

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL073021\
 Data File : VL037298.D
 Acq On : 31 Jul 2021 1:17
 Operator : SY/AP
 Sample : M3121-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
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MMDadoda
 8/2/2021 8:58:05 AM

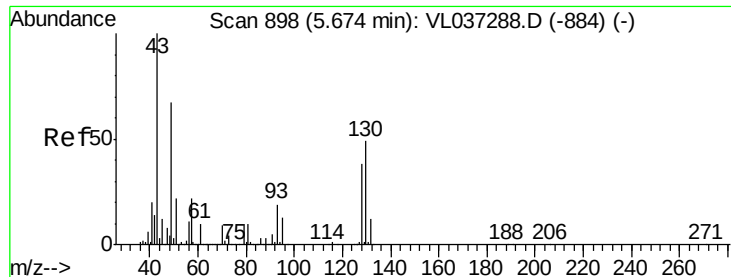
Quant Time: Aug 12 09:01:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 2021
 QLast Update : Fri Jul 30 23:19:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1208982	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3649561	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.09	117	3237465	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2260238	9.60	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	51783	0.298	ppbv	94
3) Chlorodifluoromethane	2.98	51	409008	1.688	ppbv	96
4) Chloromethane	3.13	50	45619m	0.540	ppbv	
5) Vinyl Chloride	3.25	62	3696m	0.040	ppbv	
9) Propene	3.01	41	38320	0.470	ppbv	87
11) Trichlorofluoromethane	3.95	101	53276m	0.246	ppbv	
13) Ethanol	3.61	45	247013m	13.791	ppbv	
15) Acetone	3.84	43	697000	3.201	ppbv	95
19) Isopropyl Alcohol	3.97	45	267133m	3.171	ppbv	
20) Methylene Chloride	4.34	84	451855	5.362	ppbv	97
26) Hexane	5.68	57	413545	2.449	ppbv #	54
29) Chloroform	5.74	83	24618	0.102	ppbv	91
30) Cyclohexane	7.13	84	25999m	0.197	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	8677m	0.036	ppbv	
34) 2-Butanone	5.25	43	64163	0.410	ppbv	92
35) Carbon Tetrachloride	7.01	117	21019m	0.091	ppbv	
36) Benzene	6.89	78	53035	0.172	ppbv #	93
38) Trichloroethene	7.83	130	5845m	0.042	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	86527	0.171	ppbv #	90
52) Tetrachloroethene	11.23	164	13044m	0.096	ppbv	
53) Toluene	9.81	91	808258	2.225	ppbv	99
59) m/p-Xylene	12.96	91	68221m	0.178	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	12386m	0.048	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	61177m	0.139	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-1

Tot Ion: 49 Resp: 1208982

Ion Ratio Lower Upper

49 100

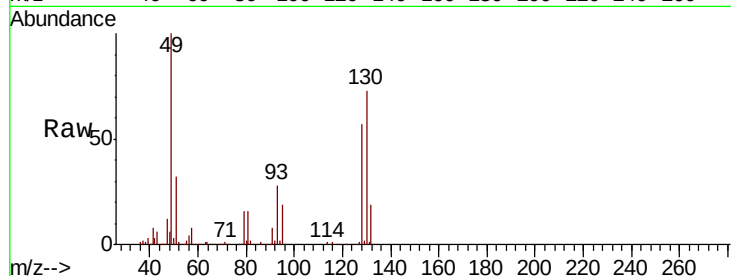
128 58.1 30.6 92.0

130 74.9 37.8 113.4

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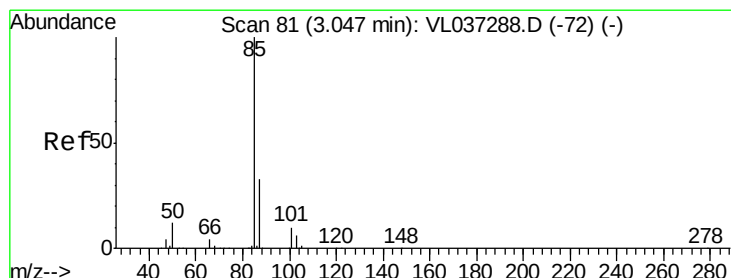
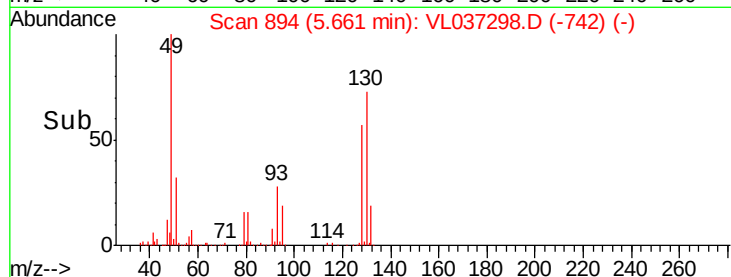
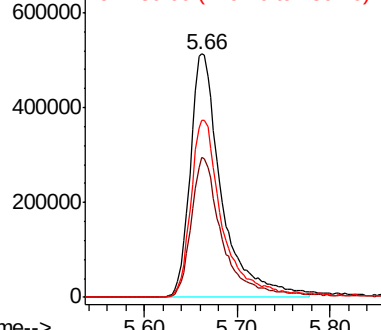
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.298 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037298.D

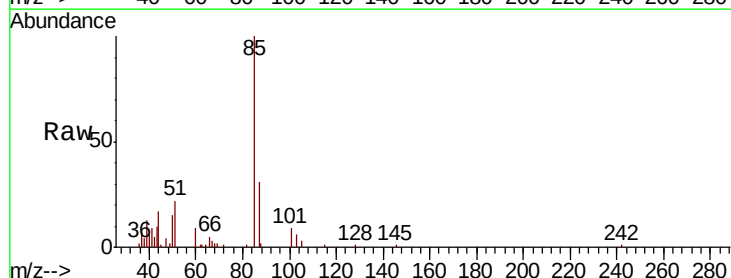
Acq: 31 Jul 2021 1:17

Tgt Ion: 85 Resp: 51783

Ion Ratio Lower Upper

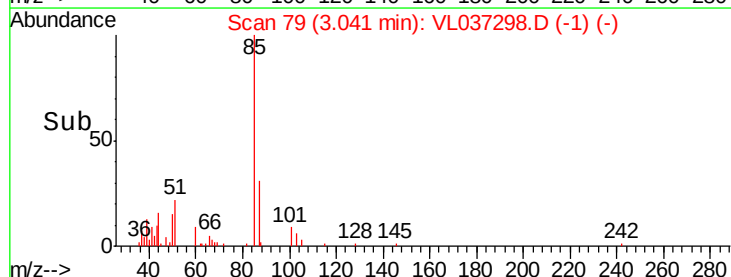
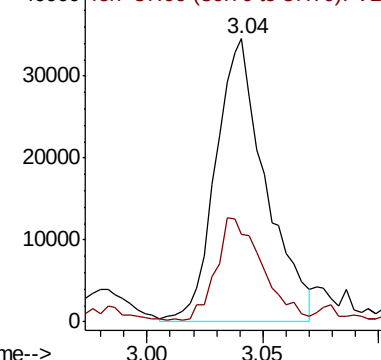
85 100

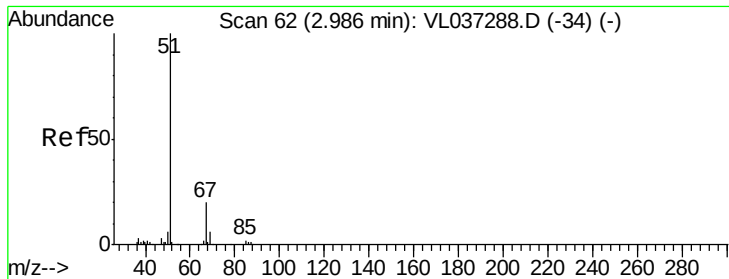
87 30.1 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.688 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-1

Tot Ion: 51 Resp: 409008

Ion Ratio Lower Upper

51 100

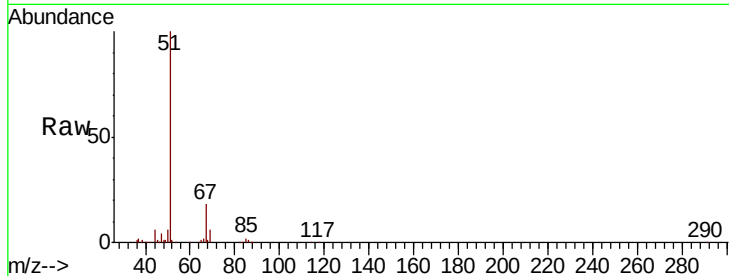
67 17.3 15.2 22.8

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

200000

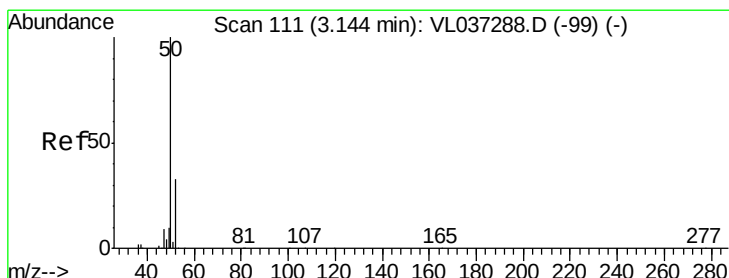
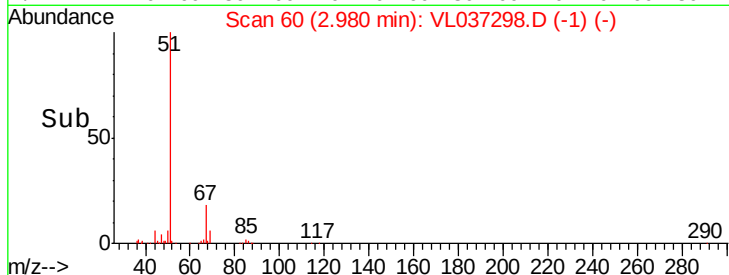
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 0.540 ppbv m

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037298.D

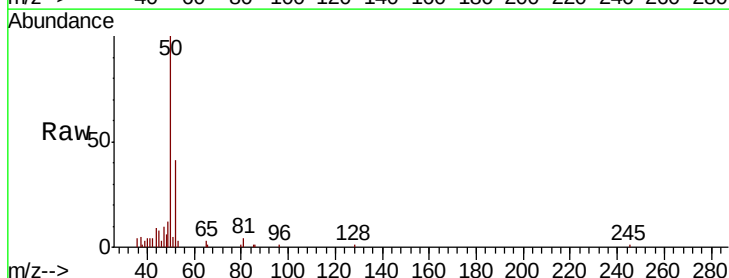
Acq: 31 Jul 2021 1:17

Tgt Ion: 50 Resp: 45619

Ion Ratio Lower Upper

50 100

52 40.8 26.2 39.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

30000

25000

20000

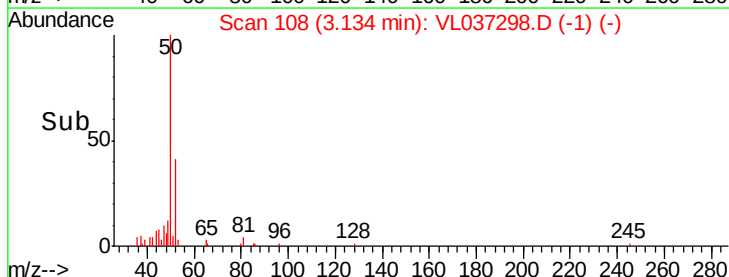
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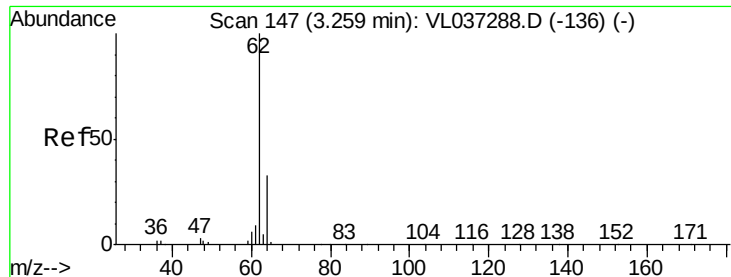
10000

5000

0

Time-->





#5

Vinyl Chloride

Concen: 0.040 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-1

Tot Ion: 62 Resp: 3696

Ion Ratio Lower Upper

62 100

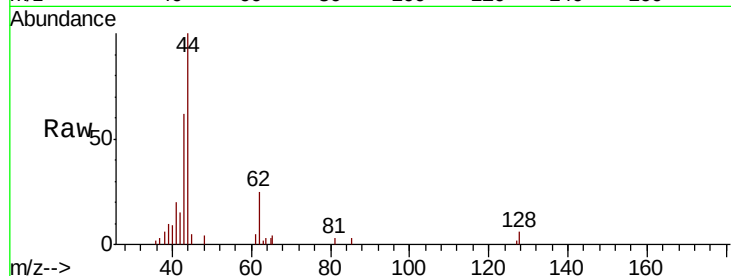
64 12.8 26.1 39.1#

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3000

2500

2000

1500

1000

500

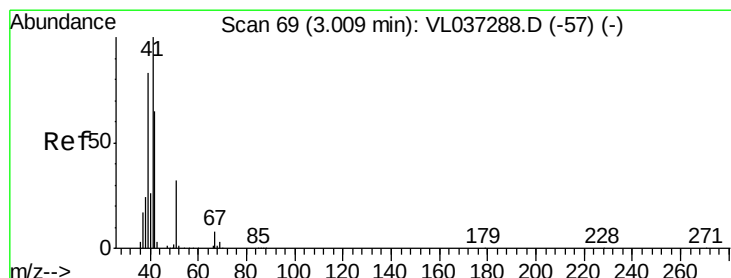
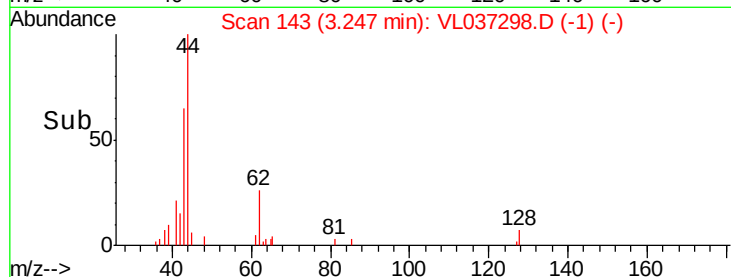
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Time-->

3.20

3.25

3.30



#9

Propene

Concen: 0.470 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL037298.D

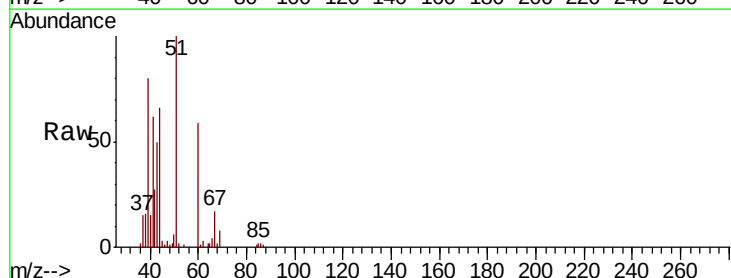
Acq: 31 Jul 2021 1:17

Tgt Ion: 41 Resp: 38320

Ion Ratio Lower Upper

41 100

42 57.1 54.0 81.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

25000

20000

15000

10000

5000

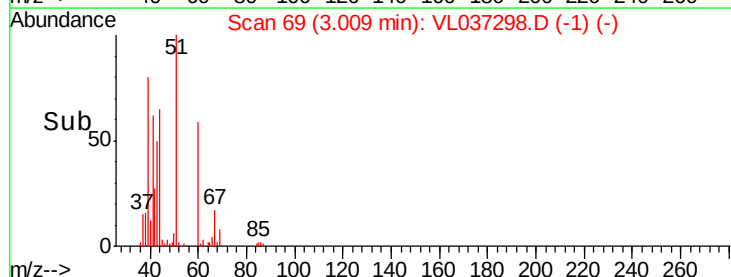
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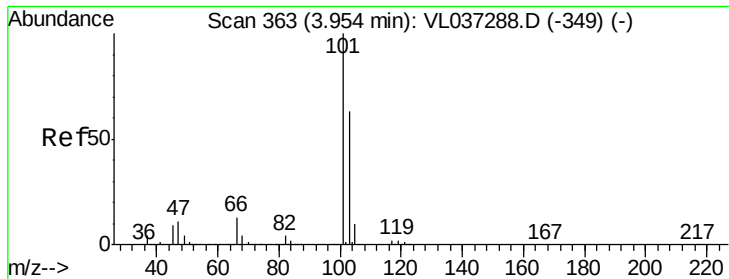
Time-->

2.95

3.00

3.05





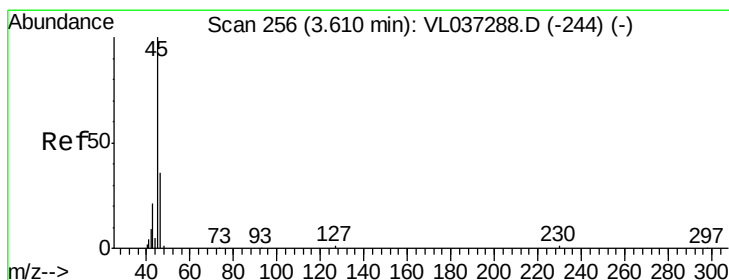
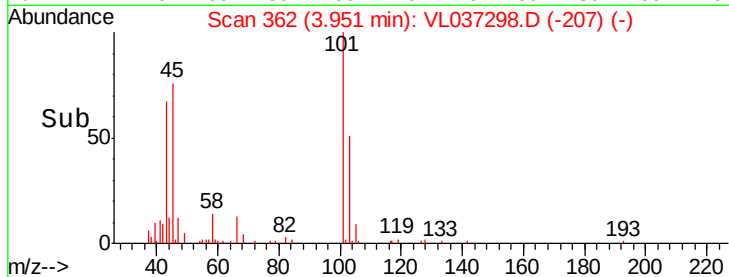
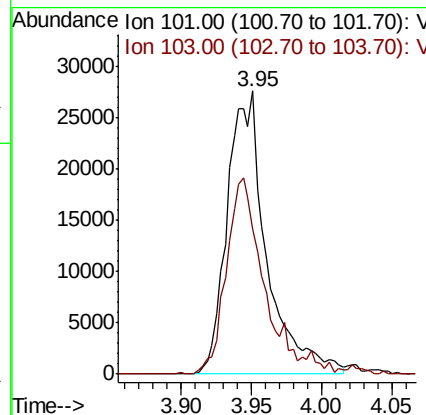
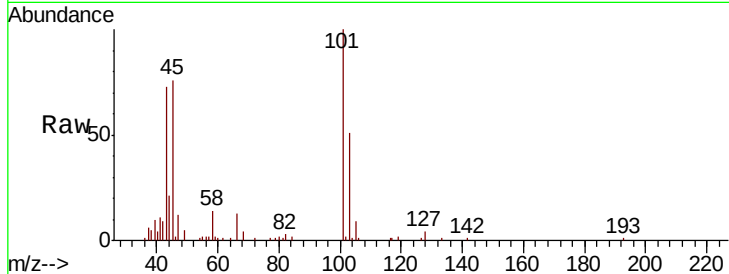
#11
 Trichlorofluoromethane
 Concen: 0.246 ppbv m
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL037298.D
 Acq: 31 Jul 2021 1:17

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

Tot Ion: 101 Resp: 53276
 Ion Ratio Lower Upper
 101 100
 103 51.4 50.6 75.8

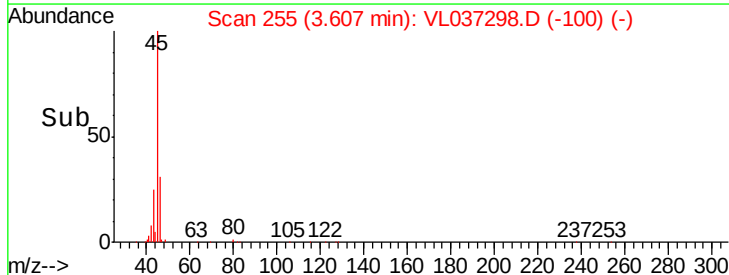
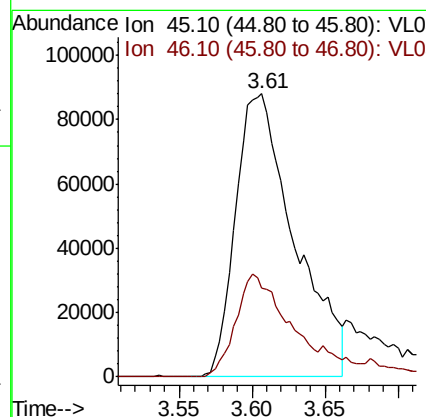
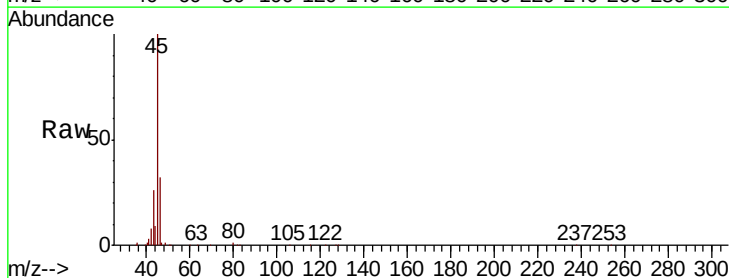
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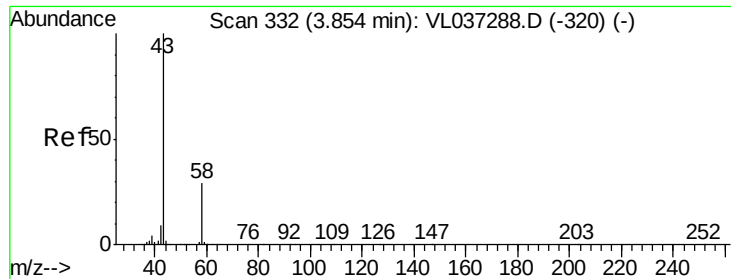
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#13
 Ethanol
 Concen: 13.791 ppbv m
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL037298.D
 Acq: 31 Jul 2021 1:17

Tgt Ion: 45 Resp: 247013
 Ion Ratio Lower Upper
 45 100
 46 40.9 16.2 64.8





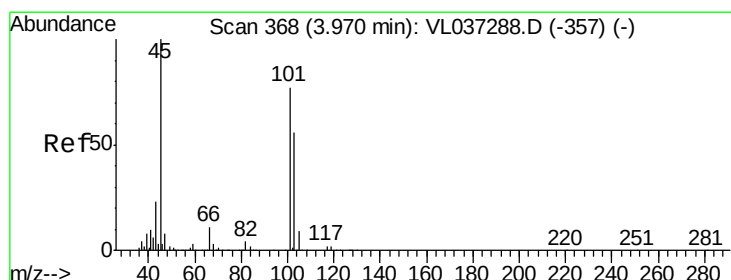
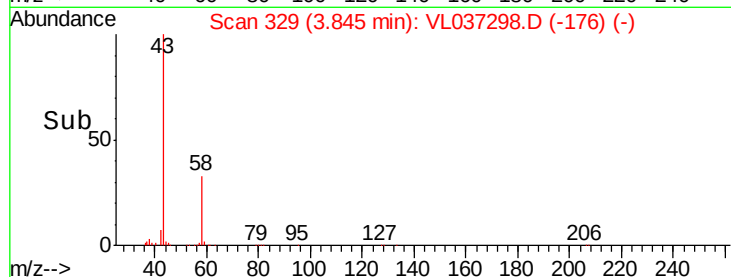
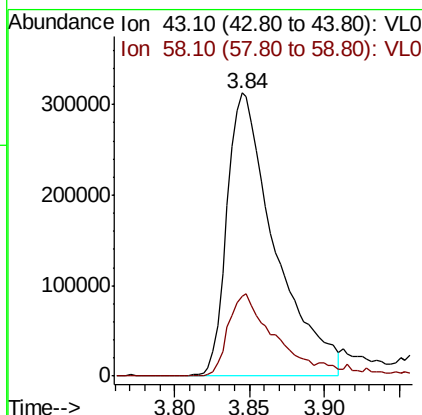
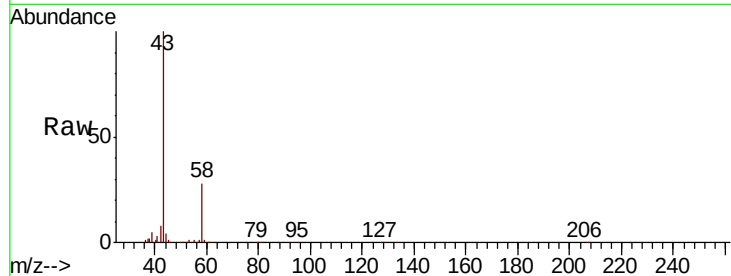
#15
Acetone
Concen: 3.201 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

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

Tot Ion	43	Resp	697000
Ion Ratio	100	Lower	Upper
43	100		
58	33.1	24.2	36.4

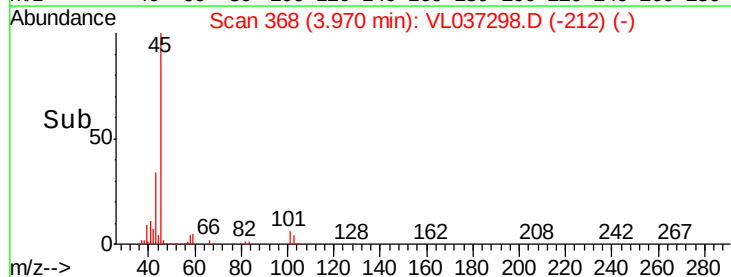
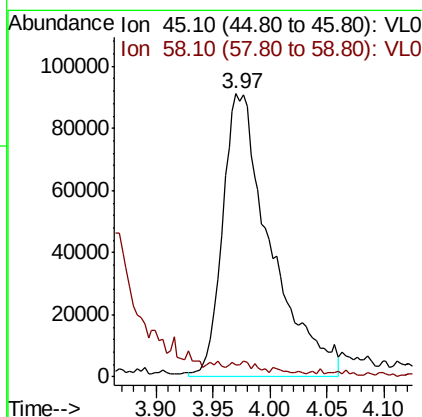
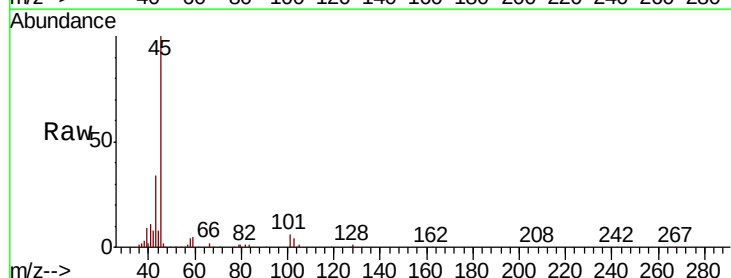
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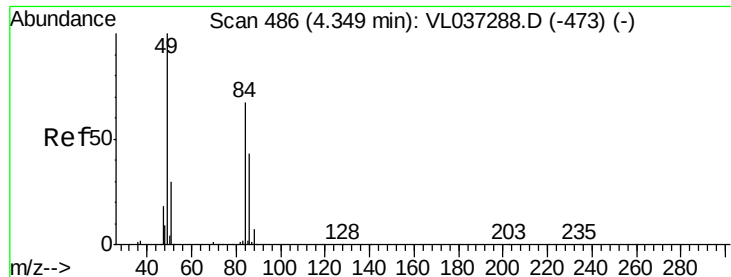
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#19
Isopropyl Alcohol
Concen: 3.171 ppbv m
RT: 3.97 min Scan# 368
Delta R.T. 0.00 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

Tgt Ion	45	Resp	267133
Ion Ratio	100	Lower	Upper
45	100		
58	0.0	2.2	3.2#





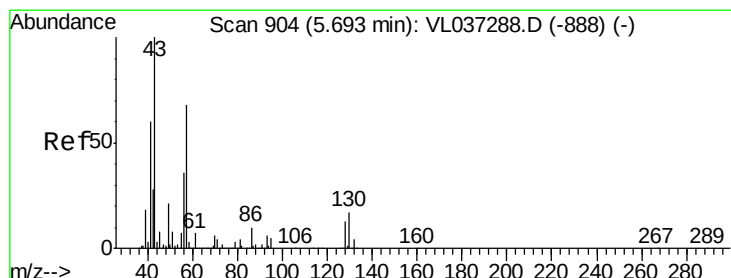
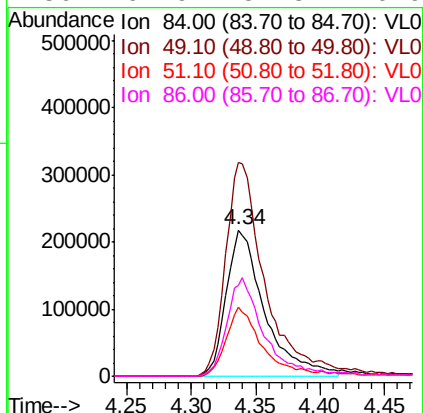
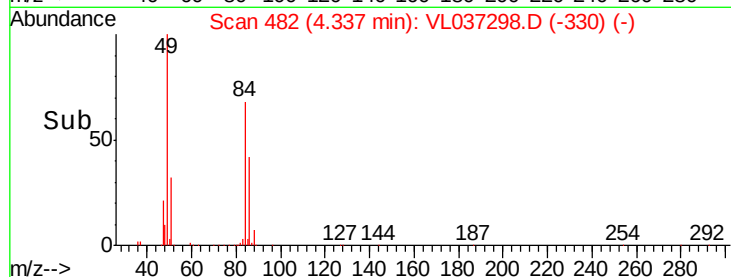
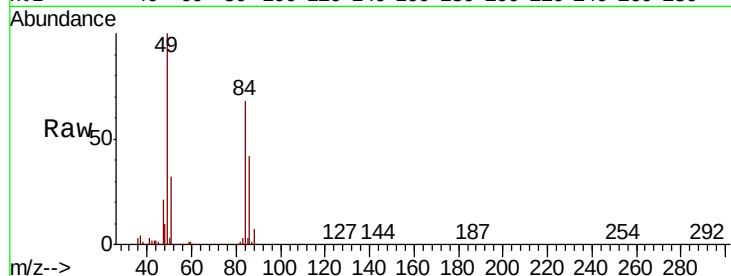
#20
Methylene Chloride
Concen: 5.362 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

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

Tot Ion	Ratio	Lower	Upper
84	100		
49	145.8	120.2	180.4
51	46.7	36.5	54.7
86	61.9	51.3	76.9

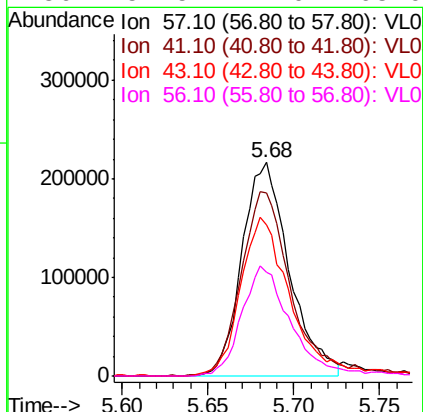
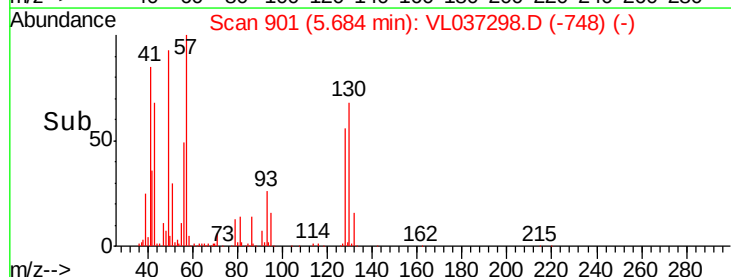
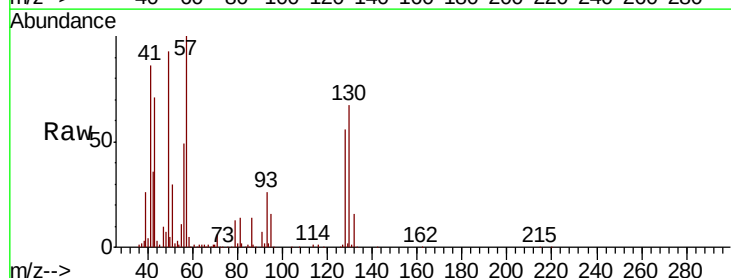
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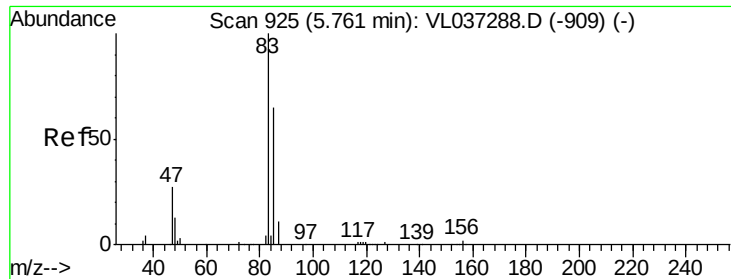
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#26
Hexane
Concen: 2.449 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.4	71.0	106.6
43	81.4	155.0	232.4#
56	54.5	42.0	63.0





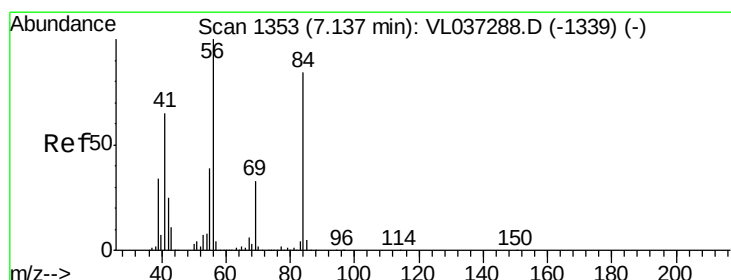
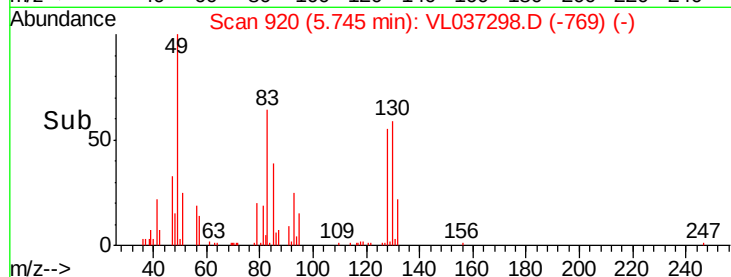
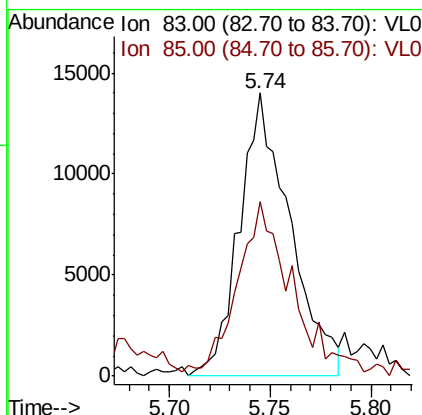
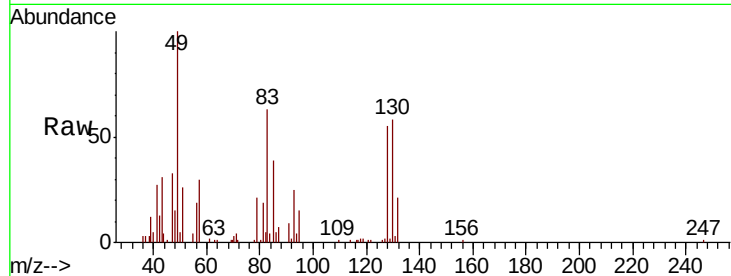
#29
Chloroform
Concen: 0.102 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.02 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

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

Tot Ion	83	Resp	24618
Ion Ratio	Lower	Upper	
83	100		
85	57.9	51.9	77.9

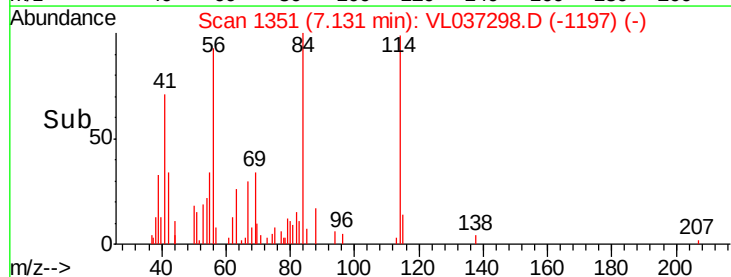
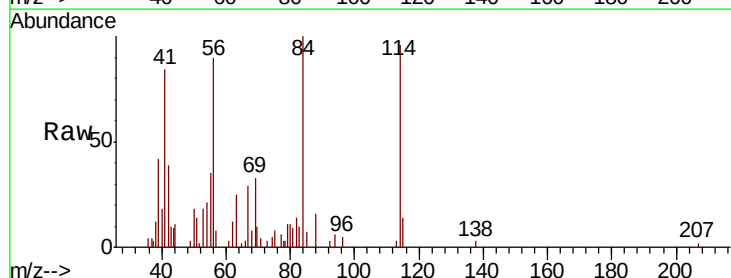
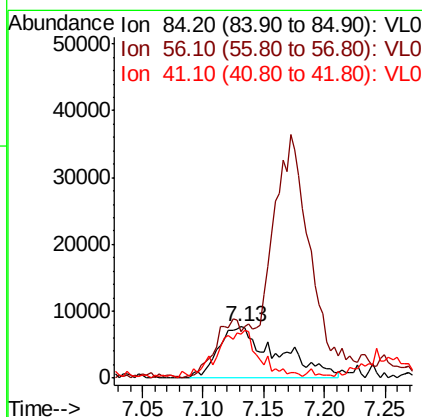
Manual Integrations
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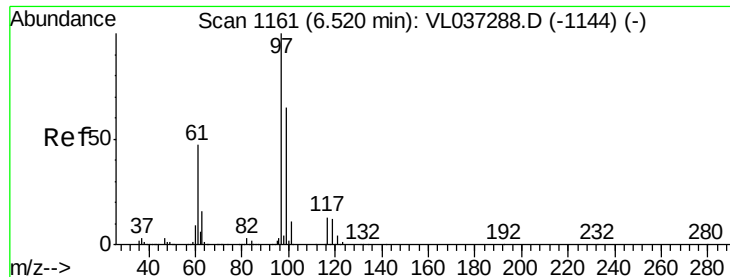
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#30
Cyclohexane
Concen: 0.197 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

Tgt Ion	84	Resp	25999
Ion Ratio	Lower	Upper	
84	100		
56	0.0	104.1	156.1#
41	72.0	64.7	97.1





#32

1,1,1-Trichloroethane

Concen: 0.036 ppbv m

RT: 6.50 min Scan# 1156

Delta R.T. -0.02 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Instrument :

MSVOA_L

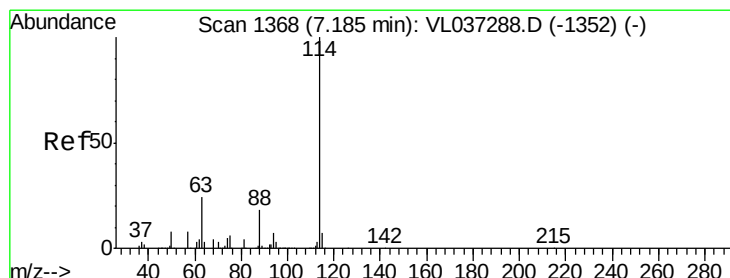
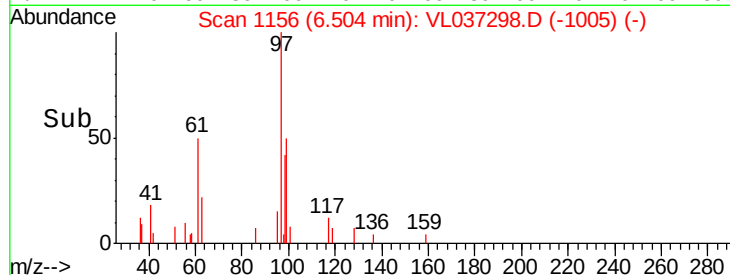
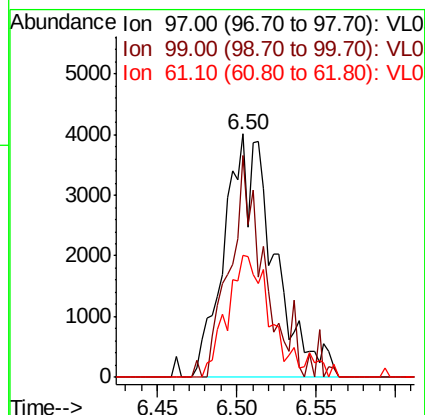
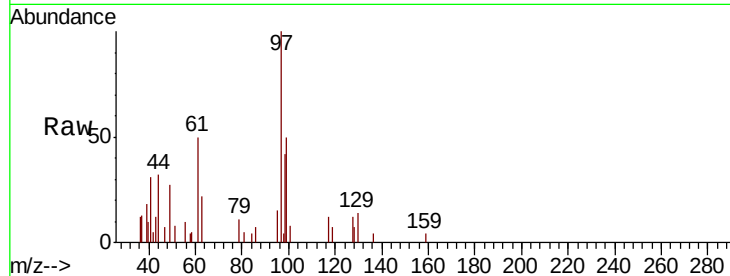
ClientSampleId :

IA-PLAY-ROOM-1

Tot Ion:	97	Resp:	8677
Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.5	78.7
61	45.9	38.2	57.4

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

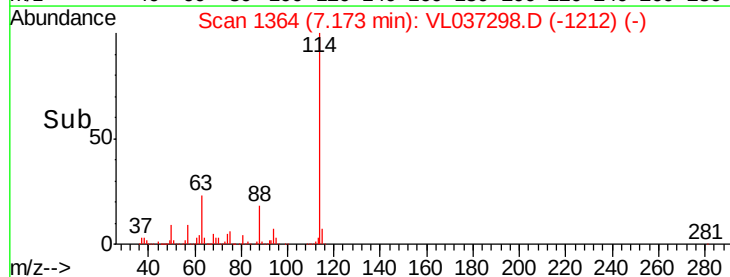
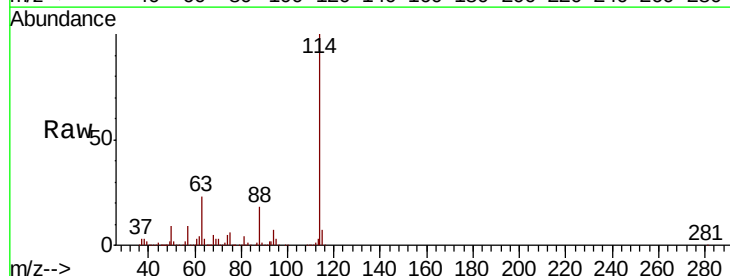
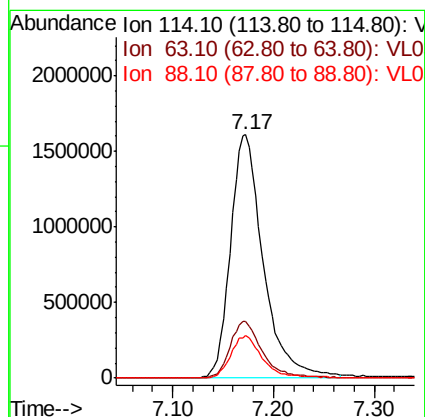
RT: 7.17 min Scan# 1364

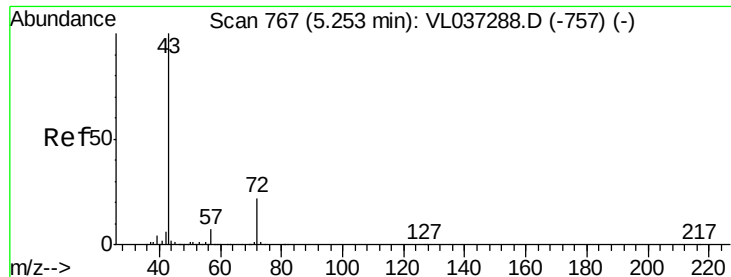
Delta R.T. -0.01 min

Lab File: VL037298.D

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Tgt Ion:	114	Resp:	3649561
Ion	Ratio	Lower	Upper
114	100		
63	23.3	19.0	28.4
88	17.2	14.0	21.0





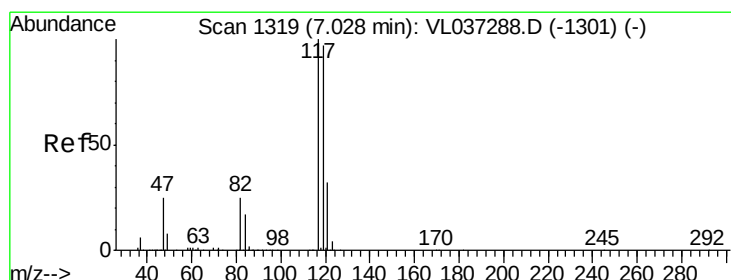
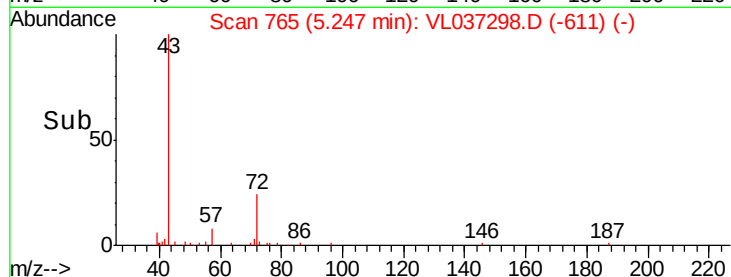
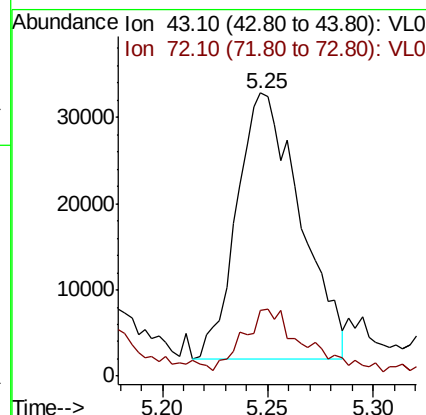
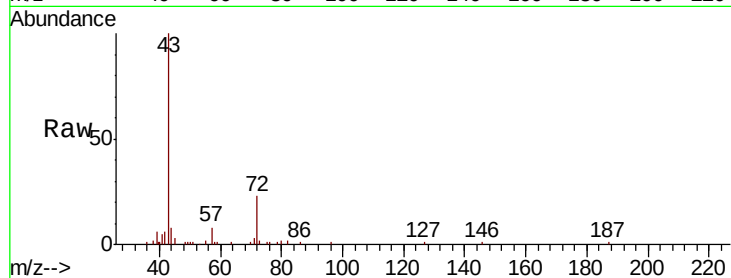
#34
2-Butanone
Concen: 0.410 ppbv
RT: 5.25 min Scan# 765
Delta R.T. -0.01 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

Instrument :
MSVOA_L
ClientSampled :
IA-PLAY-ROOM-1

Tot Ion: 43 Resp: 64163
Ion Ratio Lower Upper
43 100
72 27.1 18.5 27.7

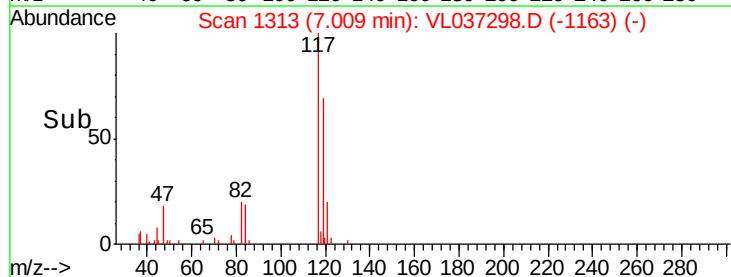
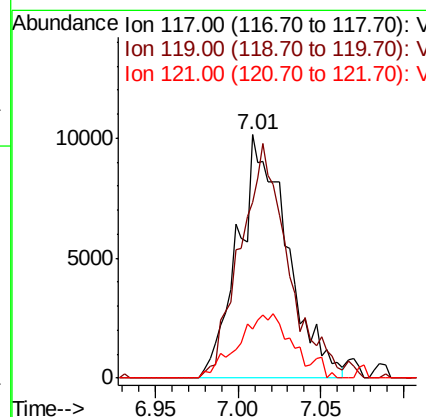
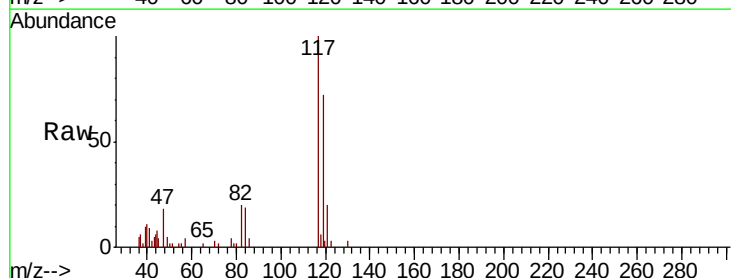
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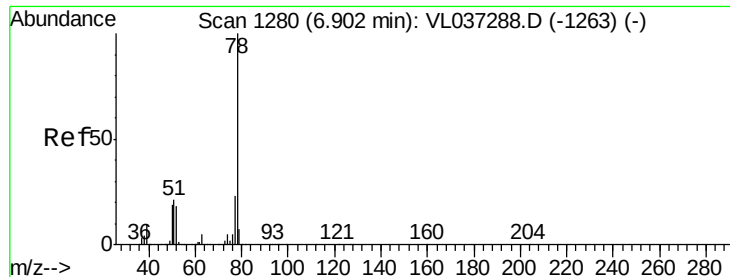
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#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. -0.02 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

Tgt Ion: 117 Resp: 21019
Ion Ratio Lower Upper
117 100
119 72.0 77.4 116.2#
121 20.1 25.8 38.8#





#36

Benzene

Concen: 0.172 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Instrument :

MSVOA_L

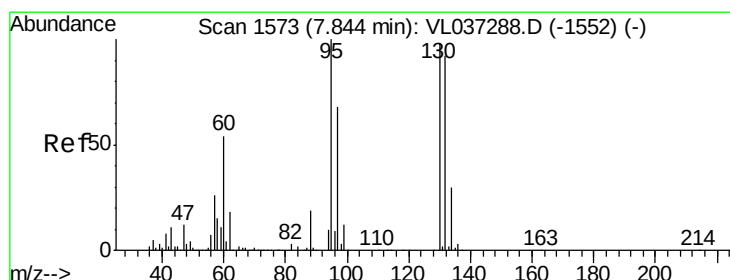
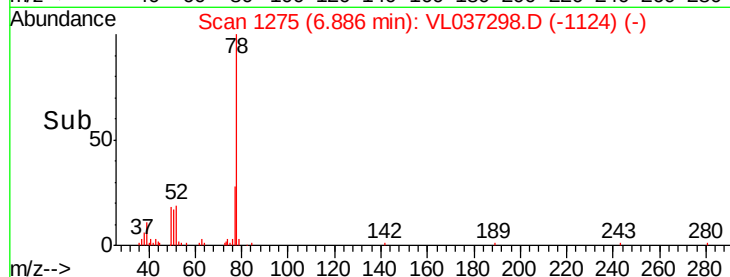
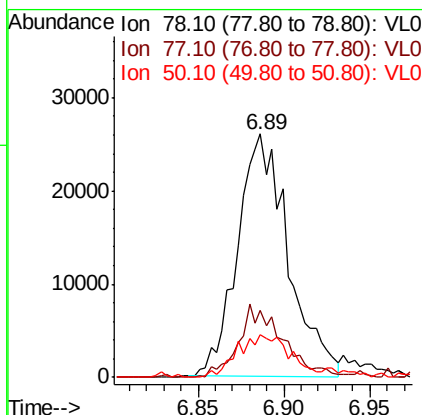
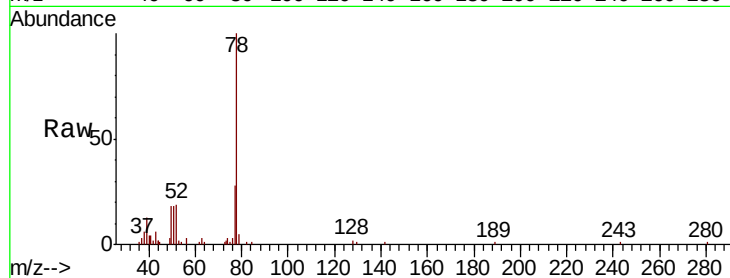
ClientSampleId :

IA-PLAY-ROOM-1

Tot Ion:	78	Resp:	53035
Ion Ratio	Lower	Upper	
78	100		
77	27.9	18.3	27.5#
50	17.7	15.5	23.3

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#38

Trichloroethene

Concen: 0.042 ppbv m

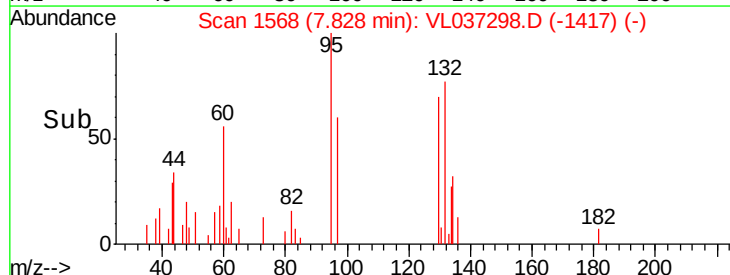
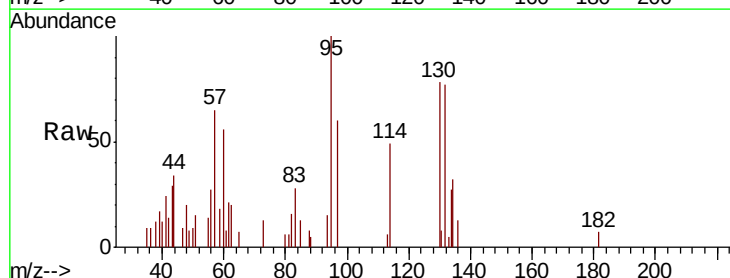
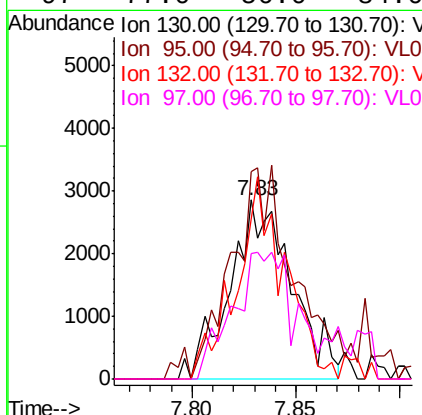
RT: 7.83 min Scan# 1568

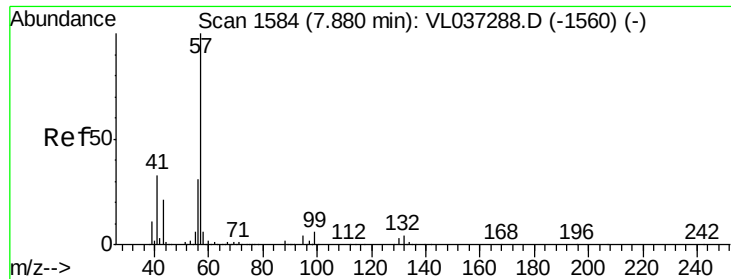
Delta R.T. -0.02 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Tgt Ion:	130	Resp:	5845
Ion Ratio	Lower	Upper	
130	100		
95	128.3	82.0	123.0#
132	99.0	75.0	112.6
97	77.0	56.0	84.0





#44

2,2,4-Trimethylpentane

Concen: 0.171 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Instrument :

MSVOA_L

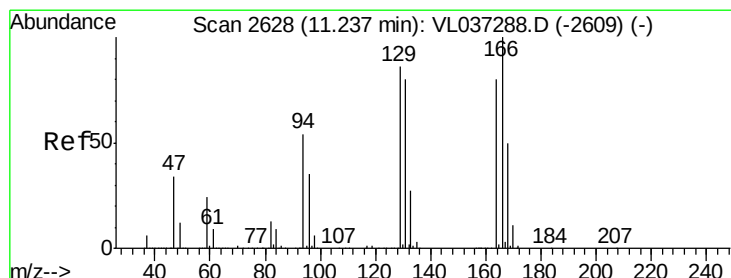
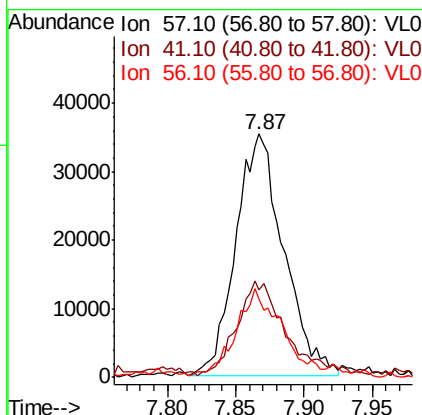
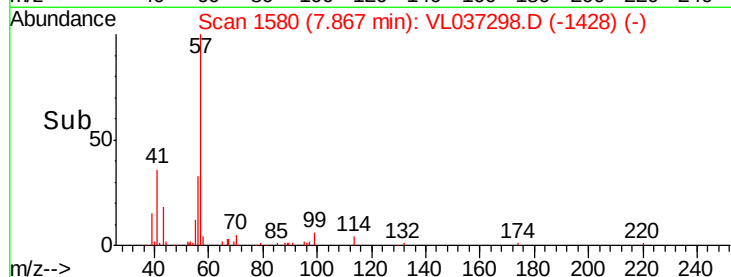
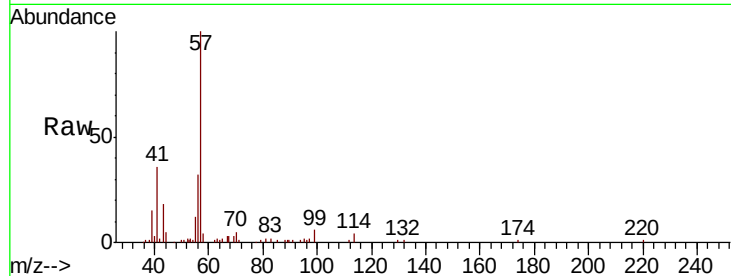
ClientSampleId :

IA-PLAY-ROOM-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	37.5	26.6	40.0
56	38.4	25.3	37.9#

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#52

Tetrachloroethene

Concen: 0.096 ppbv m

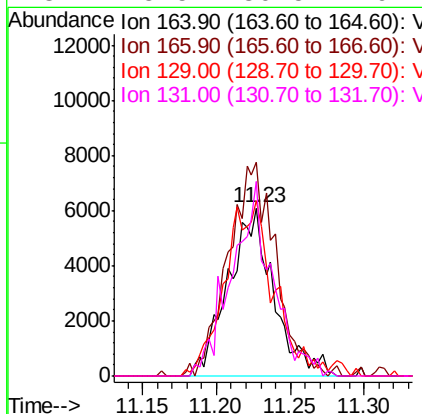
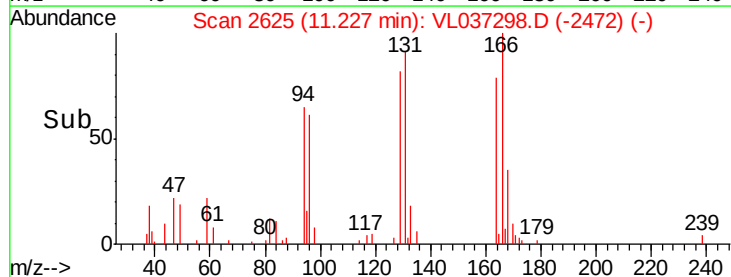
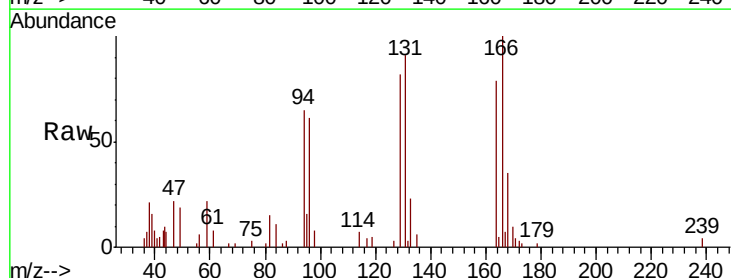
RT: 11.23 min Scan# 2625

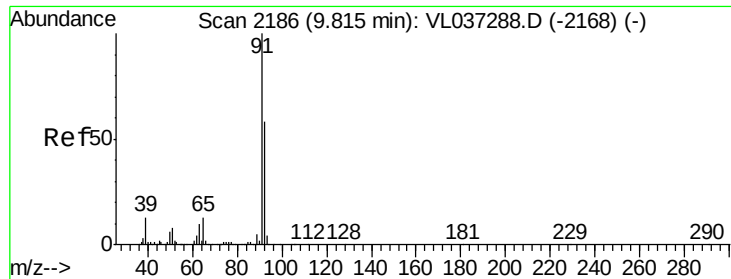
Delta R.T. -0.01 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.1	100.4	150.6
129	104.5	86.2	129.4
131	115.5	80.5	120.7





#53

Toluene

Concen: 2.225 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-1

Tot Ion: 91 Resp: 808258

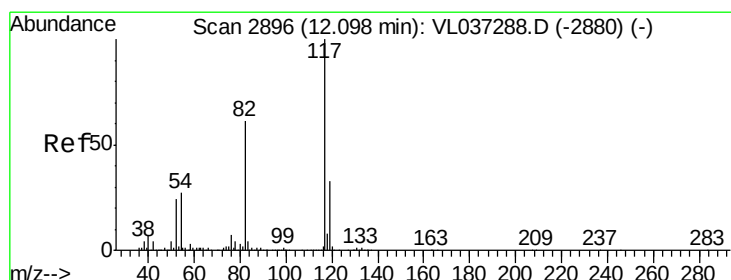
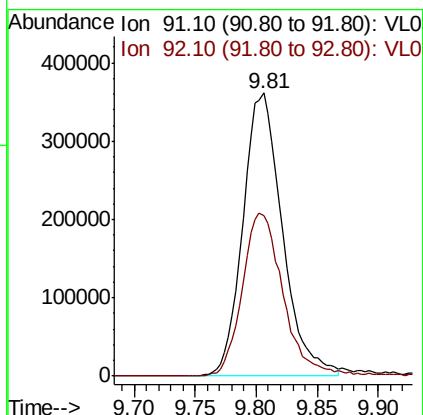
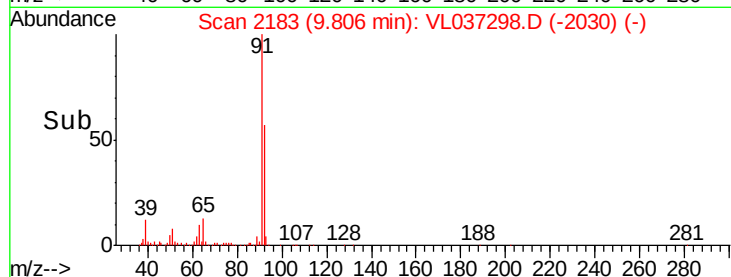
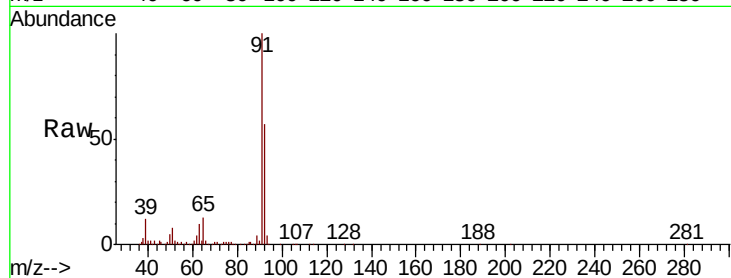
Ion Ratio Lower Upper

91 100

92 60.8 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL037298.D

Acq: 31 Jul 2021 1:17

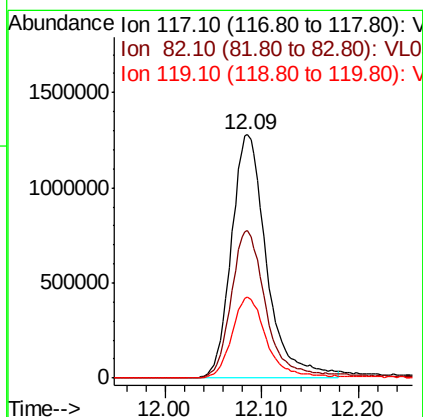
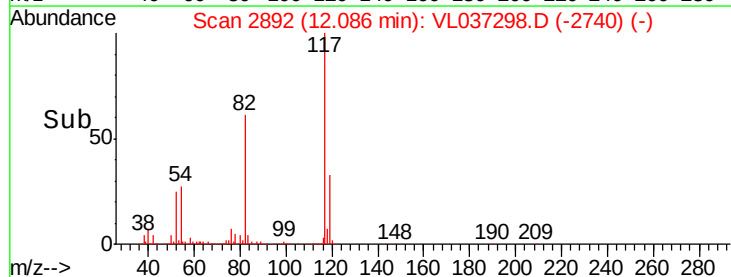
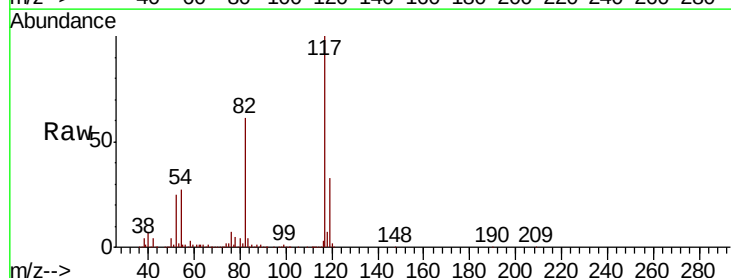
Tgt Ion: 117 Resp: 3237465

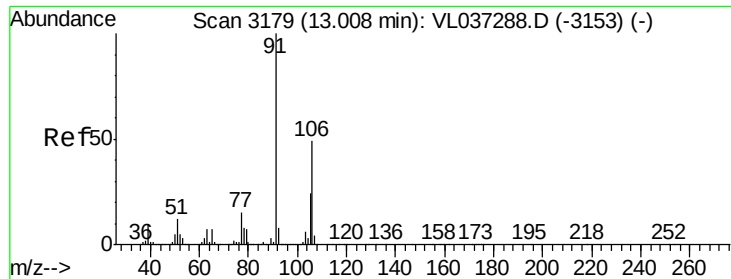
Ion Ratio Lower Upper

117 100

82 62.1 47.2 70.8

119 34.2 45.8 68.8#





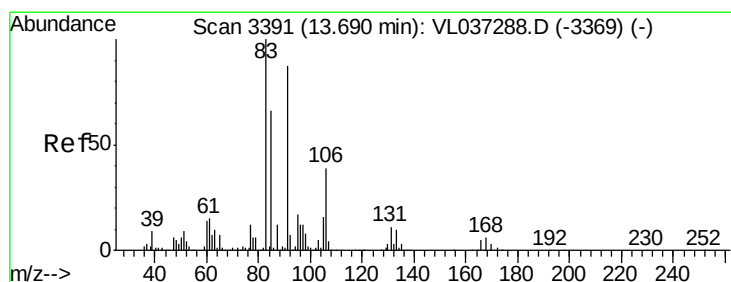
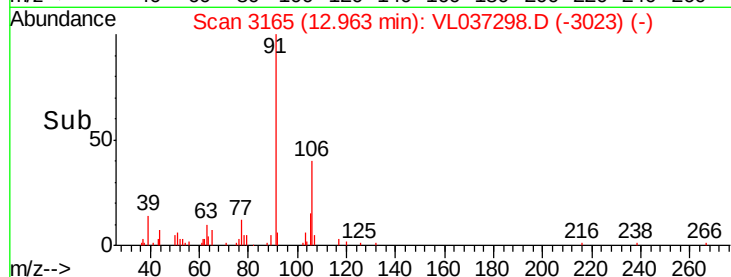
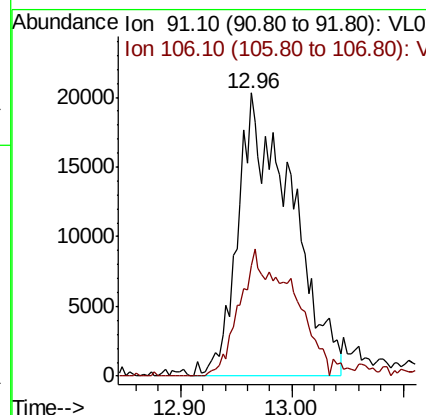
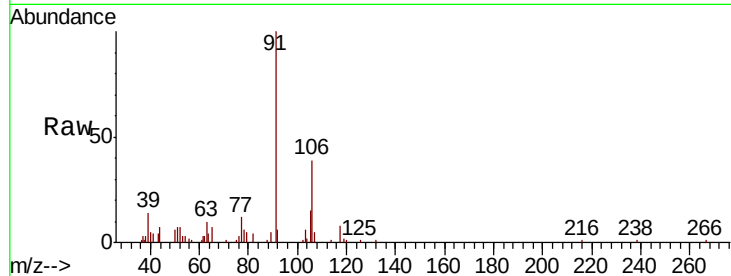
#59
m/p-Xylene
Concen: 0.178 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

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

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

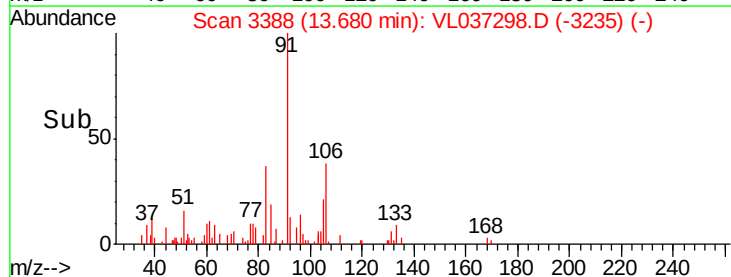
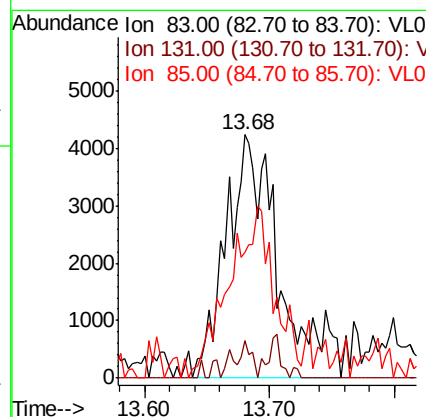
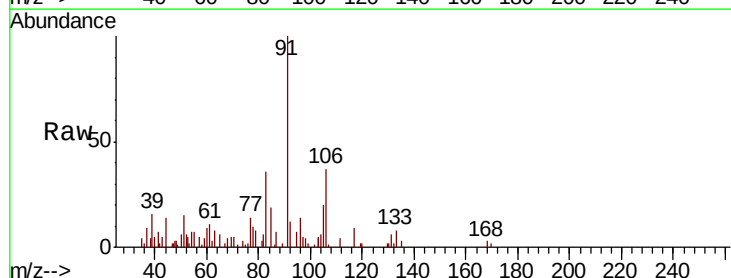
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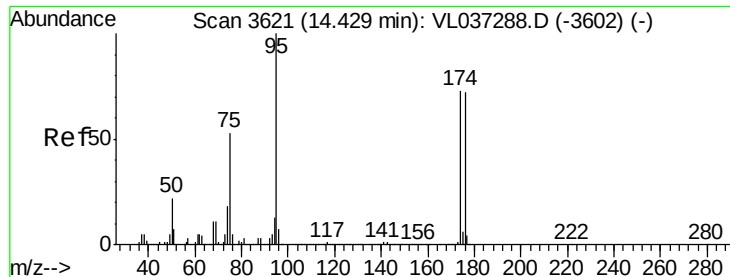
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#63
1,1,2,2-Tetrachloroethane
Concen: 0.048 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL037298.D
Acq: 31 Jul 2021 1:17

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





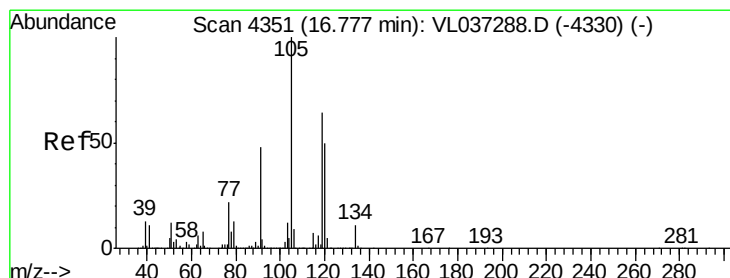
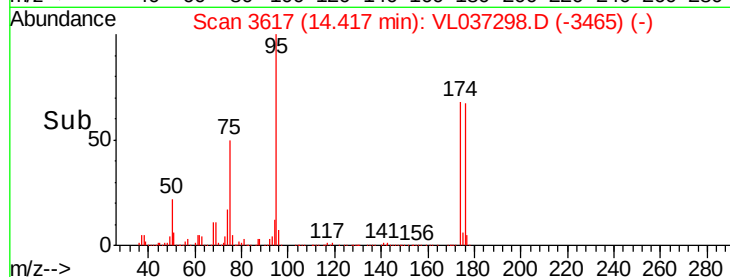
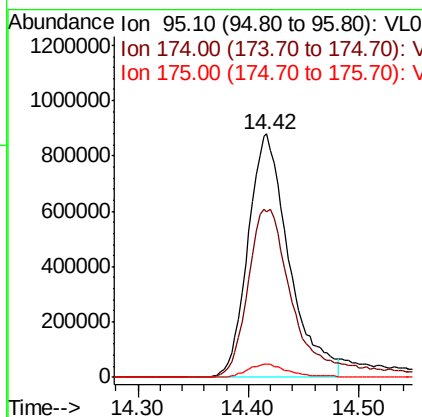
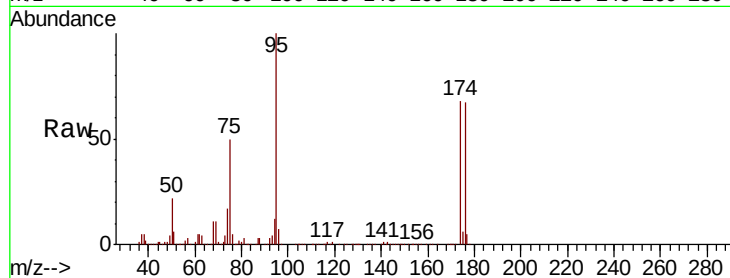
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.596 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL037298.D
 Acq: 31 Jul 2021 1:17

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

Tot Ion: 95 Resp: 2260238
 Ion Ratio Lower Upper
 95 100
 174 81.0 59.8 89.6
 175 5.9 4.5 6.7

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.139 ppbv m
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL037298.D
 Acq: 31 Jul 2021 1:17

Tgt Ion: 105 Resp: 61177
 Ion Ratio Lower Upper
 105 100
 120 43.1 40.2 60.4
 91 19.6 39.0 58.6#
 77 19.1 17.4 26.0

