

Data File : VL034709.D
Acq On : 27 Feb 2020 15:14
Operator : SY/AP
Sample : L1662-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

Quant Time: Feb 28 01:07:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	965844	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	1969067	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.14	117	1948663	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1652058	10.34	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	95023	0.624	ppbv	97
3) Chlorodifluoromethane	2.94	51	179201	1.719	ppbv #	72
4) Chloromethane	3.12	50	31631	0.542	ppbv	92
9) Propene	3.18	41	251493	5.772	ppbv	93
10) Heptane	8.16	43	2919	0.026	ppbv #	26
11) Trichlorofluoromethane	3.94	101	36828	0.276	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.48	101	8025	0.085	ppbv	98
13) Ethanol	3.59	45	1069760	77.721	ppbv	96
15) Acetone	3.84	43	1378398	12.524	ppbv	98
16) 1,3-Butadiene	3.29	39	12711	0.249	ppbv #	39
17) tert-Butyl alcohol	4.30	59	22721	0.269	ppbv #	72
19) Isopropyl Alcohol	3.97	45	57423	0.876	ppbv #	1
20) Methylene Chloride	4.34	84	89250	2.180	ppbv	94
21) Allyl Chloride	4.30	41	11954	0.164	ppbv #	43
23) Vinyl Acetate	5.07	43	8011	0.054	ppbv #	51
25) Ethyl Acetate	5.70	43	104352	0.536	ppbv #	83
26) Hexane	5.70	57	139875	1.558	ppbv #	42
30) Cyclohexane	7.16	84	1716	0.025	ppbv #	1
34) 2-Butanone	5.26	43	20684	0.167	ppbv #	75
35) Carbon Tetrachloride	7.04	117	6679	0.051	ppbv #	80
36) Benzene	6.91	78	50895	0.299	ppbv #	88
39) 1,2-Dichloropropane	7.20	63	572123	8.456	ppbv #	24
44) 2,2,4-Trimethylpentane	7.90	57	11874	0.040	ppbv #	1
53) Toluene	9.85	91	615748	3.404	ppbv	100
58) Ethyl Benzene	12.76	91	13533	0.057	ppbv	94
59) m/p-Xylene	13.04	91	28237	0.137	ppbv #	32
60) o-Xylene	13.75	91	10813	0.053	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.83	105	5654	0.023	ppbv #	66

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

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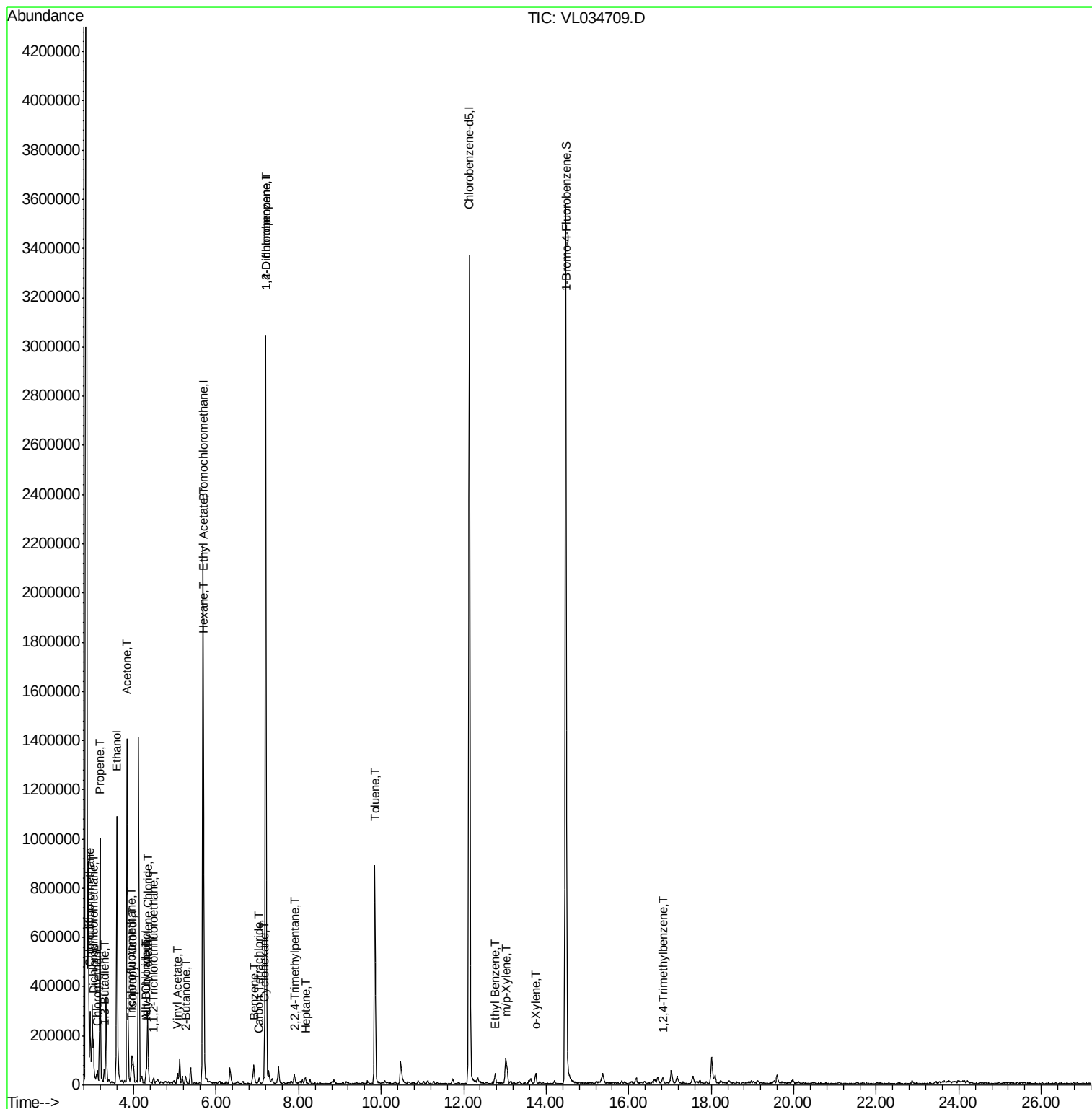
Quant Time: Feb 28 01:07:53 2020

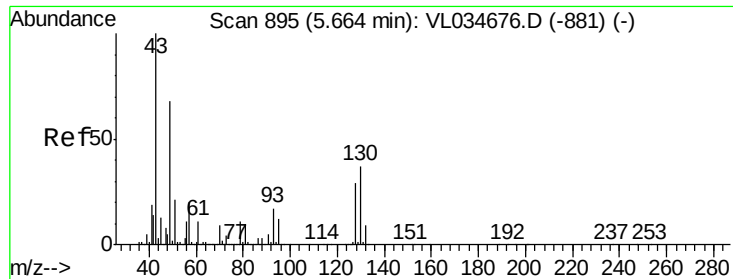
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020

QLast Update : Wed Feb 26 06:58:15 2020

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.02 min

Lab File: VL034709.D

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Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

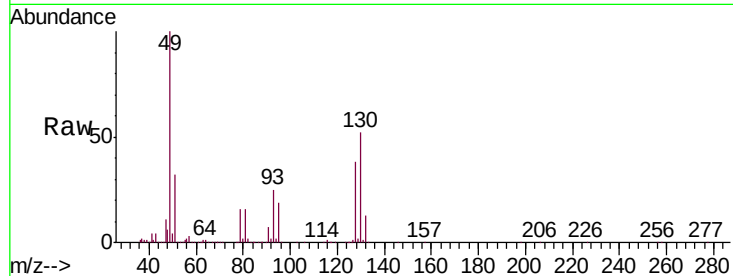
Tgt Ion: 49 Resp: 965844

Ion Ratio Lower Upper

49 100

128 43.3 21.6 65.0

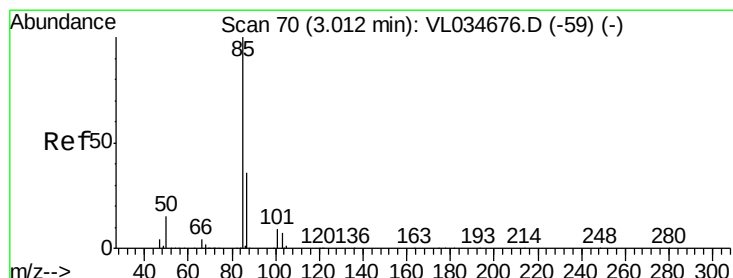
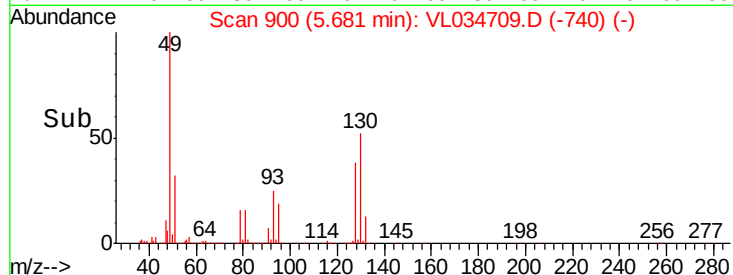
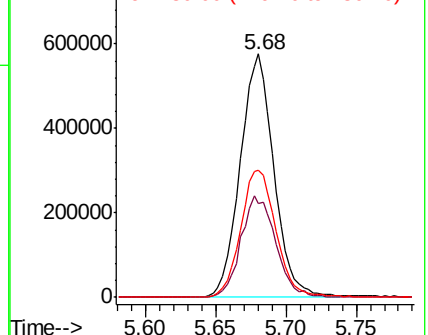
130 54.8 27.7 83.1



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: 0.624 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL034709.D

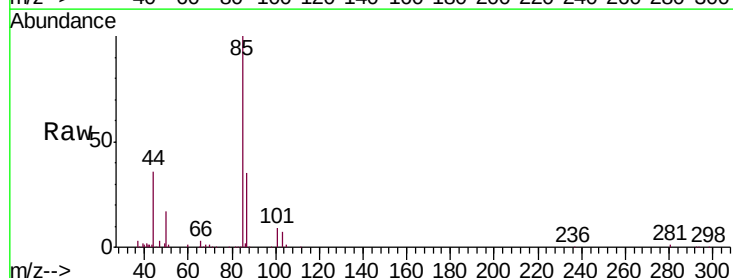
Acq: 27 Feb 2020 15:14

Tgt Ion: 85 Resp: 95023

Ion Ratio Lower Upper

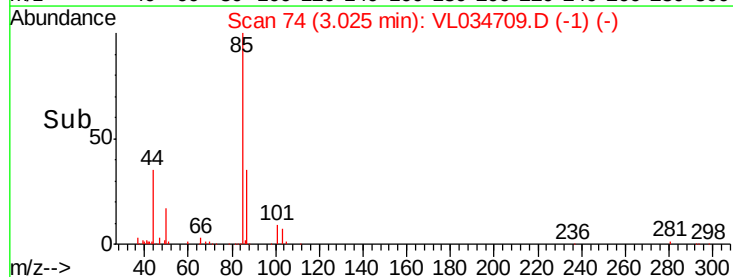
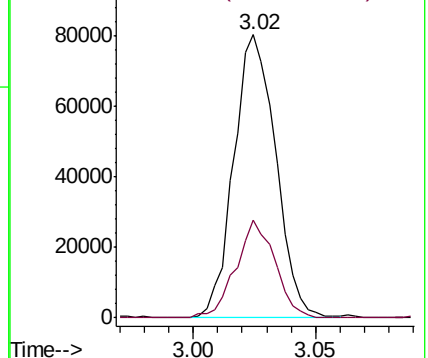
85 100

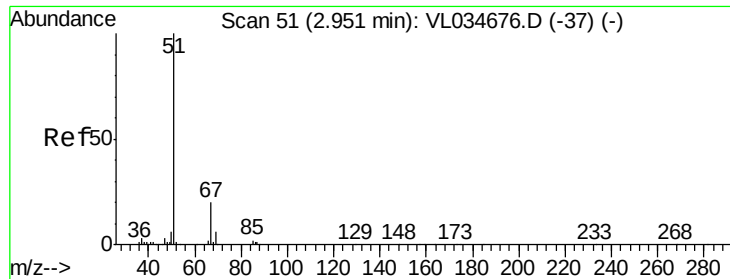
87 34.9 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

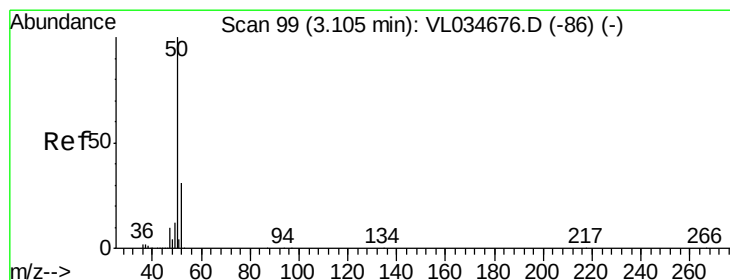
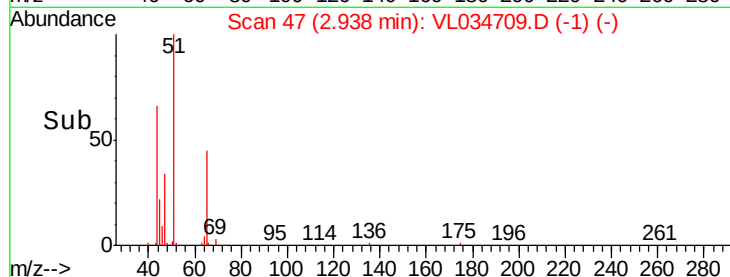
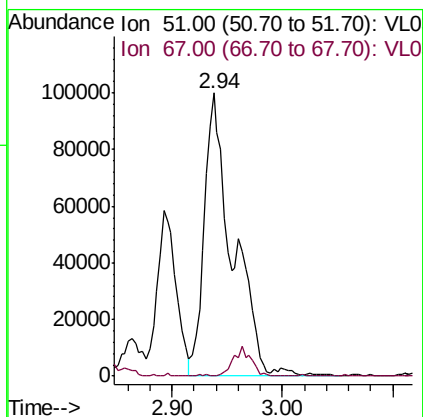
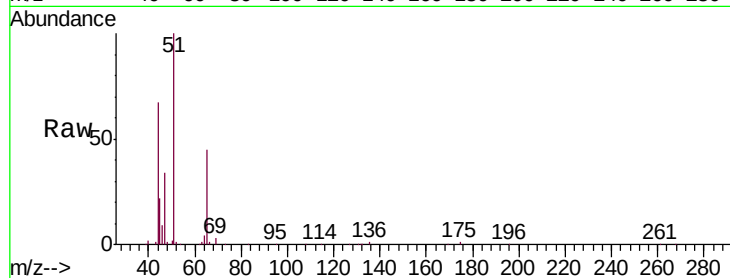




#3
Chlorodifluoromethane
Concen: 1.719 ppbv
RT: 2.94 min Scan# 47
Delta R.T. -0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

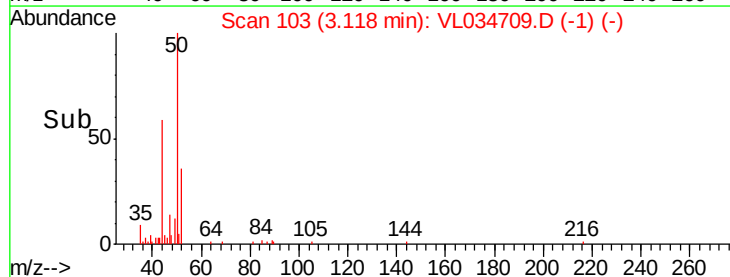
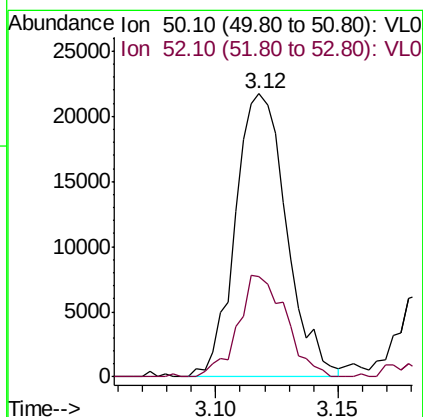
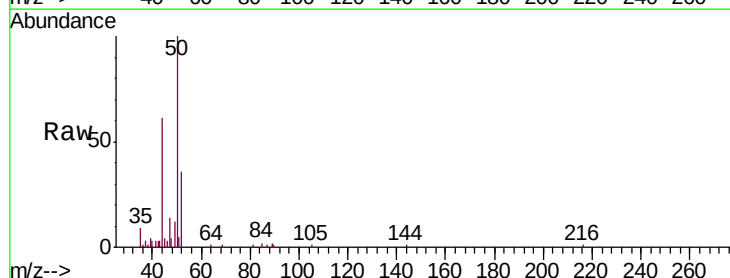
Instrument :
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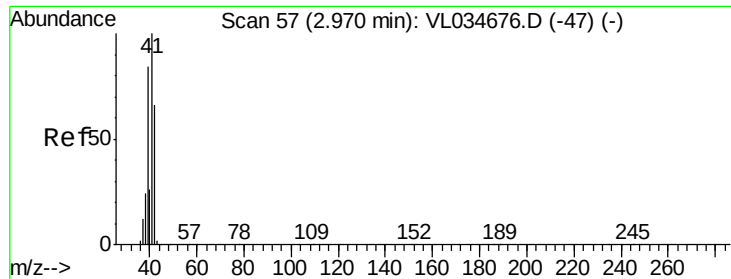
Tgt Ion: 51 Resp: 179201
Ion Ratio Lower Upper
51 100
67 6.7 15.5 23.3#



#4
Chloromethane
Concen: 0.542 ppbv
RT: 3.12 min Scan# 103
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 50 Resp: 31631
Ion Ratio Lower Upper
50 100
52 35.6 25.0 37.4





#9

Propene

Concen: 5.772 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.21 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

ClientSampleId :

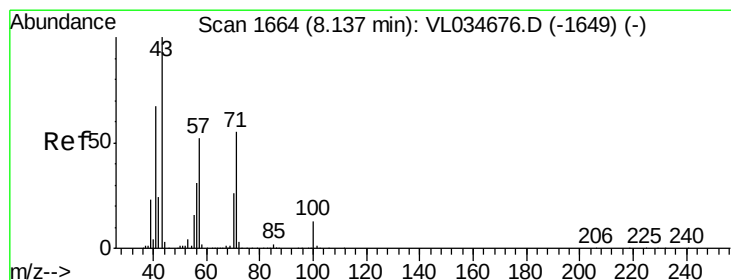
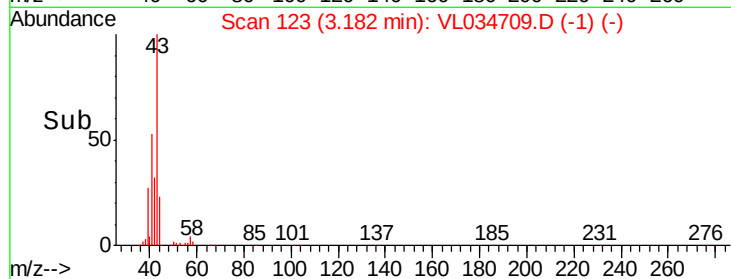
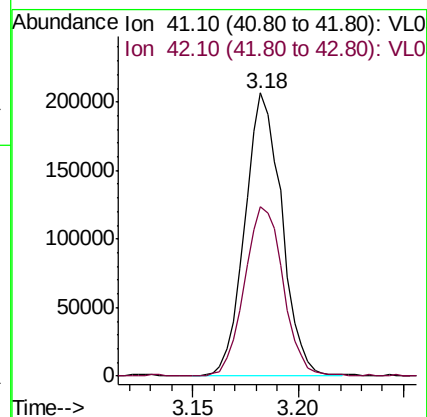
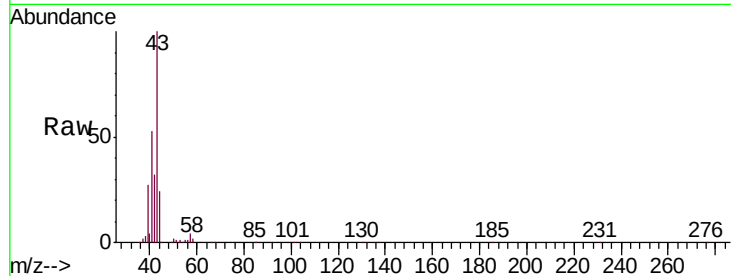
IAS-2-MUSIC-ROOM

Tgt Ion: 41 Resp: 251493

Ion Ratio Lower Upper

41 100

42 63.1 54.9 82.3



#10

Heptane

Concen: 0.026 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. 0.02 min

Lab File: VL034709.D

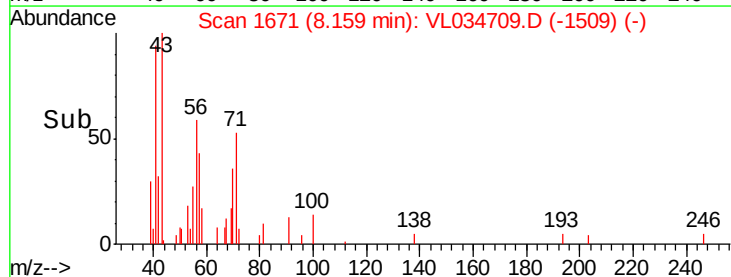
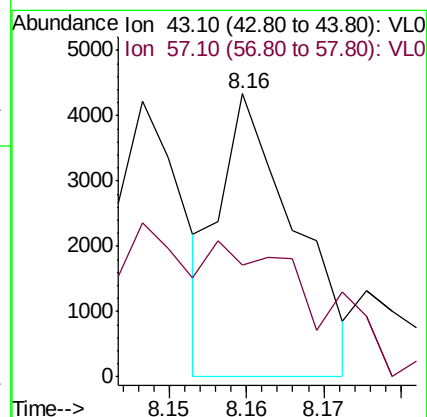
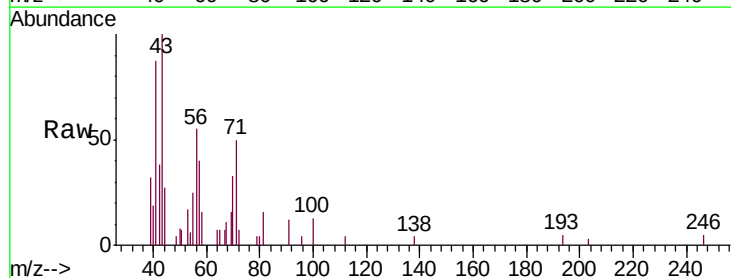
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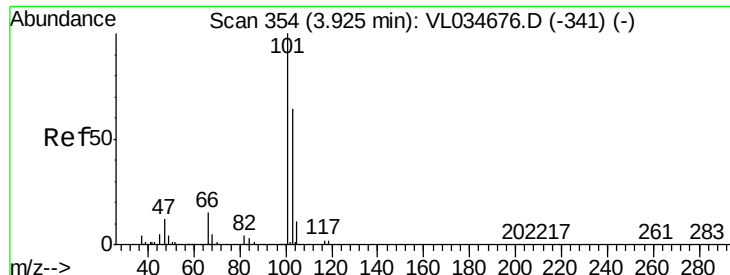
Tgt Ion: 43 Resp: 2919

Ion Ratio Lower Upper

43 100

57 0.0 41.0 61.6#

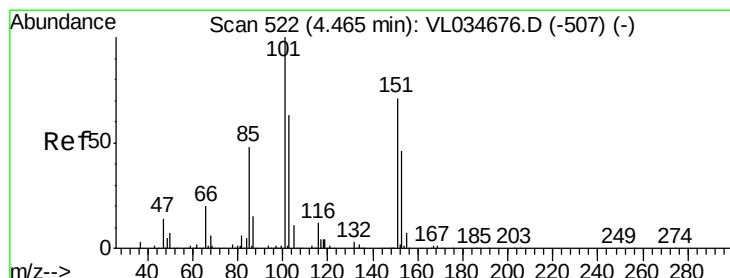
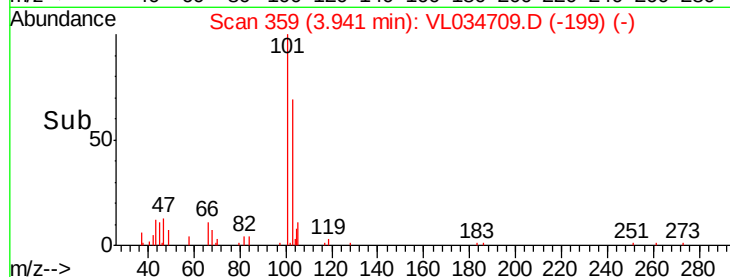
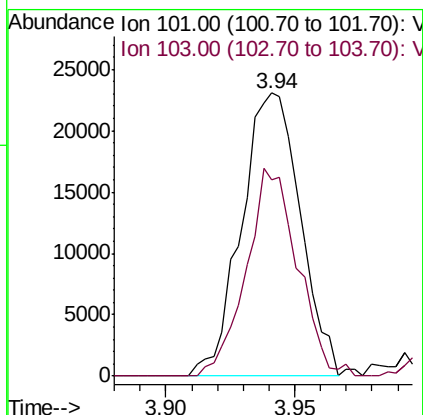
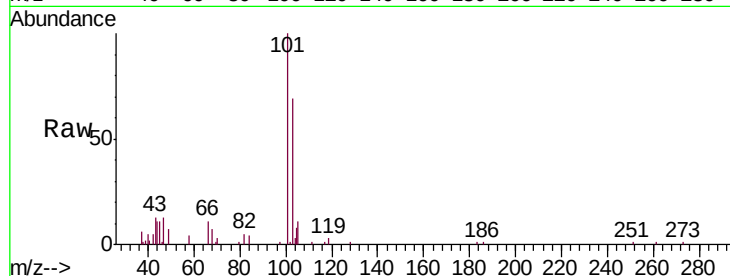




#11
 Trichlorofluoromethane
 Concen: 0.276 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.02 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

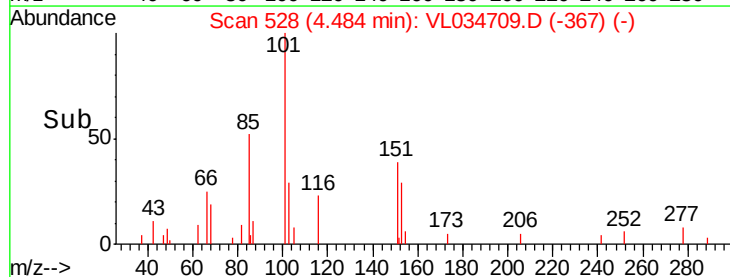
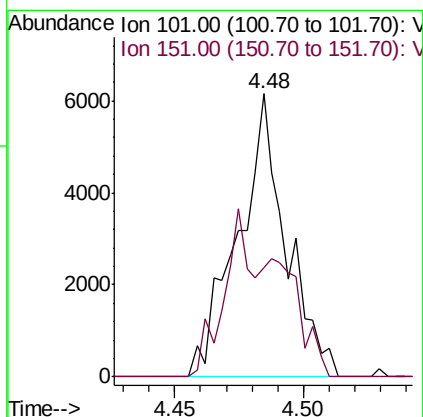
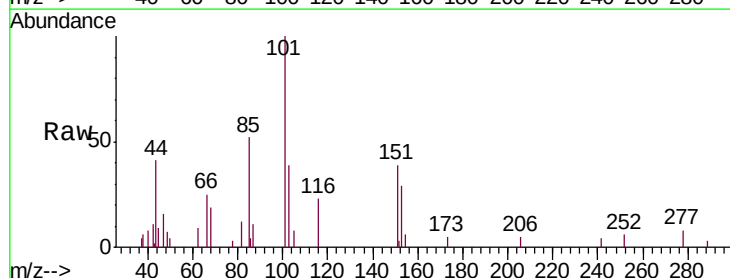
Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOM

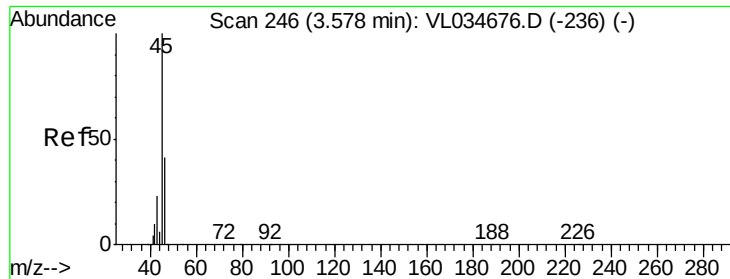
Tgt Ion:101 Resp: 36828
 Ion Ratio Lower Upper
 101 100
 103 69.3 51.2 76.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.085 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T. 0.02 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

Tgt Ion:101 Resp: 8025
 Ion Ratio Lower Upper
 101 100
 151 67.9 55.8 83.6

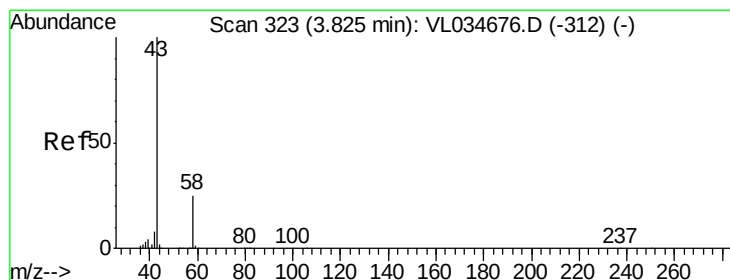
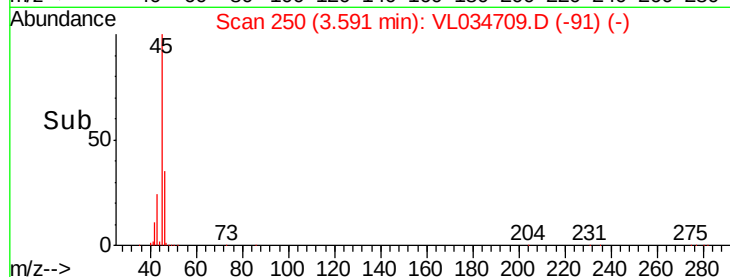
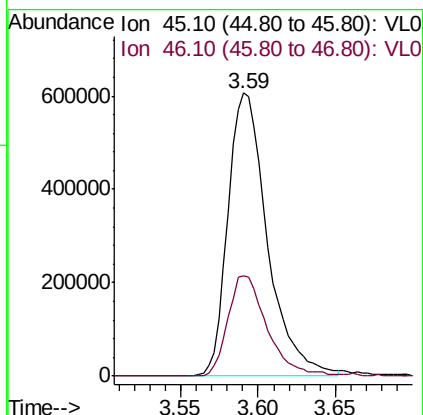
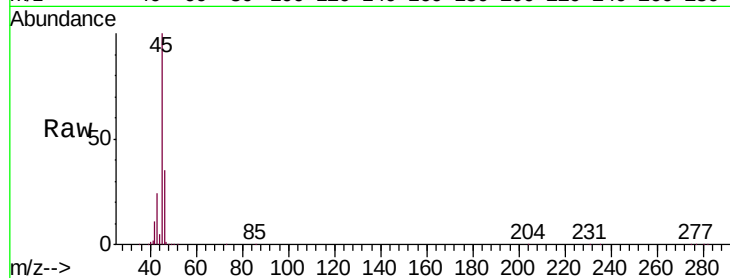




#13
Ethanol
Concen: 77.721 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

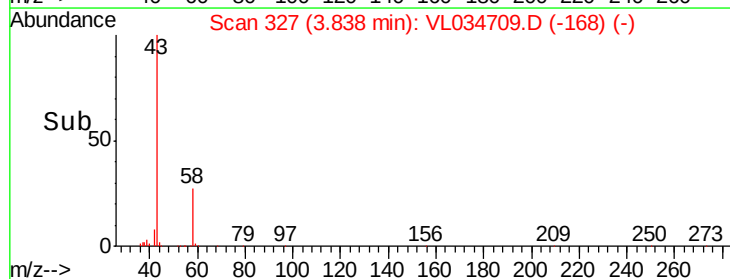
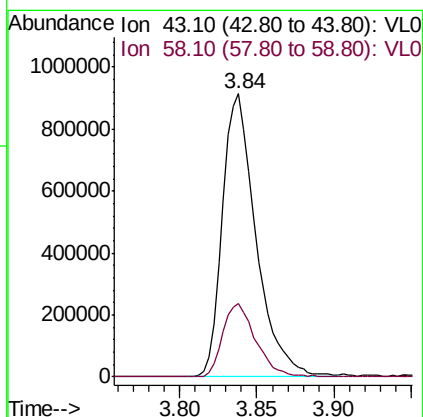
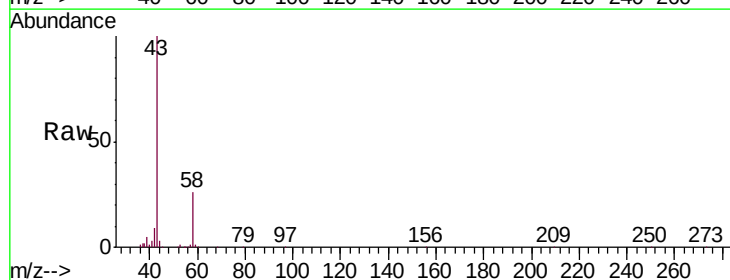
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MSVOA_L
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IAS-2-MUSIC-ROOM

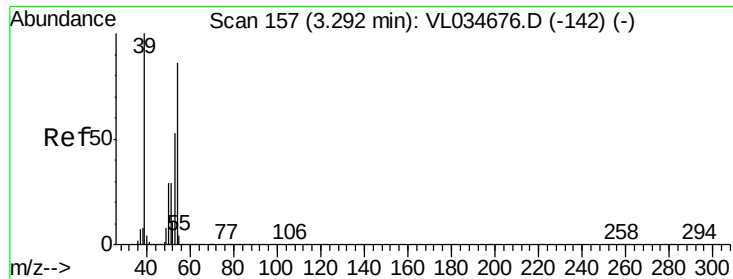
Tgt Ion: 45 Resp: 1069760
Ion Ratio Lower Upper
45 100
46 35.9 15.4 61.4



#15
Acetone
Concen: 12.524 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 43 Resp: 1378398
Ion Ratio Lower Upper
43 100
58 25.6 21.4 32.0

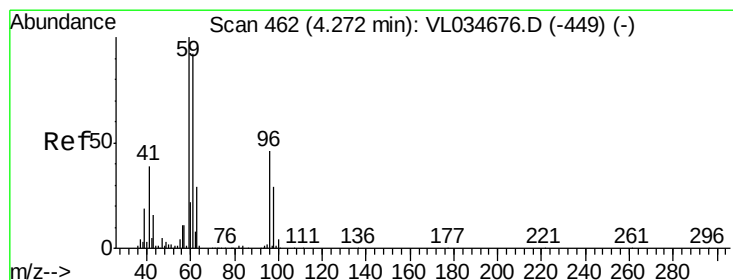
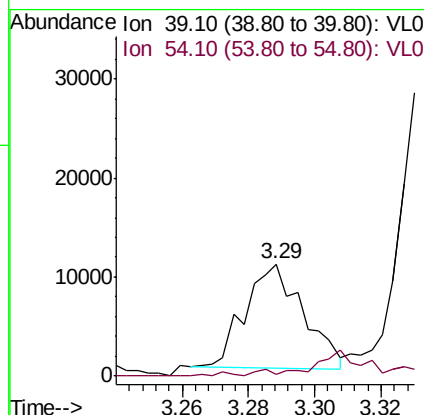
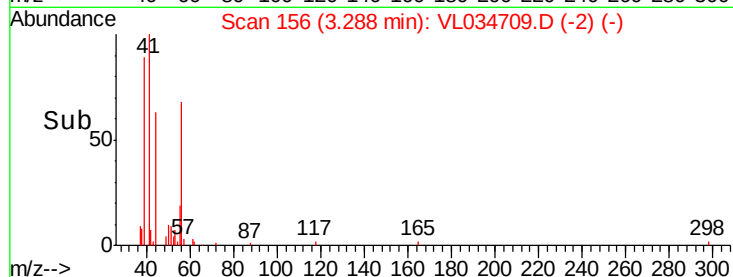
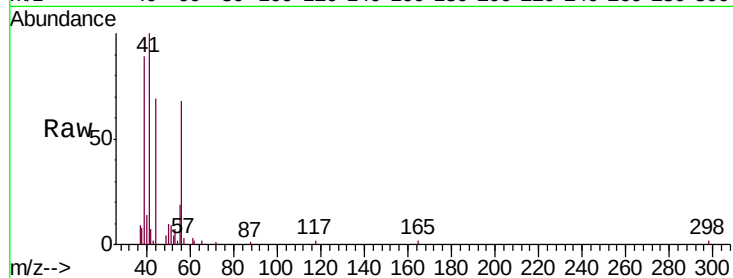




#16
1,3-Butadiene
Concen: 0.249 ppbv
RT: 3.29 min Scan# 156
Delta R.T. -0.00 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

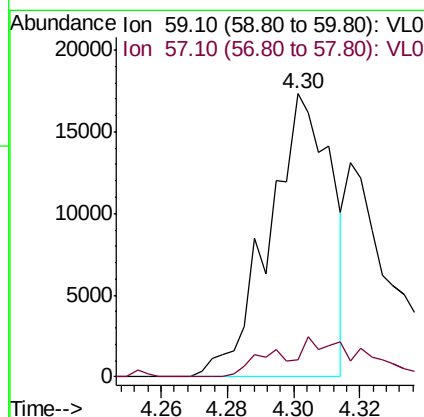
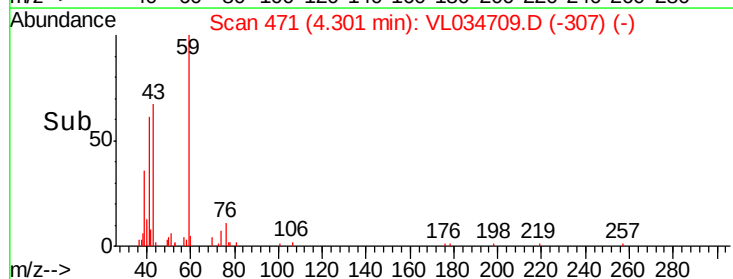
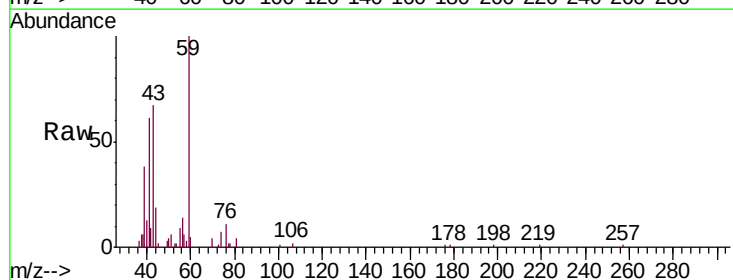
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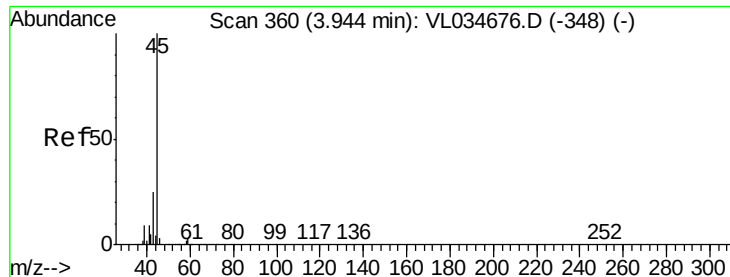
Tgt Ion: 39 Resp: 12711
Ion Ratio Lower Upper
39 100
54 29.0 67.0 100.6#



#17
tert-Butyl alcohol
Concen: 0.269 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.03 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 59 Resp: 22721
Ion Ratio Lower Upper
59 100
57 21.7 8.8 13.2#





#19

Isopropyl Alcohol

Concen: 0.876 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

ClientSampleId :

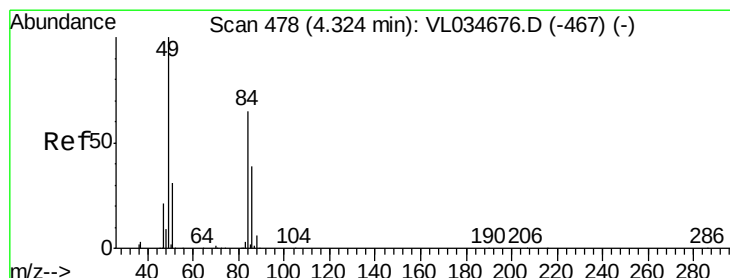
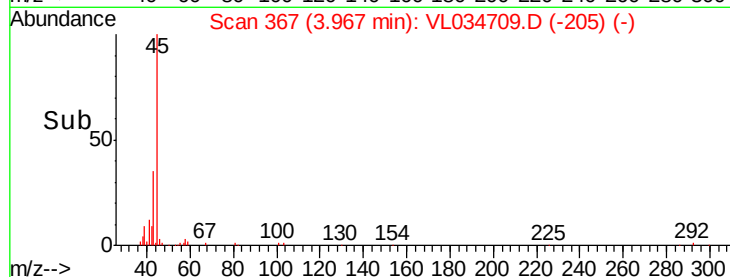
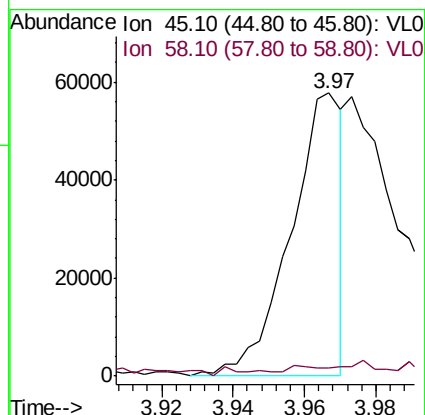
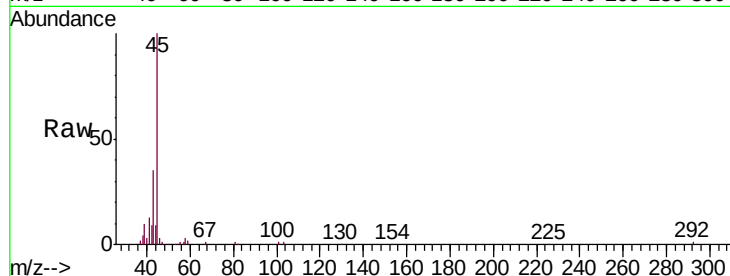
IAS-2-MUSIC-ROOM

Tgt Ion: 45 Resp: 57423

Ion Ratio Lower Upper

45 100

58 616.9 1.8 2.6#



#20

Methylene Chloride

Concen: 2.180 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Tgt Ion: 84 Resp: 89250

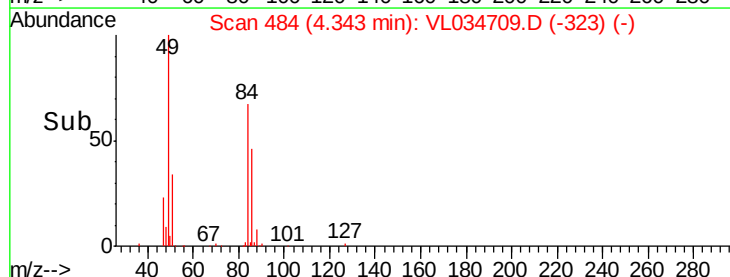
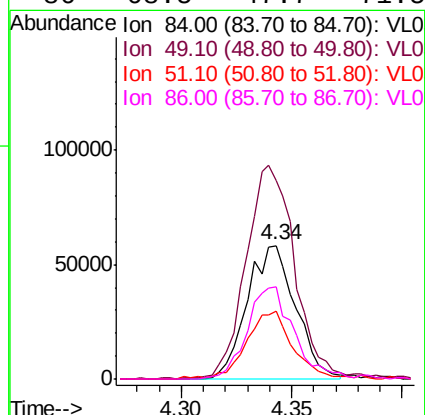
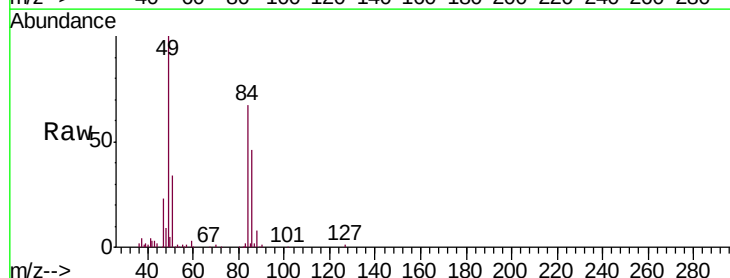
Ion Ratio Lower Upper

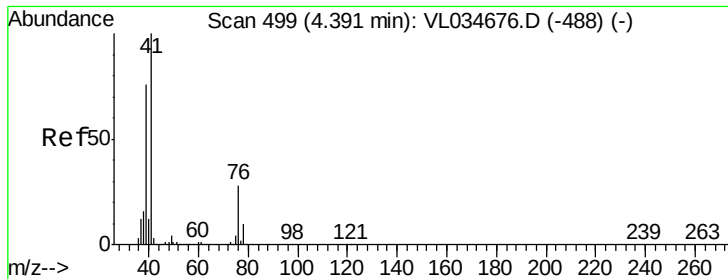
84 100

49 147.6 122.8 184.2

51 50.4 38.6 58.0

86 68.5 47.7 71.5

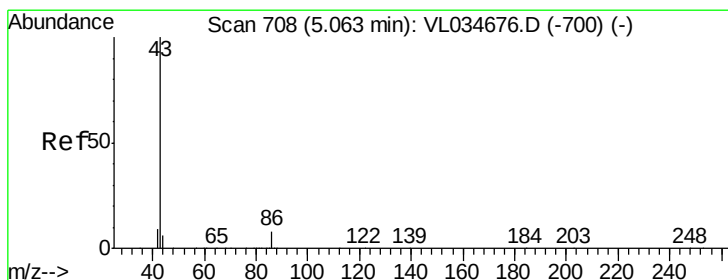
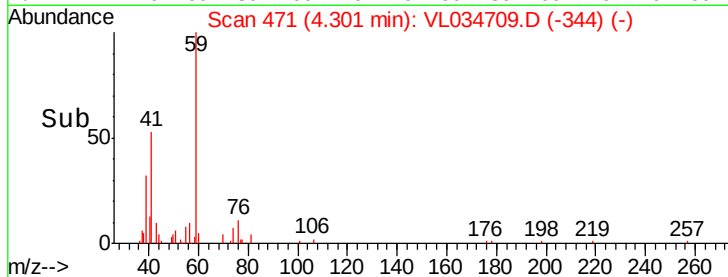
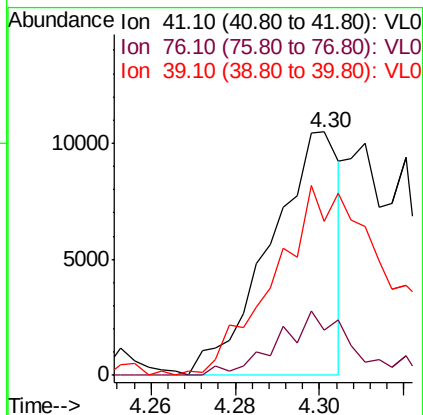
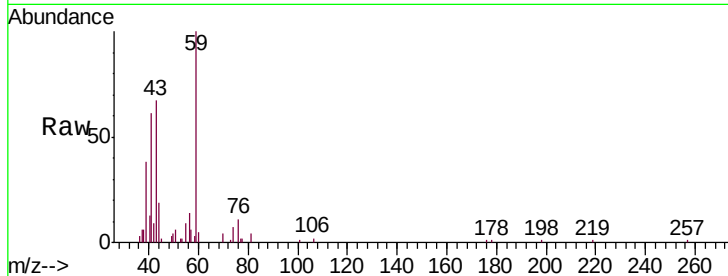




#21
 Allyl Chloride
 Concen: 0.164 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. -0.09 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

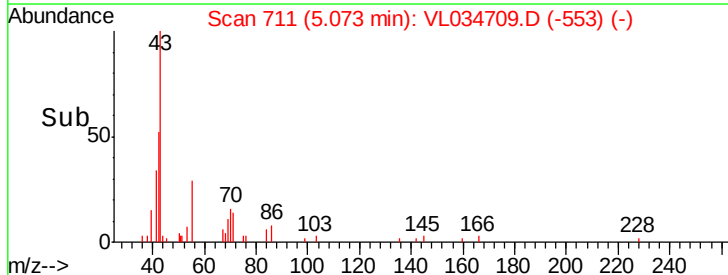
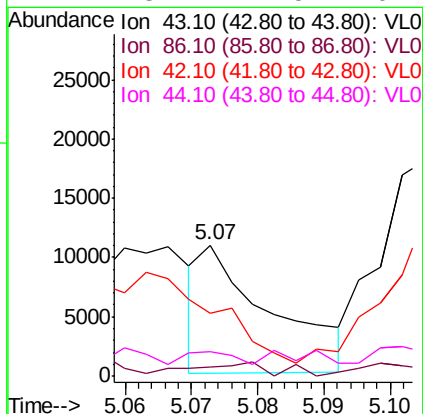
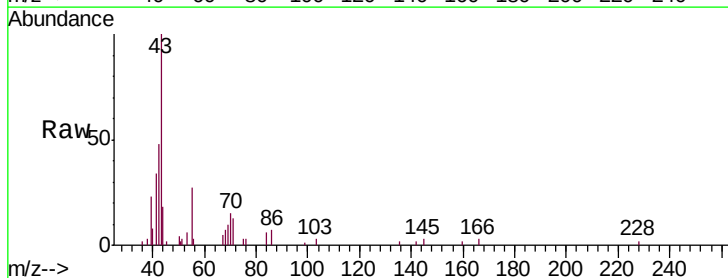
Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOM

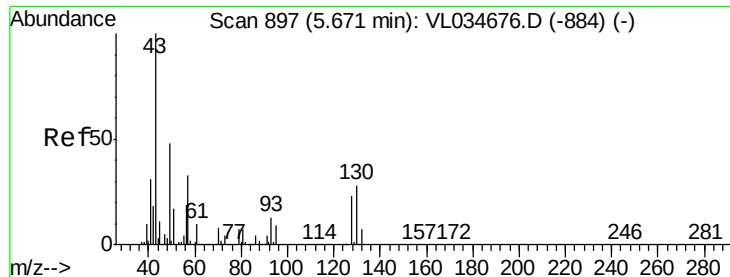
Tgt Ion: 41 Resp: 11954
 Ion Ratio Lower Upper
 41 100
 76 28.4 22.8 34.2
 39 144.7 61.7 92.5#



#23
 Vinyl Acetate
 Concen: 0.054 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. 0.01 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

Tgt Ion: 43 Resp: 8011
 Ion Ratio Lower Upper
 43 100
 86 6.6 6.0 9.0
 42 46.7 8.0 12.0#
 44 13.1 4.5 6.7#

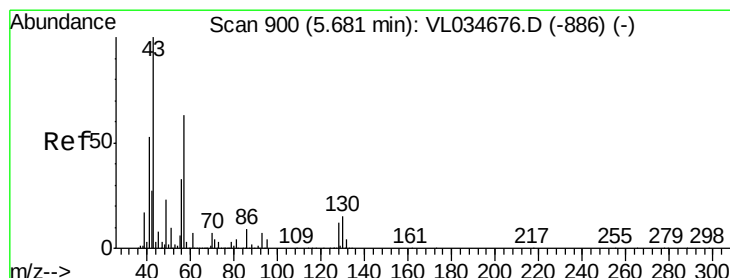
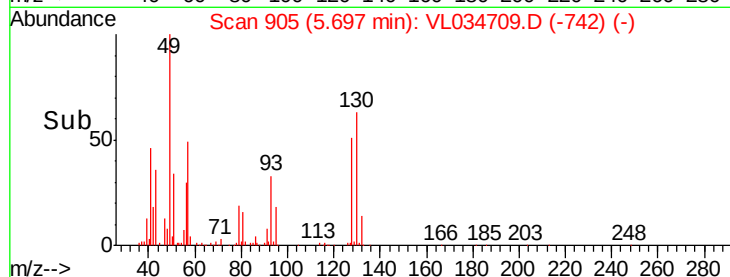
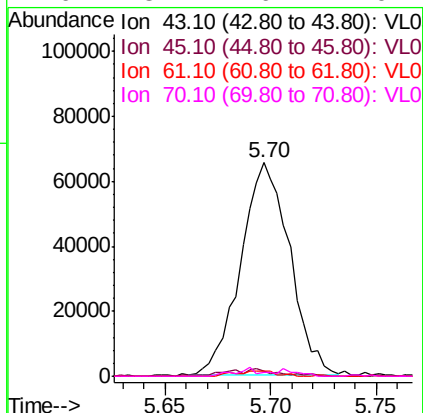
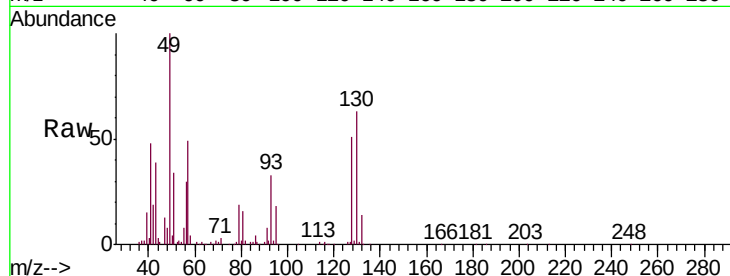




#25
Ethyl Acetate
Concen: 0.536 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

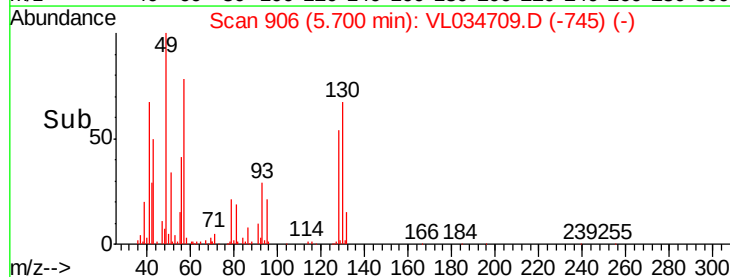
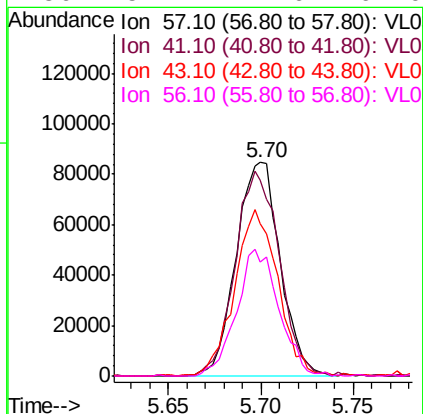
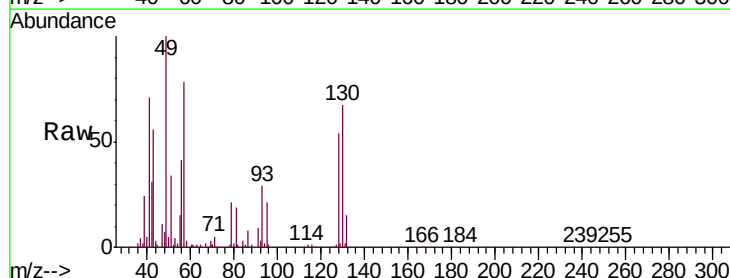
Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

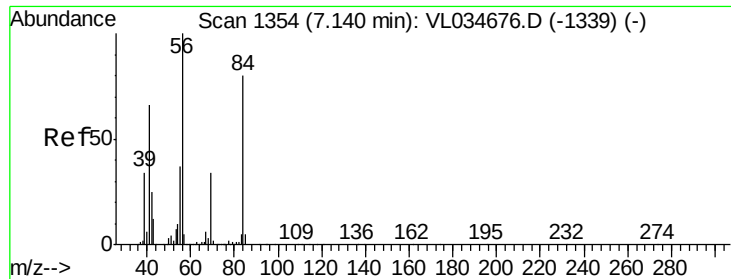
Tgt Ion:	43	Resp:	104352
Ion	Ratio	Lower	Upper
43	100		
45	3.8	8.2	12.4#
61	2.2	7.8	11.6#
70	3.4	6.1	9.1#



#26
Hexane
Concen: 1.558 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion:	57	Resp:	139875
Ion	Ratio	Lower	Upper
57	100		
41	97.8	70.3	105.5
43	77.4	177.0	265.4#
56	57.4	42.6	64.0

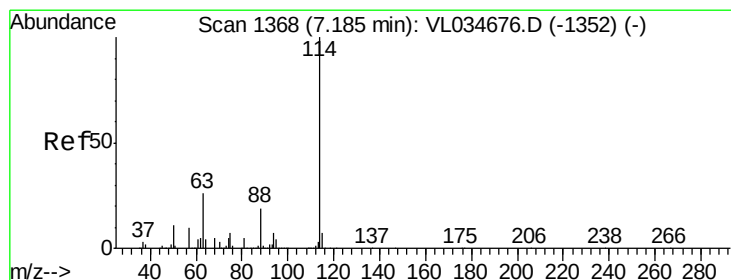
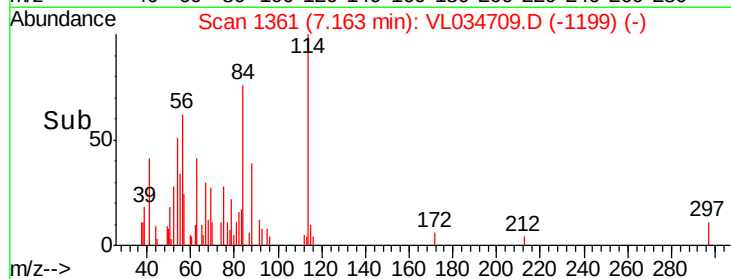
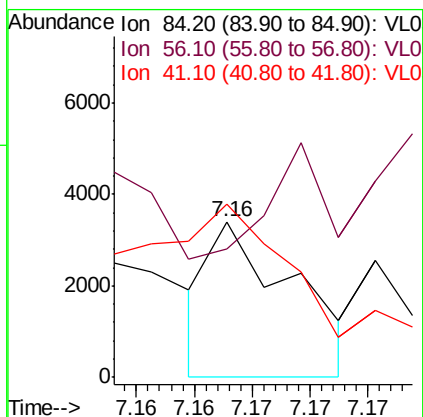
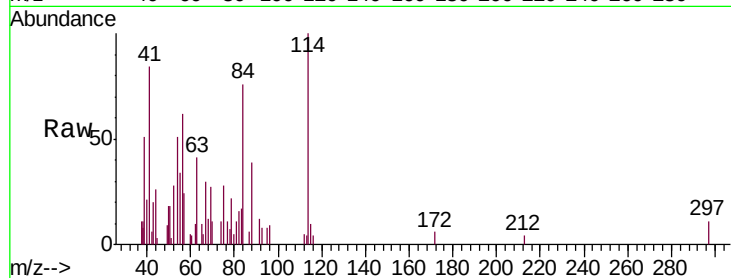




#30
Cyclohexane
Concen: 0.025 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

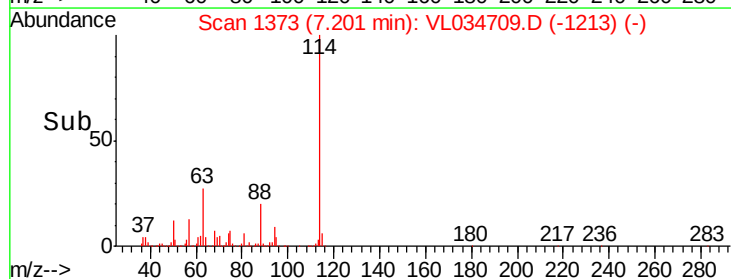
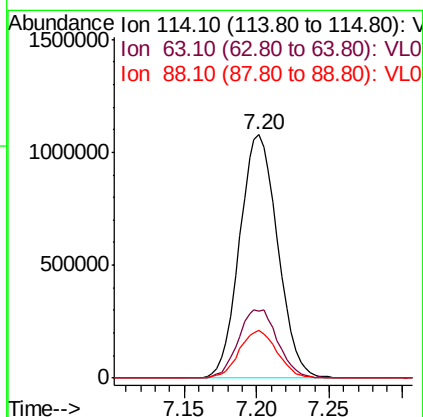
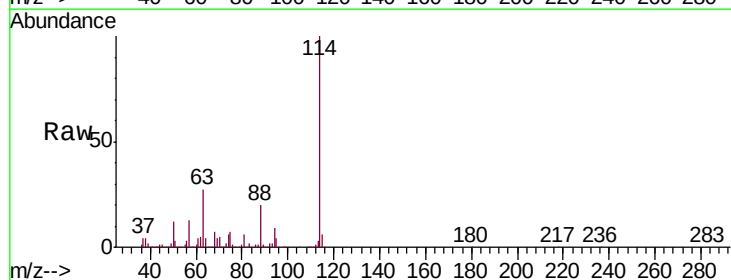
Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

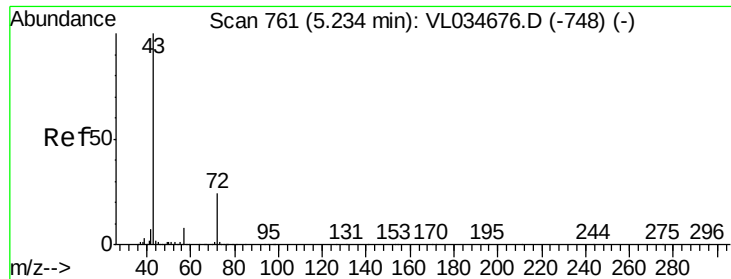
Tgt Ion: 84 Resp: 1716
Ion Ratio Lower Upper
84 100
56 0.0 113.4 170.2#
41 451.0 68.2 102.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1373
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 114 Resp: 1969067
Ion Ratio Lower Upper
114 100
63 29.1 22.9 34.3
88 19.5 15.8 23.6

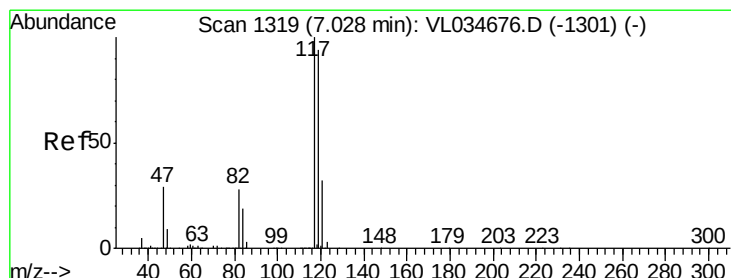
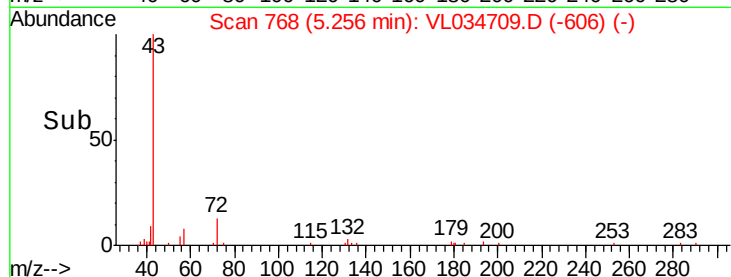
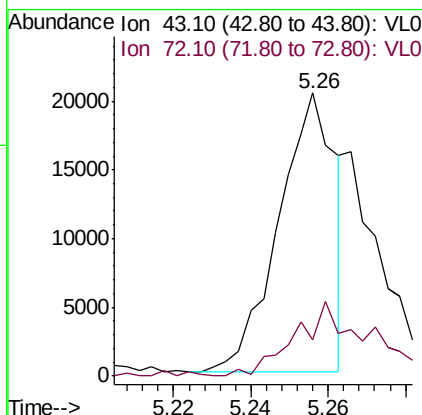
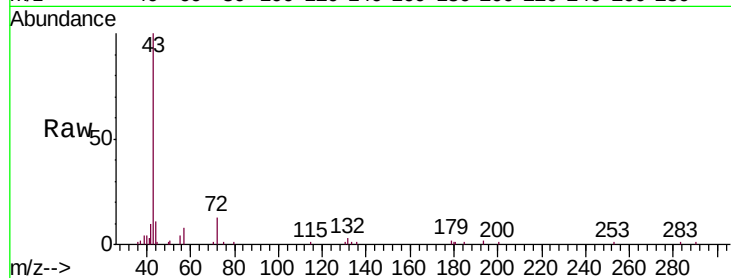




#34
2-Butanone
Concen: 0.167 ppbv
RT: 5.26 min Scan# 768
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

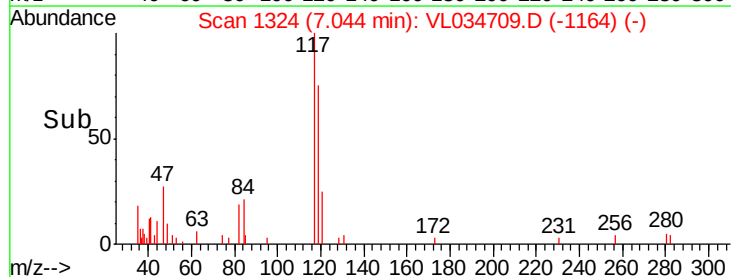
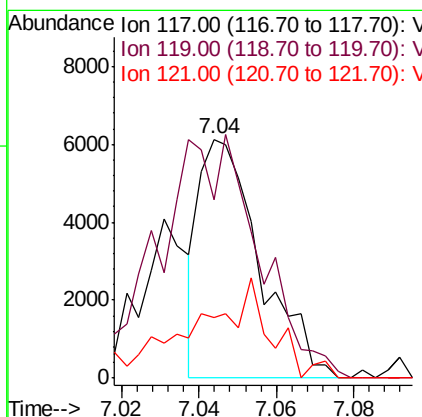
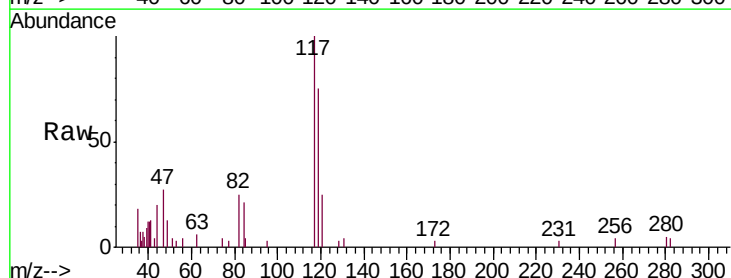
Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

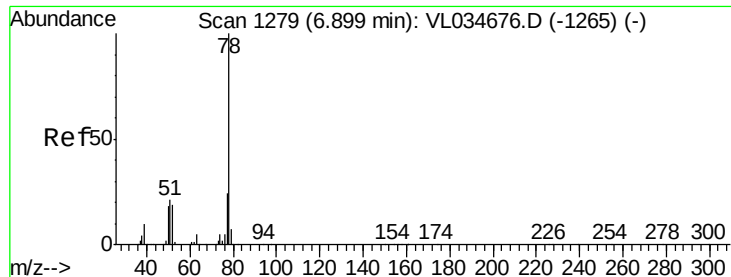
Tgt Ion: 43 Resp: 20684
Ion Ratio Lower Upper
43 100
72 35.0 18.2 27.2#



#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 7.04 min Scan# 1324
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 117 Resp: 6679
Ion Ratio Lower Upper
117 100
119 72.0 75.5 113.3#
121 25.3 25.4 38.0#





#36

Benzene

Concen: 0.299 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

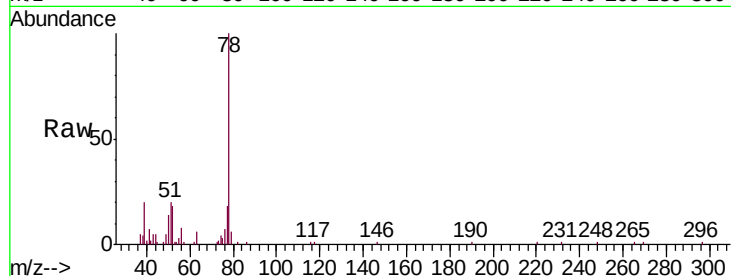
Tgt Ion: 78 Resp: 50895

Ion Ratio Lower Upper

78 100

77 17.6 19.5 29.3#

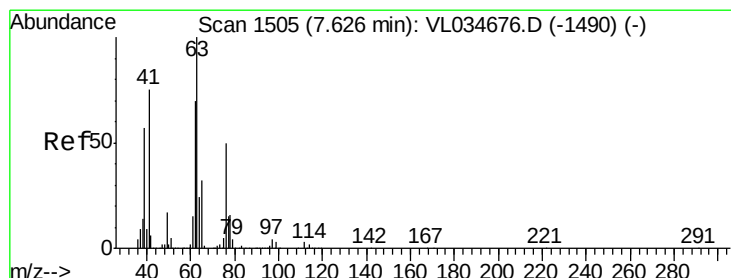
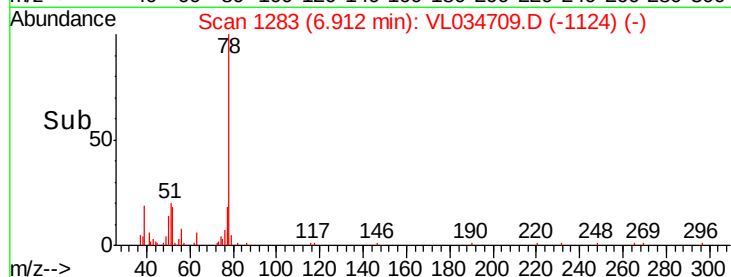
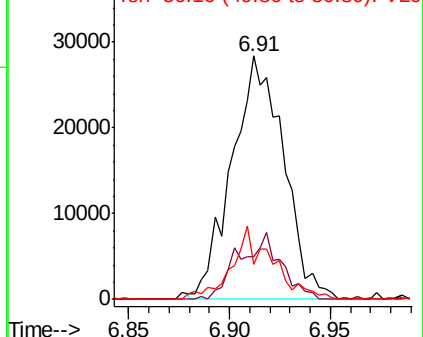
50 14.1 14.6 21.8#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.456 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.43 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

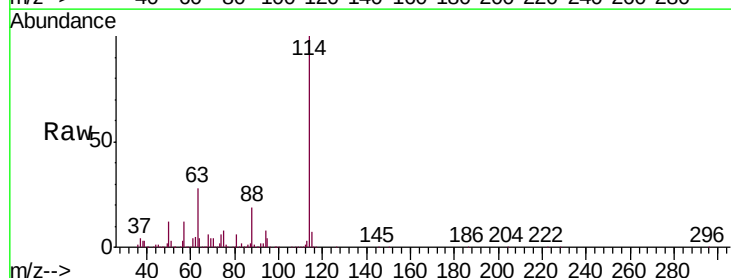
Tgt Ion: 63 Resp: 572123

Ion Ratio Lower Upper

63 100

41 0.0 60.2 90.4#

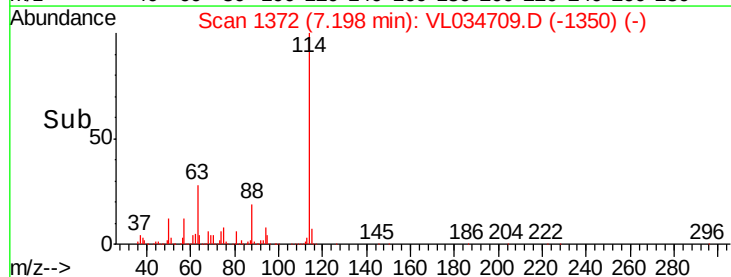
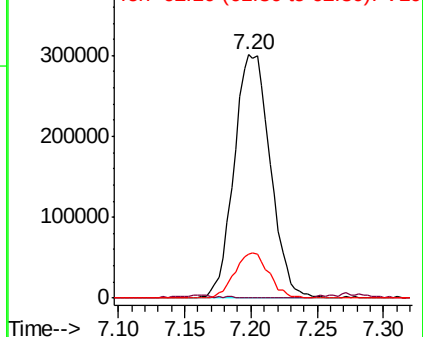
62 18.0 56.3 84.5#

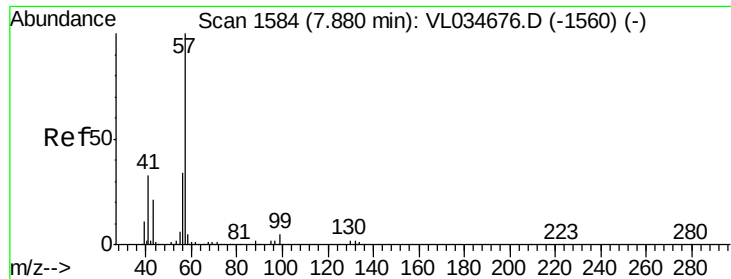


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

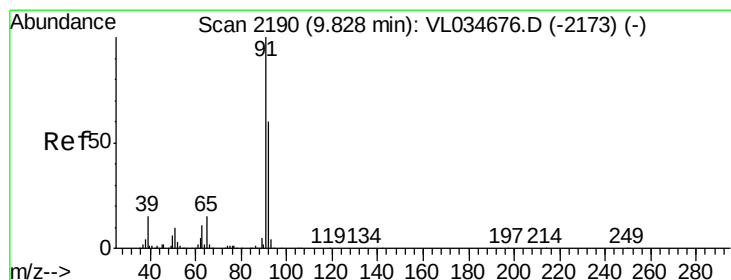
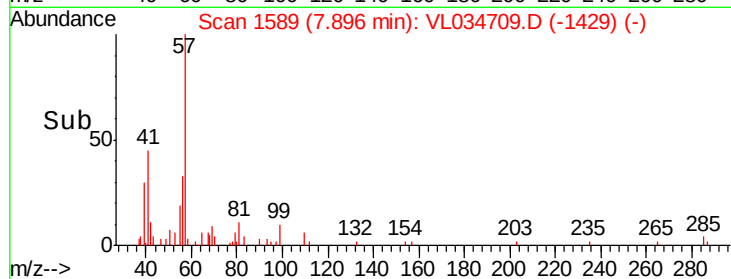
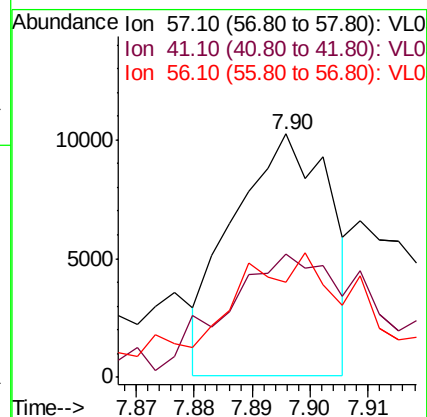
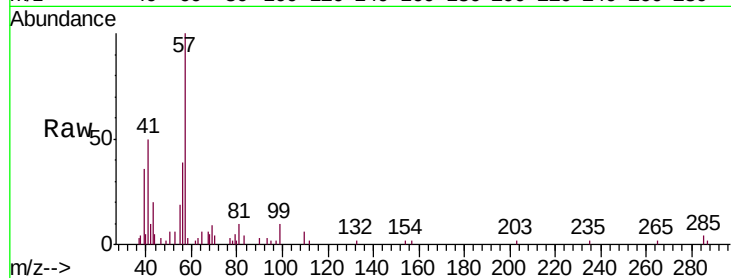




#44
 2,2,4-Trimethylpentane
 Concen: 0.040 ppbv
 RT: 7.90 min Scan# 1589
 Delta R.T. 0.02 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

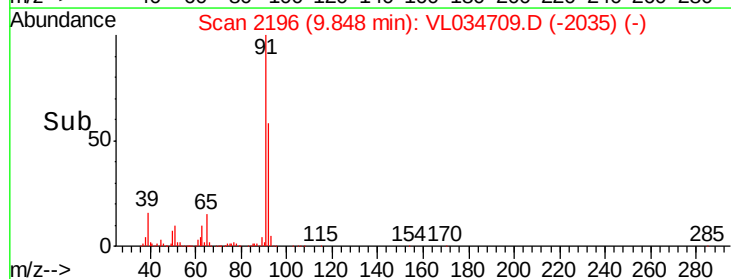
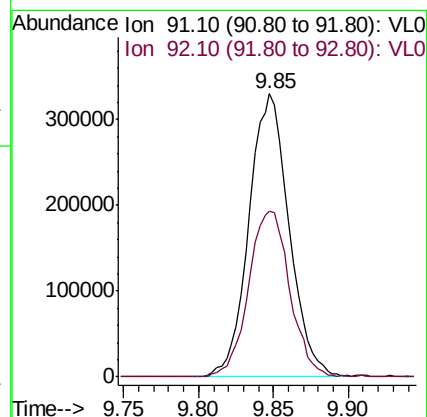
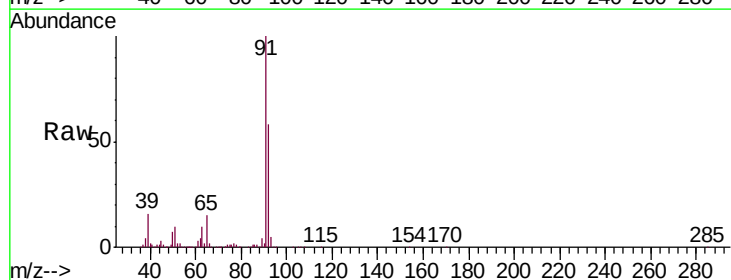
Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOM

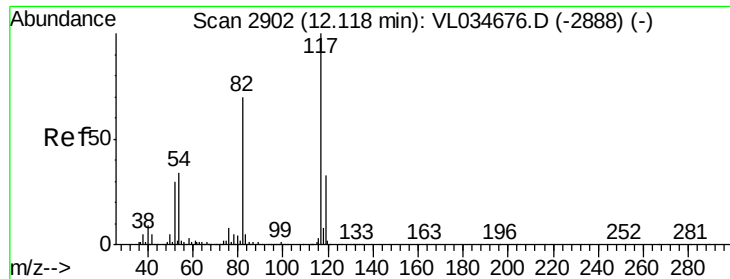
Tgt Ion: 57 Resp: 11874
 Ion Ratio Lower Upper
 57 100
 41 112.6 26.0 39.0#
 56 86.3 25.6 38.4#



#53
 Toluene
 Concen: 3.404 ppbv
 RT: 9.85 min Scan# 2196
 Delta R.T. 0.02 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

Tgt Ion: 91 Resp: 615748
 Ion Ratio Lower Upper
 91 100
 92 60.5 48.5 72.7

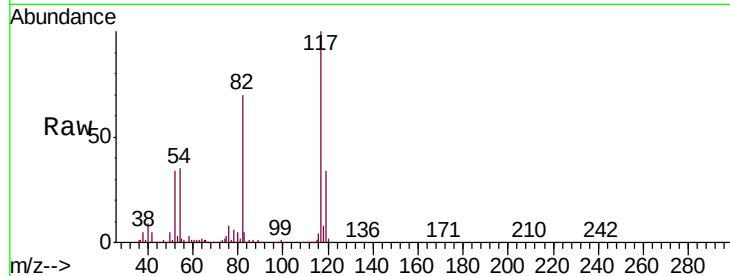




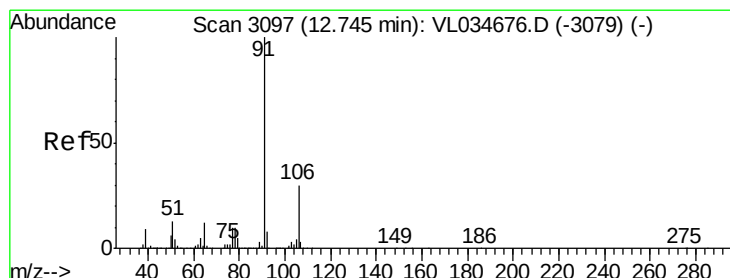
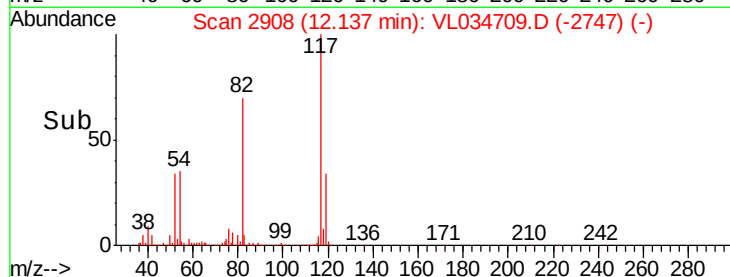
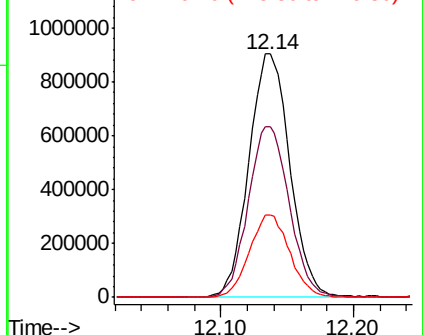
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

Tgt Ion:117 Resp: 1948663
Ion Ratio Lower Upper
117 100
82 70.5 54.1 81.1
119 33.3 27.6 41.4

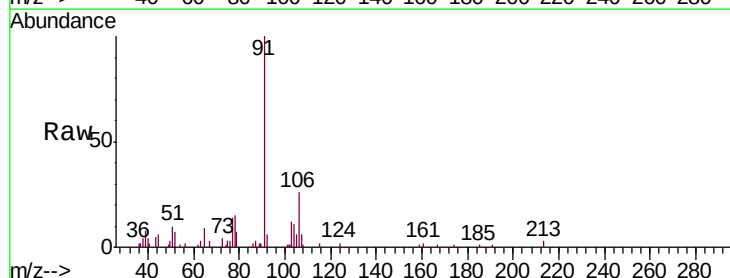


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

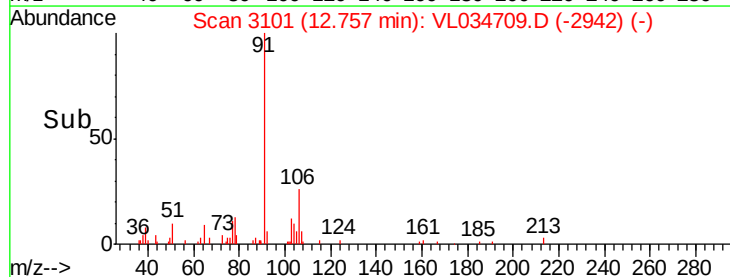
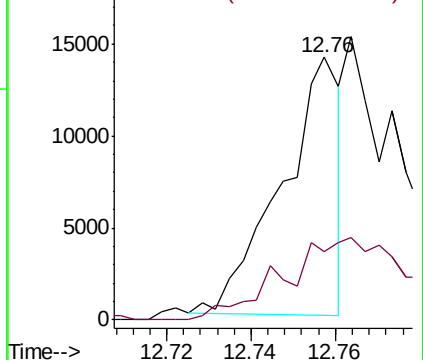


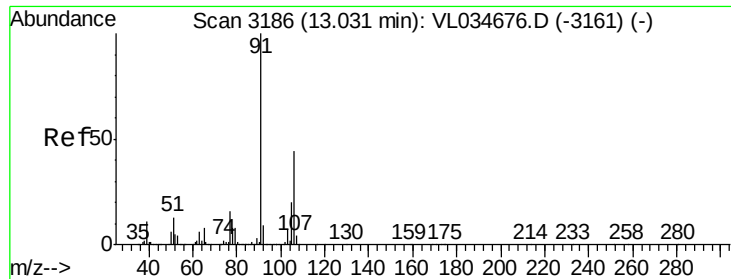
#58
Ethyl Benzene
Concen: 0.057 ppbv
RT: 12.76 min Scan# 3101
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 91 Resp: 13533
Ion Ratio Lower Upper
91 100
106 26.7 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

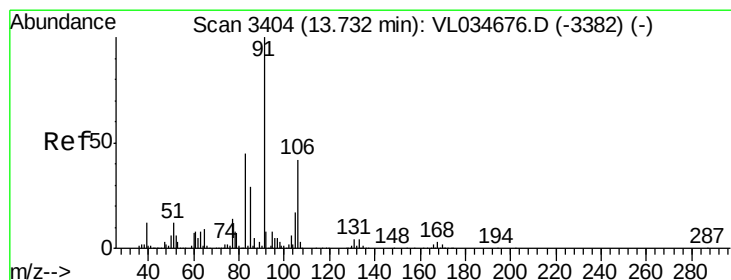
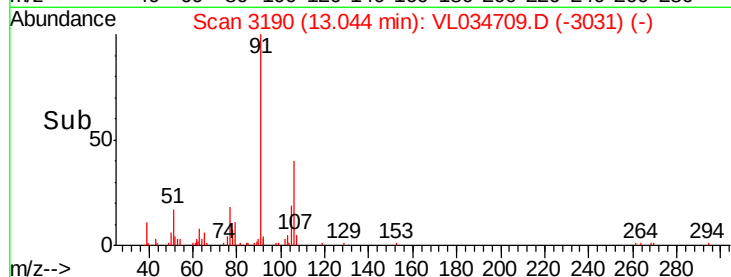
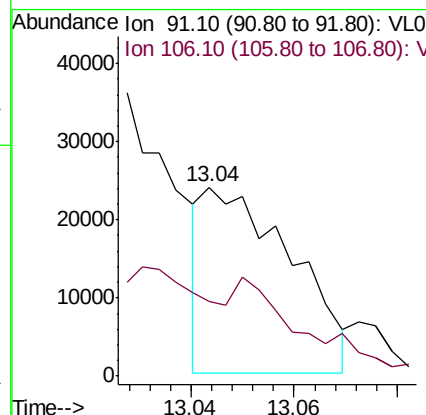
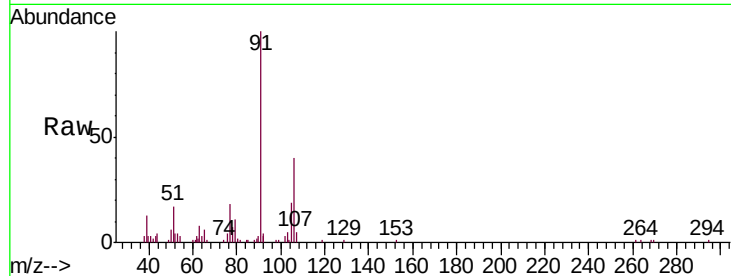




#59
m/p-Xylene
Concen: 0.137 ppbv
RT: 13.04 min Scan# 3190
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

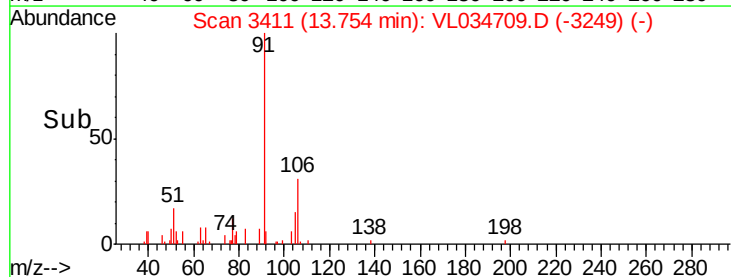
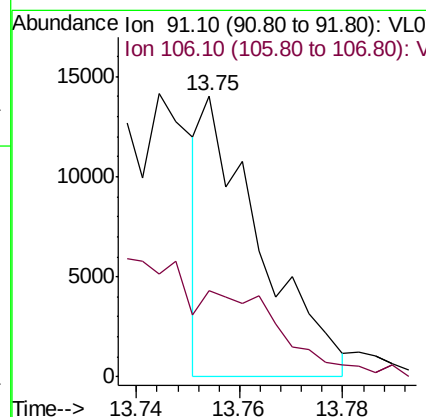
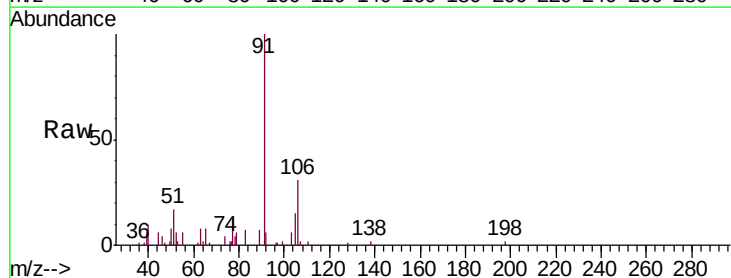
Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

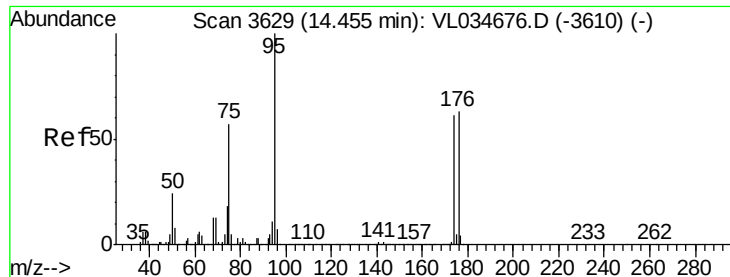
Tgt Ion: 91 Resp: 28237
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#



#60
o-Xylene
Concen: 0.053 ppbv
RT: 13.75 min Scan# 3411
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 91 Resp: 10813
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.339 ppbv

RT: 14.47 min Scan# 3634

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

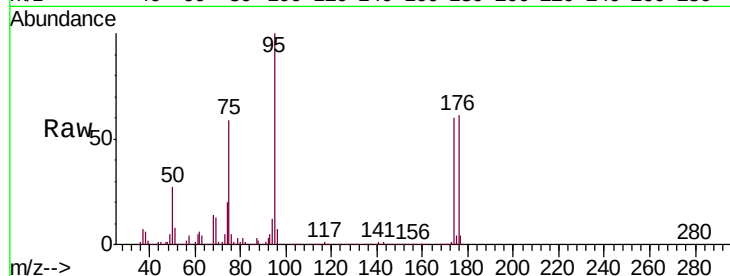
Tgt Ion: 95 Resp: 1652058

Ion Ratio Lower Upper

95 100

174 62.3 50.7 76.1

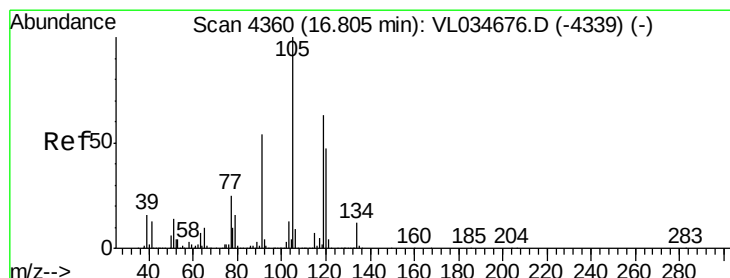
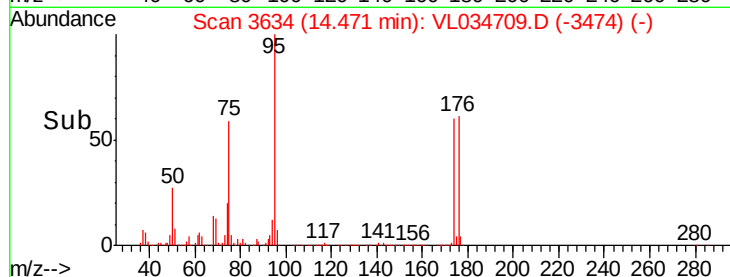
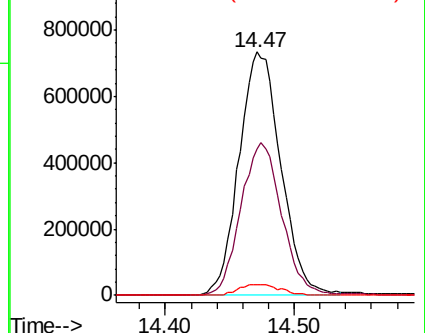
175 4.6 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#74

1,2,4-Trimethylbenzene

Concen: 0.023 ppbv

RT: 16.83 min Scan# 4367

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Tgt Ion: 105 Resp: 5654

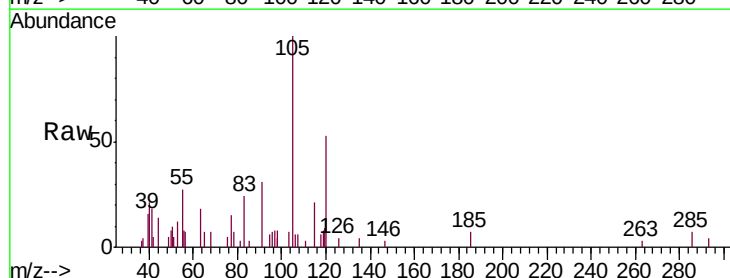
Ion Ratio Lower Upper

105 100

120 79.5 37.9 56.9#

91 30.2 43.9 65.9#

77 22.2 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

