

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061832.D
 Acq On : 4 Mar 2019 21:48
 Operator : VA/AP
 Sample : K1560-012.5PPBLOD
 Misc : 5.00u/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:48:21 AM

Quant Time: Mar 05 06:08:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	293962	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	483620	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	381919	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	226037	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	126489	59.09	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	118.18%	
35) Dibromofluoromethane	4.12	113	186306	55.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.40%	
50) Toluene-d8	7.55	98	489574	48.80	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.41	95	205784	52.37	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	104.74%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	11917	3.302	ug/l	96
3) Chloromethane	1.10	50	10988	3.142	ug/l #	74
4) Vinyl Chloride	1.14	62	9821	2.958	ug/l #	84
5) Bromomethane	1.33	94	7461	3.297	ug/l #	69
6) Chloroethane	1.39	64	5533	3.506	ug/l #	74
7) Trichlorofluoromethane	1.49	101	13168	3.247	ug/l	94
8) Diethyl Ether	1.63	74	3705	4.018	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	10576	3.840	ug/l	88
10) Methyl Iodide	1.90	142	17202m	3.283	ug/l	
11) Tert butyl alcohol	2.57	59	2039	16.781	ug/l #	86
12) 1,1-Dichloroethene	1.80	96	9120	3.628	ug/l	97
13) Acrolein	2.01	56	3131	20.336	ug/l	93
14) Allyl chloride	2.10	41	7536	2.721	ug/l	90
15) Acrylonitrile	2.94	53	7899	20.415	ug/l #	89
16) Acetone	2.24	43	8850	19.736	ug/l #	80
17) Carbon Disulfide	1.83	76	24608	3.144	ug/l	97
18) Methyl Acetate	2.34	43	3997	Below Cal		99
19) Methyl tert-butyl Ether	2.43	73	14820	3.485	ug/l #	91
20) Methylene Chloride	2.18	84	17534m	1.981	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	8932	3.775	ug/l	95
22) Diisopropyl ether	2.80	45	22684	3.149	ug/l	91
23) Vinyl Acetate	3.19	43	48743	15.144	ug/l	97
24) 1,1-Dichloroethane	2.87	63	13373	3.105	ug/l #	95
25) 2-Butanone	4.35	43	16422	18.004	ug/l	97
26) 2,2-Dichloropropane	3.61	77	5285	2.749	ug/l	91
27) cis-1,2-Dichloroethene	3.47	96	11405	3.479	ug/l	74
28) Bromochloromethane	3.71	49	5776	3.077	ug/l	88
29) Tetrahydrofuran	4.09	42	7254	18.440	ug/l	93
30) Chloroform	3.85	83	16657	3.386	ug/l	83
31) Cyclohexane	3.70	56	15940m	3.534	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	8303	2.739	ug/l #	89
36) 1,1-Dichloropropene	4.29	75	13772	3.015	ug/l	96
37) Ethyl Acetate	4.11	43	7488	3.905	ug/l #	61
38) Carbon Tetrachloride	3.98	117	9466	2.927	ug/l	85

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	14757	2.735	ug/l #	81
40) Benzene	4.63	78	31071	2.602	ug/l	97
41) Methacrylonitrile	4.75	41	3646	3.471	ug/l #	87
42) 1,2-Dichloroethane	4.95	62	8822	2.965	ug/l	88
43) Isopropyl Acetate	6.97	43	7270	3.076	ug/l	93
44) Trichloroethene	5.50	130	10136	2.731	ug/l	82
45) 1,2-Dichloropropane	6.23	63	7307	2.573	ug/l	92
46) Dibromomethane	6.08	93	4298	2.405	ug/l #	87
47) Bromodichloromethane	6.38	83	10648	2.697	ug/l	98
48) Methyl methacrylate	6.71	41	5674	3.793	ug/l	87
49) 1,4-Dioxane	6.71	88	1053	77.005	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	26214	16.047	ug/l	99
52) Toluene	7.62	92	19173	2.714	ug/l	96
53) t-1,3-Dichloropropene	8.27	75	8441	2.590	ug/l #	83
54) cis-1,3-Dichloropropene	7.30	75	11639	2.589	ug/l #	86
55) 1,1,2-Trichloroethane	8.49	97	5501	2.703	ug/l #	87
56) Ethyl methacrylate	8.62	69	6961	3.035	ug/l	92
57) 1,3-Dichloropropane	8.85	76	9717	2.919	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.28	63	3695	10.183	ug/l #	88
59) 2-Hexanone	9.49	43	21402	18.161	ug/l	84
60) Dibromochloromethane	8.71	129	6983	2.407	ug/l	100
61) 1,2-Dibromoethane	8.98	107	6031	2.695	ug/l	85
64) Tetrachloroethene	8.15	164	8858	3.018	ug/l	91
65) Chlorobenzene	9.80	112	22869	3.117	ug/l	92
66) 1,1,1,2-Tetrachloroethane	9.93	131	8153	2.868	ug/l	92
67) Ethyl Benzene	9.90	91	36558	3.006	ug/l	99
68) m/p-Xylenes	10.12	106	27611	5.926	ug/l	96
69) o-Xylene	10.71	106	14051	2.801	ug/l	89
70) Styrene	10.78	104	21741	3.079	ug/l	96
71) Bromoform	10.77	173	4096	2.726	ug/l	86
73) Isopropylbenzene	11.12	105	45615	2.931	ug/l	98
74) N-amyl acetate	11.37	43	12040	3.361	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.69	83	8108	3.135	ug/l	89
76) 1,2,3-Trichloropropane	11.79	75	5337	3.023	ug/l	98
77) Bromobenzene	11.49	156	10751	2.871	ug/l	88
78) n-propylbenzene	11.59	91	55724	3.171	ug/l	95
79) 2-Chlorotoluene	11.72	91	30278	3.014	ug/l	89
80) 1,3,5-Trimethylbenzene	11.82	105	36850	2.949	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.88	75	2543m	3.151	ug/l	
82) 4-Chlorotoluene	11.90	91	30869	3.004	ug/l	93
83) tert-Butylbenzene	12.13	119	40775	3.074	ug/l	82
84) 1,2,4-Trimethylbenzene	12.20	105	39263	3.206	ug/l	91
85) sec-Butylbenzene	12.30	105	54691	3.168	ug/l	96
86) p-Isopropyltoluene	12.46	119	46455	3.166	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	25627	3.604	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	22228	3.240	ug/l	94
89) n-Butylbenzene	12.85	91	42306	3.017	ug/l	95
90) Hexachloroethane	12.91	117	9822	2.781	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	22439	3.330	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.63	75	1162	6.160	ug/l #	39

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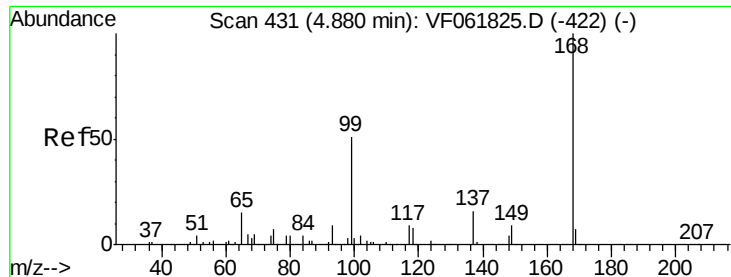
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	15820	3.349	ug/l	95
94) Hexachlorobutadiene	14.19	225	7965	2.436	ug/l	96
95) Naphthalene	14.45	128	28787	3.422	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	14459	3.315	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

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Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:168 Resp: 293962

Ion Ratio Lower Upper

168 100

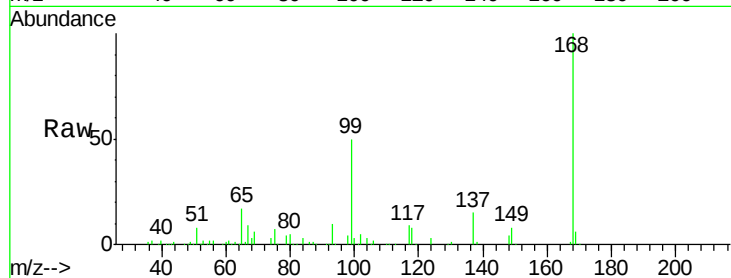
99 49.9 40.8 61.2

Manual Integrations

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3/5/2019 10:48:21 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

60000

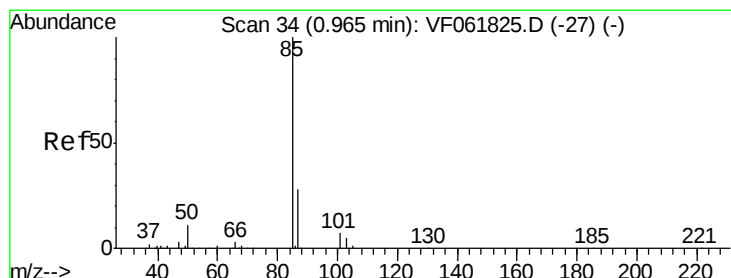
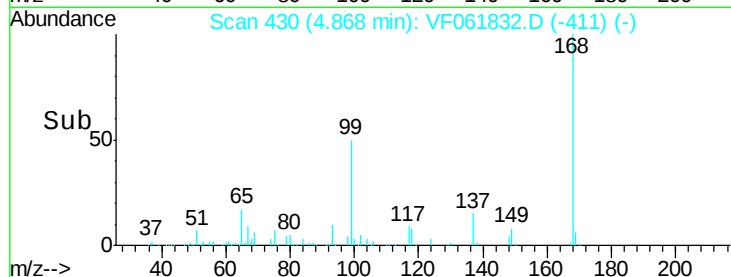
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 3.302 ug/l

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF061832.D

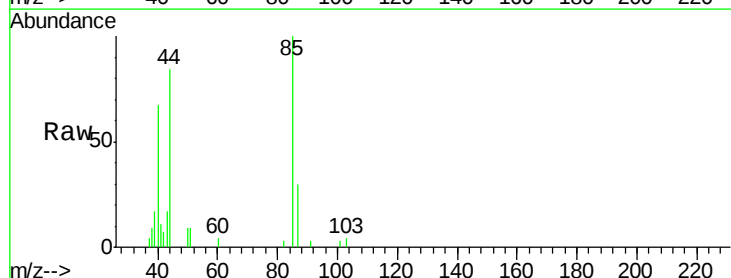
Acq: 4 Mar 2019 21:48

Tgt Ion: 85 Resp: 11917

Ion Ratio Lower Upper

85 100

87 30.0 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

4000

3000

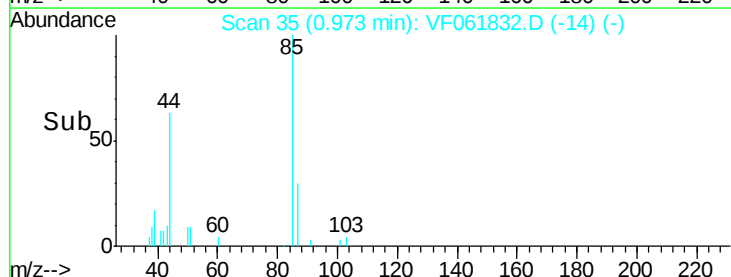
2000

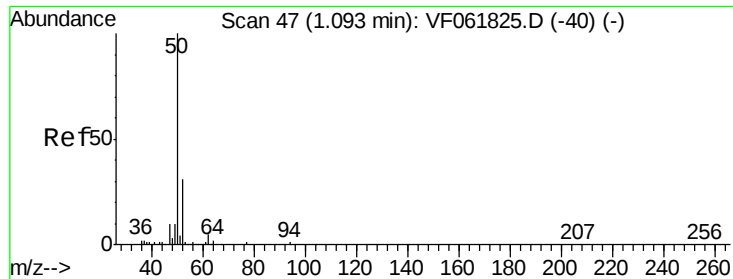
1000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 3.142 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 50 Resp: 10988

Ion Ratio Lower Upper

50 100

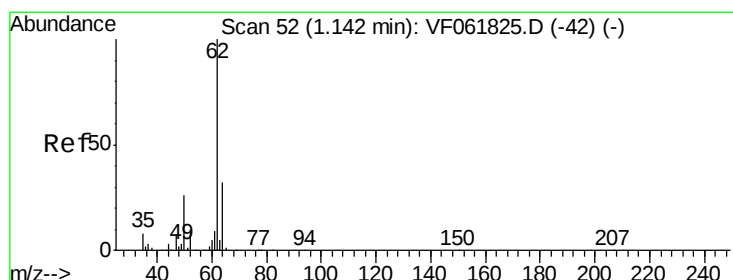
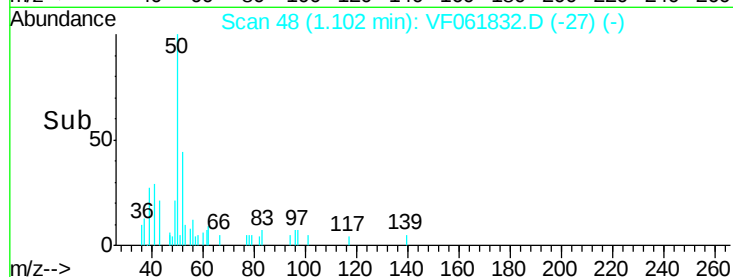
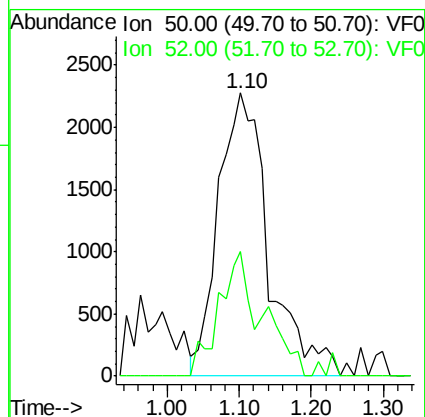
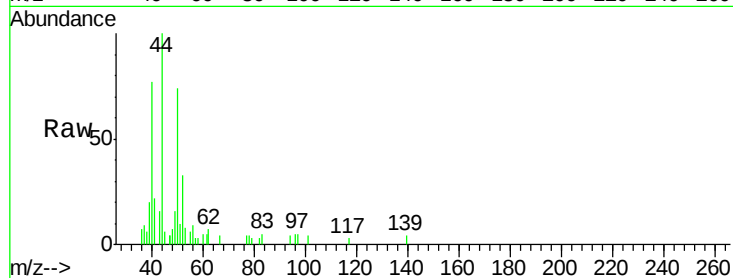
52 44.1 23.8 35.8#

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.958 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061832.D

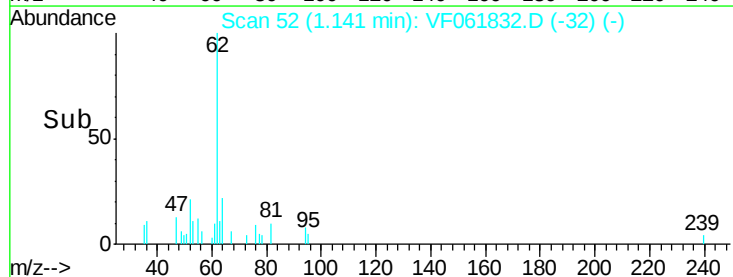
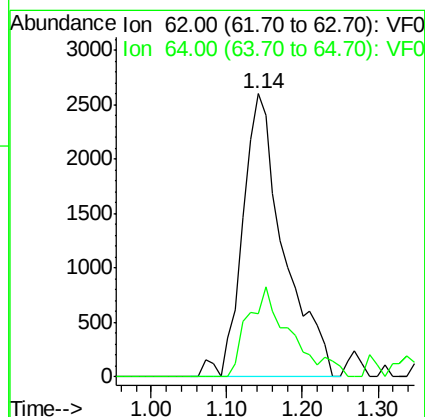
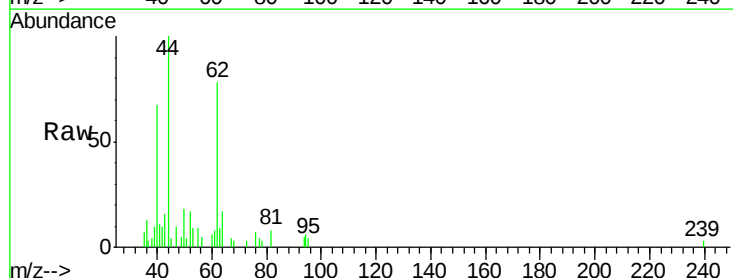
Acq: 4 Mar 2019 21:48

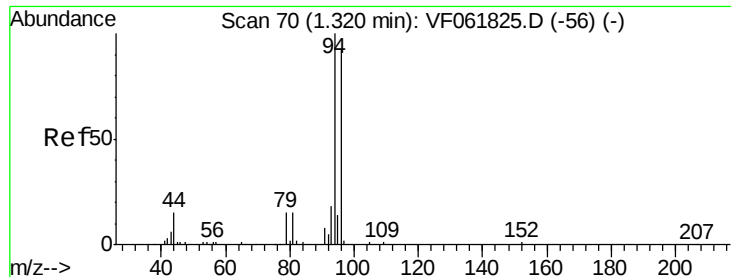
Tgt Ion: 62 Resp: 9821

Ion Ratio Lower Upper

62 100

64 22.4 25.2 37.8#





#5

Bromomethane

Concen: 3.297 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

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Tot Ion: 94 Resp: 7461

Ion Ratio Lower Upper

94 100

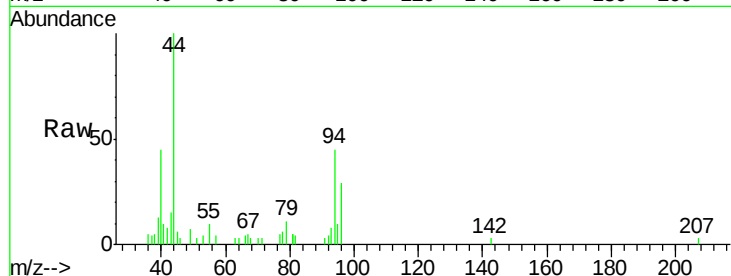
96 63.7 75.2 112.8#

Manual Integrations

APPROVED

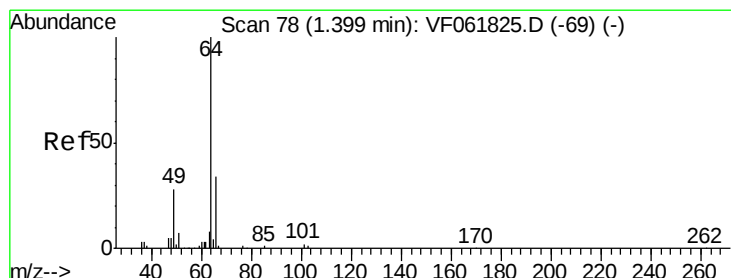
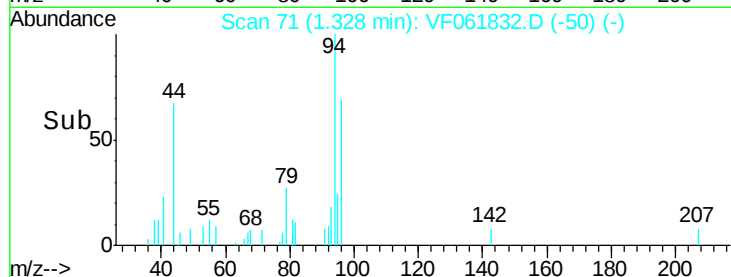
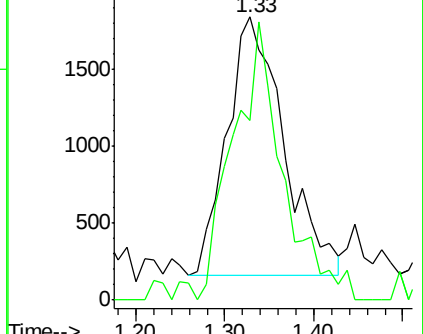
MMDadoda

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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 3.506 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061832.D

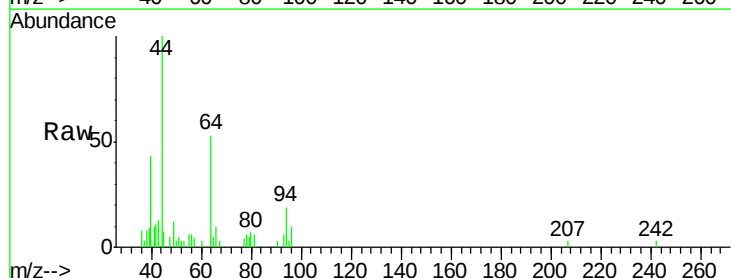
Acq: 4 Mar 2019 21:48

Tgt Ion: 64 Resp: 5533

Ion Ratio Lower Upper

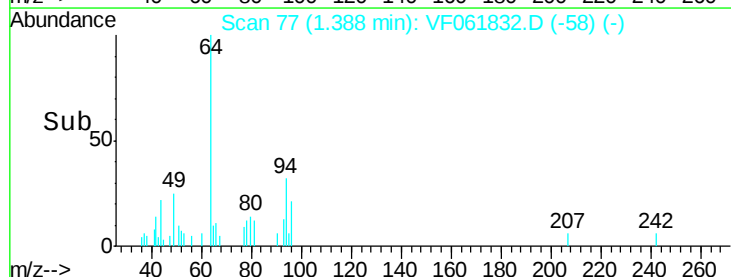
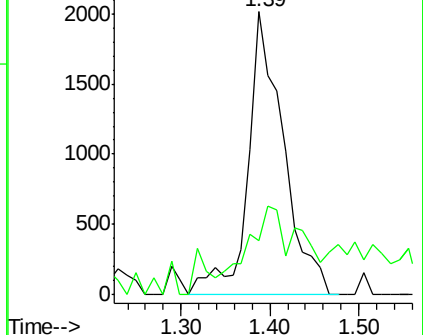
64 100

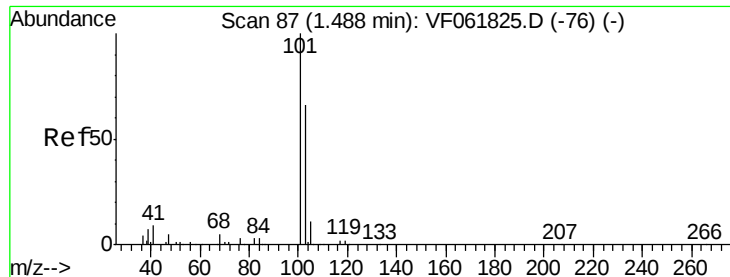
66 19.1 27.0 40.4#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 3.247 ug/l

RT: 1.49 min Scan# 87

Delta R.T. -0.00 min

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Tot Ion:101 Resp: 13168

Ion Ratio Lower Upper

101 100

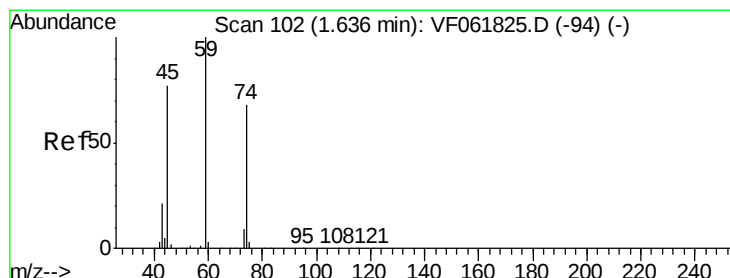
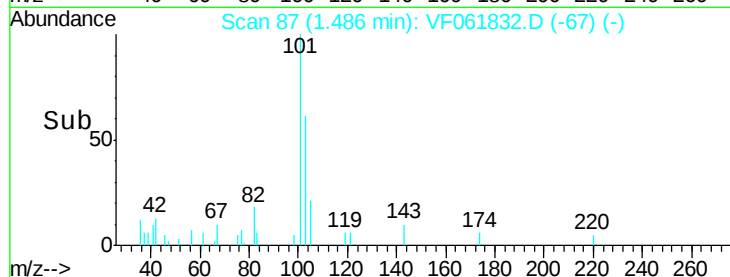
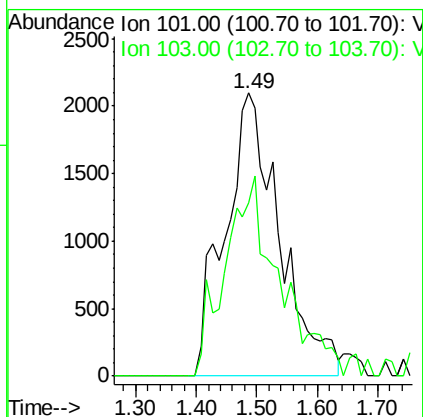
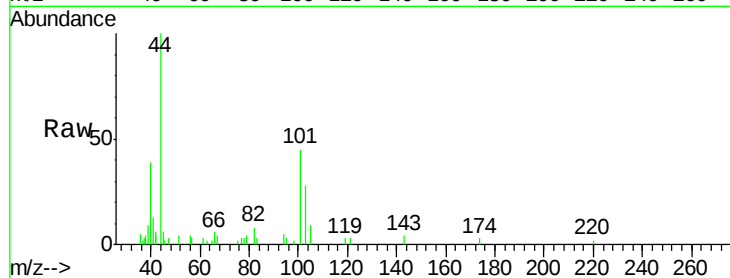
103 61.2 52.8 79.2

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#8

Diethyl Ether

Concen: 4.018 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061832.D

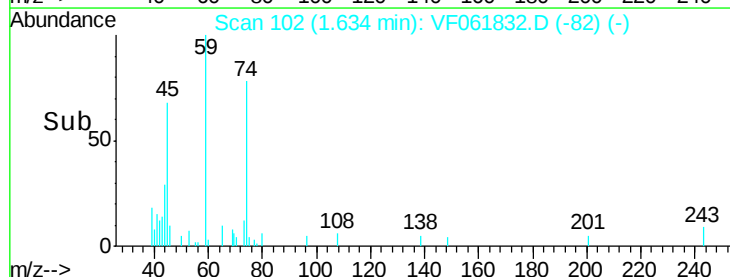
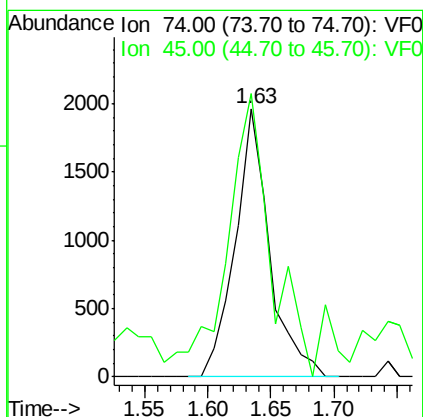
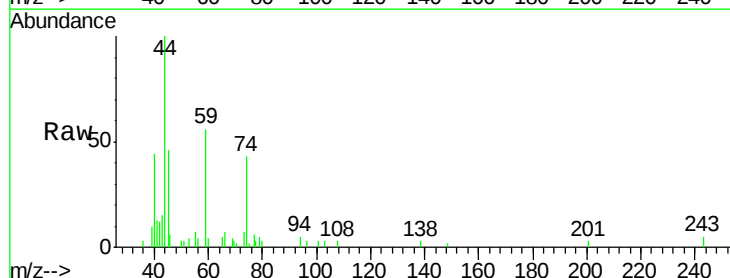
Acq: 4 Mar 2019 21:48

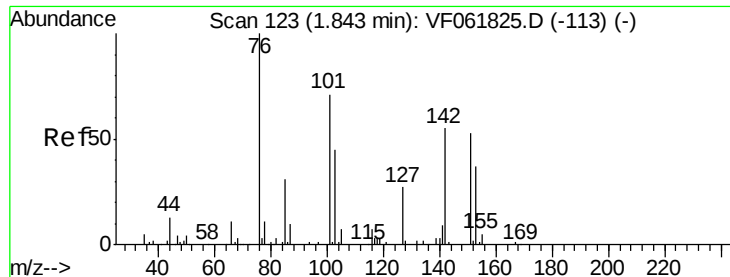
Tgt Ion: 74 Resp: 3705

Ion Ratio Lower Upper

74 100

45 105.5 57.2 171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.840 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

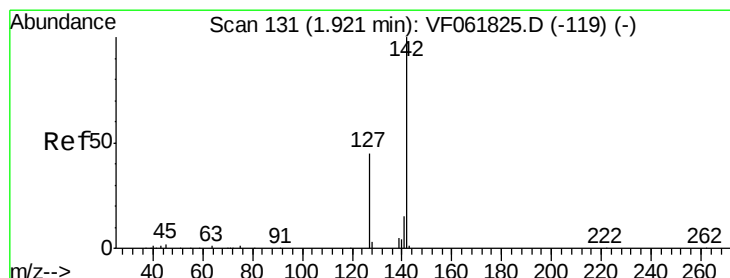
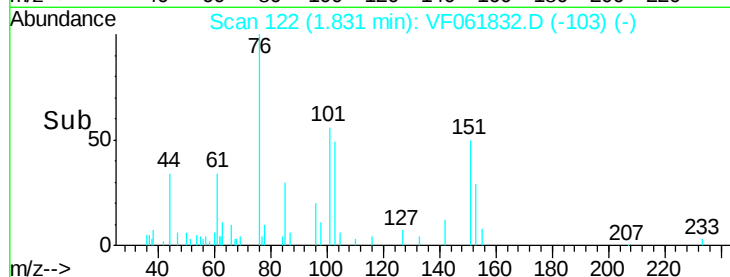
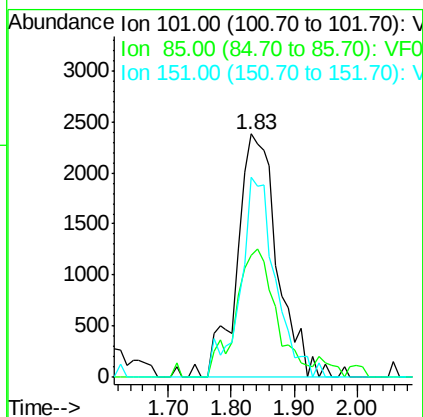
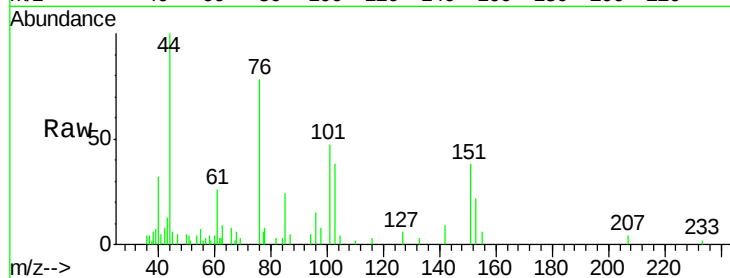
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:	101	Resp:	10576
Ion Ratio	Lower	Upper	
101	100		
85	50.3	34.0	51.0
151	81.9	57.3	85.9

Manual Integrations
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MMDadoda
3/5/2019 10:48:21 AM



#10

Methyl Iodide

Concen: 3.283 ug/l m

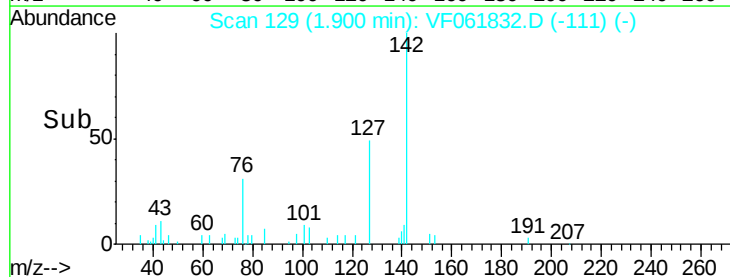
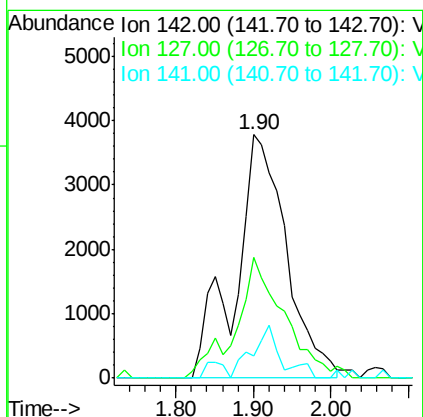
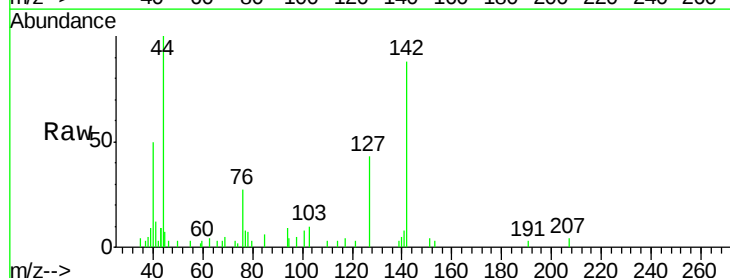
RT: 1.90 min Scan# 129

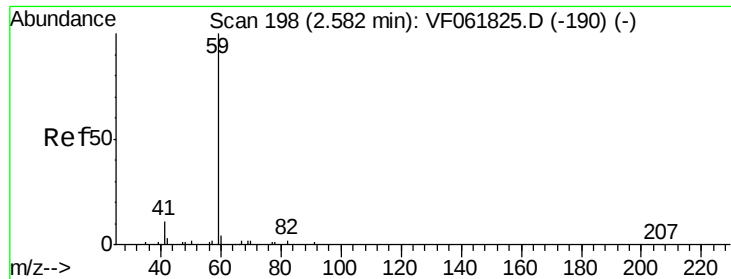
Delta R.T. -0.02 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	142	Resp:	17202
Ion Ratio	Lower	Upper	
142	100		
127	49.4	35.8	53.6
141	9.1	11.7	17.5#





#11

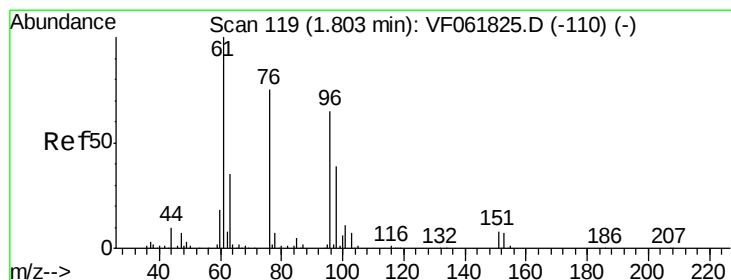
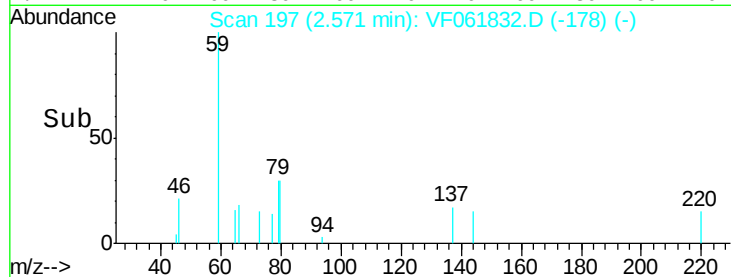
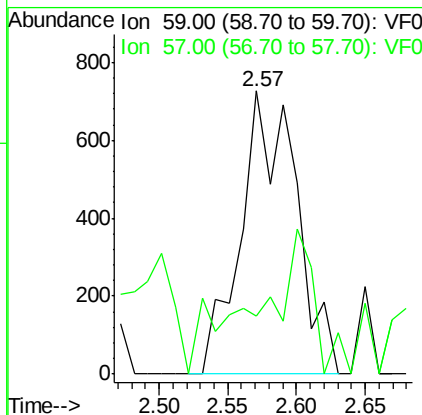
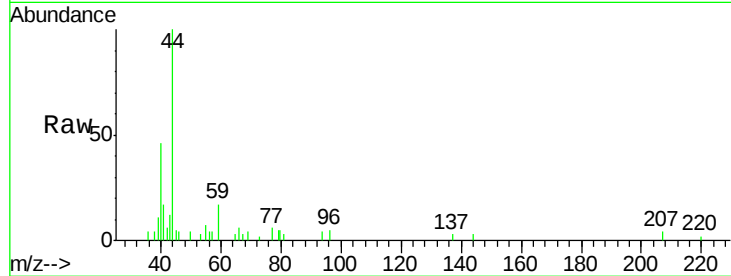
Tert butyl alcohol
 Concen: 16.781 ug/l
 RT: 2.57 min Scan# 197
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 59 Resp: 2039
 Ion Ratio Lower Upper
 59 100
 57 20.6 11.8 17.6#

Manual Integrations
 APPROVED

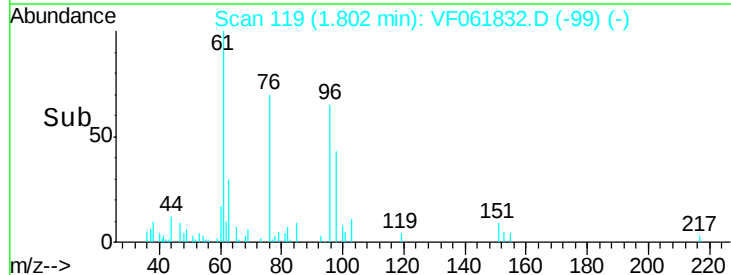
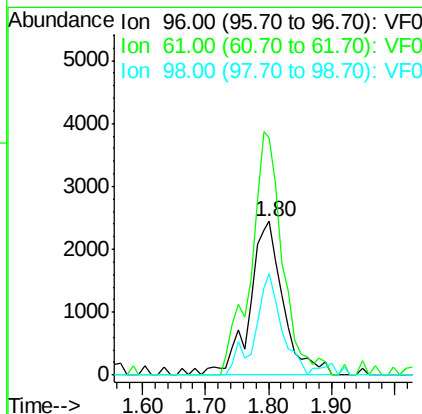
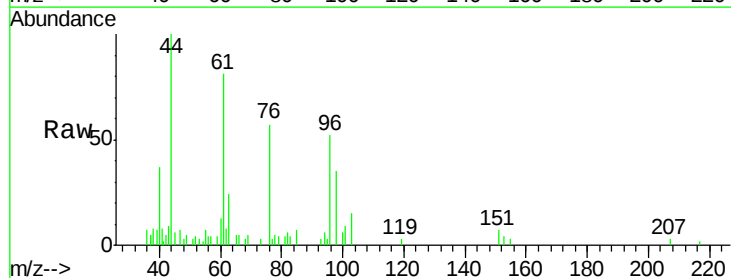
MMDadoda
 3/5/2019 10:48:21 AM

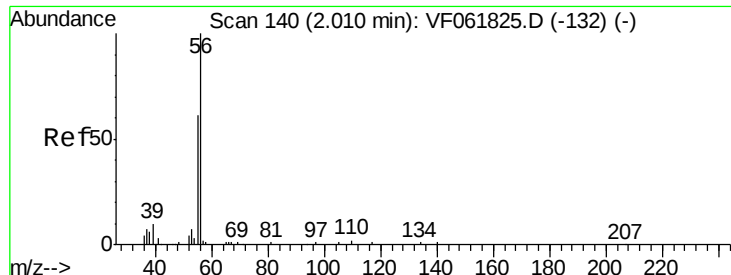


#12

1,1-Dichloroethene
 Concen: 3.628 ug/l
 RT: 1.80 min Scan# 119
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion: 96 Resp: 9120
 Ion Ratio Lower Upper
 96 100
 61 154.1 122.5 183.7
 98 66.3 47.1 70.7





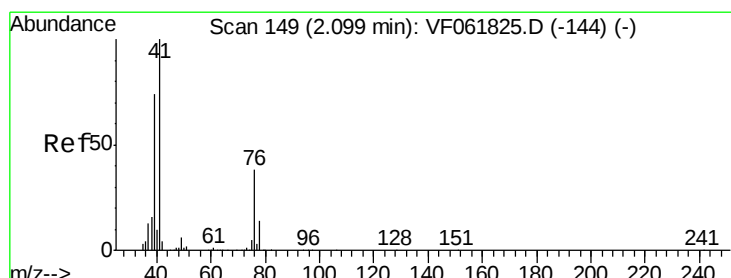
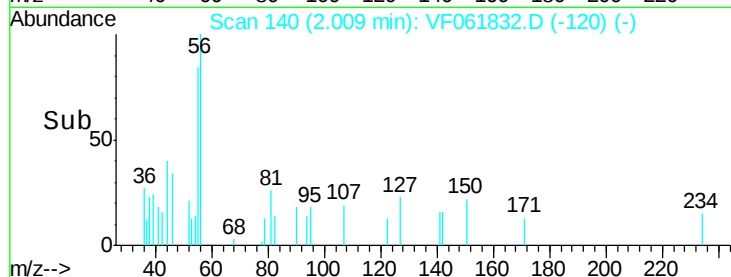
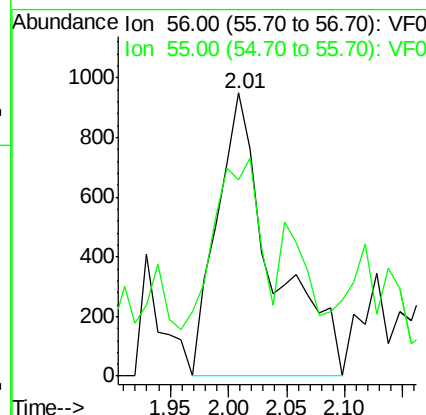
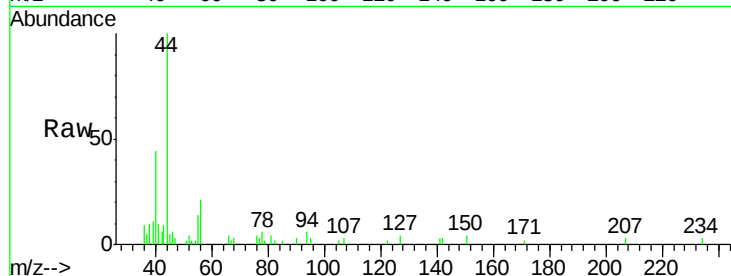
#13
Acrolein
Concen: 20.336 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
56	100		
55	69.4	51.3	76.9

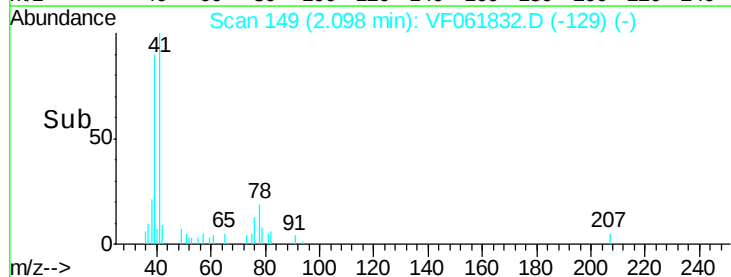
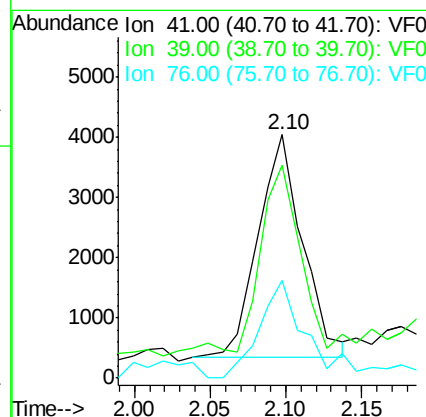
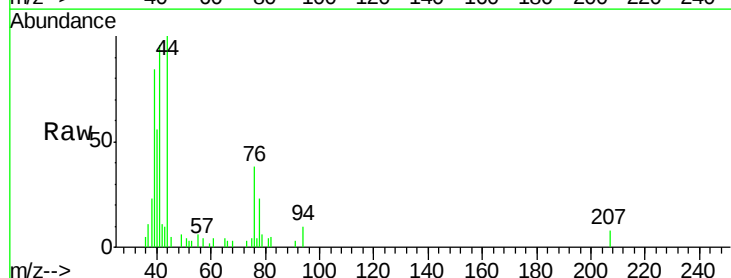
Manual Integrations
APPROVED

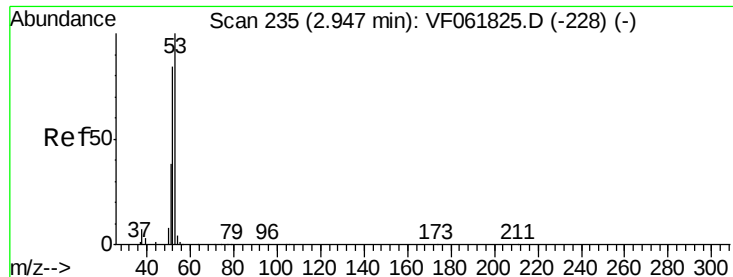
MMDadoda
3/5/2019 10:48:21 AM



#14
Allyl chloride
Concen: 2.721 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
41	100		
39	87.3	59.6	89.4
76	40.2	32.3	48.5





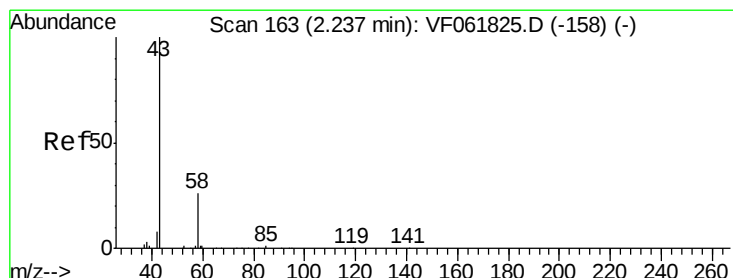
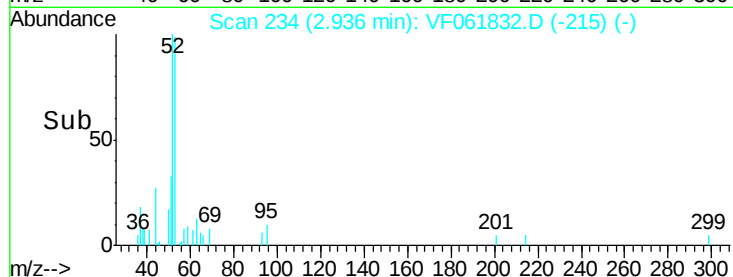
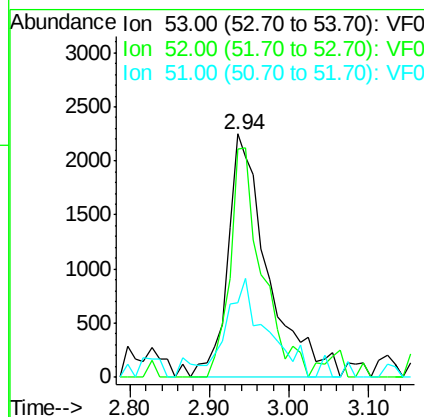
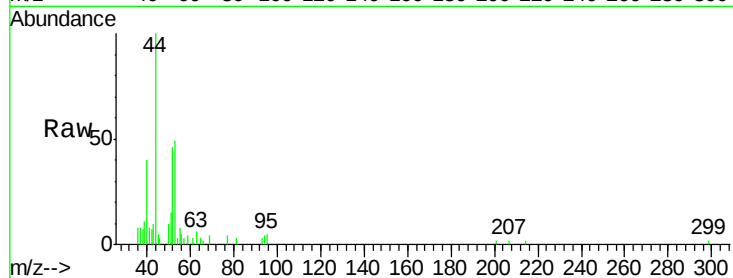
#15
Acrylonitrile
Concen: 20.415 ug/l
RT: 2.94 min Scan# 234
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
53	100		
52	93.6	67.4	101.0
51	30.5	30.7	46.1#

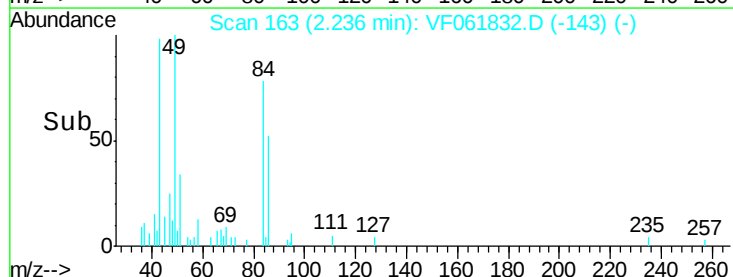
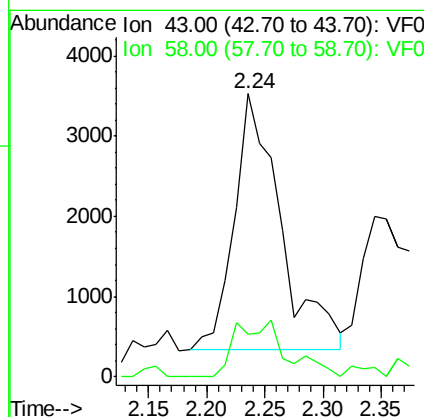
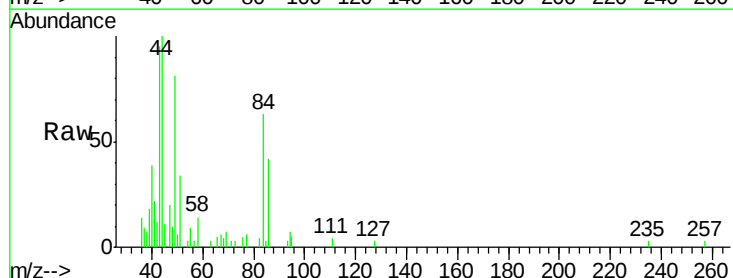
Manual Integrations
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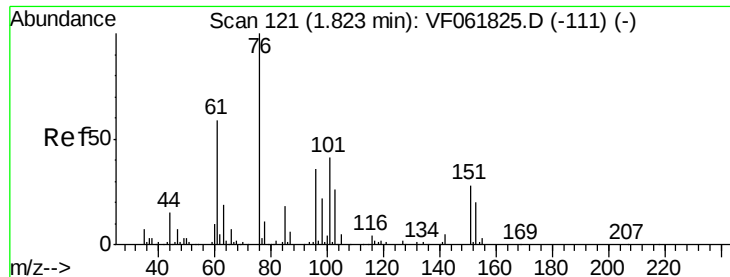
MMDadoda
3/5/2019 10:48:21 AM



#16
Acetone
Concen: 19.736 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
43	100		
58	15.1	20.3	30.5#





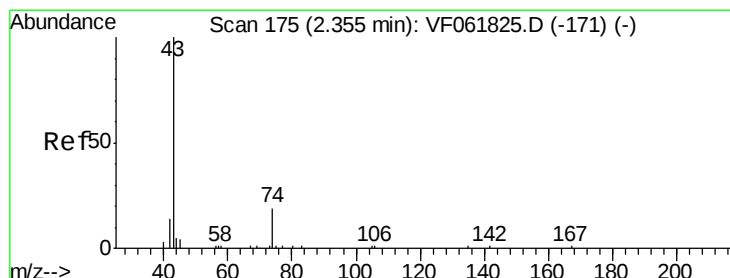
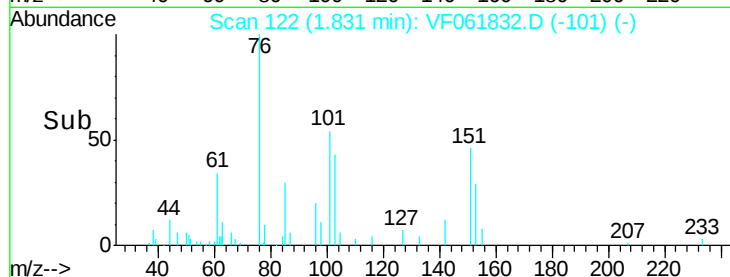
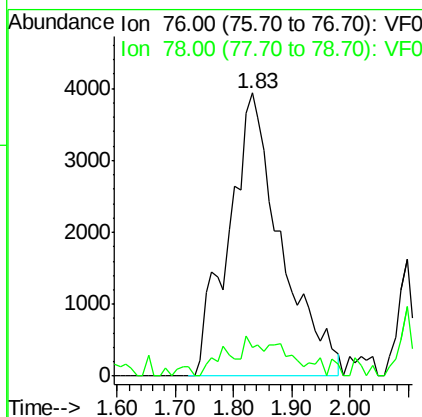
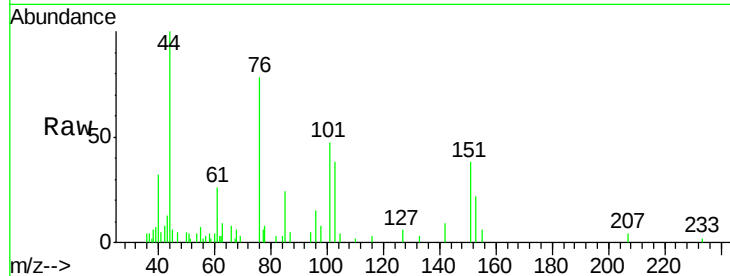
#17
Carbon Disulfide
Concen: 3.144 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 76 Resp: 24608
Ion Ratio Lower Upper
76 100
78 10.2 9.1 13.7

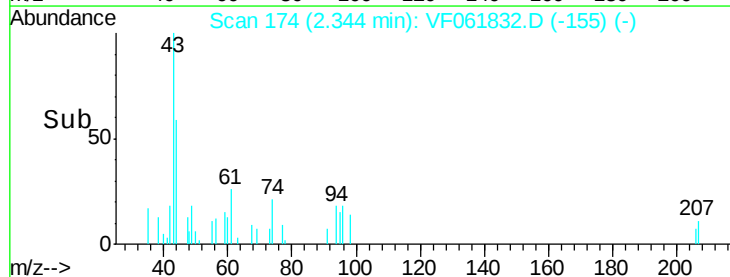
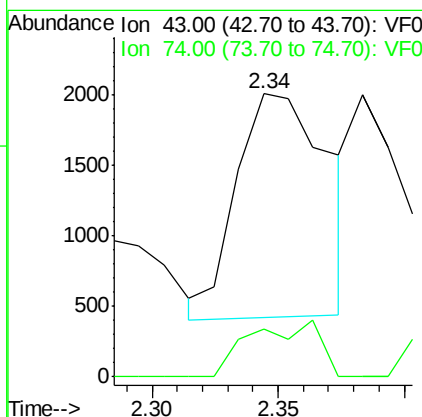
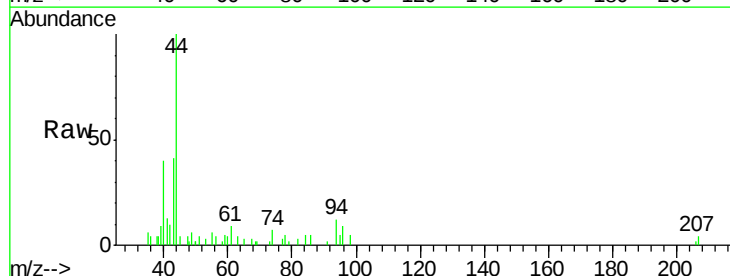
Manual Integrations
APPROVED

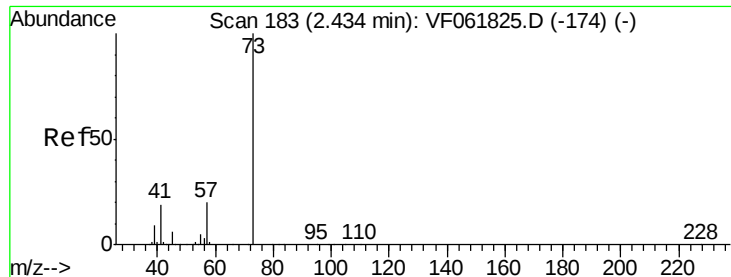
MMDadoda
3/5/2019 10:48:21 AM



#18
Methyl Acetate
Concen: Below Cal
RT: 2.34 min Scan# 174
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 43 Resp: 3997
Ion Ratio Lower Upper
43 100
74 17.1 13.2 19.8





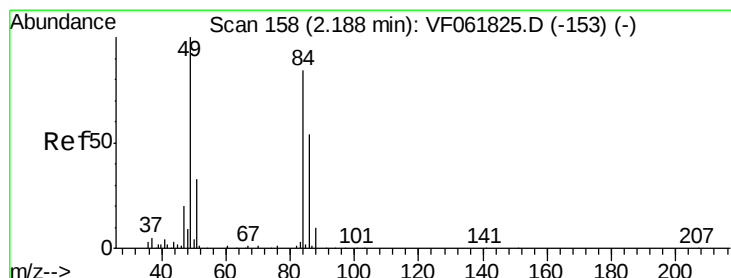
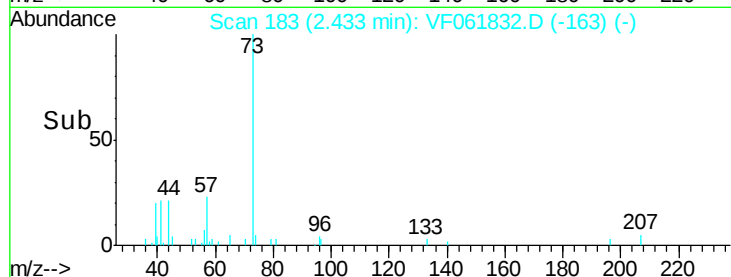
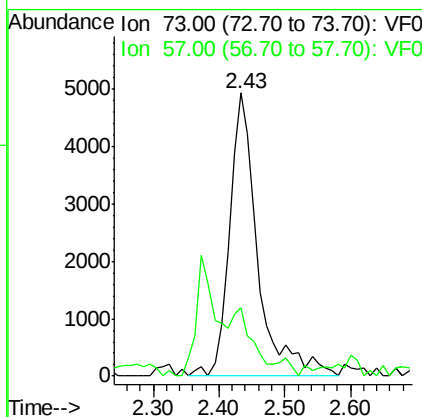
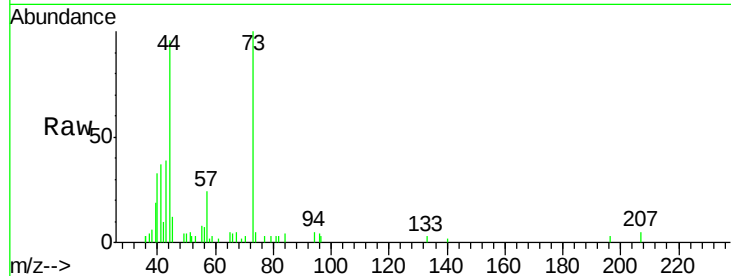
#19
Methvl tert-butvl Ether
Concen: 3.485 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 73 Resp: 14820
Ion Ratio Lower Upper
73 100
57 24.3 16.1 24.1#

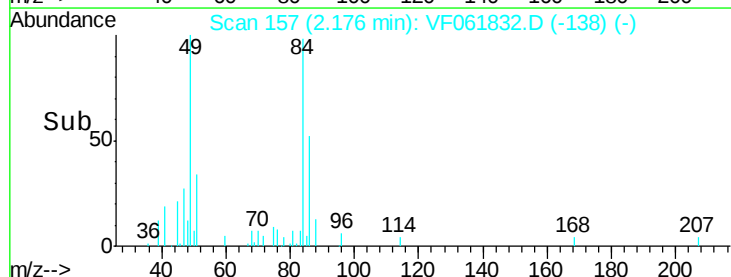
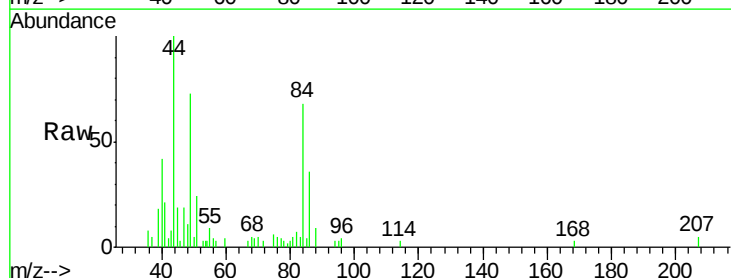
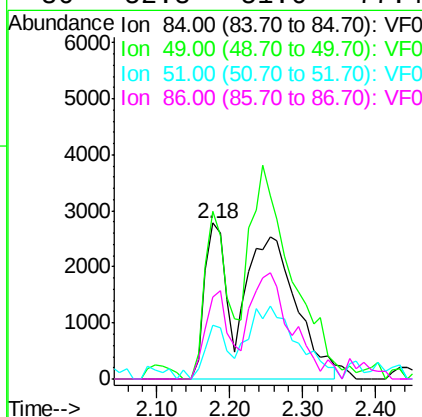
Manual Integrations
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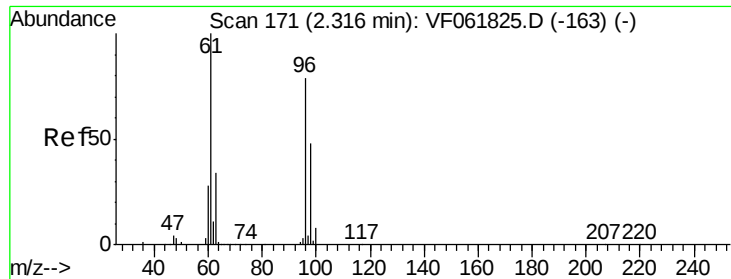
MMDadoda
3/5/2019 10:48:21 AM



#20
Methylene Chloride
Concen: 1.981 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 84 Resp: 17534
Ion Ratio Lower Upper
84 100
49 107.6 96.8 145.2
51 34.8 31.8 47.6
86 52.8 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 3.775 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

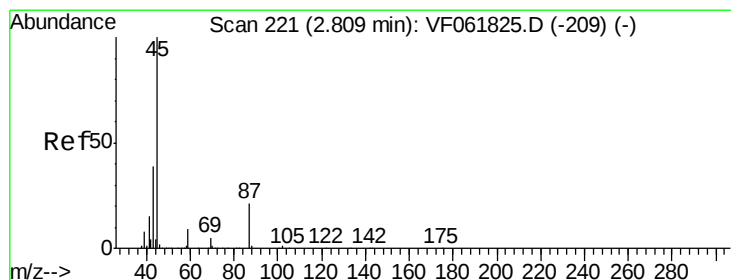
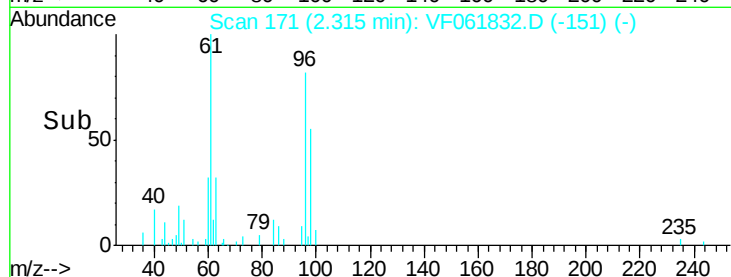
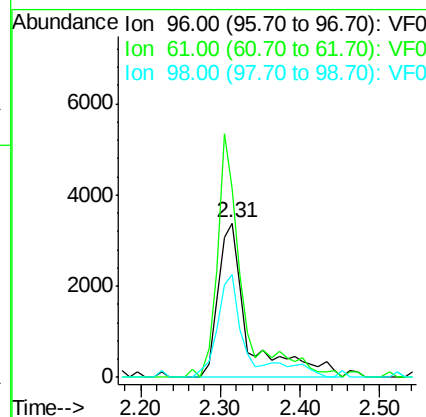
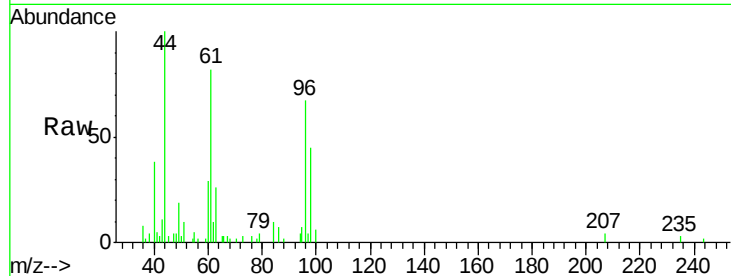
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:	96	Resp:	8932
Ion	Ratio	Lower	Upper
96	100		
61	122.1	101.0	151.6
98	66.9	48.8	73.2

Manual Integrations
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MMDadoda
3/5/2019 10:48:21 AM



#22

Diisopropyl ether

Concen: 3.149 ug/l

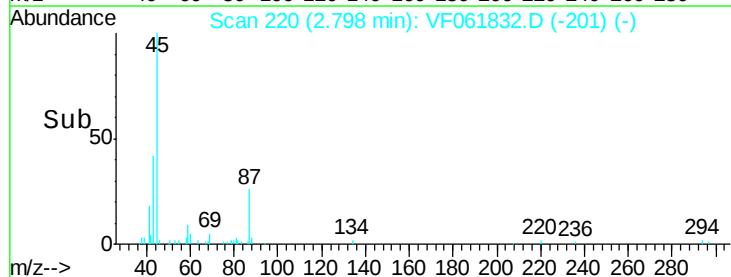
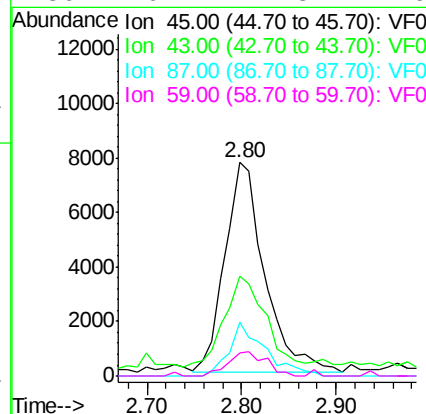
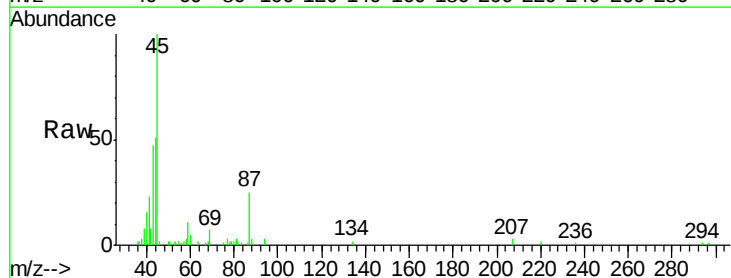
RT: 2.80 min Scan# 220

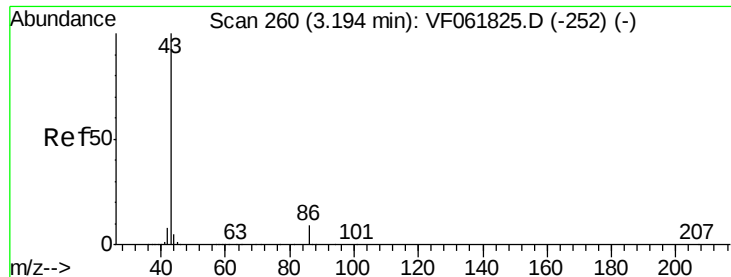
Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	45	Resp:	22684
Ion	Ratio	Lower	Upper
45	100		
43	46.6	31.8	47.8
87	25.0	17.1	25.7
59	10.7	7.8	11.6





#23

Vinyl Acetate

Concen: 15.144 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 48743

Ion Ratio Lower Upper

43 100

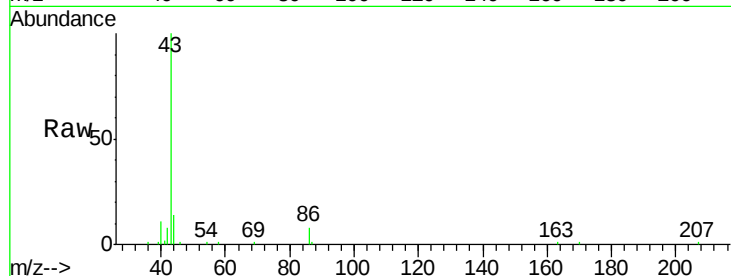
86 7.7 7.0 10.4

Manual Integrations

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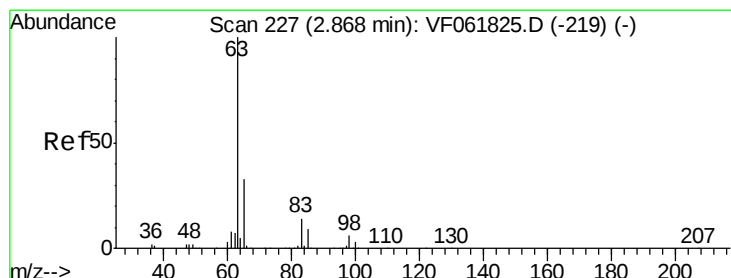
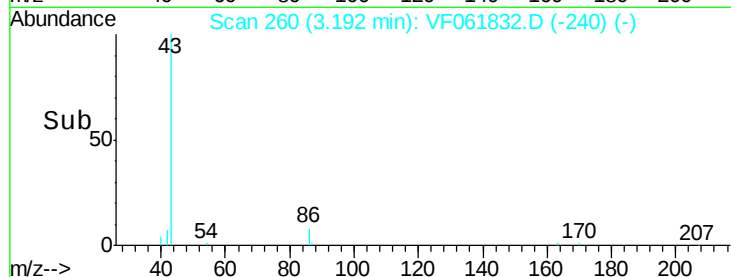
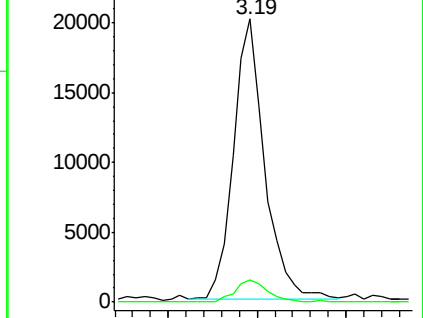
MMDadoda

3/5/2019 10:48:21 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 3.105 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

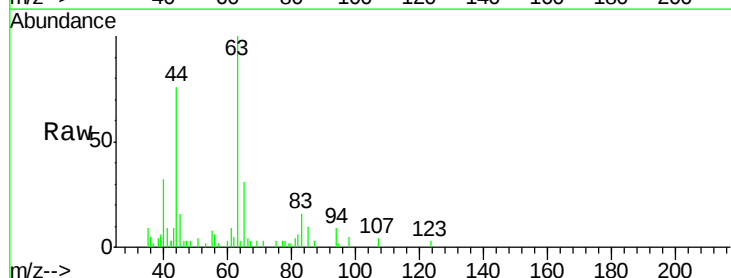
Tgt Ion: 63 Resp: 13373

Ion Ratio Lower Upper

63 100

98 5.0 2.9 8.6

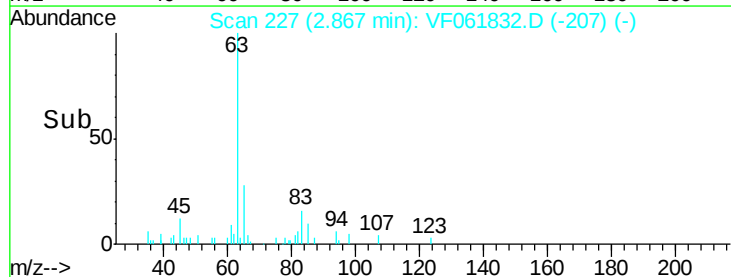
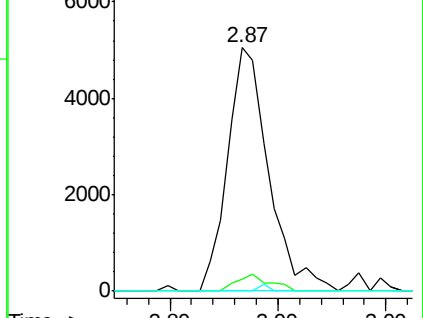
100 0.0 1.8 5.3#

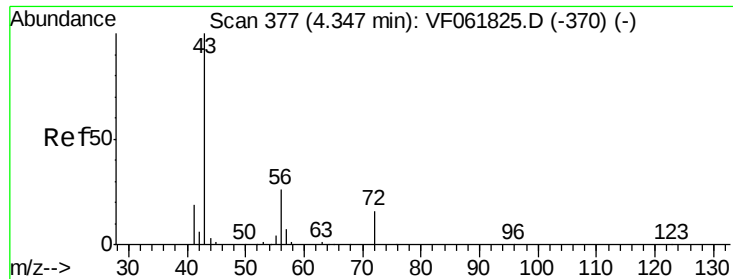


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 18.004 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 16422

Ion Ratio Lower Upper

43 100

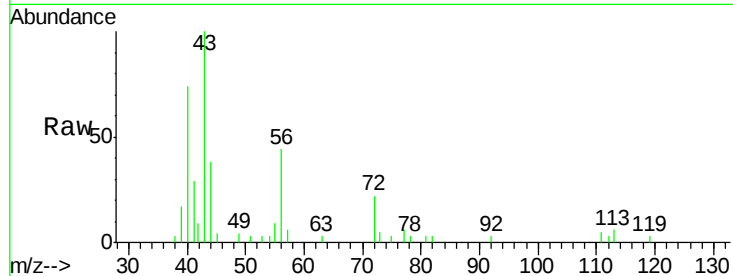
72 21.8 16.2 24.4

Manual Integrations

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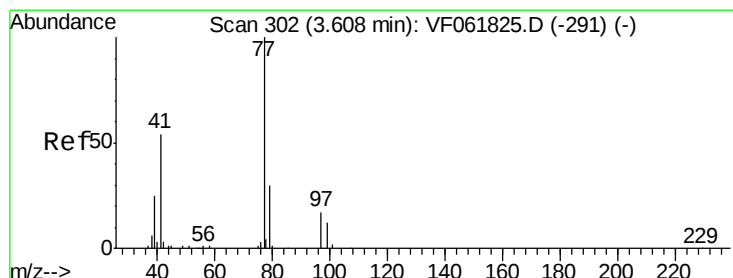
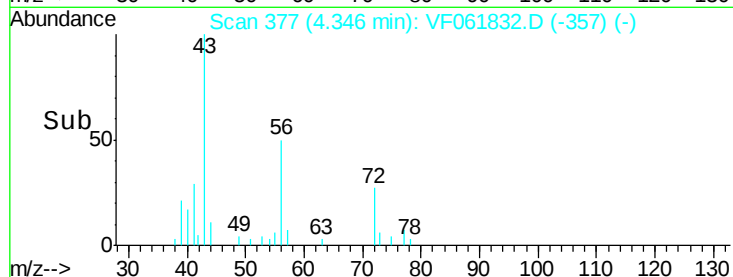
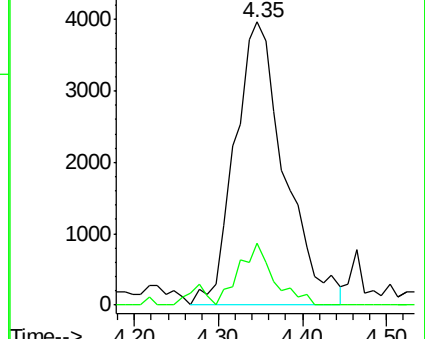
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 2.749 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.00 min

Lab File: VF061832.D

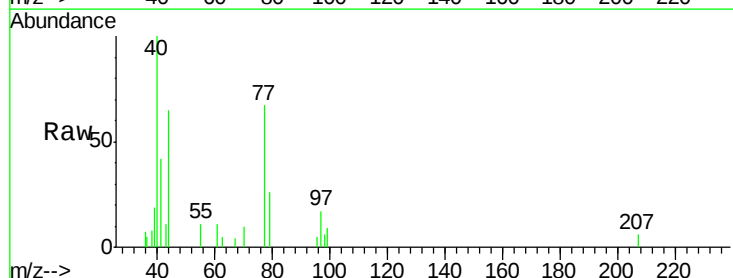
Acq: 4 Mar 2019 21:48

Tgt Ion: 77 Resp: 5285

Ion Ratio Lower Upper

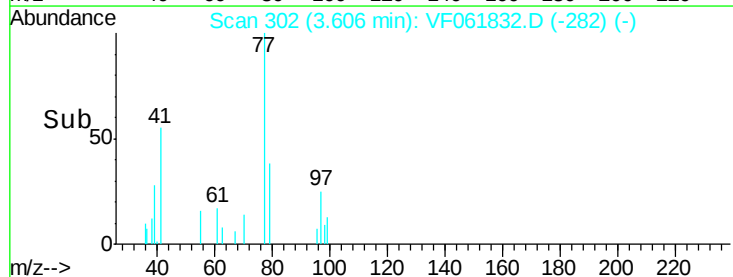
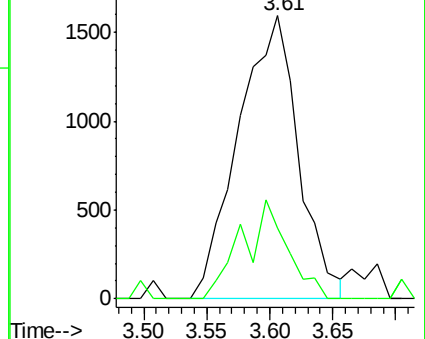
77 100

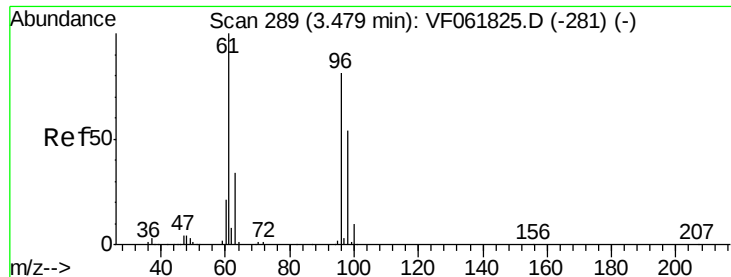
97 25.2 10.4 31.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

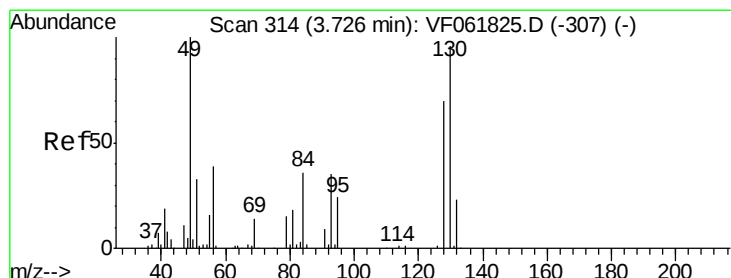
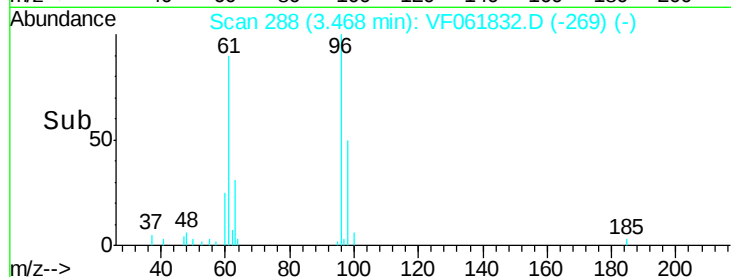
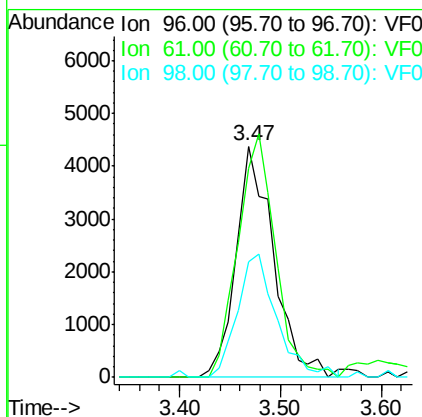
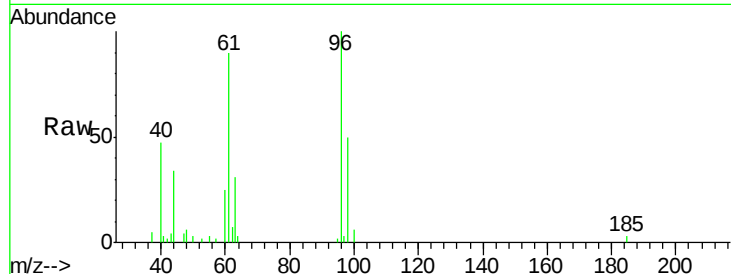
cis-1,2-Dichloroethene
Concen: 3.479 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	90.3	0.0	245.8
98	50.1	0.0	132.6

Manual Integrations
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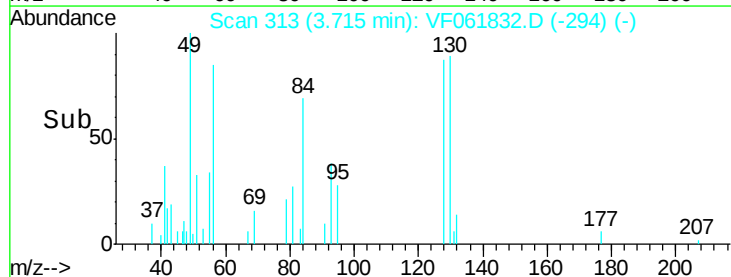
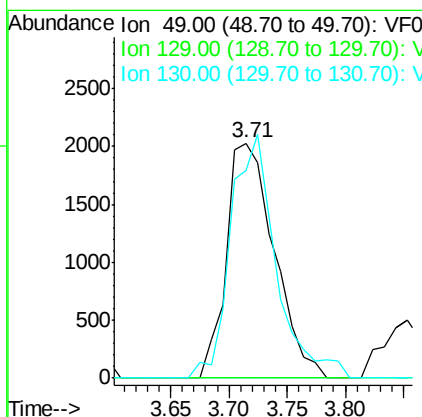
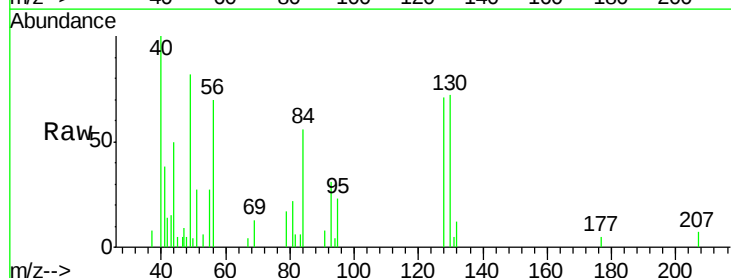
MMDadoda
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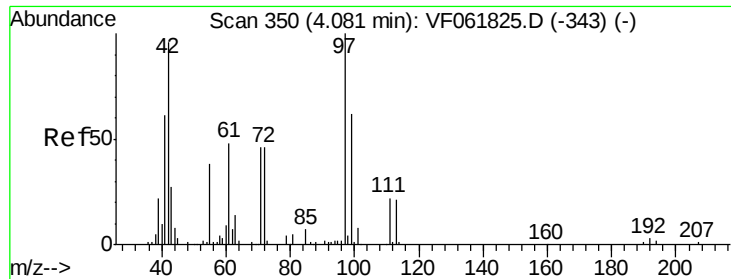


#28

Bromochloromethane
Concen: 3.077 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	84.3	76.9	115.3





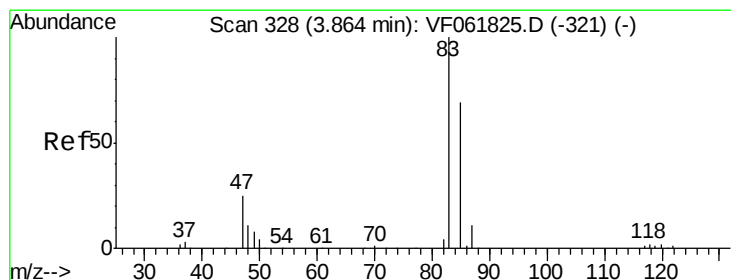
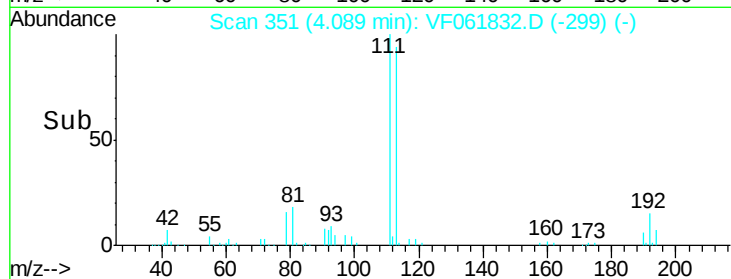
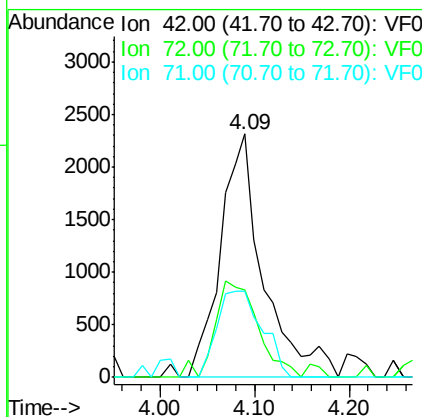
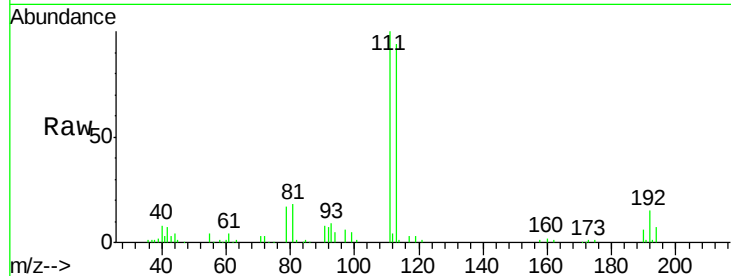
#29
Tetrahydrofuran
Concen: 18.440 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.6	34.4	51.6
71	37.7	34.6	52.0

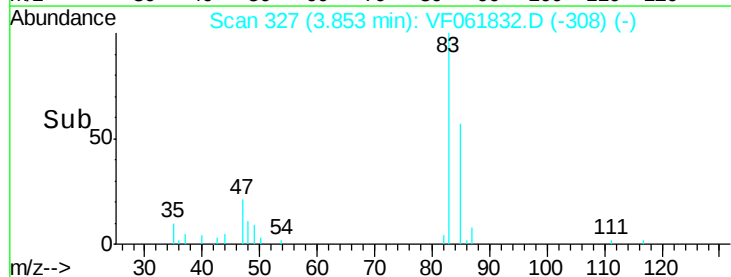
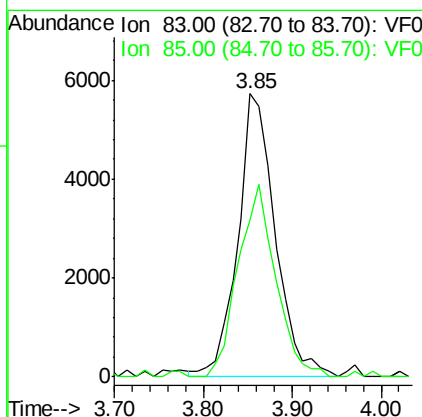
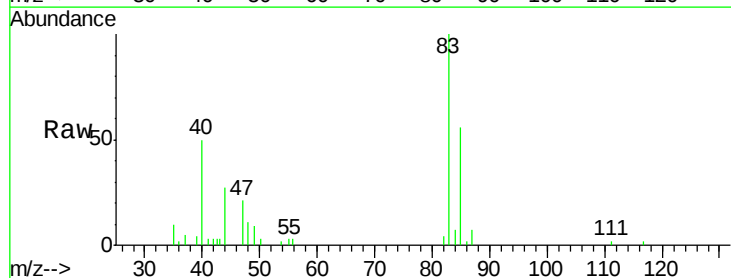
Manual Integrations
APPROVED

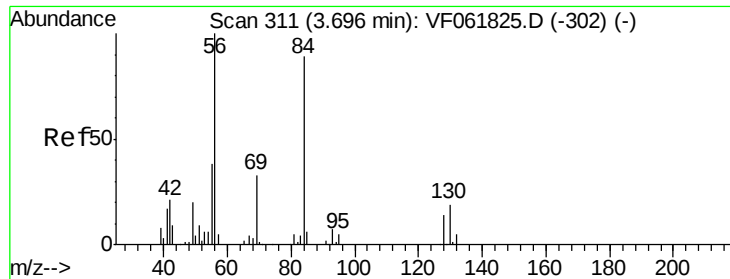
MMDadoda
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#30
Chloroform
Concen: 3.386 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	55.5	55.3	82.9





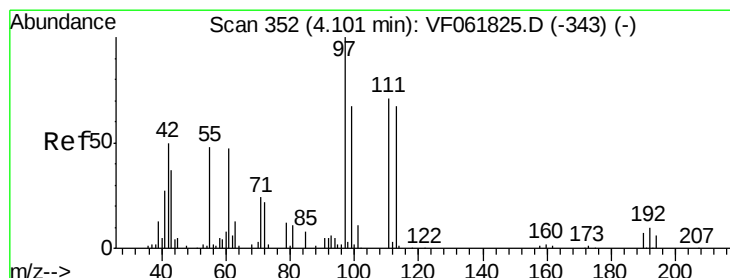
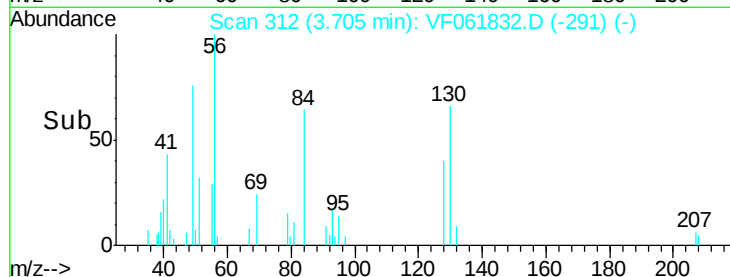
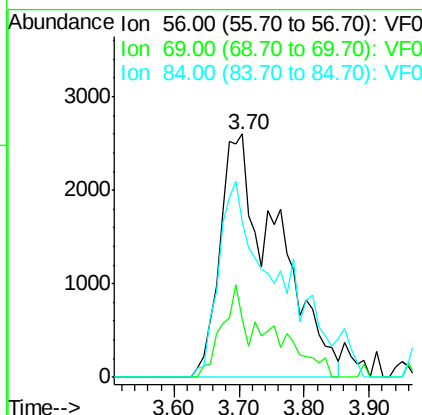
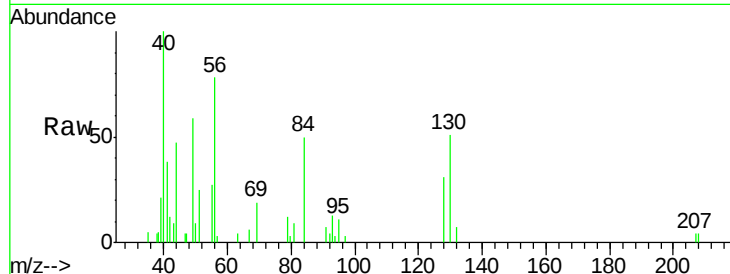
#31
Cyclohexane
Concen: 3.534 ug/l m
RT: 3.70 min Scan# 312
Delta R.T. 0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	23.9	26.0	39.0#
84	63.9	71.0	106.6#

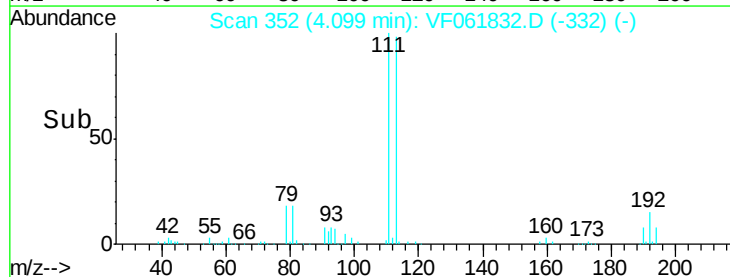
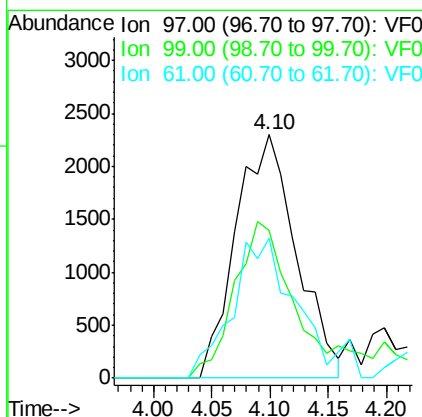
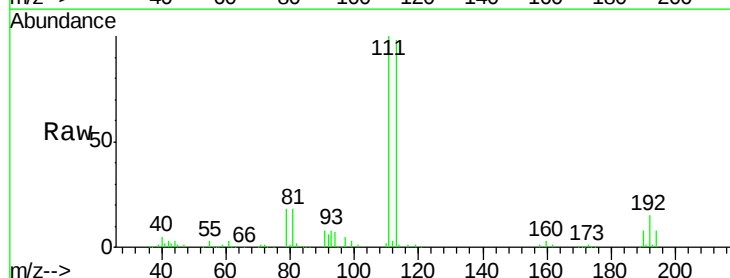
Manual Integrations
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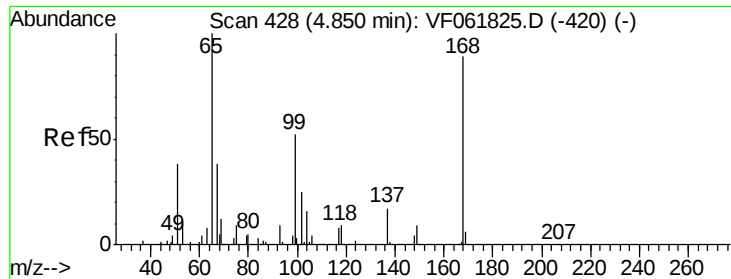
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#32
1,1,1-Trichloroethane
Concen: 2.739 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.6	53.8	80.8
61	57.5	37.9	56.9#





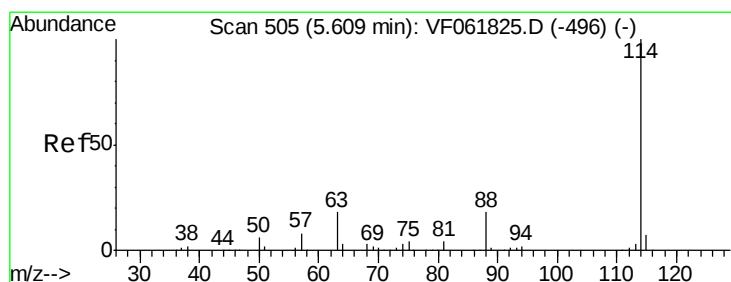
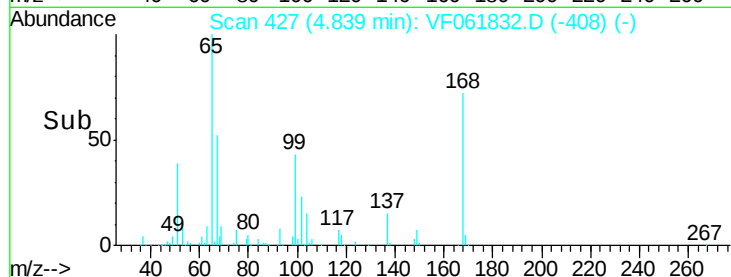
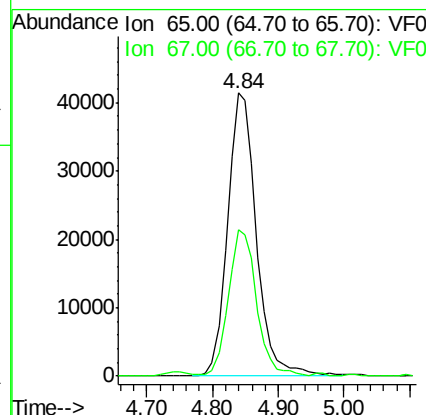
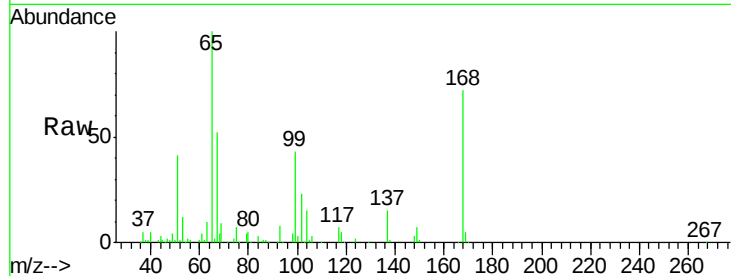
#33
 1,2-Dichloroethane-d4
 Concen: 59.086 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 65 Resp: 126489
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 108.6

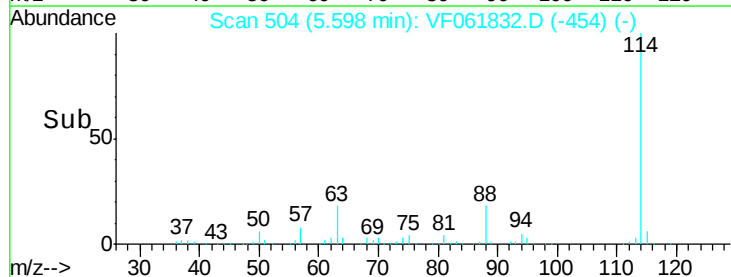
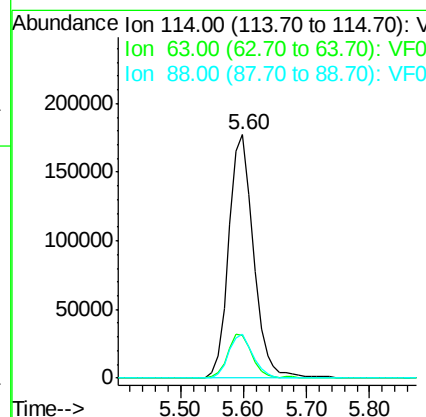
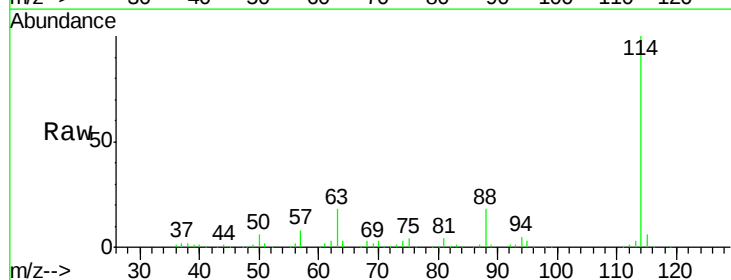
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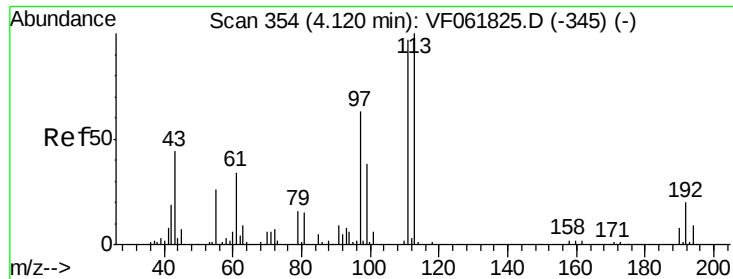
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion: 114 Resp: 483620
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 35.6
 88 17.8 0.0 35.6





#35

Dibromofluoromethane

Concen: 55.201 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

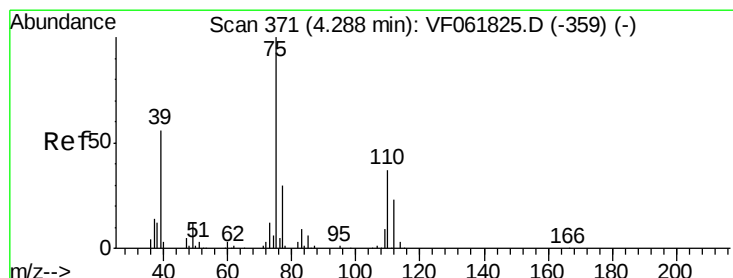
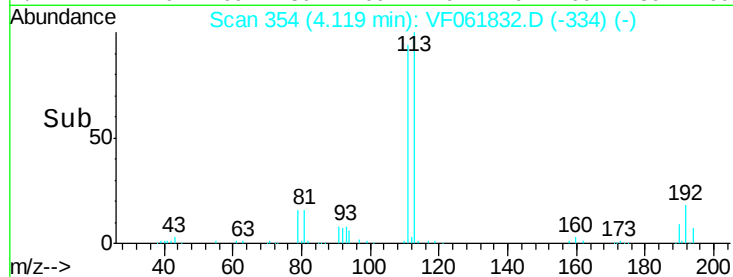
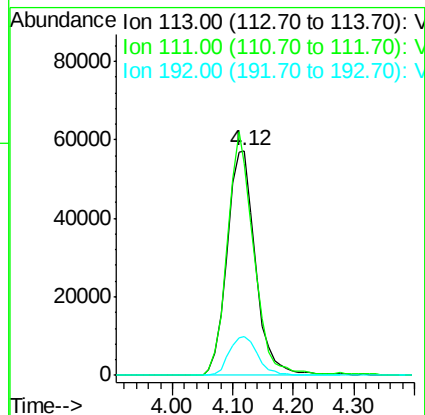
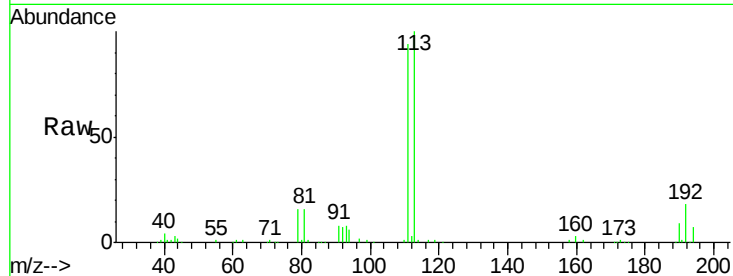
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:	113	Resp:	186306
Ion Ratio	Lower	Upper	
113	100		
111	94.1	77.6	116.4
192	17.5	15.9	23.9

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 3.015 ug/l

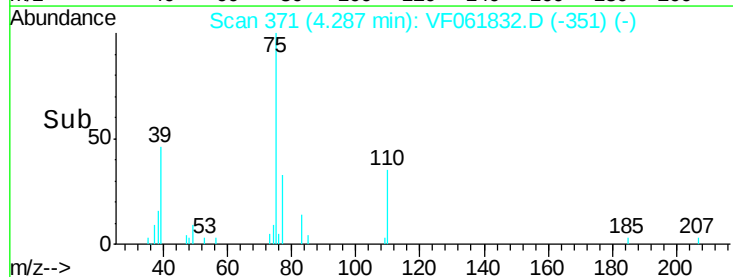
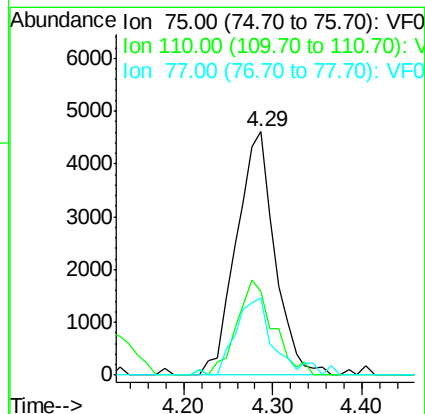
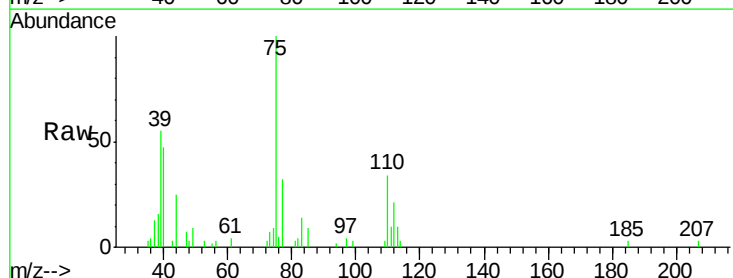
RT: 4.29 min Scan# 371

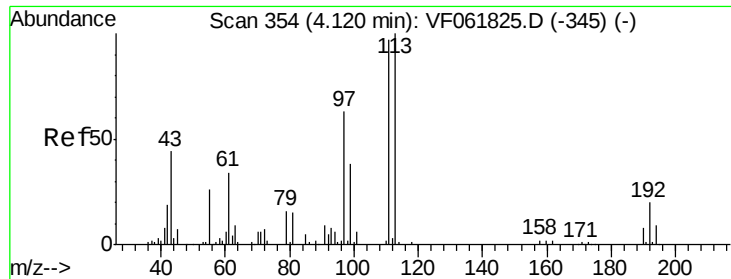
Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	75	Resp:	13772
Ion Ratio	Lower	Upper	
75	100		
110	34.3	18.6	55.6
77	31.8	24.2	36.2





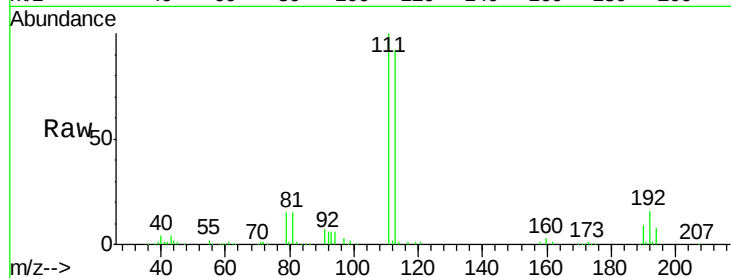
#37
Ethyl Acetate
Concen: 3.905 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	43	61	70
Resp:	7488		
Ratio	100	37.0	12.2
Lower		60.7	10.6
Upper		91.1#	15.8

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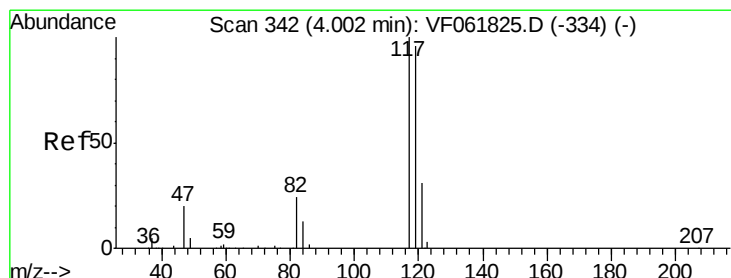
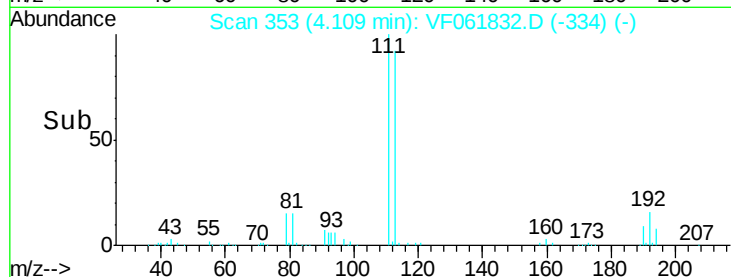
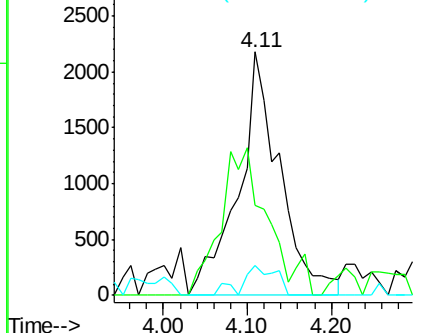


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38
Carbon Tetrachloride
Concen: 2.927 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

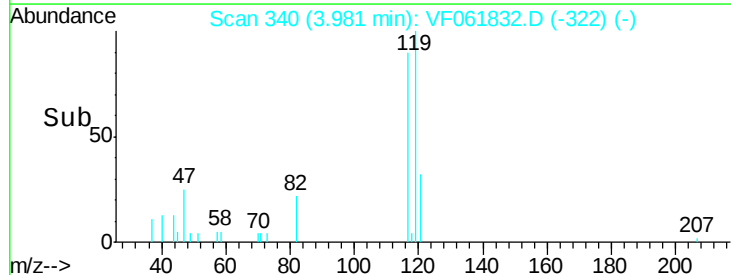
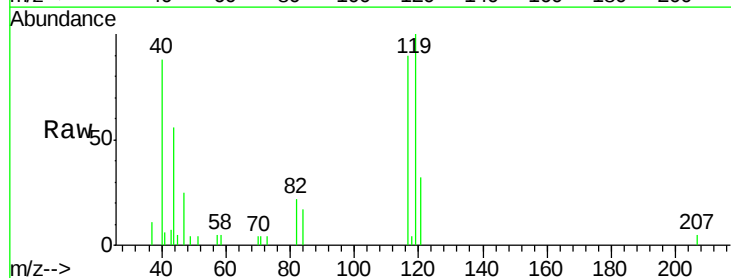
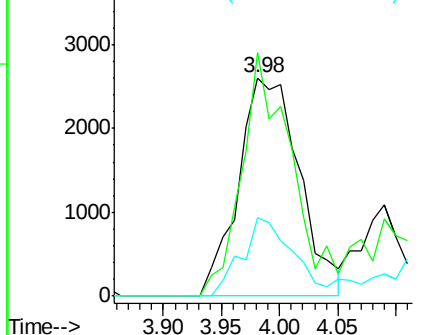
Tgt Ion	117	119	121
Resp:	9466		
Ratio	100	111.5	36.1
Lower		76.6	24.4
Upper		114.8	36.6

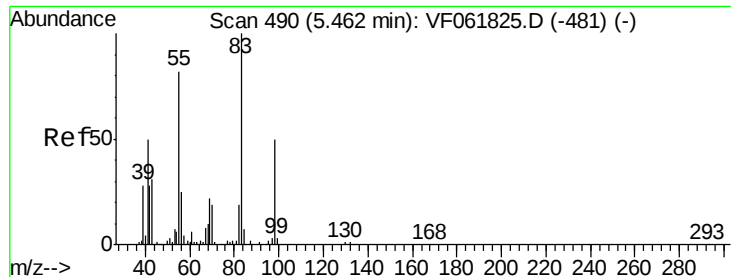
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





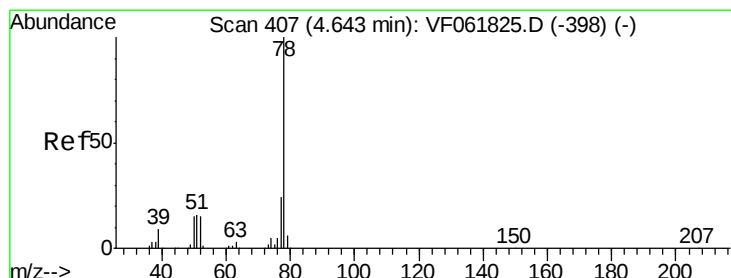
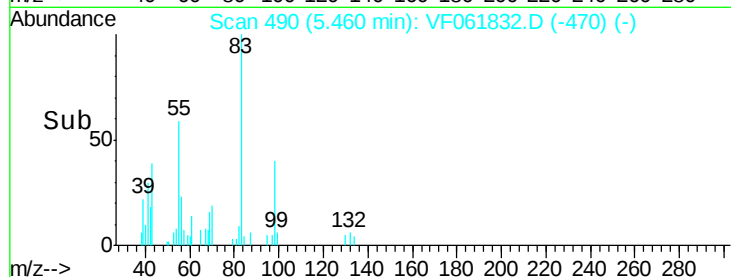
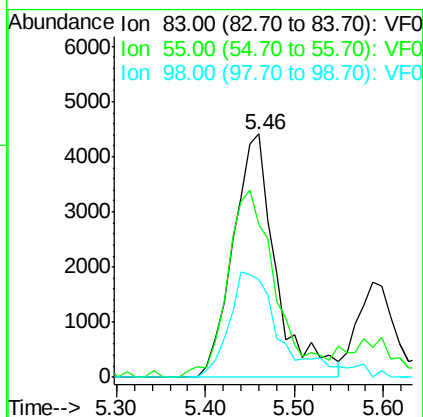
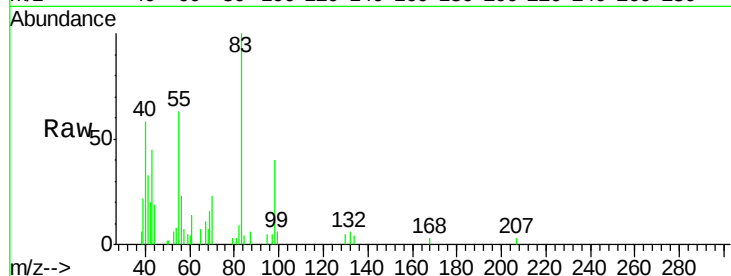
#39
Methylvlcyclohexane
Concen: 2.735 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	62.7	66.0	99.0#
98	40.2	39.8	59.6

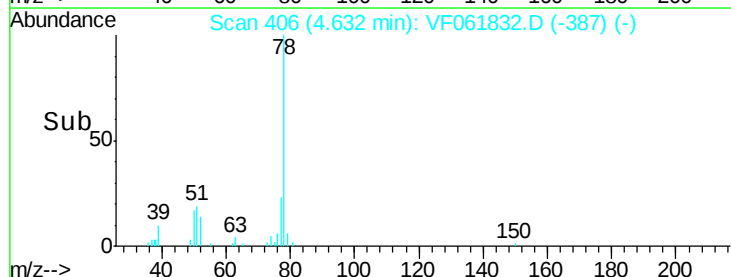
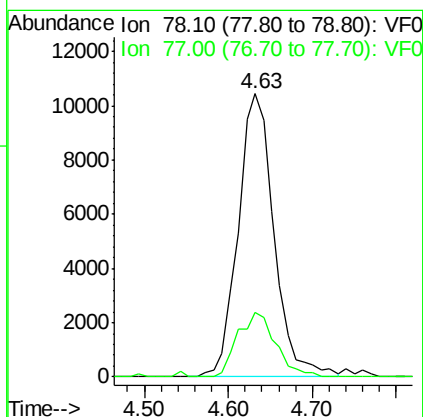
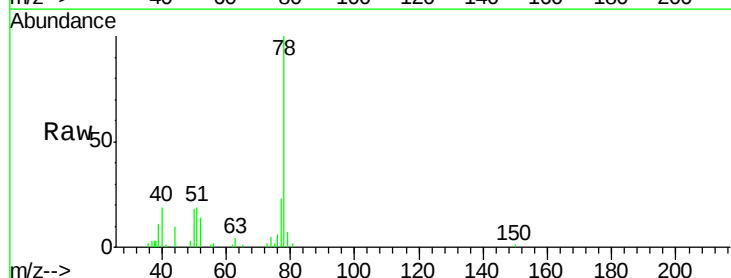
Manual Integrations
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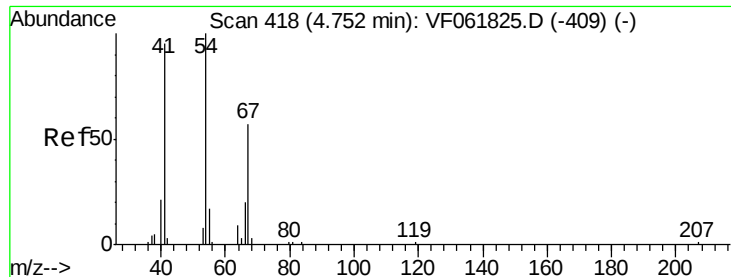
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#40
Benzene
Concen: 2.602 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.5	29.3





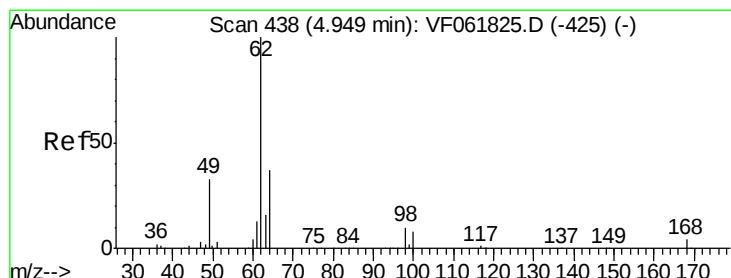
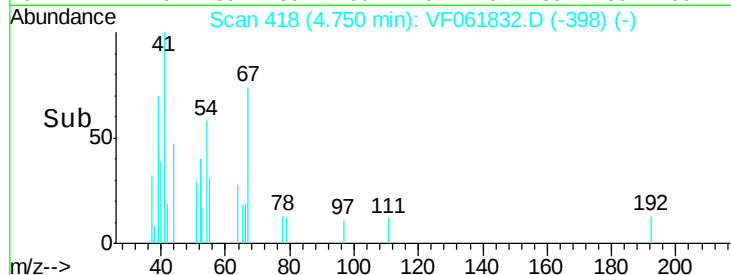
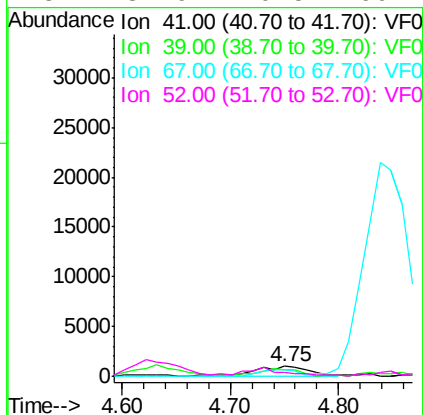
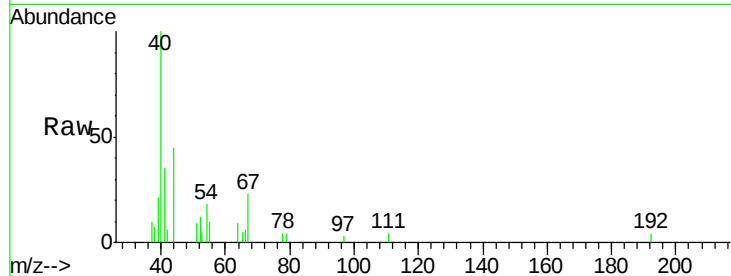
#41
Methacrylonitrile
Concen: 3.471 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		3646		
39	61.1	43.0	64.6		
67	64.6	47.8	71.8		
52	34.9	40.5	60.7		

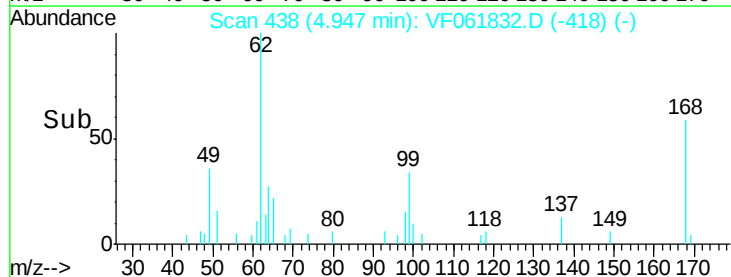
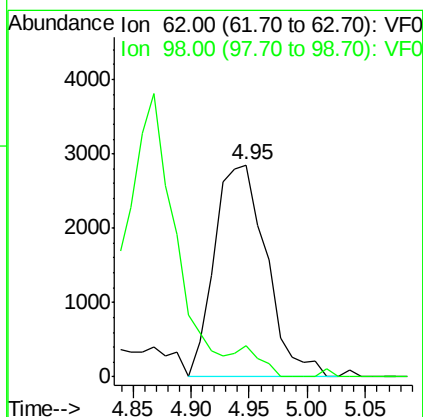
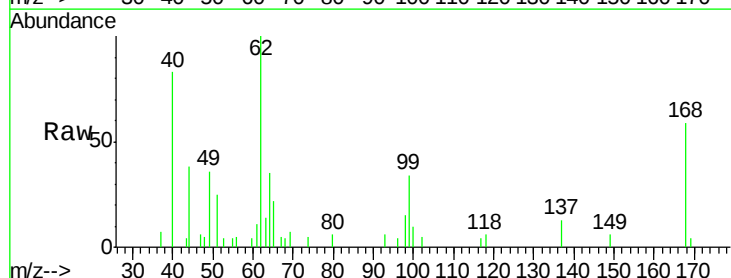
Manual Integrations
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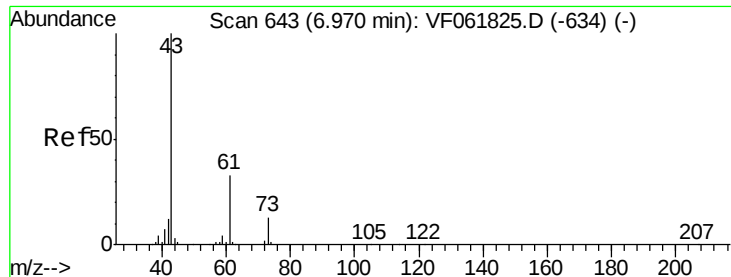
MMDadoda
3/5/2019 10:48:21 AM



#42
1,2-Dichloroethane
Concen: 2.965 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		8822		
98	15.0	0.0	21.0		





#43

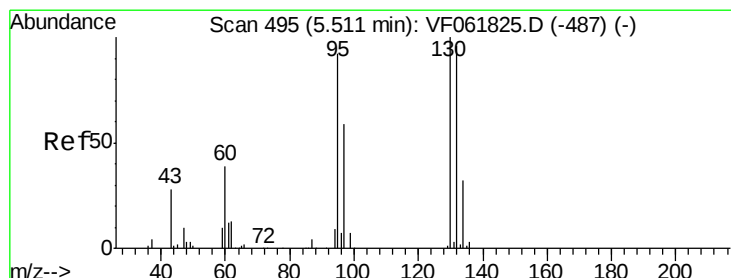
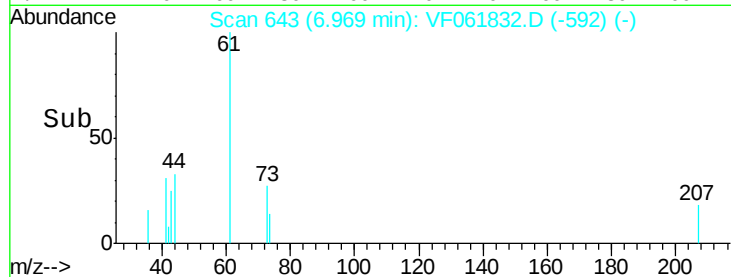
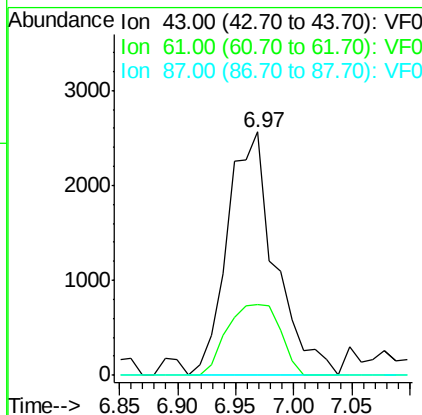
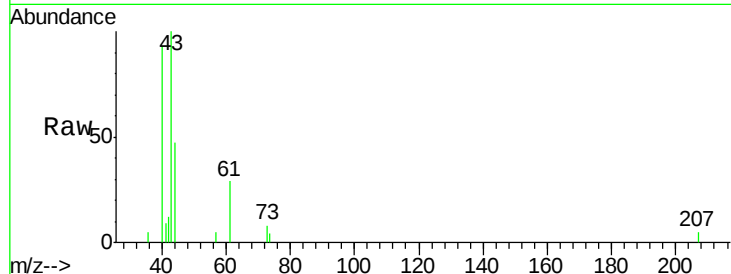
Isopropyl Acetate
 Concen: 3.076 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.9	26.1	39.1
87	0.0	0.0	0.0

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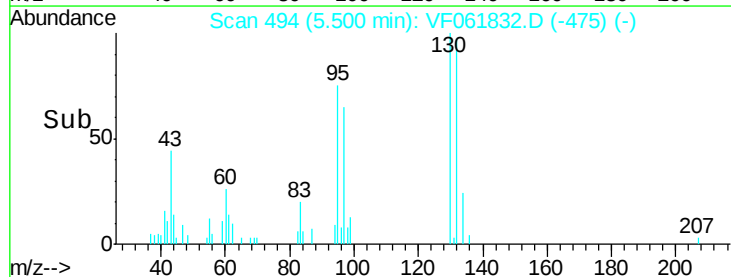
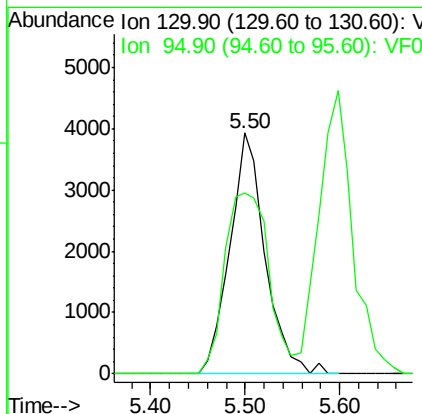
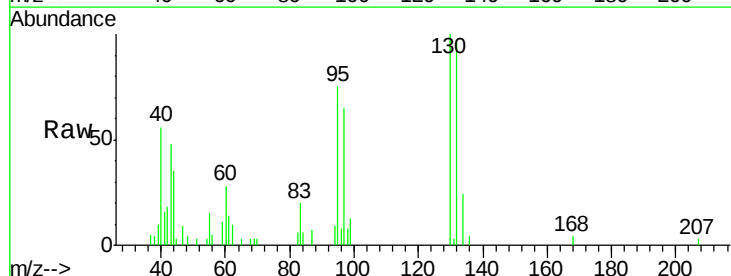
MMDadoda
 3/5/2019 10:48:21 AM

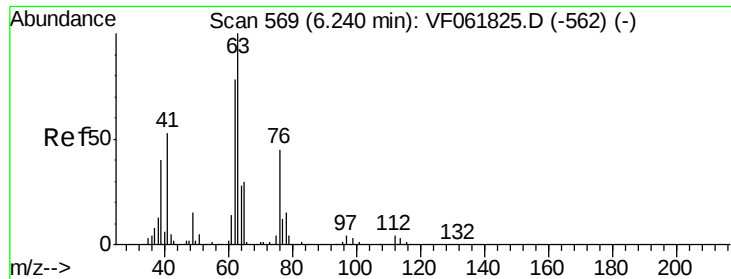


#44

Trichloroethene
 Concen: 2.731 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
130	100		
95	75.2	0.0	184.0





#45

1,2-Dichloropropane

Concen: 2.573 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 63 Resp: 7307

Ion Ratio Lower Upper

63 100

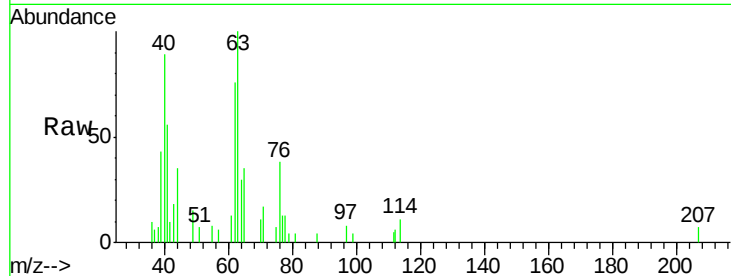
65 34.6 24.0 36.0

Manual Integrations

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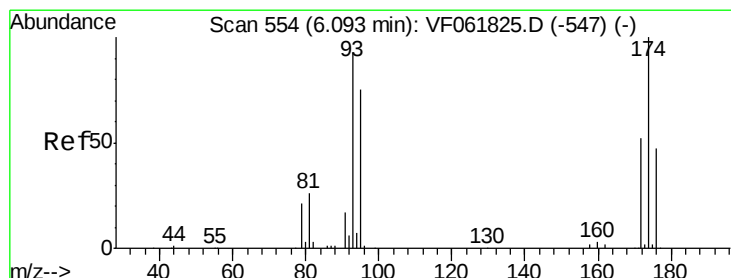
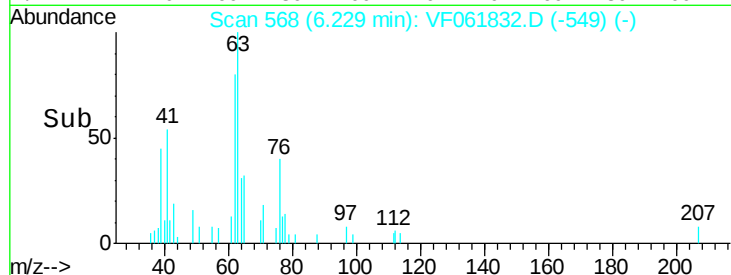
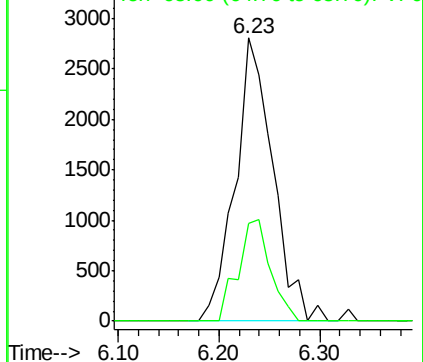
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 2.405 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

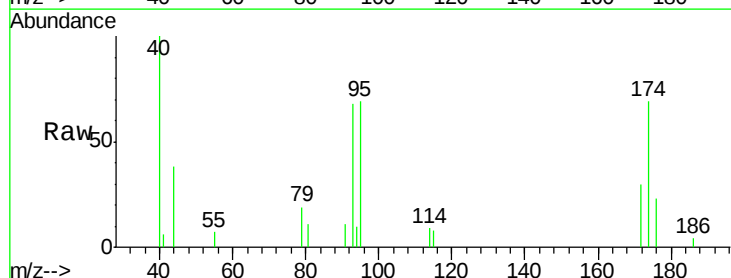
Tgt Ion: 93 Resp: 4298

Ion Ratio Lower Upper

93 100

95 101.1 64.4 96.6#

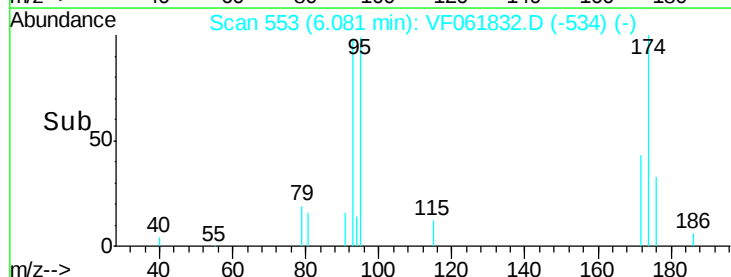
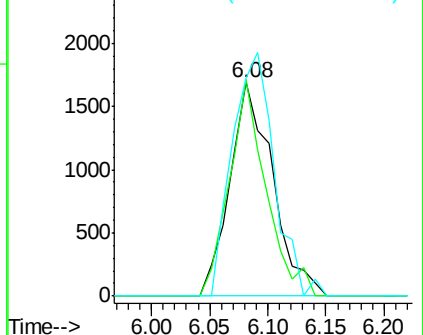
174 102.0 85.8 128.6

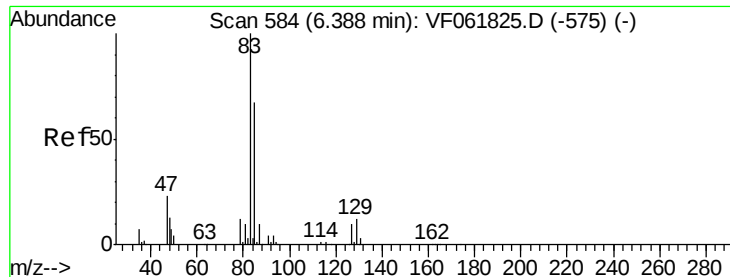


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 2.697 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

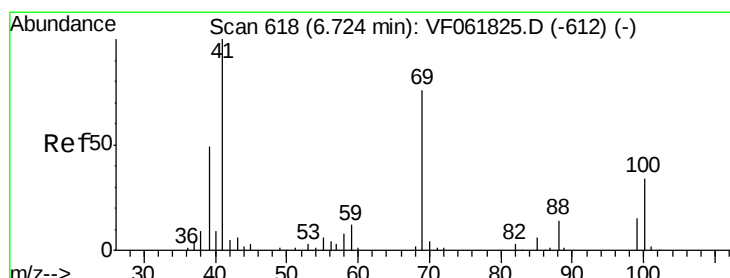
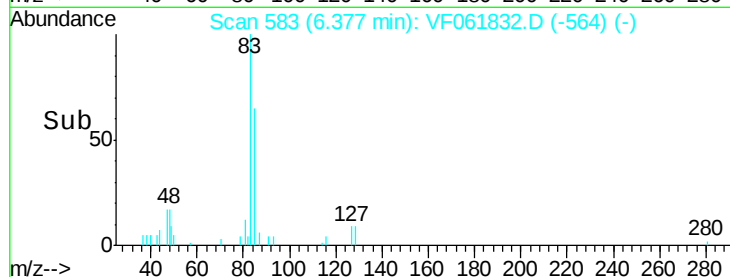
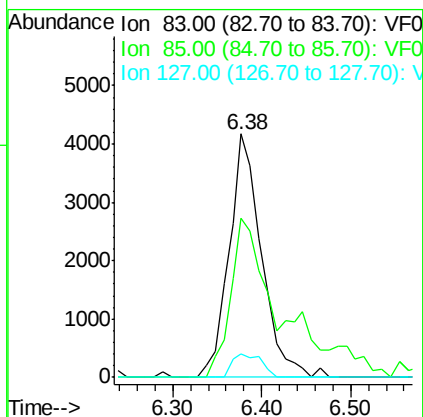
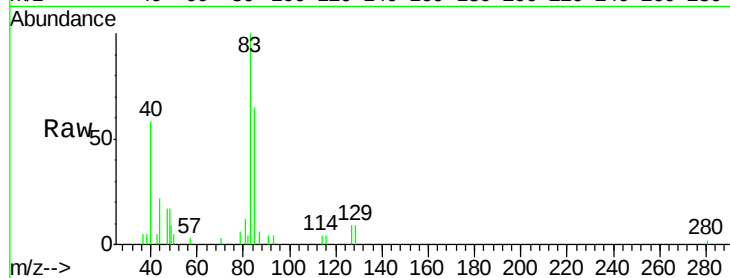
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:	83	Resp:	10648
Ion Ratio	Lower	Upper	
83	100		
85	65.3	53.6	80.4
127	9.5	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 3.793 ug/l

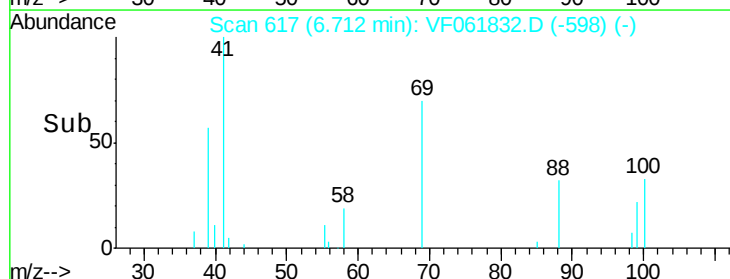
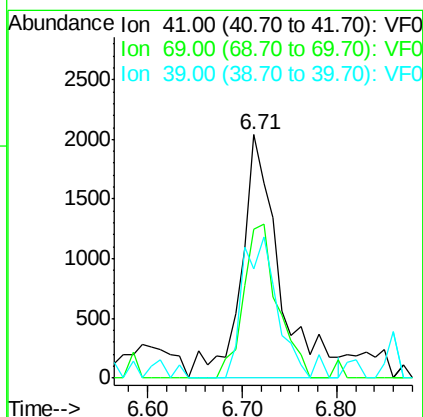
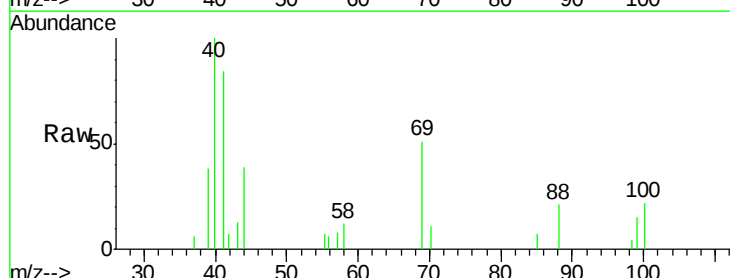
RT: 6.71 min Scan# 617

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	41	Resp:	5674
Ion Ratio	Lower	Upper	
41	100		
69	61.4	60.4	90.6
39	45.0	39.7	59.5





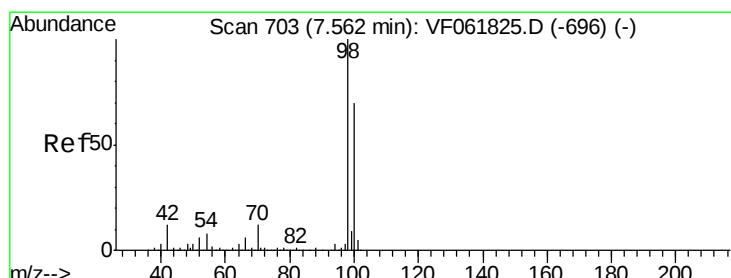
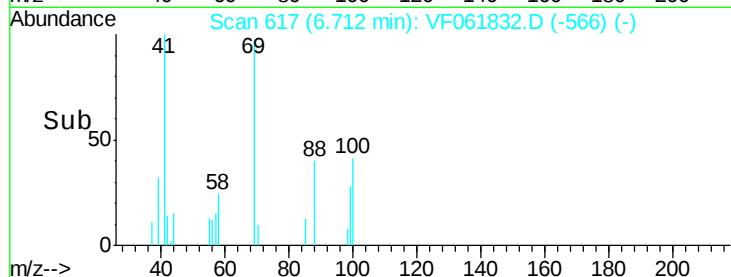
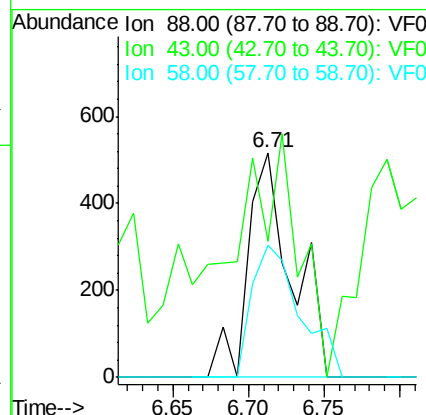
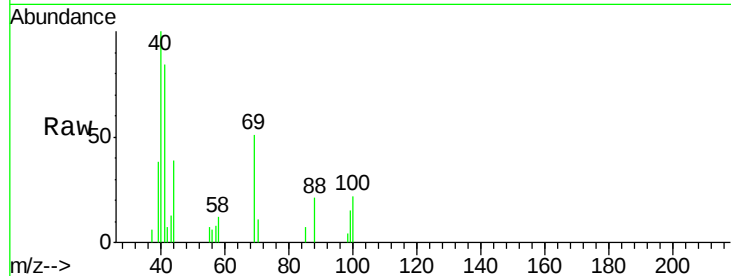
#49
1,4-Dioxane
Concen: 77.005 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	60.7		28.4	42.6#
58	59.0		50.7	76.1

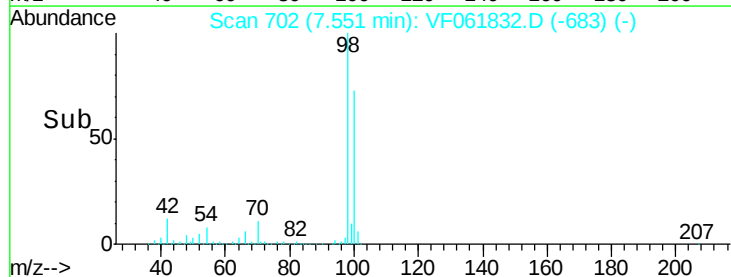
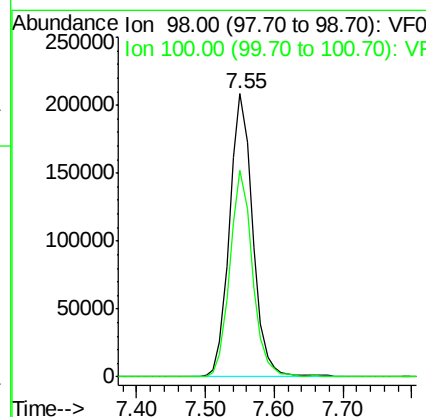
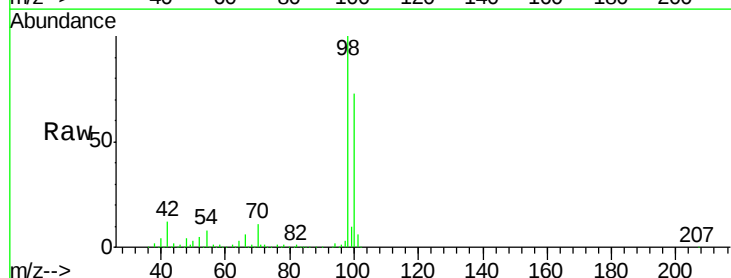
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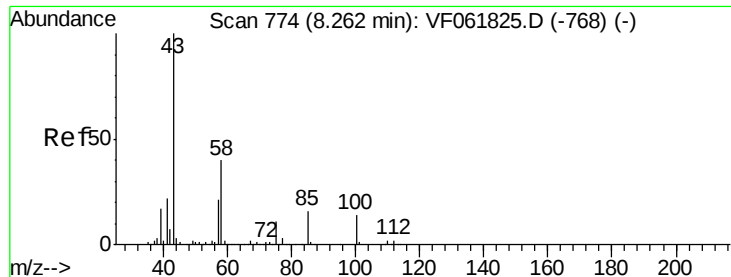
MMDadoda
3/5/2019 10:48:21 AM



#50
Toluene-d8
Concen: 48.803 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	73.0		56.0	84.0





#51

4-Methyl-2-Pentanone

Concen: 16.047 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 26214

Ion Ratio Lower Upper

43 100

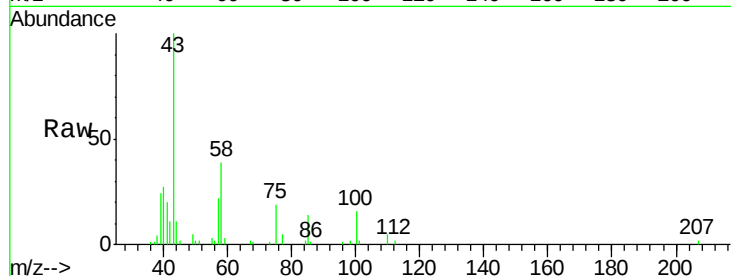
58 39.3 31.8 47.8

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

12000

10000

8000

6000

4000

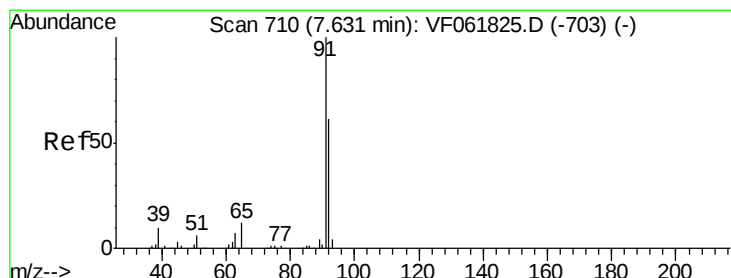
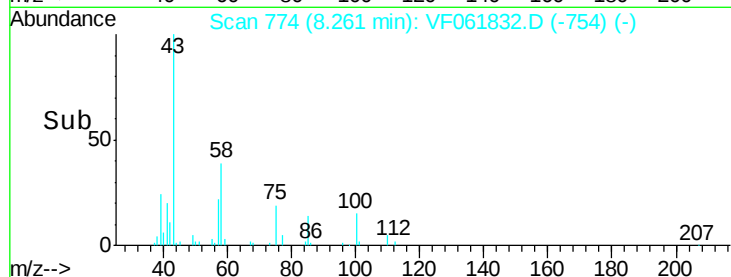
2000

0

8.20

8.30

Time-->



#52

Toluene

Concen: 2.714 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061832.D

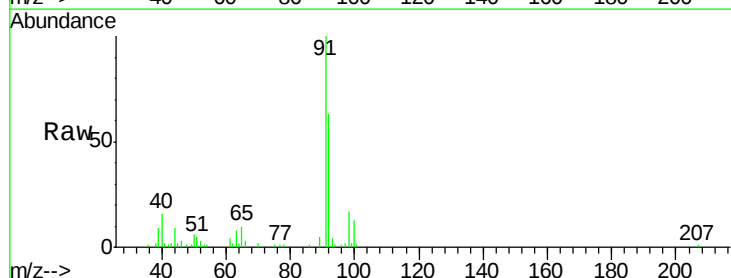
Acq: 4 Mar 2019 21:48

Tgt Ion: 92 Resp: 19173

Ion Ratio Lower Upper

92 100

91 159.9 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

15000

10000

5000

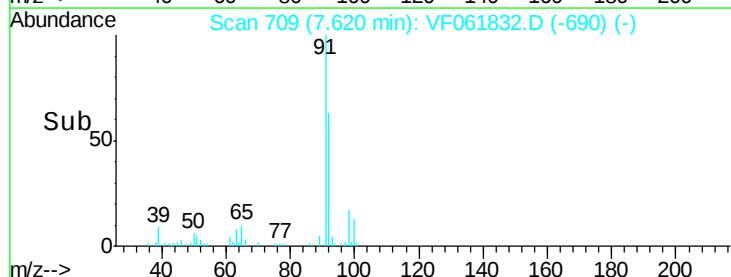
0

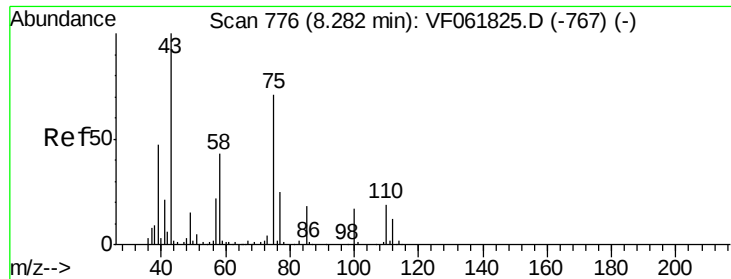
7.50

7.60

7.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.590 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 75 Resp: 8441

Ion Ratio Lower Upper

75 100

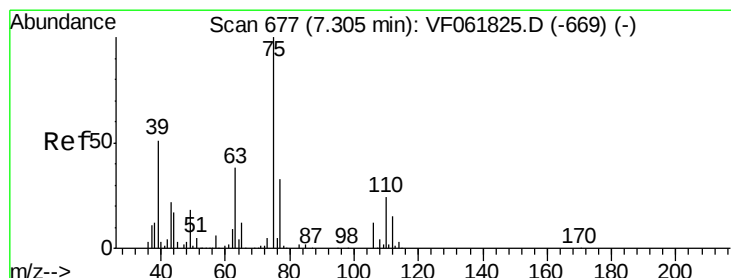
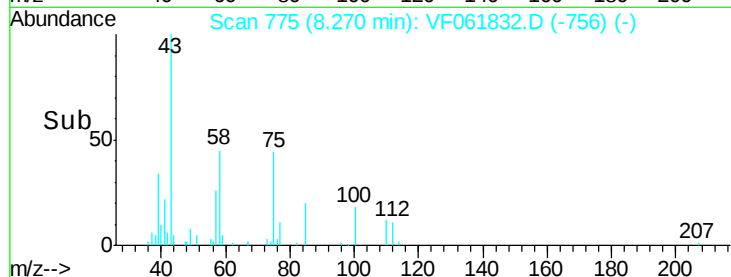
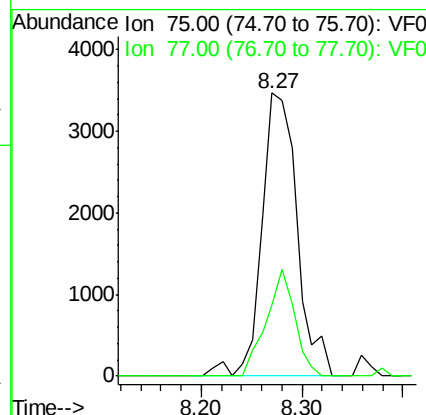
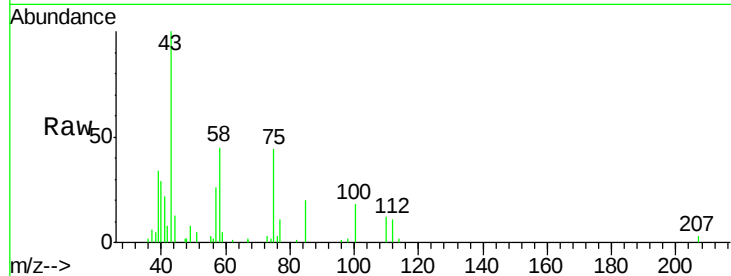
77 25.2 28.0 42.0#

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 2.589 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

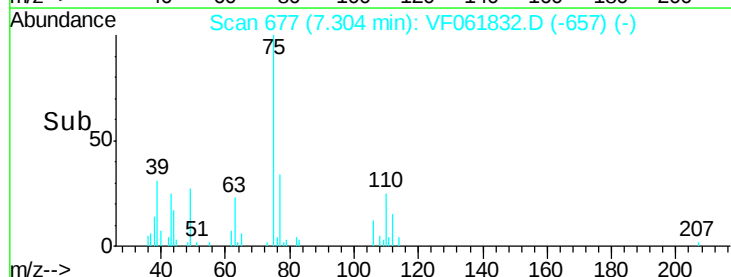
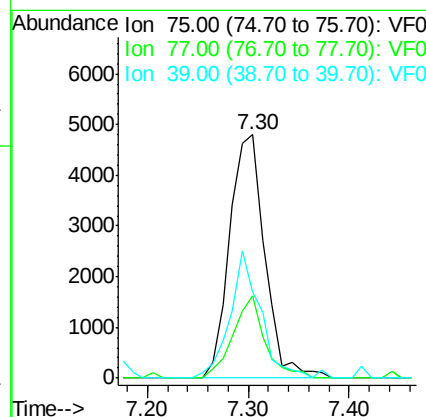
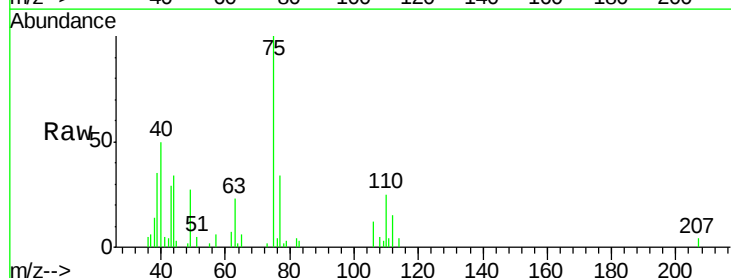
Tgt Ion: 75 Resp: 11639

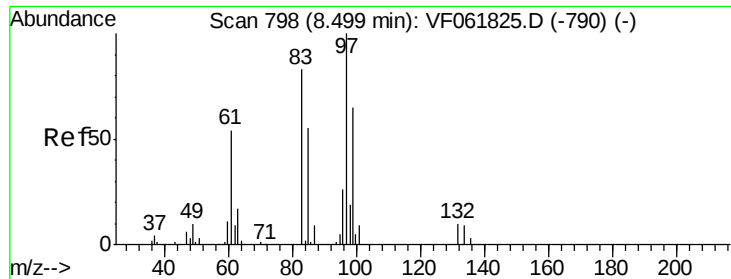
Ion Ratio Lower Upper

75 100

77 33.9 26.3 39.5

39 35.2 40.8 61.2#





#55

1,1,2-Trichloroethane

Concen: 2.703 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

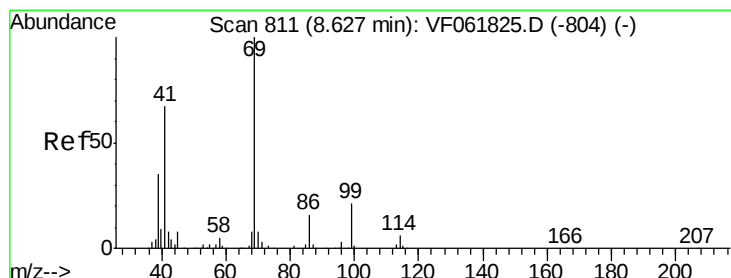
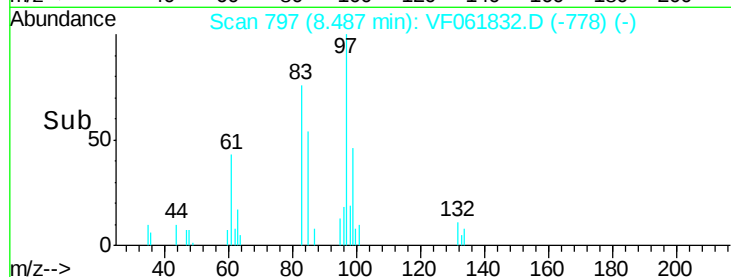
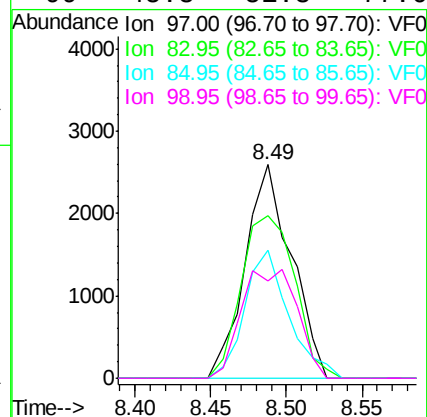
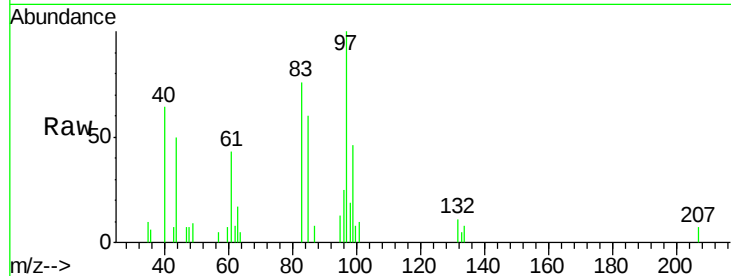
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:	97	Resp:	5501
Ion	Ratio	Lower	Upper
97	100		
83	76.2	66.5	99.7
85	59.9	44.2	66.2
99	45.8	51.8	77.6#

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#56

Ethyl methacrylate

Concen: 3.035 ug/l

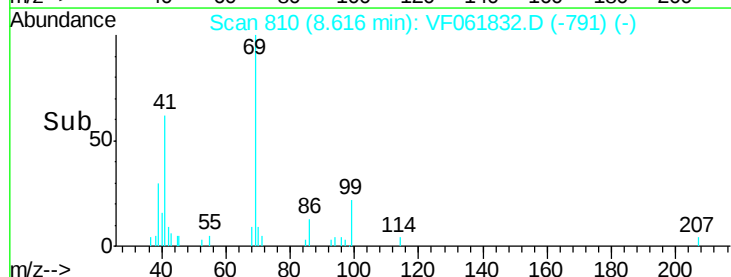
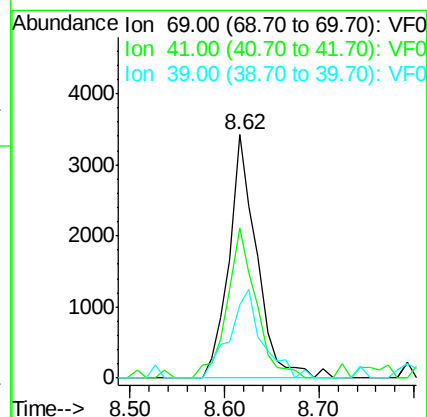
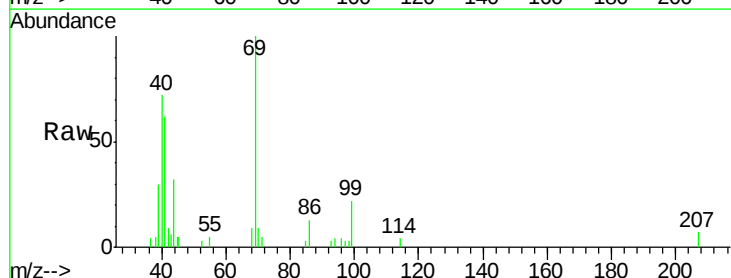
RT: 8.62 min Scan# 810

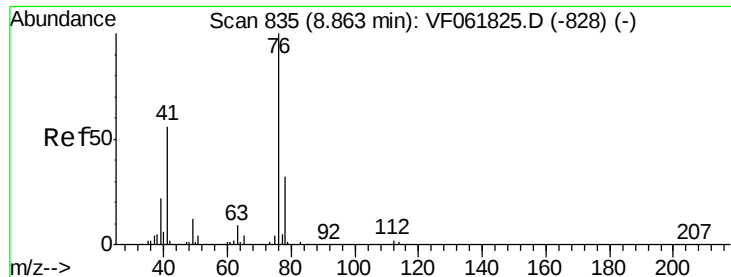
Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	69	Resp:	6961
Ion	Ratio	Lower	Upper
69	100		
41	61.5	53.9	80.9
39	30.1	28.3	42.5





#57

1,3-Dichloropropane

Concen: 2.919 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 76 Resp: 9717

Ion Ratio Lower Upper

76 100

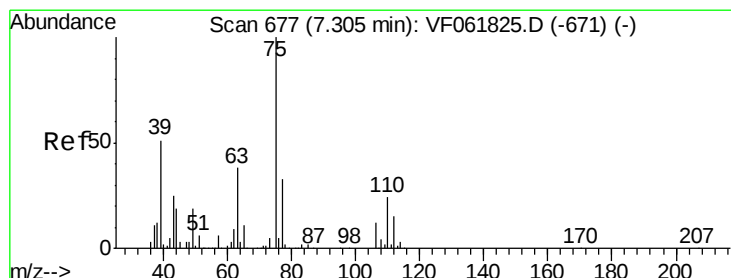
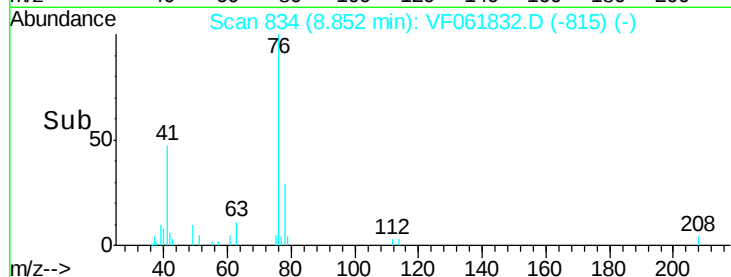
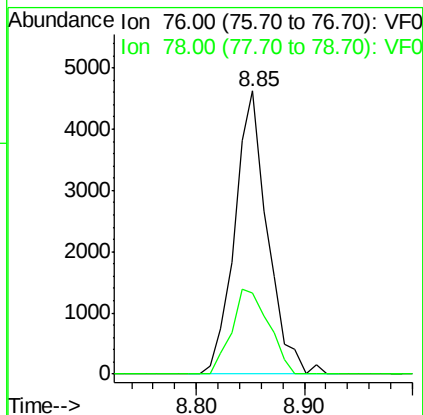
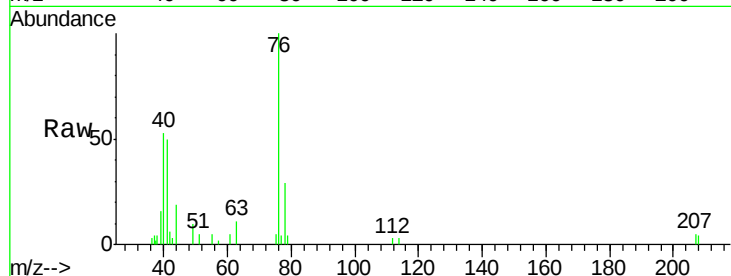
78 28.6 25.4 38.2

Manual Integrations

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MMDadoda

3/5/2019 10:48:21 AM



#58

2-Chloroethyl Vinyl ether

Concen: 10.183 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061832.D

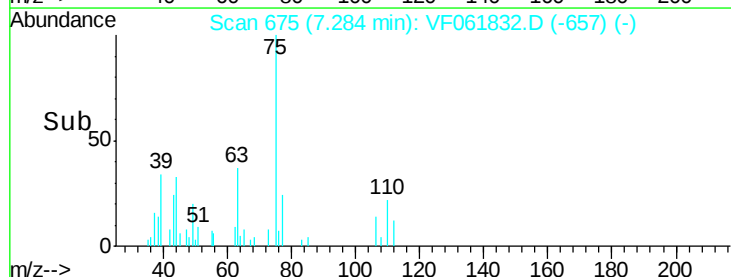
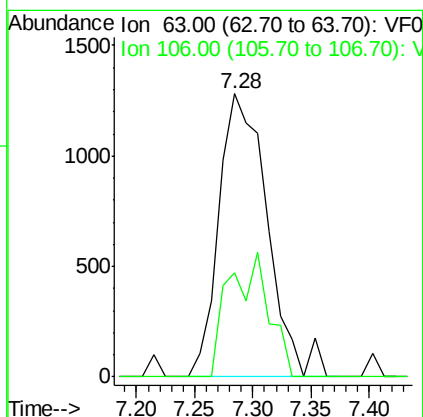
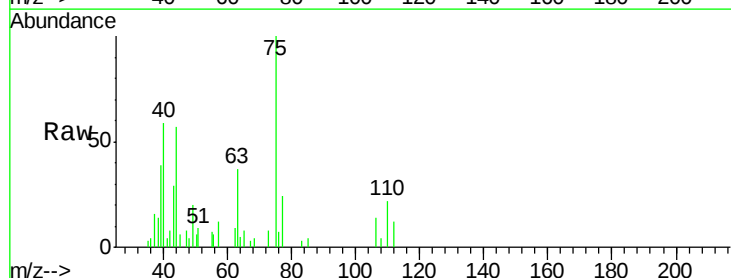
Acq: 4 Mar 2019 21:48

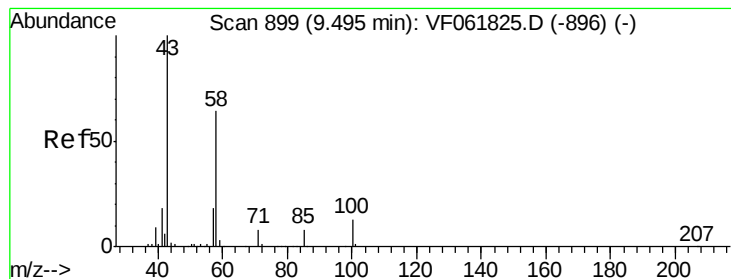
Tgt Ion: 63 Resp: 3695

Ion Ratio Lower Upper

63 100

106 36.7 24.3 36.5#





#59

2-Hexanone

Concen: 18.161 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 21402

Ion Ratio Lower Upper

43 100

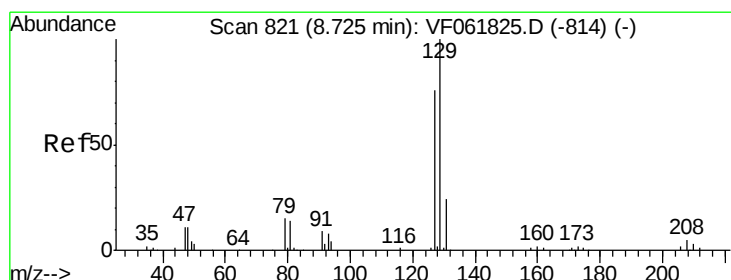
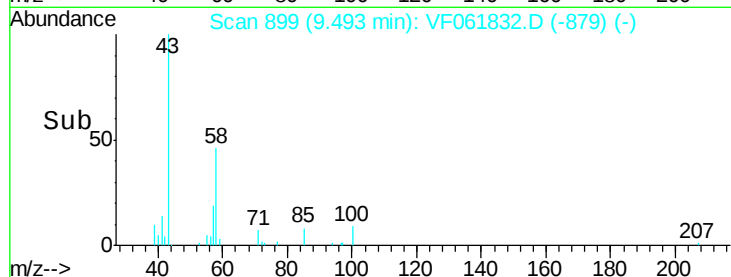
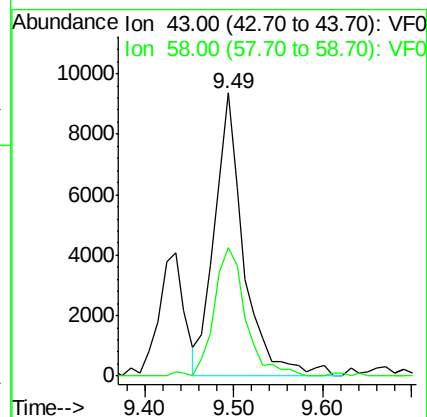
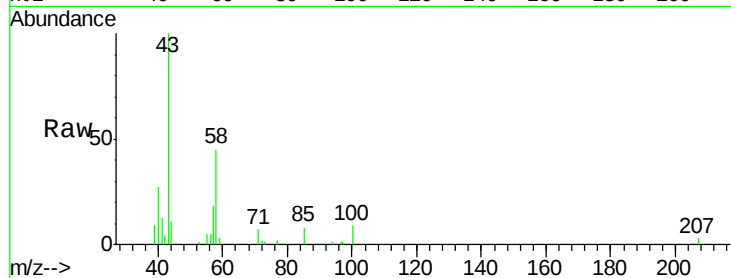
58 45.4 28.8 86.4

Manual Integrations

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#60

Dibromochloromethane

Concen: 2.407 ug/l

RT: 8.71 min Scan# 820

Delta R.T. -0.01 min

Lab File: VF061832.D

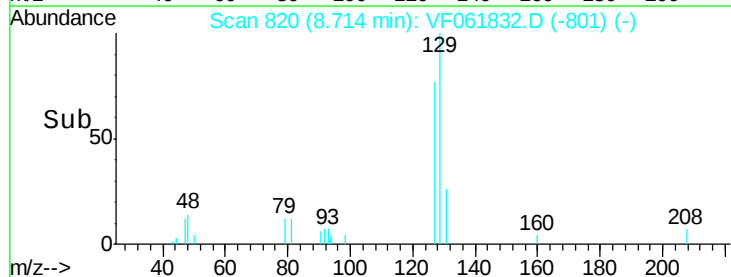
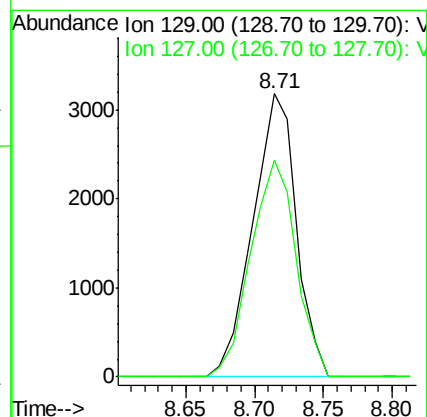
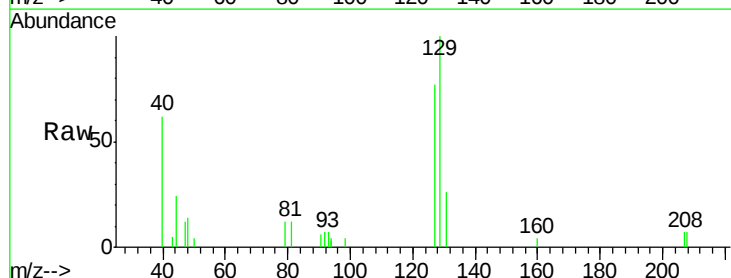
Acq: 4 Mar 2019 21:48

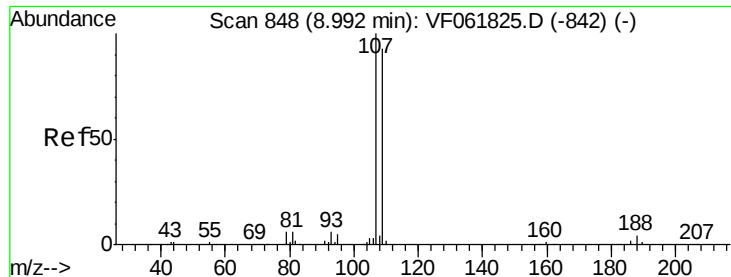
Tgt Ion: 129 Resp: 6983

Ion Ratio Lower Upper

129 100

127 76.8 38.2 114.6





#61

1,2-Dibromoethane

Concen: 2.695 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 107 Resp: 6031

Ion Ratio Lower Upper

107 100

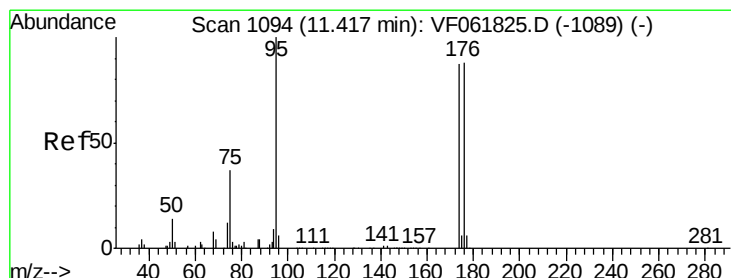
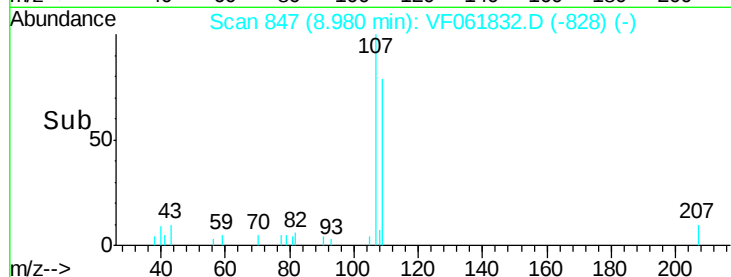
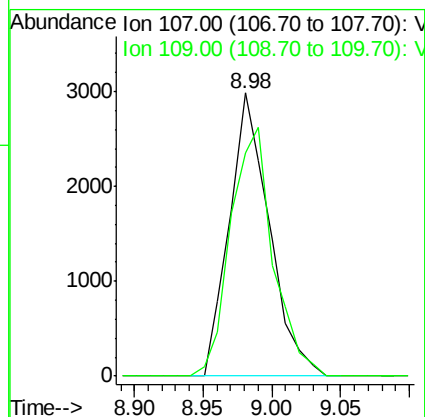
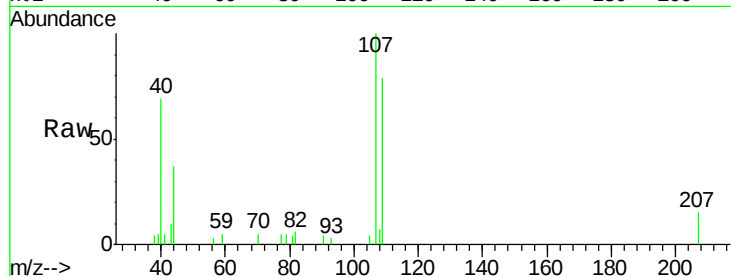
109 79.1 74.6 112.0

Manual Integrations

APPROVED

MMDadoda

3/5/2019 10:48:21 AM



#62

4-Bromofluorobenzene

Concen: 52.367 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

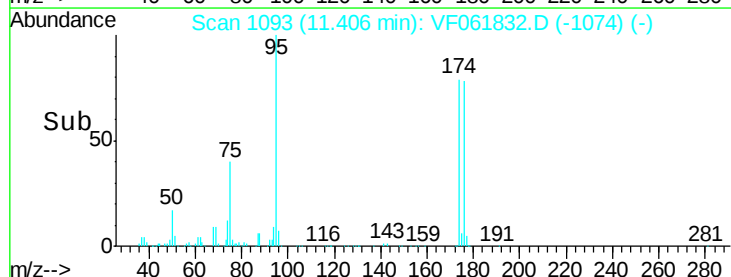
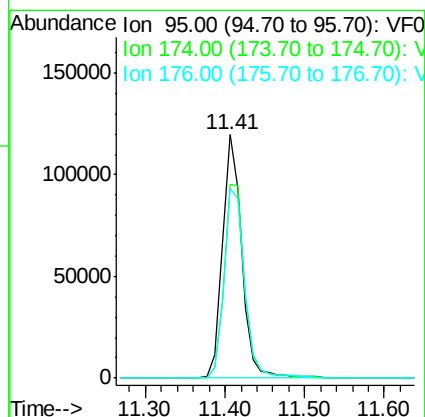
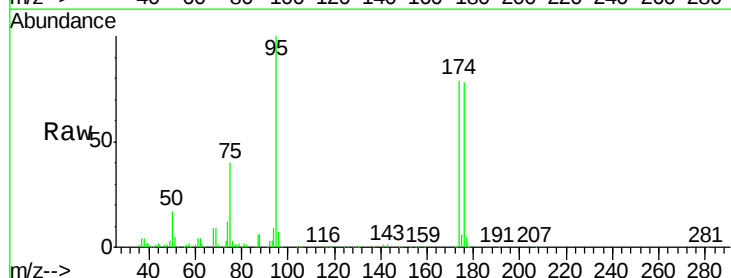
Tgt Ion: 95 Resp: 205784

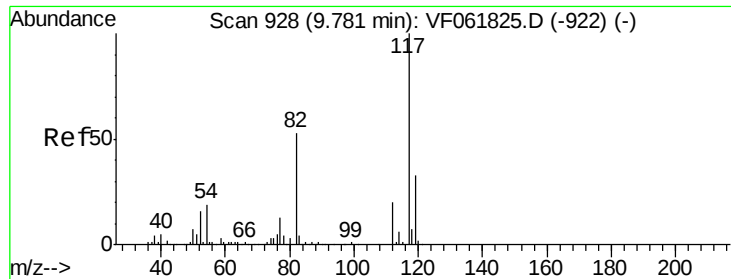
Ion Ratio Lower Upper

95 100

174 79.4 0.0 174.0

176 78.1 0.0 175.2





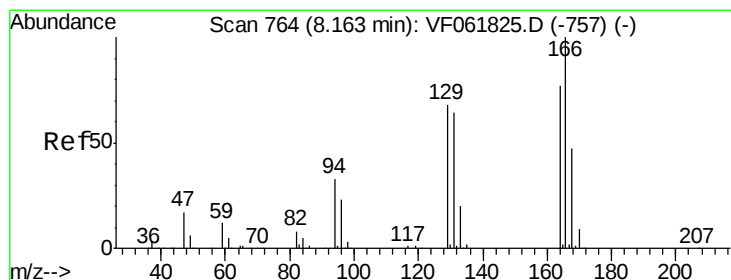
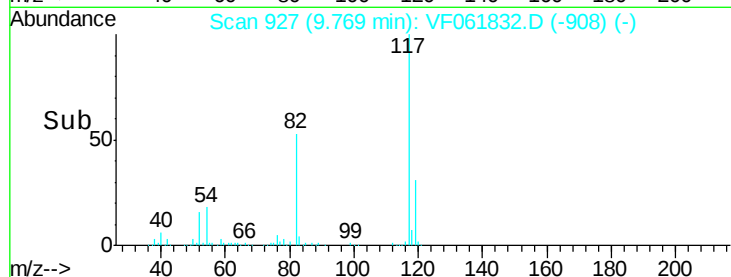
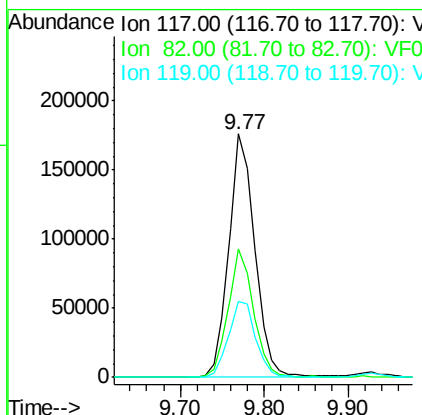
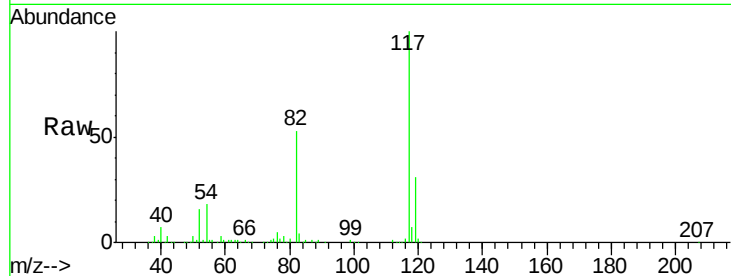
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	381919		
82	52.5		42.6	63.8
119	31.3		26.0	39.0

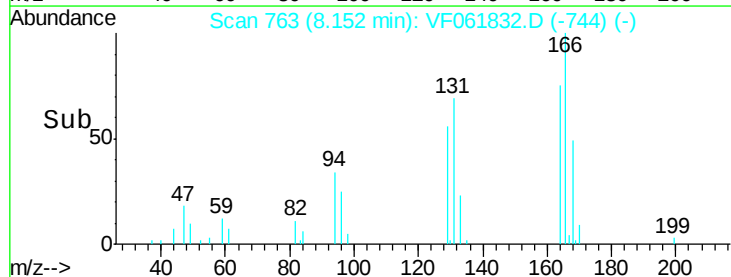
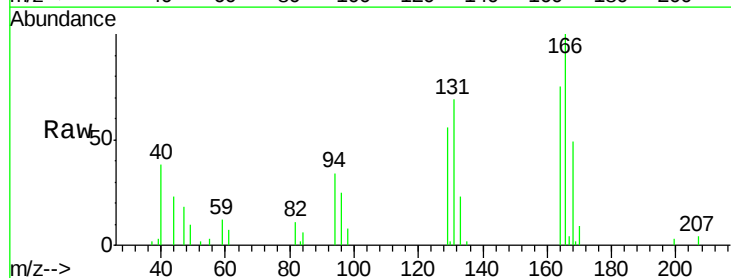
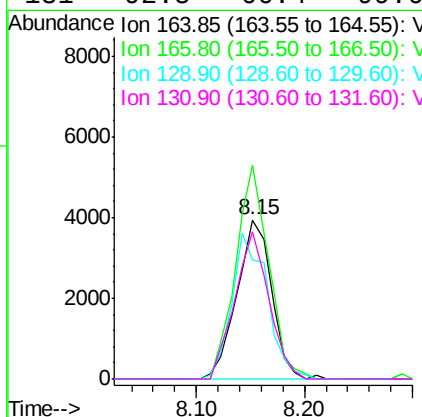
Manual Integrations
APPROVED

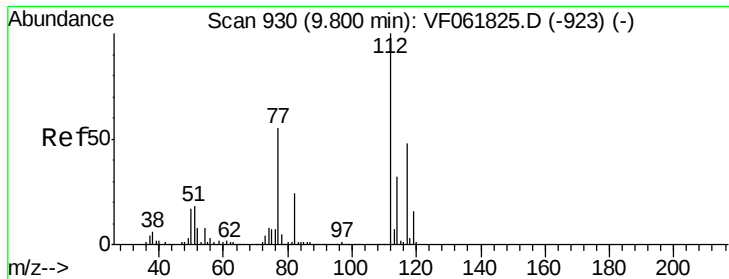
MMDadoda
3/5/2019 10:48:21 AM



#64
Tetrachloroethene
Concen: 3.018 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	8858		
166	134.2		103.4	155.0
129	74.7		69.9	104.9
131	92.5		66.4	99.6





#65

Chlorobenzene

Concen: 3.117 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:112 Resp: 22869

Ion Ratio Lower Upper

112 100

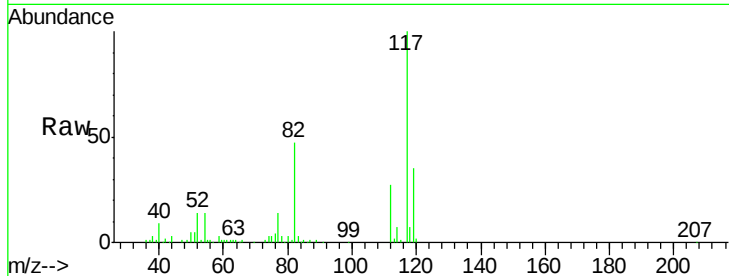
114 27.6 25.5 38.3

Manual Integrations

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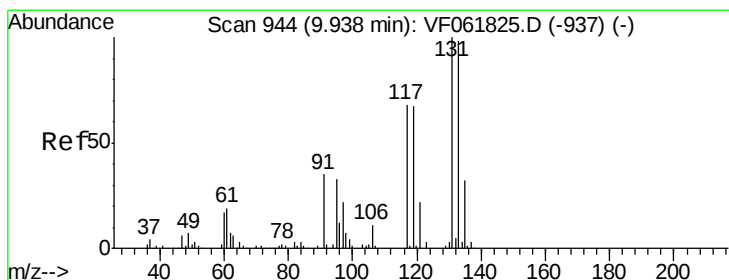
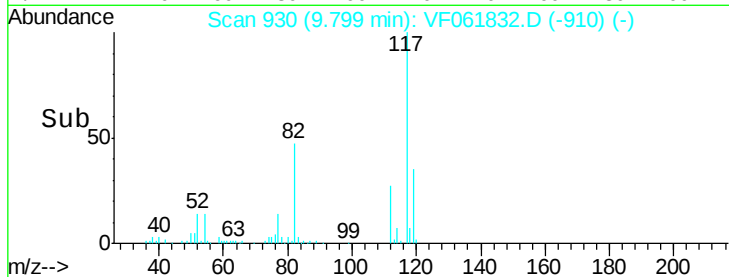
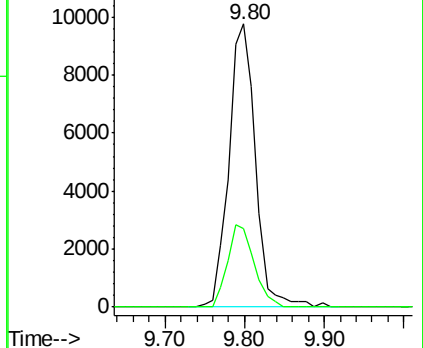
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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.868 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

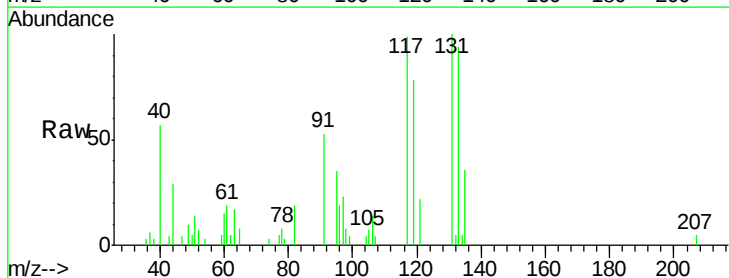
Tgt Ion:131 Resp: 8153

Ion Ratio Lower Upper

131 100

133 93.7 48.9 146.7

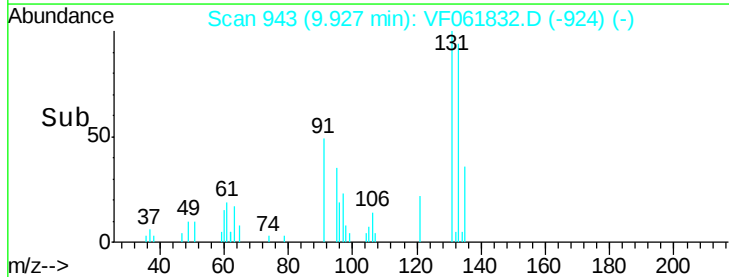
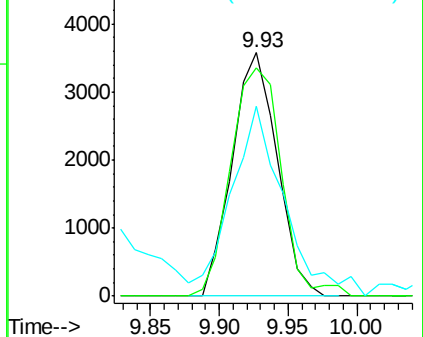
119 77.8 33.6 100.8

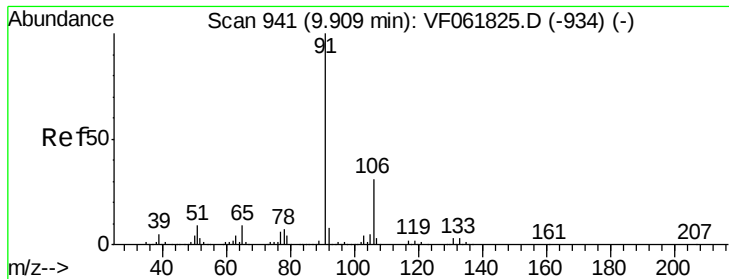


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 3.006 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 91 Resp: 36558

Ion Ratio Lower Upper

91 100

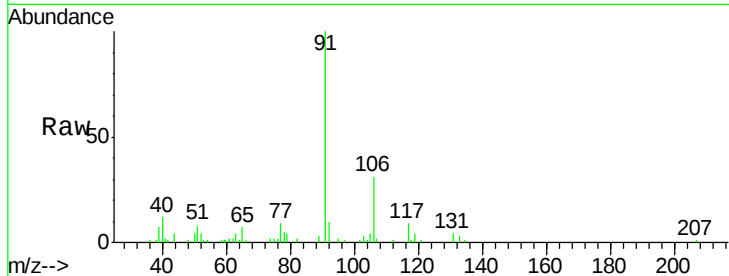
106 30.8 25.0 37.4

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

20000

15000

10000

5000

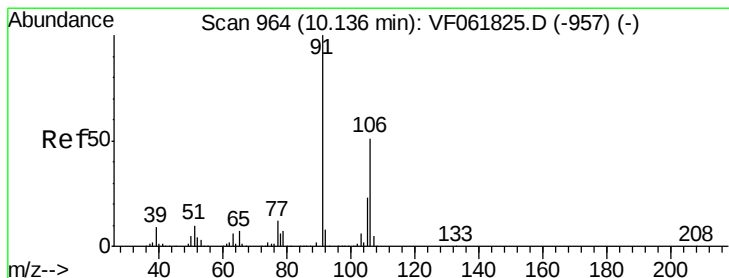
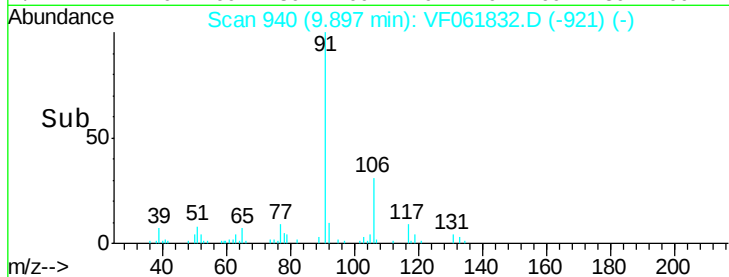
0

9.80

9.90

10.00

Time-->



#68

m/p-Xylenes

Concen: 5.926 ug/l

RT: 10.12 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061832.D

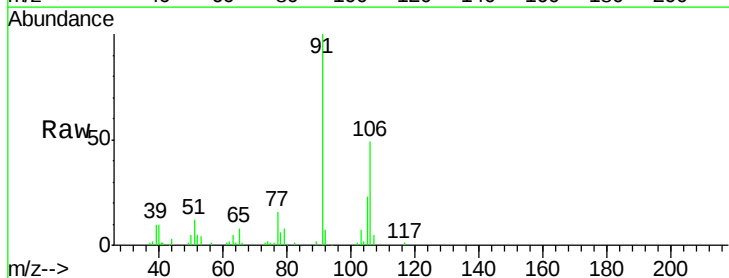
Acq: 4 Mar 2019 21:48

Tgt Ion: 106 Resp: 27611

Ion Ratio Lower Upper

106 100

91 203.0 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

30000

25000

20000

15000

10000

5000

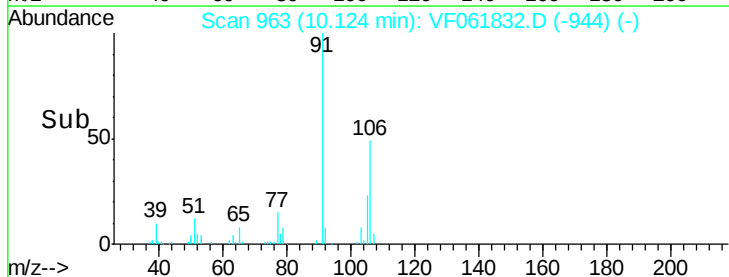
0

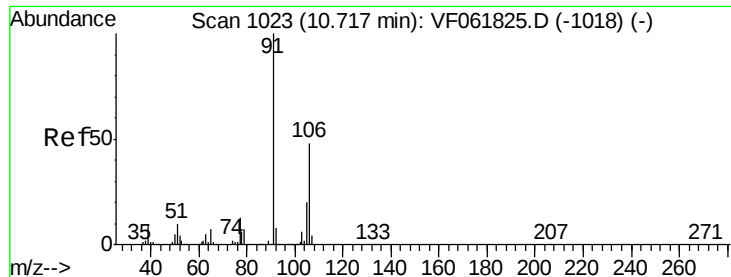
10.00

10.12

10.20

Time-->





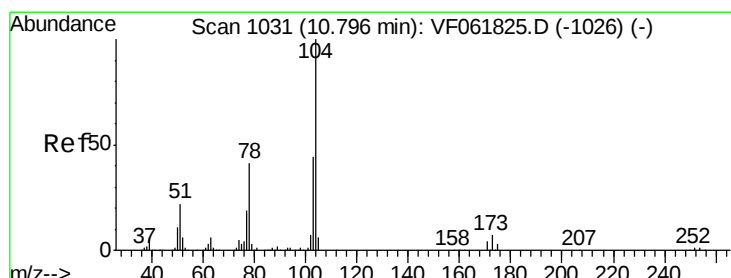
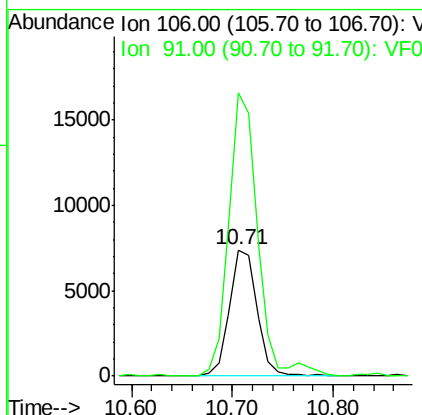
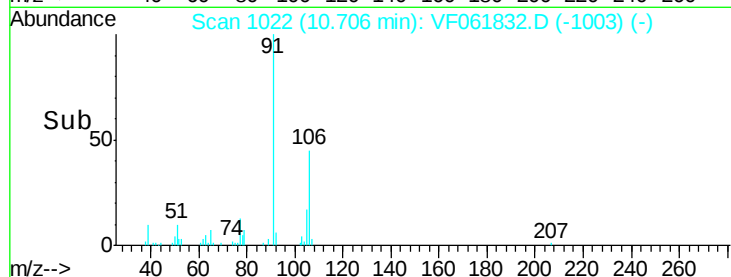
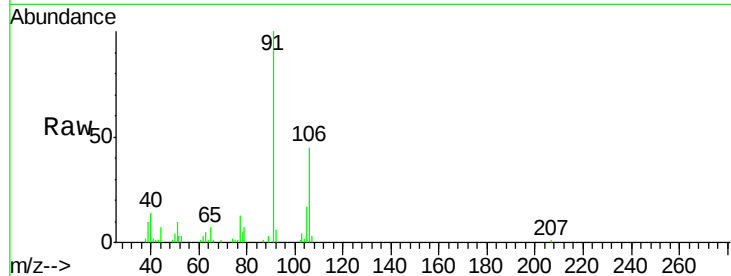
#69
o-Xylene
Concen: 2.801 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:106 Resp: 14051
Ion Ratio Lower Upper
106 100
91 224.4 103.5 310.3

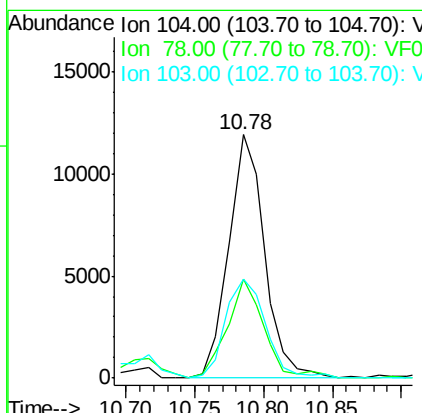
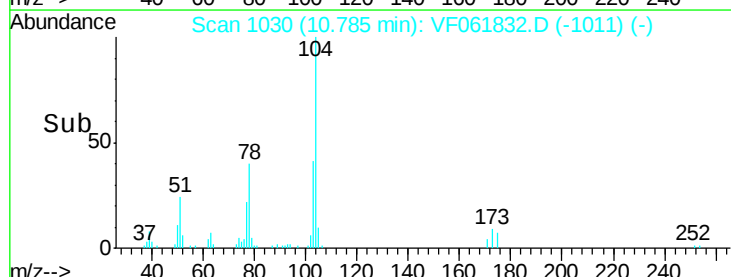
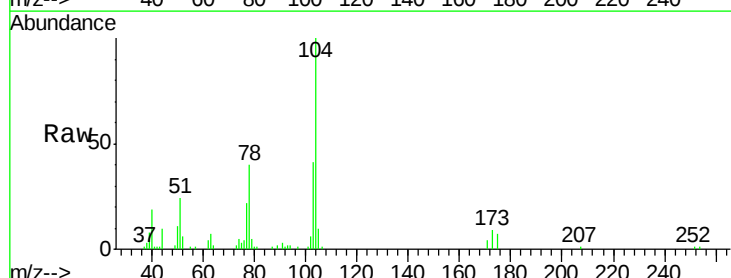
Manual Integrations
APPROVED

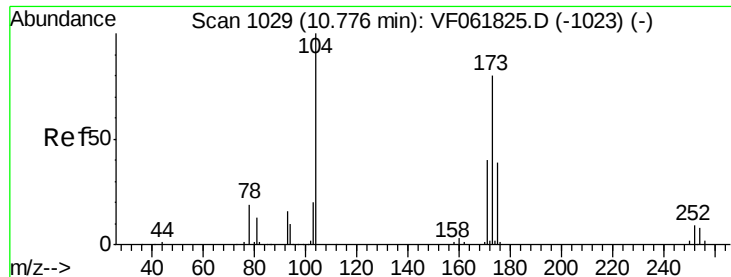
MMDadoda
3/5/2019 10:48:21 AM



#70
Styrene
Concen: 3.079 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion:104 Resp: 21741
Ion Ratio Lower Upper
104 100
78 40.5 33.3 49.9
103 40.8 35.4 53.0





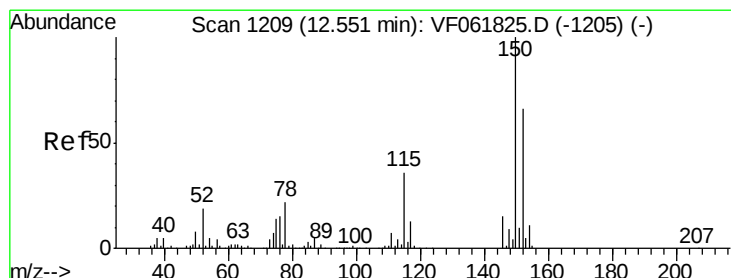
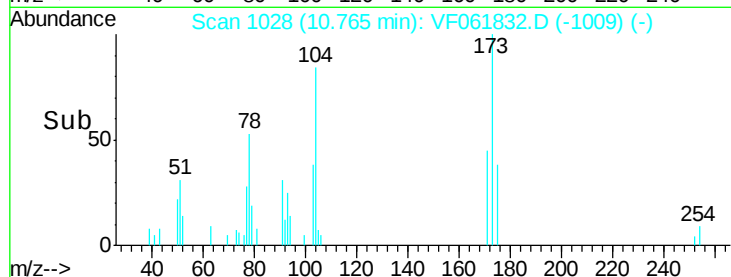
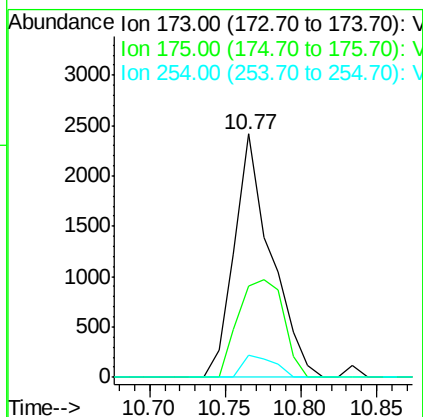
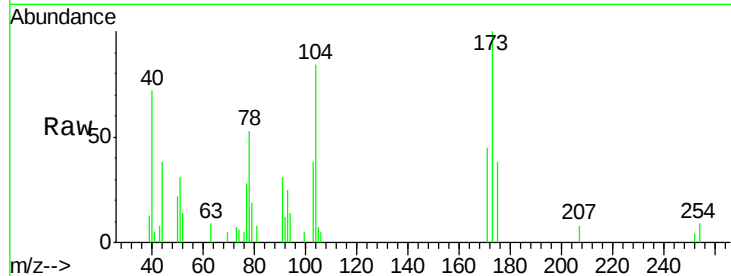
#71
Bromoform
Concen: 2.726 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:173 Resp: 4096
Ion Ratio Lower Upper
173 100
175 37.7 24.5 73.5
254 9.1 8.0 12.0

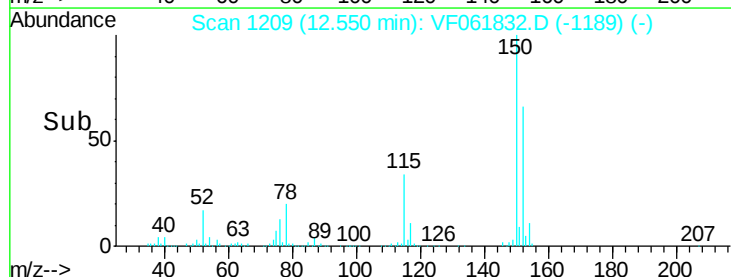
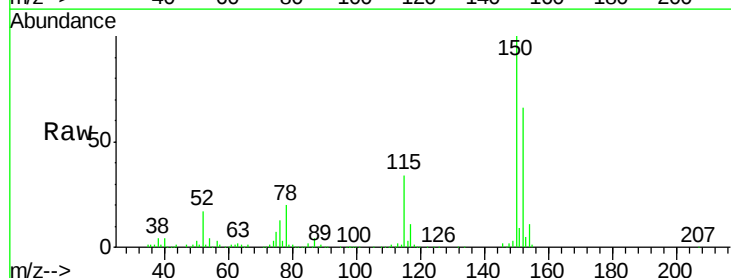
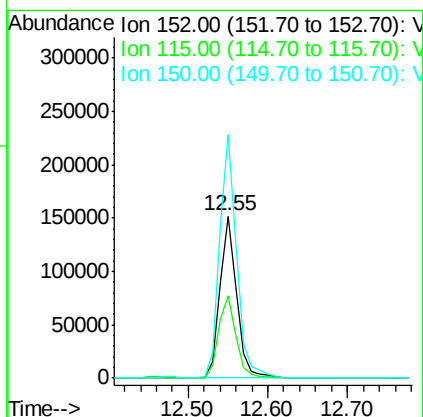
Manual Integrations
APPROVED

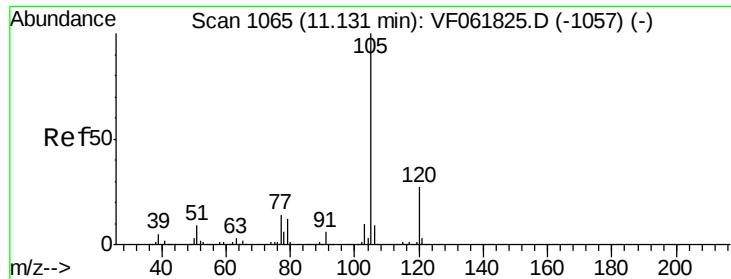
MMDadoda
3/5/2019 10:48:21 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion:152 Resp: 226037
Ion Ratio Lower Upper
152 100
115 50.7 27.7 83.1
150 150.5 0.0 304.2





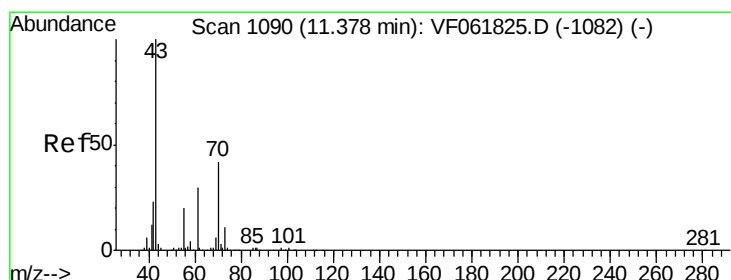
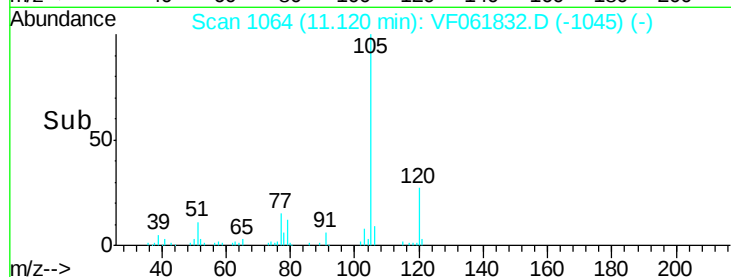
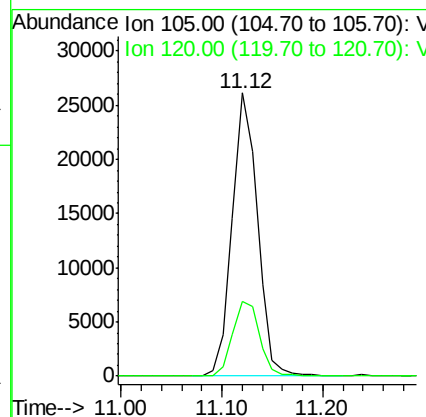
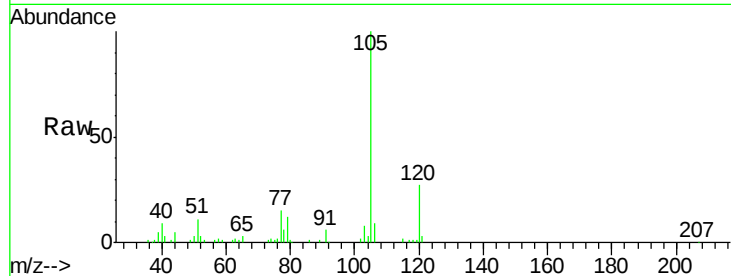
#73
Isopropylbenzene
Concen: 2.931 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:105 Resp: 45615
Ion Ratio Lower Upper
105 100
120 26.5 13.7 41.0

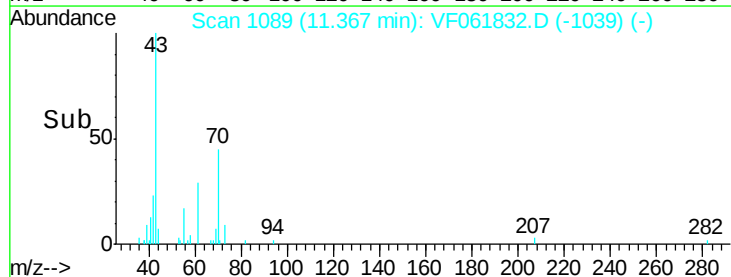
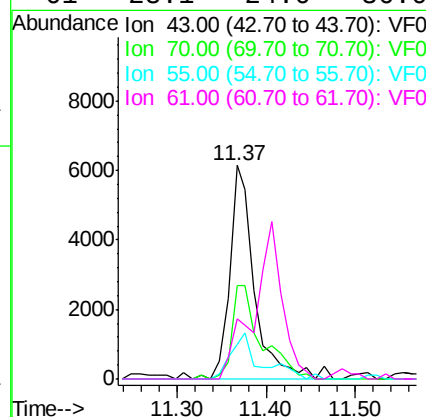
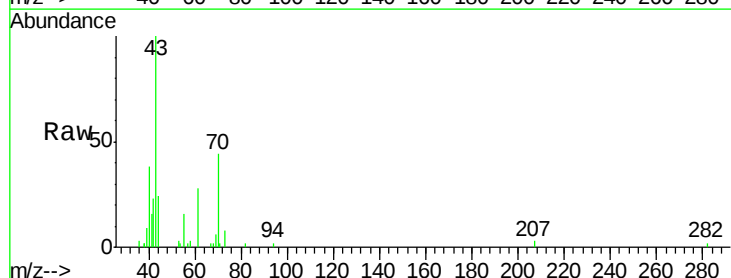
Manual Integrations
APPROVED

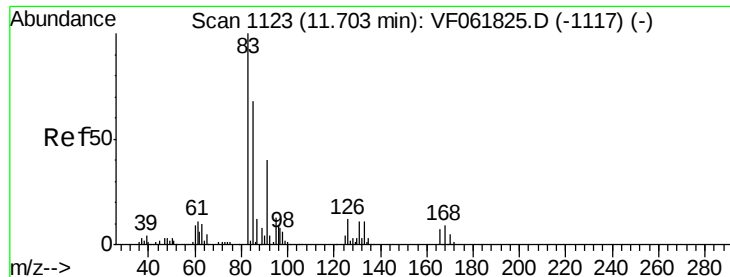
MMDadoda
3/5/2019 10:48:21 AM



#74
N-ethyl acetate
Concen: 3.361 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VF061832.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 43 Resp: 12040
Ion Ratio Lower Upper
43 100
70 44.1 33.4 50.0
55 16.5 16.3 24.5
61 28.1 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 3.135 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

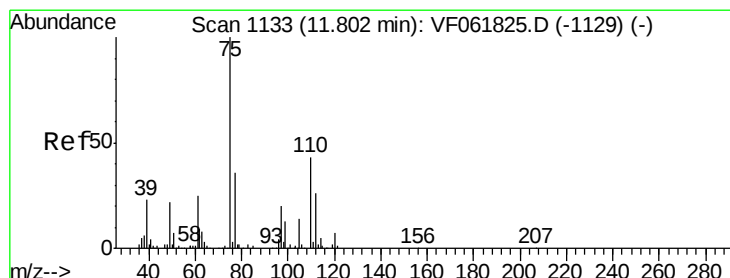
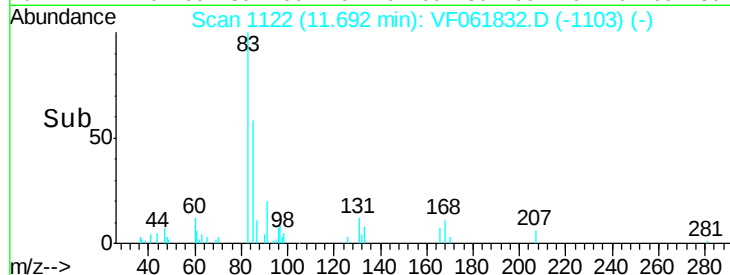
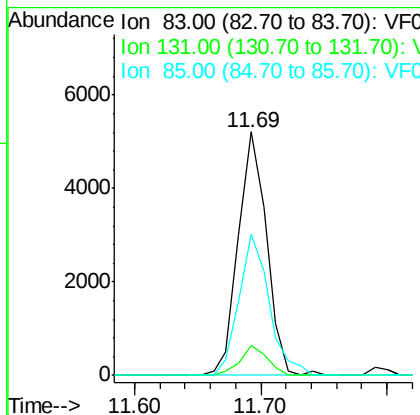
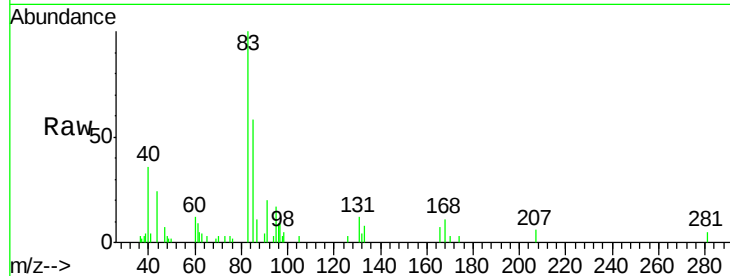
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion	83	Resp	8108
Ion	Ratio	Lower	Upper
83	100		
131	12.2	5.5	16.7
85	58.0	34.2	102.6

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#76

1,2,3-Trichloropropane

Concen: 3.023 ug/l

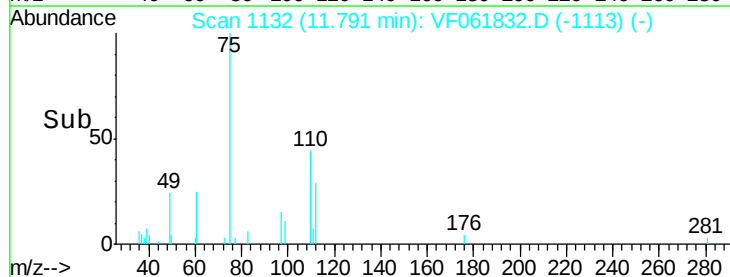
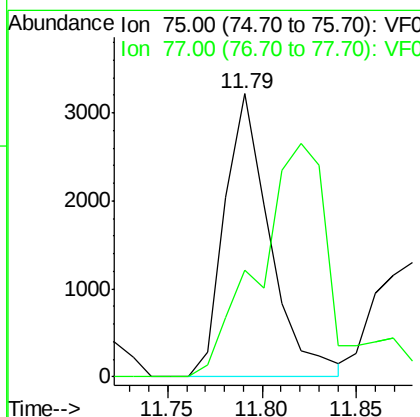
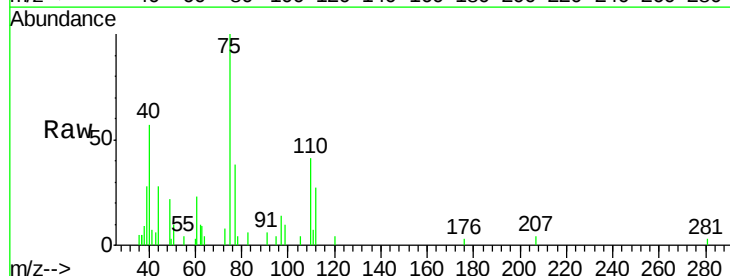
RT: 11.79 min Scan# 1132

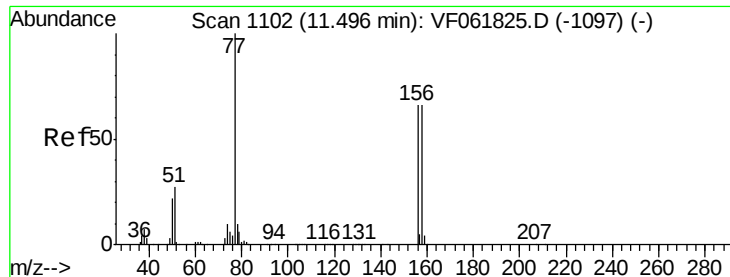
Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion	75	Resp	5337
Ion	Ratio	Lower	Upper
75	100		
77	37.7	18.1	54.4





#77

Bromobenzene

Concen: 2.871 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:156 Resp: 10751

Ion Ratio Lower Upper

156 100

77 126.3 75.7 227.1

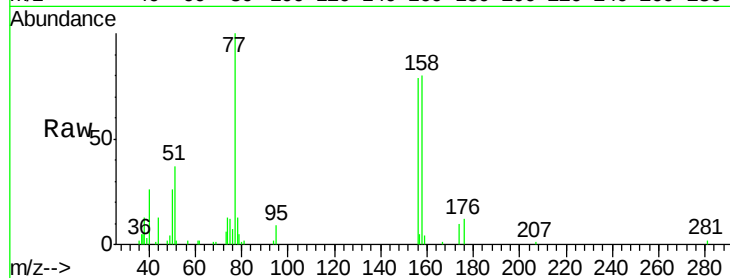
158 100.8 50.0 150.1

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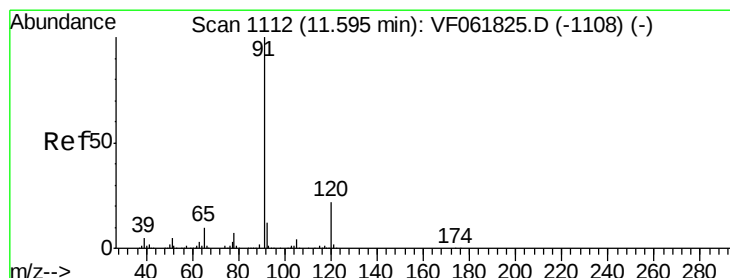
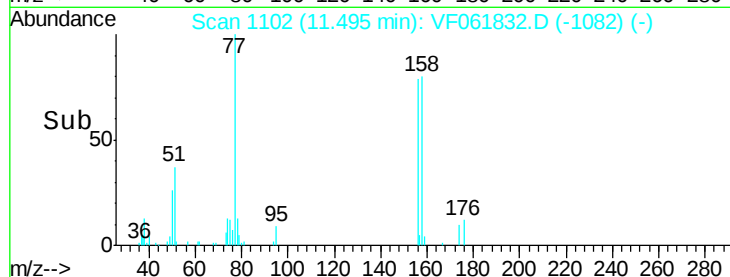
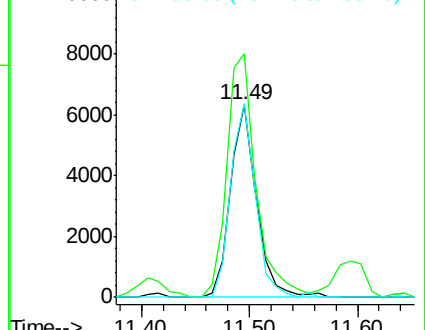
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 3.171 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061832.D

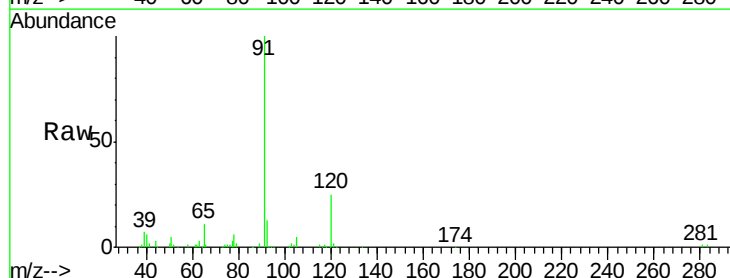
Acq: 4 Mar 2019 21:48

Tgt Ion: 91 Resp: 55724

Ion Ratio Lower Upper

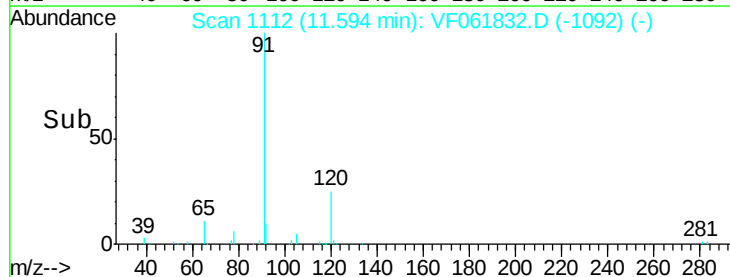
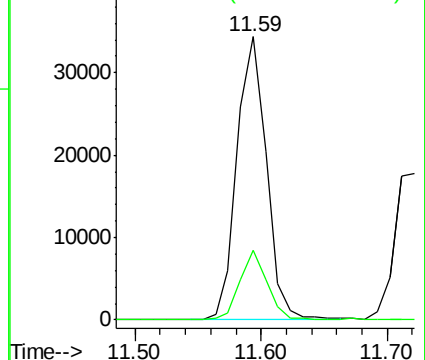
91 100

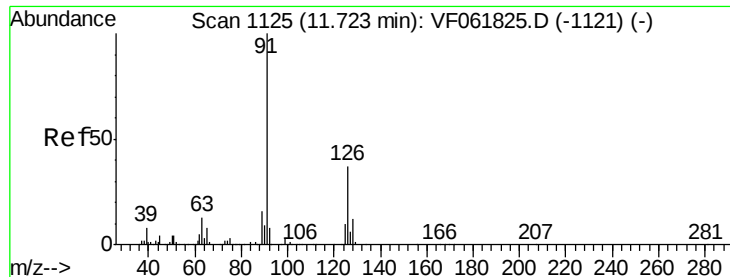
120 24.7 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 3.014 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 91 Resp: 30278

Ion Ratio Lower Upper

91 100

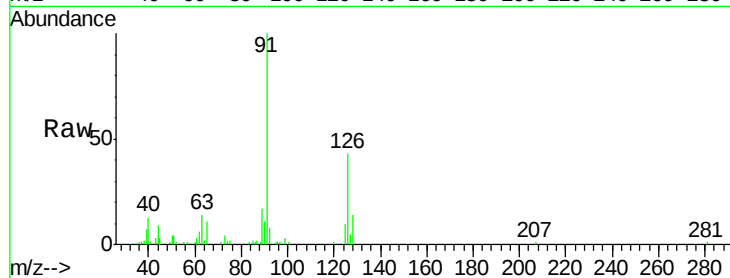
126 42.6 18.1 54.4

Manual Integrations

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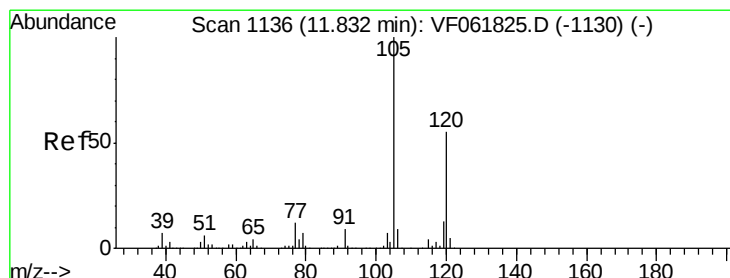
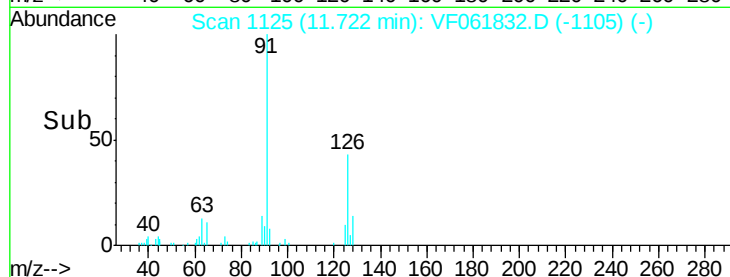
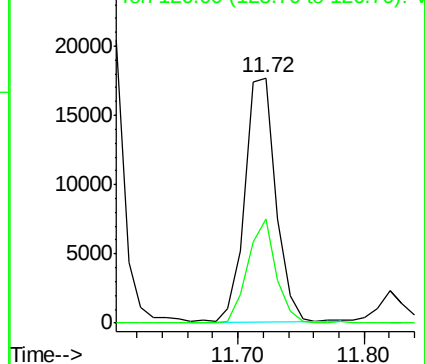
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 2.949 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061832.D

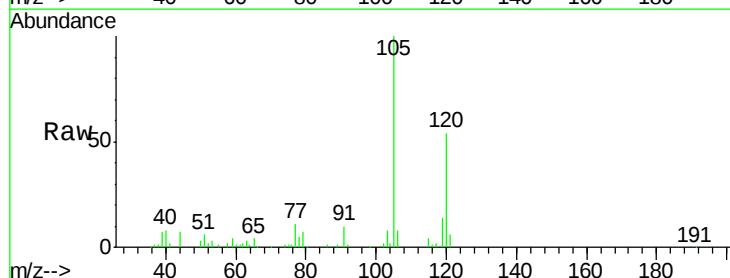
Acq: 4 Mar 2019 21:48

Tgt Ion: 105 Resp: 36850

Ion Ratio Lower Upper

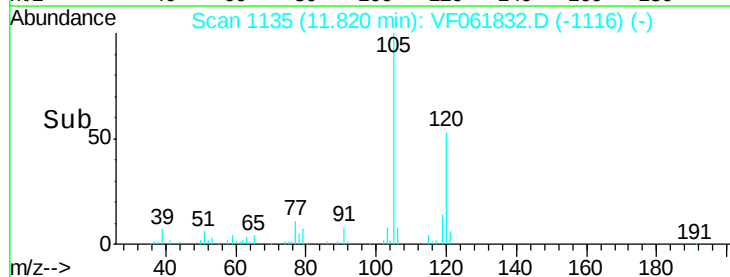
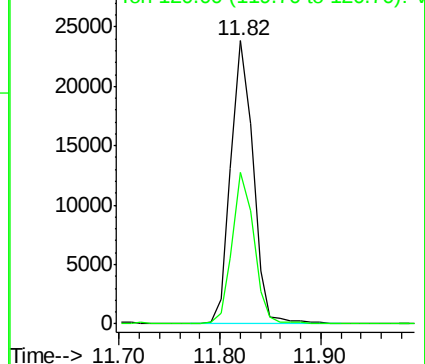
105 100

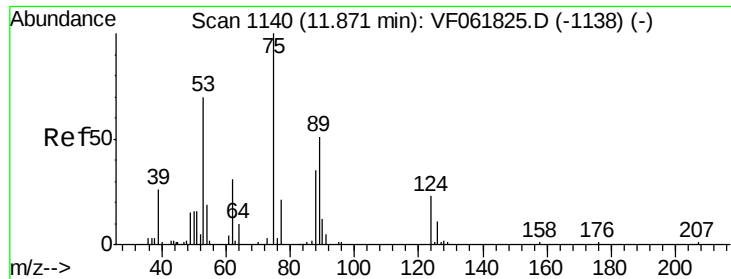
120 53.6 27.4 82.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 3.151 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

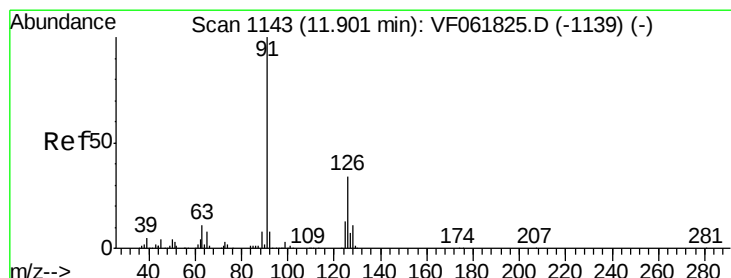
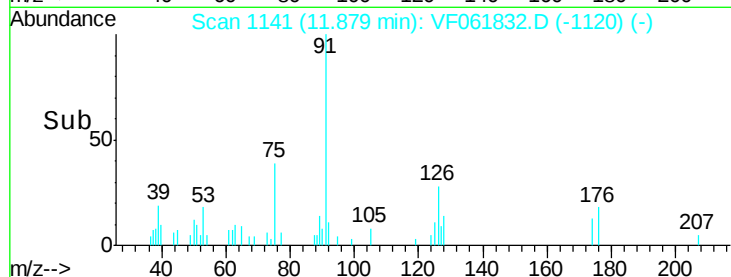
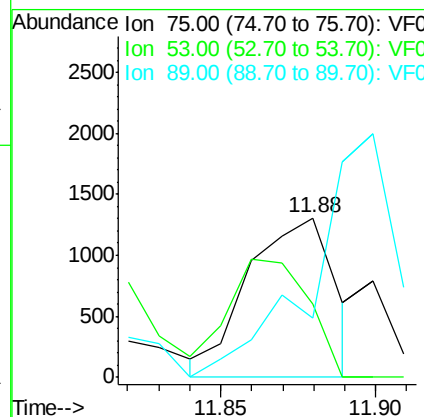
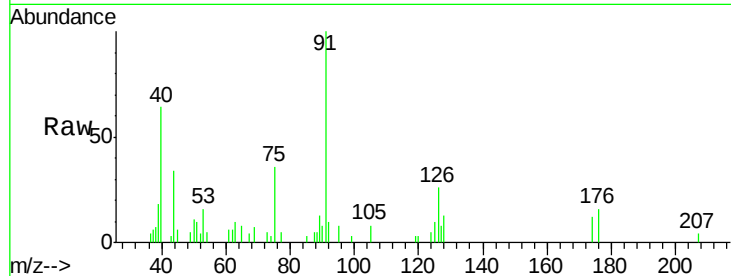
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:	75	Resp:	2543
Ion Ratio	Lower	Upper	
75	100		
53	45.8	58.6	88.0#
89	36.8	41.4	62.0#

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#82

4-Chlorotoluene

Concen: 3.004 ug/l

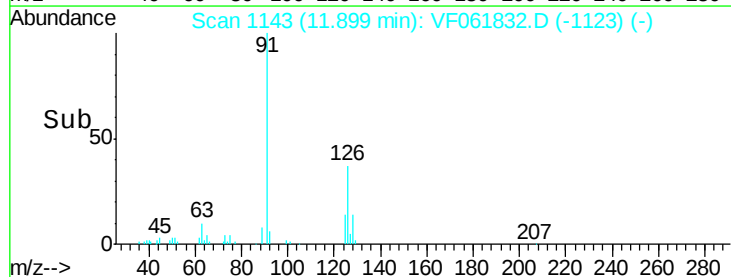
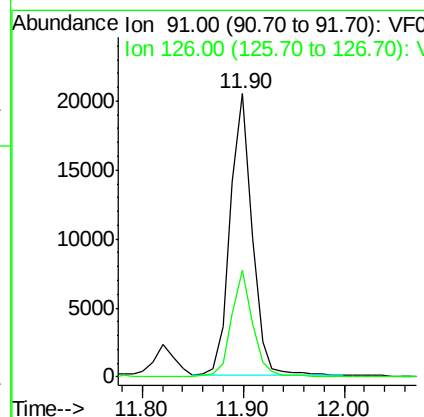
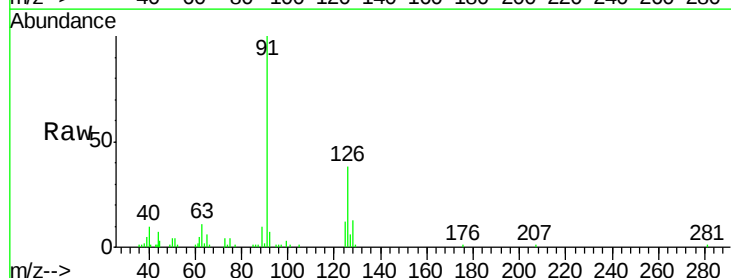
RT: 11.90 min Scan# 1143

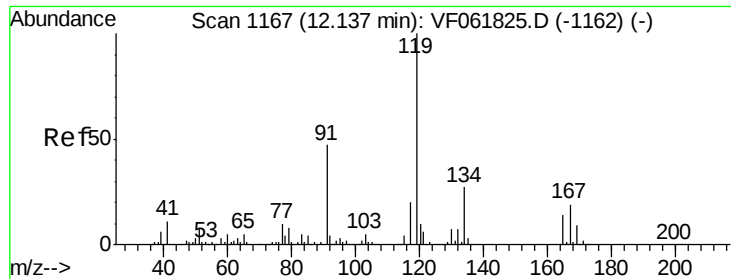
Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	91	Resp:	30869
Ion Ratio	Lower	Upper	
91	100		
126	37.8	17.0	50.9





#83

tert-Butylbenzene

Concen: 3.074 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

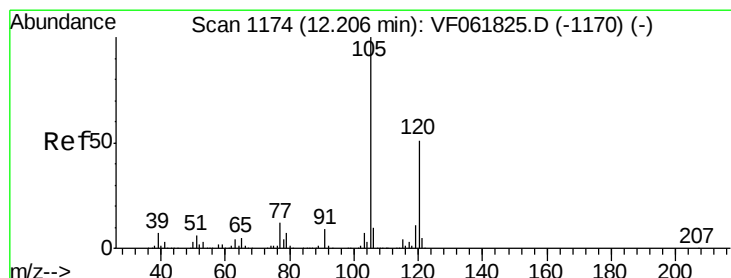
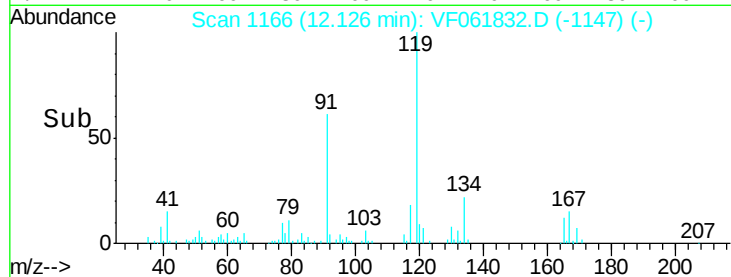
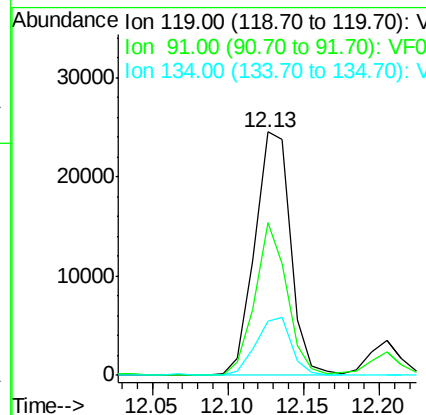
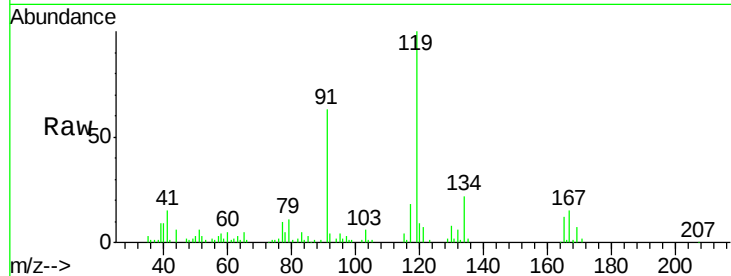
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:	119	Resp:	40775
Ion Ratio	Lower	Upper	
119	100		
91	62.7	23.5	70.5
134	22.1	13.3	39.8

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 3.206 ug/l

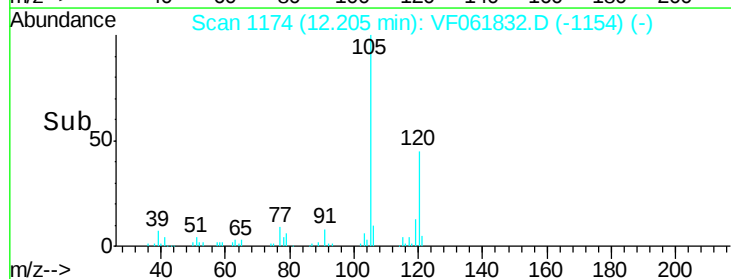
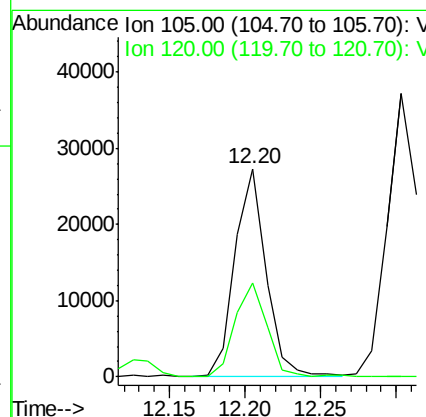
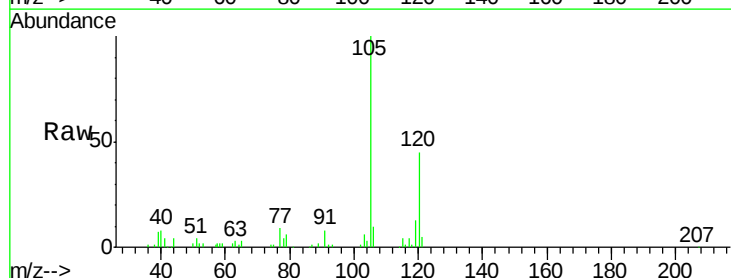
RT: 12.20 min Scan# 1174

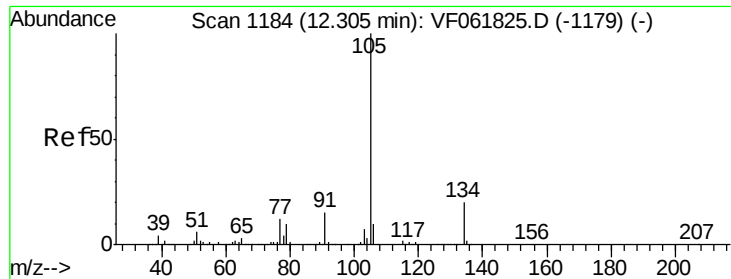
Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	105	Resp:	39263
Ion Ratio	Lower	Upper	
105	100		
120	45.1	25.8	77.4





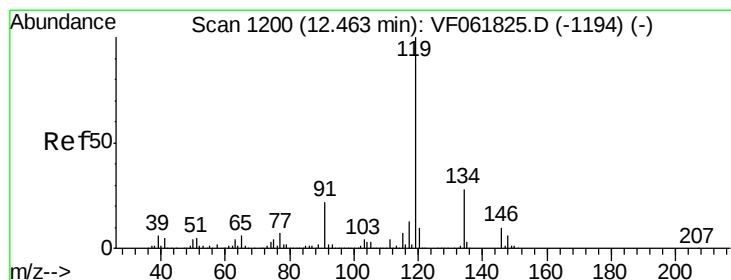
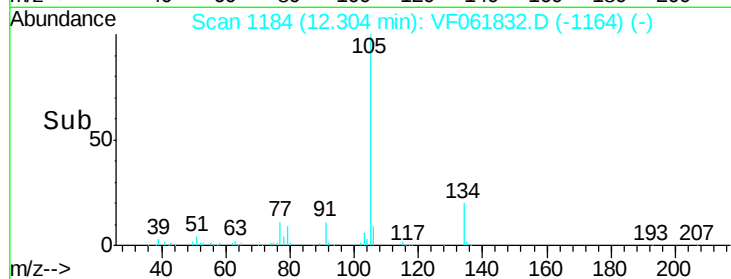
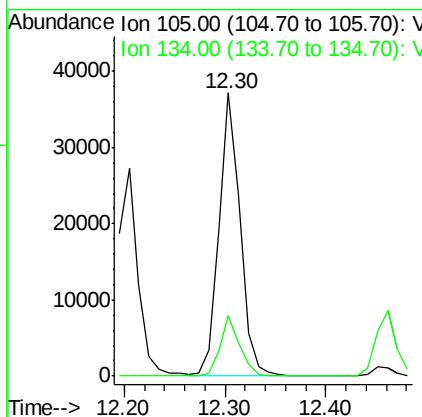
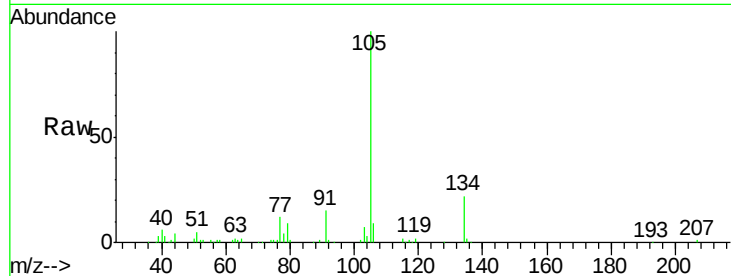
#85
 sec-Butylbenzene
 Concen: 3.168 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.5	9.8	29.5

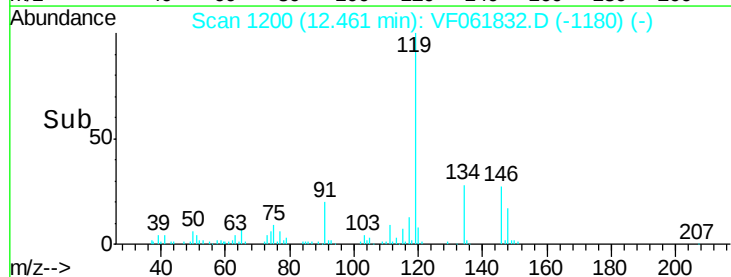
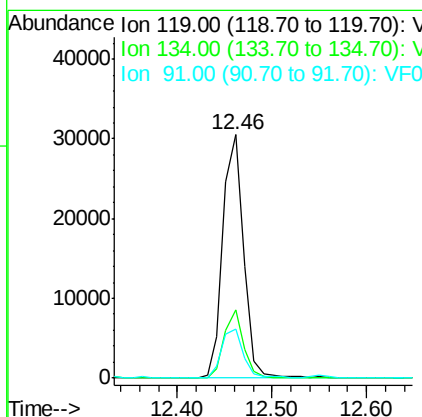
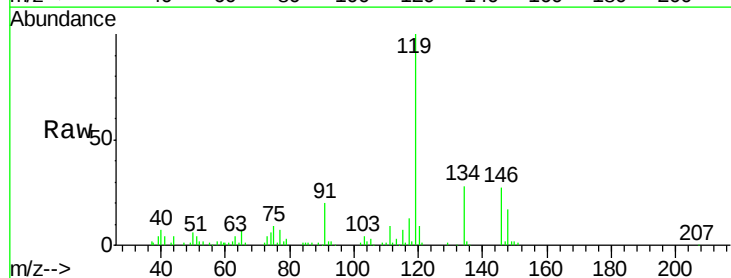
Manual Integrations
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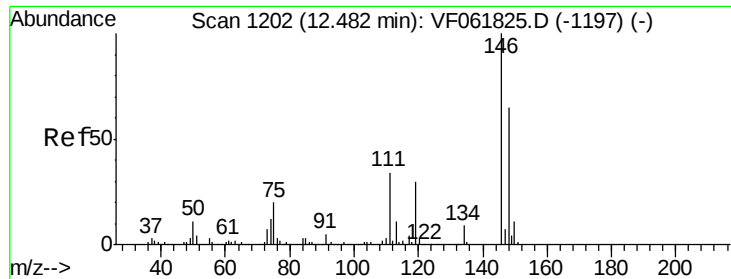
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#86
 p-Isopropyltoluene
 Concen: 3.166 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.0	14.0	42.0
91	20.1	11.1	33.3





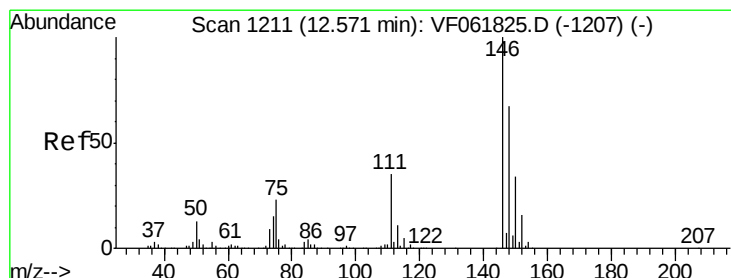
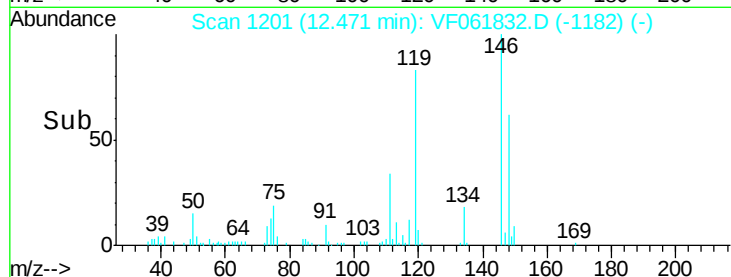
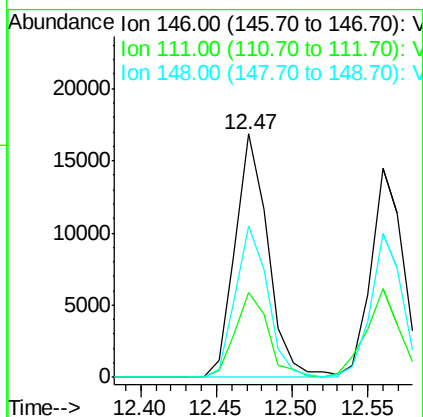
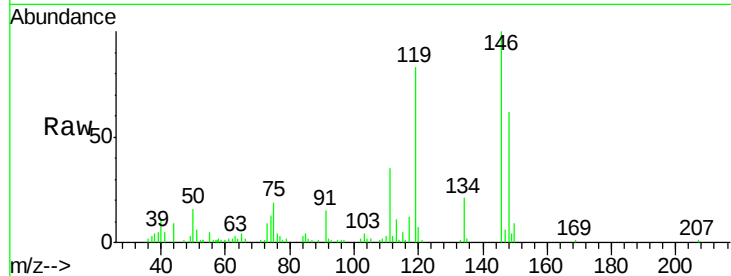
#87
 1,3-Dichlorobenzene
 Concen: 3.604 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.1	17.0	51.0
148	62.1	32.5	97.5

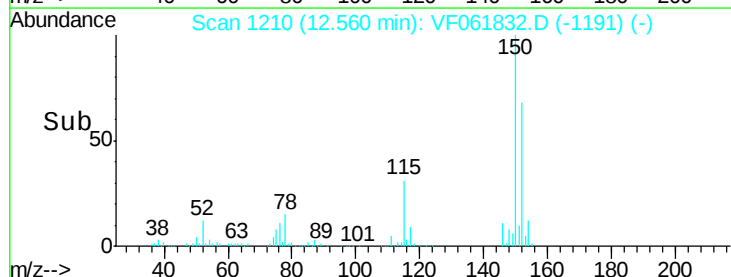
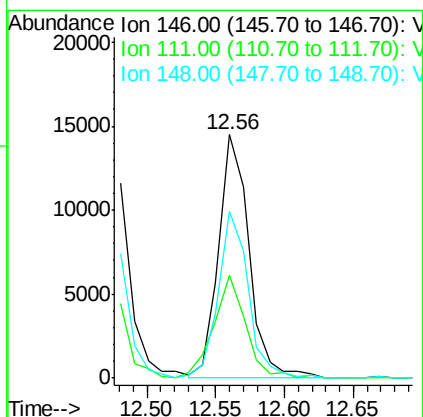
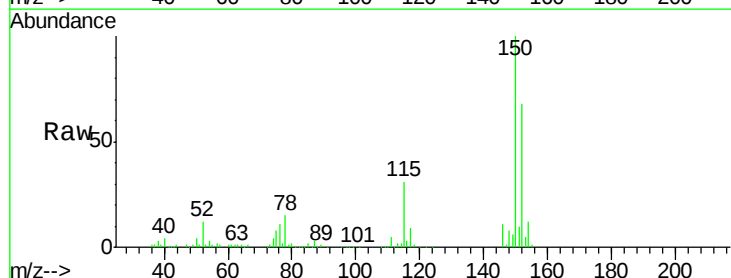
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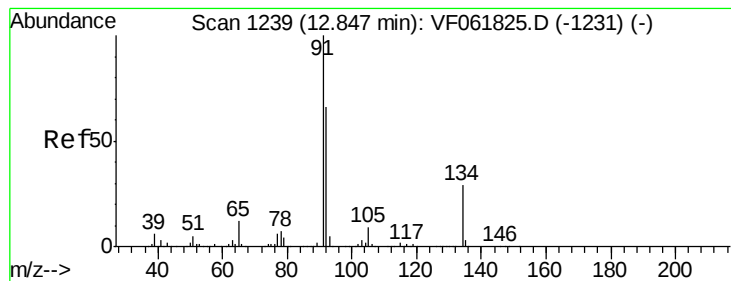
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#88
 1,4-Dichlorobenzene
 Concen: 3.240 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	17.6	52.9
148	68.5	33.5	100.4





#89

n-Butylbenzene

Concen: 3.017 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

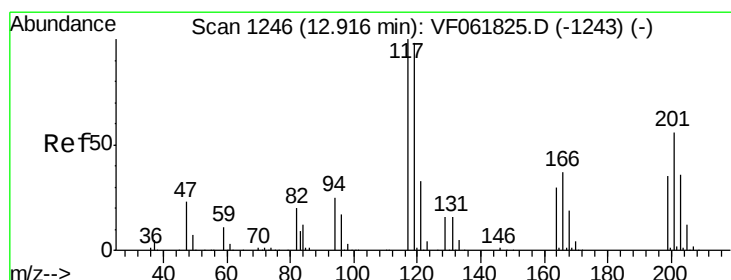
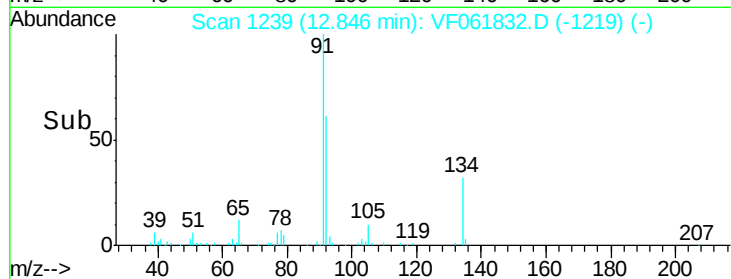
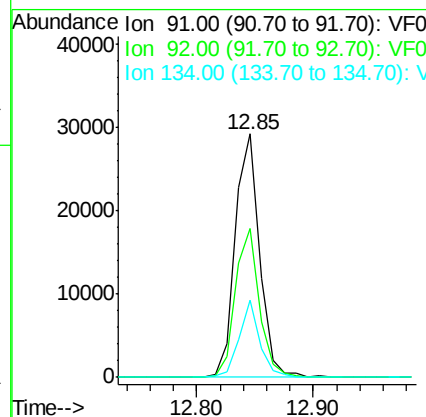
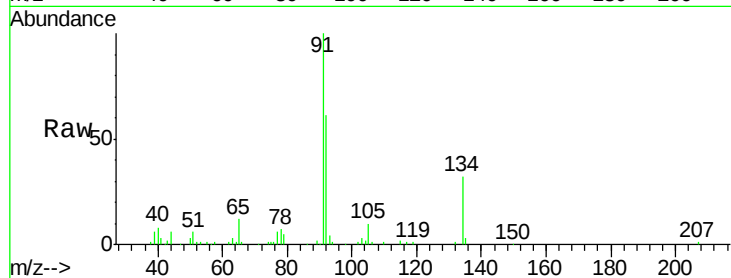
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion:	91	Resp:	42306
Ion	Ratio	Lower	Upper
91	100		
92	61.3	32.9	98.6
134	31.5	14.5	43.6

Manual Integrations
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#90

Hexachloroethane

Concen: 2.781 ug/l

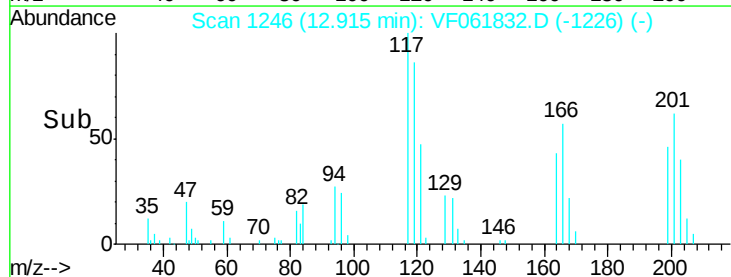
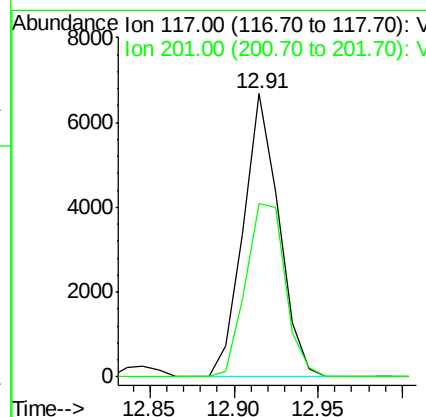
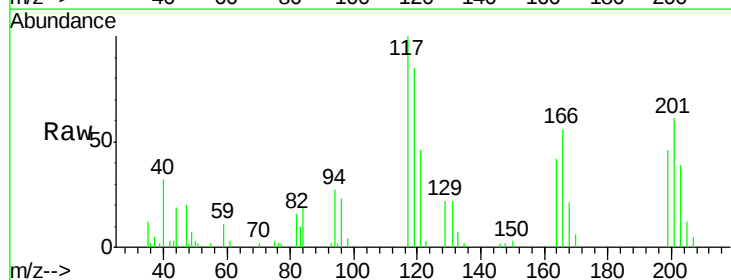
RT: 12.91 min Scan# 1246

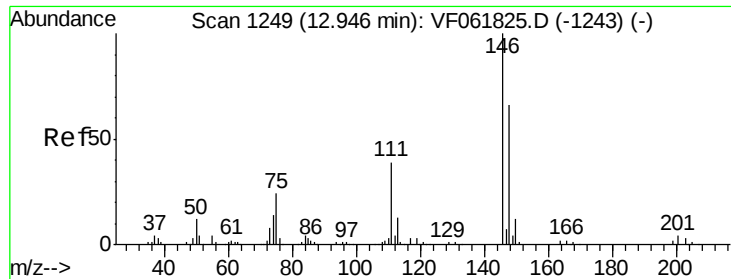
Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	117	Resp:	9822
Ion	Ratio	Lower	Upper
117	100		
201	61.3	27.8	83.4





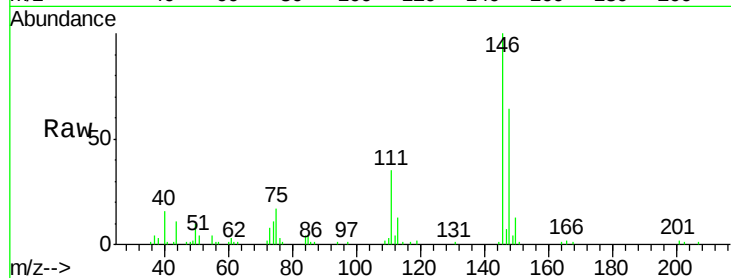
#91
 1,2-Dichlorobenzene
 Concen: 3.330 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

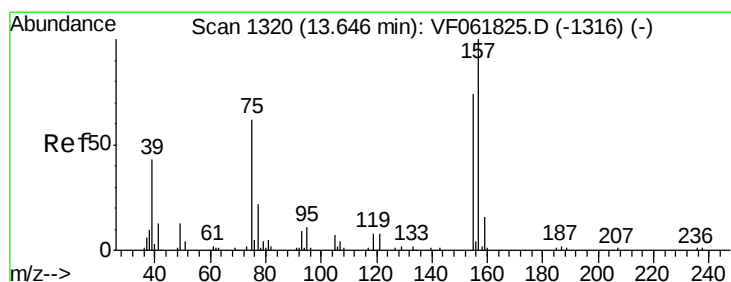
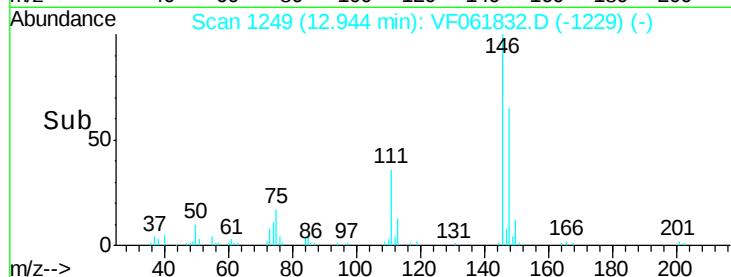
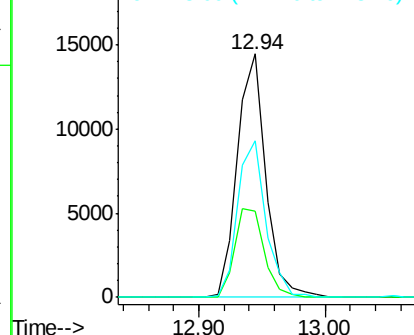
Tot Ion	Ratio	Lower	Upper
146	100		
111	35.3	19.4	58.4
148	64.1	33.0	98.9

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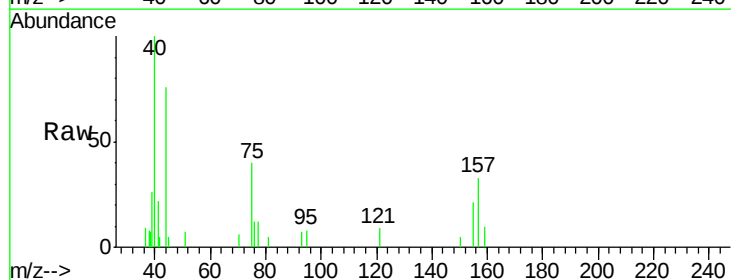


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

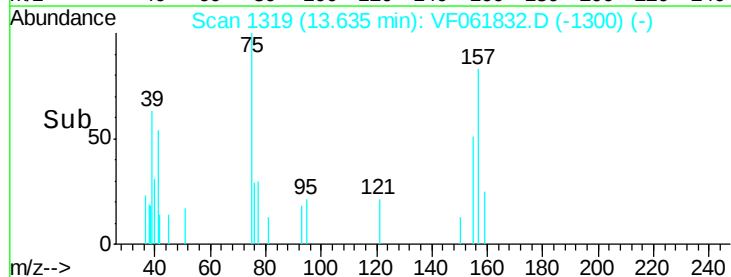
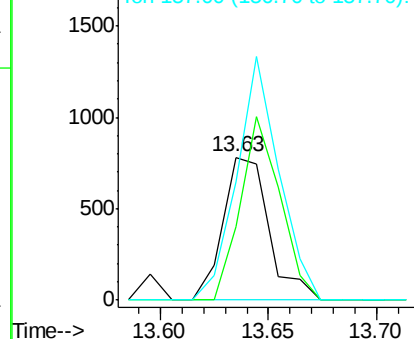


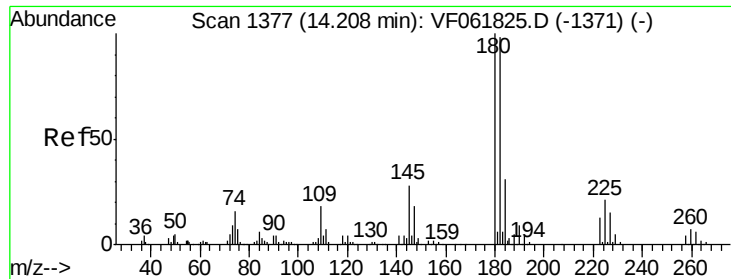
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 6.160 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	51.2	59.8	179.4#
157	82.6	81.2	243.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V





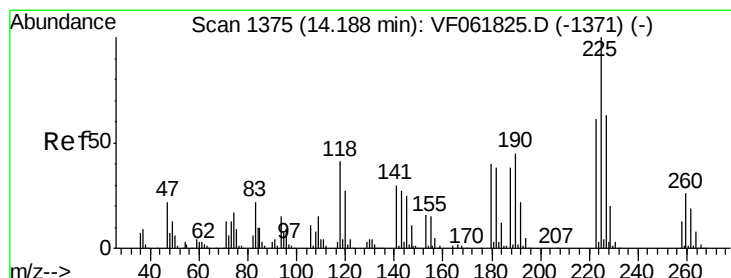
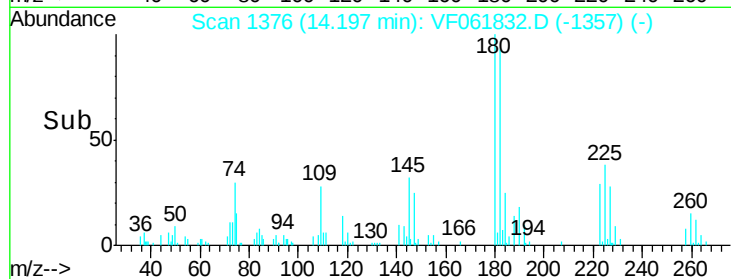
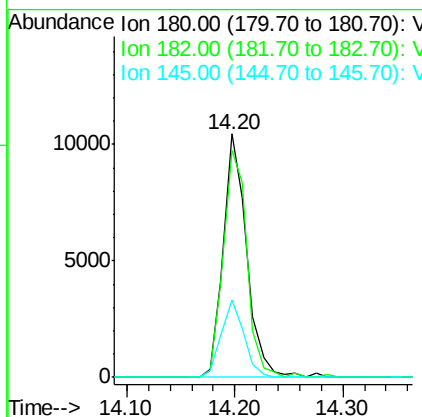
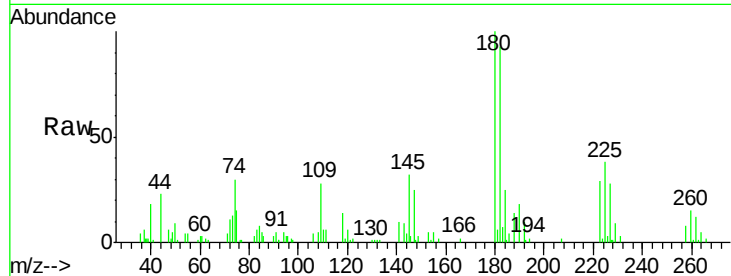
#93
 1,2,4-Trichlorobenzene
 Concen: 3.349 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	15820		
182	93.2	49.0	147.2	
145	31.6	14.1	42.4	

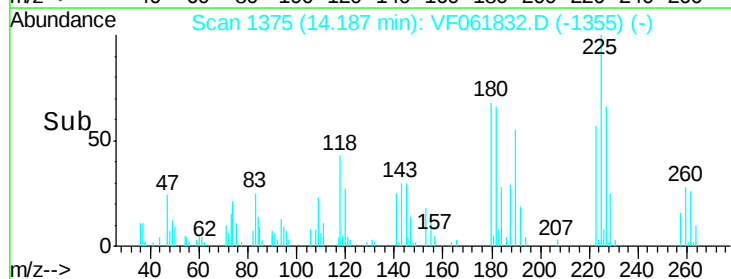
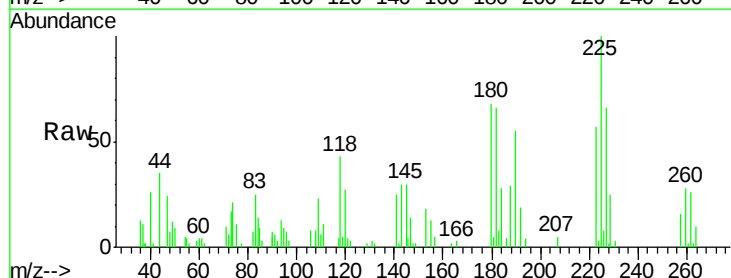
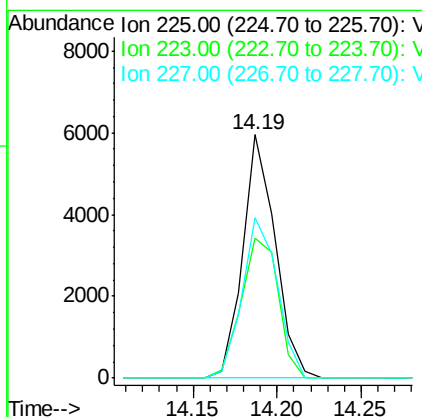
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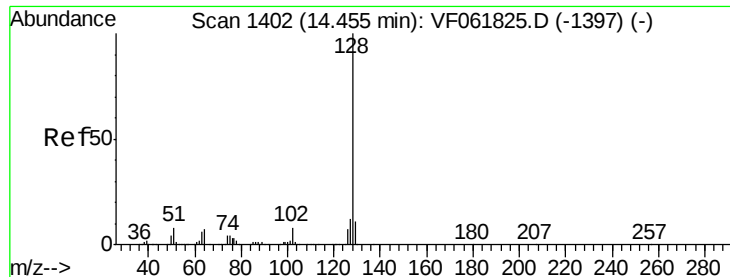
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#94
 Hexachlorobutadiene
 Concen: 2.436 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061832.D
 Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	7965		
223	57.4	30.3	90.9	
227	65.8	31.3	93.8	





#95

Naphthalene

Concen: 3.422 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Instrument :

MSVOA_F

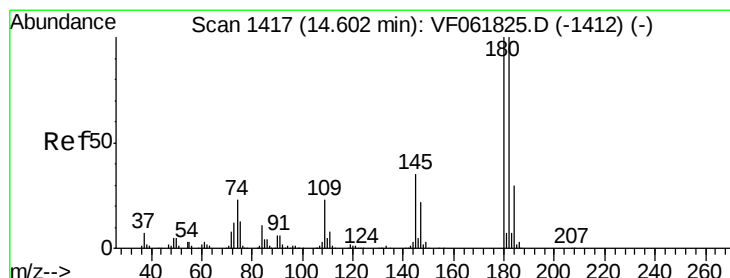
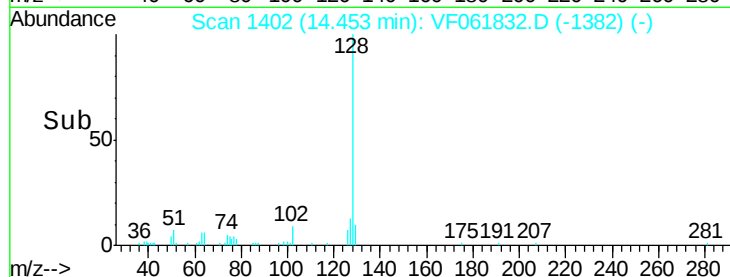
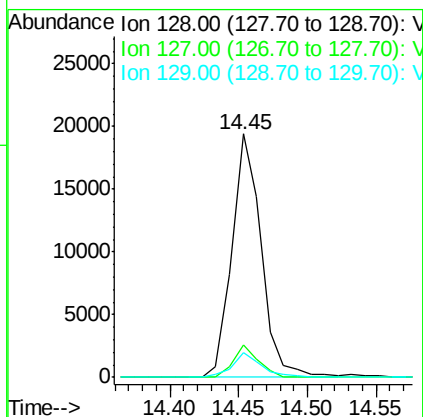
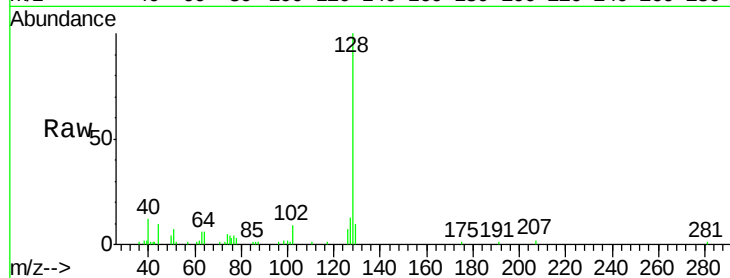
ClientSampleId :

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Tot Ion:	128	Resp:	28787
Ion Ratio	Lower	Upper	
128	100		
127	13.2	9.3	13.9
129	10.3	8.8	13.2

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#96

1,2,3-Trichlorobenzene

Concen: 3.315 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF061832.D

Acq: 4 Mar 2019 21:48

Tgt Ion:	180	Resp:	14459
Ion Ratio	Lower	Upper	
180	100		
182	97.0	50.2	150.7
145	33.0	17.5	52.5

