

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\
 Data File : VF062205.D
 Acq On : 18 Apr 2019 15:16
 Operator : FY/SY
 Sample : K2241-02
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 10:52:23 AM

Quant Time: Apr 19 03:57:15 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	438157	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.77	114	638179	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	493183	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	286765	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	225228	56.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.12%	
35) Dibromofluoromethane	4.31	113	296319	53.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.16%	
50) Toluene-d8	7.71	98	746008	52.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.58%	
62) 4-Bromofluorobenzene	11.49	95	305586	56.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.42%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	73917	11.101	ug/l	95
3) Chloromethane	1.14	50	70957	10.310	ug/l	97
4) Vinyl Chloride	1.19	62	65395	11.060	ug/l	95
5) Bromomethane	1.39	94	40942	11.919	ug/l	99
6) Chloroethane	1.44	64	27194	11.001	ug/l	98
7) Trichlorofluoromethane	1.55	101	80958	10.778	ug/l	99
8) Diethyl Ether	1.70	74	17726	11.338	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	1.90	101	57080	11.123	ug/l	99
10) Methyl Iodide	1.98	142	97268	10.670	ug/l	91
11) Tert butyl alcohol	2.70	59	15077	53.987	ug/l #	82
12) 1,1-Dichloroethene	1.87	96	53682	10.998	ug/l	97
13) Acrolein	2.09	56	9320	55.075	ug/l	100
14) Allyl chloride	2.20	41	56835	10.146	ug/l	98
15) Acrylonitrile	3.08	53	37702	44.324	ug/l	97
16) Acetone	2.34	43	48218	50.210	ug/l	96
17) Carbon Disulfide	1.91	76	139822	10.309	ug/l	96
18) Methyl Acetate	2.46	43	28577	10.814	ug/l	93
19) Methyl tert-butyl Ether	2.54	73	96086	11.150	ug/l	99
20) Methylene Chloride	2.33	84	69115m	11.284	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	47110	9.760	ug/l	100
22) Diisopropyl ether	2.94	45	143529	10.017	ug/l	98
23) Vinyl Acetate	3.34	43	348770	51.089	ug/l	97
24) 1,1-Dichloroethane	3.00	63	84017	10.719	ug/l	98
25) 2-Butanone	4.52	43	101176	52.690	ug/l	94
26) 2,2-Dichloropropane	3.77	77	39722	10.038	ug/l	95
27) cis-1,2-Dichloroethene	3.64	96	64287	10.285	ug/l	99
28) Bromochloromethane	3.90	49	38903	10.361	ug/l #	99
29) Tetrahydrofuran	4.28	42	43011	49.486	ug/l	94
30) Chloroform	4.05	83	98396	10.215	ug/l	99
31) Cyclohexane	3.87	56	92136	9.809	ug/l	96
32) 1,1,1-Trichloroethane	4.29	97	62074	8.803	ug/l #	88
36) 1,1-Dichloropropene	4.47	75	79312	10.366	ug/l	97
37) Ethyl Acetate	4.30	43	36214	10.030	ug/l #	98
38) Carbon Tetrachloride	4.18	117	64617	9.541	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	93570	10.214	ug/l	98
40) Benzene	4.82	78	205825	10.256	ug/l	96
41) Methacrylonitrile	4.93	41	22063	10.594	ug/l	96
42) 1,2-Dichloroethane	5.12	62	53773	10.135	ug/l	95
43) Isopropyl Acetate	7.11	43	40584	10.687	ug/l #	96
44) Trichloroethene	5.69	130	58478	10.783	ug/l	96
45) 1,2-Dichloropropane	6.40	63	47017	10.636	ug/l	95
46) Dibromomethane	6.26	93	31765	10.800	ug/l	100
47) Bromodichloromethane	6.55	83	71112	10.714	ug/l	97
48) Methyl methacrylate	6.88	41	24528	9.828	ug/l	99
49) 1,4-Dioxane	6.87	88	5645	197.235	ug/l	92
51) 4-Methyl-2-Pentanone	8.41	43	154171	54.584	ug/l	99
52) Toluene	7.77	92	113402	10.720	ug/l	98
53) t-1,3-Dichloropropene	8.43	75	53198	10.671	ug/l	90
54) cis-1,3-Dichloropropene	7.46	75	72905	10.812	ug/l	97
55) 1,1,2-Trichloroethane	8.63	97	31629	10.672	ug/l	93
56) Ethyl methacrylate	8.75	69	37024	10.988	ug/l	94
57) 1,3-Dichloropropane	9.00	76	51387	10.738	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	54355	55.562	ug/l	99
59) 2-Hexanone	9.62	43	102487	55.070	ug/l	99
60) Dibromochloromethane	8.86	129	47706	10.824	ug/l	99
61) 1,2-Dibromoethane	9.14	107	36128	10.820	ug/l	94
64) Tetrachloroethene	8.31	164	49947	11.219	ug/l	94
65) Chlorobenzene	9.93	112	116503	11.079	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.06	131	52739	10.709	ug/l	97
67) Ethyl Benzene	10.03	91	203652	10.650	ug/l	100
68) m/p-Xylenes	10.26	106	149631	21.256	ug/l	94
69) o-Xylene	10.82	106	84921	10.866	ug/l	97
70) Styrene	10.89	104	130416	11.824	ug/l	98
71) Bromoform	10.88	173	30129	11.588	ug/l #	97
73) Isopropylbenzene	11.22	105	250676	10.176	ug/l	98
74) N-amyl acetate	11.45	43	67305	10.338	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.77	83	42542	10.042	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	28772	9.872	ug/l #	64
77) Bromobenzene	11.58	156	55983	10.609	ug/l	97
78) n-propylbenzene	11.67	91	282513	10.872	ug/l	99
79) 2-Chlorotoluene	11.80	91	169711	10.766	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	217805	10.616	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.93	75	16576m	11.151	ug/l	
82) 4-Chlorotoluene	11.97	91	162261	10.651	ug/l	99
83) tert-Butylbenzene	12.20	119	223384	10.529	ug/l	99
84) 1,2,4-Trimethylbenzene	12.27	105	202575	10.203	ug/l	100
85) sec-Butylbenzene	12.37	105	292331	10.613	ug/l	98
86) p-Isopropyltoluene	12.52	119	252821	10.820	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	108059	11.035	ug/l	98
88) 1,4-Dichlorobenzene	12.62	146	101860	10.784	ug/l	97
89) n-Butylbenzene	12.90	91	254704	11.370	ug/l	95
90) Hexachloroethane	12.97	117	62139	10.356	ug/l	99
91) 1,2-Dichlorobenzene	13.00	146	105292	11.136	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	8438	10.138	ug/l	98

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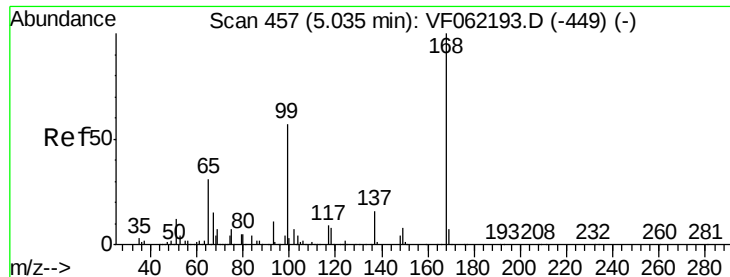
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	89208	11.276	ug/l	97
94) Hexachlorobutadiene	14.23	225	60045	11.069	ug/l	98
95) Naphthalene	14.50	128	139849	10.110	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	83258	10.962	ug/l	97

(#) = 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: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:168 Resp: 438157

Ion Ratio Lower Upper

168 100

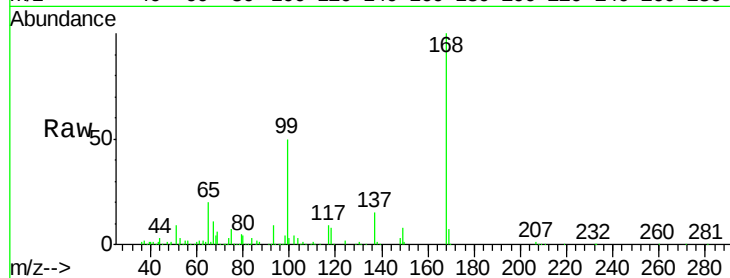
99 50.2 45.5 68.3

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.05

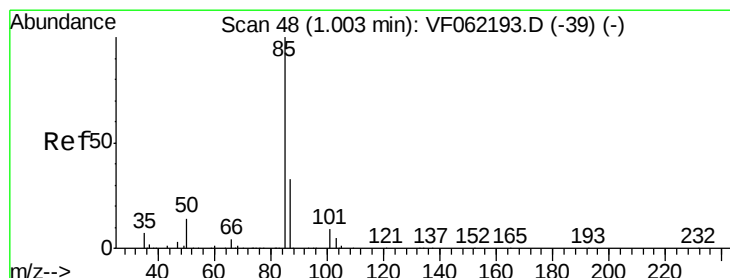
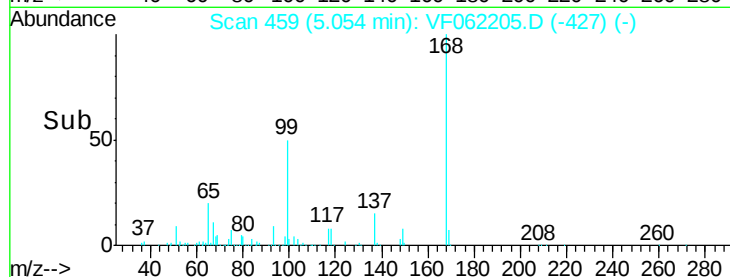
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 11.101 ug/l

RT: 1.00 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062205.D

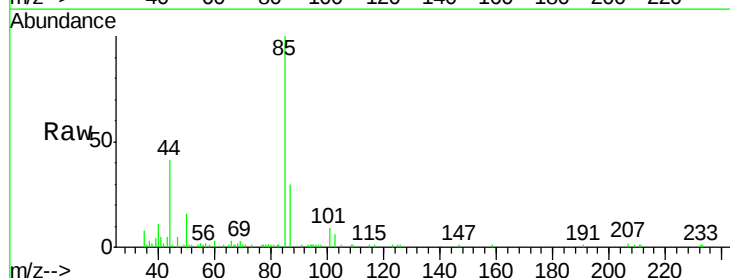
Acq: 18 Apr 2019 15:16

Tgt Ion: 85 Resp: 73917

Ion Ratio Lower Upper

85 100

87 29.8 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

20000

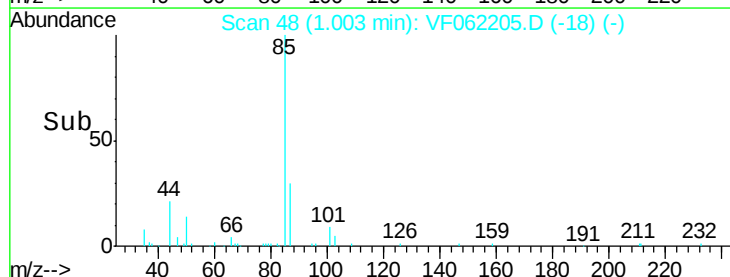
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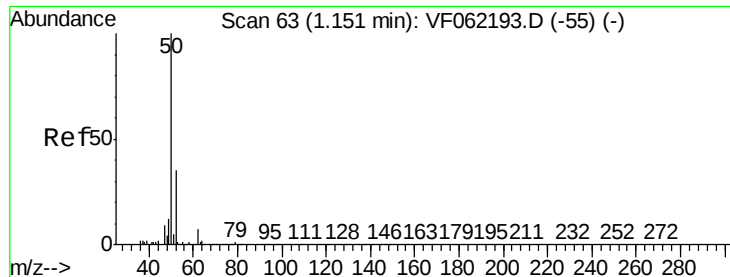
10000

5000

0

Time-->





#3

Chloromethane

Concen: 10.310 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 50 Resp: 70957

Ion Ratio Lower Upper

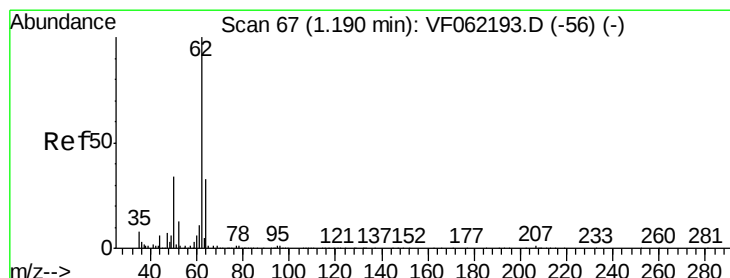
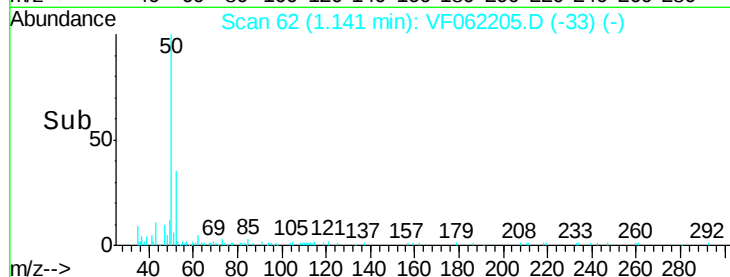
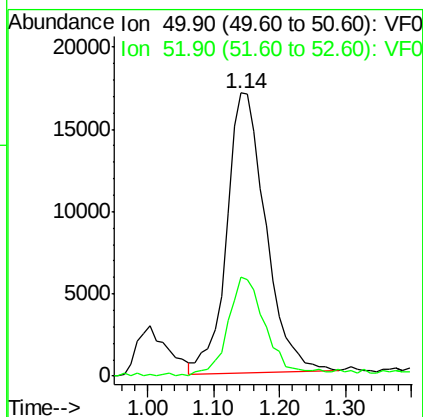
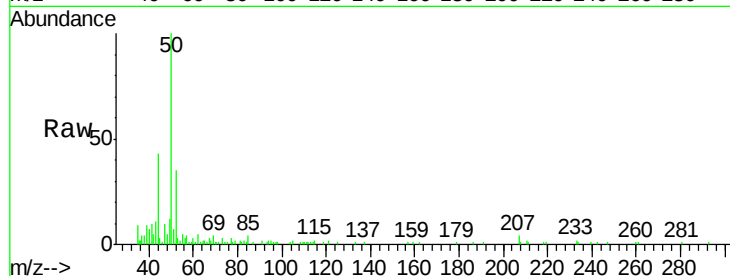
50 100

52 35.6 27.0 40.4

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#4

Vinyl Chloride

Concen: 11.060 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062205.D

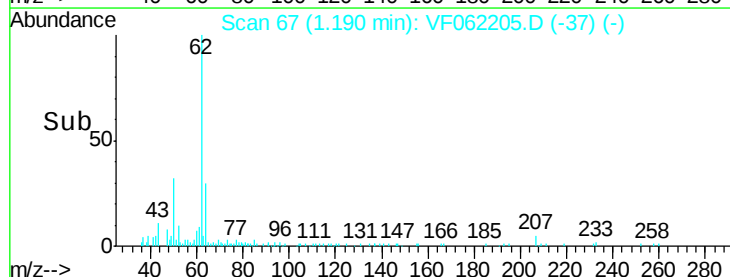
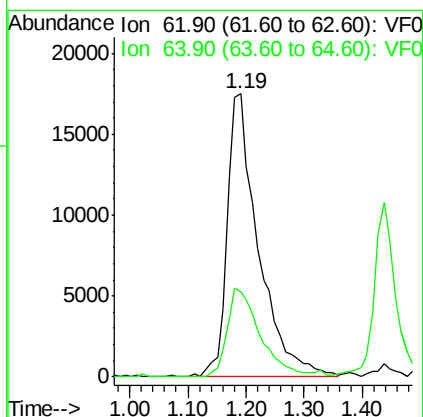
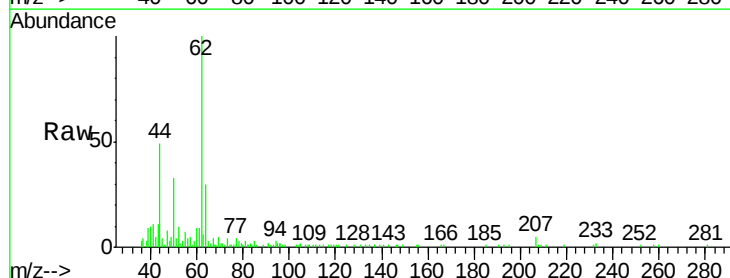
Acq: 18 Apr 2019 15:16

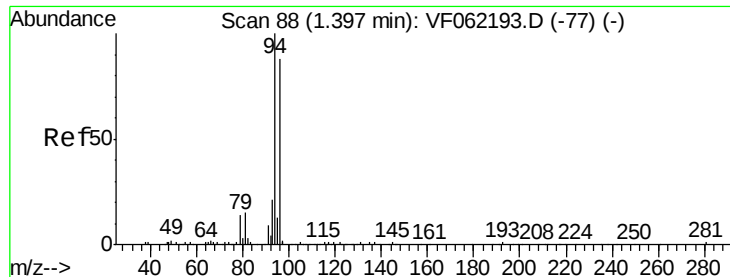
Tgt Ion: 62 Resp: 65395

Ion Ratio Lower Upper

62 100

64 30.1 26.2 39.4





#5

Bromomethane

Concen: 11.919 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 94 Resp: 40942

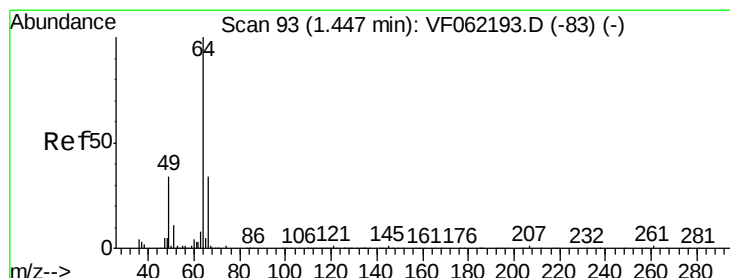
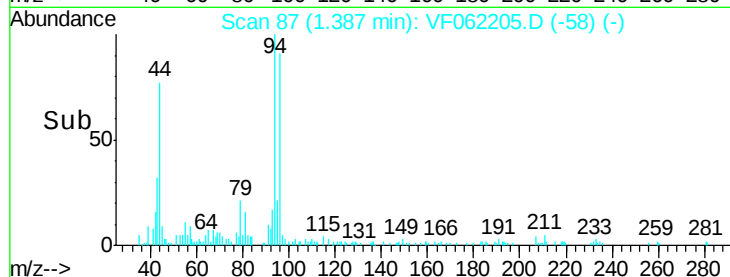
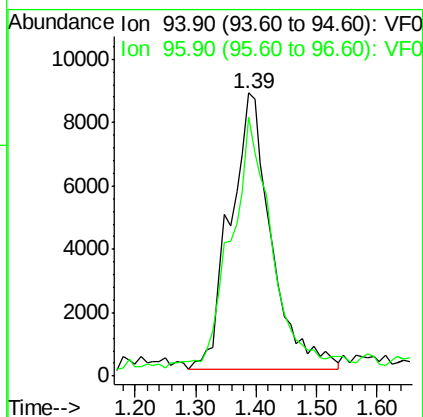
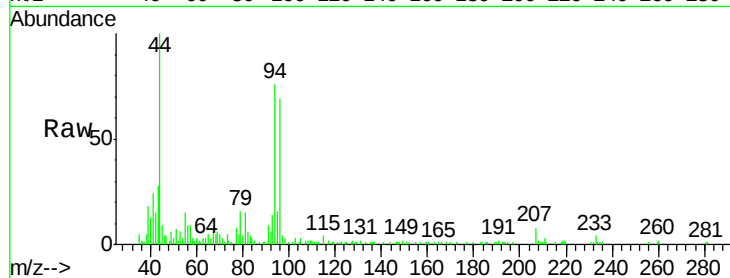
Ion Ratio Lower Upper

94 100

96 88.7 70.2 105.4

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4/19/2019 10:52:23 AM



#6

Chloroethane

Concen: 11.001 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062205.D

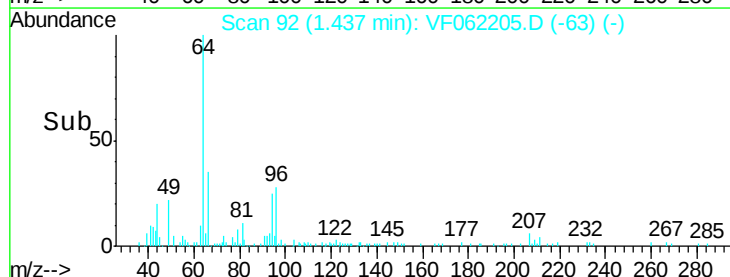
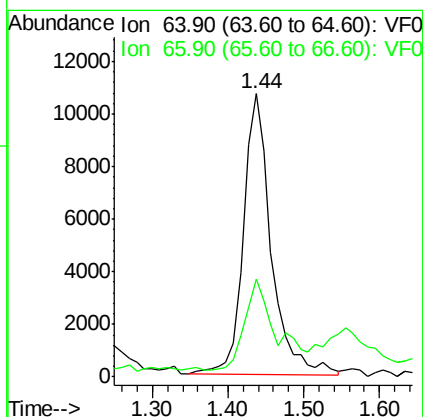
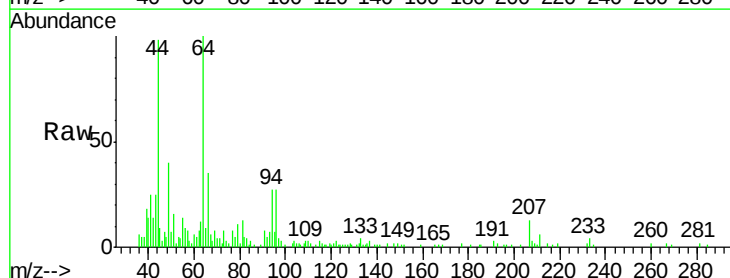
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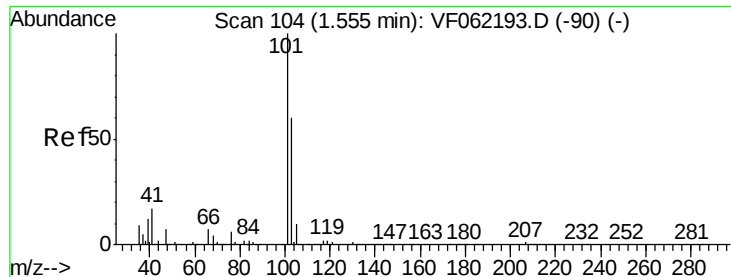
Tgt Ion: 64 Resp: 27194

Ion Ratio Lower Upper

64 100

66 32.4 27.0 40.4





#7

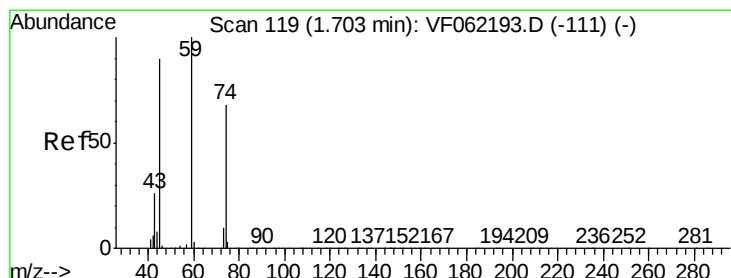
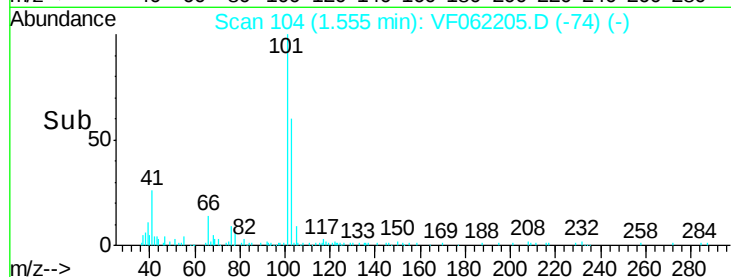
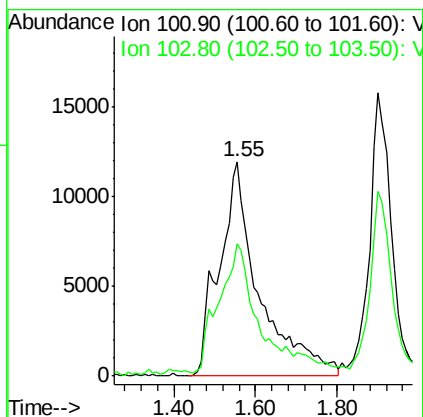
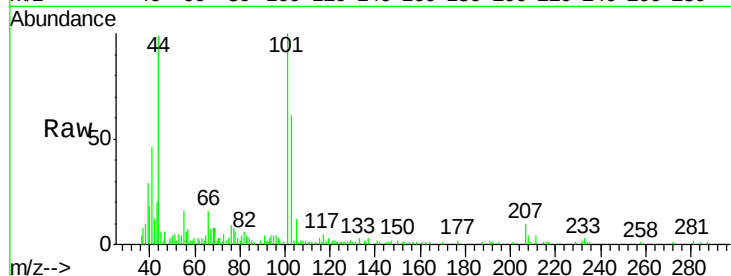
Trichlorofluoromethane
Concen: 10.778 ug/l
RT: 1.55 min Scan# 104
Delta R.T. 0.00 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

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Tot Ion	Ratio	Lower	Upper
101	100		
103	59.7	48.2	72.4

Manual Integrations
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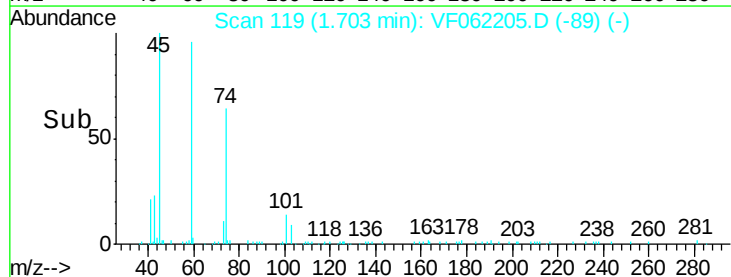
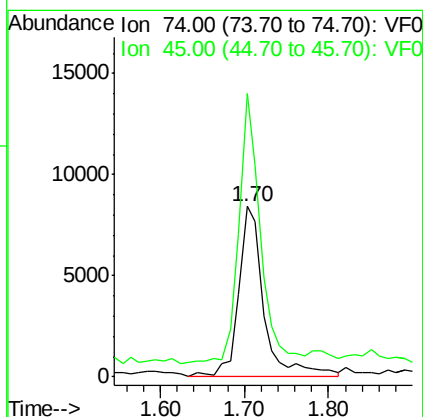
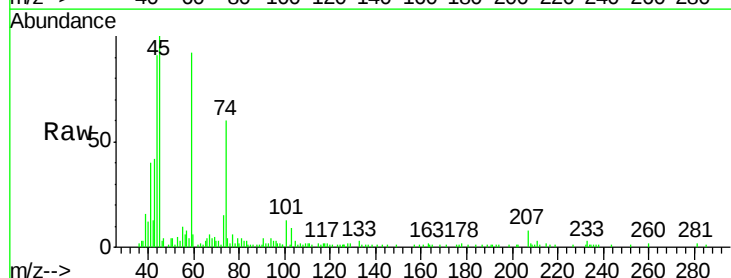
MMDadoda
4/19/2019 10:52:23 AM

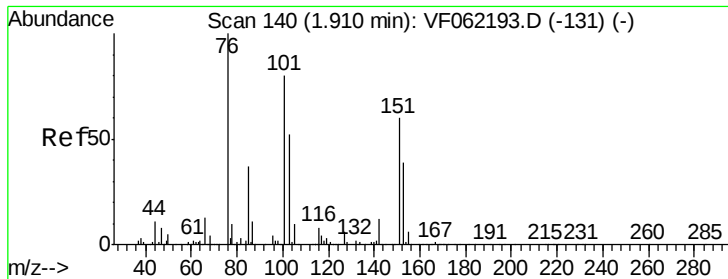


#8

Diethyl Ether
Concen: 11.338 ug/l
RT: 1.70 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	131.4	70.0	210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.123 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

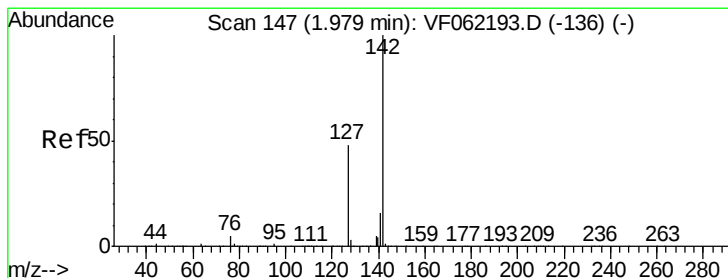
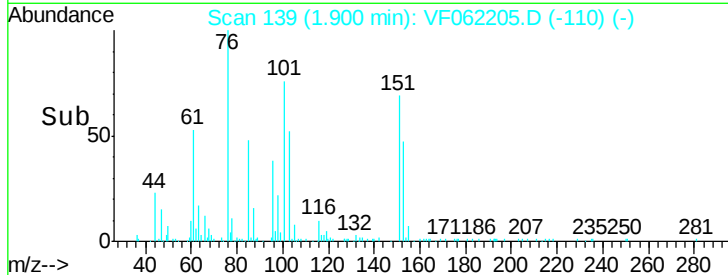
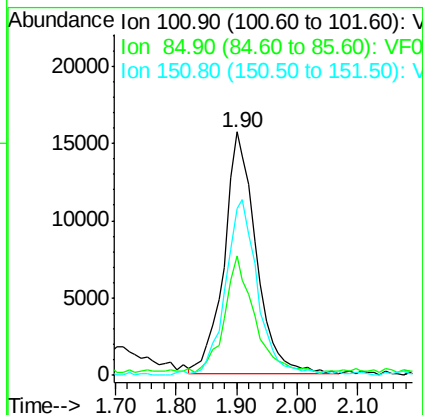
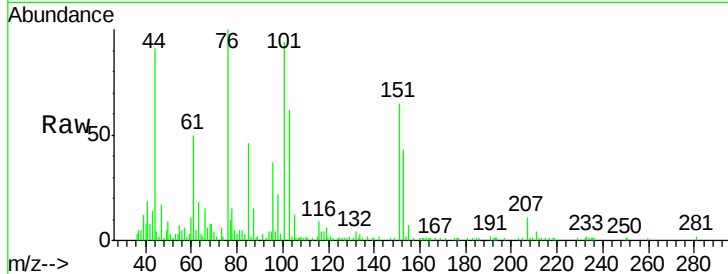
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	101	Resp:	57080
Ion Ratio	Lower	Upper	
101	100		
85	44.0	35.3	52.9
151	73.7	57.5	86.3

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#10

Methyl Iodide

Concen: 10.670 ug/l

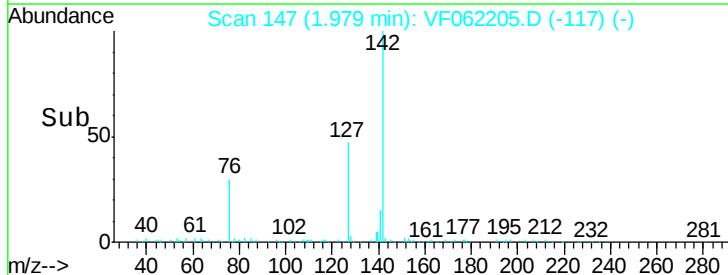
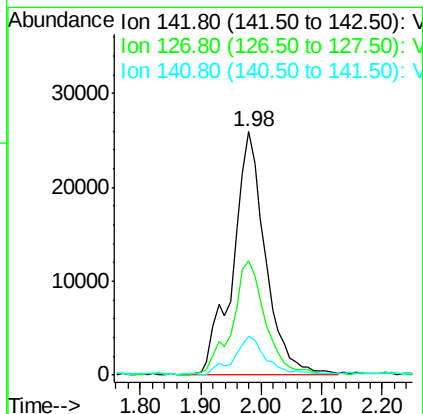
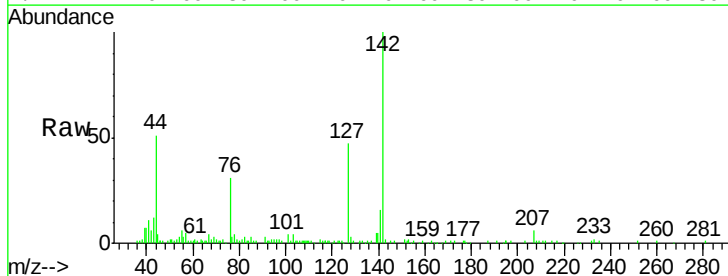
RT: 1.98 min Scan# 147

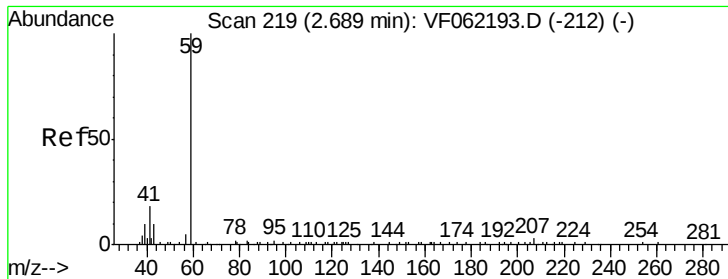
Delta R.T. 0.00 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	142	Resp:	97268
Ion Ratio	Lower	Upper	
142	100		
127	48.6	33.0	49.4
141	16.4	12.7	19.1





#11

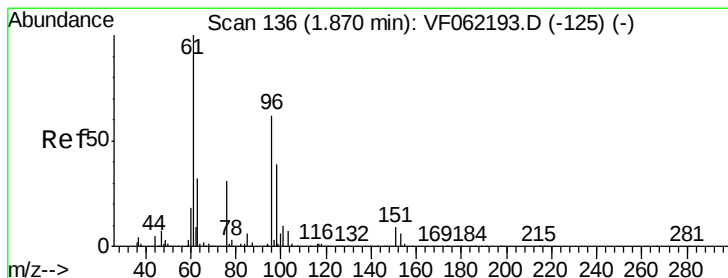
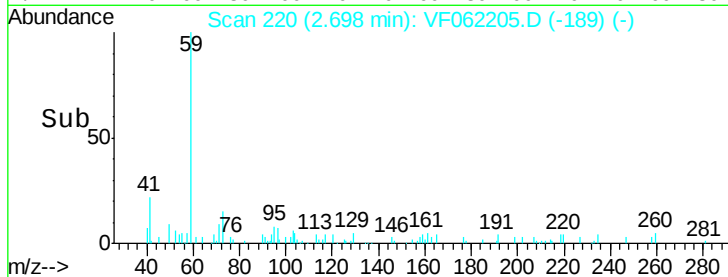
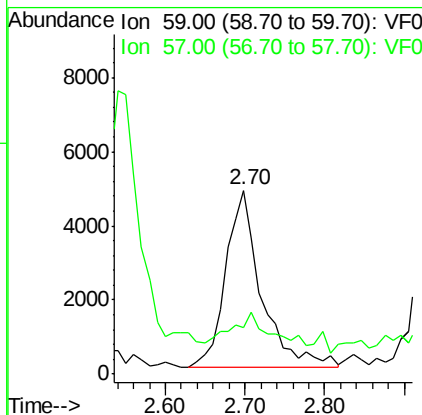
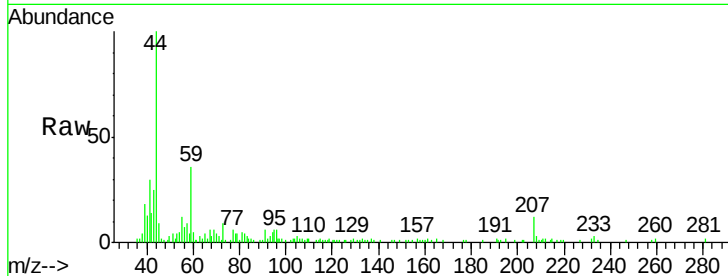
Tert butyl alcohol
Concen: 53.987 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	100		15077		
57	18.5		9.3	13.9#	

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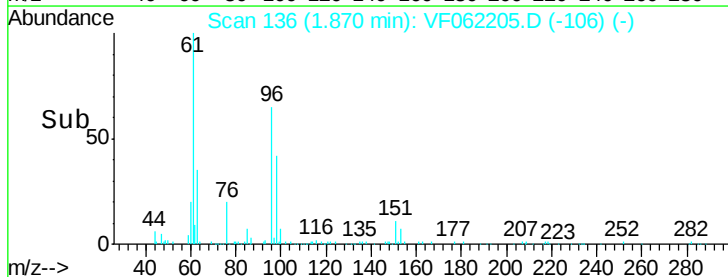
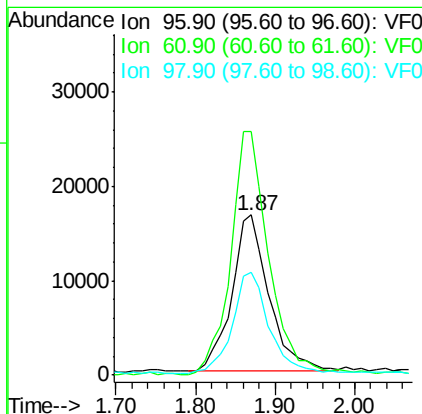
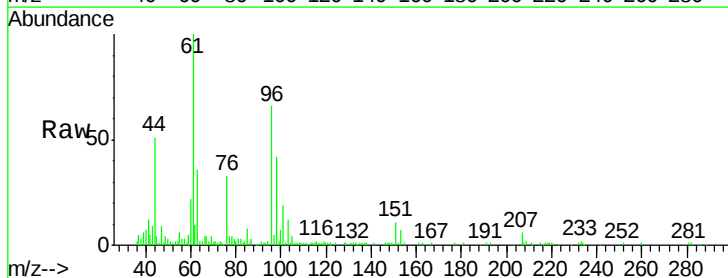
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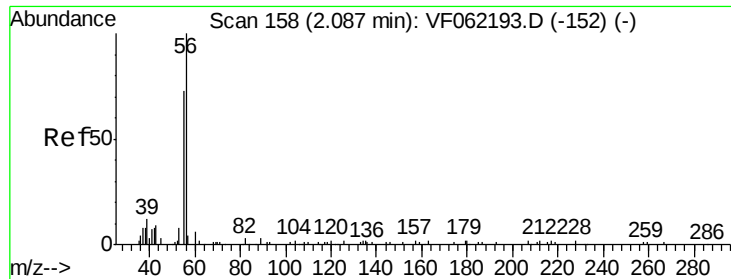


#12

1,1-Dichloroethene
Concen: 10.998 ug/l
RT: 1.87 min Scan# 136
Delta R.T. 0.00 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	100		53682		
61	156.5		129.1	193.7	
98	64.4		50.0	75.0	





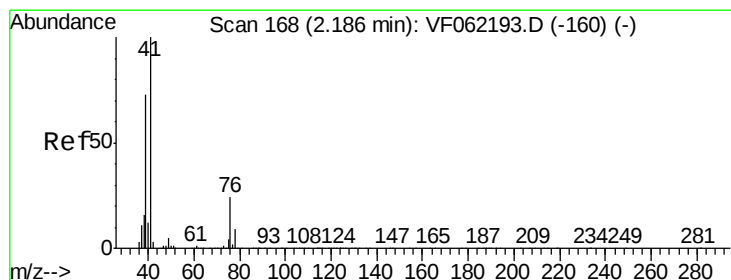
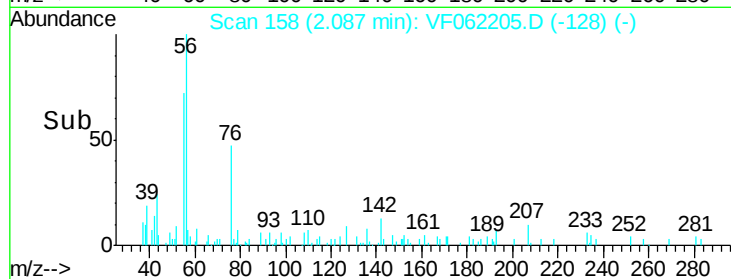
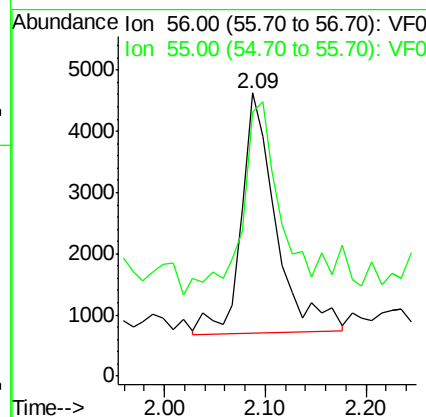
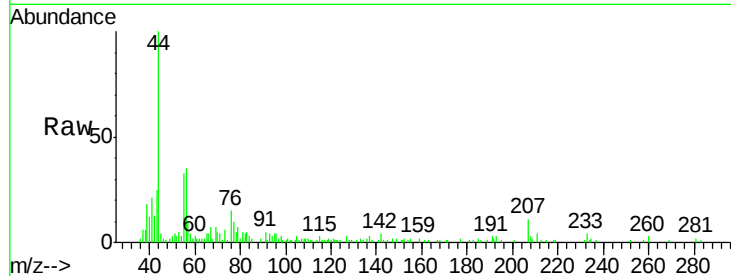
#13
Acrolein
Concen: 55.075 ug/l
RT: 2.09 min Scan# 158
Delta R.T. 0.00 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ion	Ratio	Lower	Upper
56	56	100		
55	55	71.4	57.4	86.0

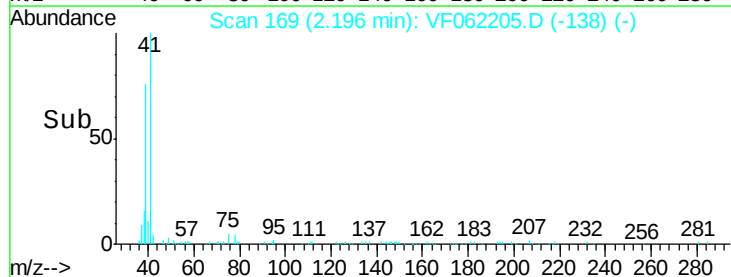
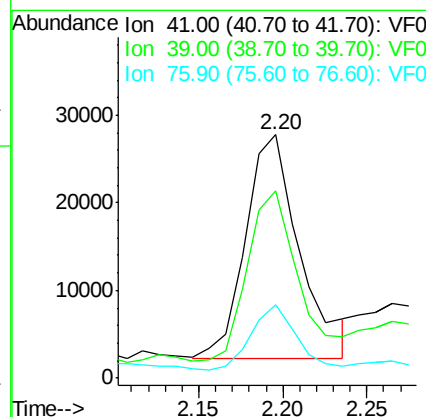
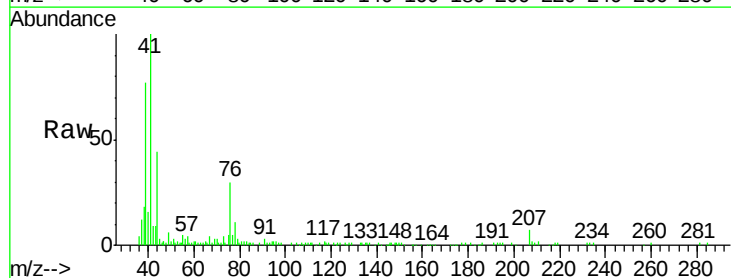
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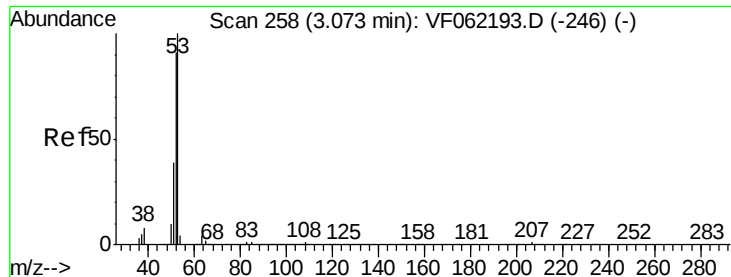
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4/19/2019 10:52:23 AM



#14
Allyl chloride
Concen: 10.146 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	72.6	60.0	90.0
76	76	25.3	20.6	30.8





#15

Acrylonitrile

Concen: 44.324 ug/l

RT: 3.08 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

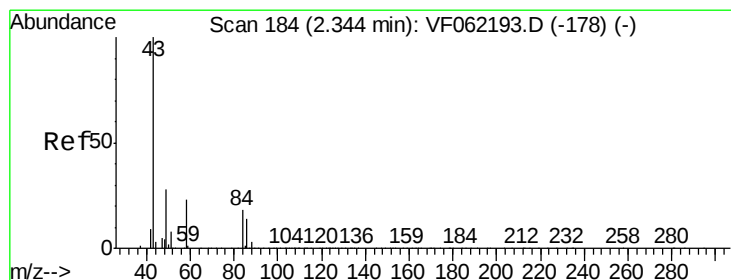
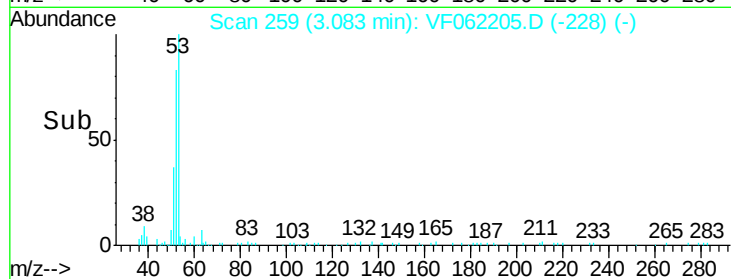
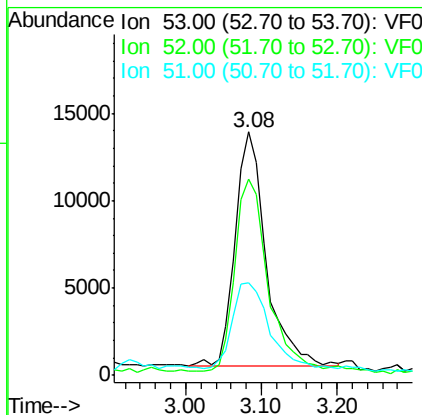
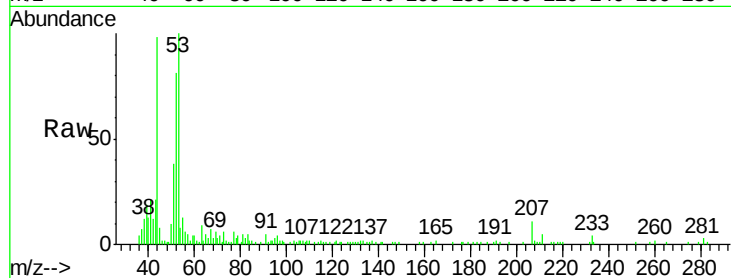
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	53	Resp:	37702
Ion Ratio	Lower	Upper	
53	100		
52	87.9	69.5	104.3
51	45.1	31.8	47.8

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#16

Acetone

Concen: 50.210 ug/l

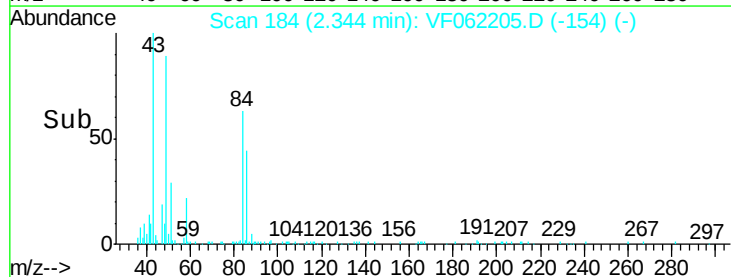
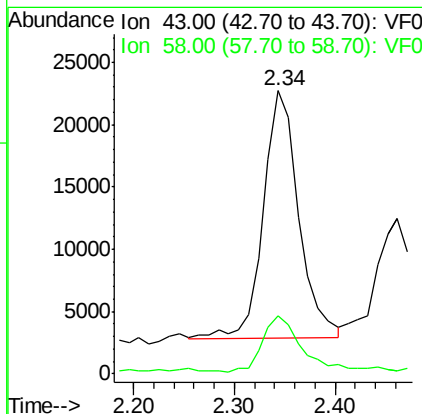
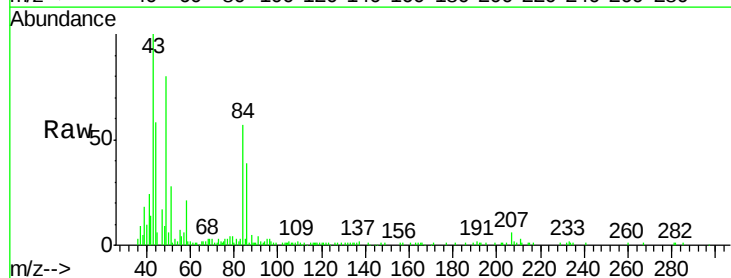
RT: 2.34 min Scan# 184

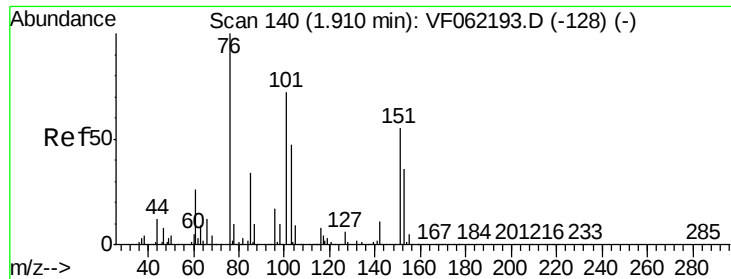
Delta R.T. 0.00 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	43	Resp:	48218
Ion Ratio	Lower	Upper	
43	100		
58	21.4	18.8	28.2





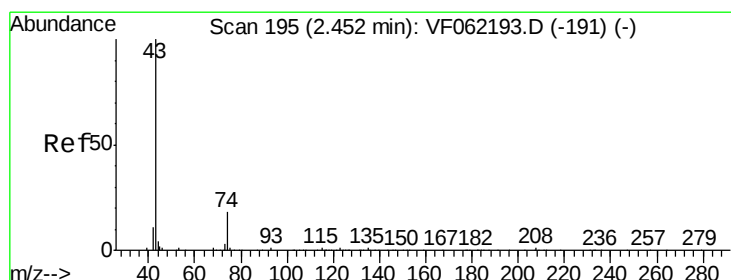
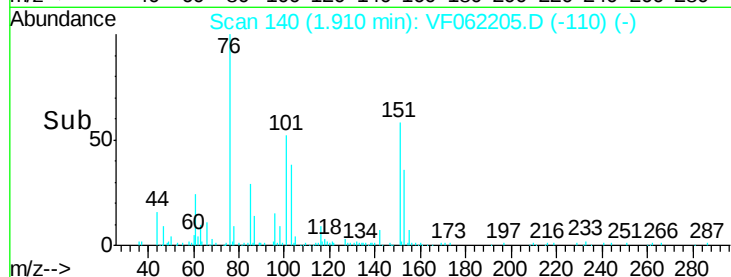
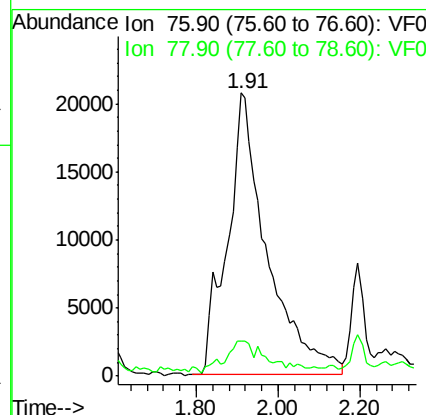
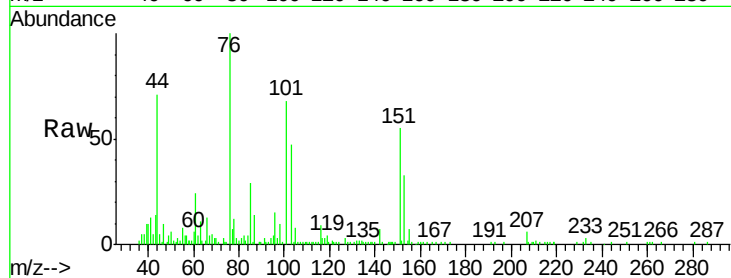
#17
Carbon Disulfide
Concen: 10.309 ug/l
RT: 1.91 min Scan# 140
Delta R.T. 0.00 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion: 76 Resp: 139822
Ion Ratio Lower Upper
76 100
78 9.5 8.7 13.1

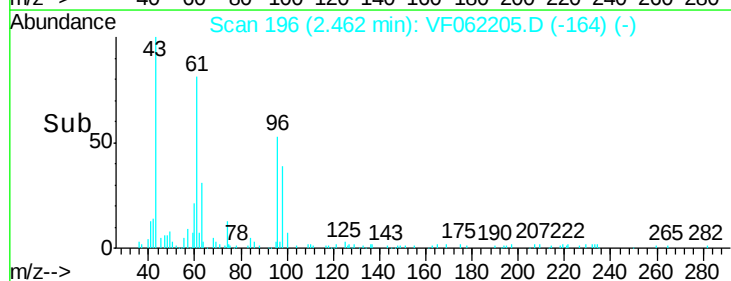
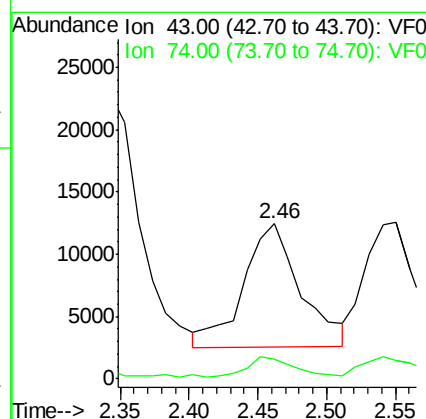
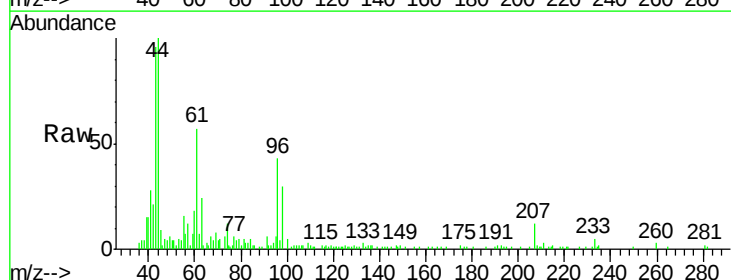
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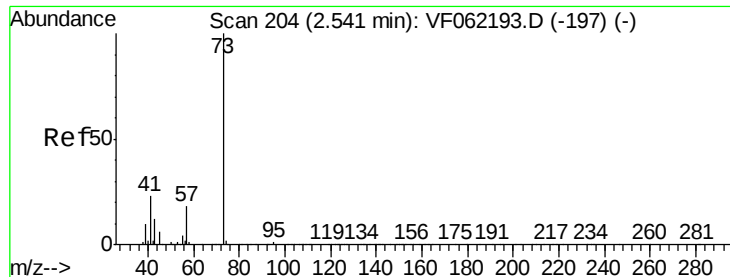
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#18
Methyl Acetate
Concen: 10.814 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion: 43 Resp: 28577
Ion Ratio Lower Upper
43 100
74 14.9 14.5 21.7





#19

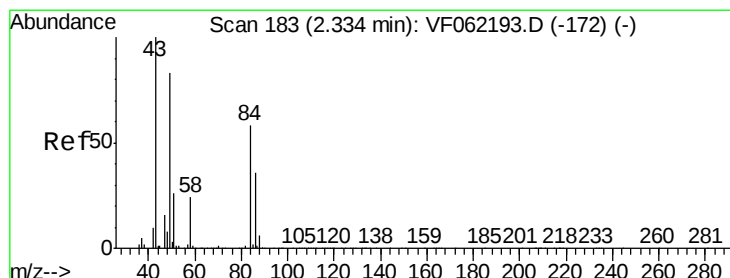
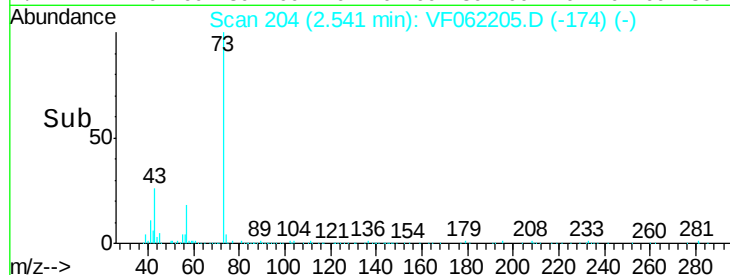
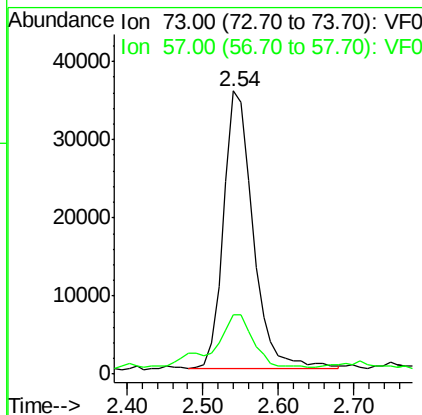
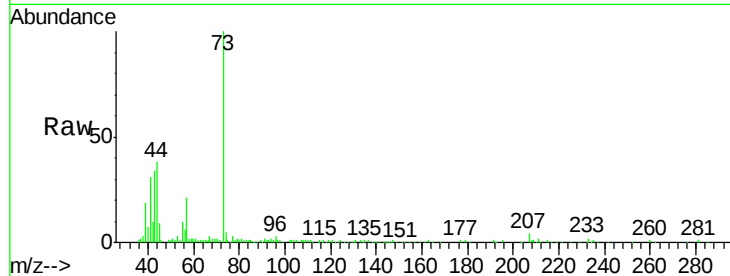
Methyl tert-butyl Ether
Concen: 11.150 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.00 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ion	Ratio	Lower	Upper
73	73	100		
57	57	18.2	15.1	22.7

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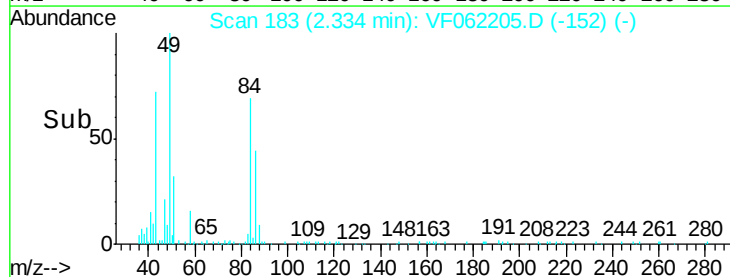
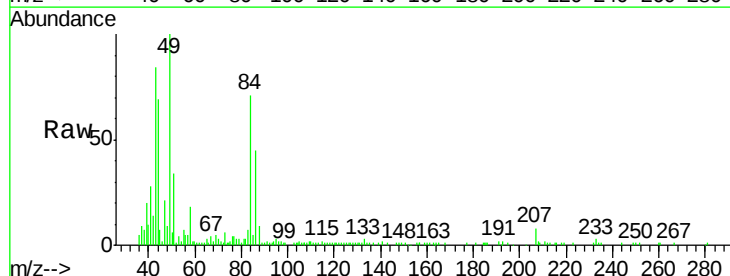
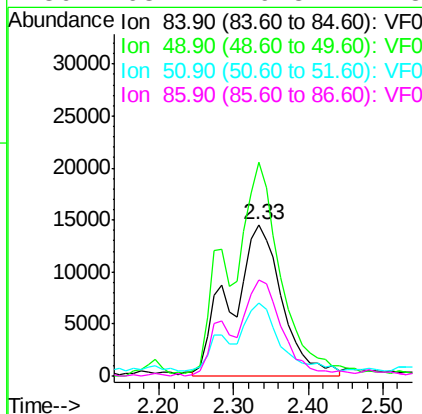
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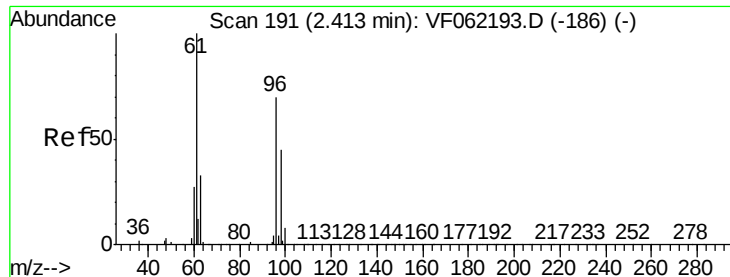


#20

Methylene Chloride
Concen: 11.284 ug/l m
RT: 2.33 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ion	Ratio	Lower	Upper
84	84	100		
49	49	141.4	114.0	171.0
51	51	48.0	37.0	55.4
86	86	63.2	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 9.760 ug/l

RT: 2.42 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

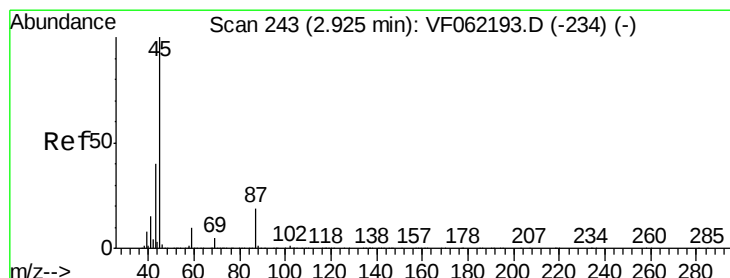
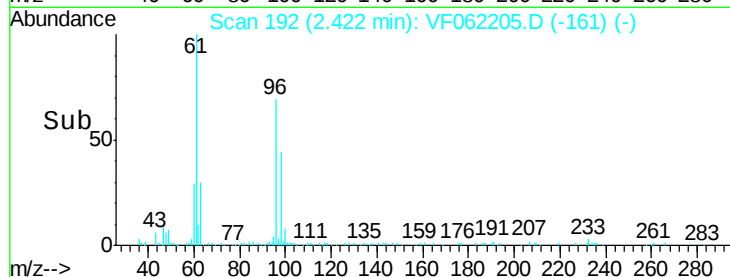
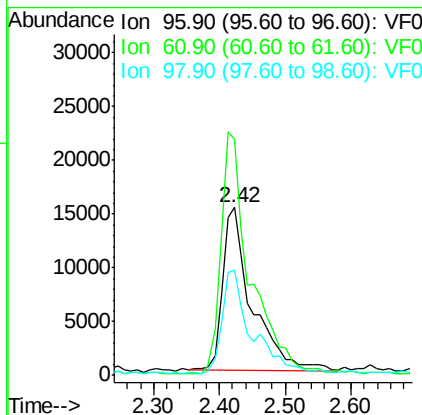
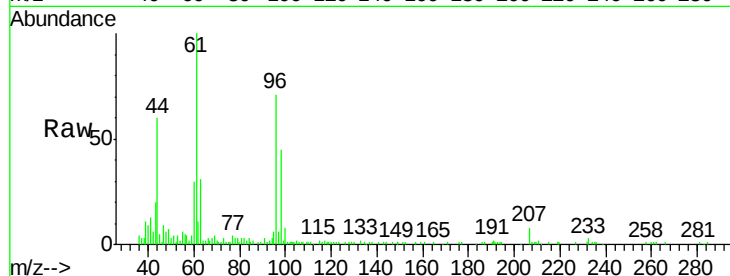
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	96	Resp:	47110
Ion	Ratio	Lower	Upper
96	100		
61	143.4	114.6	172.0
98	63.2	51.2	76.8

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#22

Diisopropyl ether

Concen: 10.017 ug/l

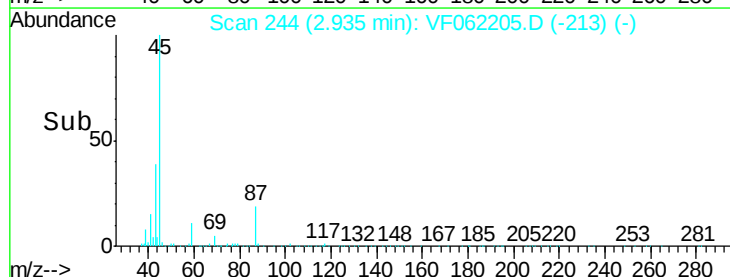
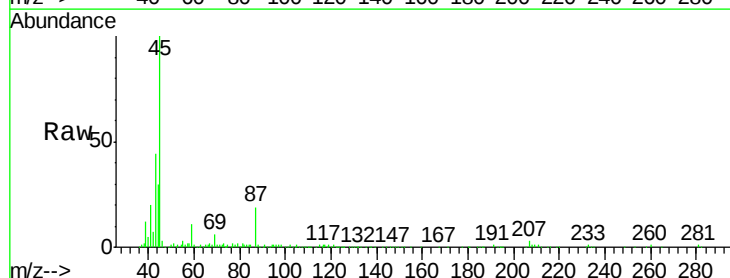
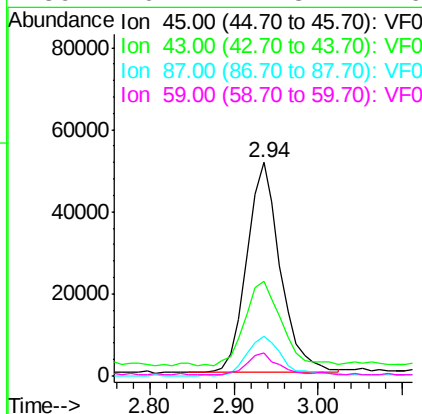
RT: 2.94 min Scan# 244

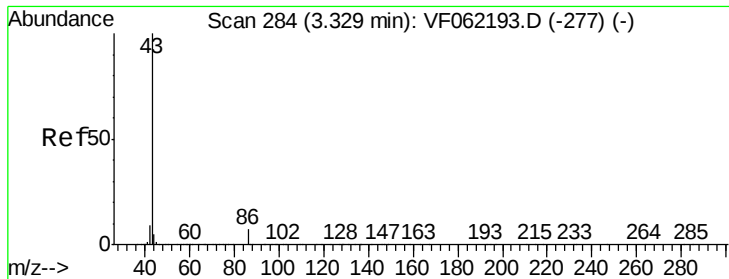
Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	45	Resp:	143529
Ion	Ratio	Lower	Upper
45	100		
43	39.3	32.8	49.2
87	18.9	15.2	22.8
59	10.4	7.8	11.6





#23

Vinyl Acetate

Concen: 51.089 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 348770

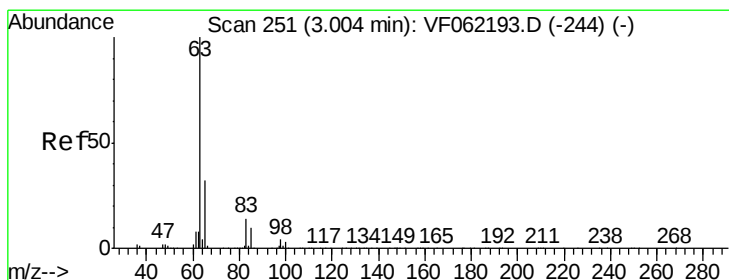
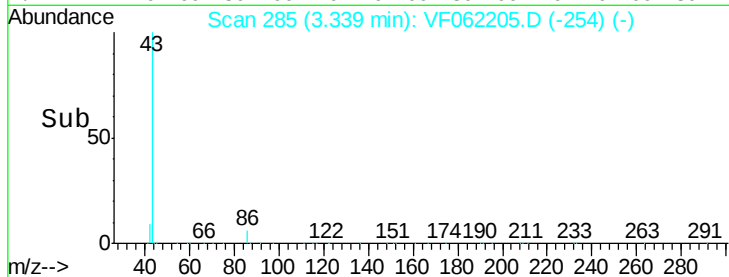
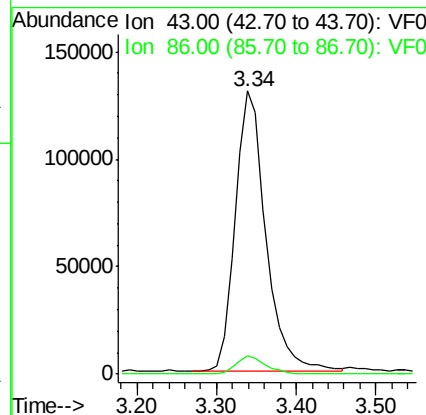
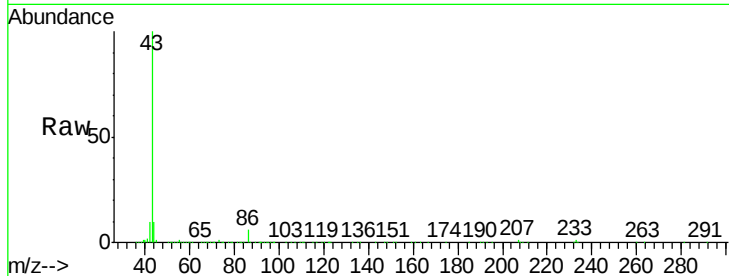
Ion Ratio Lower Upper

43 100

86 6.5 5.9 8.9

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4/19/2019 10:52:23 AM



#24

1,1-Dichloroethane

Concen: 10.719 ug/l

RT: 3.00 min Scan# 251

Delta R.T. 0.00 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

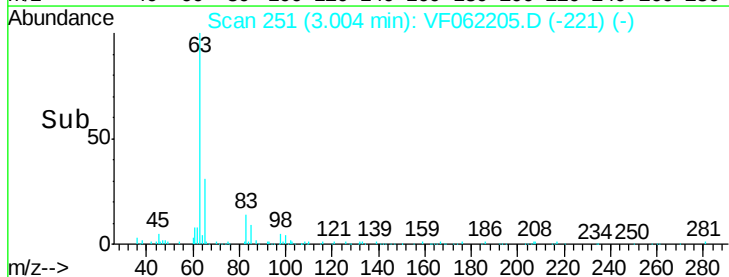
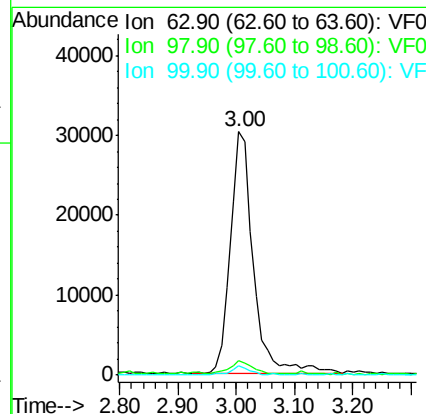
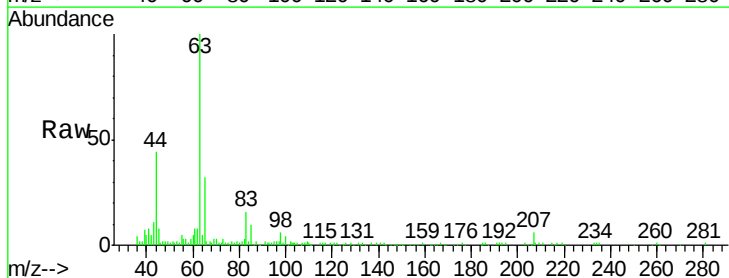
Tgt Ion: 63 Resp: 84017

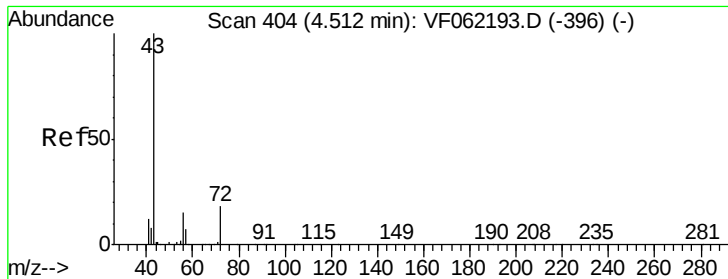
Ion Ratio Lower Upper

63 100

98 5.4 2.3 6.8

100 4.0 1.7 5.0





#25

2-Butanone

Concen: 52.690 ug/l

RT: 4.52 min Scan# 405

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tot Ion: 43 Resp: 101176

Ion Ratio Lower Upper

43 100

72 17.5 16.1 24.1

Instrument :

MSVOA_F

ClientSampleId :

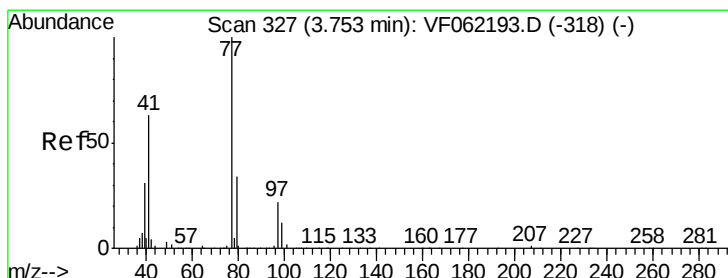
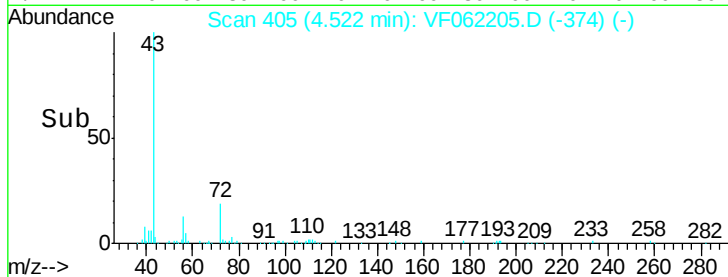
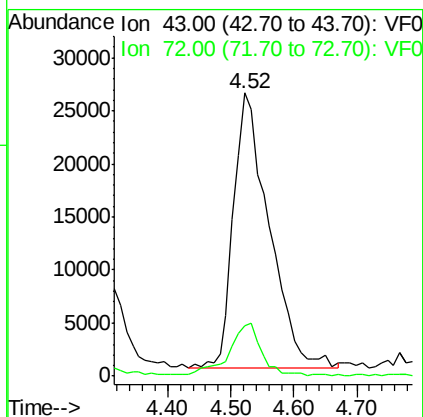
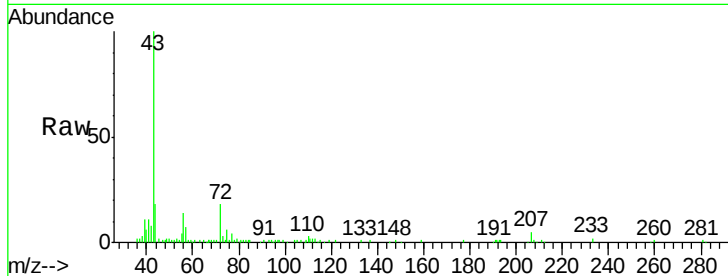
LOQ-SOIL-02-QT2-2019

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4/19/2019 10:52:23 AM



#26

2,2-Dichloropropane

Concen: 10.038 ug/l

RT: 3.77 min Scan# 329

Delta R.T. 0.02 min

Lab File: VF062205.D

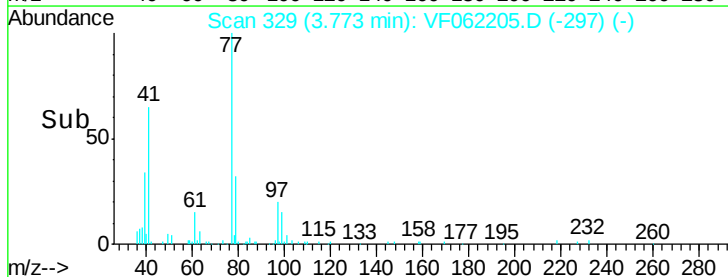
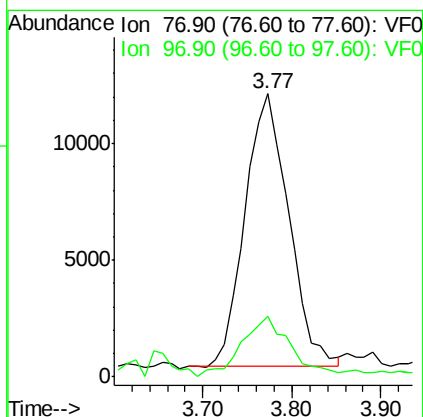
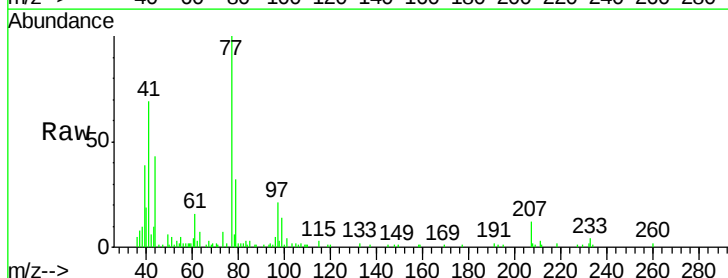
Acq: 18 Apr 2019 15:16

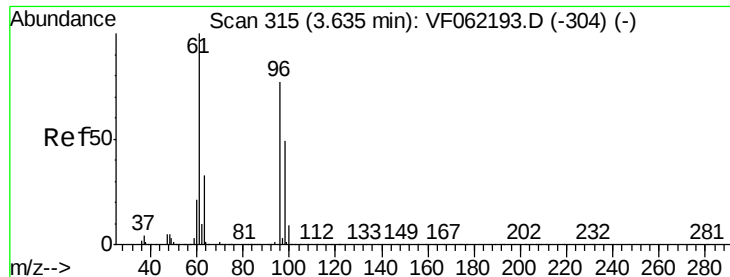
Tgt Ion: 77 Resp: 39722

Ion Ratio Lower Upper

77 100

97 24.8 11.1 33.3





#27

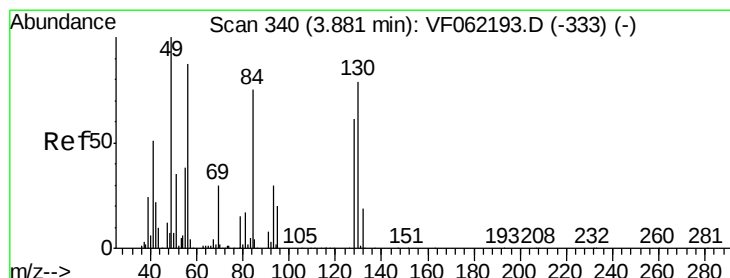
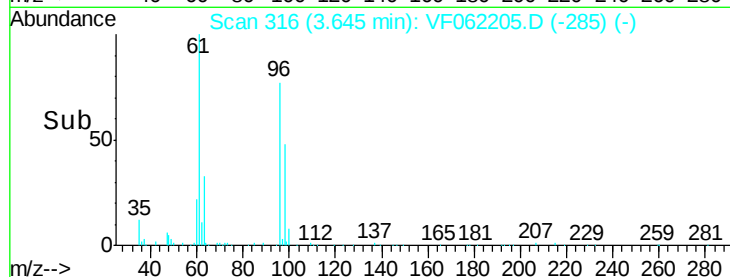
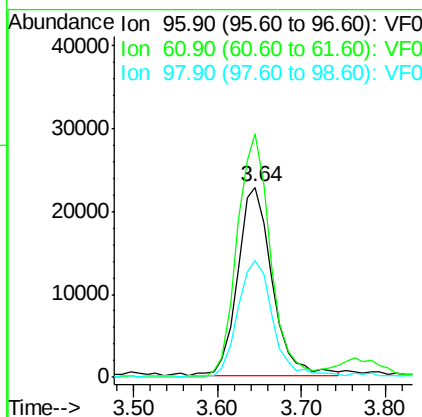
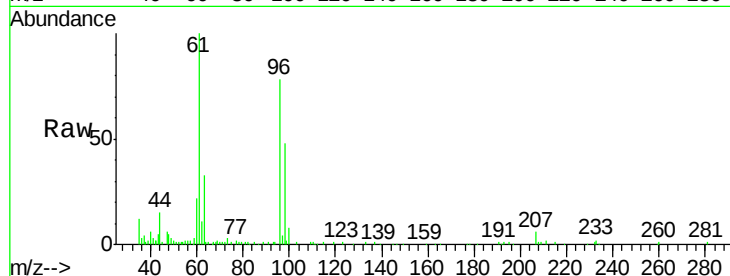
cis-1,2-Dichloroethene
Concen: 10.285 ug/l
RT: 3.64 min Scan# 316
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
96	100	64287		
61	125.9		0.0	253.6
98	63.1		0.0	124.8

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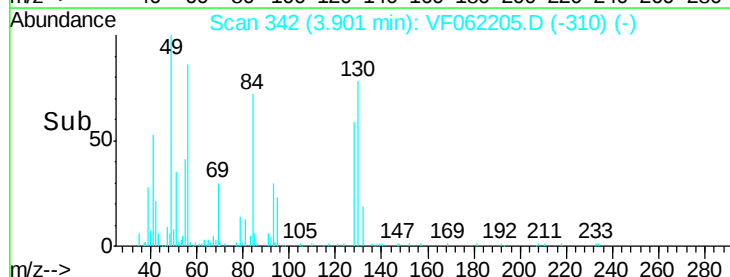
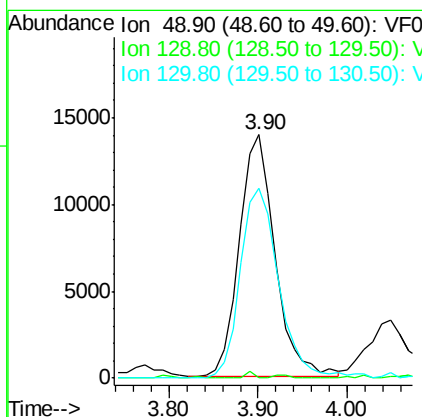
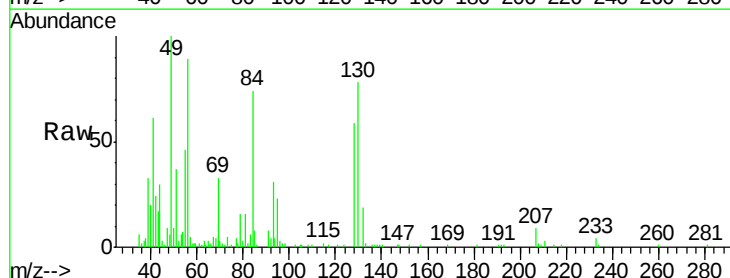
MMDadoda
4/19/2019 10:52:23 AM



#28

Bromochloromethane
Concen: 10.361 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.02 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	38903		
129	0.6		0.0	0.0#
130	84.4		66.6	100.0





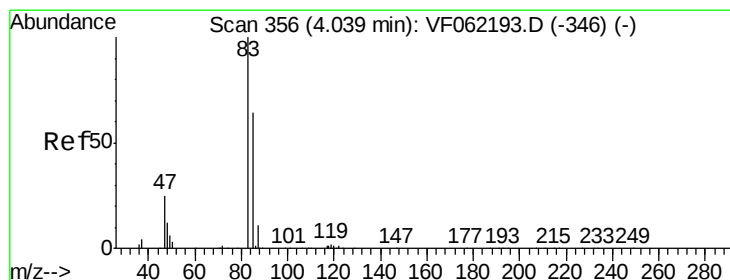
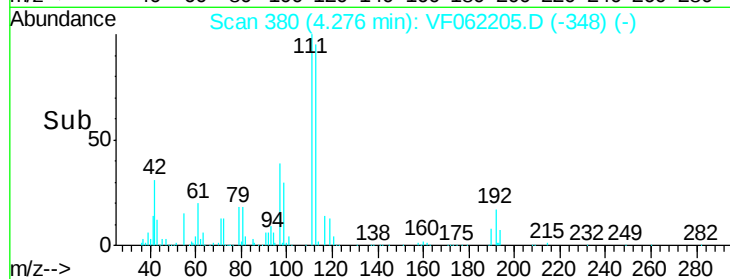
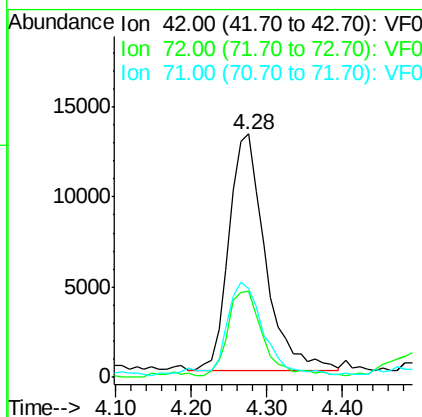
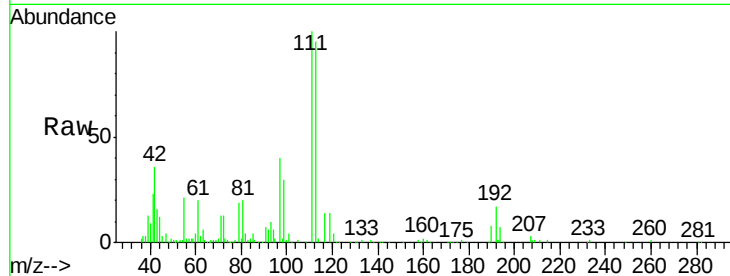
#29
Tetrahydrofuran
Concen: 49.486 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.02 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	35.3	28.6	43.0	
71	42.7	29.2	43.8	

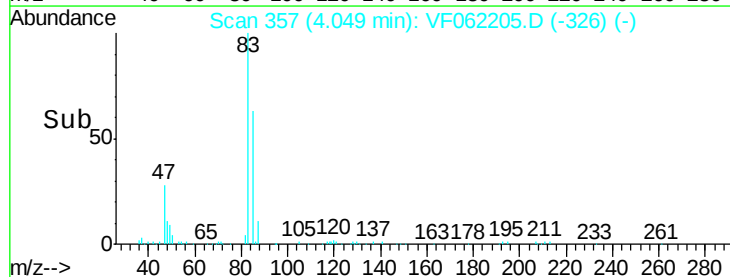
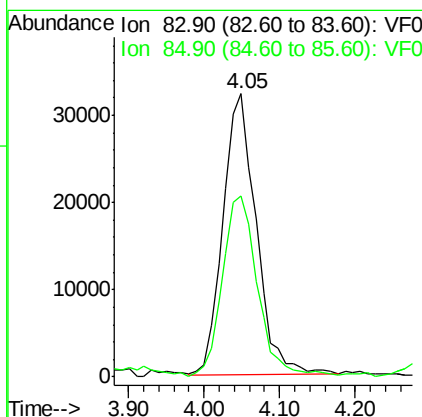
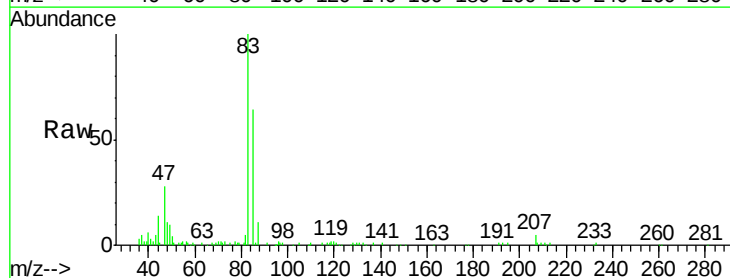
Manual Integrations
APPROVED

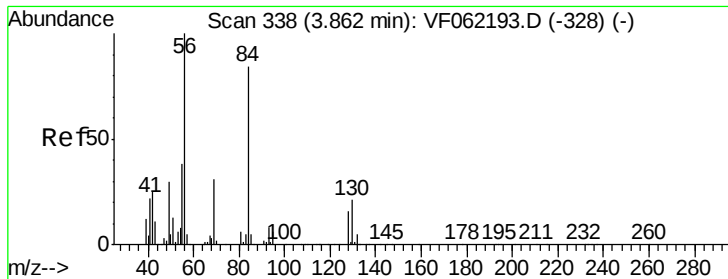
MMDadoda
4/19/2019 10:52:23 AM



#30
Chloroform
Concen: 10.215 ug/l
RT: 4.05 min Scan# 357
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.8	51.8	77.8	





#31

Cyclohexane

Concen: 9.809 ug/l

RT: 3.87 min Scan# 339

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

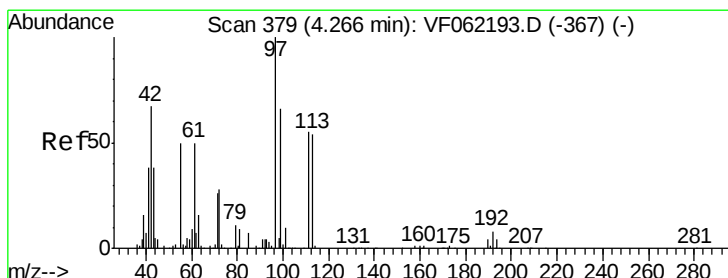
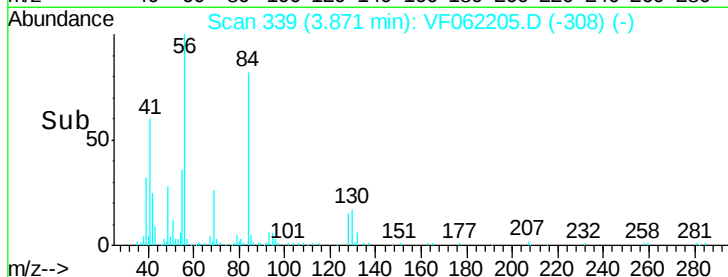
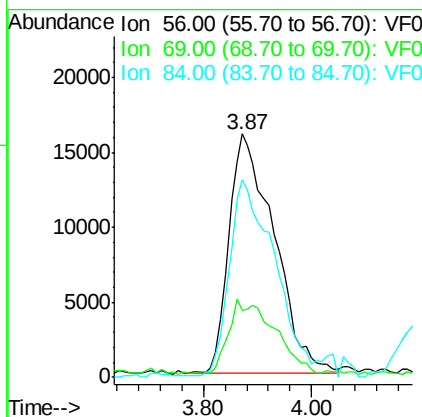
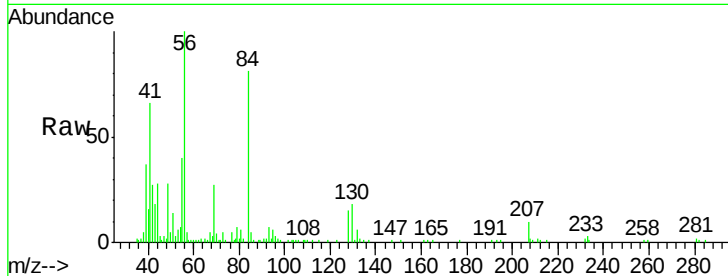
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	56	Resp:	92136
Ion	Ratio	Lower	Upper
56	100		
69	26.2	25.1	37.7
84	82.4	67.8	101.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 8.803 ug/l

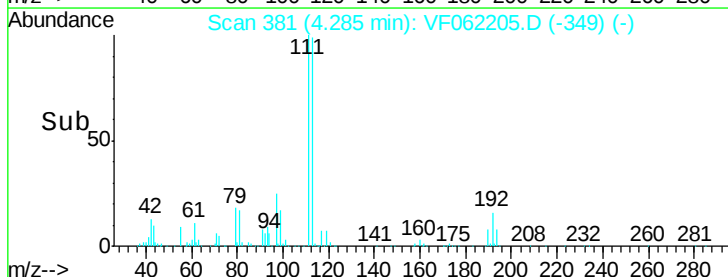
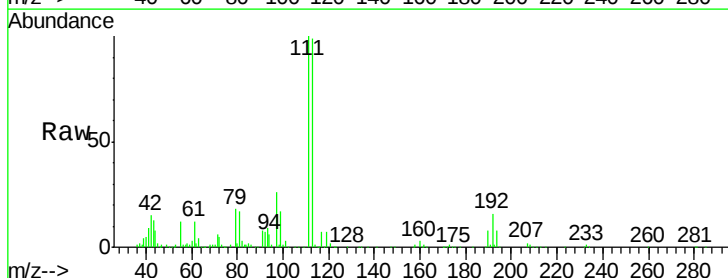
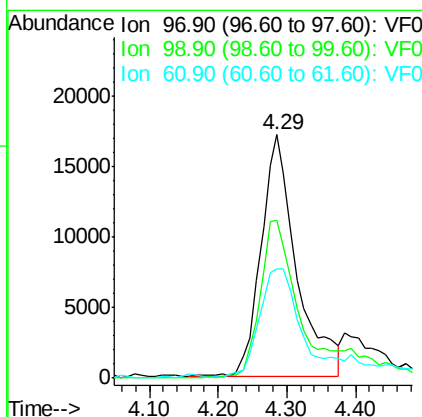
RT: 4.29 min Scan# 381

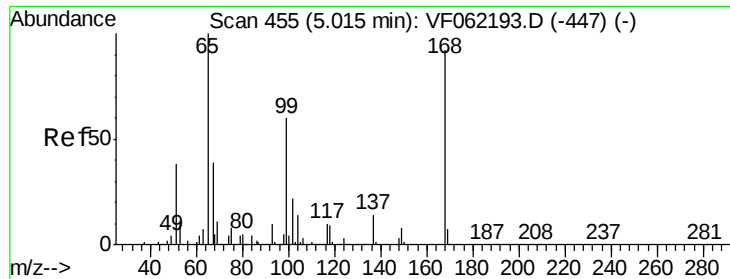
Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	97	Resp:	62074
Ion	Ratio	Lower	Upper
97	100		
99	69.1	52.7	79.1
61	50.4	53.0	79.4#





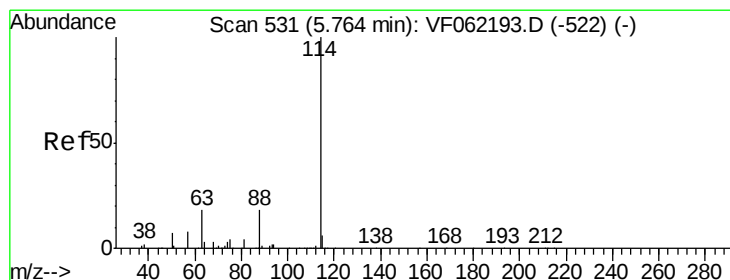
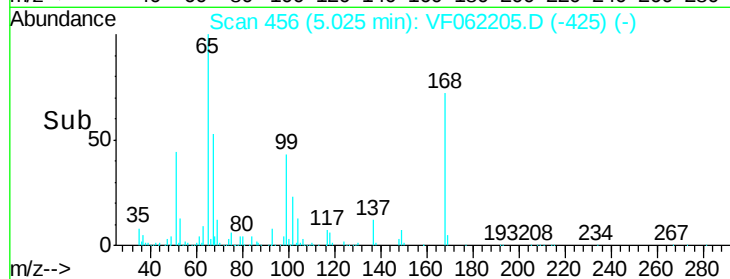
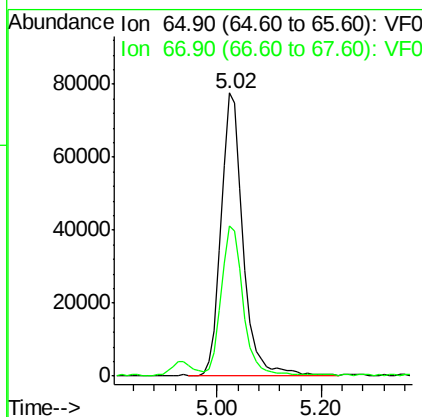
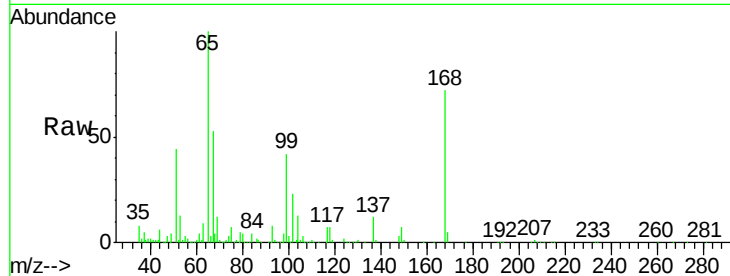
#33
 1,2-Dichloroethane-d4
 Concen: 56.060 ug/l
 RT: 5.02 min Scan# 456
 Delta R.T. 0.01 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	225228		
67	51.4	0.0	109.4	

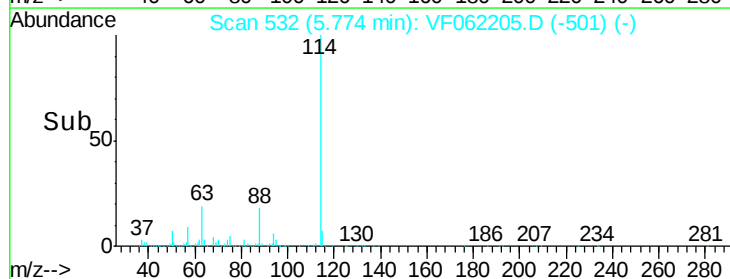
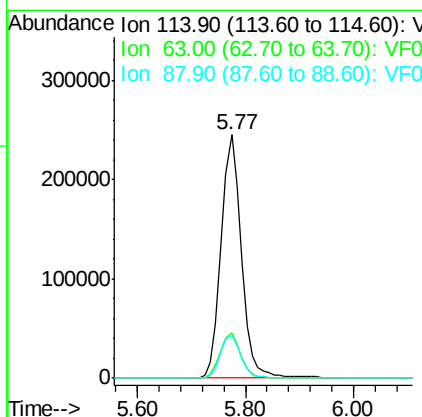
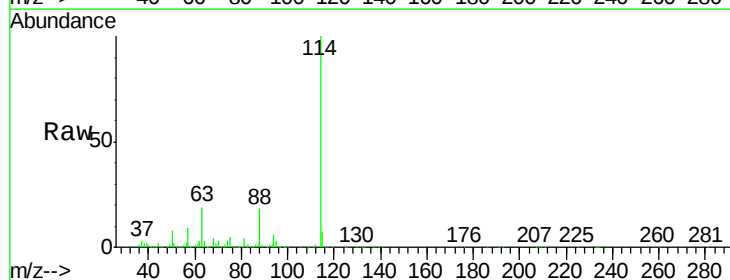
Manual Integrations
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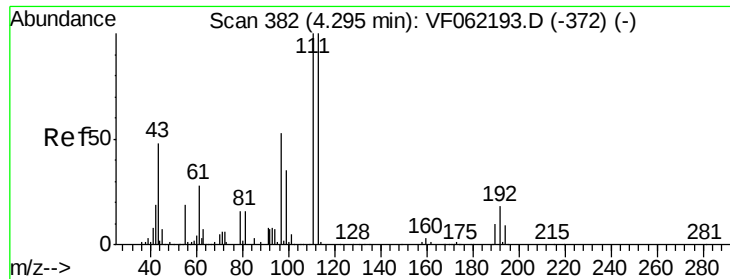
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	638179		
63	18.7	0.0	36.6	
88	17.7	0.0	35.8	





#35

Dibromofluoromethane

Concen: 53.081 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

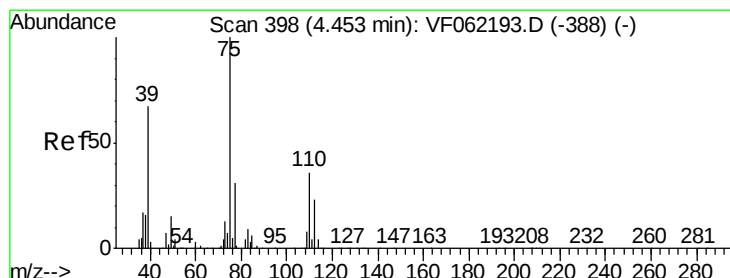
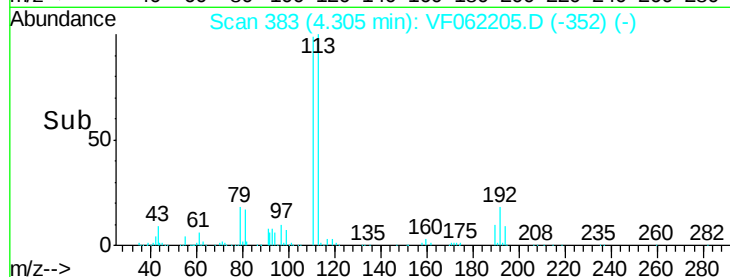
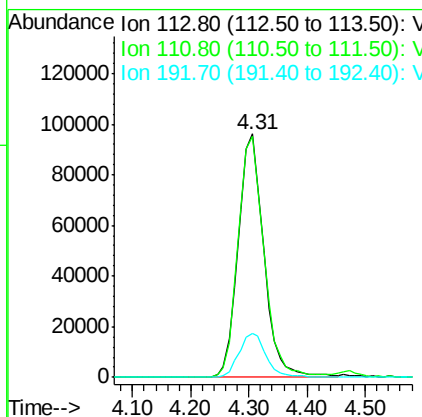
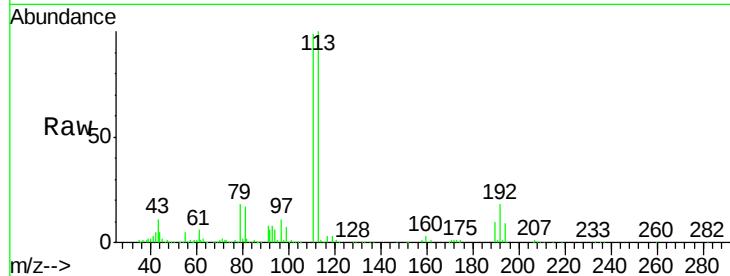
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	113	Resp:	296319
Ion Ratio	Lower	Upper	
113	100		
111	100.3	81.1	121.7
192	19.1	14.7	22.1

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 10.366 ug/l

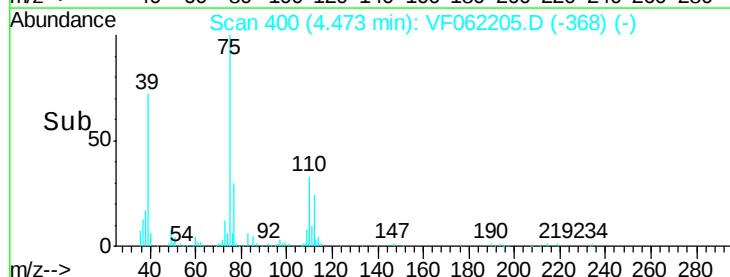
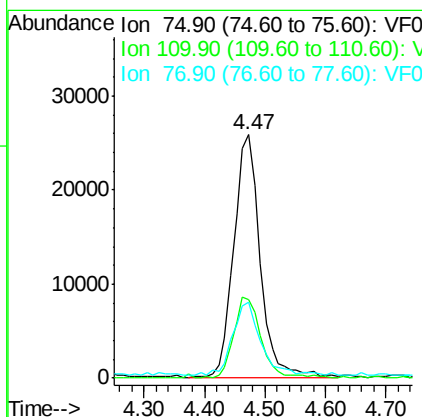
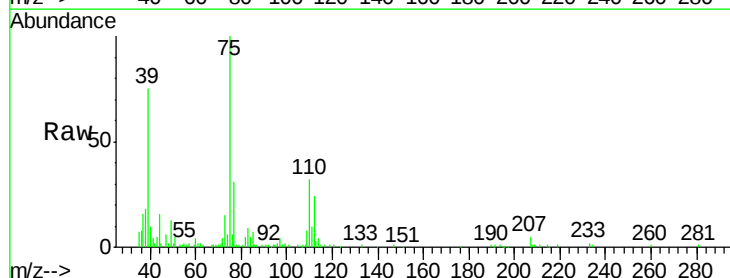
RT: 4.47 min Scan# 400

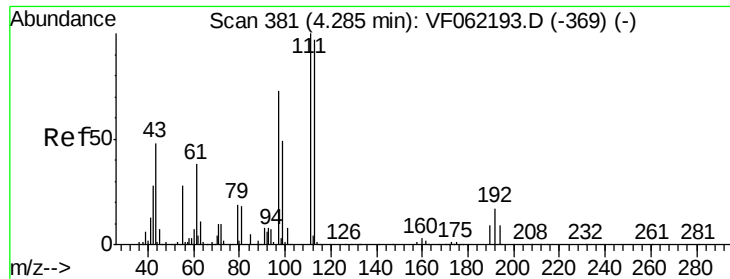
Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	75	Resp:	79312
Ion Ratio	Lower	Upper	
75	100		
110	34.3	18.4	55.2
77	30.8	25.4	38.2





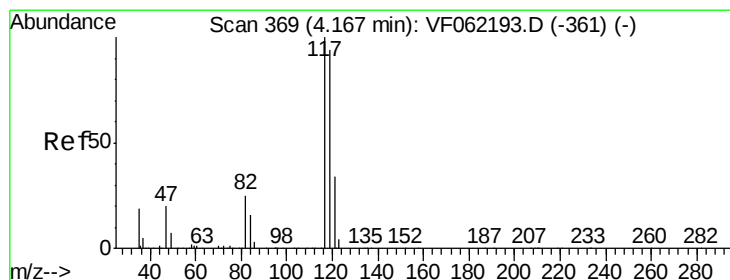
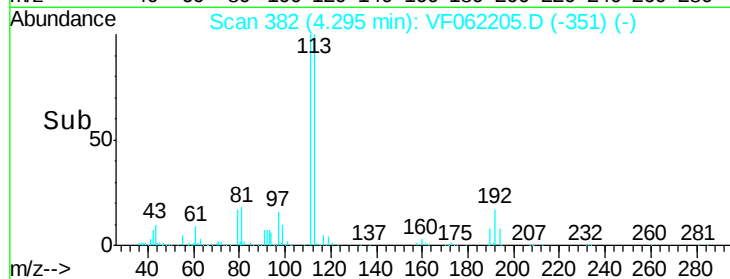
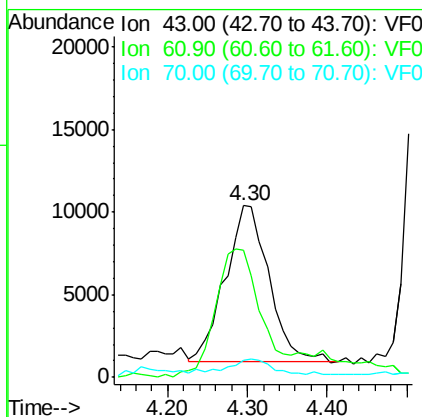
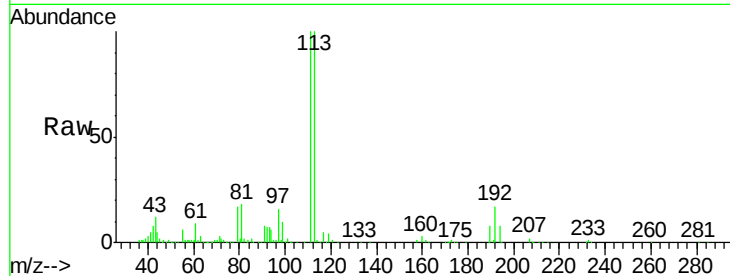
#37
Ethyl Acetate
Concen: 10.030 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	43	Ratio	Lower	Upper
36214	100			
61	86.4	0.0	0.0	
70	10.6	7.8	11.6	

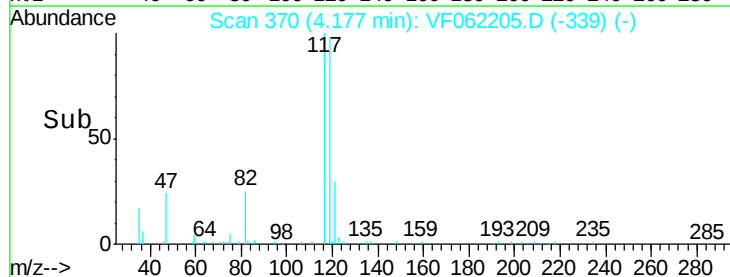
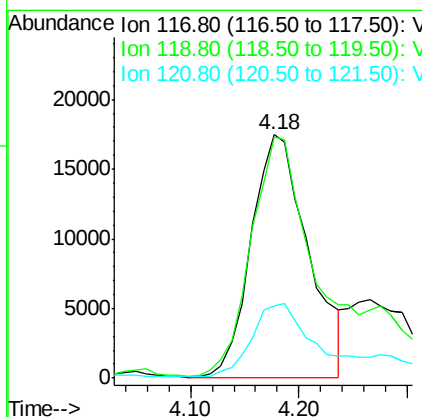
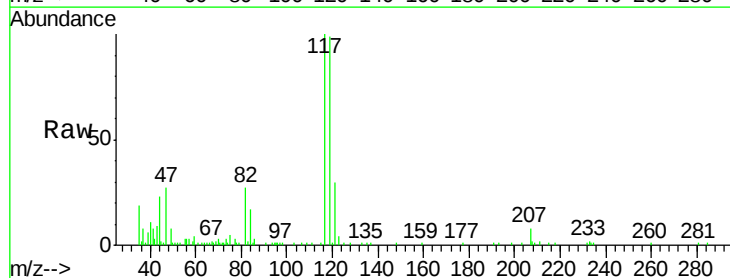
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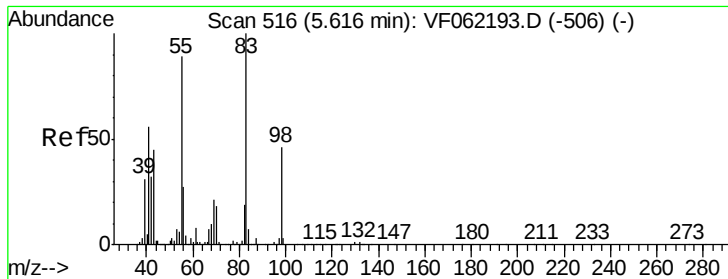
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#38
Carbon Tetrachloride
Concen: 9.541 ug/l
RT: 4.18 min Scan# 370
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	117	Ratio	Lower	Upper
64617	100			
119	98.1	75.0	112.4	
121	29.1	26.9	40.3	





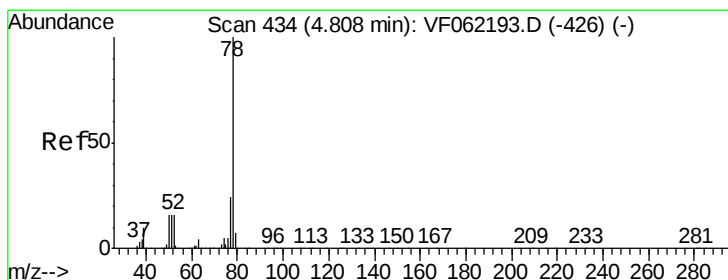
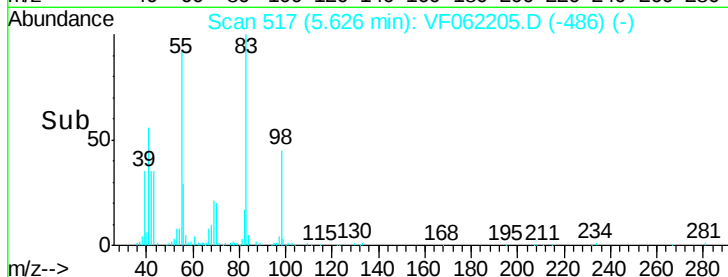
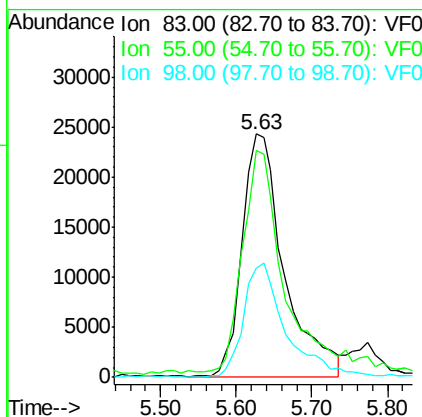
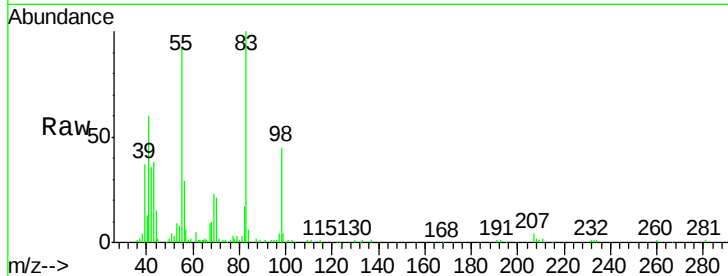
#39
Methvlcvclohexane
Concen: 10.214 ug/l
RT: 5.63 min Scan# 517
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	83	Resp	93570
Ion Ratio	Lower	Upper	
83	100		
55	91.0	71.0	106.6
98	45.1	36.7	55.1

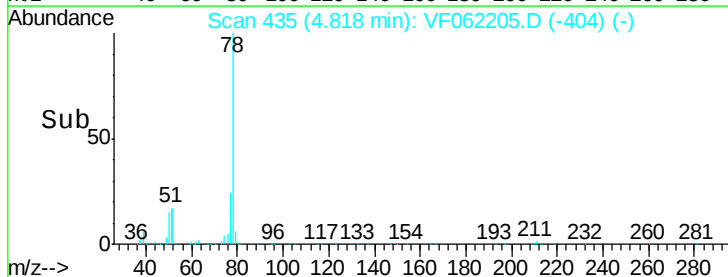
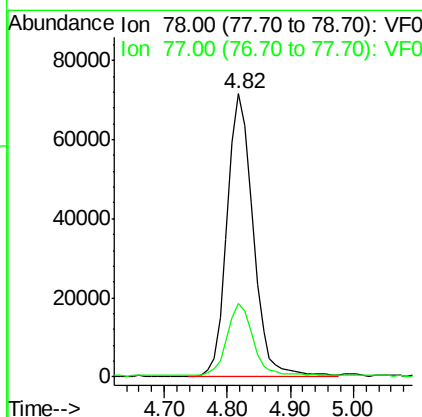
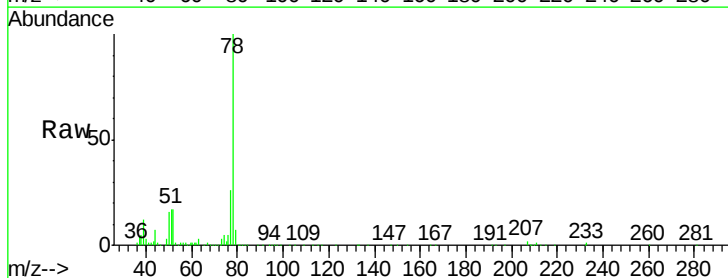
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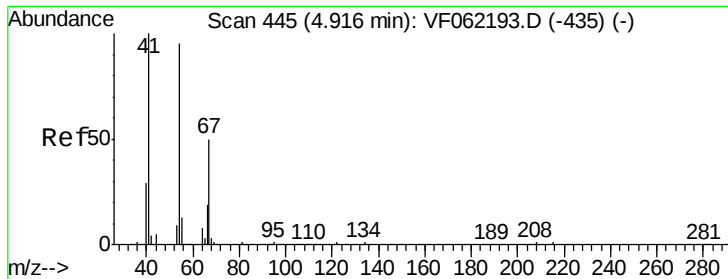
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#40
Benzene
Concen: 10.256 ug/l
RT: 4.82 min Scan# 435
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	78	Resp	205825
Ion Ratio	Lower	Upper	
78	100		
77	25.5	18.9	28.3





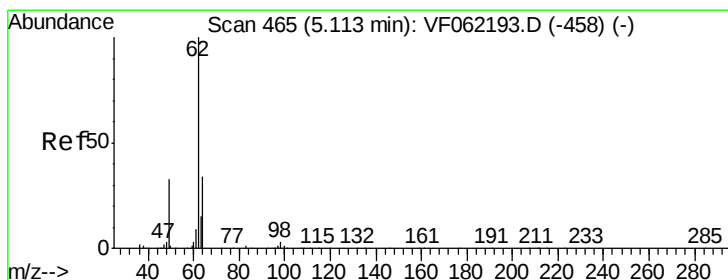
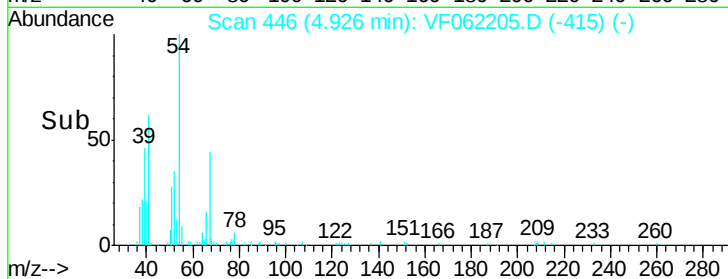
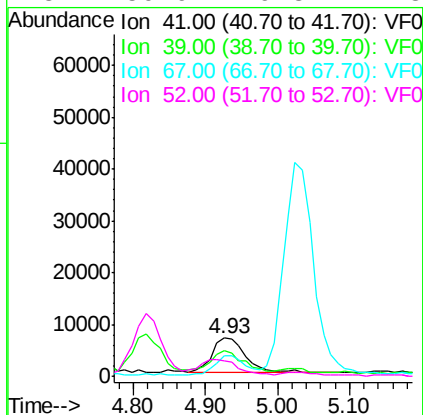
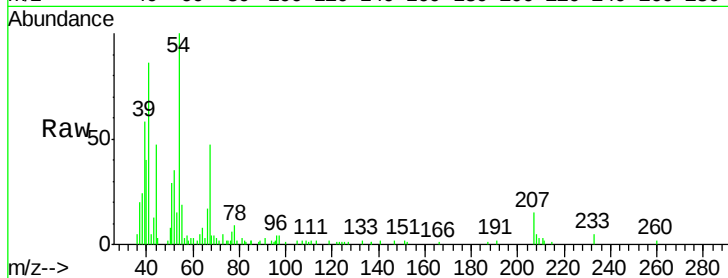
#41
Methacrylonitrile
Concen: 10.594 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	62.4	44.7	67.1
67	48.4	39.1	58.7
52	59.9	49.8	74.8

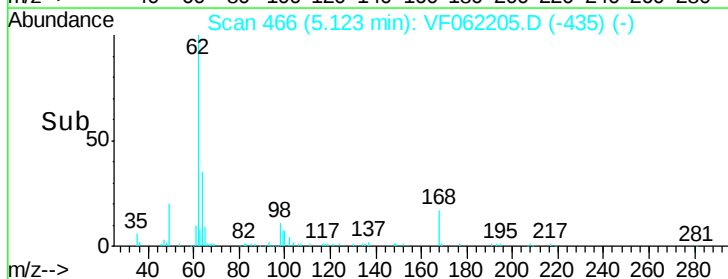
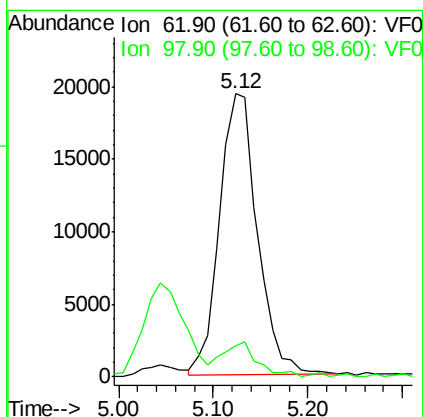
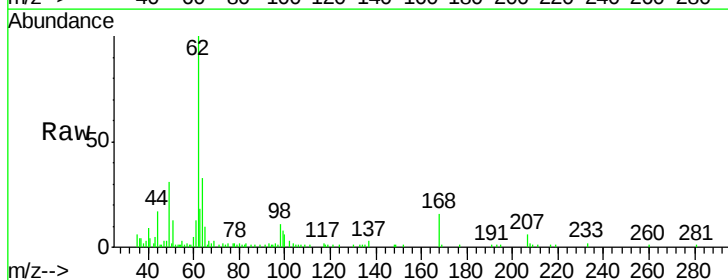
Manual Integrations
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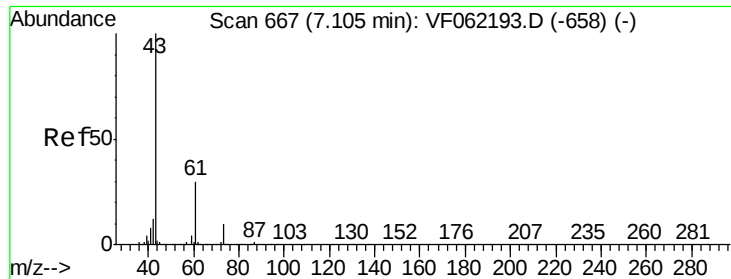
MMDadoda
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#42
1,2-Dichloroethane
Concen: 10.135 ug/l
RT: 5.12 min Scan# 466
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.5	0.0	19.0





#43

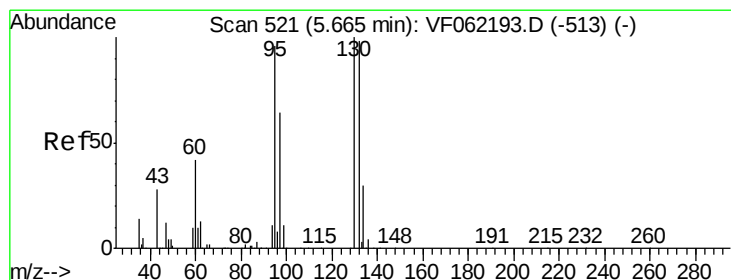
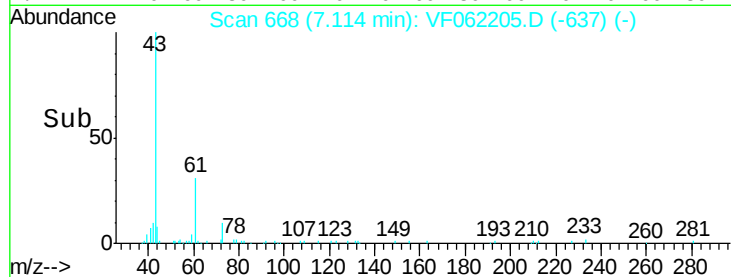
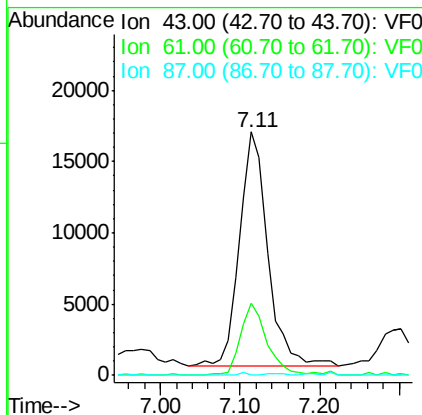
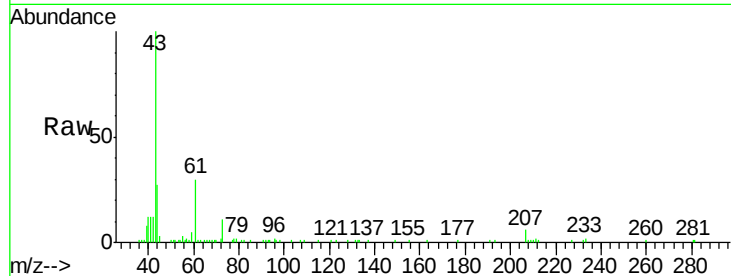
Isopropyl Acetate
 Concen: 10.687 ug/l
 RT: 7.11 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.5	24.4	36.6
87	0.2	0.4	0.6

Manual Integrations
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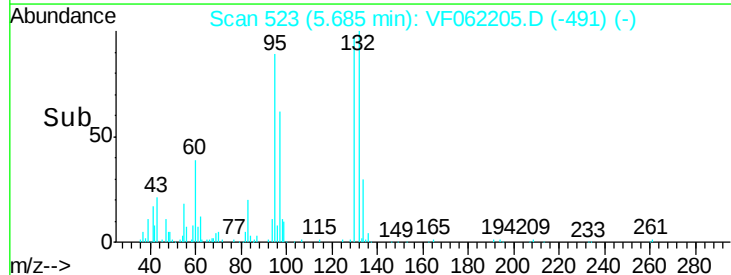
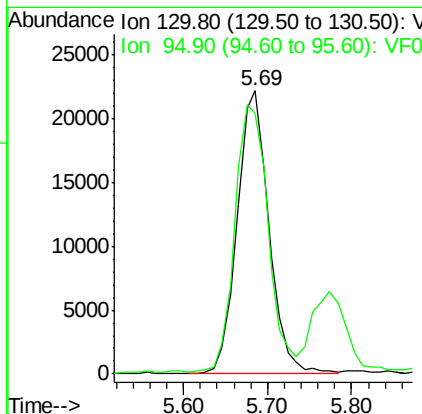
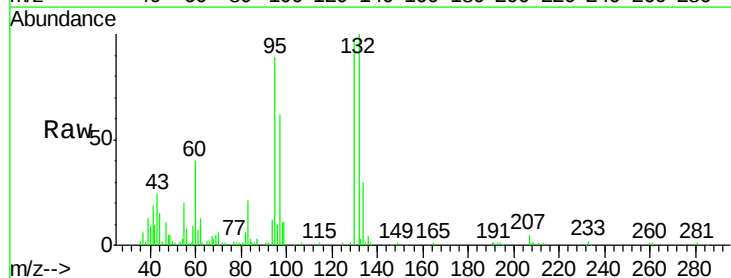
MMDadoda
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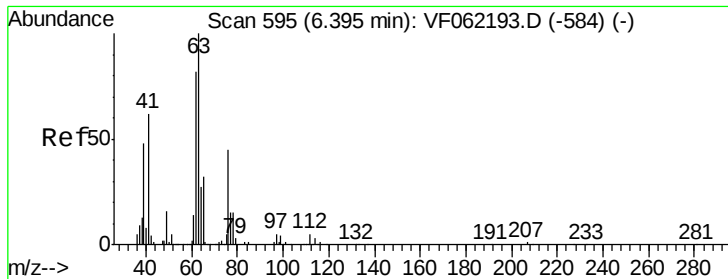


#44

Trichloroethene
 Concen: 10.783 ug/l
 RT: 5.69 min Scan# 523
 Delta R.T. 0.02 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.5	0.0	191.4





#45

1,2-Dichloropropane

Concen: 10.636 ug/l

RT: 6.40 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 63 Resp: 47017

Ion Ratio Lower Upper

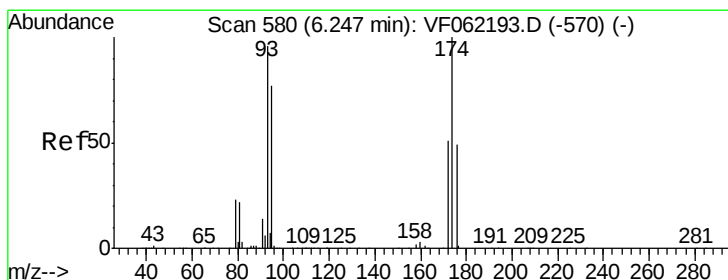
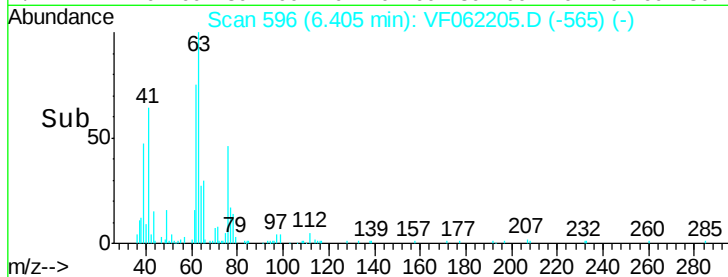
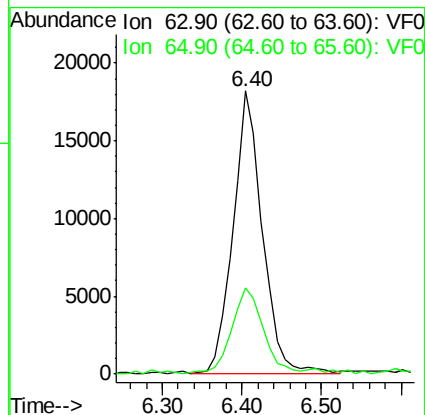
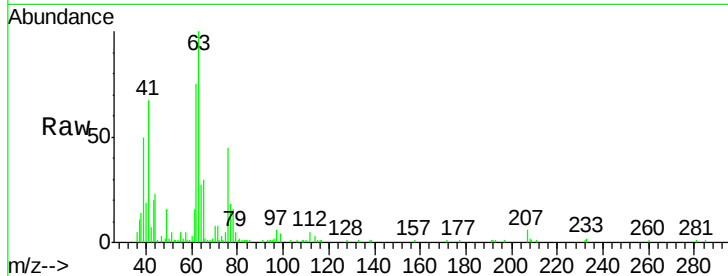
63 100

65 29.7 25.9 38.9

Manual Integrations
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#46

Dibromomethane

Concen: 10.800 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

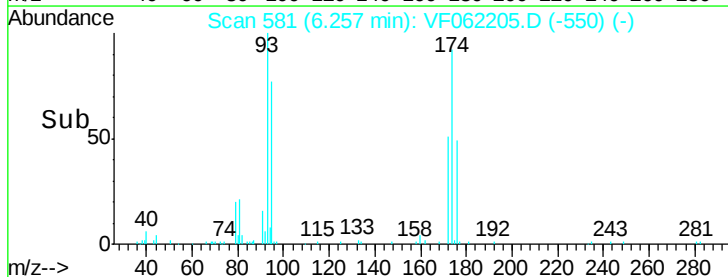
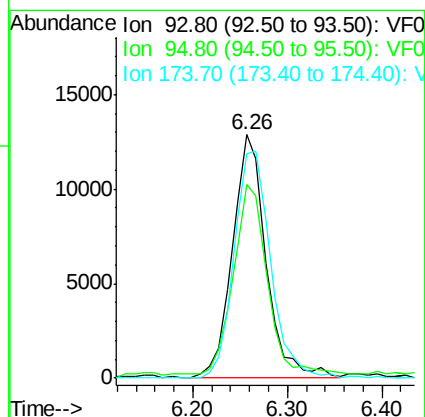
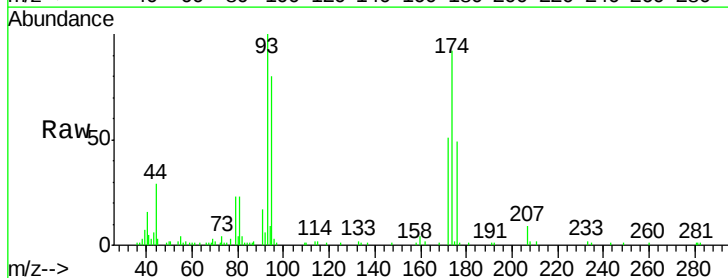
Tgt Ion: 93 Resp: 31765

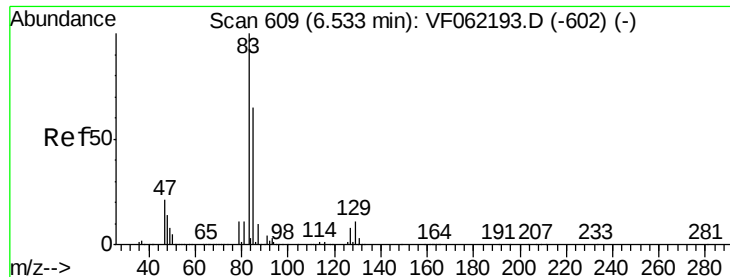
Ion Ratio Lower Upper

93 100

95 81.1 65.1 97.7

174 101.7 81.8 122.6





#47

Bromodichloromethane

Concen: 10.714 ug/l

RT: 6.55 min Scan# 611

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

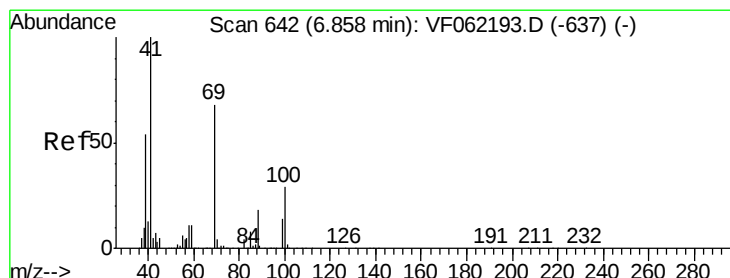
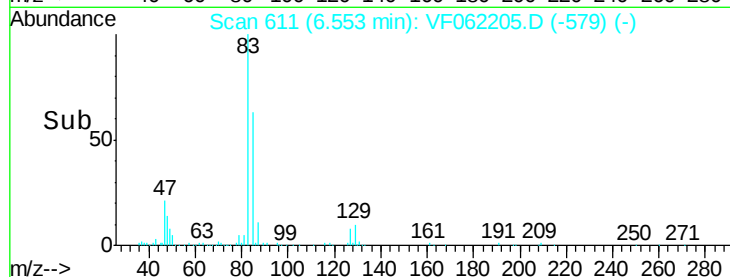
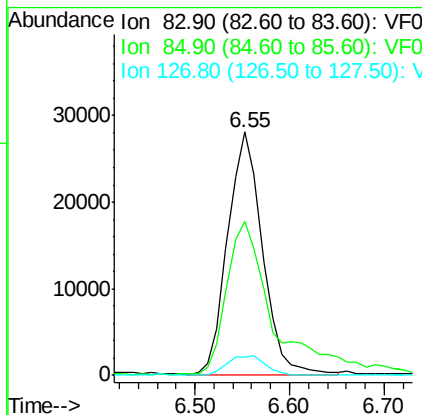
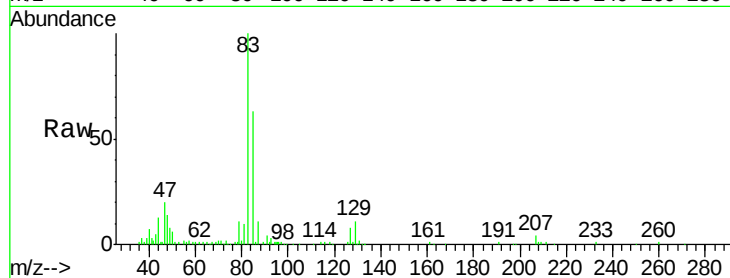
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	83	Resp:	71112
Ion Ratio	Lower	Upper	
83	100		
85	62.7	52.2	78.4
127	7.8	6.7	10.1

Manual Integrations
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4/19/2019 10:52:23 AM



#48

Methyl methacrylate

Concen: 9.828 ug/l

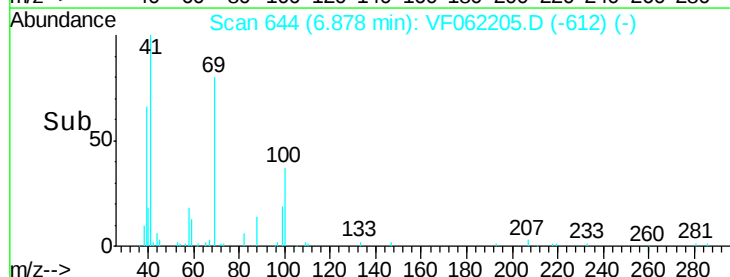
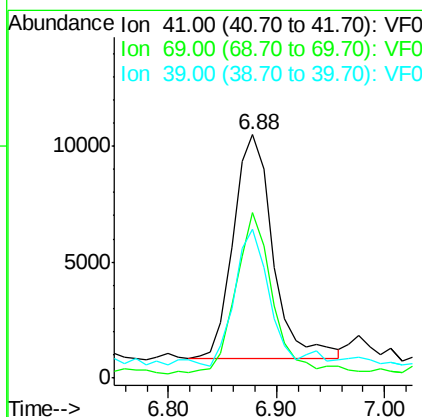
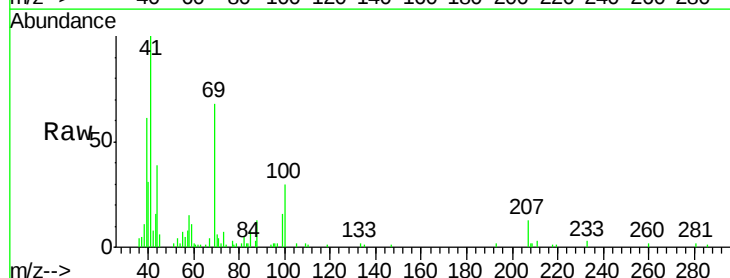
RT: 6.88 min Scan# 644

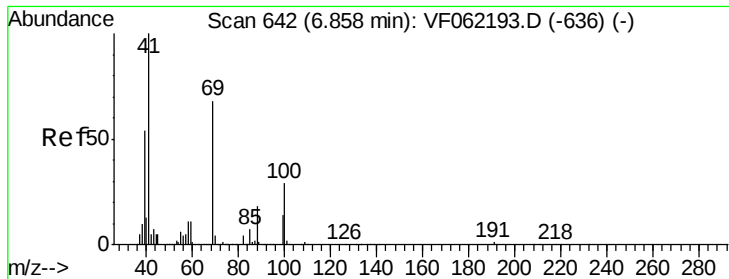
Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	41	Resp:	24528
Ion Ratio	Lower	Upper	
41	100		
69	68.9	54.9	82.3
39	56.0	43.6	65.4





#49

1,4-Dioxane

Concen: 197.235 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

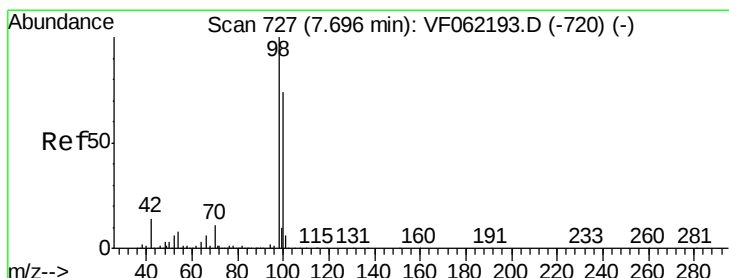
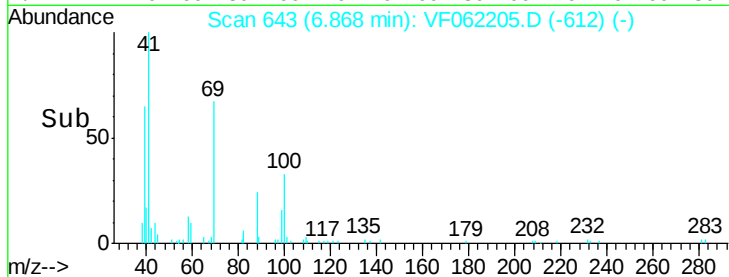
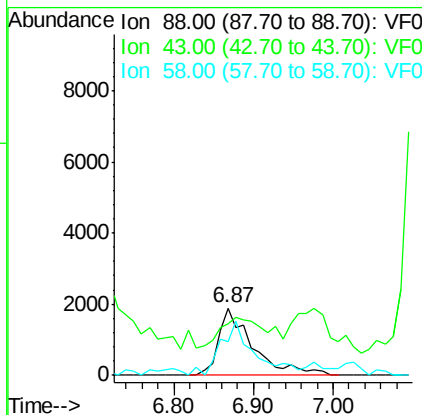
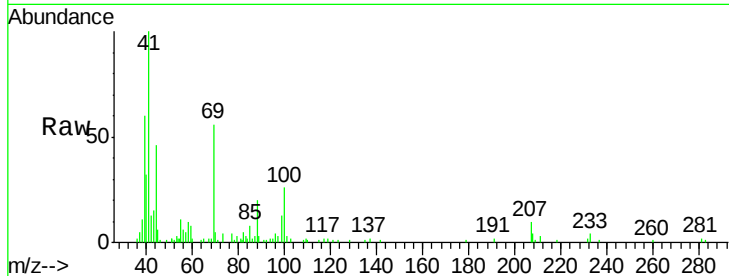
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	88	Resp:	5645
Ion	Ratio	Lower	Upper
88	100		
43	43.6	36.9	55.3
58	80.2	56.8	85.2

Manual Integrations
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#50

Toluene-d8

Concen: 52.792 ug/l

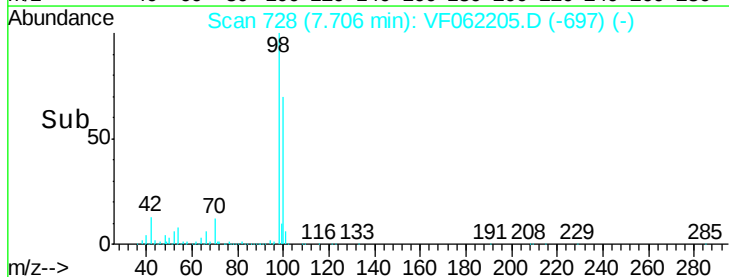
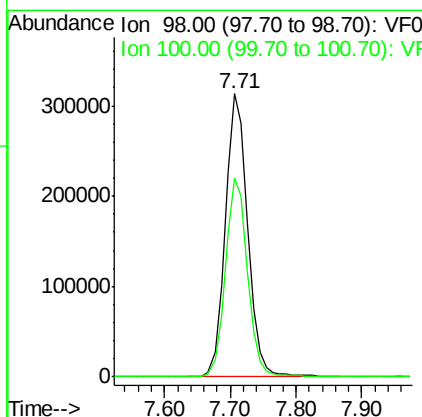
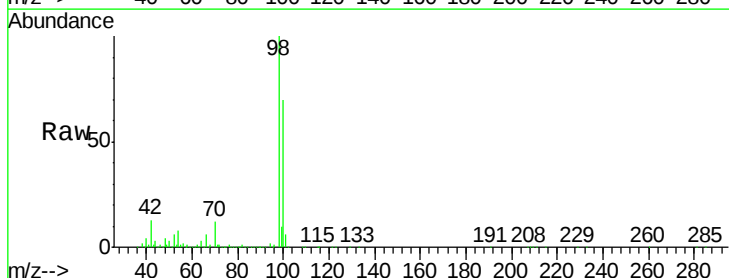
RT: 7.71 min Scan# 728

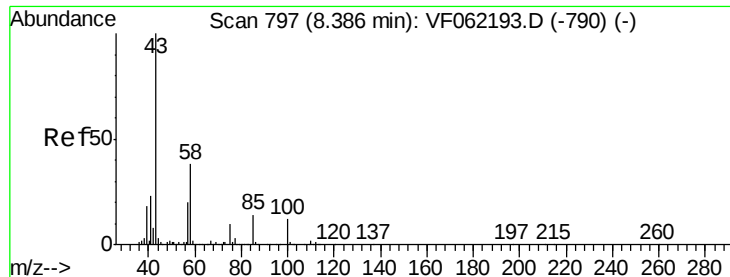
Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	98	Resp:	746008
Ion	Ratio	Lower	Upper
98	100		
100	70.1	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 54.584 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 154171

Ion Ratio Lower Upper

43 100

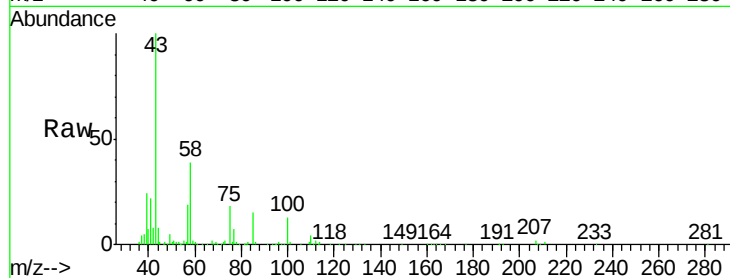
58 37.1 29.3 43.9

Manual Integrations

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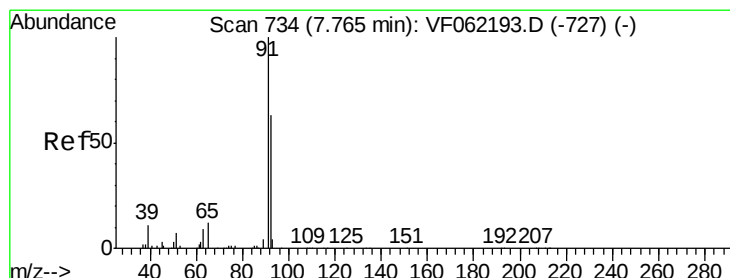
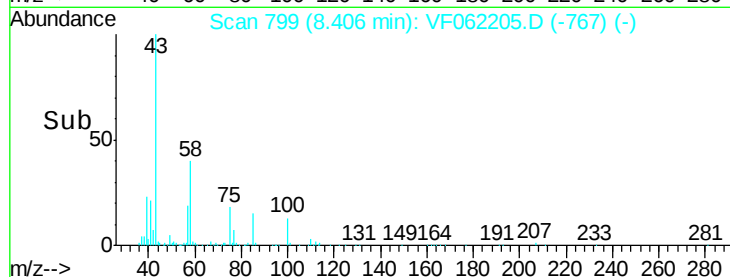
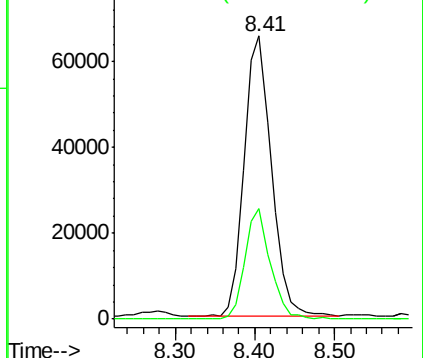
MMDadoda

4/19/2019 10:52:23 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 10.720 ug/l

RT: 7.77 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF062205.D

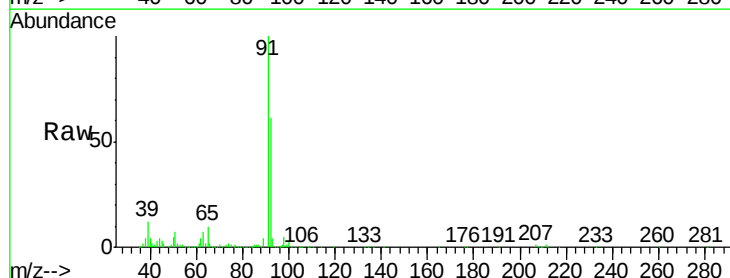
Acq: 18 Apr 2019 15:16

Tgt Ion: 92 Resp: 113402

Ion Ratio Lower Upper

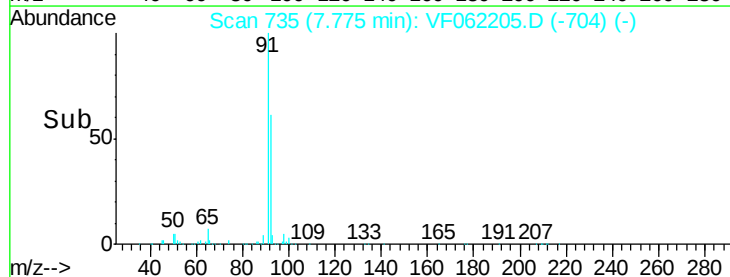
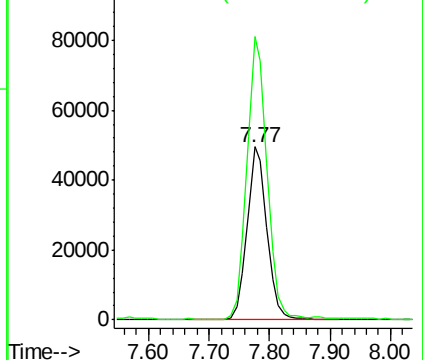
92 100

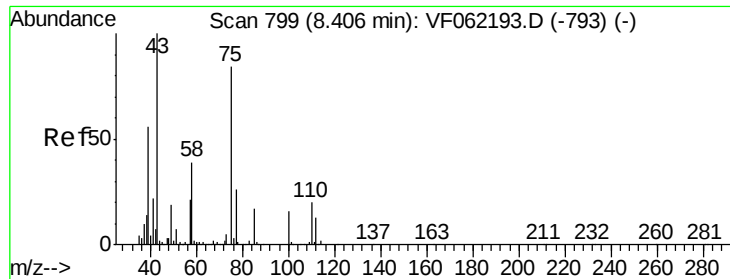
91 164.6 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

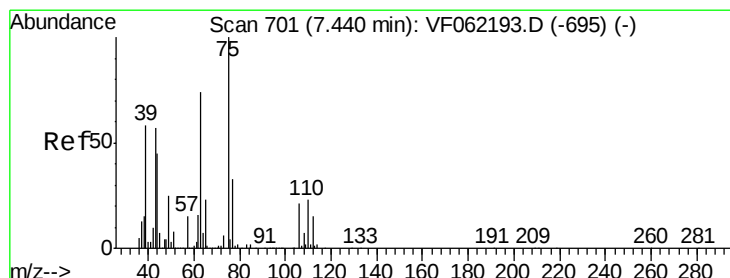
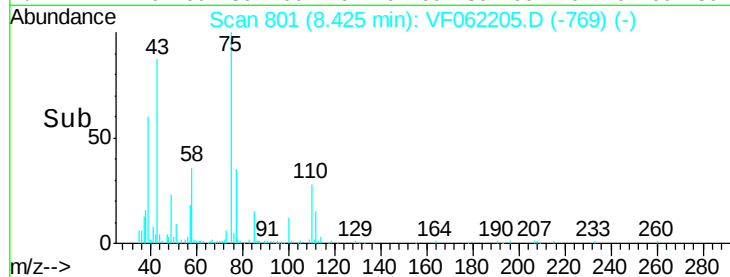
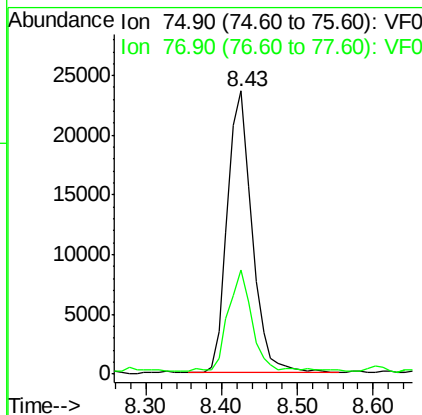
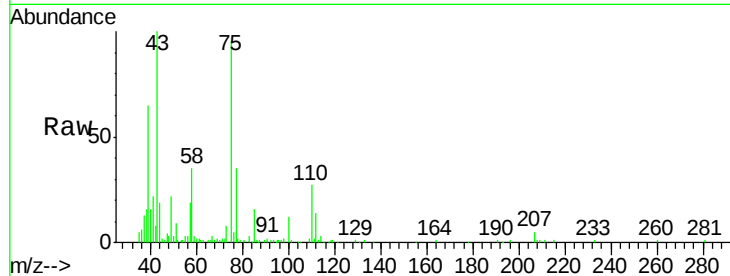
t-1,3-Dichloropropene
 Concen: 10.671 ug/l
 RT: 8.43 min Scan# 801
 Delta R.T. 0.02 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	36.0	24.6	36.8

Manual Integrations
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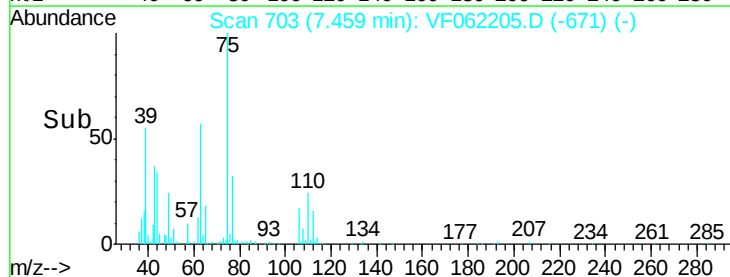
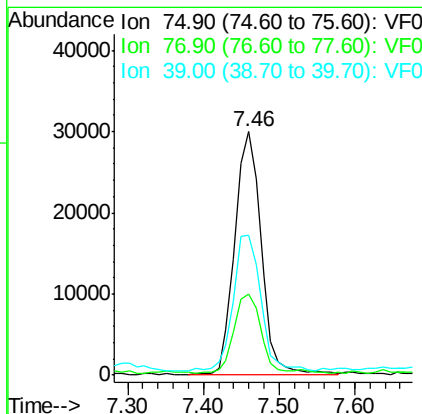
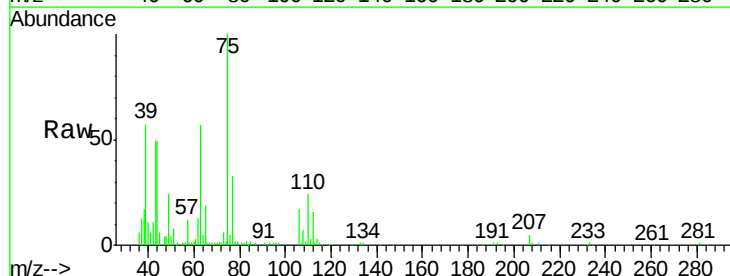
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 4/19/2019 10:52:23 AM

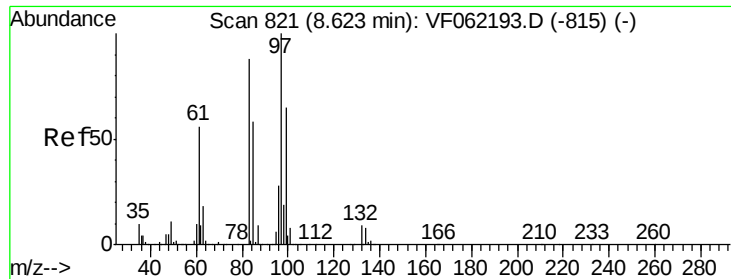


#54

cis-1,3-Dichloropropene
 Concen: 10.812 ug/l
 RT: 7.46 min Scan# 703
 Delta R.T. 0.02 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.2	26.4	39.6
39	55.8	46.7	70.1





#55

1,1,2-Trichloroethane

Concen: 10.672 ug/l

RT: 8.63 min Scan# 822

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

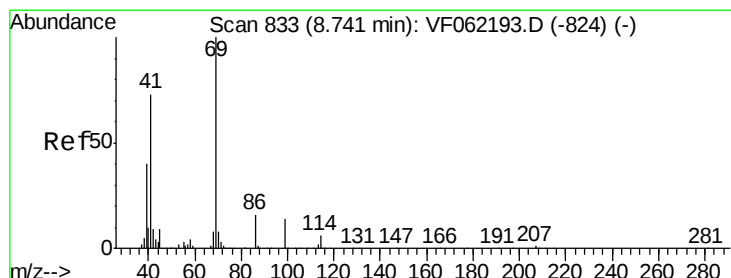
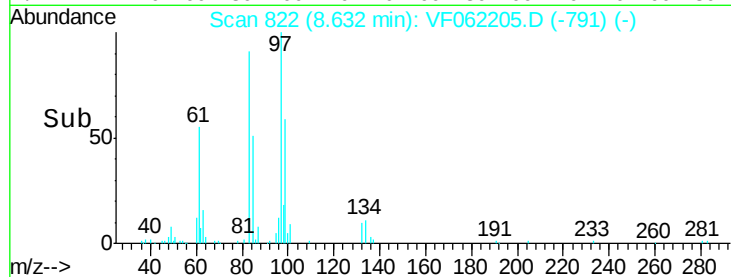
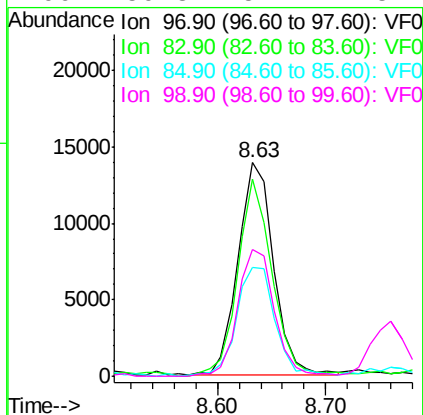
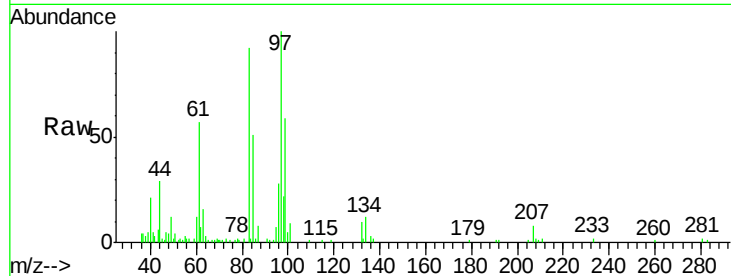
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	97	Resp:	31629
Ion	Ratio	Lower	Upper
97	100		
83	93.1	70.2	105.2
85	50.8	46.2	69.4
99	59.8	52.2	78.4

Manual Integrations
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#56

Ethyl methacrylate

Concen: 10.988 ug/l

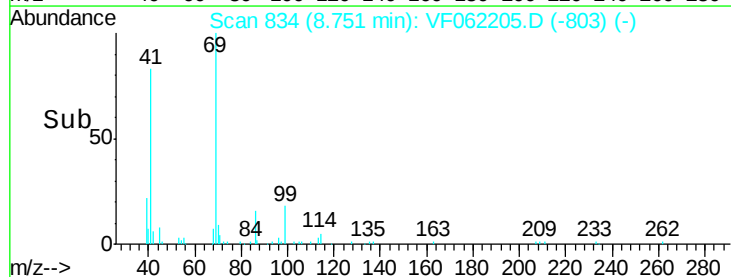
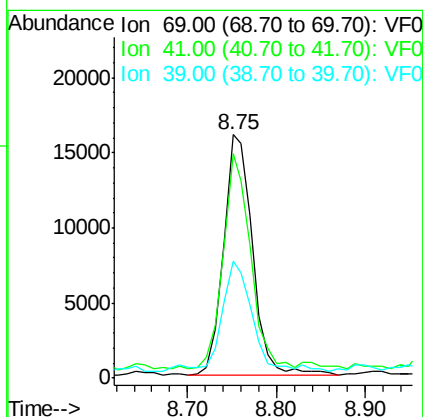
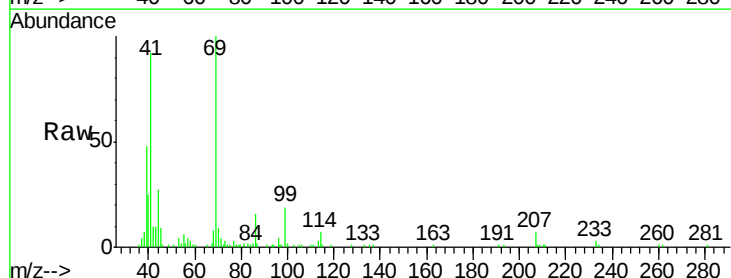
RT: 8.75 min Scan# 834

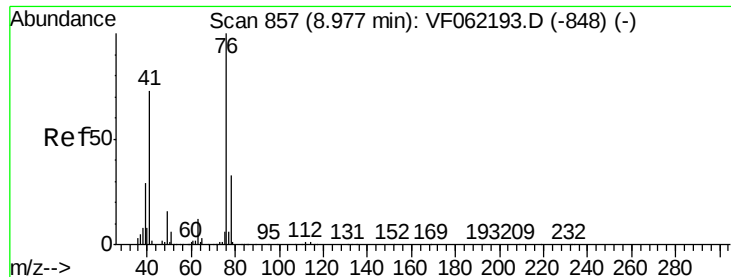
Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	69	Resp:	37024
Ion	Ratio	Lower	Upper
69	100		
41	84.0	61.5	92.3
39	42.6	33.3	49.9





#57

1,3-Dichloropropane

Concen: 10.738 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 76 Resp: 51387

Ion Ratio Lower Upper

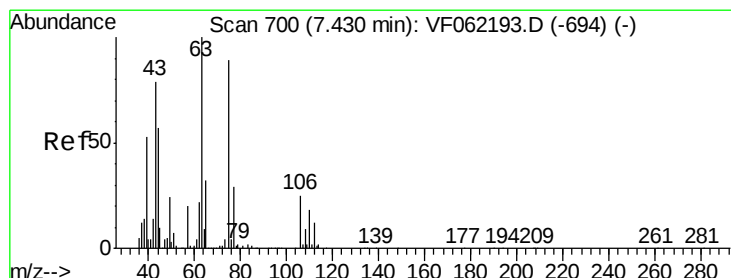
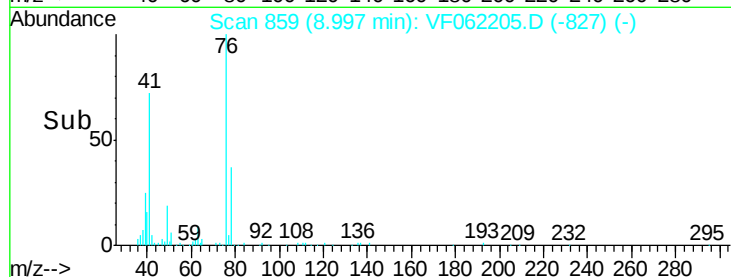
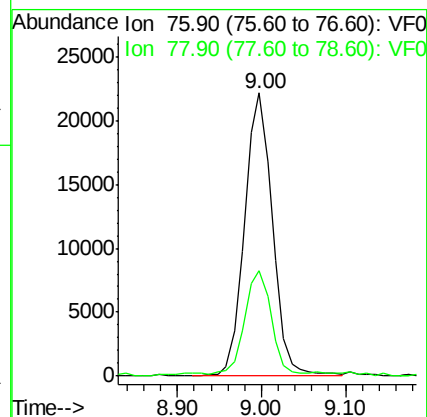
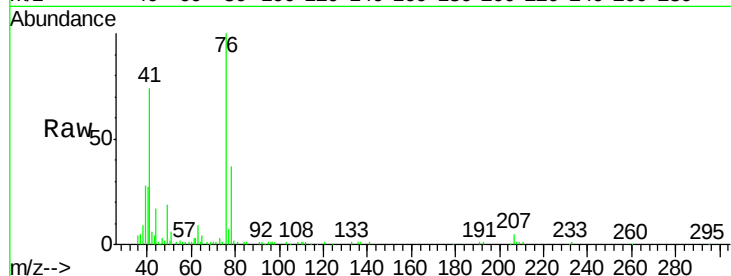
76 100

78 34.3 26.5 39.7

Manual Integrations
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4/19/2019 10:52:23 AM



#58

2-Chloroethyl Vinyl ether

Concen: 55.562 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.02 min

Lab File: VF062205.D

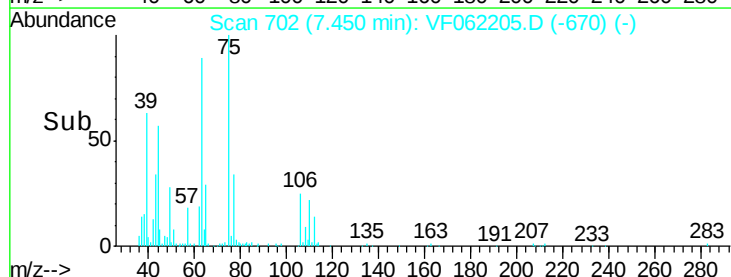
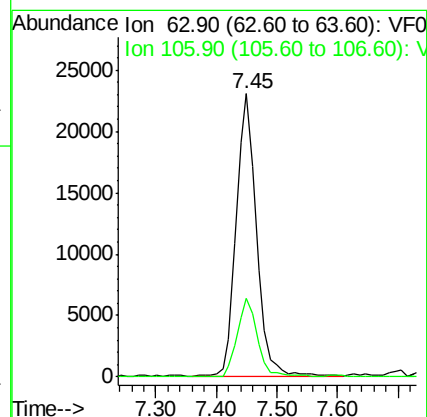
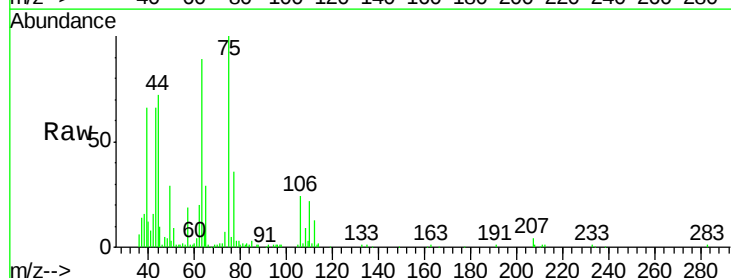
Acq: 18 Apr 2019 15:16

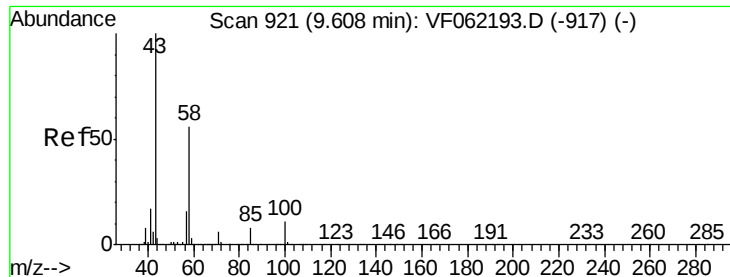
Tgt Ion: 63 Resp: 54355

Ion Ratio Lower Upper

63 100

106 27.3 21.4 32.0





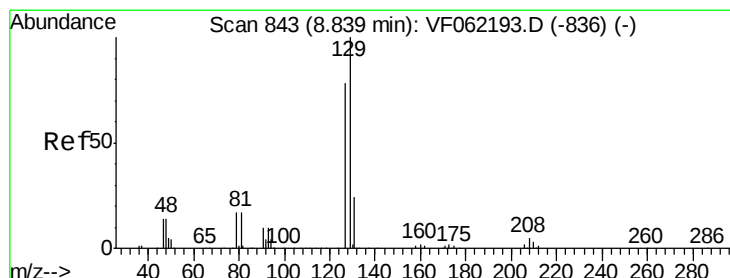
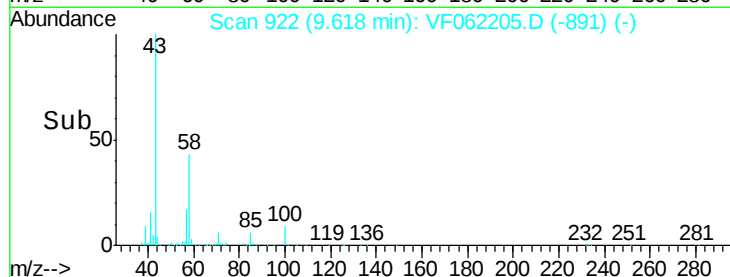
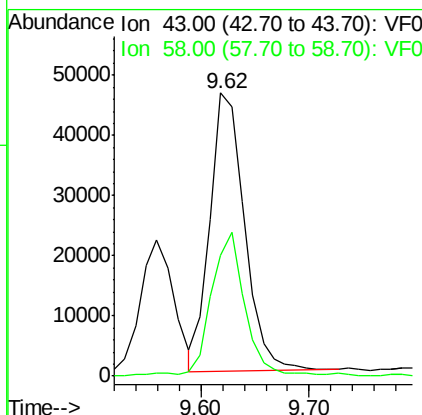
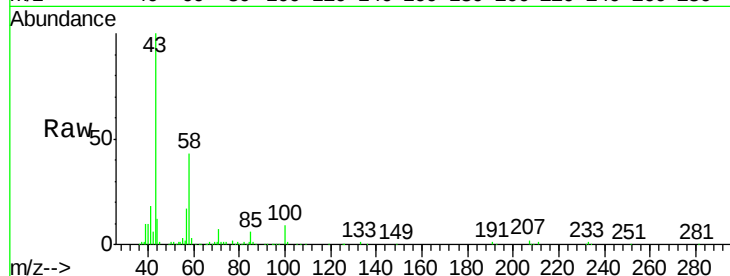
#59
2-Hexanone
Concen: 55.070 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 102487
Ion Ratio Lower Upper
43 100
58 48.7 24.6 74.0

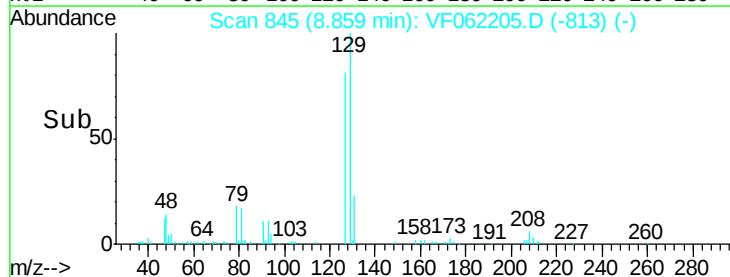
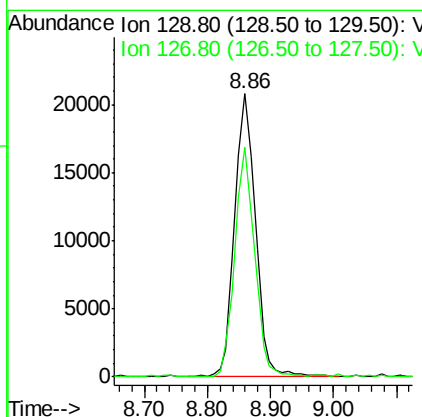
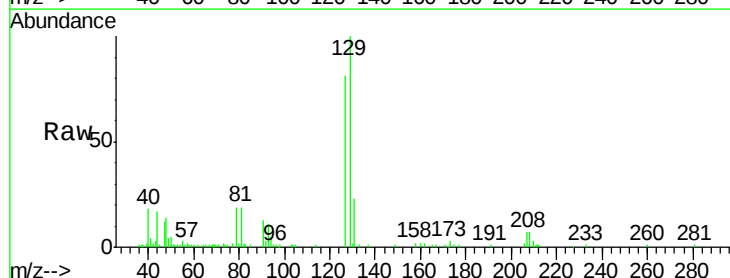
Manual Integrations
APPROVED

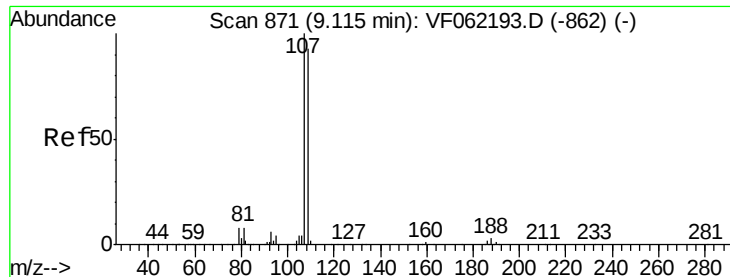
MMDadoda
4/19/2019 10:52:23 AM



#60
Dibromochloromethane
Concen: 10.824 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.02 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion: 129 Resp: 47706
Ion Ratio Lower Upper
129 100
127 76.8 39.0 117.0





#61

1,2-Dibromoethane

Concen: 10.820 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 107 Resp: 36128

Ion Ratio Lower Upper

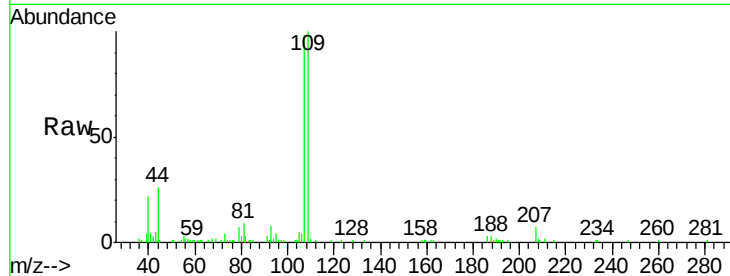
107 100

109 99.1 74.3 111.5

Manual Integrations
APPROVED

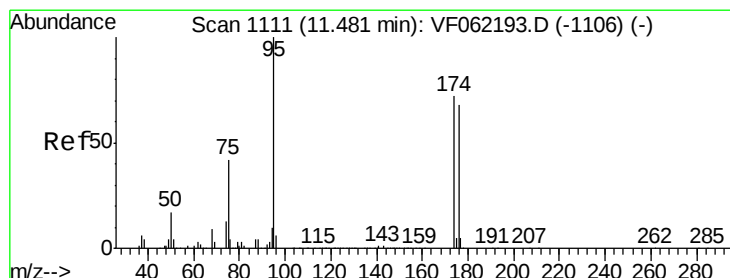
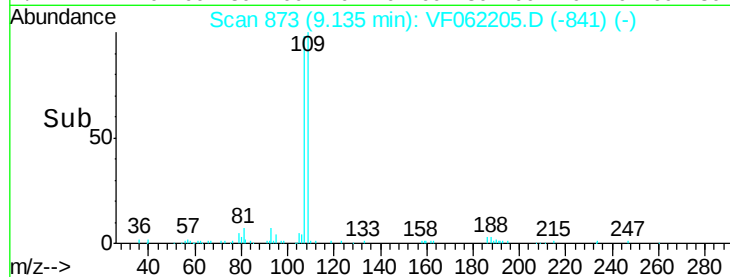
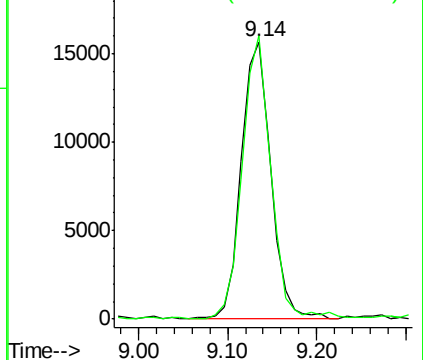
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 56.214 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

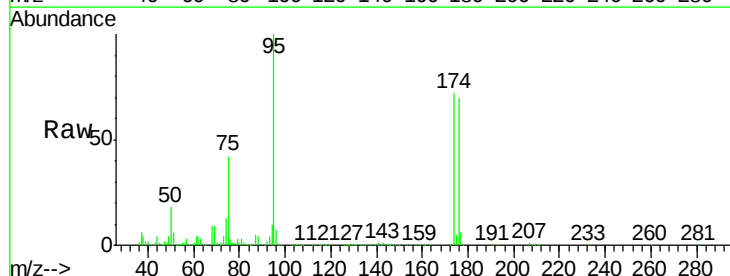
Tgt Ion: 95 Resp: 305586

Ion Ratio Lower Upper

95 100

174 82.6 0.0 159.4

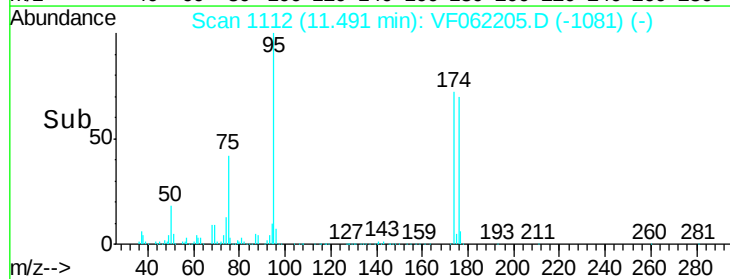
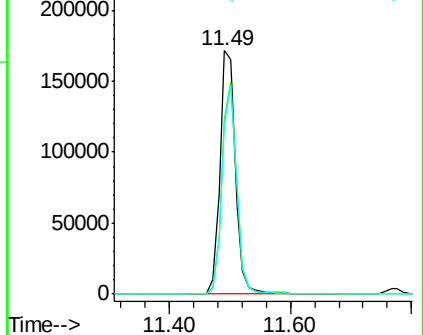
176 81.1 0.0 155.4

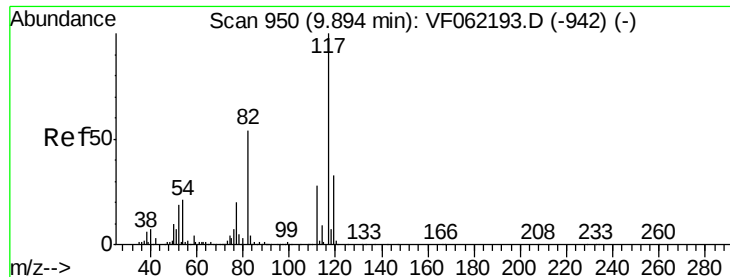


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

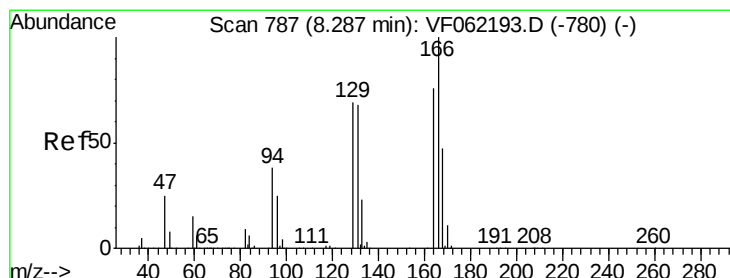
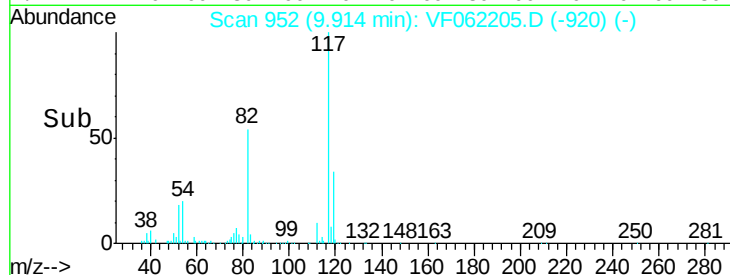
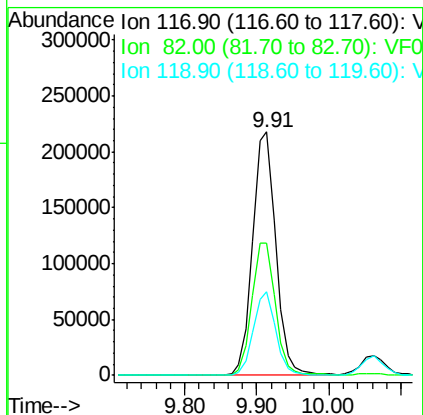
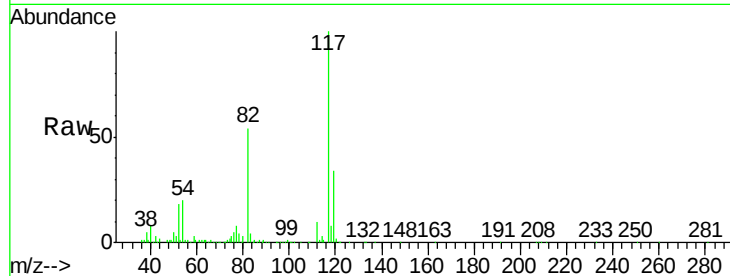
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	117	Resp:	493183
Ion Ratio	Lower	Upper	
117	100		
82	54.3	43.2	64.8
119	34.5	26.2	39.4

Manual Integrations
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#64

Tetrachloroethene

Concen: 11.219 ug/l

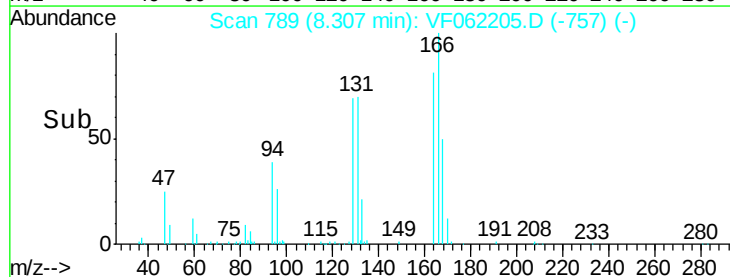
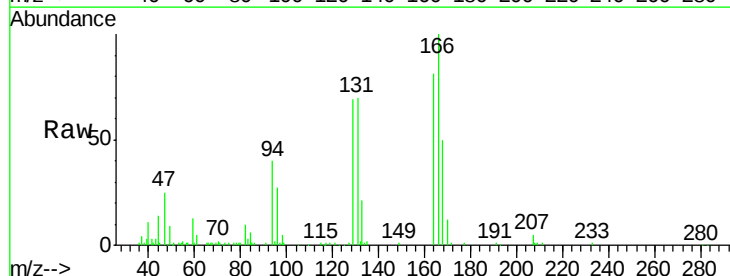
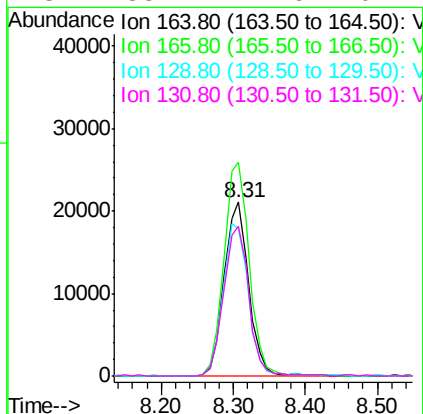
RT: 8.31 min Scan# 789

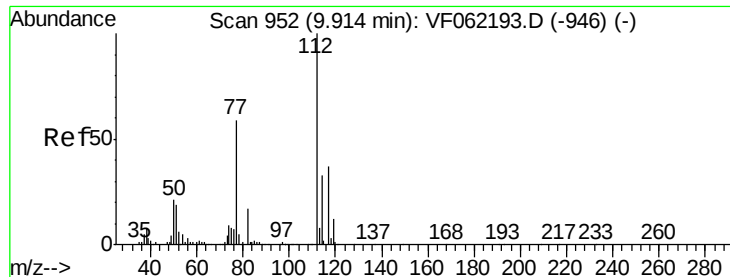
Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	164	Resp:	49947
Ion Ratio	Lower	Upper	
164	100		
166	122.8	104.7	157.1
129	84.9	72.6	109.0
131	85.7	71.6	107.4





#65

Chlorobenzene

Concen: 11.079 ug/l

RT: 9.93 min Scan# 954

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:112 Resp: 116503

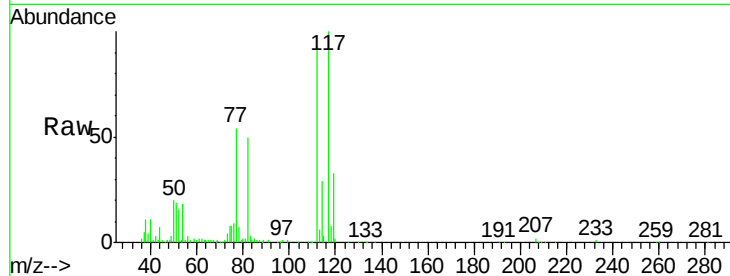
Ion Ratio Lower Upper

112 100

114 31.5 26.1 39.1

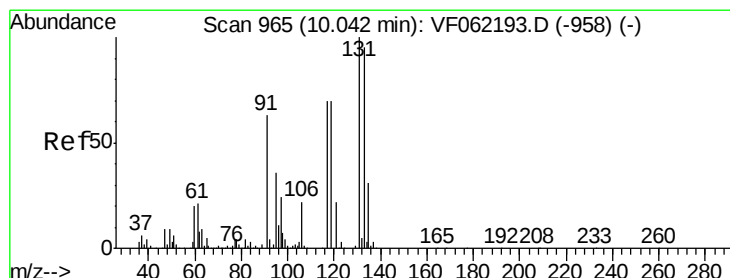
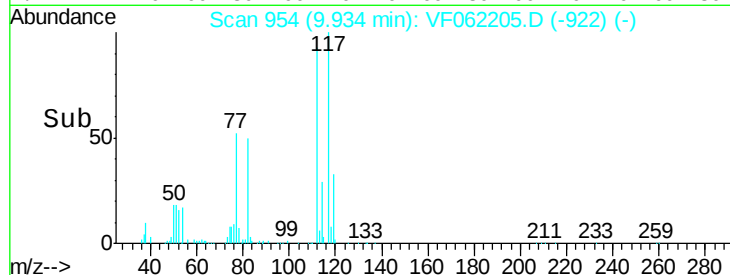
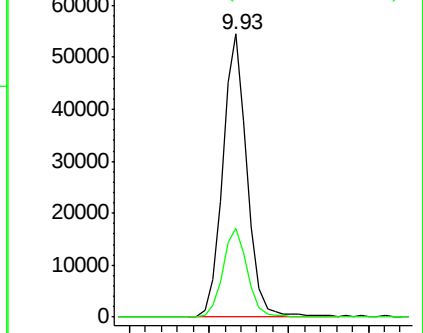
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 10.709 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

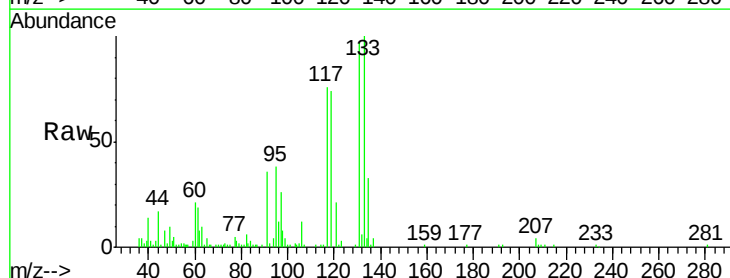
Tgt Ion:131 Resp: 52739

Ion Ratio Lower Upper

131 100

133 96.9 47.7 143.1

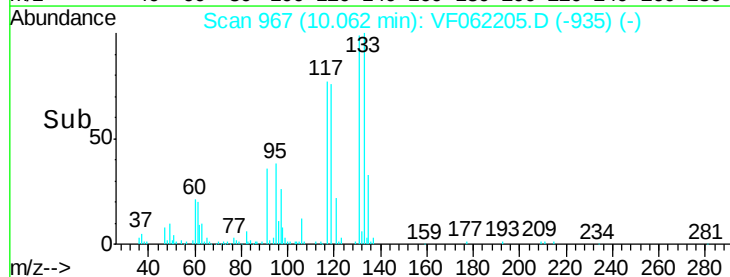
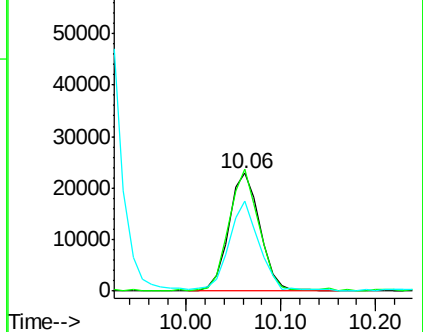
119 73.1 34.6 103.9

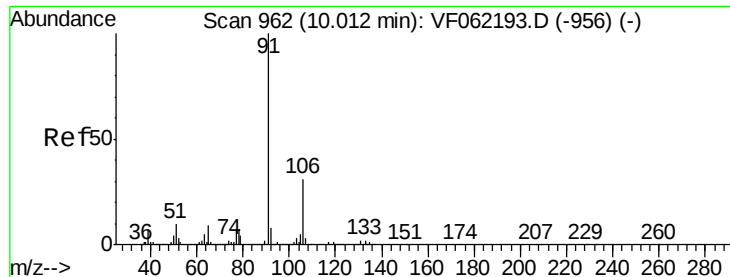


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 10.650 ug/l

RT: 10.03 min Scan# 964

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 91 Resp: 203652

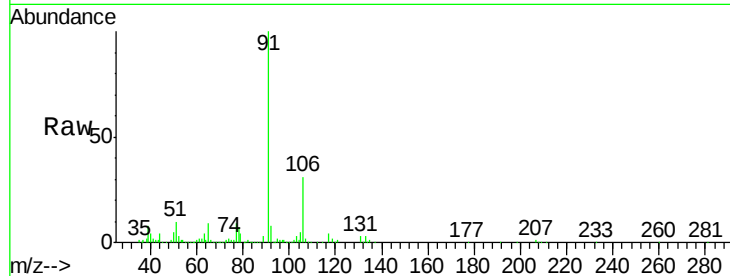
Ion Ratio Lower Upper

91 100

106 31.0 24.9 37.3

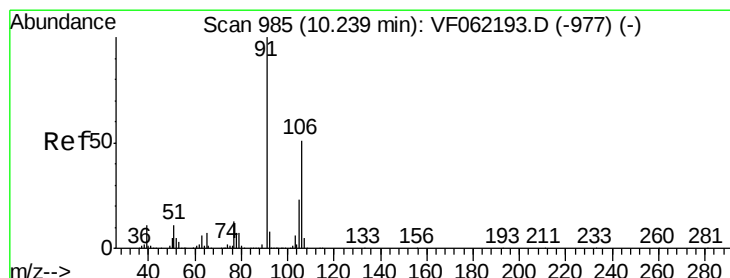
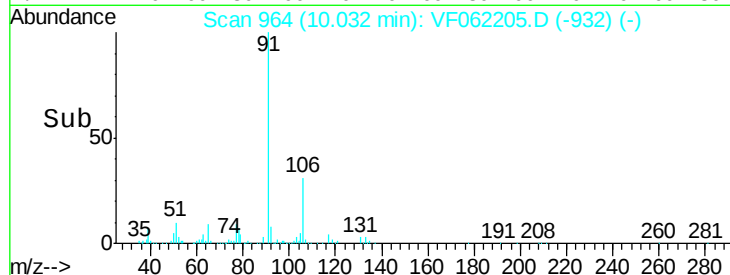
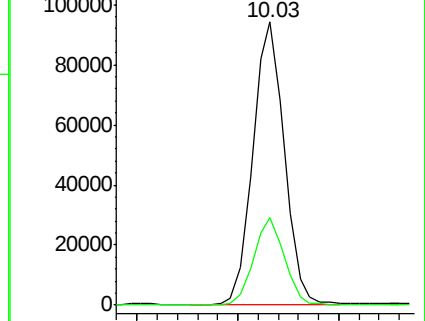
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 21.256 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.02 min

Lab File: VF062205.D

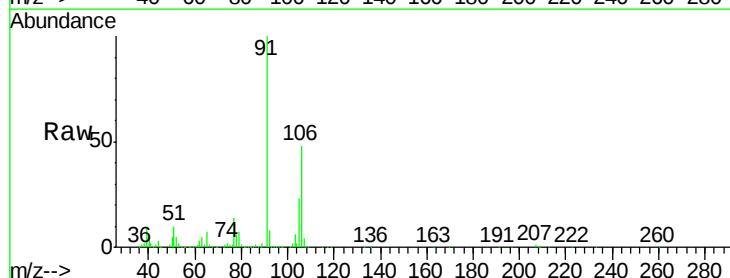
Acq: 18 Apr 2019 15:16

Tgt Ion:106 Resp: 149631

Ion Ratio Lower Upper

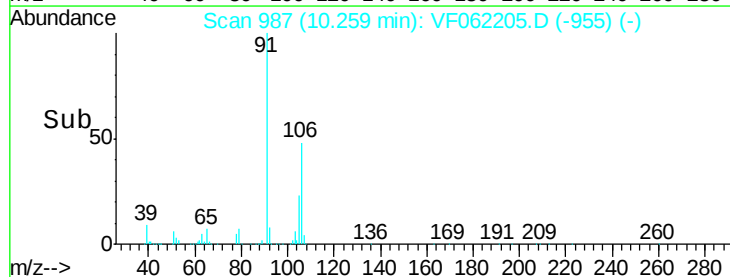
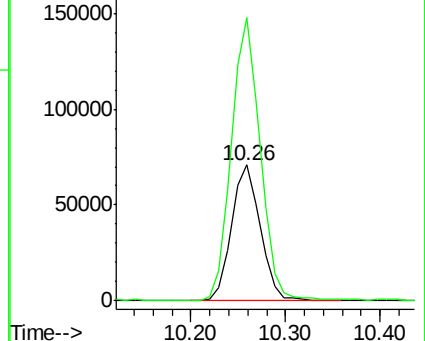
106 100

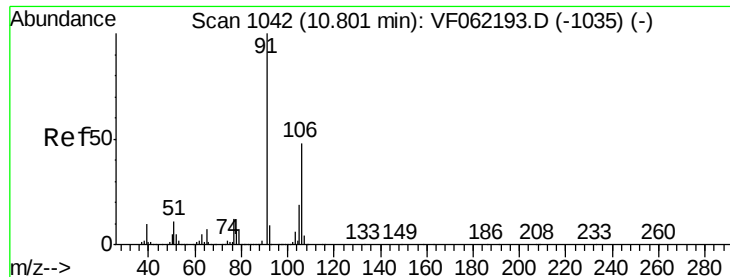
91 207.7 159.1 238.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





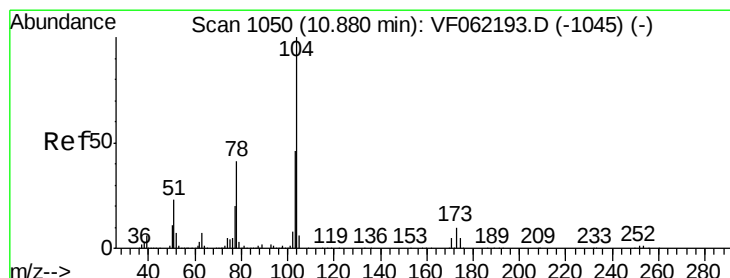
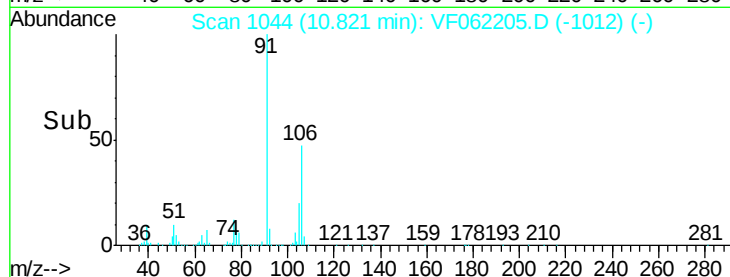
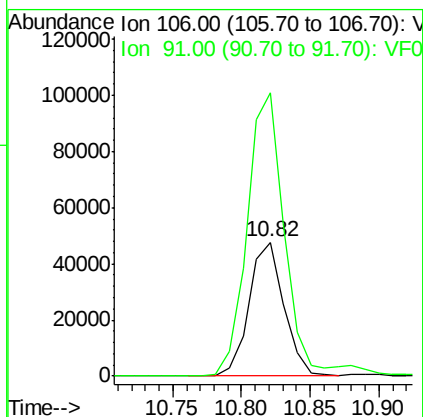
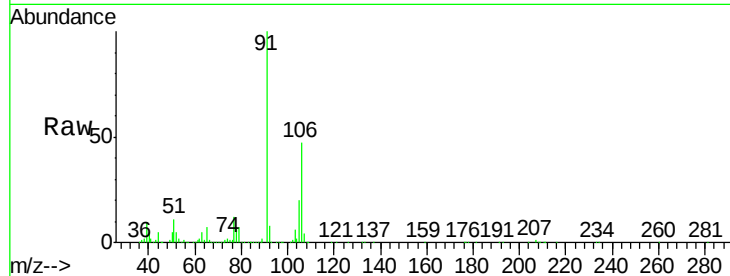
#69
o-Xylene
Concen: 10.866 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion:106 Resp: 84921
Ion Ratio Lower Upper
106 100
91 219.3 107.5 322.4

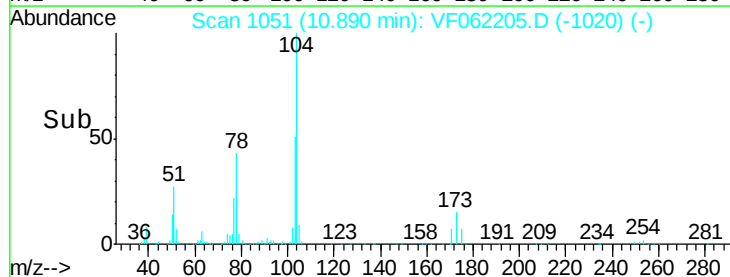
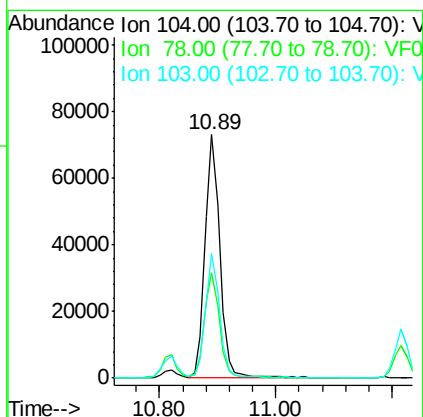
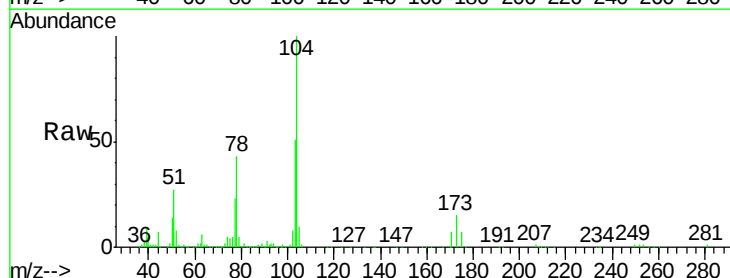
Manual Integrations
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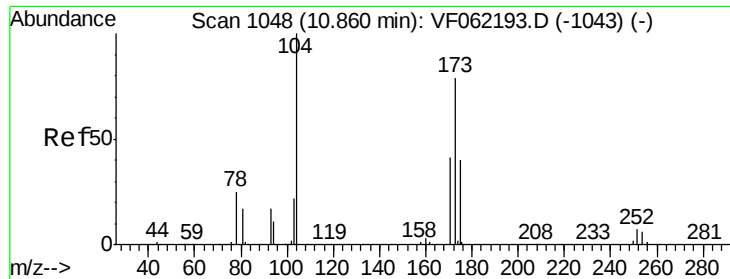
MMDadoda
4/19/2019 10:52:23 AM



#70
Styrene
Concen: 11.824 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion:104 Resp: 130416
Ion Ratio Lower Upper
104 100
78 43.3 34.5 51.7
103 48.3 37.2 55.8





#71

Bromoform

Concen: 11.588 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

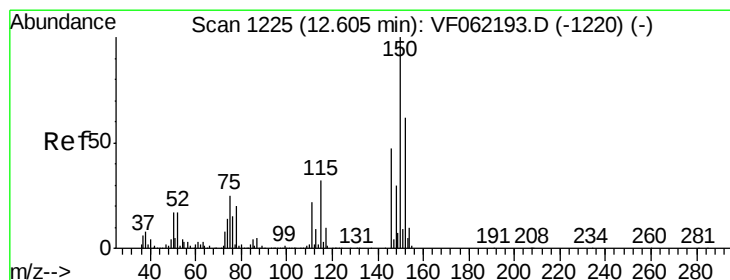
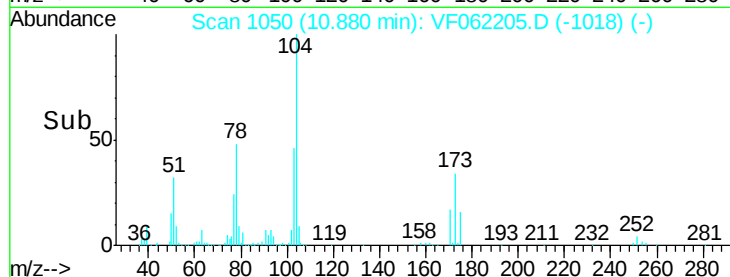
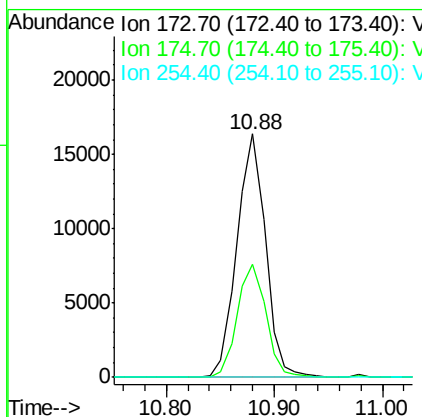
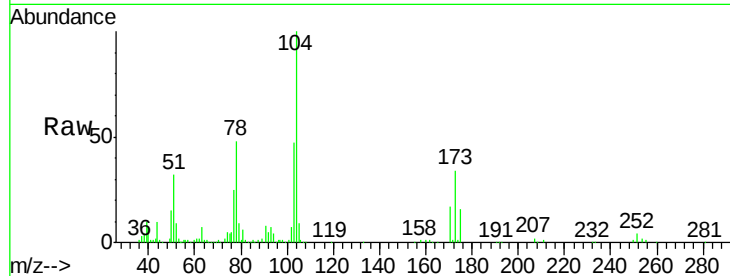
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.8	24.5	73.5
254	0.0	0.1	0.1#

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

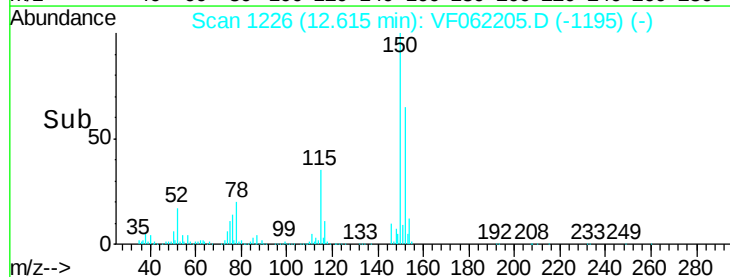
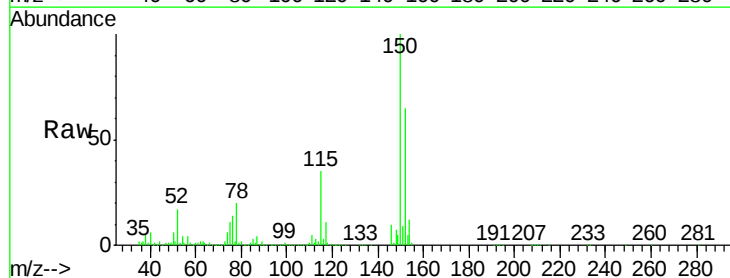
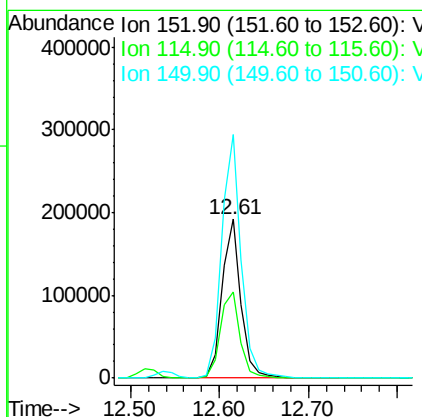
RT: 12.61 min Scan# 1226

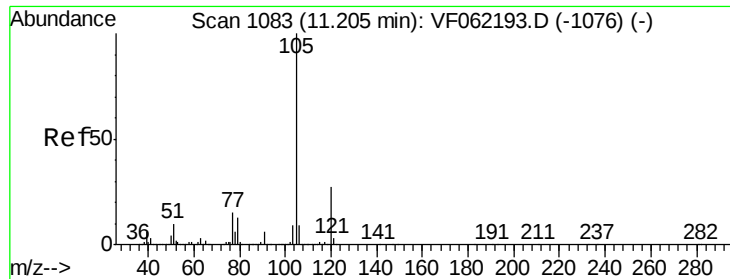
Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	27.8	83.3
150	157.7	0.0	341.8





#73

Isopropylbenzene

Concen: 10.176 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:105 Resp: 250676

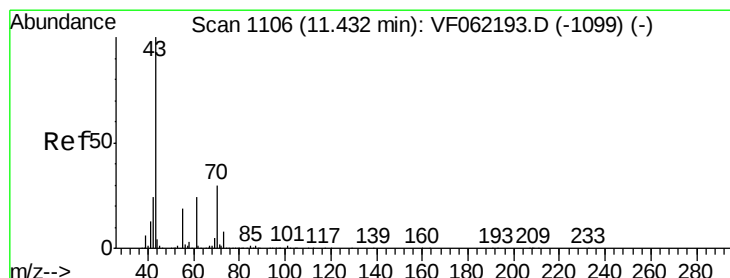
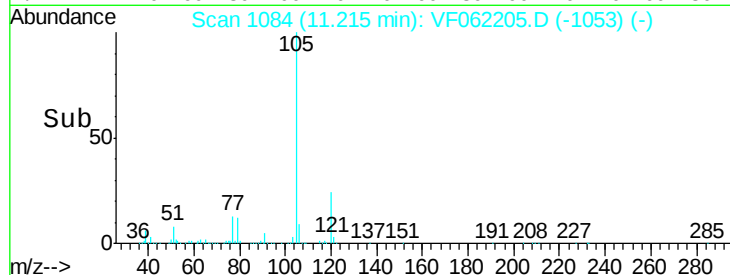
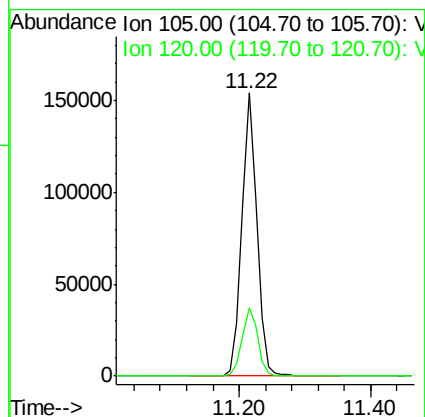
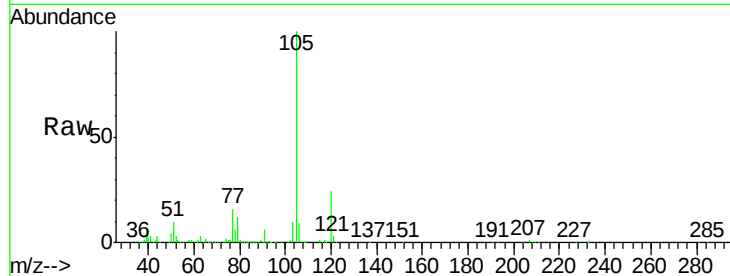
Ion Ratio Lower Upper

105 100

120 24.8 13.0 38.9

Manual Integrations
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#74

N-ethyl acetate

Concen: 10.338 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion: 43 Resp: 67305

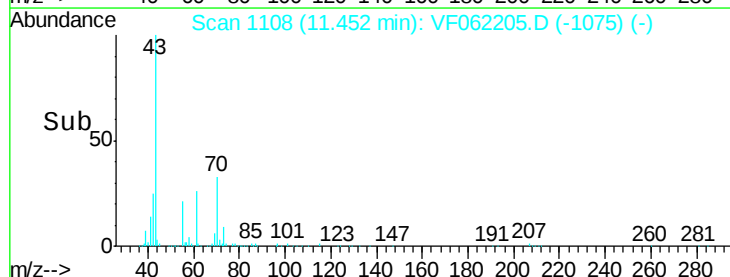
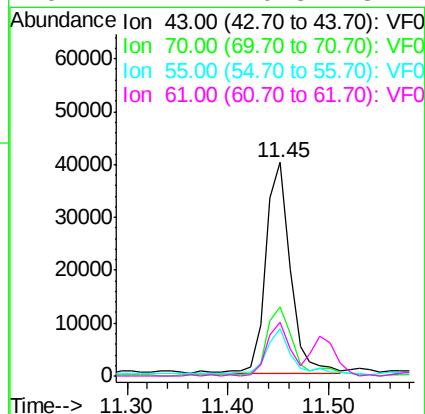
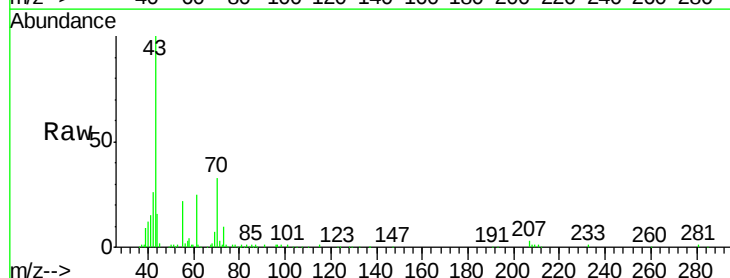
Ion Ratio Lower Upper

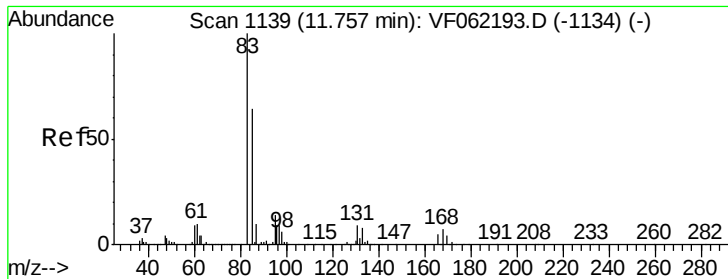
43 100

70 36.1 27.0 40.4

55 22.2 15.7 23.5

61 24.2 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 10.042 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

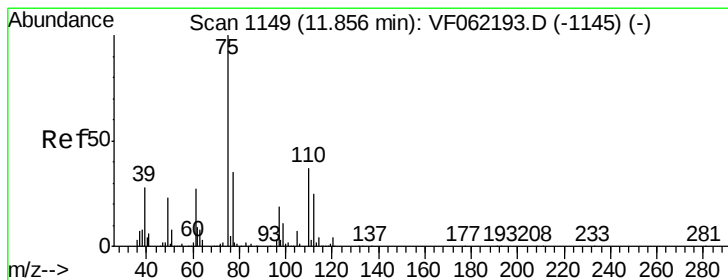
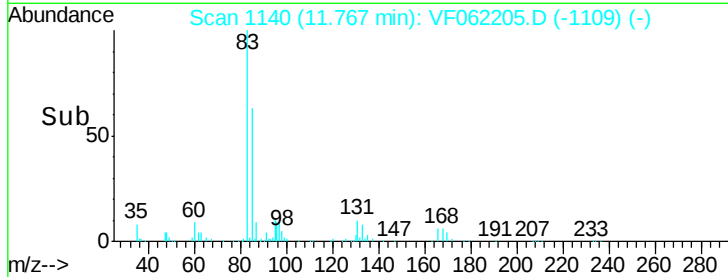
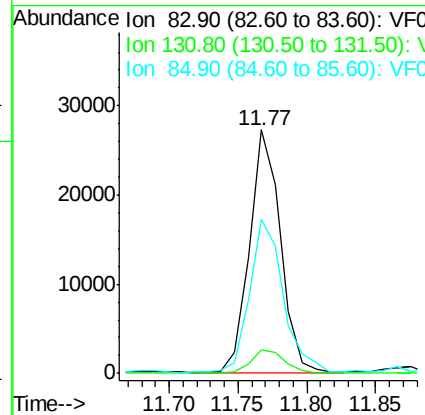
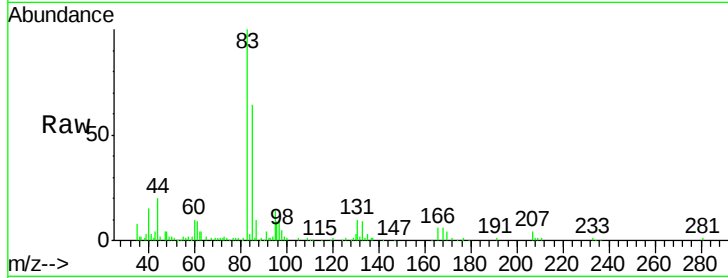
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	83	Resp:	42542
Ion Ratio	Lower	Upper	
83	100		
131	10.7	4.5	13.5
85	69.1	34.7	104.1

Manual Integrations
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MMDadoda
4/19/2019 10:52:23 AM



#76

1,2,3-Trichloropropane

Concen: 9.872 ug/l

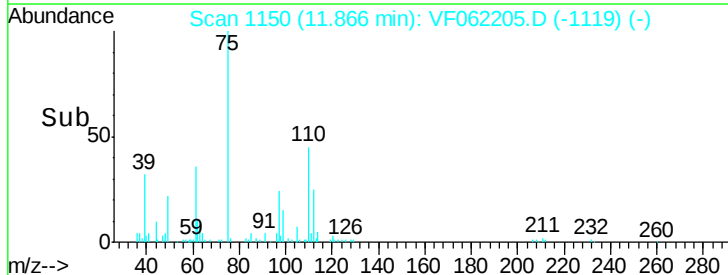
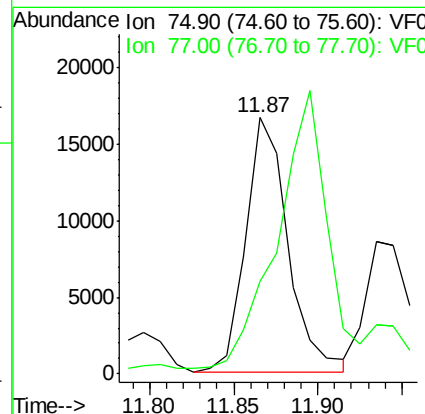
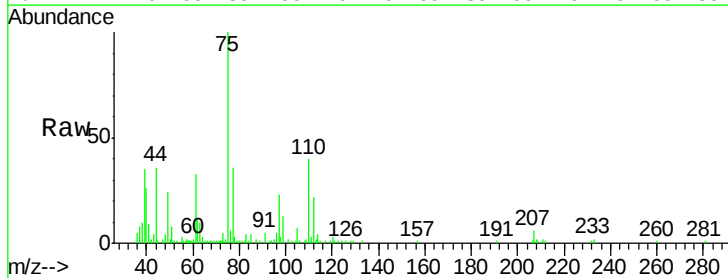
RT: 11.87 min Scan# 1150

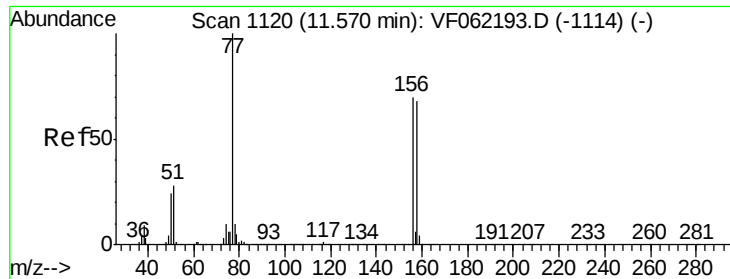
Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion:	75	Resp:	28772
Ion Ratio	Lower	Upper	
75	100		
77	0.0	7.4	22.2#





#77

Bromobenzene

Concen: 10.609 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

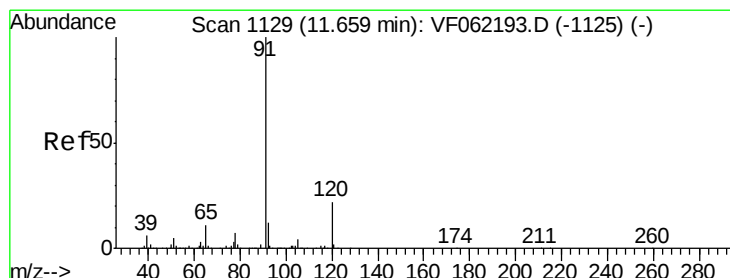
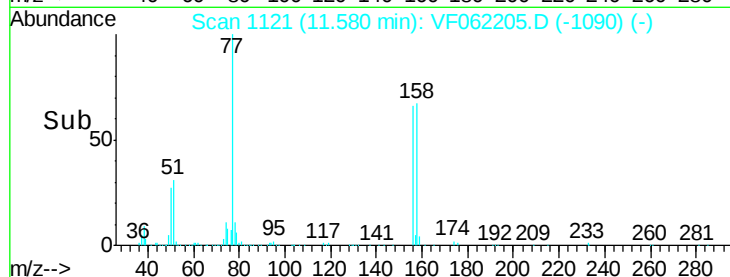
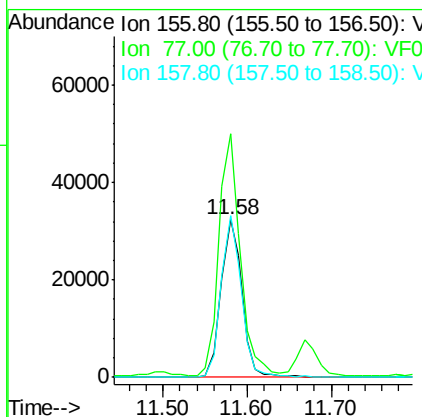
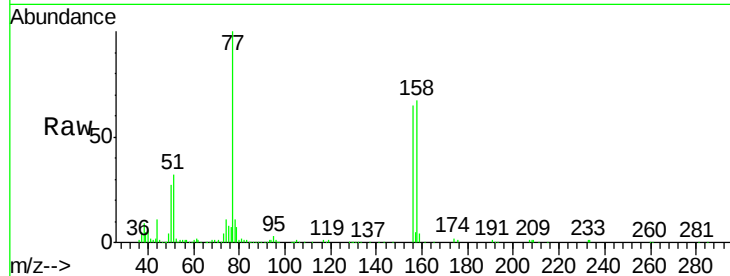
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		55983		
77	156.7	80.9	242.7		
158	99.1	49.8	149.4		

Manual Integrations
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#78

n-propylbenzene

Concen: 10.872 ug/l

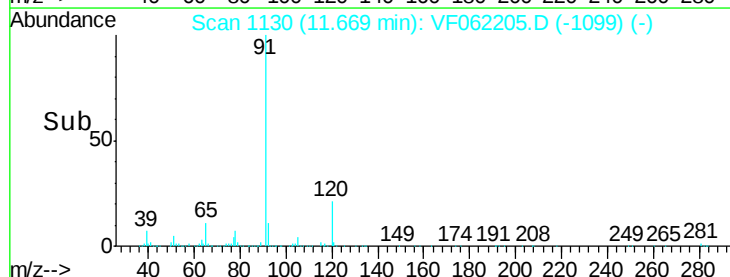
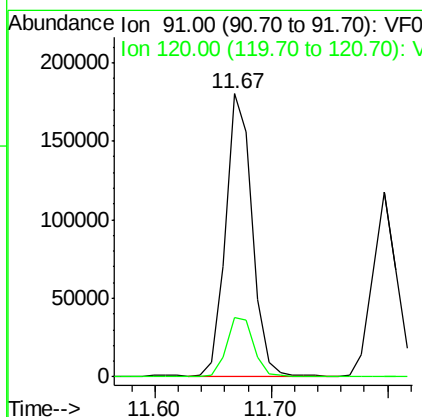
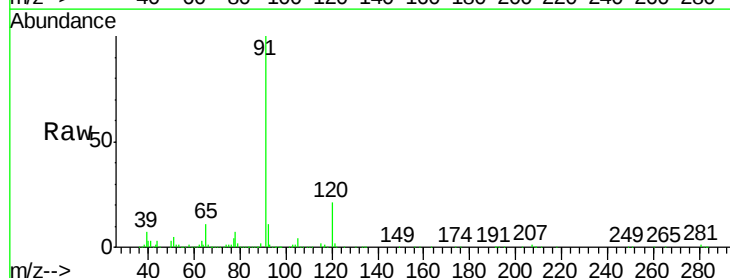
RT: 11.67 min Scan# 1130

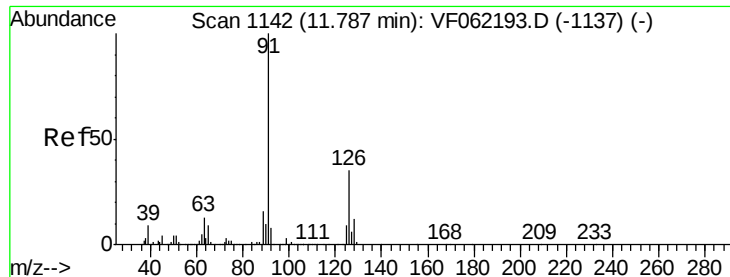
Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		282513		
120	22.0	11.2	33.6		





#79

2-Chlorotoluene

Concen: 10.766 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 91 Resp: 169711

Ion Ratio Lower Upper

91 100

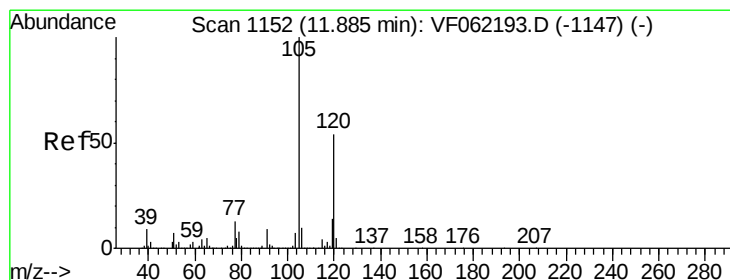
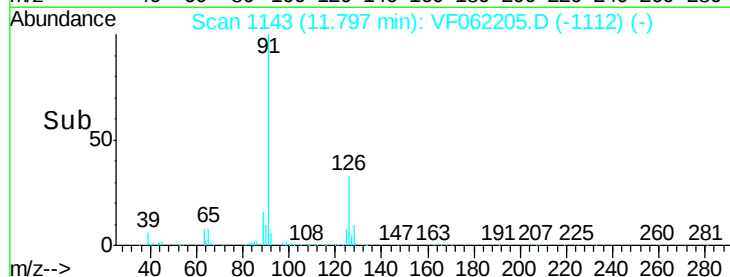
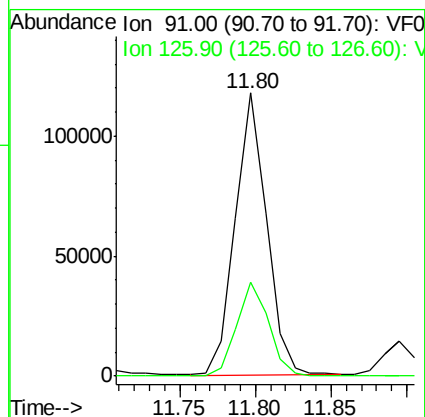
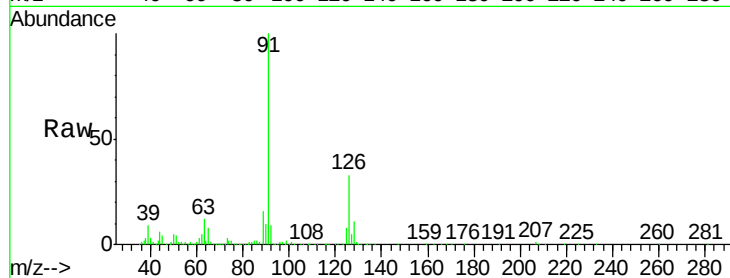
126 34.4 16.9 50.6

Manual Integrations

APPROVED

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#80

1,3,5-Trimethylbenzene

Concen: 10.616 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062205.D

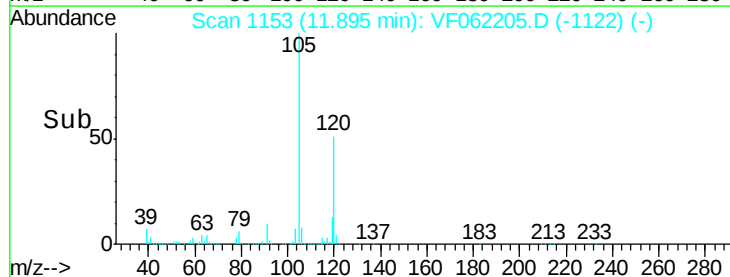
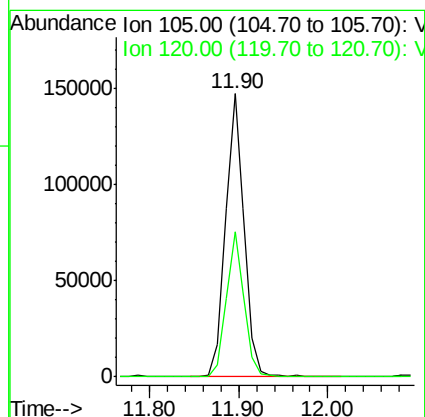
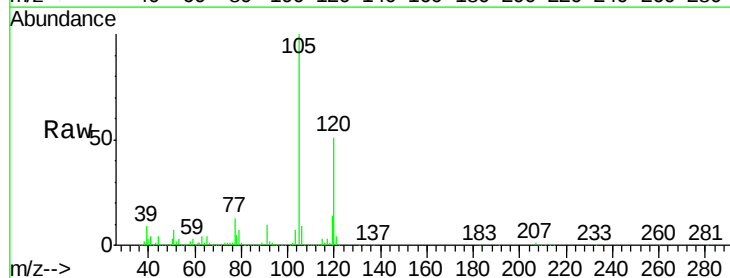
Acq: 18 Apr 2019 15:16

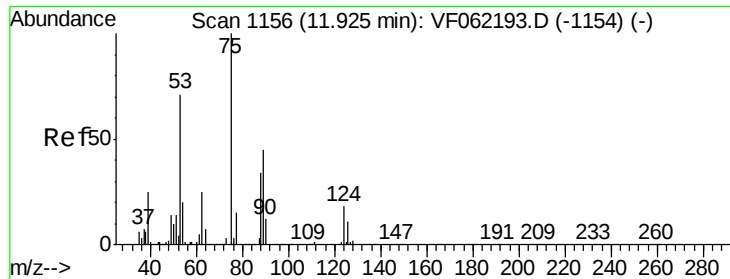
Tgt Ion: 105 Resp: 217805

Ion Ratio Lower Upper

105 100

120 49.6 26.2 78.5





#81

trans-1,4-Dichloro-2-butene

Concen: 11.151 ug/l

RT: 11.93 min Scan# 1157

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 75 Resp: 16576

Ion Ratio Lower Upper

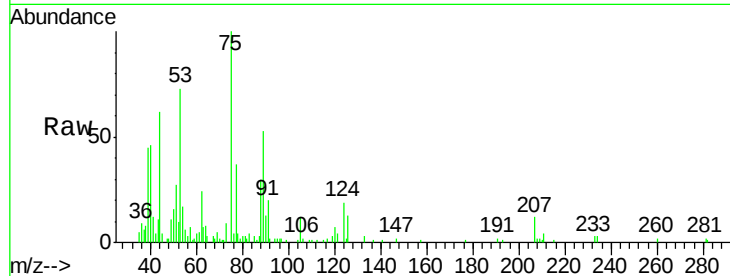
75 100

53 62.8 50.2 75.4

89 0.0 0.0 0.0

Manual Integrations
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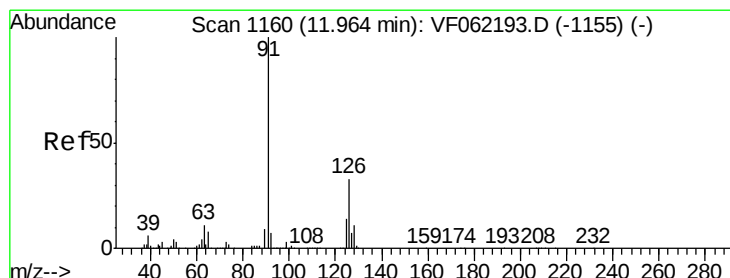
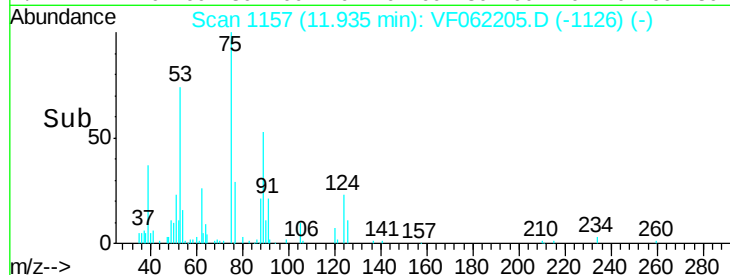
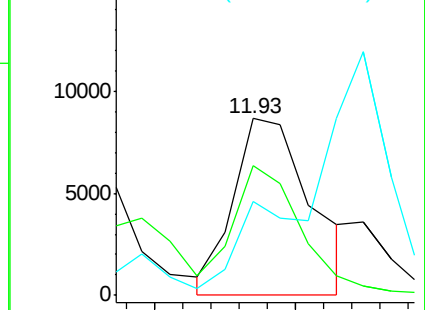
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Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#82

4-Chlorotoluene

Concen: 10.651 ug/l

RT: 11.97 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VF062205.D

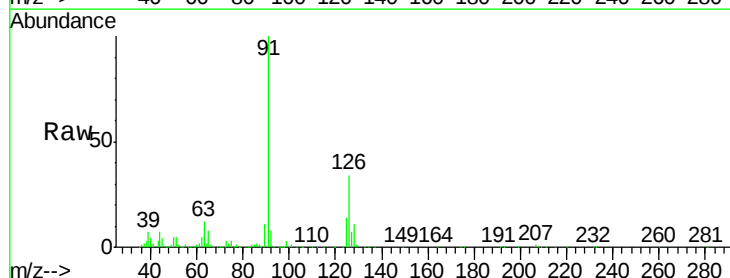
Acq: 18 Apr 2019 15:16

Tgt Ion: 91 Resp: 162261

Ion Ratio Lower Upper

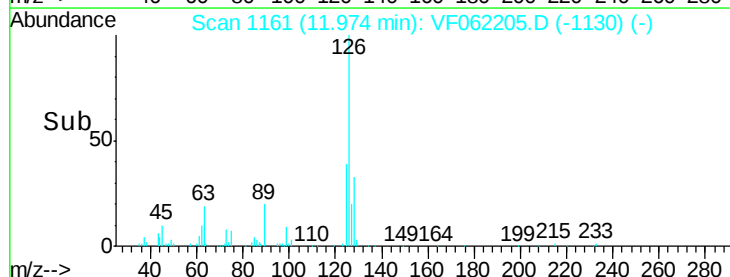
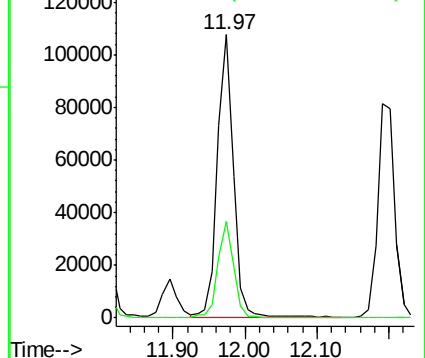
91 100

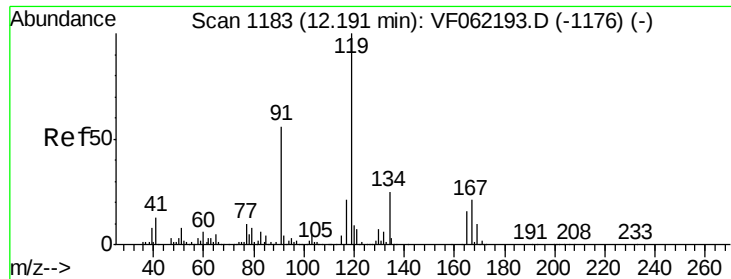
126 34.5 16.9 50.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V





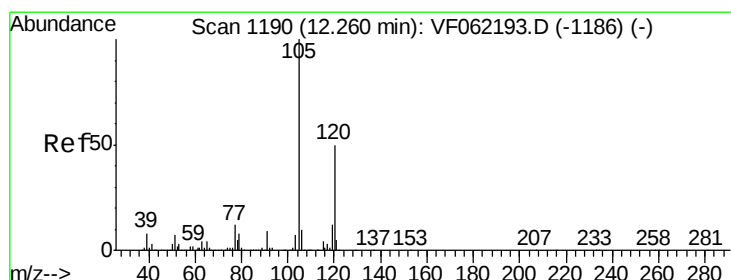
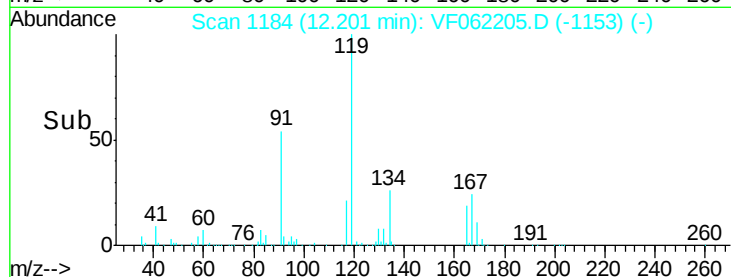
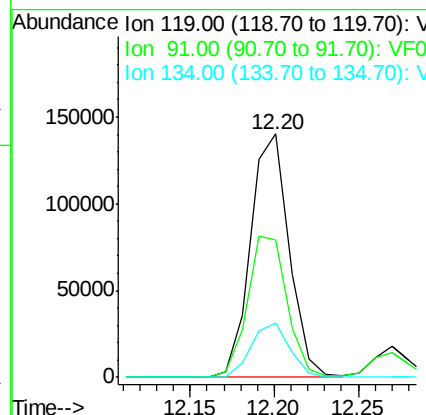
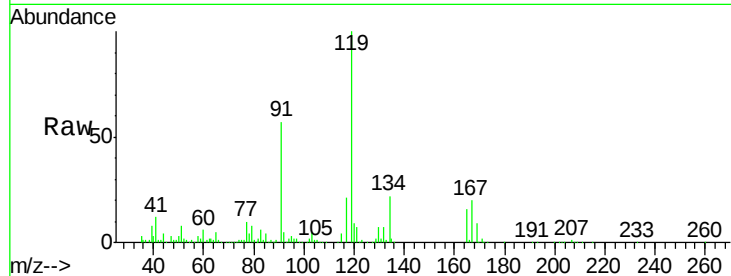
#83
tert-Butylbenzene
Concen: 10.529 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	223384		
91	59.4		29.4	88.2
134	22.4		11.8	35.3

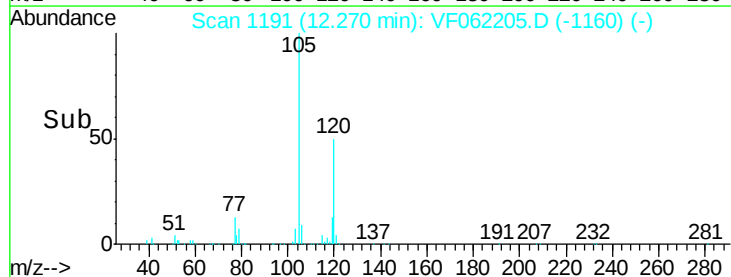
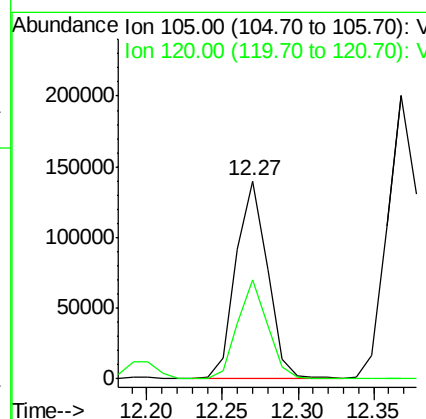
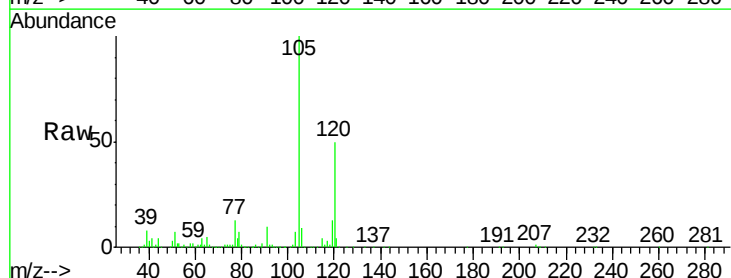
Manual Integrations
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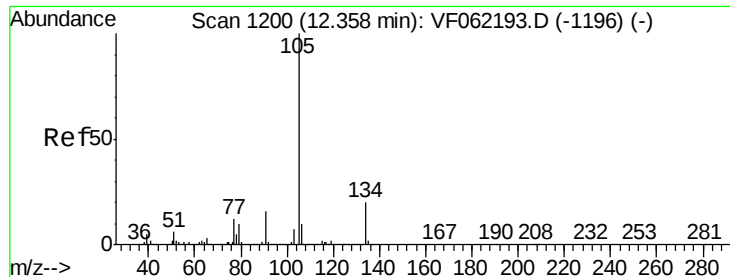
MMDadoda
4/19/2019 10:52:23 AM



#84
1,2,4-Trimethylbenzene
Concen: 10.203 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	202575		
120	47.8		24.0	72.0





#85

sec-Butylbenzene

Concen: 10.613 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:105 Resp: 292331

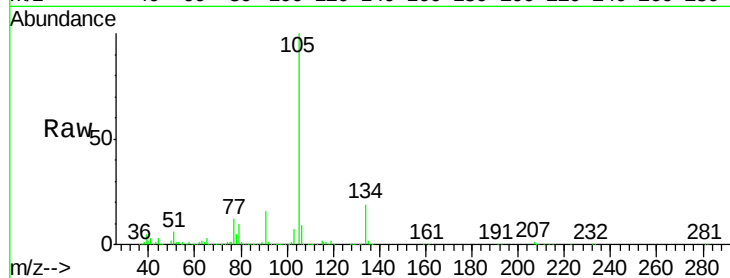
Ion Ratio Lower Upper

105 100

134 18.6 9.7 29.1

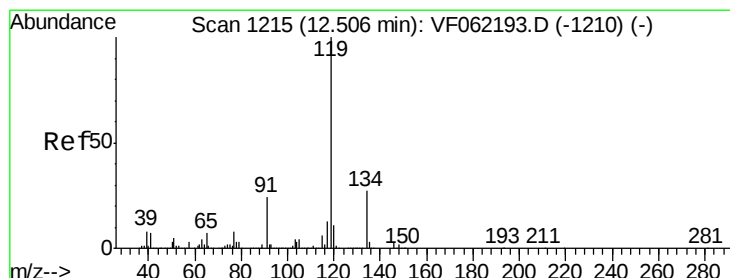
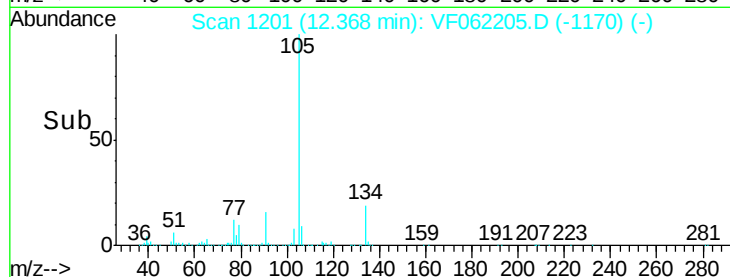
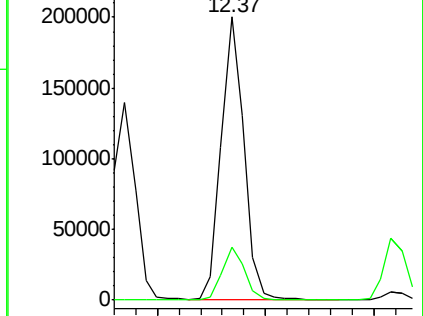
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 10.820 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

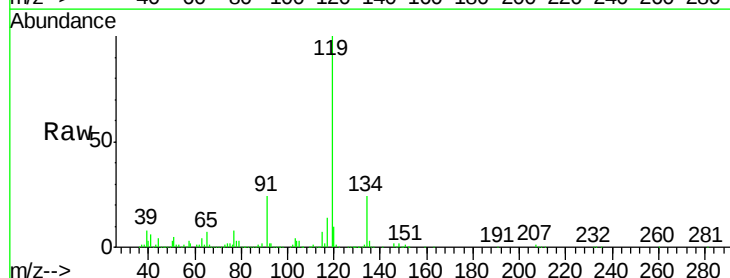
Tgt Ion:119 Resp: 252821

Ion Ratio Lower Upper

119 100

134 25.2 13.2 39.5

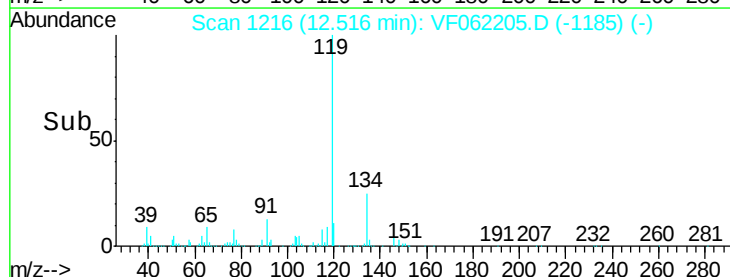
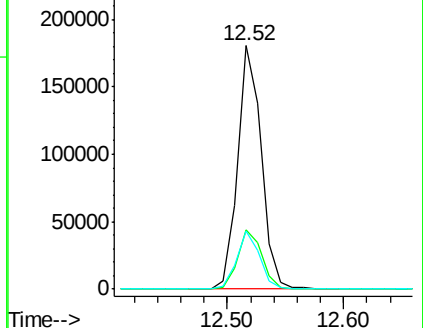
91 23.2 11.7 35.1

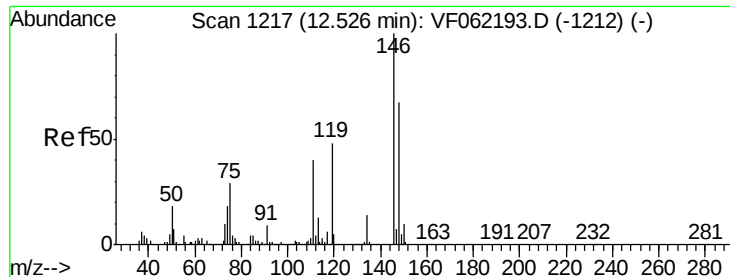


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





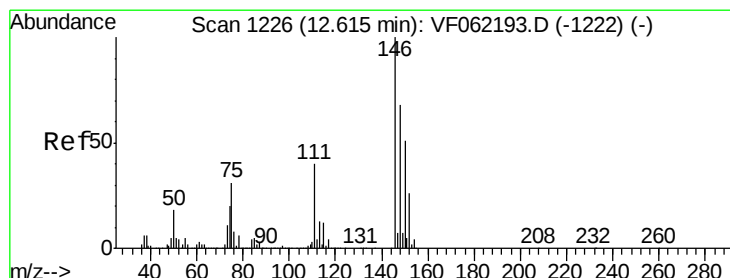
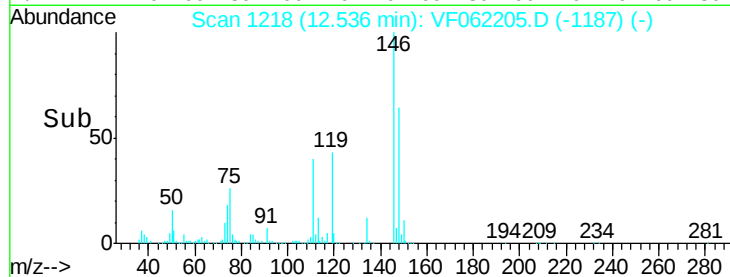
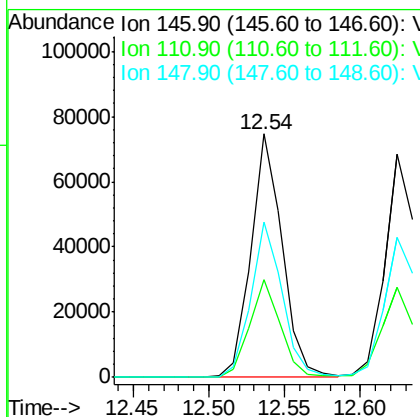
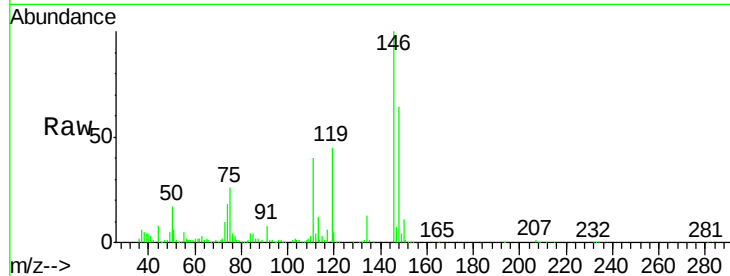
#87
 1,3-Dichlorobenzene
 Concen: 11.035 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.7	59.0
148	63.9	32.9	98.6

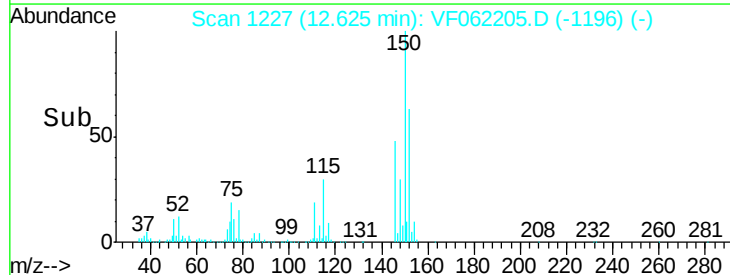
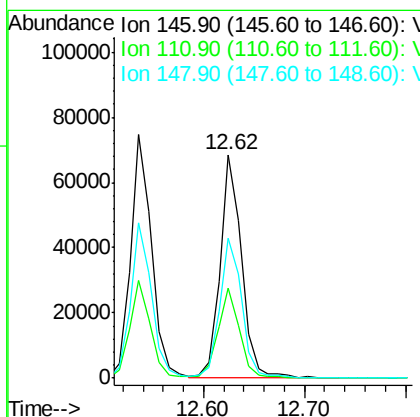
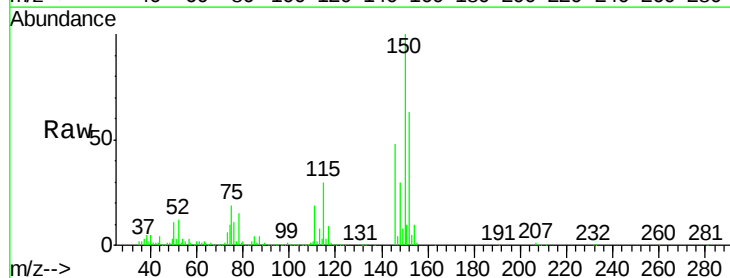
Manual Integrations
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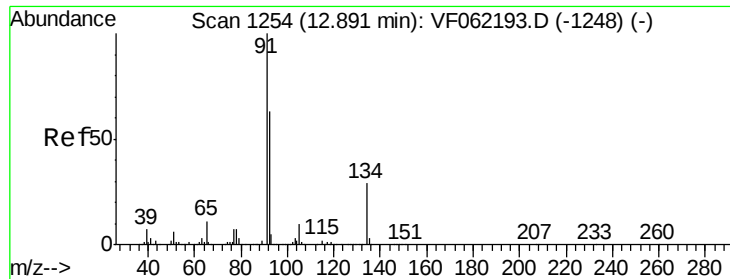
MMDadoda
 4/19/2019 10:52:23 AM



#88
 1,4-Dichlorobenzene
 Concen: 10.784 ug/l
 RT: 12.62 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.0	60.0
148	64.6	33.6	100.8





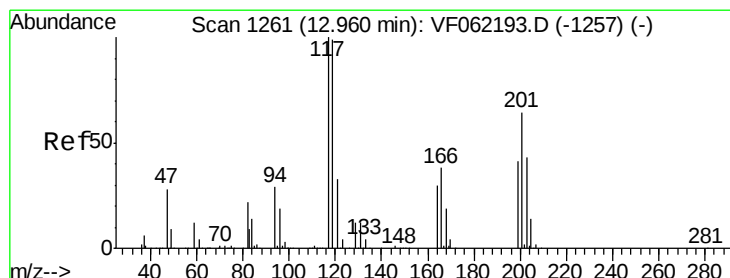
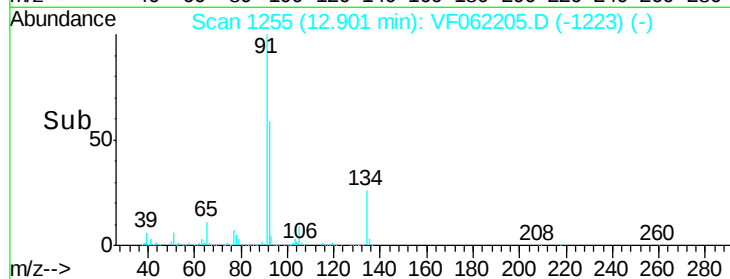
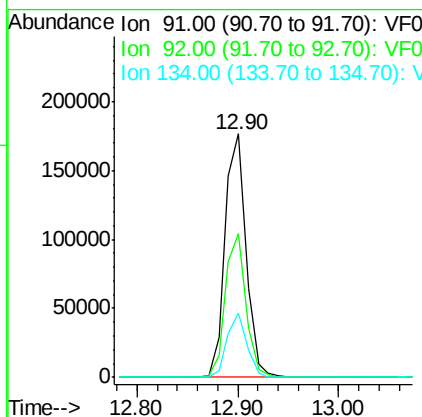
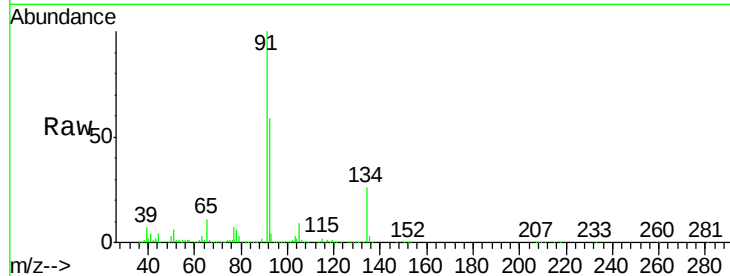
#89
n-Butylbenzene
Concen: 11.370 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.0	31.2	93.6
134	25.0	13.1	39.1

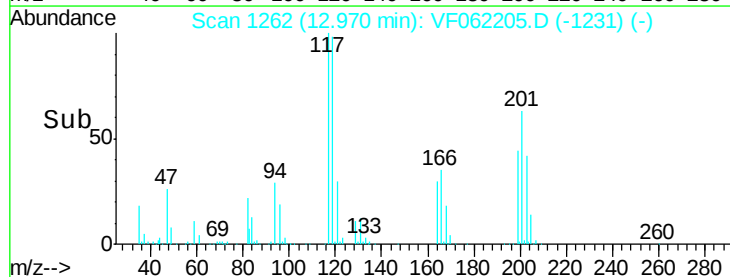
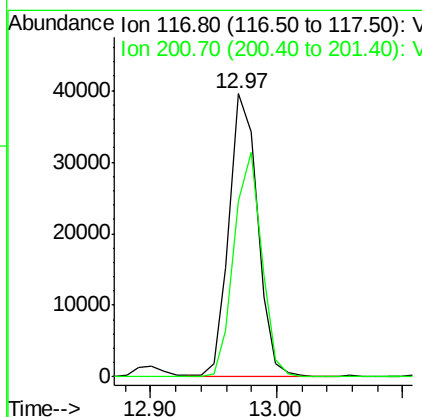
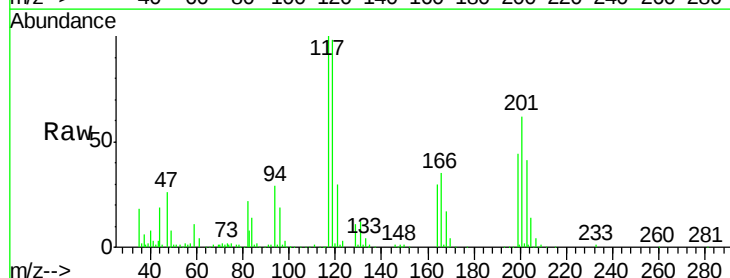
Manual Integrations
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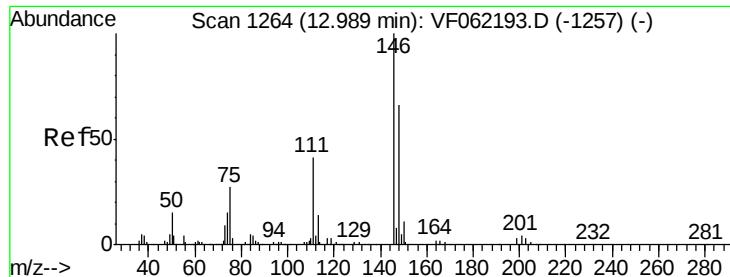
MMDadoda
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#90
Hexachloroethane
Concen: 10.356 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	76.5	37.7	113.1





#91

1,2-Dichlorobenzene

Concen: 11.136 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF062205.D

Acq: 18 Apr 2019 15:16

Instrument :

MSVOA_F

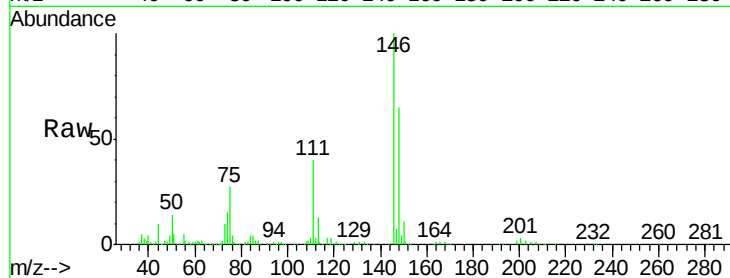
ClientSampleId :

LOQ-SOIL-02-QT2-2019

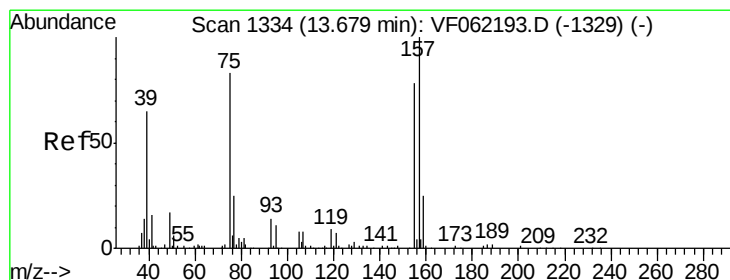
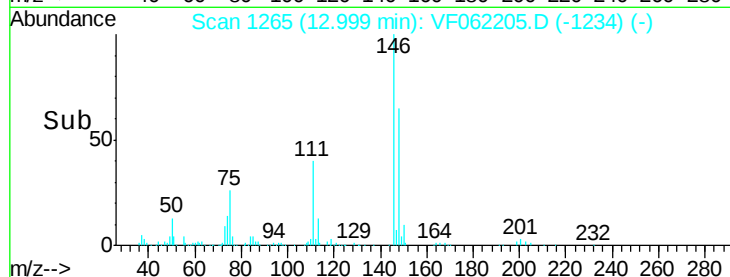
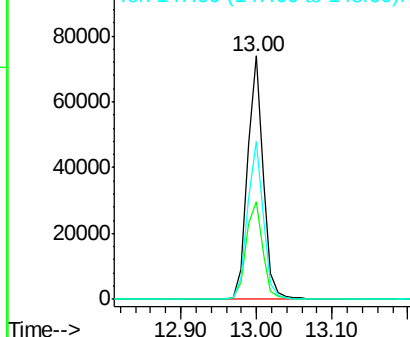
Tot Ion:	146	Resp:	105292
Ion Ratio	Lower	Upper	
146	100		
111	42.6	20.8	62.5
148	65.4	33.0	99.0

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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 10.138 ug/l

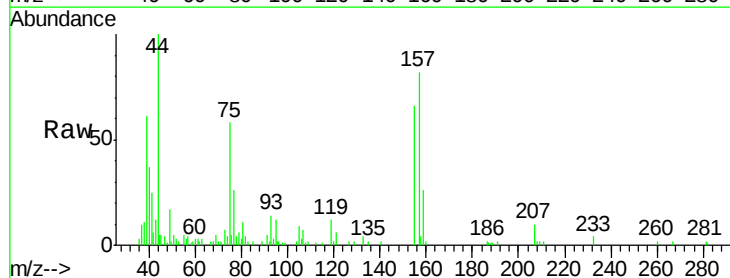
RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

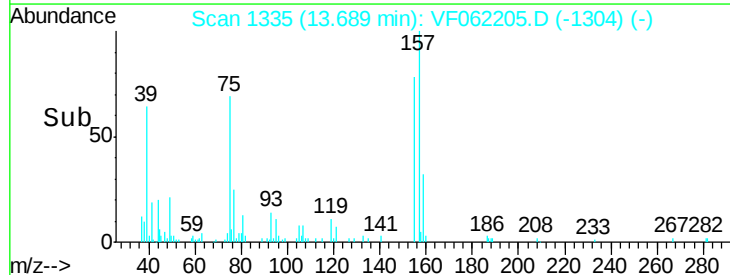
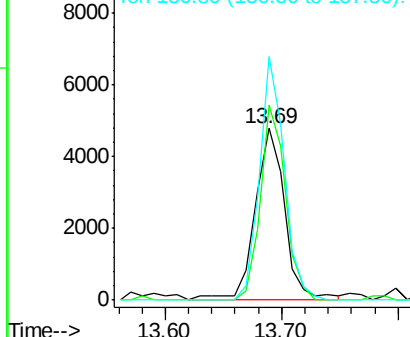
Lab File: VF062205.D

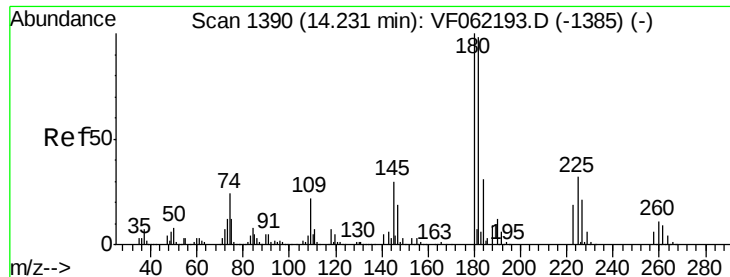
Acq: 18 Apr 2019 15:16

Tgt Ion:	75	Resp:	8438
Ion Ratio	Lower	Upper	
75	100		
155	95.4	47.6	142.8
157	117.9	61.3	183.9



Abundance Ion 74.90 (74.60 to 75.60): VF0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





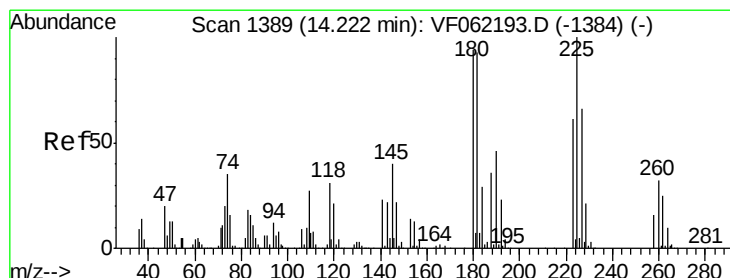
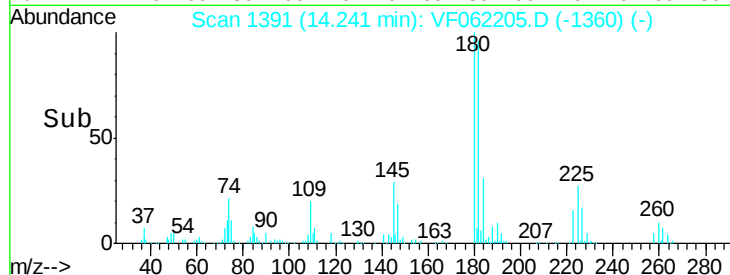
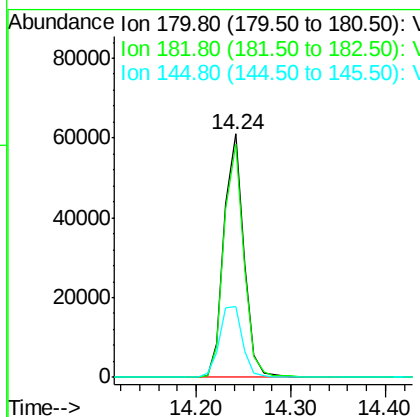
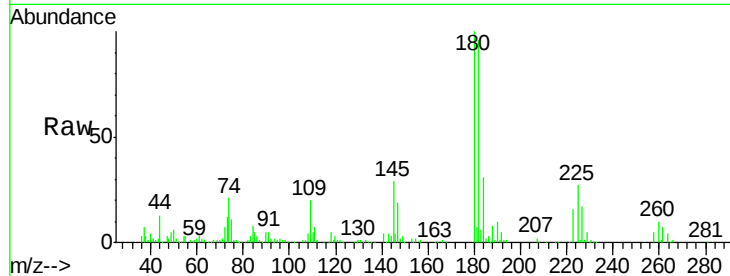
#93
 1,2,4-Trichlorobenzene
 Concen: 11.276 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.9	49.3	147.9	
145	33.7	18.1	54.4	

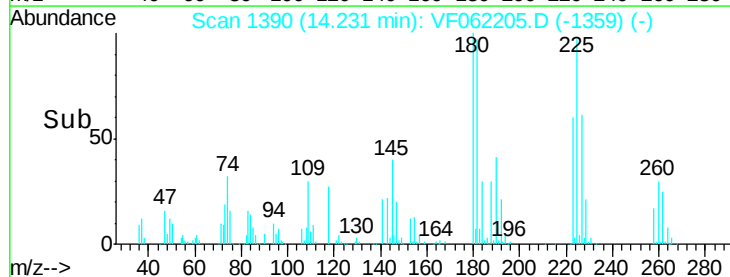
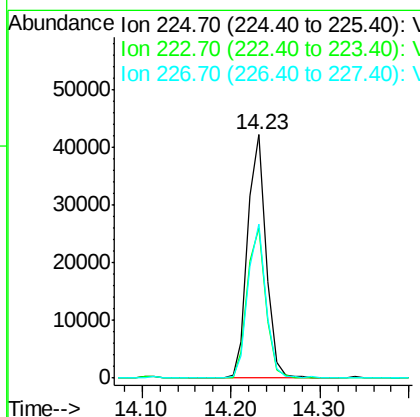
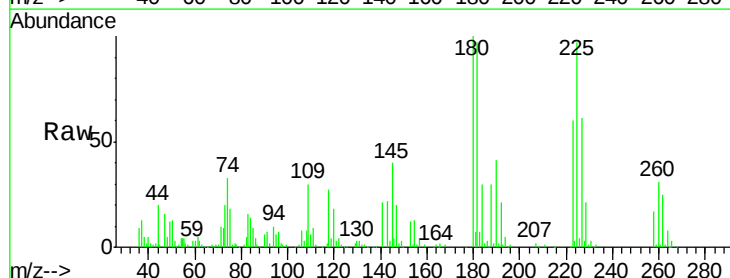
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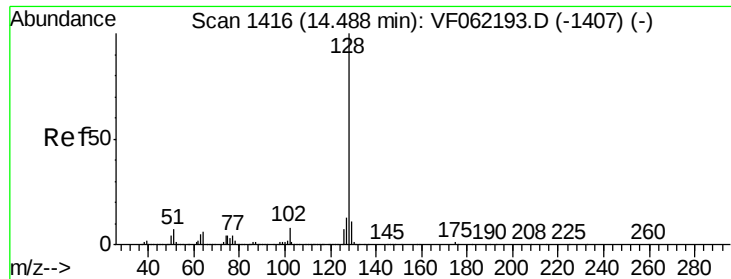
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#94
 Hexachlorobutadiene
 Concen: 11.069 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062205.D
 Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.9	31.0	93.0	
227	62.1	32.4	97.0	





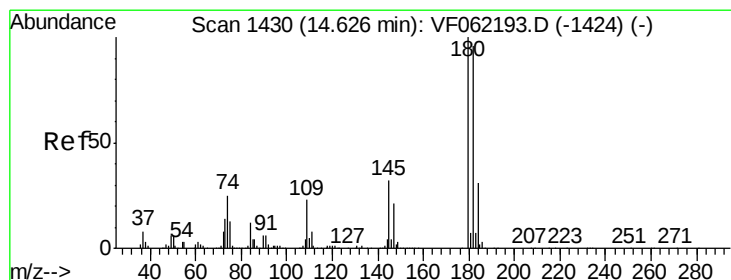
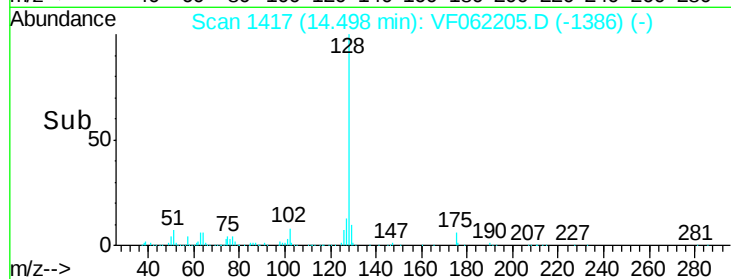
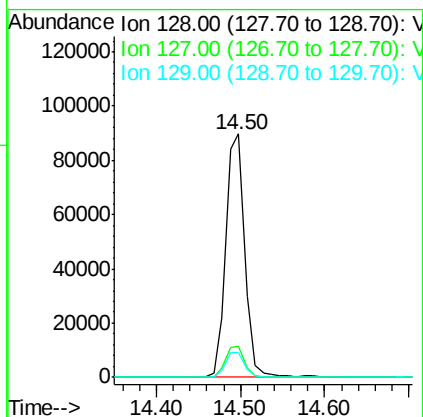
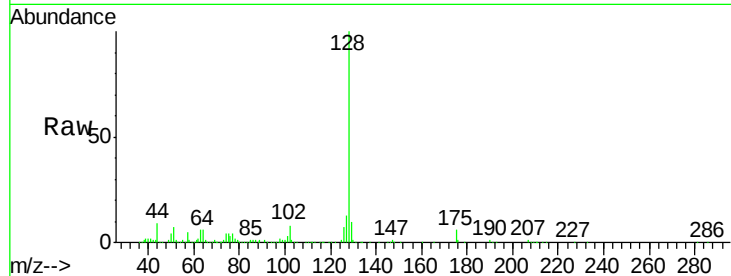
#95
Naphthalene
Concen: 10.110 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.7	9.2	13.8

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#96
1,2,3-Trichlorobenzene
Concen: 10.962 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.01 min
Lab File: VF062205.D
Acq: 18 Apr 2019 15:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.4	145.3
145	30.6	15.6	46.8

