

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036544.D
 Acq On : 29 Mar 2021 18:09
 Operator : SY/AP
 Sample : M1760-08
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-ROOFTOP

Manual Integrations
 APPROVED

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 3/30/2021 7:44:12 PM

Quant Time: Mar 30 11:26:54 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	5.65	49	1548393	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	3457062	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3056315	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2530365	10.39	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	69691	0.276	ppbv	97
3) Chlorodifluoromethane	2.98	51	96088	0.332	ppbv #	85
4) Chloromethane	3.13	50	48641	0.476	ppbv	98
9) Propene	3.01	41	69521	0.754	ppbv #	81
11) Trichlorofluoromethane	3.94	101	54563m	0.212	ppbv	
13) Ethanol	3.60	45	217412m	19.796	ppbv	
15) Acetone	3.85	43	516168	3.387	ppbv	99
19) Isopropyl Alcohol	3.98	45	100159m	1.195	ppbv	
20) Methylene Chloride	4.34	84	510706	7.157	ppbv	97
26) Hexane	5.68	57	678791	4.037	ppbv #	47
34) 2-Butanone	5.25	43	45370	0.269	ppbv #	86
35) Carbon Tetrachloride	7.01	117	15530m	0.058	ppbv	
36) Benzene	6.88	78	47903	0.150	ppbv	95
53) Toluene	9.80	91	243117	0.716	ppbv	99

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

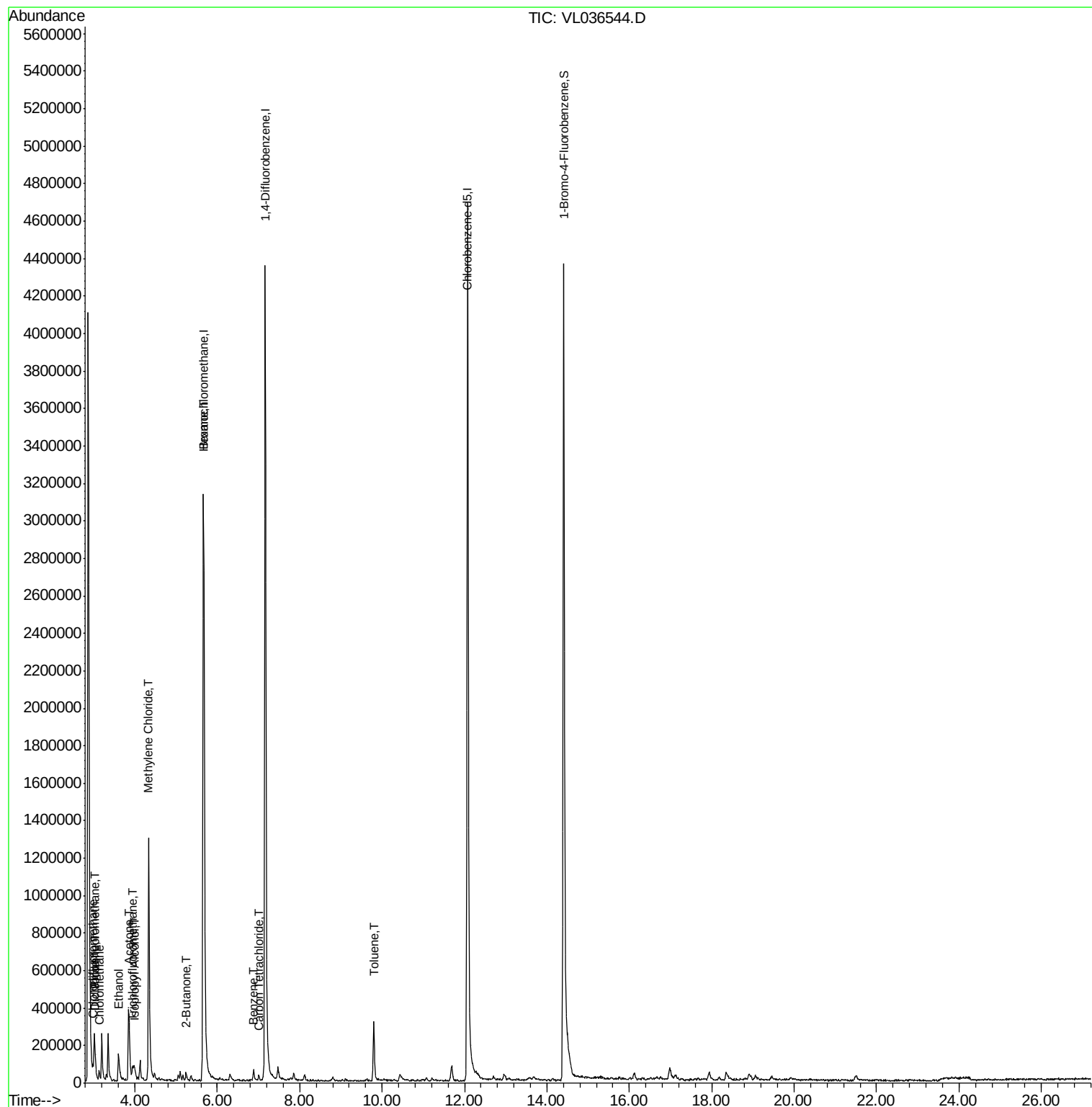
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032921\
Data File : VL036544.D
Acq On : 29 Mar 2021 18:09
Operator : SY/AP
Sample : M1760-08
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

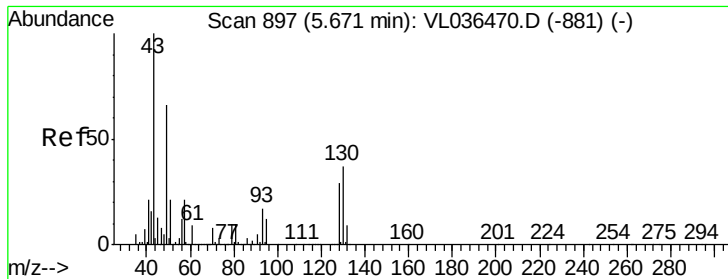
Instrument :
MSVOA_L
ClientSampleId :
AA-ROOFTOP

Manual Integrations
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3/30/2021 7:44:12 PM

Quant Time: Mar 30 11:26:54 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
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: 5.65 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOFTOP

Tot Ion: 49 Resp: 1548393

Ion Ratio Lower Upper

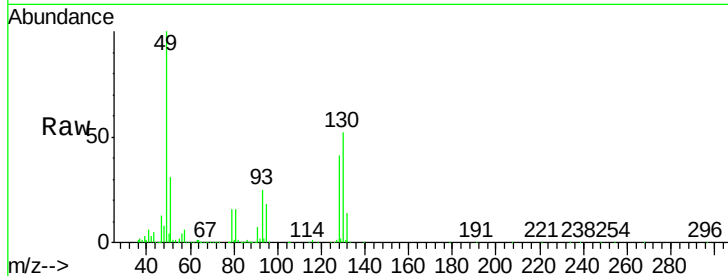
49 100

128 43.9 23.5 70.6

130 57.4 29.1 87.4

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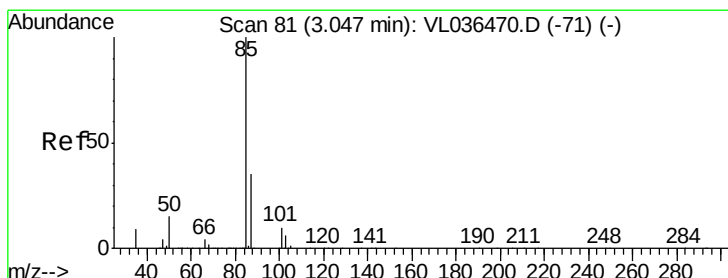
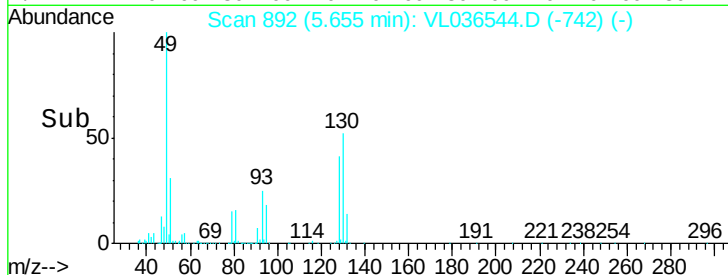
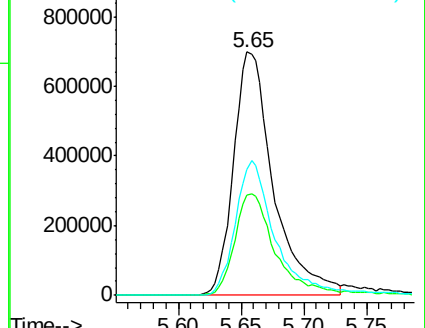
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.276 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036544.D

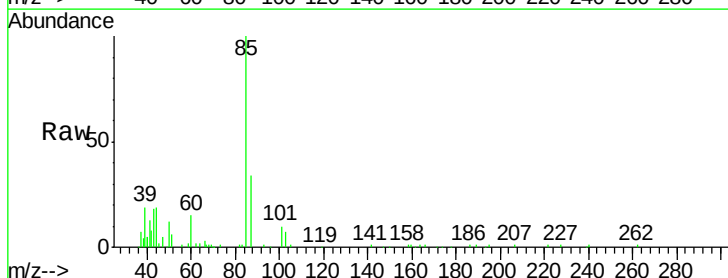
Acq: 29 Mar 2021 18:09

Tgt Ion: 85 Resp: 69691

Ion Ratio Lower Upper

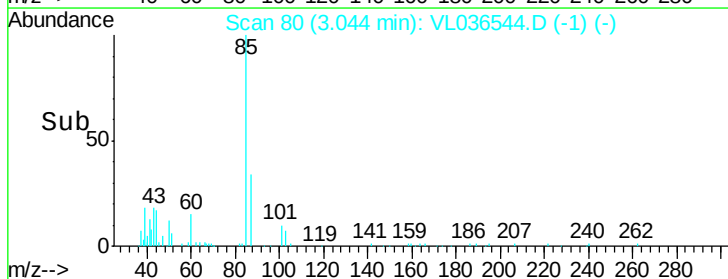
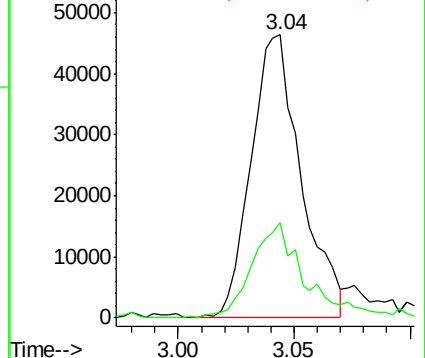
85 100

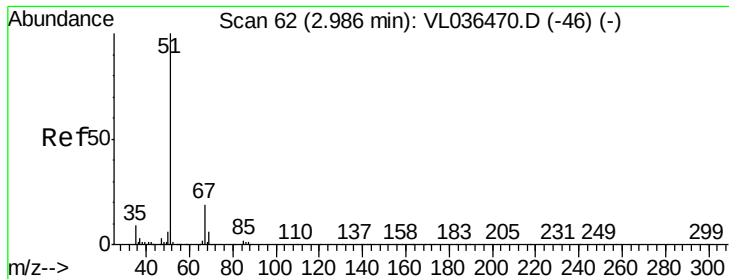
87 32.8 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





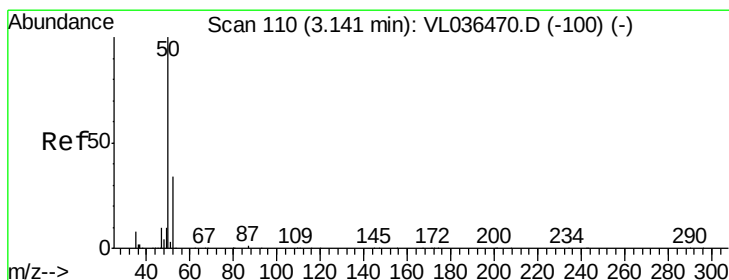
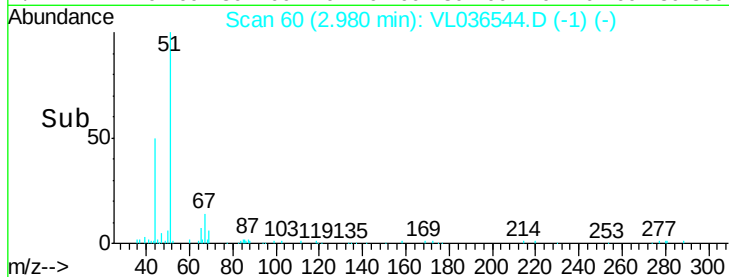
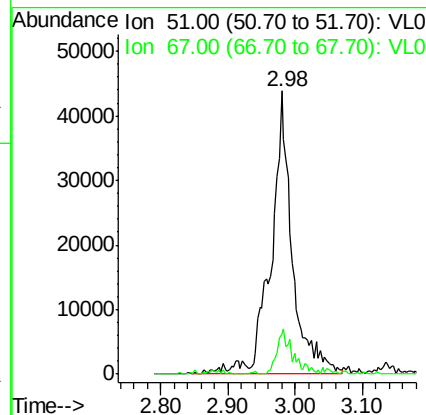
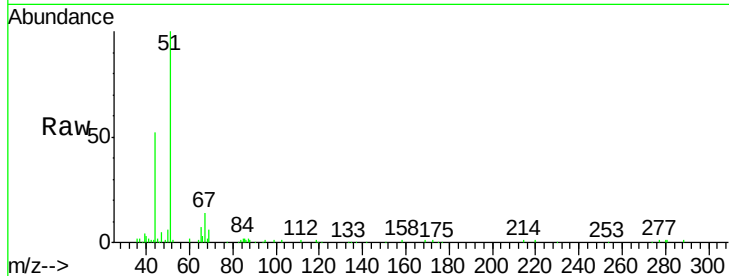
#3
Chlorodifluoromethane
Concen: 0.332 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.01 min
Lab File: VL036544.D
Acq: 29 Mar 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
AA-ROOFTOP

Tot Ion: 51 Resp: 96088
Ion Ratio Lower Upper
51 100
67 11.9 14.7 22.1#

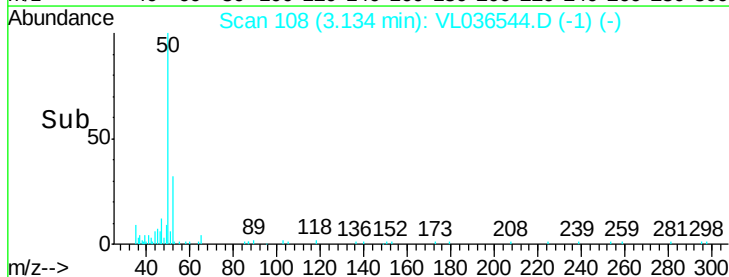
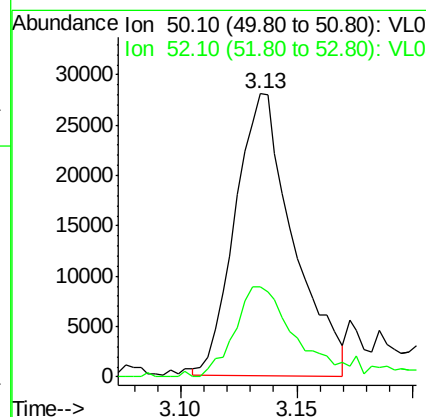
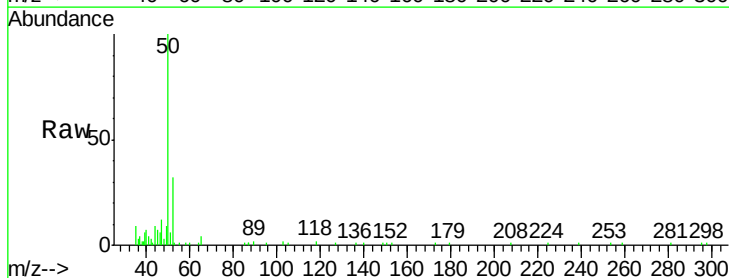
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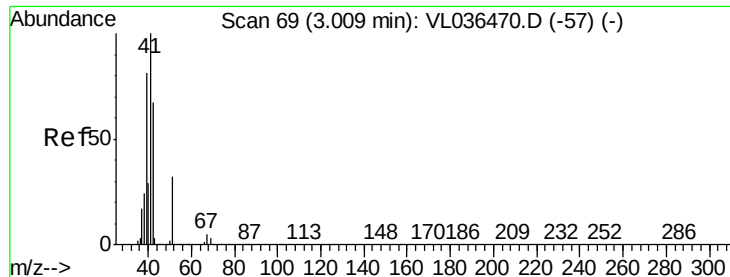
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#4
Chloromethane
Concen: 0.476 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL036544.D
Acq: 29 Mar 2021 18:09

Tgt Ion: 50 Resp: 48641
Ion Ratio Lower Upper
50 100
52 32.9 27.0 40.6





#9

Propene

Concen: 0.754 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOFTOP

Tot Ion: 41 Resp: 69521

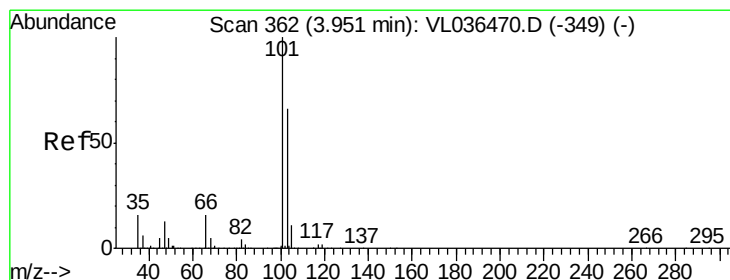
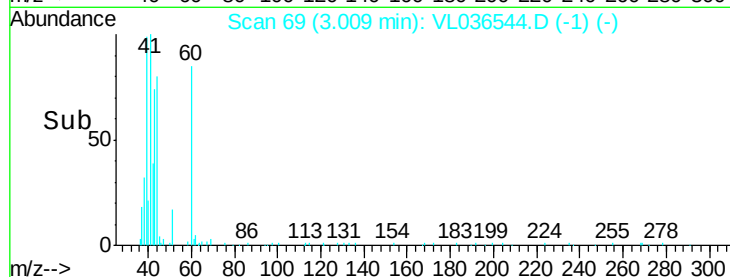
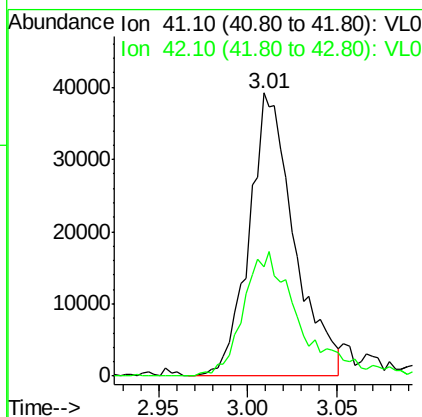
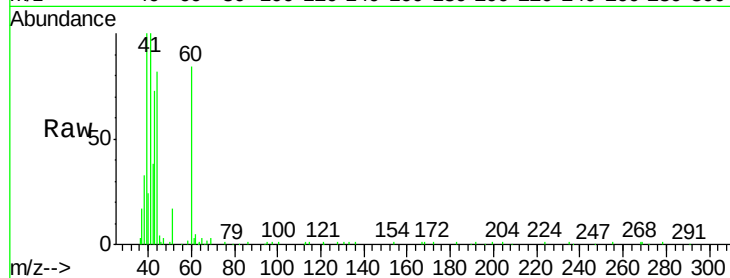
Ion Ratio Lower Upper

41 100

42 55.5 57.0 85.4#

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#11

Trichlorofluoromethane

Concen: 0.212 ppbv m

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL036544.D

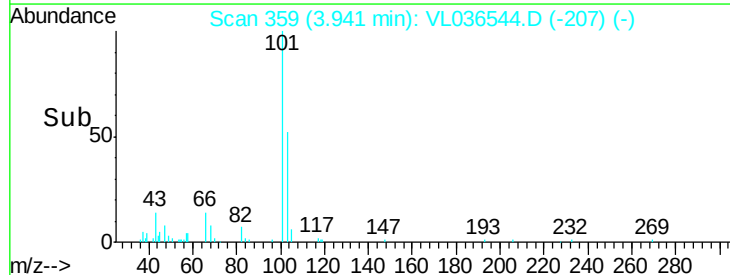
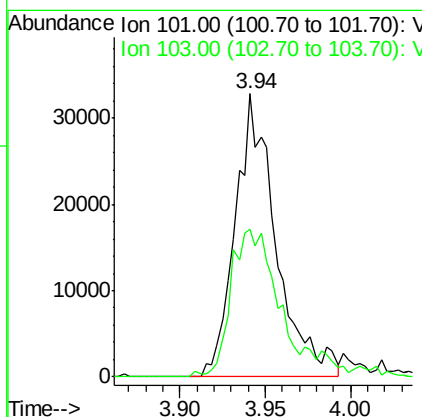
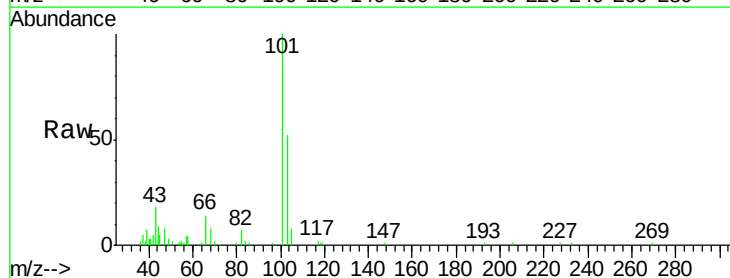
Acq: 29 Mar 2021 18:09

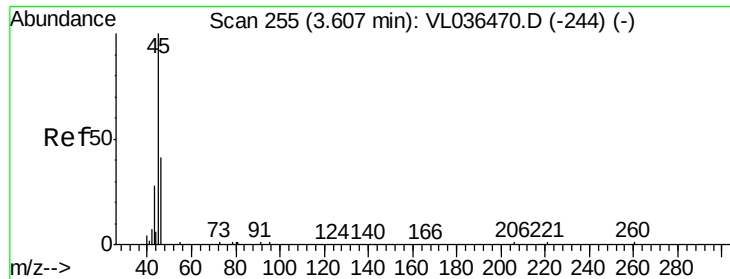
Tgt Ion: 101 Resp: 54563

Ion Ratio Lower Upper

101 100

103 52.0 52.5 78.7#





#13

Ethanol

Concen: 19.796 ppbv m

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOFTOP

Tot Ion: 45 Resp: 217412

Ion Ratio Lower Upper

45 100

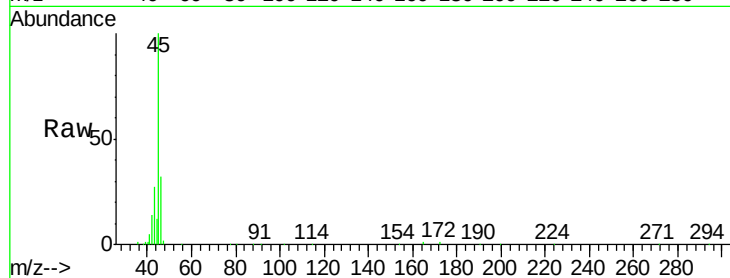
46 35.1 16.6 66.2

Manual Integrations

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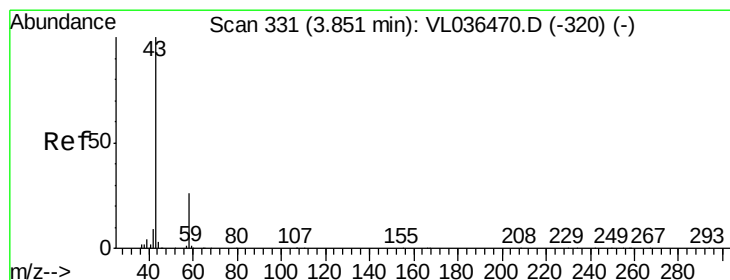
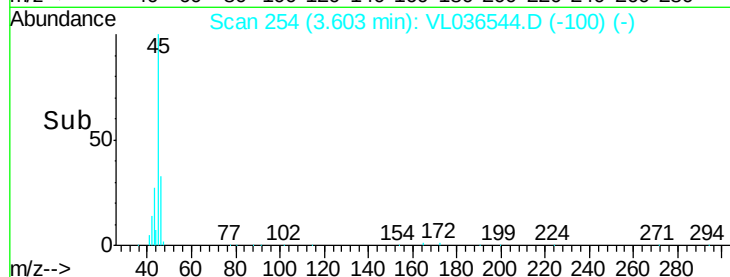
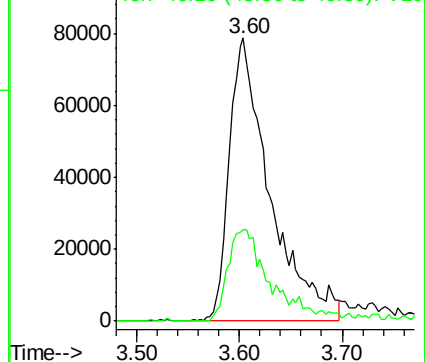
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 3.387 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL036544.D

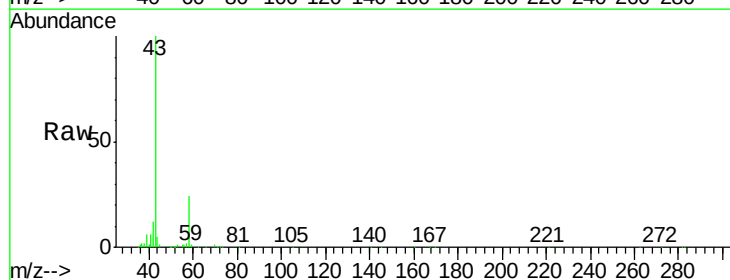
Acq: 29 Mar 2021 18:09

Tgt Ion: 43 Resp: 516168

Ion Ratio Lower Upper

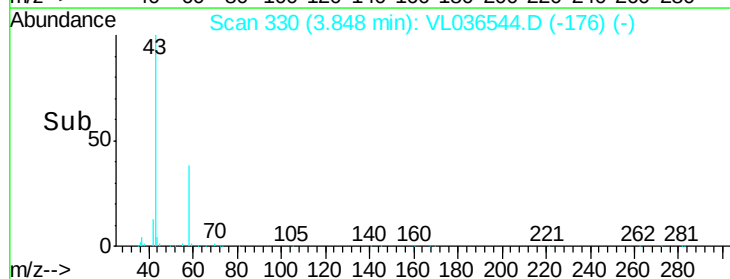
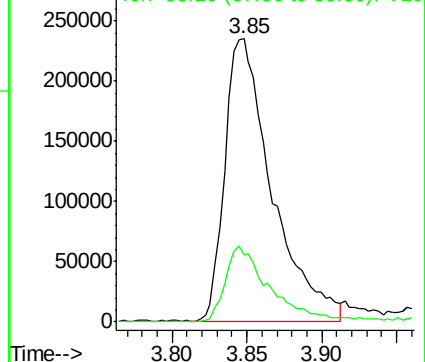
43 100

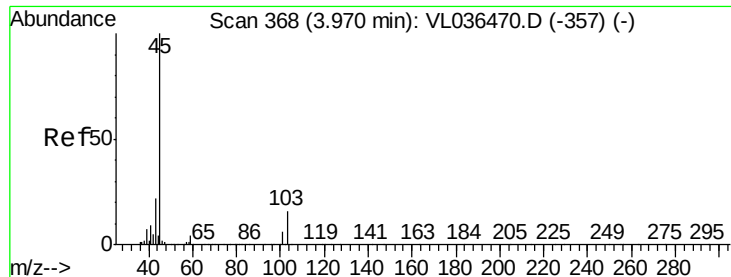
58 25.7 21.2 31.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#19

Isopropyl Alcohol

Concen: 1.195 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOFTOP

Tot Ion: 45 Resp: 100159

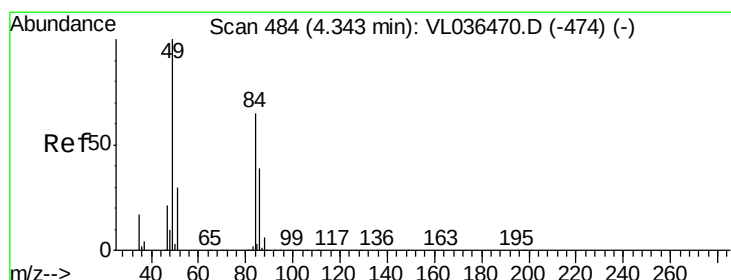
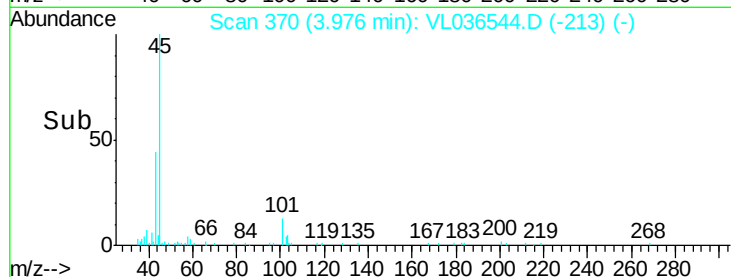
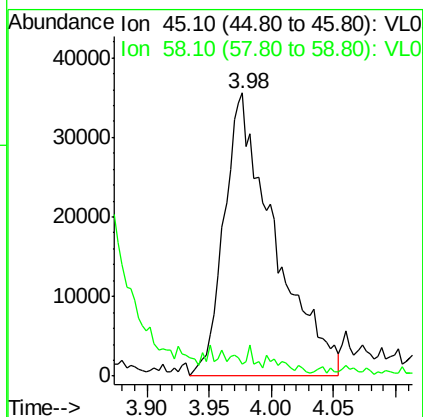
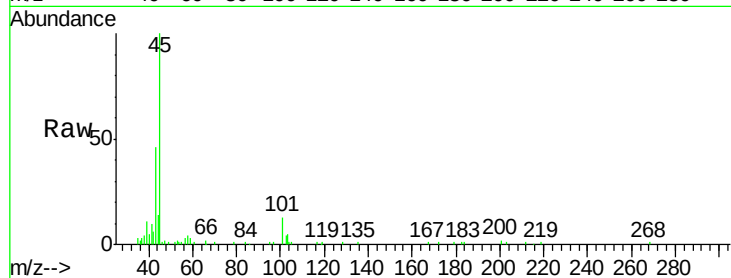
Ion Ratio Lower Upper

45 100

58 8.1 2.9 4.3#

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#20

Methylene Chloride

Concen: 7.157 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

Tgt Ion: 84 Resp: 510706

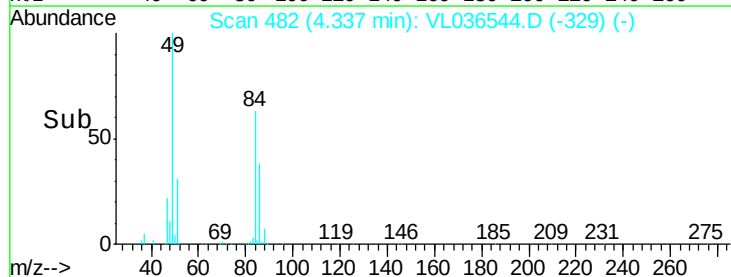
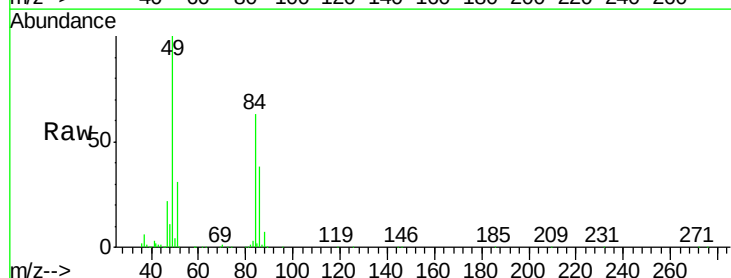
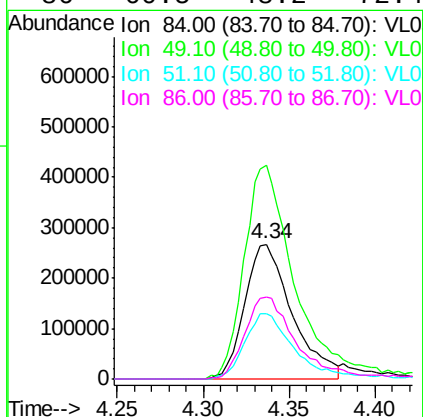
Ion Ratio Lower Upper

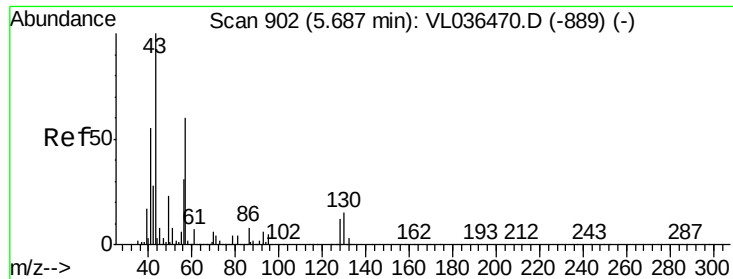
84 100

49 158.4 122.9 184.3

51 48.2 36.9 55.3

86 60.5 48.2 72.4





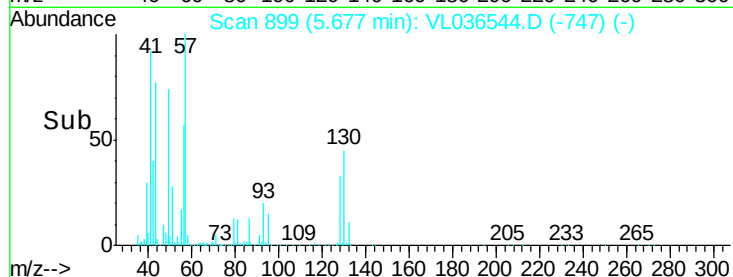
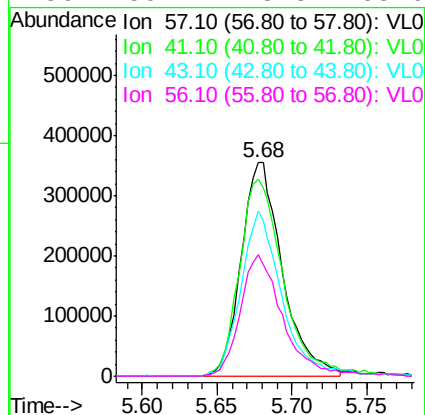
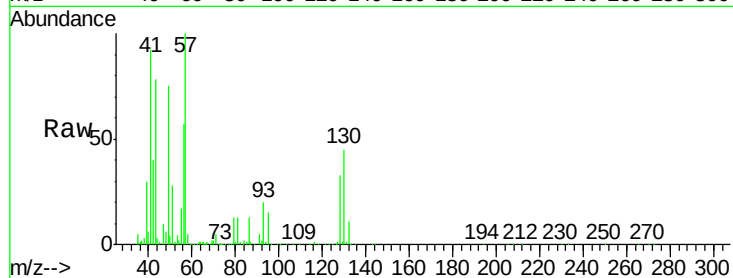
#26
Hexane
Concen: 4.037 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036544.D
Acq: 29 Mar 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
AA-ROOFTOP

Tot Ion	Ratio	Lower	Upper
57	100		
41	100.1	77.2	115.8
43	78.9	173.8	260.6#
56	59.1	43.8	65.6

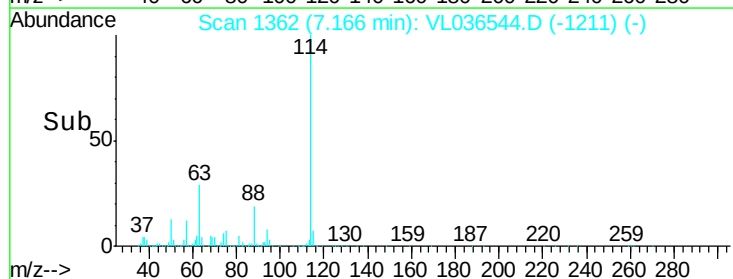
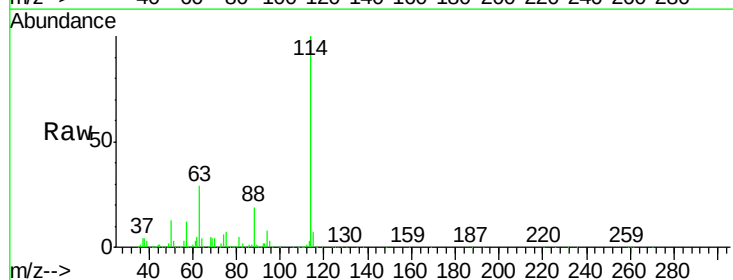
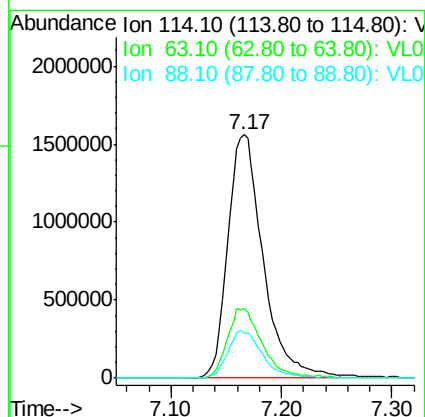
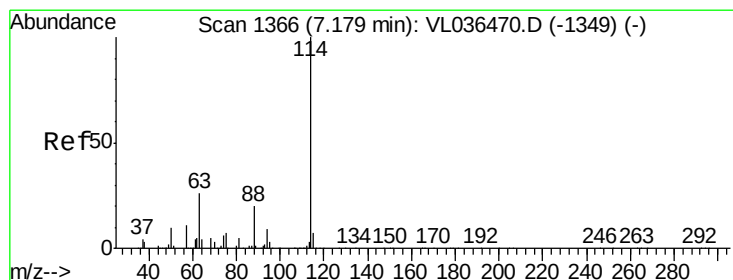
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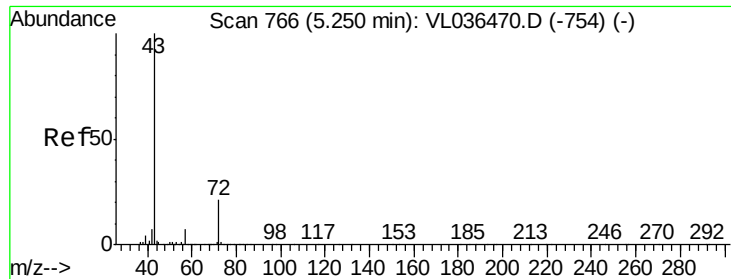
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.01 min
Lab File: VL036544.D
Acq: 29 Mar 2021 18:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.8	22.4	33.6
88	19.4	15.4	23.0





#34

2-Butanone

Concen: 0.269 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.00 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOFTOP

Tot Ion: 43 Resp: 45370

Ion Ratio Lower Upper

43 100

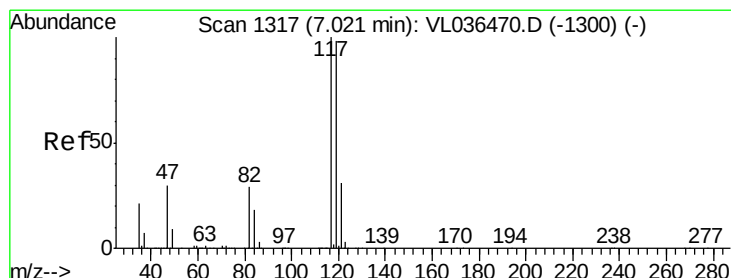
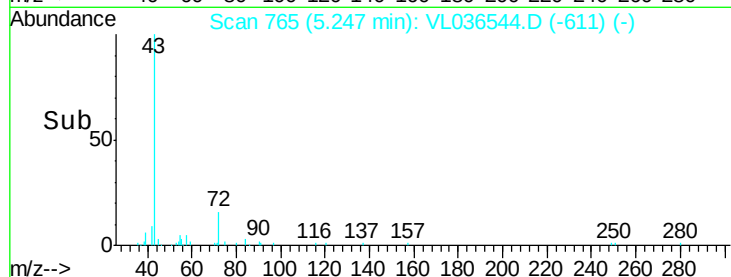
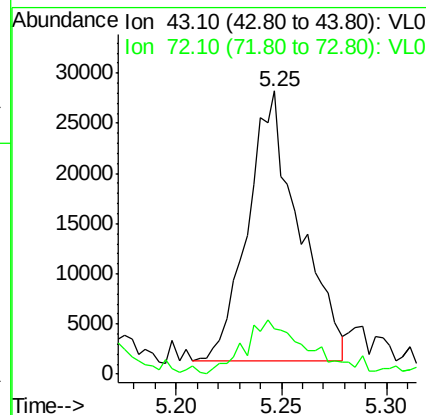
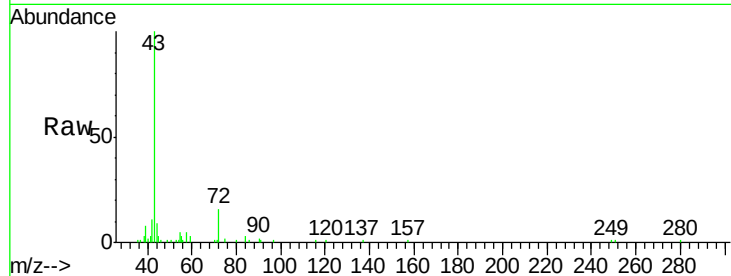
72 28.0 17.0 25.6#

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#35

Carbon Tetrachloride

Concen: 0.058 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

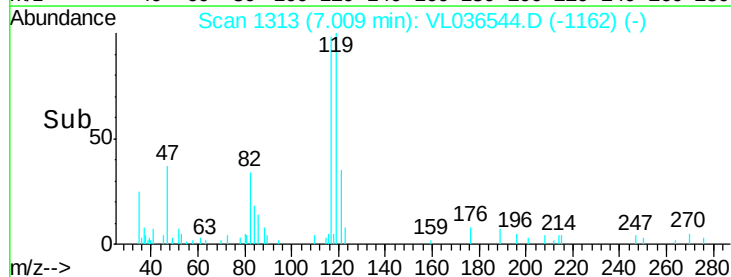
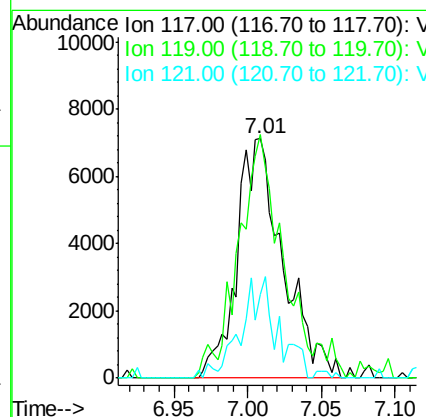
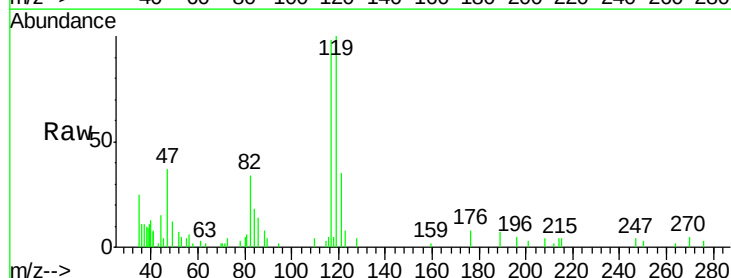
Tgt Ion: 117 Resp: 15530

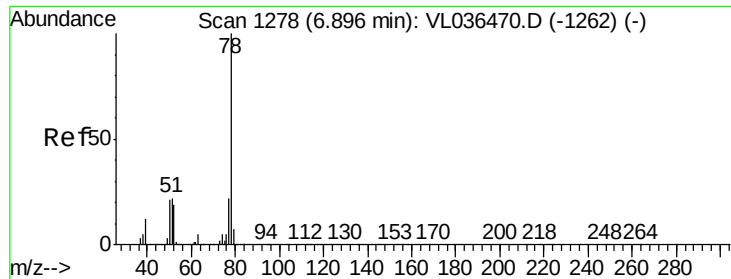
Ion Ratio Lower Upper

117 100

119 101.6 78.2 117.2

121 35.2 24.5 36.7





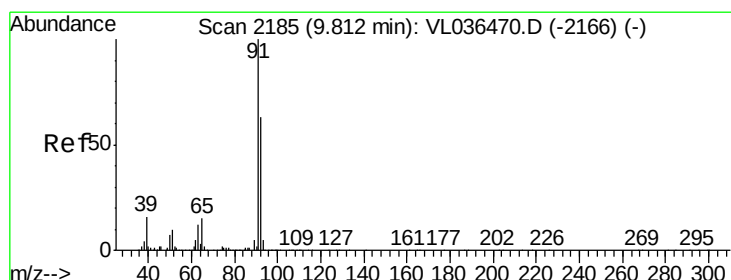
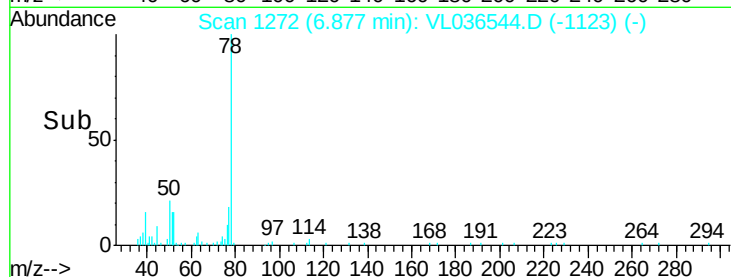
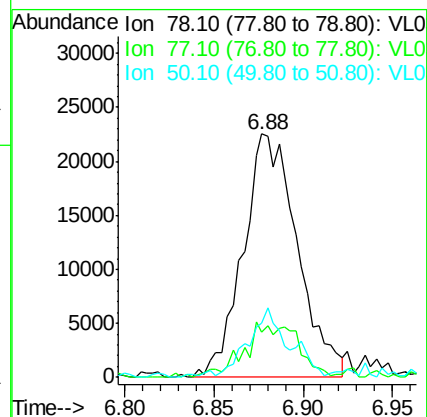
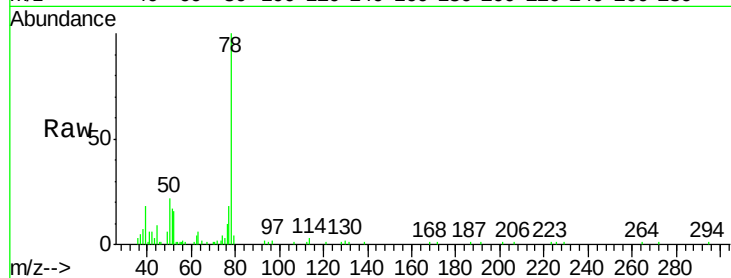
#36
Benzene
Concen: 0.150 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL036544.D
Acq: 29 Mar 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
AA-ROOFTOP

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.3	18.0	27.0
50	20.9	16.5	24.7

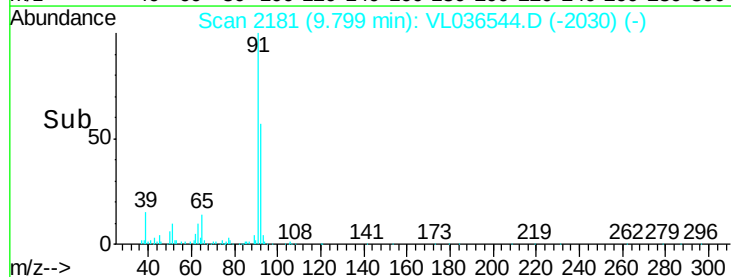
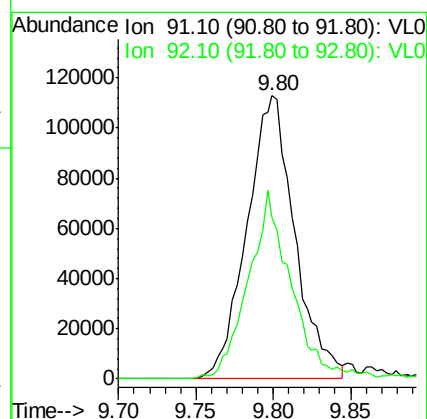
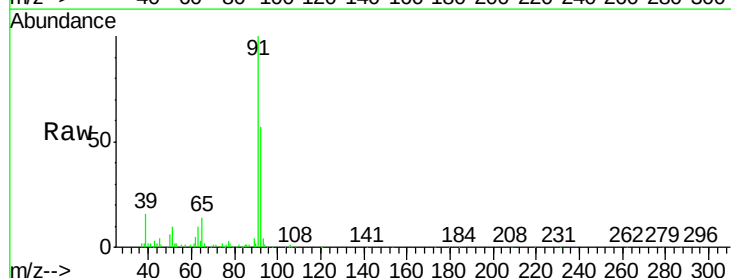
Manual Integrations
APPROVED

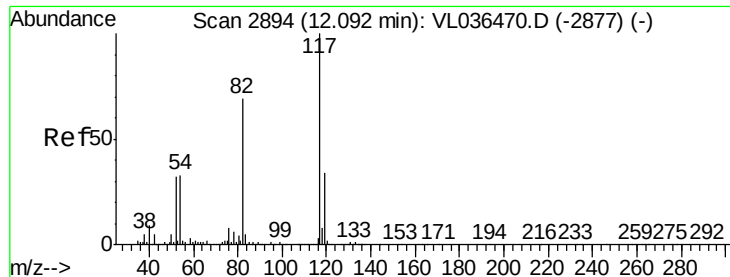
MMDadoda
3/30/2021 7:44:12 PM



#53
Toluene
Concen: 0.716 ppbv
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL036544.D
Acq: 29 Mar 2021 18:09

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.8	73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.02 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOFTOP

Tot Ion:117 Resp: 3056315

Ion Ratio Lower Upper

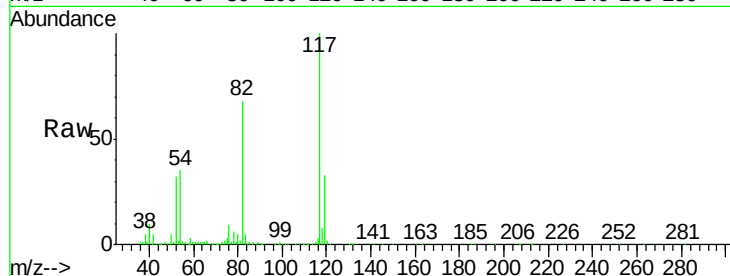
117 100

82 73.1 57.4 86.0

119 33.5 47.4 71.0#

Manual Integrations
APPROVED

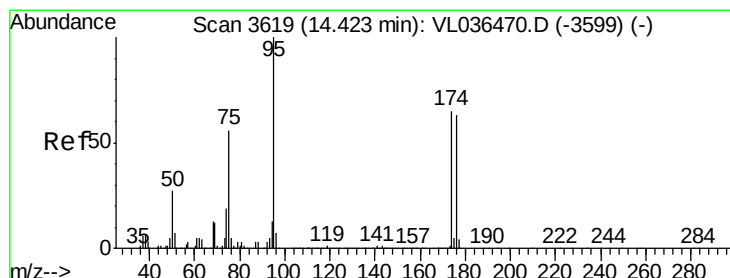
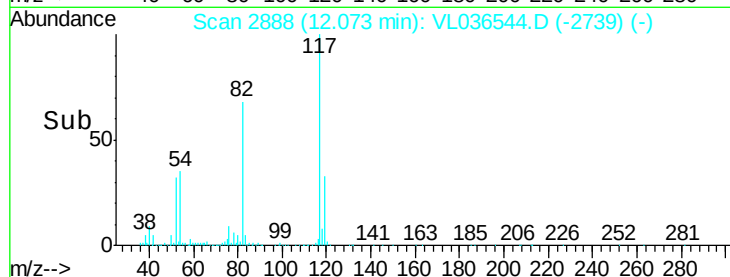
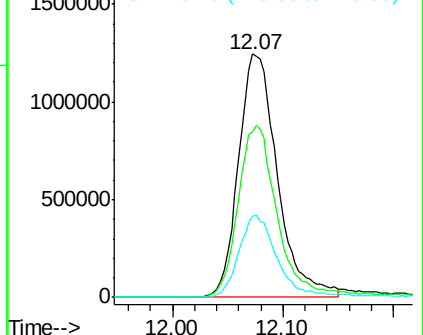
MMDadoda
3/30/2021 7:44:12 PM



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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.388 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.02 min

Lab File: VL036544.D

Acq: 29 Mar 2021 18:09

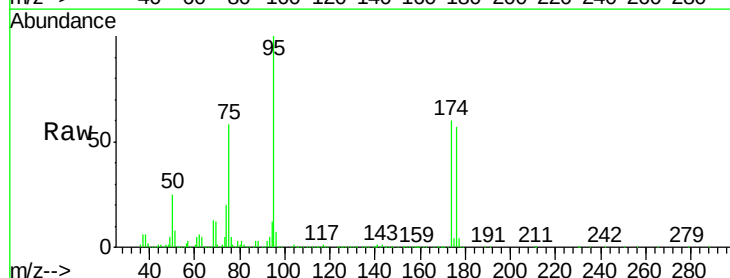
Tgt Ion: 95 Resp: 2530365

Ion Ratio Lower Upper

95 100

174 63.3 51.0 76.6

175 4.3 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

