

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036093.D
 Acq On : 8 Dec 2020 9:40
 Operator : SY/AP
 Sample : L4949-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

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 12/11/2020 5:45:35 PM

Quant Time: Dec 08 21:39:53 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	1248005	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2601090	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	2351376	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	1983227	10.62	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	45019m	0.310	ppbv	
3) Chlorodifluoromethane	2.99	51	54908	0.386	ppbv	92
4) Chloromethane	3.14	50	38523m	0.551	ppbv	
9) Propene	3.02	41	52825	0.741	ppbv #	82
10) Heptane	8.14	43	54462	0.299	ppbv	96
11) Trichlorofluoromethane	3.96	101	38348	0.224	ppbv	98
13) Ethanol	3.62	45	110667m	11.254	ppbv	
15) Acetone	3.85	43	1448980	9.660	ppbv	96
19) Isopropyl Alcohol	3.99	45	72123m	0.787	ppbv	
20) Methylene Chloride	4.35	84	103915	1.691	ppbv	93
26) Hexane	5.70	57	243841m	1.808	ppbv	
30) Cyclohexane	7.14	84	18000m	0.182	ppbv	
34) 2-Butanone	5.27	43	116377	0.675	ppbv	96
35) Carbon Tetrachloride	7.02	117	10026m	0.066	ppbv	
36) Benzene	6.91	78	57119m	0.259	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	69093m	0.173	ppbv	
53) Toluene	9.82	91	1149703	4.645	ppbv	98
58) Ethyl Benzene	12.73	91	395430m	1.227	ppbv	
59) m/p-Xylene	12.99	91	1060169	3.906	ppbv	99
60) o-Xylene	13.71	91	327912m	1.282	ppbv	
61) Styrene	13.55	104	98873m	0.602	ppbv	
72) 4-Ethyltoluene	15.86	105	34638	0.125	ppbv #	87
73) 1,3,5-Trimethylbenzene	16.02	105	37751m	0.143	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	117913	0.444	ppbv #	62

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

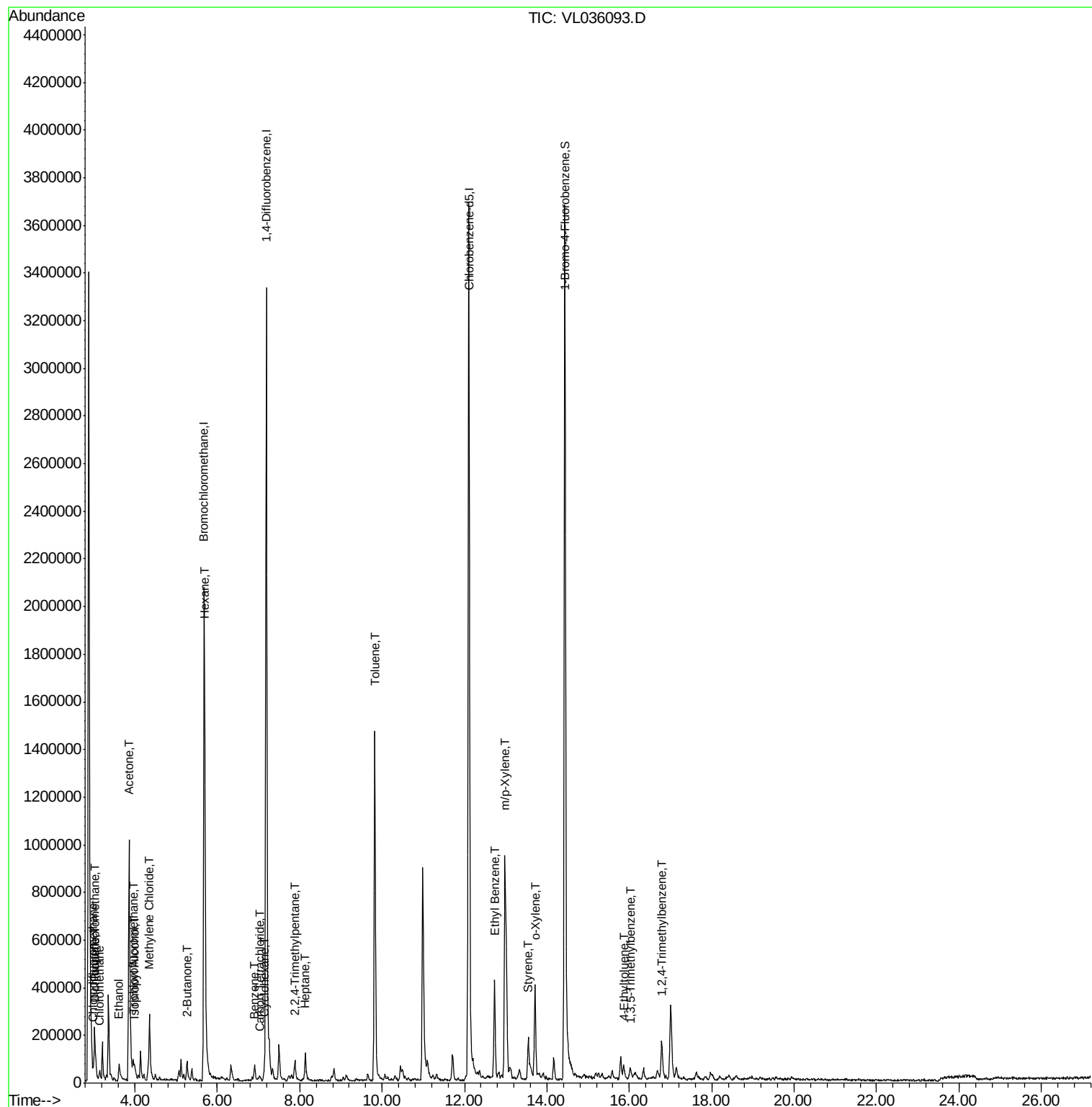
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120720\
Data File : VL036093.D
Acq On : 8 Dec 2020 9:40
Operator : SY/AP
Sample : L4949-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

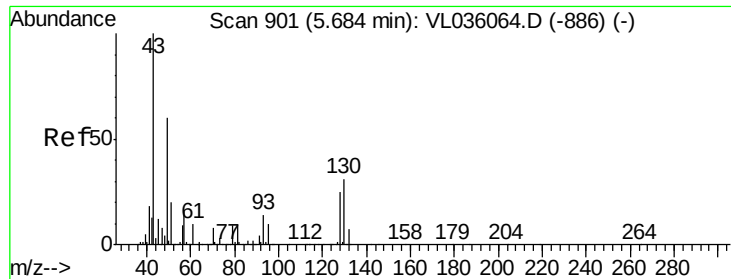
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
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Quant Time: Dec 08 21:39:53 2020
Quant Method : Z:\V0ASRV\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: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036093.D

Acq: 8 Dec 2020 9:40

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 49 Resp: 1248005

Ion Ratio Lower Upper

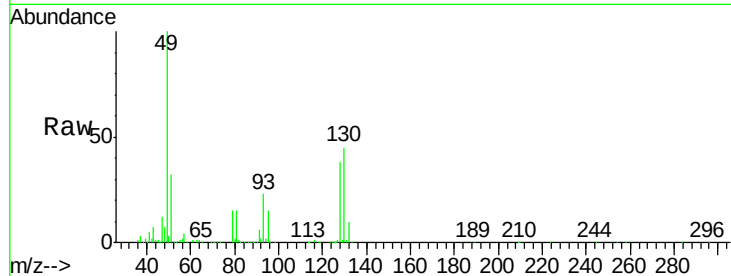
49 100

128 37.4 21.1 63.1

130 46.4 27.1 81.3

Manual Integrations
APPROVED

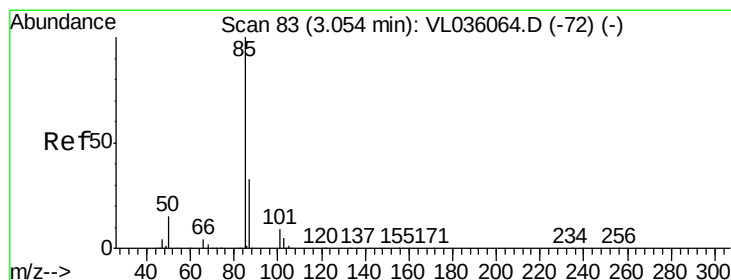
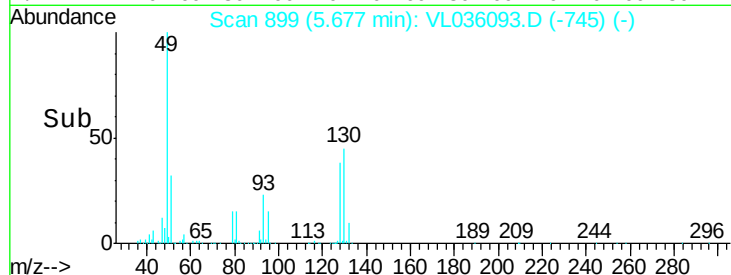
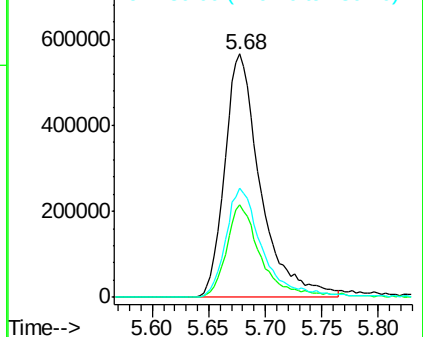
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.310 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL036093.D

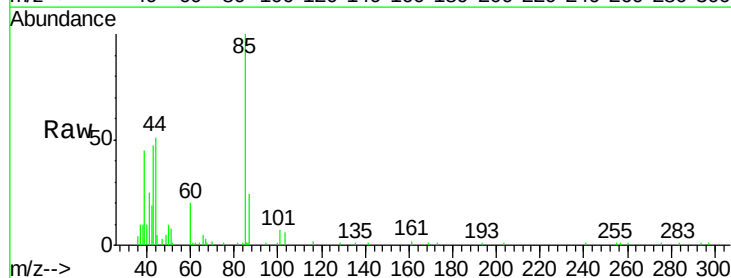
Acq: 8 Dec 2020 9:40

Tgt Ion: 85 Resp: 45019

Ion Ratio Lower Upper

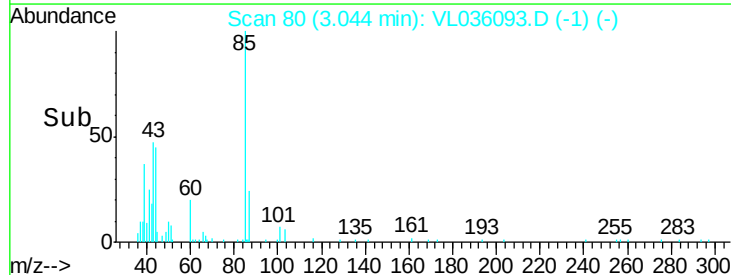
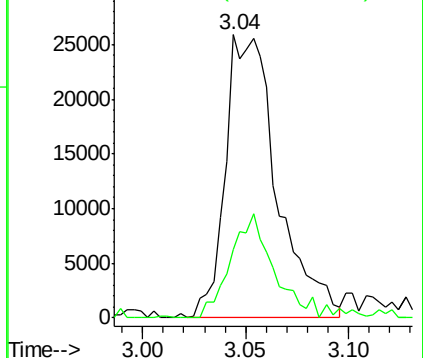
85 100

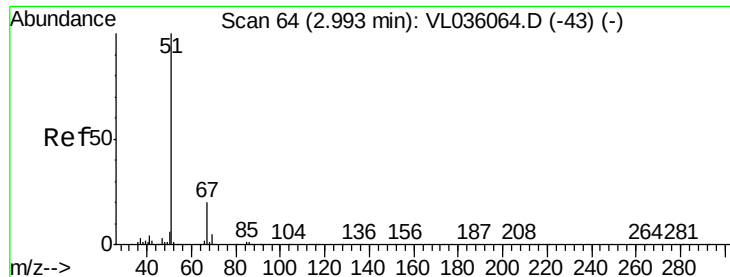
87 24.2 26.5 39.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

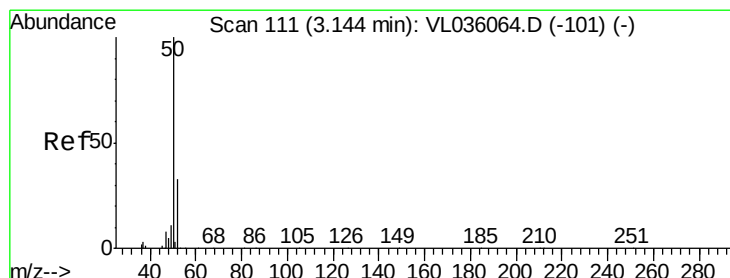
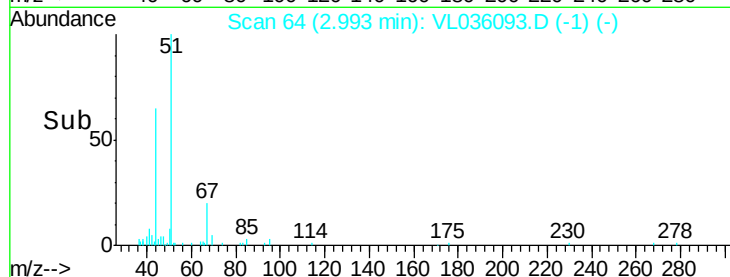
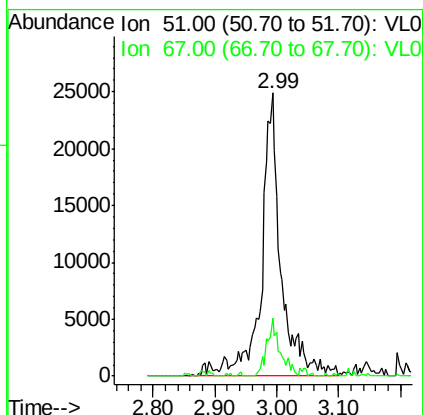
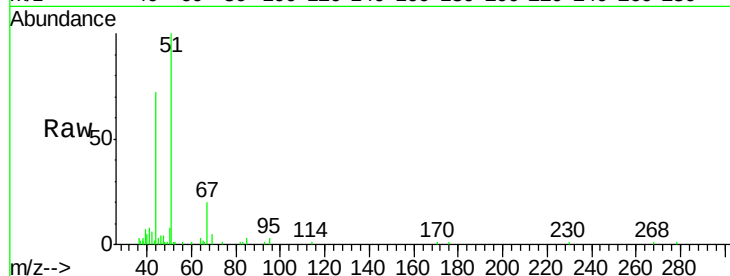
Chlorodifluoromethane
Concen: 0.386 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.00 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	14.5	14.3	21.5

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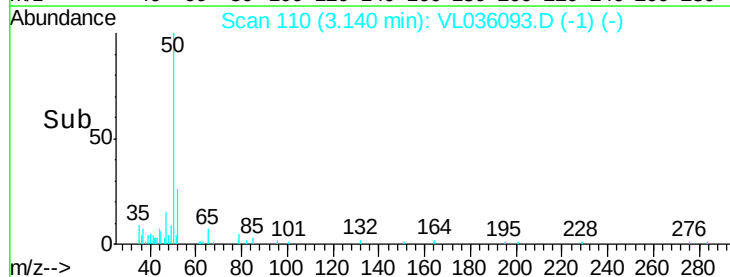
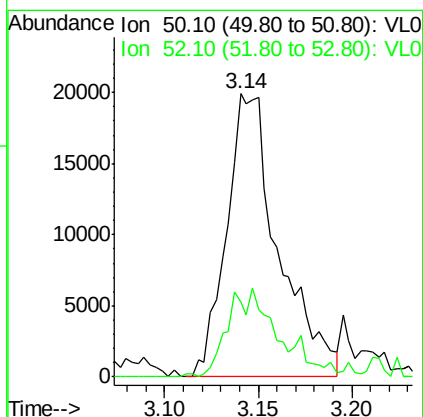
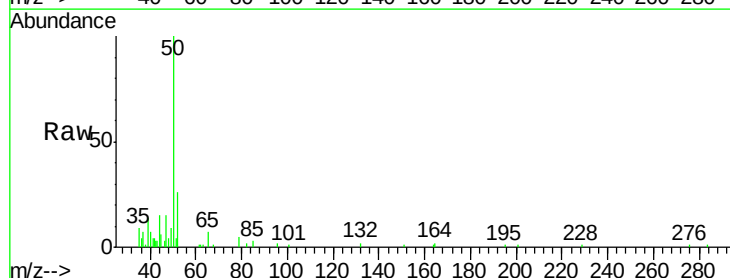
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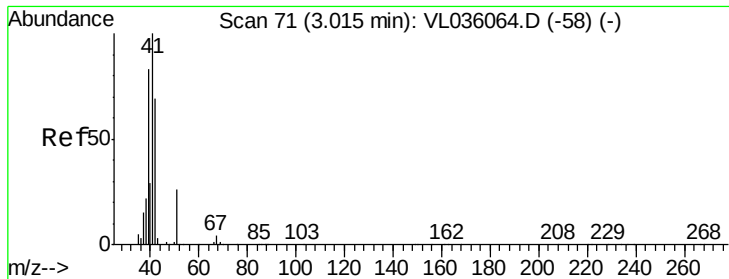


#4

Chloromethane
Concen: 0.551 ppbv m
RT: 3.14 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tgt Ion	Ratio	Lower	Upper
50	100		
52	26.3	26.1	39.1





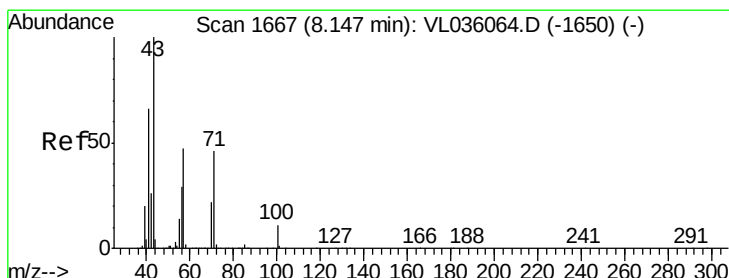
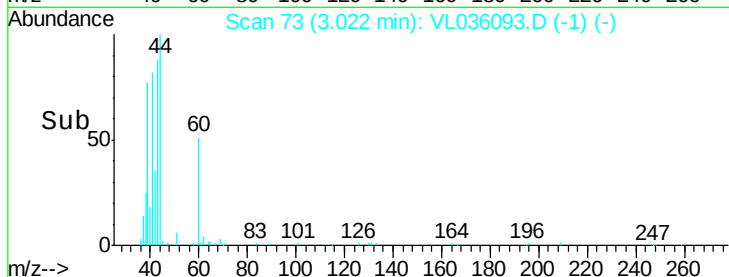
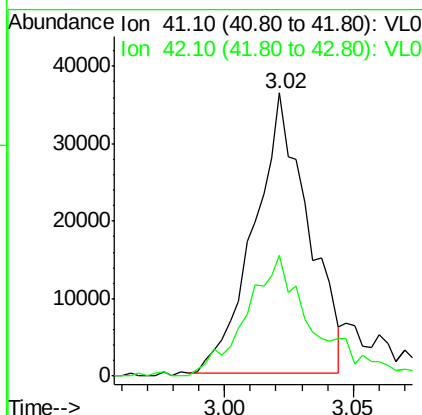
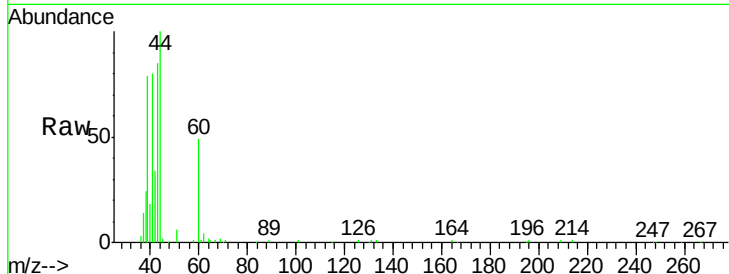
#9
 Propene
 Concen: 0.741 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. 0.01 min
 Lab File: VL036093.D
 Acq: 8 Dec 2020 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tot Ion: 41 Resp: 52825
 Ion Ratio Lower Upper
 41 100
 42 56.2 57.0 85.6#

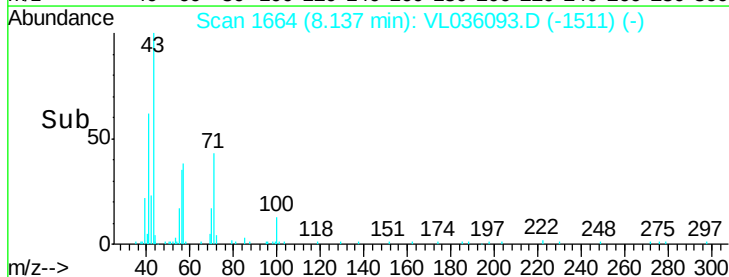
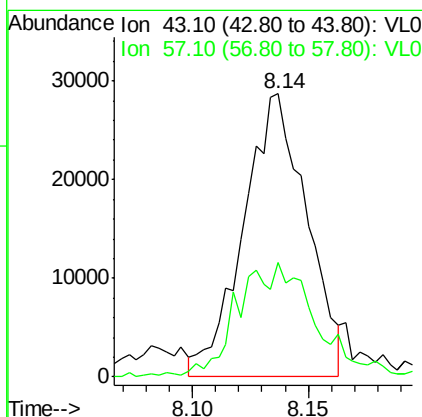
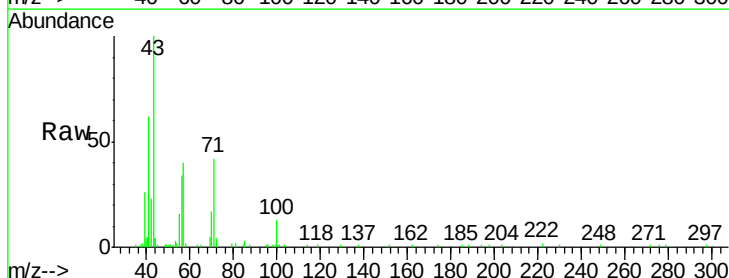
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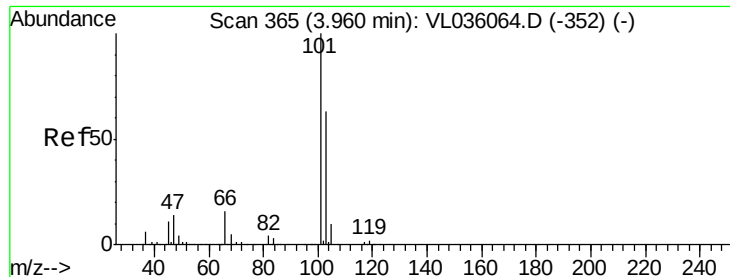
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#10
 Heptane
 Concen: 0.299 ppbv
 RT: 8.14 min Scan# 1664
 Delta R.T. -0.01 min
 Lab File: VL036093.D
 Acq: 8 Dec 2020 9:40

Tgt Ion: 43 Resp: 54462
 Ion Ratio Lower Upper
 43 100
 57 50.3 37.9 56.9





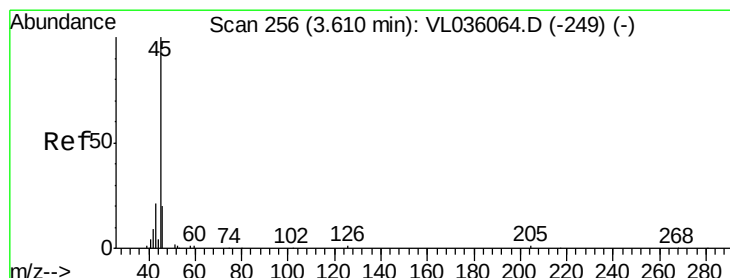
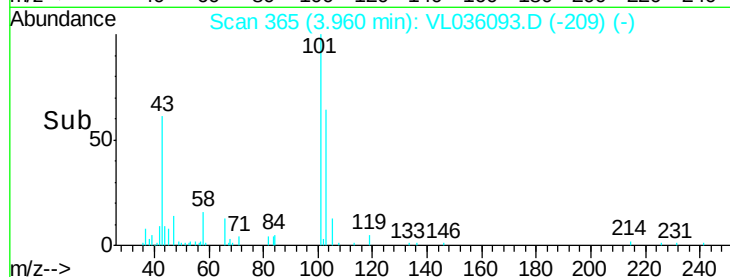
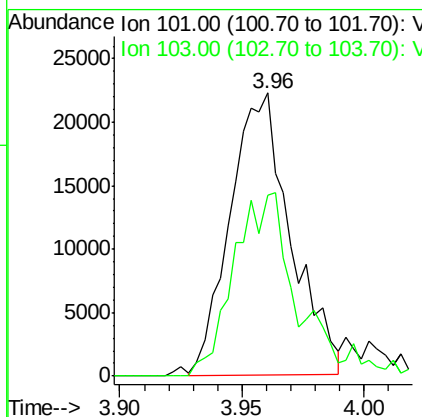
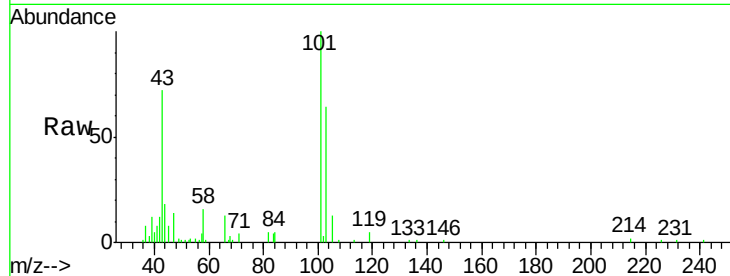
#11
 Trichlorofluoromethane
 Concen: 0.224 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VL036093.D
 Acq: 8 Dec 2020 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tot Ion:101 Resp: 38348
 Ion Ratio Lower Upper
 101 100
 103 64.7 50.3 75.5

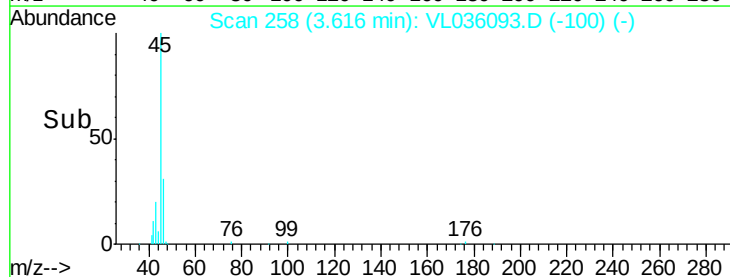
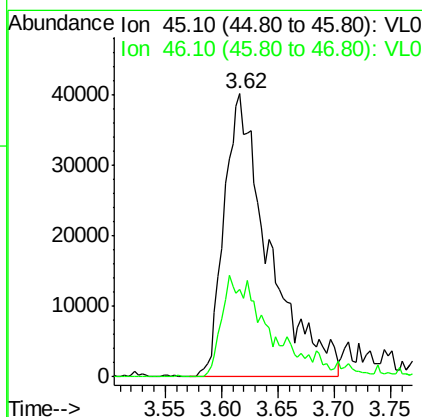
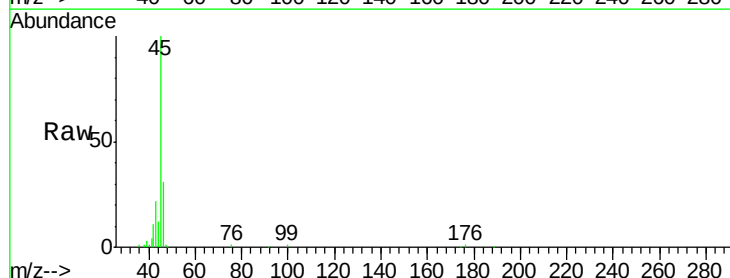
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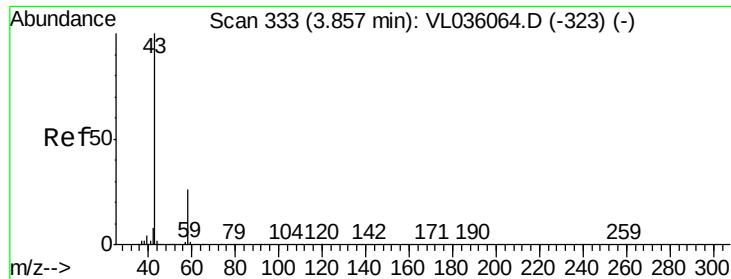
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#13
 Ethanol
 Concen: 11.254 ppbv m
 RT: 3.62 min Scan# 258
 Delta R.T. 0.01 min
 Lab File: VL036093.D
 Acq: 8 Dec 2020 9:40

Tgt Ion: 45 Resp: 110667
 Ion Ratio Lower Upper
 45 100
 46 40.6 19.0 75.8





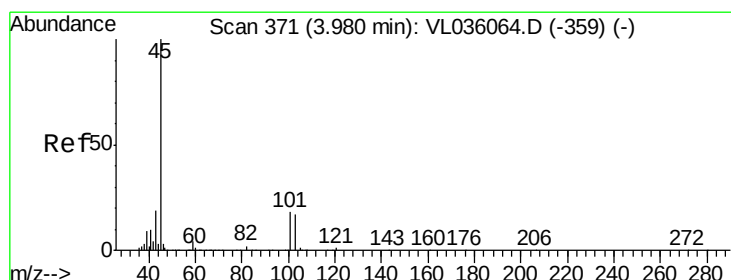
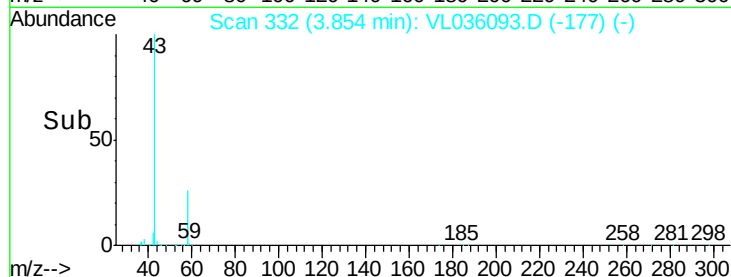
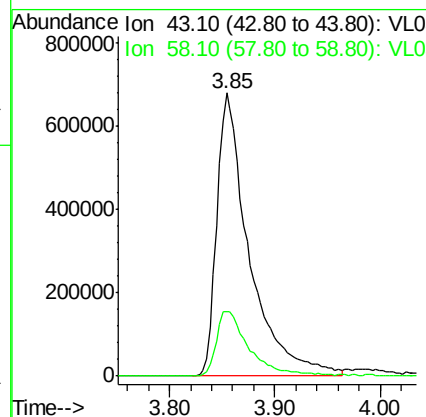
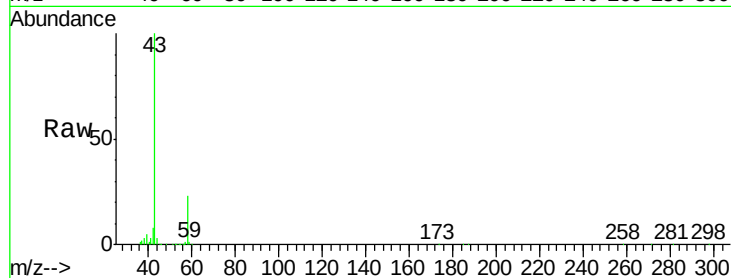
#15
Acetone
Concen: 9.660 ppbv
RT: 3.85 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion: 43 Resp: 1448980
Ion Ratio Lower Upper
43 100
58 23.9 20.9 31.3

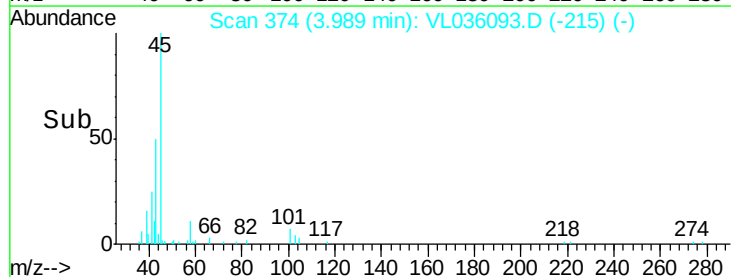
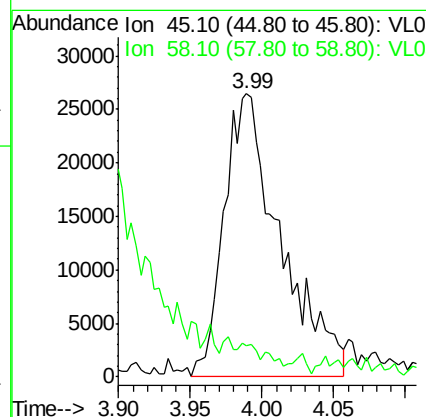
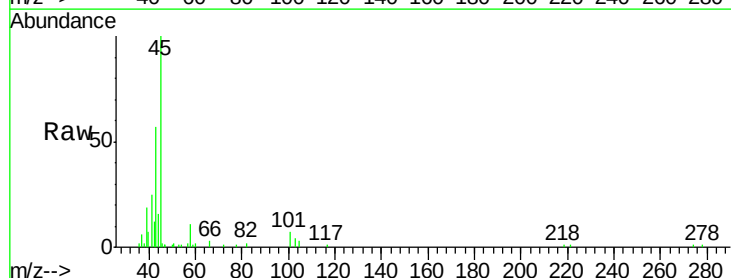
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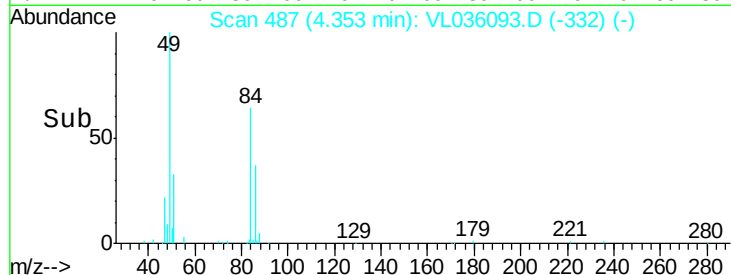
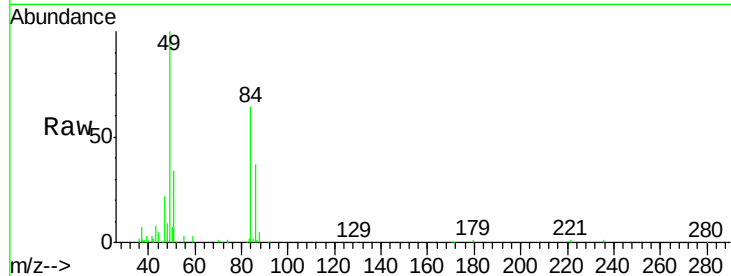
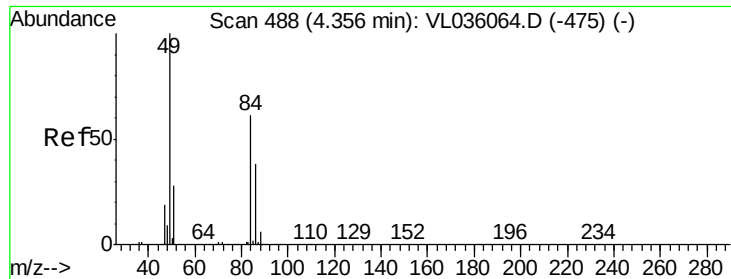
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#19
Isopropyl Alcohol
Concen: 0.787 ppbv m
RT: 3.99 min Scan# 374
Delta R.T. 0.01 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tgt Ion: 45 Resp: 72123
Ion Ratio Lower Upper
45 100
58 0.0 0.0 0.0





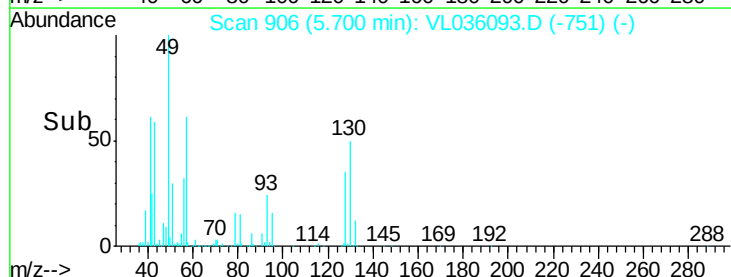
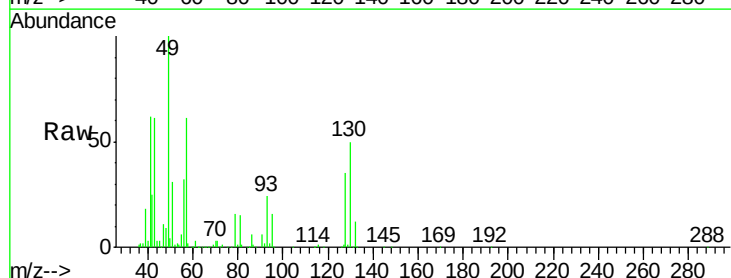
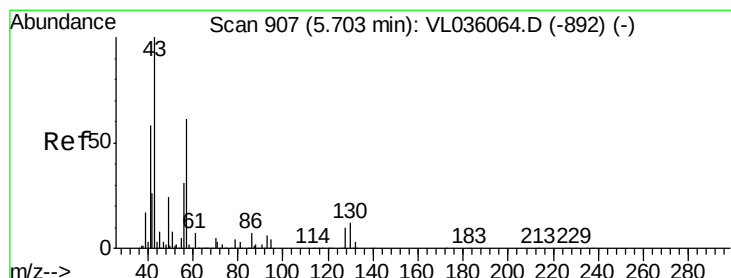
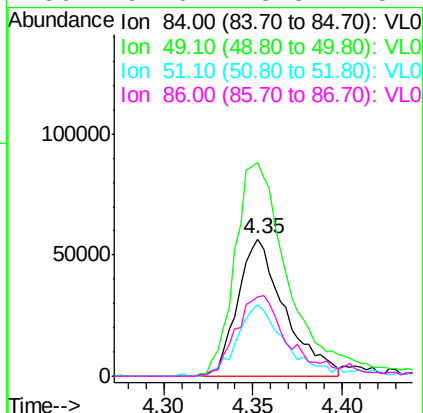
#20
Methylene Chloride
Concen: 1.691 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tot Ion	84	Resp	103915
Ion Ratio	Lower	Upper	
84	100		
49	155.5	133.0	199.4
51	51.9	38.9	58.3
86	57.6	48.8	73.2

Instrument :
MSVOA_L
ClientSampled :
AA-1

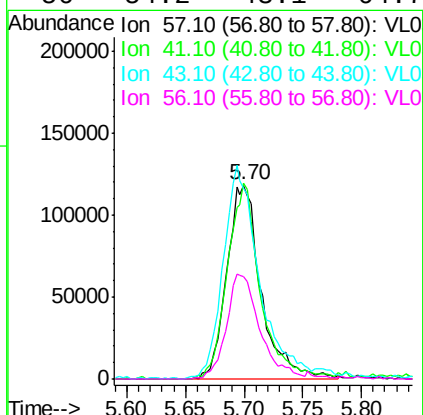
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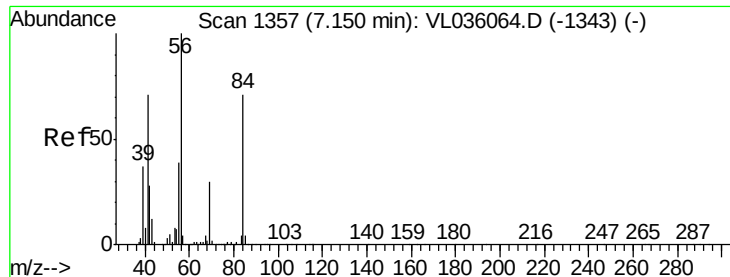
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#26
Hexane
Concen: 1.808 ppbv m
RT: 5.70 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tgt Ion	57	Resp	243841
Ion Ratio	Lower	Upper	
57	100		
41	0.0	82.9	124.3#
43	118.1	199.9	299.9#
56	54.2	43.1	64.7





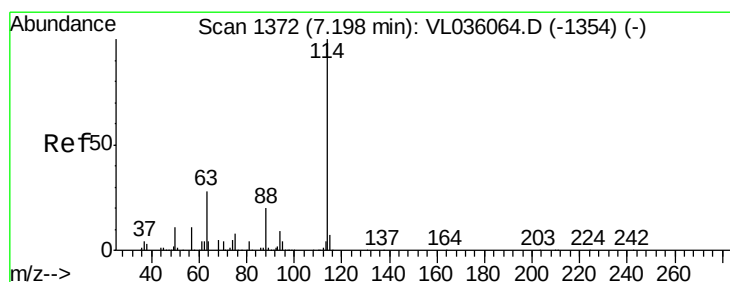
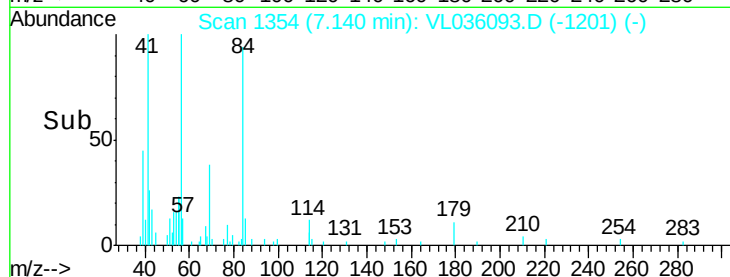
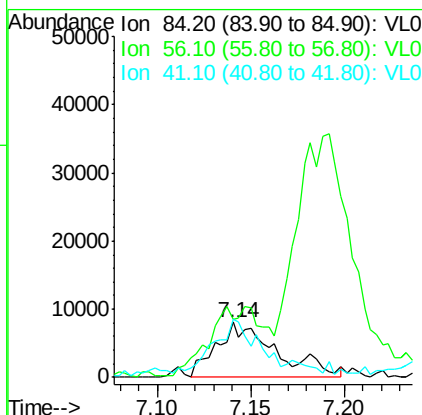
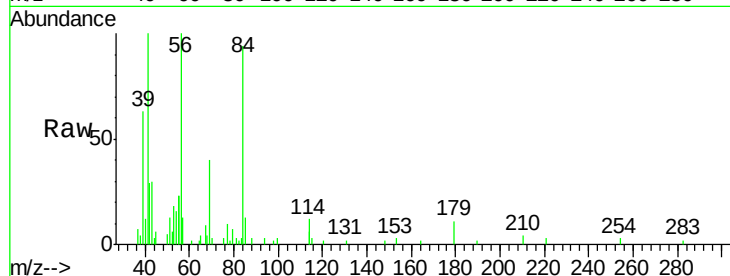
#30
Cyclohexane
Concen: 0.182 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	128.0	192.0#
41	96.4	81.3	121.9

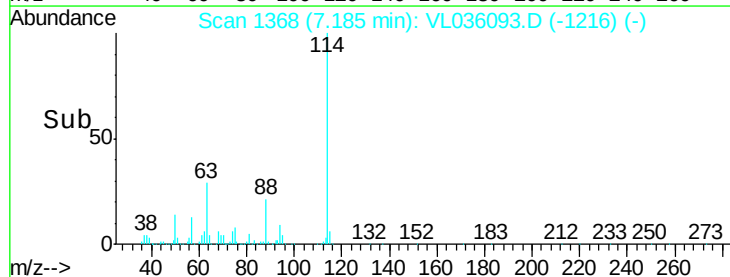
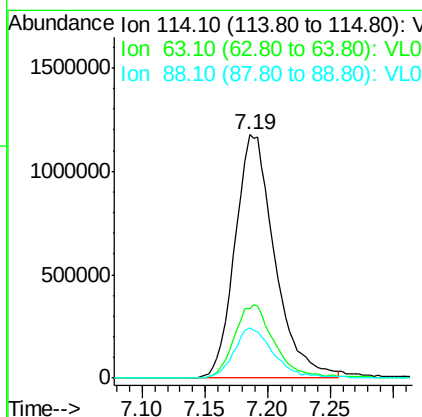
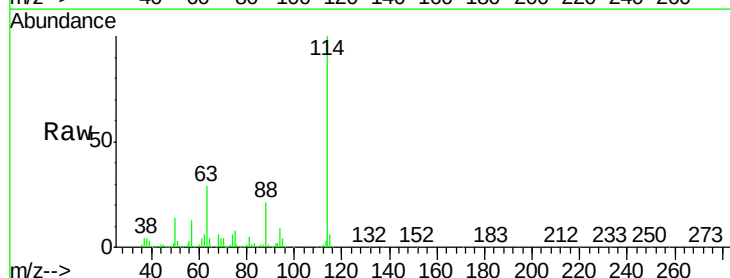
Manual Integrations
APPROVED

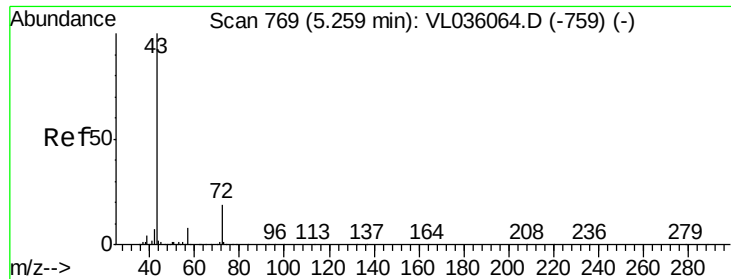
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.6	23.6	35.4
88	20.8	15.8	23.6





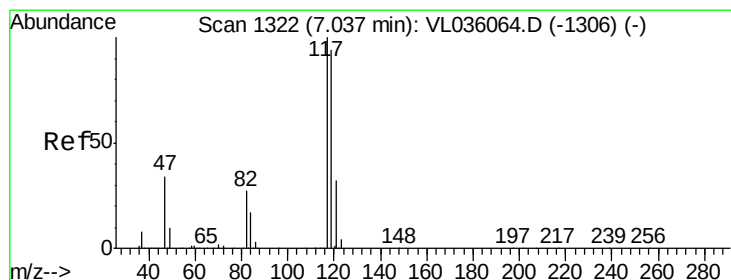
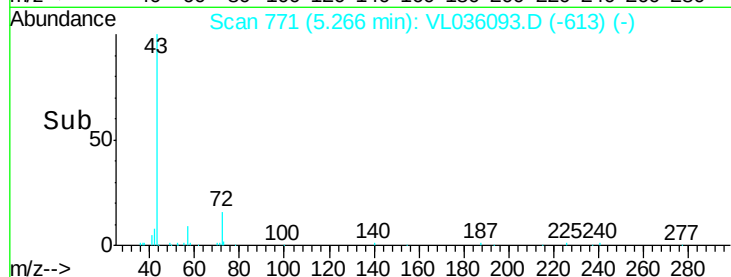
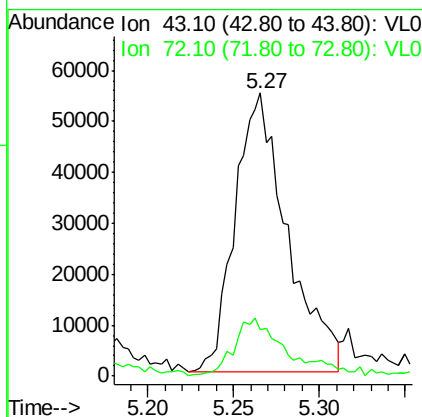
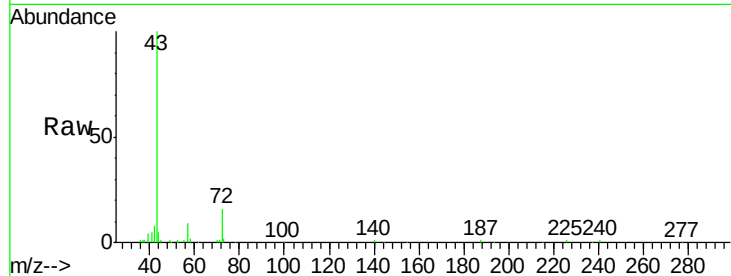
#34
2-Butanone
Concen: 0.675 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.01 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	43	Resp	116377
Ion Ratio	43	100	Lower Upper
	72	22.5	16.5 24.7

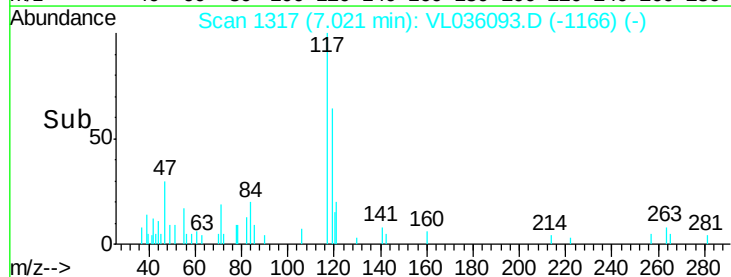
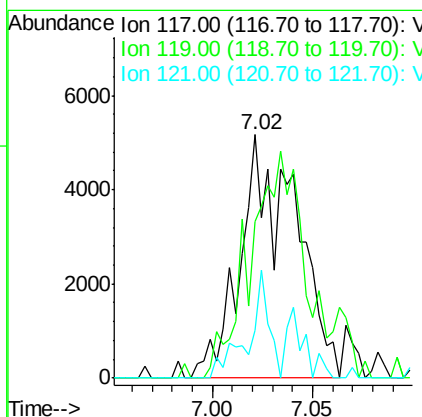
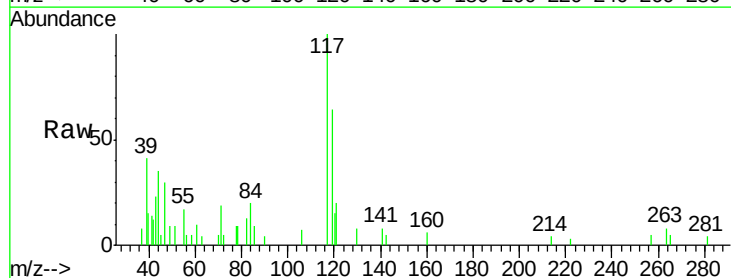
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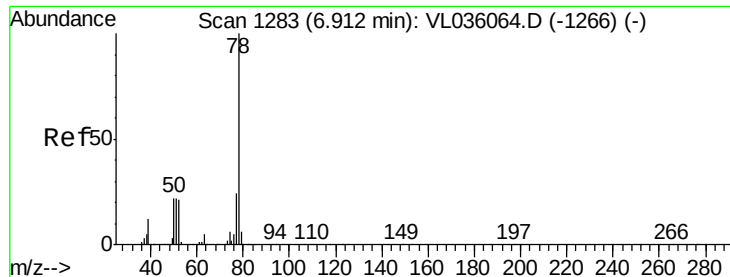
MMDadoda
12/11/2020 5:45:35 PM



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. -0.02 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tgt Ion	117	Resp	10026
Ion Ratio	117	100	Lower Upper
	119	64.2	75.1 112.7#
	121	19.6	25.6 38.4#





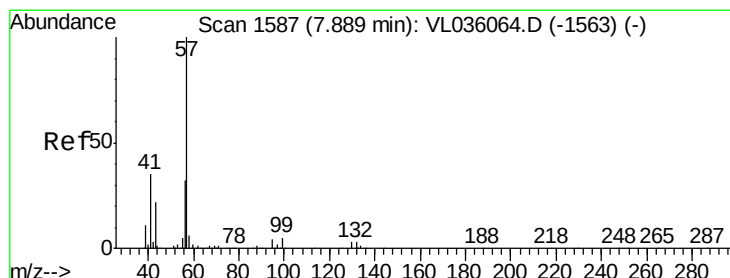
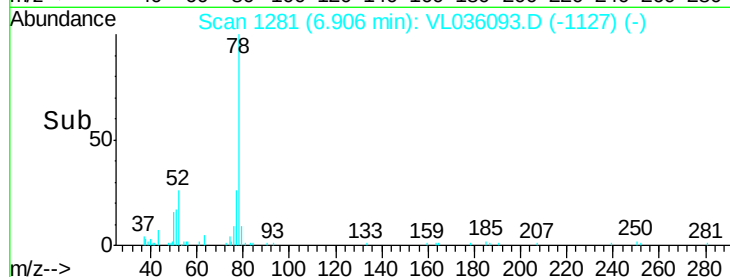
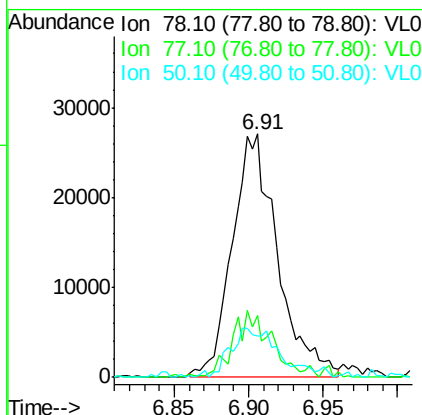
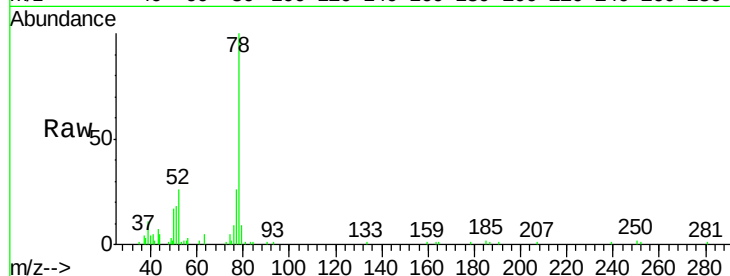
#36
Benzene
Concen: 0.259 ppbv m
RT: 6.91 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	25.5	19.4	29.2
50	16.8	17.8	26.8#

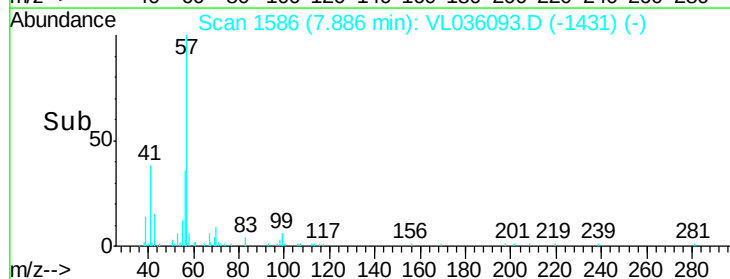
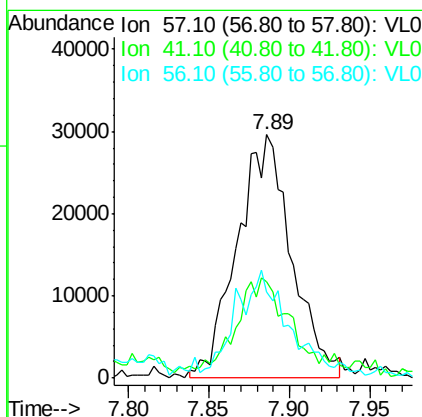
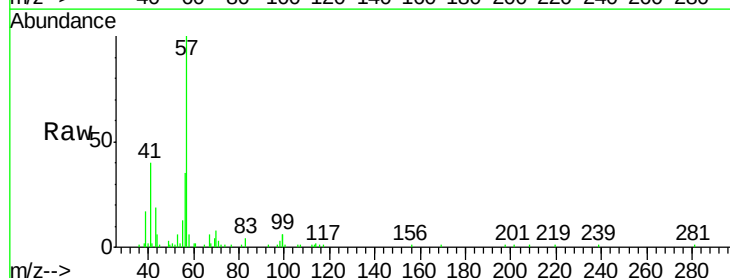
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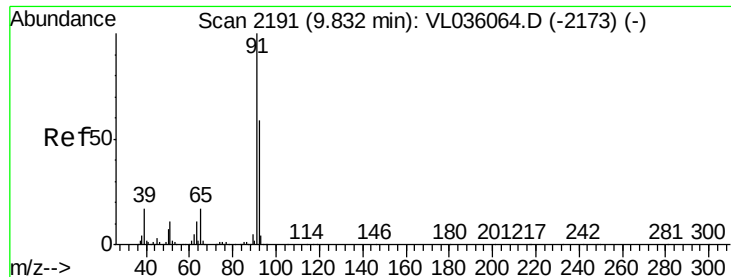
MMDadoda
12/11/2020 5:45:35 PM



#44
2,2,4-Trimethylpentane
Concen: 0.173 ppbv m
RT: 7.89 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.9	43.3#
56	0.0	25.3	37.9#





#53

Toluene

Concen: 4.645 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL036093.D

Acq: 8 Dec 2020 9:40

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 91 Resp: 1149703

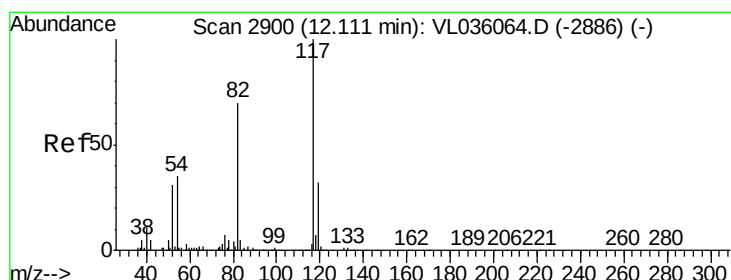
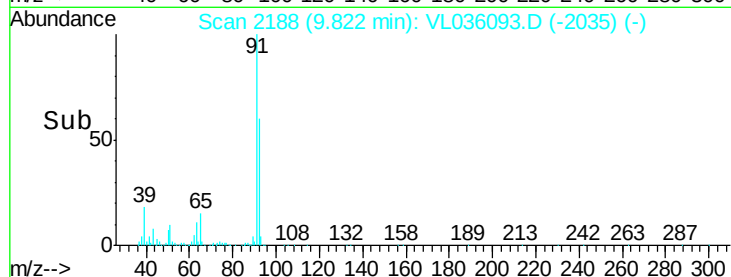
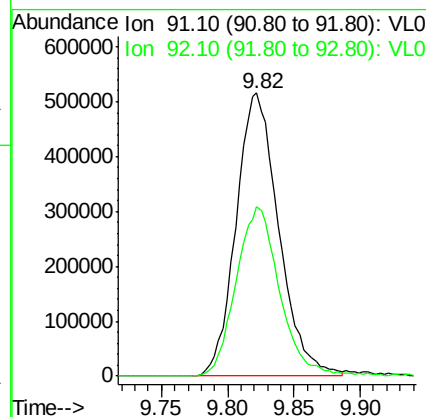
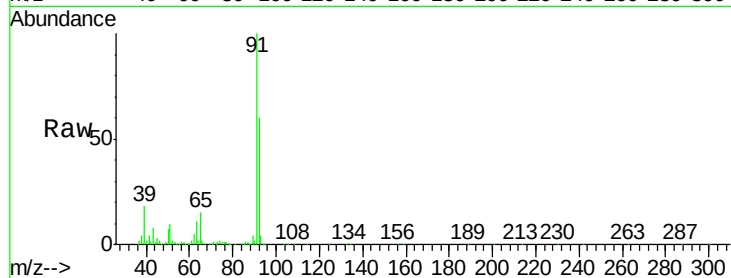
Ion Ratio Lower Upper

91 100

92 61.8 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL036093.D

Acq: 8 Dec 2020 9:40

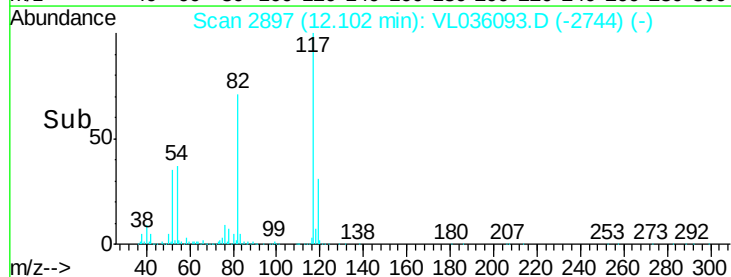
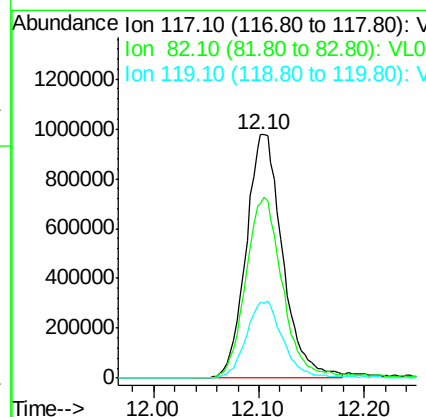
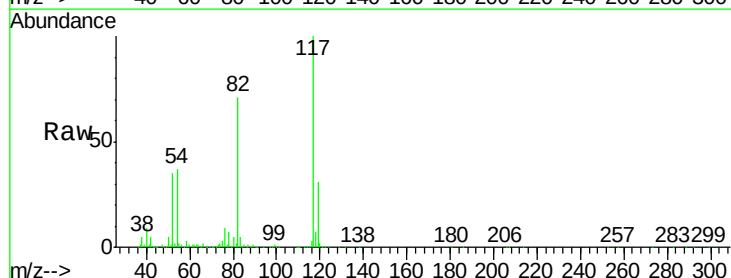
Tgt Ion: 117 Resp: 2351376

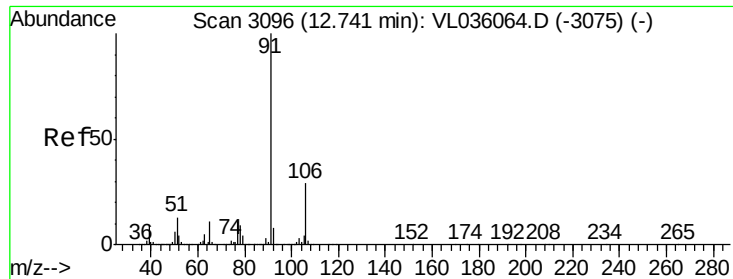
Ion Ratio Lower Upper

117 100

82 77.1 0.0 0.0#

119 32.3 0.0 0.0#





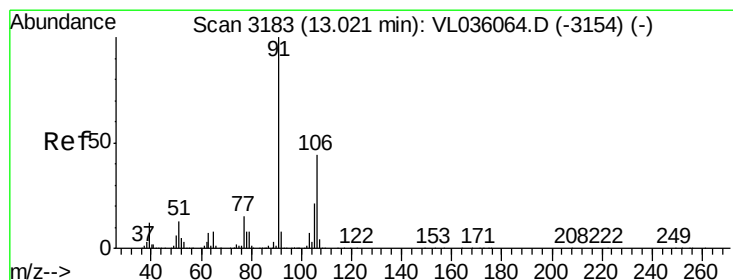
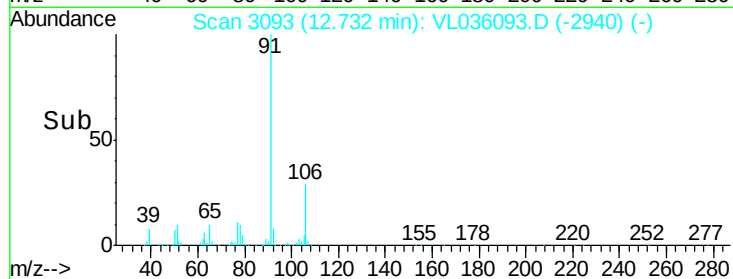
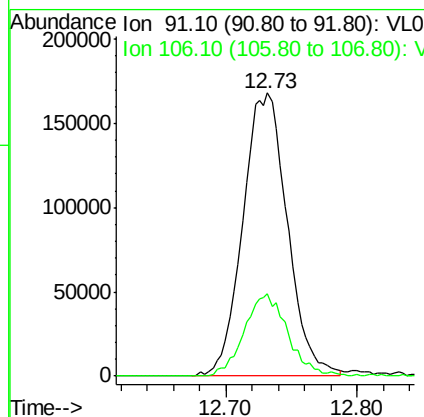
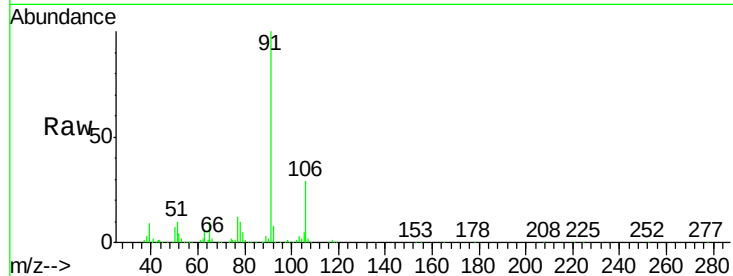
#58
Ethyl Benzene
Concen: 1.227 ppbv m
RT: 12.73 min Scan# 3093
Delta R.T. -0.01 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion: 91 Resp: 395430
Ion Ratio Lower Upper
91 100
106 29.0 23.0 34.4

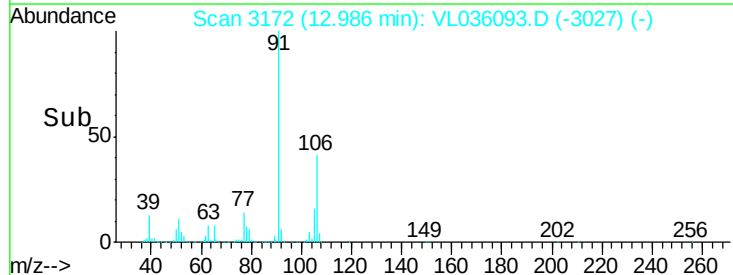
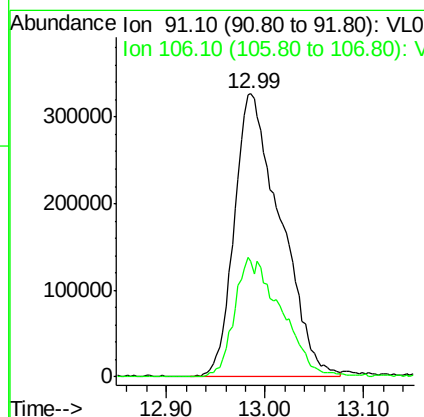
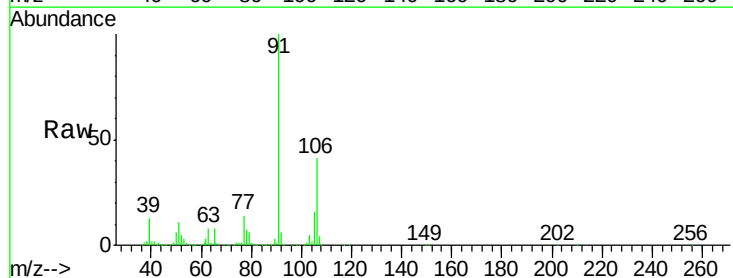
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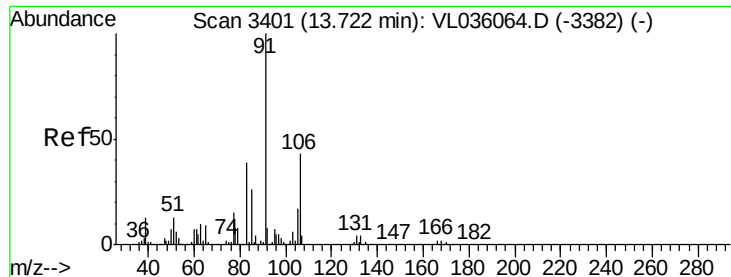
MMDadoda
12/11/2020 5:45:35 PM



#59
m/p-Xylene
Concen: 3.906 ppbv
RT: 12.99 min Scan# 3172
Delta R.T. -0.04 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tgt Ion: 91 Resp: 1060169
Ion Ratio Lower Upper
91 100
106 42.6 33.6 50.4





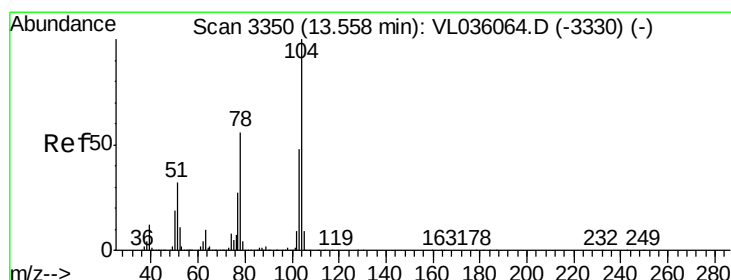
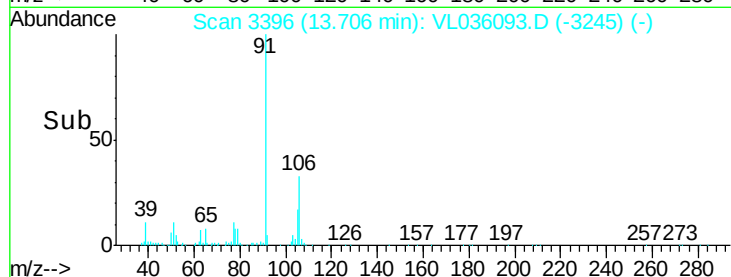
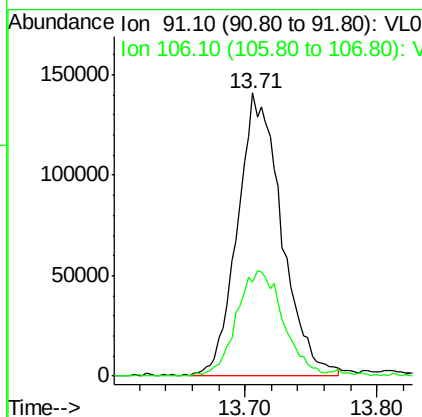
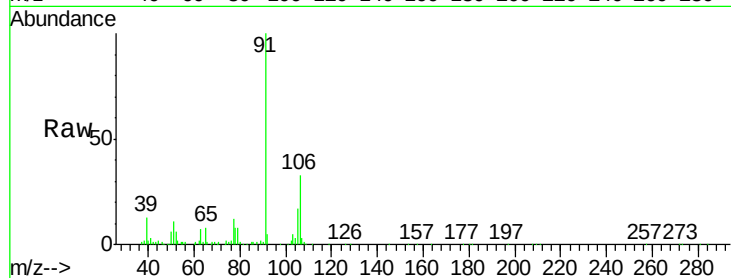
#60
o-Xylene
Concen: 1.282 ppbv m
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion: 91 Resp: 327912
Ion Ratio Lower Upper
91 100
106 40.7 21.6 64.6

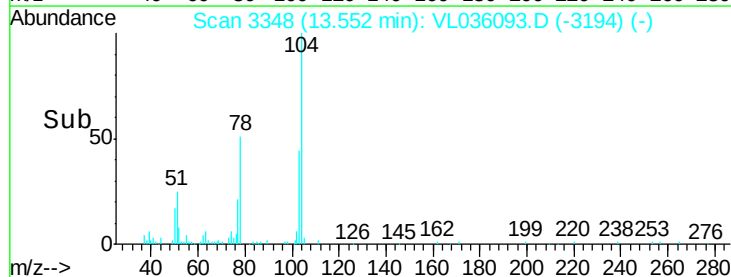
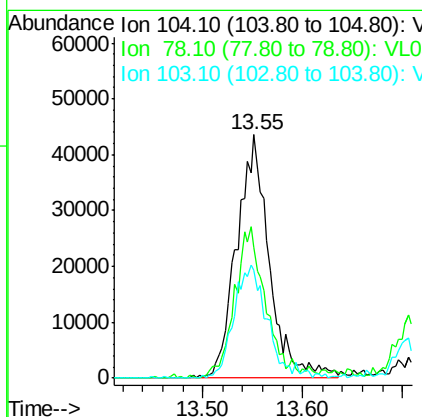
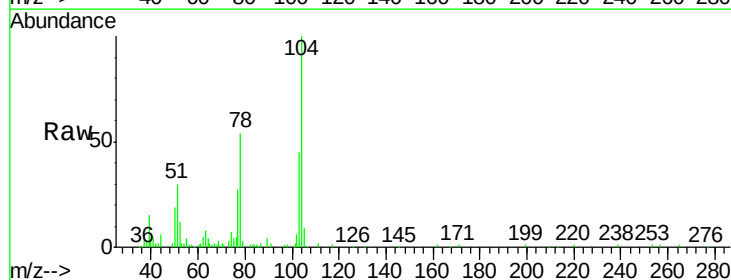
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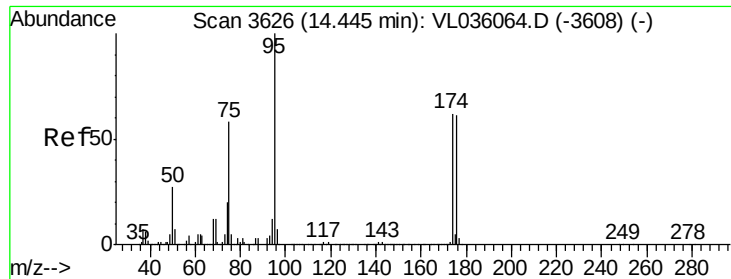
MMDadoda
12/11/2020 5:45:35 PM



#61
Styrene
Concen: 0.602 ppbv m
RT: 13.55 min Scan# 3348
Delta R.T. -0.01 min
Lab File: VL036093.D
Acq: 8 Dec 2020 9:40

Tgt Ion: 104 Resp: 98873
Ion Ratio Lower Upper
104 100
78 59.7 45.8 68.8
103 48.3 38.6 57.8





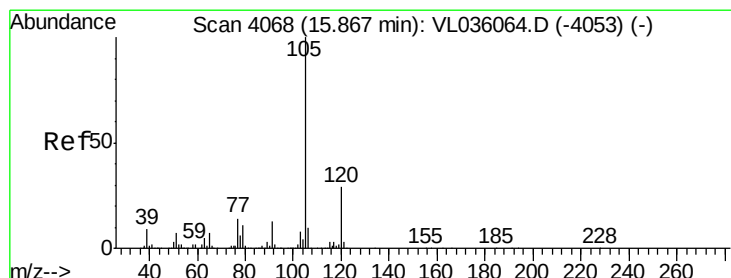
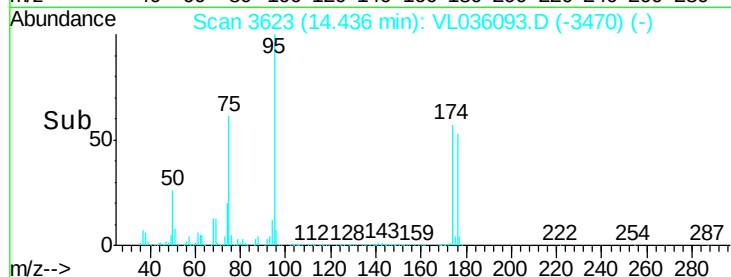
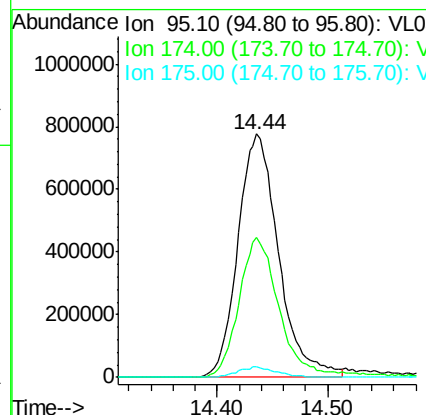
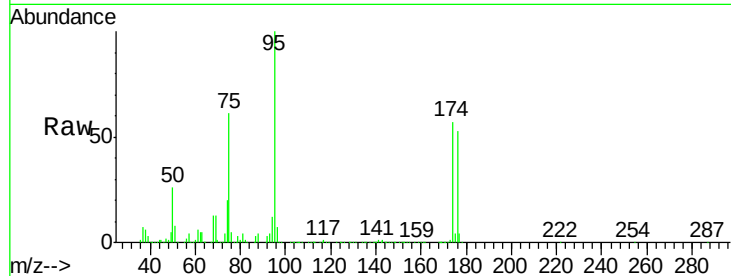
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.622 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.01 min
 Lab File: VL036093.D
 Acq: 8 Dec 2020 9:40

Instrument :
 MSVOA_L
 ClientSampled :
 AA-1

Tot Ion: 95 Resp: 1983227
 Ion Ratio Lower Upper
 95 100
 174 58.6 50.7 76.1
 175 4.3 4.0 6.0

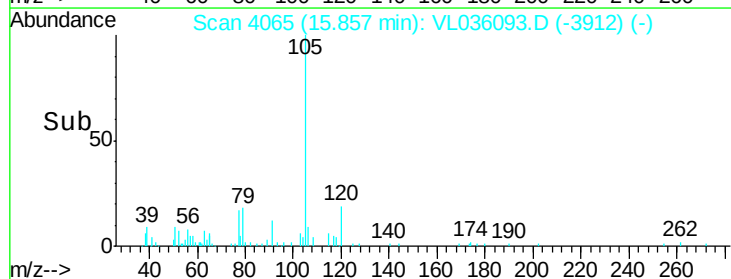
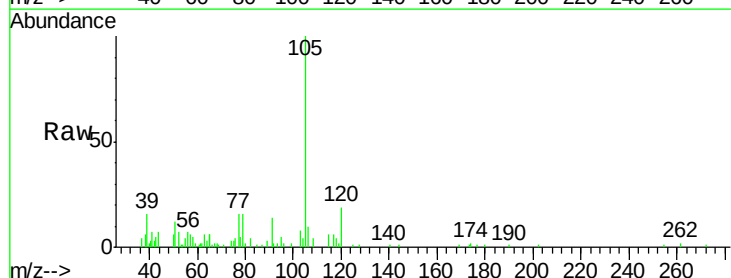
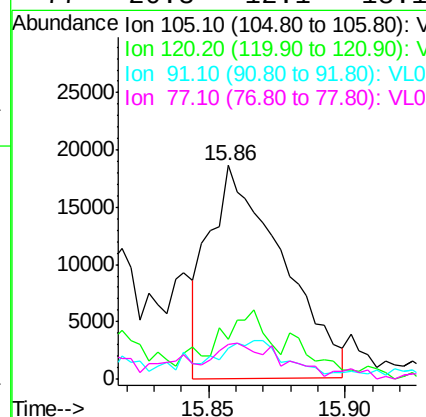
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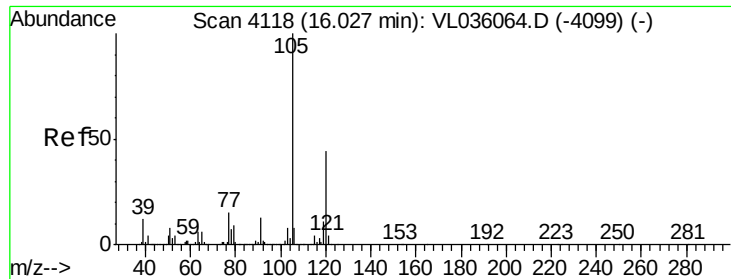
MMDadoda
 12/11/2020 5:45:35 PM



#72
 4-Ethyltoluene
 Concen: 0.125 ppbv
 RT: 15.86 min Scan# 4065
 Delta R.T. -0.01 min
 Lab File: VL036093.D
 Acq: 8 Dec 2020 9:40

Tgt Ion: 105 Resp: 34638
 Ion Ratio Lower Upper
 105 100
 120 35.6 23.6 35.4#
 91 21.7 11.4 17.0#
 77 20.3 12.1 18.1#





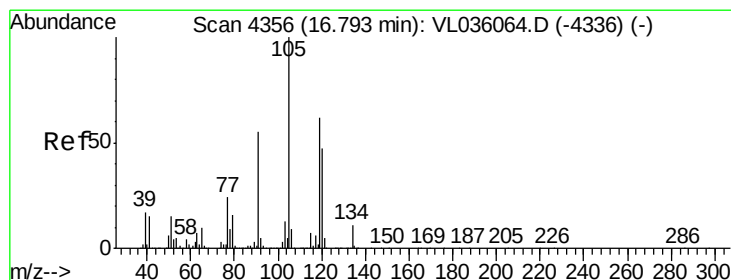
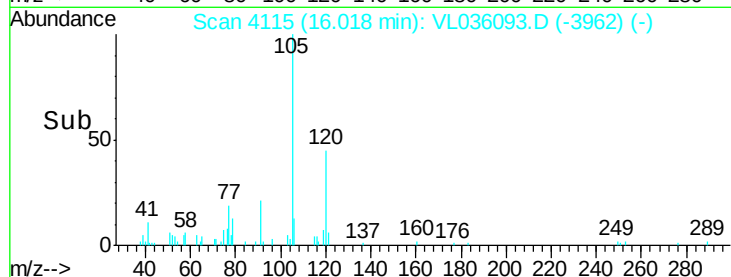
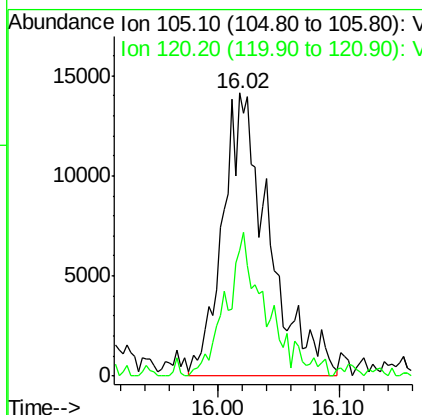
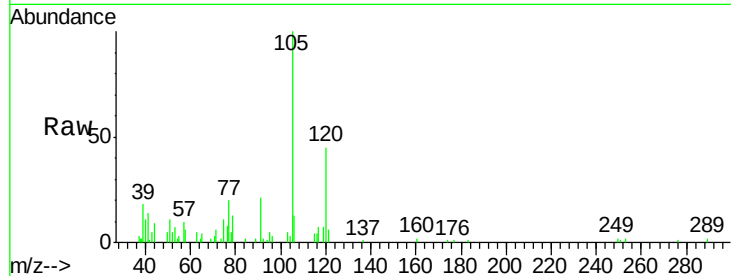
#73
 1,3,5-Trimethylbenzene
 Concen: 0.143 ppbv m
 RT: 16.02 min Scan# 4115
 Delta R.T. -0.01 min
 Lab File: VL036093.D
 Acq: 8 Dec 2020 9:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tot Ion:105 Resp: 37751
 Ion Ratio Lower Upper
 105 100
 120 44.5 35.4 53.2

Manual Integrations
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 12/11/2020 5:45:35 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.444 ppbv
 RT: 16.79 min Scan# 4354
 Delta R.T. -0.01 min
 Lab File: VL036093.D
 Acq: 8 Dec 2020 9:40

Tgt Ion:105 Resp: 117913
 Ion Ratio Lower Upper
 105 100
 120 33.3 37.4 56.0#
 91 14.2 45.6 68.4#
 77 12.4 19.4 29.2#

