

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035885.D
 Acq On : 6 Nov 2020 7:37
 Operator : SY/AP
 Sample : L4220-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

MMDadoda
 11/9/2020 10:48:27 AM

Quant Time: Nov 06 08:17:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1014424	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3760144	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.07	117	3361886	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2330942	9.76	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	55163	0.289	ppbv	99
3) Chlorodifluoromethane	2.97	51	52686	0.434	ppbv #	89
4) Chloromethane	3.12	50	33441m	0.567	ppbv	
9) Propene	3.00	41	124258	2.795	ppbv #	81
11) Trichlorofluoromethane	3.93	101	55045	0.230	ppbv	98
13) Ethanol	3.59	45	40073	4.154	ppbv	93
15) Acetone	3.83	43	2222033	20.489	ppbv	98
20) Methylene Chloride	4.32	84	597339	7.824	ppbv	99
26) Hexane	5.66	57	158225	1.343	ppbv #	44
27) Carbon Disulfide	4.53	76	64290	0.364	ppbv #	89
30) Cyclohexane	7.11	84	31585m	0.246	ppbv	
34) 2-Butanone	5.23	43	48925	0.401	ppbv	89

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

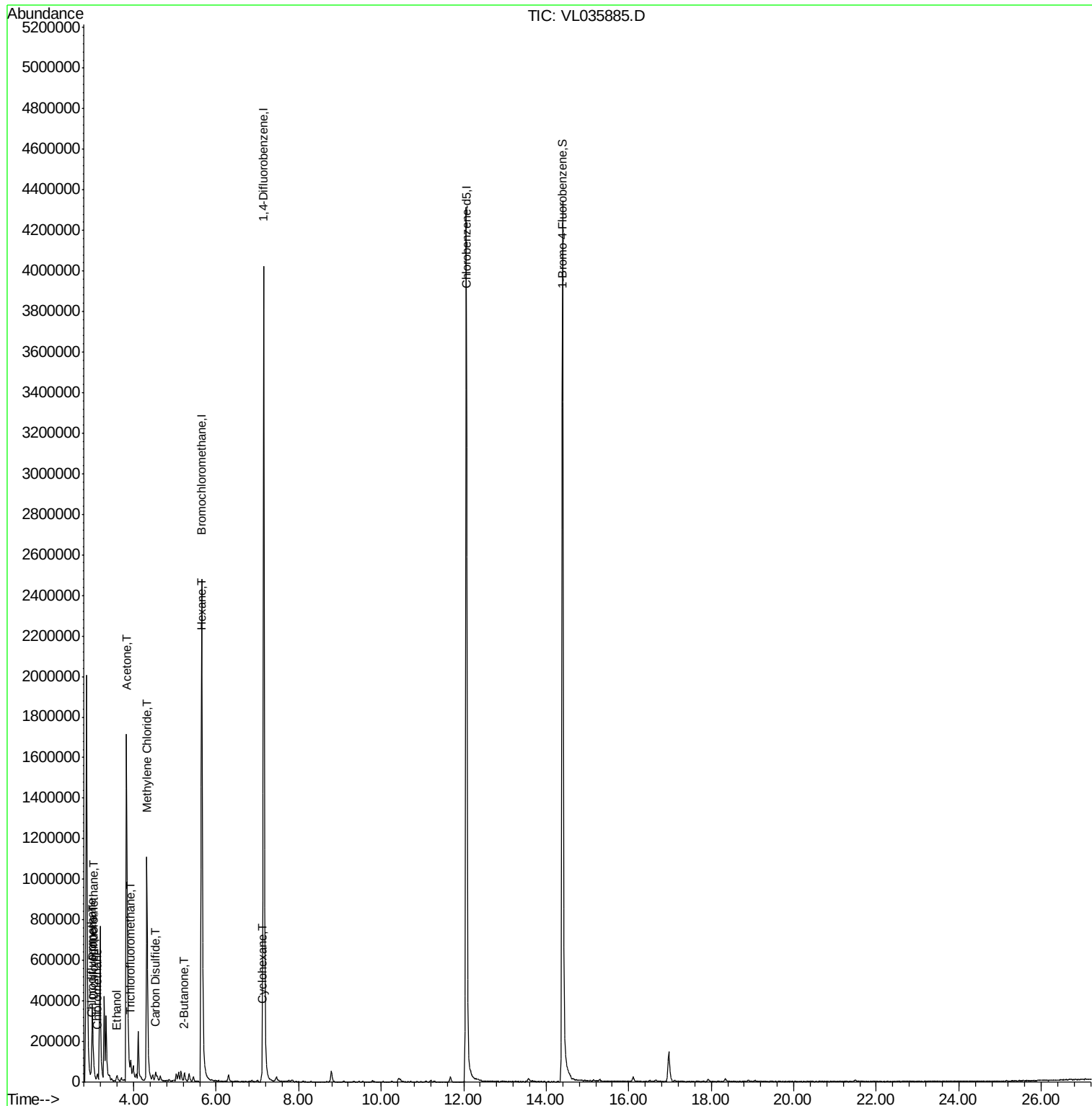
```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110520\  
Data File : VL035885.D  
Acq On    : 6 Nov 2020 7:37  
Operator  : SY/AP  
Sample    : L4220-06  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
```

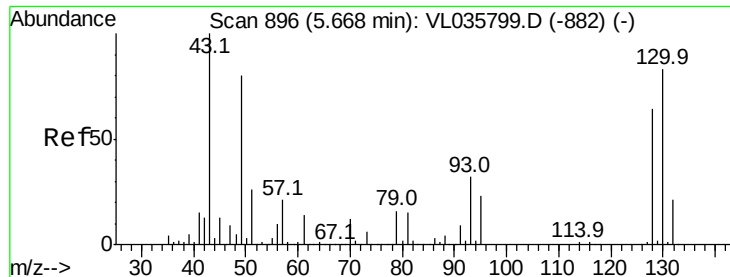
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations APPROVED

MMDadoda
11/9/2020 10:48:27 AM

Quant Time: Nov 06 08:17:01 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL035885.D

Acq: 6 Nov 2020 7:37

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 49 Resp: 1014424

Ion Ratio Lower Upper

49 100

128 81.4 41.5 124.6

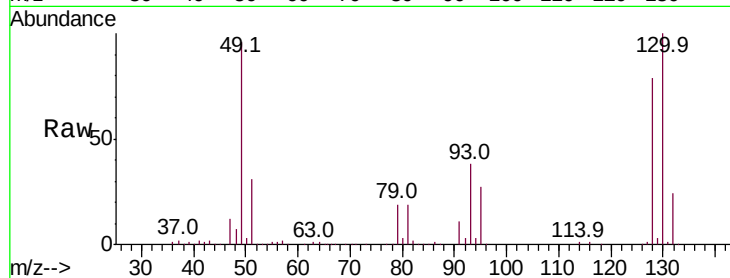
130 104.6 53.7 161.1

Manual Integrations

APPROVED

MMDadoda

11/9/2020 10:48:27 AM



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

600000

500000

400000

300000

200000

100000

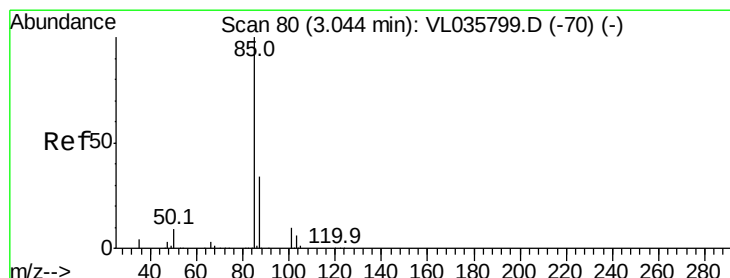
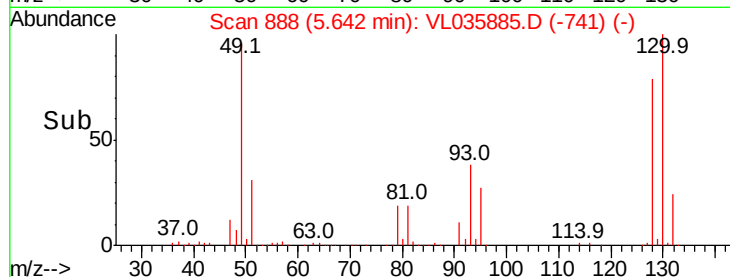
0

5.64

5.70

5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.289 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035885.D

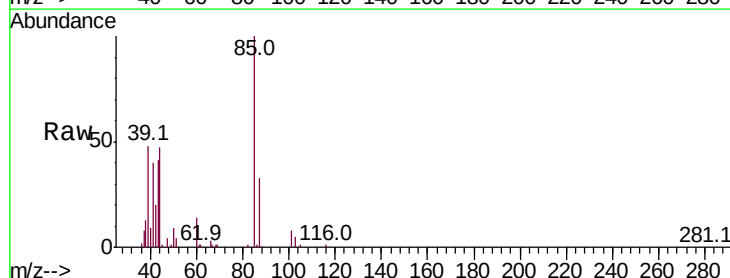
Acq: 6 Nov 2020 7:37

Tgt Ion: 85 Resp: 55163

Ion Ratio Lower Upper

85 100

87 33.1 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

40000

30000

20000

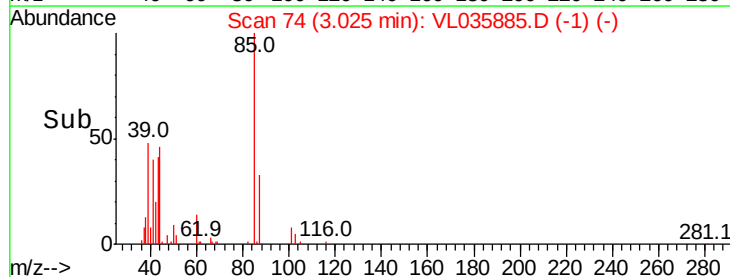
10000

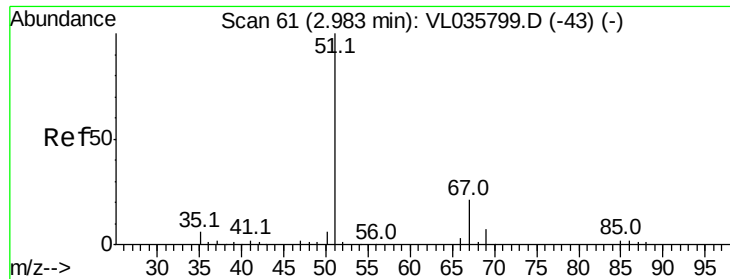
0

3.02

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.434 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL035885.D

Acq: 6 Nov 2020 7:37

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 51 Resp: 52686

Ion Ratio Lower Upper

51 100

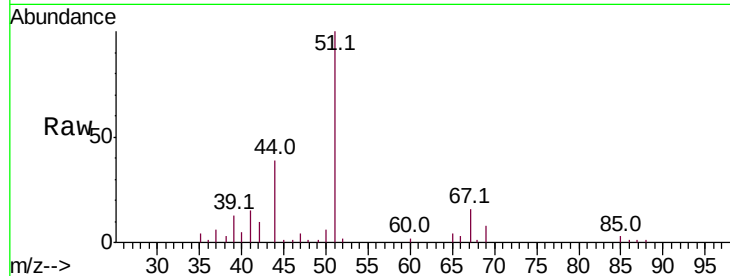
67 16.0 17.0 25.4#

Manual Integrations

APPROVED

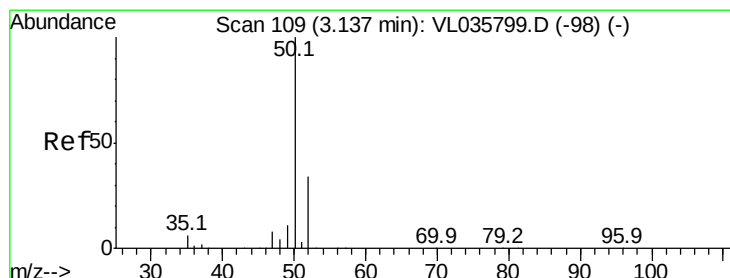
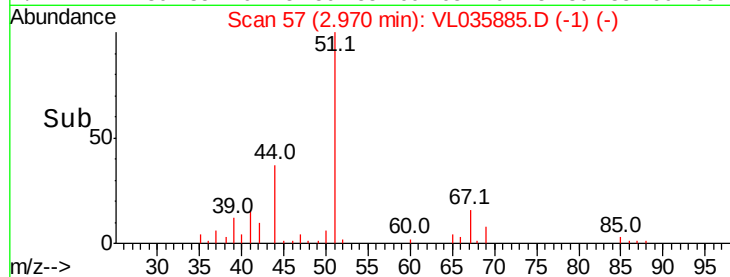
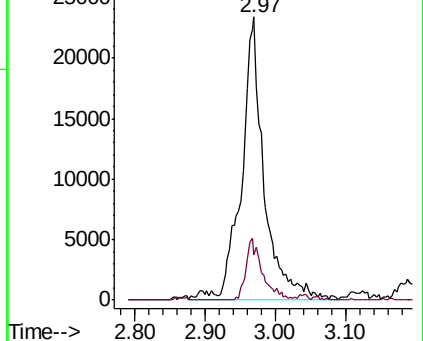
MMDadoda

11/9/2020 10:48:27 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.567 ppbv m

RT: 3.12 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL035885.D

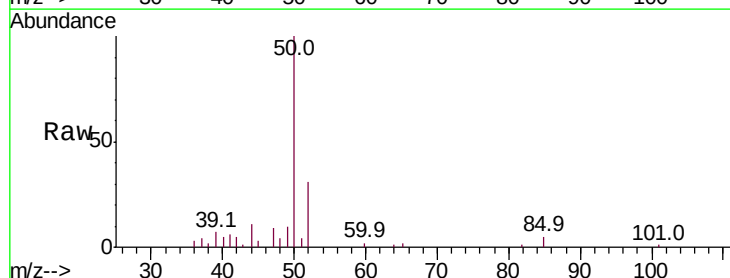
Acq: 6 Nov 2020 7:37

Tgt Ion: 50 Resp: 33441

Ion Ratio Lower Upper

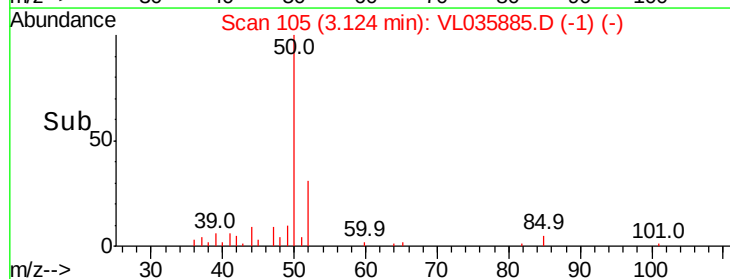
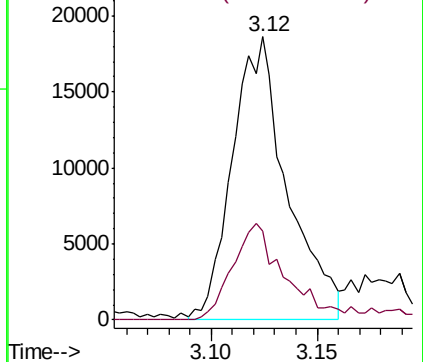
50 100

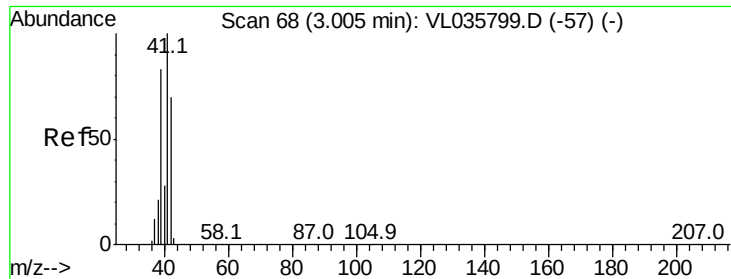
52 31.3 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.795 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035885.D

Acq: 6 Nov 2020 7:37

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 41 Resp: 124258

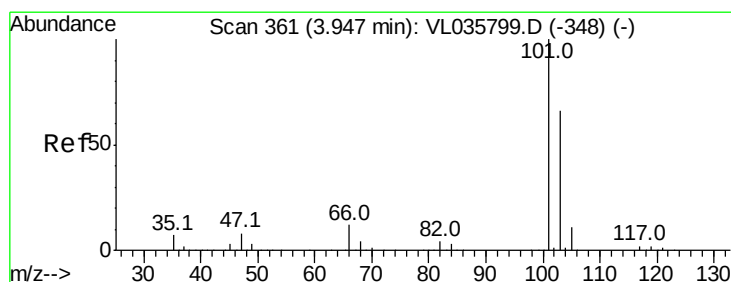
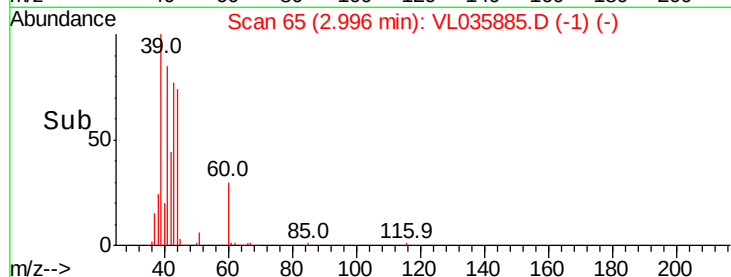
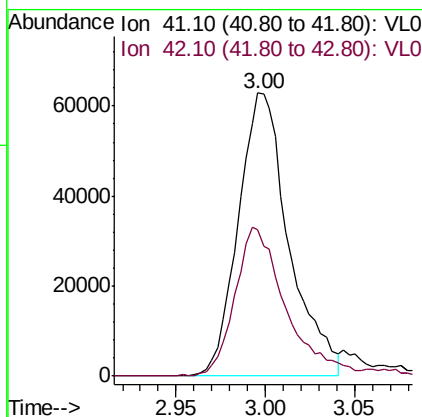
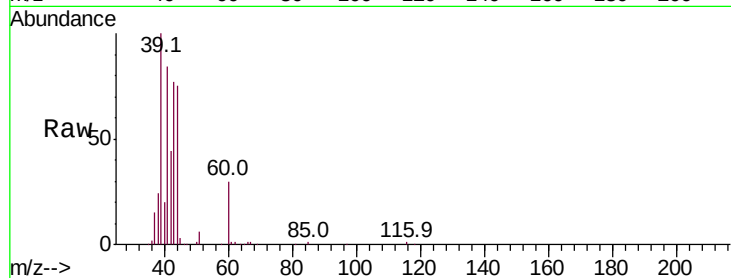
Ion Ratio Lower Upper

41 100

42 54.7 56.2 84.4#

Manual Integrations
APPROVED

MMDadoda
11/9/2020 10:48:27 AM



#11

Trichlorofluoromethane

Concen: 0.230 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.02 min

Lab File: VL035885.D

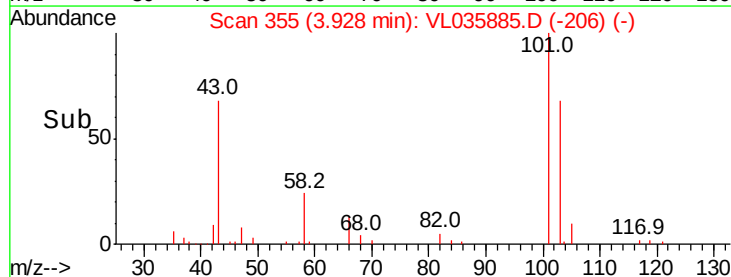
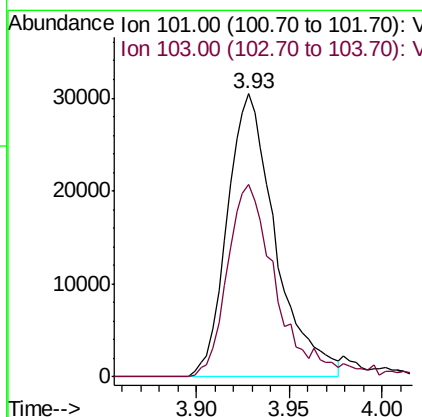
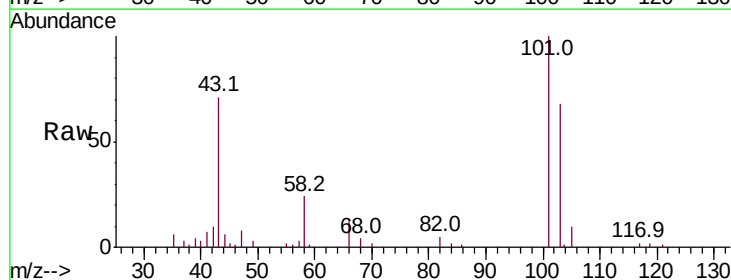
Acq: 6 Nov 2020 7:37

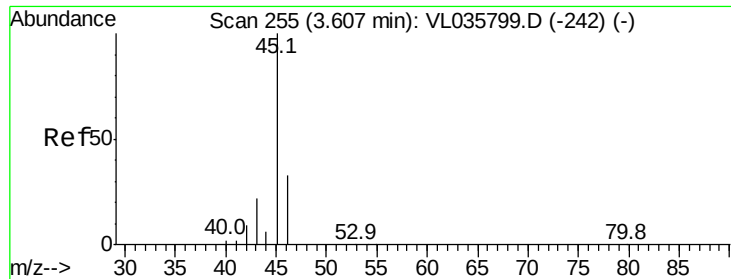
Tgt Ion: 101 Resp: 55045

Ion Ratio Lower Upper

101 100

103 67.9 53.0 79.4





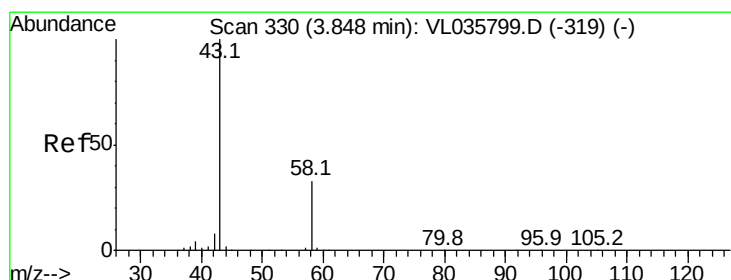
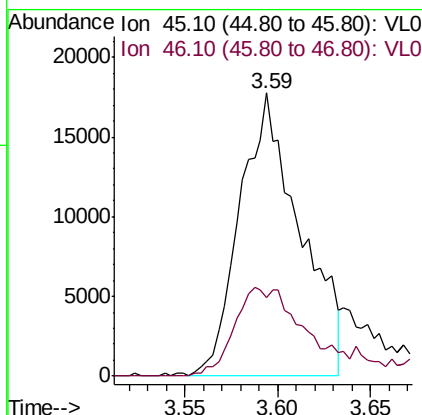
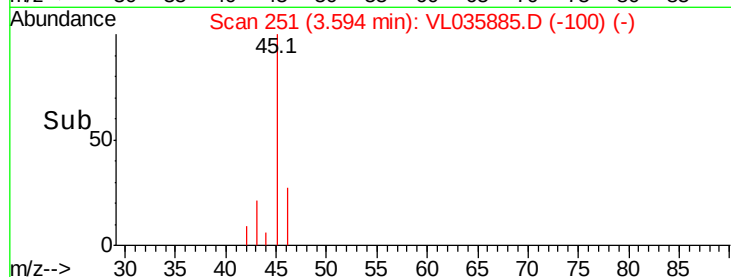
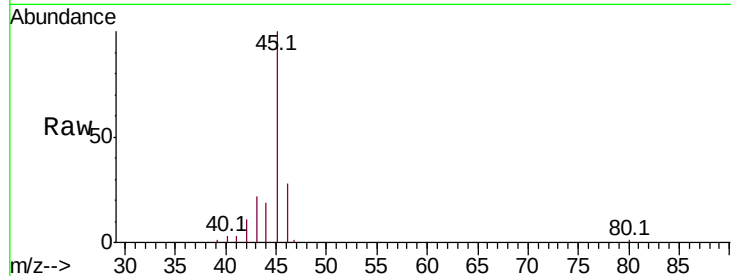
#13
Ethanol
Concen: 4.154 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL035885.D
Acq: 6 Nov 2020 7:37

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 45 Resp: 40073
Ion Ratio Lower Upper
45 100
46 44.8 16.1 64.5

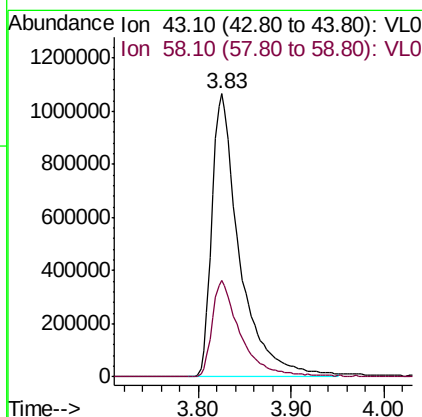
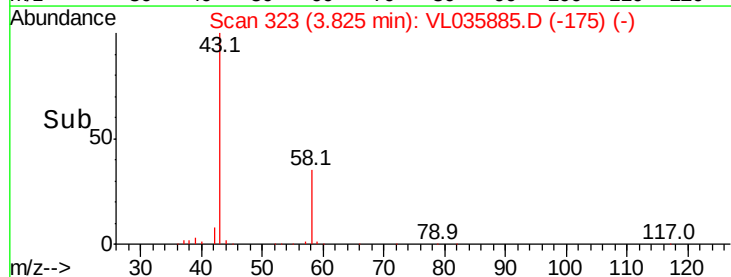
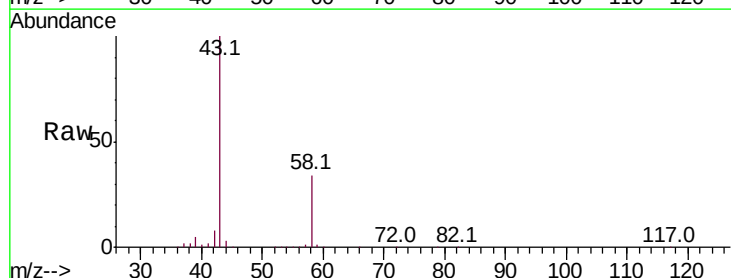
Manual Integrations
APPROVED

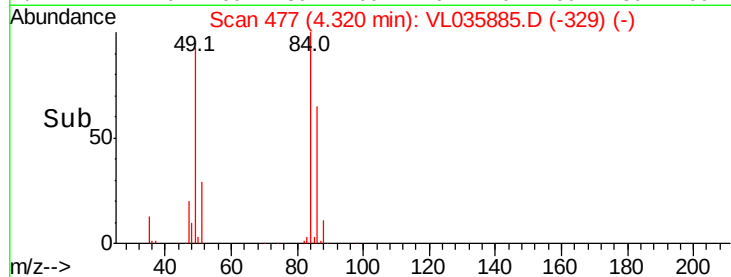
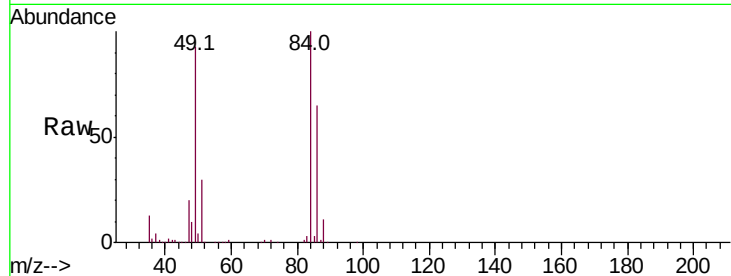
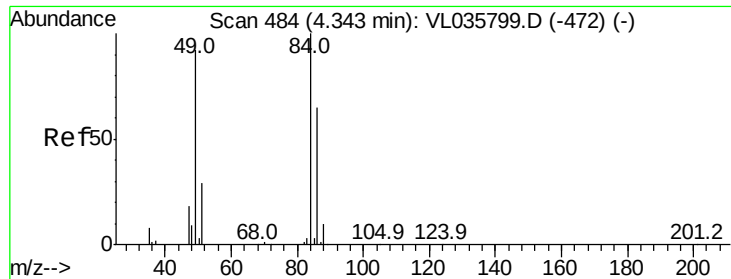
MMDadoda
11/9/2020 10:48:27 AM



#15
Acetone
Concen: 20.489 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.02 min
Lab File: VL035885.D
Acq: 6 Nov 2020 7:37

Tgt Ion: 43 Resp: 2222033
Ion Ratio Lower Upper
43 100
58 35.5 27.5 41.3





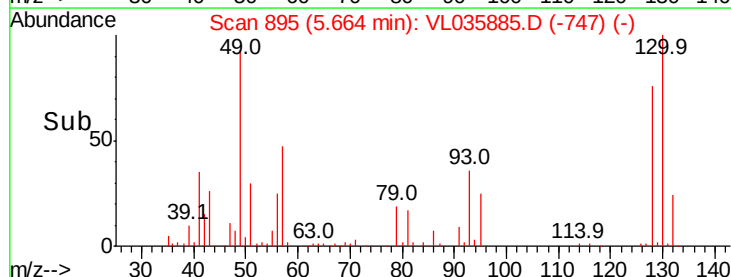
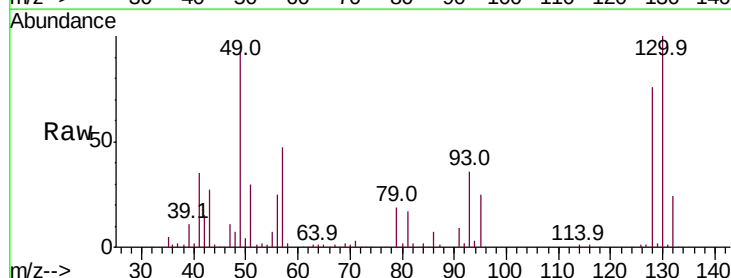
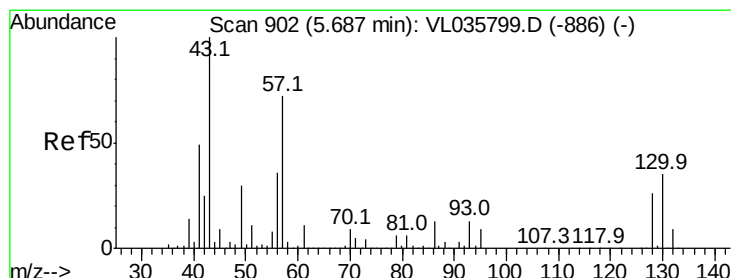
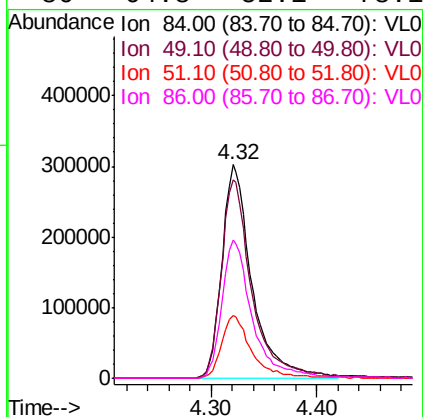
#20
Methylene Chloride
Concen: 7.824 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.02 min
Lab File: VL035885.D
Acq: 6 Nov 2020 7:37

Tot Ion	84	Resp	597339
Ion Ratio	100	Lower	Upper
84	100		
49	92.7	73.8	110.8
51	29.6	23.0	34.4
86	64.8	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
SV1

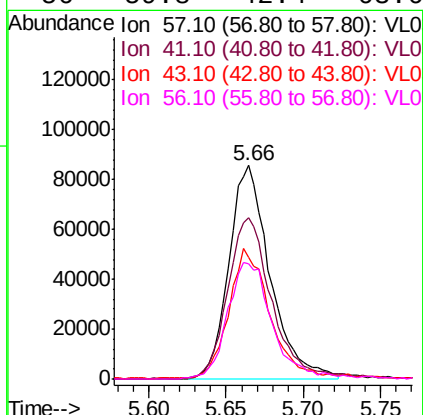
Manual Integrations
APPROVED

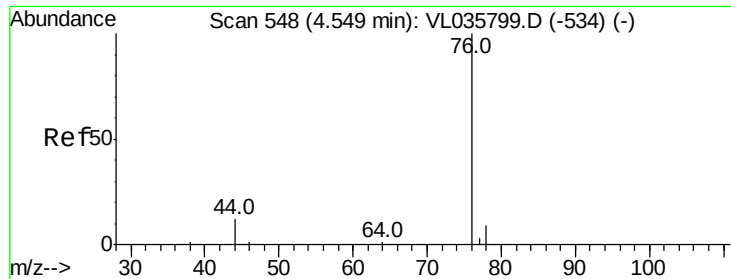
MMDadoda
11/9/2020 10:48:27 AM



#26
Hexane
Concen: 1.343 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035885.D
Acq: 6 Nov 2020 7:37

Tgt Ion	57	Resp	158225
Ion Ratio	100	Lower	Upper
57	100		
41	81.9	58.9	88.3
43	61.3	150.2	225.2
56	59.8	42.4	63.6





#27

Carbon Disulfide

Concen: 0.364 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.02 min

Lab File: VL035885.D

Acq: 6 Nov 2020 7:37

Instrument :

MSVOA_L

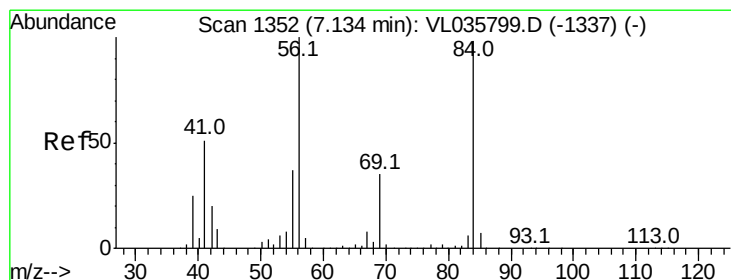
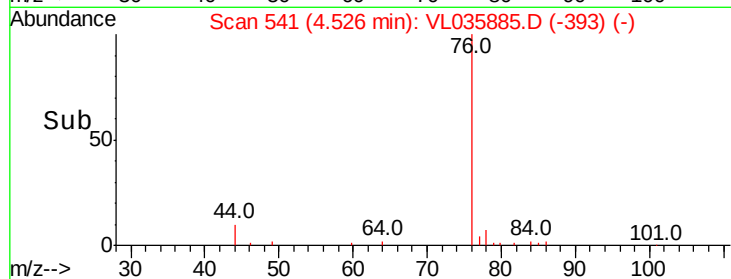
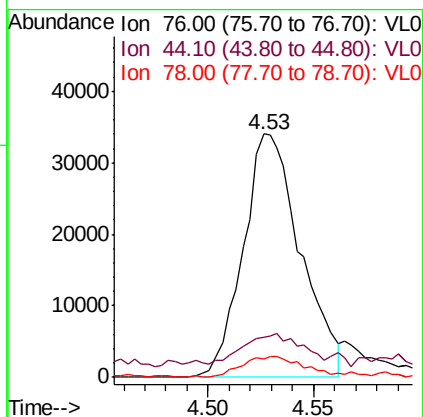
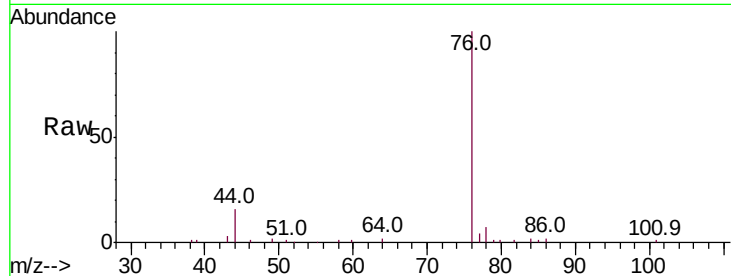
ClientSampleId :

SV1

Tot Ion:	76	Resp:	64290
Ion Ratio	Lower	Upper	
76	100		
44	19.7	9.9	14.9#
78	10.6	8.1	12.1

Manual Integrations
APPROVED

MMDadoda
11/9/2020 10:48:27 AM



#30

Cyclohexane

Concen: 0.246 ppbv m

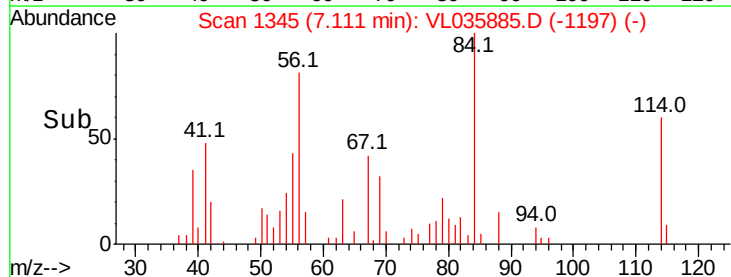
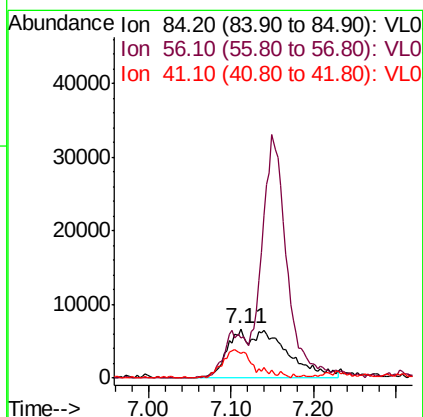
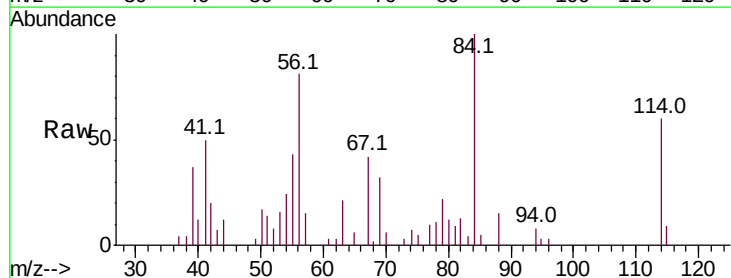
RT: 7.11 min Scan# 1345

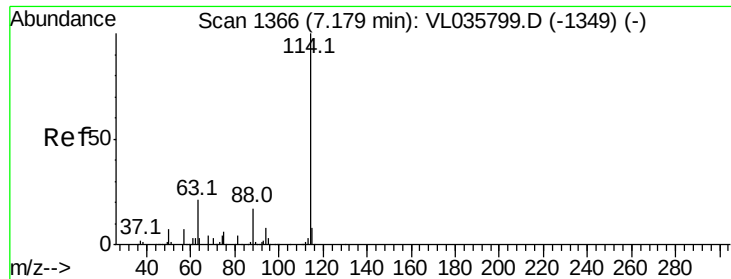
Delta R.T. -0.02 min

Lab File: VL035885.D

Acq: 6 Nov 2020 7:37

Tgt Ion:	84	Resp:	31585
Ion Ratio	Lower	Upper	
84	100		
56	0.0	86.4	129.6#
41	32.5	42.1	63.1#





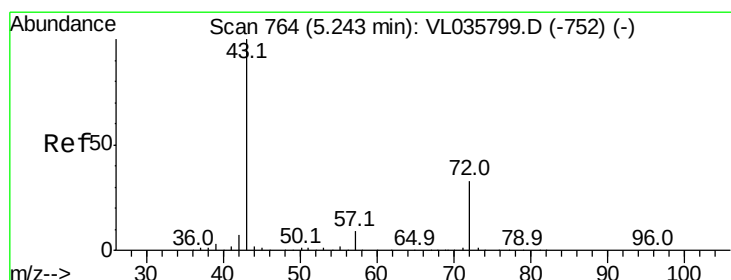
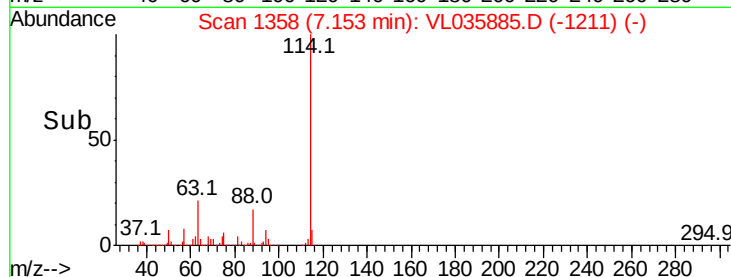
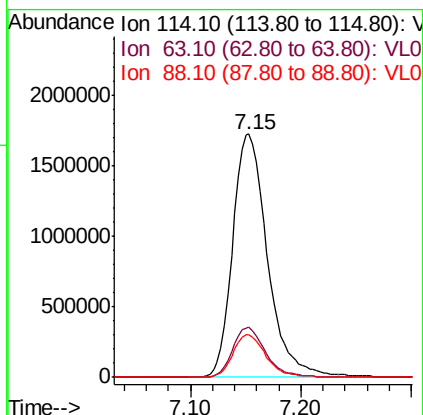
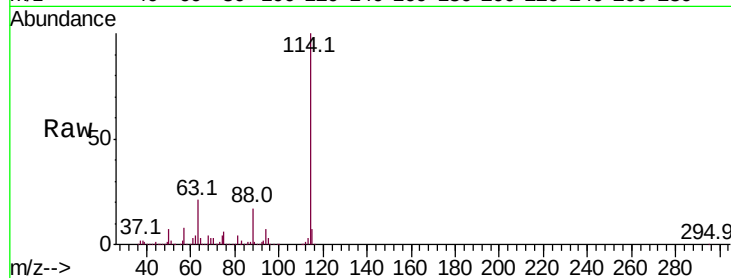
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.03 min
 Lab File: VL035885.D
 Acq: 6 Nov 2020 7:37

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	16.1	24.1
88	17.1	13.7	20.5

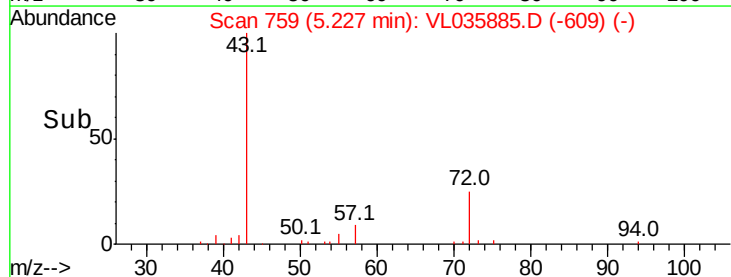
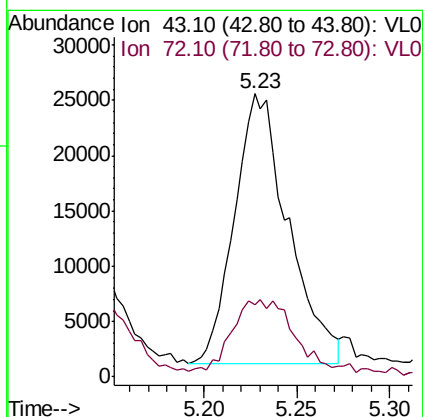
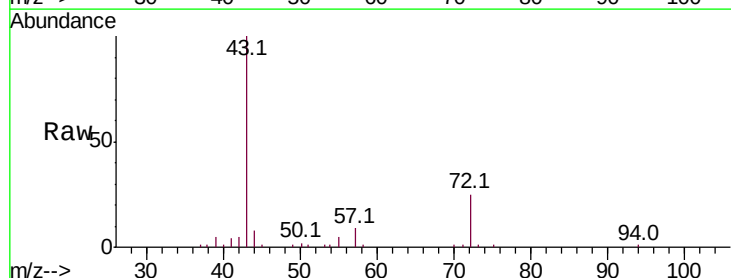
Manual Integrations
 APPROVED

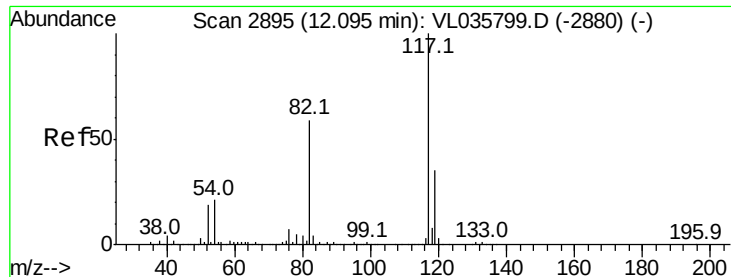
MMDadoda
 11/9/2020 10:48:27 AM



#34
 2-Butanone
 Concen: 0.401 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: VL035885.D
 Acq: 6 Nov 2020 7:37

Tgt Ion	Ratio	Lower	Upper
43	100		
72	39.3	26.5	39.7





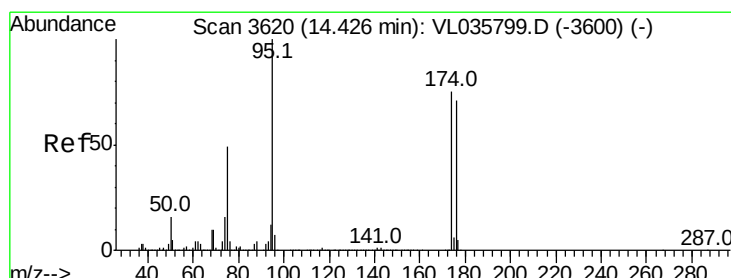
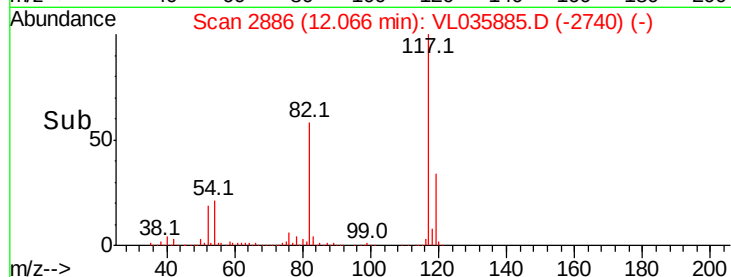
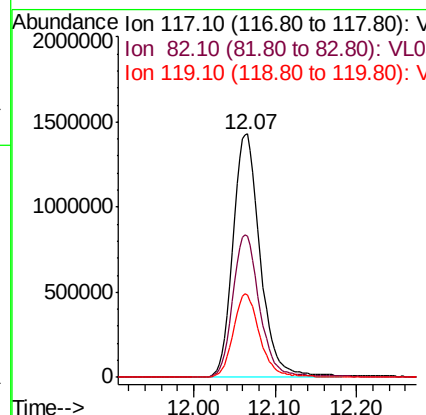
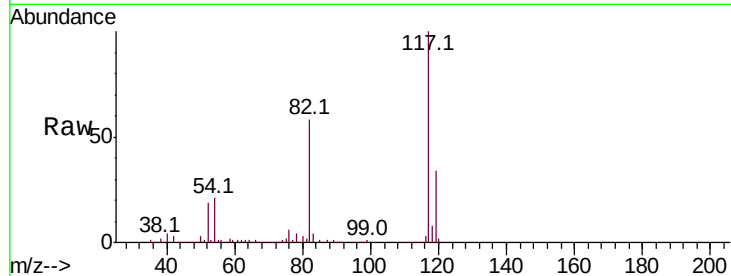
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.03 min
Lab File: VL035885.D
Acq: 6 Nov 2020 7:37

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion:117 Resp: 3361886
Ion Ratio Lower Upper
117 100
82 58.8 50.6 76.0
119 33.8 52.6 78.8#

Manual Integrations
APPROVED

MMDadoda
11/9/2020 10:48:27 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.759 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.03 min
Lab File: VL035885.D
Acq: 6 Nov 2020 7:37

Tgt Ion: 95 Resp: 2330942
Ion Ratio Lower Upper
95 100
174 78.1 59.8 89.6
175 5.5 4.3 6.5

