

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037303.D
 Acq On : 31 Jul 2021 4:39
 Operator : SY/AP
 Sample : M3121-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAY-ROOM-2

Manual Integrations
 APPROVED

MMDadoda
 8/2/2021 8:58:34 AM

Quant Time: Jul 31 07:54:08 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 07:54:08 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	1140245	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3461809	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.09	117	3109965	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2213681	9.78	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	48572	0.296	ppbv	96
3) Chlorodifluoromethane	2.98	51	993338	4.348	ppbv	99
4) Chloromethane	3.13	50	40812	0.512	ppbv	96
9) Propene	3.01	41	42313	0.550	ppbv #	83
11) Trichlorofluoromethane	3.94	101	42733	0.210	ppbv	97
13) Ethanol	3.60	45	569697	33.723	ppbv	97
15) Acetone	3.84	43	1146539	5.582	ppbv	96
19) Isopropyl Alcohol	3.96	45	668758	8.416	ppbv #	89
20) Methylene Chloride	4.34	84	93058	1.171	ppbv	92
26) Hexane	5.68	57	69887	0.439	ppbv #	67
34) 2-Butanone	5.25	43	67704	0.456	ppbv	93
35) Carbon Tetrachloride	7.02	117	13732m	0.063	ppbv	
36) Benzene	6.89	78	51699m	0.176	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	59262m	0.124	ppbv	
52) Tetrachloroethene	11.22	164	22669m	0.175	ppbv	
53) Toluene	9.80	91	555409	1.612	ppbv	100
59) m/p-Xylene	12.97	91	68490m	0.186	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	83686	0.197	ppbv #	75
76) 1,4-Dichlorobenzene	17.14	146	38713m	0.147	ppbv	

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

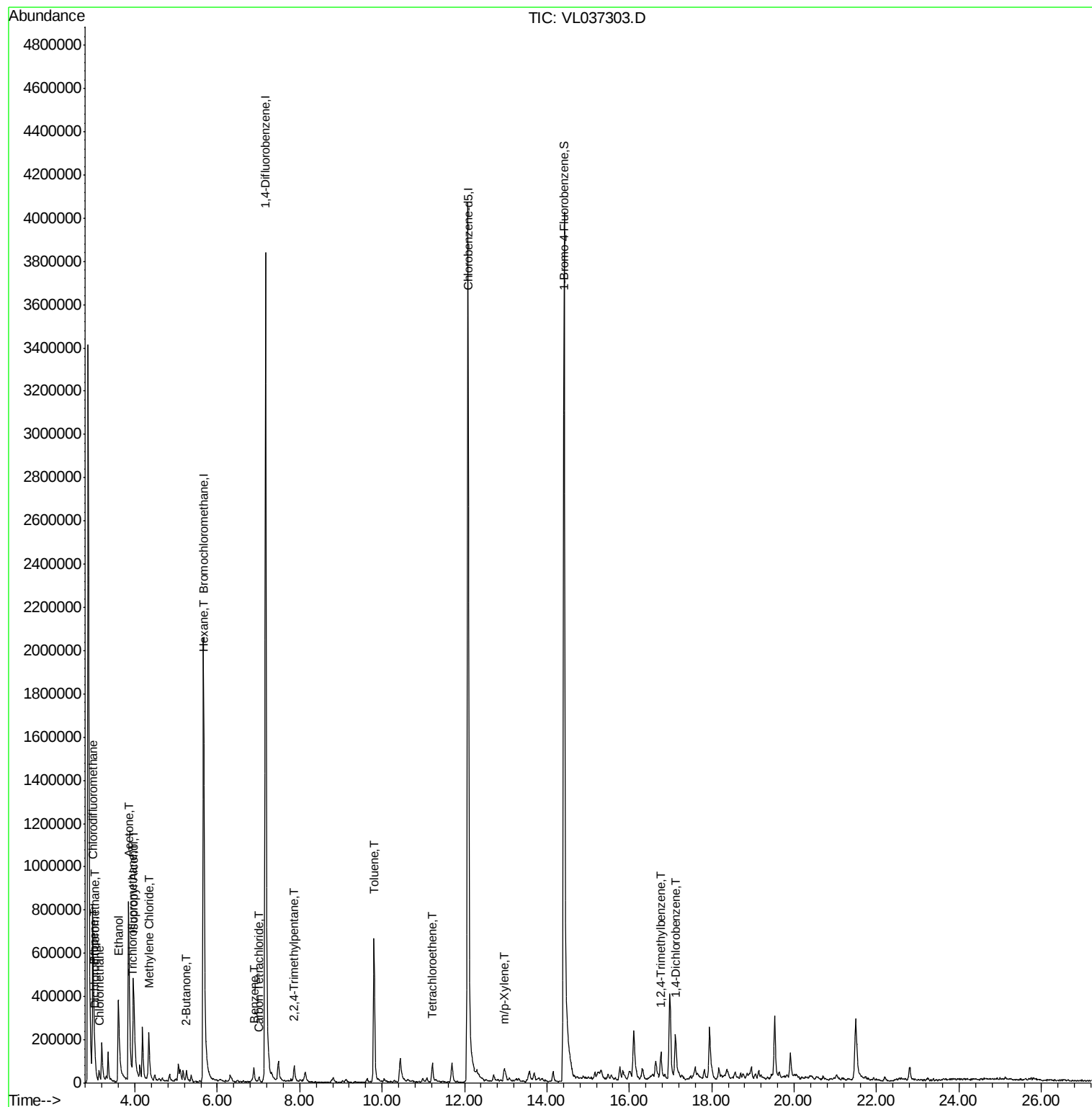
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
Data File : VL037303.D
Acq On : 31 Jul 2021 4:39
Operator : SY/AP
Sample : M3121-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

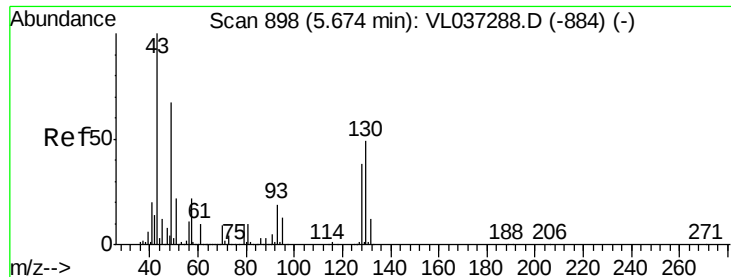
Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-2

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Quant Time: Jul 31 07:54:08 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
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037303.D

Acq: 31 Jul 2021 4:39

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-2

Tot Ion: 49 Resp: 1140245

Ion Ratio Lower Upper

49 100

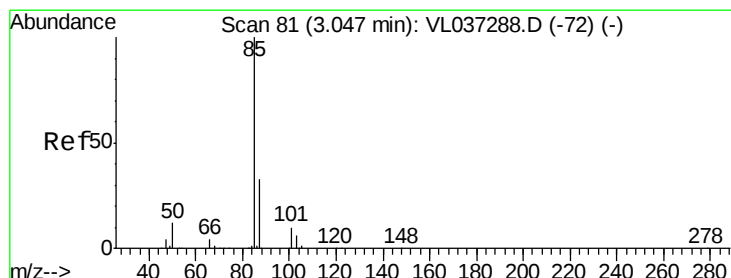
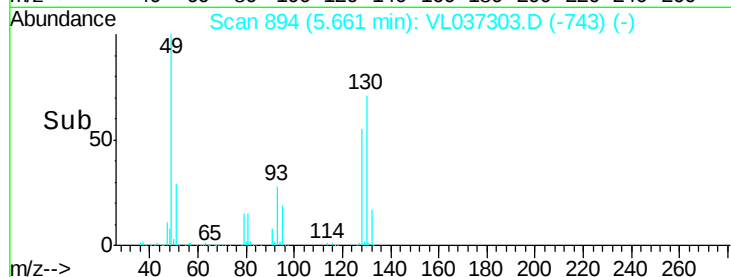
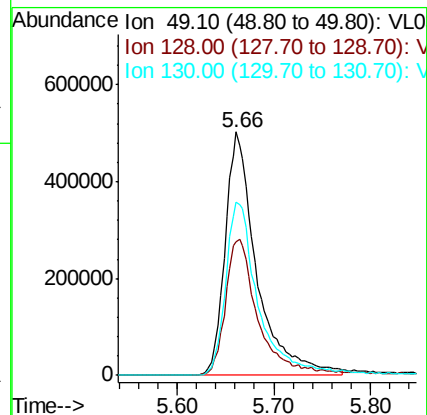
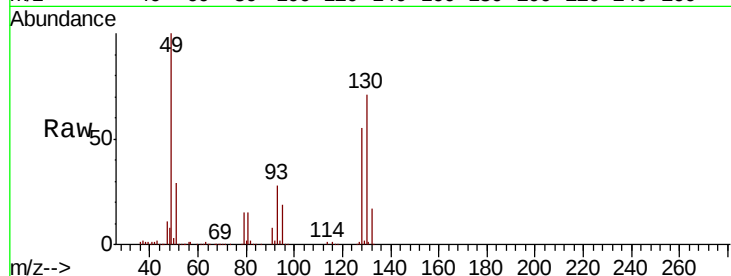
128 58.9 30.6 92.0

130 75.2 37.8 113.4

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#2

Dichlorodifluoromethane

Concen: 0.296 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037303.D

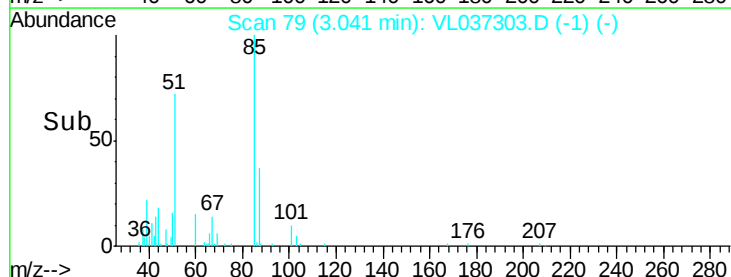
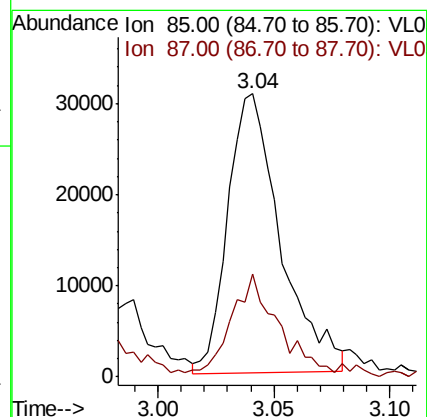
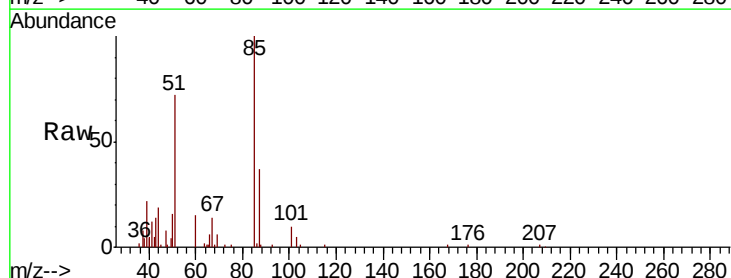
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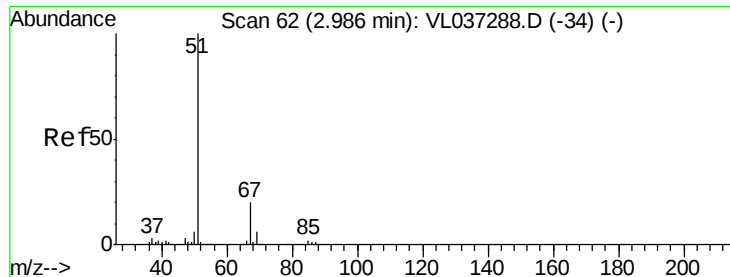
Tgt Ion: 85 Resp: 48572

Ion Ratio Lower Upper

85 100

87 35.6 26.6 40.0





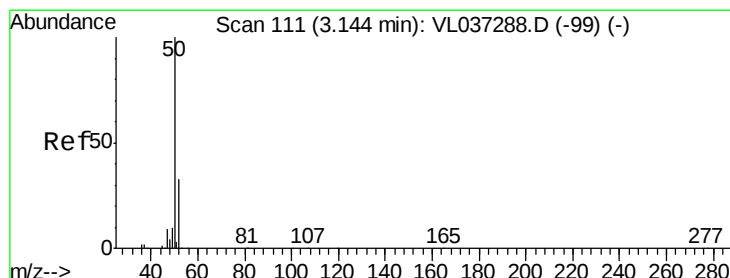
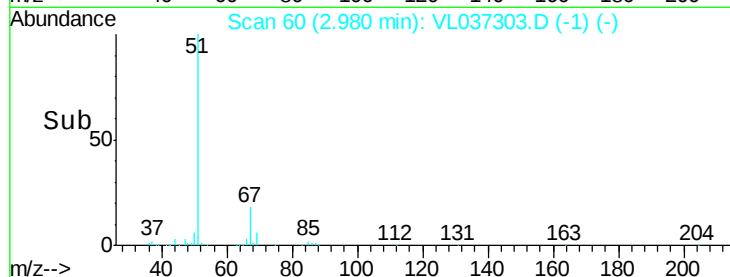
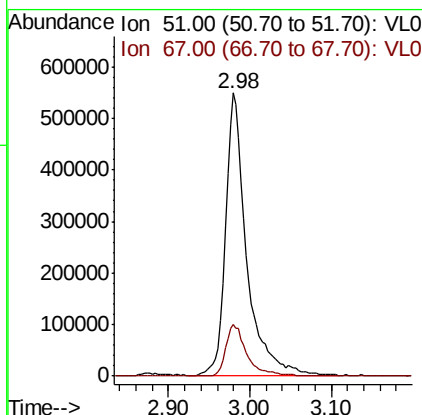
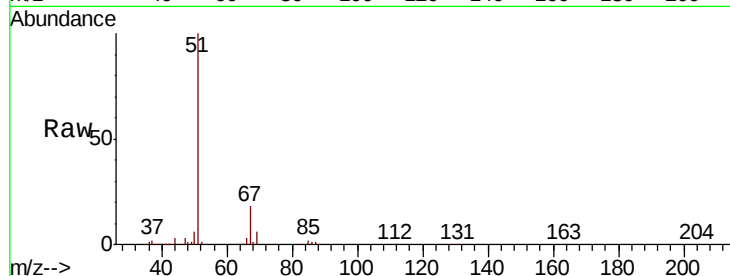
#3
Chlorodifluoromethane
Concen: 4.348 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-2

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.7	15.2	22.8

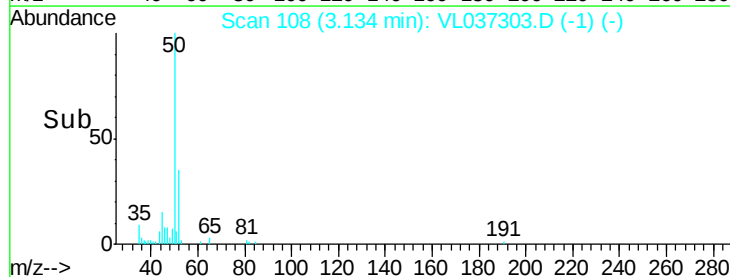
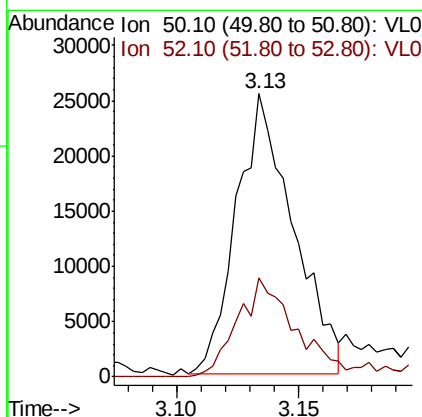
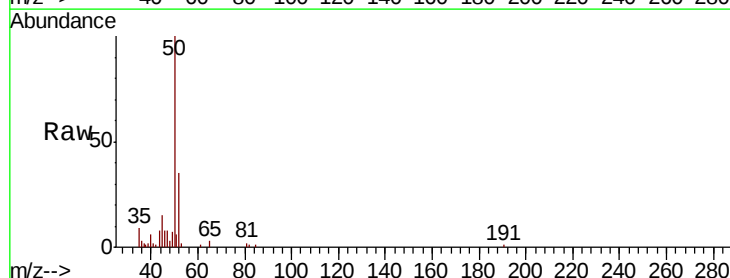
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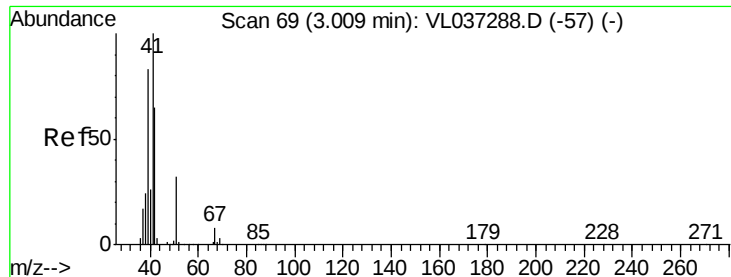
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#4
Chloromethane
Concen: 0.512 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Tgt Ion	Ratio	Lower	Upper
50	100		
52	35.3	26.2	39.4





#9

Propene

Concen: 0.550 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037303.D

Acq: 31 Jul 2021 4:39

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-2

Tot Ion: 41 Resp: 42313

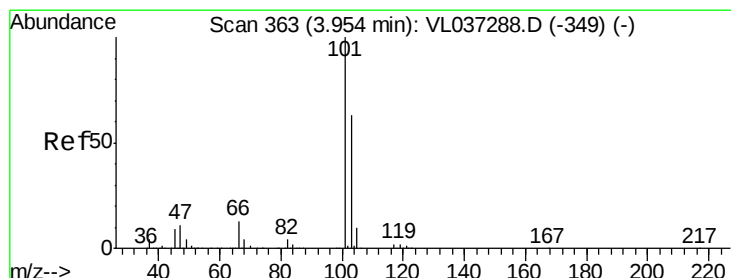
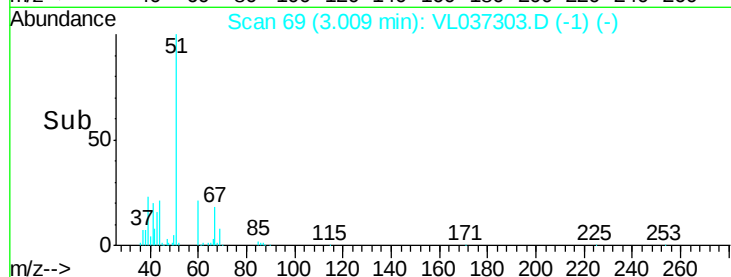
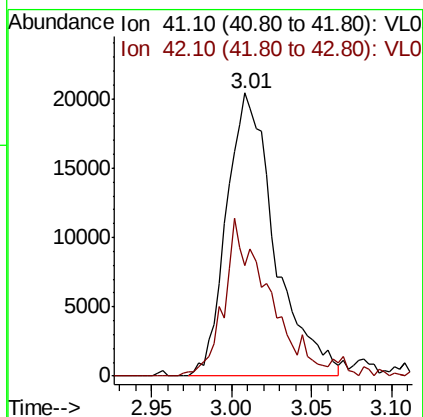
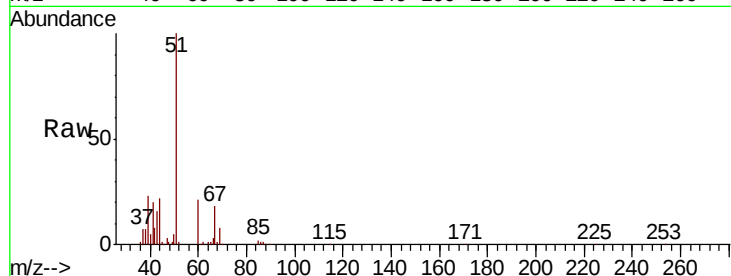
Ion Ratio Lower Upper

41 100

42 53.5 54.0 81.0#

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#11

Trichlorofluoromethane

Concen: 0.210 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL037303.D

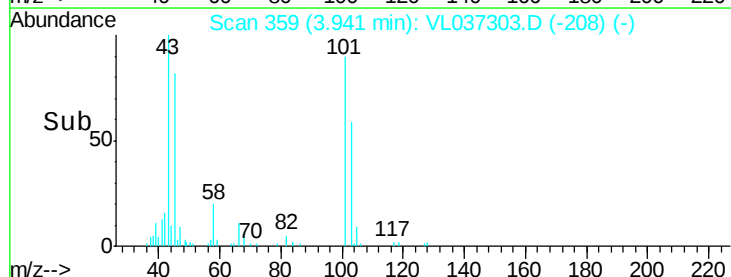
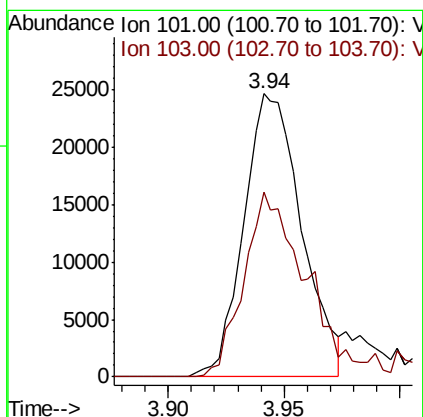
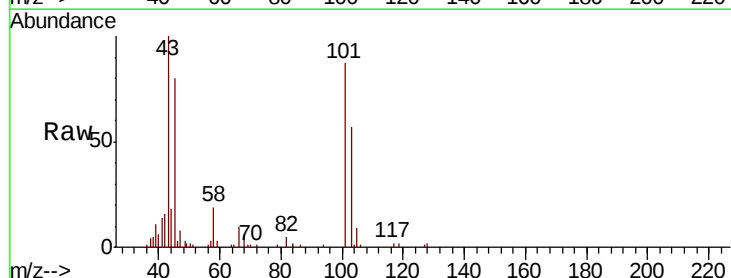
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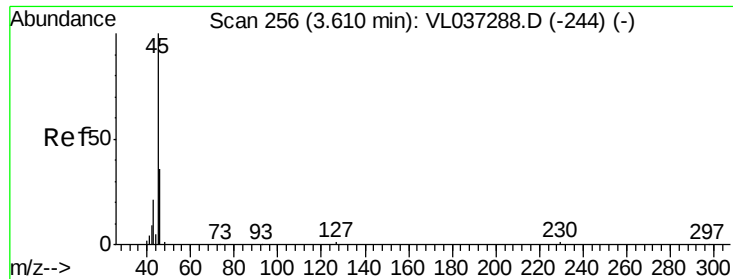
Tgt Ion: 101 Resp: 42733

Ion Ratio Lower Upper

101 100

103 65.5 50.6 75.8





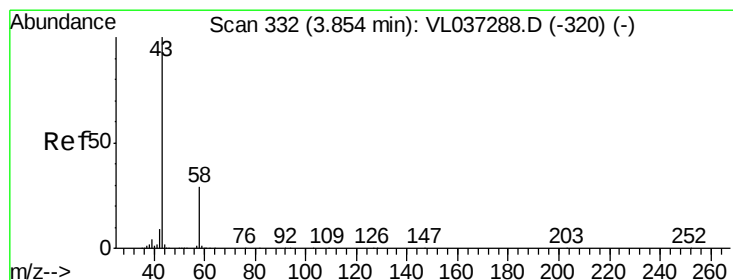
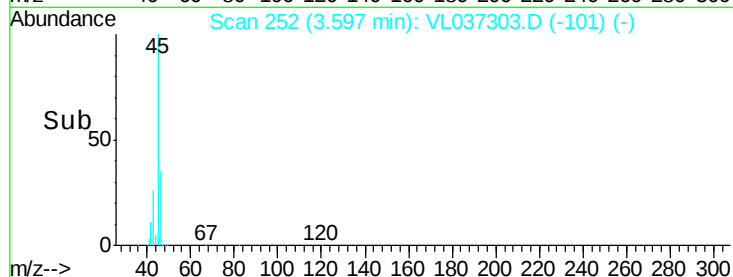
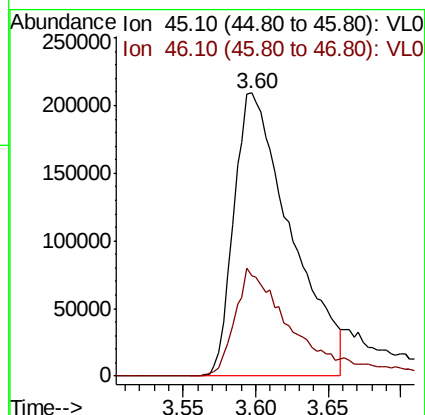
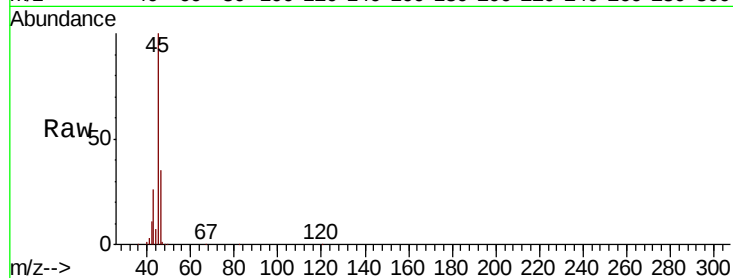
#13
Ethanol
Concen: 33.723 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-2

Tot Ion	Ratio	Lower	Upper
45	100		
46	42.6	16.2	64.8

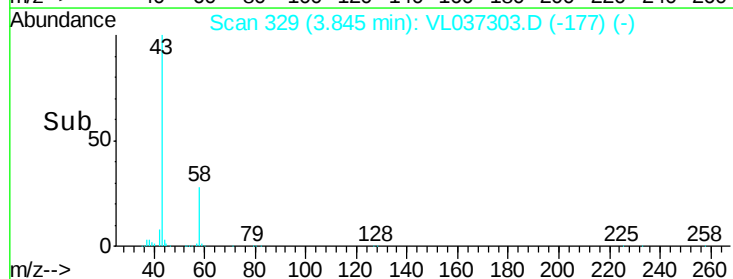
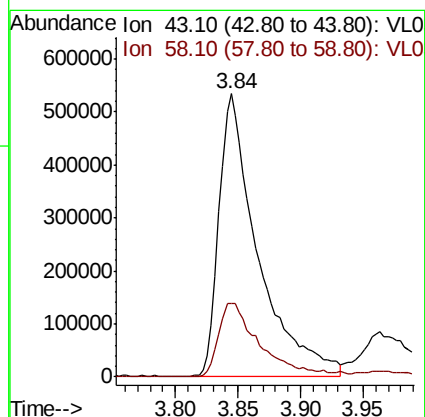
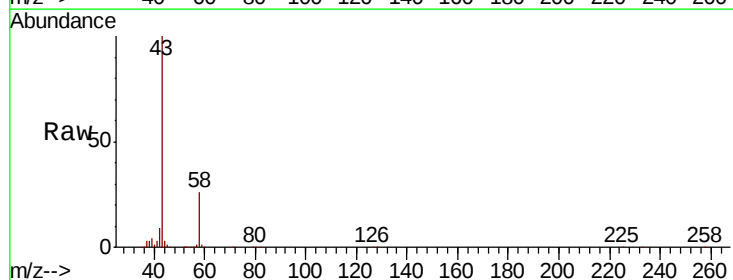
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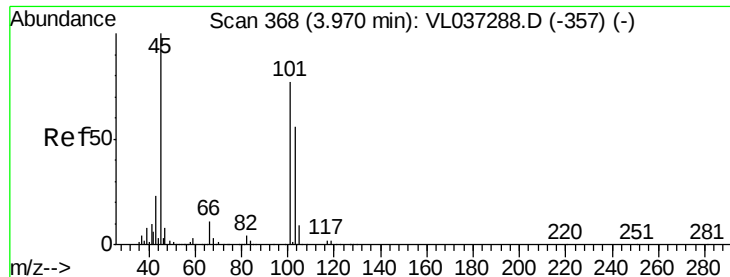
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#15
Acetone
Concen: 5.582 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.4	24.2	36.4





#19

Isopropyl Alcohol

Concen: 8.416 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.01 min

Lab File: VL037303.D

Acq: 31 Jul 2021 4:39

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-2

Tot Ion: 45 Resp: 668758

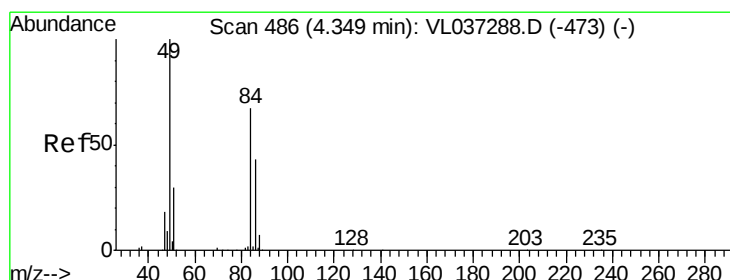
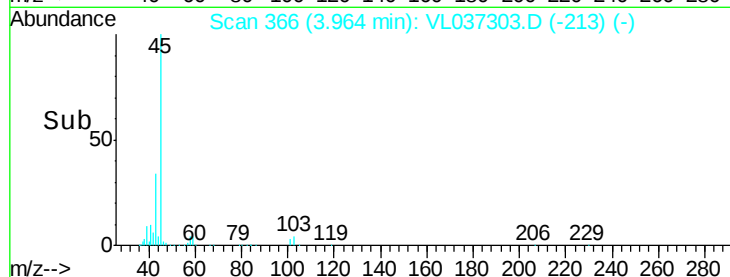
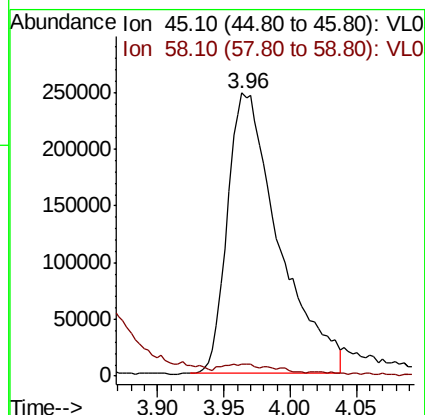
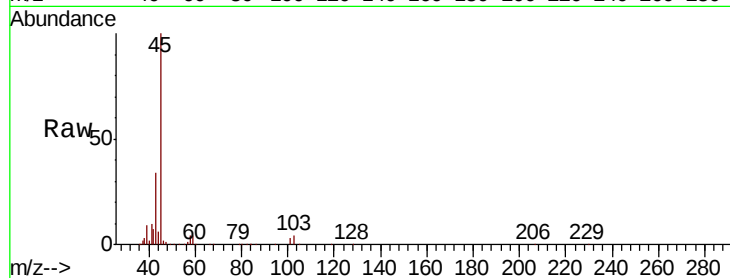
Ion Ratio Lower Upper

45 100

58 6.4 2.2 3.2#

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#20

Methylene Chloride

Concen: 1.171 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037303.D

Acq: 31 Jul 2021 4:39

Tgt Ion: 84 Resp: 93058

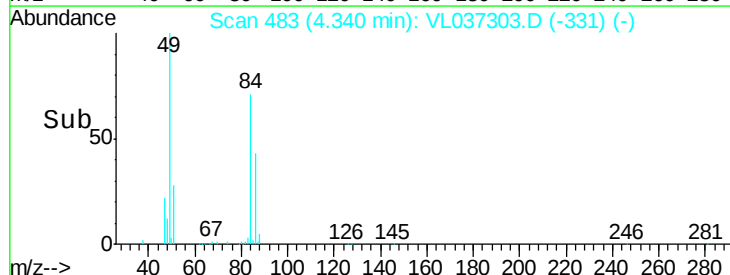
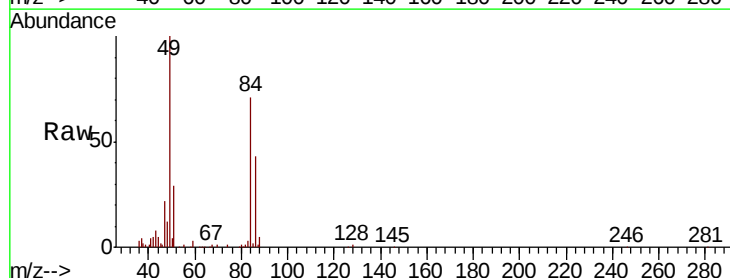
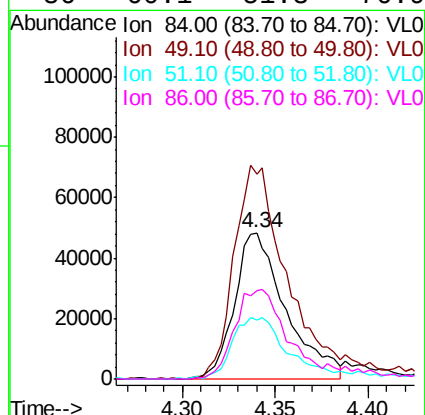
Ion Ratio Lower Upper

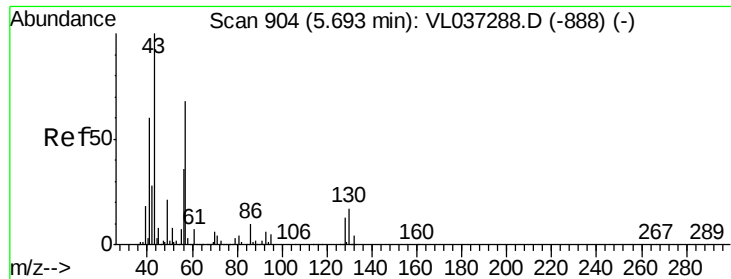
84 100

49 138.7 120.2 180.4

51 39.5 36.5 54.7

86 60.1 51.3 76.9





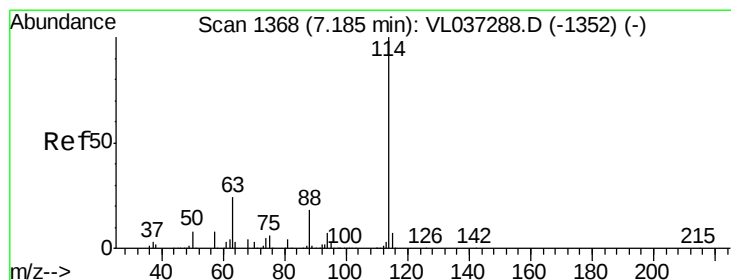
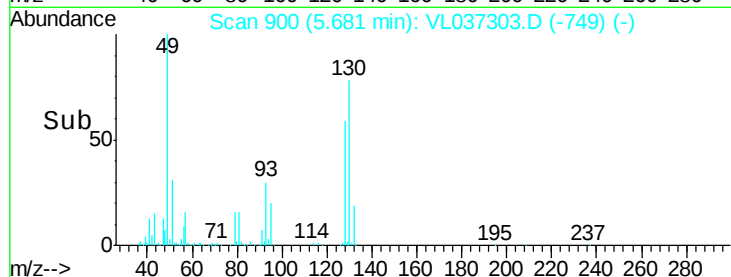
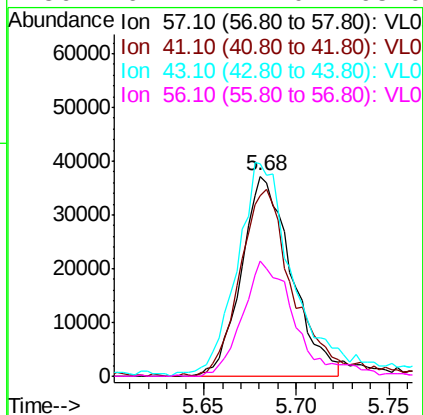
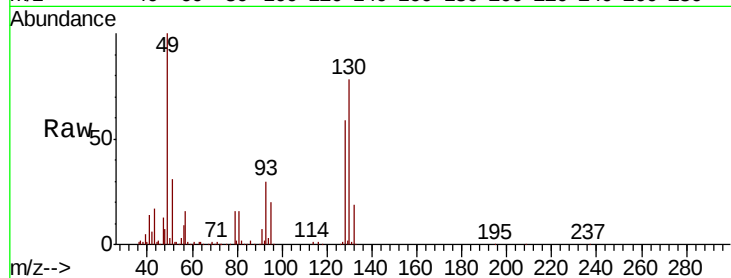
#26
Hexane
Concen: 0.439 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	104.9	71.0	106.6
43	125.2	155.0	232.4#
56	61.1	42.0	63.0

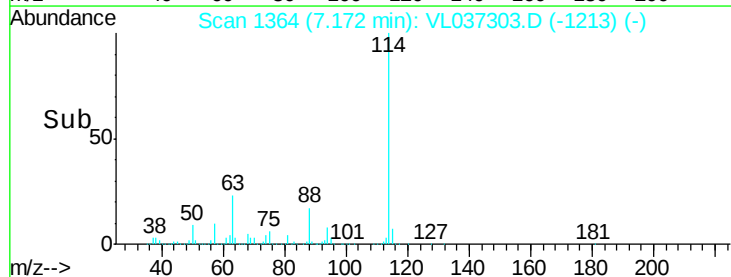
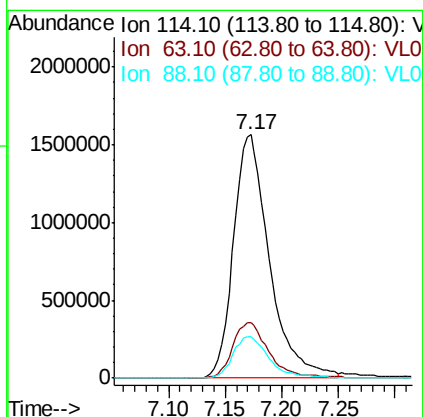
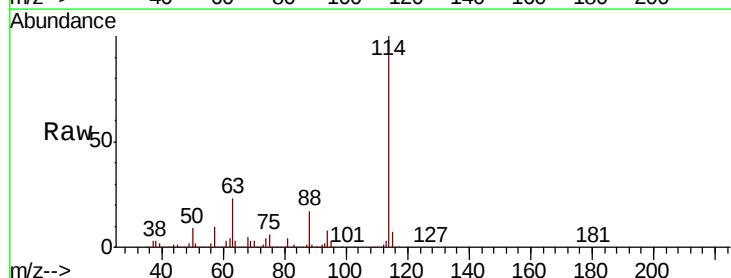
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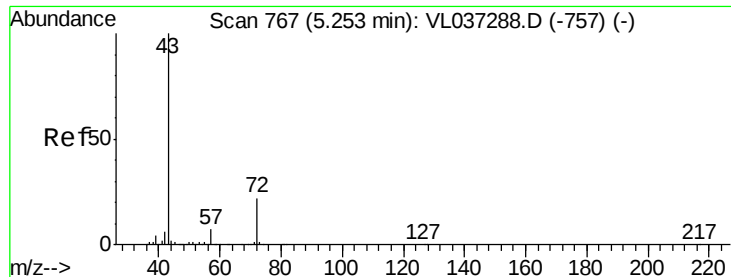
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.4	19.0	28.4
88	17.6	14.0	21.0





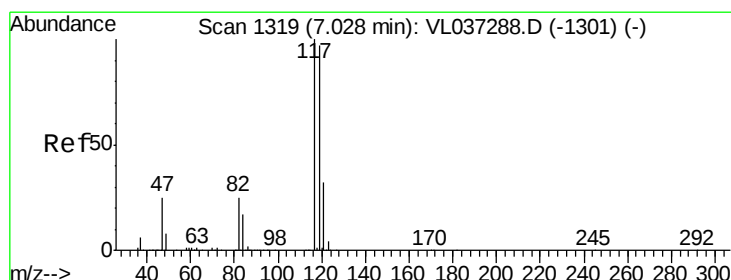
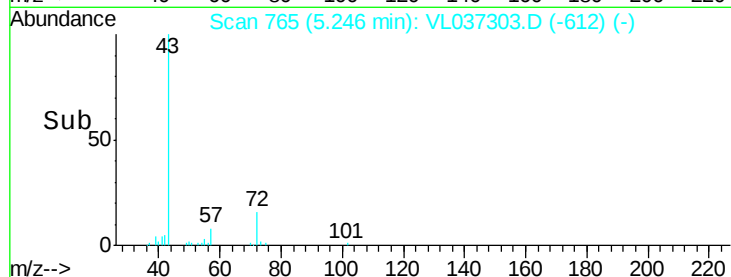
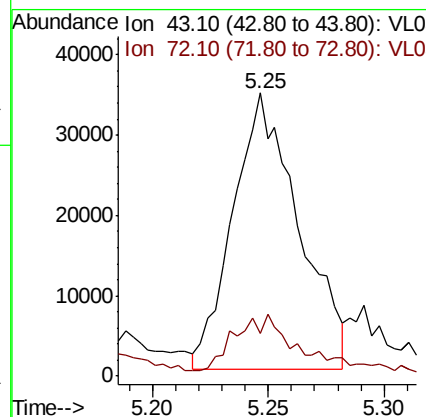
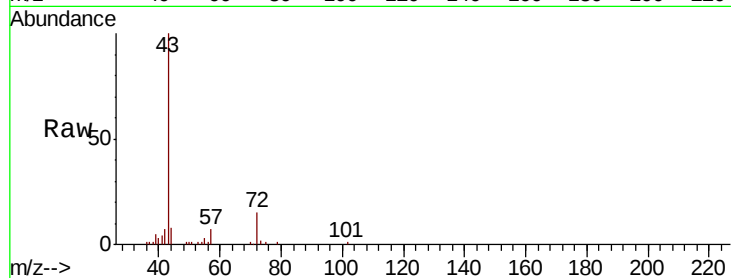
#34
2-Butanone
Concen: 0.456 ppbv
RT: 5.25 min Scan# 765
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-2

Tot Ion	43	Resp	67704
Ion Ratio	100	Lower	Upper
72	26.3	18.5	27.7

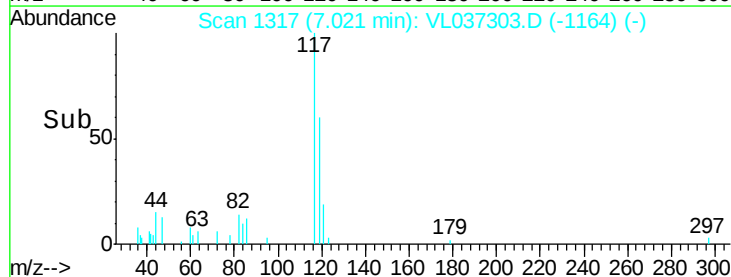
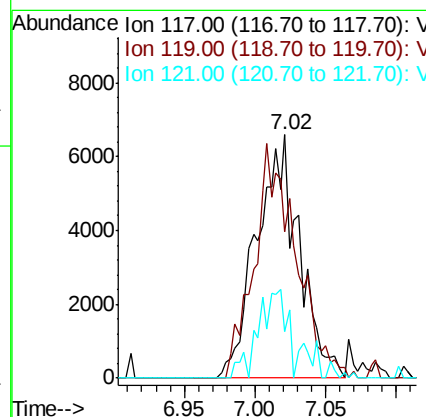
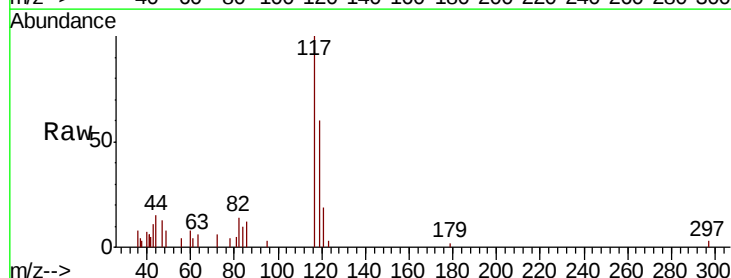
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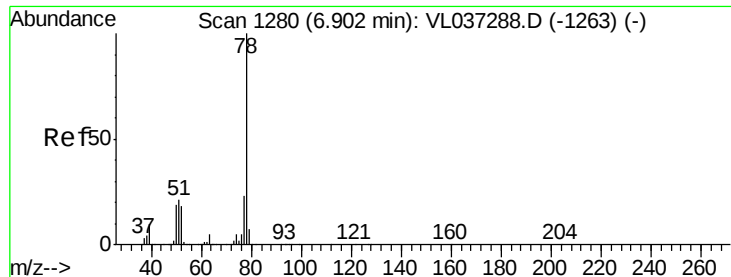
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#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Tgt Ion	117	Resp	13732
Ion Ratio	100	Lower	Upper
119	60.3	77.4	116.2#
121	19.2	25.8	38.8#





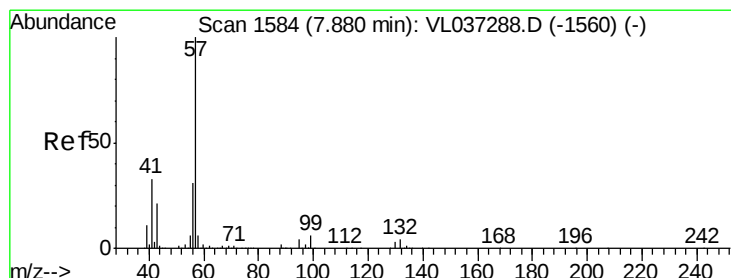
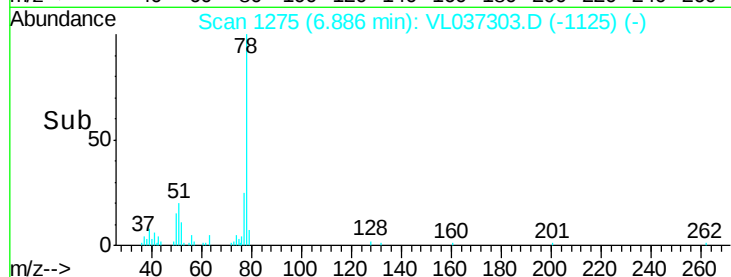
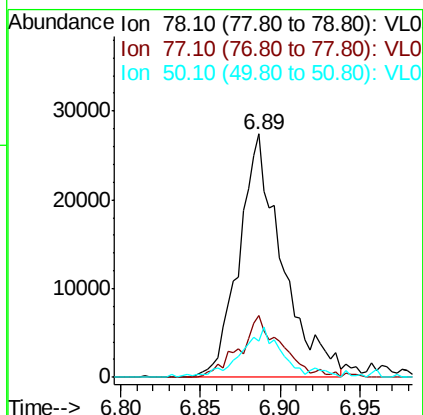
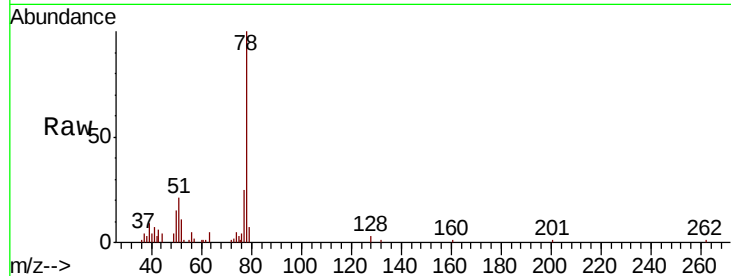
#36
Benzene
Concen: 0.176 ppbv m
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-2

Tot Ion	Ratio	Lower	Upper
78	100		
77	25.2	18.3	27.5
50	14.9	15.5	23.3#

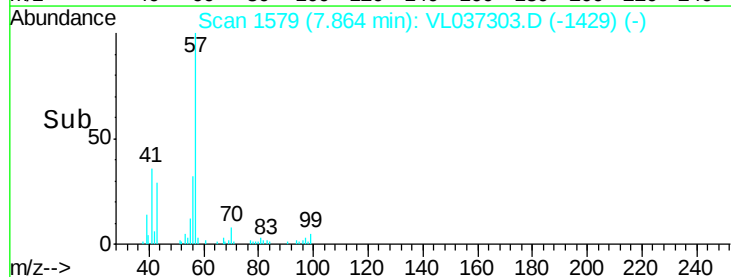
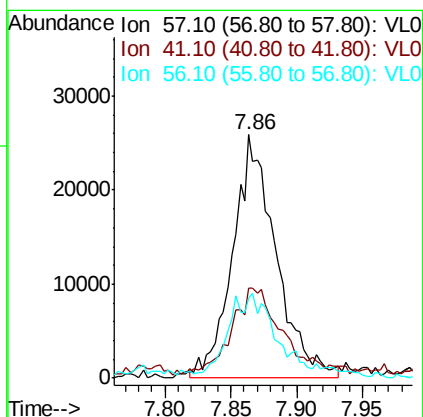
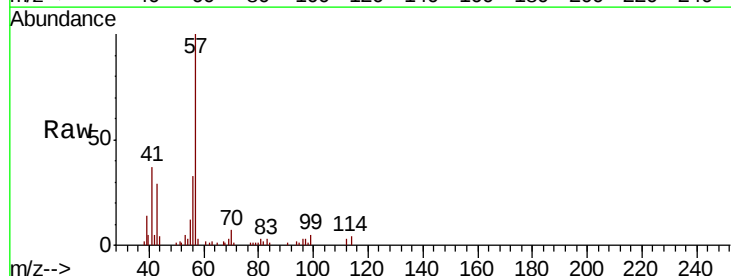
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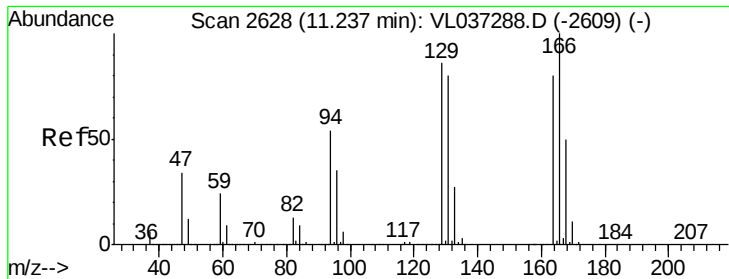
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#44
2,2,4-Trimethylpentane
Concen: 0.124 ppbv m
RT: 7.86 min Scan# 1579
Delta R.T. -0.02 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Tgt Ion	Ratio	Lower	Upper
57	100		
41	47.7	26.6	40.0#
56	0.0	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.175 ppbv m

RT: 11.22 min Scan# 2622

Delta R.T. -0.02 min

Lab File: VL037303.D

Acq: 31 Jul 2021 4:39

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-2

Tot Ion:164 Resp: 22669

Ion Ratio Lower Upper

164 100

166 100.1 100.4 150.6#

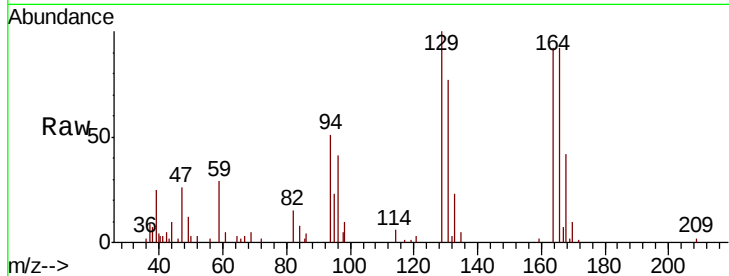
129 108.4 86.2 129.4

131 83.9 80.5 120.7

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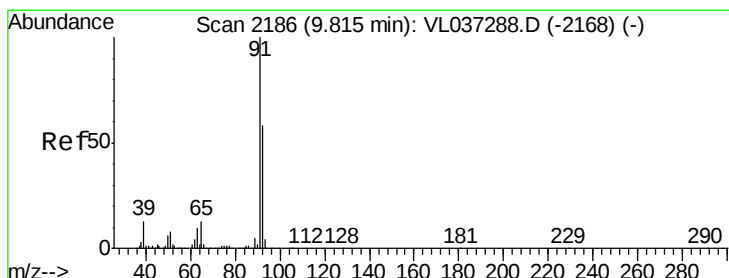
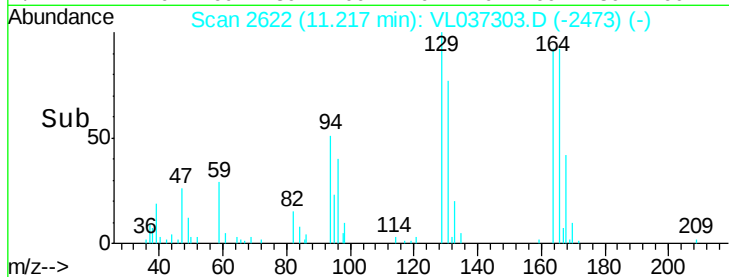
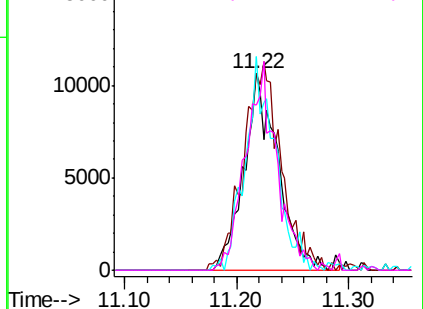


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.612 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL037303.D

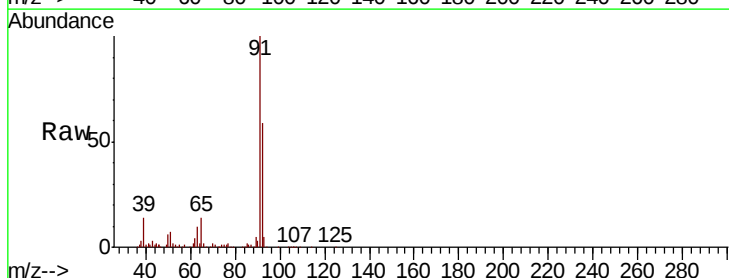
Acq: 31 Jul 2021 4:39

Tgt Ion: 91 Resp: 555409

Ion Ratio Lower Upper

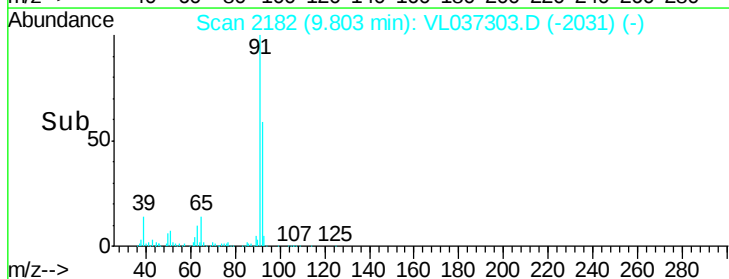
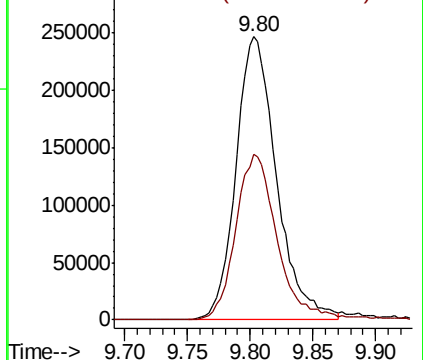
91 100

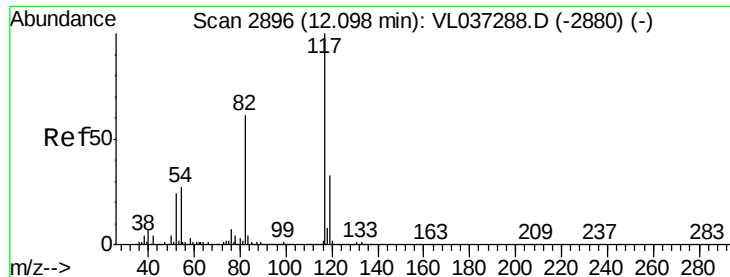
92 60.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





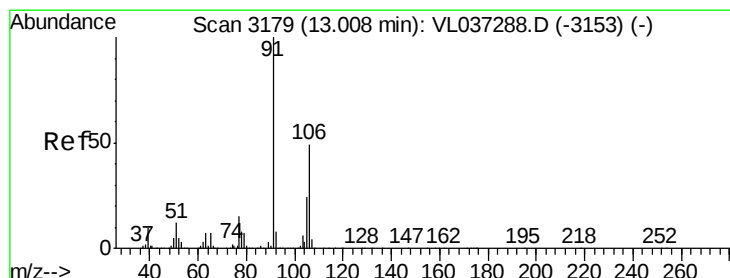
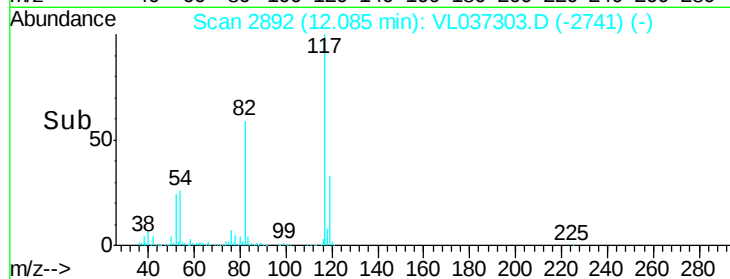
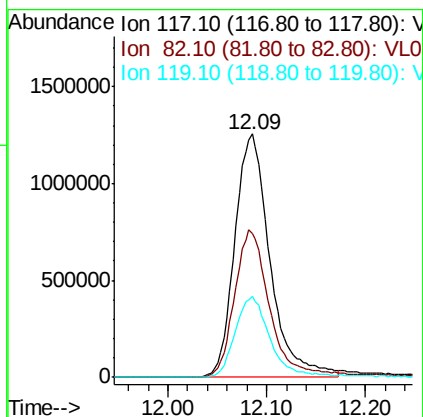
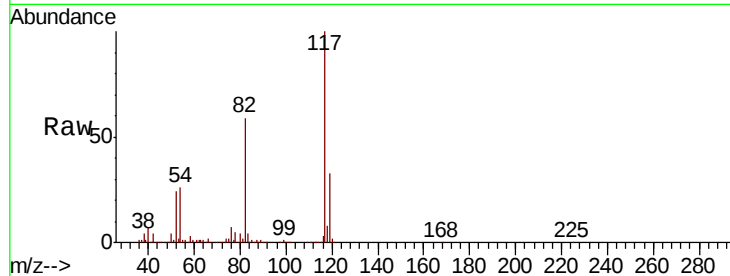
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAY-ROOM-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.0	47.2	70.8
119	33.8	45.8	68.8

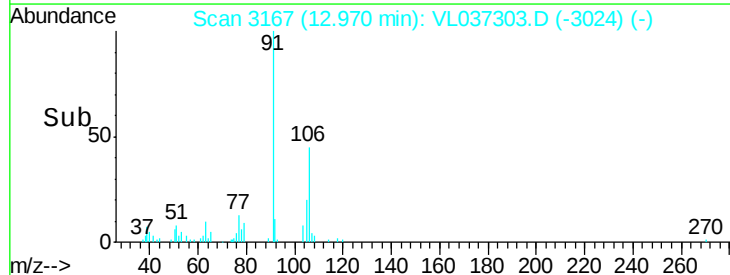
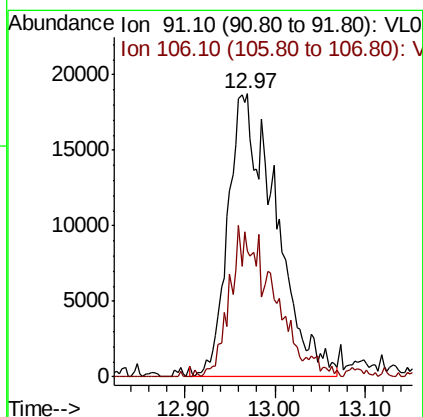
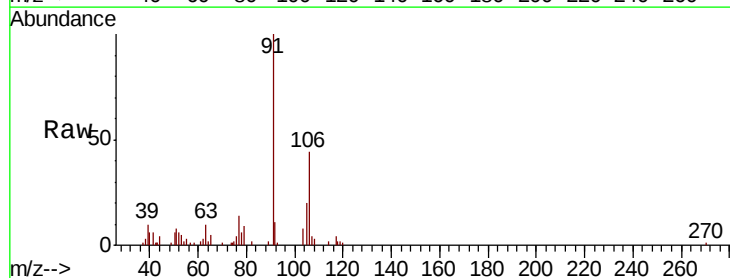
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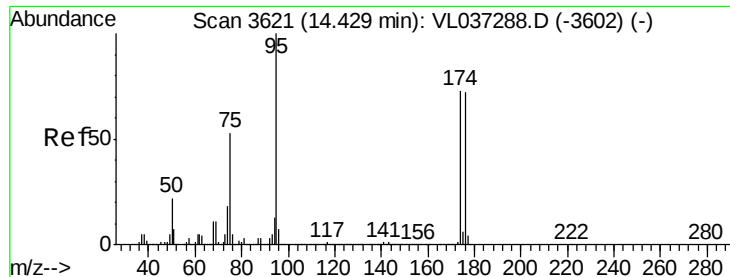
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#59
m/p-Xylene
Concen: 0.186 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL037303.D
Acq: 31 Jul 2021 4:39

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.3	55.9





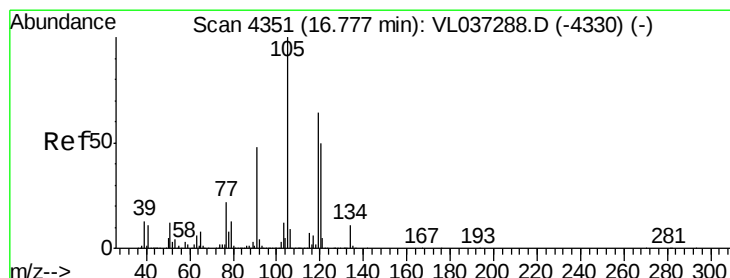
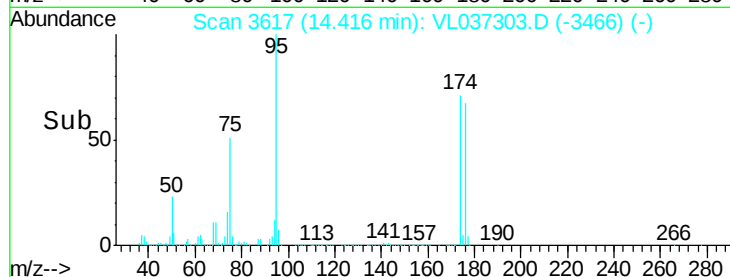
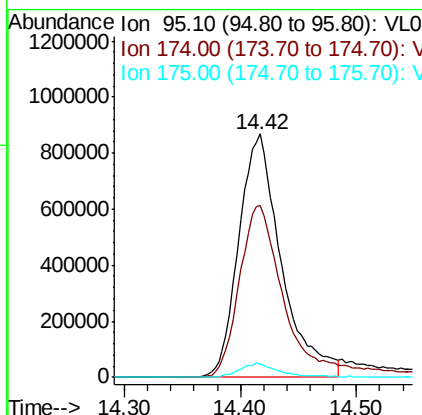
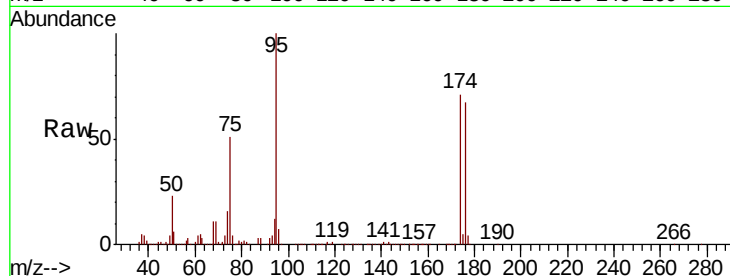
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.784 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL037303.D
 Acq: 31 Jul 2021 4:39

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAY-ROOM-2

Tot Ion	Ratio	Lower	Upper
95	100		
174	79.4	59.8	89.6
175	6.0	4.5	6.7

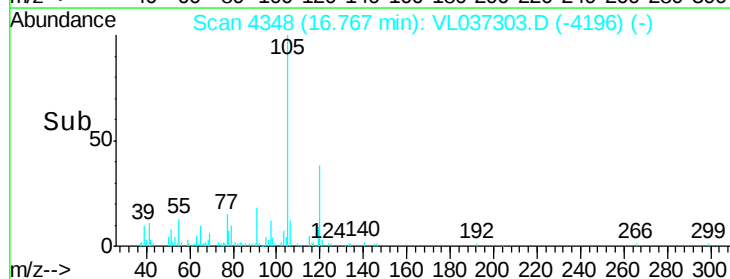
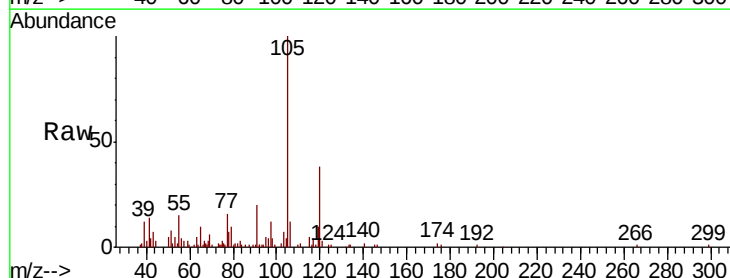
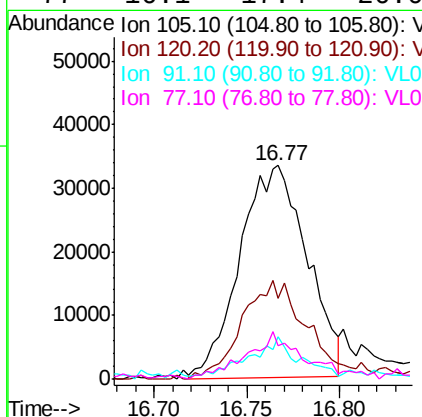
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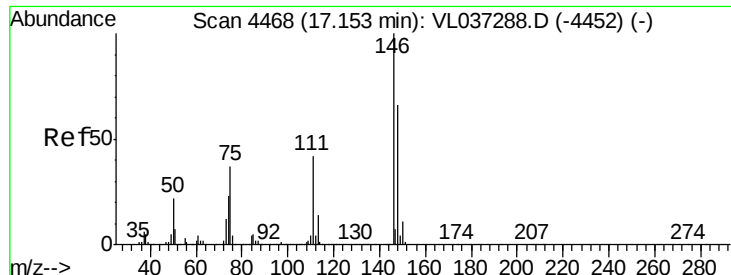
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.197 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL037303.D
 Acq: 31 Jul 2021 4:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.7	40.2	60.4
91	18.6	39.0	58.6
77	16.1	17.4	26.0





#76
 1,4-Dichlorobenzene
 Concen: 0.147 ppbv m
 RT: 17.14 min Scan# 4464
 Delta R.T. -0.01 min
 Lab File: VL037303.D
 Acq: 31 Jul 2021 4:39

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAY-ROOM-2

Tot Ion	Ratio	Lower	Upper
146	100		
111	54.4	21.2	63.6
148	0.0	32.9	98.6

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 8/2/2021 8:58:34 AM

