

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081619\
 Data File : VW011948.D
 Acq On : 16 Aug 2019 00:46
 Operator : SY/VA
 Sample : K4372-01
 Misc : 4.25G/5ML/MSVOA W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SOIL-COMPOSITE

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:27:22 AM

Quant Time: Aug 16 05:46:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	165849	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	268749	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	174682	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	46569	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	108300	56.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.74%	
35) Dibromofluoromethane	7.88	113	84238	55.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.74%	
50) Toluene-d8	10.32	98	306090	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.62	95	81443	37.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.02%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	3707	3.791	ug/l	70
16) Acetone	4.13	43	89134	147.137	ug/l	96
17) Carbon Disulfide	4.39	76	10361	1.917	ug/l	95
20) Methylene Chloride	4.91	84	27639	13.229	ug/l	97
25) 2-Butanone	7.18	43	13030	16.438	ug/l	96
29) Tetrahydrofuran	7.54	42	5449	12.026	ug/l	98
31) Cyclohexane	7.96	56	46429	13.039	ug/l #	89
39) Methylcyclohexane	9.34	83	5411	1.758	ug/l #	83
40) Benzene	8.32	78	16236	2.074	ug/l	94
52) Toluene	10.39	92	77609	16.418	ug/l	99
65) Chlorobenzene	11.66	112	207086	58.966	ug/l	99
67) Ethyl Benzene	11.73	91	174026	26.018	ug/l	99
68) m/p-Xylenes	11.83	106	15438	6.347	ug/l	93
69) o-Xylene	12.16	106	13667	6.046	ug/l	95
73) Isopropylbenzene	12.46	105	495166	142.528	ug/l	100
78) n-propylbenzene	12.80	91	60594	14.331	ug/l #	54
84) 1,2,4-Trimethylbenzene	13.25	105	115173	39.259	ug/l	99
85) sec-Butylbenzene	13.38	105	21999m	6.331	ug/l	
86) p-Isopropyltoluene	13.50	119	127196	40.344	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	30848	20.488	ug/l	86
88) 1,4-Dichlorobenzene	13.58	146	59918m	40.004	ug/l	
89) n-Butylbenzene	13.82	91	24669m	7.841	ug/l	
95) Naphthalene	15.36	128	68664	37.871	ug/l	97

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

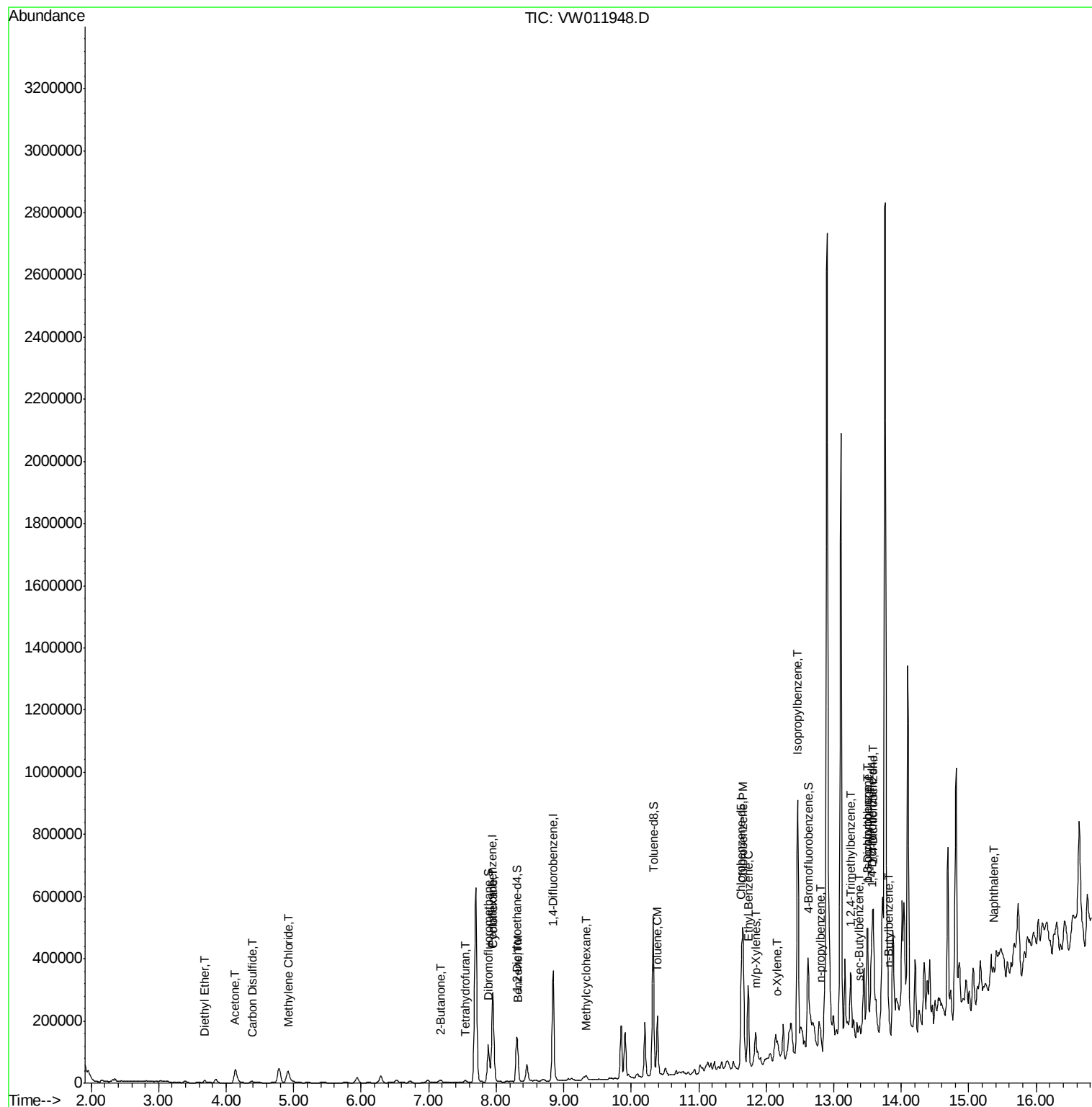
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081619\
Data File : VW011948.D
Acq On : 16 Aug 2019 00:46
Operator : SY/VA
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Misc : 4.25G/5ML/MSVOA W/SOIL
ALS Vial : 25 Sample Multiplier: 1

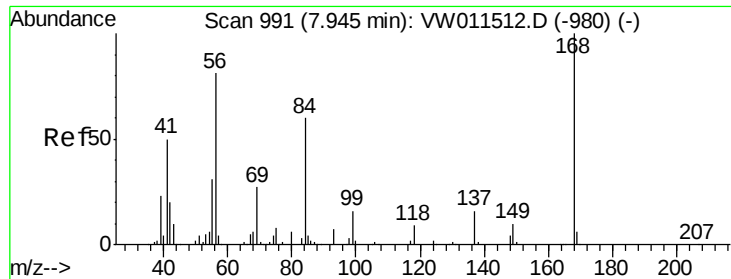
Instrument :
MSVOA_W
ClientSampleId :
SOIL-COMPOSITE

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8/16/2019 8:27:22 AM

Quant Time: Aug 16 05:46:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

Instrument :

MSVOA_W

ClientSampleId :

SOIL-COMPOSITE

Tot Ion:168 Resp: 165849

Ion Ratio Lower Upper

168 100

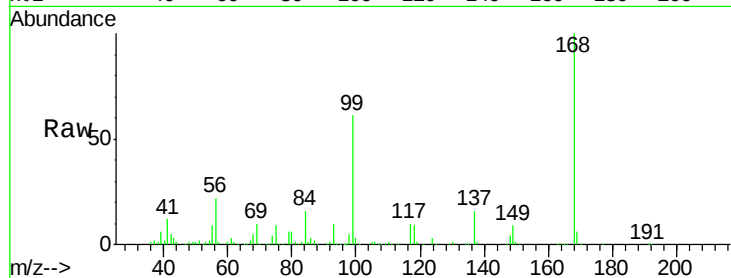
99 61.2 48.2 72.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

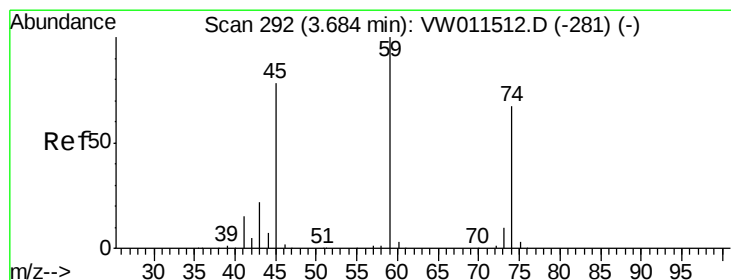
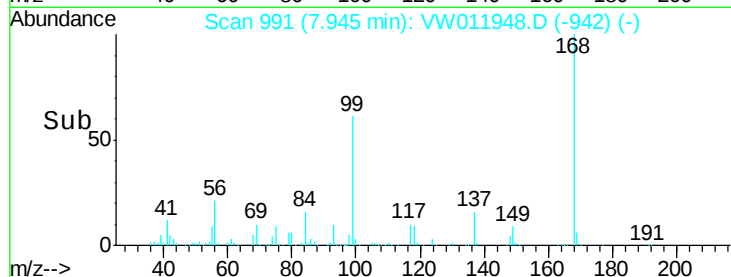
40000

20000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 3.791 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW011948.D

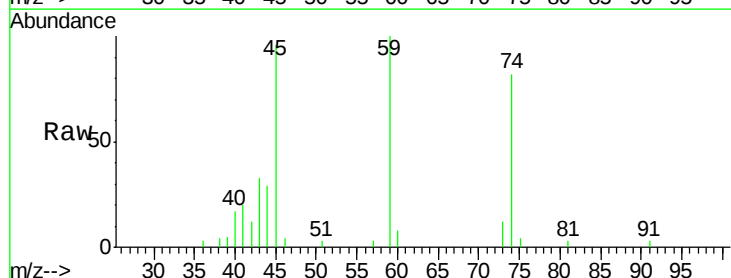
Acq: 16 Aug 2019 00:46

Tgt Ion: 74 Resp: 3707

Ion Ratio Lower Upper

74 100

45 152.2 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

2500

2000

1500

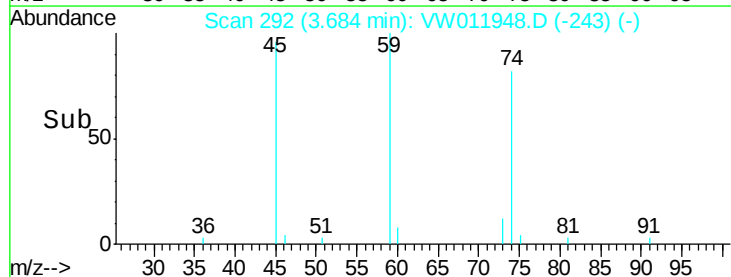
1000

500

0

3.60 3.65 3.70 3.75

Time-->





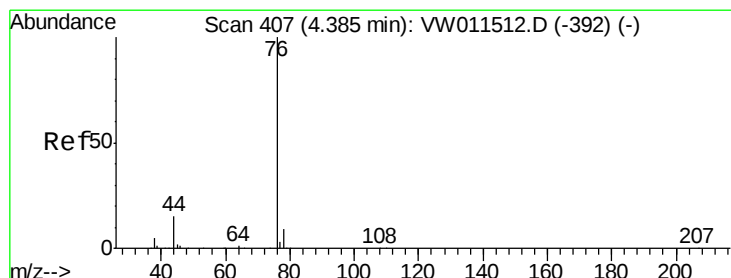
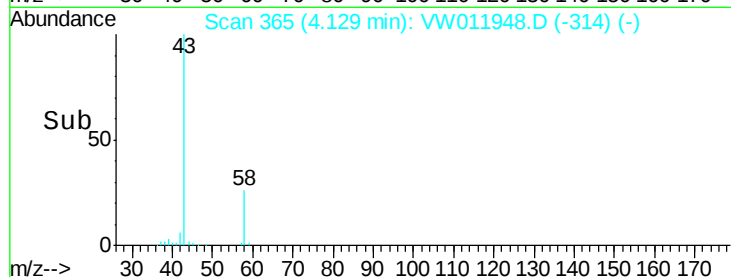
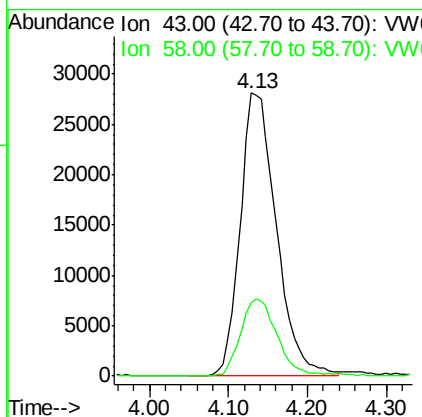
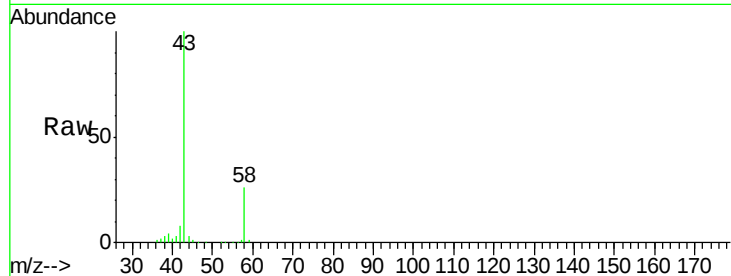
#16
Acetone
Concen: 147.137 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-COMPOSITE

Tot Ion: 43 Resp: 89134
Ion Ratio Lower Upper
43 100
58 26.1 22.3 33.5

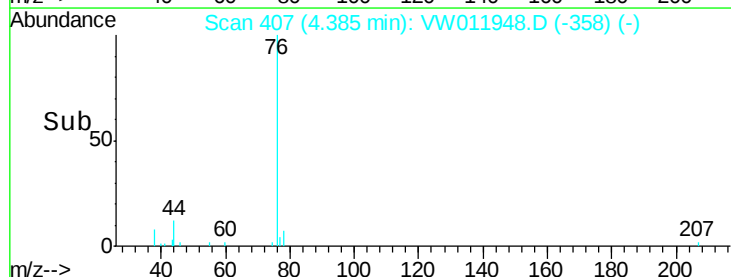
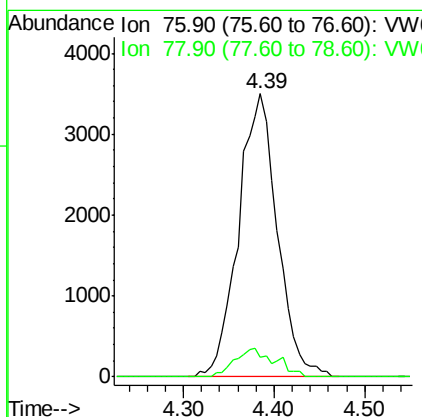
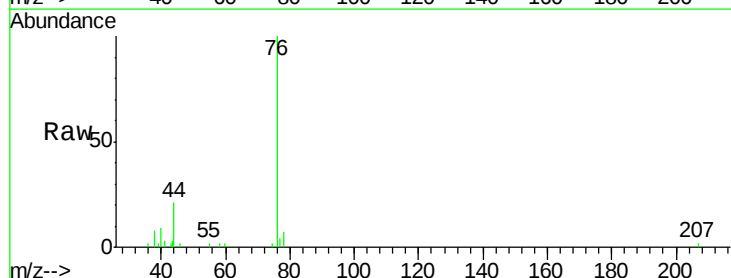
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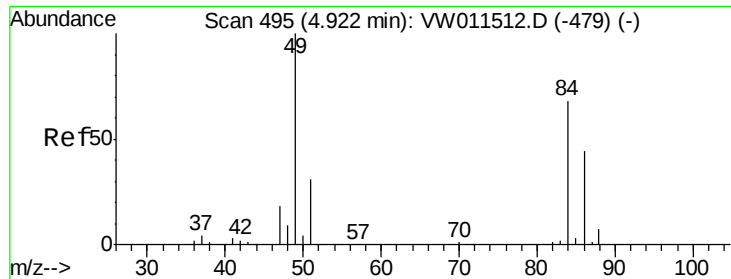
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#17
Carbon Disulfide
Concen: 1.917 ug/l
RT: 4.39 min Scan# 407
Delta R.T. -0.00 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Tgt Ion: 76 Resp: 10361
Ion Ratio Lower Upper
76 100
78 7.2 7.1 10.7





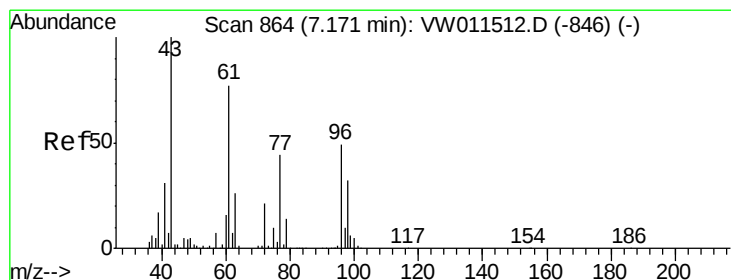
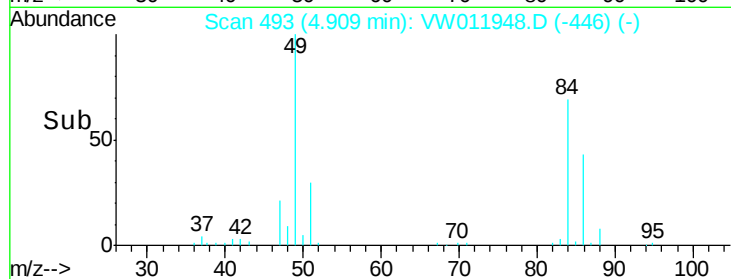
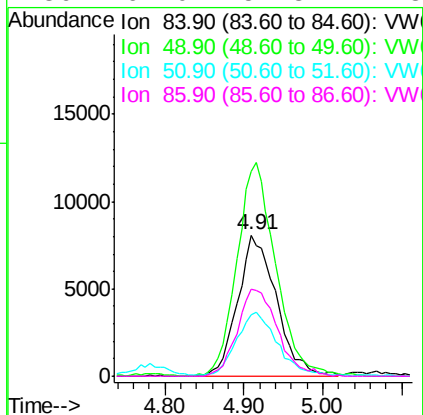
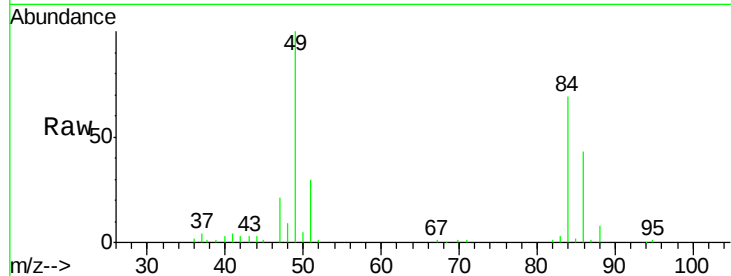
#20
Methvlene Chloride
Concen: 13.229 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-COMPOSITE

Tot Ion:	84	Resp:	27639
Ion	Ratio	Lower	Upper
84	100		
49	144.6	117.8	176.6
51	42.8	37.0	55.4
86	62.0	51.8	77.8

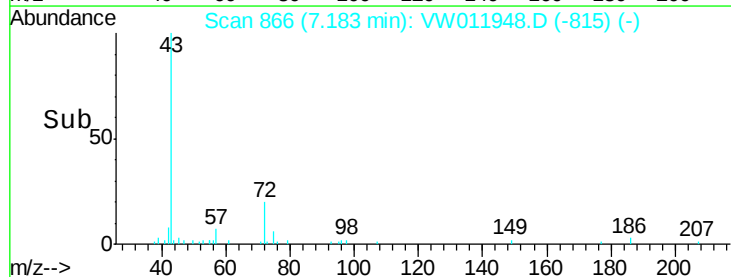
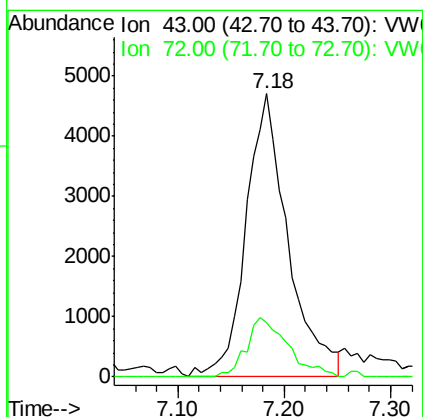
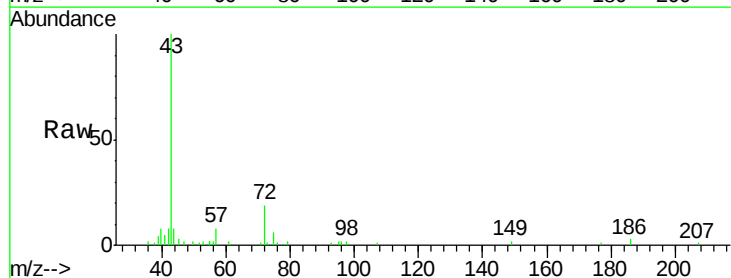
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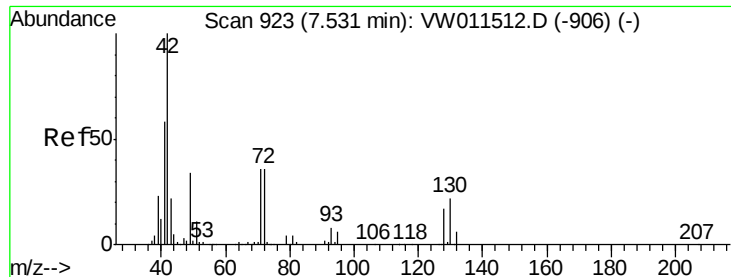
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#25
2-Butanone
Concen: 16.438 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Tgt Ion:	43	Resp:	13030
Ion	Ratio	Lower	Upper
43	100		
72	19.0	16.6	24.8





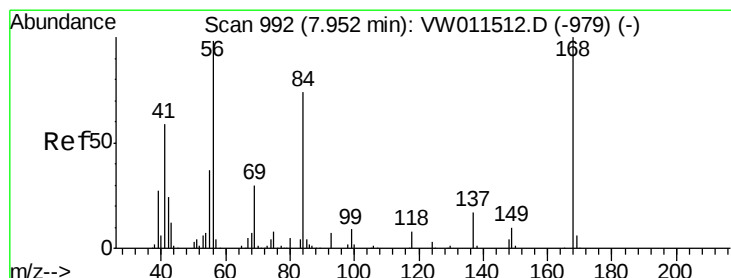
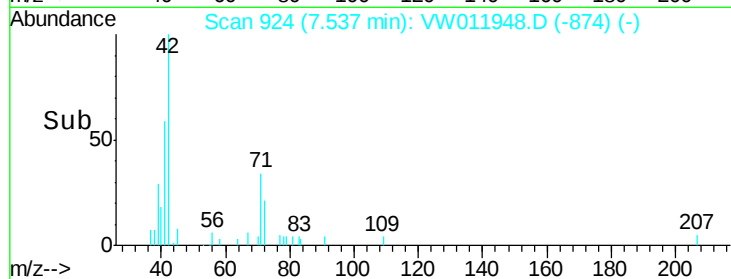
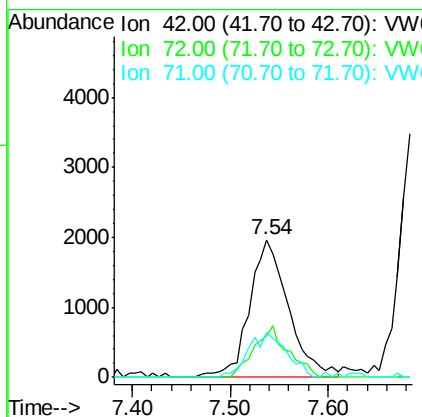
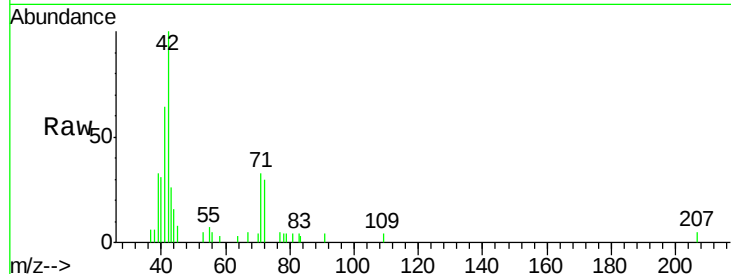
#29
Tetrahydrofuran
Concen: 12.026 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-COMPOSITE

Tot Ion:	42	Resp:	5449
Ion	Ratio	Lower	Upper
42	100		
72	32.3	27.1	40.7
71	31.6	26.2	39.4

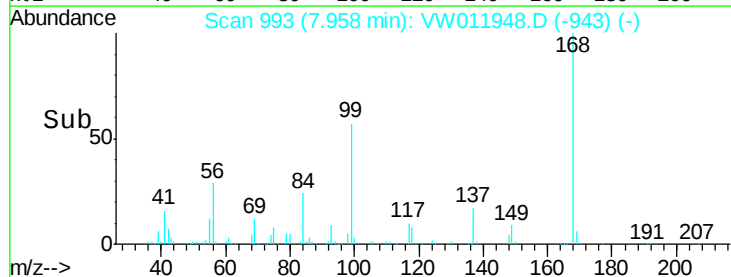
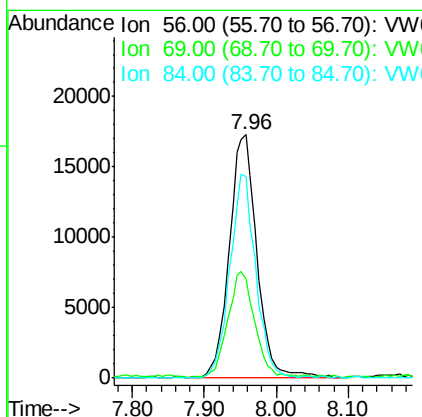
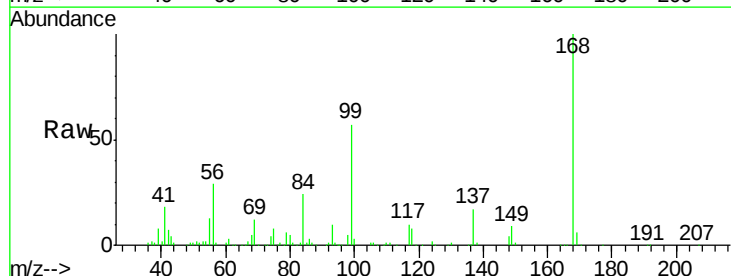
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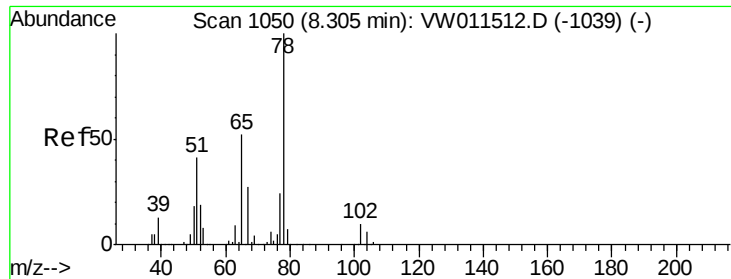
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#31
Cyclohexane
Concen: 13.039 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Tgt Ion:	56	Resp:	46429
Ion	Ratio	Lower	Upper
56	100		
69	40.5	24.3	36.5#
84	82.6	60.4	90.6





#33

1,2-Dichloroethane-d4

Concen: 56.868 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

Instrument :

MSVOA_W

ClientSampleId :

SOIL-COMPOSITE

Tot Ion: 65 Resp: 108300

Ion Ratio Lower Upper

65 100

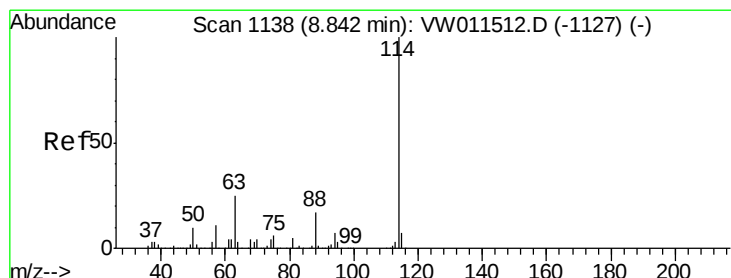
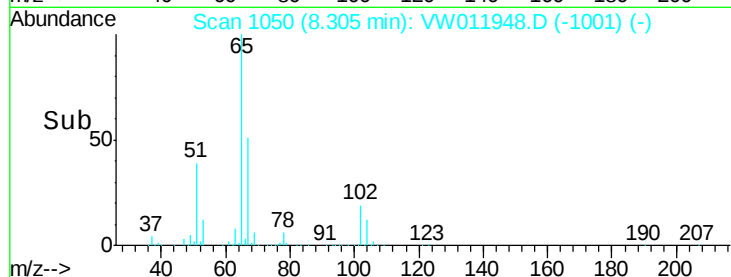
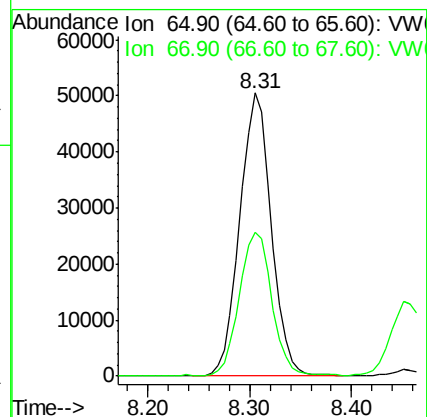
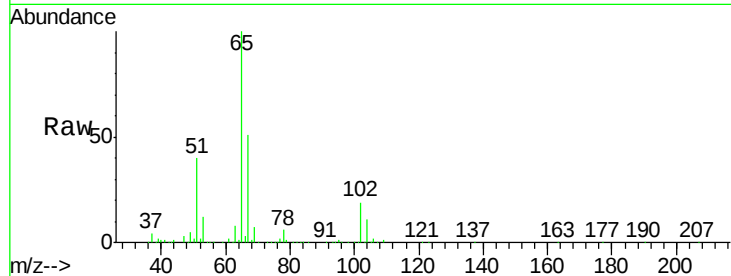
67 52.0 0.0 105.2

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

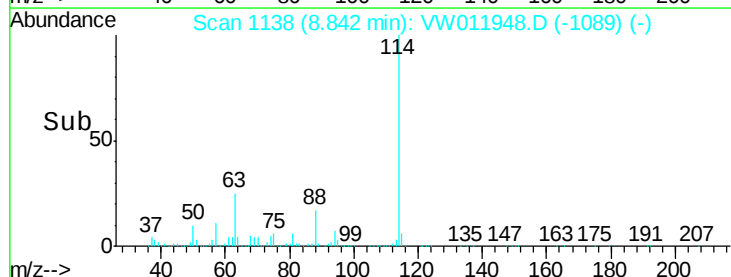
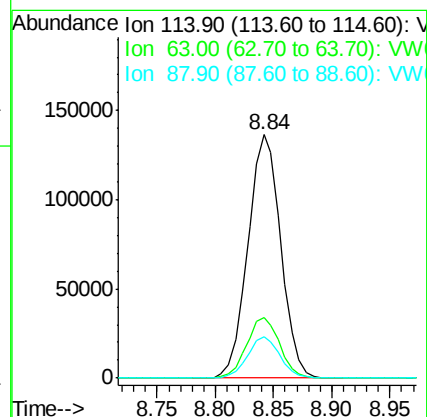
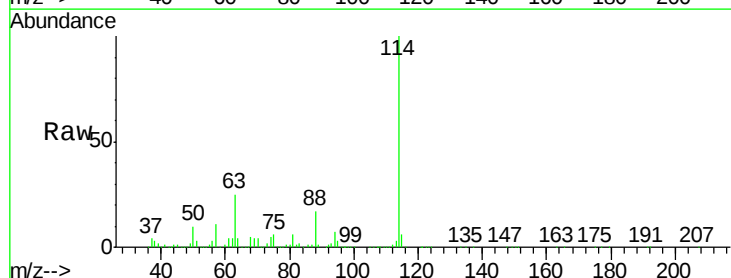
Tgt Ion: 114 Resp: 268749

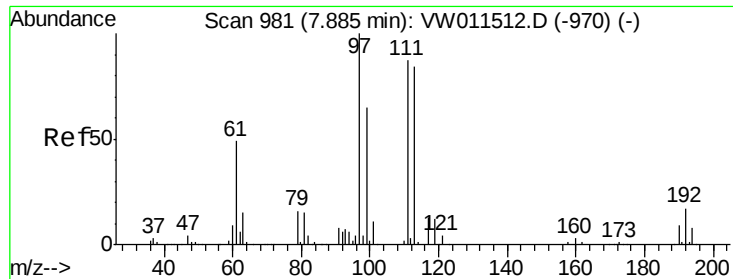
Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.2

88 17.1 0.0 33.8





#35

Dibromofluoromethane

Concen: 55.871 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

Instrument :

MSVOA_W

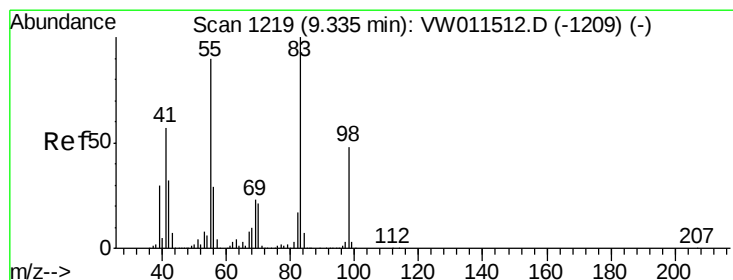
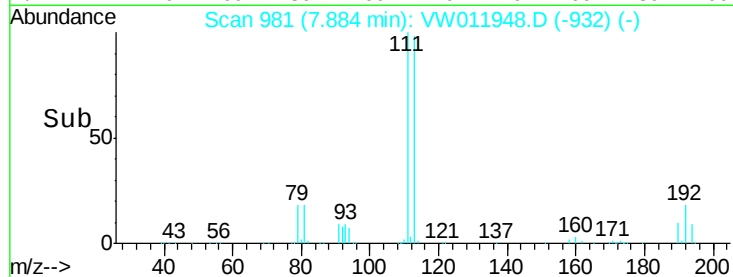
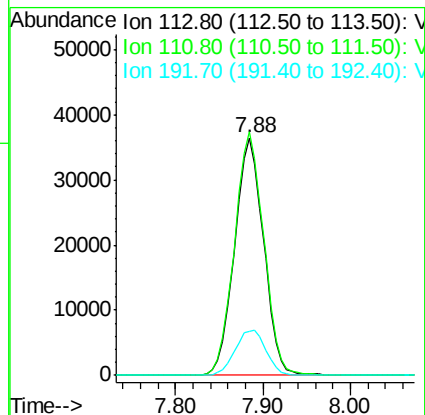
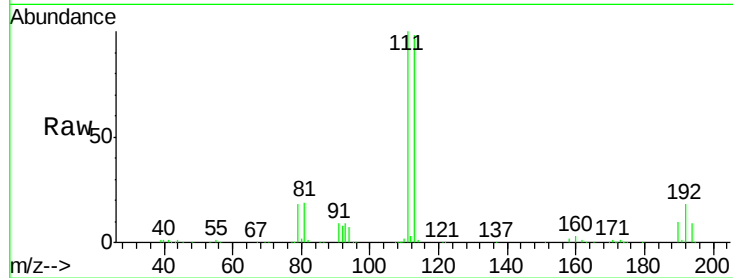
ClientSampleId :

SOIL-COMPOSITE

Tot Ion:	113	Resp:	84238
Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.7	124.1
192	20.4	16.1	24.1

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#39

Methylcyclohexane

Concen: 1.758 ug/l

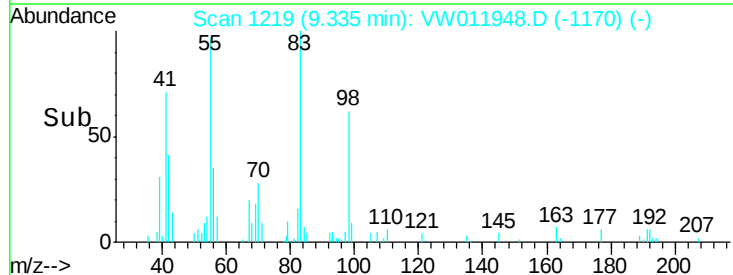
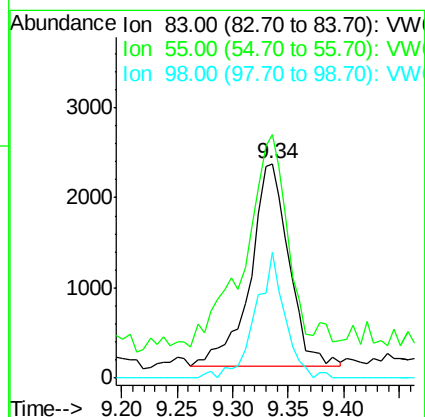
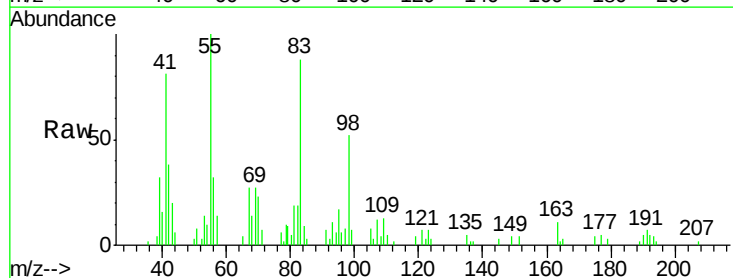
RT: 9.34 min Scan# 1219

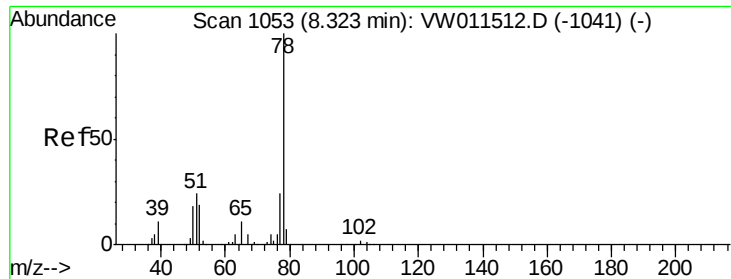
Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

Tgt Ion:	83	Resp:	5411
Ion	Ratio	Lower	Upper
83	100		
55	104.6	72.1	108.1
98	62.1	38.6	57.8#





#40

Benzene

Concen: 2.074 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

Instrument :

MSVOA_W

ClientSampleId :

SOIL-COMPOSITE

Tot Ion: 78 Resp: 16236

Ion Ratio Lower Upper

78 100

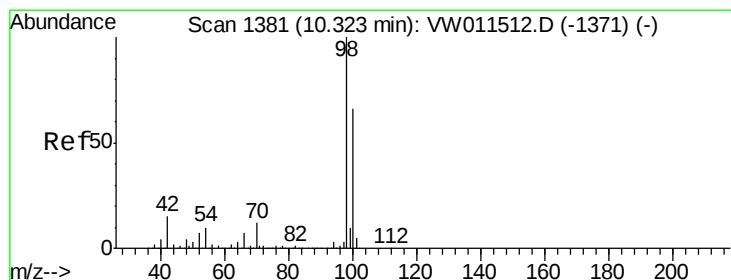
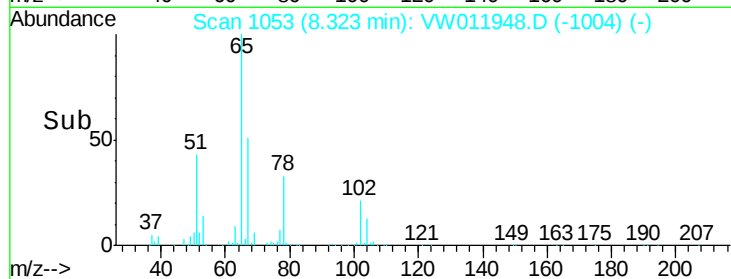
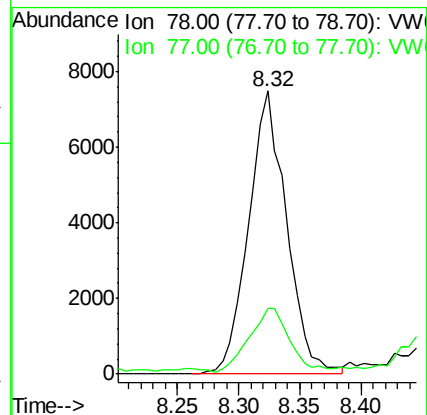
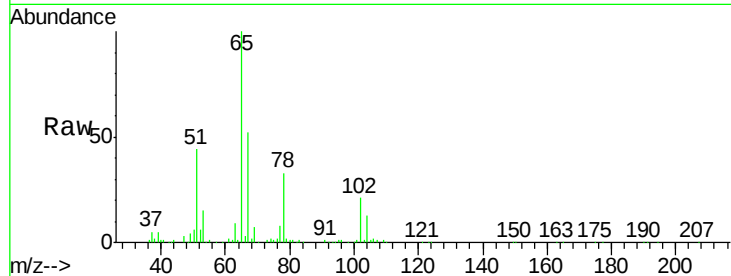
77 21.2 19.4 29.0

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#50

Toluene-d8

Concen: 49.585 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011948.D

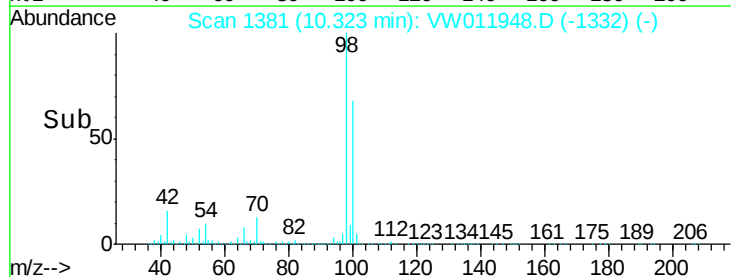
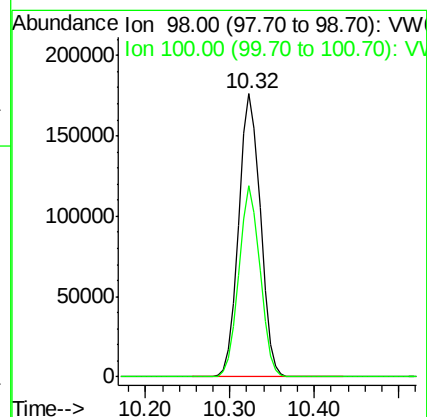
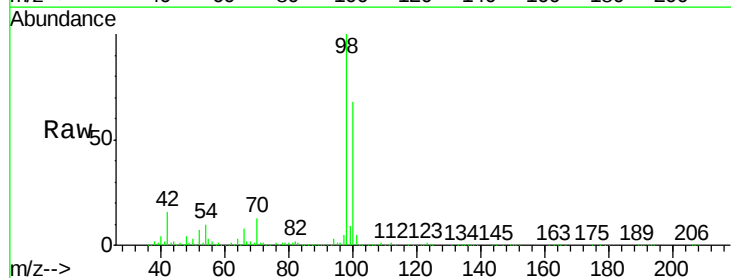
Acq: 16 Aug 2019 00:46

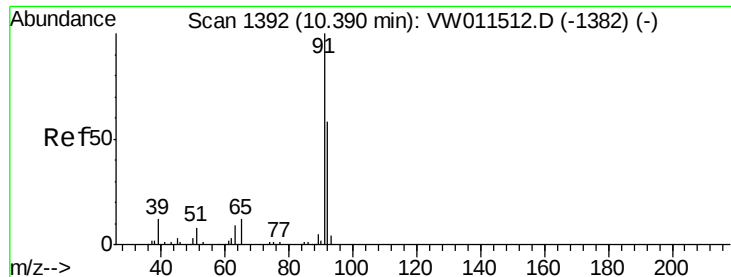
Tgt Ion: 98 Resp: 306090

Ion Ratio Lower Upper

98 100

100 65.6 52.7 79.1





#52

Toluene

Concen: 16.418 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

Instrument :

MSVOA_W

ClientSampleId :

SOIL-COMPOSITE

Tot Ion: 92 Resp: 77609

Ion Ratio Lower Upper

92 100

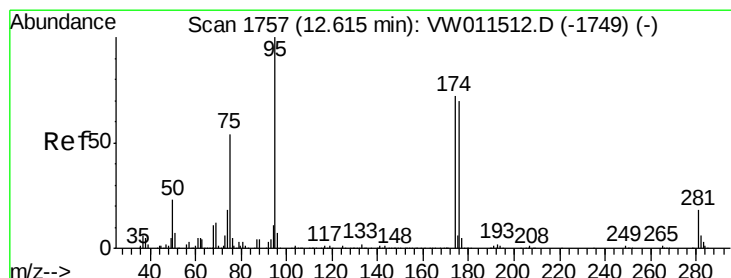
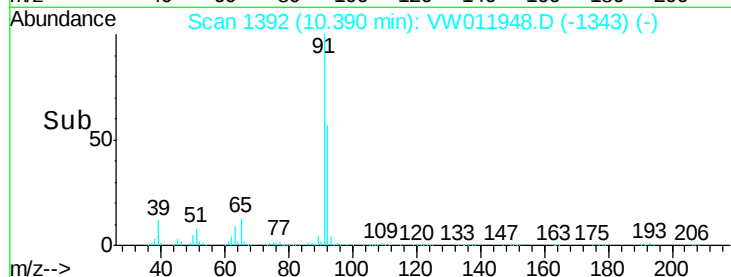
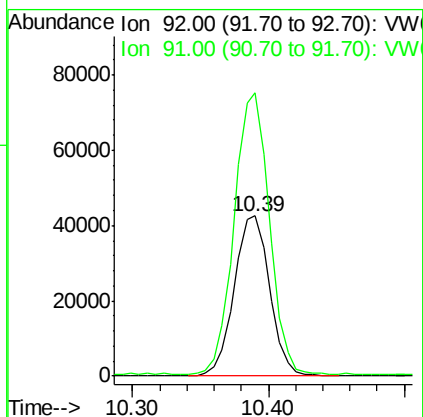
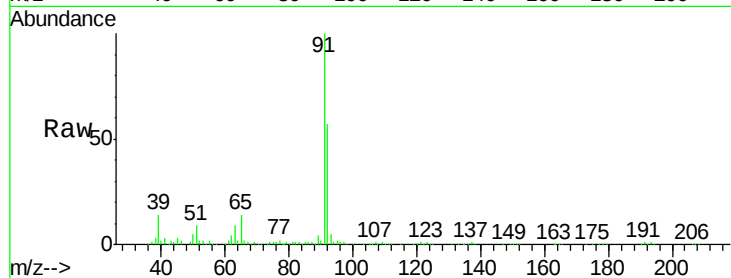
91 172.2 136.7 205.1

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 37.006 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

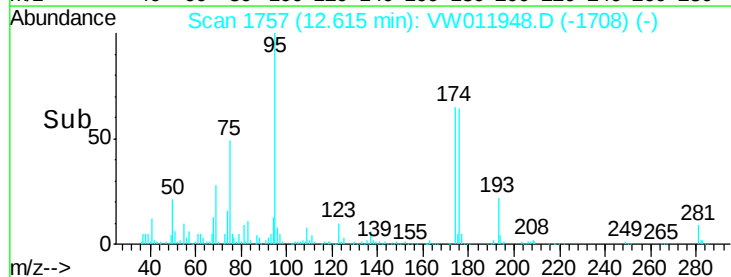
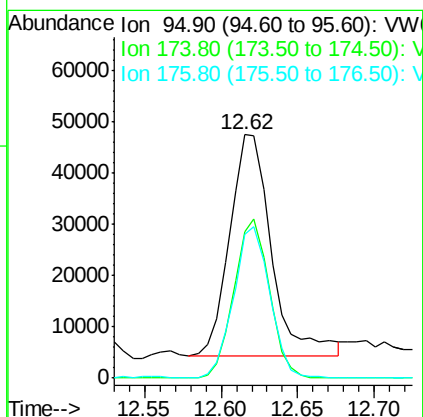
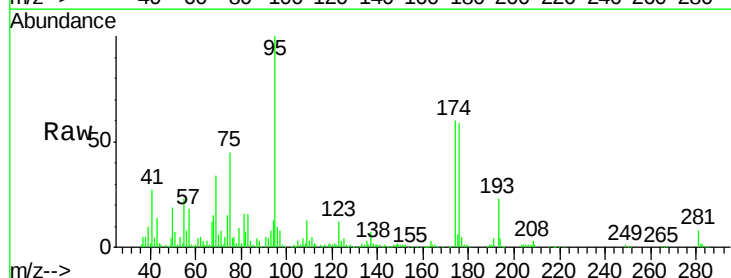
Tgt Ion: 95 Resp: 81443

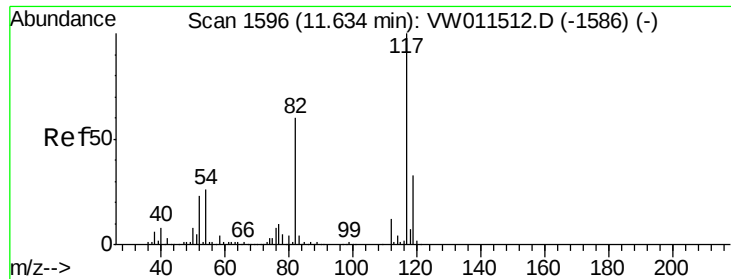
Ion Ratio Lower Upper

95 100

174 61.2 0.0 150.2

176 59.4 0.0 144.4





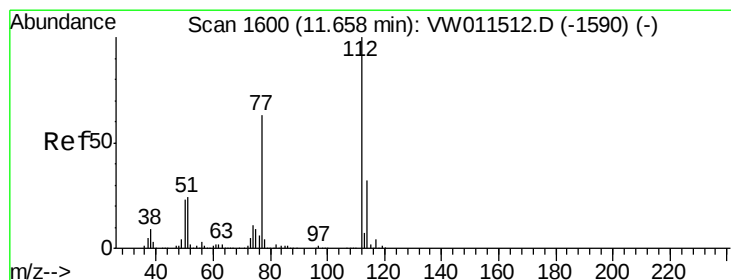
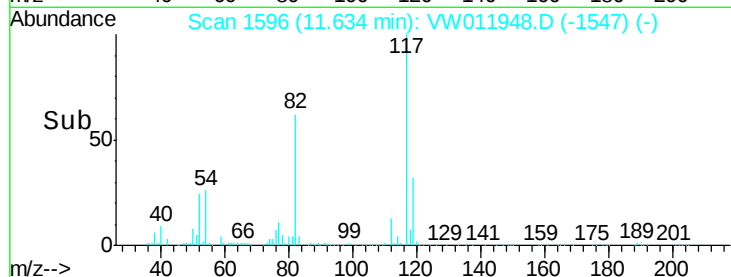
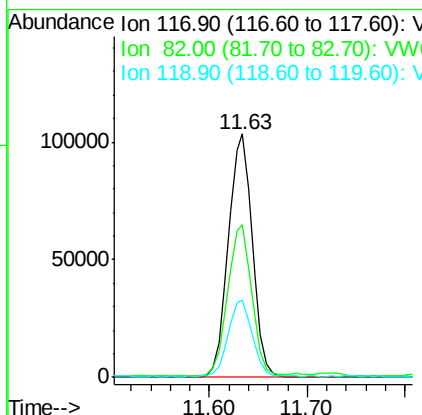
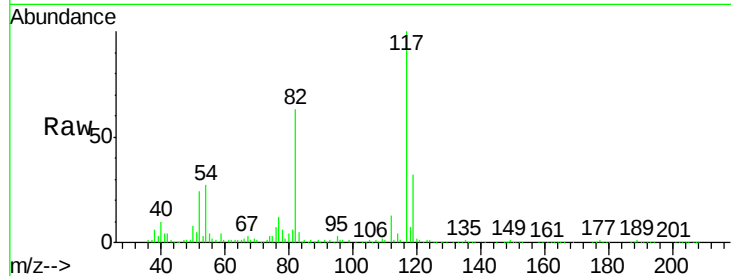
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-COMPOSITE

Tot Ion	Ratio	Resp	Lower	Upper
117	100	174682		
82	61.9	47.9	71.9	
119	31.5	26.2	39.2	

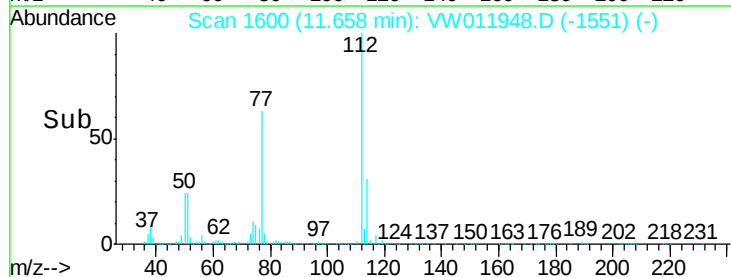
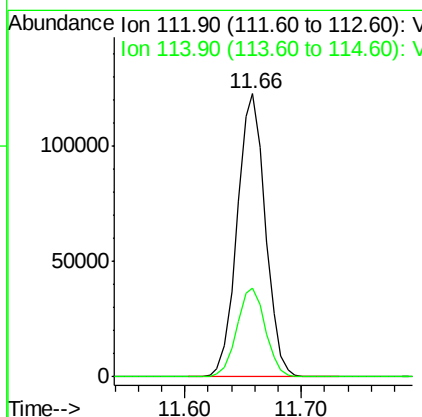
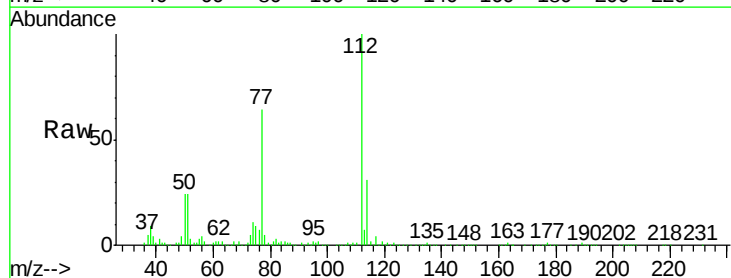
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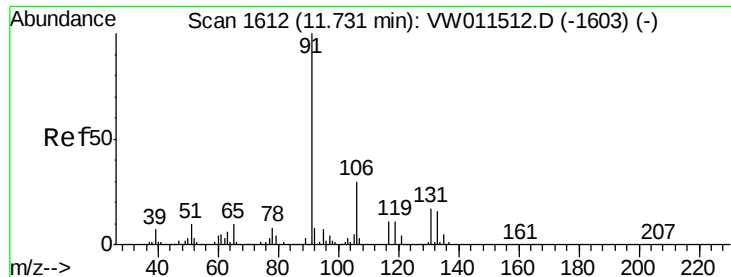
MMDadoda
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#65
Chlorobenzene
Concen: 58.966 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	207086		
114	31.2	25.6	38.4	





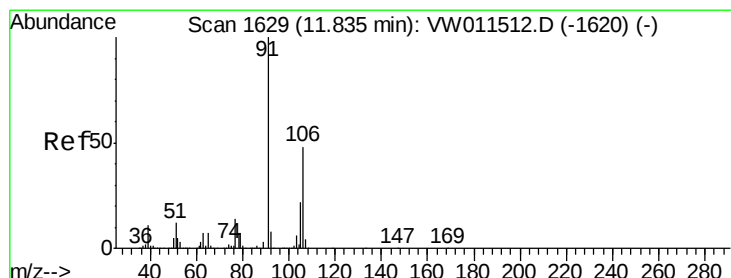
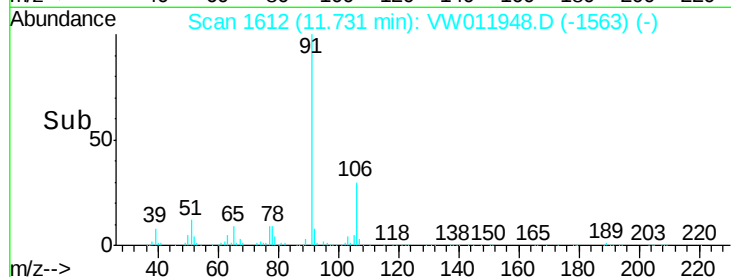
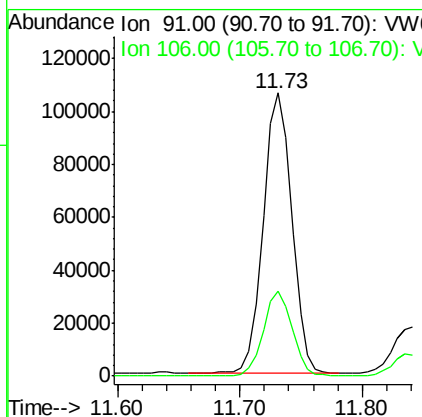
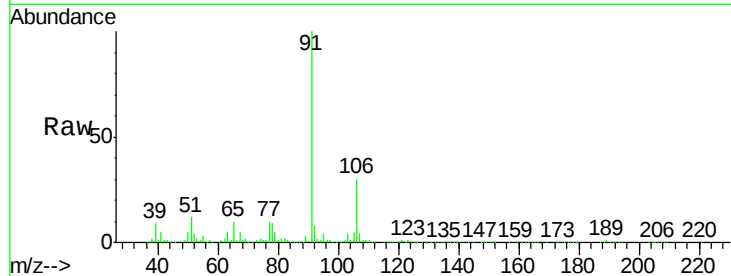
#67
Ethyl Benzene
Concen: 26.018 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-COMPOSITE

Tot Ion: 91 Resp: 174026
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6

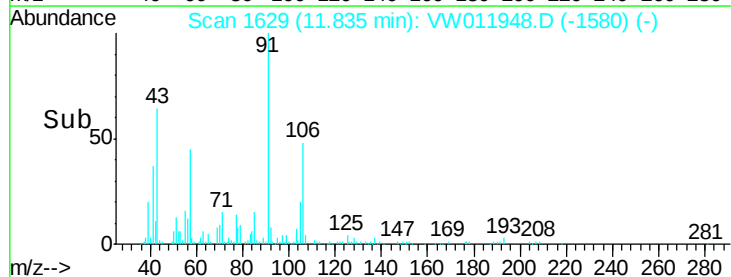
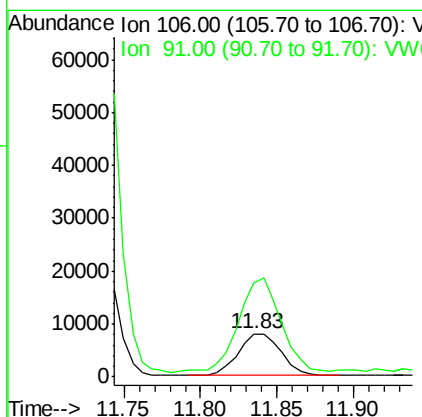
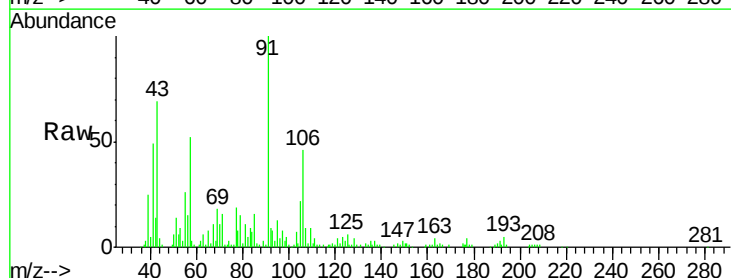
Manual Integrations
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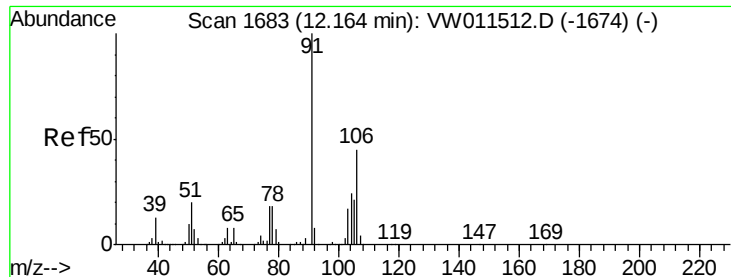
MMDadoda
8/16/2019 8:27:22 AM



#68
m/p-Xylenes
Concen: 6.347 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Tgt Ion: 106 Resp: 15438
Ion Ratio Lower Upper
106 100
91 220.8 168.2 252.2





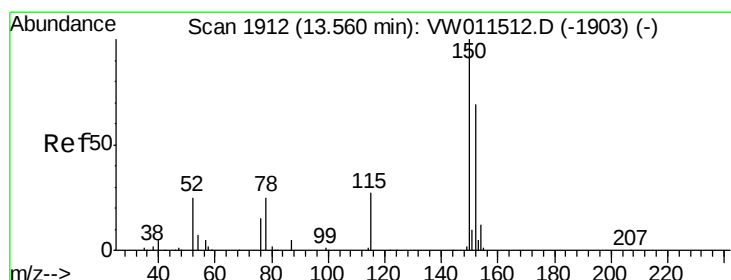
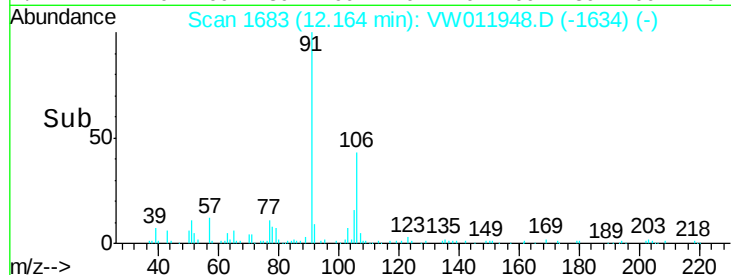
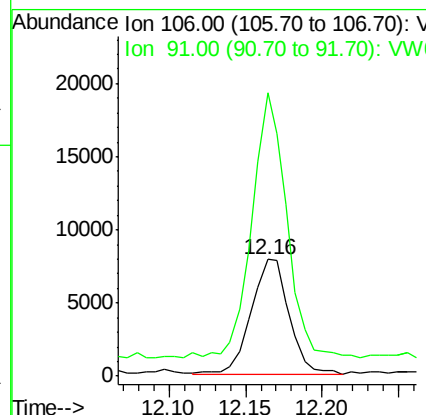
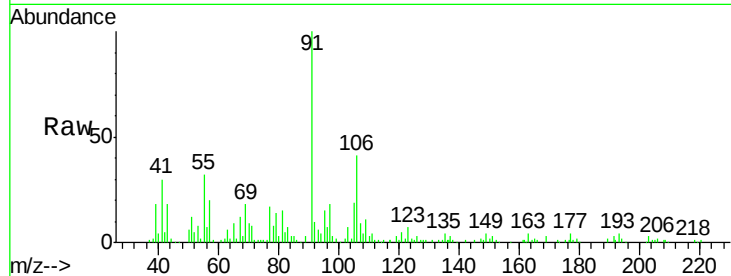
#69
o-Xylene
Concen: 6.046 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-COMPOSITE

Tot Ion:106 Resp: 13667
Ion Ratio Lower Upper
106 100
91 213.7 110.5 331.5

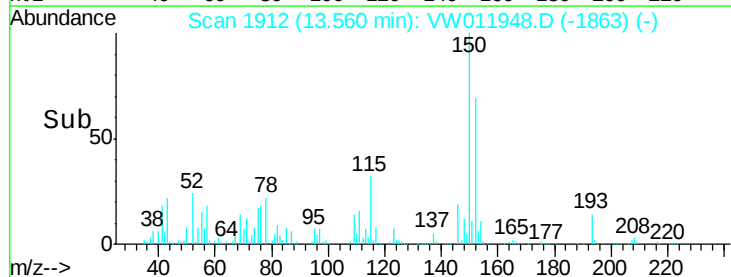
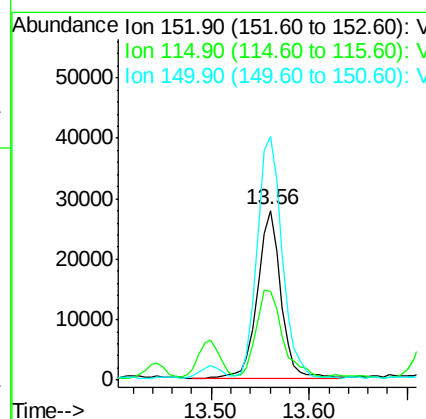
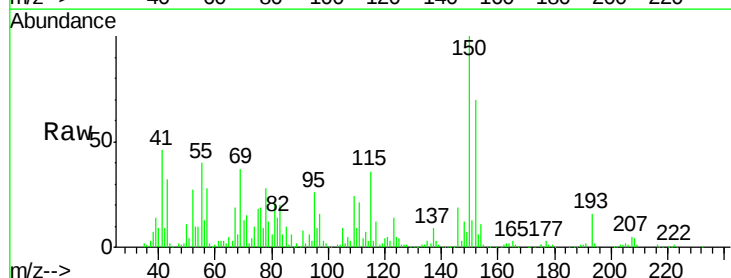
Manual Integrations
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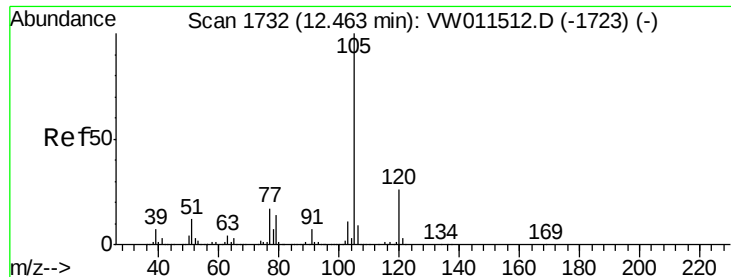
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Tgt Ion:152 Resp: 46569
Ion Ratio Lower Upper
152 100
115 57.3 30.5 91.5
150 151.7 0.0 352.6





#73

Isopropylbenzene

Concen: 142.528 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

Instrument :

MSVOA_W

ClientSampleId :

SOIL-COMPOSITE

Tot Ion:105 Resp: 495166

Ion Ratio Lower Upper

105 100

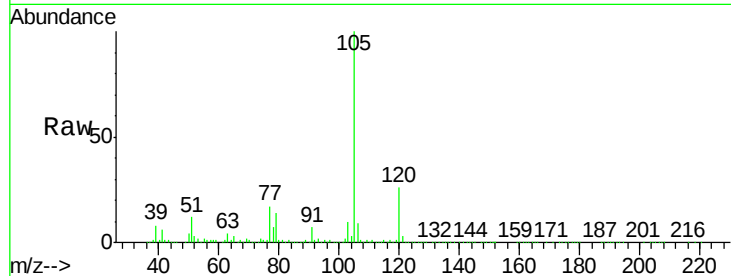
120 25.8 12.9 38.7

Manual Integrations

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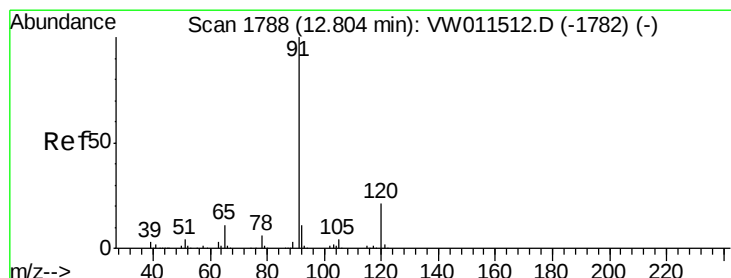
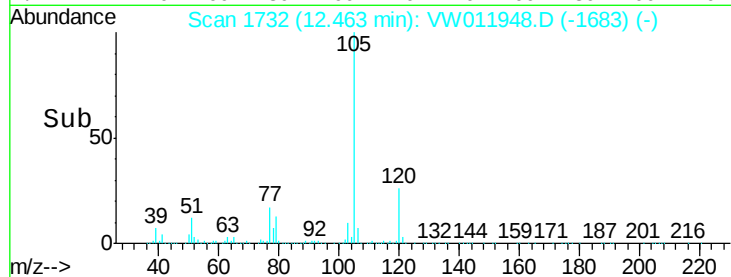
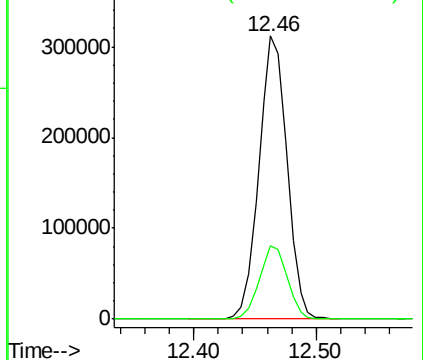
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 14.331 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW011948.D

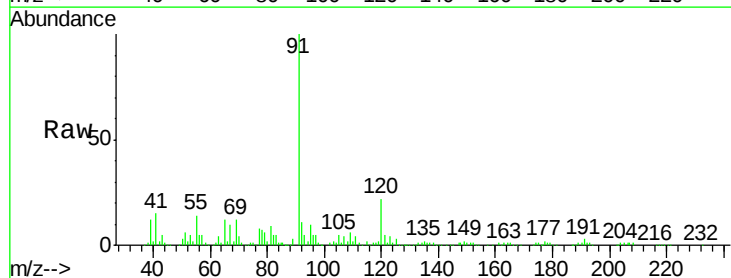
Acq: 16 Aug 2019 00:46

Tgt Ion: 91 Resp: 60594

Ion Ratio Lower Upper

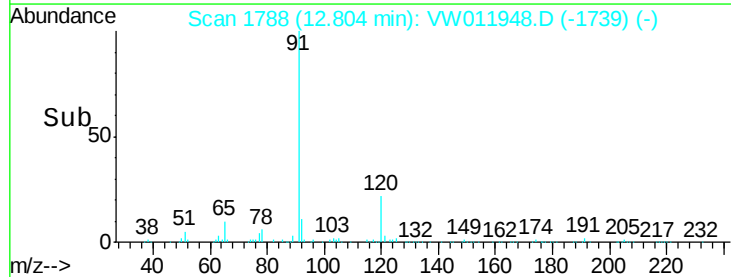
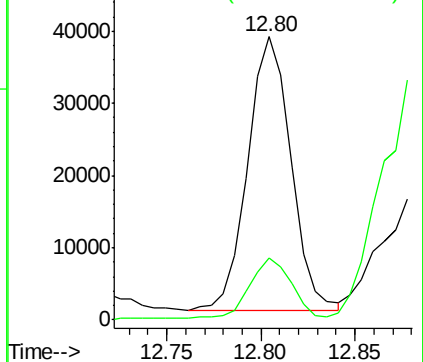
91 100

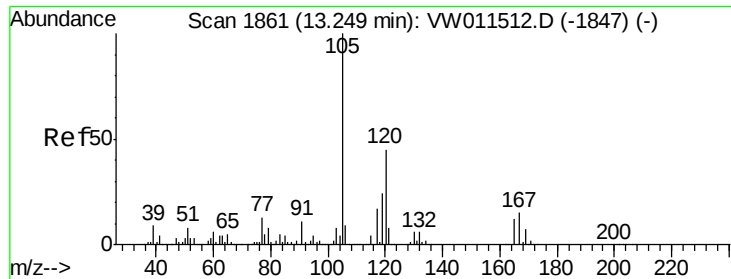
120 0.0 10.9 32.7#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 39.259 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW011948.D

Acq: 16 Aug 2019 00:46

Instrument :

MSVOA_W

ClientSampleId :

SOIL-COMPOSITE

Tot Ion:105 Resp: 115173

Ion Ratio Lower Upper

105 100

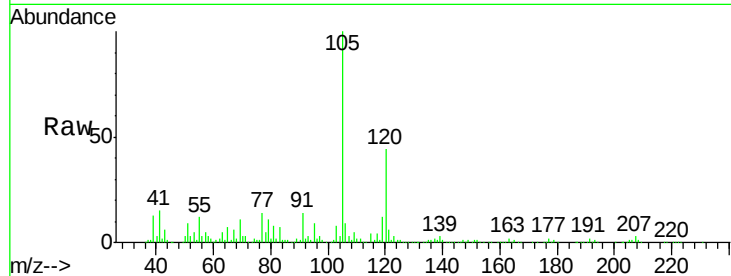
120 43.6 22.1 66.5

Manual Integrations

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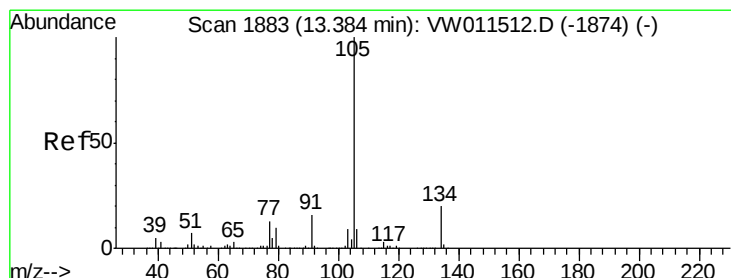
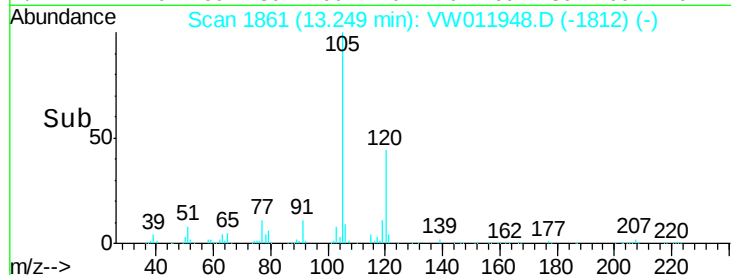
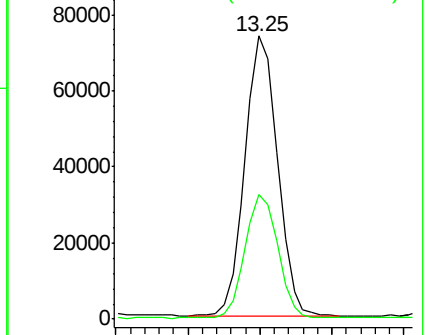
MMDadoda

8/16/2019 8:27:22 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 6.331 ug/l m

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW011948.D

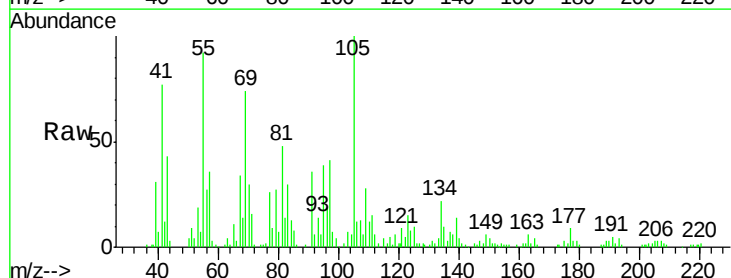
Acq: 16 Aug 2019 00:46

Tgt Ion:105 Resp: 21999

Ion Ratio Lower Upper

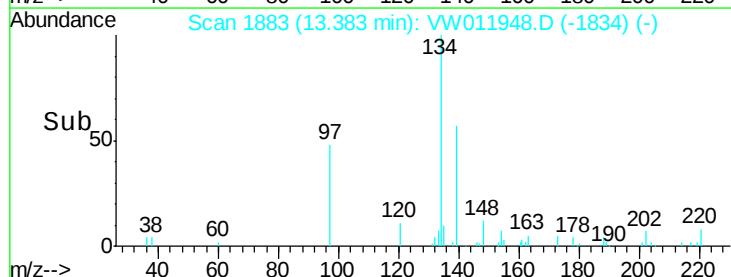
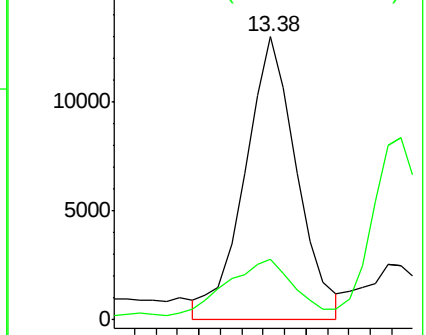
105 100

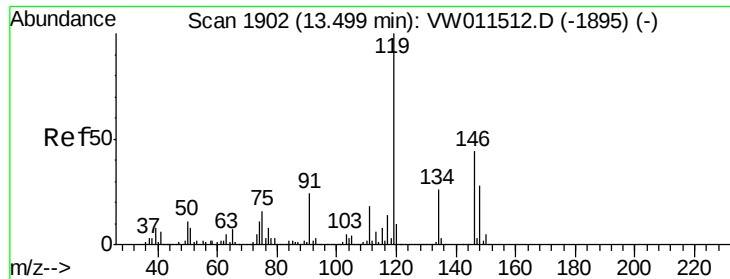
134 0.0 9.7 29.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





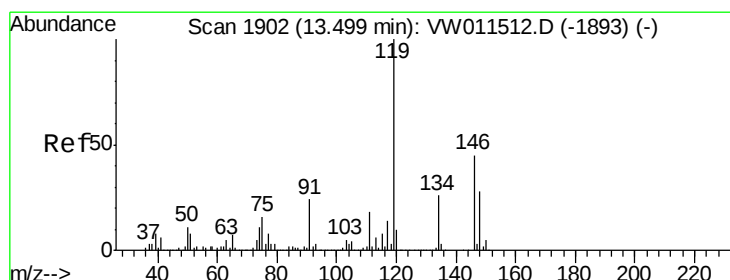
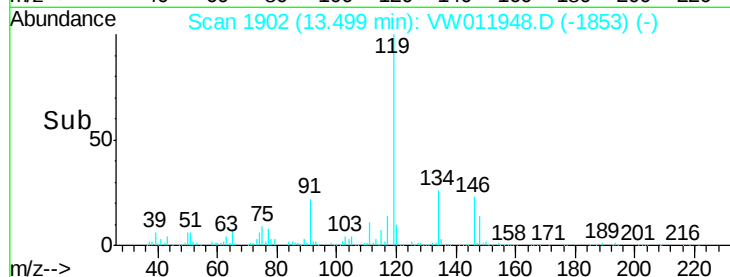
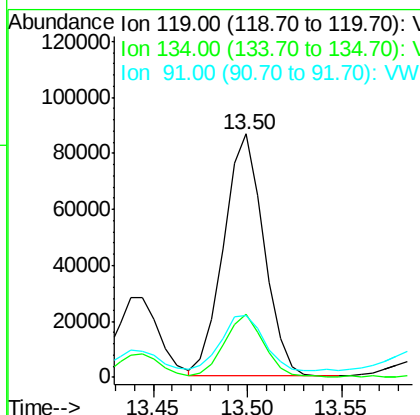
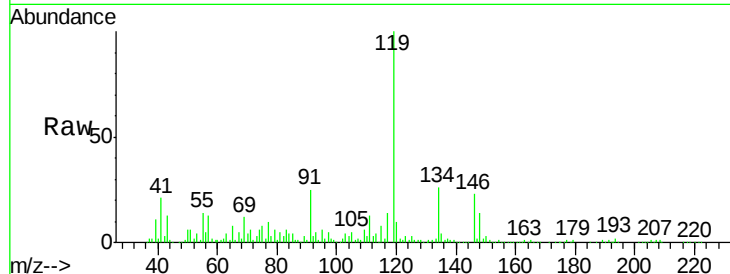
#86
 p-Isopropyltoluene
 Concen: 40.344 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW011948.D
 Acq: 16 Aug 2019 00:46

Instrument :
 MSVOA_W
 ClientSampleId :
 SOIL-COMPOSITE

Tot Ion	Ratio	Resp	Lower	Upper
119	100	127196		
134	25.4		12.8	38.4
91	24.2		12.1	36.3

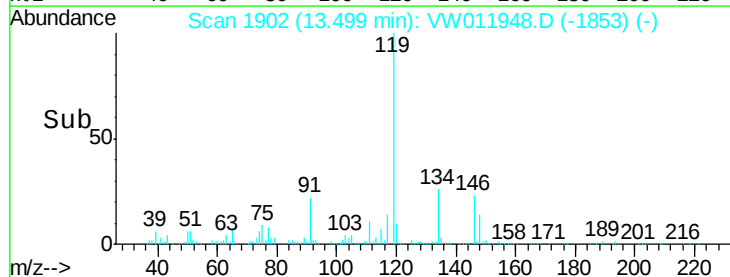
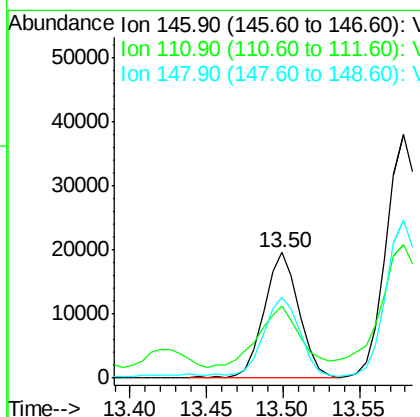
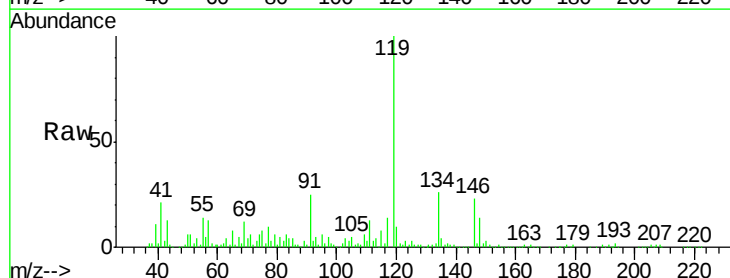
Manual Integrations
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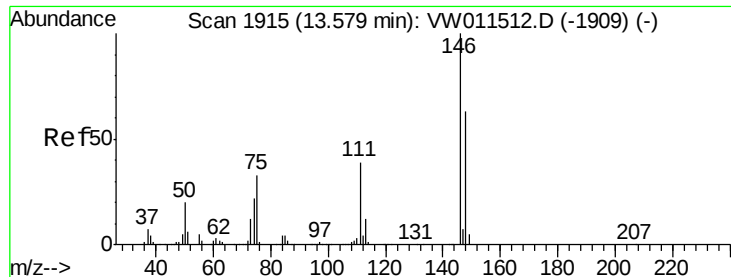
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#87
 1,3-Dichlorobenzene
 Concen: 20.488 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW011948.D
 Acq: 16 Aug 2019 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	30848		
111	58.2		20.5	61.6
148	67.3		31.8	95.3





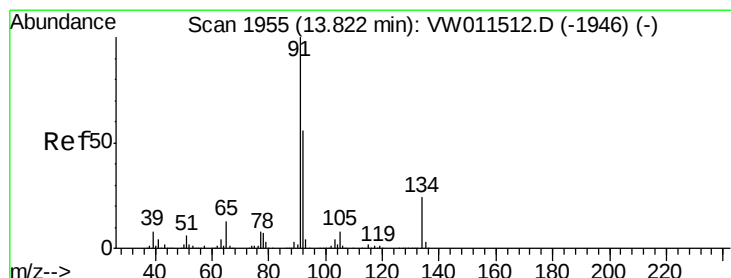
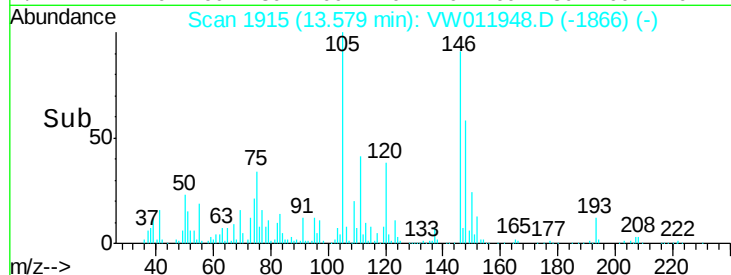
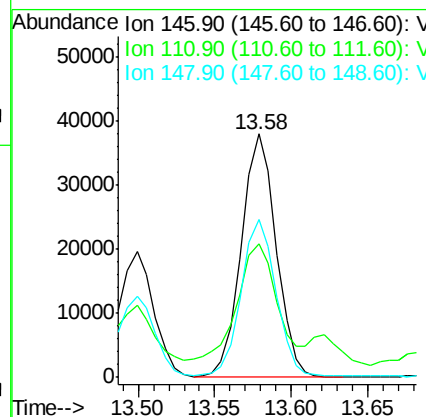
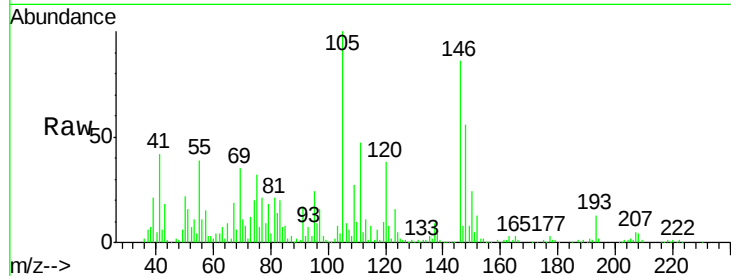
#88
 1,4-Dichlorobenzene
 Concen: 40.004 ug/l m
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW011948.D
 Acq: 16 Aug 2019 00:46

Instrument :
 MSVOA_W
 ClientSampleId :
 SOIL-COMPOSITE

Tot Ion	Ratio	Lower	Upper
146	100		
111	30.1	20.1	60.2
148	34.6	31.9	95.9

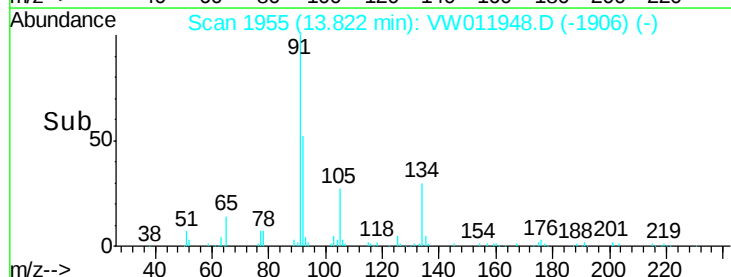
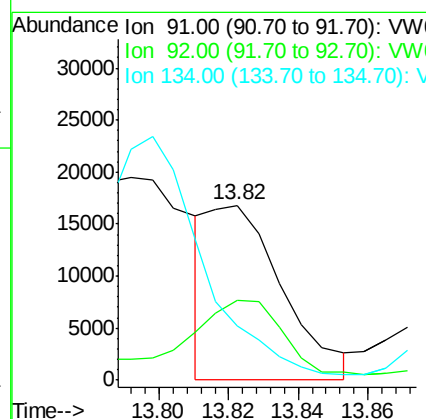
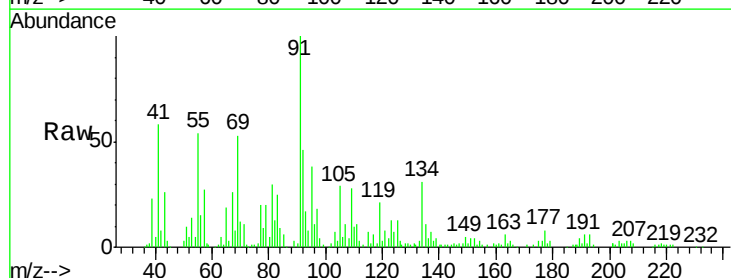
Manual Integrations
 APPROVED

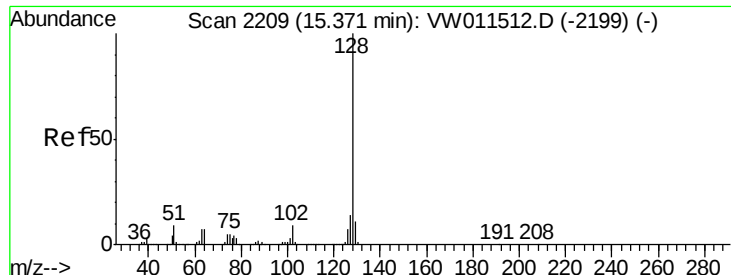
MMDadoda
 8/16/2019 8:27:22 AM



#89
 n-Butylbenzene
 Concen: 7.841 ug/l m
 RT: 13.82 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW011948.D
 Acq: 16 Aug 2019 00:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	27.5	82.4#
134	39.4	12.2	36.6#





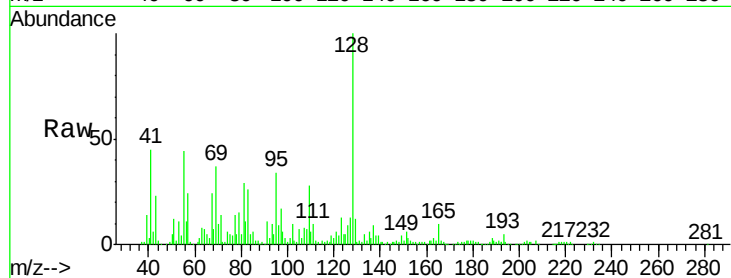
#95
Naphthalene
Concen: 37.871 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW011948.D
Acq: 16 Aug 2019 00:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-COMPOSITE

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.6	16.0
129	11.6	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:27:22 AM



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

