

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037372.D
 Acq On : 7 Aug 2021 9:58
 Operator : SY/AP
 Sample : M3121-06RE
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-2RE

Manual Integrations
 APPROVED

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 8/10/2021 6:10:59 PM

Quant Time: Aug 09 02:07:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 0
 QLast Update : Fri Aug 06 17:52:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	829412	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2711494	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2260959	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1533063	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	40823	0.217	ppbv	96
3) Chlorodifluoromethane	2.98	51	302844	1.831	ppbv #	91
4) Chloromethane	3.13	50	36093	0.638	ppbv	94
9) Propene	3.02	41	35080	0.632	ppbv	87
11) Trichlorofluoromethane	3.95	101	37803	0.235	ppbv #	83
13) Ethanol	3.61	45	192863m	18.837	ppbv	
15) Acetone	3.84	43	1033460	11.957	ppbv	100
19) Isopropyl Alcohol	3.98	45	164493m	3.144	ppbv	
20) Methylene Chloride	4.34	84	1531155	21.153	ppbv	99
26) Hexane	5.68	57	1022053	8.461	ppbv #	48
30) Cyclohexane	7.12	84	14898m	0.158	ppbv	
34) 2-Butanone	5.24	43	101117	1.111	ppbv #	86
35) Carbon Tetrachloride	7.01	117	10101m	0.060	ppbv	
36) Benzene	6.88	78	38450m	0.185	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	61949m	0.178	ppbv	
52) Tetrachloroethene	11.21	164	4365m	0.044	ppbv	
53) Toluene	9.79	91	337051	1.391	ppbv	98
59) m/p-Xylene	12.96	91	45322m	0.176	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	56772m	0.203	ppbv	

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

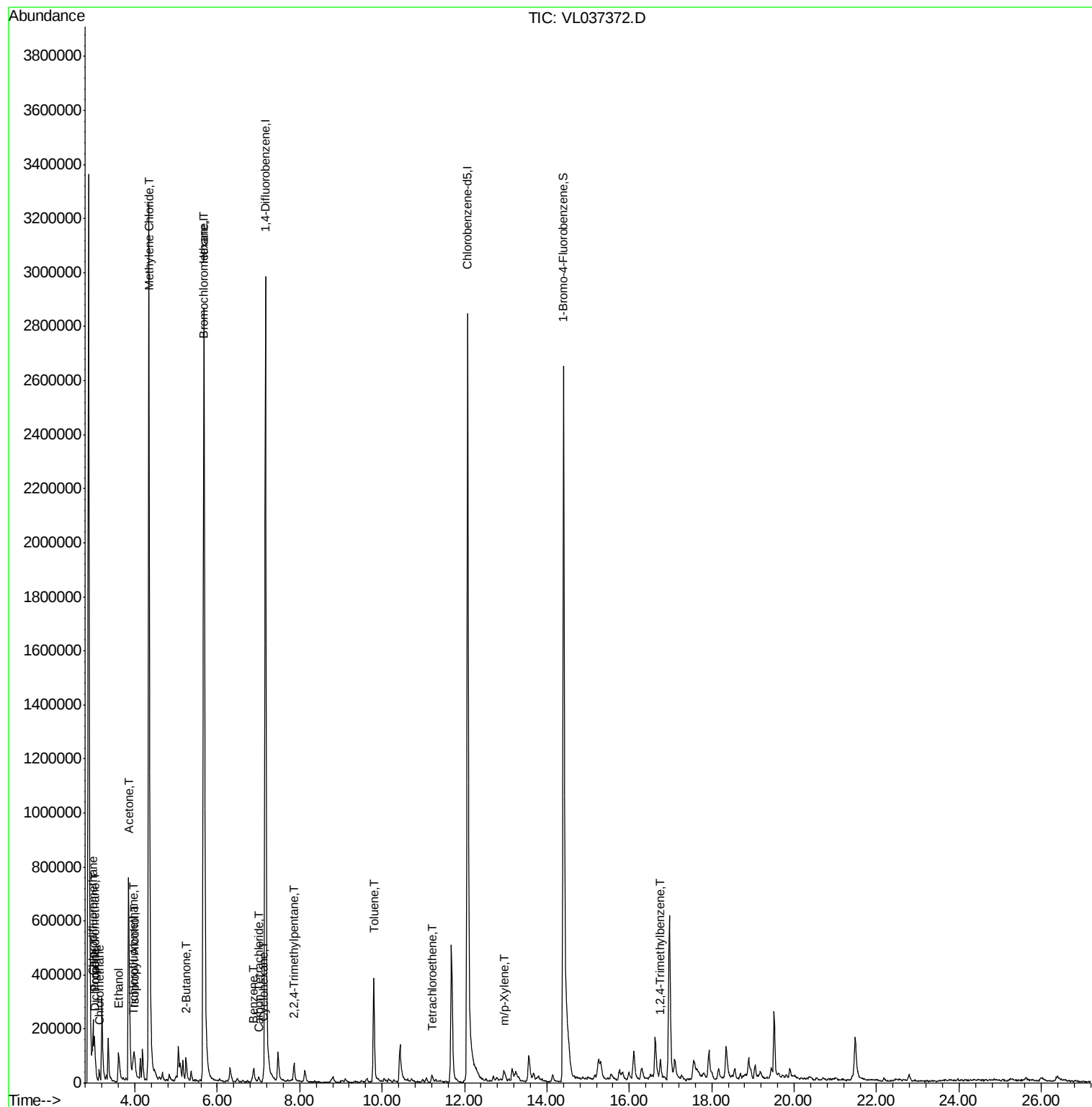
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
Data File : VL037372.D
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Operator : SY/AP
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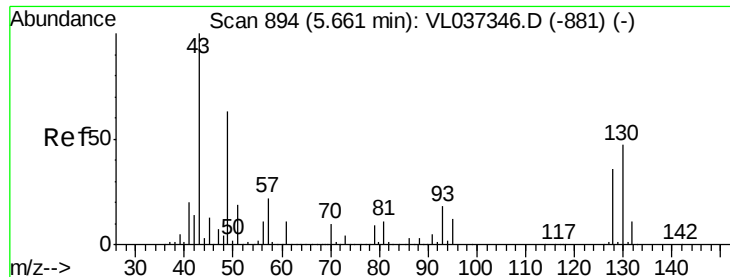
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Aug 09 02:07:16 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 06 17:52:04 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2RE

Tot Ion: 49 Resp: 829412

Ion Ratio Lower Upper

49 100

128 63.1 32.1 96.3

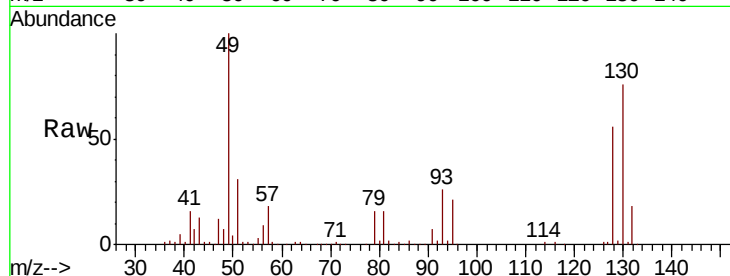
130 81.8 40.0 120.0

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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

500000

400000

300000

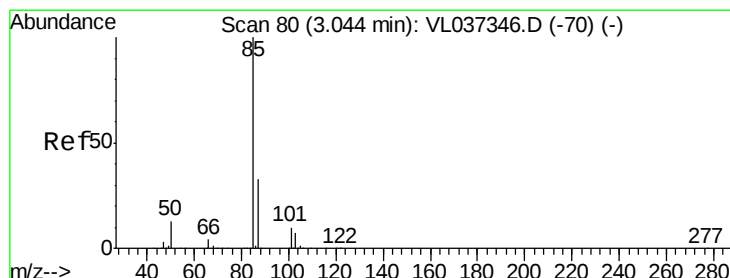
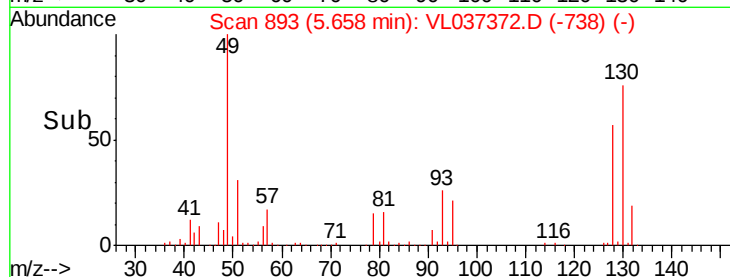
200000

100000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.217 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL037372.D

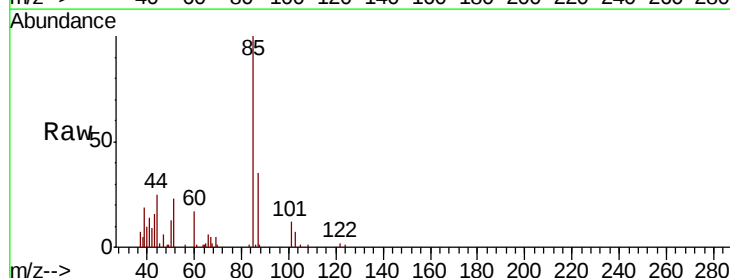
Acq: 7 Aug 2021 9:58

Tgt Ion: 85 Resp: 40823

Ion Ratio Lower Upper

85 100

87 35.5 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

25000

20000

15000

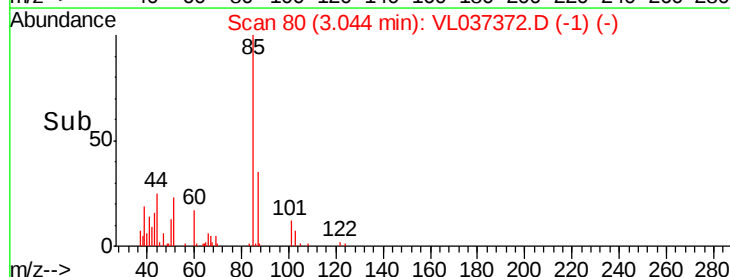
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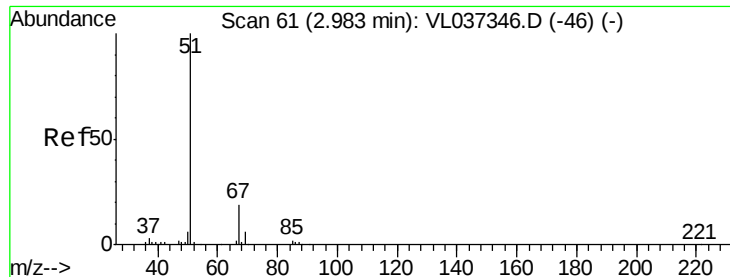
5000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 1.831 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2RE

Tot Ion: 51 Resp: 302844

Ion Ratio Lower Upper

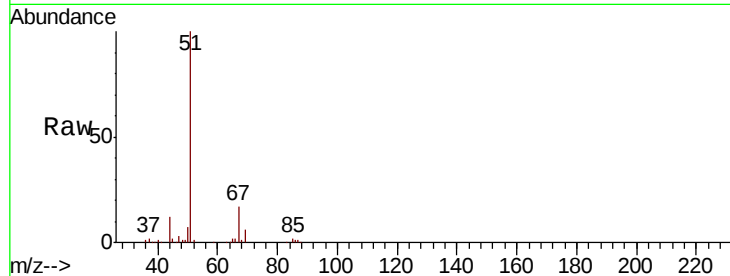
51 100

67 15.4 15.6 23.4#

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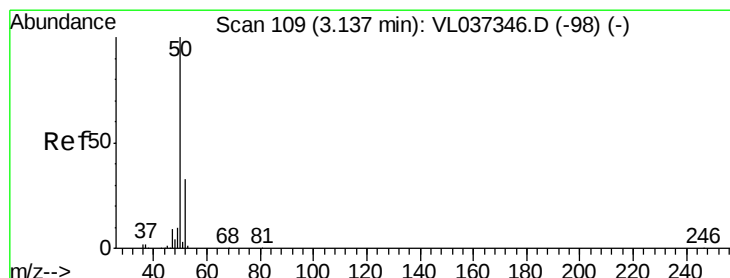
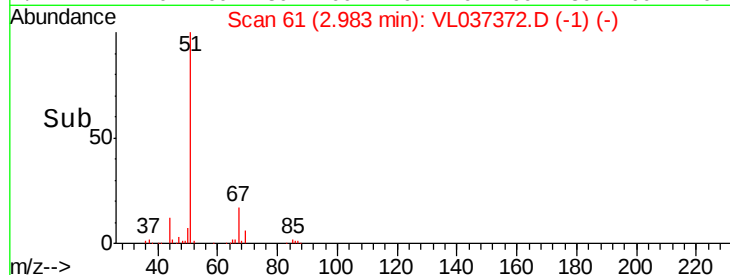
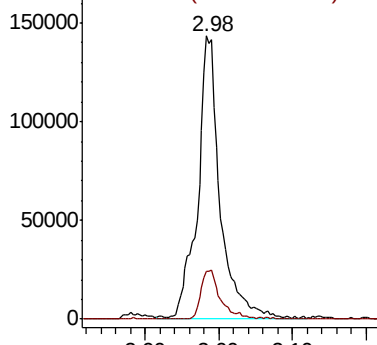
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.638 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL037372.D

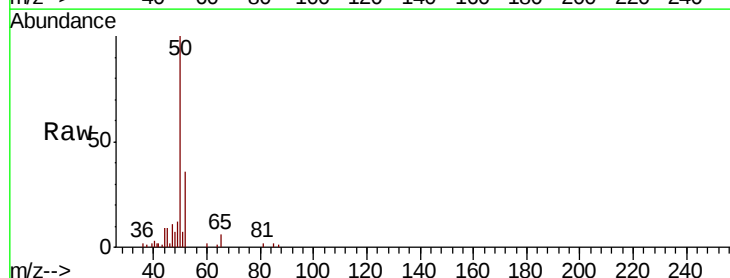
Acq: 7 Aug 2021 9:58

Tgt Ion: 50 Resp: 36093

Ion Ratio Lower Upper

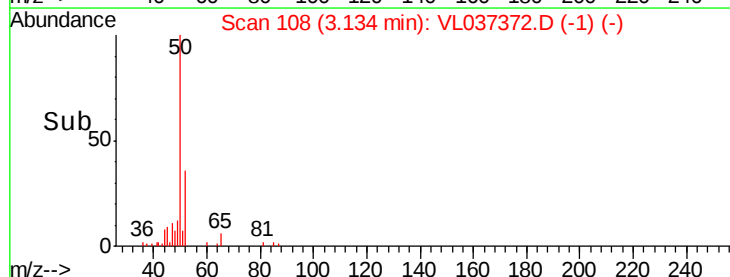
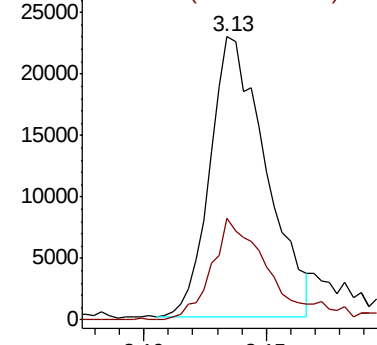
50 100

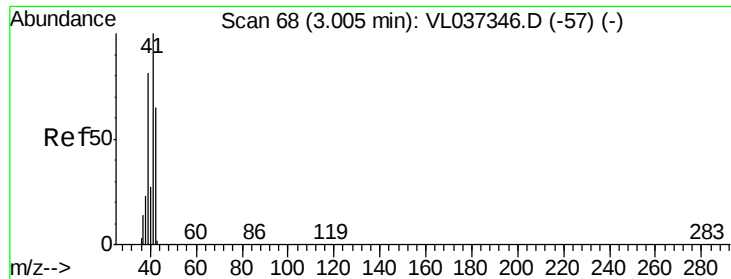
52 36.3 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.632 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2RE

Tot Ion: 41 Resp: 35080

Ion Ratio Lower Upper

41 100

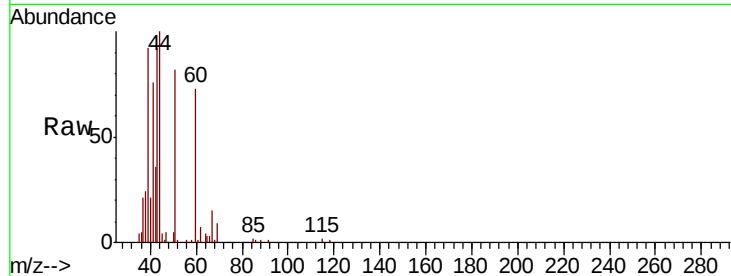
42 57.1 54.3 81.5

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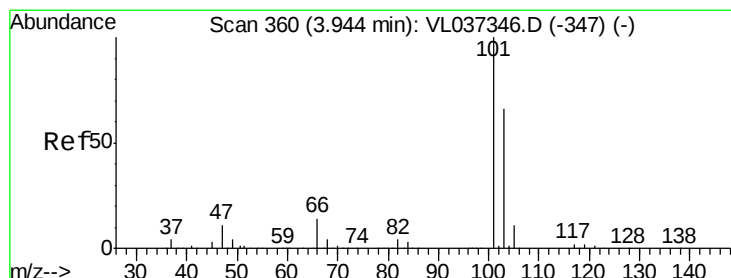
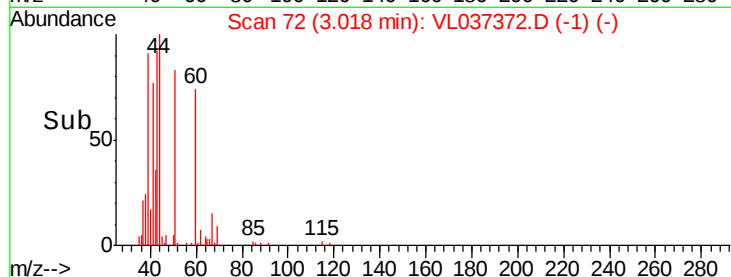
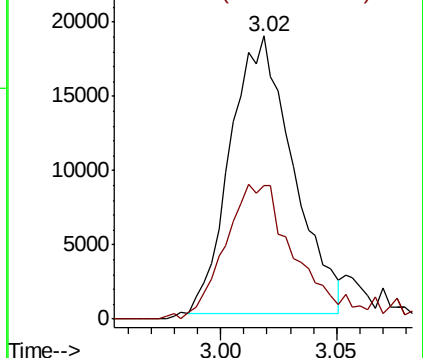
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.235 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL037372.D

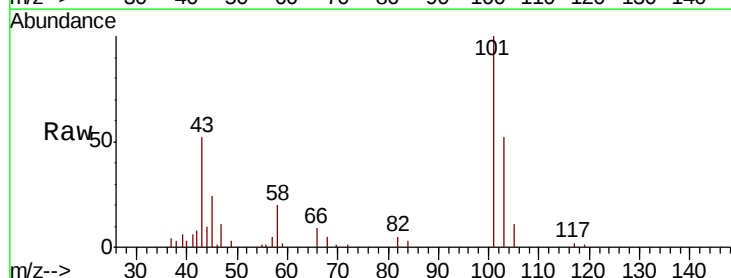
Acq: 7 Aug 2021 9:58

Tgt Ion: 101 Resp: 37803

Ion Ratio Lower Upper

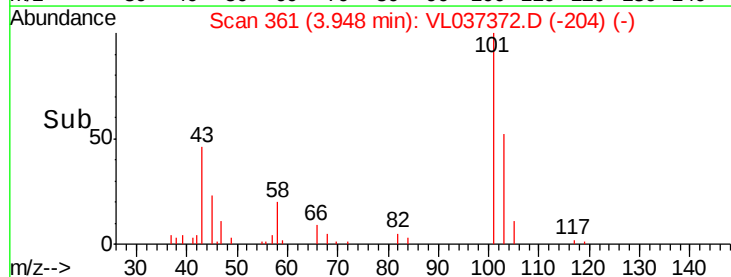
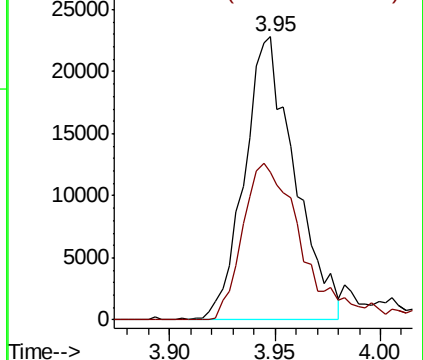
101 100

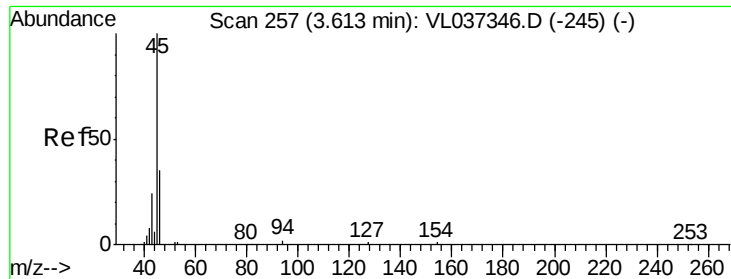
103 52.1 52.5 78.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





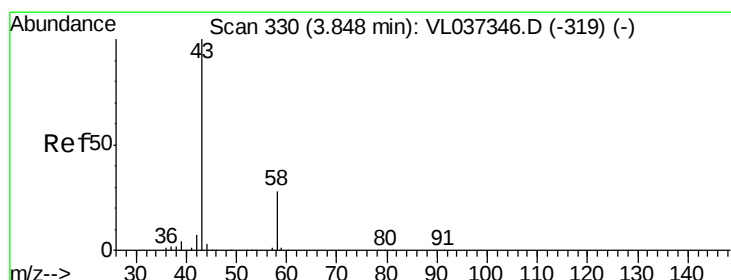
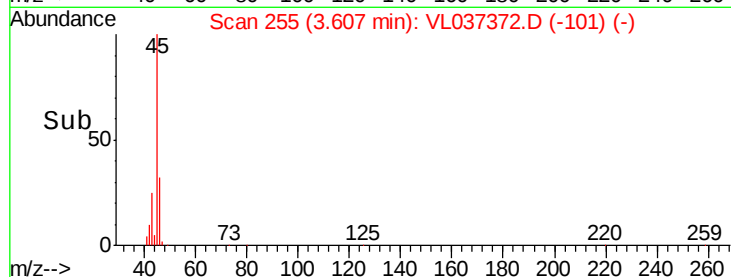
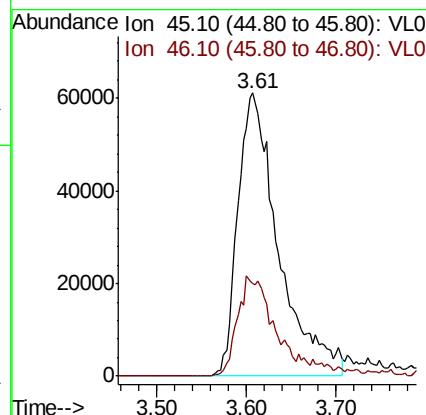
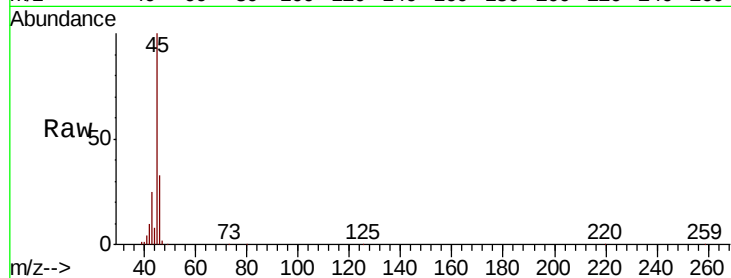
#13
Ethanol
Concen: 18.837 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. -0.01 min
Lab File: VL037372.D
Acq: 7 Aug 2021 9:58

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2RE

Tot Ion	45	46	Ratio	Lower	Upper
192863	100	36.6		15.7	62.9

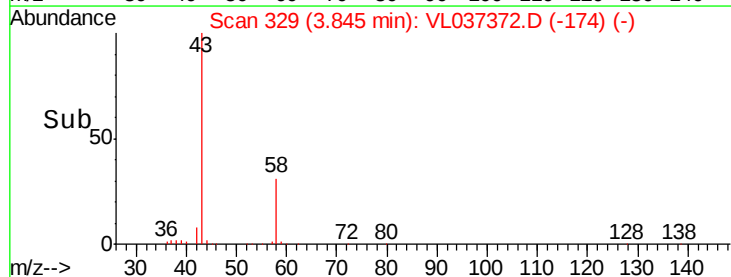
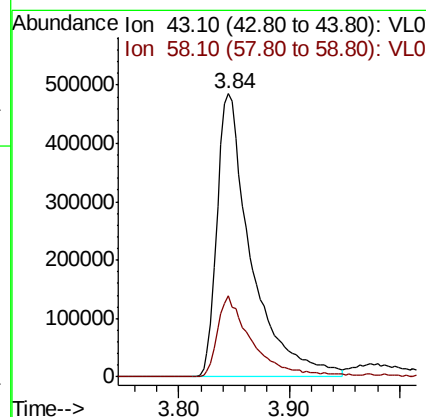
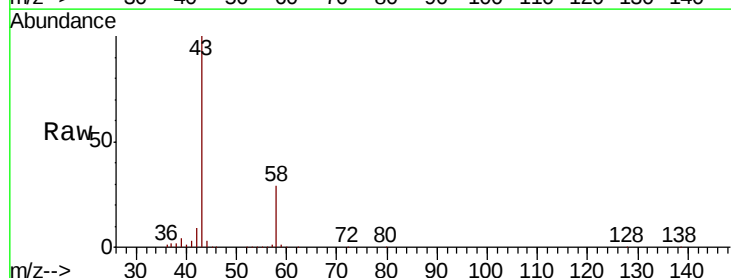
Manual Integrations
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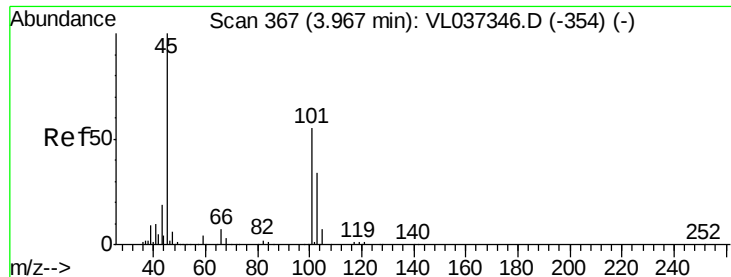
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#15
Acetone
Concen: 11.957 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL037372.D
Acq: 7 Aug 2021 9:58

Tgt Ion	43	58	Ratio	Lower	Upper
1033460	100	30.7		24.6	36.8





#19

Isopropyl Alcohol

Concen: 3.144 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2RE

Tot Ion: 45 Resp: 164493

Ion Ratio Lower Upper

45 100

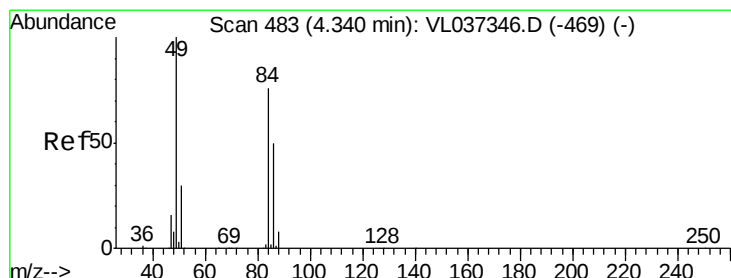
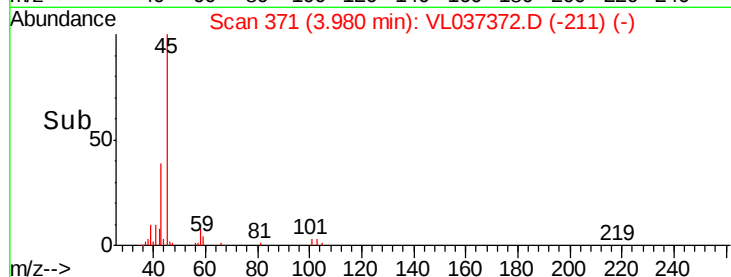
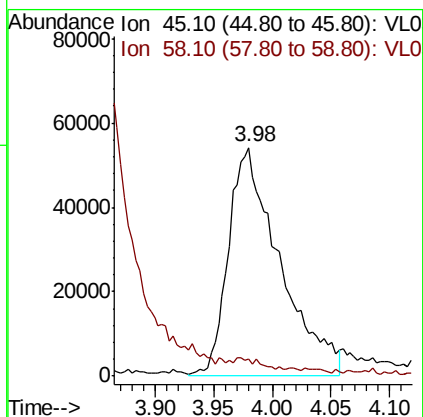
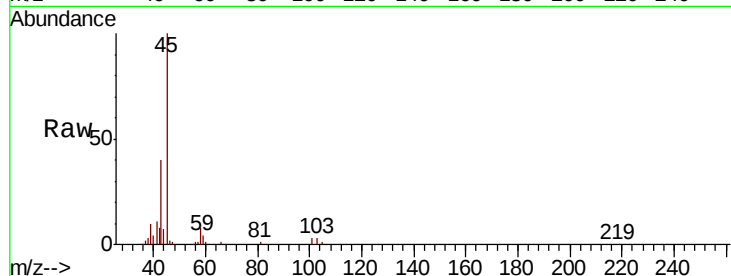
58 194.9 1.8 2.8#

Manual Integrations

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#20

Methylene Chloride

Concen: 21.153 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

Tgt Ion: 84 Resp: 1531155

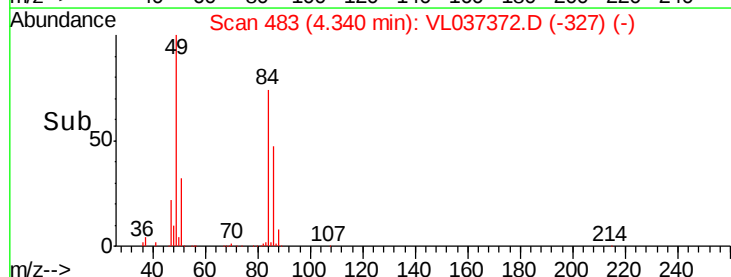
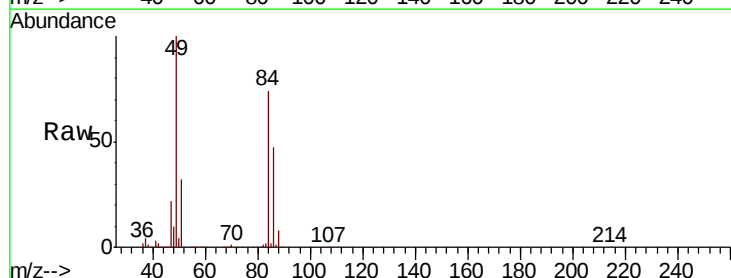
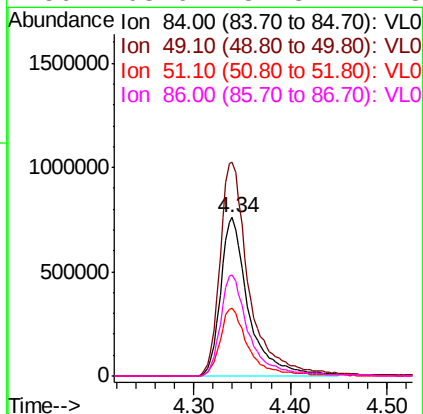
Ion Ratio Lower Upper

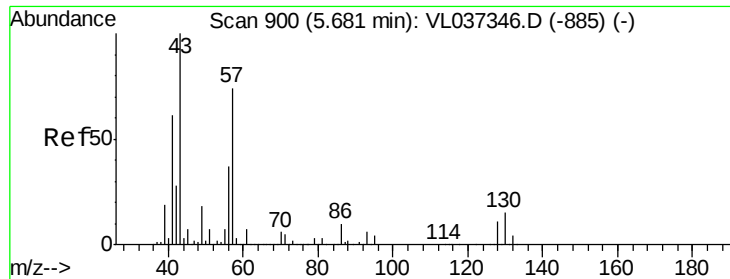
84 100

49 134.9 107.3 160.9

51 42.5 33.0 49.4

86 63.6 51.8 77.8





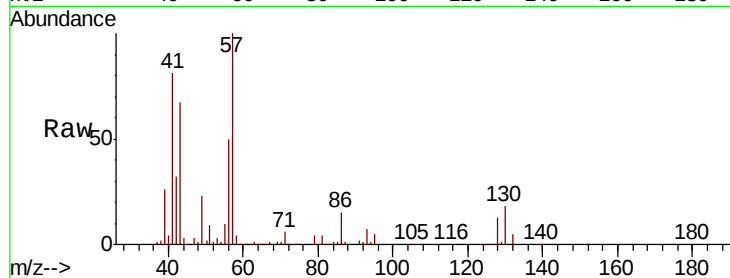
#26
Hexane
Concen: 8.461 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037372.D
Acq: 7 Aug 2021 9:58

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2RE

Tot Ion	Ratio	Lower	Upper
57	100		
41	88.2	69.2	103.8
43	70.6	162.1	243.1#
56	53.4	42.2	63.4

Manual Integrations
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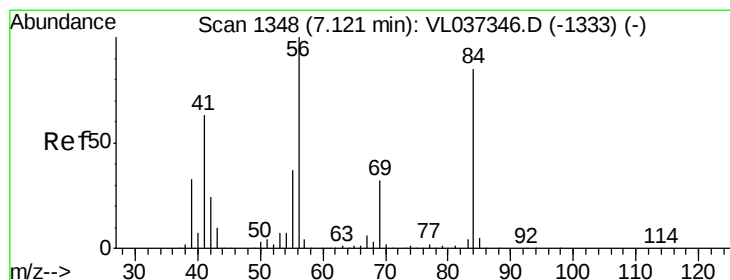
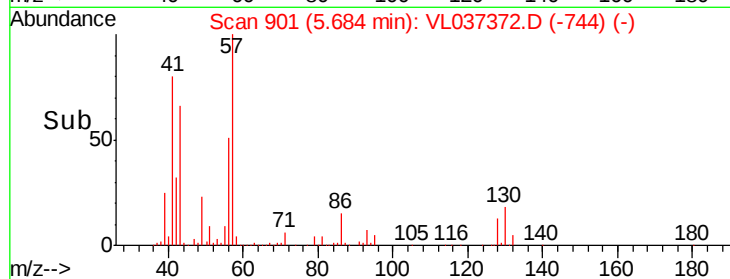
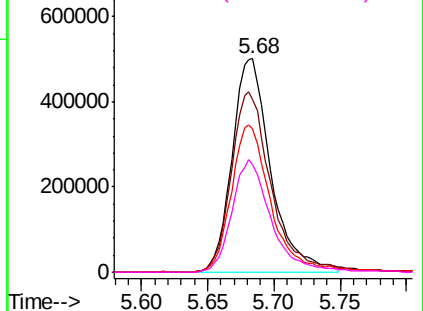
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

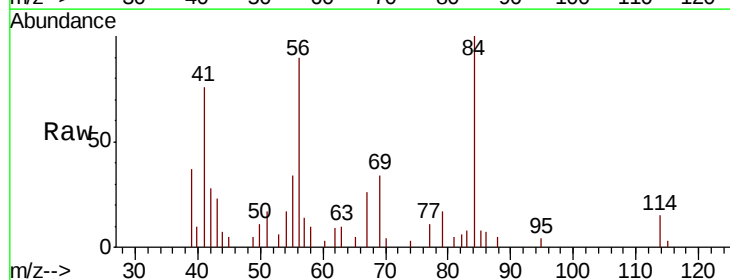
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.158 ppbv m
RT: 7.12 min Scan# 1348
Delta R.T. 0.00 min
Lab File: VL037372.D
Acq: 7 Aug 2021 9:58

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	103.5	155.3#
41	0.0	61.4	92.2#

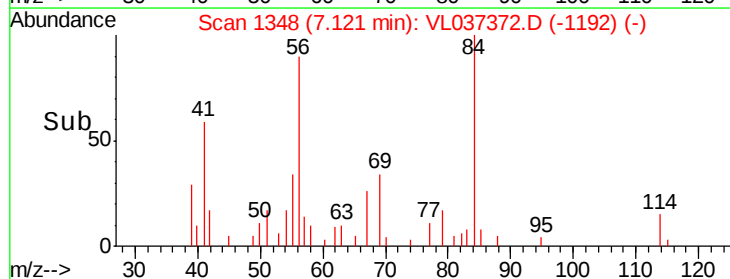
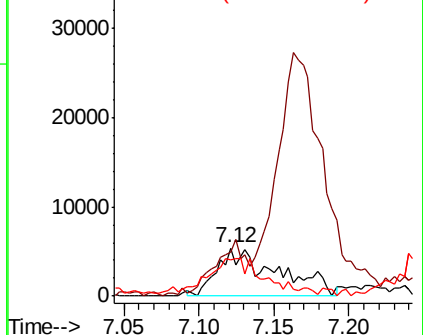


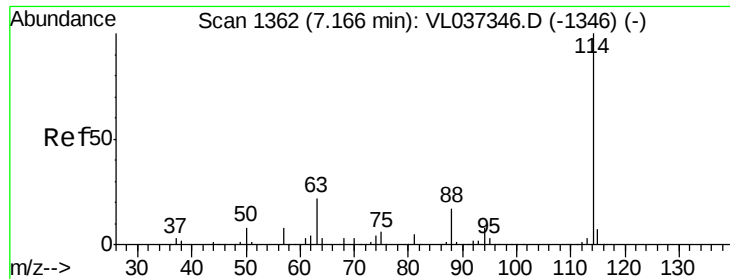
Abundance

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





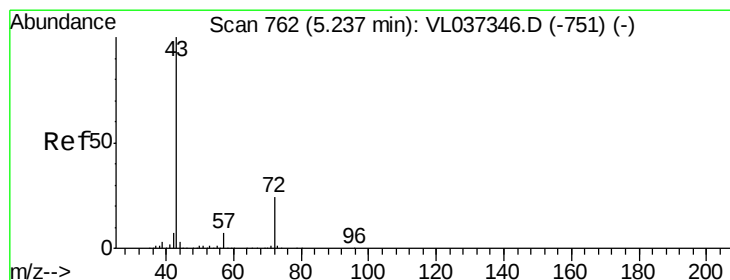
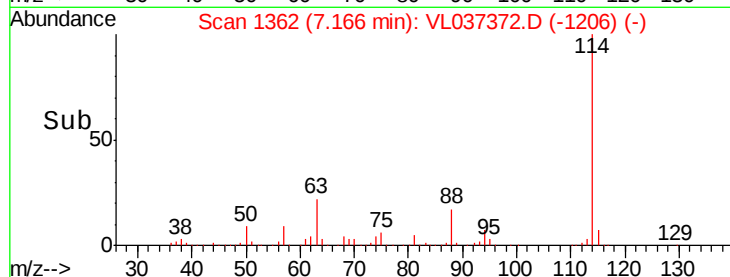
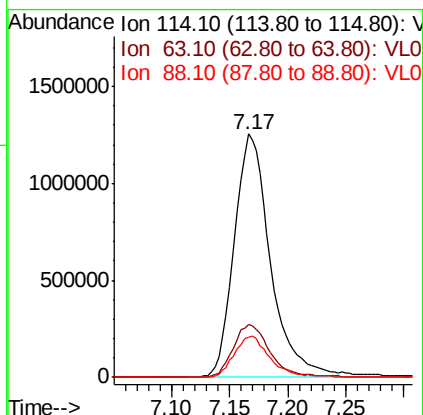
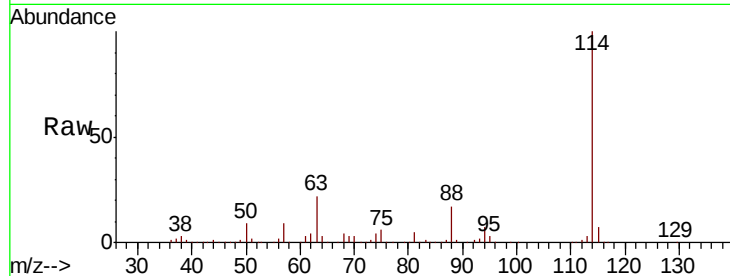
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VL037372.D
 Acq: 7 Aug 2021 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-2RE

Tot Ion:114 Resp: 2711494
 Ion Ratio Lower Upper
 114 100
 63 22.5 17.8 26.6
 88 17.3 13.5 20.3

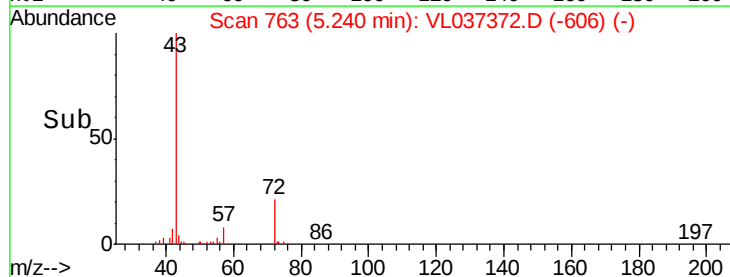
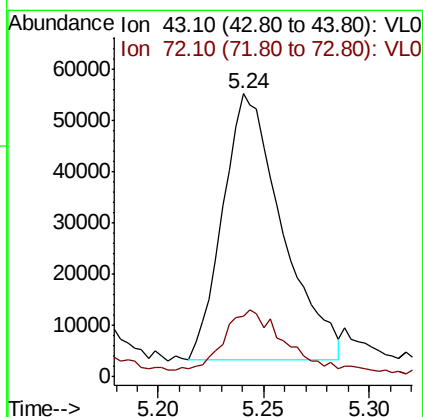
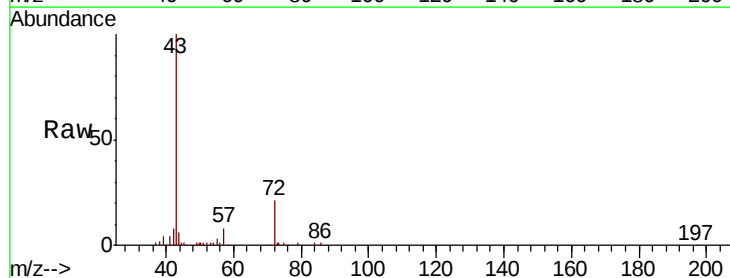
Manual Integrations
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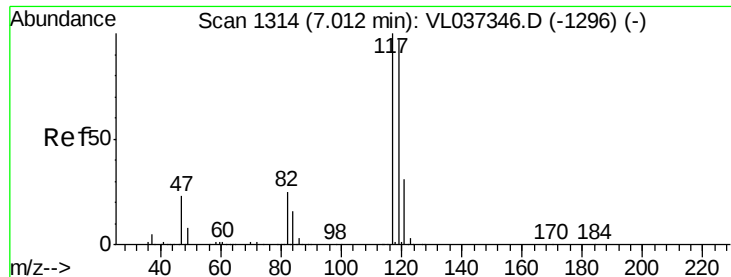
MMDadoda
 8/10/2021 6:10:59 PM



#34
 2-Butanone
 Concen: 1.111 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: VL037372.D
 Acq: 7 Aug 2021 9:58

Tgt Ion: 43 Resp: 101117
 Ion Ratio Lower Upper
 43 100
 72 31.5 19.8 29.6#





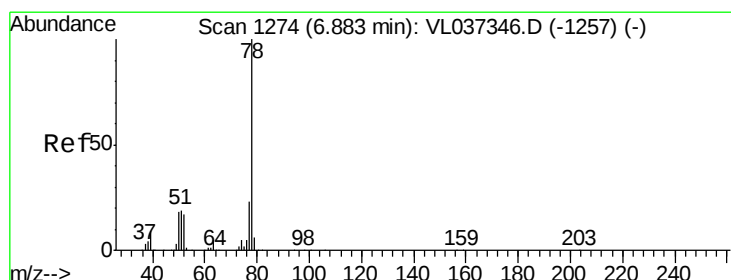
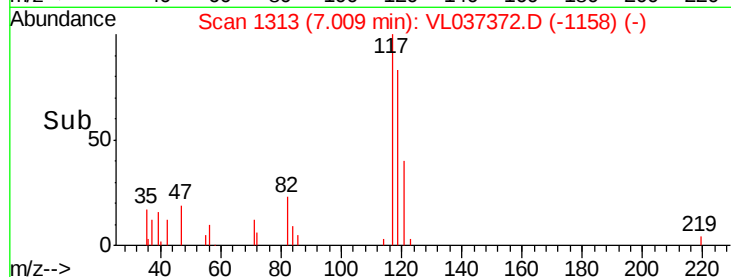
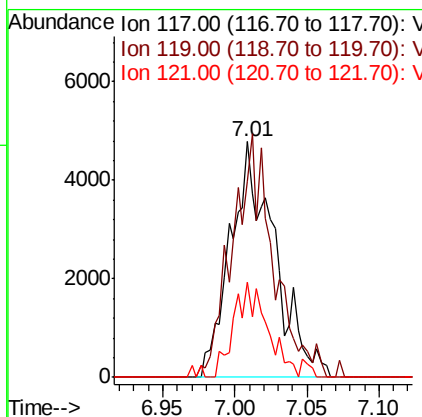
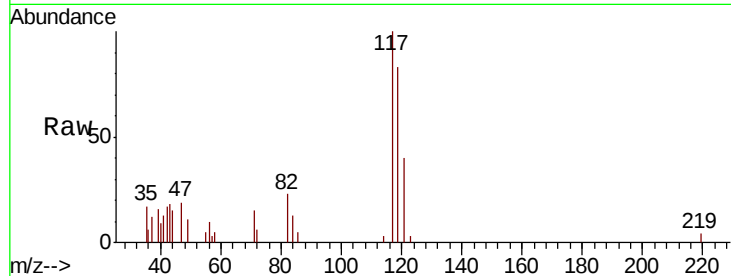
#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. -0.00 min
Lab File: VL037372.D
Acq: 7 Aug 2021 9:58

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2RE

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.3	77.8	116.8
121	40.4	24.6	36.8

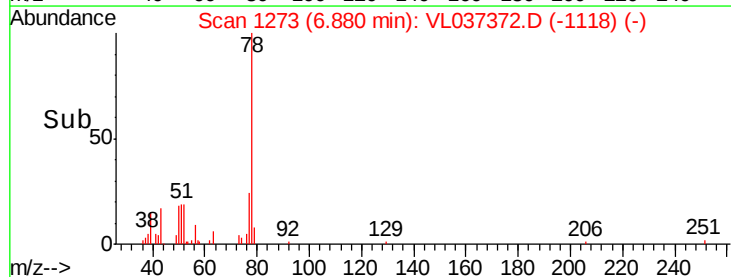
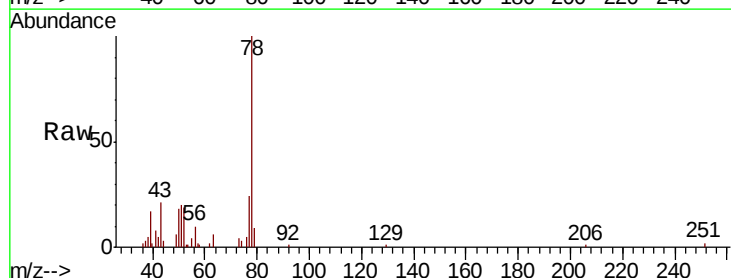
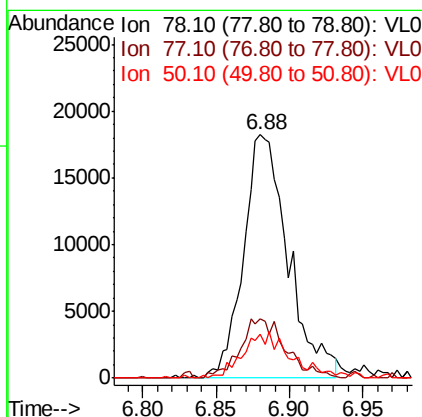
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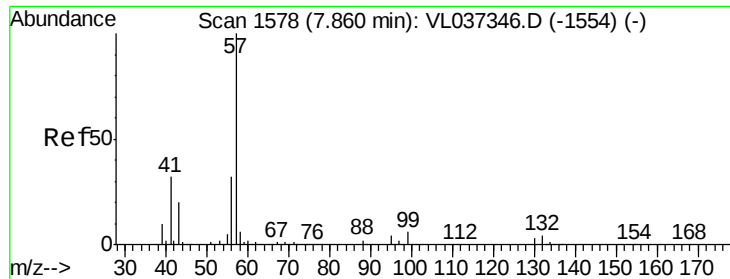
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#36
Benzene
Concen: 0.185 ppbv m
RT: 6.88 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VL037372.D
Acq: 7 Aug 2021 9:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.7	28.1
50	18.2	14.6	22.0





#44

2,2,4-Trimethylpentane

Concen: 0.178 ppbv m

RT: 7.86 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

Instrument :

MSVOA_L

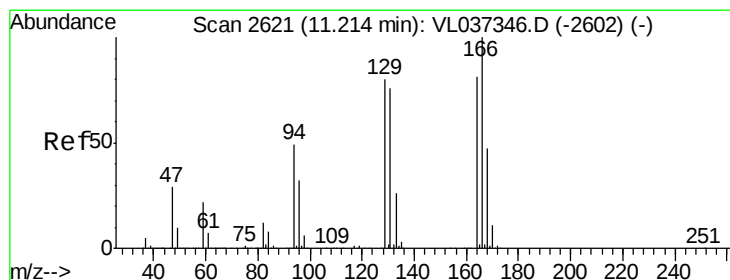
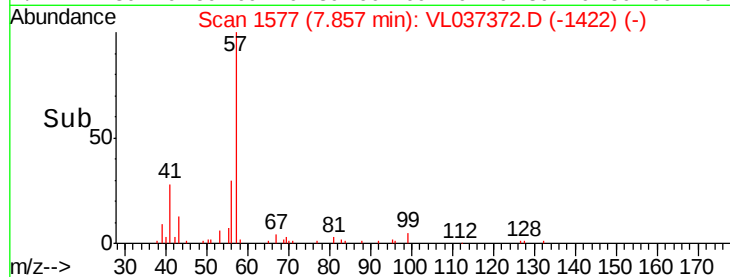
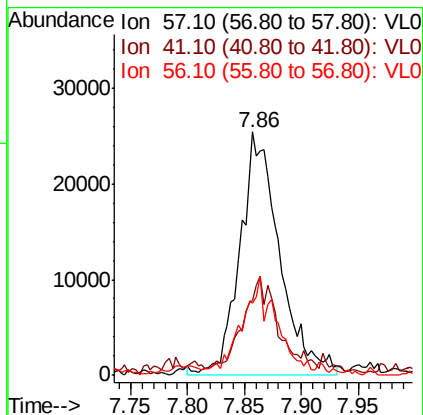
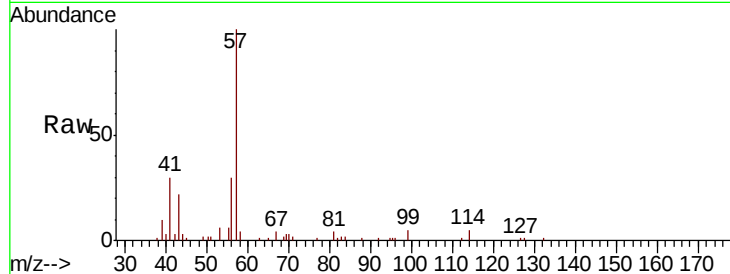
ClientSampleId :

IA-BEDROOM-2RE

Tot Ion:	57	Resp:	61949
Ion Ratio	Lower	Upper	
57	100		
41	0.0	26.1	39.1#
56	0.0	25.0	37.4#

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#52

Tetrachloroethene

Concen: 0.044 ppbv m

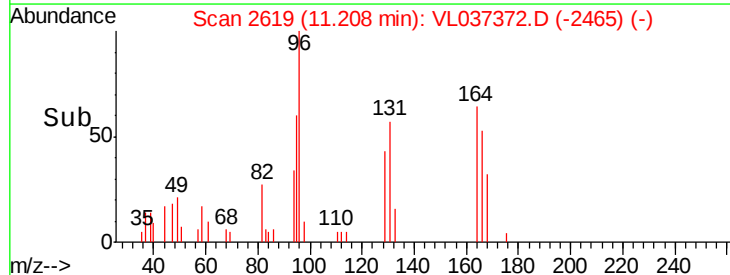
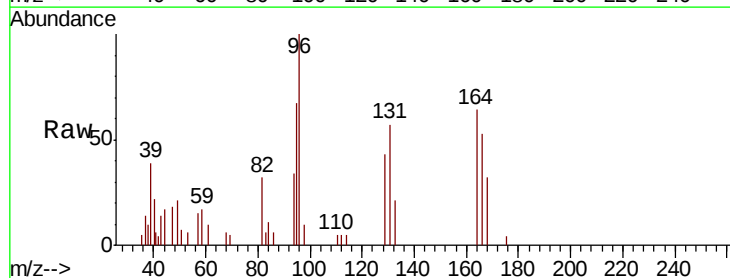
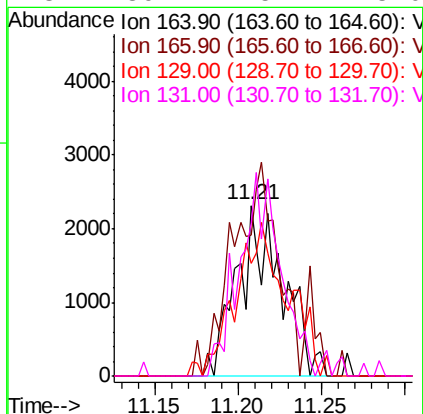
RT: 11.21 min Scan# 2619

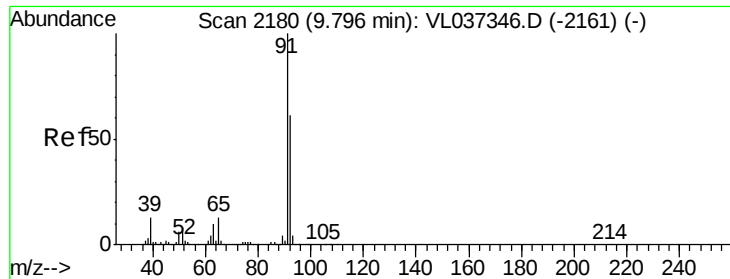
Delta R.T. -0.01 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

Tgt Ion:	164	Resp:	4365
Ion Ratio	Lower	Upper	
164	100		
166	82.6	99.4	149.0#
129	66.4	79.2	118.8#
131	89.1	75.4	113.0





#53

Toluene

Concen: 1.391 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2RE

Tot Ion: 91 Resp: 337051

Ion Ratio Lower Upper

91 100

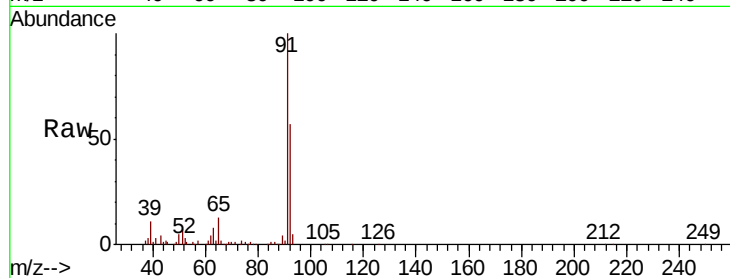
92 61.6 48.2 72.4

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.79

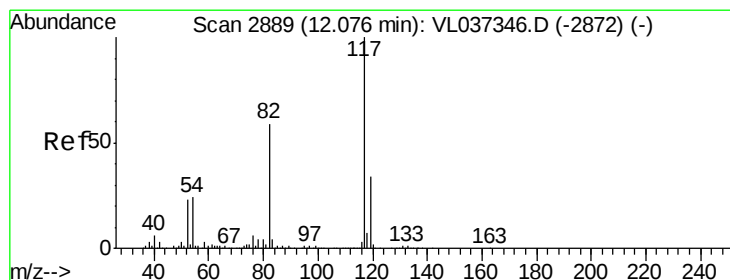
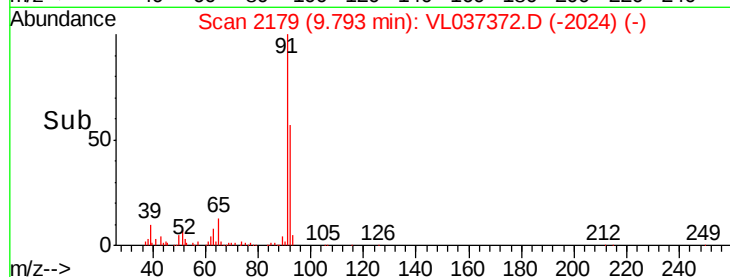
150000

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. 0.00 min

Lab File: VL037372.D

Acq: 7 Aug 2021 9:58

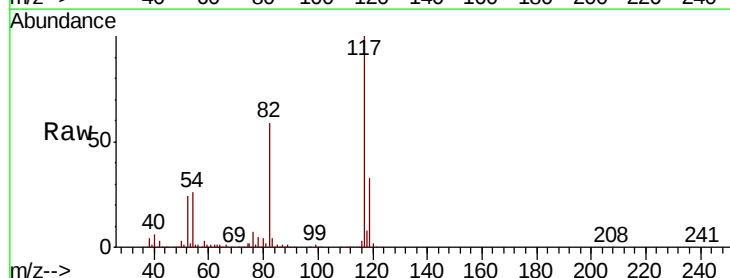
Tgt Ion: 117 Resp: 2260959

Ion Ratio Lower Upper

117 100

82 65.3 46.0 69.0

119 35.2 24.4 36.6



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1200000

1000000

800000

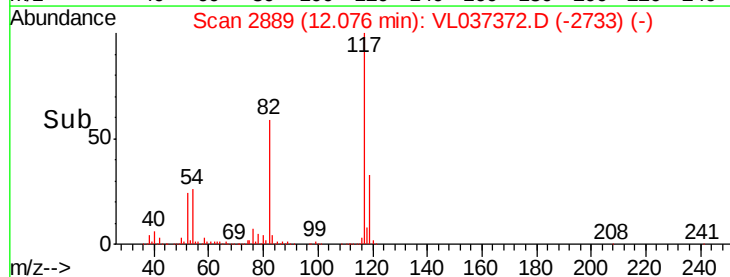
600000

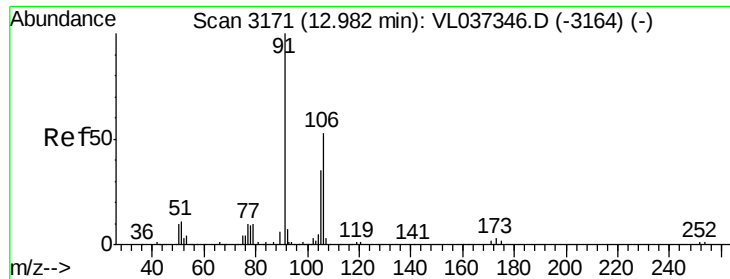
400000

200000

0

Time-->





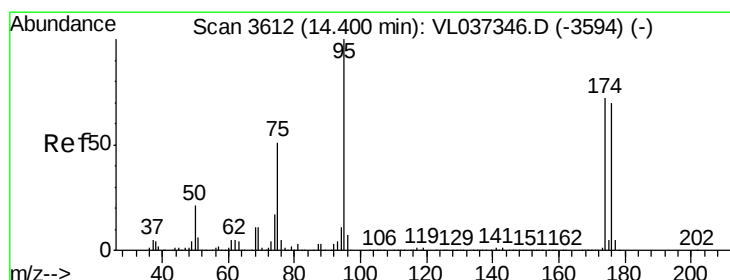
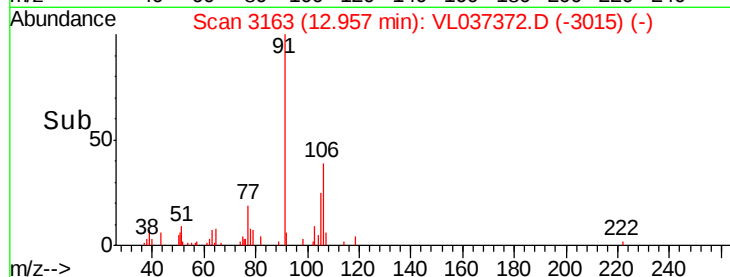
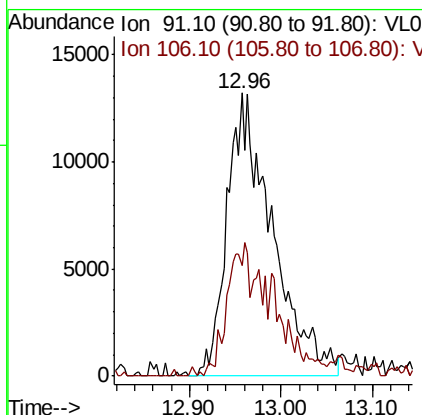
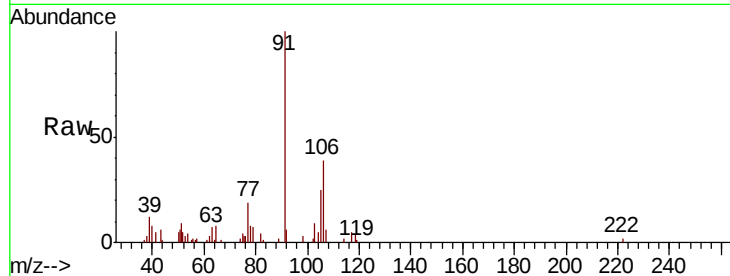
#59
m/p-Xylene
Concen: 0.176 ppbv m
RT: 12.96 min Scan# 3163
Delta R.T. -0.03 min
Lab File: VL037372.D
Acq: 7 Aug 2021 9:58

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2RE

Tot Ion: 91 Resp: 45322
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.6#

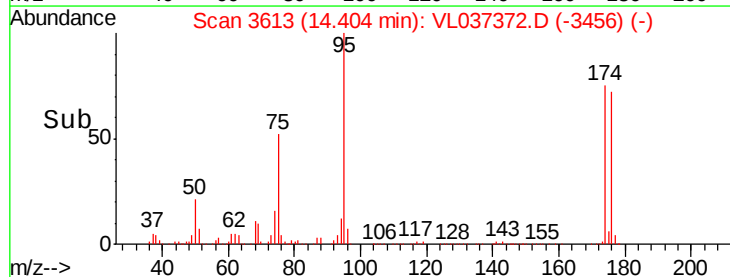
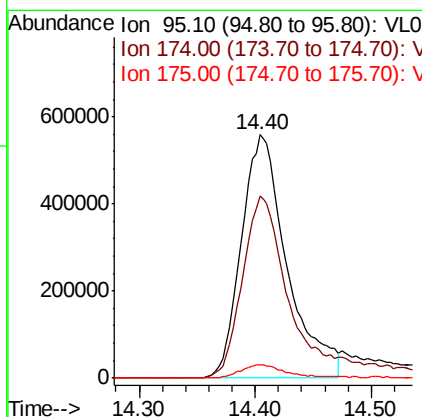
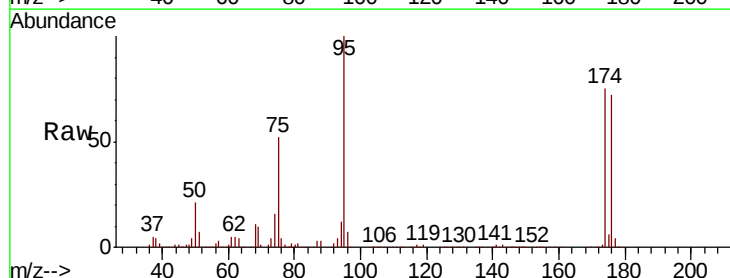
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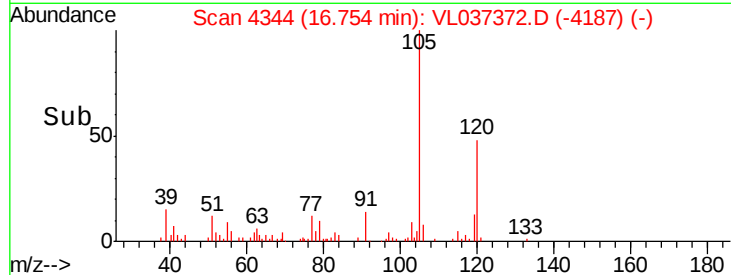
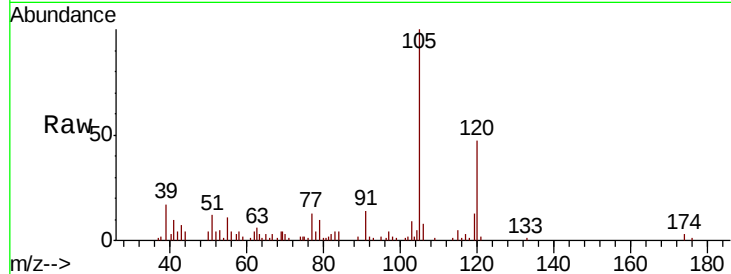
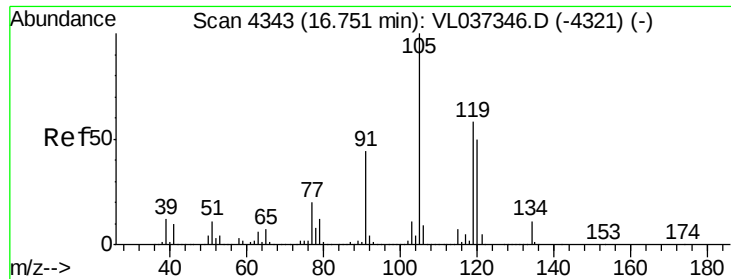
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.625 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. 0.00 min
Lab File: VL037372.D
Acq: 7 Aug 2021 9:58

Tgt Ion: 95 Resp: 1533063
Ion Ratio Lower Upper
95 100
174 84.5 60.8 91.2
175 6.3 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.203 ppbv m
 RT: 16.75 min Scan# 4344
 Delta R.T. 0.00 min
 Lab File: VL037372.D
 Acq: 7 Aug 2021 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-2RE

Tot Ion:	105	Resp:	56772
Ion Ratio	Lower	Upper	
105	100		
120	46.9	39.7	59.5
91	14.3	35.0	52.6#
77	12.7	16.1	24.1#

Manual Integrations
 APPROVED

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 8/10/2021 6:10:59 PM

