

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037371.D
 Acq On : 7 Aug 2021 9:17
 Operator : SY/AP
 Sample : M3121-05RE
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1RE

Manual Integrations
 APPROVED

MMDadoda
 8/10/2021 6:10:57 PM

Quant Time: Aug 09 02:05:00 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	870571	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2807725	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2348875	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1605566	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	43933	0.223	ppbv	97
3) Chlorodifluoromethane	2.99	51	318392	1.834	ppbv	95
4) Chloromethane	3.13	50	32552	0.549	ppbv	98
9) Propene	3.01	41	32277	0.554	ppbv	85
11) Trichlorofluoromethane	3.95	101	37827	0.224	ppbv	90
13) Ethanol	3.61	45	203885	18.972	ppbv	97
15) Acetone	3.85	43	796143	8.776	ppbv	98
19) Isopropyl Alcohol	3.98	45	193161m	3.518	ppbv	
20) Methylene Chloride	4.34	84	932931	12.279	ppbv	96
26) Hexane	5.68	57	651494	5.138	ppbv #	49
30) Cyclohexane	7.13	84	15987m	0.162	ppbv	
34) 2-Butanone	5.25	43	67023m	0.711	ppbv	
35) Carbon Tetrachloride	7.01	117	11183m	0.064	ppbv	
36) Benzene	6.88	78	34374	0.160	ppbv	96
44) 2,2,4-Trimethylpentane	7.86	57	50676	0.141	ppbv #	84
52) Tetrachloroethene	11.21	164	8458m	0.082	ppbv	
53) Toluene	9.80	91	497931	1.985	ppbv	100
59) m/p-Xylene	12.95	91	40529m	0.152	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	38609m	0.133	ppbv	

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

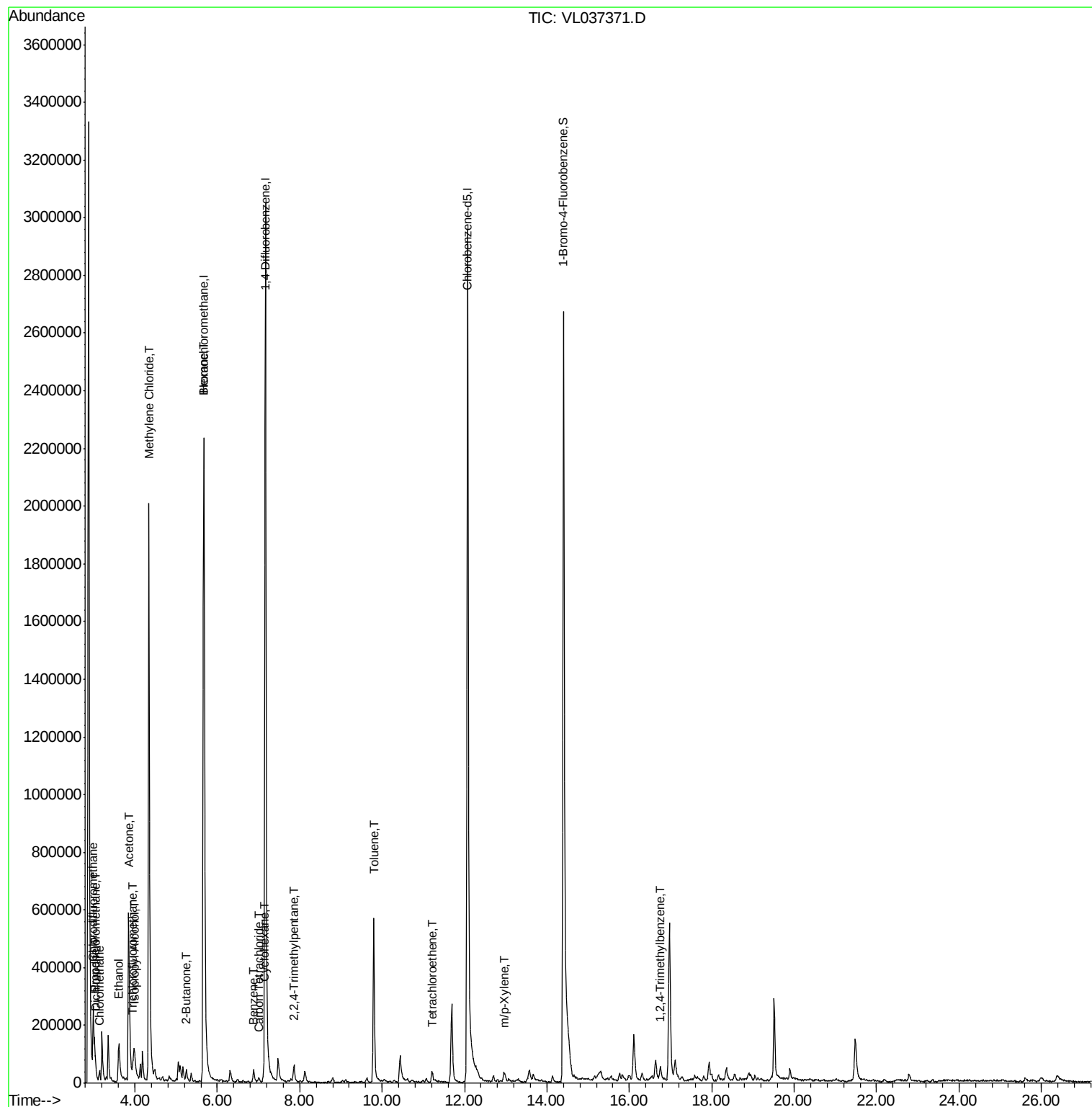
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080621\
Data File : VL037371.D
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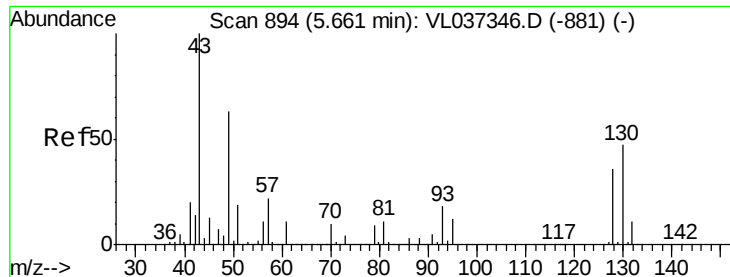
Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1RE

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Quant Time: Aug 09 02:05:00 2021
Quant Method : Z:\V0ASRV\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# 894

Delta R.T. -0.00 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1RE

Tot Ion: 49 Resp: 870571

Ion Ratio Lower Upper

49 100

128 61.4 32.1 96.3

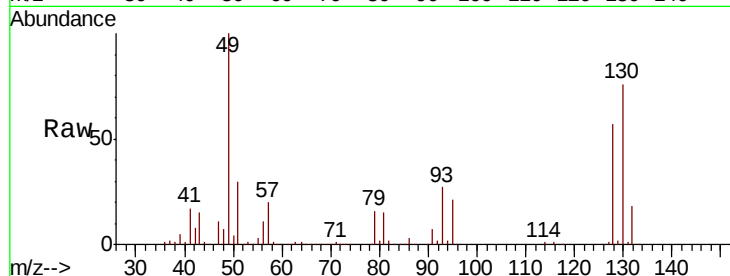
130 79.9 40.0 120.0

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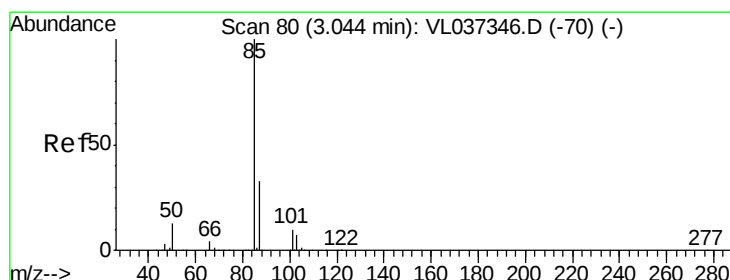
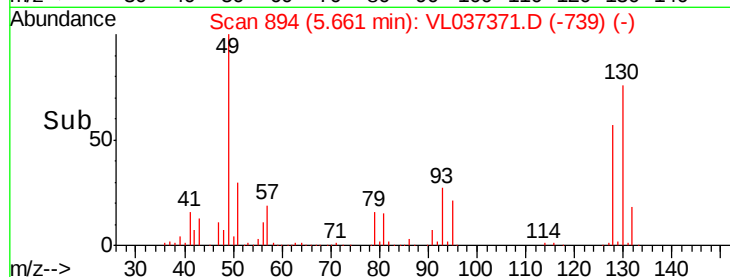
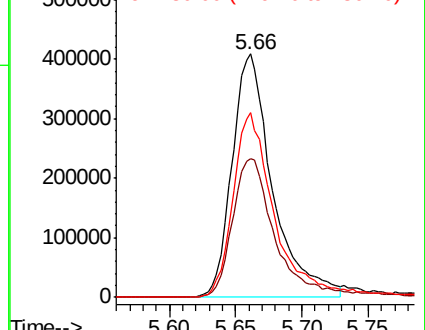
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.223 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL037371.D

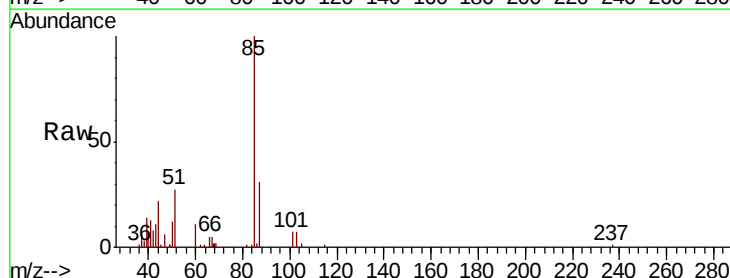
Acq: 7 Aug 2021 9:17

Tgt Ion: 85 Resp: 43933

Ion Ratio Lower Upper

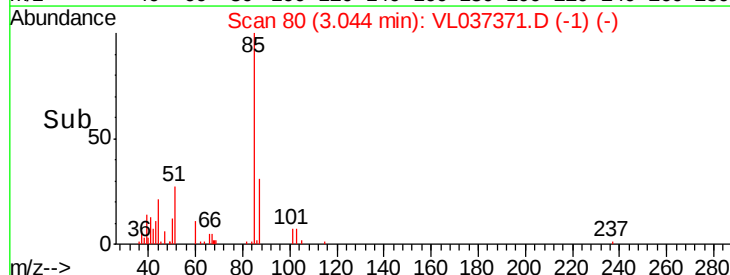
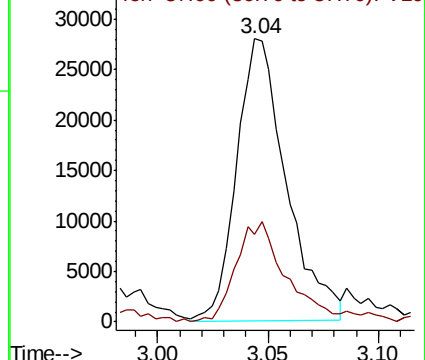
85 100

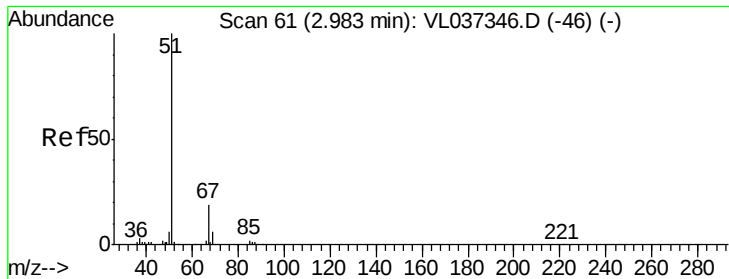
87 31.3 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.834 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1RE

Tot Ion: 51 Resp: 318392

Ion Ratio Lower Upper

51 100

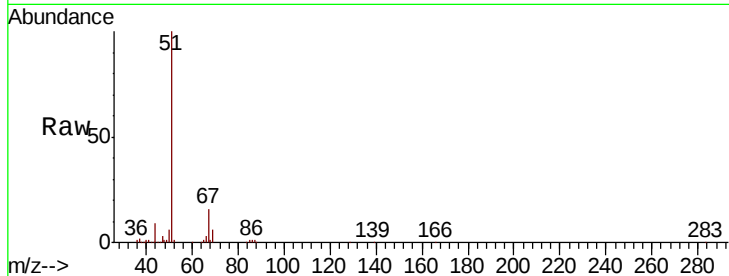
67 17.4 15.6 23.4

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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

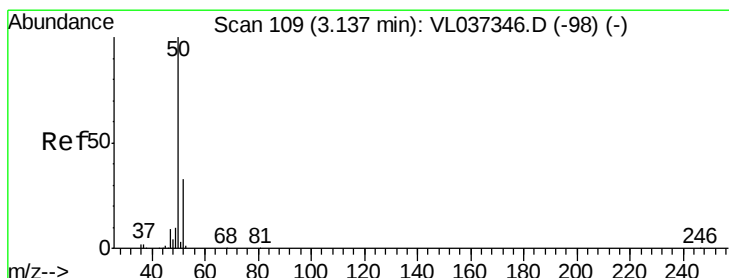
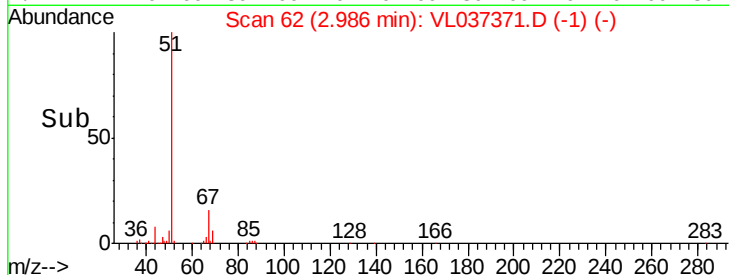
100000

50000

0

2.99

Time-->



#4

Chloromethane

Concen: 0.549 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL037371.D

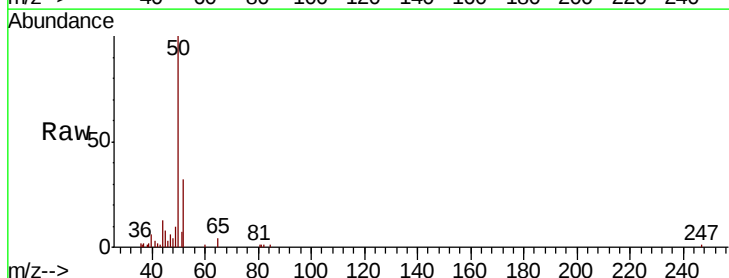
Acq: 7 Aug 2021 9:17

Tgt Ion: 50 Resp: 32552

Ion Ratio Lower Upper

50 100

52 31.7 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

20000

15000

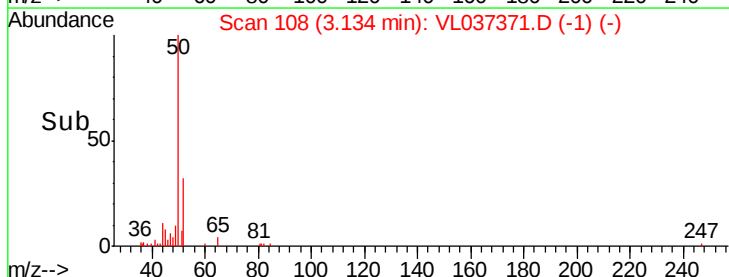
10000

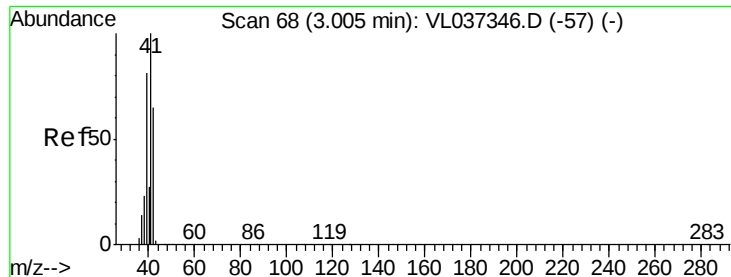
5000

0

3.13

Time-->





#9

Propene

Concen: 0.554 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

Tot Ion	41	Resp	32277
Ion Ratio	100	Lower	Upper
41	100		
42	55.9	54.3	81.5

Instrument :

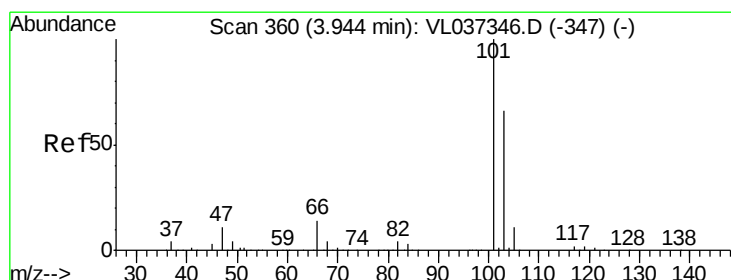
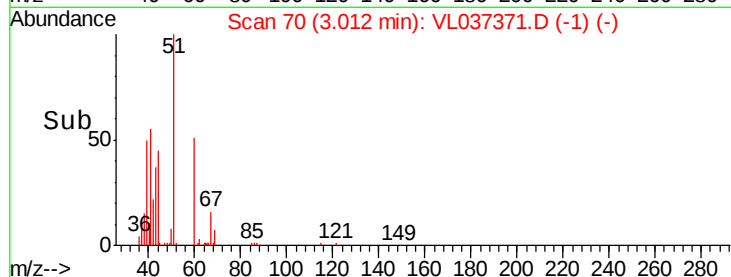
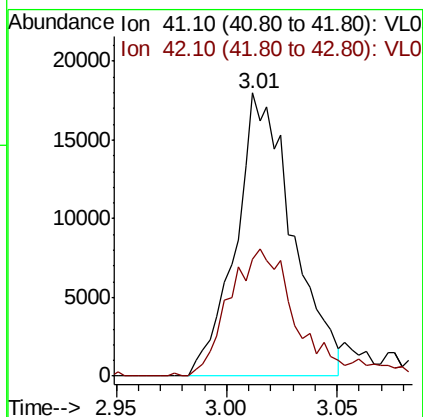
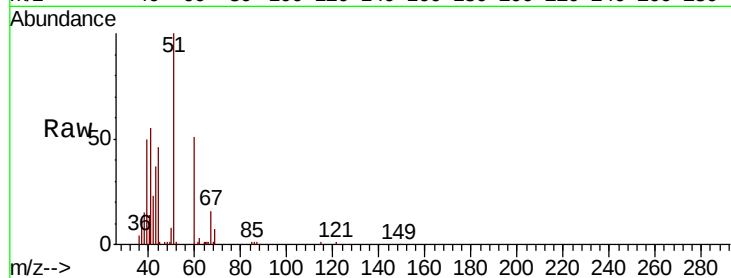
MSVOA_L

ClientSampleId :

IA-BEDROOM-1RE

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#11

Trichlorofluoromethane

Concen: 0.224 ppbv

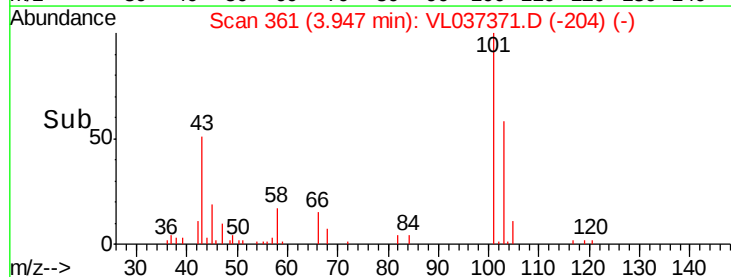
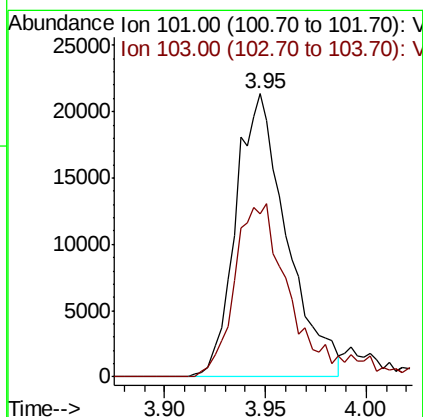
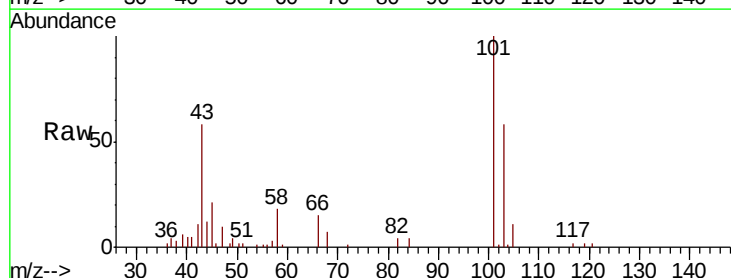
RT: 3.95 min Scan# 361

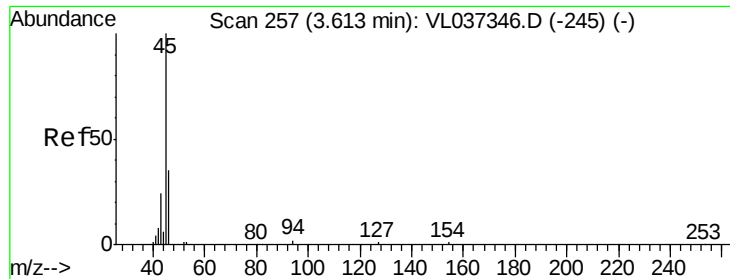
Delta R.T. 0.00 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

Tgt Ion	101	Resp	37827
Ion Ratio	100	Lower	Upper
101	100		
103	57.5	52.5	78.7





#13

Ethanol

Concen: 18.972 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1RE

Tot Ion: 45 Resp: 203885

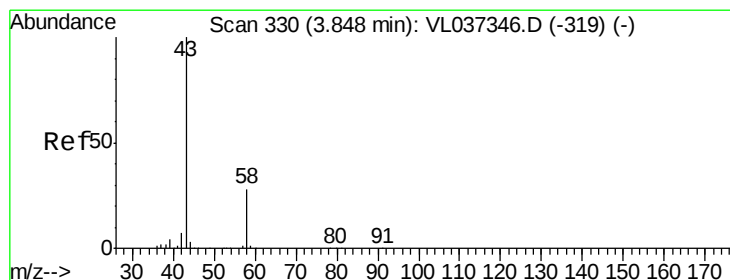
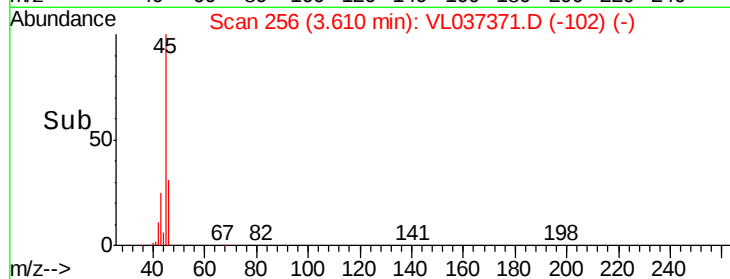
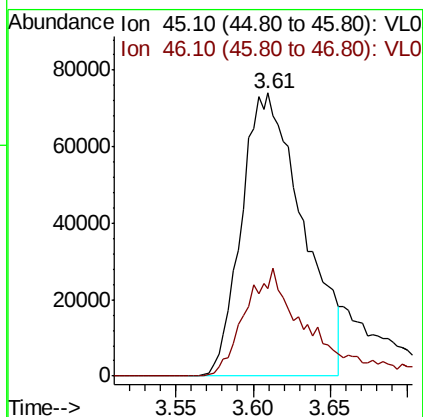
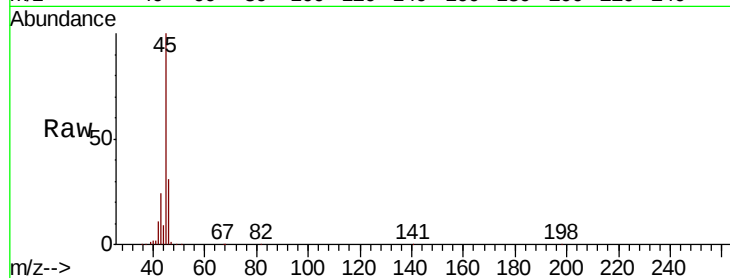
Ion Ratio Lower Upper

45 100

46 40.9 15.7 62.9

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#15

Acetone

Concen: 8.776 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL037371.D

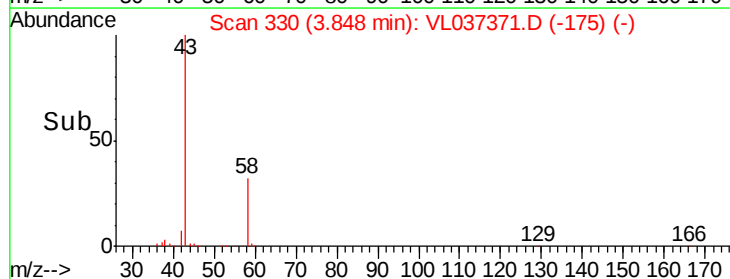
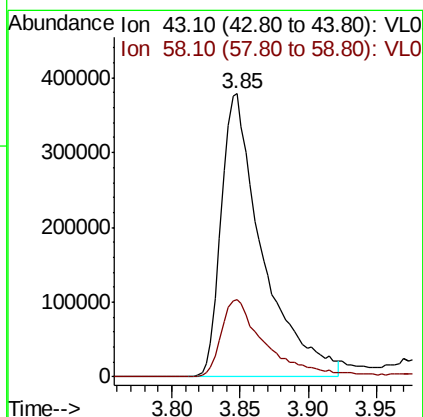
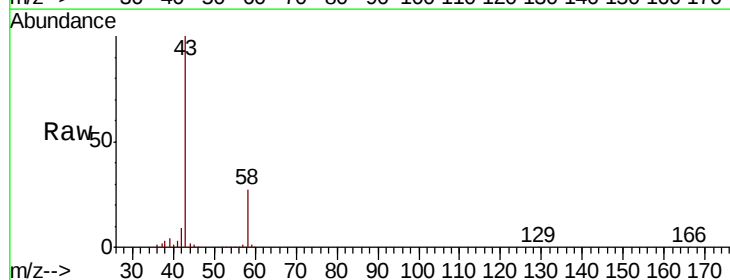
Acq: 7 Aug 2021 9:17

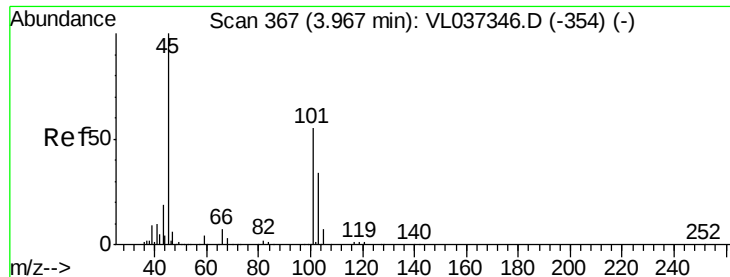
Tgt Ion: 43 Resp: 796143

Ion Ratio Lower Upper

43 100

58 31.5 24.6 36.8





#19

Isopropyl Alcohol

Concen: 3.518 ppbv m

RT: 3.98 min Scan# 372

Delta R.T. 0.02 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1RE

Tot Ion: 45 Resp: 193161

Ion Ratio Lower Upper

45 100

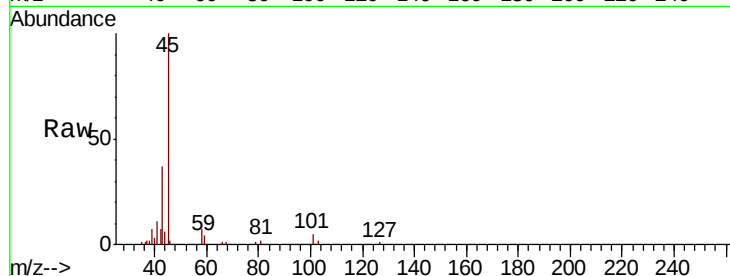
58 7.8 1.8 2.8#

Manual Integrations

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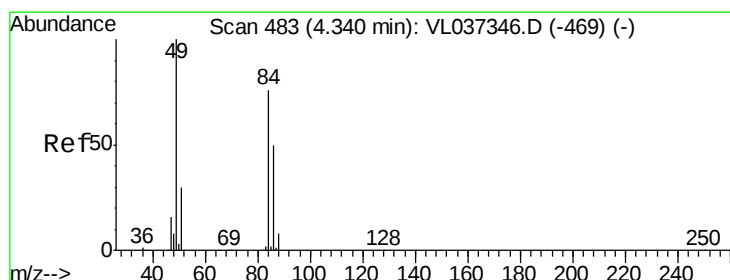
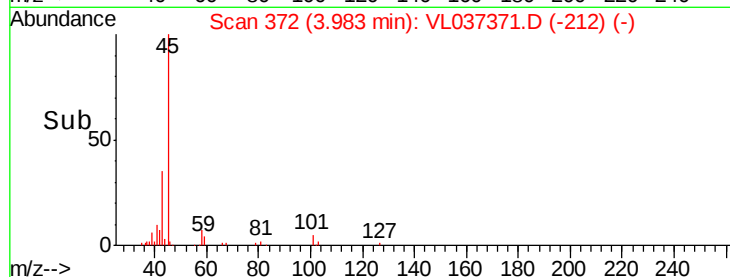
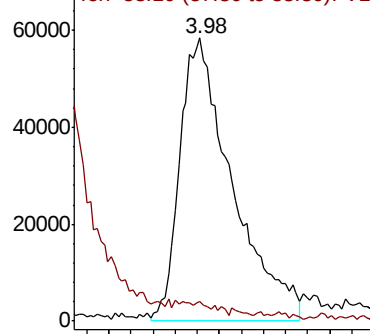
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 12.279 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

Tgt Ion: 84 Resp: 932931

Ion Ratio Lower Upper

84 100

49 141.9 107.3 160.9

51 43.4 33.0 49.4

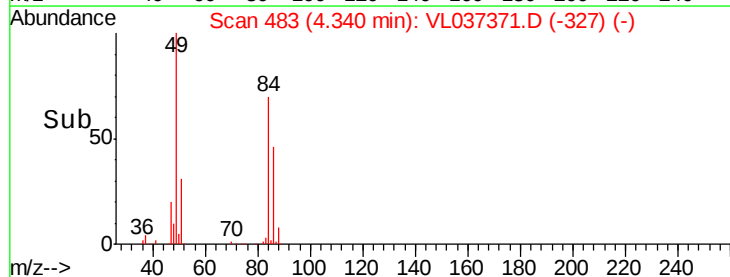
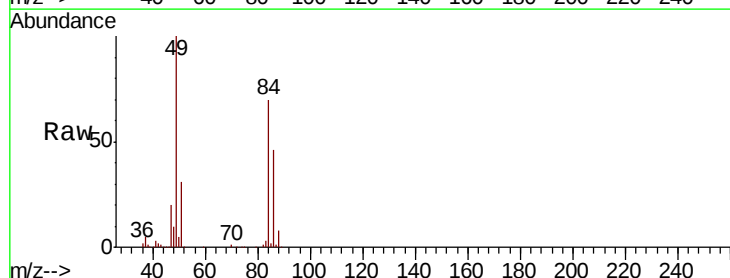
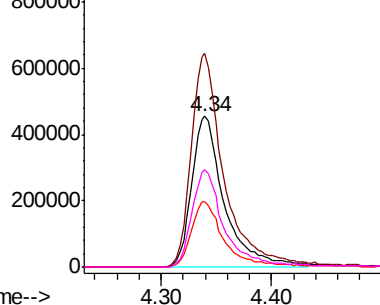
86 65.0 51.8 77.8

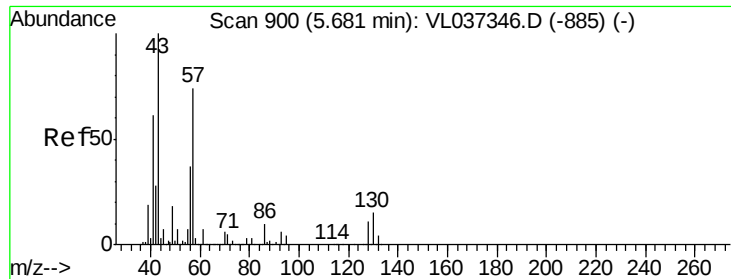
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





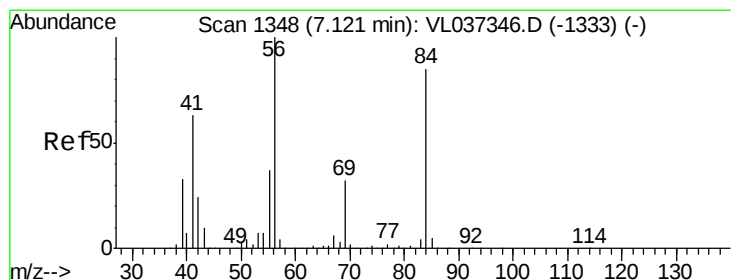
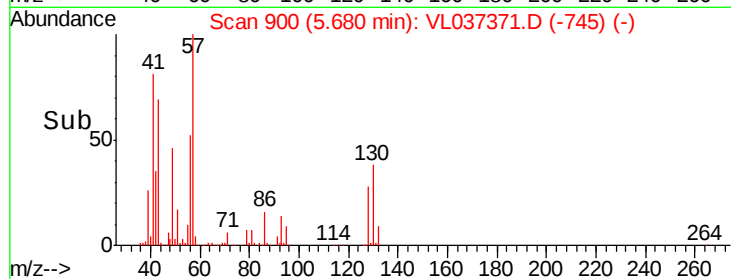
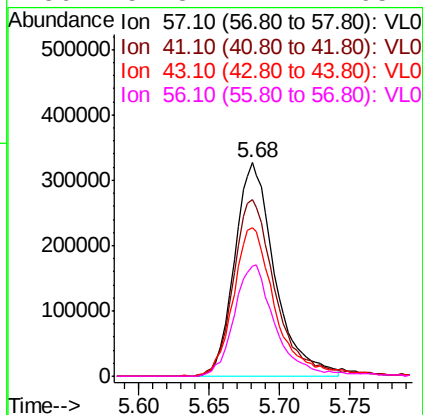
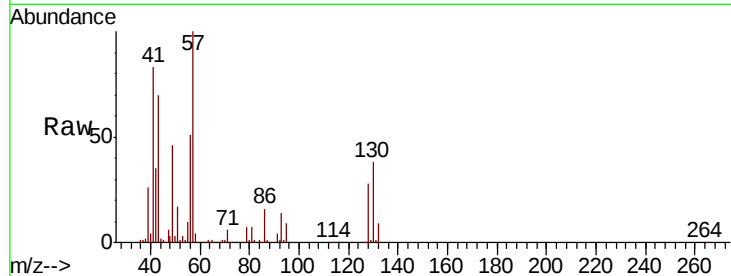
#26
Hexane
Concen: 5.138 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037371.D
Acq: 7 Aug 2021 9:17

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1RE

Tot Ion	Ratio	Lower	Upper
57	100		
41	88.4	69.2	103.8
43	72.8	162.1	243.1#
56	54.3	42.2	63.4

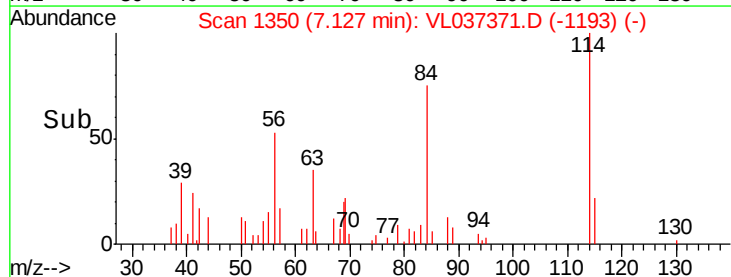
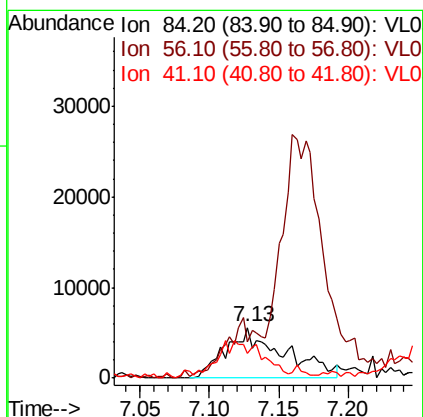
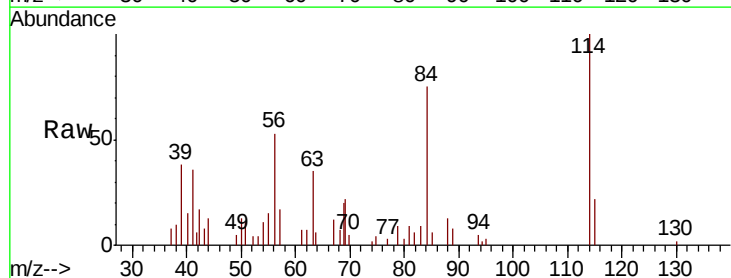
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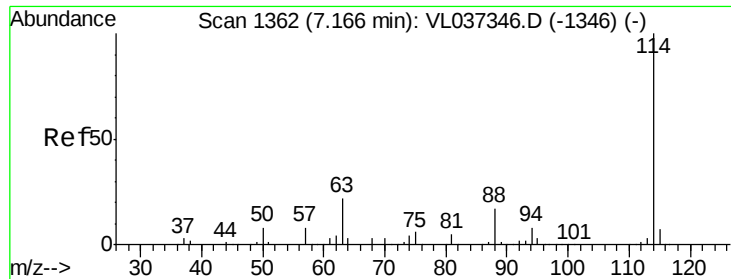
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#30
Cyclohexane
Concen: 0.162 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. 0.01 min
Lab File: VL037371.D
Acq: 7 Aug 2021 9:17

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





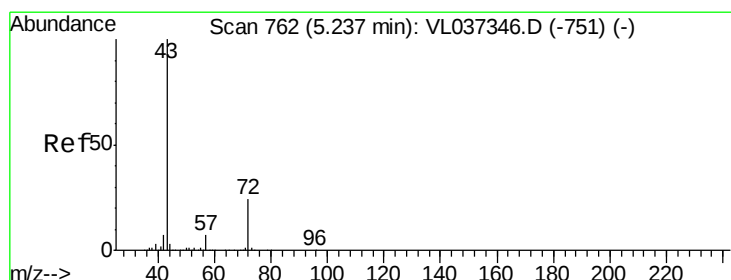
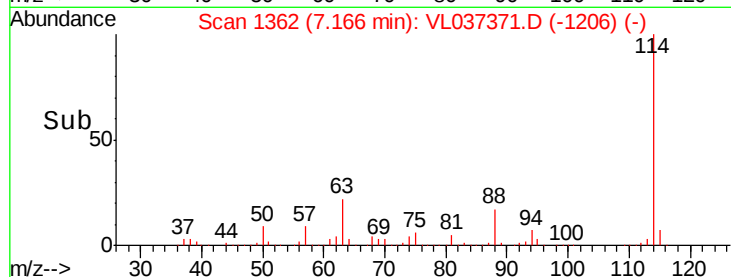
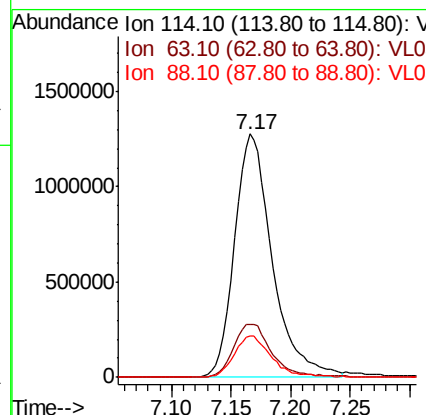
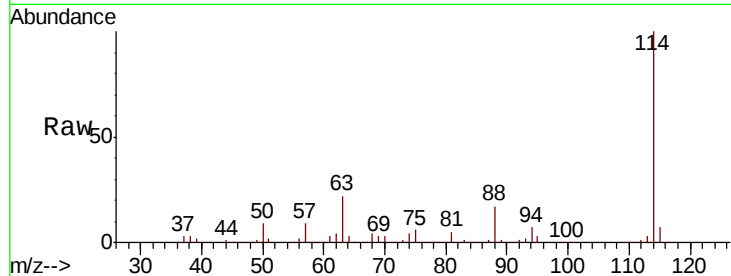
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VL037371.D
 Acq: 7 Aug 2021 9:17

Instrument :
 MSVOA_L
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 IA-BEDROOM-1RE

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	17.8	26.6
88	17.4	13.5	20.3

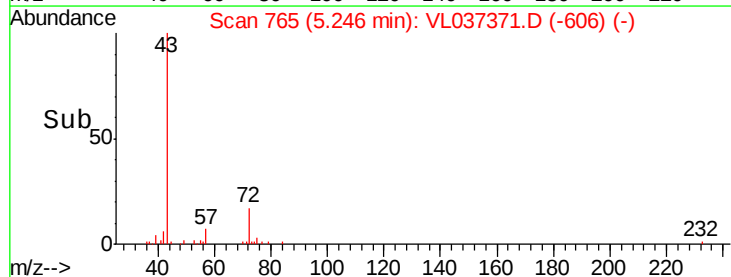
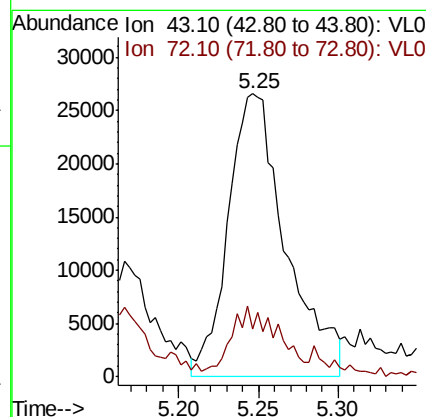
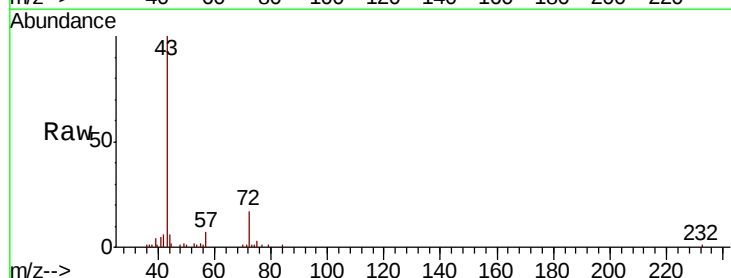
Manual Integrations
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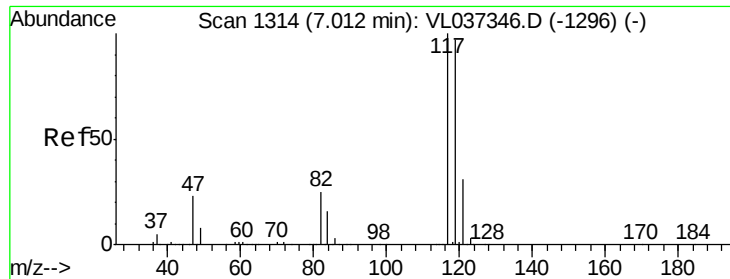
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#34
 2-Butanone
 Concen: 0.711 ppbv m
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL037371.D
 Acq: 7 Aug 2021 9:17

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.6	19.8	29.6





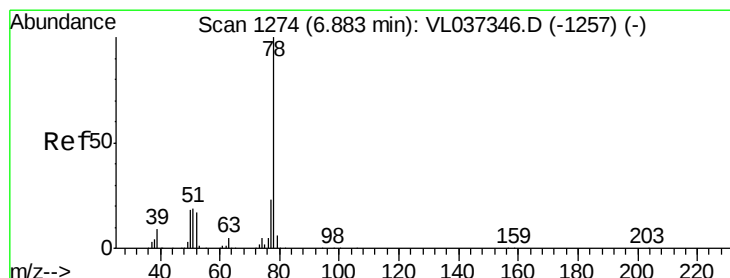
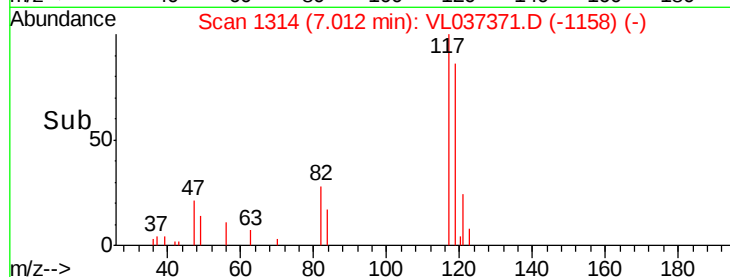
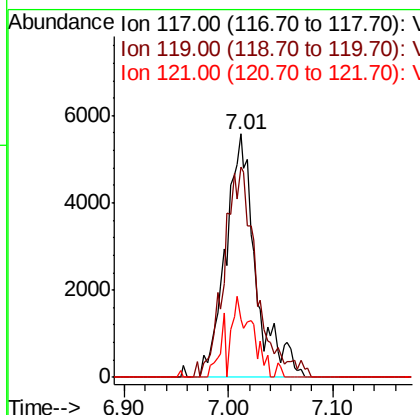
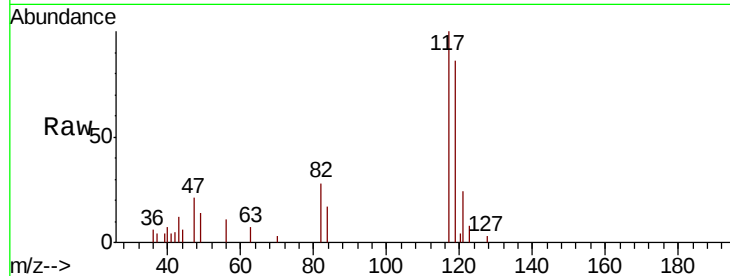
#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.00 min
Lab File: VL037371.D
Acq: 7 Aug 2021 9:17

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1RE

Tot Ion	Ratio	Lower	Upper
117	100		
119	86.3	77.8	116.8
121	23.6	24.6	36.8#

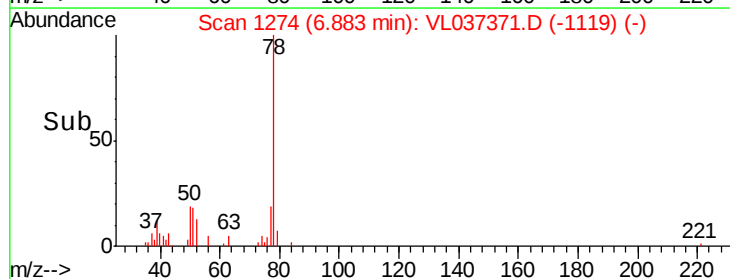
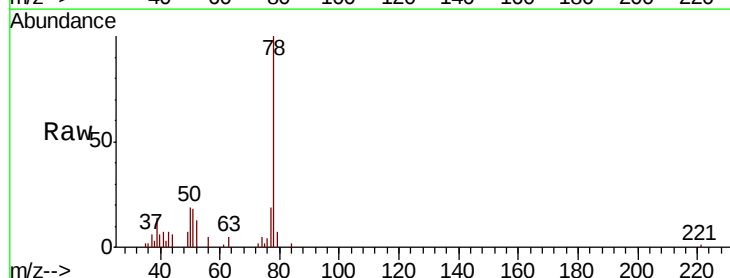
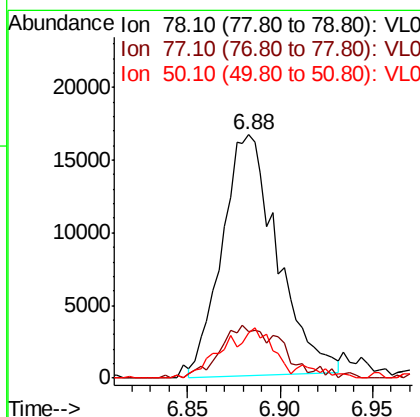
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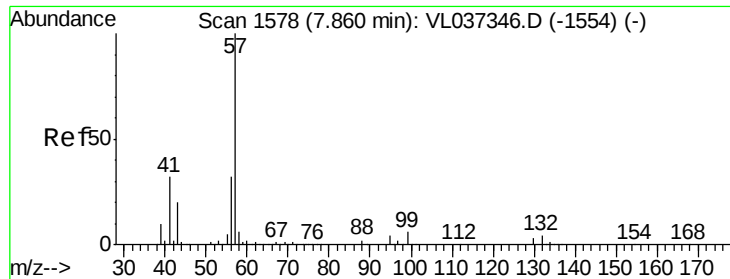
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#36
Benzene
Concen: 0.160 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.00 min
Lab File: VL037371.D
Acq: 7 Aug 2021 9:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.0	18.7	28.1
50	17.8	14.6	22.0





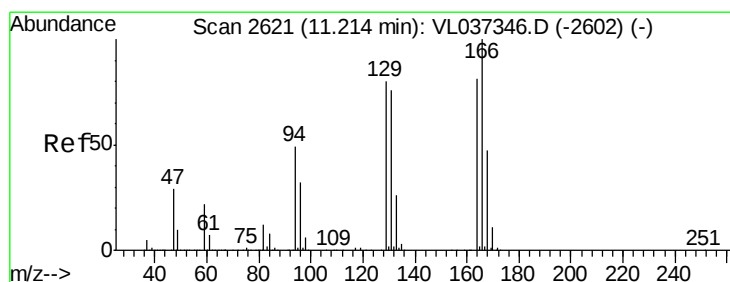
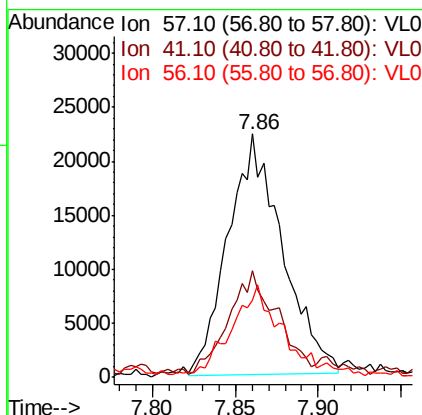
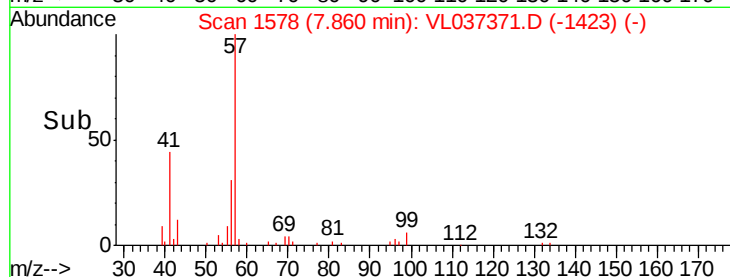
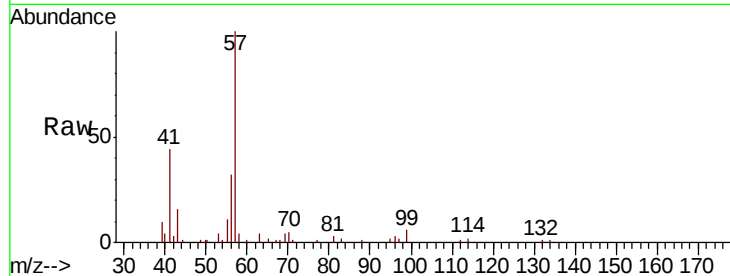
#44
 2,2,4-Trimethylpentane
 Concen: 0.141 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VL037371.D
 Acq: 7 Aug 2021 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1RE

Tot Ion	57	Resp	50676
Ion	Ratio	Lower	Upper
57	100		
41	42.9	26.1	39.1#
56	38.7	25.0	37.4#

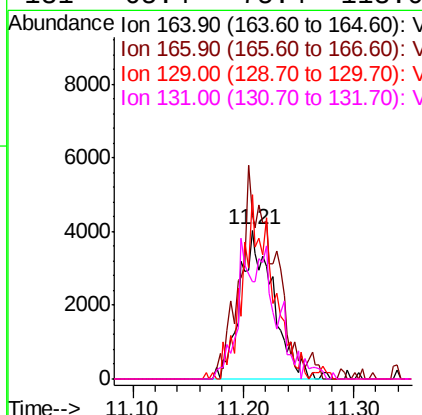
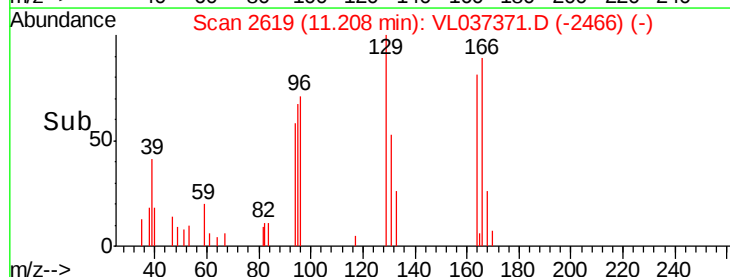
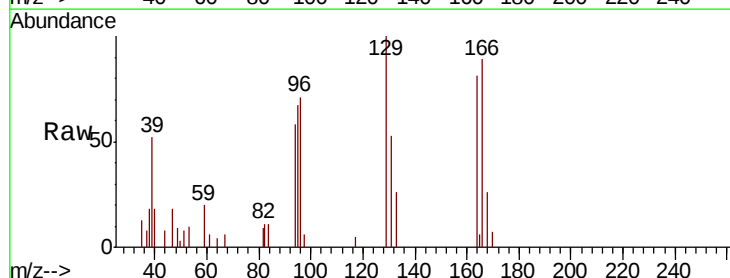
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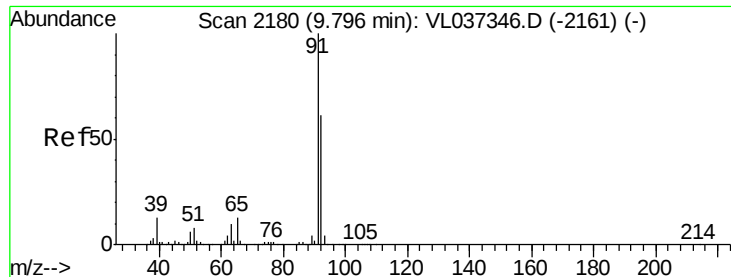
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#52
 Tetrachloroethene
 Concen: 0.082 ppbv m
 RT: 11.21 min Scan# 2619
 Delta R.T. -0.01 min
 Lab File: VL037371.D
 Acq: 7 Aug 2021 9:17

Tgt Ion	164	Resp	8458
Ion	Ratio	Lower	Upper
164	100		
166	110.3	99.4	149.0
129	123.4	79.2	118.8#
131	65.4	75.4	113.0#





#53

Toluene

Concen: 1.985 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1RE

Tot Ion: 91 Resp: 497931

Ion Ratio Lower Upper

91 100

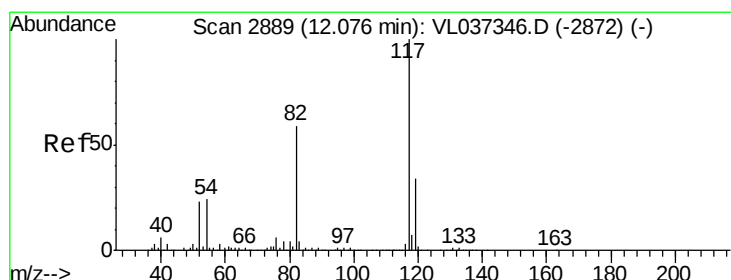
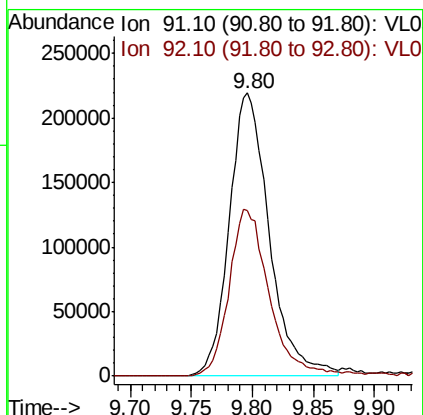
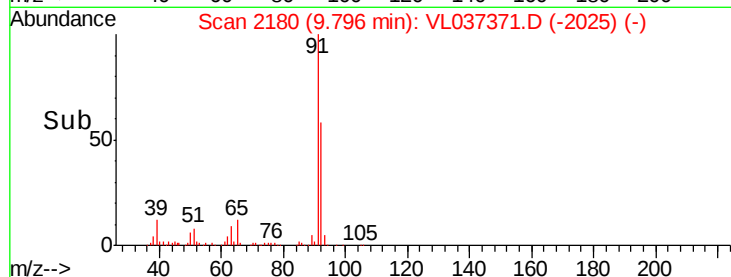
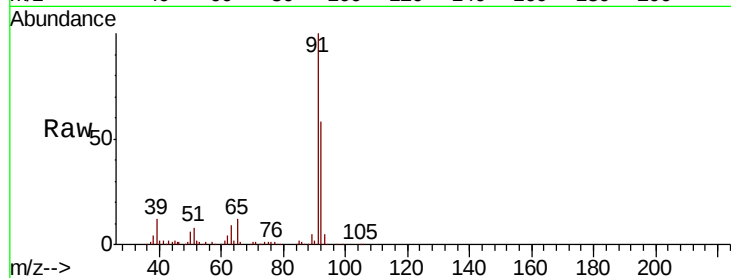
92 60.0 48.2 72.4

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL037371.D

Acq: 7 Aug 2021 9:17

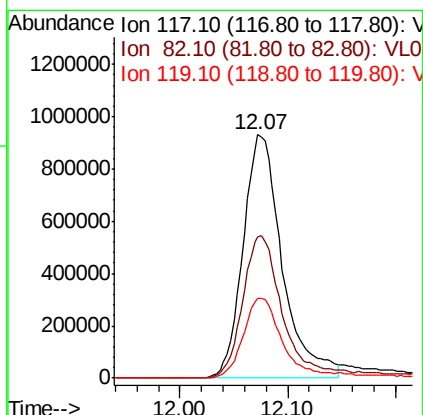
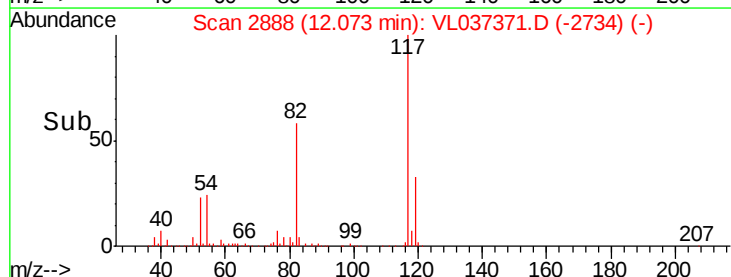
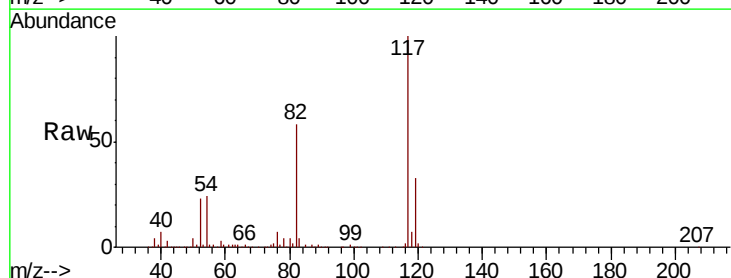
Tgt Ion: 117 Resp: 2348875

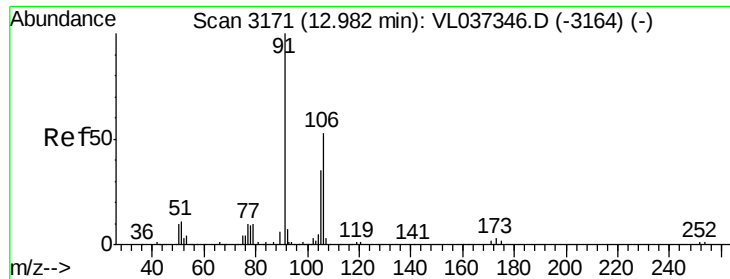
Ion Ratio Lower Upper

117 100

82 64.3 46.0 69.0

119 36.4 24.4 36.6





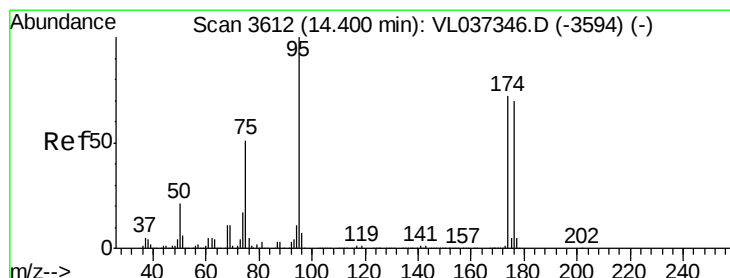
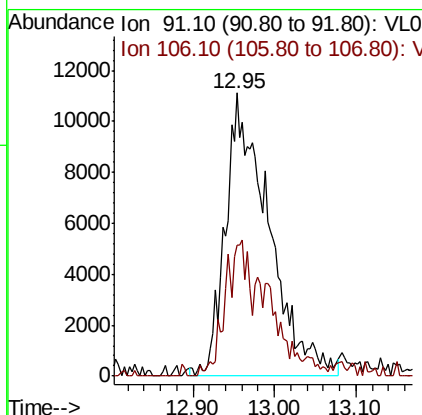
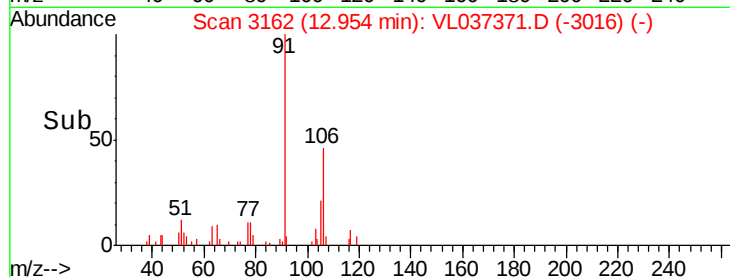
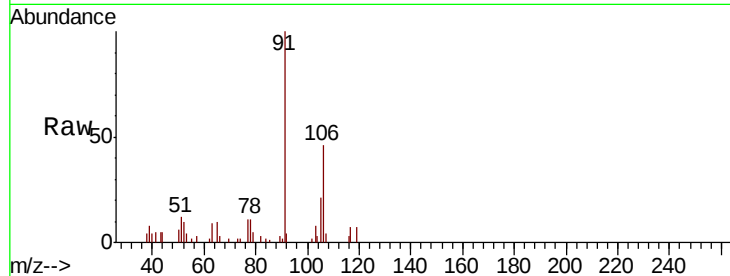
#59
m/p-Xylene
Concen: 0.152 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.03 min
Lab File: VL037371.D
Acq: 7 Aug 2021 9:17

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1RE

Tot Ion: 91 Resp: 40529
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.6#

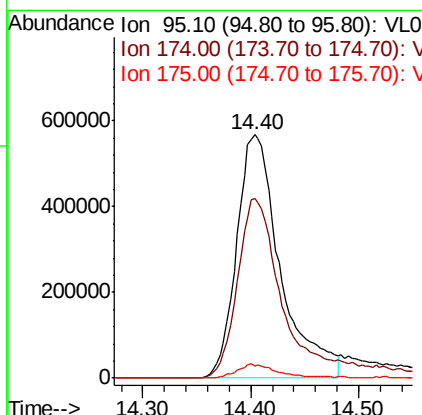
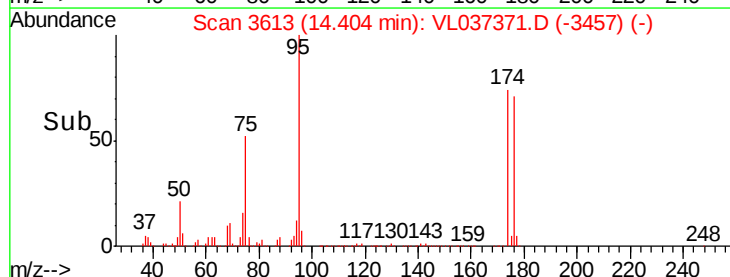
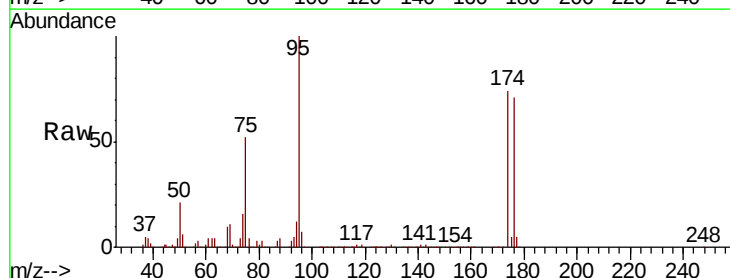
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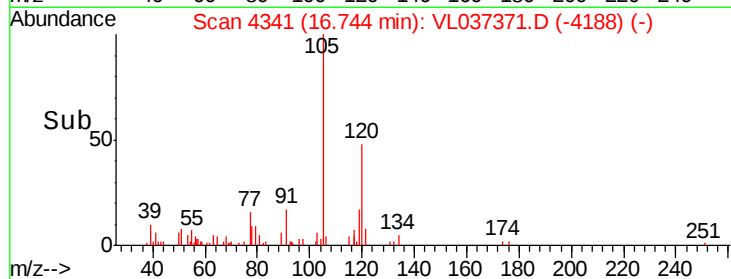
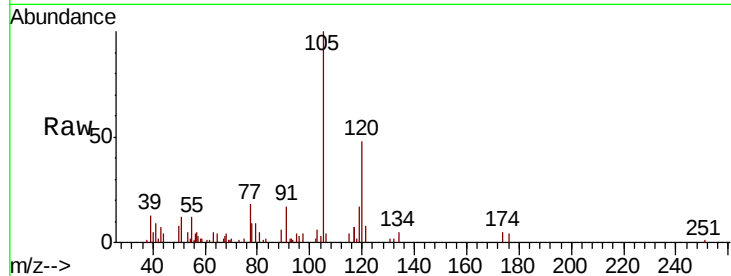
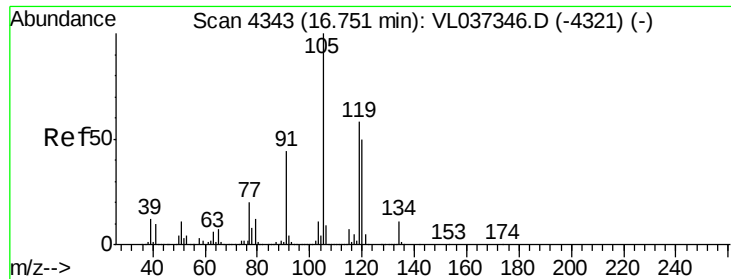
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.703 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. 0.00 min
Lab File: VL037371.D
Acq: 7 Aug 2021 9:17

Tgt Ion: 95 Resp: 1605566
Ion Ratio Lower Upper
95 100
174 82.7 60.8 91.2
175 5.7 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.133 ppbv m
 RT: 16.74 min Scan# 4341
 Delta R.T. -0.01 min
 Lab File: VL037371.D
 Acq: 7 Aug 2021 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1RE

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	48.0	39.7	59.5
91	16.9	35.0	52.6
77	18.4	16.1	24.1

Manual Integrations
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