

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\
 Data File : VF062204.D
 Acq On : 18 Apr 2019 14:47
 Operator : FY/SY
 Sample : K2241-01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 10:52:18 AM

Quant Time: Apr 19 10:47:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 03:45:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	444643	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.77	114	663311	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	491289	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	306929	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	226761	55.62	ug/l	0.02
Spiked Amount	50.000		Recovery	=	111.24%	
35) Dibromofluoromethane	4.30	113	306196	52.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.54%	
50) Toluene-d8	7.71	98	731770	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	
62) 4-Bromofluorobenzene	11.49	95	320398	56.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.42%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	16106	2.384	ug/l	94
3) Chloromethane	1.16	50	15360	2.199	ug/l	92
4) Vinyl Chloride	1.19	62	16154	2.692	ug/l	98
5) Bromomethane	1.39	94	10321	2.961	ug/l	82
6) Chloroethane	1.44	64	7053	2.812	ug/l	90
7) Trichlorofluoromethane	1.56	101	17134	2.248	ug/l	91
8) Diethyl Ether	1.71	74	4779	3.012	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.91	101	13983	2.685	ug/l	97
10) Methyl Iodide	1.98	142	22410	2.422	ug/l #	84
11) Tert butyl alcohol	2.70	59	3368	11.884	ug/l #	65
12) 1,1-Dichloroethene	1.87	96	13615	2.749	ug/l	90
13) Acrolein	2.11	56	2789	16.241	ug/l	99
14) Allyl chloride	2.19	41	13930	2.451	ug/l	97
15) Acrylonitrile	3.08	53	11271	13.057	ug/l #	92
16) Acetone	2.34	43	15623	16.031	ug/l	92
17) Carbon Disulfide	1.91	76	30979	2.251	ug/l #	87
18) Methyl Acetate	2.46	43	6456m	2.407	ug/l	
19) Methyl tert-butyl Ether	2.55	73	20716	2.369	ug/l	100
20) Methylene Chloride	2.33	84	31652	5.092	ug/l	93
21) trans-1,2-Dichloroethene	2.42	96	12633	2.579	ug/l #	94
22) Diisopropyl ether	2.93	45	34457	2.370	ug/l #	89
23) Vinyl Acetate	3.35	43	81814	11.809	ug/l	98
24) 1,1-Dichloroethane	3.01	63	19446	2.445	ug/l #	97
25) 2-Butanone	4.53	43	26381	13.538	ug/l	93
26) 2,2-Dichloropropane	3.78	77	9137	2.275	ug/l #	67
27) cis-1,2-Dichloroethene	3.64	96	15121	2.384	ug/l	96
28) Bromochloromethane	3.91	49	9914	2.602	ug/l #	93
29) Tetrahydrofuran	4.27	42	12876	14.598	ug/l	97
30) Chloroform	4.06	83	23167	2.370	ug/l	99
31) Cyclohexane	3.87	56	21023	2.205	ug/l	97
32) 1,1,1-Trichloroethane	4.28	97	13549	1.894	ug/l	95
36) 1,1-Dichloropropene	4.47	75	18169	2.285	ug/l #	89
37) Ethyl Acetate	4.29	43	10831	2.886	ug/l #	95
38) Carbon Tetrachloride	4.19	117	15188m	2.158	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	22447	2.357	ug/l	94
40) Benzene	4.82	78	47211	2.263	ug/l	99
41) Methacrylonitrile	4.94	41	7060	3.261	ug/l #	75
42) 1,2-Dichloroethane	5.13	62	13202	2.394	ug/l #	74
43) Isopropyl Acetate	7.11	43	16520	4.185	ug/l #	95
44) Trichloroethene	5.68	130	14211	2.521	ug/l	96
45) 1,2-Dichloropropane	6.40	63	11516	2.506	ug/l	100
46) Dibromomethane	6.26	93	7707	2.521	ug/l	88
47) Bromodichloromethane	6.55	83	16633	2.411	ug/l	97
48) Methyl methacrylate	6.88	41	8173	3.151	ug/l #	91
49) 1,4-Dioxane	6.89	88	1766	59.366	ug/l #	65
51) 4-Methyl-2-Pentanone	8.40	43	60021	20.445	ug/l	97
52) Toluene	7.78	92	27094	2.464	ug/l	96
53) t-1,3-Dichloropropene	8.42	75	12965	2.502	ug/l #	86
54) cis-1,3-Dichloropropene	7.46	75	18575	2.650	ug/l	99
55) 1,1,2-Trichloroethane	8.64	97	8841	2.870	ug/l	91
56) Ethyl methacrylate	8.76	69	18480	5.277	ug/l	96
57) 1,3-Dichloropropane	8.99	76	11989	2.410	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.45	63	18153	17.853	ug/l	96
59) 2-Hexanone	9.63	43	55331	28.605	ug/l	98
60) Dibromochloromethane	8.86	129	11296	2.466	ug/l	99
61) 1,2-Dibromoethane	9.12	107	8537	2.460	ug/l	88
64) Tetrachloroethene	8.31	164	12036	2.714	ug/l	94
65) Chlorobenzene	9.93	112	29307	2.798	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.06	131	12620	2.573	ug/l	94
67) Ethyl Benzene	10.03	91	52986	2.782	ug/l	98
68) m/p-Xylenes	10.26	106	39553	5.640	ug/l	93
69) o-Xylene	10.82	106	20520	2.636	ug/l	89
70) Styrene	10.89	104	33401	3.040	ug/l	98
71) Bromoform	10.88	173	6197	2.393	ug/l #	92
73) Isopropylbenzene	11.21	105	61328	2.326	ug/l	97
74) N-amyl acetate	11.45	43	34366	4.932	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.77	83	12069	2.662	ug/l	93
76) 1,2,3-Trichloropropane	11.86	75	8203	2.630	ug/l #	64
77) Bromobenzene	11.58	156	13294	2.354	ug/l	97
78) n-propylbenzene	11.67	91	73067	2.627	ug/l	97
79) 2-Chlorotoluene	11.80	91	42709	2.531	ug/l	98
80) 1,3,5-Trimethylbenzene	11.89	105	53353	2.430	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.93	75	4547m	2.858	ug/l	
82) 4-Chlorotoluene	11.97	91	44202	2.711	ug/l	98
83) tert-Butylbenzene	12.20	119	52603	2.316	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	54166	2.549	ug/l	95
85) sec-Butylbenzene	12.37	105	72036	2.443	ug/l	98
86) p-Isopropyltoluene	12.52	119	66178	2.646	ug/l	97
87) 1,3-Dichlorobenzene	12.54	146	29459	2.811	ug/l	95
88) 1,4-Dichlorobenzene	12.62	146	27184	2.689	ug/l	89
89) n-Butylbenzene	12.90	91	65449	2.730	ug/l	95
90) Hexachloroethane	12.97	117	14414	2.244	ug/l	99
91) 1,2-Dichlorobenzene	13.00	146	26483	2.617	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.69	75	1728	1.940	ug/l	82

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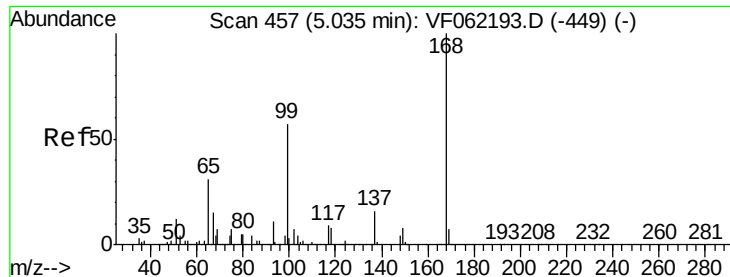
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	22843	2.698	ug/l	99
94) Hexachlorobutadiene	14.23	225	14447	2.488	ug/l	95
95) Naphthalene	14.50	128	51296	3.465	ug/l	98
96) 1,2,3-Trichlorobenzene	14.63	180	21141	2.601	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:168 Resp: 444643

Ion Ratio Lower Upper

168 100

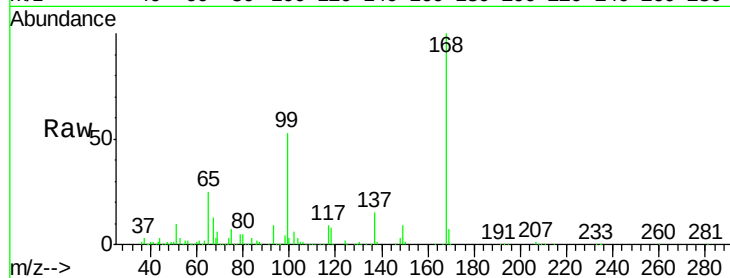
99 52.9 45.5 68.3

Manual Integrations

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4/19/2019 10:52:18 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.05

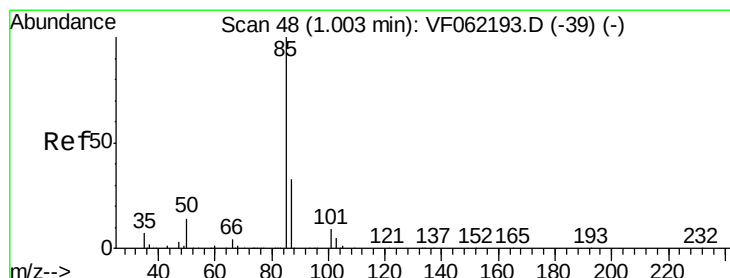
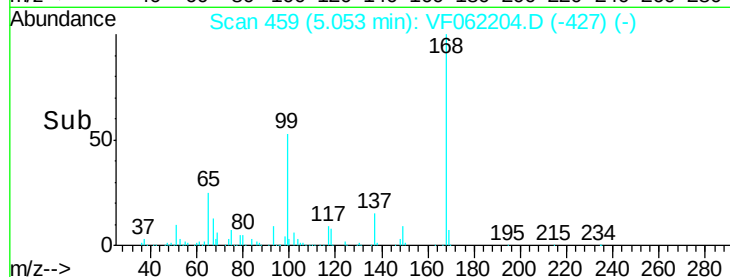
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.384 ug/l

RT: 1.00 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062204.D

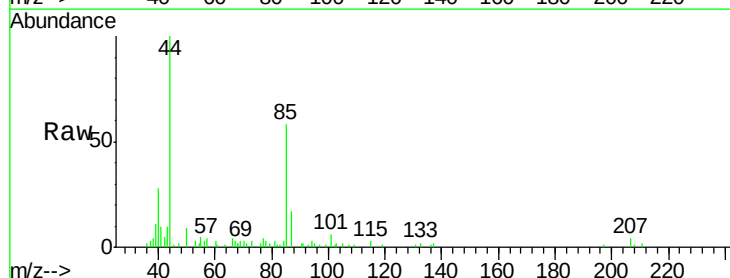
Acq: 18 Apr 2019 14:47

Tgt Ion: 85 Resp: 16106

Ion Ratio Lower Upper

85 100

87 29.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

6000

5000

4000

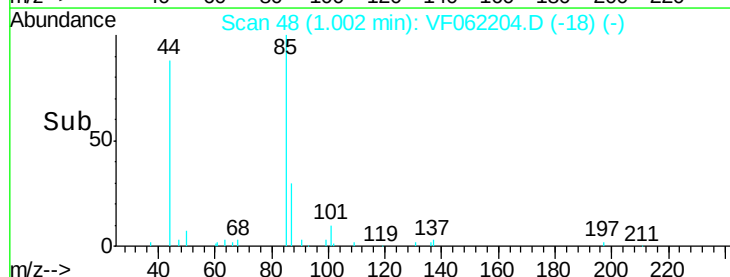
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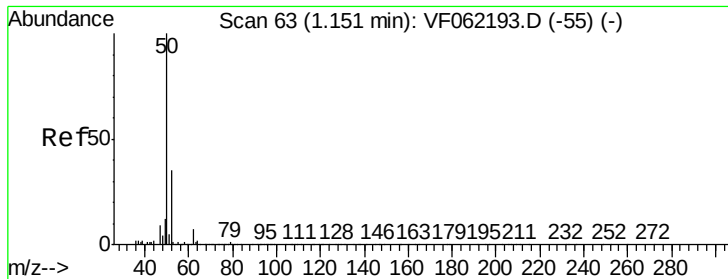
2000

1000

0

Time-->





#3

Chloromethane

Concen: 2.199 ug/l

RT: 1.16 min Scan# 64

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 50 Resp: 15360

Ion Ratio Lower Upper

50 100

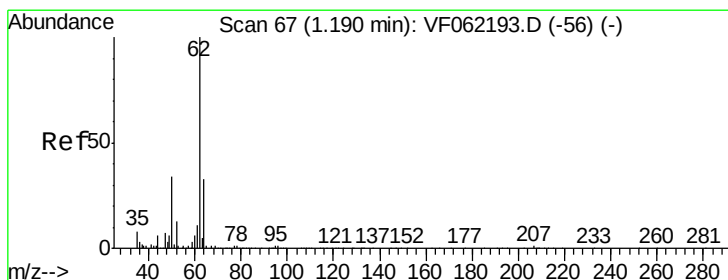
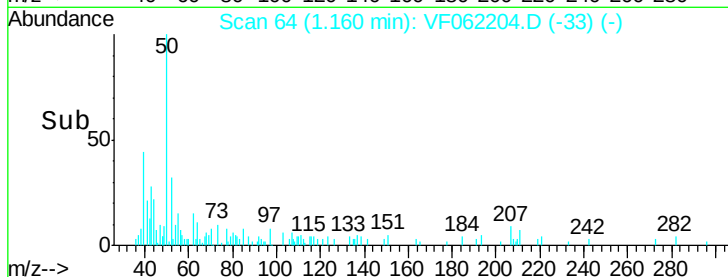
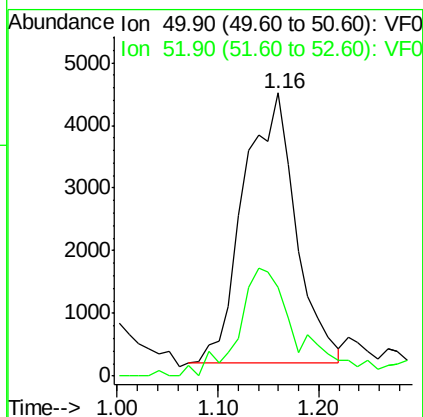
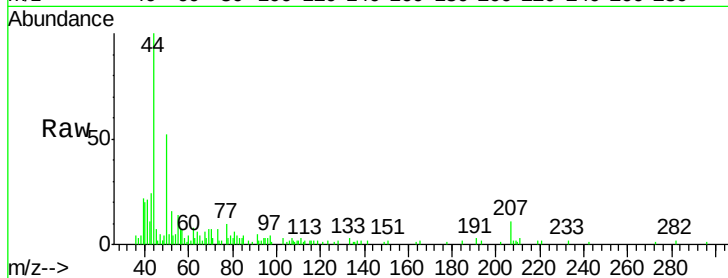
52 29.1 27.0 40.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.692 ug/l

RT: 1.19 min Scan# 67

Delta R.T. -0.00 min

Lab File: VF062204.D

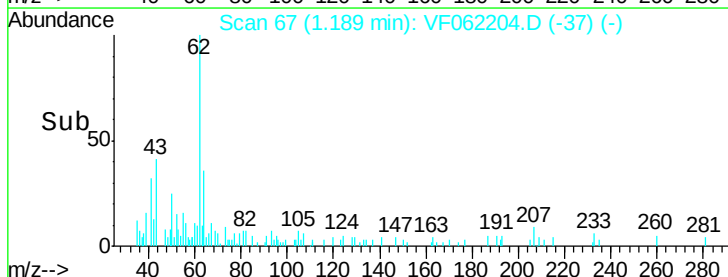
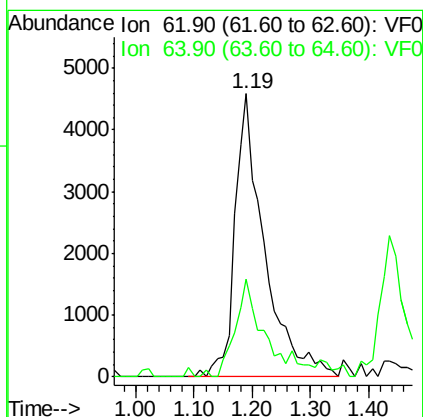
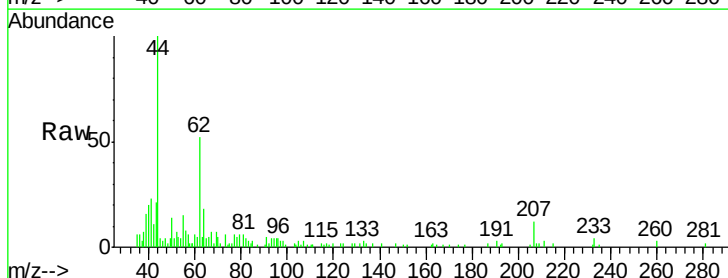
Acq: 18 Apr 2019 14:47

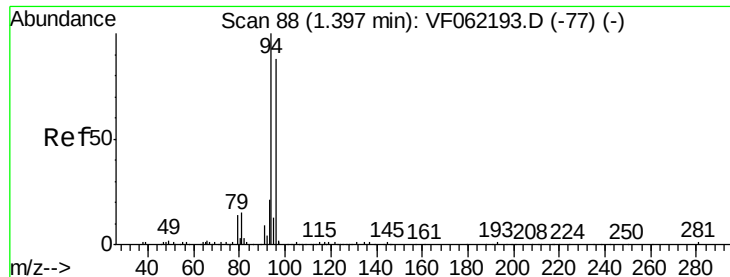
Tgt Ion: 62 Resp: 16154

Ion Ratio Lower Upper

62 100

64 31.5 26.2 39.4





#5

Bromomethane

Concen: 2.961 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

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Tot Ion: 94 Resp: 10321

Ion Ratio Lower Upper

94 100

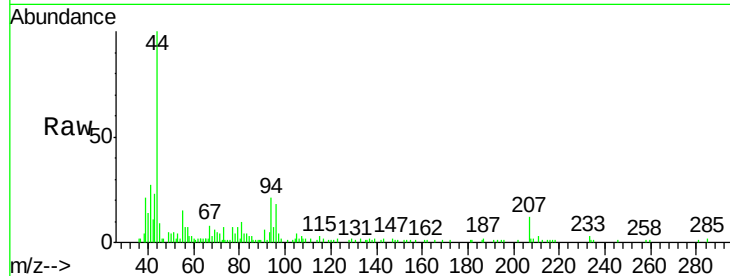
96 71.2 70.2 105.4

Manual Integrations

APPROVED

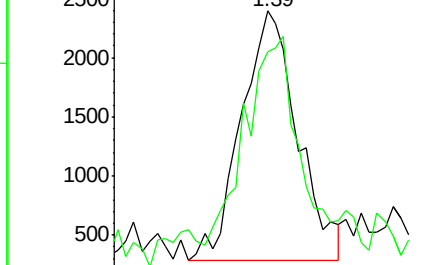
MMDadoda

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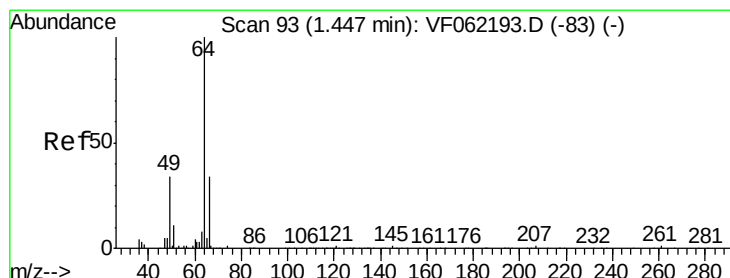
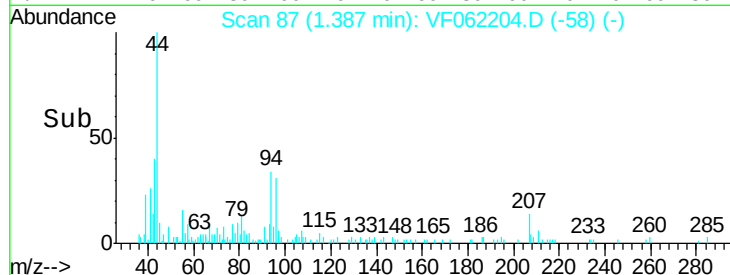


Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



Time-->



#6

Chloroethane

Concen: 2.812 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062204.D

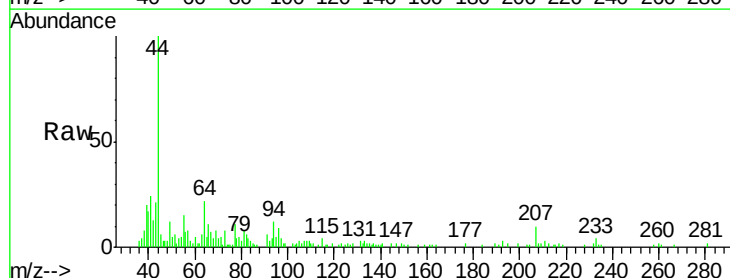
Acq: 18 Apr 2019 14:47

Tgt Ion: 64 Resp: 7053

Ion Ratio Lower Upper

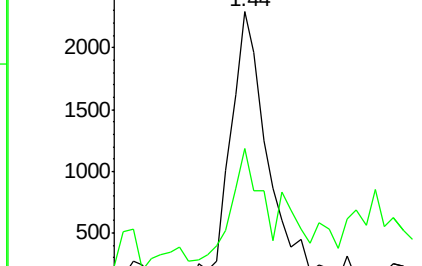
64 100

66 39.6 27.0 40.4

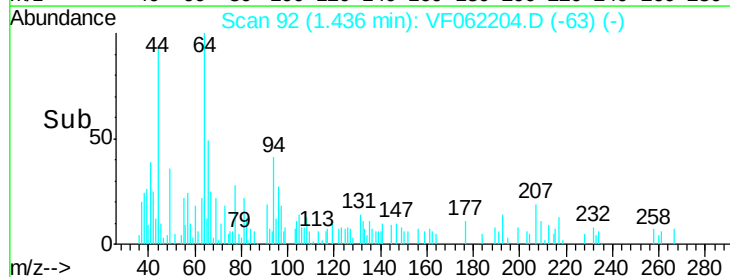


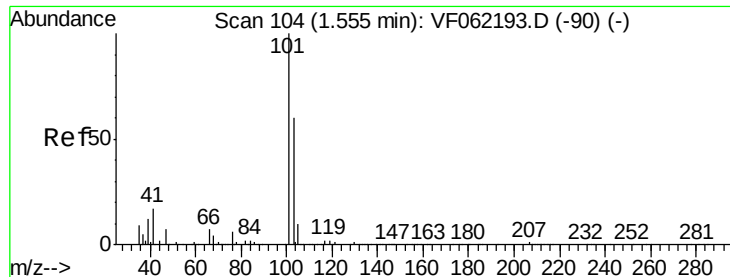
Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



Time-->





#7

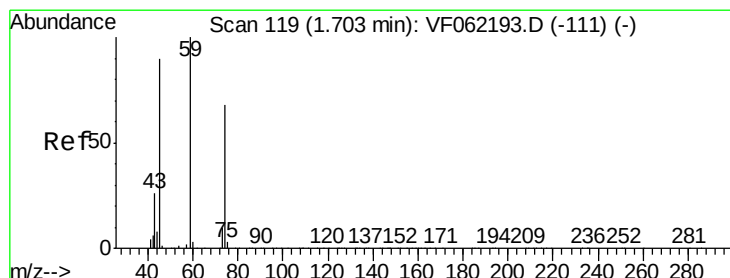
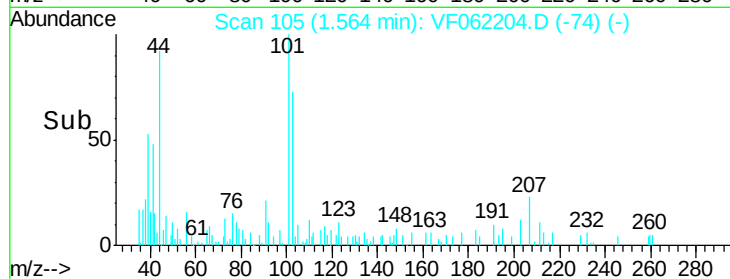
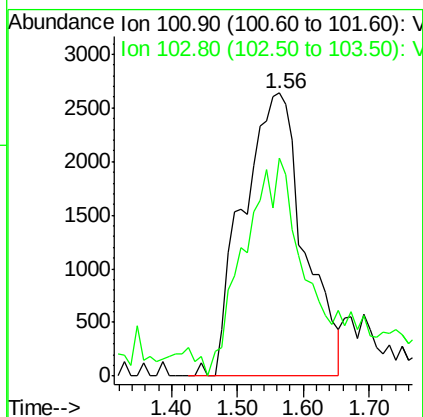
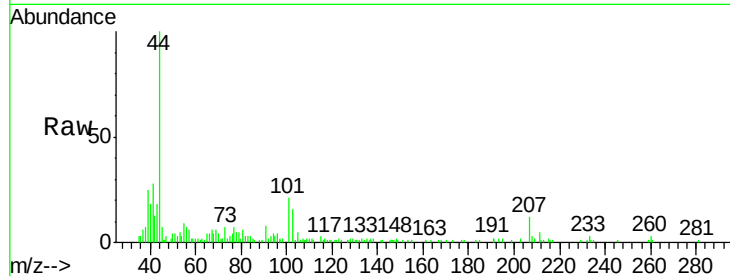
Trichlorofluoromethane
Concen: 2.248 ug/l
RT: 1.56 min Scan# 105
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.8	48.2	72.4

Manual Integrations
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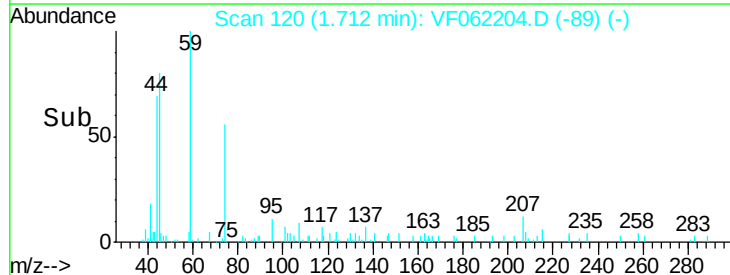
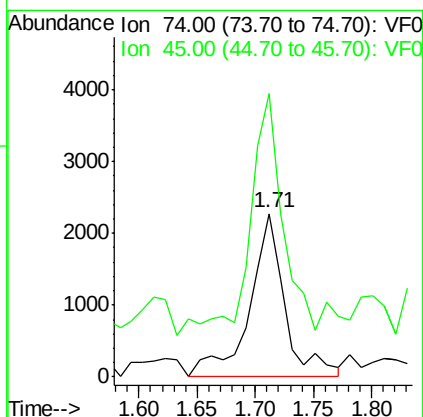
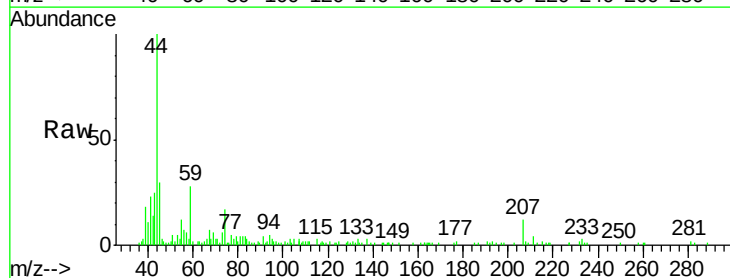
MMDadoda
4/19/2019 10:52:18 AM

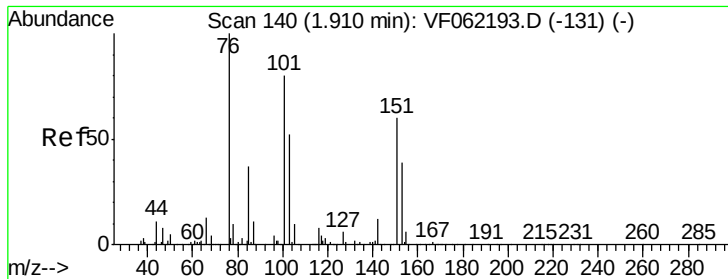


#8

Diethyl Ether
Concen: 3.012 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	123.9	70.0	210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.685 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

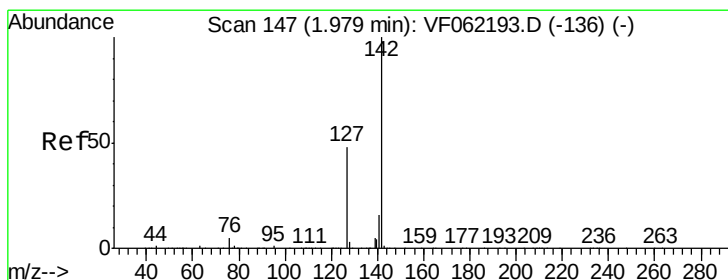
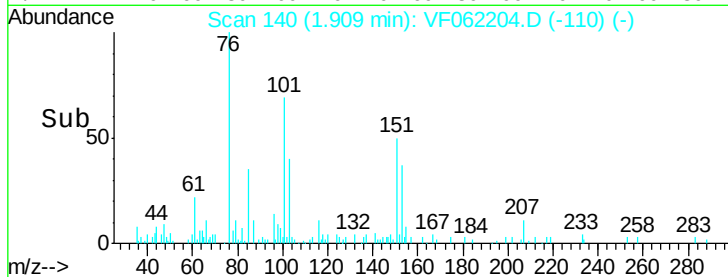
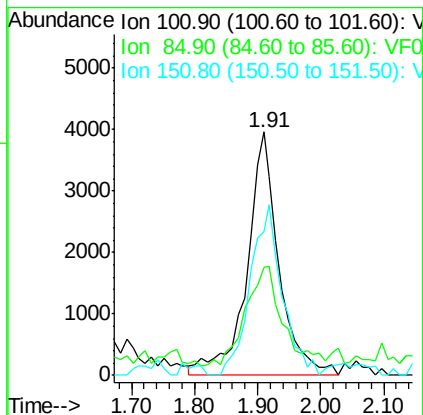
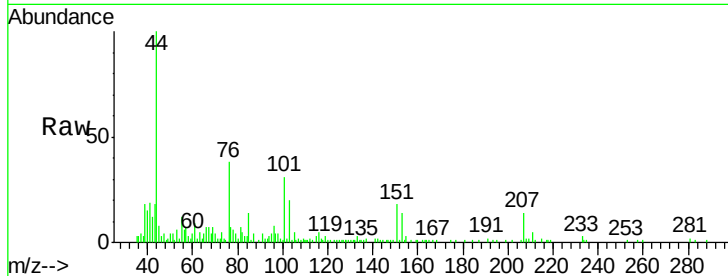
ClientSampleID :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	101	Resp:	13983
Ion Ratio	Lower	Upper	
101	100		
85	46.9	35.3	52.9
151	69.6	57.5	86.3

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:18 AM



#10

Methyl Iodide

Concen: 2.422 ug/l

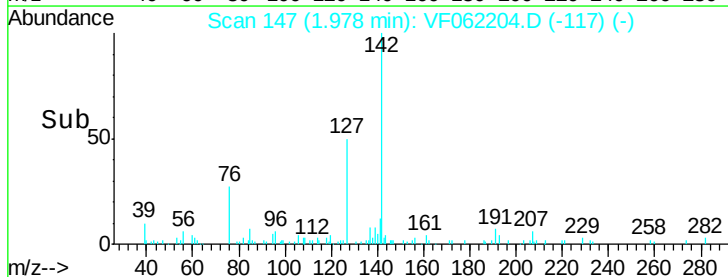
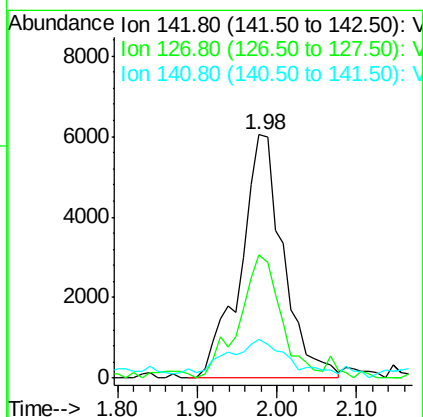
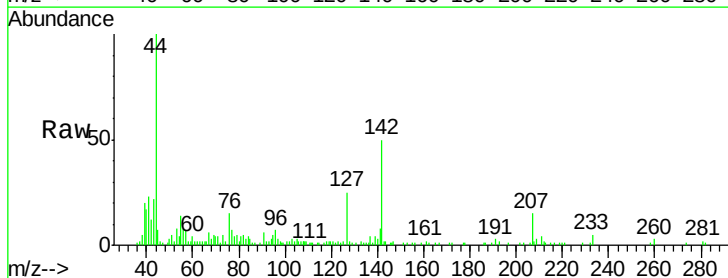
RT: 1.98 min Scan# 147

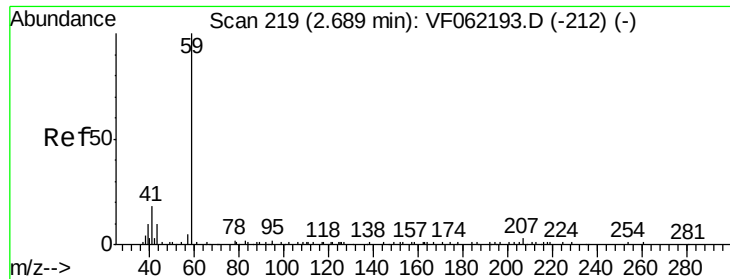
Delta R.T. -0.00 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	142	Resp:	22410
Ion Ratio	Lower	Upper	
142	100		
127	49.8	33.0	49.4#
141	24.7	12.7	19.1#





#11

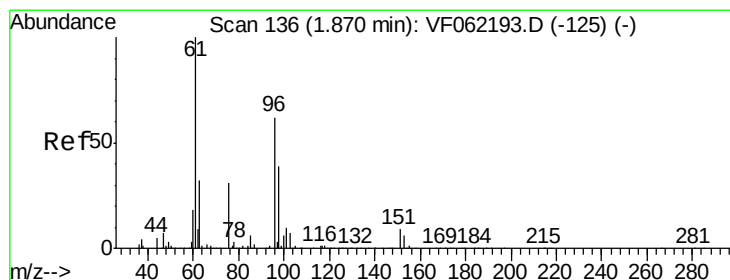
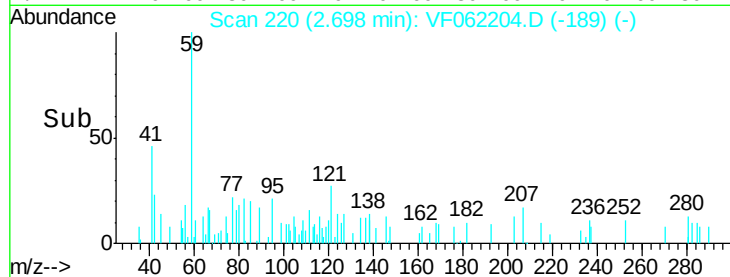
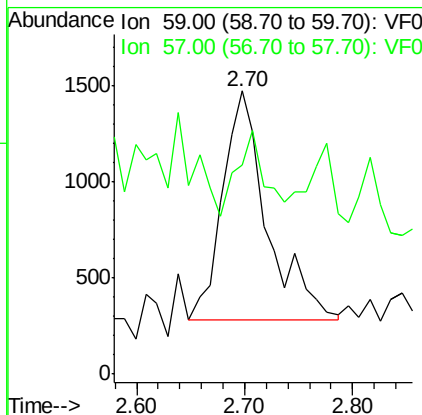
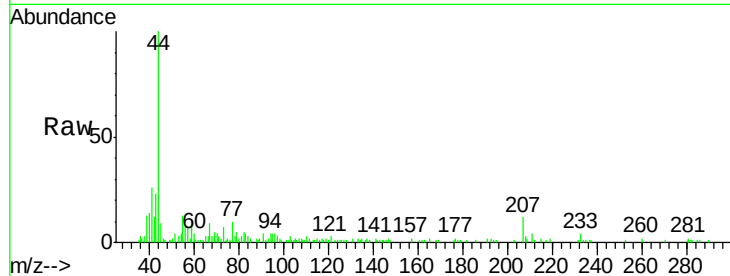
Tert butyl alcohol
Concen: 11.884 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	25.2	9.3	13.9#

Manual Integrations
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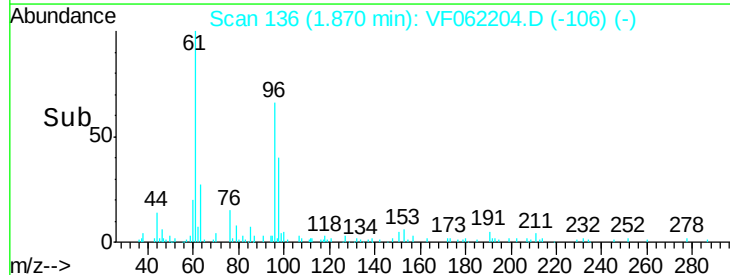
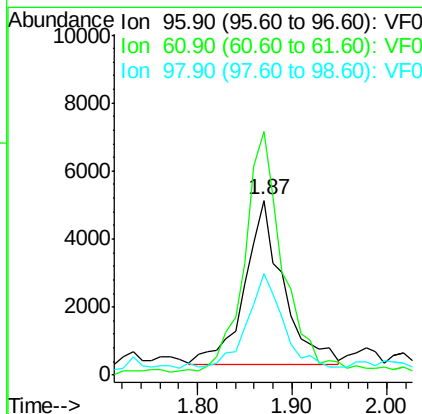
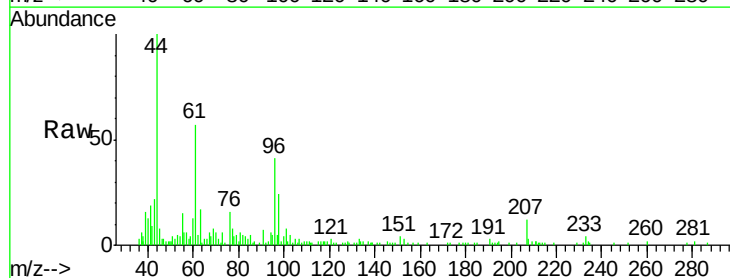
MMDadoda
4/19/2019 10:52:18 AM

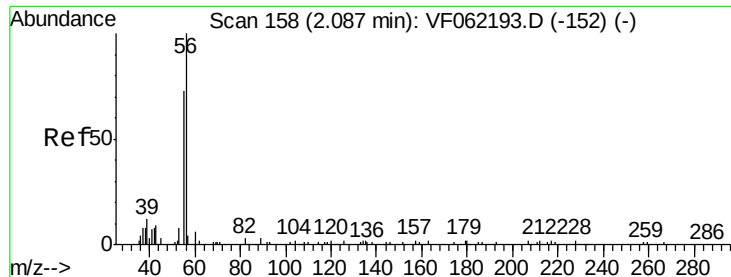


#12

1,1-Dichloroethene
Concen: 2.749 ug/l
RT: 1.87 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.6	129.1	193.7
98	57.7	50.0	75.0





#13

Acrolein

Concen: 16.241 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 56 Resp: 2789

Ion Ratio Lower Upper

56 100

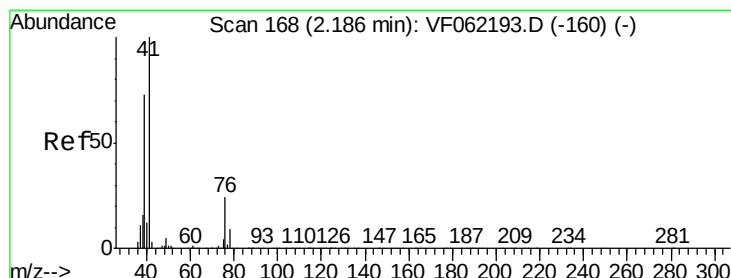
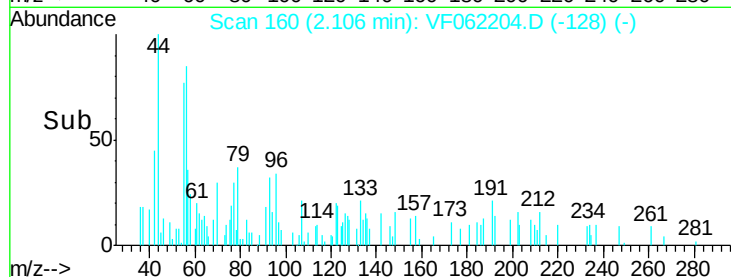
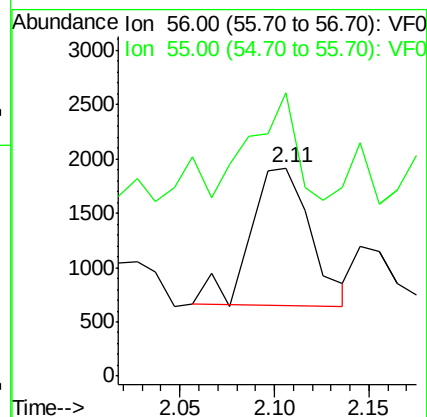
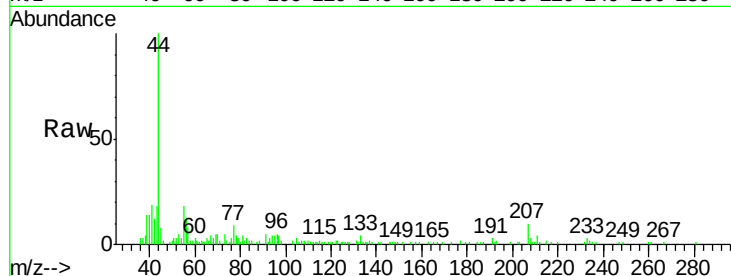
55 71.1 57.4 86.0

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:18 AM



#14

Allyl chloride

Concen: 2.451 ug/l

RT: 2.19 min Scan# 169

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

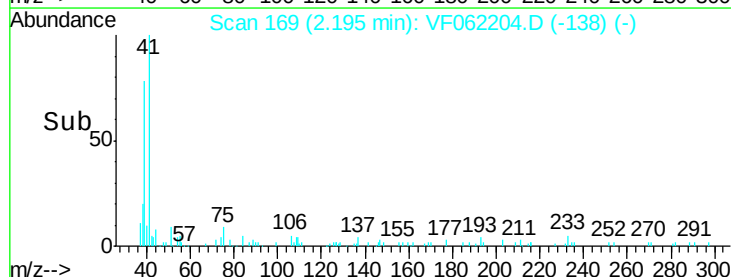
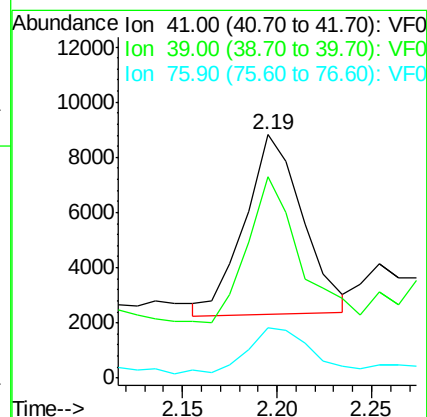
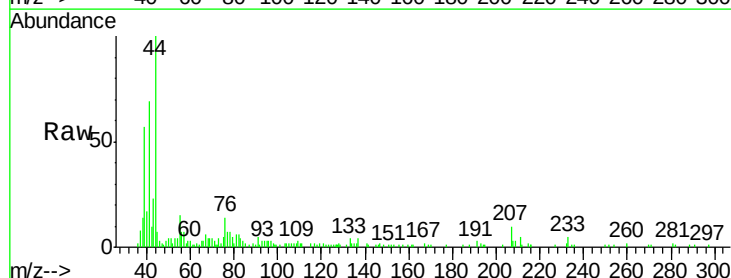
Tgt Ion: 41 Resp: 13930

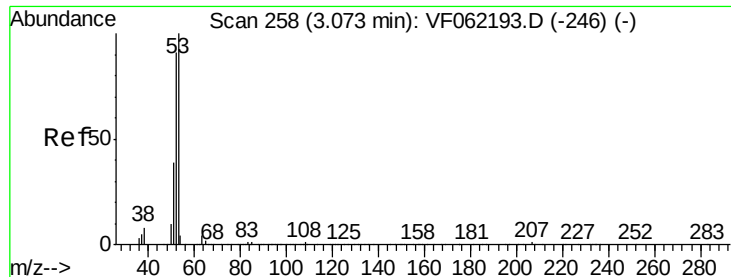
Ion Ratio Lower Upper

41 100

39 71.9 60.0 90.0

76 26.0 20.6 30.8





#15

Acrylonitrile

Concen: 13.057 ug/l

RT: 3.08 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

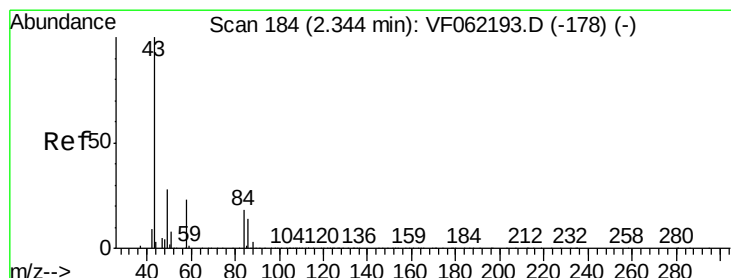
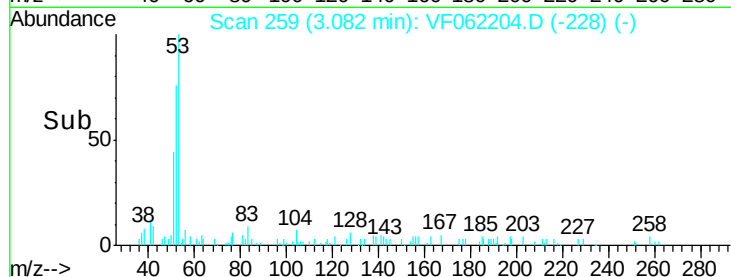
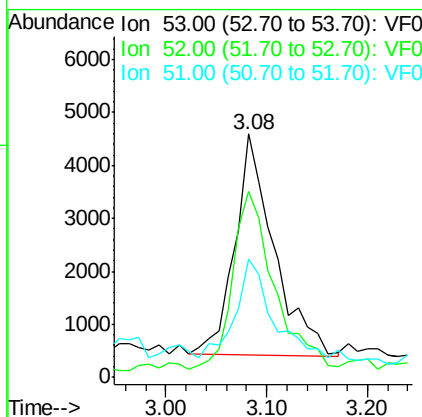
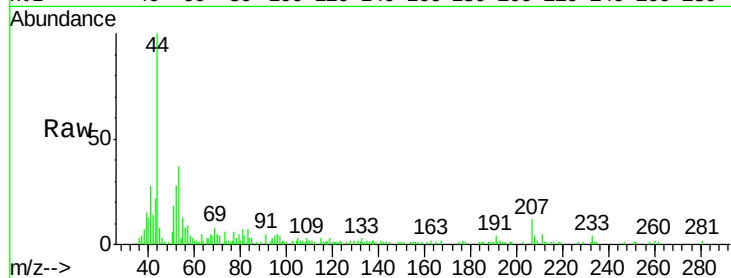
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	53	Resp:	11271
Ion Ratio	Lower	Upper	
53	100		
52	84.5	69.5	104.3
51	52.2	31.8	47.8#

Manual Integrations
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#16

Acetone

Concen: 16.031 ug/l

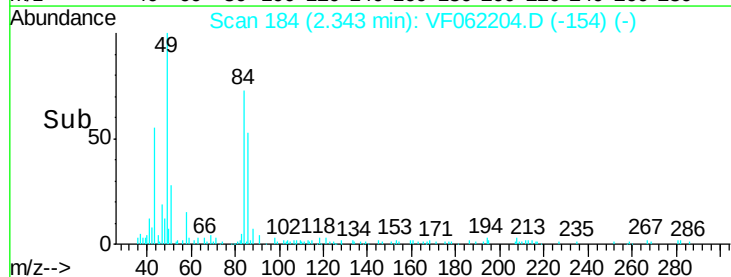
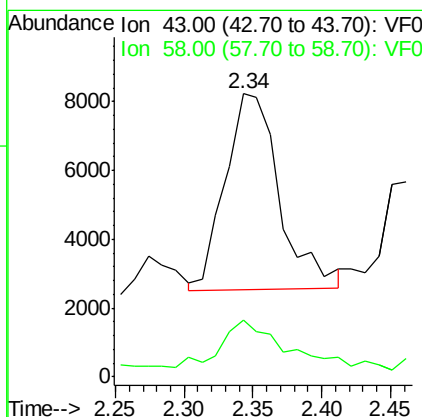
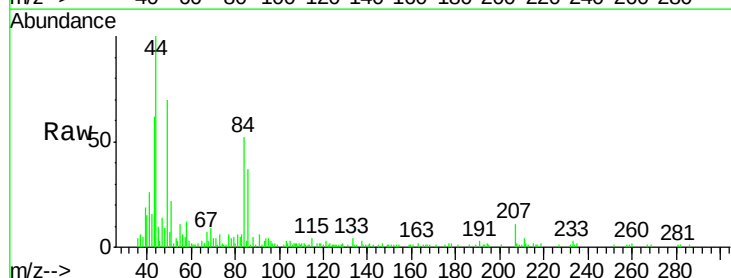
RT: 2.34 min Scan# 184

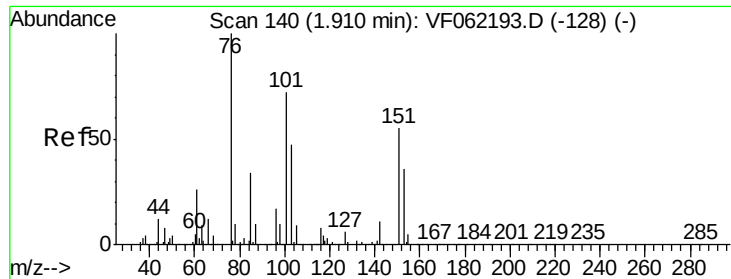
Delta R.T. -0.00 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	43	Resp:	15623
Ion Ratio	Lower	Upper	
43	100		
58	19.5	18.8	28.2





#17

Carbon Disulfide

Concen: 2.251 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 76 Resp: 30979

Ion Ratio Lower Upper

76 100

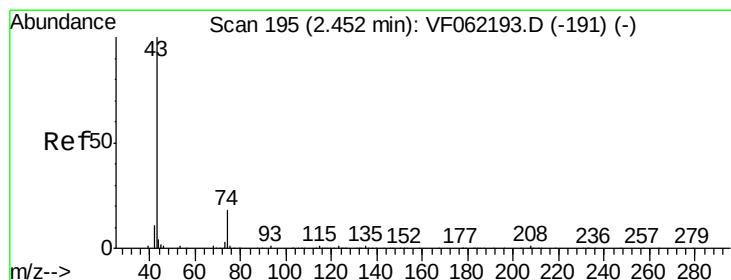
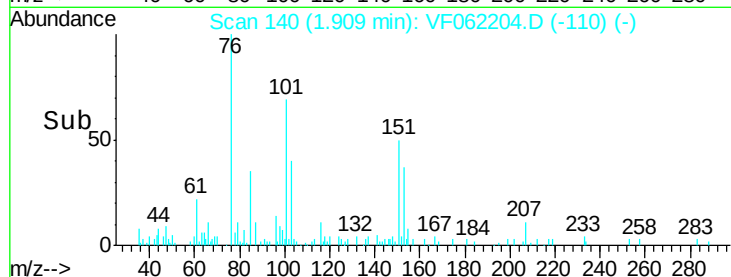
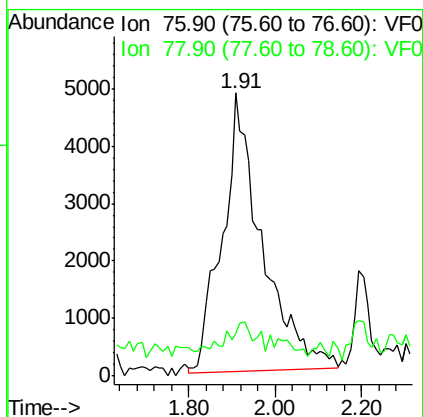
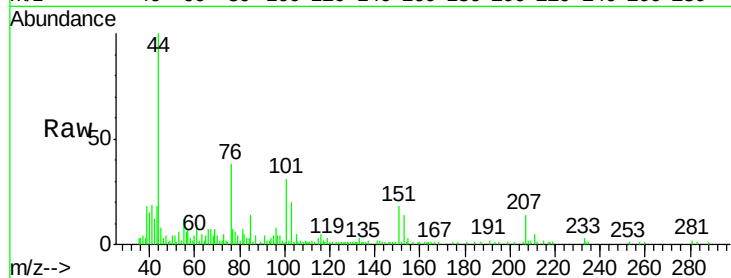
78 5.9 8.7 13.1#

Manual Integrations

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4/19/2019 10:52:18 AM



#18

Methyl Acetate

Concen: 2.407 ug/l m

RT: 2.46 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF062204.D

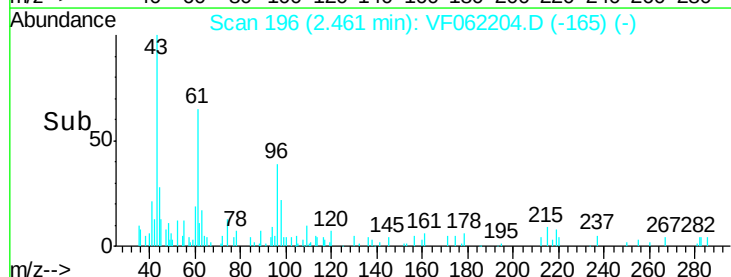
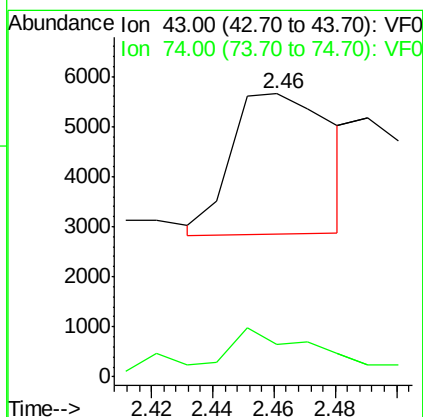
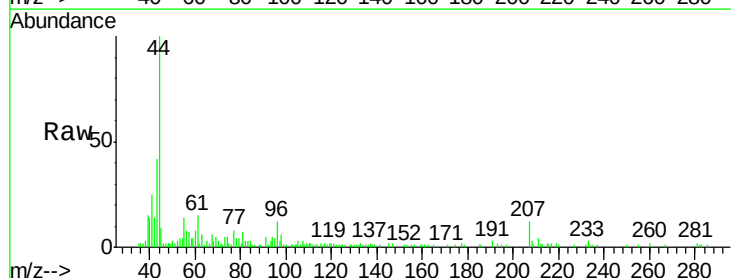
Acq: 18 Apr 2019 14:47

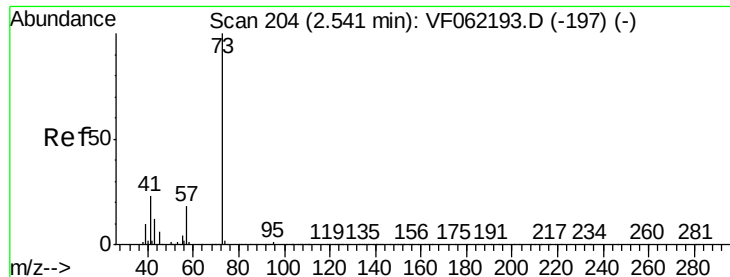
Tgt Ion: 43 Resp: 6456

Ion Ratio Lower Upper

43 100

74 30.8 14.5 21.7#





#19

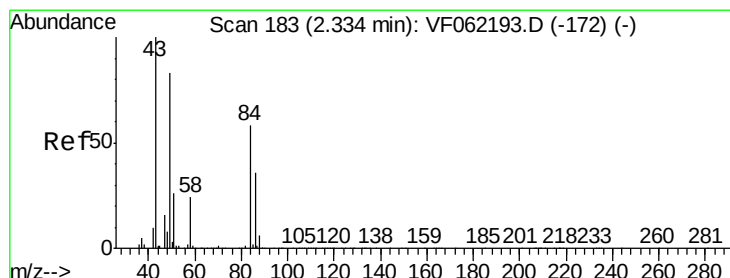
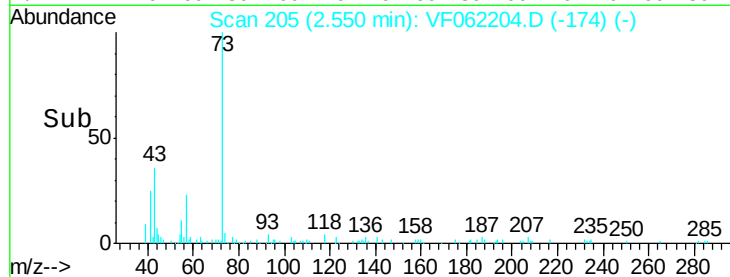
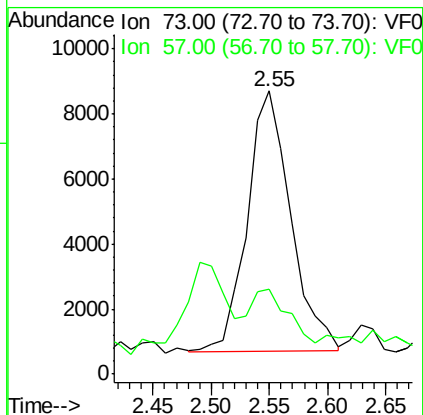
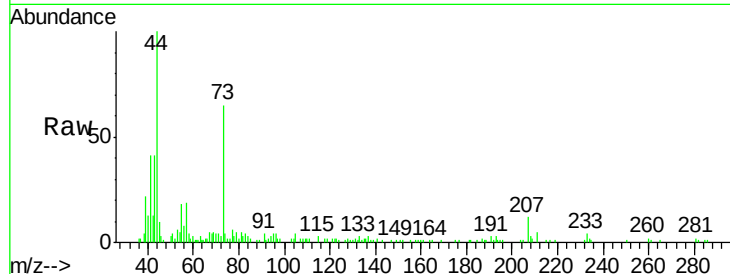
Methyl tert-butyl Ether
Concen: 2.369 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.7	15.1	22.7

Manual Integrations
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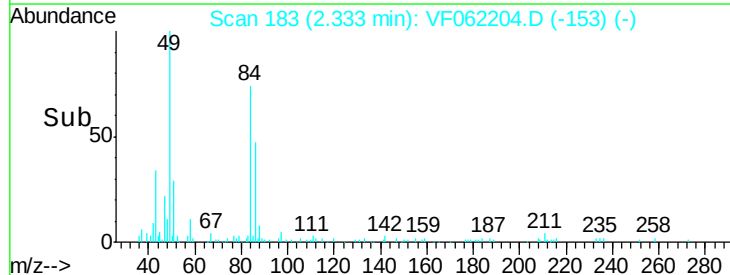
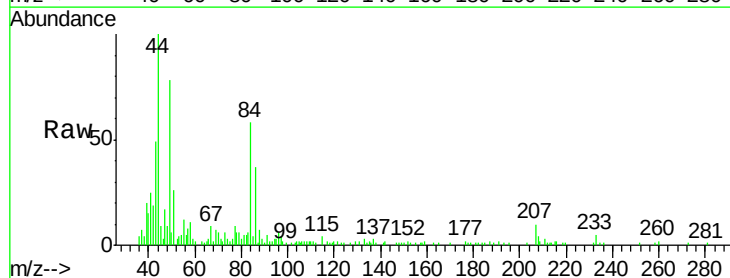
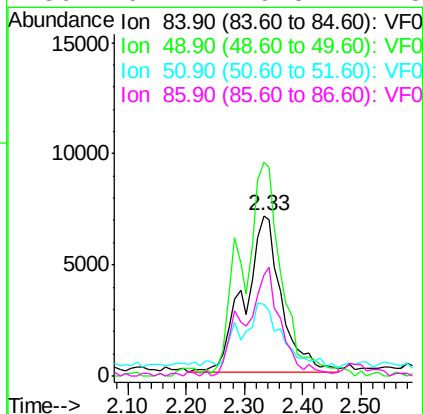
MMDadoda
4/19/2019 10:52:18 AM

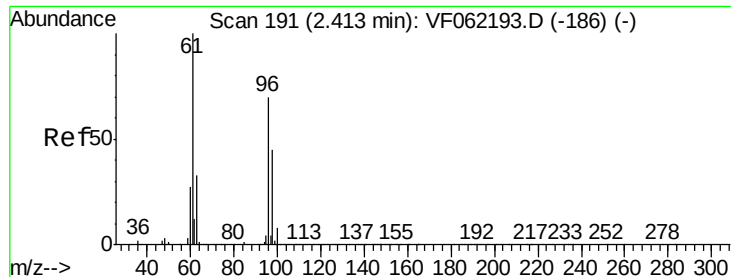


#20

Methylene Chloride
Concen: 5.092 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
84	100		
49	131.4	114.0	171.0
51	41.0	37.0	55.4
86	62.2	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 2.579 ug/l

RT: 2.42 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

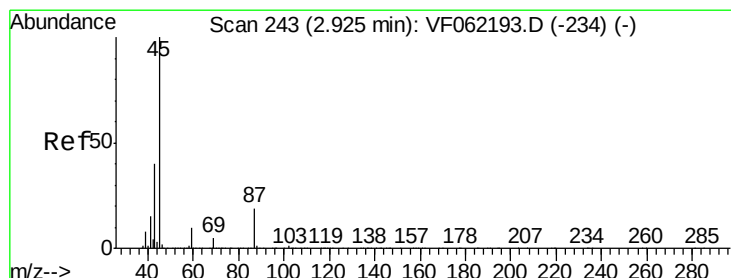
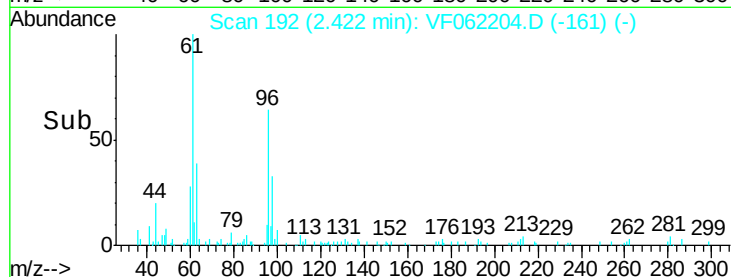
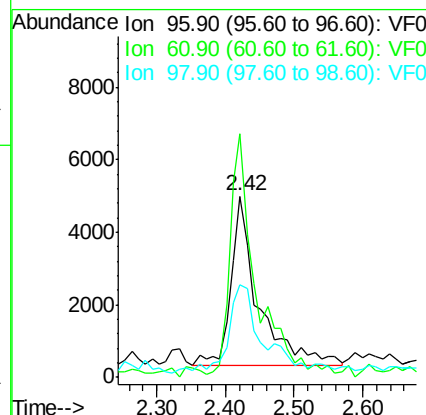
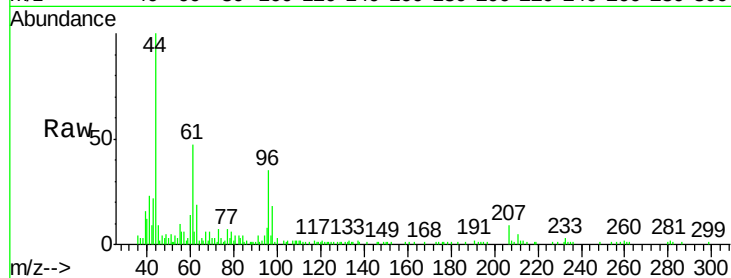
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	96	Resp:	12633
Ion	Ratio	Lower	Upper
96	100		
61	141.6	114.6	172.0
98	50.7	51.2	76.8#

Manual Integrations
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#22

Diisopropyl ether

Concen: 2.370 ug/l

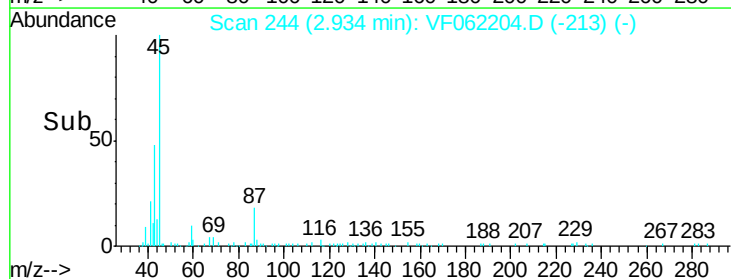
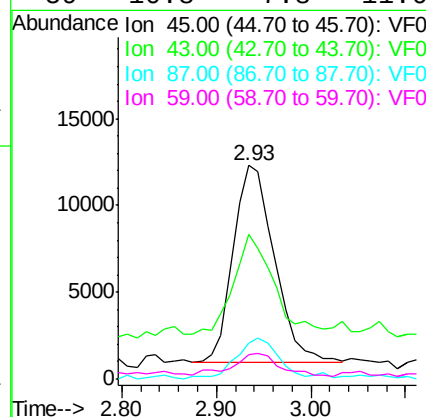
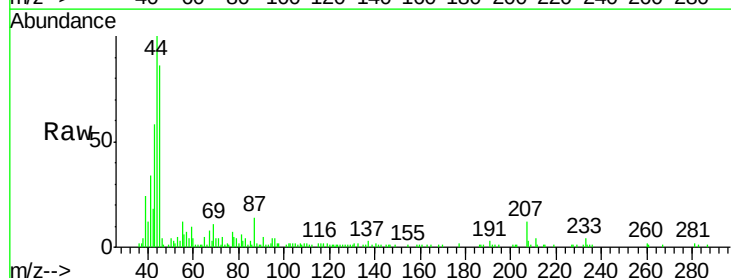
RT: 2.93 min Scan# 244

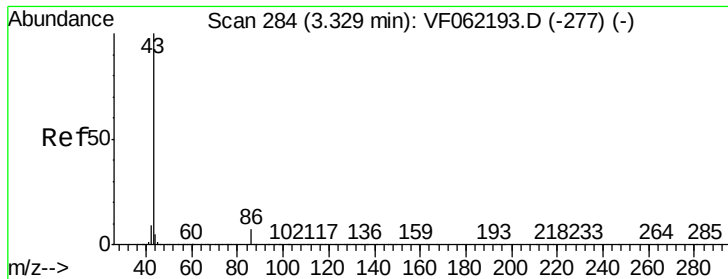
Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	45	Resp:	34457
Ion	Ratio	Lower	Upper
45	100		
43	50.9	32.8	49.2#
87	17.1	15.2	22.8
59	10.8	7.8	11.6





#23

Vinyl Acetate

Concen: 11.809 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

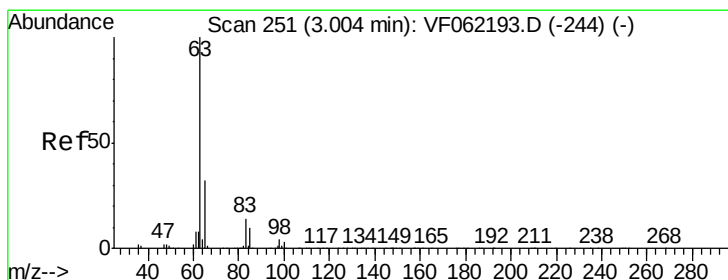
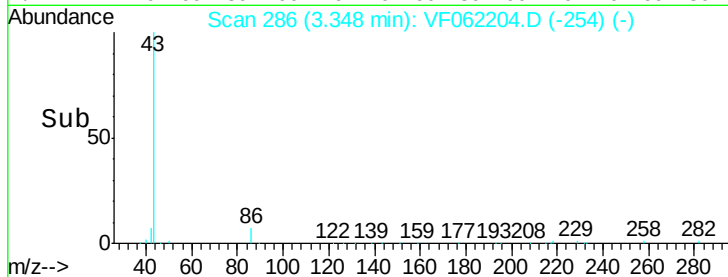
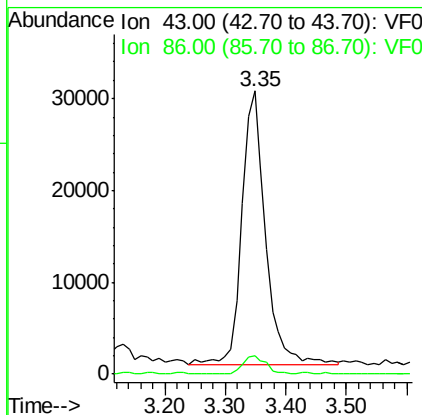
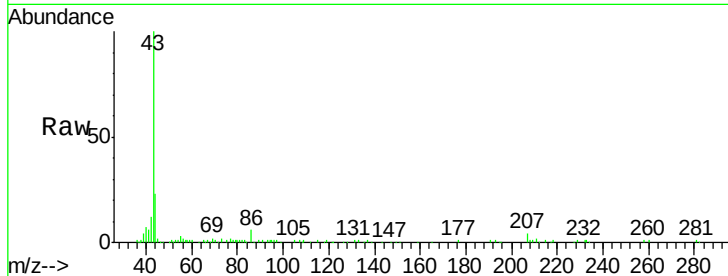
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	43	Resp:	81814
Ion Ratio	Lower	Upper	
43	100		
86	6.6	5.9	8.9

Manual Integrations
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4/19/2019 10:52:18 AM



#24

1,1-Dichloroethane

Concen: 2.445 ug/l

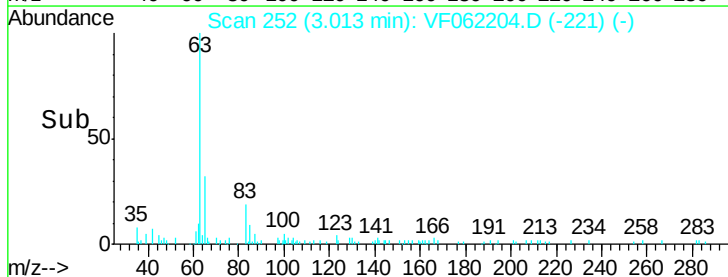
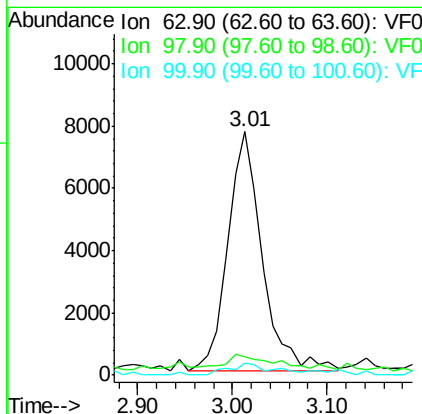
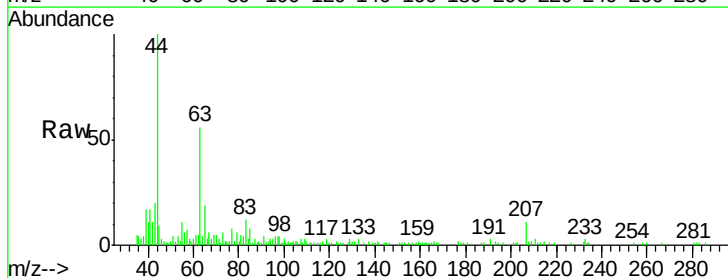
RT: 3.01 min Scan# 252

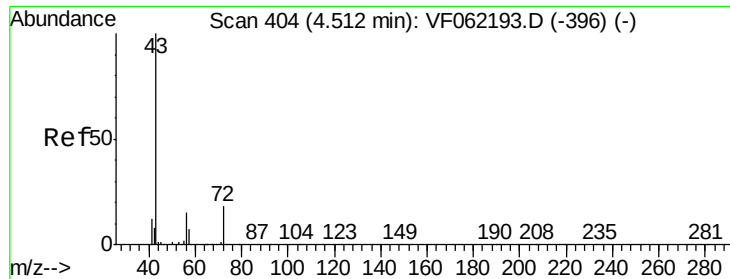
Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	63	Resp:	19446
Ion Ratio	Lower	Upper	
63	100		
98	5.1	2.3	6.8
100	5.1	1.7	5.0#





#25

2-Butanone

Concen: 13.538 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 26381

Ion Ratio Lower Upper

43 100

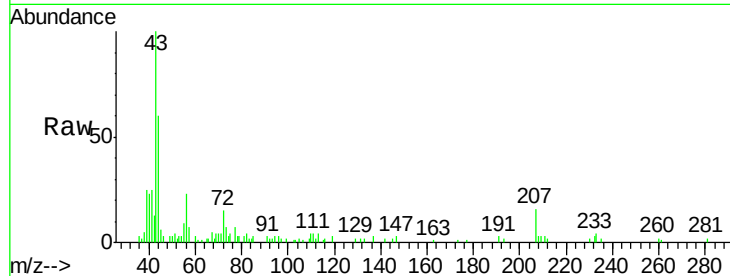
72 16.9 16.1 24.1

Manual Integrations

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MMDadoda

4/19/2019 10:52:18 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.53

8000

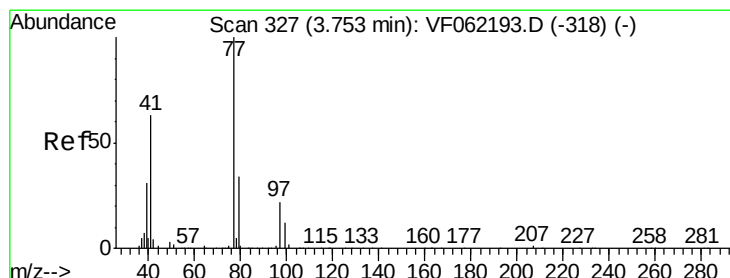
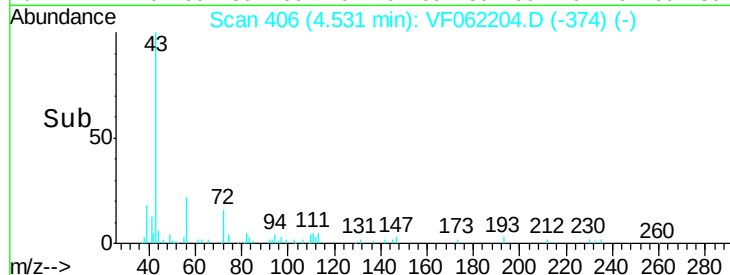
6000

4000

2000

0

Time-->



#26

2,2-Dichloropropane

Concen: 2.275 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.03 min

Lab File: VF062204.D

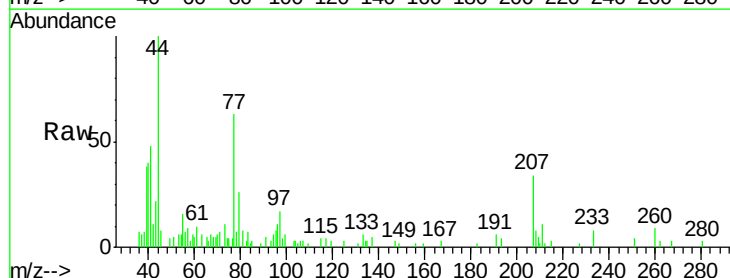
Acq: 18 Apr 2019 14:47

Tgt Ion: 77 Resp: 9137

Ion Ratio Lower Upper

77 100

97 37.9 11.1 33.3#



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0

3.78

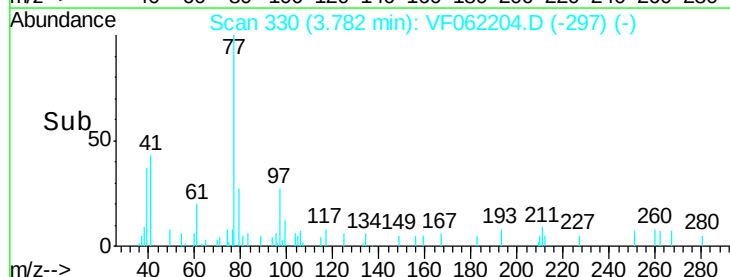
3000

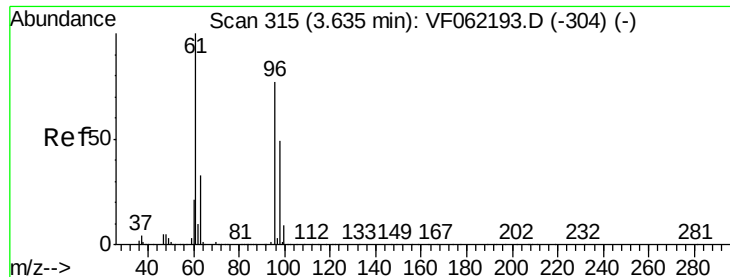
2000

1000

0

Time-->





#27

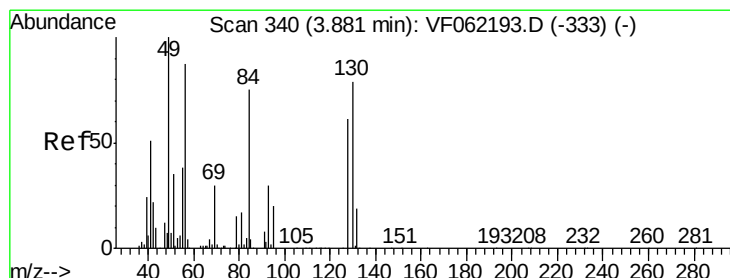
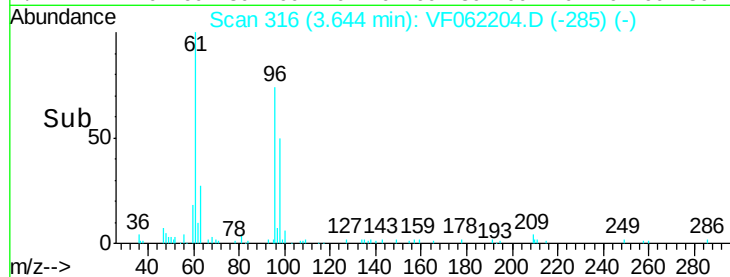
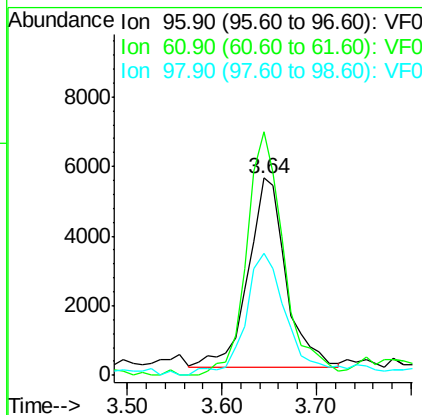
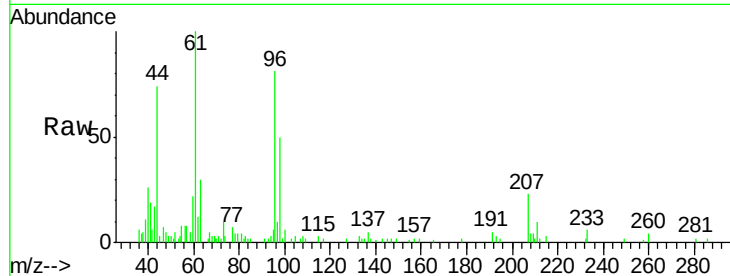
cis-1,2-Dichloroethene
Concen: 2.384 ug/l
RT: 3.64 min Scan# 316
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
96	100	15121		
61	125.6	0.0	253.6	
98	70.7	0.0	124.8	

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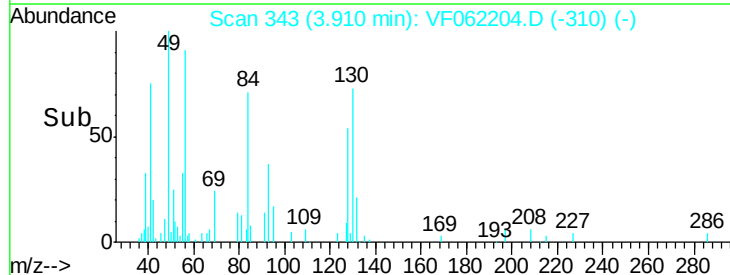
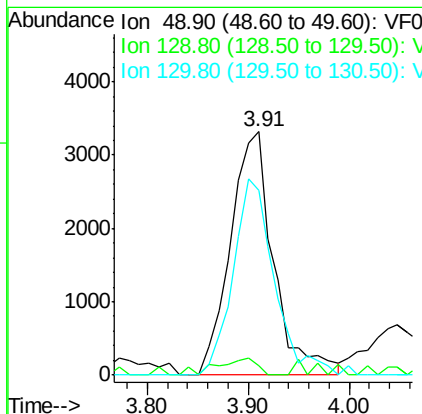
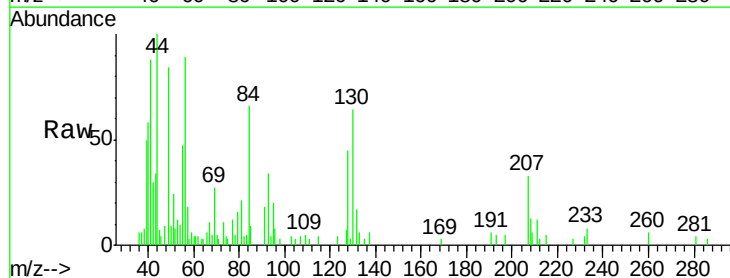
MMDadoda
4/19/2019 10:52:18 AM

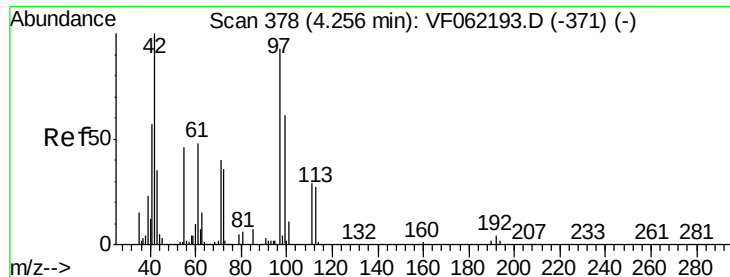


#28

Bromochloromethane
Concen: 2.602 ug/l
RT: 3.91 min Scan# 343
Delta R.T. 0.03 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	9914		
129	6.3	0.0	0.0#	
130	77.2	66.6	100.0	





#29

Tetrahydrofuran

Concen: 14.598 ug/l

RT: 4.27 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

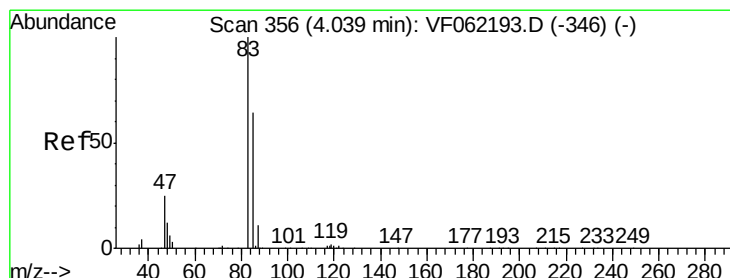
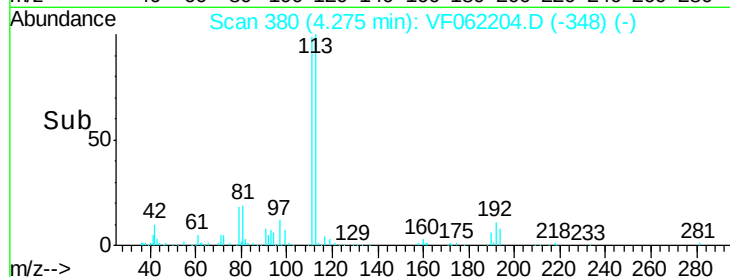
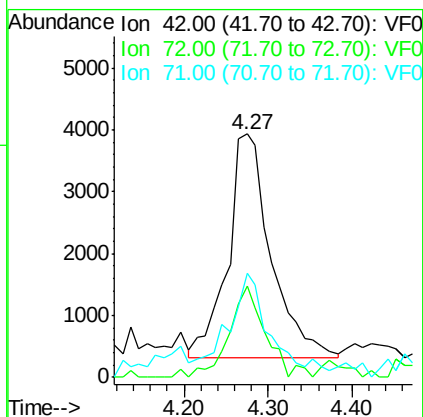
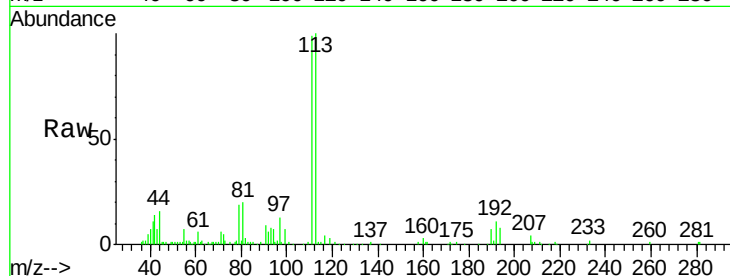
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	42	Resp:	12876
Ion Ratio		Lower	Upper
42	100		
72	35.0	28.6	43.0
71	33.6	29.2	43.8

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4/19/2019 10:52:18 AM



#30

Chloroform

Concen: 2.370 ug/l

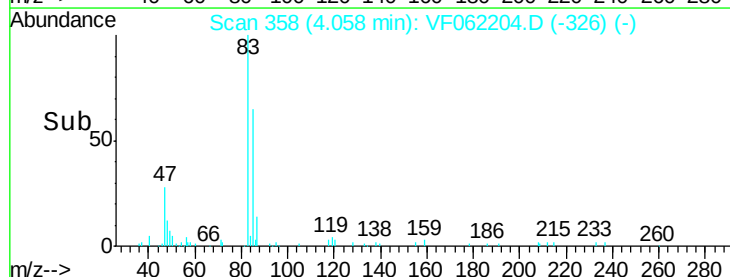
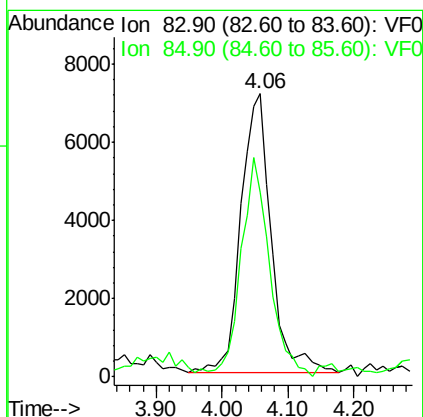
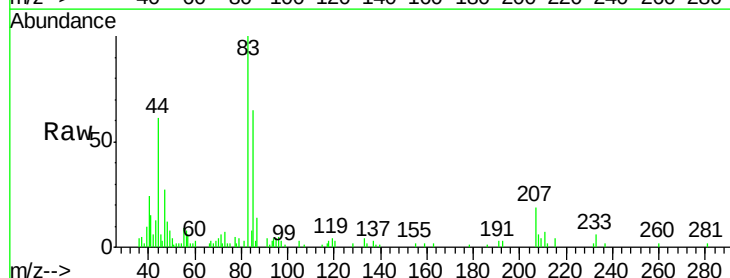
RT: 4.06 min Scan# 358

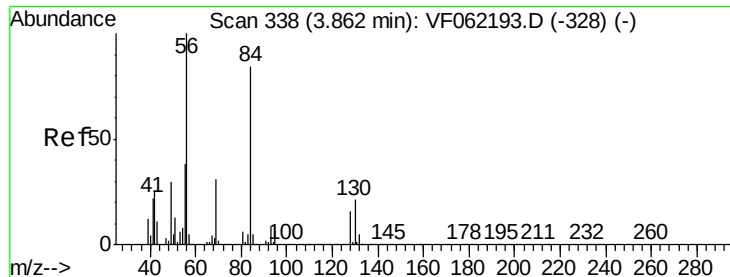
Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	83	Resp:	23167
Ion Ratio		Lower	Upper
83	100		
85	64.2	51.8	77.8





#31

Cyclohexane

Concen: 2.205 ug/l

RT: 3.87 min Scan# 339

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

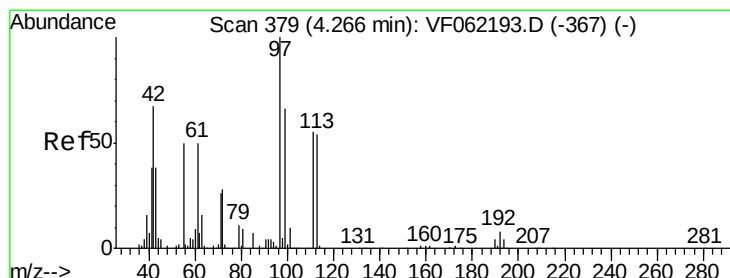
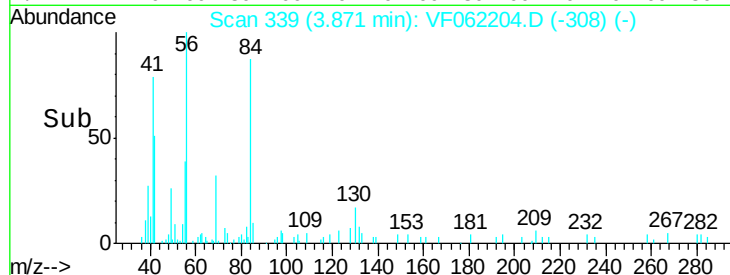
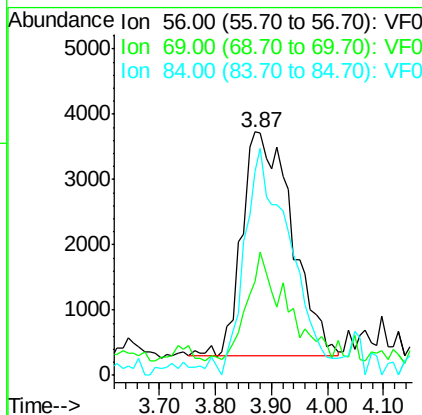
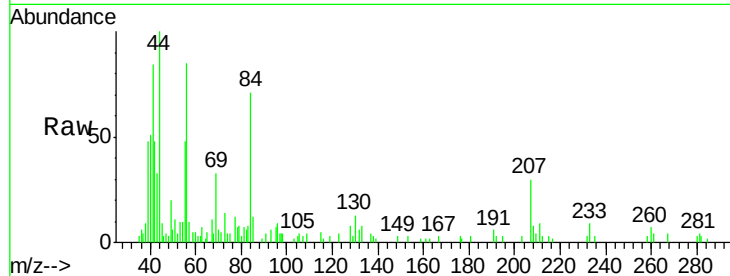
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	56	Resp:	21023
Ion	Ratio	Lower	Upper
56	100		
69	28.7	25.1	37.7
84	87.3	67.8	101.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 1.894 ug/l

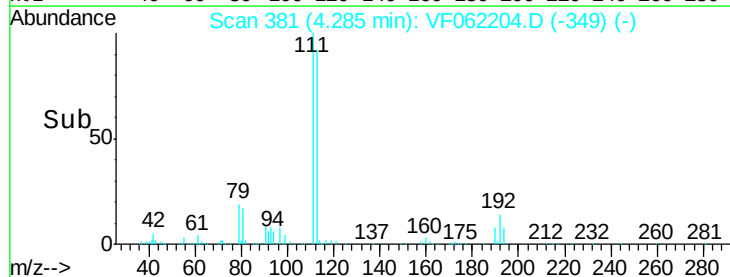
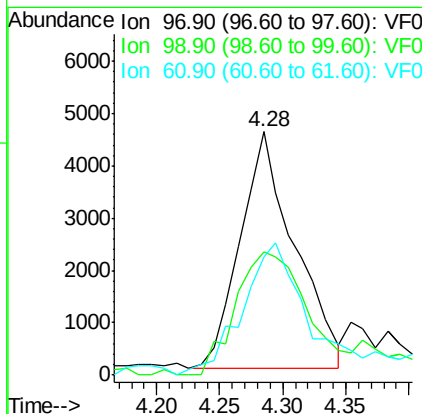
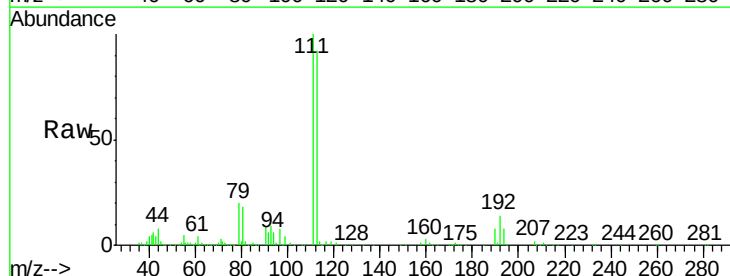
RT: 4.28 min Scan# 381

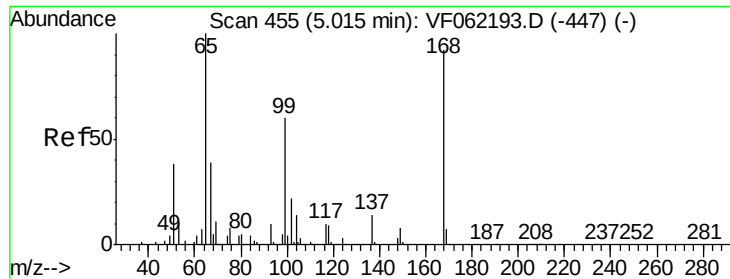
Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	97	Resp:	13549
Ion	Ratio	Lower	Upper
97	100		
99	68.6	52.7	79.1
61	70.8	53.0	79.4





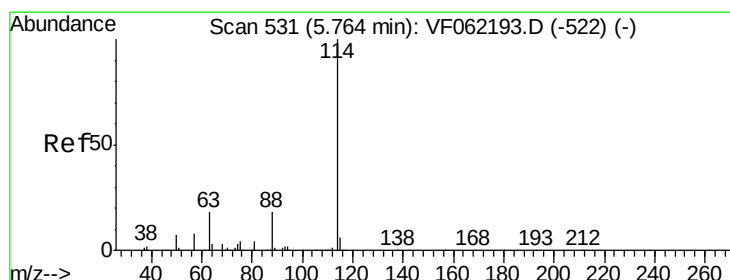
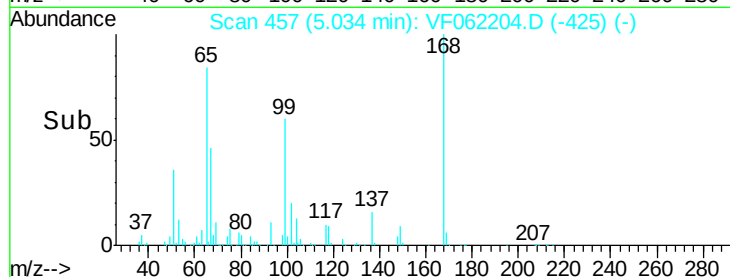
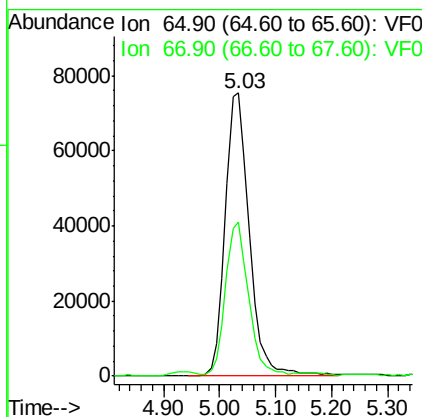
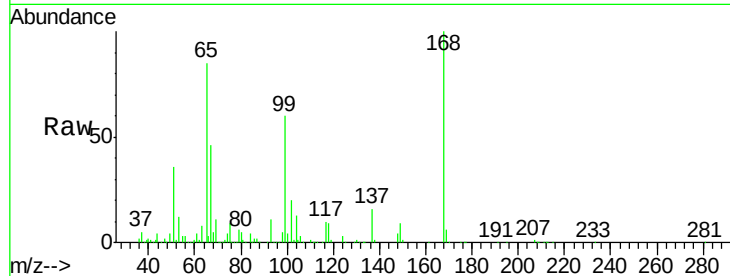
#33
 1,2-Dichloroethane-d4
 Concen: 55.618 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.02 min
 Lab File: VF062204.D
 Acq: 18 Apr 2019 14:47

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	226761		
67	50.5	0.0	109.4	

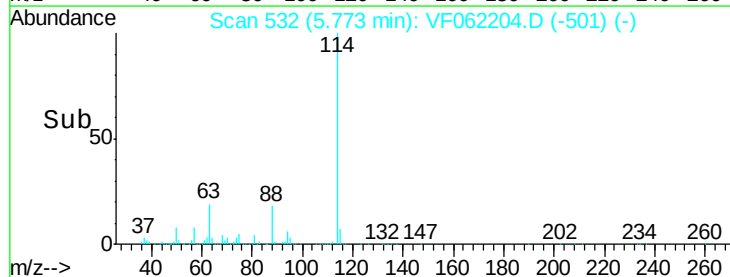
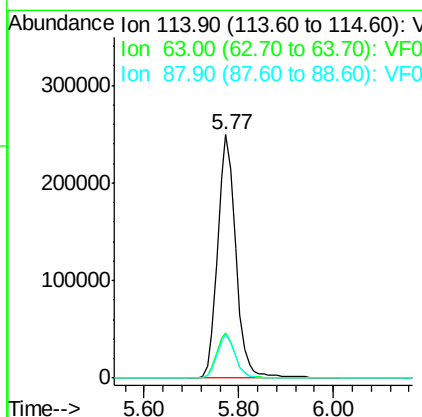
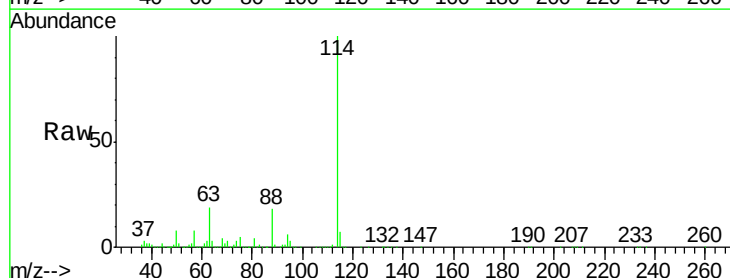
Manual Integrations
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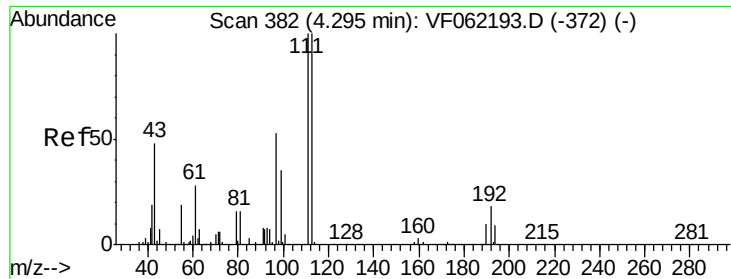
MMDadoda
 4/19/2019 10:52:18 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062204.D
 Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	663311		
63	18.7	0.0	36.6	
88	18.0	0.0	35.8	





#35

Dibromofluoromethane

Concen: 52.772 ug/l

RT: 4.30 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

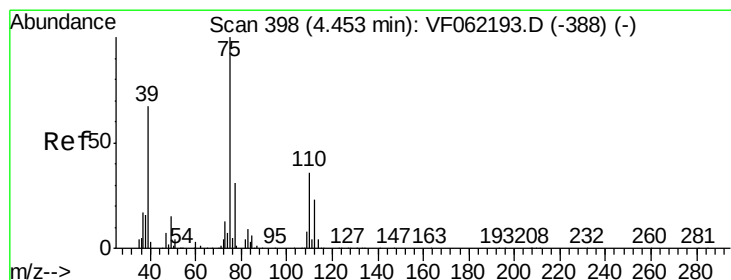
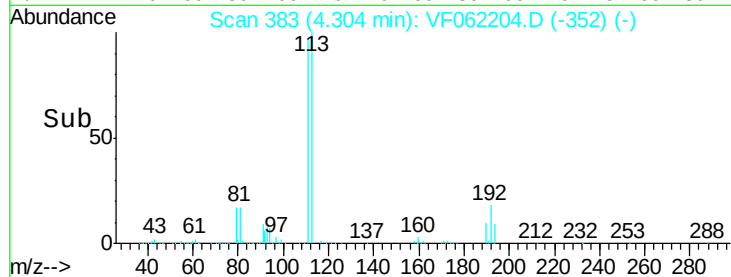
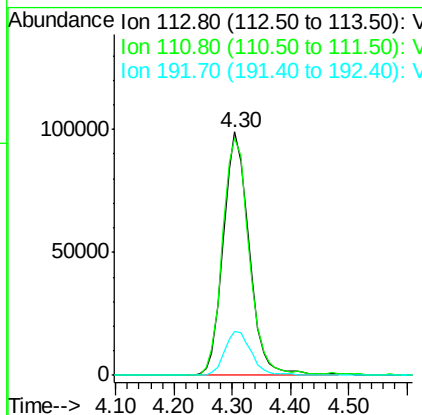
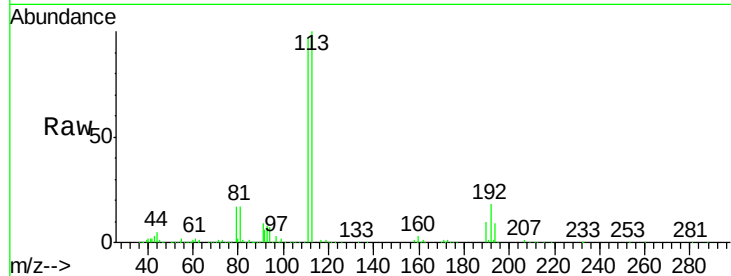
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	113	Resp:	306196
Ion Ratio	Lower	Upper	
113	100		
111	100.7	81.1	121.7
192	18.7	14.7	22.1

Manual Integrations
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MMDadoda
4/19/2019 10:52:18 AM



#36

1,1-Dichloropropene

Concen: 2.285 ug/l

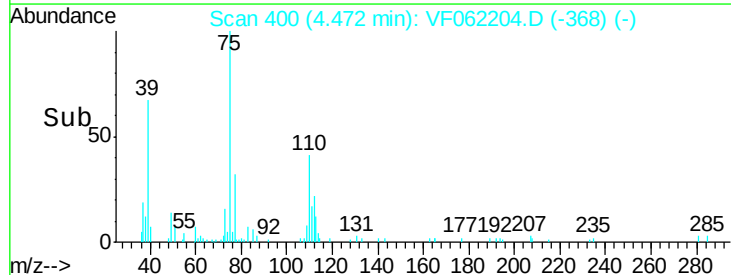
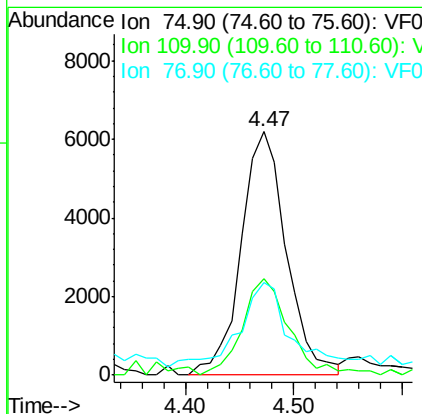
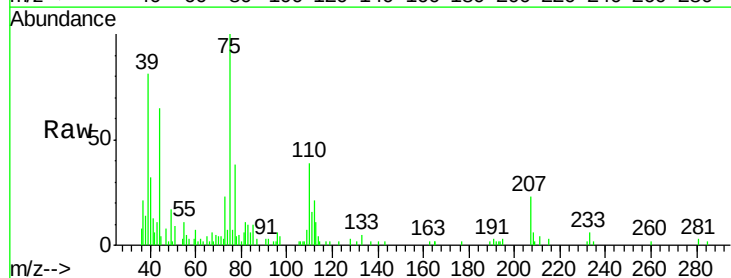
RT: 4.47 min Scan# 400

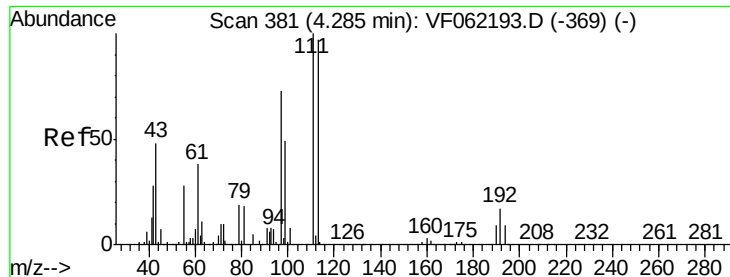
Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	75	Resp:	18169
Ion Ratio	Lower	Upper	
75	100		
110	41.1	18.4	55.2
77	40.3	25.4	38.2#





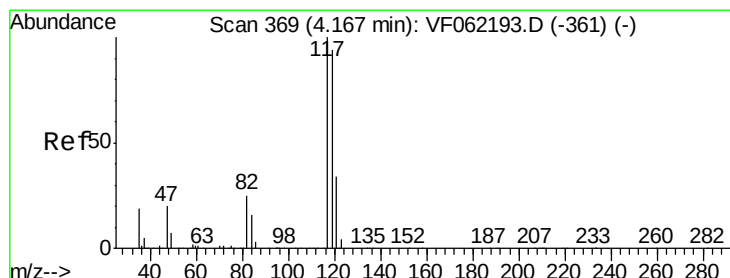
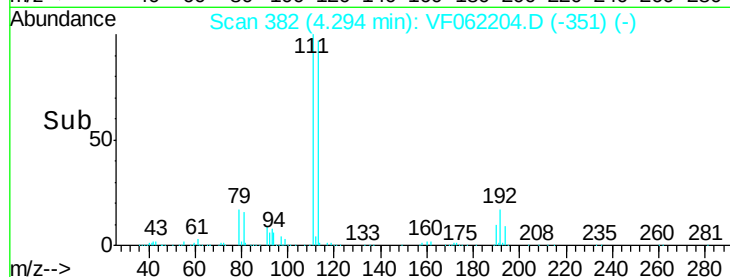
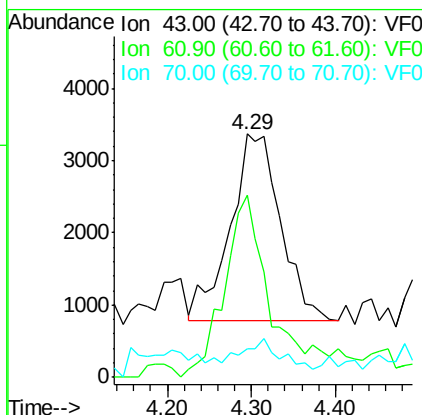
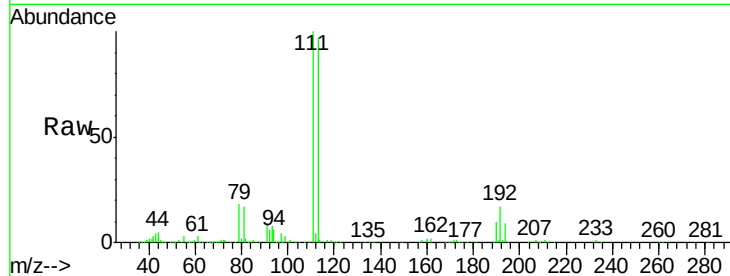
#37
Ethyl Acetate
Concen: 2.886 ug/l
RT: 4.29 min Scan# 382
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	43	61	70	Ratio	100	88.6	11.4	Resp:	10831	Lower	Upper
43	100										
61		88.6				0.0				0.0	
70			11.4			7.8				11.6	

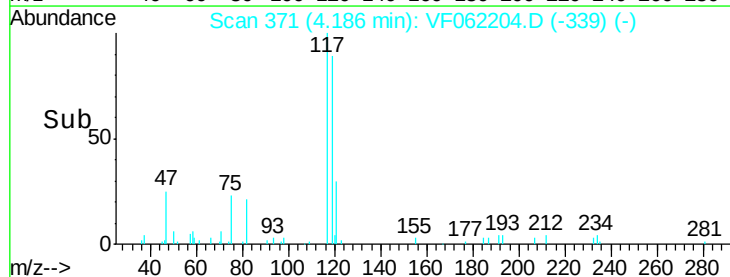
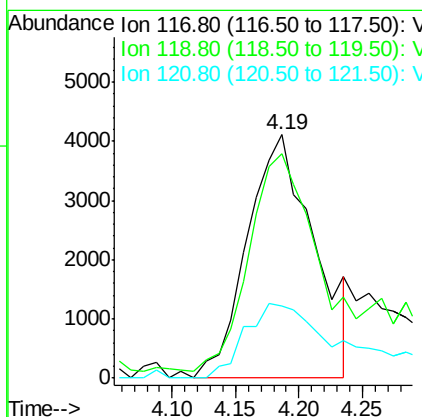
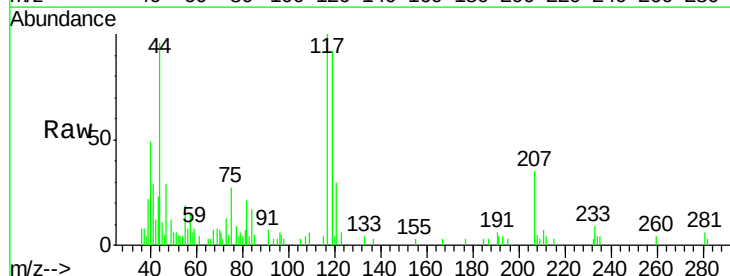
Manual Integrations
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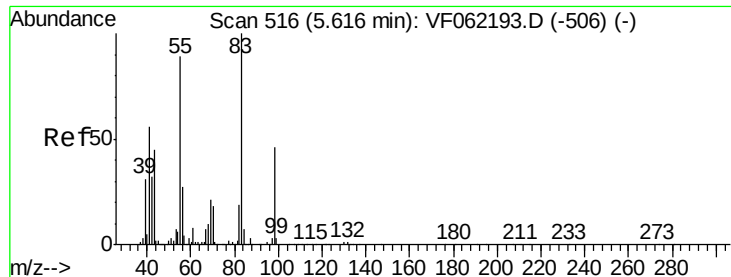
MMDadoda
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#38
Carbon Tetrachloride
Concen: 2.158 ug/l m
RT: 4.19 min Scan# 371
Delta R.T. 0.02 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	117	119	121	Ratio	100	92.2	29.6	Resp:	15188	Lower	Upper
117	100										
119		92.2				75.0				112.4	
121			29.6			26.9				40.3	





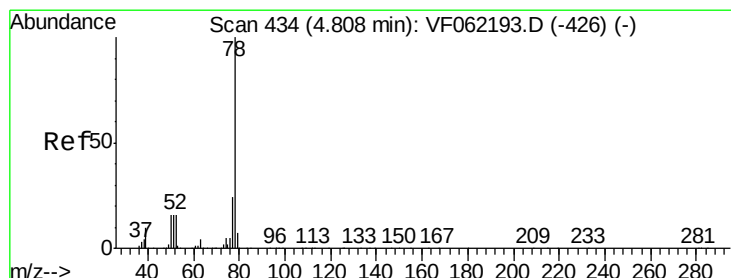
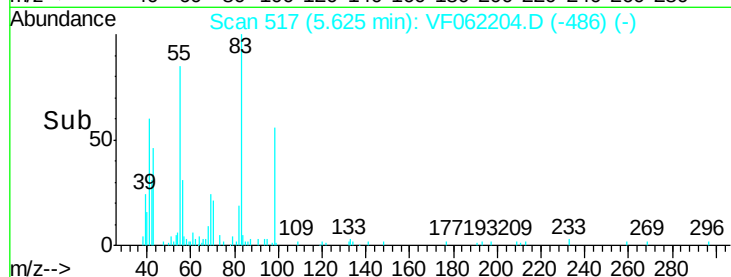
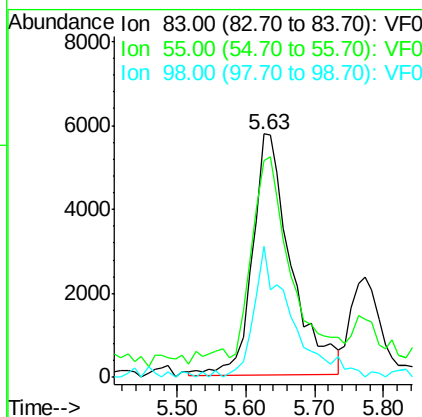
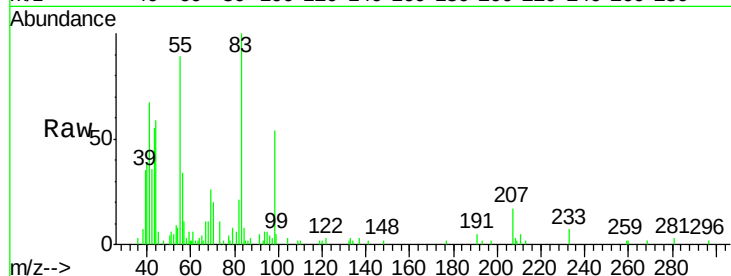
#39
Methylvlcyclohexane
Concen: 2.357 ug/l
RT: 5.63 min Scan# 517
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.2	71.0	106.6
98	53.4	36.7	55.1

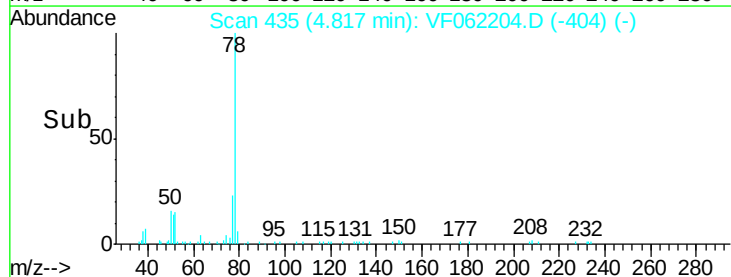
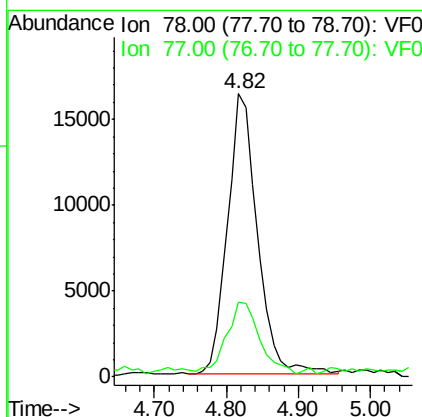
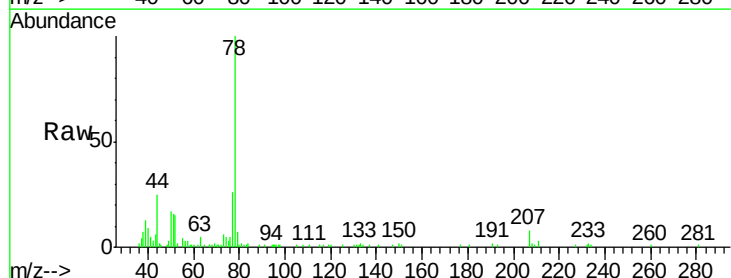
Manual Integrations
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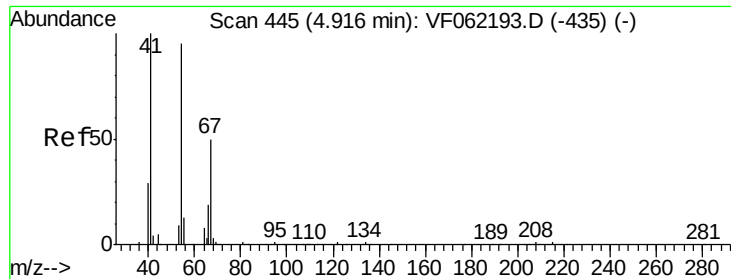
MMDadoda
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#40
Benzene
Concen: 2.263 ug/l
RT: 4.82 min Scan# 435
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.9	28.3





#41

Methacrylonitrile

Concen: 3.261 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

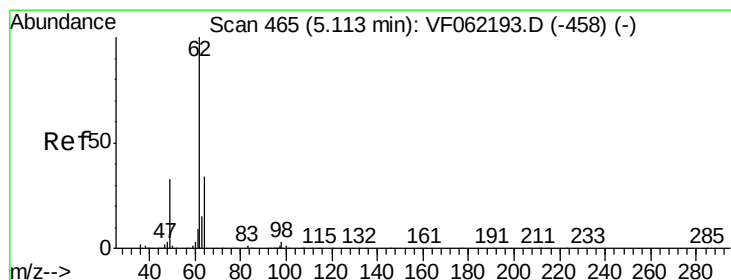
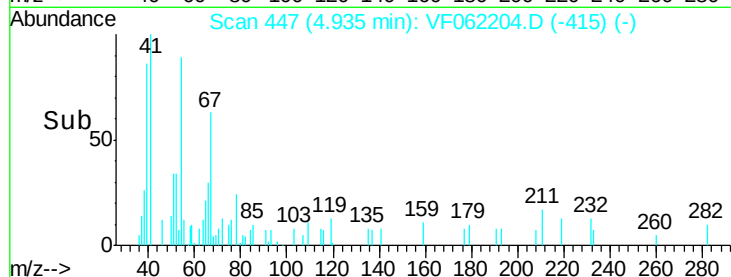
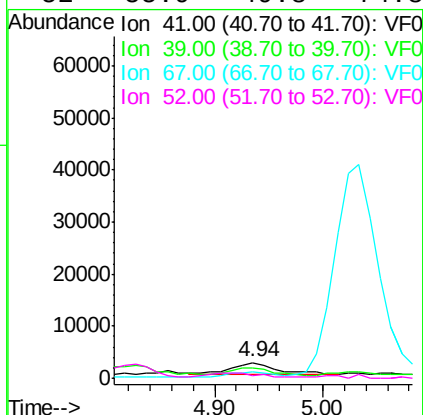
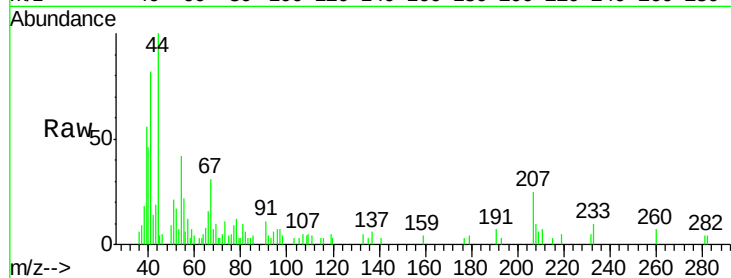
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.2	44.7	67.1	
67	0.0	39.1	58.7#	
52	55.9	49.8	74.8	

Manual Integrations
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MMDadoda
4/19/2019 10:52:18 AM



#42

1,2-Dichloroethane

Concen: 2.394 ug/l

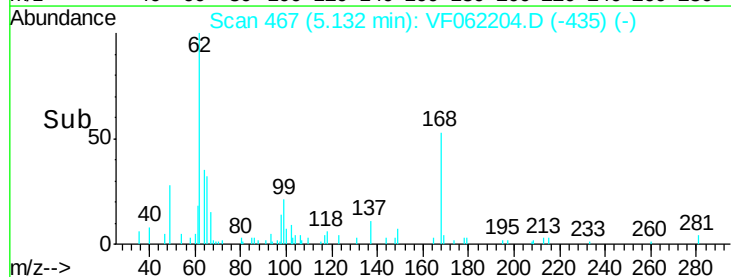
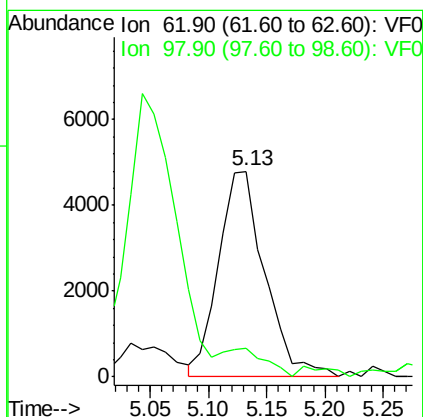
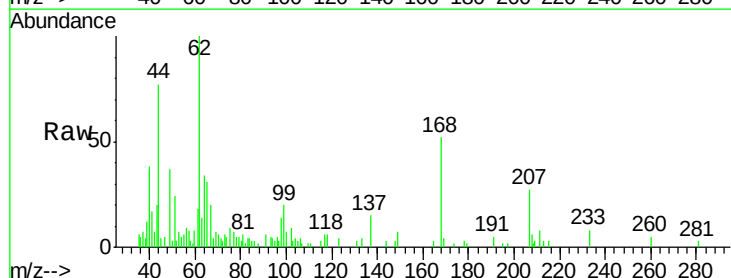
RT: 5.13 min Scan# 467

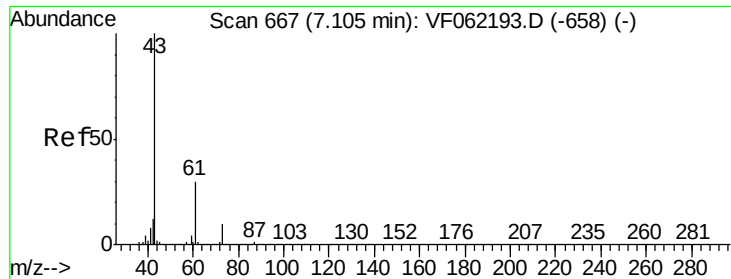
Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	0.0	0.0	19.0	





#43

Isopropyl Acetate

Concen: 4.185 ug/l

RT: 7.11 min Scan# 668

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

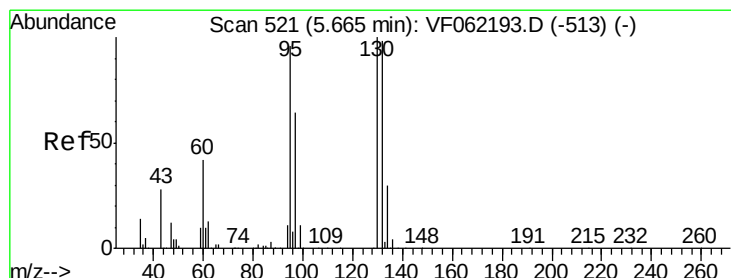
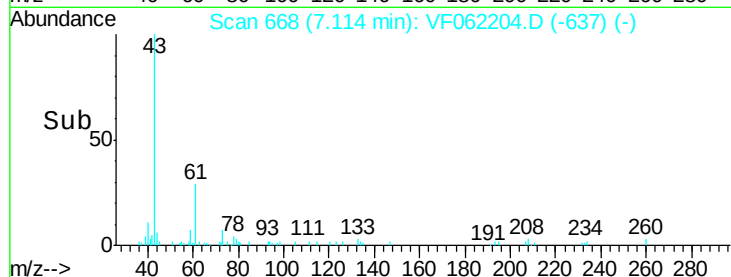
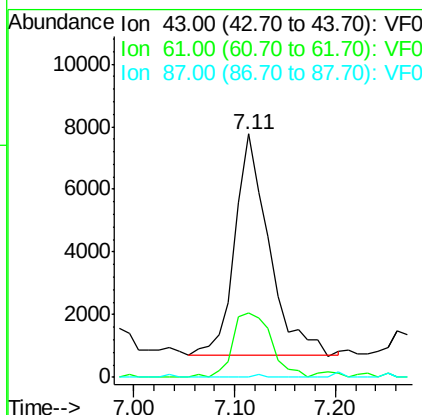
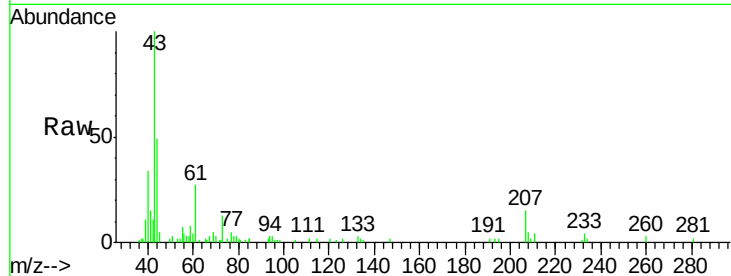
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	43	Resp:	16520
Ion Ratio	Lower	Upper	
43	100		
61	33.2	24.4	36.6
87	0.4	0.4	0.6#

Manual Integrations
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#44

Trichloroethene

Concen: 2.521 ug/l

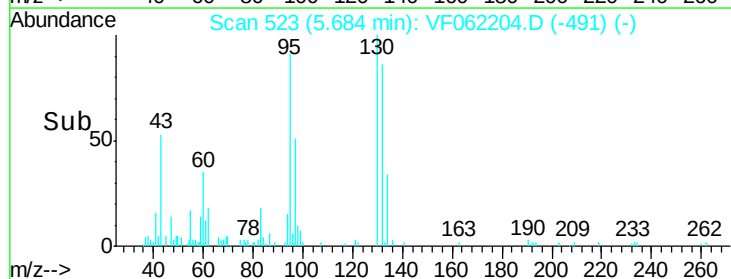
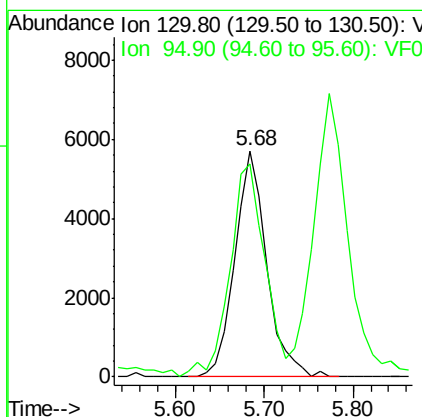
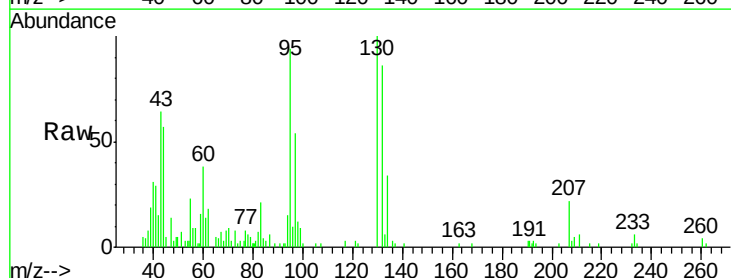
RT: 5.68 min Scan# 523

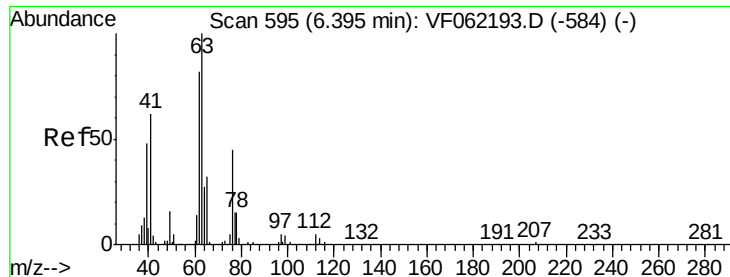
Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	130	Resp:	14211
Ion Ratio	Lower	Upper	
130	100		
95	91.8	0.0	191.4





#45

1,2-Dichloropropane

Concen: 2.506 ug/l

RT: 6.40 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 63 Resp: 11516

Ion Ratio Lower Upper

63 100

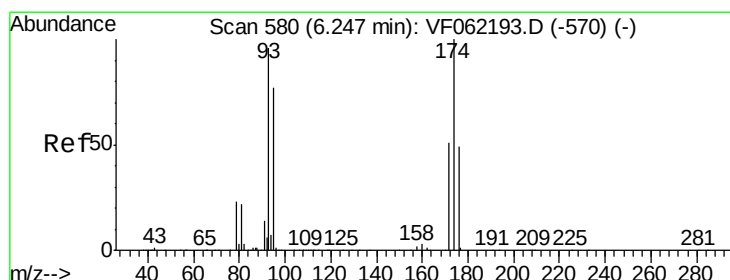
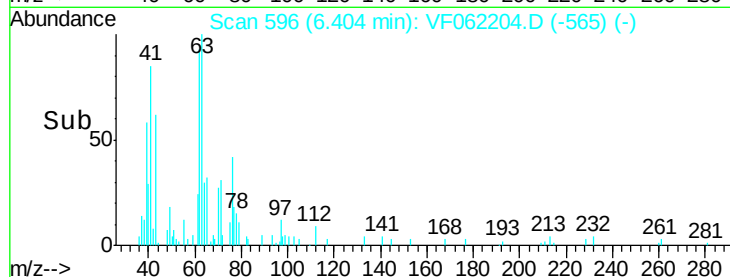
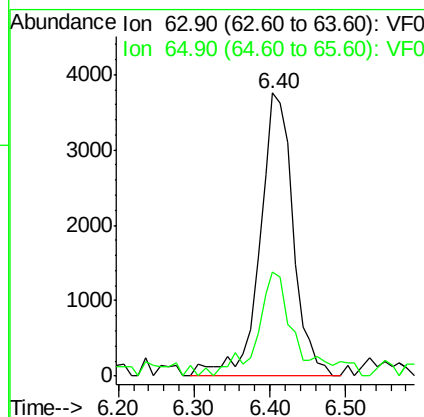
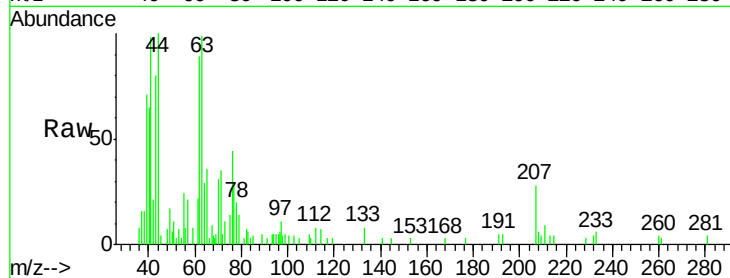
65 32.7 25.9 38.9

Manual Integrations

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#46

Dibromomethane

Concen: 2.521 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

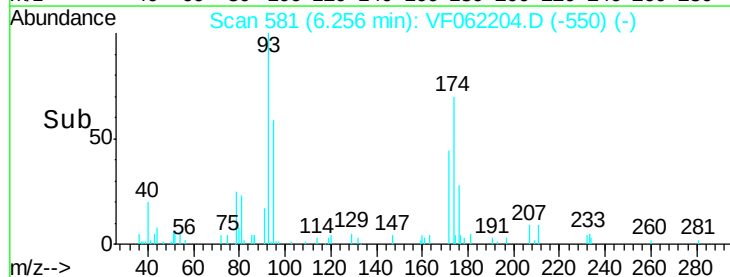
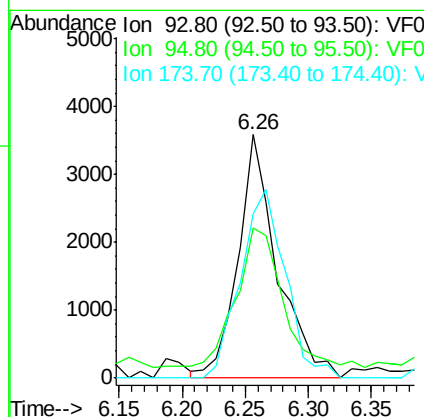
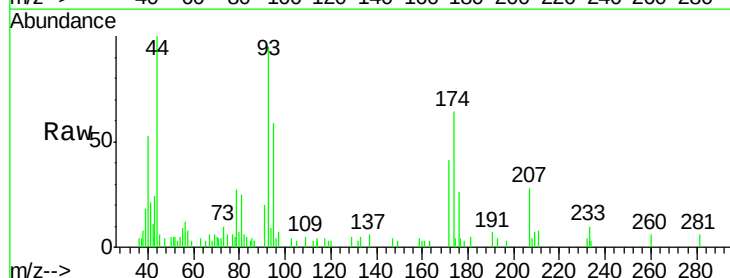
Tgt Ion: 93 Resp: 7707

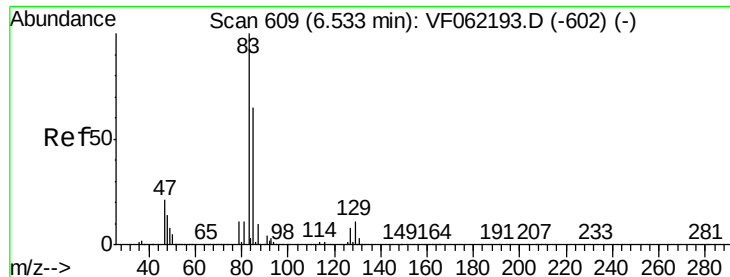
Ion Ratio Lower Upper

93 100

95 71.1 65.1 97.7

174 89.2 81.8 122.6





#47

Bromodichloromethane

Concen: 2.411 ug/l

RT: 6.55 min Scan# 611

Delta R.T. 0.02 min

Lab File: VF062204.D

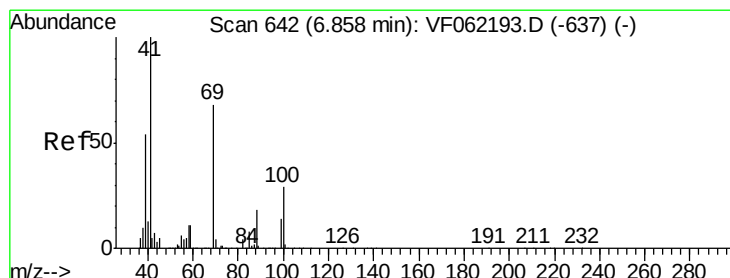
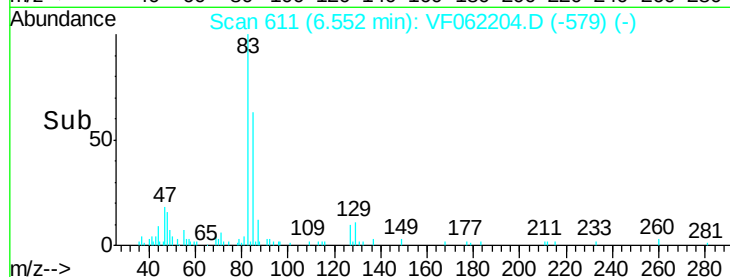
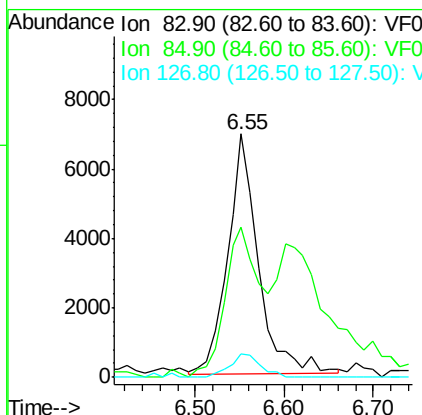
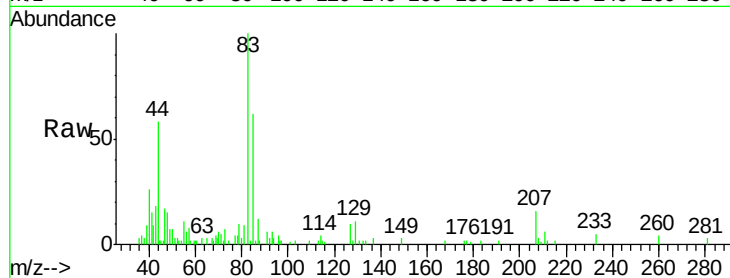
Acq: 18 Apr 2019 14:47

Tot Ion:	83	Resp:	16633
Ion Ratio	Lower	Upper	
83	100		
85	63.3	52.2	78.4
127	9.9	6.7	10.1

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Manual Integrations
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#48

Methyl methacrylate

Concen: 3.151 ug/l

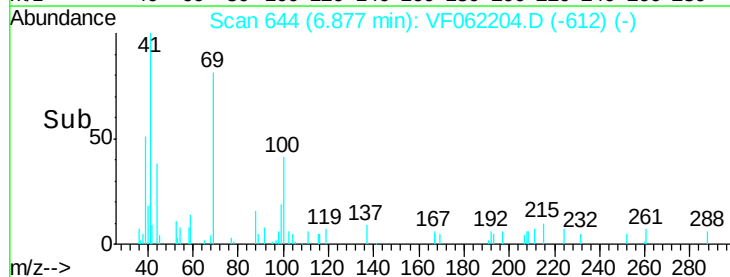
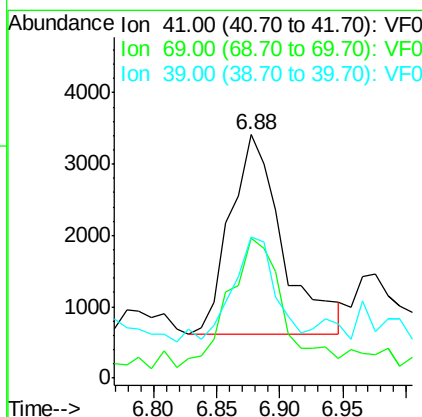
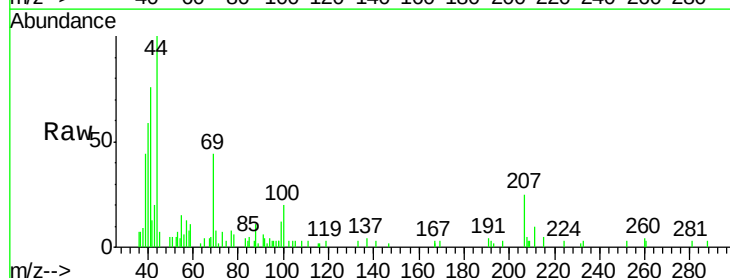
RT: 6.88 min Scan# 644

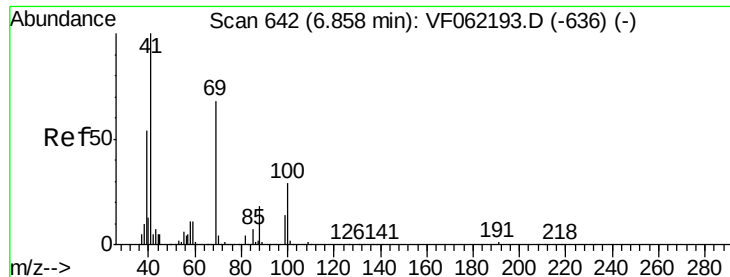
Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	41	Resp:	8173
Ion Ratio	Lower	Upper	
41	100		
69	65.7	54.9	82.3
39	42.7	43.6	65.4#





#49

1,4-Dioxane

Concen: 59.366 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.03 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

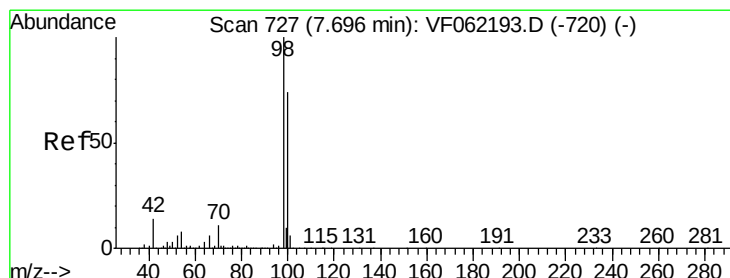
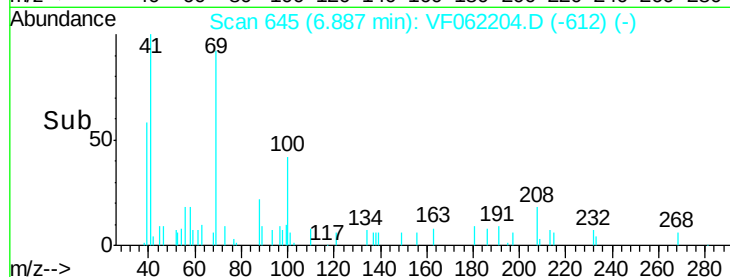
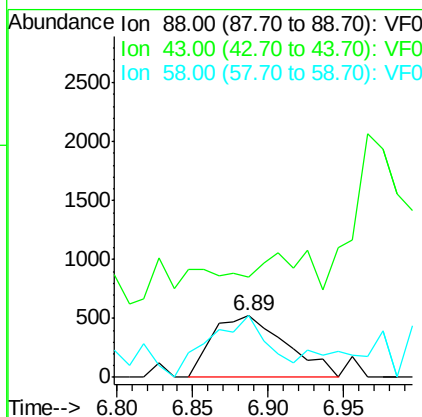
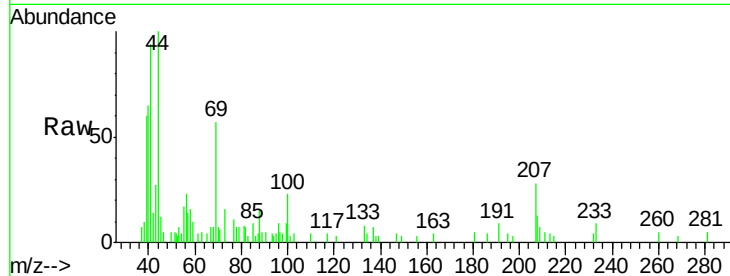
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	88	Resp:	1766
Ion	Ratio	Lower	Upper
88	100		
43	0.0	36.9	55.3#
58	81.7	56.8	85.2

Manual Integrations
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#50

Toluene-d8

Concen: 49.823 ug/l

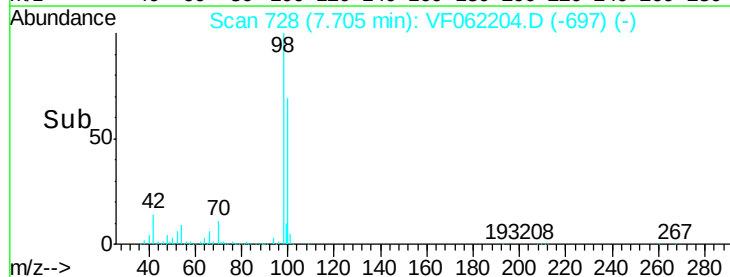
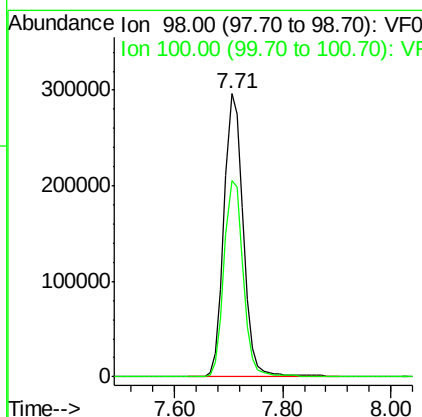
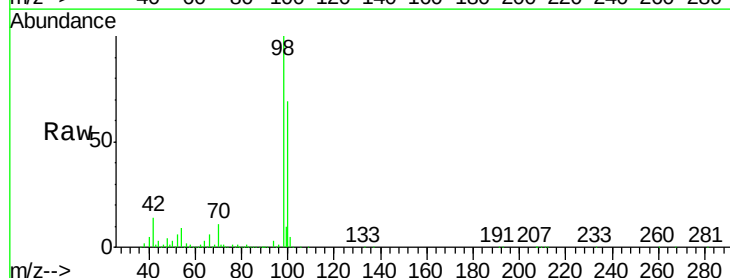
RT: 7.71 min Scan# 728

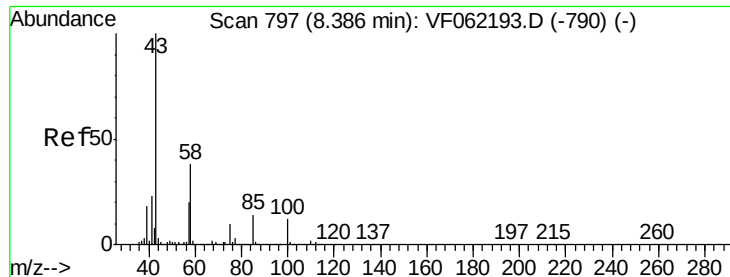
Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	98	Resp:	731770
Ion	Ratio	Lower	Upper
98	100		
100	69.2	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 20.445 ug/l

RT: 8.40 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 60021

Ion Ratio Lower Upper

43 100

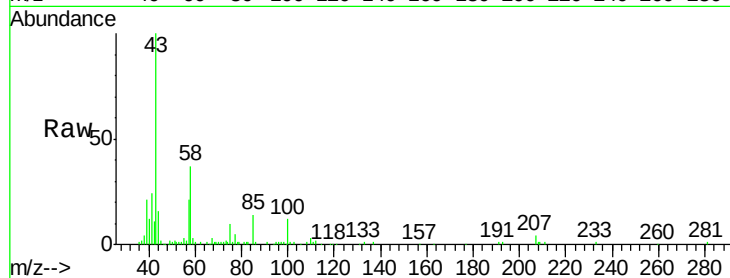
58 38.4 29.3 43.9

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

30000

25000

20000

15000

10000

5000

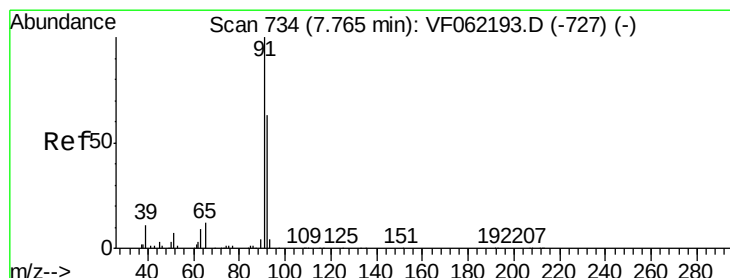
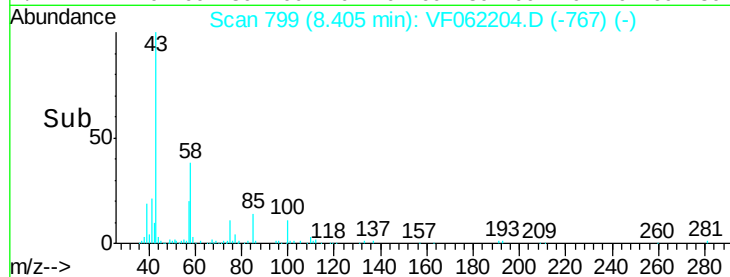
0

8.30

8.40

8.50

Time-->



#52

Toluene

Concen: 2.464 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF062204.D

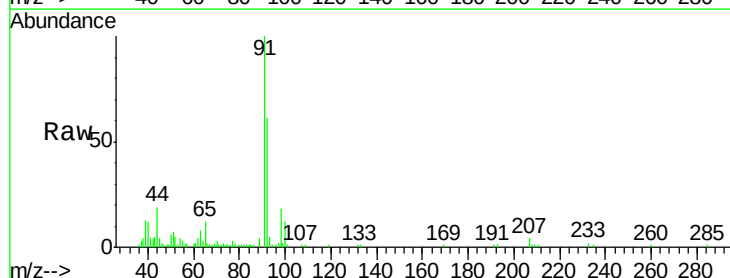
Acq: 18 Apr 2019 14:47

Tgt Ion: 92 Resp: 27094

Ion Ratio Lower Upper

92 100

91 168.0 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

20000

15000

10000

5000

0

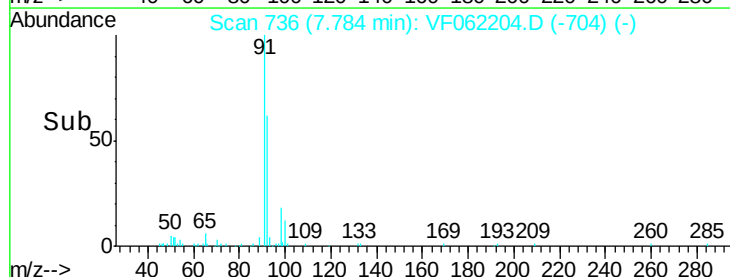
7.70

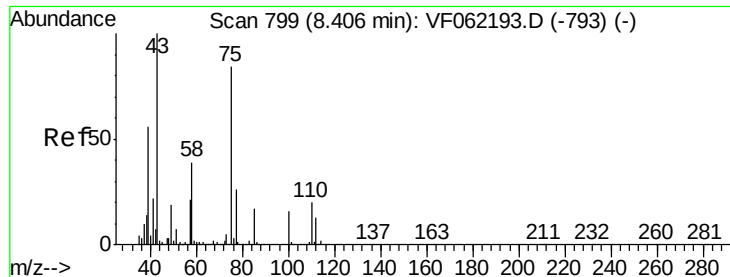
7.75

7.80

7.85

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.502 ug/l

RT: 8.42 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 75 Resp: 12965

Ion Ratio Lower Upper

75 100

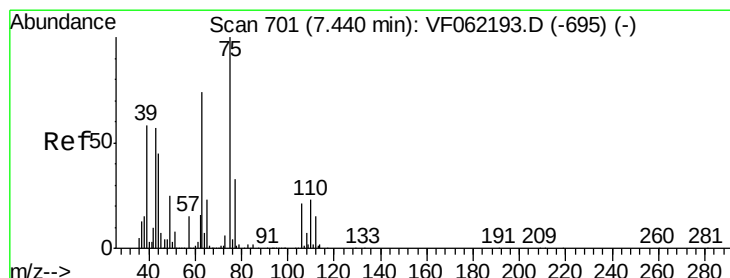
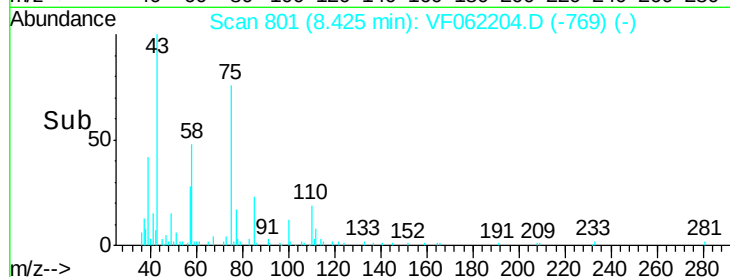
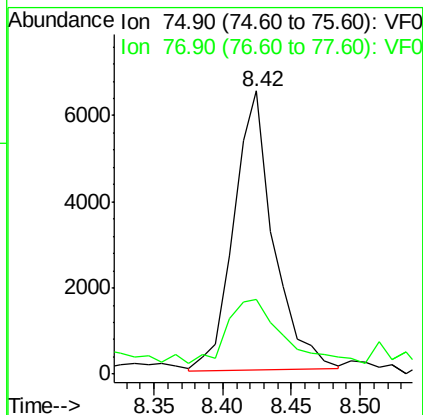
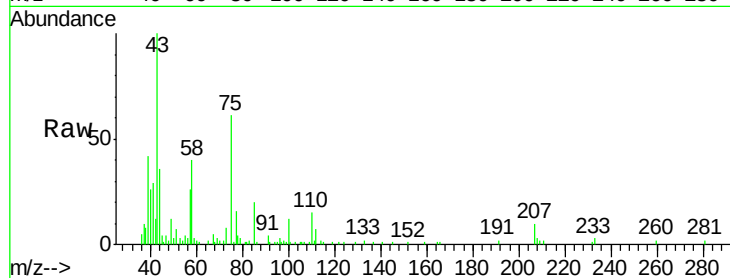
77 22.9 24.6 36.8#

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 2.650 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

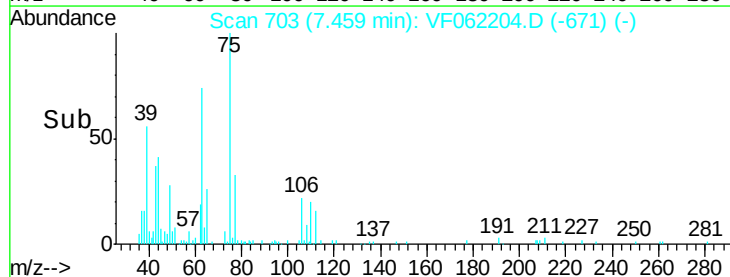
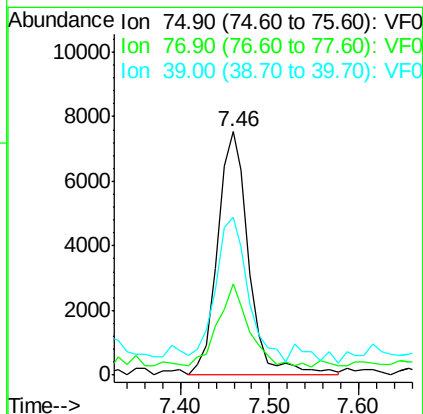
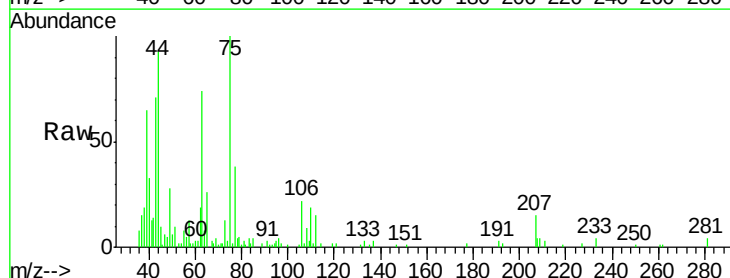
Tgt Ion: 75 Resp: 18575

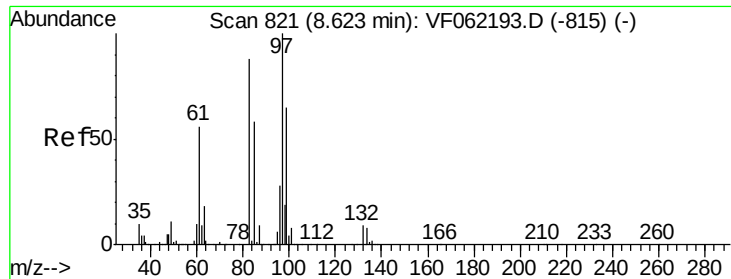
Ion Ratio Lower Upper

75 100

77 33.7 26.4 39.6

39 59.4 46.7 70.1





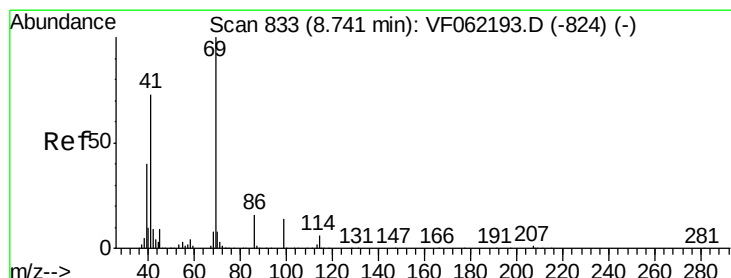
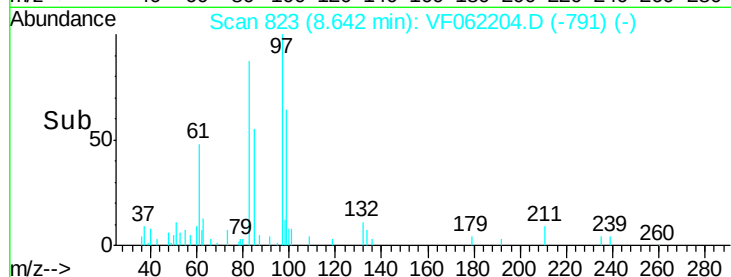
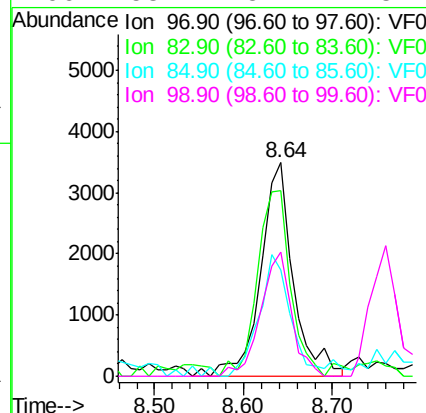
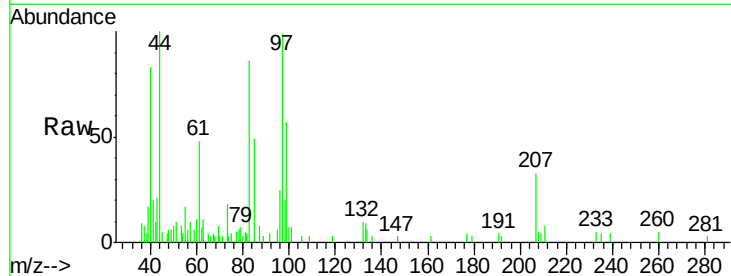
#55
 1,1,2-Trichloroethane
 Concen: 2.870 ug/l
 RT: 8.64 min Scan# 823
 Delta R.T. 0.02 min
 Lab File: VF062204.D
 Acq: 18 Apr 2019 14:47

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	97	Resp:	8841
Ion	Ratio	Lower	Upper
97	100		
83	82.3	70.2	105.2
85	46.5	46.2	69.4
99	58.1	52.2	78.4

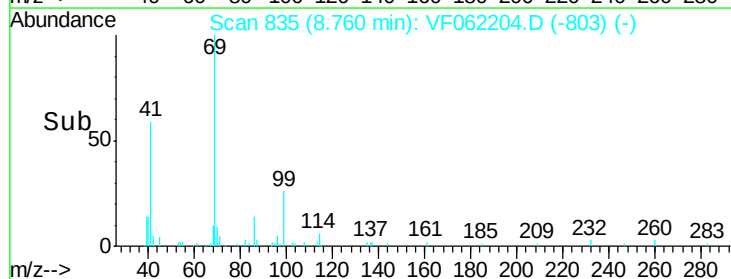
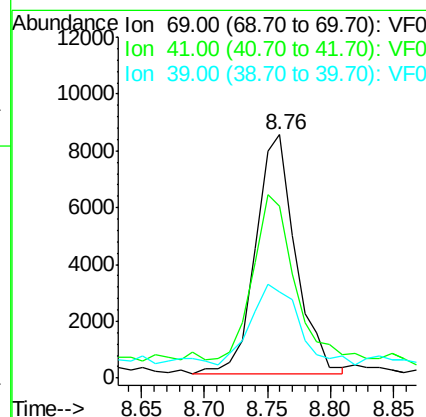
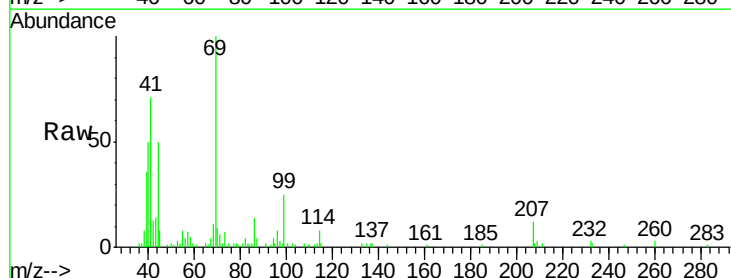
Manual Integrations
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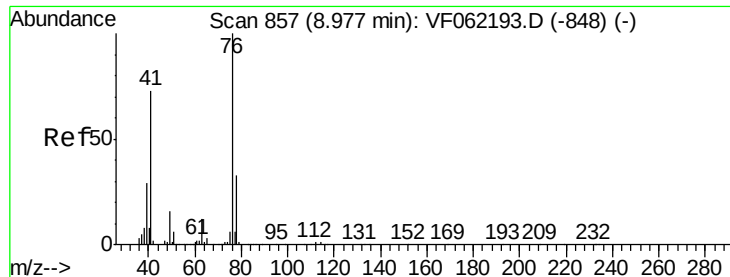
MMDadoda
 4/19/2019 10:52:18 AM



#56
 Ethyl methacrylate
 Concen: 5.277 ug/l
 RT: 8.76 min Scan# 835
 Delta R.T. 0.02 min
 Lab File: VF062204.D
 Acq: 18 Apr 2019 14:47

Tgt Ion:	69	Resp:	18480
Ion	Ratio	Lower	Upper
69	100		
41	71.6	61.5	92.3
39	41.2	33.3	49.9





#57

1,3-Dichloropropane

Concen: 2.410 ug/l

RT: 8.99 min Scan# 858

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 76 Resp: 11989

Ion Ratio Lower Upper

76 100

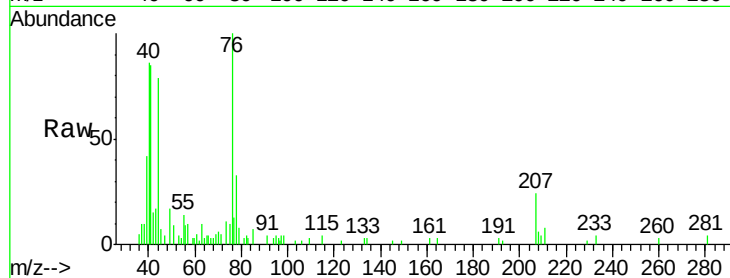
78 35.4 26.5 39.7

Manual Integrations

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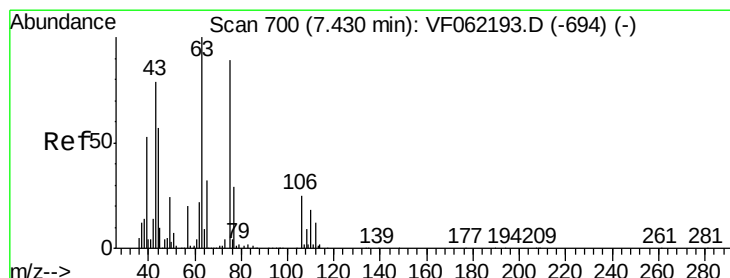
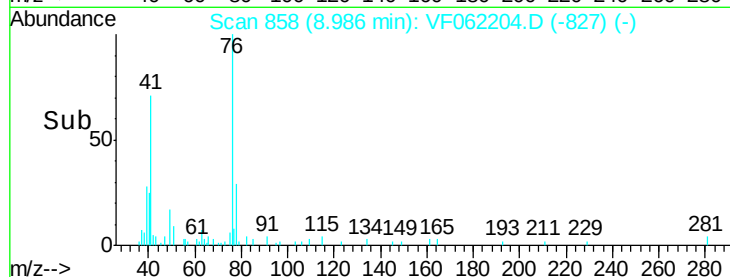
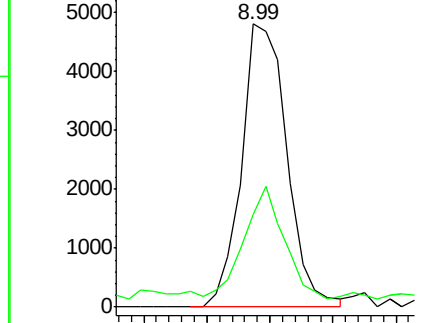
MMDadoda

4/19/2019 10:52:18 AM



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 17.853 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.02 min

Lab File: VF062204.D

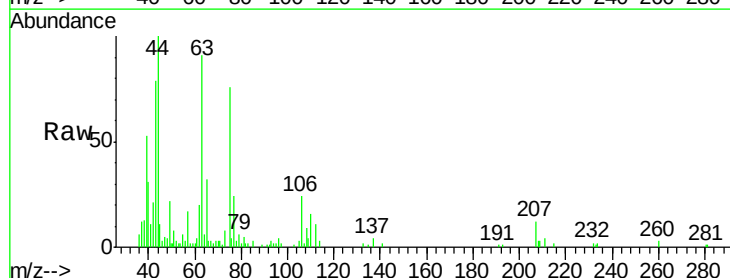
Acq: 18 Apr 2019 14:47

Tgt Ion: 63 Resp: 18153

Ion Ratio Lower Upper

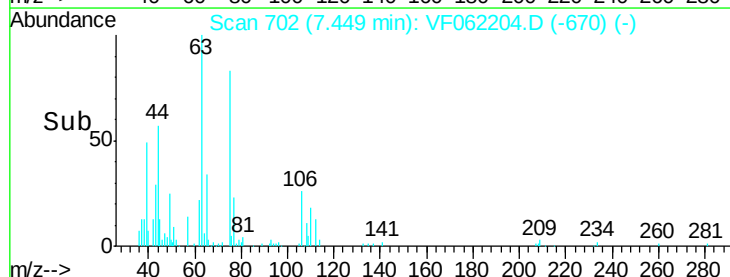
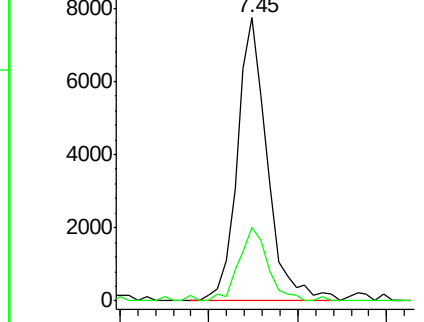
63 100

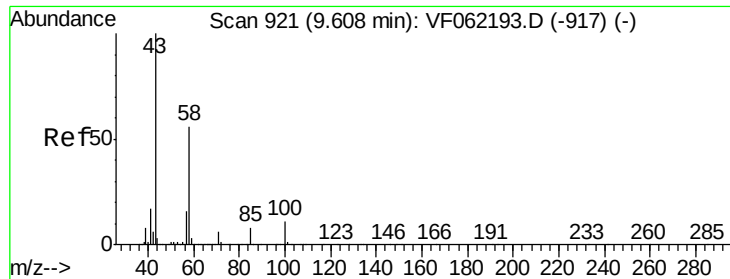
106 24.7 21.4 32.0



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V





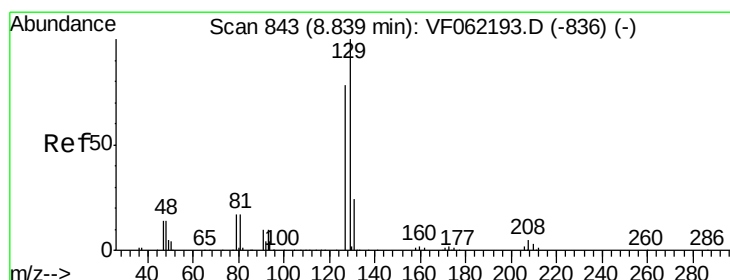
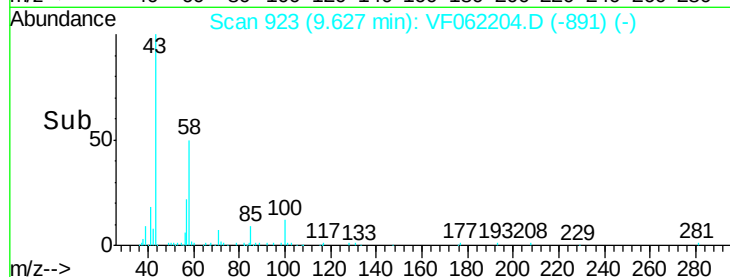
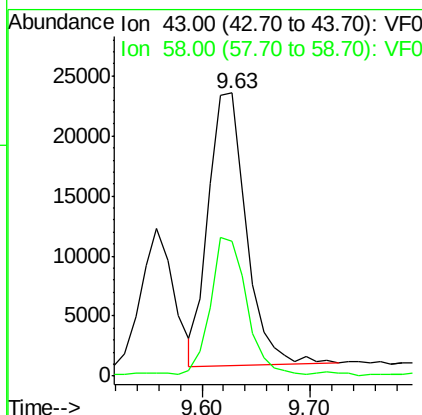
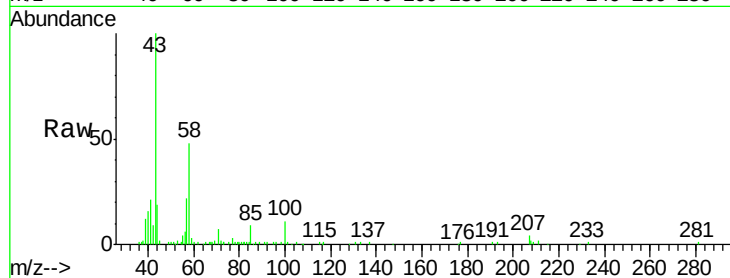
#59
2-Hexanone
Concen: 28.605 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 55331
Ion Ratio Lower Upper
43 100
58 50.6 24.6 74.0

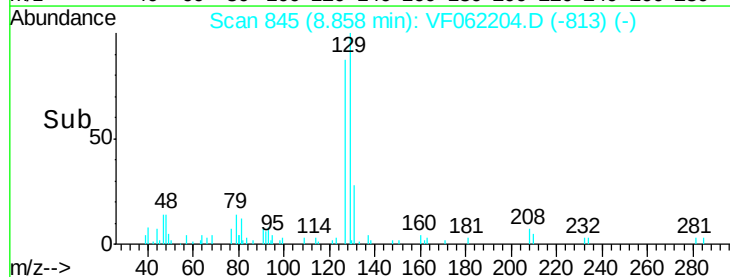
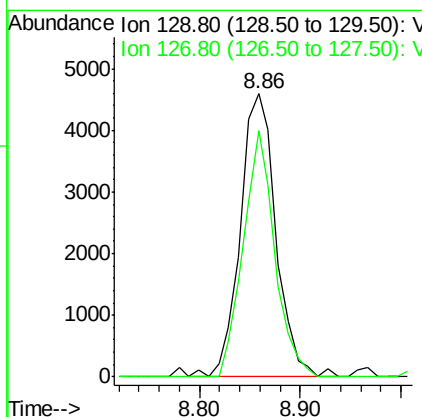
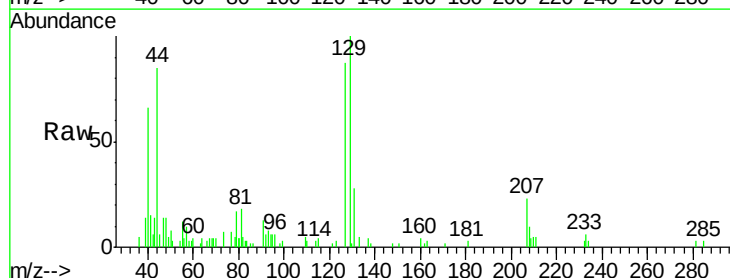
Manual Integrations
APPROVED

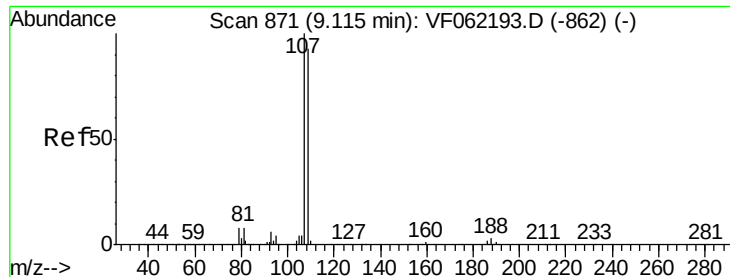
MMDadoda
4/19/2019 10:52:18 AM



#60
Dibromochloromethane
Concen: 2.466 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.02 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion: 129 Resp: 11296
Ion Ratio Lower Upper
129 100
127 76.7 39.0 117.0





#61

1,2-Dibromoethane

Concen: 2.460 ug/l

RT: 9.12 min Scan# 872

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 107 Resp: 8537

Ion Ratio Lower Upper

107 100

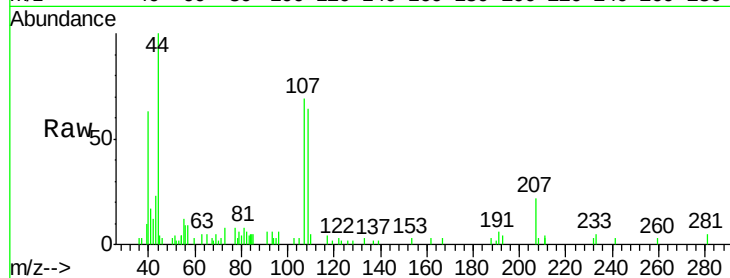
109 104.1 74.3 111.5

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:18 AM

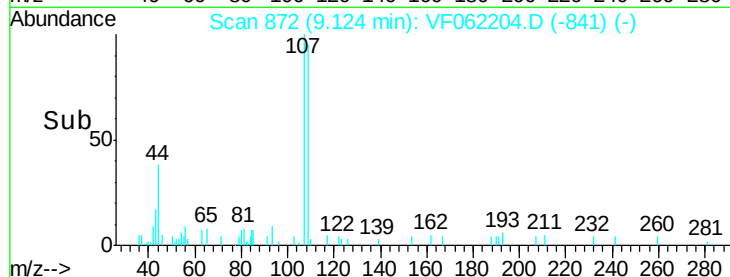


Abundance Ion 106.90 (106.60 to 107.60): V

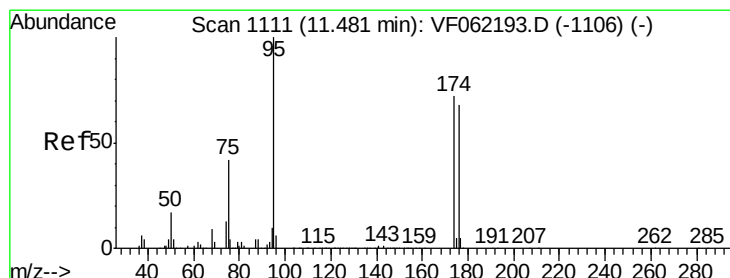
Ion 108.80 (108.50 to 109.50): V

9.12

Time-->



Time-->



#62

4-Bromofluorobenzene

Concen: 56.706 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

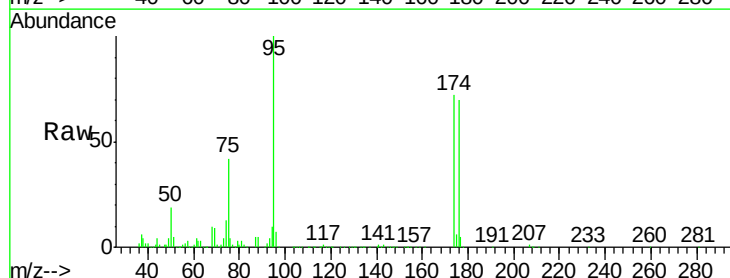
Tgt Ion: 95 Resp: 320398

Ion Ratio Lower Upper

95 100

174 83.3 0.0 159.4

176 81.5 0.0 155.4



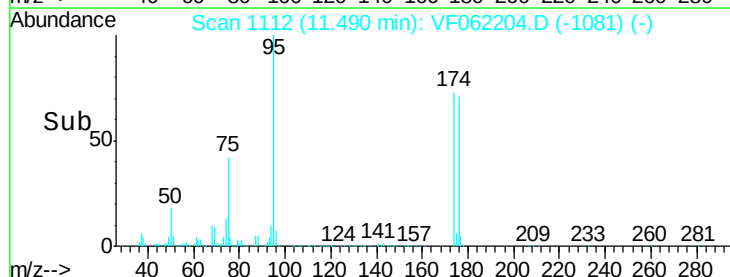
Abundance Ion 94.90 (94.60 to 95.60): VF0

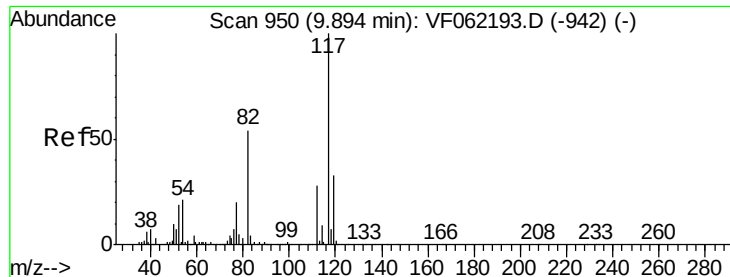
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.49

Time-->





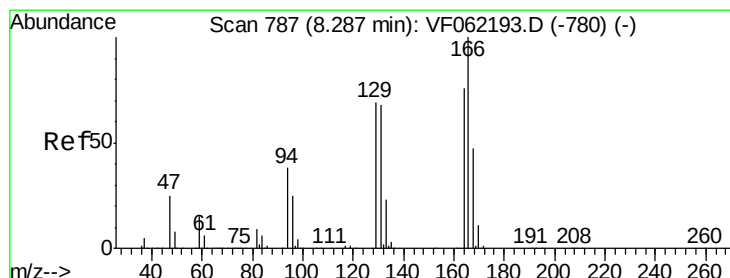
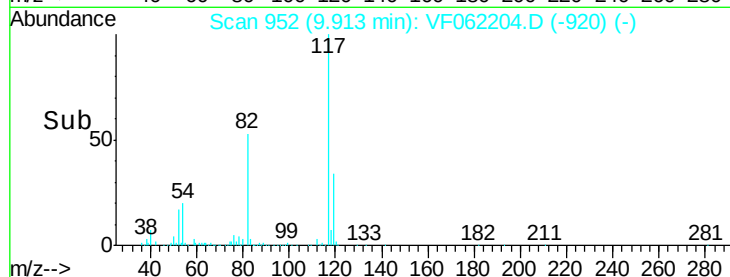
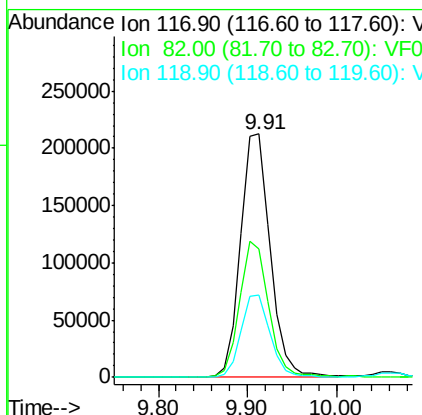
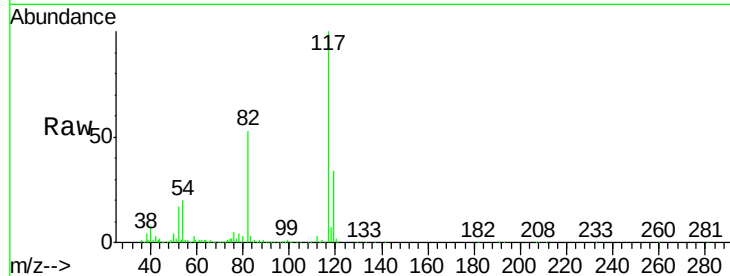
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	491289		
82	52.9		43.2	64.8
119	33.7		26.2	39.4

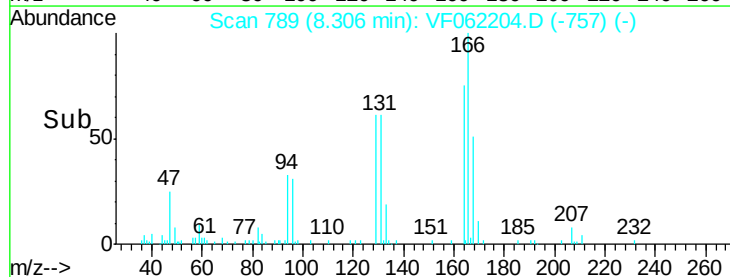
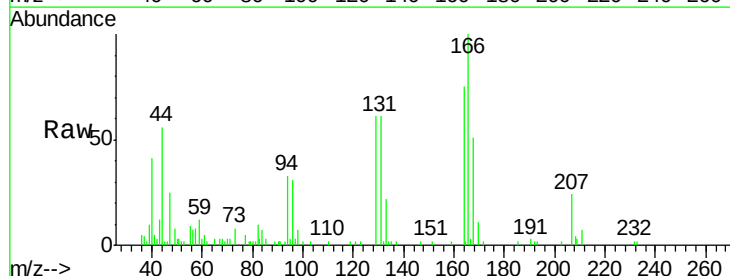
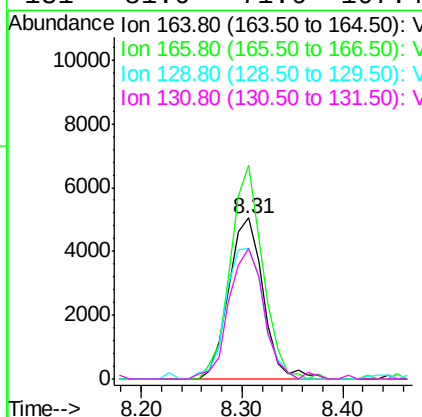
Manual Integrations
APPROVED

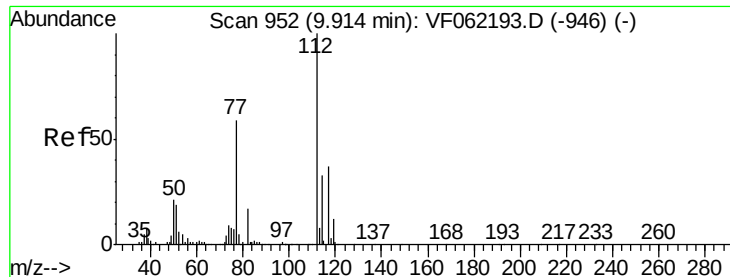
MMDadoda
4/19/2019 10:52:18 AM



#64
Tetrachloroethene
Concen: 2.714 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.02 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	12036		
166	132.5		104.7	157.1
129	80.7		72.6	109.0
131	81.0		71.6	107.4





#65

Chlorobenzene

Concen: 2.798 ug/l

RT: 9.93 min Scan# 954

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:112 Resp: 29307

Ion Ratio Lower Upper

112 100

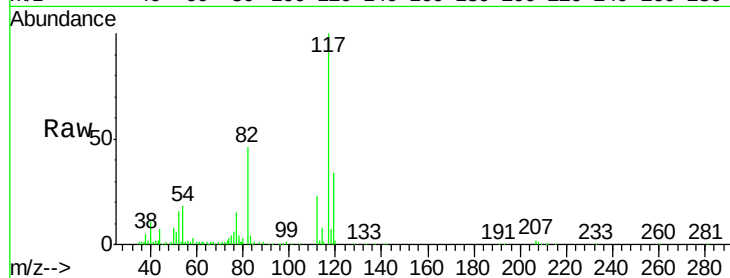
114 33.4 26.1 39.1

Manual Integrations

APPROVED

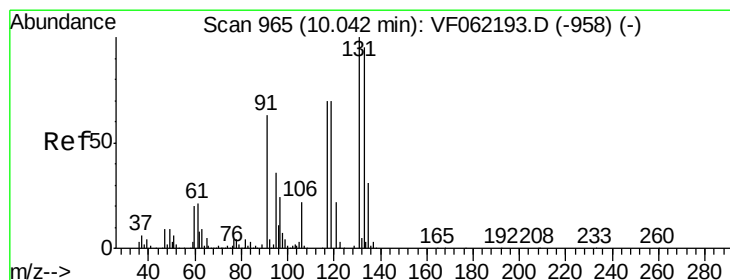
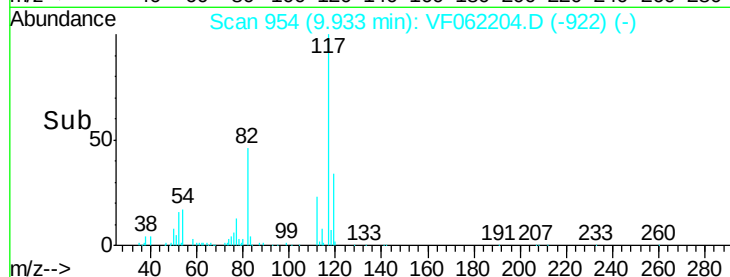
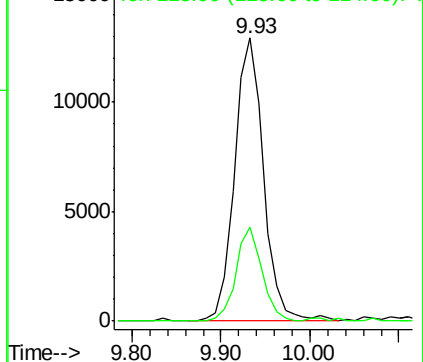
MMDadoda

4/19/2019 10:52:18 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.573 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

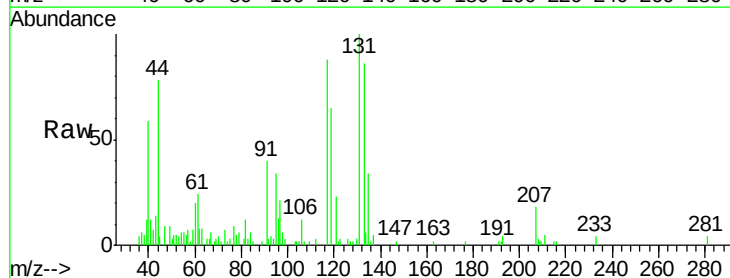
Tgt Ion:131 Resp: 12620

Ion Ratio Lower Upper

131 100

133 97.2 47.7 143.1

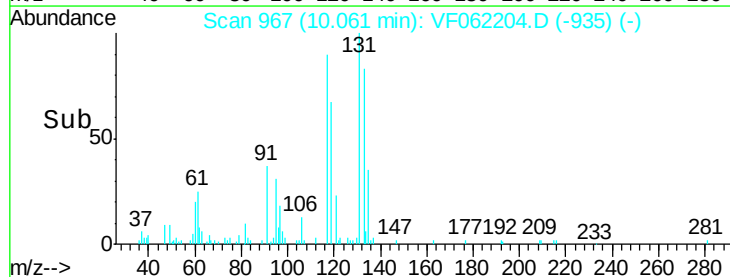
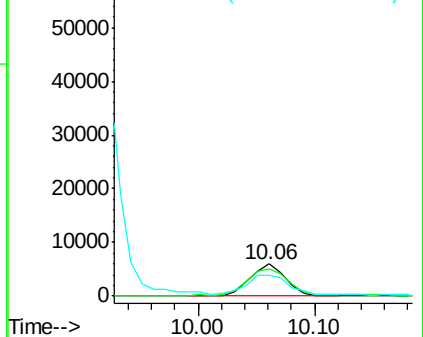
119 79.4 34.6 103.9

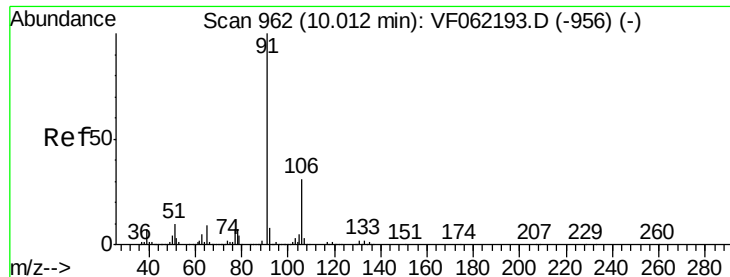


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 2.782 ug/l

RT: 10.03 min Scan# 964

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 91 Resp: 52986

Ion Ratio Lower Upper

91 100

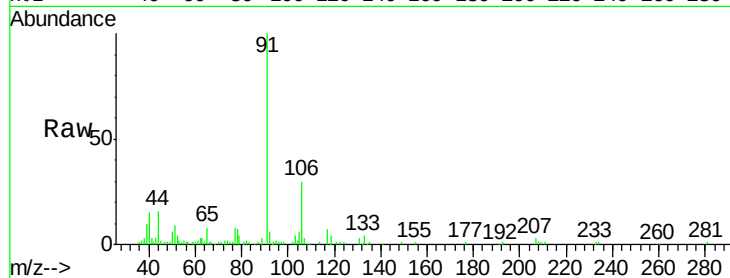
106 30.0 24.9 37.3

Manual Integrations

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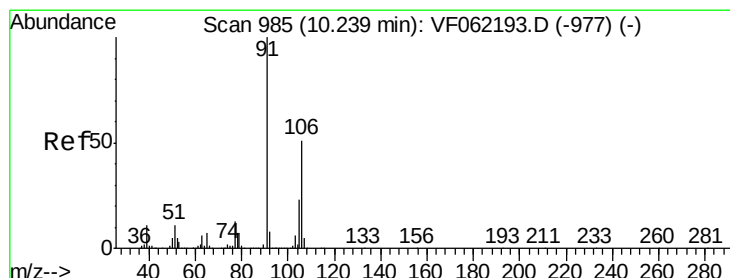
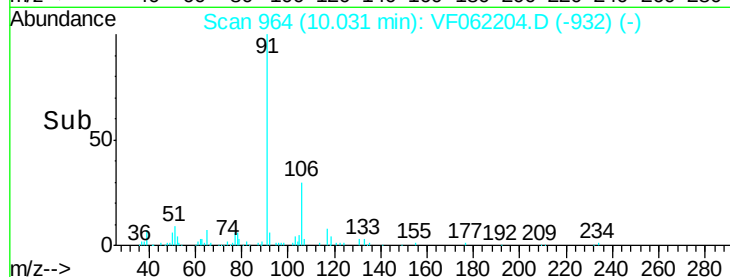
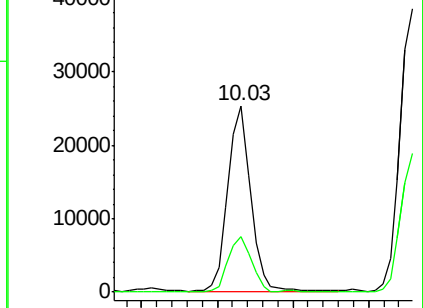
MMDadoda

4/19/2019 10:52:18 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 5.640 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.02 min

Lab File: VF062204.D

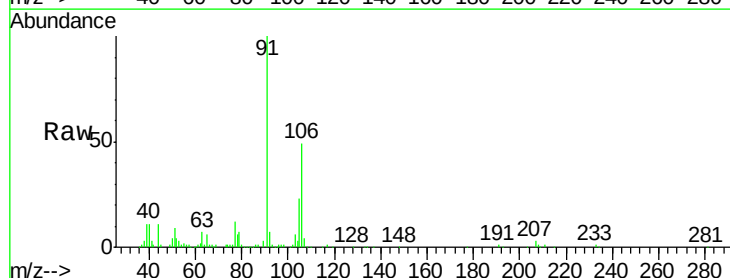
Acq: 18 Apr 2019 14:47

Tgt Ion: 106 Resp: 39553

Ion Ratio Lower Upper

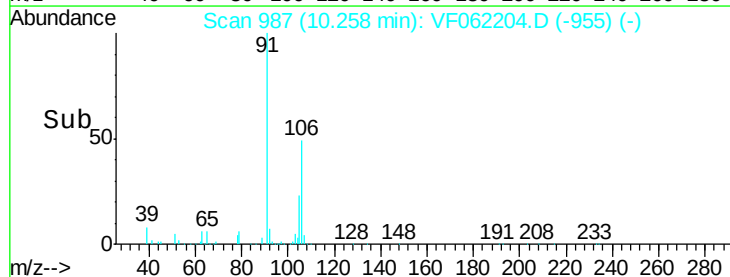
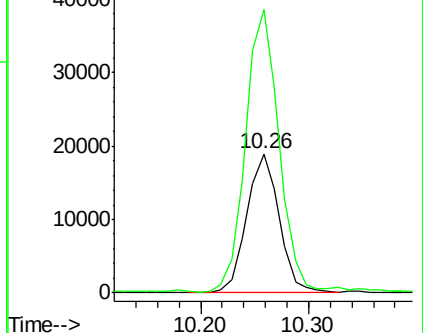
106 100

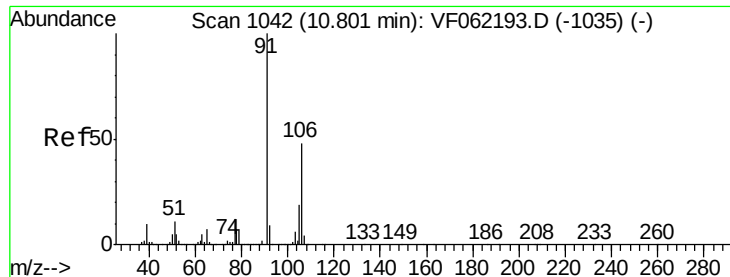
91 209.3 159.1 238.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





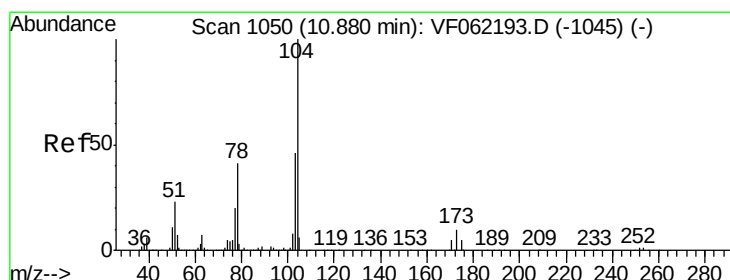
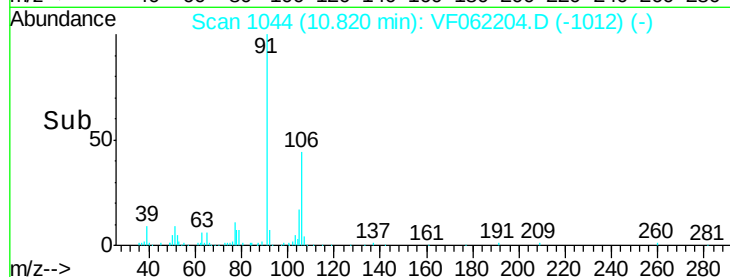
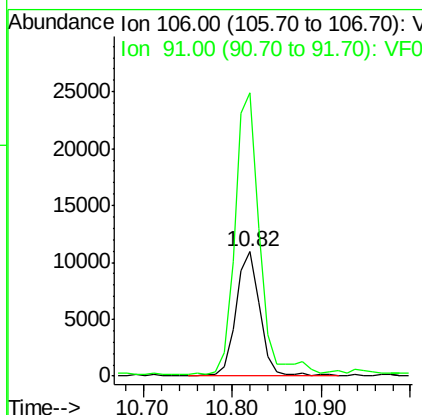
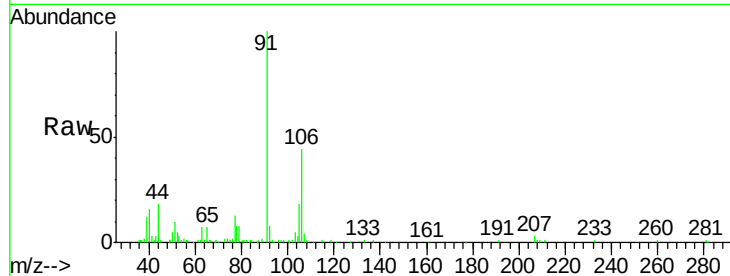
#69
o-Xylene
Concen: 2.636 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:106 Resp: 20520
Ion Ratio Lower Upper
106 100
91 232.7 107.5 322.4

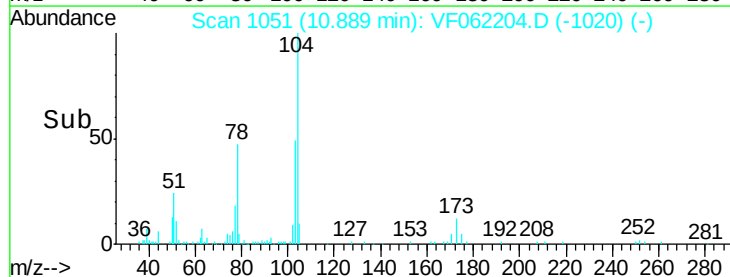
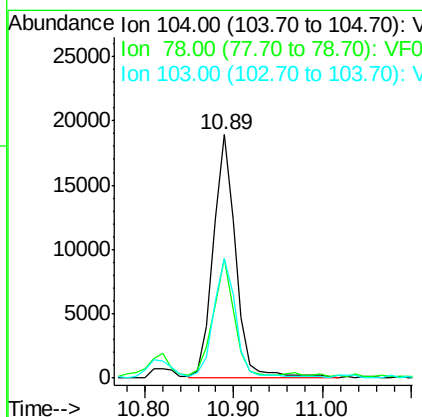
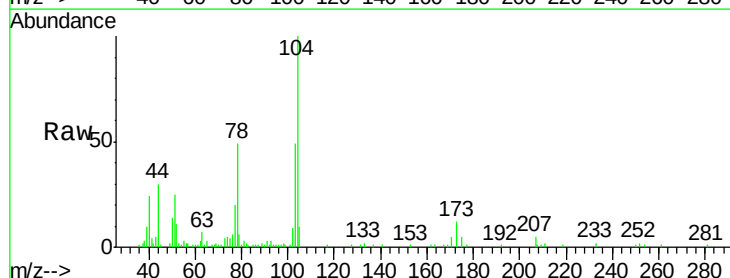
Manual Integrations
APPROVED

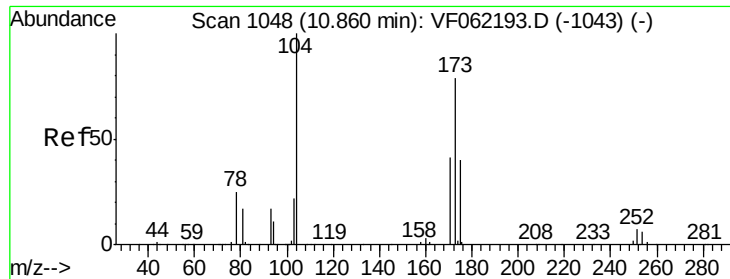
MMDadoda
4/19/2019 10:52:18 AM



#70
Styrene
Concen: 3.040 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion:104 Resp: 33401
Ion Ratio Lower Upper
104 100
78 43.1 34.5 51.7
103 48.5 37.2 55.8





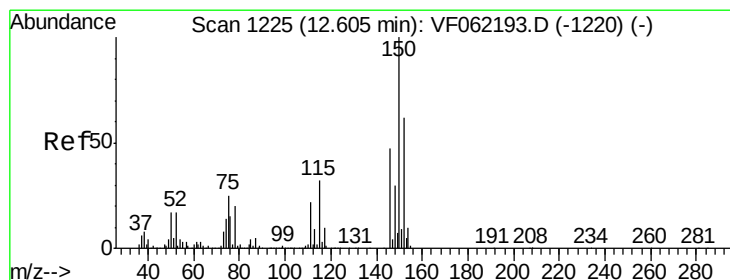
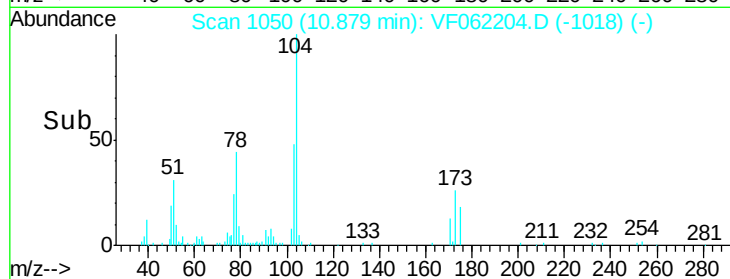
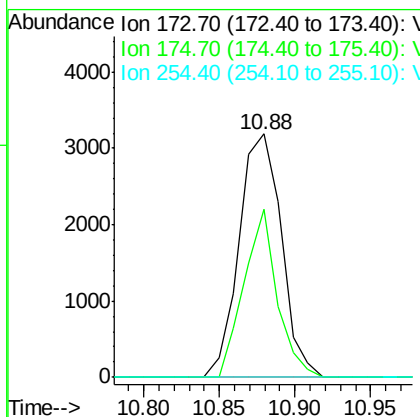
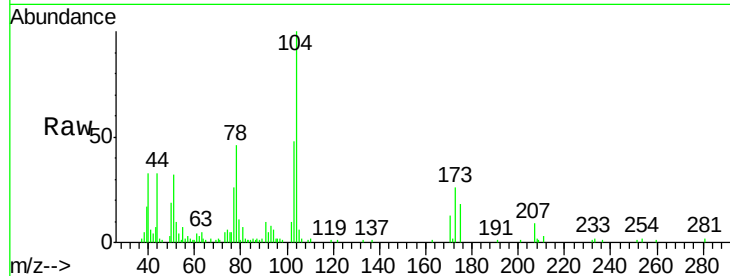
#71
Bromoform
Concen: 2.393 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. 0.02 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	54.3	24.5	73.5
254	0.0	0.1	0.1#

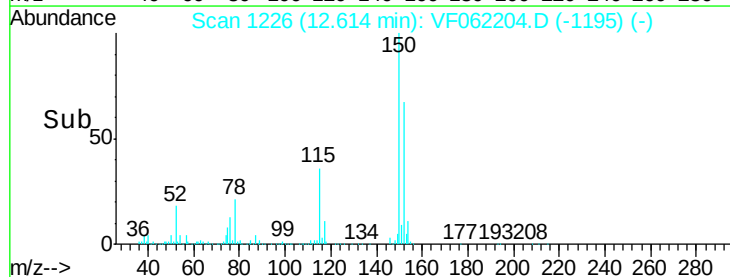
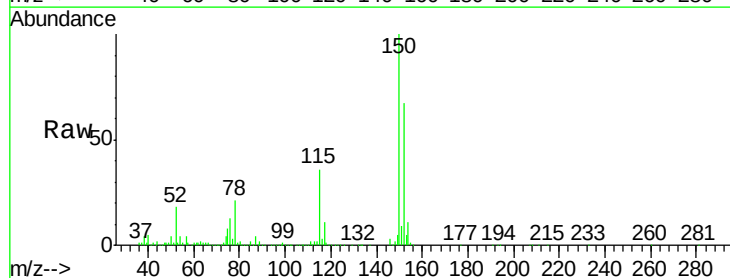
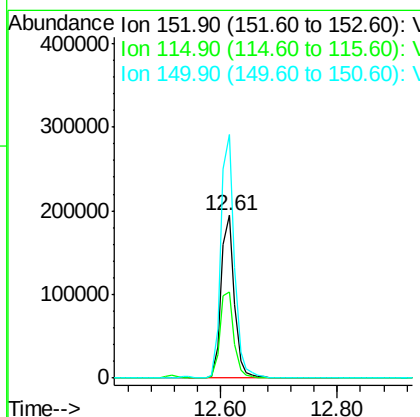
Manual Integrations
APPROVED

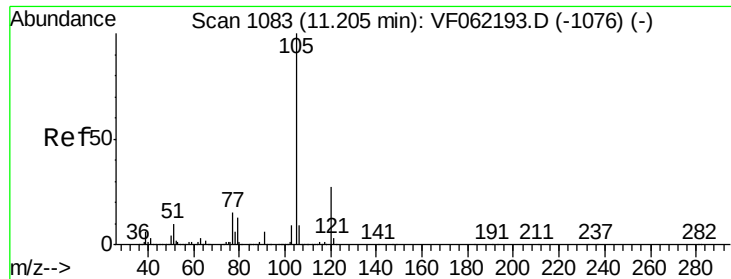
MMDadoda
4/19/2019 10:52:18 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	27.8	83.3
150	152.7	0.0	341.8





#73

Isopropylbenzene

Concen: 2.326 ug/l

RT: 11.21 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:105 Resp: 61328

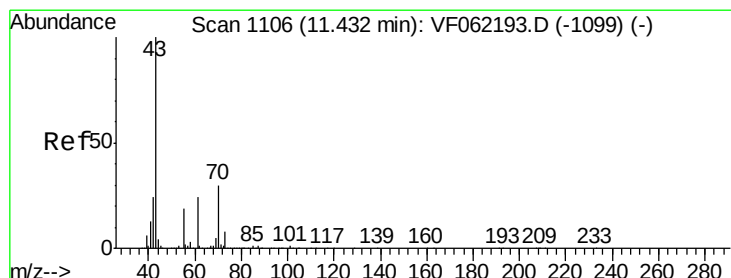
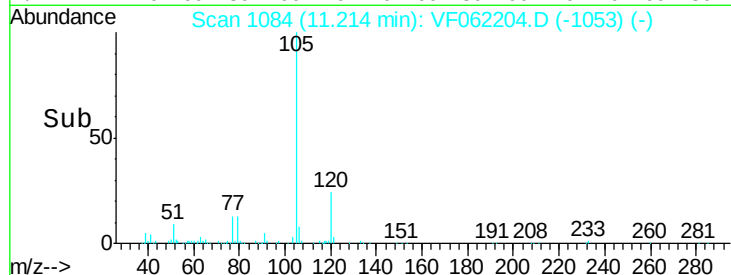
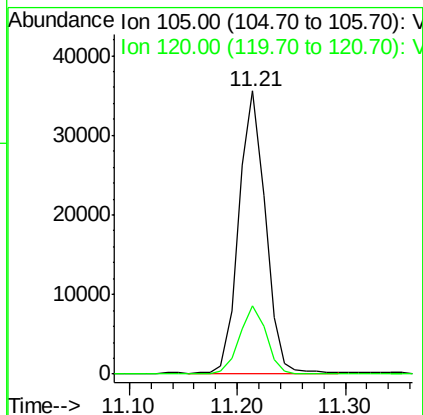
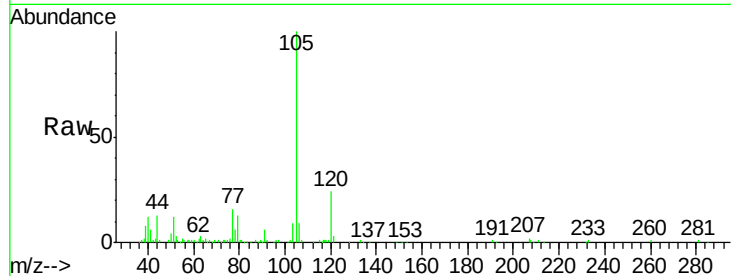
Ion Ratio Lower Upper

105 100

120 24.3 13.0 38.9

Manual Integrations
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4/19/2019 10:52:18 AM



#74

N-ethyl acetate

Concen: 4.932 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion: 43 Resp: 34366

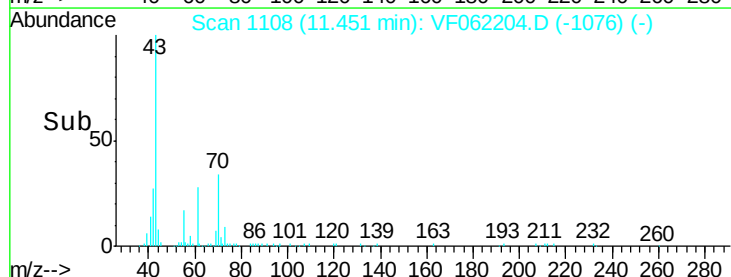
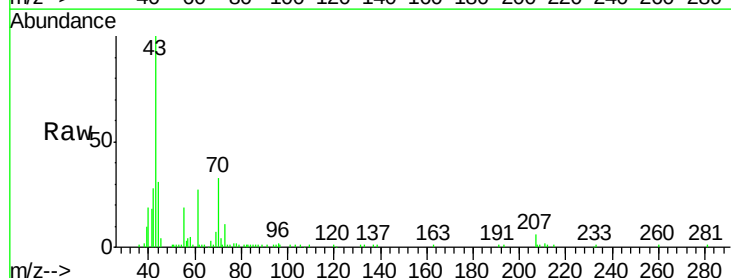
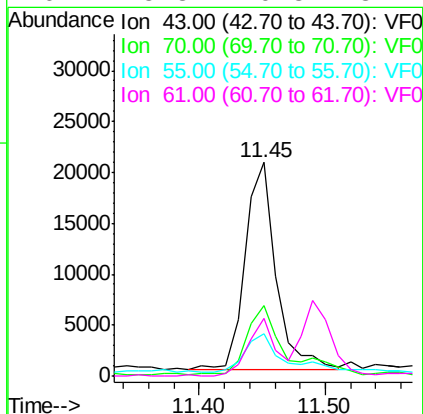
Ion Ratio Lower Upper

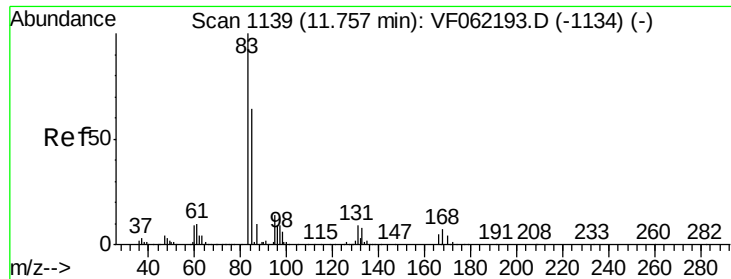
43 100

70 39.8 27.0 40.4

55 26.2 15.7 23.5#

61 25.3 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.662 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

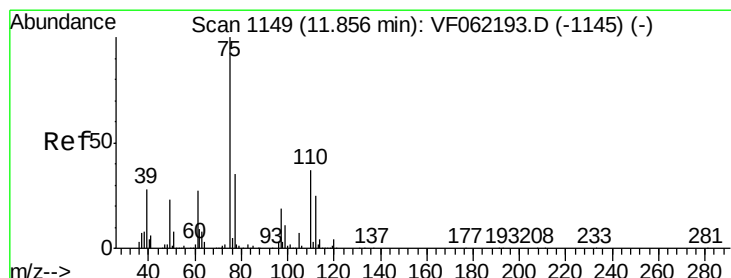
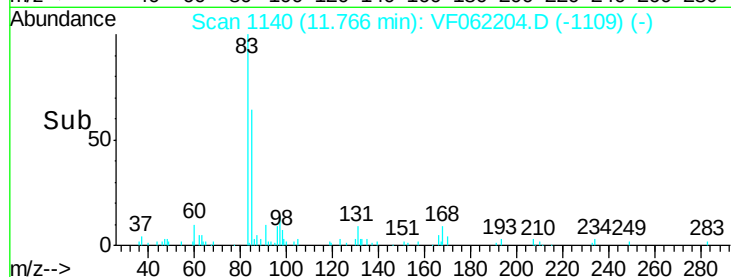
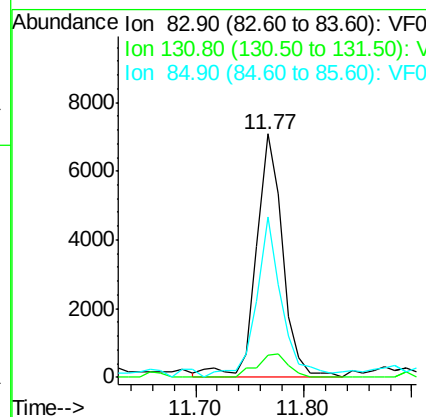
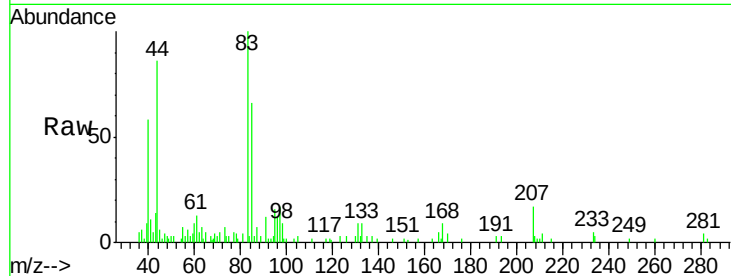
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	83	Resp:	12069
Ion Ratio	Lower	Upper	
83	100		
131	11.3	4.5	13.5
85	63.7	34.7	104.1

Manual Integrations
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4/19/2019 10:52:18 AM



#76

1,2,3-Trichloropropane

Concen: 2.630 ug/l

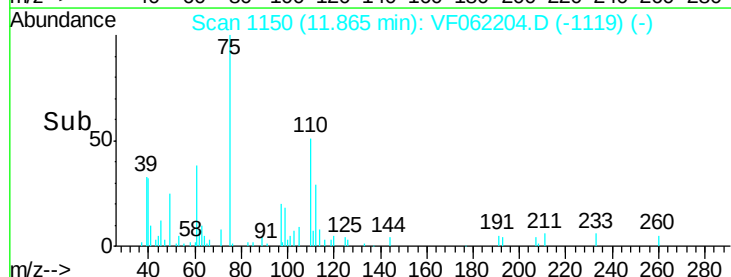
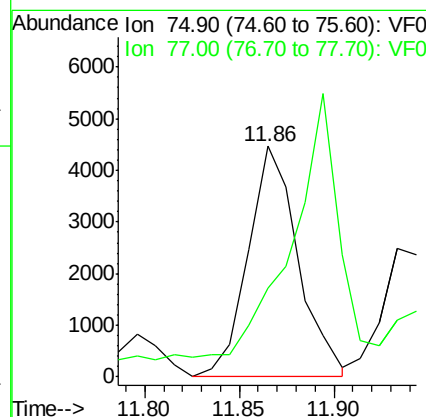
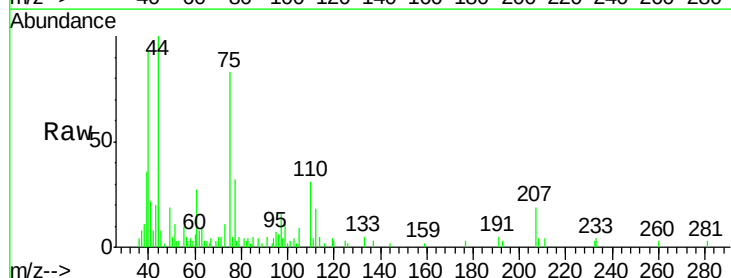
RT: 11.86 min Scan# 1150

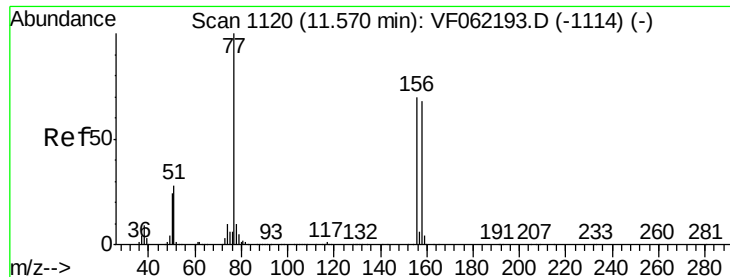
Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	75	Resp:	8203
Ion Ratio	Lower	Upper	
75	100		
77	0.0	7.4	22.2#





#77

Bromobenzene

Concen: 2.354 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

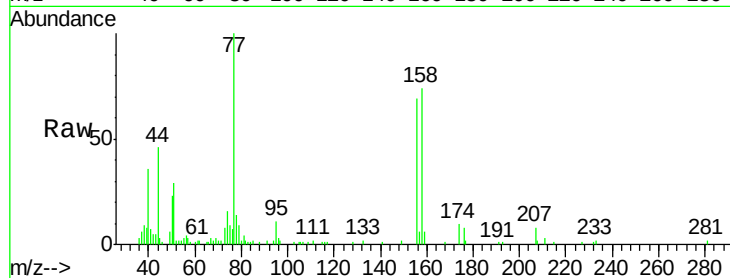
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	156	Resp:	13294
Ion Ratio	Lower	Upper	
156	100		
77	162.4	80.9	242.7
158	107.6	49.8	149.4

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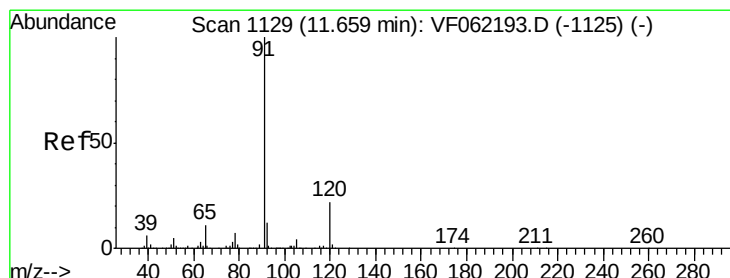
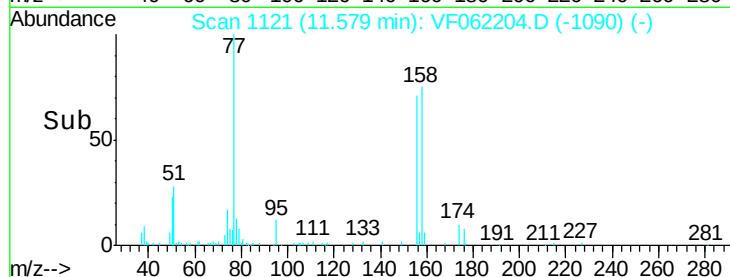
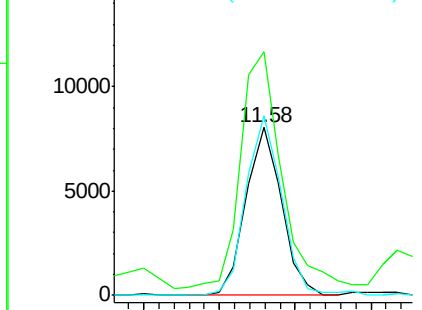
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.627 ug/l

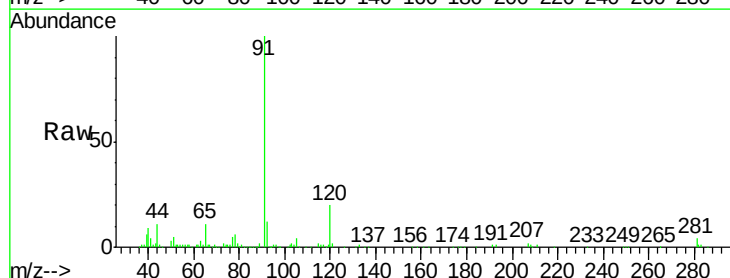
RT: 11.67 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VF062204.D

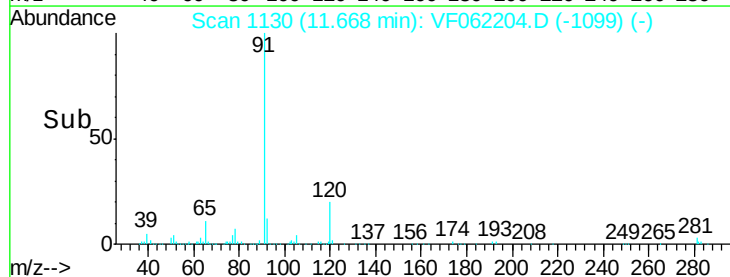
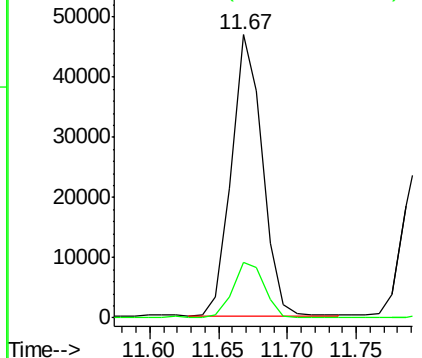
Acq: 18 Apr 2019 14:47

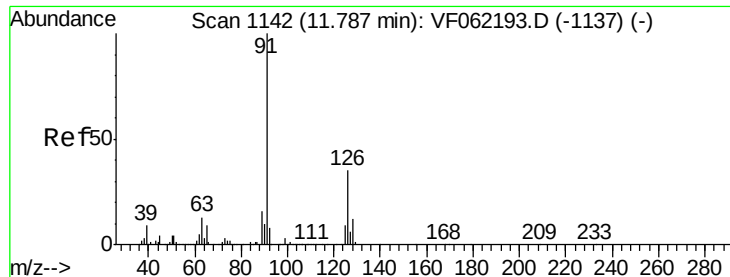
Tgt Ion:	91	Resp:	73067
Ion Ratio	Lower	Upper	
91	100		
120	20.9	11.2	33.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.531 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 91 Resp: 42709

Ion Ratio Lower Upper

91 100

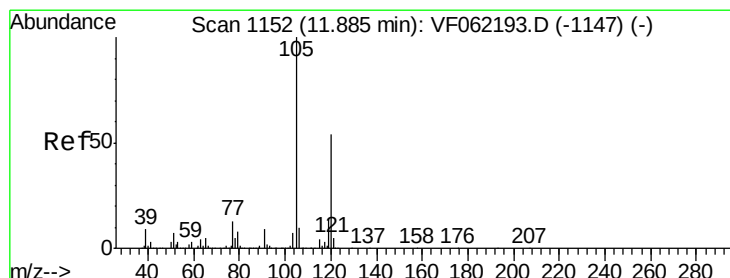
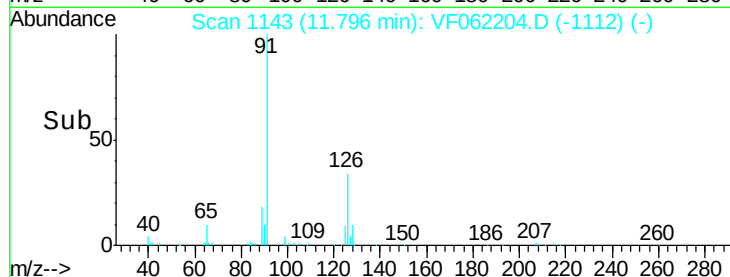
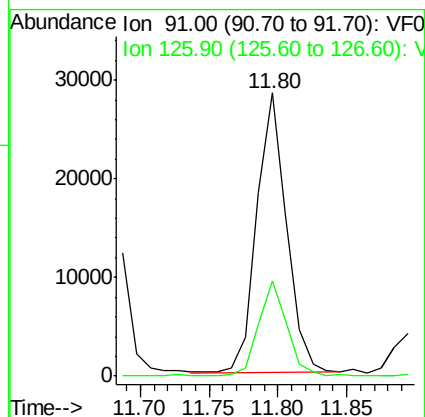
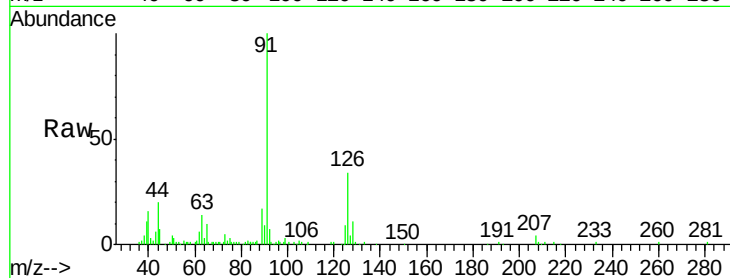
126 32.8 16.9 50.6

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 2.430 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062204.D

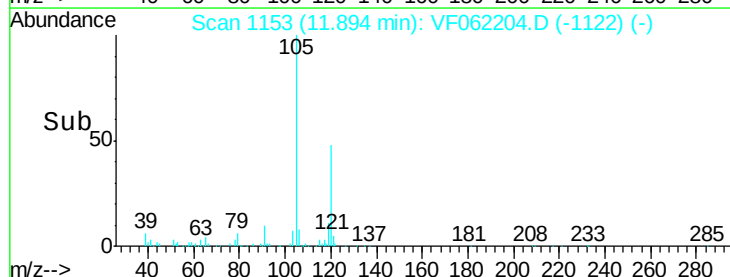
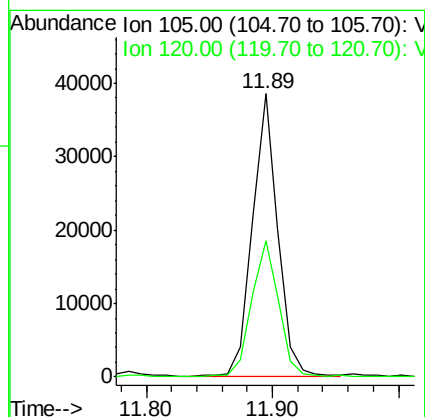
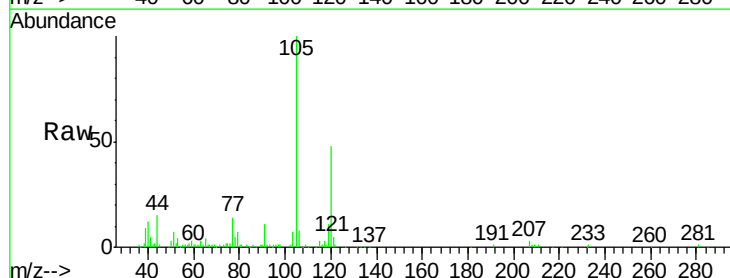
Acq: 18 Apr 2019 14:47

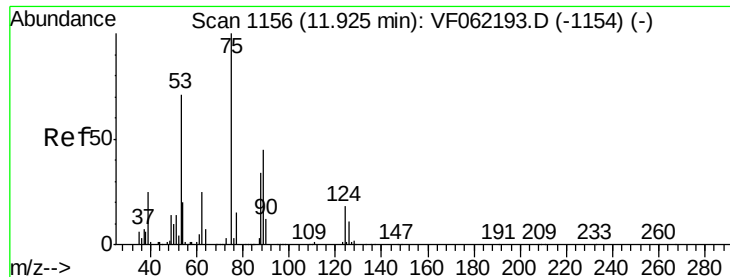
Tgt Ion:105 Resp: 53353

Ion Ratio Lower Upper

105 100

120 52.4 26.2 78.5





#81

trans-1,4-Dichloro-2-butene

Concen: 2.858 ug/l m

RT: 11.93 min Scan# 1157

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

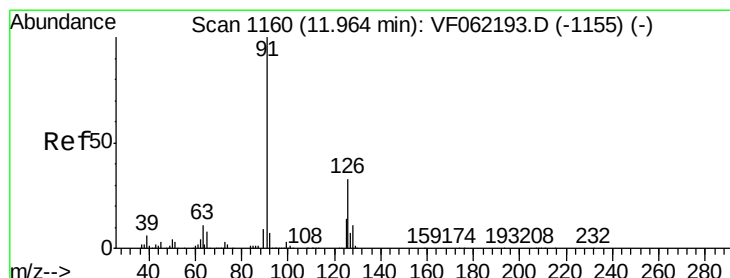
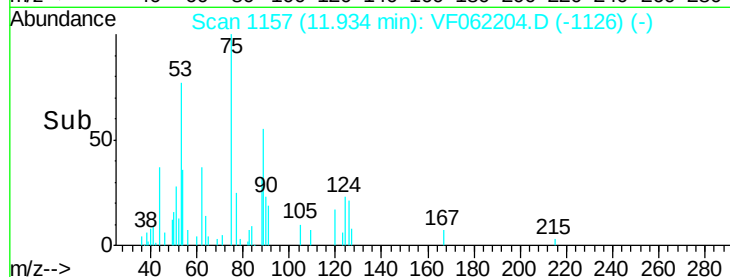
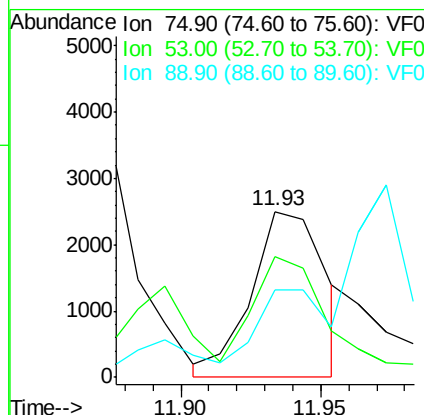
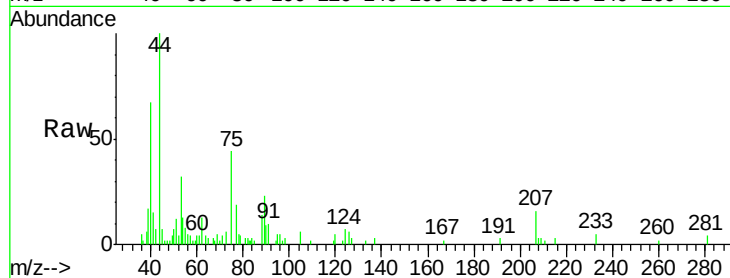
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	77.5	50.2	75.4#
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 2.711 ug/l

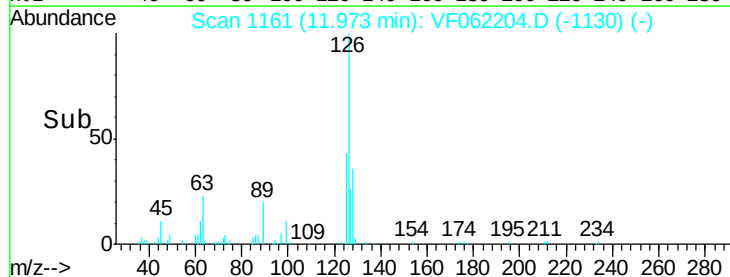
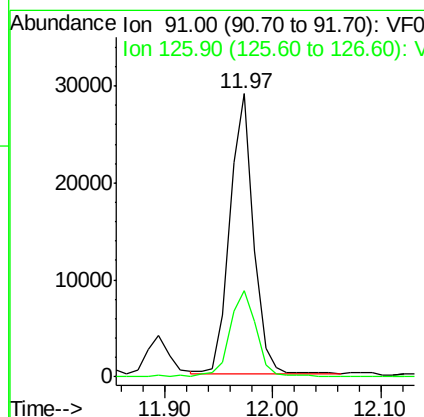
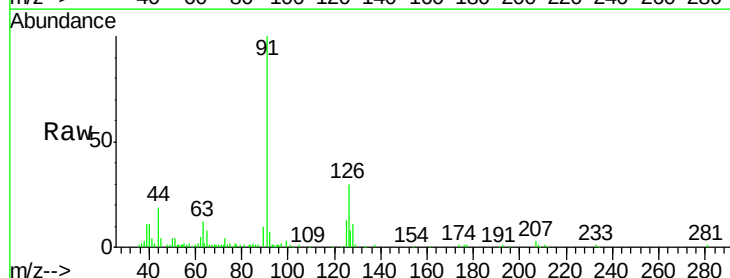
RT: 11.97 min Scan# 1161

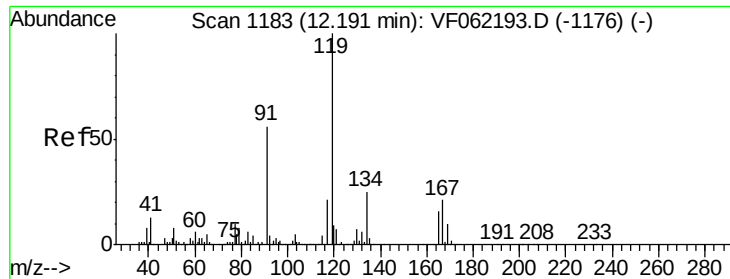
Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	16.9	50.6





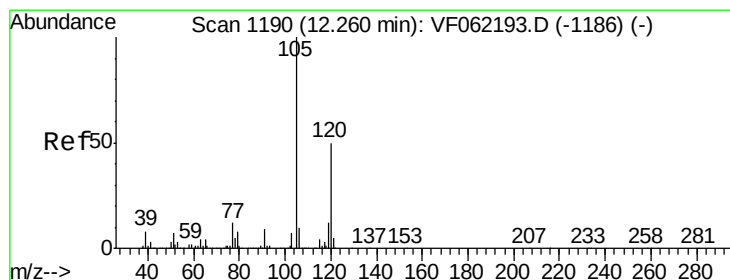
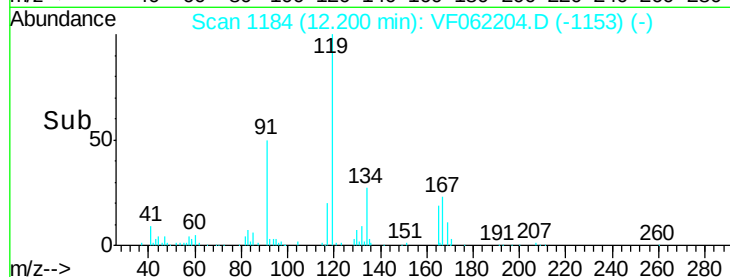
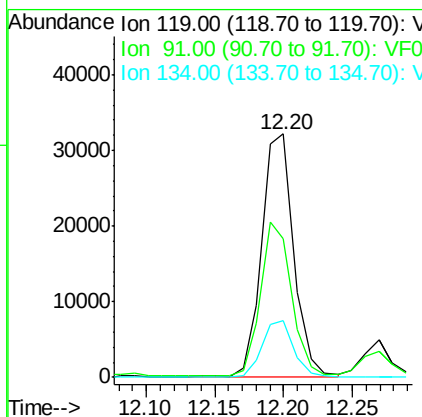
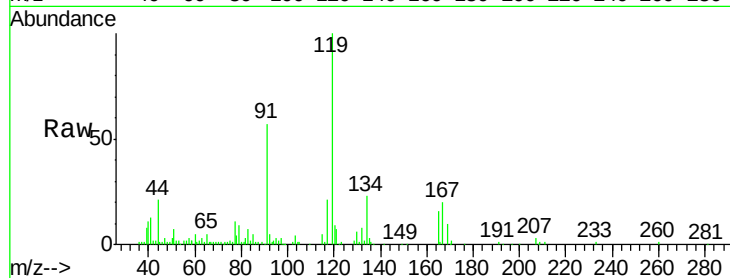
#83
tert-Butylbenzene
Concen: 2.316 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.4	29.4	88.2
134	22.9	11.8	35.3

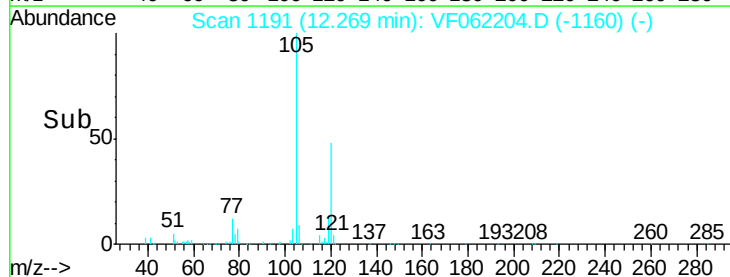
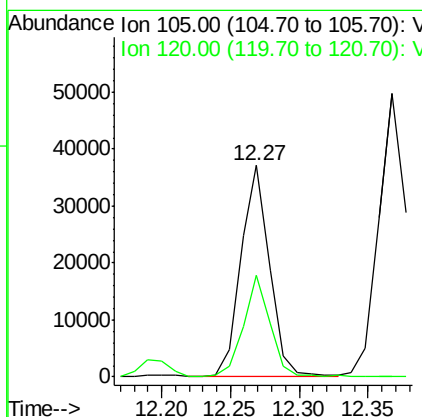
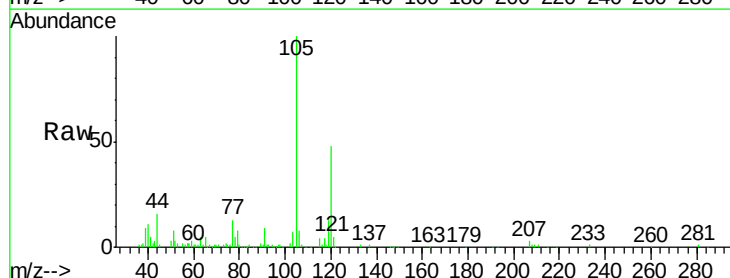
Manual Integrations
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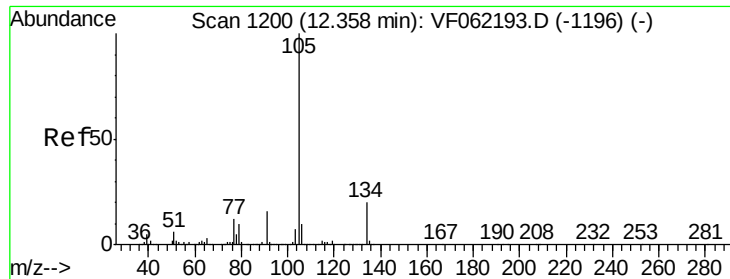
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 2.549 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.9	24.0	72.0





#85

sec-Butylbenzene

Concen: 2.443 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:105 Resp: 72036

Ion Ratio Lower Upper

105 100

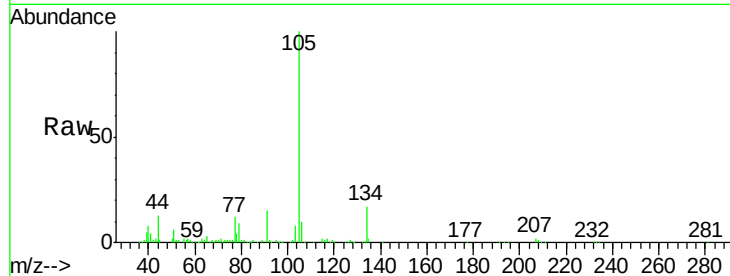
134 18.3 9.7 29.1

Manual Integrations

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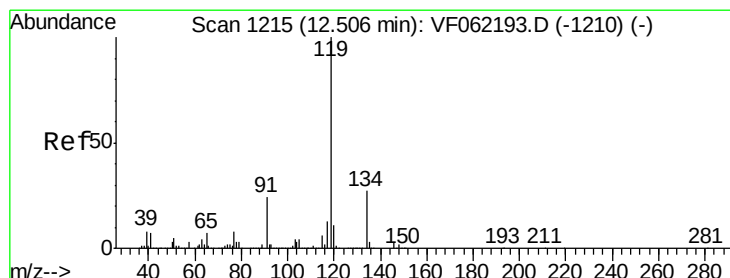
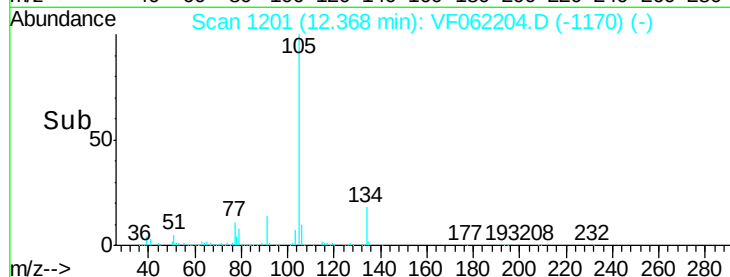
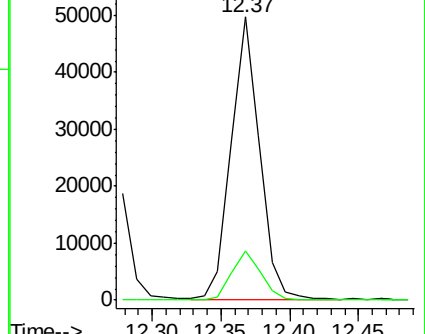
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.646 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

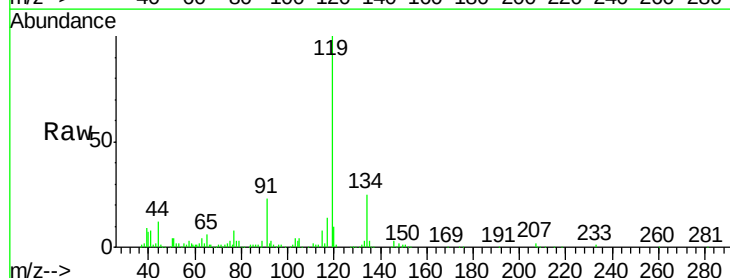
Tgt Ion:119 Resp: 66178

Ion Ratio Lower Upper

119 100

134 24.5 13.2 39.5

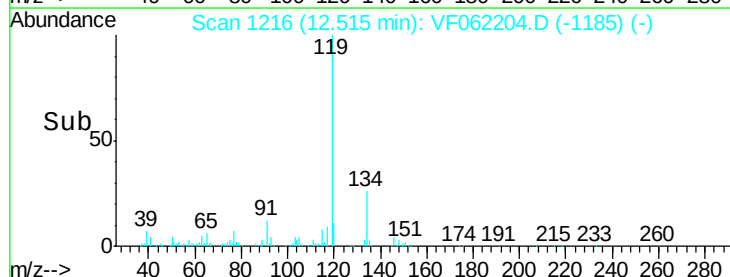
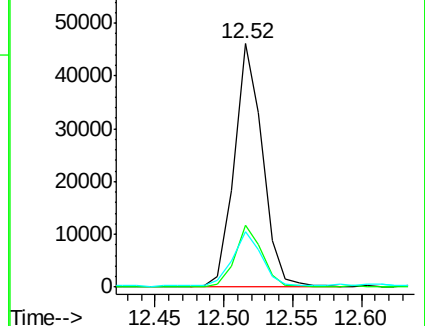
91 22.7 11.7 35.1

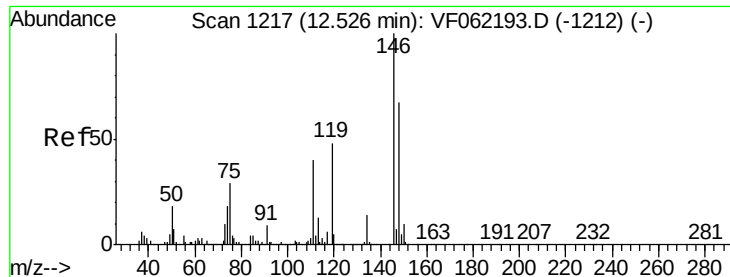


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 2.811 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

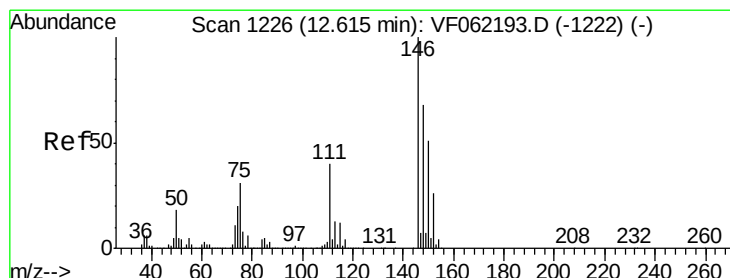
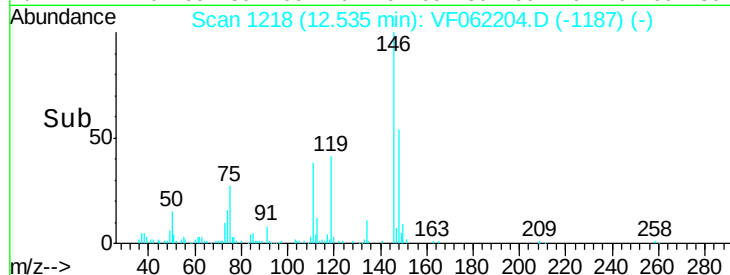
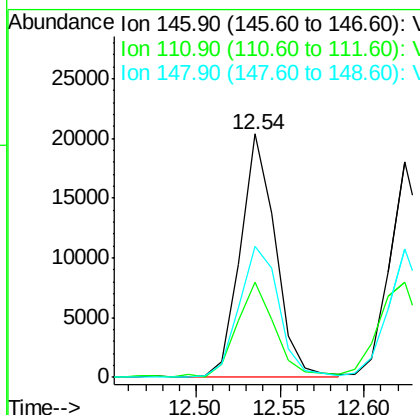
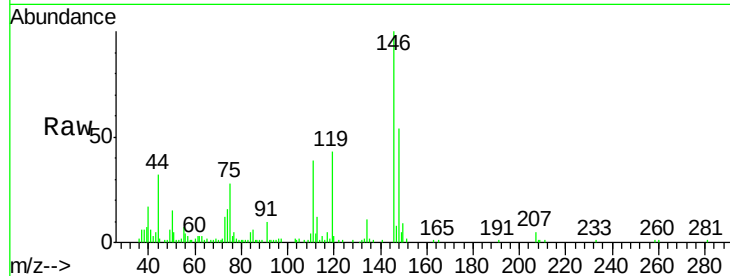
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	146	Resp:	29459
Ion Ratio	Lower	Upper	
146	100		
111	42.7	19.7	59.0
148	61.4	32.9	98.6

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#88

1,4-Dichlorobenzene

Concen: 2.689 ug/l

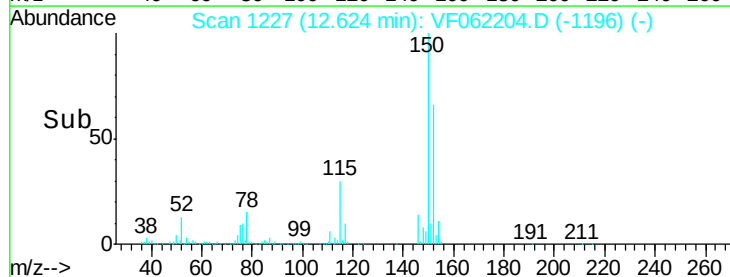
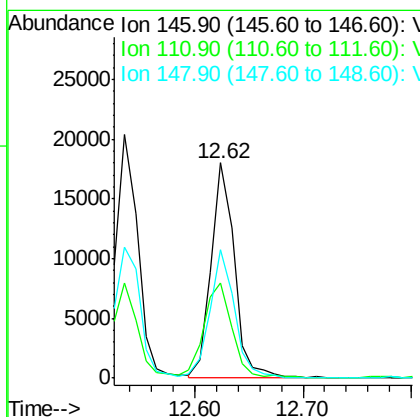
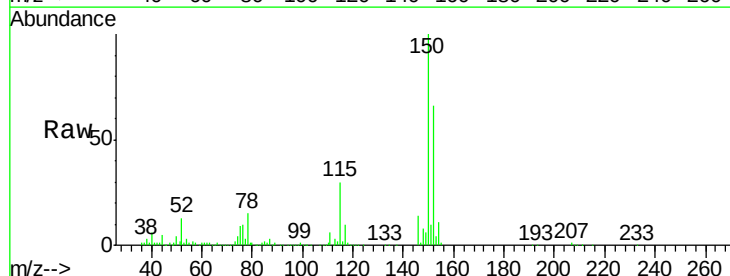
RT: 12.62 min Scan# 1227

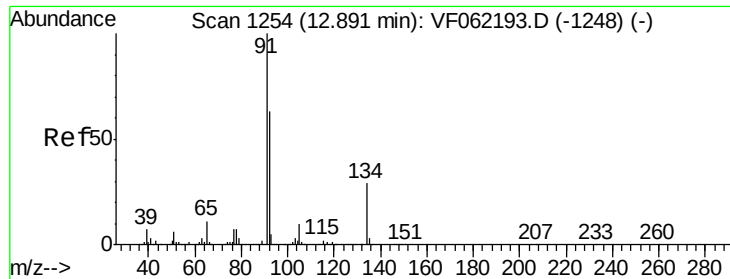
Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	146	Resp:	27184
Ion Ratio	Lower	Upper	
146	100		
111	53.5	20.0	60.0
148	63.5	33.6	100.8





#89

n-Butylbenzene

Concen: 2.730 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Instrument :

MSVOA_F

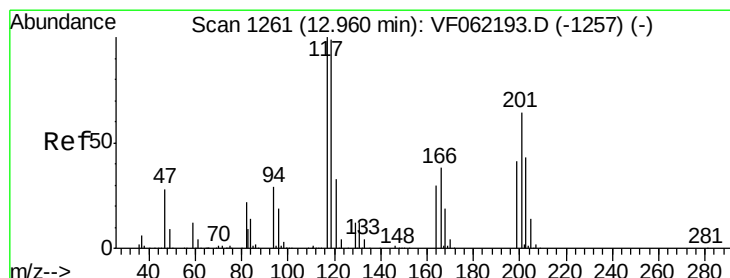
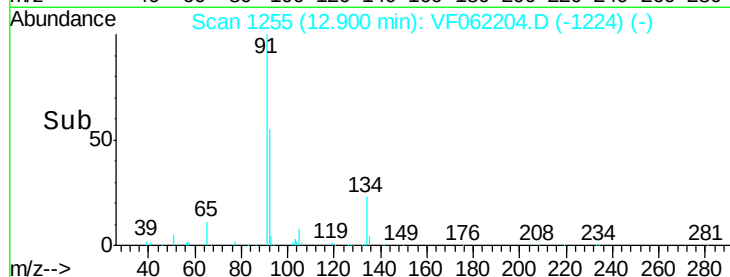
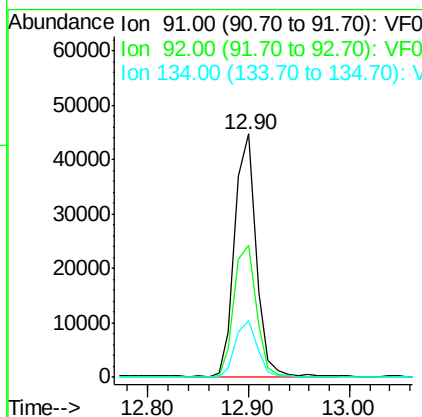
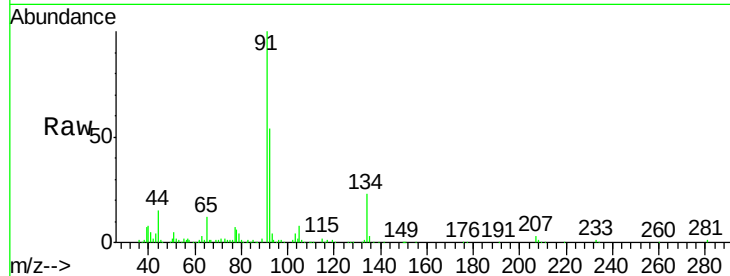
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	91	Resp:	65449
Ion	Ratio	Lower	Upper
91	100		
92	57.8	31.2	93.6
134	24.6	13.1	39.1

Manual Integrations
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#90

Hexachloroethane

Concen: 2.244 ug/l

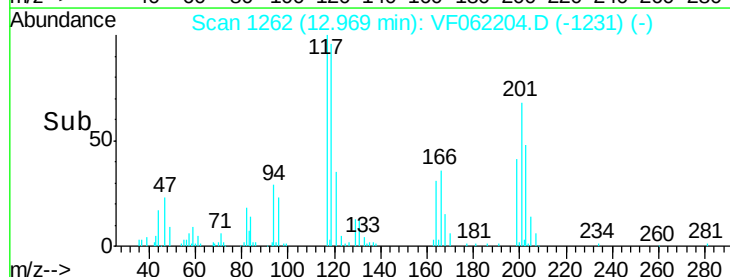
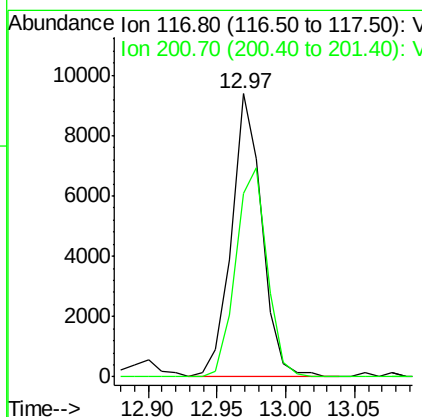
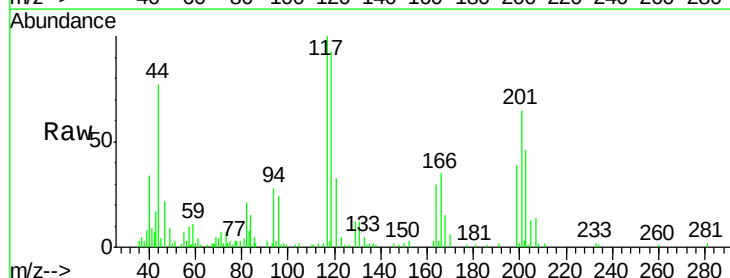
RT: 12.97 min Scan# 1262

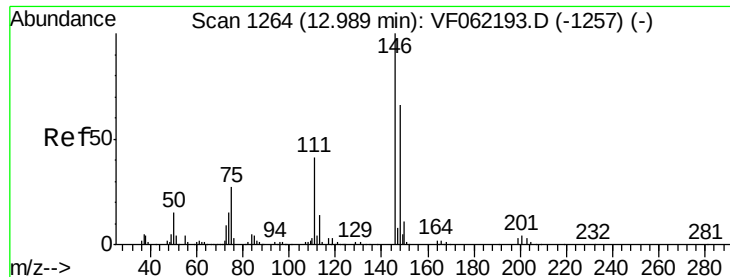
Delta R.T. 0.01 min

Lab File: VF062204.D

Acq: 18 Apr 2019 14:47

Tgt Ion:	117	Resp:	14414
Ion	Ratio	Lower	Upper
117	100		
201	76.4	37.7	113.1





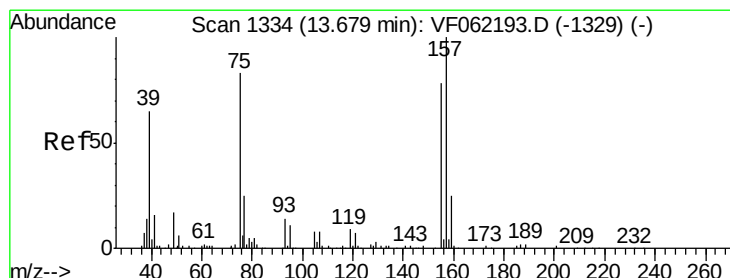
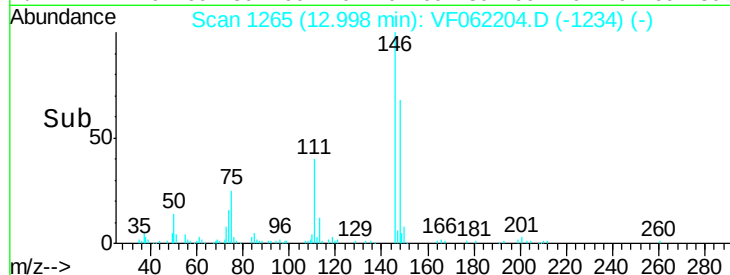
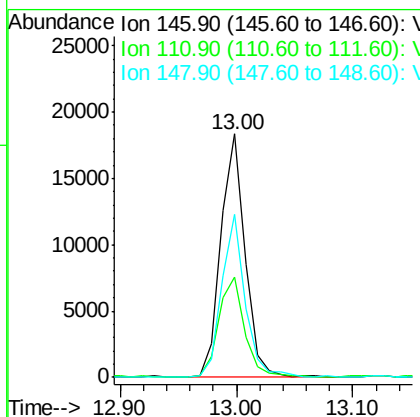
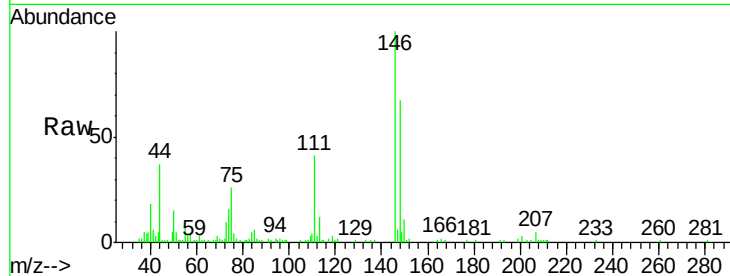
#91
 1,2-Dichlorobenzene
 Concen: 2.617 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VF062204.D
 Acq: 18 Apr 2019 14:47

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	20.8	62.5
148	65.1	33.0	99.0

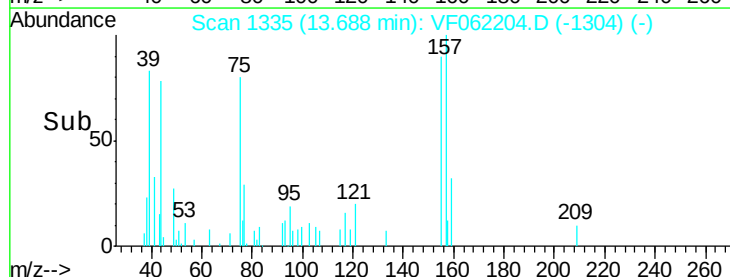
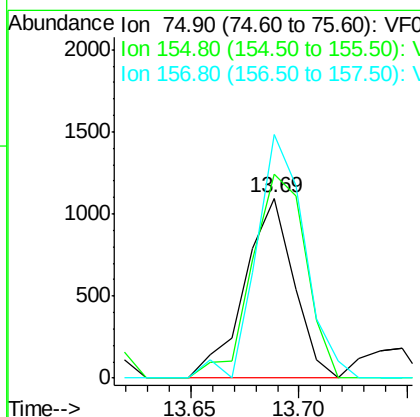
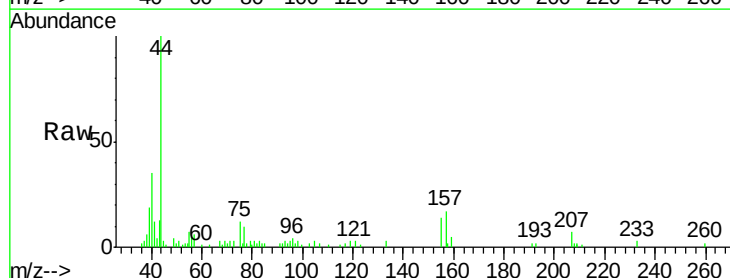
Manual Integrations
 APPROVED

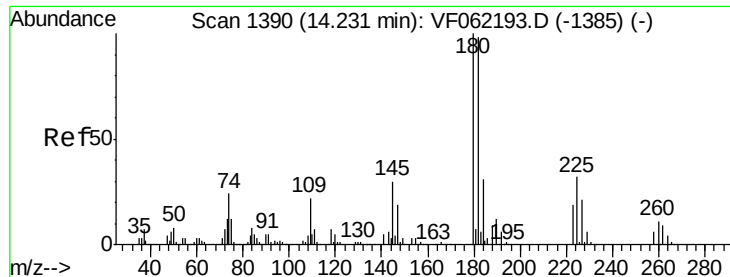
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.940 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VF062204.D
 Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	124.4	47.6	142.8
157	132.6	61.3	183.9





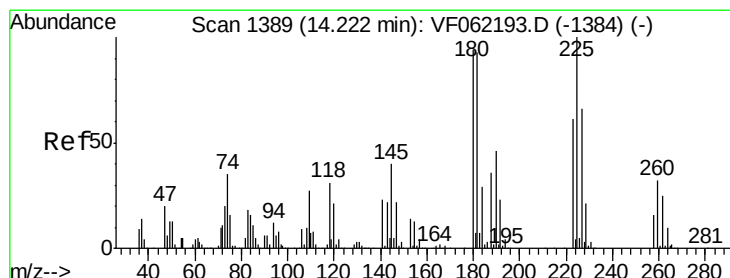
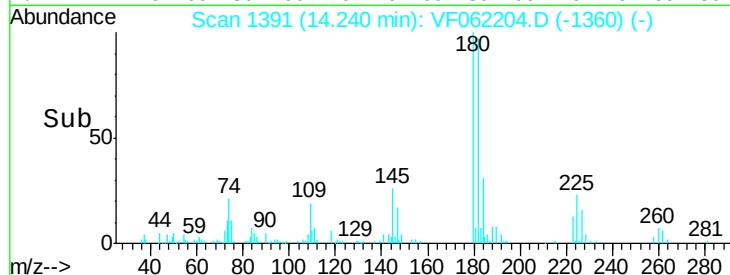
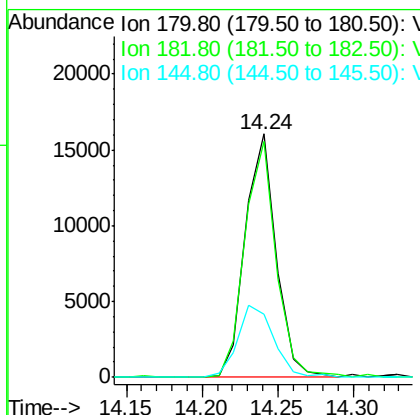
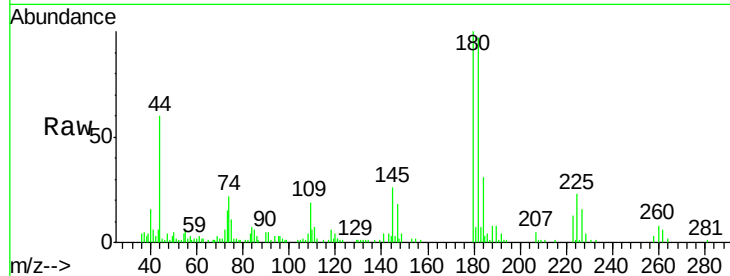
#93
 1,2,4-Trichlorobenzene
 Concen: 2.698 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062204.D
 Acq: 18 Apr 2019 14:47

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	22843		
182	98.9	49.3	147.9	
145	34.7	18.1	54.4	

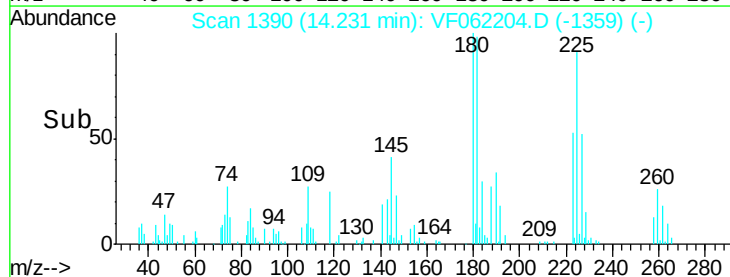
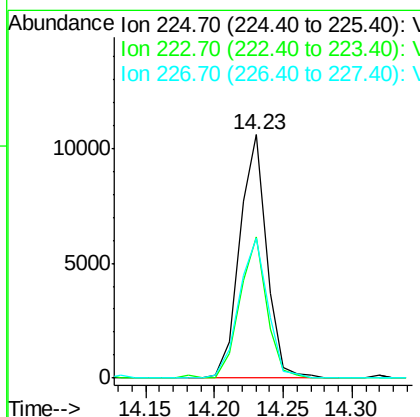
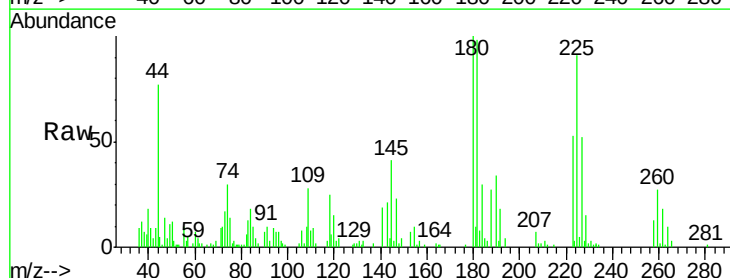
Manual Integrations
 APPROVED

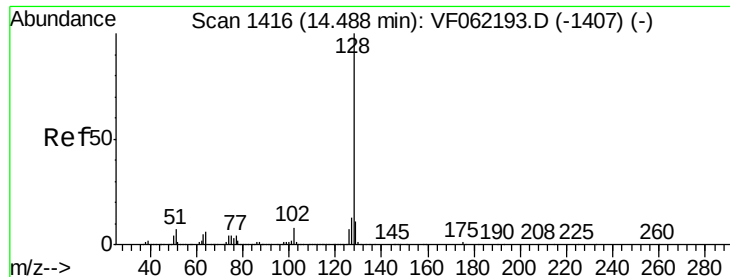
MMDadoda
 4/19/2019 10:52:18 AM



#94
 Hexachlorobutadiene
 Concen: 2.488 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062204.D
 Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	14447		
223	57.8	31.0	93.0	
227	61.4	32.4	97.0	





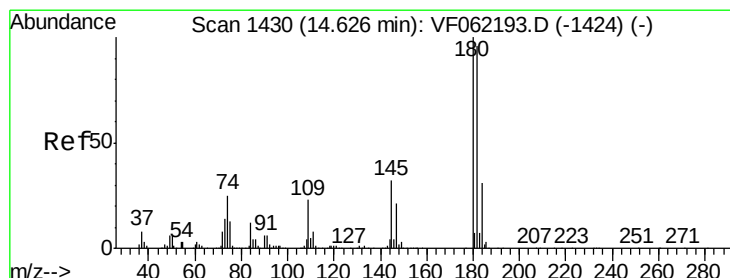
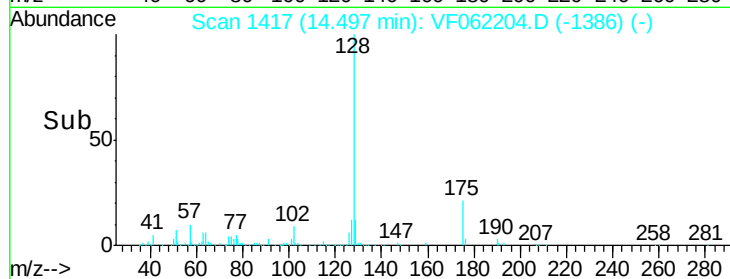
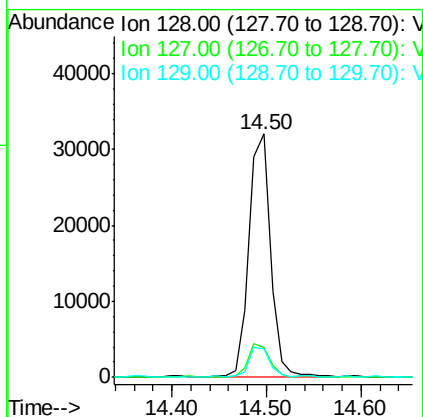
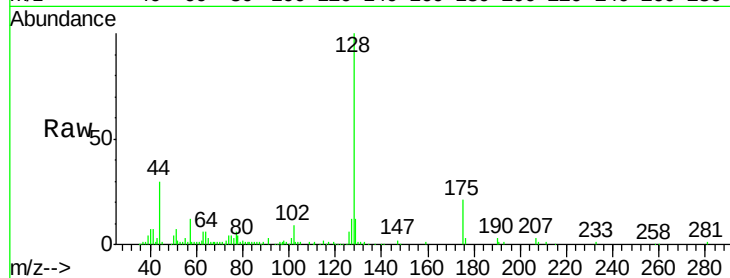
#95
Naphthalene
Concen: 3.465 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.4	15.6
129	12.1	9.2	13.8

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:18 AM



#96
1,2,3-Trichlorobenzene
Concen: 2.601 ug/l
RT: 14.63 min Scan# 1431
Delta R.T. 0.01 min
Lab File: VF062204.D
Acq: 18 Apr 2019 14:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.4	145.3
145	30.2	15.6	46.8

