

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037201.D
 Acq On : 17 Jun 2021 14:43
 Operator : SY/AP
 Sample : M2721-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAYROOM-2DL

Manual Integrations
 APPROVED

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 6/21/2021 12:53:59 PM

Quant Time: Jun 19 17:13:36 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 14:06:32 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	1421272	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4134673	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3661706	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2824738	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	27180	0.110	ppbv	98
4) Chloromethane	3.14	50	14023m	0.152	ppbv	
13) Ethanol	3.61	45	634850m	46.443	ppbv	
15) Acetone	3.85	43	902444m	5.631	ppbv	
17) tert-Butyl alcohol	4.31	59	139941m	0.945	ppbv	
19) Isopropyl Alcohol	3.98	45	142953	1.473	ppbv #	1
20) Methylene Chloride	4.35	84	530151	5.525	ppbv	95
25) Ethyl Acetate	5.68	43	1444582	4.163	ppbv #	96
26) Hexane	5.69	57	892562	5.090	ppbv	84
30) Cyclohexane	7.13	84	85898m	0.588	ppbv	
34) 2-Butanone	5.25	43	159893	0.994	ppbv #	87
53) Toluene	9.81	91	302091	0.756	ppbv	99
58) Ethyl Benzene	12.71	91	76378	0.152	ppbv #	81
59) m/p-Xylene	12.97	91	232892m	0.545	ppbv	
60) o-Xylene	13.70	91	104259	0.256	ppbv	100
61) Styrene	13.53	104	1388699	6.615	ppbv	96
72) 4-Ethyltoluene	15.84	105	62886m	0.136	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	74335m	0.166	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	199387	0.433	ppbv #	75

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

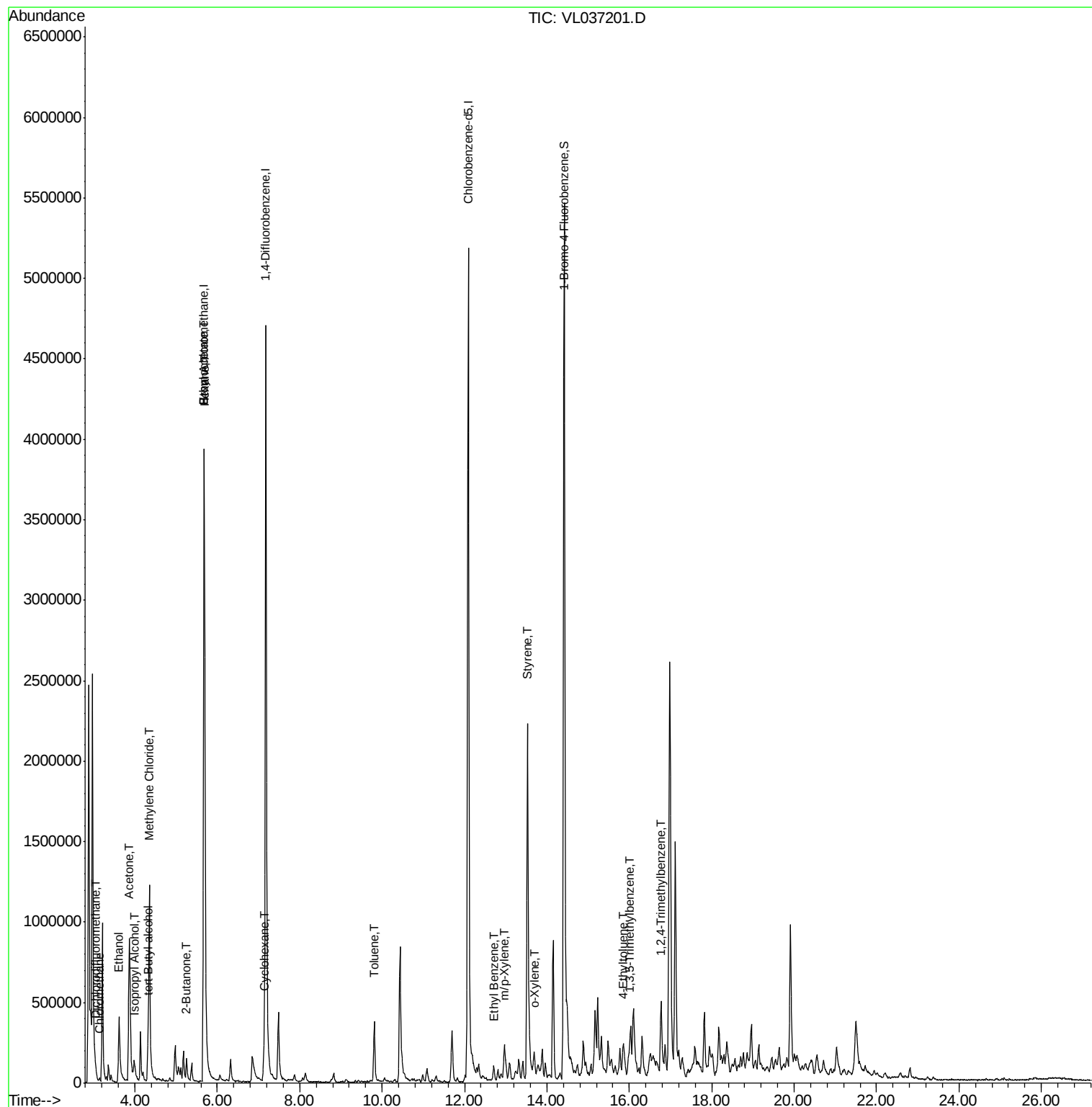
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037201.D
Acq On : 17 Jun 2021 14:43
Operator : SY/AP
Sample : M2721-02DL 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

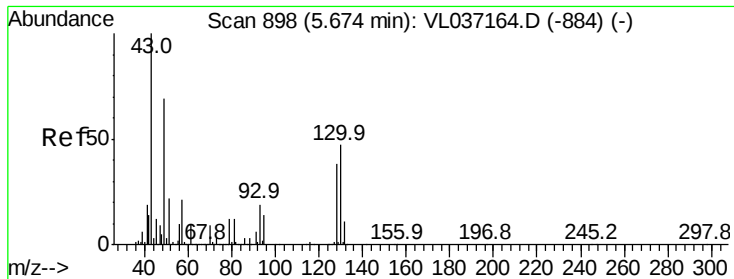
Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-2DL

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Quant Time: Jun 19 17:13:36 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# 897

Delta R.T. -0.00 min

Lab File: VL037201.D

Acq: 17 Jun 2021 14:43

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAYROOM-2DL

Tot Ion: 49 Resp: 1421272

Ion Ratio Lower Upper

49 100

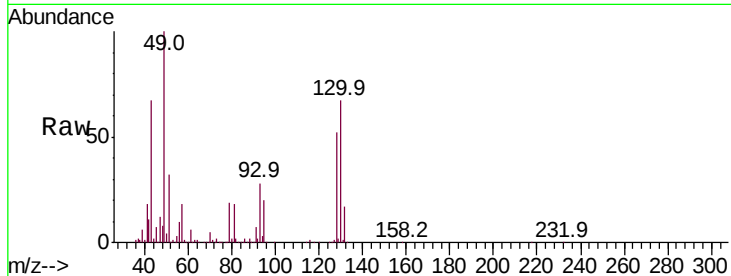
128 56.0 29.3 88.0

130 72.2 35.9 107.8

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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

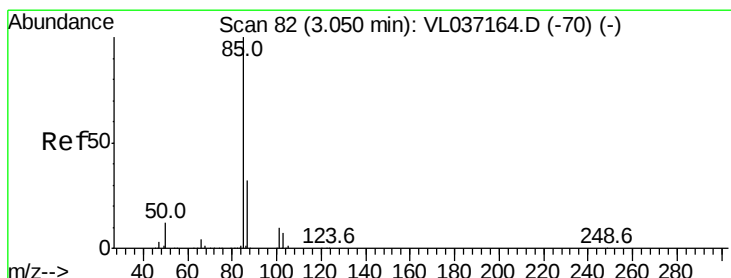
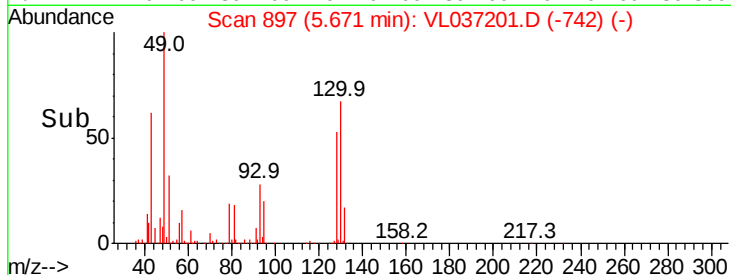
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.110 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL037201.D

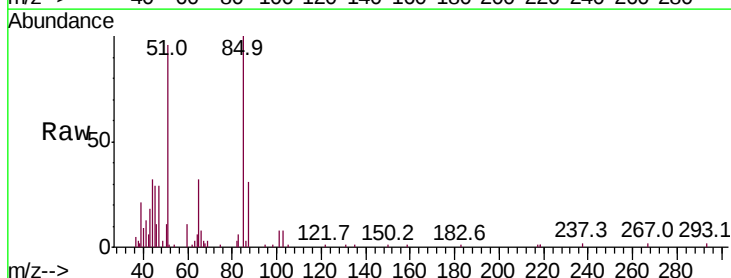
Acq: 17 Jun 2021 14:43

Tgt Ion: 85 Resp: 27180

Ion Ratio Lower Upper

85 100

87 30.9 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

20000

15000

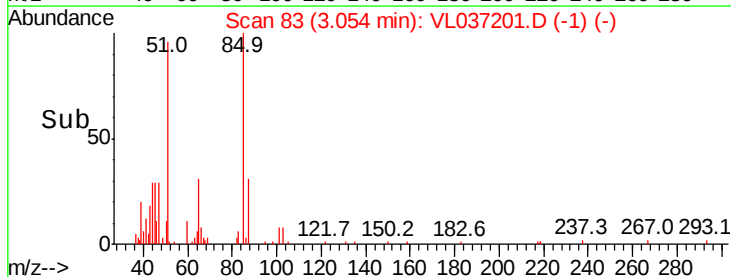
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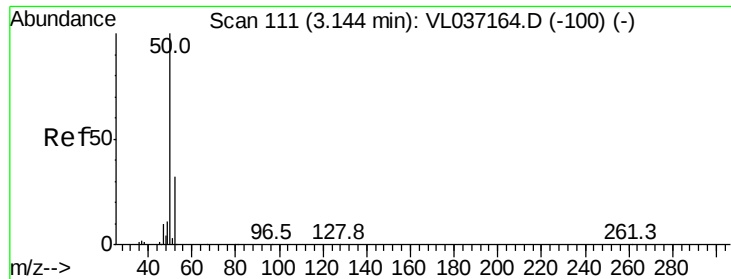
5000

0

3.02 3.04 3.06 3.08

Time-->





#4

Chloromethane

Concen: 0.152 ppbv m

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037201.D

Acq: 17 Jun 2021 14:43

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAYROOM-2DL

Tot Ion: 50 Resp: 14023

Ion Ratio Lower Upper

50 100

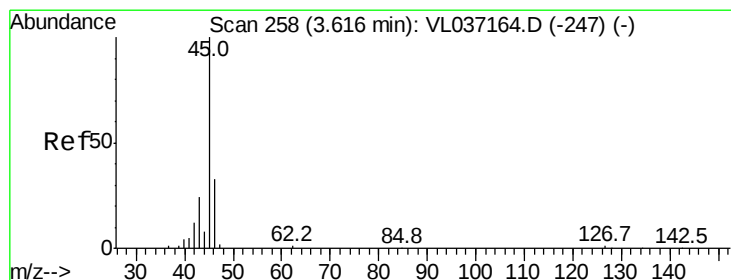
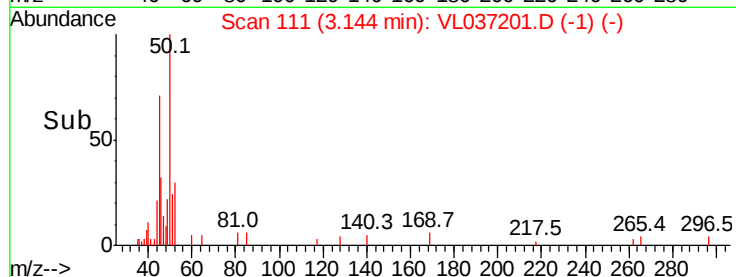
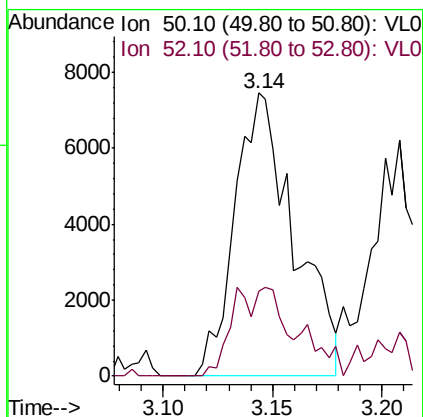
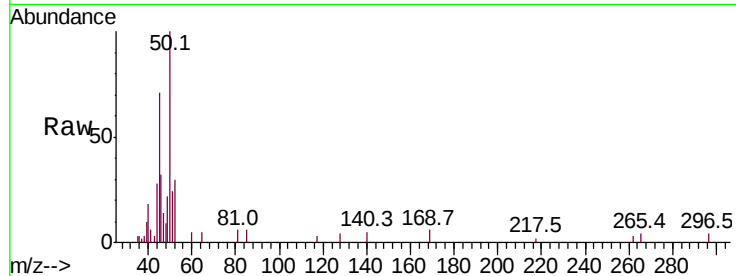
52 30.0 25.8 38.8

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#13

Ethanol

Concen: 46.443 ppbv m

RT: 3.61 min Scan# 256

Delta R.T. -0.01 min

Lab File: VL037201.D

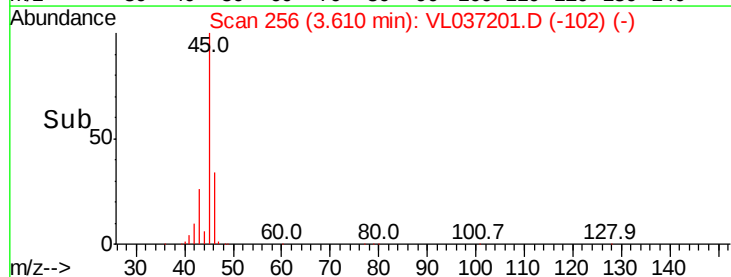
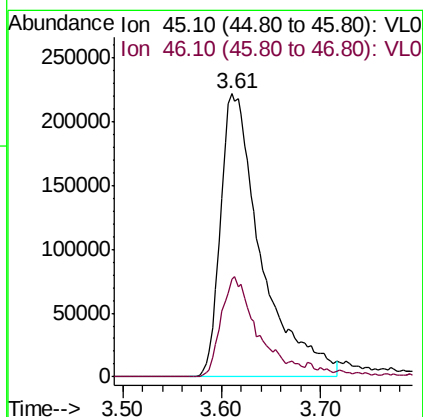
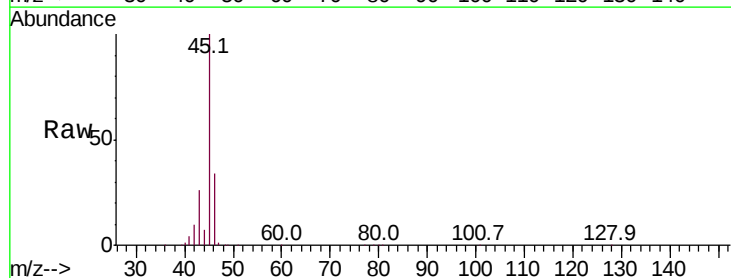
Acq: 17 Jun 2021 14:43

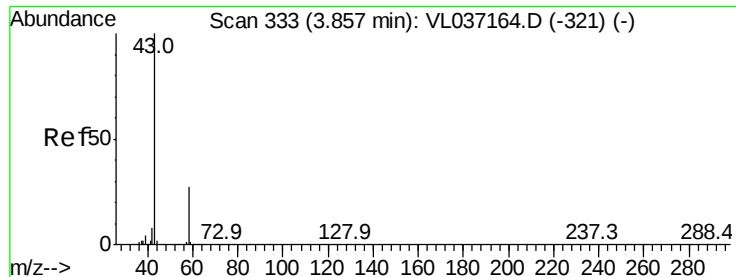
Tgt Ion: 45 Resp: 634850

Ion Ratio Lower Upper

45 100

46 35.6 34.2 137.0





#15

Acetone

Concen: 5.631 ppbv m

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL037201.D

Acq: 17 Jun 2021 14:43

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAYROOM-2DL

Tot Ion: 43 Resp: 902444

Ion Ratio Lower Upper

43 100

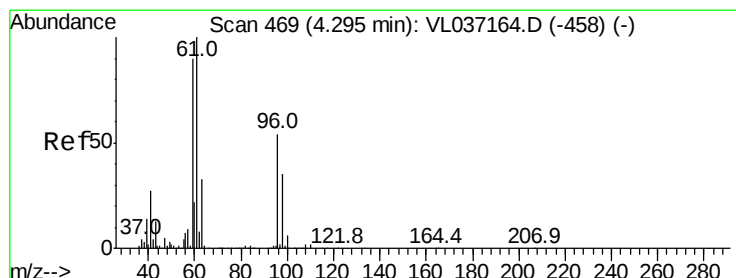
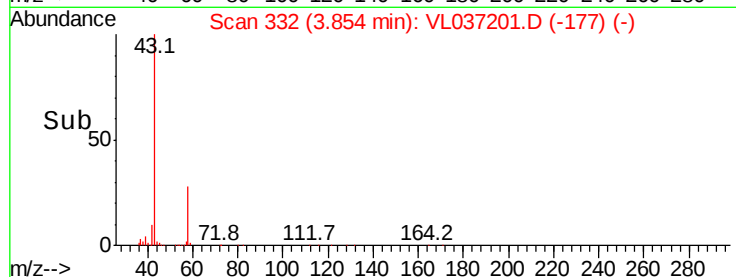
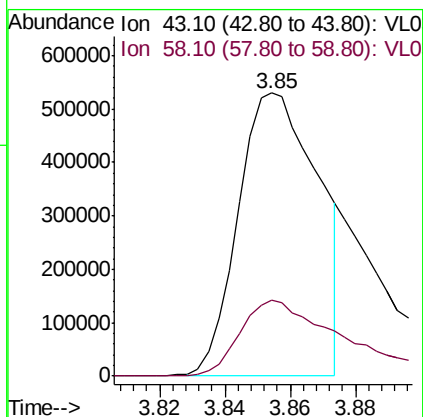
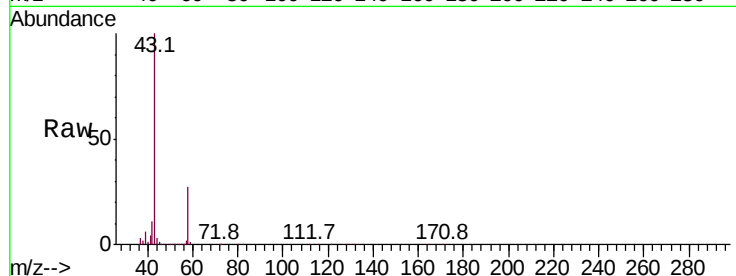
58 38.5 23.7 35.5#

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6/21/2021 12:53:59 PM



#17

tert-Butyl alcohol

Concen: 0.945 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. 0.02 min

Lab File: VL037201.D

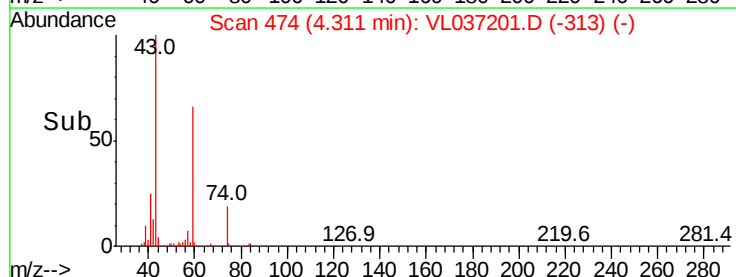
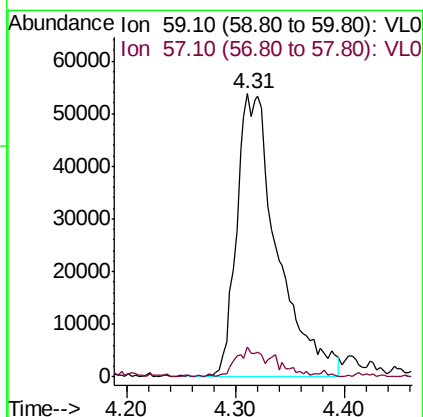
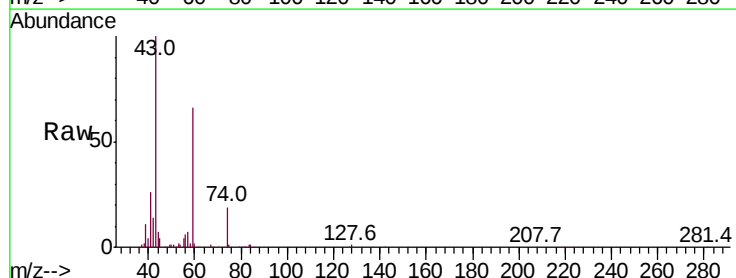
Acq: 17 Jun 2021 14:43

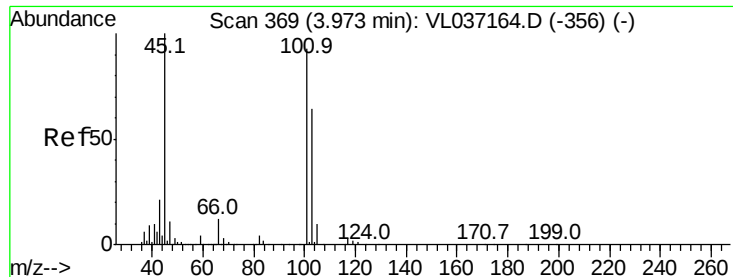
Tgt Ion: 59 Resp: 139941

Ion Ratio Lower Upper

59 100

57 9.8 8.8 13.2





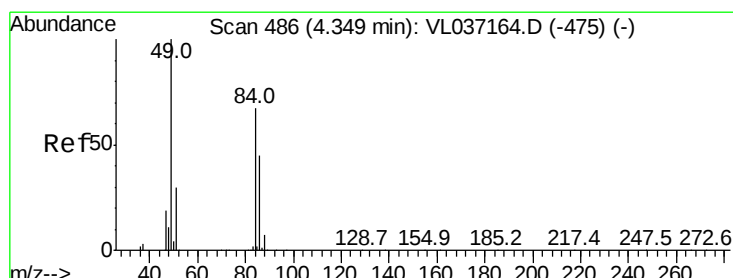
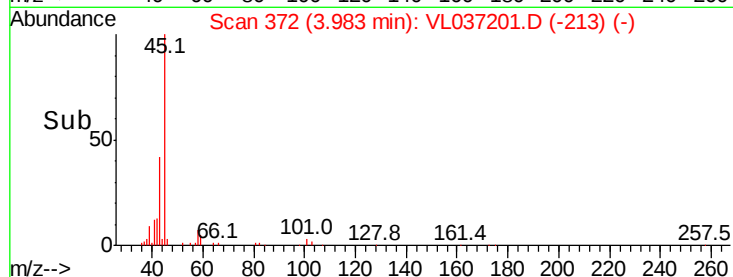
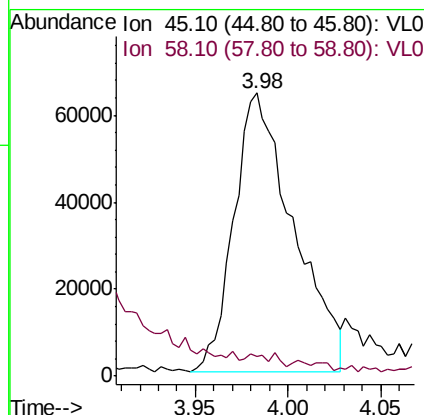
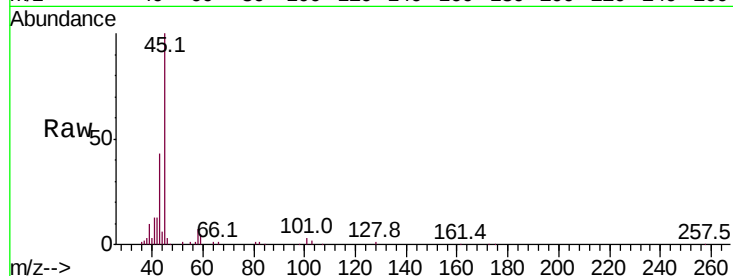
#19
Isopropyl Alcohol
Concen: 1.473 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-2DL

Tot Ion: 45 Resp: 142953
Ion Ratio Lower Upper
45 100
58 243.0 2.4 3.6#

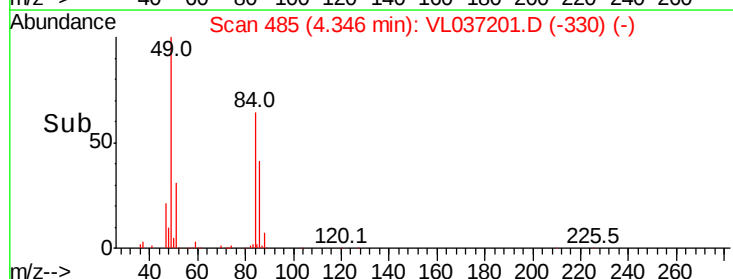
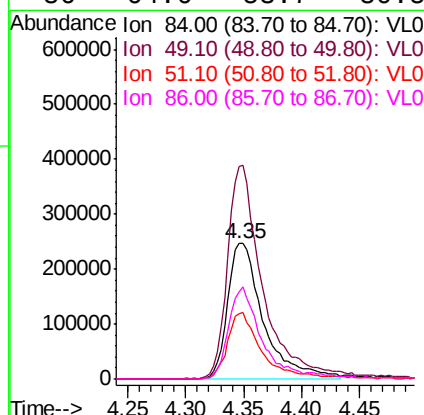
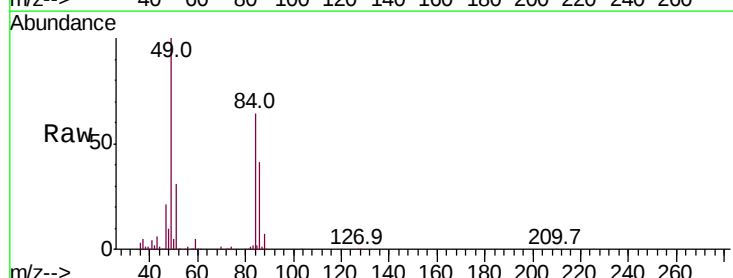
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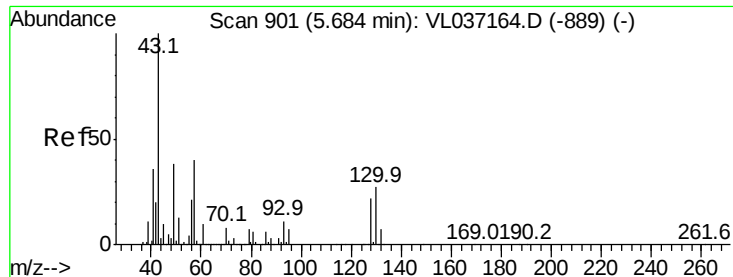
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#20
Methylene Chloride
Concen: 5.525 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Tgt Ion: 84 Resp: 530151
Ion Ratio Lower Upper
84 100
49 156.8 119.7 179.5
51 47.6 36.1 54.1
86 64.6 53.7 80.5





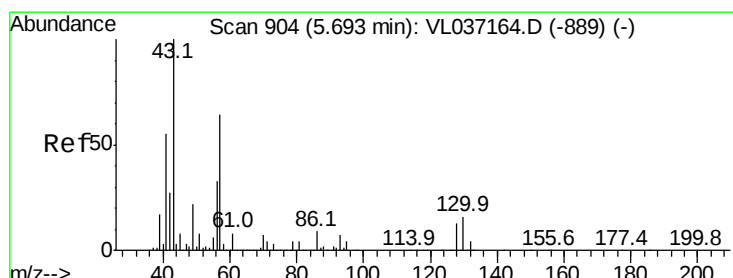
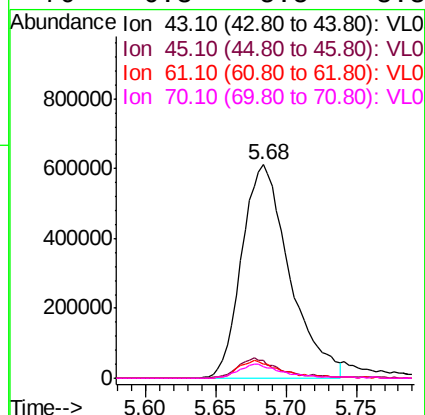
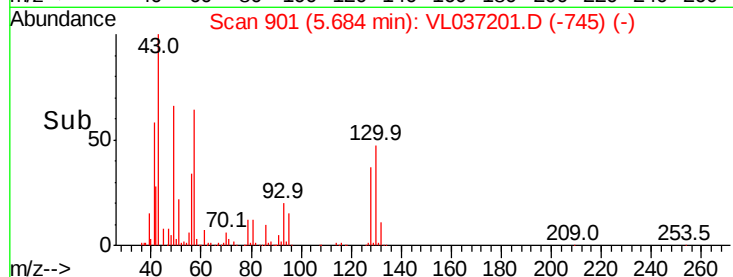
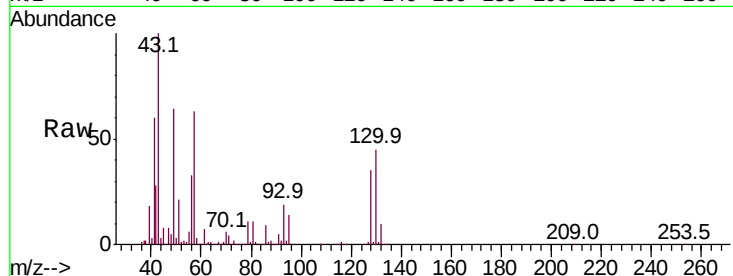
#25
Ethyl Acetate
Concen: 4.163 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-2DL

Tot Ion	Ratio	Lower	Upper
43	100		
45	8.9	8.0	12.0
61	7.9	8.1	12.1#
70	6.3	5.5	8.3

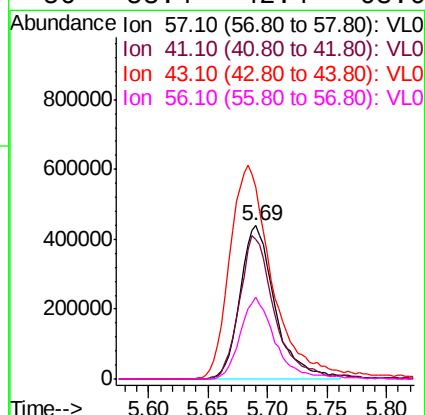
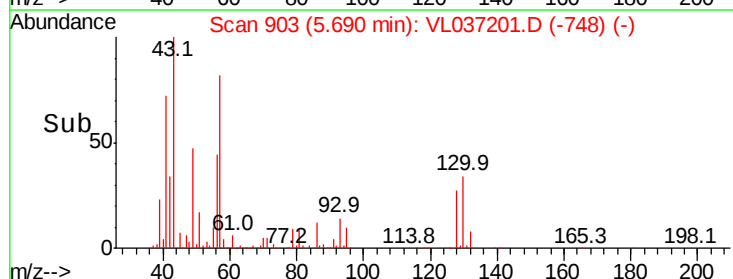
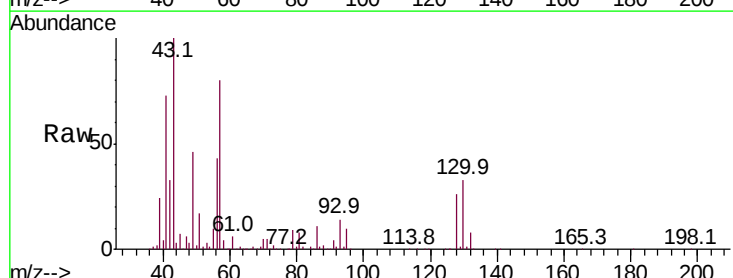
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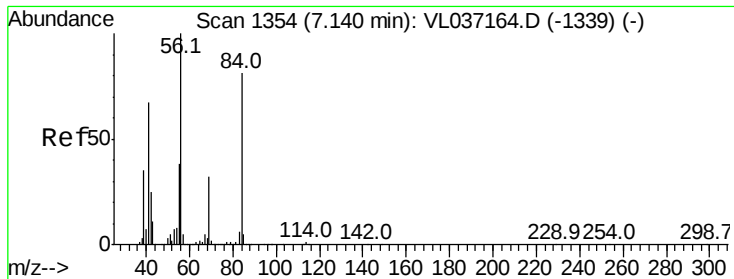
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#26
Hexane
Concen: 5.090 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.6	73.5	110.3
43	173.3	170.7	256.1
56	53.4	42.4	63.6





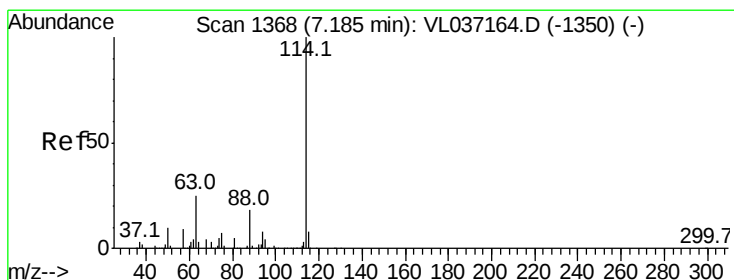
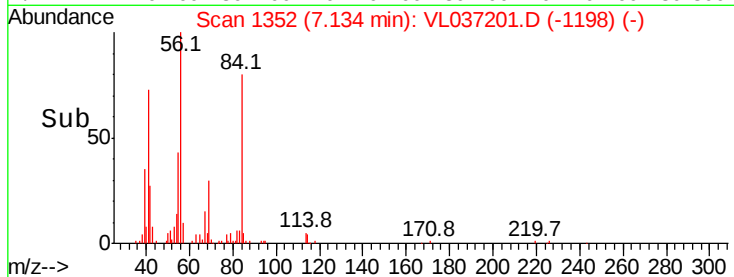
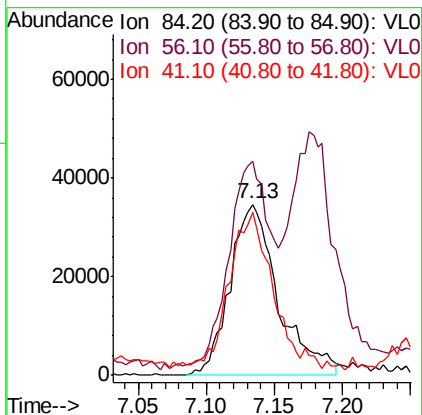
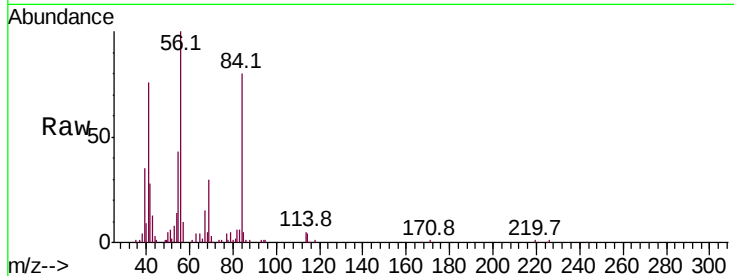
#30
Cvclohexane
Concen: 0.588 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-2DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	106.5	107.7	161.5#
41	87.2	69.0	103.6

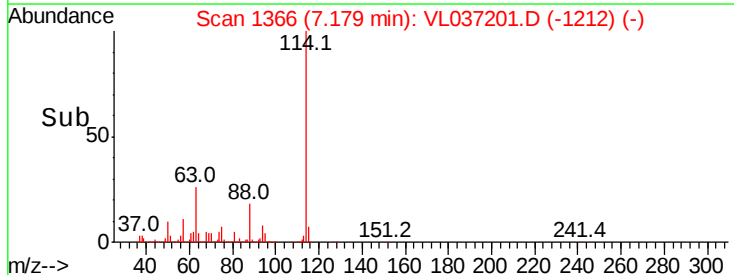
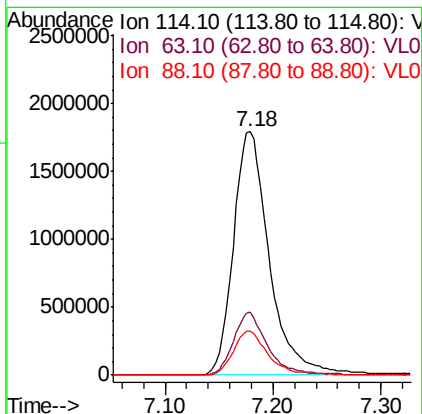
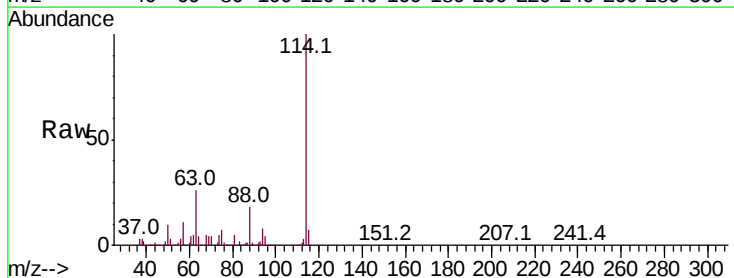
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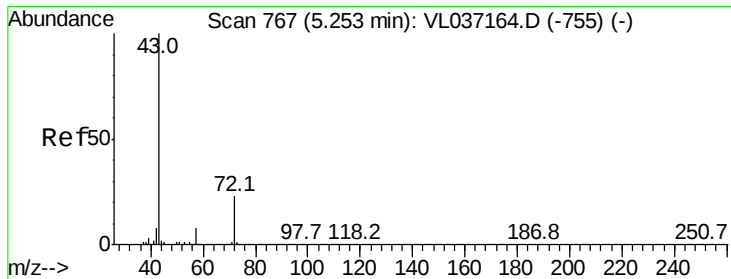
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.8	19.6	29.4
88	18.0	14.2	21.2





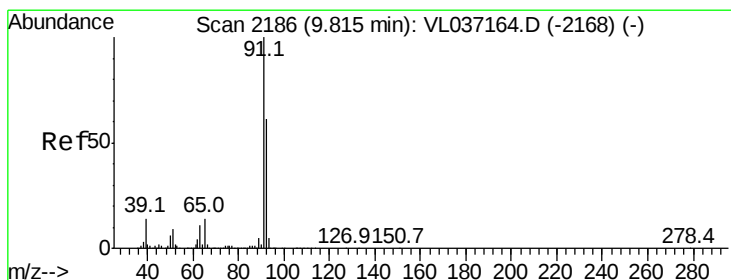
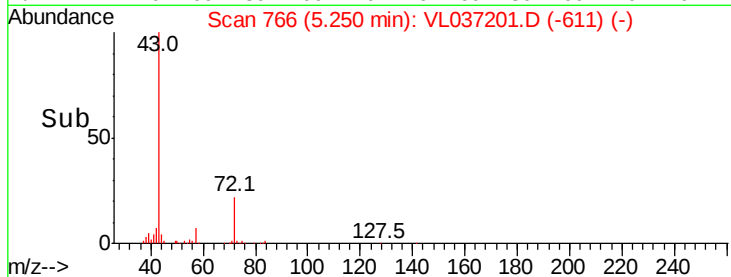
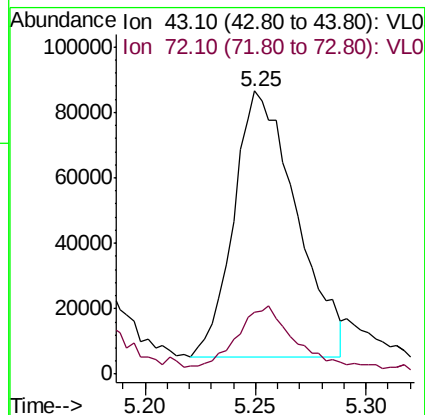
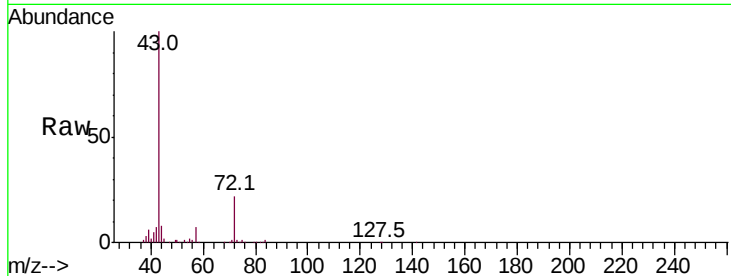
#34
2-Butanone
Concen: 0.994 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.00 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-2DL

Tot Ion: 43 Resp: 159893
Ion Ratio Lower Upper
43 100
72 30.1 18.9 28.3#

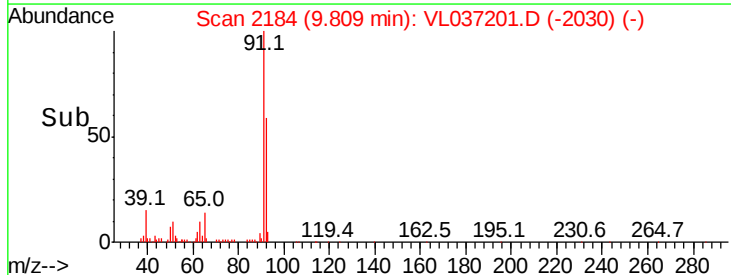
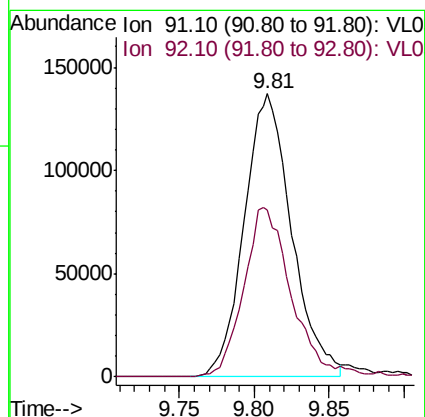
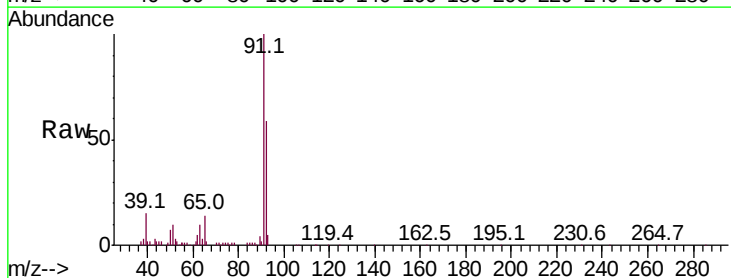
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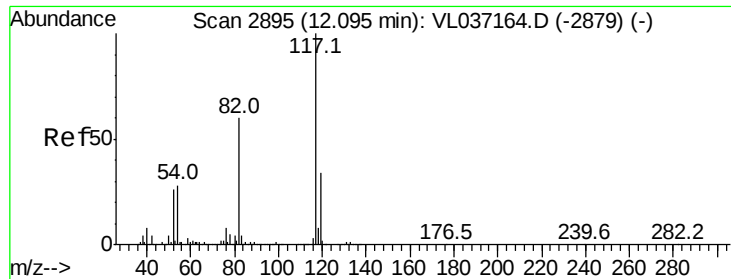
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6/21/2021 12:53:59 PM



#53
Toluene
Concen: 0.756 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. -0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Tgt Ion: 91 Resp: 302091
Ion Ratio Lower Upper
91 100
92 61.3 48.3 72.5





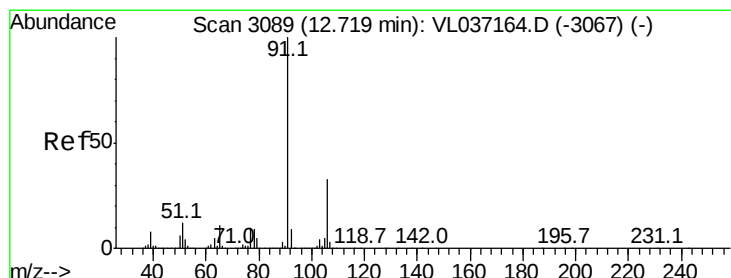
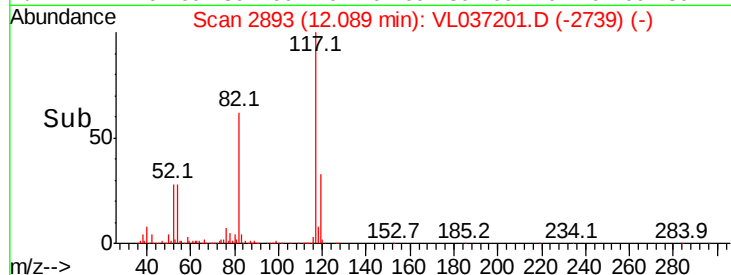
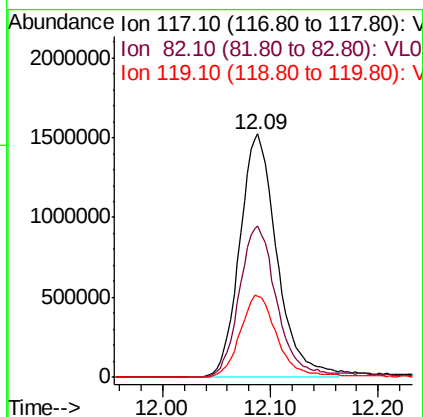
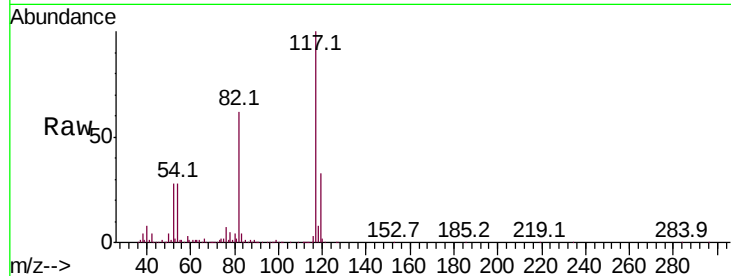
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-2DL

Tot Ion:117 Resp: 3661706
Ion Ratio Lower Upper
117 100
82 65.0 51.7 77.5
119 34.5 47.6 71.4#

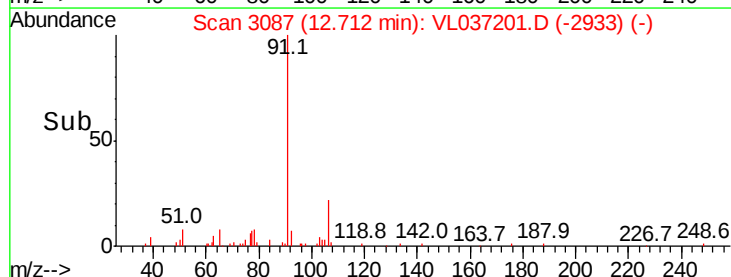
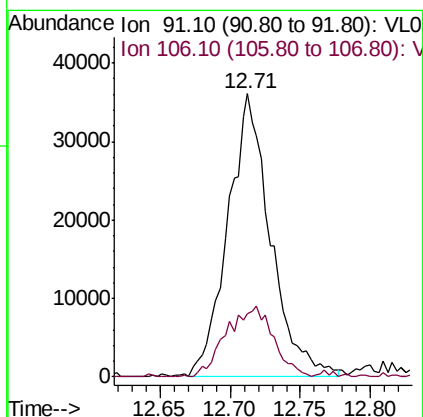
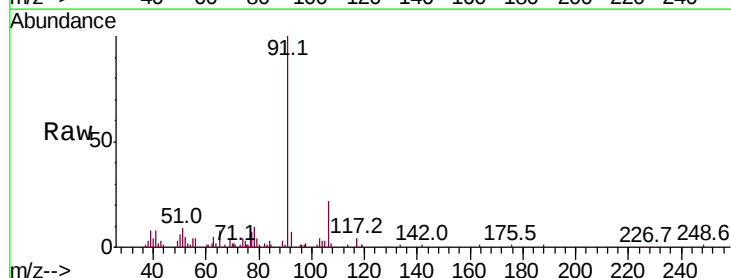
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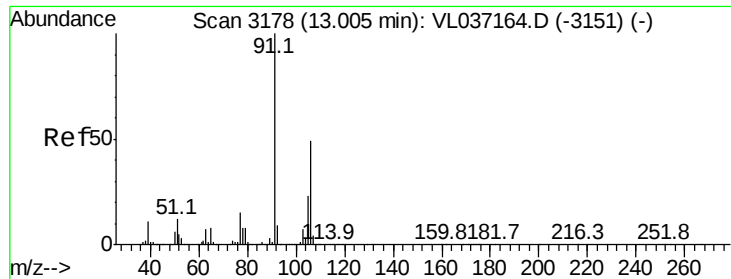
MMDadoda
6/21/2021 12:53:59 PM



#58
Ethyl Benzene
Concen: 0.152 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Tgt Ion: 91 Resp: 76378
Ion Ratio Lower Upper
91 100
106 22.2 26.3 39.5#





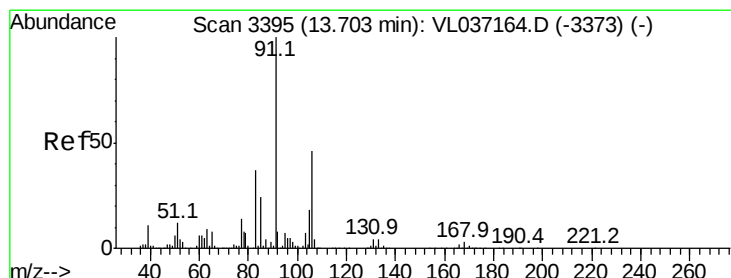
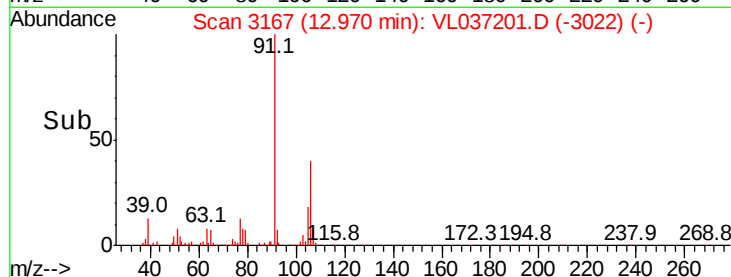
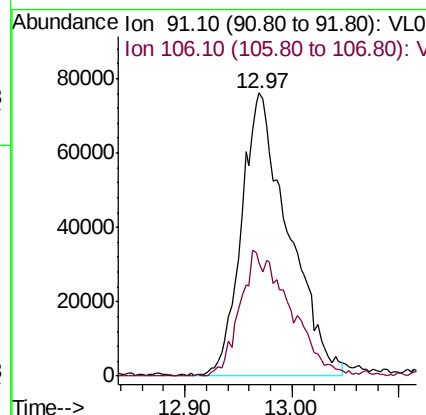
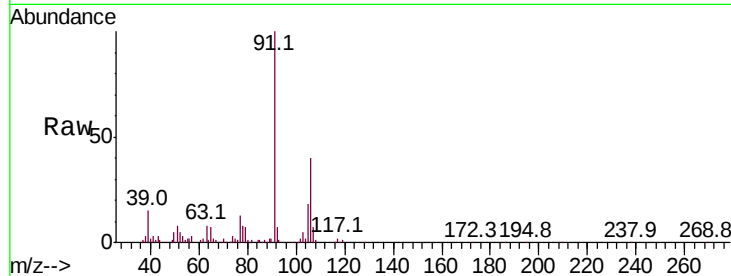
#59
m/p-Xylene
Concen: 0.545 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-2DL

Tot Ion: 91 Resp: 232892
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

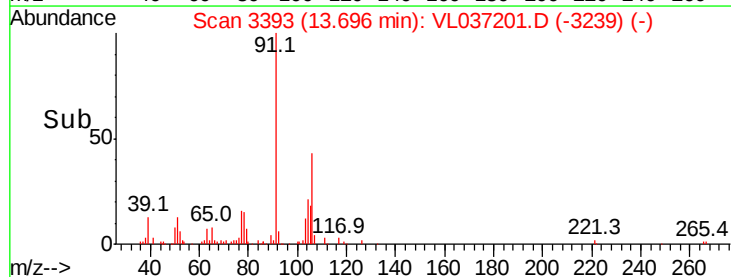
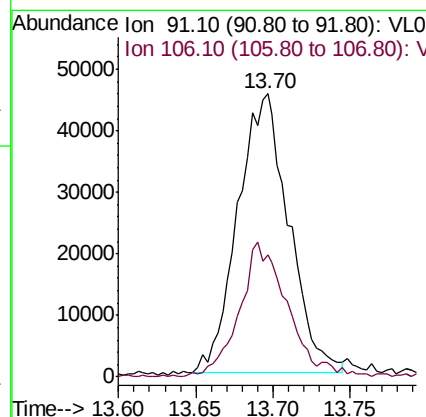
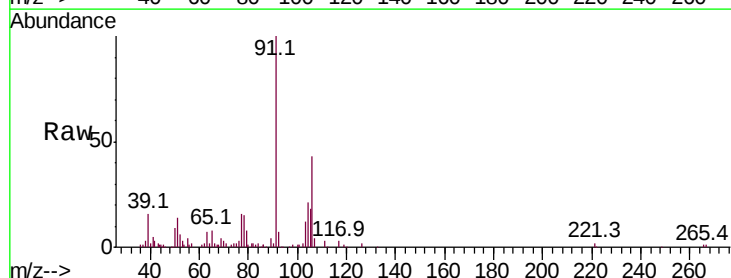
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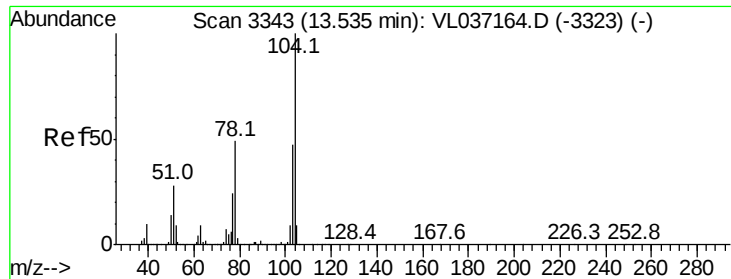
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#60
o-Xylene
Concen: 0.256 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Tgt Ion: 91 Resp: 104259
Ion Ratio Lower Upper
91 100
106 46.1 23.0 69.0





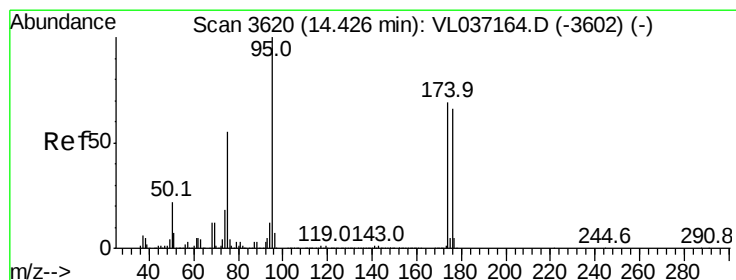
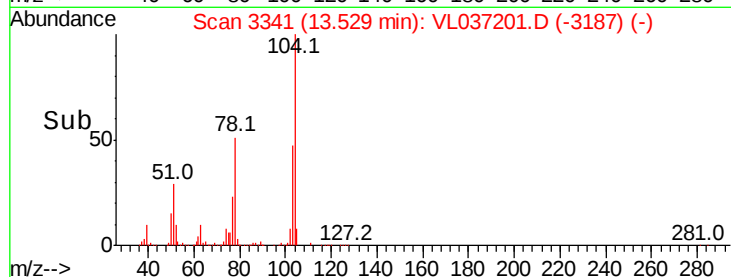
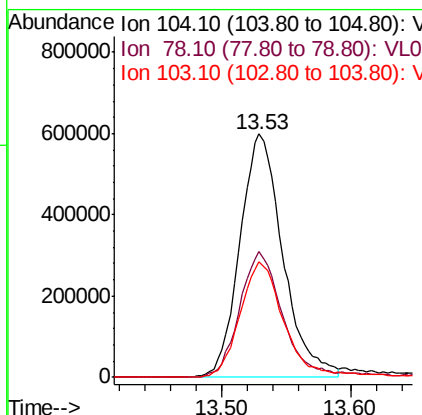
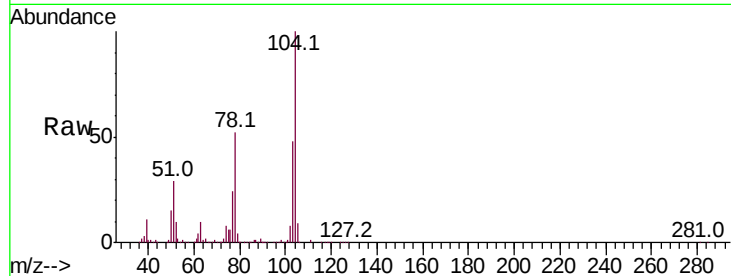
#61
Stvrene
Concen: 6.615 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-2DL

Tot Ion: 104 Resp: 1388699
Ion Ratio Lower Upper
104 100
78 53.3 39.7 59.5
103 49.1 37.6 56.4

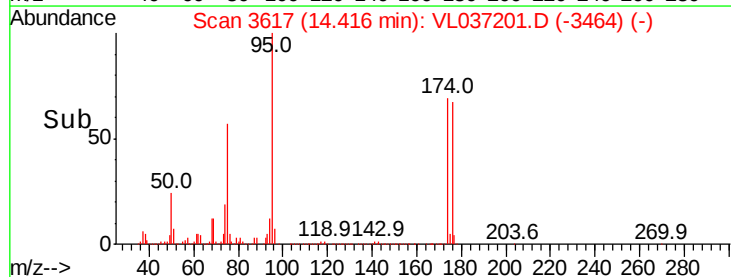
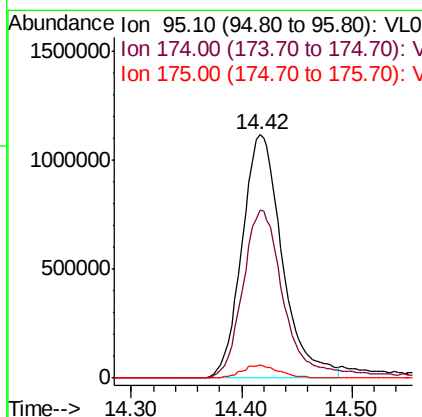
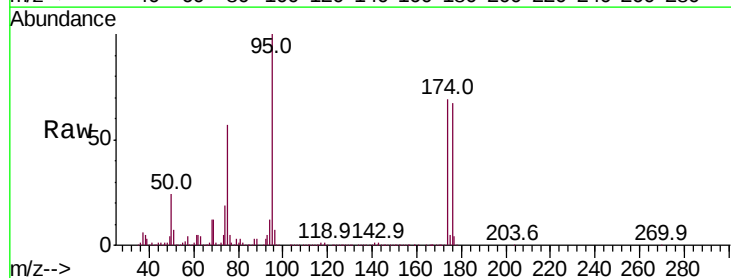
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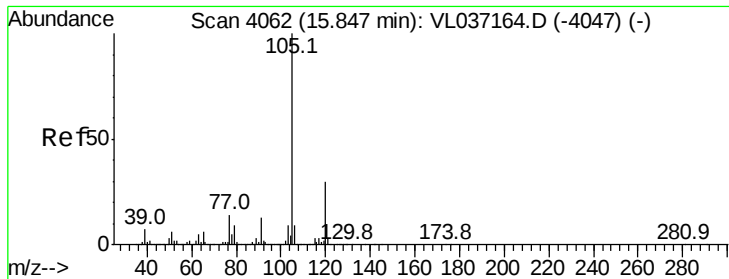
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6/21/2021 12:53:59 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.180 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL037201.D
Acq: 17 Jun 2021 14:43

Tgt Ion: 95 Resp: 2824738
Ion Ratio Lower Upper
95 100
174 73.5 57.0 85.4
175 5.2 4.4 6.6





#72

4-Ethyltoluene

Concen: 0.136 ppbv m

RT: 15.84 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL037201.D

Acq: 17 Jun 2021 14:43

Instrument :

MSVOA_L

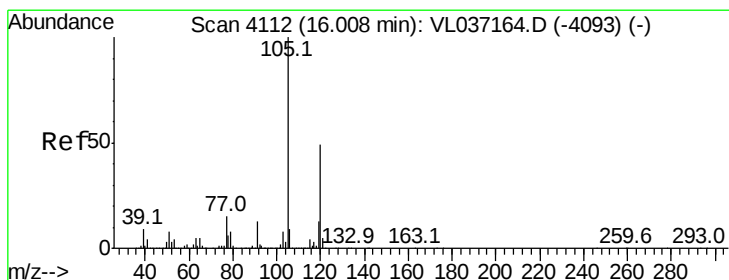
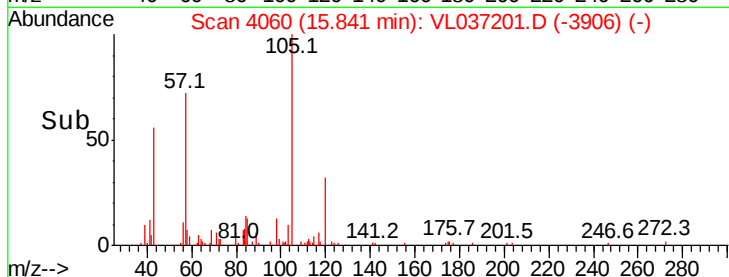
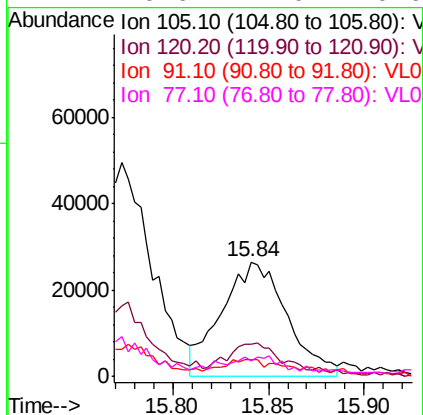
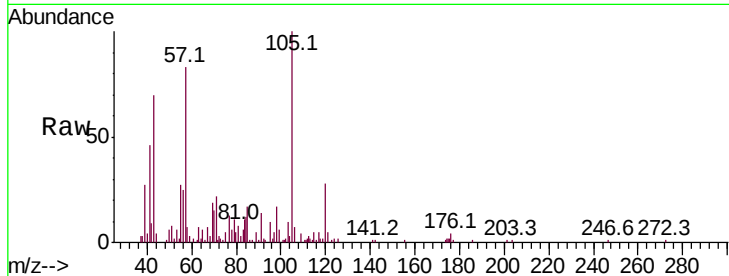
ClientSampleId :

IA-PLAYROOM-2DL

Tot Ion:	105	Resp:	62886
Ion Ratio	Lower	Upper	
105	100		
120	27.4	24.7	37.1
91	17.1	10.2	15.4#
77	16.6	11.0	16.6#

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#73

1,3,5-Trimethylbenzene

Concen: 0.166 ppbv m

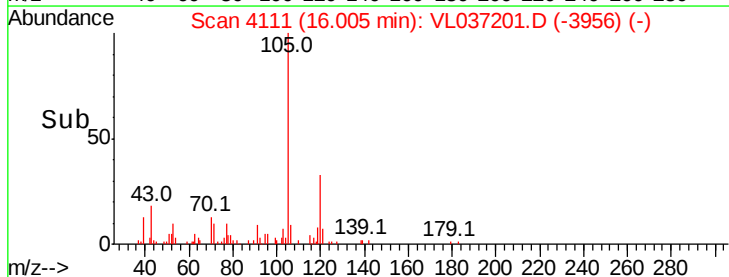
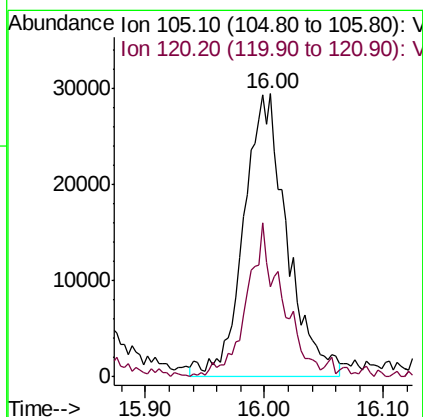
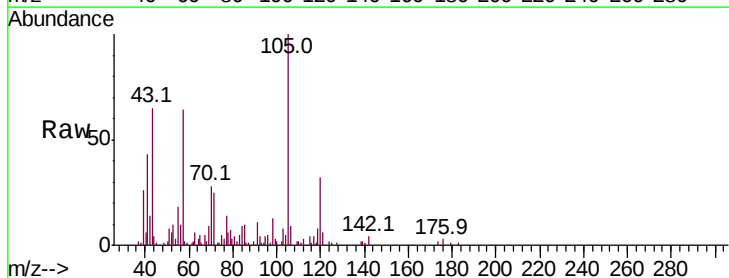
RT: 16.00 min Scan# 4111

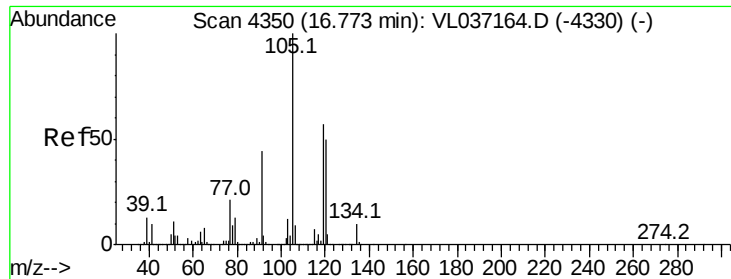
Delta R.T. -0.00 min

Lab File: VL037201.D

Acq: 17 Jun 2021 14:43

Tgt Ion:	105	Resp:	74335
Ion Ratio	Lower	Upper	
105	100		
120	31.8	39.4	59.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.433 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL037201.D
 Acq: 17 Jun 2021 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAYROOM-2DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	45.5	39.8	59.8
91	11.1	37.0	55.4#
77	16.2	17.0	25.4#

Manual Integrations
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