

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035255.D
 Acq On : 29 Jul 2020 20:49
 Operator : SY/AP
 Sample : L3463-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:11:25 PM

Quant Time: Jul 30 04:51:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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	1087123	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2585183	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2499366	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2069094	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	45059m	0.347	ppbv	
3) Chlorodifluoromethane	2.95	51	64748m	0.538	ppbv	
4) Chloromethane	3.10	50	86340	1.275	ppbv	97
9) Propene	2.98	41	51060	1.217	ppbv	84
11) Trichlorofluoromethane	3.92	101	51422	0.294	ppbv	98
13) Ethanol	3.58	45	4455541	260.975	ppbv	97
15) Acetone	3.82	43	2157603	14.879	ppbv	100
17) tert-Butyl alcohol	4.29	59	63818	0.456	ppbv #	91
19) Isopropyl Alcohol	3.95	45	1345419	14.068	ppbv	99
20) Methylene Chloride	4.32	84	465072	7.046	ppbv	95
26) Hexane	5.68	57	190790	1.868	ppbv #	59
29) Chloroform	5.74	83	56437	0.329	ppbv	85
34) 2-Butanone	5.23	43	124441	0.946	ppbv	97
35) Carbon Tetrachloride	7.03	117	14488m	0.084	ppbv	
36) Benzene	6.90	78	33504	0.186	ppbv #	85
44) 2,2,4-Trimethylpentane	7.88	57	76264m	0.241	ppbv	
52) Tetrachloroethene	11.25	164	891681	13.008	ppbv	95
53) Toluene	9.83	91	166826	0.874	ppbv	100
59) m/p-Xylene	13.00	91	38186m	0.155	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	23572m	0.128	ppbv	

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

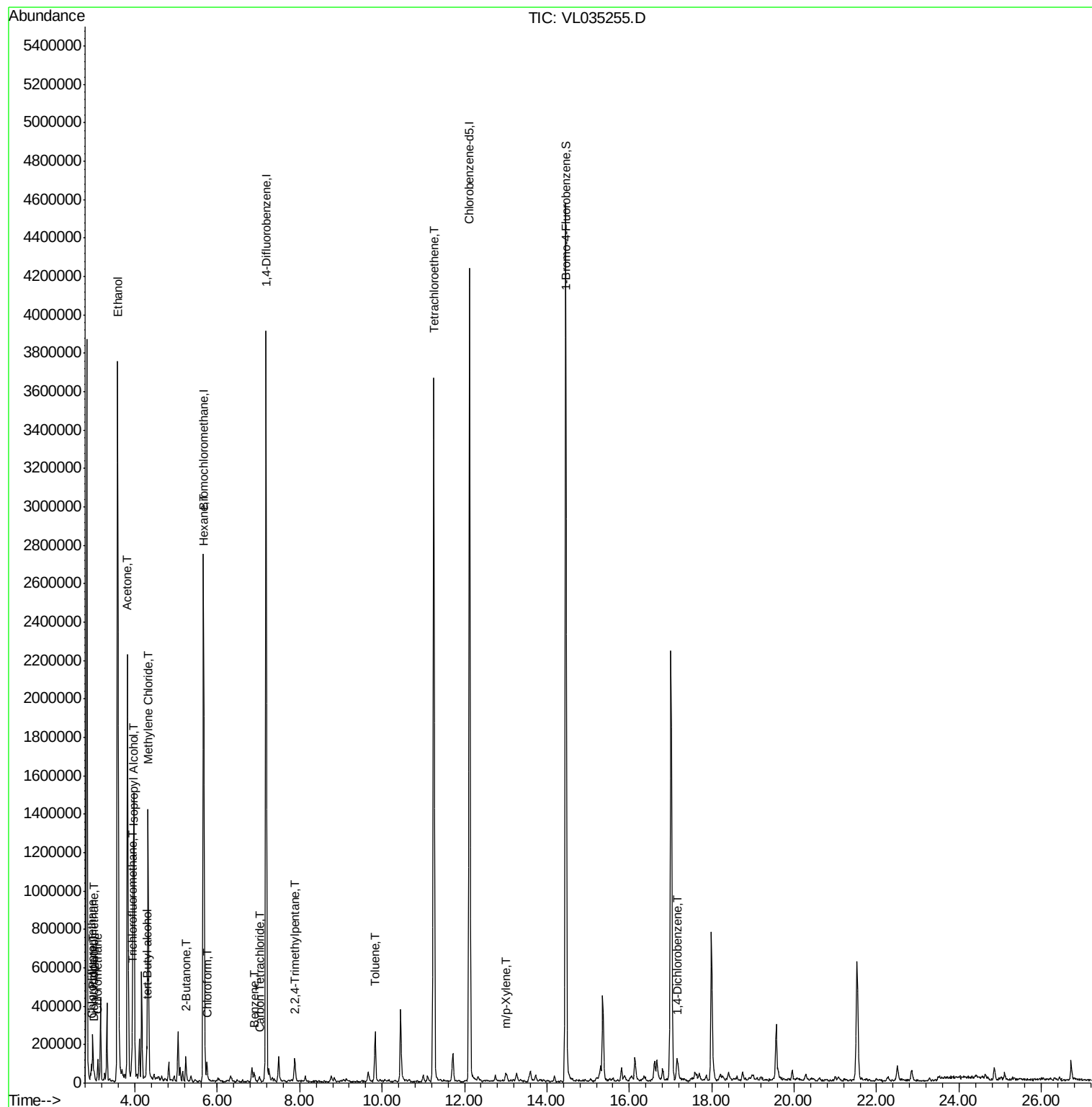
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072920\
Data File : VL035255.D
Acq On : 29 Jul 2020 20:49
Operator : SY/AP
Sample : L3463-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

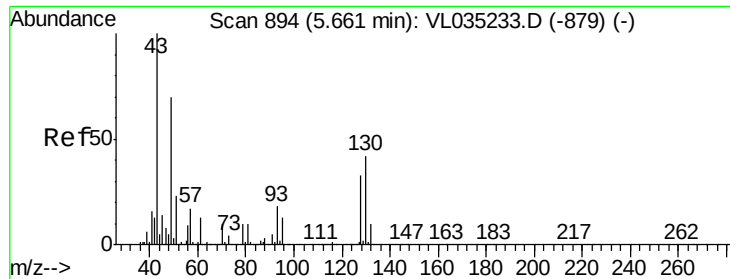
Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations
APPROVED

MMDadoda
7/30/2020 6:11:25 PM

Quant Time: Jul 30 04:51:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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# 894

Delta R.T. 0.00 min

Lab File: VL035255.D

Acq: 29 Jul 2020 20:49

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 49 Resp: 1087123

Ion Ratio Lower Upper

49 100

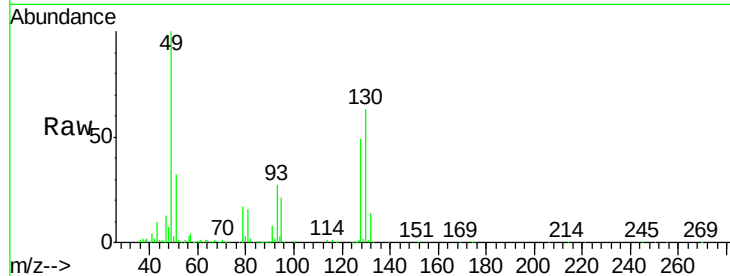
128 48.9 24.0 72.0

130 62.0 30.7 92.1

Manual Integrations
APPROVED

MMDadoda

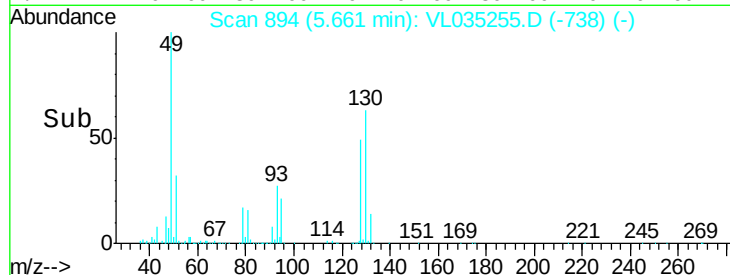
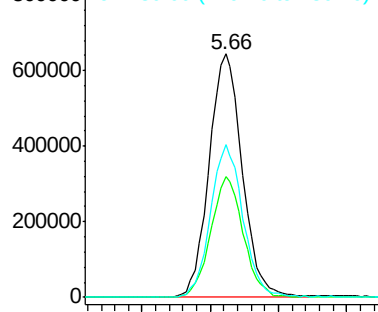
7/30/2020 6:11:25 PM



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: 0.347 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035255.D

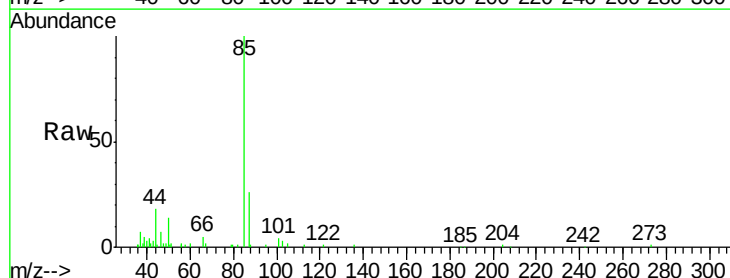
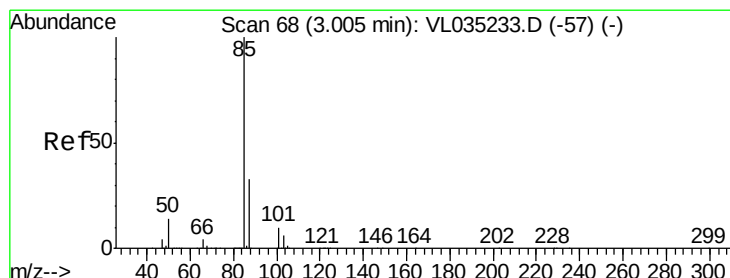
Acq: 29 Jul 2020 20:49

Tgt Ion: 85 Resp: 45059

Ion Ratio Lower Upper

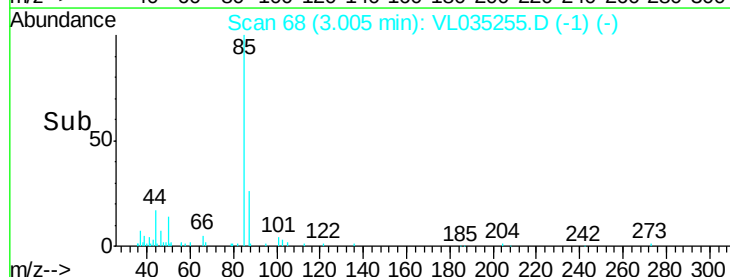
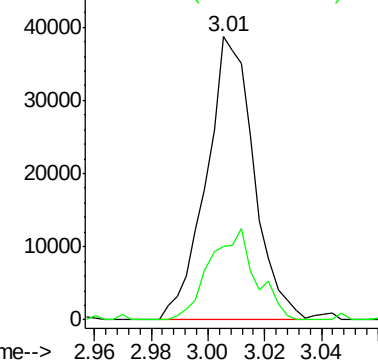
85 100

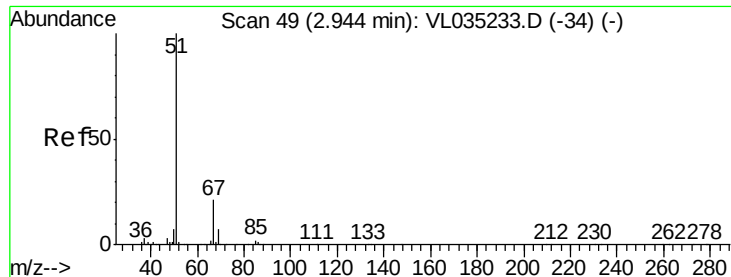
87 25.8 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.538 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL035255.D

Acq: 29 Jul 2020 20:49

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 51 Resp: 64748

Ion Ratio Lower Upper

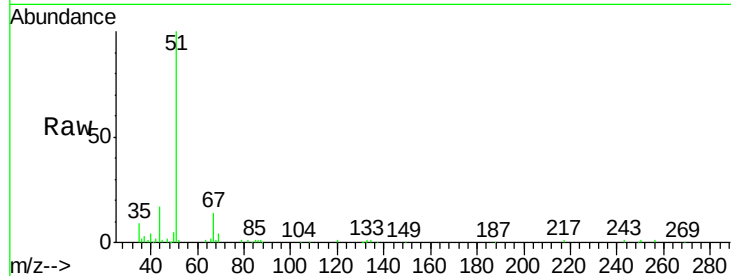
51 100

67 1.0 16.6 25.0#

Manual Integrations
APPROVED

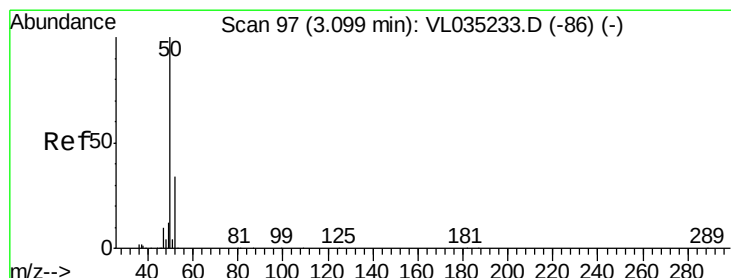
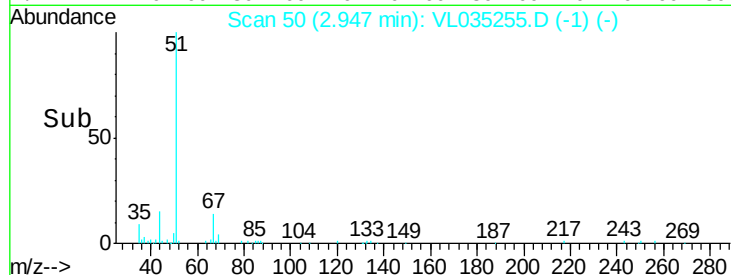
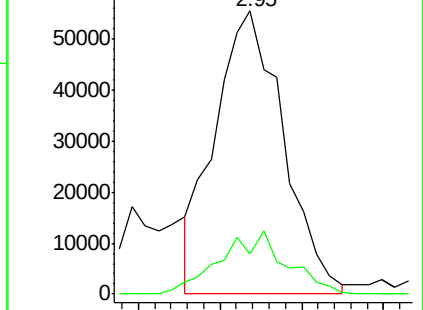
MMDadoda

7/30/2020 6:11:25 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.275 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL035255.D

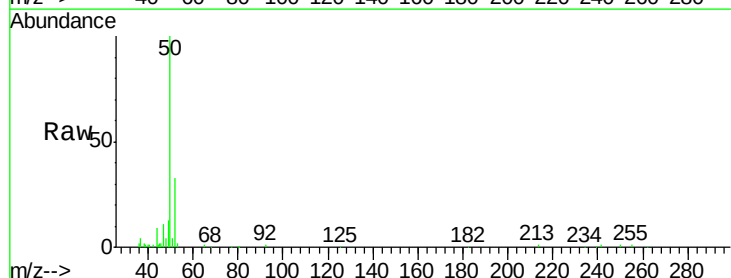
Acq: 29 Jul 2020 20:49

Tgt Ion: 50 Resp: 86340

Ion Ratio Lower Upper

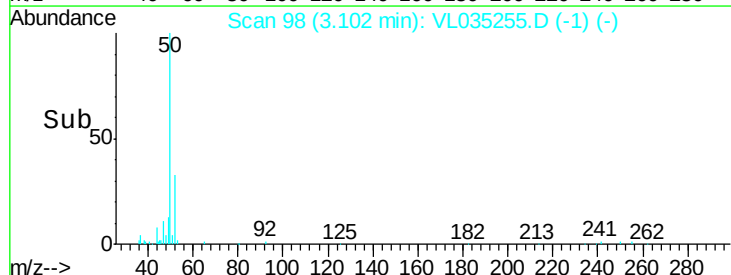
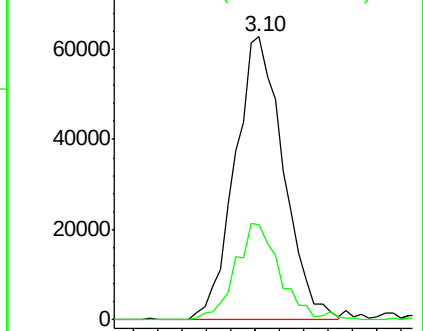
50 100

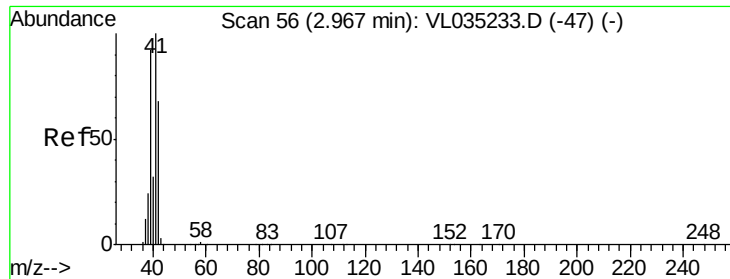
52 32.5 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.217 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035255.D

Acq: 29 Jul 2020 20:49

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 41 Resp: 51060

Ion Ratio Lower Upper

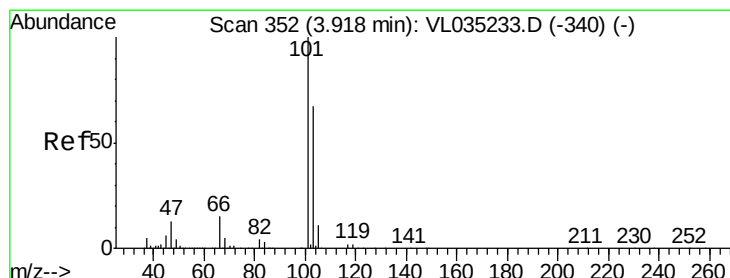
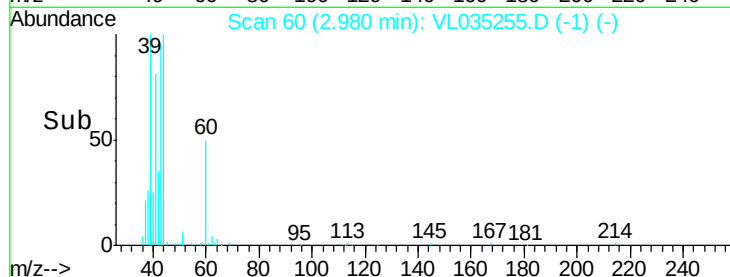
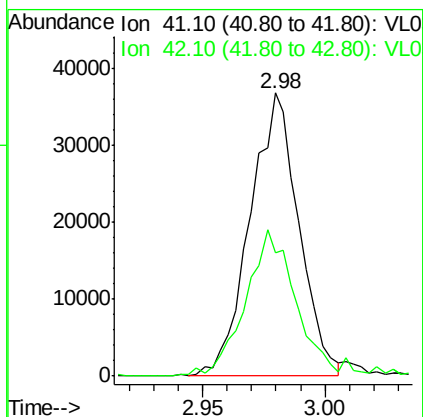
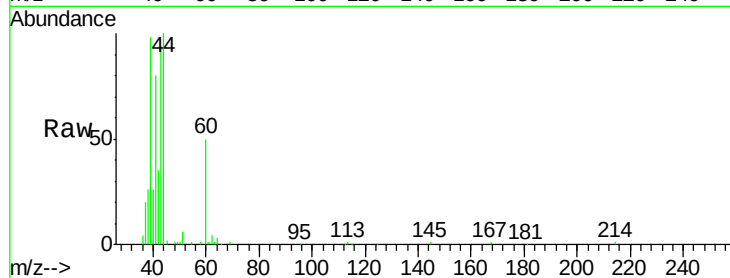
41 100

42 56.1 55.0 82.6

Manual Integrations
APPROVED

MMDadoda

7/30/2020 6:11:25 PM



#11

Trichlorofluoromethane

Concen: 0.294 ppbv

RT: 3.92 min Scan# 354

Delta R.T. 0.01 min

Lab File: VL035255.D

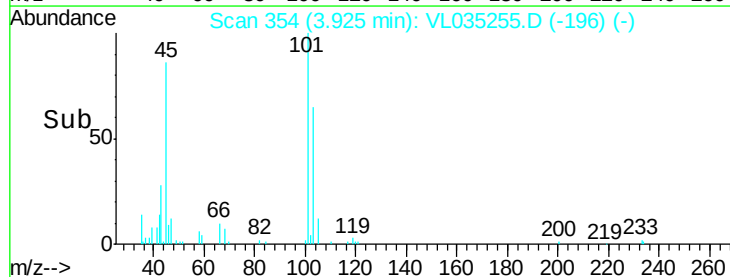
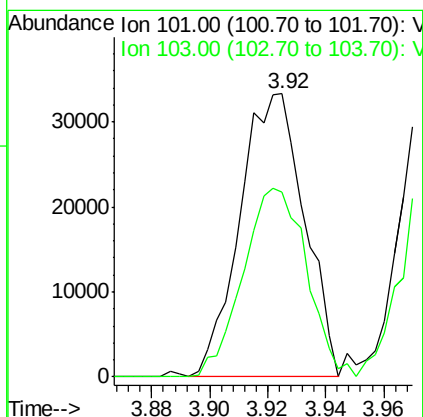
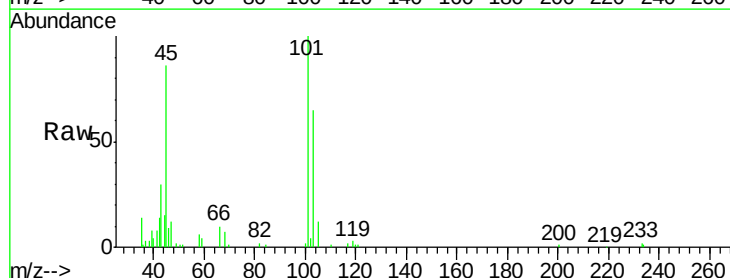
Acq: 29 Jul 2020 20:49

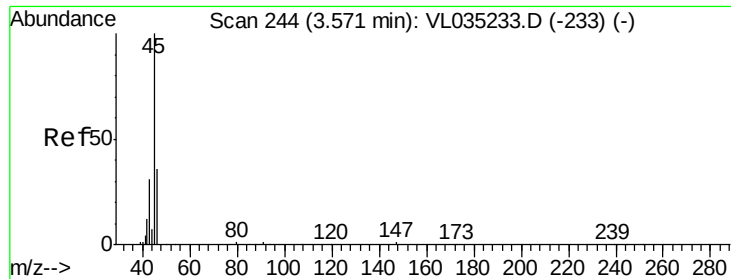
Tgt Ion: 101 Resp: 51422

Ion Ratio Lower Upper

101 100

103 65.1 53.4 80.0





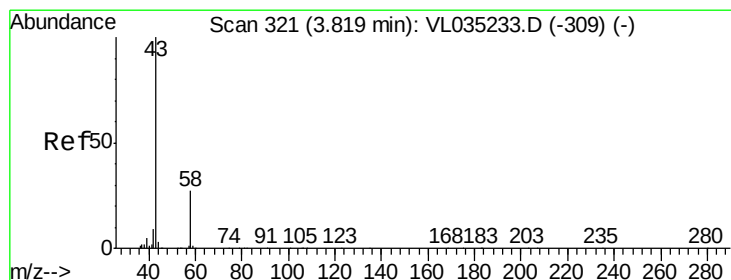
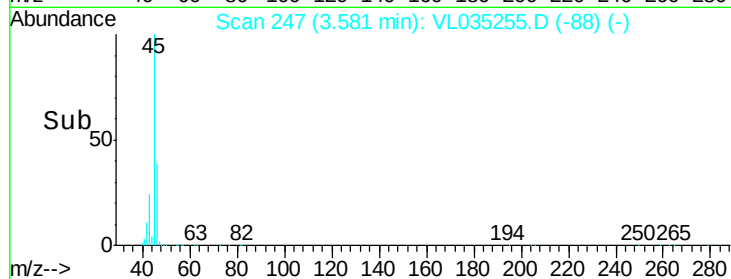
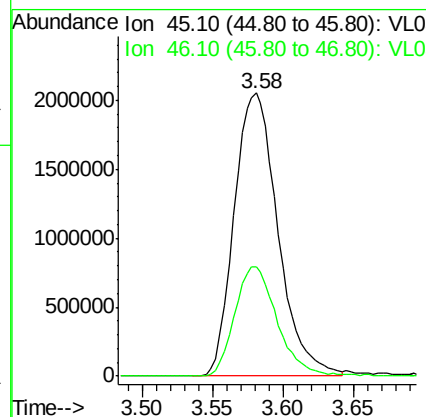
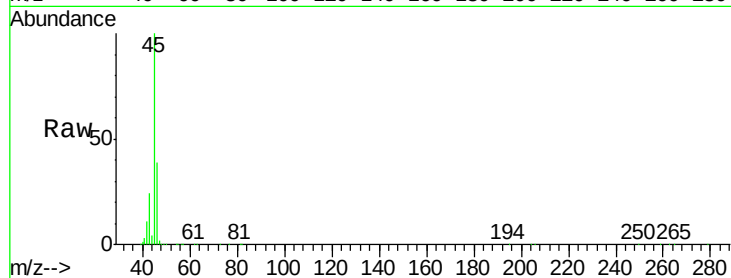
#13
Ethanol
Concen: 260.975 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.01 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion: 45 Resp: 4455541
Ion Ratio Lower Upper
45 100
46 38.1 15.8 63.4

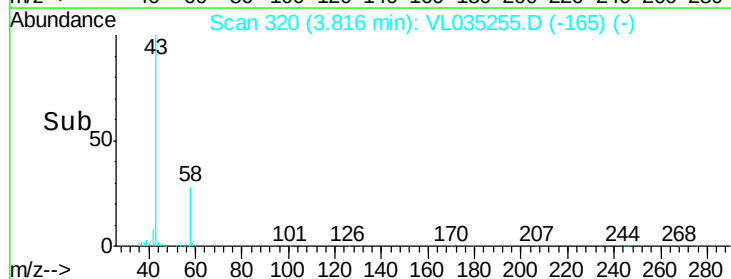
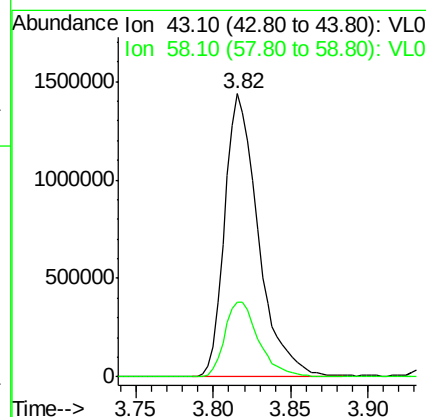
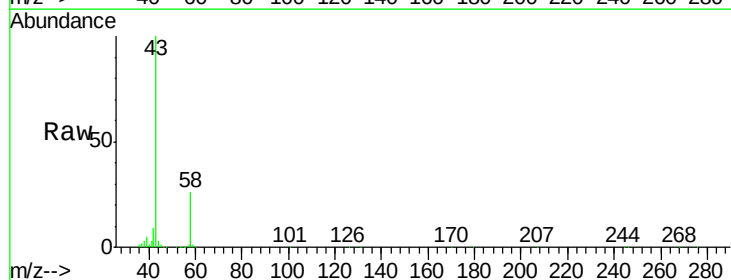
Manual Integrations
APPROVED

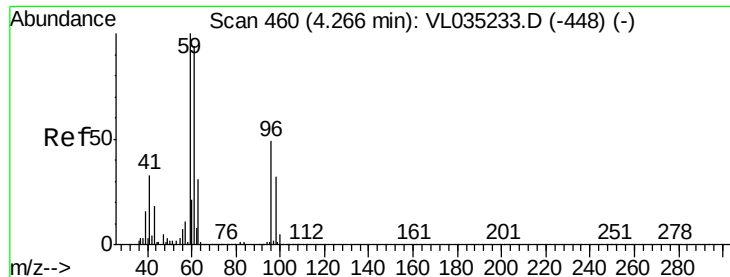
MMDadoda
7/30/2020 6:11:25 PM



#15
Acetone
Concen: 14.879 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Tgt Ion: 43 Resp: 2157603
Ion Ratio Lower Upper
43 100
58 27.0 21.8 32.6





#17

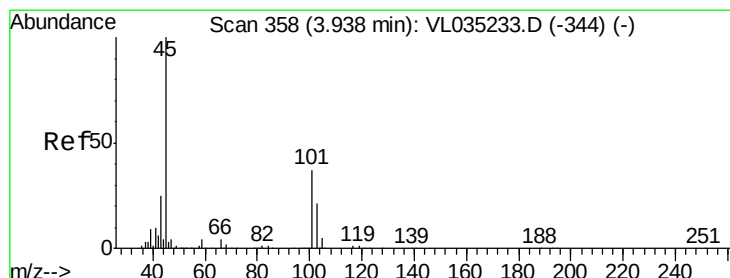
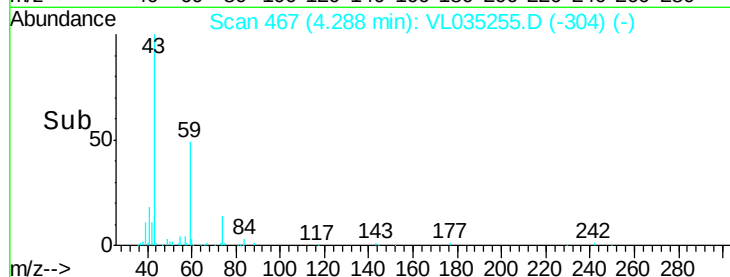
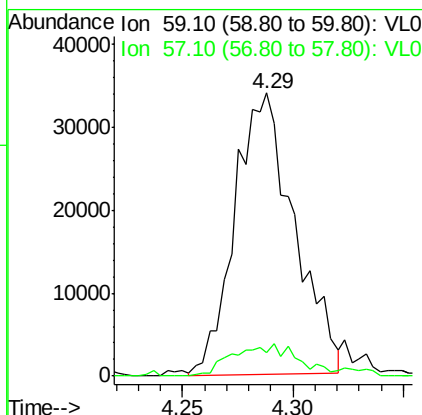
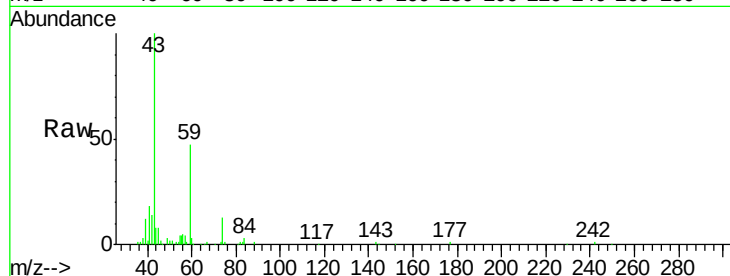
tert-Butyl alcohol
 Concen: 0.456 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.02 min
 Lab File: VL035255.D
 Acq: 29 Jul 2020 20:49

Instrument :
 MSVOA_L
 ClientSampled :
 IA2

Tot Ion	59	Resp	63818
Ion Ratio	100	Lower	Upper
57	14.2	8.6	12.8#

Manual Integrations
 APPROVED

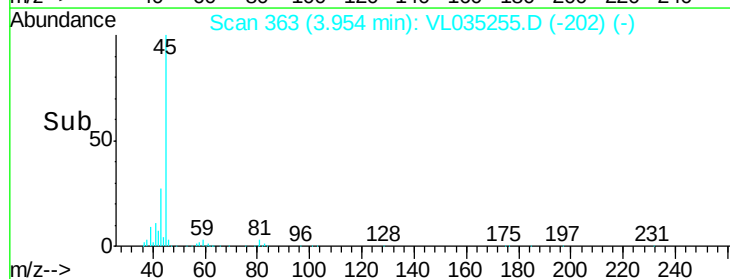
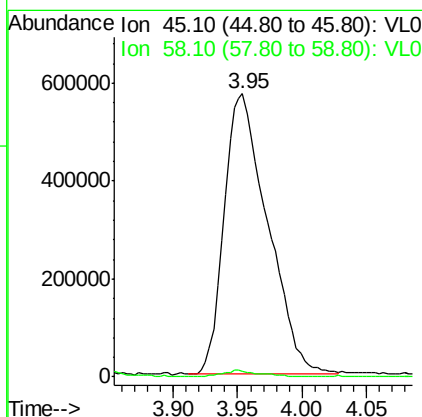
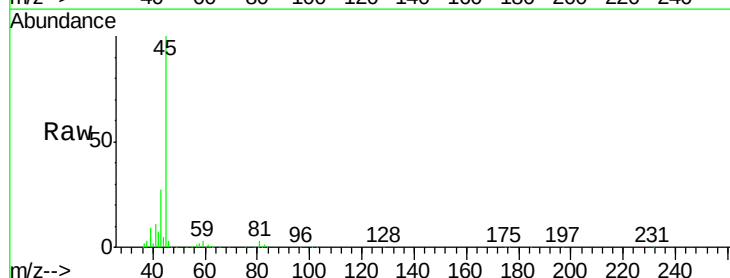
MMDadoda
 7/30/2020 6:11:25 PM

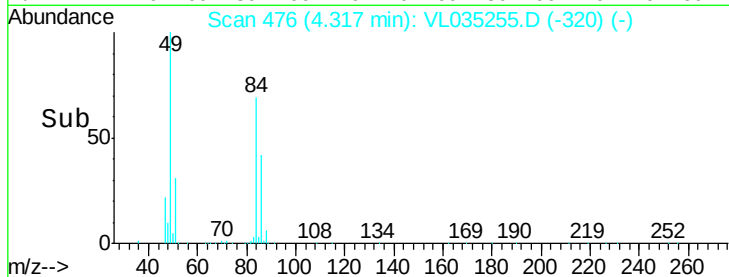
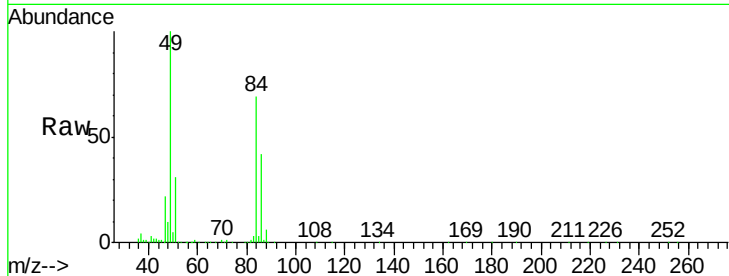
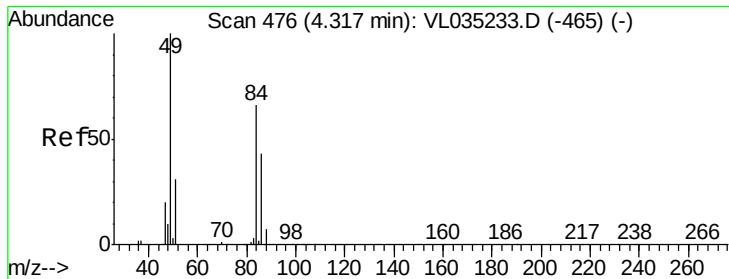


#19

Isopropyl Alcohol
 Concen: 14.068 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.02 min
 Lab File: VL035255.D
 Acq: 29 Jul 2020 20:49

Tgt Ion	45	Resp	1345419
Ion Ratio	100	Lower	Upper
58	2.1	1.9	2.9





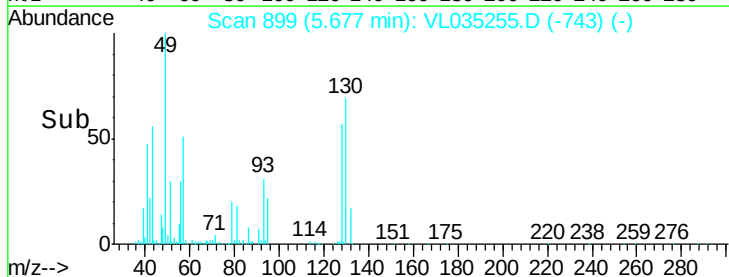
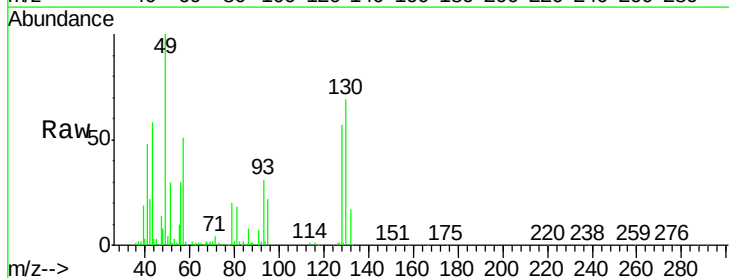
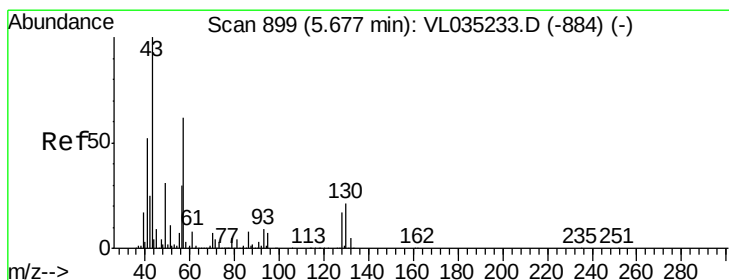
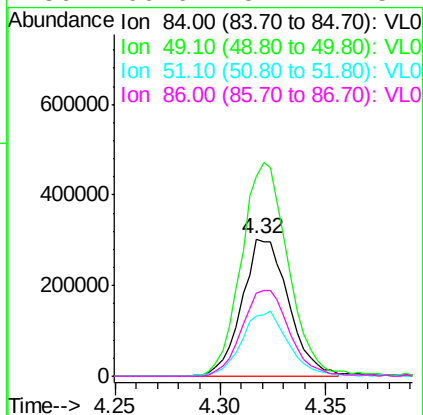
#20
Methvlene Chloride
Concen: 7.046 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Tot Ion	84	Resp	465072
Ion Ratio	Lower	Upper	
84	100		
49	145.1	121.0	181.4
51	43.9	37.7	56.5
86	60.6	52.2	78.4

Instrument :
MSVOA_L
ClientSampleId :
IA2

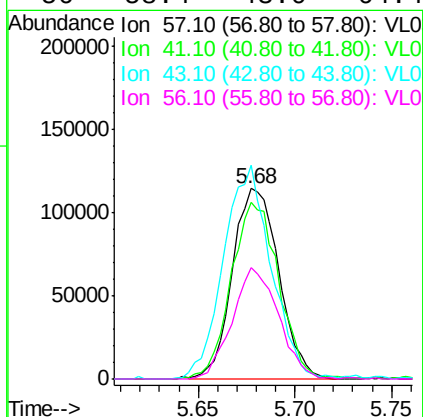
Manual Integrations
APPROVED

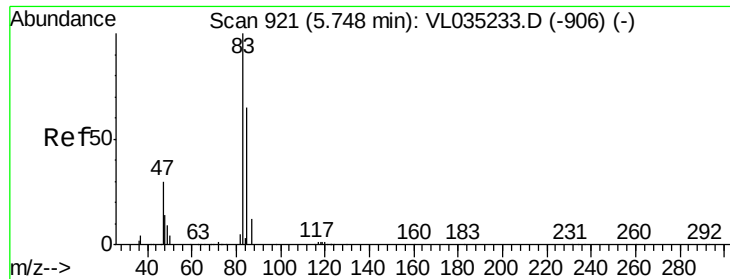
MMDadoda
7/30/2020 6:11:25 PM



#26
Hexane
Concen: 1.868 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Tgt Ion	57	Resp	190790
Ion Ratio	Lower	Upper	
57	100		
41	95.3	73.9	110.9
43	116.7	177.6	266.4#
56	58.4	43.0	64.4





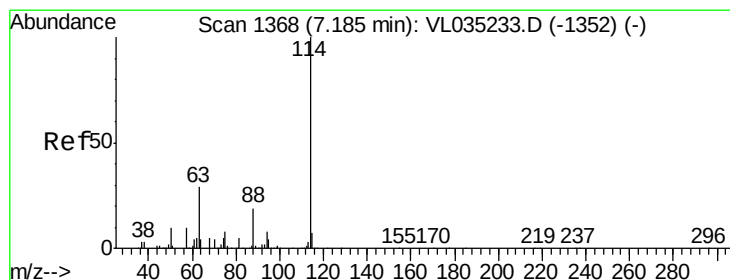
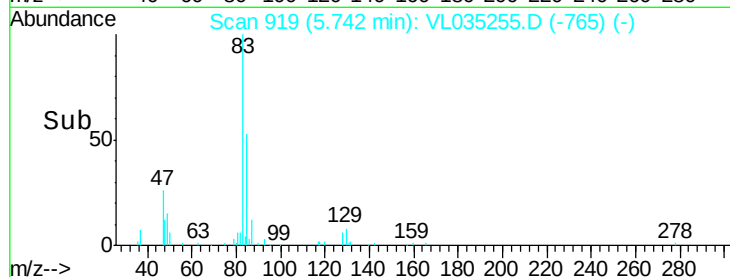
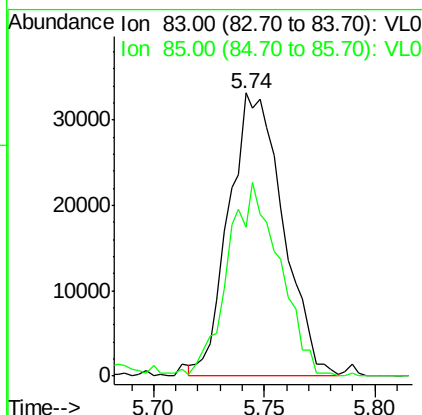
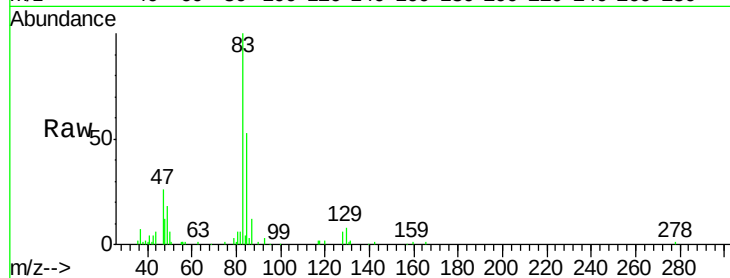
#29
Chloroform
Concen: 0.329 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	83	Resp	56437
Ion Ratio	100	Lower	Upper
85	52.9	51.7	77.5

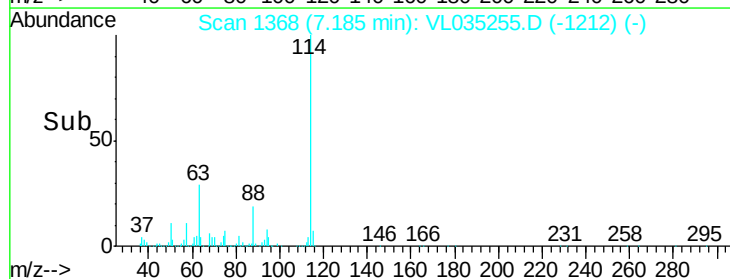
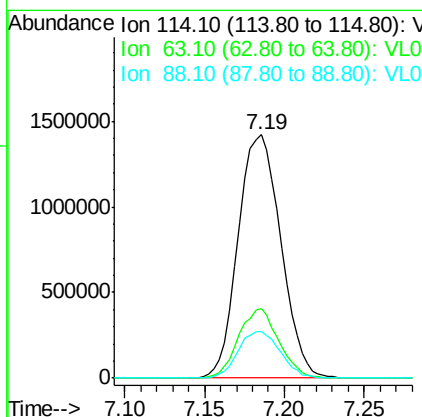
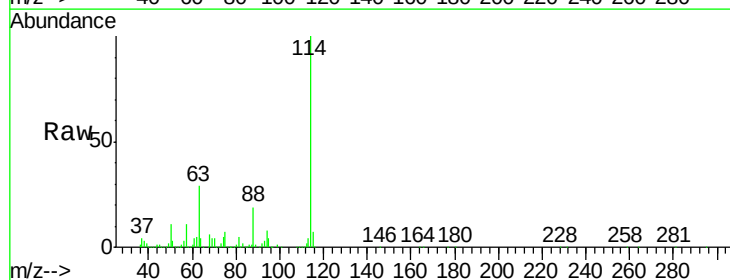
Manual Integrations
APPROVED

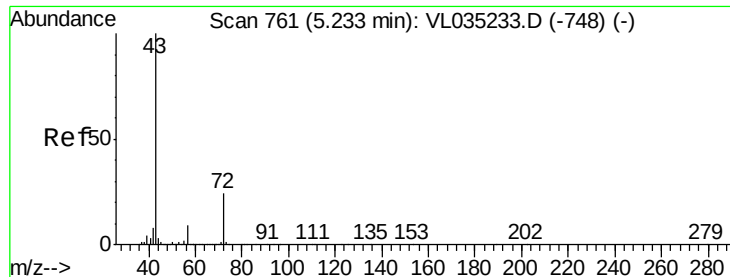
MMDadoda
7/30/2020 6:11:25 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Tgt Ion	114	Resp	2585183
Ion Ratio	100	Lower	Upper
63	27.1	22.2	33.2
88	19.0	15.4	23.0





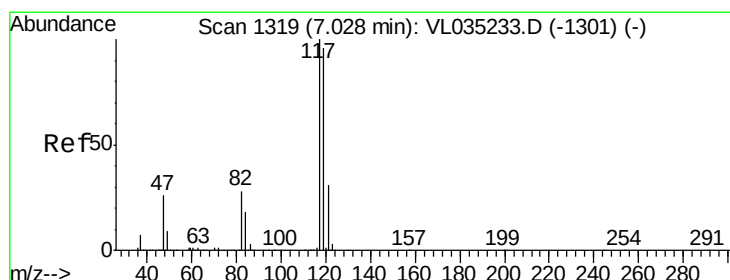
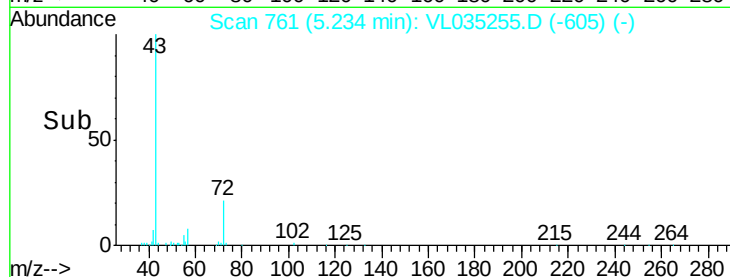
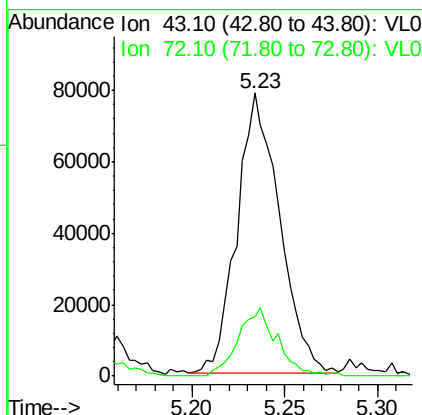
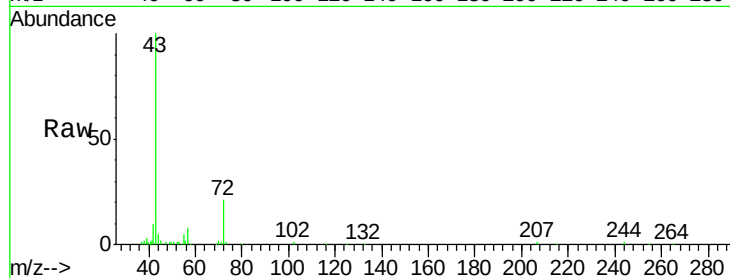
#34
2-Butanone
Concen: 0.946 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	43	Resp	124441
Ion Ratio	100	Lower	Upper
43	100		
72	22.6	19.2	28.8

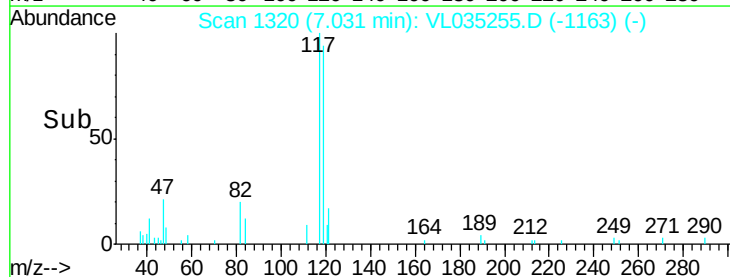
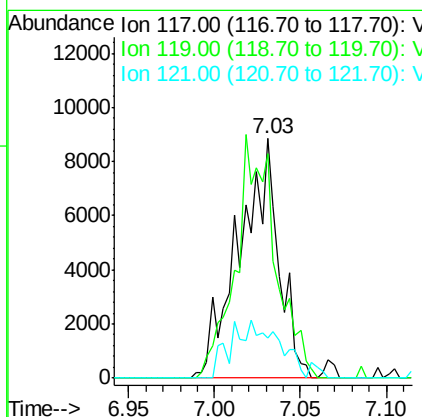
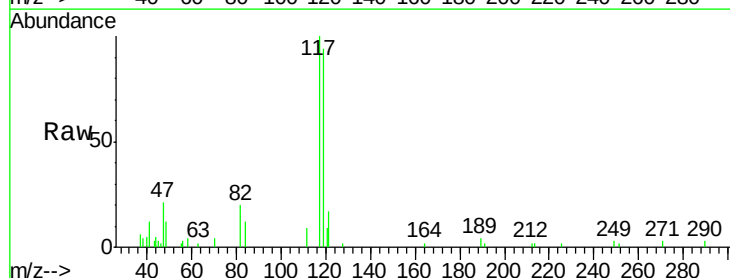
Manual Integrations
APPROVED

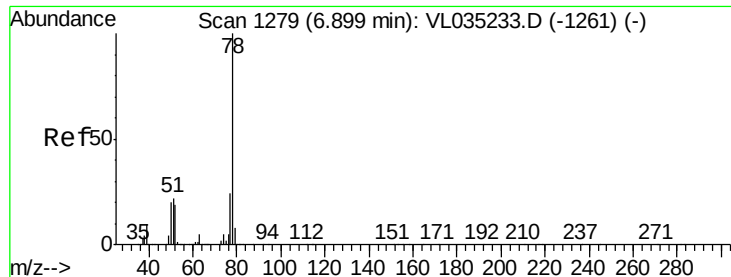
MMDadoda
7/30/2020 6:11:25 PM



#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. 0.00 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Tgt Ion	117	Resp	14488
Ion Ratio	100	Lower	Upper
117	100		
119	93.9	76.8	115.2
121	16.9	24.5	36.7#





#36

Benzene

Concen: 0.186 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL035255.D

Acq: 29 Jul 2020 20:49

Instrument :

MSVOA_L

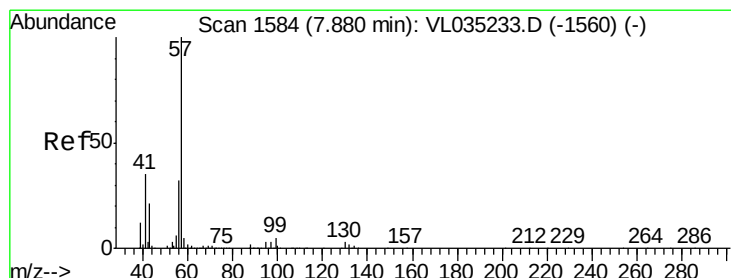
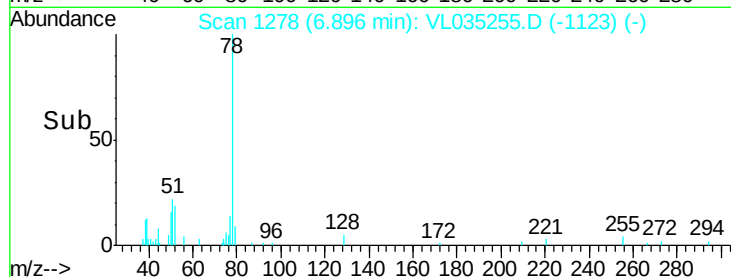
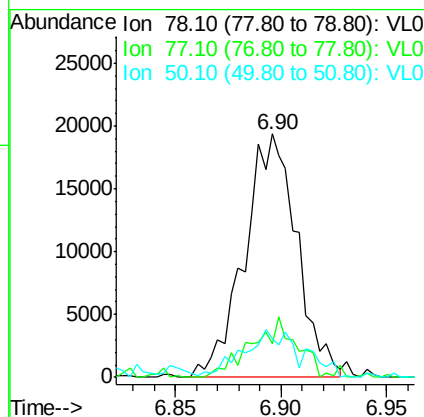
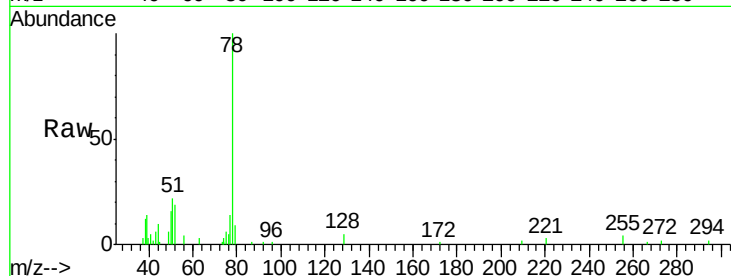
ClientSampleId :

IA2

Tot Ion:	78	Resp:	33504
Ion	Ratio	Lower	Upper
78	100		
77	14.0	18.9	28.3#
50	15.8	16.1	24.1#

Manual Integrations
APPROVED

MMDadoda
7/30/2020 6:11:25 PM



#44

2,2,4-Trimethylpentane

Concen: 0.241 ppbv m

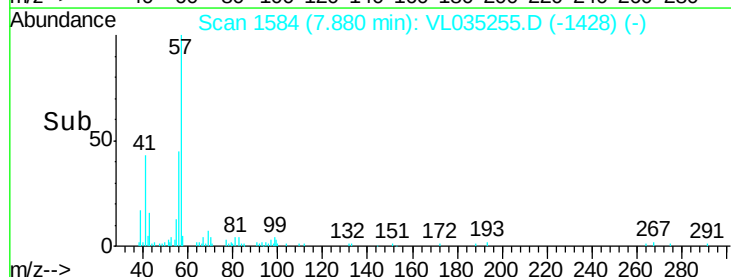
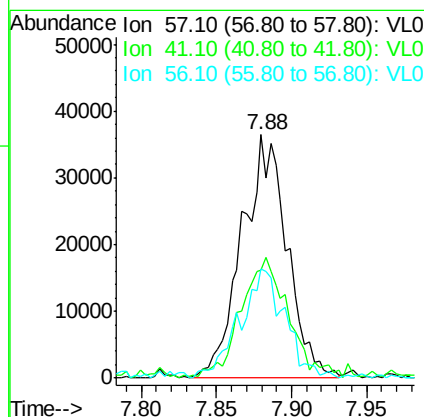
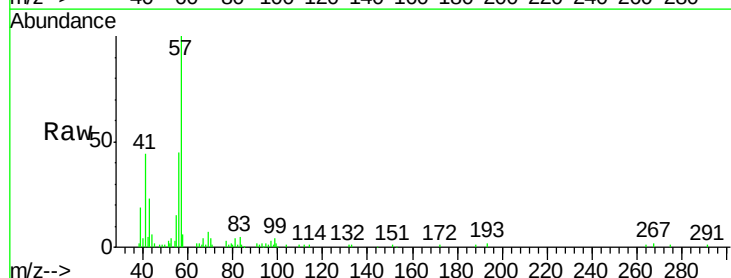
RT: 7.88 min Scan# 1584

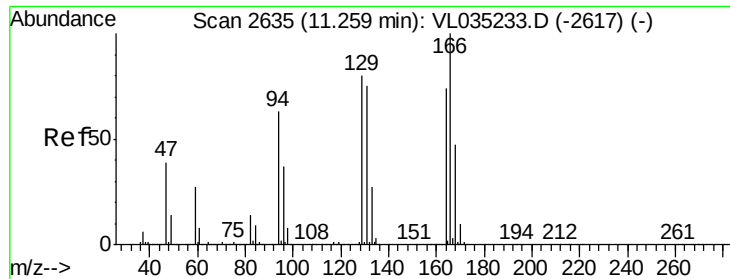
Delta R.T. 0.00 min

Lab File: VL035255.D

Acq: 29 Jul 2020 20:49

Tgt Ion:	57	Resp:	76264
Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.0	40.4#
56	45.2	25.6	38.4#





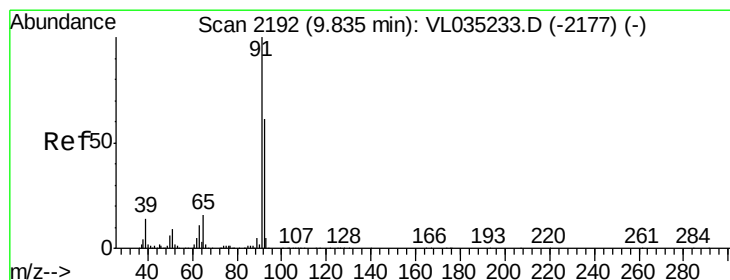
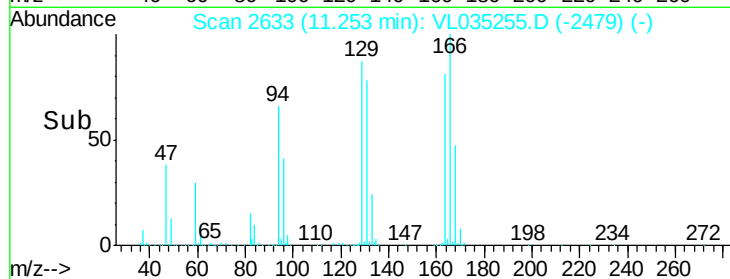
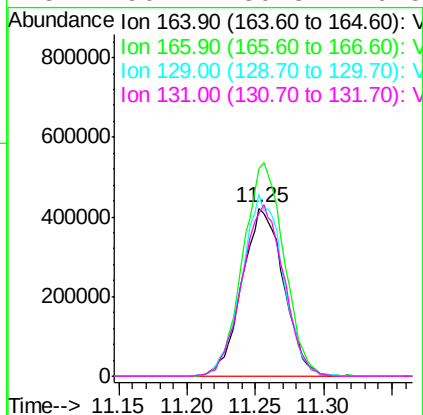
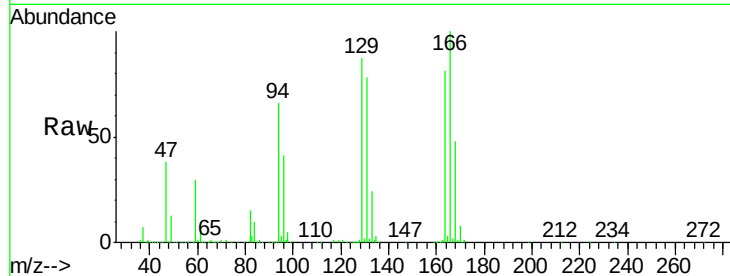
#52
Tetrachloroethene
Concen: 13.008 ppbv
RT: 11.25 min Scan# 2633
Delta R.T. -0.01 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
164	100		
166	123.5	107.5	161.3
129	107.6	86.0	129.0
131	96.4	80.3	120.5

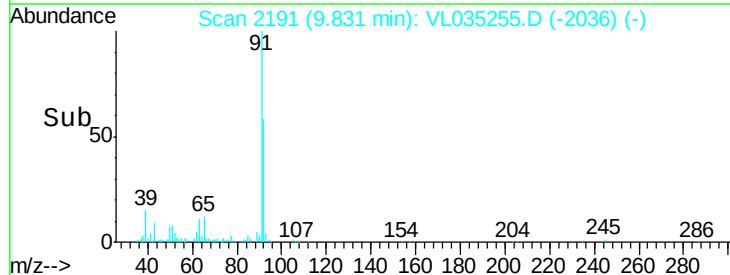
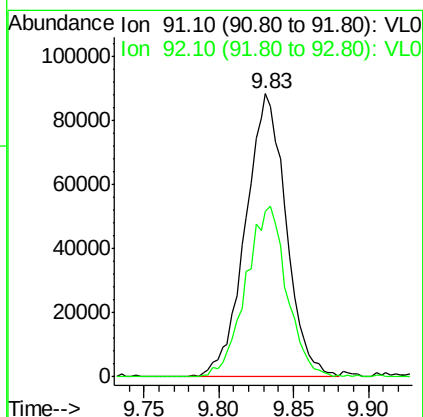
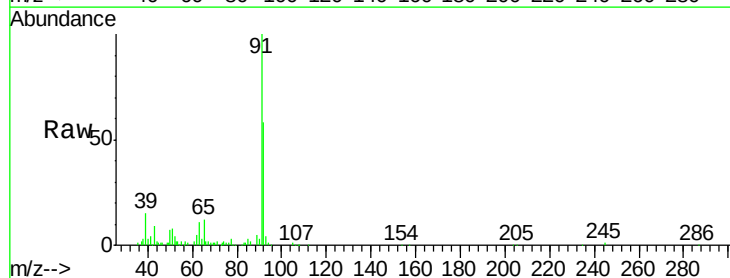
Manual Integrations
APPROVED

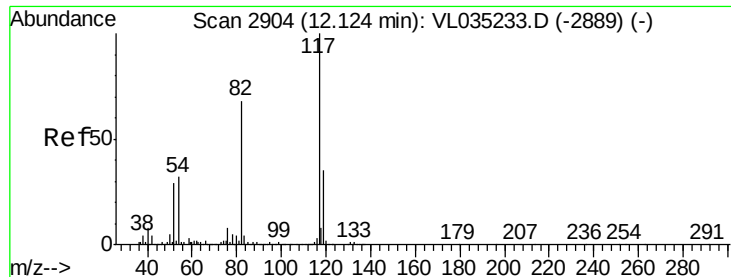
MMDadoda
7/30/2020 6:11:25 PM



#53
Toluene
Concen: 0.874 ppbv
RT: 9.83 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.5	72.7





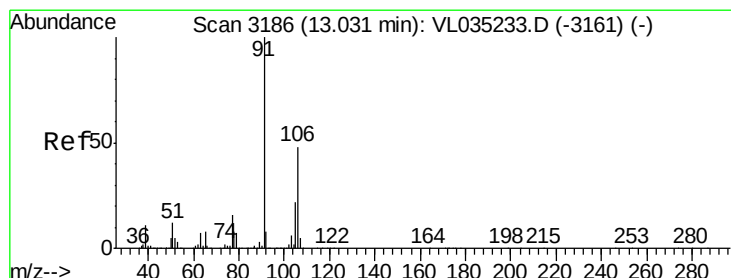
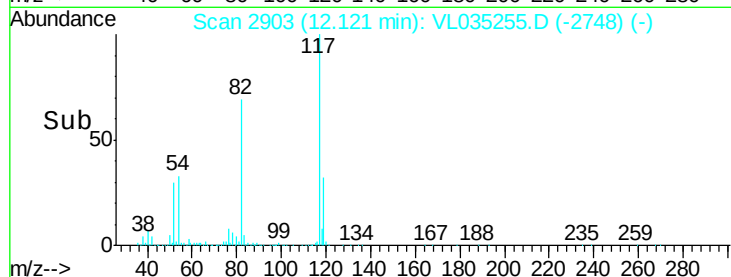
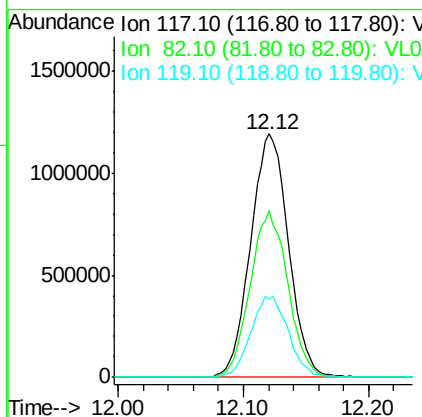
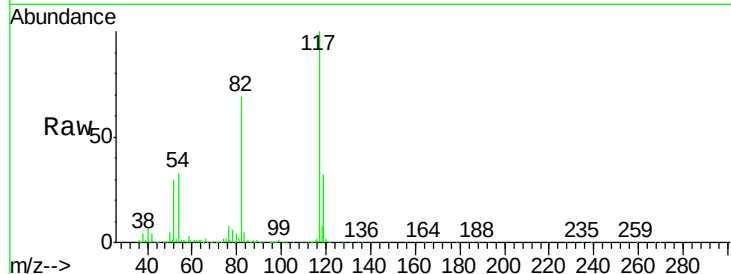
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.00 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tot Ion:117 Resp: 2499366
Ion Ratio Lower Upper
117 100
82 68.5 52.4 78.6
119 33.1 24.6 36.8

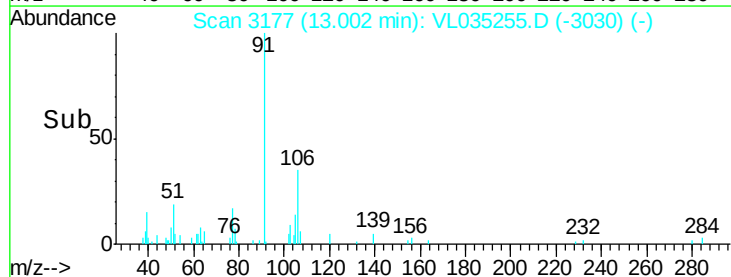
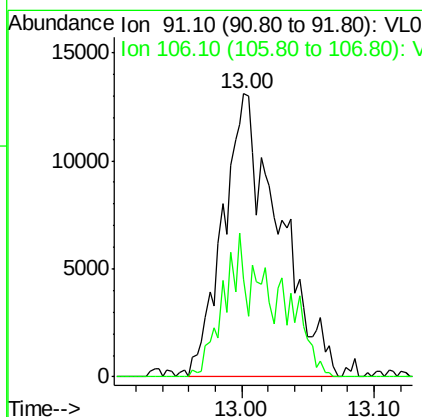
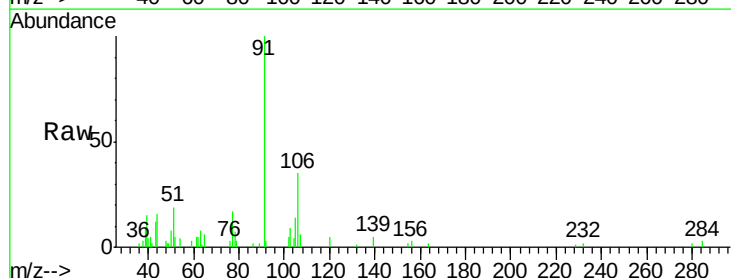
Manual Integrations
APPROVED

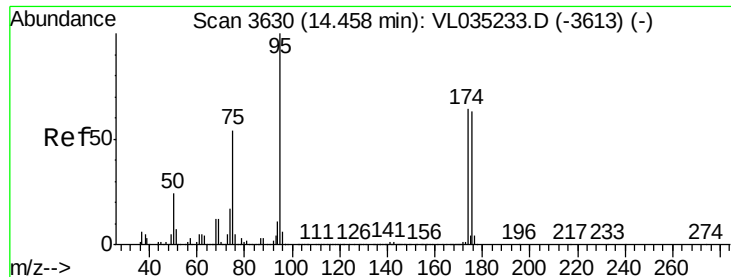
MMDadoda
7/30/2020 6:11:25 PM



#59
m/p-Xylene
Concen: 0.155 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.03 min
Lab File: VL035255.D
Acq: 29 Jul 2020 20:49

Tgt Ion: 91 Resp: 38186
Ion Ratio Lower Upper
91 100
106 0.0 37.2 55.8#





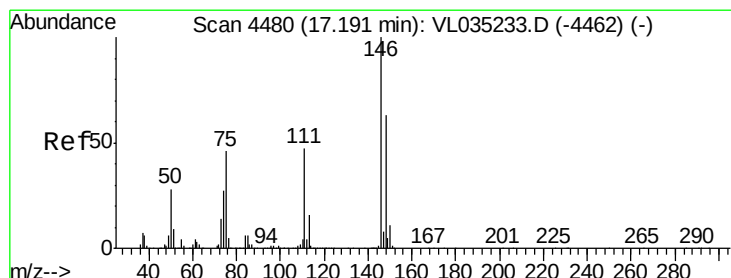
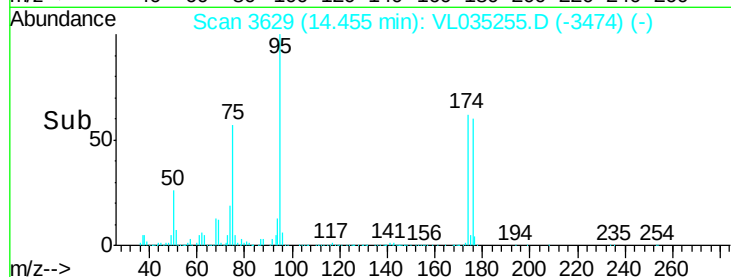
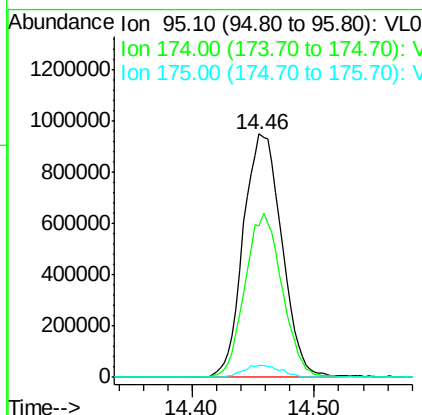
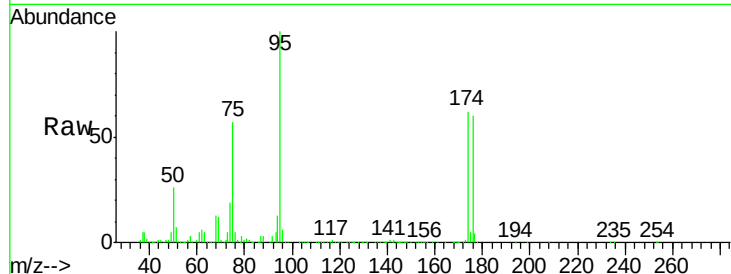
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.360 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. -0.00 min
 Lab File: VL035255.D
 Acq: 29 Jul 2020 20:49

Instrument :
 MSVOA_L
 ClientSampleID :
 IA2

Tot Ion: 95 Resp: 2069094
 Ion Ratio Lower Upper
 95 100
 174 65.3 52.7 79.1
 175 4.9 3.9 5.9

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:11:25 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.128 ppbv m
 RT: 17.18 min Scan# 4476
 Delta R.T. -0.01 min
 Lab File: VL035255.D
 Acq: 29 Jul 2020 20:49

Tgt Ion: 146 Resp: 23572
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.4 70.2#
 148 69.0 32.2 96.6

