

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037079.D
 Acq On : 1 Jun 2021 20:56
 Operator : SY/AP
 Sample : M2548-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

MMDadoda
 6/7/2021 2:59:10 PM

Quant Time: Jun 06 21:19:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1343205	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3894560	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3533664	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2558554	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	57410	0.252	ppbv	100
3) Chlorodifluoromethane	2.98	51	75124	0.305	ppbv	99
4) Chloromethane	3.13	50	46307	0.553	ppbv	91
9) Propene	3.01	41	40256	0.457	ppbv #	81
11) Trichlorofluoromethane	3.94	101	52271	0.248	ppbv	93
13) Ethanol	3.60	45	228787m	19.460	ppbv	
15) Acetone	3.84	43	904615	6.575	ppbv	96
19) Isopropyl Alcohol	3.98	45	70994m	0.960	ppbv	
20) Methylene Chloride	4.33	84	194713	2.640	ppbv	98
26) Hexane	5.67	57	614778	3.640	ppbv #	46
34) 2-Butanone	5.24	43	115746m	0.816	ppbv	
35) Carbon Tetrachloride	7.00	117	15015m	0.058	ppbv	
36) Benzene	6.87	78	69703	0.208	ppbv #	92
44) 2,2,4-Trimethylpentane	7.85	57	118068m	0.205	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	74180m	0.317	ppbv	
53) Toluene	9.79	91	1031524	2.584	ppbv	99
58) Ethyl Benzene	12.69	91	47511m	0.095	ppbv	
59) m/p-Xylene	12.94	91	61880m	0.150	ppbv	

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

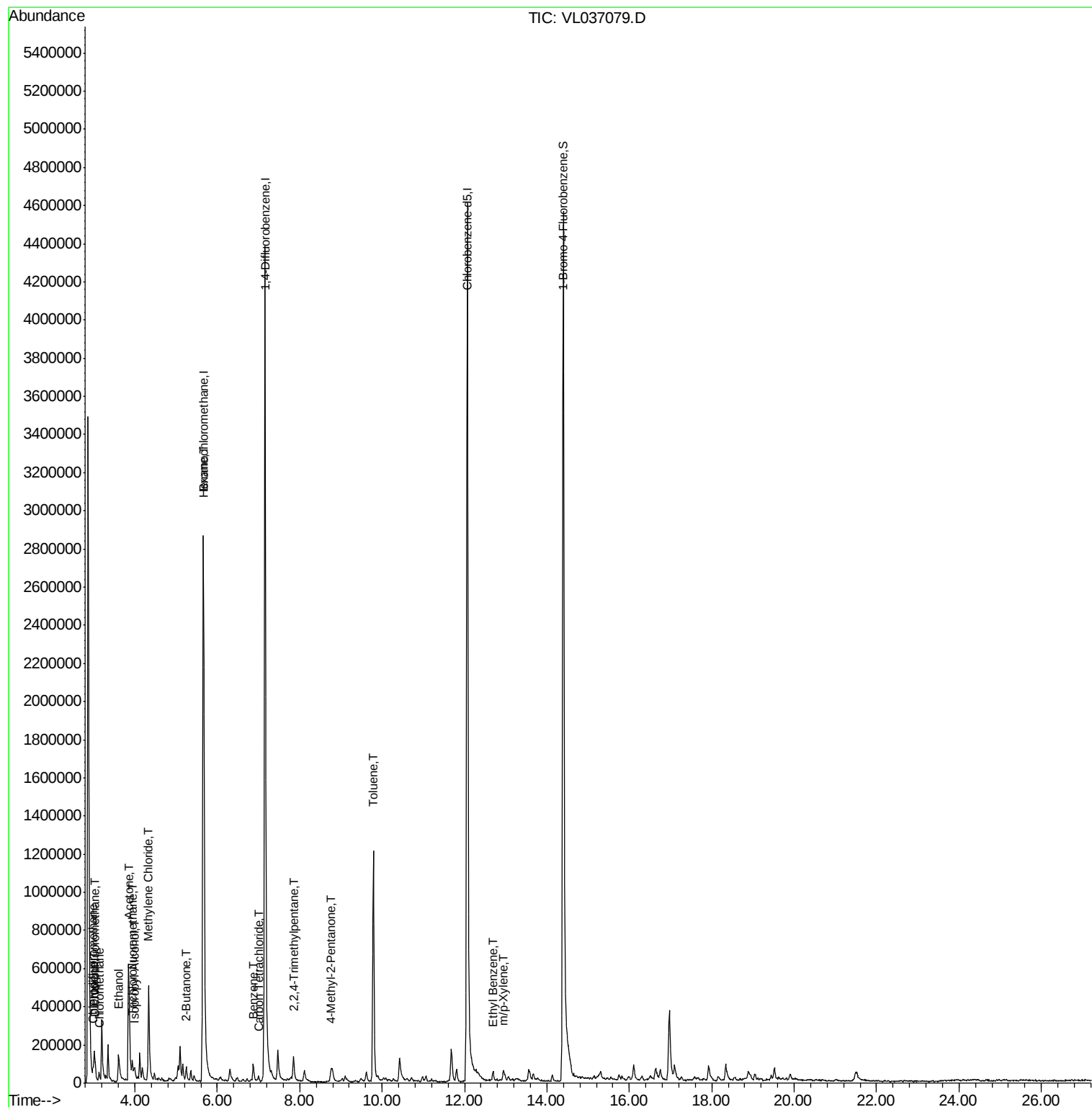
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037079.D
Acq On : 1 Jun 2021 20:56
Operator : SY/AP
Sample : M2548-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

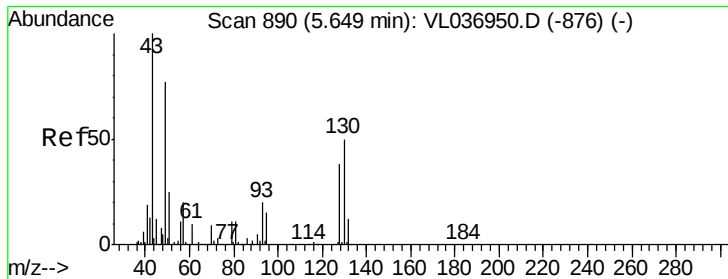
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
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6/7/2021 2:59:10 PM

Quant Time: Jun 06 21:19:14 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

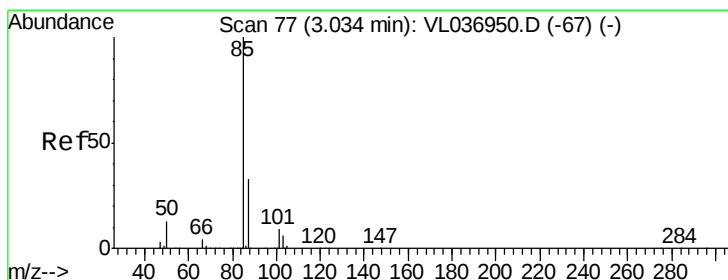
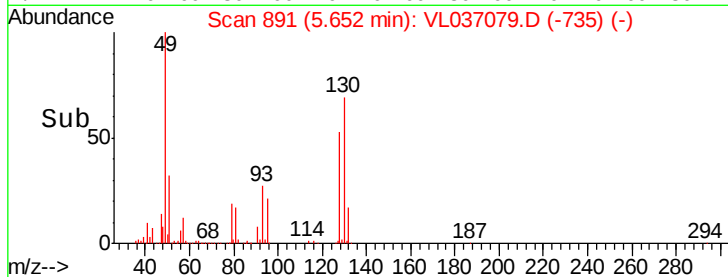
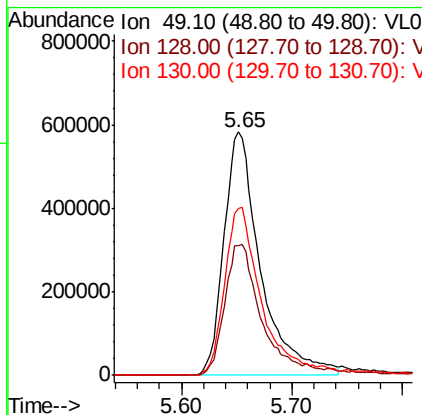
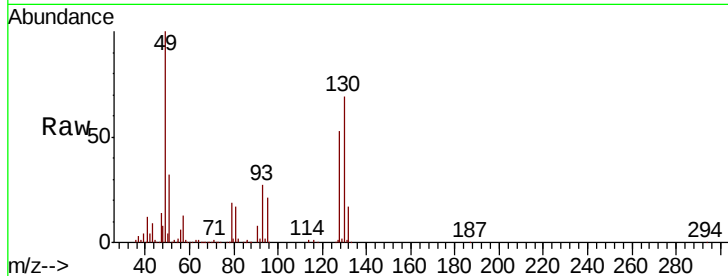
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VL037079.D
 Acq: 1 Jun 2021 20:56

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tot Ion: 49 Resp: 1343205
 Ion Ratio Lower Upper
 49 100
 128 57.4 26.9 80.7
 130 72.9 33.8 101.4

Manual Integrations
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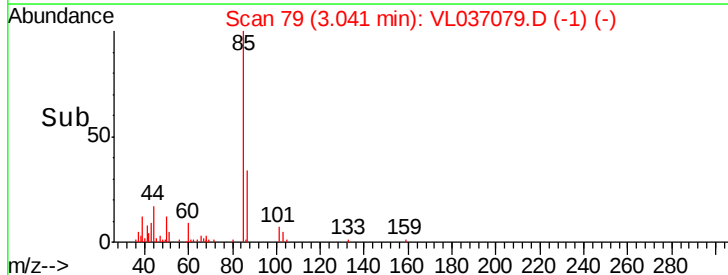
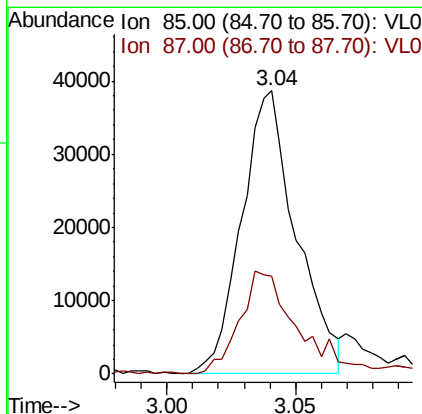
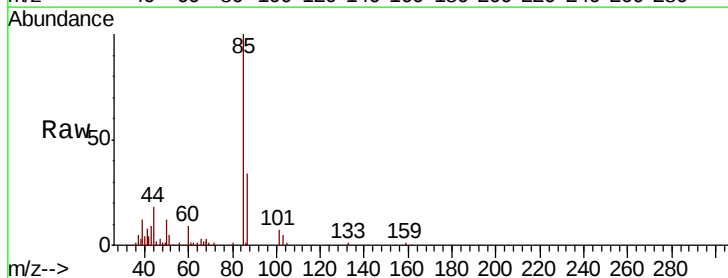
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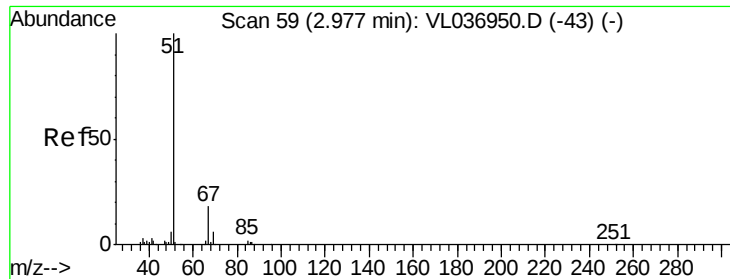


#2

Dichlorodifluoromethane
 Concen: 0.252 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. 0.01 min
 Lab File: VL037079.D
 Acq: 1 Jun 2021 20:56

Tgt Ion: 85 Resp: 57410
 Ion Ratio Lower Upper
 85 100
 87 33.4 26.6 39.8





#3

Chlorodifluoromethane

Concen: 0.305 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037079.D

Acq: 1 Jun 2021 20:56

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 51 Resp: 75124

Ion Ratio Lower Upper

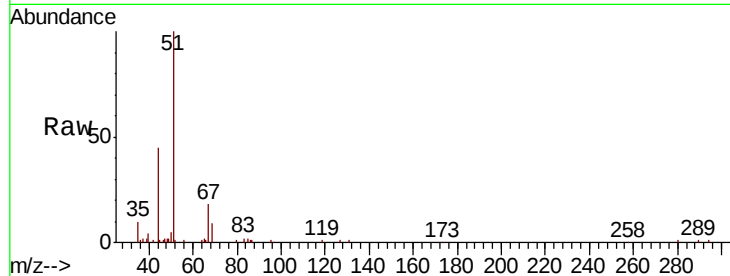
51 100

67 17.7 14.6 21.8

Manual Integrations
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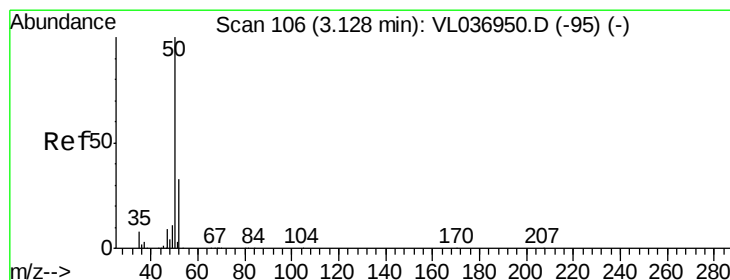
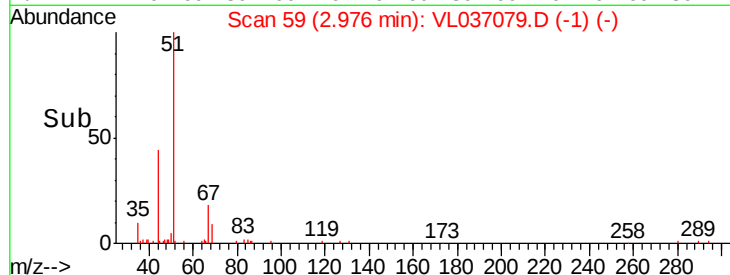
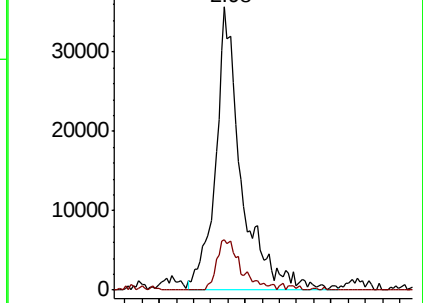
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.553 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037079.D

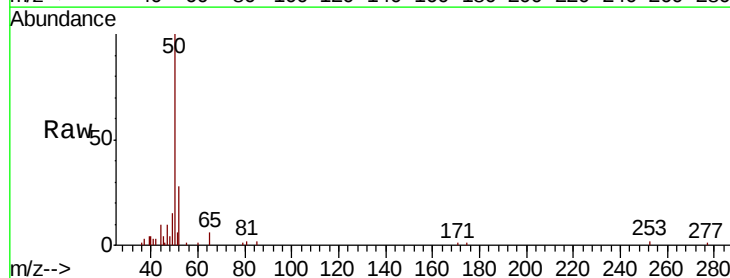
Acq: 1 Jun 2021 20:56

Tgt Ion: 50 Resp: 46307

Ion Ratio Lower Upper

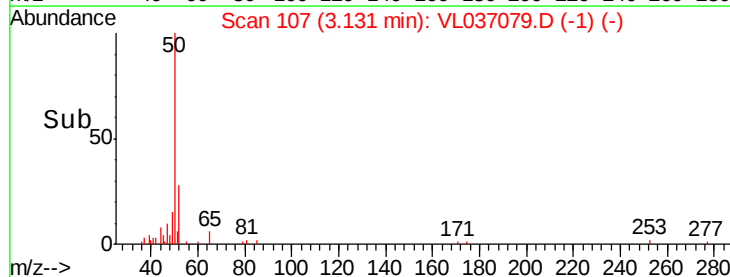
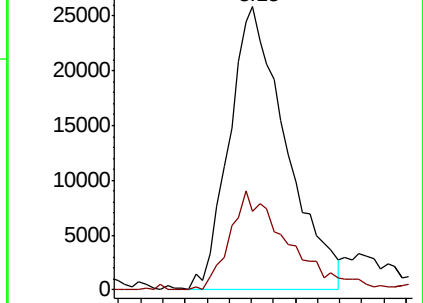
50 100

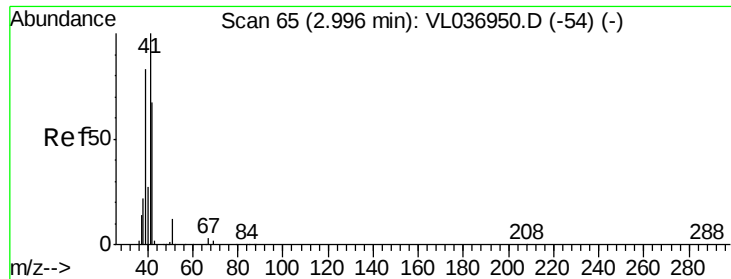
52 27.7 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





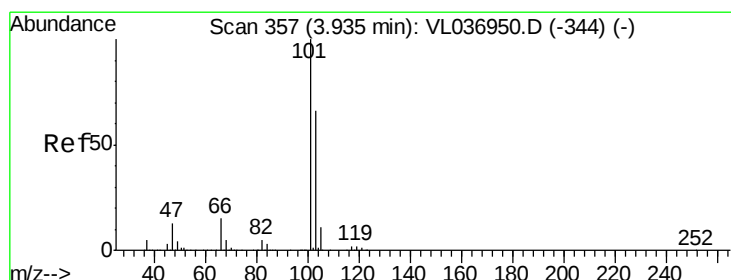
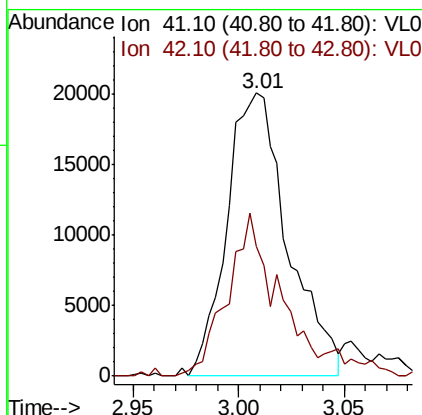
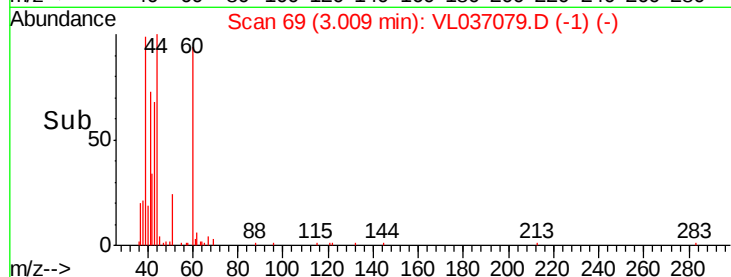
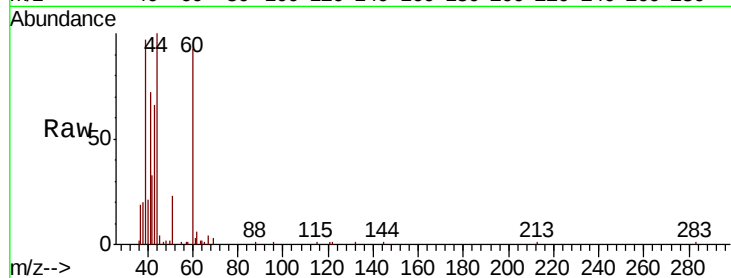
#9
 Propene
 Concen: 0.457 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.01 min
 Lab File: VL037079.D
 Acq: 1 Jun 2021 20:56

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tot Ion: 41 Resp: 40256
 Ion Ratio Lower Upper
 41 100
 42 52.5 53.9 80.9#

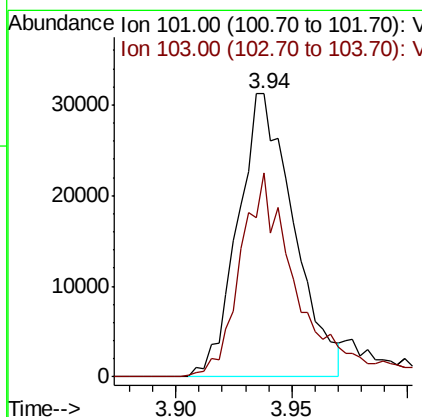
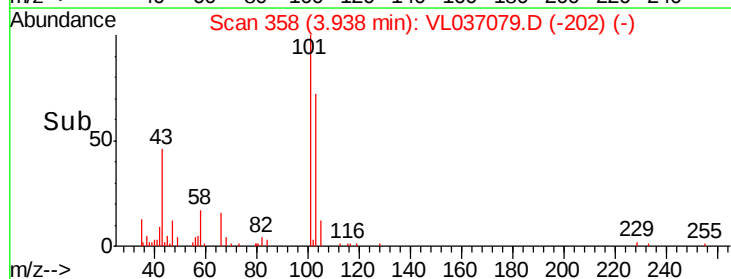
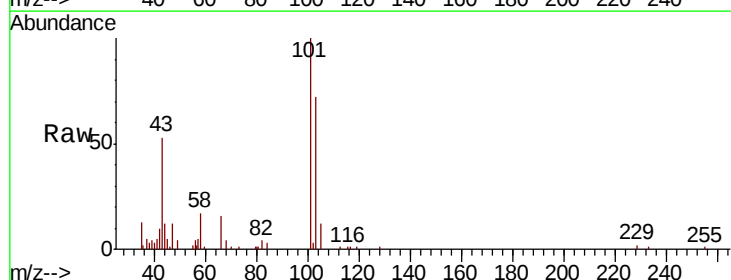
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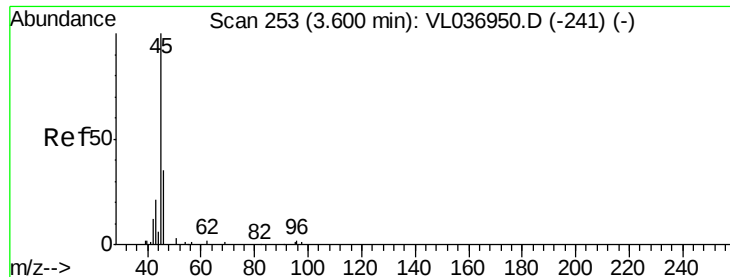
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#11
 Trichlorofluoromethane
 Concen: 0.248 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL037079.D
 Acq: 1 Jun 2021 20:56

Tgt Ion: 101 Resp: 52271
 Ion Ratio Lower Upper
 101 100
 103 71.4 52.6 79.0





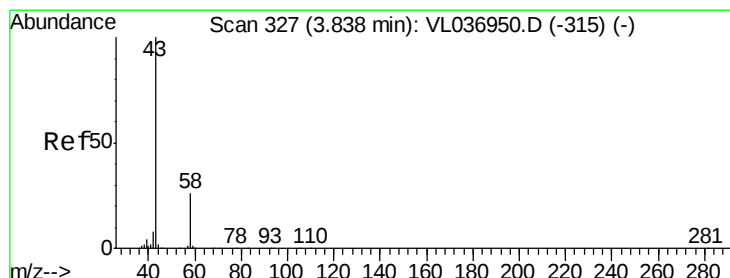
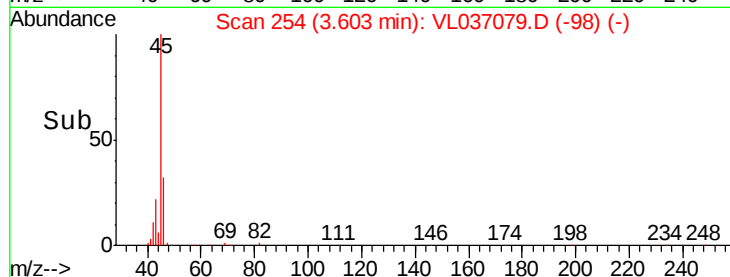
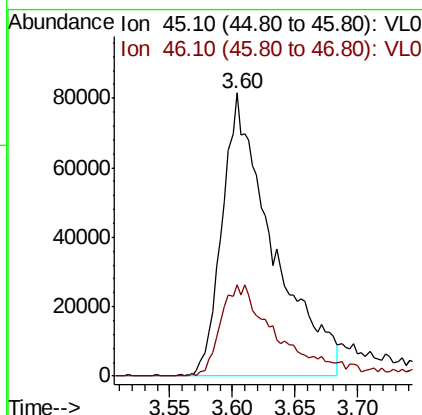
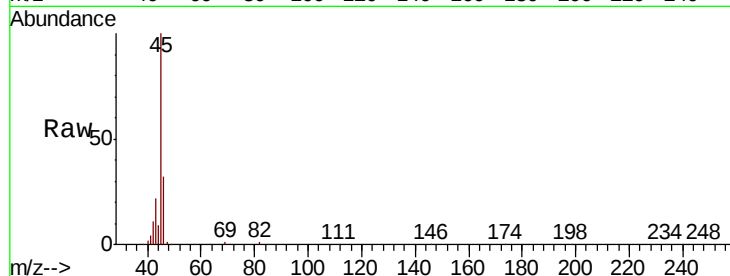
#13
Ethanol
Concen: 19.460 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	45	46	Ratio	Lower	Upper
228787	100	0.0		16.3	65.3#

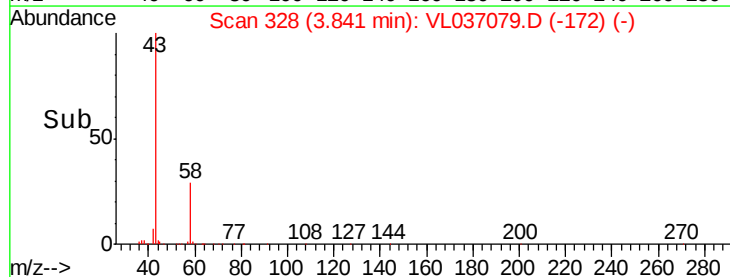
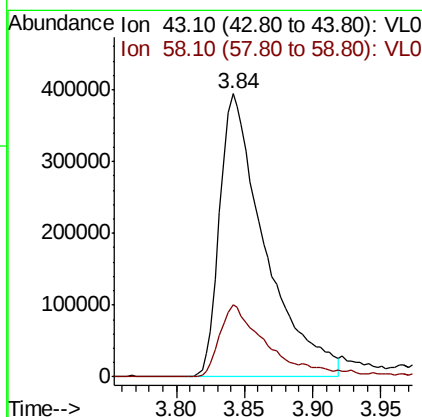
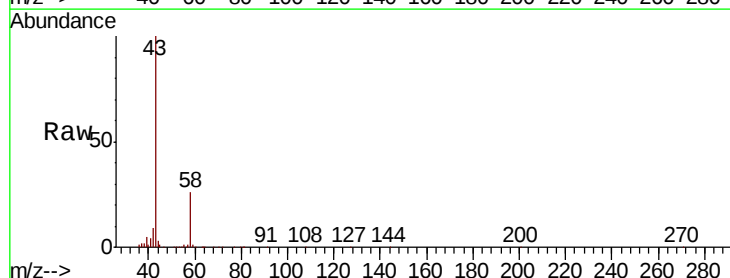
Manual Integrations
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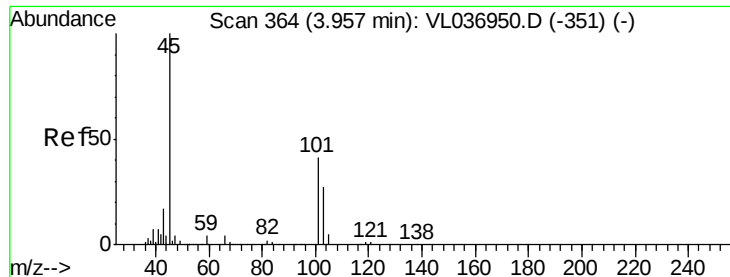
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#15
Acetone
Concen: 6.575 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Tgt Ion	43	58	Ratio	Lower	Upper
904615	100	27.8		24.0	36.0





#19

Isopropyl Alcohol

Concen: 0.960 ppbv m

RT: 3.98 min Scan# 372

Delta R.T. 0.03 min

Lab File: VL037079.D

Acq: 1 Jun 2021 20:56

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 45 Resp: 70994

Ion Ratio Lower Upper

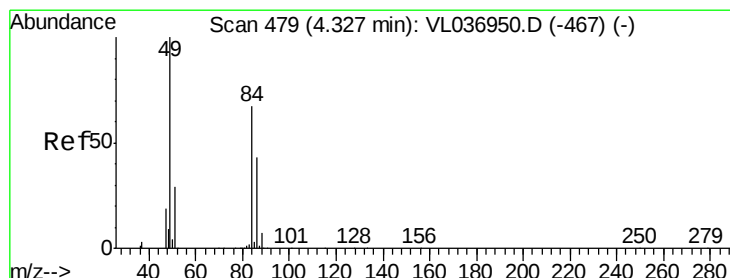
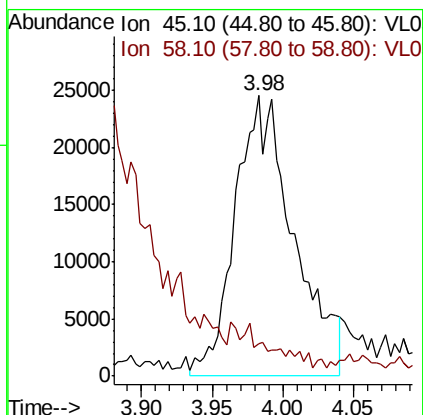
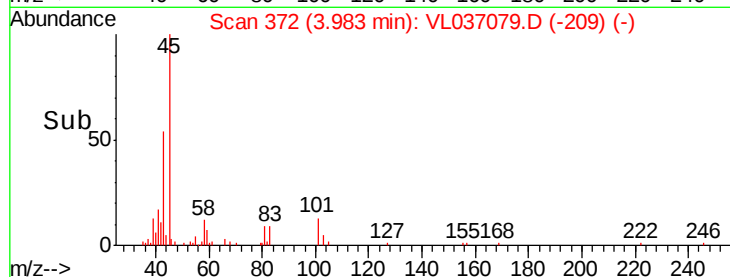
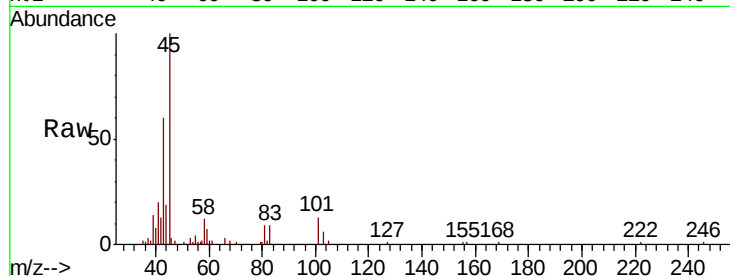
45 100

58 0.0 37.2 55.8#

Manual Integrations
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#20

Methylene Chloride

Concen: 2.640 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.01 min

Lab File: VL037079.D

Acq: 1 Jun 2021 20:56

Tgt Ion: 84 Resp: 194713

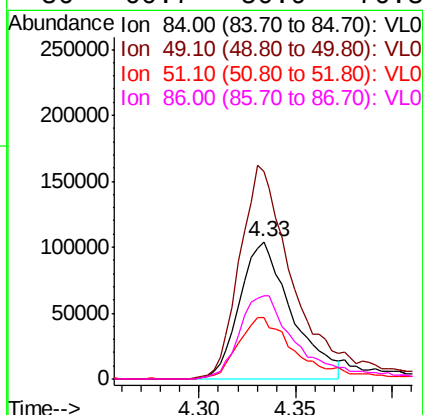
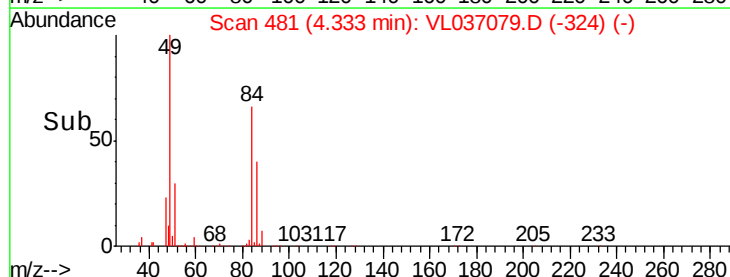
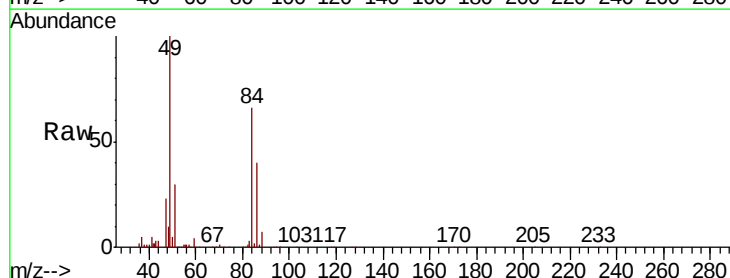
Ion Ratio Lower Upper

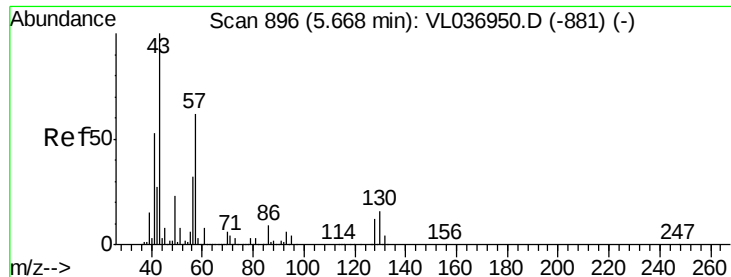
84 100

49 151.8 119.8 179.6

51 44.7 35.1 52.7

86 60.7 50.9 76.3





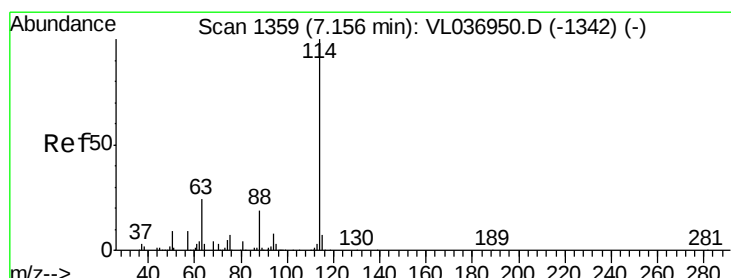
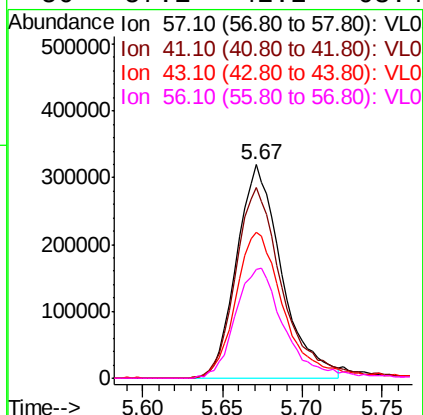
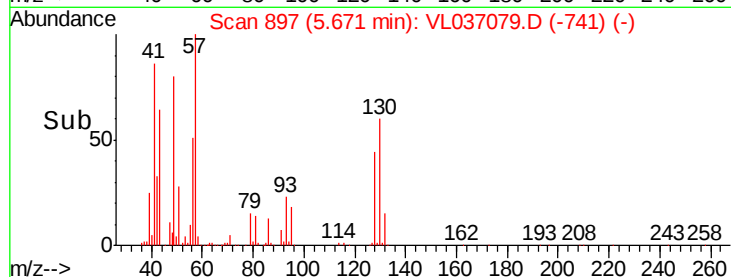
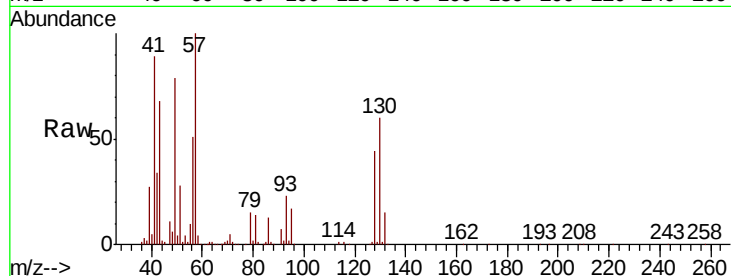
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Hexane
Concen: 3.640 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	93.8	70.5	105.7
43	73.5	165.8	248.8#
56	57.1	42.2	63.4

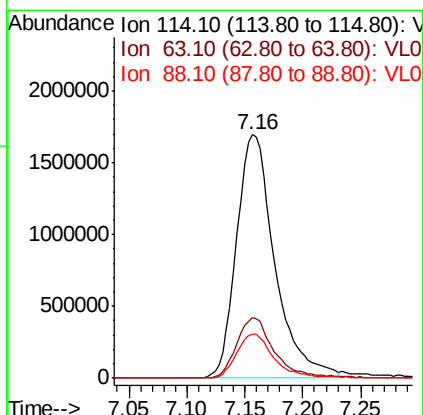
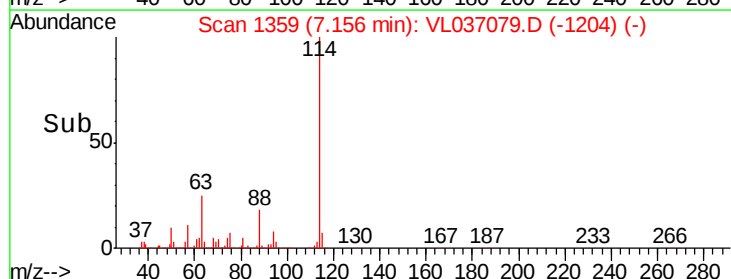
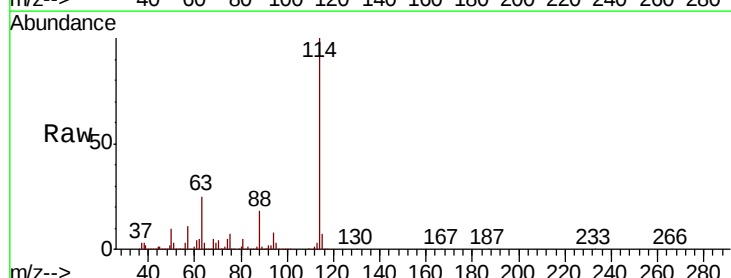
Manual Integrations
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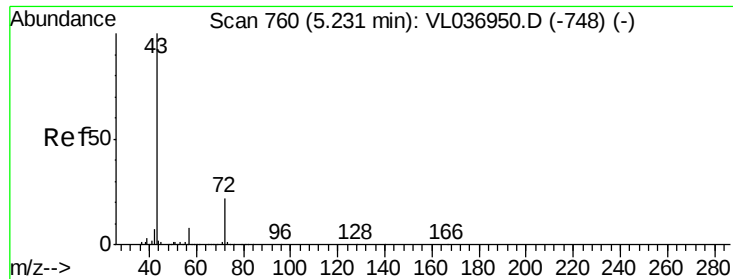
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.8	19.6	29.4
88	17.9	14.6	21.8





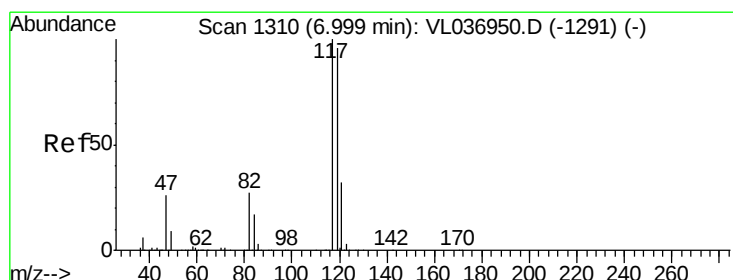
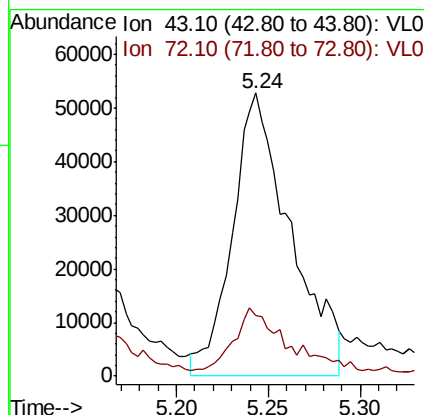
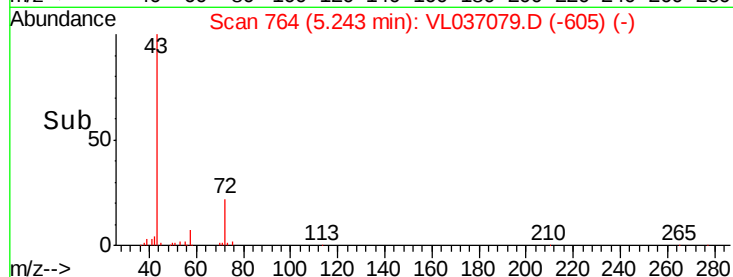
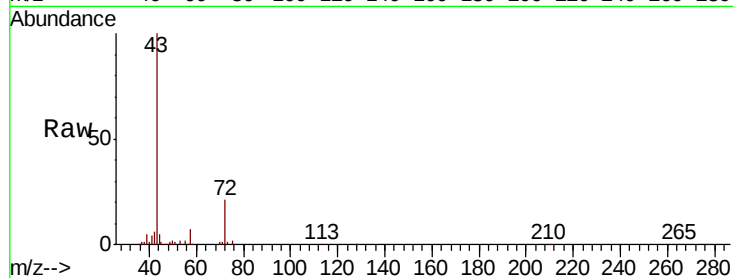
#34
2-Butanone
Concen: 0.816 ppbv m
RT: 5.24 min Scan# 764
Delta R.T. 0.01 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion: 43 Resp: 115746
Ion Ratio Lower Upper
43 100
72 26.5 19.0 28.4

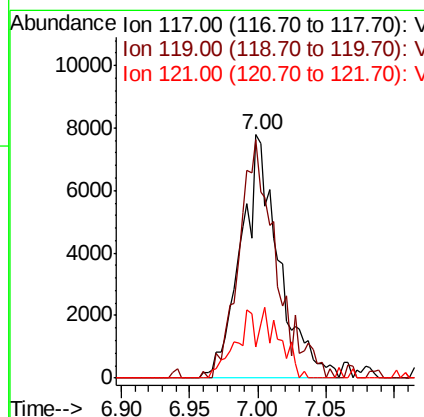
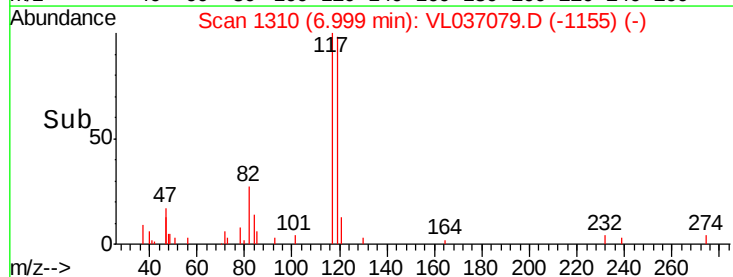
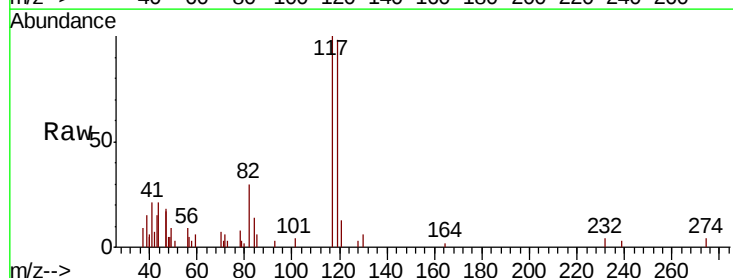
Manual Integrations
APPROVED

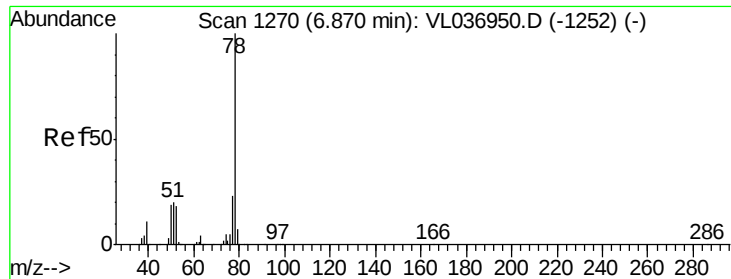
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#35
Carbon Tetrachloride
Concen: 0.058 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Tgt Ion: 117 Resp: 15015
Ion Ratio Lower Upper
117 100
119 98.2 76.6 114.8
121 12.7 25.8 38.6#





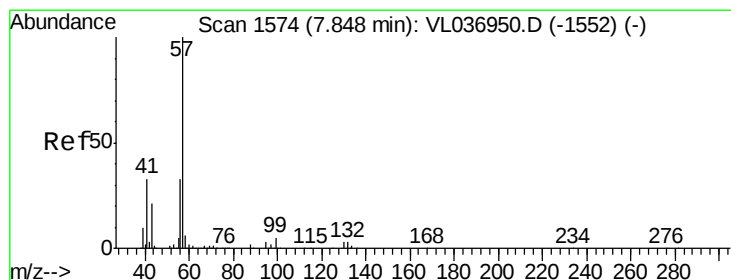
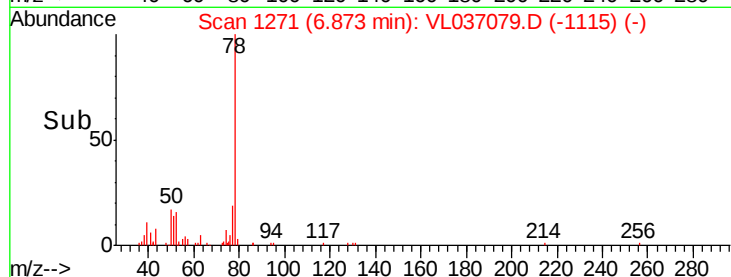
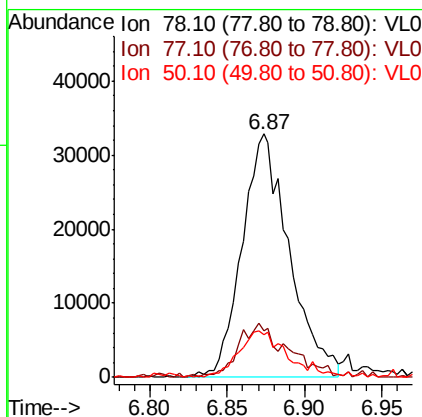
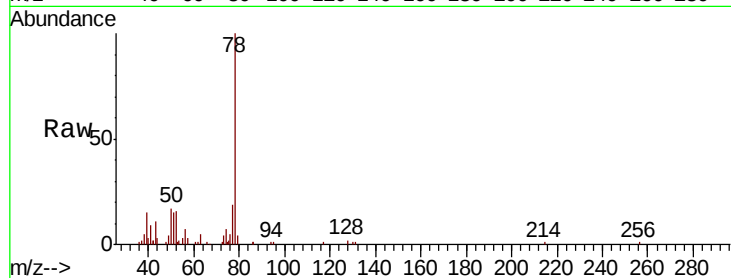
#36
Benzene
Concen: 0.208 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.3	18.6	28.0#
50	16.6	15.0	22.4

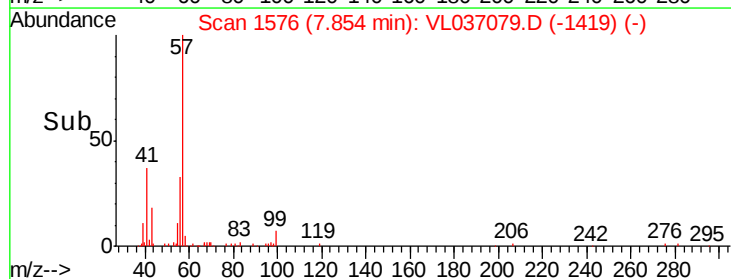
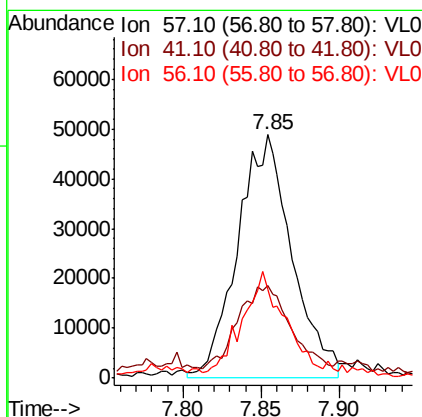
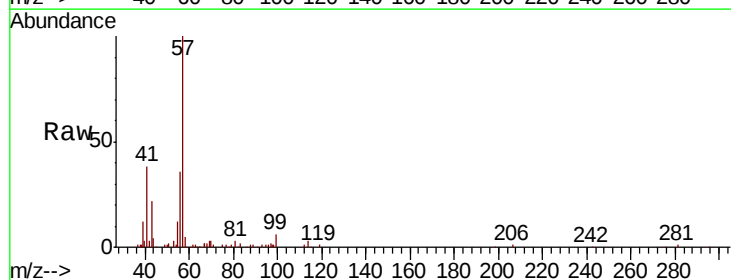
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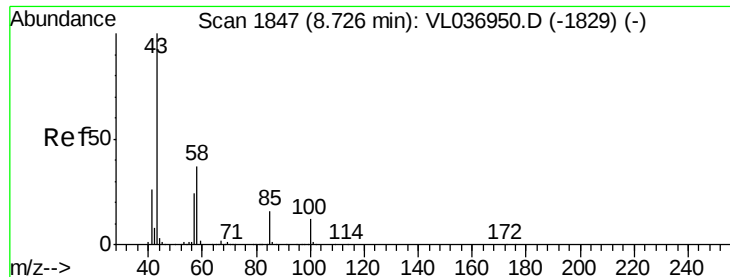
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#44
2,2,4-Trimethylpentane
Concen: 0.205 ppbv m
RT: 7.85 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.0	40.4#
56	0.0	25.4	38.2#





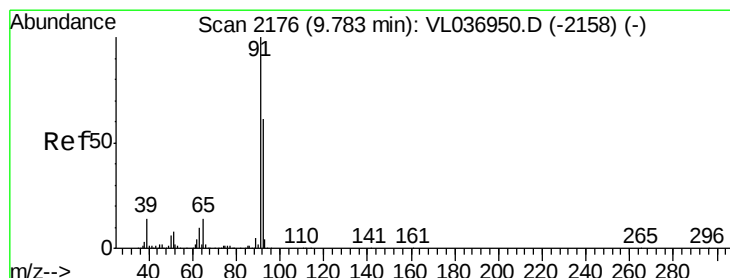
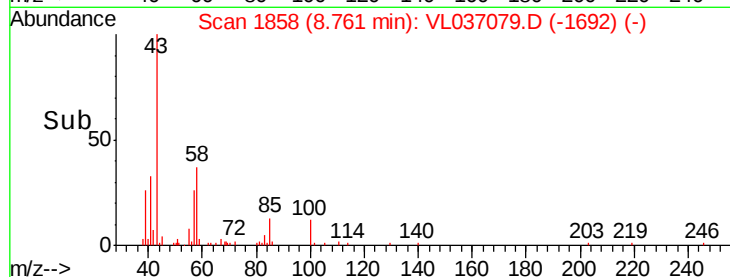
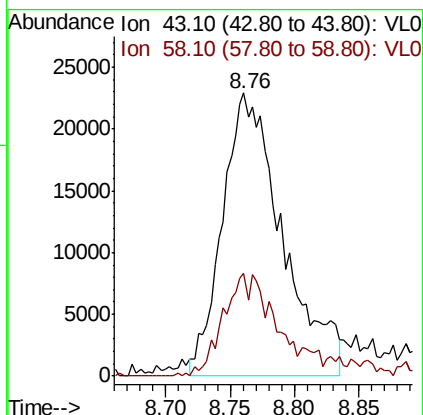
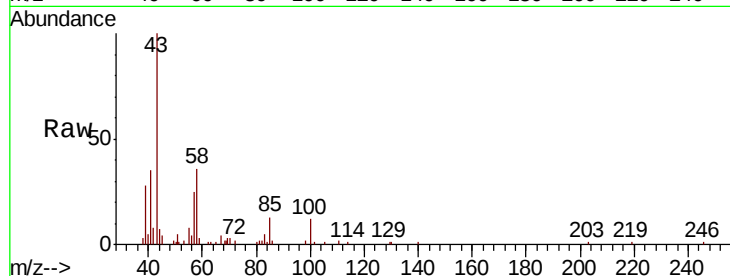
#50
4-Methyl-2-Pentanone
Concen: 0.317 ppbv m
RT: 8.76 min Scan# 1858
Delta R.T. 0.04 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	43	Resp	74180
Ion Ratio	100	Lower	Upper
43	100		
58	38.2	29.4	44.2

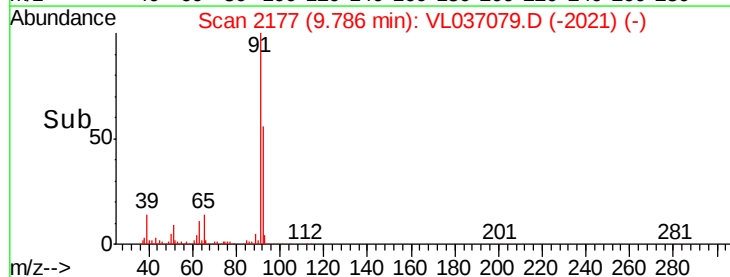
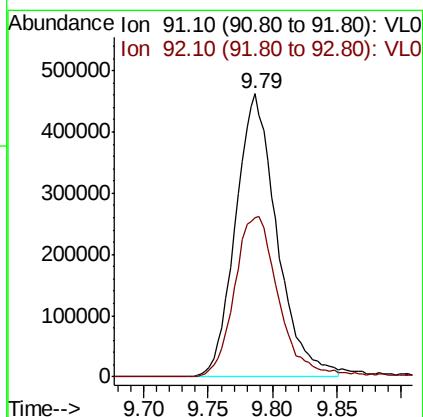
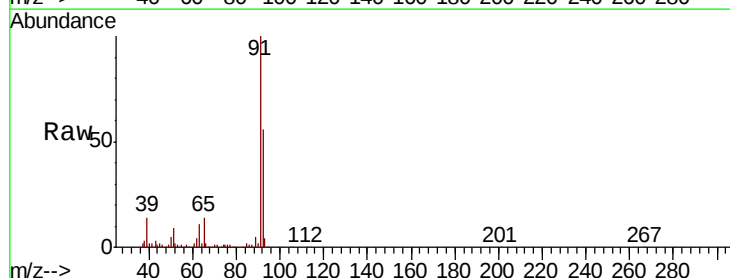
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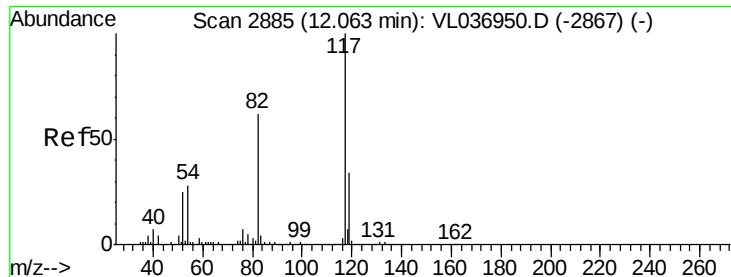
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#53
Toluene
Concen: 2.584 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Tgt Ion	91	Resp	1031524
Ion Ratio	100	Lower	Upper
91	100		
92	61.3	49.5	74.3





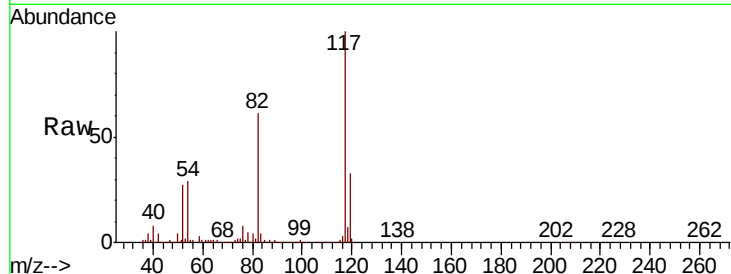
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Instrument :
MSVOA_L
ClientSampled :
AA-1

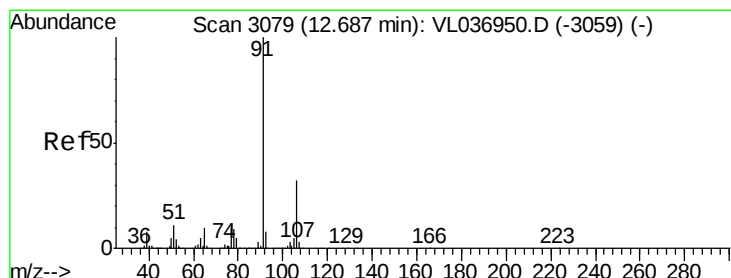
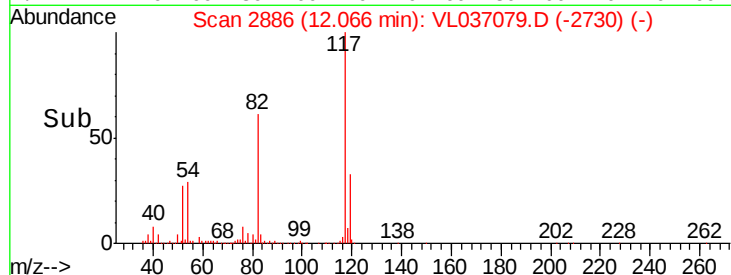
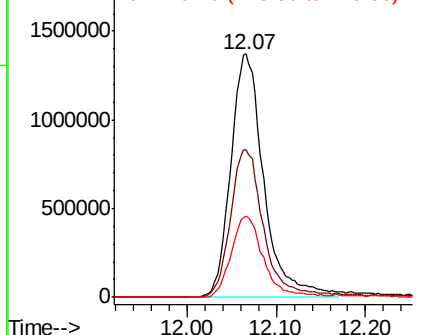
Tot Ion	Ratio	Lower	Upper
117	100		
82	62.2	52.6	79.0
119	34.2	46.6	70.0#

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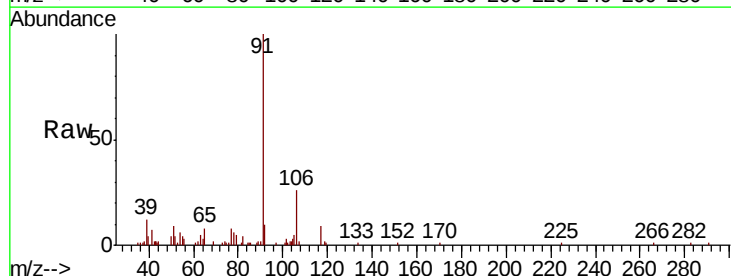


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

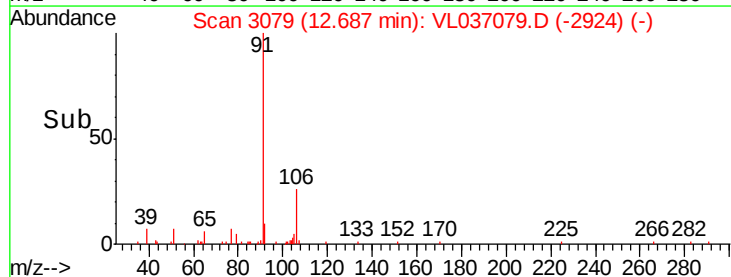
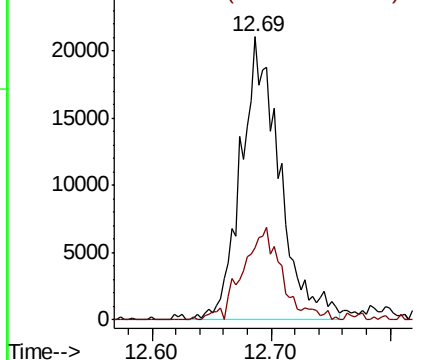


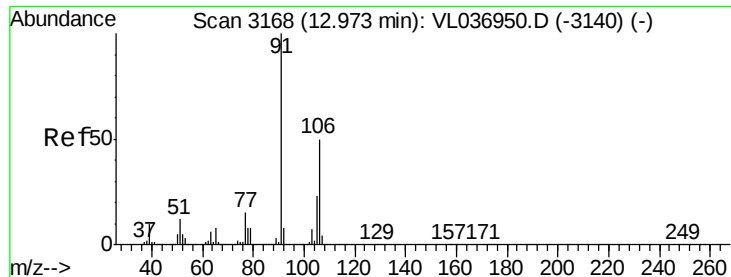
#58
Ethyl Benzene
Concen: 0.095 ppbv m
RT: 12.69 min Scan# 3079
Delta R.T. -0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.5	25.6	38.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





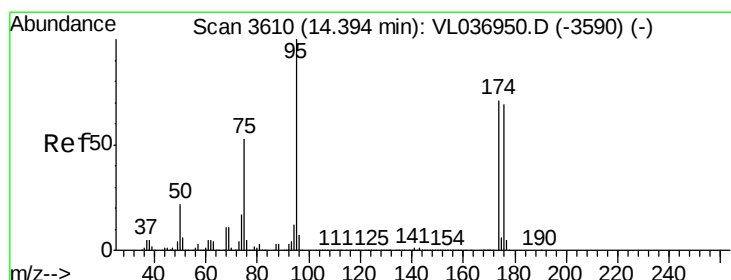
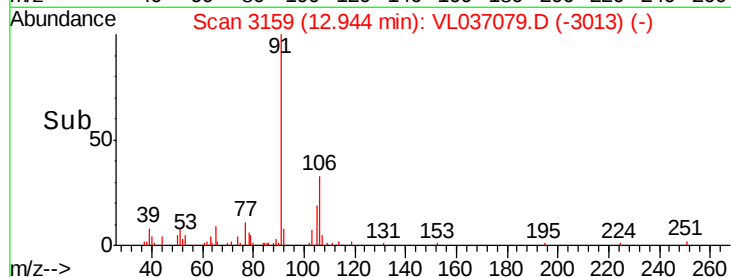
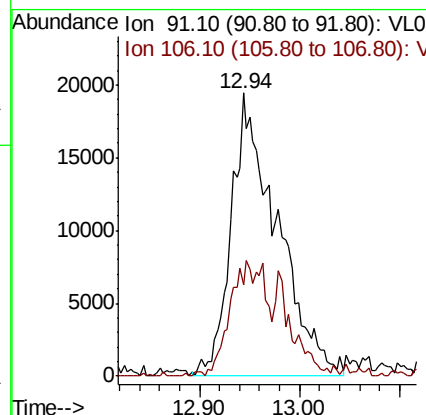
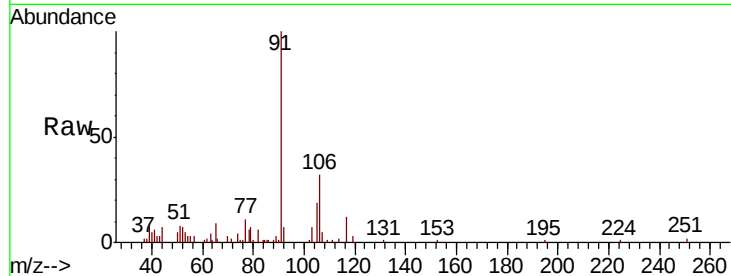
#59
m/p-Xylene
Concen: 0.150 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.03 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion: 91 Resp: 61880
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

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#68
1-Bromo-4-Fluorobenzene
Concen: 9.638 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.00 min
Lab File: VL037079.D
Acq: 1 Jun 2021 20:56

Tgt Ion: 95 Resp: 2558554
Ion Ratio Lower Upper
95 100
174 77.1 58.4 87.6
175 5.4 4.4 6.6

