate
Concen: 3.27 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

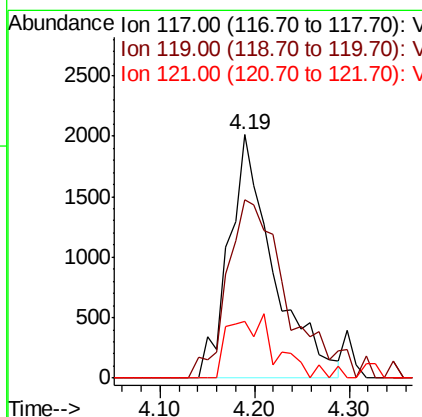
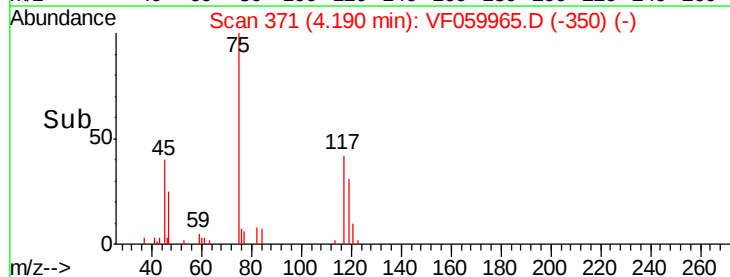
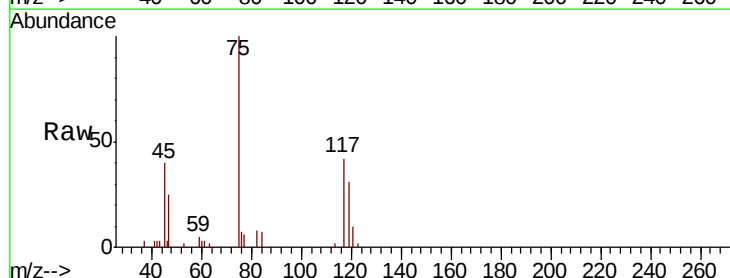
Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

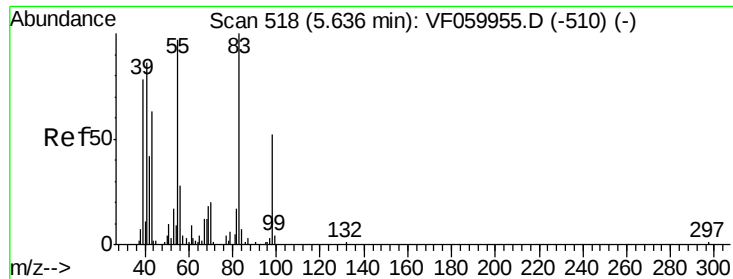
Tot Ion: 43 Resp: 2739
Ion Ratio Lower Upper
43 100
61 106.7 84.3 126.5
70 0.0 5.5 8.3#



#38
Carbon Tetrachloride
Concen: 2.03 ug/l
RT: 4.19 min Scan# 371
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion: 117 Resp: 6618
Ion Ratio Lower Upper
117 100
119 73.3 76.9 115.3#
121 23.1 24.9 37.3#

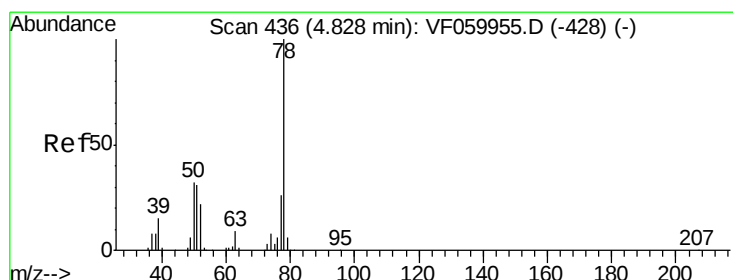
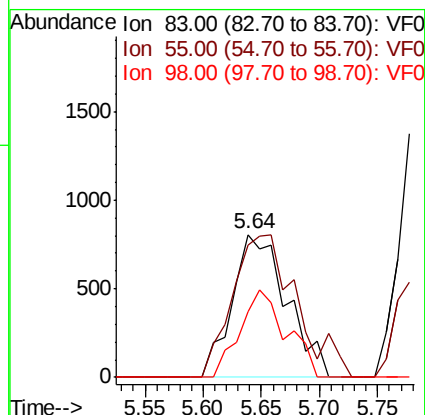
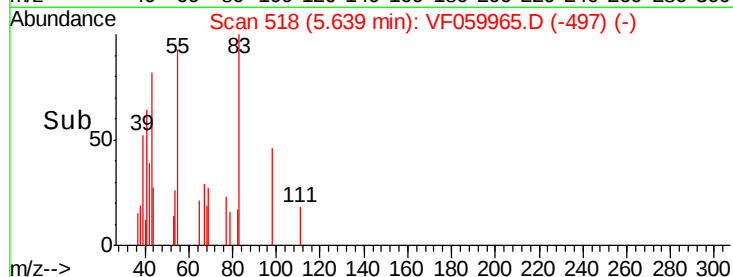
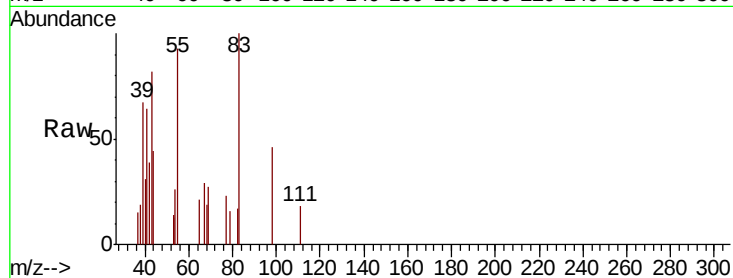




#39
Methvlcvclohexane
Concen: 1.84 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

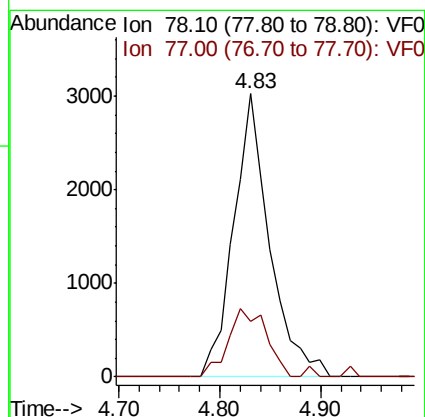
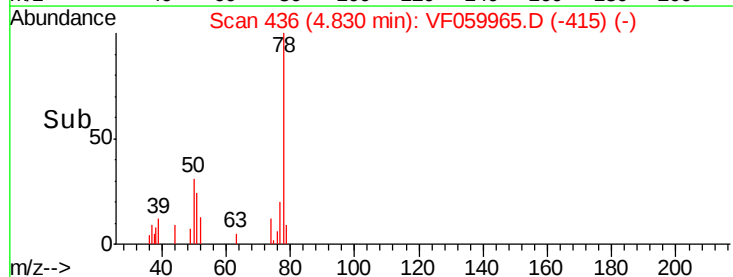
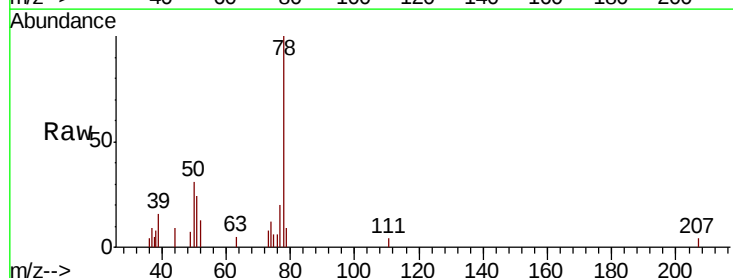
Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

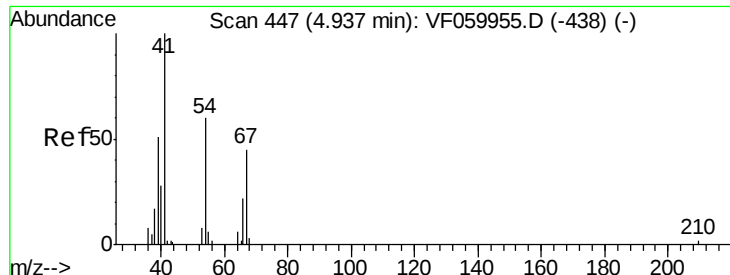
Tot Ion: 83 Resp: 2620
Ion Ratio Lower Upper
83 100
55 92.6 77.4 116.2
98 45.8 41.5 62.3



#40
Benzene
Concen: 2.26 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion: 78 Resp: 7500
Ion Ratio Lower Upper
78 100
77 19.7 21.1 31.7#

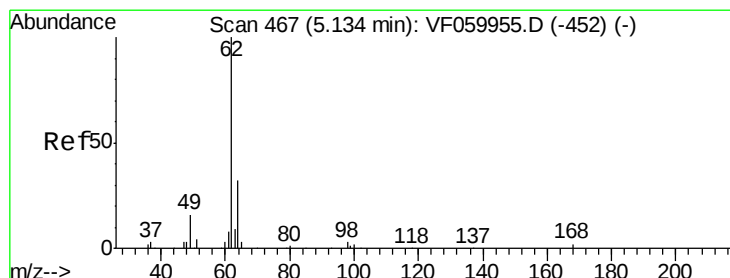
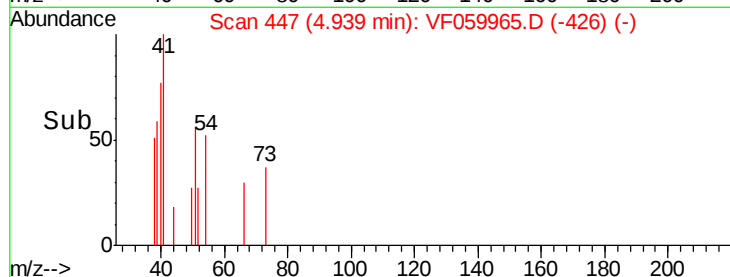
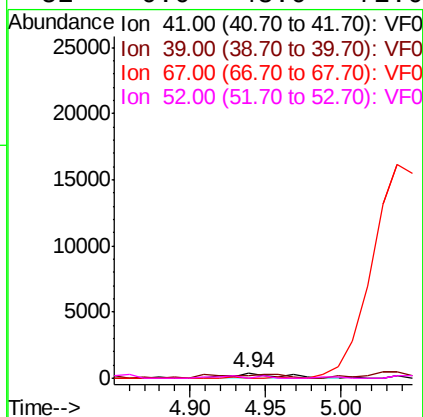
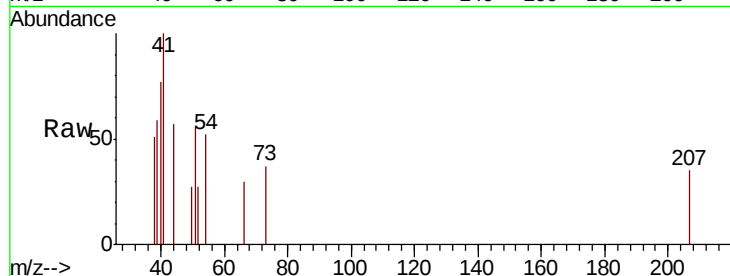




#41
Methacrylonitrile
Concen: 2.15 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

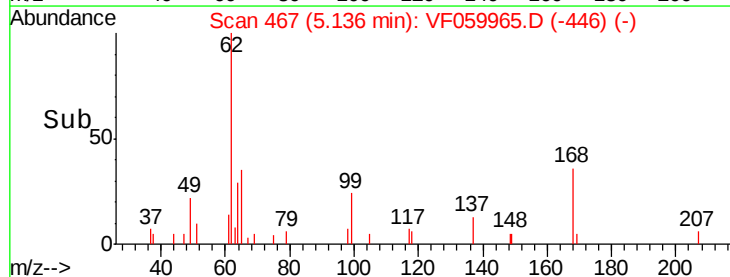
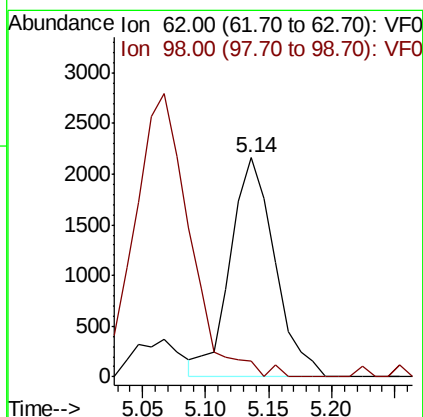
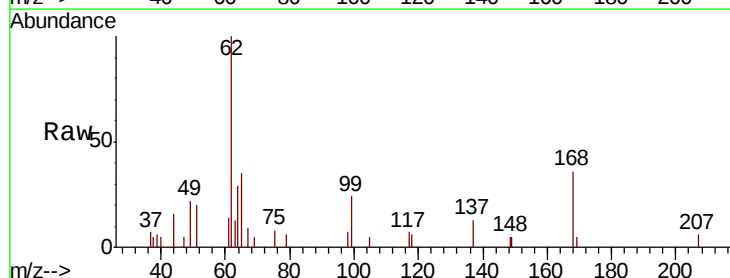
Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

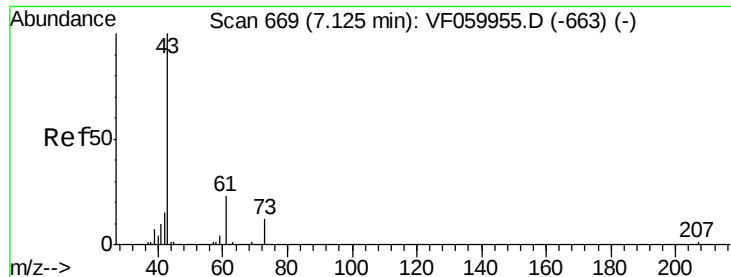
Tot Ion: 41 Resp: 889
Ion Ratio Lower Upper
41 100
39 58.9 75.7 113.5#
67 0.0 36.1 54.1#
52 0.0 48.0 72.0#



#42
1,2-Dichloroethane
Concen: 2.01 ug/l
RT: 5.14 min Scan# 467
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion: 62 Resp: 5304
Ion Ratio Lower Upper
62 100
98 7.4 0.0 5.0#



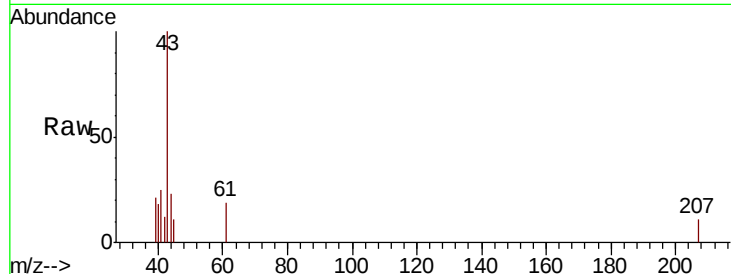


#43

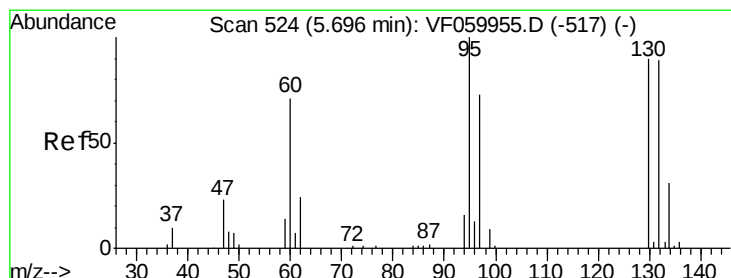
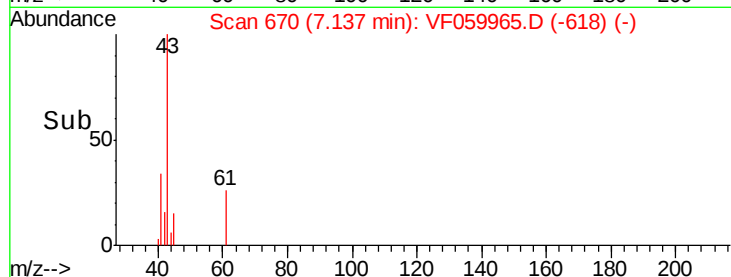
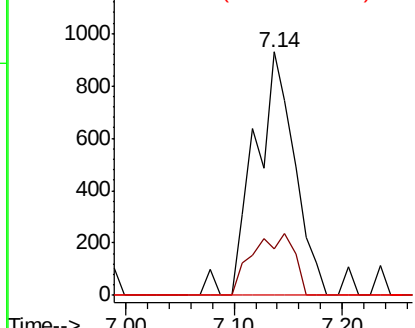
Isopropyl Acetate
 Concen: 2.62 ug/l
 RT: 7.14 min Scan# 670
 Delta R.T. 0.01 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 2395
 Ion Ratio Lower Upper
 43 100
 61 19.1 18.6 27.8
 87 0.0 0.0 0.0



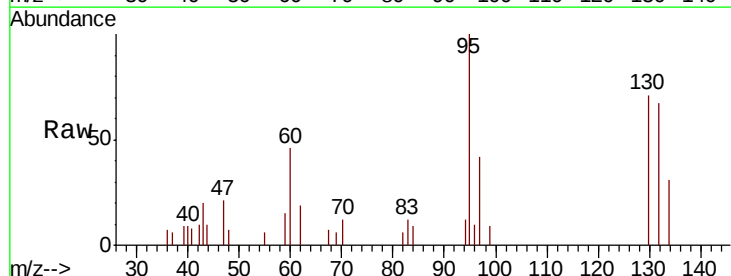
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



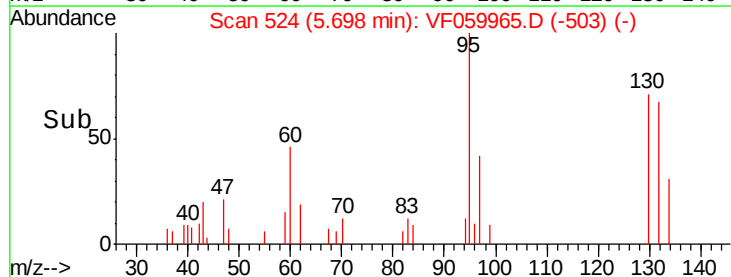
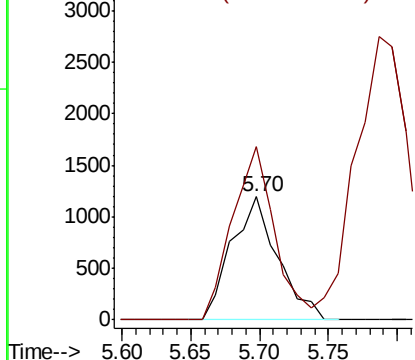
#44

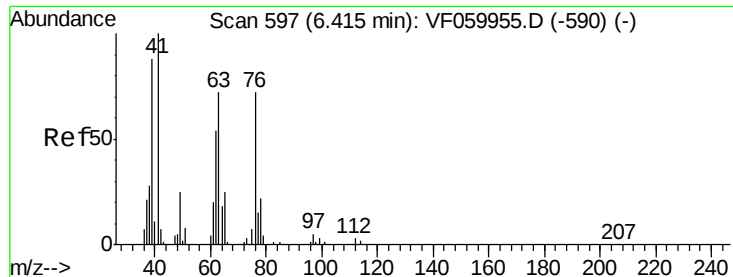
Trichloroethene
 Concen: 2.19 ug/l
 RT: 5.70 min Scan# 524
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Tgt Ion: 130 Resp: 2795
 Ion Ratio Lower Upper
 130 100
 95 140.2 0.0 222.0



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0

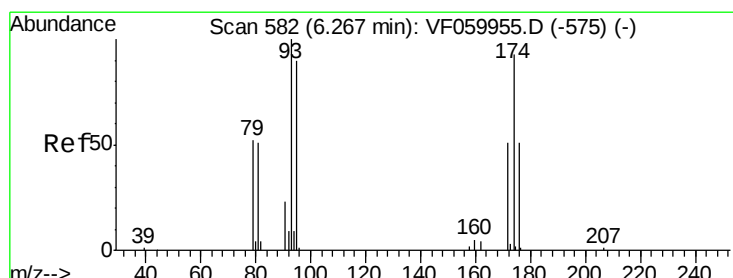
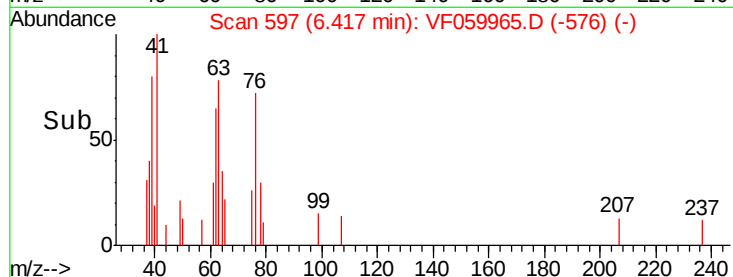
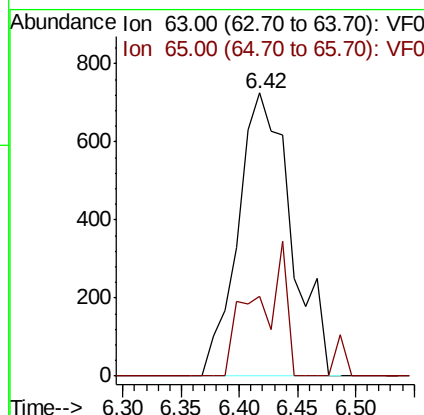
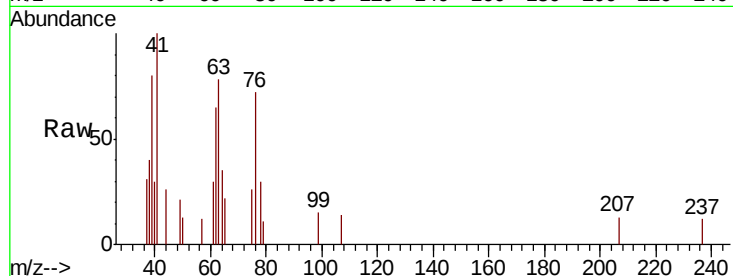




#45
 1,2-Dichloropropane
 Concen: 2.62 ug/l
 RT: 6.42 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

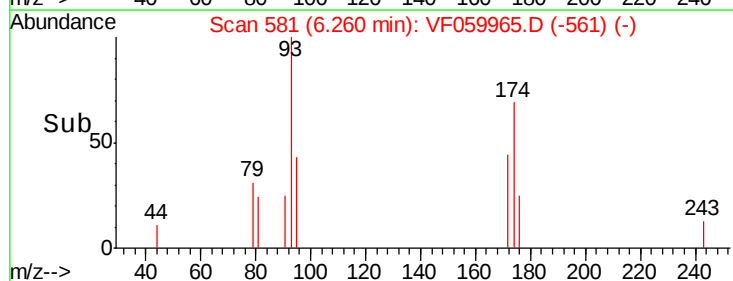
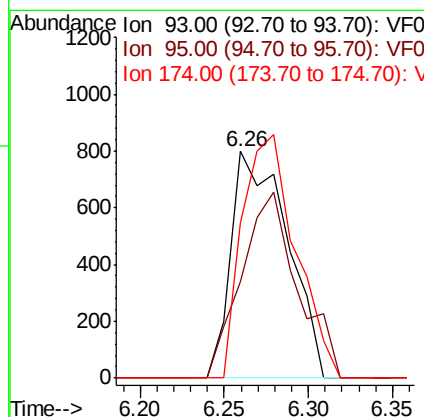
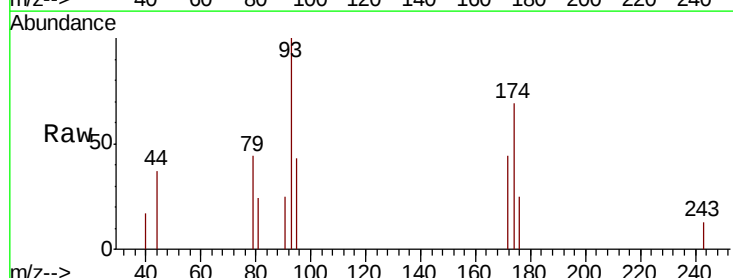
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

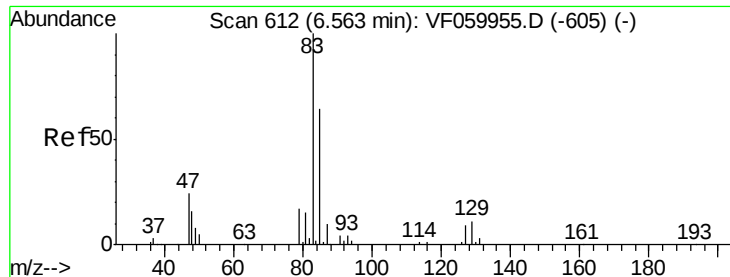
Tot Ion: 63 Resp: 2293
 Ion Ratio Lower Upper
 63 100
 65 28.3 27.8 41.6



#46
 Dibromomethane
 Concen: 2.14 ug/l
 RT: 6.26 min Scan# 581
 Delta R.T. -0.01 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Tgt Ion: 93 Resp: 1849
 Ion Ratio Lower Upper
 93 100
 95 42.6 72.4 108.6#
 174 68.7 75.9 113.9#





#47

Bromodichloromethane

Concen: 2.07 ug/l

RT: 6.57 min Scan# 612

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

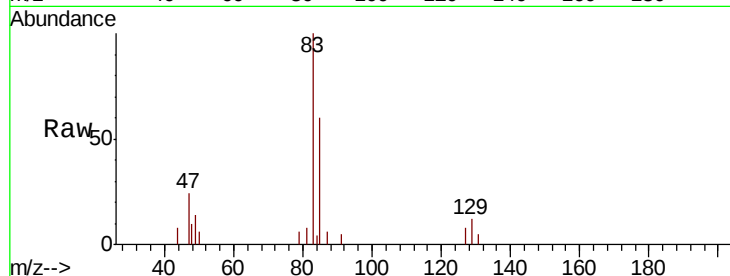
Tot Ion: 83 Resp: 5167

Ion Ratio Lower Upper

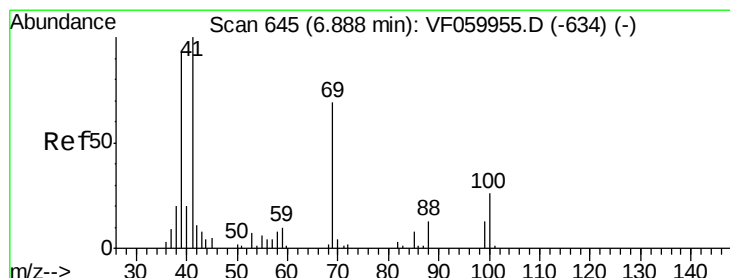
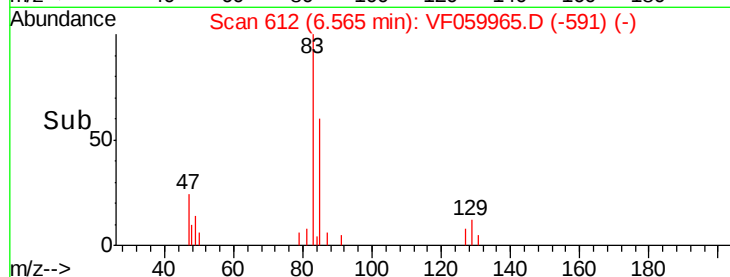
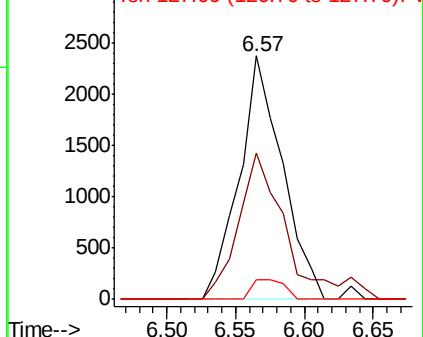
83 100

85 60.1 51.5 77.3

127 8.3 7.5 11.3



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): V



#48

Methyl methacrylate

Concen: 1.87 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

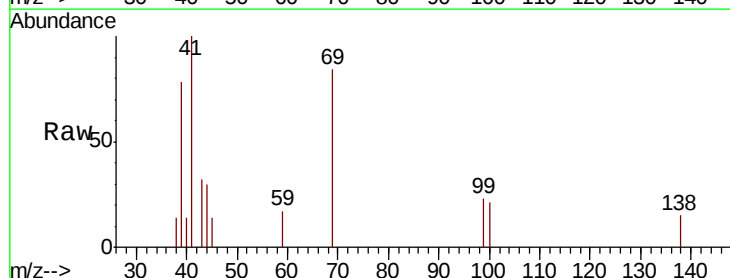
Tgt Ion: 41 Resp: 1273

Ion Ratio Lower Upper

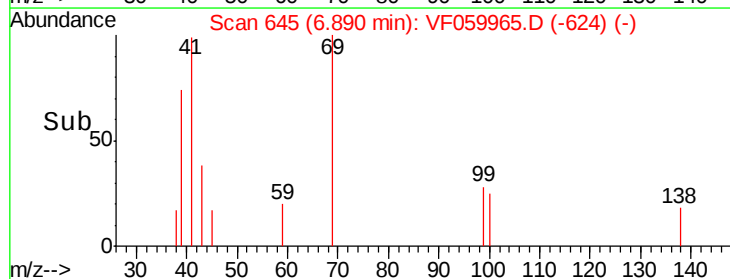
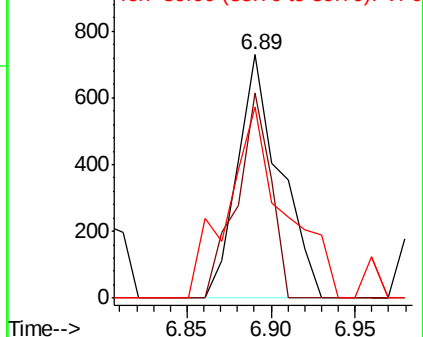
41 100

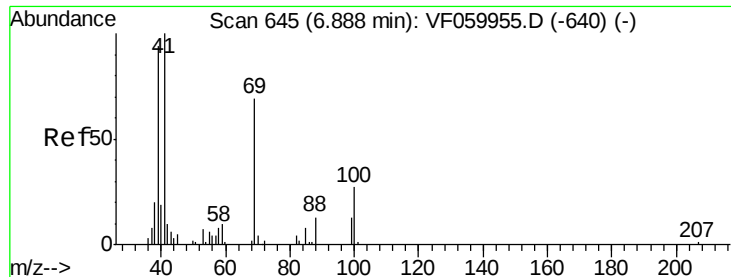
69 84.4 54.8 82.2#

39 78.3 75.1 112.7



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

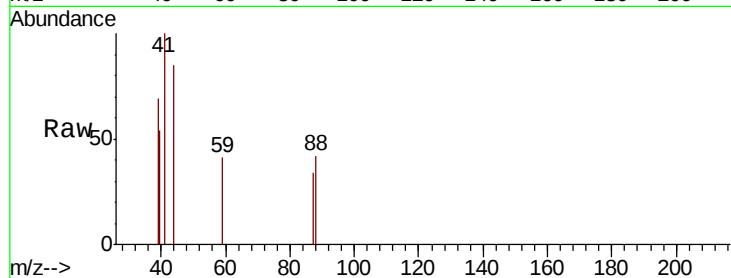




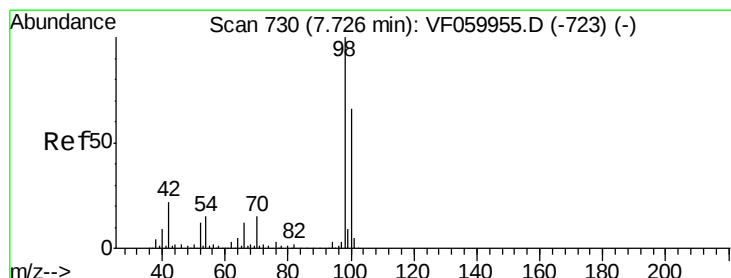
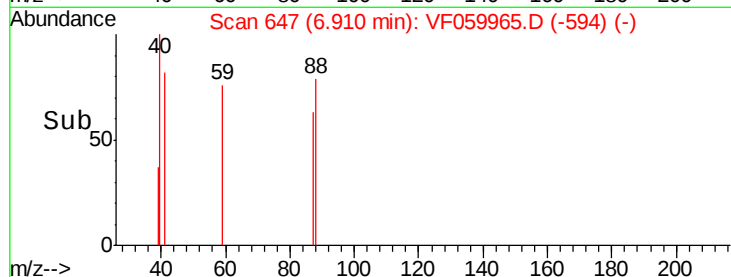
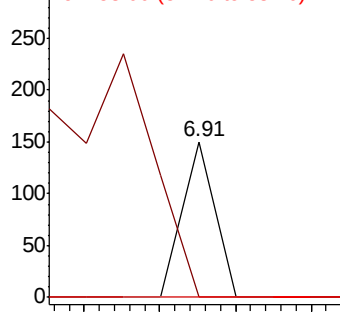
#49
1,4-Dioxane
Concen: 17.30 ug/l
RT: 6.91 min Scan# 647
Delta R.T. 0.02 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	88	Resp	89
Ion	Ratio	Lower	Upper
88	100		
43	0.0	47.9	71.9#
58	0.0	52.0	78.0#

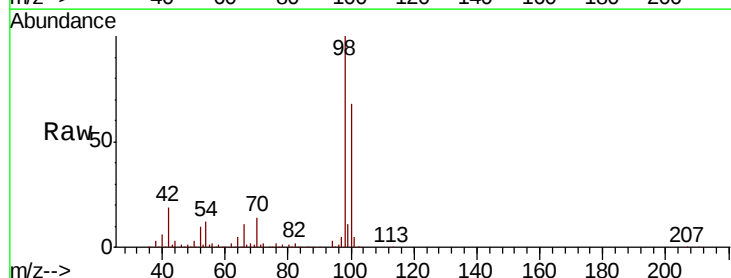


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

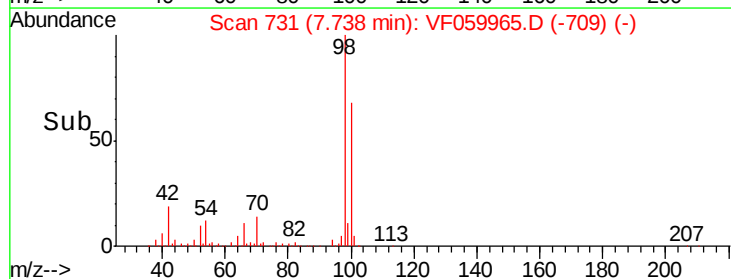
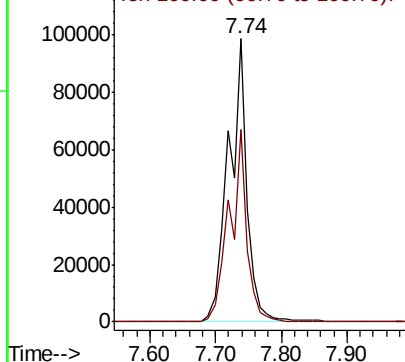


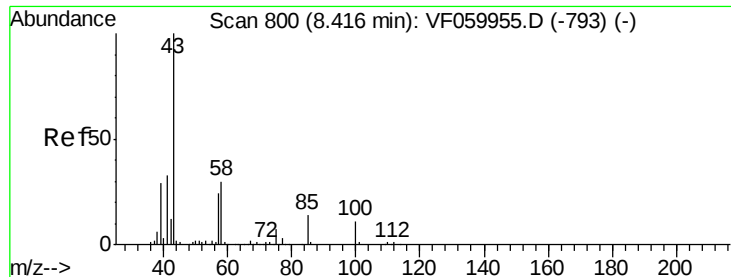
#50
Toluene-d8
Concen: 49.70 ug/l
RT: 7.74 min Scan# 731
Delta R.T. 0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	98	Resp	193538
Ion	Ratio	Lower	Upper
98	100		
100	68.2	52.9	79.3



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 11.06 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

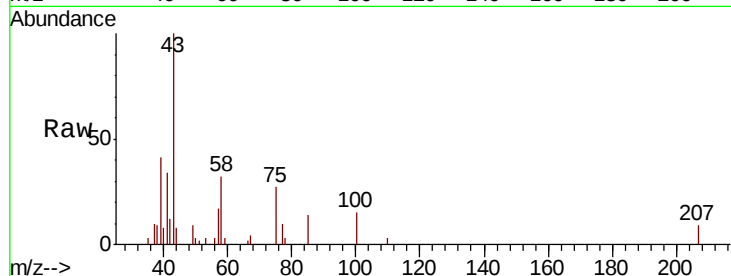
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 9781

Ion Ratio Lower Upper

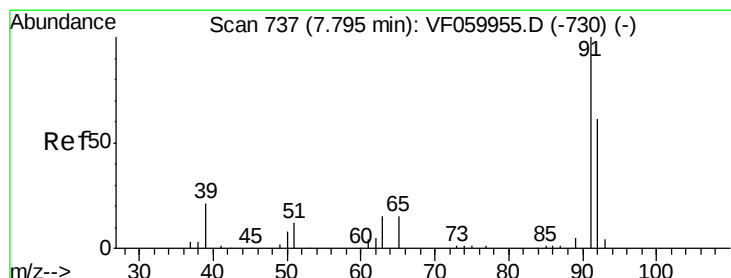
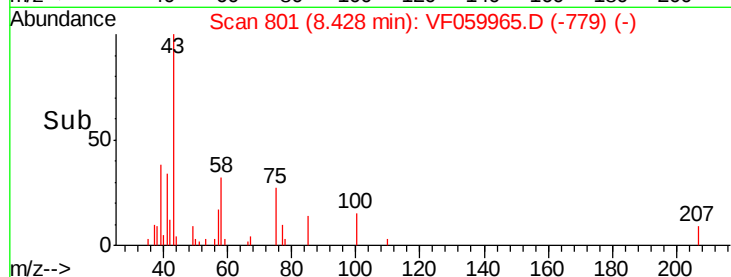
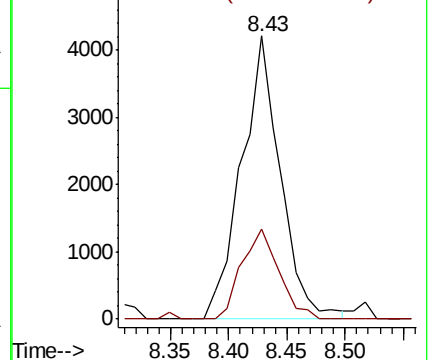
43 100

58 31.9 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 2.47 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.00 min

Lab File: VF059965.D

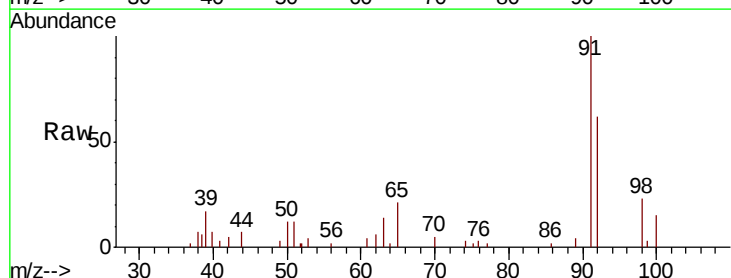
Acq: 15 Aug 2018 1:37

Tgt Ion: 92 Resp: 6056

Ion Ratio Lower Upper

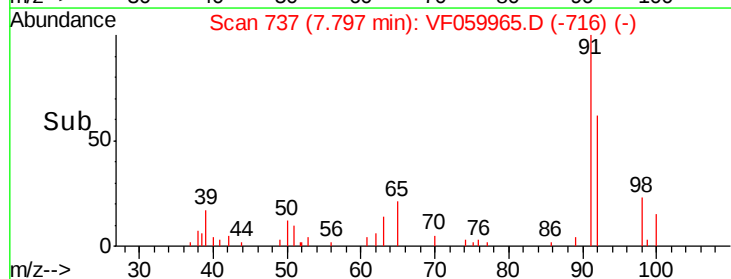
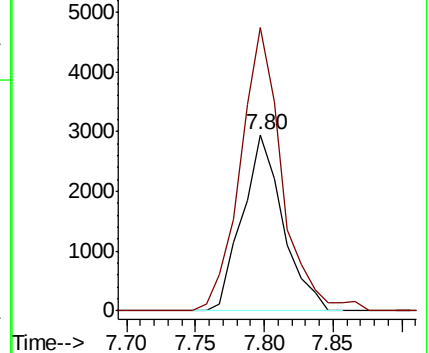
92 100

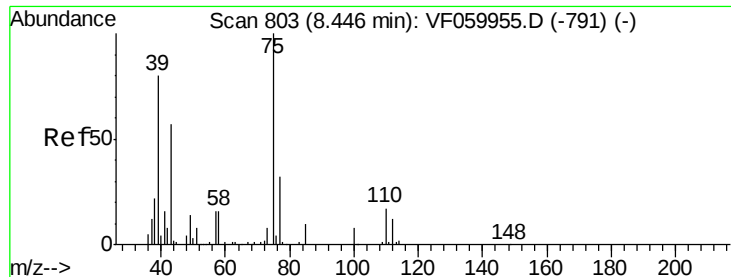
91 160.9 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 2.12 ug/l

RT: 8.45 min Scan# 803

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

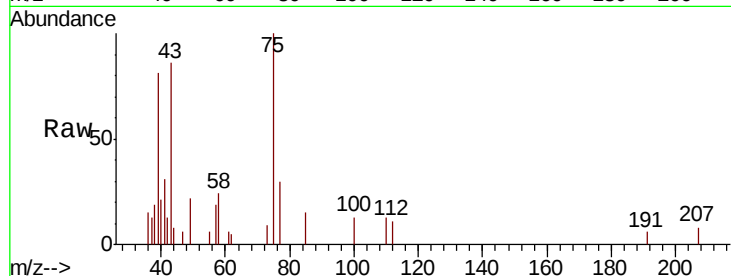
MDL-SOIL-03-QT3-2018

Tot Ion: 75 Resp: 4324

Ion Ratio Lower Upper

75 100

77 29.7 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.45

2000

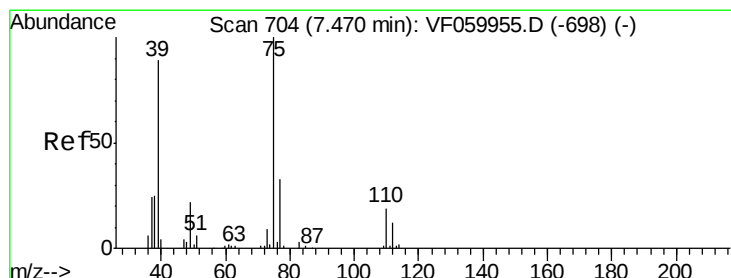
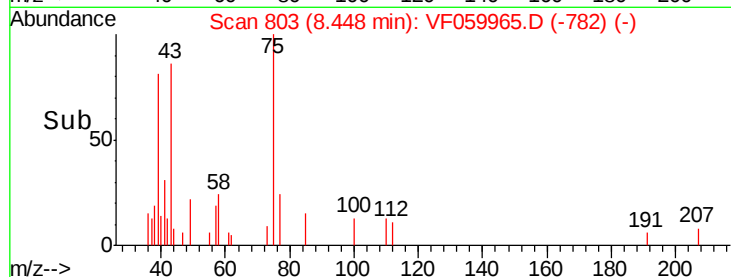
1500

1000

500

0

Time--> 8.35 8.40 8.45 8.50



#54

cis-1,3-Dichloropropene

Concen: 1.88 ug/l

RT: 7.48 min Scan# 705

Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

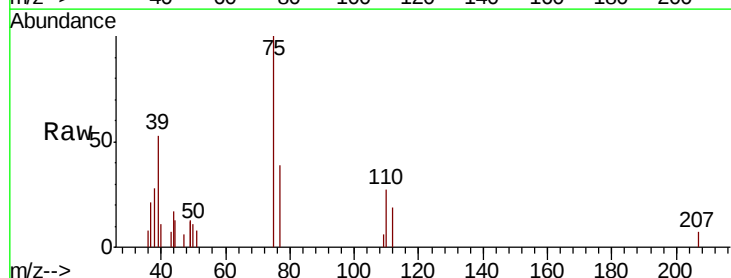
Tgt Ion: 75 Resp: 3685

Ion Ratio Lower Upper

75 100

77 38.8 26.1 39.1

39 52.8 71.6 107.4#



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

7.48

2000

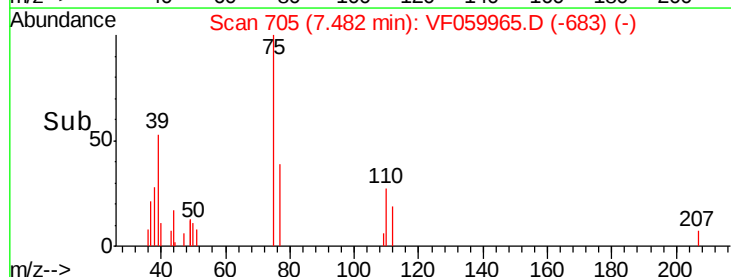
1500

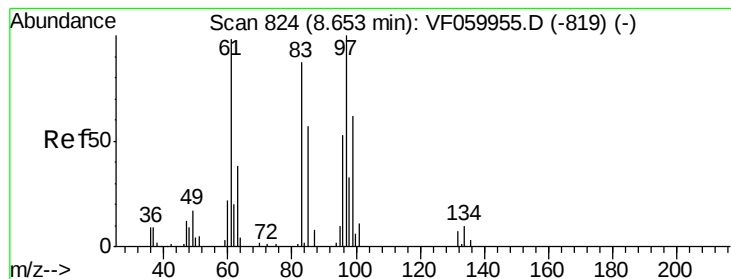
1000

500

0

Time--> 7.40 7.45 7.50 7.55





#55

1,1,2-Trichloroethane

Concen: 2.34 ug/l

RT: 8.66 min Scan# 825

Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 97 Resp: 1960

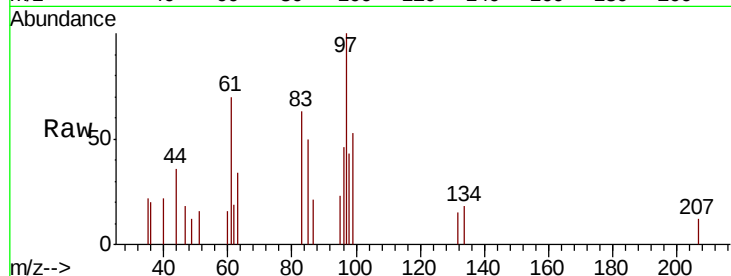
Ion Ratio Lower Upper

97 100

83 62.6 70.0 105.0#

85 49.9 45.2 67.8

99 53.4 49.7 74.5

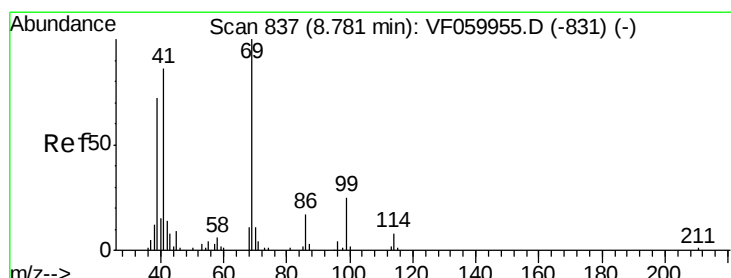
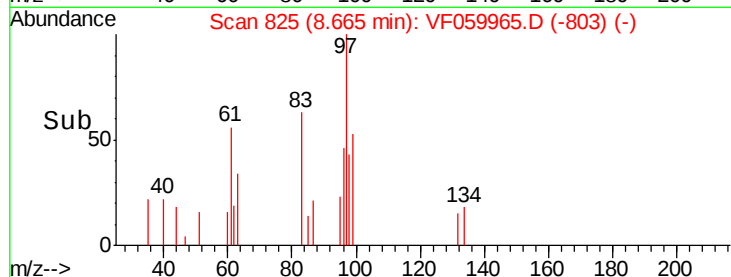
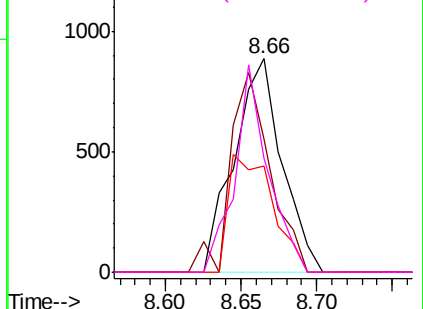


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 2.16 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

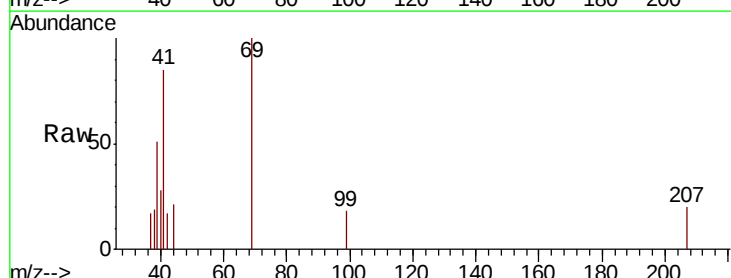
Tgt Ion: 69 Resp: 1945

Ion Ratio Lower Upper

69 100

41 84.6 68.7 103.1

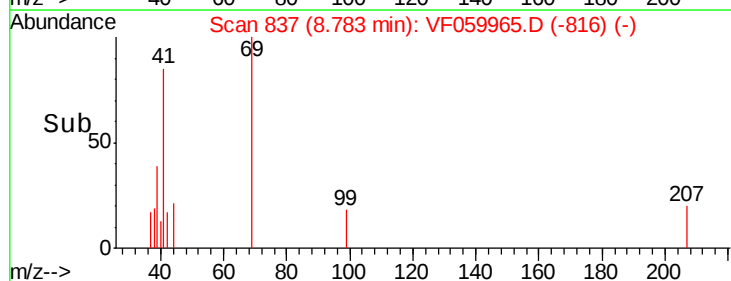
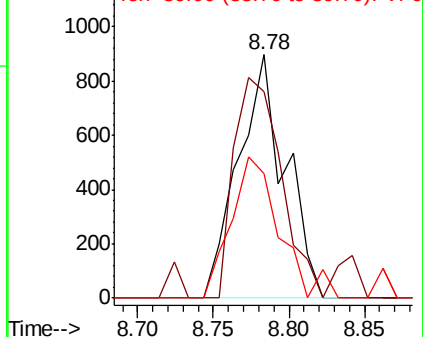
39 51.2 58.5 87.7#

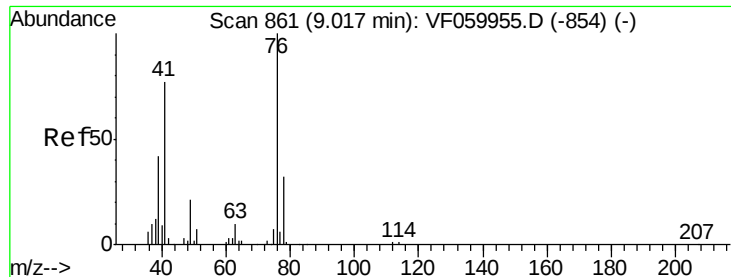


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 2.14 ug/l

RT: 9.02 min Scan# 861

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

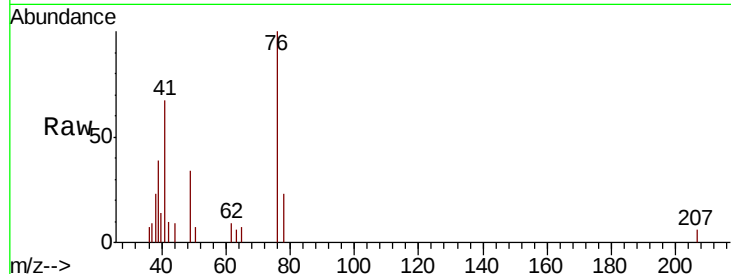
MDL-SOIL-03-QT3-2018

Tot Ion: 76 Resp: 3307

Ion Ratio Lower Upper

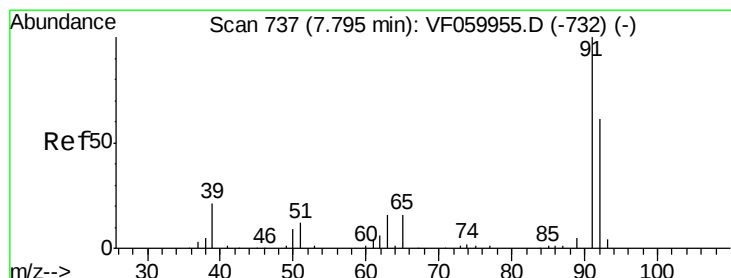
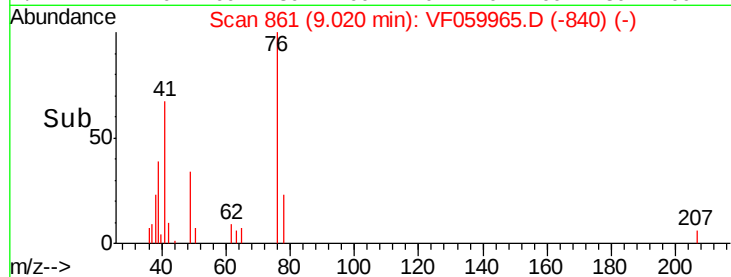
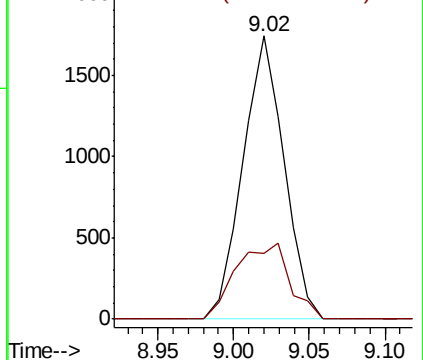
76 100

78 23.1 25.5 38.3#



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: 10.68 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.00 min

Lab File: VF059965.D

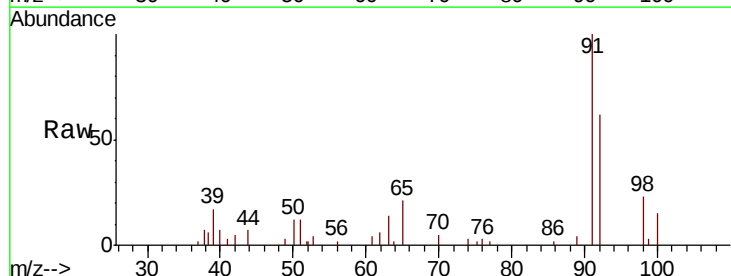
Acq: 15 Aug 2018 1:37

Tgt Ion: 63 Resp: 1295

Ion Ratio Lower Upper

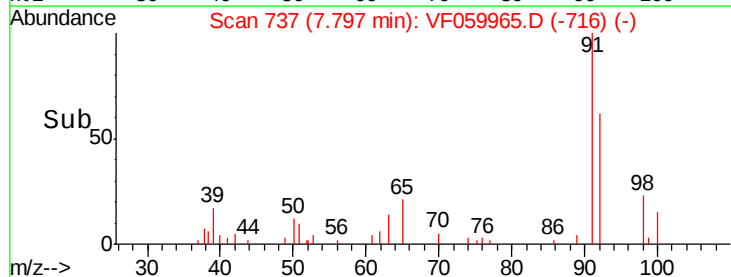
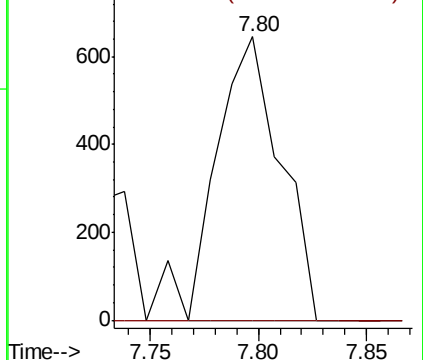
63 100

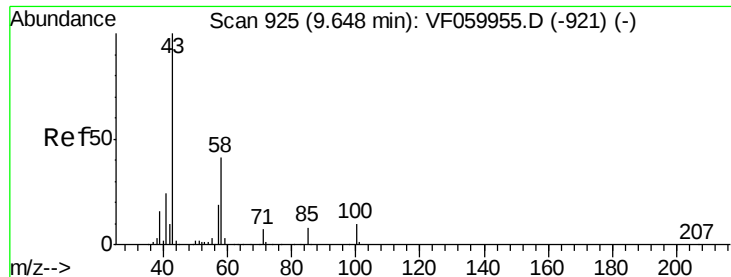
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

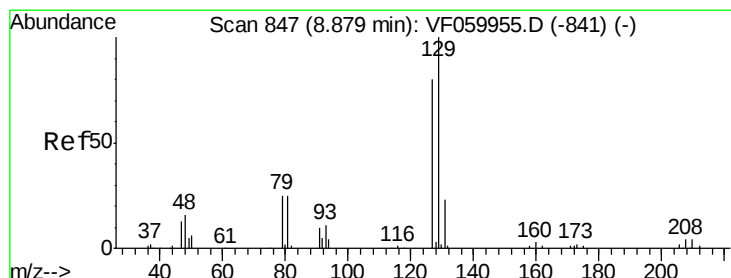
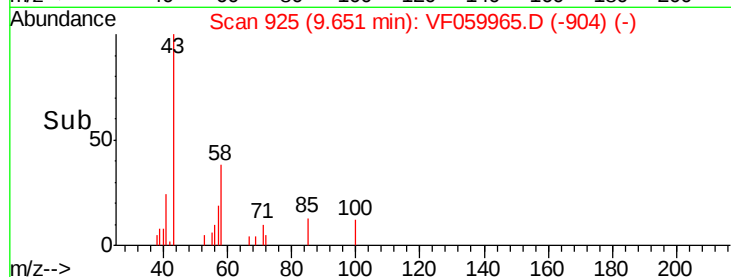
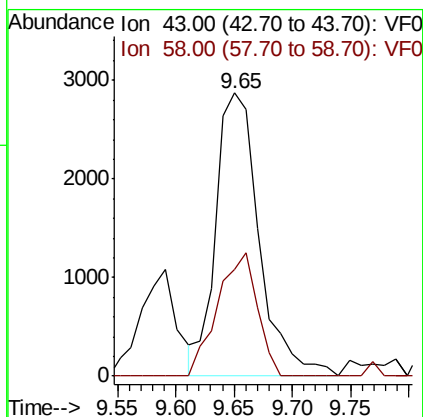
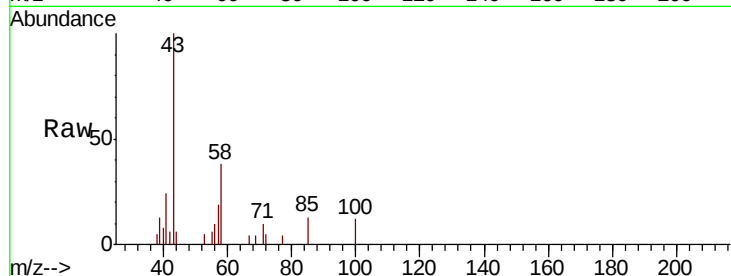




#59
2-Hexanone
Concen: 11.50 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

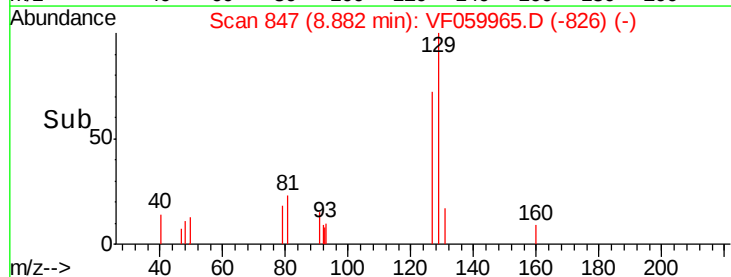
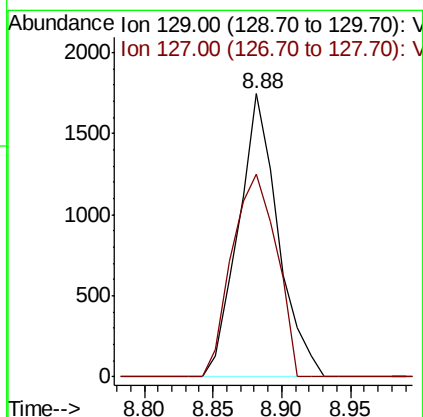
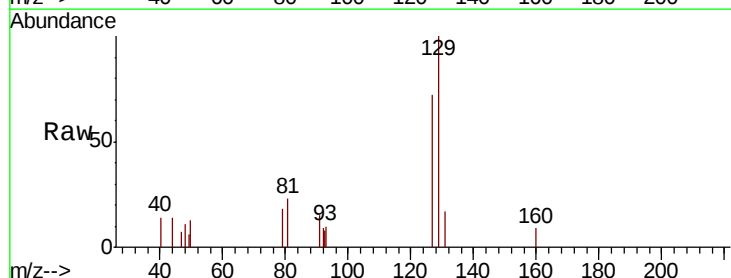
Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

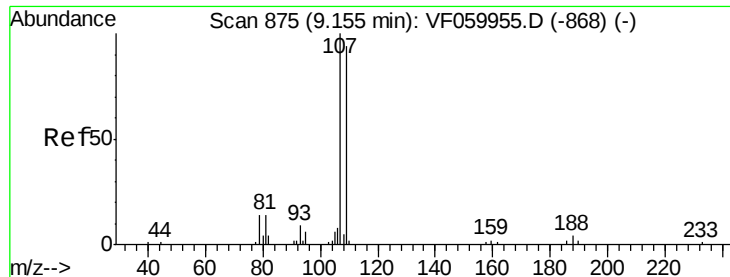
Tot Ion: 43 Resp: 7419
Ion Ratio Lower Upper
43 100
58 37.8 19.4 58.2



#60
Dibromochloromethane
Concen: 2.11 ug/l
RT: 8.88 min Scan# 847
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion: 129 Resp: 3510
Ion Ratio Lower Upper
129 100
127 71.6 40.0 119.9





#61

1,2-Dibromoethane

Concen: 2.53 ug/l

RT: 9.15 min Scan# 874

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

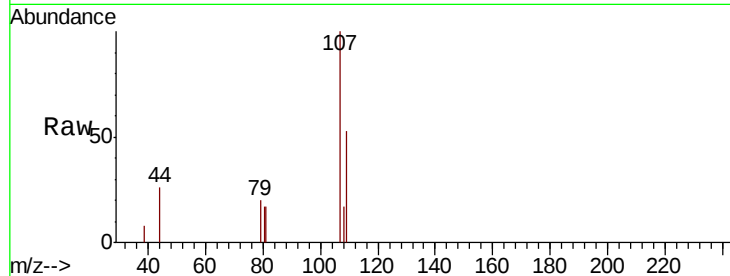
MDL-SOIL-03-QT3-2018

Tot Ion:107 Resp: 2649

Ion Ratio Lower Upper

107 100

109 53.4 75.0 112.6#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.15

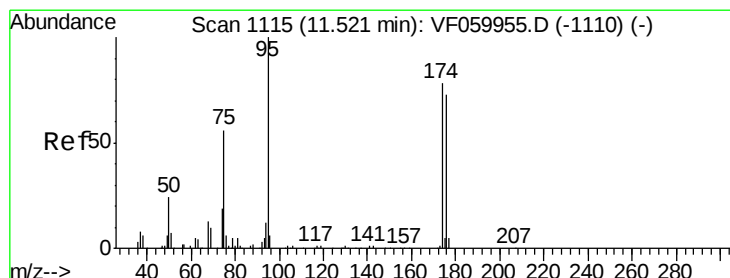
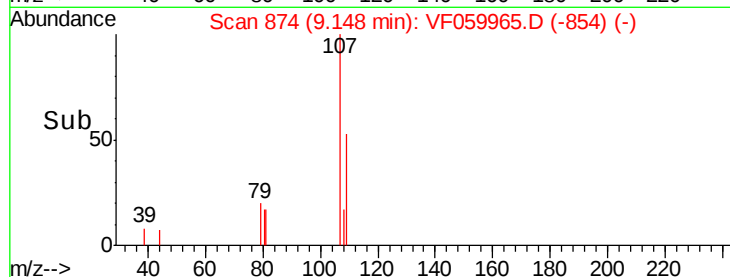
1000

500

0

9.10 9.15 9.20 9.25

Time-->



#62

4-Bromofluorobenzene

Concen: 50.46 ug/l

RT: 11.52 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

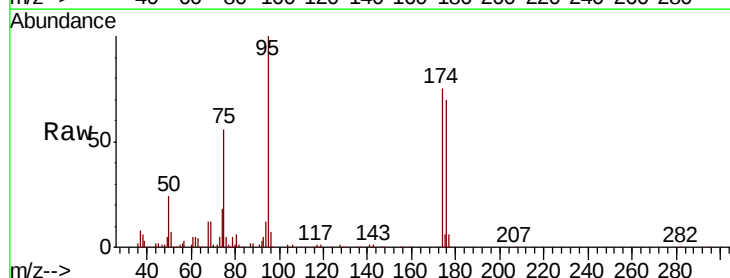
Tgt Ion: 95 Resp: 107931

Ion Ratio Lower Upper

95 100

174 75.2 0.0 156.4

176 70.4 0.0 146.8



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

11.52

80000

60000

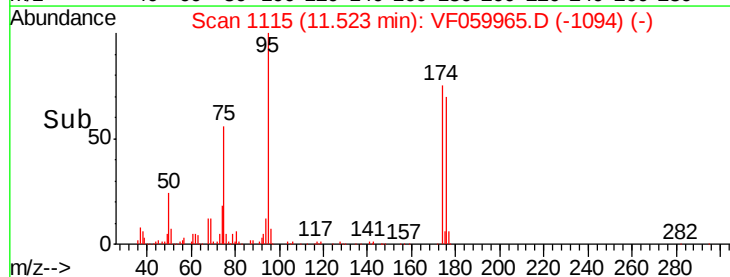
40000

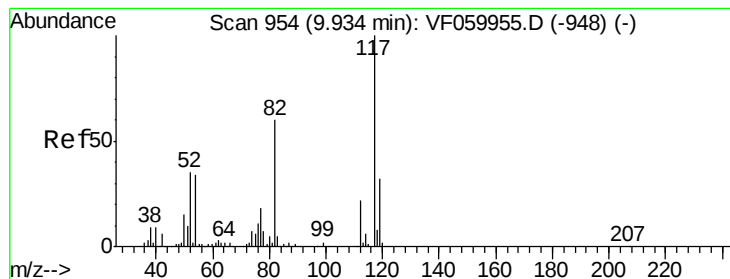
20000

0

11.40 11.50 11.60 11.70

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

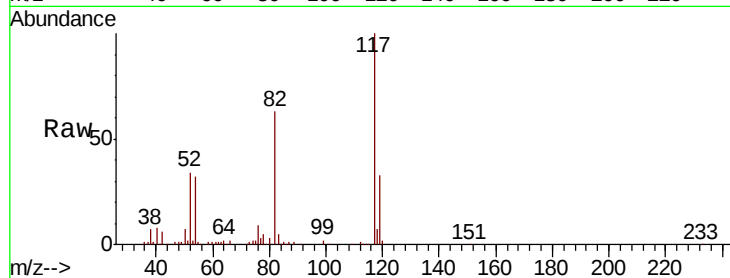
Tot Ion:117 Resp: 182355

Ion Ratio Lower Upper

117 100

82 63.2 48.3 72.5

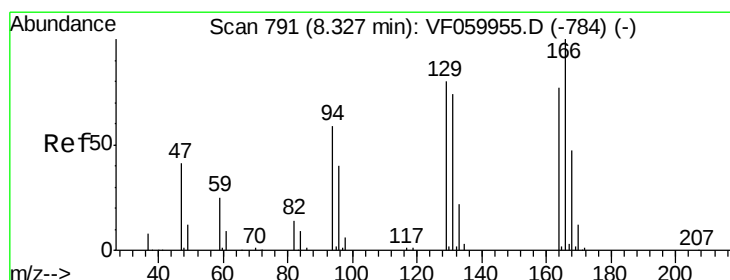
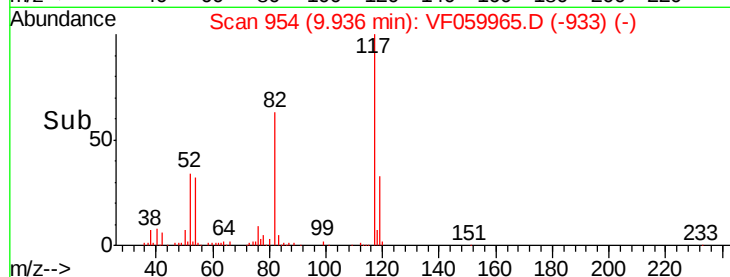
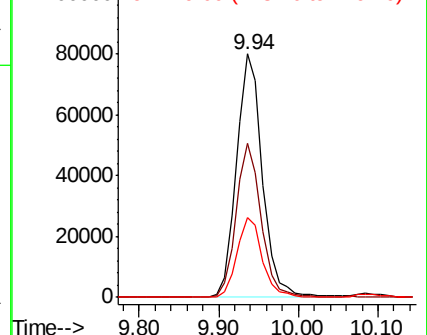
119 32.8 25.7 38.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 2.16 ug/l

RT: 8.32 min Scan# 790

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion:164 Resp: 3065

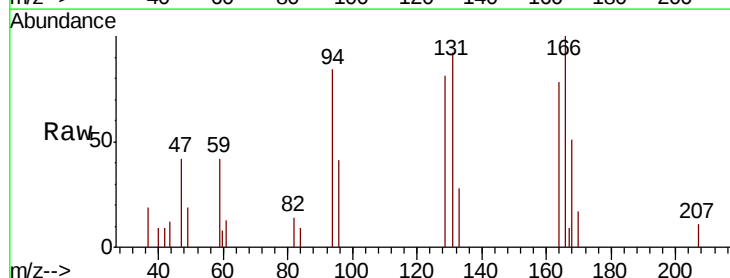
Ion Ratio Lower Upper

164 100

166 128.9 103.4 155.2

129 104.4 82.2 123.4

131 118.1 76.7 115.1#

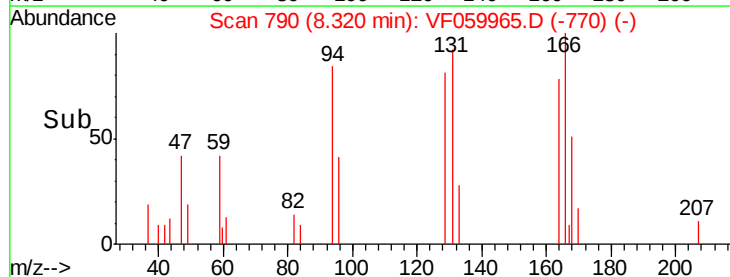
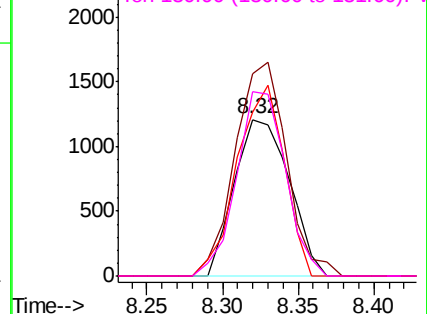


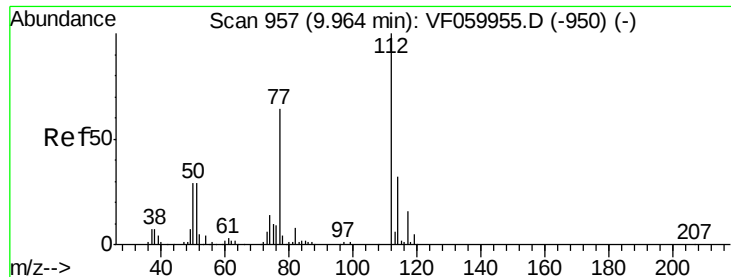
Abundance Ion 163.85 (163.55 to 164.55): V

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: 2.25 ug/l

RT: 9.97 min Scan# 957

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

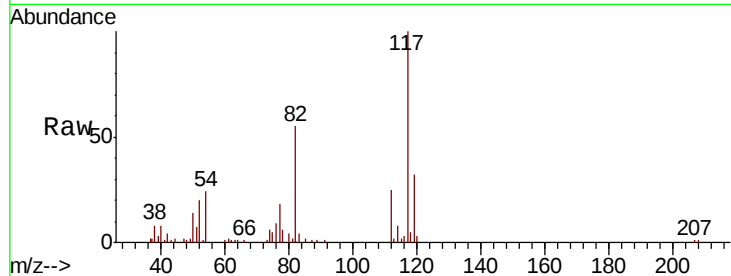
MDL-SOIL-03-QT3-2018

Tot Ion:112 Resp: 7929

Ion Ratio Lower Upper

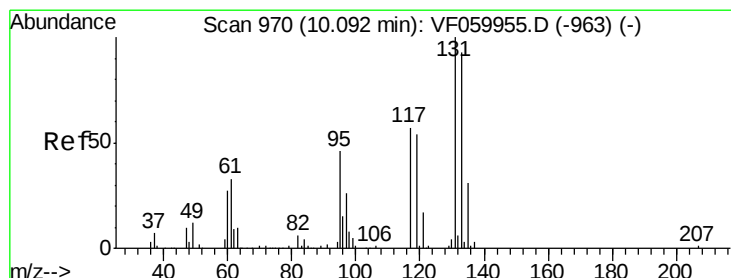
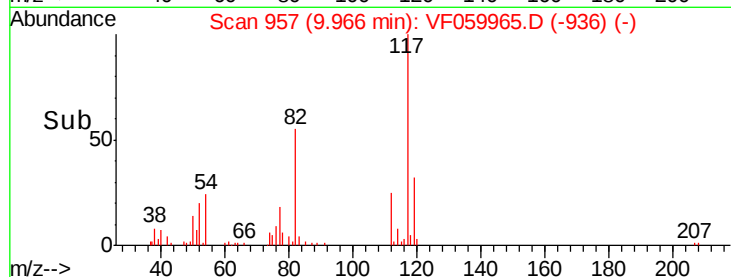
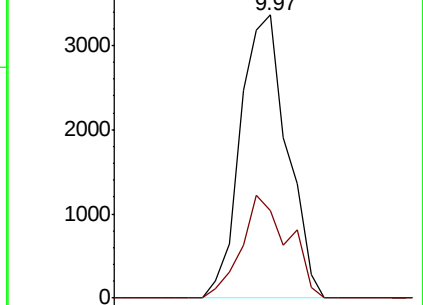
112 100

114 30.9 25.8 38.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 1.84 ug/l

RT: 10.08 min Scan# 969

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

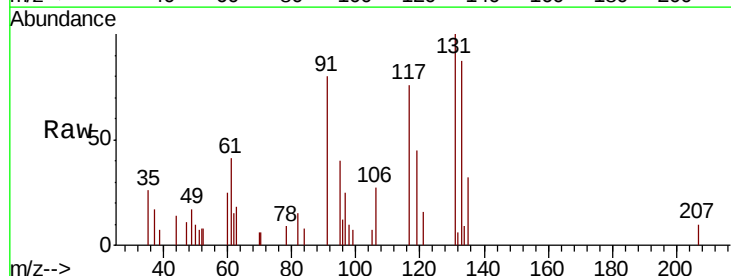
Tgt Ion:131 Resp: 3136

Ion Ratio Lower Upper

131 100

133 87.1 46.4 139.1

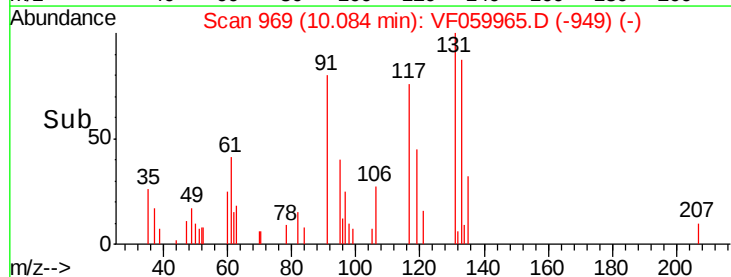
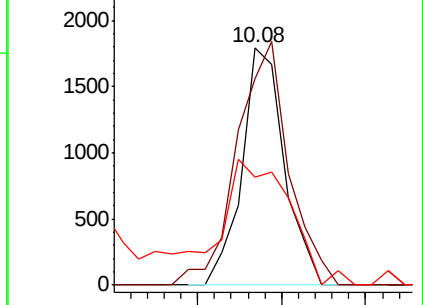
119 45.5 27.2 81.5

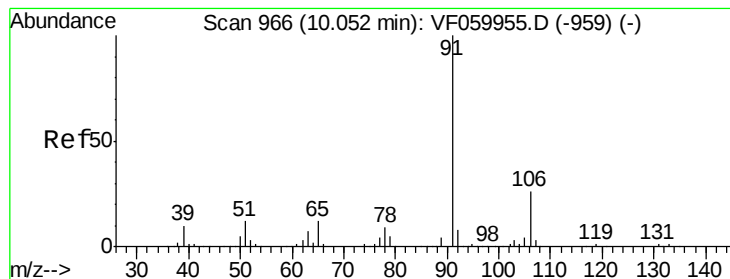


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 1.99 ug/l

RT: 10.05 min Scan# 966

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

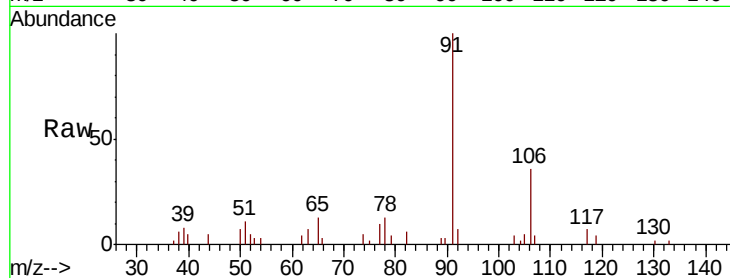
MDL-SOIL-03-QT3-2018

Tot Ion: 91 Resp: 12406

Ion Ratio Lower Upper

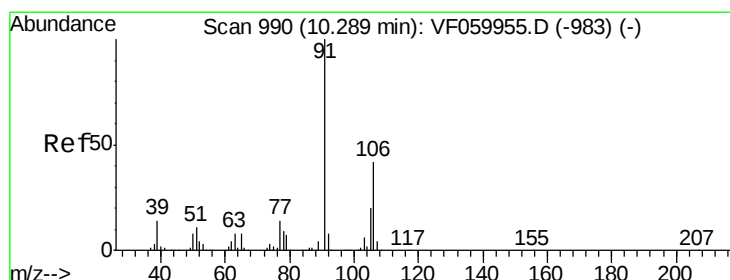
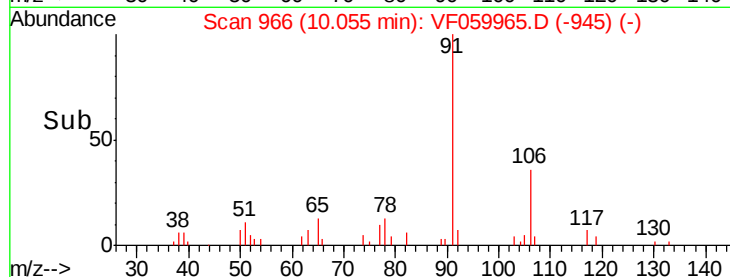
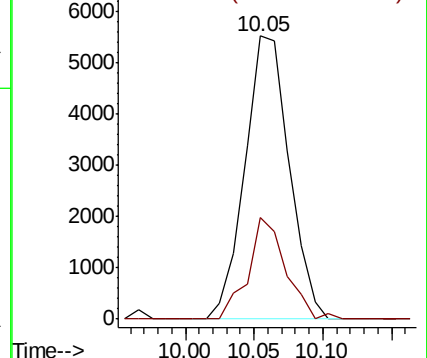
91 100

106 35.7 20.7 31.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 4.25 ug/l

RT: 10.29 min Scan# 990

Delta R.T. 0.00 min

Lab File: VF059965.D

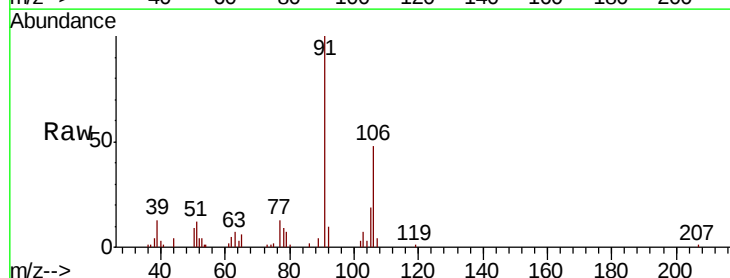
Acq: 15 Aug 2018 1:37

Tgt Ion:106 Resp: 8890

Ion Ratio Lower Upper

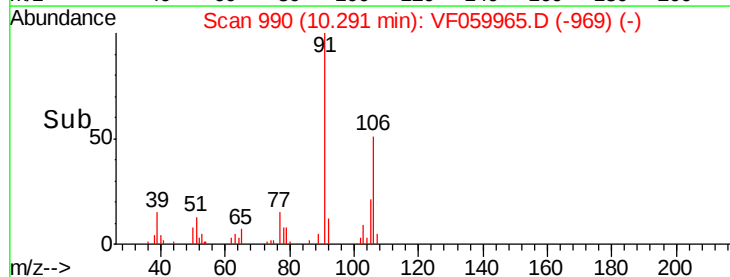
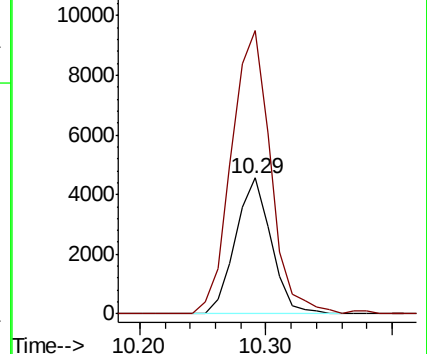
106 100

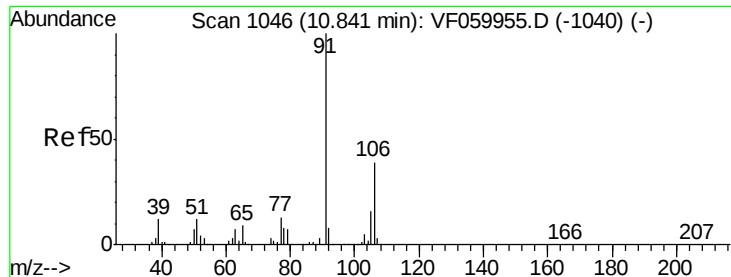
91 208.4 191.8 287.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

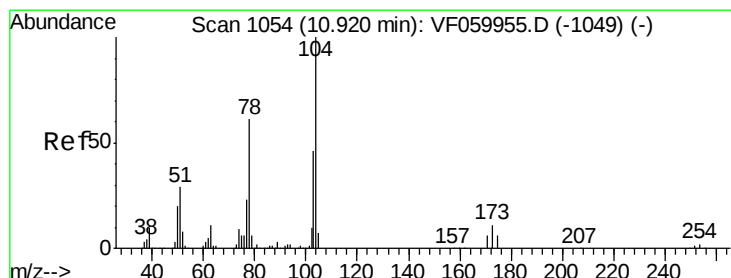
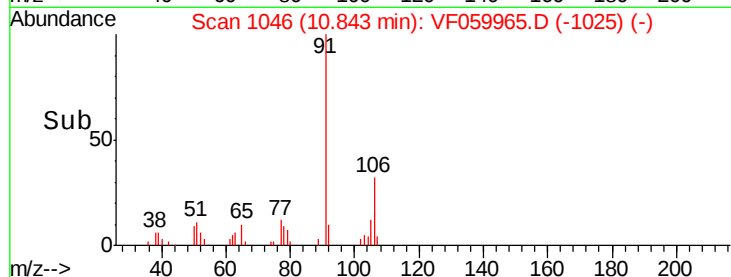
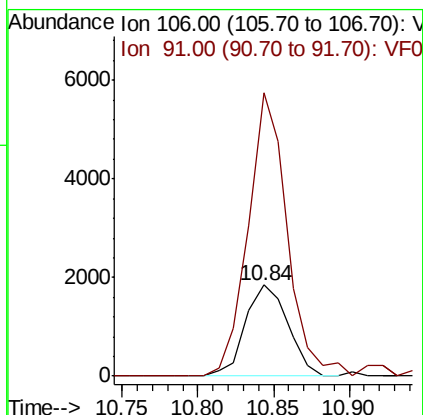
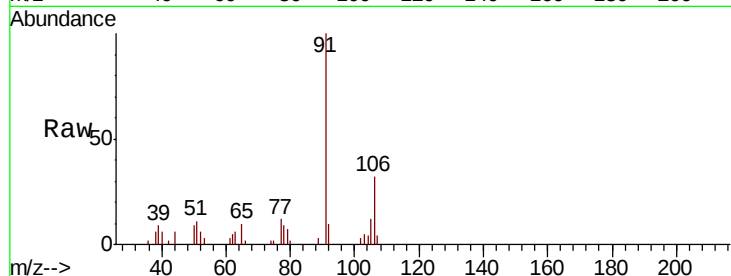




#69
o-Xylene
Concen: 1.60 ug/l
RT: 10.84 min Scan# 1046
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

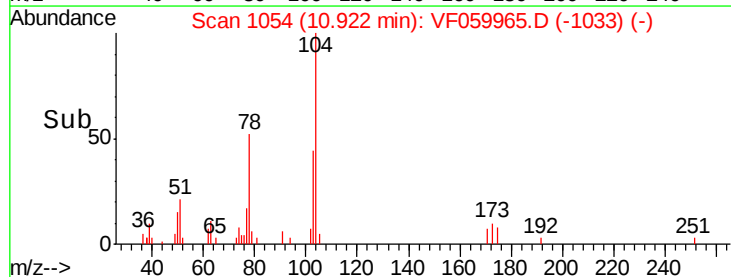
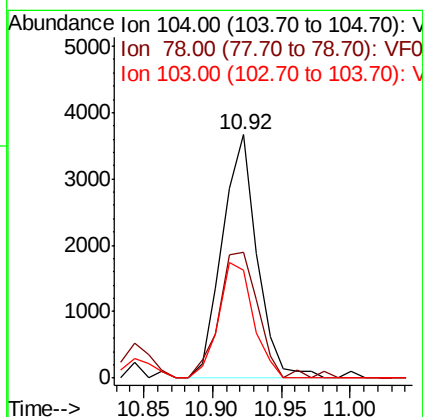
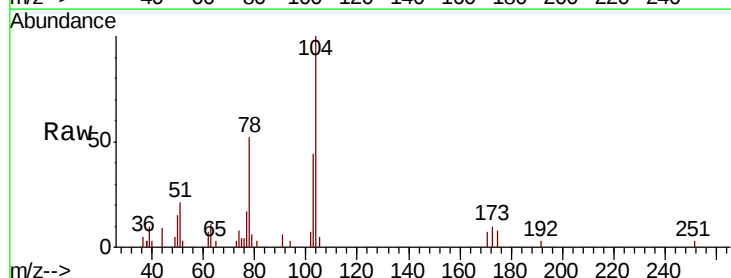
Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

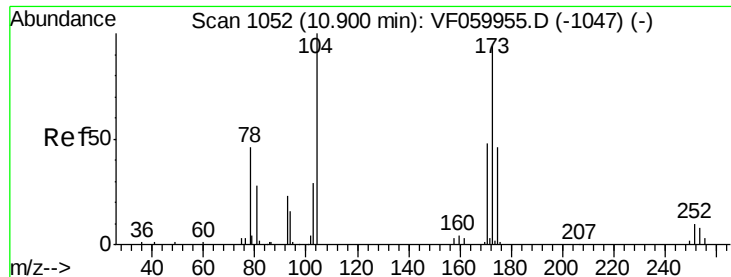
Tot Ion:106 Resp: 3631
Ion Ratio Lower Upper
106 100
91 310.6 126.8 380.6



#70
Styrene
Concen: 1.93 ug/l
RT: 10.92 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion:104 Resp: 6480
Ion Ratio Lower Upper
104 100
78 51.8 49.2 73.8
103 44.1 37.4 56.0





#71

Bromoform

Concen: 2.16 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

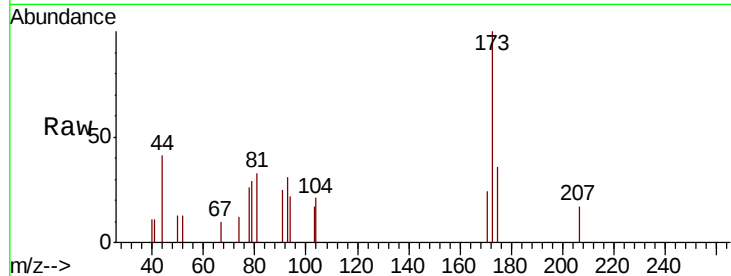
Tot Ion:173 Resp: 2290

Ion Ratio Lower Upper

173 100

175 36.4 24.6 73.6

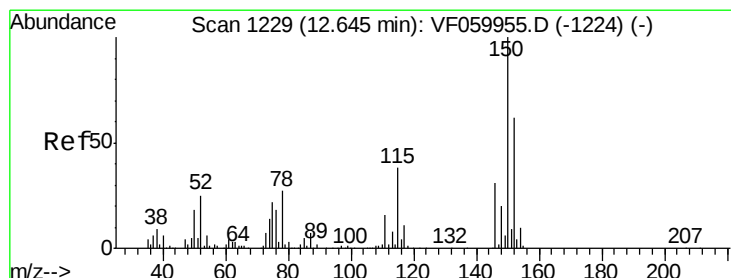
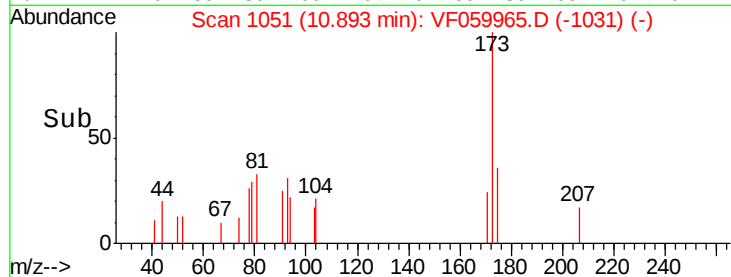
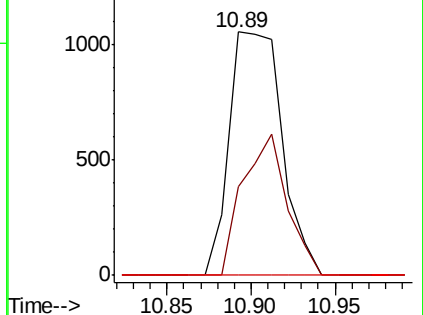
254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 12.65 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

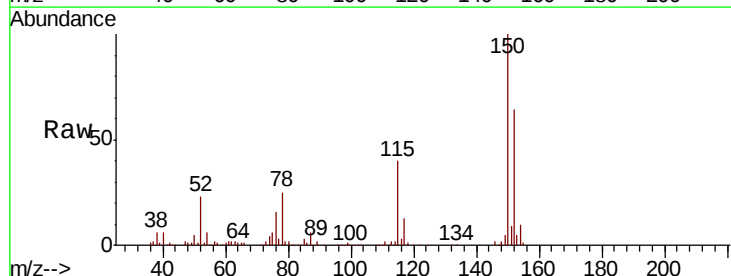
Tgt Ion:152 Resp: 119791

Ion Ratio Lower Upper

152 100

115 61.6 31.4 94.0

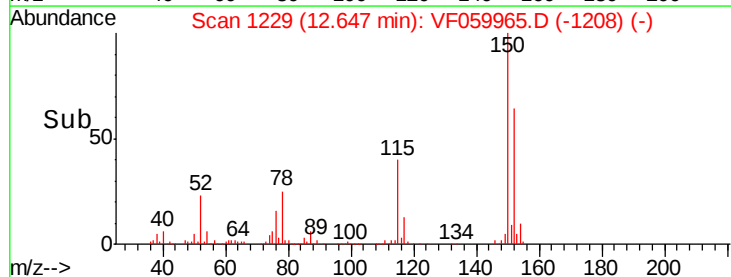
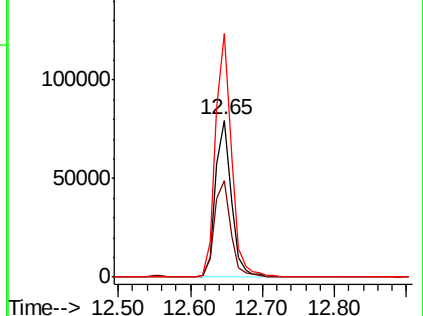
150 155.1 0.0 326.2

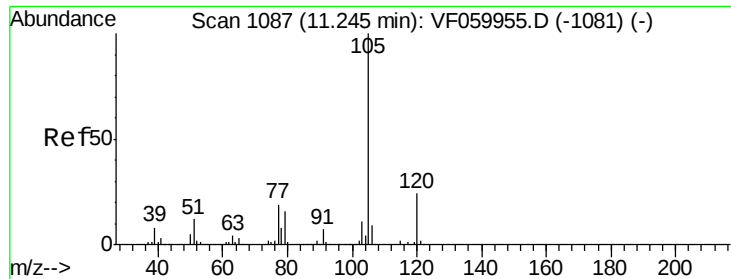


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 1.76 ug/l

RT: 11.25 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

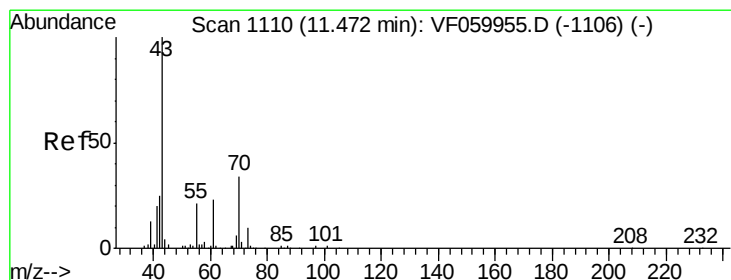
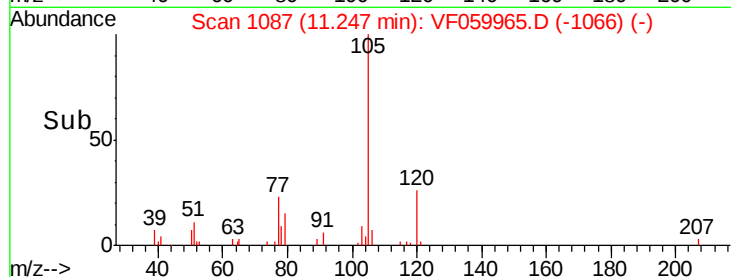
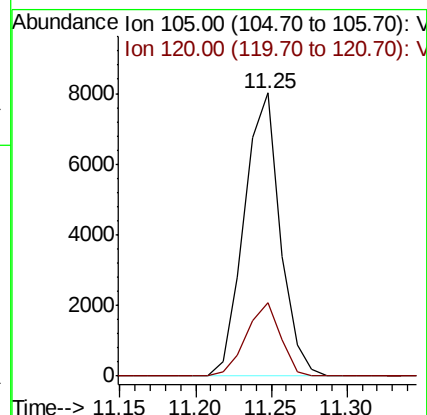
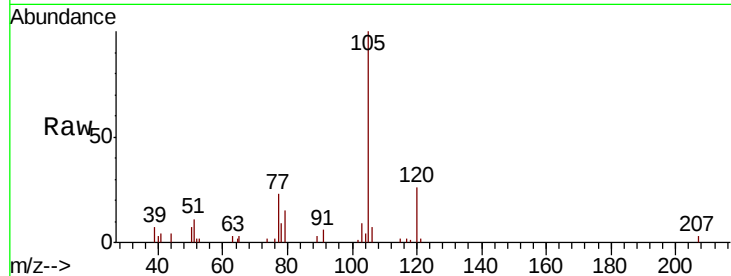
MDL-SOIL-03-QT3-2018

Tot Ion:105 Resp: 13283

Ion Ratio Lower Upper

105 100

120 25.8 11.9 35.9



#74

N-ethyl acetate

Concen: 1.82 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion: 43 Resp: 3029

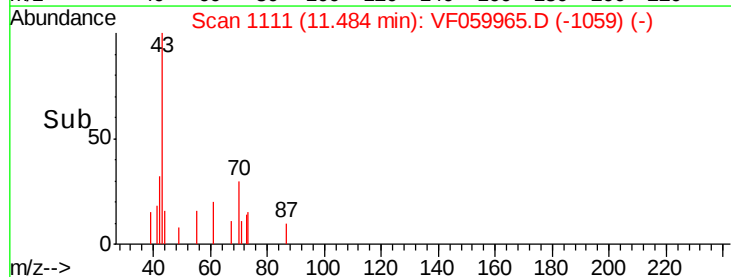
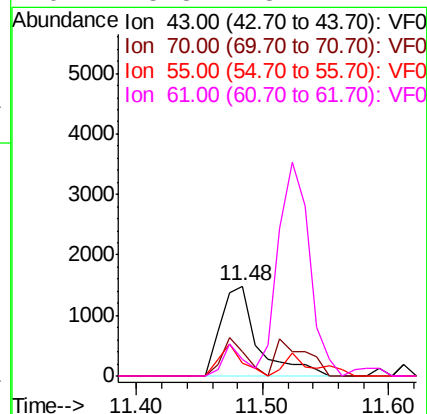
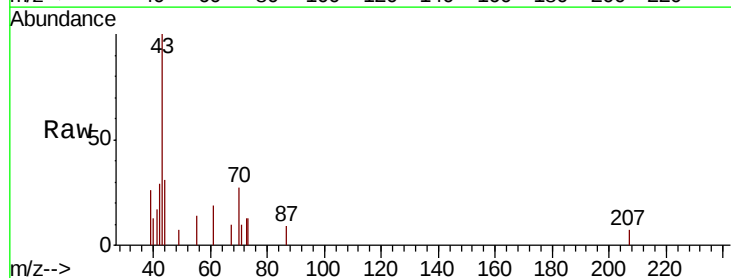
Ion Ratio Lower Upper

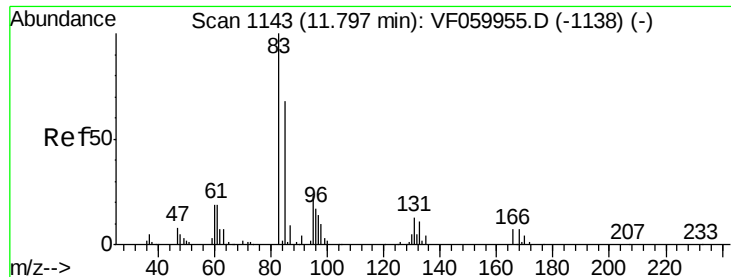
43 100

70 27.4 26.9 40.3

55 14.4 16.9 25.3#

61 18.8 18.1 27.1





#75

1,1,2,2-Tetrachloroethane

Concen: 2.31 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

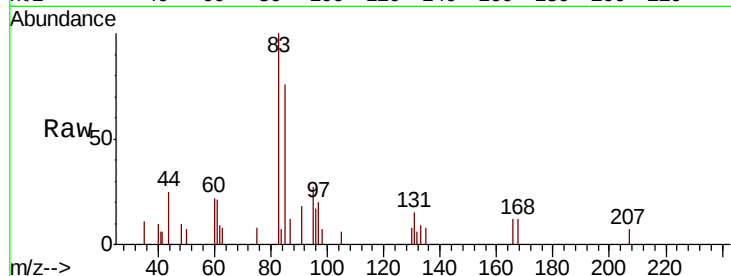
Tot Ion: 83 Resp: 2920

Ion Ratio Lower Upper

83 100

131 14.5 6.3 19.1

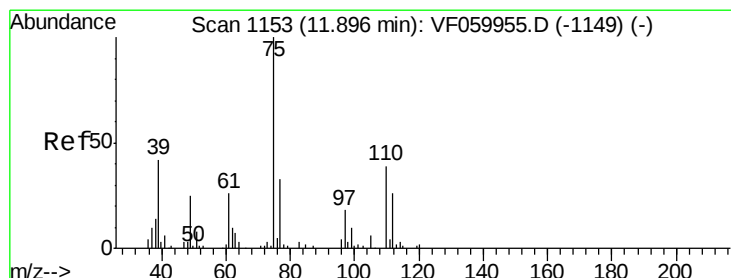
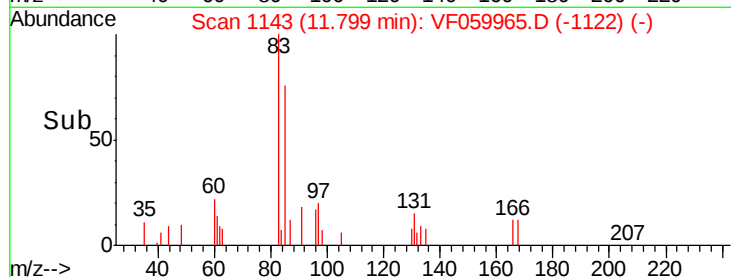
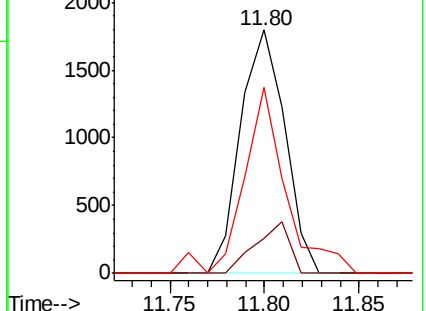
85 76.2 33.9 101.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 2.55 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF059965.D

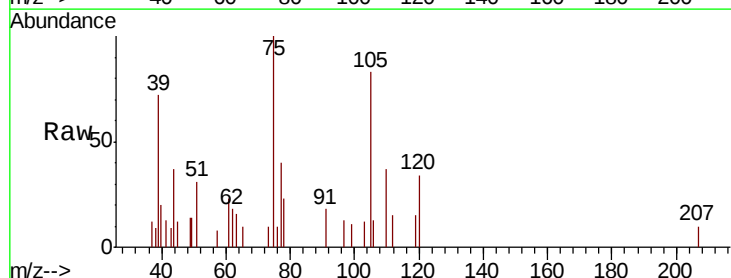
Acq: 15 Aug 2018 1:37

Tgt Ion: 75 Resp: 2790

Ion Ratio Lower Upper

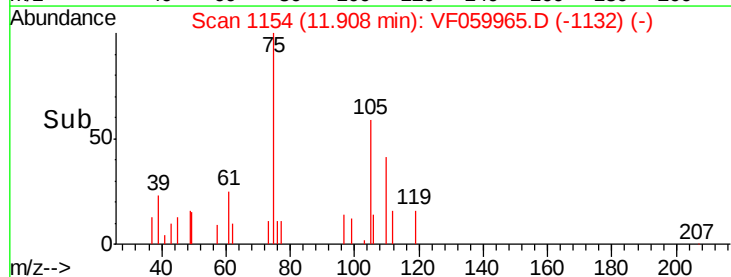
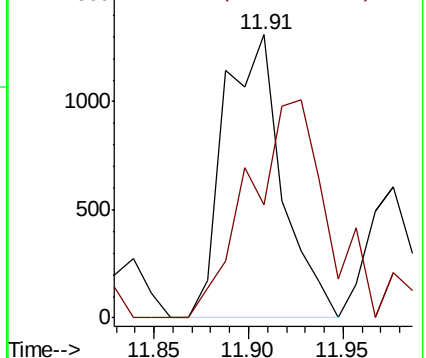
75 100

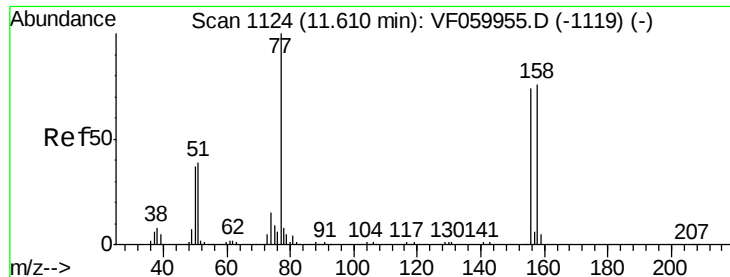
77 40.2 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 2.22 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

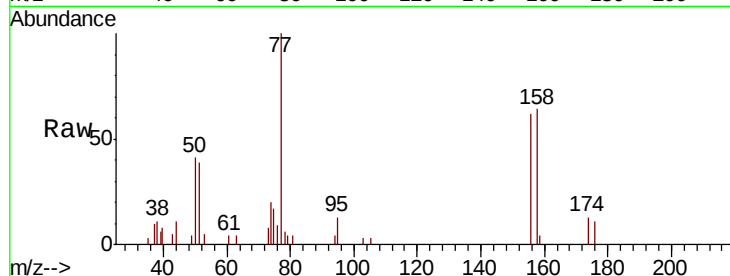
Tot Ion:156 Resp: 4384

Ion Ratio Lower Upper

156 100

77 161.6 67.8 203.2

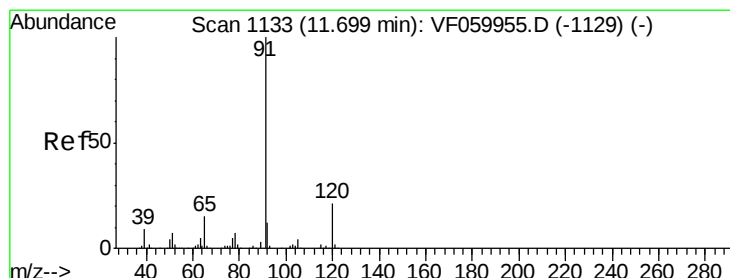
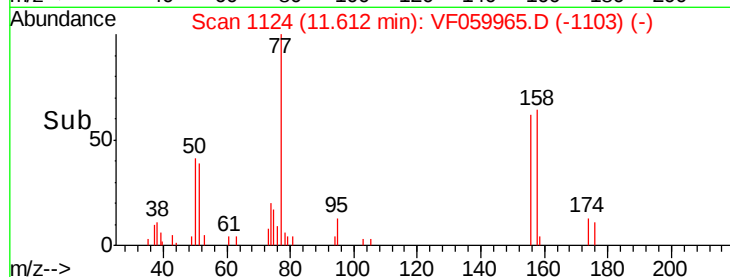
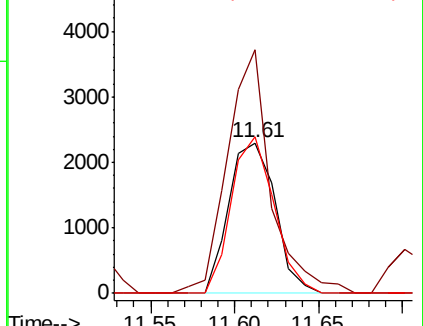
158 110.3 51.7 155.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 2.14 ug/l

RT: 11.70 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF059965.D

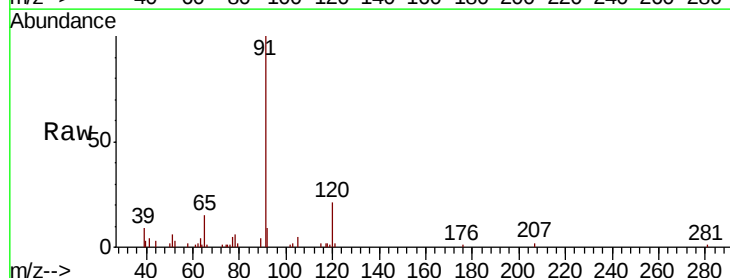
Acq: 15 Aug 2018 1:37

Tgt Ion: 91 Resp: 18912

Ion Ratio Lower Upper

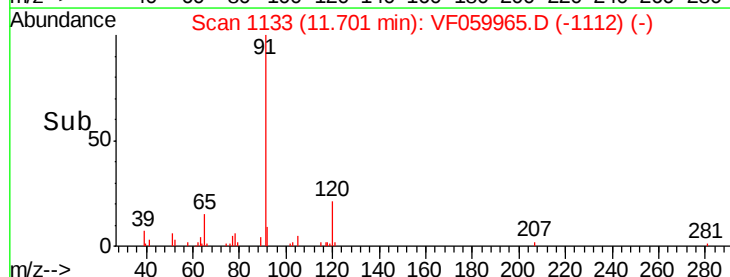
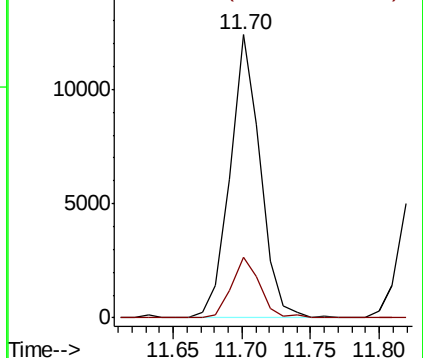
91 100

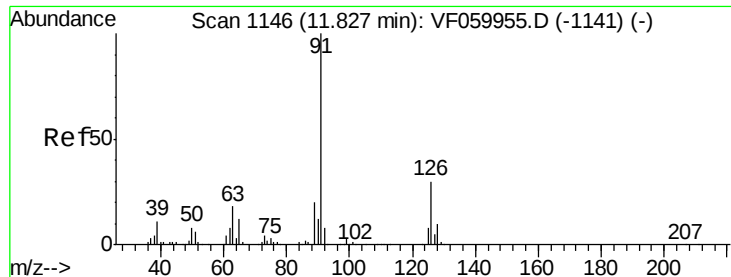
120 21.3 10.4 31.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.01 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

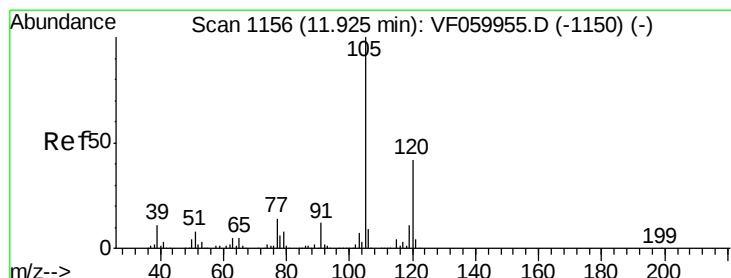
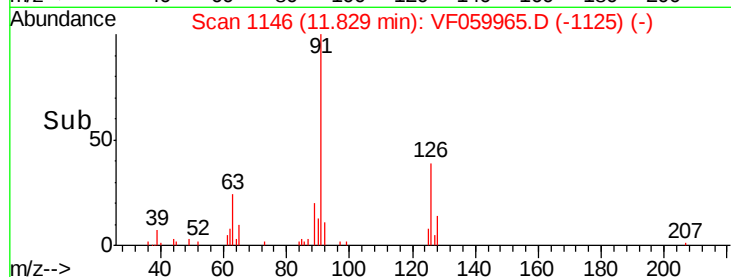
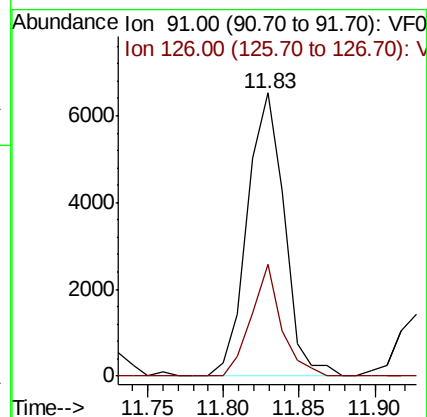
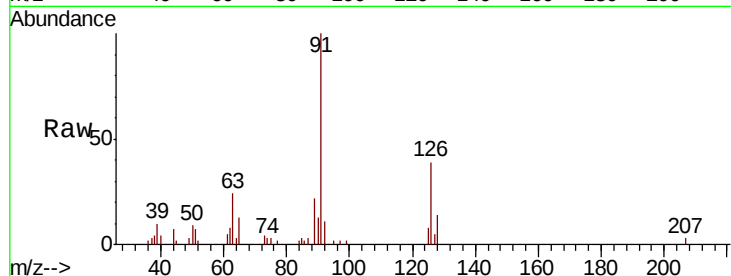
MDL-SOIL-03-QT3-2018

Tot Ion: 91 Resp: 11129

Ion Ratio Lower Upper

91 100

126 39.3 15.2 45.5



#80

1,3,5-Trimethylbenzene

Concen: 1.79 ug/l

RT: 11.93 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VF059965.D

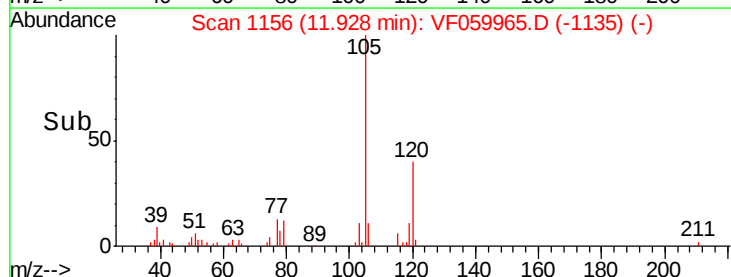
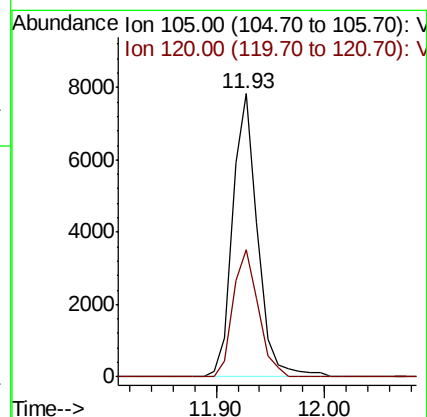
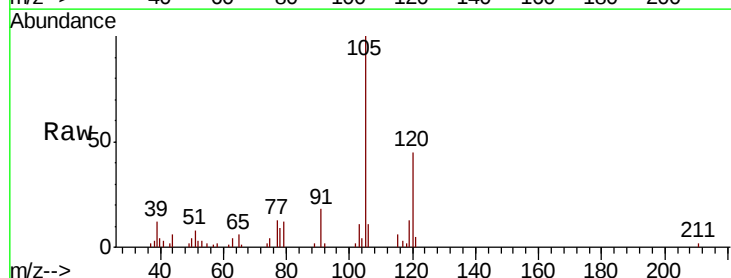
Acq: 15 Aug 2018 1:37

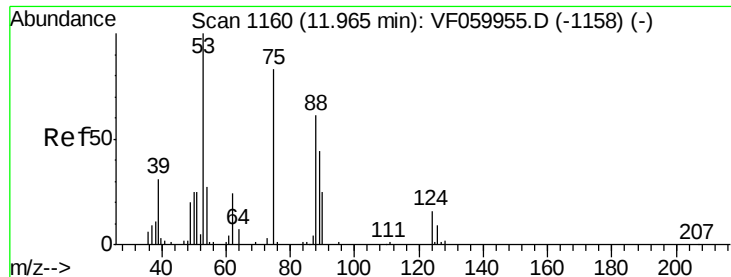
Tgt Ion:105 Resp: 12536

Ion Ratio Lower Upper

105 100

120 44.8 21.1 63.3





#81

trans-1,4-Dichloro-2-butene

Concen: 3.61 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

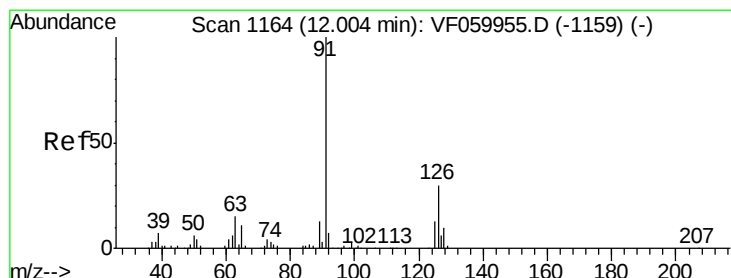
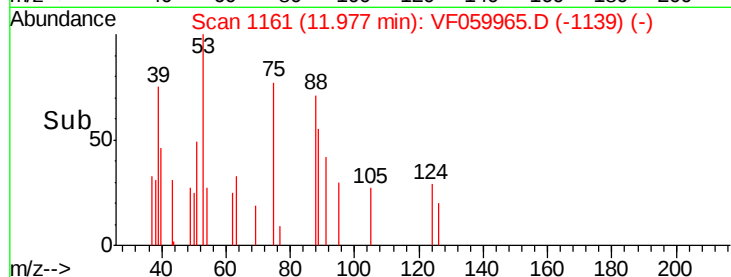
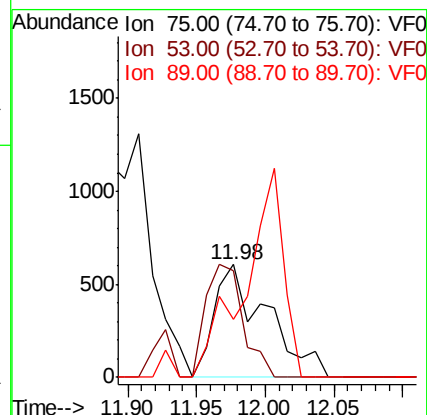
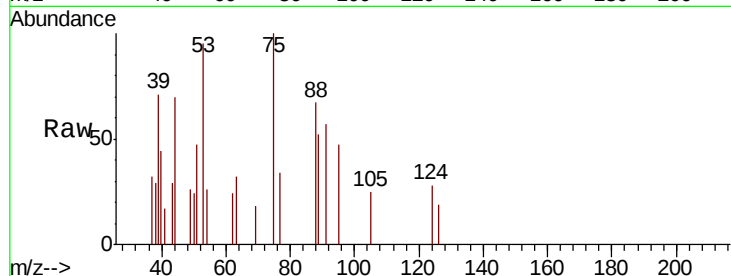
Tot Ion: 75 Resp: 1609

Ion Ratio Lower Upper

75 100

53 95.1 97.1 145.7#

89 51.9 43.6 65.4



#82

4-Chlorotoluene

Concen: 2.13 ug/l

RT: 12.01 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VF059965.D

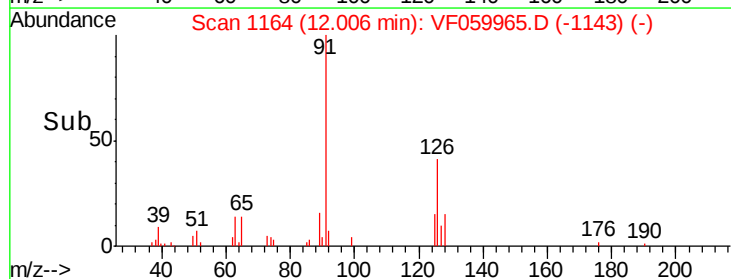
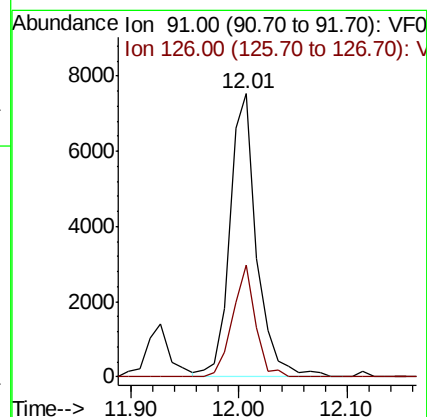
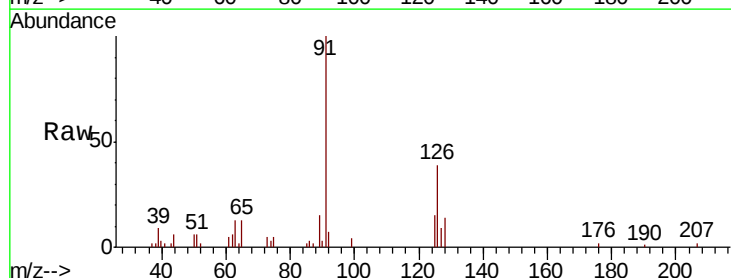
Acq: 15 Aug 2018 1:37

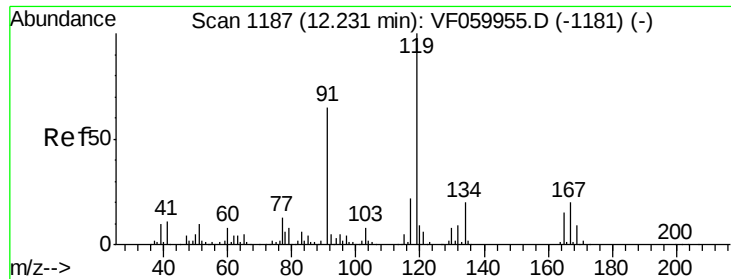
Tgt Ion: 91 Resp: 12993

Ion Ratio Lower Upper

91 100

126 39.4 15.3 45.8

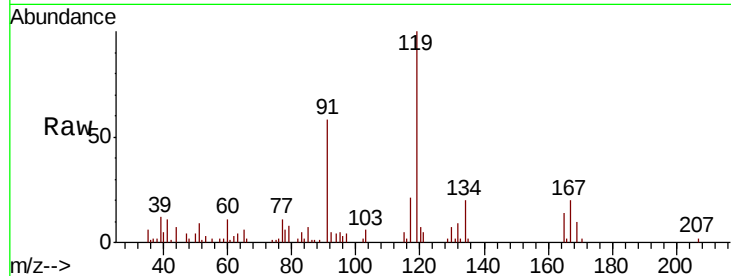




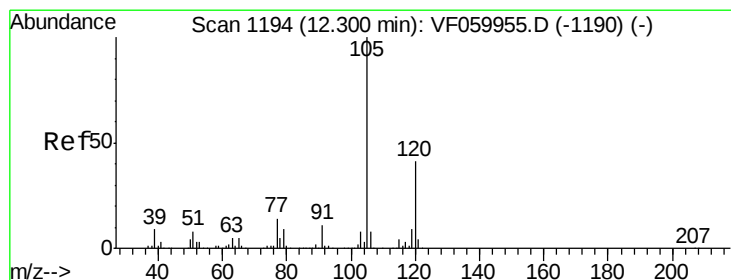
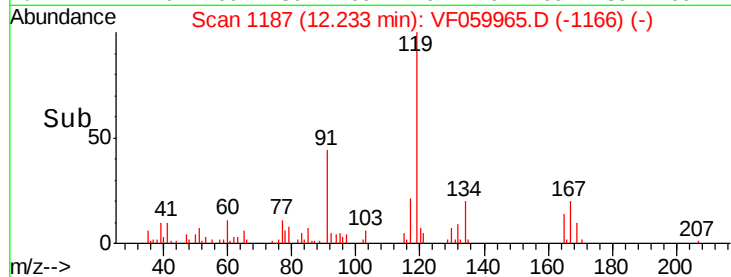
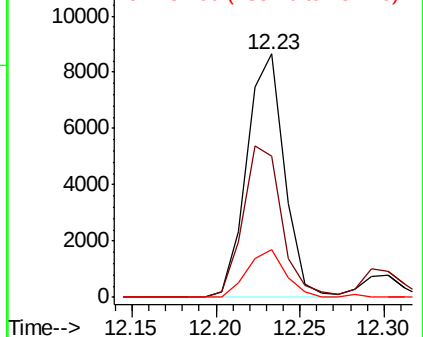
#83
tert-Butylbenzene
Concen: 1.95 ug/l
RT: 12.23 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion:119 Resp: 13444
Ion Ratio Lower Upper
119 100
91 58.1 32.6 98.0
134 19.6 10.1 30.3

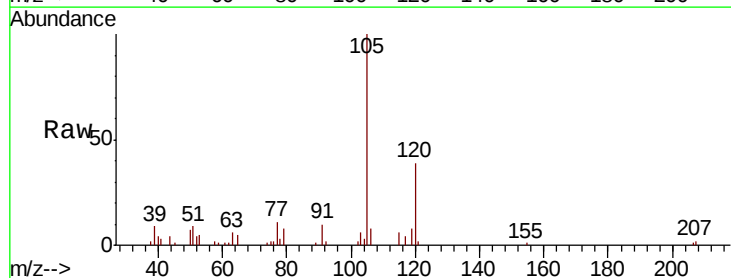


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

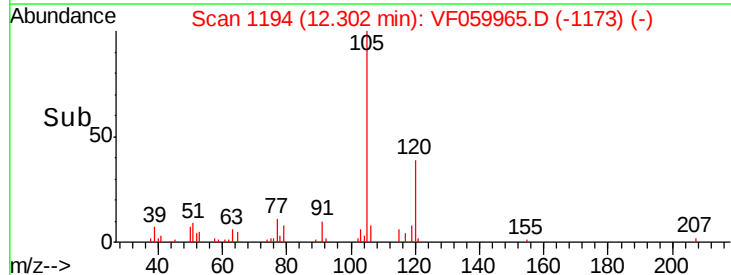
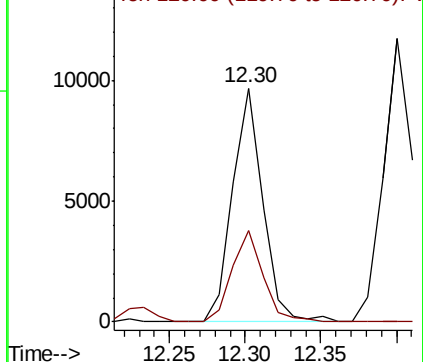


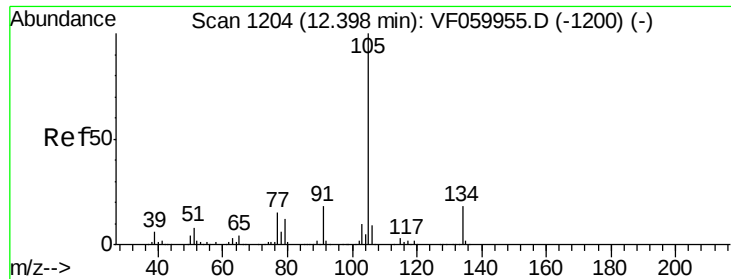
#84
1,2,4-Trimethylbenzene
Concen: 1.90 ug/l
RT: 12.30 min Scan# 1194
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion:105 Resp: 13433
Ion Ratio Lower Upper
105 100
120 38.9 20.6 61.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

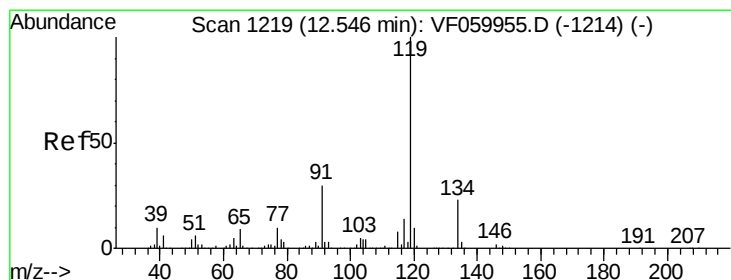
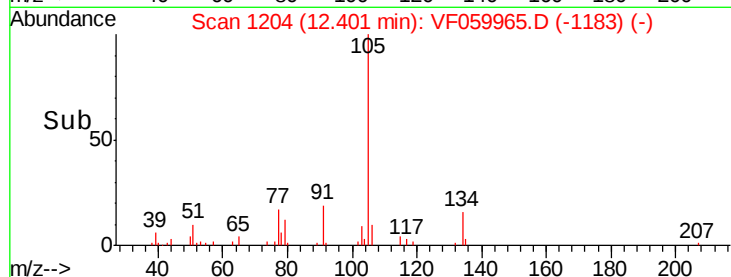
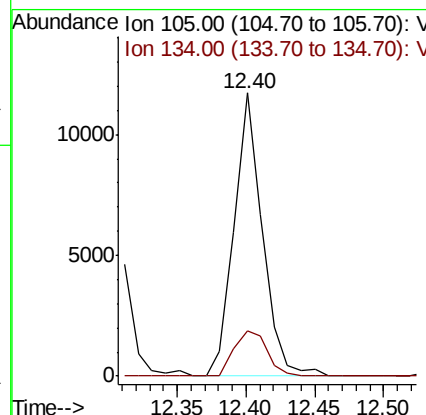
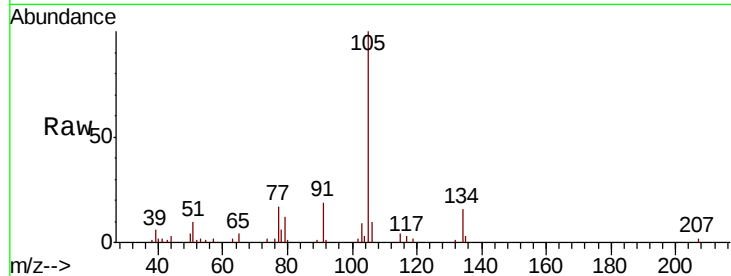




#85
 sec-Butylbenzene
 Concen: 1.90 ug/l
 RT: 12.40 min Scan# 1204
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

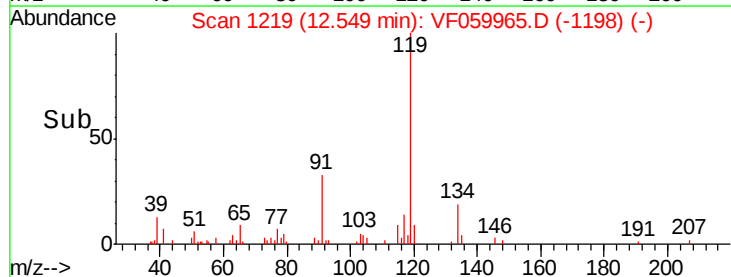
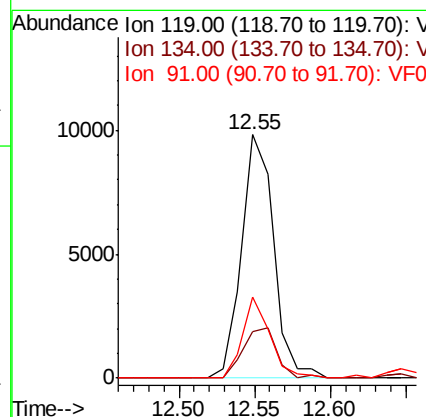
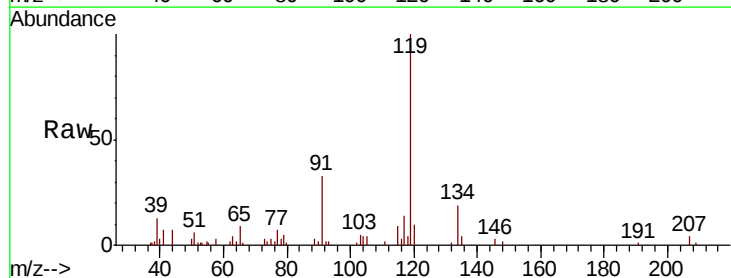
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

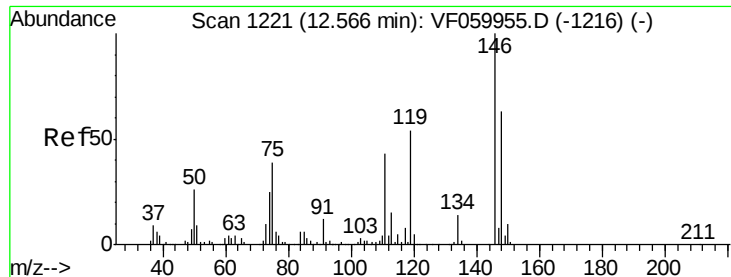
Tot Ion:105 Resp: 16768
 Ion Ratio Lower Upper
 105 100
 134 16.0 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 1.86 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Tgt Ion:119 Resp: 14449
 Ion Ratio Lower Upper
 119 100
 134 19.1 11.4 34.2
 91 33.3 14.8 44.4





#87

1,3-Dichlorobenzene

Concen: 2.42 ug/l

RT: 12.57 min Scan# 1221

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

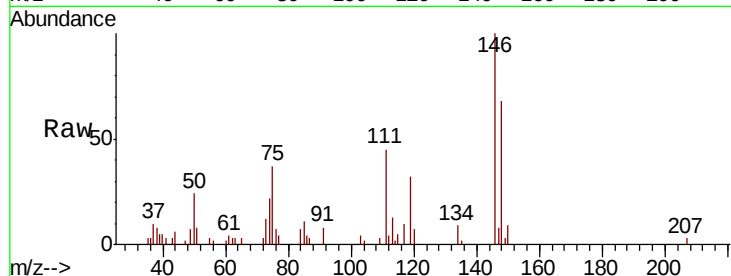
Tot Ion:146 Resp: 9073

Ion Ratio Lower Upper

146 100

111 44.6 21.3 63.9

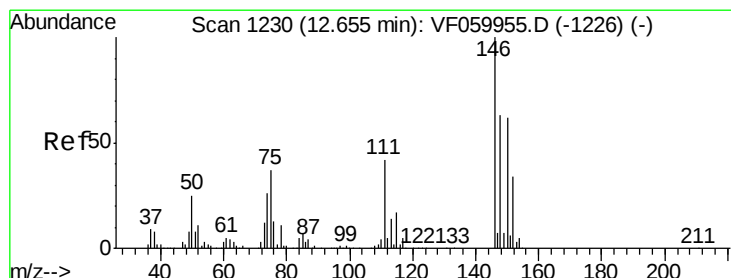
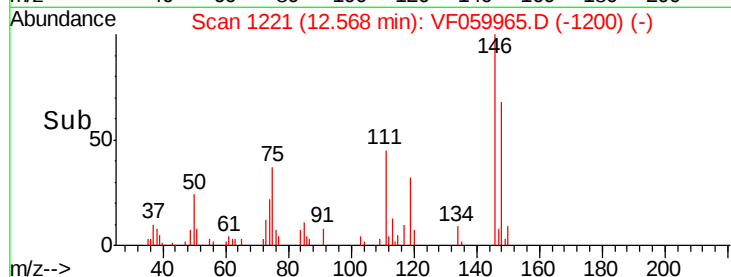
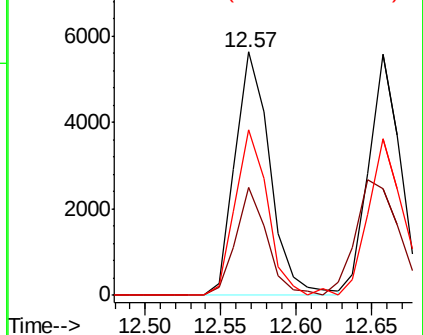
148 67.9 31.4 94.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 2.30 ug/l

RT: 12.66 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

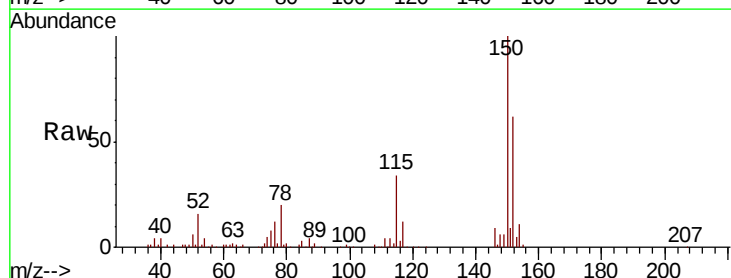
Tgt Ion:146 Resp: 8485

Ion Ratio Lower Upper

146 100

111 44.4 21.1 63.1

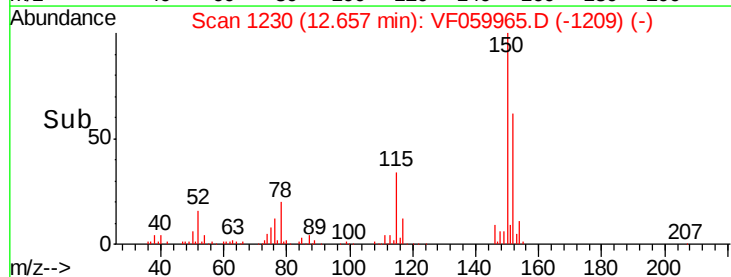
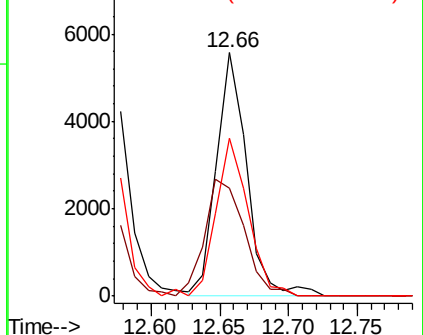
148 65.1 31.7 95.1

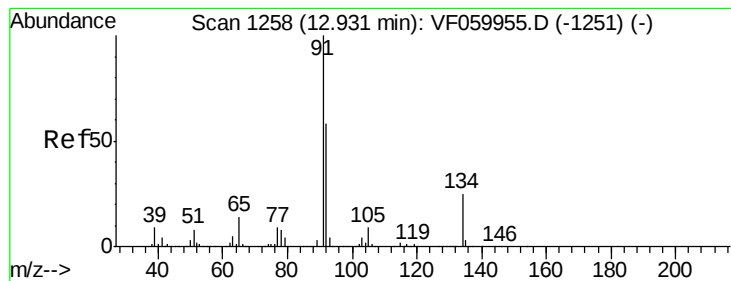


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 1.87 ug/l

RT: 12.93 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

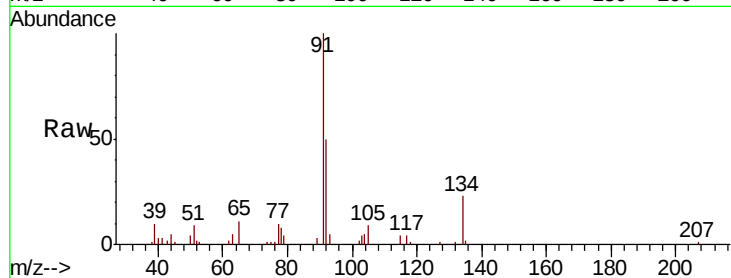
Tot Ion: 91 Resp: 13984

Ion Ratio Lower Upper

91 100

92 49.8 29.2 87.6

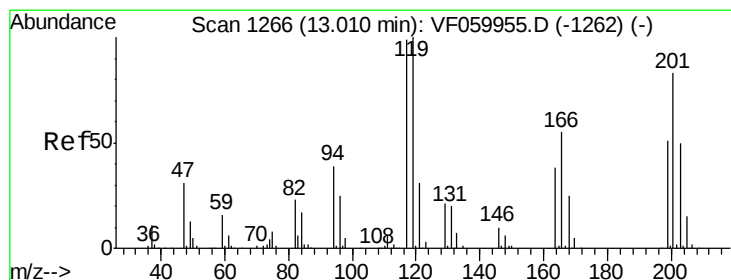
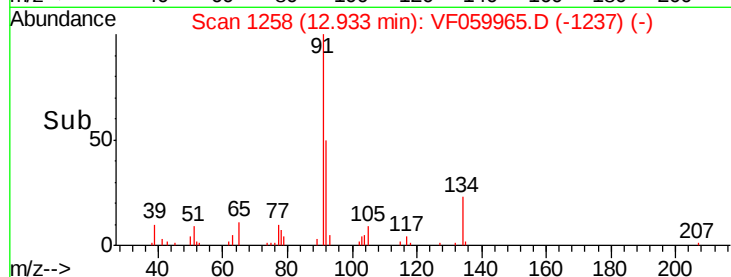
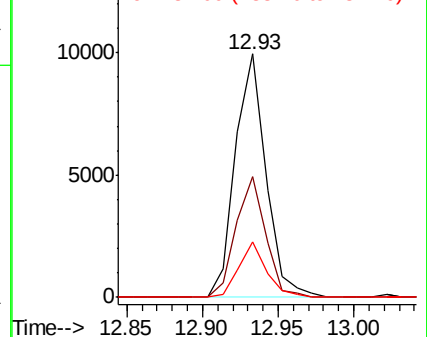
134 22.8 12.8 38.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 2.10 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VF059965.D

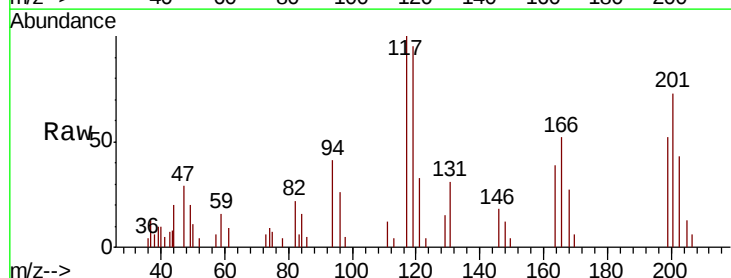
Acq: 15 Aug 2018 1:37

Tgt Ion: 117 Resp: 4040

Ion Ratio Lower Upper

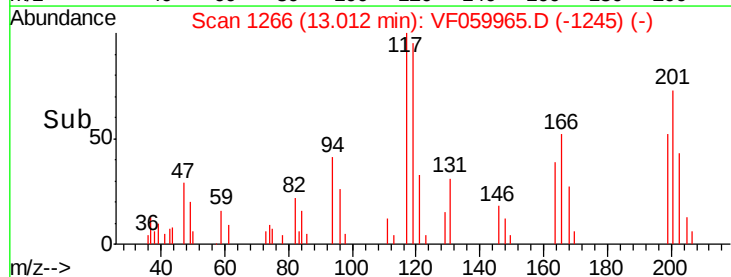
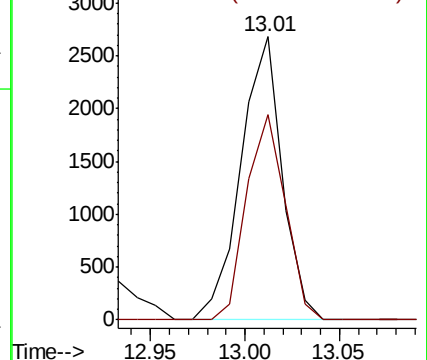
117 100

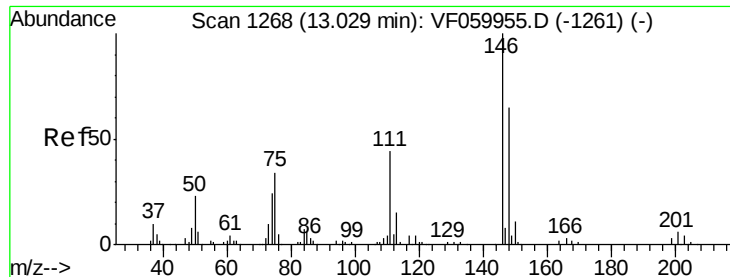
201 72.7 41.8 125.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

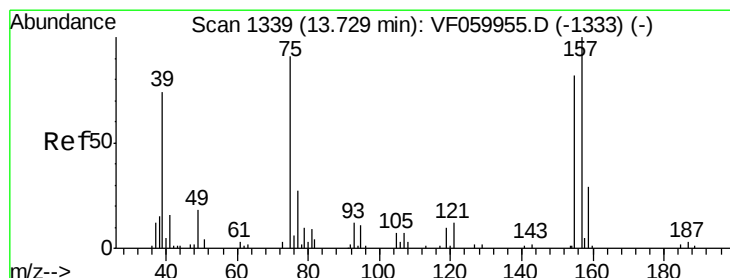
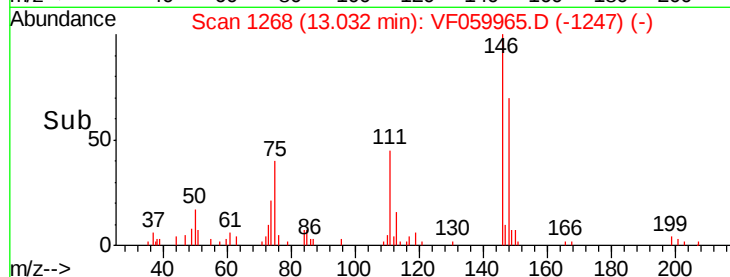
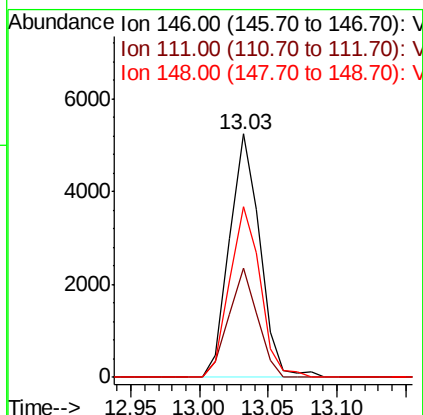
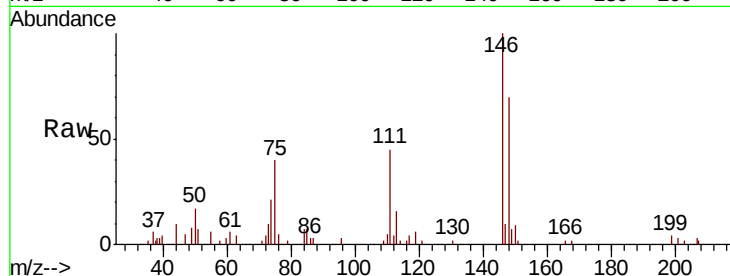




#91
 1,2-Dichlorobenzene
 Concen: 2.22 ug/l
 RT: 13.03 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

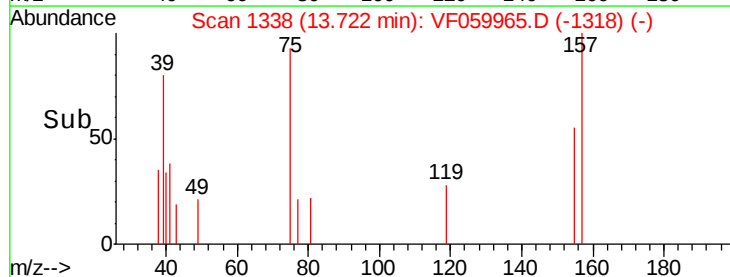
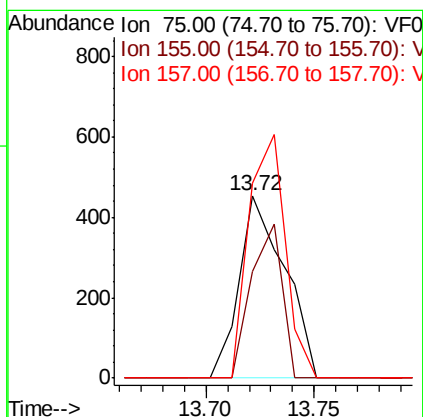
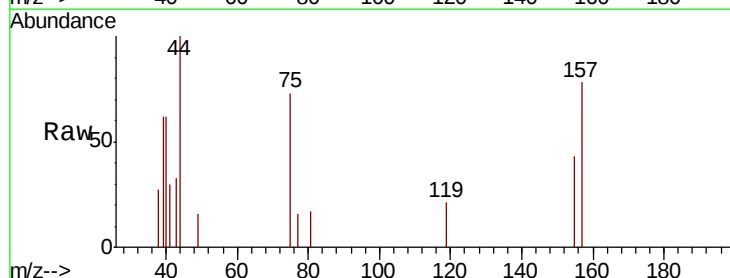
Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

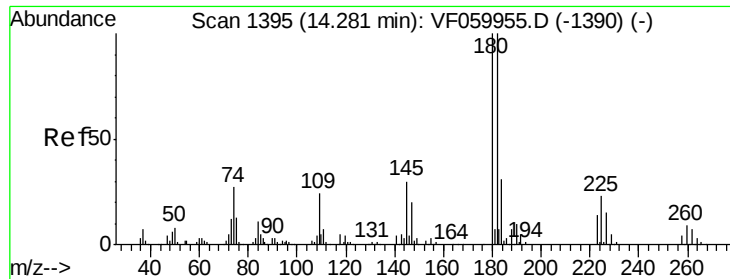
Tot Ion:146 Resp: 8091
 Ion Ratio Lower Upper
 146 100
 111 44.8 22.0 66.0
 148 70.3 32.4 97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.96 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Tgt Ion: 75 Resp: 674
 Ion Ratio Lower Upper
 75 100
 155 58.6 44.6 134.0
 157 107.0 54.8 164.3

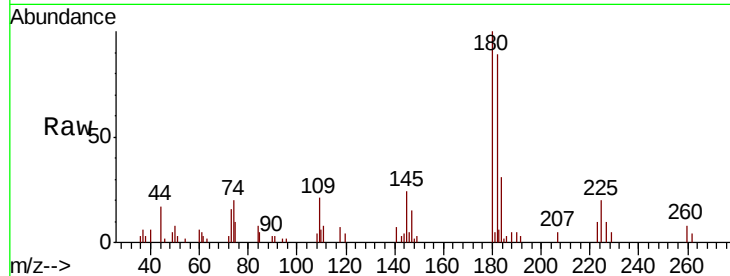




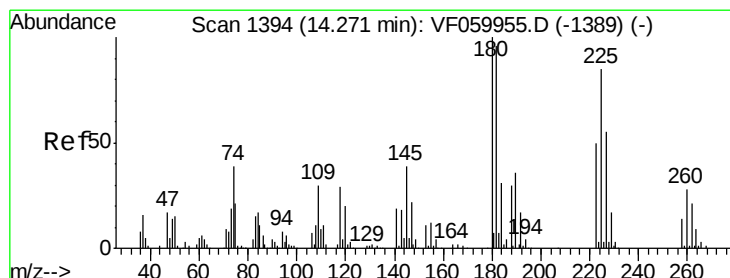
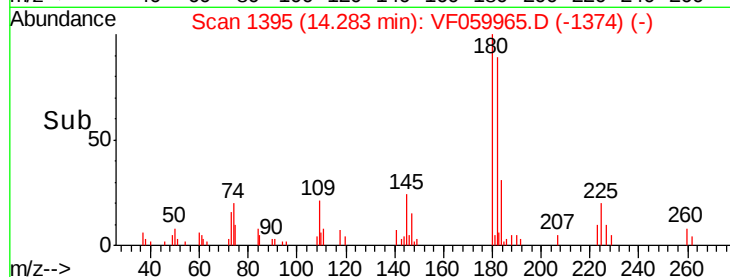
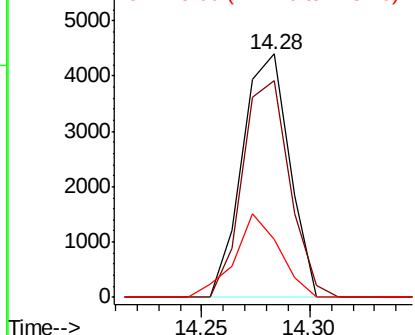
#93
 1,2,4-Trichlorobenzene
 Concen: 2.31 ug/l
 RT: 14.28 min Scan# 1395
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion:180 Resp: 6736
 Ion Ratio Lower Upper
 180 100
 182 89.2 50.2 150.7
 145 24.0 14.9 44.9

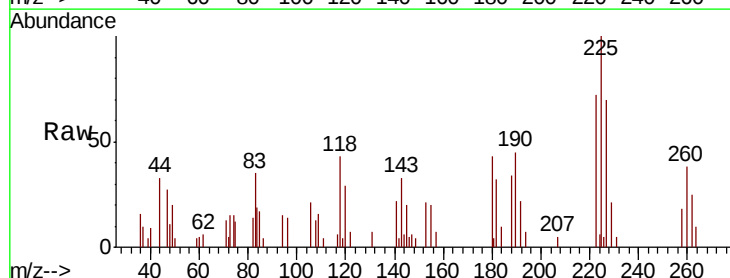


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

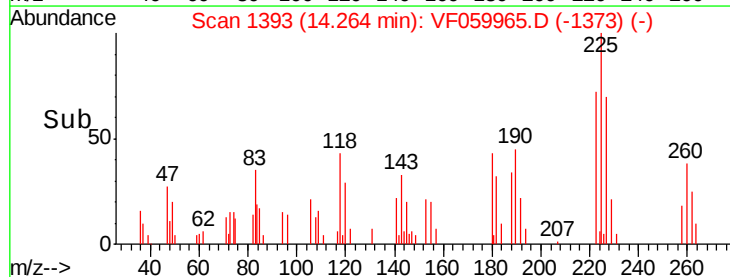
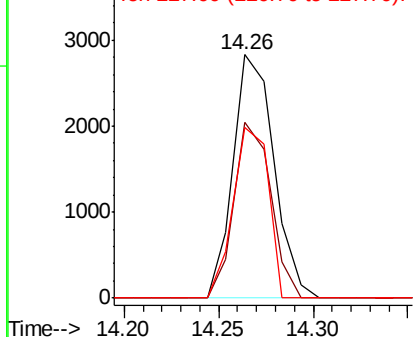


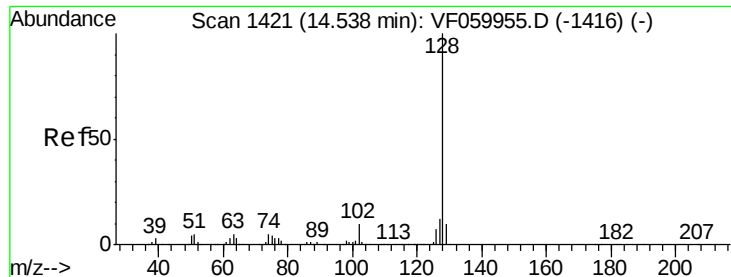
#94
 Hexachlorobutadiene
 Concen: 2.03 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Tgt Ion:225 Resp: 4225
 Ion Ratio Lower Upper
 225 100
 223 72.2 29.6 88.8
 227 70.3 32.5 97.5



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

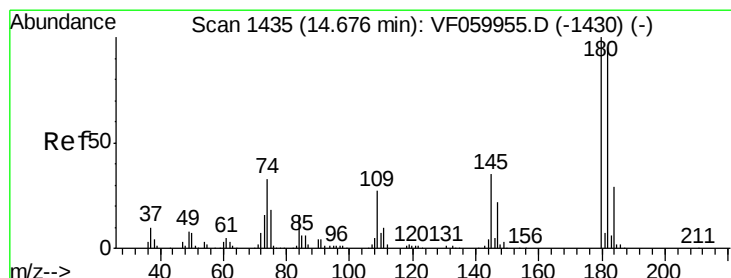
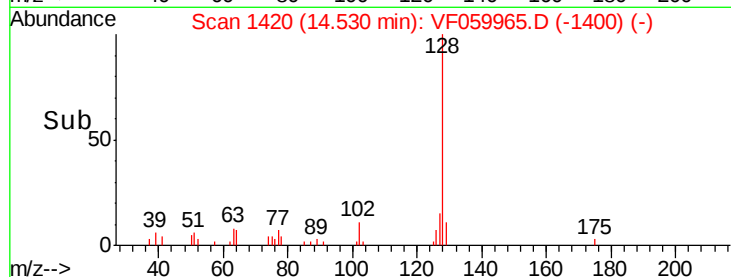
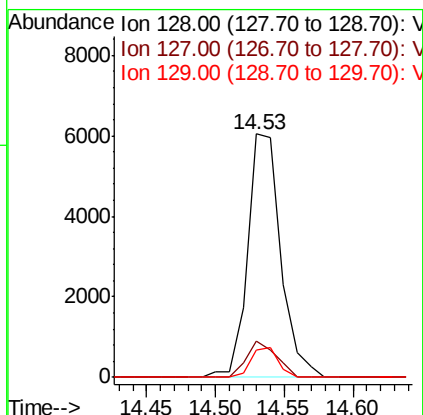
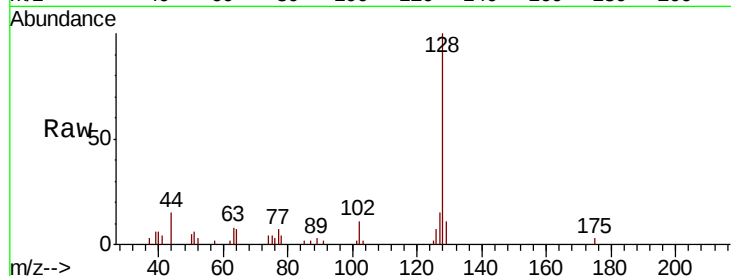




#95
Naphthalene
Concen: 2.13 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Instrument :
MSVOA_F
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion:128 Resp: 10154
Ion Ratio Lower Upper
128 100
127 15.0 9.9 14.9#
129 11.1 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 2.12 ug/l
RT: 14.68 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion:180 Resp: 5897
Ion Ratio Lower Upper
180 100
182 90.4 47.5 142.6
145 27.1 17.6 52.8

