

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036079.D
 Acq On : 8 Dec 2020 00:28
 Operator : SY/AP
 Sample : L4948-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1B

Manual Integrations
 APPROVED

MMDadoda
 12/11/2020 5:45:16 PM

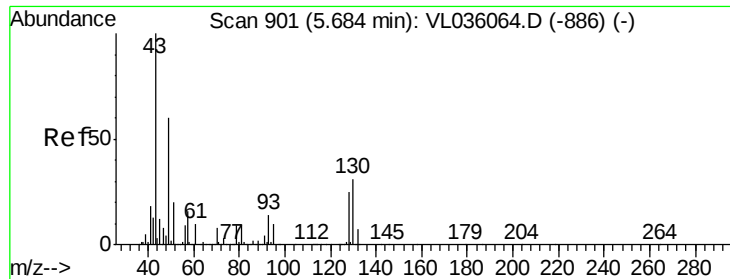
Quant Time: Dec 08 21:20:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1170873	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2577195	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2317182	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1867962	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	43835	0.321	ppbv	94
3) Chlorodifluoromethane	2.99	51	61119	0.458	ppbv #	90
4) Chloromethane	3.14	50	27833	0.424	ppbv #	70
9) Propene	3.02	41	29466	0.440	ppbv #	77
11) Trichlorofluoromethane	3.96	101	42072m	0.262	ppbv	
13) Ethanol	3.63	45	444178m	48.147	ppbv	
15) Acetone	3.86	43	649335	4.614	ppbv	99
19) Isopropyl Alcohol	3.99	45	65011m	0.756	ppbv	
20) Methylene Chloride	4.36	84	2357124	40.876	ppbv	98
26) Hexane	5.70	57	1019508	8.058	ppbv #	37
35) Carbon Tetrachloride	7.04	117	10574m	0.070	ppbv	
36) Benzene	6.91	78	31182m	0.143	ppbv	
53) Toluene	9.83	91	39279m	0.160	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampled :

IA-1B

Tot Ion: 49 Resp: 1170873

Ion Ratio Lower Upper

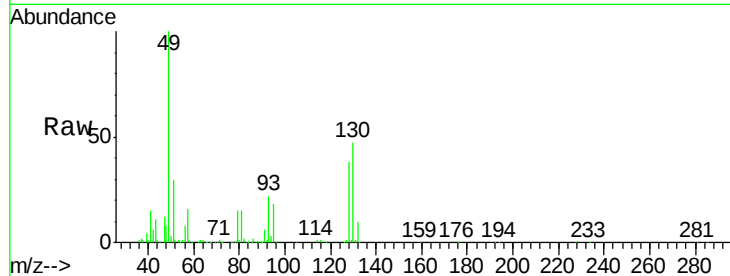
49 100

128 38.3 21.1 63.1

130 49.5 27.1 81.3

Manual Integrations
APPROVED

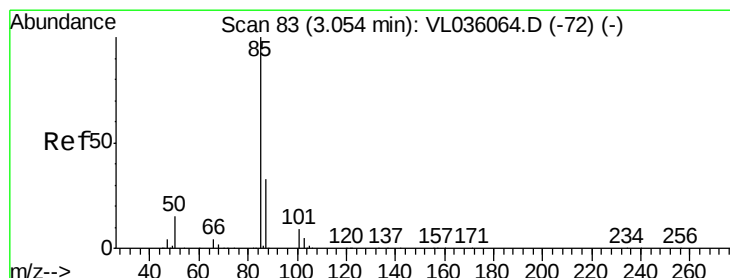
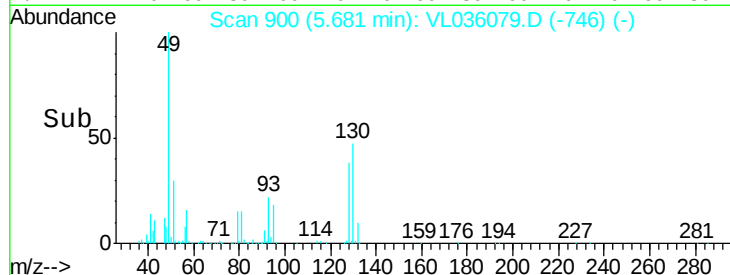
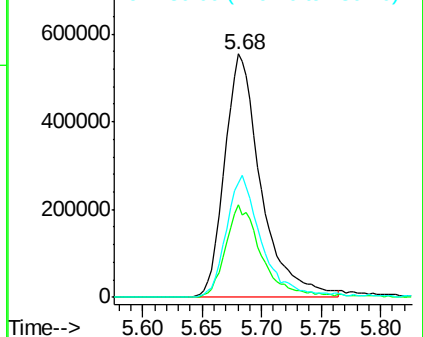
MMDadoda
12/11/2020 5:45:16 PM



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: 0.321 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL036079.D

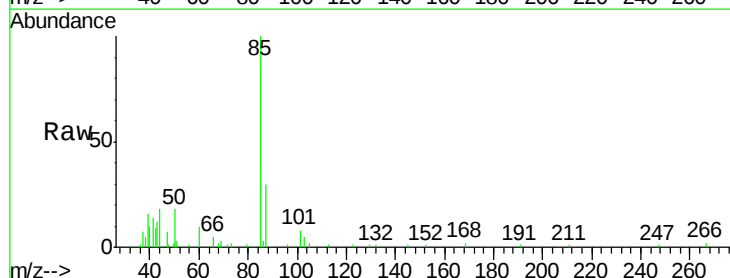
Acq: 8 Dec 2020 00:28

Tgt Ion: 85 Resp: 43835

Ion Ratio Lower Upper

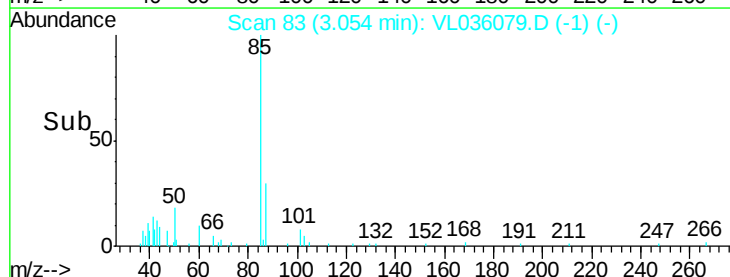
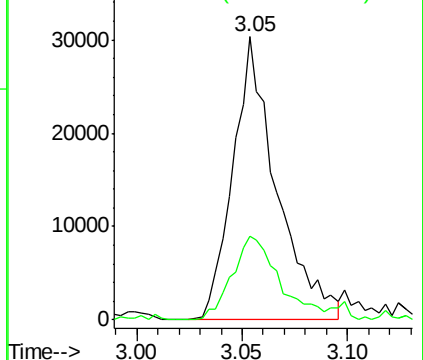
85 100

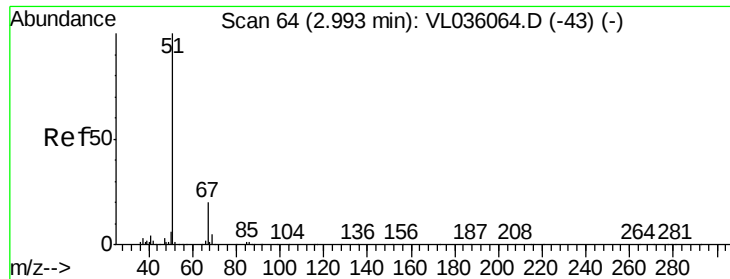
87 29.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.458 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-1B

Tot Ion: 51 Resp: 61119

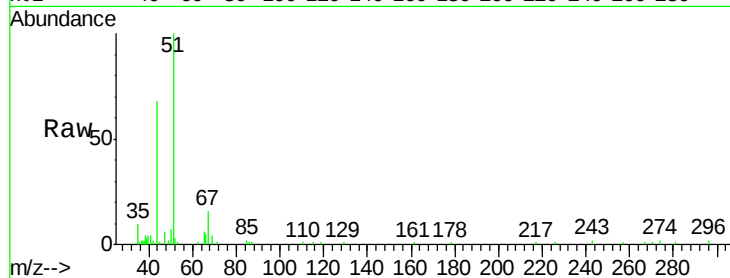
Ion Ratio Lower Upper

51 100

67 13.6 14.3 21.5#

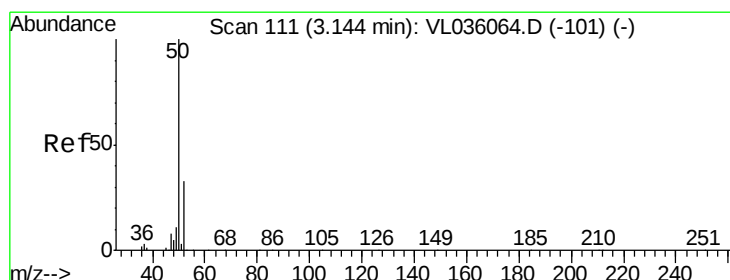
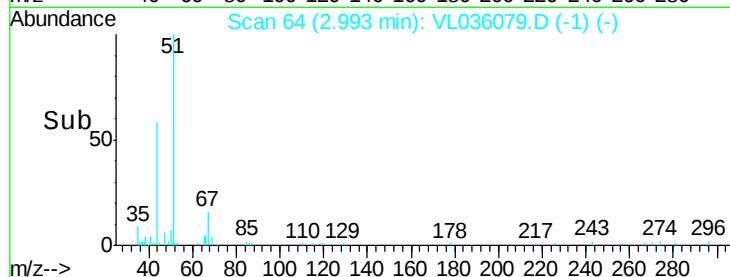
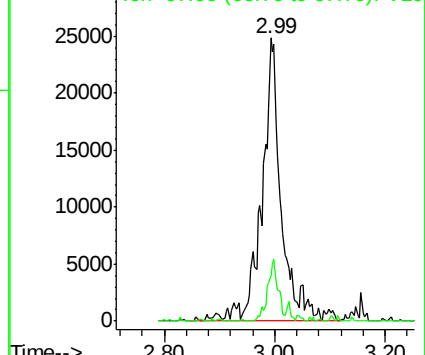
Manual Integrations
APPROVED

MMDadoda
12/11/2020 5:45:16 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.424 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL036079.D

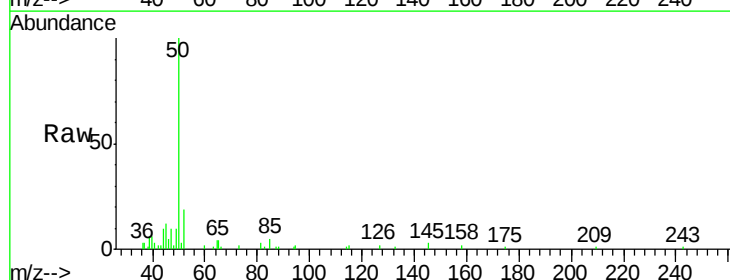
Acq: 8 Dec 2020 00:28

Tgt Ion: 50 Resp: 27833

Ion Ratio Lower Upper

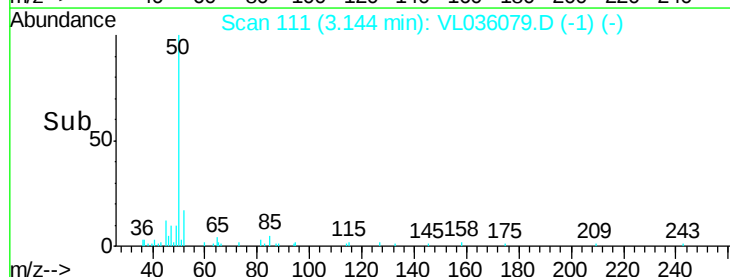
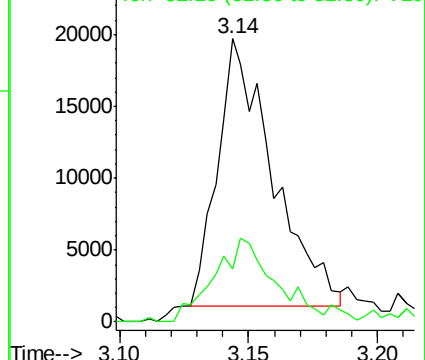
50 100

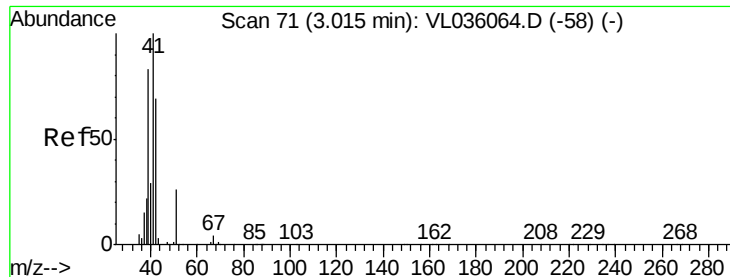
52 15.8 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.440 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampled :

IA-1B

Tot Ion: 41 Resp: 29466

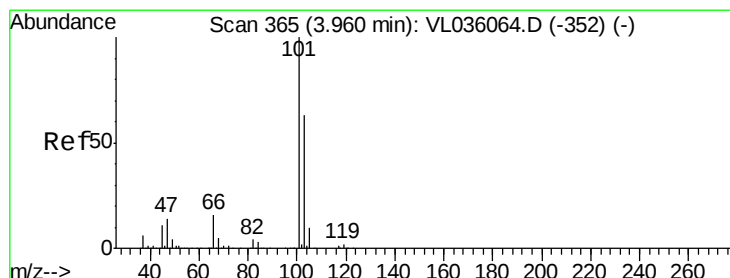
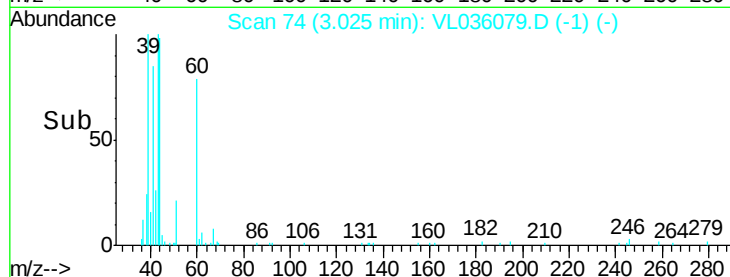
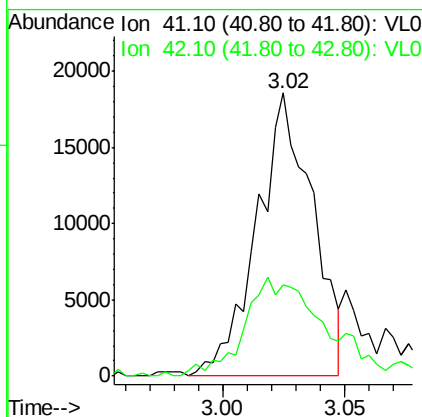
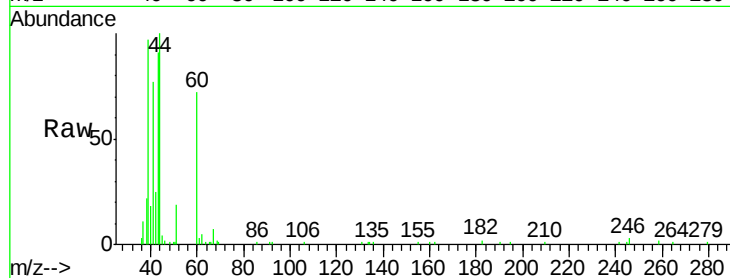
Ion Ratio Lower Upper

41 100

42 52.3 57.0 85.6#

Manual Integrations
APPROVED

MMDadoda
12/11/2020 5:45:16 PM



#11

Trichlorofluoromethane

Concen: 0.262 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL036079.D

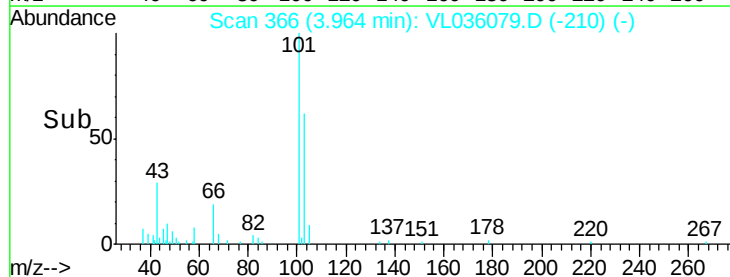
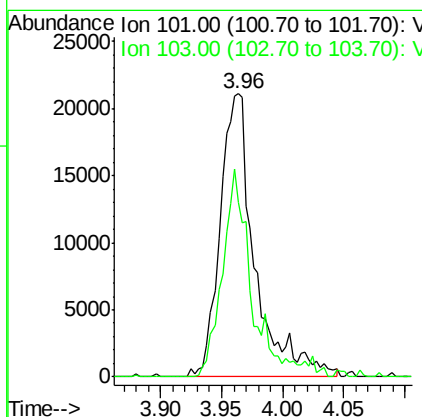
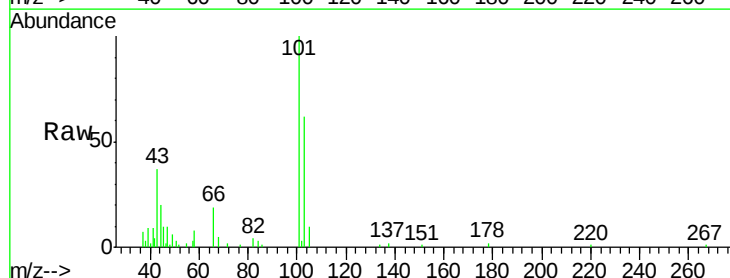
Acq: 8 Dec 2020 00:28

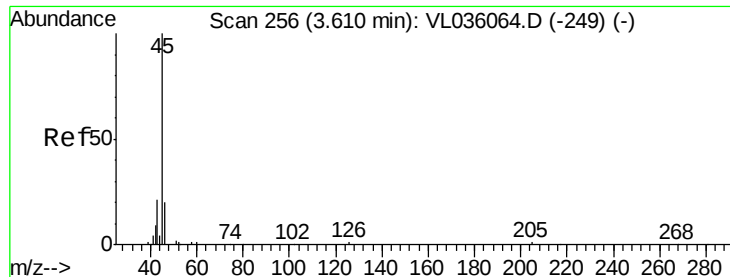
Tgt Ion:101 Resp: 42072

Ion Ratio Lower Upper

101 100

103 61.8 50.3 75.5





#13

Ethanol

Concen: 48.147 ppbv m

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampled :

IA-1B

Tot Ion: 45 Resp: 444178

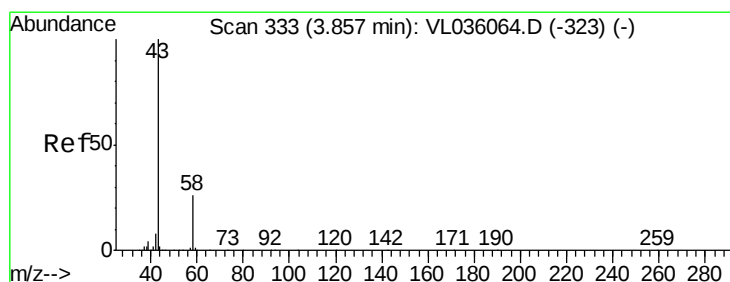
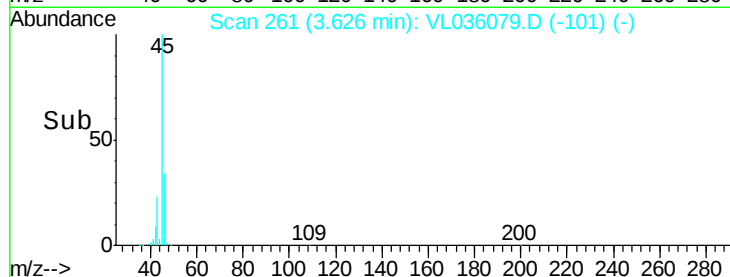
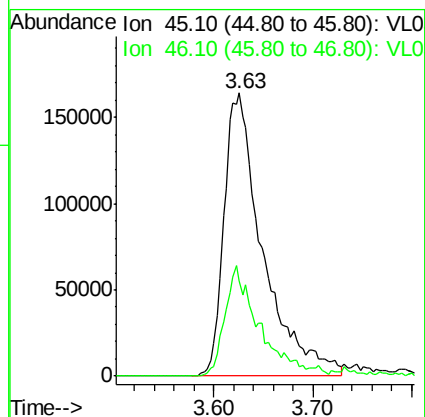
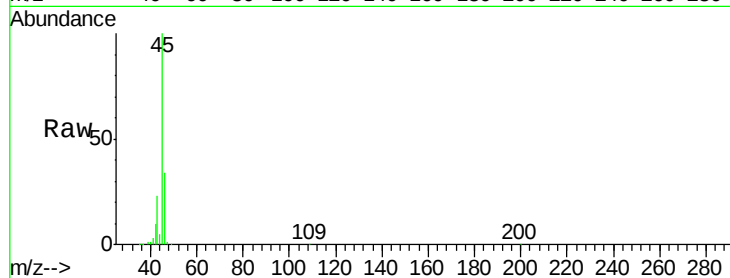
Ion Ratio Lower Upper

45 100

46 35.3 19.0 75.8

Manual Integrations
APPROVED

MMDadoda
12/11/2020 5:45:16 PM



#15

Acetone

Concen: 4.614 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL036079.D

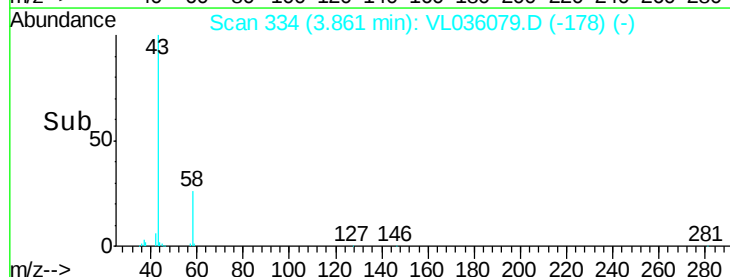
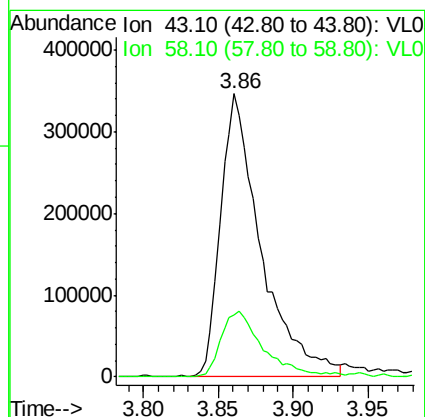
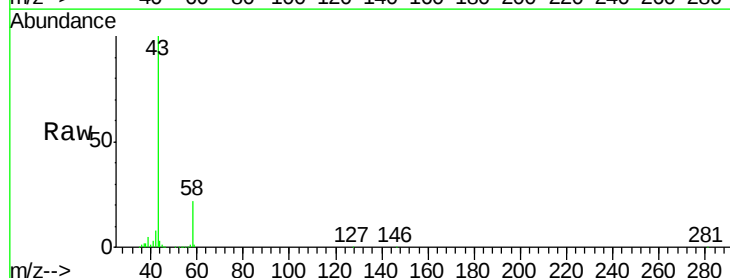
Acq: 8 Dec 2020 00:28

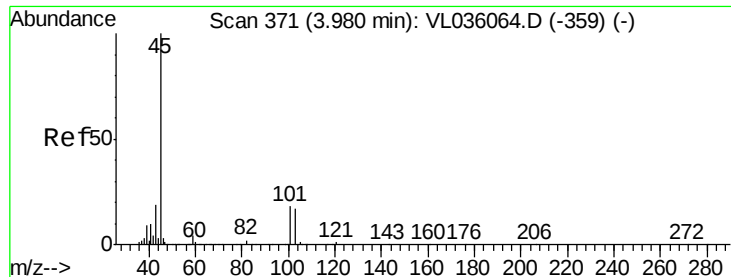
Tgt Ion: 43 Resp: 649335

Ion Ratio Lower Upper

43 100

58 25.6 20.9 31.3





#19

Isopropyl Alcohol

Concen: 0.756 ppbv m

RT: 3.99 min Scan# 375

Delta R.T. 0.01 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Tot Ion: 45 Resp: 65011

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0

Instrument :

MSVOA_L

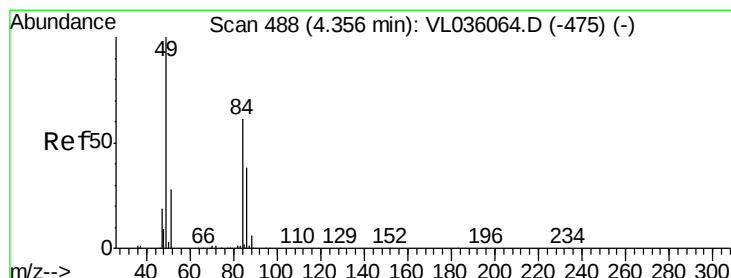
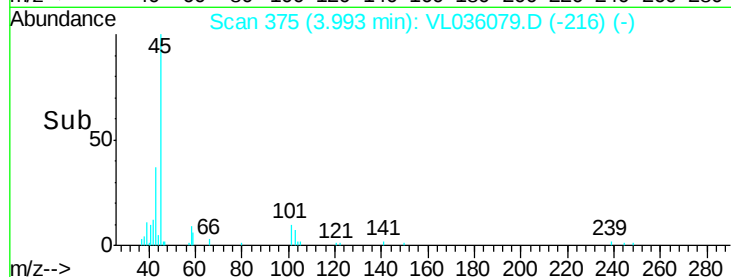
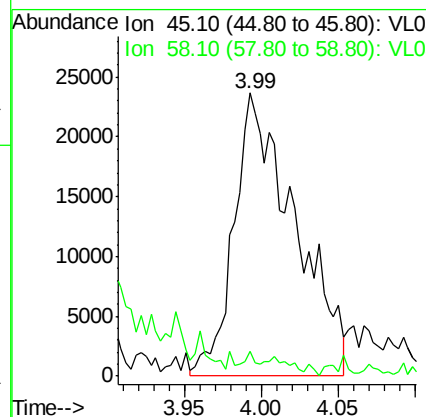
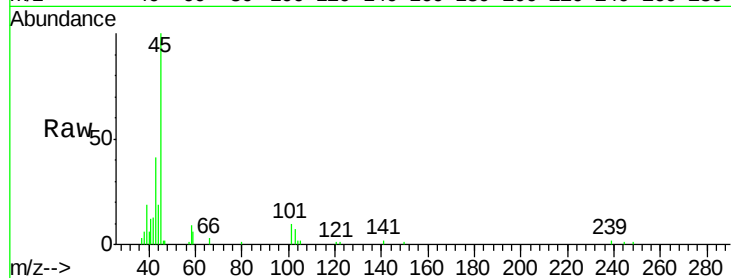
ClientSampleId :

IA-1B

Manual Integrations
APPROVED

MMDadoda

12/11/2020 5:45:16 PM



#20

Methylene Chloride

Concen: 40.876 ppbv

RT: 4.36 min Scan# 488

Delta R.T. -0.00 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Tgt Ion: 84 Resp: 2357124

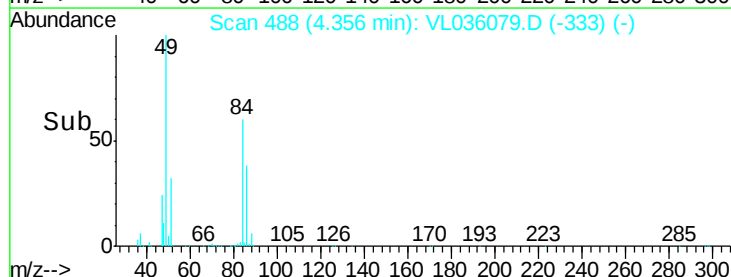
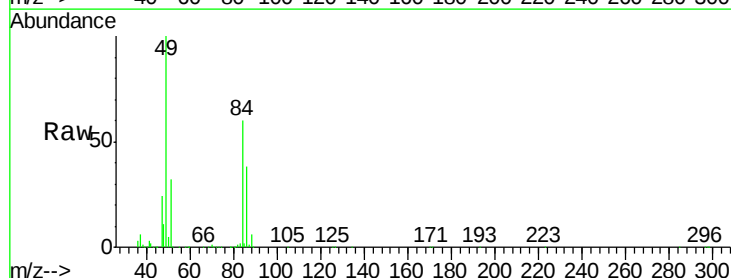
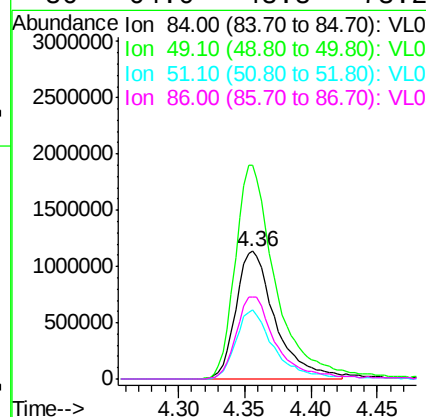
Ion Ratio Lower Upper

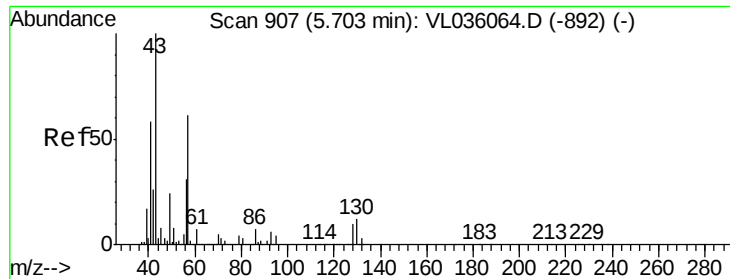
84 100

49 166.7 133.0 199.4

51 53.6 38.9 58.3

86 64.0 48.8 73.2





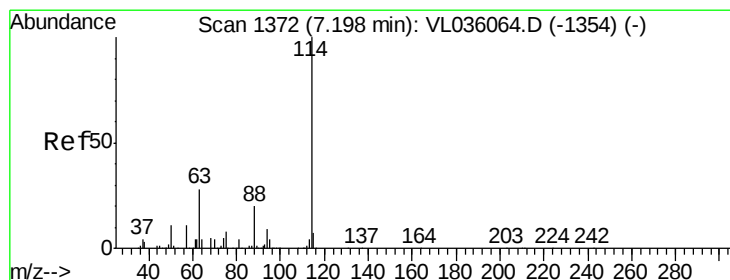
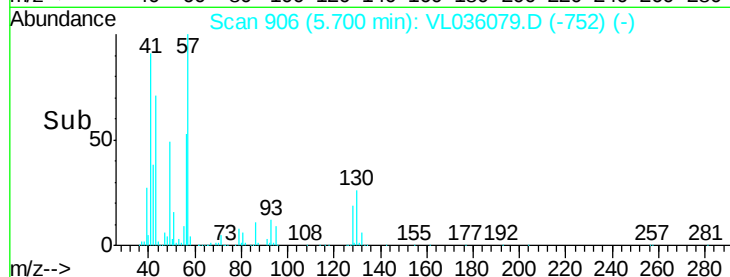
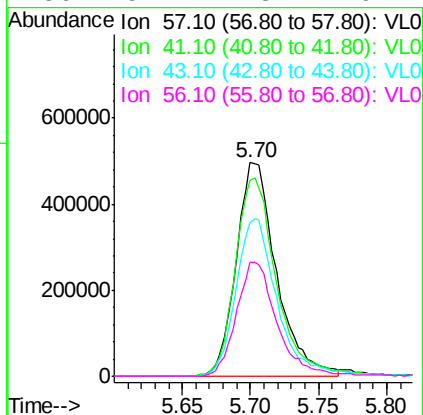
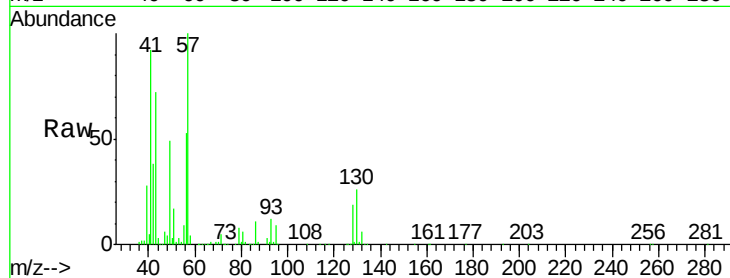
#26
Hexane
Concen: 8.058 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Instrument :
MSVOA_L
ClientSampled :
IA-1B

Tot Ion	Ratio	Lower	Upper
57	100		
41	96.0	82.9	124.3
43	76.0	199.9	299.9#
56	54.4	43.1	64.7

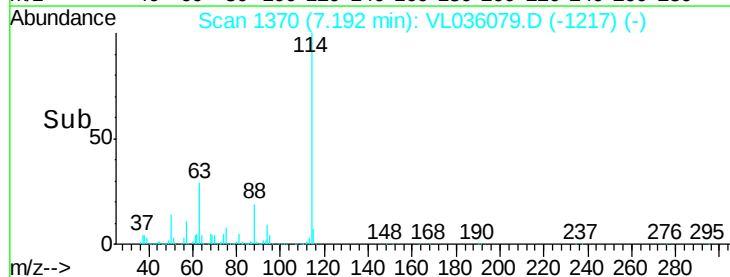
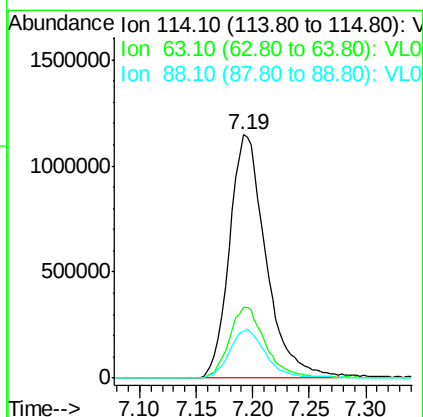
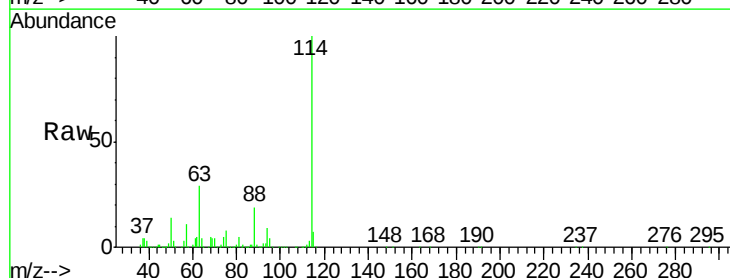
Manual Integrations
APPROVED

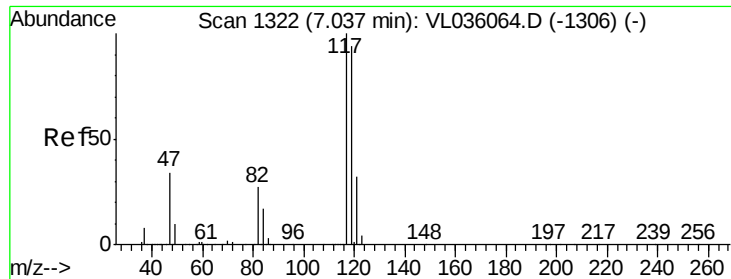
MMDadoda
12/11/2020 5:45:16 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.3	23.6	35.4
88	20.3	15.8	23.6





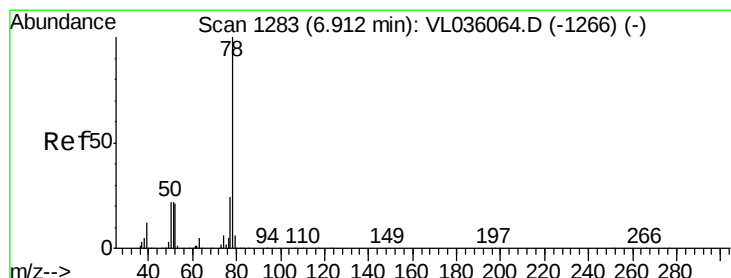
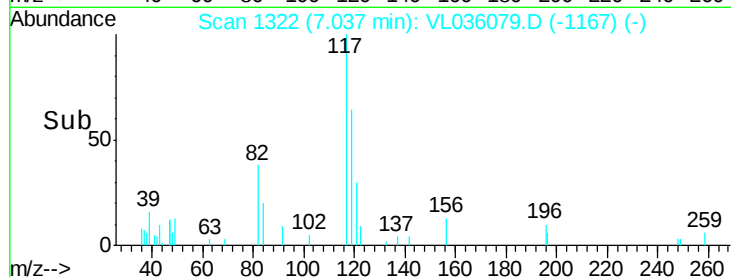
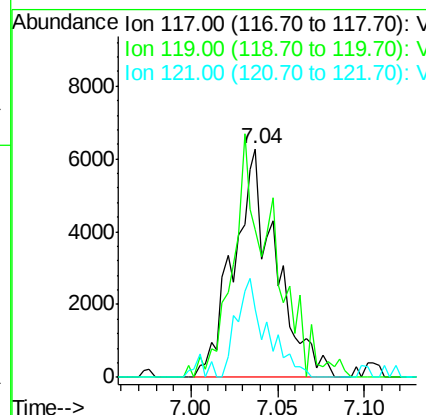
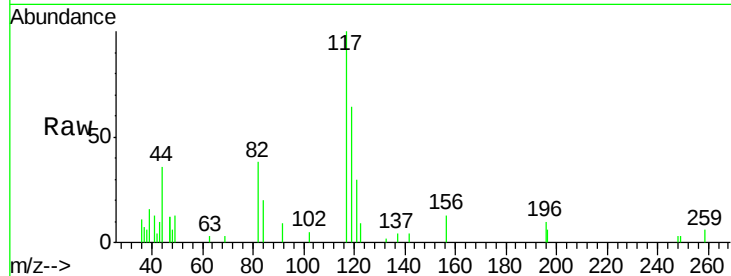
#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 7.04 min Scan# 1322
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Instrument :
MSVOA_L
ClientSampled :
IA-1B

Tot Ion	Ratio	Lower	Upper
117	100		
119	64.5	75.1	112.7#
121	30.1	25.6	38.4

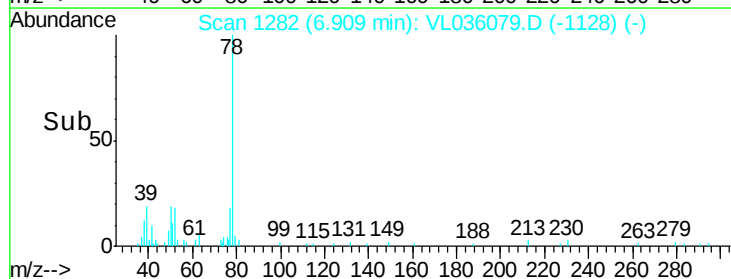
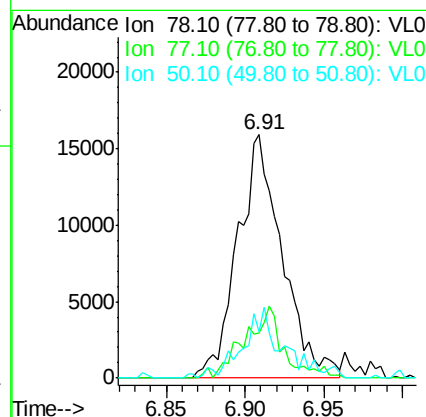
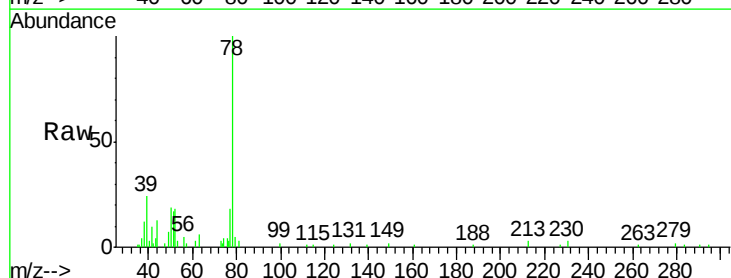
Manual Integrations
APPROVED

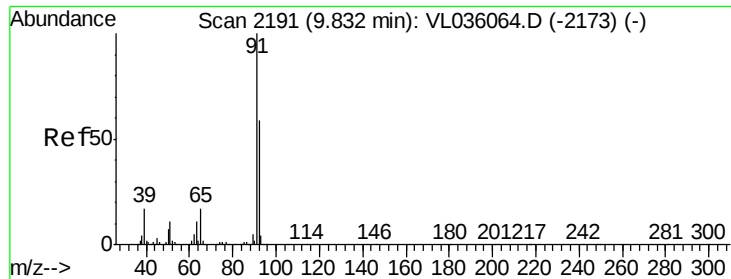
MMDadoda
12/11/2020 5:45:16 PM



#36
Benzene
Concen: 0.143 ppbv m
RT: 6.91 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.4	19.4	29.2#
50	19.3	17.8	26.8





#53

Toluene

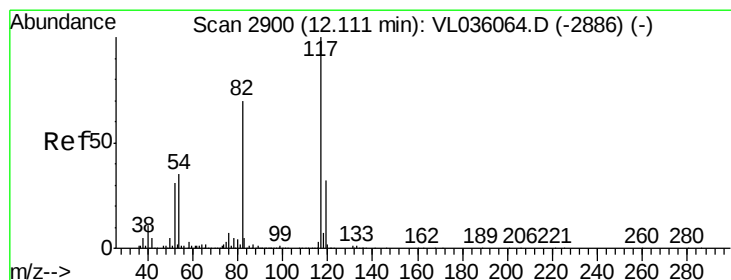
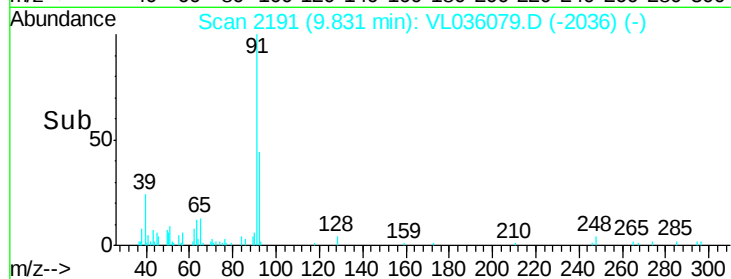
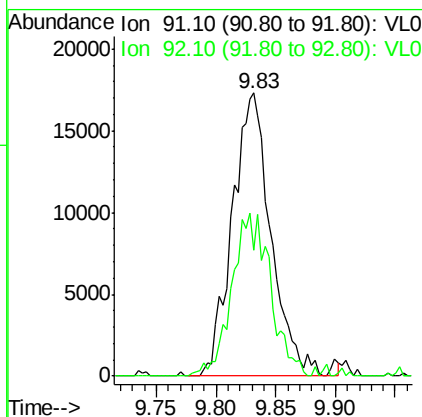
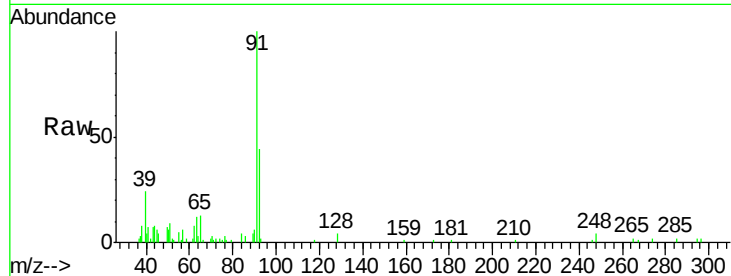
Concen: 0.160 ppbv m
RT: 9.83 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Instrument :
MSVOA_L
ClientSampled :
IA-1B

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	57.8	48.2	72.2	

Manual Integrations
APPROVED

MMDadoda
12/11/2020 5:45:16 PM

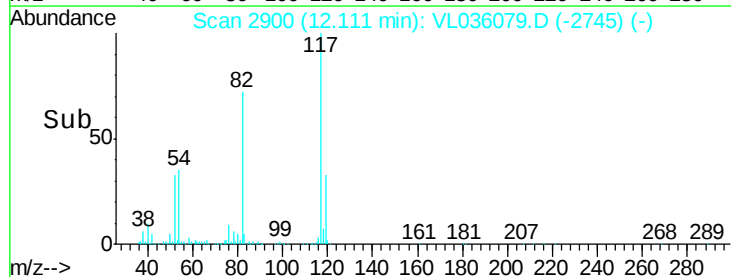
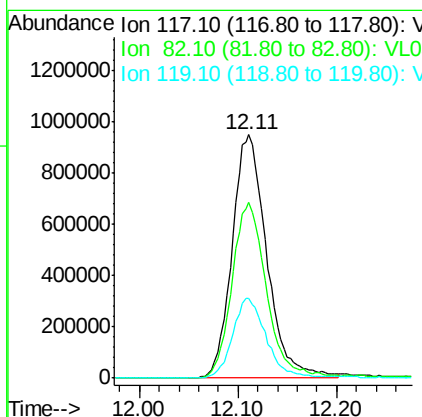
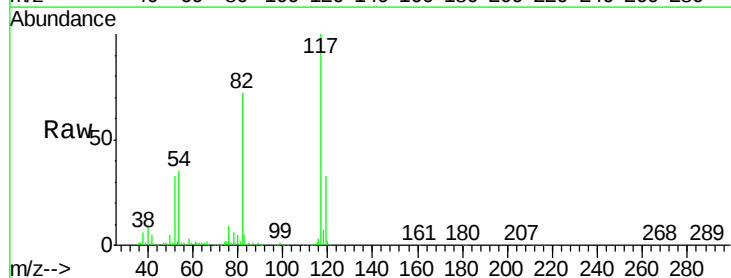


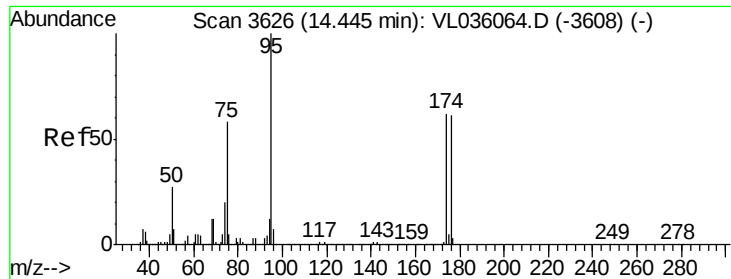
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
82	73.9	0.0	0.0#	
119	32.5	0.0	0.0#	





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.152 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.00 min
 Lab File: VL036079.D
 Acq: 8 Dec 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1B

Tot Ion	Ratio	Lower	Upper
95	100		
174	62.2	50.7	76.1
175	4.7	4.0	6.0

Manual Integrations
 APPROVED

MMDadoda
 12/11/2020 5:45:16 PM

