

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 : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 46 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

apatel
 8/16/2018 12:19:48 PM

Quant Time: Aug 15 12:06:12 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
14) Allvl 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	5994m	1.54	ug/l	
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
38) Carbon Tetrachloride	4.19	117	6618	2.03	ug/l #	79
39) Methylcyclohexane	5.64	83	2620	1.84	ug/l	94
40) Benzene	4.83	78	7500	2.26	ug/l #	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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
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) 1,1,1,2-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
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

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

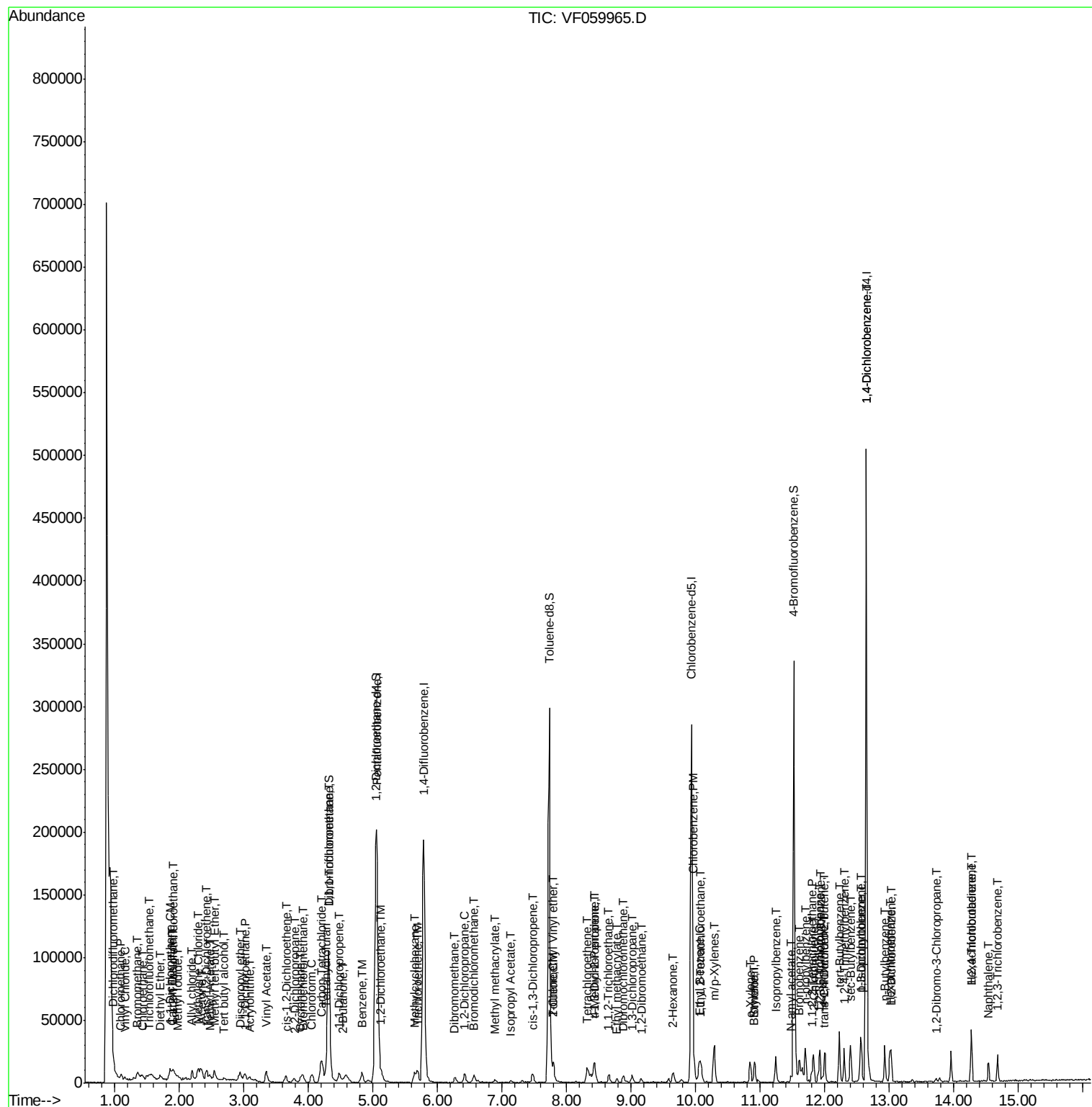
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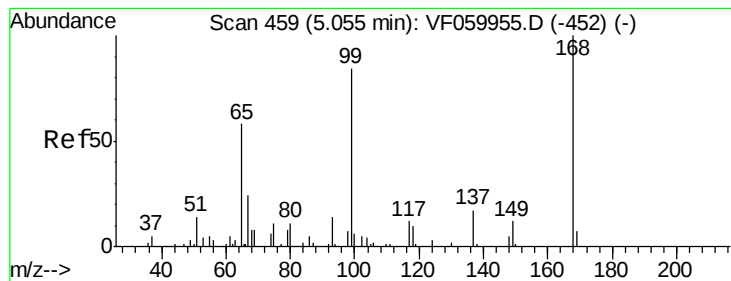
Instrument :
MSVOA_F
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#1

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

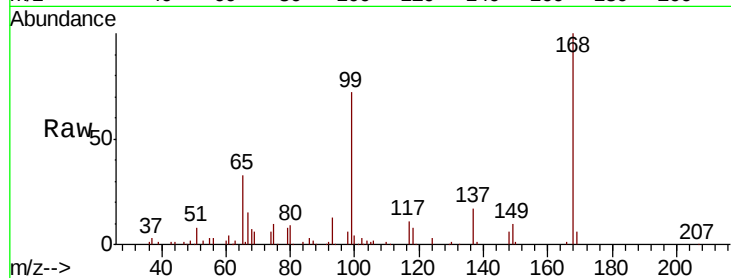
99 72.1 67.4 101.0

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

40000

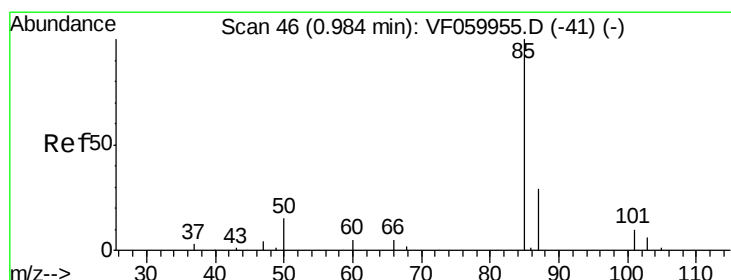
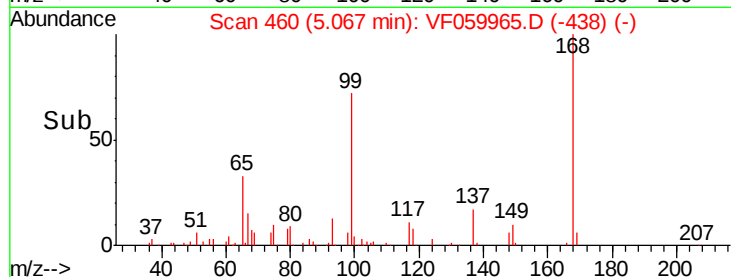
30000

20000

10000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.49 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059965.D

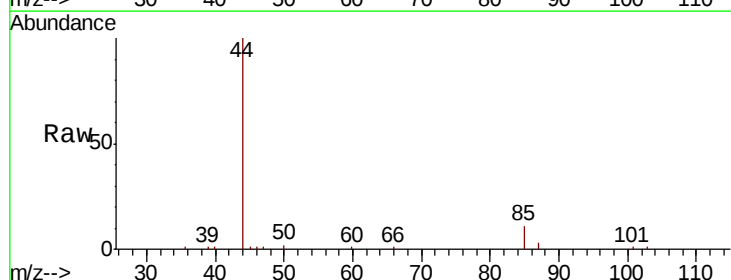
Acq: 15 Aug 2018 1:37

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

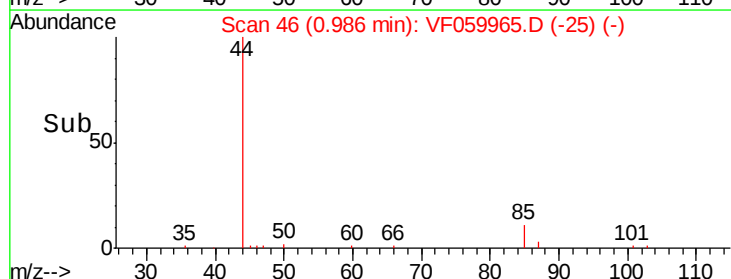
1500

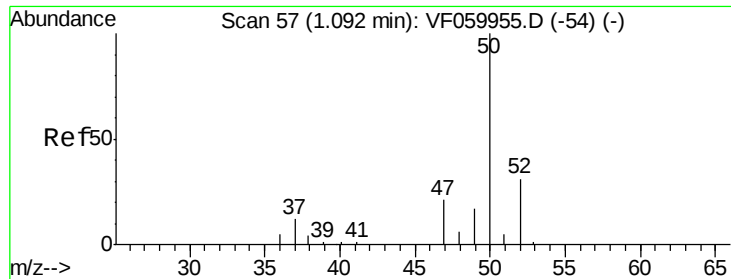
1000

500

0

Time-->





#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

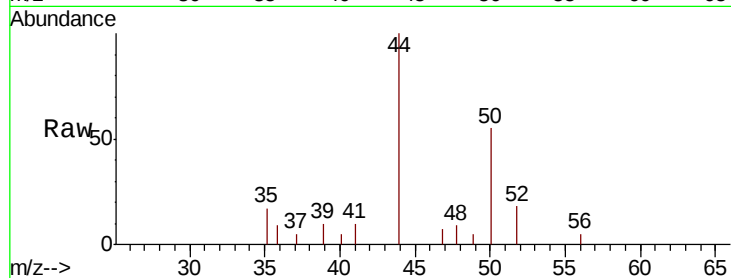
52 33.0 24.2 36.2

Manual Integrations

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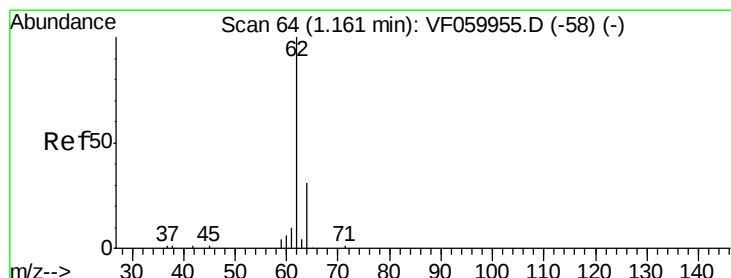
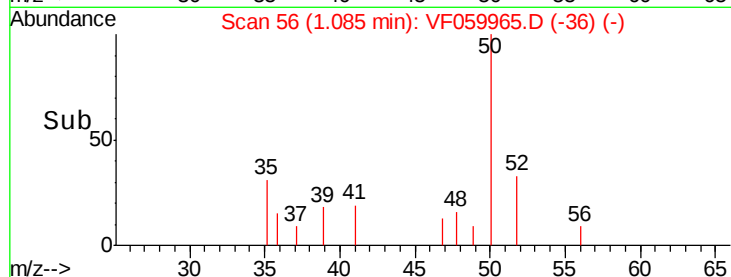
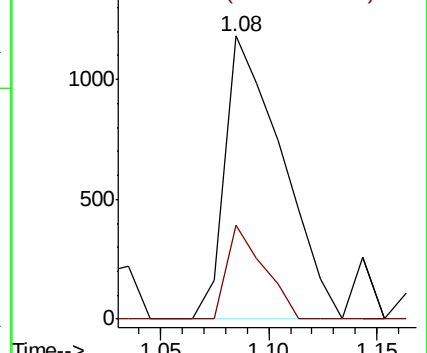
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Abundance Ion 50.00 (49.70 to 50.70): VF0

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

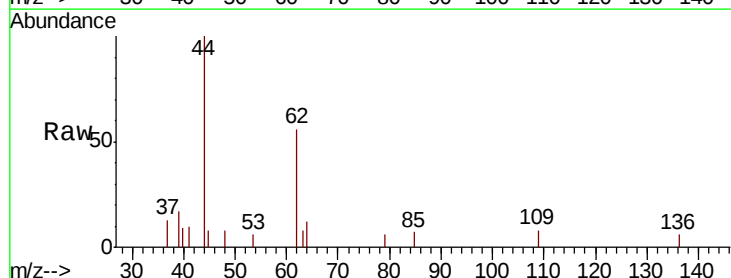
Acq: 15 Aug 2018 1:37

Tgt Ion: 62 Resp: 2169

Ion Ratio Lower Upper

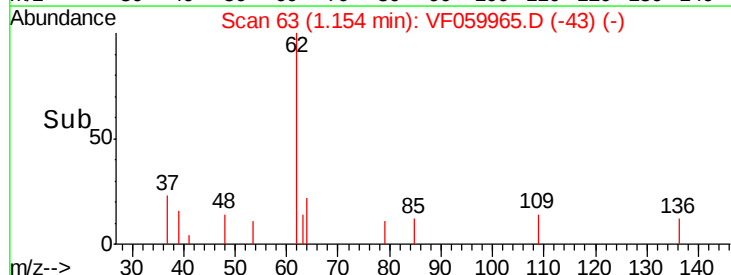
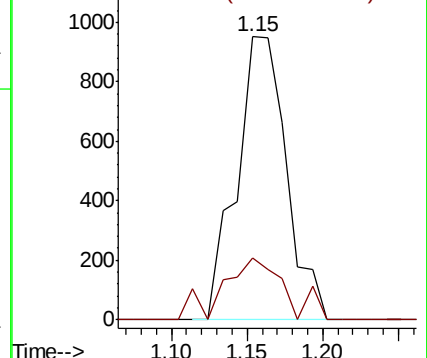
62 100

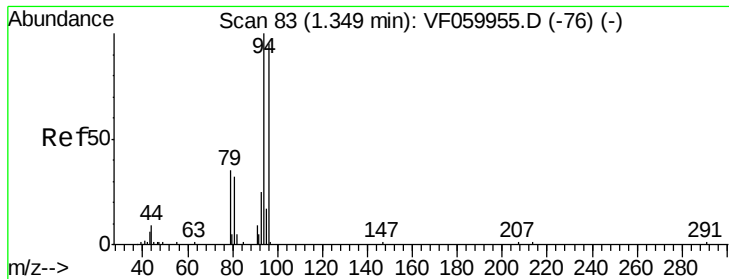
64 21.9 24.7 37.1#



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

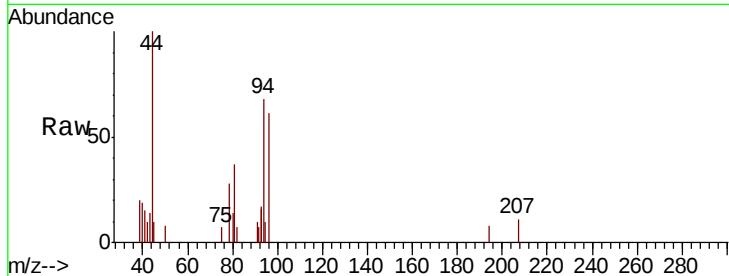
94 100

96 79.3 76.3 114.5

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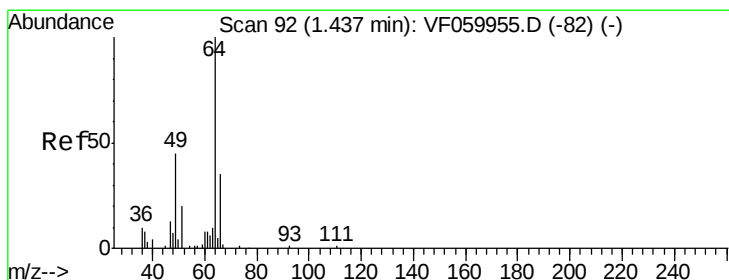
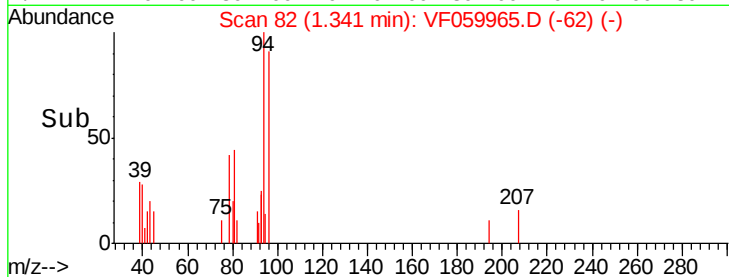
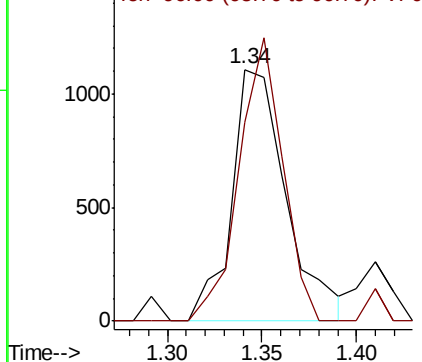
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Abundance Ion 94.00 (93.70 to 94.70): VF0

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

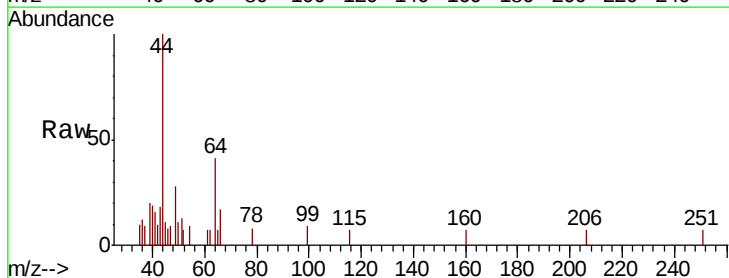
Acq: 15 Aug 2018 1:37

Tgt Ion: 64 Resp: 1357

Ion Ratio Lower Upper

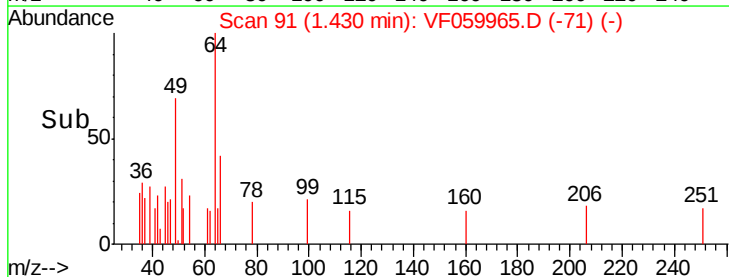
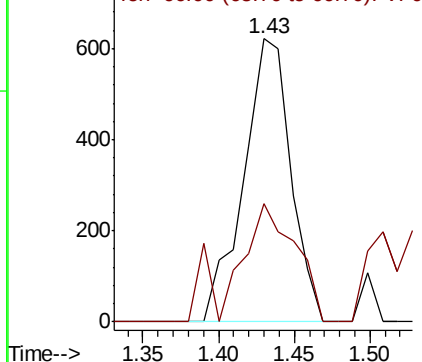
64 100

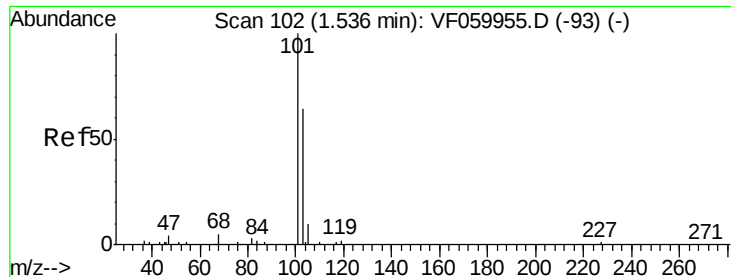
66 41.6 28.2 42.2



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 :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:101 Resp: 5727

Ion Ratio Lower Upper

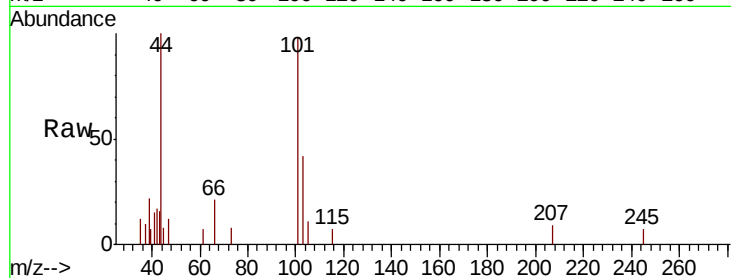
101 100

103 42.7 51.6 77.4#

Manual Integrations
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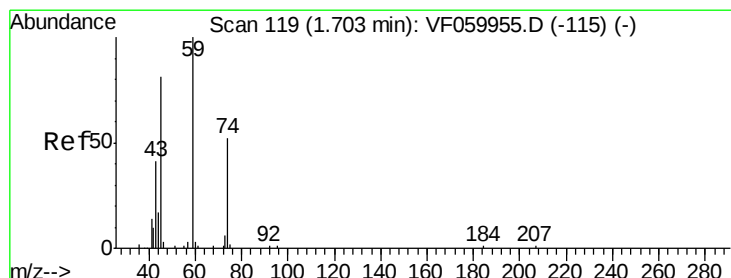
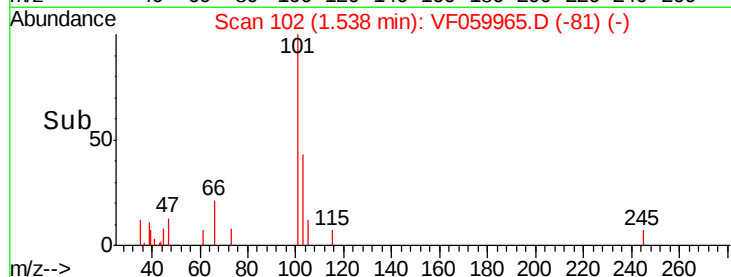
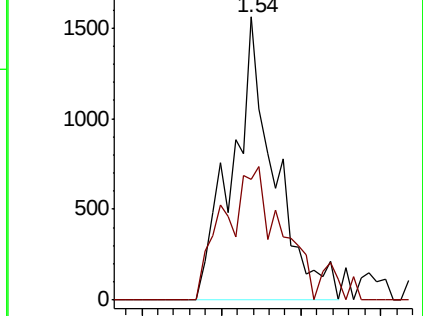
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 1.30 ug/l

RT: 1.71 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF059965.D

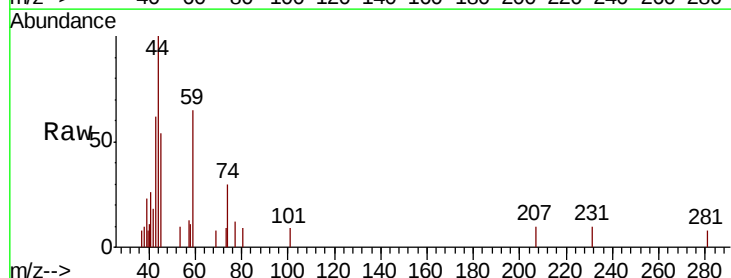
Acq: 15 Aug 2018 1:37

Tgt Ion: 74 Resp: 476

Ion Ratio Lower Upper

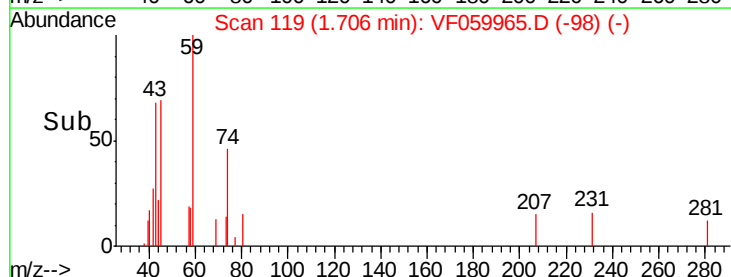
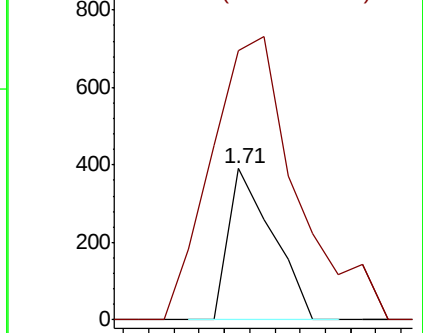
74 100

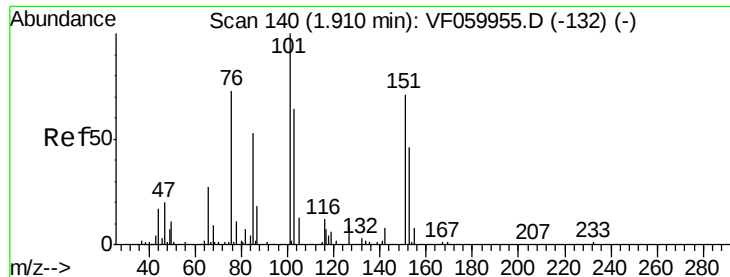
45 178.2 77.5 232.6



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

Instrument :

MSVOA_F

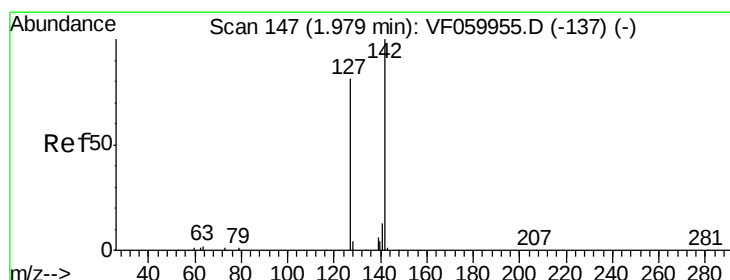
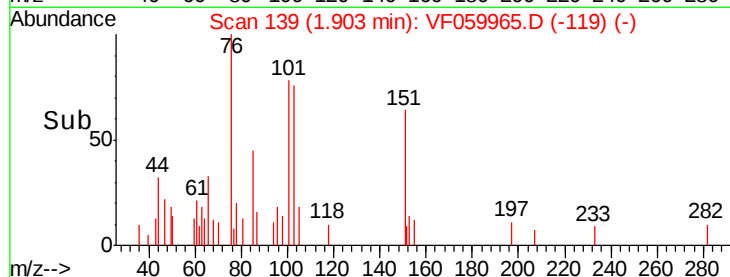
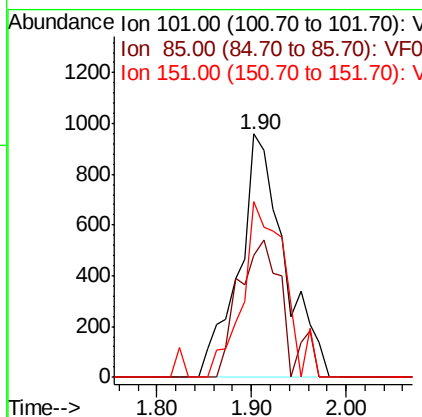
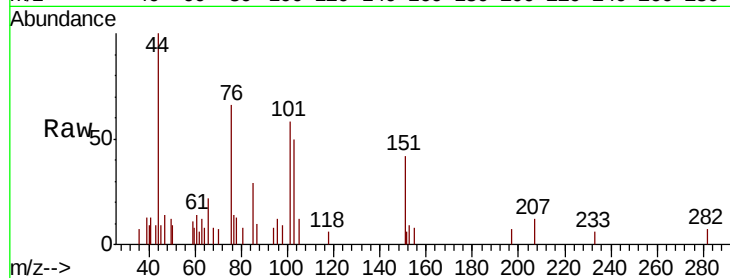
ClientSampleId :

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

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#10

Methyl Iodide

Concen: 2.52 ug/l

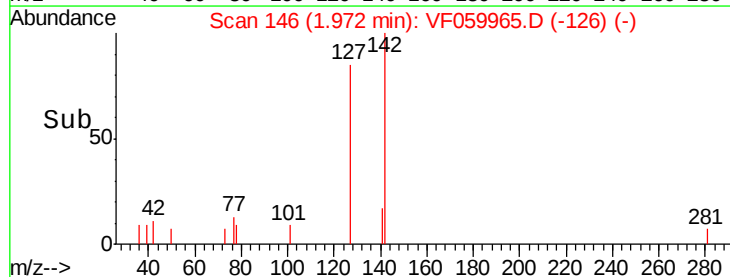
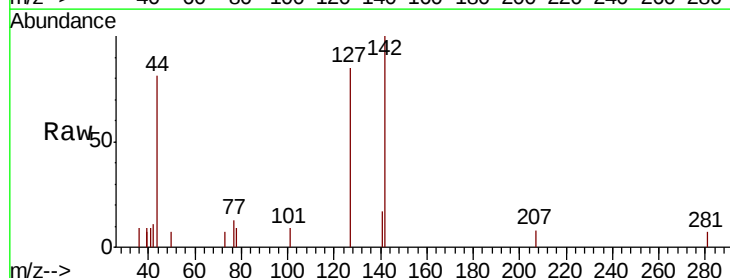
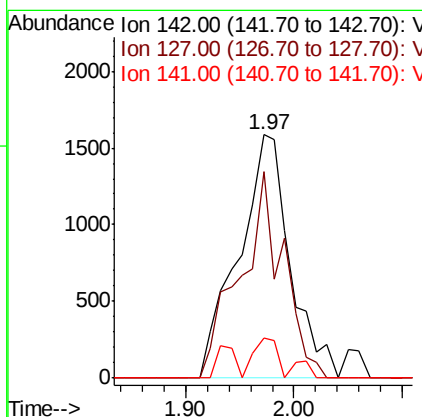
RT: 1.97 min Scan# 146

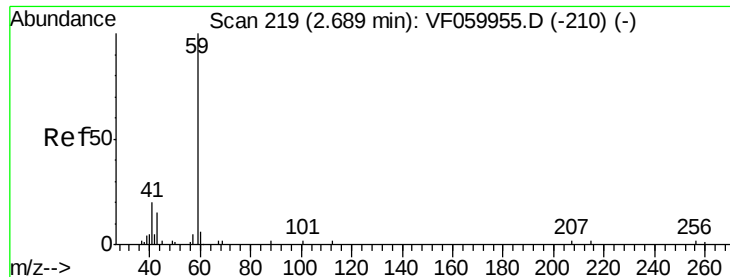
Delta R.T. -0.01 min

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#





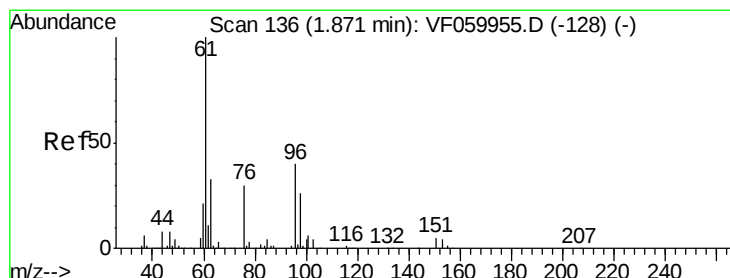
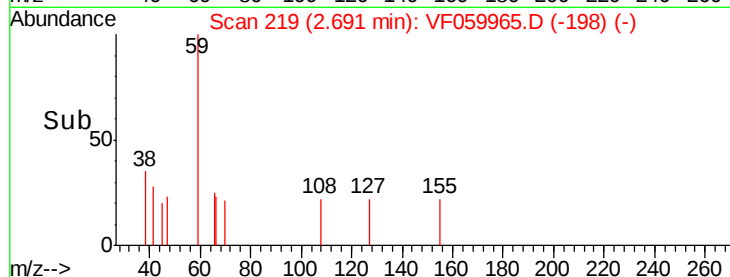
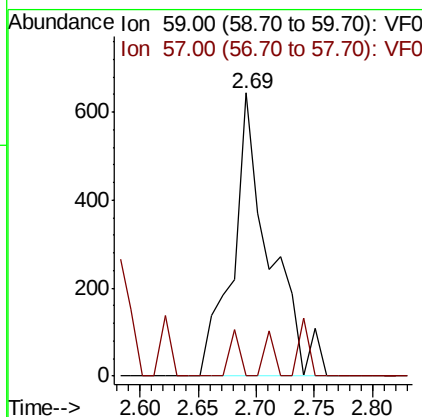
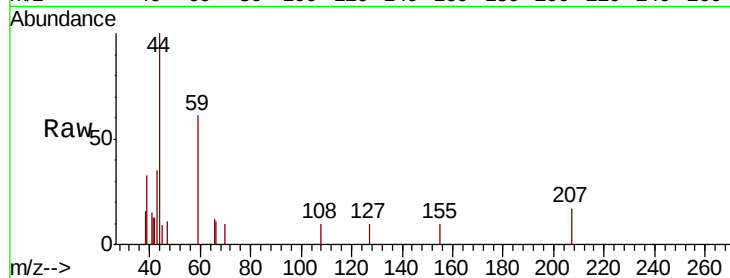
#11
Tert butyl alcohol
Concen: 16.10 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	12.0	18.0#

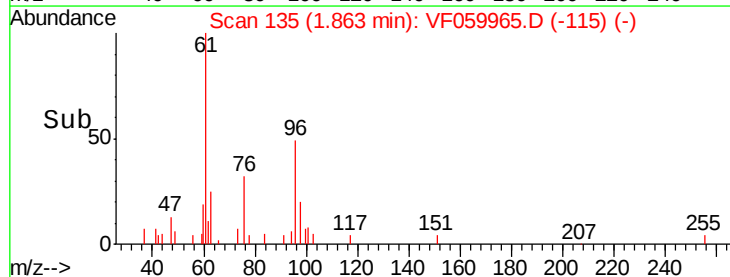
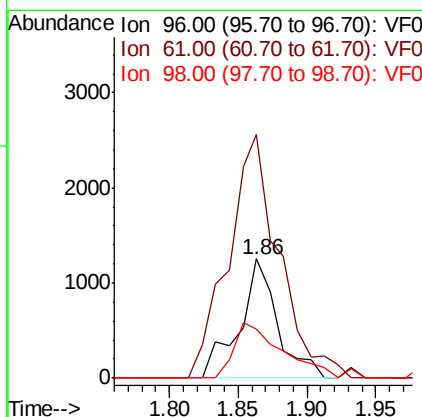
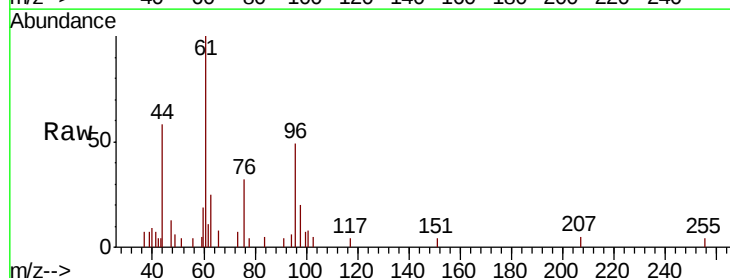
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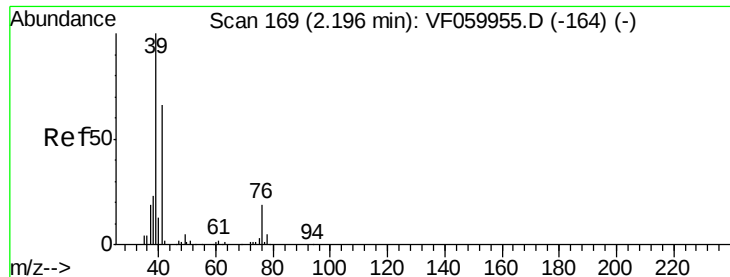
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#12
1,1-Dichloroethene
Concen: 2.44 ug/l
RT: 1.86 min Scan# 135
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	204.0	201.0	301.4
98	41.6	51.9	77.9#





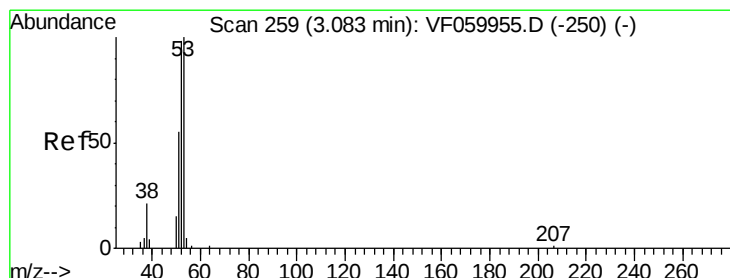
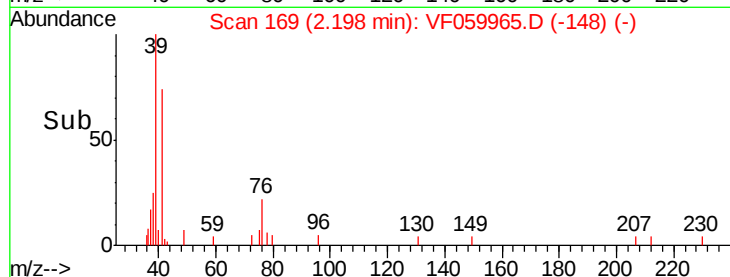
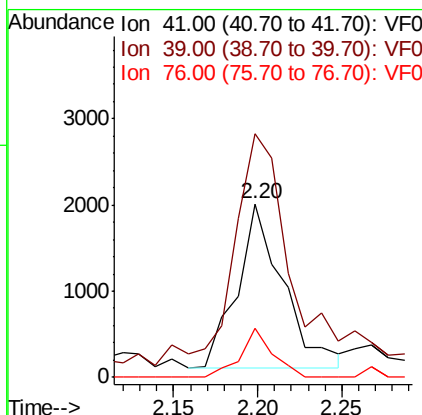
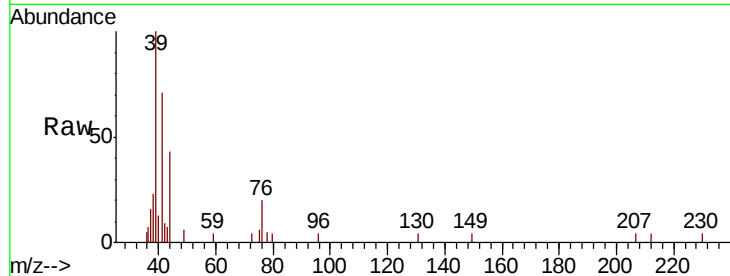
#14
Allvl chloride
Concen: 2.53 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	140.6	121.0	181.4
76	28.3	23.6	35.4

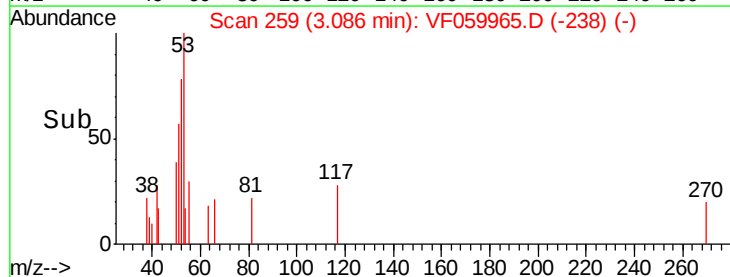
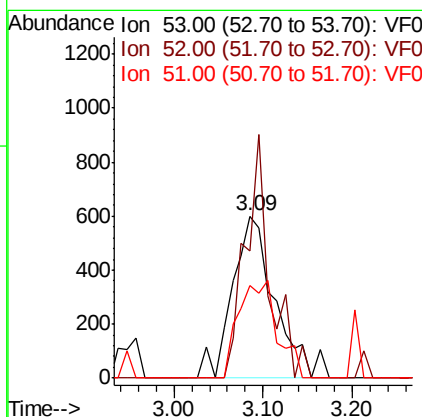
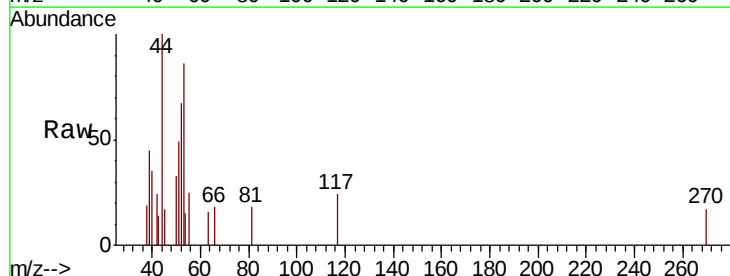
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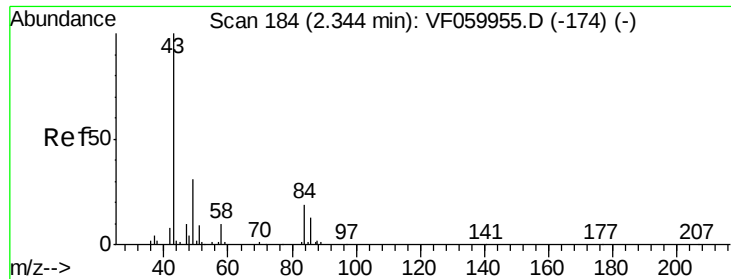
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#15
Acrylonitrile
Concen: 15.16 ug/l
RT: 3.09 min Scan# 259
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
53	100		
52	78.3	78.1	117.1
51	56.8	44.2	66.4





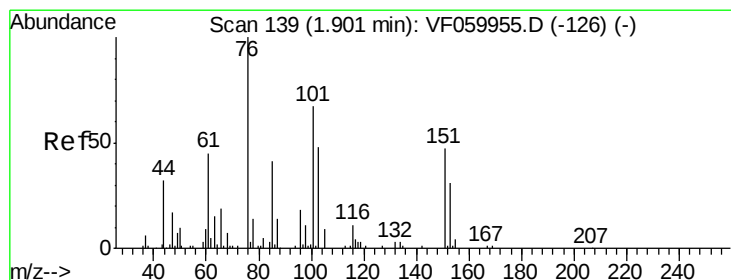
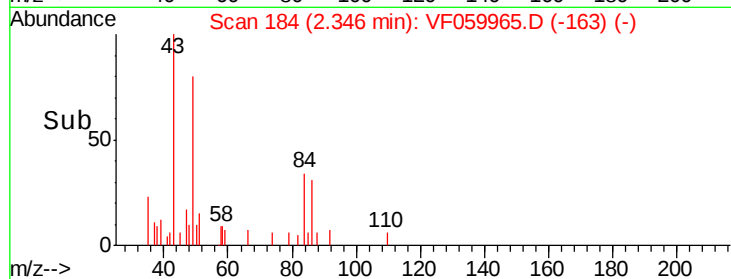
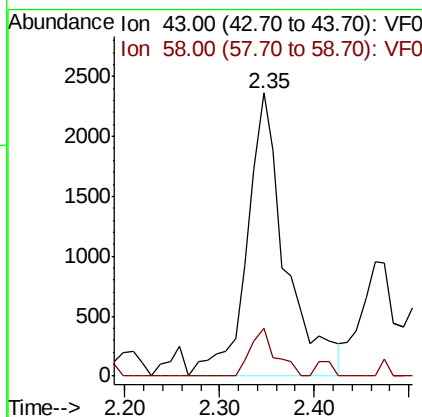
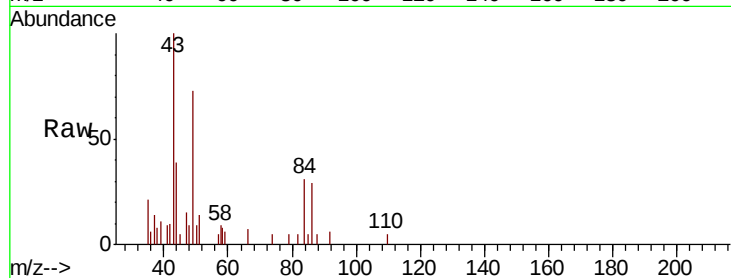
#16
Acetone
Concen: 15.33 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion: 43 Resp: 6676
Ion Ratio Lower Upper
43 100
58 16.9 8.1 12.1#

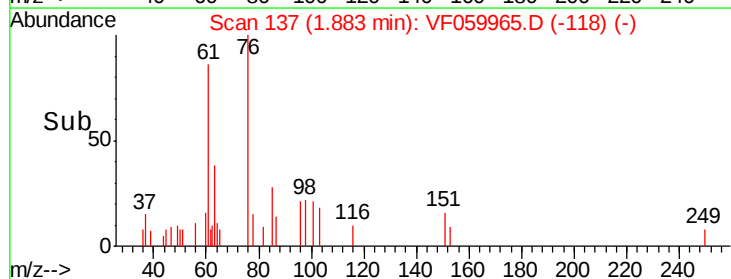
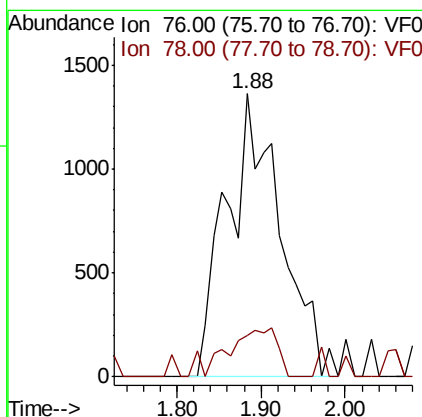
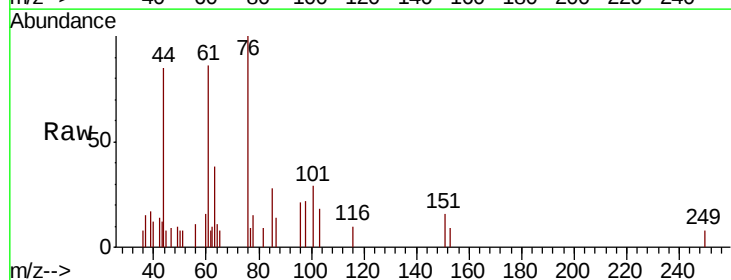
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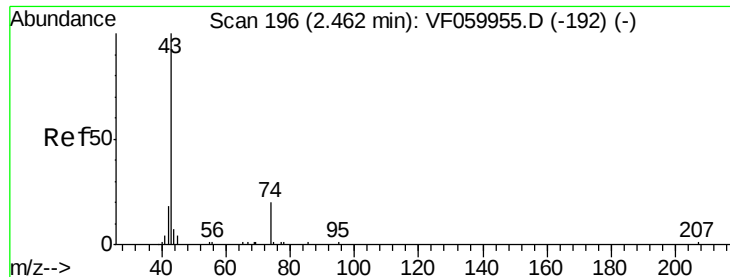
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#17
Carbon Disulfide
Concen: 2.40 ug/l
RT: 1.88 min Scan# 137
Delta R.T. -0.02 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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





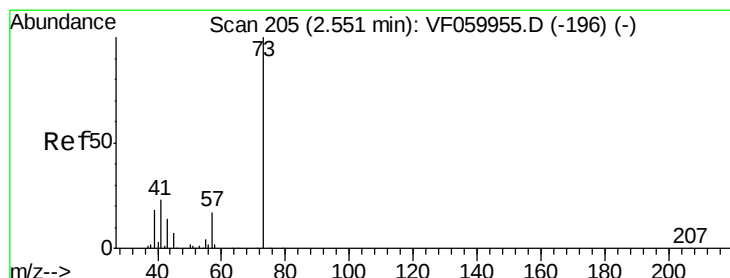
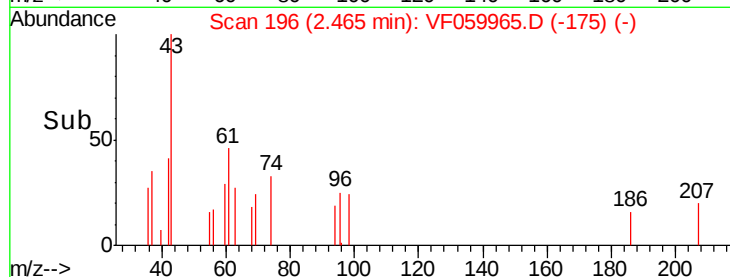
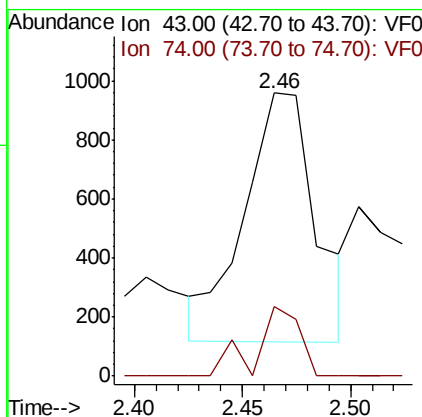
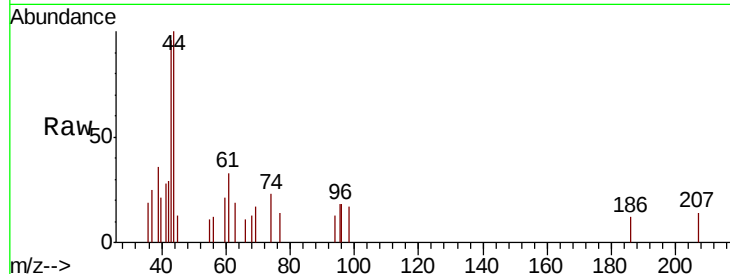
#18
Methvl Acetate
Concen: 3.18 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

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

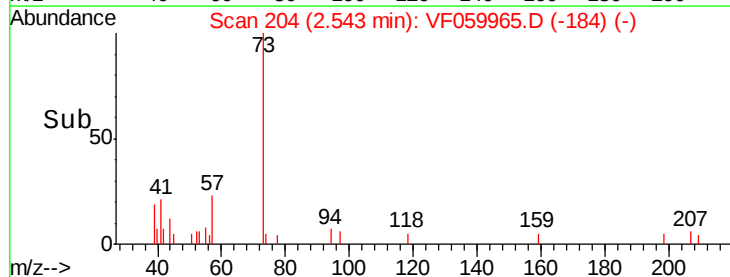
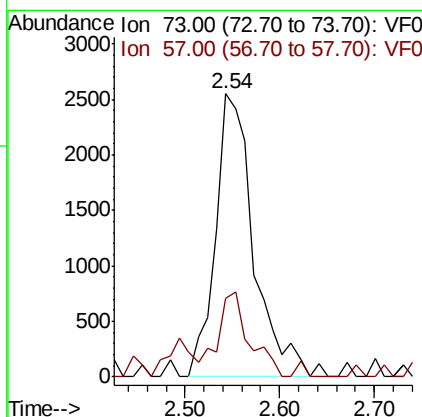
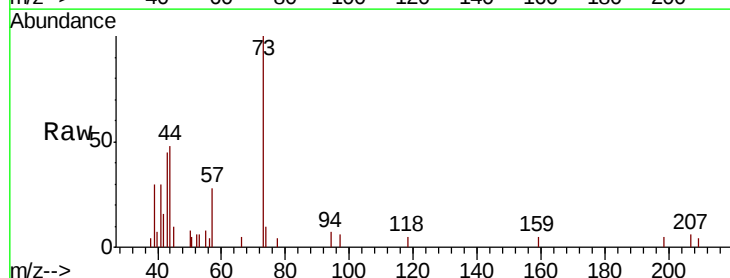
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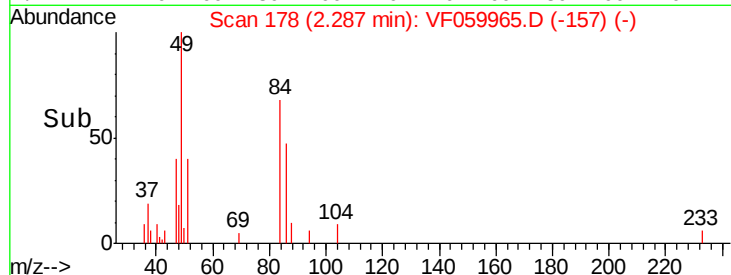
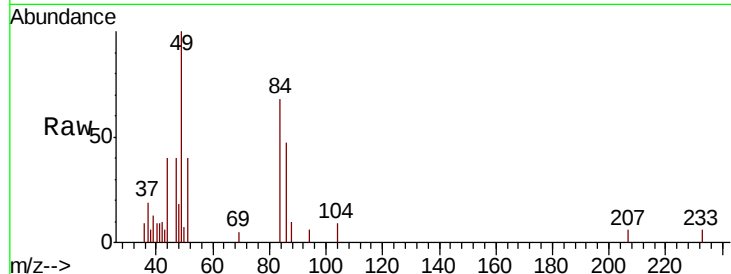
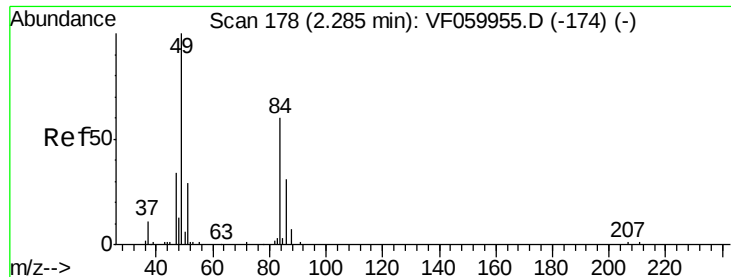
apatel
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#19
Methyl tert-butyl Ether
Concen: 2.51 ug/l
RT: 2.54 min Scan# 204
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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





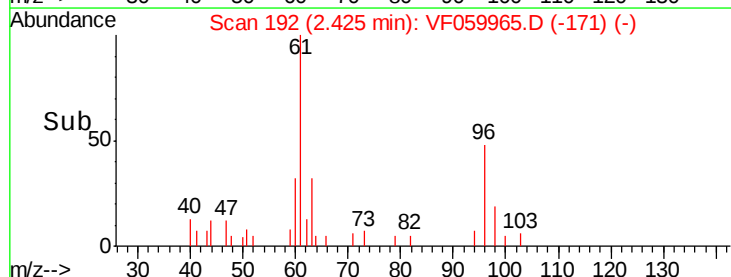
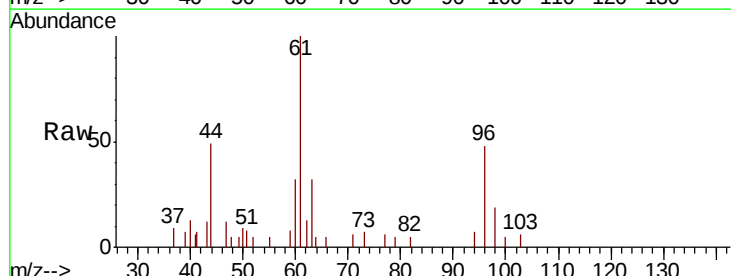
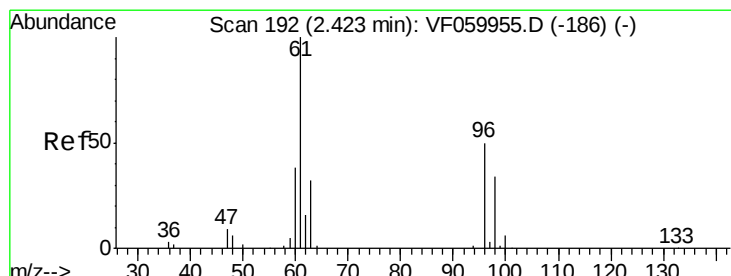
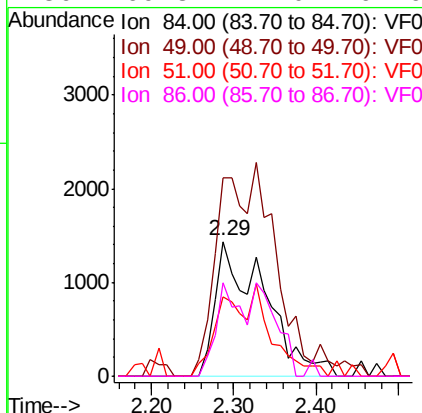
#20
Methvlene Chloride
Concen: 1.54 ug/l m
RT: 2.29 min Scan# 178
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tot 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

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

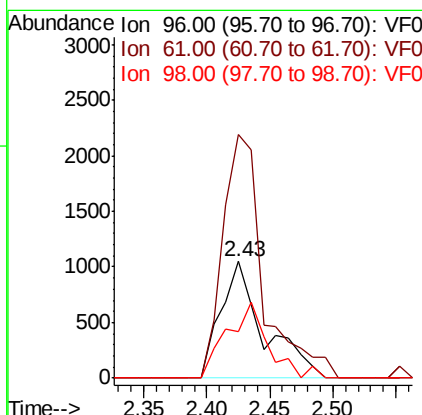
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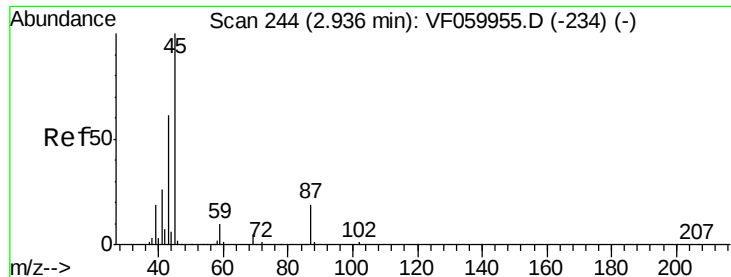
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#21
trans-1,2-Dichloroethene
Concen: 2.57 ug/l
RT: 2.43 min Scan# 192
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	208.5	159.5	239.3
98	40.2	53.8	80.6





#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

Instrument :

MSVOA_F

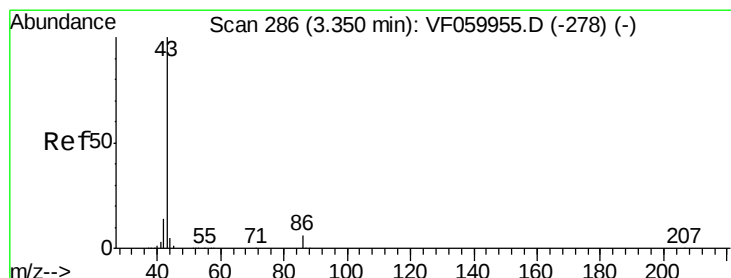
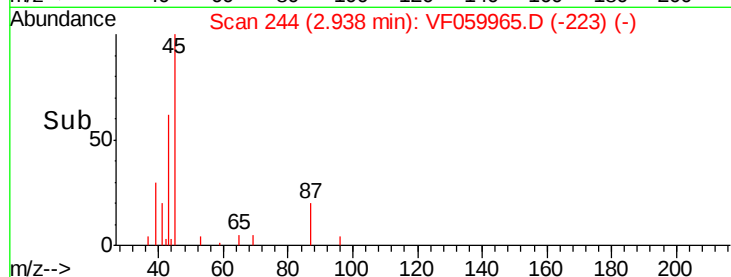
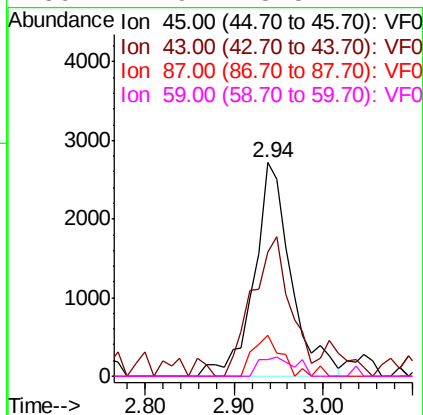
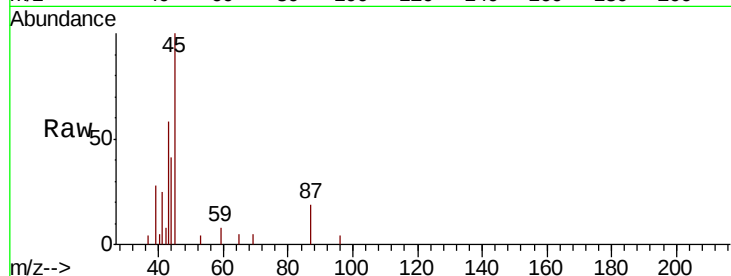
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot 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#

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#23

Vinyl Acetate

Concen: 9.81 ug/l

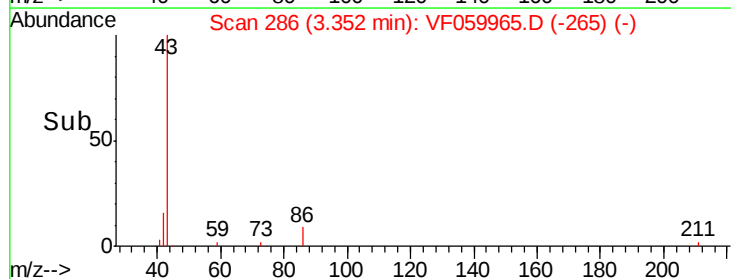
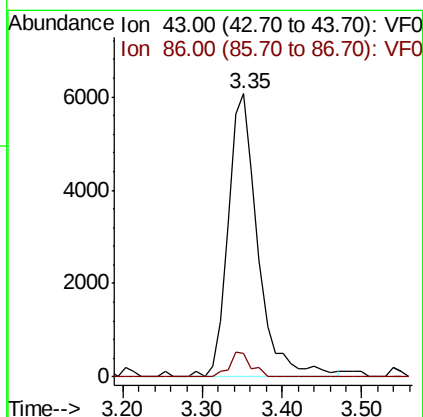
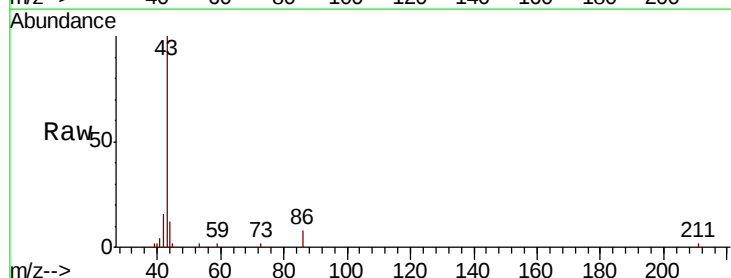
RT: 3.35 min Scan# 286

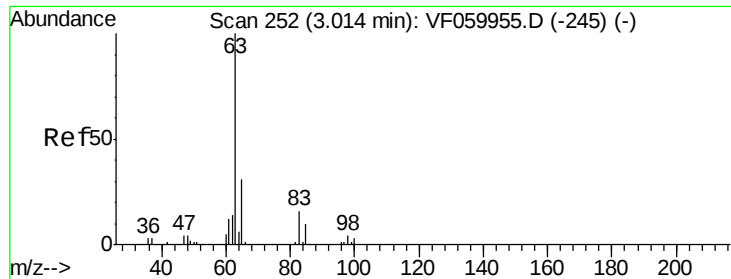
Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion:	43	Resp:	15848
Ion Ratio		Lower	Upper
43	100		
86	8.3	4.9	7.3#





#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

Instrument :

MSVOA_F

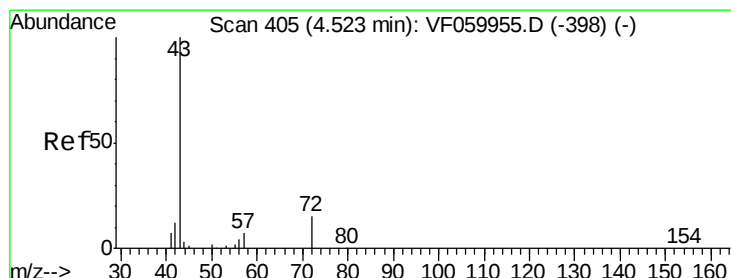
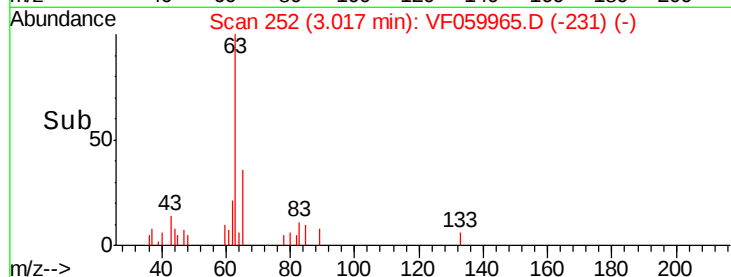
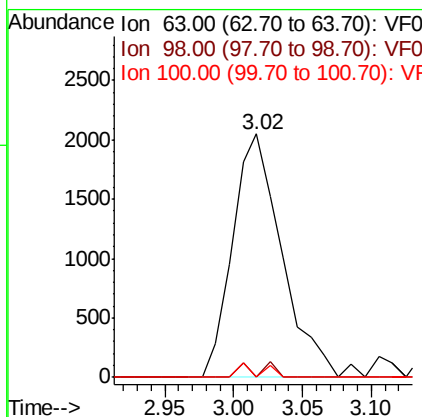
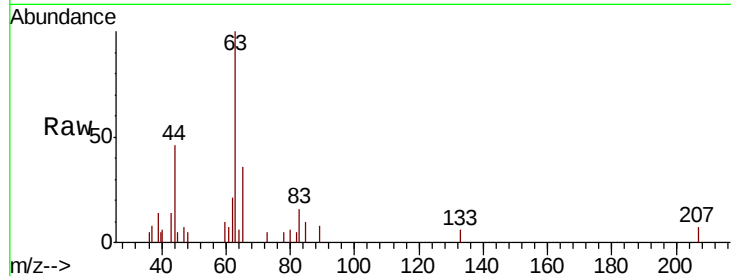
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	63	Resp:	5079
Ion Ratio	Lower	Upper	
63	100		
98	0.0	2.1	6.2#
100	0.0	1.7	5.1#

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#25

2-Butanone

Concen: 12.10 ug/l

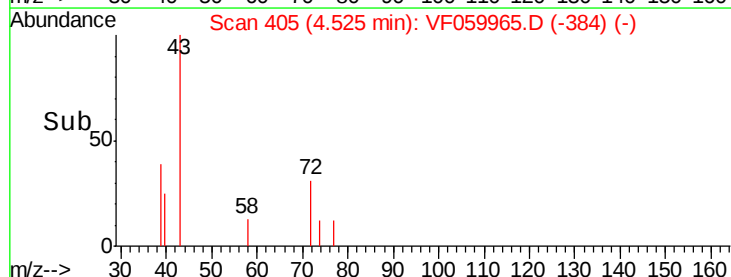
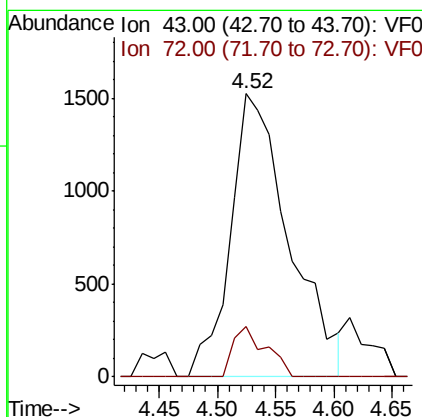
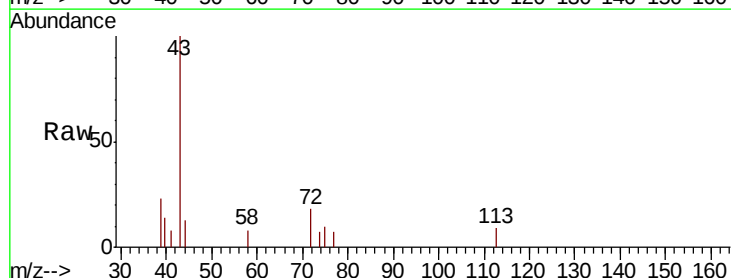
RT: 4.52 min Scan# 405

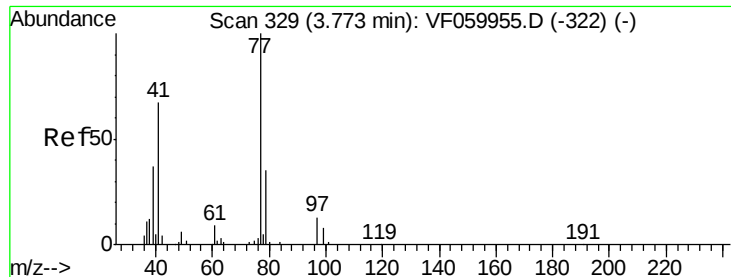
Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion:	43	Resp:	5328
Ion Ratio	Lower	Upper	
43	100		
72	17.8	14.6	22.0





#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

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 77 Resp: 2888

Ion Ratio Lower Upper

77 100

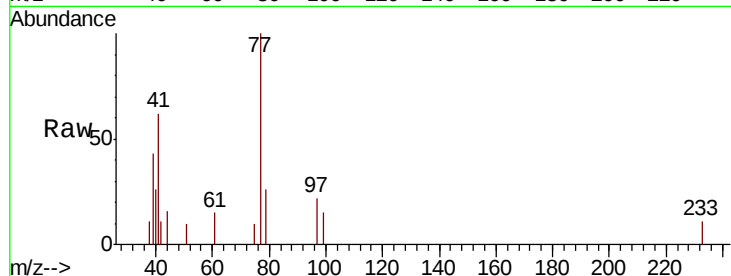
97 22.2 6.6 19.7#

Manual Integrations

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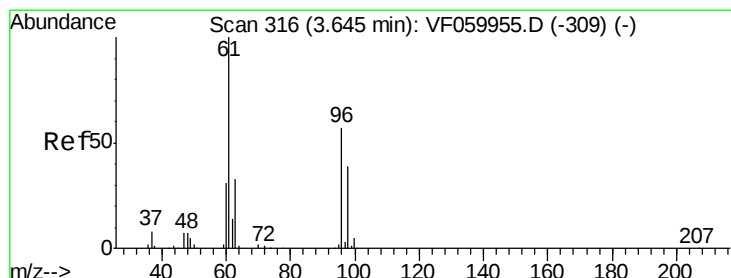
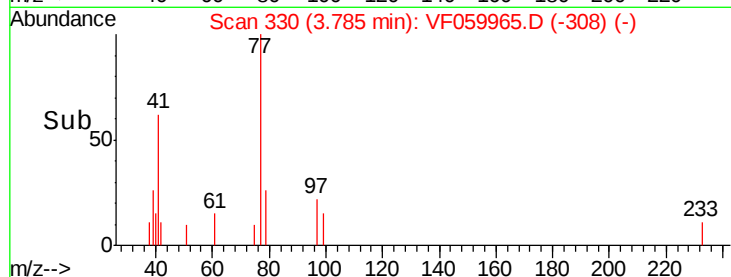
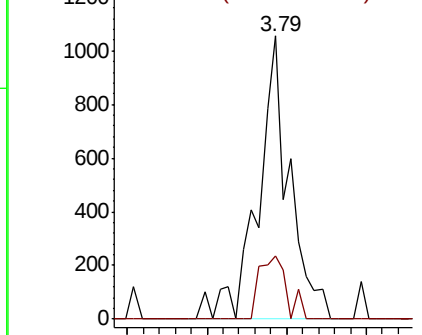
apatel

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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

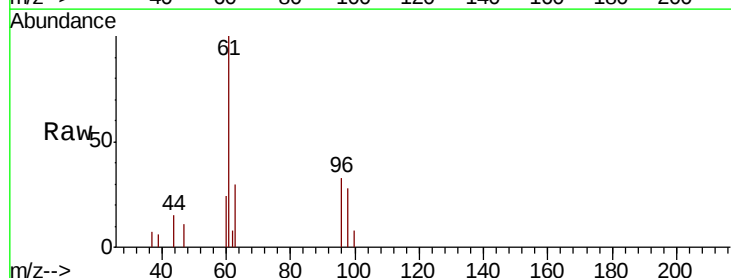
Tgt Ion: 96 Resp: 2063

Ion Ratio Lower Upper

96 100

61 304.7 0.0 349.4

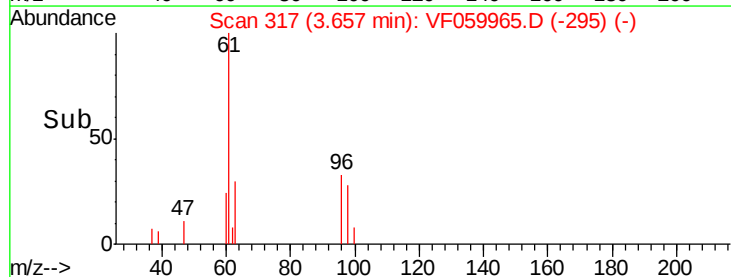
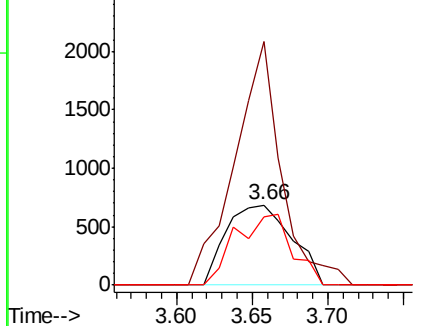
98 84.8 0.0 134.6

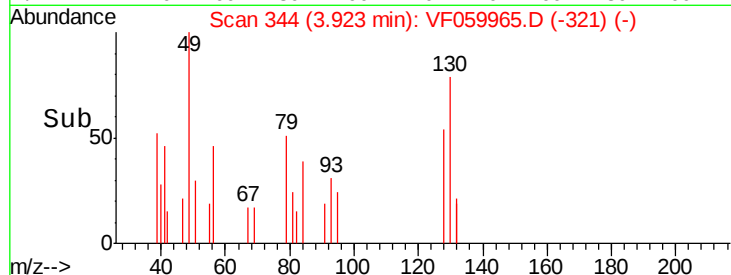
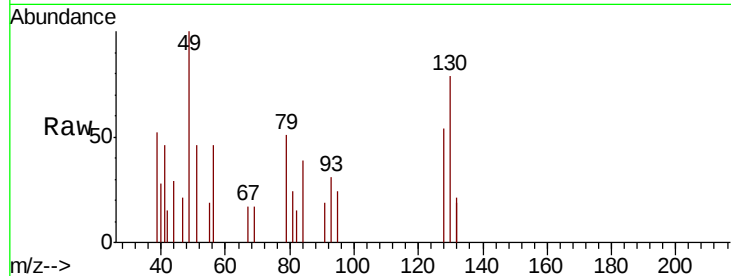
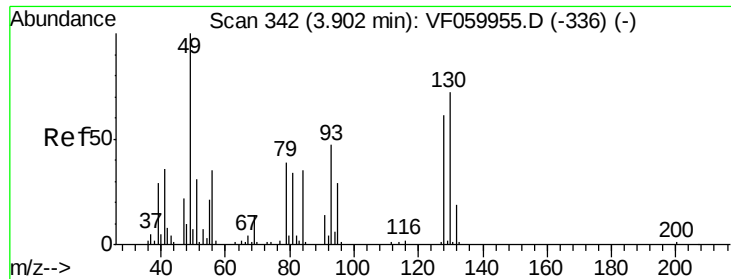


Abundance Ion 96.00 (95.70 to 96.70): VF0

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

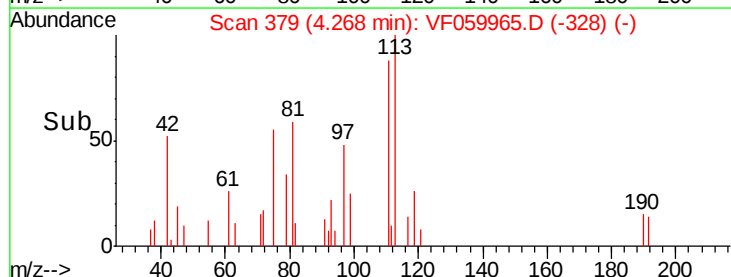
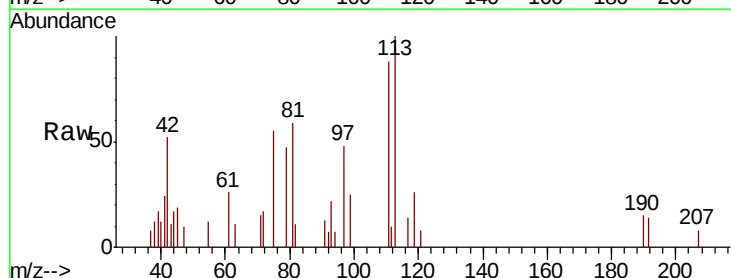
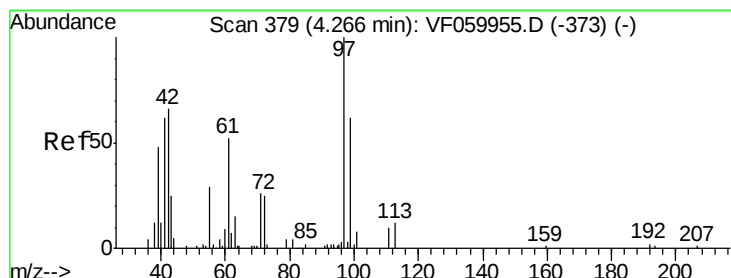
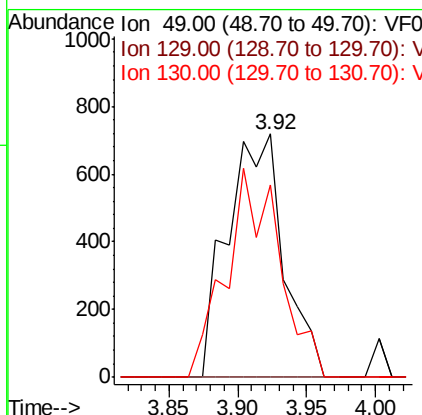
Acq: 15 Aug 2018 1:37

Tot Ion:	49	Resp:	2050
Ion Ratio	Lower	Upper	
49	100		
129	0.0	0.0	4.2
130	79.0	58.1	87.1

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

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#29

Tetrahydrofuran

Concen: 17.70 ug/l

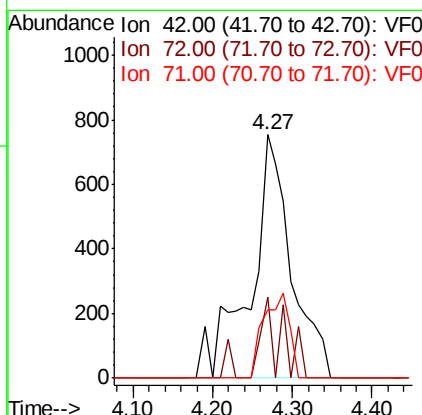
RT: 4.27 min Scan# 379

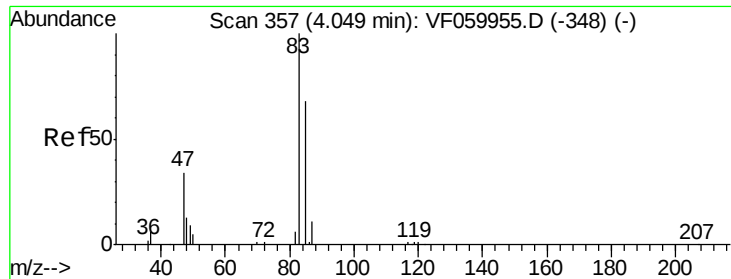
Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion:	42	Resp:	2677
Ion Ratio	Lower	Upper	
42	100		
72	8.0	27.7	41.5#
71	21.9	28.2	42.4#





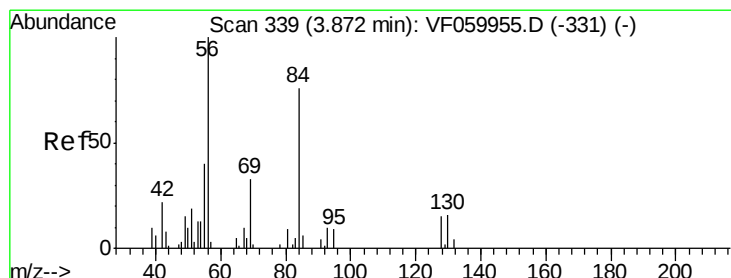
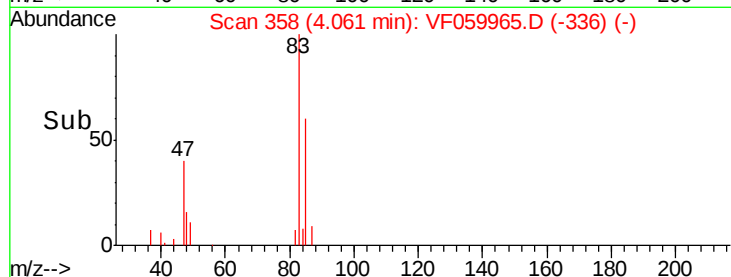
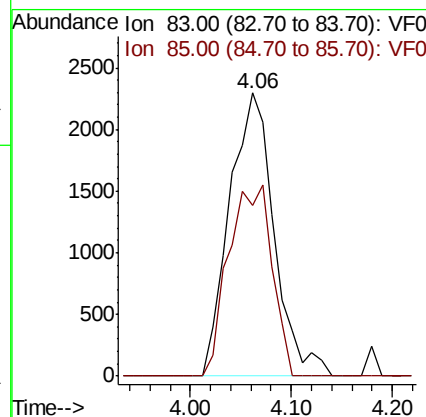
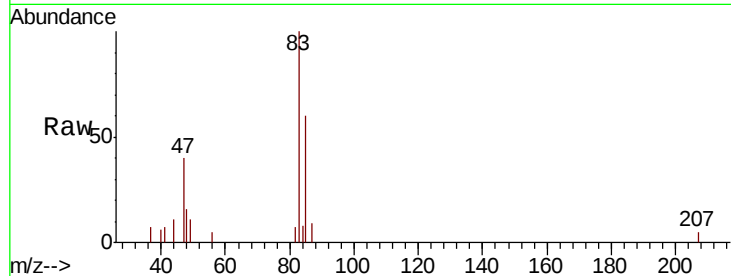
#30
Chloroform
Concen: 2.24 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	83	Resp	7085
Ion Ratio	100	Lower	Upper
83	100		
85	60.3	54.4	81.6

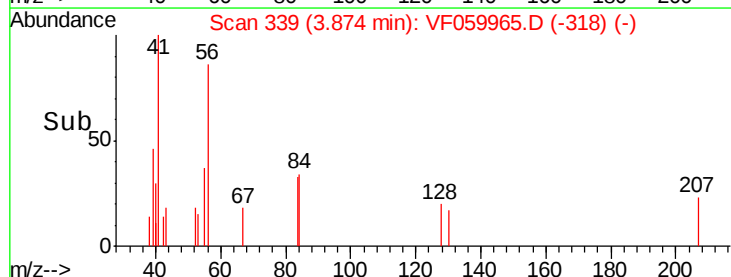
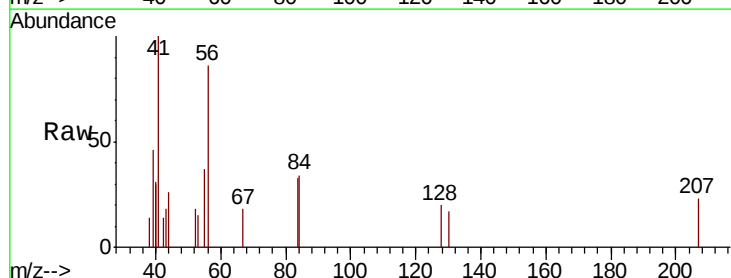
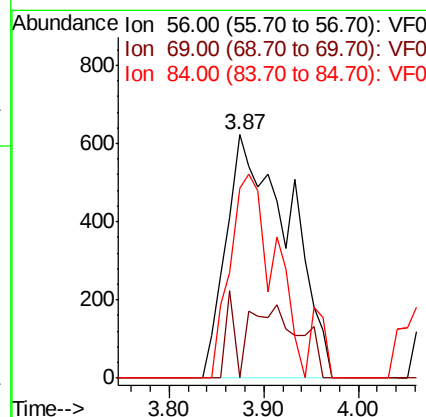
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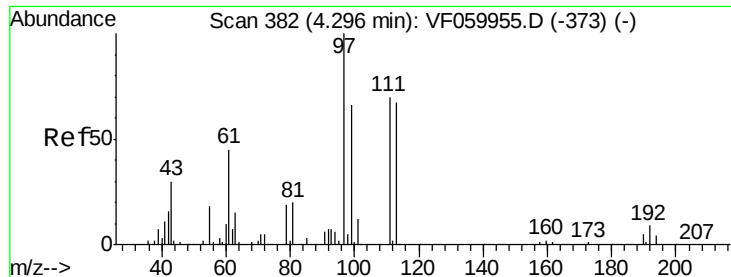
apatel
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#31
Cyclohexane
Concen: 2.50 ug/l
RT: 3.87 min Scan# 339
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	56	Resp	2871
Ion Ratio	100	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

Instrument :

MSVOA_F

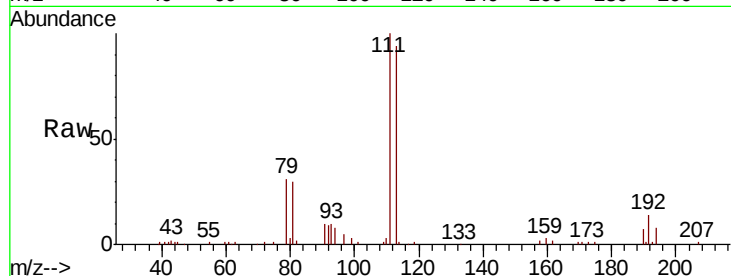
ClientSampleId :

MDL-SOIL-03-QT3-2018

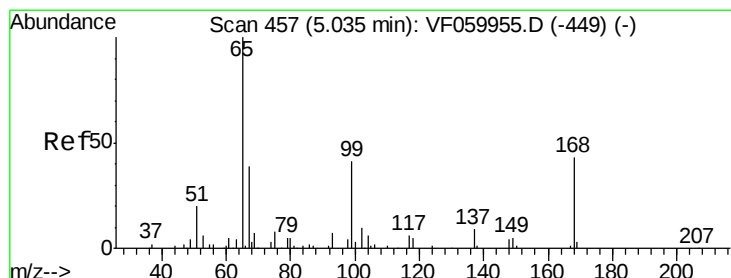
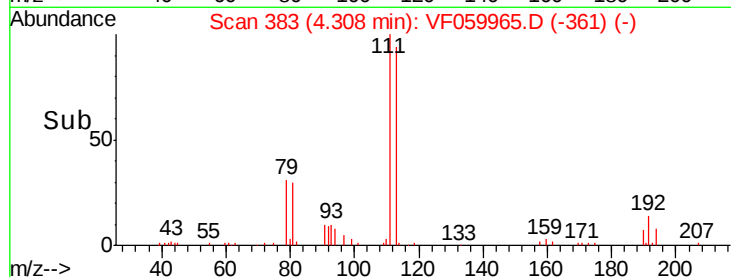
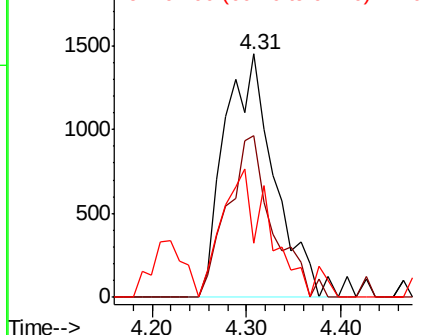
Tot Ion:	97	Resp:	5331
Ion Ratio	Lower	Upper	
97	100		
99	66.2	53.0	79.4
61	22.1	36.6	55.0#

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Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 51.43 ug/l

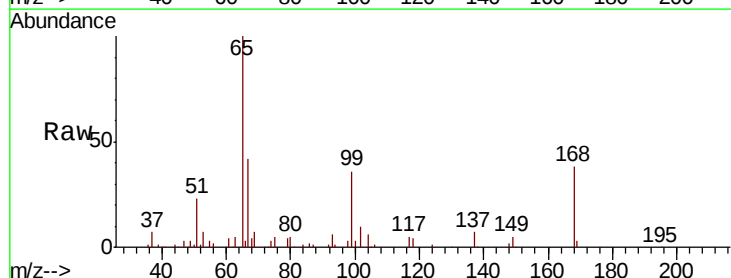
RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

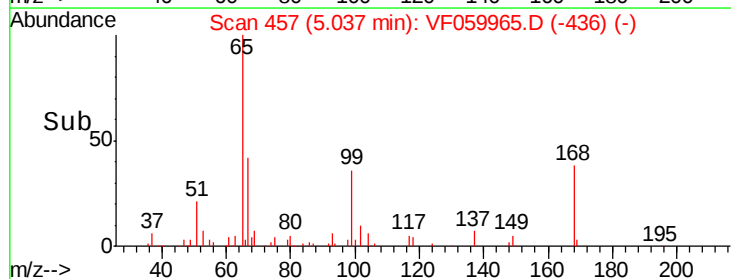
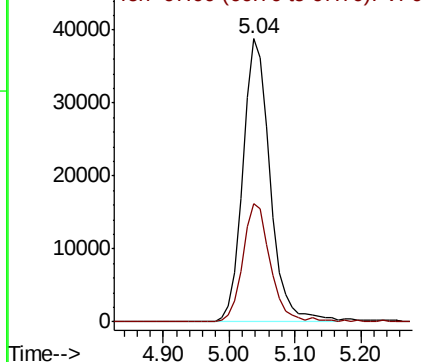
Lab File: VF059965.D

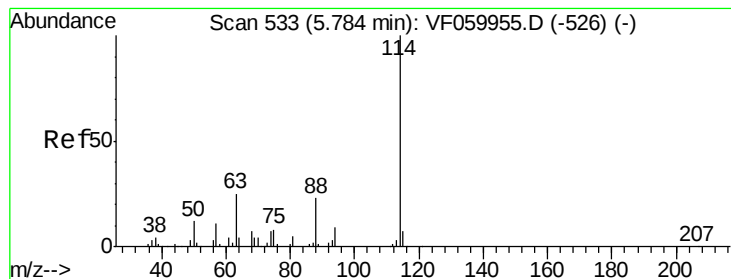
Acq: 15 Aug 2018 1:37

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



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Instrument :

MSVOA_F

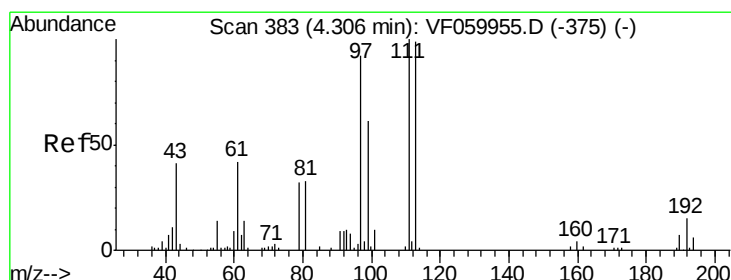
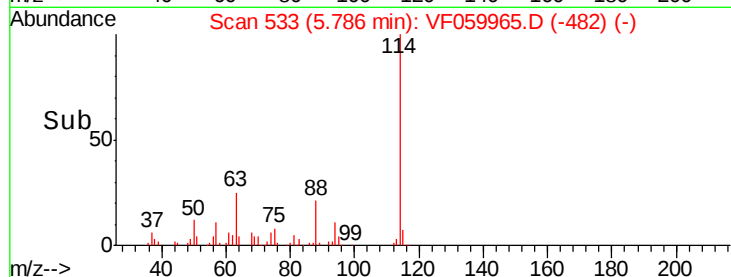
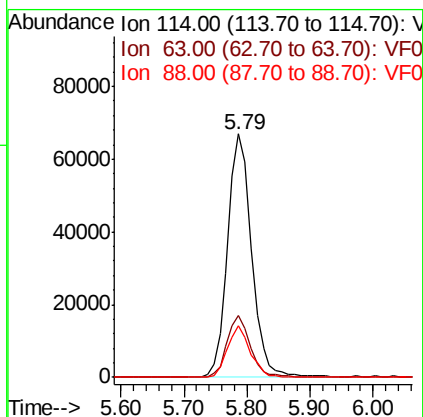
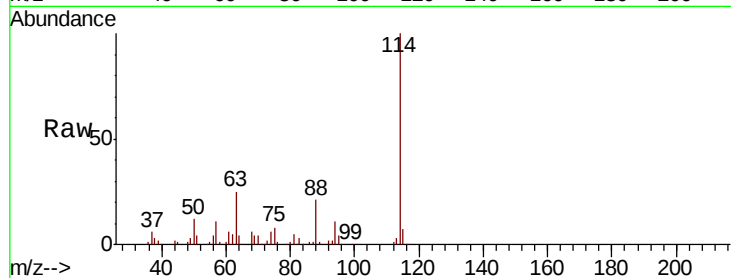
ClientSampleId :

MDL-SOIL-03-QT3-2018

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

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#35

Dibromofluoromethane

Concen: 50.43 ug/l

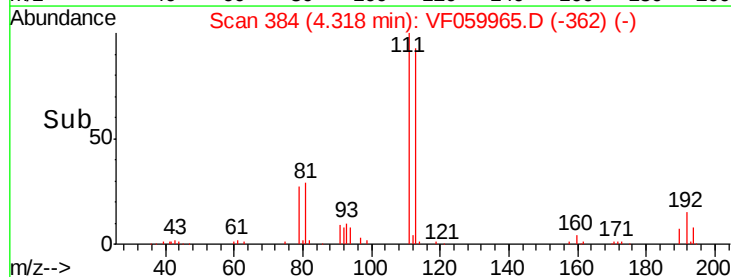
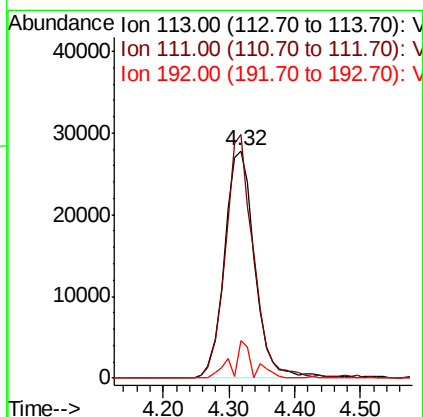
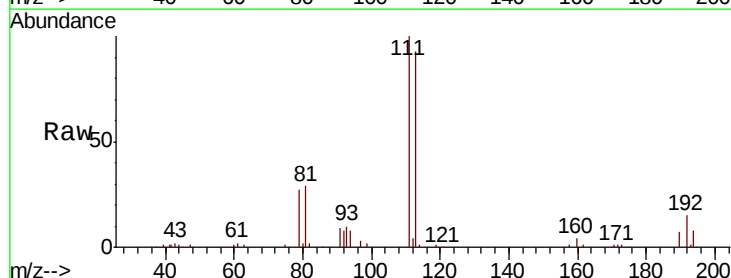
RT: 4.32 min Scan# 384

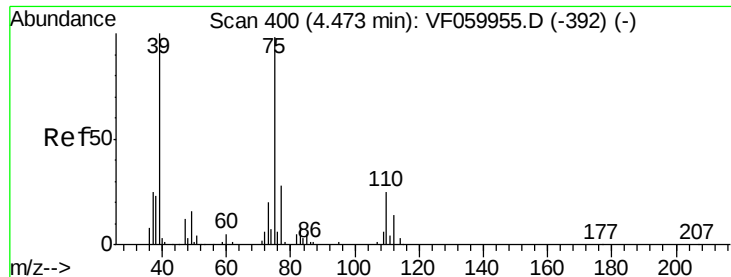
Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	89053		
111	107.2		80.6	121.0
192	16.5		11.7	17.5





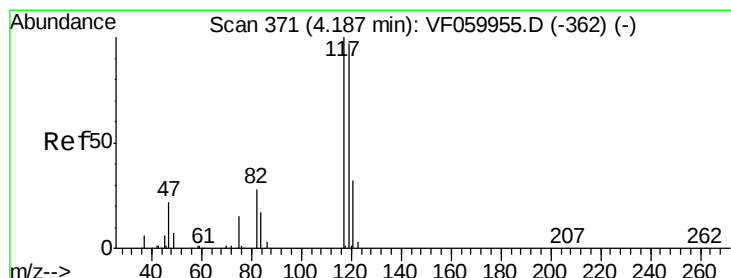
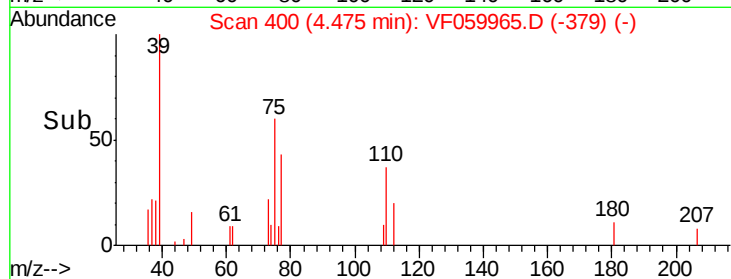
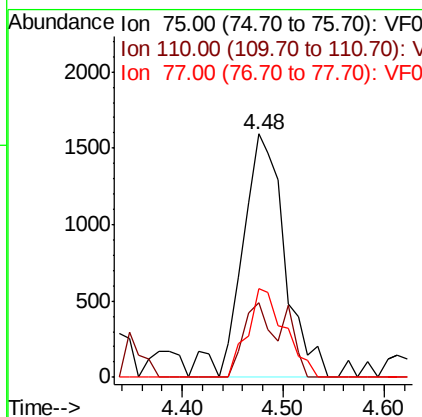
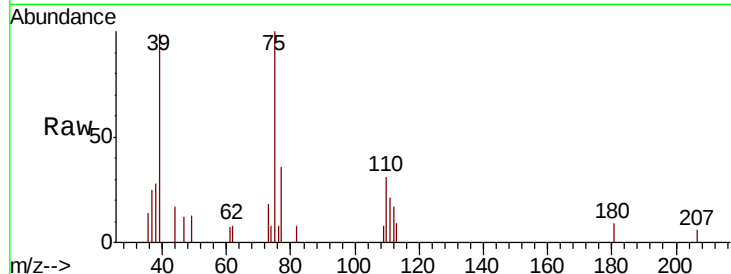
#36
 1,1-Dichloropropene
 Concen: 2.39 ug/l
 RT: 4.48 min Scan# 400
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
75	100		
110	30.9	12.6	37.8
77	36.2	22.7	34.1#

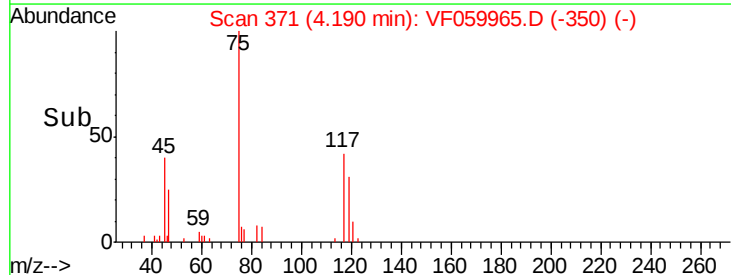
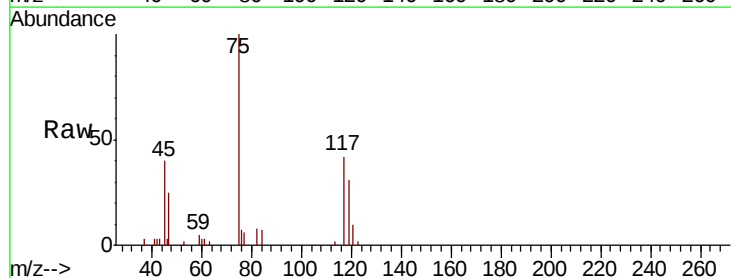
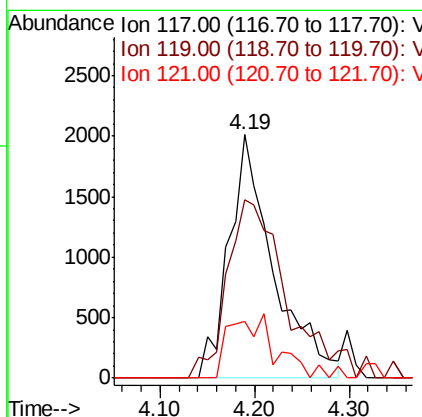
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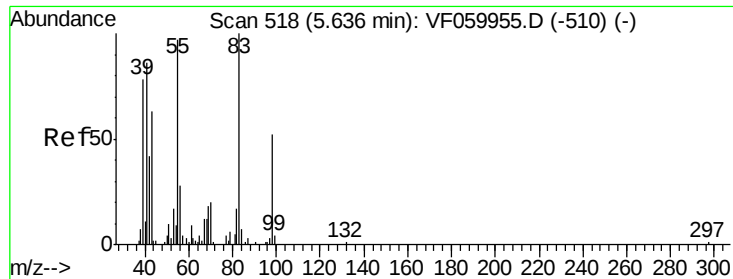
apatel
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#38
 Carbon Tetrachloride
 Concen: 2.03 ug/l
 RT: 4.19 min Scan# 371
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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





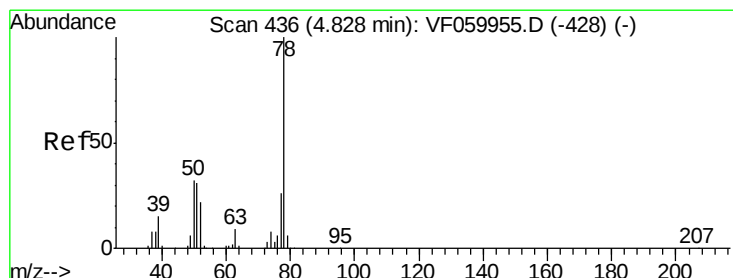
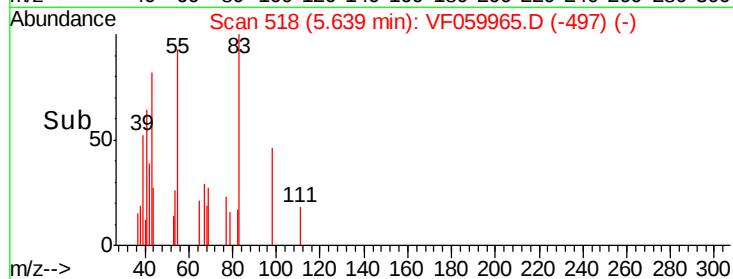
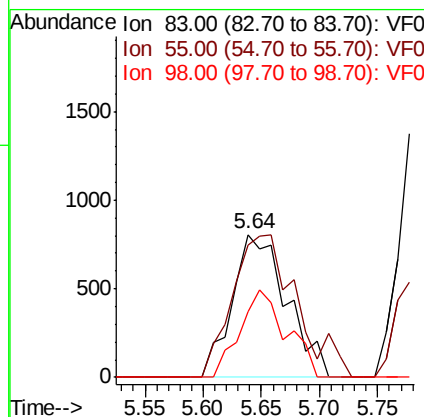
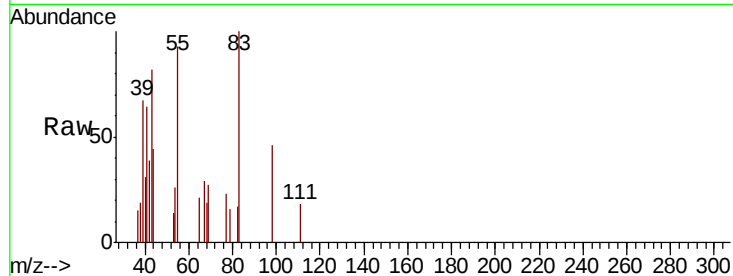
#39
Methvlcvclohexane
Concen: 1.84 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

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

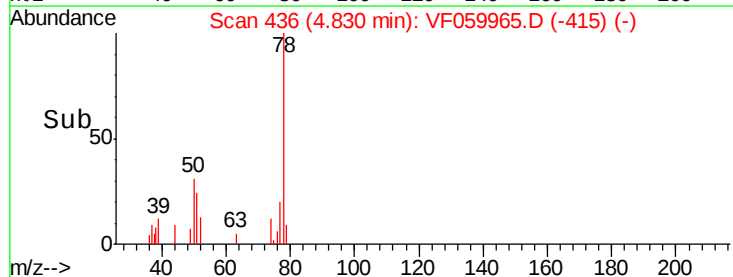
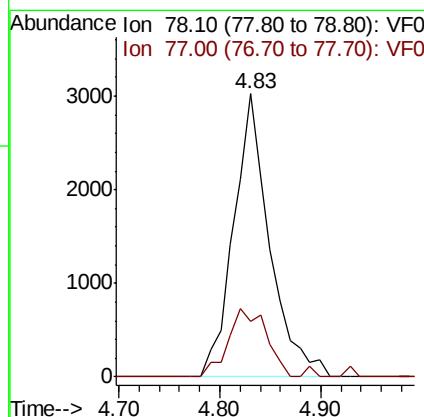
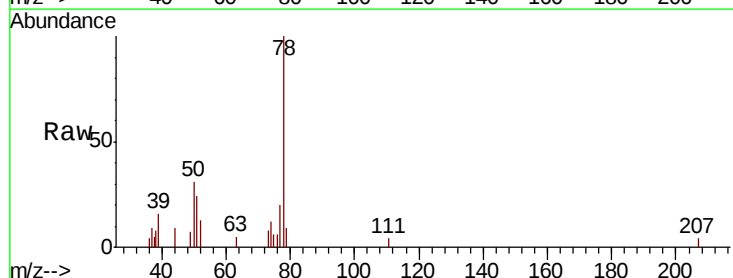
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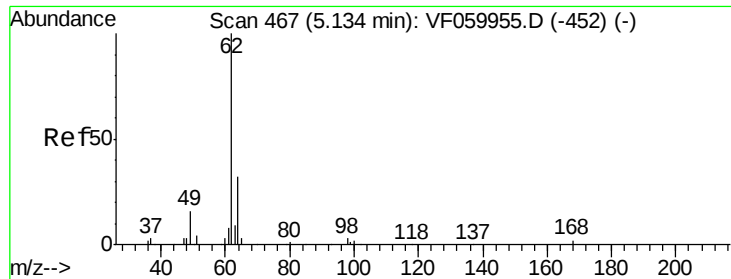
apatel
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#40
Benzene
Concen: 2.26 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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





#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

Instrument :

MSVOA_F

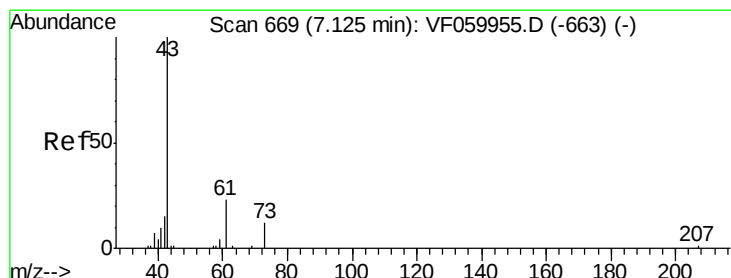
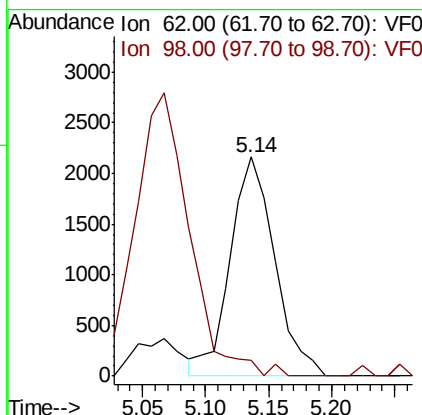
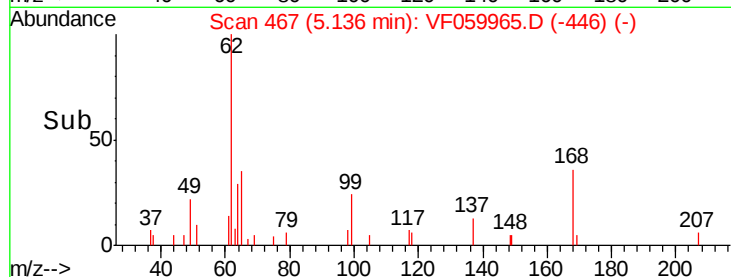
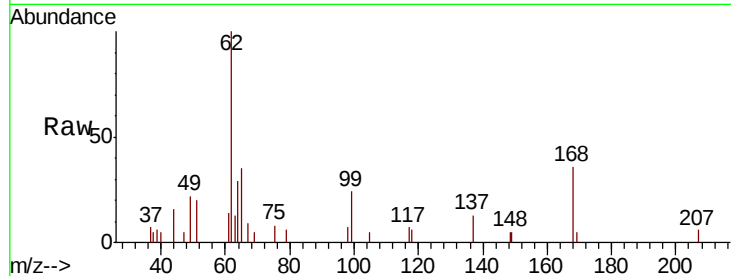
ClientSampleId :

MDL-SOIL-03-QT3-2018

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

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#43

Isopropyl Acetate

Concen: 2.62 ug/l

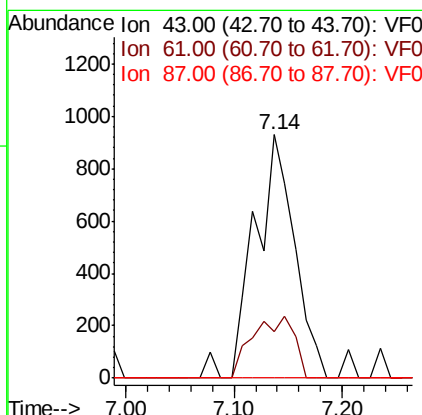
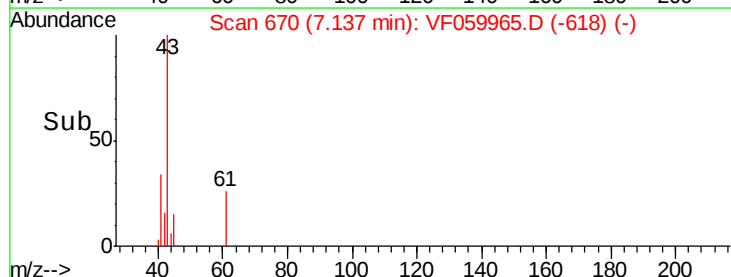
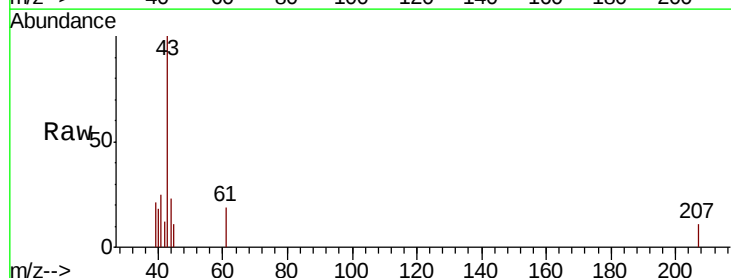
RT: 7.14 min Scan# 670

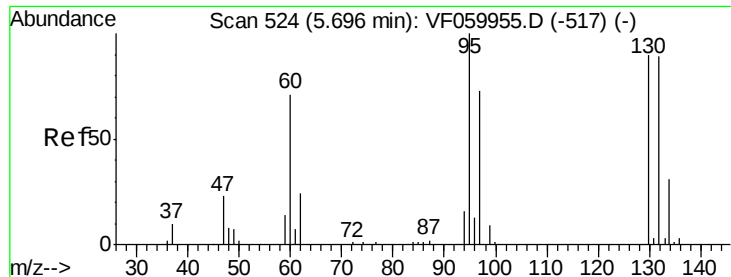
Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

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





#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

Instrument :

MSVOA_F

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:130 Resp: 2795

Ion Ratio Lower Upper

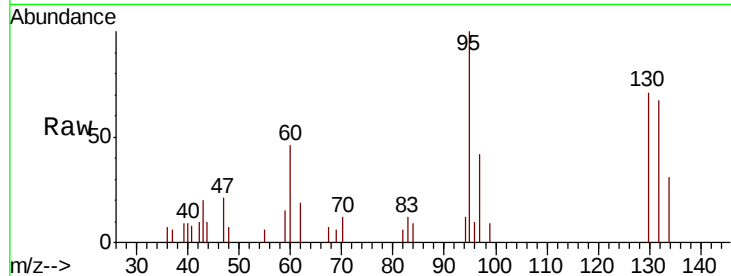
130 100

95 140.2 0.0 222.0

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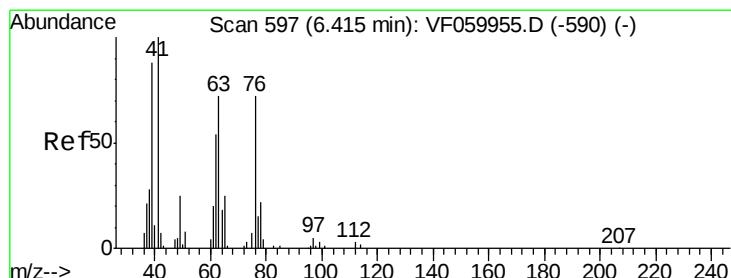
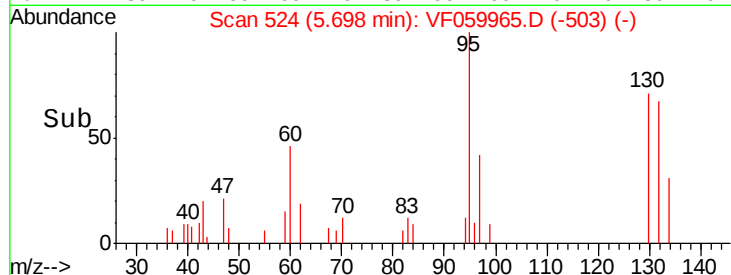
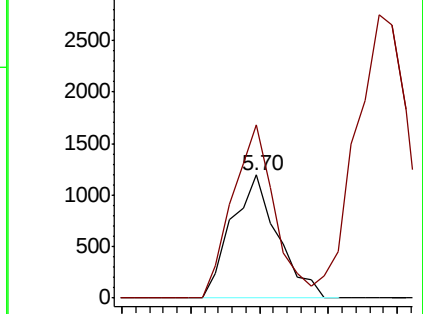
apatel

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Abundance Ion 129.90 (129.60 to 130.60): VF0

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

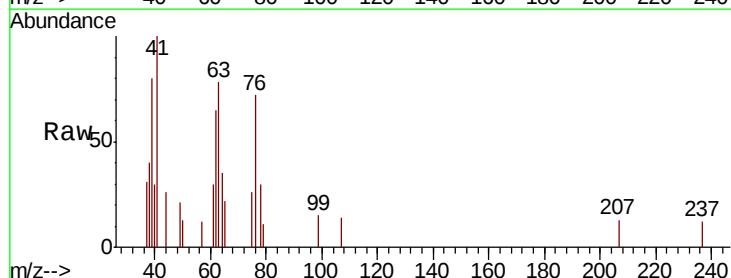
Acq: 15 Aug 2018 1:37

Tgt Ion: 63 Resp: 2293

Ion Ratio Lower Upper

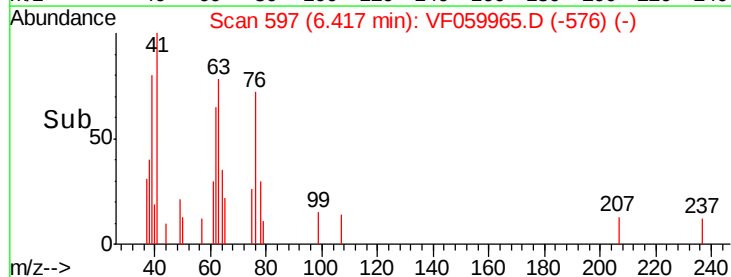
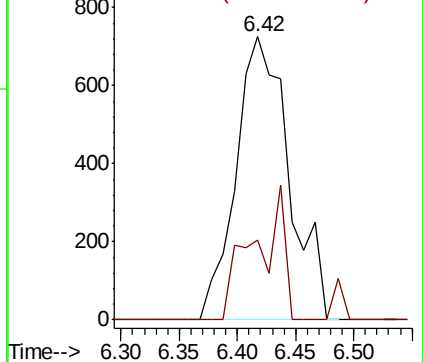
63 100

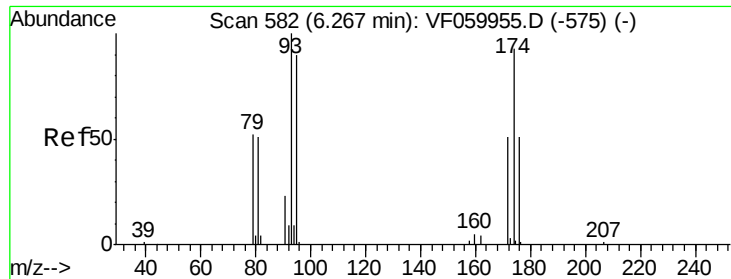
65 28.3 27.8 41.6



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





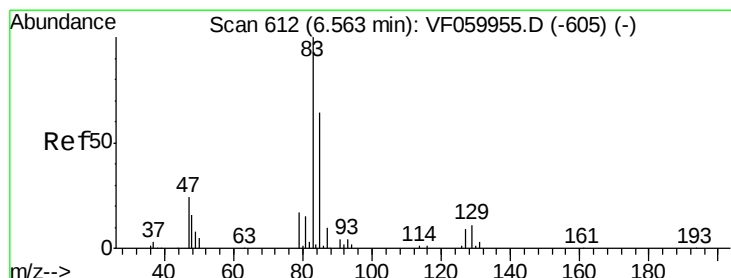
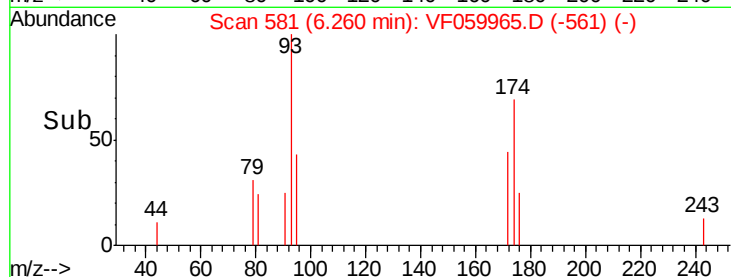
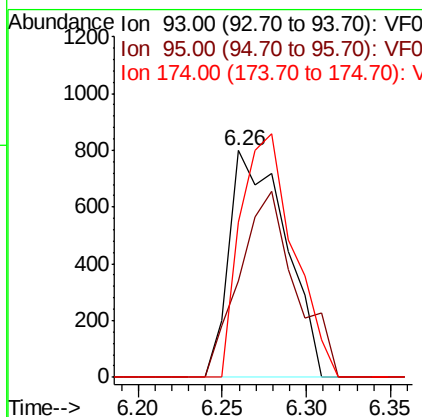
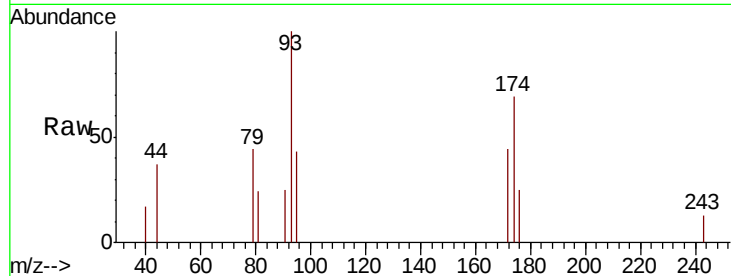
#46
Dibromomethane
Concen: 2.14 ug/l
RT: 6.26 min Scan# 581
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
93	100		
95	42.6	72.4	108.6#
174	68.7	75.9	113.9#

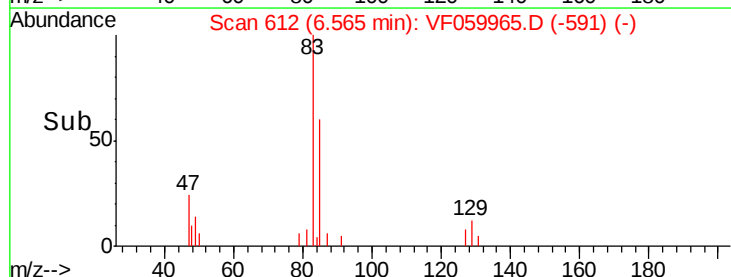
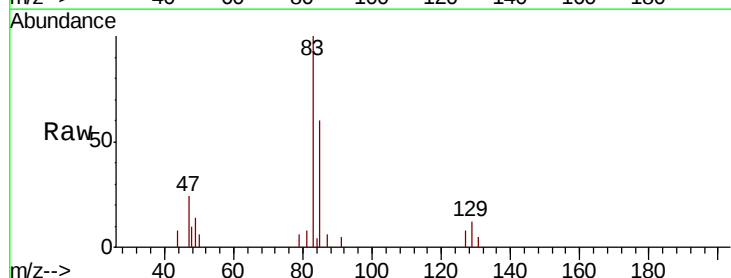
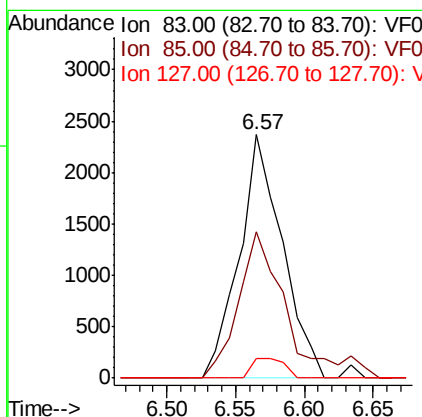
Manual Integrations
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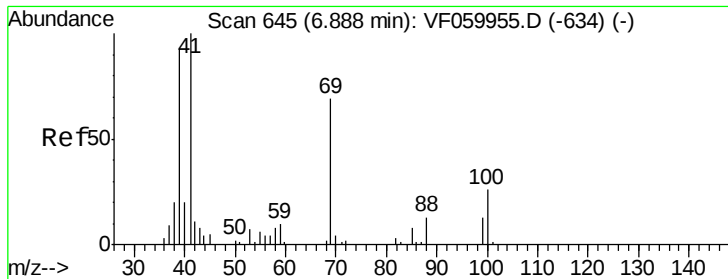
apatel
8/16/2018 12:19:48 PM



#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

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.1	51.5	77.3
127	8.3	7.5	11.3





#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

Instrument :

MSVOA_F

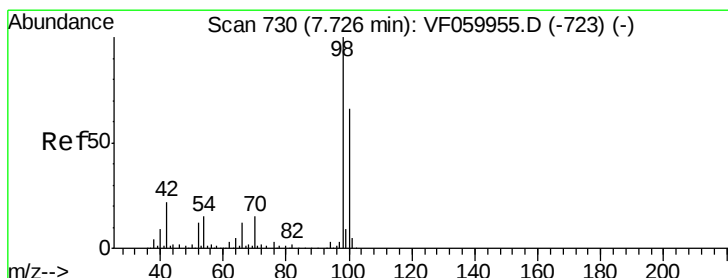
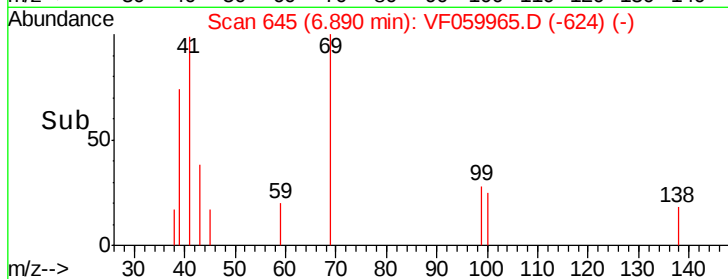
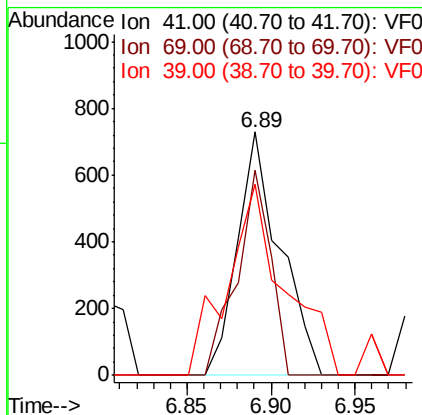
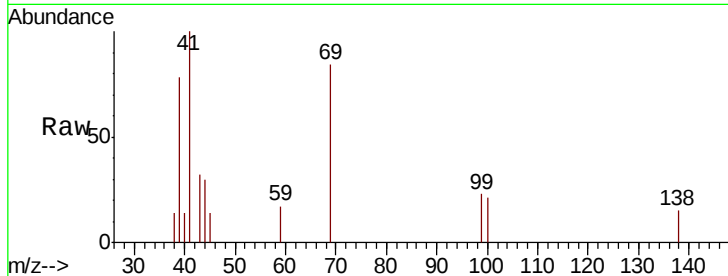
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
41	100		
69	84.4	54.8	82.2
39	78.3	75.1	112.7

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#50

Toluene-d8

Concen: 49.70 ug/l

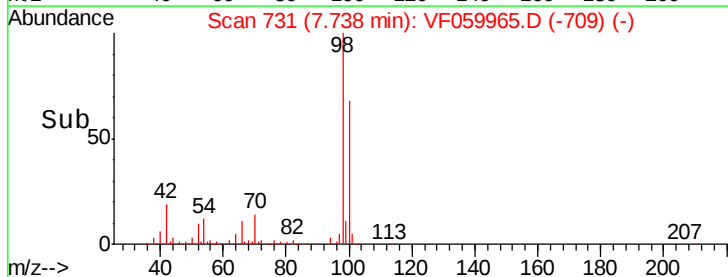
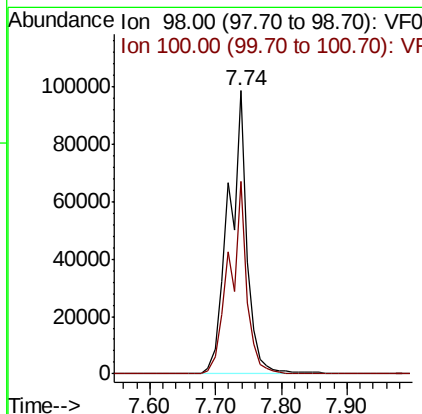
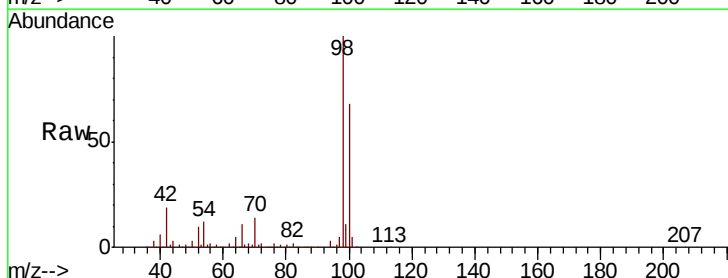
RT: 7.74 min Scan# 731

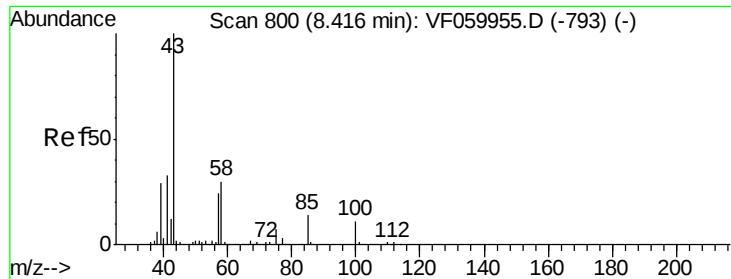
Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.2	52.9	79.3





#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

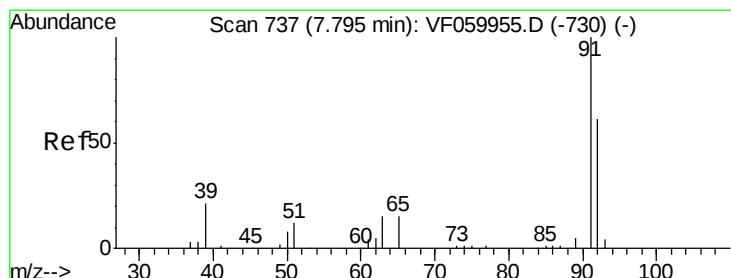
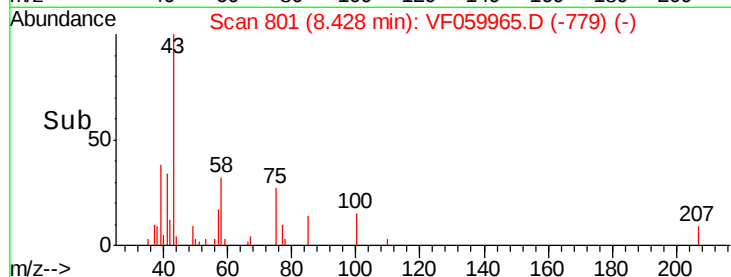
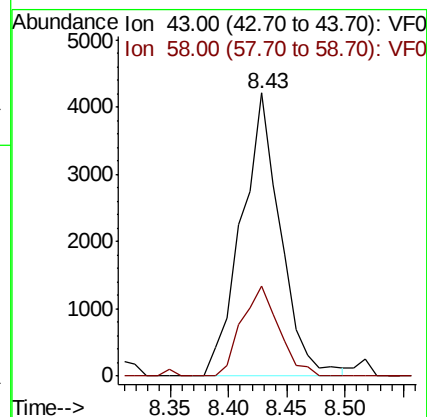
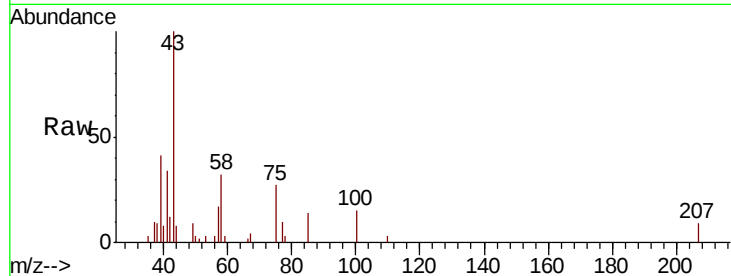
58 31.9 24.2 36.4

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#52

Toluene

Concen: 2.47 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.00 min

Lab File: VF059965.D

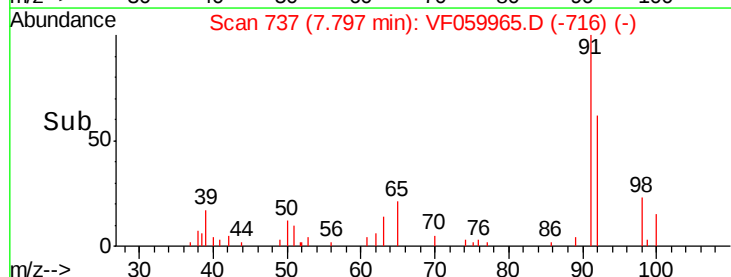
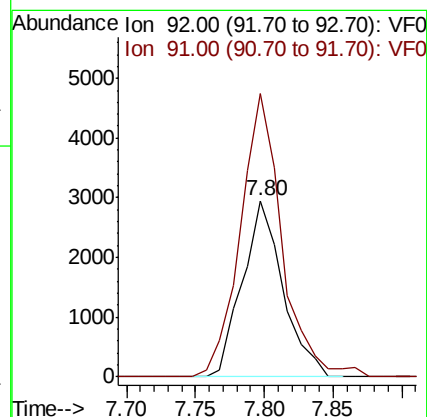
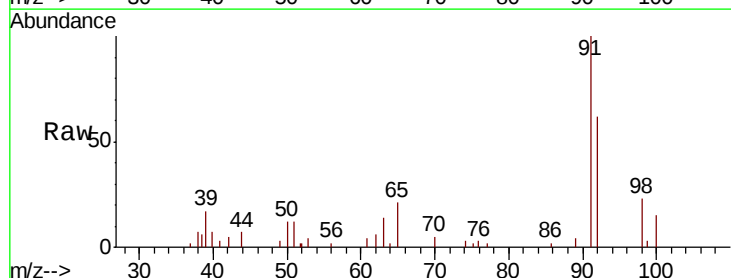
Acq: 15 Aug 2018 1:37

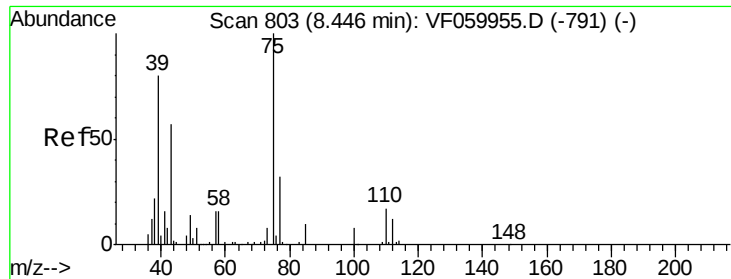
Tgt Ion: 92 Resp: 6056

Ion Ratio Lower Upper

92 100

91 160.9 131.2 196.8





#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

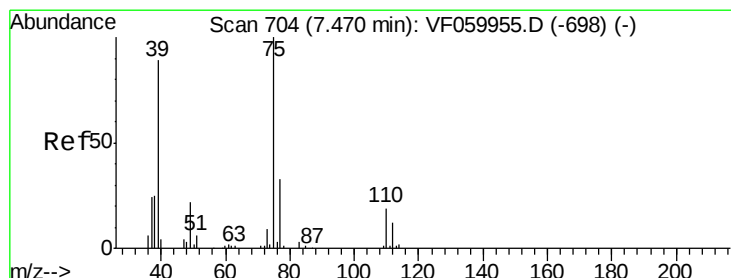
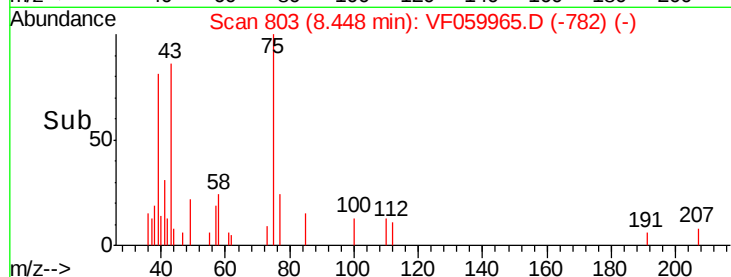
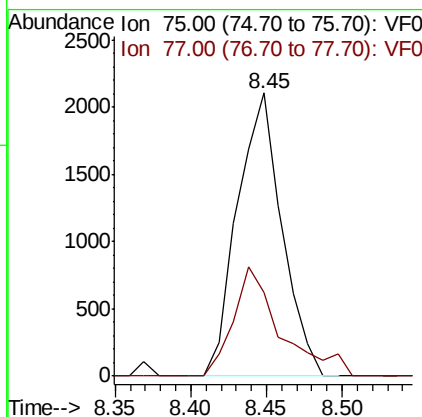
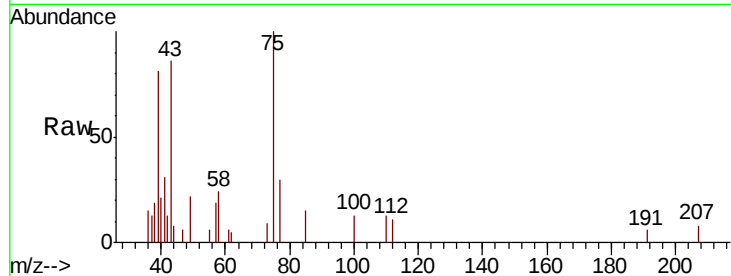
Acq: 15 Aug 2018 1:37

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.7	25.8	38.6

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

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#54

cis-1,3-Dichloropropene

Concen: 1.88 ug/l

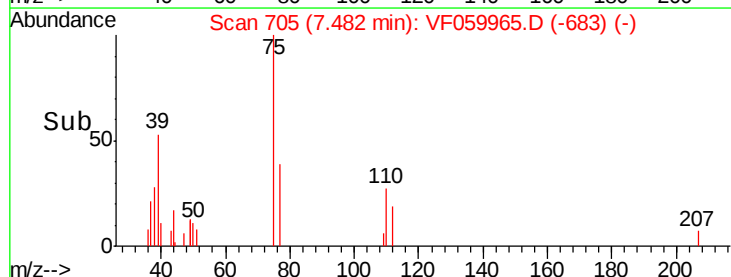
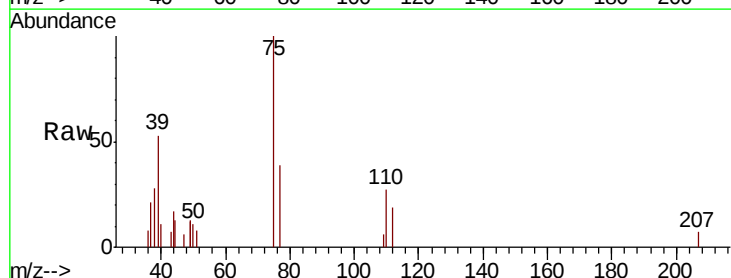
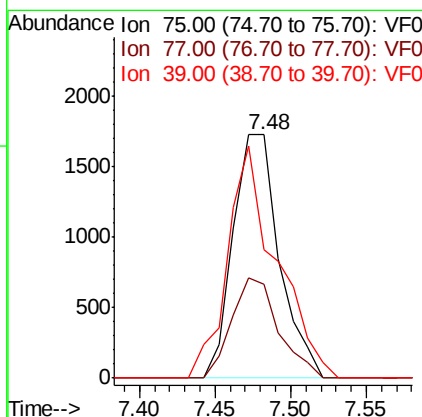
RT: 7.48 min Scan# 705

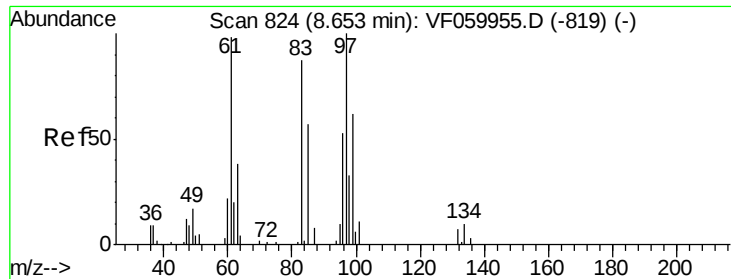
Delta R.T. 0.01 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
75	100		
77	38.8	26.1	39.1
39	52.8	71.6	107.4#





#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

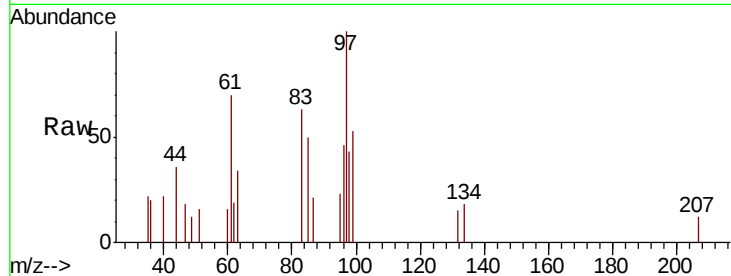
ClientSampleId :

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

Manual Integrations
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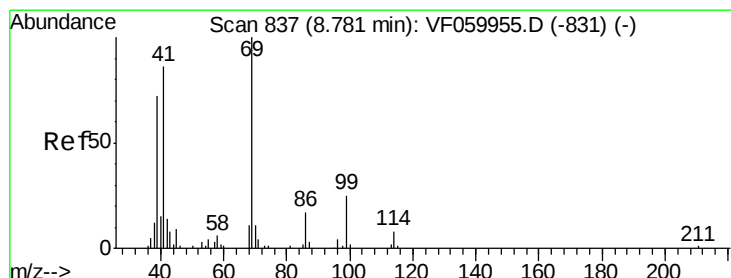
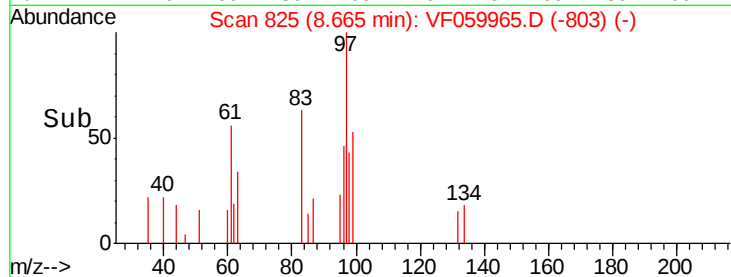
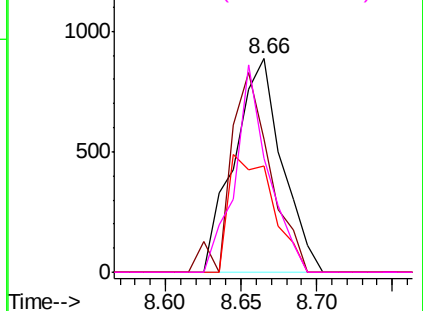


Abundance Ion 97.00 (96.70 to 97.70): VF0

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

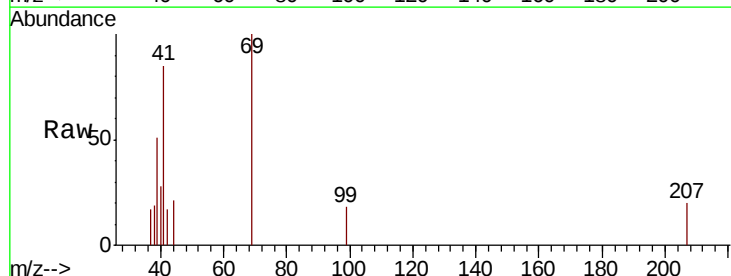
RT: 8.78 min Scan# 837

Delta R.T. 0.00 min

Lab File: VF059965.D

Acq: 15 Aug 2018 1:37

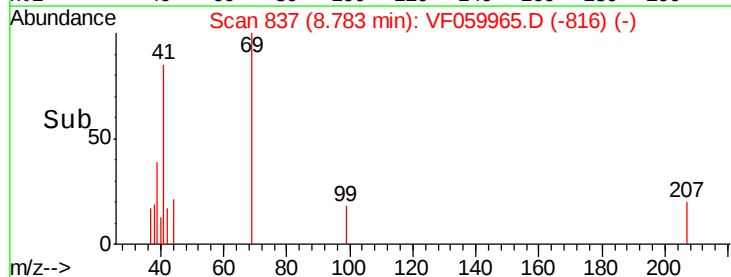
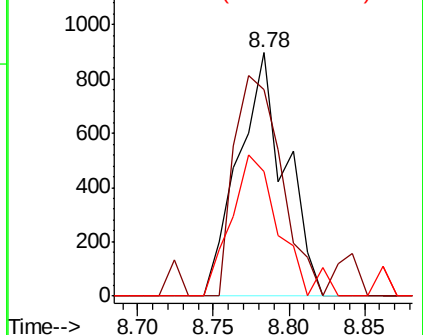
Tgt Ion:	69	Resp:	1945
Ion	Ratio	Lower	Upper
69	100		
41	84.6	68.7	103.1
39	51.2	58.5	87.7#

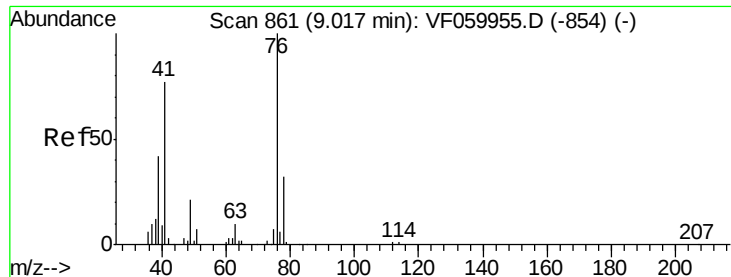


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





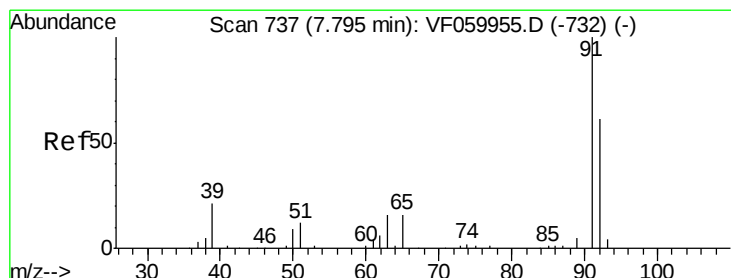
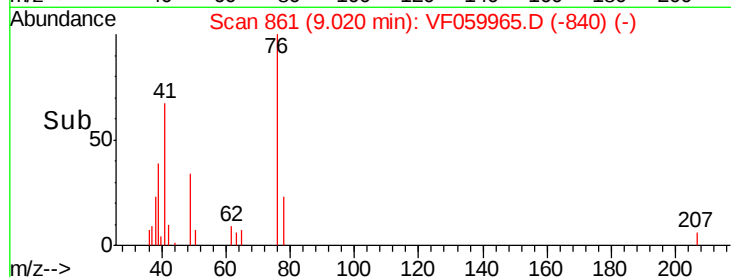
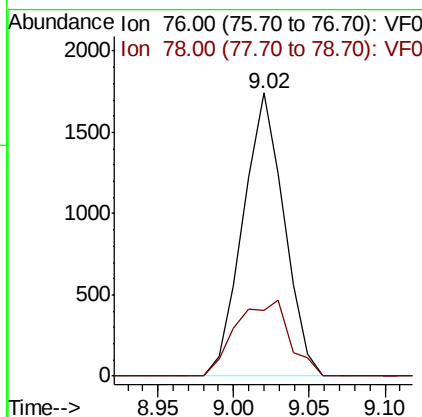
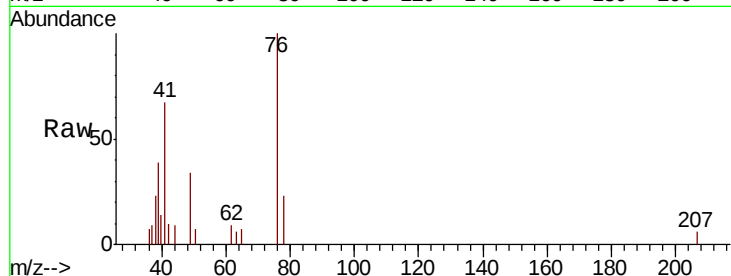
#57
 1,3-Dichloropropane
 Concen: 2.14 ug/l
 RT: 9.02 min Scan# 861
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	23.1	25.5	38.3#

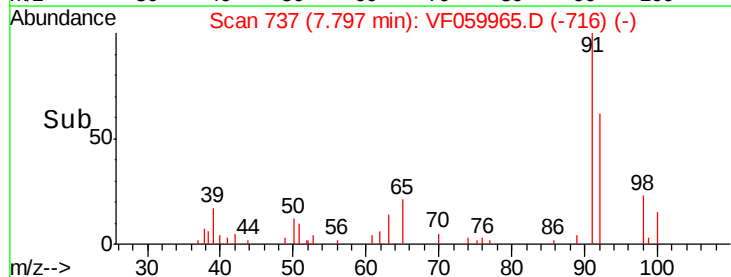
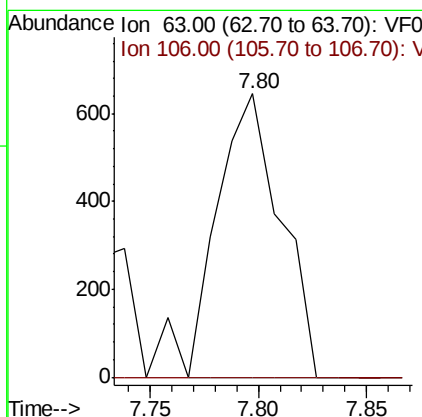
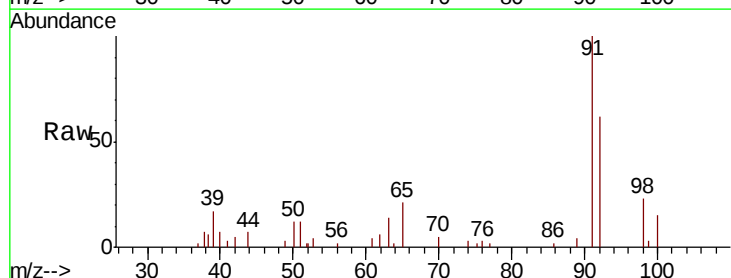
Manual Integrations
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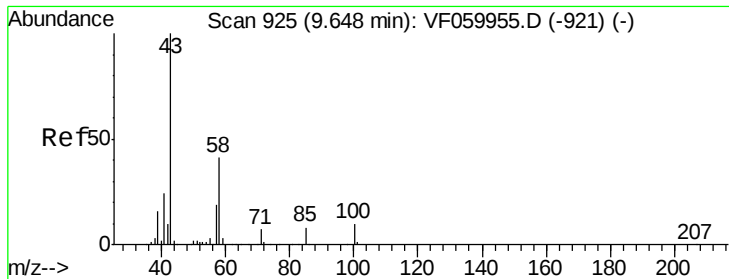
apatel
 8/16/2018 12:19:48 PM



#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	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





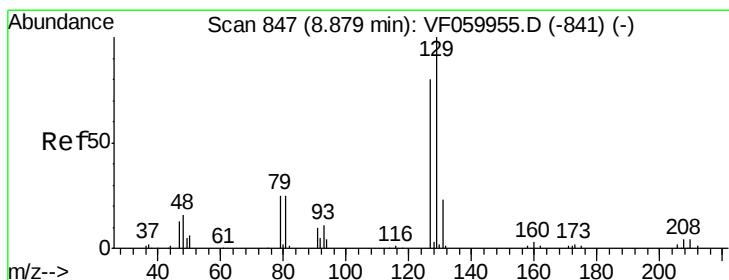
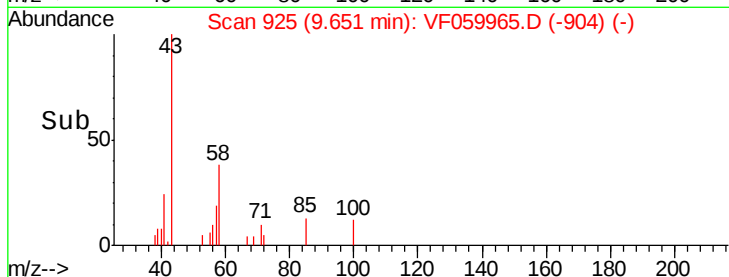
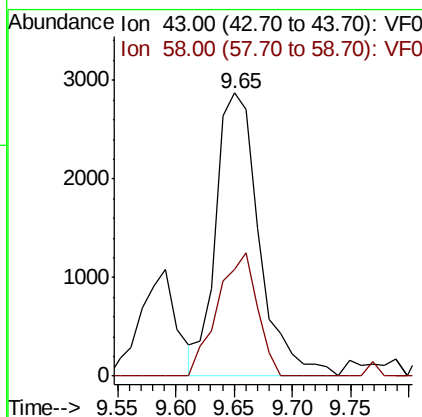
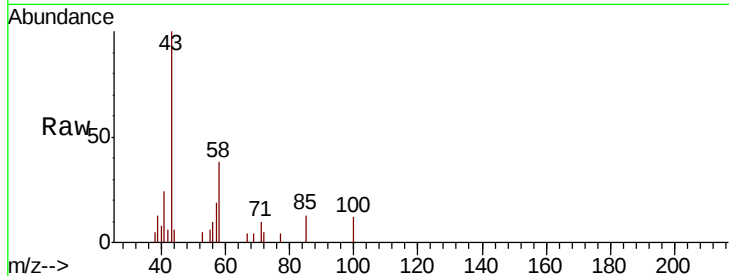
#59
2-Hexanone
Concen: 11.50 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

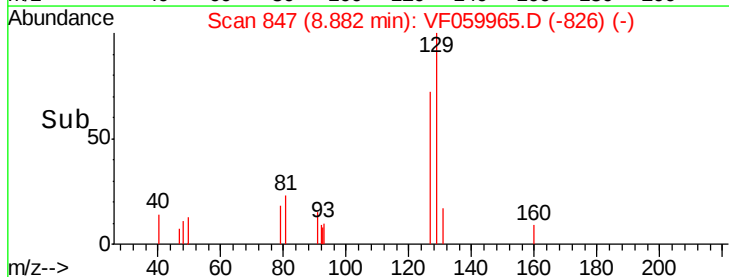
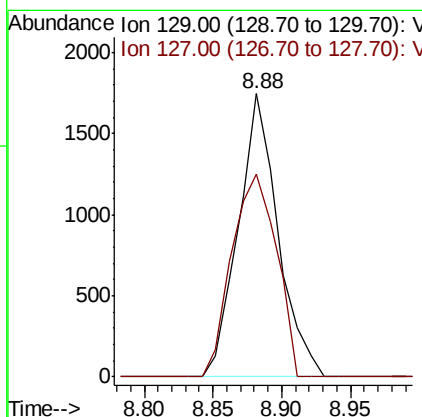
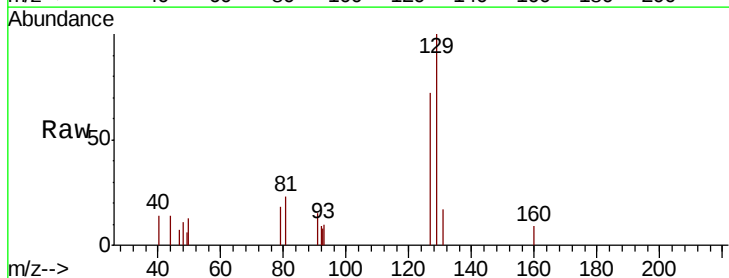
Manual Integrations
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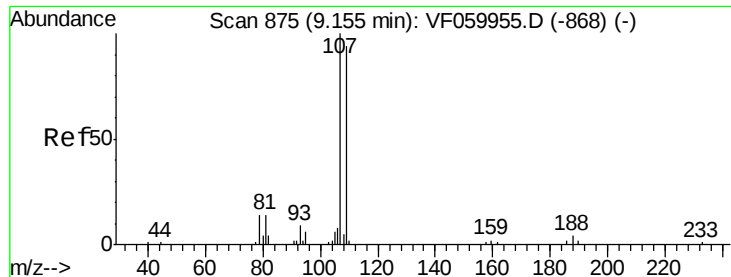
apatel
8/16/2018 12:19:48 PM



#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

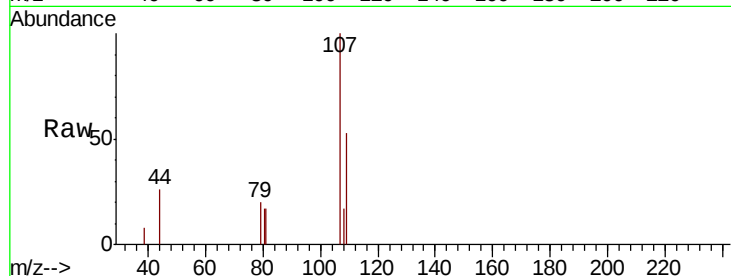
107 100

109 53.4 75.0 112.6#

Manual Integrations
APPROVED

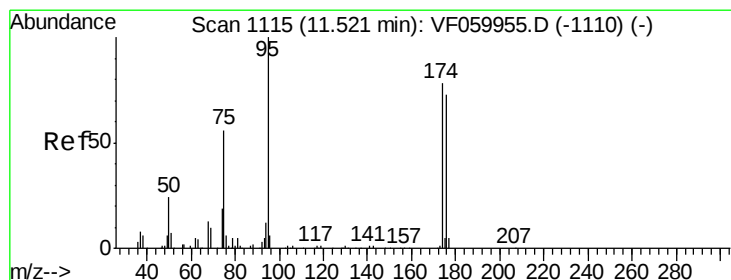
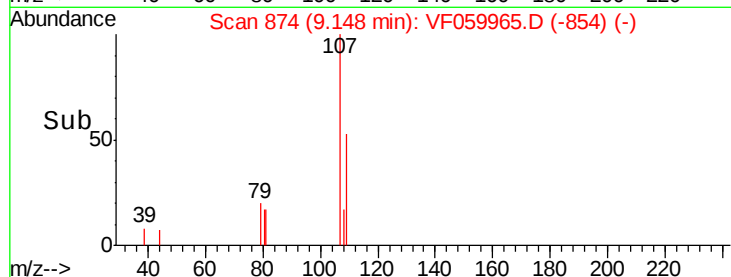
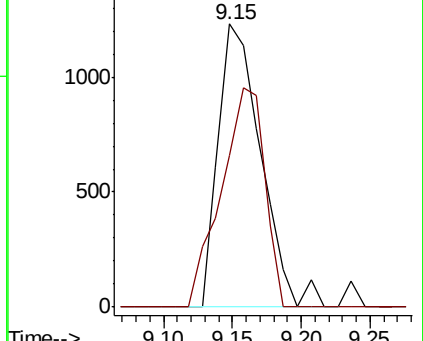
apatel

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#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

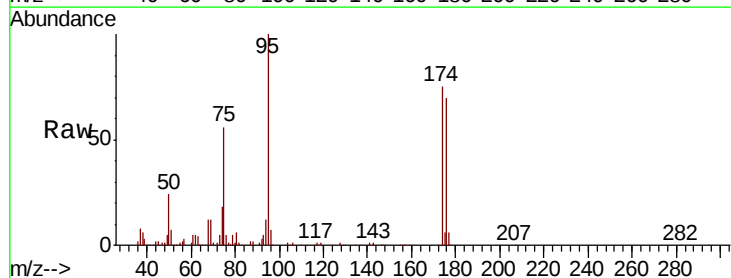
Tgt Ion: 95 Resp: 107931

Ion Ratio Lower Upper

95 100

174 75.2 0.0 156.4

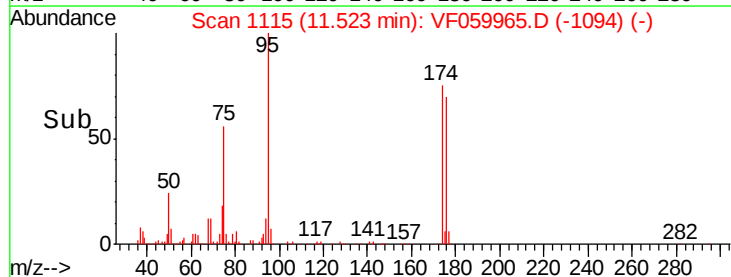
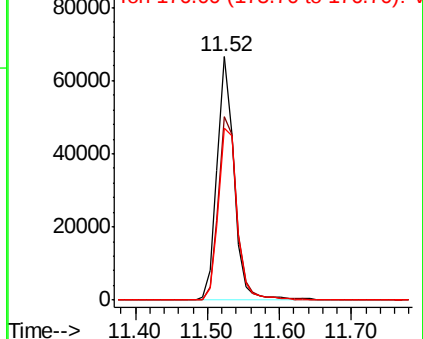
176 70.4 0.0 146.8

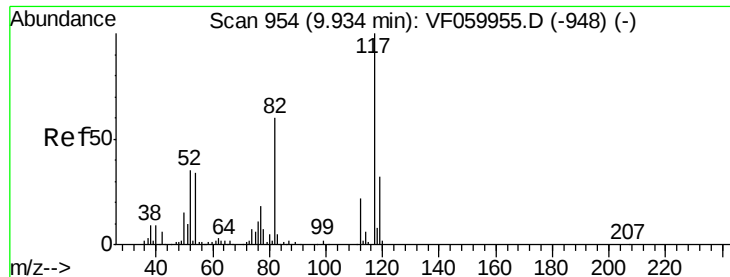


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





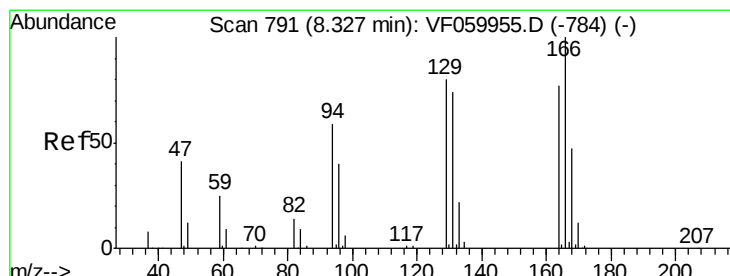
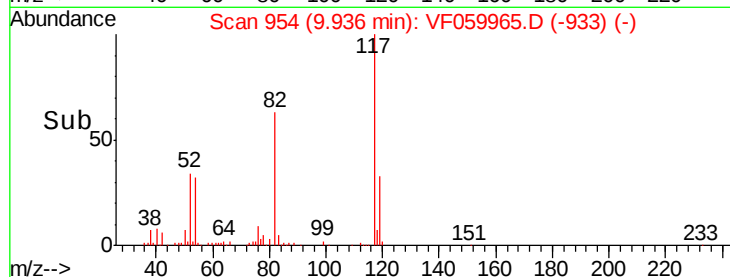
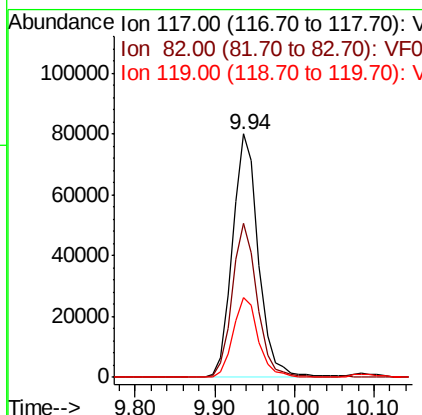
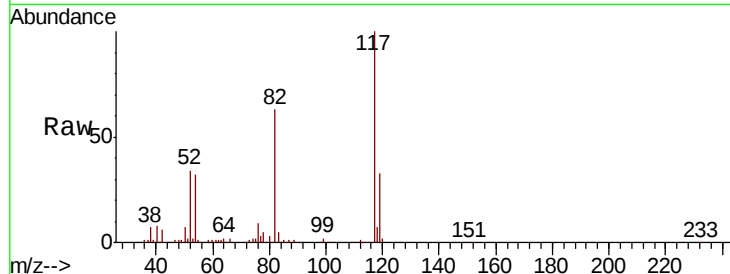
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.94 min Scan# 954
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	182355		
82	63.2	48.3	72.5	
119	32.8	25.7	38.5	

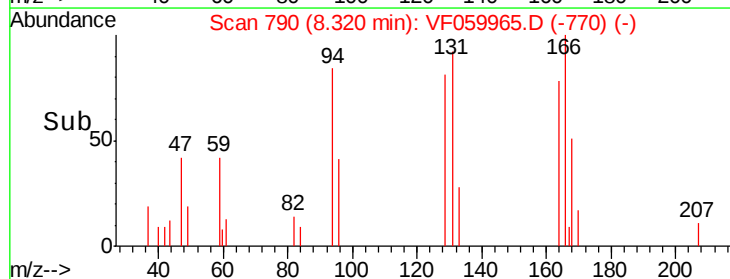
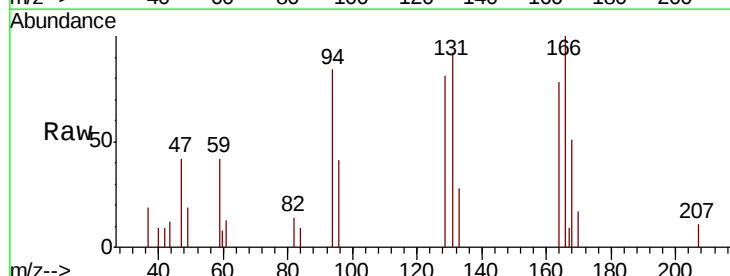
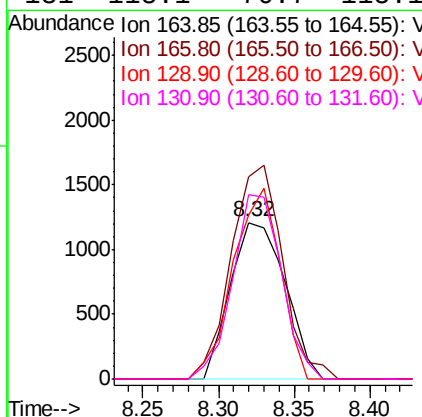
Manual Integrations
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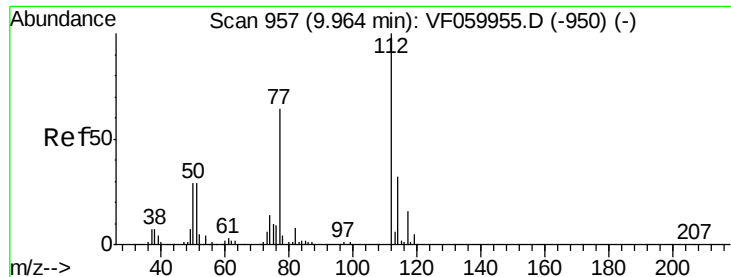
apatel
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#64
Tetrachloroethene
Concen: 2.16 ug/l
RT: 8.32 min Scan# 790
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	3065		
166	128.9	103.4	155.2	
129	104.4	82.2	123.4	
131	118.1	76.7	115.1	#





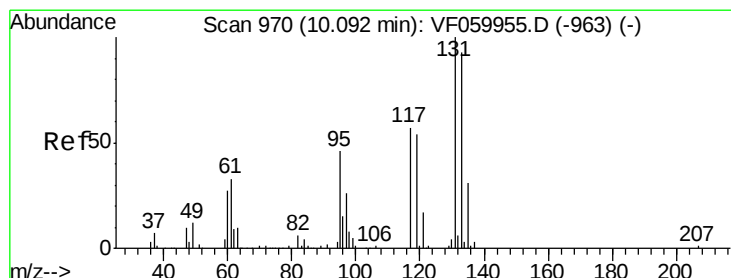
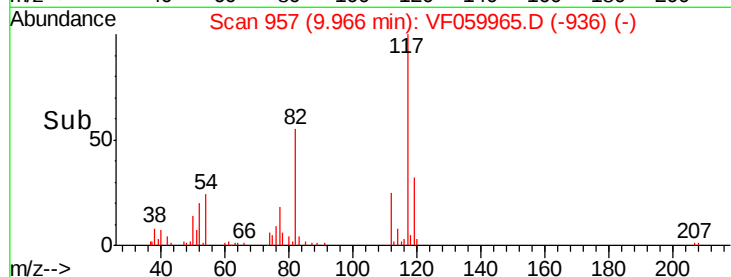
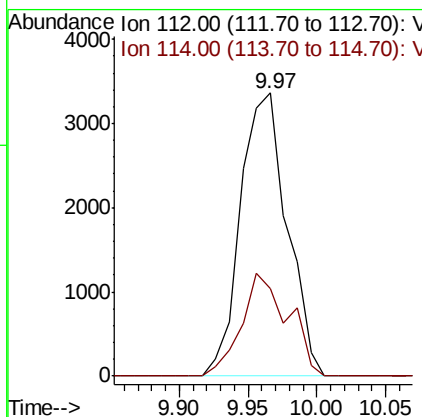
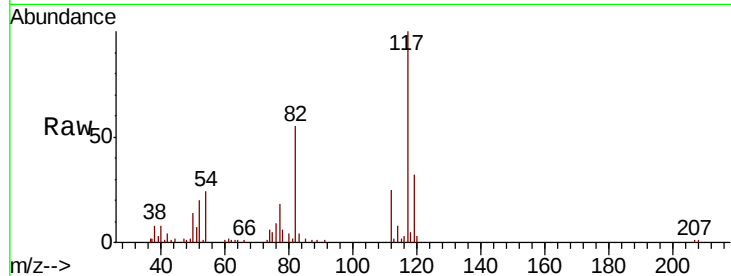
#65
Chlorobenzene
Concen: 2.25 ug/l
RT: 9.97 min Scan# 957
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.8	38.6

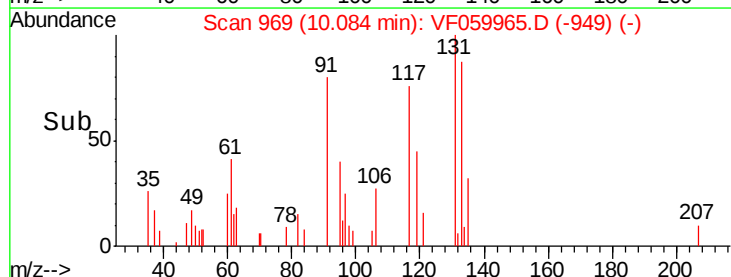
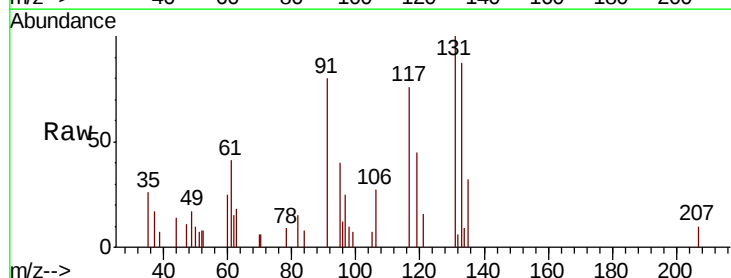
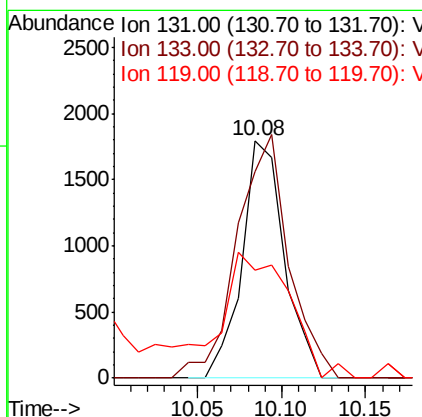
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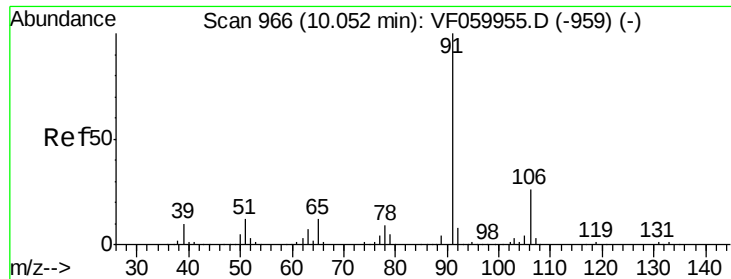
apatel
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#66
1,1,1,2-Tetrachloroethane
Concen: 1.84 ug/l
RT: 10.08 min Scan# 969
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
131	100		
133	87.1	46.4	139.1
119	45.5	27.2	81.5





#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

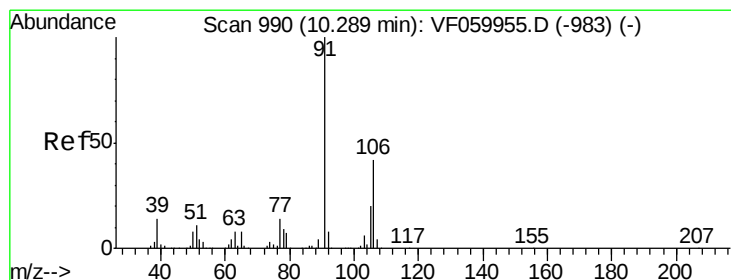
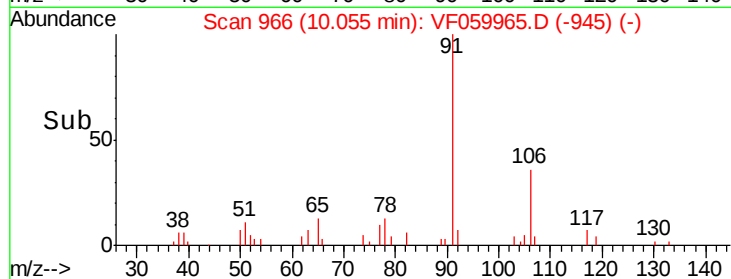
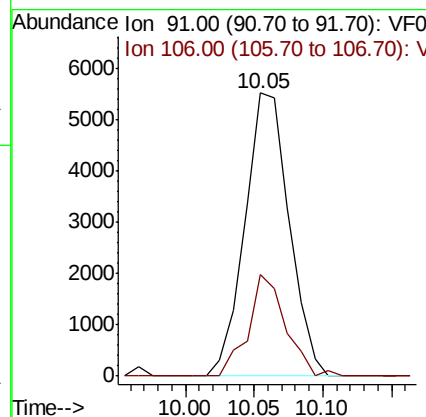
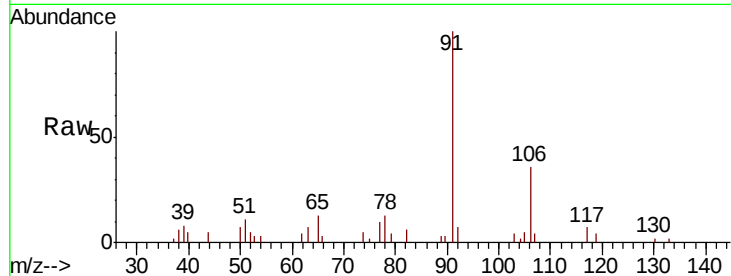
106 35.7 20.7 31.1#

Manual Integrations

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#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

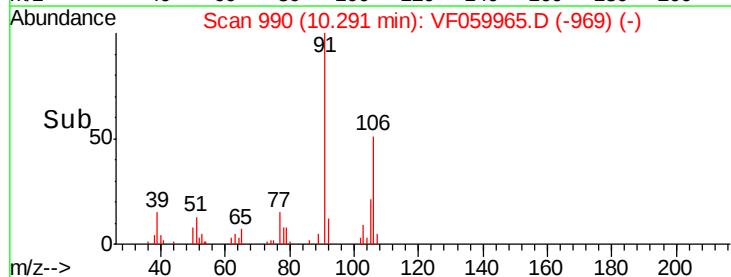
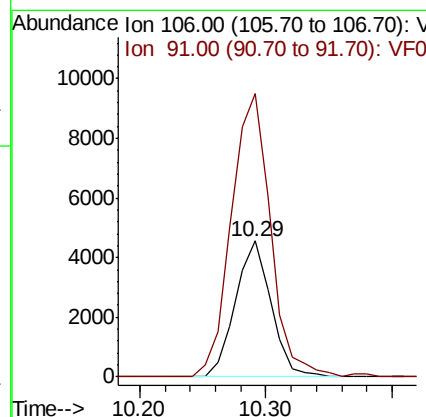
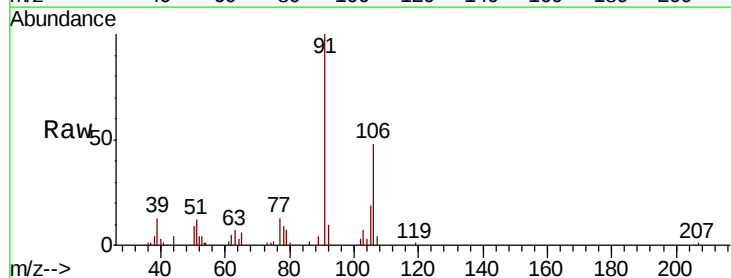
Acq: 15 Aug 2018 1:37

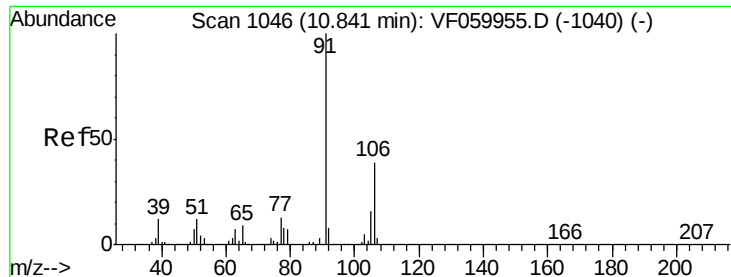
Tgt Ion:106 Resp: 8890

Ion Ratio Lower Upper

106 100

91 208.4 191.8 287.8





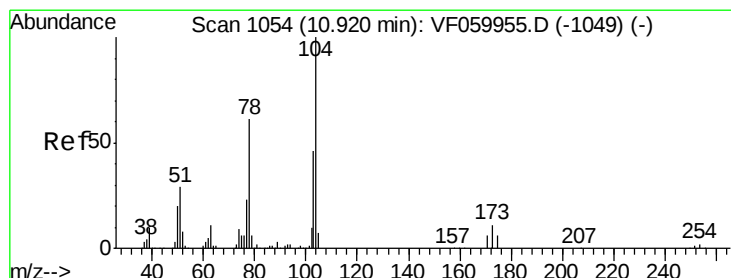
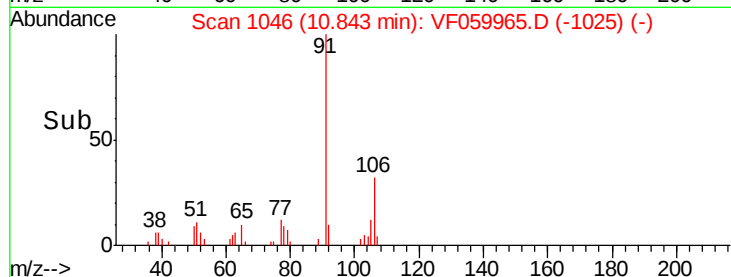
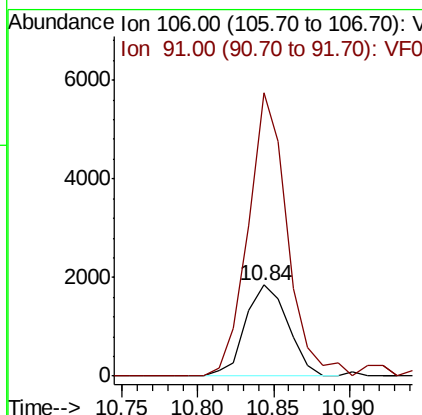
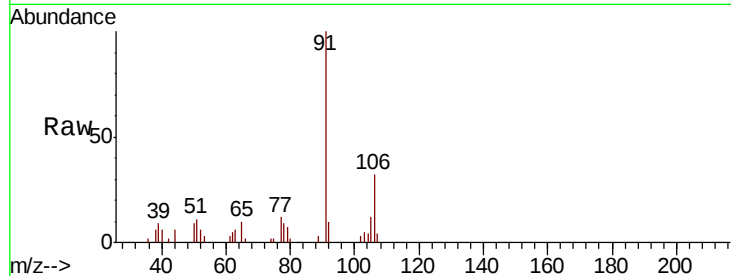
#69
o-Xylene
Concen: 1.60 ug/l
RT: 10.84 min Scan# 1046
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
106	100		
91	310.6	126.8	380.6

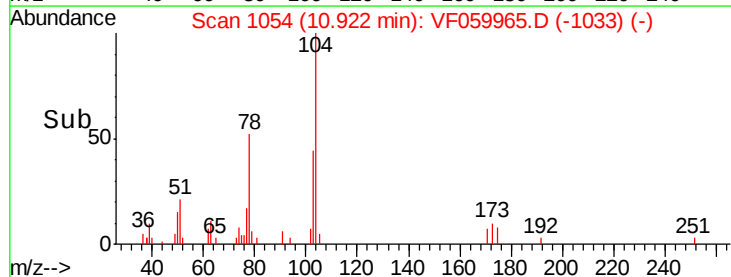
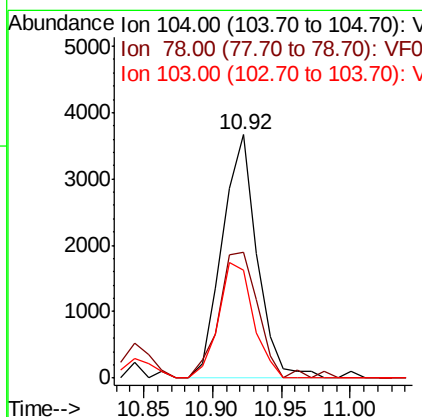
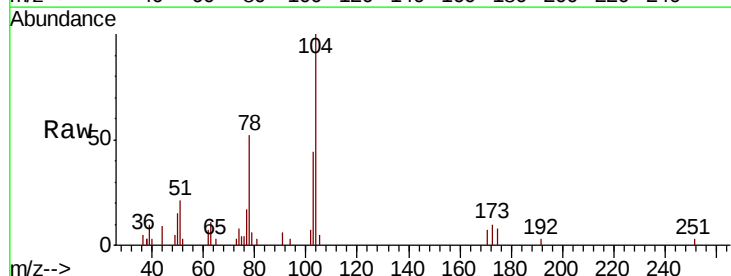
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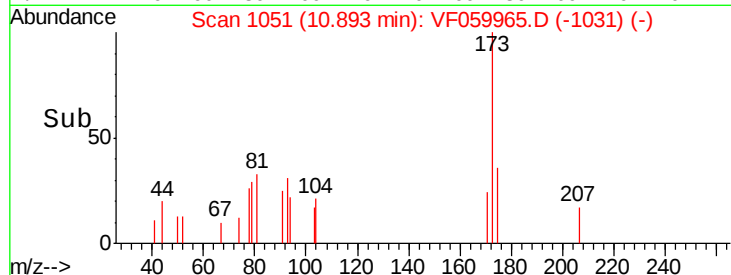
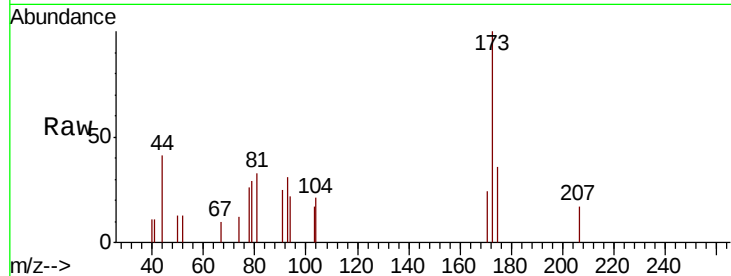
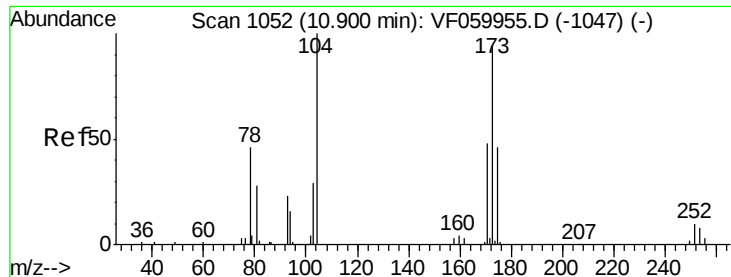
apatel
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#70
Styrene
Concen: 1.93 ug/l
RT: 10.92 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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





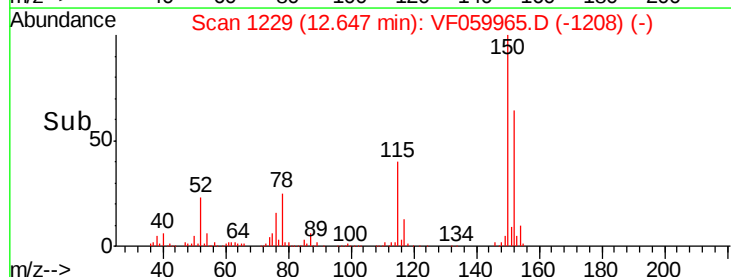
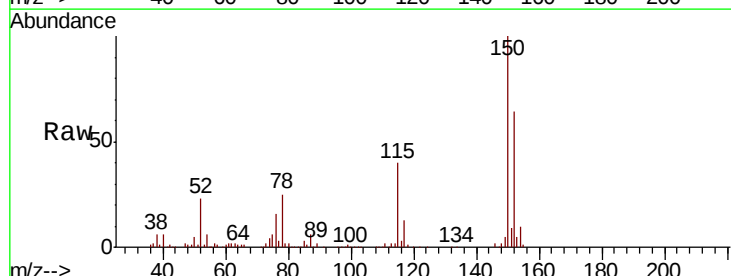
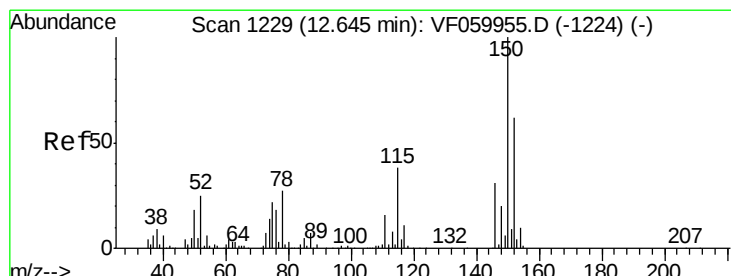
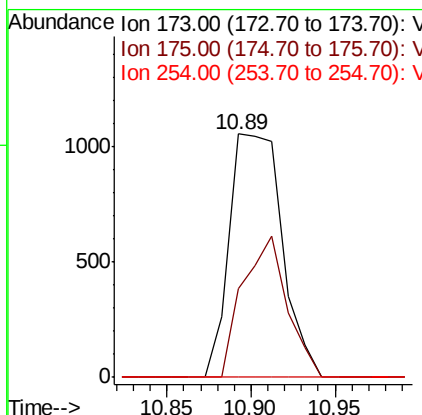
#71
Bromoform
Concen: 2.16 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tot Ion	Ratio	Lower	Upper
173	100		
175	36.4	24.6	73.6
254	0.0	0.0	0.0

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

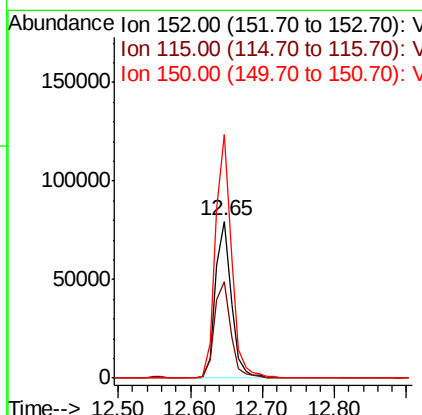
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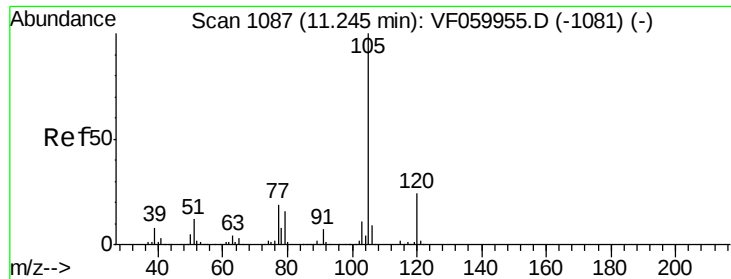
apatel
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.6	31.4	94.0
150	155.1	0.0	326.2





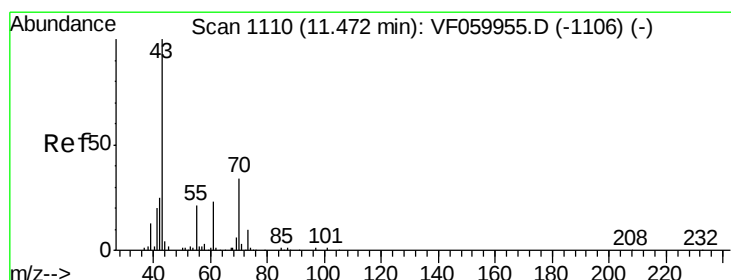
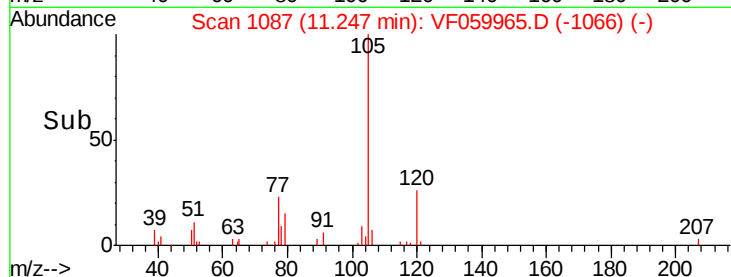
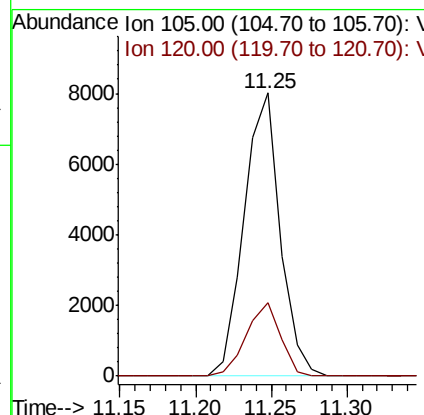
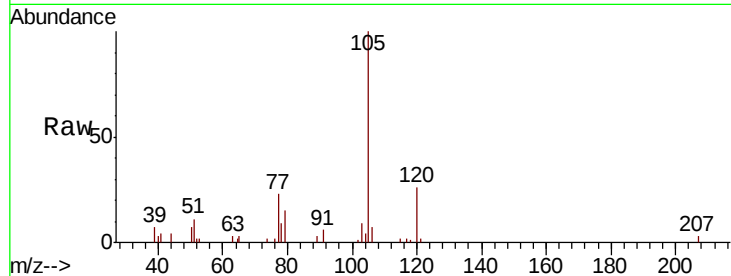
#73
Isopropylbenzene
Concen: 1.76 ug/l
RT: 11.25 min Scan# 1087
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.8	11.9	35.9

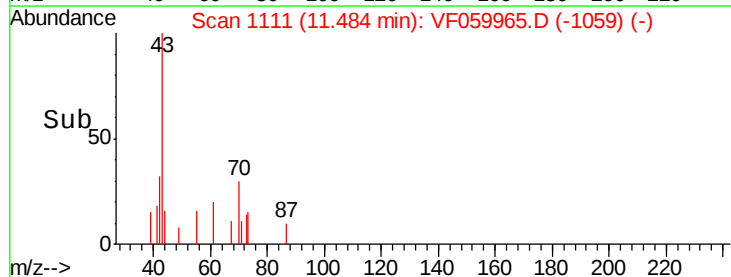
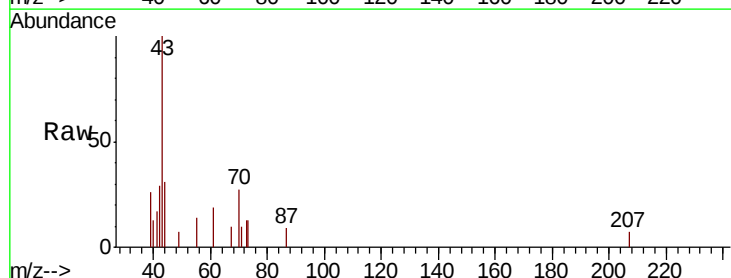
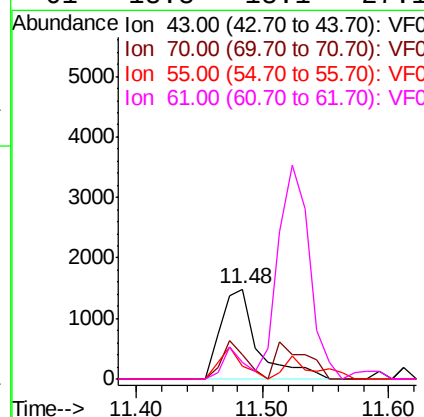
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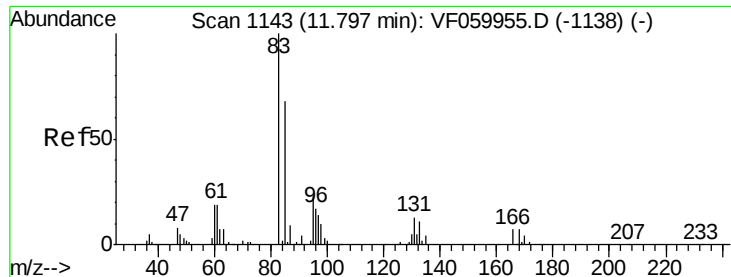
apatel
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#74
N-ethyl acetate
Concen: 1.82 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	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

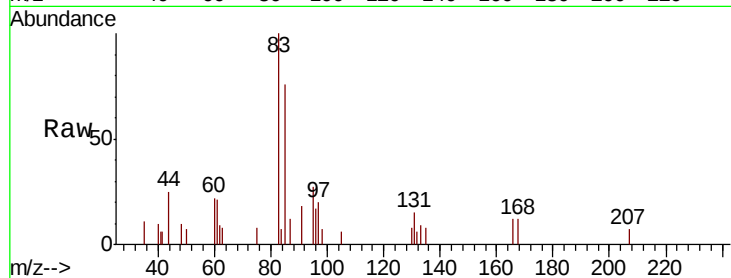
ClientSampleId :

MDL-SOIL-03-QT3-2018

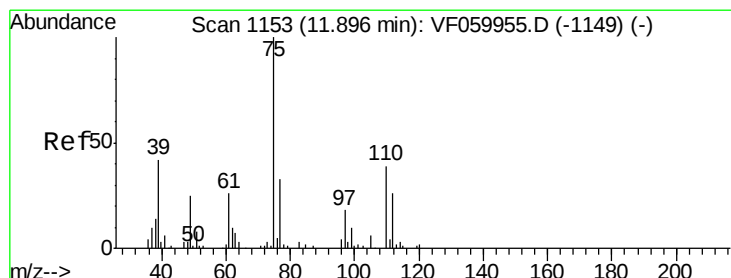
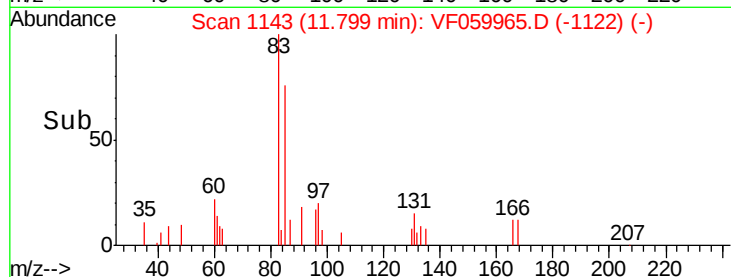
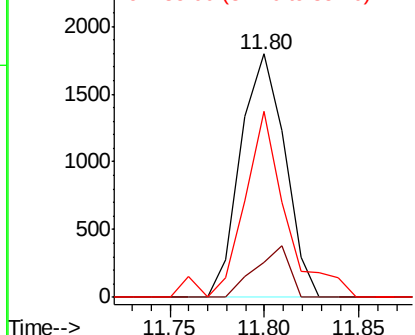
Tot Ion:	83	Resp:	2920
Ion Ratio	Lower	Upper	
83	100		
131	14.5	6.3	19.1
85	76.2	33.9	101.7

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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

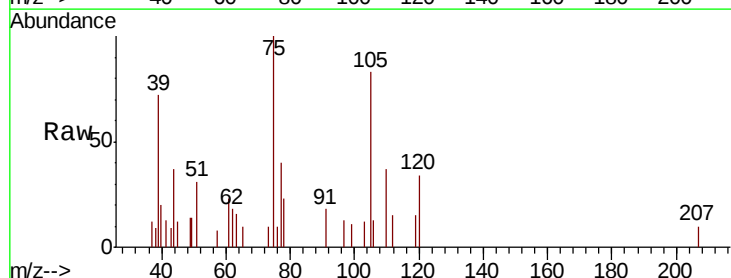
RT: 11.91 min Scan# 1154

Delta R.T. 0.01 min

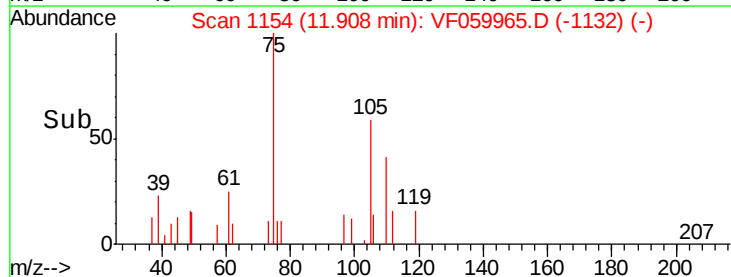
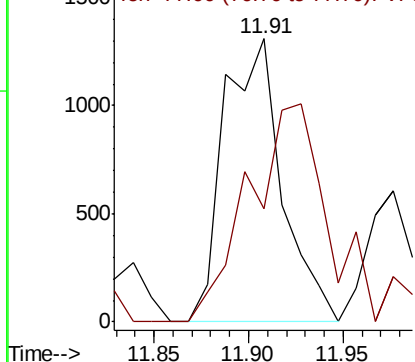
Lab File: VF059965.D

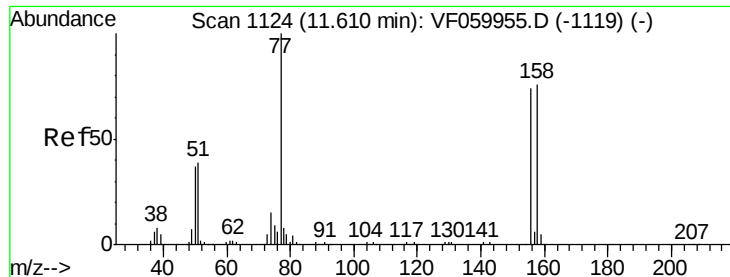
Acq: 15 Aug 2018 1:37

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

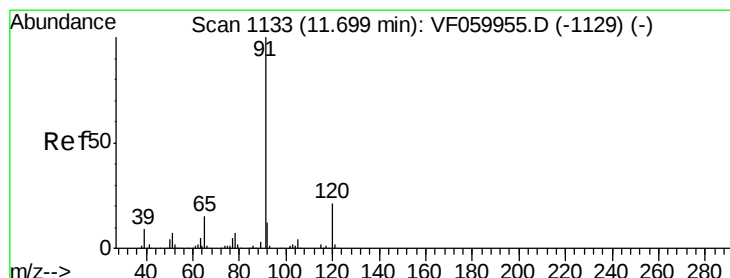
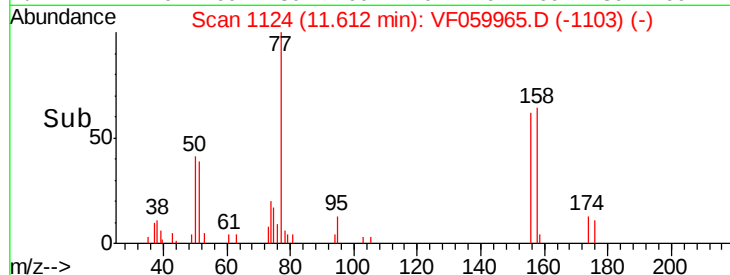
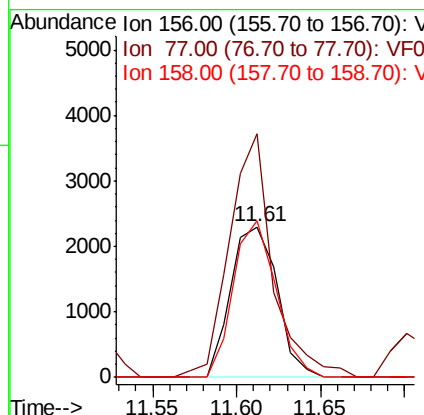
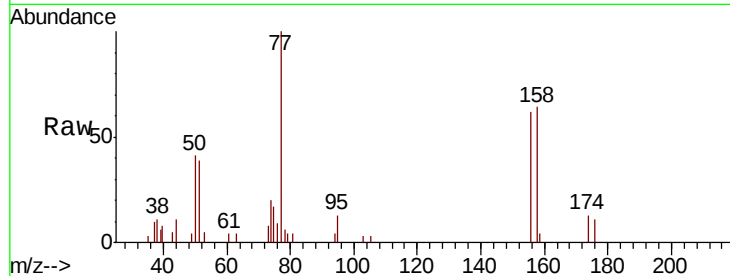
ClientSampleId :

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

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#78

n-propylbenzene

Concen: 2.14 ug/l

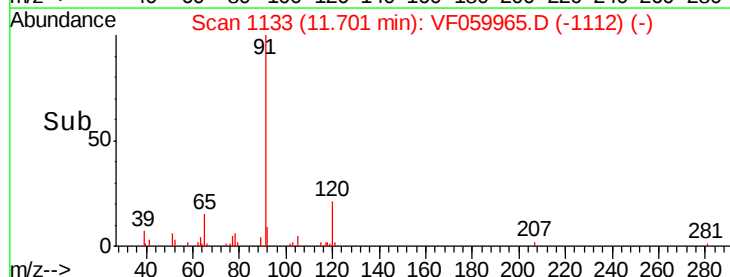
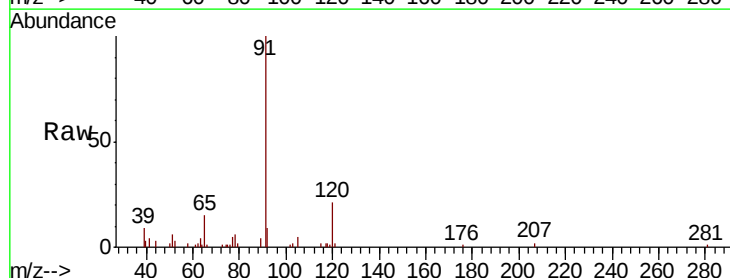
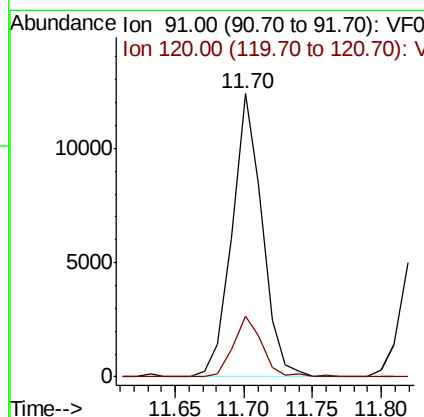
RT: 11.70 min Scan# 1133

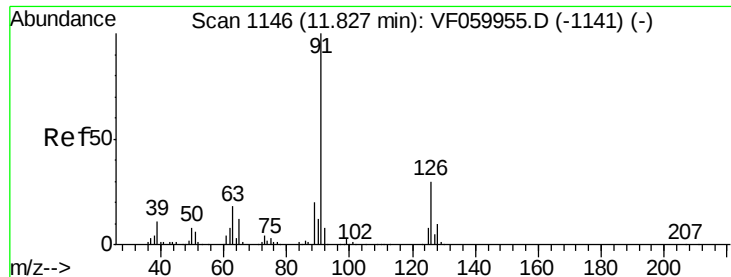
Delta R.T. 0.00 min

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





#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

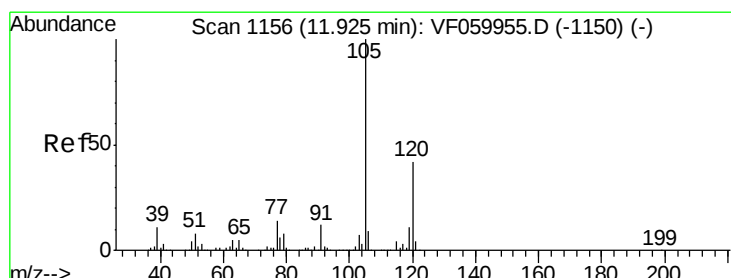
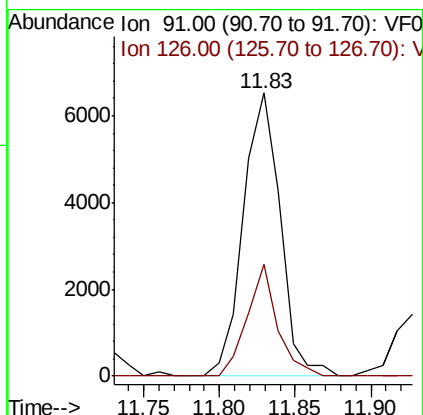
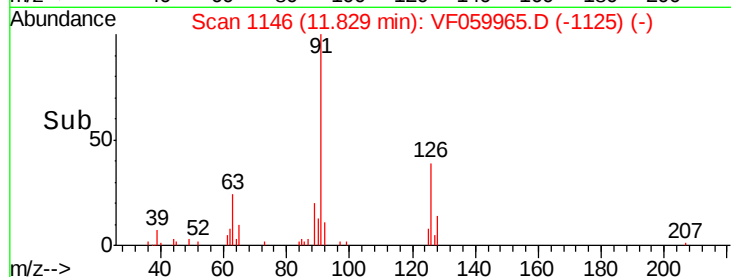
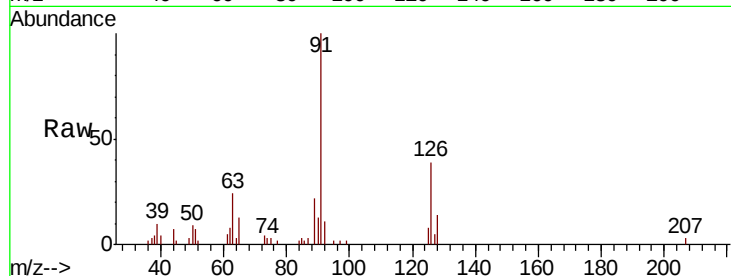
91 100

126 39.3 15.2 45.5

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#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

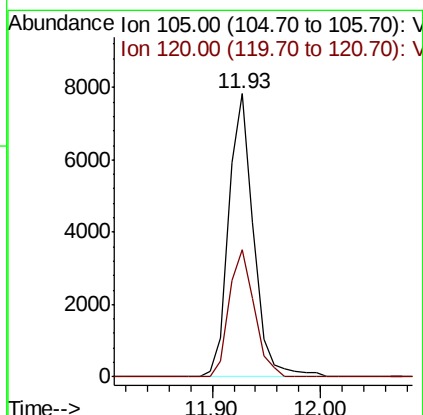
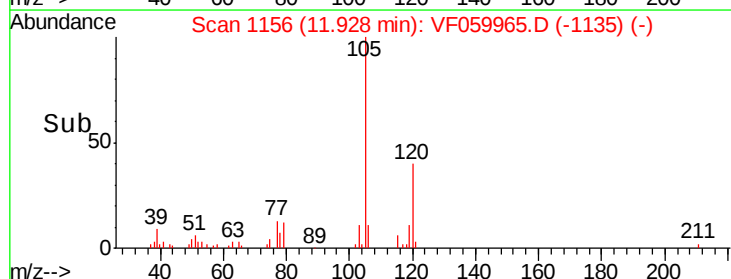
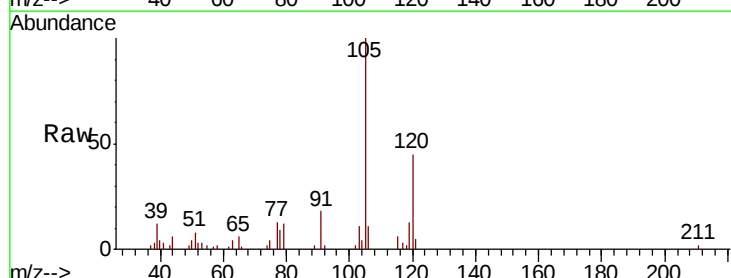
Acq: 15 Aug 2018 1:37

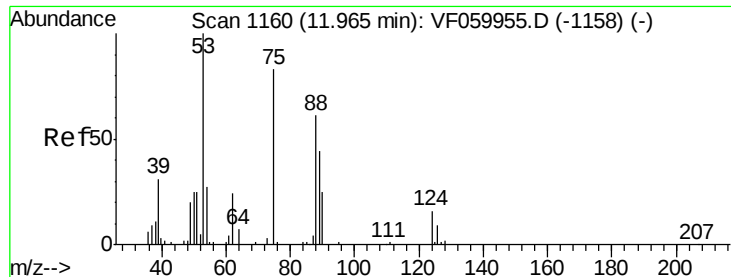
Tgt Ion: 105 Resp: 12536

Ion Ratio Lower Upper

105 100

120 44.8 21.1 63.3





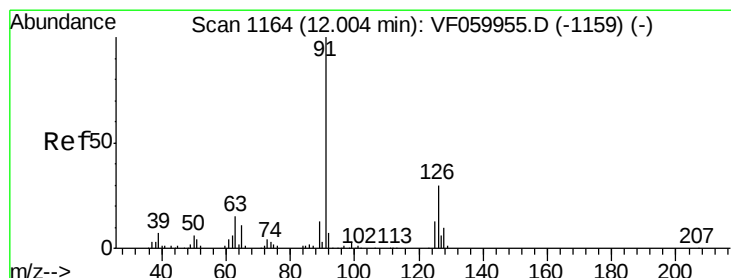
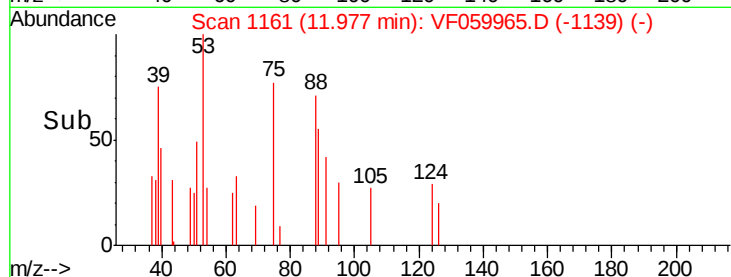
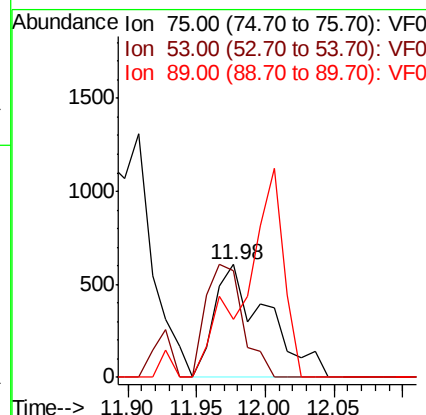
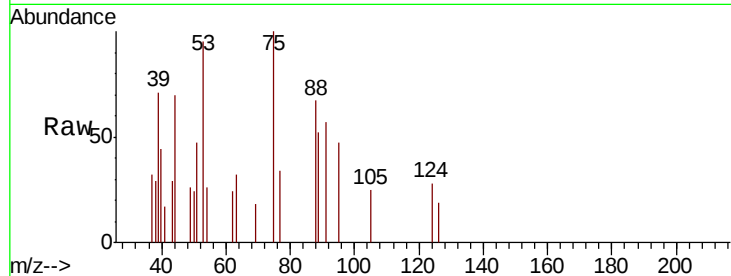
#81
trans-1,4-Dichloro-2-butene
Concen: 3.61 ug/l
RT: 11.98 min Scan# 1161
Delta R.T. 0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	95.1	97.1	145.7#
89	51.9	43.6	65.4

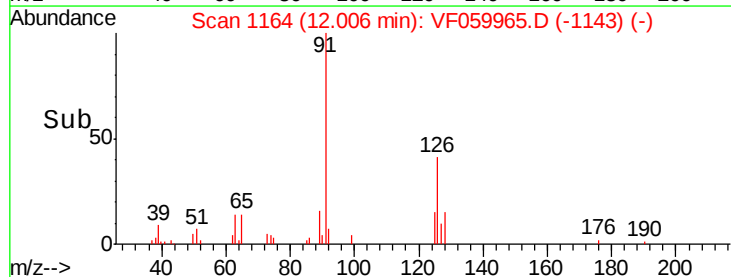
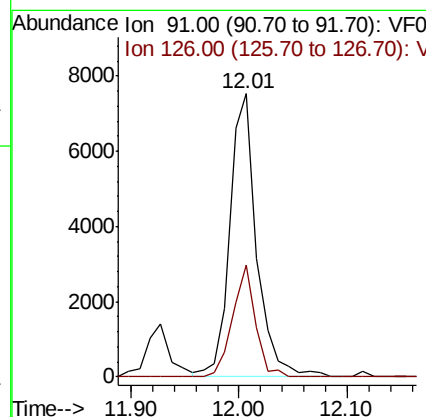
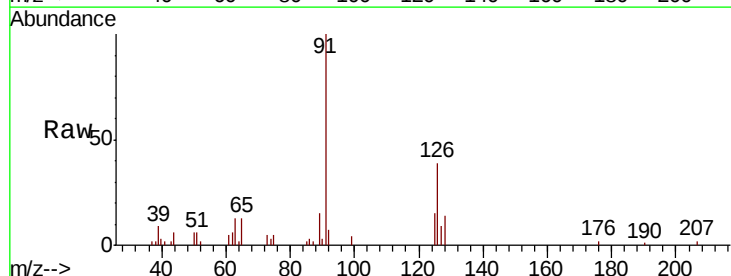
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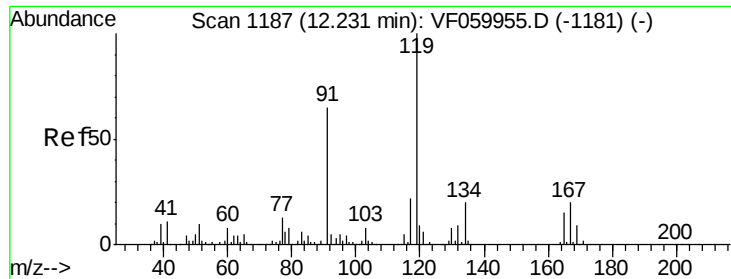
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#82
4-Chlorotoluene
Concen: 2.13 ug/l
RT: 12.01 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	39.4	15.3	45.8





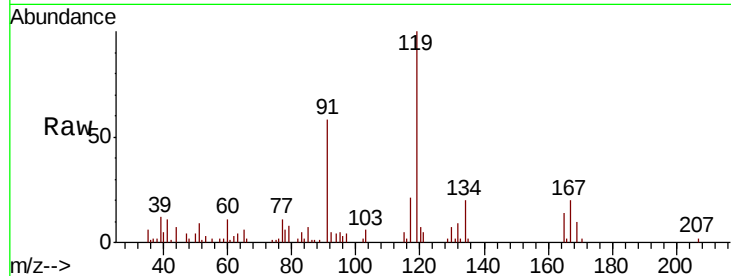
#83
tert-Butylbenzene
Concen: 1.95 ug/l
RT: 12.23 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

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

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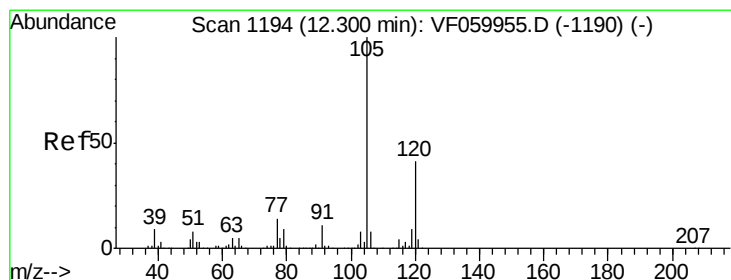
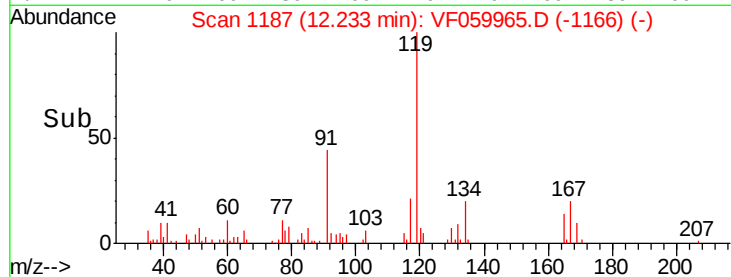
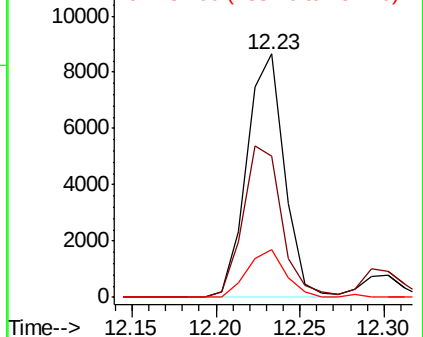


Abundance

Ion 119.00 (118.70 to 119.70): V

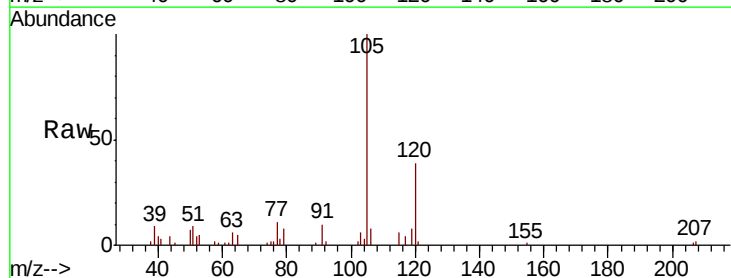
Ion 91.00 (90.70 to 91.70): VF0

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

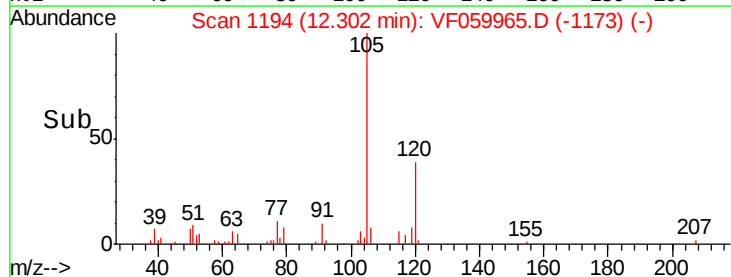
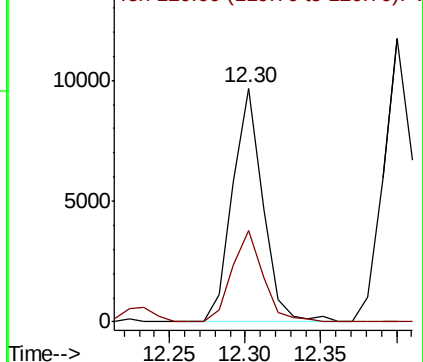
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	13433		
120	38.9	20.6	61.9	

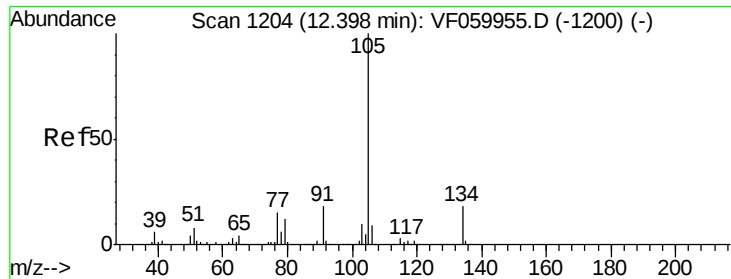


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





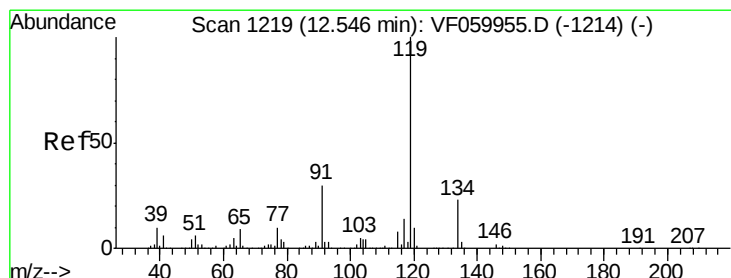
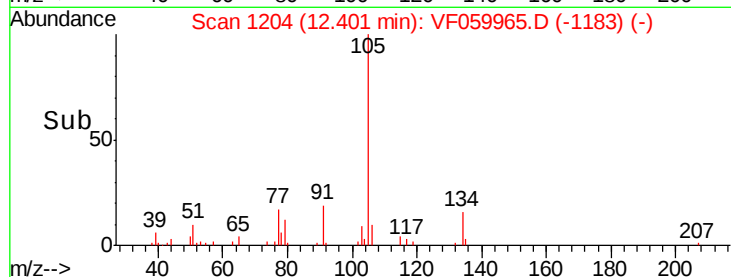
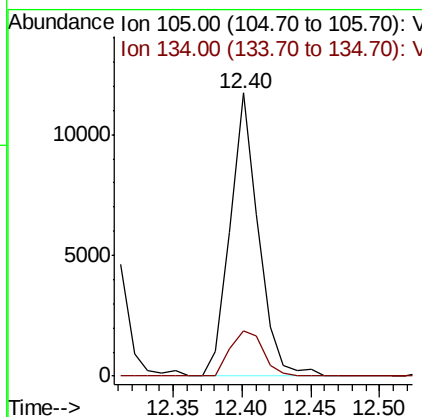
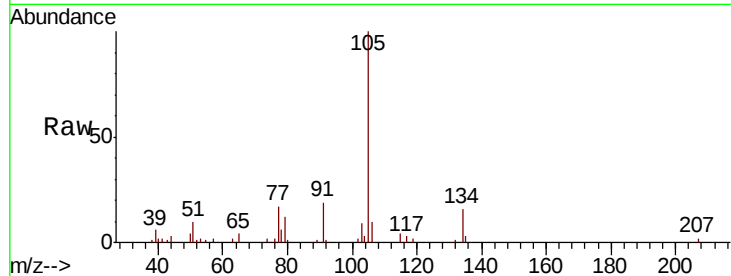
#85
 sec-Butylbenzene
 Concen: 1.90 ug/l
 RT: 12.40 min Scan# 1204
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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

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

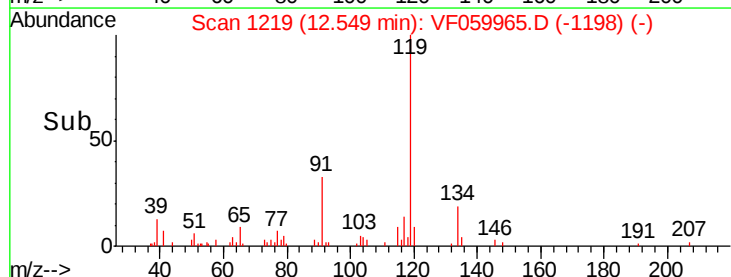
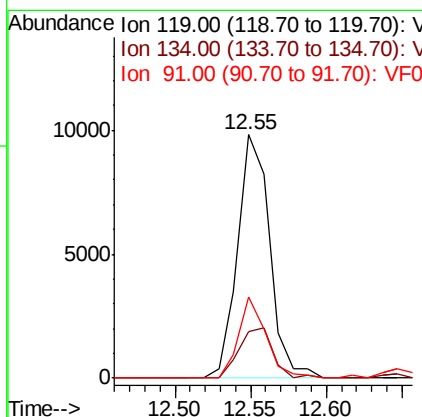
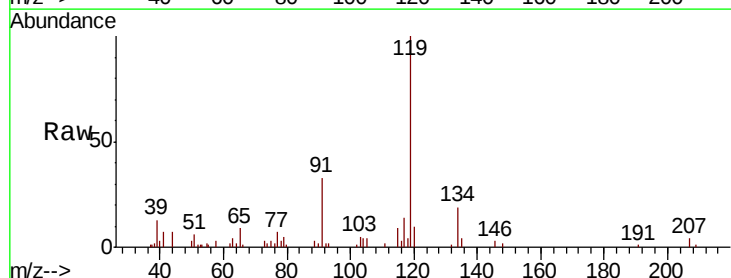
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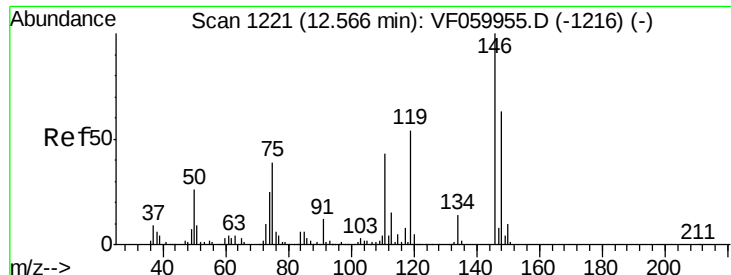
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#86
 p-Isopropyltoluene
 Concen: 1.86 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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





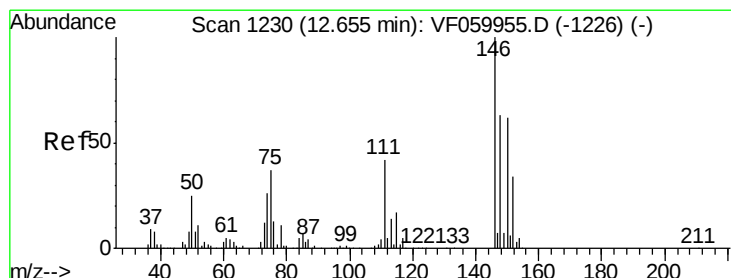
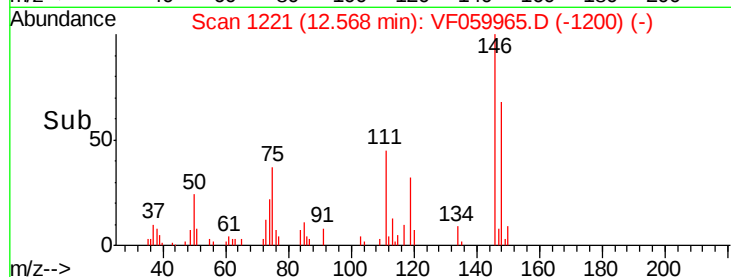
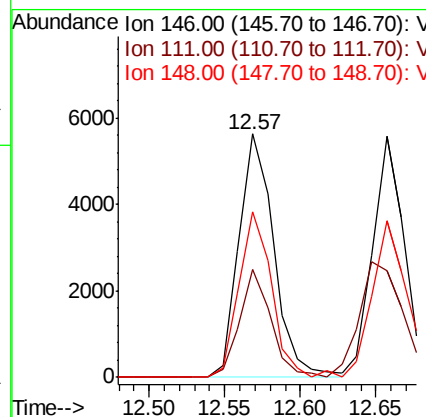
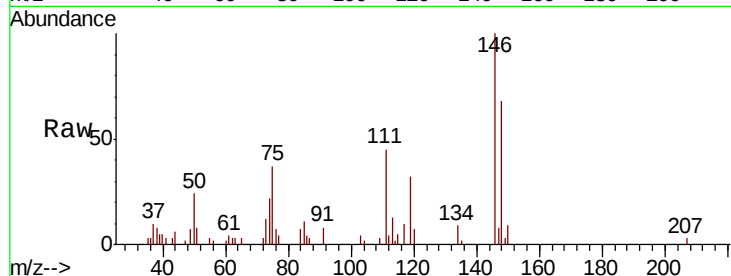
#87
 1,3-Dichlorobenzene
 Concen: 2.42 ug/l
 RT: 12.57 min Scan# 1221
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.6	21.3	63.9
148	67.9	31.4	94.3

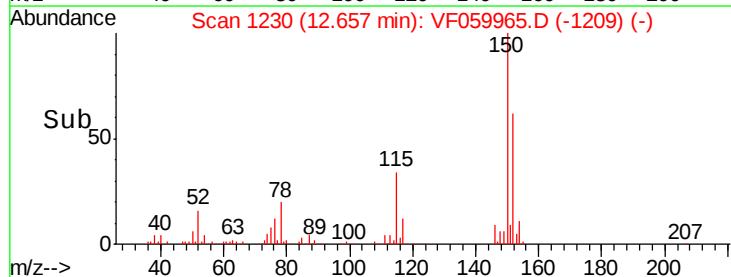
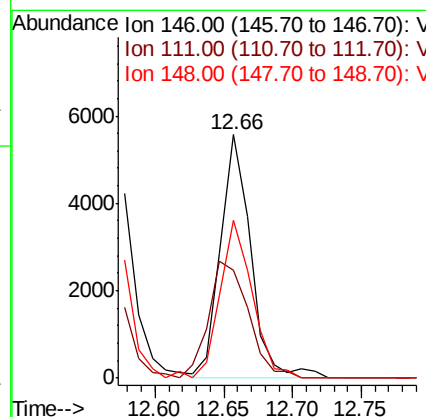
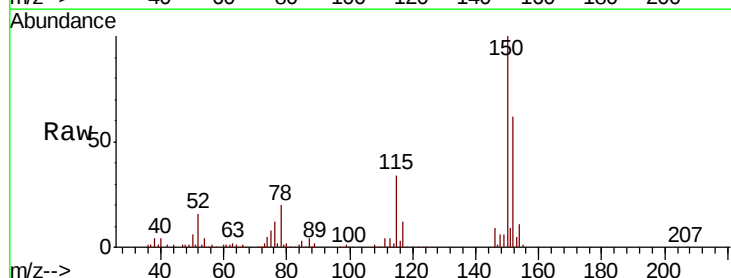
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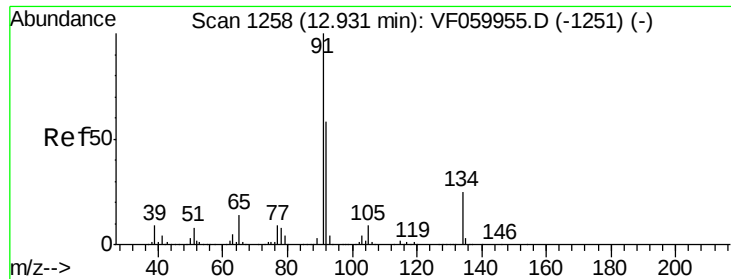
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#88
 1,4-Dichlorobenzene
 Concen: 2.30 ug/l
 RT: 12.66 min Scan# 1230
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.1	63.1
148	65.1	31.7	95.1





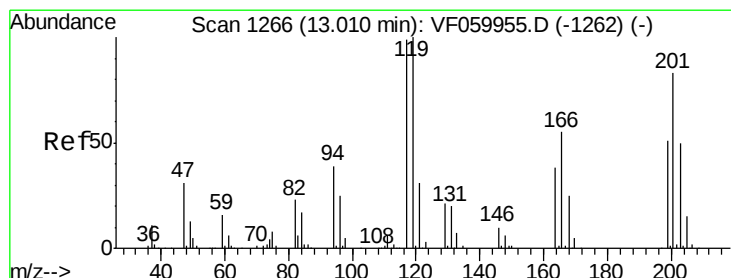
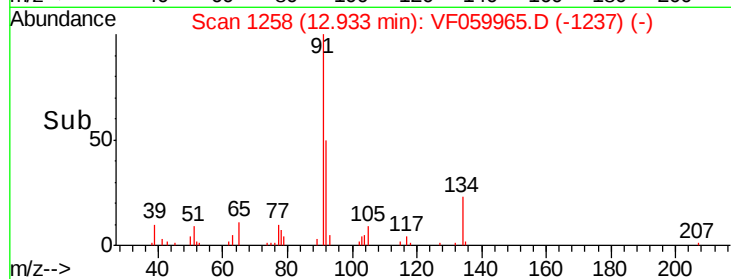
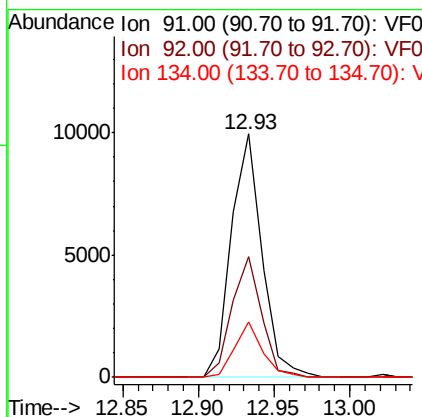
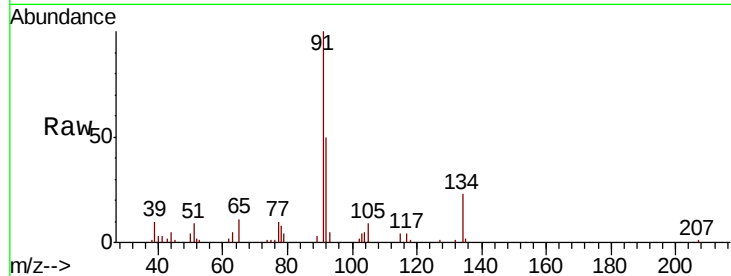
#89
n-Butylbenzene
Concen: 1.87 ug/l
RT: 12.93 min Scan# 1258
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

Tot Ion	Ratio	Resp	Lower	Upper
91	100	13984		
92	49.8	29.2	87.6	
134	22.8	12.8	38.3	

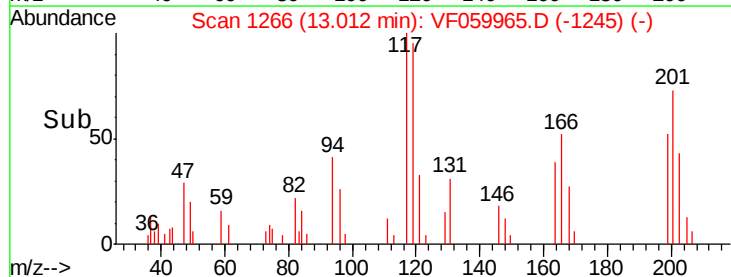
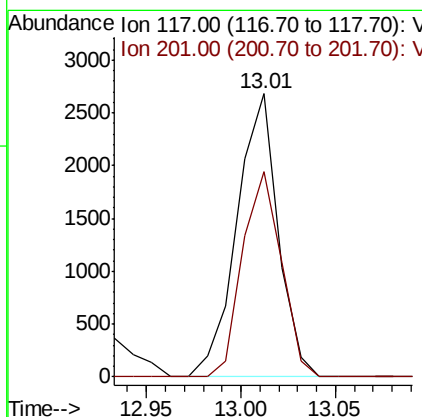
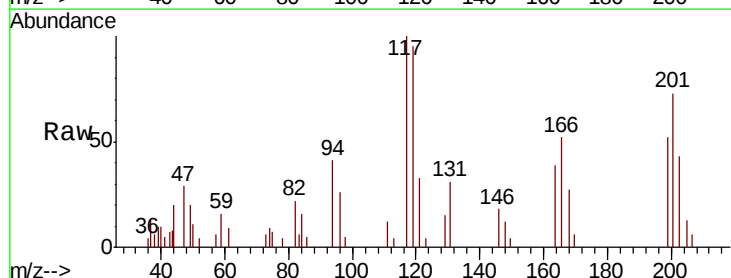
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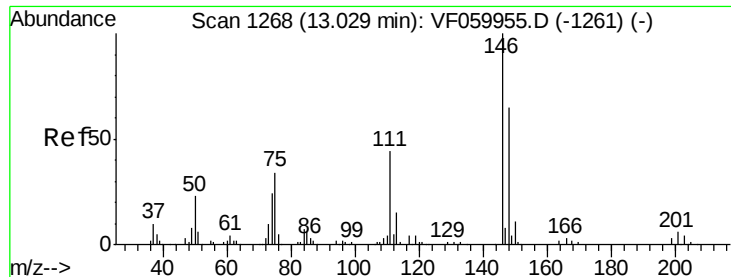
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#90
Hexachloroethane
Concen: 2.10 ug/l
RT: 13.01 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4040		
201	72.7	41.8	125.3	





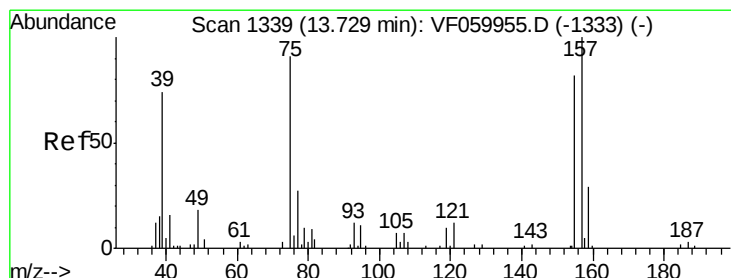
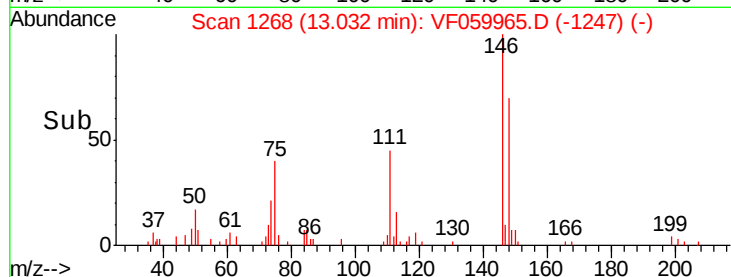
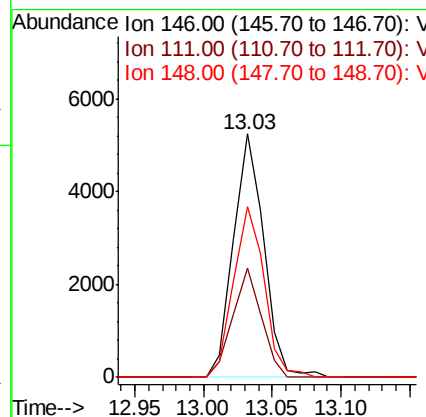
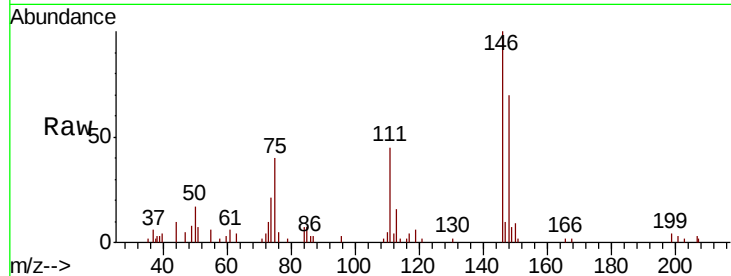
#91
 1,2-Dichlorobenzene
 Concen: 2.22 ug/l
 RT: 13.03 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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

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

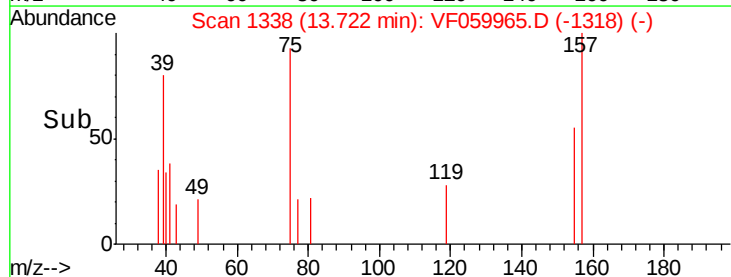
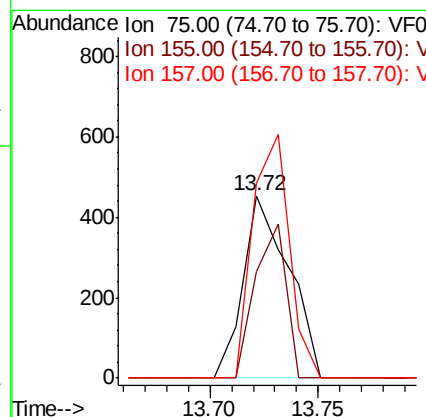
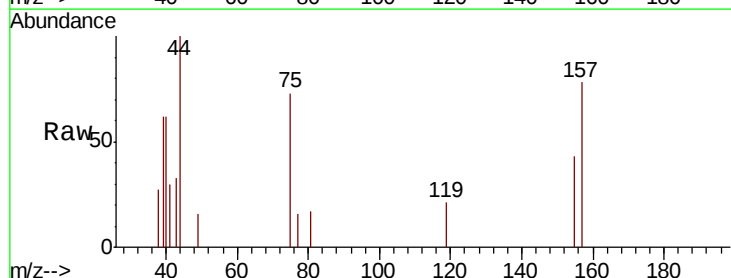
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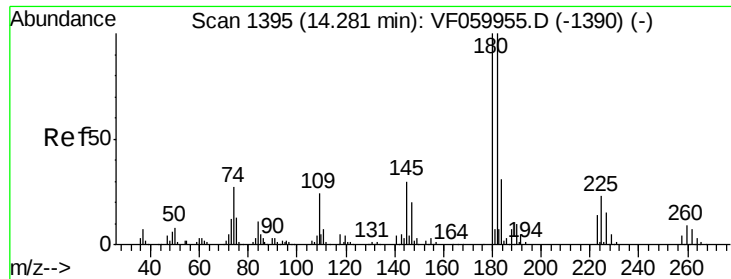
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.96 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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





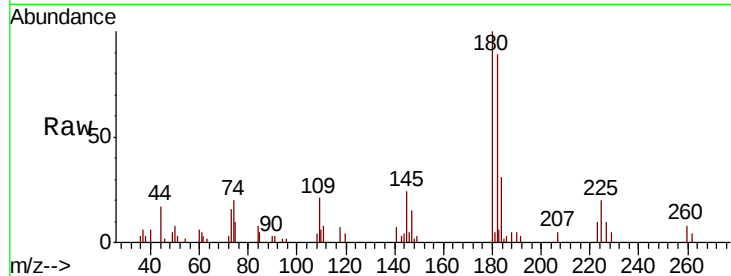
#93
 1,2,4-Trichlorobenzene
 Concen: 2.31 ug/l
 RT: 14.28 min Scan# 1395
 Delta R.T. 0.00 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

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

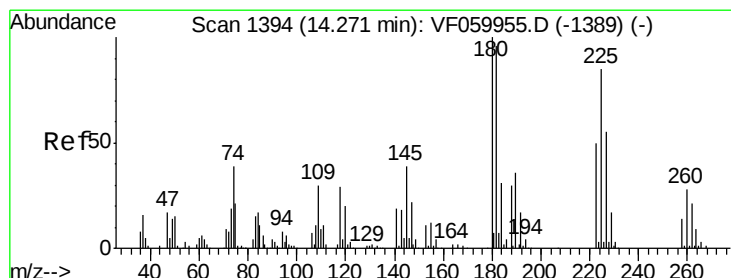
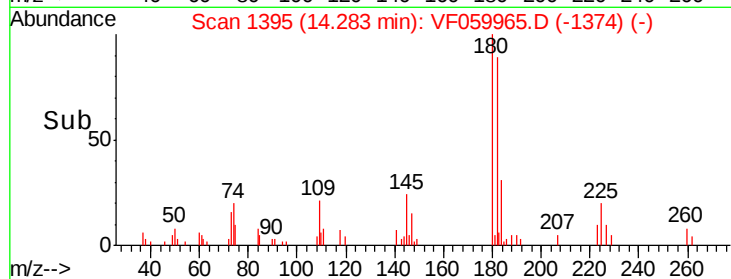
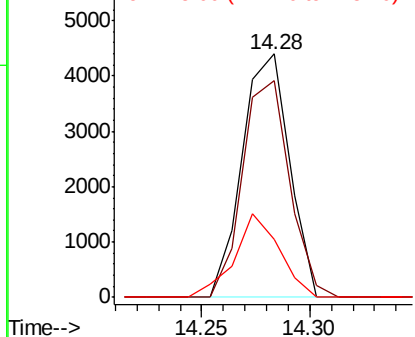
Tot Ion	Ratio	Lower	Upper
180	100		
182	89.2	50.2	150.7
145	24.0	14.9	44.9

Manual Integrations
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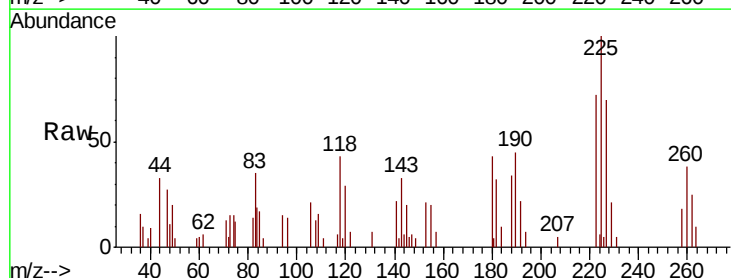


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

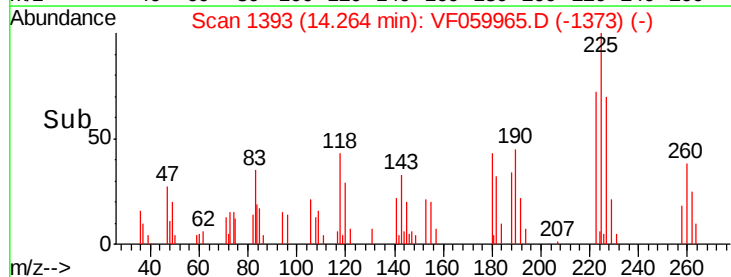
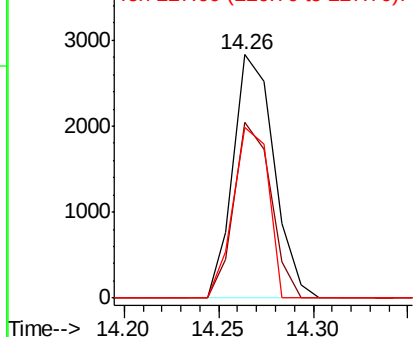


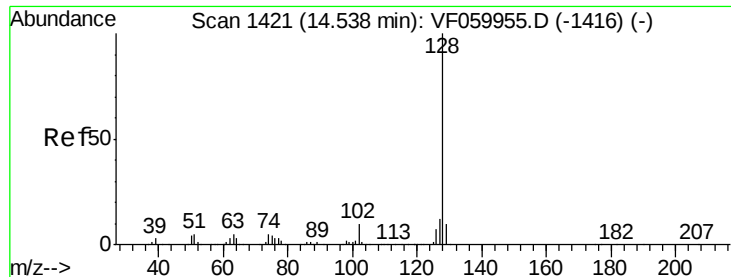
#94
 Hexachlorobutadiene
 Concen: 2.03 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF059965.D
 Acq: 15 Aug 2018 1:37

Tgt Ion	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





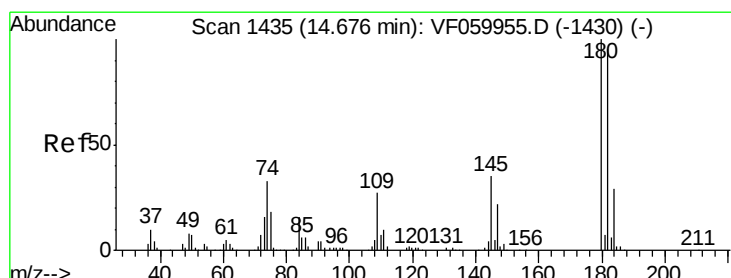
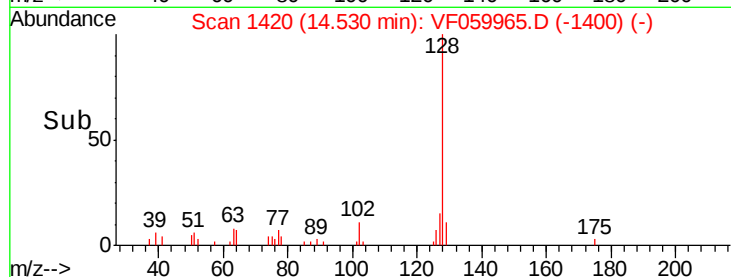
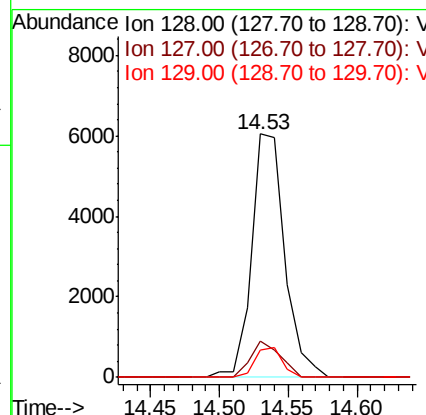
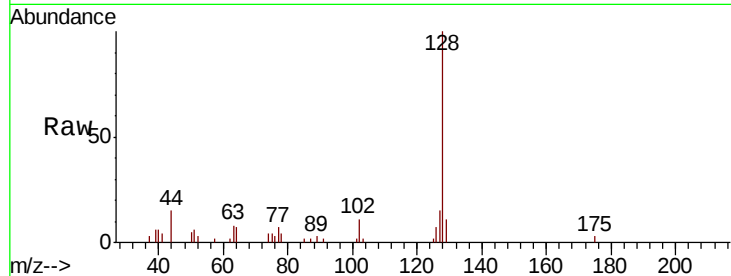
#95
Naphthalene
Concen: 2.13 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.01 min
Lab File: VF059965.D
Acq: 15 Aug 2018 1:37

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

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

Manual Integrations
APPROVED

apatel
8/16/2018 12:19:48 PM



#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	Ratio	Lower	Upper
180	100		
182	90.4	47.5	142.6
145	27.1	17.6	52.8

