

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037231.D
 Acq On : 23 Jun 2021 00:31
 Operator : SY/AP
 Sample : M2797-02 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
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MMDadoda
 6/24/2021 4:33:31 PM

Quant Time: Jun 24 09:31:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1814575	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5037767	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4501703	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3355878	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	5952552	16.870	ppbv	99
4) Chloromethane	3.14	50	14712m	0.125	ppbv	
9) Propene	3.01	41	1986803	17.611	ppbv	98
10) Heptane	8.12	43	86563m	0.317	ppbv	
13) Ethanol	3.60	45	715615	41.005	ppbv	47
15) Acetone	3.84	43	13488480	65.918	ppbv #	83
17) tert-Butyl alcohol	4.30	59	357901	1.892	ppbv	97
19) Isopropyl Alcohol	3.97	45	179611m	1.449	ppbv	
20) Methylene Chloride	4.35	84	140399	1.146	ppbv	92
26) Hexane	5.68	57	170487m	0.761	ppbv	
27) Carbon Disulfide	4.55	76	56494	0.258	ppbv #	91
32) 1,1,1-Trichloroethane	6.52	97	19252m	0.052	ppbv	
34) 2-Butanone	5.24	43	20088677	102.533	ppbv #	82
36) Benzene	6.89	78	77798	0.191	ppbv	96
41) Tetrahydrofuran	6.06	42	20275	0.223	ppbv #	76
50) 4-Methyl-2-Pentanone	8.75	43	246633	0.916	ppbv	94
51) 2-Hexanone	10.13	43	2787670	21.290	ppbv #	96
52) Tetrachloroethene	11.22	164	971076	5.130	ppbv	97
53) Toluene	9.81	91	764314	1.571	ppbv	98
58) Ethyl Benzene	12.71	91	195586	0.316	ppbv	92
59) m/p-Xylene	12.96	91	648109m	1.234	ppbv	
60) o-Xylene	13.69	91	217511	0.435	ppbv	99
61) Styrene	13.53	104	46558m	0.180	ppbv	
72) 4-Ethyltoluene	15.83	105	131732m	0.232	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	87036m	0.158	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	343242	0.607	ppbv #	71

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

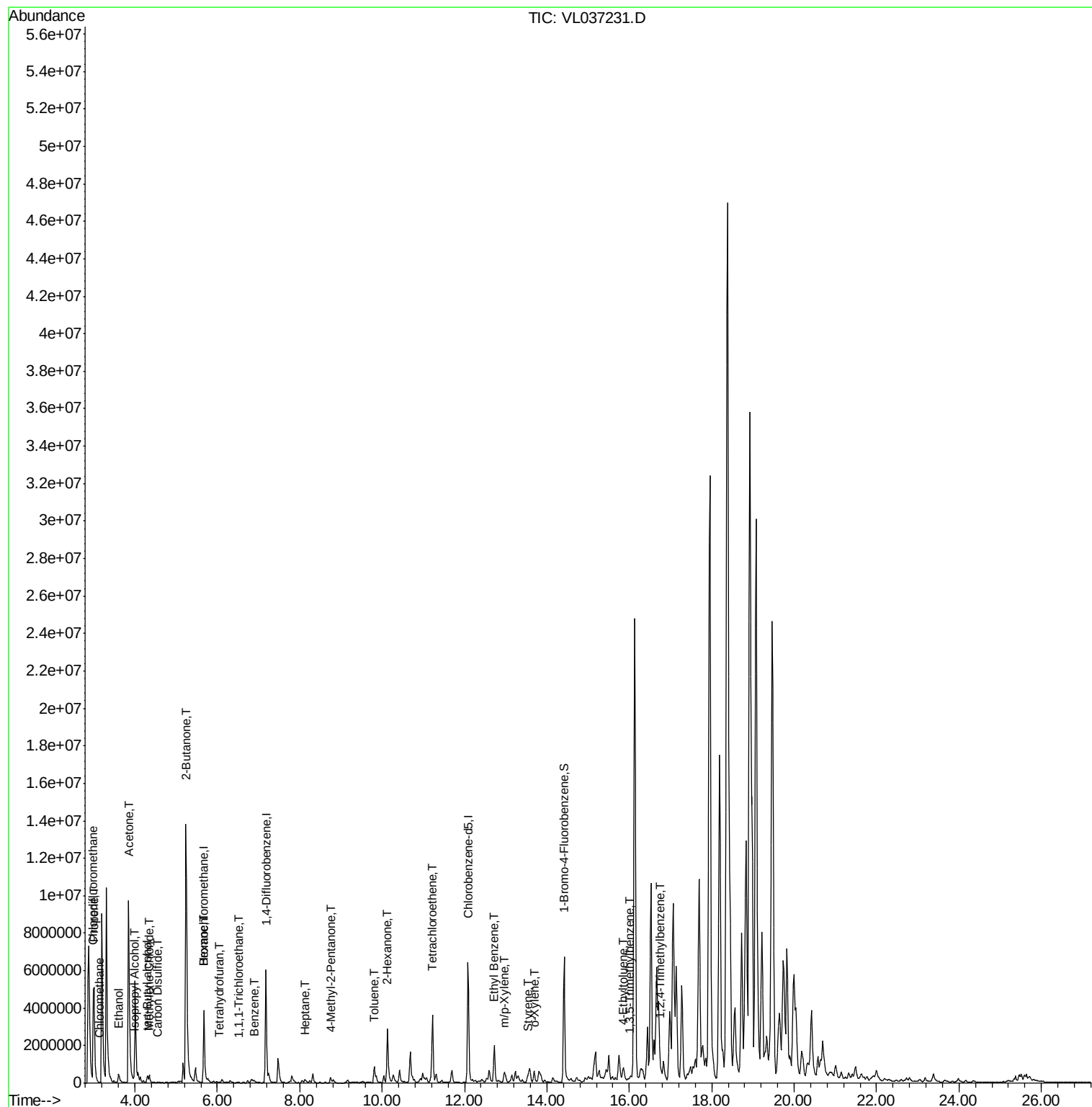
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062221\
Data File : VL037231.D
Acq On : 23 Jun 2021 00:31
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

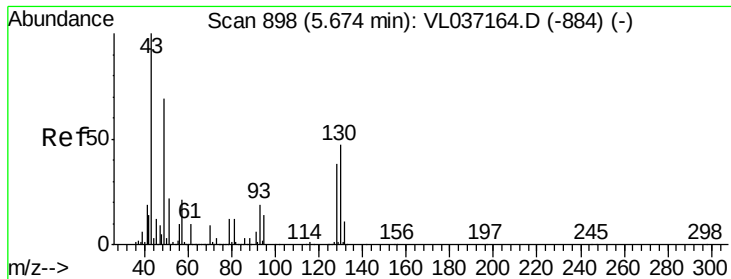
Instrument :
MSVOA_L
ClientSampleId :
SV2

Manual Integrations
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Quant Time: Jun 24 09:31:12 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

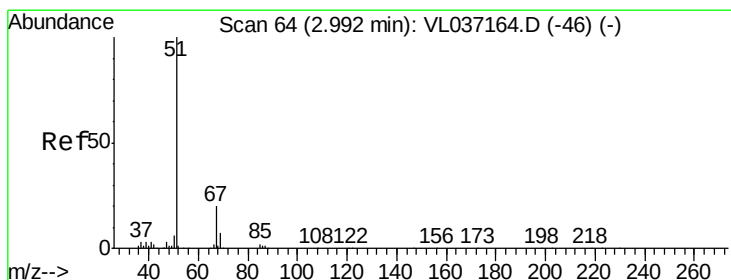
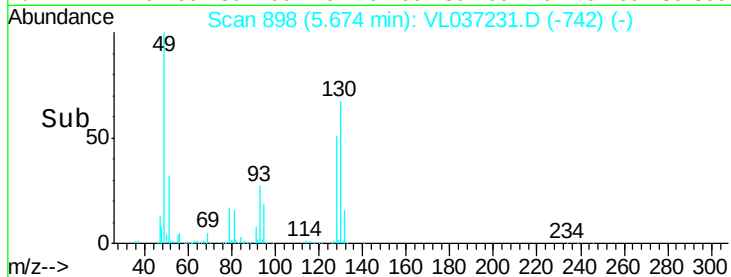
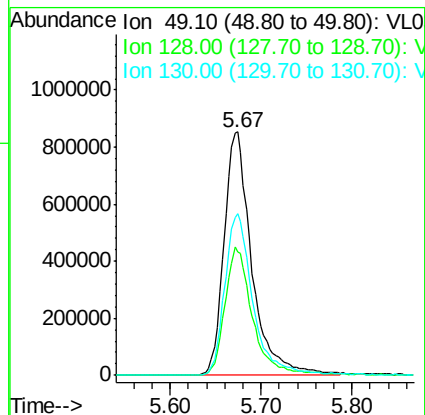
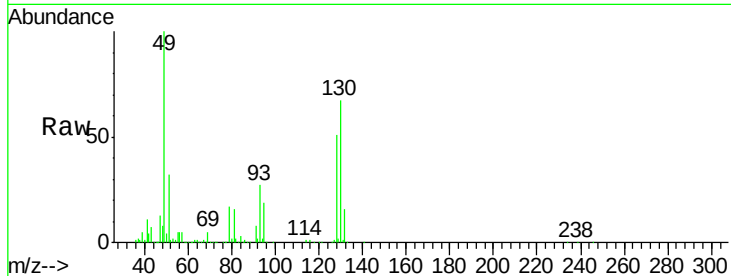
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. 0.00 min
 Lab File: VL037231.D
 Acq: 23 Jun 2021 00:31

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tot Ion: 49 Resp: 1814575
 Ion Ratio Lower Upper
 49 100
 128 52.8 29.3 88.0
 130 67.6 35.9 107.8

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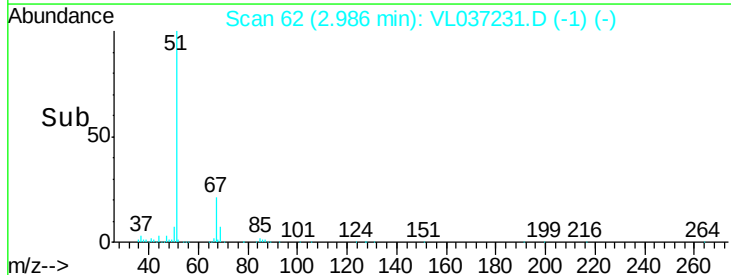
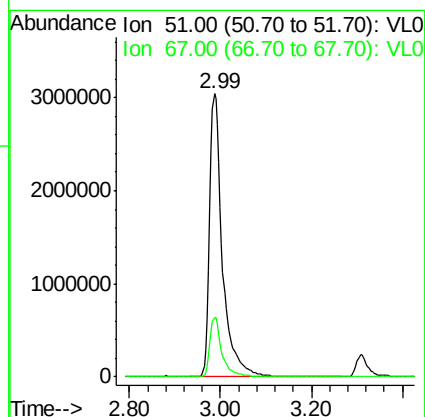
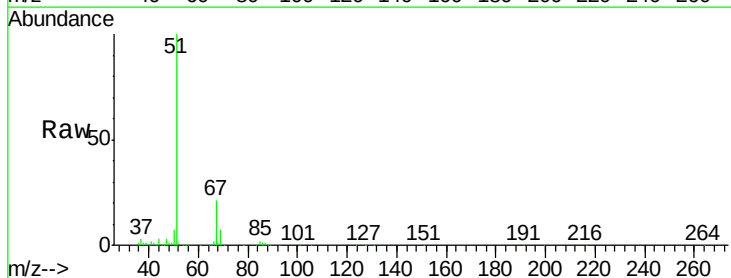
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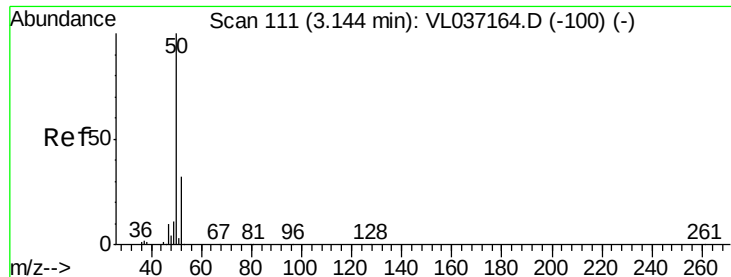


#3

Chlorodifluoromethane
 Concen: 16.870 ppbv
 RT: 2.99 min Scan# 62
 Delta R.T. -0.01 min
 Lab File: VL037231.D
 Acq: 23 Jun 2021 00:31

Tgt Ion: 51 Resp: 5952552
 Ion Ratio Lower Upper
 51 100
 67 20.1 15.8 23.6





#4

Chloromethane

Concen: 0.125 ppbv m

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion: 50 Resp: 14712

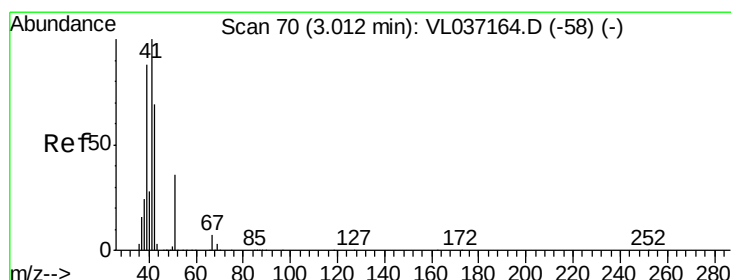
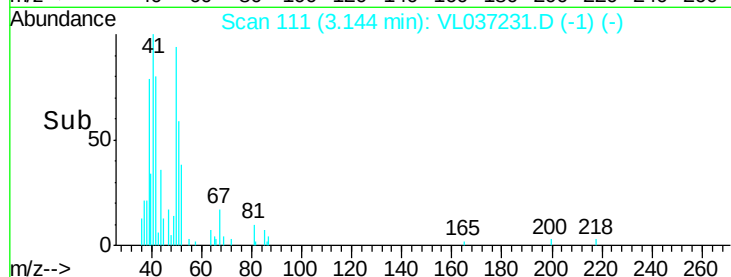
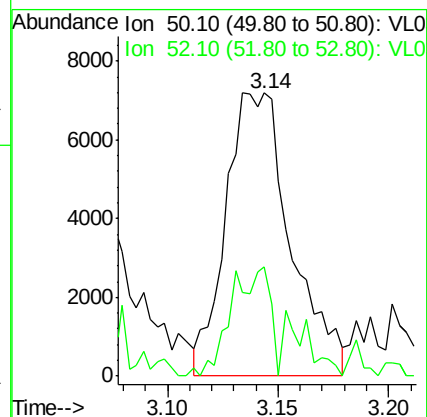
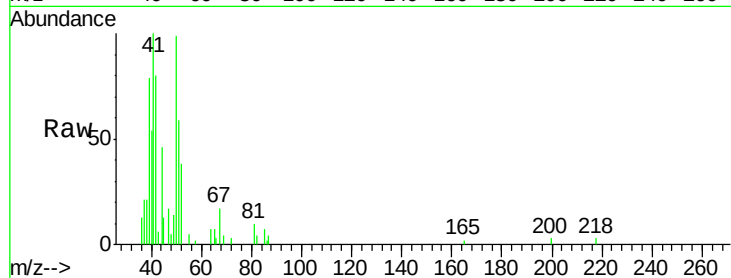
Ion Ratio Lower Upper

50 100

52 38.5 25.8 38.8

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#9

Propene

Concen: 17.611 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037231.D

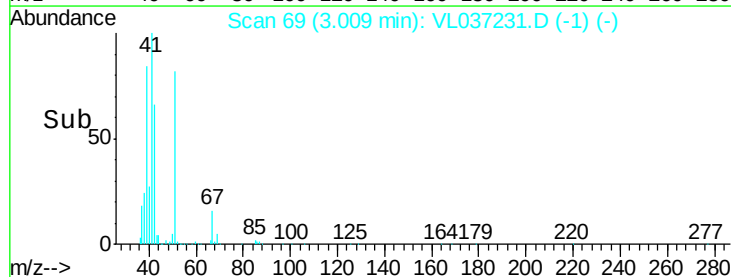
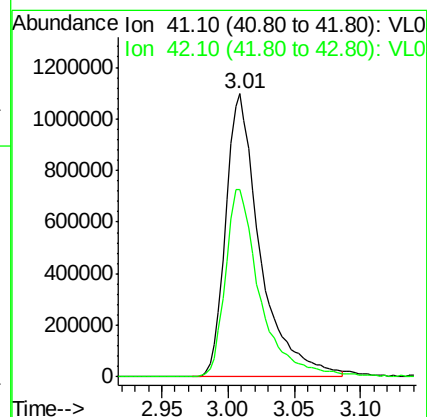
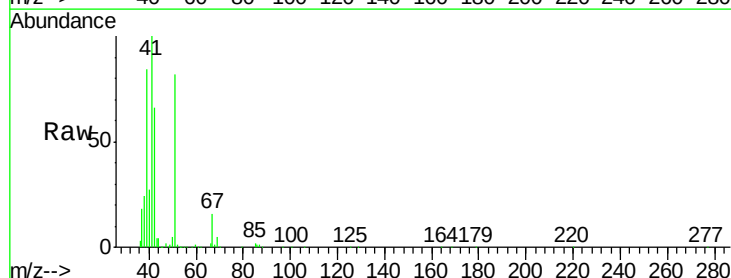
Acq: 23 Jun 2021 00:31

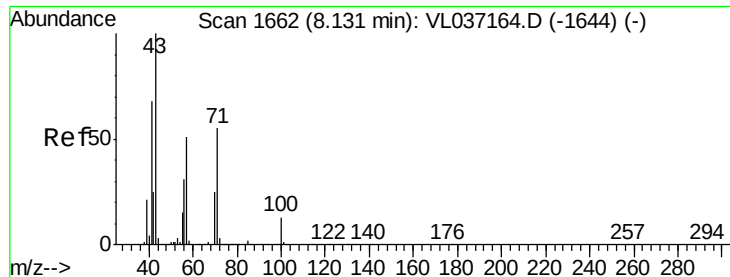
Tgt Ion: 41 Resp: 1986803

Ion Ratio Lower Upper

41 100

42 66.8 54.5 81.7





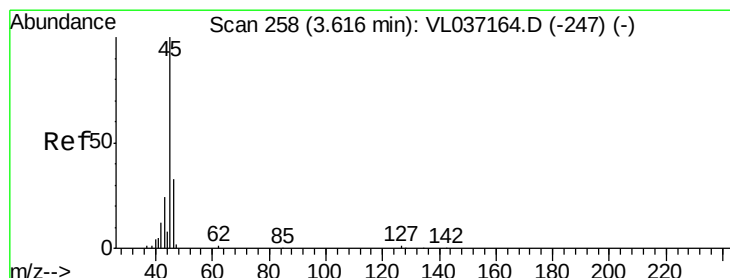
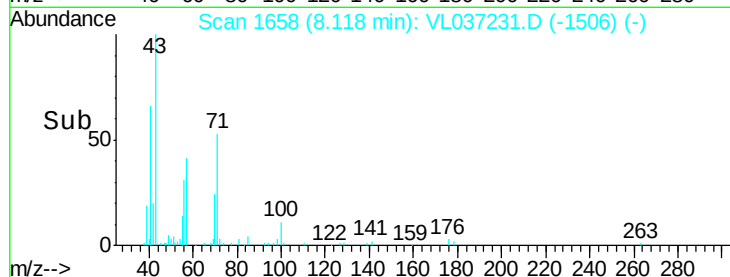
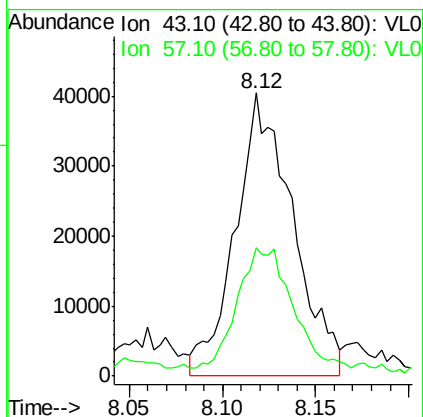
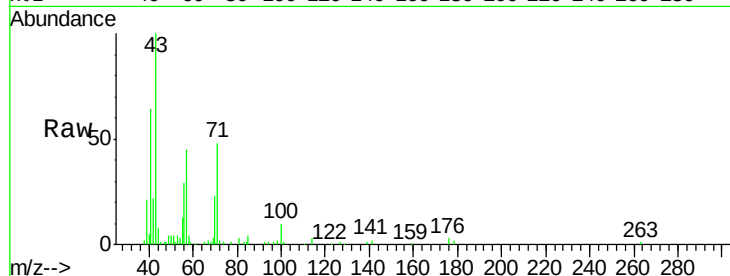
#10
Heptane
Concen: 0.317 ppbv m
RT: 8.12 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion: 43 Resp: 86563
Ion Ratio Lower Upper
43 100
57 0.0 40.6 61.0#

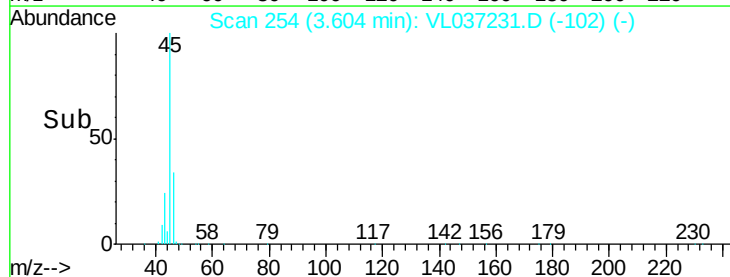
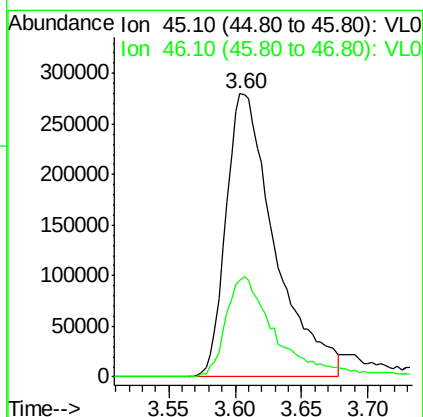
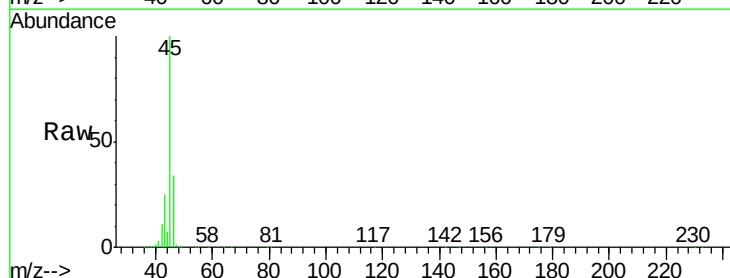
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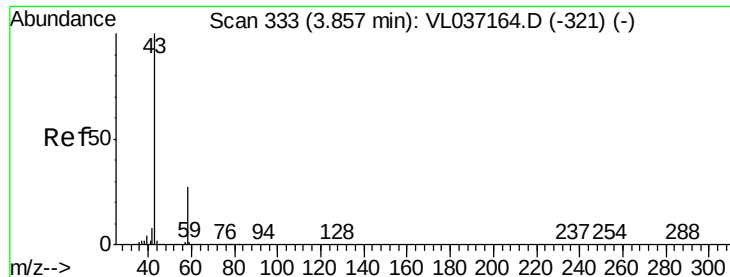
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#13
Ethanol
Concen: 41.005 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Tgt Ion: 45 Resp: 715615
Ion Ratio Lower Upper
45 100
46 37.3 34.2 137.0





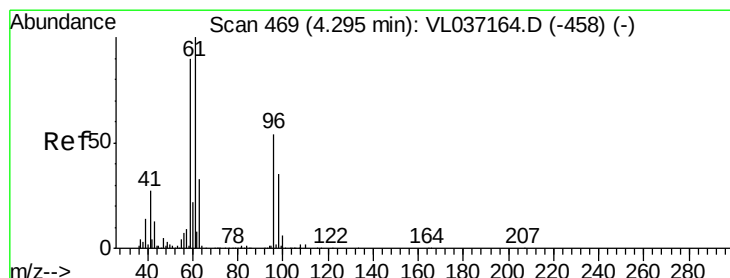
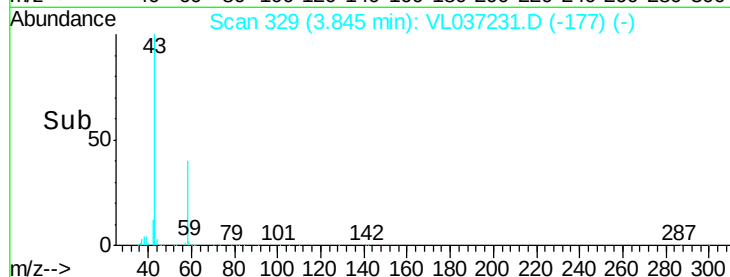
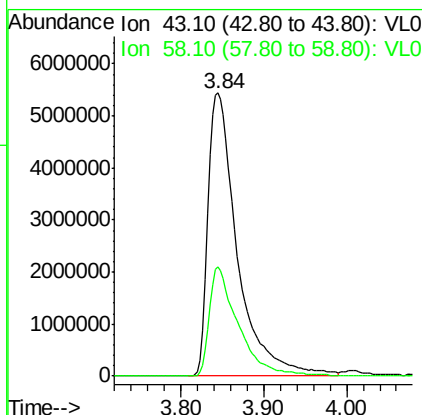
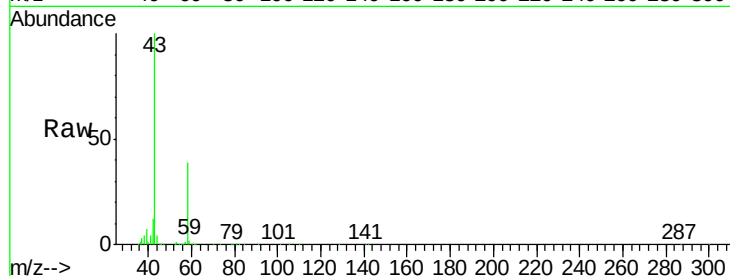
#15
Acetone
Concen: 65.918 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion: 43 Resp: 13488480
Ion Ratio Lower Upper
43 100
58 38.6 23.7 35.5#

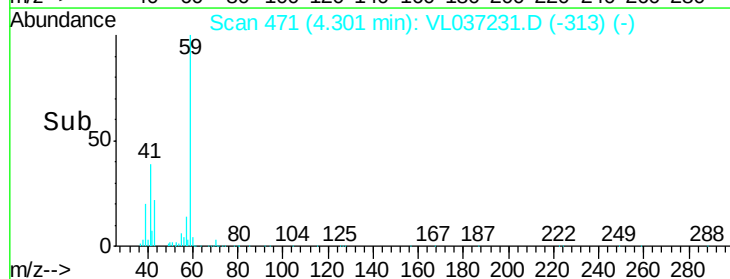
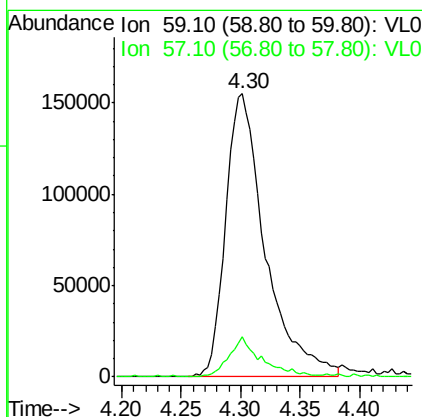
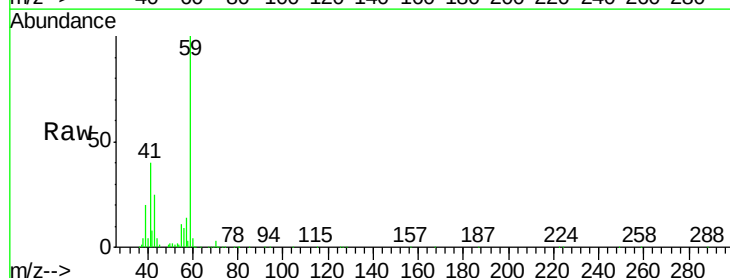
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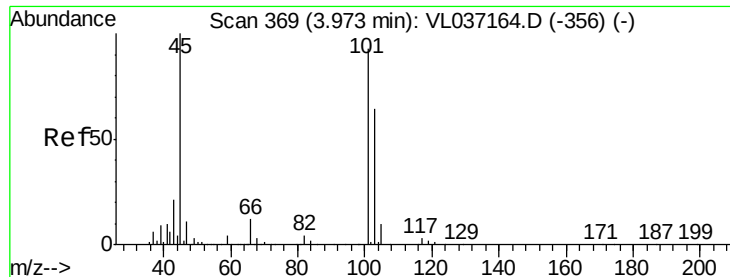
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#17
tert-Butyl alcohol
Concen: 1.892 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Tgt Ion: 59 Resp: 357901
Ion Ratio Lower Upper
59 100
57 12.3 8.8 13.2





#19

Isopropyl Alcohol

Concen: 1.449 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion: 45 Resp: 179611

Ion Ratio Lower Upper

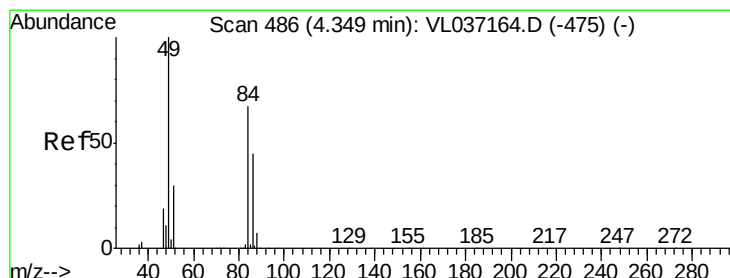
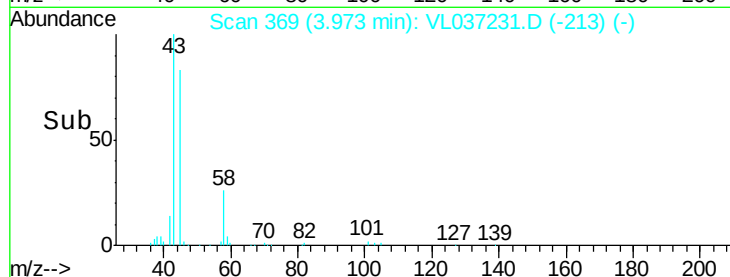
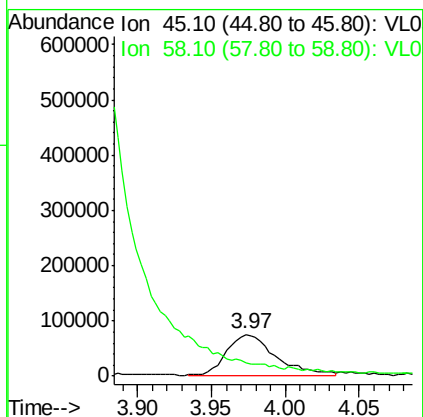
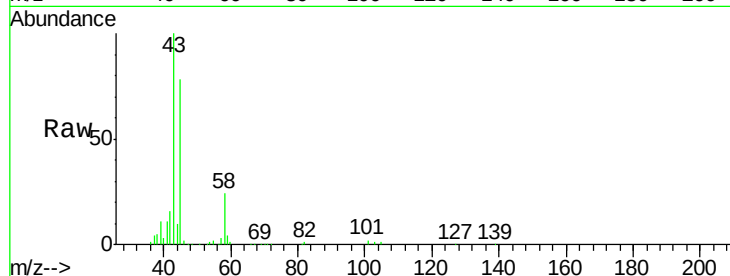
45 100

58 0.0 2.4 3.6#

Manual Integrations
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6/24/2021 4:33:31 PM



#20

Methylene Chloride

Concen: 1.146 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.00 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Tgt Ion: 84 Resp: 140399

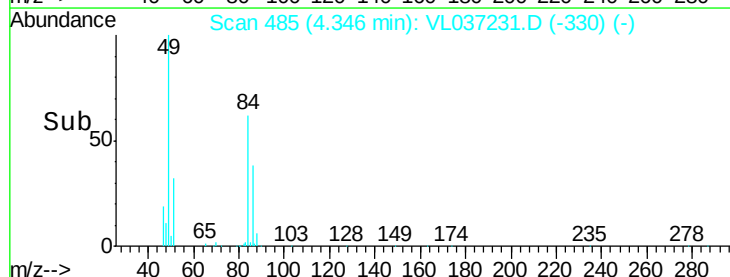
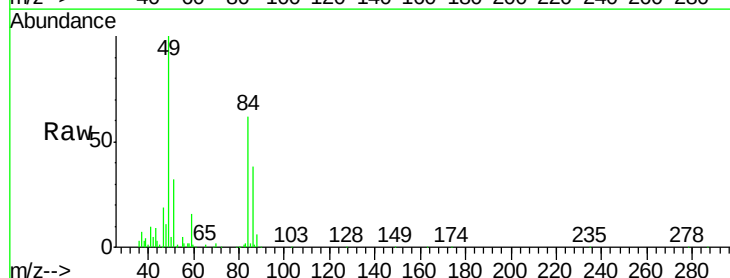
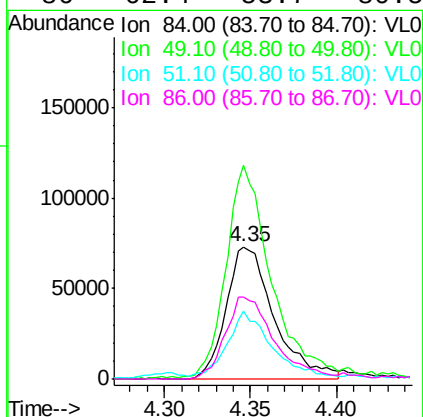
Ion Ratio Lower Upper

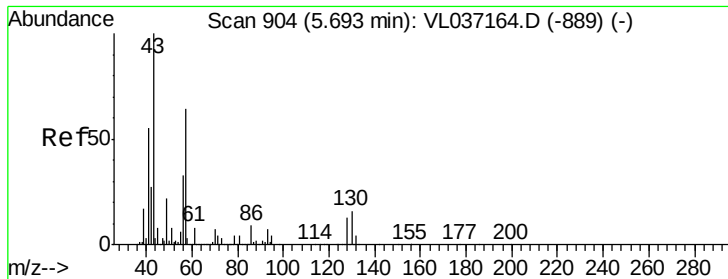
84 100

49 160.9 119.7 179.5

51 49.6 36.1 54.1

86 62.4 53.7 80.5





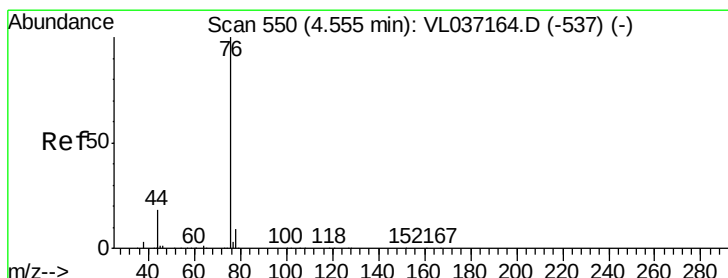
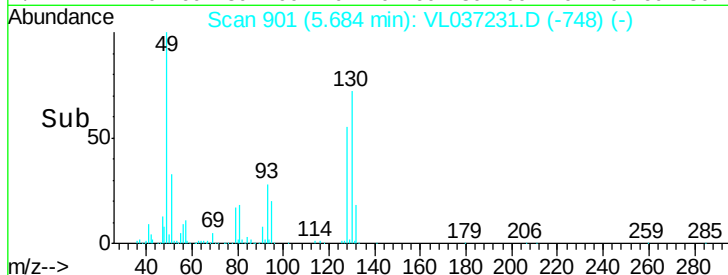
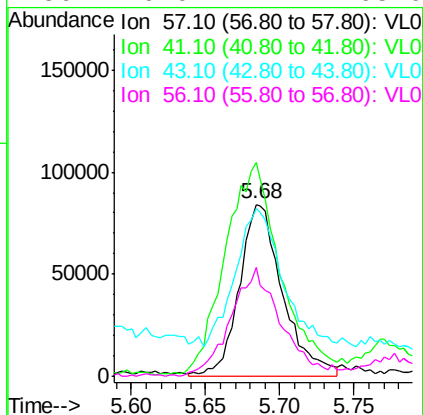
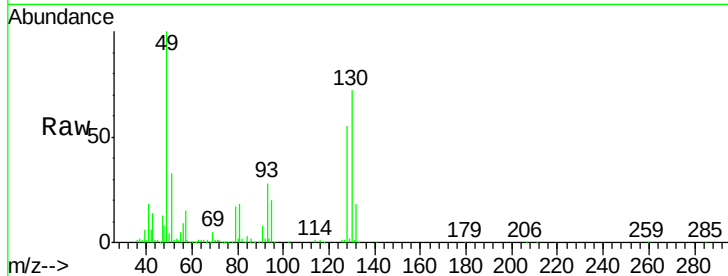
#26
Hexane
Concen: 0.761 ppbv m
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion:	57	Resp:	170487
Ion Ratio	Lower	Upper	
57	100		
41	0.0	73.5	110.3#
43	0.0	170.7	256.1#
56	0.0	42.4	63.6#

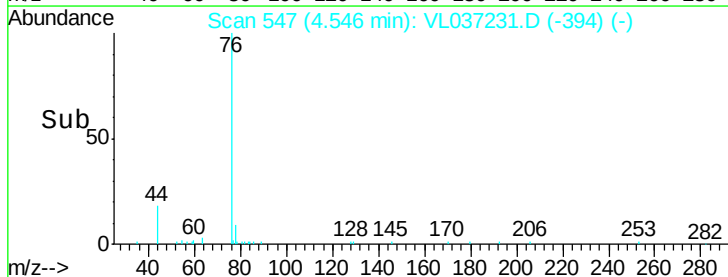
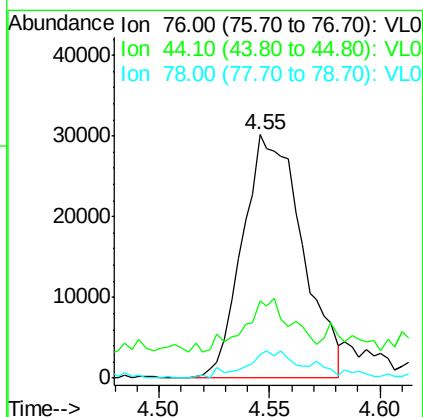
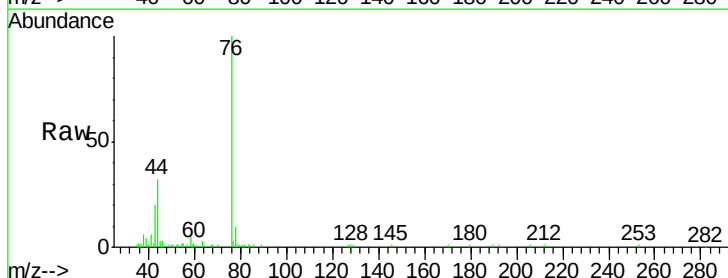
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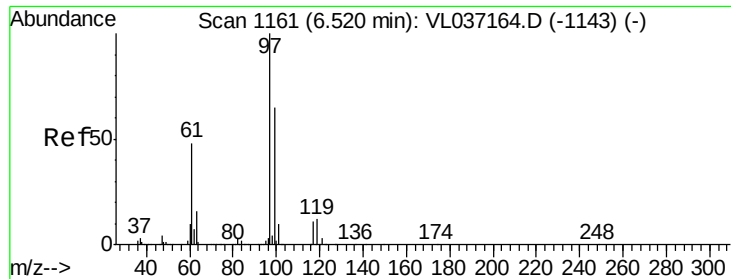
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#27
Carbon Disulfide
Concen: 0.258 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Tgt Ion:	76	Resp:	56494
Ion Ratio	Lower	Upper	
76	100		
44	23.8	15.4	23.2#
78	13.1	8.0	12.0#





#32

1,1,1-Trichloroethane

Concen: 0.052 ppbv m

RT: 6.52 min Scan# 1162

Delta R.T. 0.00 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Instrument :

MSVOA_L

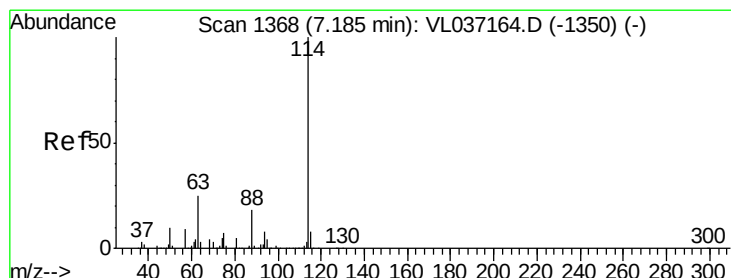
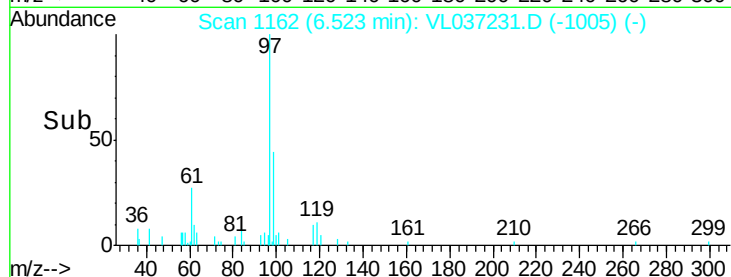
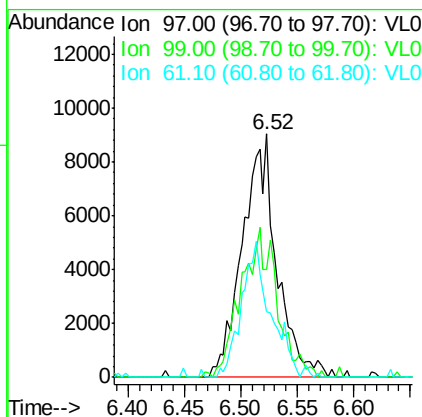
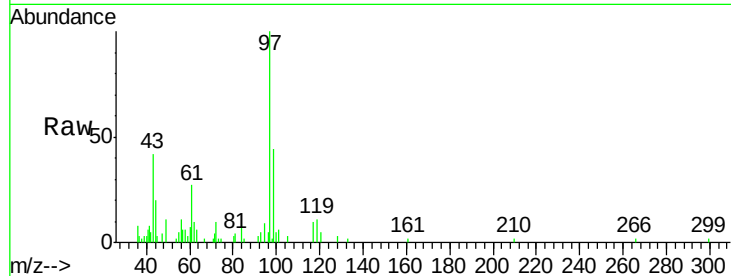
ClientSampleId :

SV2

Tot Ion:	97	Resp:	19252
Ion Ratio	Lower	Upper	
97	100		
99	0.0	52.2	78.4#
61	0.0	38.8	58.2#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

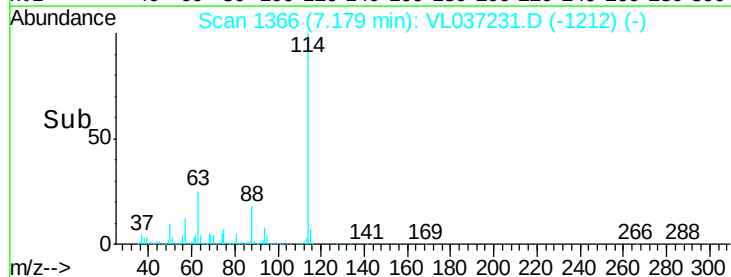
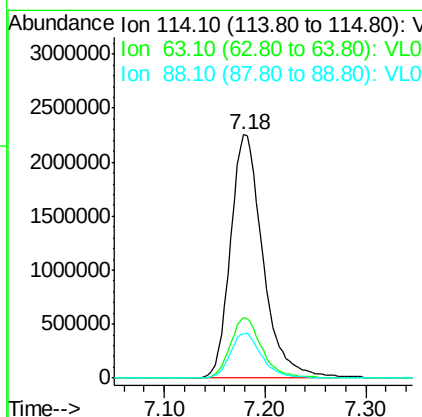
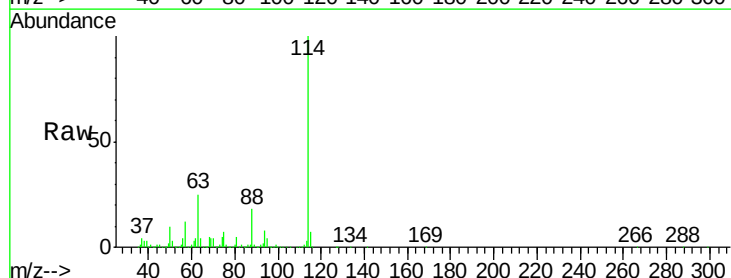
RT: 7.18 min Scan# 1366

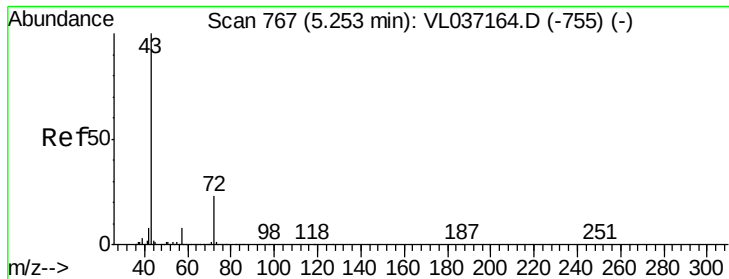
Delta R.T. -0.01 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Tgt Ion:	114	Resp:	5037767
Ion Ratio	Lower	Upper	
114	100		
63	24.6	19.6	29.4
88	18.2	14.2	21.2





#34

2-Butanone

Concen: 102.533 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.01 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion: 43 Resp:20088677

Ion Ratio Lower Upper

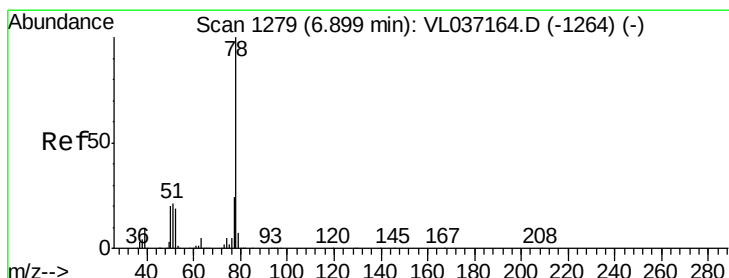
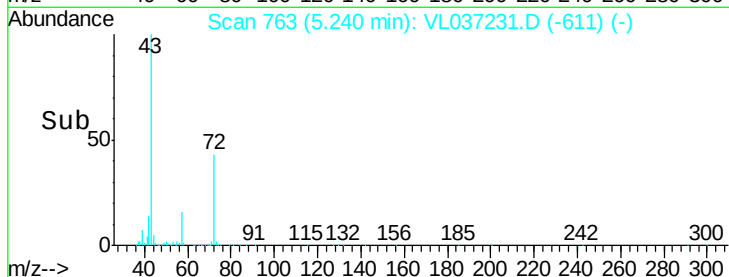
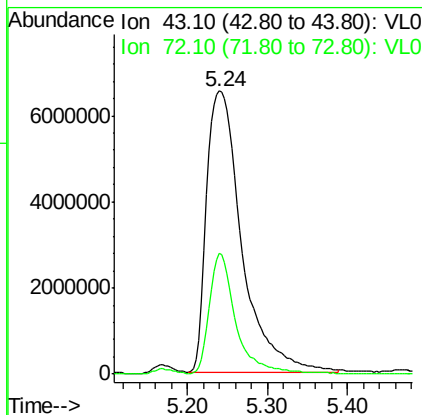
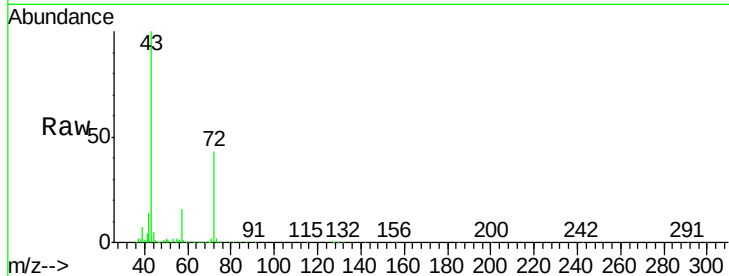
43 100

72 32.3 18.9 28.3#

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6/24/2021 4:33:31 PM



#36

Benzene

Concen: 0.191 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

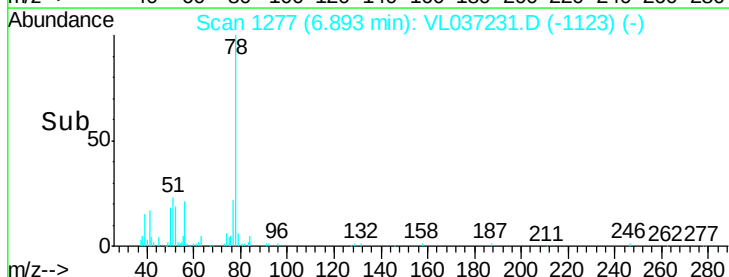
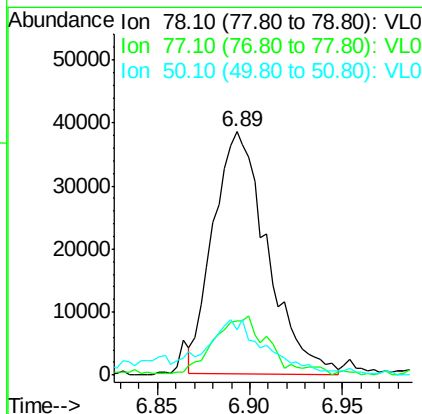
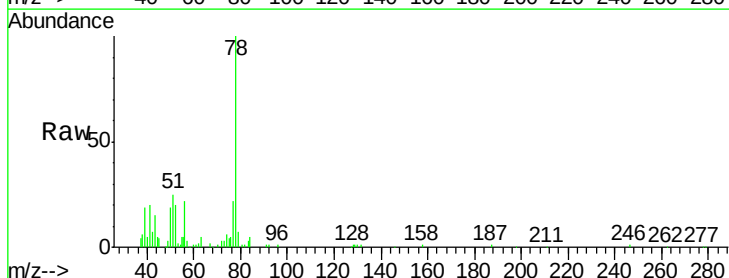
Tgt Ion: 78 Resp: 77798

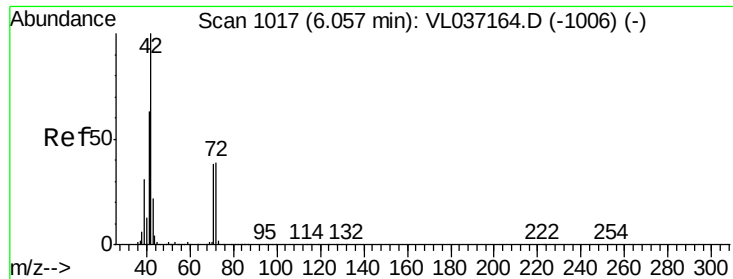
Ion Ratio Lower Upper

78 100

77 21.6 19.0 28.6

50 17.5 15.7 23.5





#41

Tetrahydrofuran

Concen: 0.223 ppbv

RT: 6.06 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Instrument :

MSVOA_L

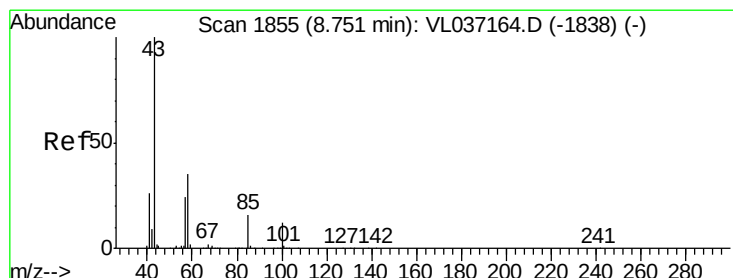
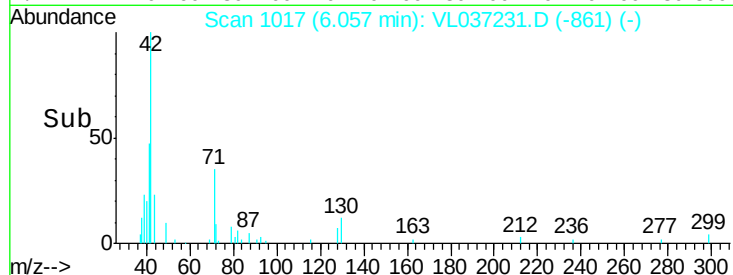
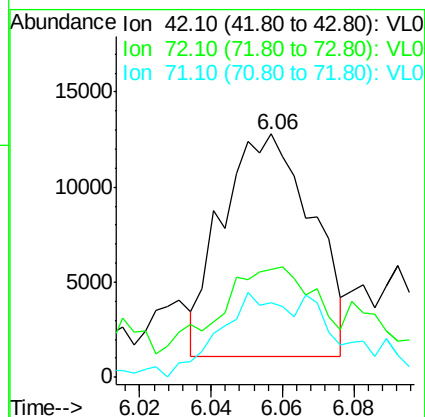
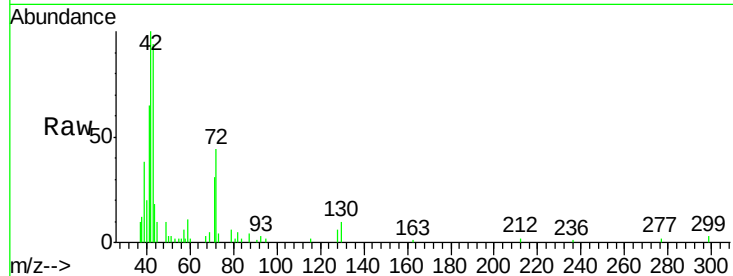
ClientSampleId :

SV2

Tot Ion	Ratio	Lower	Upper
42	100		
72	52.1	33.0	49.4#
71	57.9	31.0	46.6#

Manual Integrations
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6/24/2021 4:33:31 PM



#50

4-Methyl-2-Pentanone

Concen: 0.916 ppbv

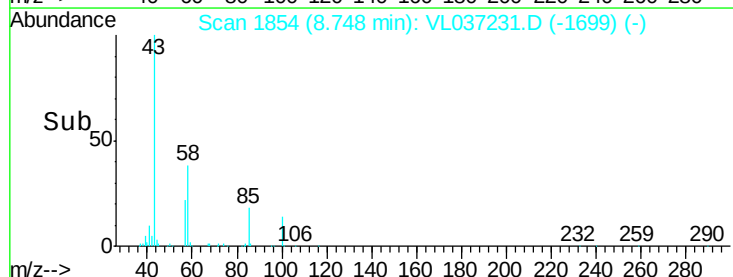
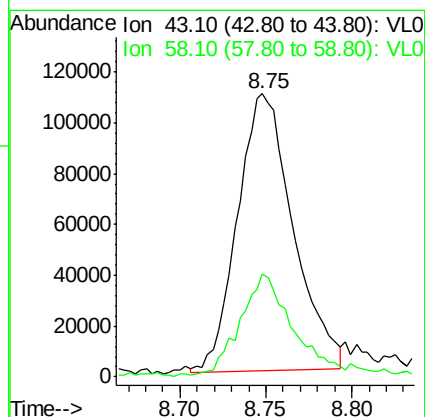
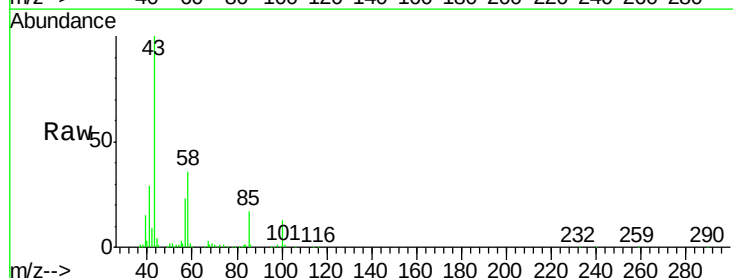
RT: 8.75 min Scan# 1854

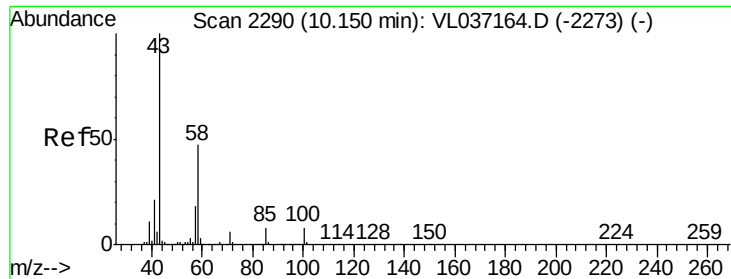
Delta R.T. -0.00 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.8	28.4	42.6





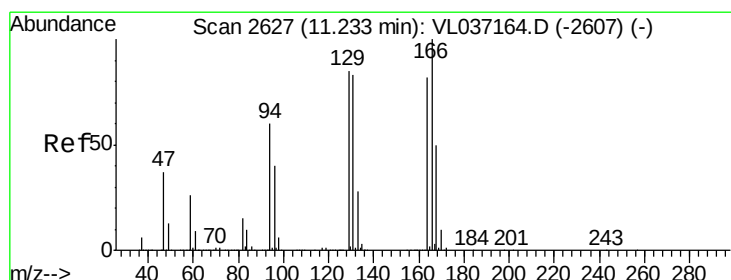
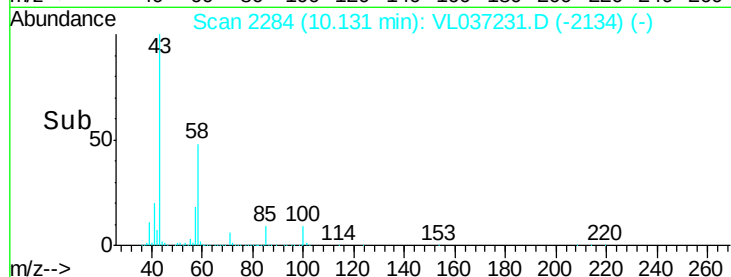
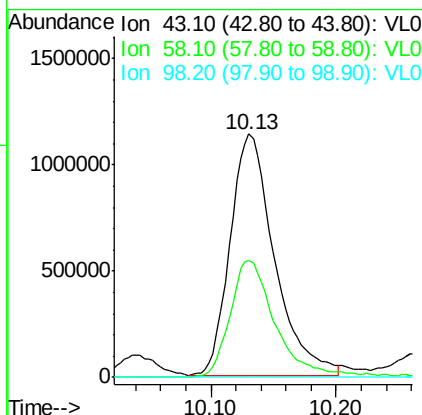
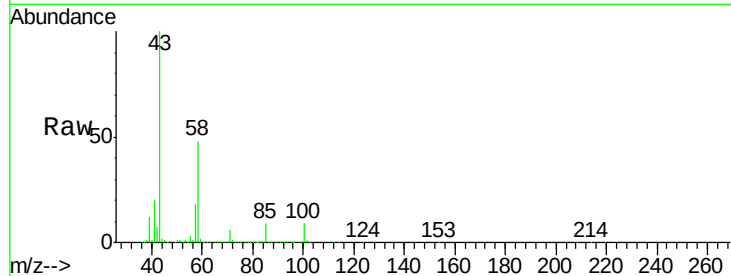
#51
2-Hexanone
Concen: 21.290 ppbv
RT: 10.13 min Scan# 2284
Delta R.T. -0.02 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion: 43 Resp: 2787670
Ion Ratio Lower Upper
43 100
58 50.7 38.4 57.6
98 0.1 0.3 0.5#

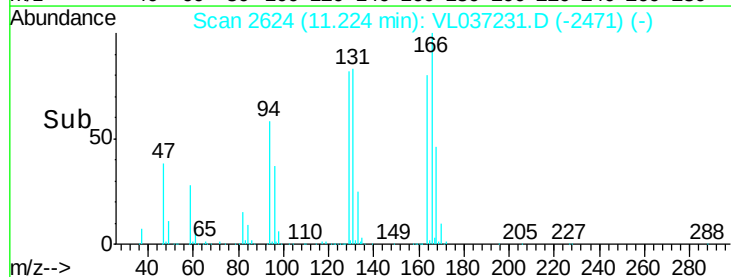
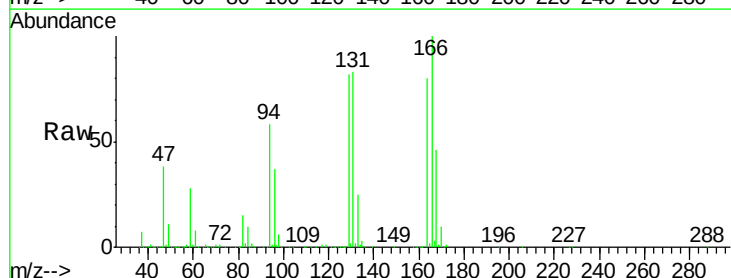
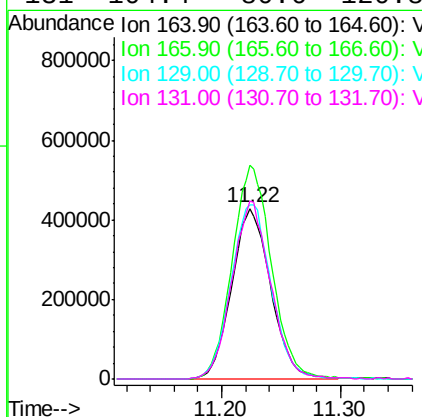
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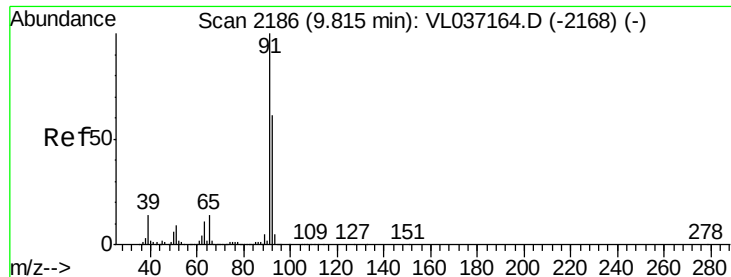
MMDadoda
6/24/2021 4:33:31 PM



#52
Tetrachloroethene
Concen: 5.130 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Tgt Ion: 164 Resp: 971076
Ion Ratio Lower Upper
164 100
166 125.1 97.6 146.4
129 102.4 82.9 124.3
131 104.4 80.6 120.8





#53

Toluene

Concen: 1.571 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion: 91 Resp: 764314

Ion Ratio Lower Upper

91 100

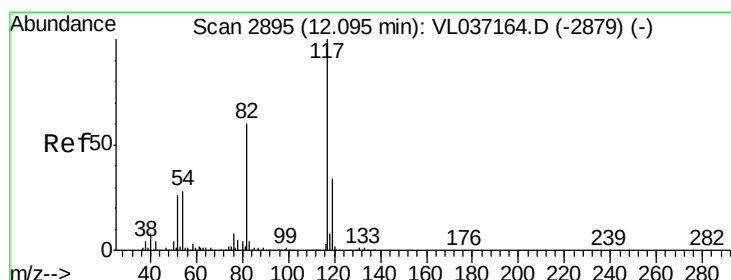
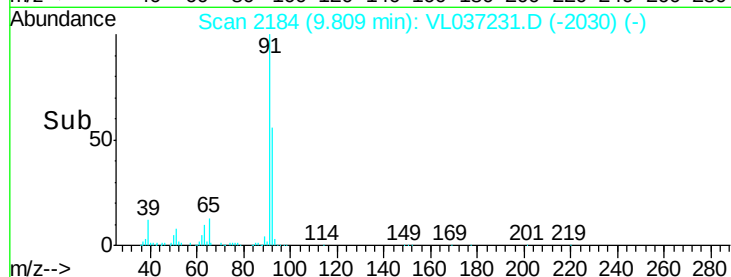
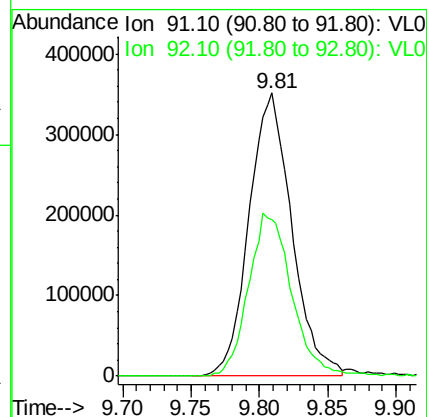
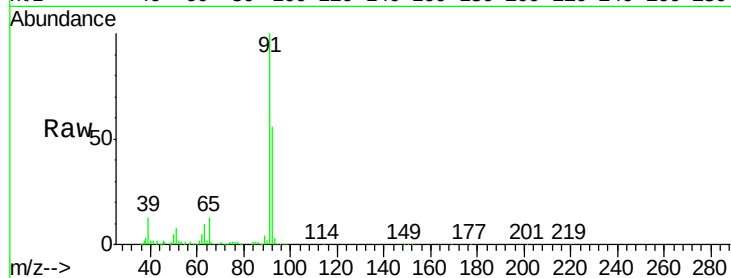
92 58.9 48.3 72.5

Manual Integrations

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6/24/2021 4:33:31 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

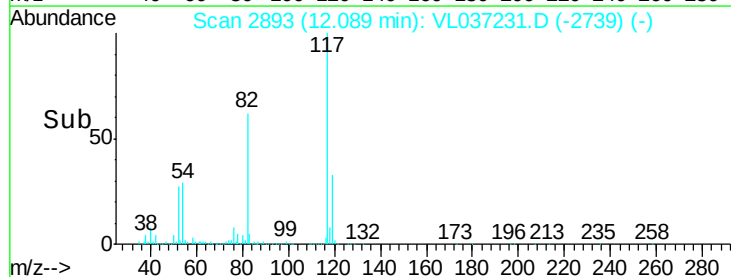
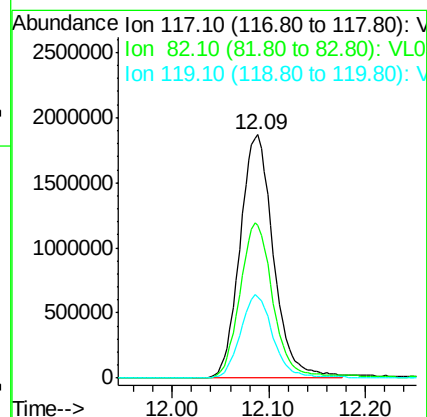
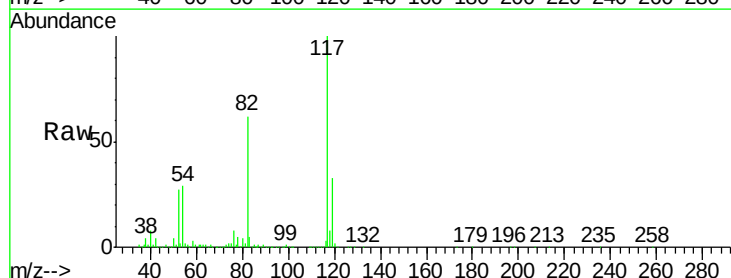
Tgt Ion: 117 Resp: 4501703

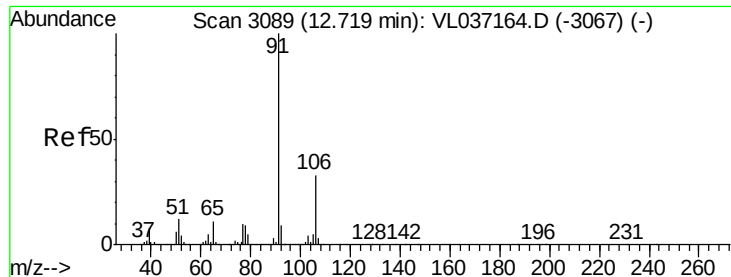
Ion Ratio Lower Upper

117 100

82 64.4 51.7 77.5

119 34.0 47.6 71.4#





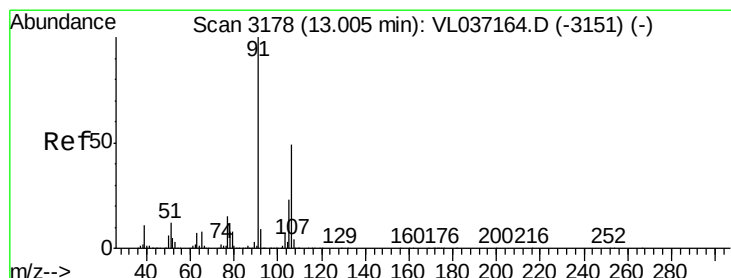
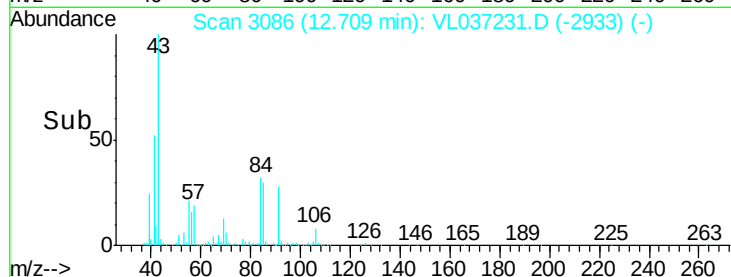
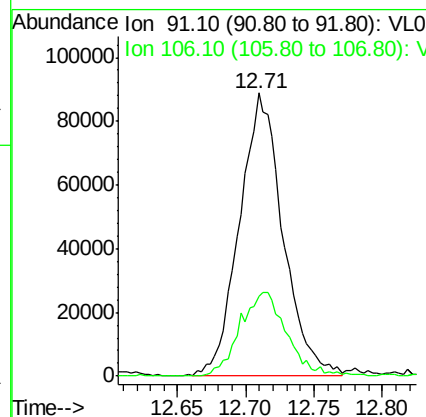
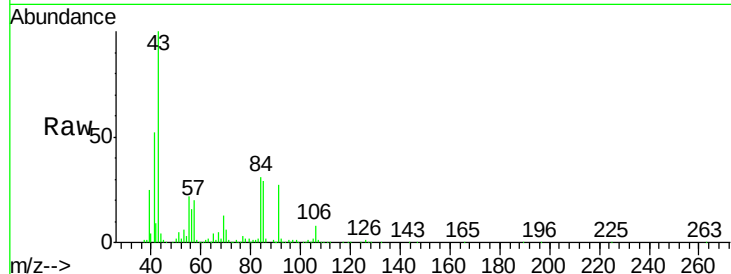
#58
Ethyl Benzene
Concen: 0.316 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion: 91 Resp: 195586
Ion Ratio Lower Upper
91 100
106 28.2 26.3 39.5

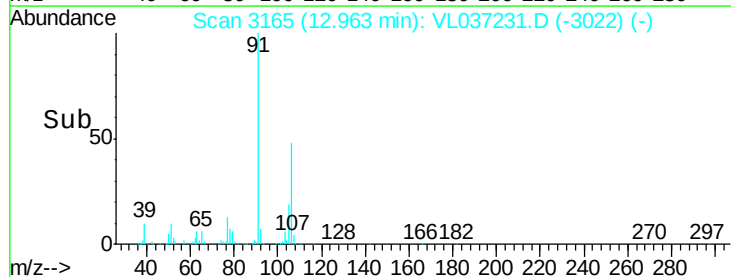
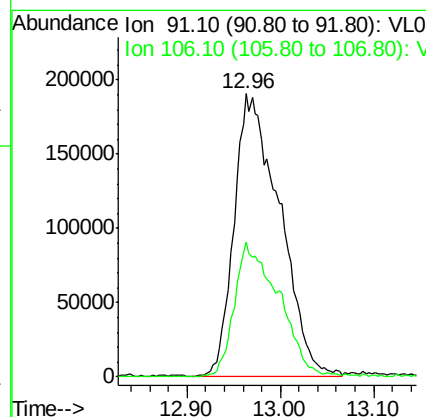
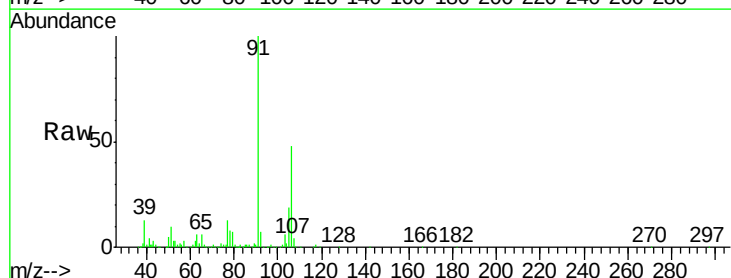
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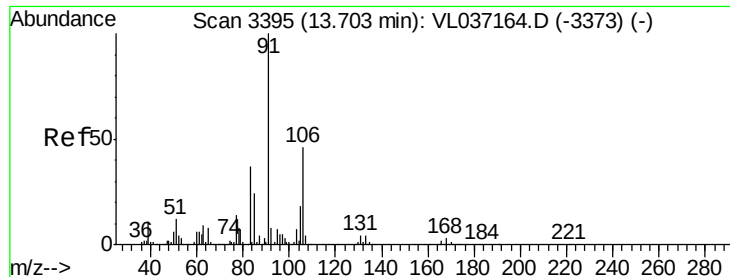
MMDadoda
6/24/2021 4:33:31 PM



#59
m/p-Xylene
Concen: 1.234 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Tgt Ion: 91 Resp: 648109
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#





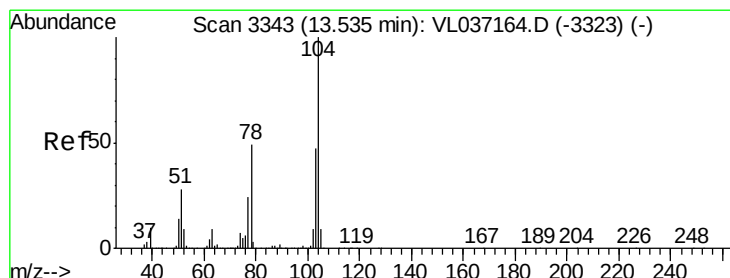
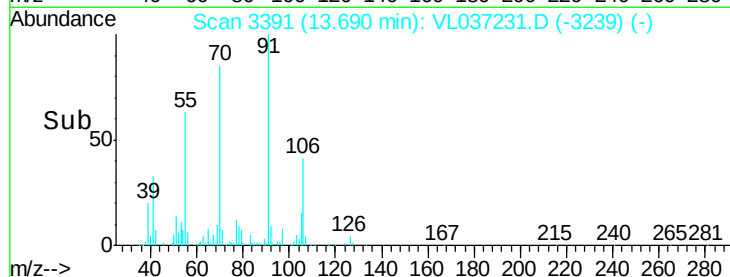
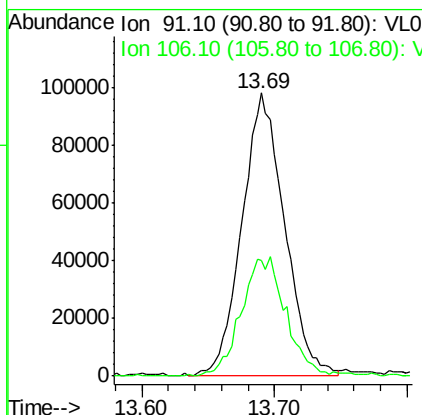
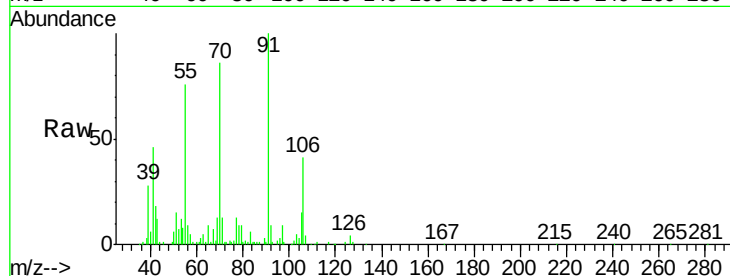
#60
o-Xylene
Concen: 0.435 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.3	23.0	69.0

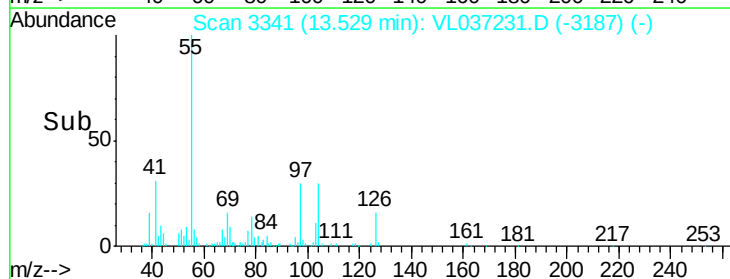
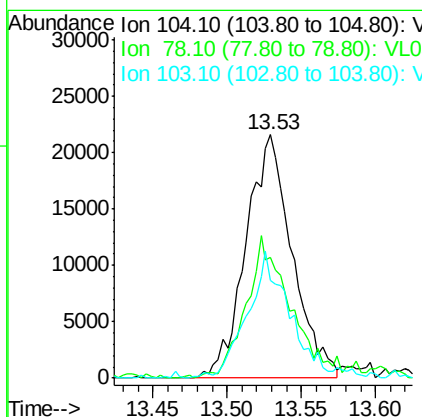
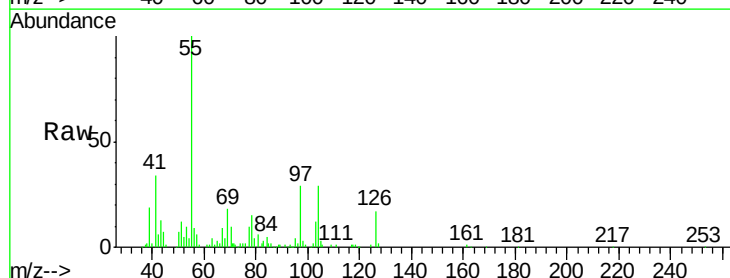
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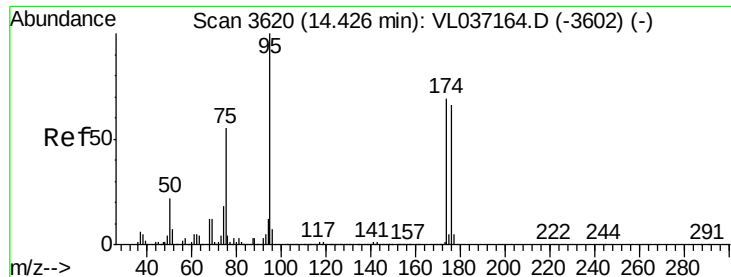
MMDadoda
6/24/2021 4:33:31 PM



#61
Styrene
Concen: 0.180 ppbv m
RT: 13.53 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL037231.D
Acq: 23 Jun 2021 00:31

Tgt Ion	Ratio	Lower	Upper
104	100		
78	56.7	39.7	59.5
103	50.0	37.6	56.4





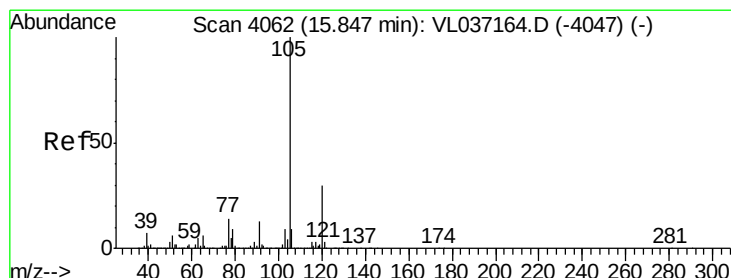
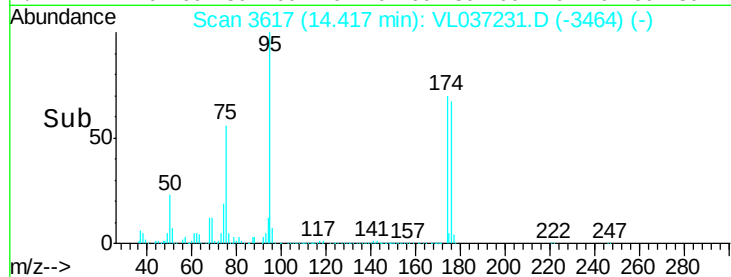
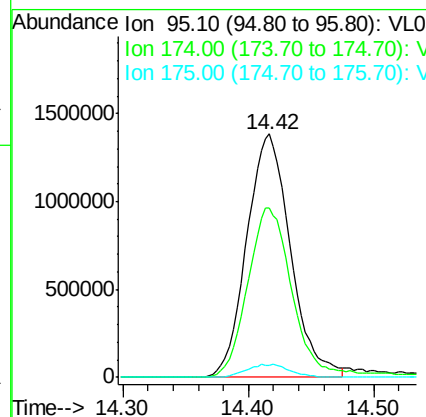
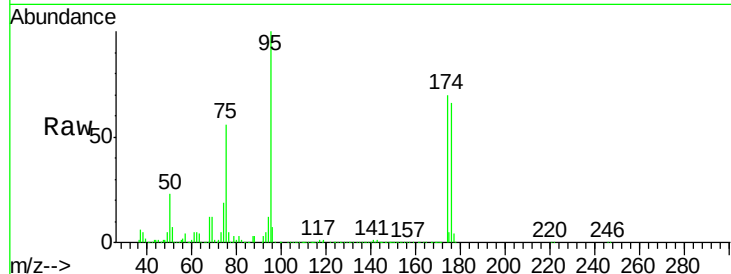
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.838 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL037231.D
 Acq: 23 Jun 2021 00:31

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion: 95 Resp: 3355878
 Ion Ratio Lower Upper
 95 100
 174 73.8 57.0 85.4
 175 5.3 4.4 6.6

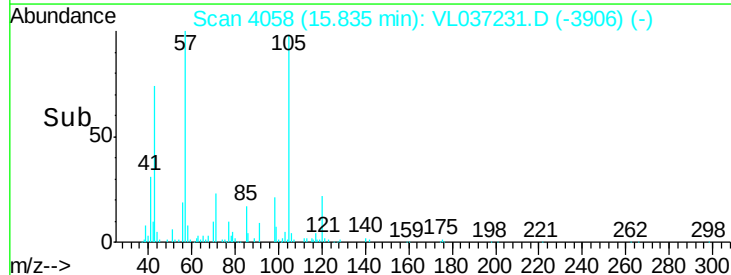
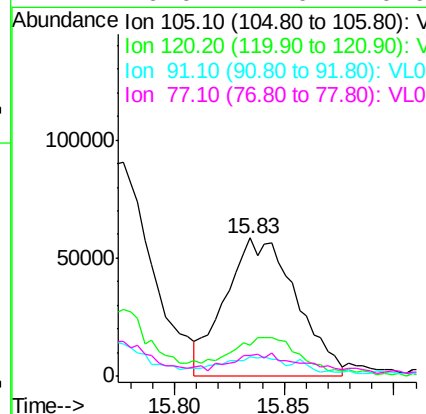
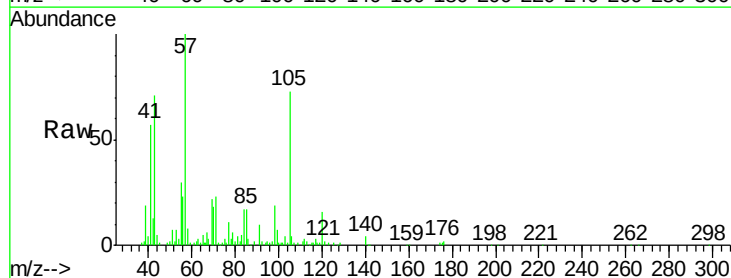
Manual Integrations
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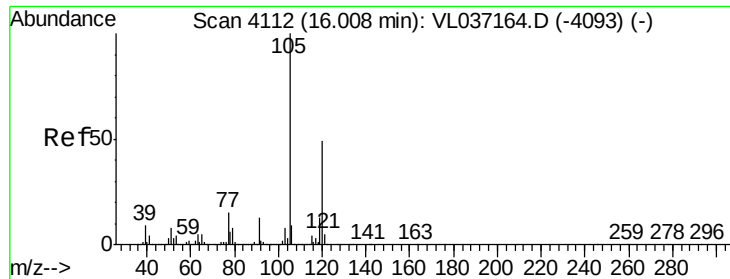
MMDadoda
 6/24/2021 4:33:31 PM



#72
 4-Ethyltoluene
 Concen: 0.232 ppbv m
 RT: 15.83 min Scan# 4058
 Delta R.T. -0.01 min
 Lab File: VL037231.D
 Acq: 23 Jun 2021 00:31

Tgt Ion: 105 Resp: 131732
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.7 37.1#
 91 16.5 10.2 15.4#
 77 0.0 11.0 16.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.158 ppbv m

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion:105 Resp: 87036

Ion Ratio Lower Upper

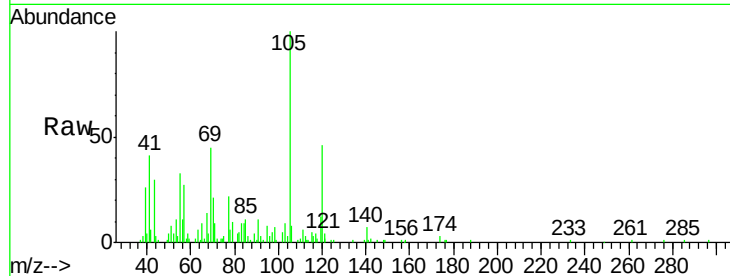
105 100

120 45.6 39.4 59.2

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.00

40000

30000

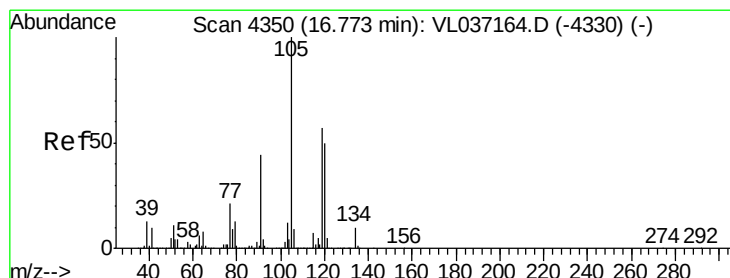
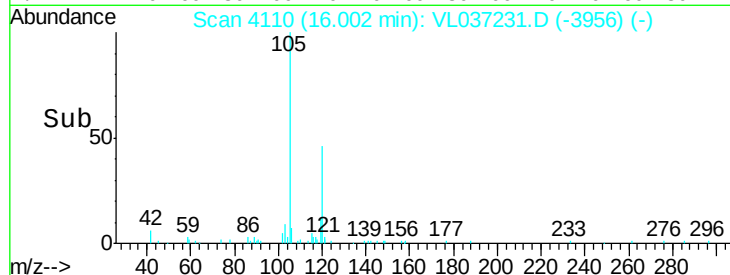
20000

10000

0

15.95 16.00 16.05

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.607 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL037231.D

Acq: 23 Jun 2021 00:31

Tgt Ion:105 Resp: 343242

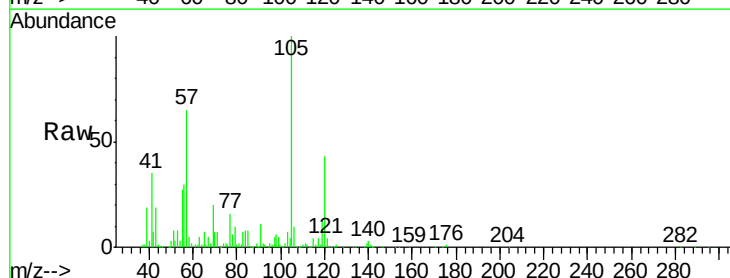
Ion Ratio Lower Upper

105 100

120 43.1 39.8 59.8

91 9.8 37.0 55.4#

77 13.8 17.0 25.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

16.76

200000

150000

100000

50000

0

16.70 16.75 16.80 16.85

Time-->

