

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037404.D
 Acq On : 12 Aug 2021 00:35
 Operator : SY/AP
 Sample : M3121-02RE
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-3RE

Manual Integrations
 APPROVED

apatel
 8/12/2021 10:17:28 AM

Quant Time: Aug 12 04:28:03 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 11 2021
 QLast Update : Wed Aug 11 09:01:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1226974	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3669788	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3101669	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2238279	9.68	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	43350	0.195	ppbv	93
3) Chlorodifluoromethane	2.99	51	379299m	1.663	ppbv	
4) Chloromethane	3.14	50	42904m	0.511	ppbv	
9) Propene	3.02	41	33156m	0.427	ppbv	
11) Trichlorofluoromethane	3.95	101	37817m	0.203	ppbv	
13) Ethanol	3.61	45	229082	24.435	ppbv	96
15) Acetone	3.85	43	696333	5.957	ppbv	98
19) Isopropyl Alcohol	3.98	45	157852m	2.345	ppbv	
20) Methylene Chloride	4.35	84	632889	9.970	ppbv	98
26) Hexane	5.69	57	466165	3.076	ppbv #	47
27) Carbon Disulfide	4.55	76	46236m	0.364	ppbv	
34) 2-Butanone	5.25	43	71194m	0.511	ppbv	
35) Carbon Tetrachloride	7.01	117	10672m	0.052	ppbv	
36) Benzene	6.89	78	70146m	0.241	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	99166	0.204	ppbv #	80
52) Tetrachloroethene	11.21	164	5391m	0.045	ppbv	
53) Toluene	9.80	91	299256	0.886	ppbv	99
59) m/p-Xylene	12.96	91	39317m	0.110	ppbv	

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

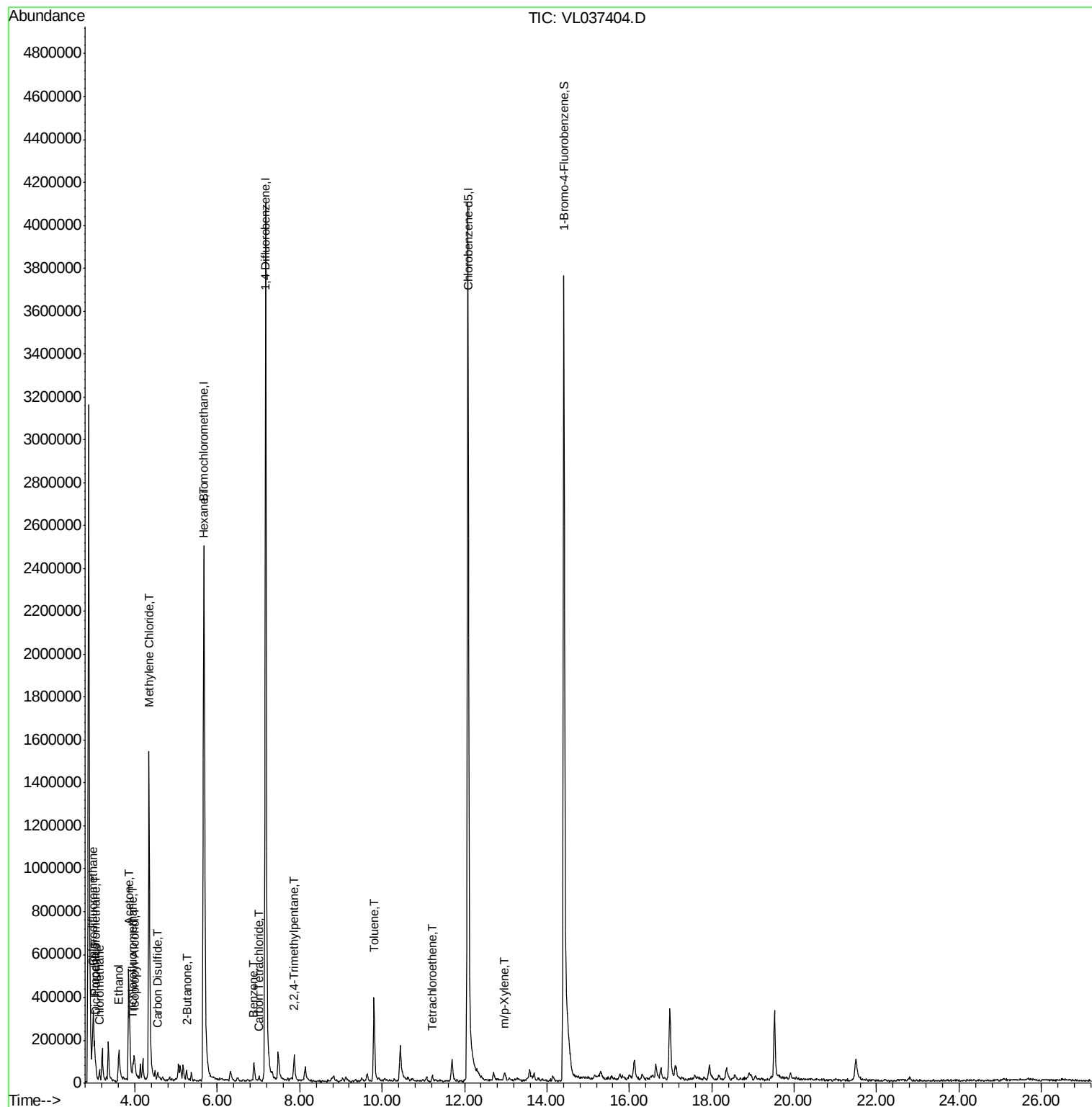
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
Data File : VL037404.D
Acq On : 12 Aug 2021 00:35
Operator : SY/AP
Sample : M3121-02RE
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

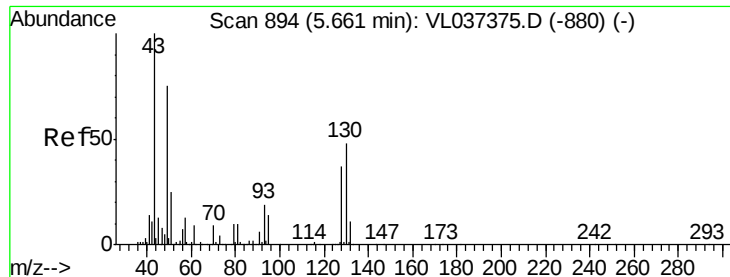
Instrument :
MSVOA_L
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IA-BEDROOM-3RE

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8/12/2021 10:17:28 AM

Quant Time: Aug 12 04:28:03 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 11 09:01:07 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037404.D

Acq: 12 Aug 2021 00:35

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3RE

Tot Ion: 49 Resp: 1226974

Ion Ratio Lower Upper

49 100

128 54.5 28.1 84.4

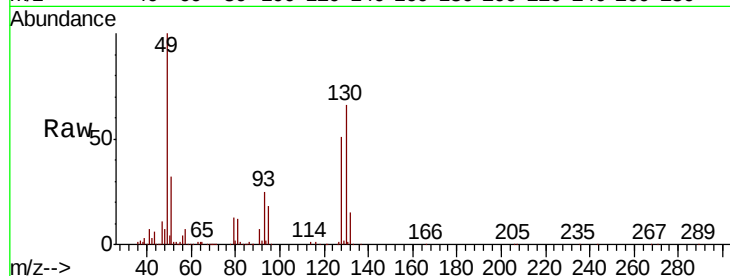
130 70.0 34.3 102.8

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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

800000

600000

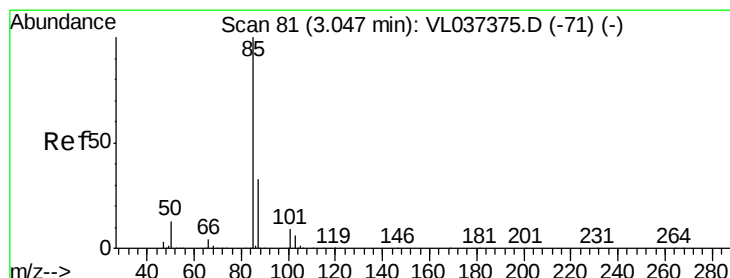
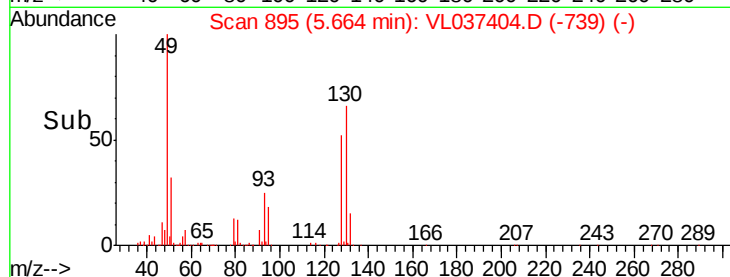
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.195 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037404.D

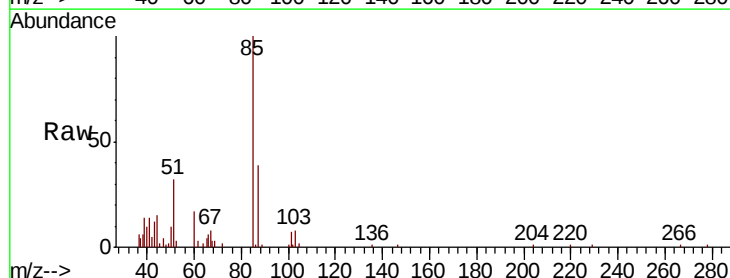
Acq: 12 Aug 2021 00:35

Tgt Ion: 85 Resp: 43350

Ion Ratio Lower Upper

85 100

87 37.1 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

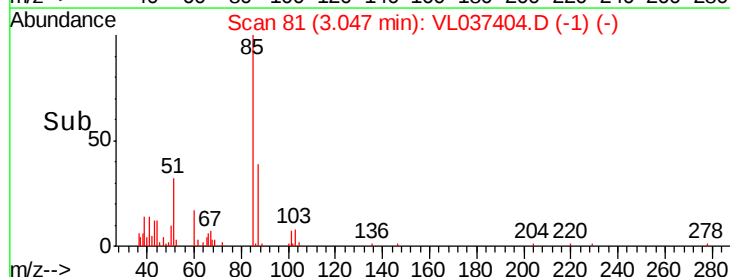
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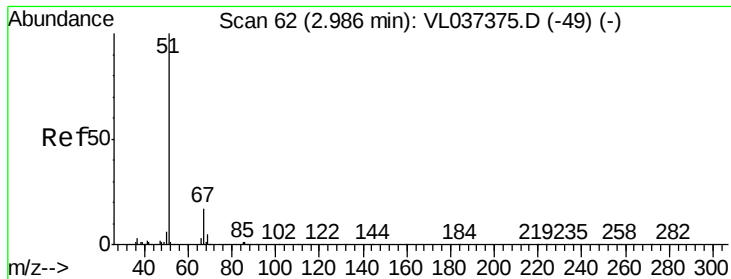
10000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 1.663 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL037404.D

Acq: 12 Aug 2021 00:35

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3RE

Tot Ion: 51 Resp: 379299

Ion Ratio Lower Upper

51 100

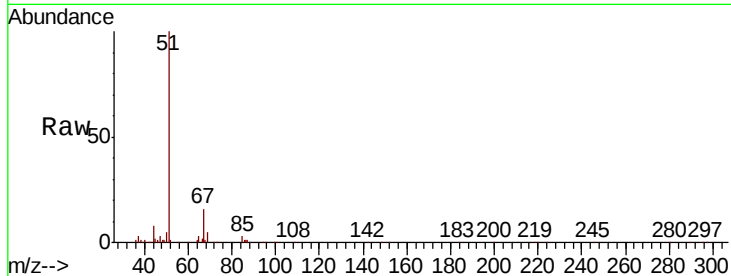
67 16.5 14.3 21.5

Manual Integrations

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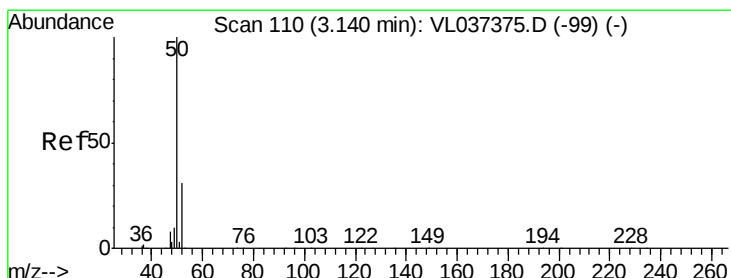
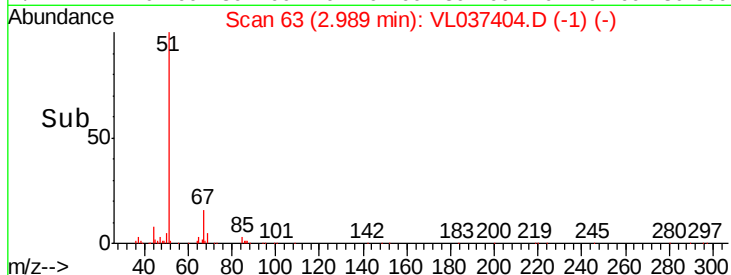
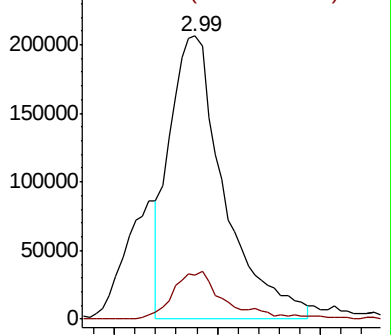
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.511 ppbv m

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL037404.D

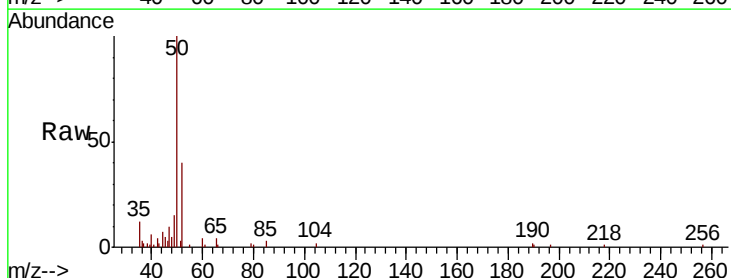
Acq: 12 Aug 2021 00:35

Tgt Ion: 50 Resp: 42904

Ion Ratio Lower Upper

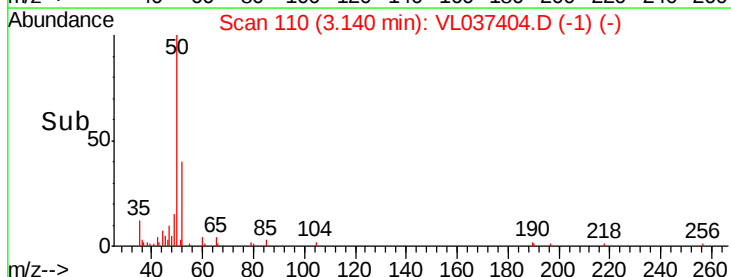
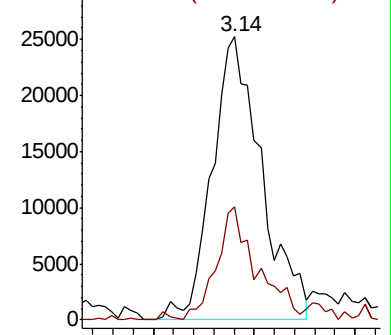
50 100

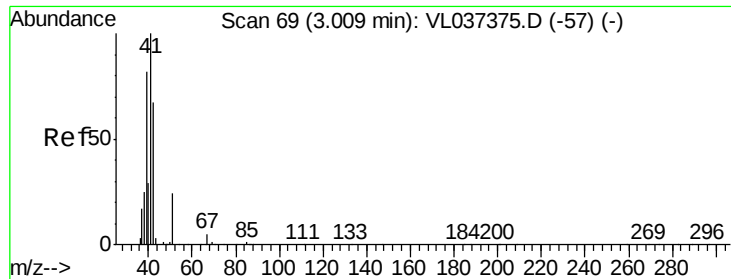
52 39.9 25.0 37.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.427 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037404.D

Acq: 12 Aug 2021 00:35

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3RE

Tot Ion: 41 Resp: 33156

Ion Ratio Lower Upper

41 100

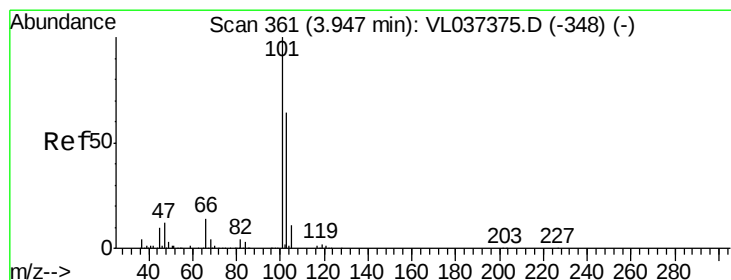
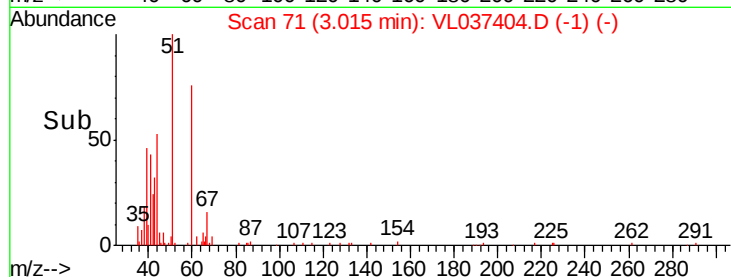
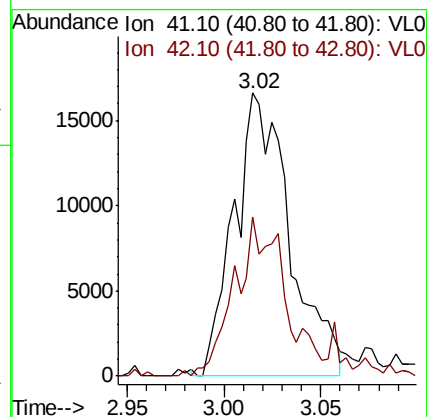
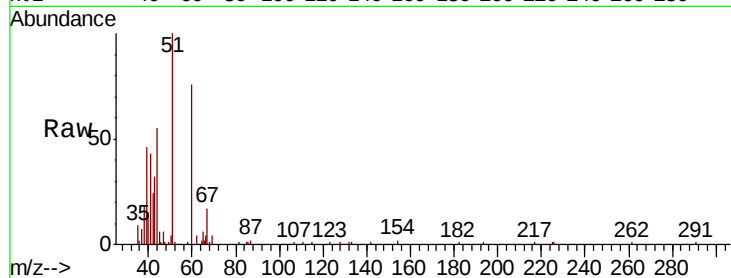
42 56.0 55.5 83.3

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#11

Trichlorofluoromethane

Concen: 0.203 ppbv m

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL037404.D

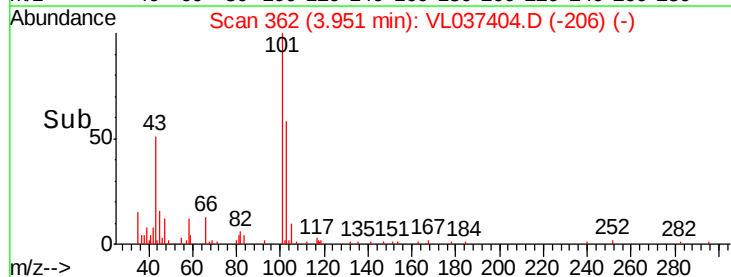
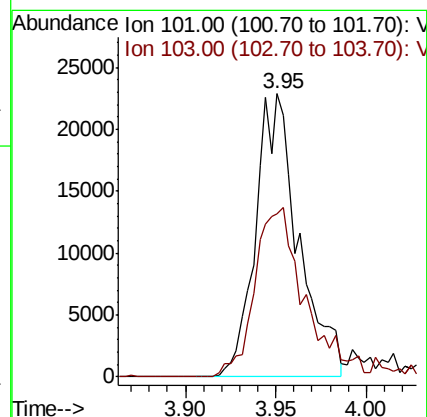
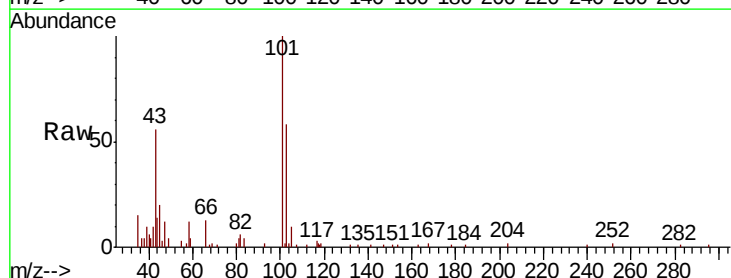
Acq: 12 Aug 2021 00:35

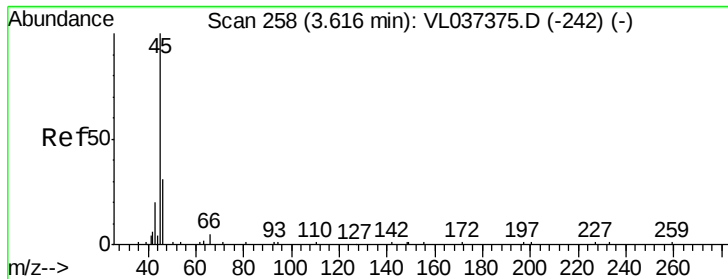
Tgt Ion: 101 Resp: 37817

Ion Ratio Lower Upper

101 100

103 57.5 51.2 76.8





#13

Ethanol

Concen: 24.435 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.01 min

Lab File: VL037404.D

Acq: 12 Aug 2021 00:35

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3RE

Tot Ion: 45 Resp: 229082

Ion Ratio Lower Upper

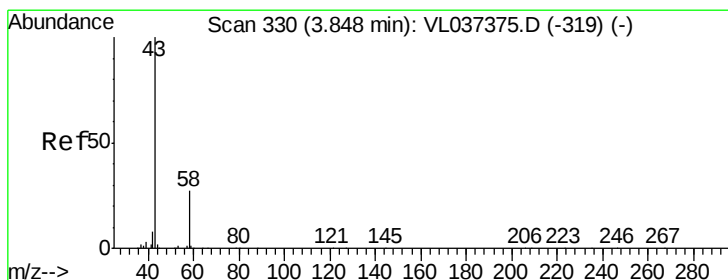
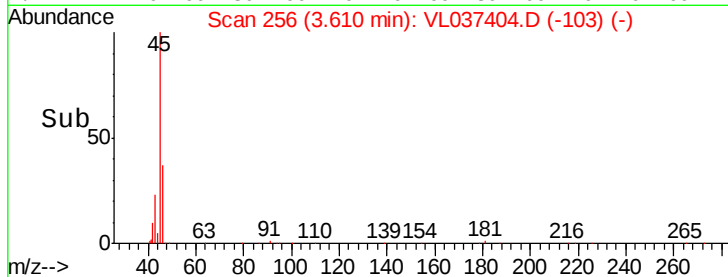
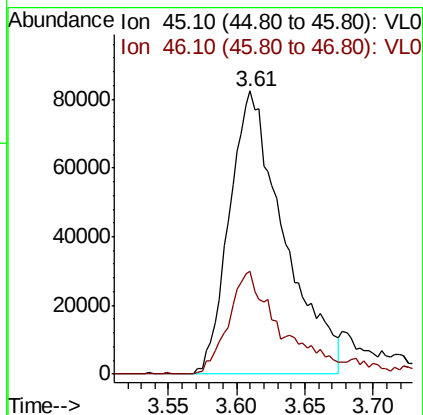
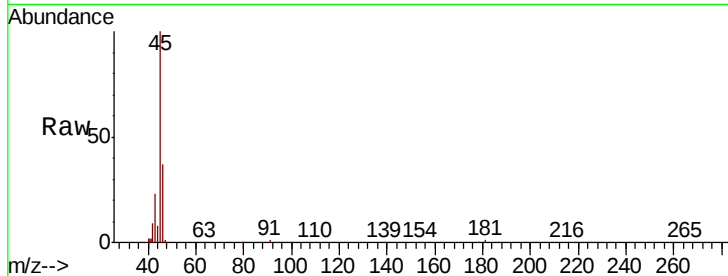
45 100

46 37.2 15.8 63.4

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#15

Acetone

Concen: 5.957 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL037404.D

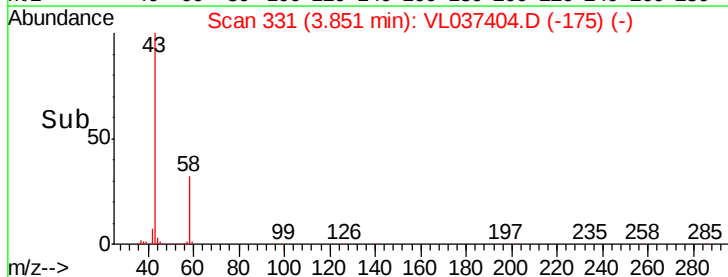
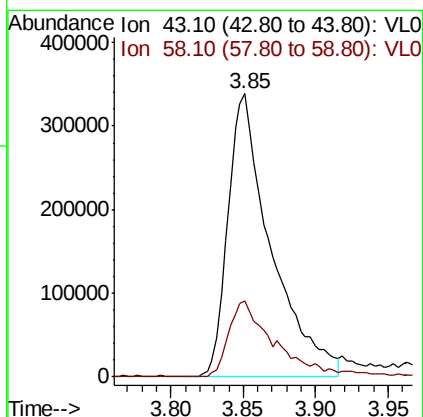
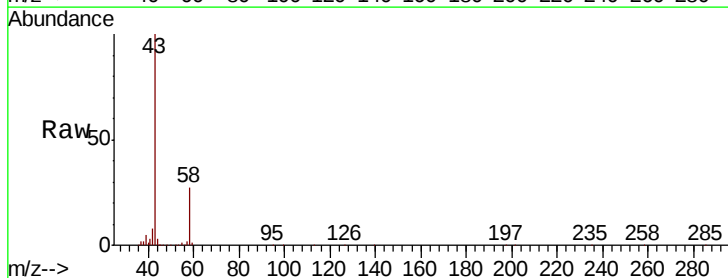
Acq: 12 Aug 2021 00:35

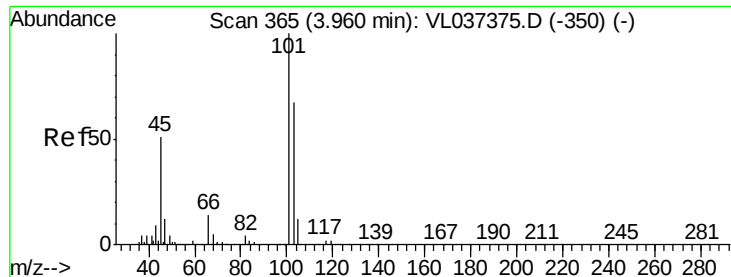
Tgt Ion: 43 Resp: 696333

Ion Ratio Lower Upper

43 100

58 29.6 24.6 37.0





#19

Isopropyl Alcohol

Concen: 2.345 ppbv m

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL037404.D

Acq: 12 Aug 2021 00:35

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3RE

Tot Ion: 45 Resp: 157852

Ion Ratio Lower Upper

45 100

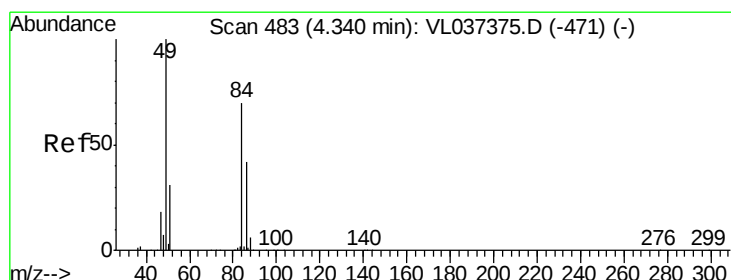
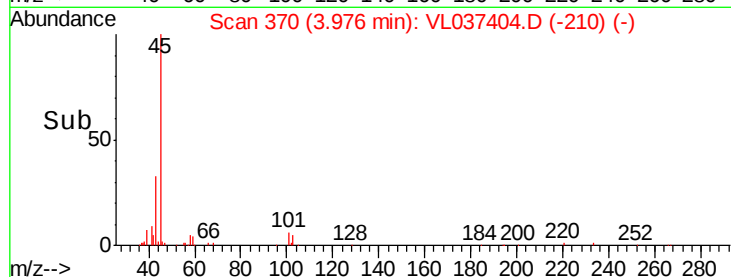
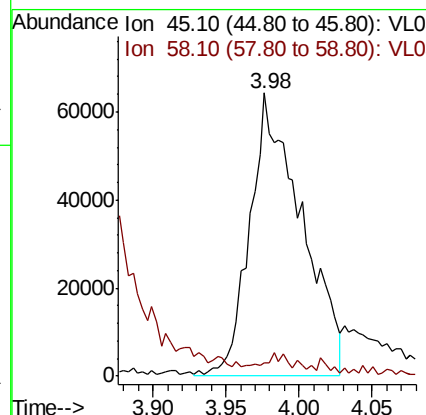
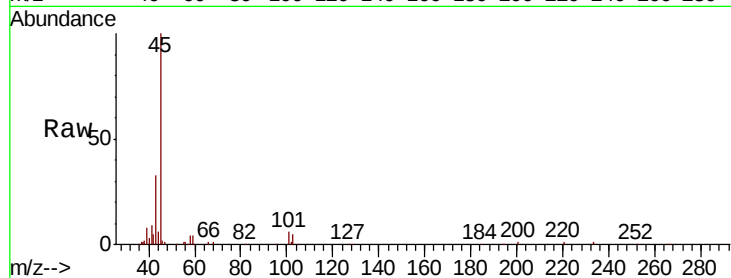
58 4.6 38.7 58.1#

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#20

Methylene Chloride

Concen: 9.970 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL037404.D

Acq: 12 Aug 2021 00:35

Tgt Ion: 84 Resp: 632889

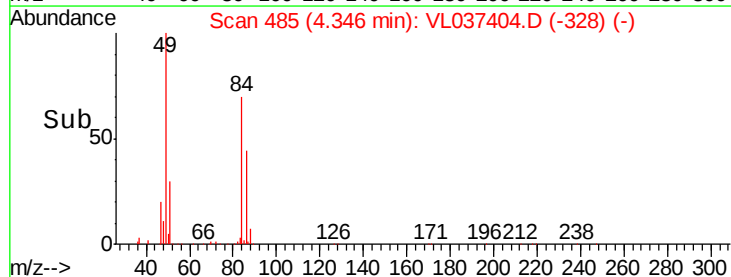
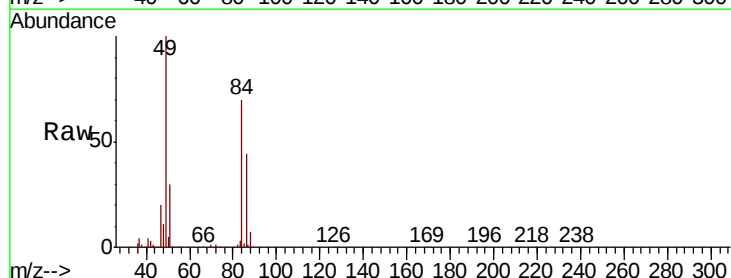
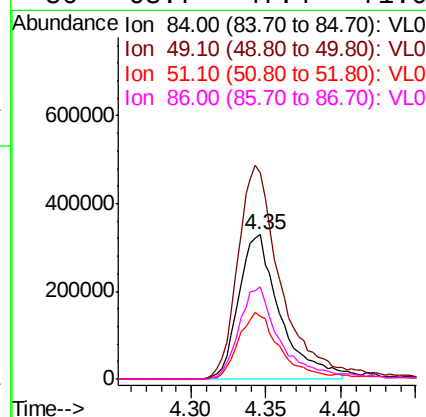
Ion Ratio Lower Upper

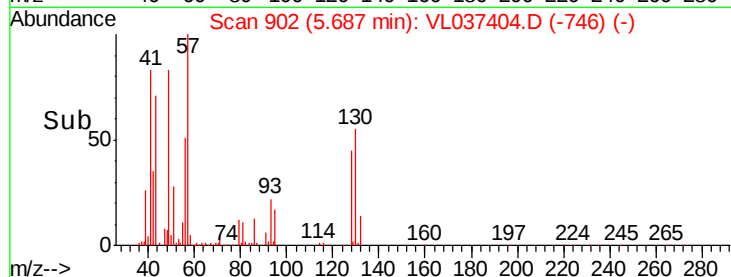
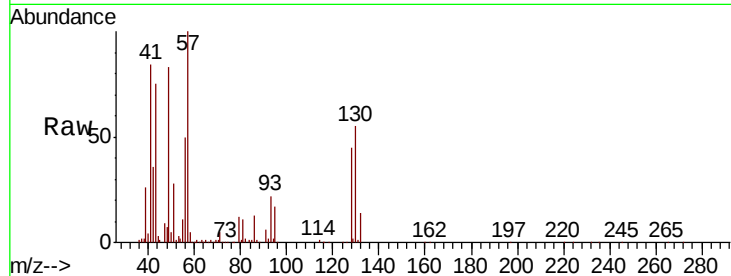
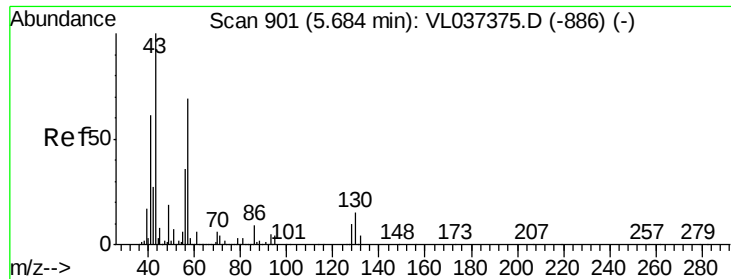
84 100

49 143.1 113.8 170.6

51 43.3 34.7 52.1

86 63.7 47.4 71.0





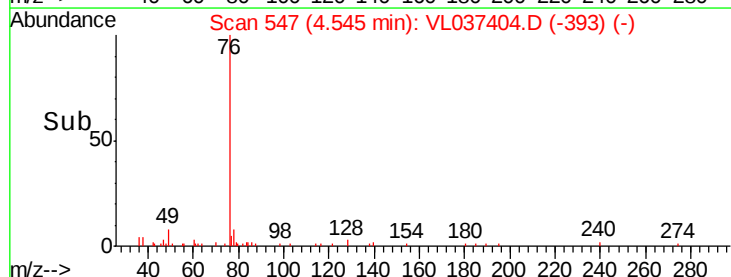
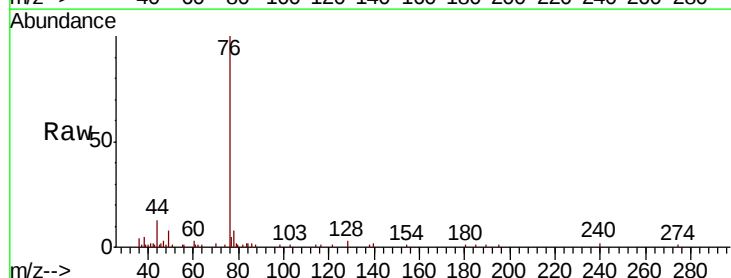
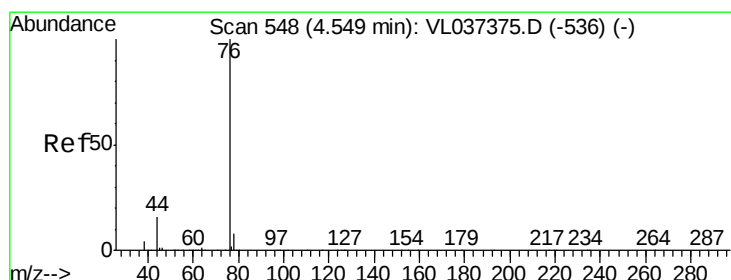
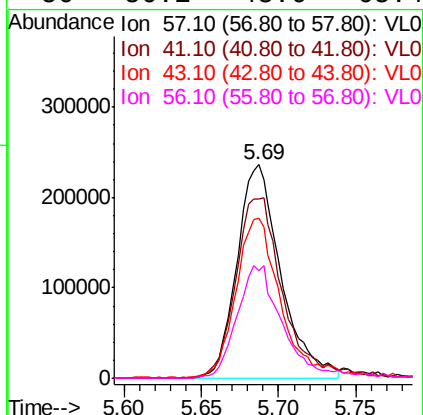
#26
Hexane
Concen: 3.076 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL037404.D
Acq: 12 Aug 2021 00:35

Tot Ion	Ratio	Lower	Upper
57	100		
41	91.9	73.4	110.0
43	78.2	174.4	261.6#
56	56.1	43.6	65.4

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3RE

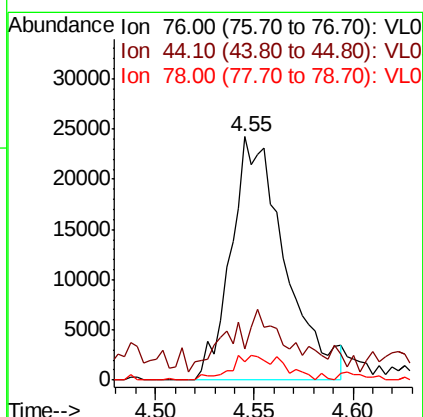
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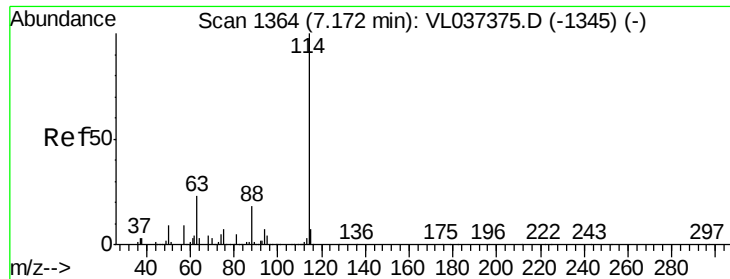
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#27
Carbon Disulfide
Concen: 0.364 ppbv m
RT: 4.55 min Scan# 547
Delta R.T. -0.00 min
Lab File: VL037404.D
Acq: 12 Aug 2021 00:35

Tgt Ion	Ratio	Lower	Upper
76	100		
44	63.8	13.7	20.5#
78	0.0	7.7	11.5#





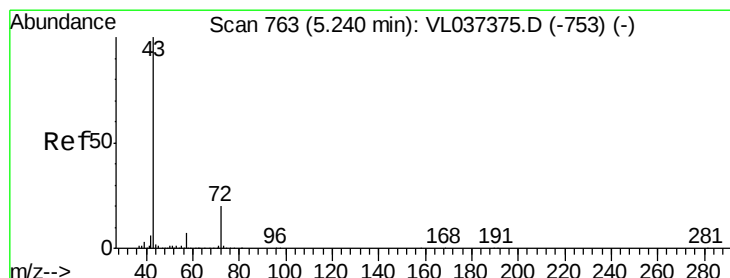
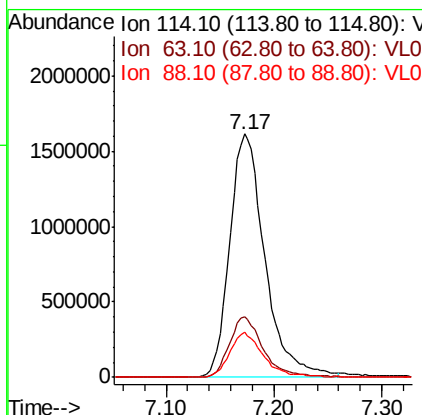
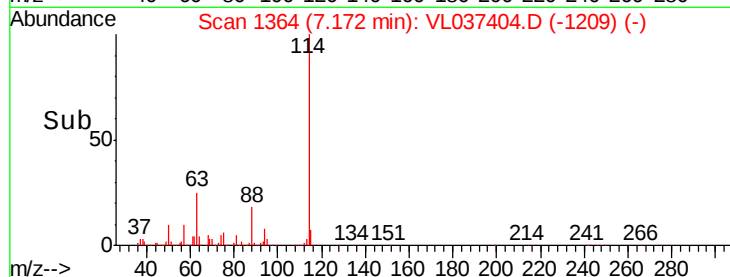
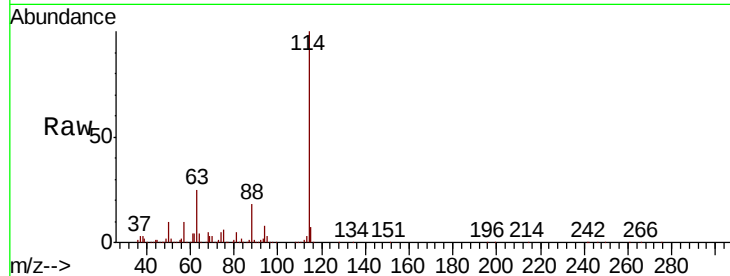
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VL037404.D
 Acq: 12 Aug 2021 00:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-3RE

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.5	29.3
88	18.0	14.3	21.5

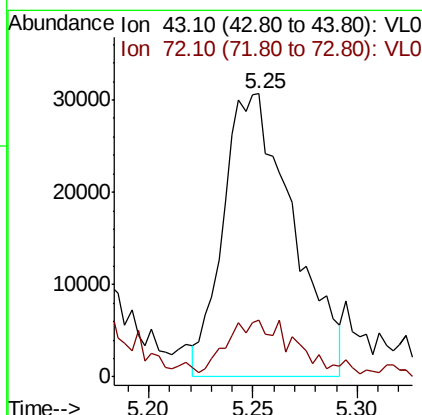
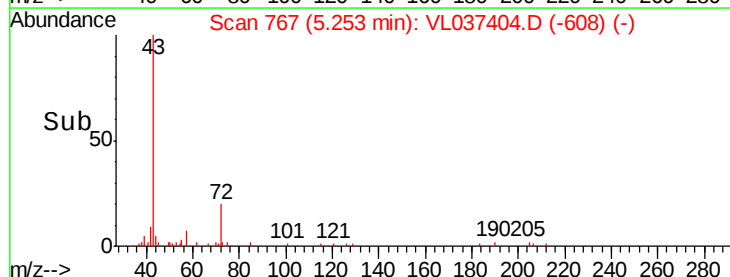
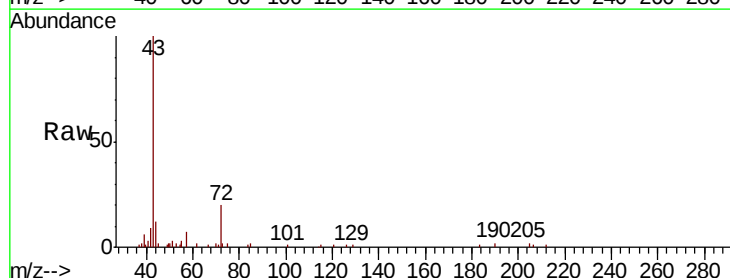
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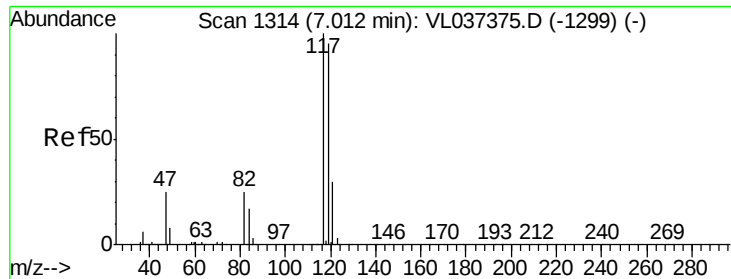
apatel
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#34
 2-Butanone
 Concen: 0.511 ppbv m
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL037404.D
 Acq: 12 Aug 2021 00:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.6	29.4#





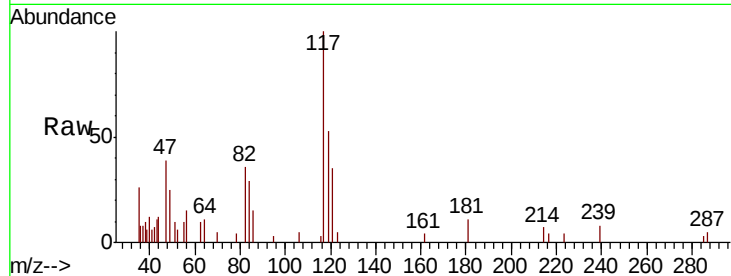
#35
Carbon Tetrachloride
Concen: 0.052 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VL037404.D
Acq: 12 Aug 2021 00:35

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3RE

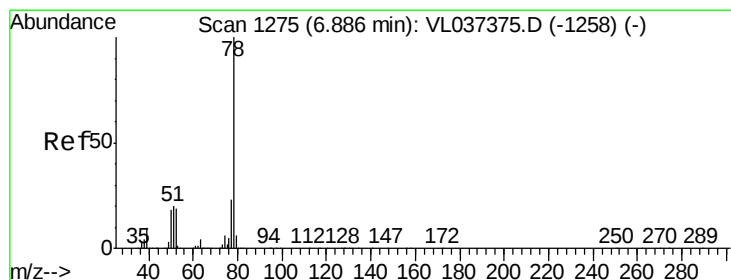
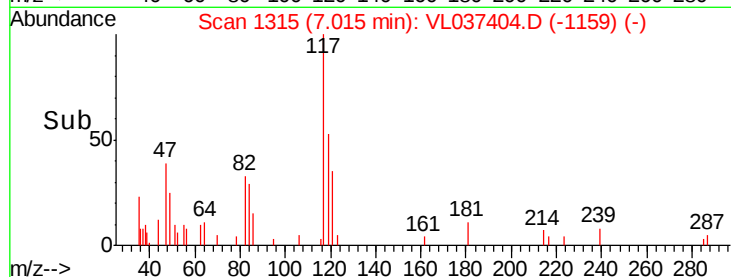
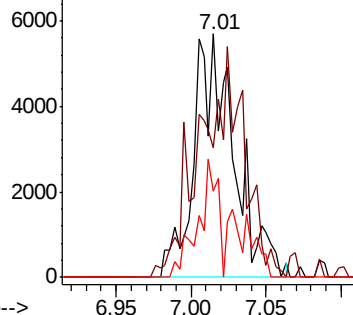
Tot Ion	Ratio	Lower	Upper
117	100		
119	53.4	76.1	114.1#
121	35.5	24.4	36.6

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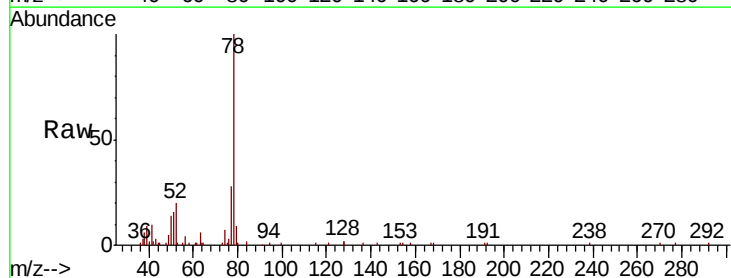


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

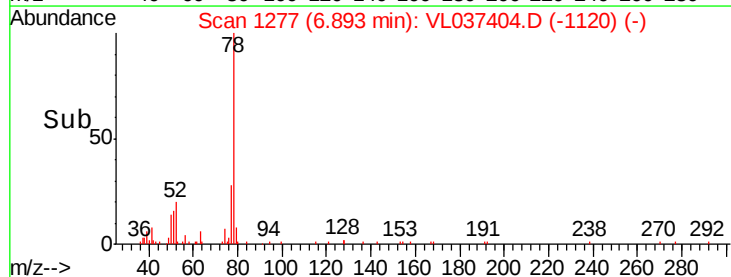
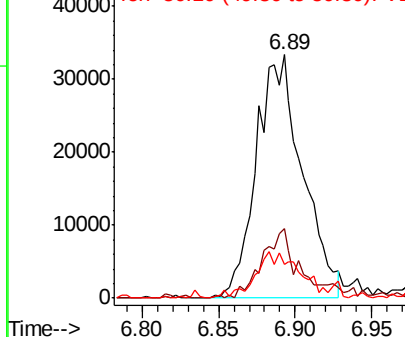


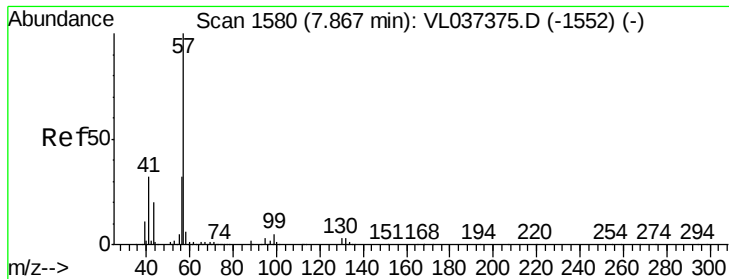
#36
Benzene
Concen: 0.241 ppbv m
RT: 6.89 min Scan# 1277
Delta R.T. 0.01 min
Lab File: VL037404.D
Acq: 12 Aug 2021 00:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.4	18.6	28.0#
50	13.9	14.3	21.5#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





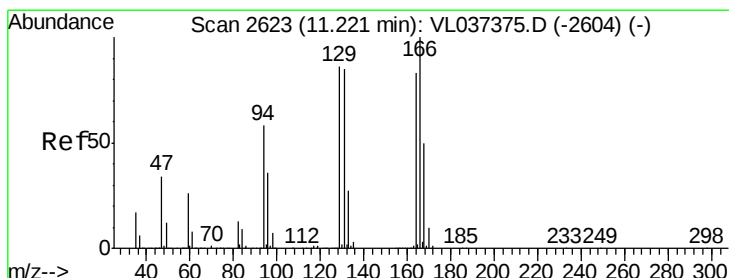
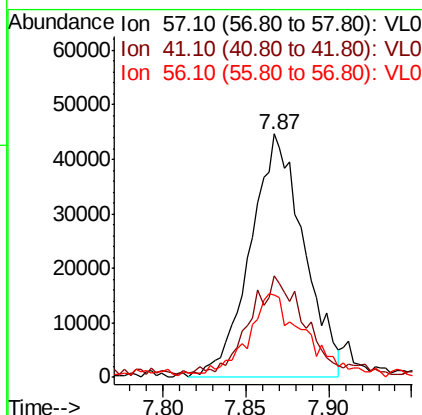
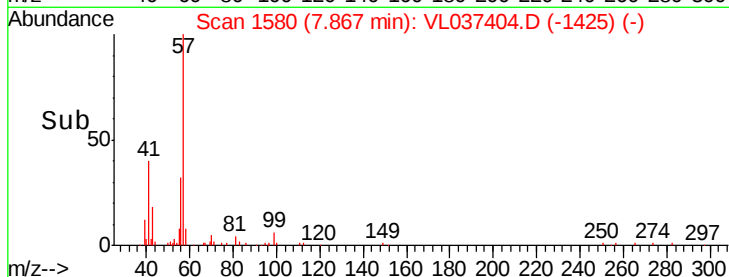
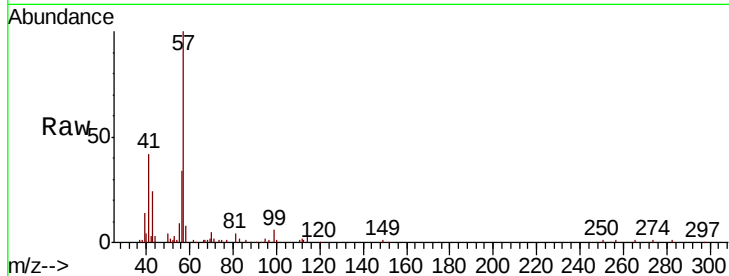
#44
 2,2,4-Trimethylpentane
 Concen: 0.204 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VL037404.D
 Acq: 12 Aug 2021 00:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-3RE

Tot Ion	Ratio	Lower	Upper
57	100		
41	47.1	26.1	39.1#
56	38.7	25.1	37.7#

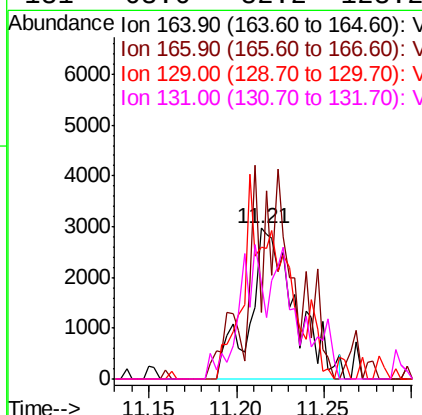
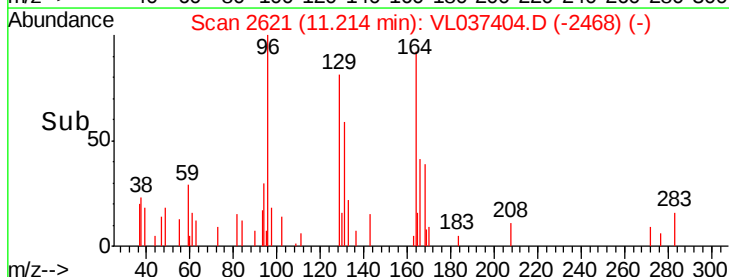
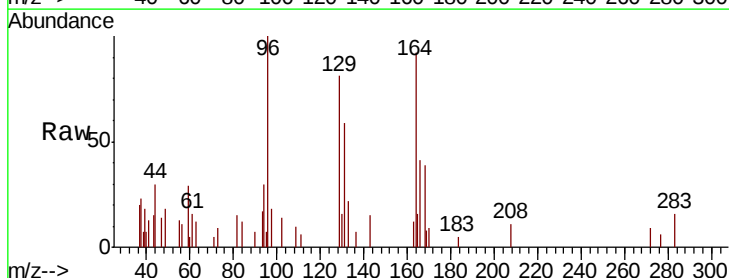
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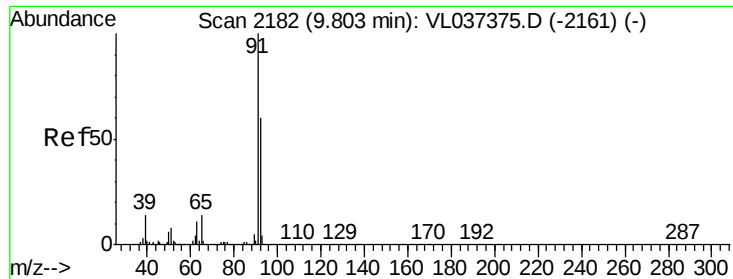
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#52
 Tetrachloroethene
 Concen: 0.045 ppbv m
 RT: 11.21 min Scan# 2621
 Delta R.T. -0.01 min
 Lab File: VL037404.D
 Acq: 12 Aug 2021 00:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	44.0	96.5	144.7#
129	87.8	83.2	124.8
131	63.6	82.2	123.2#





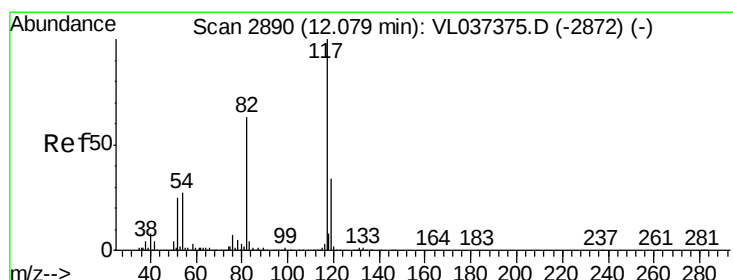
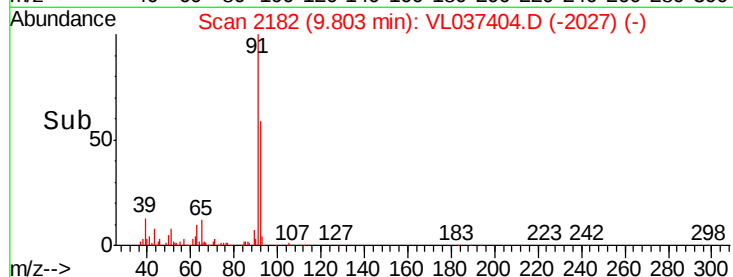
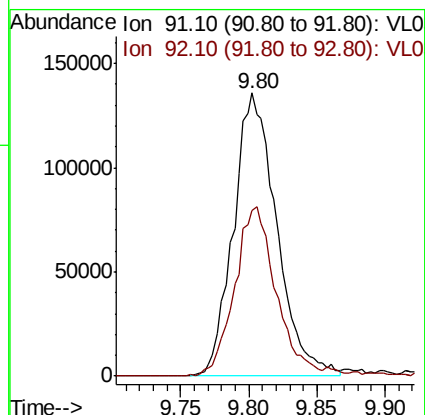
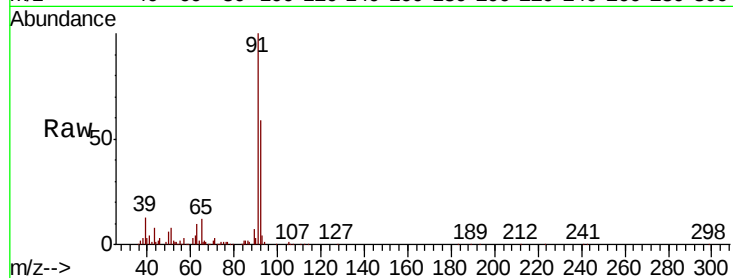
#53
Toluene
Concen: 0.886 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. -0.00 min
Lab File: VL037404.D
Acq: 12 Aug 2021 00:35

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3RE

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.1	72.1

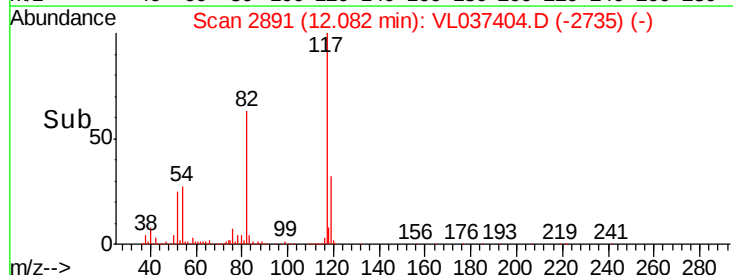
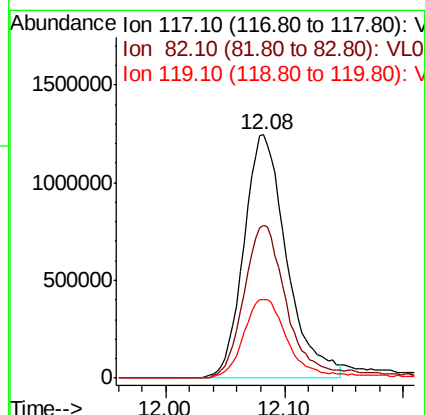
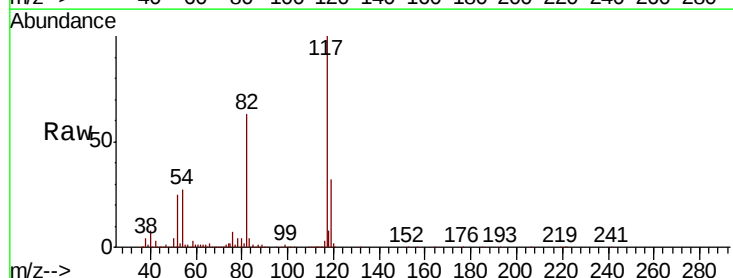
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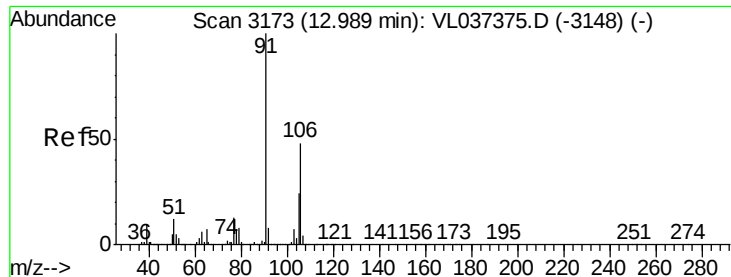
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL037404.D
Acq: 12 Aug 2021 00:35

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.4	52.6	78.8
119	35.5	46.7	70.1#





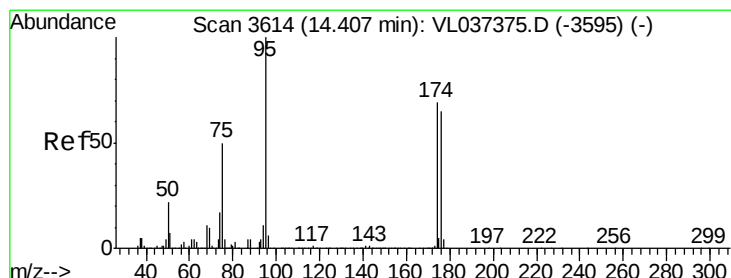
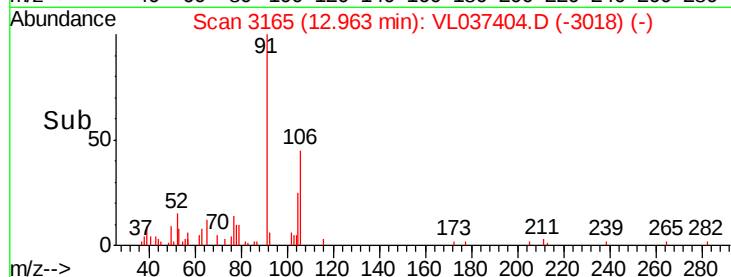
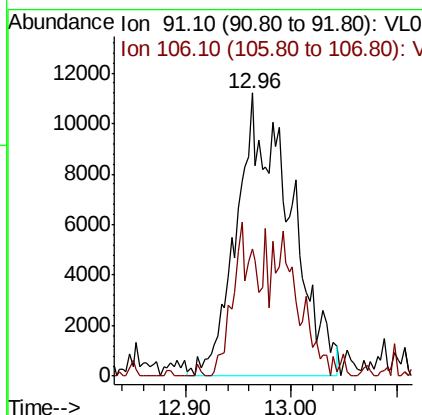
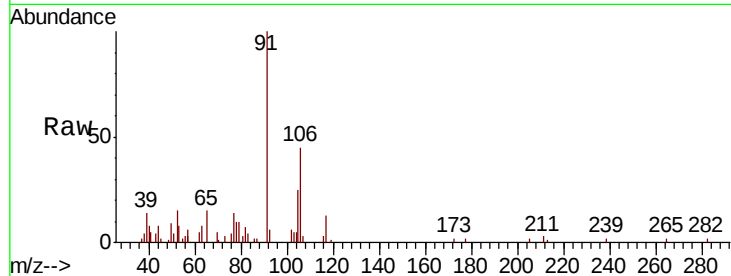
#59
m/p-Xylene
Concen: 0.110 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.03 min
Lab File: VL037404.D
Acq: 12 Aug 2021 00:35

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3RE

Tot Ion: 91 Resp: 39317
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

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#68
1-Bromo-4-Fluorobenzene
Concen: 9.677 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.01 min
Lab File: VL037404.D
Acq: 12 Aug 2021 00:35

Tgt Ion: 95 Resp: 2238279
Ion Ratio Lower Upper
95 100
174 76.0 58.3 87.5
175 5.8 4.3 6.5

