

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040521\
 Data File : VL036698.D
 Acq On : 6 Apr 2021 11:09
 Operator : SY/AP
 Sample : M1834-05DL2 120X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL2

Manual Integrations
 APPROVED

MMDadoda
 4/6/2021 5:14:52 PM

Quant Time: Apr 06 11:52:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1236755	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3134794	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2845009	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2231578	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	45768	0.621	ppbv	89
10) Heptane	8.12	43	208942	1.113	ppbv #	28
26) Hexane	5.69	57	294022	2.189	ppbv #	45
30) Cyclohexane	7.13	84	88717m	0.815	ppbv	
34) 2-Butanone	5.25	43	874686	5.716	ppbv	96
36) Benzene	6.89	78	168378	0.582	ppbv #	89
44) 2,2,4-Trimethylpentane	7.87	57	5521034	10.850	ppbv	97
53) Toluene	9.81	91	136638	0.444	ppbv	97
58) Ethyl Benzene	12.71	91	130143	0.314	ppbv	98
59) m/p-Xylene	12.97	91	158392m	0.439	ppbv	

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

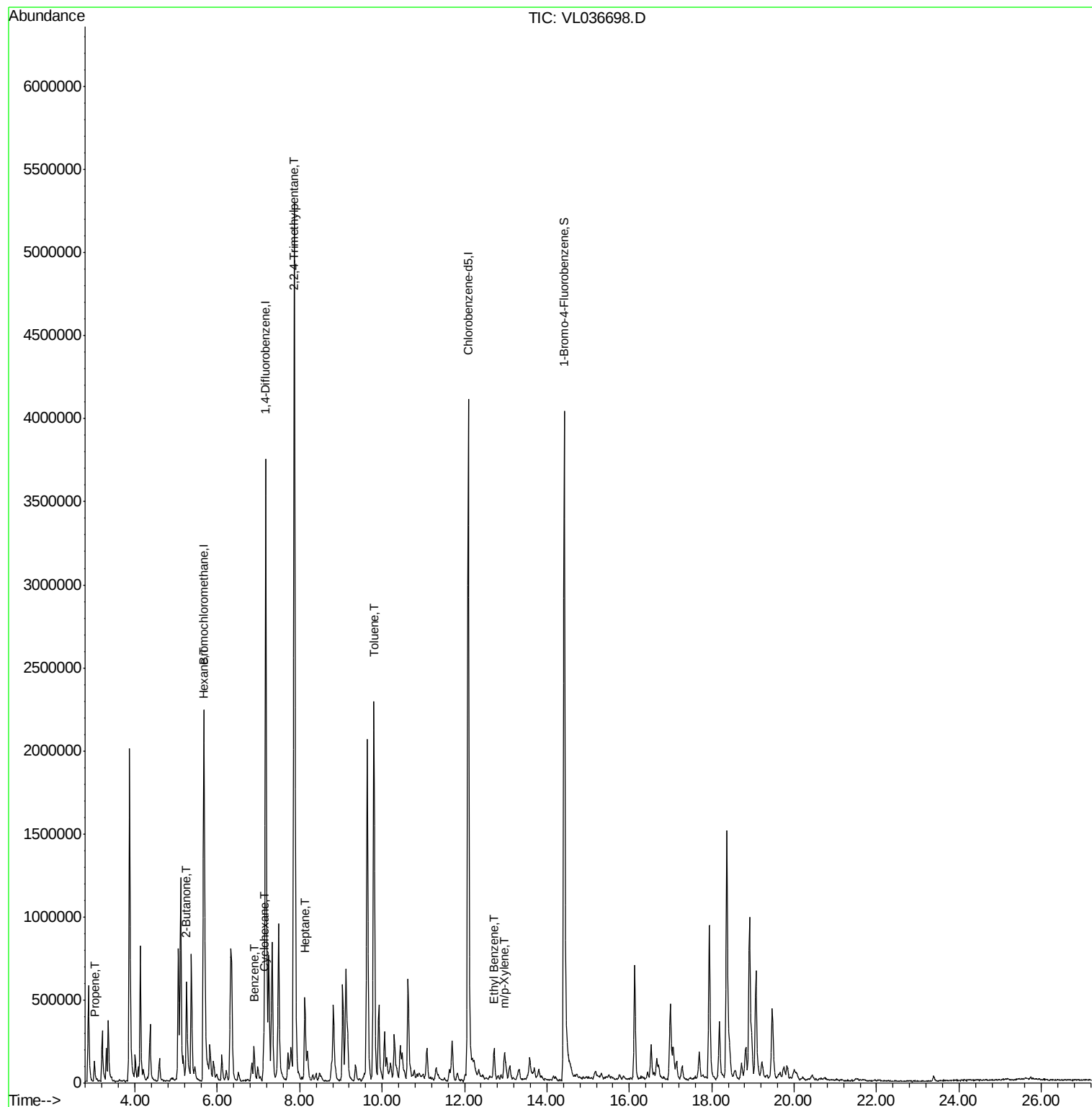
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040521\
Data File : VL036698.D
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampled :

SV5DL2

Tot Ion: 49 Resp: 1236755

Ion Ratio Lower Upper

49 100

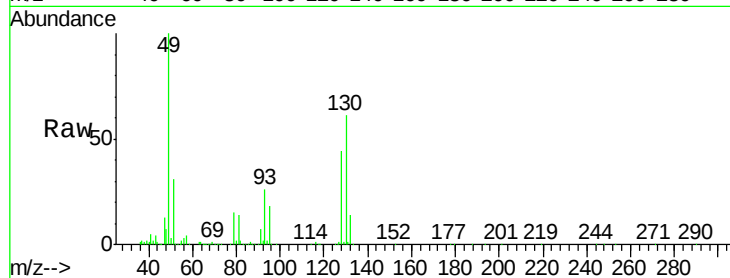
128 47.7 23.5 70.6

130 61.4 29.1 87.4

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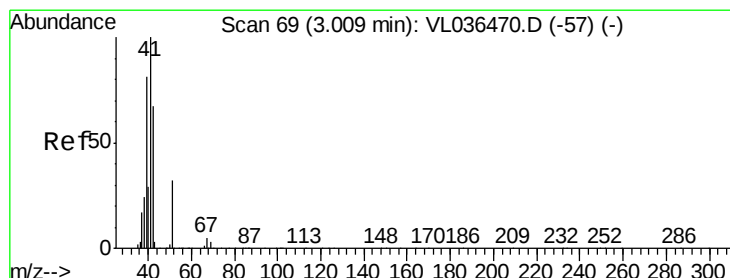
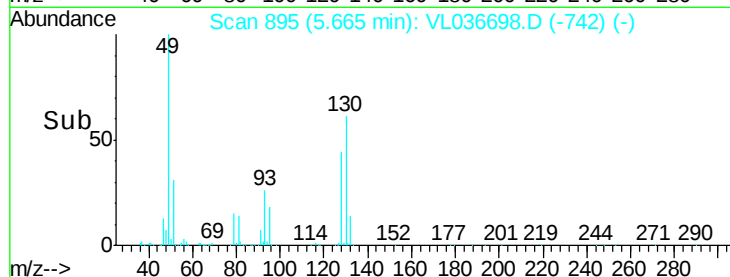
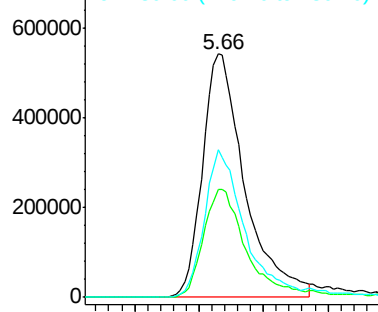
4/6/2021 5:14:52 PM



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



#9

Propene

Concen: 0.621 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036698.D

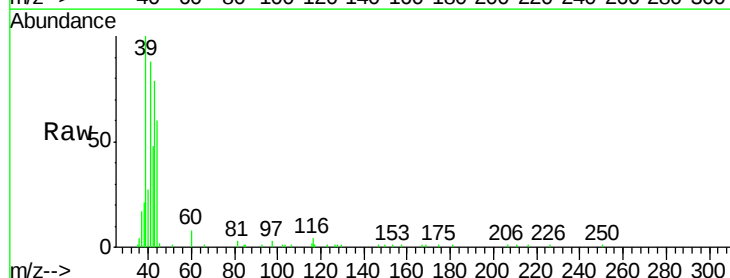
Acq: 6 Apr 2021 11:09

Tgt Ion: 41 Resp: 45768

Ion Ratio Lower Upper

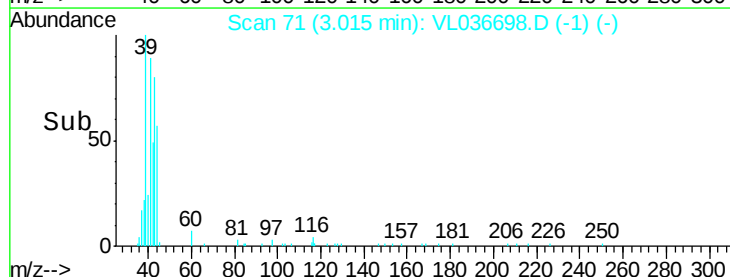
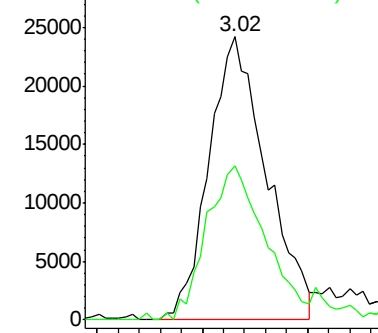
41 100

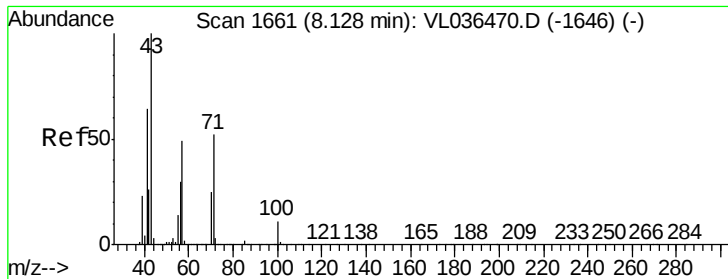
42 61.9 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





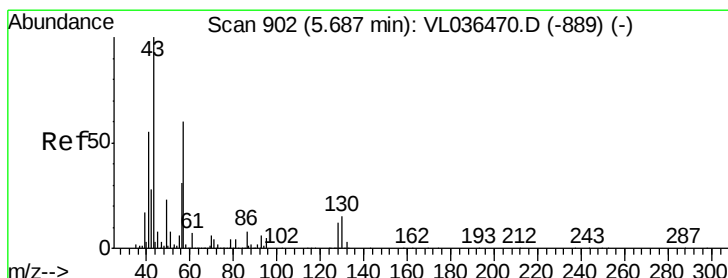
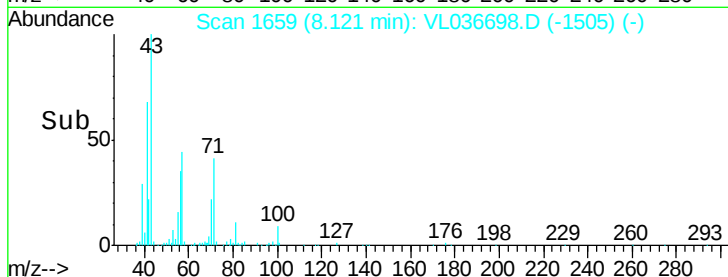
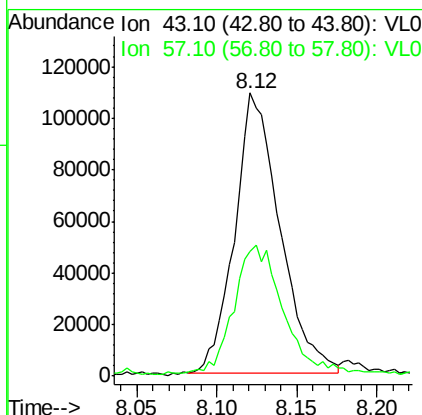
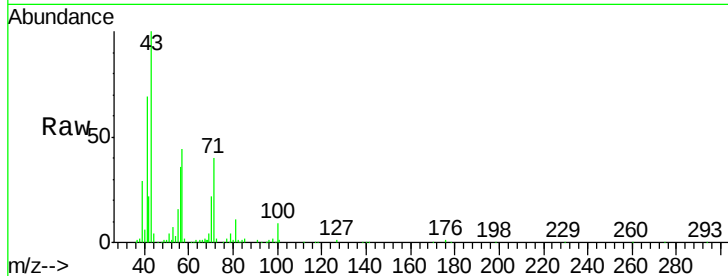
#10
Heptane
Concen: 1.113 ppbv
RT: 8.12 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Instrument :
MSVOA_L
ClientSampled :
SV5DL2

Tot Ion: 43 Resp: 208942
Ion Ratio Lower Upper
43 100
57 0.0 39.0 58.6#

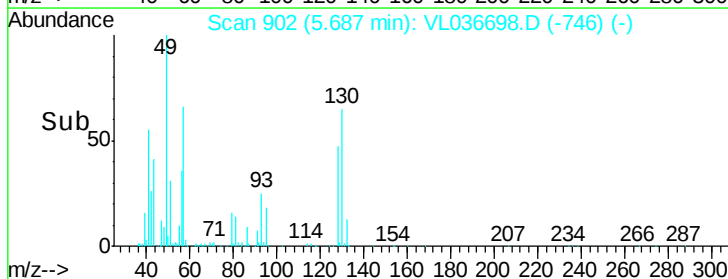
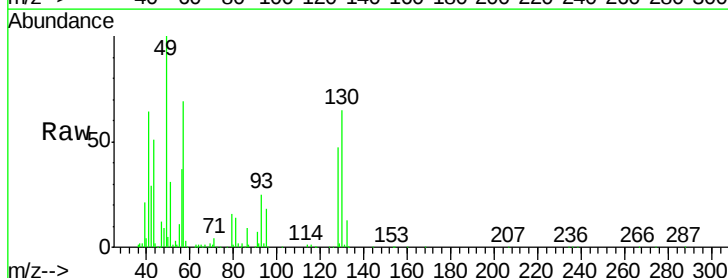
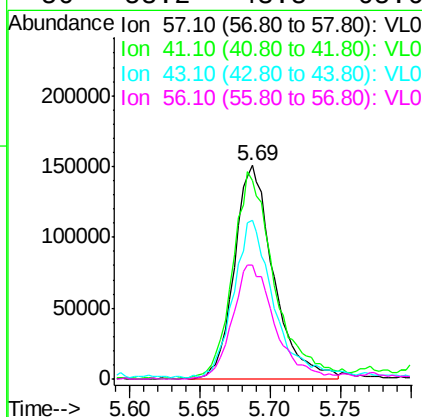
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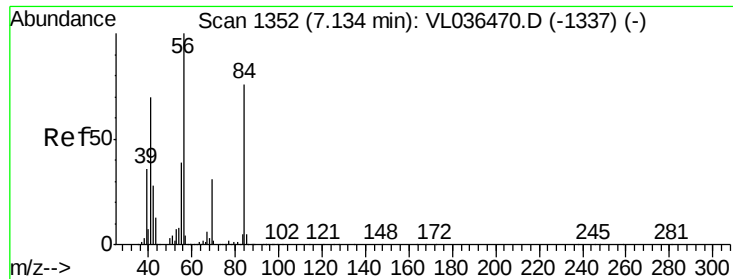
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#26
Hexane
Concen: 2.189 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Tgt Ion: 57 Resp: 294022
Ion Ratio Lower Upper
57 100
41 103.6 77.2 115.8
43 75.1 173.8 260.6#
56 58.2 43.8 65.6





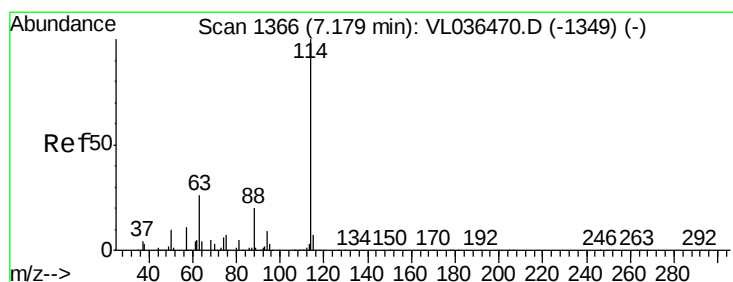
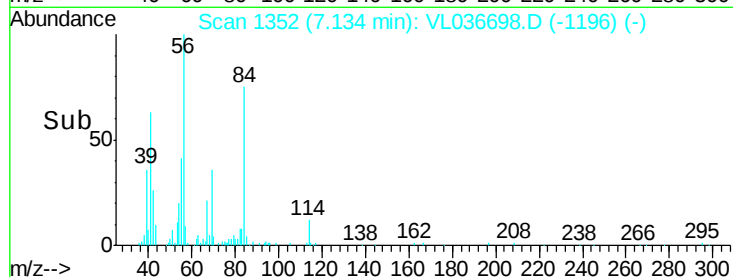
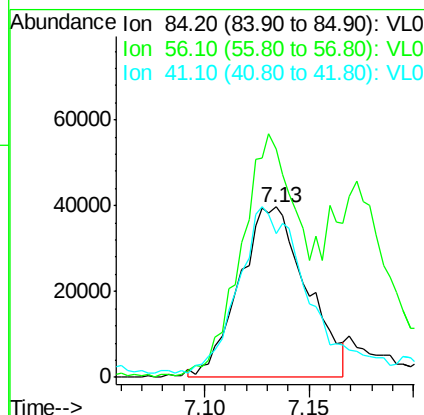
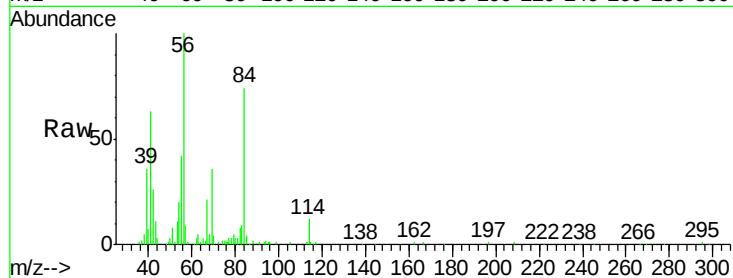
#30
Cyclohexane
Concen: 0.815 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. -0.00 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Instrument :
MSVOA_L
ClientSampled :
SV5DL2

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	97.6	75.3	112.9

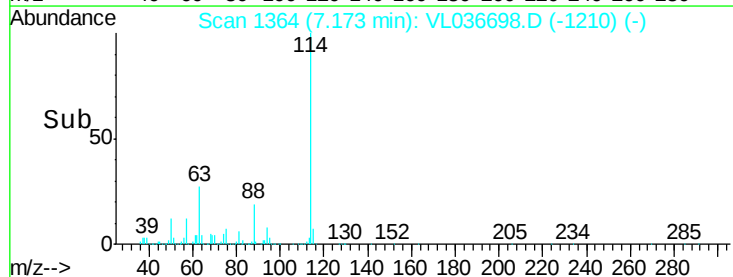
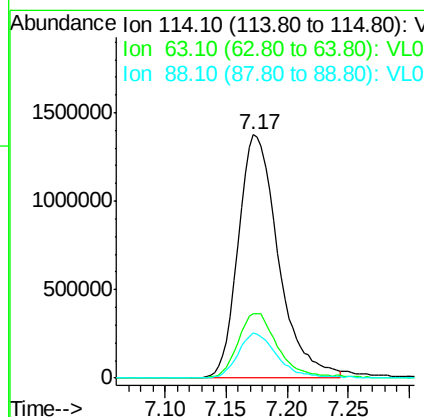
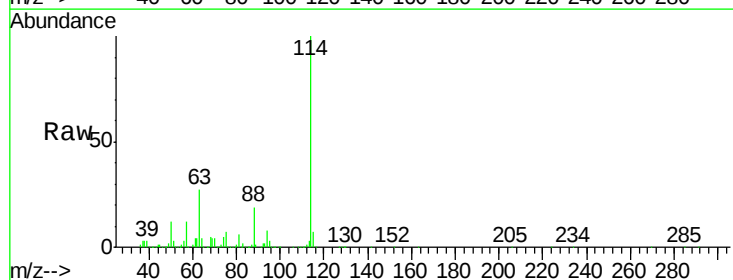
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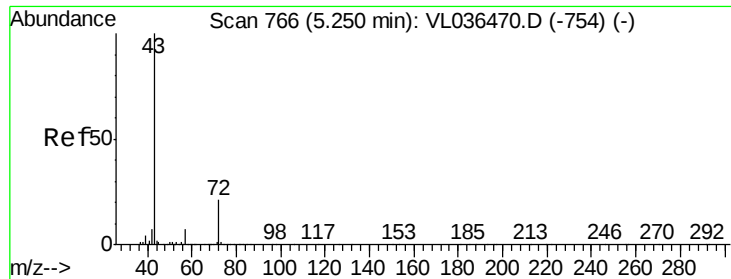
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.9	22.4	33.6
88	18.5	15.4	23.0





#34

2-Butanone

Concen: 5.716 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampleId :

SV5DL2

Tot Ion: 43 Resp: 874686

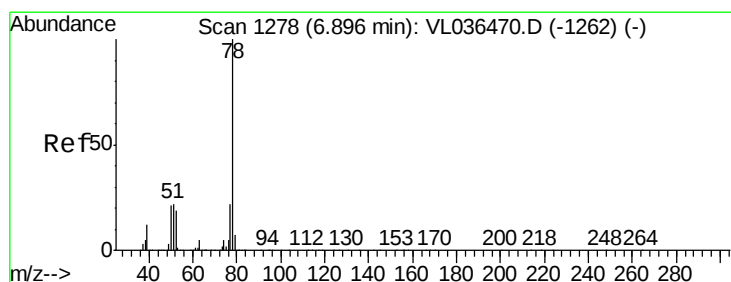
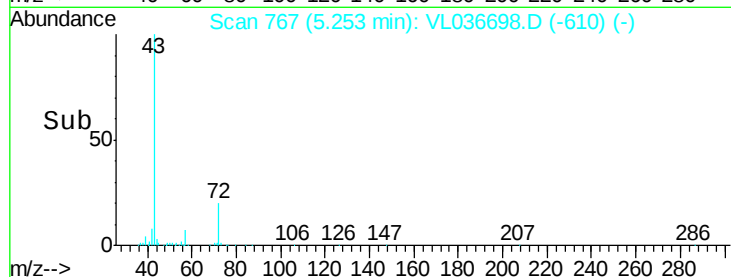
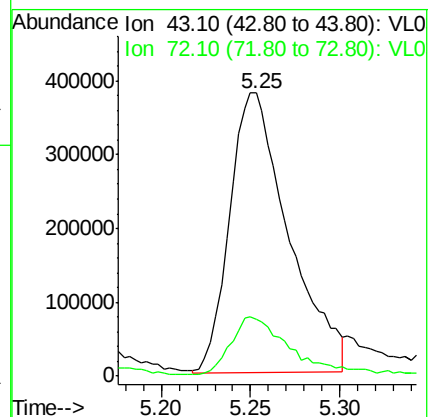
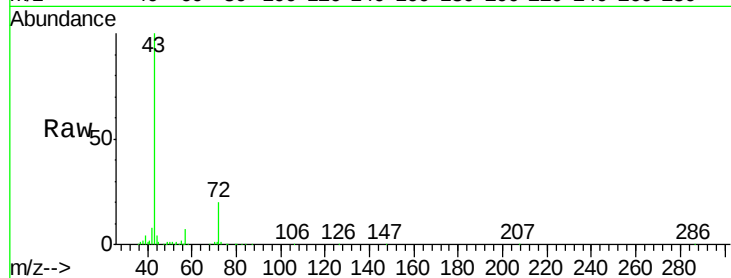
Ion Ratio Lower Upper

43 100

72 23.0 17.0 25.6

Manual Integrations
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#36

Benzene

Concen: 0.582 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

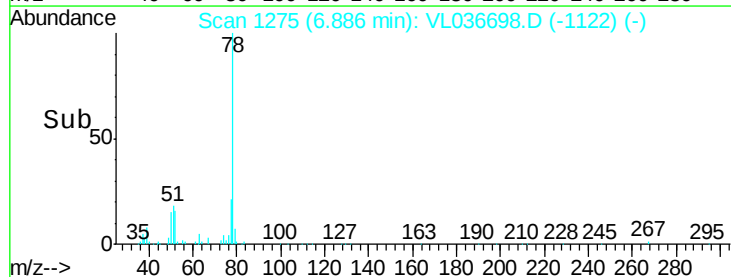
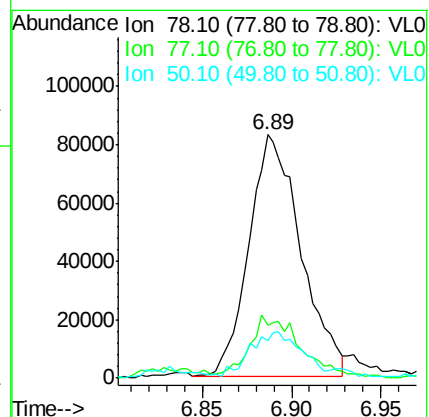
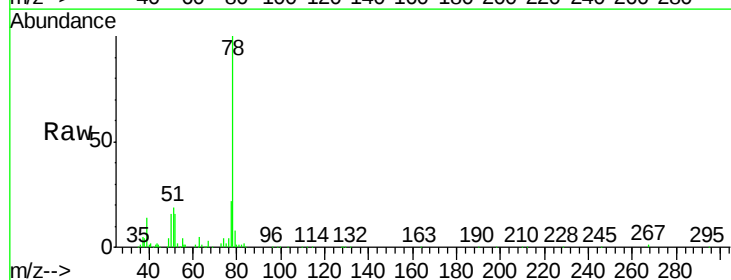
Tgt Ion: 78 Resp: 168378

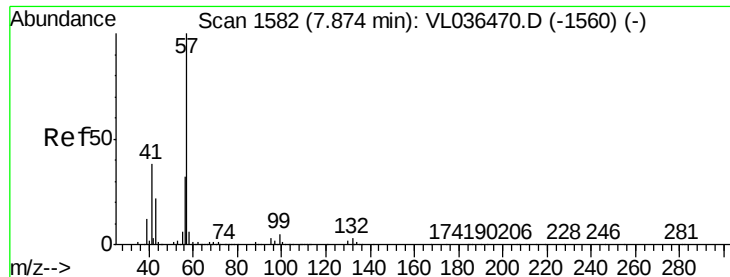
Ion Ratio Lower Upper

78 100

77 19.5 18.0 27.0

50 13.3 16.5 24.7#





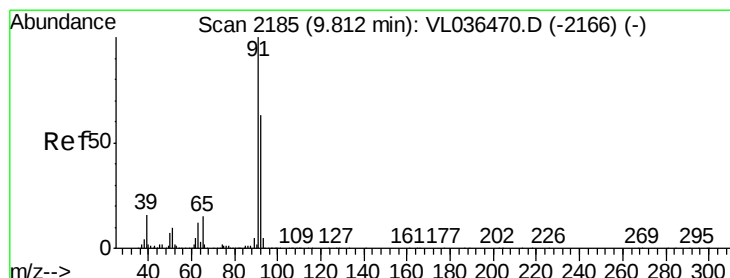
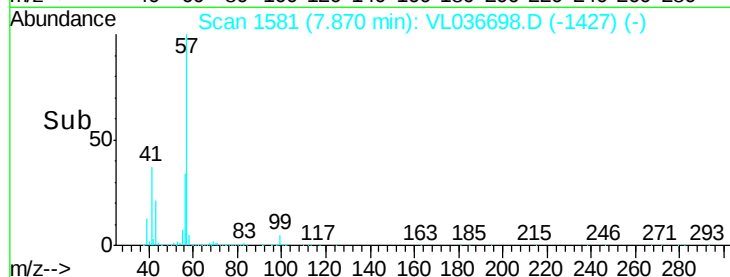
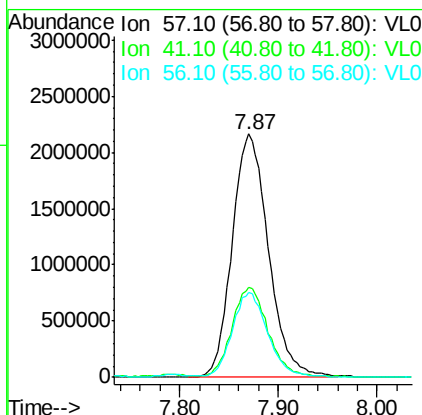
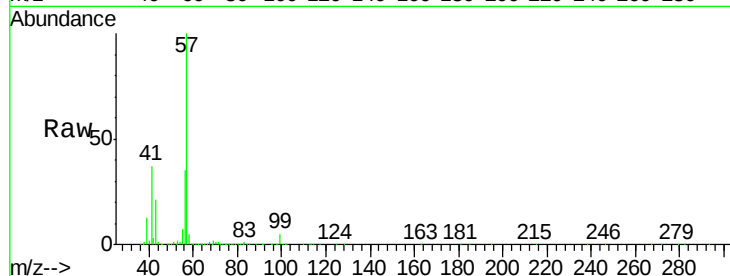
#44
 2,2,4-Trimethylpentane
 Concen: 10.850 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VL036698.D
 Acq: 6 Apr 2021 11:09

Instrument :
 MSVOA_L
 ClientSampled :
 SV5DL2

Tot Ion	Ratio	Lower	Upper
57	100		
41	37.3	28.8	43.2
56	34.3	26.1	39.1

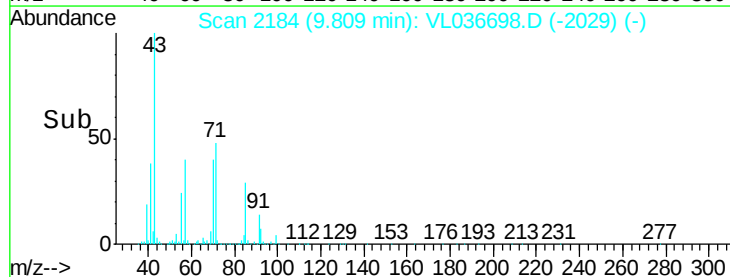
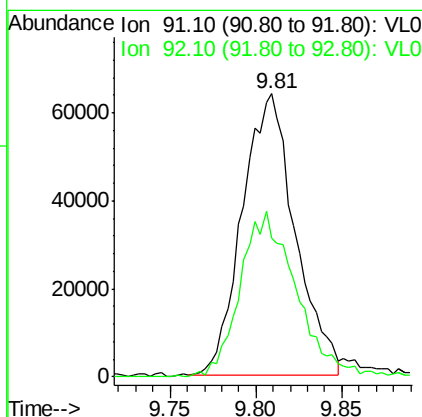
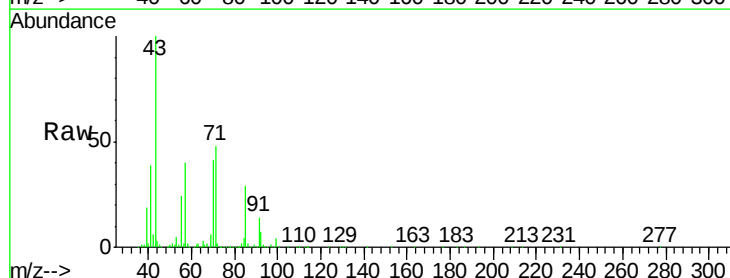
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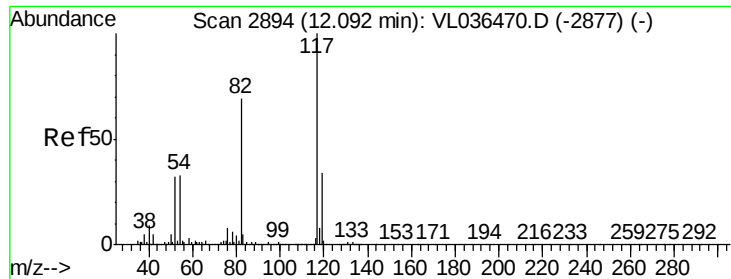
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#53
 Toluene
 Concen: 0.444 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. -0.00 min
 Lab File: VL036698.D
 Acq: 6 Apr 2021 11:09

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.0	48.8	73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036698.D

Acq: 6 Apr 2021 11:09

Instrument :

MSVOA_L

ClientSampled :

SV5DL2

Tot Ion:117 Resp: 2845009

Ion Ratio Lower Upper

117 100

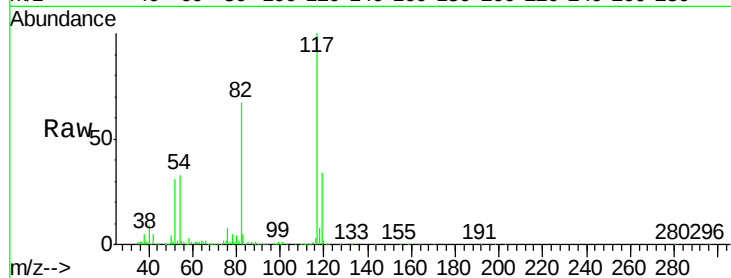
82 68.0 57.4 86.0

119 33.6 47.4 71.0#

Manual Integrations
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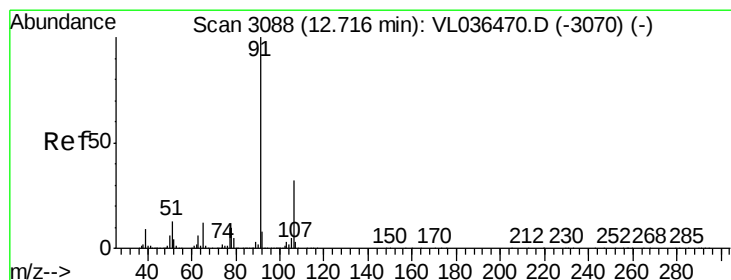
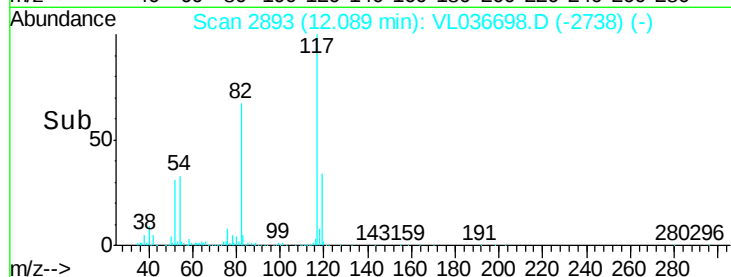
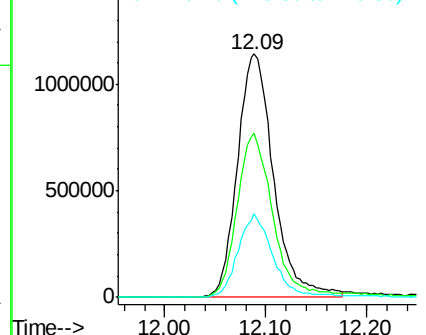
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.314 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL036698.D

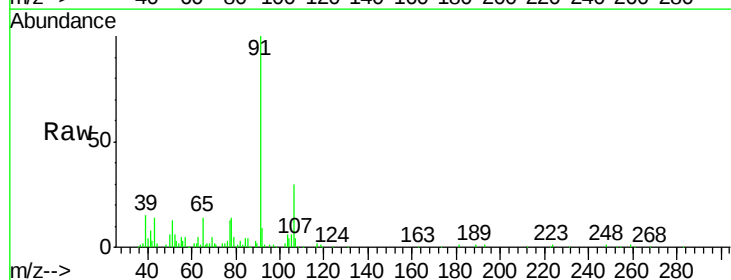
Acq: 6 Apr 2021 11:09

Tgt Ion: 91 Resp: 130143

Ion Ratio Lower Upper

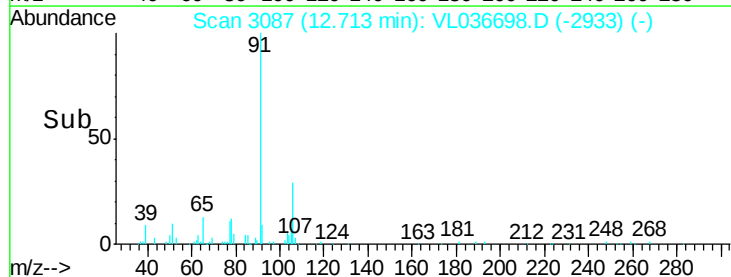
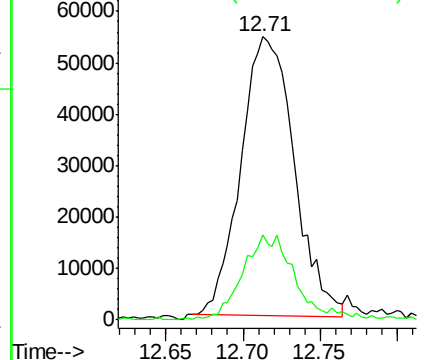
91 100

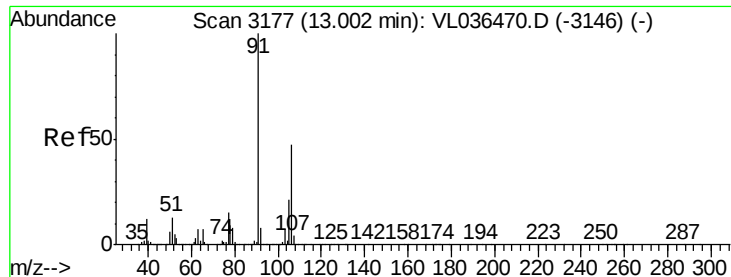
106 30.4 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





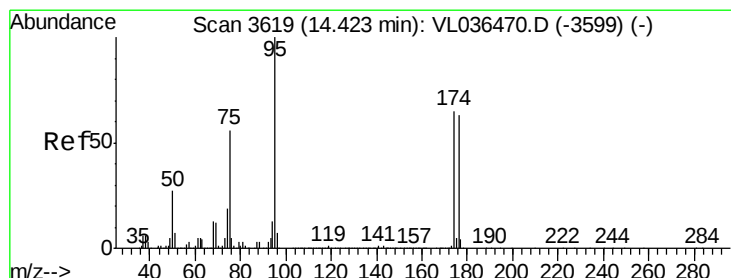
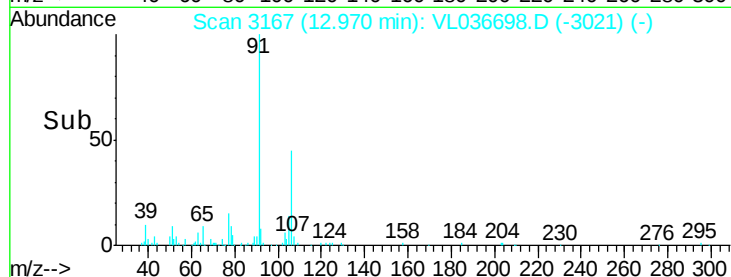
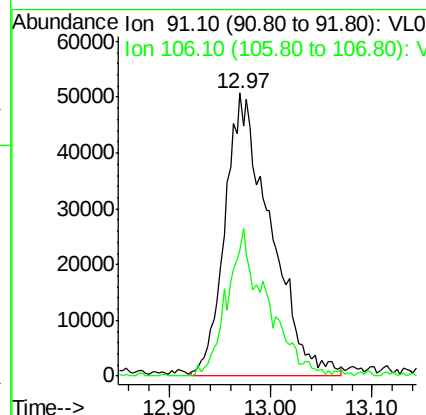
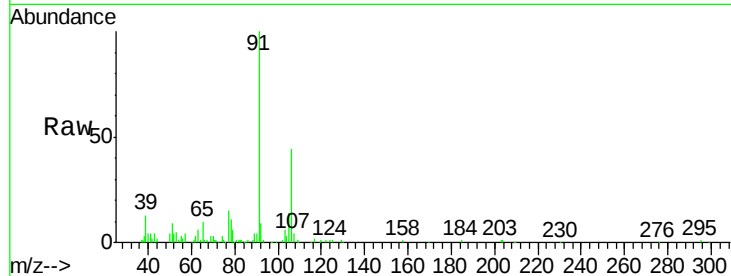
#59
m/p-Xylene
Concen: 0.439 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Instrument :
MSVOA_L
ClientSampled :
SV5DL2

Tot Ion: 91 Resp: 158392
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.842 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036698.D
Acq: 6 Apr 2021 11:09

Tgt Ion: 95 Resp: 2231578
Ion Ratio Lower Upper
95 100
174 63.3 51.0 76.6
175 4.6 3.9 5.9

