

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037232.D
 Acq On : 23 Jun 2021 1:10
 Operator : SY/AP
 Sample : M2797-03 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
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 6/24/2021 4:33:36 PM

Quant Time: Jun 24 09:31:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1794329	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4975937	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4443046	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	3328448	9.89	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	1109313	3.179	ppbv	99
4) Chloromethane	3.13	50	14835	0.128	ppbv	89
9) Propene	3.01	41	2128463	19.079	ppbv	97
10) Heptane	8.12	43	60497	0.224	ppbv	94
13) Ethanol	3.61	45	325998m	18.890	ppbv	
15) Acetone	3.84	43	10395776	51.377	ppbv	90
17) tert-Butyl alcohol	4.30	59	188635	1.009	ppbv #	94
19) Isopropyl Alcohol	3.97	45	70330m	0.574	ppbv	
20) Methylene Chloride	4.35	84	110279	0.910	ppbv	96
26) Hexane	5.69	57	130064	0.587	ppbv #	1
27) Carbon Disulfide	4.55	76	48563m	0.224	ppbv	
29) Chloroform	5.76	83	88475m	0.259	ppbv	
34) 2-Butanone	5.24	43	14657611	75.742	ppbv	92
36) Benzene	6.89	78	142103	0.353	ppbv #	92
44) 2,2,4-Trimethylpentane	7.87	57	81165m	0.120	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	29808	0.112	ppbv #	81
51) 2-Hexanone	10.14	43	1402263	10.843	ppbv #	97
52) Tetrachloroethene	11.22	164	18090m	0.097	ppbv	
53) Toluene	9.81	91	678119	1.411	ppbv	98
58) Ethyl Benzene	12.71	91	150537	0.246	ppbv	97
59) m/p-Xylene	12.97	91	452837m	0.874	ppbv	
60) o-Xylene	13.69	91	150633m	0.305	ppbv	
72) 4-Ethyltoluene	15.84	105	77051	0.137	ppbv #	91
74) 1,2,4-Trimethylbenzene	16.76	105	216858	0.388	ppbv #	69

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

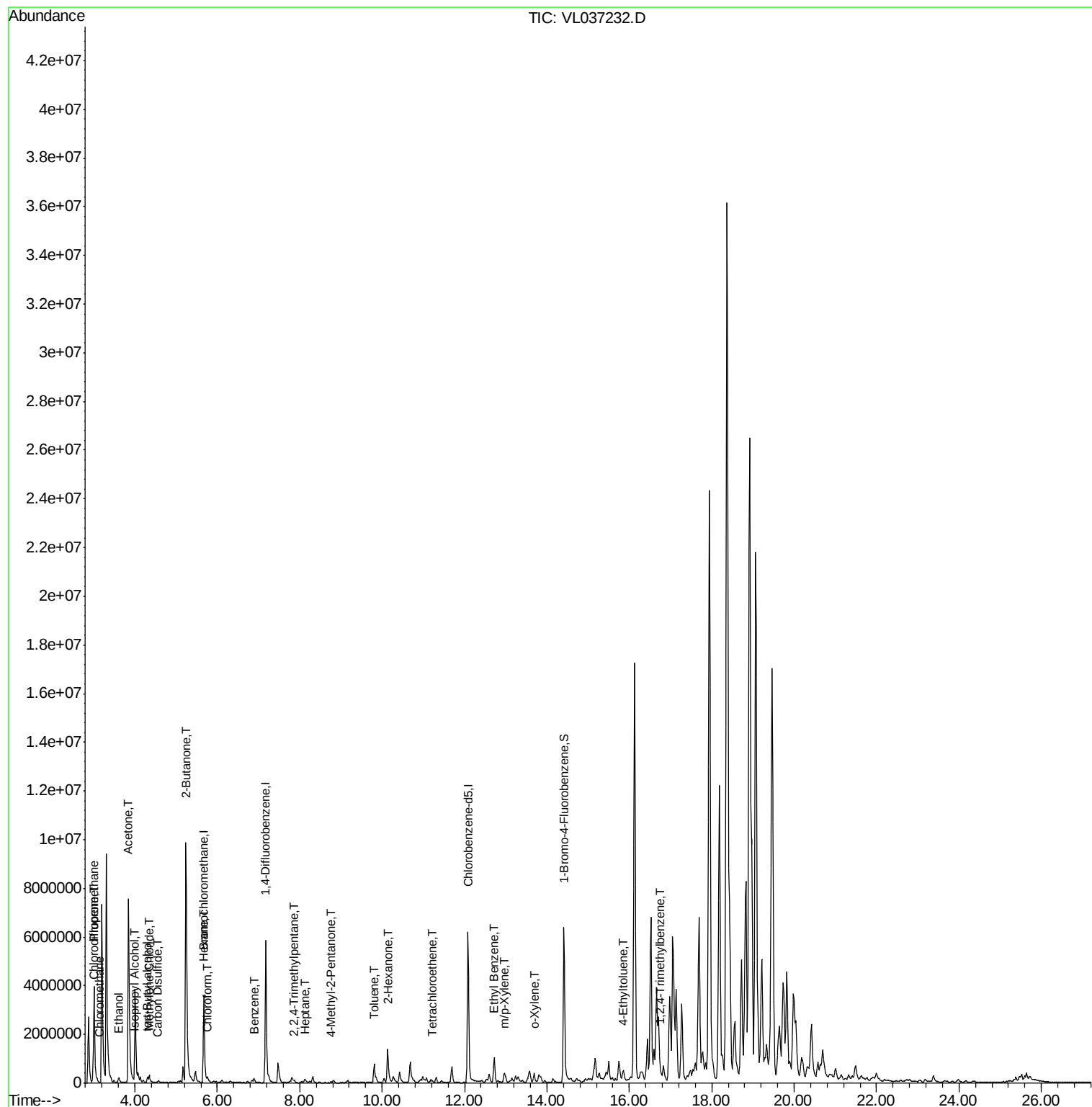
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062221\
Data File : VL037232.D
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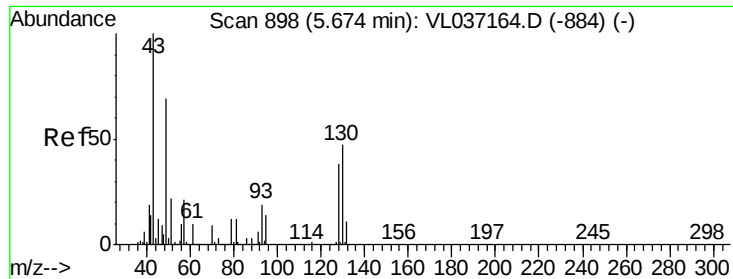
Instrument :
MSVOA_L
ClientSampleId :
SV3

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Quant Time: Jun 24 09:31:53 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 49 Resp: 1794329

Ion Ratio Lower Upper

49 100

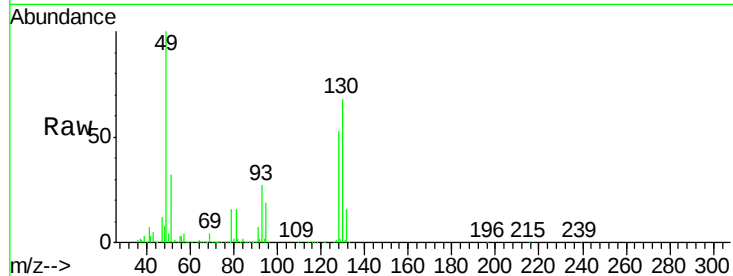
128 52.4 29.3 88.0

130 68.1 35.9 107.8

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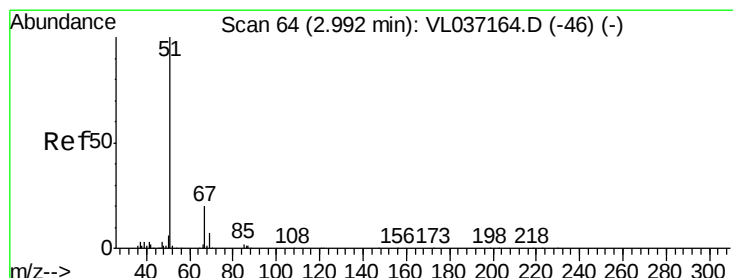
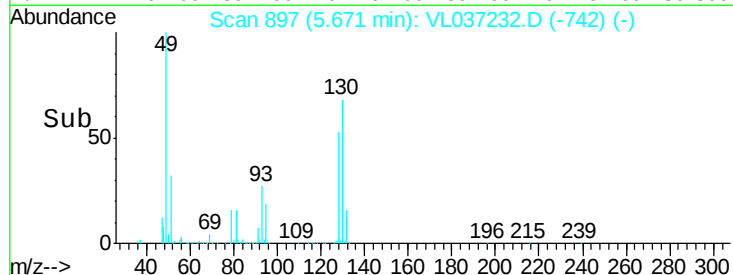
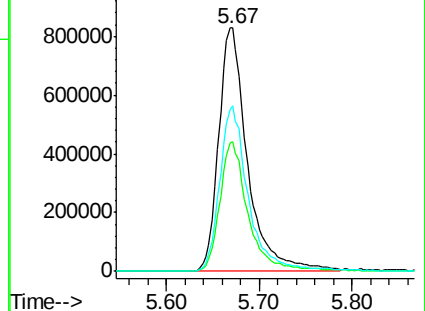
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 3.179 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL037232.D

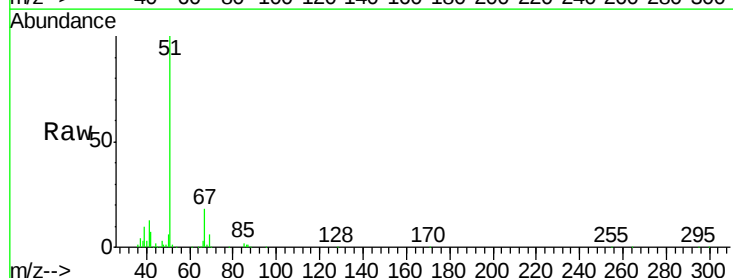
Acq: 23 Jun 2021 1:10

Tgt Ion: 51 Resp: 1109313

Ion Ratio Lower Upper

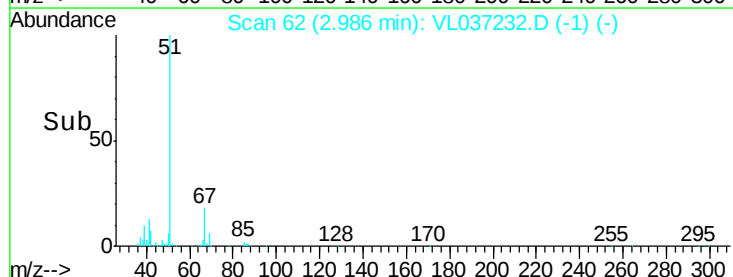
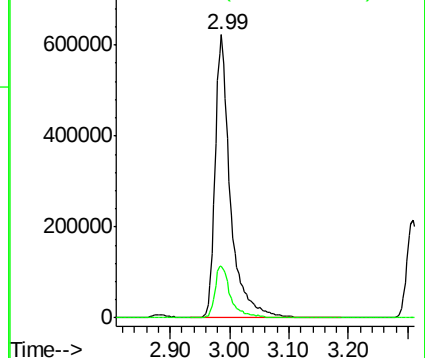
51 100

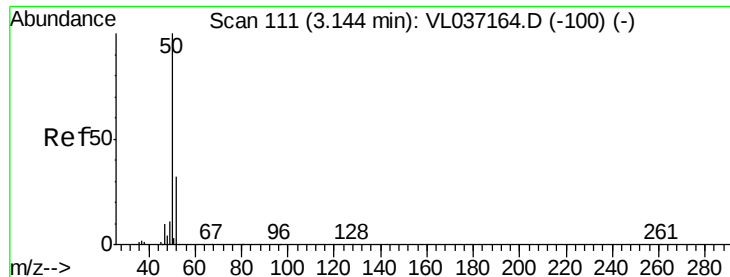
67 19.0 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.128 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tot Ion: 50 Resp: 14835

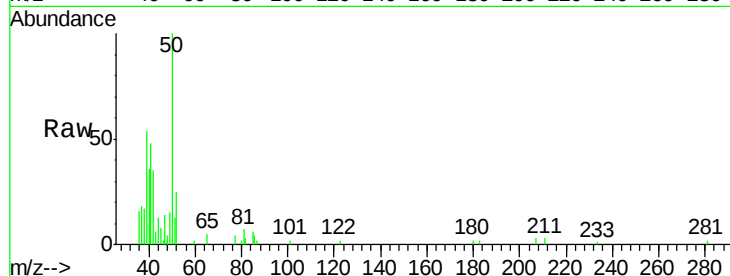
Ion Ratio Lower Upper

50 100

52 26.3 25.8 38.8

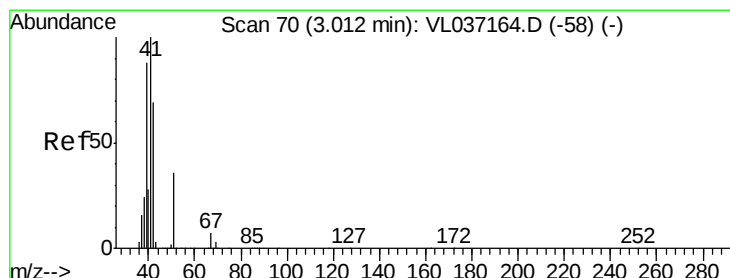
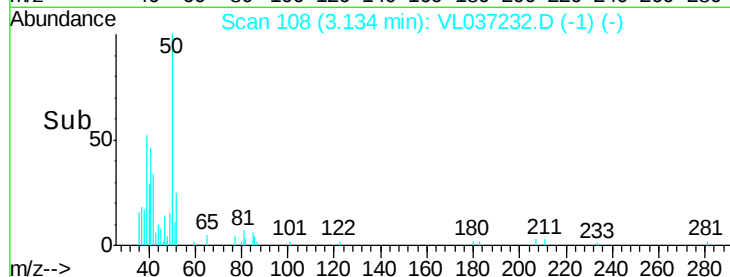
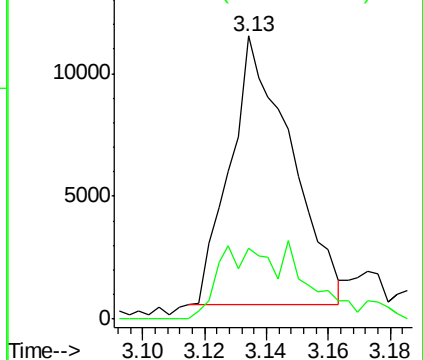
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 19.079 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037232.D

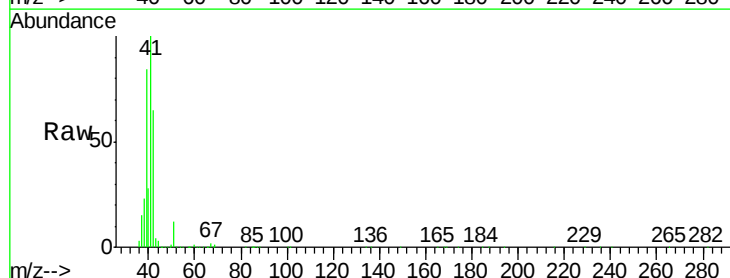
Acq: 23 Jun 2021 1:10

Tgt Ion: 41 Resp: 2128463

Ion Ratio Lower Upper

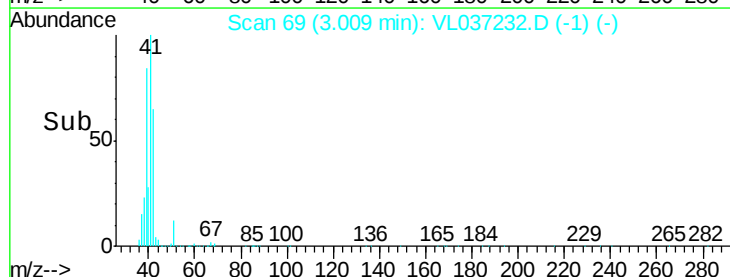
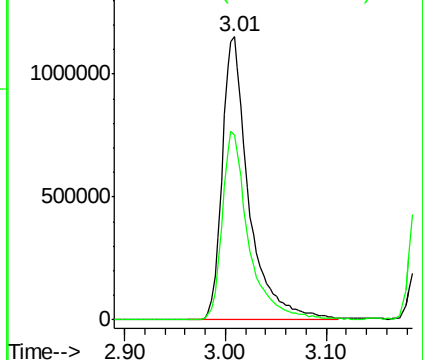
41 100

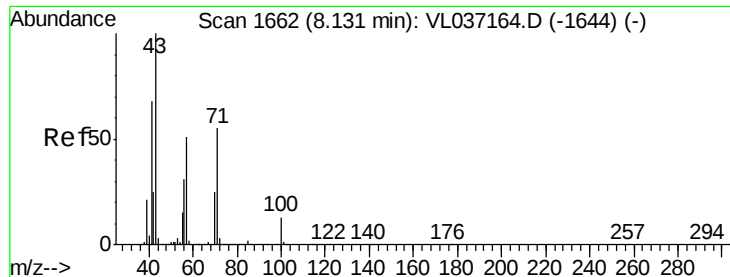
42 66.0 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





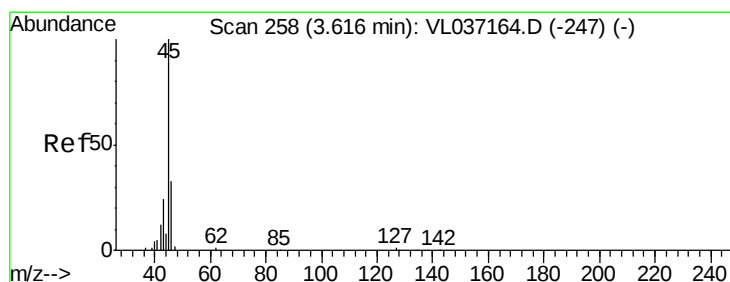
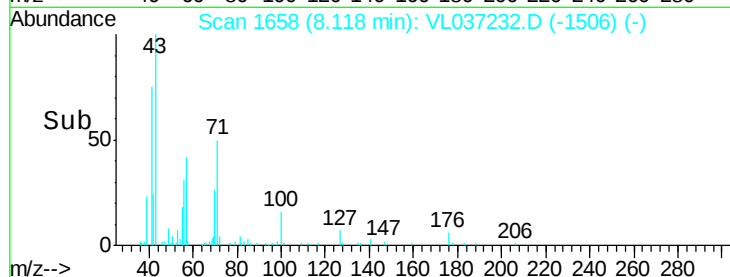
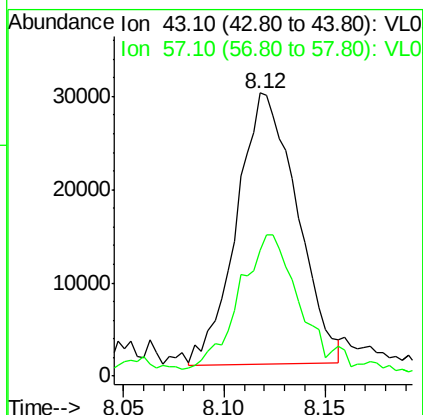
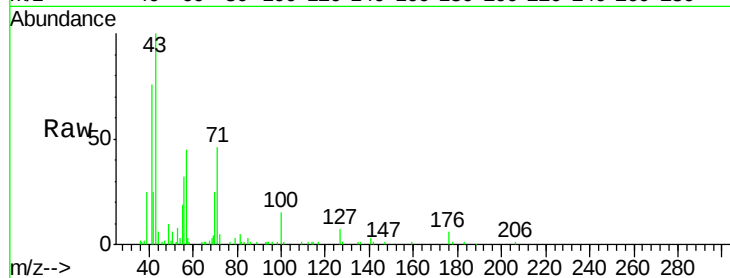
#10
Heptane
Concen: 0.224 ppbv
RT: 8.12 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tot Ion: 43 Resp: 60497
Ion Ratio Lower Upper
43 100
57 55.0 40.6 61.0

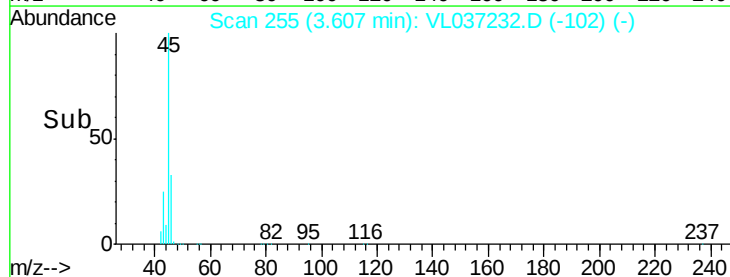
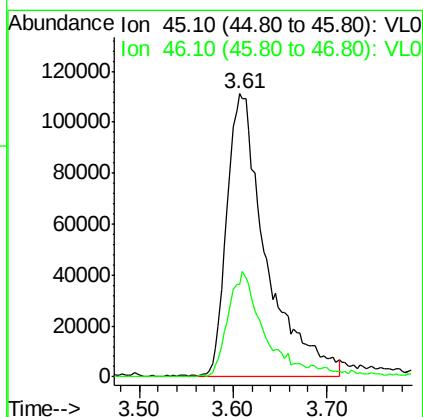
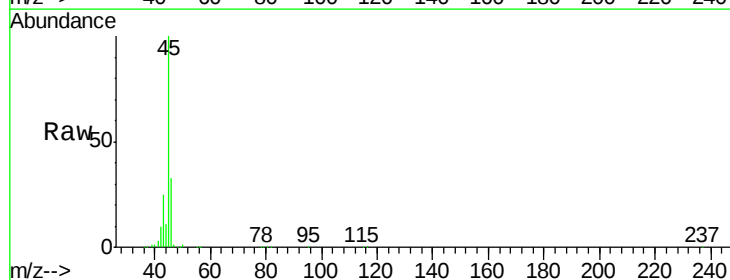
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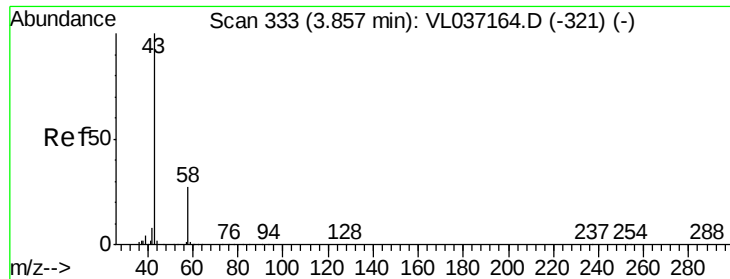
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#13
Ethanol
Concen: 18.890 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. -0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Tgt Ion: 45 Resp: 325998
Ion Ratio Lower Upper
45 100
46 37.1 34.2 137.0





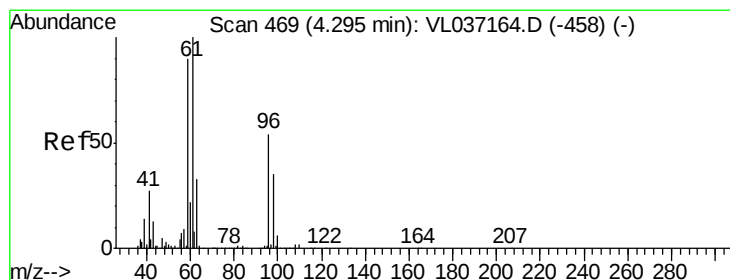
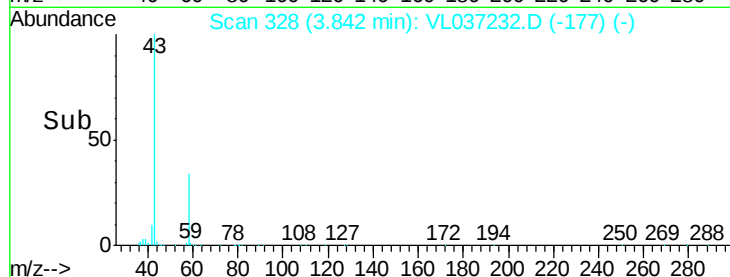
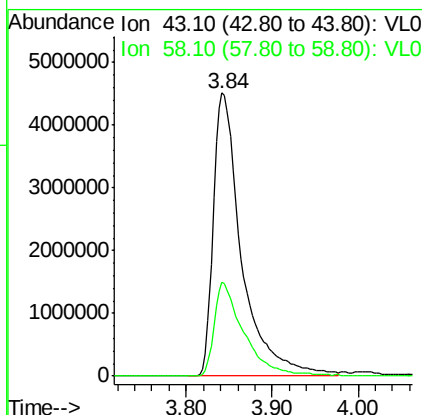
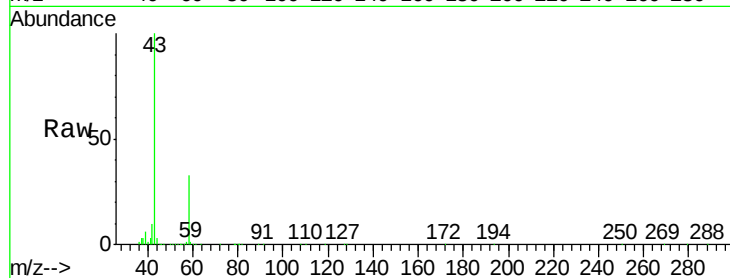
#15
Acetone
Concen: 51.377 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.02 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion: 43 Resp:10395776
Ion Ratio Lower Upper
43 100
58 35.3 23.7 35.5

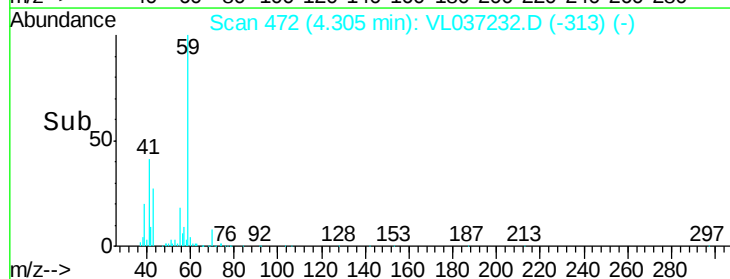
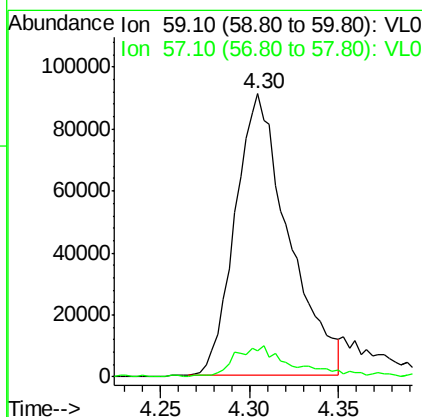
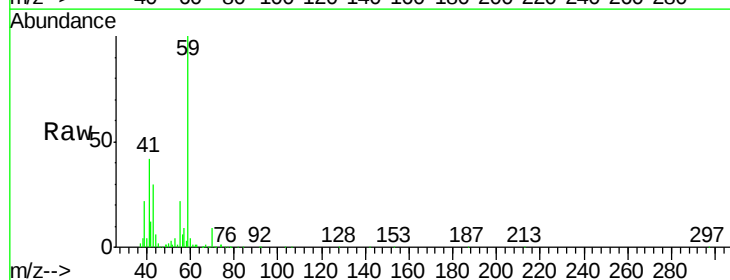
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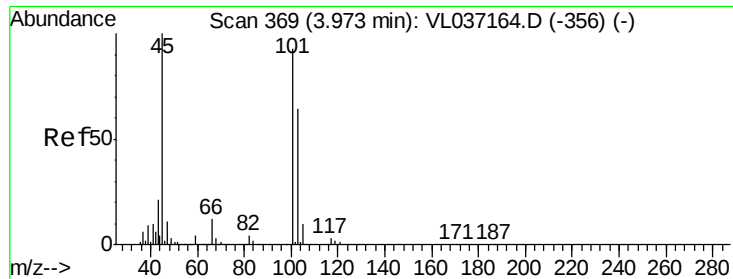
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#17
tert-Butyl alcohol
Concen: 1.009 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Tgt Ion: 59 Resp: 188635
Ion Ratio Lower Upper
59 100
57 13.3 8.8 13.2#





#19

Isopropyl Alcohol

Concen: 0.574 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 45 Resp: 70330

Ion Ratio Lower Upper

45 100

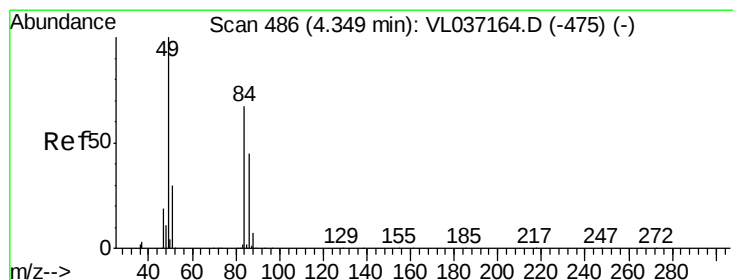
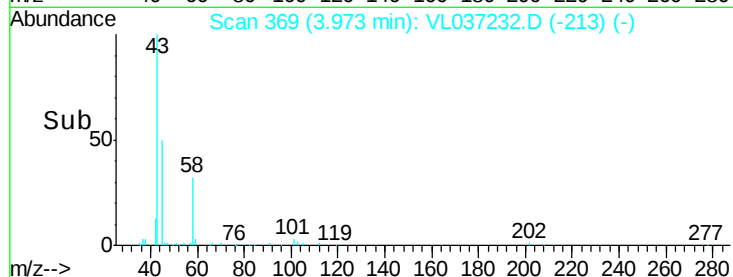
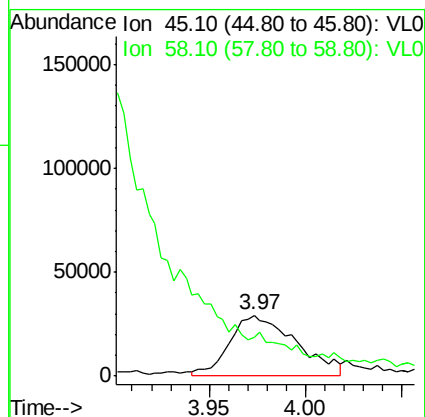
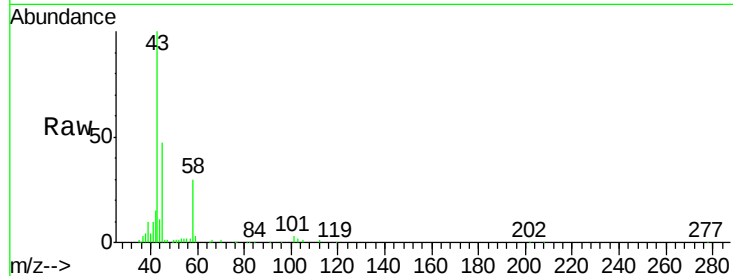
58 0.0 2.4 3.6#

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#20

Methylene Chloride

Concen: 0.910 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.00 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Tgt Ion: 84 Resp: 110279

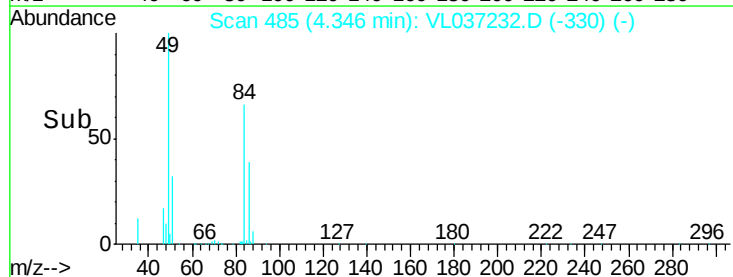
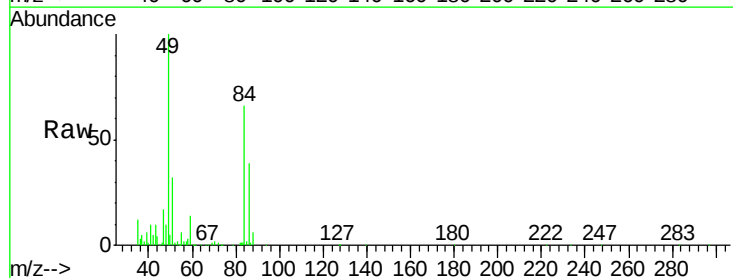
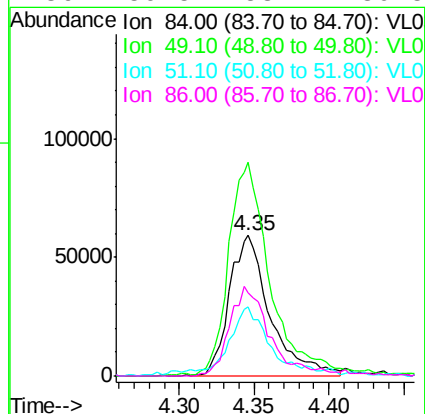
Ion Ratio Lower Upper

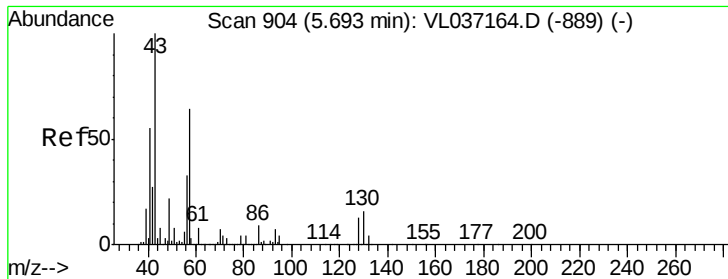
84 100

49 151.8 119.7 179.5

51 48.1 36.1 54.1

86 59.5 53.7 80.5





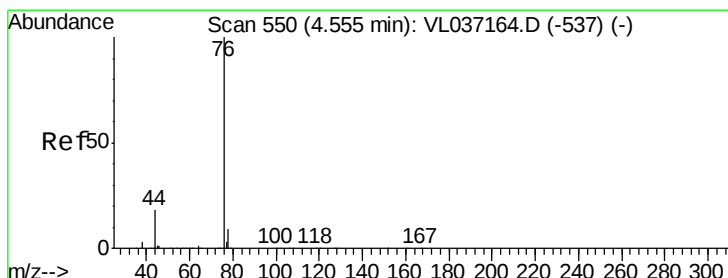
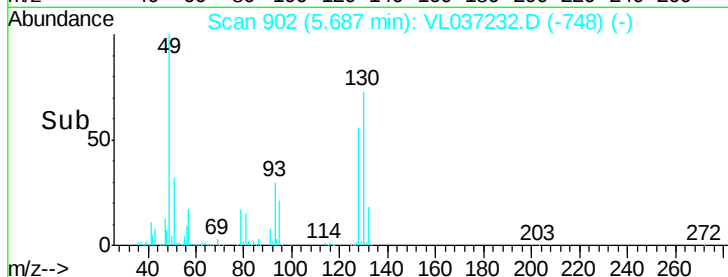
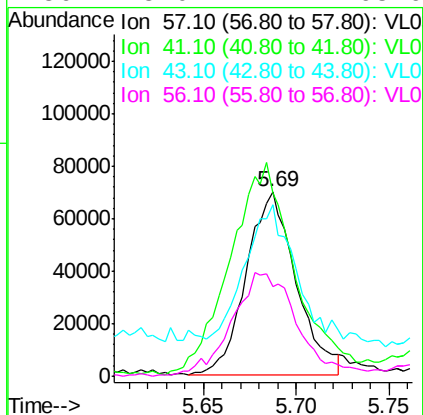
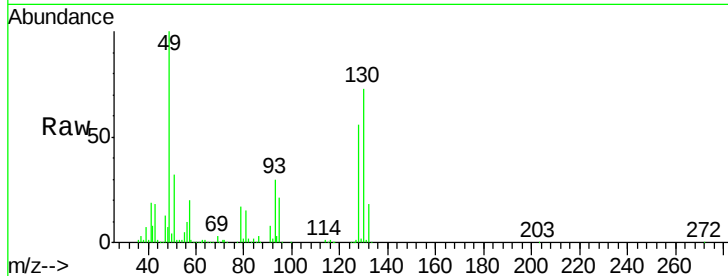
#26
Hexane
Concen: 0.587 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion	Ratio	Lower	Upper
57	100		
41	149.8	73.5	110.3#
43	0.0	170.7	256.1#
56	75.0	42.4	63.6#

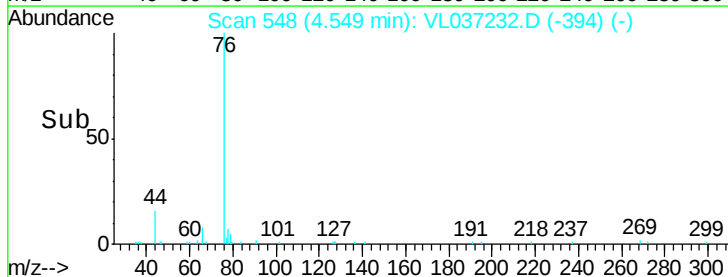
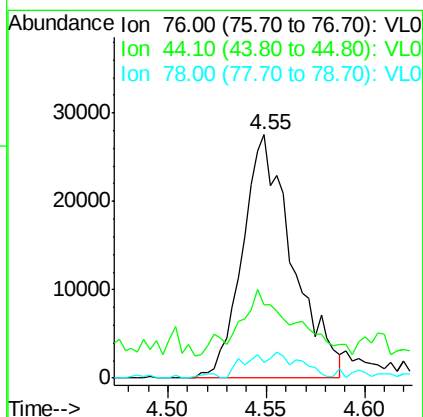
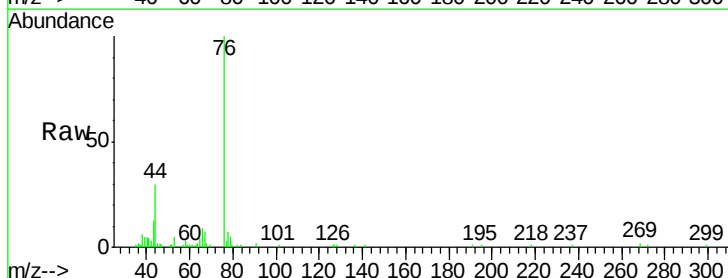
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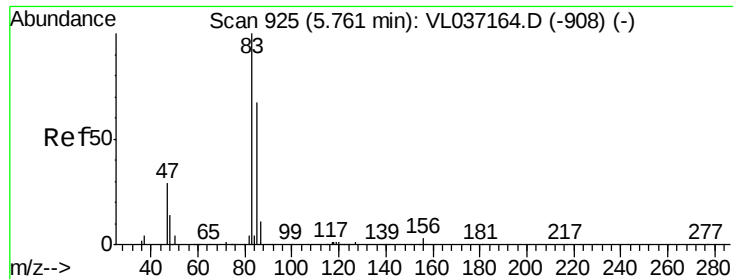
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#27
Carbon Disulfide
Concen: 0.224 ppbv m
RT: 4.55 min Scan# 548
Delta R.T. -0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Tgt Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.4	23.2#
78	13.1	8.0	12.0#





#29

Chloroform

Concen: 0.259 ppbv m

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tot Ion: 83 Resp: 88475

Ion Ratio Lower Upper

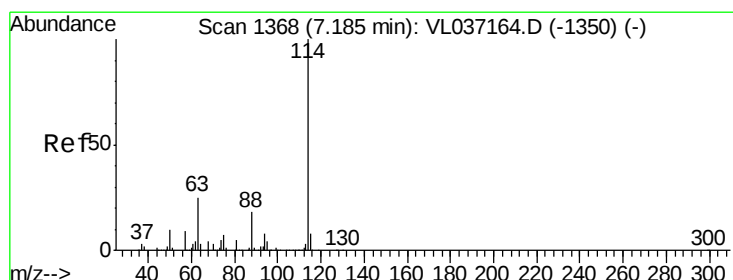
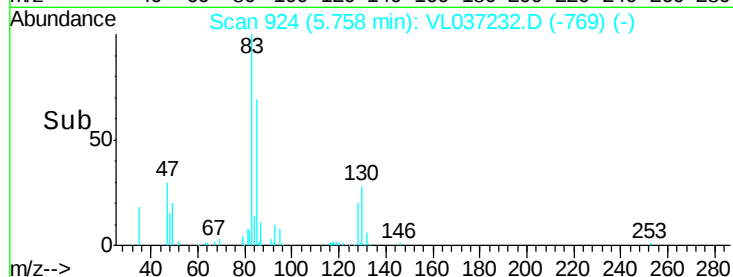
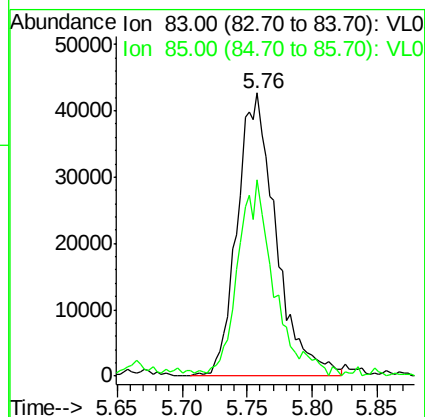
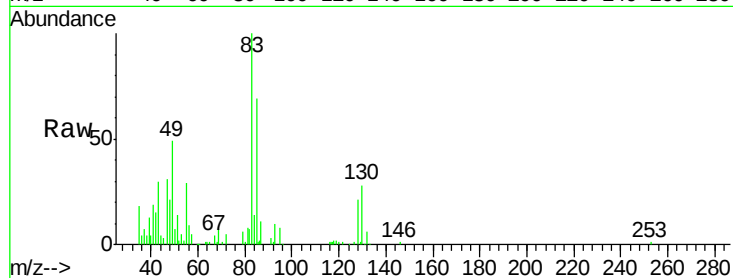
83 100

85 69.5 53.6 80.4

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

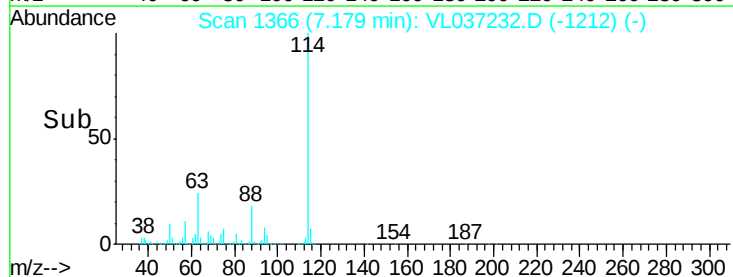
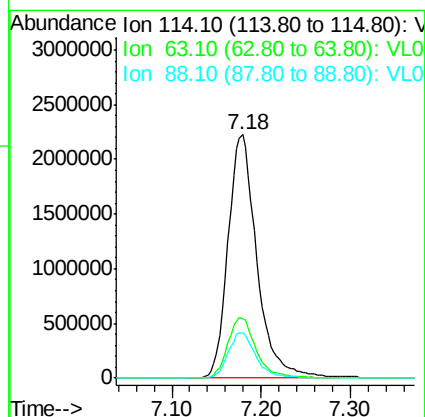
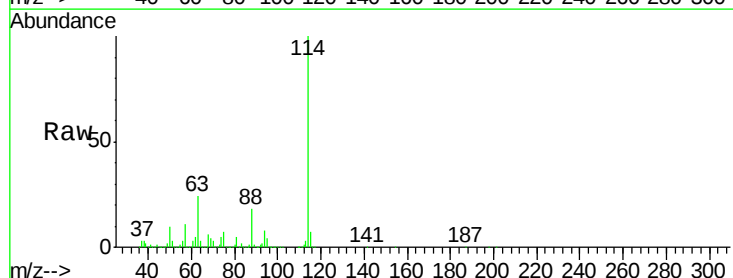
Tgt Ion: 114 Resp: 4975937

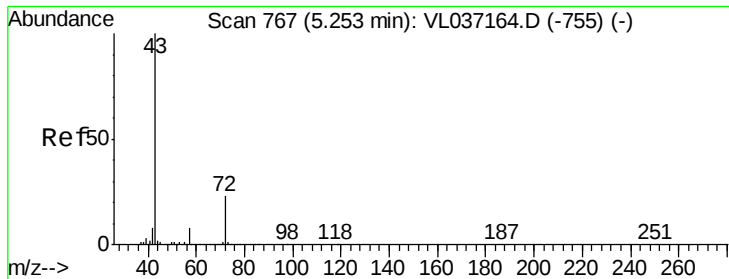
Ion Ratio Lower Upper

114 100

63 24.6 19.6 29.4

88 18.1 14.2 21.2





#34

2-Butanone

Concen: 75.742 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.02 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 43 Resp: 14657611

Ion Ratio Lower Upper

43 100

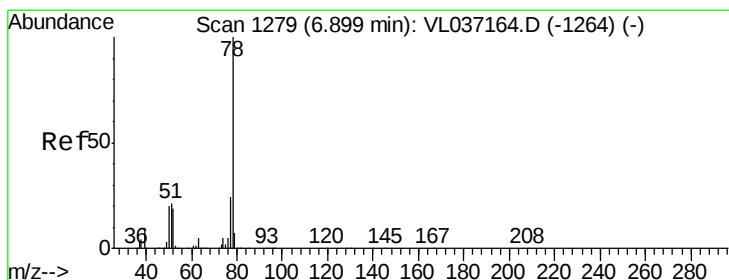
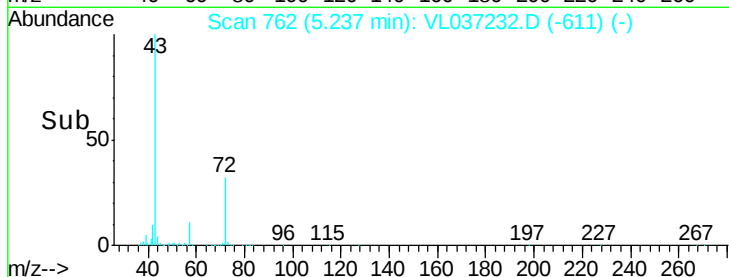
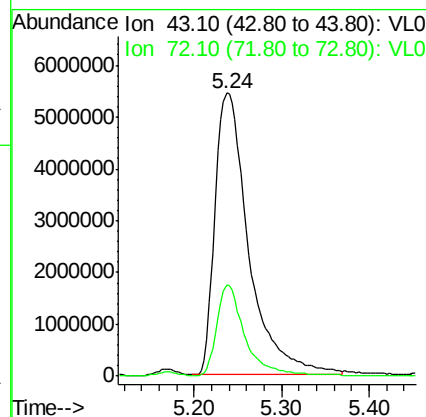
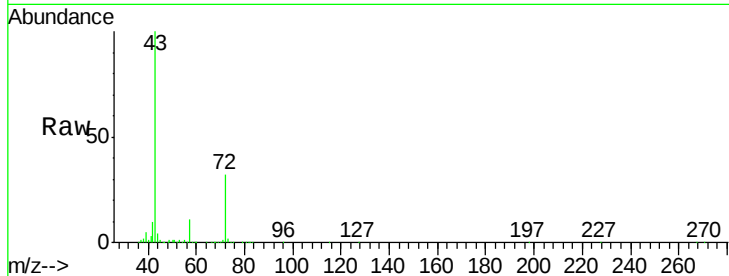
72 27.5 18.9 28.3

Manual Integrations

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#36

Benzene

Concen: 0.353 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

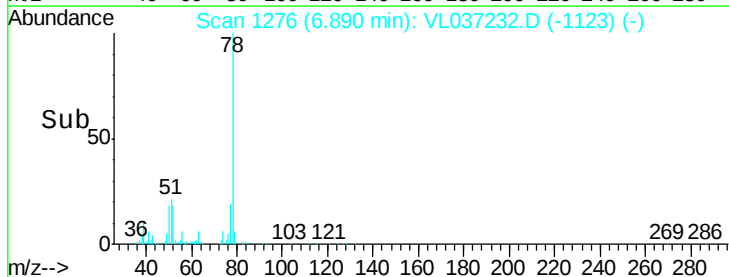
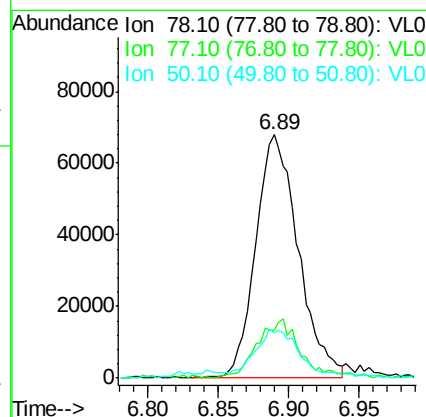
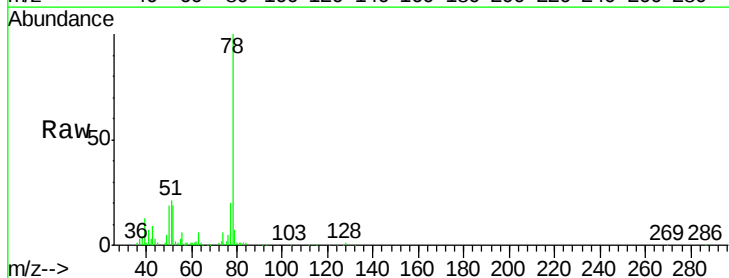
Tgt Ion: 78 Resp: 142103

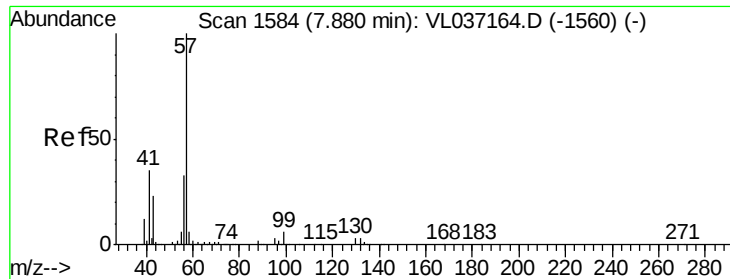
Ion Ratio Lower Upper

78 100

77 18.4 19.0 28.6#

50 17.7 15.7 23.5





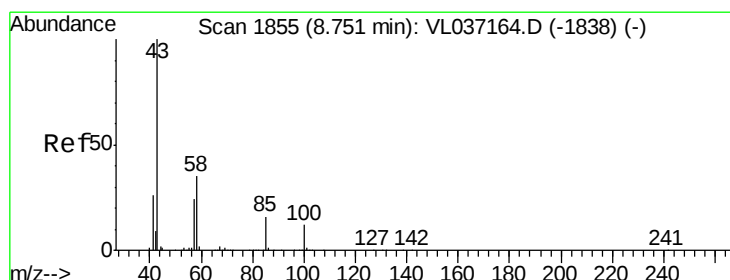
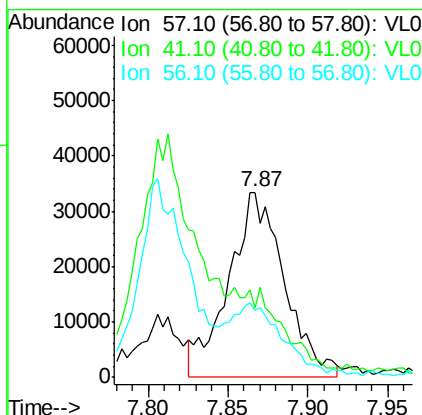
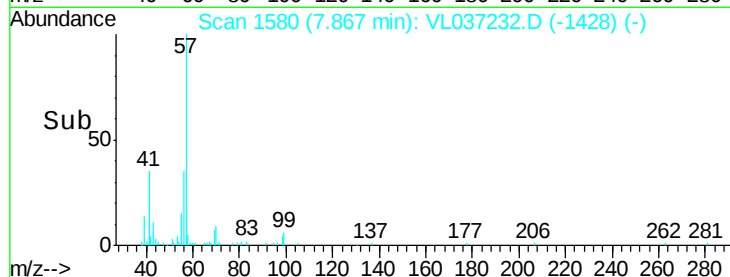
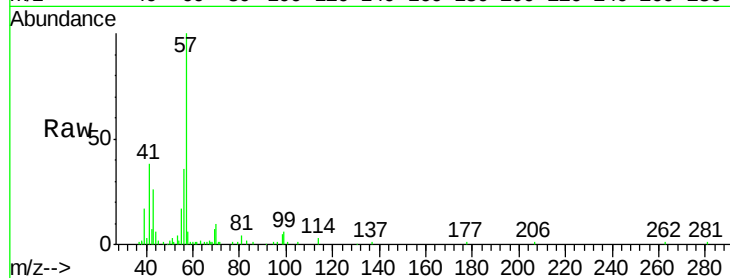
#44
 2,2,4-Trimethylpentane
 Concen: 0.120 ppbv m
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL037232.D
 Acq: 23 Jun 2021 1:10

Instrument :
 MSVOA_L
 ClientSampled :
 SV3

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.6	41.4#
56	0.0	25.3	37.9#

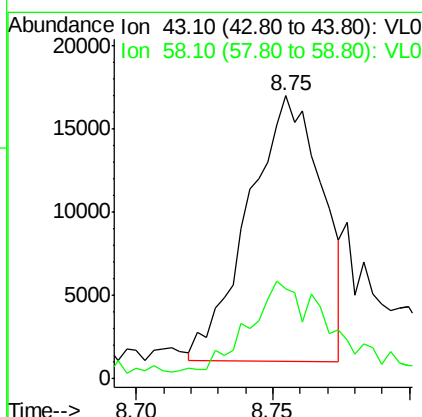
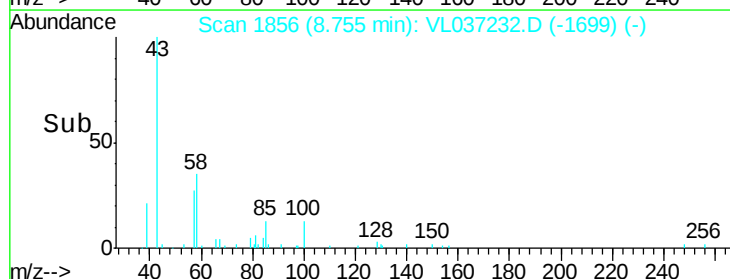
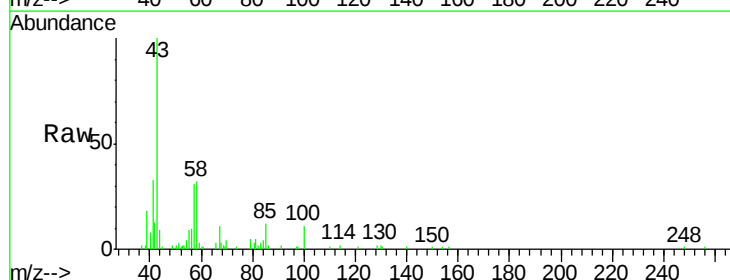
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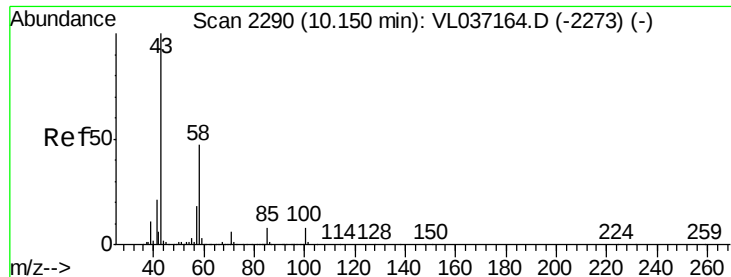
MMDadoda
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#50
 4-Methyl-2-Pentanone
 Concen: 0.112 ppbv
 RT: 8.75 min Scan# 1856
 Delta R.T. 0.00 min
 Lab File: VL037232.D
 Acq: 23 Jun 2021 1:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	46.6	28.4	42.6#





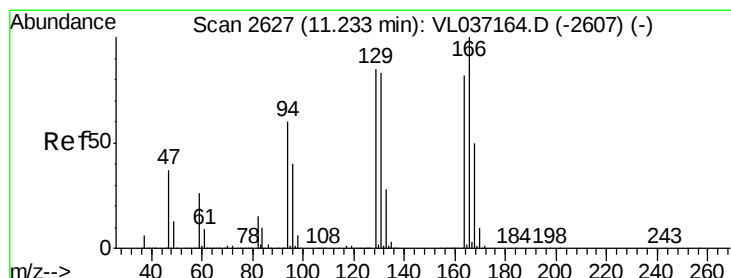
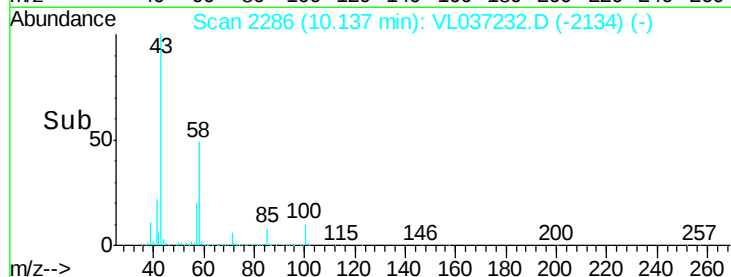
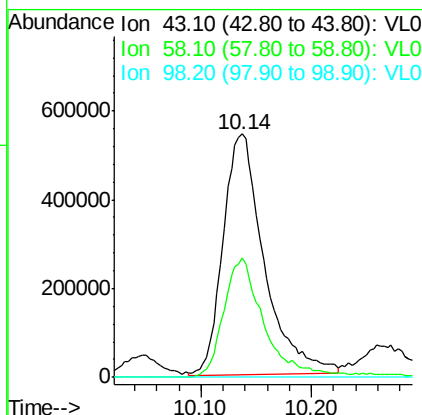
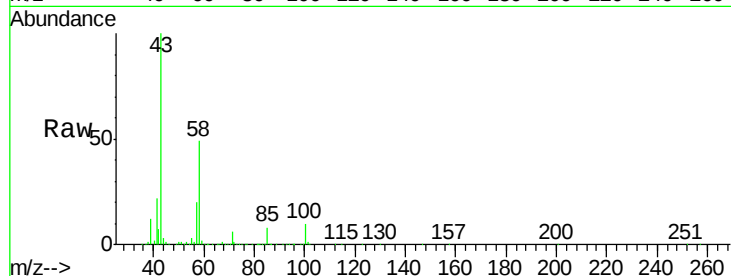
#51
2-Hexanone
Concen: 10.843 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. -0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tot Ion: 43 Resp: 1402263
Ion Ratio Lower Upper
43 100
58 50.4 38.4 57.6
98 0.2 0.3 0.5#

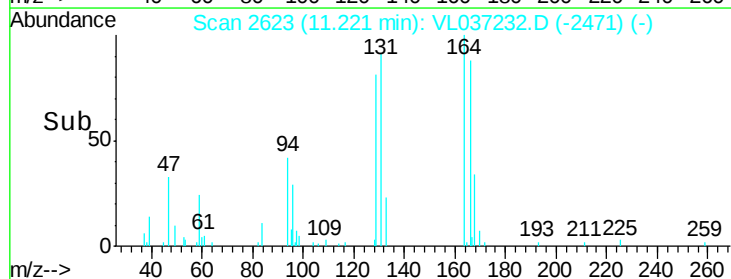
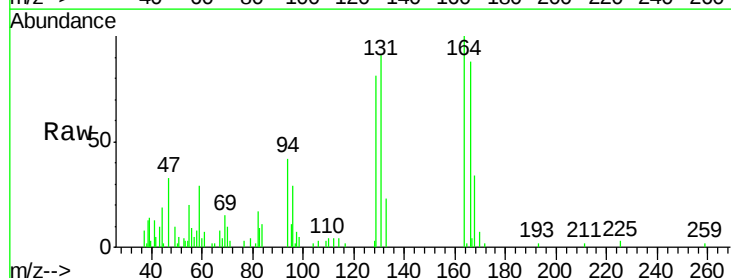
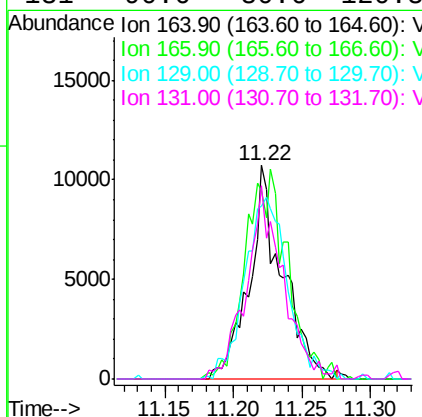
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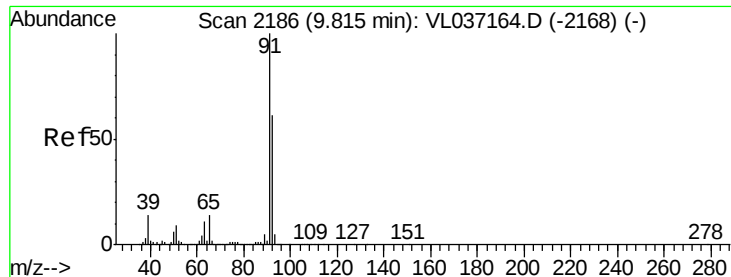
MMDadoda
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#52
Tetrachloroethene
Concen: 0.097 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Tgt Ion: 164 Resp: 18090
Ion Ratio Lower Upper
164 100
166 88.2 97.6 146.4#
129 80.9 82.9 124.3#
131 90.6 80.6 120.8





#53

Toluene

Concen: 1.411 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tot Ion: 91 Resp: 678119

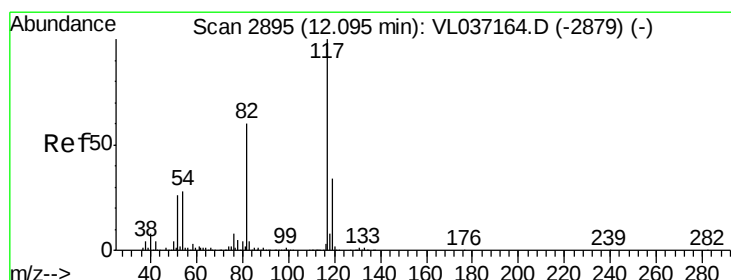
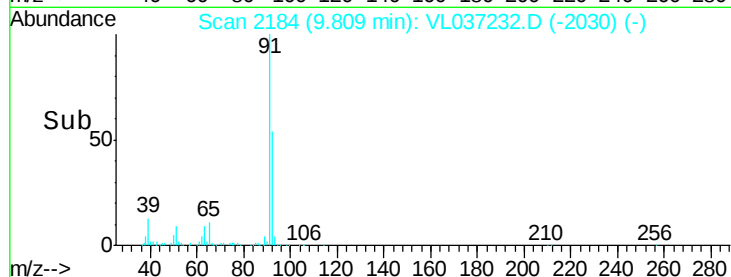
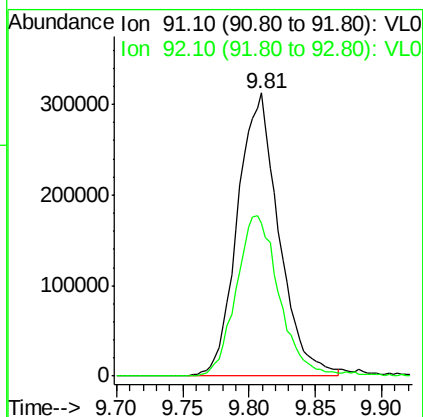
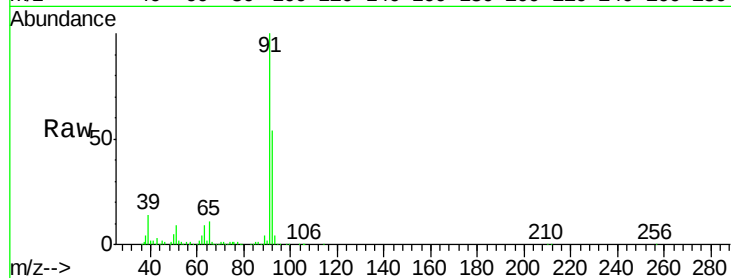
Ion Ratio Lower Upper

91 100

92 59.0 48.3 72.5

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

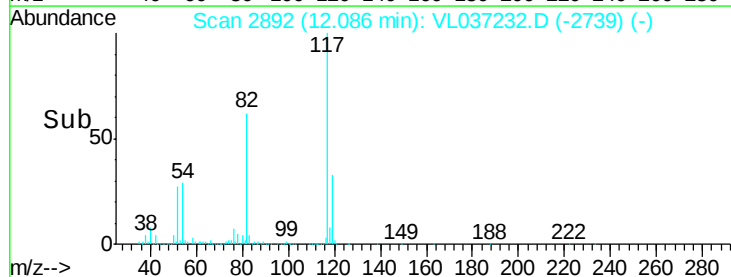
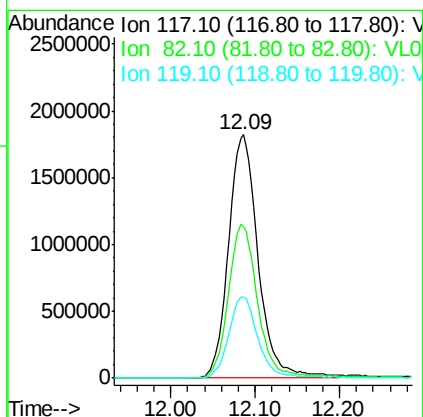
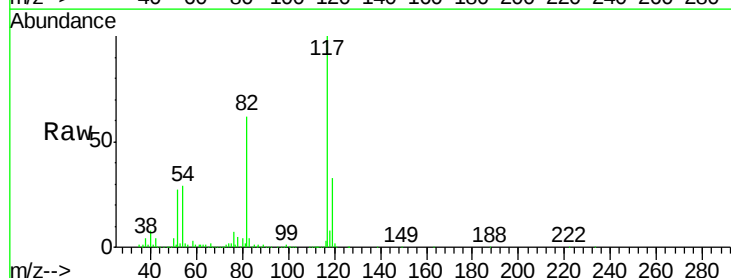
Tgt Ion: 117 Resp: 4443046

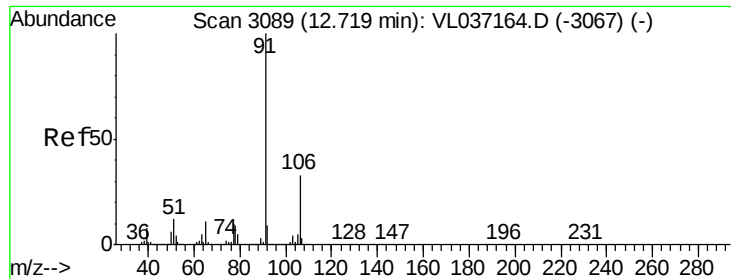
Ion Ratio Lower Upper

117 100

82 64.0 51.7 77.5

119 33.3 47.6 71.4#





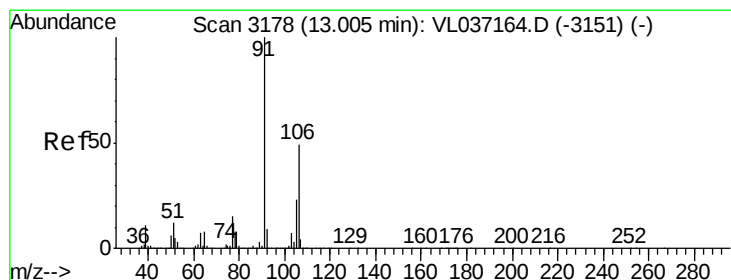
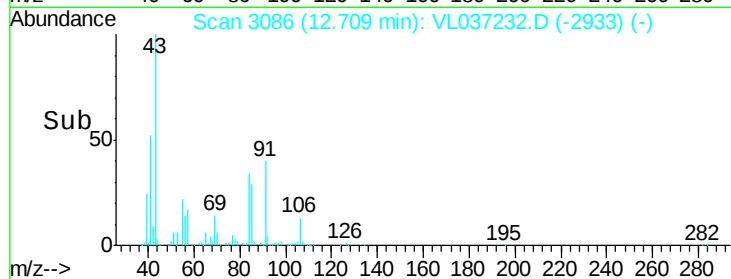
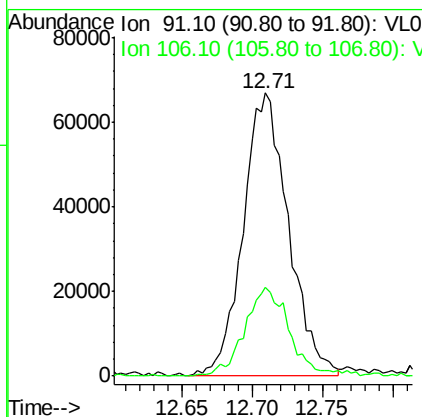
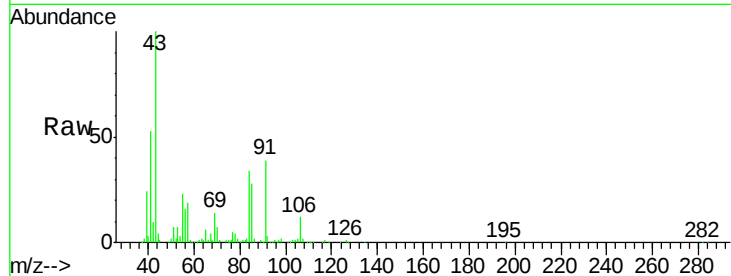
#58
Ethyl Benzene
Concen: 0.246 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion: 91 Resp: 150537
Ion Ratio Lower Upper
91 100
106 31.2 26.3 39.5

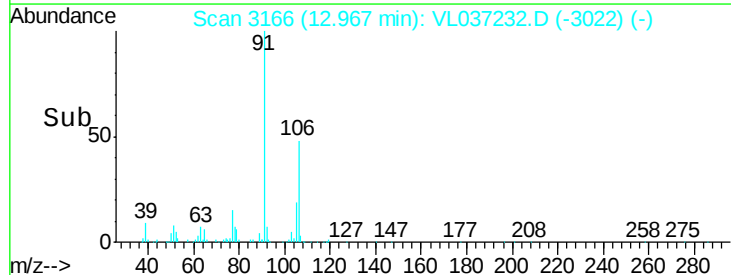
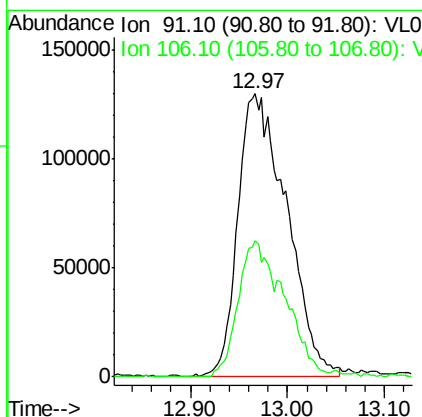
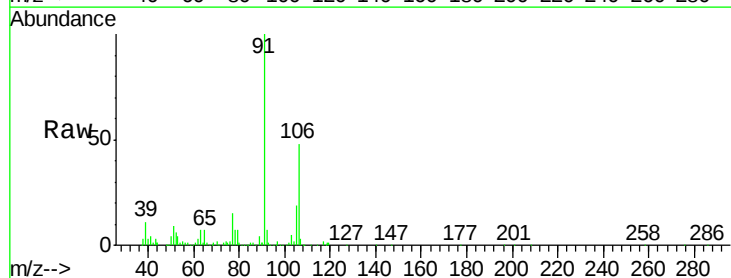
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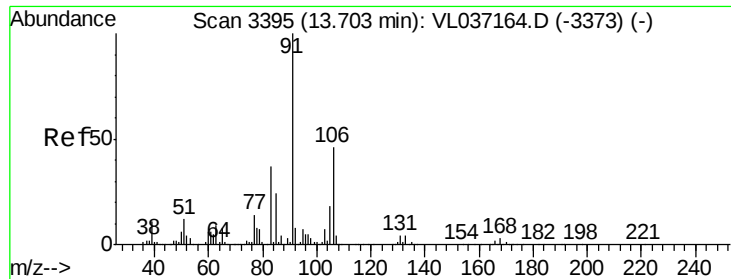
MMDadoda
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#59
m/p-Xylene
Concen: 0.874 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Tgt Ion: 91 Resp: 452837
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#





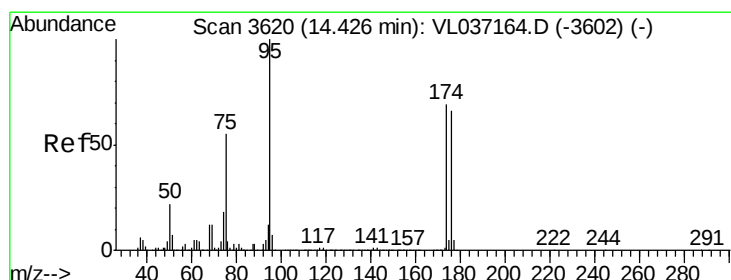
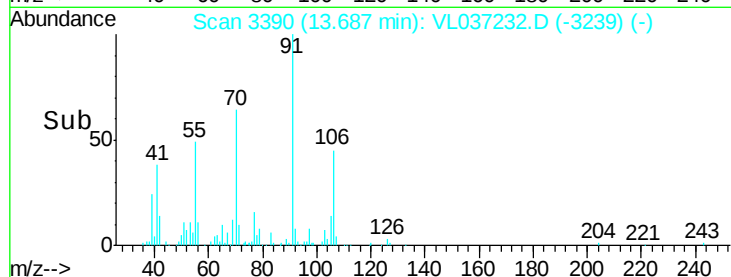
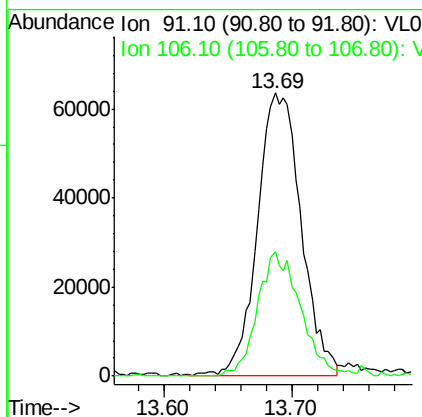
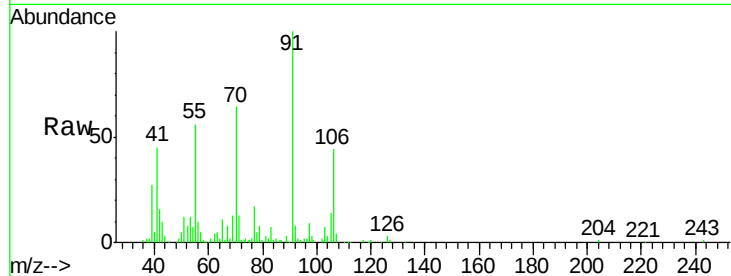
#60
o-Xylene
Concen: 0.305 ppbv m
RT: 13.69 min Scan# 3390
Delta R.T. -0.02 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion: 91 Resp: 150633
Ion Ratio Lower Upper
91 100
106 0.0 23.0 69.0#

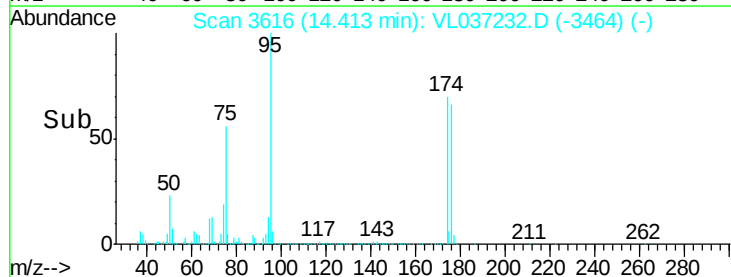
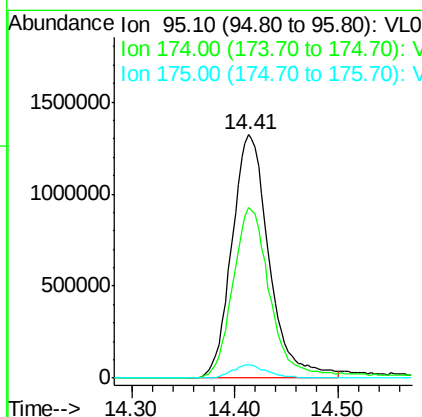
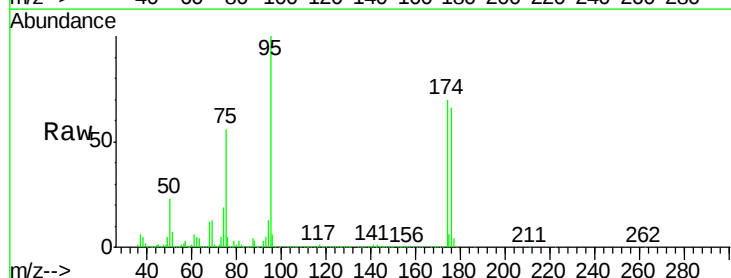
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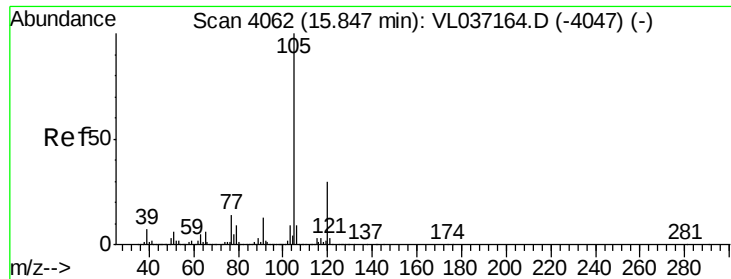
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.886 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL037232.D
Acq: 23 Jun 2021 1:10

Tgt Ion: 95 Resp: 3328448
Ion Ratio Lower Upper
95 100
174 73.0 57.0 85.4
175 5.4 4.4 6.6





#72

4-Ethyltoluene

Concen: 0.137 ppbv

RT: 15.84 min Scan# 4059

Delta R.T. -0.01 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Instrument :

MSVOA_L

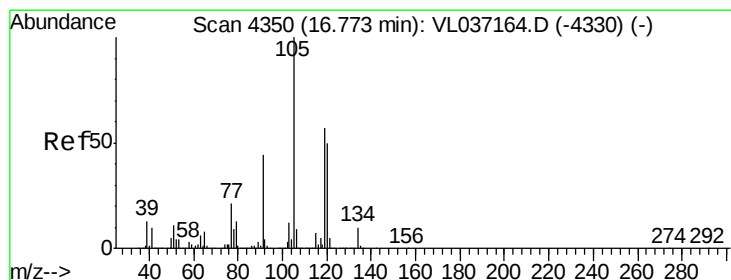
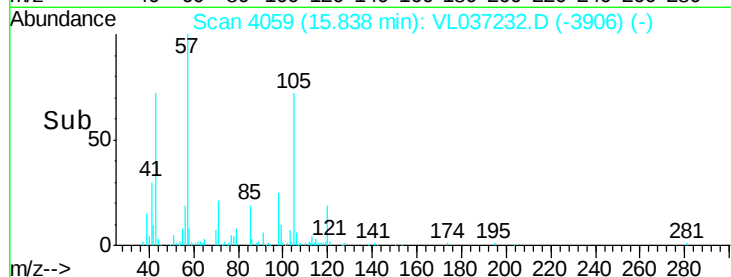
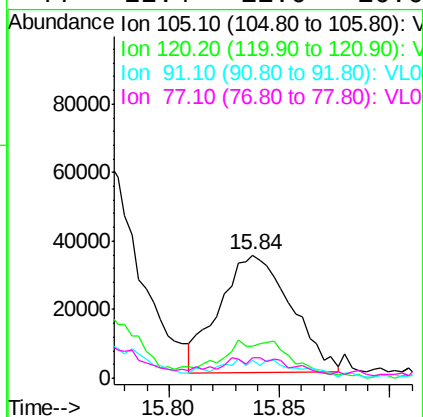
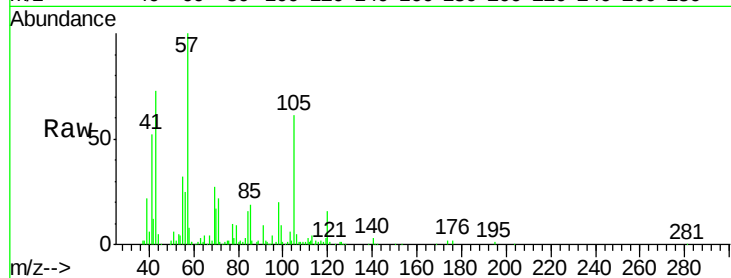
ClientSampled :

SV3

Tot Ion	Ratio	Lower	Upper
105	100		
120	33.4	24.7	37.1
91	16.1	10.2	15.4
77	22.4	11.0	16.6

Manual Integrations
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6/24/2021 4:33:36 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.388 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. -0.01 min

Lab File: VL037232.D

Acq: 23 Jun 2021 1:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	39.7	39.8	59.8
91	10.0	37.0	55.4
77	12.5	17.0	25.4

