

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037230.D
 Acq On : 22 Jun 2021 23:53
 Operator : SY/AP
 Sample : M2797-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

MMDadoda
 6/24/2021 4:33:28 PM

Quant Time: Jun 23 07:37:23 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	5.67	49	1864415	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5187537	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4738632	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3528865	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	3584690	9.888	ppbv	100
9) Propene	3.01	41	3799190	32.775	ppbv	96
10) Heptane	8.12	43	249722	0.890	ppbv	97
13) Ethanol	3.61	45	509854	28.434	ppbv	49
15) Acetone	3.84	43	15083752	71.743	ppbv #	81
17) tert-Butyl alcohol	4.30	59	285690	1.470	ppbv	98
20) Methylene Chloride	4.35	84	126318	1.004	ppbv	97
26) Hexane	5.68	57	225161m	0.979	ppbv	
27) Carbon Disulfide	4.55	76	635557	2.820	ppbv	99
30) Cyclohexane	7.13	84	65478	0.342	ppbv #	61
34) 2-Butanone	5.24	43	20834006	103.267	ppbv #	80
36) Benzene	6.89	78	13431605	32.020	ppbv #	86
41) Tetrahydrofuran	6.06	42	90119m	0.962	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	375602	1.355	ppbv	100
51) 2-Hexanone	10.13	43	2811888	20.855	ppbv #	100
52) Tetrachloroethene	11.22	164	605125	3.105	ppbv	97
53) Toluene	9.81	91	5980761	11.936	ppbv	99
58) Ethyl Benzene	12.71	91	593693	0.910	ppbv	95
59) m/p-Xylene	12.97	91	1069729	1.935	ppbv	97
60) o-Xylene	13.69	91	313953	0.596	ppbv	98
72) 4-Ethyltoluene	15.84	105	133653m	0.224	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	81978	0.142	ppbv	96
74) 1,2,4-Trimethylbenzene	16.77	105	347906m	0.584	ppbv	

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

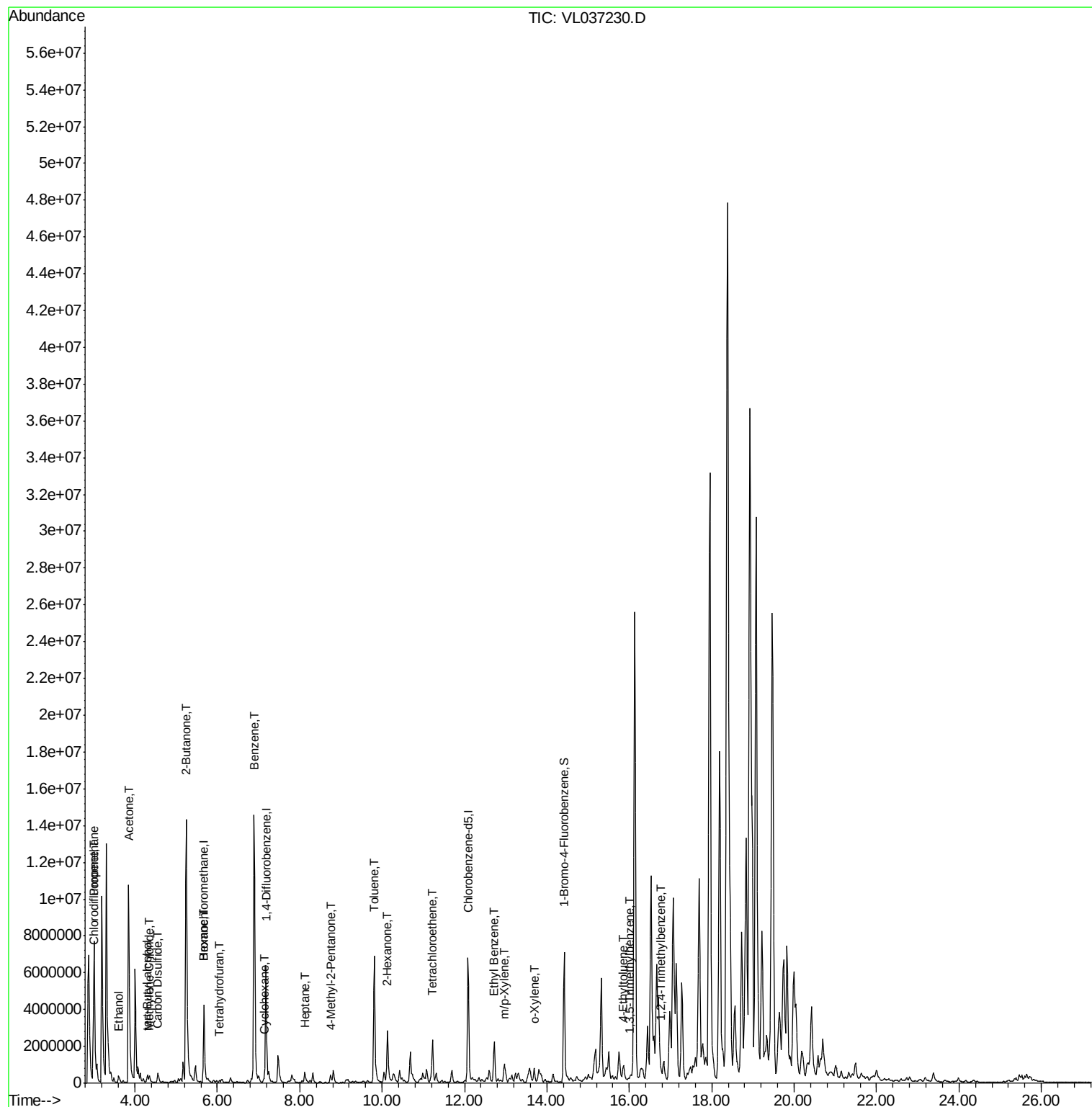
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062221\
Data File : VL037230.D
Acq On : 22 Jun 2021 23:53
Operator : SY/AP
Sample : M2797-01 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

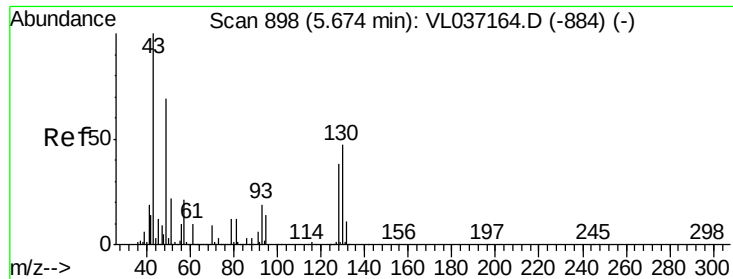
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

MMDadoda
6/24/2021 4:33:28 PM

Quant Time: Jun 23 07:37:23 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# 897

Delta R.T. -0.00 min

Lab File: VL037230.D

Acq: 22 Jun 2021 23:53

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 49 Resp: 1864415

Ion Ratio Lower Upper

49 100

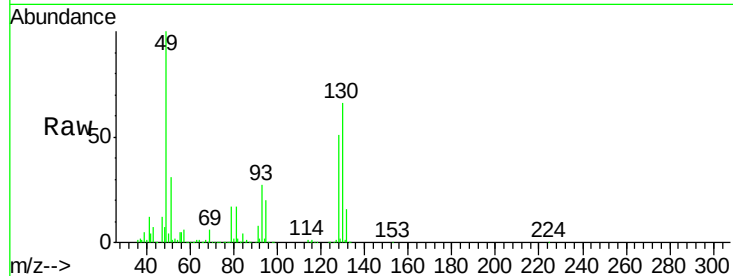
128 53.8 29.3 88.0

130 69.3 35.9 107.8

Manual Integrations
APPROVED

MMDadoda

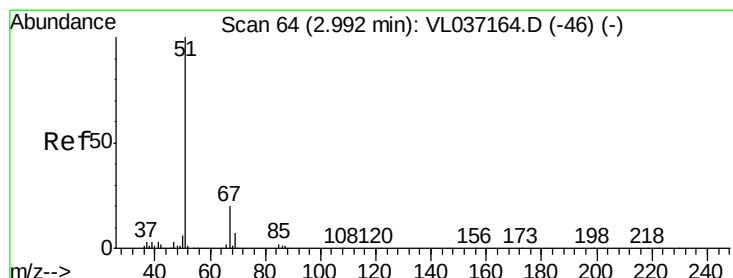
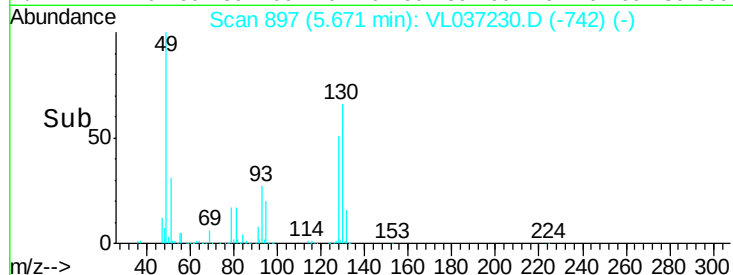
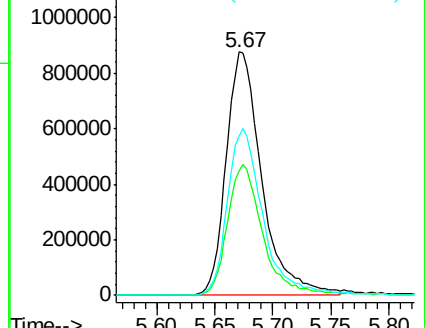
6/24/2021 4:33:28 PM



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



#3

Chlorodifluoromethane

Concen: 9.888 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL037230.D

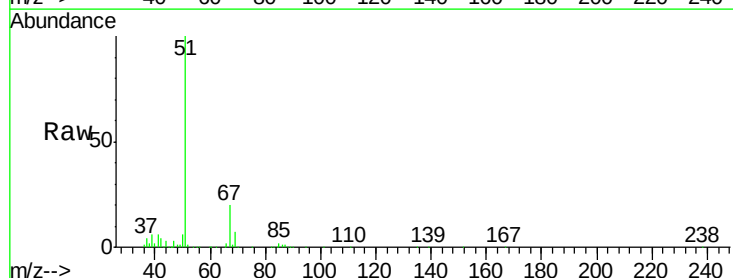
Acq: 22 Jun 2021 23:53

Tgt Ion: 51 Resp: 3584690

Ion Ratio Lower Upper

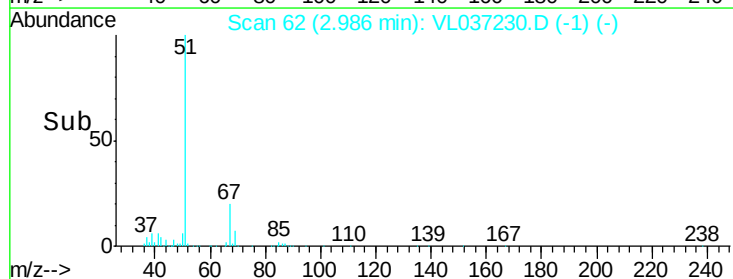
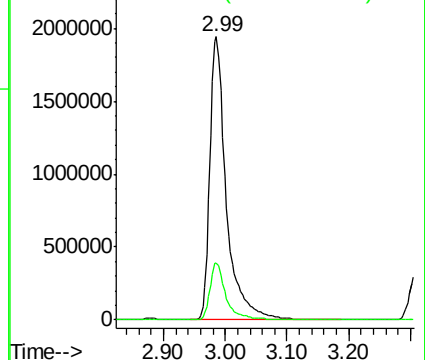
51 100

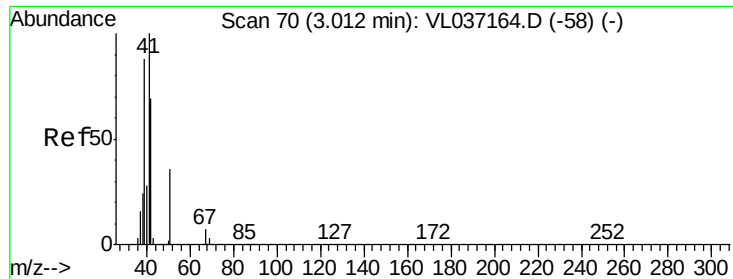
67 19.6 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 32.775 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037230.D

Acq: 22 Jun 2021 23:53

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 41 Resp: 3799190

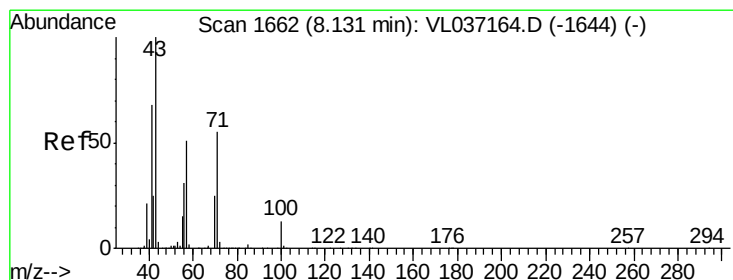
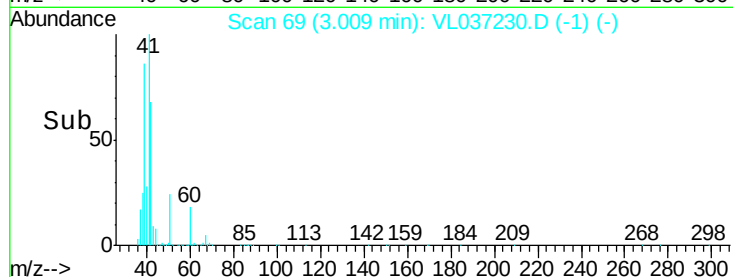
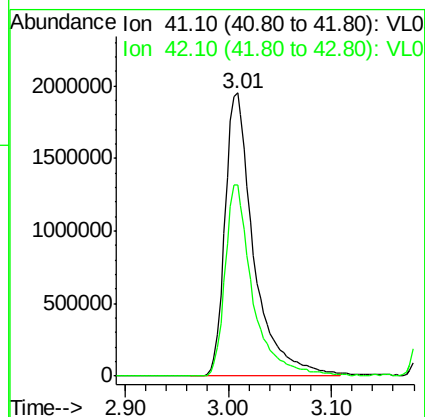
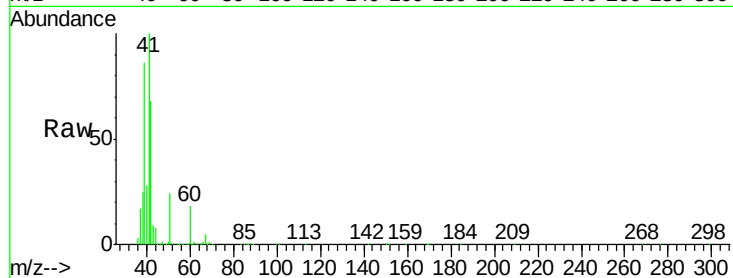
Ion Ratio Lower Upper

41 100

42 64.9 54.5 81.7

Manual Integrations
APPROVED

MMDadoda
6/24/2021 4:33:28 PM



#10

Heptane

Concen: 0.890 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL037230.D

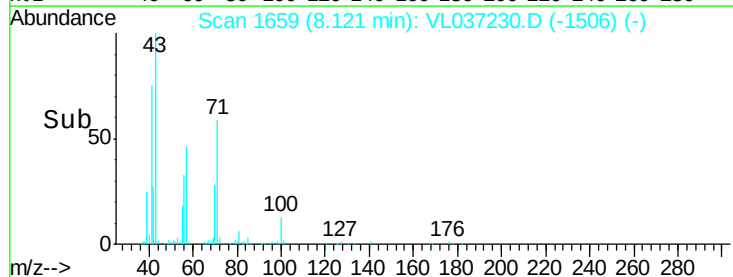
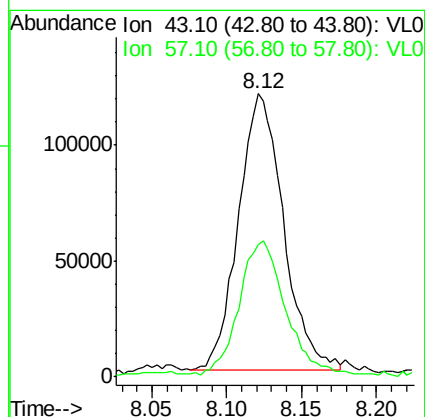
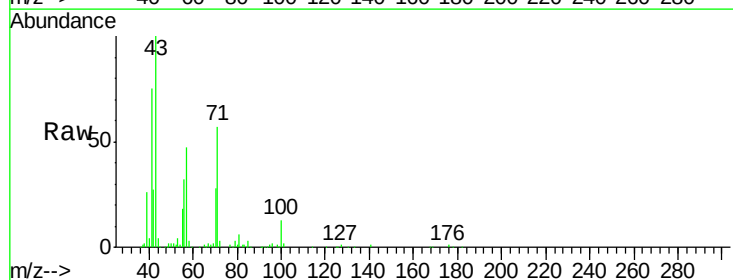
Acq: 22 Jun 2021 23:53

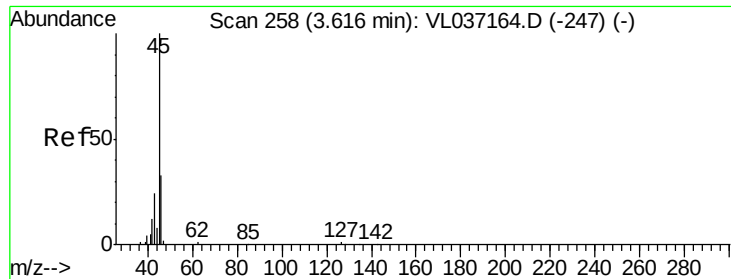
Tgt Ion: 43 Resp: 249722

Ion Ratio Lower Upper

43 100

57 49.1 40.6 61.0





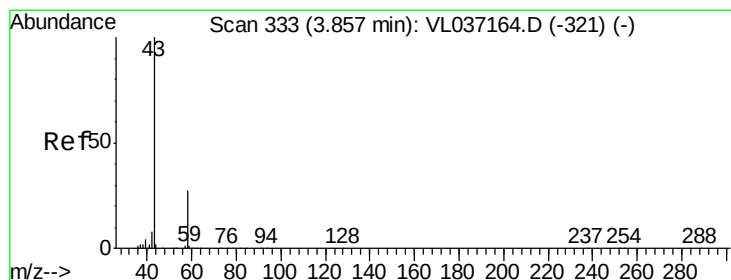
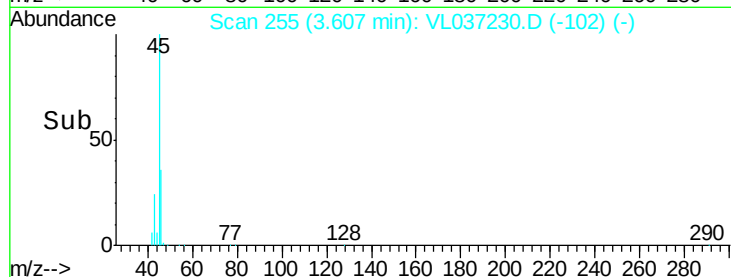
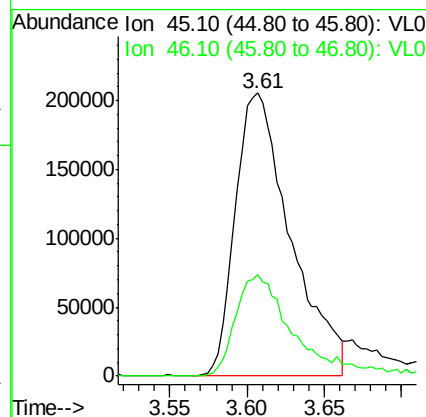
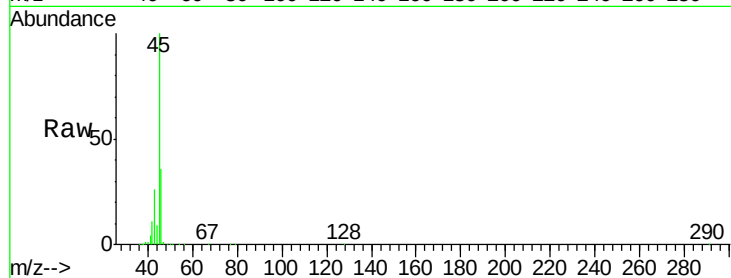
#13
Ethanol
Concen: 28.434 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	45	Resp	509854
Ion Ratio	100	Lower	Upper
46	39.0	34.2	137.0

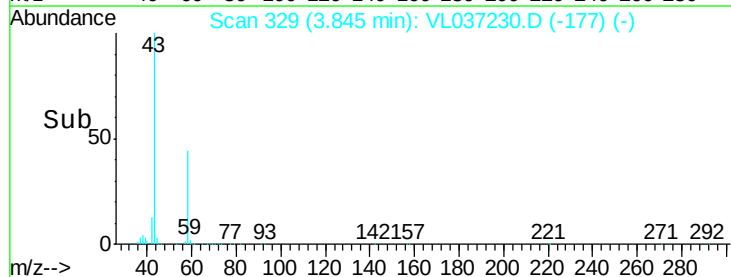
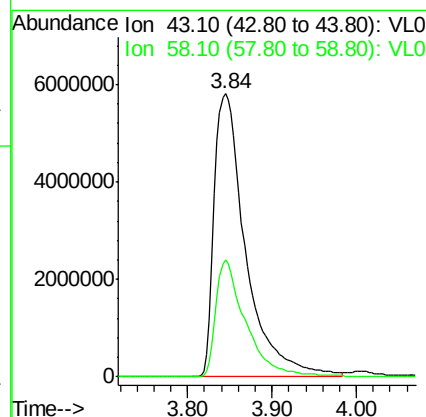
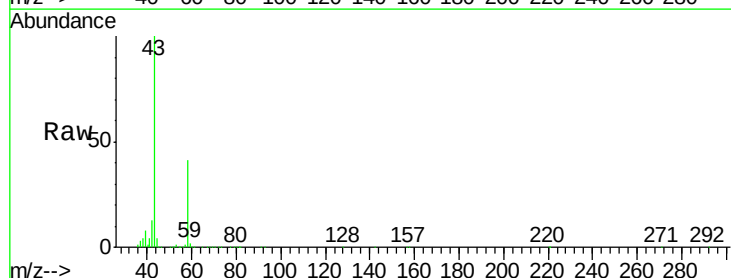
Manual Integrations
APPROVED

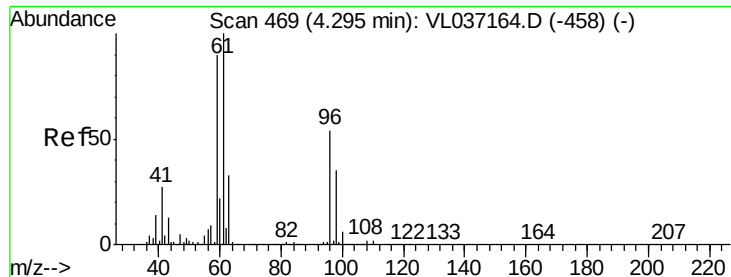
MMDadoda
6/24/2021 4:33:28 PM



#15
Acetone
Concen: 71.743 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Tgt Ion	43	Resp	15083752
Ion Ratio	100	Lower	Upper
58	39.7	23.7	35.5#





#17

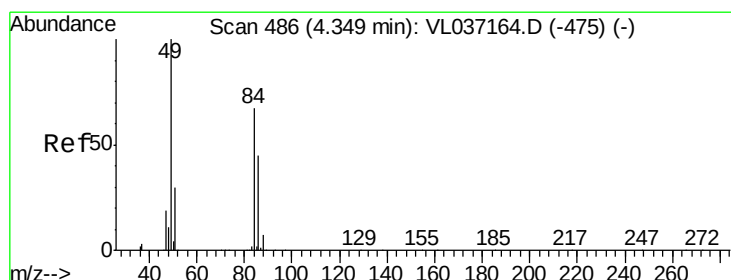
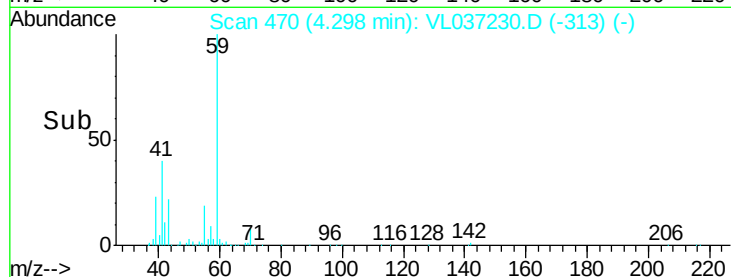
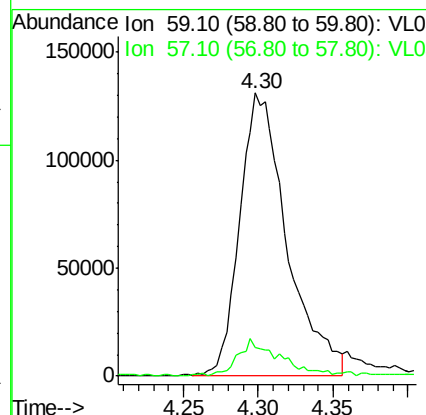
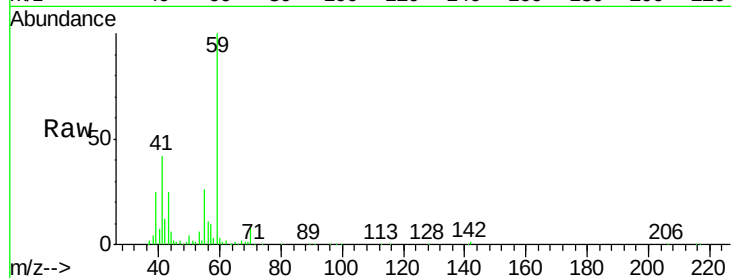
tert-Butyl alcohol
Concen: 1.470 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.00 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.8	13.2

Manual Integrations
APPROVED

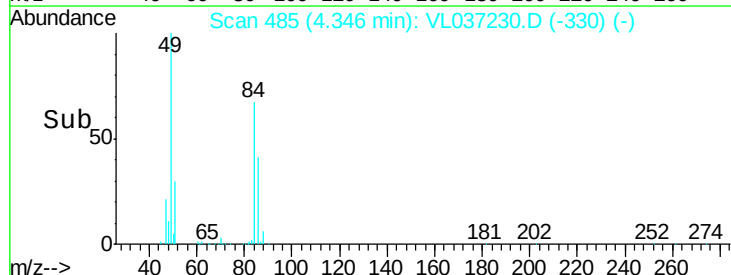
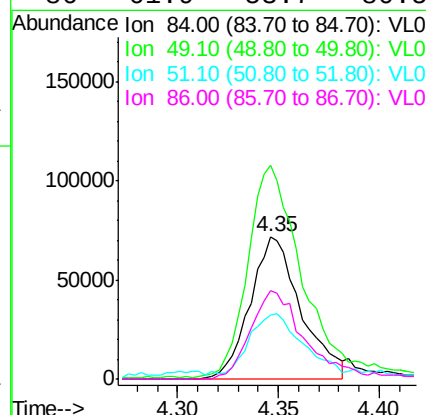
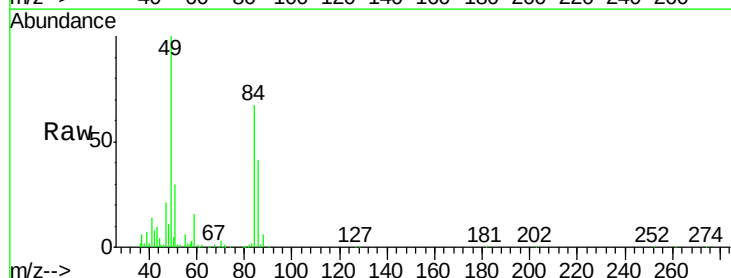
MMDadoda
6/24/2021 4:33:28 PM

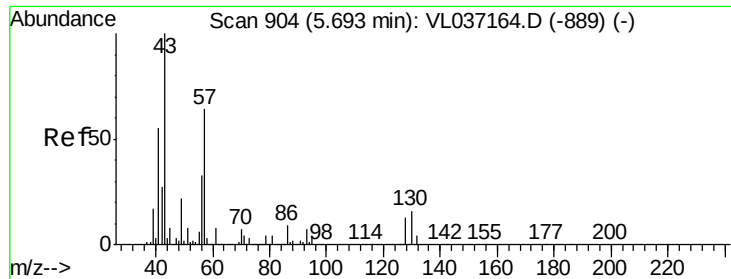


#20

Methylene Chloride
Concen: 1.004 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Tgt Ion	Ratio	Lower	Upper
84	100		
49	149.1	119.7	179.5
51	40.4	36.1	54.1
86	61.9	53.7	80.5





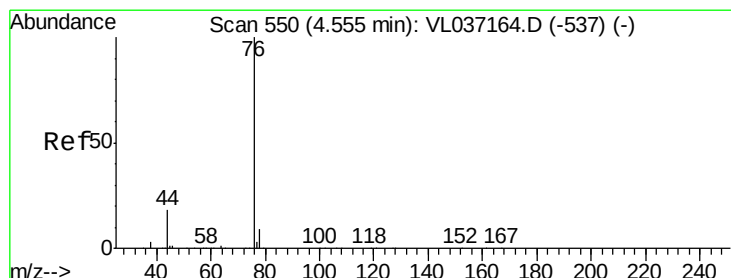
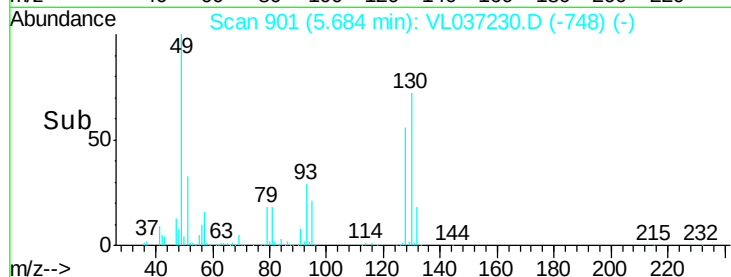
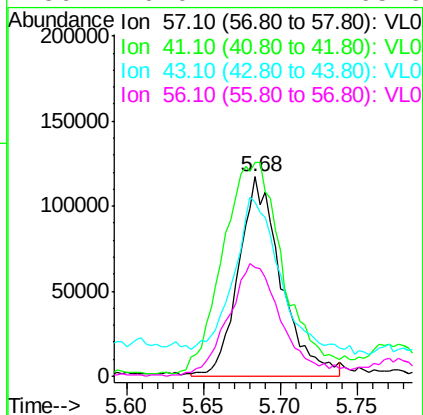
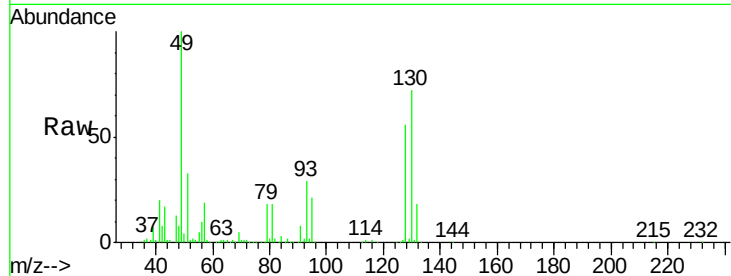
#26
Hexane
Concen: 0.979 ppbv m
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot 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#

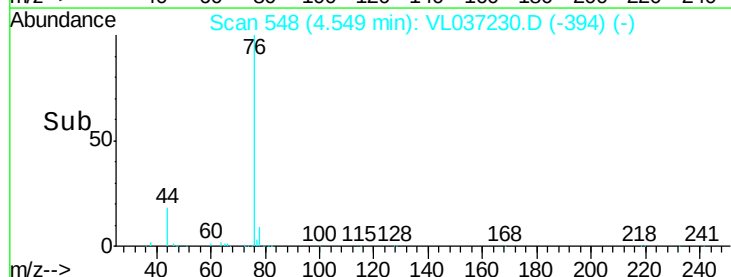
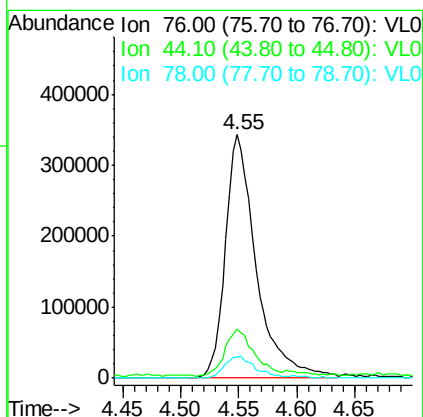
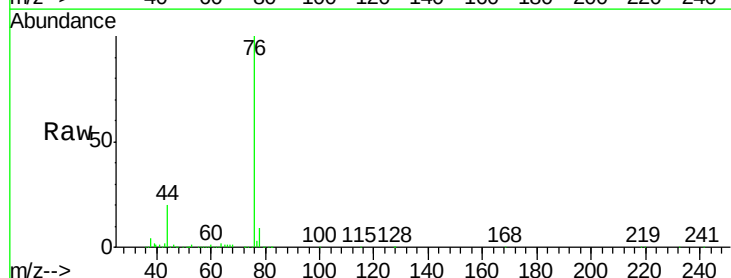
Manual Integrations
APPROVED

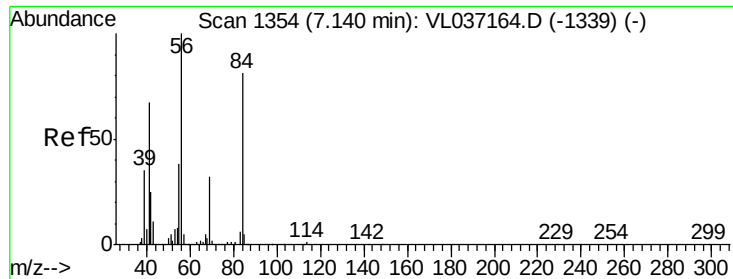
MMDadoda
6/24/2021 4:33:28 PM



#27
Carbon Disulfide
Concen: 2.820 ppbv
RT: 4.55 min Scan# 548
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Tgt Ion	Ratio	Lower	Upper
76	100		
44	20.1	15.4	23.2
78	9.7	8.0	12.0





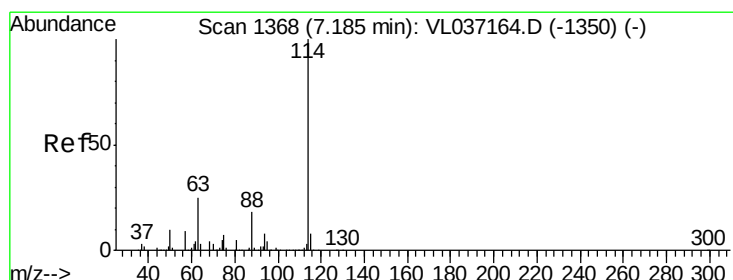
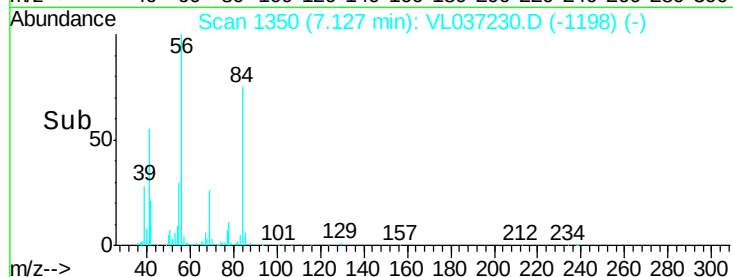
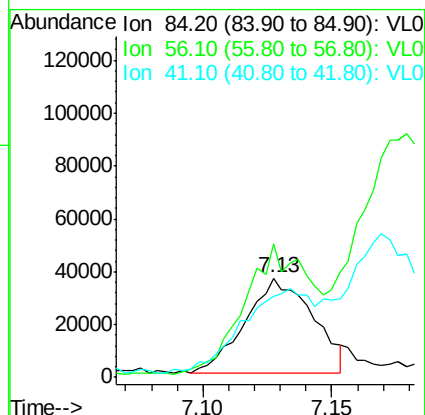
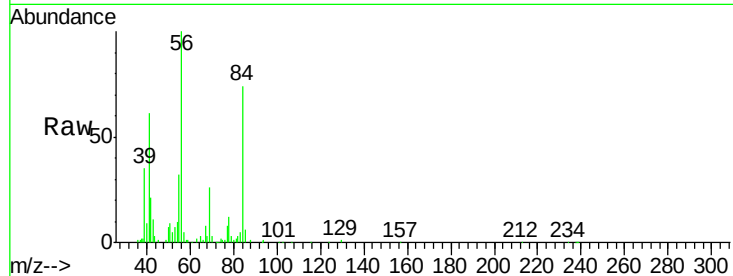
#30
Cyclohexane
Concen: 0.342 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Lower	Upper
84	100		
56	139.6	107.7	161.5
41	0.0	69.0	103.6#

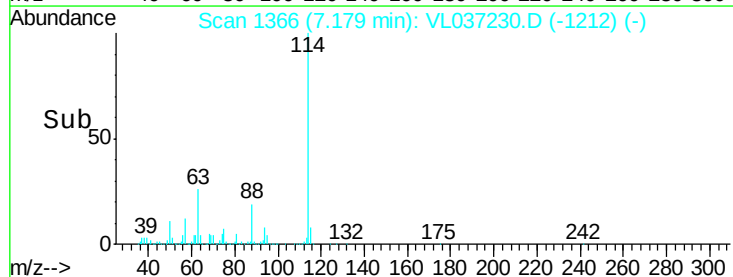
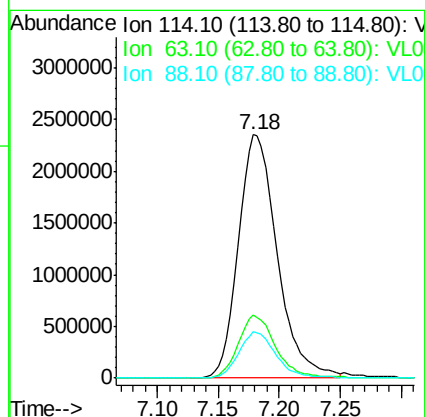
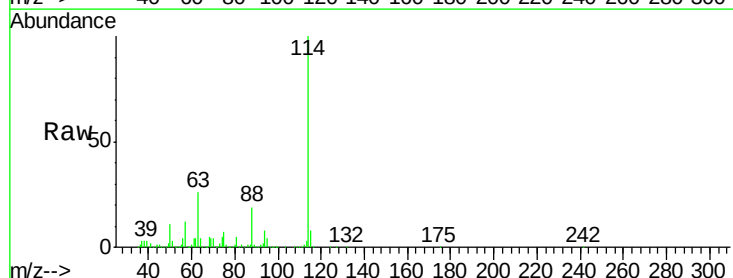
Manual Integrations
APPROVED

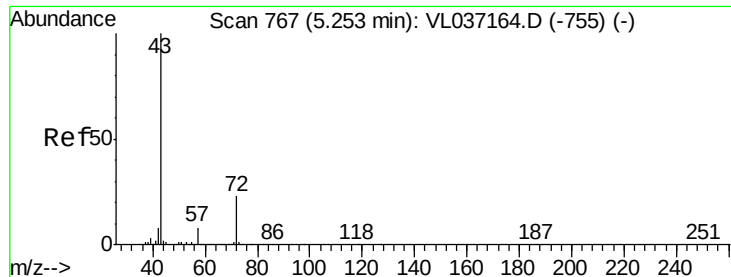
MMDadoda
6/24/2021 4:33:28 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.6	29.4
88	18.5	14.2	21.2





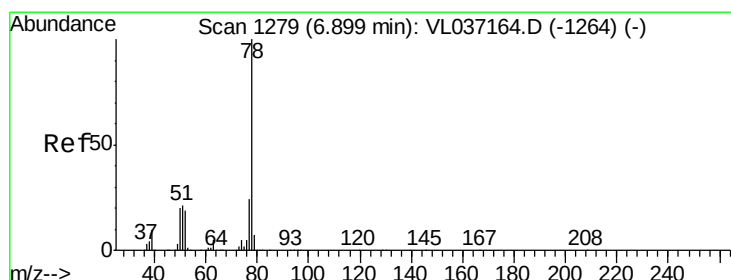
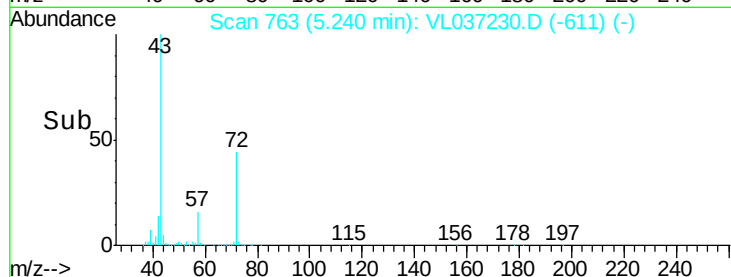
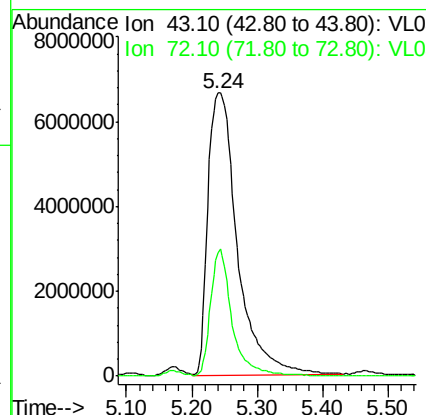
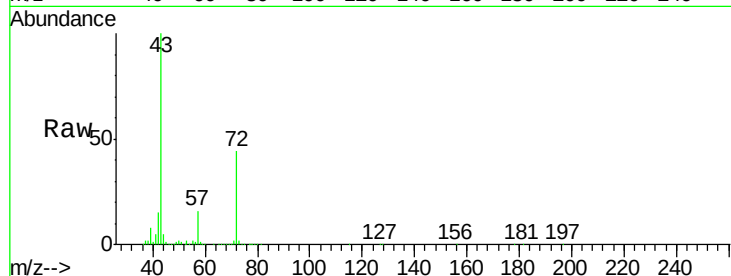
#34
2-Butanone
Concen: 103.267 ppbv
RT: 5.24 min Scan# 763
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion: 43 Resp:20834006
Ion Ratio Lower Upper
43 100
72 33.3 18.9 28.3#

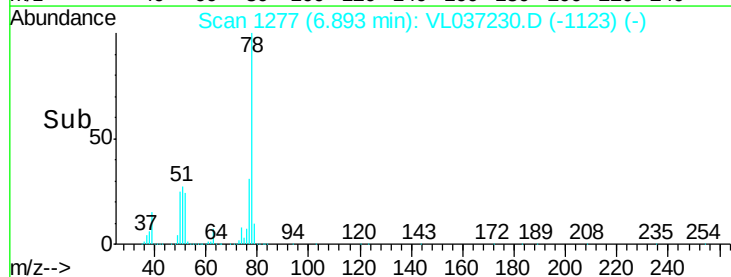
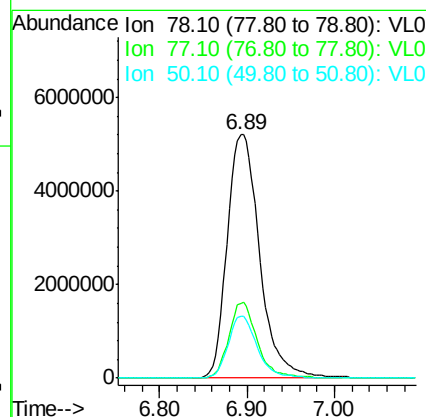
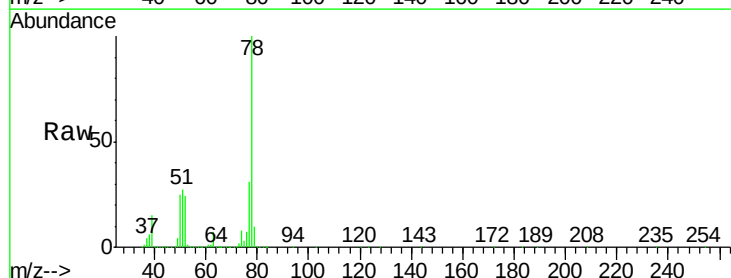
Manual Integrations
APPROVED

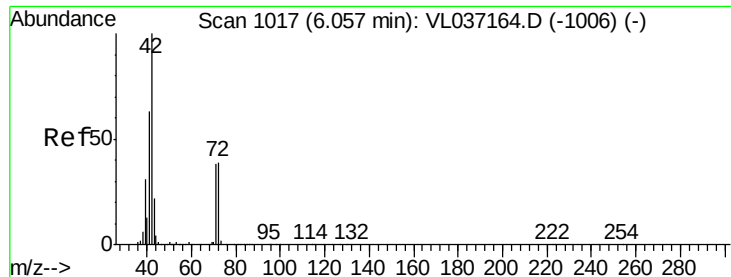
MMDadoda
6/24/2021 4:33:28 PM



#36
Benzene
Concen: 32.020 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Tgt Ion: 78 Resp:13431605
Ion Ratio Lower Upper
78 100
77 30.8 19.0 28.6#
50 25.4 15.7 23.5#





#41

Tetrahydrofuran

Concen: 0.962 ppbv m

RT: 6.06 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VL037230.D

Acq: 22 Jun 2021 23:53

Instrument :

MSVOA_L

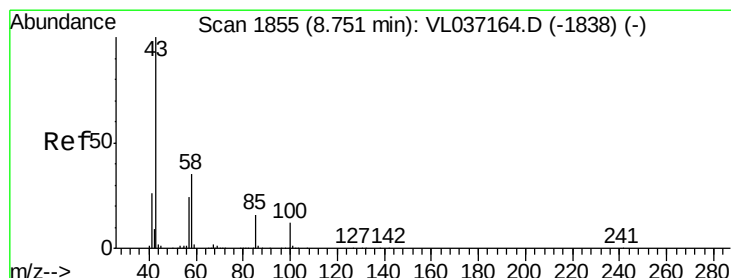
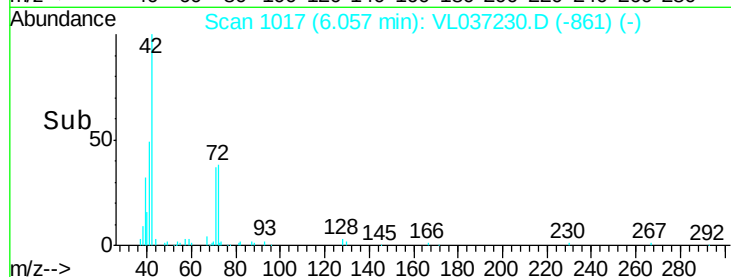
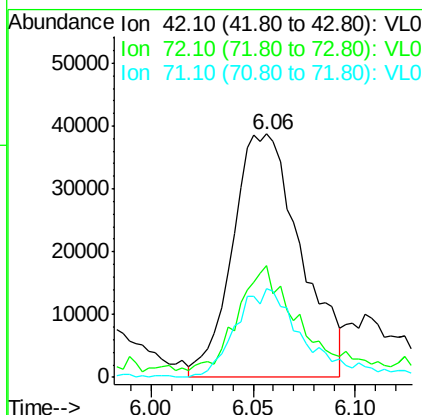
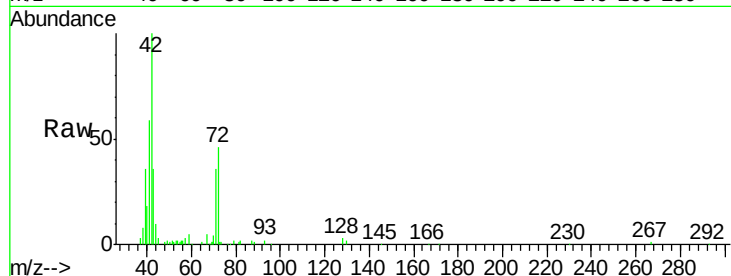
ClientSampled :

SV1

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.0	49.4#
71	0.0	31.0	46.6#

Manual Integrations
APPROVED

MMDadoda
6/24/2021 4:33:28 PM



#50

4-Methyl-2-Pentanone

Concen: 1.355 ppbv

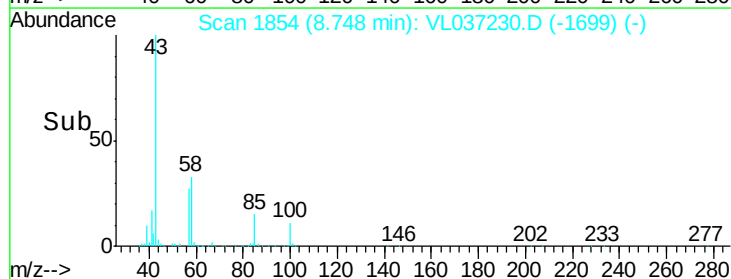
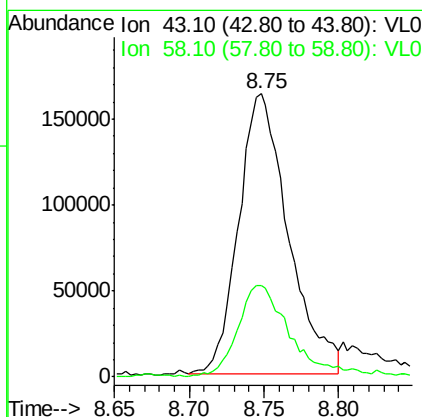
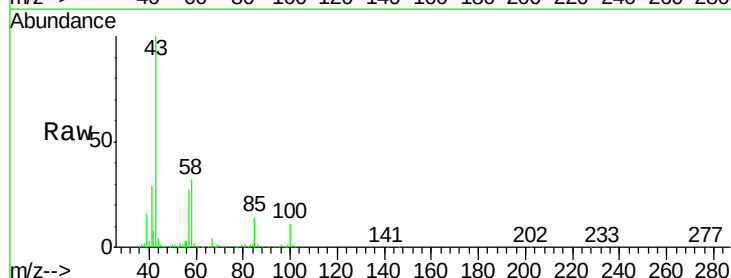
RT: 8.75 min Scan# 1854

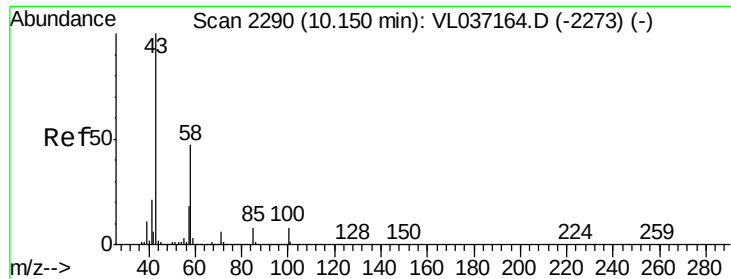
Delta R.T. -0.00 min

Lab File: VL037230.D

Acq: 22 Jun 2021 23:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.6	28.4	42.6





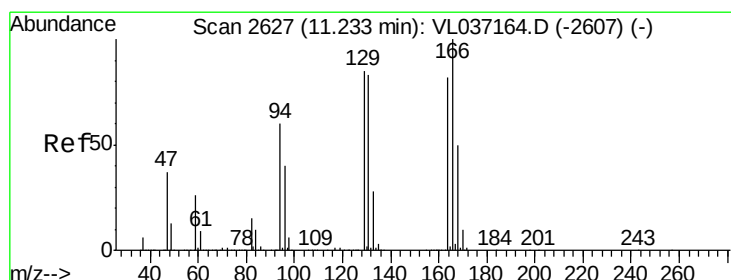
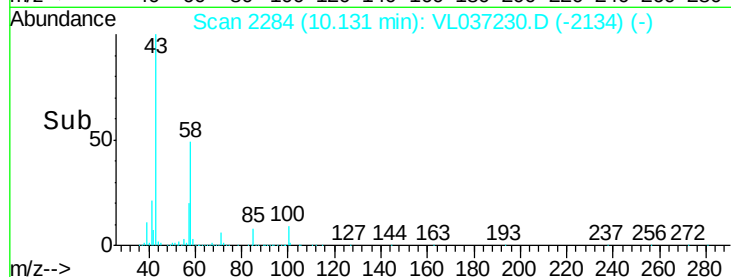
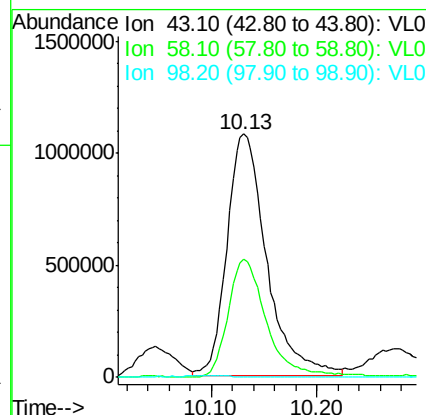
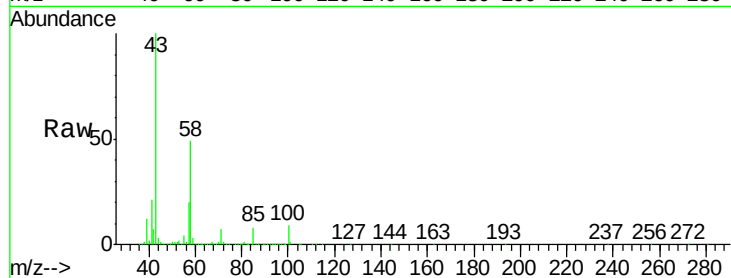
#51
2-Hexanone
Concen: 20.855 ppbv
RT: 10.13 min Scan# 2284
Delta R.T. -0.02 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.7	38.4	57.6
98	1.3	0.3	0.5#

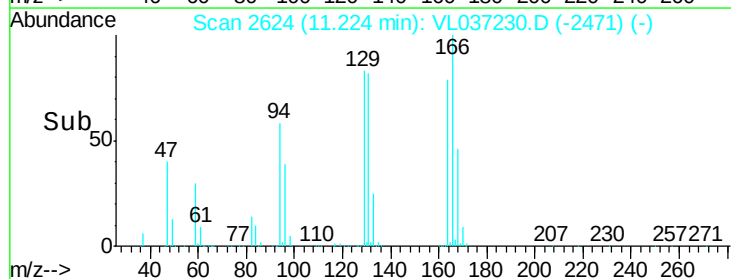
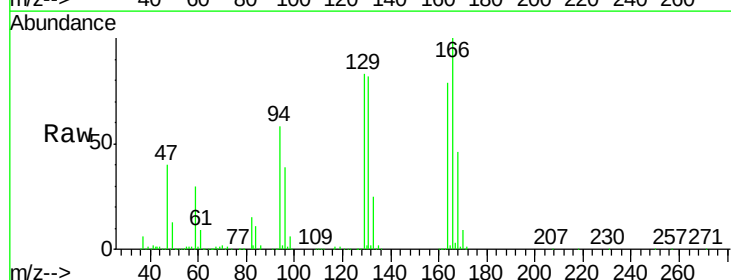
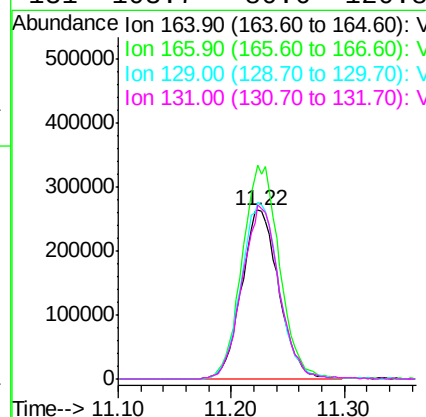
Manual Integrations
APPROVED

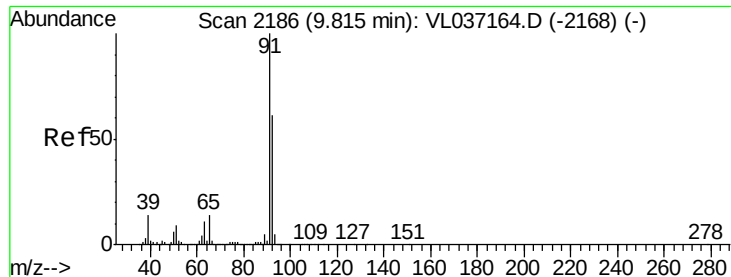
MMDadoda
6/24/2021 4:33:28 PM



#52
Tetrachloroethene
Concen: 3.105 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.8	97.6	146.4
129	105.1	82.9	124.3
131	103.7	80.6	120.8





#53

Toluene

Concen: 11.936 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL037230.D

Acq: 22 Jun 2021 23:53

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 91 Resp: 5980761

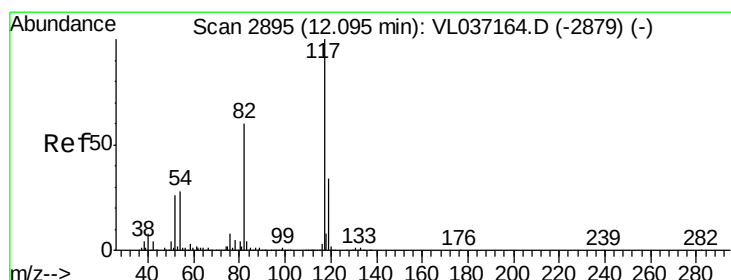
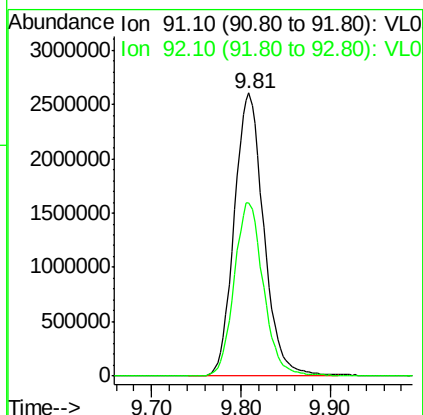
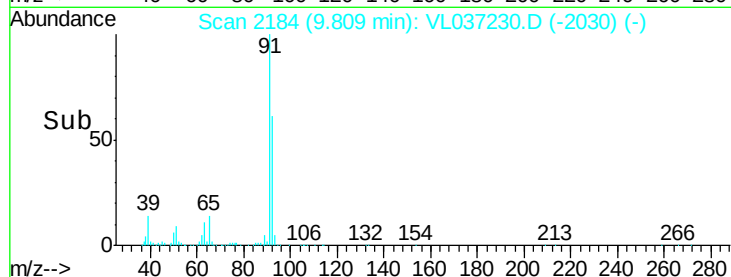
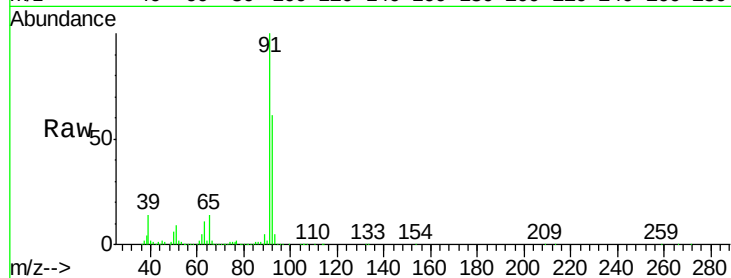
Ion Ratio Lower Upper

91 100

92 61.2 48.3 72.5

Manual Integrations
APPROVED

MMDadoda
6/24/2021 4:33:28 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL037230.D

Acq: 22 Jun 2021 23:53

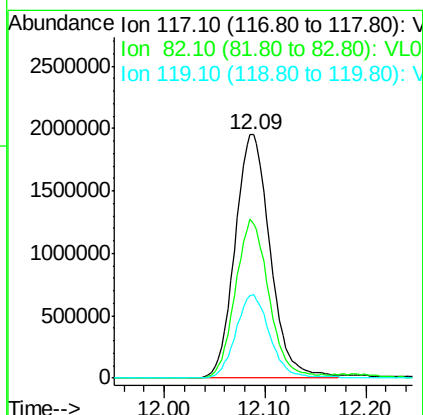
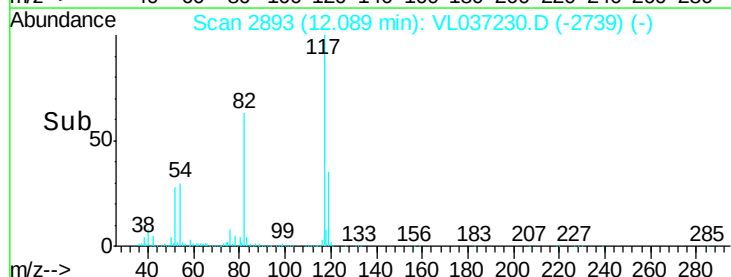
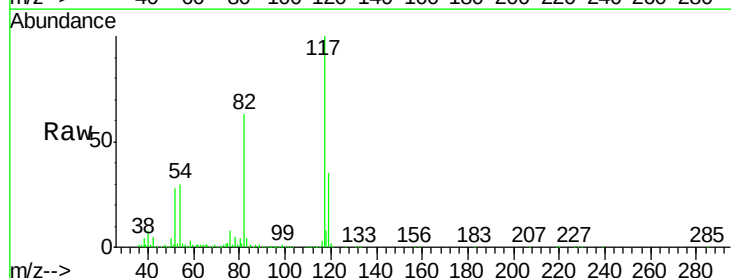
Tgt Ion: 117 Resp: 4738632

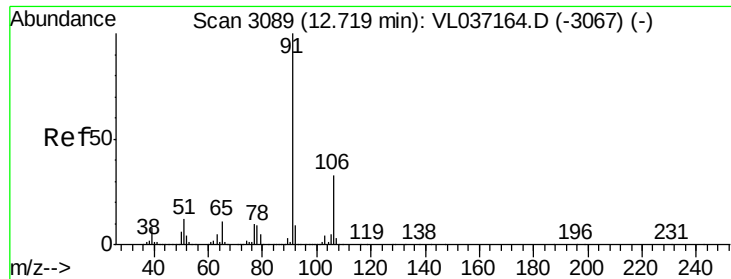
Ion Ratio Lower Upper

117 100

82 62.4 51.7 77.5

119 33.7 47.6 71.4#





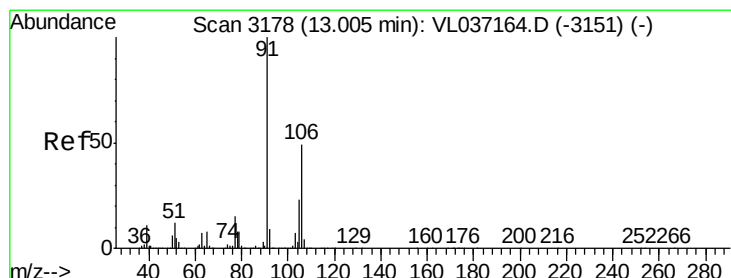
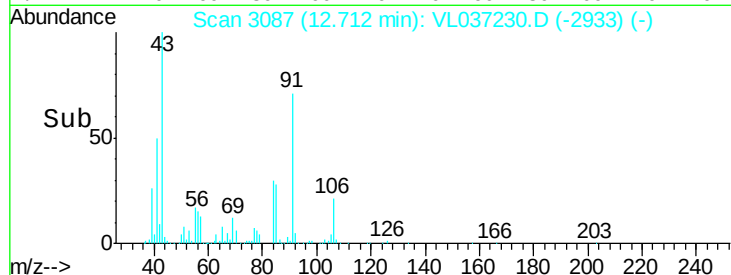
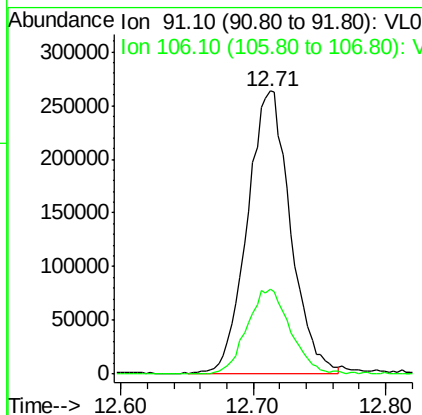
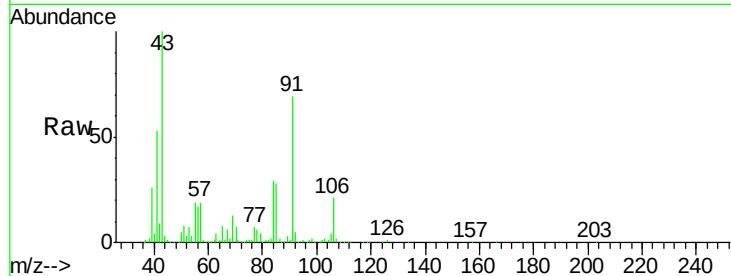
#58
Ethyl Benzene
Concen: 0.910 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion: 91 Resp: 593693
Ion Ratio Lower Upper
91 100
106 30.0 26.3 39.5

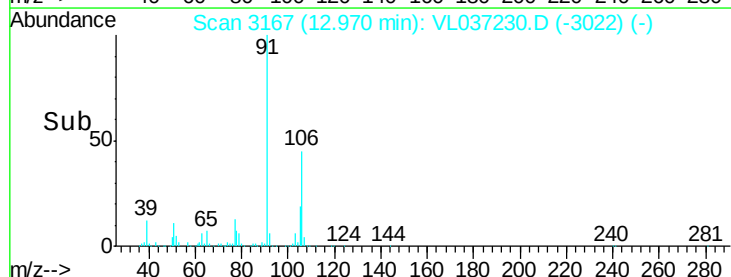
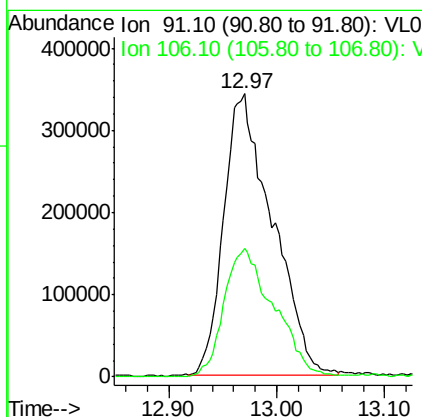
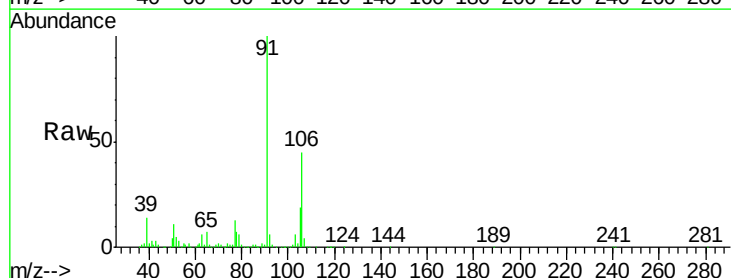
Manual Integrations
APPROVED

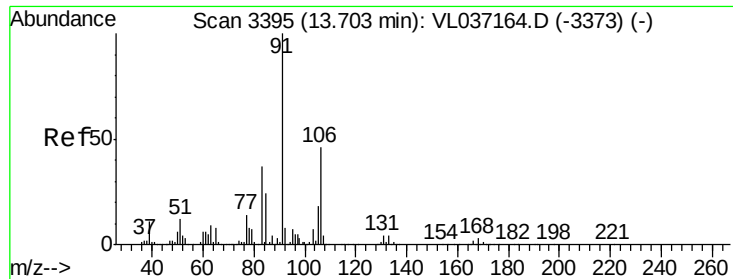
MMDadoda
6/24/2021 4:33:28 PM



#59
m/p-Xylene
Concen: 1.935 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Tgt Ion: 91 Resp: 1069729
Ion Ratio Lower Upper
91 100
106 48.0 37.0 55.4





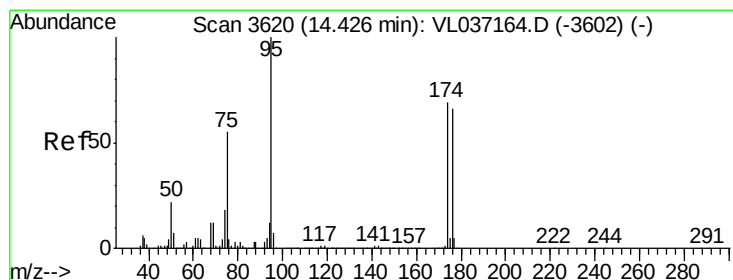
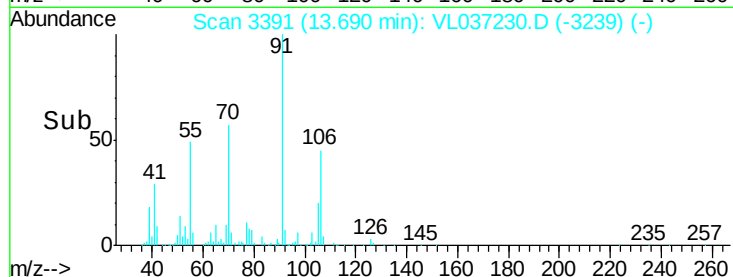
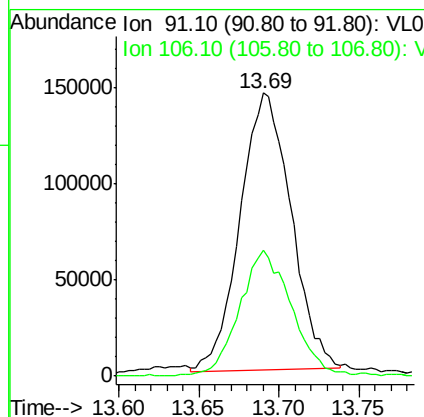
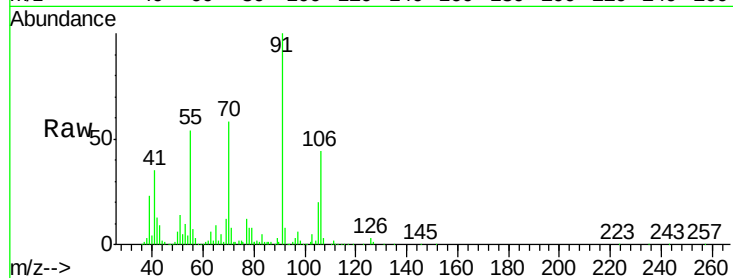
#60
o-Xylene
Concen: 0.596 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 91 Resp: 313953
Ion Ratio Lower Upper
91 100
106 47.1 23.0 69.0

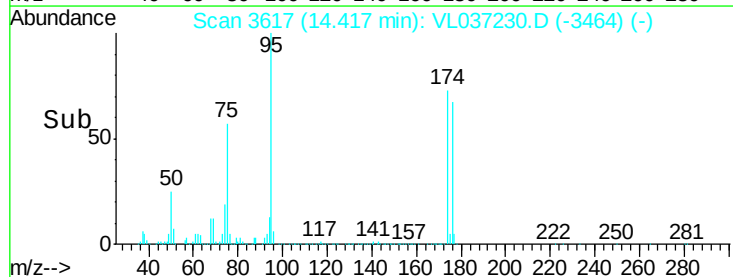
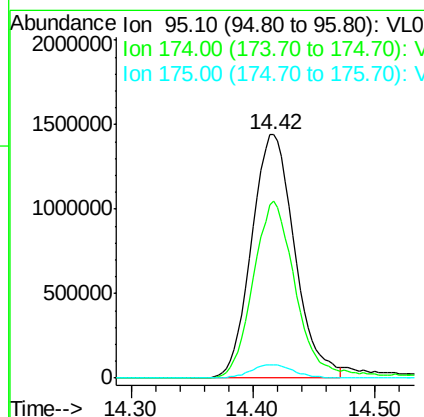
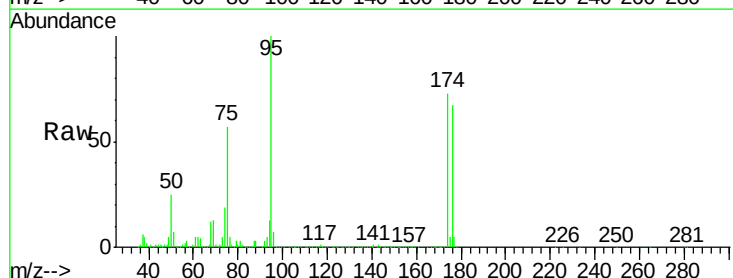
Manual Integrations
APPROVED

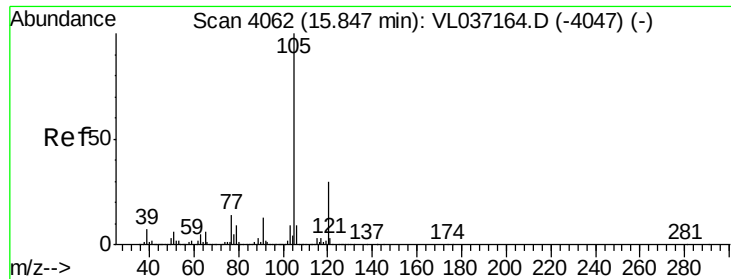
MMDadoda
6/24/2021 4:33:28 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.828 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL037230.D
Acq: 22 Jun 2021 23:53

Tgt Ion: 95 Resp: 3528865
Ion Ratio Lower Upper
95 100
174 74.4 57.0 85.4
175 5.7 4.4 6.6





#72

4-Ethyltoluene

Concen: 0.224 ppbv m

RT: 15.84 min Scan# 4059

Delta R.T. -0.01 min

Lab File: VL037230.D

Acq: 22 Jun 2021 23:53

Instrument :

MSVOA_L

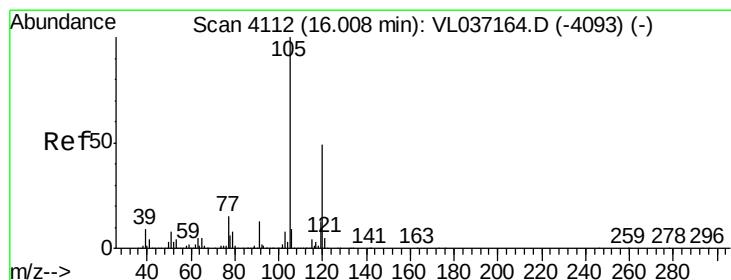
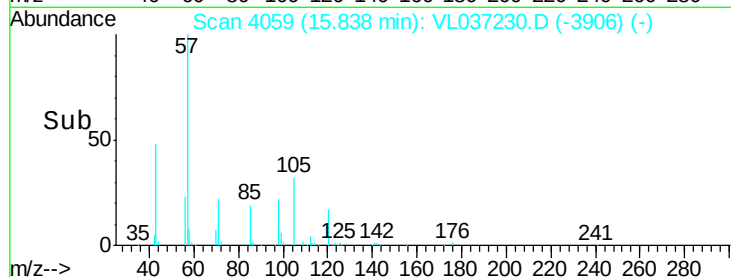
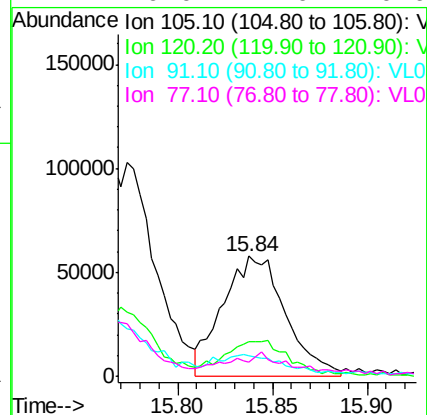
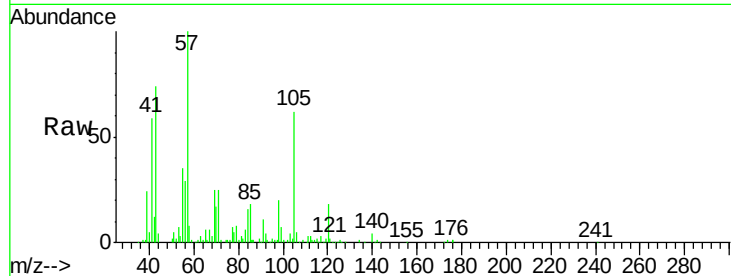
ClientSampleId :

SV1

Tot Ion:	105	Resp:	133653
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.7	37.1#
91	18.6	10.2	15.4#
77	0.0	11.0	16.6#

Manual Integrations
APPROVED

MMDadoda
6/24/2021 4:33:28 PM



#73

1,3,5-Trimethylbenzene

Concen: 0.142 ppbv

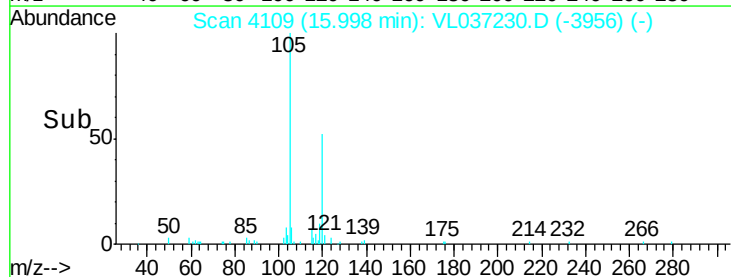
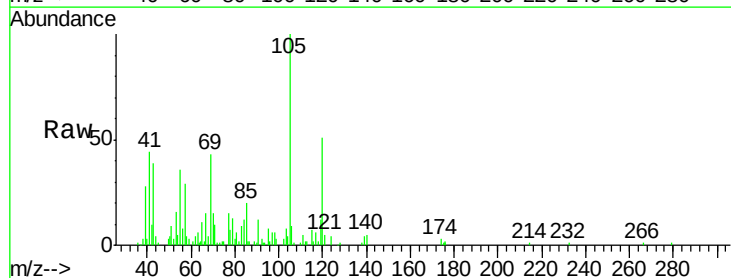
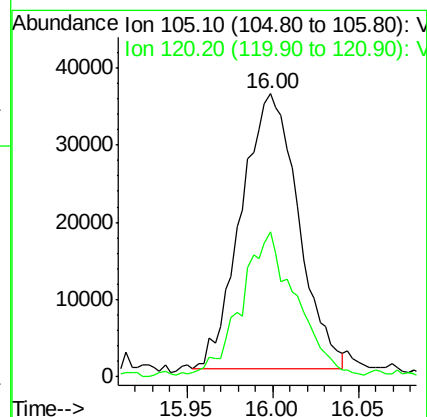
RT: 16.00 min Scan# 4109

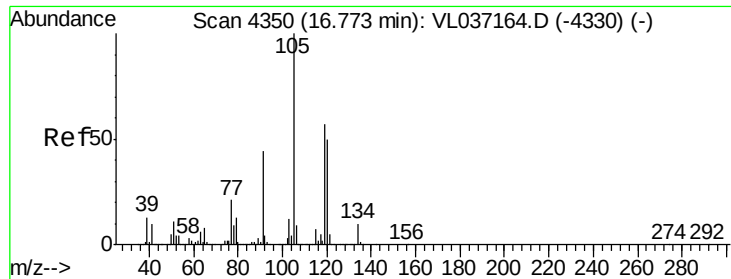
Delta R.T. -0.01 min

Lab File: VL037230.D

Acq: 22 Jun 2021 23:53

Tgt Ion:	105	Resp:	81978
Ion Ratio	Lower	Upper	
105	100		
120	51.9	39.4	59.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.584 ppbv m
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL037230.D
 Acq: 22 Jun 2021 23:53

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tot Ion:	105	Resp:	347906
Ion Ratio		Lower	Upper
105	100		
120	40.7	39.8	59.8
91	11.0	37.0	55.4#
77	12.5	17.0	25.4#

Manual Integrations
 APPROVED

MMDadoda
 6/24/2021 4:33:28 PM

