

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037262.D
 Acq On : 29 Jun 2021 23:29
 Operator : SY/AP
 Sample : M2887-05 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5

Manual Integrations
 APPROVED

MMDadoda
 7/5/2021 3:39:06 PM

Quant Time: Jun 30 10:23:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	5.66	49	1685874	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	4855425	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4354233	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3267806	9.90	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	8119284	77.463	ppbv	96
10) Heptane	8.11	43	488506	1.924	ppbv	99
13) Ethanol	3.61	45	125814m	7.759	ppbv	
15) Acetone	3.84	43	3045200m	16.018	ppbv	
20) Methylene Chloride	4.34	84	2062998	18.126	ppbv	98
26) Hexane	5.68	57	1926229	9.260	ppbv #	43
30) Cyclohexane	7.12	84	82620	0.477	ppbv	90
34) 2-Butanone	5.24	43	1553155	8.225	ppbv	98
36) Benzene	6.88	78	904354	2.303	ppbv	98
51) 2-Hexanone	10.14	43	197727m	1.567	ppbv	
52) Tetrachloroethene	11.22	164	15246m	0.084	ppbv	
53) Toluene	9.80	91	865478	1.845	ppbv	99
58) Ethyl Benzene	12.70	91	187355	0.313	ppbv #	87
59) m/p-Xylene	12.95	91	354883	0.699	ppbv	96
60) o-Xylene	13.68	91	143646m	0.297	ppbv	
61) Styrene	13.51	104	32757m	0.131	ppbv	
69) p-Isopropyltoluene	17.64	119	208142m	0.303	ppbv	
72) 4-Ethyltoluene	15.83	105	55090m	0.100	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	56529	0.106	ppbv	96
74) 1,2,4-Trimethylbenzene	16.75	105	169040	0.309	ppbv #	68

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

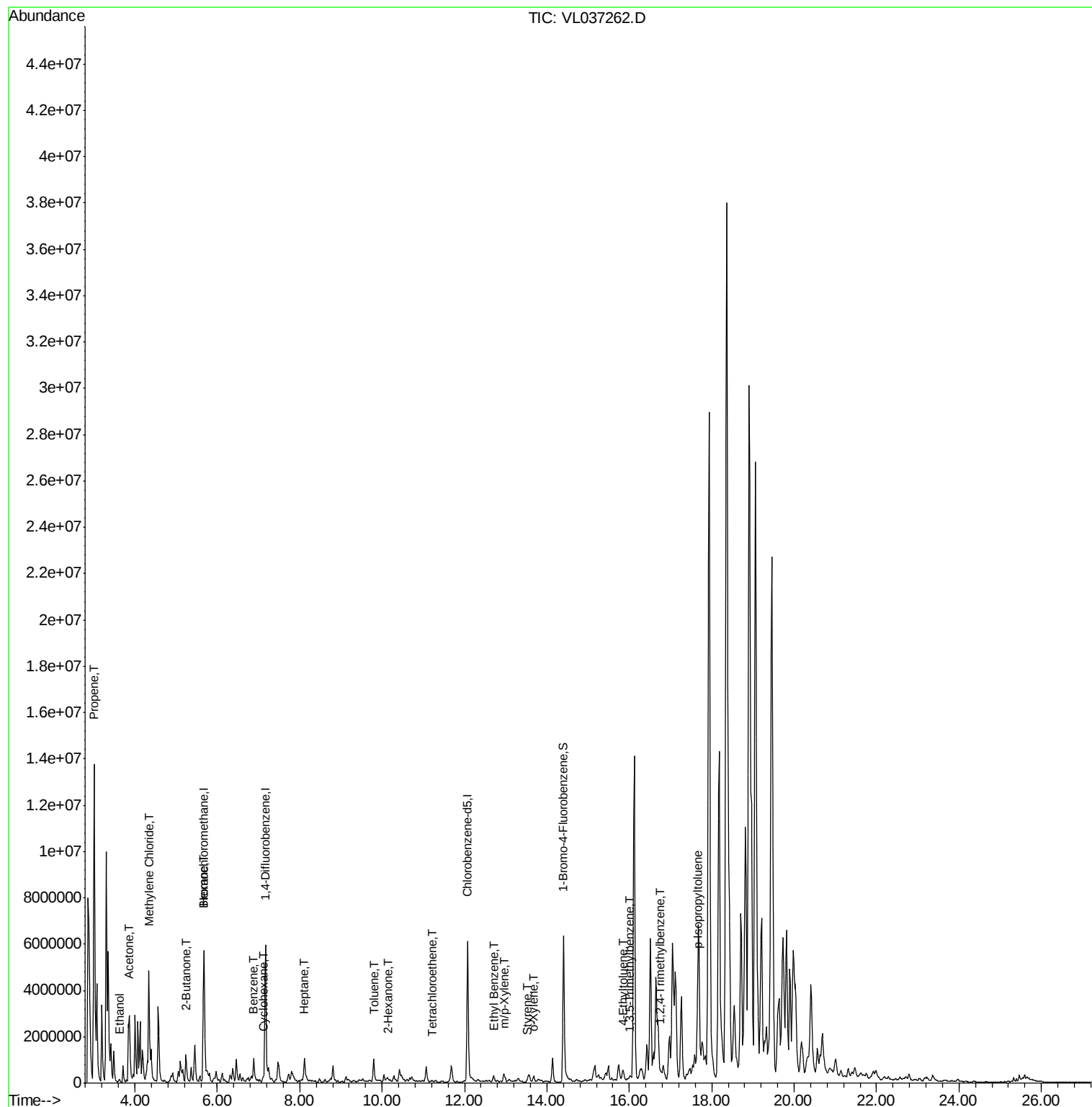
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062921\
Data File : VL037262.D
Acq On : 29 Jun 2021 23:29
Operator : SY/AP
Sample : M2887-05 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

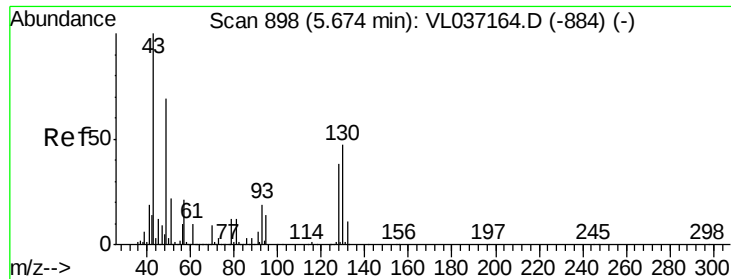
Instrument :
MSVOA_L
ClientSampleId :
SV-5

Manual Integrations
APPROVED

MMDadoda
7/5/2021 3:39:06 PM

Quant Time: Jun 30 10:23:39 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037262.D

Acq: 29 Jun 2021 23:29

Instrument :

MSVOA_L

ClientSampled :

SV-5

Tot Ion: 49 Resp: 1685874

Ion Ratio Lower Upper

49 100

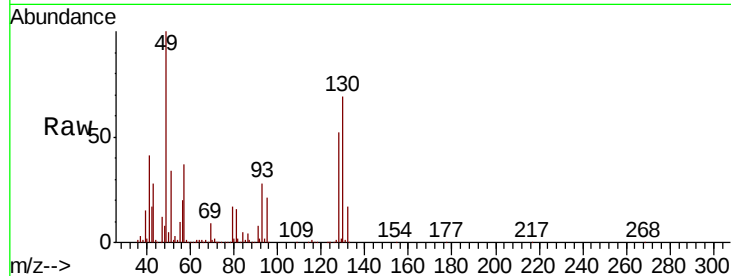
128 53.3 29.3 88.0

130 68.4 35.9 107.8

Manual Integrations
APPROVED

MMDadoda

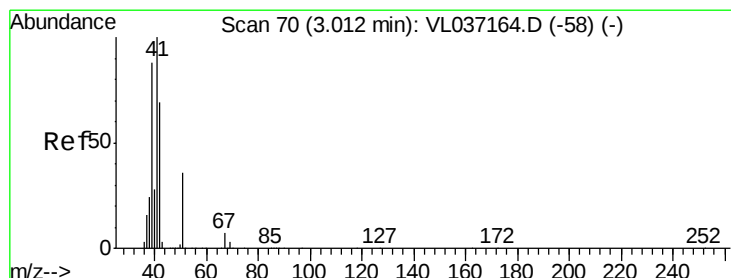
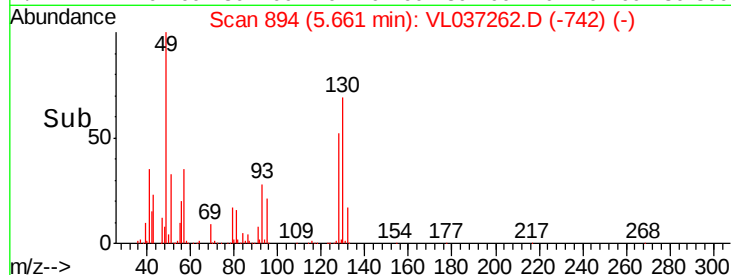
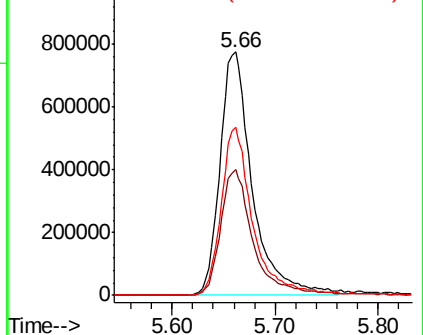
7/5/2021 3:39:06 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 77.463 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037262.D

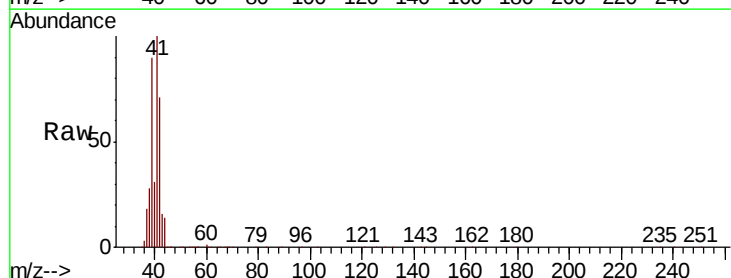
Acq: 29 Jun 2021 23:29

Tgt Ion: 41 Resp: 8119284

Ion Ratio Lower Upper

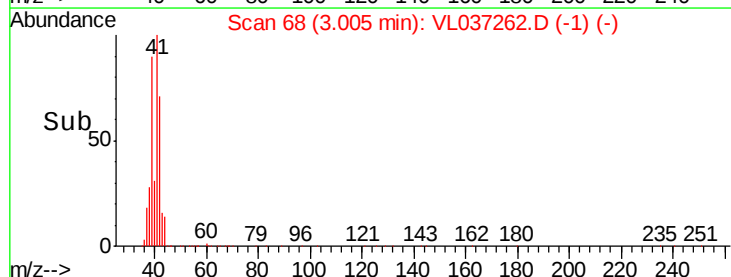
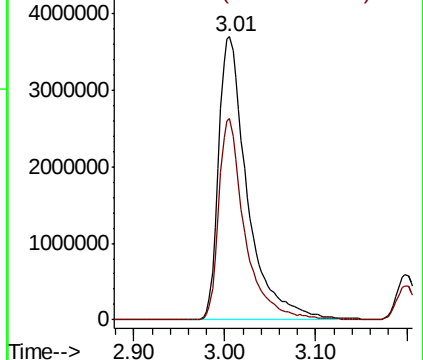
41 100

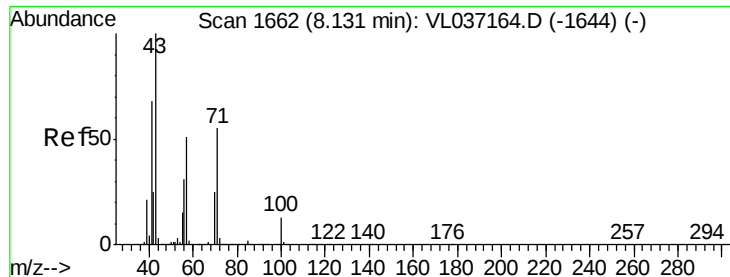
42 64.9 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





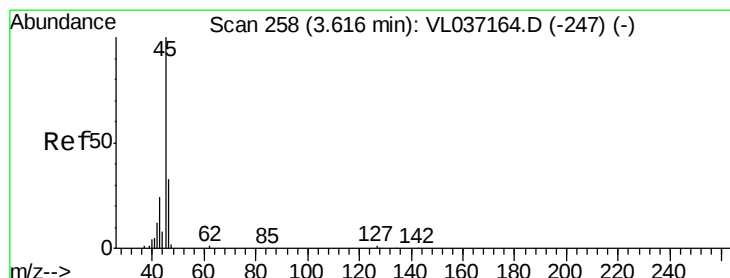
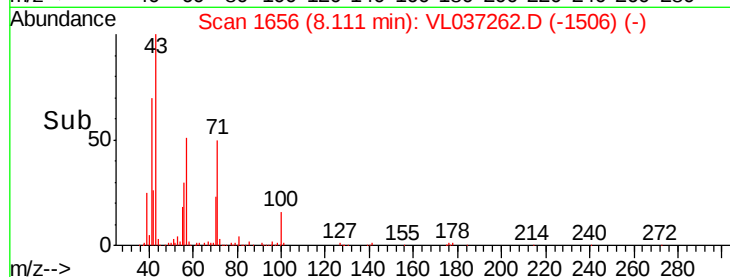
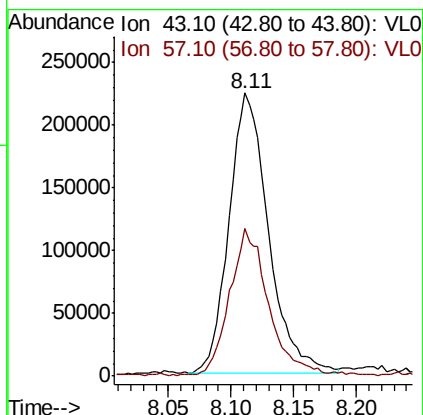
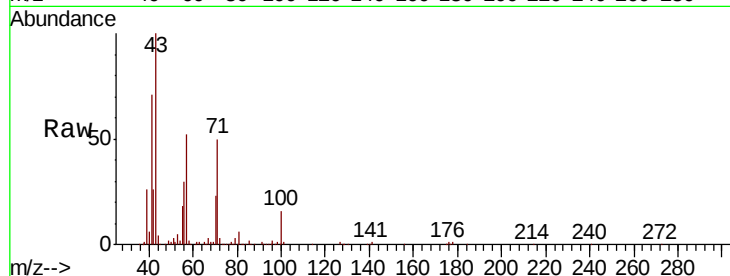
#10
Heptane
Concen: 1.924 ppbv
RT: 8.11 min Scan# 1656
Delta R.T. -0.02 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Instrument :
MSVOA_L
ClientSampled :
SV-5

Tot Ion: 43 Resp: 488506
Ion Ratio Lower Upper
43 100
57 51.8 40.6 61.0

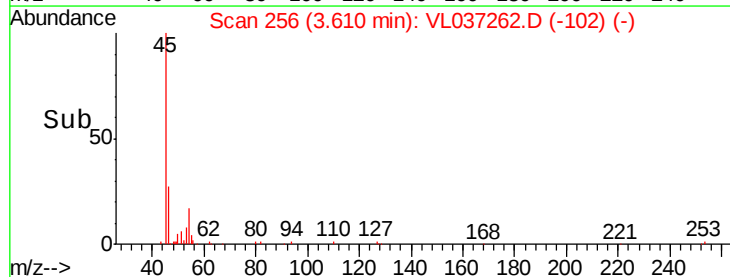
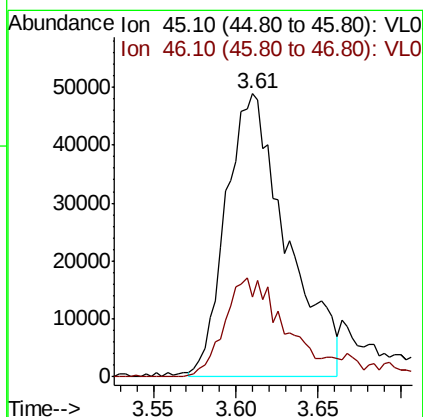
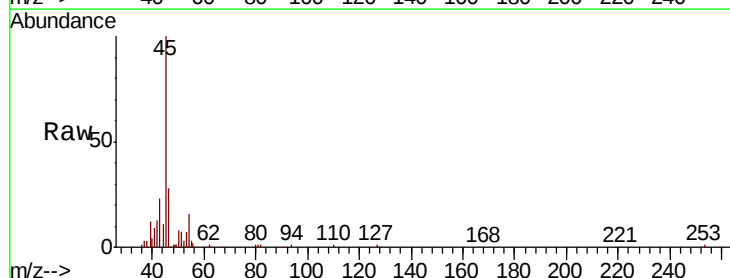
Manual Integrations
APPROVED

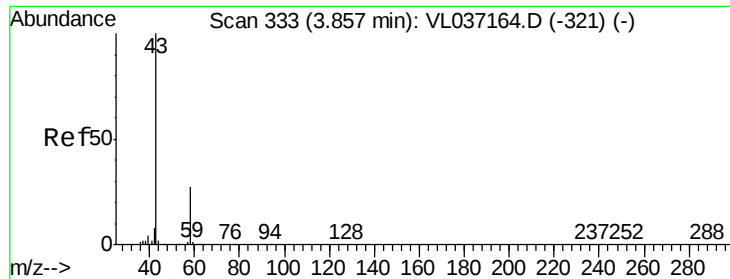
MMDadoda
7/5/2021 3:39:06 PM



#13
Ethanol
Concen: 7.759 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. -0.01 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Tgt Ion: 45 Resp: 125814
Ion Ratio Lower Upper
45 100
46 38.0 34.2 137.0





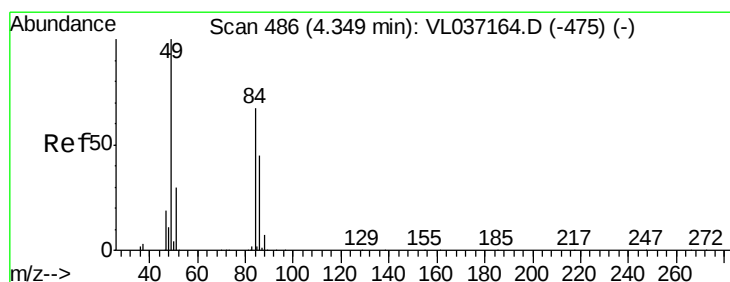
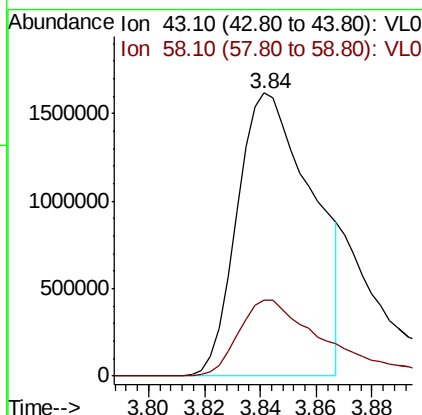
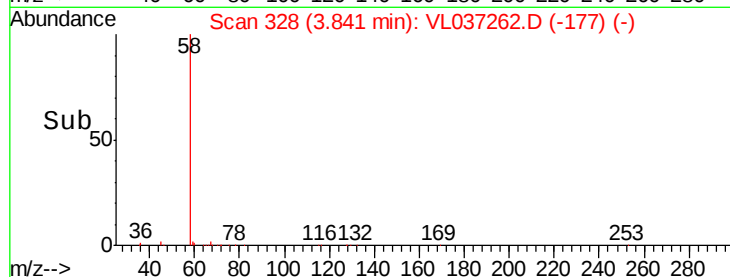
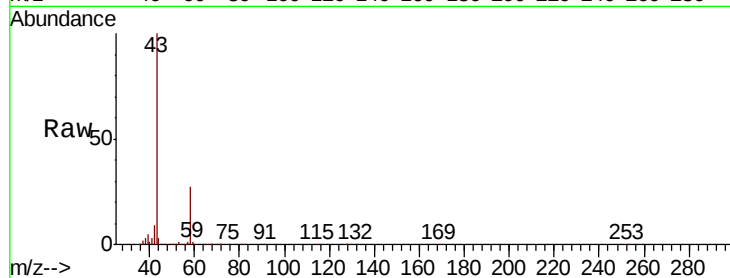
#15
Acetone
Concen: 16.018 ppbv m
RT: 3.84 min Scan# 328
Delta R.T. -0.02 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Instrument :
MSVOA_L
ClientSampleId :
SV-5

Tot Ion: 43 Resp: 3045200
Ion Ratio Lower Upper
43 100
58 33.7 23.7 35.5

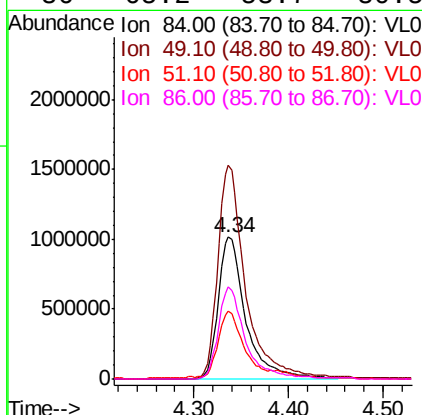
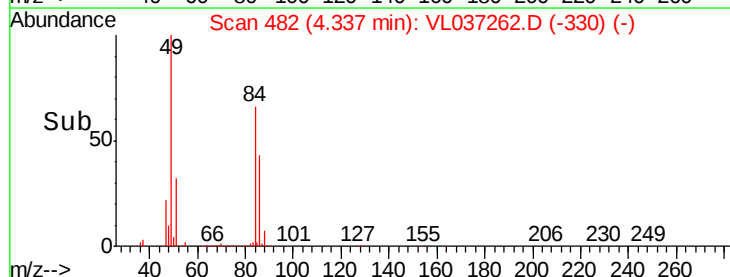
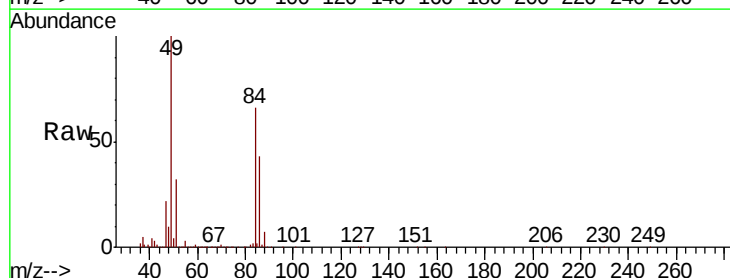
Manual Integrations
APPROVED

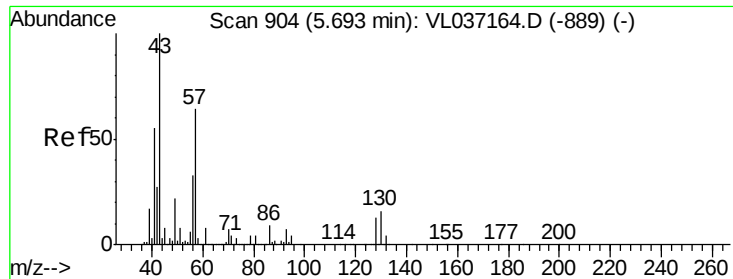
MMDadoda
7/5/2021 3:39:06 PM



#20
Methylene Chloride
Concen: 18.126 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Tgt Ion: 84 Resp: 2062998
Ion Ratio Lower Upper
84 100
49 150.3 119.7 179.5
51 47.4 36.1 54.1
86 65.2 53.7 80.5





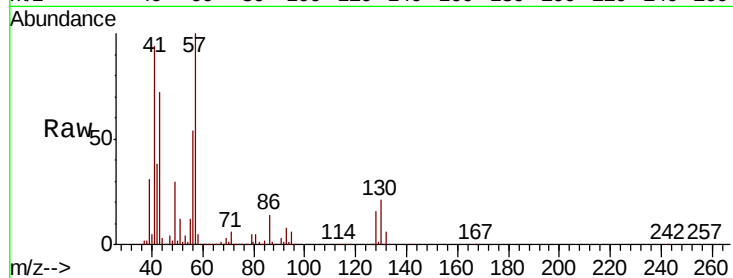
#26
Hexane
Concen: 9.260 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Instrument :
MSVOA_L
ClientSampled :
SV-5

Tot Ion	Ratio	Lower	Upper
57	100		
41	103.6	73.5	110.3
43	74.2	170.7	256.1#
56	57.7	42.4	63.6

Manual Integrations
APPROVED

MMDadoda
7/5/2021 3:39:06 PM



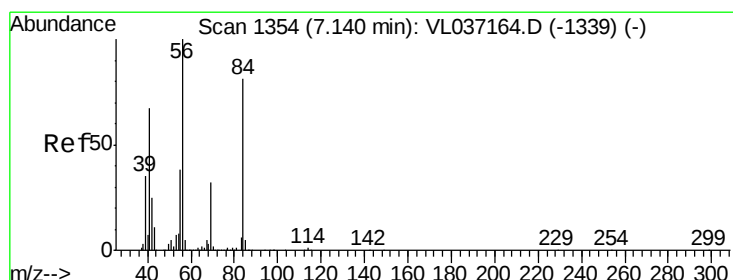
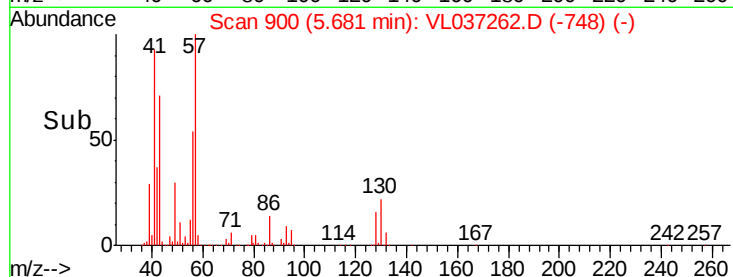
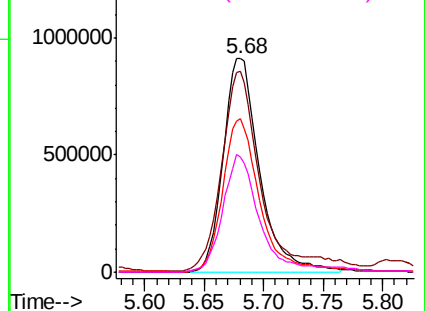
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

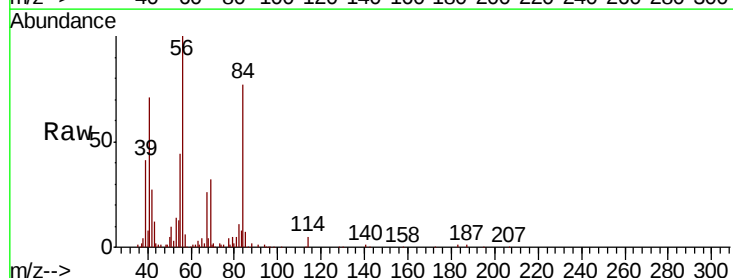
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.477 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. -0.02 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Tgt Ion	Ratio	Lower	Upper
84	100		
56	114.6	107.7	161.5
41	86.8	69.0	103.6

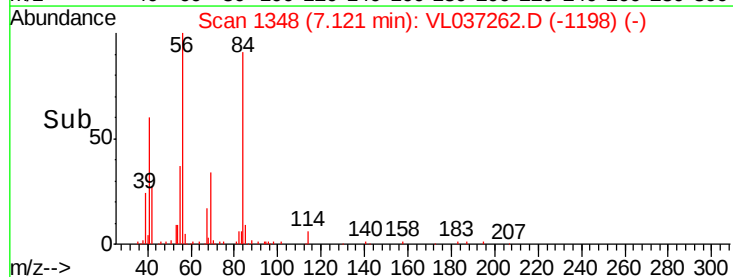
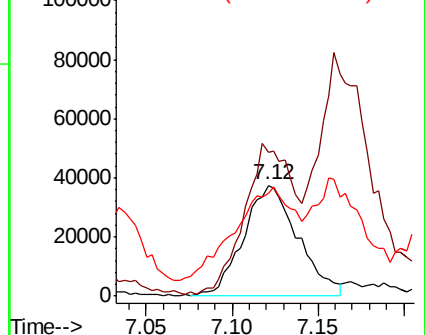


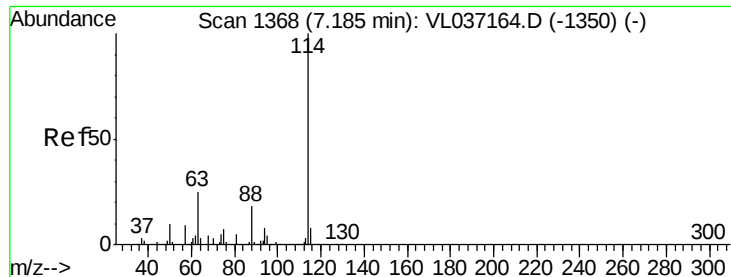
Abundance

Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





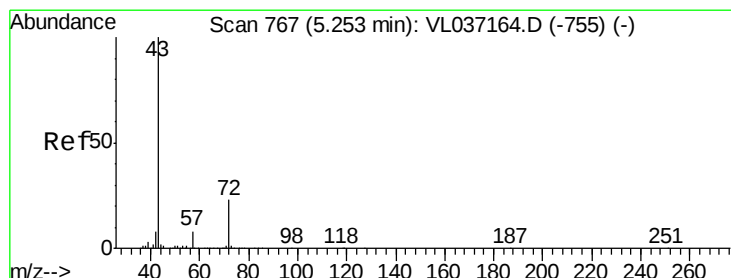
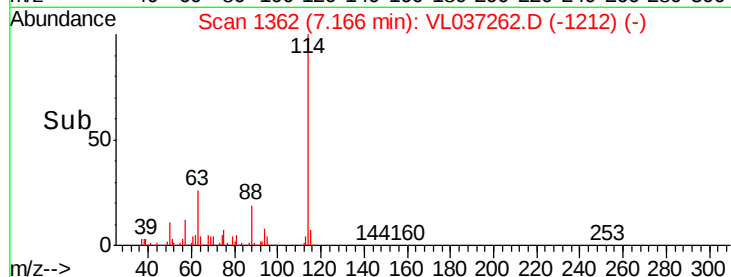
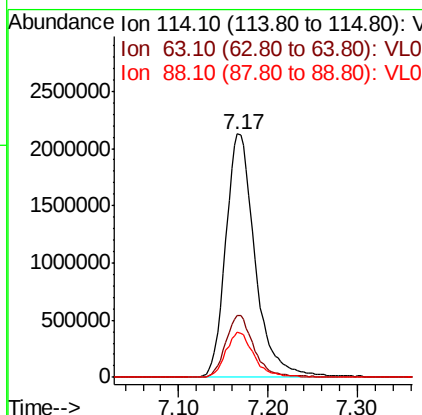
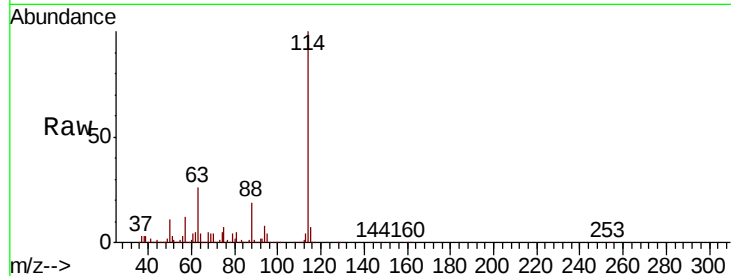
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL037262.D
 Acq: 29 Jun 2021 23:29

Instrument :
 MSVOA_L
 ClientSampled :
 SV-5

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.6	29.4
88	18.0	14.2	21.2

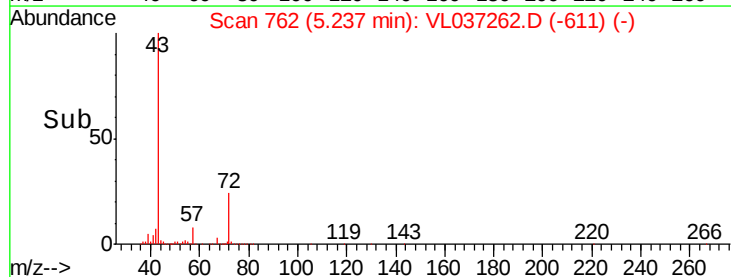
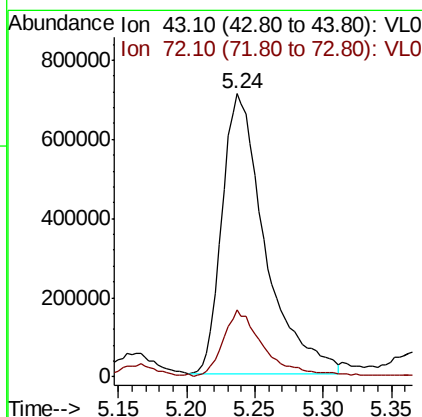
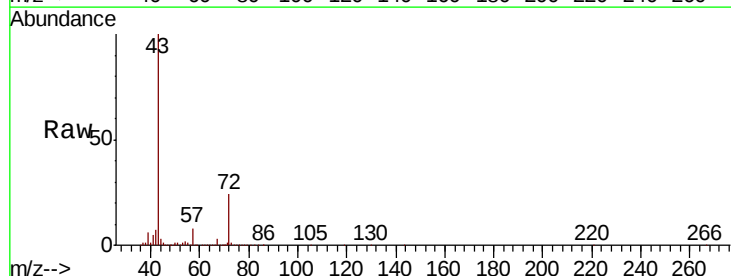
Manual Integrations
 APPROVED

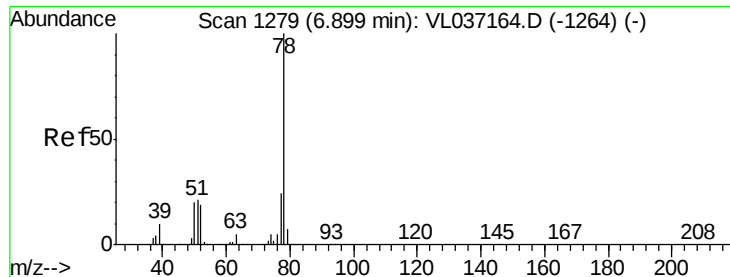
MMDadoda
 7/5/2021 3:39:06 PM



#34
 2-Butanone
 Concen: 8.225 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.02 min
 Lab File: VL037262.D
 Acq: 29 Jun 2021 23:29

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.9	28.3





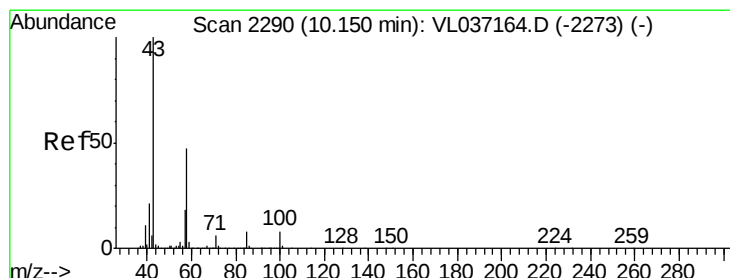
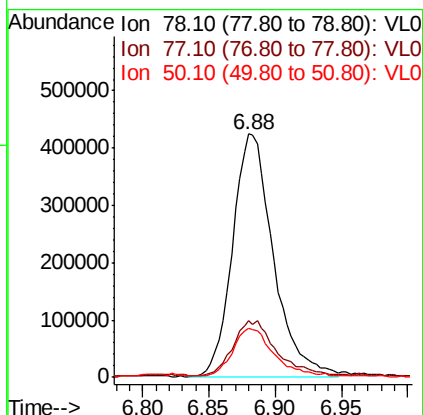
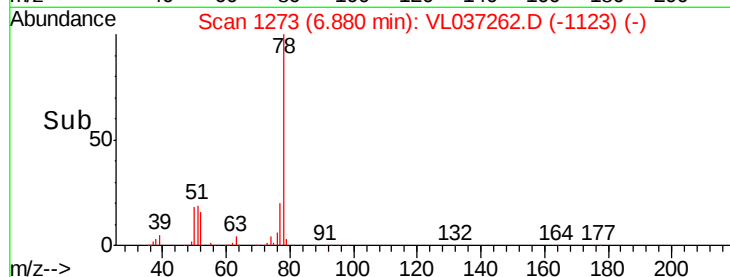
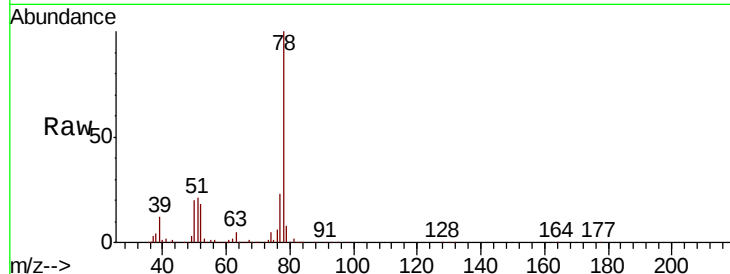
#36
Benzene
Concen: 2.303 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.02 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Instrument :
MSVOA_L
ClientSampled :
SV-5

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.3	19.0	28.6
50	19.6	15.7	23.5

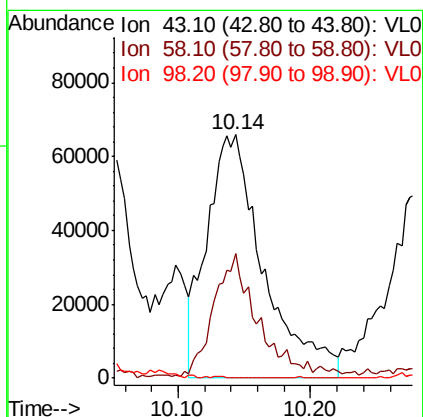
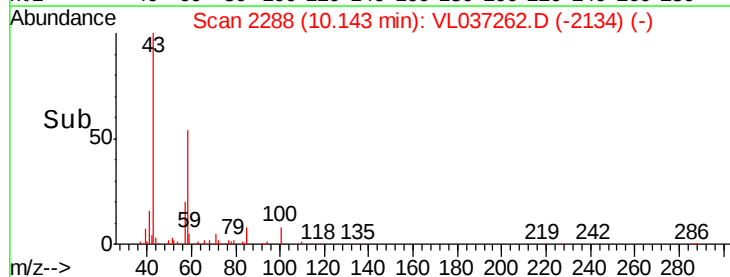
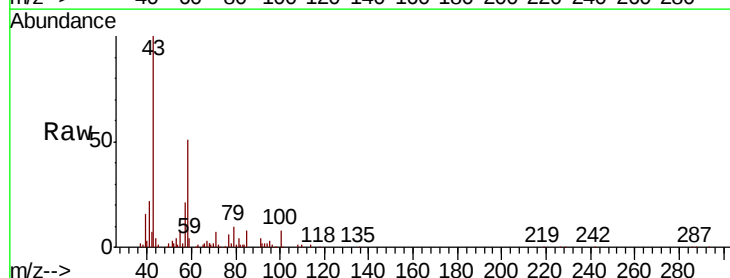
Manual Integrations
APPROVED

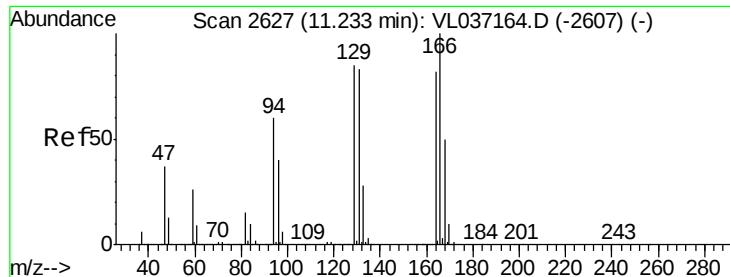
MMDadoda
7/5/2021 3:39:06 PM



#51
2-Hexanone
Concen: 1.567 ppbv m
RT: 10.14 min Scan# 2288
Delta R.T. -0.01 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.4	57.6#
98	0.3	0.3	0.5#





#52

Tetrachloroethene

Concen: 0.084 ppbv m

RT: 11.22 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL037262.D

Acq: 29 Jun 2021 23:29

Instrument :

MSVOA_L

ClientSampled :

SV-5

Tot Ion:164 Resp: 15246

Ion Ratio Lower Upper

164 100

166 96.2 97.6 146.4#

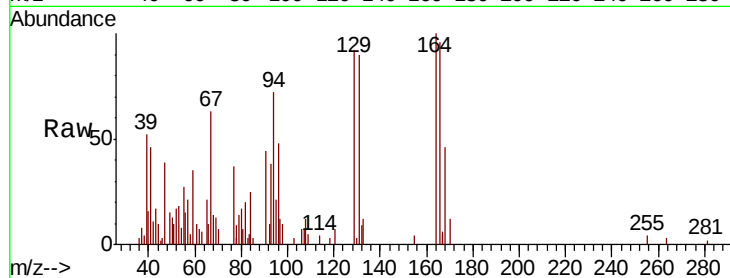
129 91.6 82.9 124.3

131 90.2 80.6 120.8

Manual Integrations
APPROVED

MMDadoda

7/5/2021 3:39:06 PM

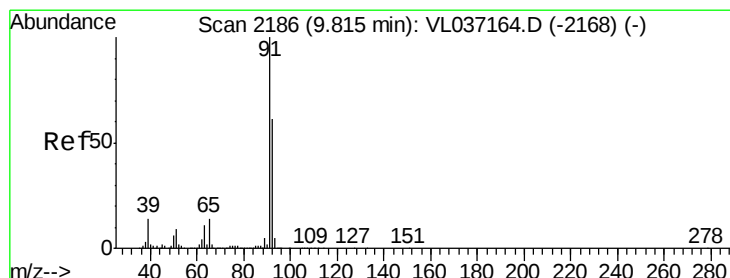
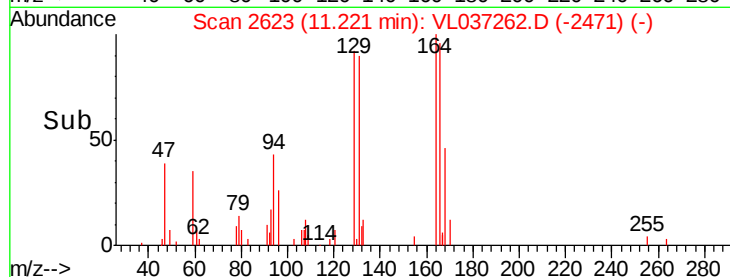
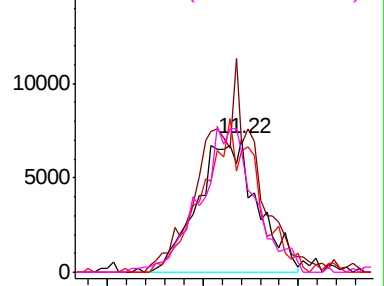


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.845 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL037262.D

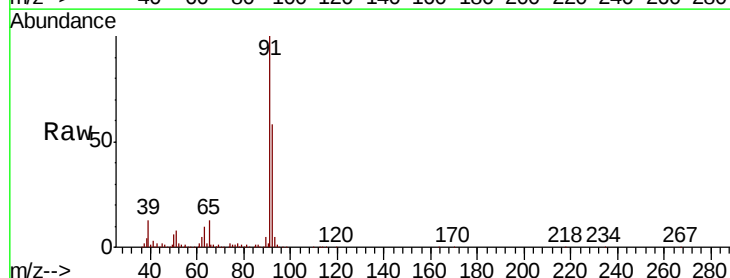
Acq: 29 Jun 2021 23:29

Tgt Ion: 91 Resp: 865478

Ion Ratio Lower Upper

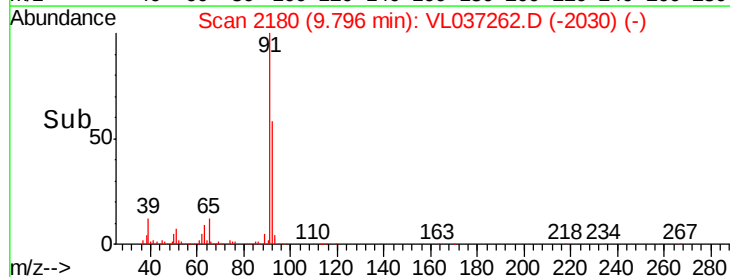
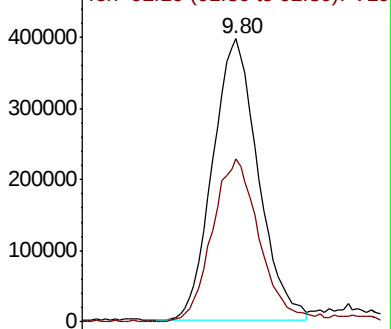
91 100

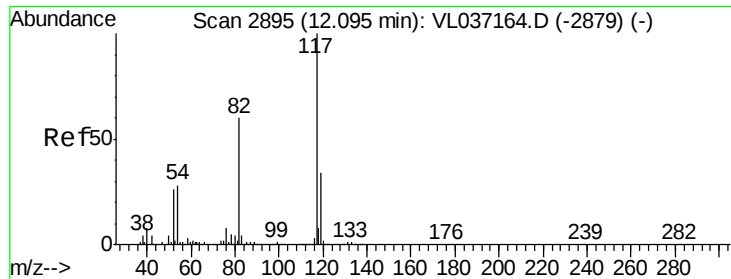
92 59.9 48.3 72.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





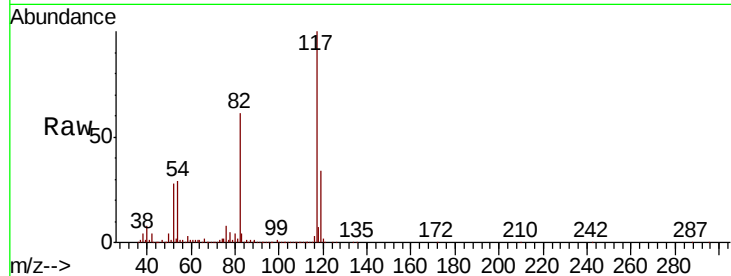
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.02 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Instrument :
MSVOA_L
ClientSampleId :
SV-5

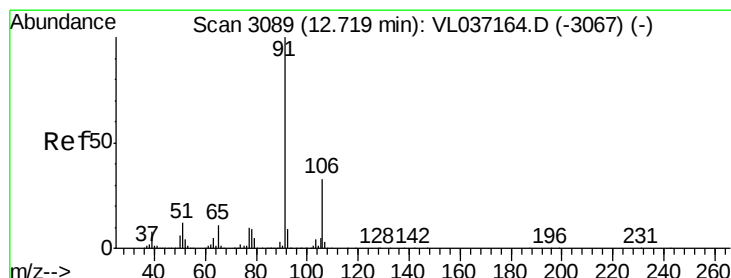
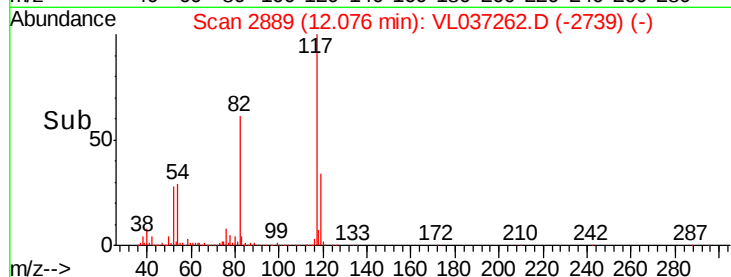
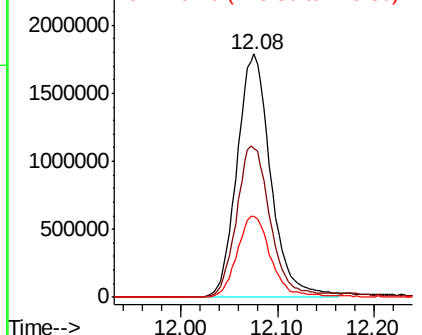
Tot Ion:117 Resp: 4354233
Ion Ratio Lower Upper
117 100
82 62.5 51.7 77.5
119 33.8 47.6 71.4#

Manual Integrations
APPROVED

MMDadoda
7/5/2021 3:39:06 PM

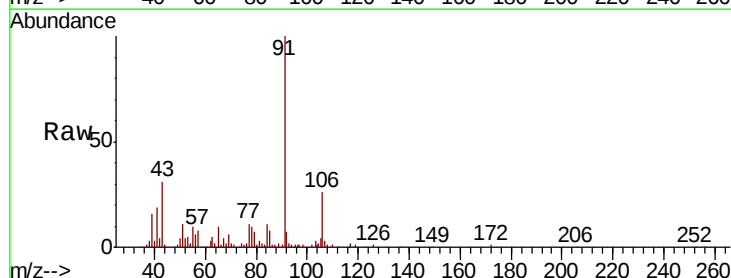


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

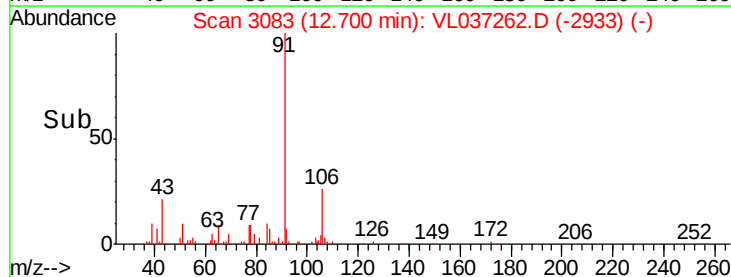
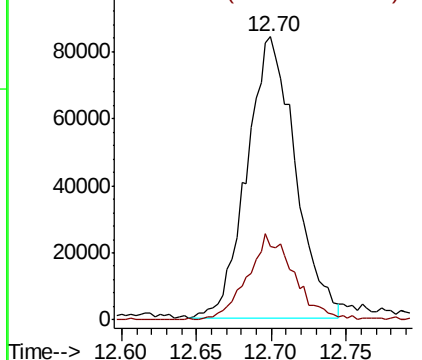


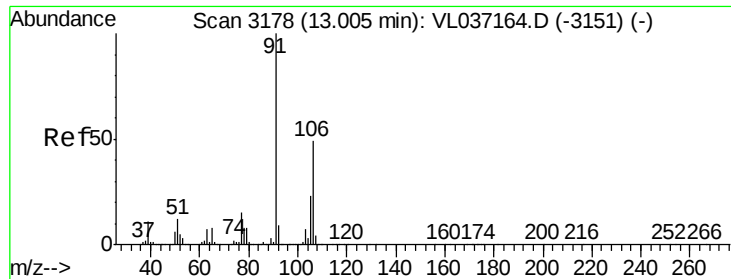
#58
Ethyl Benzene
Concen: 0.313 ppbv
RT: 12.70 min Scan# 3083
Delta R.T. -0.02 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Tgt Ion: 91 Resp: 187355
Ion Ratio Lower Upper
91 100
106 25.5 26.3 39.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





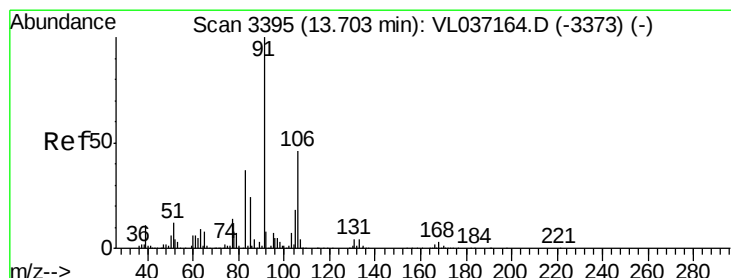
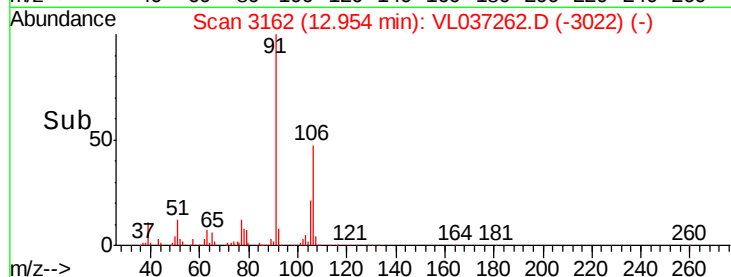
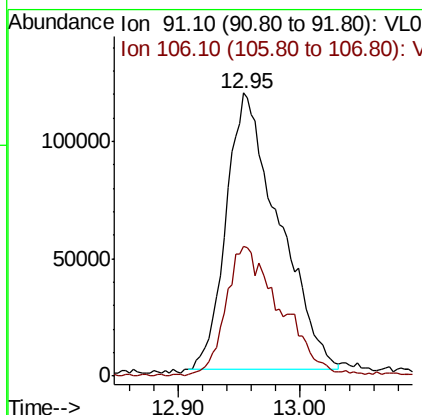
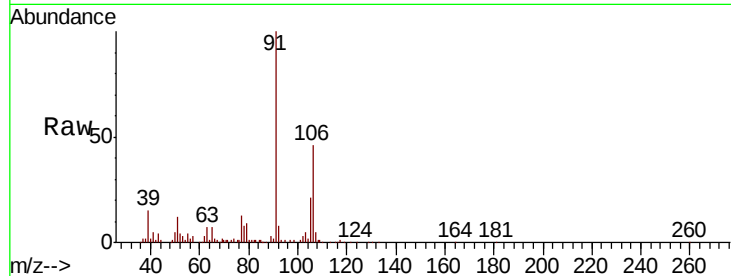
#59
m/p-Xylene
Concen: 0.699 ppbv
RT: 12.95 min Scan# 3162
Delta R.T. -0.05 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Instrument :
MSVOA_L
ClientSampled :
SV-5

Tot Ion: 91 Resp: 354883
Ion Ratio Lower Upper
91 100
106 48.8 37.0 55.4

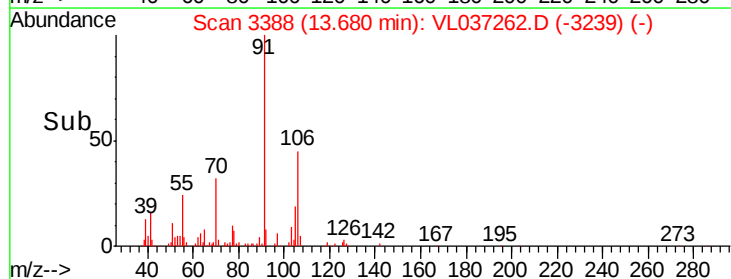
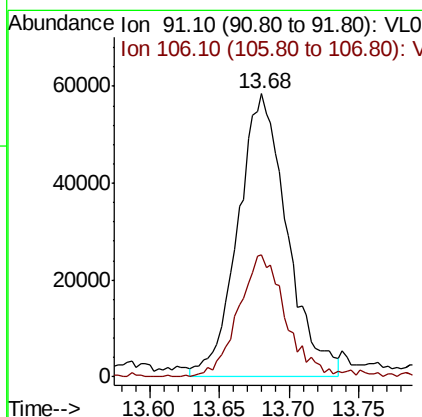
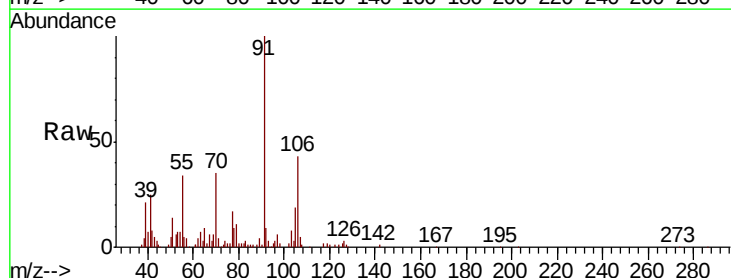
Manual Integrations
APPROVED

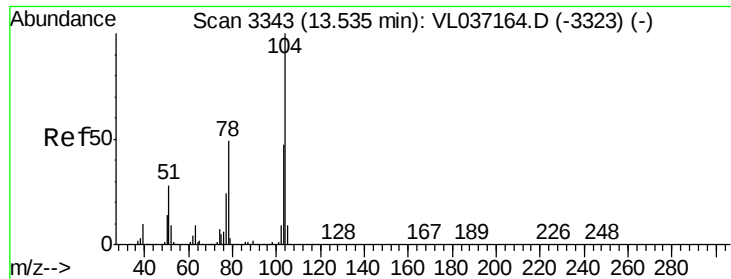
MMDadoda
7/5/2021 3:39:06 PM



#60
o-Xylene
Concen: 0.297 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.02 min
Lab File: VL037262.D
Acq: 29 Jun 2021 23:29

Tgt Ion: 91 Resp: 143646
Ion Ratio Lower Upper
91 100
106 42.3 23.0 69.0





#61

Stvrene

Concen: 0.131 ppbv m

RT: 13.51 min Scan# 3336

Delta R.T. -0.02 min

Lab File: VL037262.D

Acq: 29 Jun 2021 23:29

Instrument :

MSVOA_L

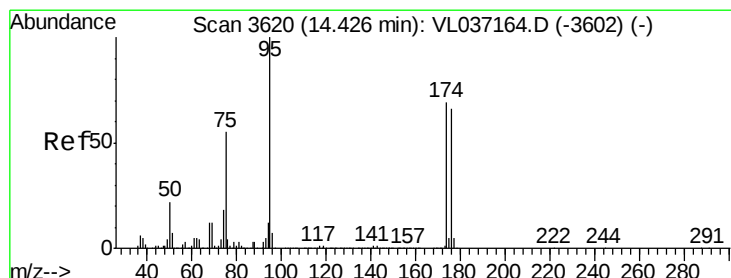
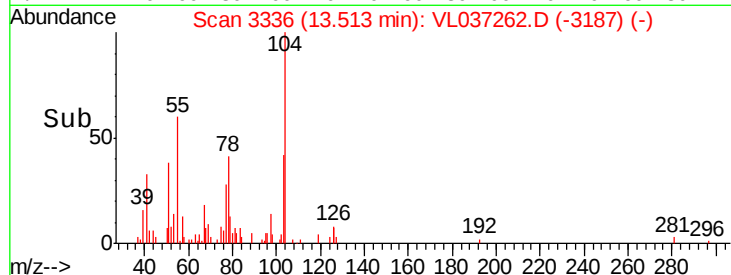
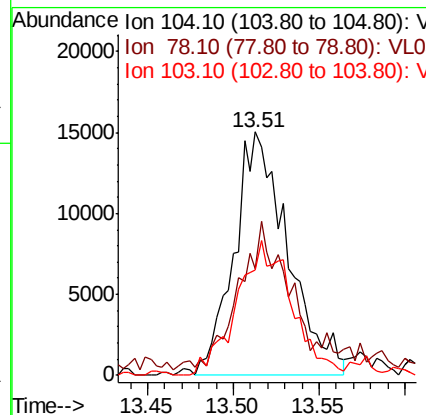
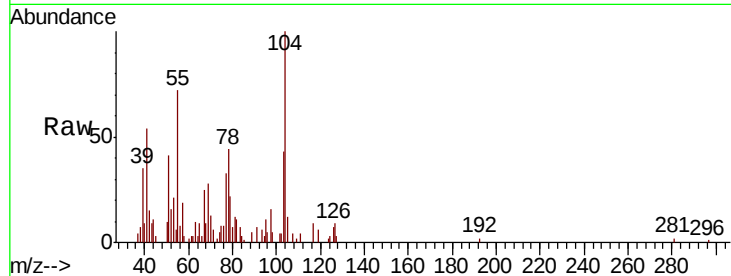
ClientSampled :

SV-5

Tot Ion:	104	Resp:	32757
Ion Ratio	Lower	Upper	
104	100		
78	62.0	39.7	59.5#
103	60.2	37.6	56.4#

Manual Integrations
APPROVED

MMDadoda
7/5/2021 3:39:06 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.904 ppbv

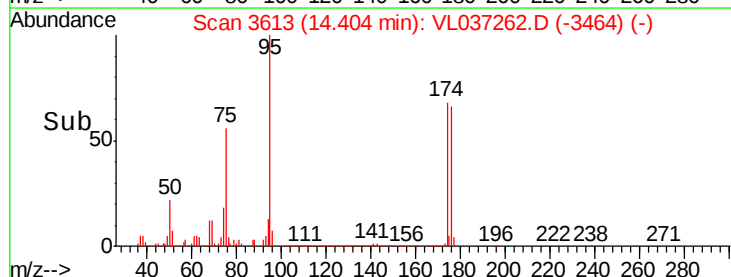
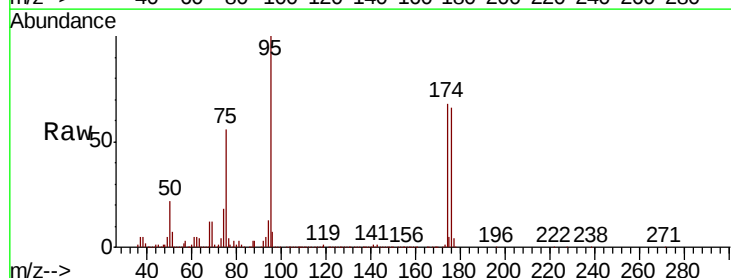
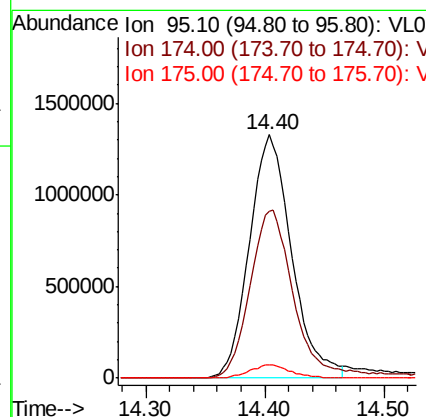
RT: 14.40 min Scan# 3613

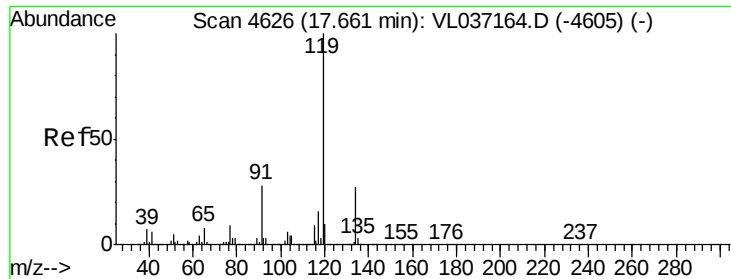
Delta R.T. -0.02 min

Lab File: VL037262.D

Acq: 29 Jun 2021 23:29

Tgt Ion:	95	Resp:	3267806
Ion Ratio	Lower	Upper	
95	100		
174	74.8	57.0	85.4
175	5.8	4.4	6.6





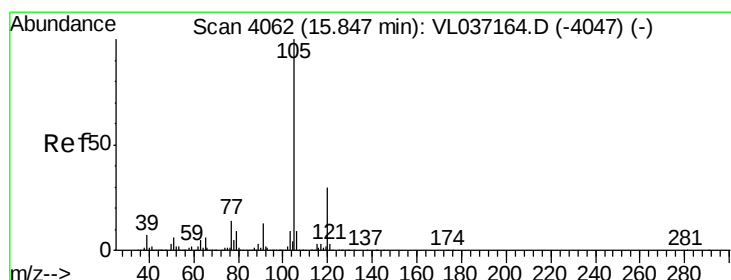
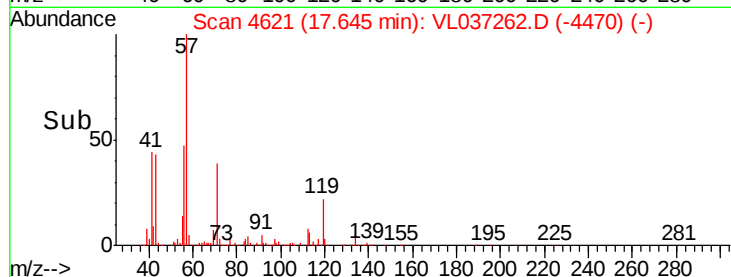
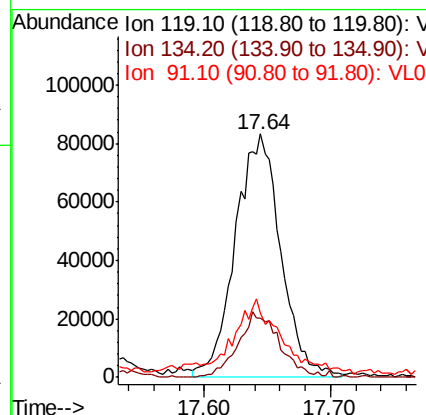
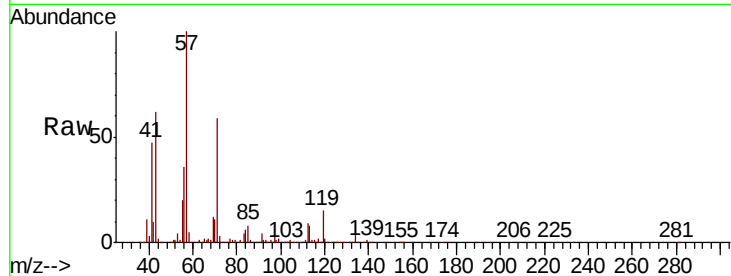
#69
 p-Isopropyltoluene
 Concen: 0.303 ppbv m
 RT: 17.64 min Scan# 4621
 Delta R.T. -0.02 min
 Lab File: VL037262.D
 Acq: 29 Jun 2021 23:29

Instrument :
 MSVOA_L
 ClientSampled :
 SV-5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	208142		
134	24.5	20.9	31.3	
91	0.0	22.6	34.0#	

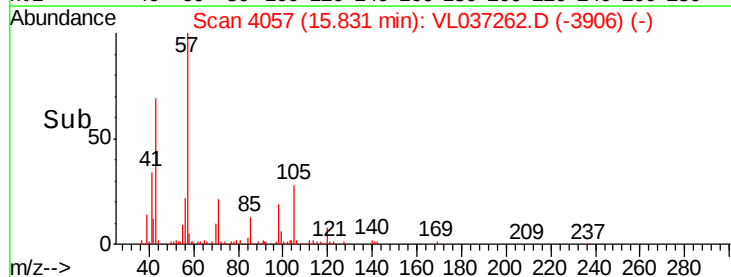
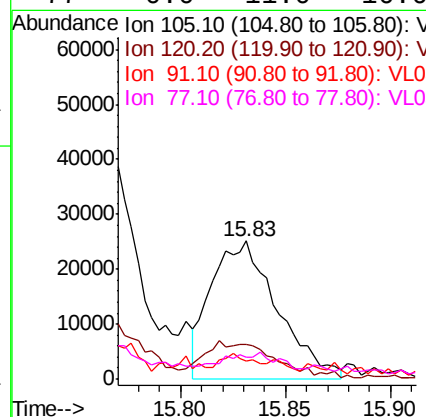
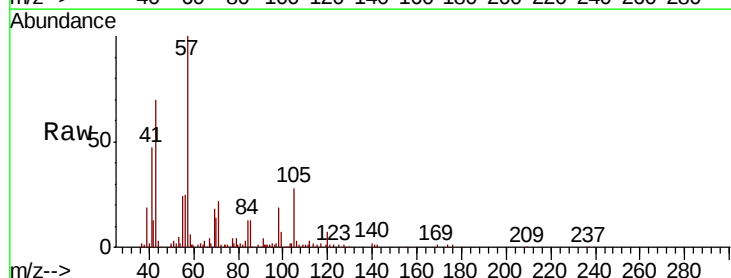
Manual Integrations
 APPROVED

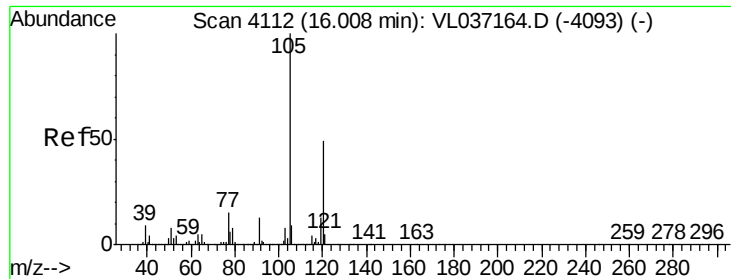
MMDadoda
 7/5/2021 3:39:06 PM



#72
 4-Ethyltoluene
 Concen: 0.100 ppbv m
 RT: 15.83 min Scan# 4057
 Delta R.T. -0.02 min
 Lab File: VL037262.D
 Acq: 29 Jun 2021 23:29

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	55090		
120	27.7	24.7	37.1	
91	13.3	10.2	15.4	
77	0.0	11.0	16.6#	





#73

1,3,5-Trimethylbenzene

Concen: 0.106 ppbv

RT: 15.99 min Scan# 4107

Delta R.T. -0.02 min

Lab File: VL037262.D

Acq: 29 Jun 2021 23:29

Instrument :

MSVOA_L

ClientSampled :

SV-5

Tot Ion:105 Resp: 56529

Ion Ratio Lower Upper

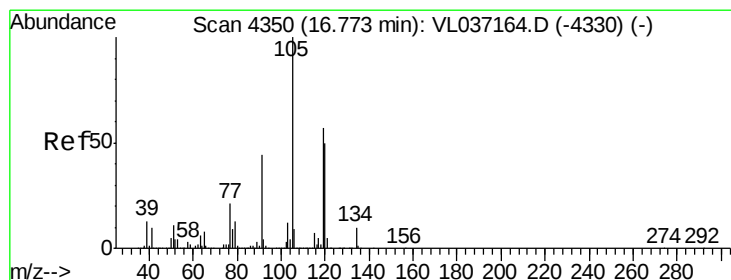
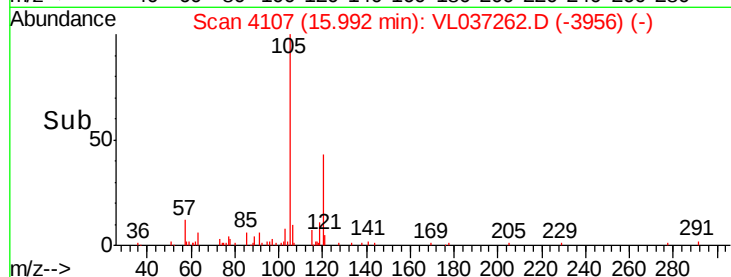
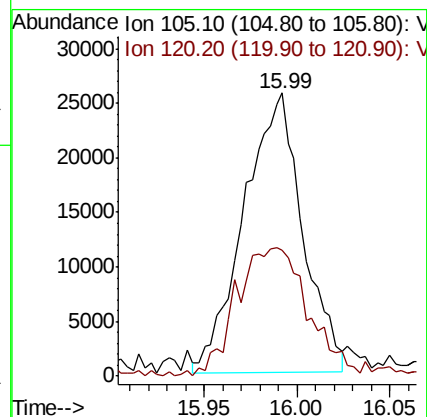
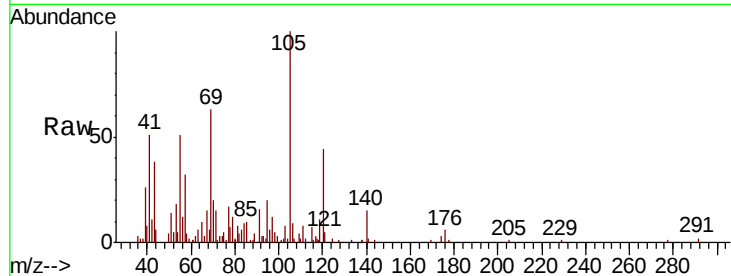
105 100

120 46.5 39.4 59.2

Manual Integrations
APPROVED

MMDadoda

7/5/2021 3:39:06 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.309 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.02 min

Lab File: VL037262.D

Acq: 29 Jun 2021 23:29

Tgt Ion:105 Resp: 169040

Ion Ratio Lower Upper

105 100

120 37.8 39.8 59.8#

91 11.5 37.0 55.4#

77 12.3 17.0 25.4#

