

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036157.D
 Acq On : 11 Dec 2020 9:58
 Operator : SY/AP
 Sample : L4930-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-SG-1

Manual Integrations
 APPROVED

MMDadoda
 12/15/2020 4:52:12 PM

Quant Time: Dec 16 03:02:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1269777	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.16	114	2448100	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2178060	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1854678	10.72	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	42041m	0.284	ppbv	
3) Chlorodifluoromethane	2.97	51	70483	0.487	ppbv #	86
4) Chloromethane	3.13	50	39085m	0.550	ppbv	
9) Propene	3.00	41	54470m	0.751	ppbv	
11) Trichlorofluoromethane	3.93	101	41720	0.240	ppbv	86
13) Ethanol	3.60	45	136455m	13.639	ppbv	
15) Acetone	3.84	43	483894	3.171	ppbv	95
19) Isopropyl Alcohol	3.98	45	44197	0.474	ppbv #	100
20) Methylene Chloride	4.33	84	364419	5.827	ppbv	99
26) Hexane	5.67	57	279436	2.037	ppbv #	41
34) 2-Butanone	5.24	43	41973m	0.258	ppbv	
36) Benzene	6.87	78	51353m	0.248	ppbv	
53) Toluene	9.79	91	333557m	1.432	ppbv	
58) Ethyl Benzene	12.70	91	31913m	0.107	ppbv	
59) m/p-Xylene	12.96	91	84121m	0.335	ppbv	

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

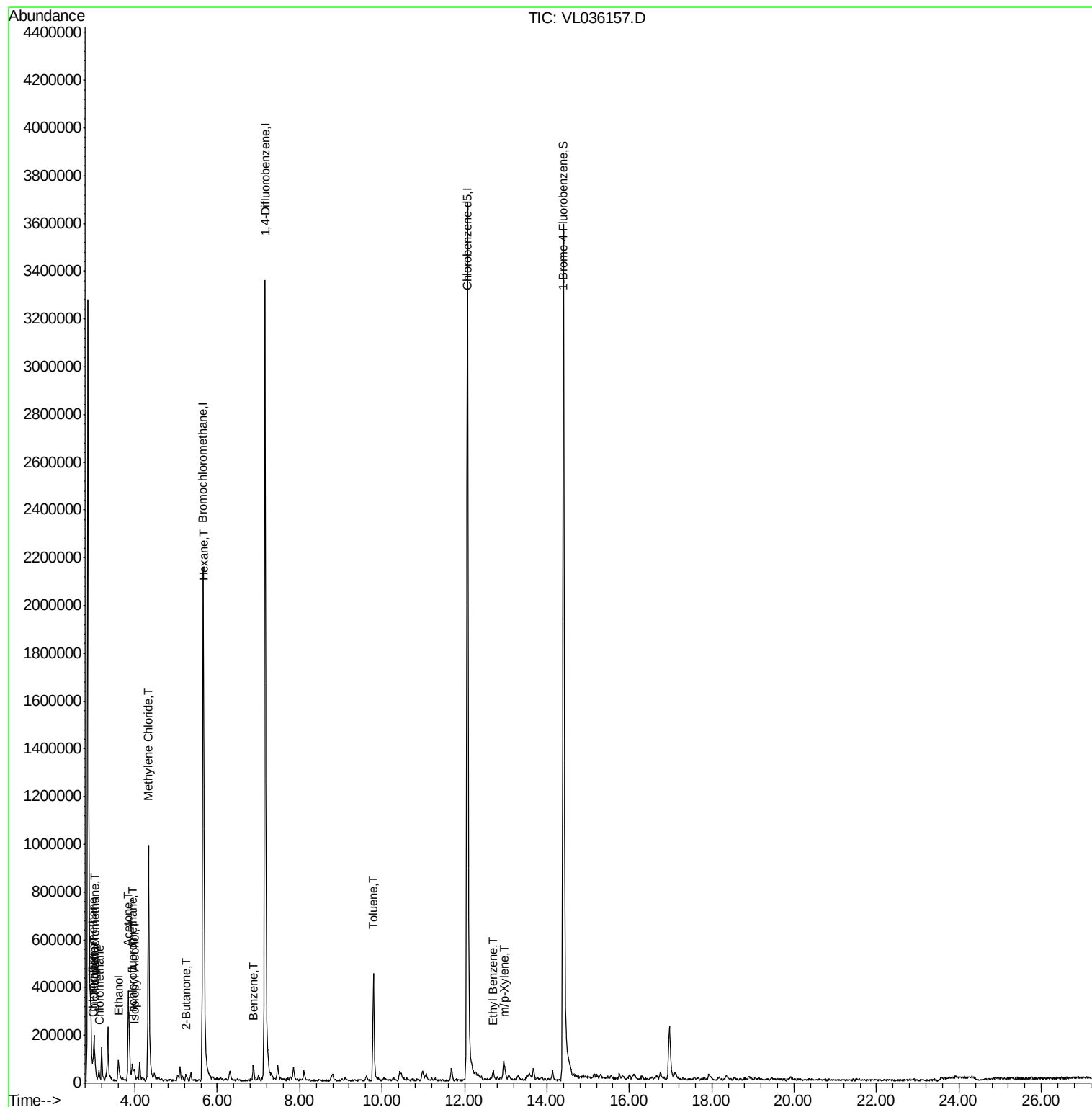
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
Data File : VL036157.D
Acq On : 11 Dec 2020 9:58
Operator : SY/AP
Sample : L4930-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

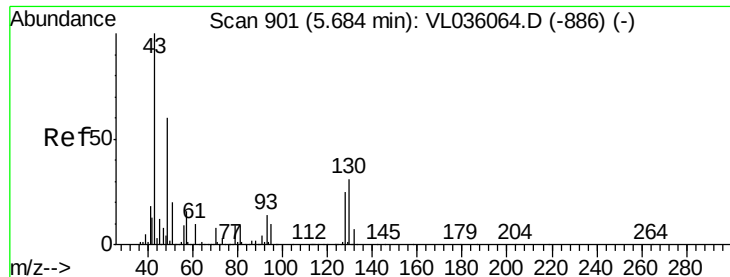
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-SG-1

Manual Integrations
APPROVED

MMDadoda
12/15/2020 4:52:12 PM

Quant Time: Dec 16 03:02:10 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.04 min

Lab File: VL036157.D

Acq: 11 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-SG-1

Tot Ion: 49 Resp: 1269777

Ion Ratio Lower Upper

49 100

128 34.5 21.1 63.1

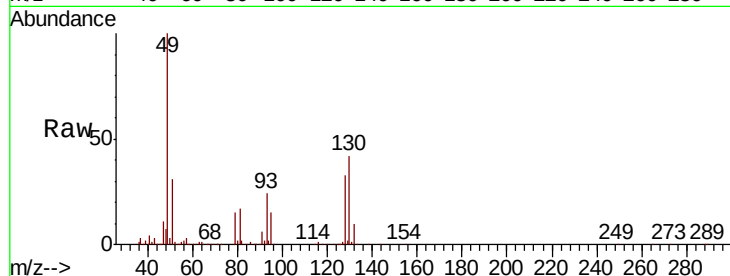
130 45.3 27.1 81.3

Manual Integrations

APPROVED

MMDadoda

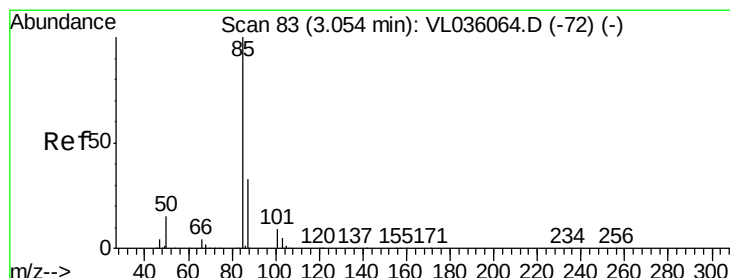
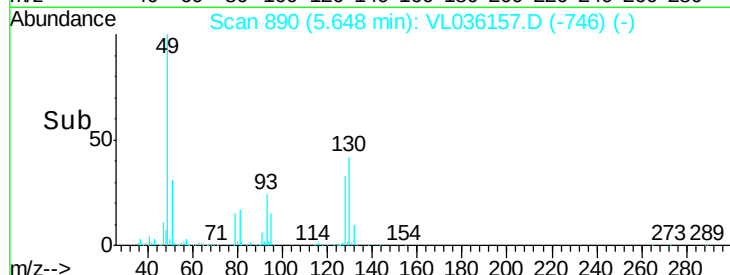
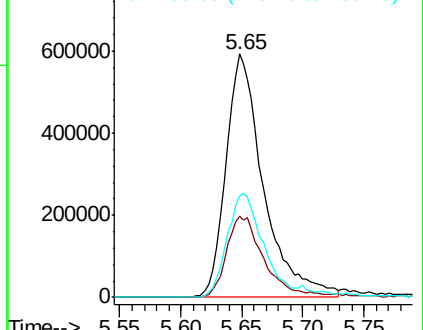
12/15/2020 4:52:12 PM



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



#2

Dichlorodifluoromethane

Concen: 0.284 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036157.D

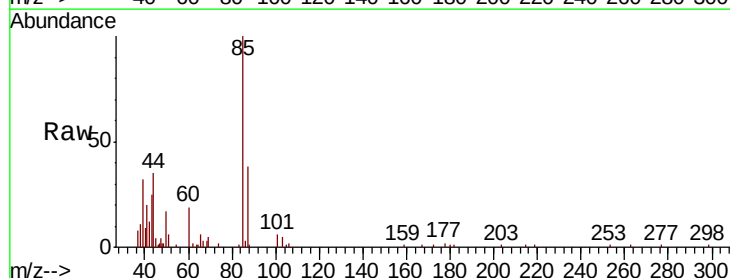
Acq: 11 Dec 2020 9:58

Tgt Ion: 85 Resp: 42041

Ion Ratio Lower Upper

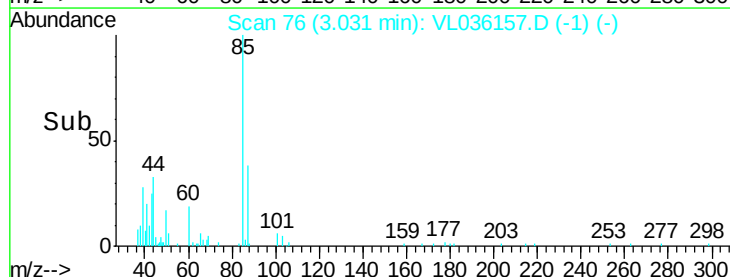
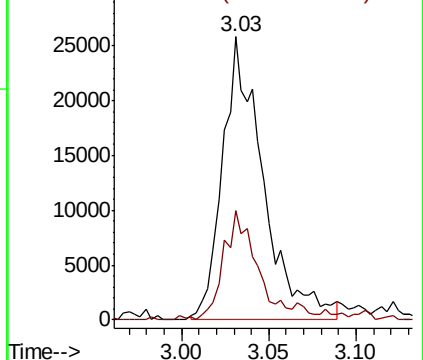
85 100

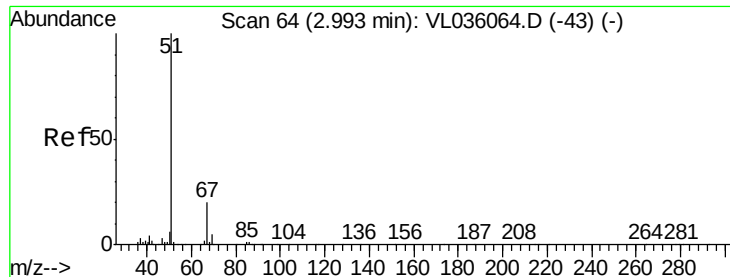
87 38.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.487 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL036157.D

Acq: 11 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-SG-1

Tot Ion: 51 Resp: 70483

Ion Ratio Lower Upper

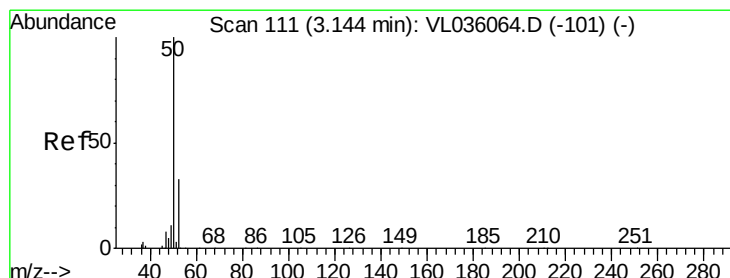
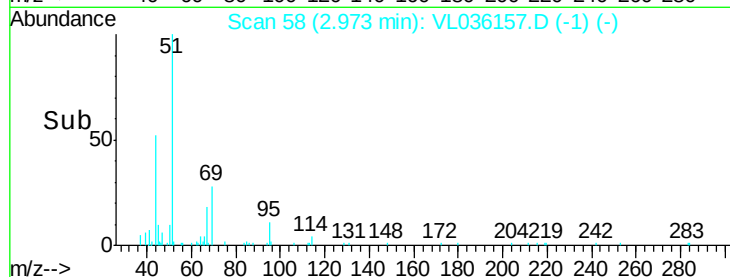
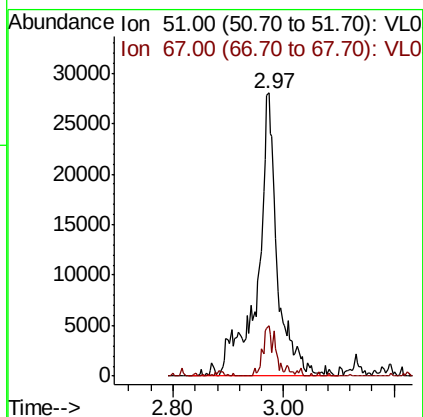
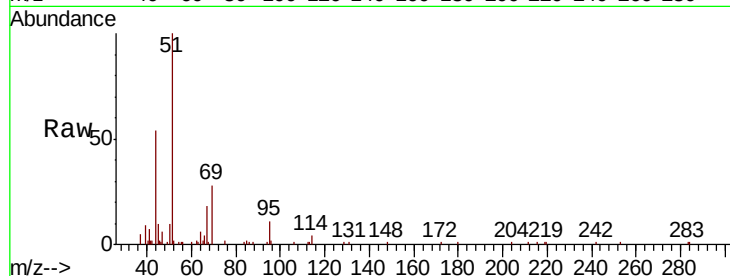
51 100

67 11.8 14.3 21.5#

Manual Integrations
APPROVED

MMDadoda

12/15/2020 4:52:12 PM



#4

Chloromethane

Concen: 0.550 ppbv m

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL036157.D

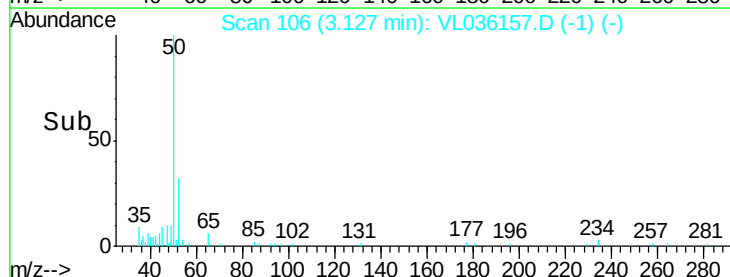
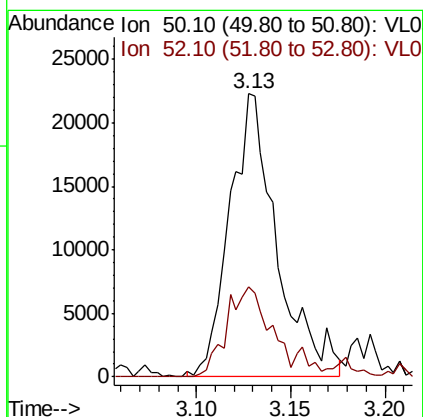
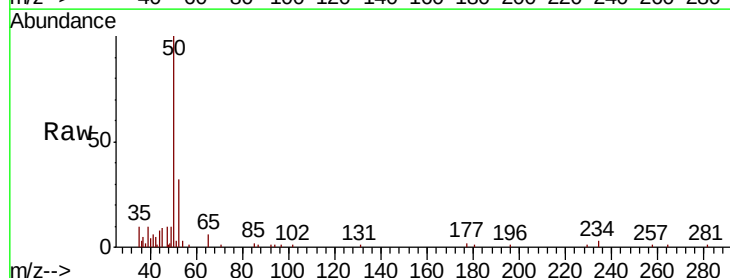
Acq: 11 Dec 2020 9:58

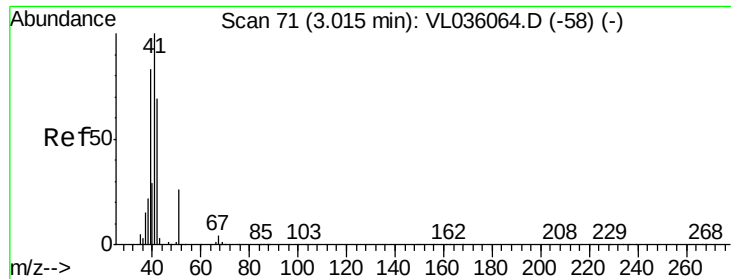
Tgt Ion: 50 Resp: 39085

Ion Ratio Lower Upper

50 100

52 31.9 26.1 39.1





#9

Propene

Concen: 0.751 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. -0.02 min

Lab File: VL036157.D

Acq: 11 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-SG-1

Tot Ion: 41 Resp: 54470

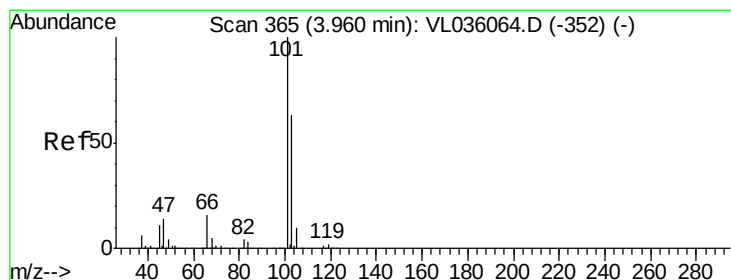
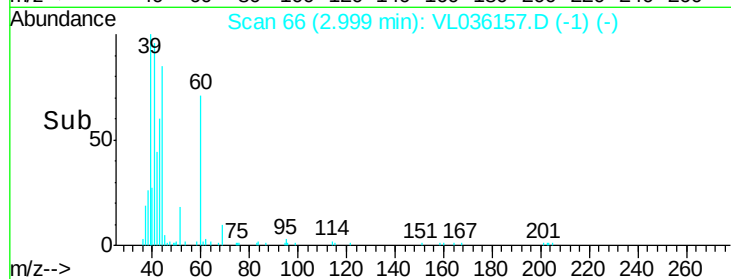
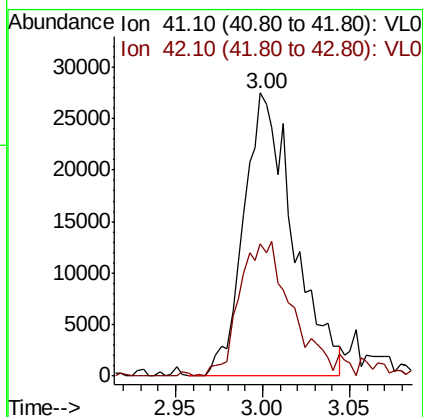
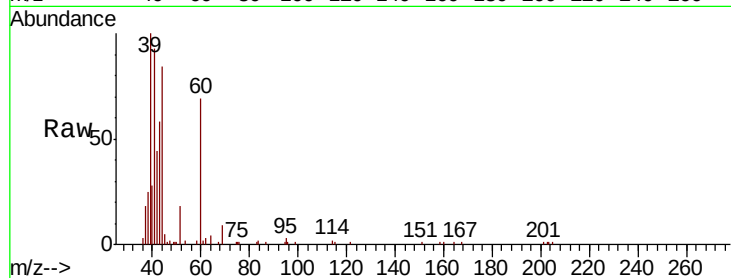
Ion Ratio Lower Upper

41 100

42 0.0 57.0 85.6#

Manual Integrations
APPROVED

MMDadoda
12/15/2020 4:52:12 PM



#11

Trichlorofluoromethane

Concen: 0.240 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.03 min

Lab File: VL036157.D

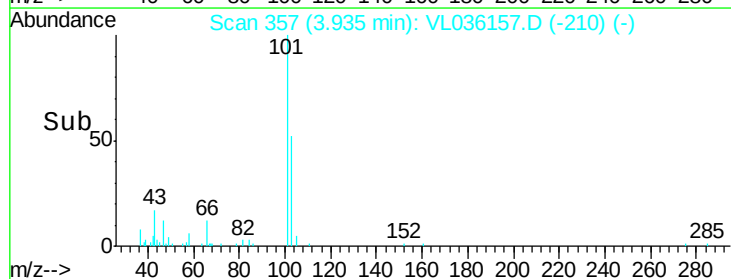
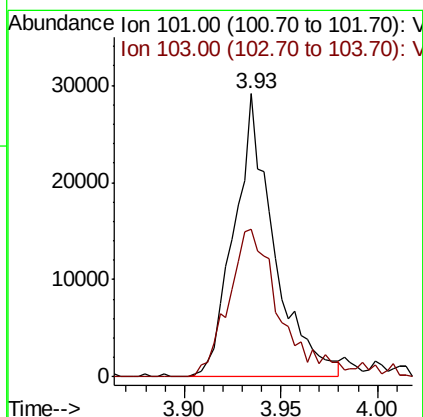
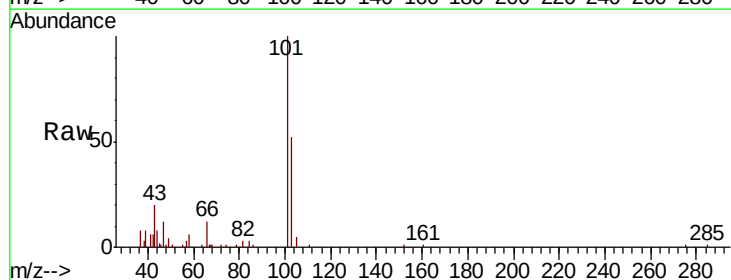
Acq: 11 Dec 2020 9:58

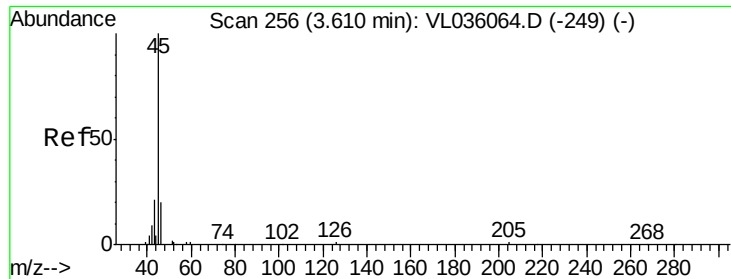
Tgt Ion:101 Resp: 41720

Ion Ratio Lower Upper

101 100

103 52.1 50.3 75.5





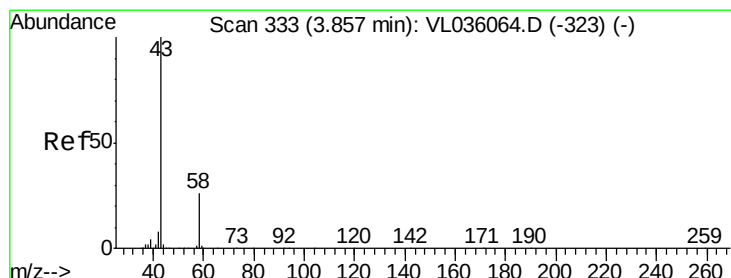
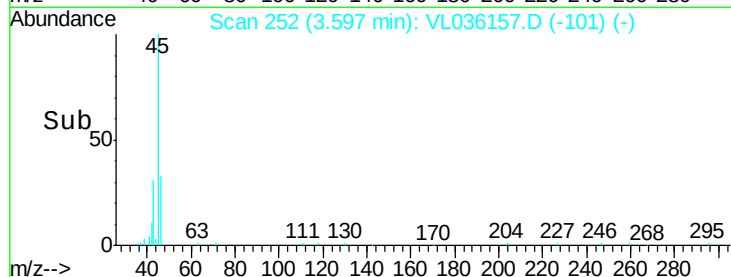
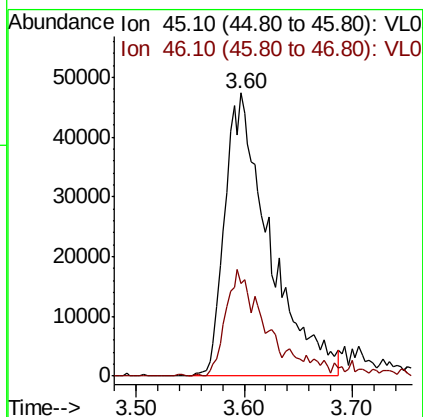
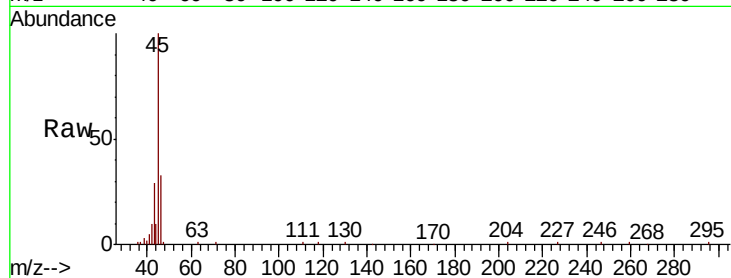
#13
Ethanol
Concen: 13.639 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL036157.D
Acq: 11 Dec 2020 9:58

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-SG-1

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	19.0	75.8#

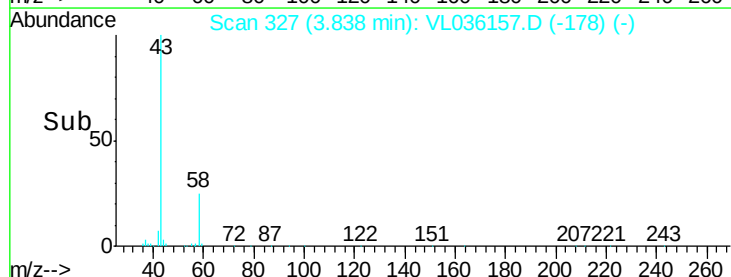
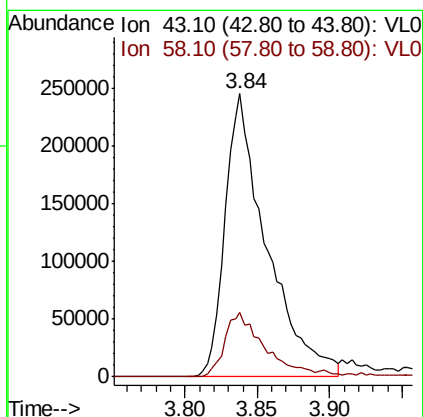
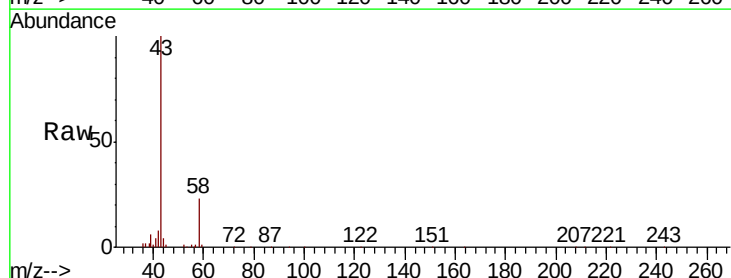
Manual Integrations
APPROVED

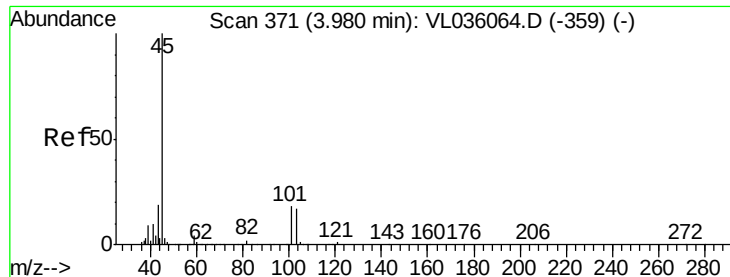
MMDadoda
12/15/2020 4:52:12 PM



#15
Acetone
Concen: 3.171 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.02 min
Lab File: VL036157.D
Acq: 11 Dec 2020 9:58

Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.6	20.9	31.3





#19

Isopropyl Alcohol

Concen: 0.474 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.00 min

Lab File: VL036157.D

Acq: 11 Dec 2020 9:58

Tot Ion: 45 Resp: 44197

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0

Instrument :

MSVOA_L

ClientSampleId :

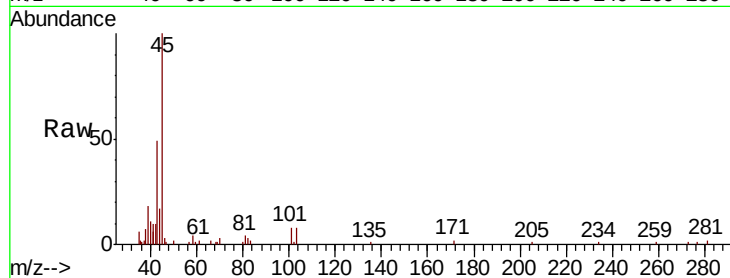
OFFSITE-SG-1

Manual Integrations

APPROVED

MMDadoda

12/15/2020 4:52:12 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

20000

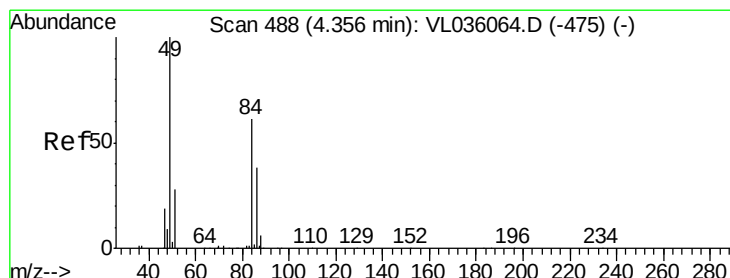
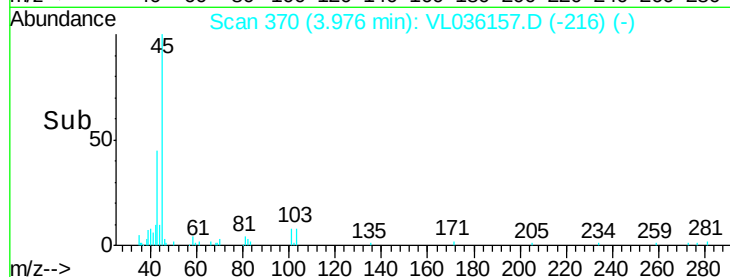
15000

10000

5000

0

Time-->



#20

Methylene Chloride

Concen: 5.827 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.03 min

Lab File: VL036157.D

Acq: 11 Dec 2020 9:58

Tgt Ion: 84 Resp: 364419

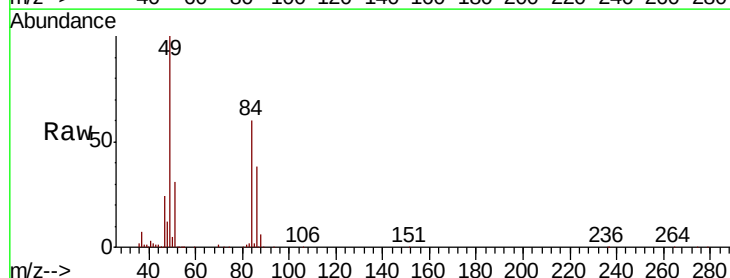
Ion Ratio Lower Upper

84 100

49 166.1 133.0 199.4

51 51.0 38.9 58.3

86 63.1 48.8 73.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

500000

400000

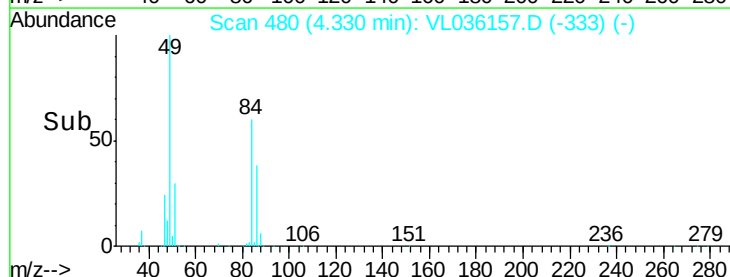
300000

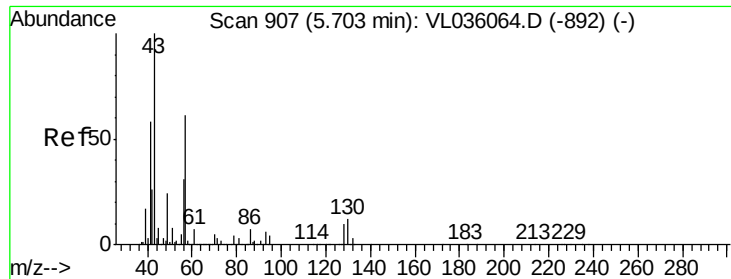
200000

100000

0

Time-->





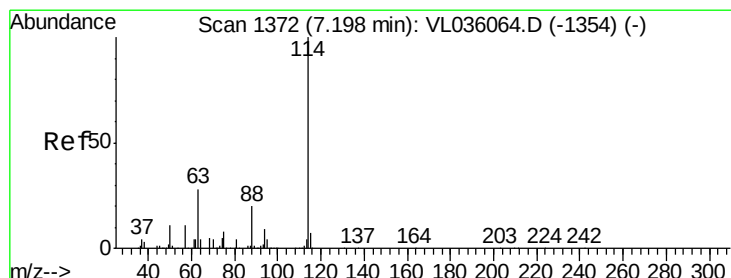
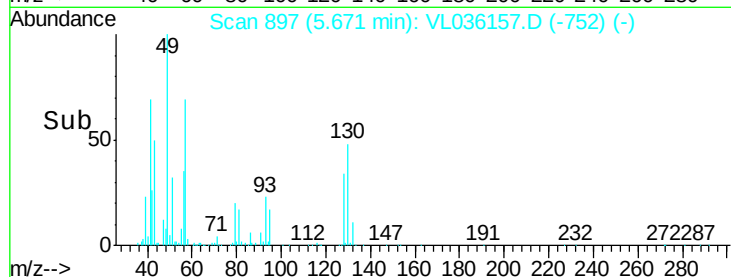
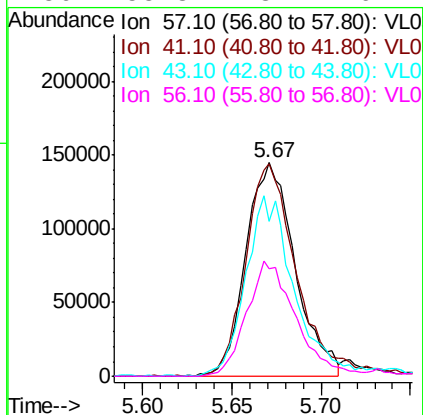
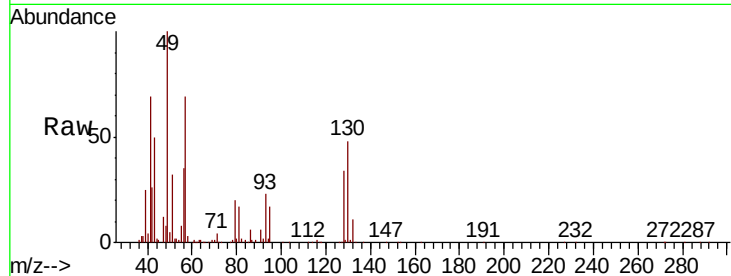
#26
Hexane
Concen: 2.037 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.03 min
Lab File: VL036157.D
Acq: 11 Dec 2020 9:58

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-SG-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	105.5	82.9	124.3
43	85.7	199.9	299.9#
56	55.8	43.1	64.7

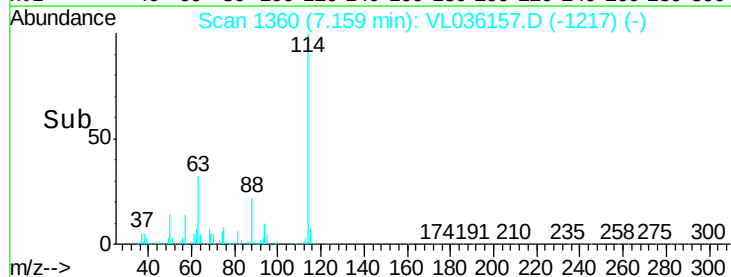
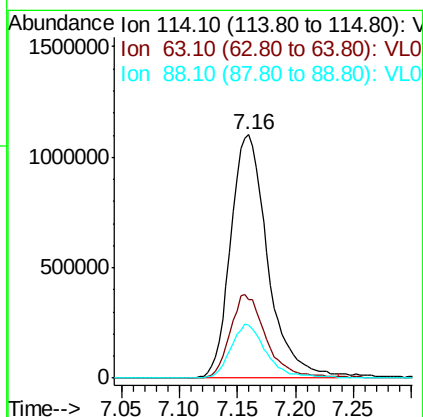
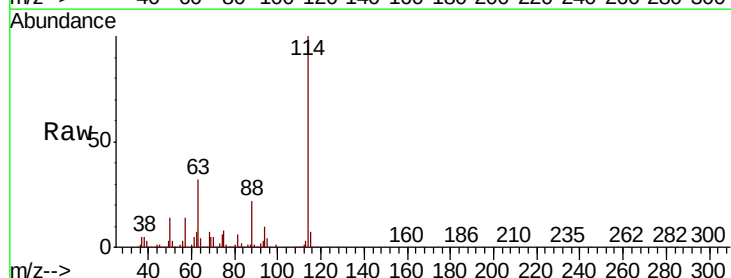
Manual Integrations
APPROVED

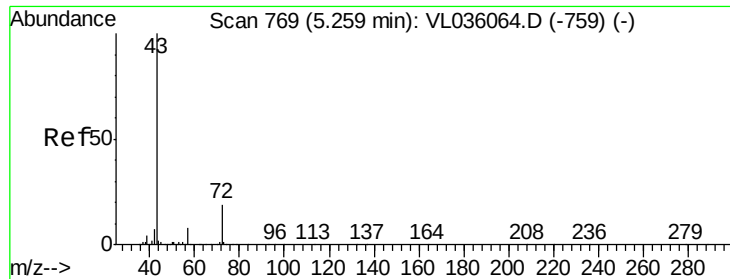
MMDadoda
12/15/2020 4:52:12 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.04 min
Lab File: VL036157.D
Acq: 11 Dec 2020 9:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	33.6	23.6	35.4
88	21.6	15.8	23.6





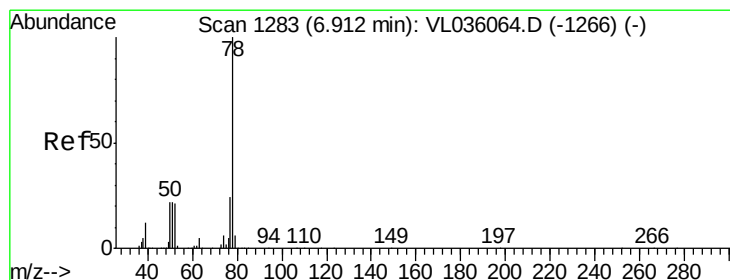
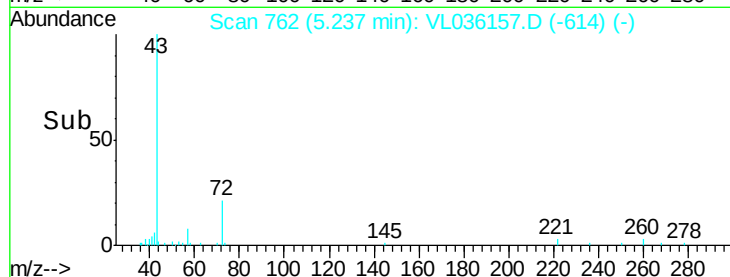
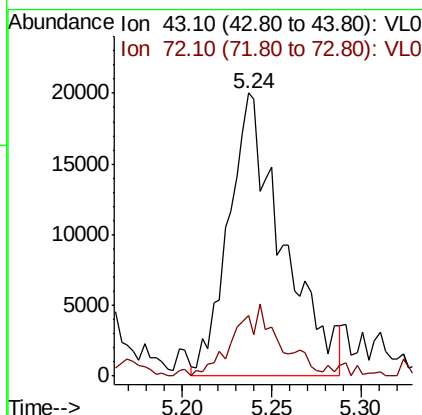
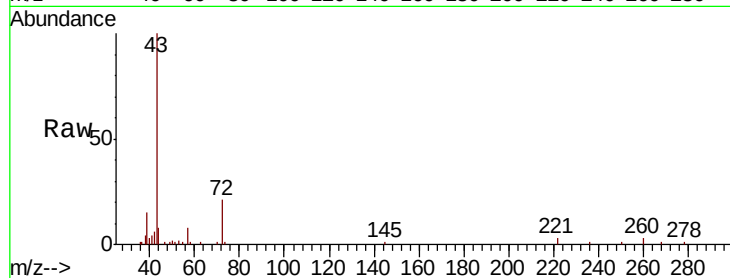
#34
2-Butanone
Concen: 0.258 ppbv m
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL036157.D
Acq: 11 Dec 2020 9:58

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-SG-1

Tot Ion: 43 Resp: 41973
Ion Ratio Lower Upper
43 100
72 0.0 16.5 24.7#

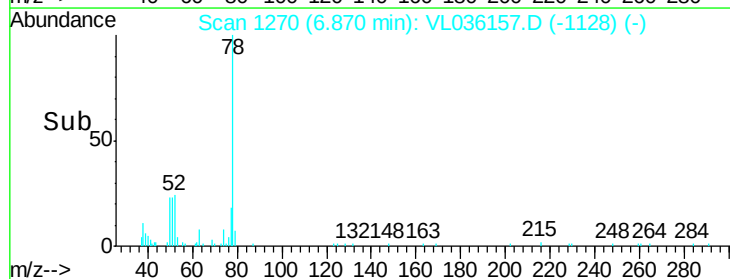
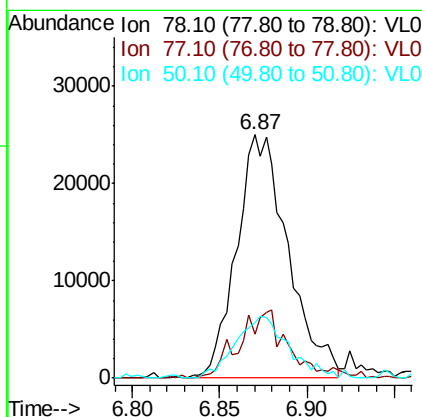
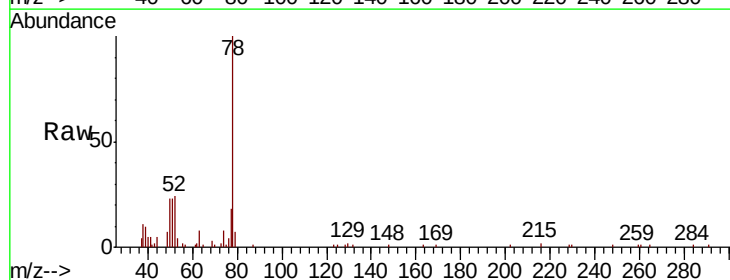
Manual Integrations
APPROVED

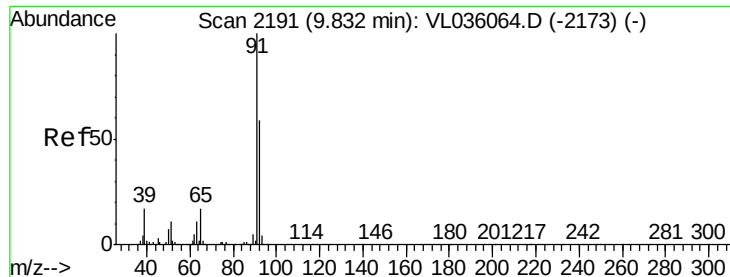
MMDadoda
12/15/2020 4:52:12 PM



#36
Benzene
Concen: 0.248 ppbv m
RT: 6.87 min Scan# 1270
Delta R.T. -0.04 min
Lab File: VL036157.D
Acq: 11 Dec 2020 9:58

Tgt Ion: 78 Resp: 51353
Ion Ratio Lower Upper
78 100
77 17.8 19.4 29.2#
50 22.8 17.8 26.8





#53

Toluene

Concen: 1.432 ppbv m

RT: 9.79 min Scan# 2179

Delta R.T. -0.04 min

Lab File: VL036157.D

Acq: 11 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-SG-1

Tot Ion: 91 Resp: 33357

Ion Ratio Lower Upper

91 100

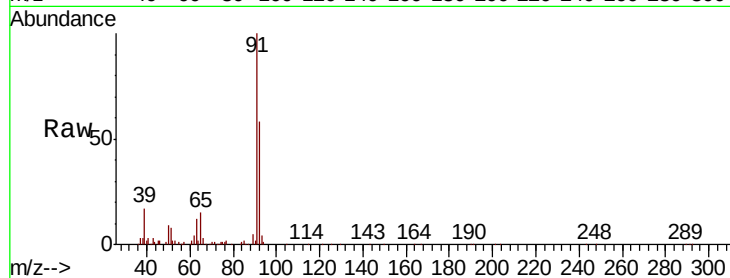
92 61.5 48.2 72.2

Manual Integrations

APPROVED

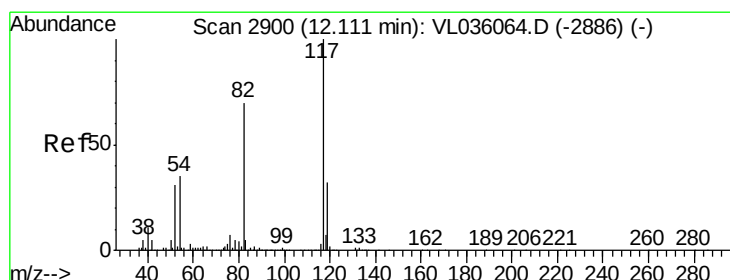
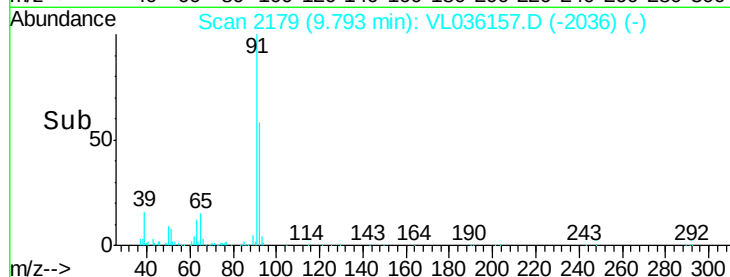
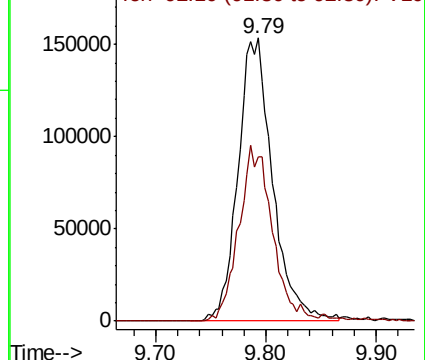
MMDadoda

12/15/2020 4:52:12 PM



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: 12.07 min Scan# 2888

Delta R.T. -0.04 min

Lab File: VL036157.D

Acq: 11 Dec 2020 9:58

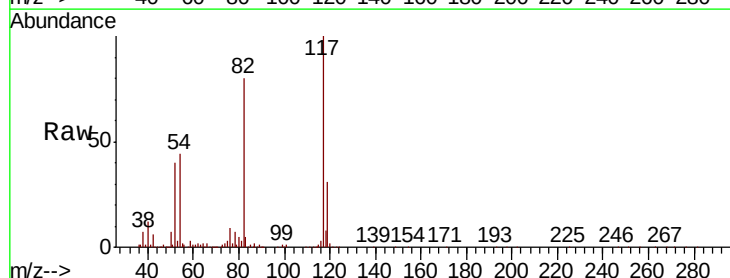
Tgt Ion: 117 Resp: 2178060

Ion Ratio Lower Upper

117 100

82 81.0 0.0 0.0#

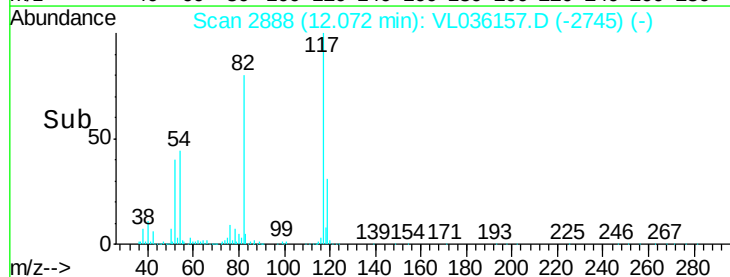
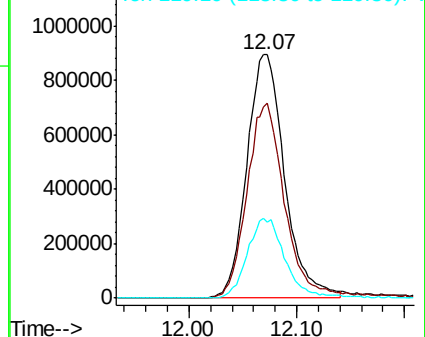
119 32.6 0.0 0.0#

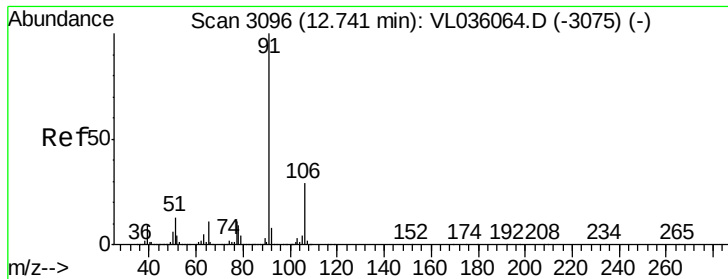


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.107 ppbv m

RT: 12.70 min Scan# 3083

Delta R.T. -0.04 min

Lab File: VL036157.D

Acq: 11 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-SG-1

Tot Ion: 91 Resp: 31913

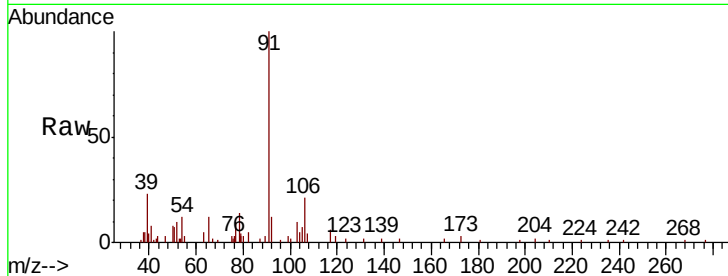
Ion Ratio Lower Upper

91 100

106 21.3 23.0 34.4#

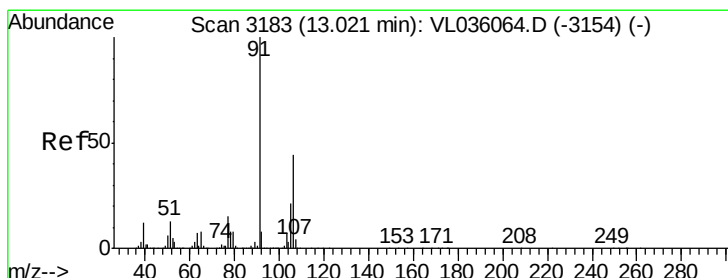
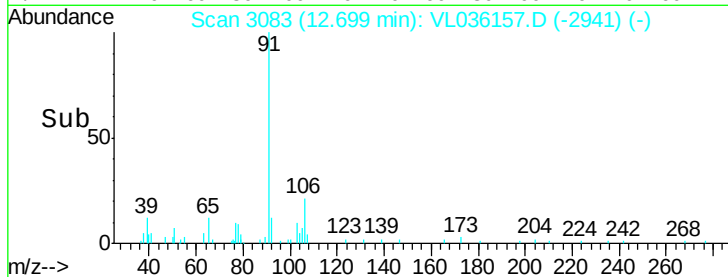
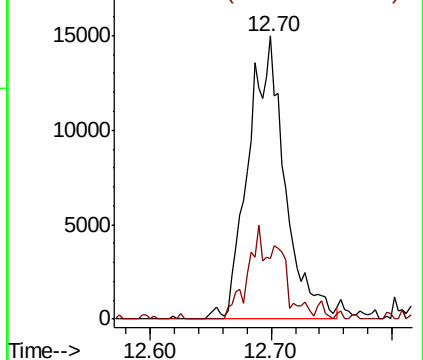
Manual Integrations
APPROVED

MMDadoda
12/15/2020 4:52:12 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.335 ppbv m

RT: 12.96 min Scan# 3163

Delta R.T. -0.06 min

Lab File: VL036157.D

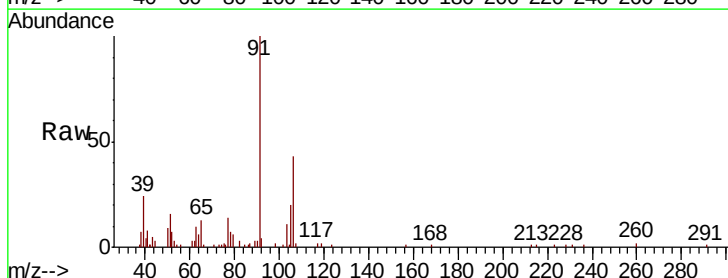
Acq: 11 Dec 2020 9:58

Tgt Ion: 91 Resp: 84121

Ion Ratio Lower Upper

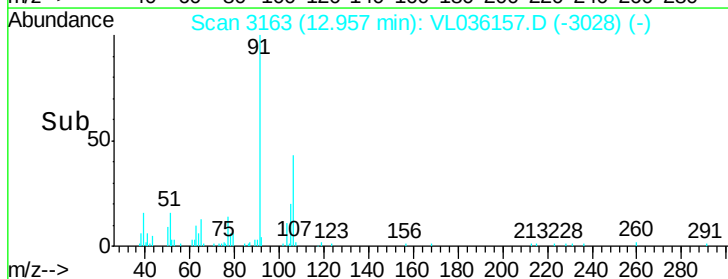
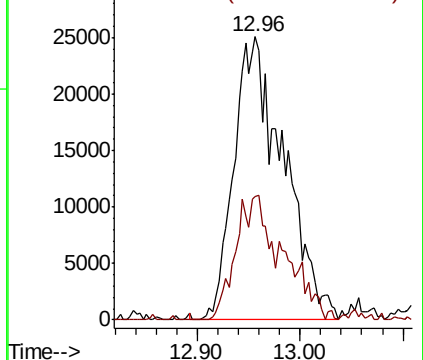
91 100

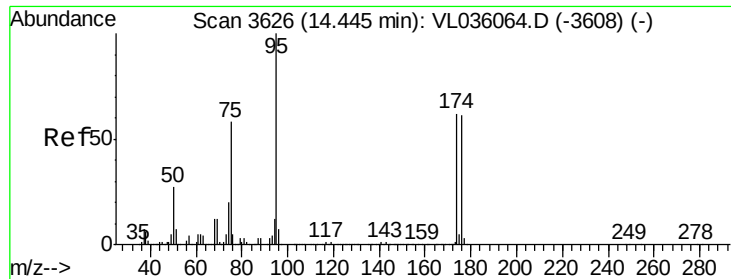
106 0.0 33.6 50.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.724 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.05 min
 Lab File: VL036157.D
 Acq: 11 Dec 2020 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-SG-1

Tot Ion: 95 Resp: 1854678
 Ion Ratio Lower Upper
 95 100
 174 56.0 50.7 76.1
 175 3.8 4.0 6.0#

Manual Integrations
 APPROVED

MMDadoda
 12/15/2020 4:52:12 PM

