

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036116.D
 Acq On : 9 Dec 2020 4:50
 Operator : SY/AP
 Sample : L4948-12 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1B

Manual Integrations
 APPROVED

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 12/11/2020 12:24:07 PM

Quant Time: Dec 09 09:03:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1149994	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.18	114	2347597	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2132419	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1796208	10.61	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	11296m	0.172	ppbv	
13) Ethanol	3.61	45	188903m	20.848	ppbv	
15) Acetone	3.86	43	121516	0.879	ppbv #	83
19) Isopropyl Alcohol	3.99	45	23286m	0.276	ppbv	
20) Methylene Chloride	4.35	84	17905m	0.316	ppbv	
26) Hexane	5.70	57	13314m	0.107	ppbv	
34) 2-Butanone	5.26	43	48701m	0.313	ppbv	
36) Benzene	6.90	78	206354	1.037	ppbv #	93
52) Tetrachloroethene	11.24	164	13564m	0.188	ppbv	
62) Isopropylbenzene	14.69	105	147133m	0.428	ppbv	

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

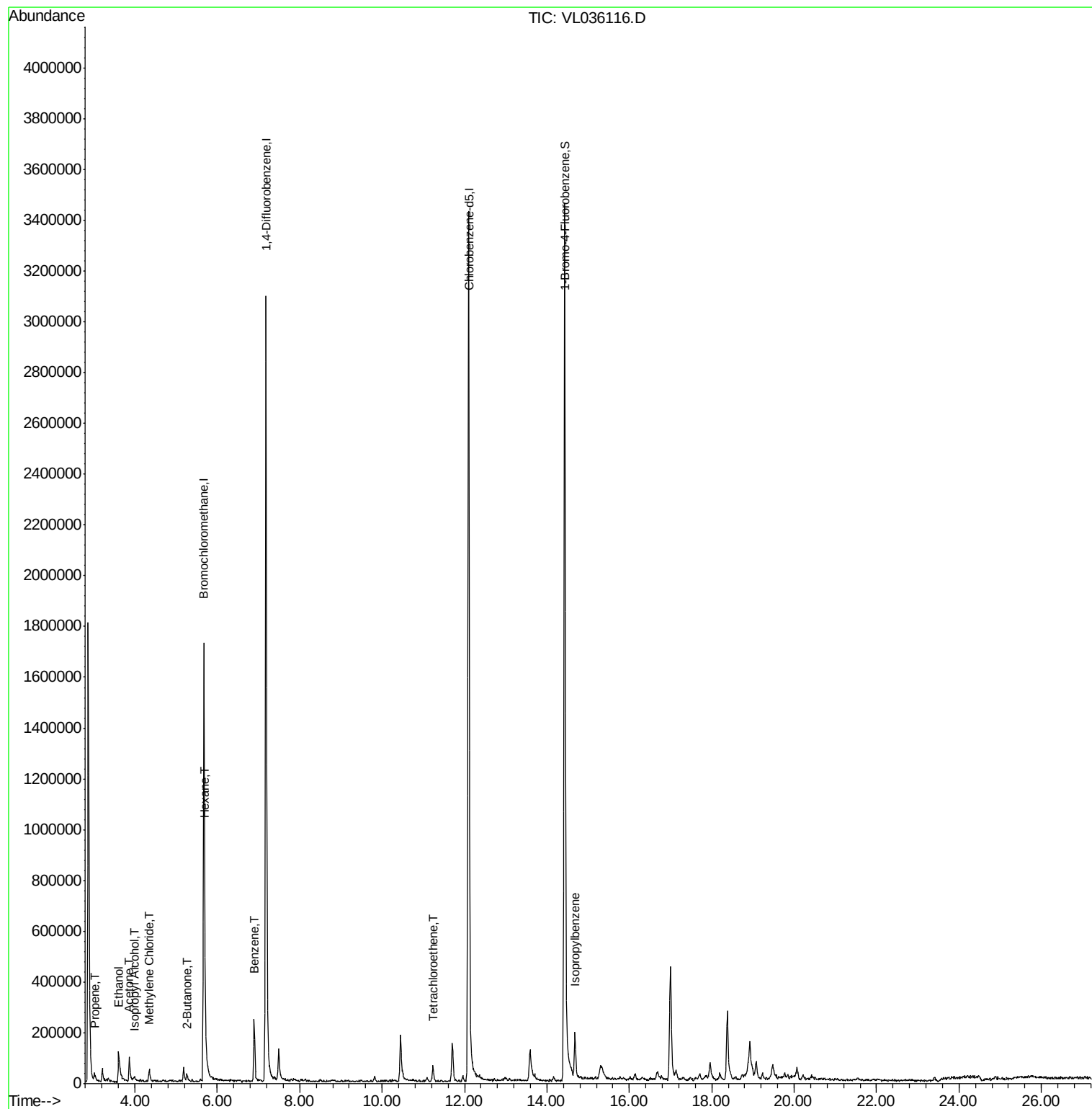
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120820\
Data File : VL036116.D
Acq On : 9 Dec 2020 4:50
Operator : SY/AP
Sample : L4948-12 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

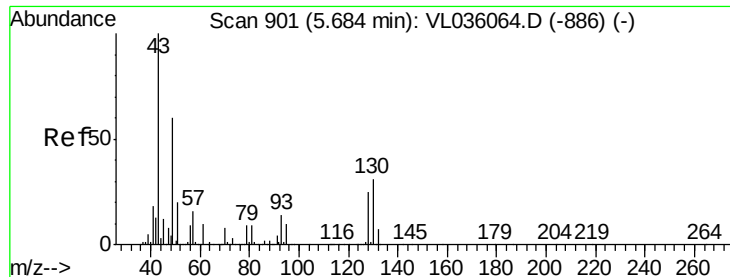
Instrument :
MSVOA_L
ClientSampleId :
SS-1B

Manual Integrations
APPROVED

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12/11/2020 12:24:07 PM

Quant Time: Dec 09 09:03:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

ClientSampled :

SS-1B

Tot Ion: 49 Resp: 1149994

Ion Ratio Lower Upper

49 100

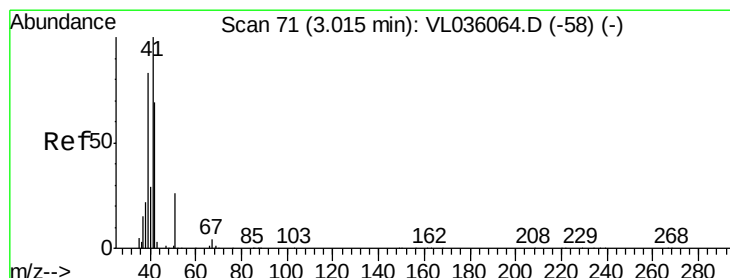
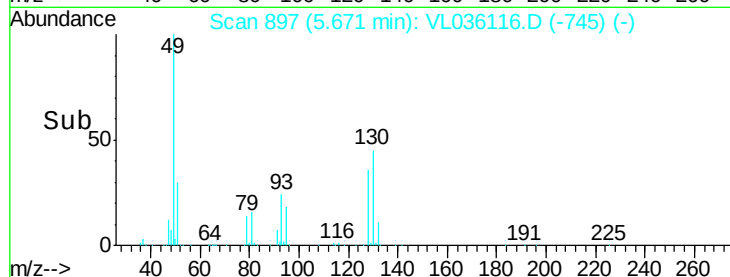
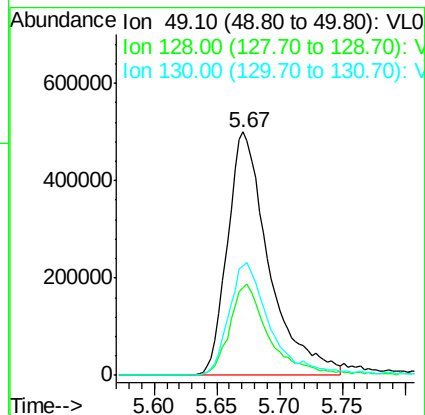
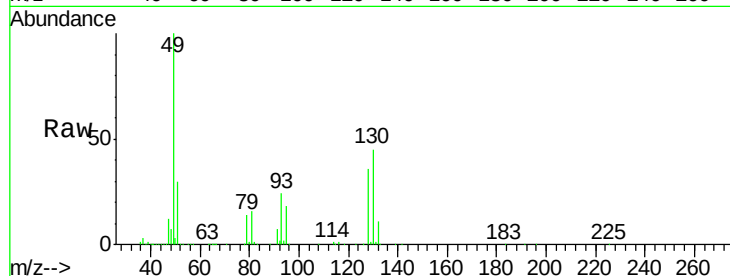
128 36.7 21.1 63.1

130 47.1 27.1 81.3

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#9

Propene

Concen: 0.172 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL036116.D

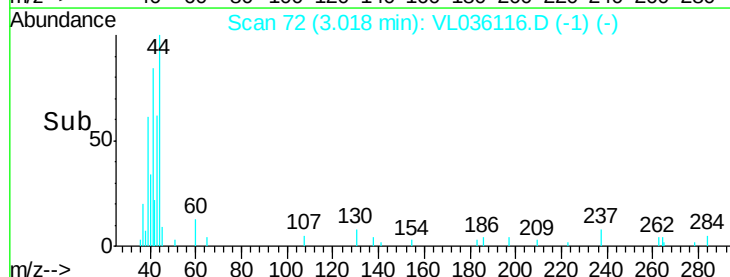
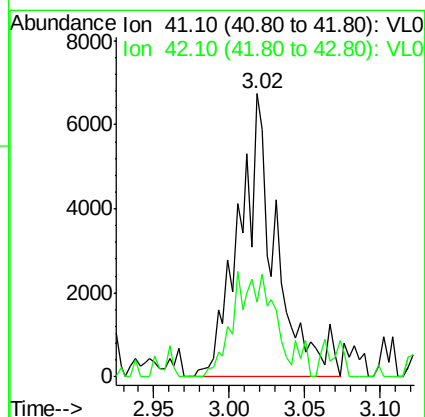
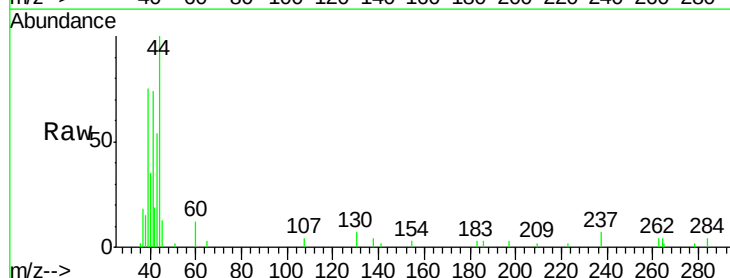
Acq: 9 Dec 2020 4:50

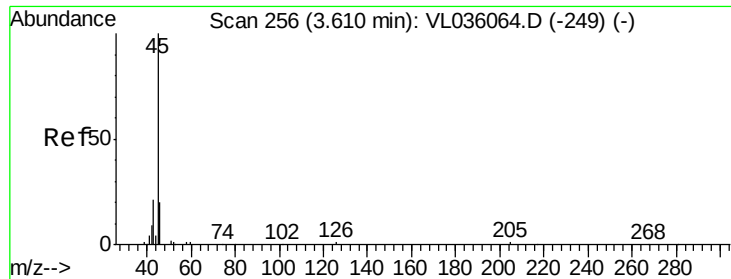
Tgt Ion: 41 Resp: 11296

Ion Ratio Lower Upper

41 100

42 7.6 57.0 85.6#





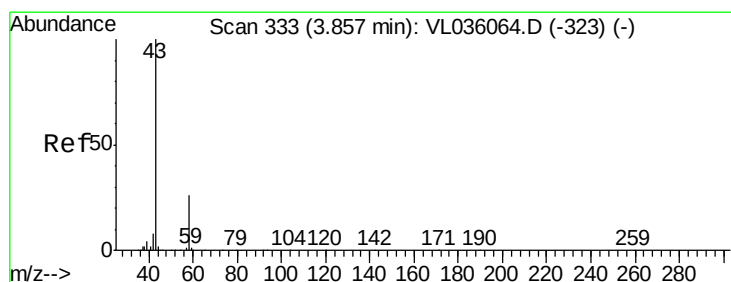
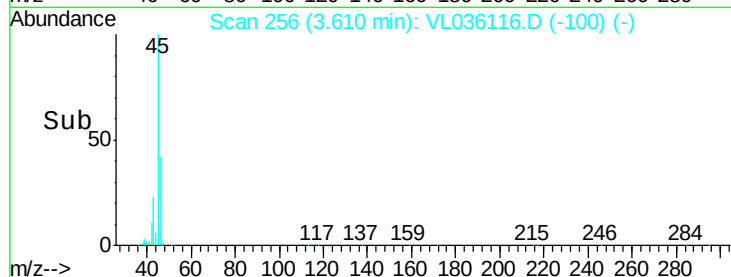
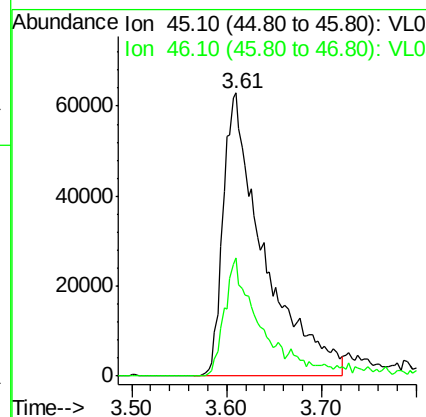
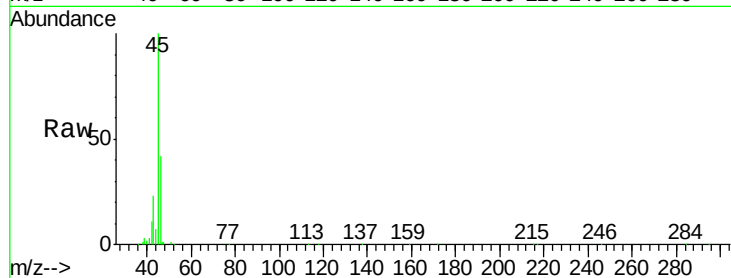
#13
Ethanol
Concen: 20.848 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036116.D
Acq: 9 Dec 2020 4:50

Instrument :
MSVOA_L
ClientSampled :
SS-1B

Tot Ion	45	46	Ratio	Lower	Upper
Resp:	188903				
Ion	100	37.2		19.0	75.8

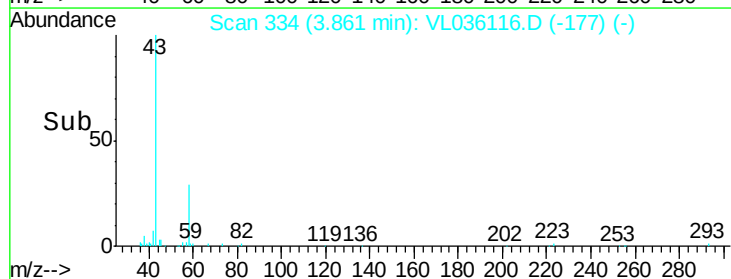
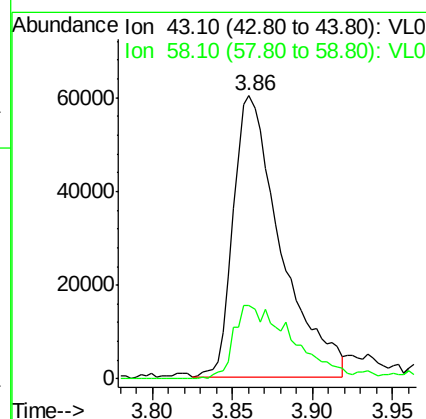
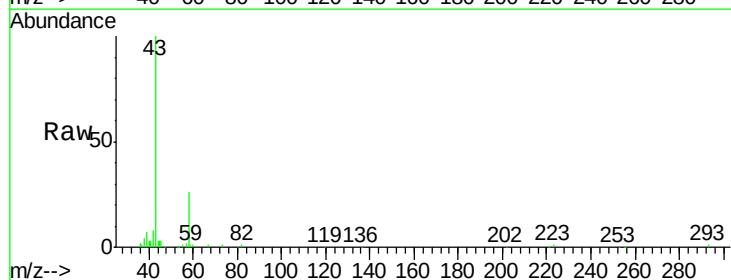
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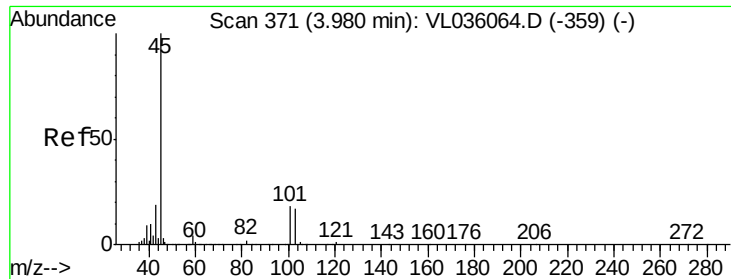
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#15
Acetone
Concen: 0.879 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.00 min
Lab File: VL036116.D
Acq: 9 Dec 2020 4:50

Tgt Ion	43	58	Ratio	Lower	Upper
Resp:	121516				
Ion	100	34.9		20.9	31.3#





#19

Isopropyl Alcohol

Concen: 0.276 ppbv m

RT: 3.99 min Scan# 375

Delta R.T. 0.01 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Tot Ion: 45 Resp: 23286

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0

Instrument :

MSVOA_L

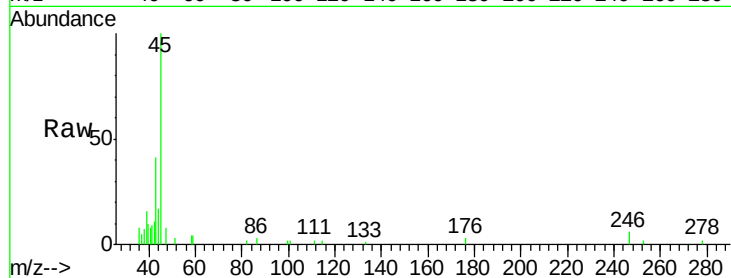
ClientSampleId :

SS-1B

Manual Integrations
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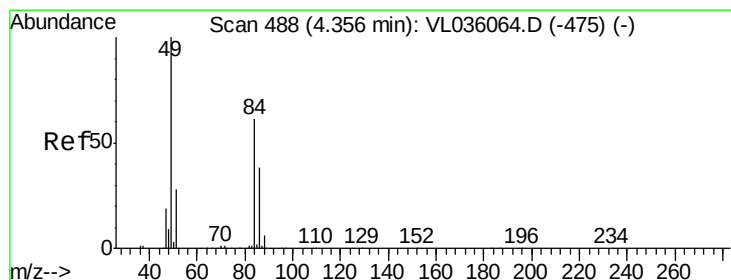
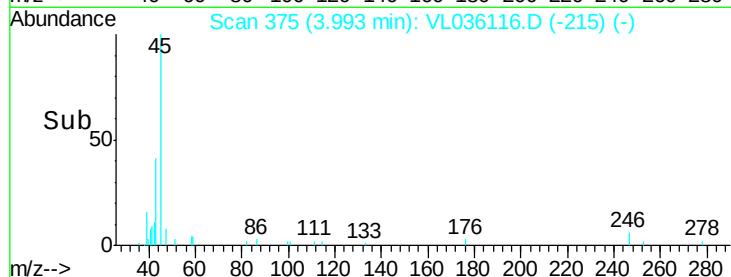
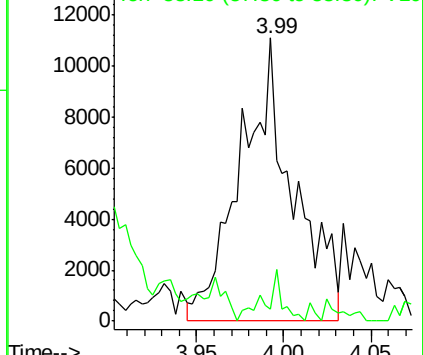
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.316 ppbv m

RT: 4.35 min Scan# 486

Delta R.T. -0.01 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Tgt Ion: 84 Resp: 17905

Ion Ratio Lower Upper

84 100

49 144.8 133.0 199.4

51 36.7 38.9 58.3#

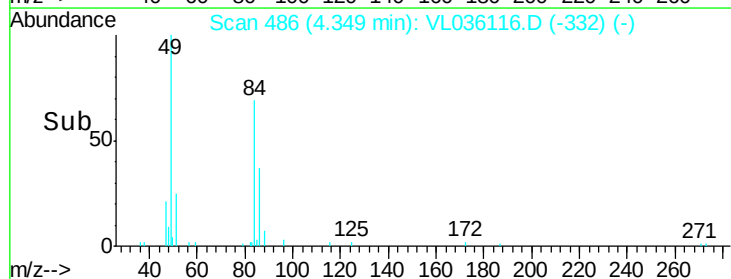
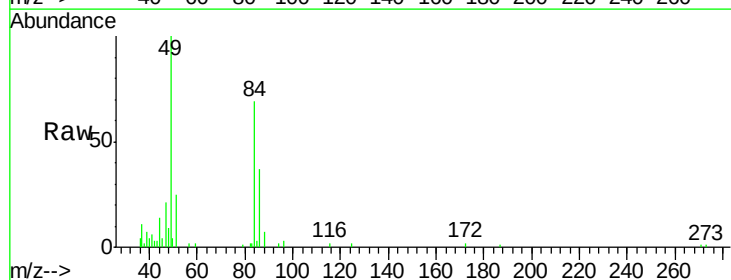
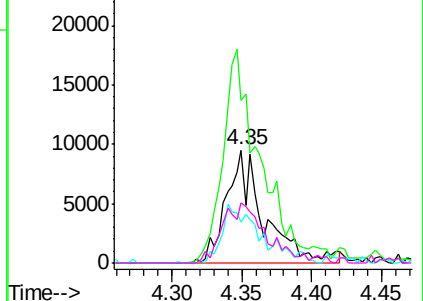
86 52.9 48.8 73.2

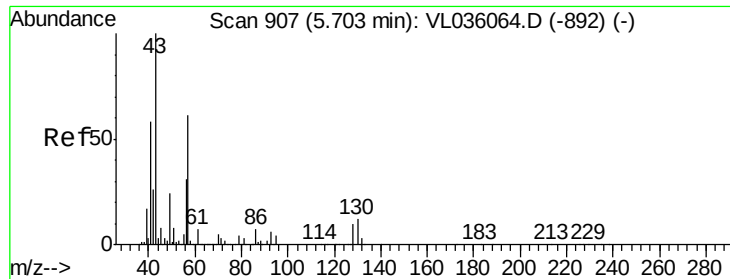
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#26

Hexane

Concen: 0.107 ppbv m

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

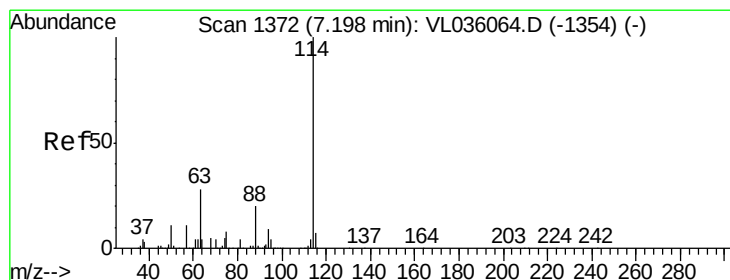
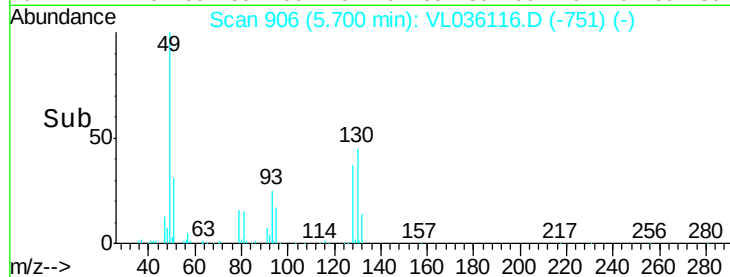
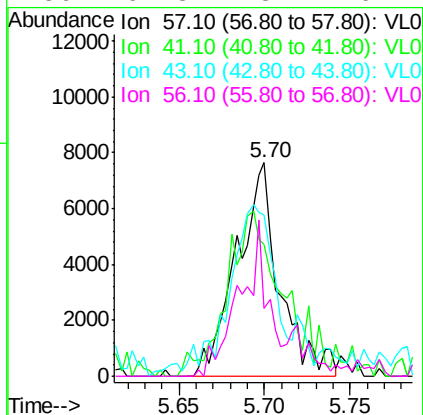
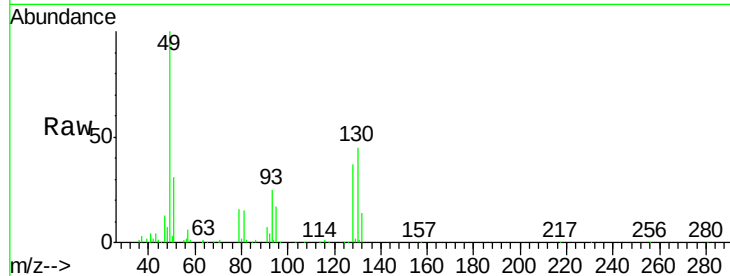
ClientSampleId :

SS-1B

Tot Ion:	57	Resp:	13314
Ion	Ratio	Lower	Upper
57	100		
41	106.6	82.9	124.3
43	113.4	199.9	299.9#
56	64.3	43.1	64.7

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

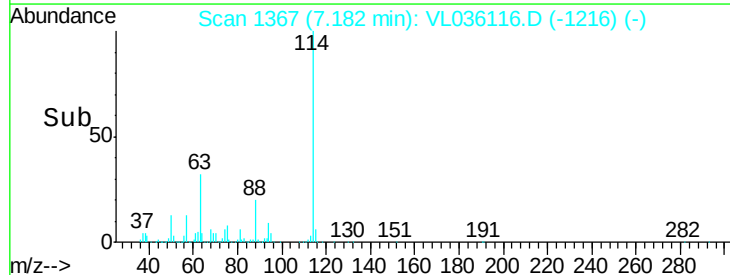
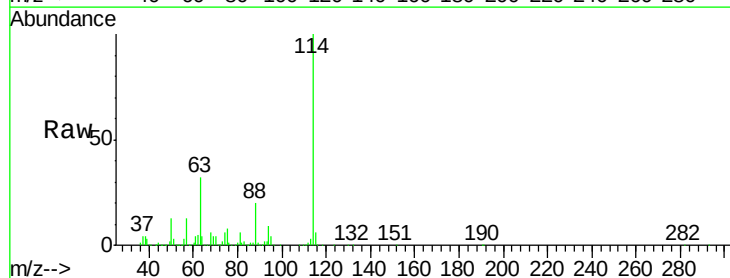
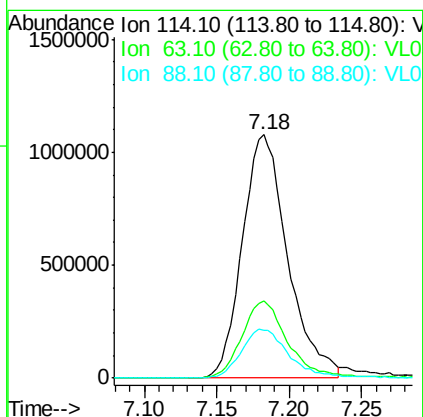
RT: 7.18 min Scan# 1367

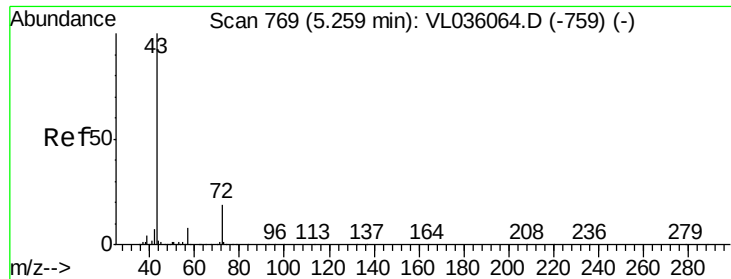
Delta R.T. -0.02 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Tgt Ion:	114	Resp:	2347597
Ion	Ratio	Lower	Upper
114	100		
63	32.6	23.6	35.4
88	21.3	15.8	23.6





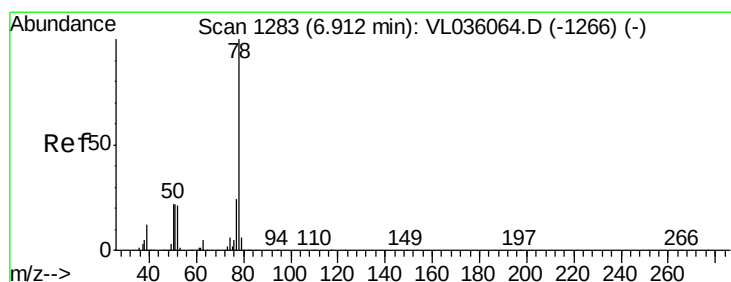
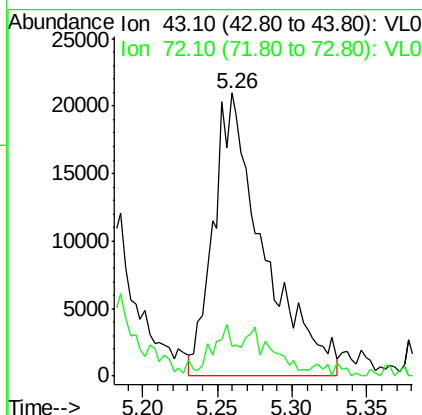
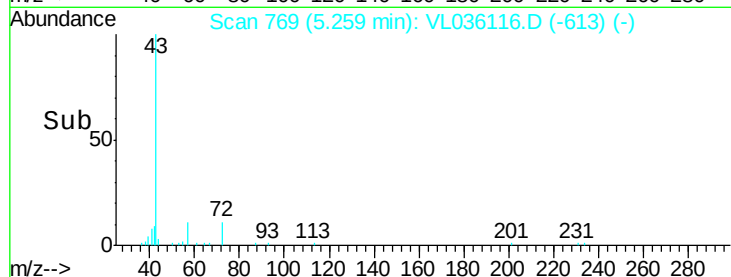
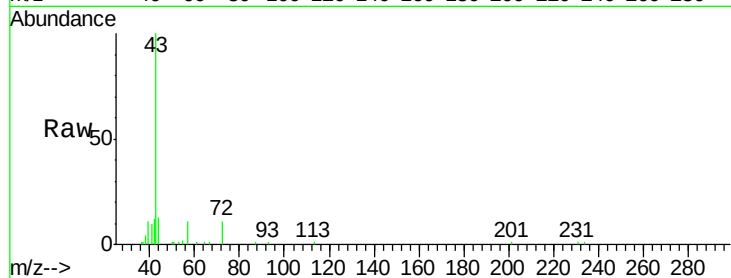
#34
2-Butanone
Concen: 0.313 ppbv m
RT: 5.26 min Scan# 769
Delta R.T. 0.00 min
Lab File: VL036116.D
Acq: 9 Dec 2020 4:50

Instrument :
MSVOA_L
ClientSampleId :
SS-1B

Tot Ion: 43 Resp: 48701
Ion Ratio Lower Upper
43 100
72 0.0 16.5 24.7#

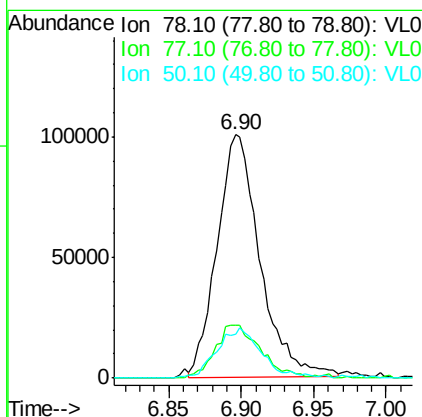
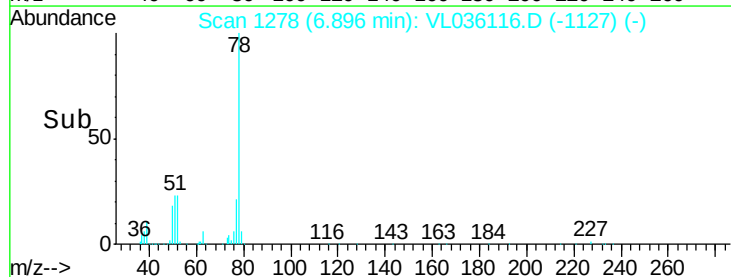
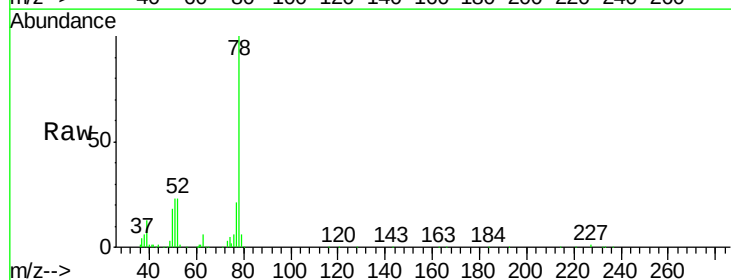
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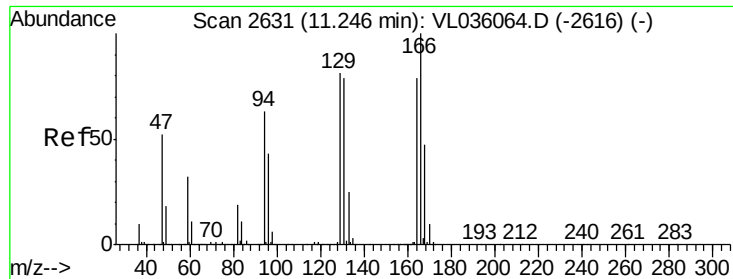
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#36
Benzene
Concen: 1.037 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.02 min
Lab File: VL036116.D
Acq: 9 Dec 2020 4:50

Tgt Ion: 78 Resp: 206354
Ion Ratio Lower Upper
78 100
77 21.7 19.4 29.2
50 17.5 17.8 26.8#





#52

Tetrachloroethene

Concen: 0.188 ppbv m

RT: 11.24 min Scan# 2629

Delta R.T. -0.01 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

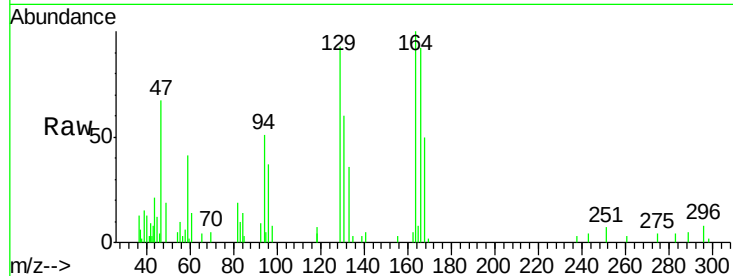
ClientSampled :

SS-1B

Tot Ion:	164	Resp:	13564
Ion Ratio	Lower	Upper	
164	100		
166	92.3	101.9	152.9#
129	93.2	82.1	123.1
131	60.0	80.8	121.2#

Manual Integrations
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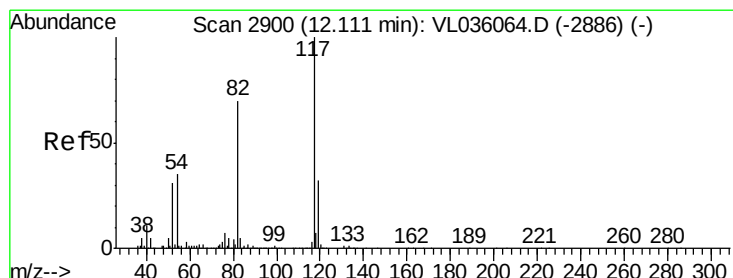
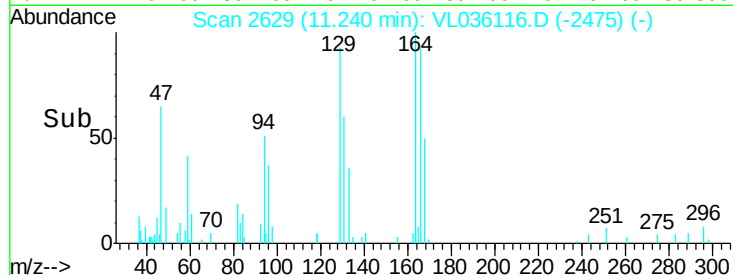
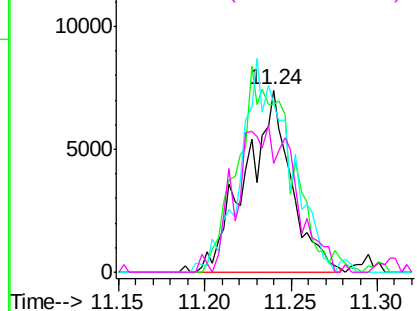


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.02 min

Lab File: VL036116.D

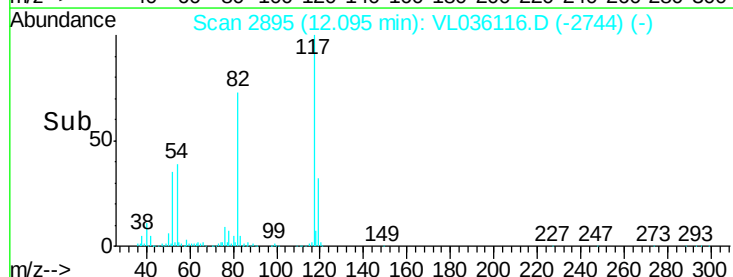
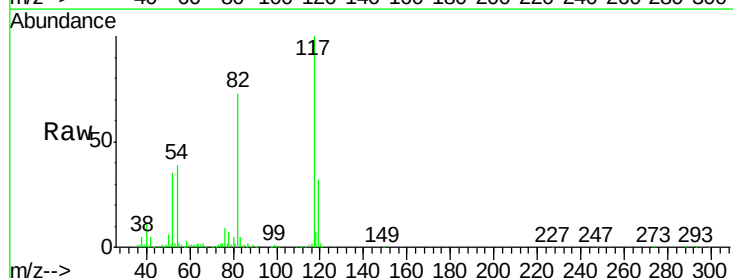
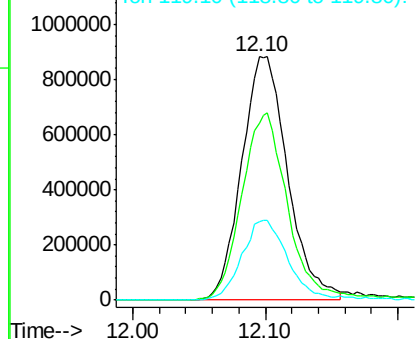
Acq: 9 Dec 2020 4:50

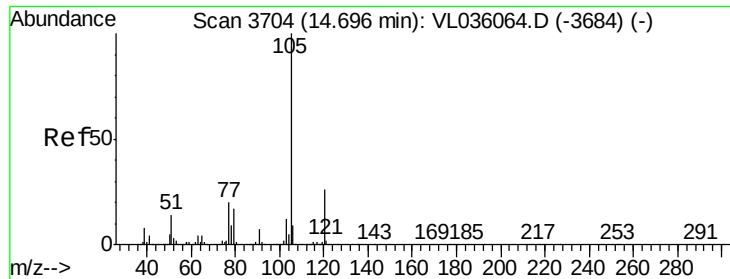
Tgt Ion:	117	Resp:	2132419
Ion Ratio	Lower	Upper	
117	100		
82	79.1	0.0	0.0#
119	33.9	0.0	0.0#

Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#62

Isopropylbenzene

Concen: 0.428 ppbv m

RT: 14.69 min Scan# 3701

Delta R.T. -0.01 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

Instrument :

MSVOA_L

ClientSampleId :

SS-1B

Tot Ion: 105 Resp: 147133

Ion Ratio Lower Upper

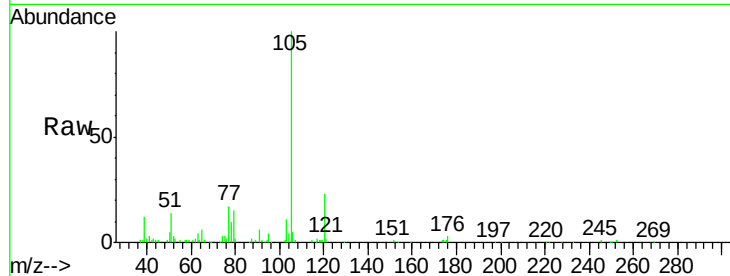
105 100

120 0.0 20.1 30.1#

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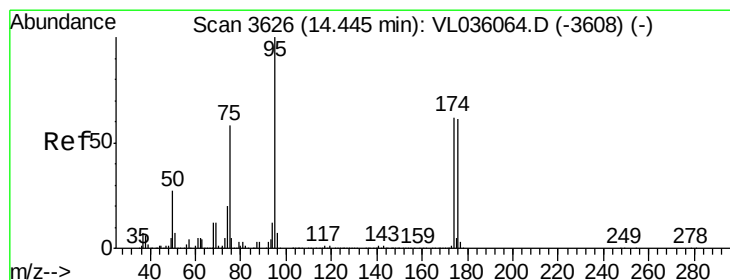
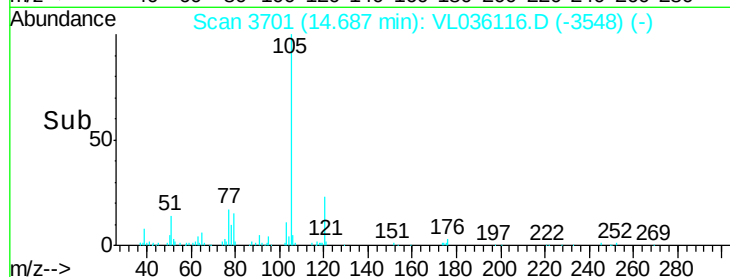
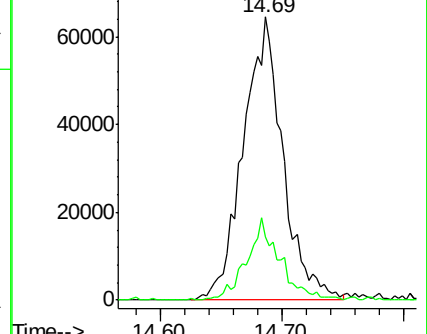
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.608 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.02 min

Lab File: VL036116.D

Acq: 9 Dec 2020 4:50

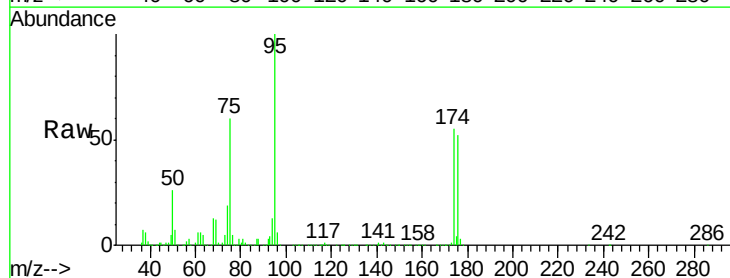
Tgt Ion: 95 Resp: 1796208

Ion Ratio Lower Upper

95 100

174 58.8 50.7 76.1

175 4.4 4.0 6.0



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

