

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035353.D
 Acq On : 6 Aug 2020 17:11
 Operator : SY/AP
 Sample : L3554-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

Manual Integrations
 APPROVED

MMDadoda
 8/10/2020 10:43:20 AM

Quant Time: Aug 09 21:20:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1455858	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3587933	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3421470	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2861872	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	48991	0.253	ppbv	89
3) Chlorodifluoromethane	2.94	51	52796m	0.318	ppbv	
4) Chloromethane	3.09	50	51605	0.548	ppbv	99
9) Propene	2.96	41	96786m	1.634	ppbv	
10) Heptane	8.12	43	36506m	0.241	ppbv	
11) Trichlorofluoromethane	3.91	101	53644	0.214	ppbv	91
13) Ethanol	3.61	45	798132	39.077	ppbv	95
15) Acetone	3.81	43	2655819	12.846	ppbv	96
19) Isopropyl Alcohol	3.97	45	398831m	3.043	ppbv	
20) Methylene Chloride	4.31	84	503888	5.977	ppbv	99
26) Hexane	5.66	57	383604	2.815	ppbv #	47
29) Chloroform	5.74	83	357838	1.523	ppbv	94
30) Cyclohexane	7.13	84	16708	0.162	ppbv #	6
34) 2-Butanone	5.22	43	644255	3.647	ppbv	96
35) Carbon Tetrachloride	7.01	117	14104m	0.057	ppbv	
36) Benzene	6.88	78	75782m	0.313	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	107331m	0.249	ppbv	
51) 2-Hexanone	10.15	43	80654	0.381	ppbv #	99
52) Tetrachloroethene	11.22	164	11855m	0.123	ppbv	
53) Toluene	9.82	91	1023414	3.883	ppbv	98
54) 1,2-Dibromoethane	10.61	107	487641m	2.882	ppbv	
58) Ethyl Benzene	12.73	91	72805	0.204	ppbv	98
59) m/p-Xylene	12.99	91	232013	0.700	ppbv	99
60) o-Xylene	13.72	91	110572m	0.336	ppbv	
72) 4-Ethyltoluene	15.87	105	80296m	0.214	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	76710m	0.213	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	284375	0.691	ppbv #	71
76) 1,4-Dichlorobenzene	17.16	146	39947m	0.160	ppbv	
79) Naphthalene	22.25	128	113569m	0.359	ppbv	
80) Naphthalene,2-methyl-	25.00	142	13289	0.185	ppbv #	88

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

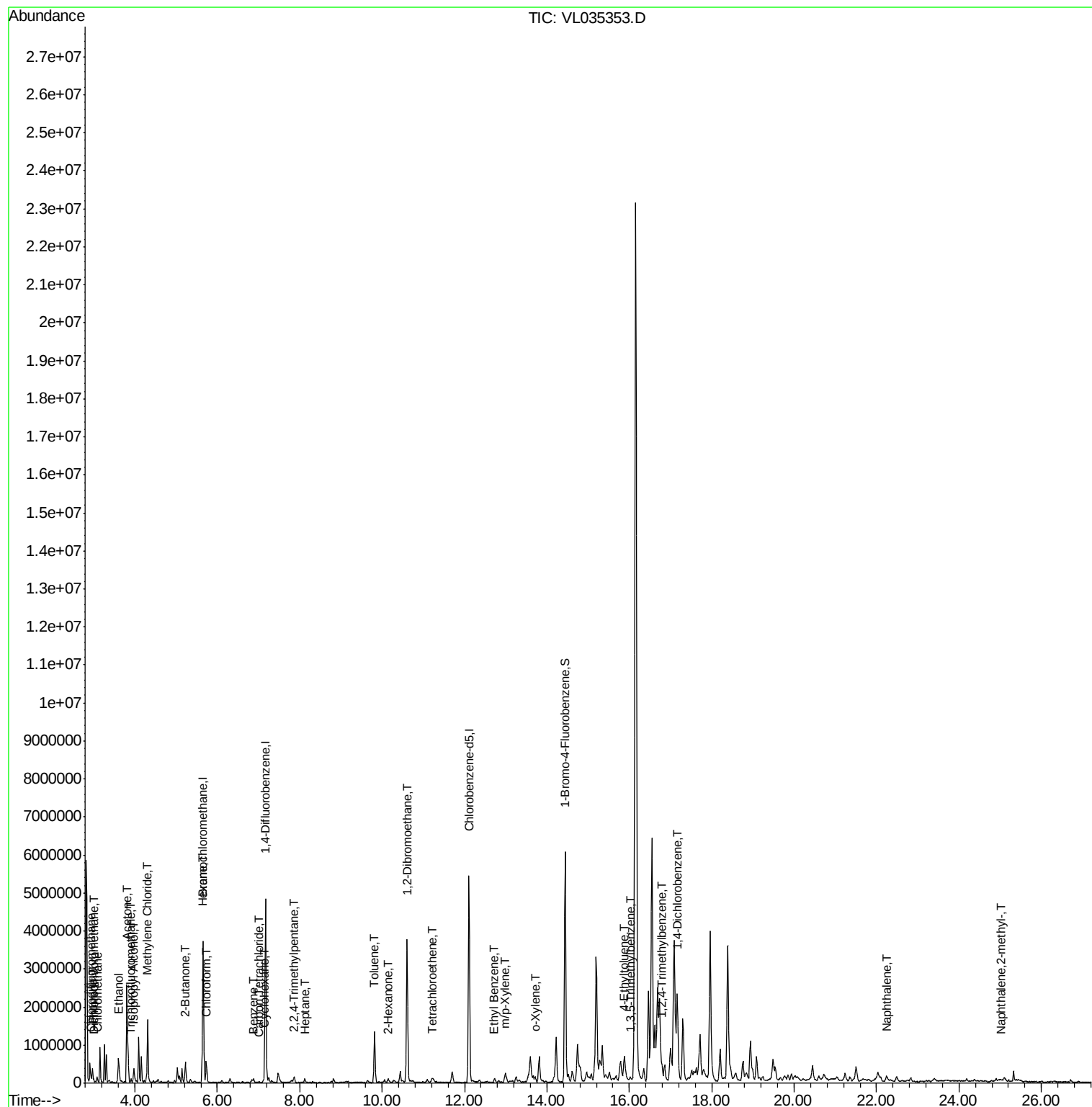
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080620\
Data File : VL035353.D
Acq On : 6 Aug 2020 17:11
Operator : SY/AP
Sample : L3554-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

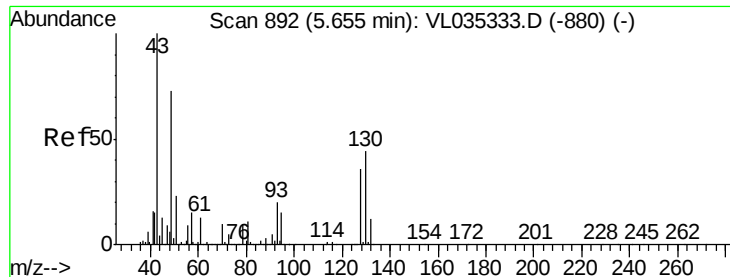
Instrument :
MSVOA_L
ClientSampleId :
4-UNDER-GROUND

Manual Integrations
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MMDadoda
8/10/2020 10:43:20 AM

Quant Time: Aug 09 21:20:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion: 49 Resp: 1455858

Ion Ratio Lower Upper

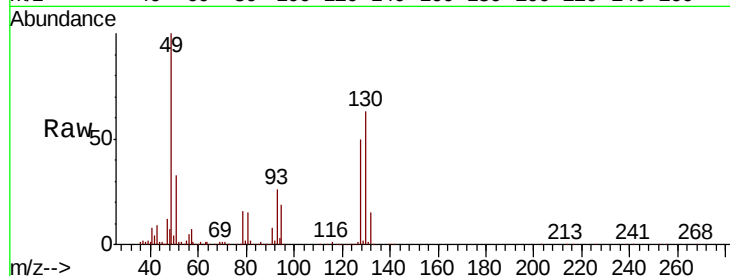
49 100

128 49.9 25.4 76.0

130 62.9 32.1 96.3

Manual Integrations
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8/10/2020 10:43:20 AM

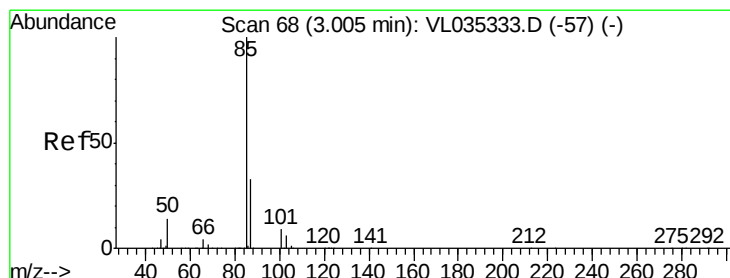
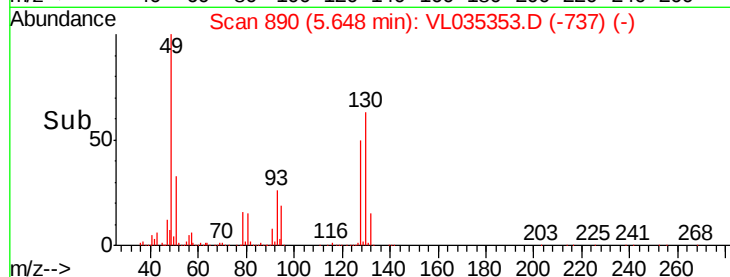


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



#2

Dichlorodifluoromethane

Concen: 0.253 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035353.D

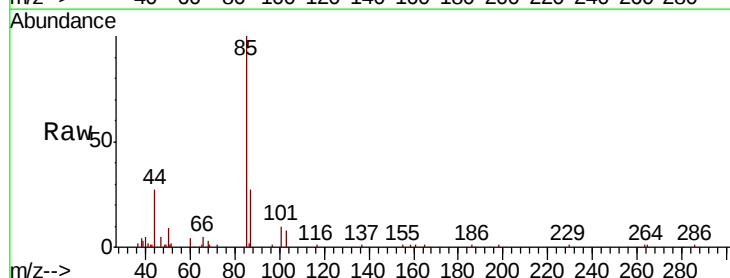
Acq: 6 Aug 2020 17:11

Tgt Ion: 85 Resp: 48991

Ion Ratio Lower Upper

85 100

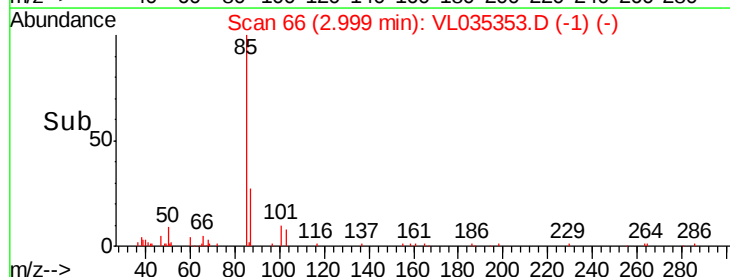
87 27.2 26.7 40.1

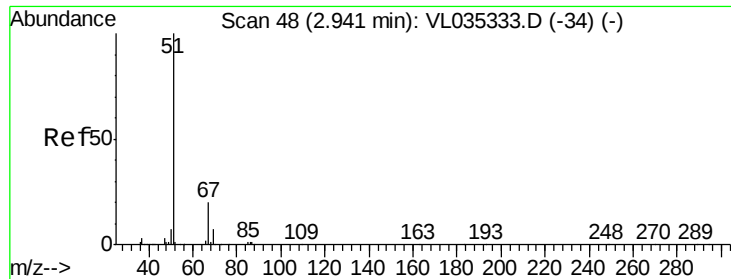


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->





#3

Chlorodifluoromethane

Concen: 0.318 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.00 min

Lab File: VL035333.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion: 51 Resp: 52796

Ion Ratio Lower Upper

51 100

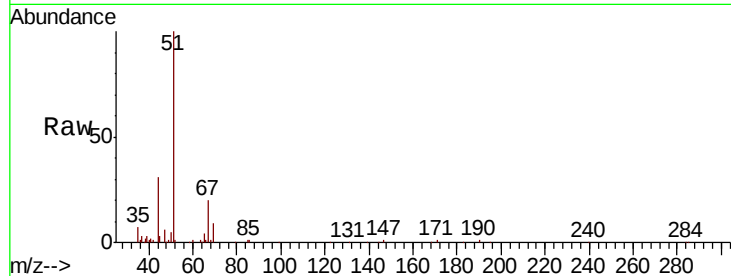
67 22.8 16.6 25.0

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

200000

150000

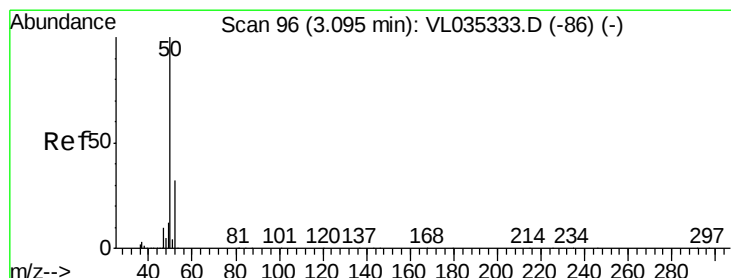
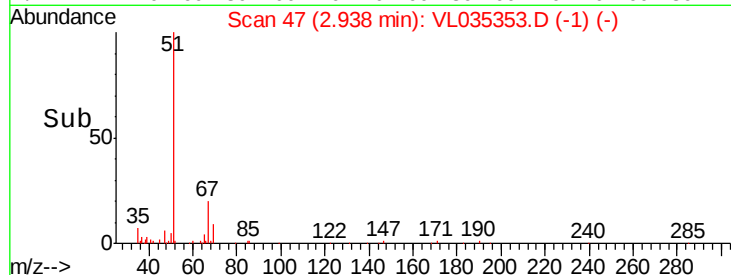
100000

50000

0

2.92 2.94 2.96

Time-->



#4

Chloromethane

Concen: 0.548 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.00 min

Lab File: VL035333.D

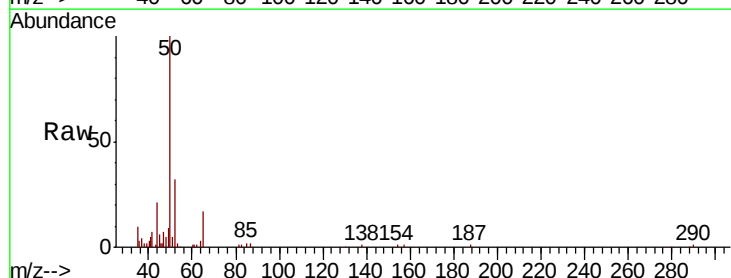
Acq: 6 Aug 2020 17:11

Tgt Ion: 50 Resp: 51605

Ion Ratio Lower Upper

50 100

52 31.7 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

40000

30000

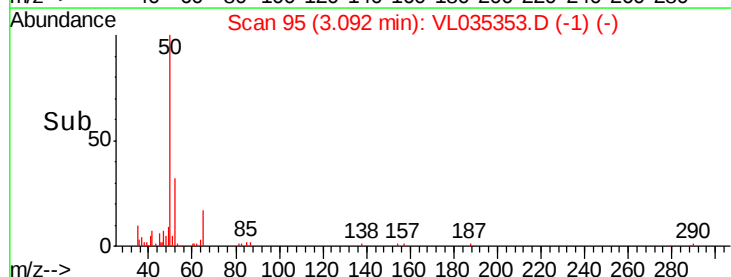
20000

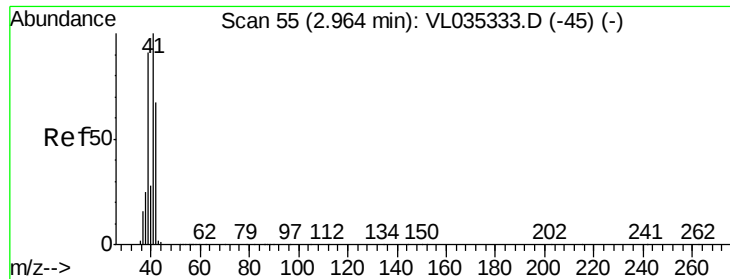
10000

0

3.05 3.10

Time-->





#9

Propene

Concen: 1.634 ppbv m

RT: 2.96 min Scan# 55

Delta R.T. -0.00 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion: 41 Resp: 96786

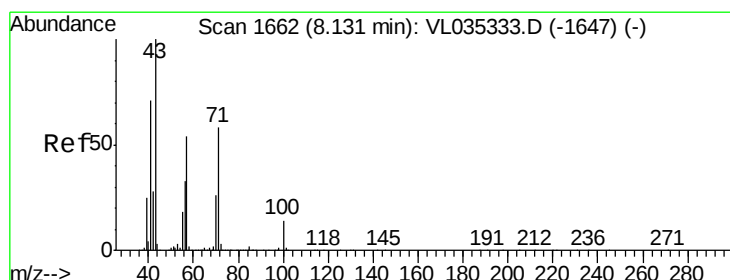
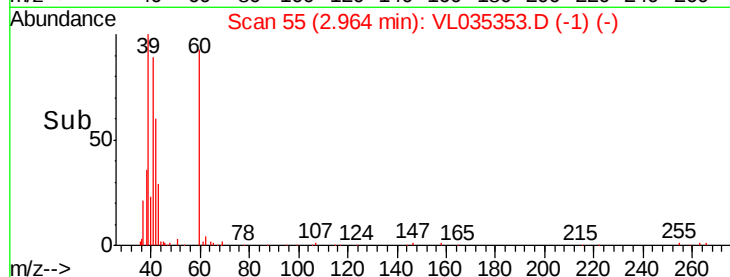
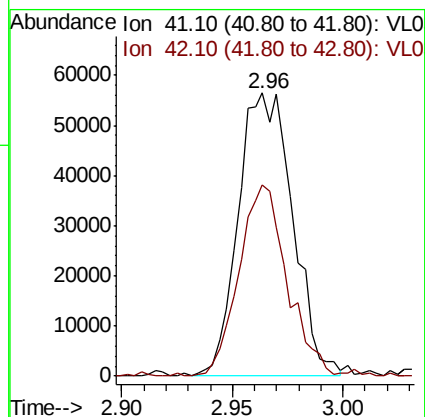
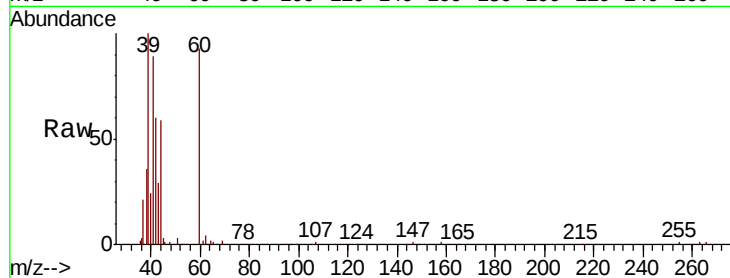
Ion Ratio Lower Upper

41 100

42 61.2 55.3 82.9

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#10

Heptane

Concen: 0.241 ppbv m

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL035353.D

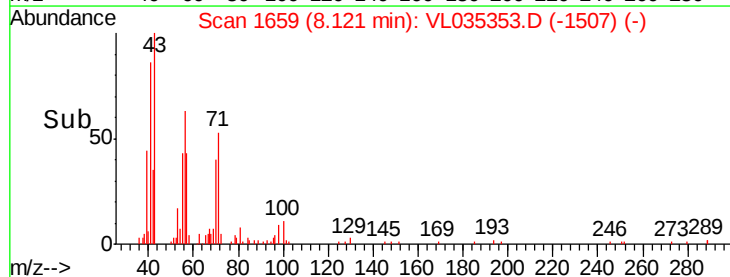
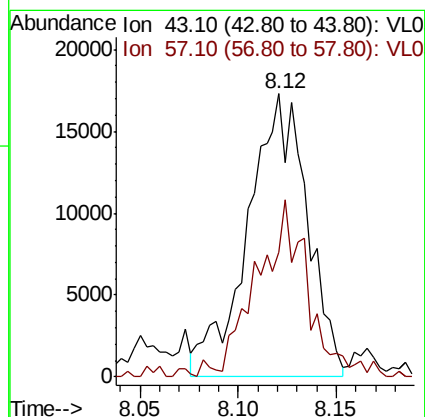
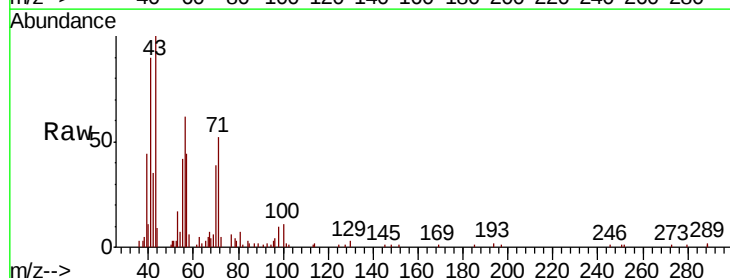
Acq: 6 Aug 2020 17:11

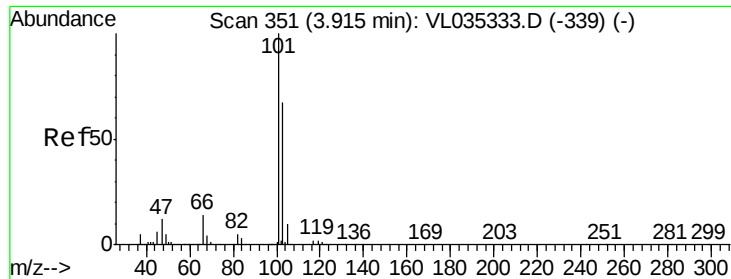
Tgt Ion: 43 Resp: 36506

Ion Ratio Lower Upper

43 100

57 0.0 43.0 64.6#





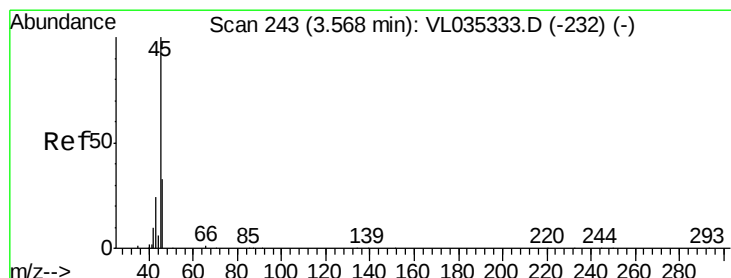
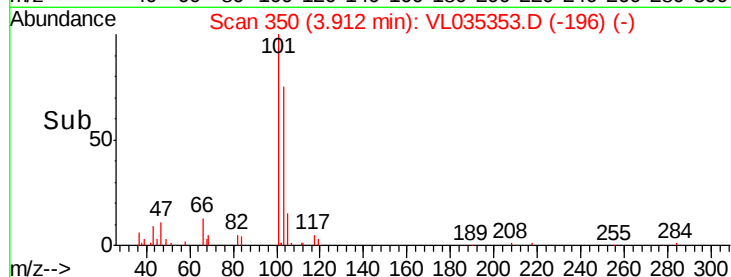
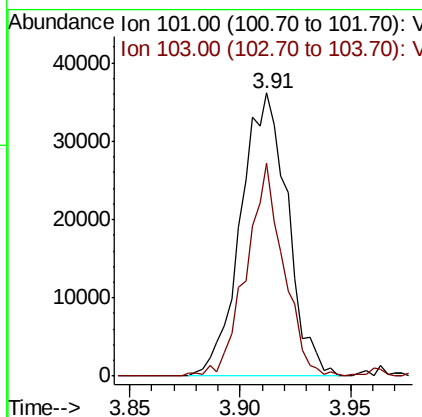
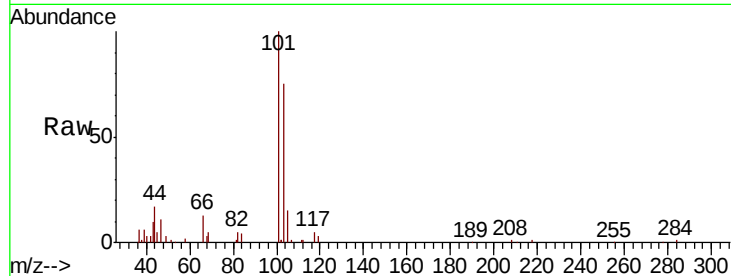
#11
 Trichlorofluoromethane
 Concen: 0.214 ppbv
 RT: 3.91 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VL035353.D
 Acq: 6 Aug 2020 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		53644		
103	74.5	53.8	80.8		

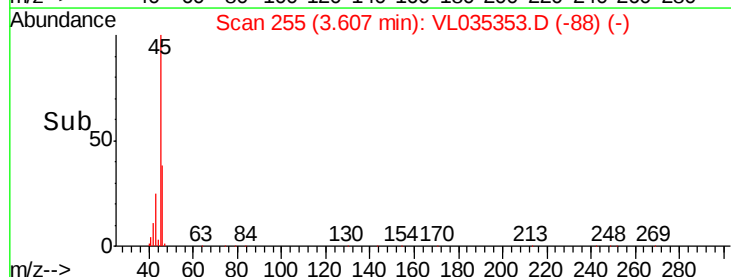
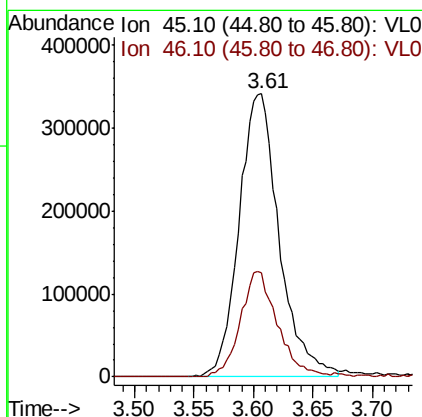
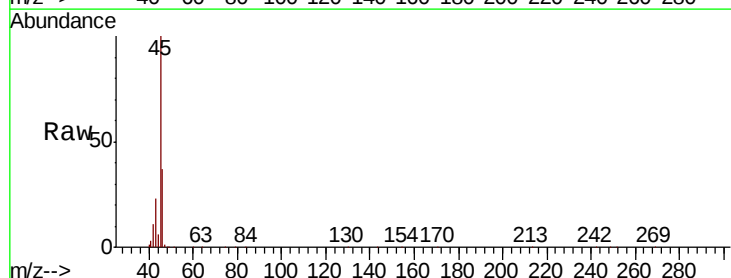
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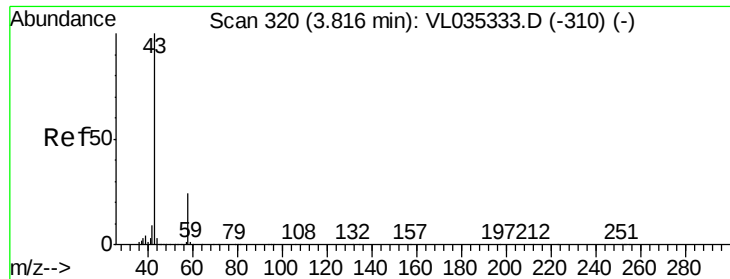
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#13
 Ethanol
 Concen: 39.077 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. 0.04 min
 Lab File: VL035353.D
 Acq: 6 Aug 2020 17:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		798132		
46	35.2	15.2	61.0		





#15

Acetone

Concen: 12.846 ppbv

RT: 3.81 min Scan# 317

Delta R.T. -0.01 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion: 43 Resp: 2655819

Ion Ratio Lower Upper

43 100

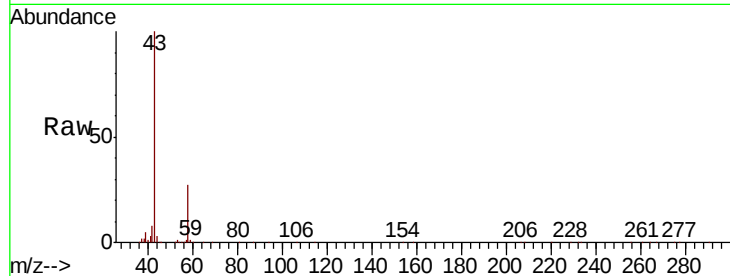
58 28.4 21.0 31.4

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.81

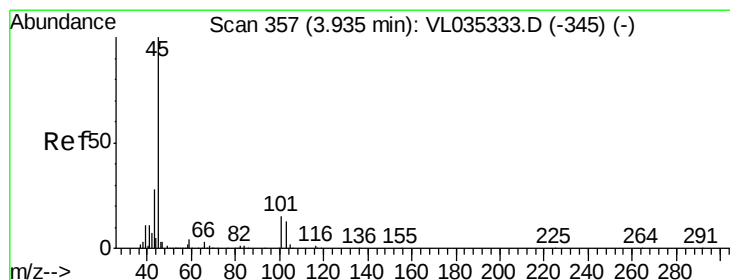
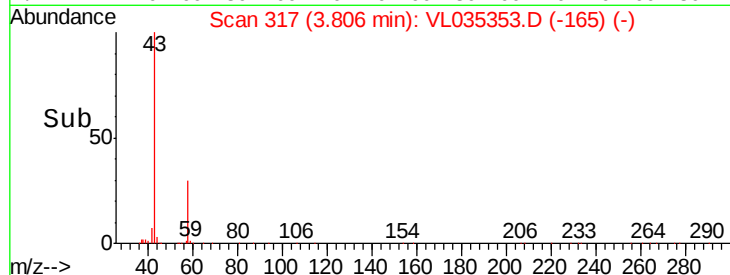
1500000

1000000

500000

0

Time-->



#19

Isopropyl Alcohol

Concen: 3.043 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.04 min

Lab File: VL035353.D

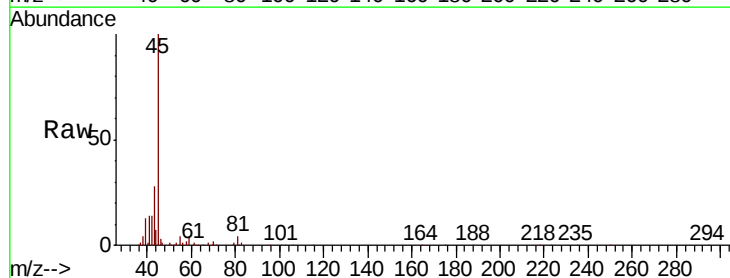
Acq: 6 Aug 2020 17:11

Tgt Ion: 45 Resp: 398831

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

200000

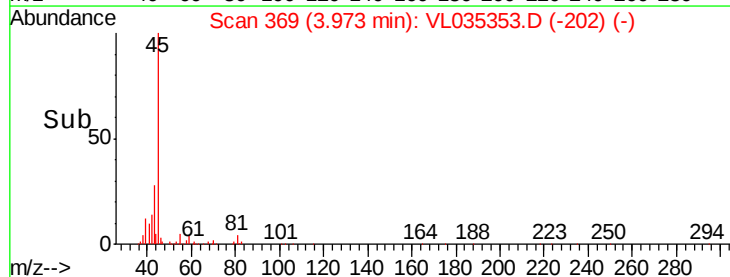
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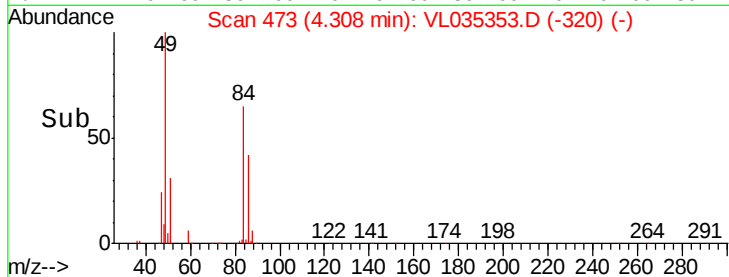
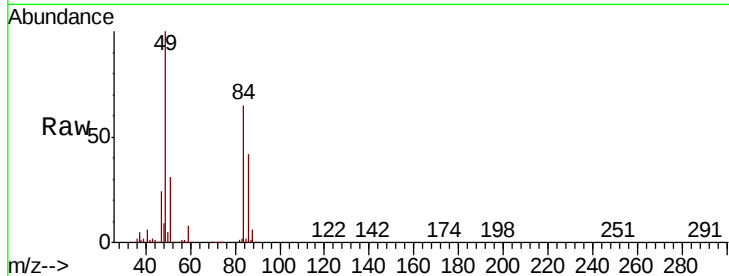
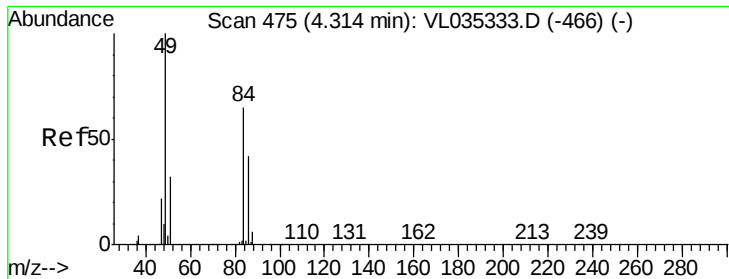
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50000

0

Time-->





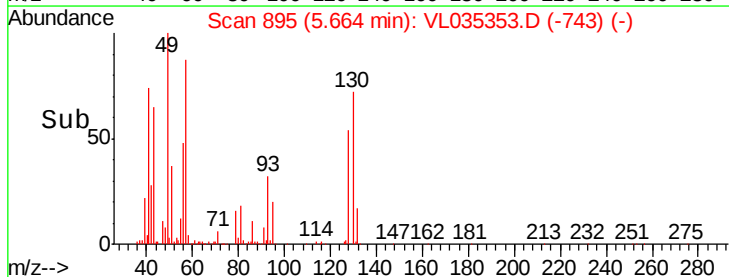
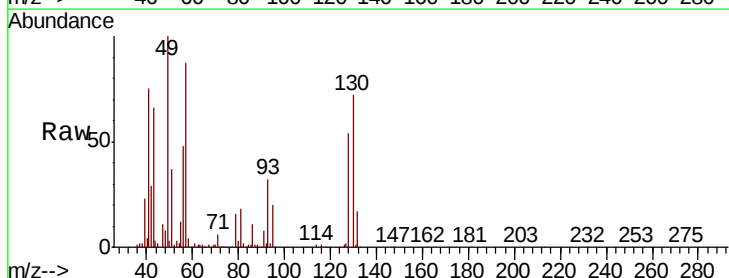
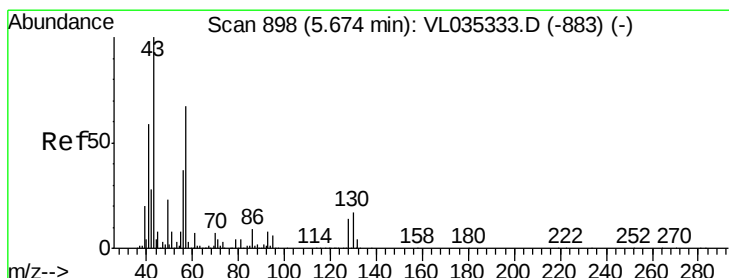
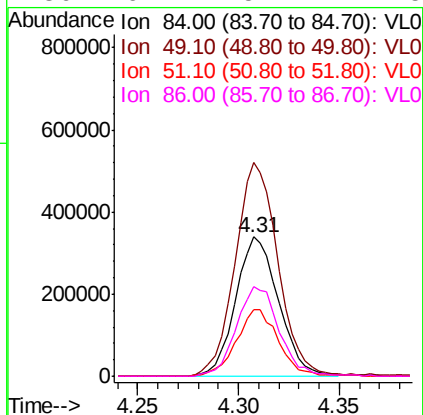
#20
Methvlene Chloride
Concen: 5.977 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.01 min
Lab File: VL035353.D
Acq: 6 Aug 2020 17:11

Tot Ion:	84	Resp:	503888
Ion	Ratio	Lower	Upper
84	100		
49	153.5	122.8	184.2
51	48.2	40.1	60.1
86	64.7	51.7	77.5

Instrument :
MSVOA_L
ClientSampleId :
4-UNDER-GROUND

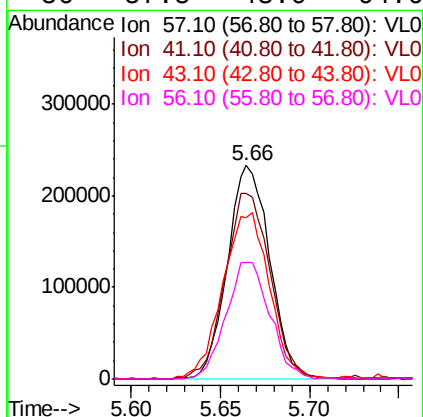
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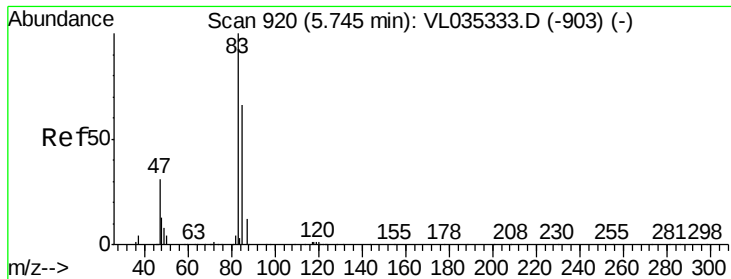
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#26
Hexane
Concen: 2.815 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035353.D
Acq: 6 Aug 2020 17:11

Tgt Ion:	57	Resp:	383604
Ion	Ratio	Lower	Upper
57	100		
41	93.9	75.2	112.8
43	85.7	180.6	270.8#
56	57.5	43.0	64.6





#29

Chloroform

Concen: 1.523 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.01 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion: 83 Resp: 357838

Ion Ratio Lower Upper

83 100

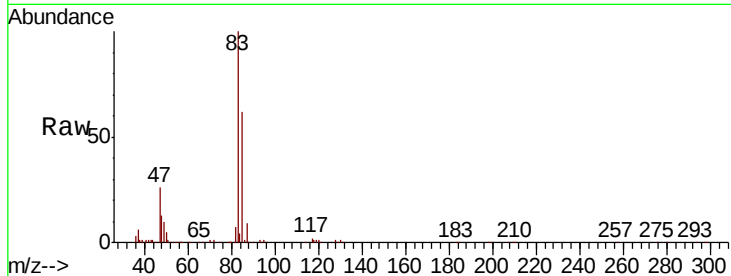
85 61.4 52.9 79.3

Manual Integrations

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8/10/2020 10:43:20 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.74

200000

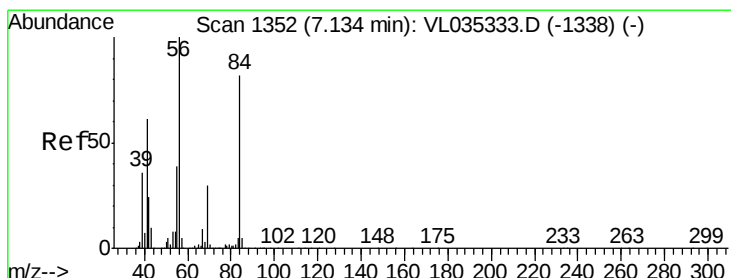
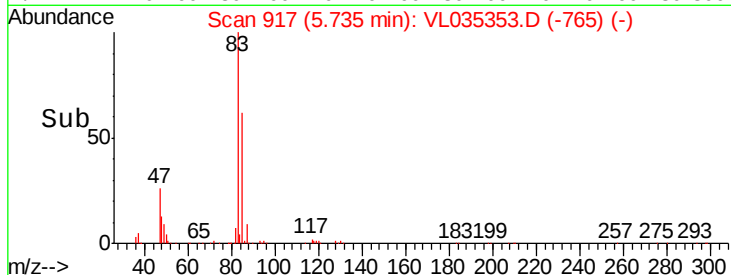
150000

100000

50000

0

Time-->



#30

Cyclohexane

Concen: 0.162 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.00 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

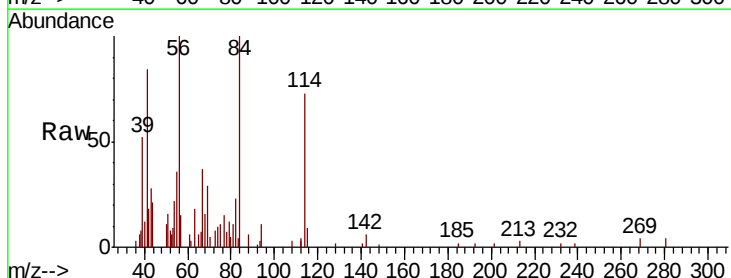
Tgt Ion: 84 Resp: 16708

Ion Ratio Lower Upper

84 100

56 0.0 104.7 157.1#

41 137.0 64.2 96.2#



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

50000

40000

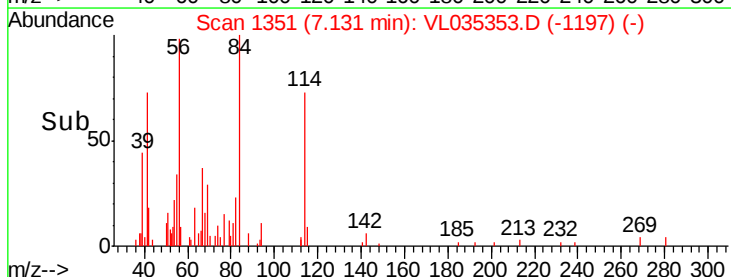
30000

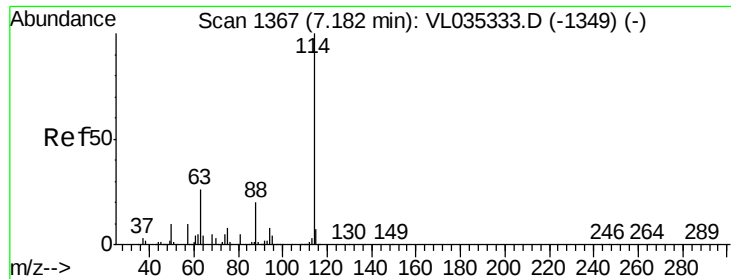
20000

10000

0

Time-->





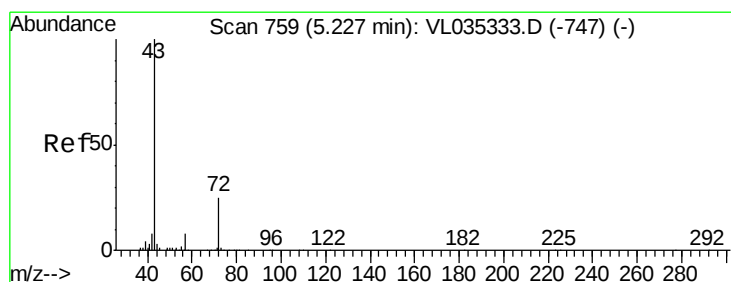
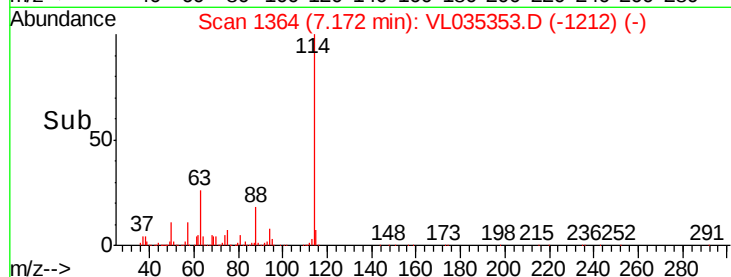
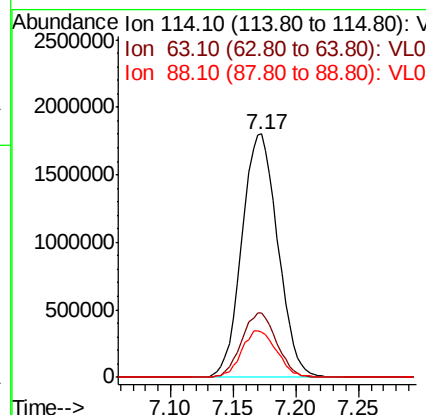
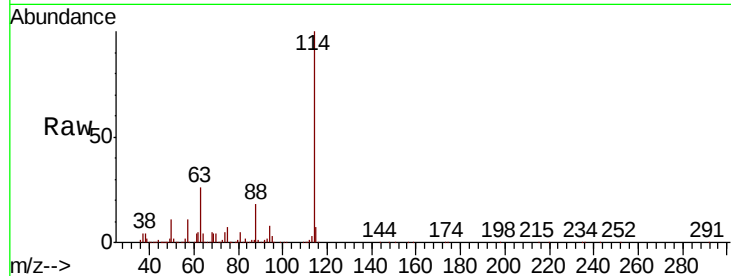
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL035353.D
 Acq: 6 Aug 2020 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.3	31.9
88	18.8	15.3	22.9

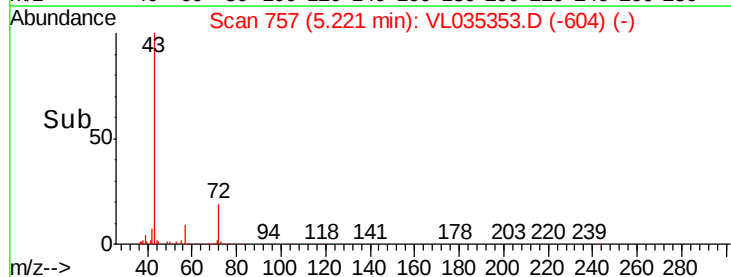
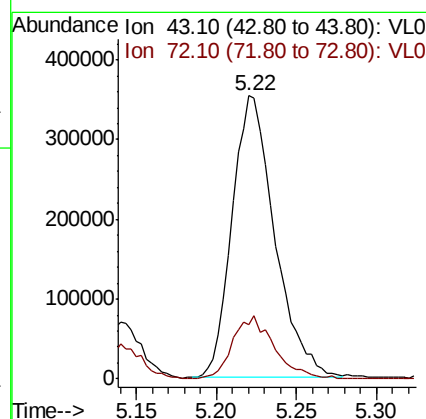
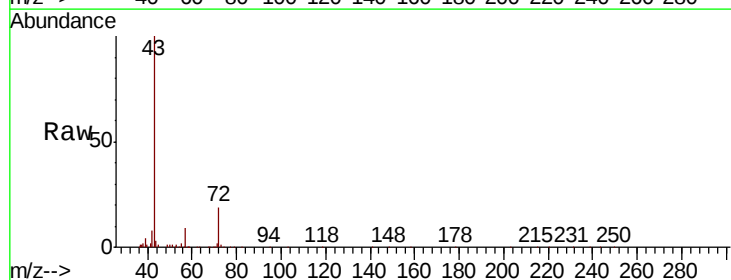
Manual Integrations
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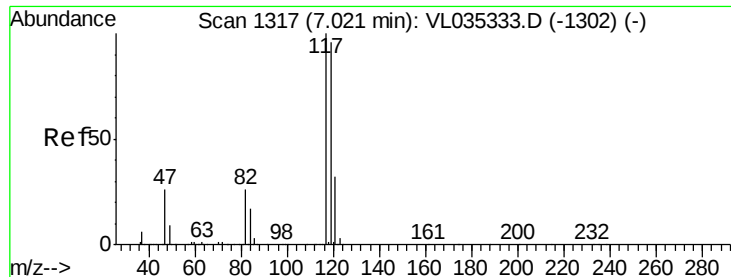
MMDadoda
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#34
 2-Butanone
 Concen: 3.647 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.01 min
 Lab File: VL035353.D
 Acq: 6 Aug 2020 17:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.9	28.3





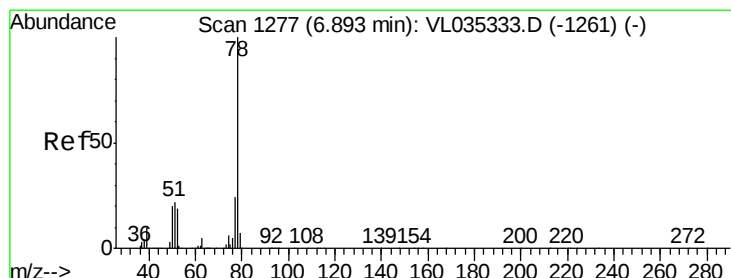
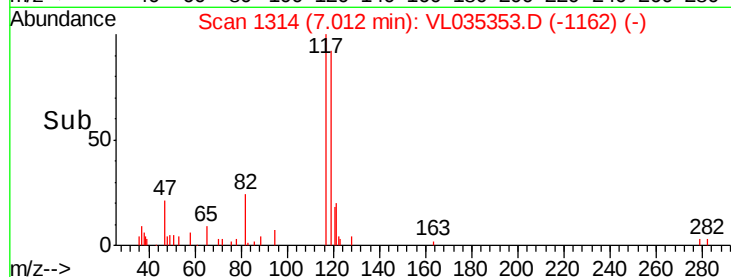
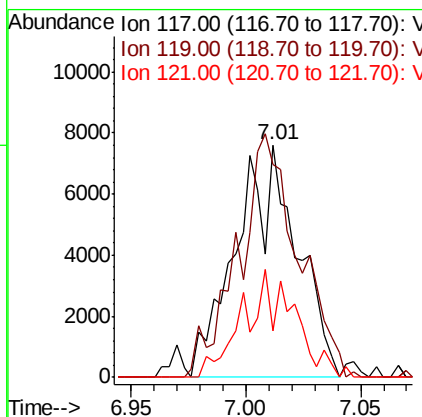
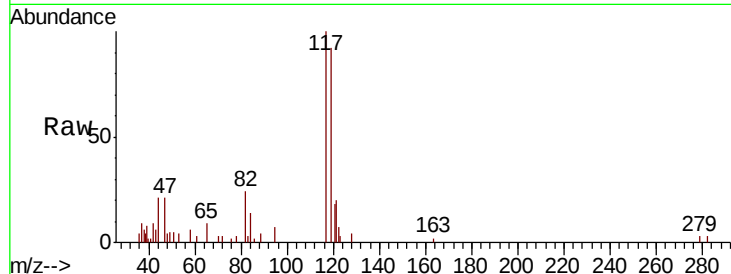
#35
Carbon Tetrachloride
Concen: 0.057 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.01 min
Lab File: VL035353.D
Acq: 6 Aug 2020 17:11

Instrument :
MSVOA_L
ClientSampleId :
4-UNDER-GROUND

Tot Ion	Ratio	Lower	Upper
117	100		
119	91.7	77.0	115.6
121	20.0	26.0	39.0#

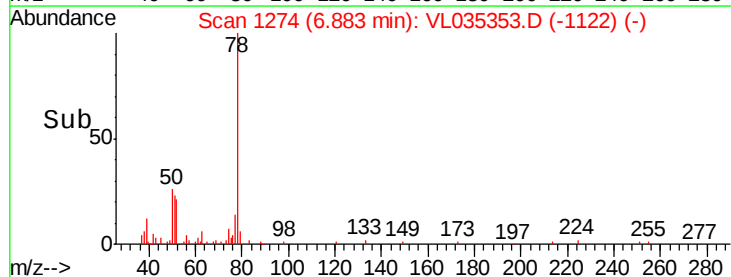
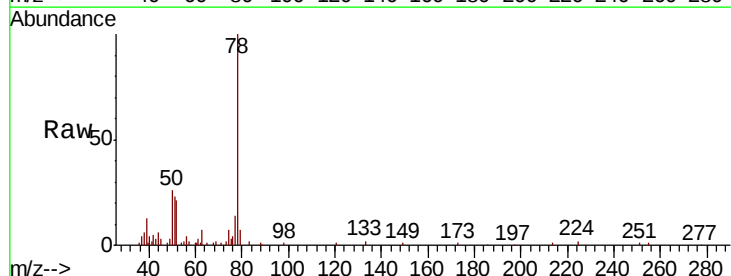
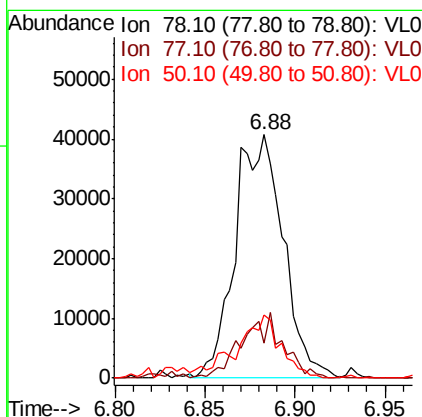
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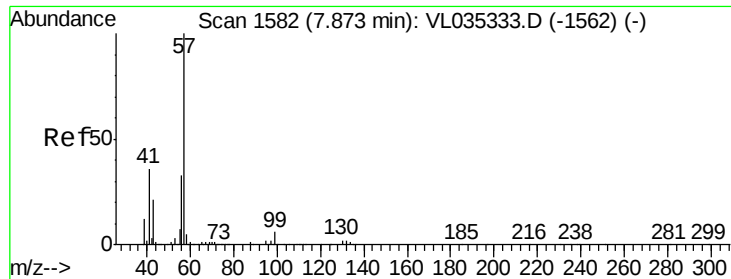
MMDadoda
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#36
Benzene
Concen: 0.313 ppbv m
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL035353.D
Acq: 6 Aug 2020 17:11

Tgt Ion	Ratio	Lower	Upper
78	100		
77	14.4	19.3	28.9#
50	25.9	16.3	24.5#





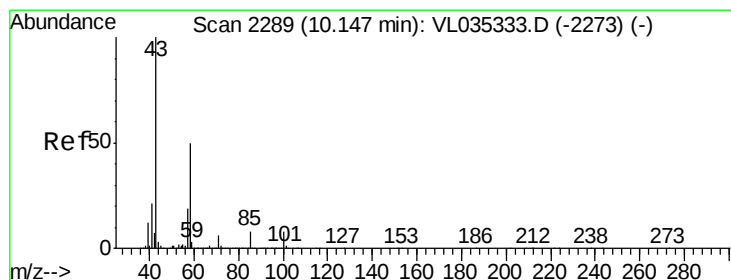
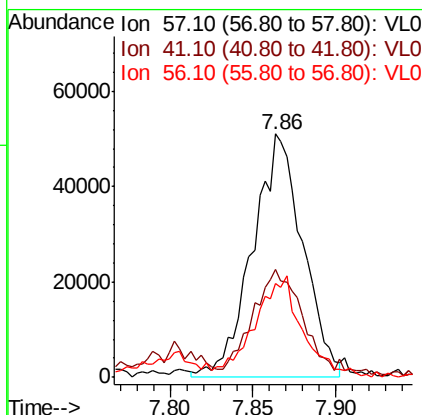
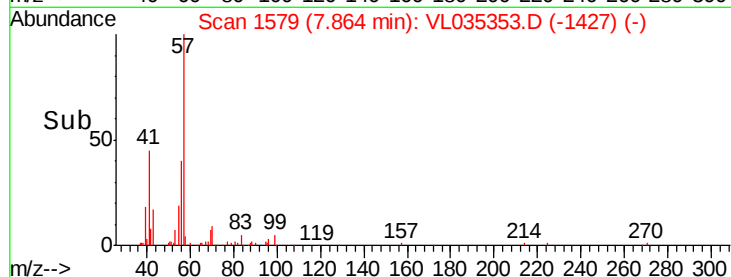
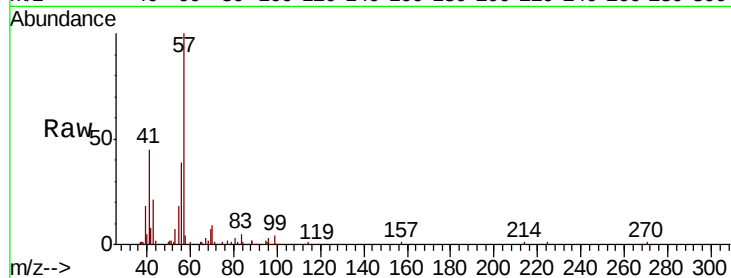
#44
 2,2,4-Trimethylpentane
 Concen: 0.249 ppbv m
 RT: 7.86 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: VL035353.D
 Acq: 6 Aug 2020 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

Tot Ion	Ratio	Lower	Upper
57	100		
41	45.3	27.9	41.9#
56	39.8	25.4	38.0#

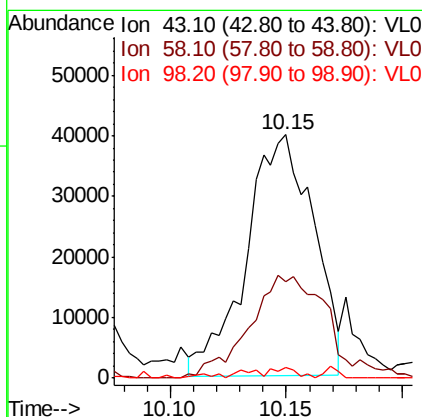
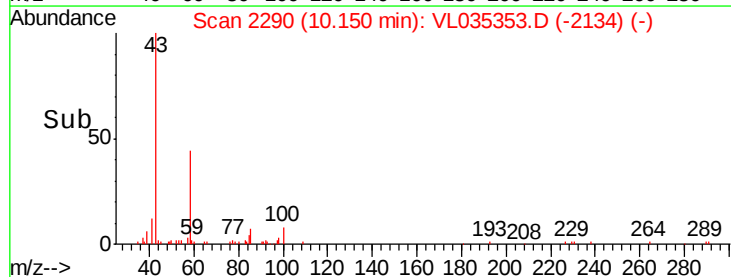
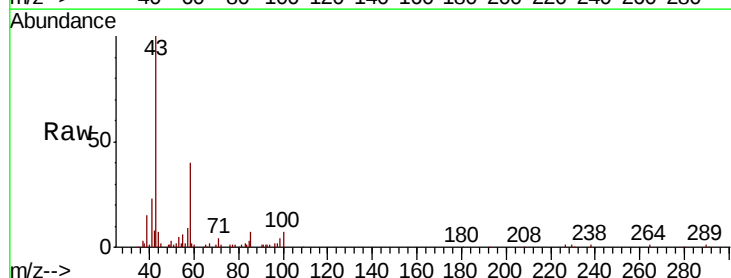
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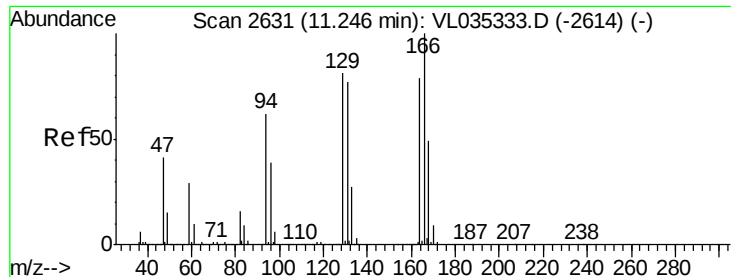
MMDadoda
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#51
 2-Hexanone
 Concen: 0.381 ppbv
 RT: 10.15 min Scan# 2290
 Delta R.T. 0.00 min
 Lab File: VL035353.D
 Acq: 6 Aug 2020 17:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	50.2	39.4	59.2
98	0.0	0.2	0.4#





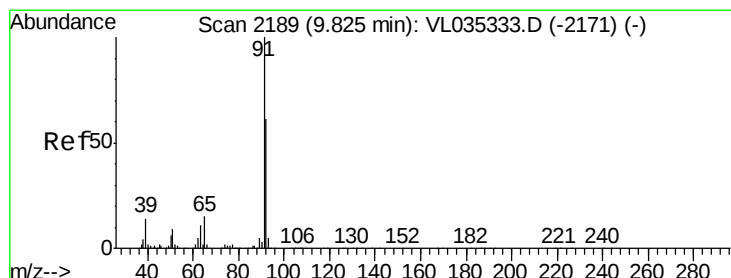
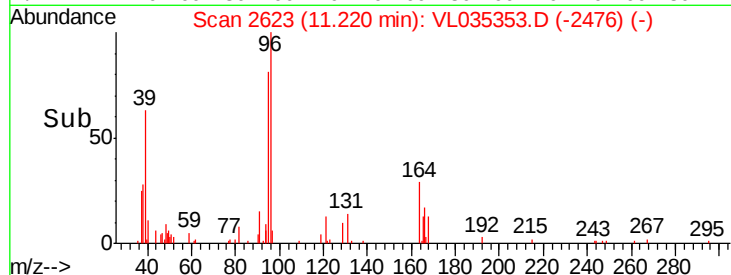
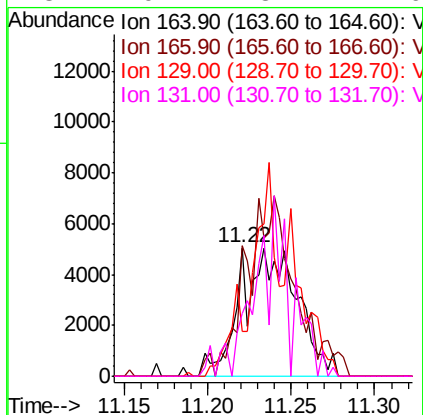
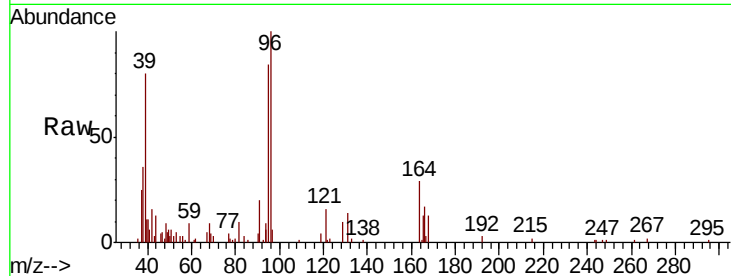
#52
Tetrachloroethene
Concen: 0.123 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. -0.03 min
Lab File: VL035353.D
Acq: 6 Aug 2020 17:11

Instrument :
MSVOA_L
ClientSampleId :
4-UNDER-GROUND

Tot Ion	Ratio	Lower	Upper
164	100		
166	57.2	101.4	152.0#
129	35.3	82.1	123.1#
131	49.1	78.4	117.6#

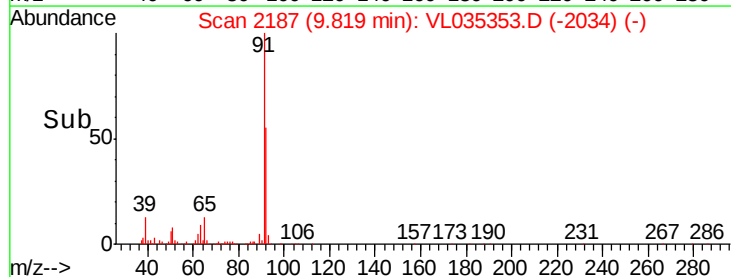
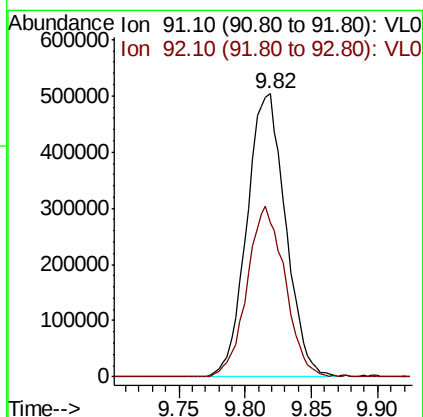
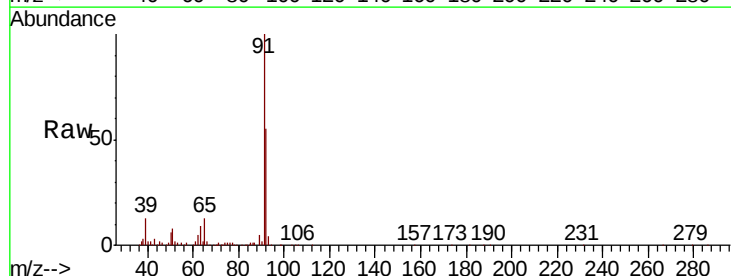
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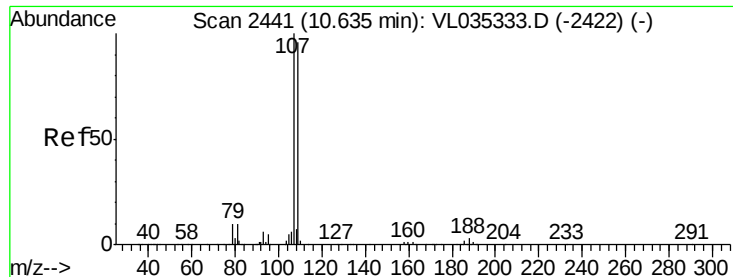
MMDadoda
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#53
Toluene
Concen: 3.883 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.01 min
Lab File: VL035353.D
Acq: 6 Aug 2020 17:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.2	48.5	72.7





#54

1,2-Dibromoethane

Concen: 2.882 ppbv m

RT: 10.61 min Scan# 2433

Delta R.T. -0.03 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion:107 Resp: 487641

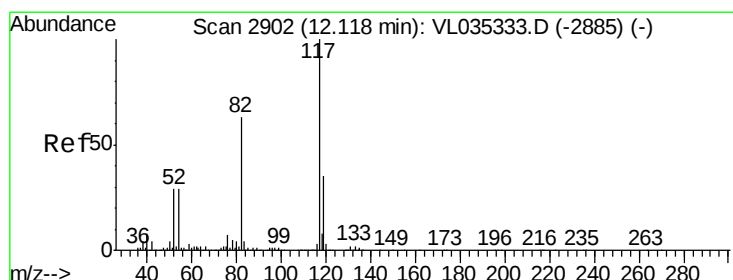
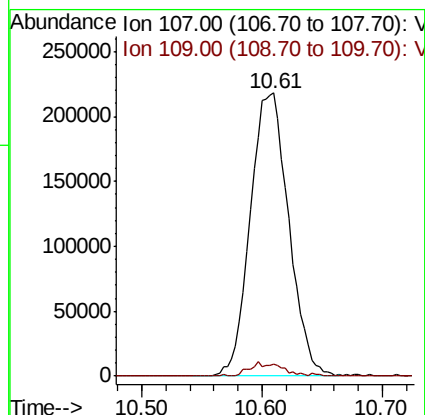
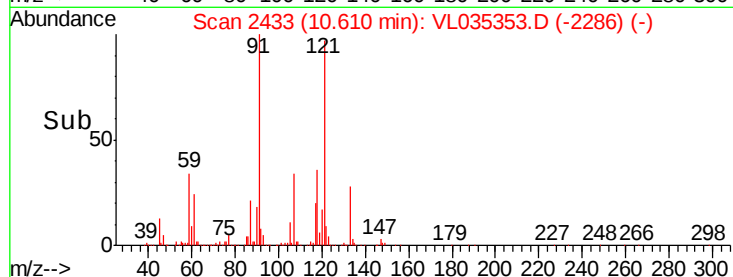
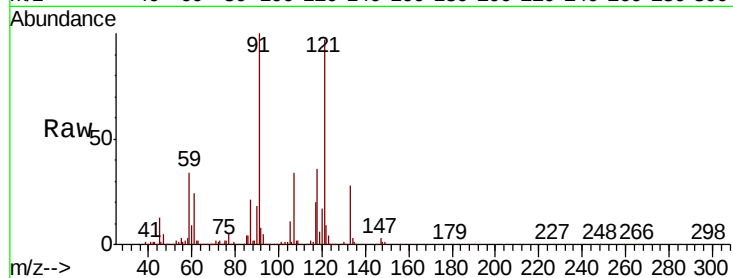
Ion Ratio Lower Upper

107 100

109 4.4 76.8 115.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

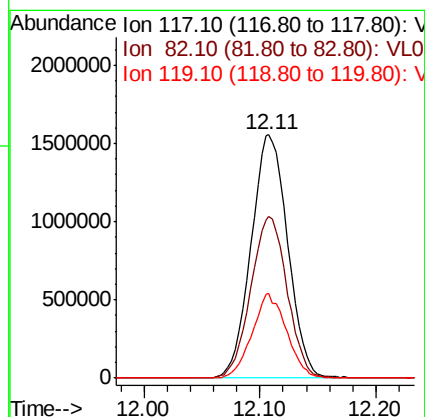
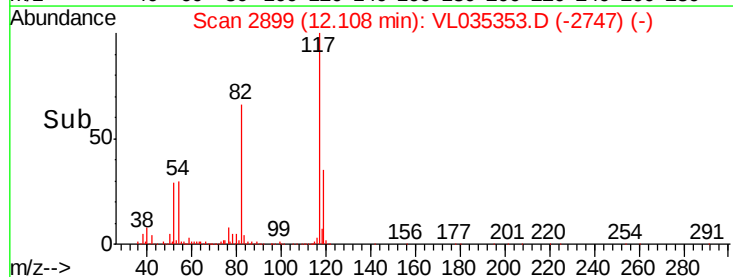
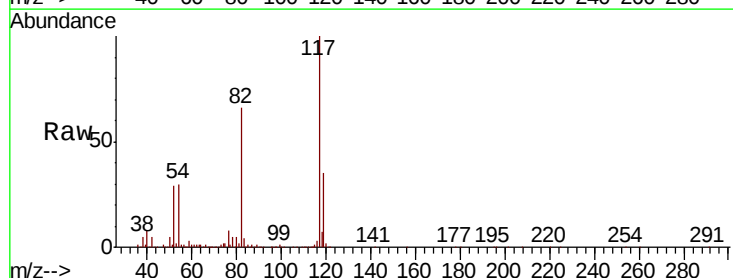
Tgt Ion:117 Resp: 3421470

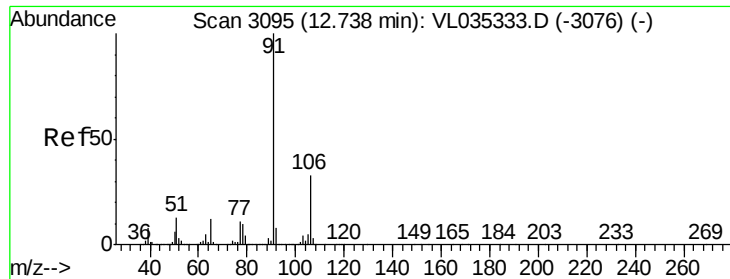
Ion Ratio Lower Upper

117 100

82 66.6 51.0 76.4

119 32.9 24.7 37.1





#58

Ethyl Benzene

Concen: 0.204 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion: 91 Resp: 72805

Ion Ratio Lower Upper

91 100

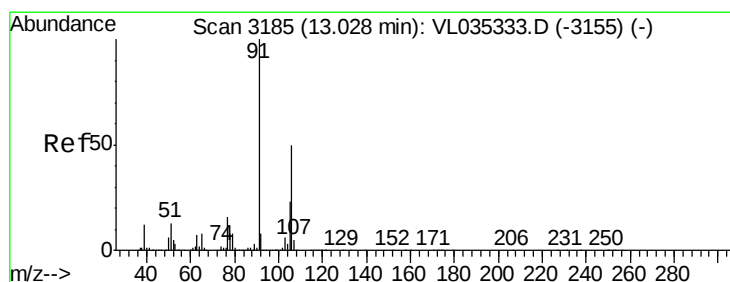
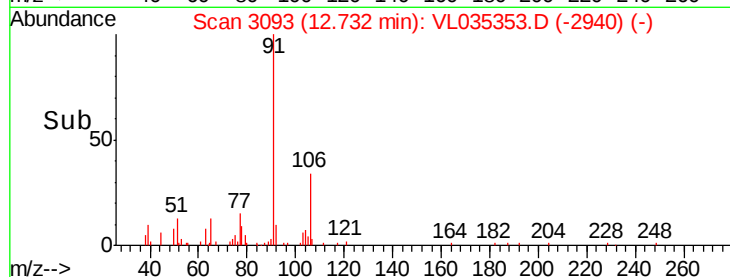
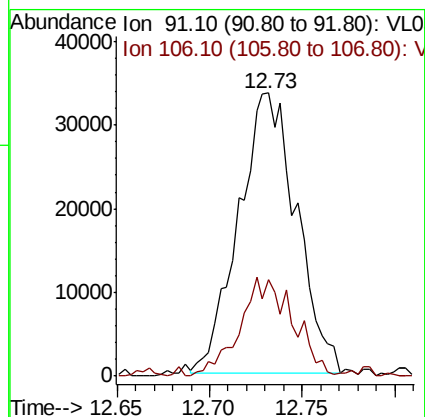
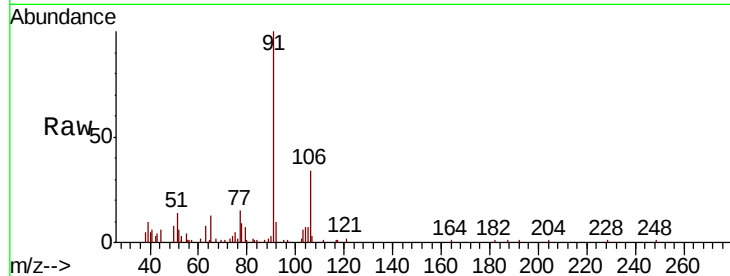
106 34.6 26.8 40.2

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#59

m/p-Xylene

Concen: 0.700 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. -0.04 min

Lab File: VL035353.D

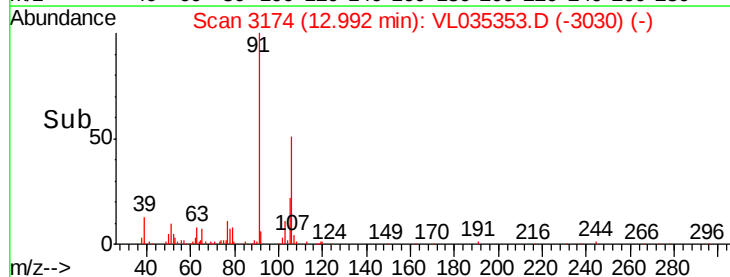
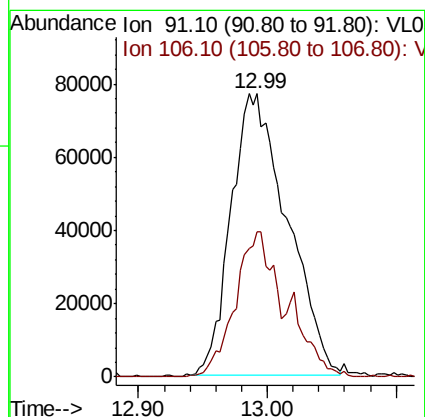
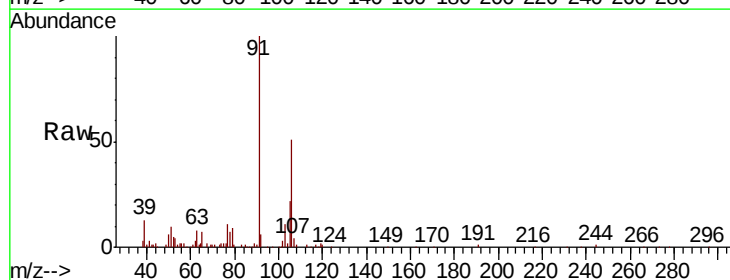
Acq: 6 Aug 2020 17:11

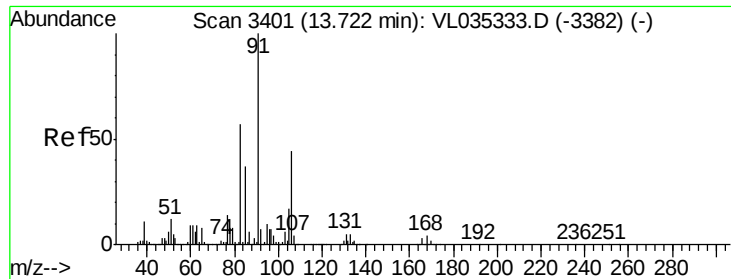
Tgt Ion: 91 Resp: 232013

Ion Ratio Lower Upper

91 100

106 46.5 37.8 56.8





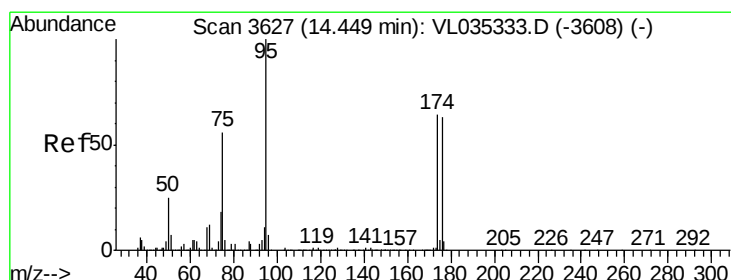
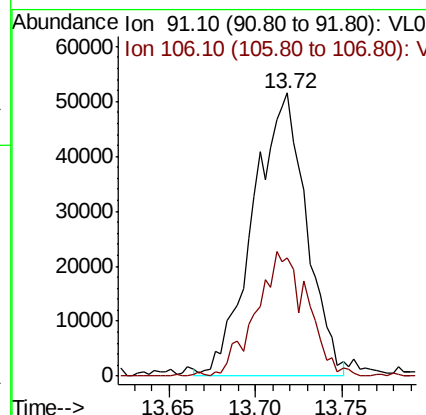
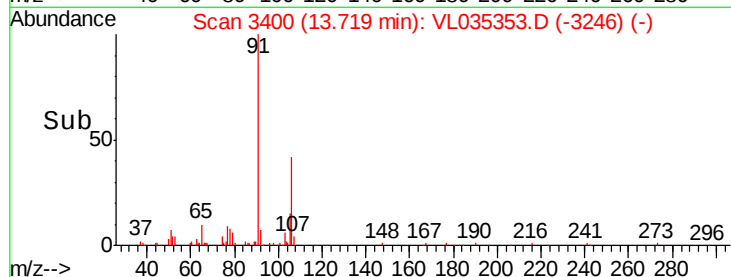
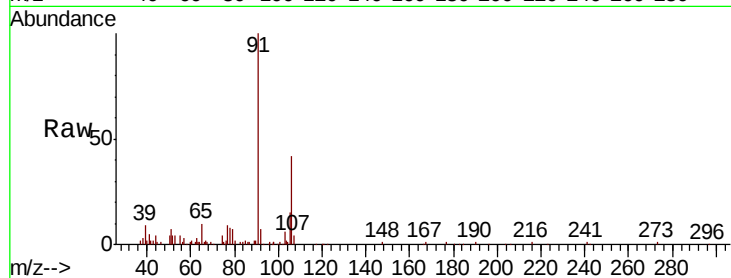
#60
o-Xylene
Concen: 0.336 ppbv m
RT: 13.72 min Scan# 3400
Delta R.T. -0.00 min
Lab File: VL035353.D
Acq: 6 Aug 2020 17:11

Instrument :
MSVOA_L
ClientSampleId :
4-UNDER-GROUND

Tot Ion: 91 Resp: 110572
Ion Ratio Lower Upper
91 100
106 42.5 22.7 68.0

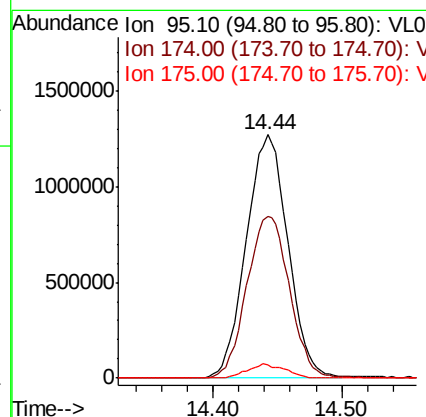
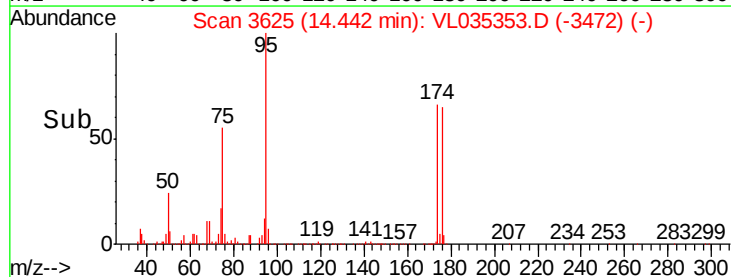
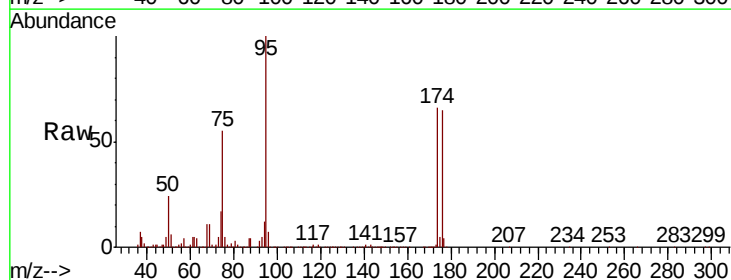
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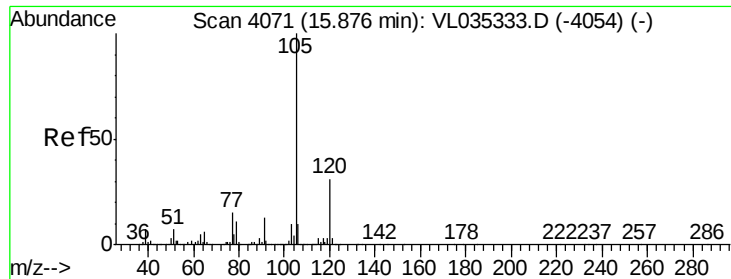
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.030 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.01 min
Lab File: VL035353.D
Acq: 6 Aug 2020 17:11

Tgt Ion: 95 Resp: 2861872
Ion Ratio Lower Upper
95 100
174 68.5 53.5 80.3
175 5.3 4.2 6.2





#72

4-Ethyltoluene

Concen: 0.214 ppbv m

RT: 15.87 min Scan# 4069

Delta R.T. -0.01 min

Lab File: VL035333.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

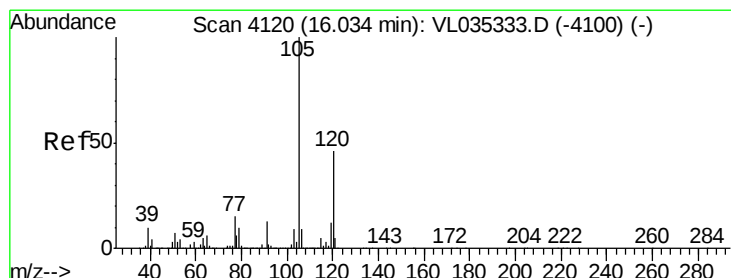
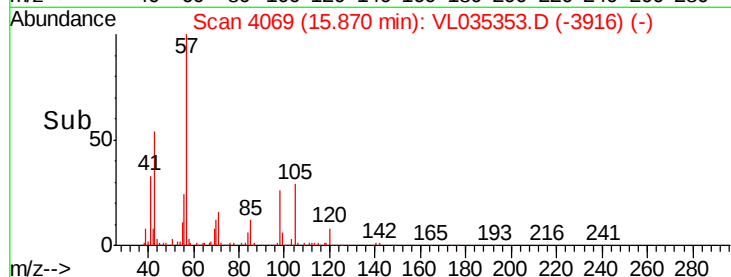
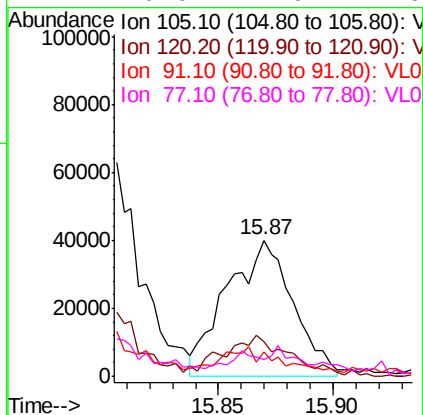
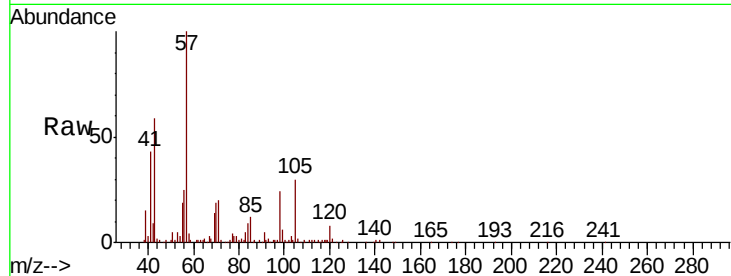
ClientSampleId :

4-UNDER-GROUND

Tot Ion:	105	Resp:	80296
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.0	36.0#
91	0.0	10.8	16.2#
77	0.0	11.9	17.9#

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#73

1,3,5-Trimethylbenzene

Concen: 0.213 ppbv m

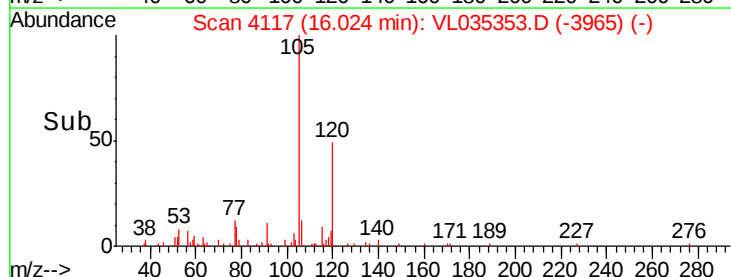
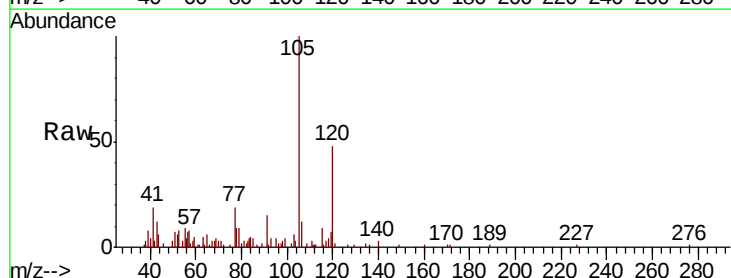
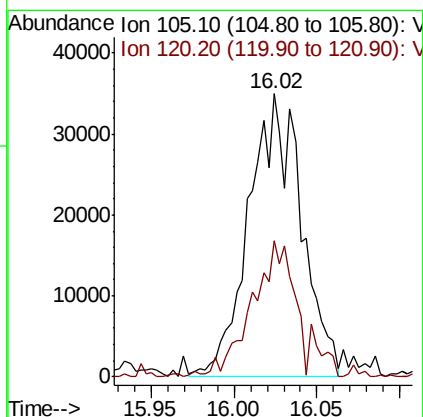
RT: 16.02 min Scan# 4117

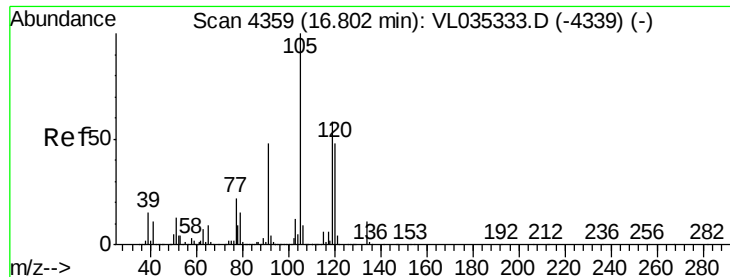
Delta R.T. -0.01 min

Lab File: VL035333.D

Acq: 6 Aug 2020 17:11

Tgt Ion:	105	Resp:	76710
Ion Ratio	Lower	Upper	
105	100		
120	47.9	36.9	55.3





#74

1,2,4-Trimethylbenzene

Concen: 0.691 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. -0.01 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

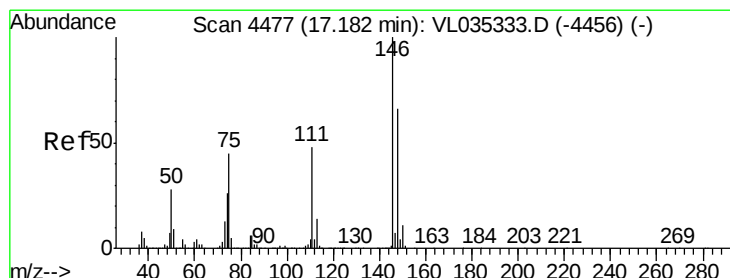
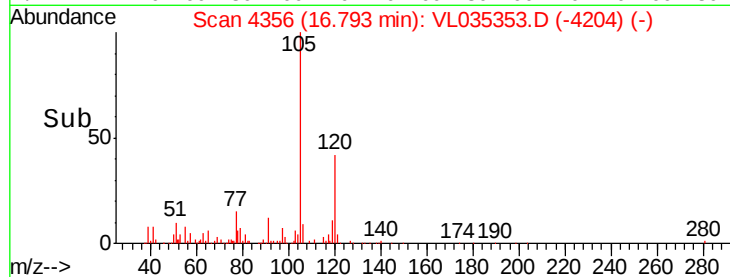
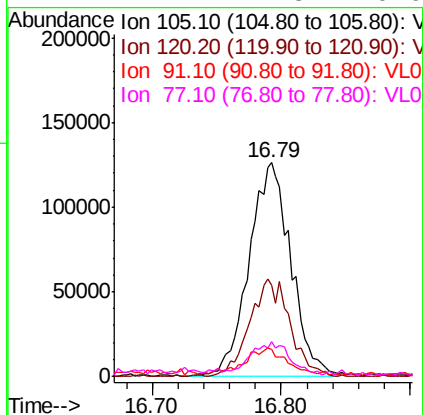
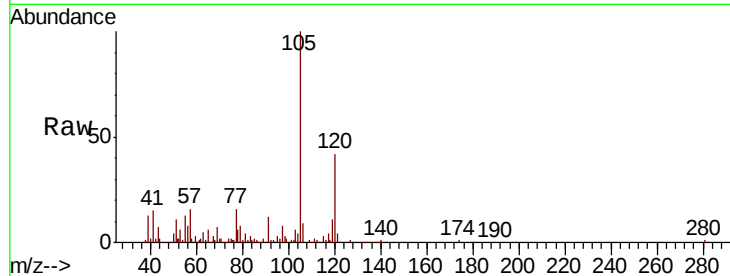
ClientSampleId :

4-UNDER-GROUND

Tot Ion:	105	Resp:	284375
Ion Ratio		Lower	Upper
105	100		
120	42.1	38.5	57.7
91	11.7	39.0	58.6#
77	14.4	17.8	26.6#

Manual Integrations
APPROVED

MMDadoda
8/10/2020 10:43:20 AM



#76

1,4-Dichlorobenzene

Concen: 0.160 ppbv m

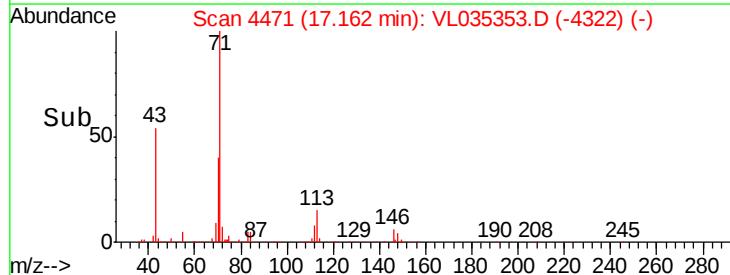
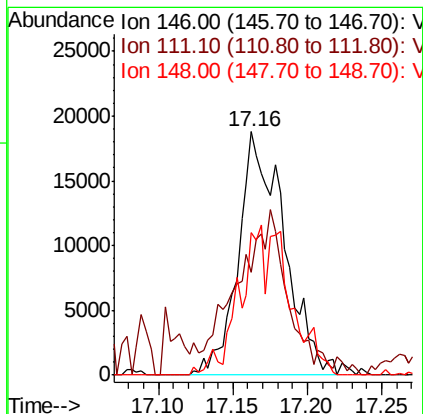
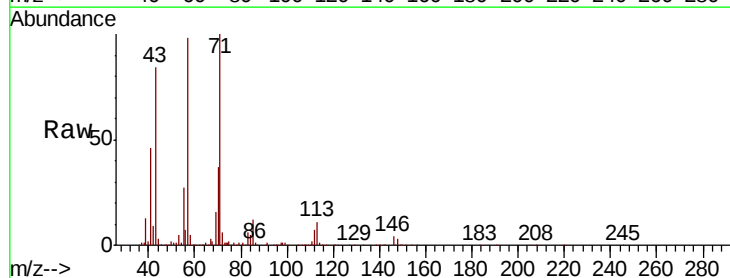
RT: 17.16 min Scan# 4471

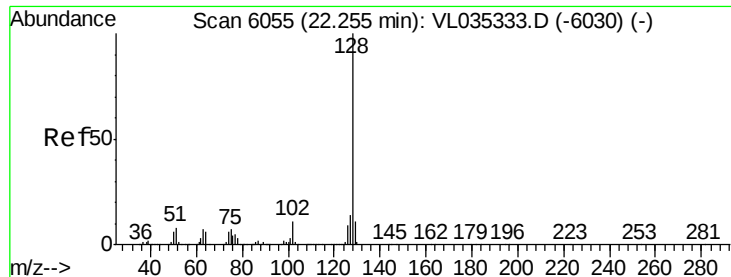
Delta R.T. -0.02 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Tgt Ion:	146	Resp:	39947
Ion Ratio		Lower	Upper
146	100		
111	0.0	23.3	69.9#
148	0.0	32.1	96.5#





#79

Naphthalene

Concen: 0.359 ppbv m

RT: 22.25 min Scan# 6054

Delta R.T. -0.00 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Instrument :

MSVOA_L

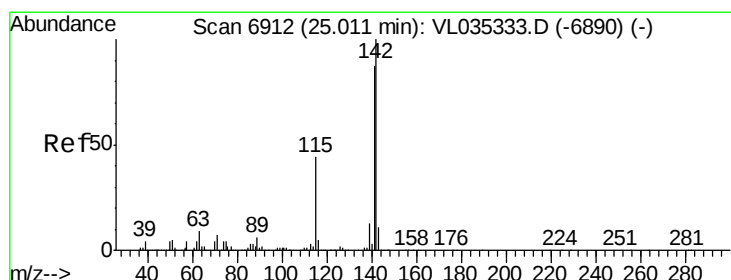
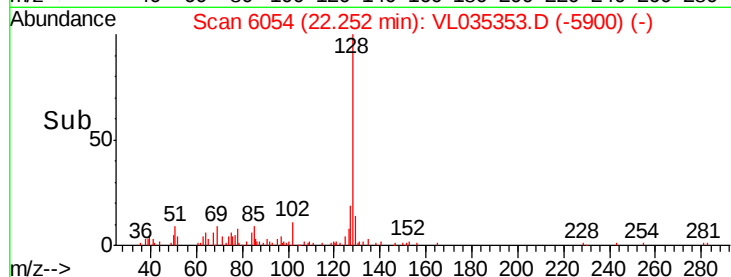
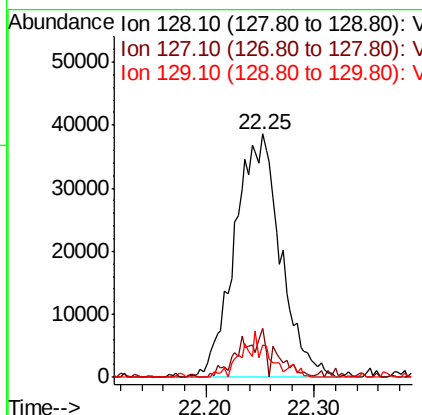
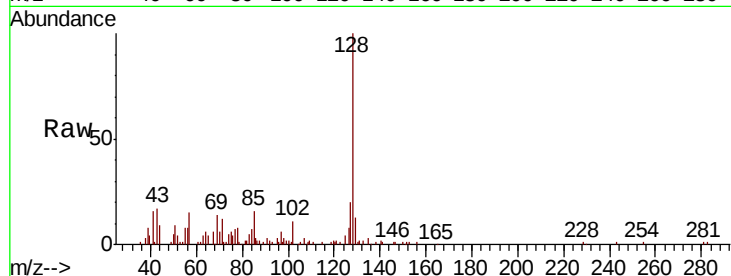
ClientSampleId :

4-UNDER-GROUND

Tot Ion:	128	Resp:	113569
Ion Ratio	Lower	Upper	
128	100		
127	20.3	11.1	16.7#
129	13.5	8.7	13.1#

Manual Integrations
APPROVED

MMDadoda
8/10/2020 10:43:20 AM



#80

Naphthalene, 2-methyl-

Concen: 0.185 ppbv

RT: 25.00 min Scan# 6910

Delta R.T. -0.01 min

Lab File: VL035353.D

Acq: 6 Aug 2020 17:11

Tgt Ion:	142	Resp:	13289
Ion Ratio	Lower	Upper	
142	100		
141	90.3	69.0	103.6
115	62.6	35.5	53.3#

