

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036600.D
 Acq On : 31 Mar 2021 13:44
 Operator : SY/AP
 Sample : M1840-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSB-IA-2

Manual Integrations
 APPROVED

MMDadoda
 4/2/2021 6:52:23 PM

Quant Time: Apr 01 22:44:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1369120	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3162918	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2812203	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2259792	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	49508m	0.222	ppbv	
4) Chloromethane	3.14	50	47094	0.521	ppbv	89
9) Propene	3.01	41	53930m	0.661	ppbv	
11) Trichlorofluoromethane	3.94	101	60225m	0.265	ppbv	
13) Ethanol	3.61	45	1182790	121.798	ppbv	96
15) Acetone	3.85	43	1003144	7.444	ppbv	100
19) Isopropyl Alcohol	3.98	45	615621	8.305	ppbv	98
20) Methylene Chloride	4.35	84	339084	5.374	ppbv	96
26) Hexane	5.69	57	759606	5.109	ppbv #	48
30) Cyclohexane	7.13	84	27661m	0.229	ppbv	
34) 2-Butanone	5.25	43	99657	0.645	ppbv	95
35) Carbon Tetrachloride	7.01	117	16590m	0.068	ppbv	
36) Benzene	6.88	78	55429m	0.190	ppbv	
52) Tetrachloroethene	11.22	164	11818m	0.110	ppbv	
53) Toluene	9.81	91	1946910	6.267	ppbv	100
59) m/p-Xylene	12.97	91	44791m	0.126	ppbv	

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

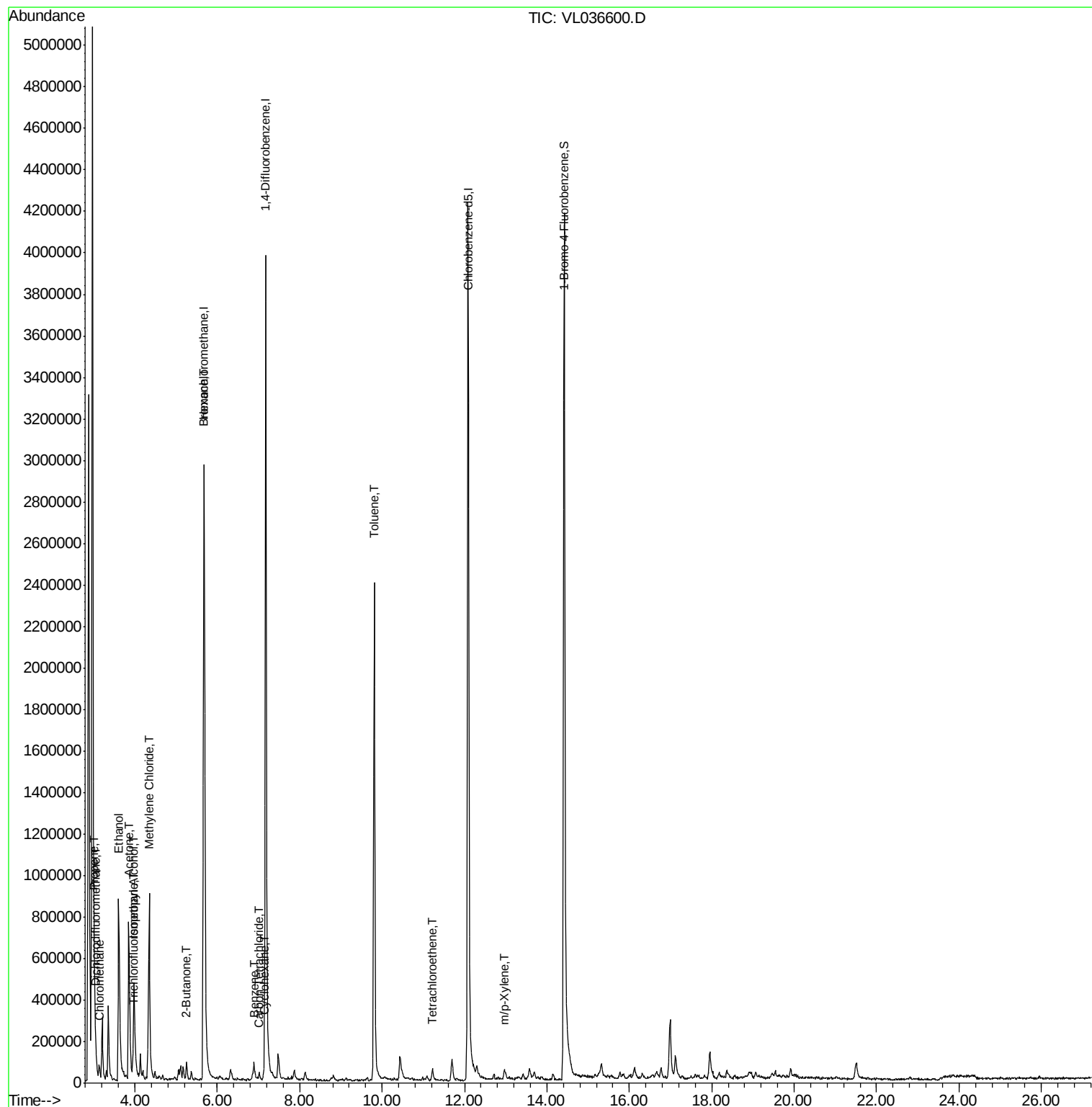
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033121\
Data File : VL036600.D
Acq On : 31 Mar 2021 13:44
Operator : SY/AP
Sample : M1840-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-2

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:23 PM

Quant Time: Apr 01 22:44:39 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036600.D

Acq: 31 Mar 2021 13:44

Instrument :

MSVOA_L

ClientSampleId :

SSB-IA-2

Tot Ion: 49 Resp: 1369120

Ion Ratio Lower Upper

49 100

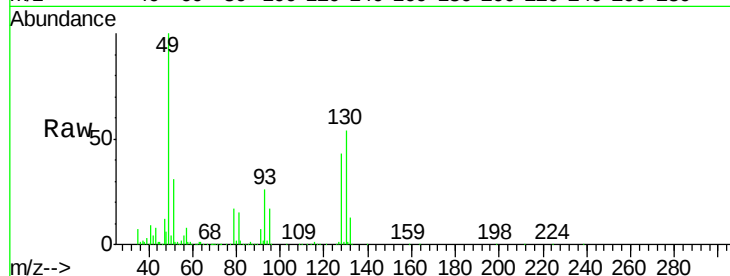
128 43.9 23.5 70.6

130 55.3 29.1 87.4

Manual Integrations
APPROVED

MMDadoda

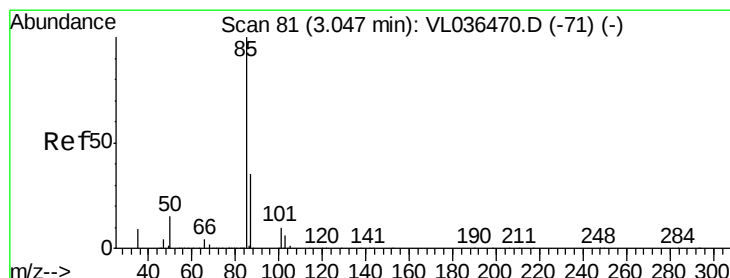
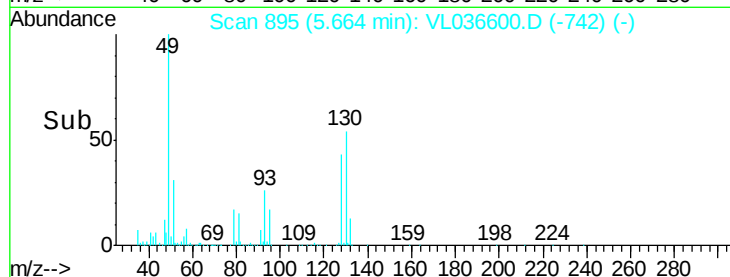
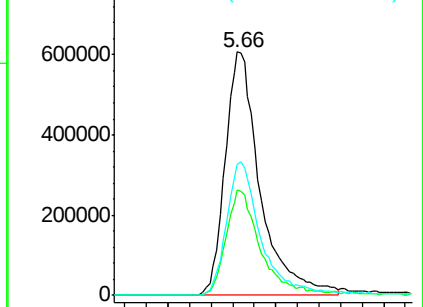
4/2/2021 6:52:23 PM



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



#2

Dichlorodifluoromethane

Concen: 0.222 ppbv m

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL036600.D

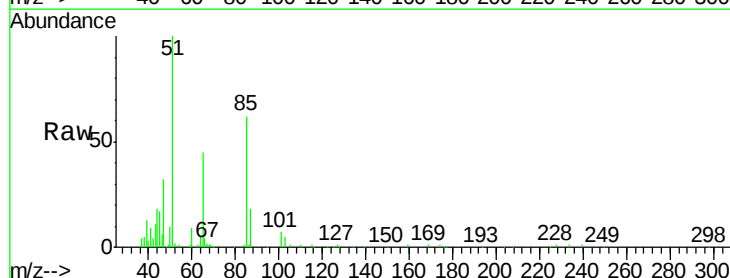
Acq: 31 Mar 2021 13:44

Tgt Ion: 85 Resp: 49508

Ion Ratio Lower Upper

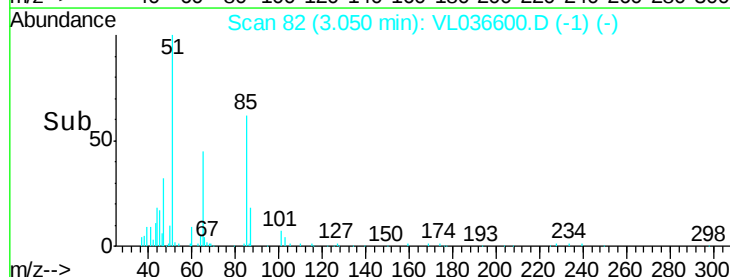
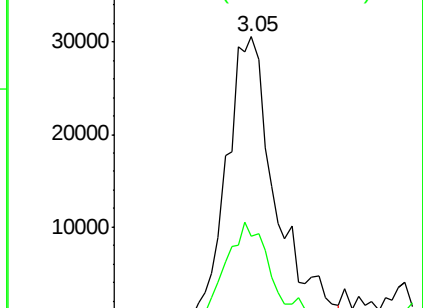
85 100

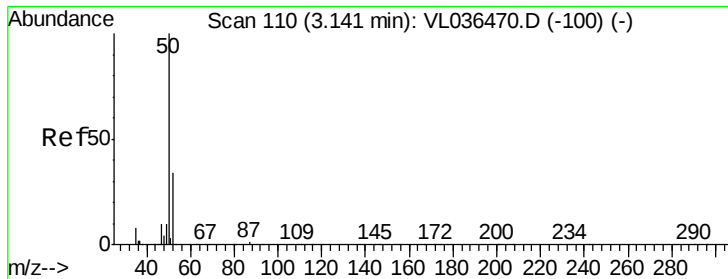
87 29.5 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.521 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036600.D

Acq: 31 Mar 2021 13:44

Instrument :

MSVOA_L

ClientSampleId :

SSB-IA-2

Tot Ion: 50 Resp: 47094

Ion Ratio Lower Upper

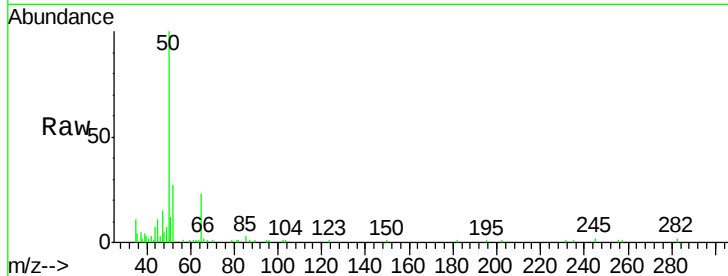
50 100

52 27.3 27.0 40.6

Manual Integrations
APPROVED

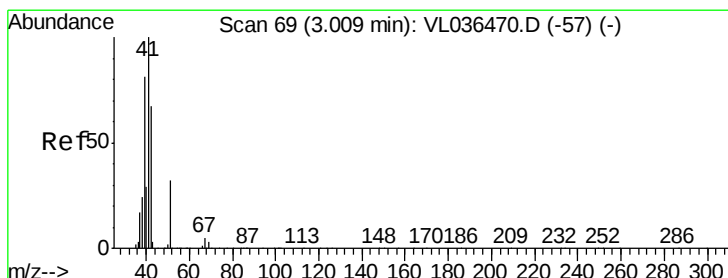
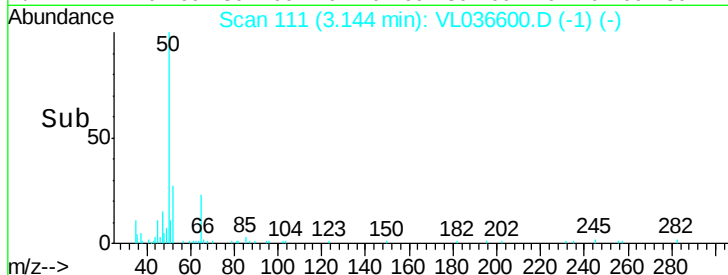
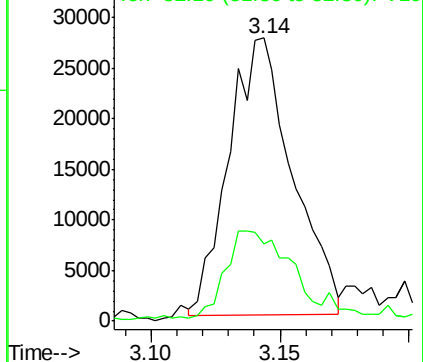
MMDadoda

4/2/2021 6:52:23 PM



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.661 ppbv m

RT: 3.01 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036600.D

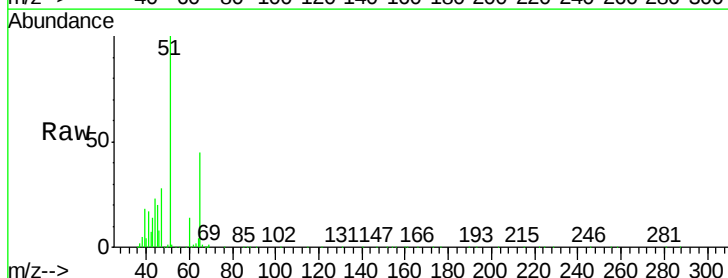
Acq: 31 Mar 2021 13:44

Tgt Ion: 41 Resp: 53930

Ion Ratio Lower Upper

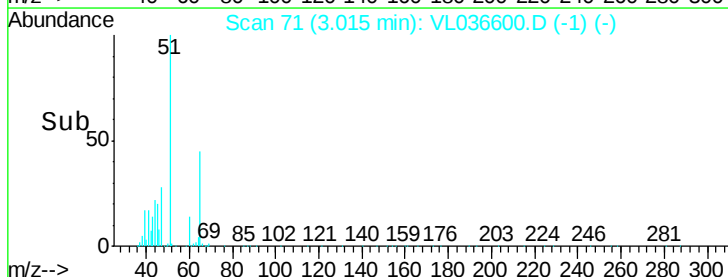
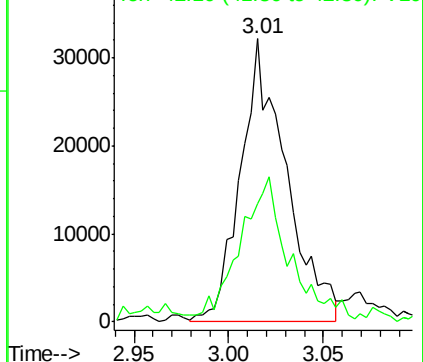
41 100

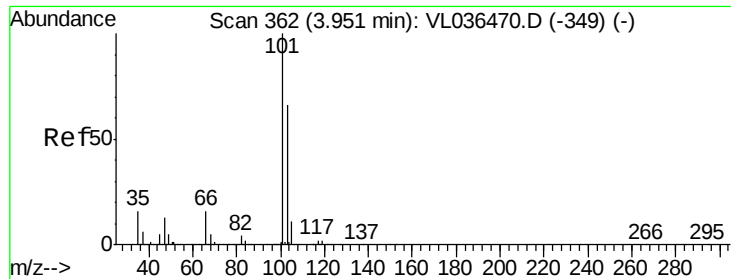
42 6.2 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





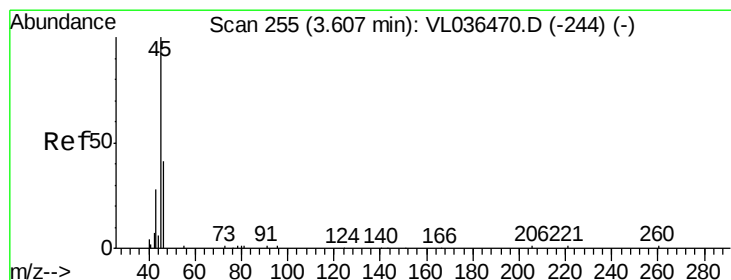
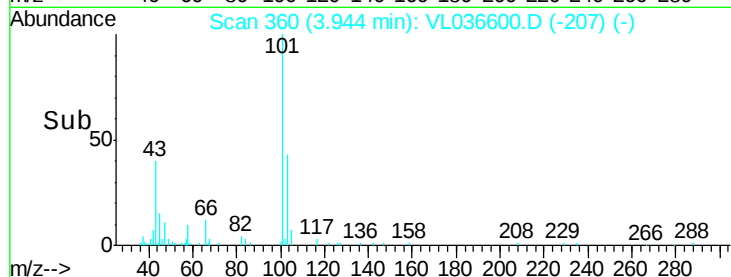
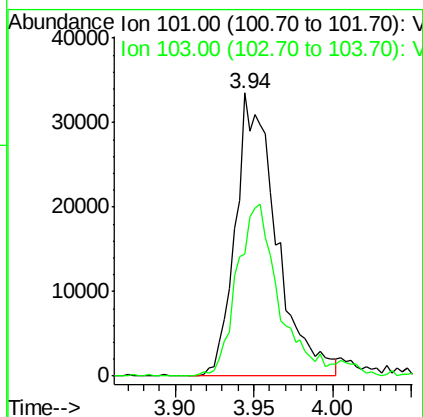
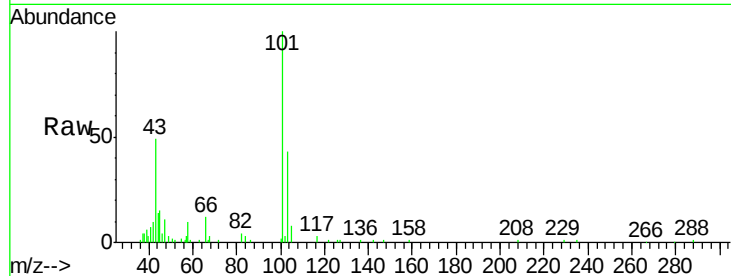
#11
Trichlorofluoromethane
Concen: 0.265 ppbv m
RT: 3.94 min Scan# 360
Delta R.T. -0.01 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-2

Tot Ion:101 Resp: 60225
Ion Ratio Lower Upper
101 100
103 43.3 52.5 78.7#

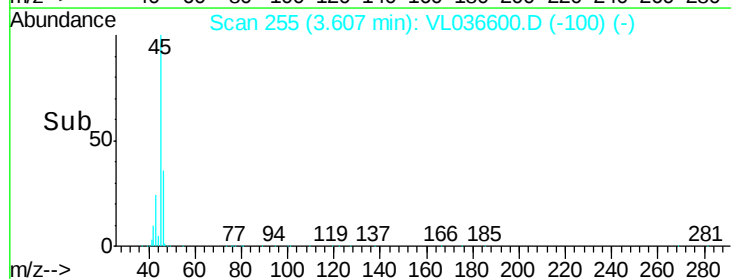
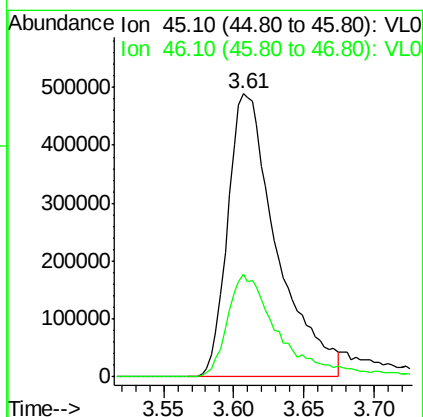
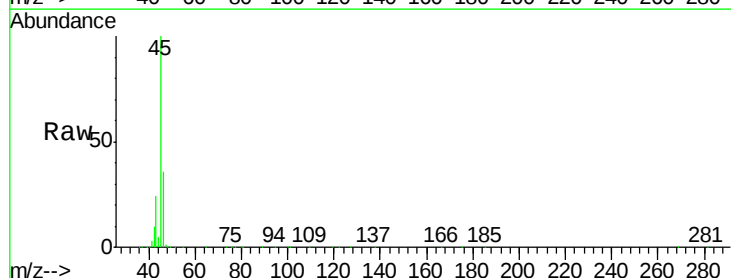
Manual Integrations
APPROVED

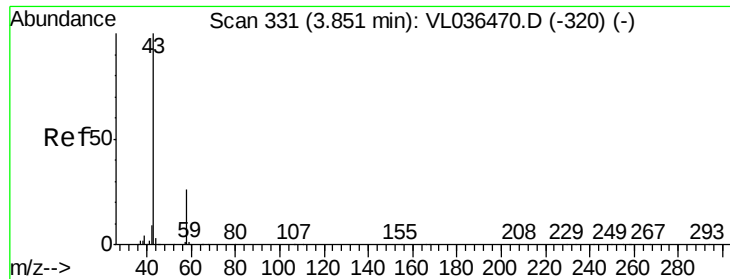
MMDadoda
4/2/2021 6:52:23 PM



#13
Ethanol
Concen: 121.798 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Tgt Ion: 45 Resp: 1182790
Ion Ratio Lower Upper
45 100
46 39.0 16.6 66.2





#15

Acetone

Concen: 7.444 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL036600.D

Acq: 31 Mar 2021 13:44

Instrument :

MSVOA_L

ClientSampled :

SSB-IA-2

Tot Ion: 43 Resp: 1003144

Ion Ratio Lower Upper

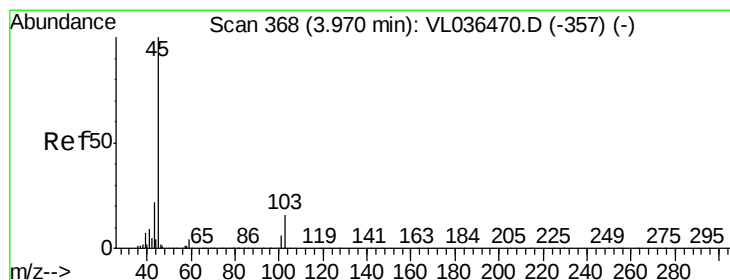
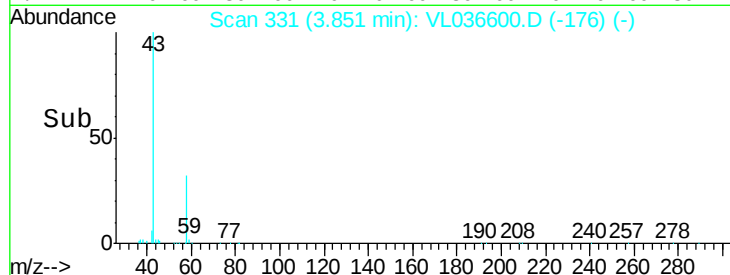
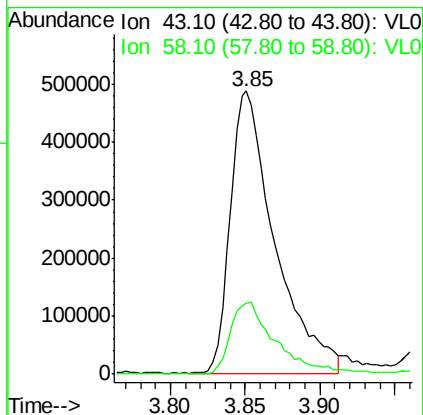
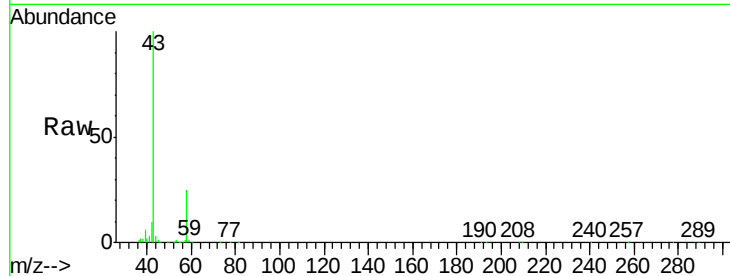
43 100

58 26.5 21.2 31.8

Manual Integrations
APPROVED

MMDadoda

4/2/2021 6:52:23 PM



#19

Isopropyl Alcohol

Concen: 8.305 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036600.D

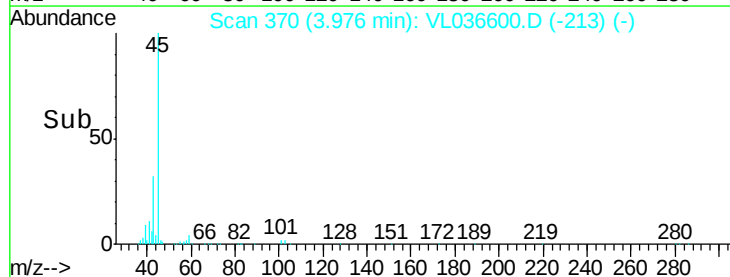
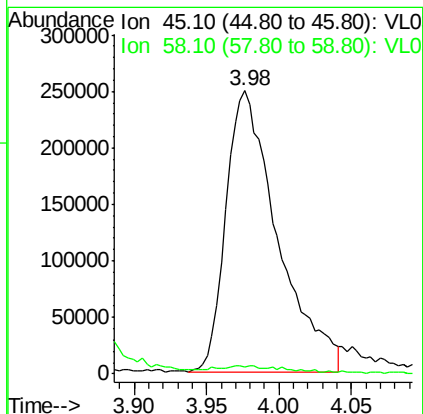
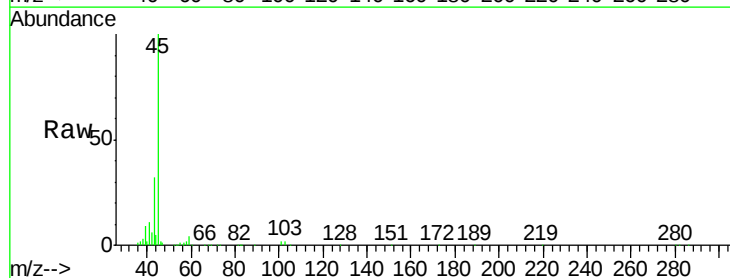
Acq: 31 Mar 2021 13:44

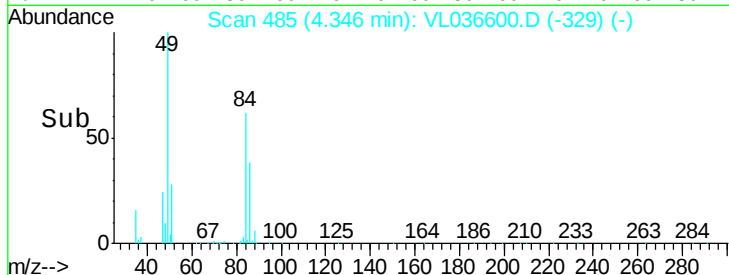
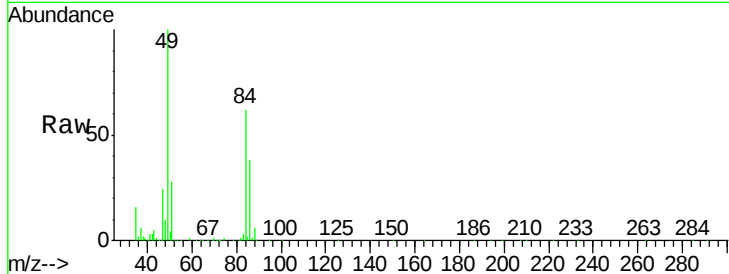
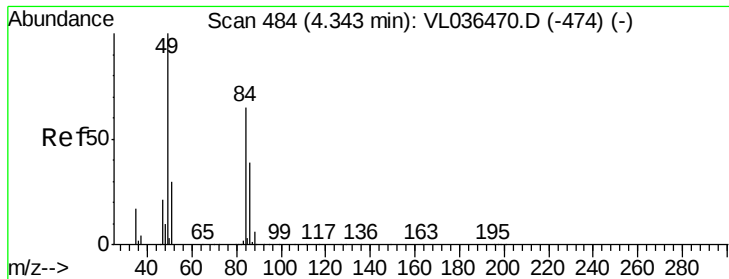
Tgt Ion: 45 Resp: 615621

Ion Ratio Lower Upper

45 100

58 4.1 2.9 4.3





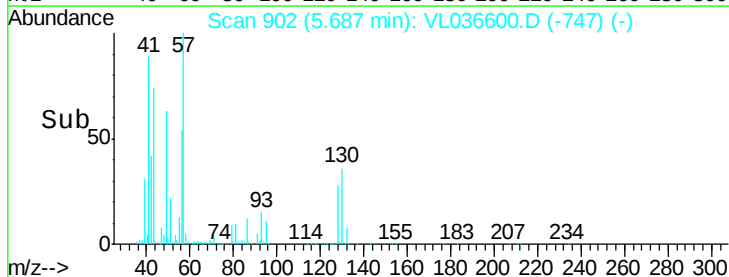
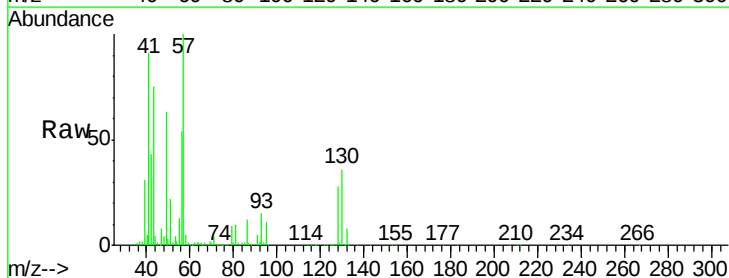
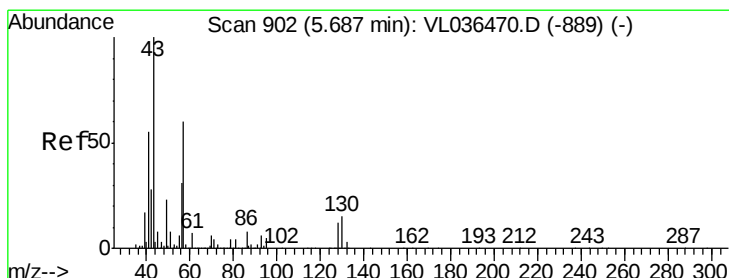
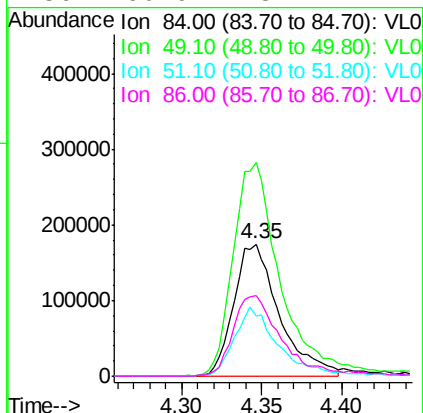
#20
Methvlene Chloride
Concen: 5.374 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Tot Ion	84	Resp	339084
Ion	Ratio	Lower	Upper
84	100		
49	161.2	122.9	184.3
51	45.1	36.9	55.3
86	60.9	48.2	72.4

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-2

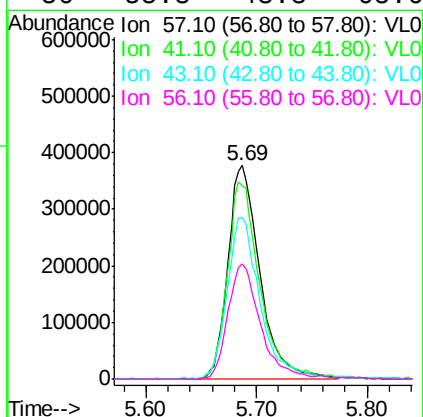
Manual Integrations
APPROVED

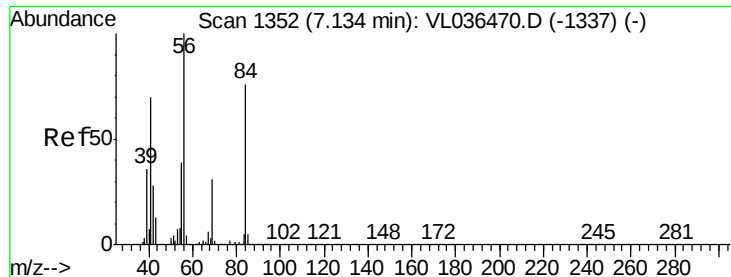
MMDadoda
4/2/2021 6:52:23 PM



#26
Hexane
Concen: 5.109 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Tgt Ion	57	Resp	759606
Ion	Ratio	Lower	Upper
57	100		
41	94.8	77.2	115.8
43	78.8	173.8	260.6#
56	55.8	43.8	65.6





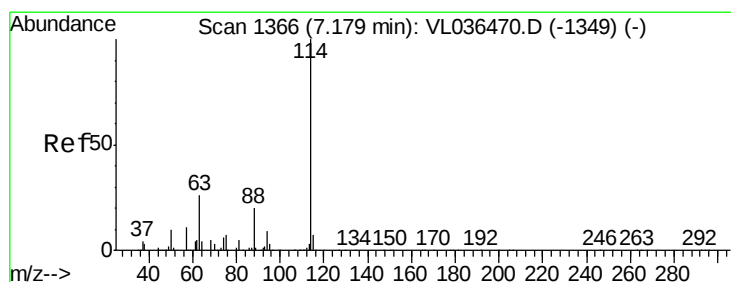
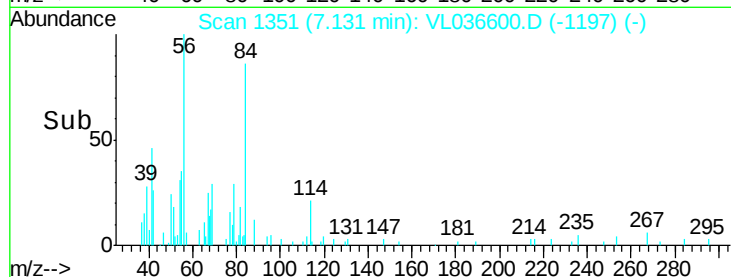
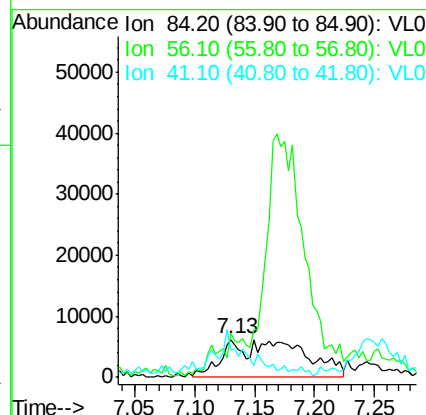
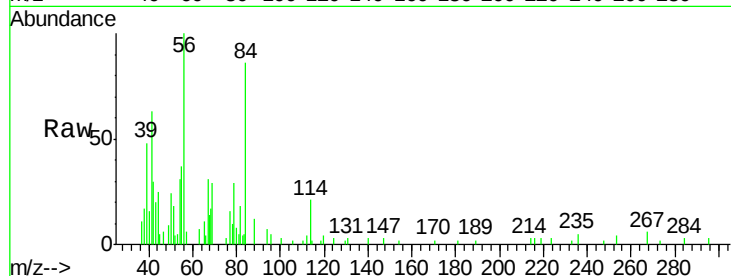
#30
Cyclohexane
Concen: 0.229 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Instrument :
MSVOA_L
ClientSampled :
SSB-IA-2

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	57.6	75.3	112.9#

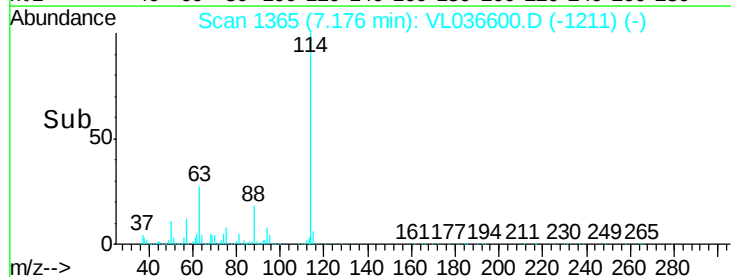
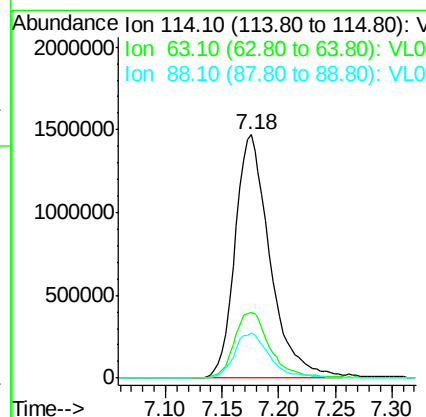
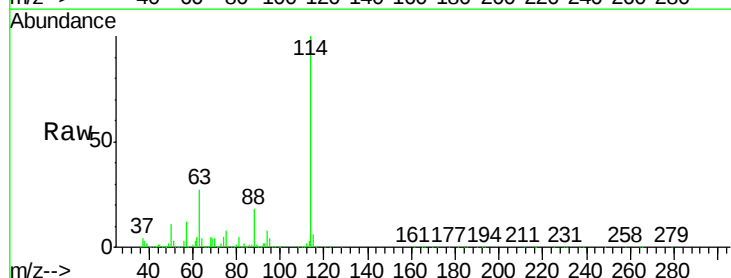
Manual Integrations
APPROVED

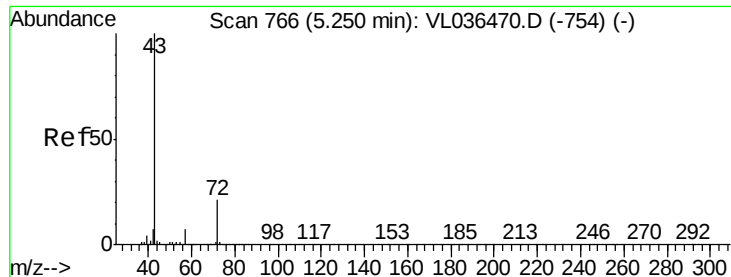
MMDadoda
4/2/2021 6:52:23 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.4	33.6
88	19.0	15.4	23.0





#34

2-Butanone

Concen: 0.645 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.00 min

Lab File: VL036600.D

Acq: 31 Mar 2021 13:44

Instrument :

MSVOA_L

ClientSampleId :

SSB-IA-2

Tot Ion: 43 Resp: 99657

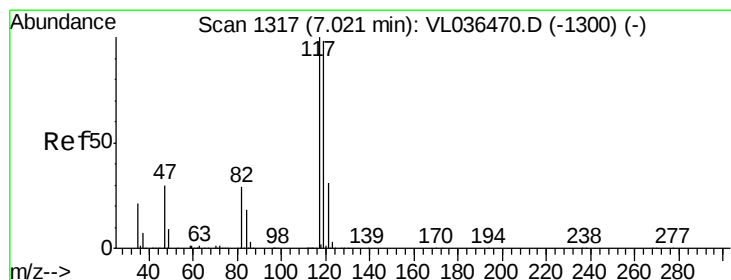
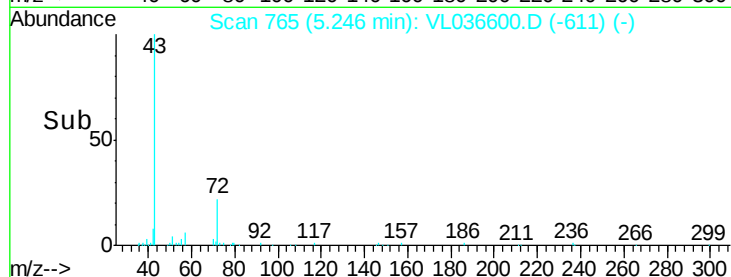
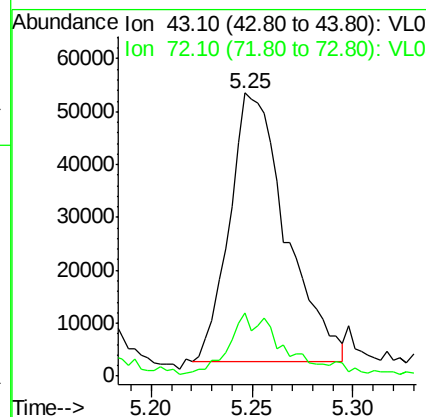
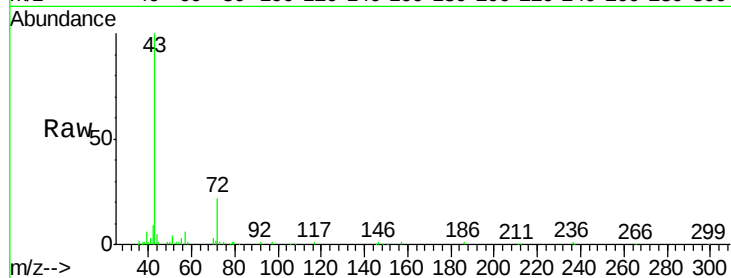
Ion Ratio Lower Upper

43 100

72 23.6 17.0 25.6

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:23 PM



#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VL036600.D

Acq: 31 Mar 2021 13:44

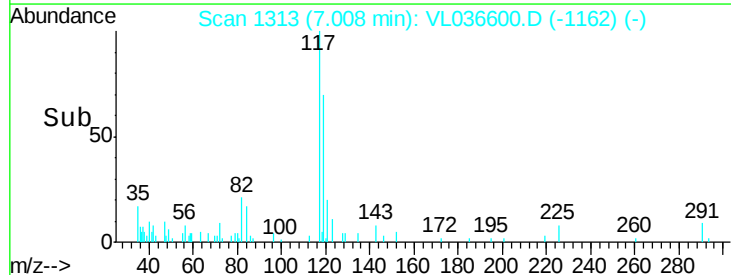
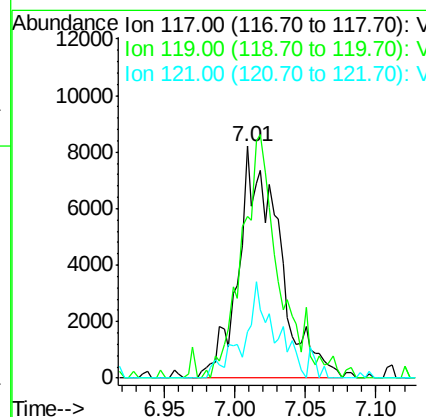
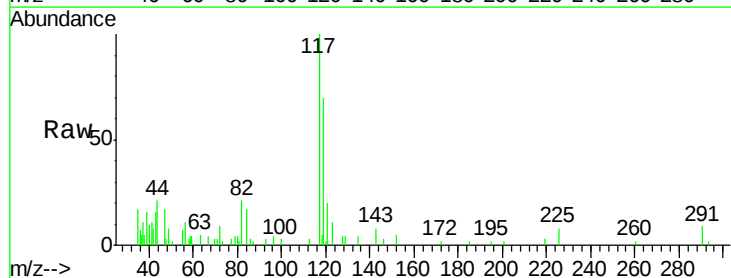
Tgt Ion: 117 Resp: 16590

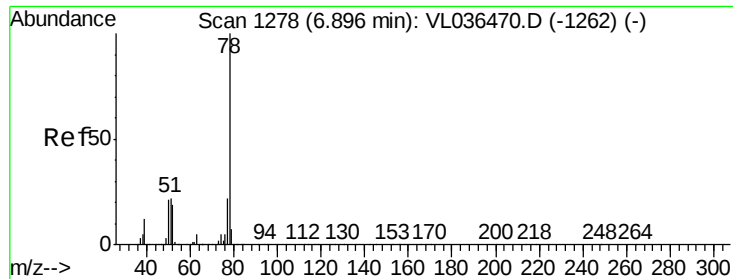
Ion Ratio Lower Upper

117 100

119 69.7 78.2 117.2#

121 19.8 24.5 36.7#





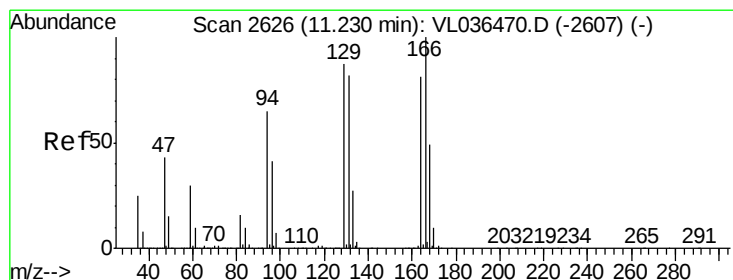
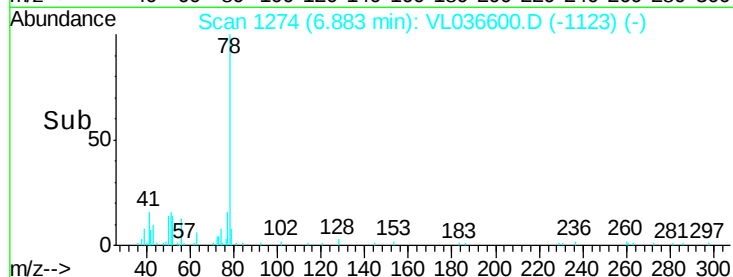
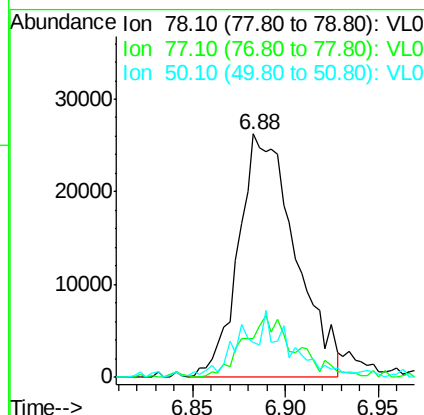
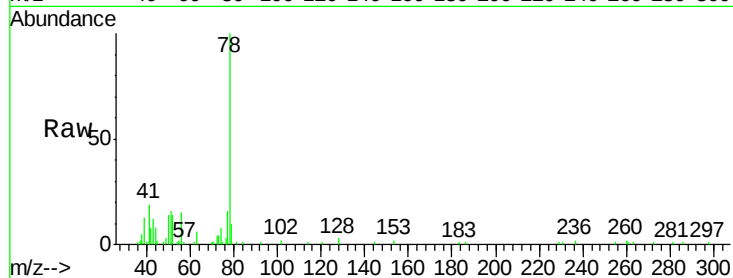
#36
Benzene
Concen: 0.190 ppbv m
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-2

Tot Ion	Ratio	Lower	Upper
78	100		
77	15.9	18.0	27.0#
50	14.3	16.5	24.7#

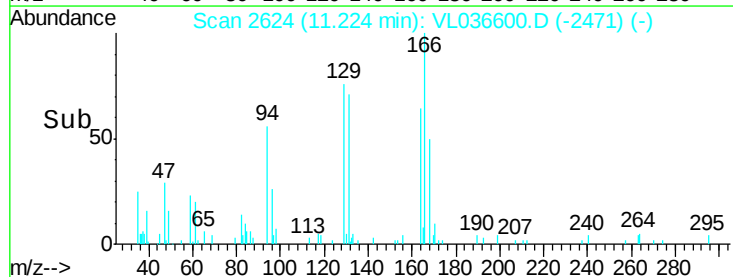
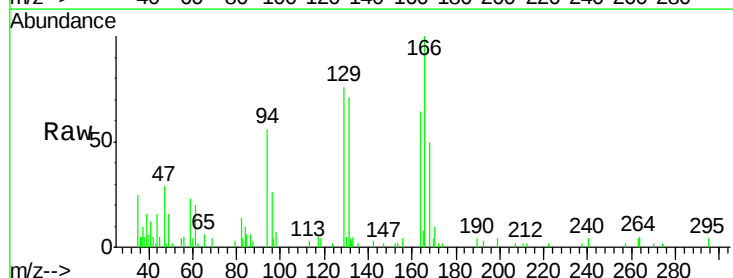
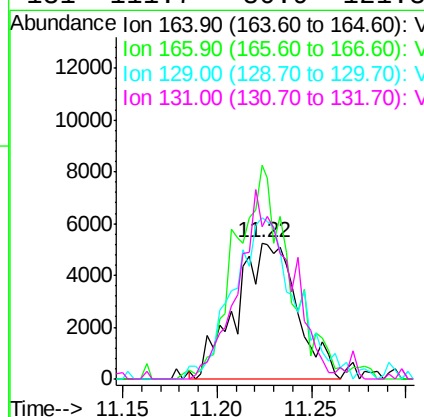
Manual Integrations
APPROVED

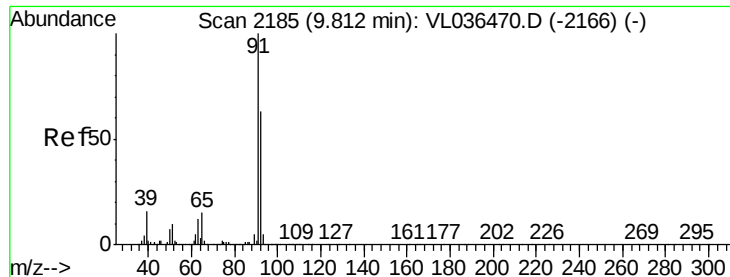
MMDadoda
4/2/2021 6:52:23 PM



#52
Tetrachloroethene
Concen: 0.110 ppbv m
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Tgt Ion	Ratio	Lower	Upper
164	100		
166	157.0	98.3	147.5#
129	118.9	85.8	128.8
131	111.7	80.9	121.3





#53

Toluene

Concen: 6.267 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL036600.D

Acq: 31 Mar 2021 13:44

Instrument :

MSVOA_L

ClientSampleId :

SSB-IA-2

Tot Ion: 91 Resp: 1946910

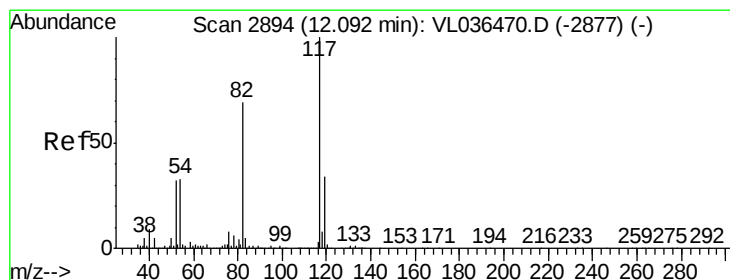
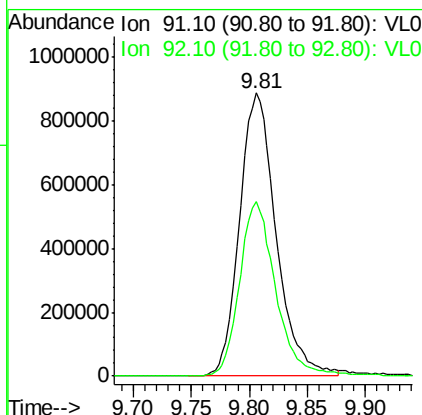
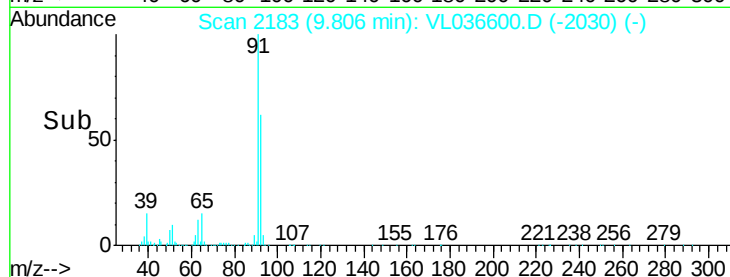
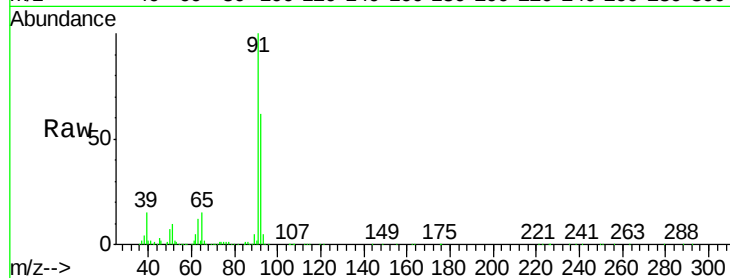
Ion Ratio Lower Upper

91 100

92 61.3 48.8 73.2

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:23 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL036600.D

Acq: 31 Mar 2021 13:44

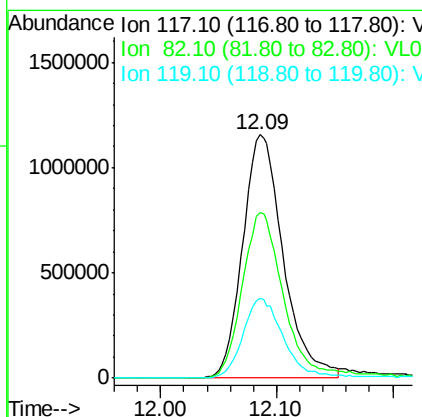
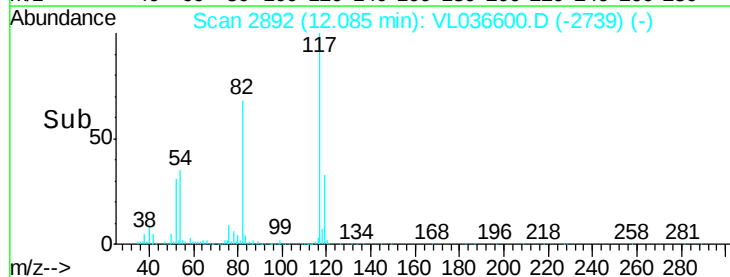
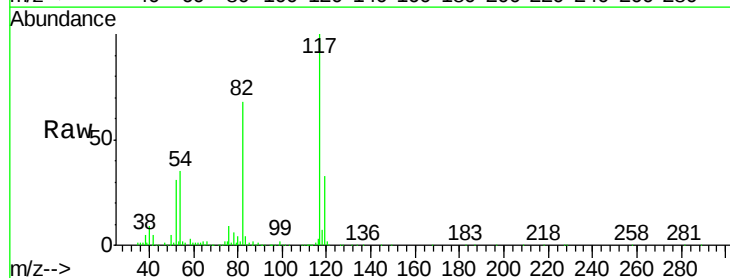
Tgt Ion: 117 Resp: 2812203

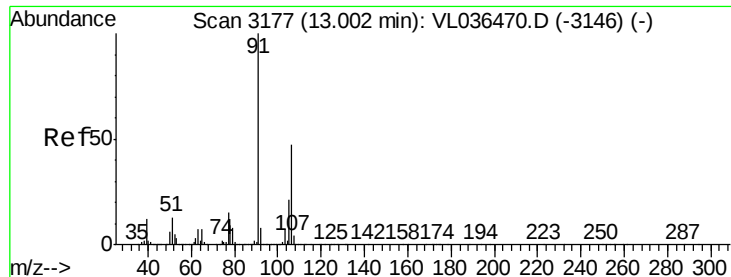
Ion Ratio Lower Upper

117 100

82 70.5 57.4 86.0

119 33.4 47.4 71.0#





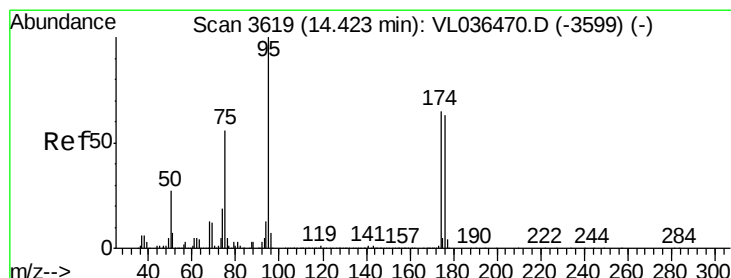
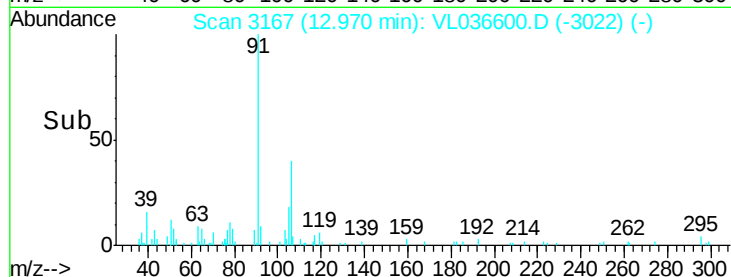
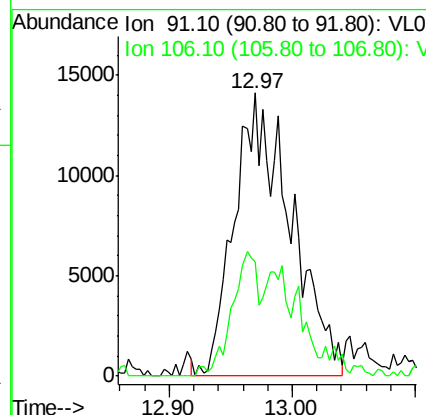
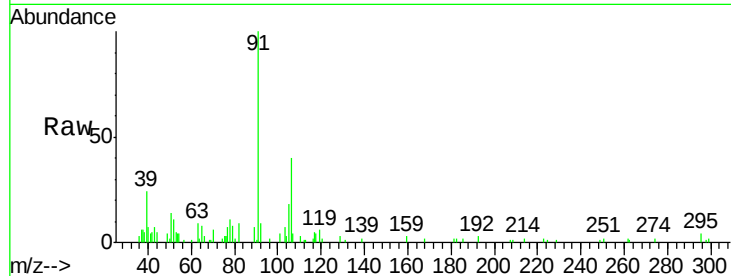
#59
m/p-Xylene
Concen: 0.126 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-2

Tot Ion: 91 Resp: 44791
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:23 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.082 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL036600.D
Acq: 31 Mar 2021 13:44

Tgt Ion: 95 Resp: 2259792
Ion Ratio Lower Upper
95 100
174 65.8 51.0 76.6
175 5.0 3.9 5.9

