

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081418\
 Data File : VF059963.D
 Acq On : 15 Aug 2018 00:42
 Operator : VA/AP
 Sample : J3762-01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Manual Integrations
 APPROVED

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 8/16/2018 12:17:16 PM

Quant Time: Aug 15 12:00:01 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	131151	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.79	114	186020	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.94	117	185158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.65	152	121124	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	114286	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
35) Dibromofluoromethane	4.32	113	96656	51.85	ug/l	0.01
Spiked Amount	50.000		Recovery	=	103.70%	
50) Toluene-d8	7.73	98	204304	49.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.40%	
62) 4-Bromofluorobenzene	11.53	95	112730	49.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.00	85	5018	2.58	ug/l	98
3) Chloromethane	1.10	50	2435	2.94	ug/l	90
4) Vinyl Chloride	1.16	62	2477	2.60	ug/l	96
5) Bromomethane	1.34	94	2178m	2.54	ug/l	
6) Chloroethane	1.43	64	1640	2.66	ug/l #	46
7) Trichlorofluoromethane	1.55	101	5660m	2.04	ug/l	
8) Diethyl Ether	1.71	74	1001	2.62	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.91	101	3204	2.28	ug/l	99
10) Methyl Iodide	1.97	142	5549	2.53	ug/l	97
11) Tert butyl alcohol	2.70	59	1417	15.56	ug/l #	64
12) 1,1-Dichloroethene	1.87	96	2402	2.31	ug/l #	76
13) Acrolein	2.11	56	651	27.89	ug/l #	81
15) Acrylonitrile	3.09	53	1840	13.32	ug/l #	59
16) Acetone	2.35	43	7118	15.64	ug/l	97
17) Carbon Disulfide	1.89	76	6364	2.39	ug/l	95
18) Methyl Acetate	2.47	43	1633	2.58	ug/l #	86
19) Methyl tert-butyl Ether	2.56	73	7536	2.52	ug/l	100
20) Methylene Chloride	2.29	84	6039m	1.28	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	2658	2.63	ug/l #	77
22) Diisopropyl ether	2.94	45	8806	2.59	ug/l #	95
23) Vinyl Acetate	3.35	43	18112	10.73	ug/l	98
24) 1,1-Dichloroethane	3.02	63	6032	2.51	ug/l #	89
25) 2-Butanone	4.54	43	6212	13.50	ug/l	98
26) 2,2-Dichloropropane	3.78	77	3980	2.55	ug/l #	67
27) cis-1,2-Dichloroethene	3.65	96	2409	2.16	ug/l	90
28) Bromochloromethane	3.91	49	2424	2.71	ug/l	92
29) Tetrahydrofuran	4.27	42	2758	17.44	ug/l #	89
30) Chloroform	4.07	83	7590	2.30	ug/l	86
31) Cyclohexane	3.91	56	2975m	2.47	ug/l	
32) 1,1,1-Trichloroethane	4.31	97	5885	2.17	ug/l #	80
36) 1,1-Dichloropropene	4.49	75	4845	2.34	ug/l #	85
38) Carbon Tetrachloride	4.20	117	7207	2.09	ug/l	85
39) Methylcyclohexane	5.64	83	3768	2.51	ug/l #	84
40) Benzene	4.83	78	8221	2.35	ug/l	100

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.93	41	1182	2.71	ug/l #	83
42) 1,2-Dichloroethane	5.14	62	6461	2.33	ug/l #	90
43) Isopropyl Acetate	7.14	43	2388	2.48	ug/l #	85
44) Trichloroethene	5.70	130	2843	2.11	ug/l	83
45) 1,2-Dichloropropane	6.42	63	2293	2.48	ug/l	99
46) Dibromomethane	6.28	93	1819	1.99	ug/l #	79
47) Bromodichloromethane	6.58	83	5113	1.94	ug/l #	93
48) Methyl methacrylate	6.89	41	1930	2.69	ug/l	91
49) 1,4-Dioxane	6.88	88	278	51.20	ug/l #	19
51) 4-Methyl-2-Pentanone	8.42	43	11083	11.87	ug/l #	89
52) Toluene	7.80	92	6620	2.56	ug/l	79
53) t-1,3-Dichloropropene	8.45	75	4826	2.24	ug/l #	83
54) cis-1,3-Dichloropropene	7.48	75	4400	2.12	ug/l #	70
55) 1,1,2-Trichloroethane	8.66	97	2722	3.07	ug/l #	65
56) Ethyl methacrylate	8.79	69	2083	2.19	ug/l	84
57) 1,3-Dichloropropane	9.03	76	3887	2.38	ug/l #	85
58) 2-Chloroethyl Vinyl ether	7.81	63	1386	10.83	ug/l	100
59) 2-Hexanone	9.65	43	10661	15.65	ug/l	100
60) Dibromochloromethane	8.88	129	3817	2.18	ug/l	91
61) 1,2-Dibromoethane	9.16	107	2495	2.26	ug/l	88
64) Tetrachloroethene	8.32	164	3498	2.43	ug/l	87
65) Chlorobenzene	9.96	112	7889	2.21	ug/l	89
66) 1,1,1,2-Tetrachloroethane	10.09	131	3969	2.30	ug/l	89
67) Ethyl Benzene	10.06	91	14569	2.31	ug/l	97
68) m/p-Xylenes	10.28	106	9408	4.43	ug/l	77
69) o-Xylene	10.86	106	5491	2.38	ug/l	64
70) Styrene	10.91	104	7525	2.20	ug/l #	86
71) Bromoform	10.90	173	2336	2.17	ug/l	95
73) Isopropylbenzene	11.24	105	15125	1.99	ug/l	100
74) N-amyl acetate	11.48	43	3979	2.37	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.80	83	3046	2.38	ug/l	98
76) 1,2,3-Trichloropropane	11.90	75	2823	2.56	ug/l	96
77) Bromobenzene	11.61	156	4773	2.39	ug/l	83
78) n-propylbenzene	11.70	91	21455	2.40	ug/l	99
79) 2-Chlorotoluene	11.83	91	13547	2.42	ug/l	96
80) 1,3,5-Trimethylbenzene	11.93	105	14476	2.04	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.99	75	1814	4.02	ug/l #	15
82) 4-Chlorotoluene	12.01	91	13850	2.24	ug/l	87
83) tert-Butylbenzene	12.23	119	15036	2.15	ug/l	97
84) 1,2,4-Trimethylbenzene	12.30	105	16070	2.25	ug/l	97
85) sec-Butylbenzene	12.40	105	20244	2.27	ug/l	95
86) p-Isopropyltoluene	12.55	119	16049	2.05	ug/l	92
87) 1,3-Dichlorobenzene	12.57	146	10481	2.76	ug/l	93
88) 1,4-Dichlorobenzene	12.66	146	10374	2.78	ug/l	95
89) n-Butylbenzene	12.93	91	15771	2.09	ug/l	96
90) Hexachloroethane	13.00	117	4532	2.33	ug/l	65
91) 1,2-Dichlorobenzene	13.03	146	9356	2.54	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.72	75	670	1.93	ug/l	82
93) 1,2,4-Trichlorobenzene	14.28	180	7160	2.43	ug/l	92
94) Hexachlorobutadiene	14.27	225	4869	2.31	ug/l	89

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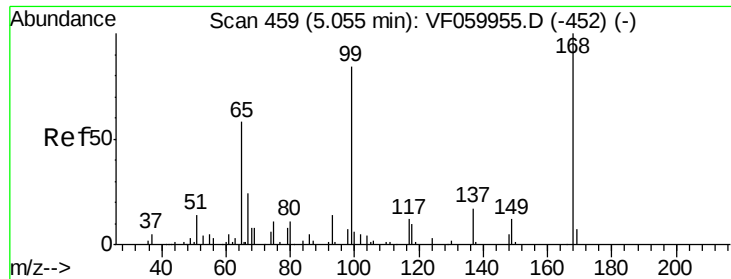
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	14.53	128	10923	2.27	ug/l	98
96) 1,2,3-Trichlorobenzene	14.68	180	6773	2.41	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:168 Resp: 131151

Ion Ratio Lower Upper

168 100

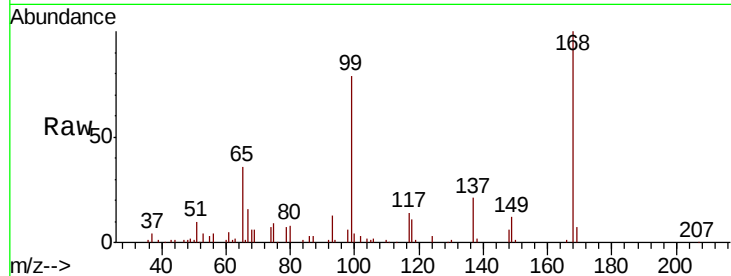
99 78.8 67.4 101.0

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

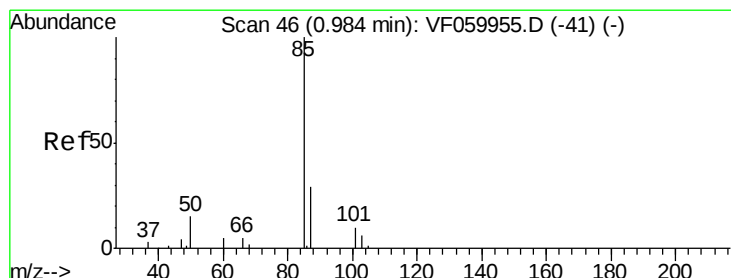
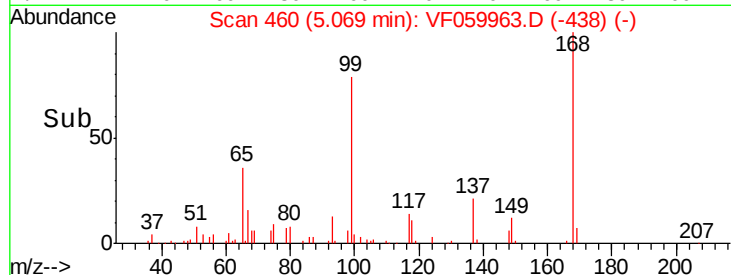
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 2.58 ug/l

RT: 1.00 min Scan# 47

Delta R.T. 0.01 min

Lab File: VF059963.D

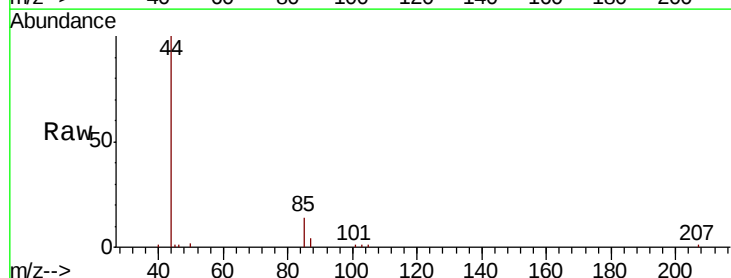
Acq: 15 Aug 2018 00:42

Tgt Ion: 85 Resp: 5018

Ion Ratio Lower Upper

85 100

87 27.8 14.4 43.4



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

2000

1500

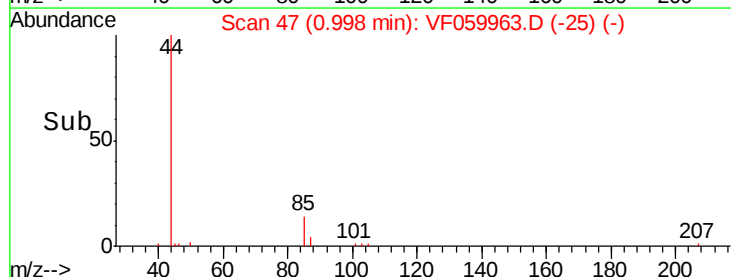
1000

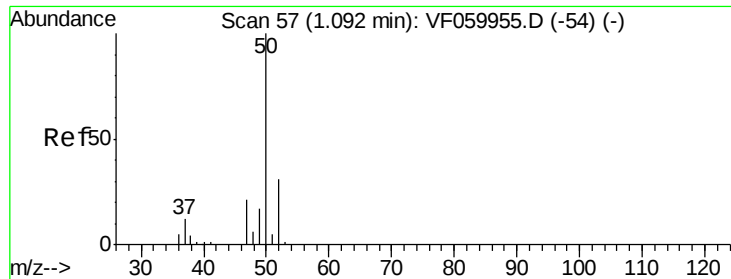
500

0

Time-->

0.90 0.95 1.00 1.05 1.10





#3

Chloromethane

Concen: 2.94 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 50 Resp: 2435

Ion Ratio Lower Upper

50 100

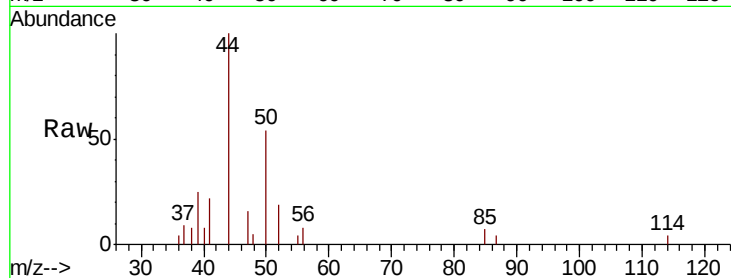
52 35.7 24.2 36.2

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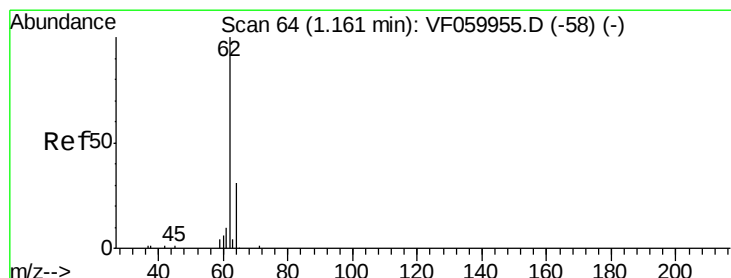
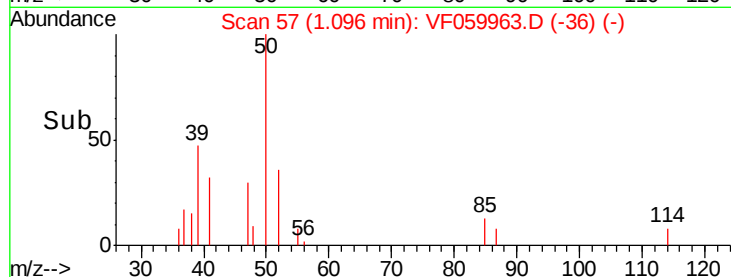
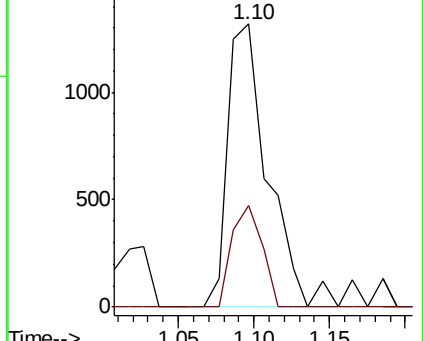
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 2.60 ug/l

RT: 1.16 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF059963.D

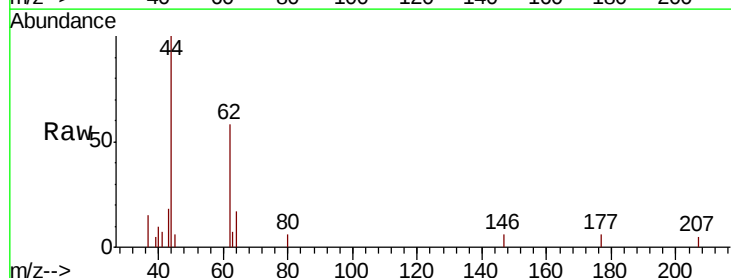
Acq: 15 Aug 2018 00:42

Tgt Ion: 62 Resp: 2477

Ion Ratio Lower Upper

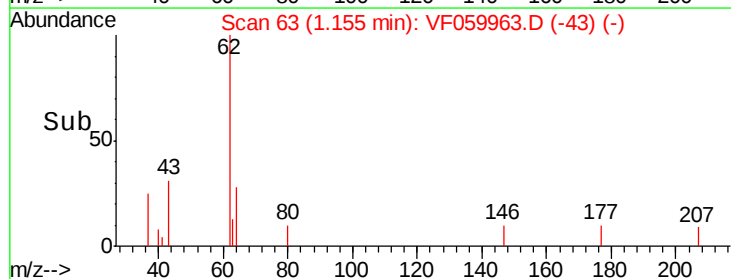
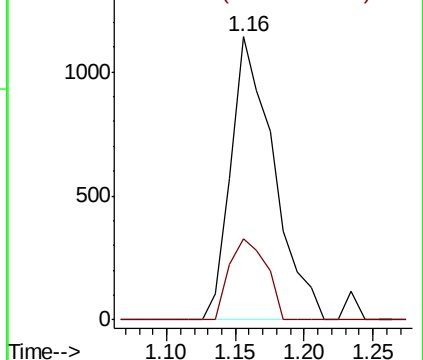
62 100

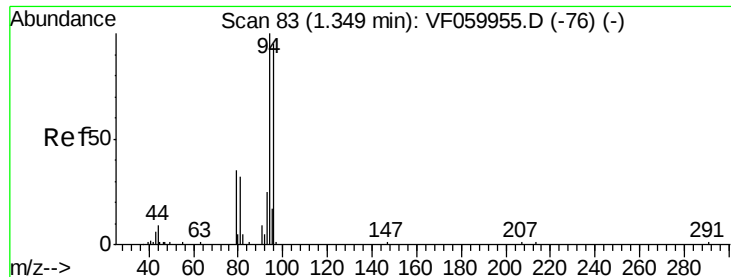
64 28.5 24.7 37.1



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 2.54 ug/l m

RT: 1.34 min Scan# 82

Delta R.T. -0.01 min

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LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 94 Resp: 2178

Ion Ratio Lower Upper

94 100

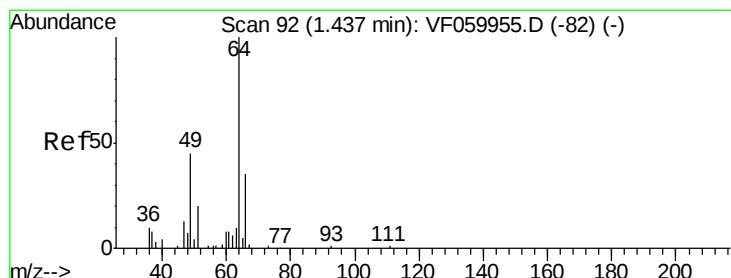
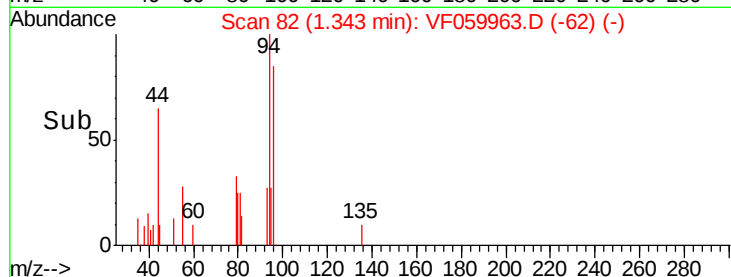
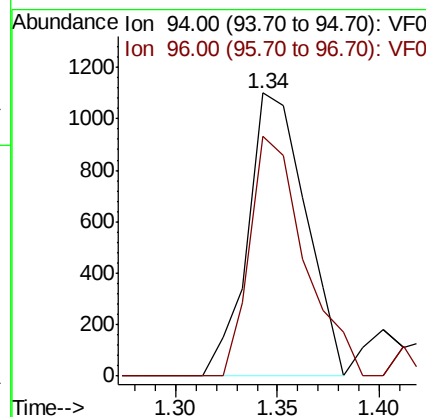
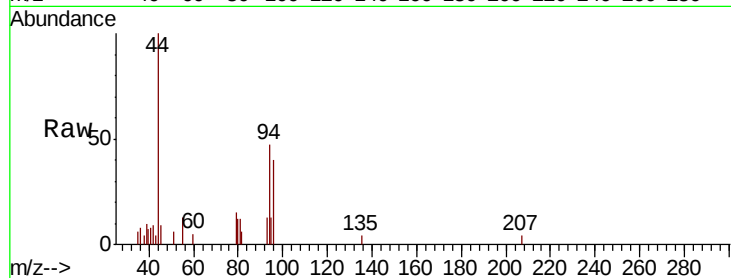
96 84.9 76.3 114.5

Manual Integrations

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#6

Chloroethane

Concen: 2.66 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF059963.D

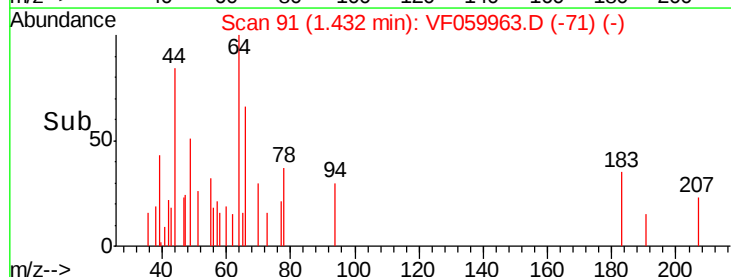
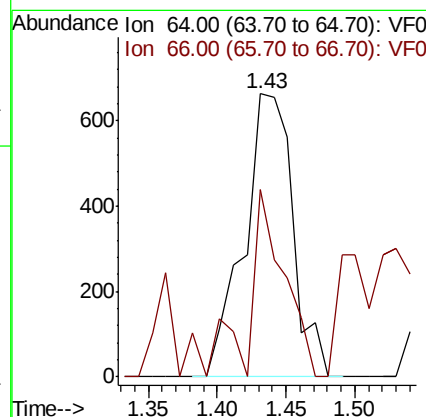
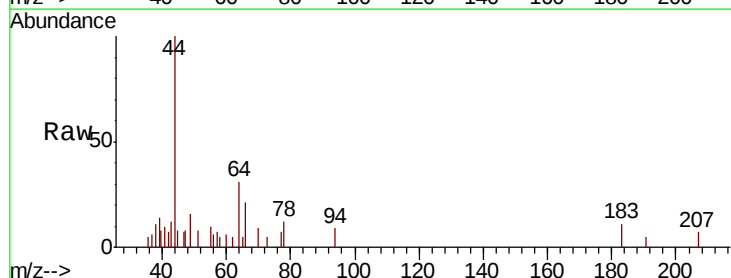
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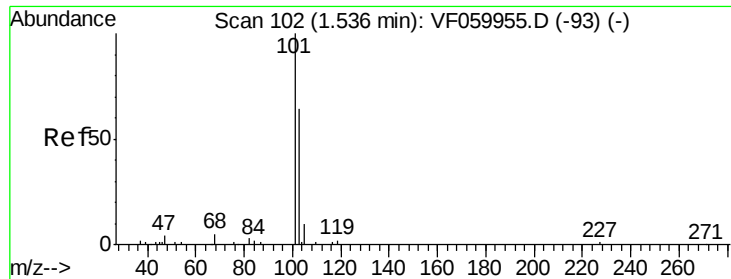
Tgt Ion: 64 Resp: 1640

Ion Ratio Lower Upper

64 100

66 66.4 28.2 42.2#





#7

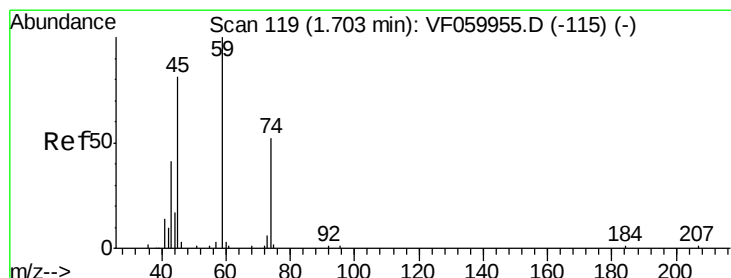
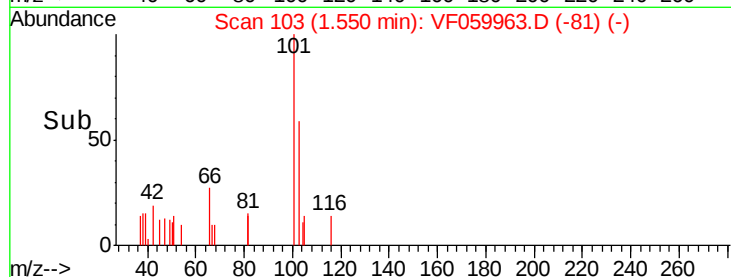
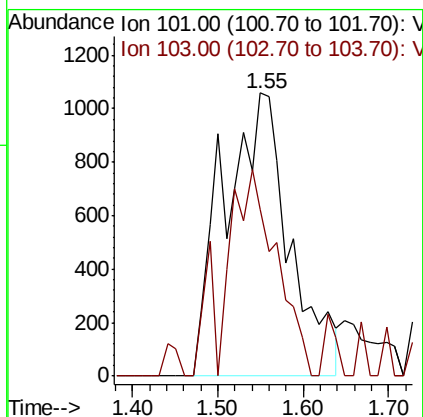
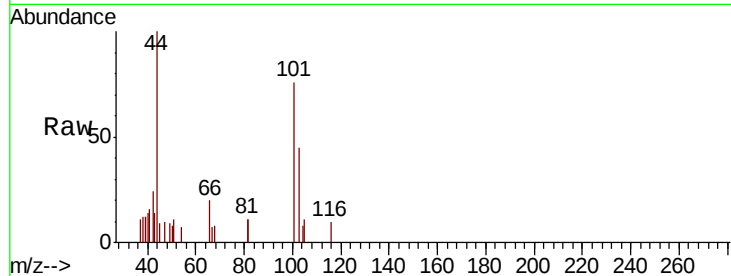
Trichlorofluoromethane
 Concen: 2.04 ug/l m
 RT: 1.55 min Scan# 103
 Delta R.T. 0.01 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

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Tot Ion:101 Resp: 5660
 Ion Ratio Lower Upper
 101 100
 103 59.1 51.6 77.4

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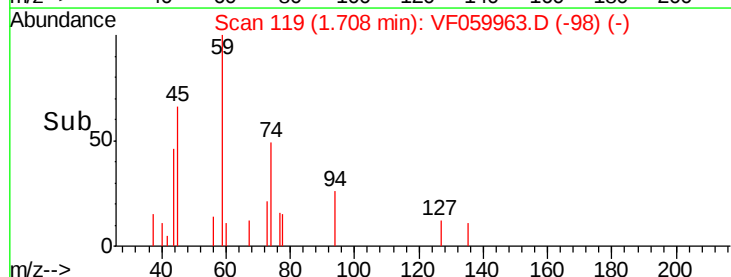
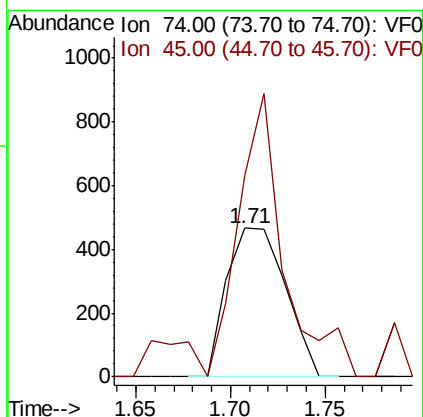
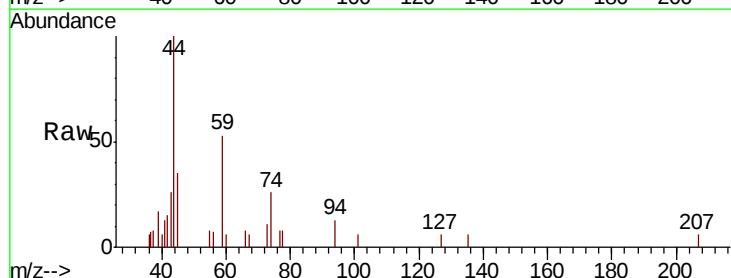
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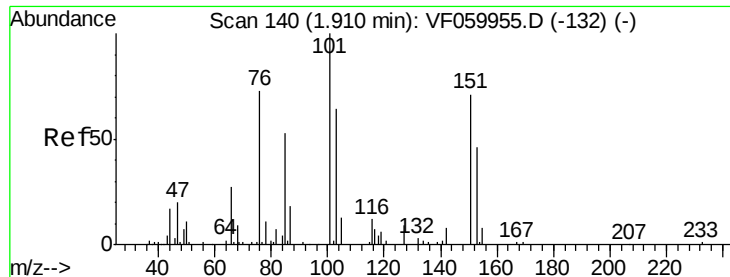


#8

Diethyl Ether
 Concen: 2.62 ug/l
 RT: 1.71 min Scan# 119
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion: 74 Resp: 1001
 Ion Ratio Lower Upper
 74 100
 45 135.1 77.5 232.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.28 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

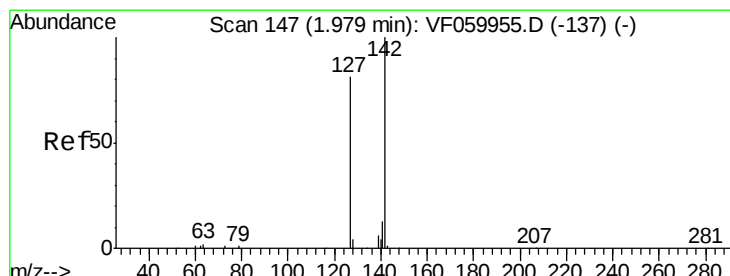
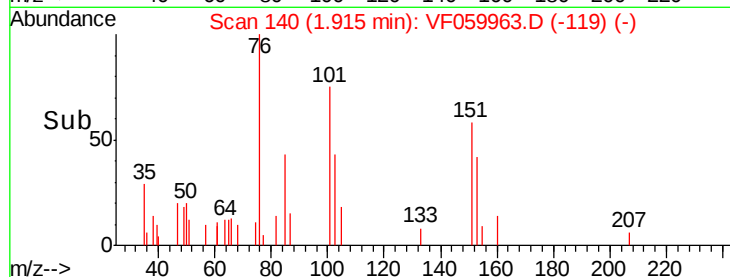
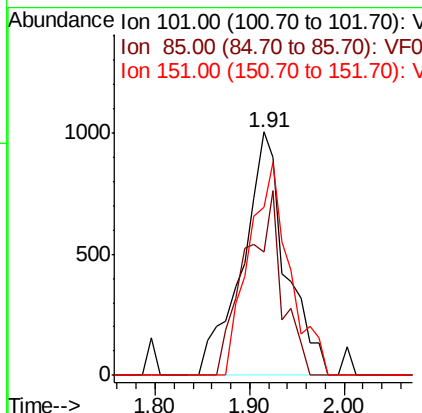
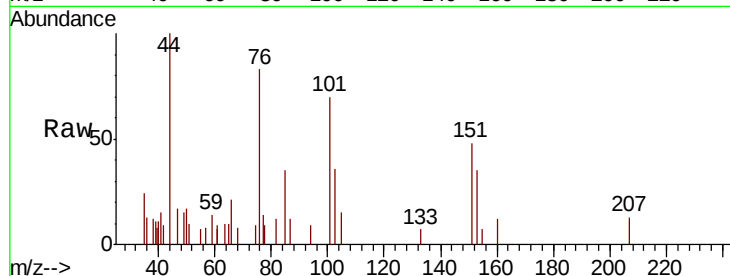
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	101	Resp:	3204
Ion Ratio	Lower	Upper	
101	100		
85	50.8	42.1	63.1
151	69.2	55.4	83.0

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#10

Methyl Iodide

Concen: 2.53 ug/l

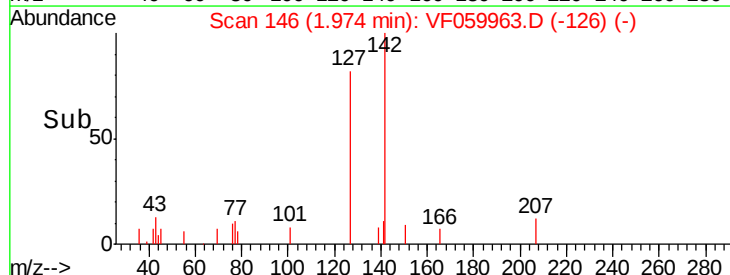
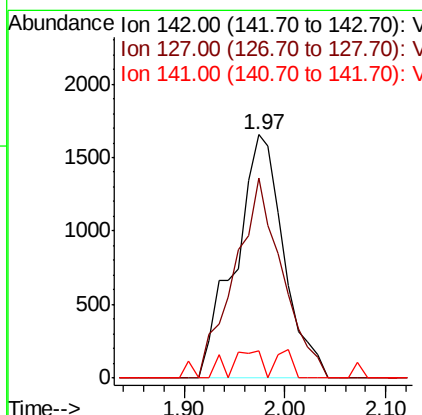
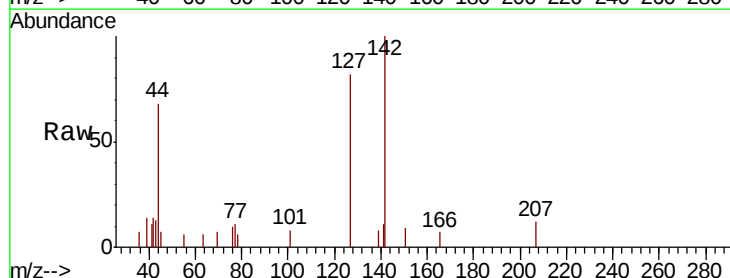
RT: 1.97 min Scan# 146

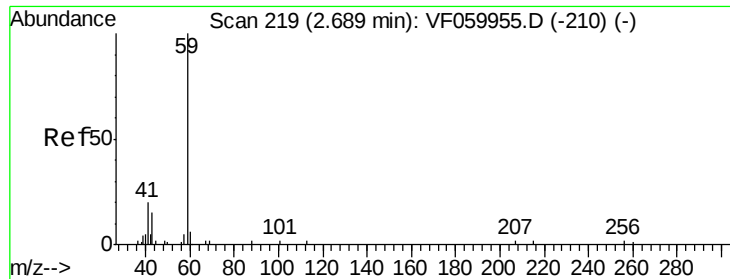
Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	142	Resp:	5549
Ion Ratio	Lower	Upper	
142	100		
127	82.4	64.5	96.7
141	11.2	10.8	16.2





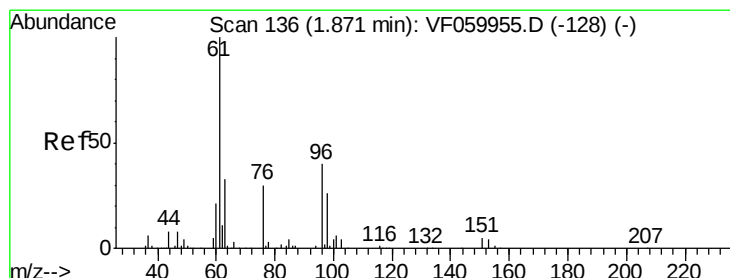
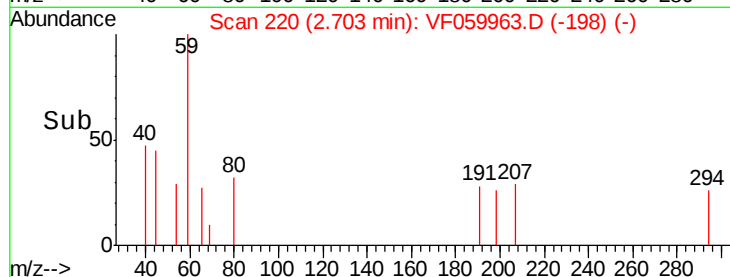
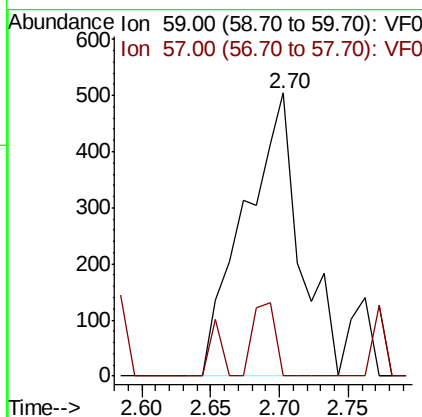
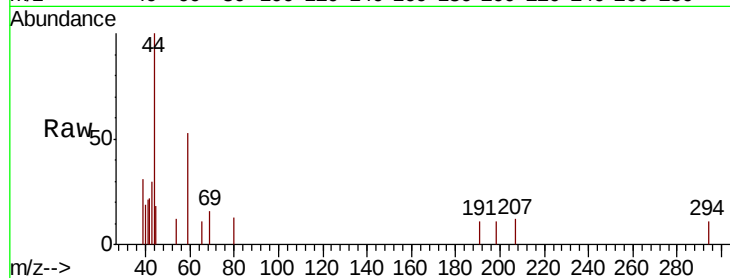
#11
Tert butyl alcohol
Concen: 15.56 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 59 Resp: 1417
Ion Ratio Lower Upper
59 100
57 0.0 12.0 18.0#

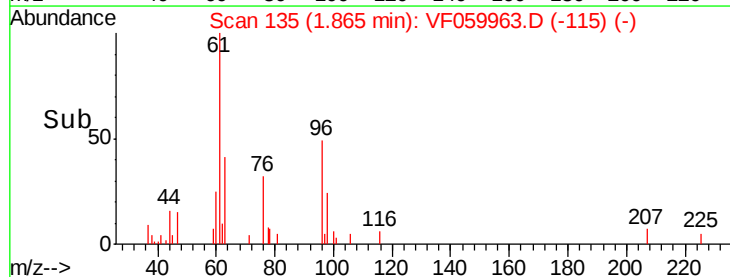
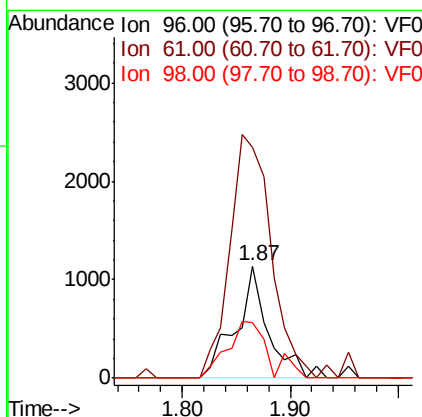
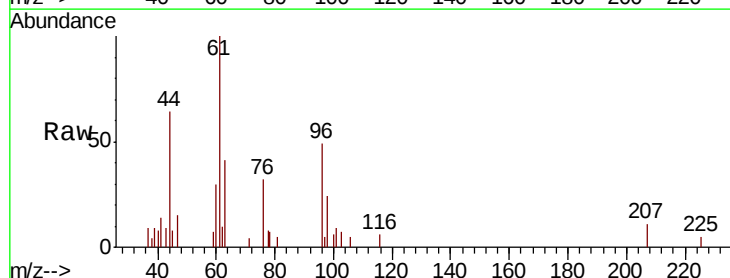
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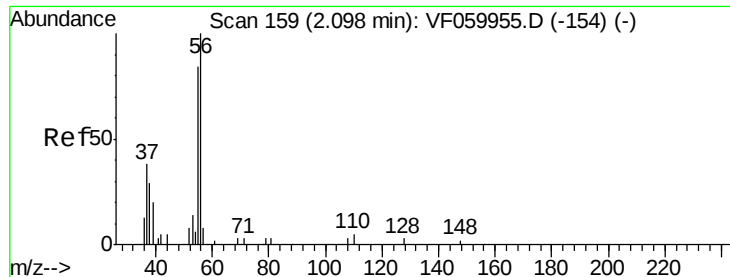
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#12
1,1-Dichloroethene
Concen: 2.31 ug/l
RT: 1.87 min Scan# 135
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 96 Resp: 2402
Ion Ratio Lower Upper
96 100
61 206.0 201.0 301.4
98 50.2 51.9 77.9#





#13

Acrolein

Concen: 27.89 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 56 Resp: 651

Ion Ratio Lower Upper

56 100

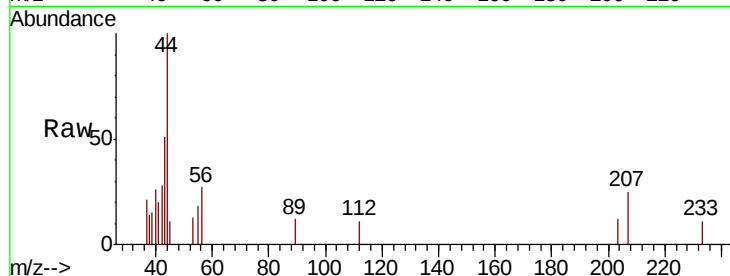
55 67.4 67.4 101.2#

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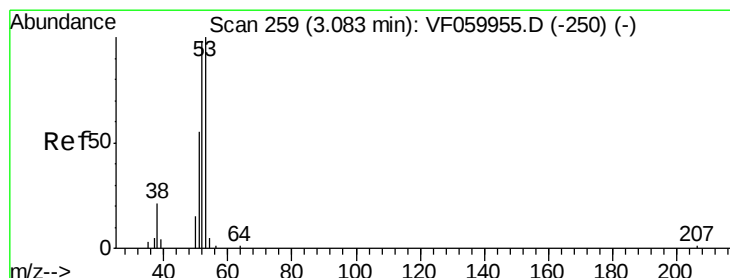
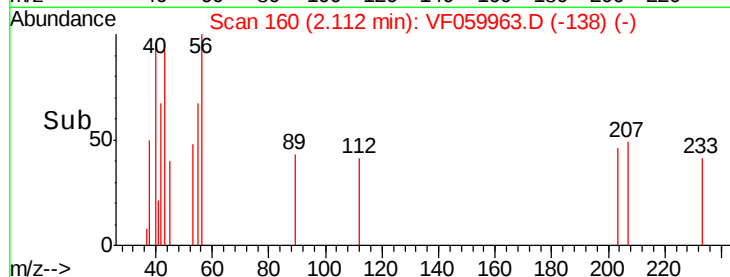
Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.11

2.15

Time-->



#15

Acrylonitrile

Concen: 13.32 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

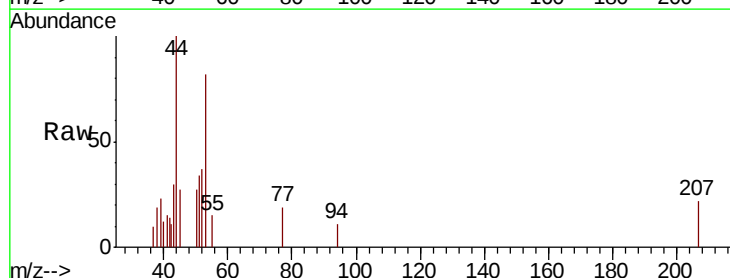
Tgt Ion: 53 Resp: 1840

Ion Ratio Lower Upper

53 100

52 45.0 78.1 117.1#

51 41.4 44.2 66.4#



Abundance Ion 53.00 (52.70 to 53.70): VF0

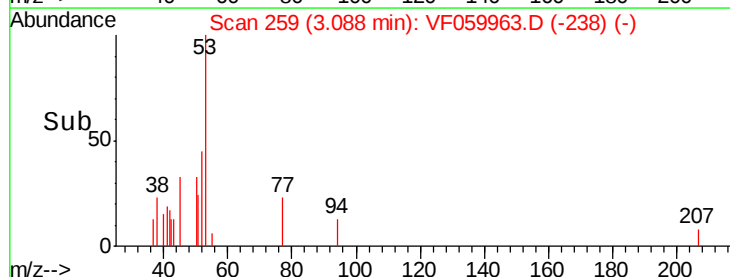
Ion 52.00 (51.70 to 52.70): VF0

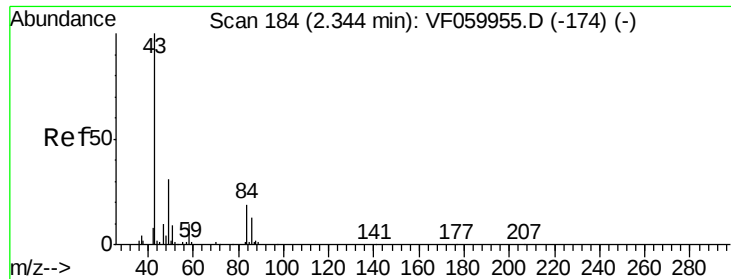
Ion 51.00 (50.70 to 51.70): VF0

3.09

3.20

Time-->





#16

Acetone

Concen: 15.64 ug/l

RT: 2.35 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 43 Resp: 7118

Ion Ratio Lower Upper

43 100

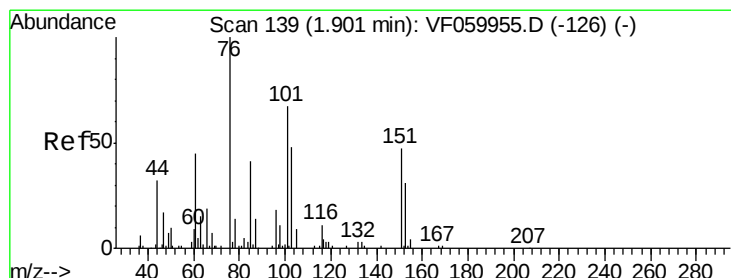
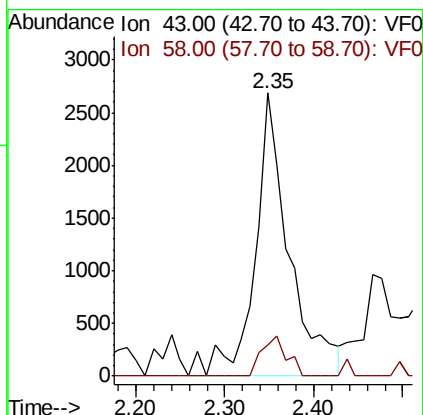
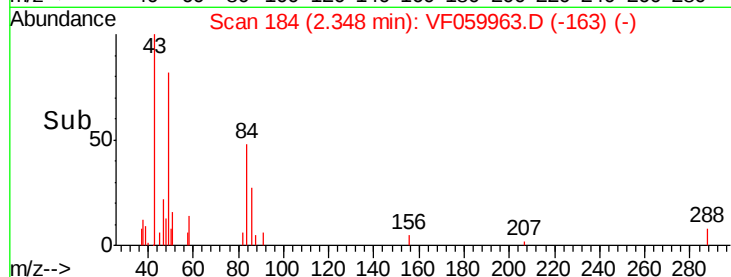
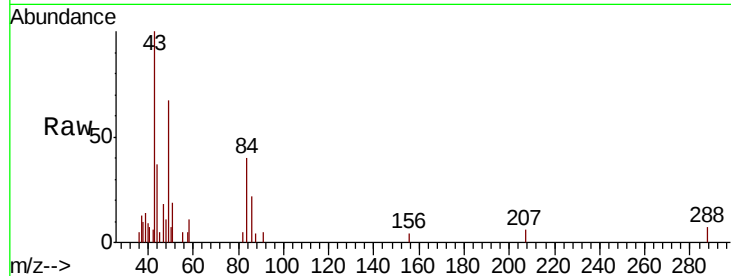
58 11.2 8.1 12.1

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#17

Carbon Disulfide

Concen: 2.39 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF059963.D

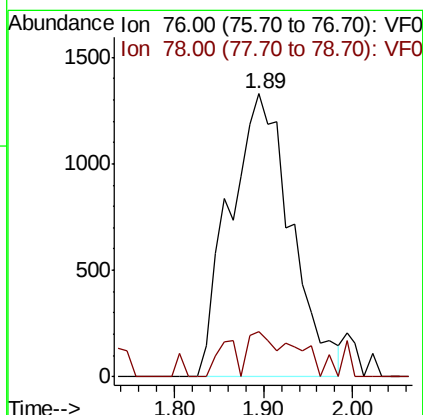
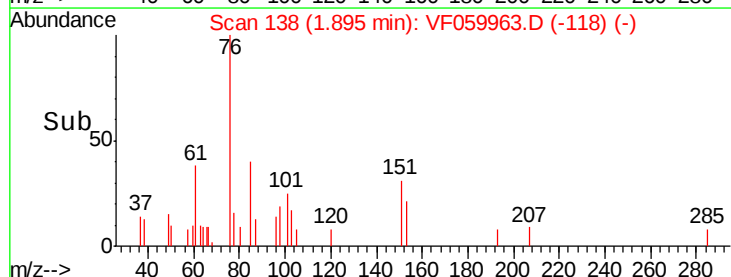
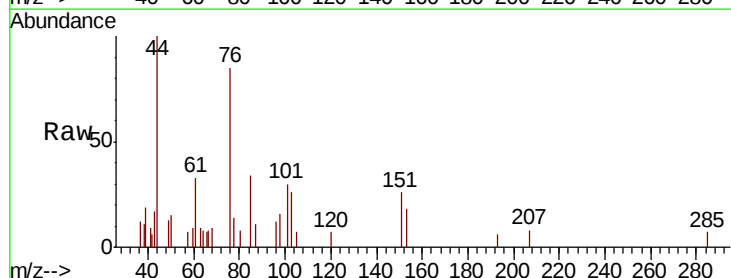
Acq: 15 Aug 2018 00:42

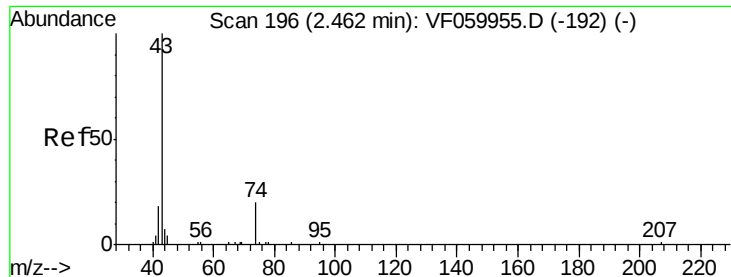
Tgt Ion: 76 Resp: 6364

Ion Ratio Lower Upper

76 100

78 16.0 11.4 17.0





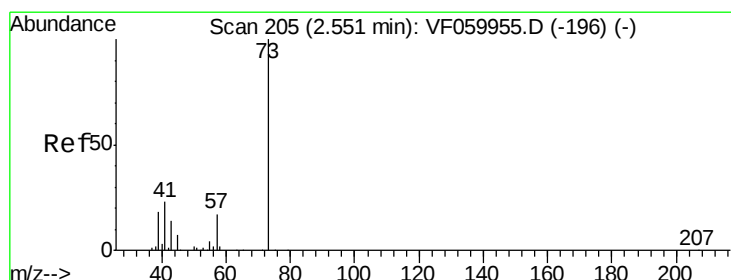
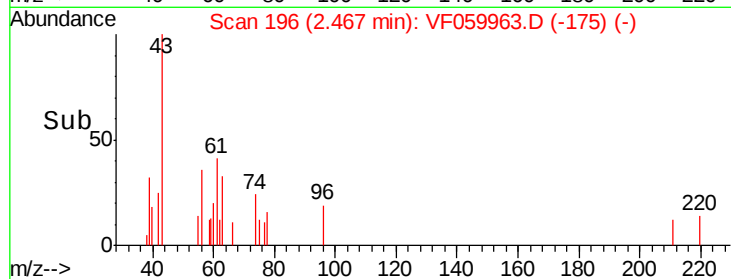
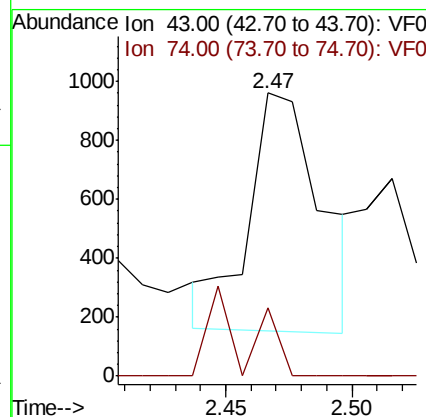
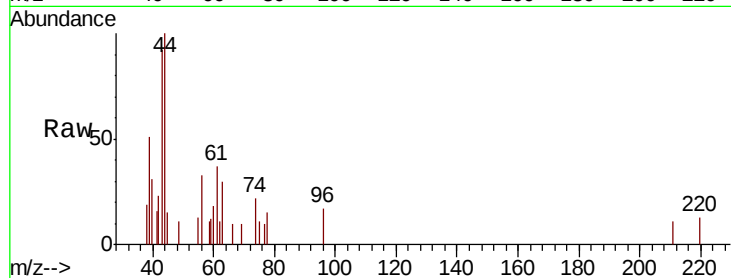
#18
Methvl Acetate
Concen: 2.58 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 43 Resp: 1633
Ion Ratio Lower Upper
43 100
74 24.0 14.3 21.5#

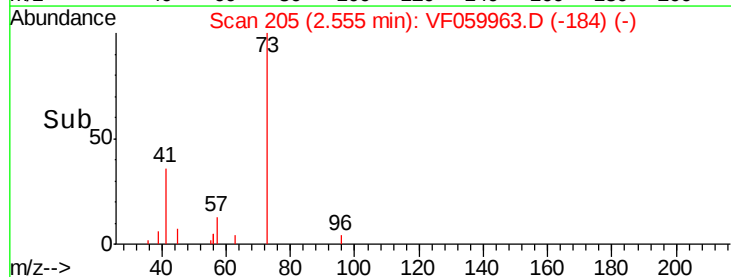
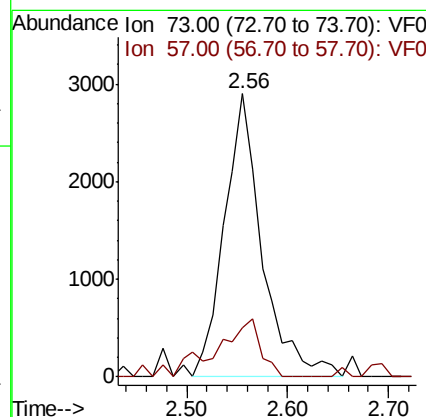
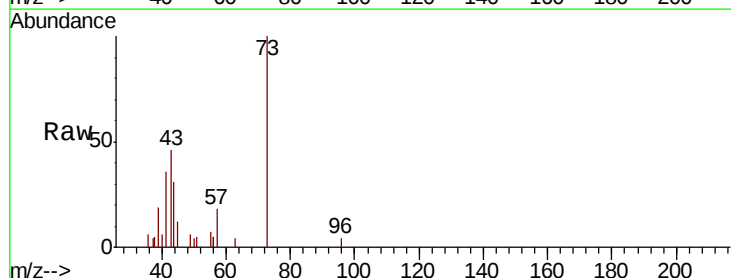
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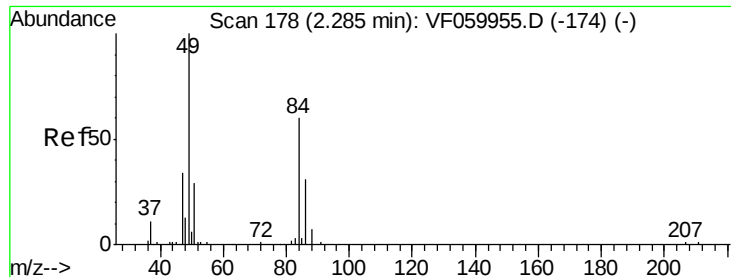
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#19
Methyl tert-butyl Ether
Concen: 2.52 ug/l
RT: 2.56 min Scan# 205
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 73 Resp: 7536
Ion Ratio Lower Upper
73 100
57 17.6 14.0 21.0





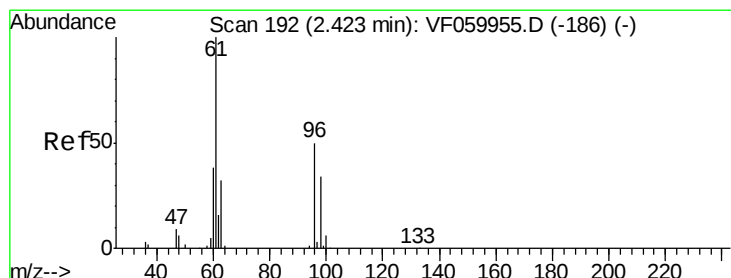
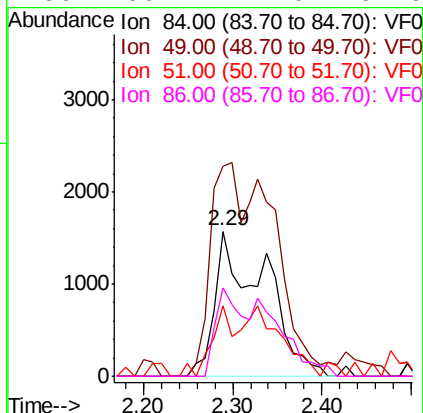
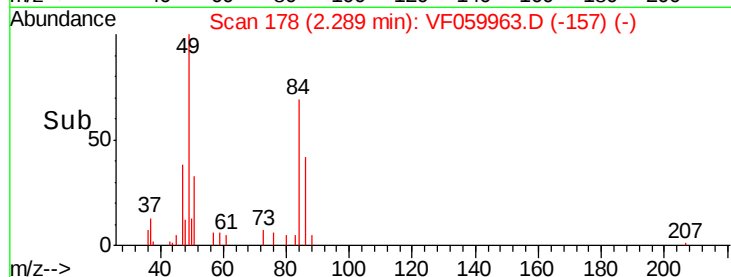
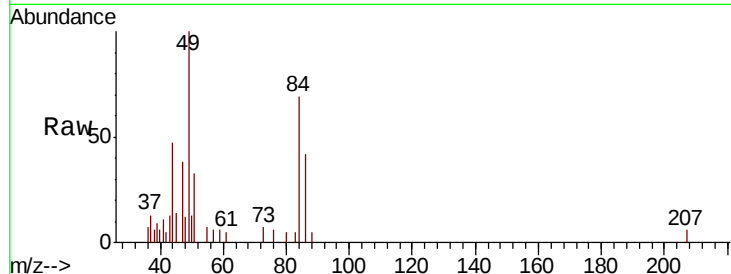
#20
Methylene Chloride
Concen: 1.28 ug/l m
RT: 2.29 min Scan# 178
Delta R.T. 0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	84	Resp:	6039
Ion	Ratio	Lower	Upper
84	100		
49	145.2	134.8	202.2
51	48.4	39.8	59.6
86	60.7	41.0	61.6

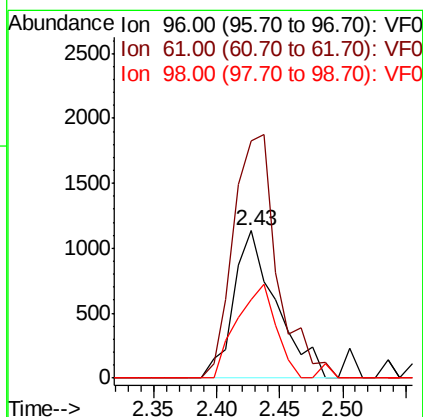
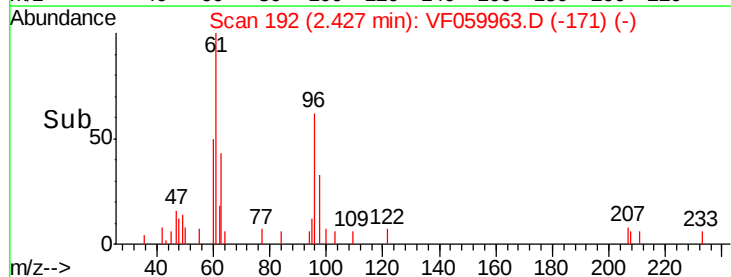
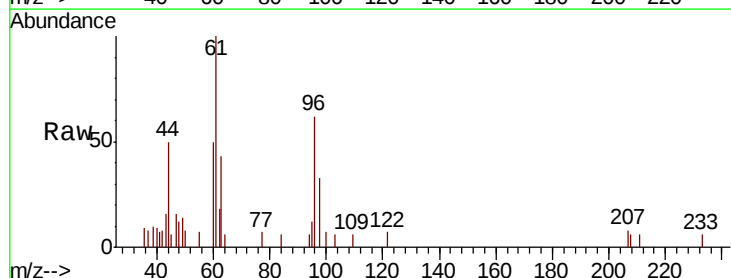
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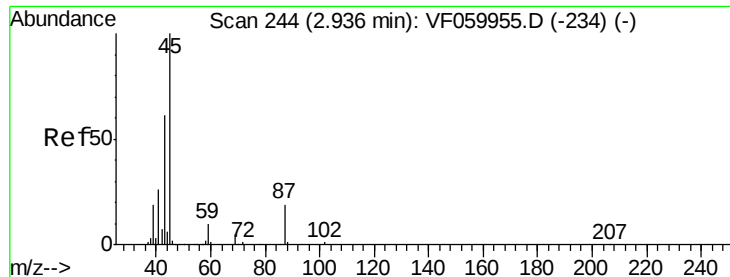
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#21
trans-1,2-Dichloroethene
Concen: 2.63 ug/l
RT: 2.43 min Scan# 192
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion:	96	Resp:	2658
Ion	Ratio	Lower	Upper
96	100		
61	160.9	159.5	239.3
98	53.7	53.8	80.6#





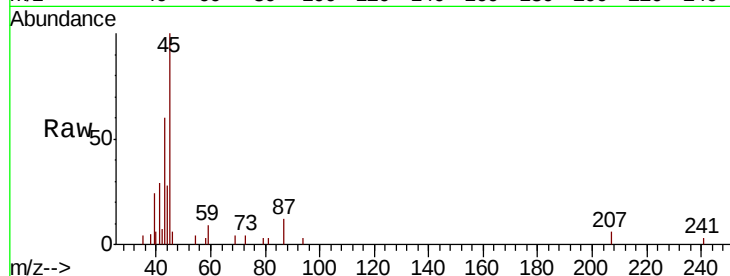
#22
Diisopropyl ether
Concen: 2.59 ug/l
RT: 2.94 min Scan# 244
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

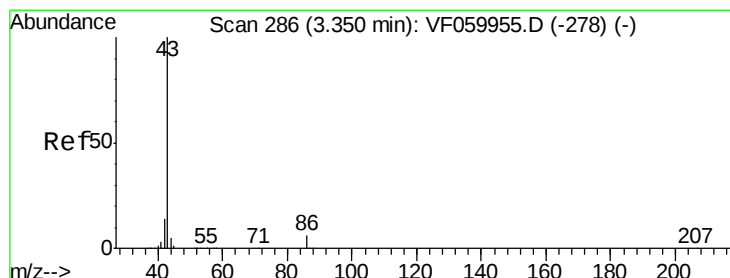
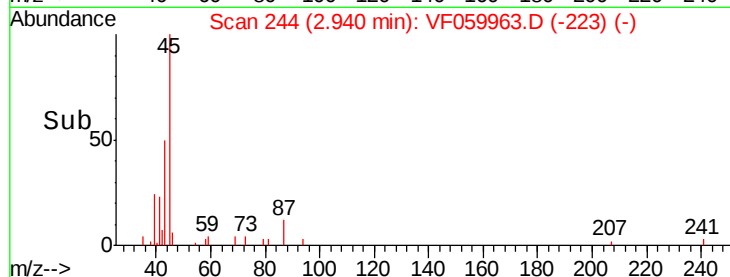
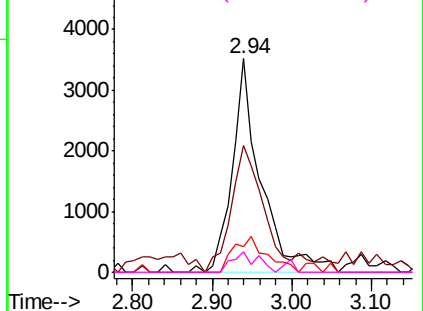
Tot Ion:	45	Resp:	8806
Ion	Ratio	Lower	Upper
45	100		
43	59.6	48.7	73.1
87	12.1	15.3	22.9
59	9.4	8.5	12.7

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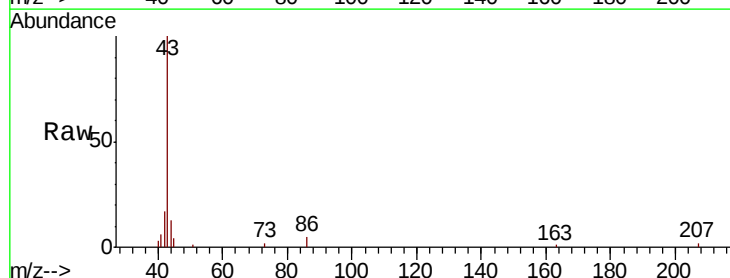


Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0

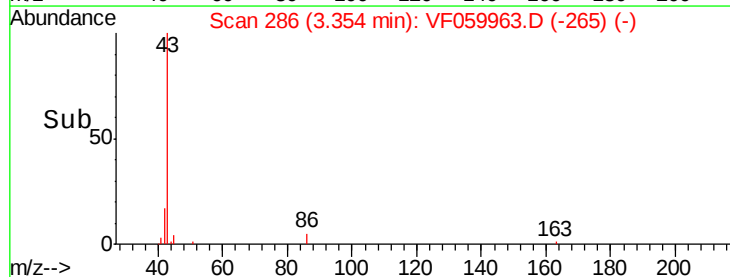
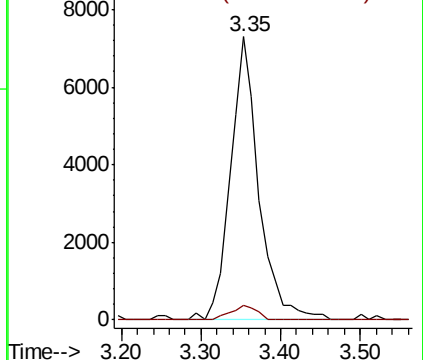


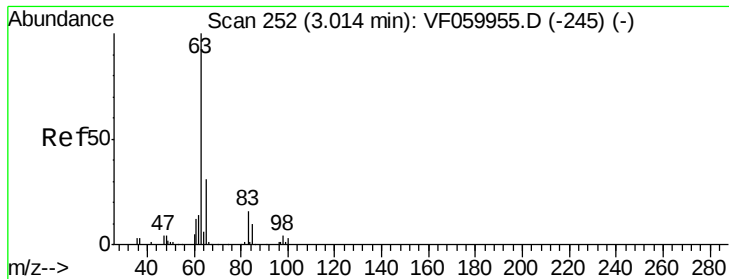
#23
Vinyl Acetate
Concen: 10.73 ug/l
RT: 3.35 min Scan# 286
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion:	43	Resp:	18112
Ion	Ratio	Lower	Upper
43	100		
86	5.3	4.9	7.3



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 2.51 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

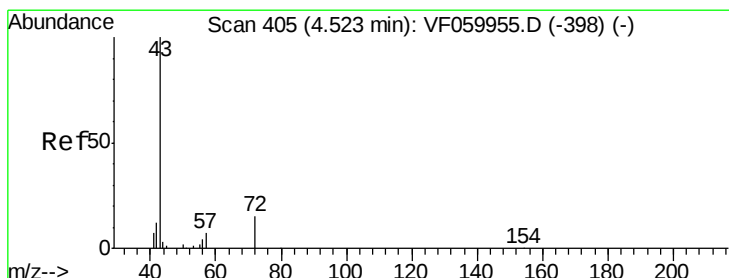
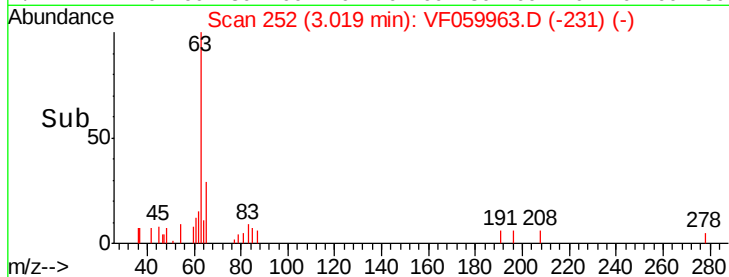
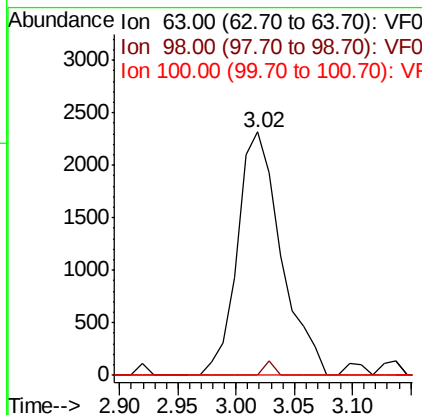
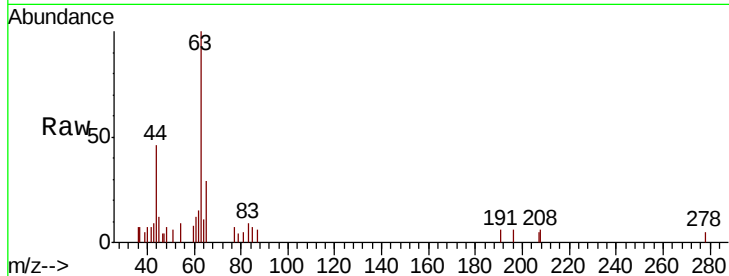
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	63	Resp:	6032
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: 13.50 ug/l

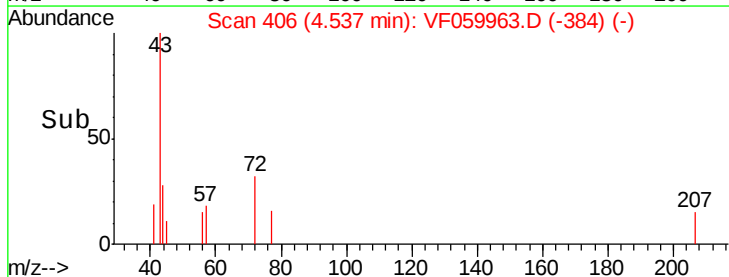
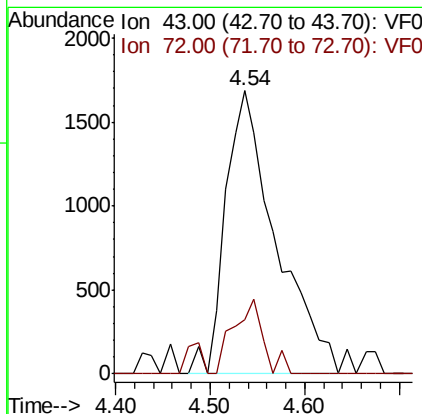
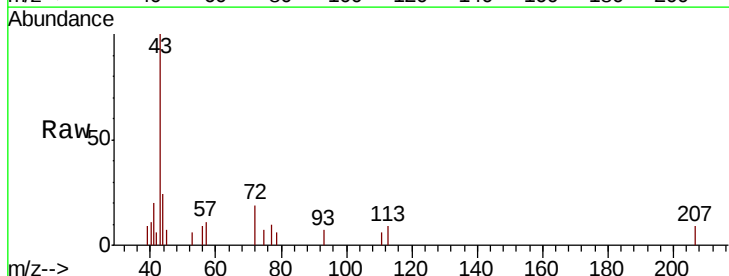
RT: 4.54 min Scan# 406

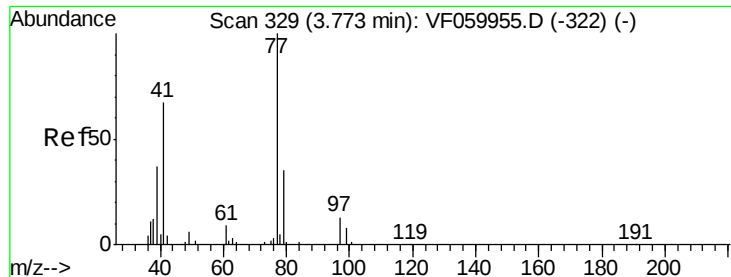
Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	43	Resp:	6212
Ion Ratio	Lower	Upper	
43	100		
72	19.2	14.6	22.0





#26

2,2-Dichloropropane

Concen: 2.55 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 77 Resp: 3980

Ion Ratio Lower Upper

77 100

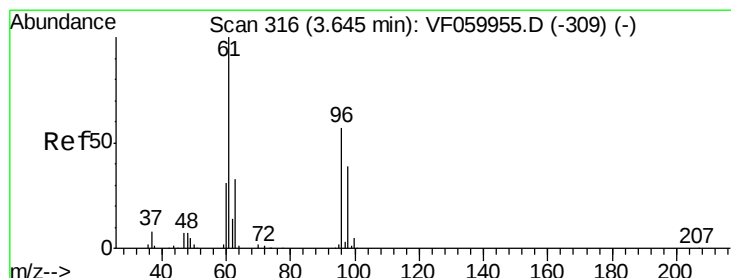
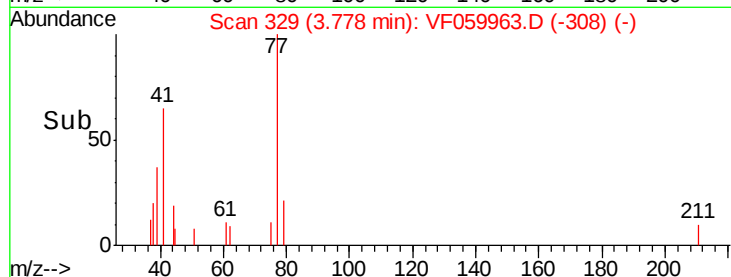
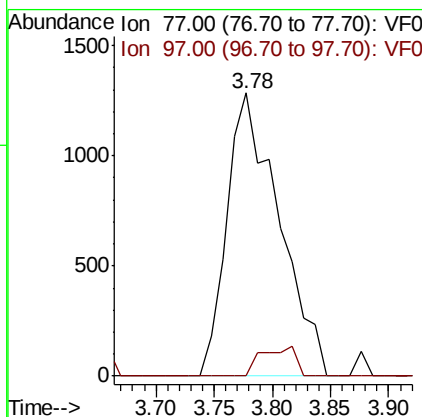
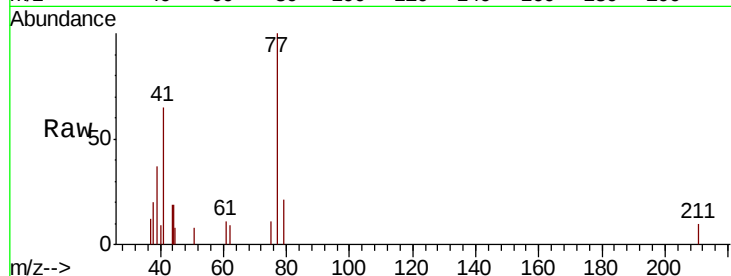
97 0.0 6.6 19.7#

Manual Integrations

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#27

cis-1,2-Dichloroethene

Concen: 2.16 ug/l

RT: 3.65 min Scan# 316

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

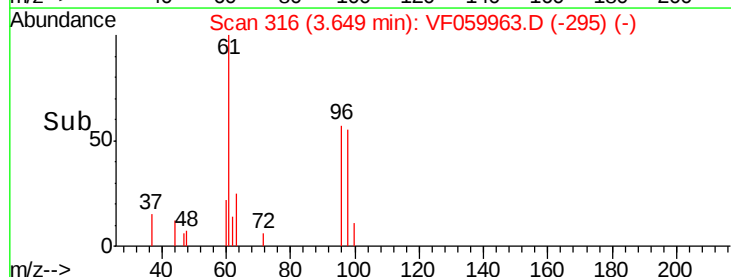
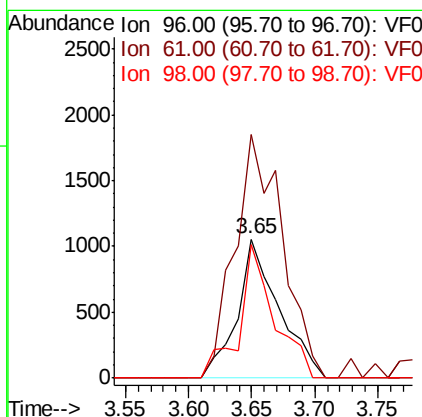
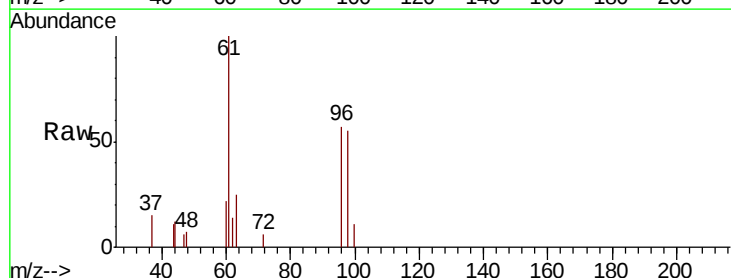
Tgt Ion: 96 Resp: 2409

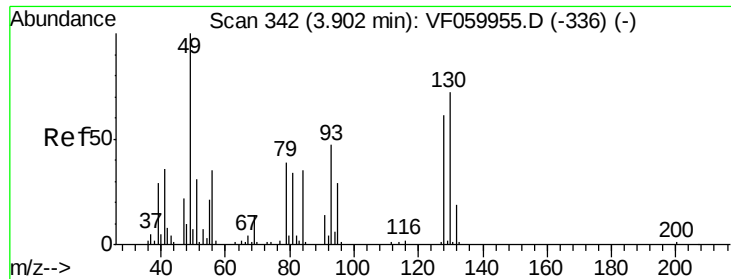
Ion Ratio Lower Upper

96 100

61 174.9 0.0 349.4

98 96.0 0.0 134.6





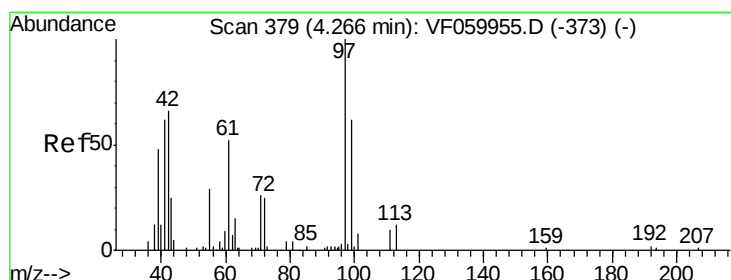
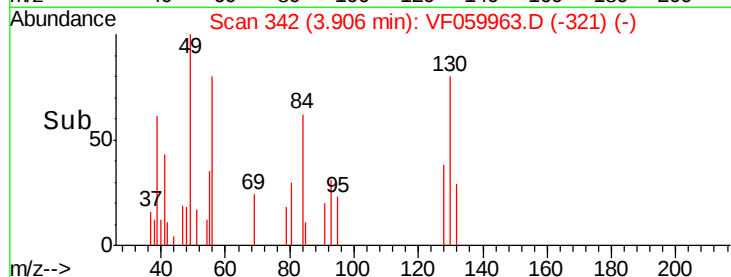
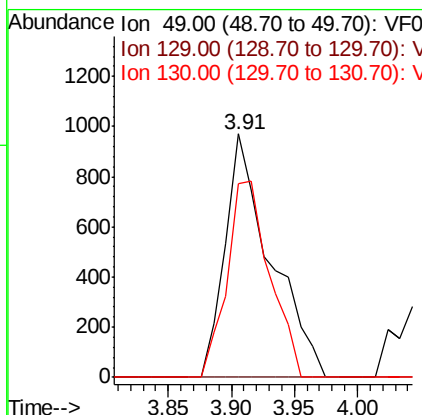
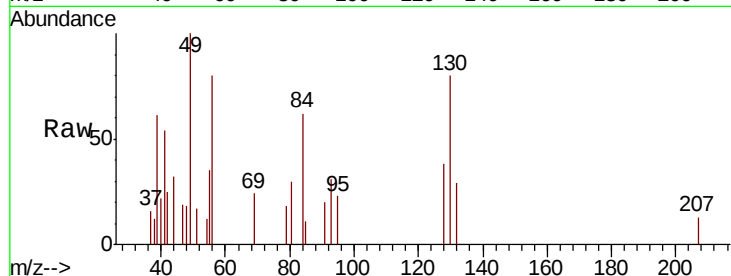
#28
Bromochloromethane
Concen: 2.71 ug/l
RT: 3.91 min Scan# 342
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 49 Resp: 2424
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 79.7 58.1 87.1

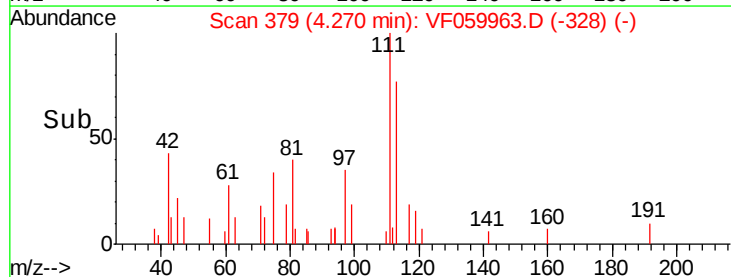
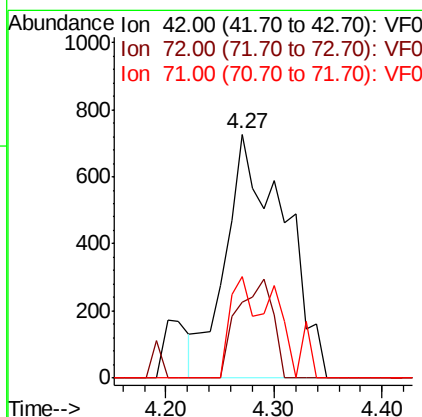
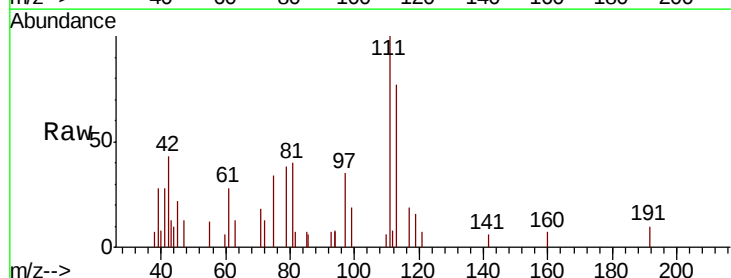
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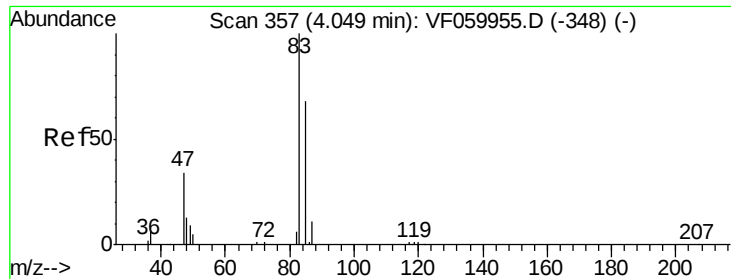
apatel
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#29
Tetrahydrofuran
Concen: 17.44 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 42 Resp: 2758
Ion Ratio Lower Upper
42 100
72 24.3 27.7 41.5#
71 33.1 28.2 42.4





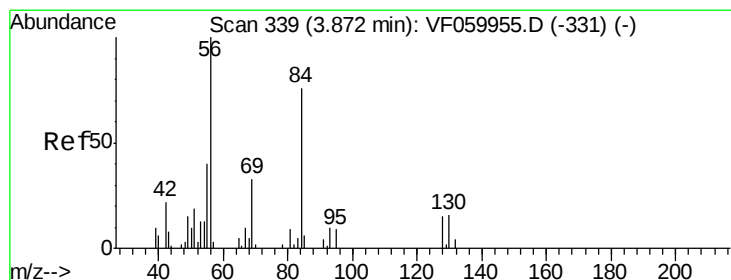
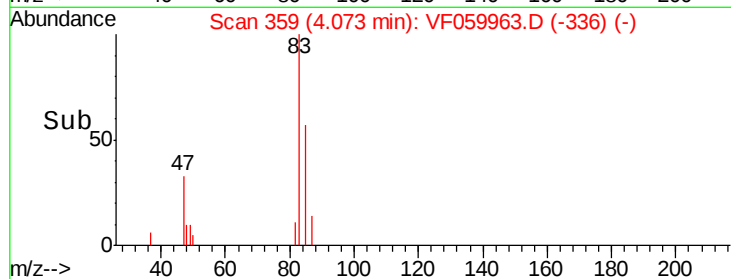
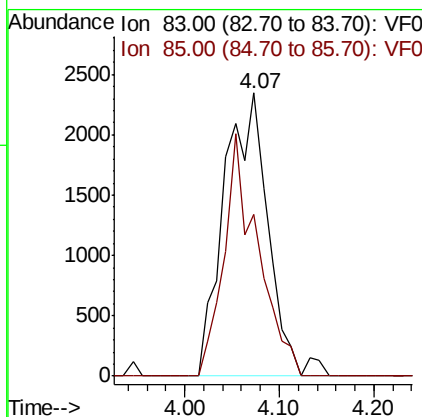
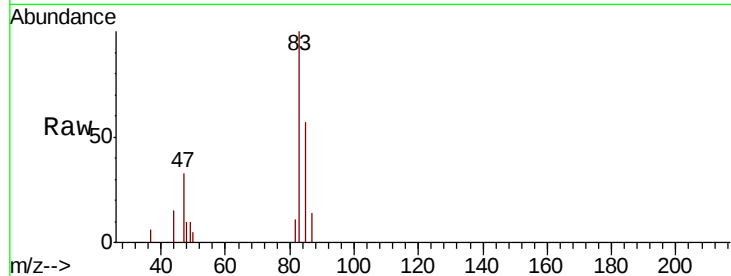
#30
Chloroform
Concen: 2.30 ug/l
RT: 4.07 min Scan# 359
Delta R.T. 0.02 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 83 Resp: 7590
Ion Ratio Lower Upper
83 100
85 57.1 54.4 81.6

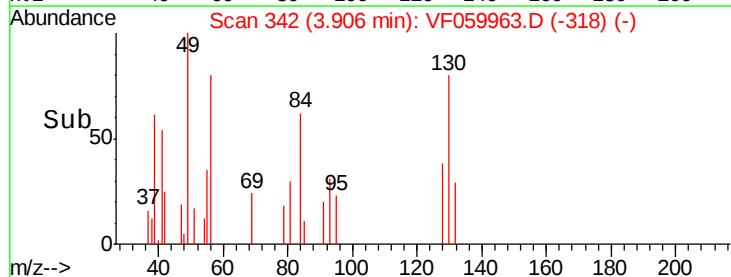
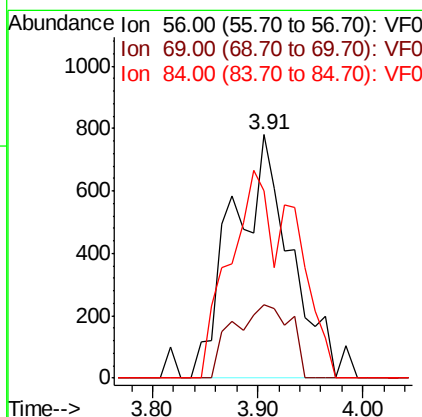
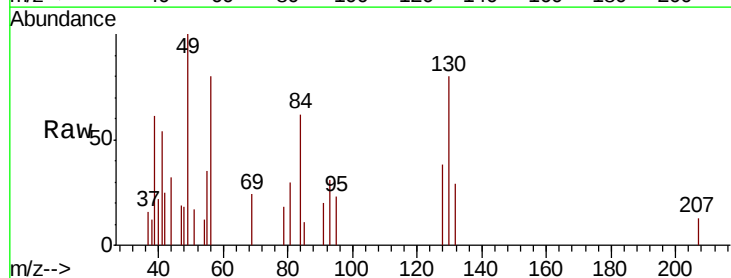
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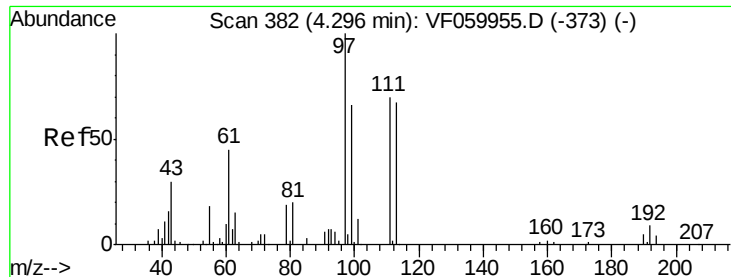
apatel
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#31
Cyclohexane
Concen: 2.47 ug/l m
RT: 3.91 min Scan# 342
Delta R.T. 0.03 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 56 Resp: 2975
Ion Ratio Lower Upper
56 100
69 30.2 26.2 39.2
84 77.0 61.0 91.4





#32

1,1,1-Trichloroethane

Concen: 2.17 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

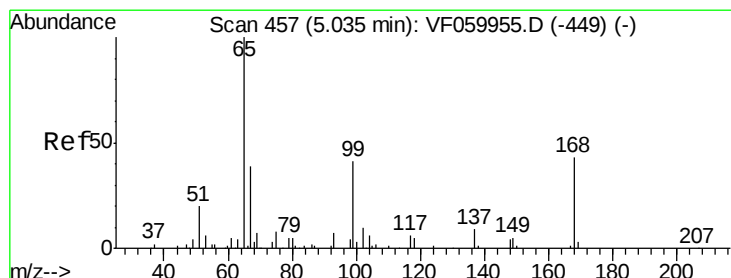
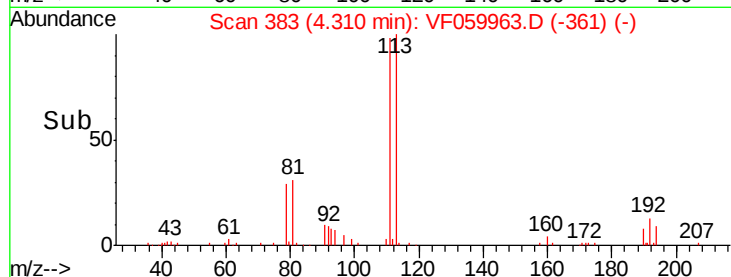
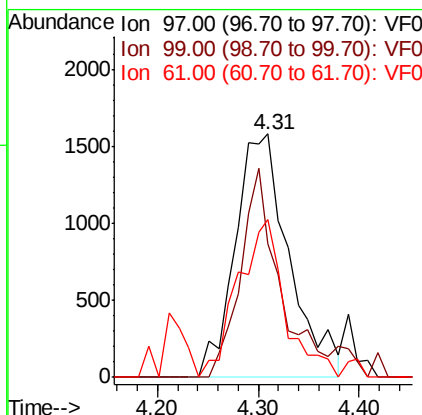
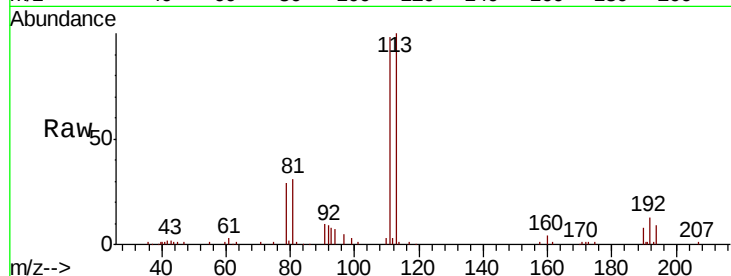
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	97	Resp:	5885
Ion Ratio	Lower	Upper	
97	100		
99	54.8	53.0	79.4
61	64.8	36.6	55.0#

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#33

1,2-Dichloroethane-d4

Concen: 49.84 ug/l

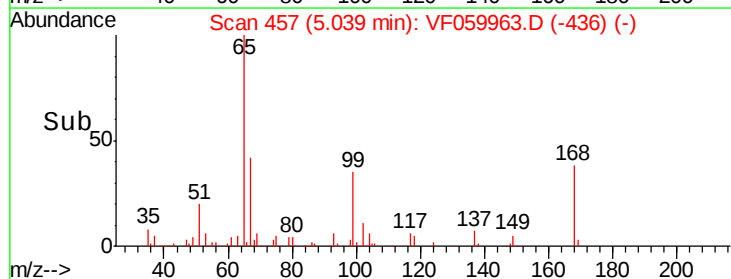
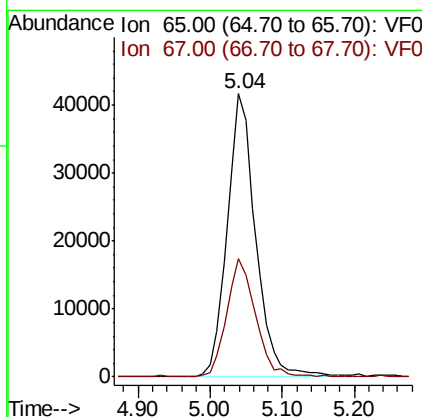
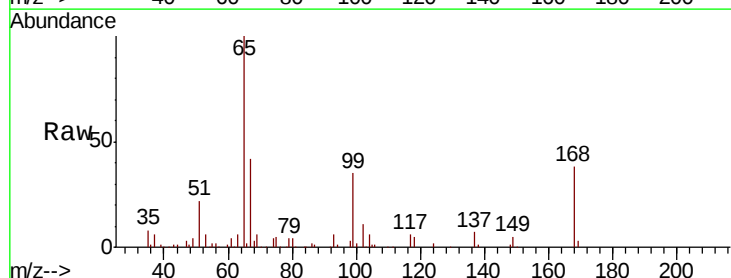
RT: 5.04 min Scan# 457

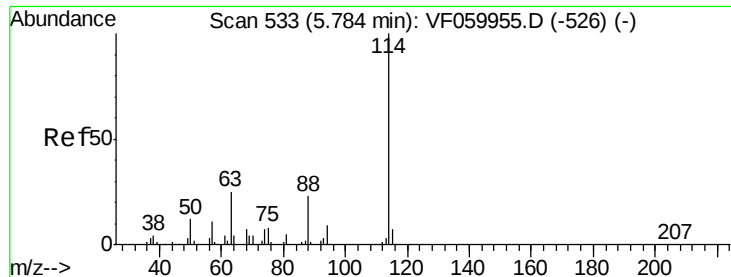
Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	65	Resp:	114286
Ion Ratio	Lower	Upper	
65	100		
67	41.9	0.0	87.4





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

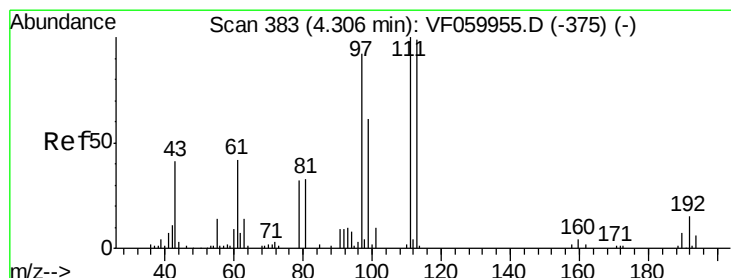
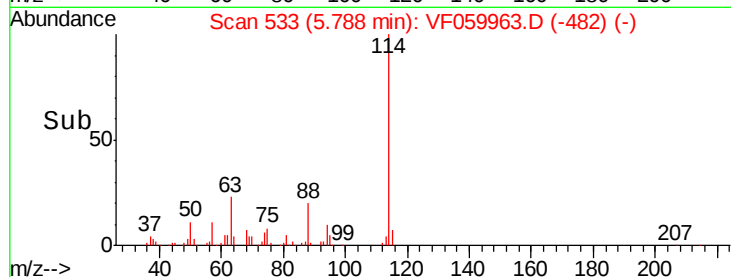
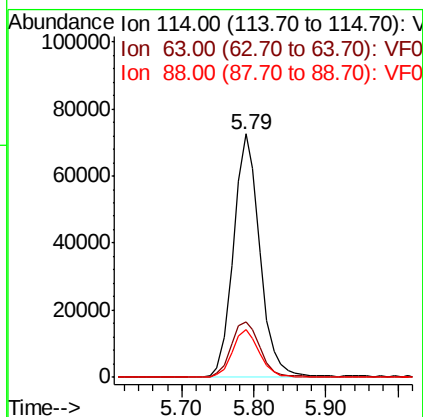
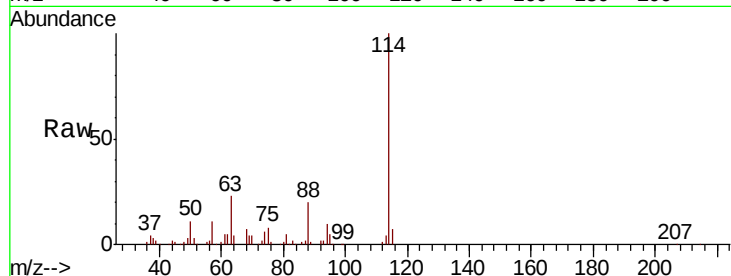
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	114	Resp:	186020
Ion Ratio		Lower	Upper
114	100		
63	23.0	0.0	50.2
88	19.8	0.0	46.8

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#35

Dibromofluoromethane

Concen: 51.85 ug/l

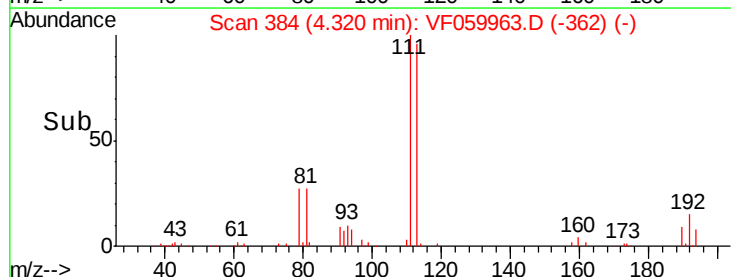
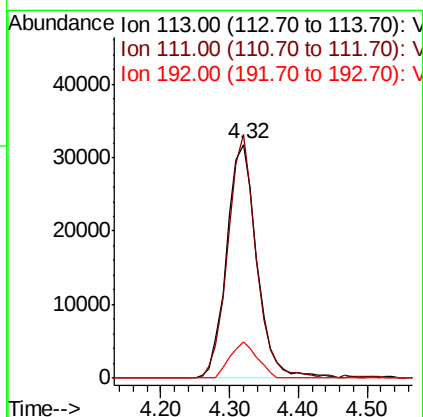
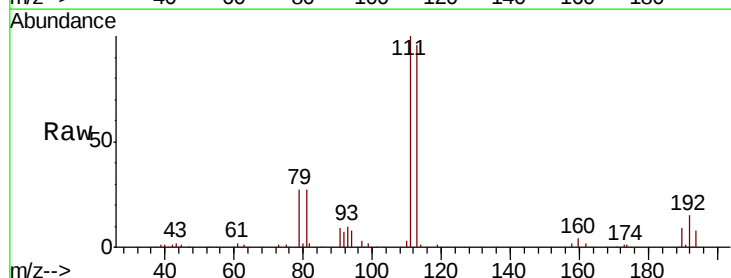
RT: 4.32 min Scan# 384

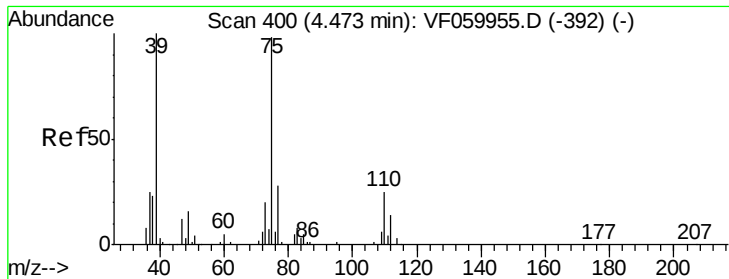
Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	113	Resp:	96656
Ion Ratio		Lower	Upper
113	100		
111	104.3	80.6	121.0
192	15.7	11.7	17.5





#36

1,1-Dichloropropene

Concen: 2.34 ug/l

RT: 4.49 min Scan# 401

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

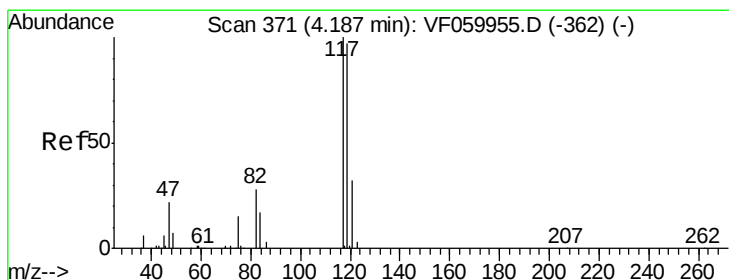
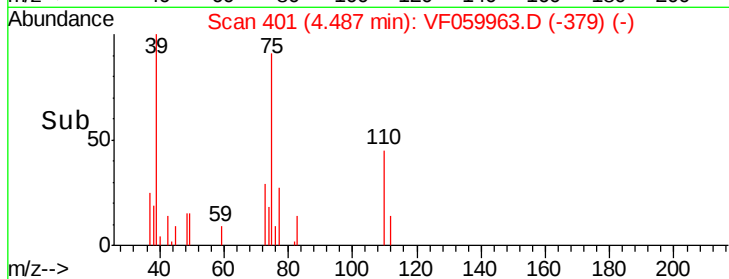
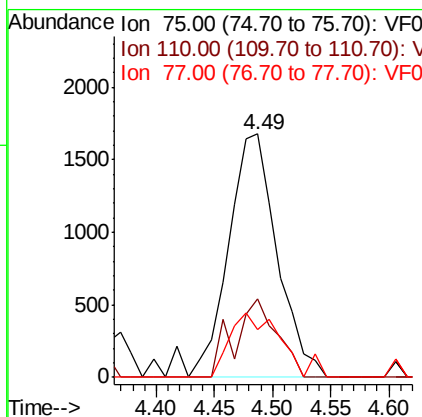
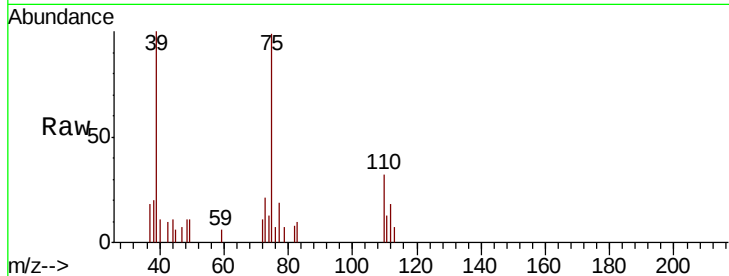
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	75	Resp:	4845
Ion Ratio	Lower	Upper	
75	100		
110	32.1	12.6	37.8
77	19.5	22.7	34.1#

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 2.09 ug/l

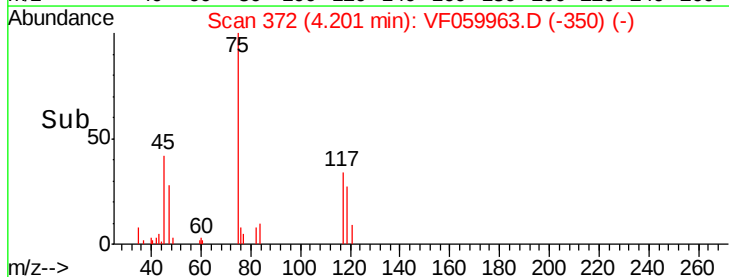
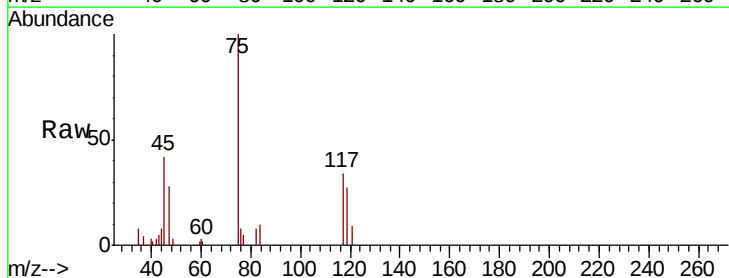
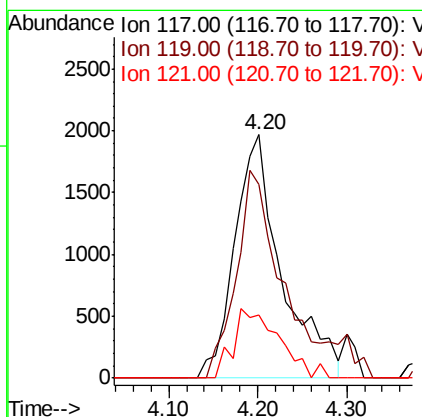
RT: 4.20 min Scan# 372

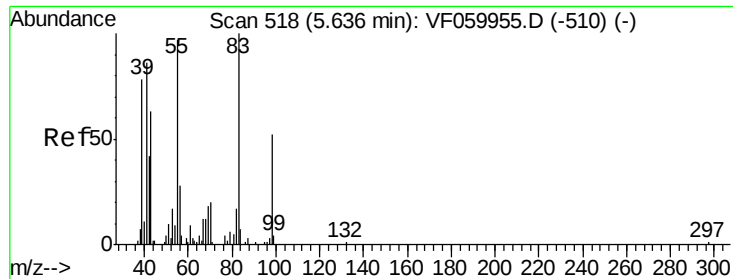
Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	117	Resp:	7207
Ion Ratio	Lower	Upper	
117	100		
119	79.7	76.9	115.3
121	26.1	24.9	37.3





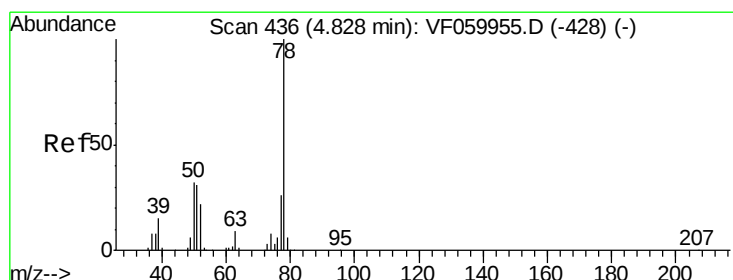
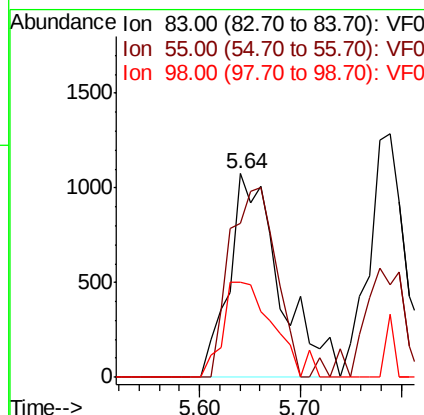
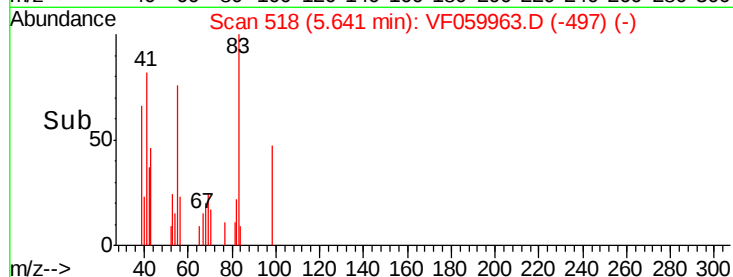
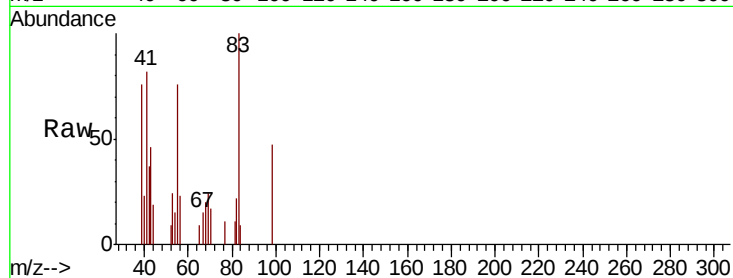
#39
Methvlcvclohexane
Concen: 2.51 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.9	77.4	116.2#
98	46.6	41.5	62.3

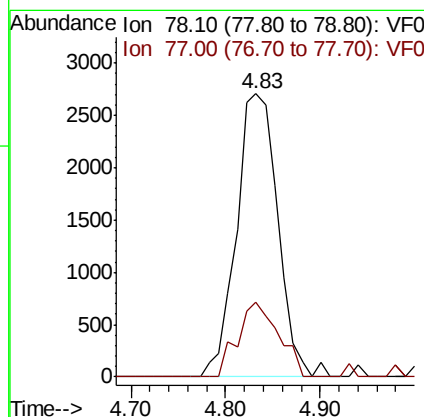
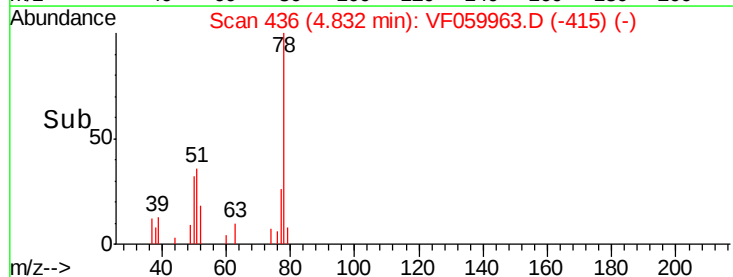
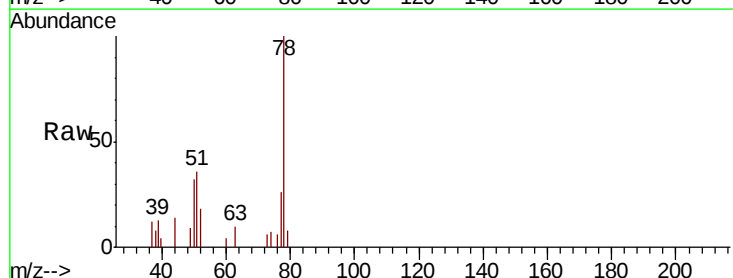
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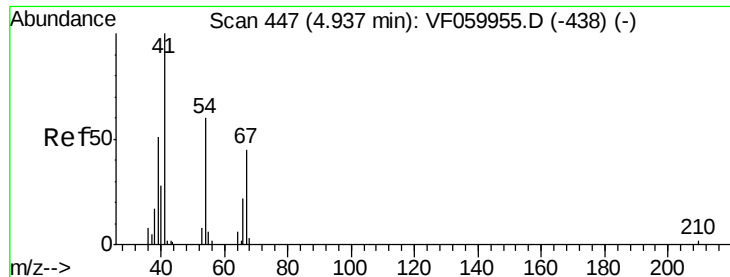
apatel
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#40
Benzene
Concen: 2.35 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.4	21.1	31.7





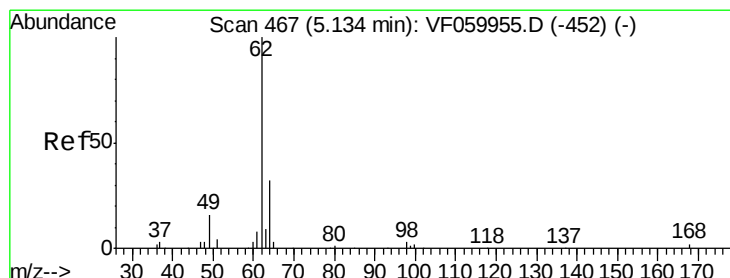
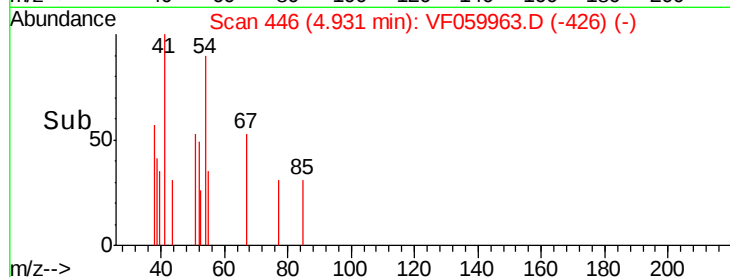
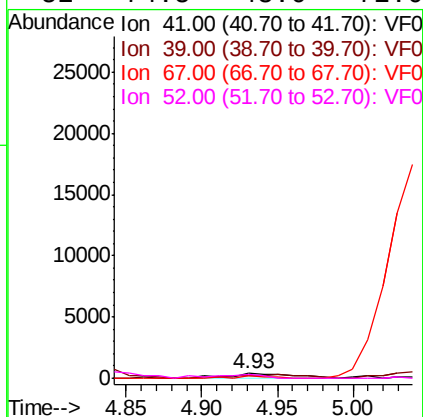
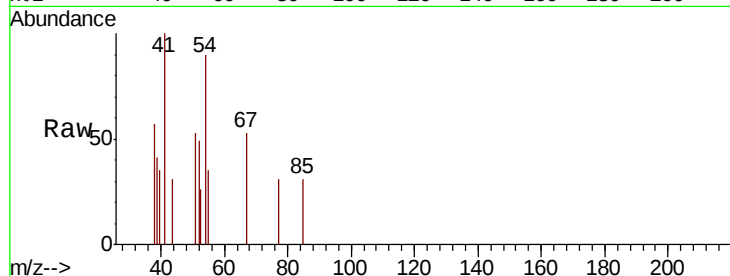
#41
Methacrylonitrile
Concen: 2.71 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	76.9	75.7	113.5	
67	52.5	36.1	54.1	
52	74.5	48.0	72.0	

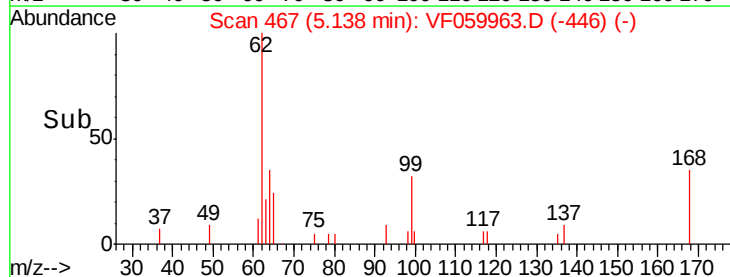
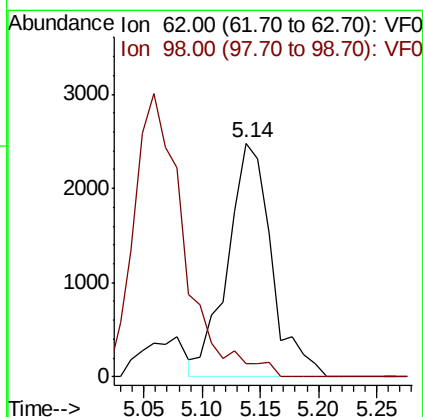
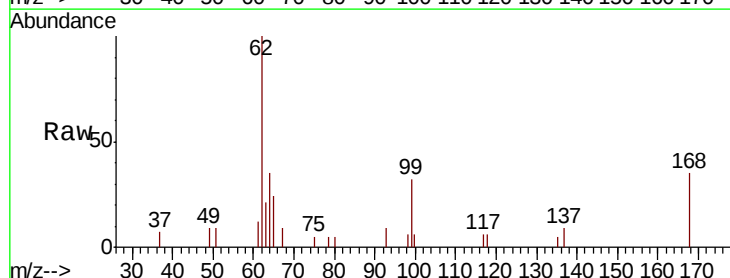
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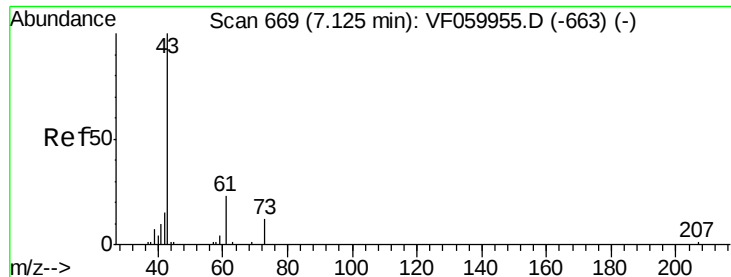
apatel
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#42
1,2-Dichloroethane
Concen: 2.33 ug/l
RT: 5.14 min Scan# 467
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	5.9	0.0	5.0	





#43

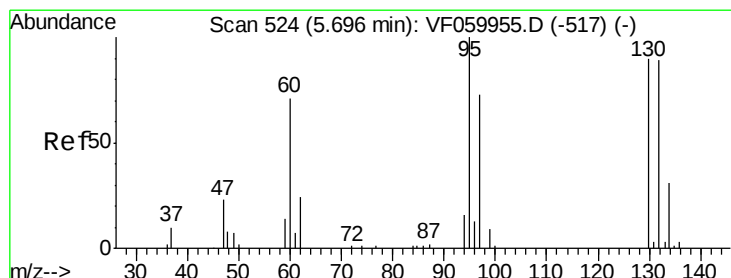
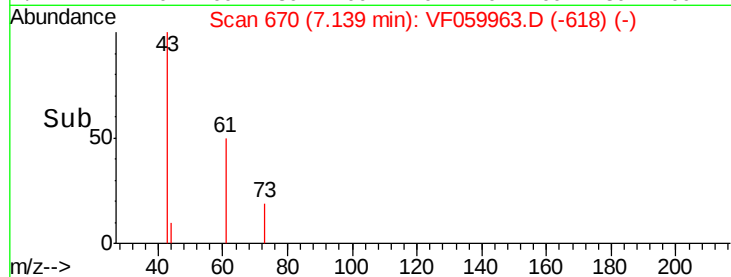
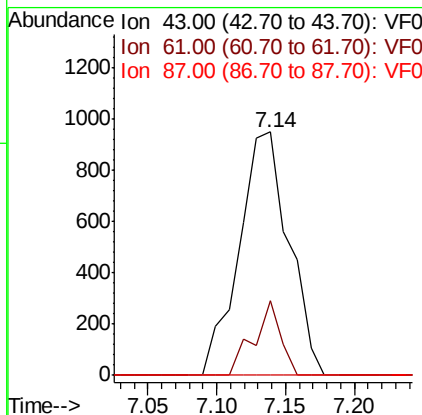
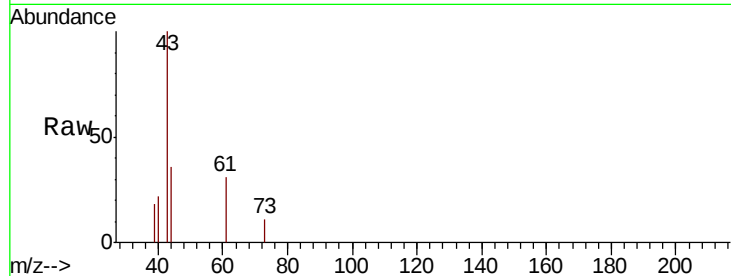
Isopropyl Acetate
 Concen: 2.48 ug/l
 RT: 7.14 min Scan# 670
 Delta R.T. 0.01 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.6	18.6	27.8
87	0.0	0.0	0.0

Manual Integrations
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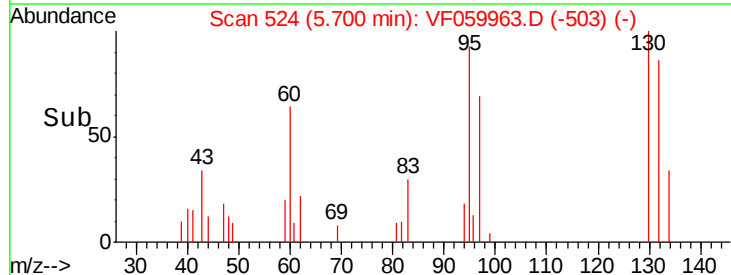
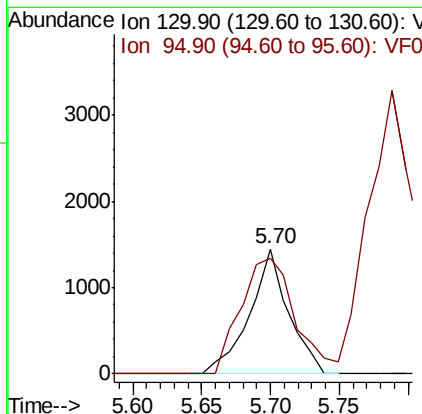
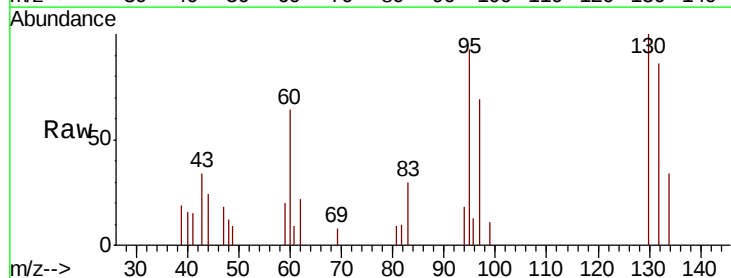
apatel
 8/16/2018 12:17:16 PM

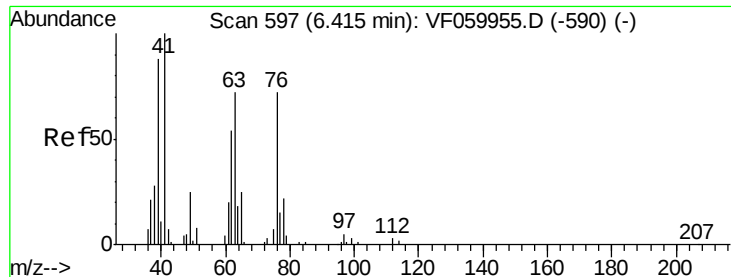


#44

Trichloroethene
 Concen: 2.11 ug/l
 RT: 5.70 min Scan# 524
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.2	0.0	222.0





#45

1,2-Dichloropropane

Concen: 2.48 ug/l

RT: 6.42 min Scan# 597

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 63 Resp: 2293

Ion Ratio Lower Upper

63 100

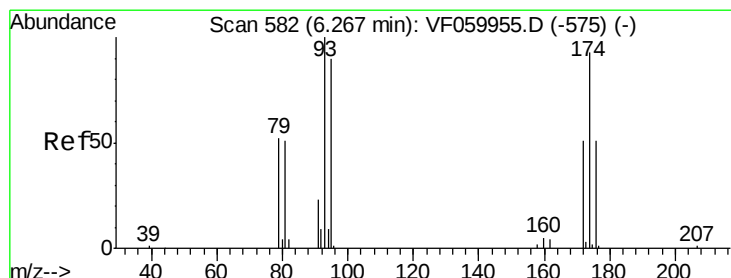
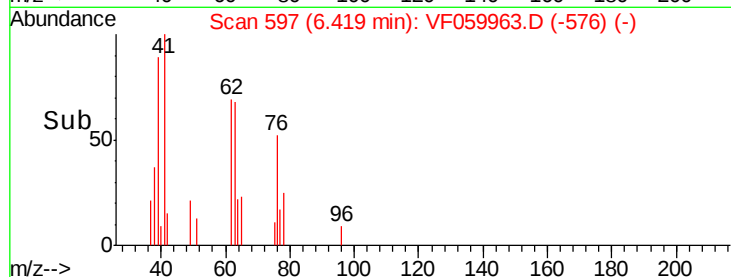
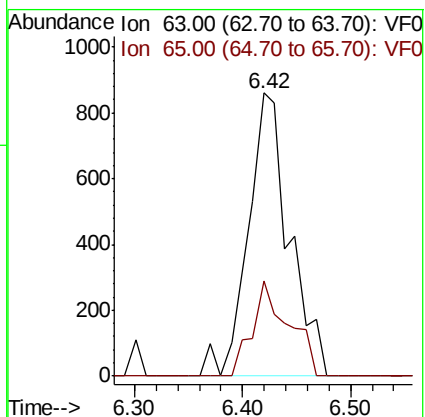
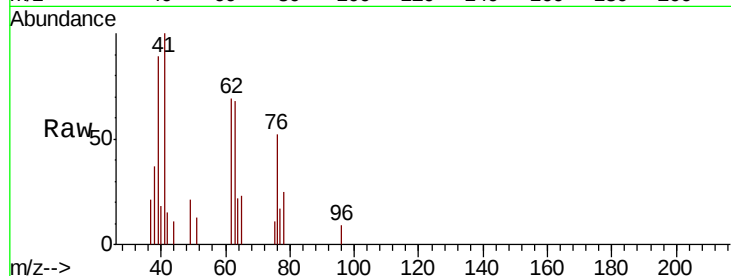
65 33.8 27.8 41.6

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#46

Dibromomethane

Concen: 1.99 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

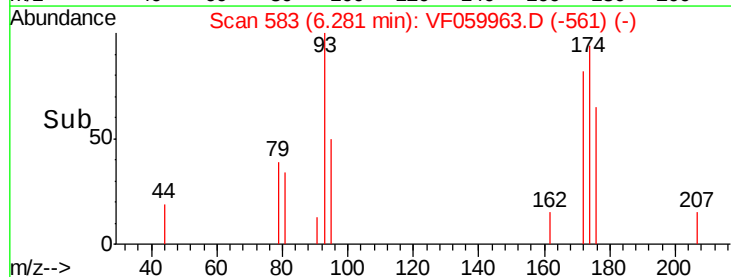
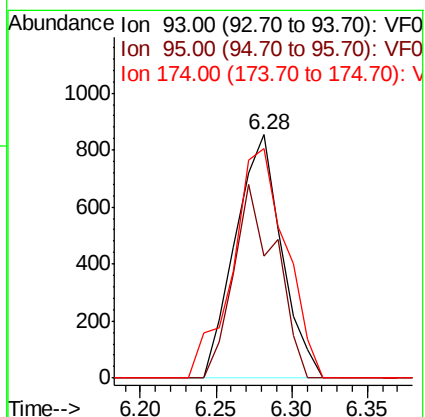
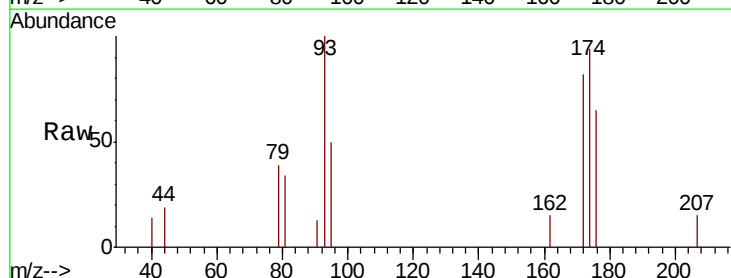
Tgt Ion: 93 Resp: 1819

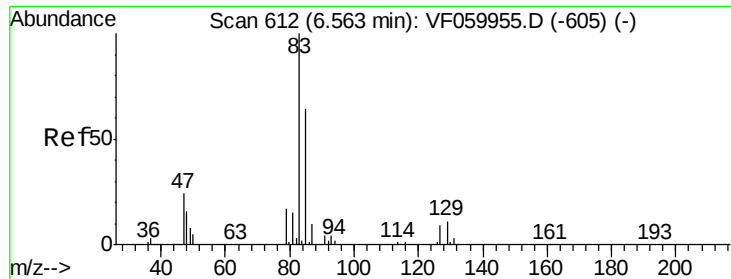
Ion Ratio Lower Upper

93 100

95 49.9 72.4 108.6#

174 94.4 75.9 113.9





#47

Bromodichloromethane

Concen: 1.94 ug/l

RT: 6.58 min Scan# 613

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

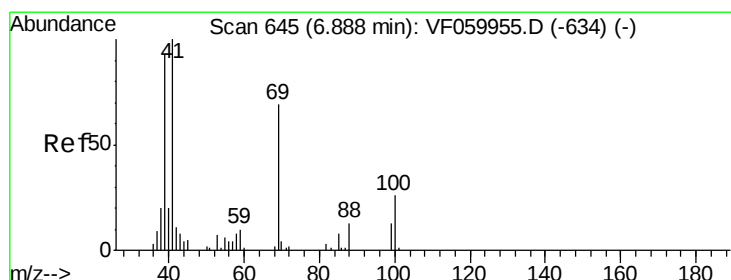
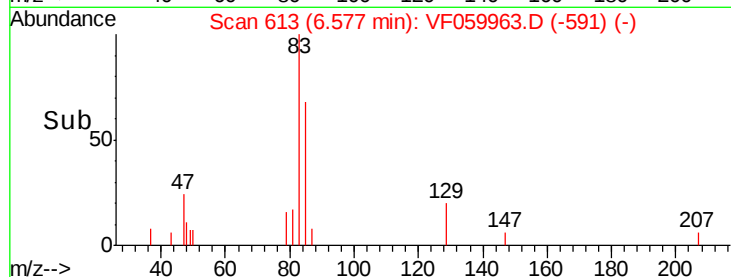
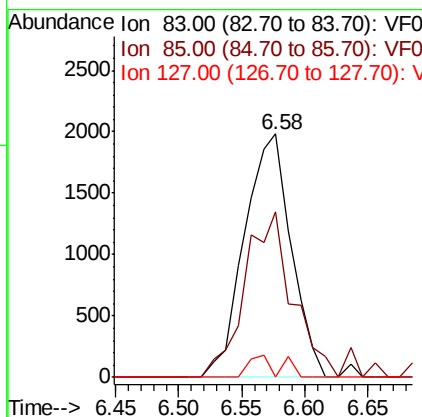
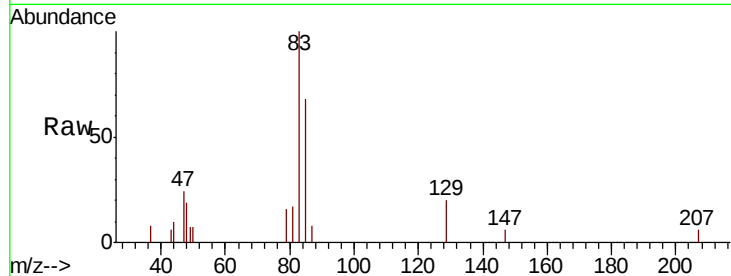
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	83	Resp:	5113
Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.5	77.3
127	0.0	7.5	11.3#

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#48

Methyl methacrylate

Concen: 2.69 ug/l

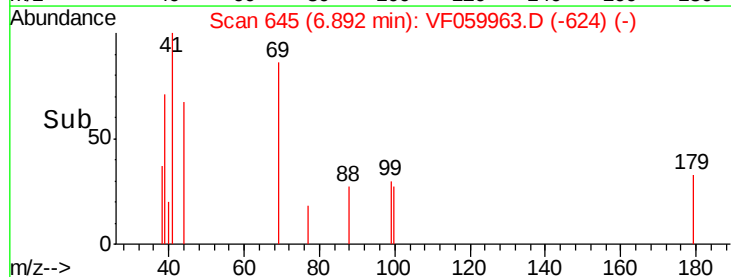
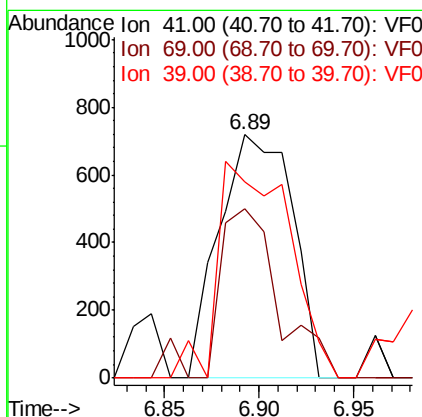
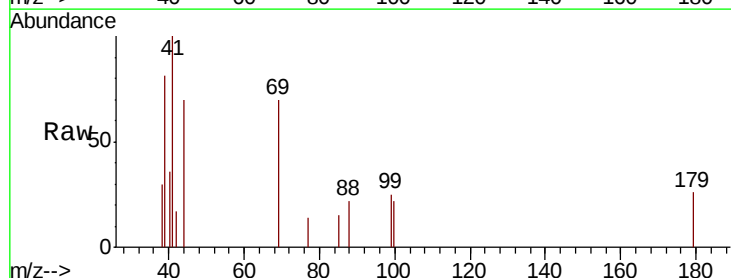
RT: 6.89 min Scan# 645

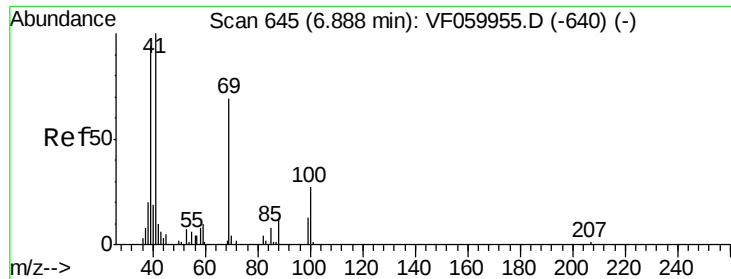
Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	41	Resp:	1930
Ion	Ratio	Lower	Upper
41	100		
69	69.8	54.8	82.2
39	80.8	75.1	112.7





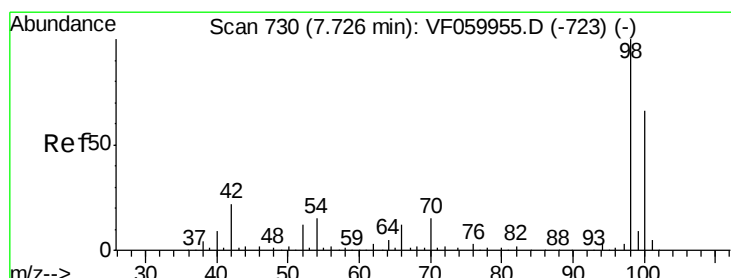
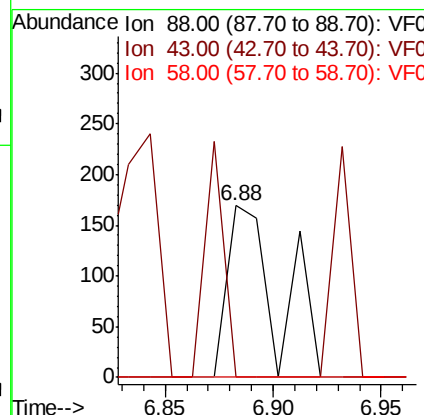
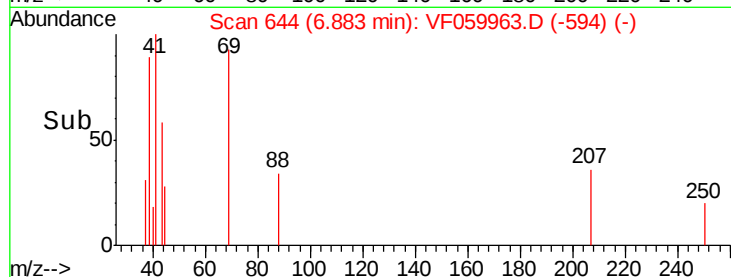
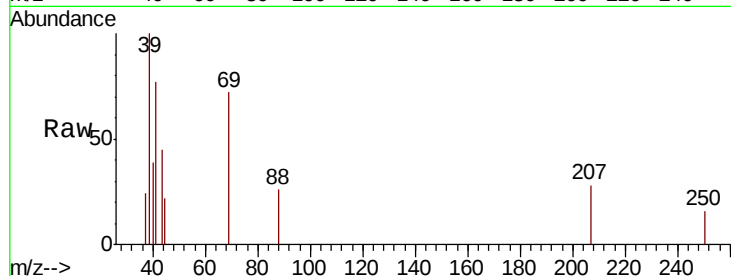
#49
1,4-Dioxane
Concen: 51.20 ug/l
RT: 6.88 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

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

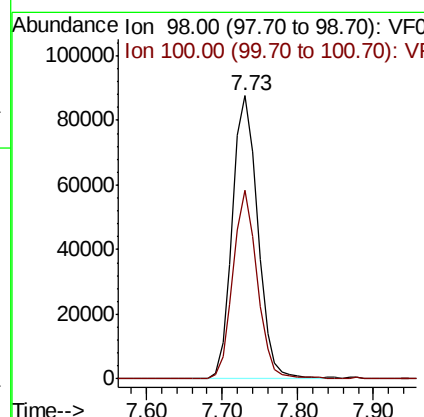
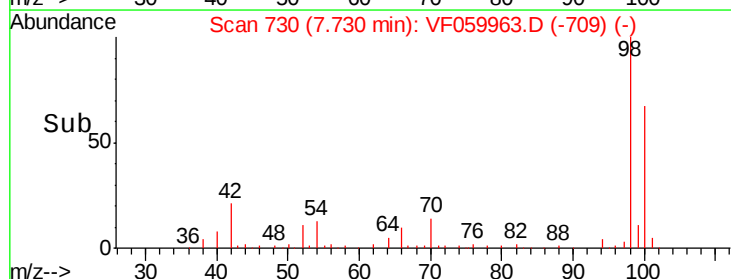
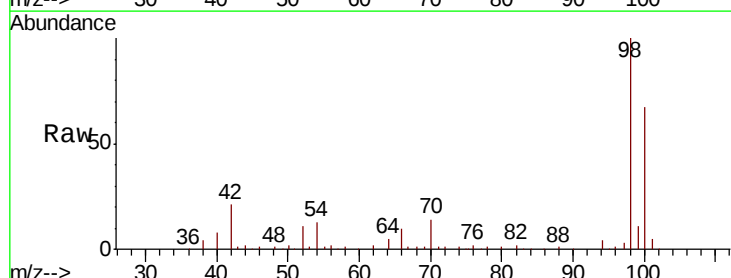
Manual Integrations
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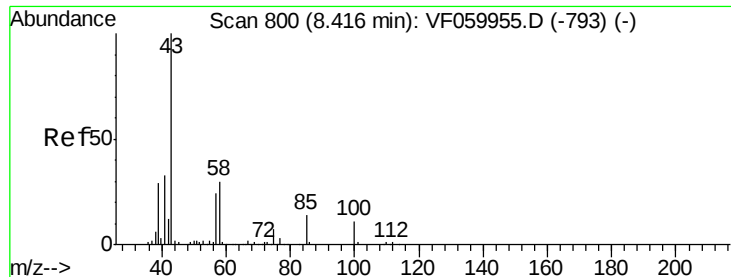
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#50
Toluene-d8
Concen: 49.70 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.6	52.9	79.3





#51

4-Methyl-2-Pentanone

Concen: 11.87 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 43 Resp: 11083

Ion Ratio Lower Upper

43 100

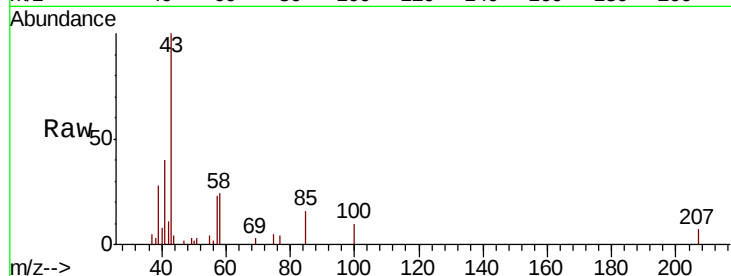
58 24.2 24.2 36.4#

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

6000

5000

4000

3000

2000

1000

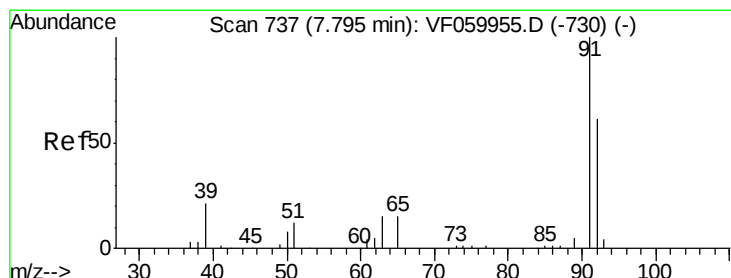
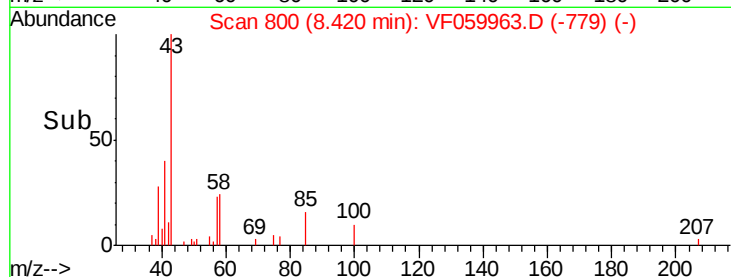
0

8.30

8.40

8.50

Time-->



#52

Toluene

Concen: 2.56 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.00 min

Lab File: VF059963.D

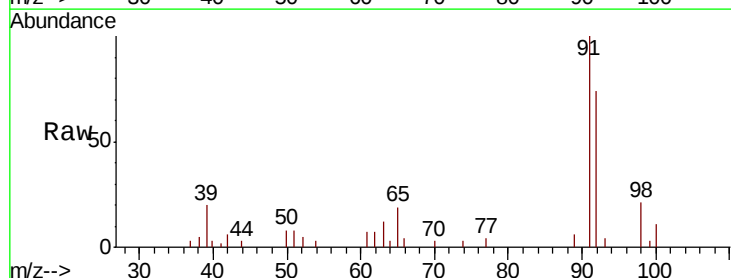
Acq: 15 Aug 2018 00:42

Tgt Ion: 92 Resp: 6620

Ion Ratio Lower Upper

92 100

91 135.4 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

5000

4000

3000

2000

1000

0

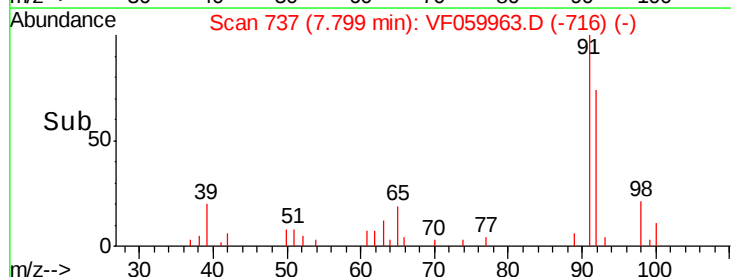
7.70

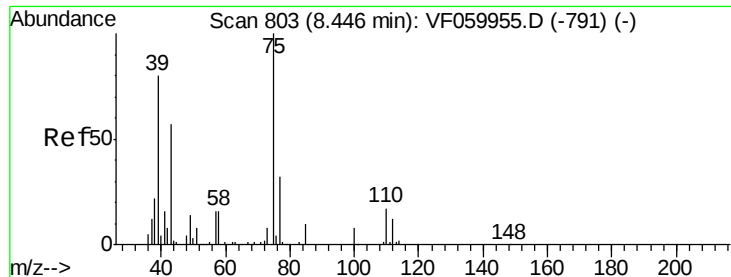
7.75

7.80

7.85

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.24 ug/l

RT: 8.45 min Scan# 803

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 75 Resp: 4826

Ion Ratio Lower Upper

75 100

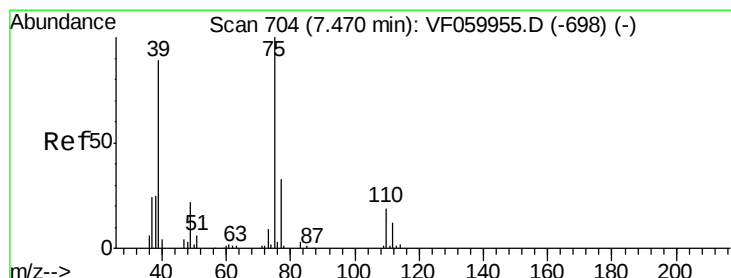
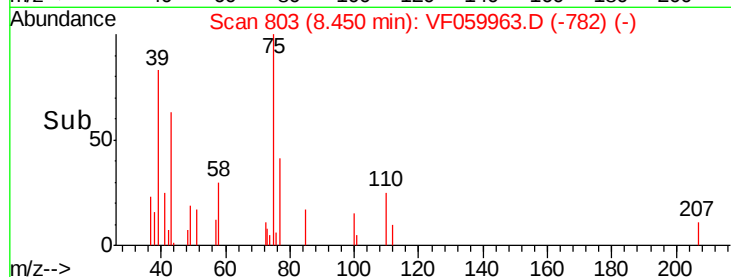
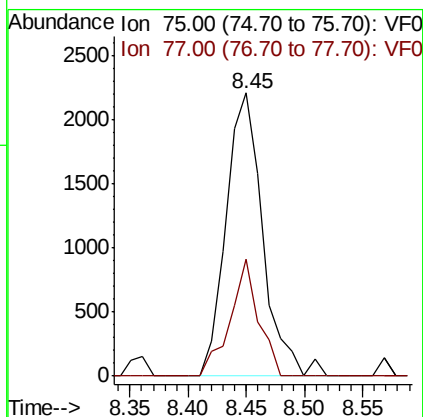
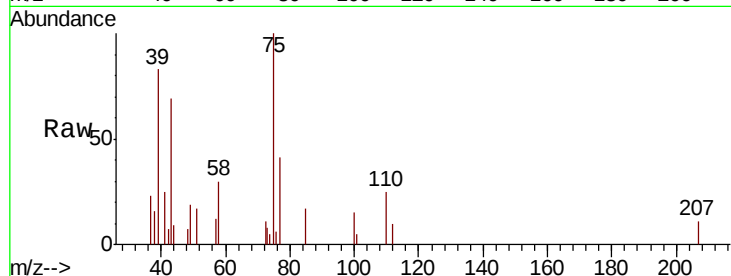
77 41.4 25.8 38.6#

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#54

cis-1,3-Dichloropropene

Concen: 2.12 ug/l

RT: 7.48 min Scan# 705

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

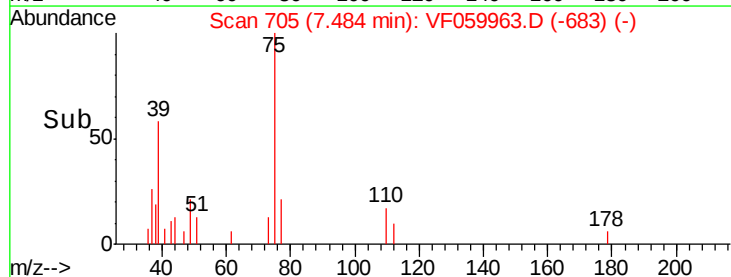
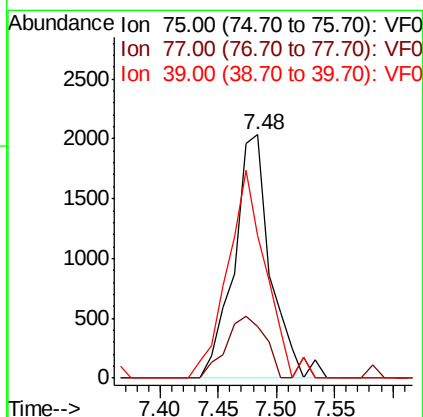
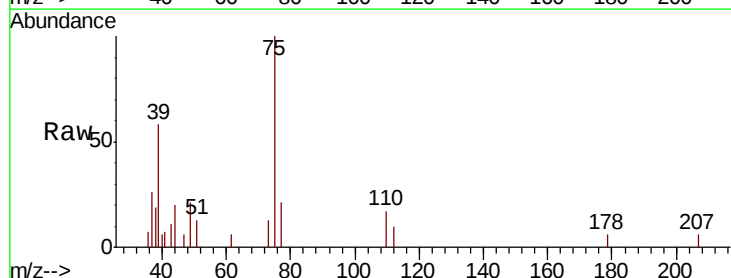
Tgt Ion: 75 Resp: 4400

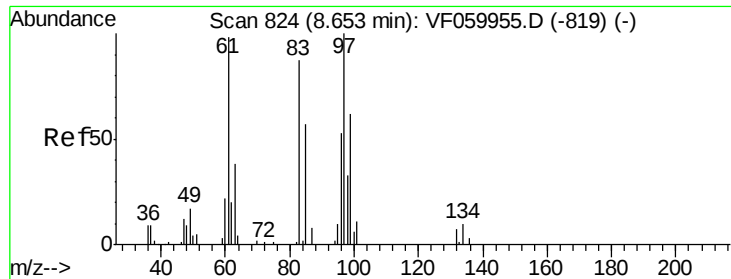
Ion Ratio Lower Upper

75 100

77 21.1 26.1 39.1#

39 58.4 71.6 107.4#





#55

1,1,2-Trichloroethane

Concen: 3.07 ug/l

RT: 8.66 min Scan# 824

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

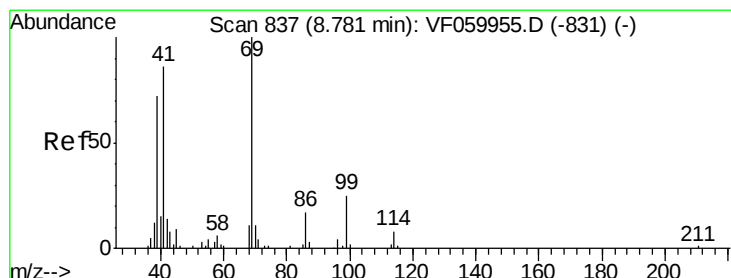
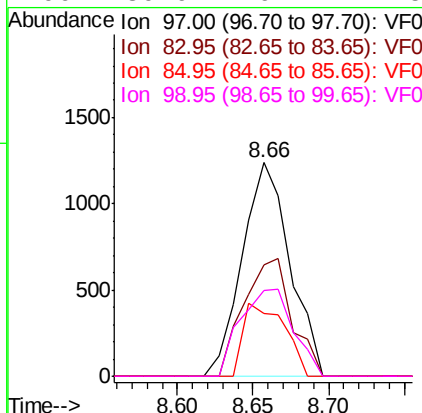
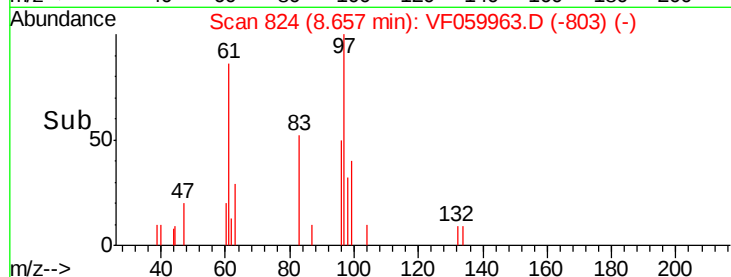
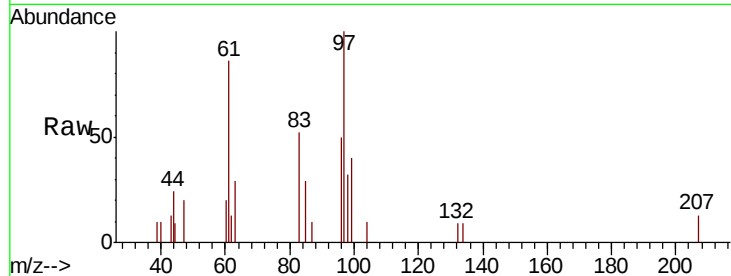
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 97 Resp: 2722

Ion	Ratio	Lower	Upper
97	100		
83	52.2	70.0	105.0#
85	29.1	45.2	67.8#
99	39.9	49.7	74.5#

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#56

Ethyl methacrylate

Concen: 2.19 ug/l

RT: 8.79 min Scan# 837

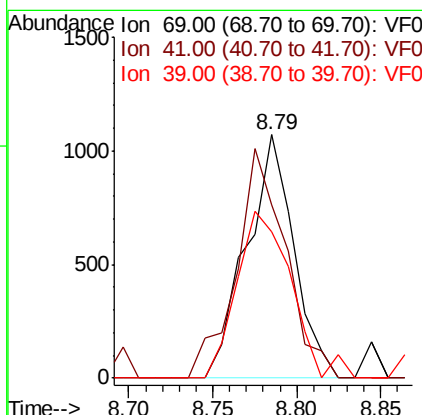
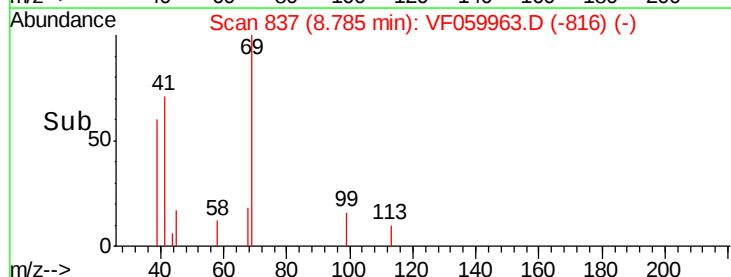
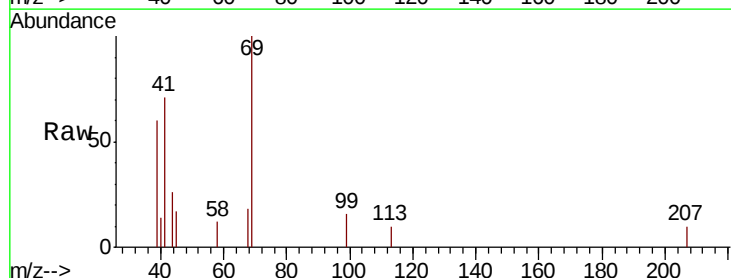
Delta R.T. 0.00 min

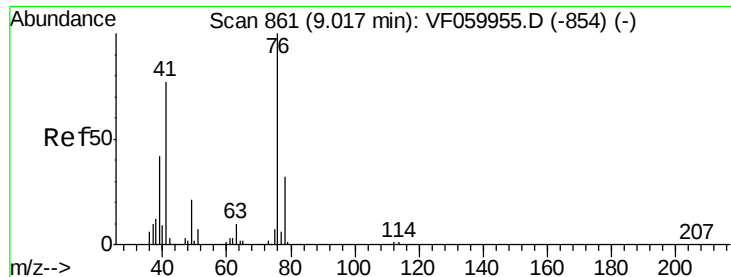
Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion: 69 Resp: 2083

Ion	Ratio	Lower	Upper
69	100		
41	71.2	68.7	103.1
39	60.3	58.5	87.7





#57

1,3-Dichloropropane

Concen: 2.38 ug/l

RT: 9.03 min Scan# 862

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 76 Resp: 3887

Ion Ratio Lower Upper

76 100

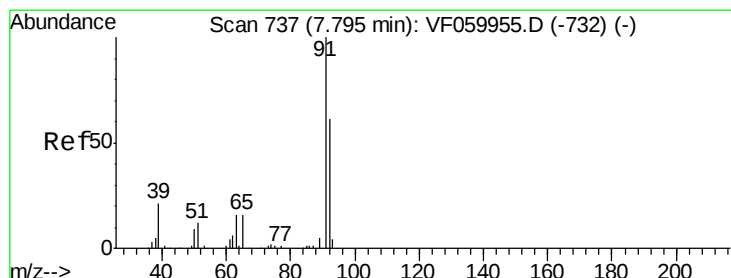
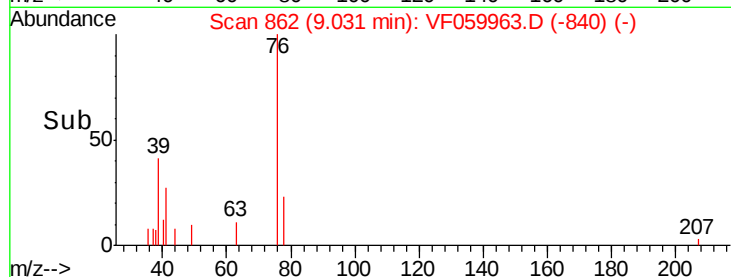
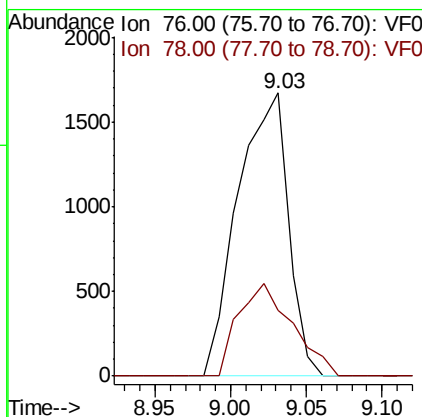
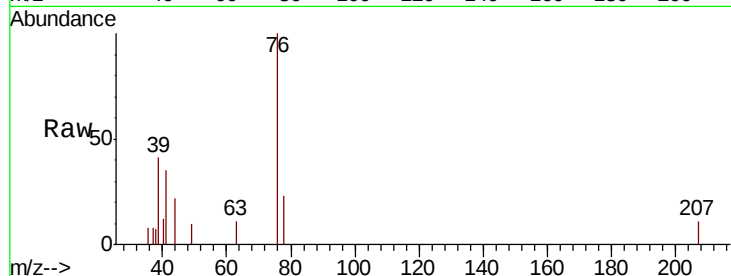
78 23.4 25.5 38.3#

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#58

2-Chloroethyl Vinyl ether

Concen: 10.83 ug/l

RT: 7.81 min Scan# 738

Delta R.T. 0.01 min

Lab File: VF059963.D

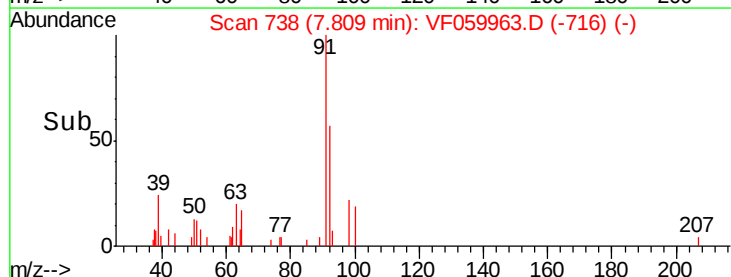
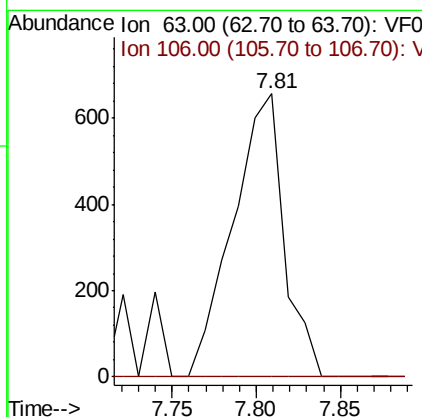
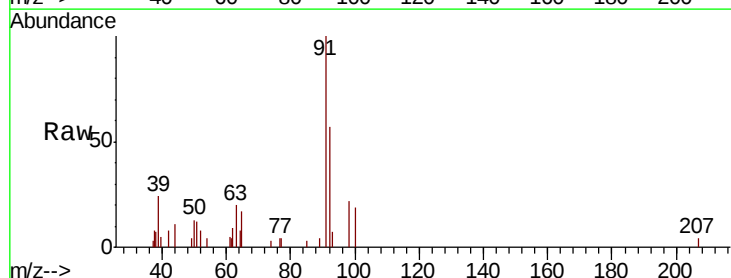
Acq: 15 Aug 2018 00:42

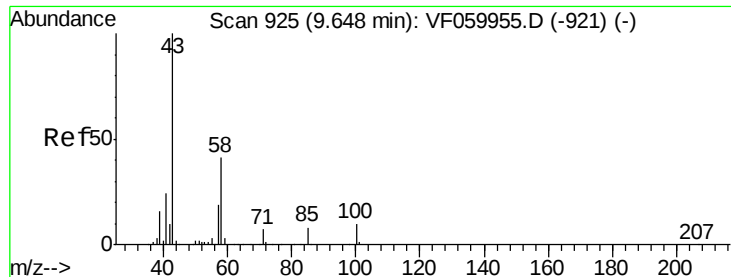
Tgt Ion: 63 Resp: 1386

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





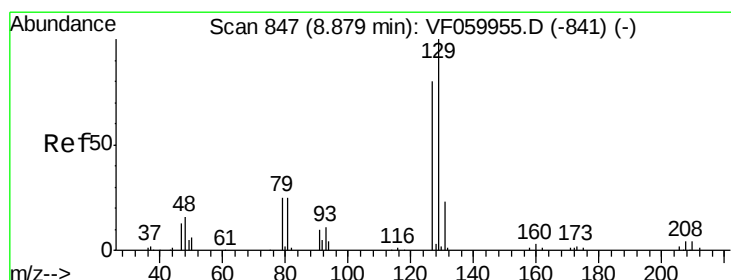
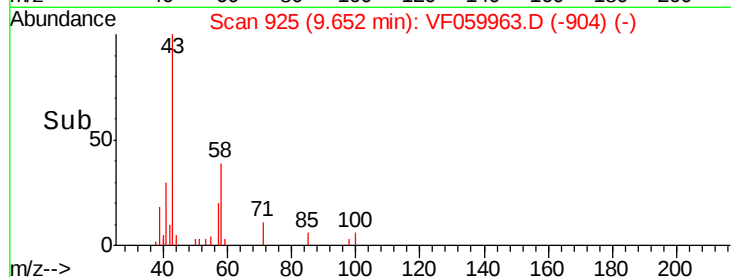
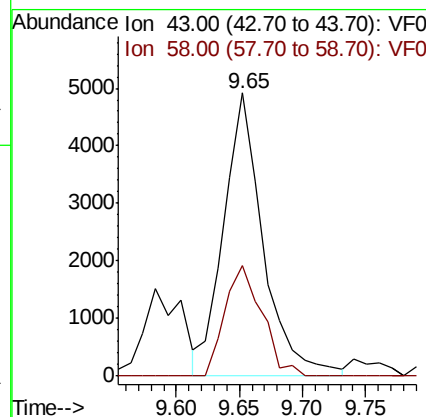
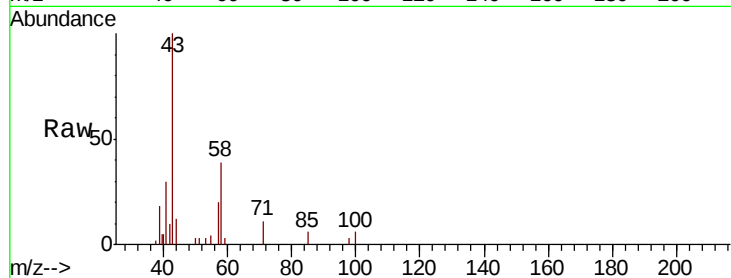
#59
2-Hexanone
Concen: 15.65 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.0	19.4	58.2

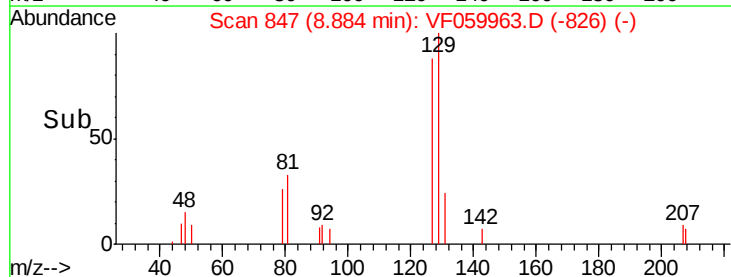
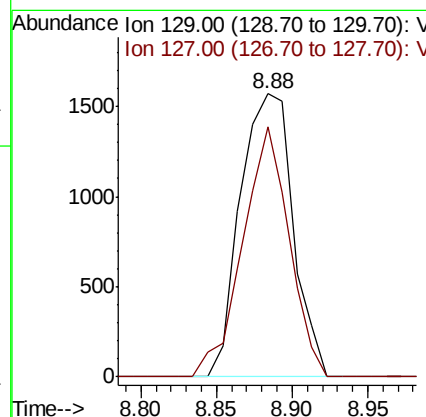
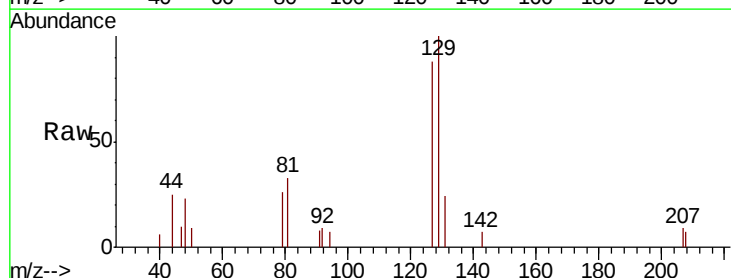
Manual Integrations
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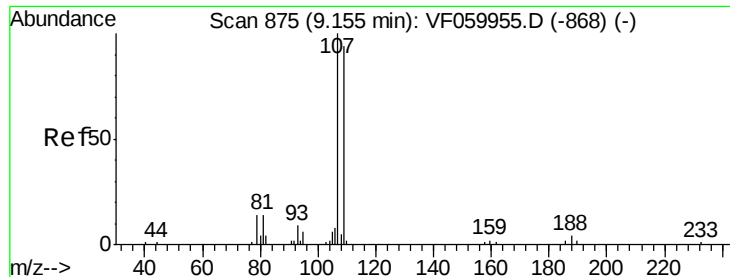
apatel
8/16/2018 12:17:16 PM



#60
Dibromochloromethane
Concen: 2.18 ug/l
RT: 8.88 min Scan# 847
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
129	100		
127	88.2	40.0	119.9





#61

1,2-Dibromoethane

Concen: 2.26 ug/l

RT: 9.16 min Scan# 875

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 107 Resp: 2495

Ion Ratio Lower Upper

107 100

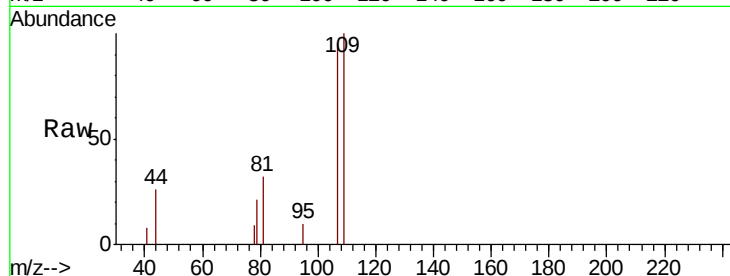
109 105.1 75.0 112.6

Manual Integrations

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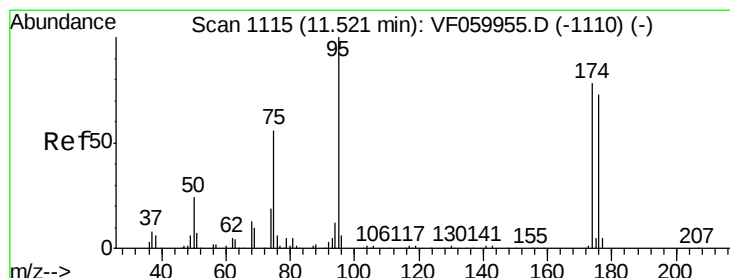
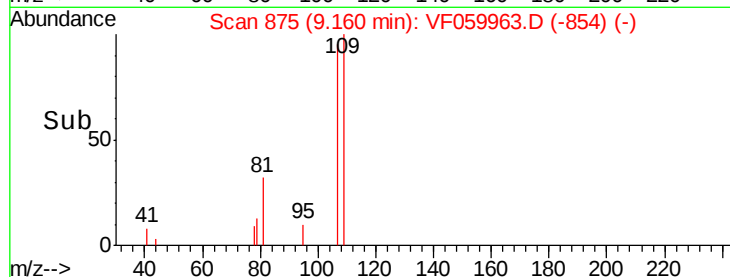
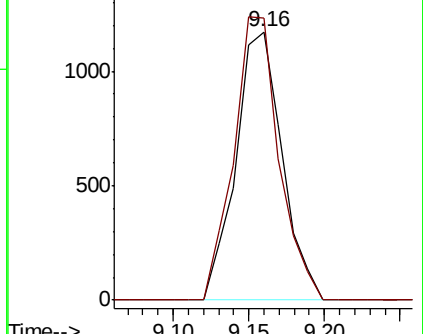
apatel

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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: 49.93 ug/l

RT: 11.53 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

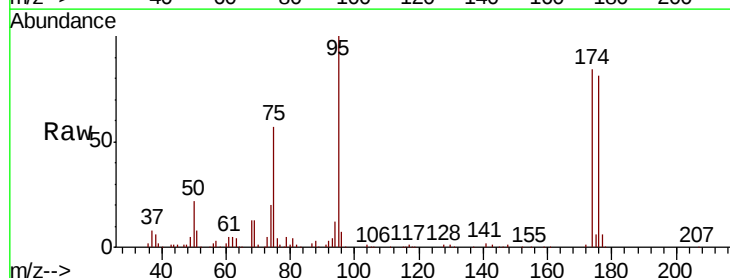
Tgt Ion: 95 Resp: 112730

Ion Ratio Lower Upper

95 100

174 83.5 0.0 156.4

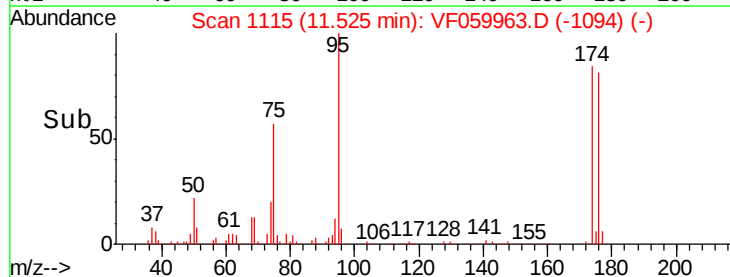
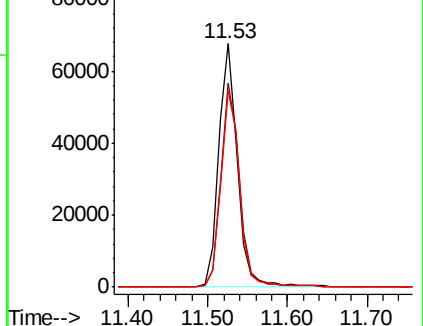
176 80.6 0.0 146.8

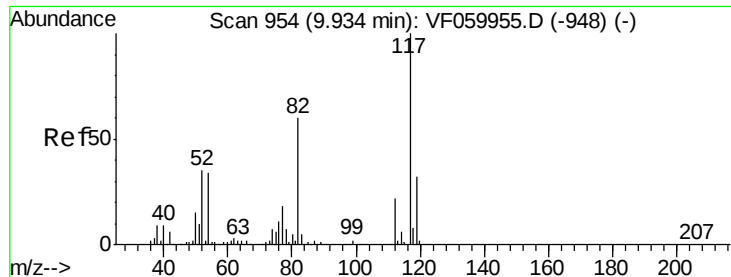


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





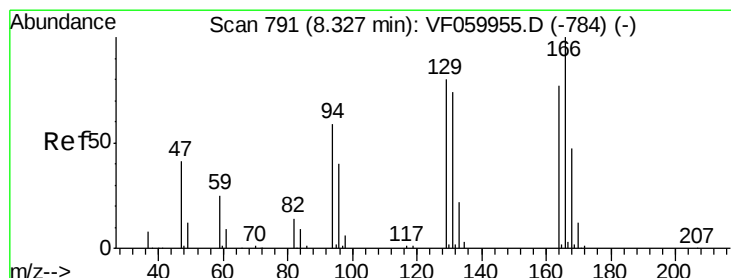
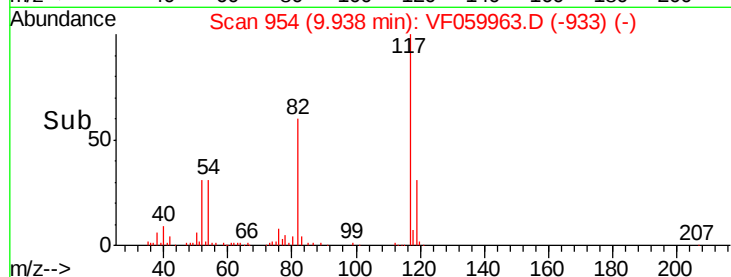
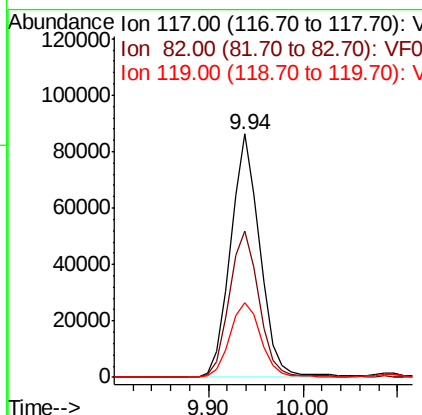
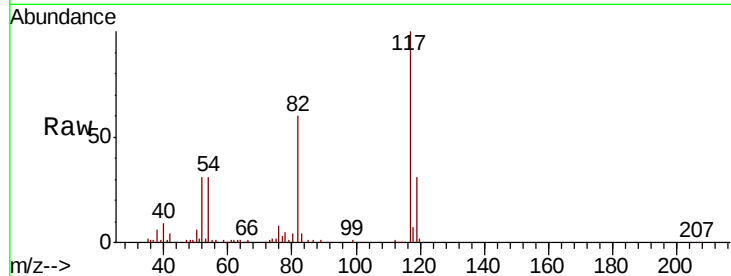
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.94 min Scan# 954
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
117	100	185158		
82	59.9	48.3	72.5	
119	30.7	25.7	38.5	

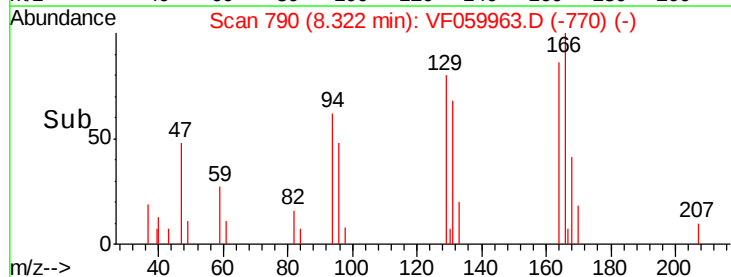
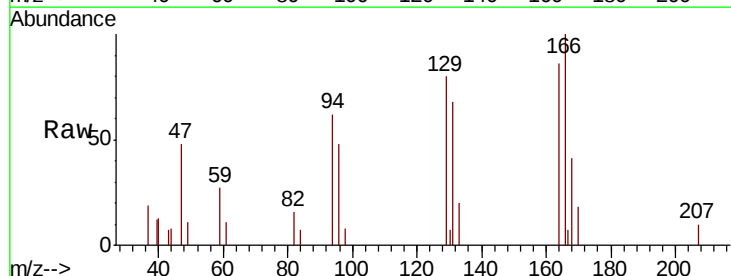
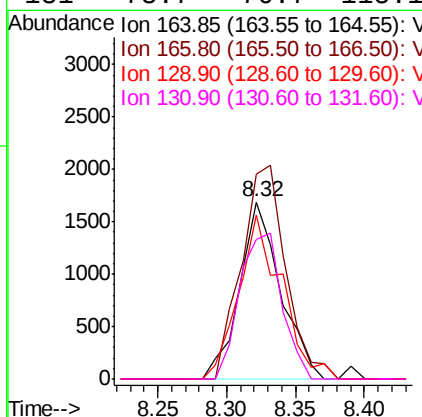
Manual Integrations
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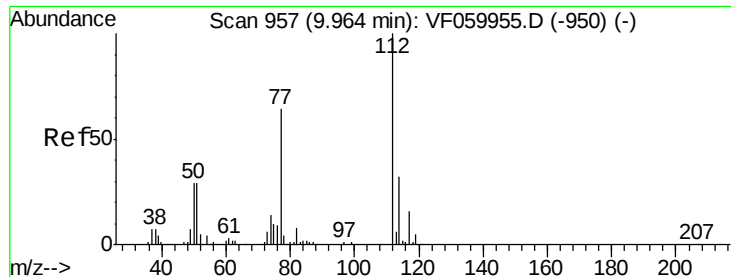
apatel
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#64
Tetrachloroethene
Concen: 2.43 ug/l
RT: 8.32 min Scan# 790
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	3498		
166	115.8	103.4	155.2	
129	92.8	82.2	123.4	
131	78.7	76.7	115.1	





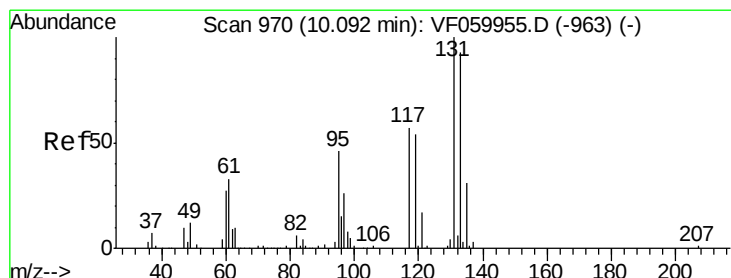
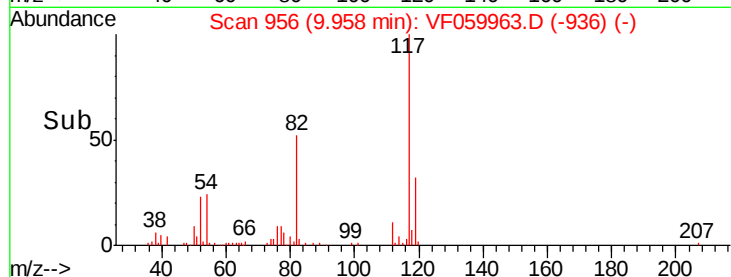
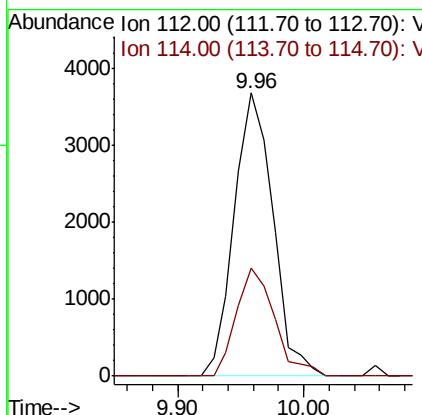
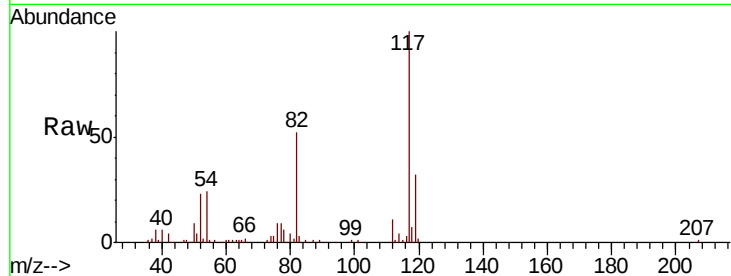
#65
Chlorobenzene
Concen: 2.21 ug/l
RT: 9.96 min Scan# 956
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:112 Resp: 7889
Ion Ratio Lower Upper
112 100
114 38.2 25.8 38.6

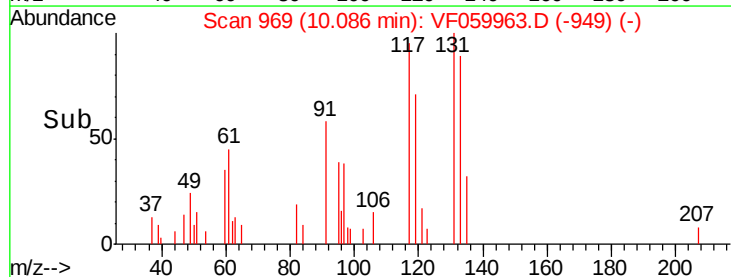
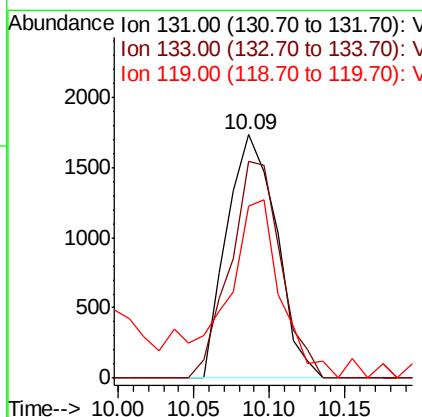
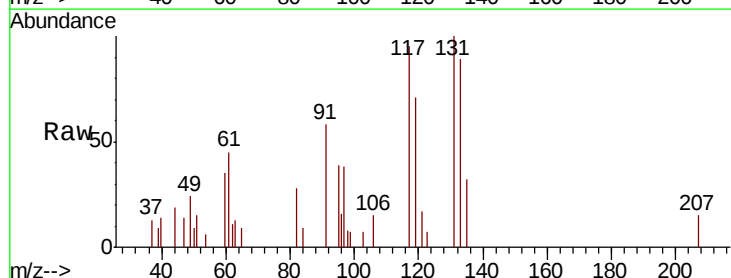
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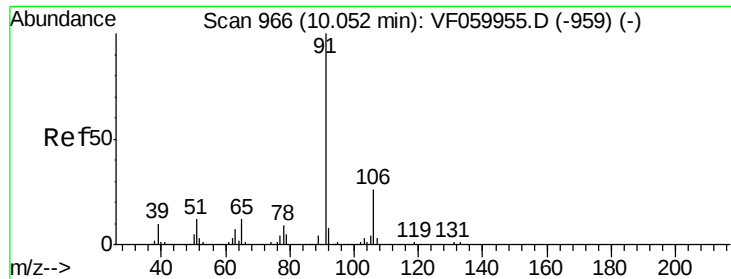
apatel
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.30 ug/l
RT: 10.09 min Scan# 969
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion:131 Resp: 3969
Ion Ratio Lower Upper
131 100
133 88.9 46.4 139.1
119 70.7 27.2 81.5





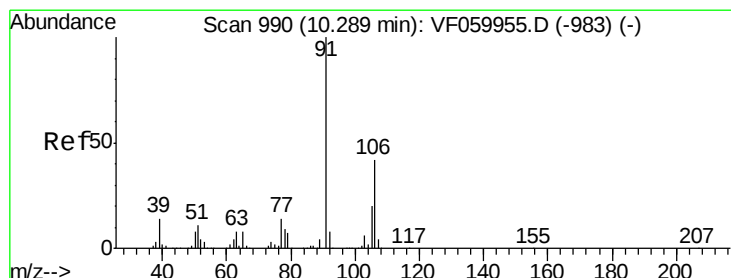
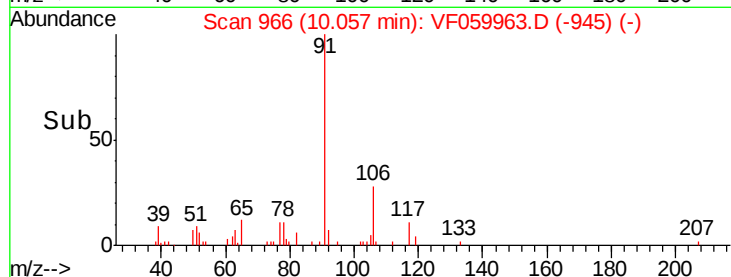
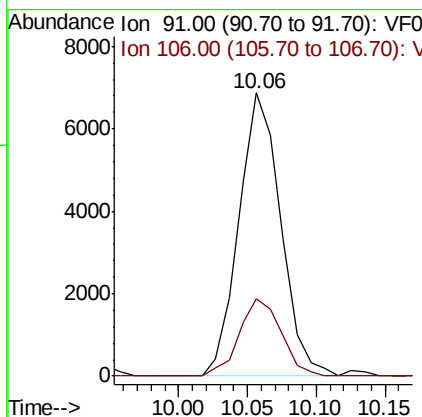
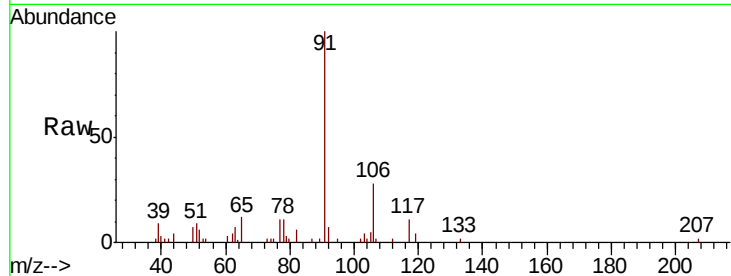
#67
Ethyl Benzene
Concen: 2.31 ug/l
RT: 10.06 min Scan# 966
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 91 Resp: 14569
Ion Ratio Lower Upper
91 100
106 27.5 20.7 31.1

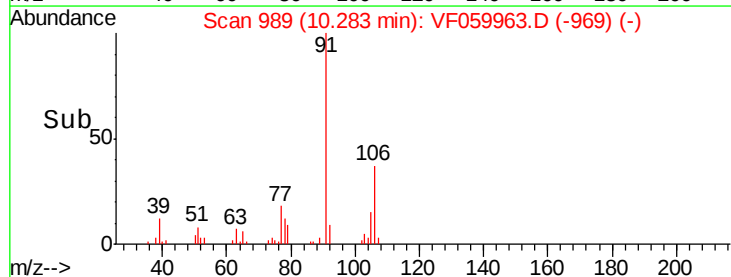
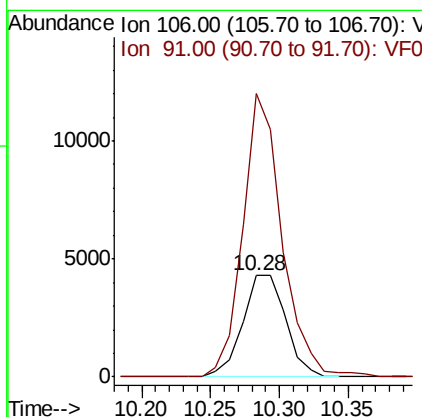
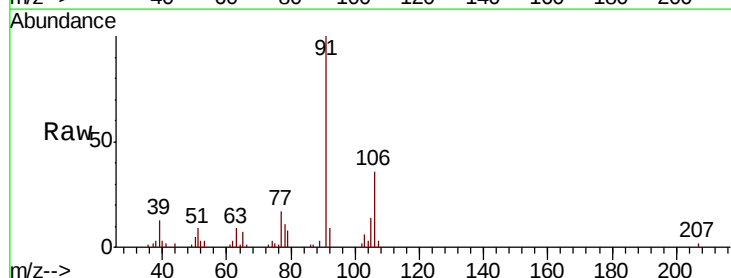
Manual Integrations
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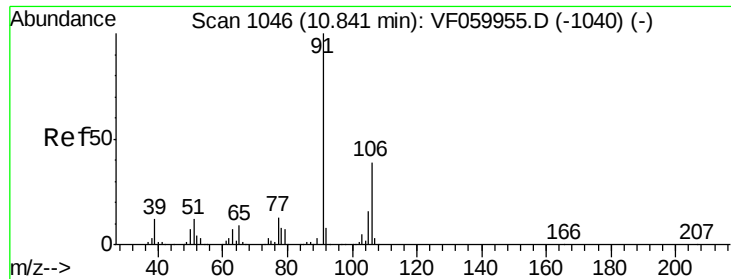
apatel
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#68
m/p-Xylenes
Concen: 4.43 ug/l
RT: 10.28 min Scan# 989
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 106 Resp: 9408
Ion Ratio Lower Upper
106 100
91 278.9 191.8 287.8





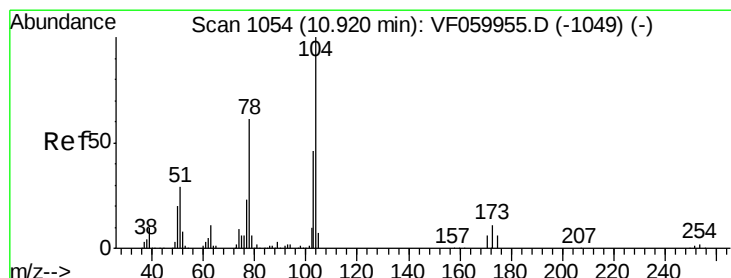
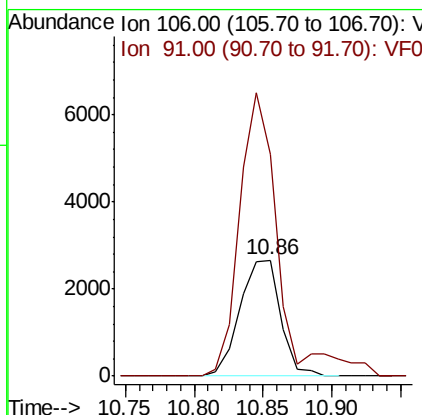
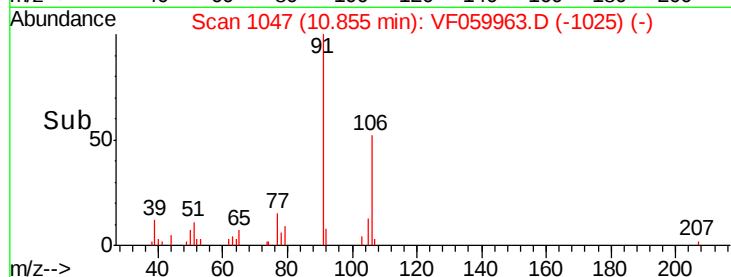
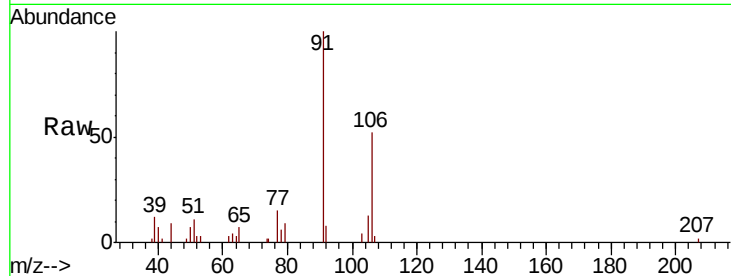
#69
o-Xylene
Concen: 2.38 ug/l
RT: 10.86 min Scan# 1047
Delta R.T. 0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
106	100		
91	191.0	126.8	380.6

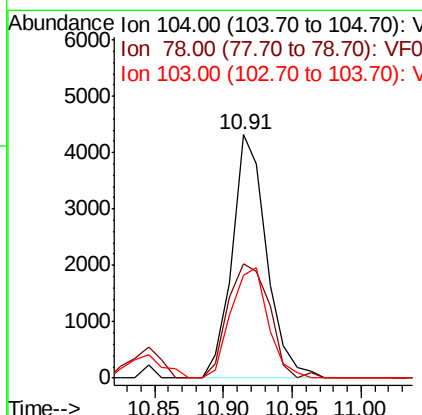
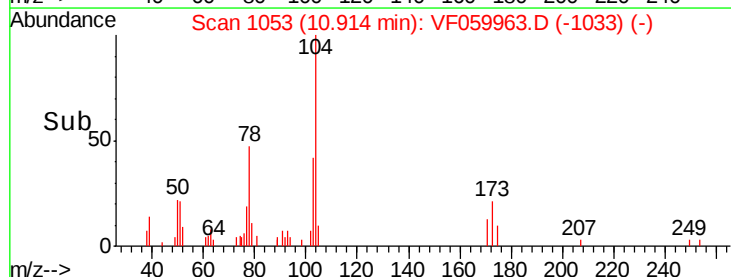
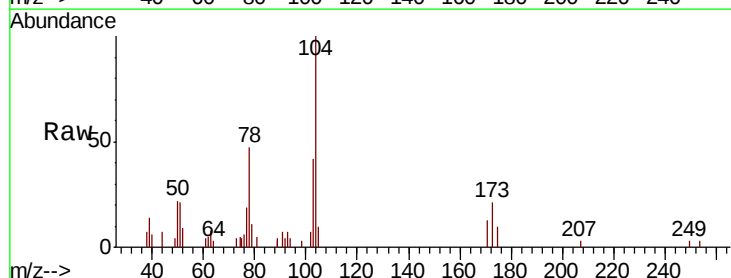
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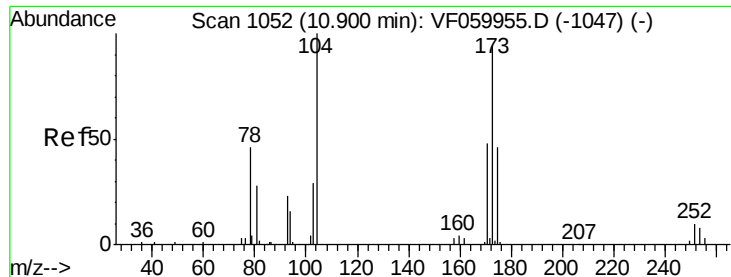
apatel
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#70
Styrene
Concen: 2.20 ug/l
RT: 10.91 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.0	49.2	73.8#
103	42.1	37.4	56.0





#71

Bromoform

Concen: 2.17 ug/l

RT: 10.90 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:173 Resp: 2336

Ion Ratio Lower Upper

173 100

175 45.7 24.6 73.6

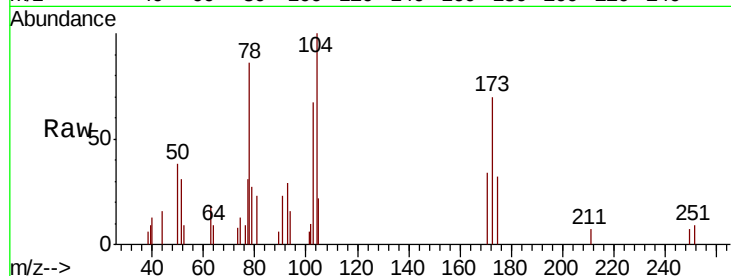
254 0.0 0.0 0.0

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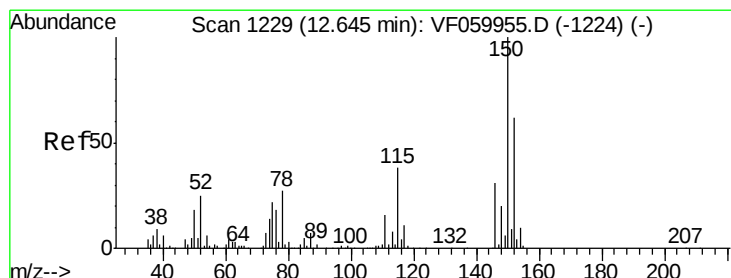
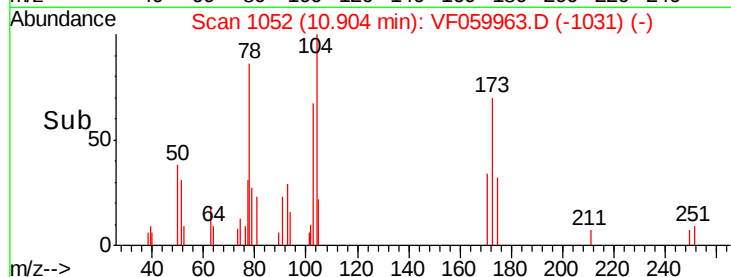
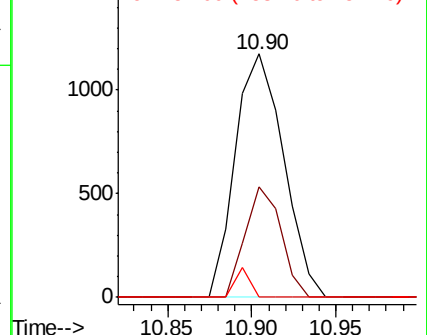


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.65 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

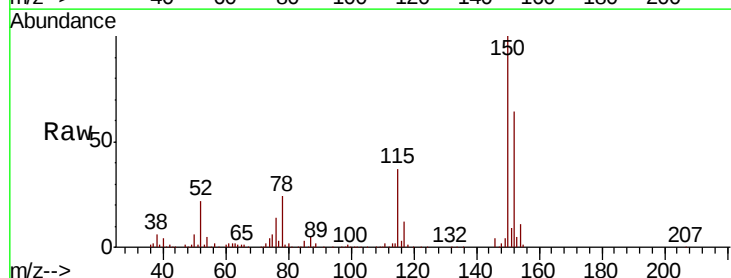
Tgt Ion:152 Resp: 121124

Ion Ratio Lower Upper

152 100

115 57.3 31.4 94.0

150 156.9 0.0 326.2

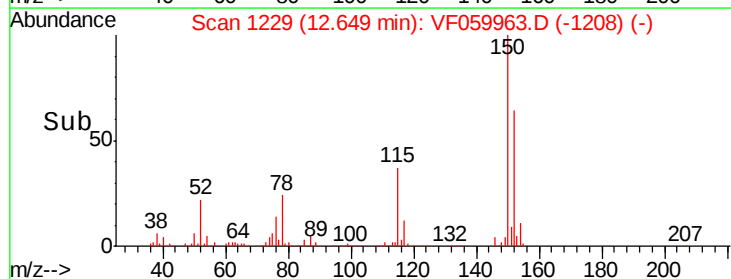
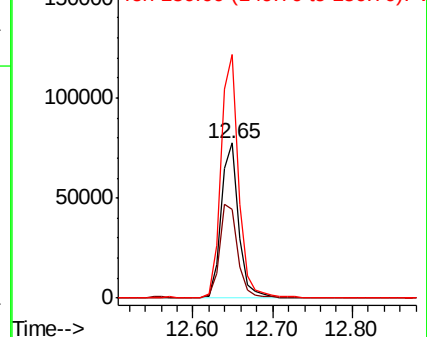


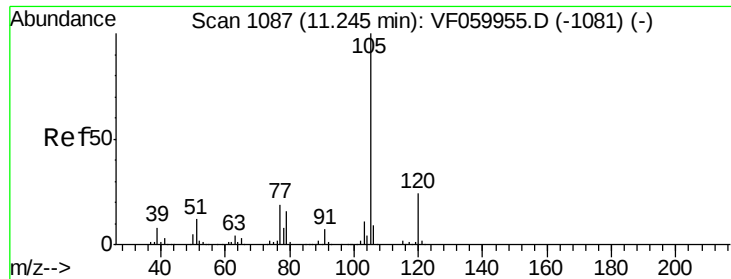
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 1.99 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:105 Resp: 15125

Ion Ratio Lower Upper

105 100

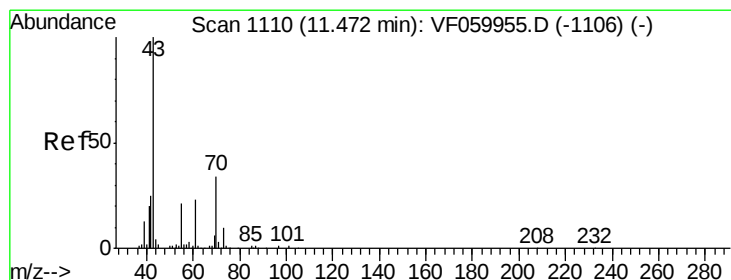
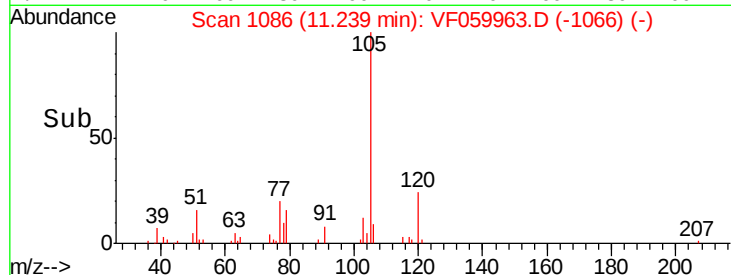
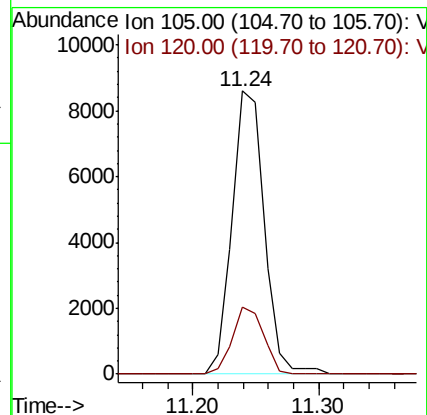
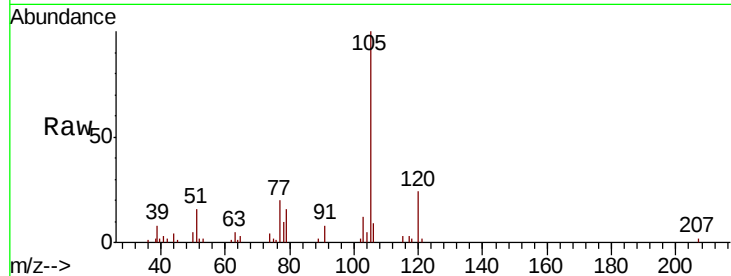
120 23.7 11.9 35.9

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#74

N-ethyl acetate

Concen: 2.37 ug/l

RT: 11.48 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion: 43 Resp: 3979

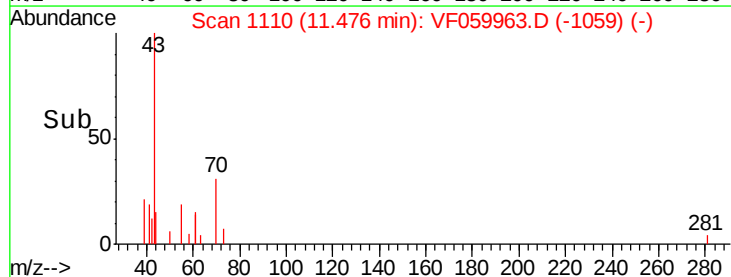
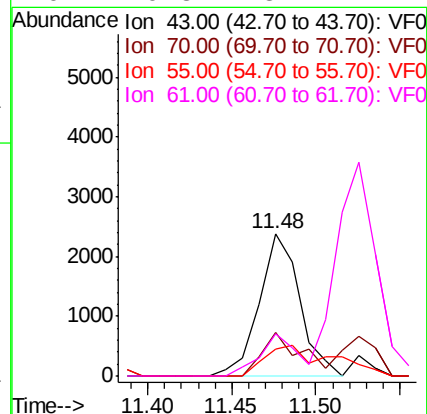
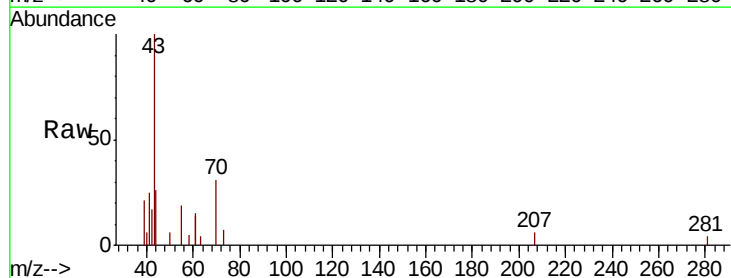
Ion Ratio Lower Upper

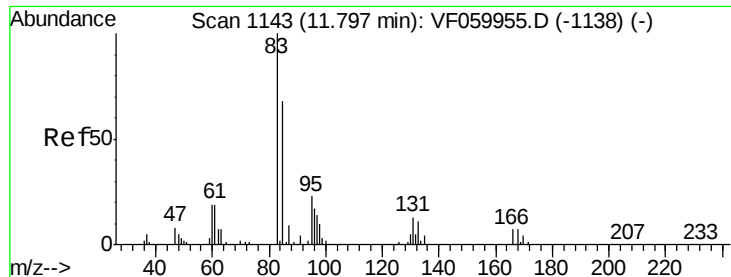
43 100

70 30.7 26.9 40.3

55 19.2 16.9 25.3

61 29.3 18.1 27.1#





#75

1,1,2,2-Tetrachloroethane

Concen: 2.38 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

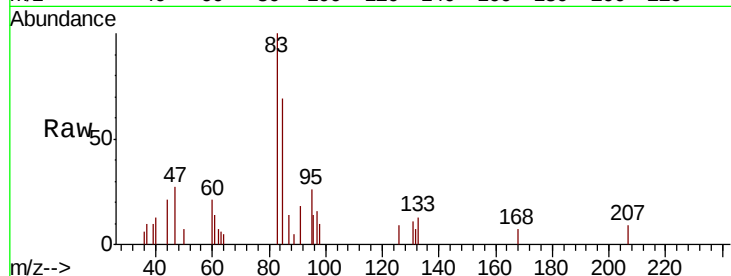
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

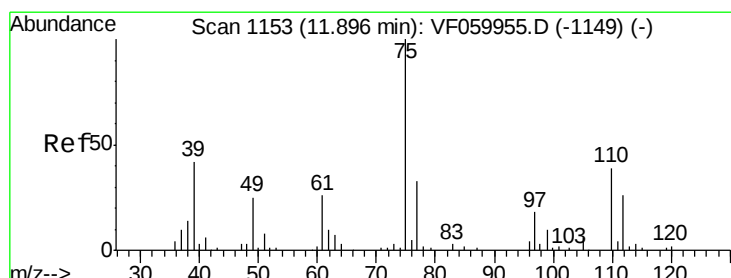
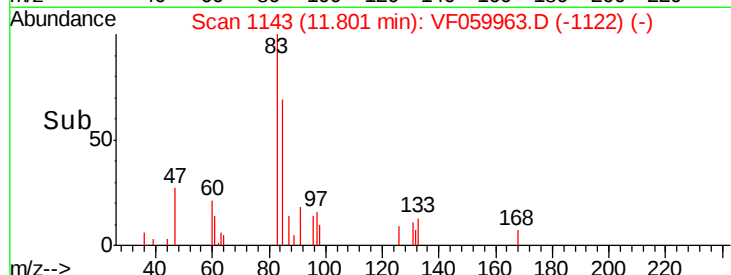
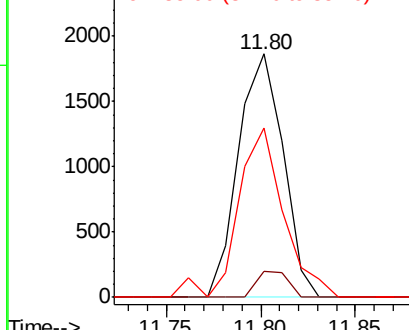
Tot Ion:	83	Resp:	3046
Ion Ratio	Lower	Upper	
83	100		
131	10.7	6.3	19.1
85	69.3	33.9	101.7

Manual Integrations
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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: 2.56 ug/l

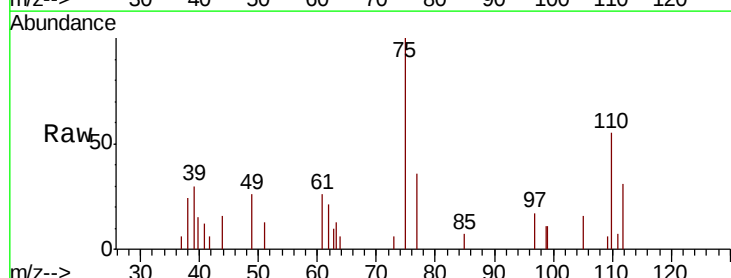
RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

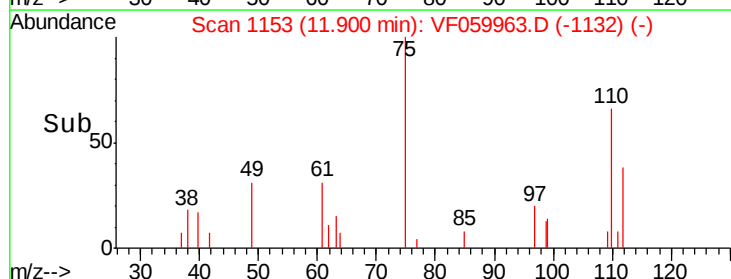
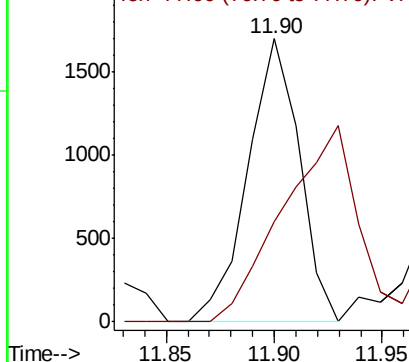
Lab File: VF059963.D

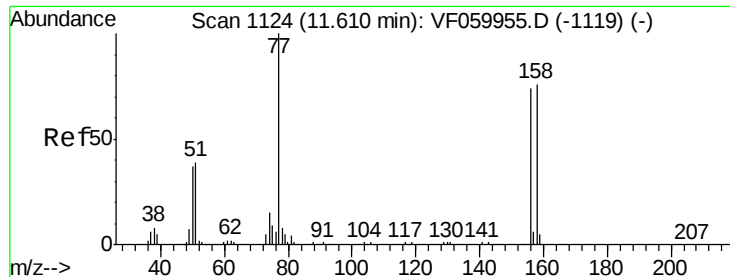
Acq: 15 Aug 2018 00:42

Tgt Ion:	75	Resp:	2823
Ion Ratio	Lower	Upper	
75	100		
77	35.5	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: 2.39 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:156 Resp: 4773

Ion Ratio Lower Upper

156 100

77 108.0 67.8 203.2

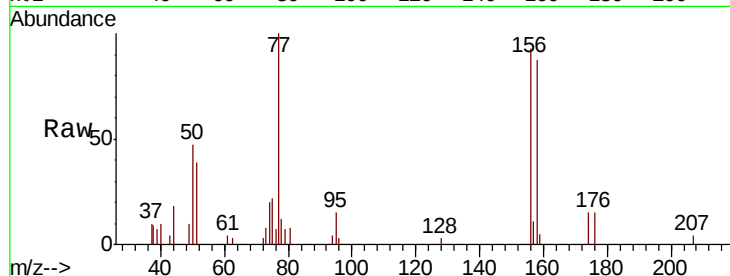
158 94.0 51.7 155.2

Manual Integrations

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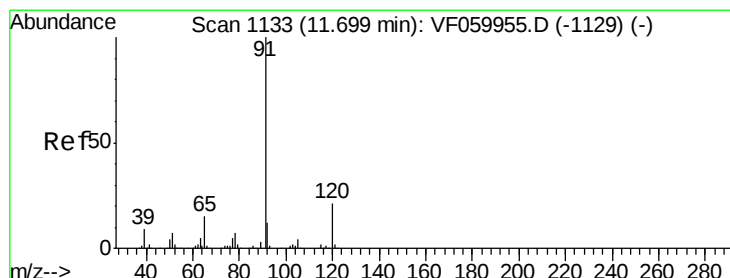
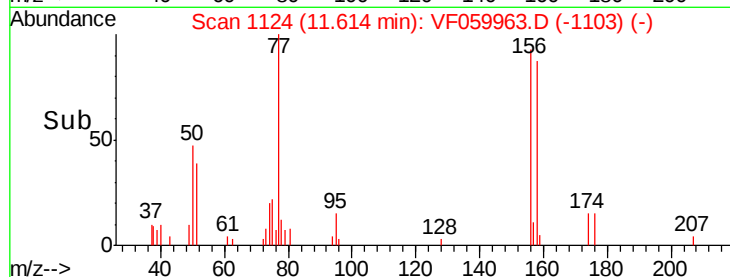
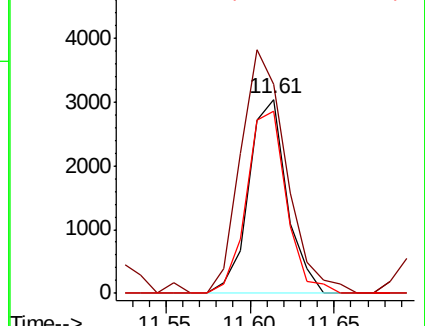
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 2.40 ug/l

RT: 11.70 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF059963.D

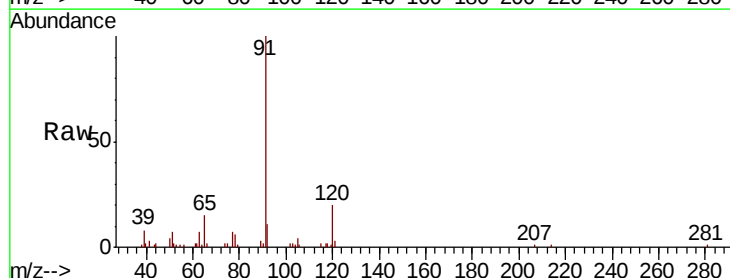
Acq: 15 Aug 2018 00:42

Tgt Ion: 91 Resp: 21455

Ion Ratio Lower Upper

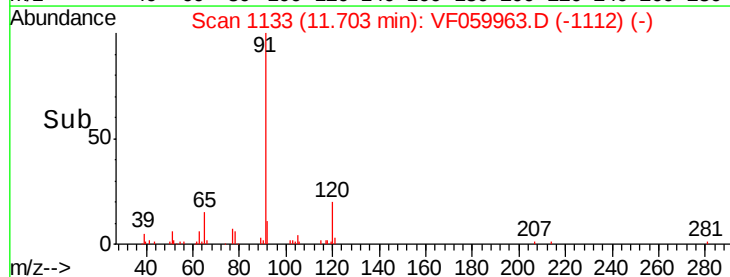
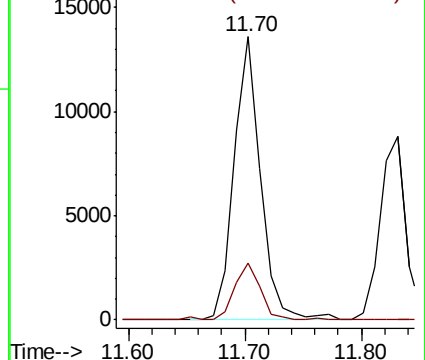
91 100

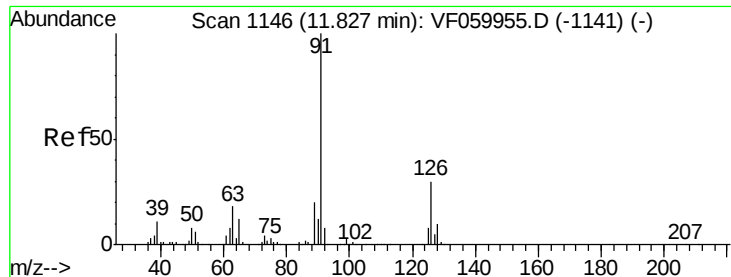
120 20.2 10.4 31.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





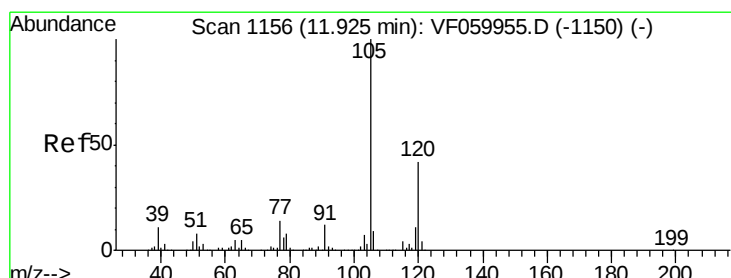
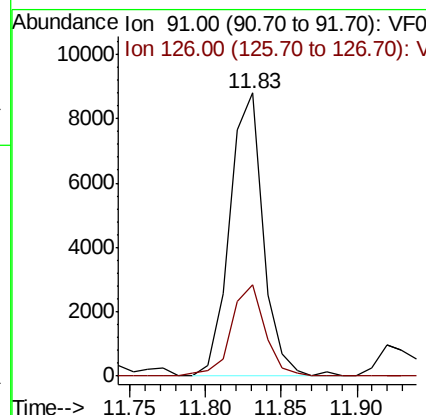
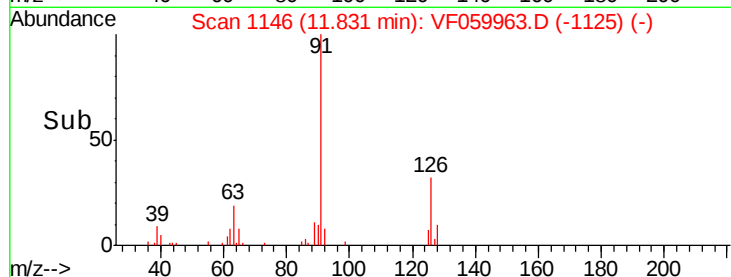
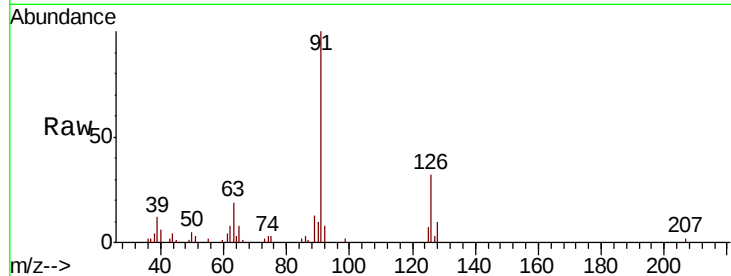
#79
 2-Chlorotoluene
 Concen: 2.42 ug/l
 RT: 11.83 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
91	100		
126	32.4	15.2	45.5

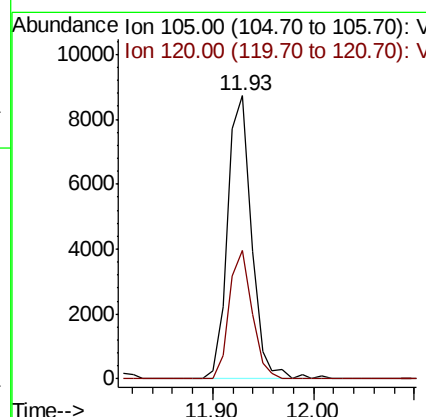
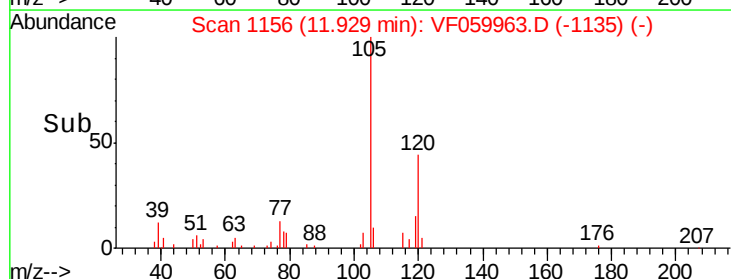
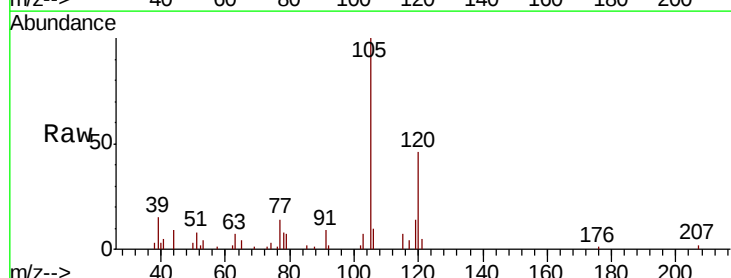
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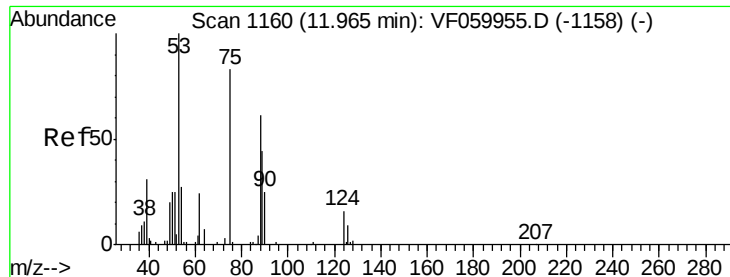
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#80
 1,3,5-Trimethylbenzene
 Concen: 2.04 ug/l
 RT: 11.93 min Scan# 1156
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	21.1	63.3





#81

trans-1,4-Dichloro-2-butene

Concen: 4.02 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. 0.02 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

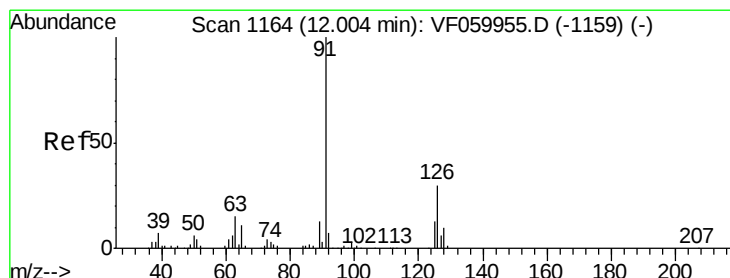
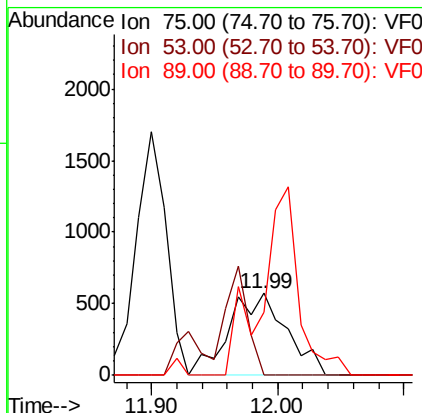
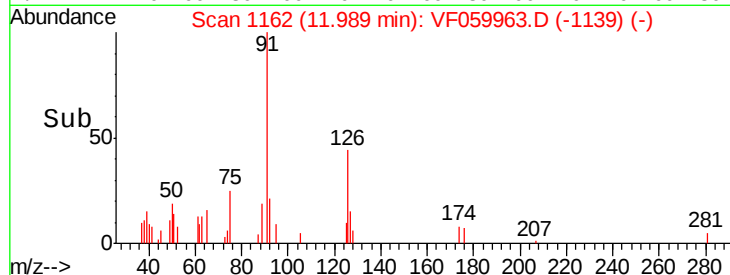
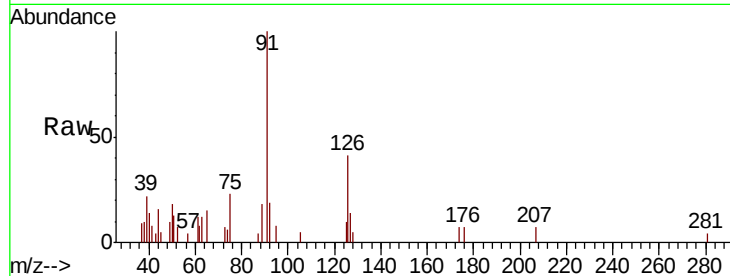
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	75	Resp:	1814
Ion Ratio	Lower	Upper	
75	100		
53	0.0	97.1	145.7#
89	77.8	43.6	65.4#

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#82

4-Chlorotoluene

Concen: 2.24 ug/l

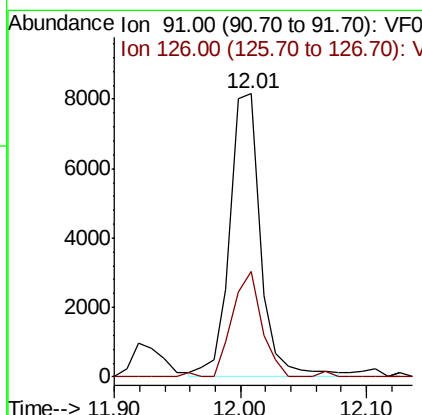
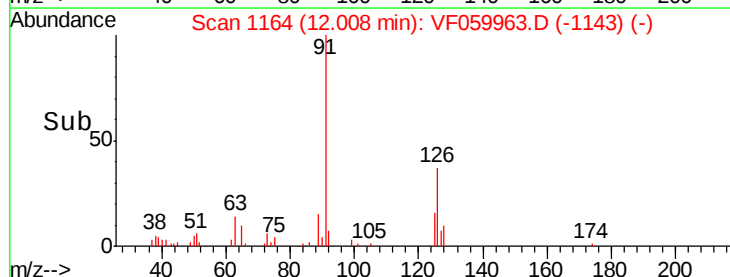
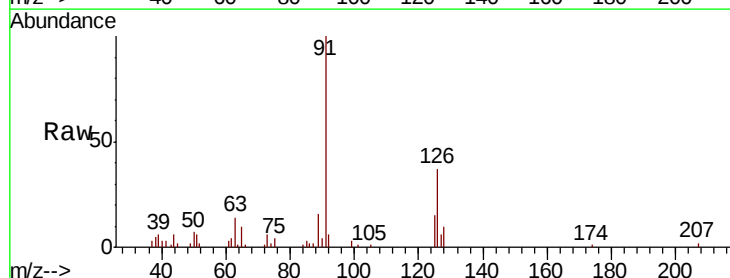
RT: 12.01 min Scan# 1164

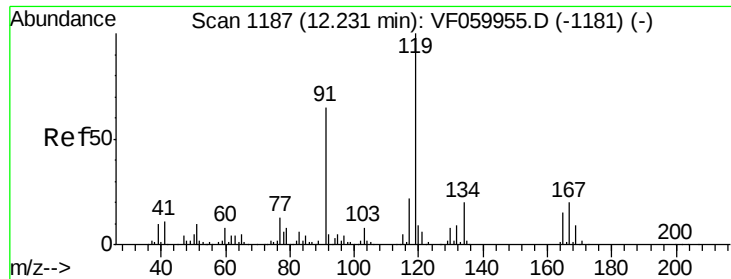
Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	91	Resp:	13850
Ion Ratio	Lower	Upper	
91	100		
126	37.3	15.3	45.8





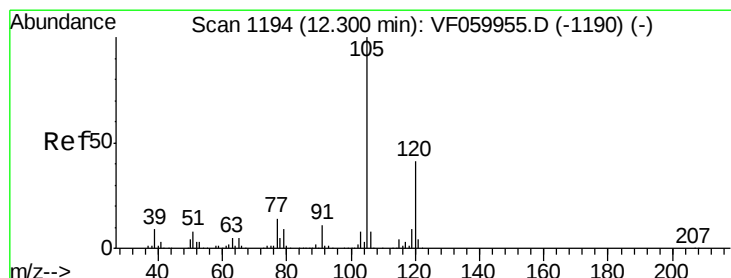
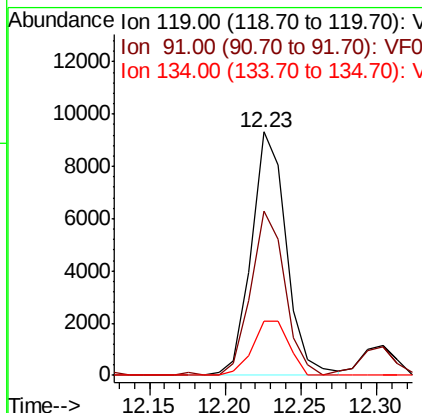
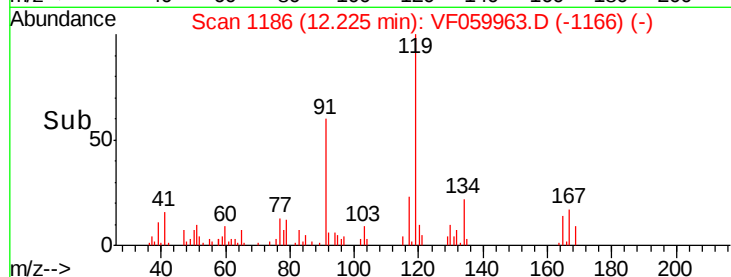
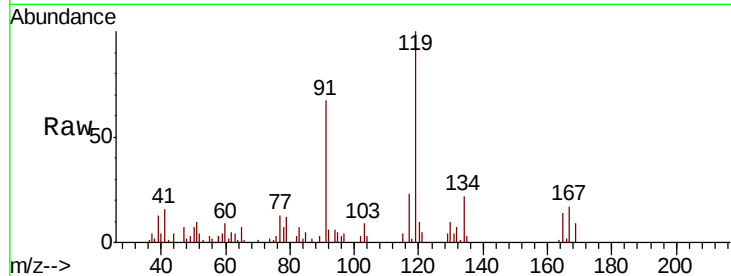
#83
tert-Butylbenzene
Concen: 2.15 ug/l
RT: 12.23 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.2	32.6	98.0
134	22.3	10.1	30.3

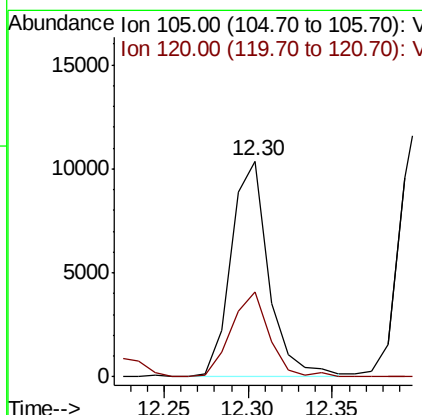
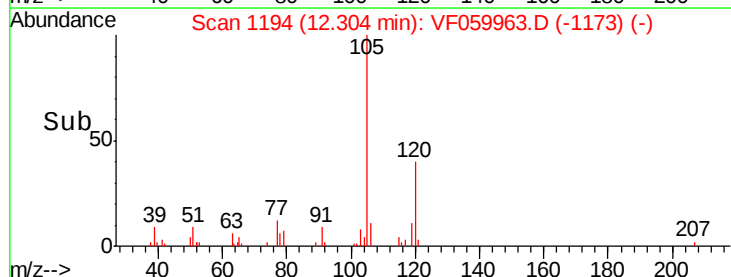
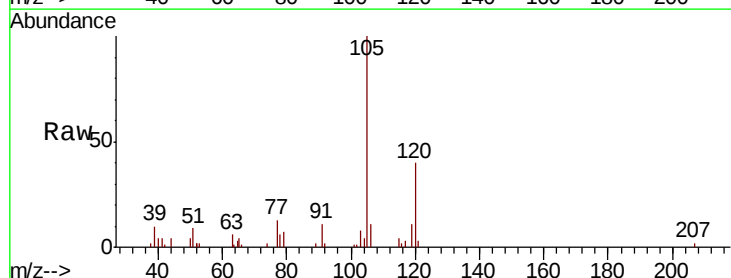
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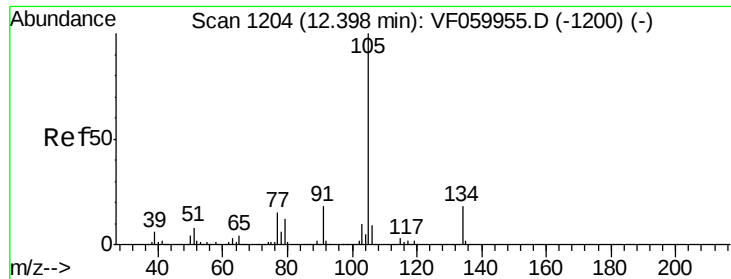
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#84
1,2,4-Trimethylbenzene
Concen: 2.25 ug/l
RT: 12.30 min Scan# 1194
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	39.7	20.6	61.9





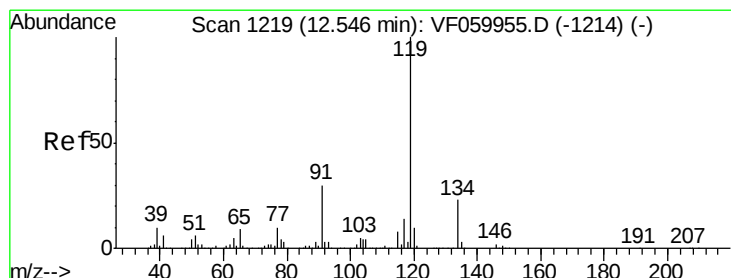
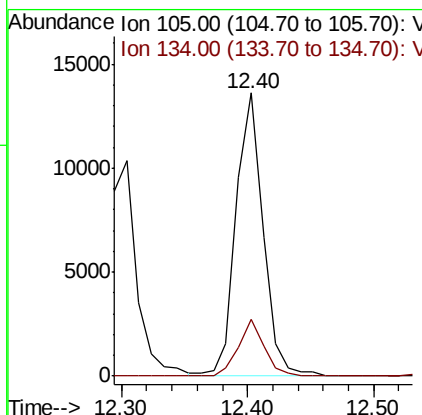
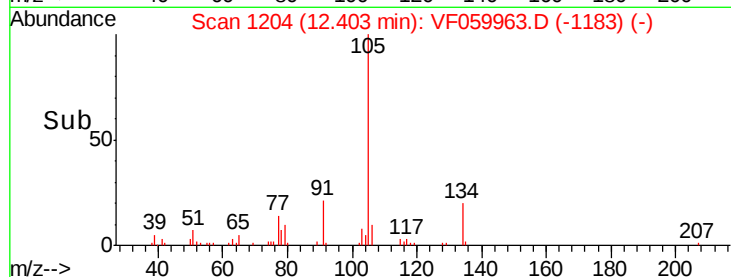
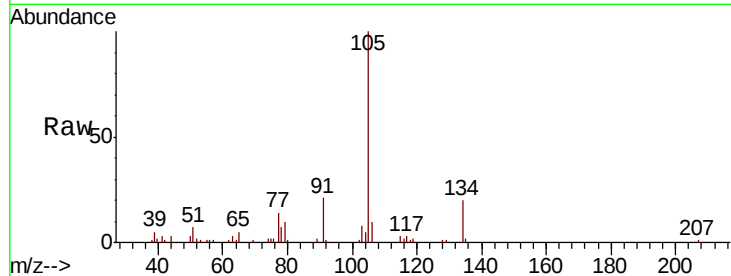
#85
 sec-Butylbenzene
 Concen: 2.27 ug/l
 RT: 12.40 min Scan# 1204
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.0	8.9	26.7

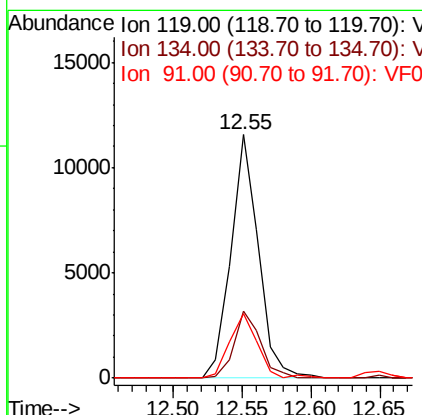
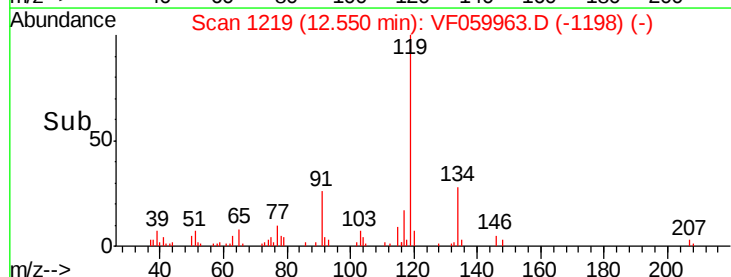
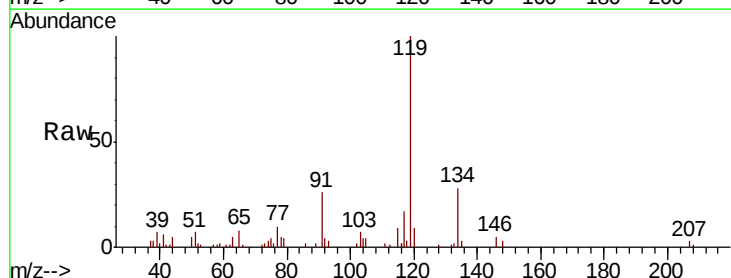
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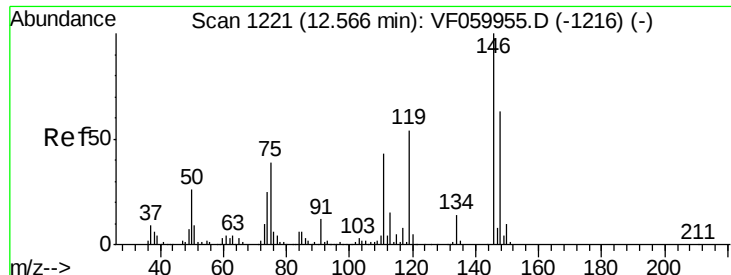
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#86
 p-Isopropyltoluene
 Concen: 2.05 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.6	11.4	34.2
91	26.4	14.8	44.4





#87

1,3-Dichlorobenzene

Concen: 2.76 ug/l

RT: 12.57 min Scan# 1221

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

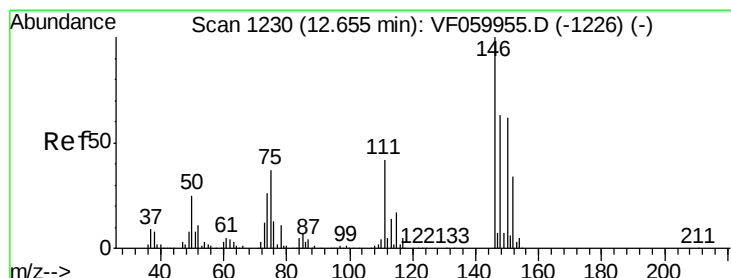
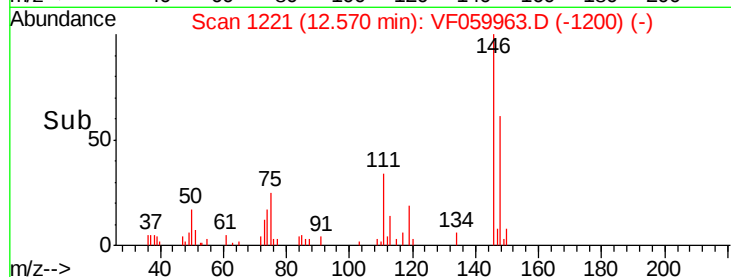
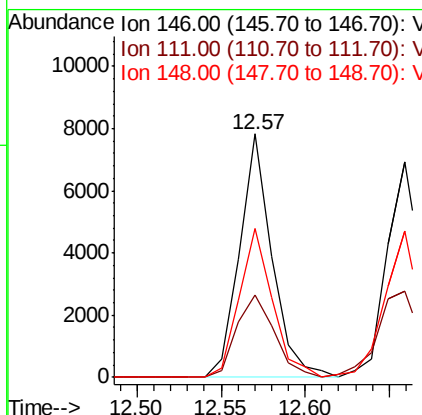
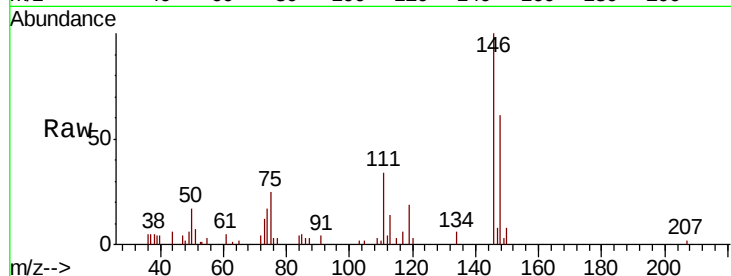
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	146	Resp:	10481
Ion Ratio	Lower	Upper	
146	100		
111	33.6	21.3	63.9
148	61.0	31.4	94.3

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#88

1,4-Dichlorobenzene

Concen: 2.78 ug/l

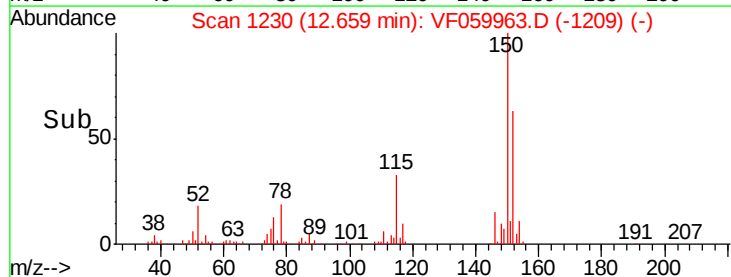
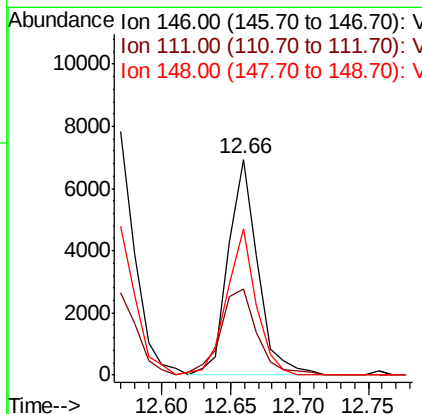
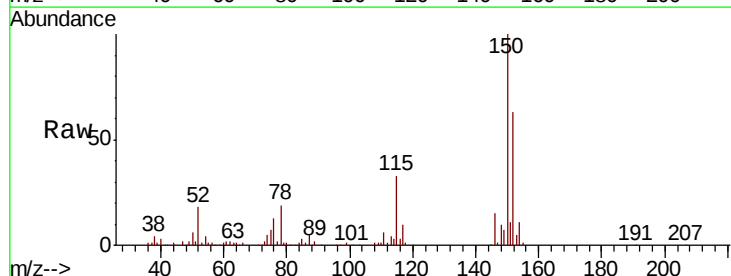
RT: 12.66 min Scan# 1230

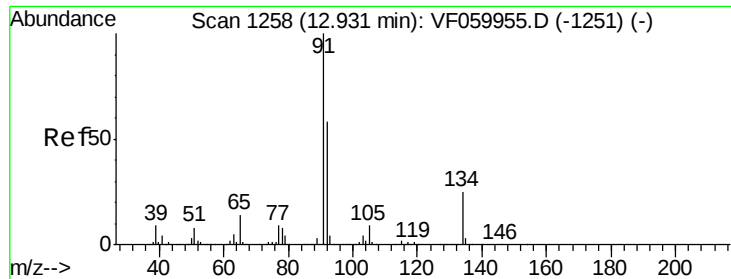
Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	146	Resp:	10374
Ion Ratio	Lower	Upper	
146	100		
111	40.0	21.1	63.1
148	68.0	31.7	95.1





#89

n-Butylbenzene

Concen: 2.09 ug/l

RT: 12.93 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

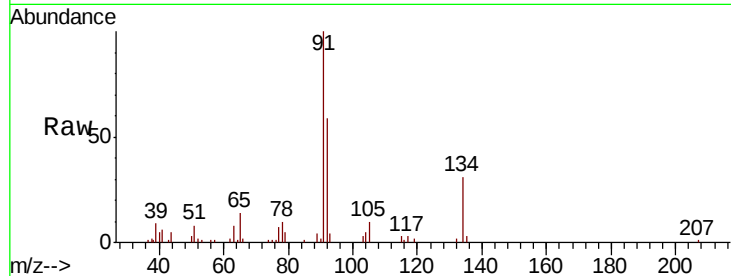
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

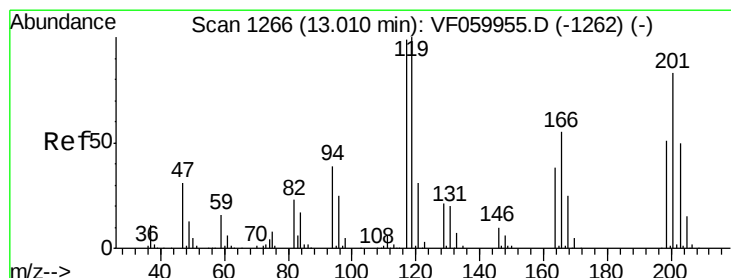
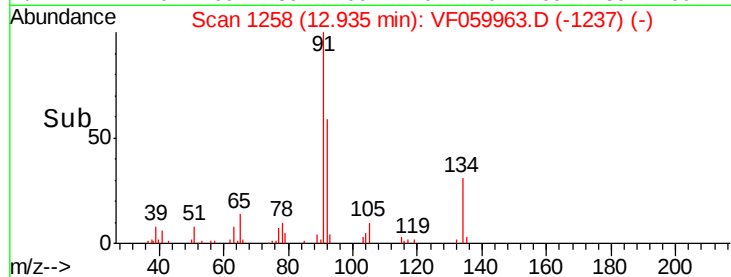
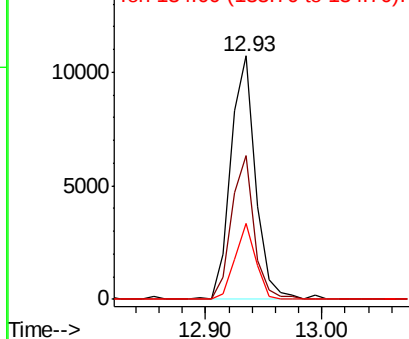
Tot Ion:	91	Resp:	15771
Ion Ratio	Lower	Upper	
91	100		
92	58.9	29.2	87.6
134	31.4	12.8	38.3

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Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 92.00 (91.70 to 92.70): VF0
Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 2.33 ug/l

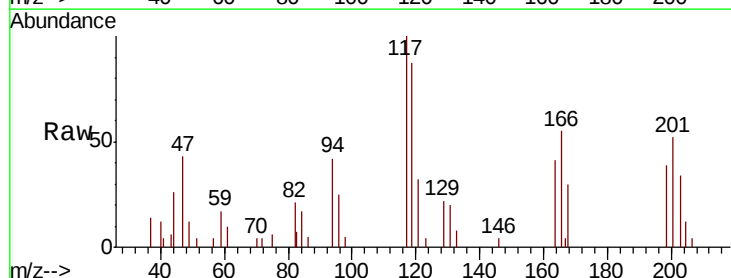
RT: 13.00 min Scan# 1265

Delta R.T. -0.01 min

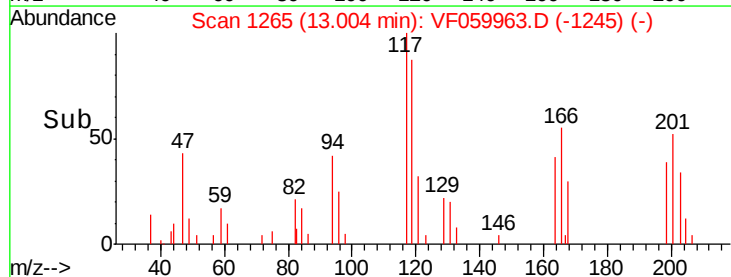
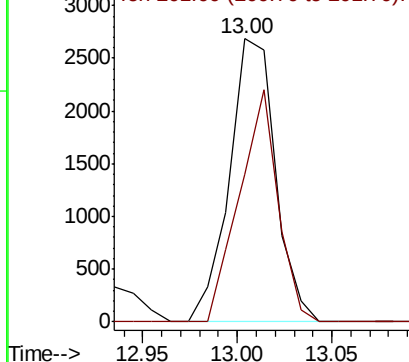
Lab File: VF059963.D

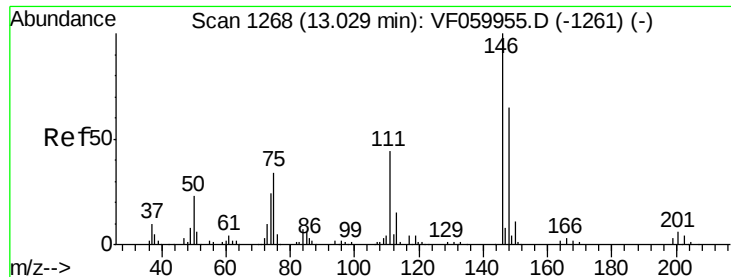
Acq: 15 Aug 2018 00:42

Tgt Ion:	117	Resp:	4532
Ion Ratio	Lower	Upper	
117	100		
201	52.2	41.8	125.3



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 201.00 (200.70 to 201.70): V





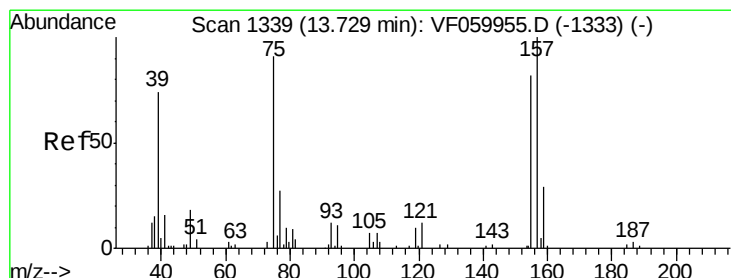
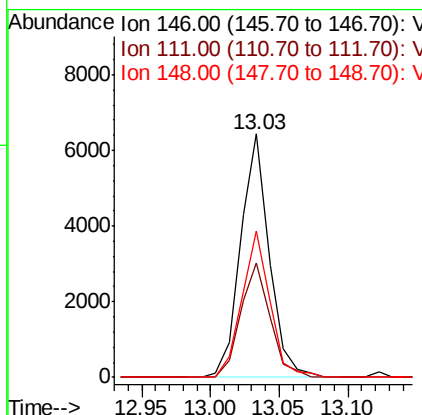
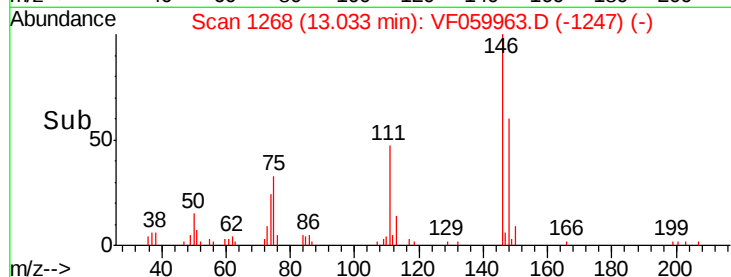
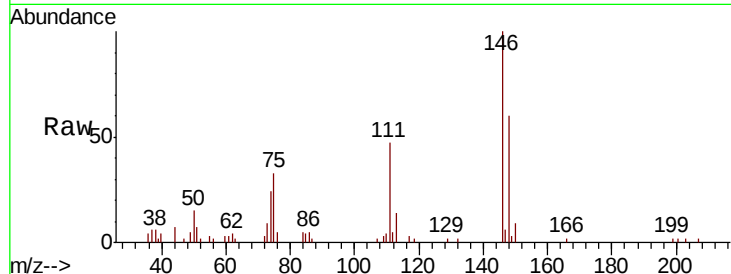
#91
 1,2-Dichlorobenzene
 Concen: 2.54 ug/l
 RT: 13.03 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.9	22.0	66.0
148	60.1	32.4	97.0

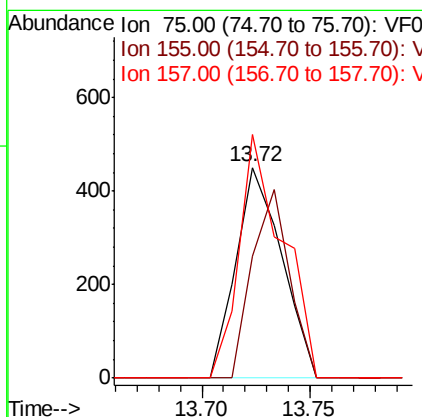
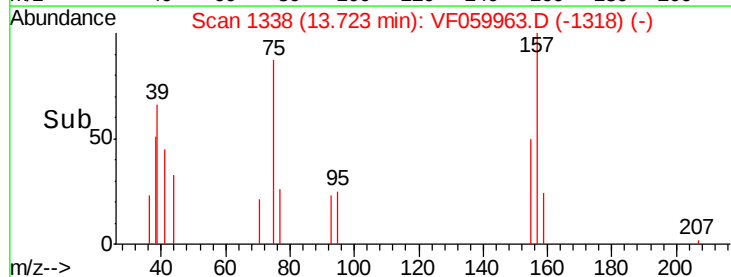
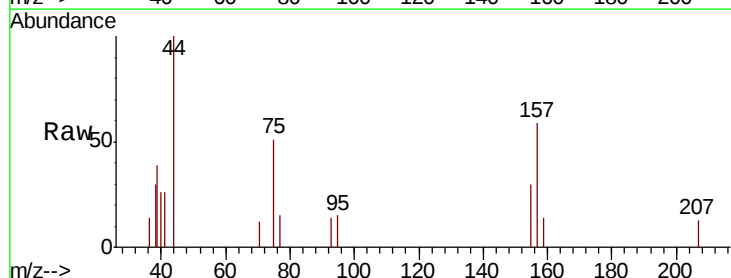
Manual Integrations
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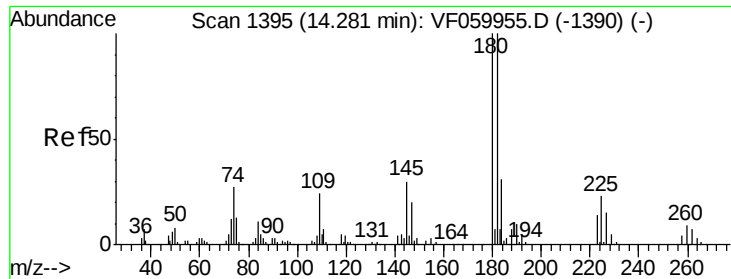
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.93 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	57.6	44.6	134.0
157	115.5	54.8	164.3





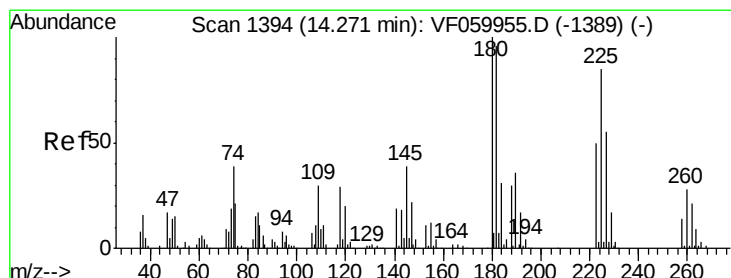
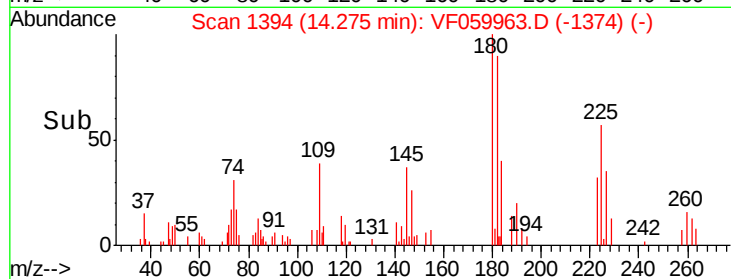
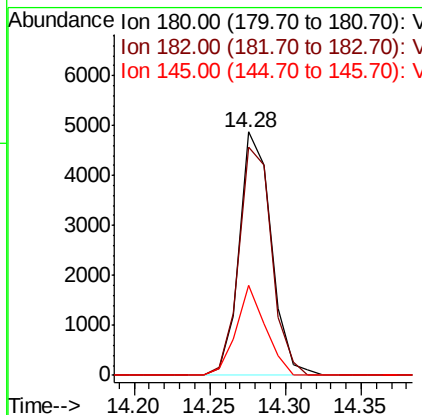
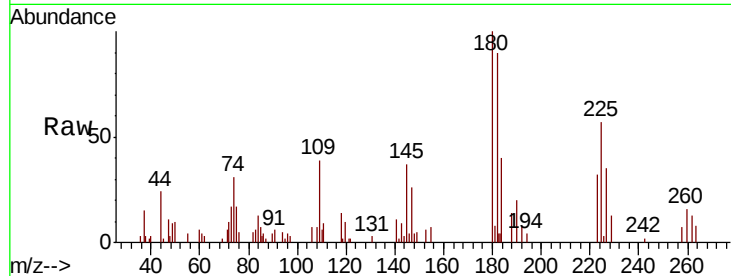
#93
 1,2,4-Trichlorobenzene
 Concen: 2.43 ug/l
 RT: 14.28 min Scan# 1394
 Delta R.T. -0.01 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.7	50.2	150.7
145	37.2	14.9	44.9

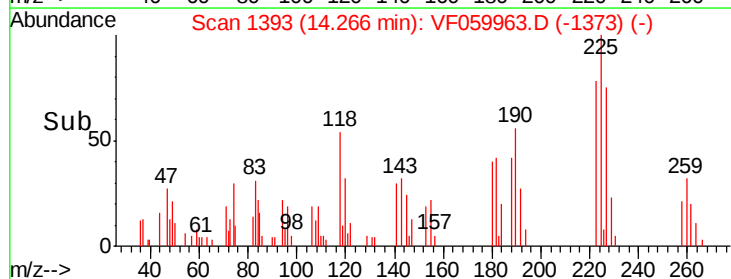
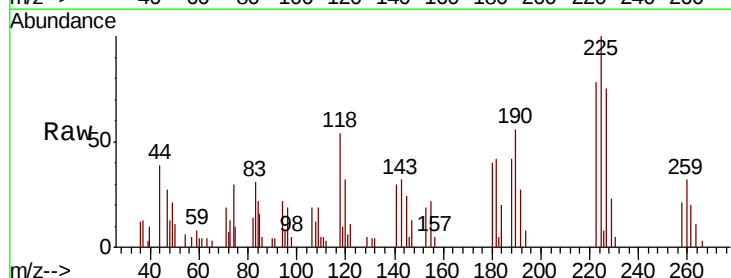
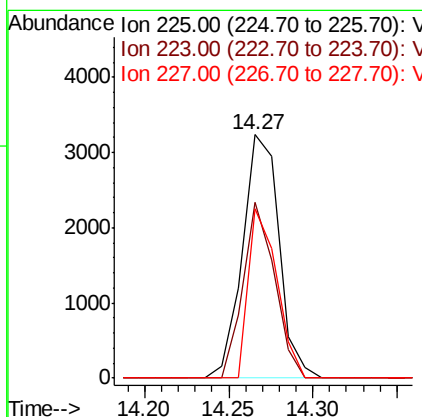
Manual Integrations
 APPROVED

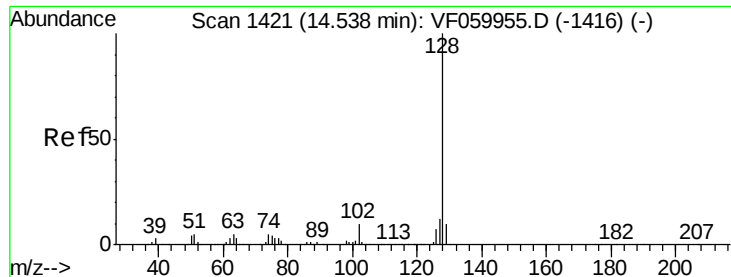
apatel
 8/16/2018 12:17:16 PM



#94
 Hexachlorobutadiene
 Concen: 2.31 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
225	100		
223	72.1	29.6	88.8
227	69.5	32.5	97.5





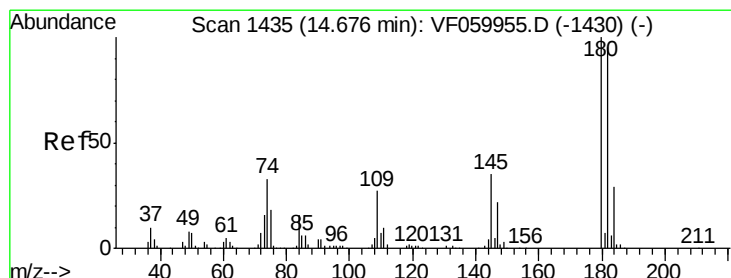
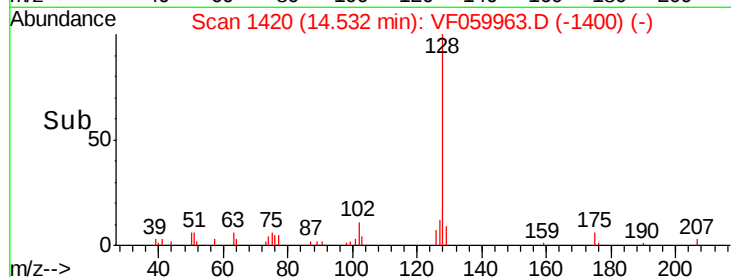
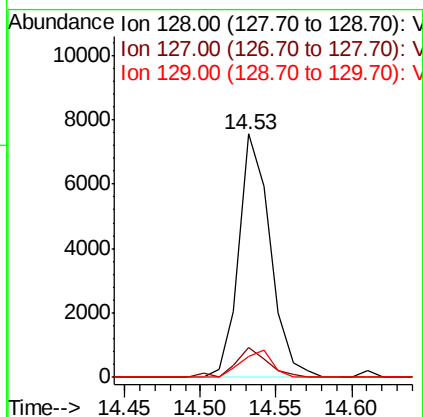
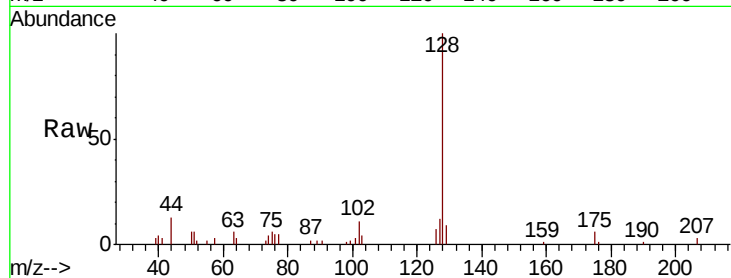
#95
Naphthalene
Concen: 2.27 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.9	14.9
129	8.8	8.4	12.6

Manual Integrations
APPROVED

apatel
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#96
1,2,3-Trichlorobenzene
Concen: 2.41 ug/l
RT: 14.68 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.4	47.5	142.6
145	27.5	17.6	52.8

