

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036361.D
 Acq On : 24 Feb 2021 22:02
 Operator : SY/AP
 Sample : M1463-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1

Manual Integrations
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MMDadoda
 2/26/2021 4:17:35 PM

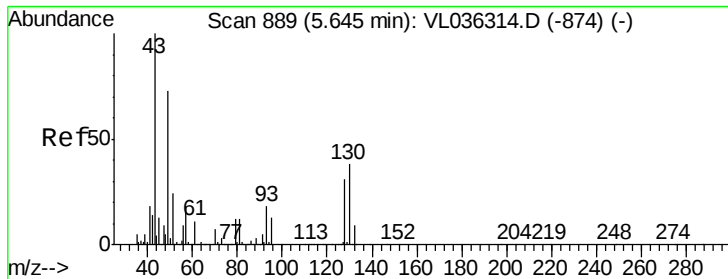
Quant Time: Feb 26 14:16:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1721966	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.19	114	3865099	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	3577542	10.00	ppbv	0.05

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	2918799	9.92	ppbv	0.04	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	52442	0.204	ppbv	89
3) Chlorodifluoromethane	2.99	51	82220	0.384	ppbv #	90
4) Chloromethane	3.15	50	58806	0.569	ppbv	95
9) Propene	3.02	41	568157m	7.122	ppbv	
10) Heptane	8.14	43	256358	1.090	ppbv	100
11) Trichlorofluoromethane	3.96	101	51351	0.204	ppbv	85
13) Ethanol	3.64	45	5742961	383.292	ppbv	89
15) Acetone	3.86	43	6728167	31.965	ppbv	100
17) tert-Butyl alcohol	4.33	59	124606m	0.763	ppbv	
19) Isopropyl Alcohol	4.00	45	4925465	42.237	ppbv #	98
20) Methylene Chloride	4.36	84	3690844	54.350	ppbv	94
26) Hexane	5.70	57	1210240	7.249	ppbv #	41
27) Carbon Disulfide	4.56	76	142007	0.925	ppbv	94
28) Methyl tert-Butyl Ether	5.05	73	61639m	0.283	ppbv	
29) Chloroform	5.77	83	3397335	12.630	ppbv	99
30) Cyclohexane	7.15	84	43321	0.312	ppbv #	83
34) 2-Butanone	5.27	43	162752	0.634	ppbv	96
35) Carbon Tetrachloride	7.03	117	22402m	0.086	ppbv	
36) Benzene	6.91	78	147428	0.449	ppbv	94
42) Bromodichloromethane	7.82	83	78541m	0.289	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	1532459	2.567	ppbv	91
52) Tetrachloroethene	11.24	164	8576m	0.071	ppbv	
53) Toluene	9.82	91	2287768	6.433	ppbv	100
58) Ethyl Benzene	12.73	91	555588	1.134	ppbv	92
59) m/p-Xylene	12.99	91	1463072	3.400	ppbv	96
60) o-Xylene	13.71	91	532974	1.295	ppbv	99
65) tert-Butylbenzene	16.78	119	58522m	0.111	ppbv	
72) 4-Ethyltoluene	15.86	105	162935	0.356	ppbv	95
73) 1,3,5-Trimethylbenzene	16.02	105	121092m	0.273	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	541500m	1.195	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Instrument :

MSVOA_L

ClientSampleId :

NS-1

Tot Ion: 49 Resp: 1721966

Ion Ratio Lower Upper

49 100

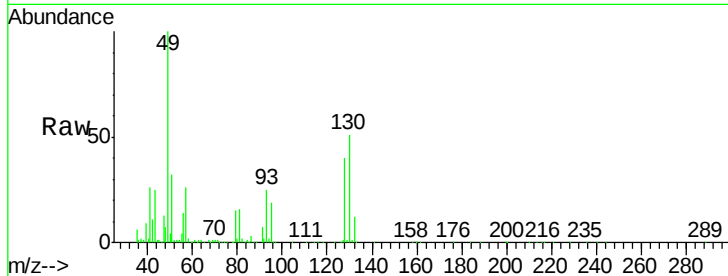
128 42.7 20.8 62.5

130 54.4 26.7 80.1

Manual Integrations
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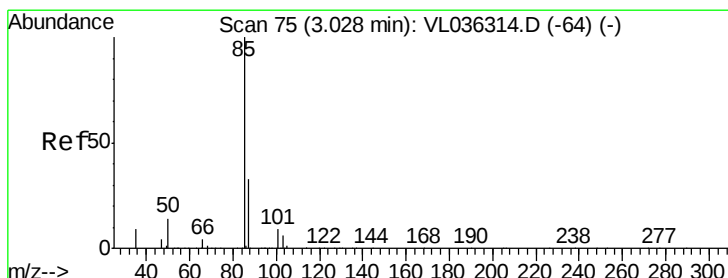
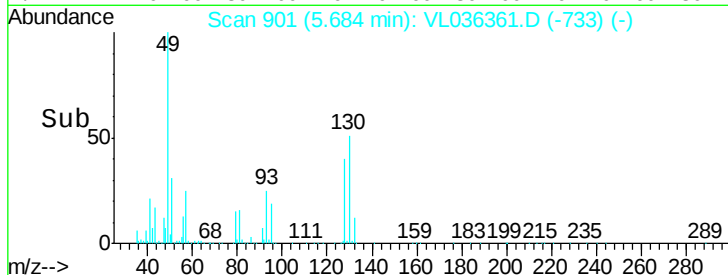
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.68

Time-->



#2

Dichlorodifluoromethane

Concen: 0.204 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.03 min

Lab File: VL036361.D

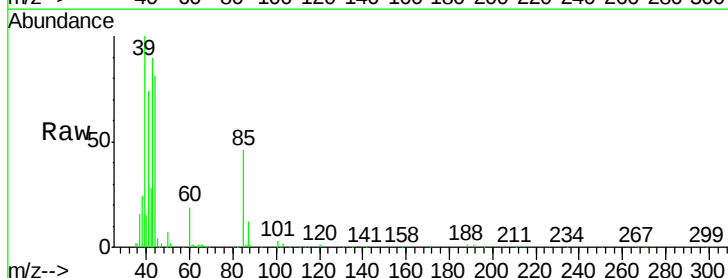
Acq: 24 Feb 2021 22:02

Tgt Ion: 85 Resp: 52442

Ion Ratio Lower Upper

85 100

87 26.7 26.5 39.7

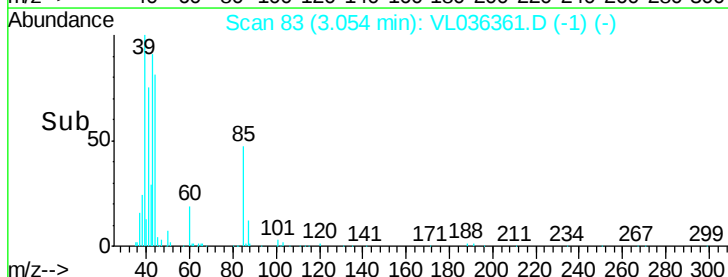


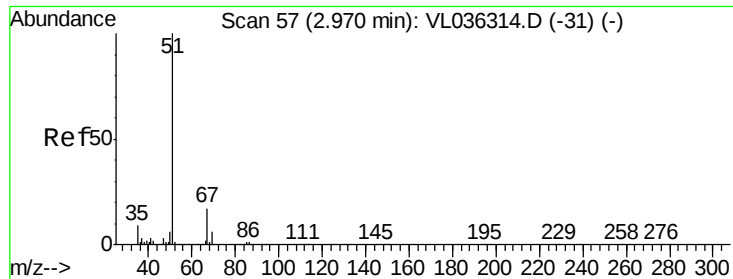
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





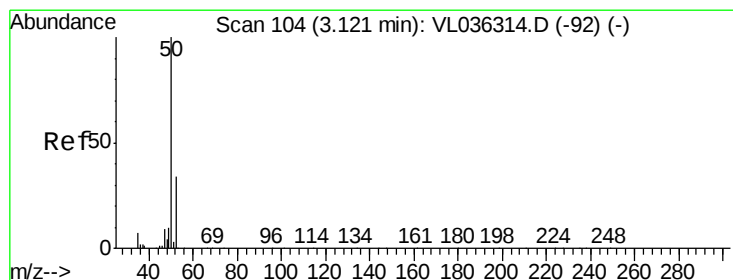
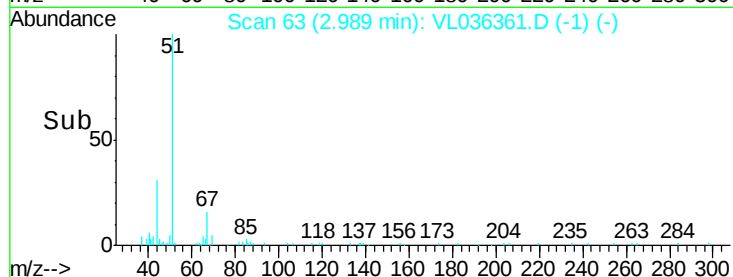
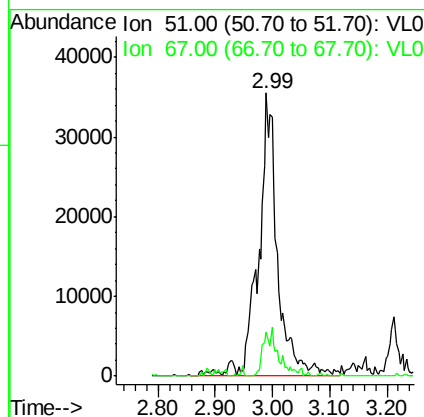
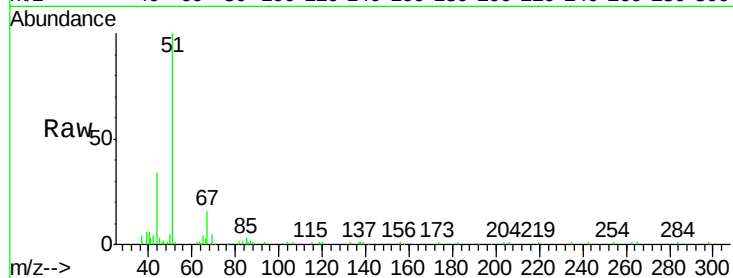
#3
 Chlorodifluoromethane
 Concen: 0.384 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. 0.02 min
 Lab File: VL036361.D
 Acq: 24 Feb 2021 22:02

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1

Tot Ion: 51 Resp: 82220
 Ion Ratio Lower Upper
 51 100
 67 13.8 14.7 22.1#

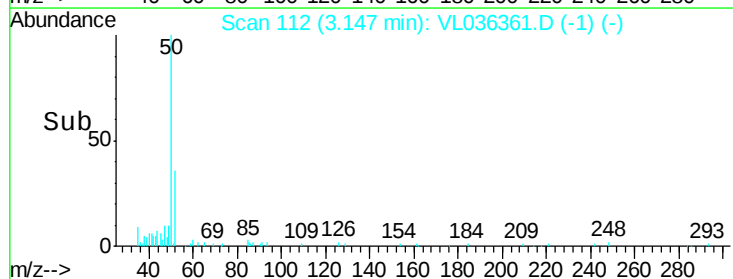
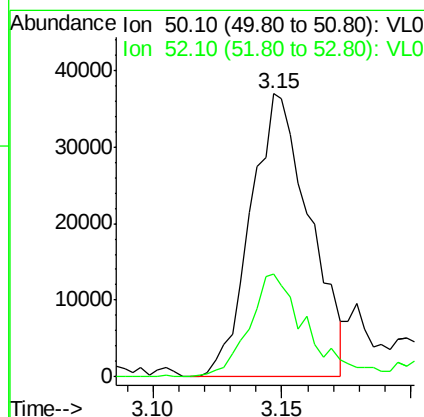
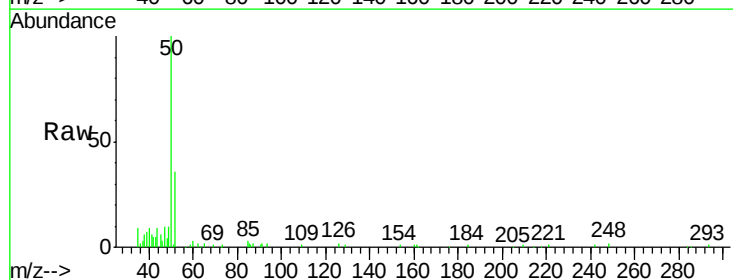
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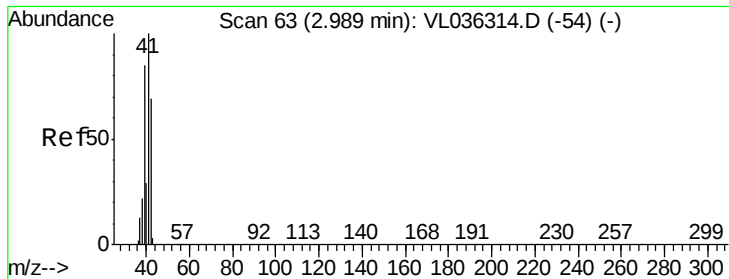
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#4
 Chloromethane
 Concen: 0.569 ppbv
 RT: 3.15 min Scan# 112
 Delta R.T. 0.03 min
 Lab File: VL036361.D
 Acq: 24 Feb 2021 22:02

Tgt Ion: 50 Resp: 58806
 Ion Ratio Lower Upper
 50 100
 52 36.4 27.0 40.4





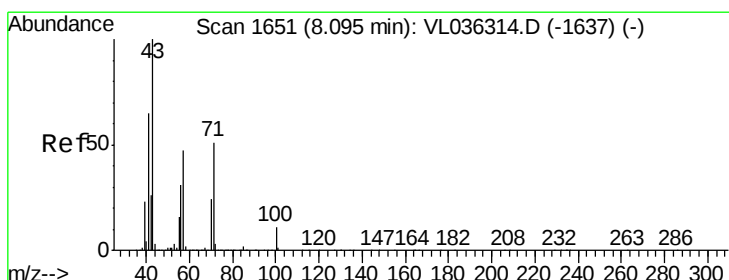
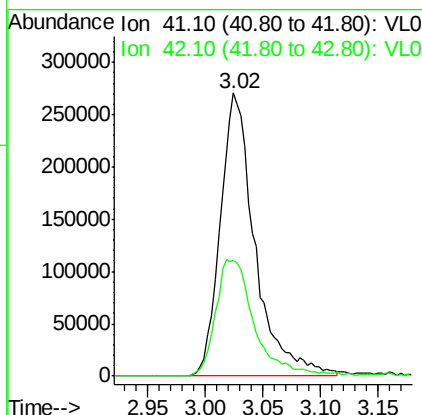
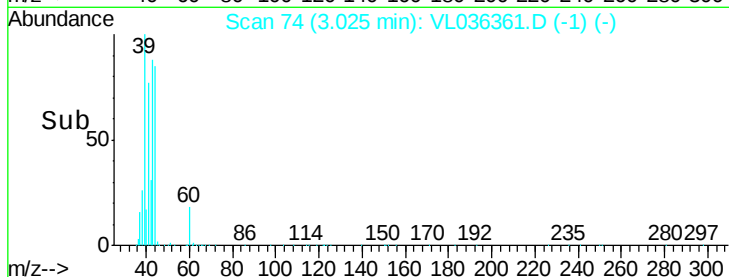
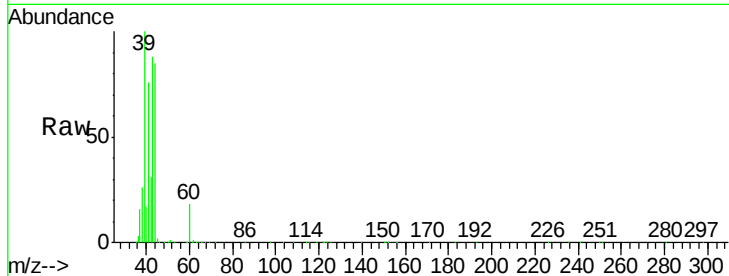
#9
 Propene
 Concen: 7.122 ppbv m
 RT: 3.02 min Scan# 74
 Delta R.T. 0.04 min
 Lab File: VL036361.D
 Acq: 24 Feb 2021 22:02

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1

Tot Ion: 41 Resp: 568157
 Ion Ratio Lower Upper
 41 100
 42 56.0 56.2 84.2#

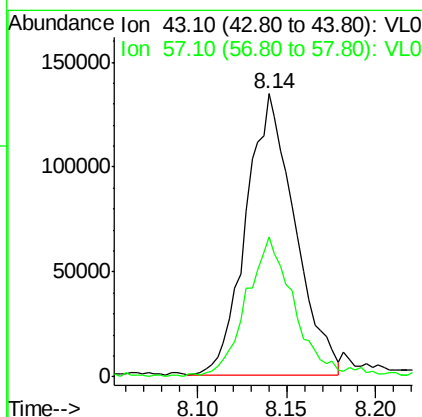
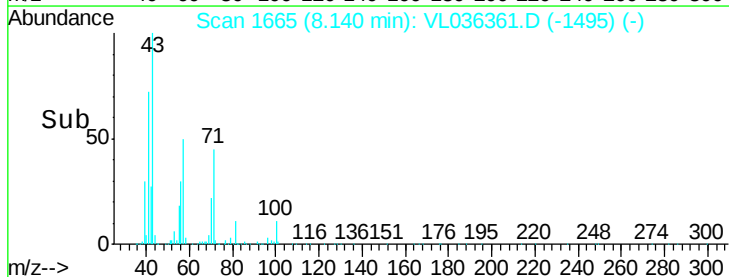
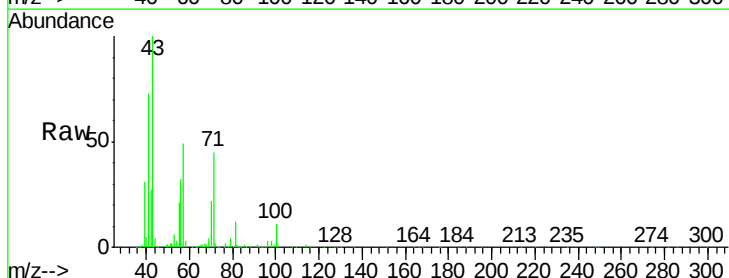
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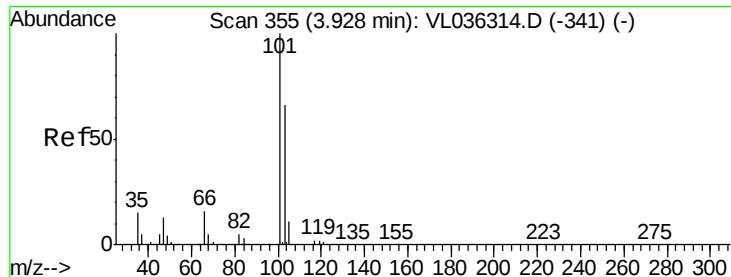
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#10
 Heptane
 Concen: 1.090 ppbv
 RT: 8.14 min Scan# 1665
 Delta R.T. 0.05 min
 Lab File: VL036361.D
 Acq: 24 Feb 2021 22:02

Tgt Ion: 43 Resp: 256358
 Ion Ratio Lower Upper
 43 100
 57 49.3 39.4 59.2





#11

Trichlorofluoromethane

Concen: 0.204 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Instrument :

MSVOA_L

ClientSampled :

NS-1

Tot Ion:101 Resp: 51351

Ion Ratio Lower Upper

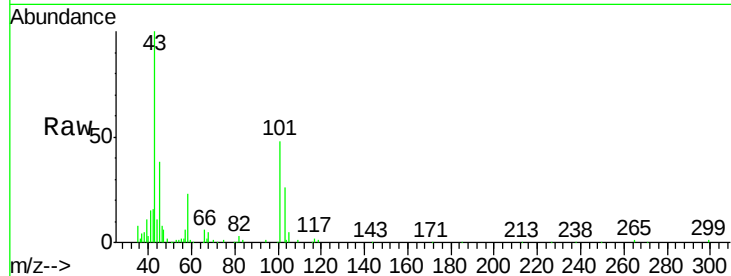
101 100

103 54.3 52.9 79.3

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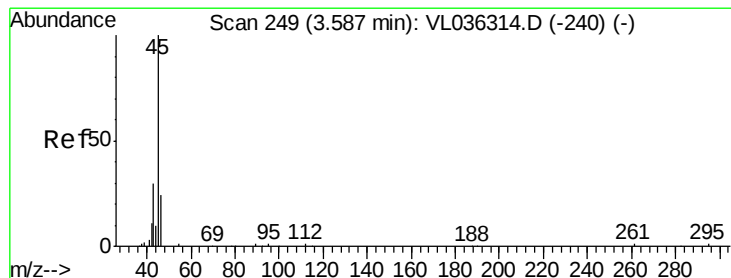
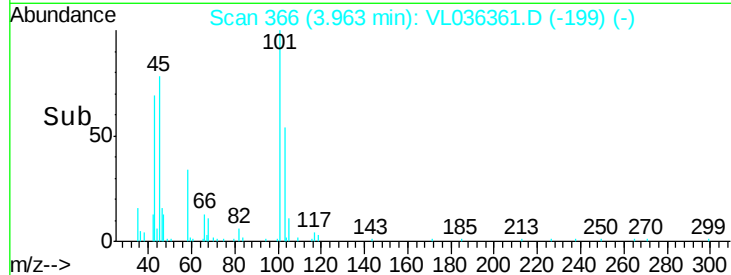
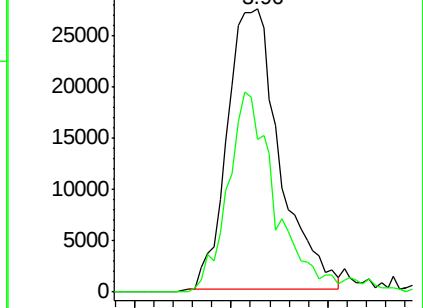
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 383.292 ppbv

RT: 3.64 min Scan# 264

Delta R.T. 0.05 min

Lab File: VL036361.D

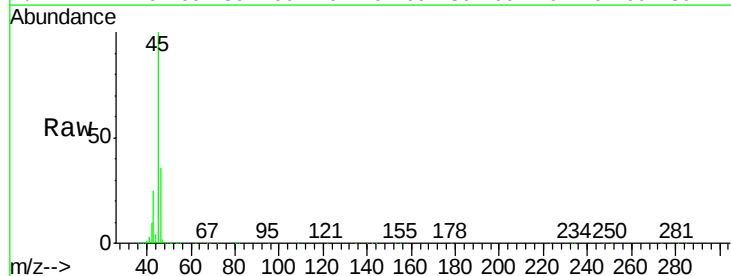
Acq: 24 Feb 2021 22:02

Tgt Ion: 45 Resp: 5742961

Ion Ratio Lower Upper

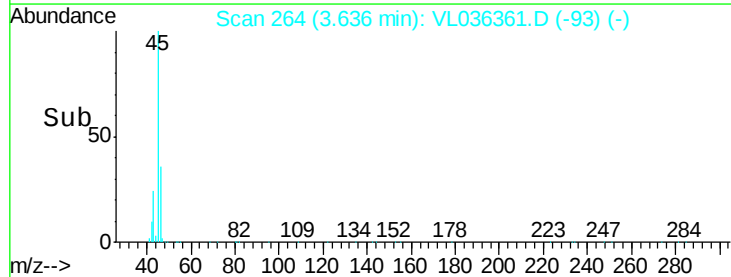
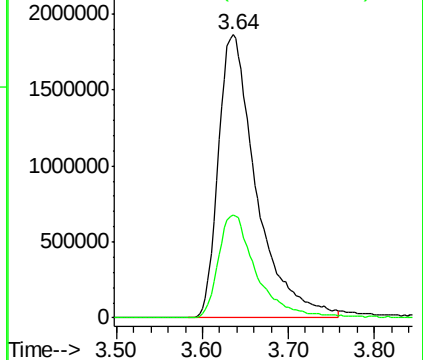
45 100

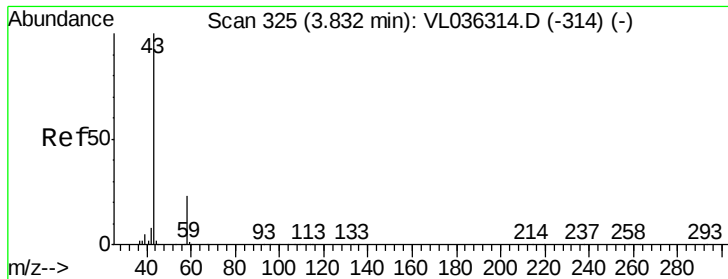
46 37.0 17.7 70.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





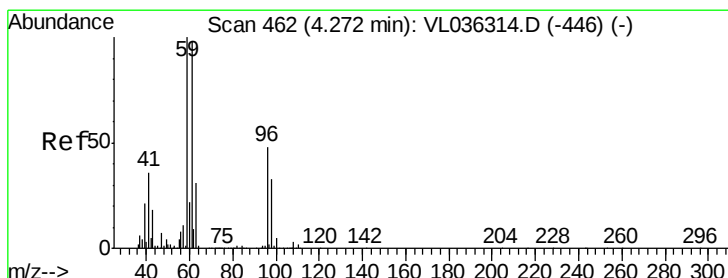
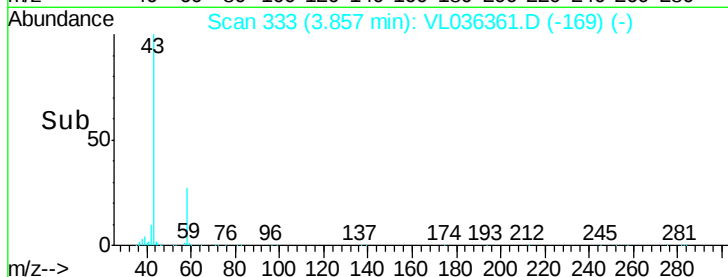
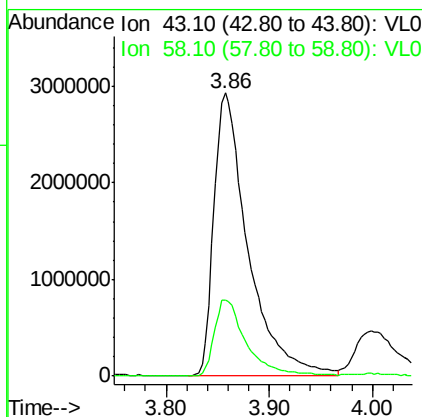
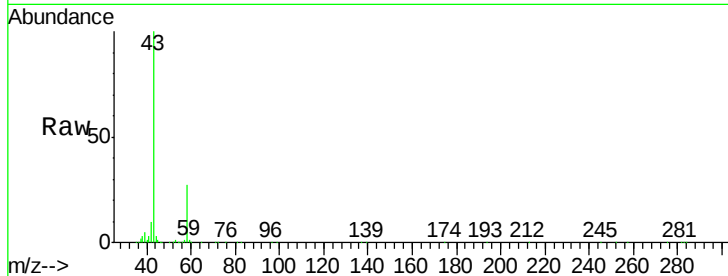
#15
Acetone
Concen: 31.965 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.03 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Instrument :
MSVOA_L
ClientSampleId :
NS-1

Tot Ion: 43 Resp: 6728167
Ion Ratio Lower Upper
43 100
58 25.6 20.3 30.5

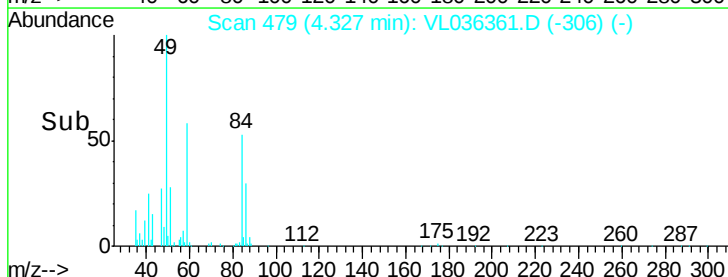
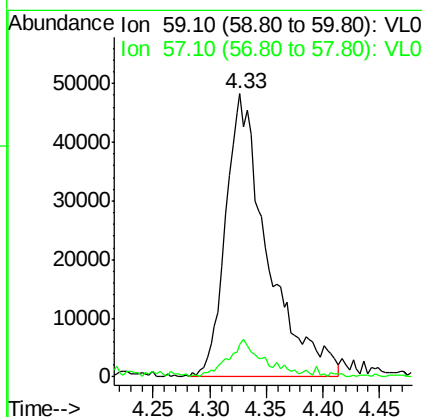
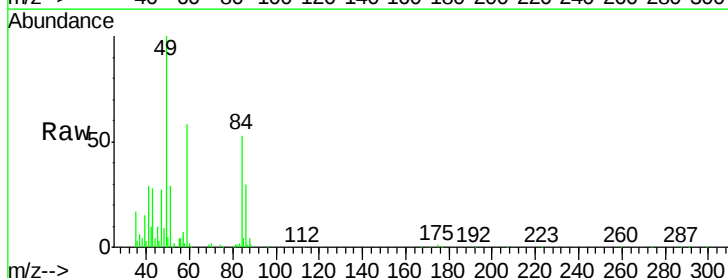
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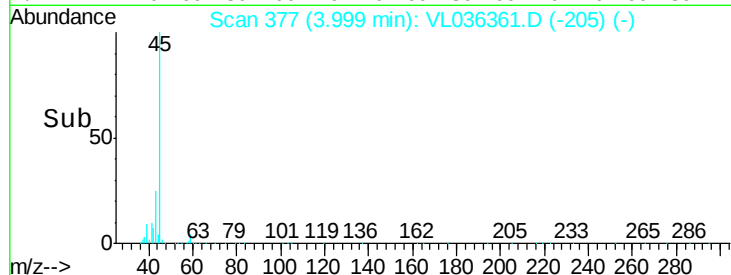
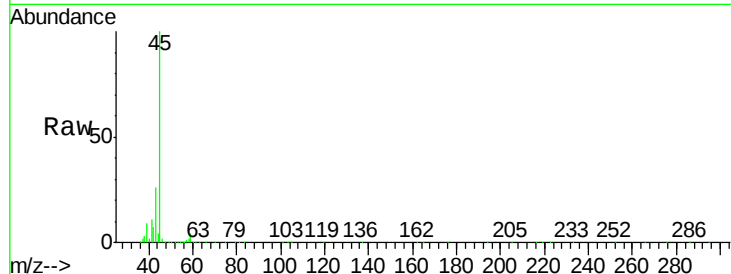
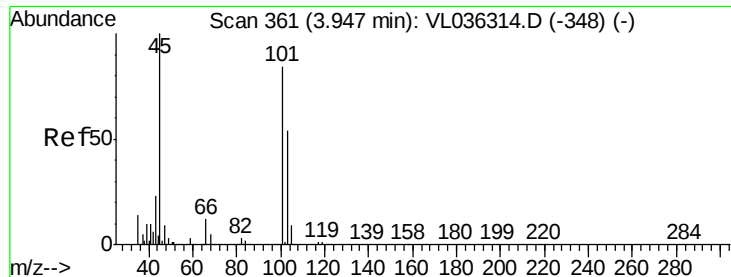
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#17
tert-Butyl alcohol
Concen: 0.763 ppbv m
RT: 4.33 min Scan# 479
Delta R.T. 0.05 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Tgt Ion: 59 Resp: 124606
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#





#19

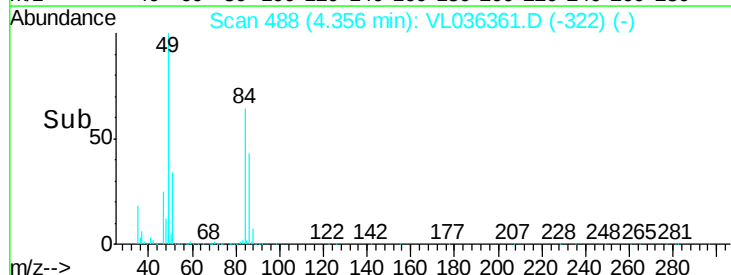
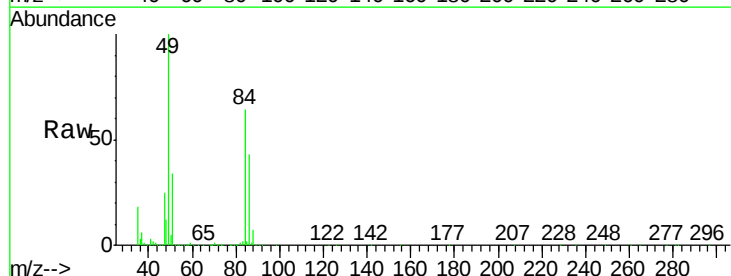
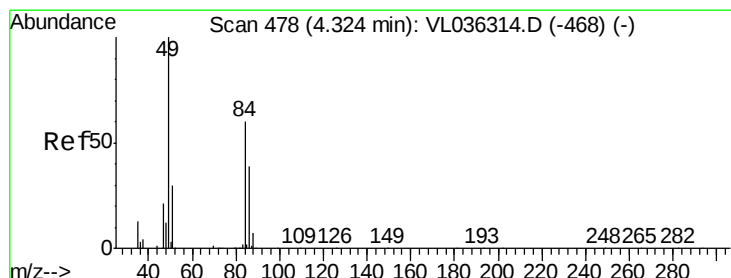
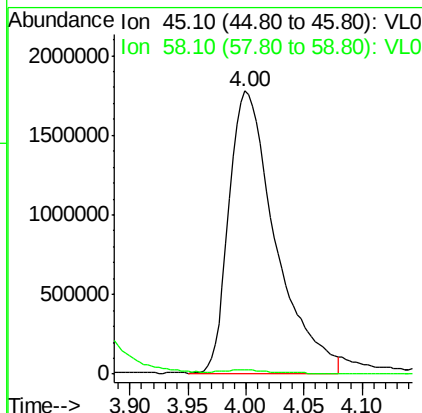
Isopropyl Alcohol
Concen: 42.237 ppbv
RT: 4.00 min Scan# 377
Delta R.T. 0.05 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Tot Ion: 45 Resp: 4925465
Ion Ratio Lower Upper
45 100
58 1.9 1.9 2.9#

Instrument :
MSVOA_L
ClientSampleId :
NS-1

Manual Integrations
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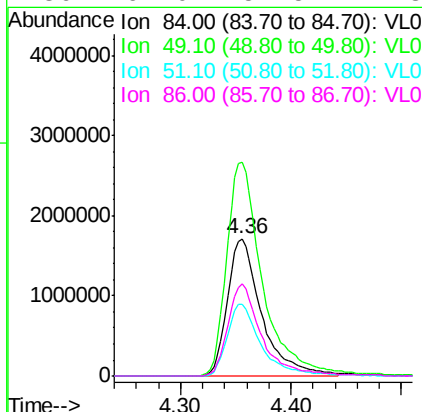
MMDadoda
2/26/2021 4:17:35 PM

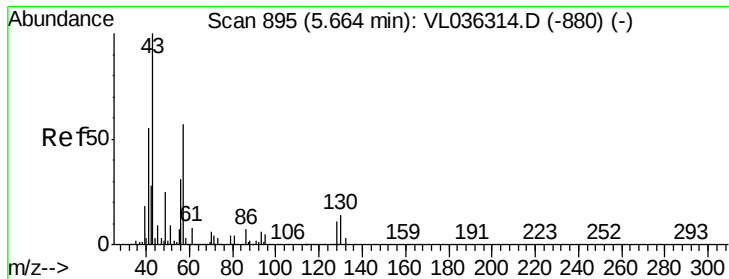


#20

Methylene Chloride
Concen: 54.350 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.03 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Tgt Ion: 84 Resp: 3690844
Ion Ratio Lower Upper
84 100
49 155.6 133.8 200.8
51 52.6 41.4 62.0
86 67.0 51.5 77.3





#26

Hexane

Concen: 7.249 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Instrument :

MSVOA_L

ClientSampleId :

NS-1

Tot Ion: 57 Resp: 1210240

Ion Ratio Lower Upper

57 100

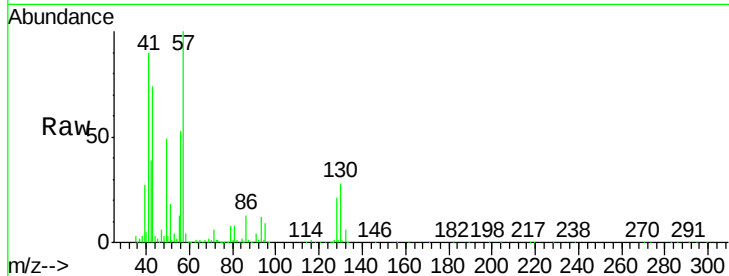
41 99.9 81.7 122.5

43 84.2 199.1 298.7#

56 57.2 44.0 66.0

Manual Integrations
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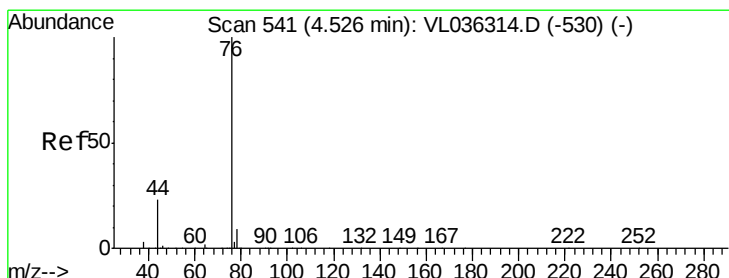
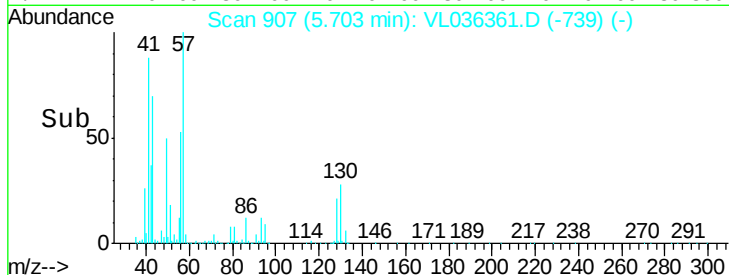
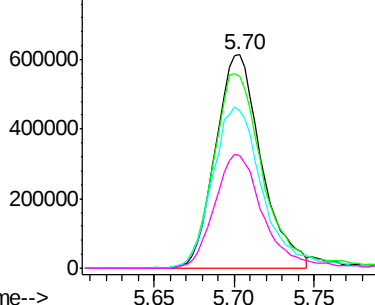


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.925 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

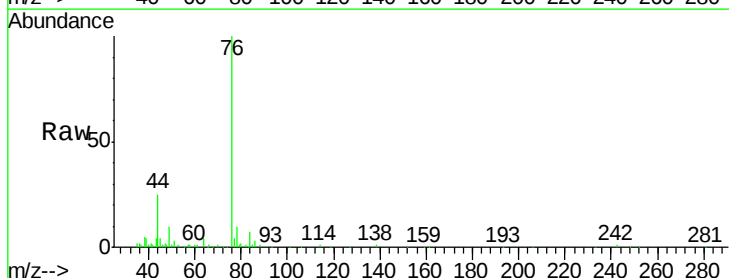
Tgt Ion: 76 Resp: 142007

Ion Ratio Lower Upper

76 100

44 27.2 18.4 27.6

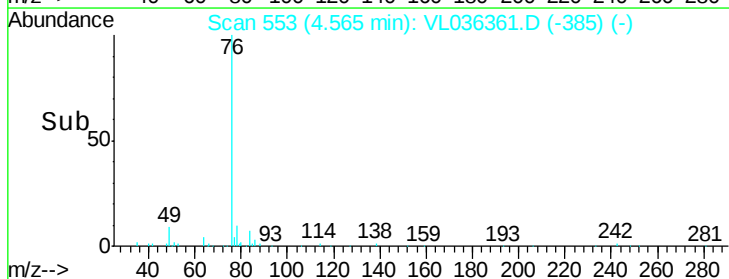
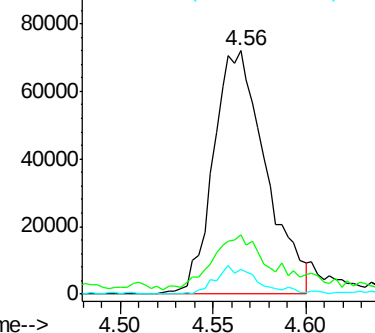
78 9.9 8.0 12.0

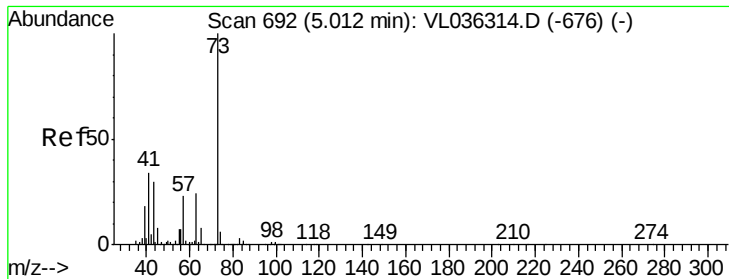


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#28

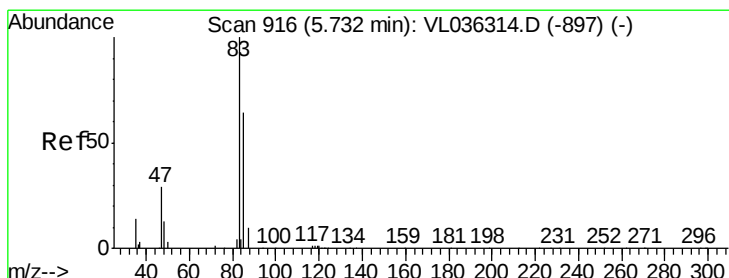
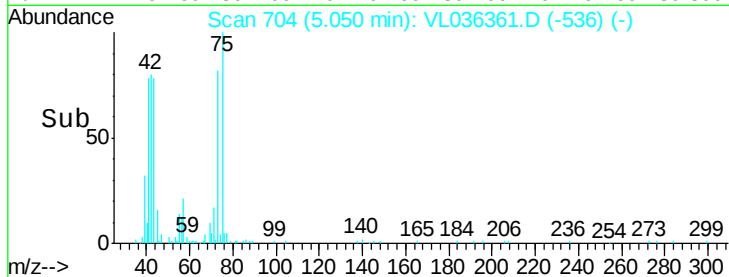
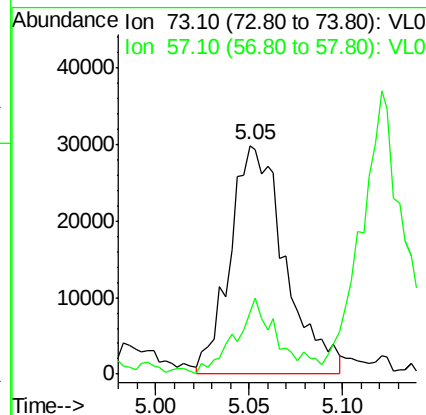
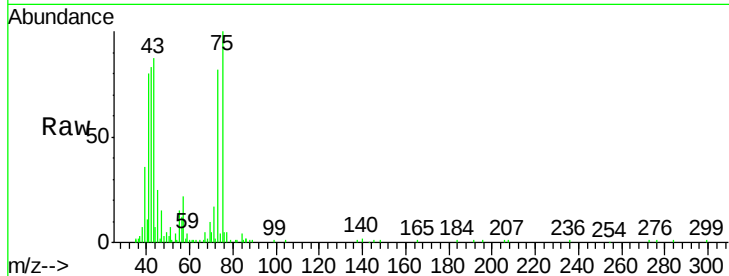
Methvl tert-Butvl Ether
 Concen: 0.283 ppbv m
 RT: 5.05 min Scan# 704
 Delta R.T. 0.04 min
 Lab File: VL036361.D
 Acq: 24 Feb 2021 22:02

Instrument :
 MSVOA_L
 ClientSampled :
 NS-1

Tot Ion: 73 Resp: 61639
 Ion Ratio Lower Upper
 73 100
 57 23.7 19.2 28.8

Manual Integrations
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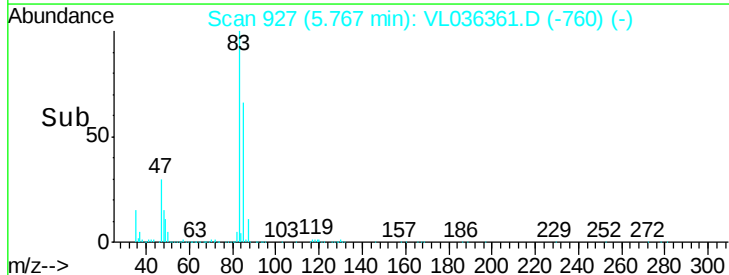
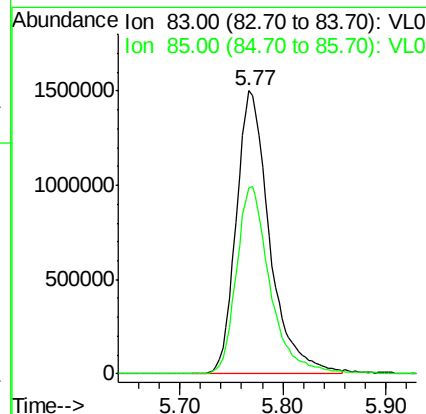
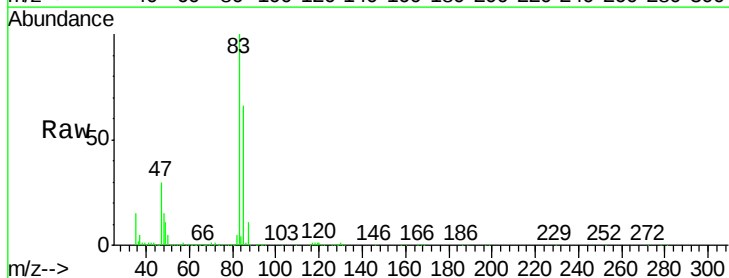
MMDadoda
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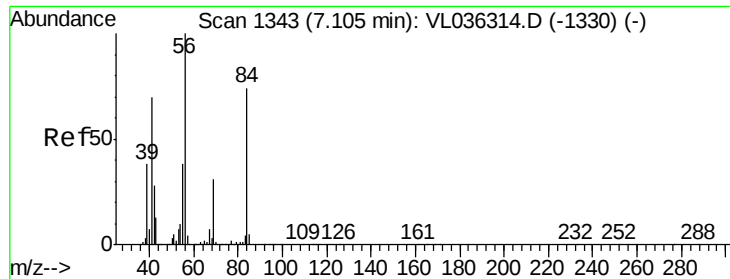


#29

Chloroform
 Concen: 12.630 ppbv
 RT: 5.77 min Scan# 927
 Delta R.T. 0.04 min
 Lab File: VL036361.D
 Acq: 24 Feb 2021 22:02

Tgt Ion: 83 Resp: 3397335
 Ion Ratio Lower Upper
 83 100
 85 65.5 51.4 77.2





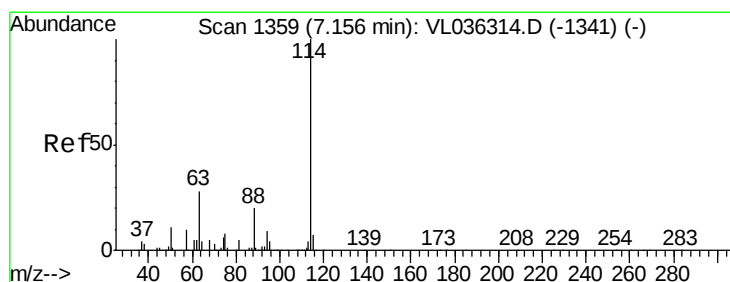
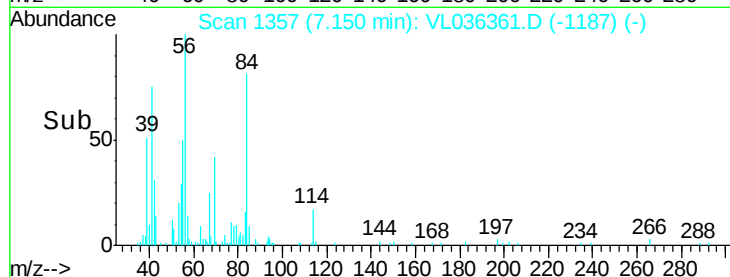
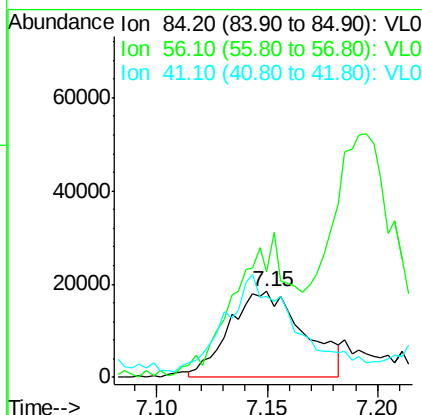
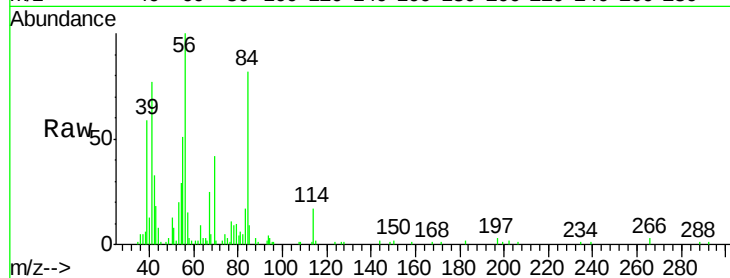
#30
Cvclohexane
Concen: 0.312 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.05 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Instrument :
MSVOA_L
ClientSampleId :
NS-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	115.9	120.2	180.4#
41	101.3	79.7	119.5

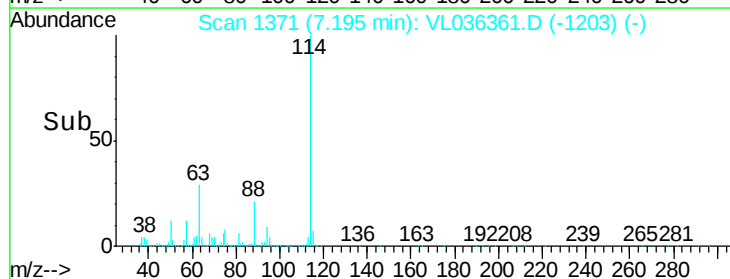
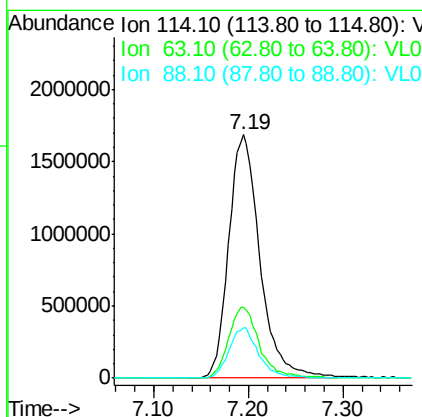
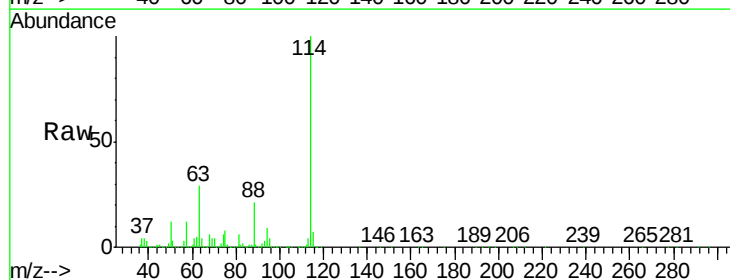
Manual Integrations
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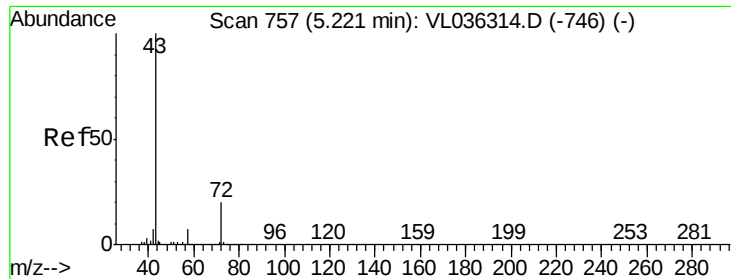
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. 0.04 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.1	24.1	36.1
88	19.9	16.0	24.0





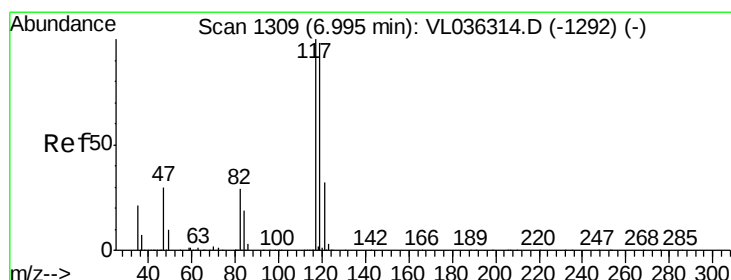
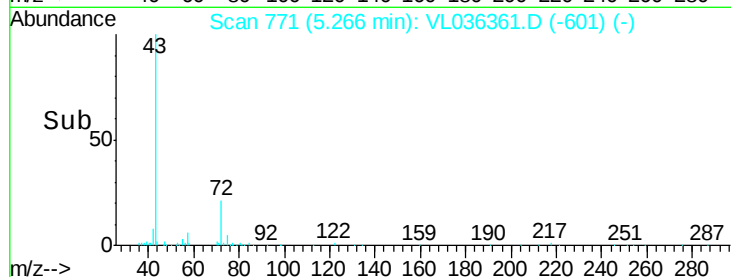
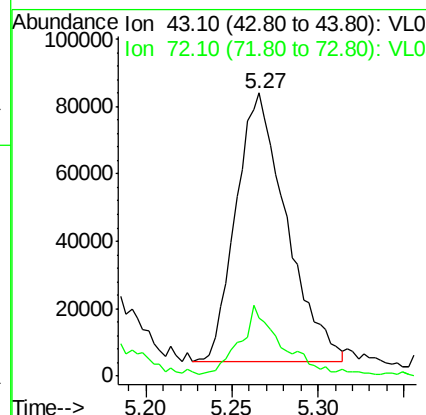
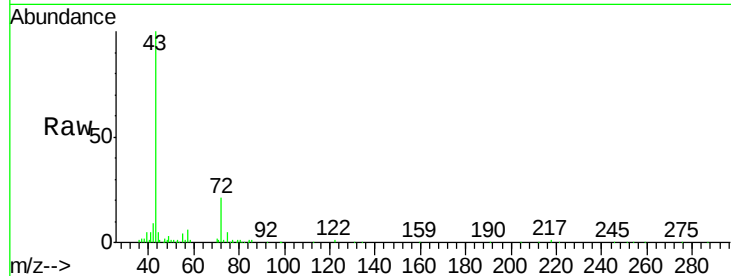
#34
2-Butanone
Concen: 0.634 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.05 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Instrument :
MSVOA_L
ClientSampleId :
NS-1

Tot Ion	43	Resp	162752
Ion Ratio	Lower	Upper	
43	100		
72	23.0	16.7	25.1

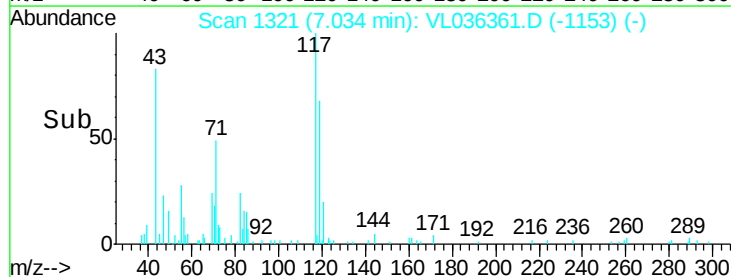
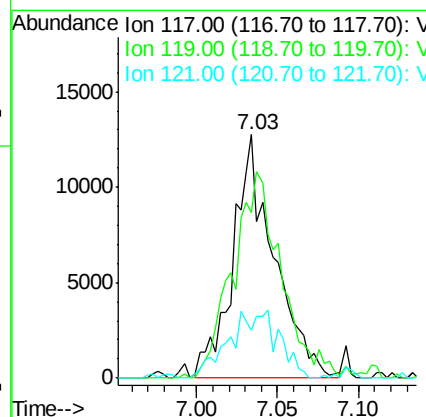
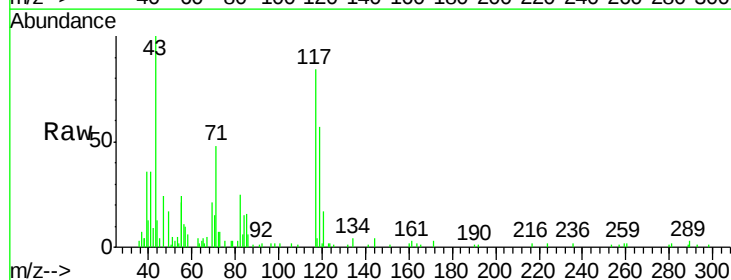
Manual Integrations
APPROVED

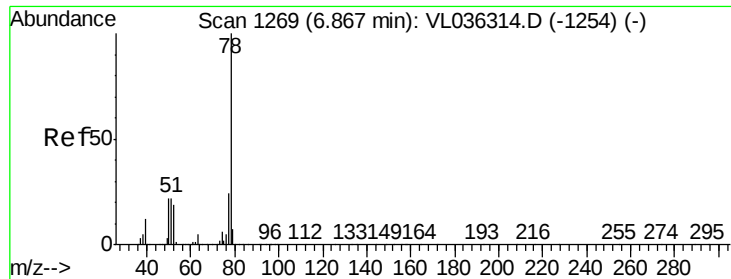
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#35
Carbon Tetrachloride
Concen: 0.086 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. 0.04 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Tgt Ion	117	Resp	22402
Ion Ratio	Lower	Upper	
117	100		
119	68.0	78.1	117.1#
121	19.9	25.8	38.8#





#36

Benzene

Concen: 0.449 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Instrument :

MSVOA_L

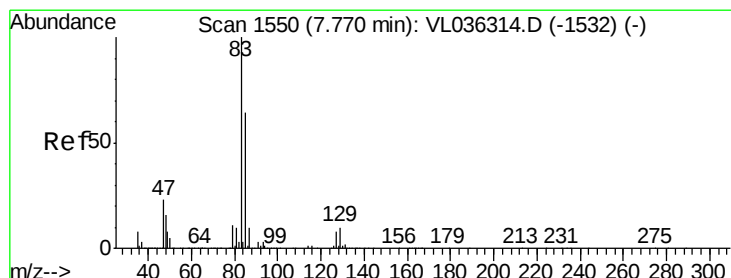
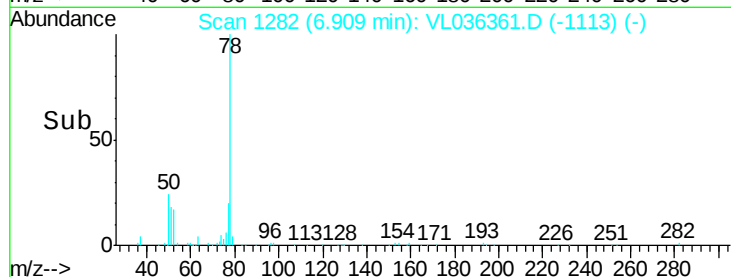
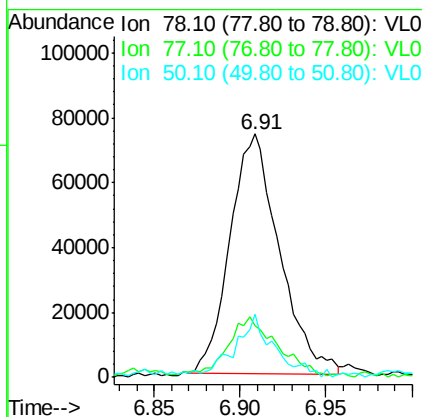
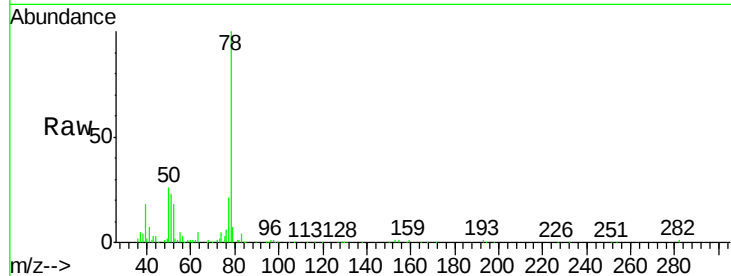
ClientSampleId :

NS-1

Tot Ion:	78	Resp:	147428
Ion	Ratio	Lower	Upper
78	100		
77	20.8	18.9	28.3
50	25.0	17.3	25.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.289 ppbv m

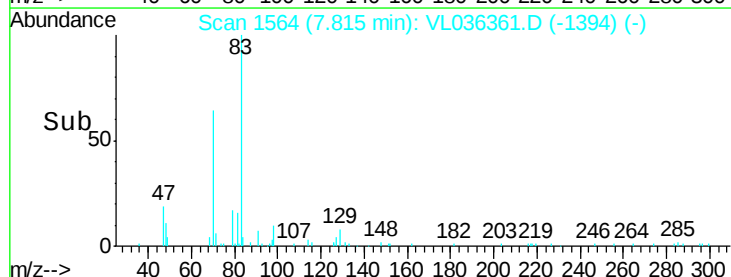
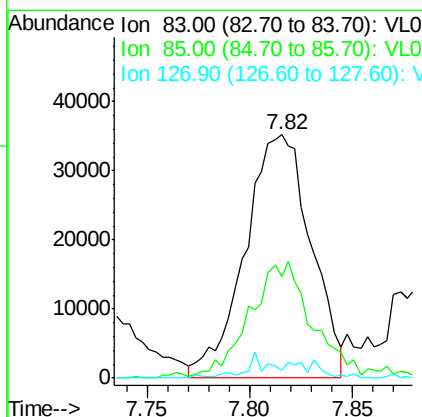
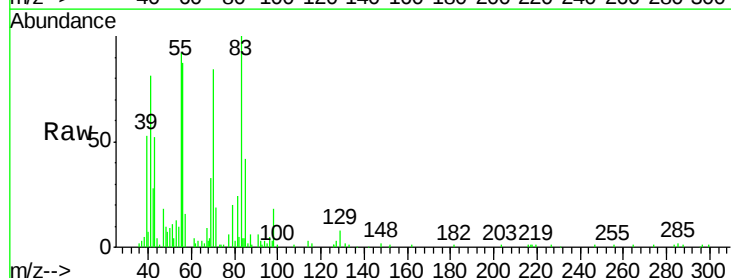
RT: 7.82 min Scan# 1564

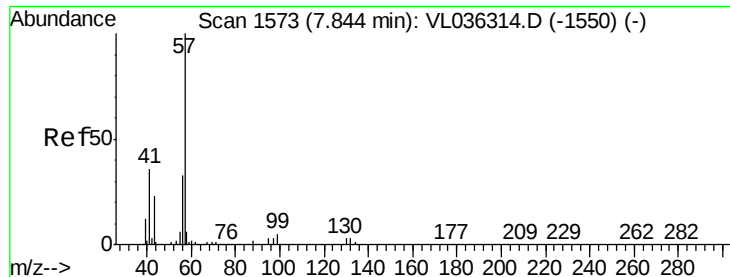
Delta R.T. 0.05 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Tgt Ion:	83	Resp:	78541
Ion	Ratio	Lower	Upper
83	100		
85	41.7	51.1	76.7#
127	3.3	6.3	9.5#





#44

2,2,4-Trimethylpentane

Concen: 2.567 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Instrument :

MSVOA_L

ClientSampleId :

NS-1

Tot Ion: 57 Resp: 1532459

Ion Ratio Lower Upper

57 100

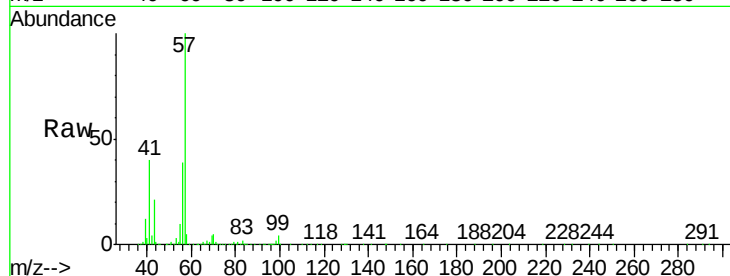
41 40.9 28.8 43.2

56 38.0 25.8 38.6

Manual Integrations
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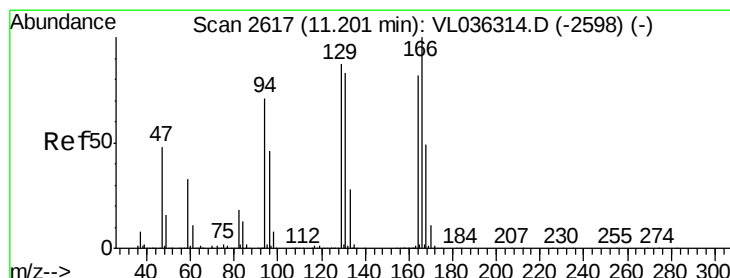
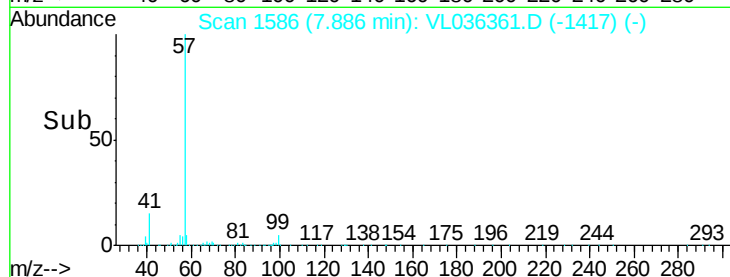
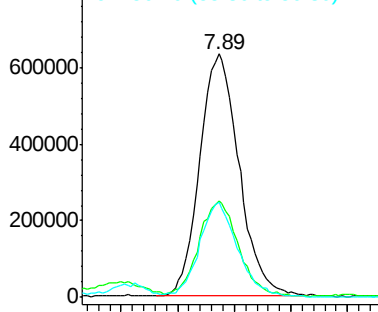


Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 0.071 ppbv m

RT: 11.24 min Scan# 2628

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Tgt Ion: 164 Resp: 8576

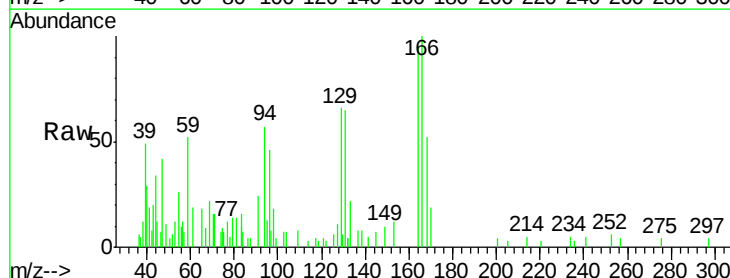
Ion Ratio Lower Upper

164 100

166 105.7 97.8 146.8

129 69.7 84.9 127.3#

131 68.9 81.4 122.2#



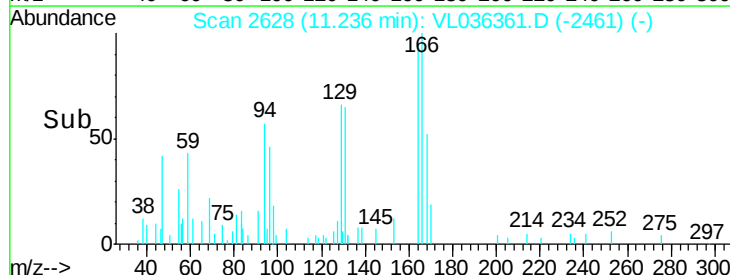
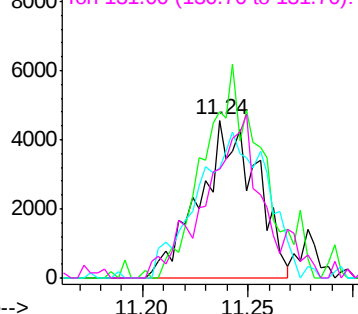
Abundance

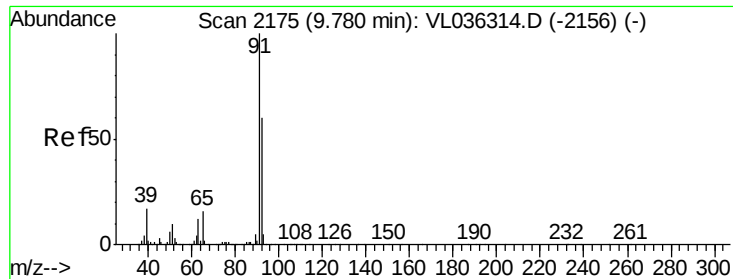
Ion 163.90 (163.60 to 164.60): V

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





#53

Toluene

Concen: 6.433 ppbv

RT: 9.82 min Scan# 2189

Delta R.T. 0.05 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Instrument :

MSVOA_L

ClientSampled :

NS-1

Tot Ion: 91 Resp: 2287768

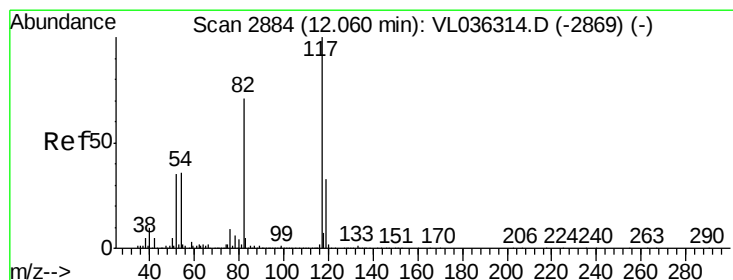
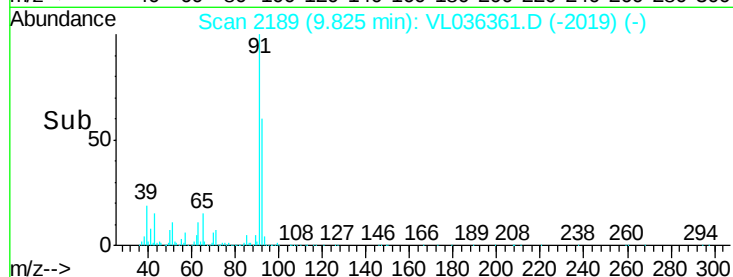
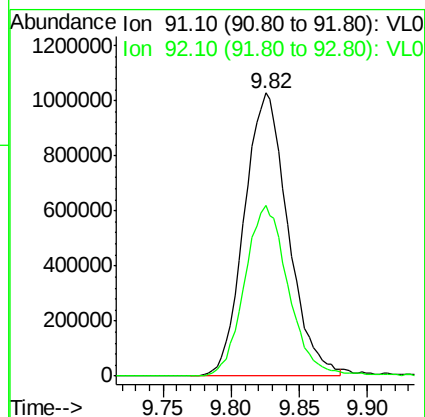
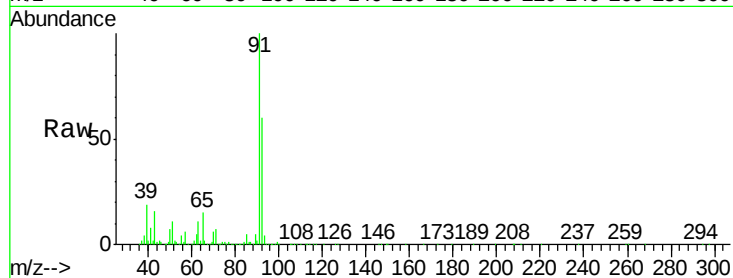
Ion Ratio Lower Upper

91 100

92 60.9 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: VL036361.D

Acq: 24 Feb 2021 22:02

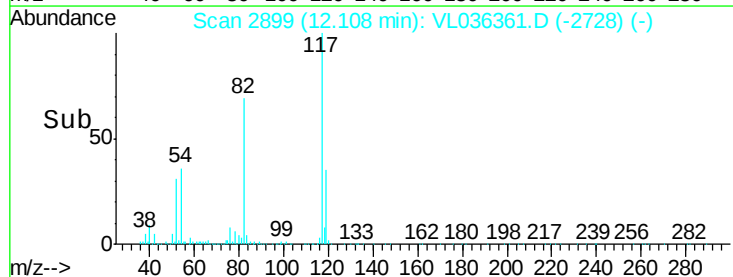
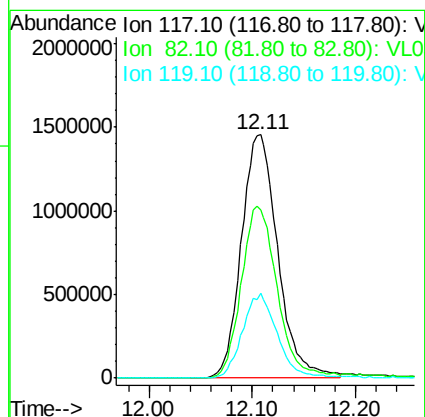
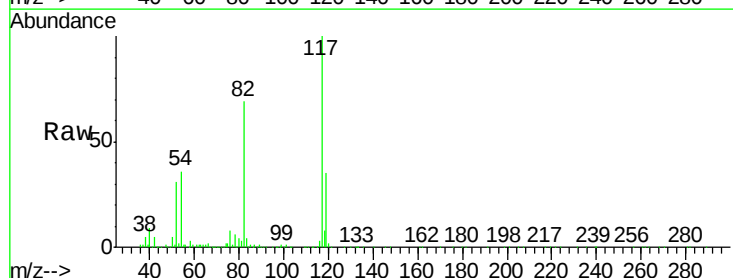
Tgt Ion: 117 Resp: 3577542

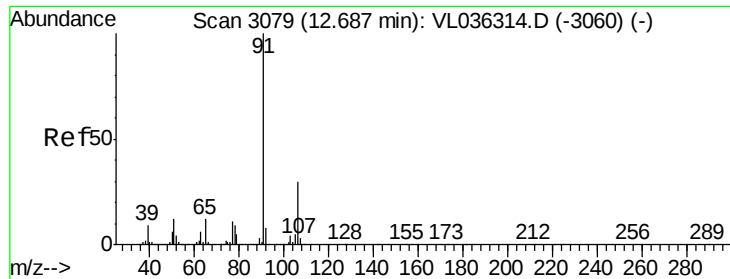
Ion Ratio Lower Upper

117 100

82 72.2 59.1 88.7

119 33.8 46.3 69.5#





#58

Ethyl Benzene

Concen: 1.134 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Instrument :

MSVOA_L

ClientSampled :

NS-1

Tot Ion: 91 Resp: 555588

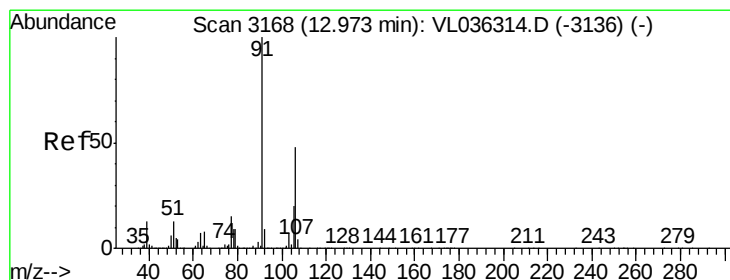
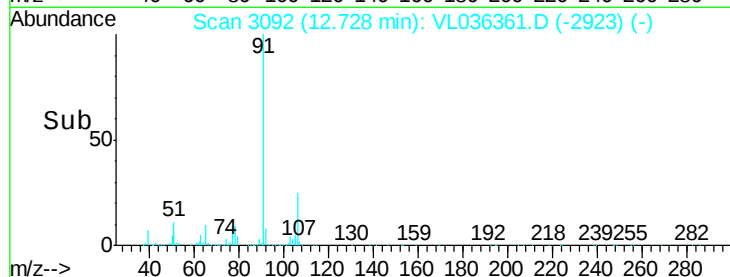
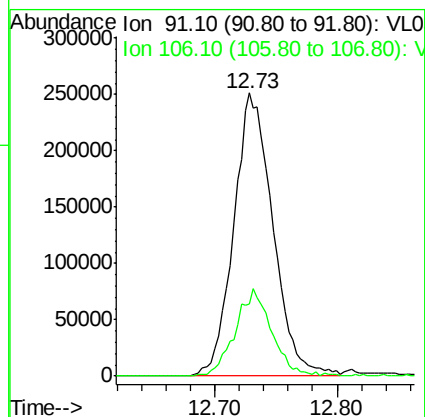
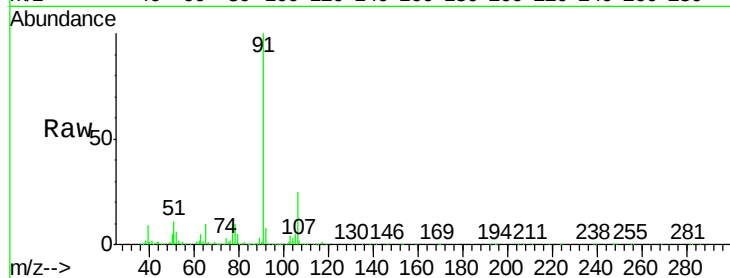
Ion Ratio Lower Upper

91 100

106 25.3 23.8 35.6

Manual Integrations
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#59

m/p-Xylene

Concen: 3.400 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. 0.01 min

Lab File: VL036361.D

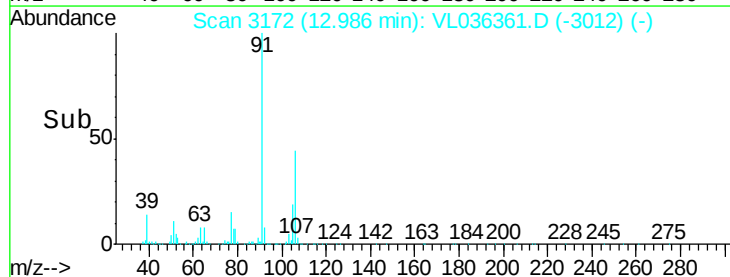
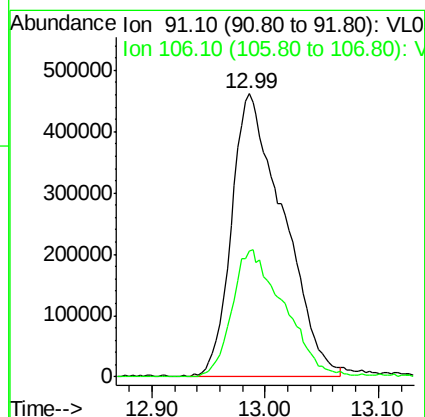
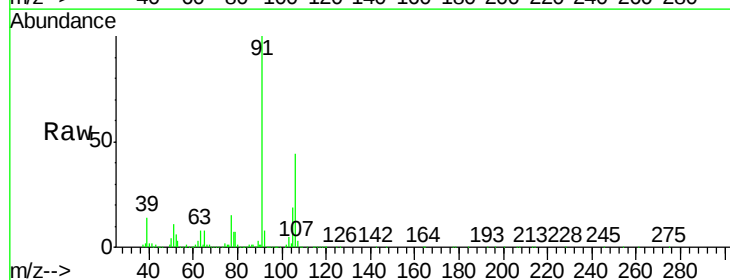
Acq: 24 Feb 2021 22:02

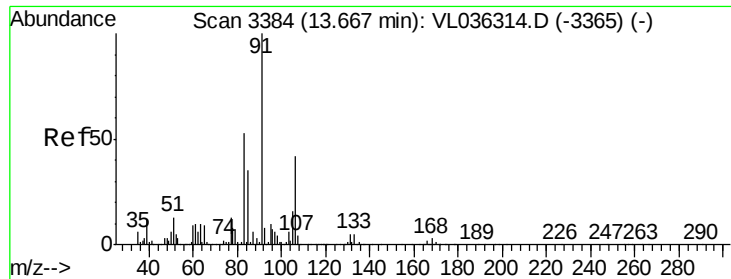
Tgt Ion: 91 Resp: 1463072

Ion Ratio Lower Upper

91 100

106 45.2 34.2 51.2





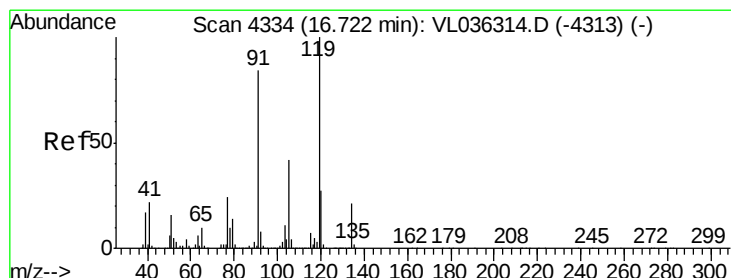
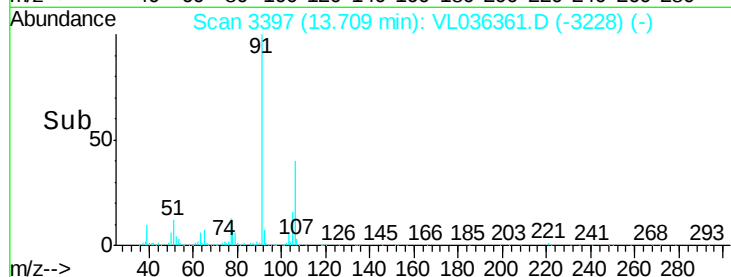
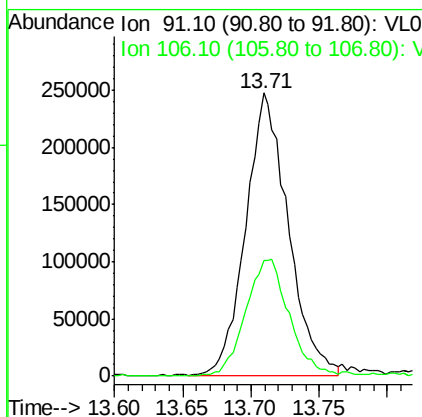
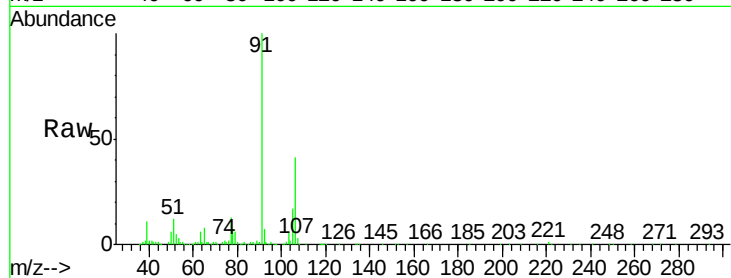
#60
o-Xylene
Concen: 1.295 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.04 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Instrument :
MSVOA_L
ClientSampled :
NS-1

Tot Ion	Ratio	Lower	Upper
91	100		
106	43.5	22.0	66.0

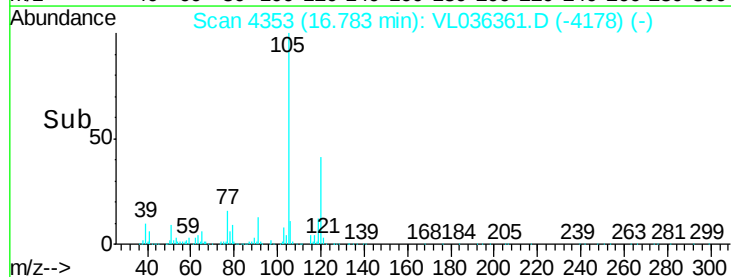
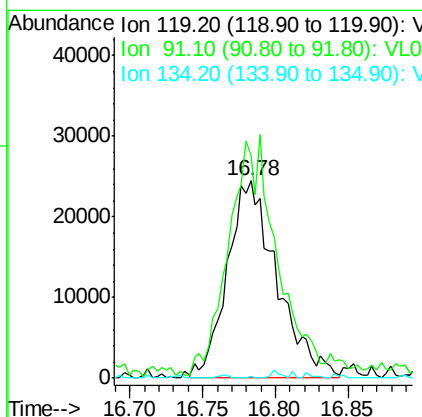
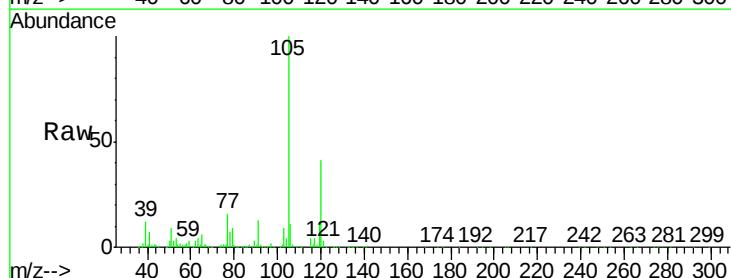
Manual Integrations
APPROVED

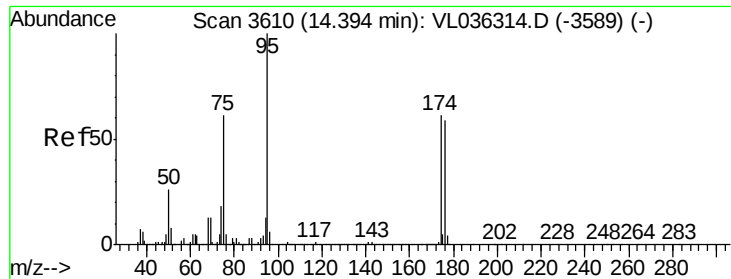
MMDadoda
2/26/2021 4:17:35 PM



#65
tert-Butylbenzene
Concen: 0.111 ppbv m
RT: 16.78 min Scan# 4353
Delta R.T. 0.06 min
Lab File: VL036361.D
Acq: 24 Feb 2021 22:02

Tgt Ion	Ratio	Lower	Upper
119	100		
91	124.8	70.5	105.7#
134	0.0	15.8	23.8#





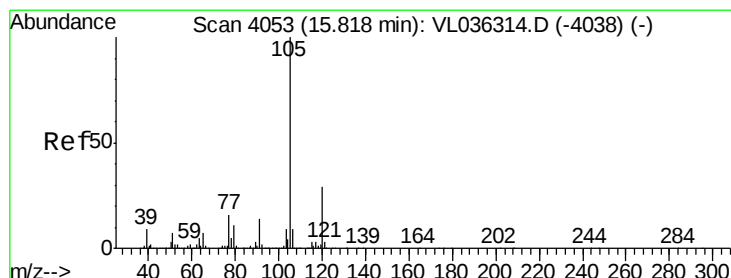
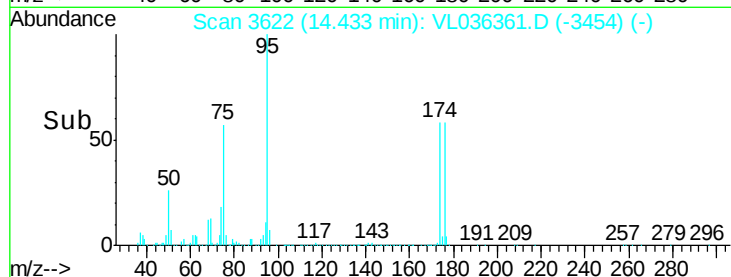
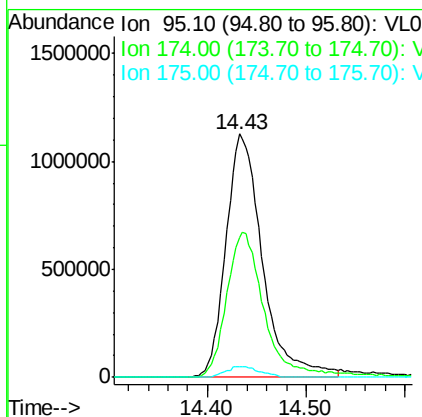
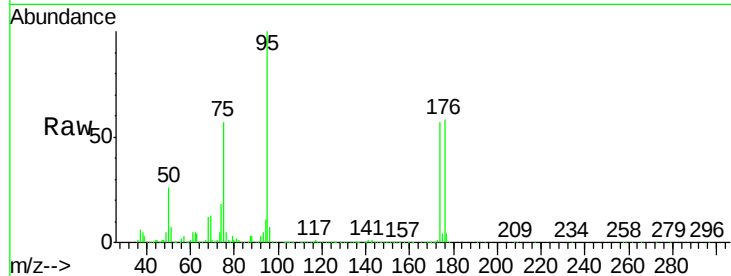
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.916 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. 0.04 min
 Lab File: VL036361.D
 Acq: 24 Feb 2021 22:02

Instrument :
 MSVOA_L
 ClientSampled :
 NS-1

Tot Ion: 95 Resp: 2918799
 Ion Ratio Lower Upper
 95 100
 174 62.5 49.8 74.6
 175 4.4 3.7 5.5

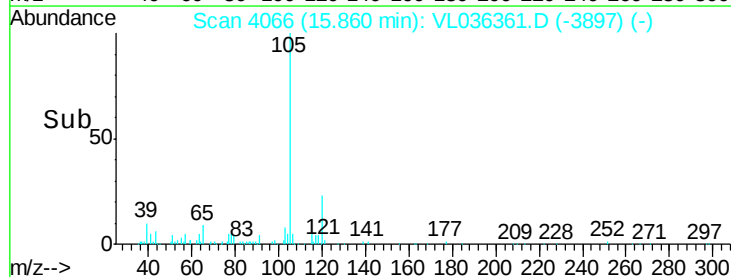
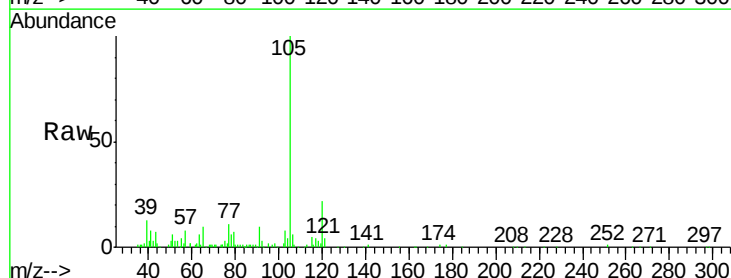
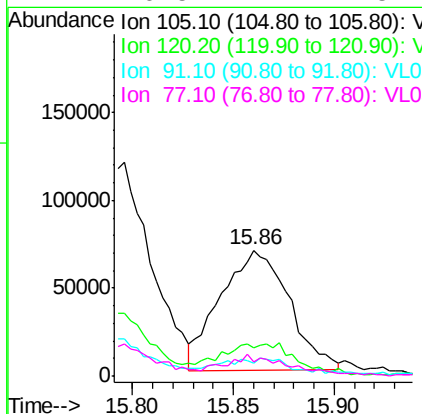
Manual Integrations
 APPROVED

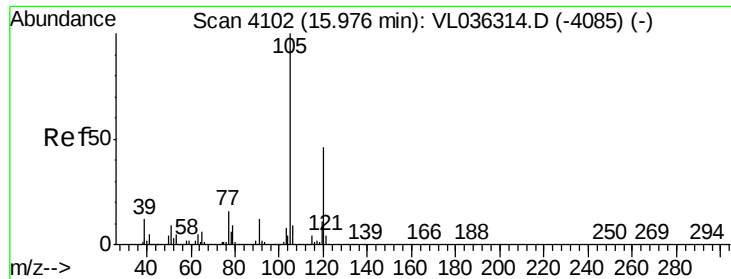
MMDadoda
 2/26/2021 4:17:35 PM



#72
 4-Ethyltoluene
 Concen: 0.356 ppbv
 RT: 15.86 min Scan# 4066
 Delta R.T. 0.04 min
 Lab File: VL036361.D
 Acq: 24 Feb 2021 22:02

Tgt Ion: 105 Resp: 162935
 Ion Ratio Lower Upper
 105 100
 120 32.4 23.2 34.8
 91 15.8 11.0 16.4
 77 16.5 12.2 18.4





#73

1,3,5-Trimethylbenzene

Concen: 0.273 ppbv m

RT: 16.02 min Scan# 4116

Delta R.T. 0.05 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Instrument :

MSVOA_L

ClientSampled :

NS-1

Tot Ion:105 Resp: 121092

Ion Ratio Lower Upper

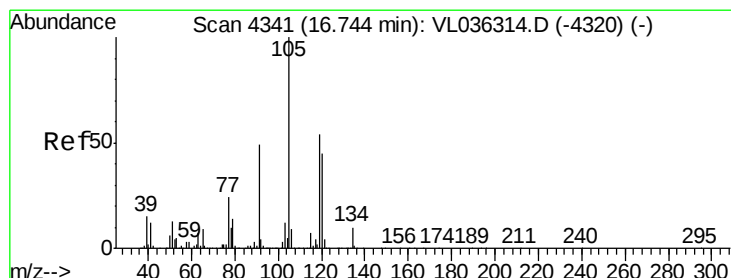
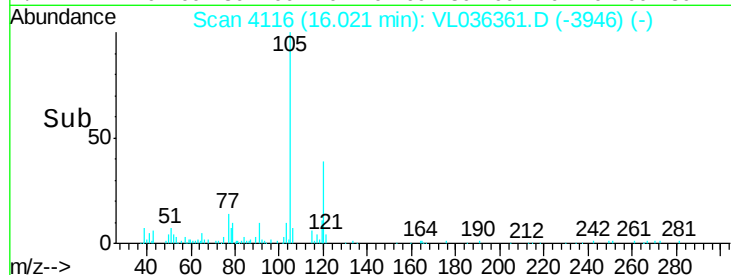
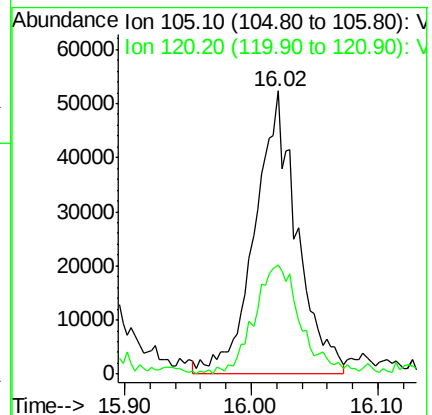
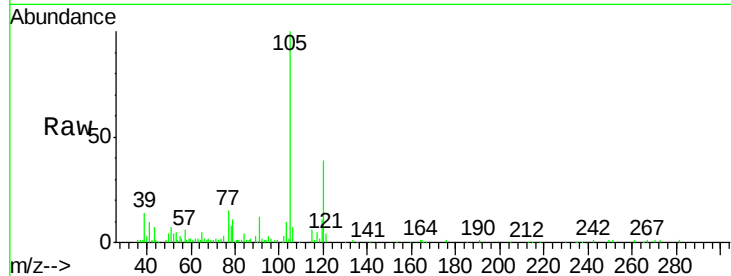
105 100

120 38.5 36.9 55.3

Manual Integrations
APPROVED

MMDadoda

2/26/2021 4:17:35 PM



#74

1,2,4-Trimethylbenzene

Concen: 1.195 ppbv m

RT: 16.79 min Scan# 4354

Delta R.T. 0.04 min

Lab File: VL036361.D

Acq: 24 Feb 2021 22:02

Tgt Ion:105 Resp: 541500

Ion Ratio Lower Upper

105 100

120 41.6 35.8 53.6

91 11.1 39.8 59.6#

77 16.6 19.1 28.7#

