

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035259.D
 Acq On : 29 Jul 2020 23:33
 Operator : SY/AP
 Sample : L3463-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:11:31 PM

Quant Time: Jul 30 12:06:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1100204	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2646504	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2509536	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2032175	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	41448	0.315	ppbv	99
3) Chlorodifluoromethane	2.95	51	49078m	0.403	ppbv	
4) Chloromethane	3.10	50	43419	0.634	ppbv	92
9) Propene	2.98	41	23420	0.552	ppbv	91
11) Trichlorofluoromethane	3.92	101	48835	0.276	ppbv #	82
13) Ethanol	3.57	45	1496873	86.634	ppbv	95
15) Acetone	3.82	43	1073448	7.315	ppbv	100
19) Isopropyl Alcohol	3.94	45	327419	3.383	ppbv #	95
20) Methylene Chloride	4.32	84	388339	5.813	ppbv	97
26) Hexane	5.67	57	149939	1.450	ppbv #	43
29) Chloroform	5.74	83	22930m	0.132	ppbv	
34) 2-Butanone	5.23	43	70006	0.520	ppbv	98
35) Carbon Tetrachloride	7.02	117	14014m	0.079	ppbv	
36) Benzene	6.90	78	23526m	0.128	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	31987m	0.099	ppbv	
52) Tetrachloroethene	11.25	164	1147480	16.351	ppbv	96
53) Toluene	9.83	91	81661m	0.418	ppbv	

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

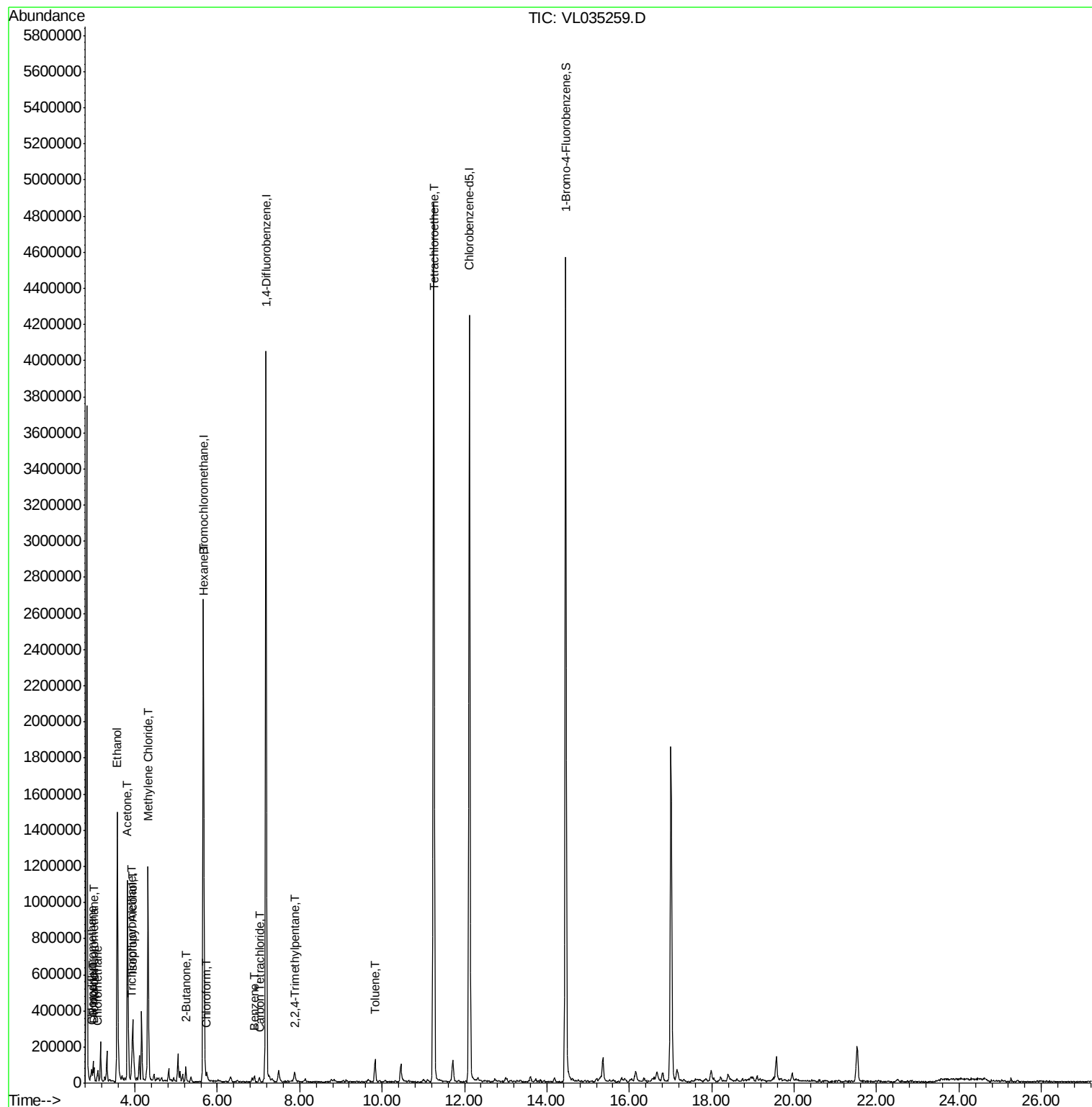
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072920\
Data File : VL035259.D
Acq On : 29 Jul 2020 23:33
Operator : SY/AP
Sample : L3463-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

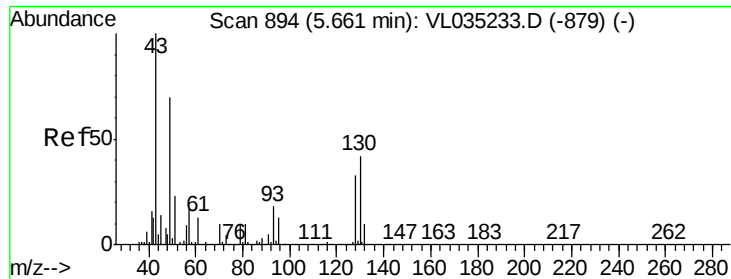
Instrument :
MSVOA_L
ClientSampleId :
IA3

Manual Integrations
APPROVED

MMDadoda
7/30/2020 6:11:31 PM

Quant Time: Jul 30 12:06:31 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 49 Resp: 1100204

Ion Ratio Lower Upper

49 100

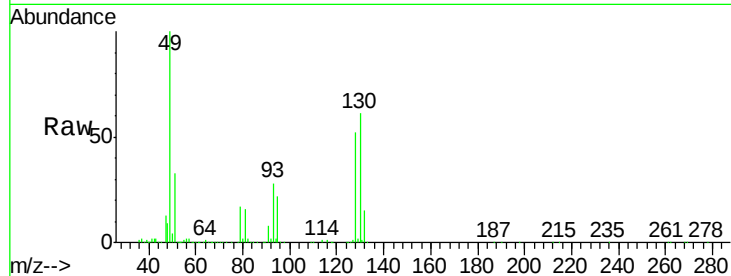
128 49.8 24.0 72.0

130 63.3 30.7 92.1

Manual Integrations
APPROVED

MMDadoda

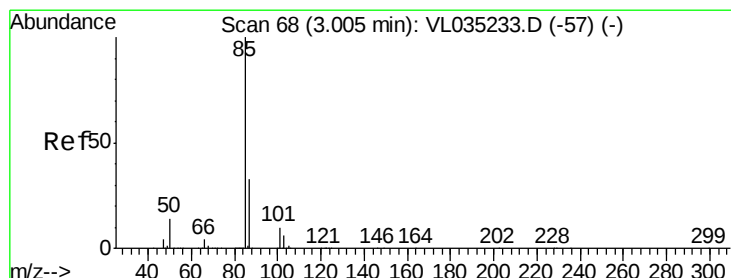
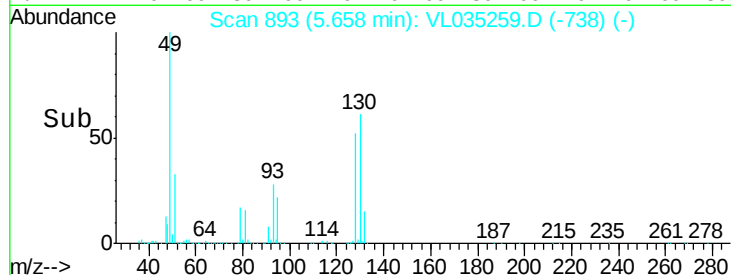
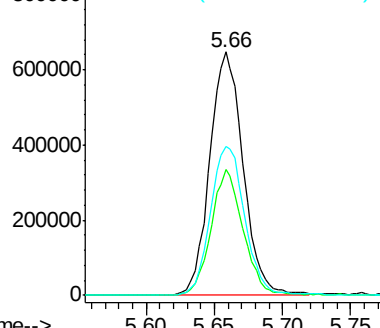
7/30/2020 6:11:31 PM



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: 0.315 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035259.D

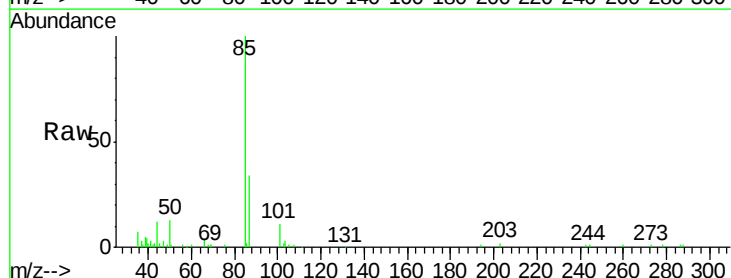
Acq: 29 Jul 2020 23:33

Tgt Ion: 85 Resp: 41448

Ion Ratio Lower Upper

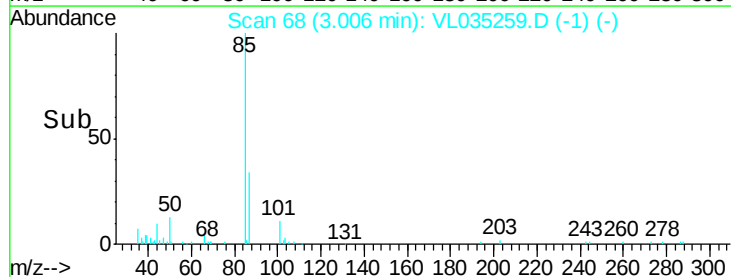
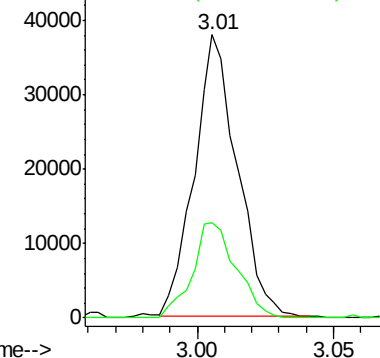
85 100

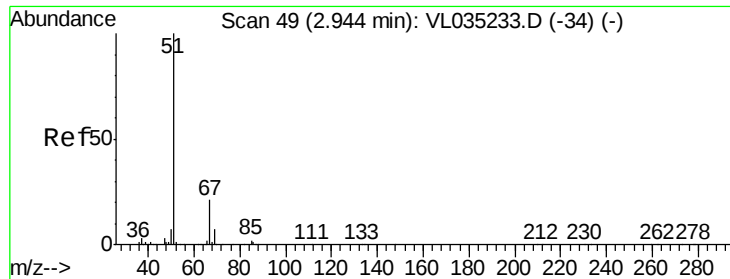
87 33.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

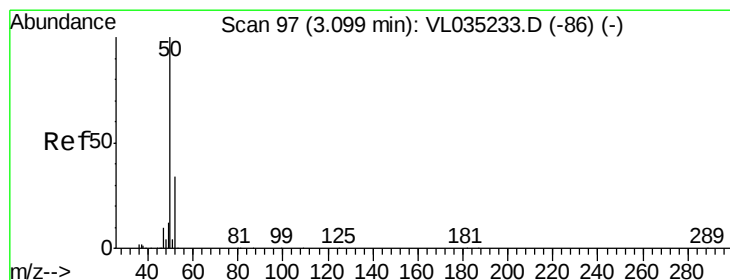
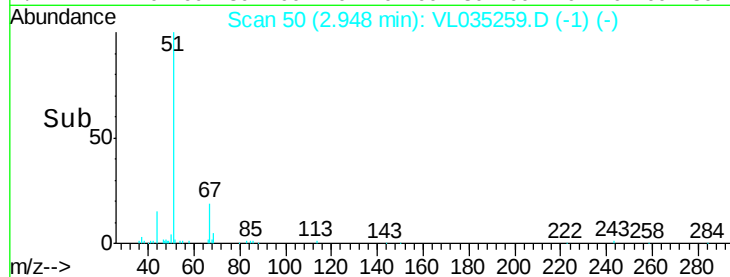
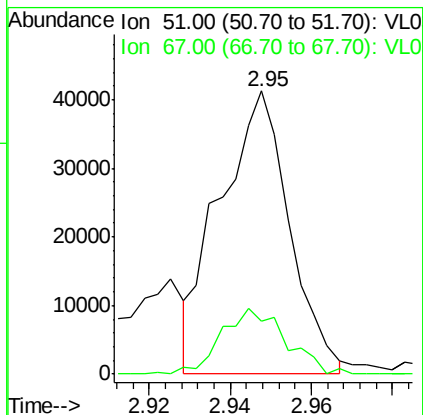
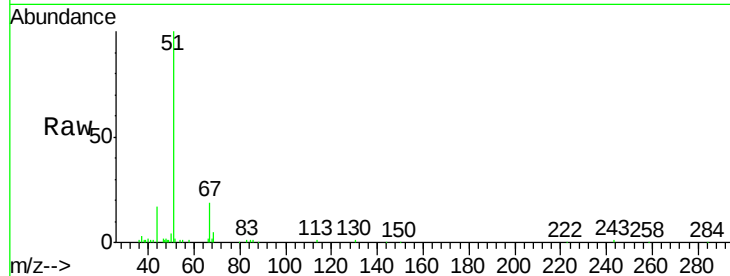
Chlorodifluoromethane
Concen: 0.403 ppbv
RT: 2.95 min Scan# 50
Delta R.T. 0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tot Ion	51	Resp	49078
Ion Ratio	100	Lower	Upper
51	100		
67	21.6	16.6	25.0

Manual Integrations
APPROVED

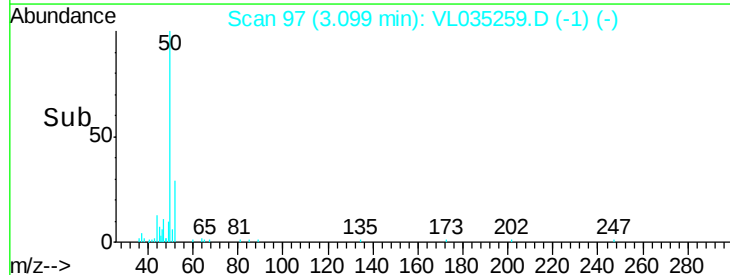
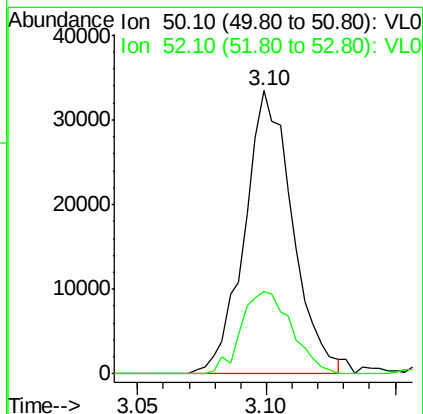
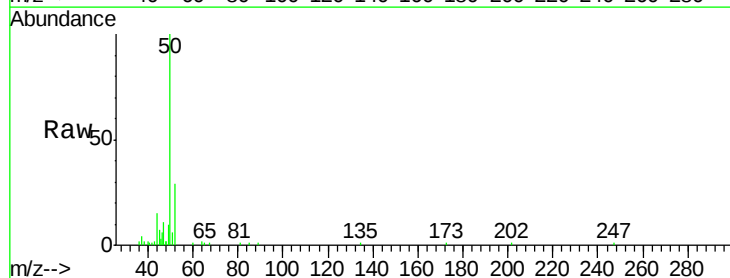
MMDadoda
7/30/2020 6:11:31 PM

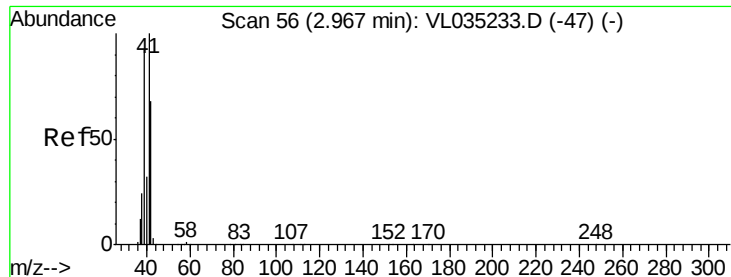


#4

Chloromethane
Concen: 0.634 ppbv
RT: 3.10 min Scan# 97
Delta R.T. 0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Tgt Ion	50	Resp	43419
Ion Ratio	100	Lower	Upper
50	100		
52	29.2	27.1	40.7





#9

Propene

Concen: 0.552 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tot Ion: 41 Resp: 23420

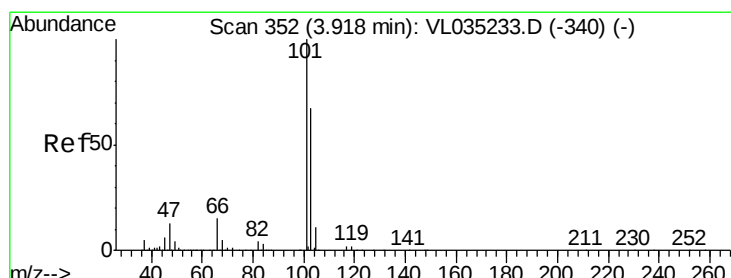
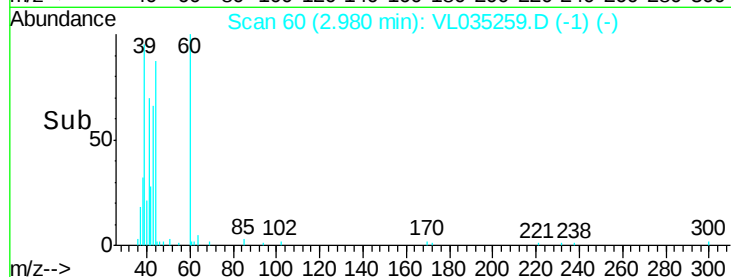
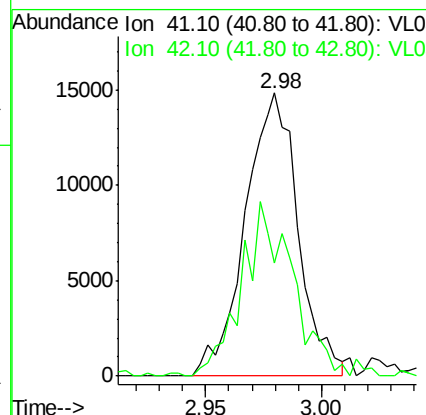
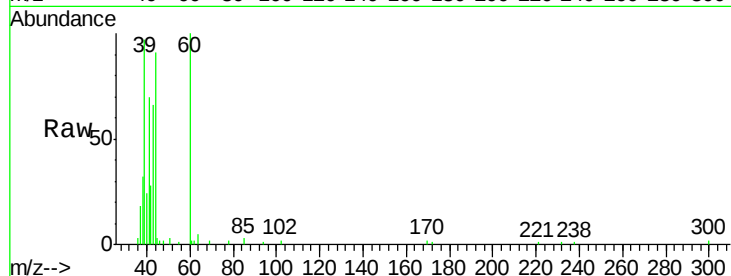
Ion Ratio Lower Upper

41 100

42 61.2 55.0 82.6

Manual Integrations
APPROVED

MMDadoda
7/30/2020 6:11:31 PM



#11

Trichlorofluoromethane

Concen: 0.276 ppbv

RT: 3.92 min Scan# 353

Delta R.T. 0.00 min

Lab File: VL035259.D

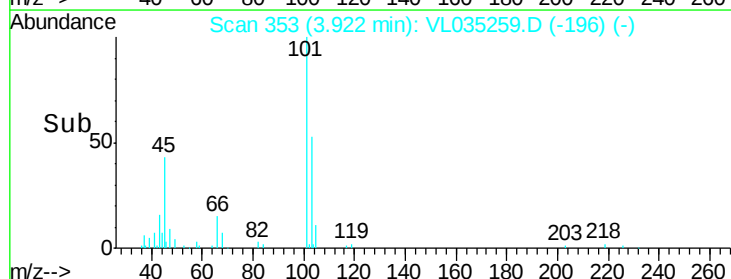
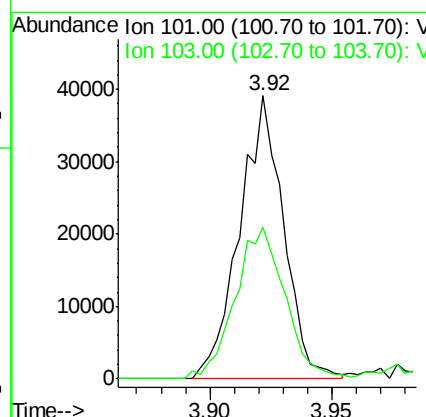
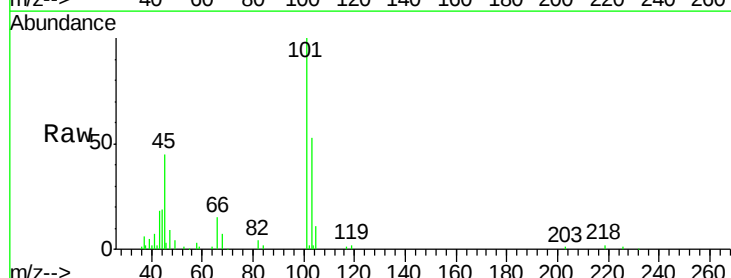
Acq: 29 Jul 2020 23:33

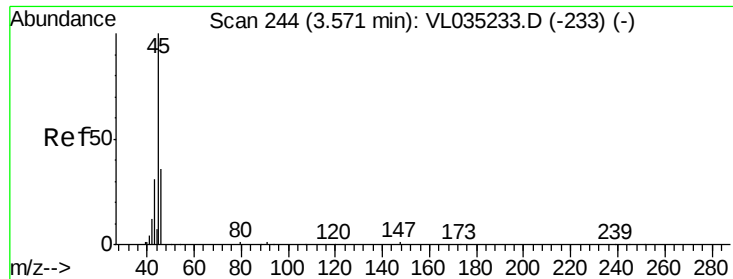
Tgt Ion: 101 Resp: 48835

Ion Ratio Lower Upper

101 100

103 52.1 53.4 80.0#





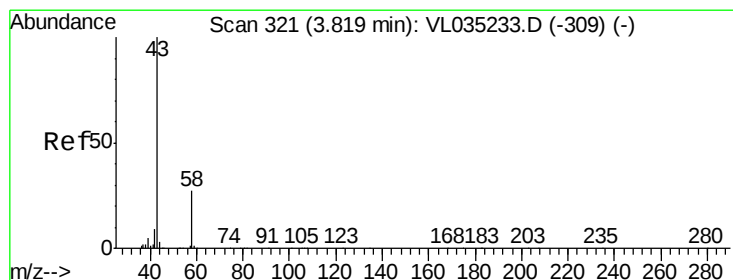
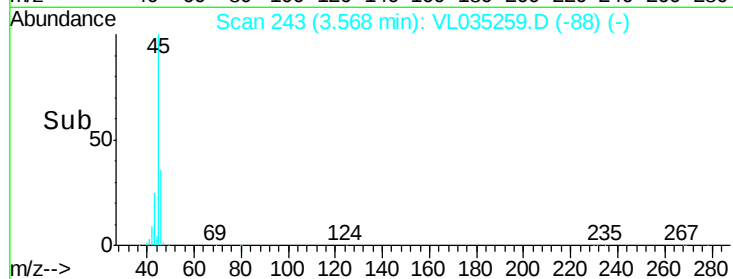
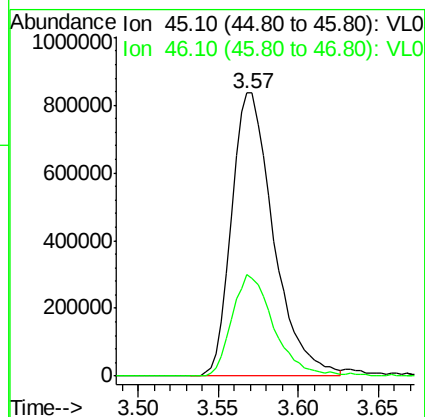
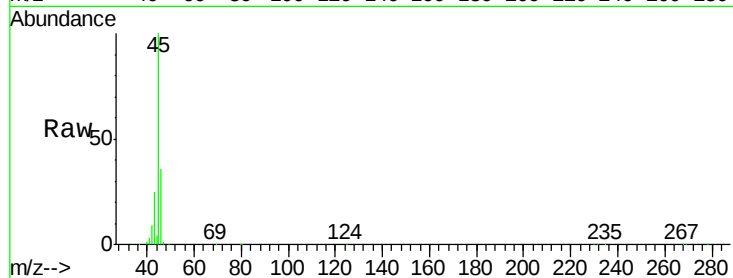
#13
Ethanol
Concen: 86.634 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion: 45 Resp: 1496873
Ion Ratio Lower Upper
45 100
46 36.5 15.8 63.4

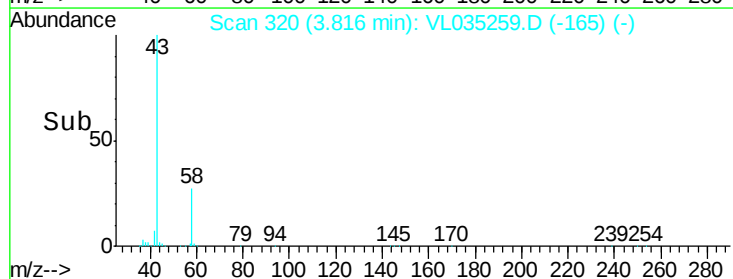
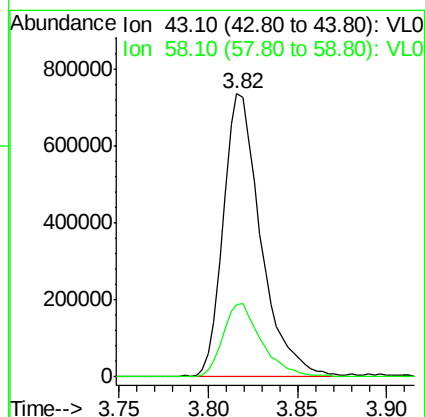
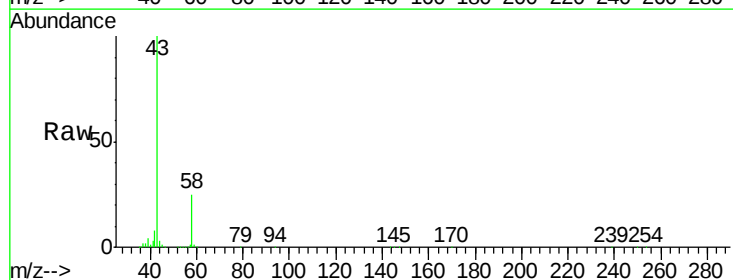
Manual Integrations
APPROVED

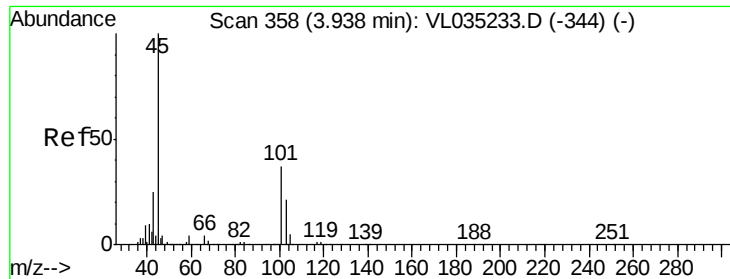
MMDadoda
7/30/2020 6:11:31 PM



#15
Acetone
Concen: 7.315 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Tgt Ion: 43 Resp: 1073448
Ion Ratio Lower Upper
43 100
58 27.1 21.8 32.6





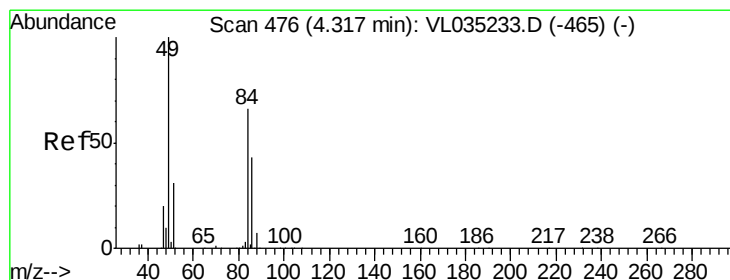
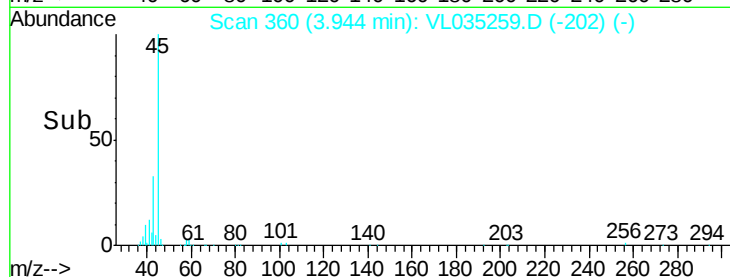
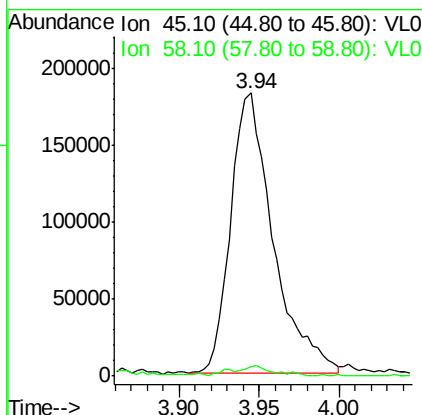
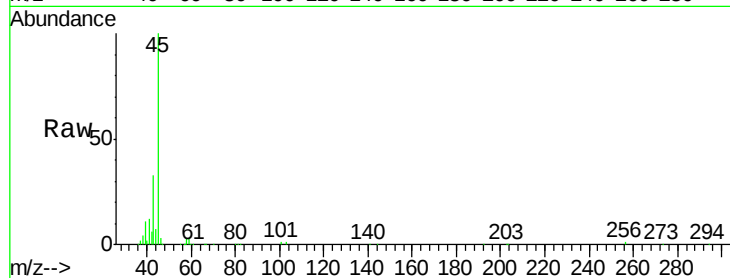
#19
Isopropyl Alcohol
Concen: 3.383 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tot Ion: 45 Resp: 327419
Ion Ratio Lower Upper
45 100
58 4.0 1.9 2.9#

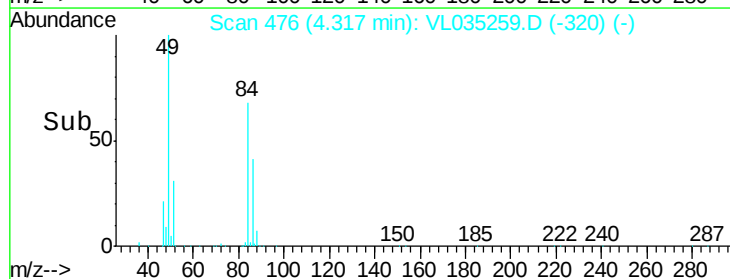
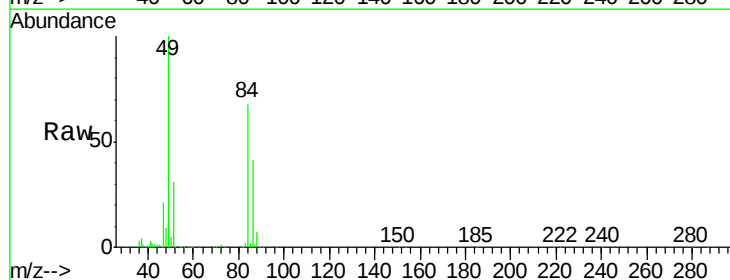
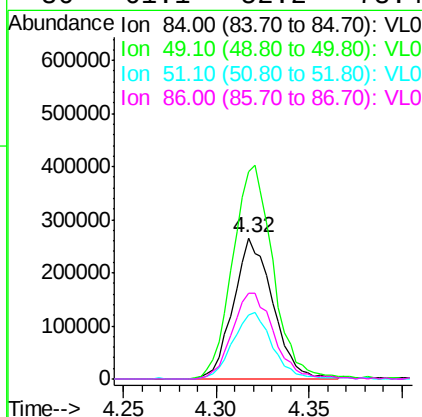
Manual Integrations
APPROVED

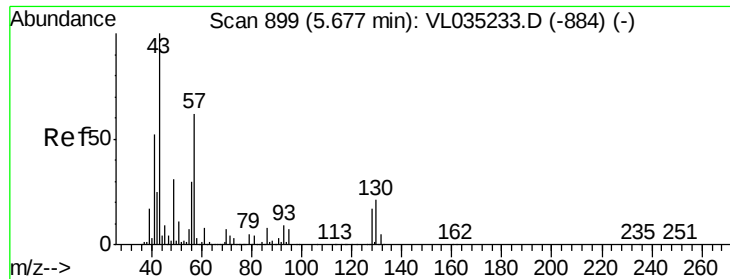
MMDadoda
7/30/2020 6:11:31 PM



#20
Methylene Chloride
Concen: 5.813 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Tgt Ion: 84 Resp: 388339
Ion Ratio Lower Upper
84 100
49 147.7 121.0 181.4
51 45.5 37.7 56.5
86 61.1 52.2 78.4





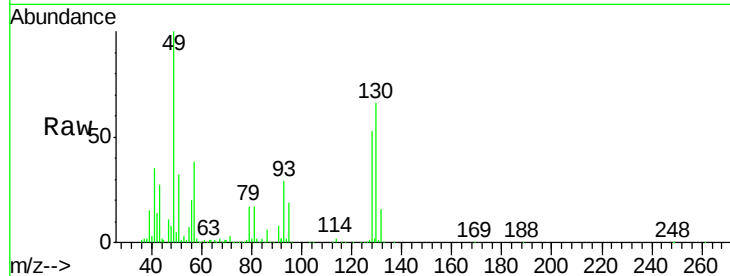
#26
Hexane
Concen: 1.450 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion	Ratio	Lower	Upper
57	100		
41	100.6	73.9	110.9
43	77.0	177.6	266.4#
56	59.2	43.0	64.4

Manual Integrations
APPROVED

MMDadoda
7/30/2020 6:11:31 PM



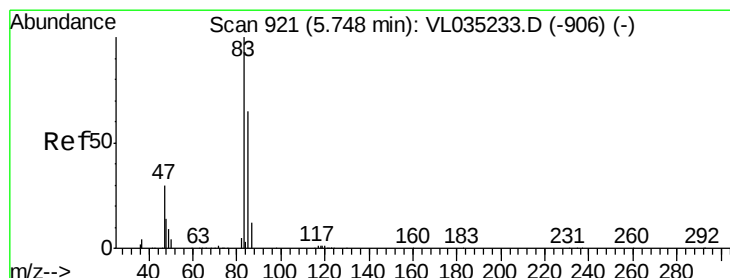
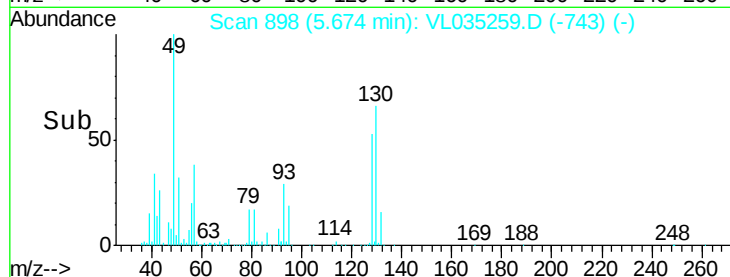
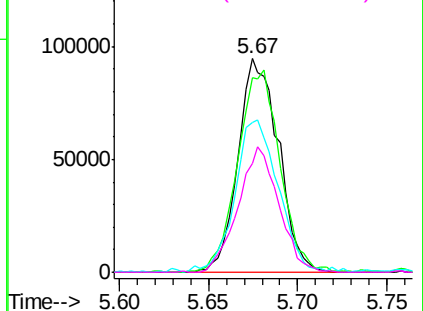
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

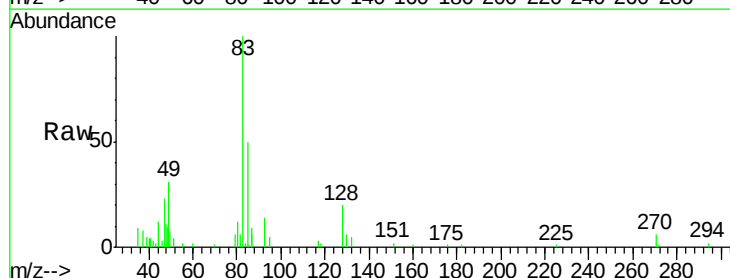
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.132 ppbv m
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

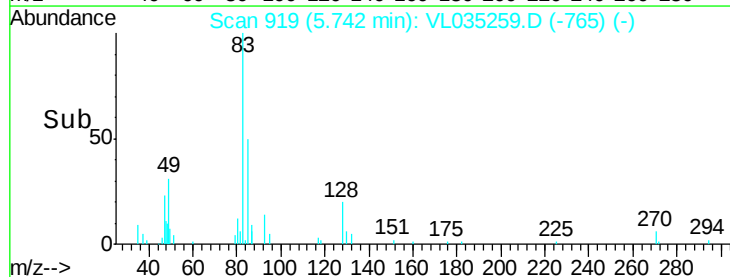
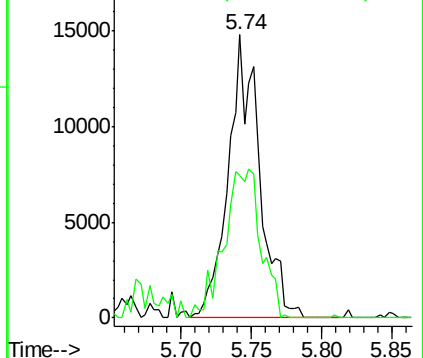
Tgt Ion	Ratio	Lower	Upper
83	100		
85	50.5	51.7	77.5#

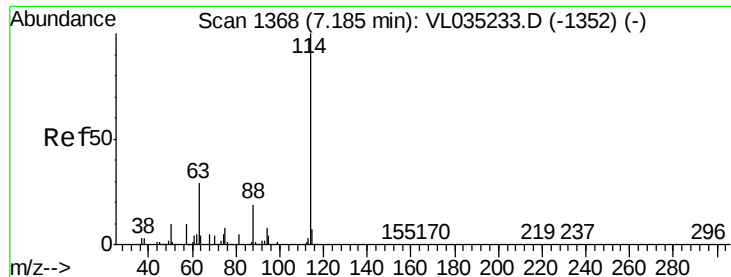


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





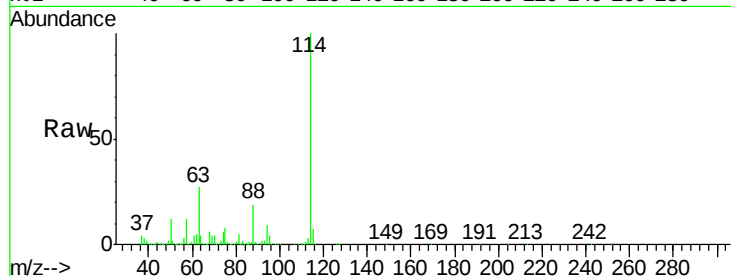
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL035259.D
 Acq: 29 Jul 2020 23:33

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

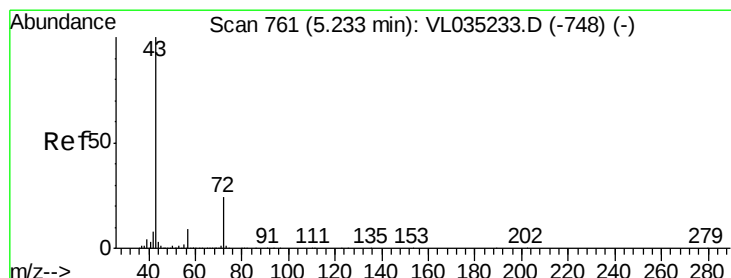
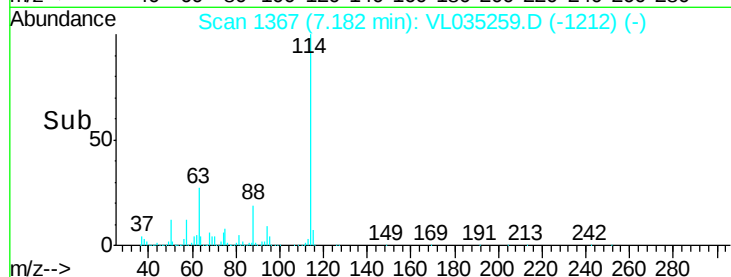
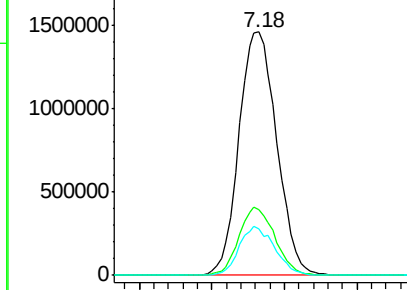
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.9	22.2	33.2
88	19.1	15.4	23.0

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:11:31 PM

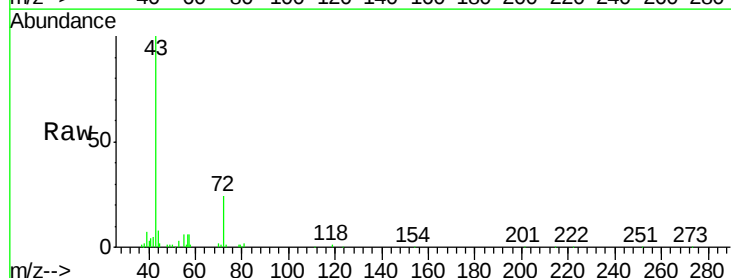


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

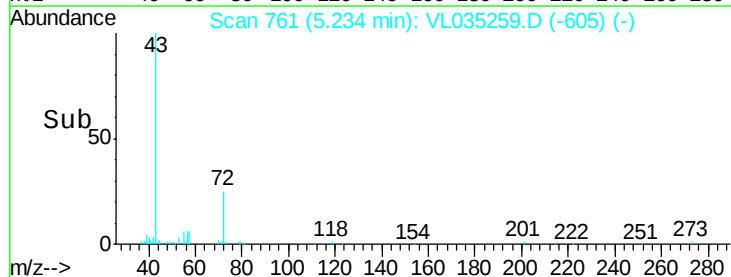
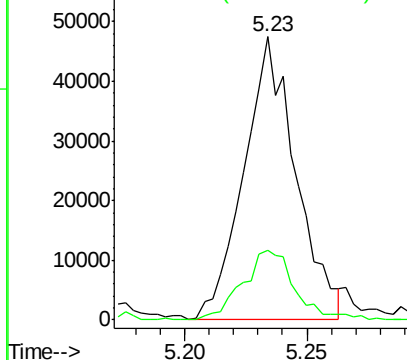


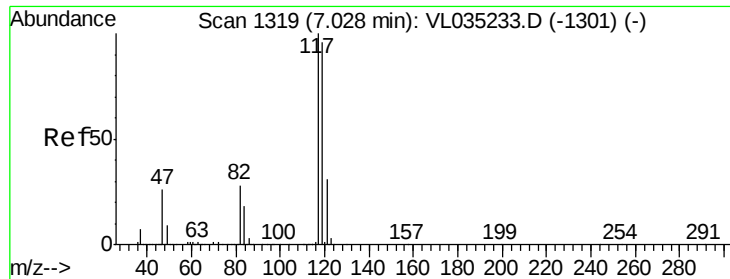
#34
 2-Butanone
 Concen: 0.520 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL035259.D
 Acq: 29 Jul 2020 23:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.9	19.2	28.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





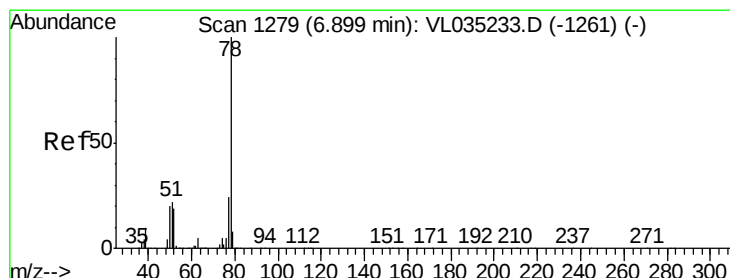
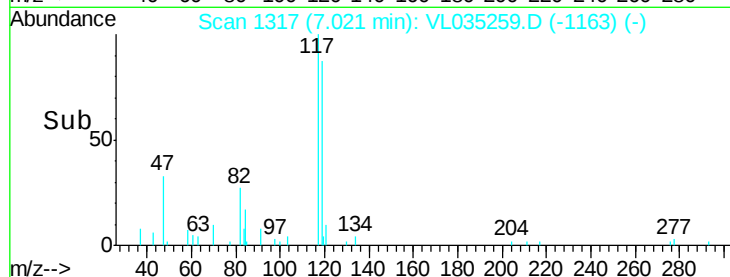
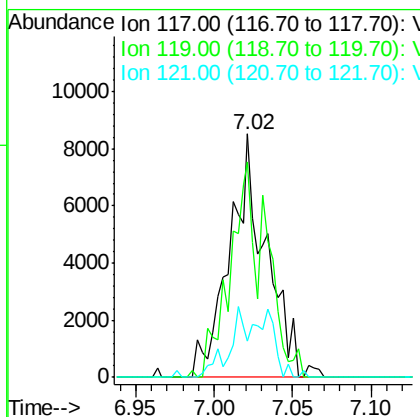
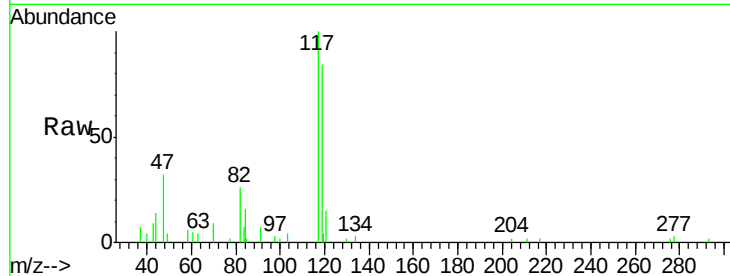
#35
Carbon Tetrachloride
Concen: 0.079 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tot Ion	Ratio	Lower	Upper
117	100		
119	84.3	76.8	115.2
121	14.8	24.5	36.7#

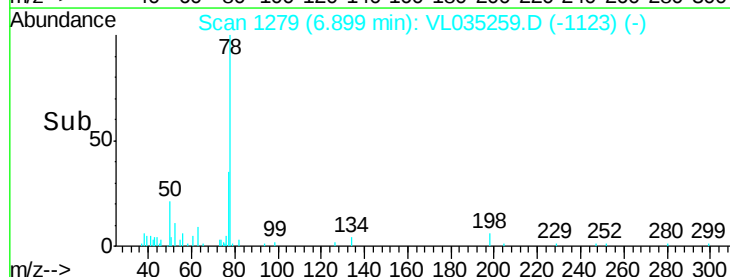
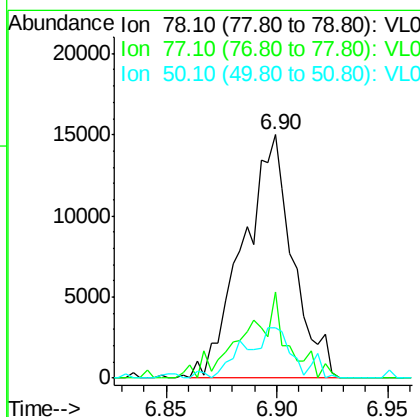
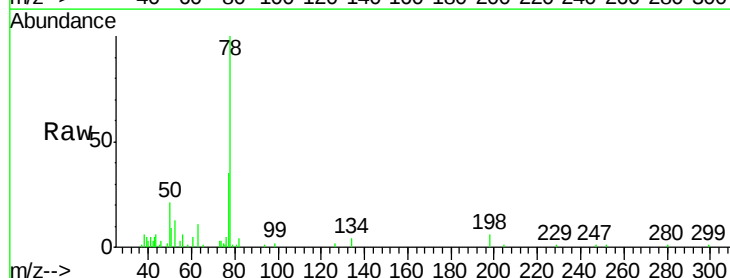
Manual Integrations
APPROVED

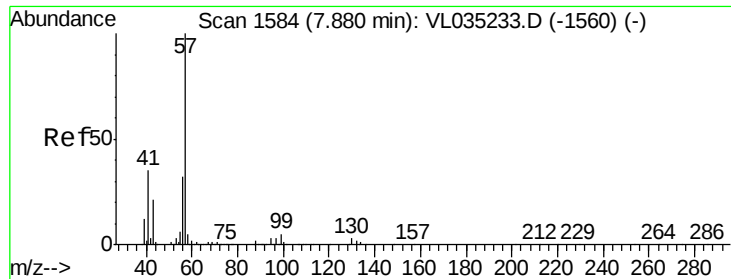
MMDadoda
7/30/2020 6:11:31 PM



#36
Benzene
Concen: 0.128 ppbv m
RT: 6.90 min Scan# 1279
Delta R.T. 0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	35.2	18.9	28.3#
50	20.6	16.1	24.1





#44

2,2,4-Trimethylpentane

Concen: 0.099 ppbv m

RT: 7.88 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

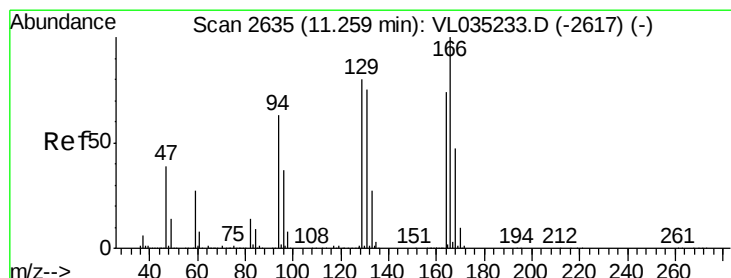
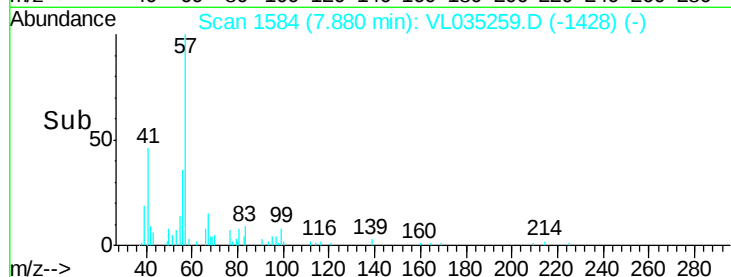
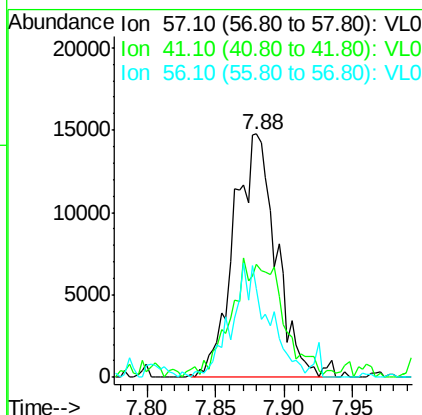
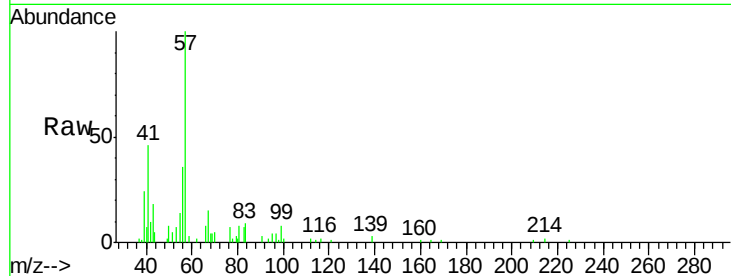
ClientSampleId :

IA3

Tot Ion:	57	Resp:	31987
Ion Ratio	Lower	Upper	
57	100		
41	0.0	27.0	40.4#
56	0.0	25.6	38.4#

Manual Integrations
APPROVED

MMDadoda
7/30/2020 6:11:31 PM



#52

Tetrachloroethene

Concen: 16.351 ppbv

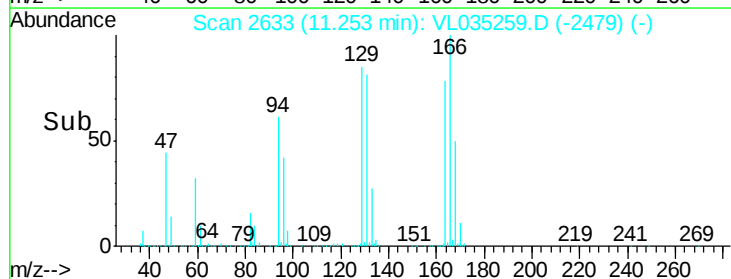
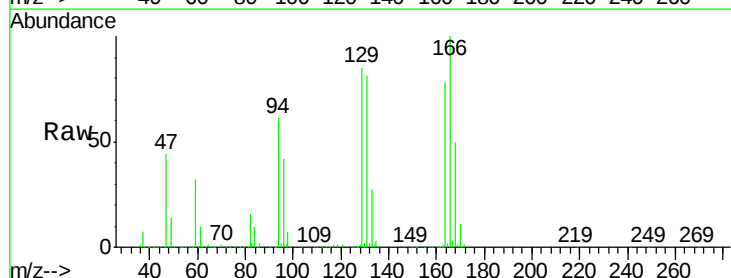
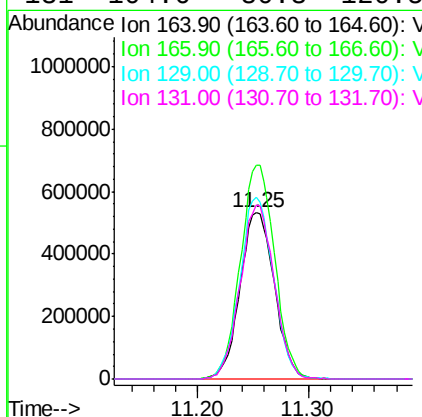
RT: 11.25 min Scan# 2633

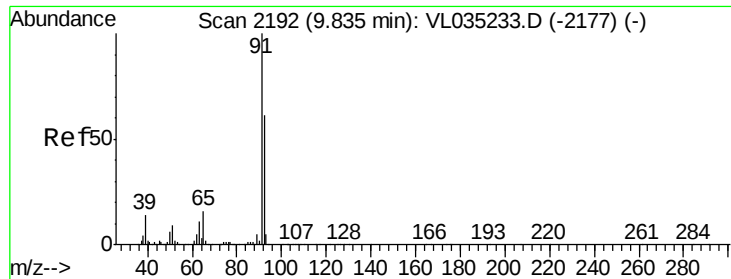
Delta R.T. -0.01 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Tgt Ion:	164	Resp:	1147480
Ion Ratio	Lower	Upper	
164	100		
166	128.4	107.5	161.3
129	109.4	86.0	129.0
131	104.6	80.3	120.5





#53

Toluene

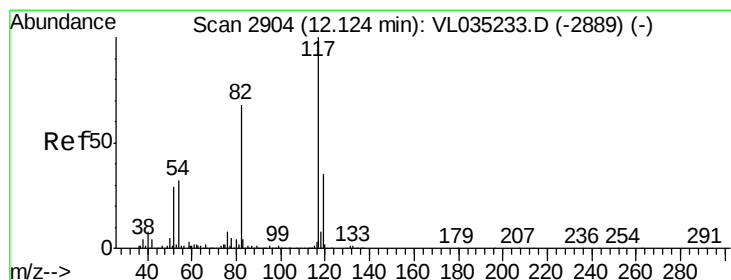
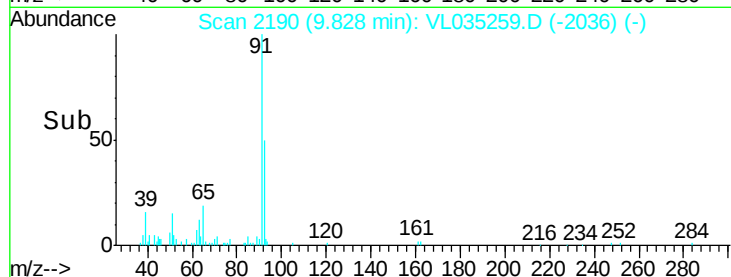
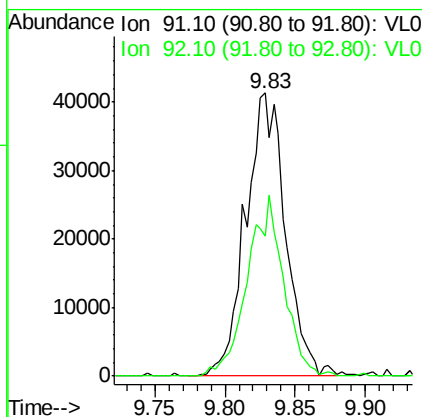
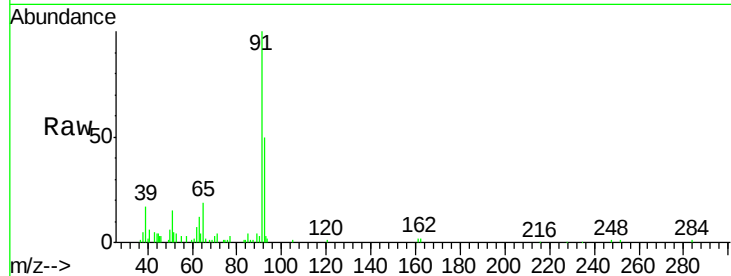
Concen: 0.418 ppbv m
RT: 9.83 min Scan# 2190
Delta R.T. -0.01 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	0.0	48.5	72.7#	

Manual Integrations
APPROVED

MMDadoda
7/30/2020 6:11:31 PM

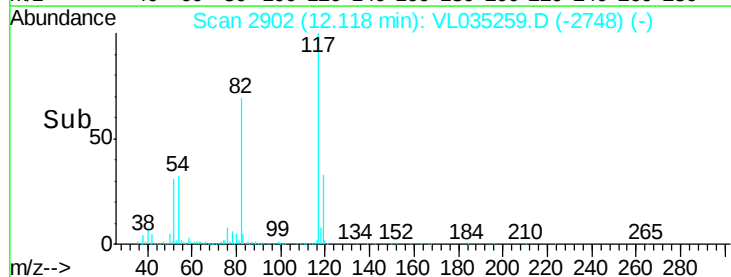
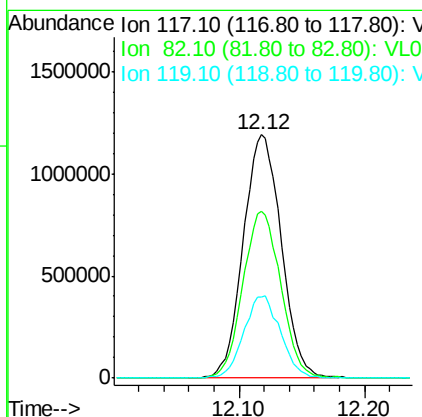
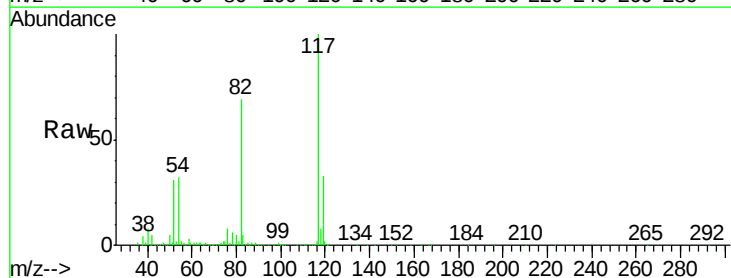


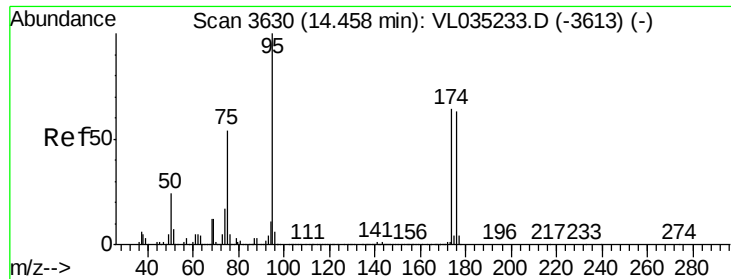
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.01 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
82	68.5	52.4	78.6	
119	32.9	24.6	36.8	





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.134 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. -0.00 min
 Lab File: VL035259.D
 Acq: 29 Jul 2020 23:33

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.6	52.7	79.1
175	4.6	3.9	5.9

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:11:31 PM

