

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036364.D
 Acq On : 25 Feb 2021 00:01
 Operator : SY/AP
 Sample : M1463-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

Manual Integrations
 APPROVED

MMDadoda
 2/26/2021 4:17:46 PM

Quant Time: Feb 26 14:21:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1701220	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.19	114	3674537	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	3278523	10.00	ppbv	0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2772530	10.28	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	41755m	0.164	ppbv	
3) Chlorodifluoromethane	3.00	51	76022	0.360	ppbv #	91
4) Chloromethane	3.15	50	58534m	0.573	ppbv	
9) Propene	3.02	41	95426	1.211	ppbv	91
11) Trichlorofluoromethane	3.97	101	52823	0.212	ppbv	99
13) Ethanol	3.62	45	217710m	14.707	ppbv	
15) Acetone	3.87	43	516195m	2.482	ppbv	
19) Isopropyl Alcohol	4.00	45	101670m	0.882	ppbv	
20) Methylene Chloride	4.36	84	115668m	1.724	ppbv	
26) Hexane	5.71	57	102136m	0.619	ppbv	
34) 2-Butanone	5.27	43	51102	0.209	ppbv #	81
35) Carbon Tetrachloride	7.03	117	13591m	0.055	ppbv	
36) Benzene	6.91	78	139344	0.446	ppbv	92
44) 2,2,4-Trimethylpentane	7.89	57	75638	0.133	ppbv #	70
53) Toluene	9.83	91	263419	0.779	ppbv	97
59) m/p-Xylene	12.98	91	115686m	0.293	ppbv	

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

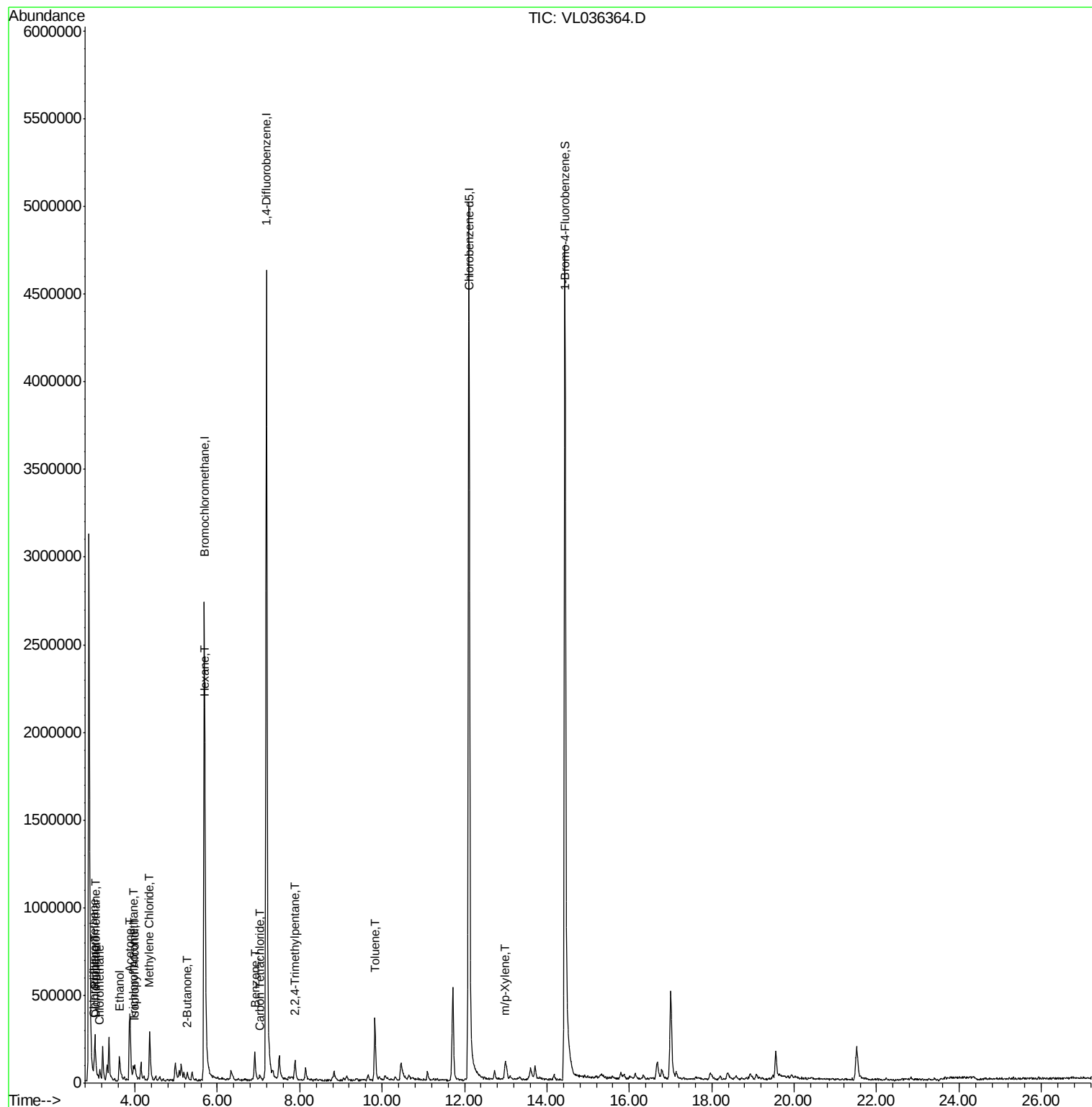
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022421\
Data File : VL036364.D
Acq On : 25 Feb 2021 00:01
Operator : SY/AP
Sample : M1463-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

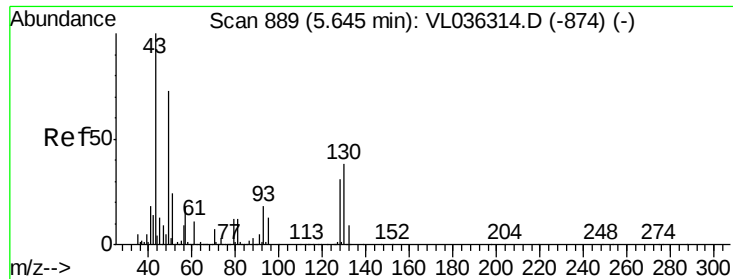
Instrument :
MSVOA_L
ClientSampleId :
NS-2

Manual Integrations
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Quant Time: Feb 26 14:21:00 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

NS-2

Tot Ion: 49 Resp: 1701220

Ion Ratio Lower Upper

49 100

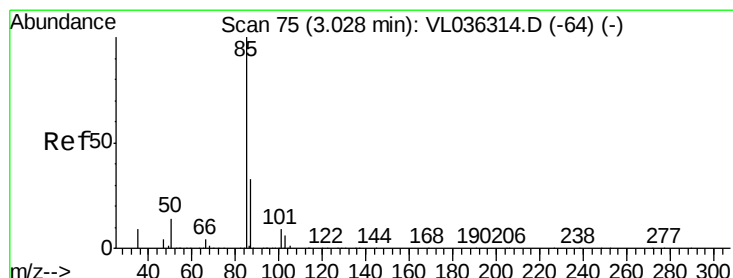
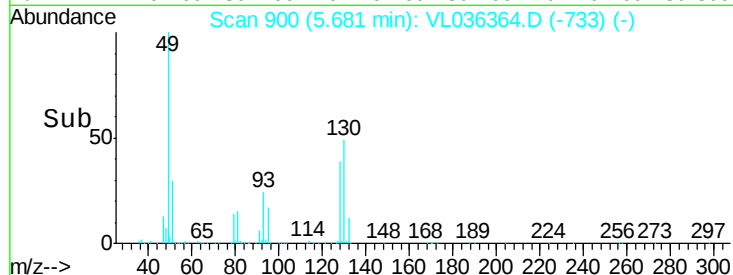
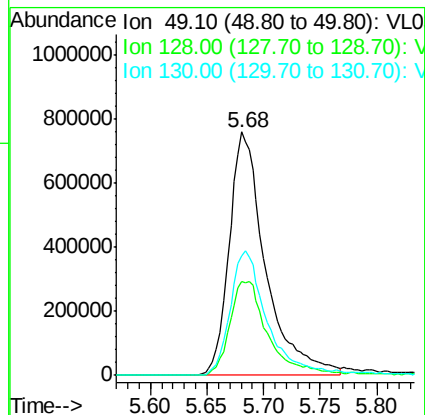
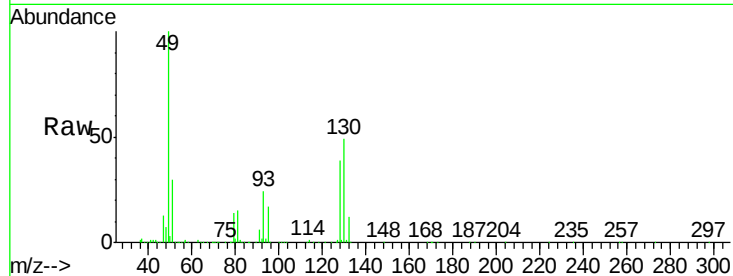
128 42.5 20.8 62.5

130 53.1 26.7 80.1

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#2

Dichlorodifluoromethane

Concen: 0.164 ppbv m

RT: 3.06 min Scan# 86

Delta R.T. 0.04 min

Lab File: VL036364.D

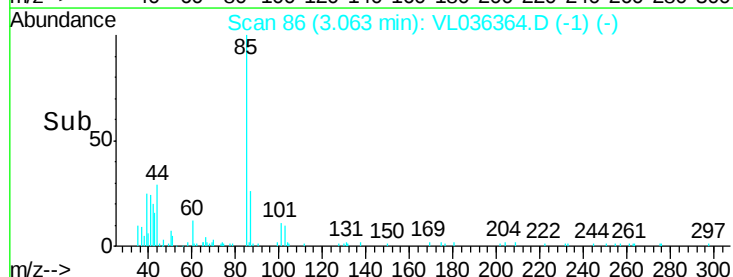
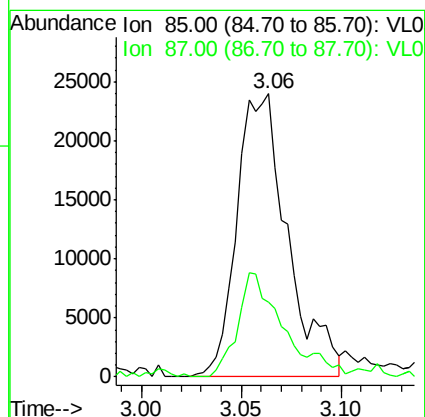
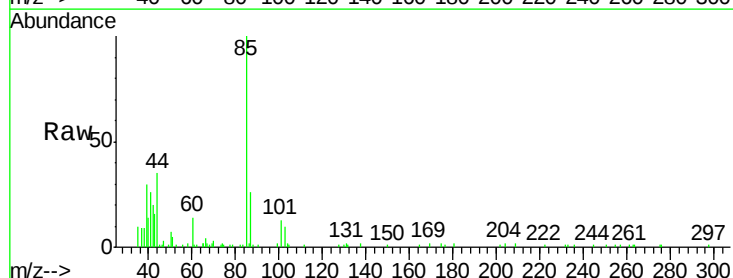
Acq: 25 Feb 2021 00:01

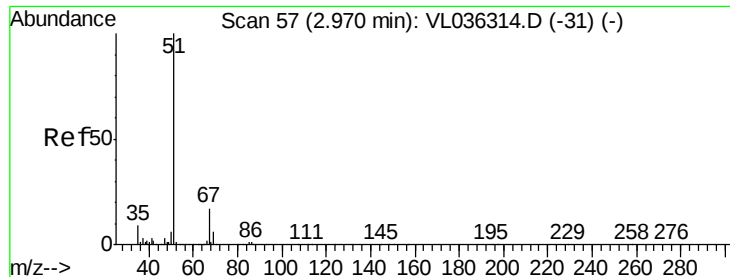
Tgt Ion: 85 Resp: 41755

Ion Ratio Lower Upper

85 100

87 26.2 26.5 39.7#





#3

Chlorodifluoromethane

Concen: 0.360 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.03 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

NS-2

Tot Ion: 51 Resp: 76022

Ion Ratio Lower Upper

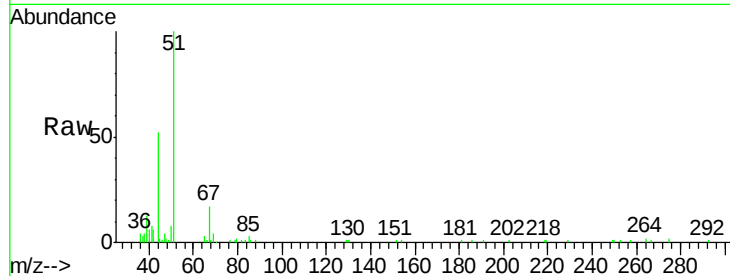
51 100

67 14.2 14.7 22.1#

Manual Integrations
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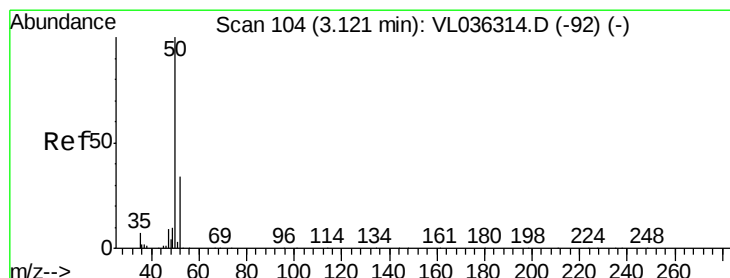
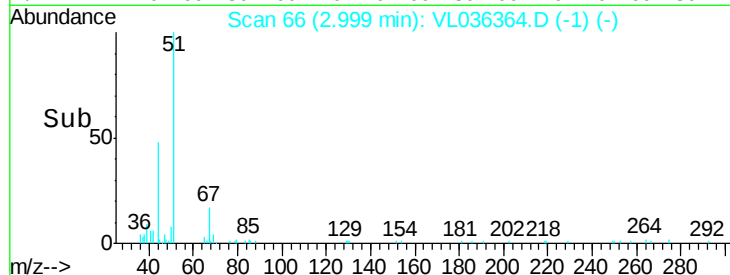
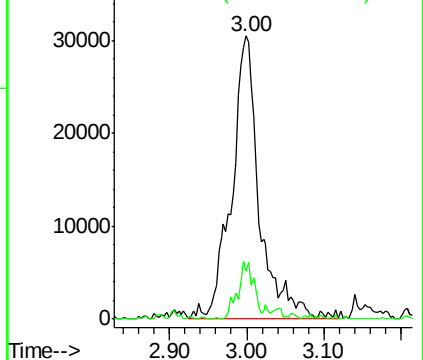
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.573 ppbv m

RT: 3.15 min Scan# 114

Delta R.T. 0.03 min

Lab File: VL036364.D

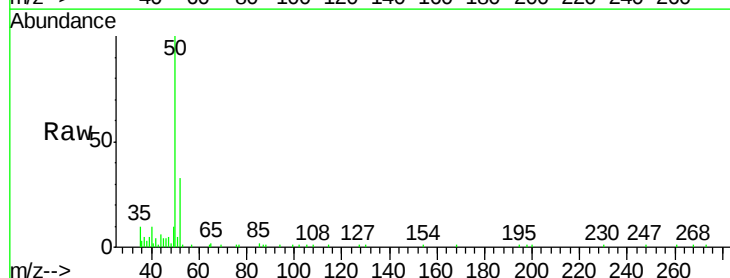
Acq: 25 Feb 2021 00:01

Tgt Ion: 50 Resp: 58534

Ion Ratio Lower Upper

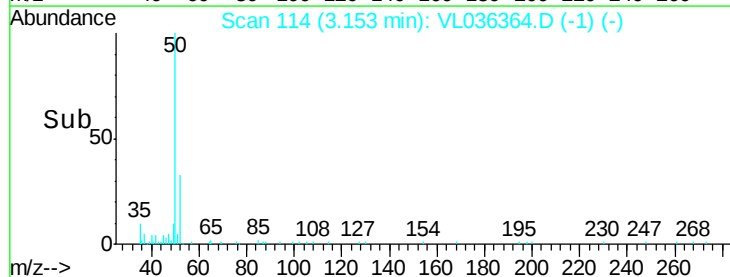
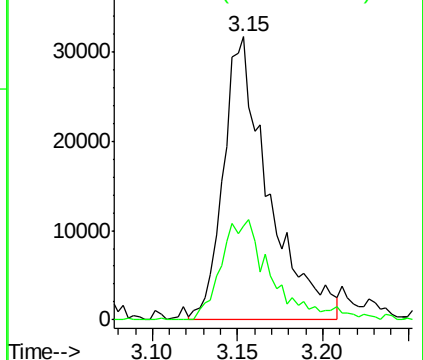
50 100

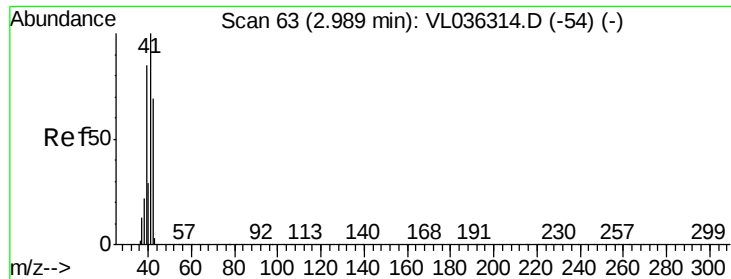
52 33.0 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.211 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampled :

NS-2

Tot Ion: 41 Resp: 95426

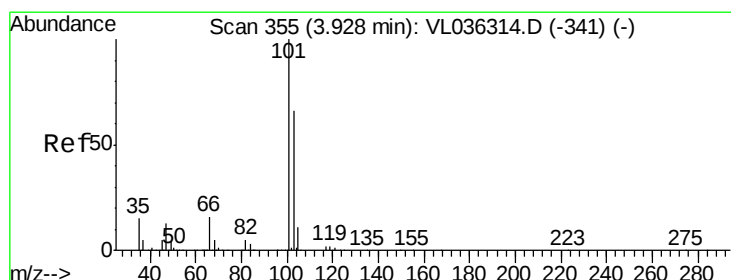
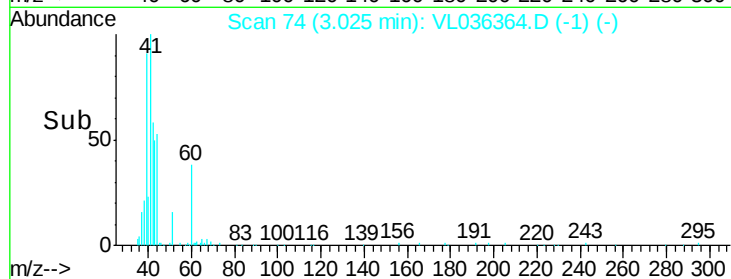
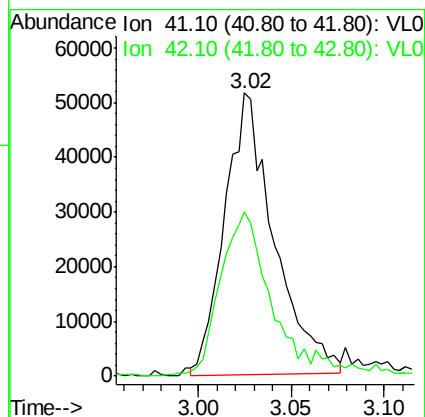
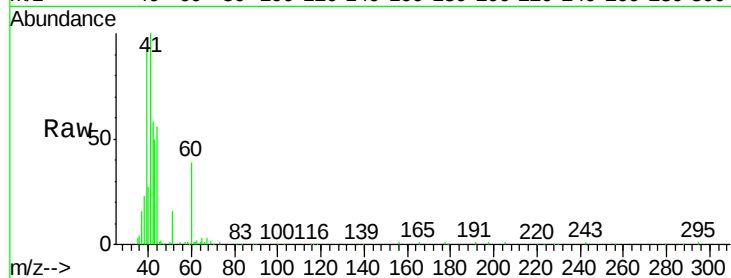
Ion Ratio Lower Upper

41 100

42 63.0 56.2 84.2

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#11

Trichlorofluoromethane

Concen: 0.212 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.04 min

Lab File: VL036364.D

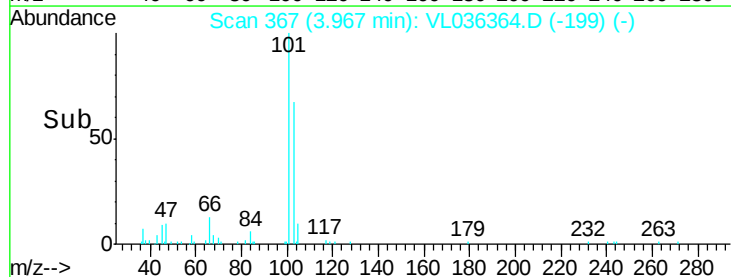
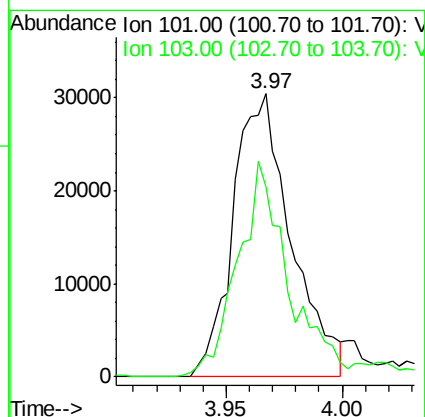
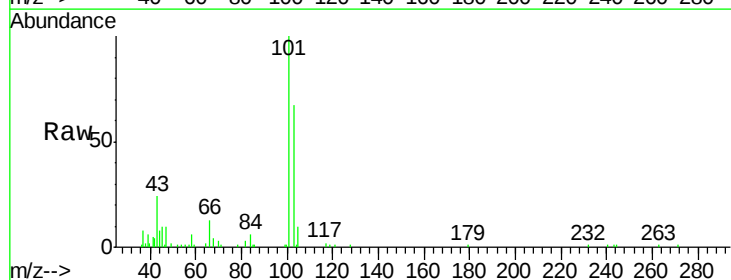
Acq: 25 Feb 2021 00:01

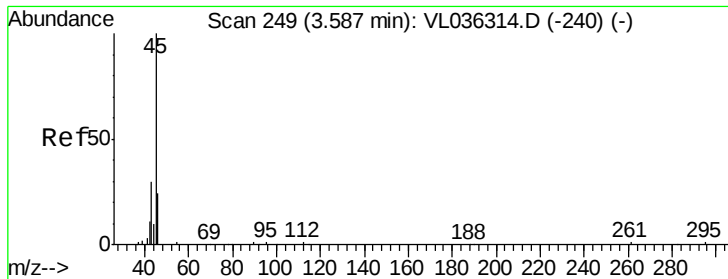
Tgt Ion: 101 Resp: 52823

Ion Ratio Lower Upper

101 100

103 65.7 52.9 79.3





#13

Ethanol

Concen: 14.707 ppbv m

RT: 3.62 min Scan# 260

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

NS-2

Tot Ion: 45 Resp: 217710

Ion Ratio Lower Upper

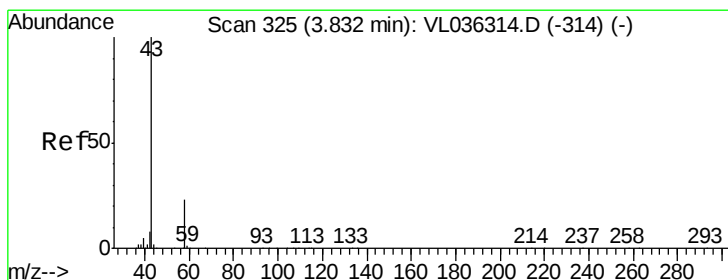
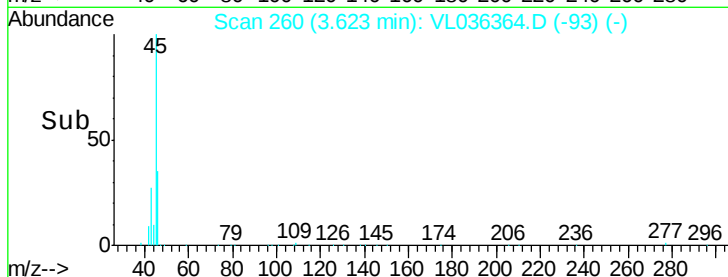
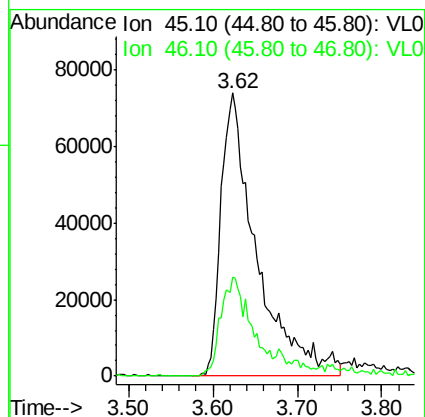
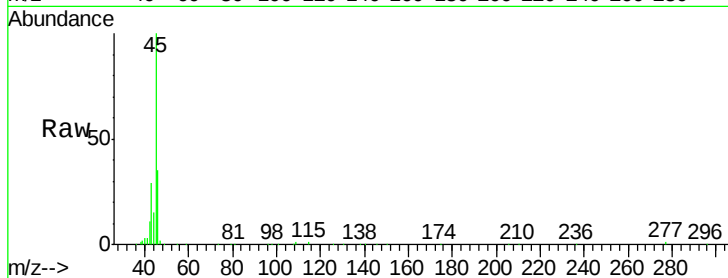
45 100

46 35.2 17.7 70.7

Manual Integrations
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#15

Acetone

Concen: 2.482 ppbv m

RT: 3.87 min Scan# 336

Delta R.T. 0.04 min

Lab File: VL036364.D

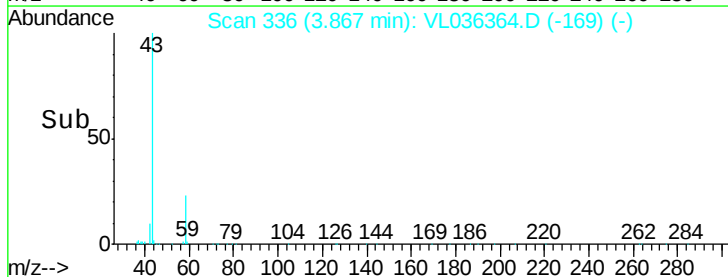
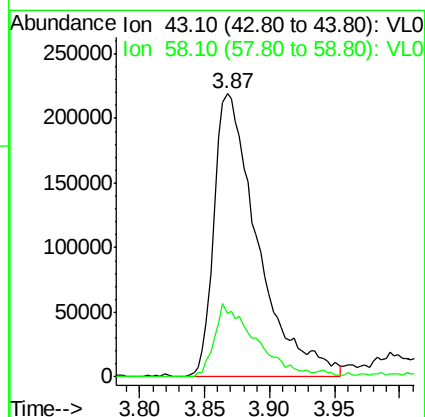
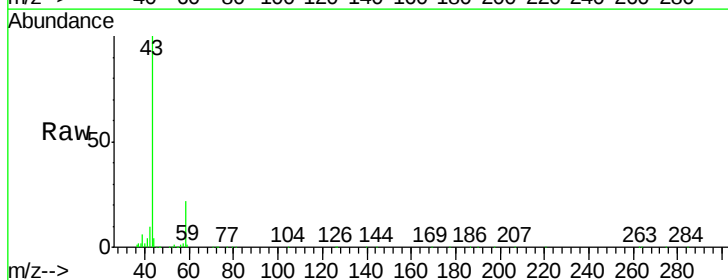
Acq: 25 Feb 2021 00:01

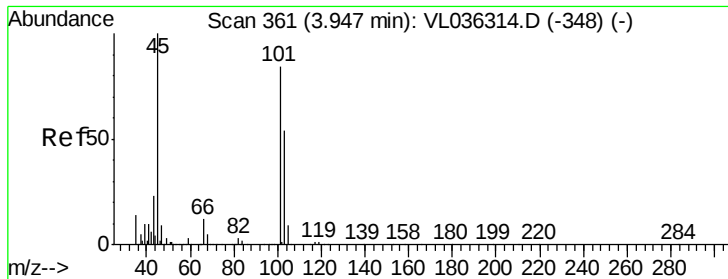
Tgt Ion: 43 Resp: 516195

Ion Ratio Lower Upper

43 100

58 25.8 20.3 30.5





#19

Isopropyl Alcohol

Concen: 0.882 ppbv m

RT: 4.00 min Scan# 376

Delta R.T. 0.05 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampled :

NS-2

Tot Ion: 45 Resp: 101670

Ion Ratio Lower Upper

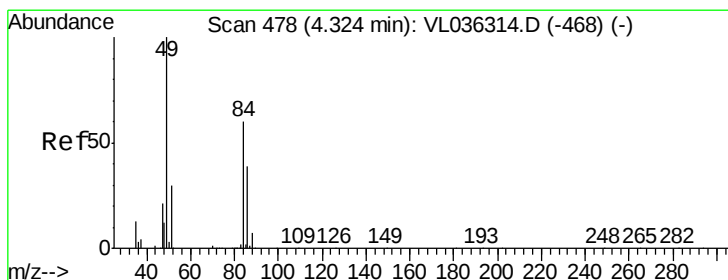
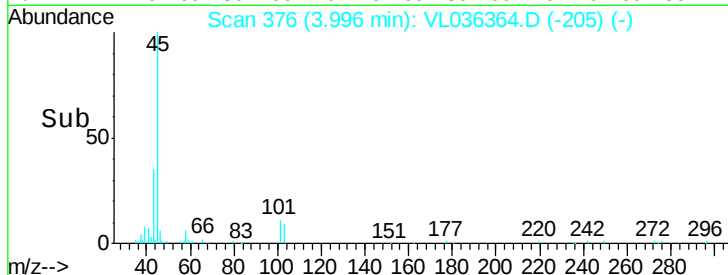
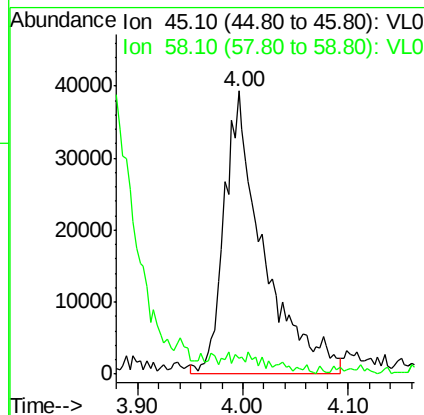
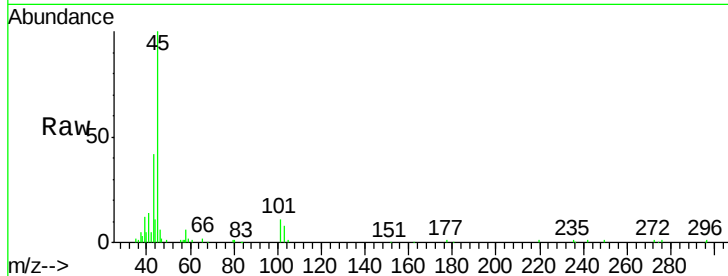
45 100

58 5.6 1.9 2.9#

Manual Integrations
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#20

Methylene Chloride

Concen: 1.724 ppbv m

RT: 4.36 min Scan# 489

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Tgt Ion: 84 Resp: 115668

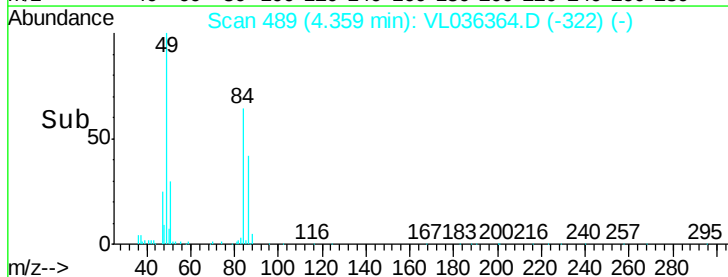
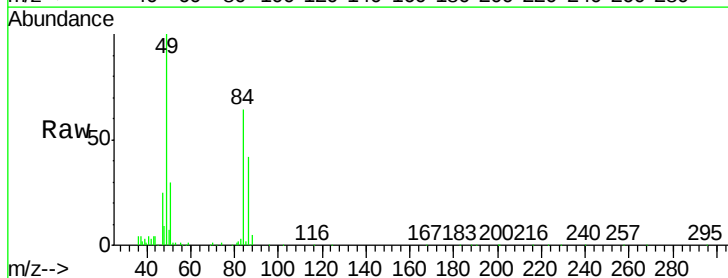
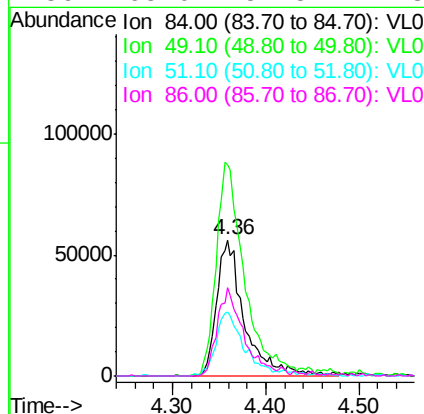
Ion Ratio Lower Upper

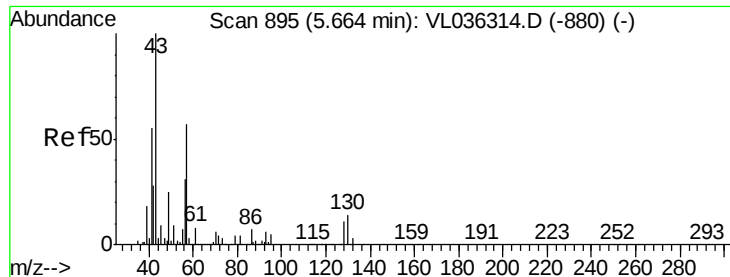
84 100

49 155.5 133.8 200.8

51 47.4 41.4 62.0

86 65.0 51.5 77.3





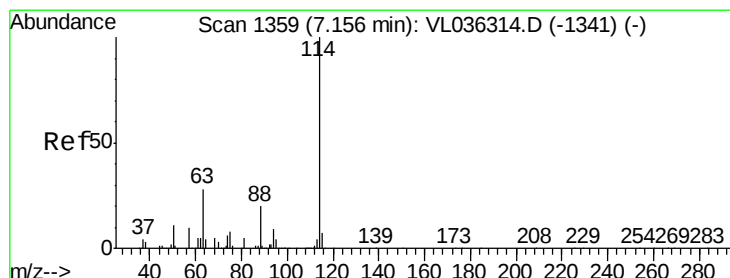
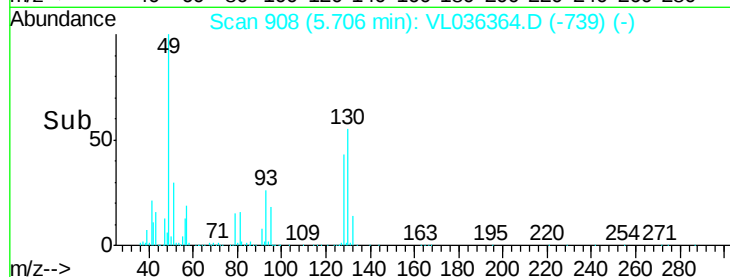
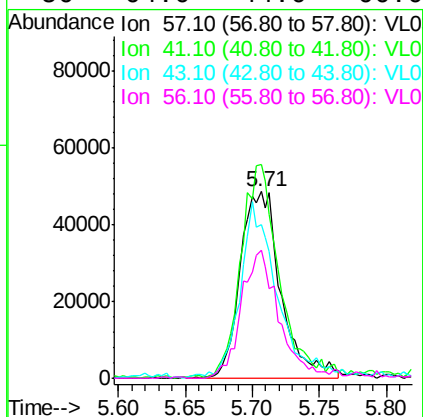
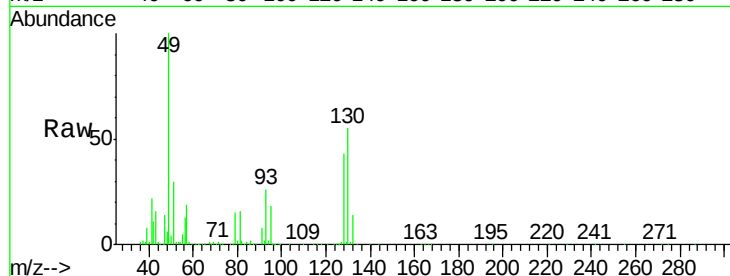
#26
Hexane
Concen: 0.619 ppbv m
RT: 5.71 min Scan# 908
Delta R.T. 0.04 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Instrument :
MSVOA_L
ClientSampled :
NS-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	110.0	81.7	122.5
43	85.5	199.1	298.7#
56	64.0	44.0	66.0

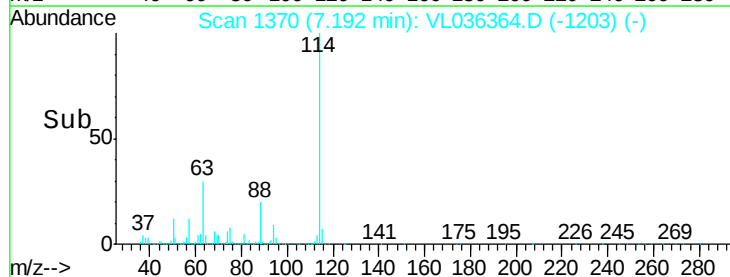
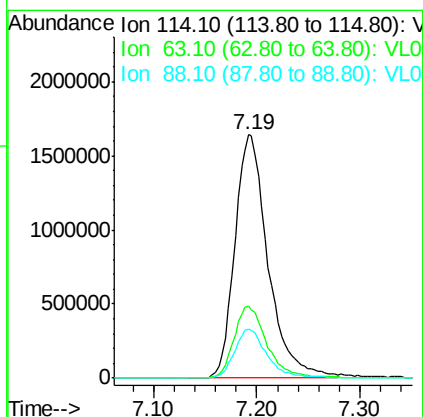
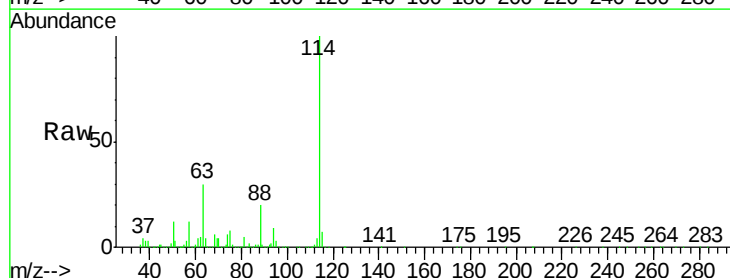
Manual Integrations
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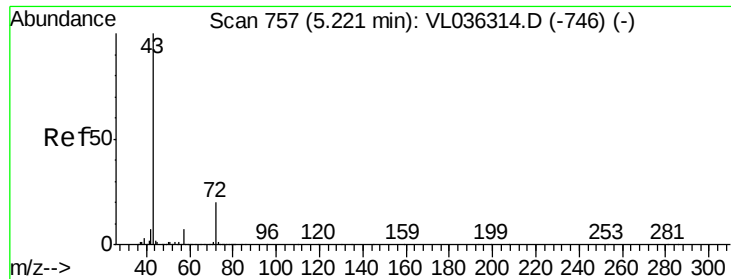
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2/26/2021 4:17:46 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.04 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.5	24.1	36.1
88	19.9	16.0	24.0





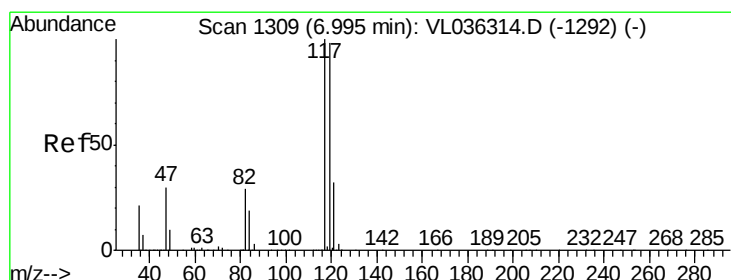
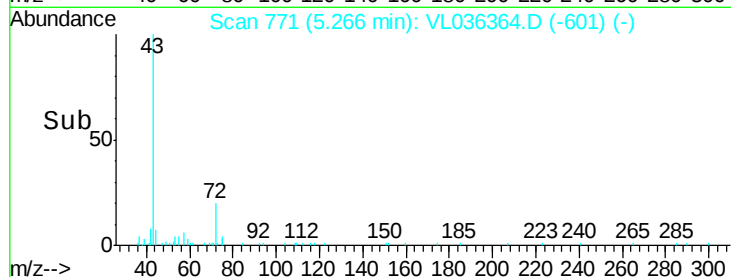
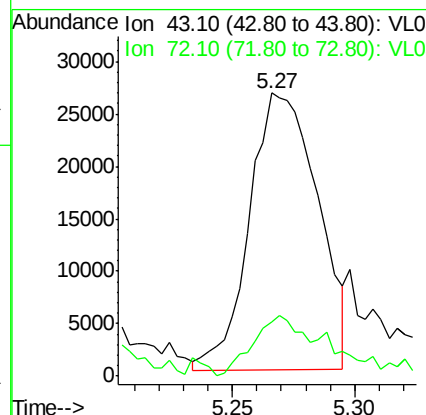
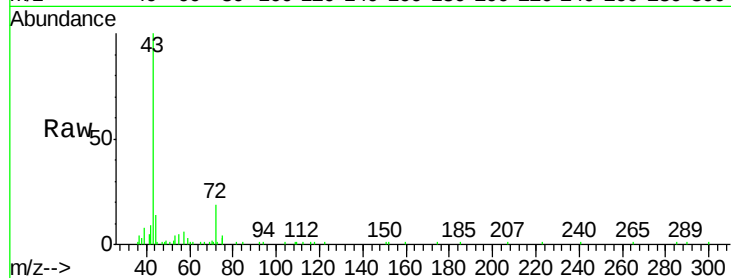
#34
2-Butanone
Concen: 0.209 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.05 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Instrument :
MSVOA_L
ClientSampled :
NS-2

Tot Ion: 43 Resp: 51102
Ion Ratio Lower Upper
43 100
72 29.8 16.7 25.1#

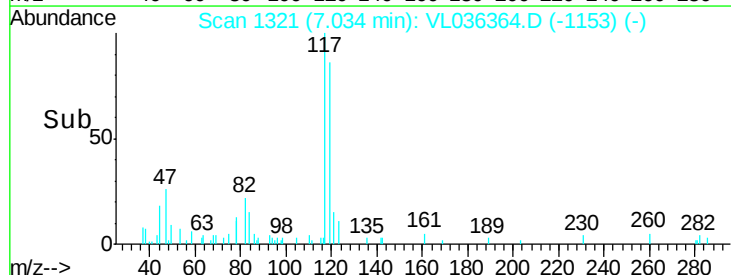
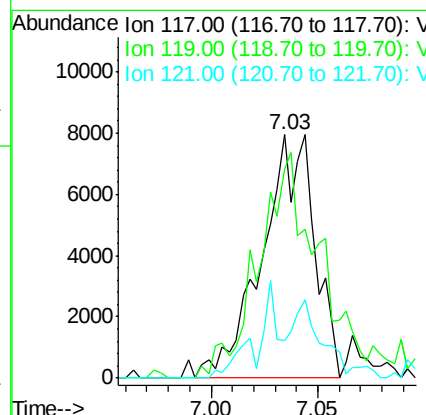
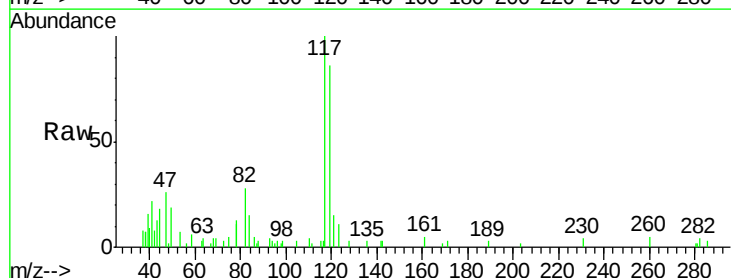
Manual Integrations
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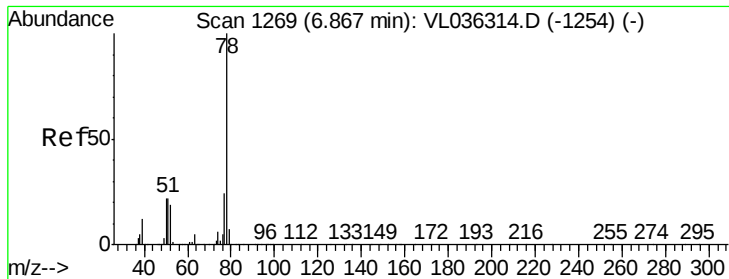
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#35
Carbon Tetrachloride
Concen: 0.055 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. 0.04 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Tgt Ion: 117 Resp: 13591
Ion Ratio Lower Upper
117 100
119 85.9 78.1 117.1
121 15.2 25.8 38.8#





#36

Benzene

Concen: 0.446 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

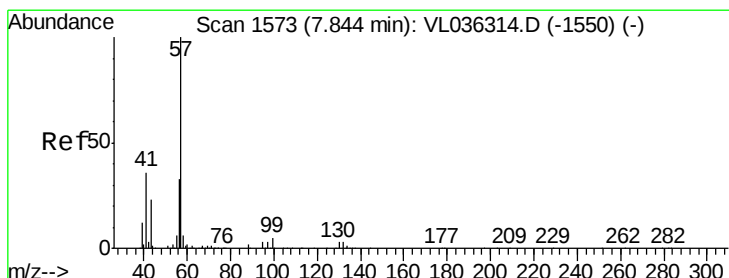
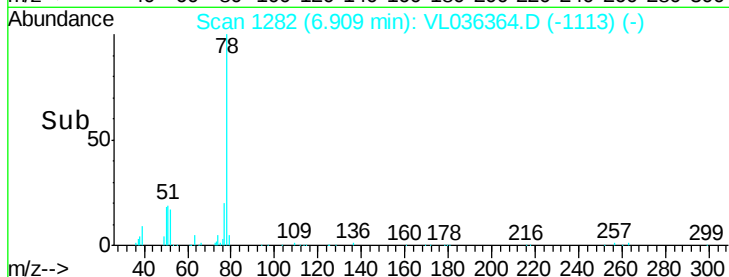
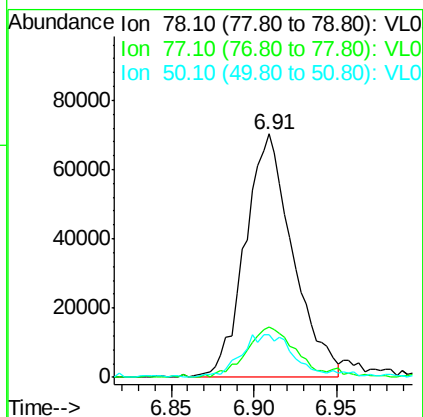
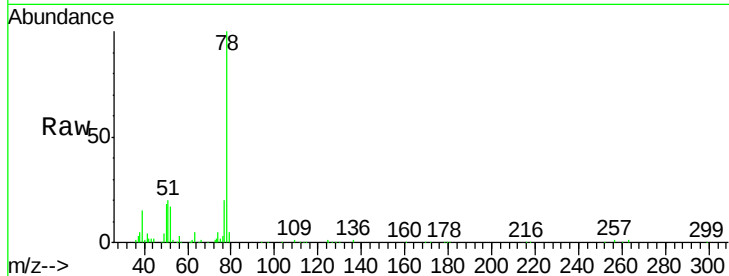
ClientSampleId :

NS-2

Tot Ion:	78	Resp:	139344
Ion	Ratio	Lower	Upper
78	100		
77	19.8	18.9	28.3
50	17.8	17.3	25.9

Manual Integrations
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2/26/2021 4:17:46 PM



#44

2,2,4-Trimethylpentane

Concen: 0.133 ppbv

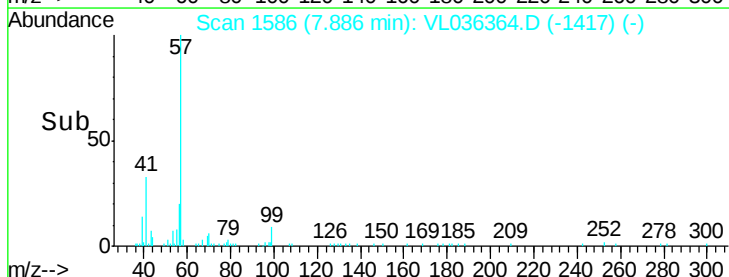
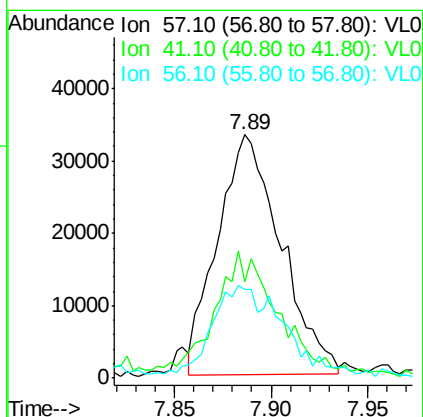
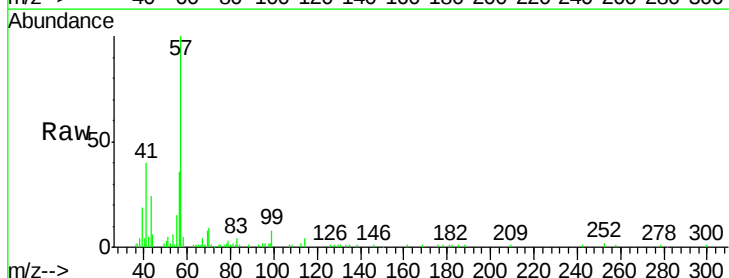
RT: 7.89 min Scan# 1586

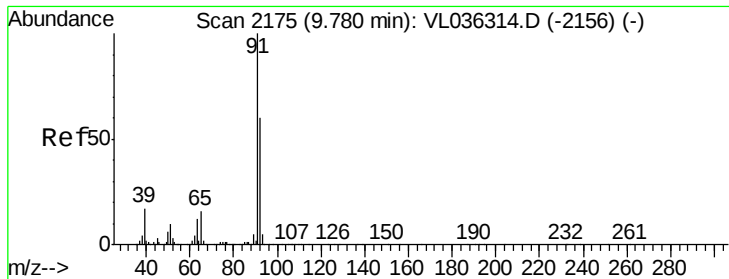
Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Tgt Ion:	57	Resp:	75638
Ion	Ratio	Lower	Upper
57	100		
41	54.7	28.8	43.2#
56	47.5	25.8	38.6#





#53

Toluene

Concen: 0.779 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.05 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

NS-2

Tot Ion: 91 Resp: 263419

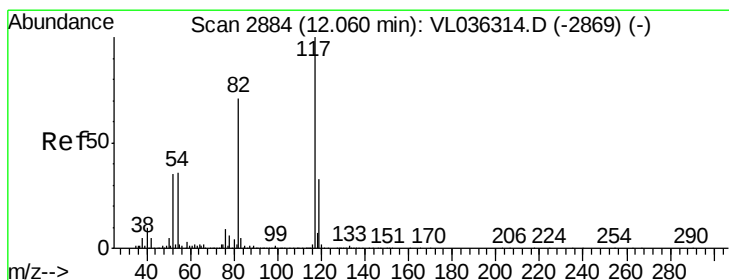
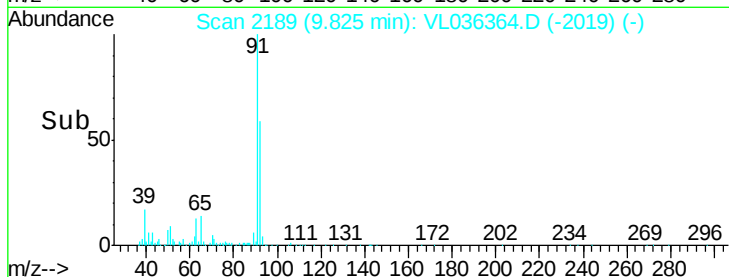
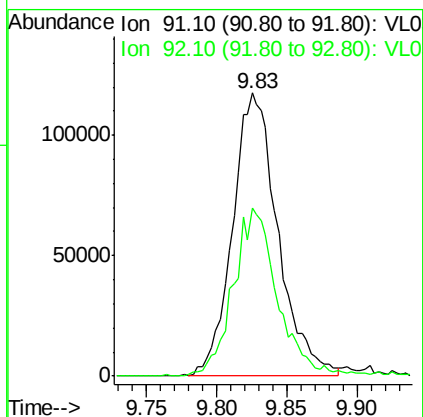
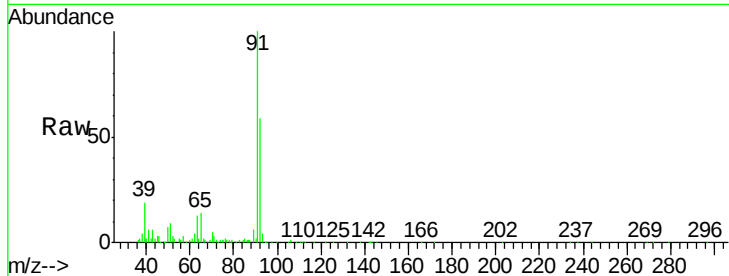
Ion Ratio Lower Upper

91 100

92 58.3 48.6 72.8

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.05 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

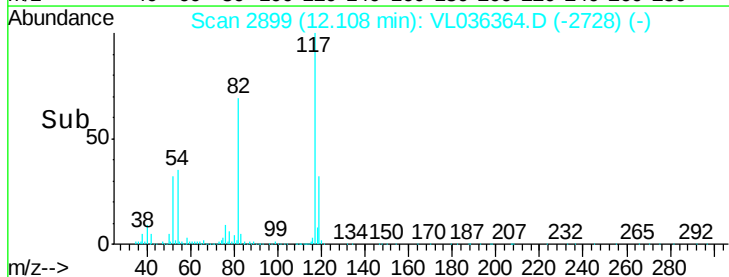
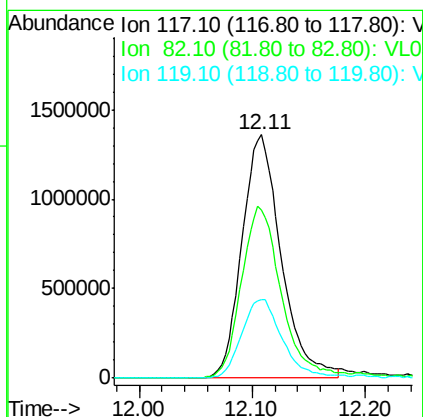
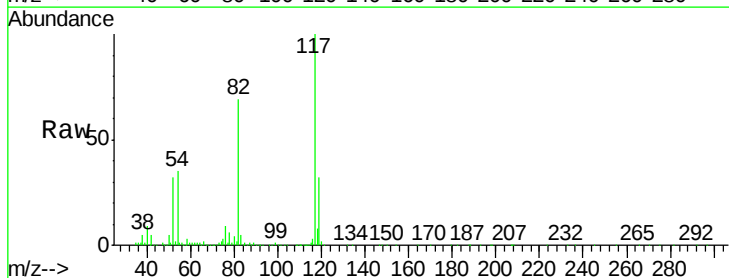
Tgt Ion: 117 Resp: 3278523

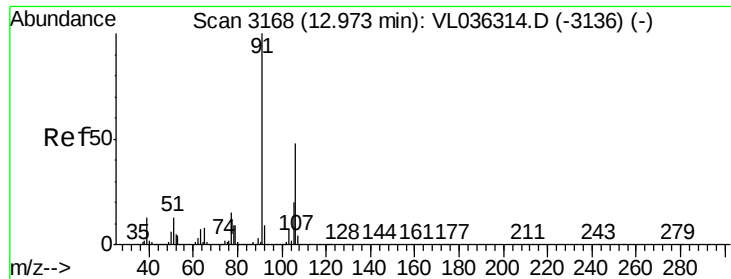
Ion Ratio Lower Upper

117 100

82 74.3 59.1 88.7

119 35.0 46.3 69.5#





#59

m/p-Xylene

Concen: 0.293 ppbv m

RT: 12.98 min Scan# 3171

Delta R.T. 0.01 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampled :

NS-2

Tot Ion: 91 Resp: 115686

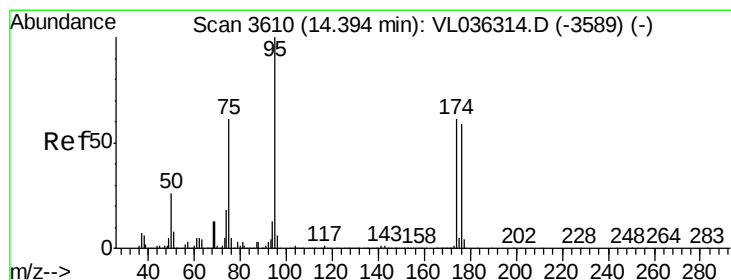
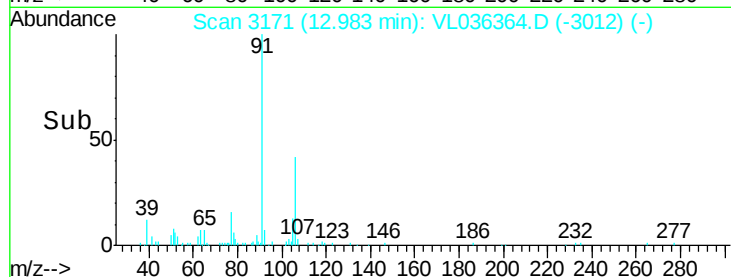
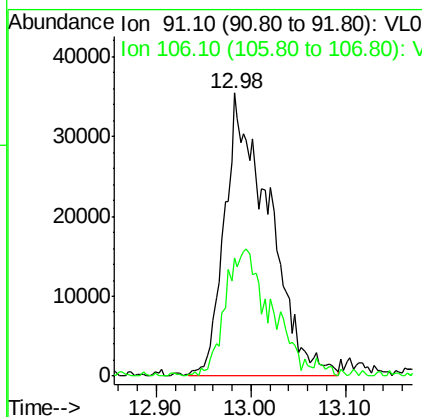
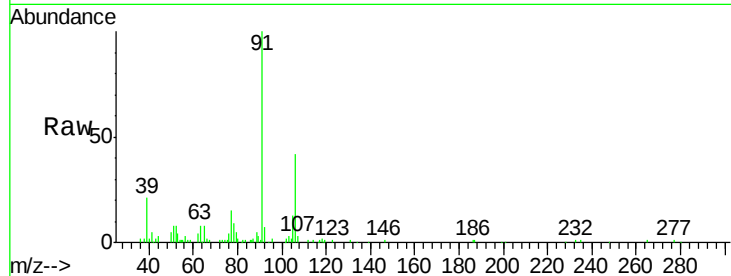
Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.2#

Manual Integrations
APPROVED

MMDadoda
2/26/2021 4:17:46 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.278 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Tgt Ion: 95 Resp: 2772530

Ion Ratio Lower Upper

95 100

174 61.7 49.8 74.6

175 4.4 3.7 5.5

