

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037202.D
 Acq On : 17 Jun 2021 15:23
 Operator : SY/AP
 Sample : M2721-03DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1DL

Manual Integrations
 APPROVED

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 6/21/2021 12:54:01 PM

Quant Time: Jun 19 17:17:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 17 15:23:20 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1466525	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4386239	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3897689	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2997058	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	32568	0.128	ppbv	93
4) Chloromethane	3.14	50	16794m	0.177	ppbv	
13) Ethanol	3.61	45	818023	57.997	ppbv	50
15) Acetone	3.85	43	1104270m	6.677	ppbv	
17) tert-Butyl alcohol	4.31	59	176515m	1.155	ppbv	
19) Isopropyl Alcohol	3.98	45	170792	1.705	ppbv #	1
20) Methylene Chloride	4.35	84	388389	3.923	ppbv	98
25) Ethyl Acetate	5.68	43	1403542	3.920	ppbv	98
26) Hexane	5.69	57	731631m	4.043	ppbv	
30) Cyclohexane	7.14	84	90123m	0.598	ppbv	
34) 2-Butanone	5.25	43	189612	1.112	ppbv	92
53) Toluene	9.80	91	216887m	0.512	ppbv	
58) Ethyl Benzene	12.71	91	84954m	0.158	ppbv	
59) m/p-Xylene	12.97	91	277259m	0.610	ppbv	
60) o-Xylene	13.70	91	125023	0.289	ppbv	99
61) Styrene	13.53	104	1524598	6.823	ppbv	96
72) 4-Ethyltoluene	15.85	105	73923m	0.150	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	82696	0.174	ppbv	96
74) 1,2,4-Trimethylbenzene	16.77	105	234432	0.479	ppbv #	73

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

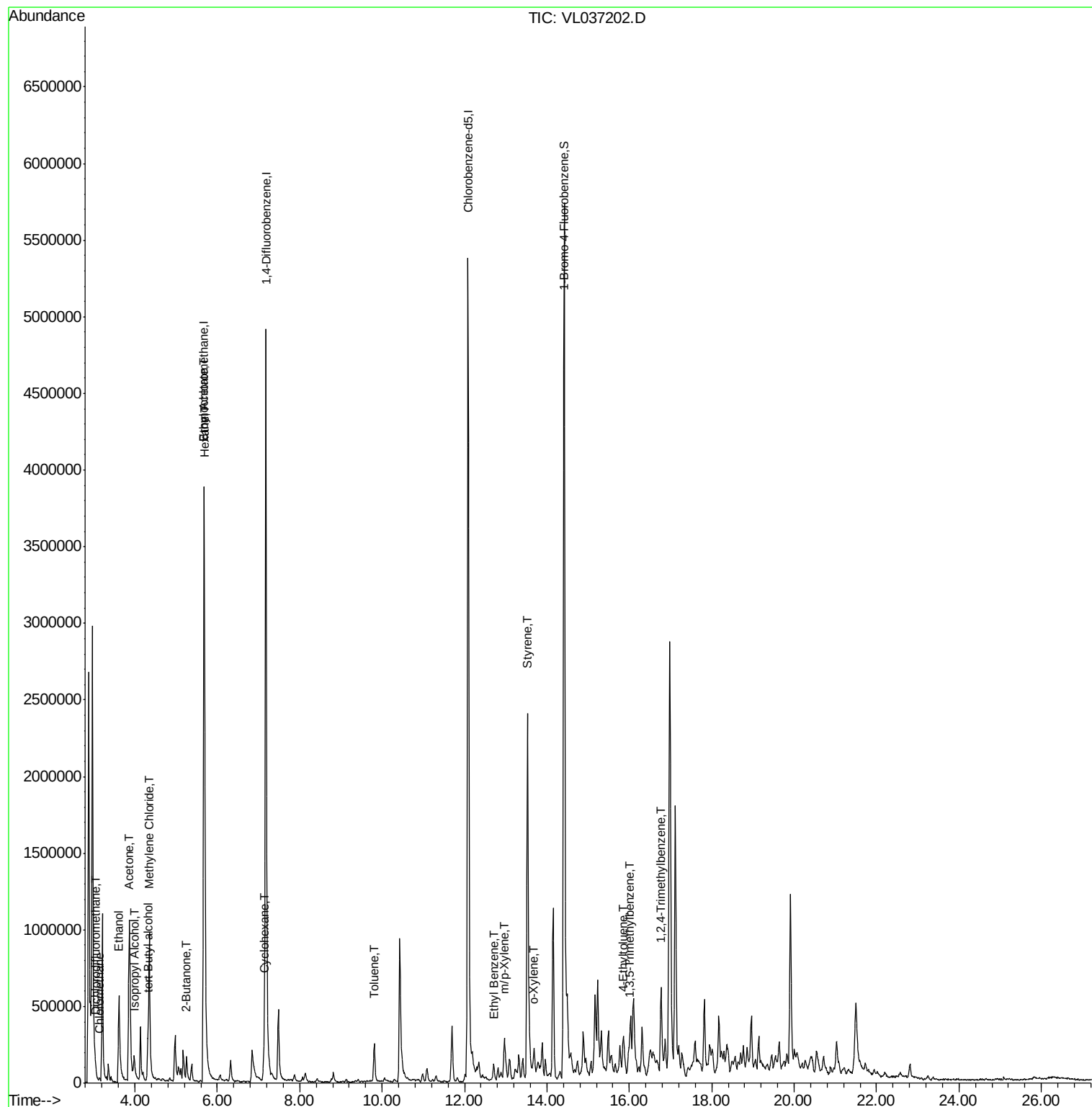
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037202.D
Acq On : 17 Jun 2021 15:23
Operator : SY/AP
Sample : M2721-03DL 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

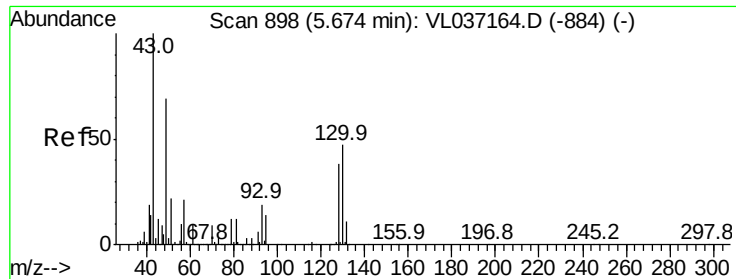
Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1DL

Manual Integrations
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Quant Time: Jun 19 17:17:20 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1DL

Tot Ion: 49 Resp: 1466525

Ion Ratio Lower Upper

49 100

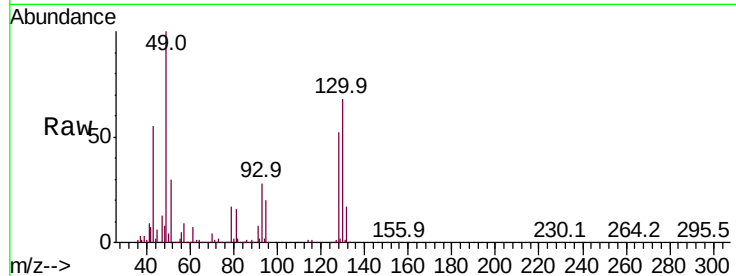
128 56.9 29.3 88.0

130 73.2 35.9 107.8

Manual Integrations
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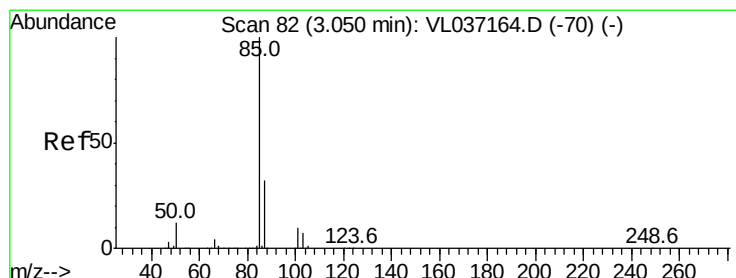
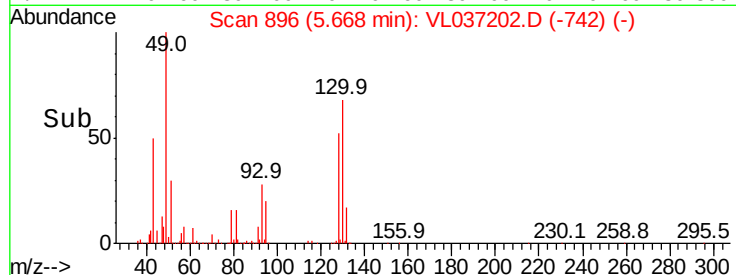
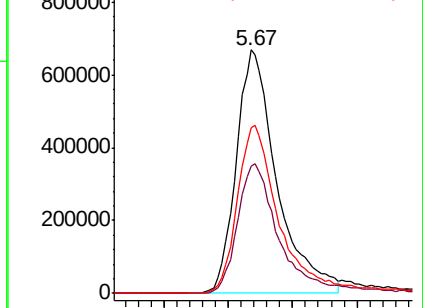
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.128 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037202.D

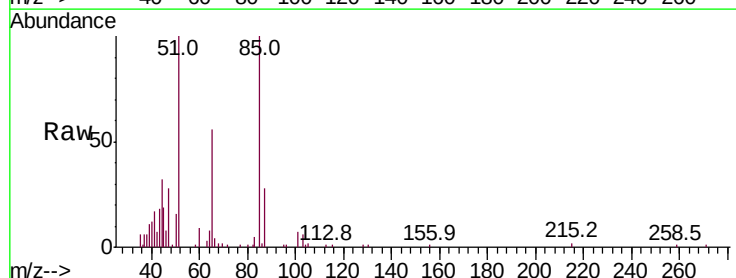
Acq: 17 Jun 2021 15:23

Tgt Ion: 85 Resp: 32568

Ion Ratio Lower Upper

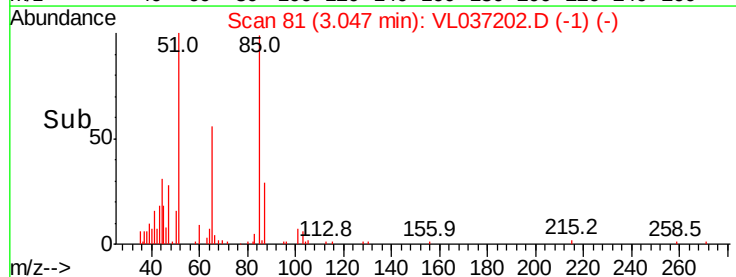
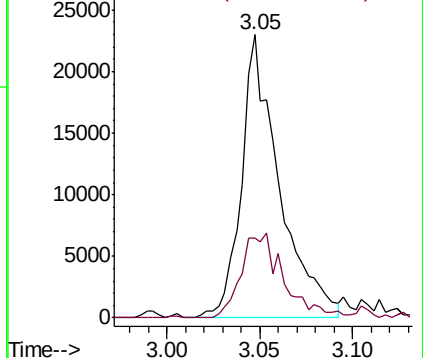
85 100

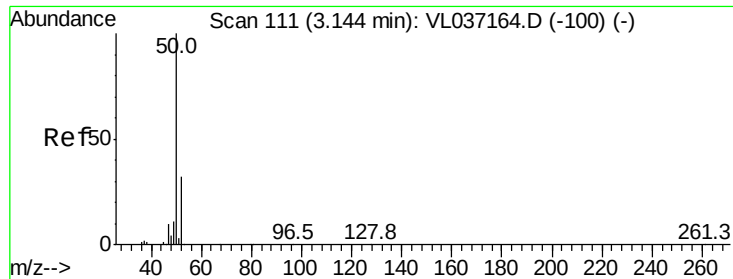
87 28.4 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.177 ppbv m

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1DL

Tot Ion: 50 Resp: 16794

Ion Ratio Lower Upper

50 100

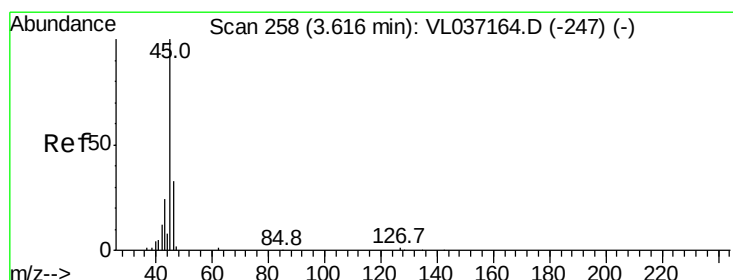
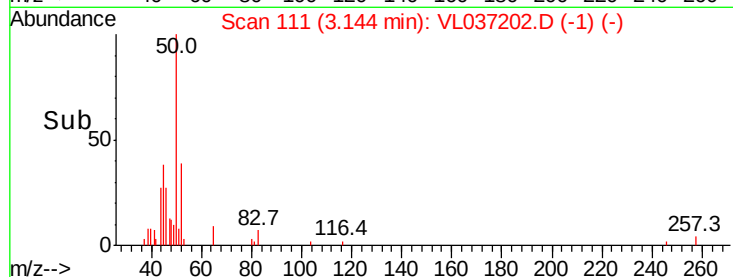
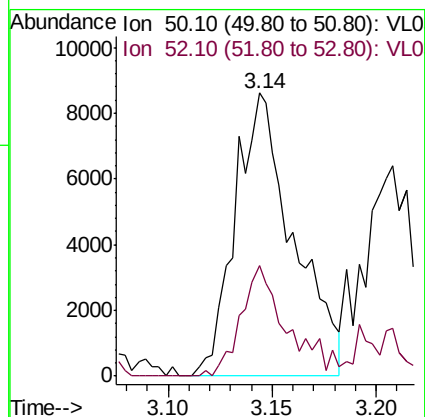
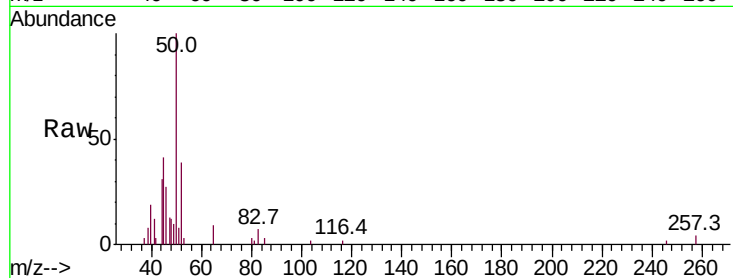
52 39.2 25.8 38.8#

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#13

Ethanol

Concen: 57.997 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.01 min

Lab File: VL037202.D

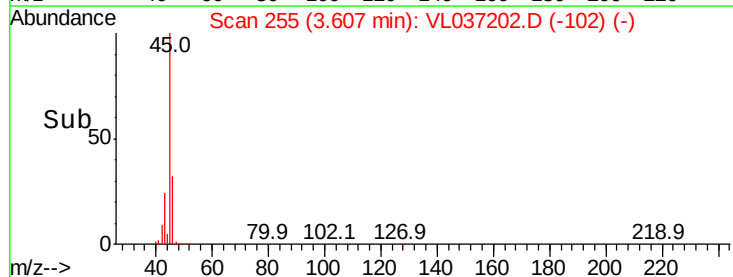
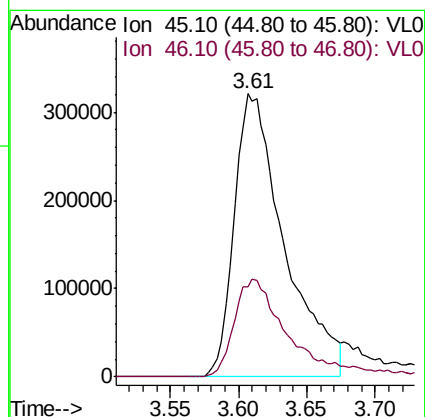
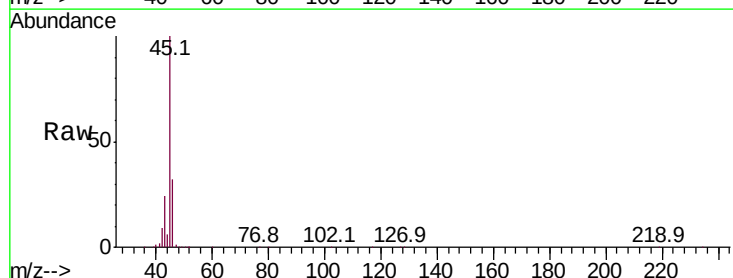
Acq: 17 Jun 2021 15:23

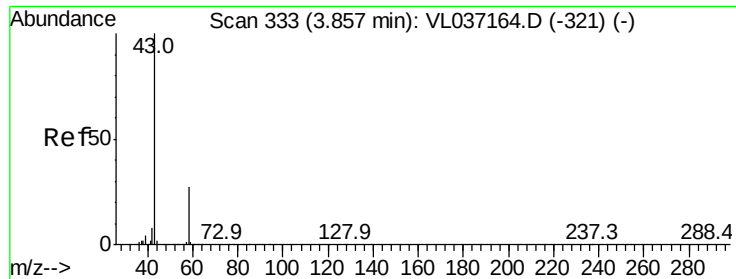
Tgt Ion: 45 Resp: 818023

Ion Ratio Lower Upper

45 100

46 39.7 34.2 137.0





#15

Acetone

Concen: 6.677 ppbv m

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1DL

Tot Ion: 43 Resp: 1104270

Ion Ratio Lower Upper

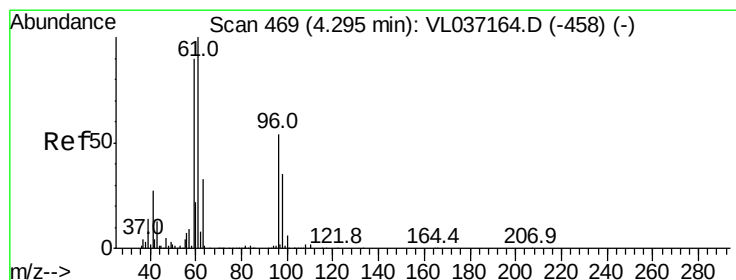
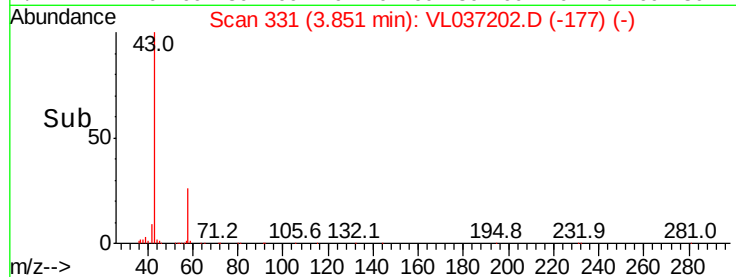
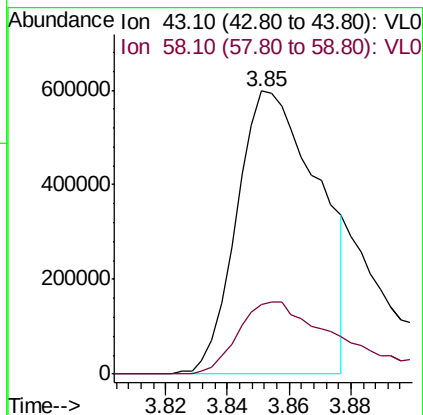
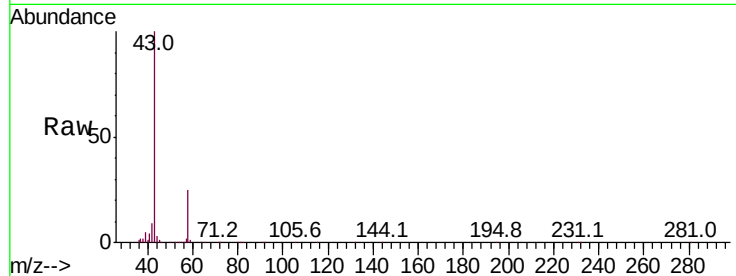
43 100

58 35.2 23.7 35.5

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 1.155 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. 0.02 min

Lab File: VL037202.D

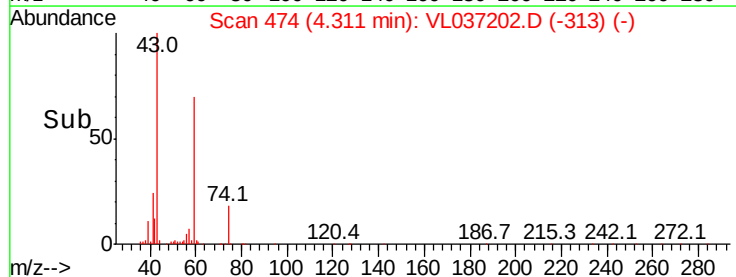
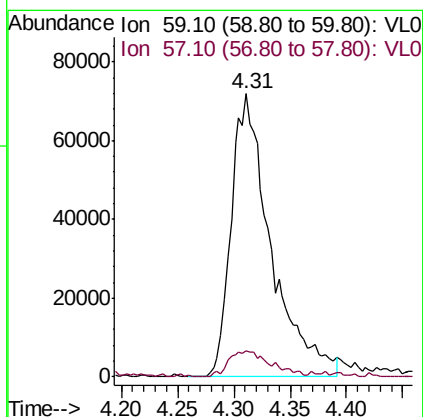
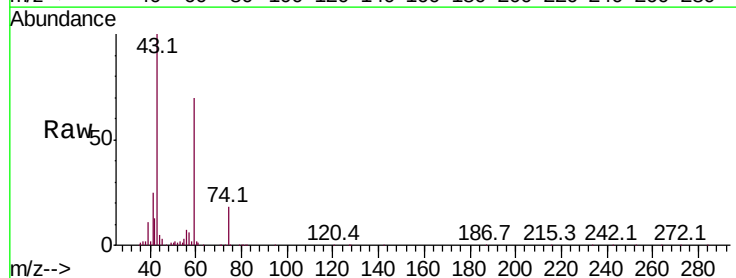
Acq: 17 Jun 2021 15:23

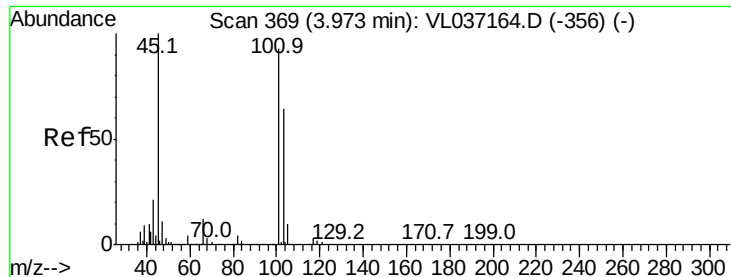
Tgt Ion: 59 Resp: 176515

Ion Ratio Lower Upper

59 100

57 11.4 8.8 13.2





#19

Isopropyl Alcohol

Concen: 1.705 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1DL

Tot Ion: 45 Resp: 170792

Ion Ratio Lower Upper

45 100

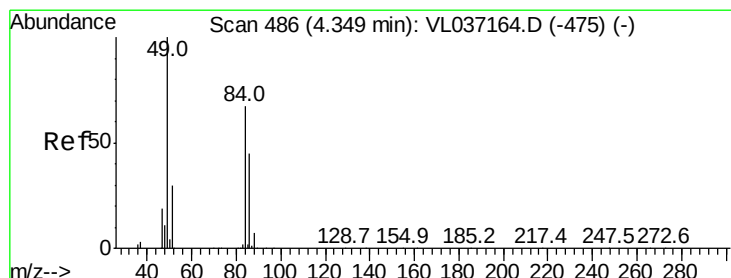
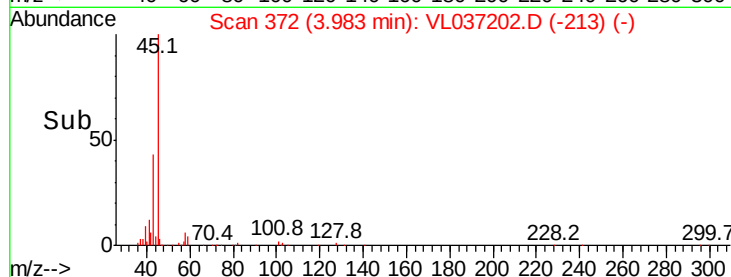
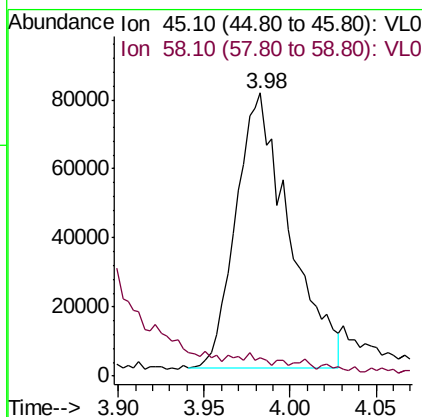
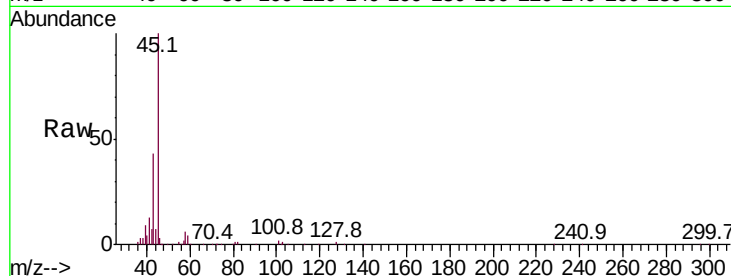
58 227.3 2.4 3.6#

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#20

Methylene Chloride

Concen: 3.923 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.00 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

Tgt Ion: 84 Resp: 388389

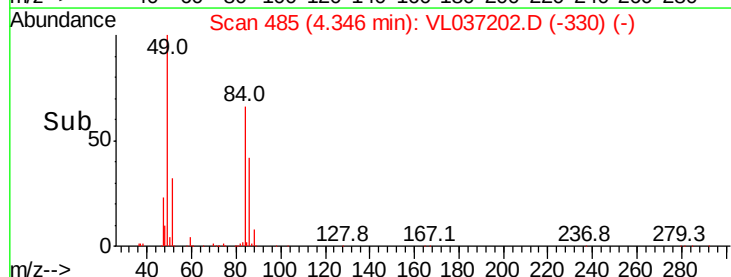
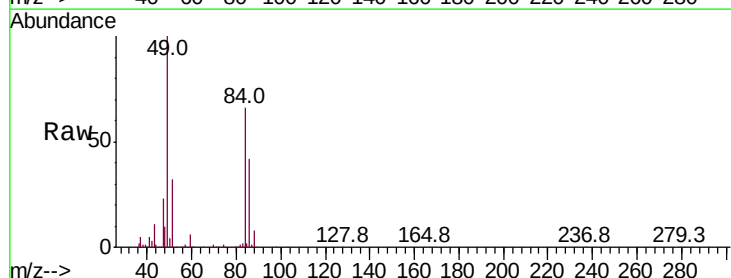
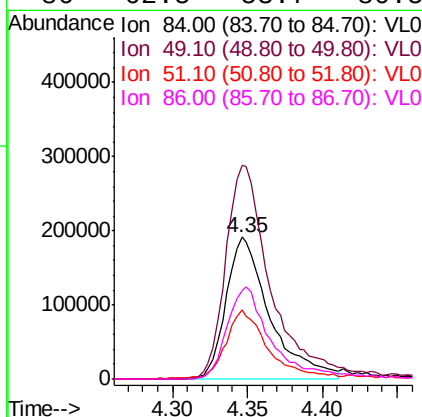
Ion Ratio Lower Upper

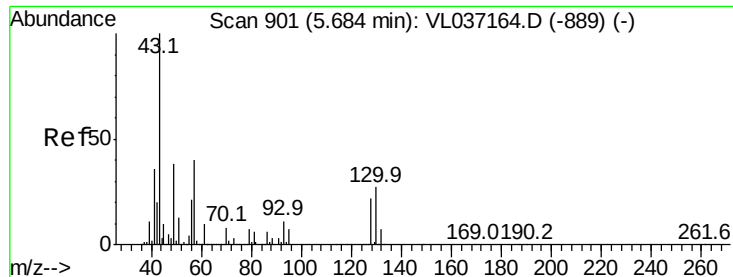
84 100

49 149.8 119.7 179.5

51 47.6 36.1 54.1

86 62.5 53.7 80.5





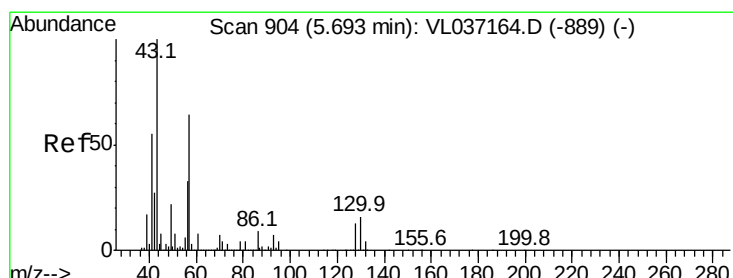
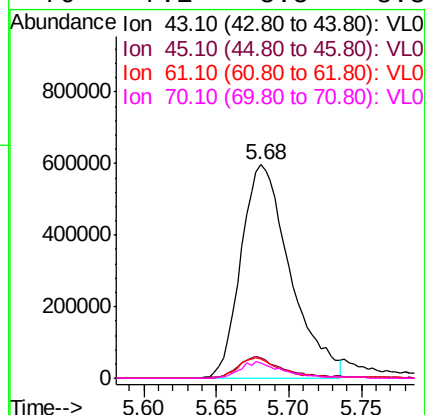
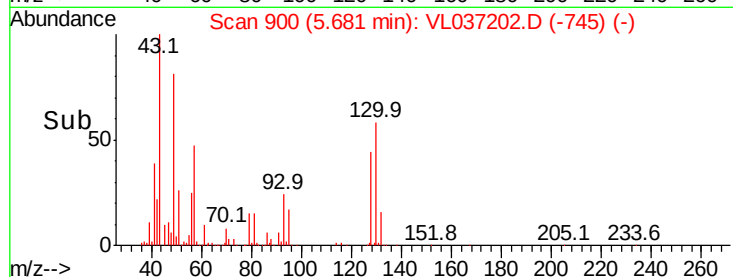
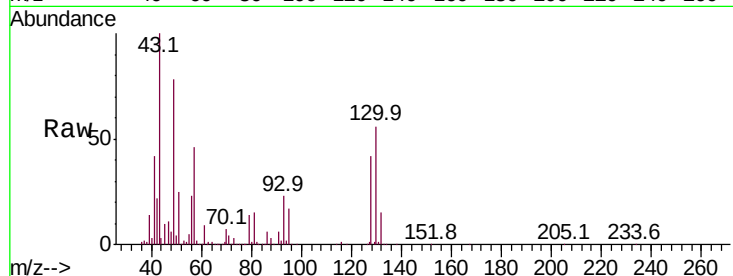
#25
Ethyl Acetate
Concen: 3.920 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037202.D
Acq: 17 Jun 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1DL

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.0	8.0	12.0	
61	8.6	8.1	12.1	
70	7.1	5.5	8.3	

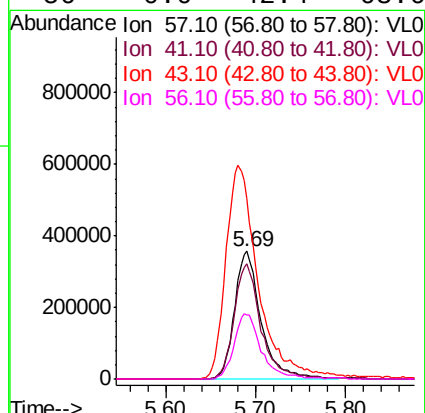
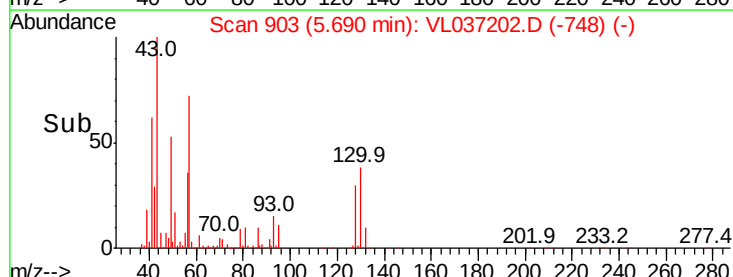
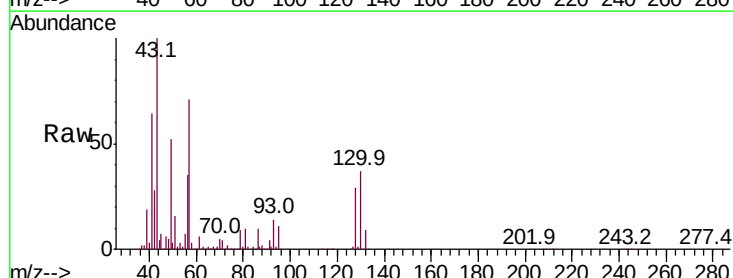
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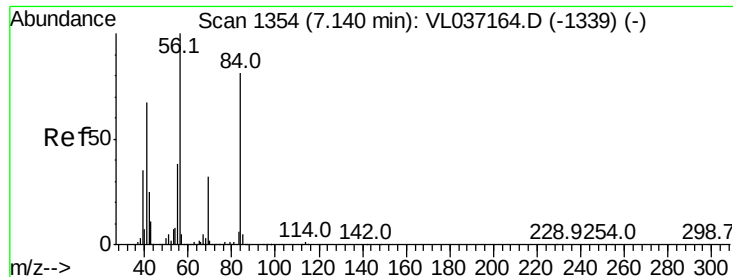
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#26
Hexane
Concen: 4.043 ppbv m
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL037202.D
Acq: 17 Jun 2021 15:23

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	0.0	73.5	110.3#	
43	0.0	170.7	256.1#	
56	0.0	42.4	63.6#	





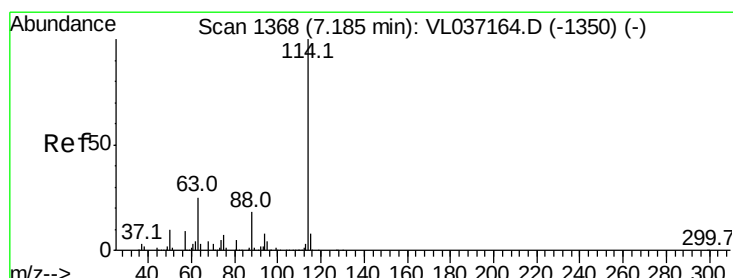
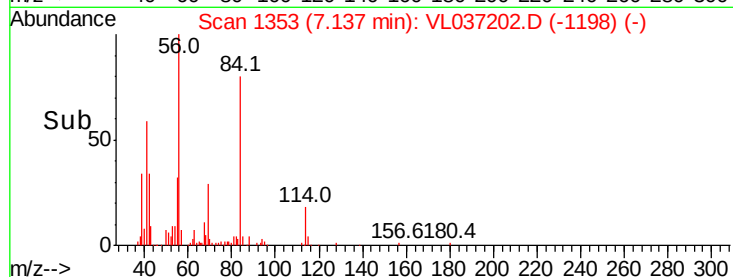
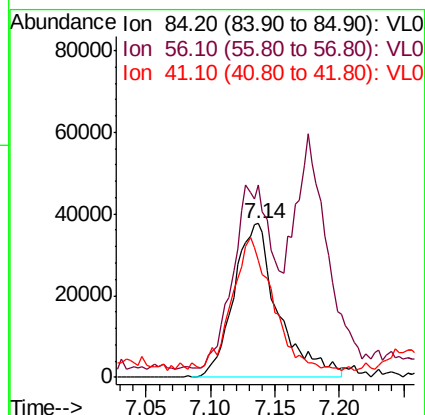
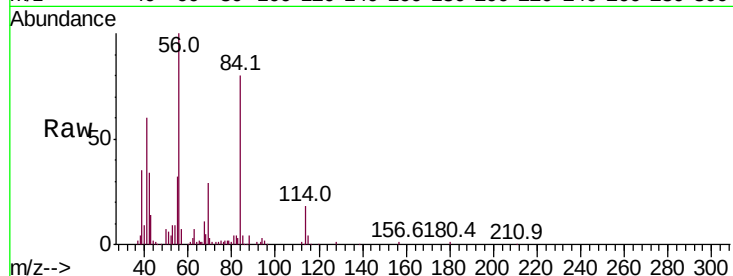
#30
Cyclohexane
Concen: 0.598 ppbv m
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL037202.D
Acq: 17 Jun 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	103.2	107.7	161.5#
41	89.8	69.0	103.6

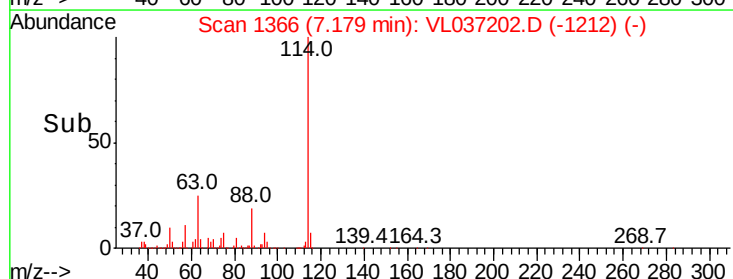
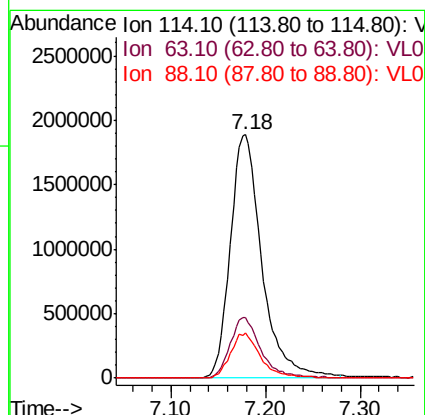
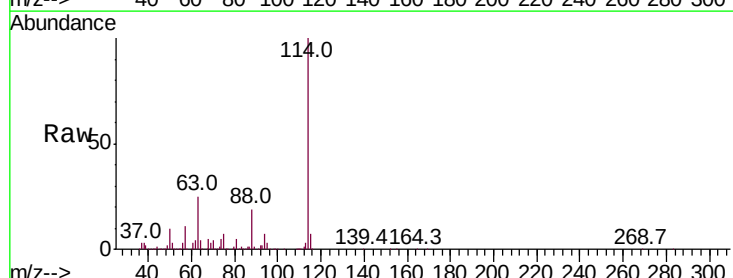
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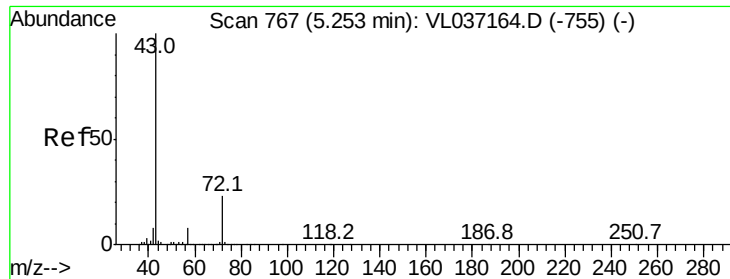
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL037202.D
Acq: 17 Jun 2021 15:23

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.6	29.4
88	18.1	14.2	21.2





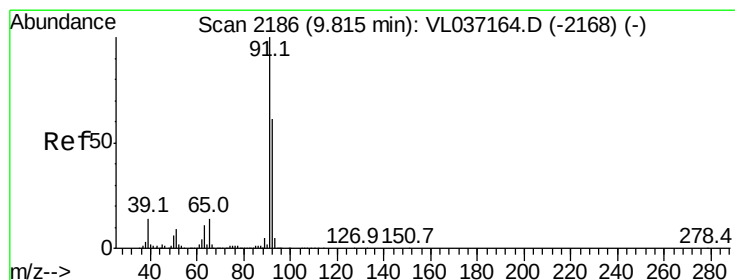
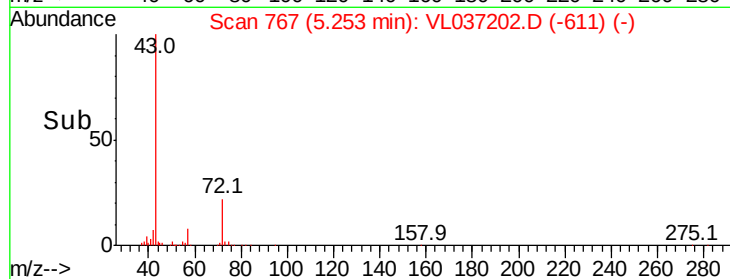
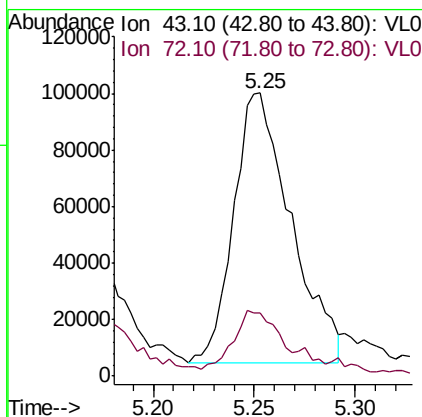
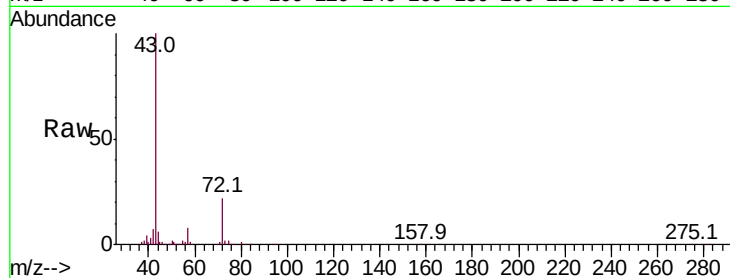
#34
 2-Butanone
 Concen: 1.112 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL037202.D
 Acq: 17 Jun 2021 15:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	27.4	18.9	28.3

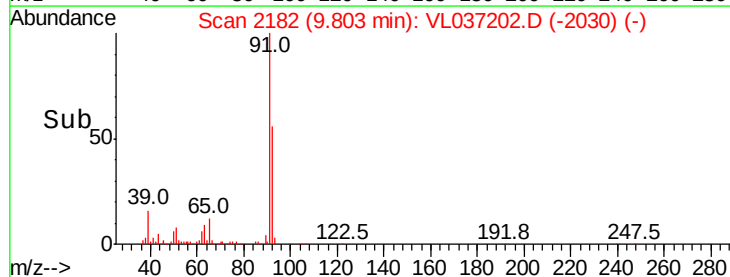
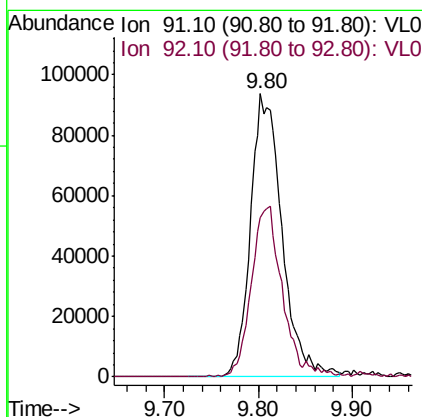
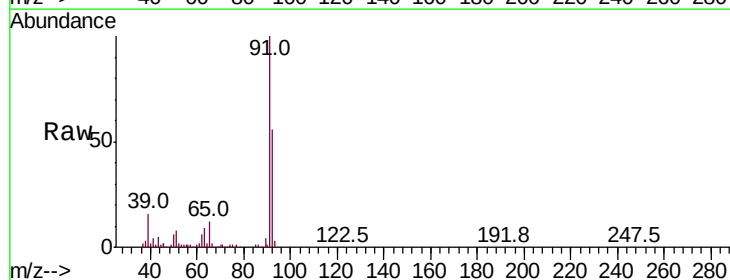
Manual Integrations
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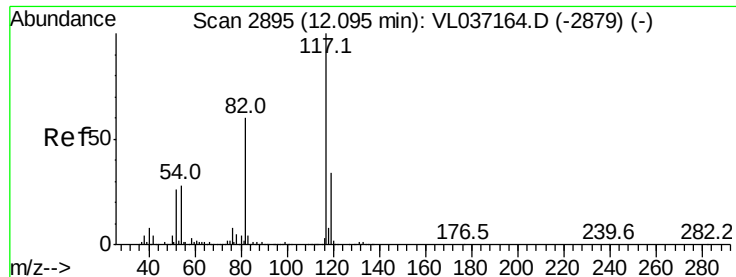
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#53
 Toluene
 Concen: 0.512 ppbv m
 RT: 9.80 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: VL037202.D
 Acq: 17 Jun 2021 15:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.3	72.5





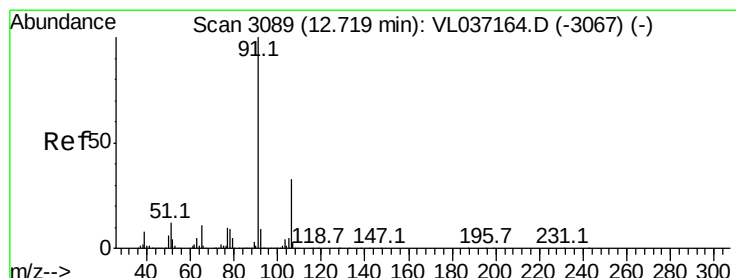
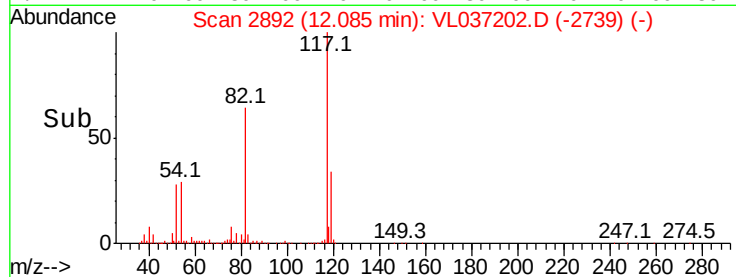
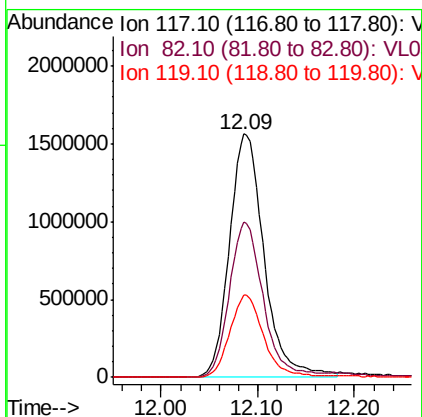
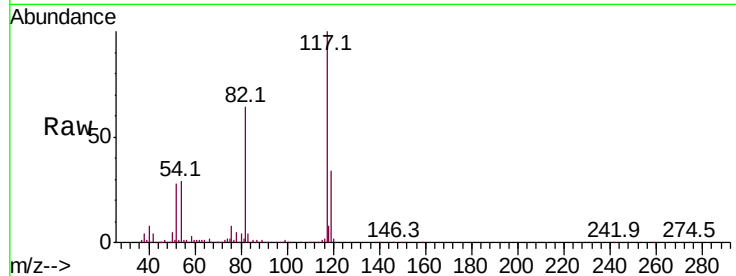
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037202.D
Acq: 17 Jun 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.5	51.7	77.5
119	33.8	47.6	71.4#

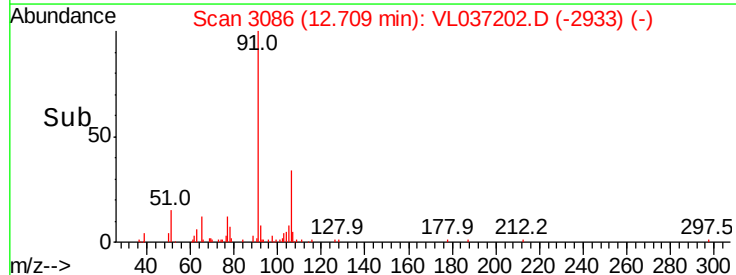
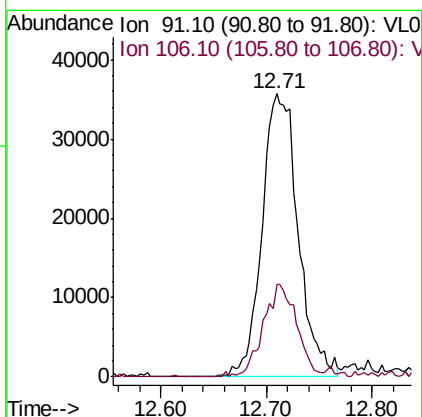
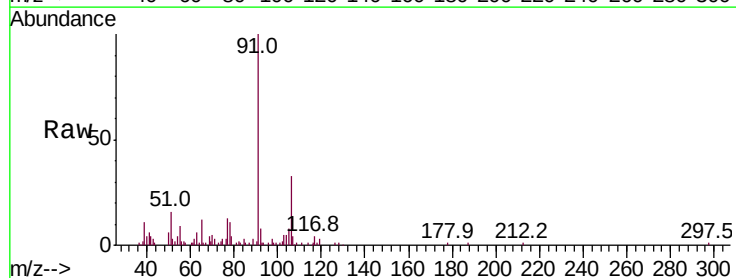
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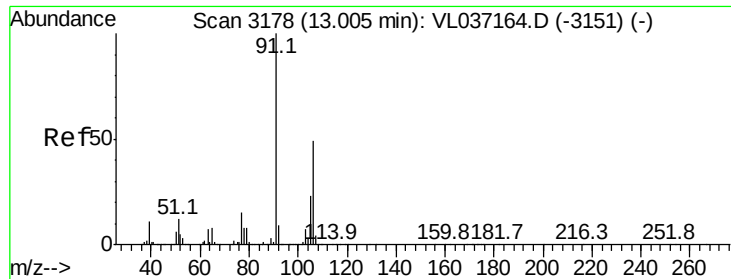
MMDadoda
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#58
Ethyl Benzene
Concen: 0.158 ppbv m
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL037202.D
Acq: 17 Jun 2021 15:23

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.0	26.3	39.5





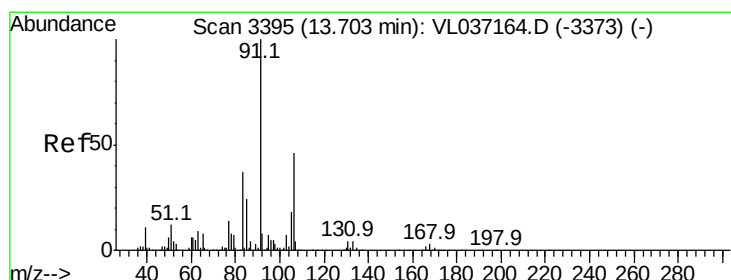
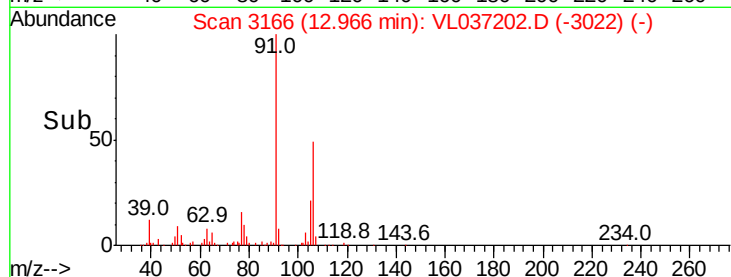
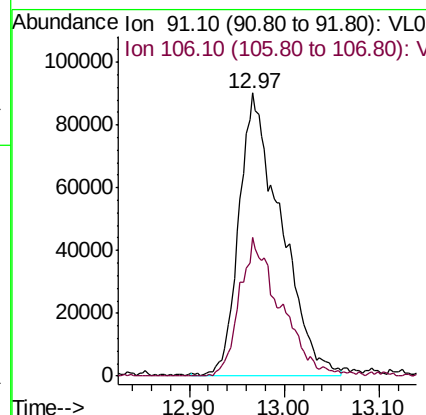
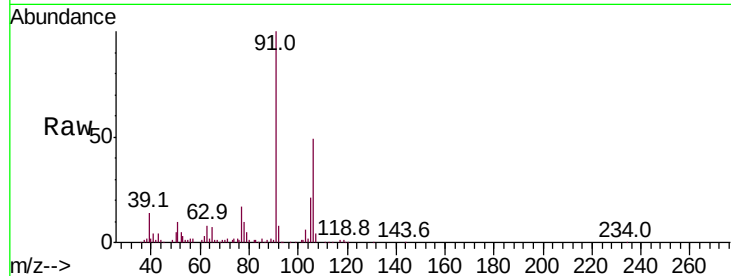
#59
m/p-Xylene
Concen: 0.610 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL037202.D
Acq: 17 Jun 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.0	55.4#

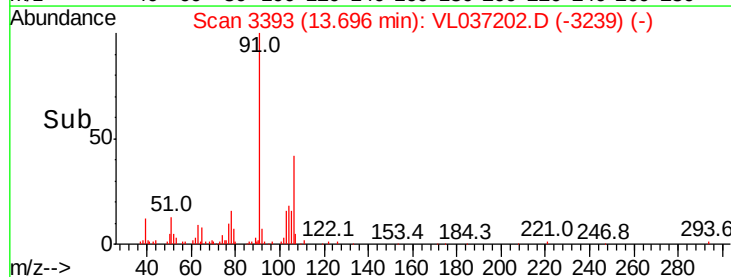
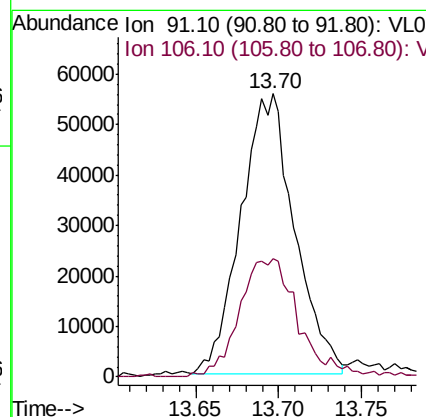
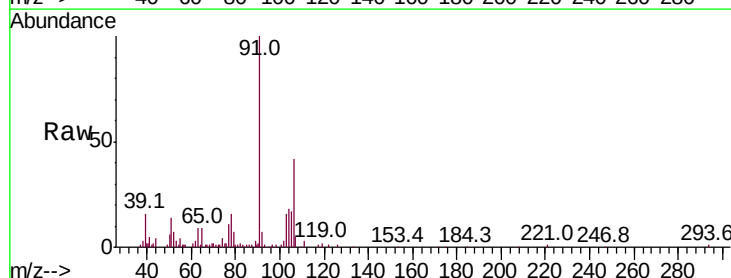
Manual Integrations
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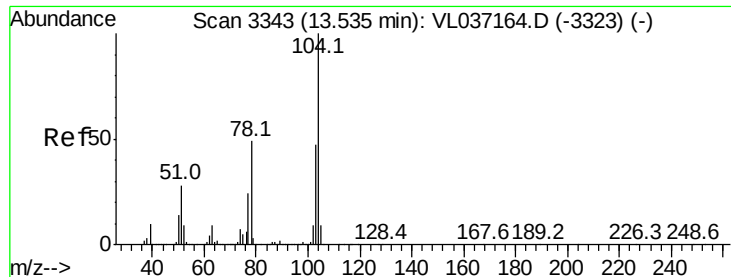
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#60
o-Xylene
Concen: 0.289 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL037202.D
Acq: 17 Jun 2021 15:23

Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.9	23.0	69.0





#61

Stvrene

Concen: 6.823 ppbv

RT: 13.53 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

Instrument :

MSVOA_L

ClientSampled :

IA-BEDROOM-1DL

Tot Ion:104 Resp: 1524598

Ion Ratio Lower Upper

104 100

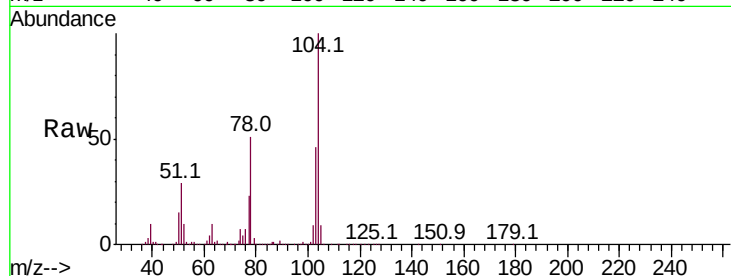
78 53.0 39.7 59.5

103 49.5 37.6 56.4

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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

800000

600000

400000

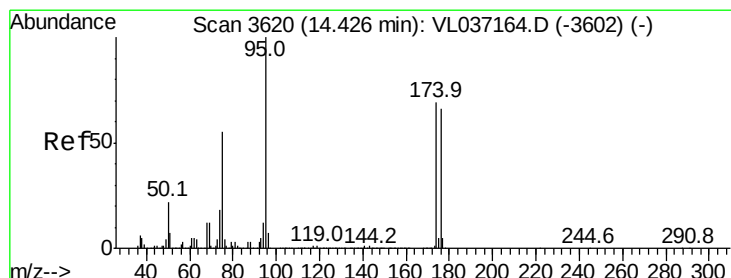
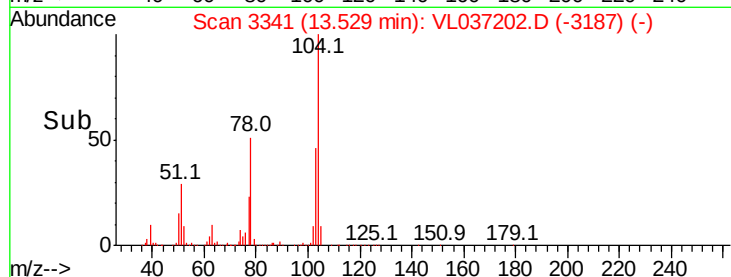
200000

0

13.53

13.50 13.60

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.147 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

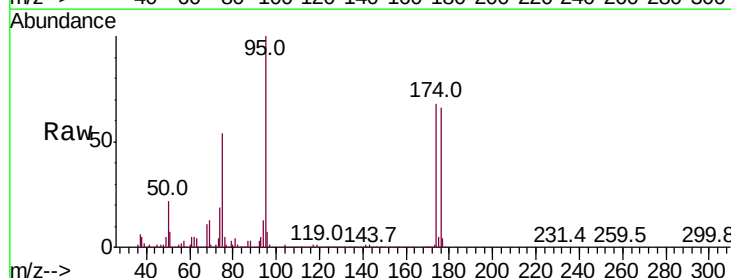
Tgt Ion: 95 Resp: 2997058

Ion Ratio Lower Upper

95 100

174 72.6 57.0 85.4

175 5.4 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1500000

1000000

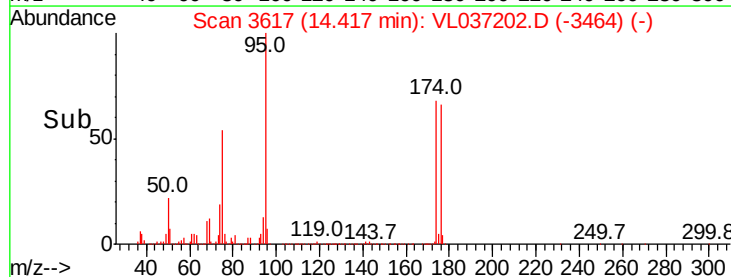
500000

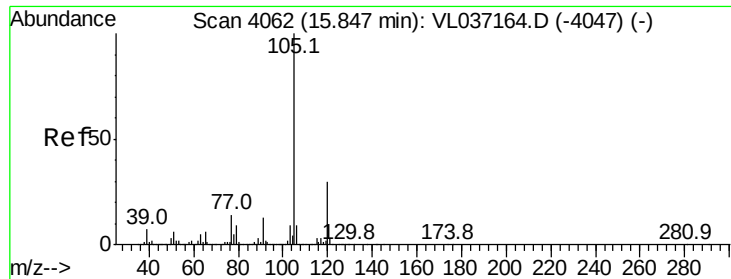
0

14.42

14.30 14.40 14.50

Time-->





#72

4-Ethyltoluene

Concen: 0.150 ppbv m

RT: 15.85 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

Instrument :

MSVOA_L

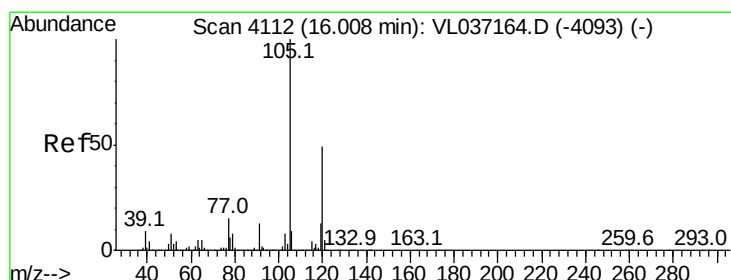
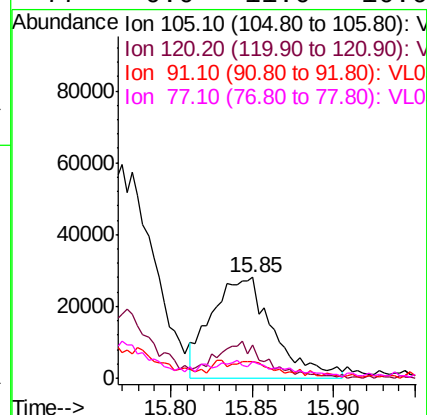
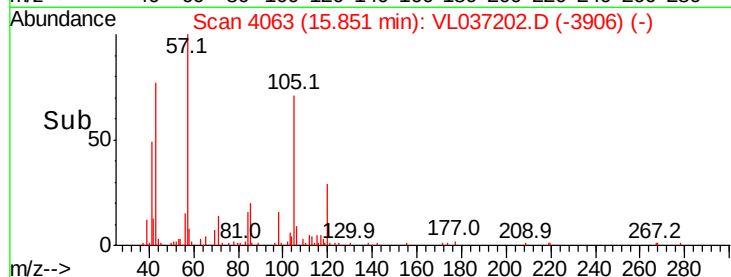
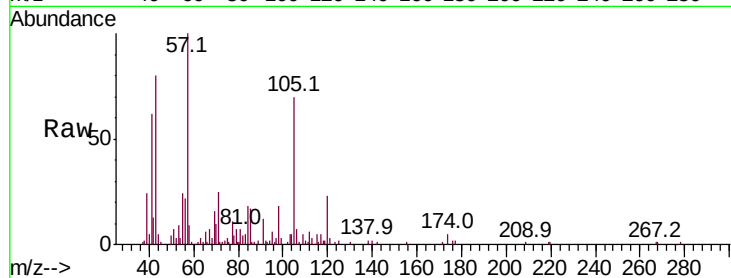
ClientSampleId :

IA-BEDROOM-1DL

Tot Ion:	105	Resp:	73923
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.7	37.1#
91	15.5	10.2	15.4#
77	0.0	11.0	16.6#

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#73

1,3,5-Trimethylbenzene

Concen: 0.174 ppbv

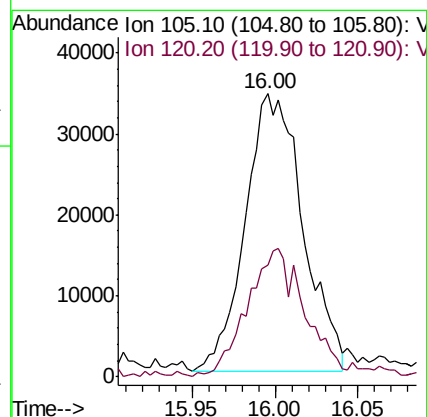
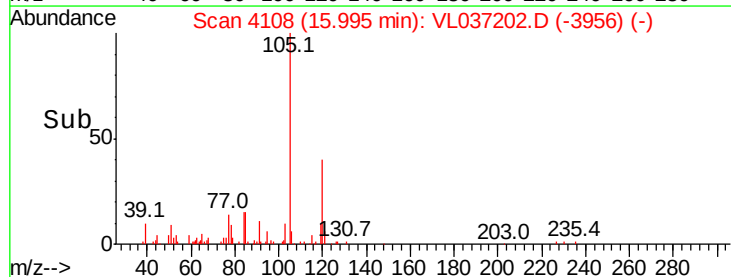
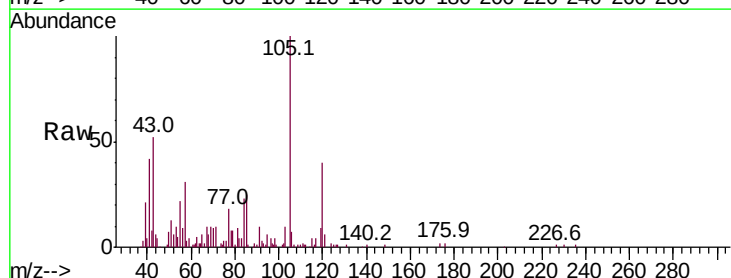
RT: 16.00 min Scan# 4108

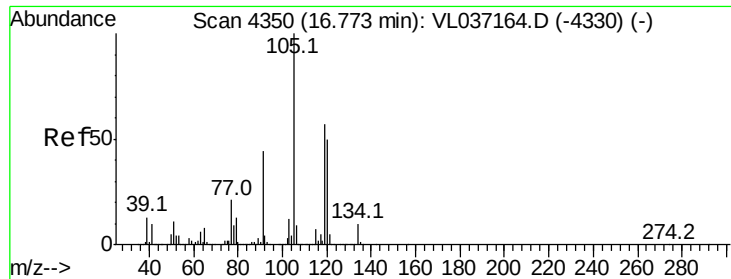
Delta R.T. -0.01 min

Lab File: VL037202.D

Acq: 17 Jun 2021 15:23

Tgt Ion:	105	Resp:	82696
Ion Ratio	Lower	Upper	
105	100		
120	46.5	39.4	59.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.479 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL037202.D
 Acq: 17 Jun 2021 15:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	42.5	39.8	59.8
91	12.6	37.0	55.4
77	14.7	17.0	25.4

Manual Integrations
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 6/21/2021 12:54:01 PM

