

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
 Data File : VL037693.D
 Acq On : 27 Sep 2021 23:09
 Operator : SY/AP
 Sample : M3948-05 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:32 AM

Quant Time: Sep 28 21:03:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1536075	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4520665	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	4014615	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2830128	9.75	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.02	41	6507609	63.673	ppbv	91
10) Heptane	8.13	43	65262	0.274	ppbv	89
13) Ethanol	3.62	45	39903m	3.992	ppbv	
15) Acetone	3.85	43	8668509	54.315	ppbv	99
20) Methylene Chloride	4.35	84	75039	0.985	ppbv #	89
26) Hexane	5.69	57	226272	1.232	ppbv #	44
34) 2-Butanone	5.25	43	545227	2.968	ppbv	99
36) Benzene	6.90	78	115048m	0.305	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	100749m	0.159	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	152368	0.653	ppbv	95
53) Toluene	9.81	91	323577m	0.772	ppbv	
58) Ethyl Benzene	12.72	91	84008m	0.158	ppbv	
59) m/p-Xylene	12.97	91	228178m	0.491	ppbv	
60) o-Xylene	13.70	91	102816	0.233	ppbv	97
72) 4-Ethyltoluene	15.84	105	47699m	0.094	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	53811m	0.114	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	174022m	0.349	ppbv	

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

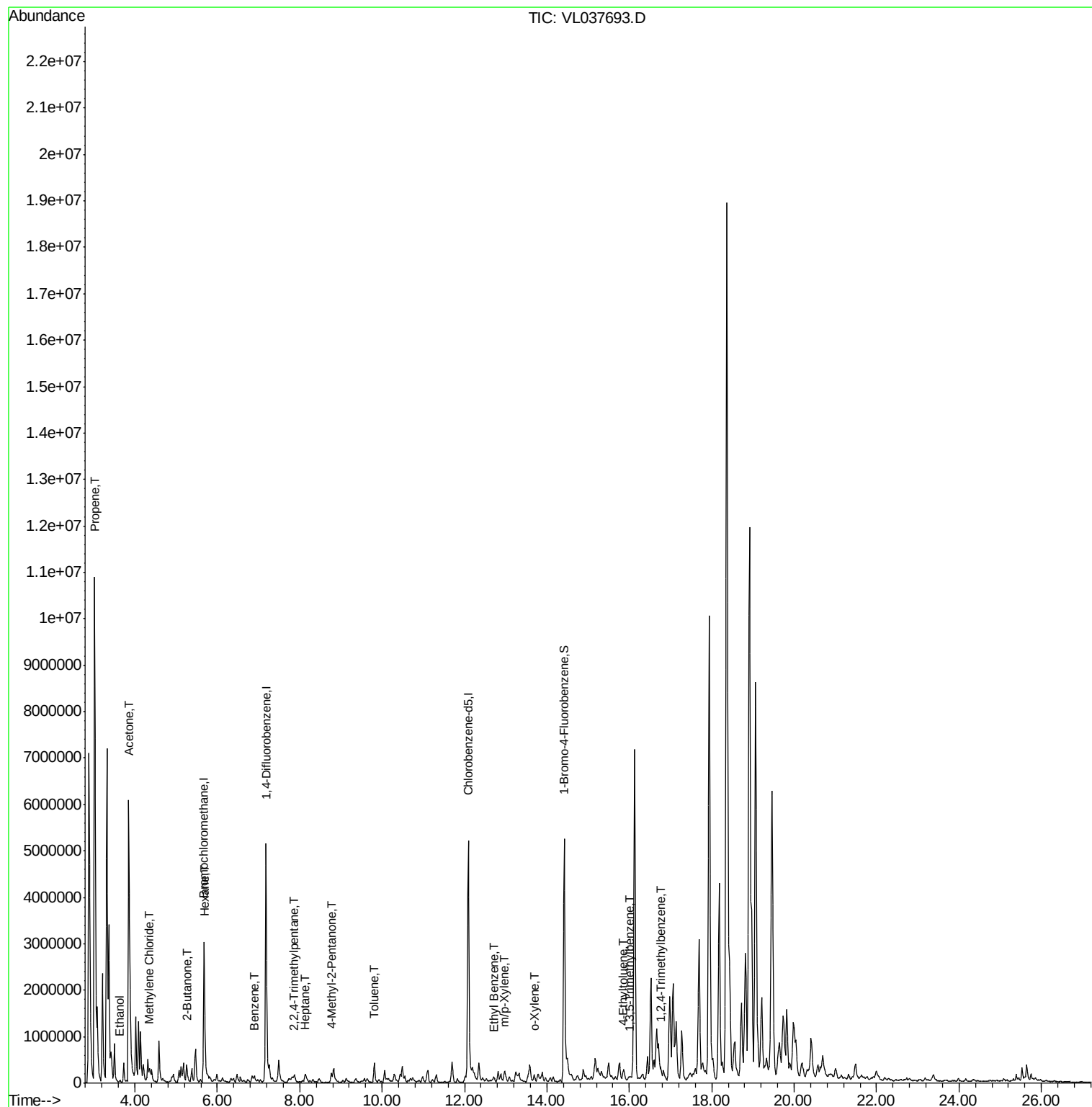
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Data File : VL037693.D
Acq On : 27 Sep 2021 23:09
Operator : SY/AP
Sample : M3948-05 10X
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

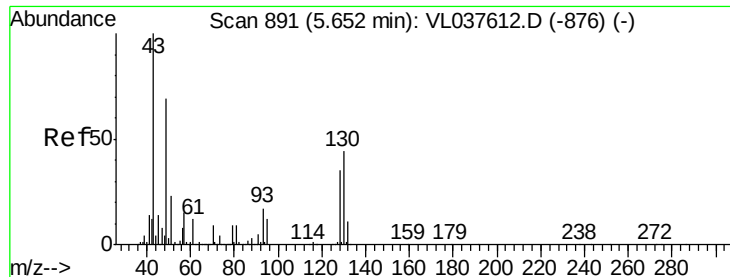
Instrument :
MSVOA_L
ClientSampleId :
SV5

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Quant Time: Sep 28 21:03:00 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.02 min

Lab File: VL037693.D

Acq: 27 Sep 2021 23:09

Instrument :

MSVOA_L

ClientSampleId :

SV5

Tgt Ion: 49 Resp: 1536075

Ion Ratio Lower Upper

49 100

128 52.7 27.9 83.6

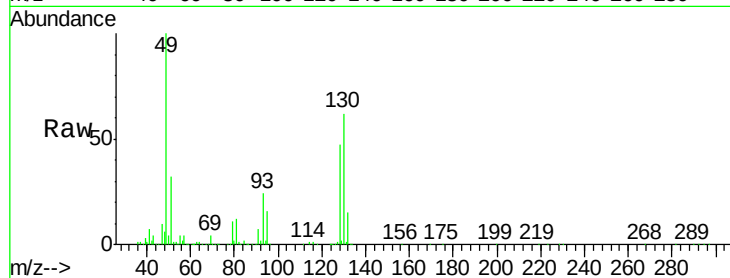
130 67.1 33.9 101.7

Manual Integrations

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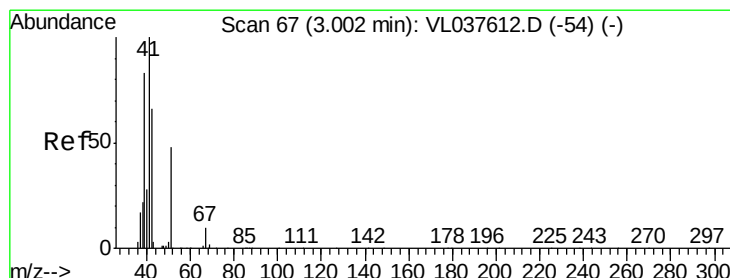
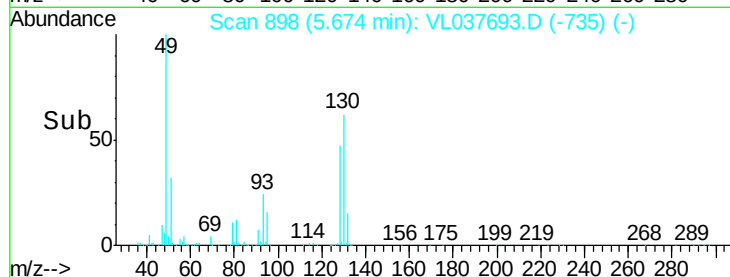
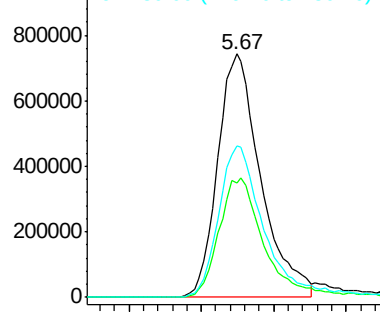
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 63.673 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL037693.D

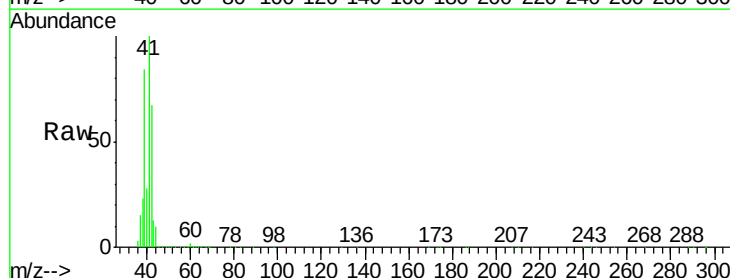
Acq: 27 Sep 2021 23:09

Tgt Ion: 41 Resp: 6507609

Ion Ratio Lower Upper

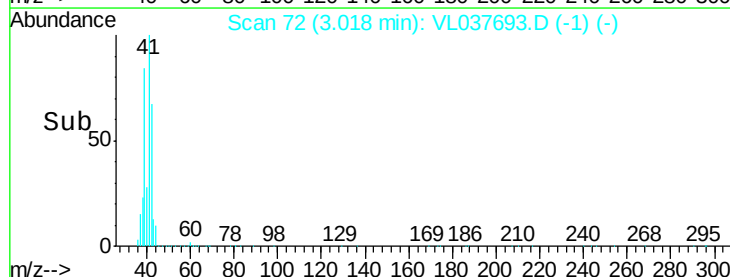
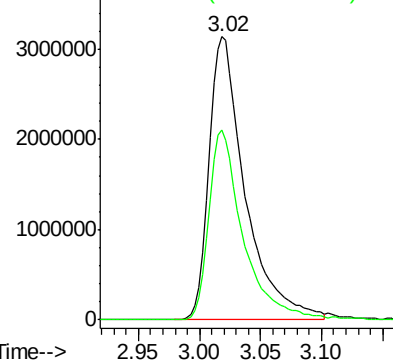
41 100

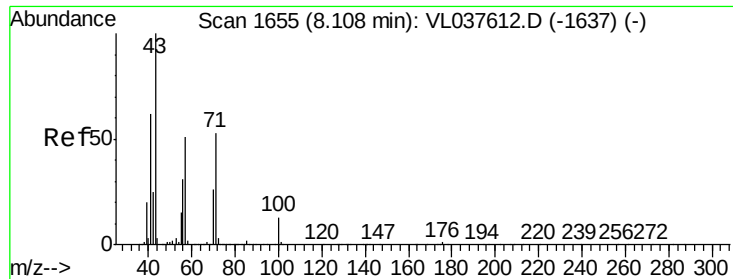
42 64.3 57.2 85.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





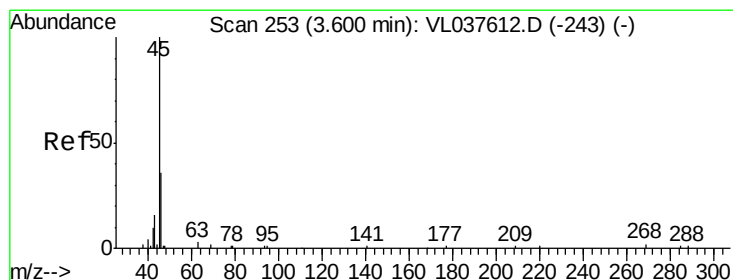
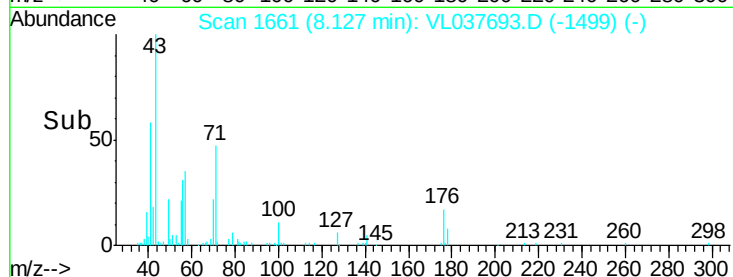
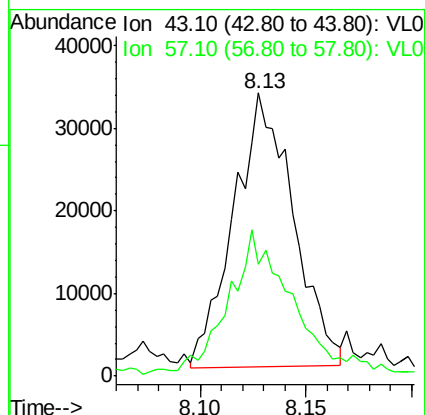
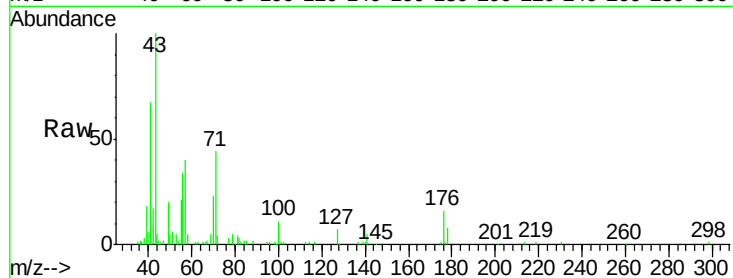
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Heptane
Concen: 0.274 ppbv
RT: 8.13 min Scan# 1661
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Instrument :
MSVOA_L
ClientSampled :
SV5

Tgt Ion: 43 Resp: 65262
Ion Ratio Lower Upper
43 100
57 57.3 40.1 60.1

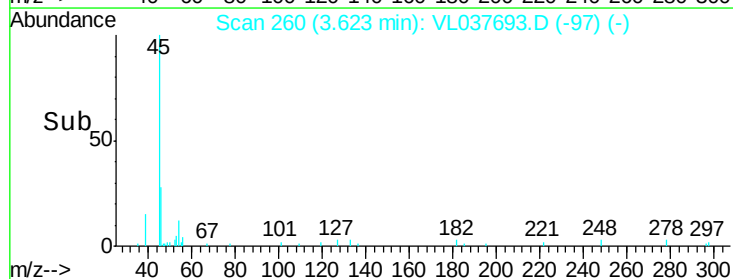
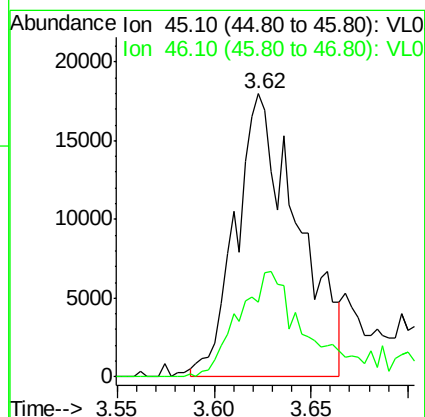
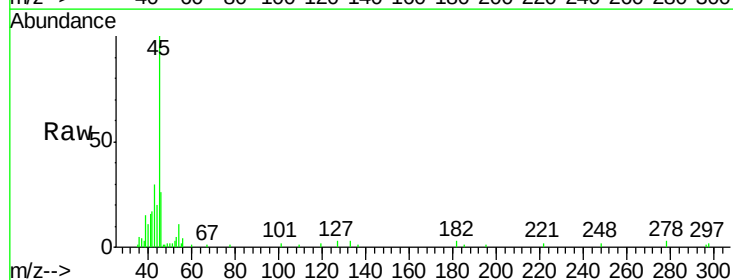
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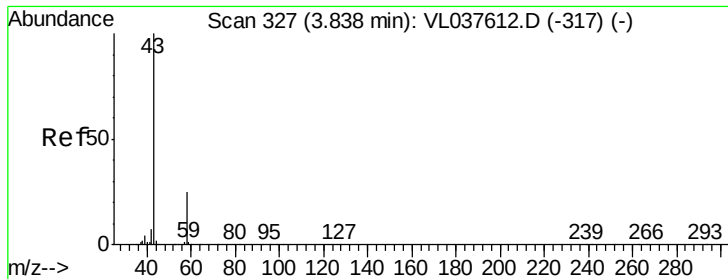
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#13
Ethanol
Concen: 3.992 ppbv m
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Tgt Ion: 45 Resp: 39903
Ion Ratio Lower Upper
45 100
46 0.0 17.2 68.8#





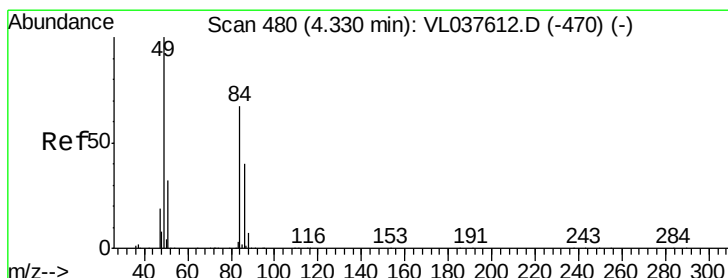
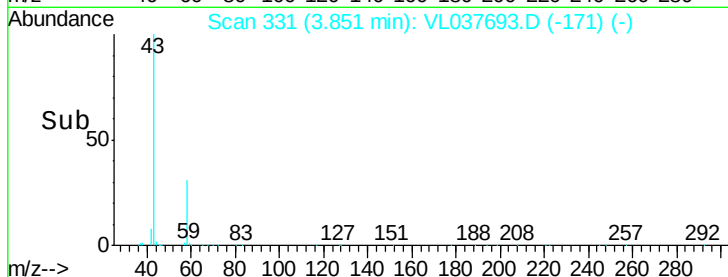
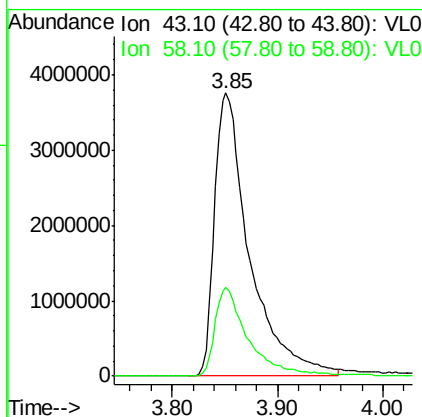
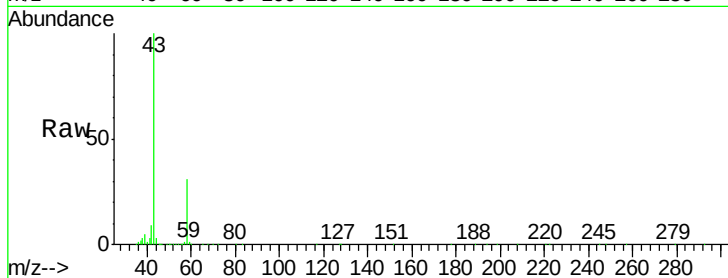
#15
Acetone
Concen: 54.315 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Instrument :
MSVOA_L
ClientSampleId :
SV5

Tgt Ion: 43 Resp: 8668509
Ion Ratio Lower Upper
43 100
58 30.6 24.9 37.3

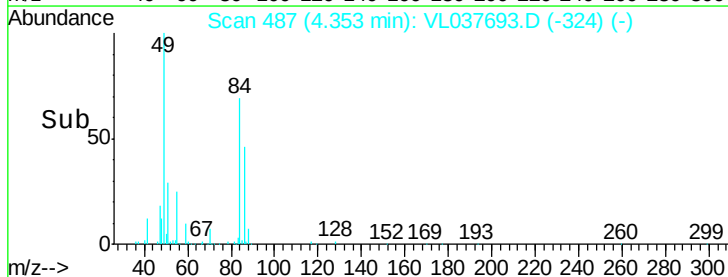
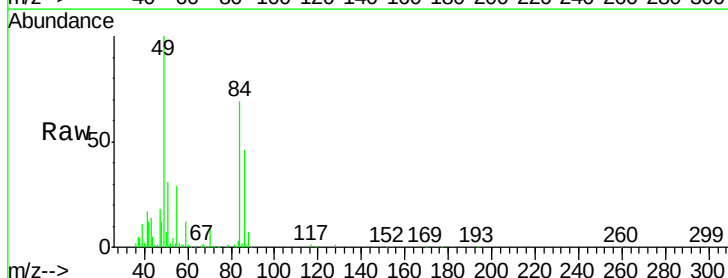
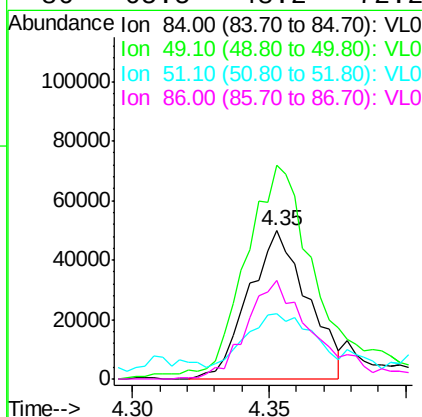
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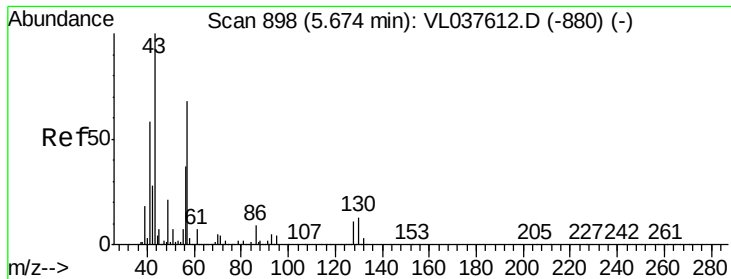
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#20
Methylene Chloride
Concen: 0.985 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Tgt Ion: 84 Resp: 75039
Ion Ratio Lower Upper
84 100
49 137.7 120.0 180.0
51 32.7 38.0 57.0#
86 65.5 48.2 72.2





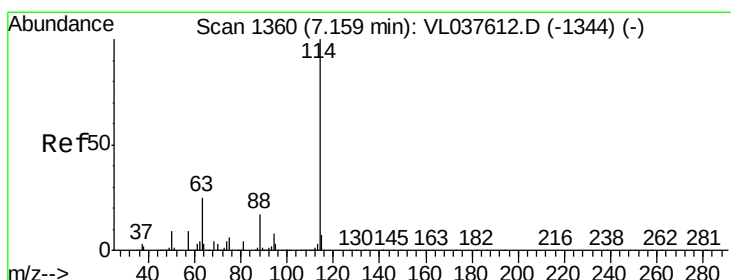
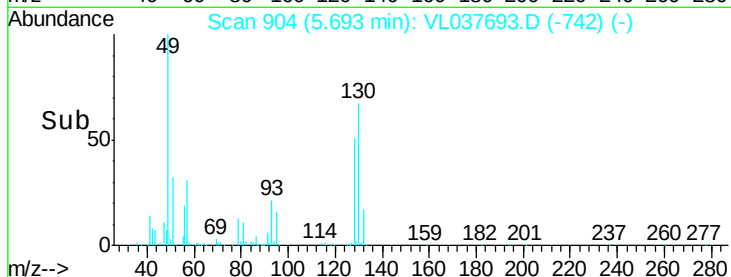
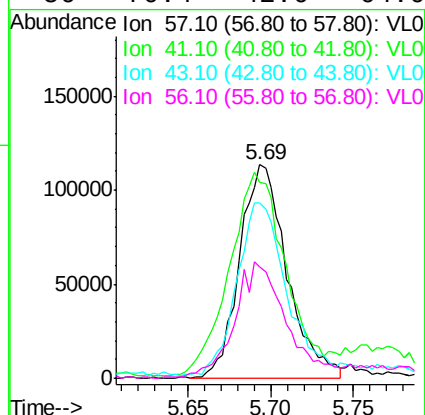
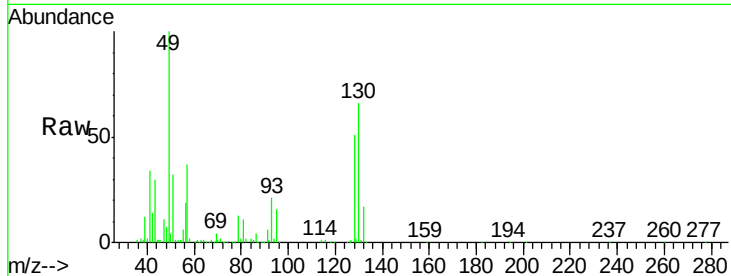
#26
Hexane
Concen: 1.232 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Instrument :
MSVOA_L
ClientSampled :
SV5

Tgt Ion	Ratio	Lower	Upper
57	100		
41	113.4	70.9	106.3#
43	92.9	170.4	255.6#
56	70.4	42.6	64.0#

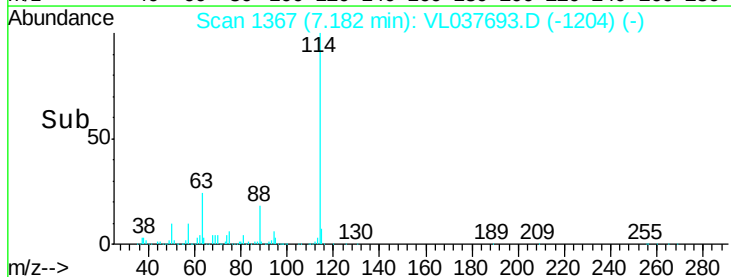
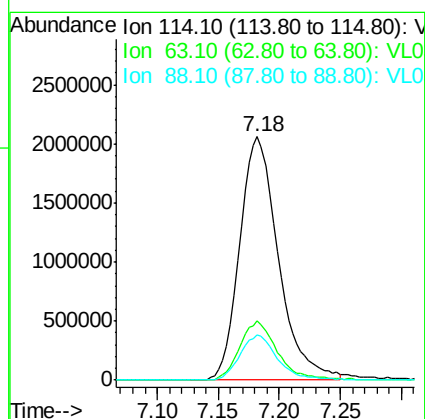
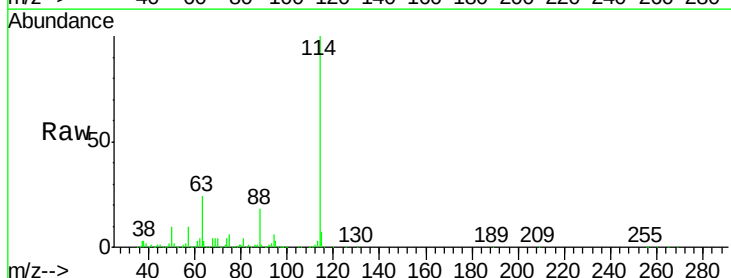
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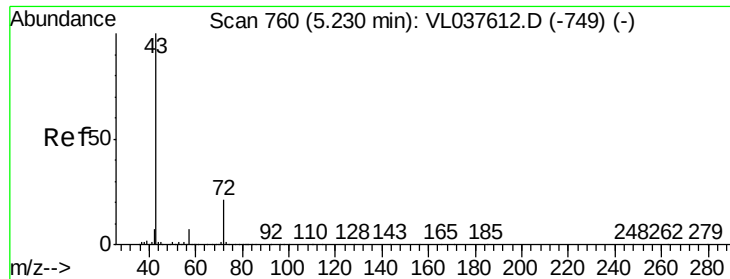
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.6	29.4
88	18.2	14.2	21.4





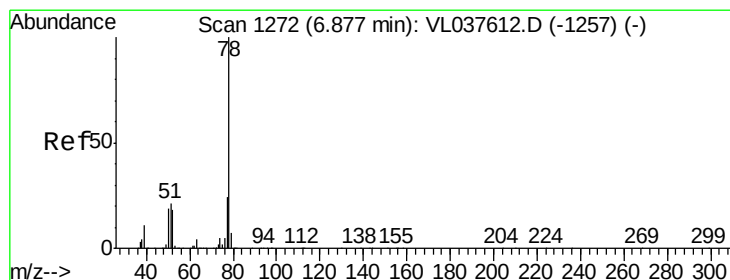
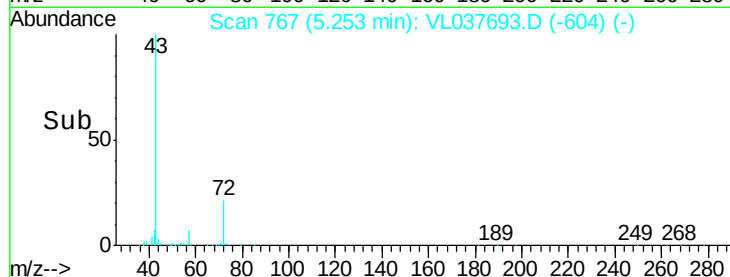
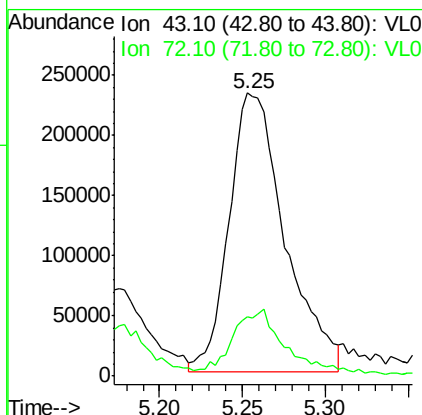
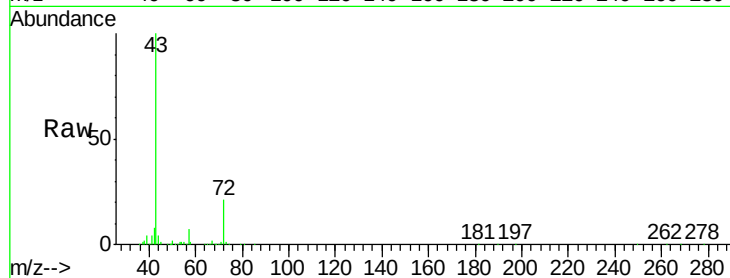
#34
2-Butanone
Concen: 2.968 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Instrument :
MSVOA_L
ClientSampled :
SV5

Tgt Ion: 43 Resp: 545227
Ion Ratio Lower Upper
43 100
72 23.3 18.4 27.6

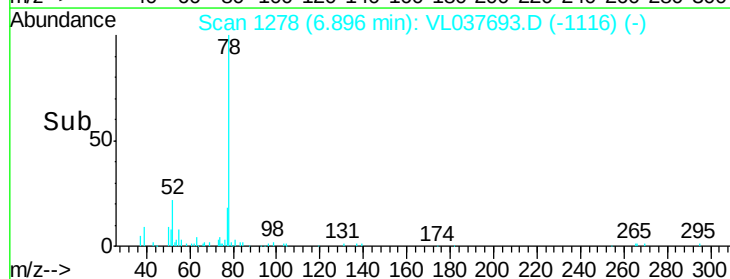
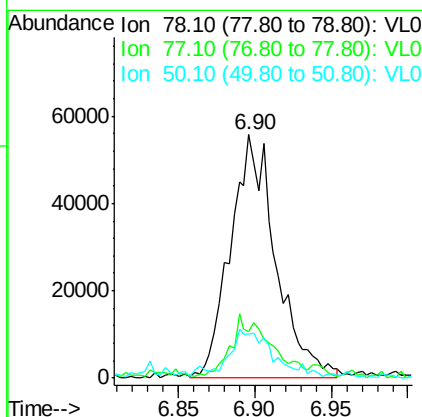
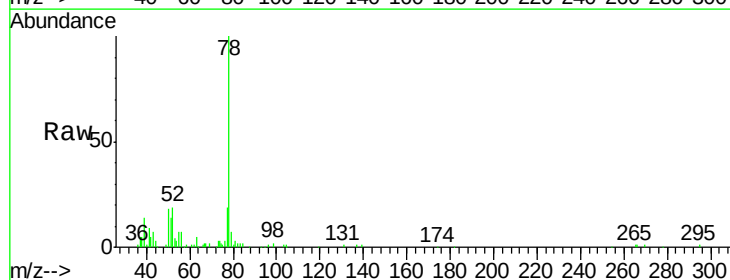
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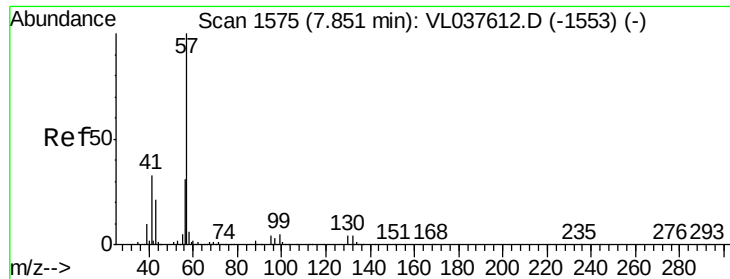
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#36
Benzene
Concen: 0.305 ppbv m
RT: 6.90 min Scan# 1278
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Tgt Ion: 78 Resp: 115048
Ion Ratio Lower Upper
78 100
77 19.3 19.0 28.4
50 17.9 14.8 22.2





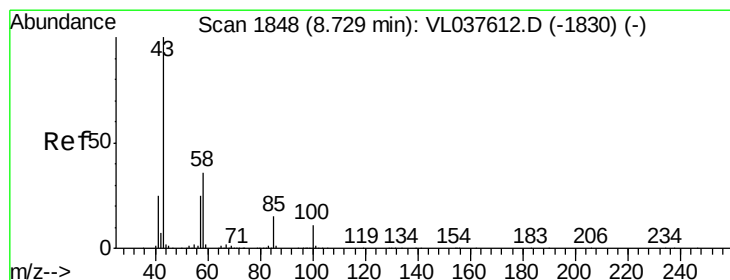
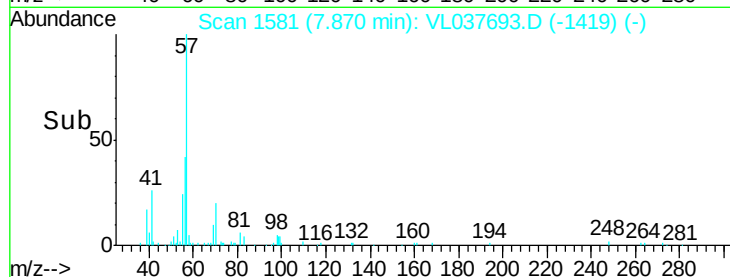
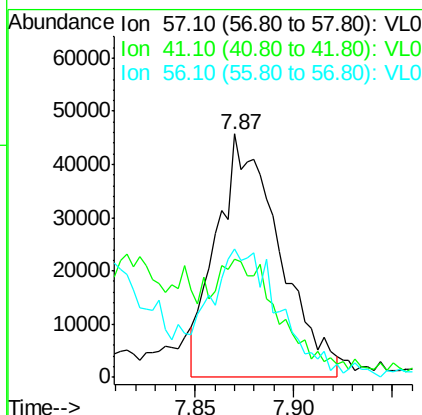
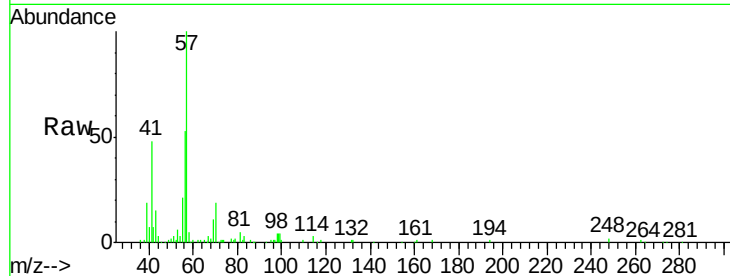
#44
 2,2,4-Trimethylpentane
 Concen: 0.159 ppbv m
 RT: 7.87 min Scan# 1581
 Delta R.T. 0.02 min
 Lab File: VL037693.D
 Acq: 27 Sep 2021 23:09

Instrument :
 MSVOA_L
 ClientSampled :
 SV5

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.1	39.1#
56	0.0	25.7	38.5#

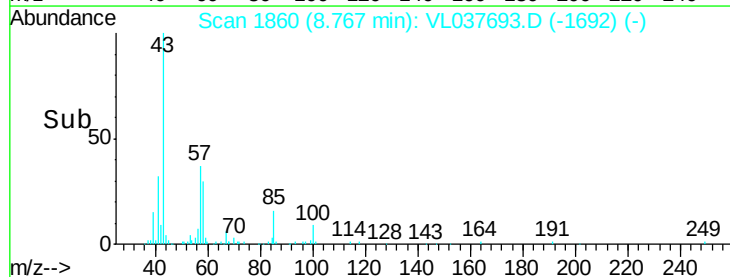
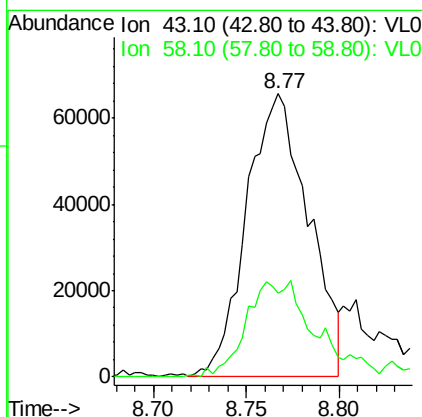
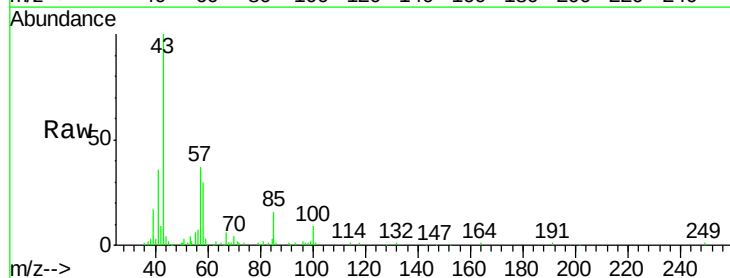
Manual Integrations
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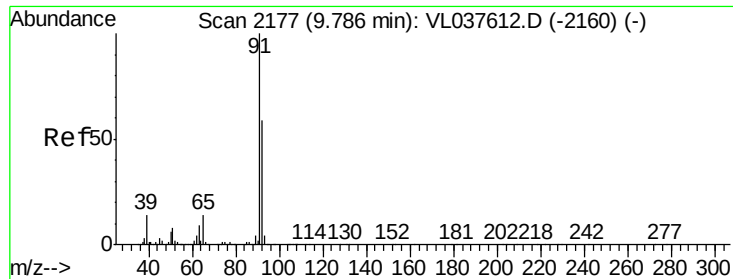
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#50
 4-Methyl-2-Pentanone
 Concen: 0.653 ppbv
 RT: 8.77 min Scan# 1860
 Delta R.T. 0.04 min
 Lab File: VL037693.D
 Acq: 27 Sep 2021 23:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.9	29.4	44.2





#53

Toluene

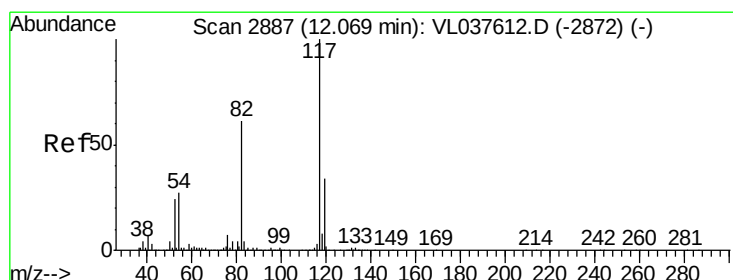
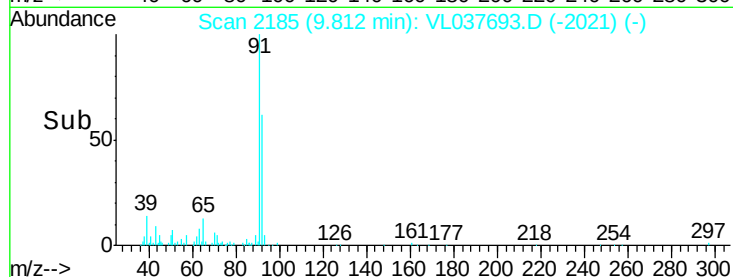
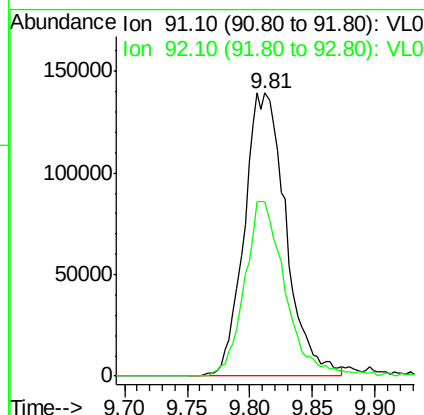
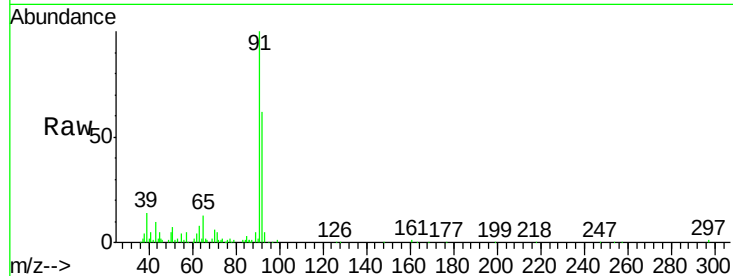
Concen: 0.772 ppbv m
RT: 9.81 min Scan# 2185
Delta R.T. 0.03 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Instrument :
MSVOA_L
ClientSampleId :
SV5

Tgt Ion: 91 Resp: 323577
Ion Ratio Lower Upper
91 100
92 0.0 48.9 73.3#

Manual Integrations
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MMDadoda
10/1/2021 11:05:32 AM

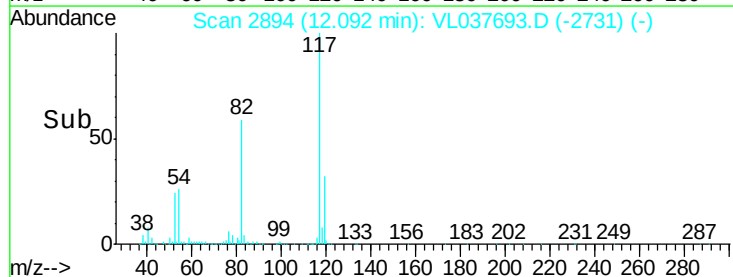
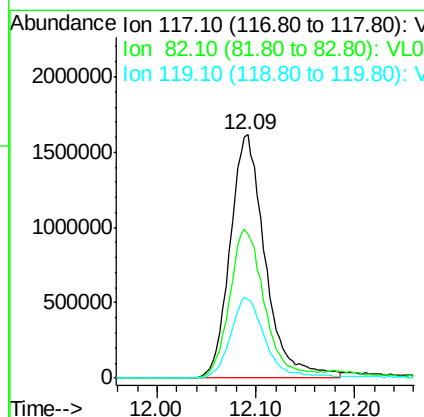
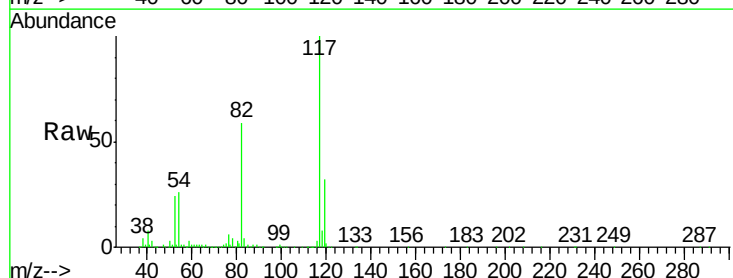


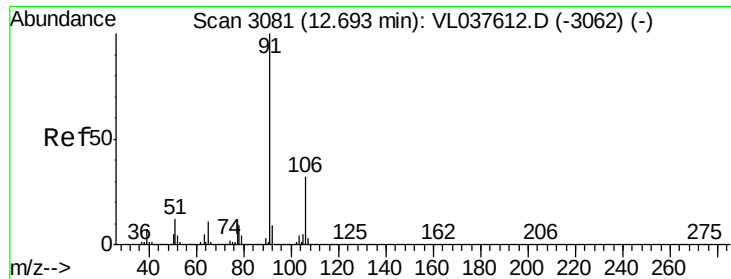
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Tgt Ion: 117 Resp: 4014615
Ion Ratio Lower Upper
117 100
82 61.0 50.6 75.8
119 33.8 26.2 39.2





#58

Ethyl Benzene

Concen: 0.158 ppbv m

RT: 12.72 min Scan# 3089

Delta R.T. 0.03 min

Lab File: VL037693.D

Acq: 27 Sep 2021 23:09

Instrument :

MSVOA_L

ClientSampled :

SV5

Tgt Ion: 91 Resp: 84008

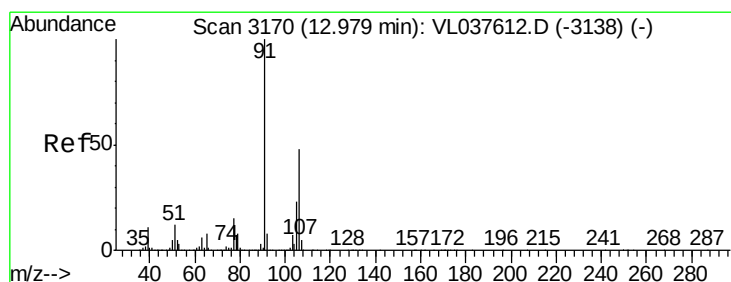
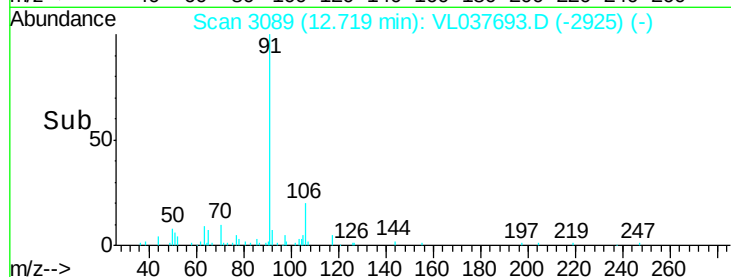
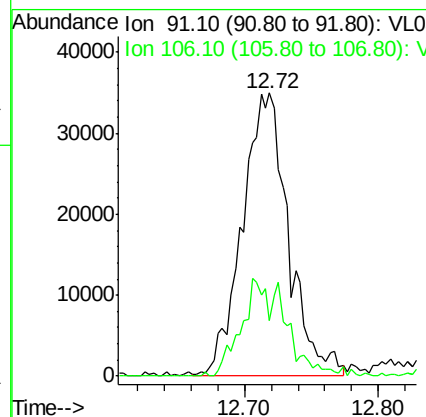
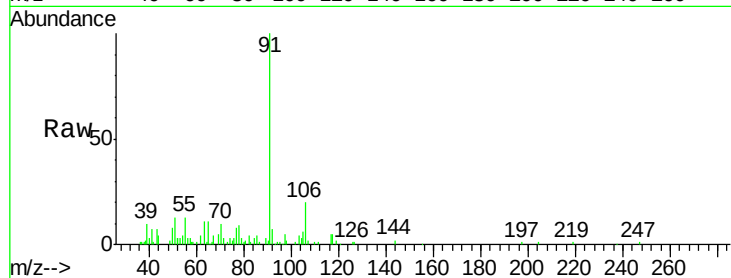
Ion Ratio Lower Upper

91 100

106 19.6 25.3 37.9#

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#59

m/p-Xylene

Concen: 0.491 ppbv m

RT: 12.97 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL037693.D

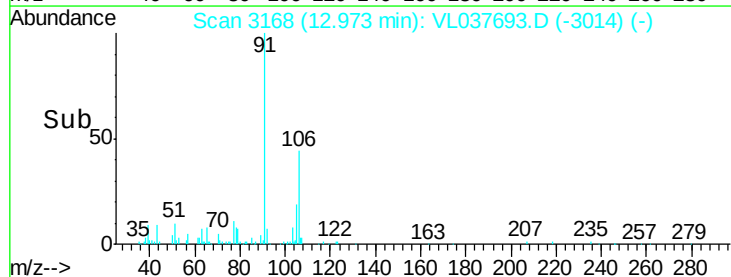
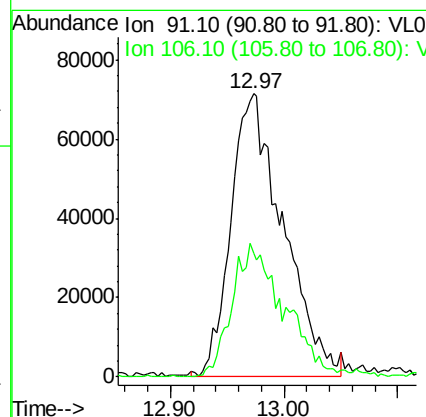
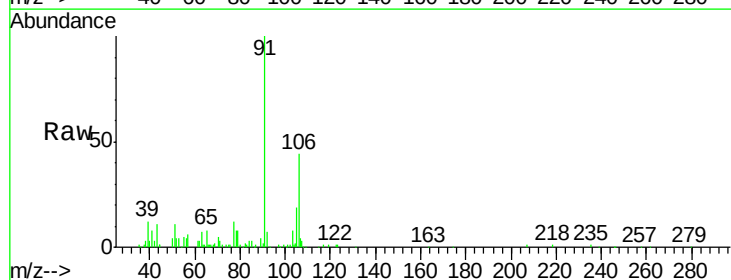
Acq: 27 Sep 2021 23:09

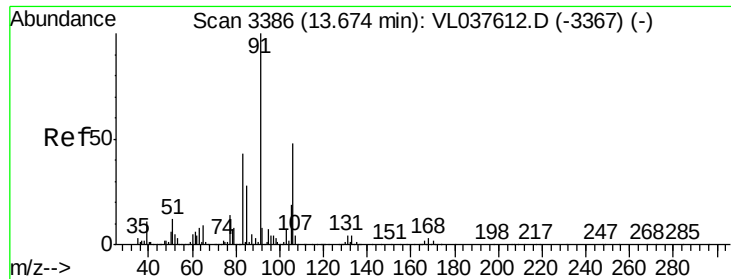
Tgt Ion: 91 Resp: 228178

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#





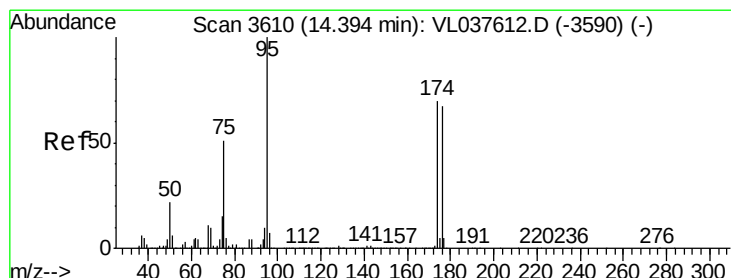
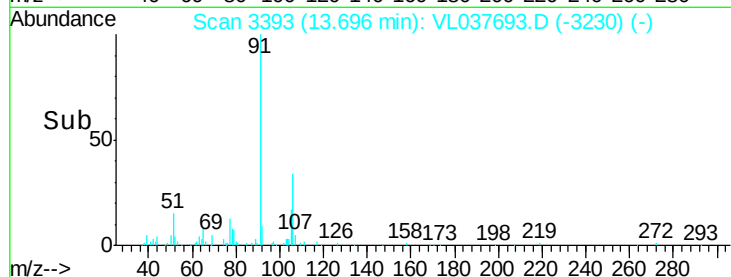
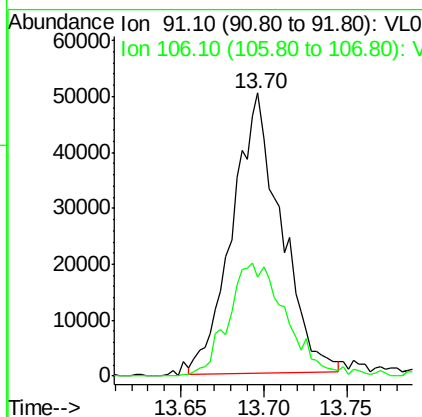
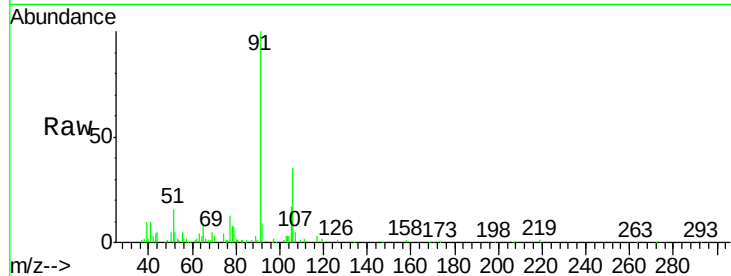
#60
o-Xylene
Concen: 0.233 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. 0.02 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Instrument :
MSVOA_L
ClientSampled :
SV5

Tgt Ion: 91 Resp: 102816
Ion Ratio Lower Upper
91 100
106 48.3 23.0 69.0

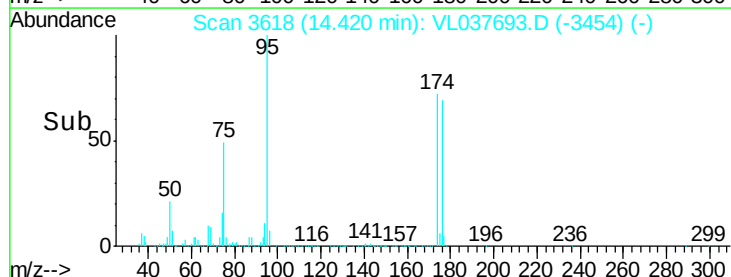
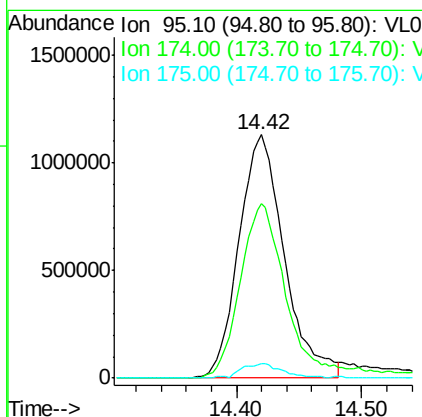
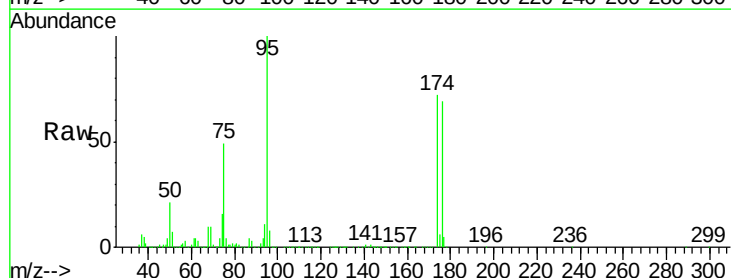
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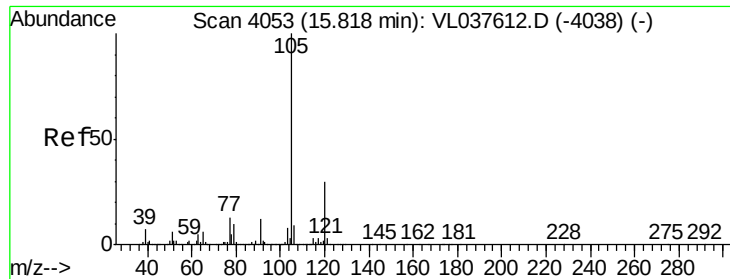
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.754 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. 0.03 min
Lab File: VL037693.D
Acq: 27 Sep 2021 23:09

Tgt Ion: 95 Resp: 2830128
Ion Ratio Lower Upper
95 100
174 78.1 56.3 84.5
175 5.8 4.4 6.6





#72

4-Ethyltoluene

Concen: 0.094 ppbv m

RT: 15.84 min Scan# 4060

Delta R.T. 0.02 min

Lab File: VL037693.D

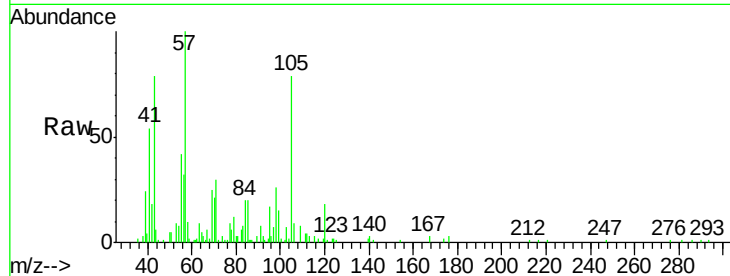
Acq: 27 Sep 2021 23:09

Instrument :

MSVOA_L

ClientSampleId :

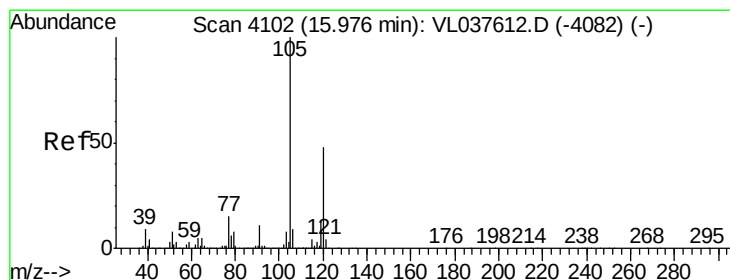
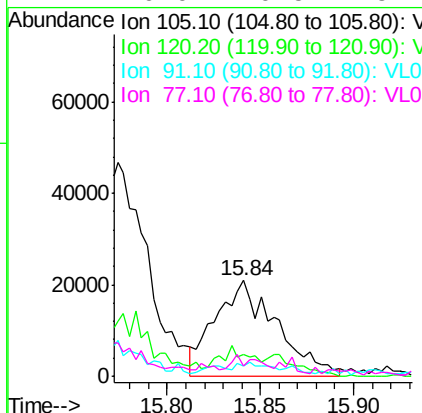
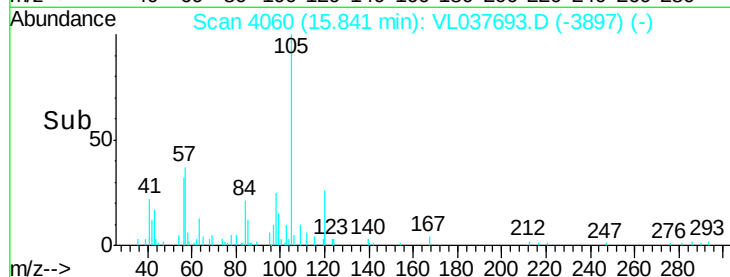
SV5



Tgt Ion	Ratio	Resp	Lower	Upper
105	100	47699		
120	0.0	24.7	37.1#	
91	0.0	9.9	14.9#	
77	0.0	10.5	15.7#	

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#73

1,3,5-Trimethylbenzene

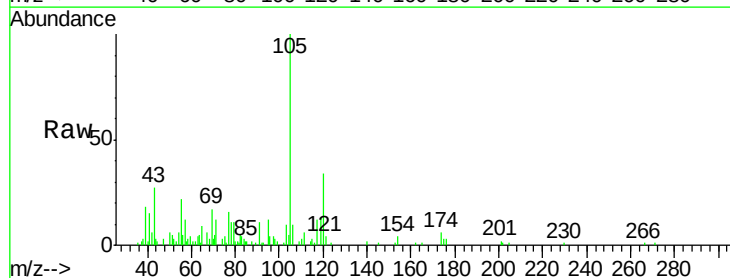
Concen: 0.114 ppbv m

RT: 16.00 min Scan# 4110

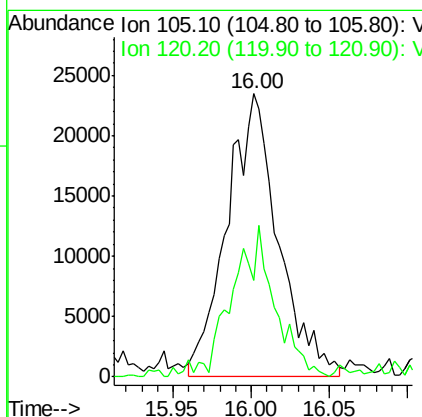
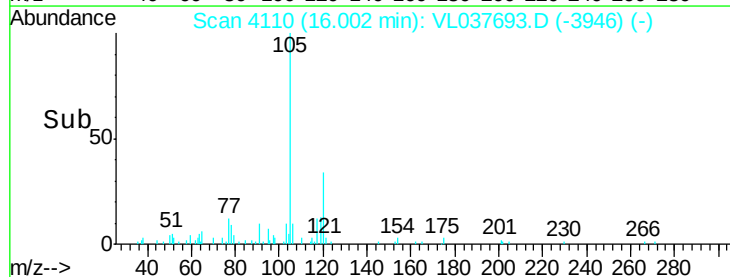
Delta R.T. 0.03 min

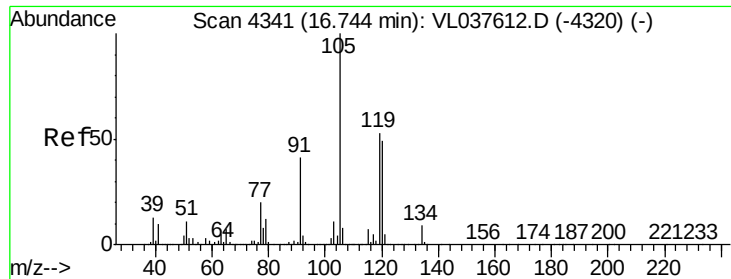
Lab File: VL037693.D

Acq: 27 Sep 2021 23:09



Tgt Ion	Ratio	Resp	Lower	Upper
105	100	53811		
120	33.9	38.3	57.5#	





#74
 1,2,4-Trimethylbenzene
 Concen: 0.349 ppbv m
 RT: 16.76 min Scan# 4347
 Delta R.T. 0.02 min
 Lab File: VL037693.D
 Acq: 27 Sep 2021 23:09

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	38.9	39.4	59.0#
91	14.0	33.3	49.9#
77	12.5	15.7	23.5#

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:32 AM

