

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037405.D
 Acq On : 12 Aug 2021 1:13
 Operator : SY/AP
 Sample : M3121-03RE
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
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 8/12/2021 10:17:30 AM

Quant Time: Aug 12 04:36:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 11 2021
 QLast Update : Wed Aug 11 09:01:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1154152	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3568548	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2925417	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1954755	8.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	42719m	0.205	ppbv	
3) Chlorodifluoromethane	2.99	51	933280	4.349	ppbv	100
4) Chloromethane	3.14	50	48201m	0.610	ppbv	
9) Propene	3.02	41	33847	0.463	ppbv #	81
11) Trichlorofluoromethane	3.95	101	40245m	0.229	ppbv	
13) Ethanol	3.60	45	520968m	59.074	ppbv	
15) Acetone	3.85	43	1070308	9.734	ppbv	94
19) Isopropyl Alcohol	3.97	45	437698	6.914	ppbv #	35
20) Methylene Chloride	4.34	84	128344	2.149	ppbv #	94
26) Hexane	5.68	57	96284	0.675	ppbv #	57
34) 2-Butanone	5.25	43	78597m	0.580	ppbv	
35) Carbon Tetrachloride	7.02	117	13415m	0.067	ppbv	
36) Benzene	6.89	78	50660	0.179	ppbv	92
44) 2,2,4-Trimethylpentane	7.87	57	65952m	0.140	ppbv	
52) Tetrachloroethene	11.23	164	20199m	0.175	ppbv	
53) Toluene	9.80	91	542058	1.651	ppbv	100
59) m/p-Xylene	12.96	91	71481m	0.213	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	60145m	0.175	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	24238m	0.118	ppbv	

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

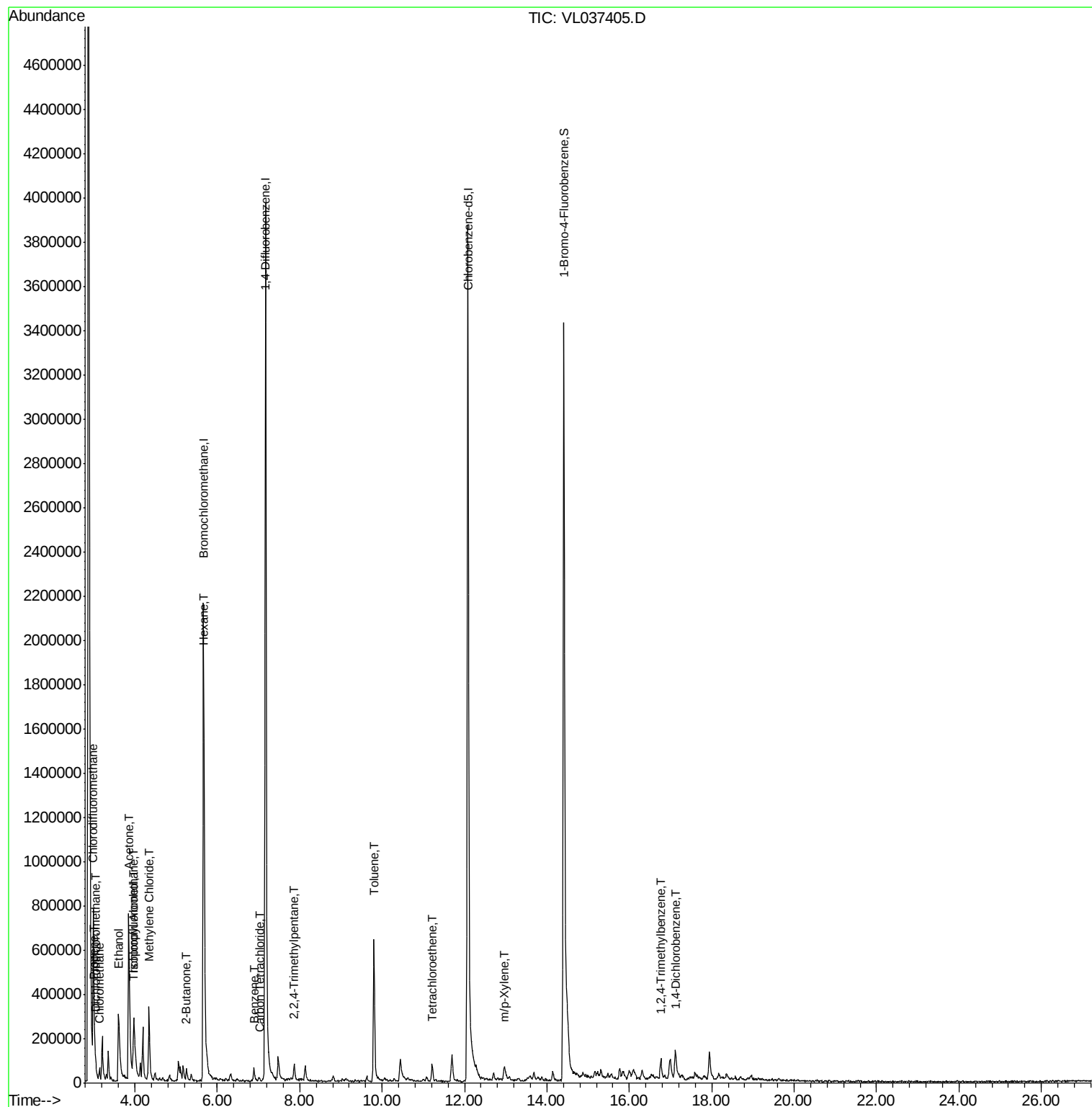
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
Data File : VL037405.D
Acq On : 12 Aug 2021 1:13
Operator : SY/AP
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Misc : 400mL/MSVOA L
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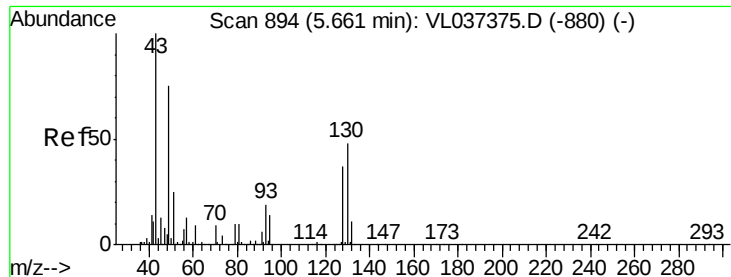
Instrument :
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IA-PLAY-ROOM-2RE

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Quant Time: Aug 12 04:36:15 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 11 09:01:07 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL037405.D

Acq: 12 Aug 2021 1:13

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-2RE

Tot Ion: 49 Resp: 1154152

Ion Ratio Lower Upper

49 100

128 56.6 28.1 84.4

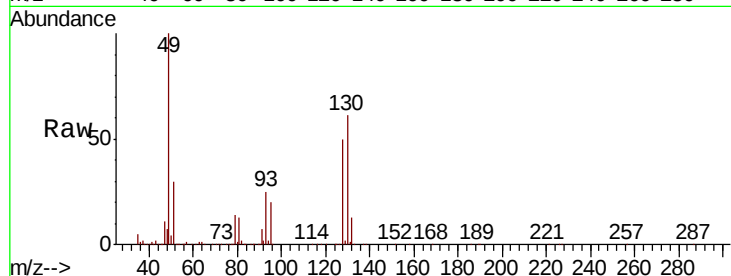
130 72.7 34.3 102.8

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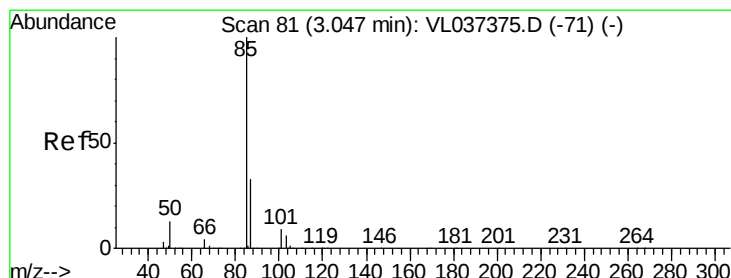
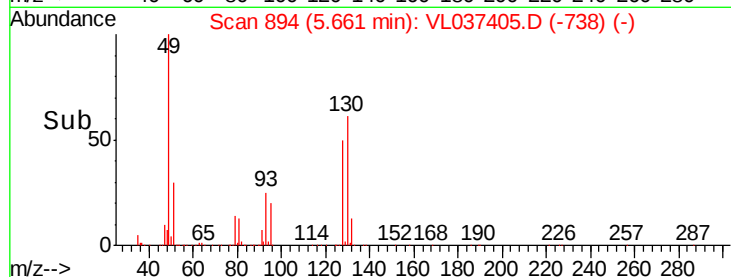
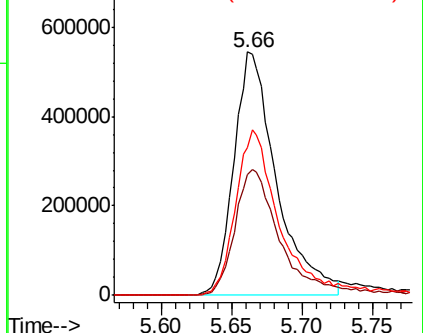
8/12/2021 10:17:30 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.205 ppbv m

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037405.D

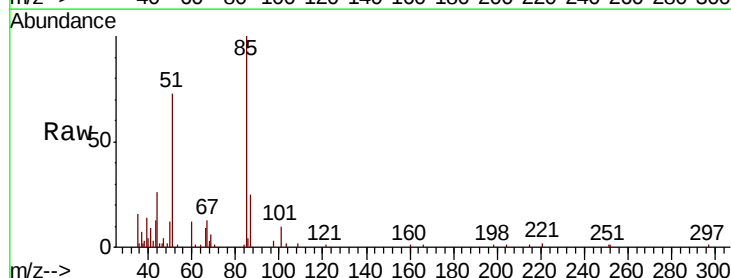
Acq: 12 Aug 2021 1:13

Tgt Ion: 85 Resp: 42719

Ion Ratio Lower Upper

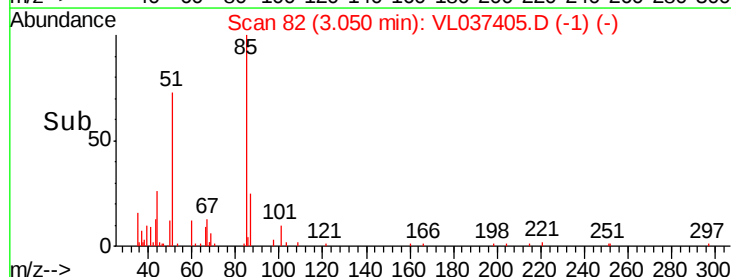
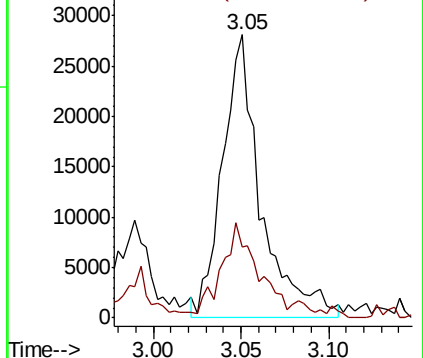
85 100

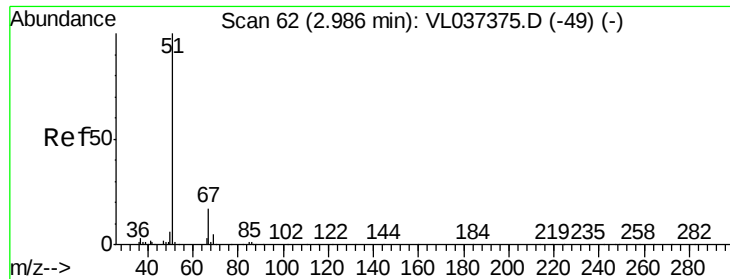
87 25.0 26.6 39.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.349 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL037405.D

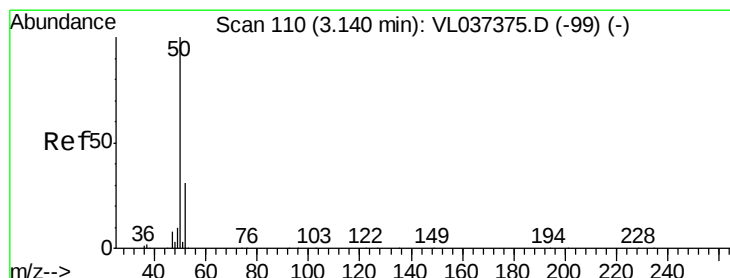
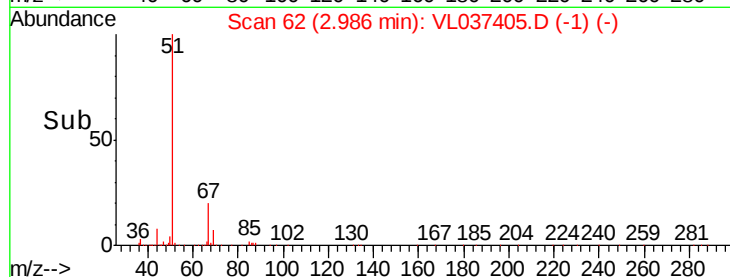
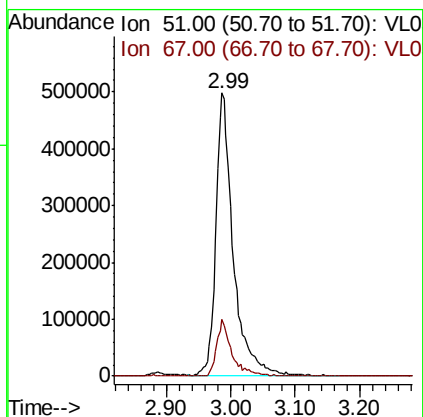
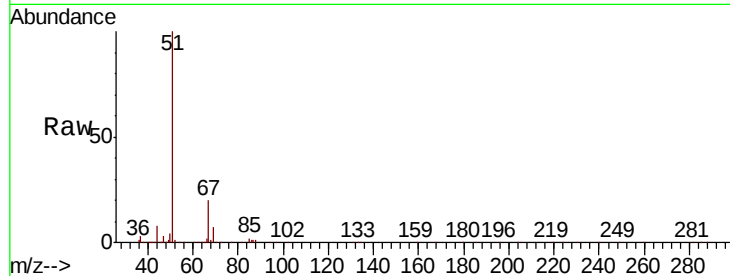
Acq: 12 Aug 2021 1:13

Tot Ion:	51	Resp:	933280
Ion Ratio	Lower	Upper	
51	100		
67	17.7	14.3	21.5

Instrument :
MSVOA_L
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#4

Chloromethane

Concen: 0.610 ppbv m

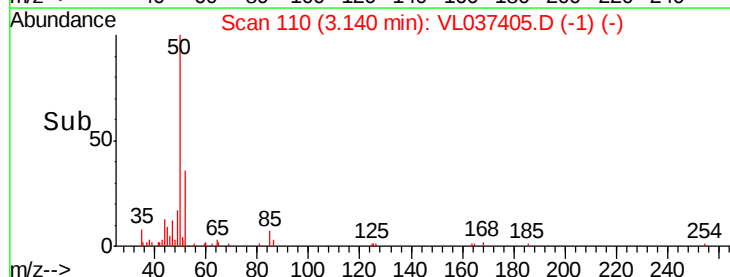
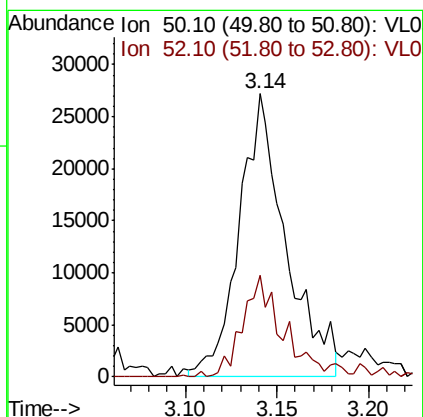
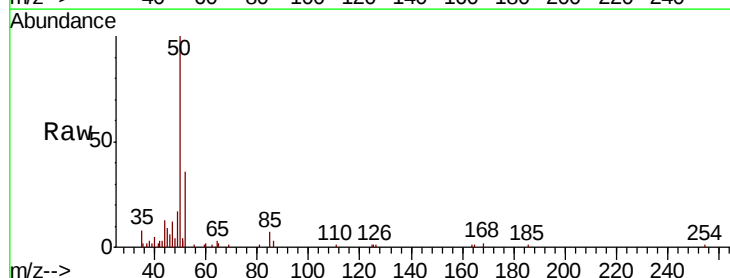
RT: 3.14 min Scan# 110

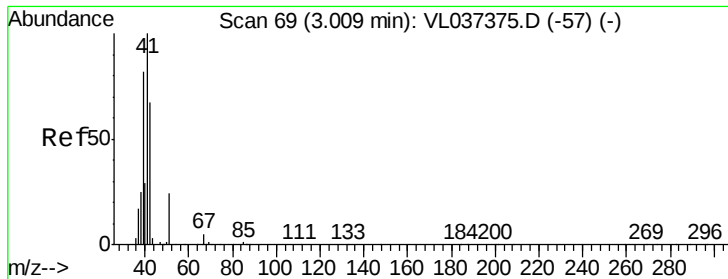
Delta R.T. 0.00 min

Lab File: VL037405.D

Acq: 12 Aug 2021 1:13

Tgt Ion:	50	Resp:	48201
Ion Ratio	Lower	Upper	
50	100		
52	35.9	25.0	37.4





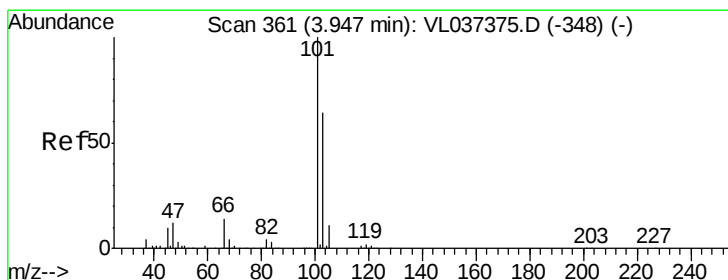
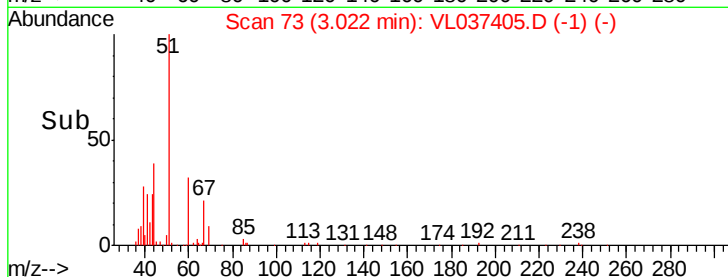
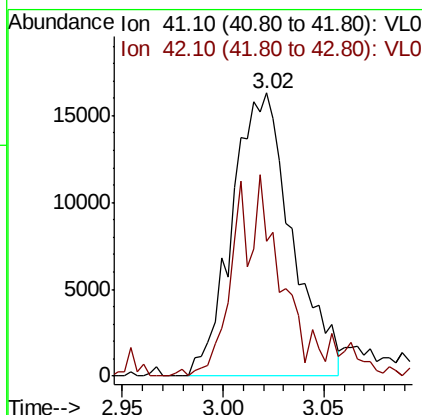
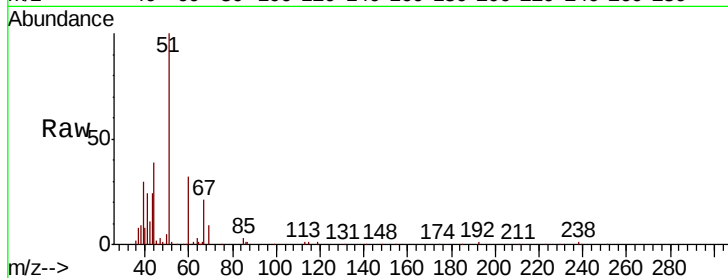
#9
 Propene
 Concen: 0.463 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. 0.01 min
 Lab File: VL037405.D
 Acq: 12 Aug 2021 1:13

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

Tot Ion	Ratio	Lower	Upper
41	100		
42	53.8	55.5	83.3#

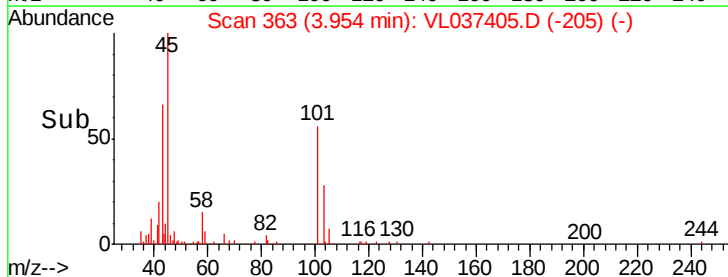
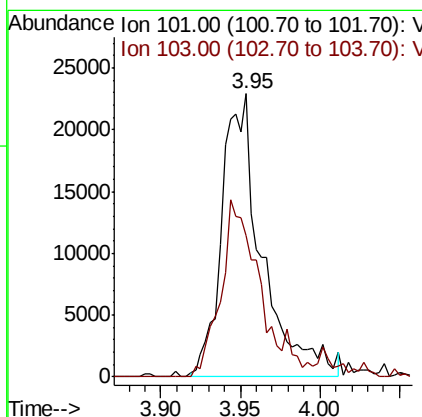
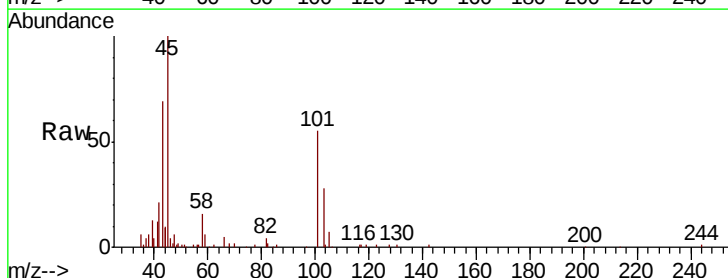
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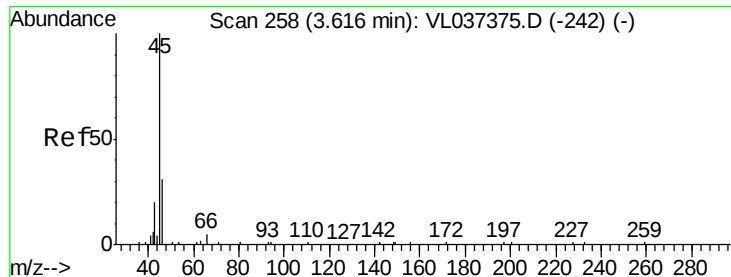
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#11
 Trichlorofluoromethane
 Concen: 0.229 ppbv m
 RT: 3.95 min Scan# 363
 Delta R.T. 0.01 min
 Lab File: VL037405.D
 Acq: 12 Aug 2021 1:13

Tgt Ion	Ratio	Lower	Upper
101	100		
103	49.8	51.2	76.8#





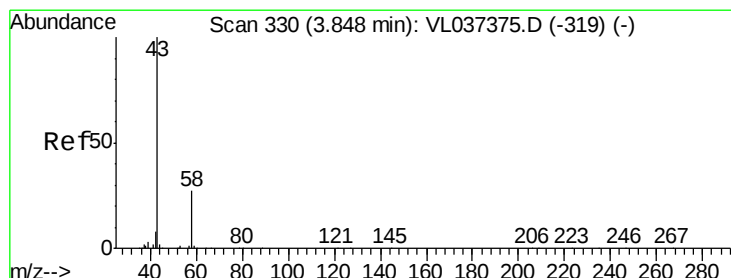
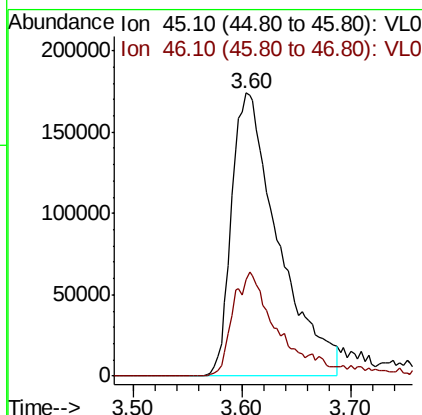
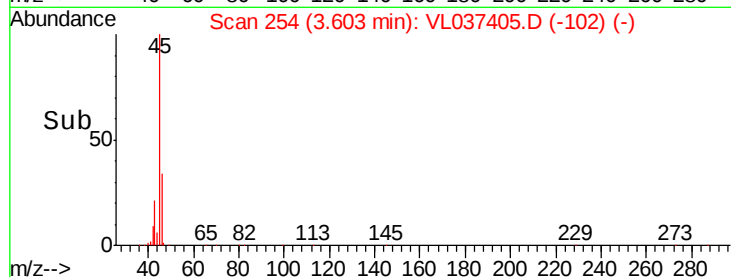
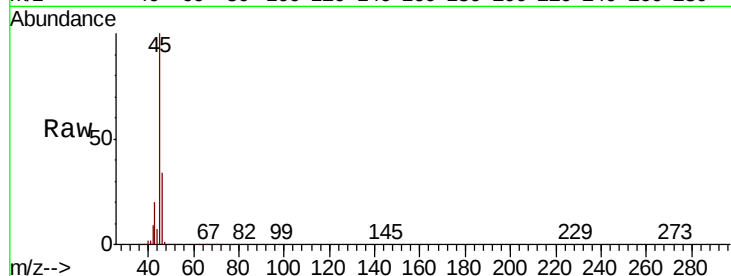
#13
Ethanol
Concen: 59.074 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

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

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.5	15.8	63.4

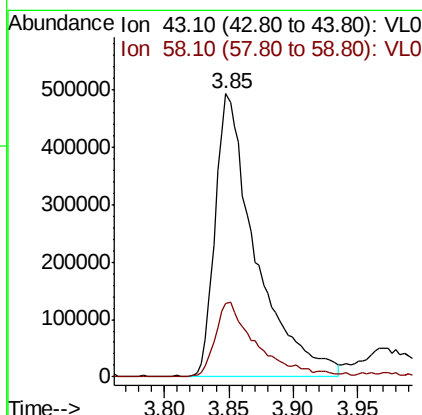
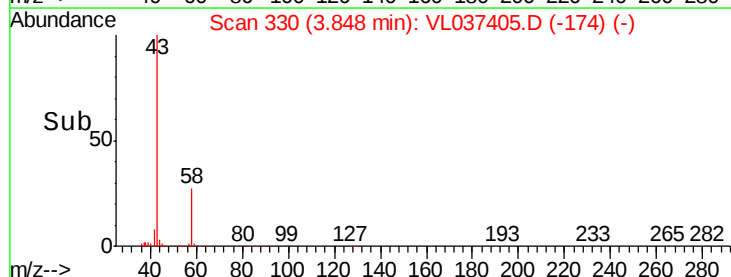
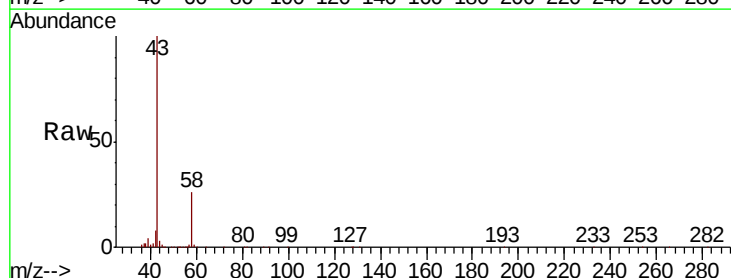
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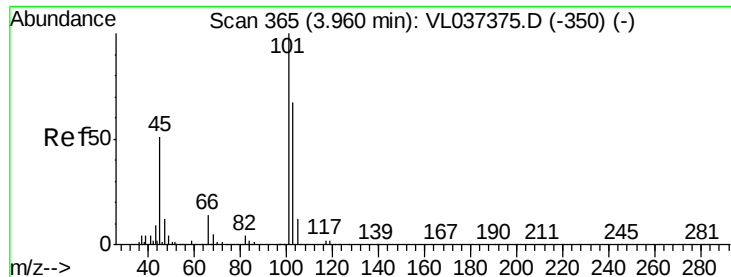
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#15
Acetone
Concen: 9.734 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.3	24.6	37.0





#19

Isopropyl Alcohol

Concen: 6.914 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL037405.D

Acq: 12 Aug 2021 1:13

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-2RE

Tot Ion: 45 Resp: 437698

Ion Ratio Lower Upper

45 100

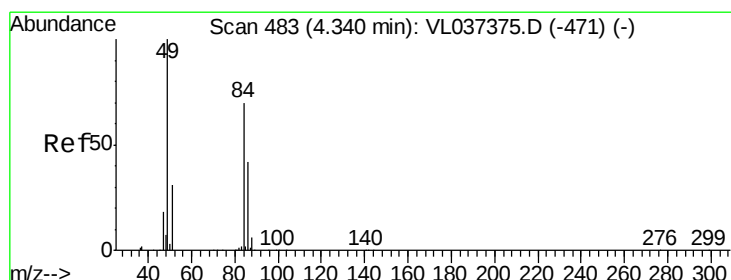
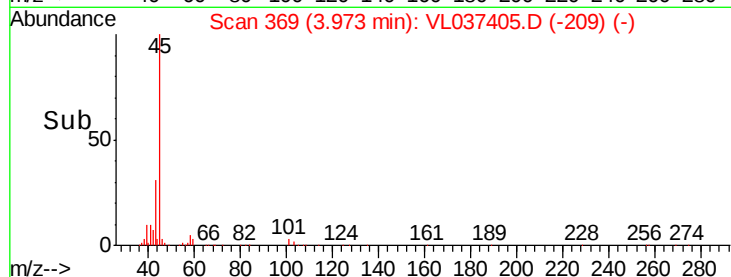
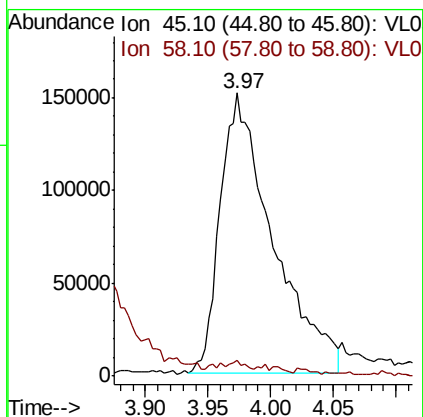
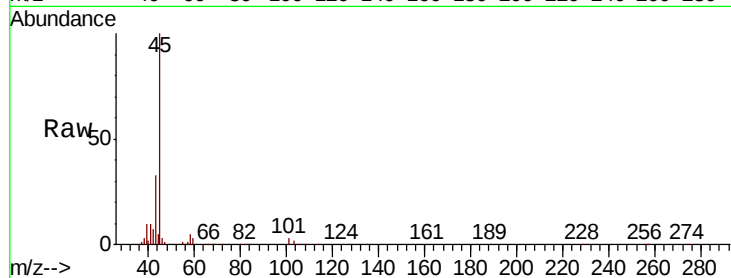
58 4.2 38.7 58.1#

Manual Integrations

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#20

Methylene Chloride

Concen: 2.149 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL037405.D

Acq: 12 Aug 2021 1:13

Tgt Ion: 84 Resp: 128344

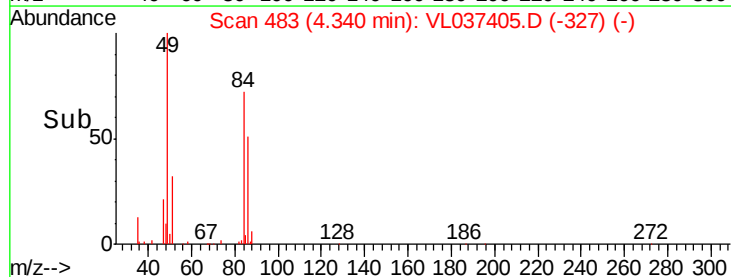
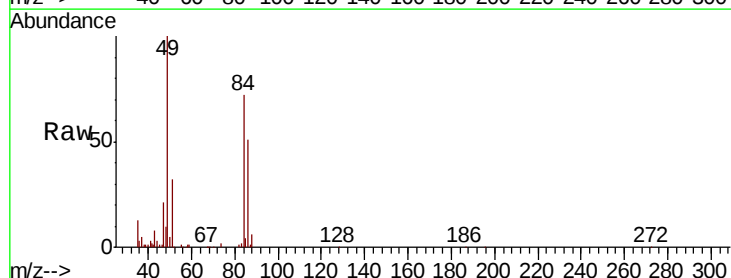
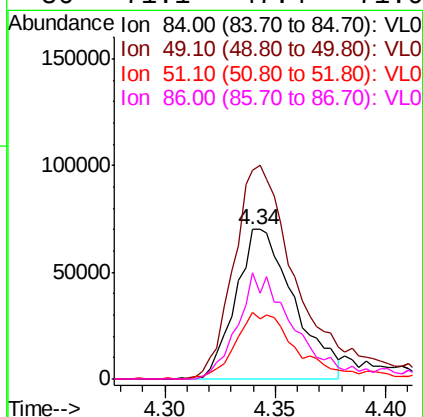
Ion Ratio Lower Upper

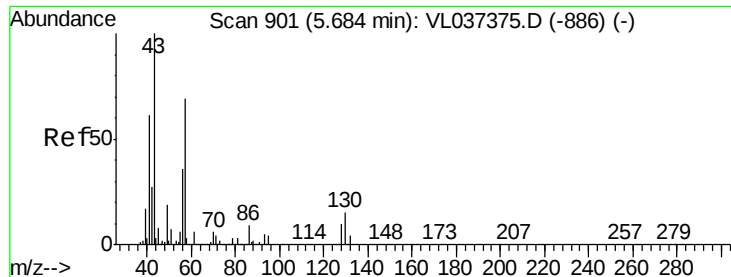
84 100

49 138.9 113.8 170.6

51 44.5 34.7 52.1

86 71.1 47.4 71.0#





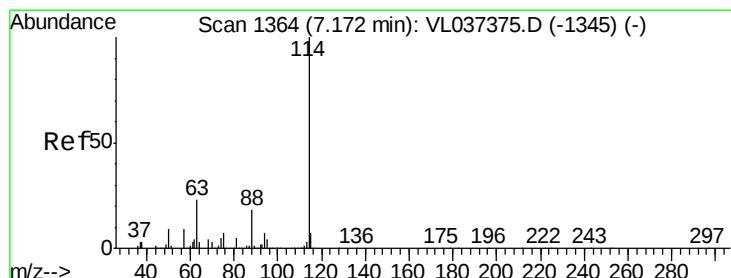
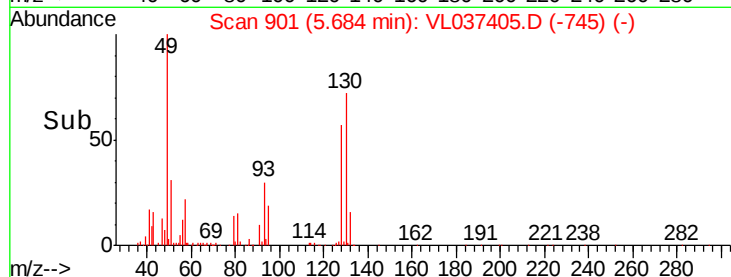
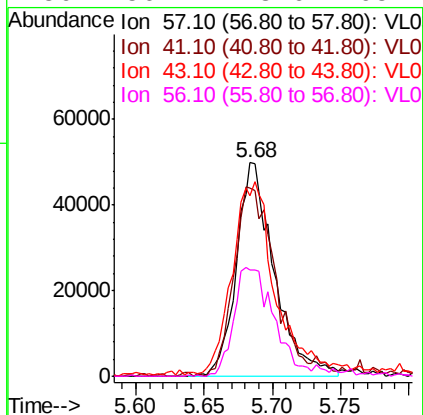
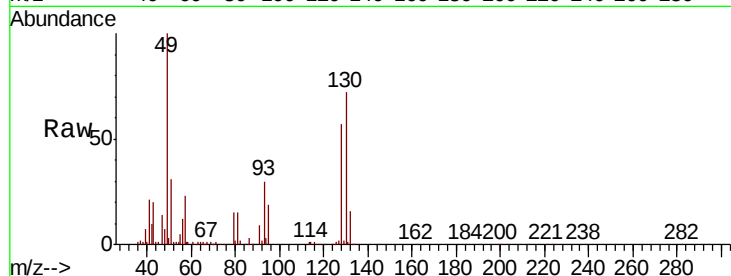
#26
Hexane
Concen: 0.675 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

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

Tot Ion	Ratio	Lower	Upper
57	100		
41	102.7	73.4	110.0
43	111.4	174.4	261.6#
56	56.2	43.6	65.4

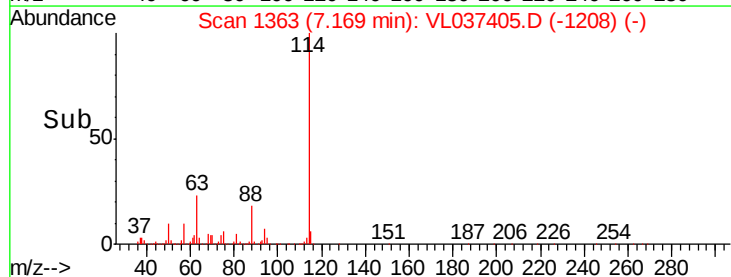
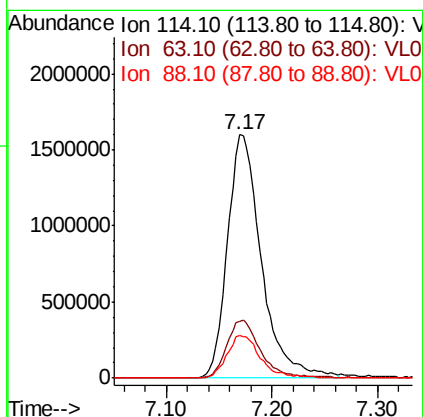
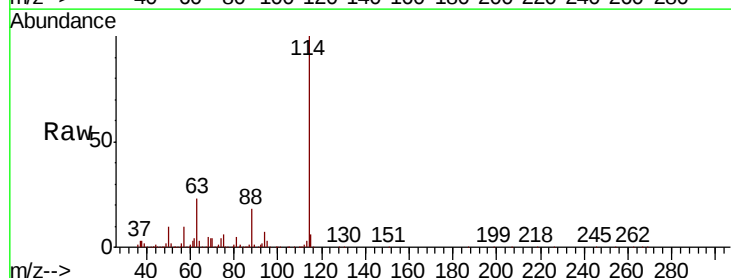
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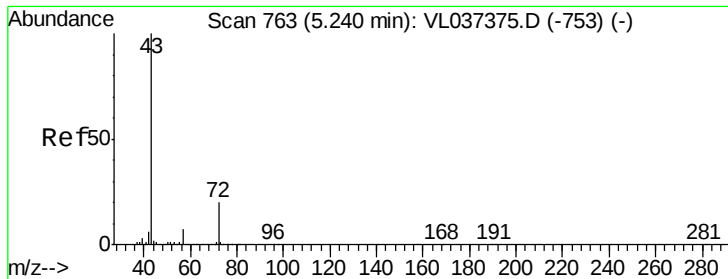
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.5	29.3
88	17.7	14.3	21.5





#34

2-Butanone

Concen: 0.580 ppbv m

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL037405.D

Acq: 12 Aug 2021 1:13

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAY-ROOM-2RE

Tot Ion: 43 Resp: 78597

Ion Ratio Lower Upper

43 100

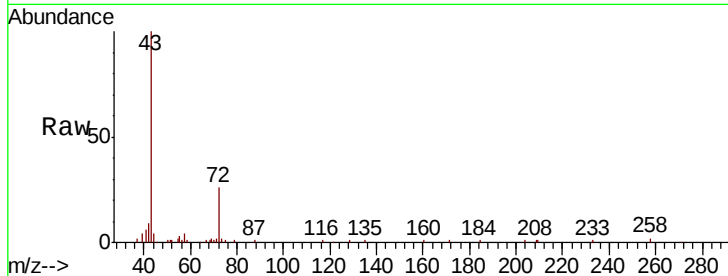
72 22.8 19.6 29.4

Manual Integrations

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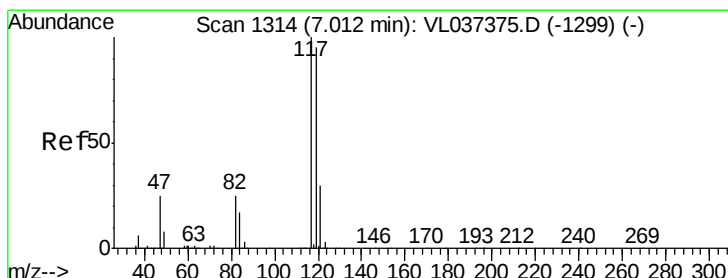
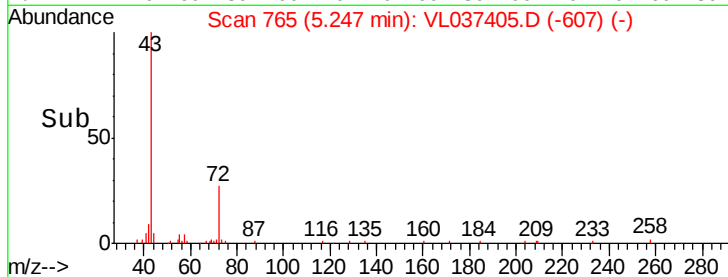
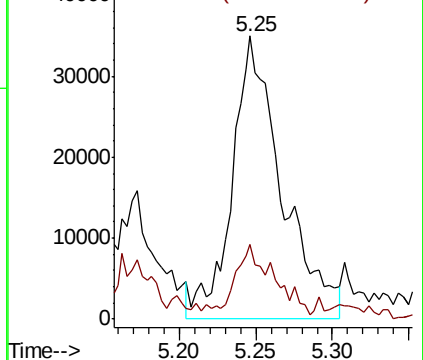
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VL037405.D

Acq: 12 Aug 2021 1:13

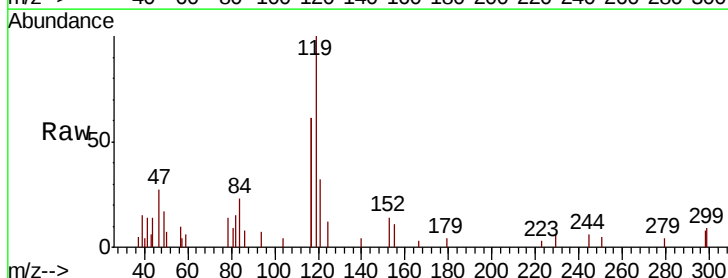
Tgt Ion: 117 Resp: 13415

Ion Ratio Lower Upper

117 100

119 163.5 76.1 114.1#

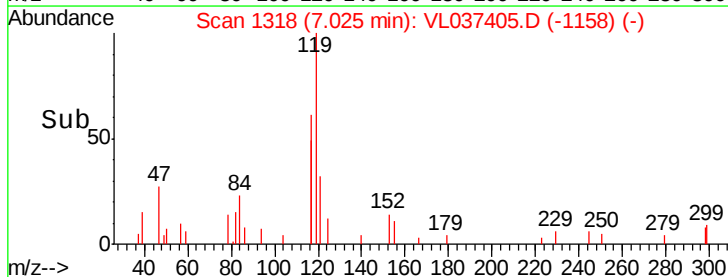
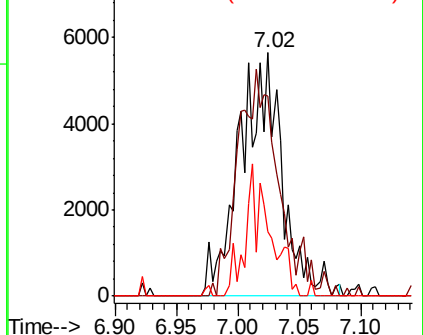
121 52.3 24.4 36.6#

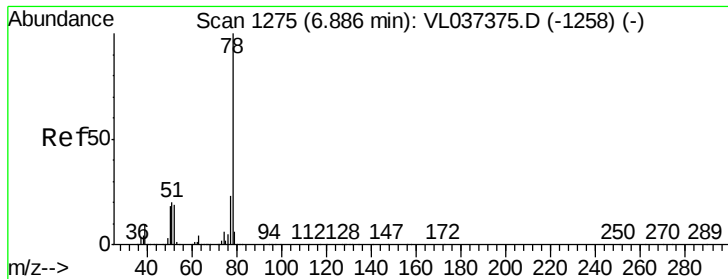


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





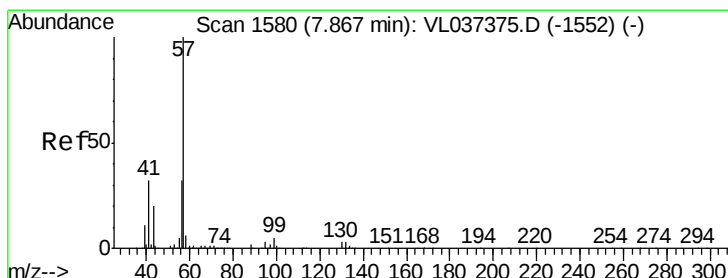
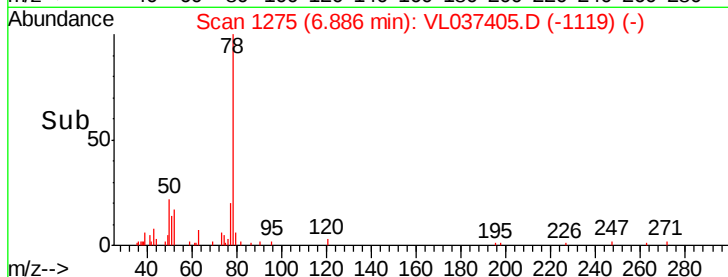
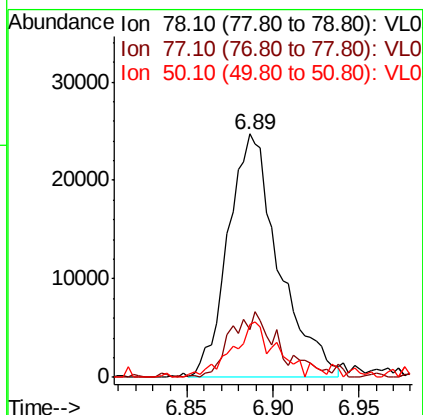
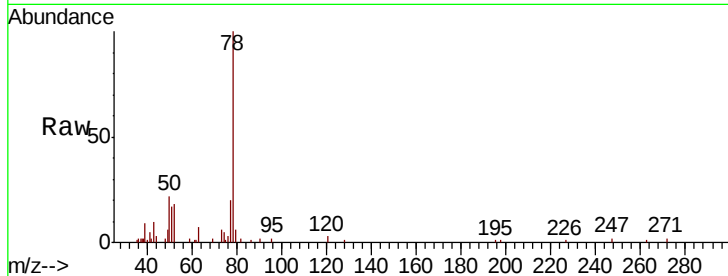
#36
Benzene
Concen: 0.179 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. 0.00 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

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

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.0	18.6	28.0
50	21.1	14.3	21.5

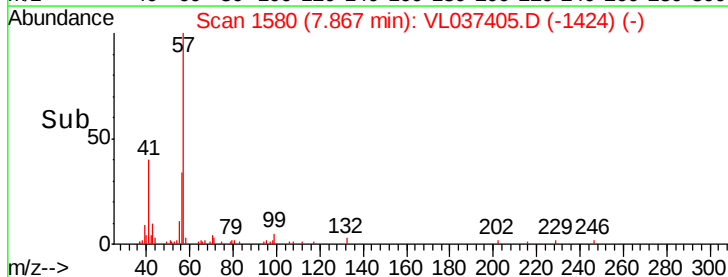
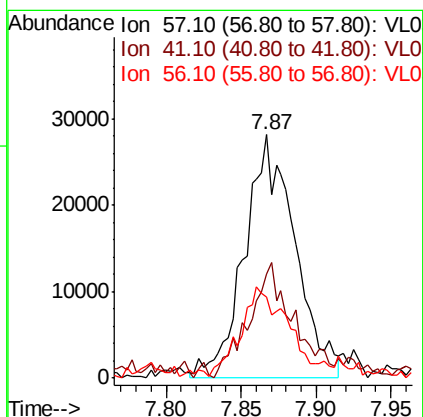
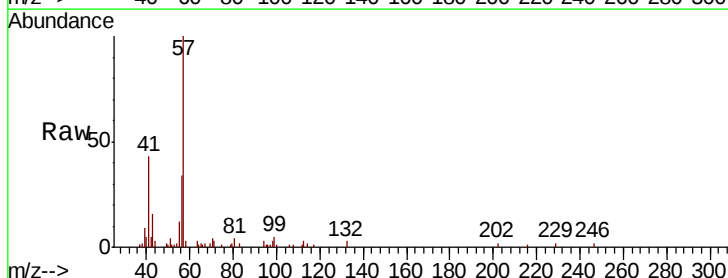
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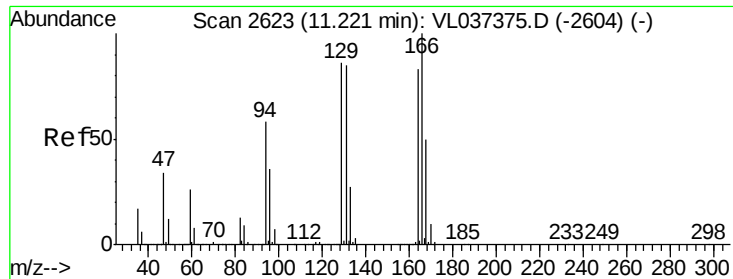
apatel
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#44
2,2,4-Trimethylpentane
Concen: 0.140 ppbv m
RT: 7.87 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.1	39.1#
56	40.7	25.1	37.7#





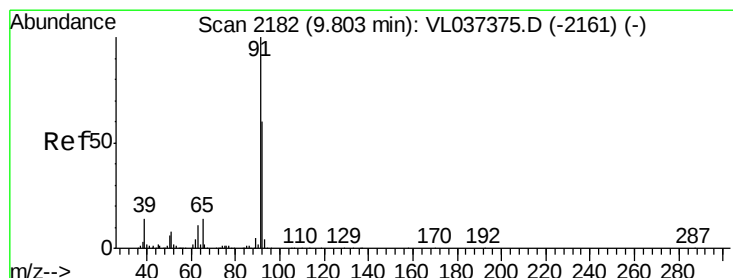
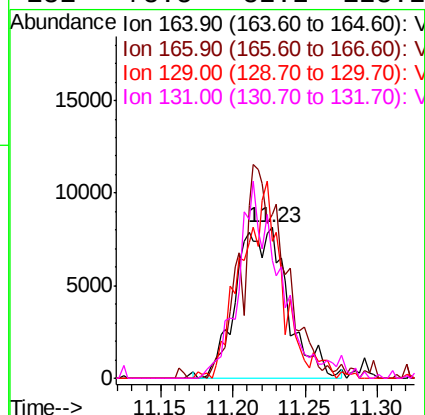
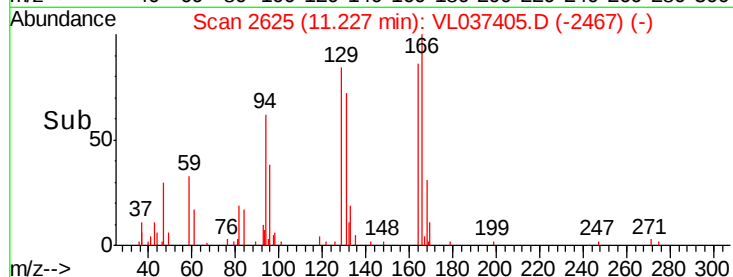
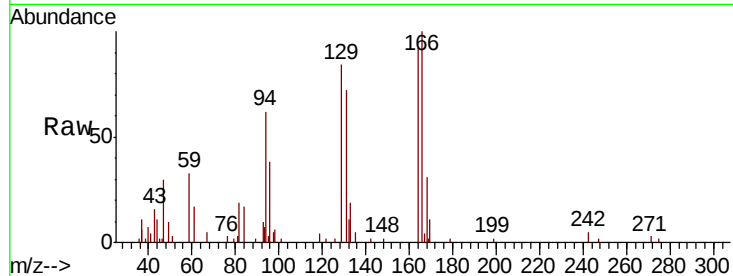
#52
Tetrachloroethene
Concen: 0.175 ppbv m
RT: 11.23 min Scan# 2625
Delta R.T. 0.01 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

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

Tot Ion	Ratio	Lower	Upper
164	100		
166	108.4	96.5	144.7
129	91.2	83.2	124.8
131	78.5	82.2	123.2#

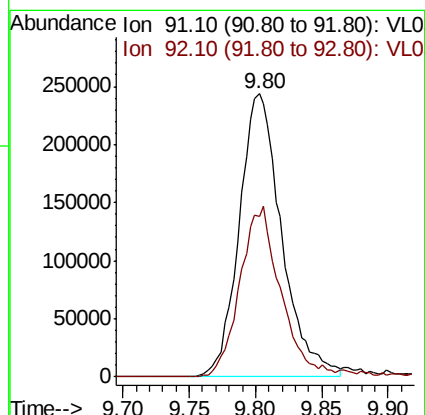
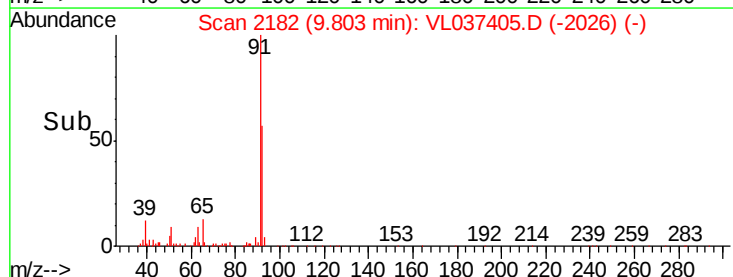
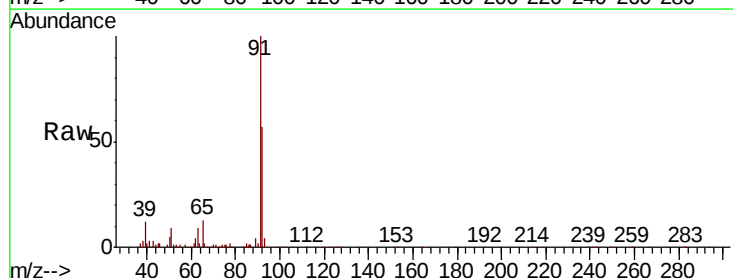
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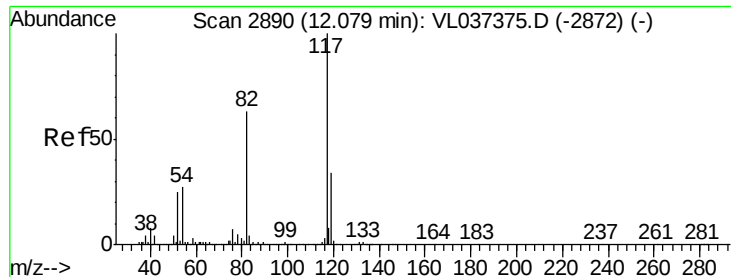
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#53
Toluene
Concen: 1.651 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. 0.00 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.1	72.1





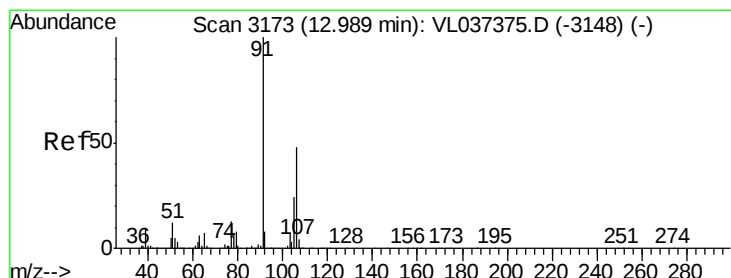
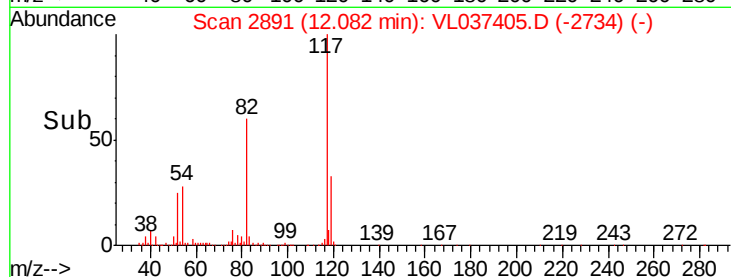
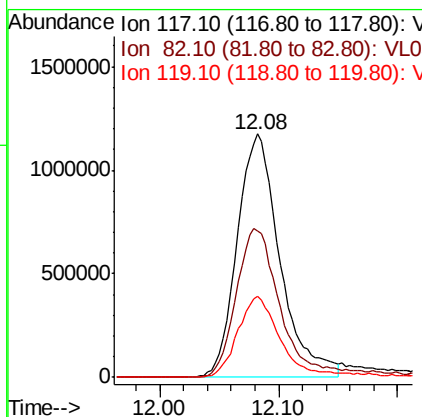
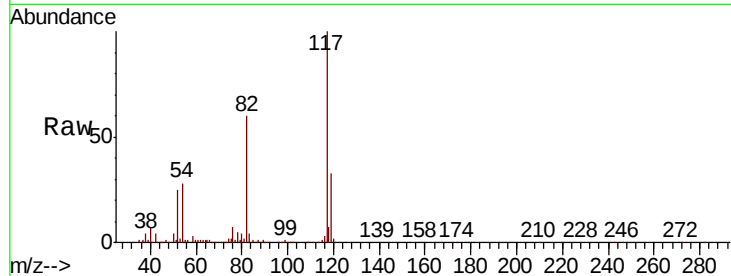
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.1	52.6	78.8
119	34.2	46.7	70.1#

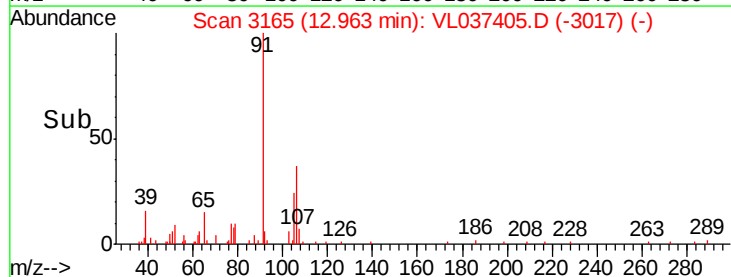
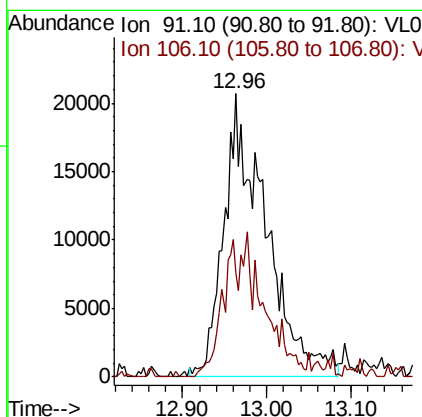
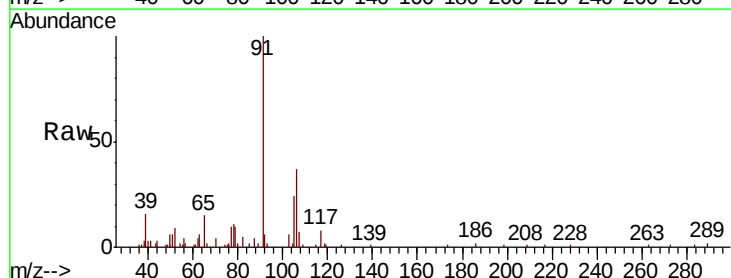
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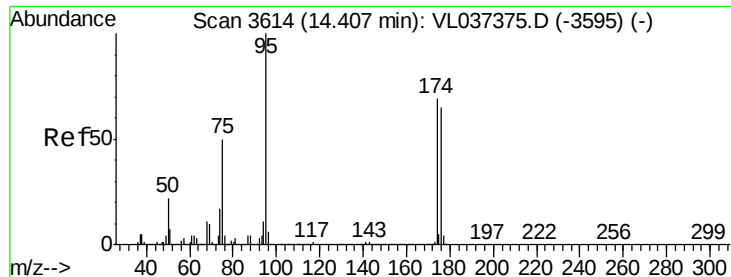
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#59
m/p-Xylene
Concen: 0.213 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.03 min
Lab File: VL037405.D
Acq: 12 Aug 2021 1:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	55.0#





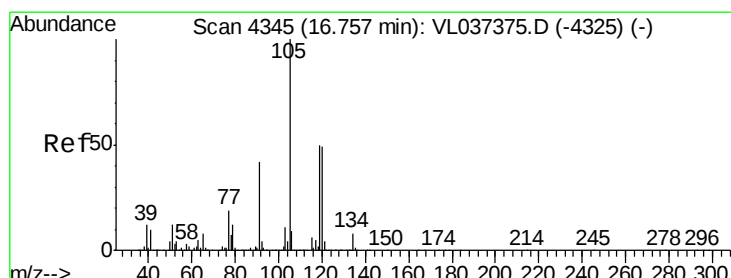
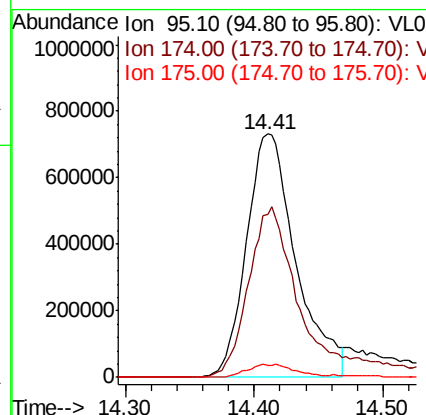
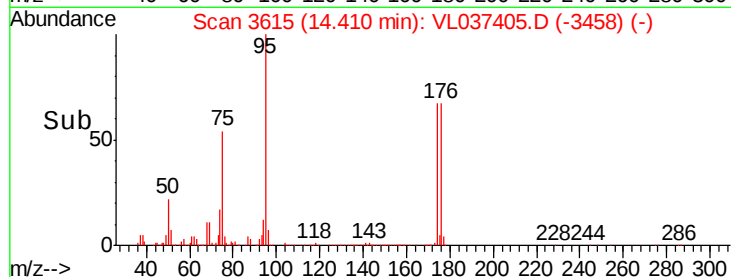
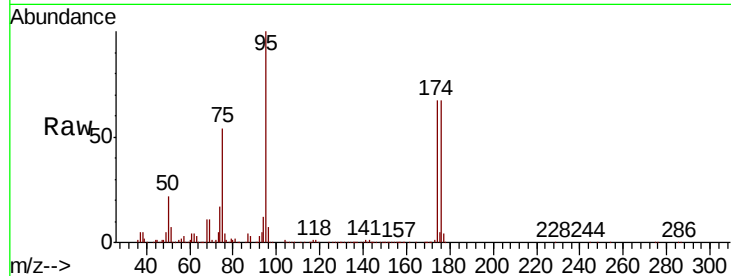
#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.960 ppbv
 RT: 14.41 min Scan# 3615
 Delta R.T. 0.00 min
 Lab File: VL037405.D
 Acq: 12 Aug 2021 1:13

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

Tot Ion	Ratio	Lower	Upper
95	100		
174	78.0	58.3	87.5
175	6.2	4.3	6.5

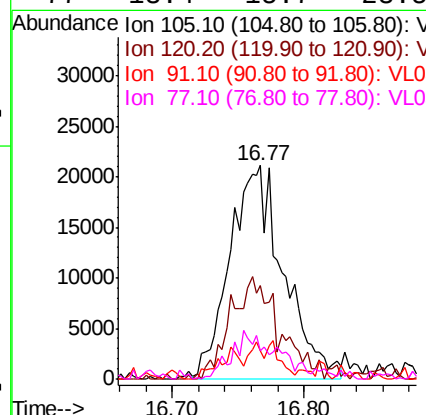
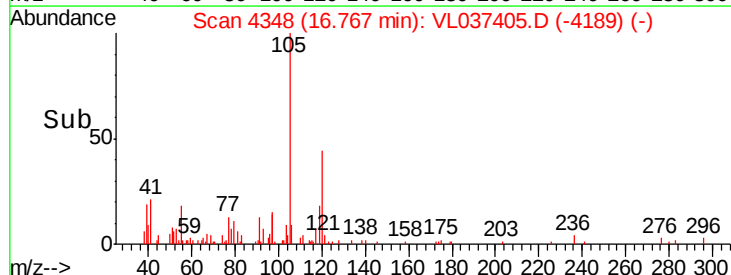
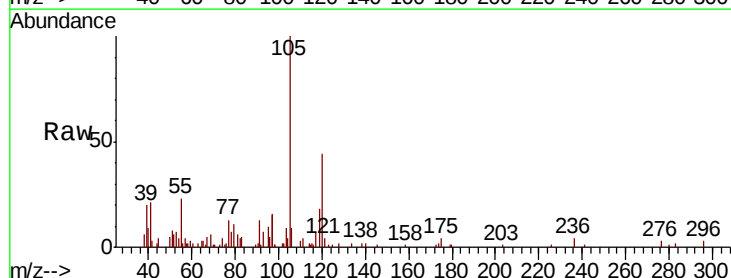
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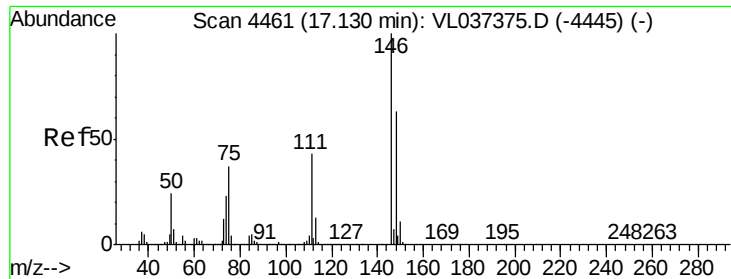
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.175 ppbv m
 RT: 16.77 min Scan# 4348
 Delta R.T. 0.01 min
 Lab File: VL037405.D
 Acq: 12 Aug 2021 1:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.9	39.0	58.4
91	13.4	34.4	51.6#
77	13.4	15.7	23.5#





#76
 1,4-Dichlorobenzene
 Concen: 0.118 ppbv m
 RT: 17.14 min Scan# 4463
 Delta R.T. 0.01 min
 Lab File: VL037405.D
 Acq: 12 Aug 2021 1:13

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	62.2	22.8	68.4
148	0.0	33.3	99.8#

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