

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037299.D
 Acq On : 31 Jul 2021 1:59
 Operator : SY/AP
 Sample : M3121-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAY-ROOM-1DUP

Manual Integrations
 APPROVED

MMDadoda
 8/2/2021 8:58:10 AM

Quant Time: Jul 31 07:43:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 31 07:43:11 2021
 QLast Update : Fri Jul 30 23:19:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1197823	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3673202	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.09	117	3315842	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2254390	9.35	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	43117	0.250	ppbv	93
3) Chlorodifluoromethane	2.98	51	402428	1.677	ppbv	95
4) Chloromethane	3.13	50	43960	0.525	ppbv	97
5) Vinyl Chloride	3.24	62	3360m	0.037	ppbv	
9) Propene	3.02	41	38260m	0.474	ppbv	
11) Trichlorofluoromethane	3.94	101	55745m	0.260	ppbv	
13) Ethanol	3.61	45	263859m	14.868	ppbv	
15) Acetone	3.84	43	681056	3.157	ppbv	100
19) Isopropyl Alcohol	3.98	45	251214m	3.010	ppbv	
20) Methylene Chloride	4.34	84	450705	5.398	ppbv	98
26) Hexane	5.68	57	415773	2.485	ppbv #	53
29) Chloroform	5.74	83	23868m	0.100	ppbv	
30) Cyclohexane	7.13	84	26897m	0.206	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	7291m	0.031	ppbv	
34) 2-Butanone	5.25	43	79685m	0.506	ppbv	
35) Carbon Tetrachloride	7.02	117	20722	0.089	ppbv #	78
36) Benzene	6.89	78	52117	0.168	ppbv	97
38) Trichloroethene	7.83	130	5082m	0.036	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	84511m	0.166	ppbv	
52) Tetrachloroethene	11.22	164	12259m	0.089	ppbv	
53) Toluene	9.80	91	800868	2.190	ppbv	99
59) m/p-Xylene	12.97	91	66756m	0.170	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	9558m	0.036	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	57462m	0.127	ppbv	

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

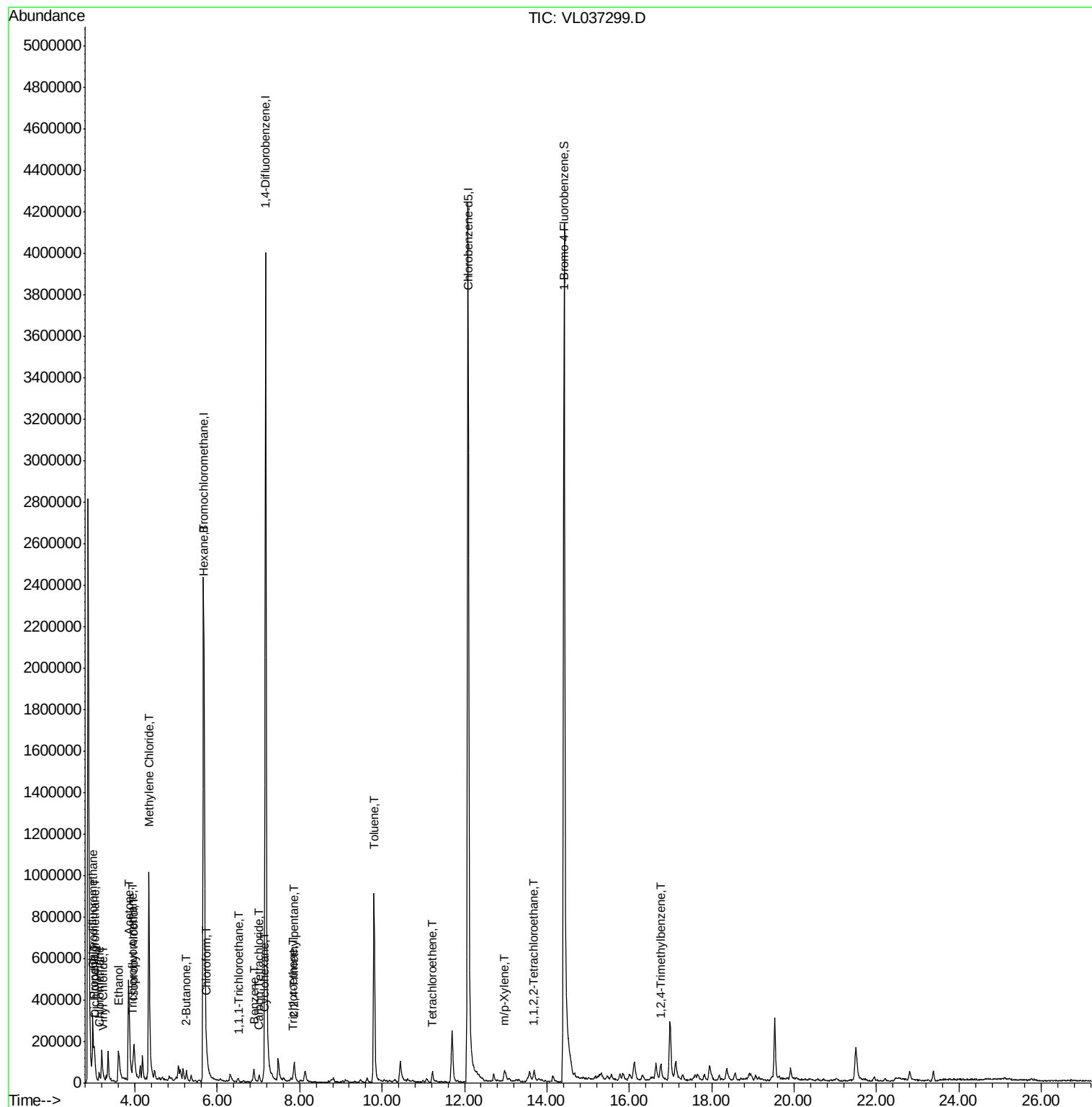
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
Data File : VL037299.D
Acq On : 31 Jul 2021 1:59
Operator : SY/AP
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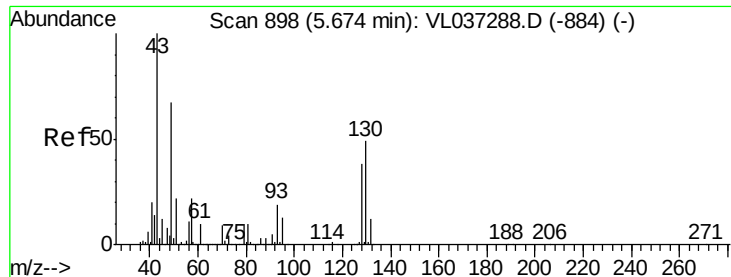
Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-1DUP

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Quant Time: Jul 31 07:43:11 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 30 23:19:30 2021
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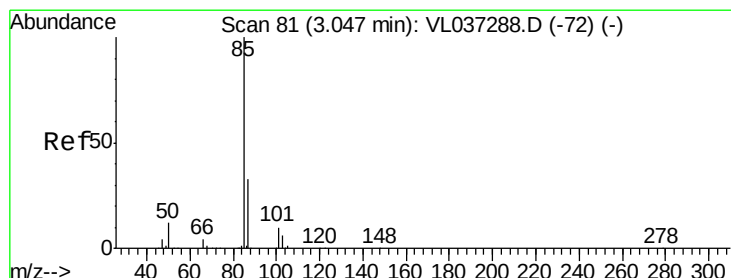
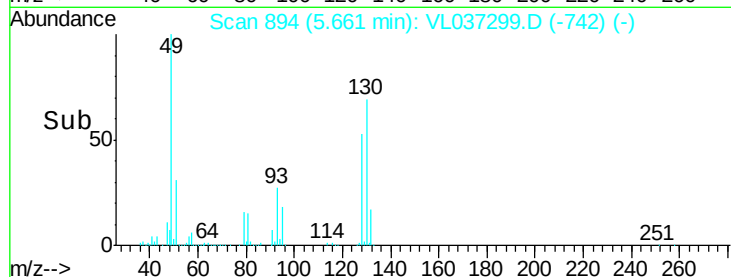
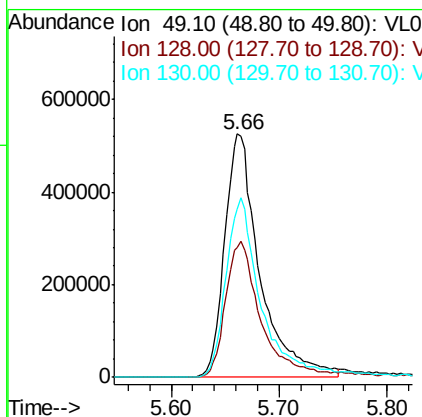
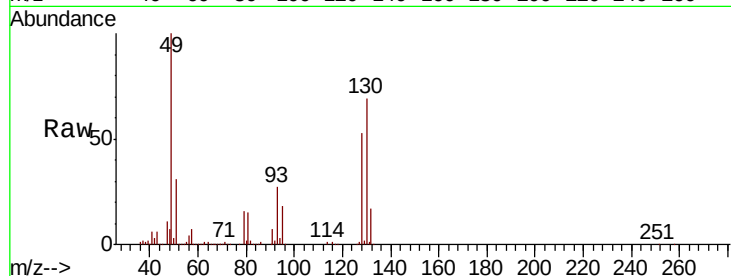
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 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 894
 Delta R.T. -0.01 min
 Lab File: VL037299.D
 Acq: 31 Jul 2021 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAY-ROOM-1DUP

Tot Ion: 49 Resp: 1197823
 Ion Ratio Lower Upper
 49 100
 128 57.4 30.6 92.0
 130 75.5 37.8 113.4

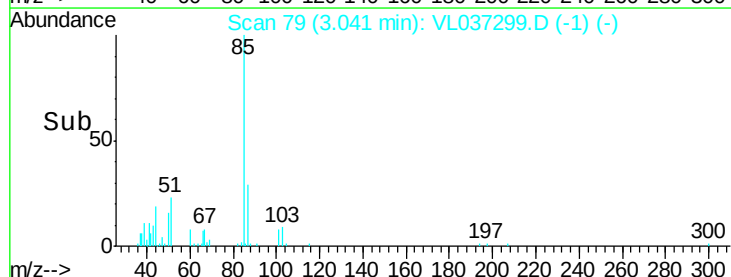
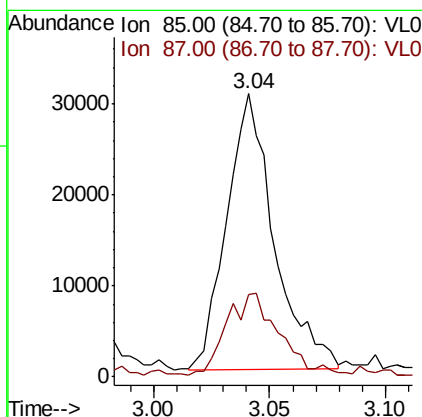
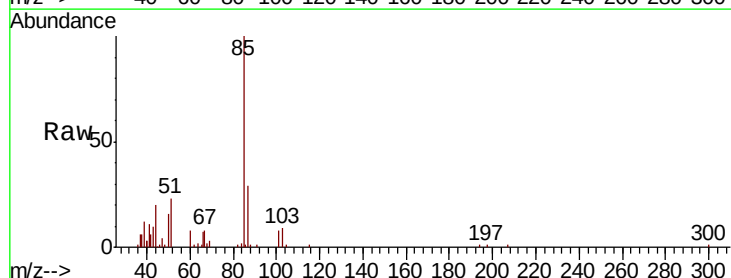
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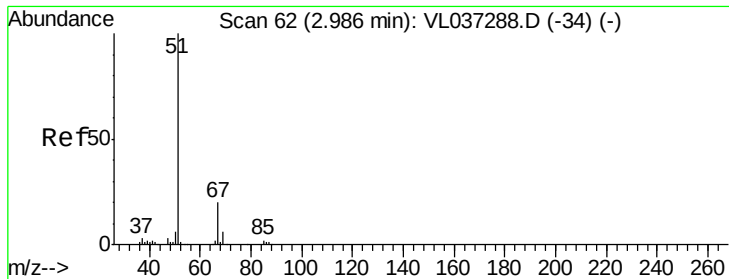
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#2
 Dichlorodifluoromethane
 Concen: 0.250 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. -0.01 min
 Lab File: VL037299.D
 Acq: 31 Jul 2021 1:59

Tgt Ion: 85 Resp: 43117
 Ion Ratio Lower Upper
 85 100
 87 29.2 26.6 40.0





#3

Chlorodifluoromethane

Concen: 1.677 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037299.D

Acq: 31 Jul 2021 1:59

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-1DUP

Tot Ion: 51 Resp: 402428

Ion Ratio Lower Upper

51 100

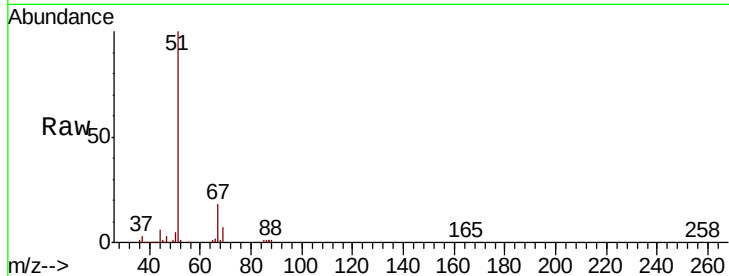
67 17.0 15.2 22.8

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

250000

200000

150000

100000

50000

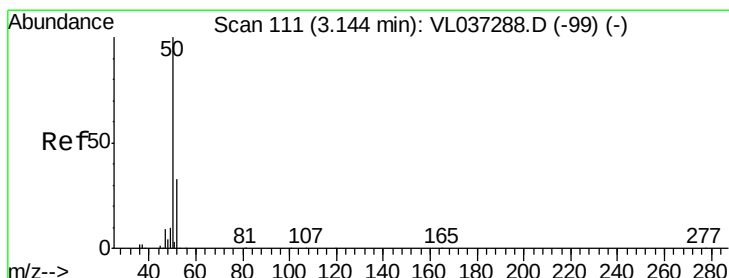
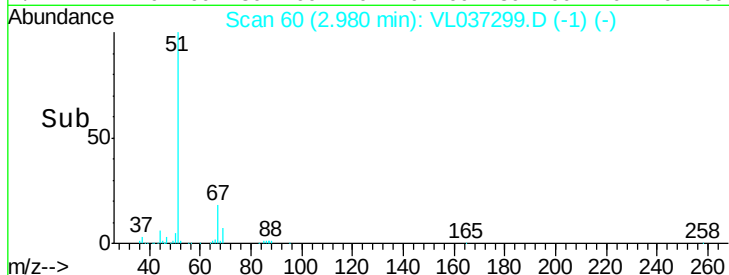
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Time-->

2.90

3.00

3.10



#4

Chloromethane

Concen: 0.525 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037299.D

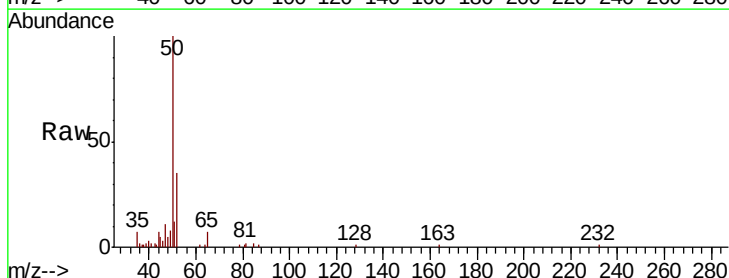
Acq: 31 Jul 2021 1:59

Tgt Ion: 50 Resp: 43960

Ion Ratio Lower Upper

50 100

52 34.5 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

25000

20000

15000

10000

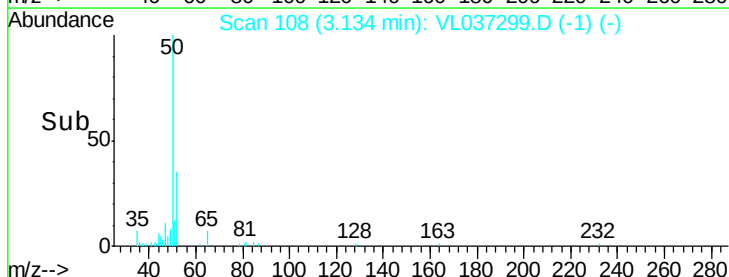
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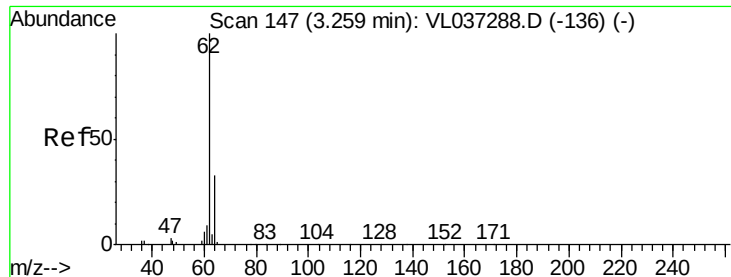
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Time-->

3.10

3.15





#5

Vinyl Chloride

Concen: 0.037 ppbv m

RT: 3.24 min Scan# 142

Delta R.T. -0.02 min

Lab File: VL037299.D

Acq: 31 Jul 2021 1:59

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-1DUP

Tot Ion: 62 Resp: 3360

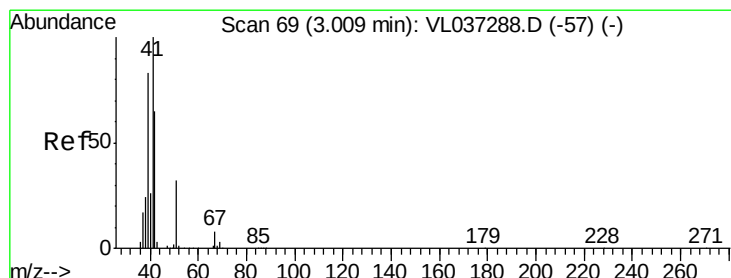
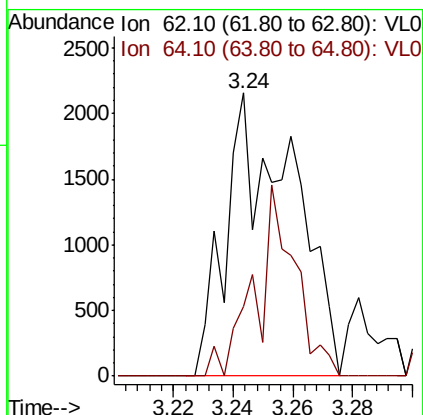
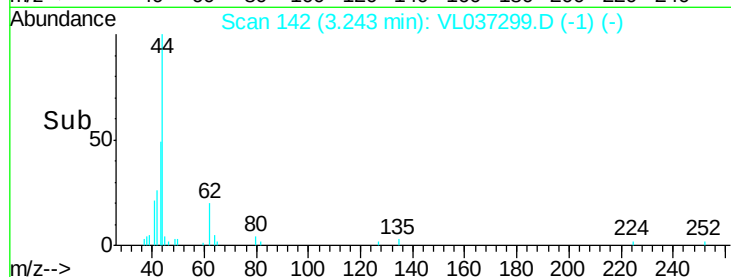
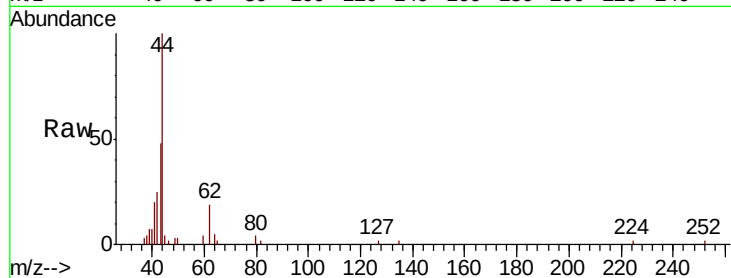
Ion Ratio Lower Upper

62 100

64 24.6 26.1 39.1#

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#9

Propene

Concen: 0.474 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037299.D

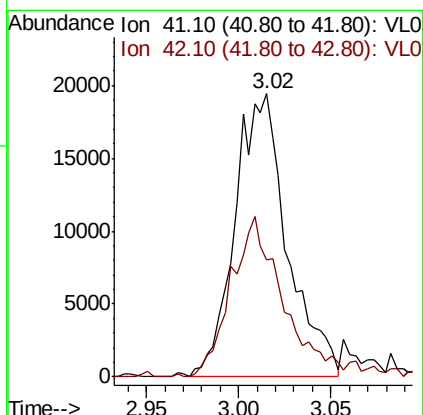
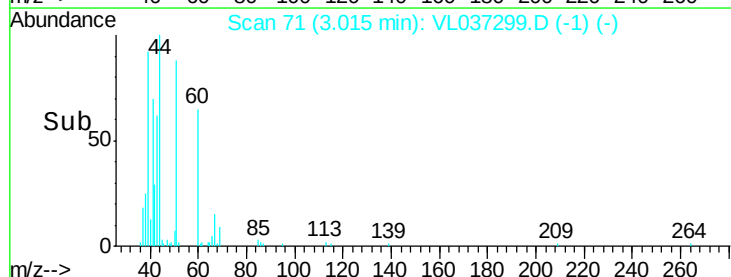
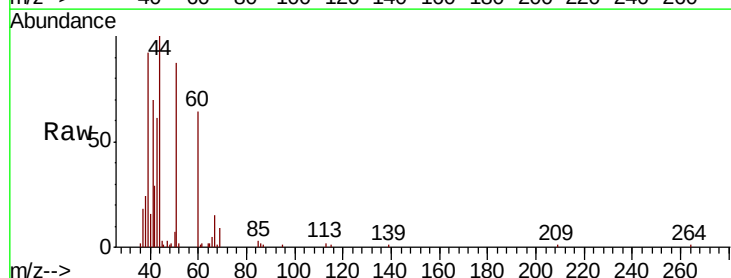
Acq: 31 Jul 2021 1:59

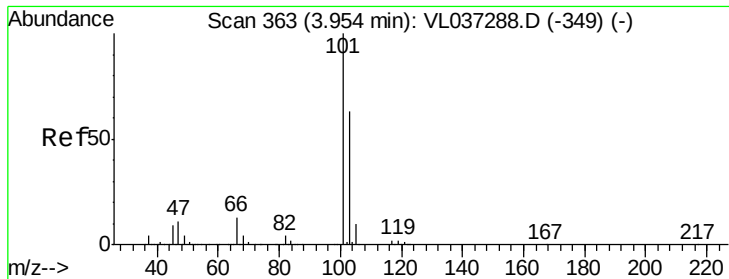
Tgt Ion: 41 Resp: 38260

Ion Ratio Lower Upper

41 100

42 59.1 54.0 81.0





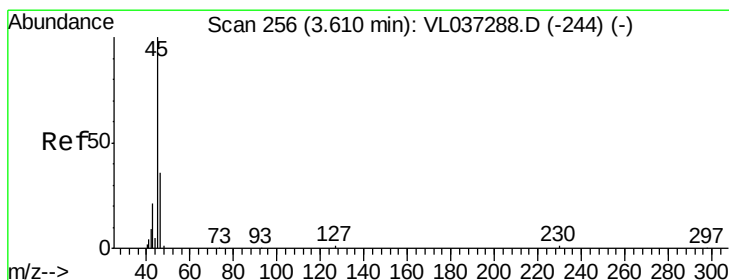
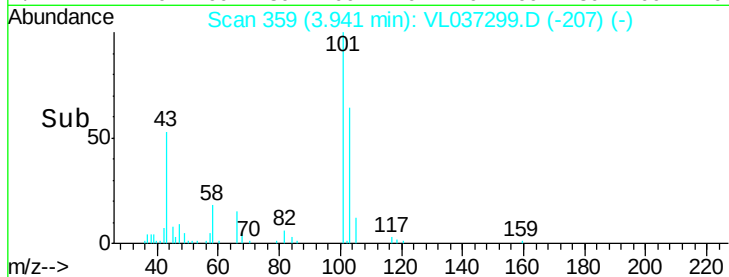
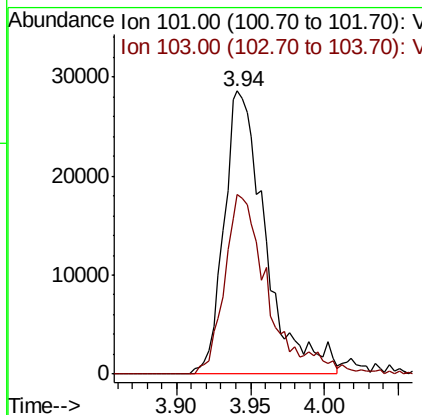
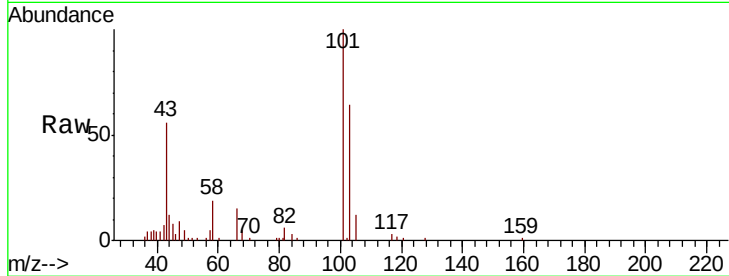
#11
 Trichlorofluoromethane
 Concen: 0.260 ppbv m
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL037299.D
 Acq: 31 Jul 2021 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAY-ROOM-1DUP

Tot Ion:101 Resp: 55745
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.6 75.8

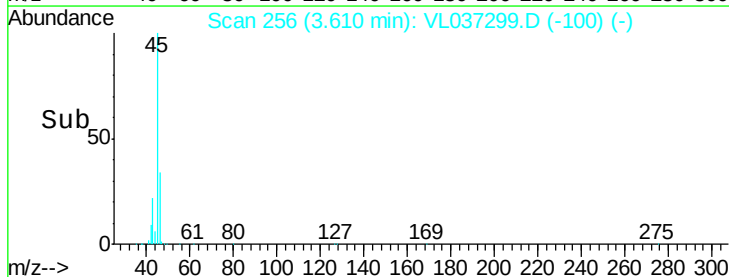
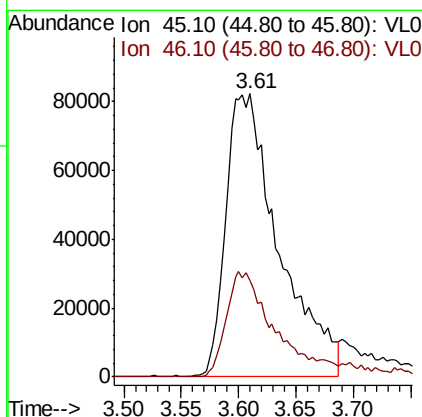
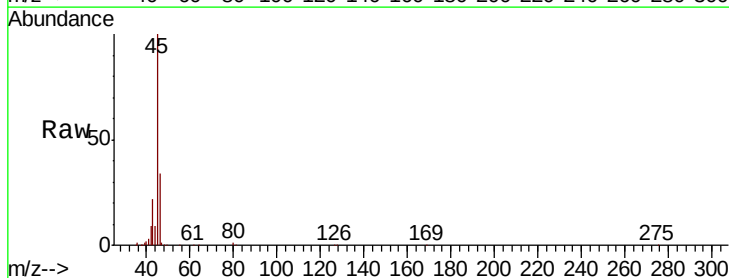
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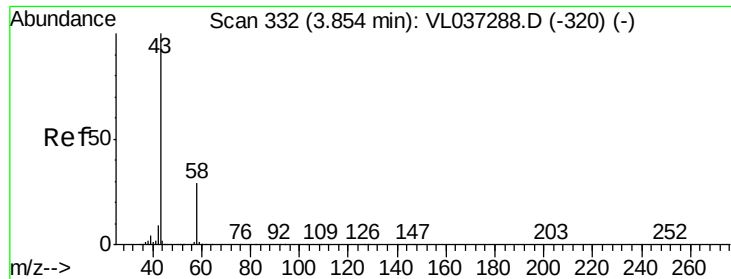
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#13
 Ethanol
 Concen: 14.868 ppbv m
 RT: 3.61 min Scan# 256
 Delta R.T. 0.00 min
 Lab File: VL037299.D
 Acq: 31 Jul 2021 1:59

Tgt Ion: 45 Resp: 263859
 Ion Ratio Lower Upper
 45 100
 46 38.6 16.2 64.8





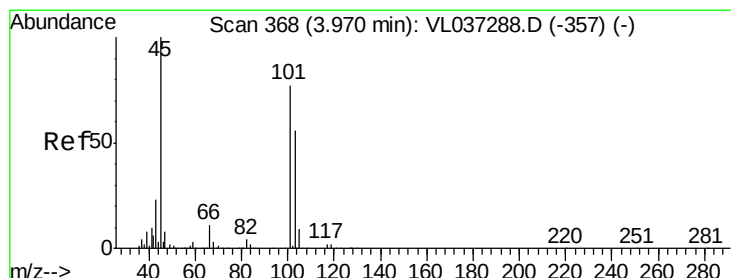
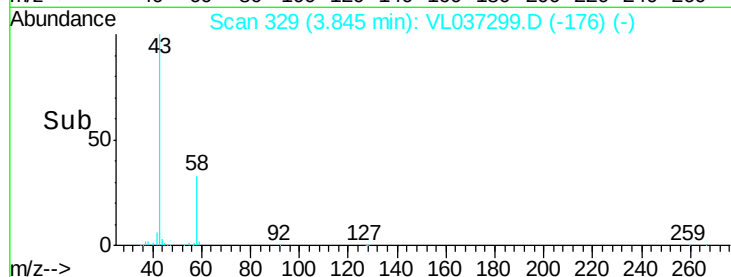
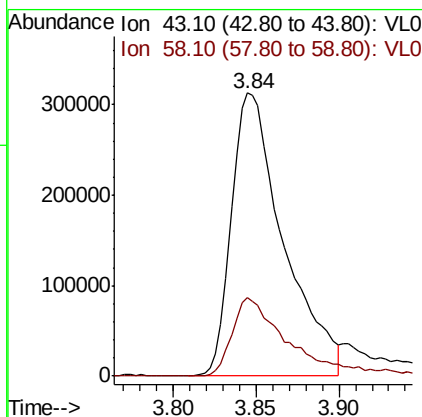
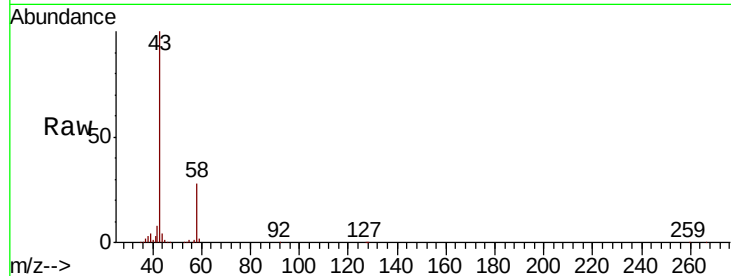
#15
Acetone
Concen: 3.157 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-1DUP

Tot Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.2	36.4

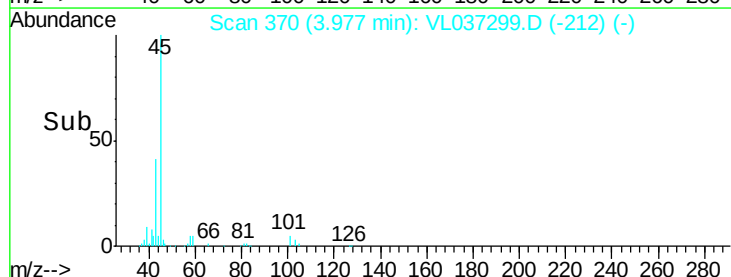
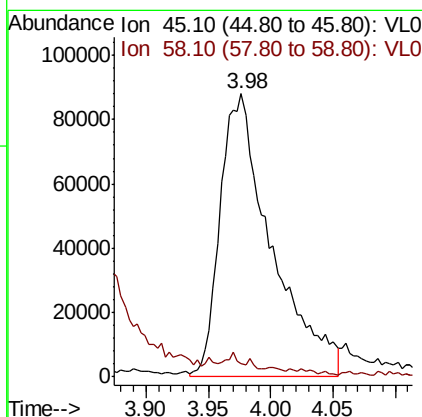
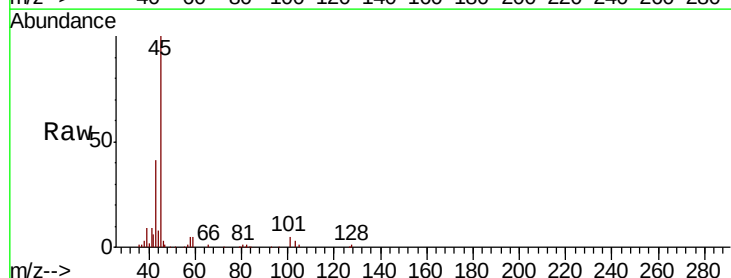
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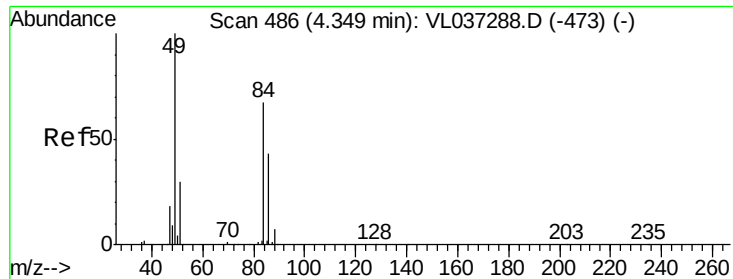
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#19
Isopropyl Alcohol
Concen: 3.010 ppbv m
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Tgt Ion	Ratio	Lower	Upper
45	100		
58	7.1	2.2	3.2#





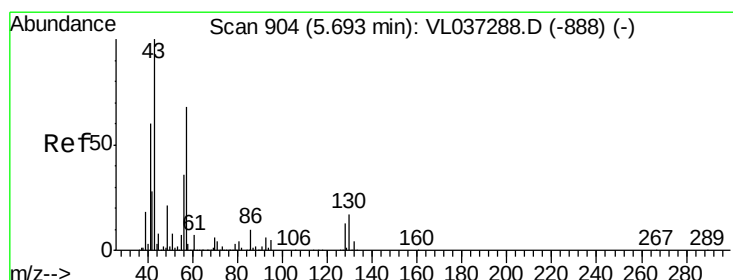
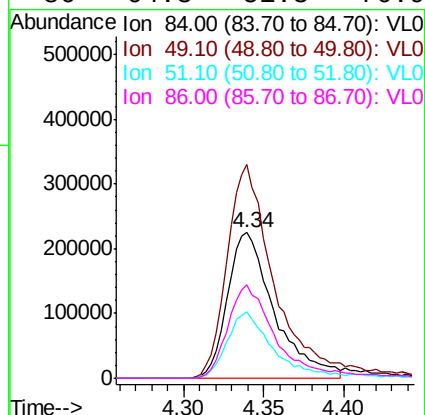
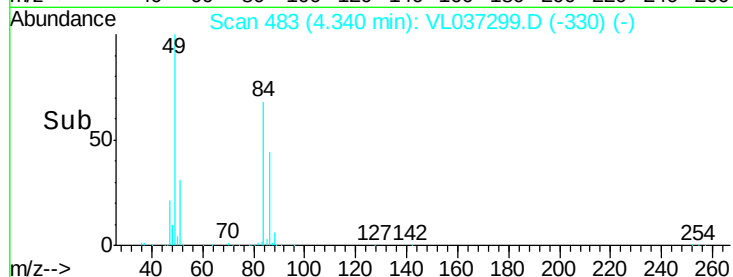
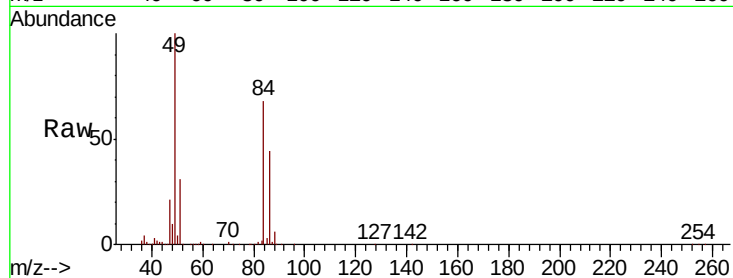
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Methvlene Chloride
Concen: 5.398 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-1DUP

Tot Ion	84	Resp	450705
Ion	Ratio	Lower	Upper
84	100		
49	146.4	120.2	180.4
51	45.5	36.5	54.7
86	64.3	51.3	76.9

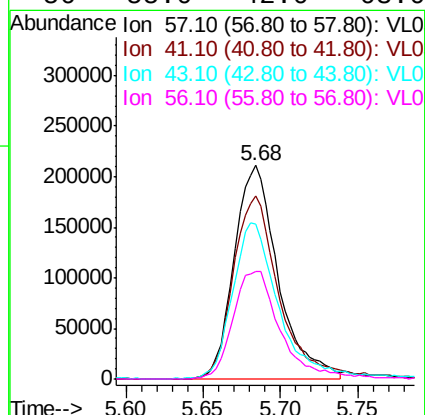
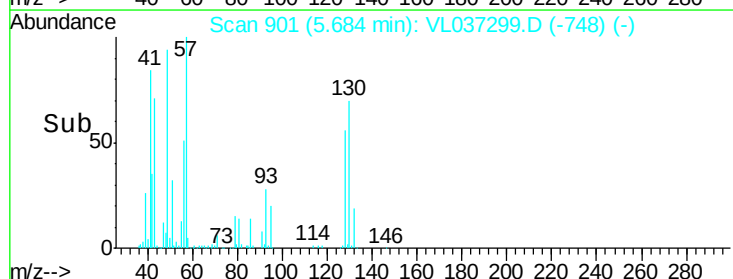
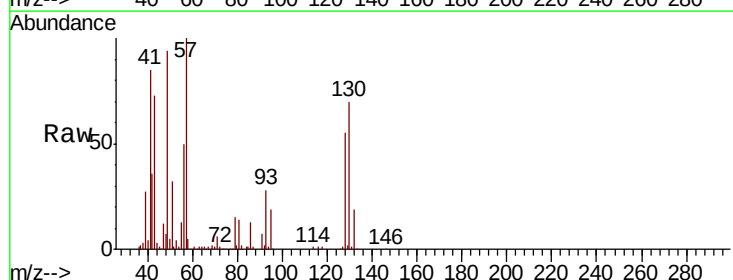
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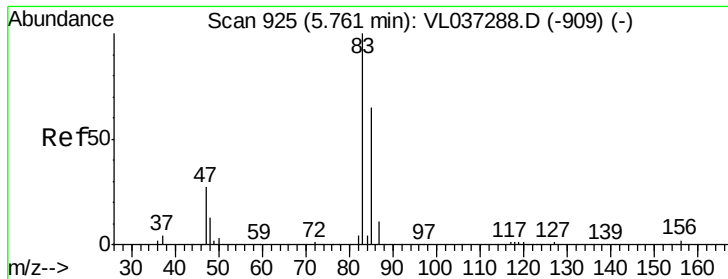
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#26
Hexane
Concen: 2.485 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Tgt Ion	57	Resp	415773
Ion	Ratio	Lower	Upper
57	100		
41	92.2	71.0	106.6
43	77.4	155.0	232.4#
56	55.0	42.0	63.0





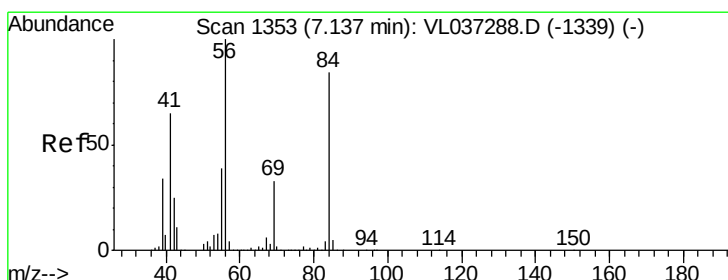
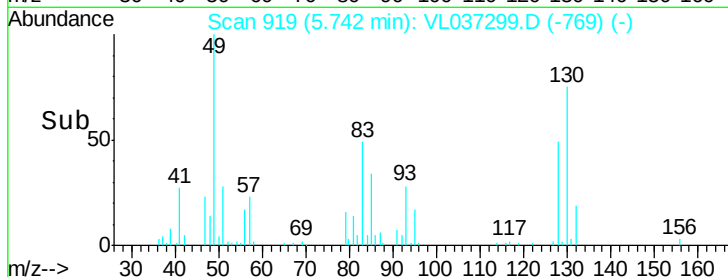
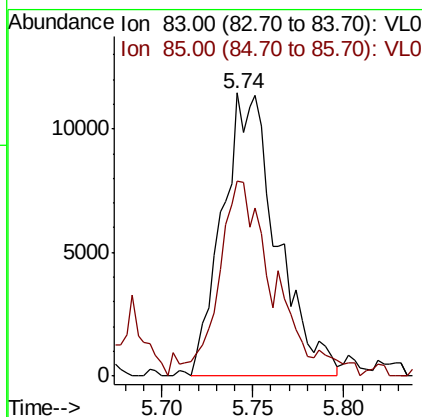
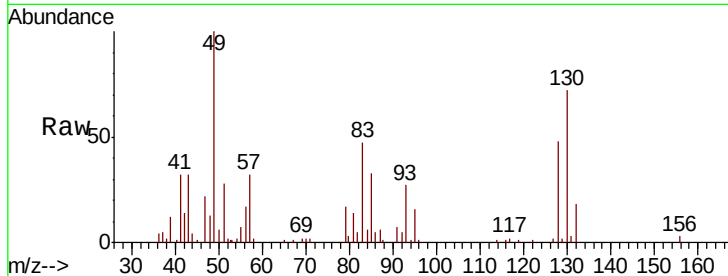
#29
Chloroform
Concen: 0.100 ppbv m
RT: 5.74 min Scan# 919
Delta R.T. -0.02 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-1DUP

Tot Ion	83	Resp	23868
Ion Ratio	100	Lower	Upper
85	69.1	51.9	77.9

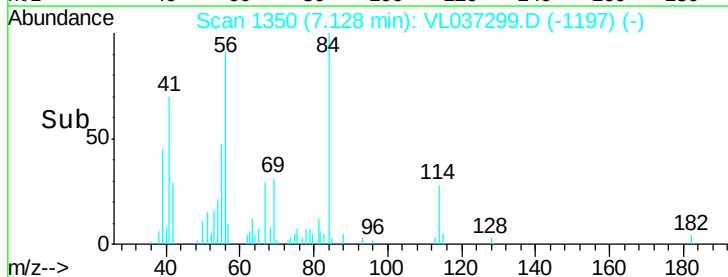
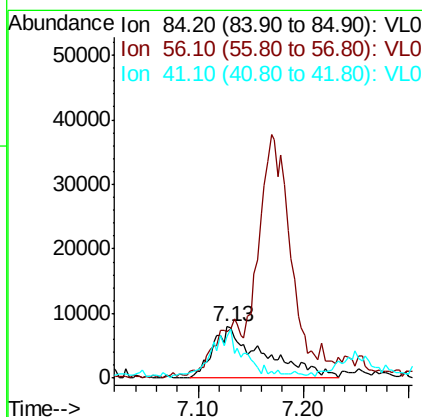
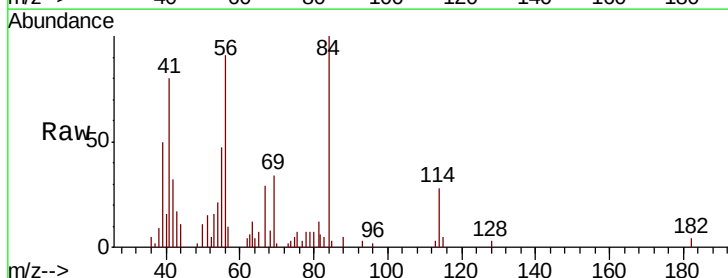
Manual Integrations
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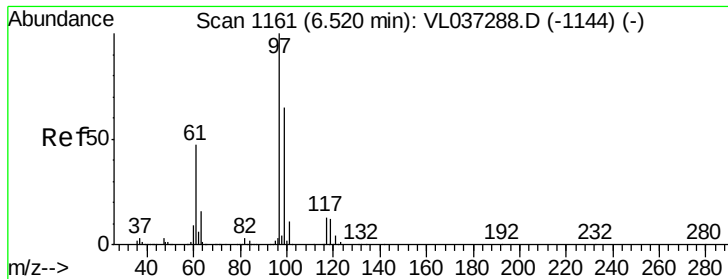
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#30
Cyclohexane
Concen: 0.206 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Tgt Ion	84	Resp	26897
Ion Ratio	100	Lower	Upper
56	0.0	104.1	156.1#
41	0.0	64.7	97.1#





#32

1,1,1-Trichloroethane

Concen: 0.031 ppbv m

RT: 6.52 min Scan# 1160

Delta R.T. -0.00 min

Lab File: VL037299.D

Acq: 31 Jul 2021 1:59

Instrument :

MSVOA_L

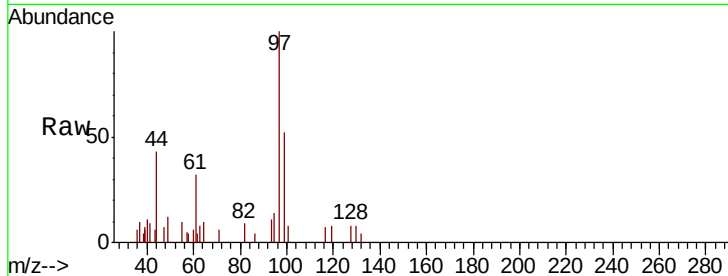
ClientSampleId :

IA-PLAY-ROOM-1DUP

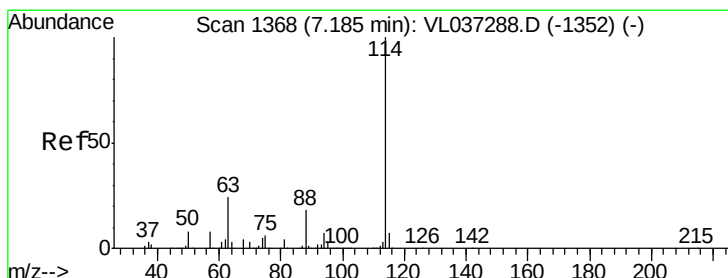
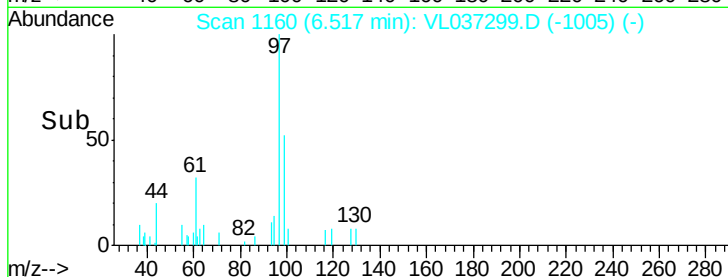
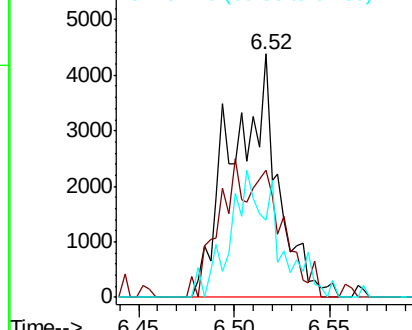
Tot Ion:	97	Resp:	7291
Ion	Ratio	Lower	Upper
97	100		
99	70.2	52.5	78.7
61	53.7	38.2	57.4

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Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

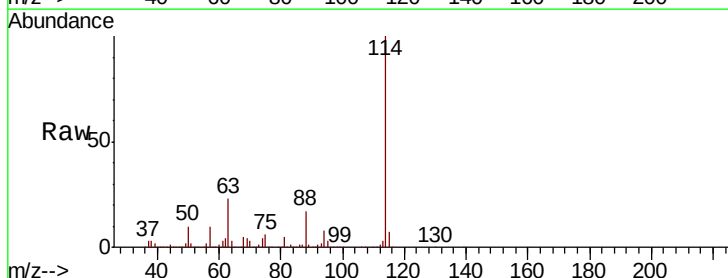
RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

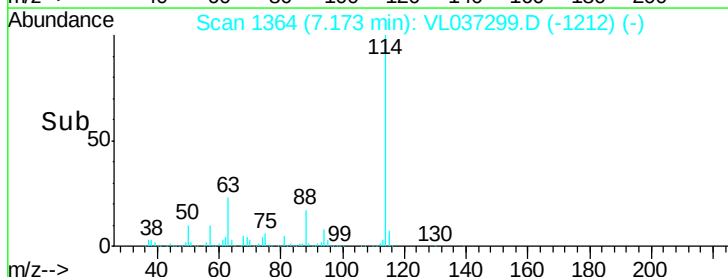
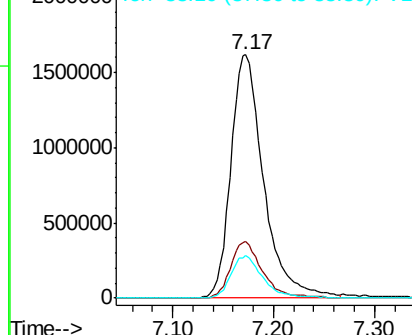
Lab File: VL037299.D

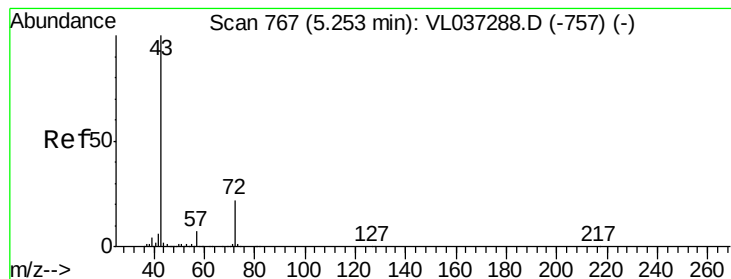
Acq: 31 Jul 2021 1:59

Tgt Ion:	114	Resp:	3673202
Ion	Ratio	Lower	Upper
114	100		
63	23.0	19.0	28.4
88	17.4	14.0	21.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.506 ppbv m

RT: 5.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VL037299.D

Acq: 31 Jul 2021 1:59

Tot Ion: 43 Resp: 79685

Ion Ratio Lower Upper

43 100

72 25.0 18.5 27.7

Instrument :

MSVOA_L

ClientSampleId :

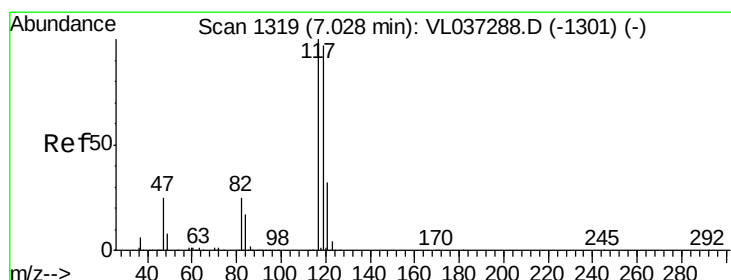
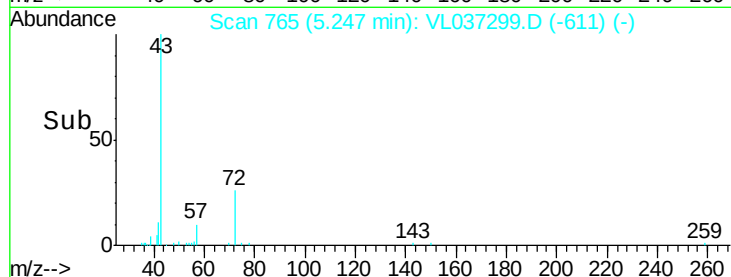
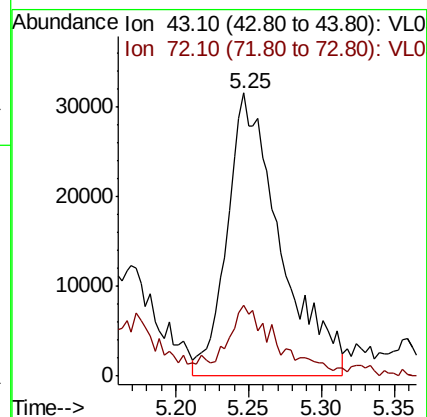
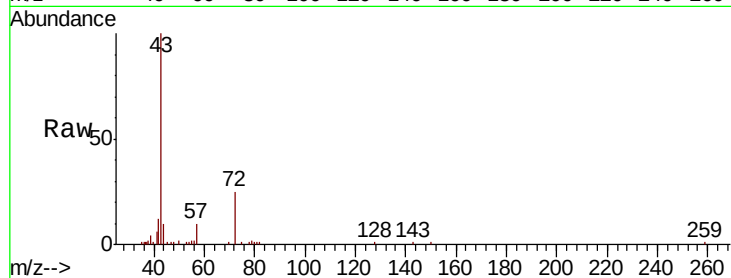
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#35

Carbon Tetrachloride

Concen: 0.089 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VL037299.D

Acq: 31 Jul 2021 1:59

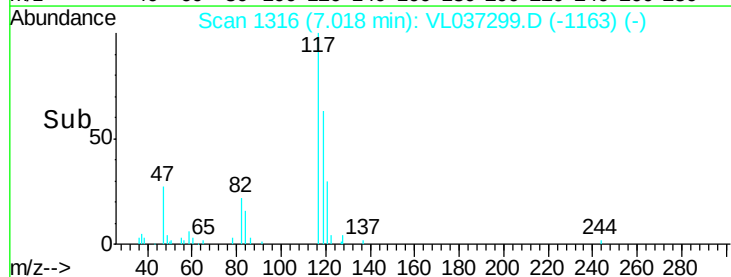
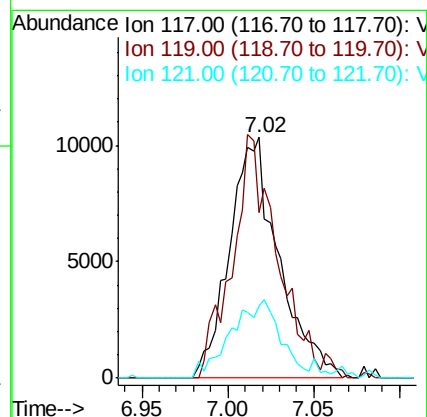
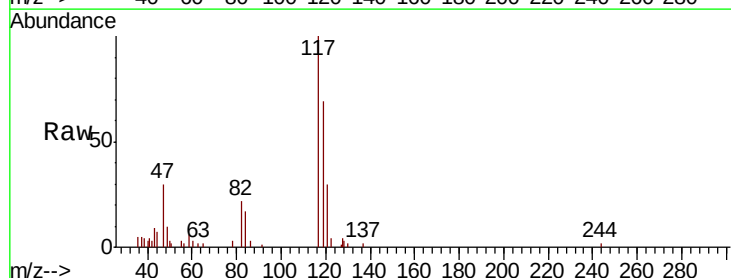
Tgt Ion: 117 Resp: 20722

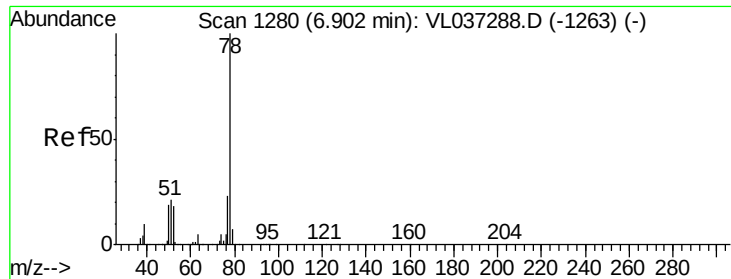
Ion Ratio Lower Upper

117 100

119 68.9 77.4 116.2#

121 29.7 25.8 38.8





#36

Benzene

Concen: 0.168 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL037299.D

Acq: 31 Jul 2021 1:59

Instrument :

MSVOA_L

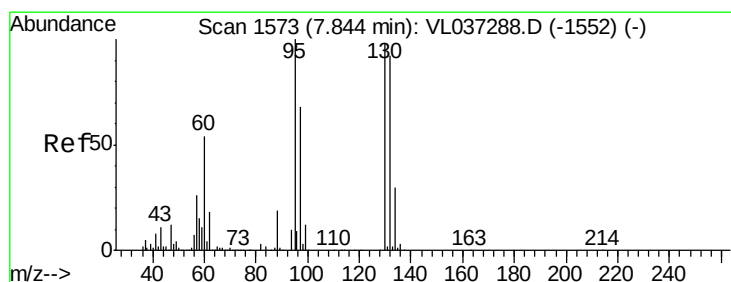
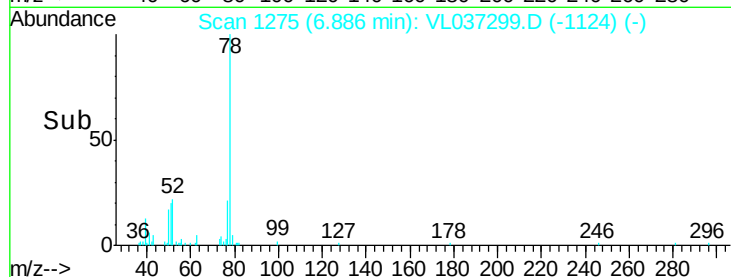
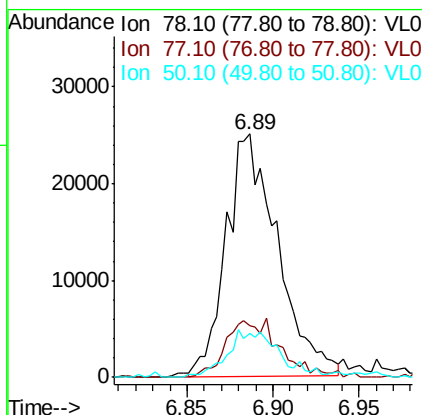
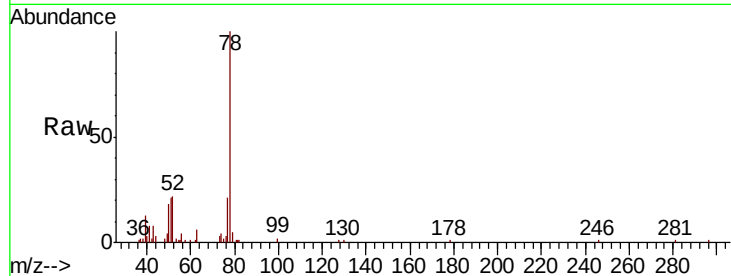
ClientSampleId :

IA-PLAY-ROOM-1DUP

Tot Ion:	78	Resp:	52117
Ion	Ratio	Lower	Upper
78	100		
77	21.8	18.3	27.5
50	17.4	15.5	23.3

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#38

Trichloroethene

Concen: 0.036 ppbv m

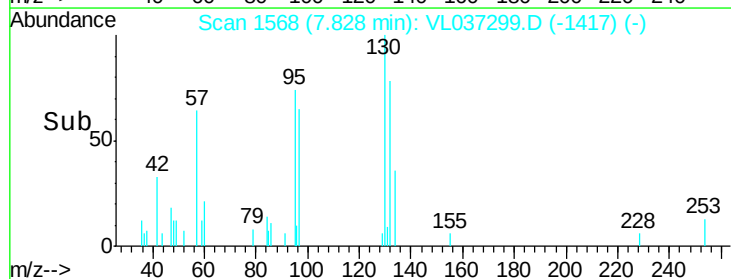
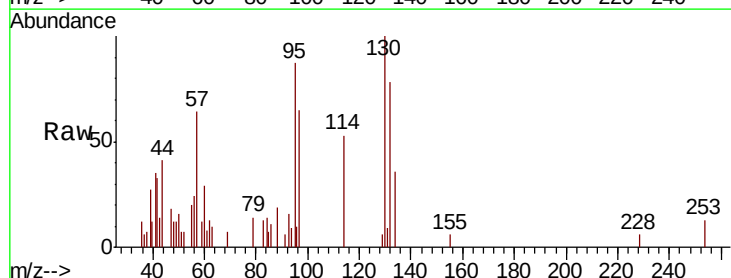
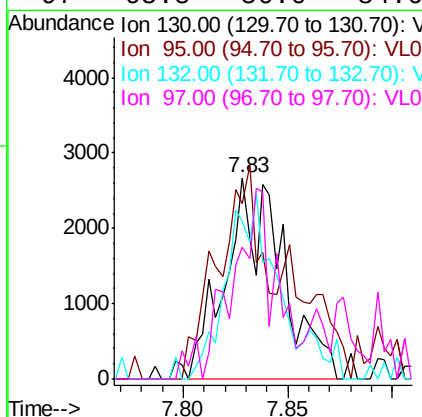
RT: 7.83 min Scan# 1568

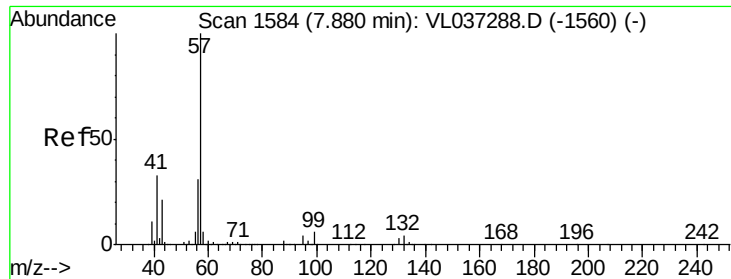
Delta R.T. -0.02 min

Lab File: VL037299.D

Acq: 31 Jul 2021 1:59

Tgt Ion:	130	Resp:	5082
Ion	Ratio	Lower	Upper
130	100		
95	87.4	82.0	123.0
132	78.2	75.0	112.6
97	65.5	56.0	84.0





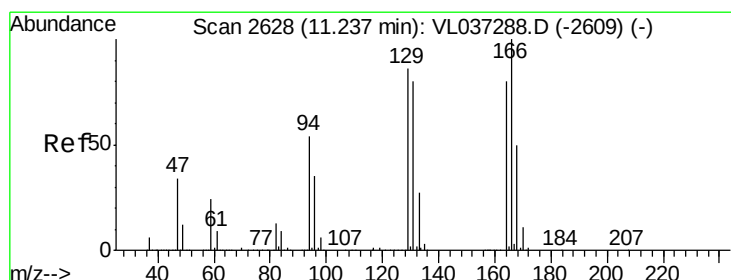
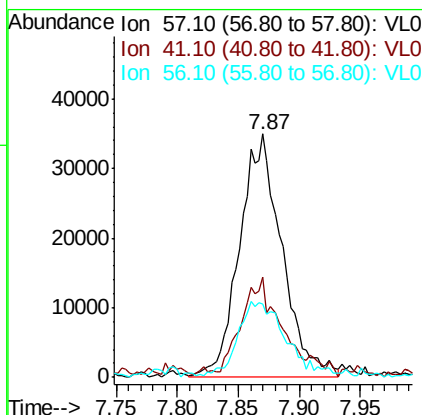
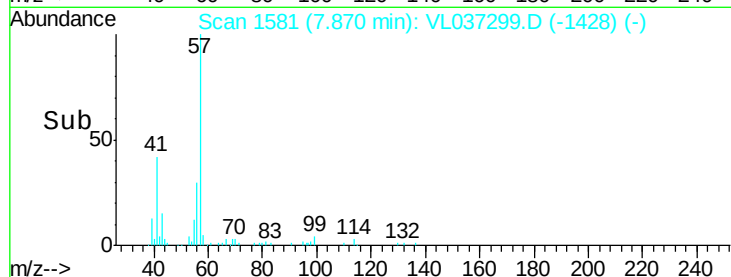
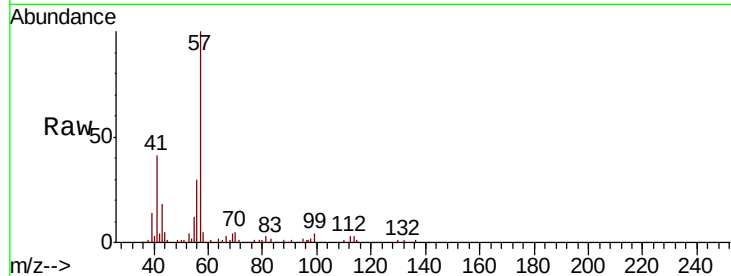
#44
 2,2,4-Trimethylpentane
 Concen: 0.166 ppbv m
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: VL037299.D
 Acq: 31 Jul 2021 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAY-ROOM-1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	43.1	26.6	40.0#
56	0.0	25.3	37.9#

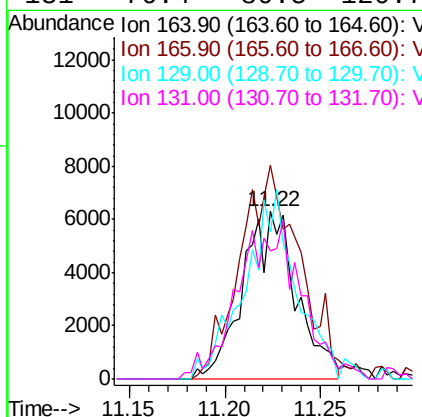
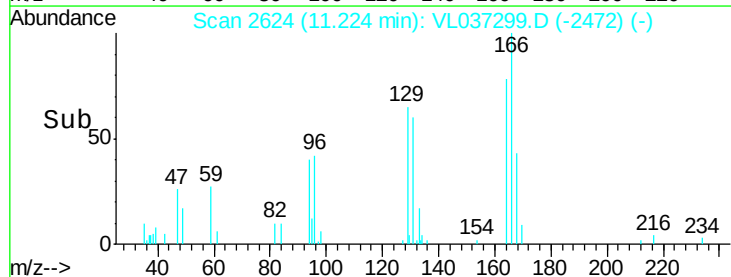
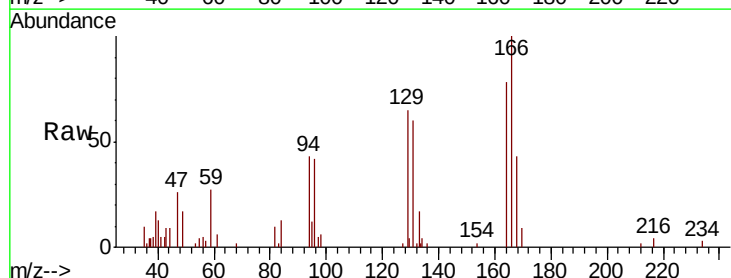
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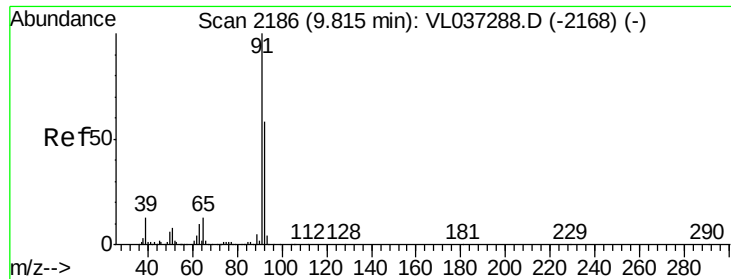
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#52
 Tetrachloroethene
 Concen: 0.089 ppbv m
 RT: 11.22 min Scan# 2624
 Delta R.T. -0.01 min
 Lab File: VL037299.D
 Acq: 31 Jul 2021 1:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.4	100.4	150.6
129	83.0	86.2	129.4#
131	76.4	80.5	120.7#





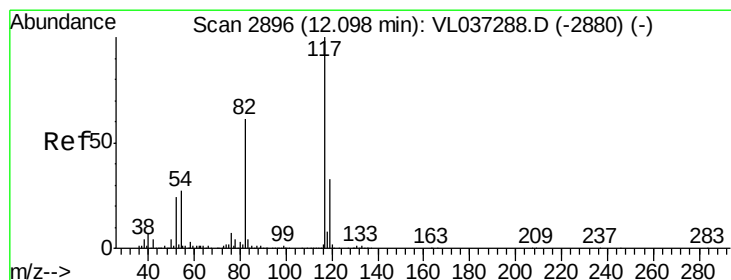
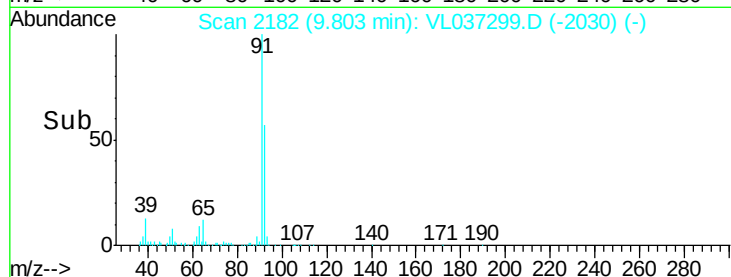
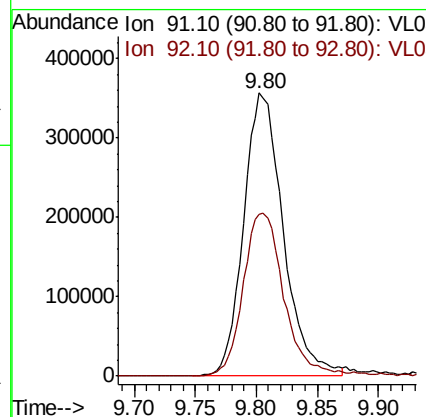
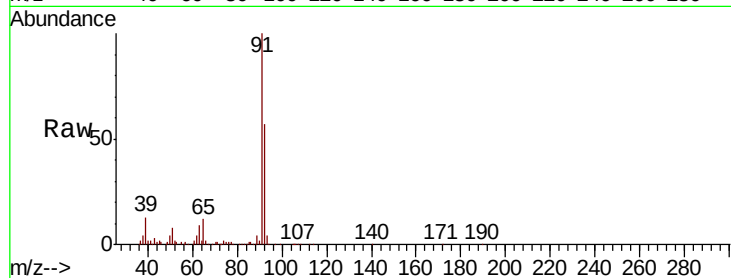
#53
Toluene
Concen: 2.190 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. -0.01 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-1DUP

Tot Ion	91	Resp	800868
Ion Ratio	100	Lower	Upper
91	100		
92	59.7	48.2	72.2

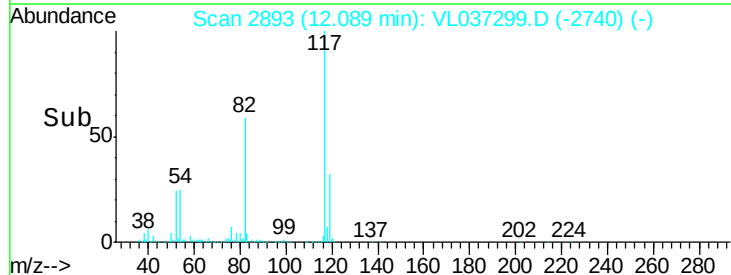
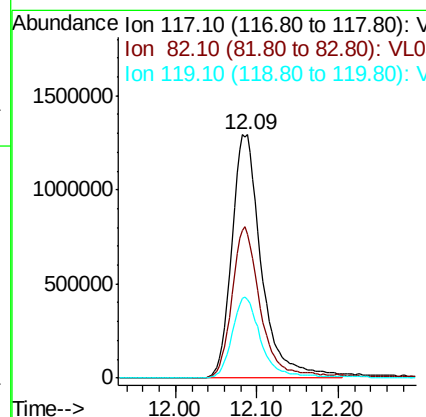
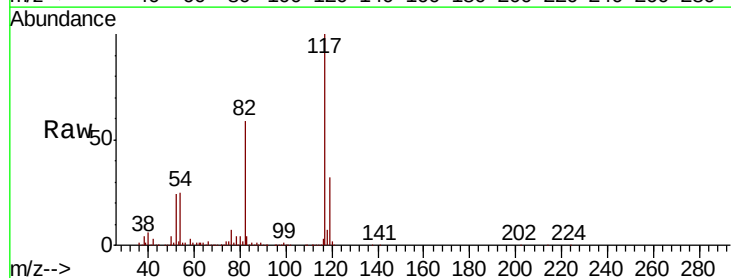
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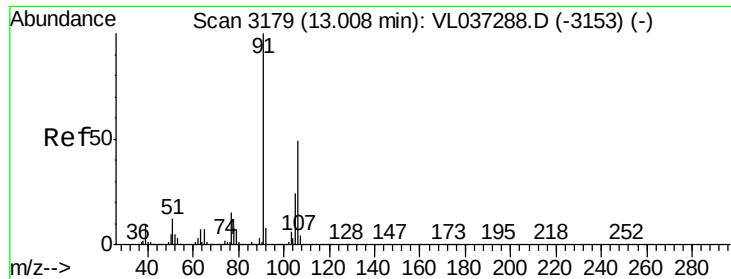
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Tgt Ion	117	Resp	3315842
Ion Ratio	100	Lower	Upper
117	100		
82	61.0	47.2	70.8
119	33.3	45.8	68.8#





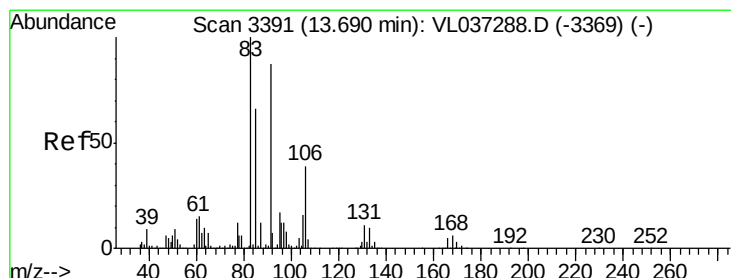
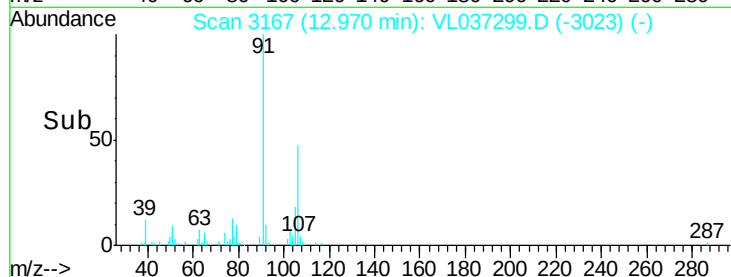
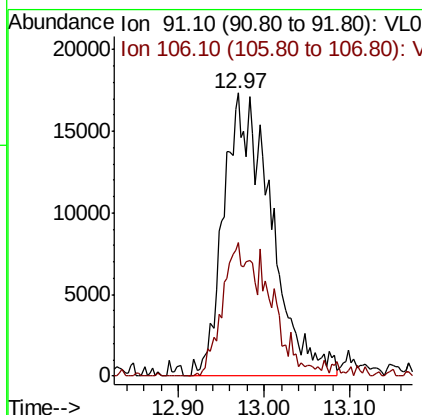
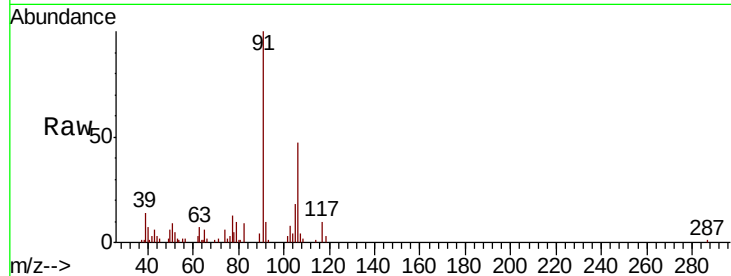
#59
m/p-Xylene
Concen: 0.170 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-1DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.3	55.9#

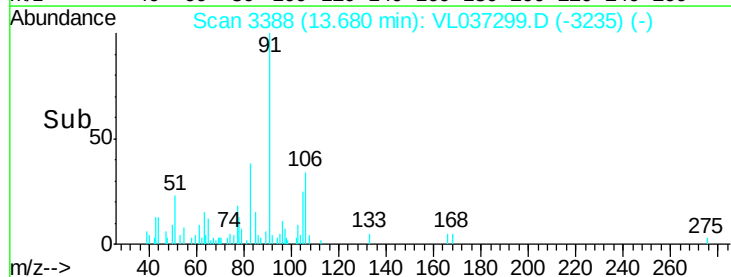
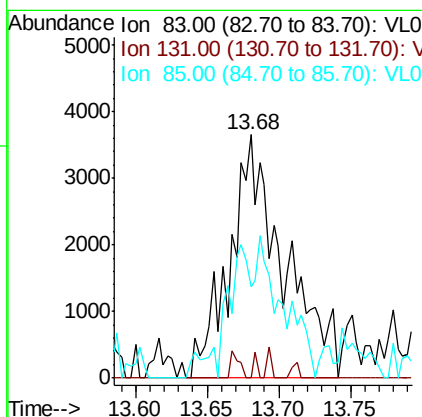
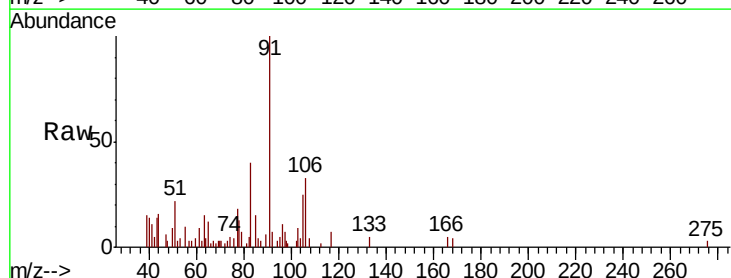
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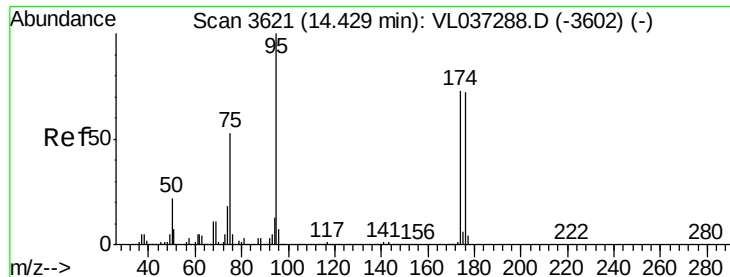
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#63
1,1,2,2-Tetrachloroethane
Concen: 0.036 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL037299.D
Acq: 31 Jul 2021 1:59

Tgt Ion	Ratio	Lower	Upper
83	100		
131	2.6	5.5	16.5#
85	0.0	33.6	100.8#





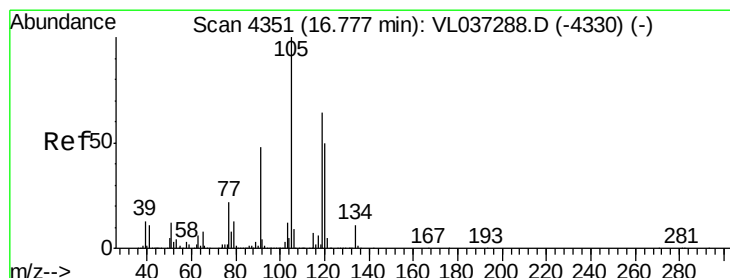
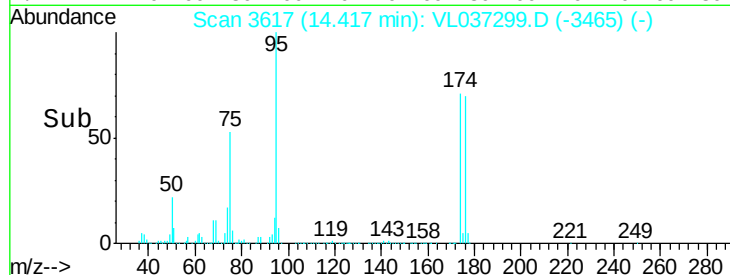
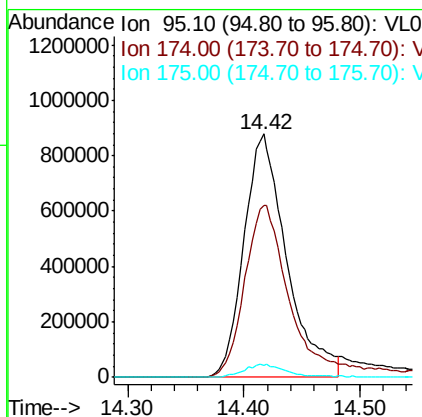
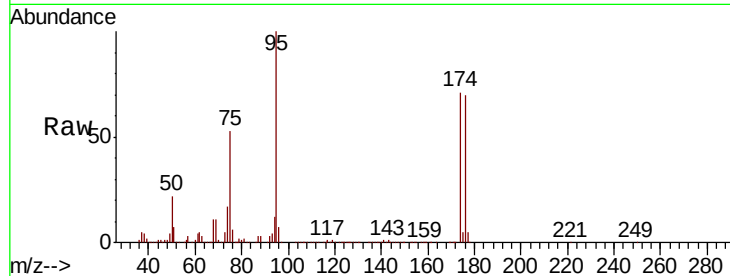
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.345 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL037299.D
 Acq: 31 Jul 2021 1:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAY-ROOM-1DUP

Tot Ion	Ratio	Lower	Upper
95	100		
174	80.4	59.8	89.6
175	5.2	4.5	6.7

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.127 ppbv m
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL037299.D
 Acq: 31 Jul 2021 1:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.0	40.2	60.4
91	26.6	39.0	58.6#
77	14.8	17.4	26.0#

