

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037080.D
 Acq On : 1 Jun 2021 21:37
 Operator : SY/AP
 Sample : M2548-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

Manual Integrations
 APPROVED

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 6/7/2021 2:59:12 PM

Quant Time: Jun 06 21:20:47 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	1265979	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3833511	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3281790	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2328961	9.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	50540	0.235	ppbv	93
3) Chlorodifluoromethane	2.98	51	71100	0.307	ppbv	96
4) Chloromethane	3.13	50	45002	0.570	ppbv	94
9) Propene	3.01	41	37763m	0.455	ppbv	
11) Trichlorofluoromethane	3.94	101	55293m	0.278	ppbv	
13) Ethanol	3.61	45	232671m	20.997	ppbv	
15) Acetone	3.84	43	861493	6.644	ppbv	97
17) tert-Butyl alcohol	4.32	59	25286m	0.213	ppbv	
19) Isopropyl Alcohol	3.98	45	71141m	1.021	ppbv	
20) Methylene Chloride	4.33	84	167663	2.412	ppbv	91
26) Hexane	5.67	57	596385	3.747	ppbv #	47
34) 2-Butanone	5.24	43	90415	0.648	ppbv #	81
35) Carbon Tetrachloride	7.00	117	13813m	0.054	ppbv	
36) Benzene	6.87	78	66829	0.202	ppbv #	94
44) 2,2,4-Trimethylpentane	7.85	57	114952	0.203	ppbv #	87
50) 4-Methyl-2-Pentanone	8.76	43	81277m	0.353	ppbv	
53) Toluene	9.78	91	1025382	2.610	ppbv	99
58) Ethyl Benzene	12.69	91	44926m	0.097	ppbv	
59) m/p-Xylene	12.94	91	57594m	0.150	ppbv	

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

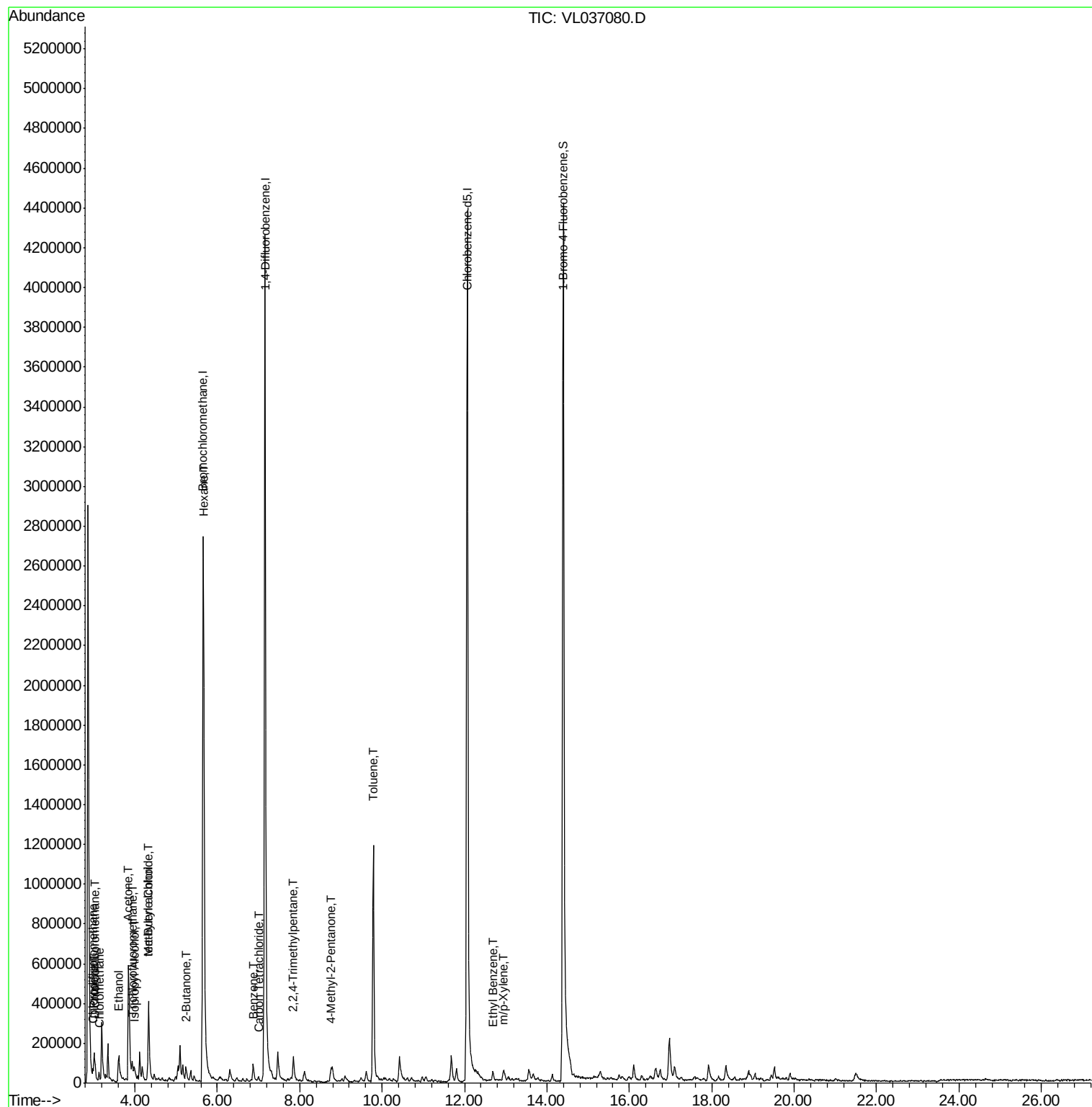
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037080.D
Acq On : 1 Jun 2021 21:37
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

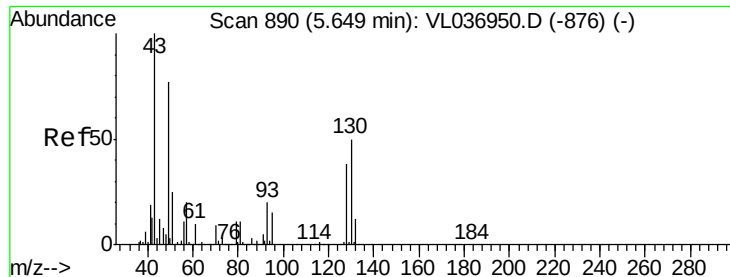
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Manual Integrations
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Quant Time: Jun 06 21:20:47 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
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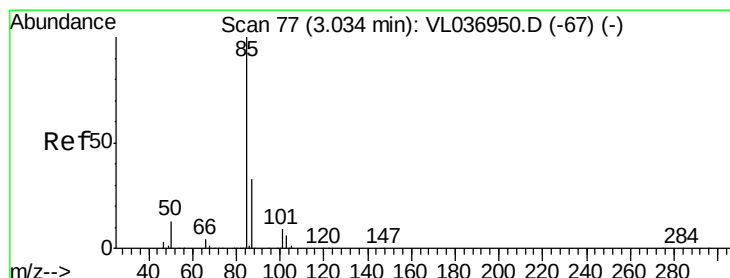
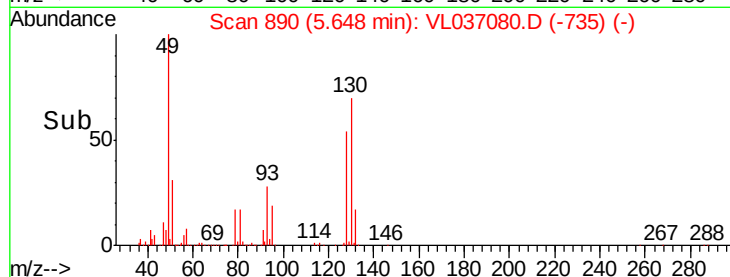
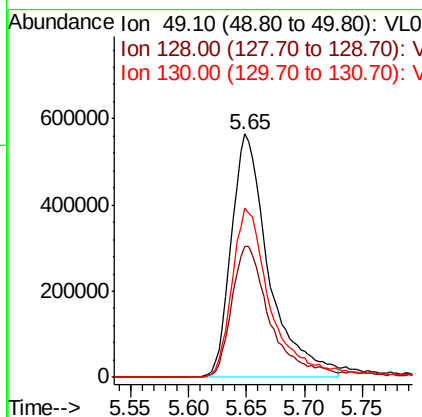
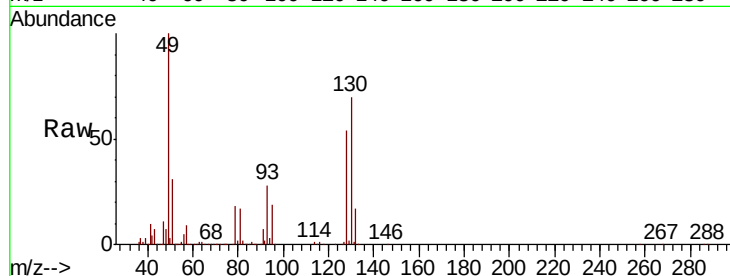
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.00 min
Lab File: VL037080.D
Acq: 1 Jun 2021 21:37

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tot Ion: 49 Resp: 1265979
Ion Ratio Lower Upper
49 100
128 58.7 26.9 80.7
130 74.8 33.8 101.4

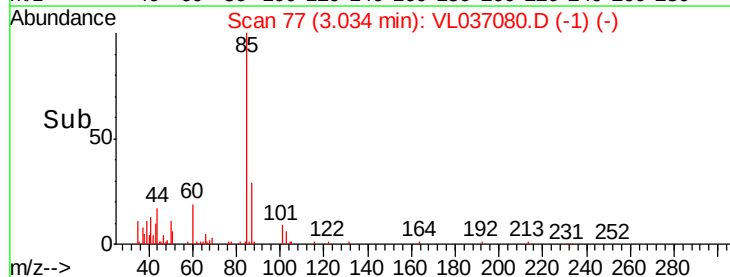
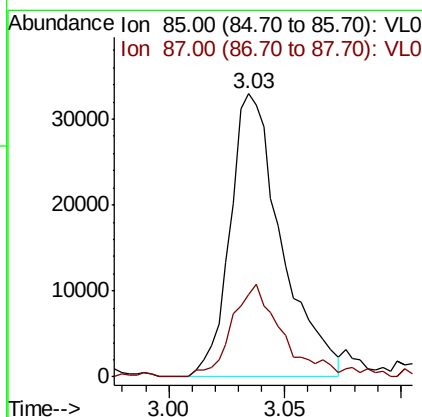
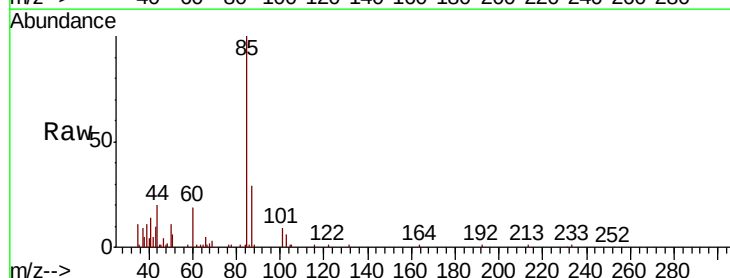
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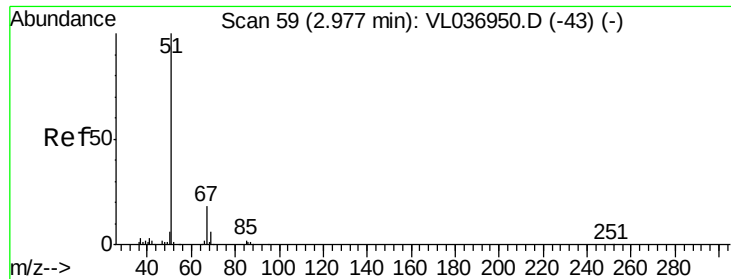
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#2
Dichlorodifluoromethane
Concen: 0.235 ppbv
RT: 3.03 min Scan# 77
Delta R.T. -0.00 min
Lab File: VL037080.D
Acq: 1 Jun 2021 21:37

Tgt Ion: 85 Resp: 50540
Ion Ratio Lower Upper
85 100
87 29.0 26.6 39.8





#3

Chlorodifluoromethane

Concen: 0.307 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037080.D

Acq: 1 Jun 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

Tot Ion: 51 Resp: 71100

Ion Ratio Lower Upper

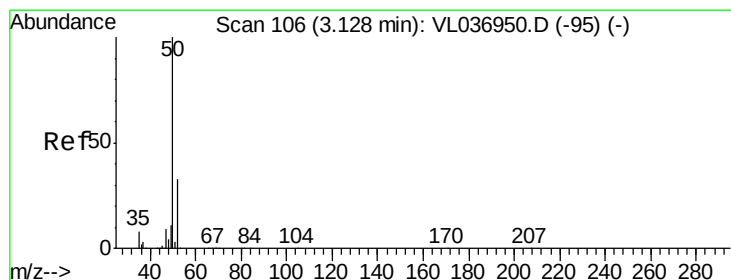
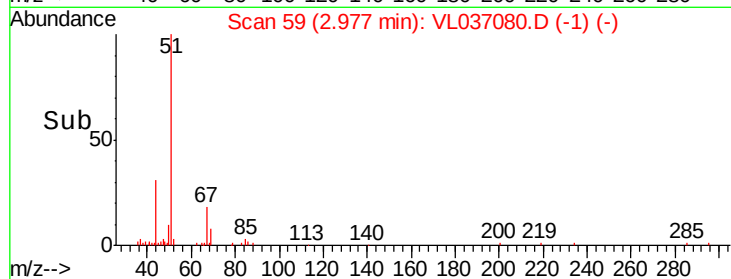
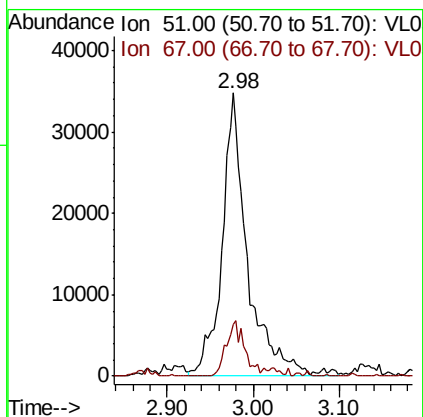
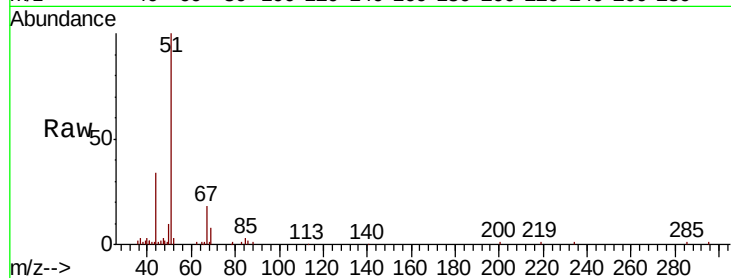
51 100

67 16.4 14.6 21.8

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#4

Chloromethane

Concen: 0.570 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037080.D

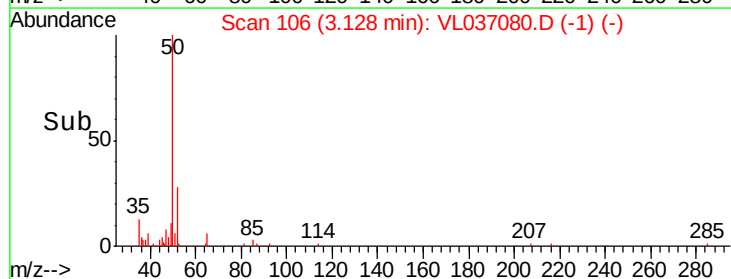
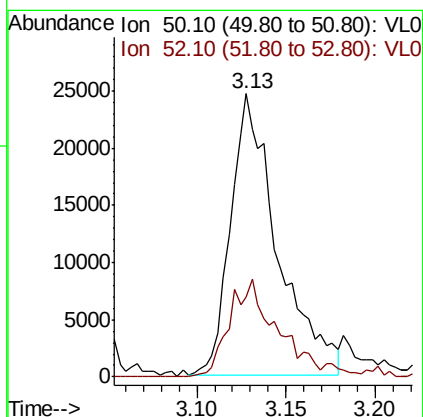
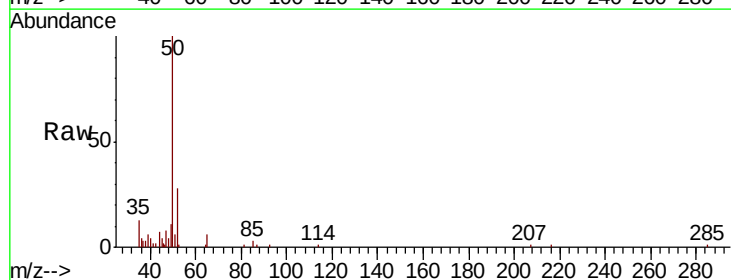
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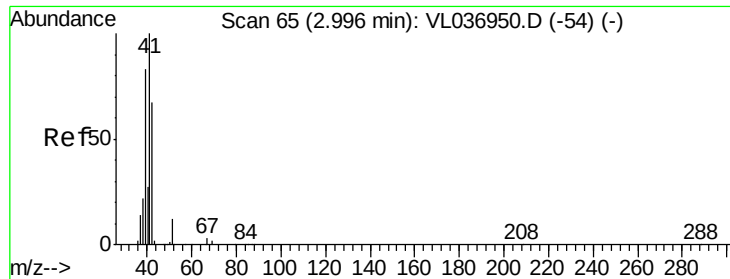
Tgt Ion: 50 Resp: 45002

Ion Ratio Lower Upper

50 100

52 29.3 26.1 39.1





#9

Propene

Concen: 0.455 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037080.D

Acq: 1 Jun 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

Tot Ion: 41 Resp: 37763

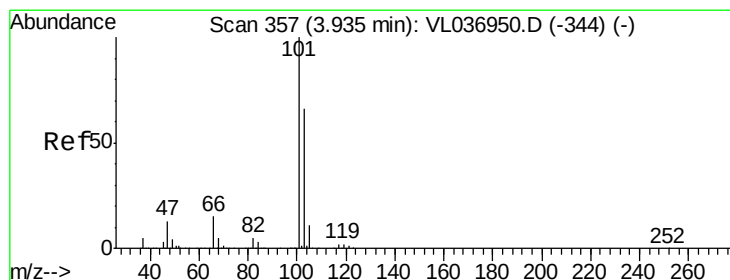
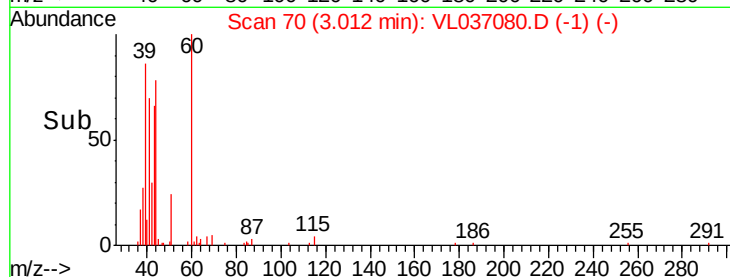
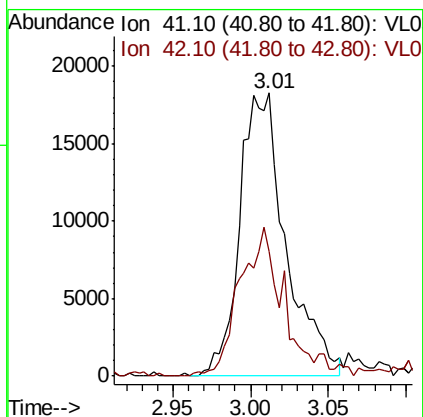
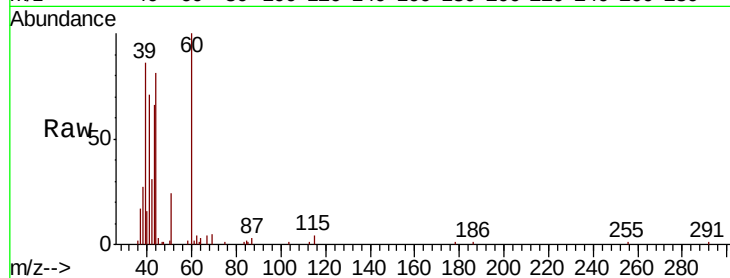
Ion Ratio Lower Upper

41 100

42 0.0 53.9 80.9#

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#11

Trichlorofluoromethane

Concen: 0.278 ppbv m

RT: 3.94 min Scan# 358

Delta R.T. 0.00 min

Lab File: VL037080.D

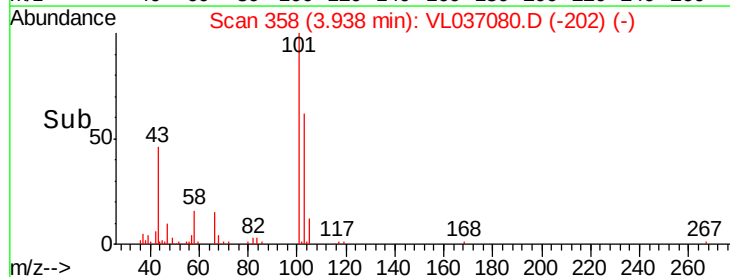
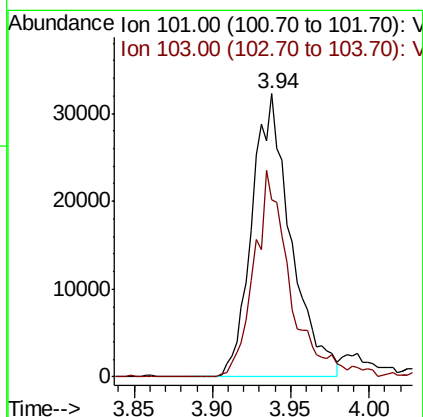
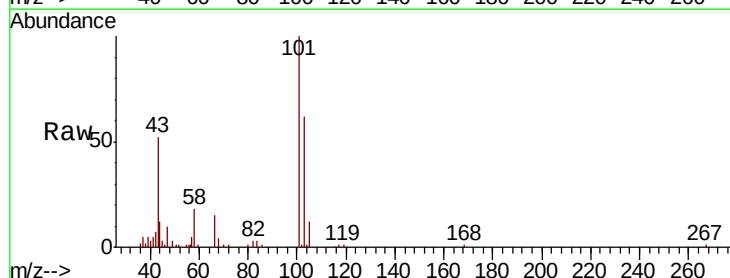
Acq: 1 Jun 2021 21:37

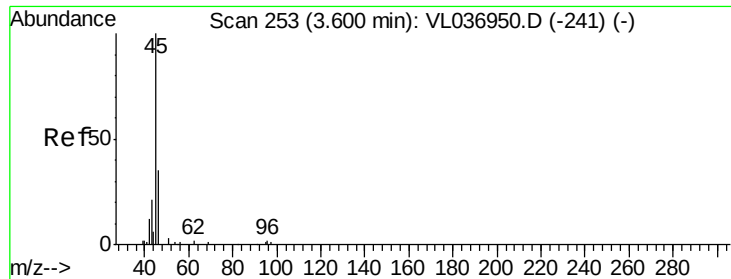
Tgt Ion: 101 Resp: 55293

Ion Ratio Lower Upper

101 100

103 62.4 52.6 79.0





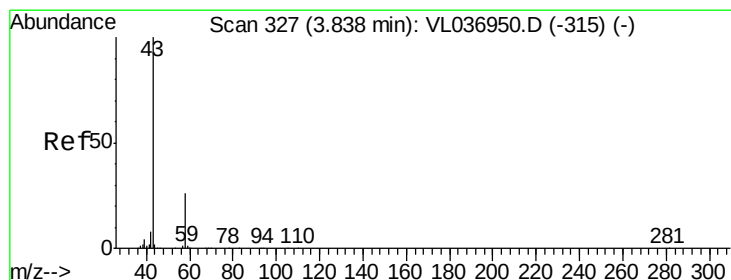
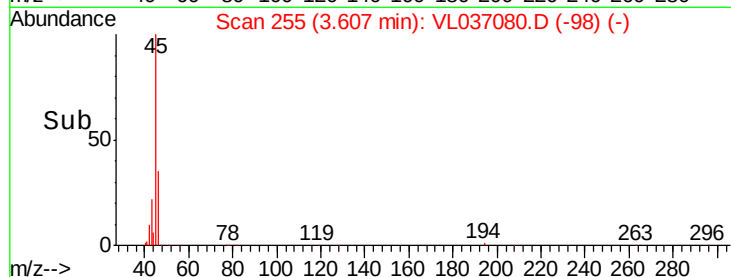
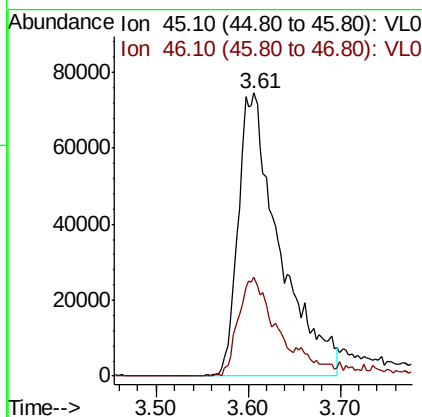
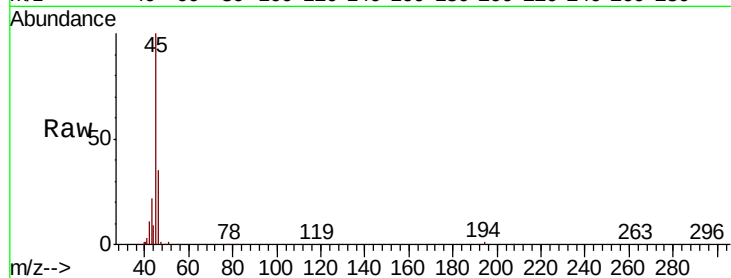
#13
Ethanol
Concen: 20.997 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL037080.D
Acq: 1 Jun 2021 21:37

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tot Ion	45	46	Ratio	Lower	Upper
232671	100	0.0		16.3	65.3#

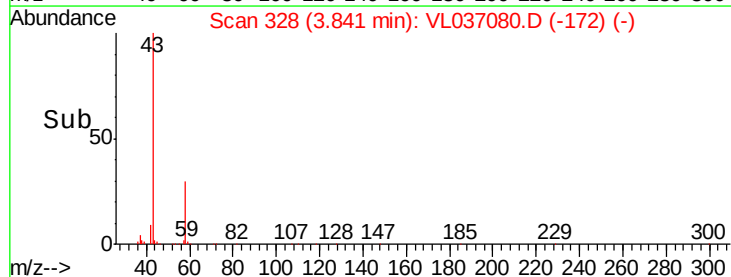
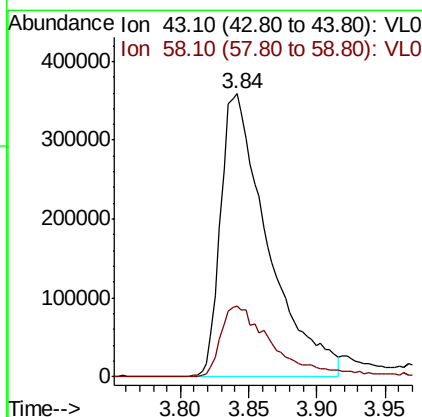
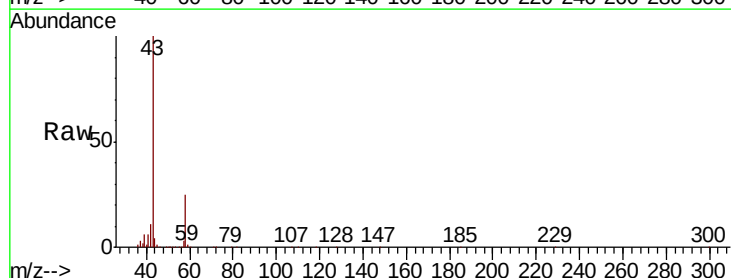
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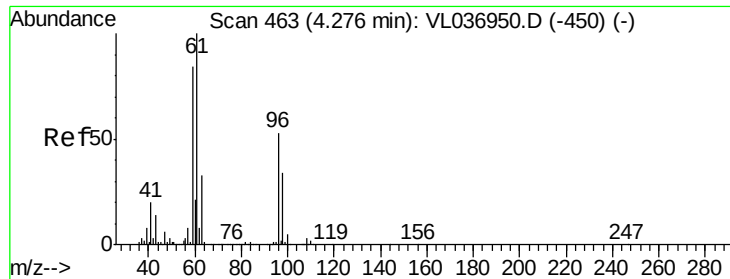
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#15
Acetone
Concen: 6.644 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL037080.D
Acq: 1 Jun 2021 21:37

Tgt Ion	43	58	Ratio	Lower	Upper
861493	100	28.3		24.0	36.0





#17

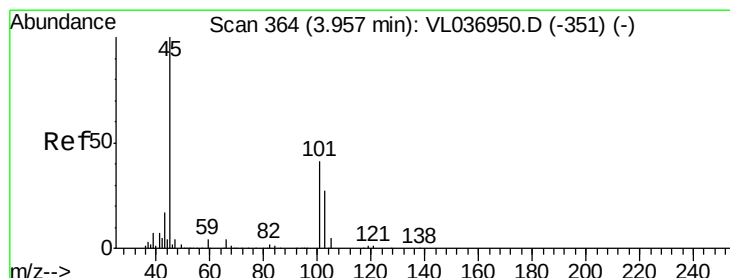
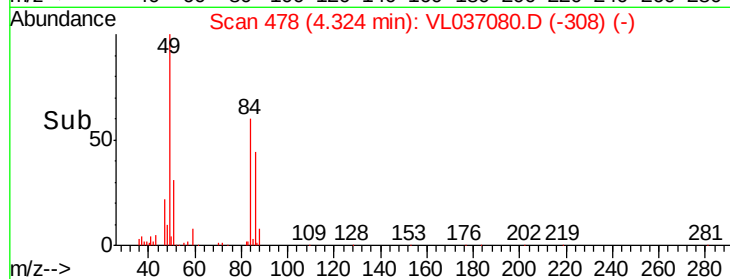
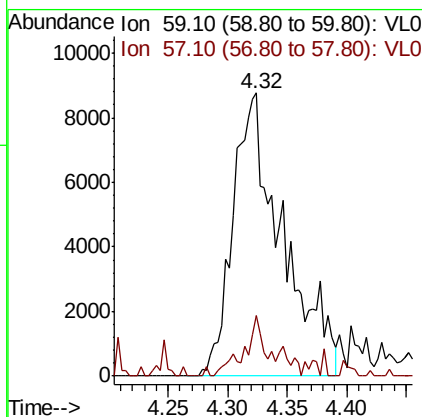
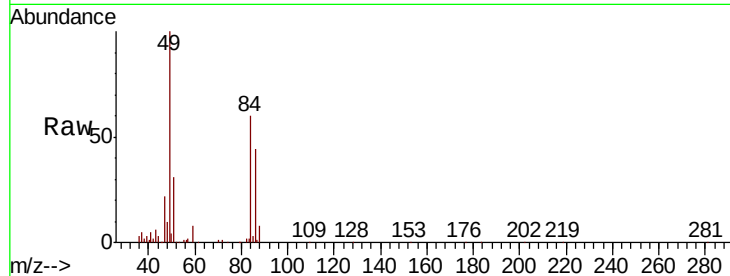
tert-Butyl alcohol
 Concen: 0.213 ppbv m
 RT: 4.32 min Scan# 478
 Delta R.T. 0.05 min
 Lab File: VL037080.D
 Acq: 1 Jun 2021 21:37

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

Tot Ion: 59 Resp: 25286
 Ion Ratio Lower Upper
 59 100
 57 13.6 8.3 12.5#

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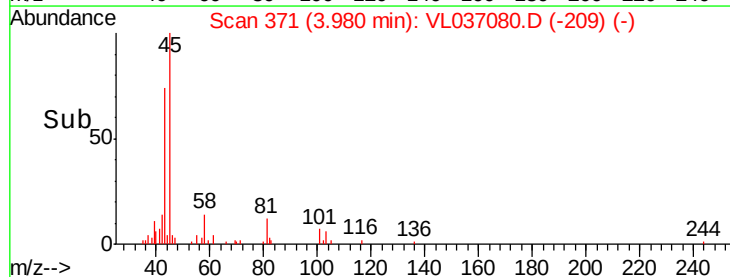
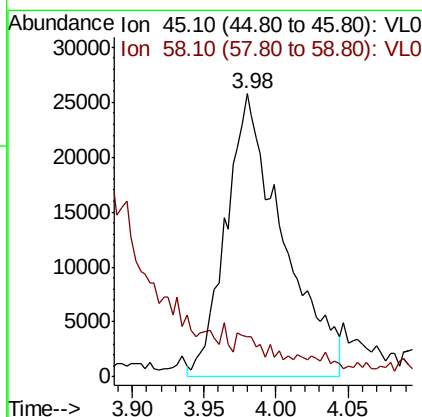
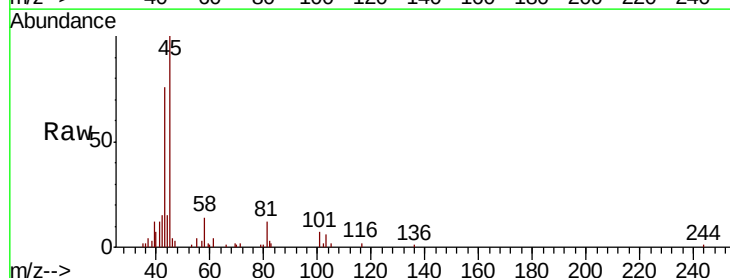
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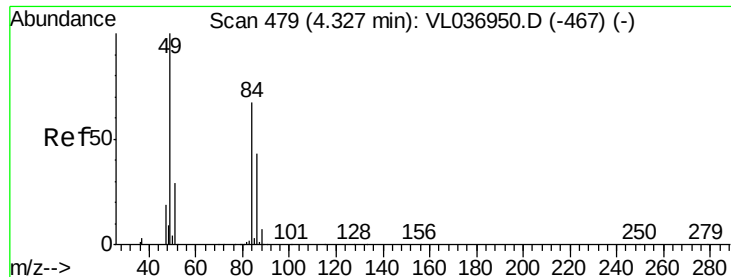


#19

Isopropyl Alcohol
 Concen: 1.021 ppbv m
 RT: 3.98 min Scan# 371
 Delta R.T. 0.02 min
 Lab File: VL037080.D
 Acq: 1 Jun 2021 21:37

Tgt Ion: 45 Resp: 71141
 Ion Ratio Lower Upper
 45 100
 58 11.0 37.2 55.8#





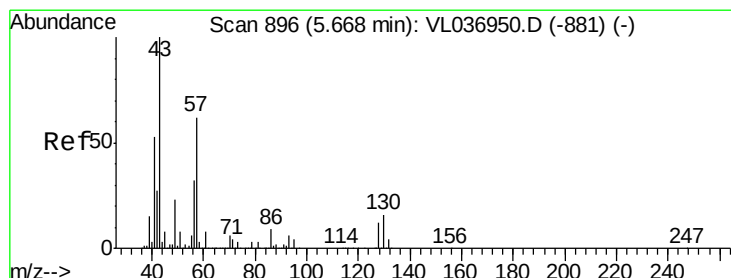
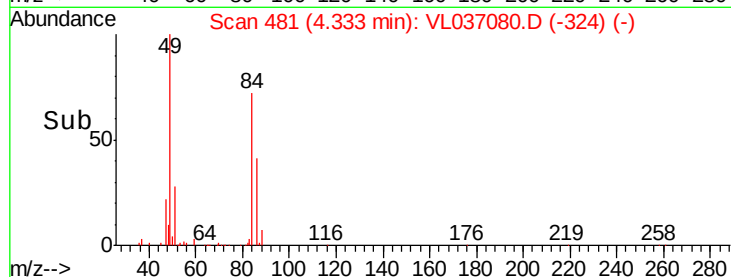
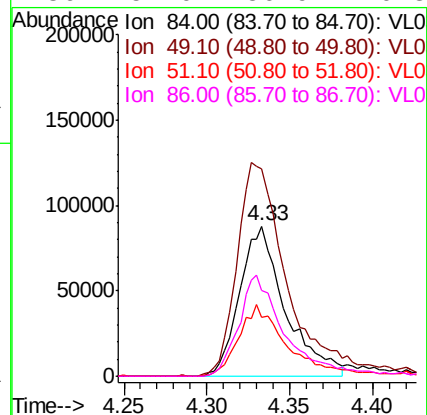
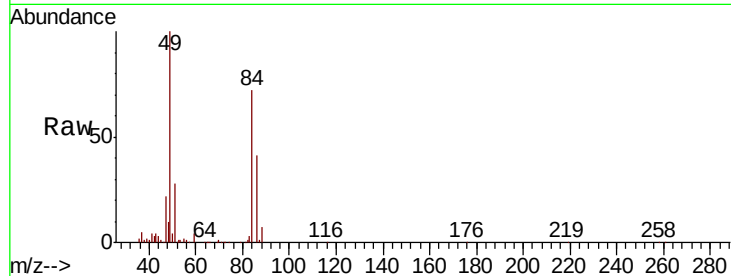
#20
Methylene Chloride
Concen: 2.412 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL037080.D
Acq: 1 Jun 2021 21:37

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tot Ion	84	Resp	167663
Ion	Ratio	Lower	Upper
84	100		
49	138.4	119.8	179.6
51	39.2	35.1	52.7
86	57.0	50.9	76.3

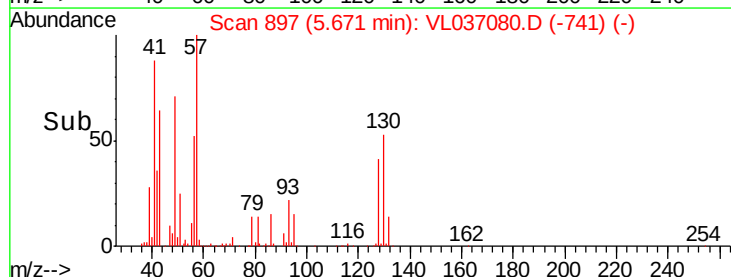
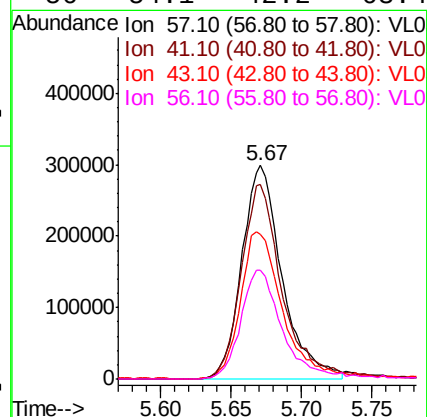
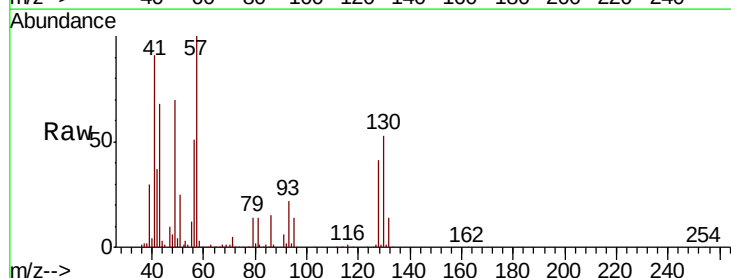
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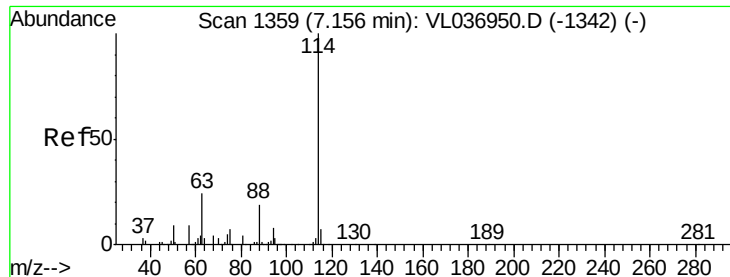
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#26
Hexane
Concen: 3.747 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037080.D
Acq: 1 Jun 2021 21:37

Tgt Ion	57	Resp	596385
Ion	Ratio	Lower	Upper
57	100		
41	94.3	70.5	105.7
43	73.2	165.8	248.8#
56	54.1	42.2	63.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL037080.D

Acq: 1 Jun 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

Tot Ion:114 Resp: 3833511

Ion Ratio Lower Upper

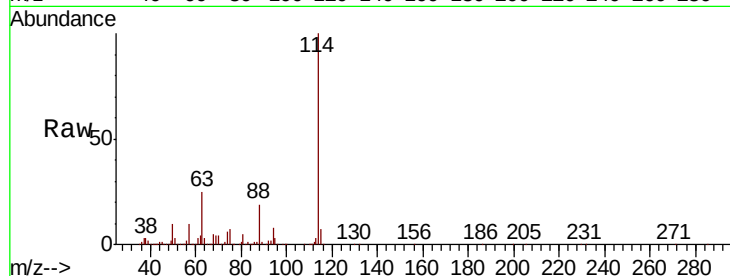
114 100

63 24.3 19.6 29.4

88 17.9 14.6 21.8

Manual Integrations
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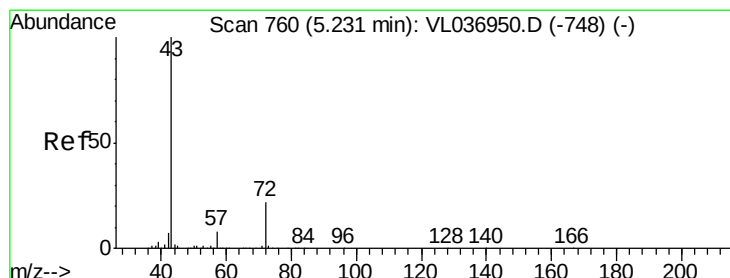
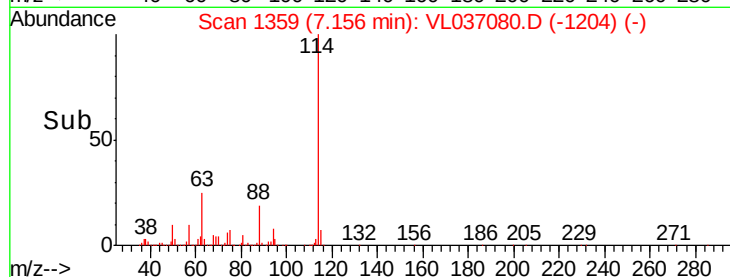
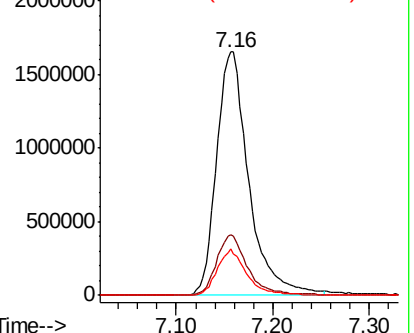
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6/7/2021 2:59:12 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.648 ppbv

RT: 5.24 min Scan# 762

Delta R.T. 0.01 min

Lab File: VL037080.D

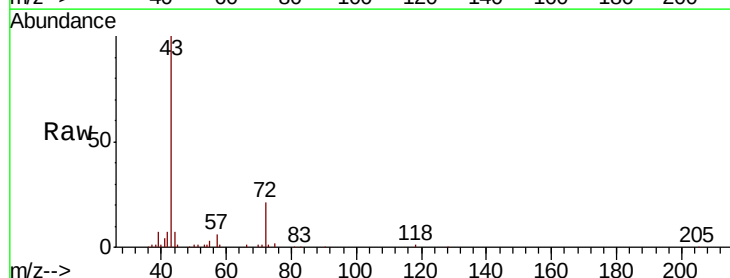
Acq: 1 Jun 2021 21:37

Tgt Ion: 43 Resp: 90415

Ion Ratio Lower Upper

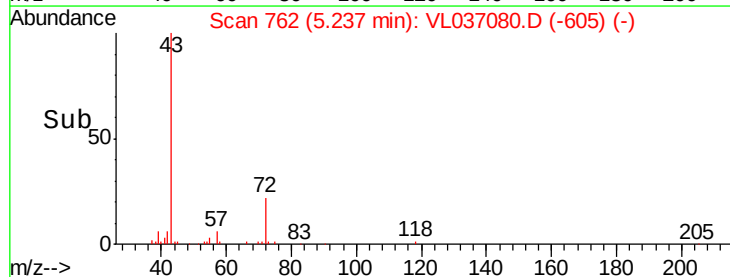
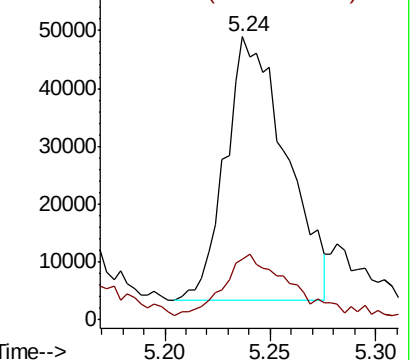
43 100

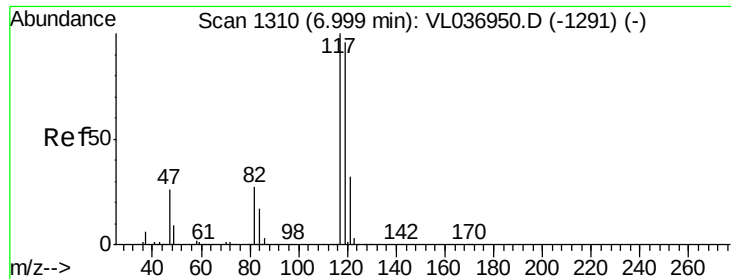
72 33.2 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





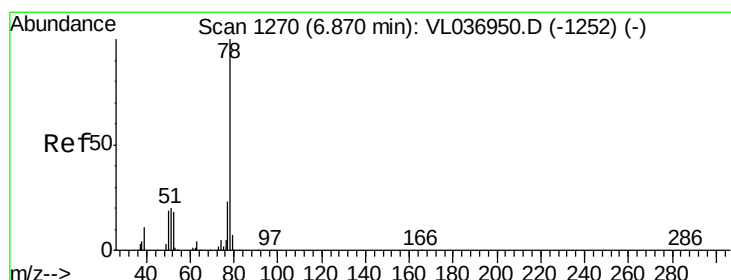
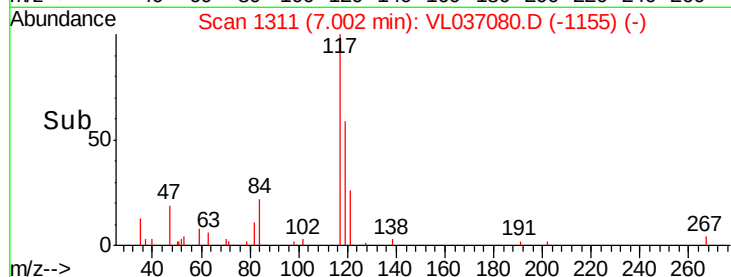
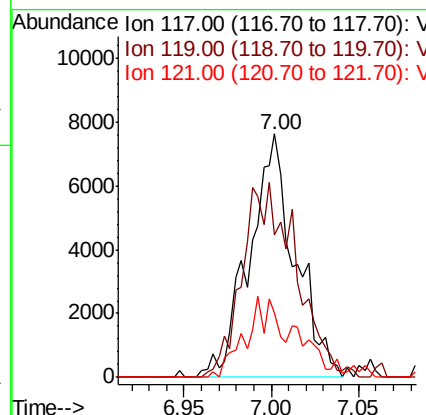
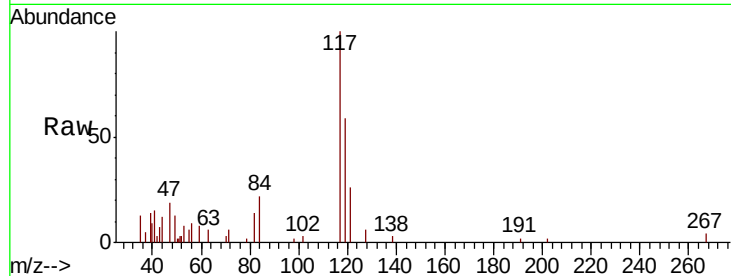
#35
Carbon Tetrachloride
Concen: 0.054 ppbv m
RT: 7.00 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL037080.D
Acq: 1 Jun 2021 21:37

Instrument :
MSVOA_L
ClientSampled :
AA-1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	58.5	76.6	114.8#
121	26.2	25.8	38.6

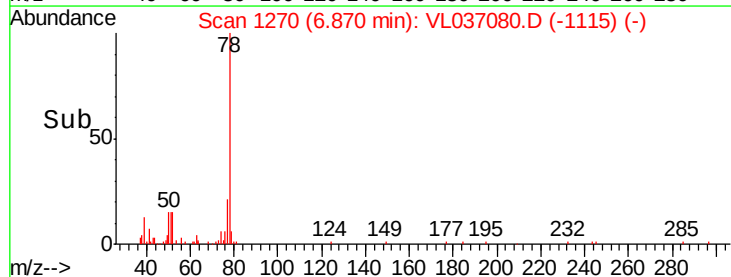
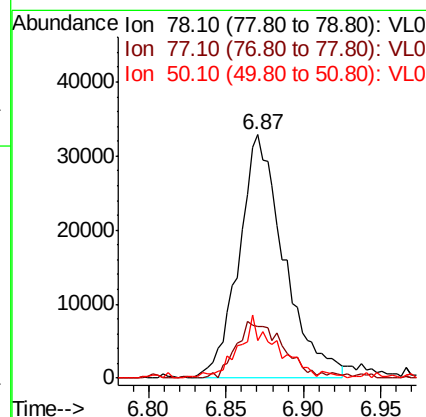
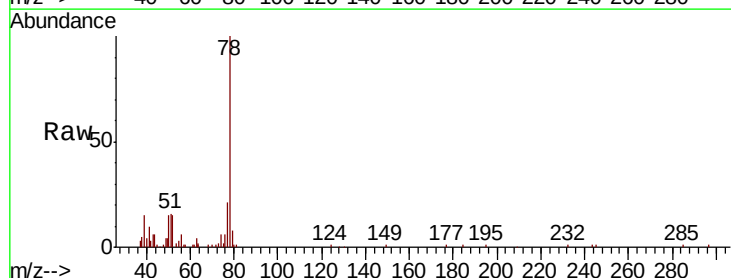
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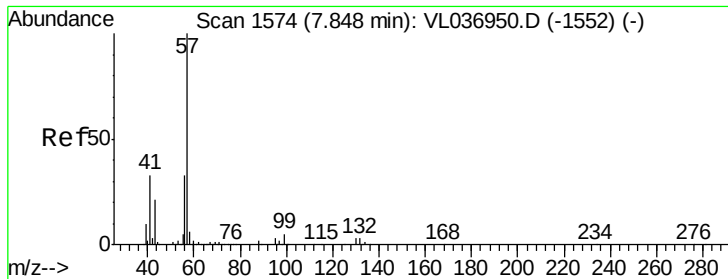
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#36
Benzene
Concen: 0.202 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VL037080.D
Acq: 1 Jun 2021 21:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.6	28.0
50	14.7	15.0	22.4#





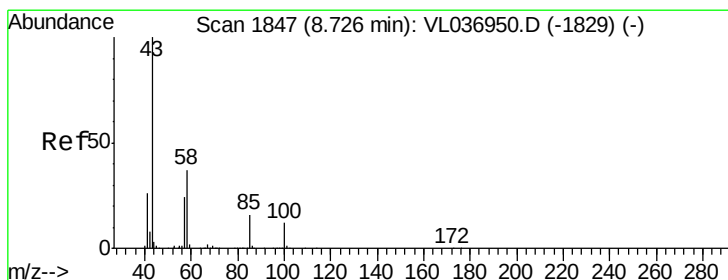
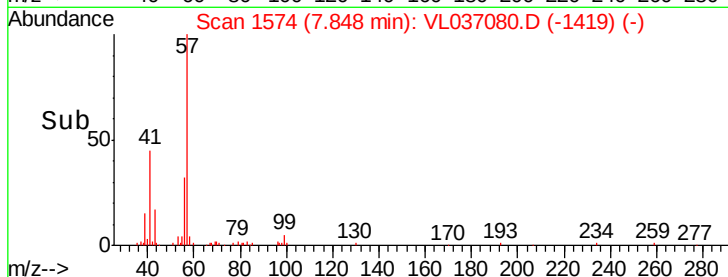
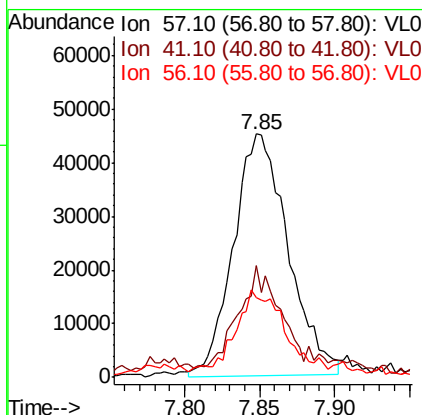
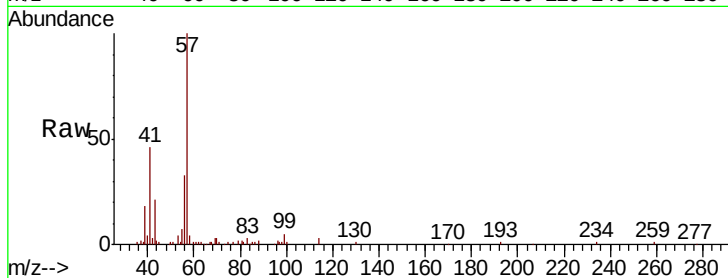
#44
 2,2,4-Trimethylpentane
 Concen: 0.203 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL037080.D
 Acq: 1 Jun 2021 21:37

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	42.7	27.0	40.4#
56	36.8	25.4	38.2

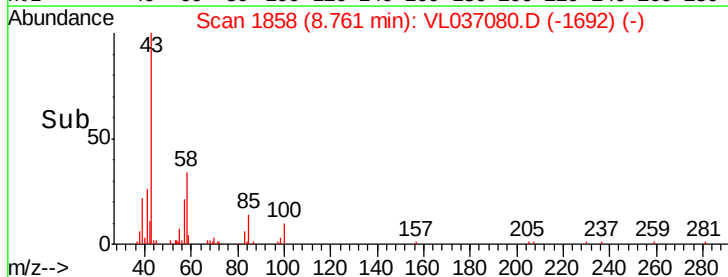
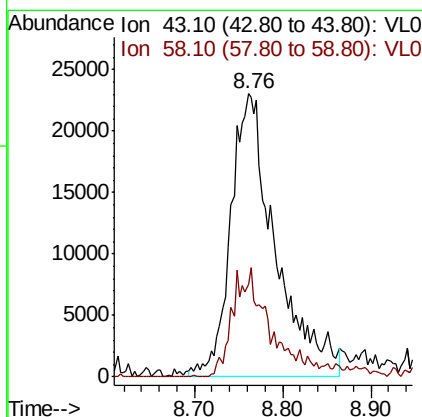
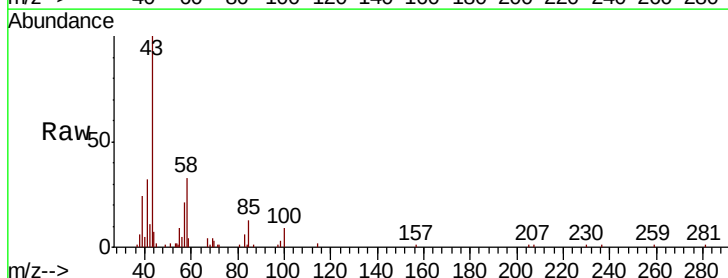
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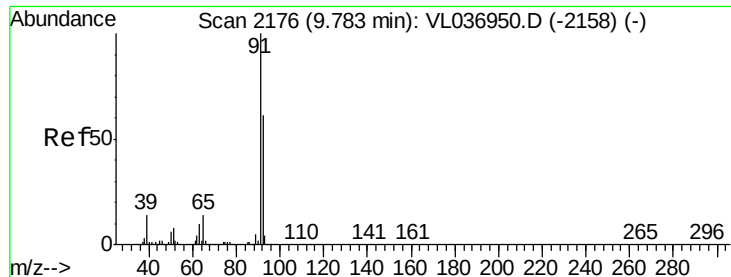
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#50
 4-Methyl-2-Pentanone
 Concen: 0.353 ppbv m
 RT: 8.76 min Scan# 1858
 Delta R.T. 0.04 min
 Lab File: VL037080.D
 Acq: 1 Jun 2021 21:37

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#





#53

Toluene

Concen: 2.610 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037080.D

Acq: 1 Jun 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

Tot Ion: 91 Resp: 1025382

Ion Ratio Lower Upper

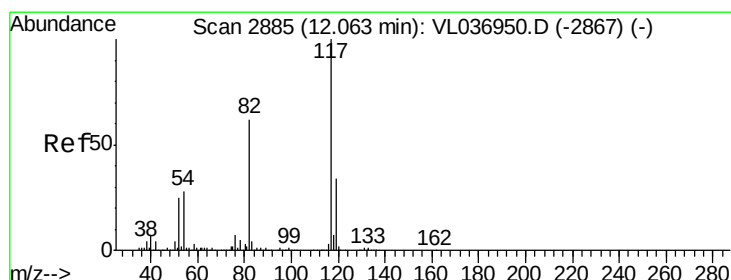
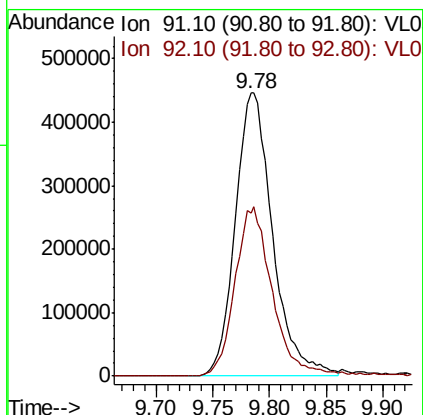
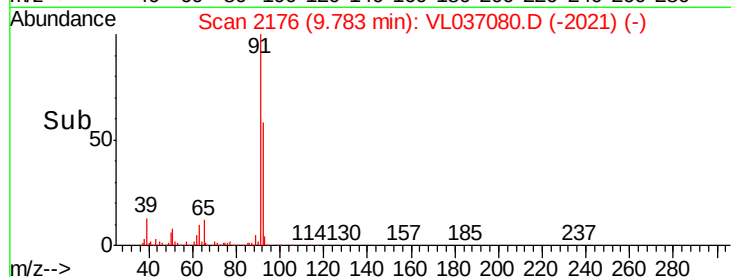
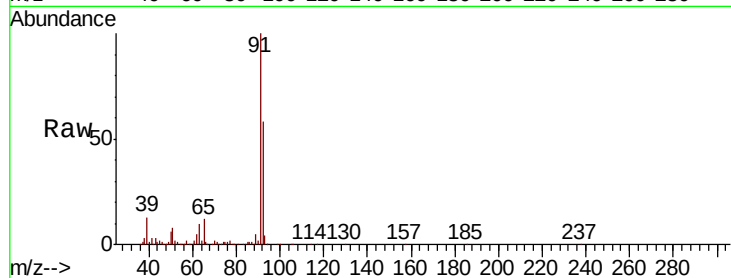
91 100

92 61.2 49.5 74.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037080.D

Acq: 1 Jun 2021 21:37

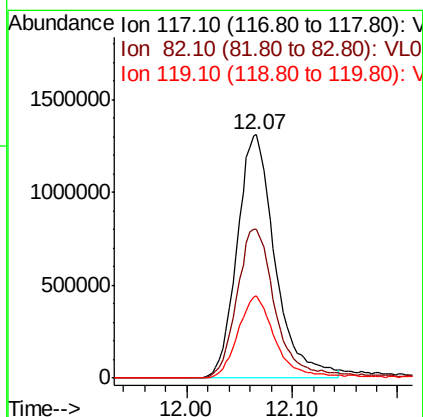
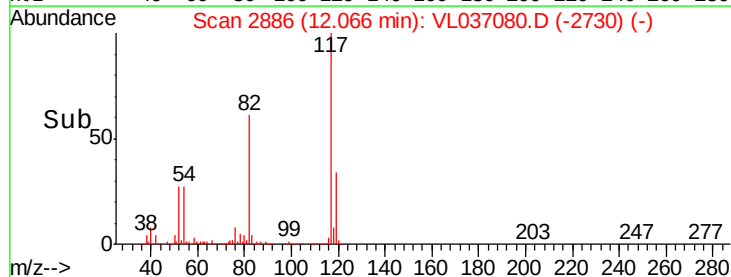
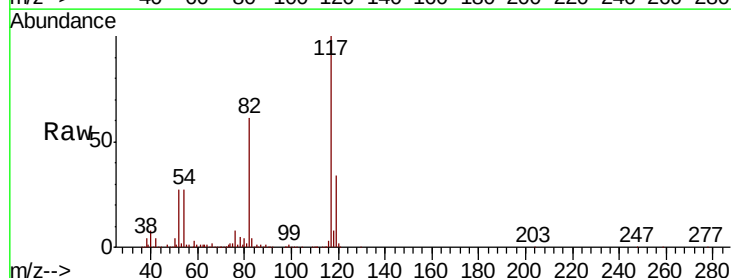
Tgt Ion: 117 Resp: 3281790

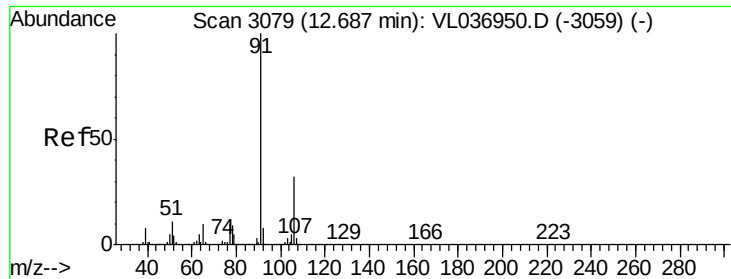
Ion Ratio Lower Upper

117 100

82 63.6 52.6 79.0

119 34.2 46.6 70.0#





#58

Ethyl Benzene

Concen: 0.097 ppbv m

RT: 12.69 min Scan# 3080

Delta R.T. 0.00 min

Lab File: VL037080.D

Acq: 1 Jun 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

Tot Ion: 91 Resp: 44926

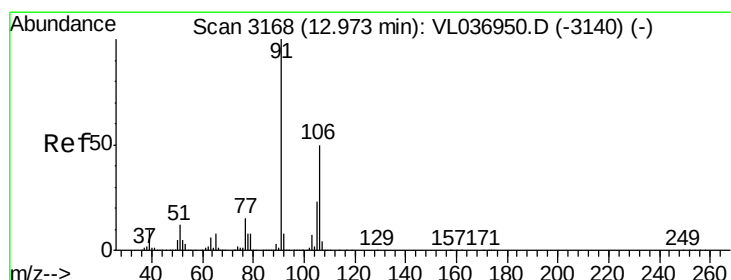
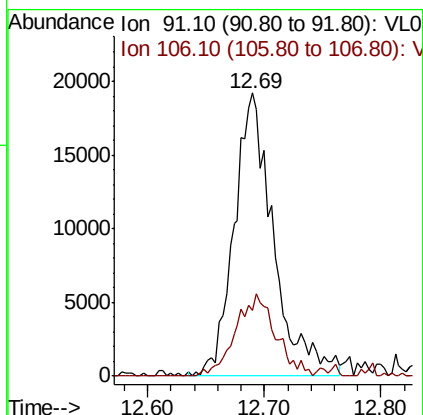
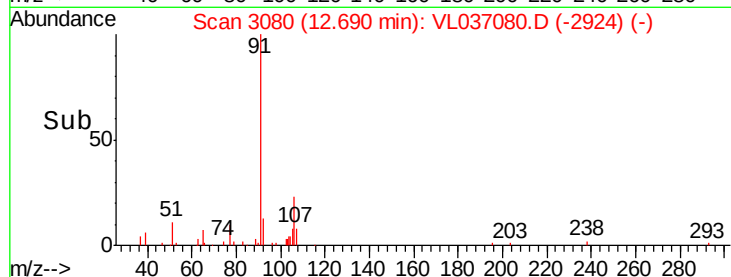
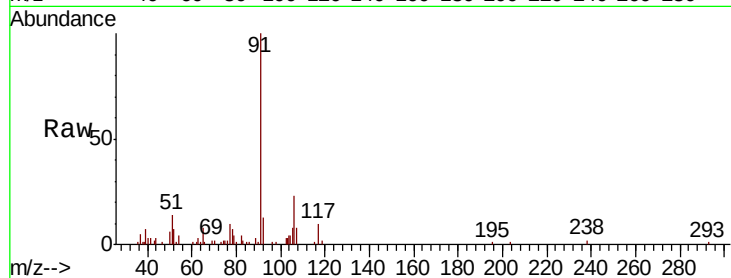
Ion Ratio Lower Upper

91 100

106 23.3 25.6 38.4#

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#59

m/p-Xylene

Concen: 0.150 ppbv m

RT: 12.94 min Scan# 3159

Delta R.T. -0.03 min

Lab File: VL037080.D

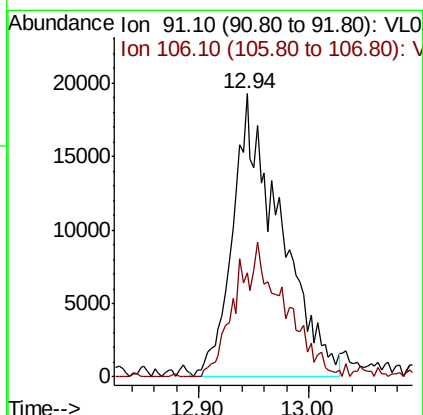
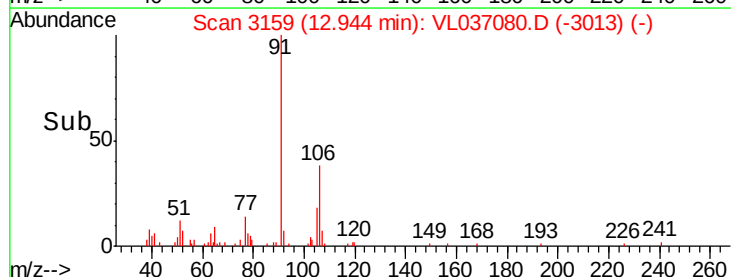
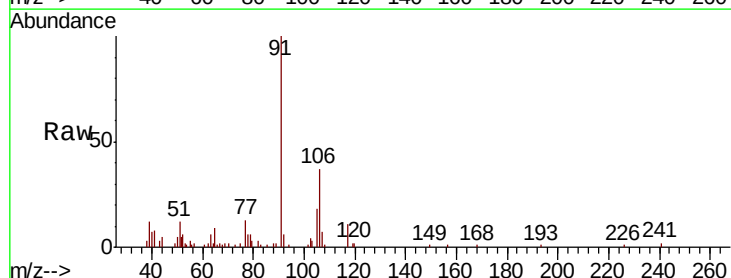
Acq: 1 Jun 2021 21:37

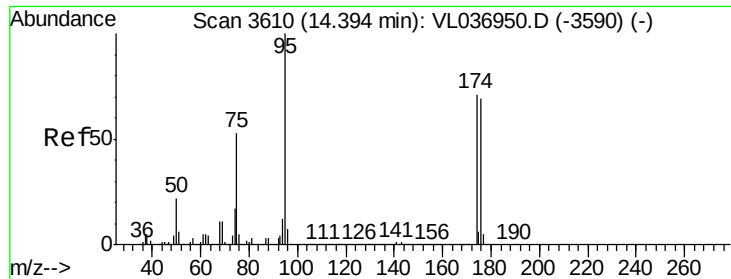
Tgt Ion: 91 Resp: 57594

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.447 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL037080.D
 Acq: 1 Jun 2021 21:37

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	80.3	58.4	87.6	
175	5.9	4.4	6.6	

Manual Integrations
 APPROVED

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