

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037074.D
 Acq On : 1 Jun 2021 17:41
 Operator : SY/AP
 Sample : M2559-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG3DL

Manual Integrations
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 6/7/2021 2:58:34 PM

Quant Time: Jun 02 03:54:33 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	1582975	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4689660	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4324558	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3411733	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	101999	0.982	ppbv #	80
10) Heptane	8.11	43	4035002	15.591	ppbv	99
11) Trichlorofluoromethane	3.94	101	32656m	0.131	ppbv	
13) Ethanol	3.61	45	332878	24.025	ppbv	99
15) Acetone	3.85	43	1235226	7.618	ppbv	92
17) tert-Butyl alcohol	4.31	59	89031	0.599	ppbv #	88
19) Isopropyl Alcohol	3.98	45	53752m	0.617	ppbv	
20) Methylene Chloride	4.33	84	228567	2.630	ppbv	97
26) Hexane	5.68	57	596639	2.998	ppbv #	47
30) Cyclohexane	7.11	84	176792	1.045	ppbv #	72
34) 2-Butanone	5.24	43	131596	0.771	ppbv #	89
36) Benzene	6.88	78	441917	1.094	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	248604m	0.882	ppbv	
52) Tetrachloroethene	11.21	164	46792m	0.291	ppbv	
53) Toluene	9.79	91	5076440	10.562	ppbv	100
58) Ethyl Benzene	12.70	91	709145	1.162	ppbv	99
59) m/p-Xylene	12.95	91	1898464	3.763	ppbv	97
60) o-Xylene	13.67	91	458157	0.952	ppbv	98
61) Stvrene	13.51	104	75836m	0.280	ppbv	
62) Isopropylbenzene	14.65	105	1538006	2.224	ppbv	97
64) n-propylbenzene	15.55	120	42985m	0.241	ppbv	
72) 4-Ethyltoluene	15.82	105	218530	0.383	ppbv	97
73) 1,3,5-Trimethylbenzene	15.99	105	106867m	0.199	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	382833m	0.690	ppbv	

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

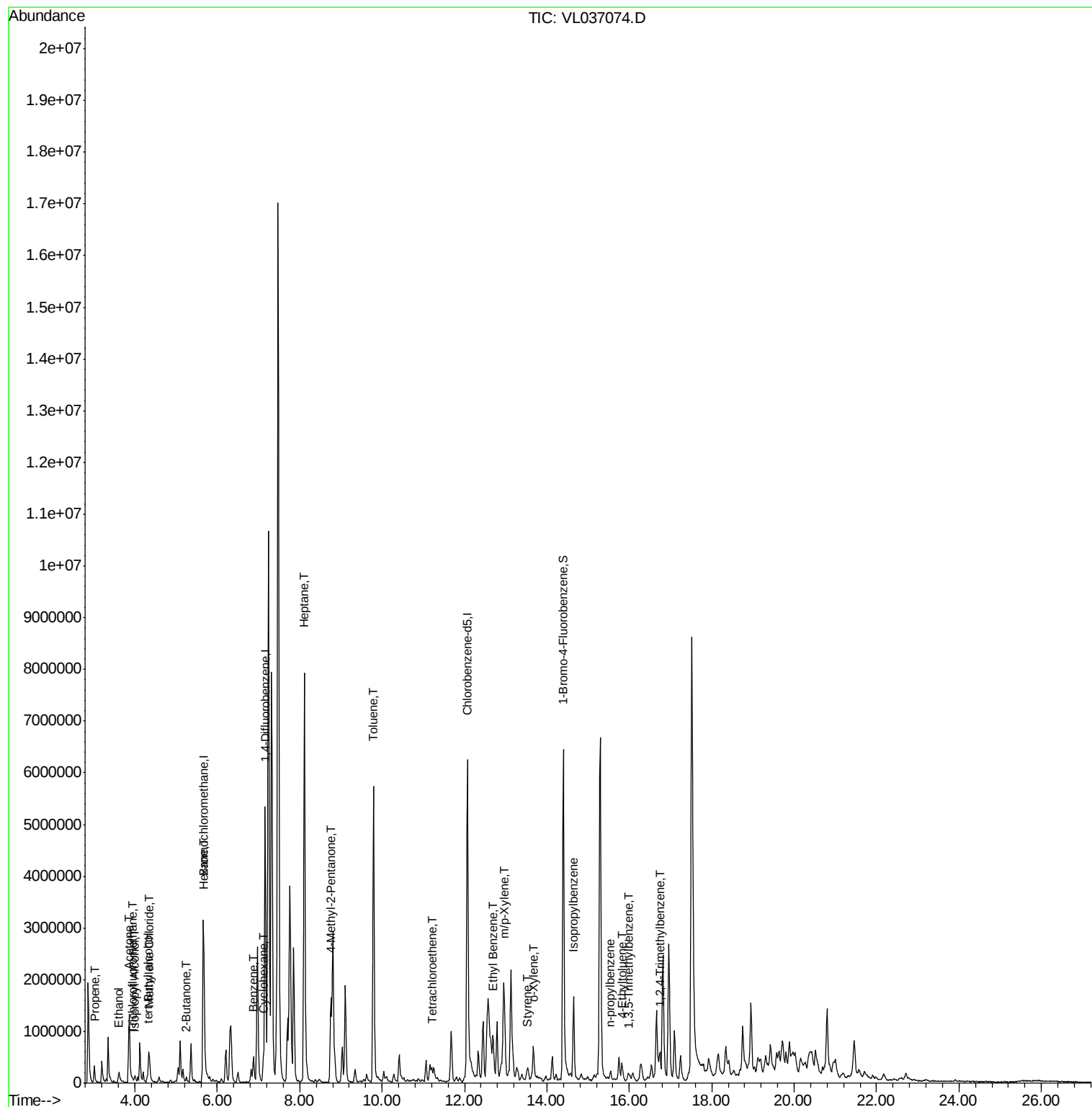
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037074.D
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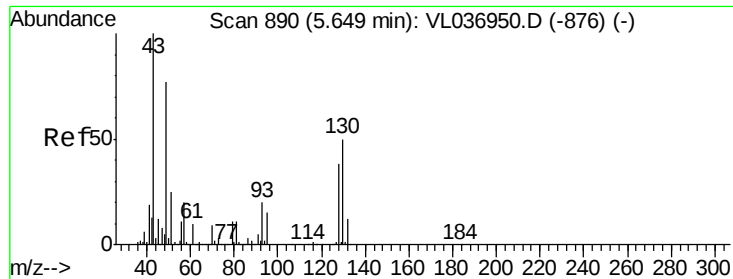
Instrument :
MSVOA_L
ClientSampleId :
HSG3DL

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Quant Time: Jun 02 03:54:33 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: VL037074.D

Acq: 1 Jun 2021 17:41

Instrument :

MSVOA_L

ClientSampleId :

HSG3DL

Tot Ion: 49 Resp: 1582975

Ion Ratio Lower Upper

49 100

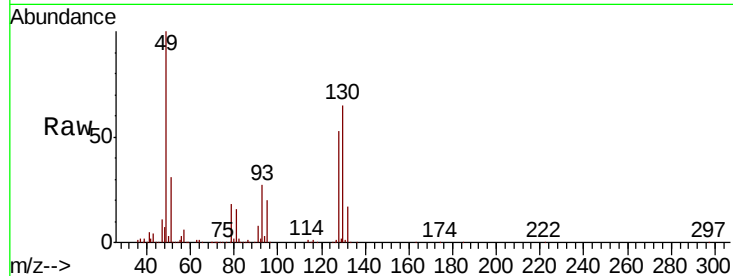
128 55.1 26.9 80.7

130 72.0 33.8 101.4

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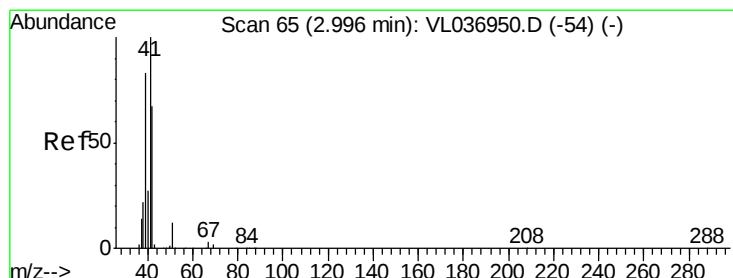
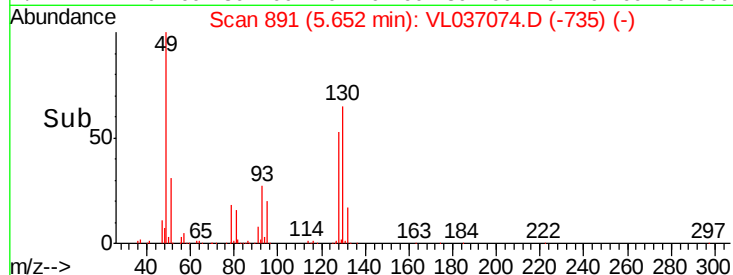
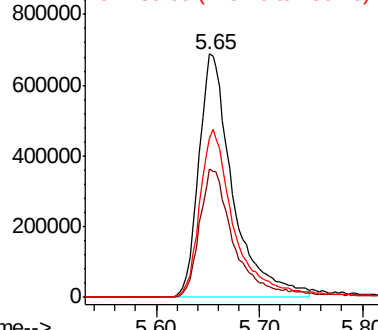
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.982 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037074.D

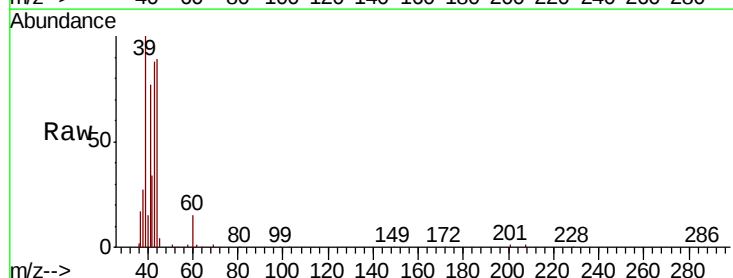
Acq: 1 Jun 2021 17:41

Tgt Ion: 41 Resp: 101999

Ion Ratio Lower Upper

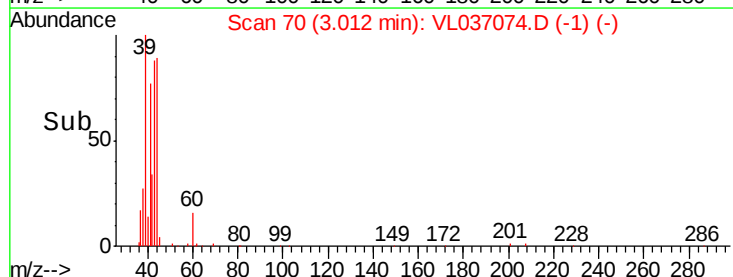
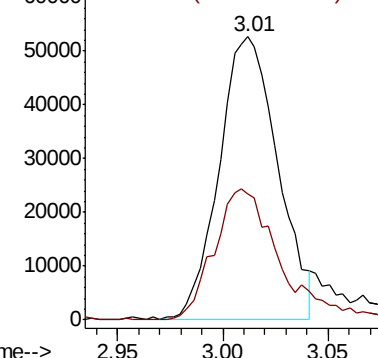
41 100

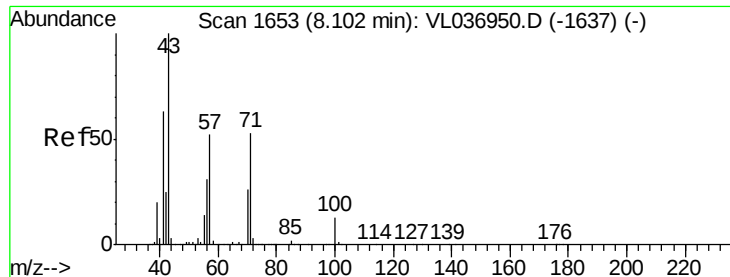
42 51.7 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 15.591 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. 0.01 min

Lab File: VL037074.D

Acq: 1 Jun 2021 17:41

Instrument :

MSVOA_L

ClientSampleId :

HSG3DL

Tot Ion: 43 Resp: 4035002

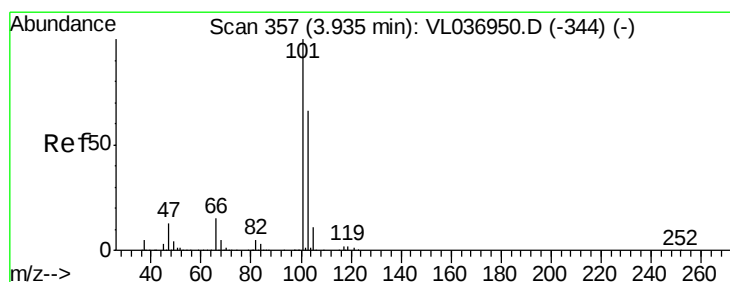
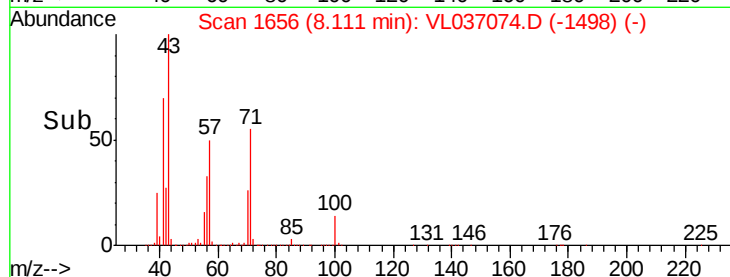
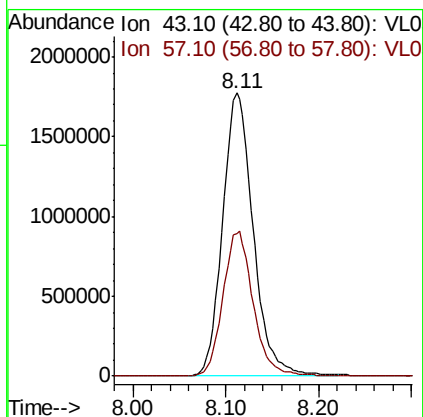
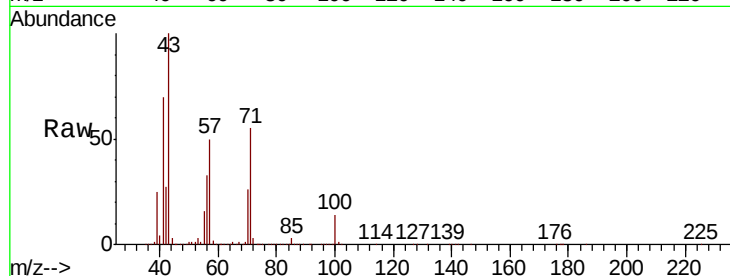
Ion Ratio Lower Upper

43 100

57 50.8 41.0 61.6

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#11

Trichlorofluoromethane

Concen: 0.131 ppbv m

RT: 3.94 min Scan# 358

Delta R.T. 0.00 min

Lab File: VL037074.D

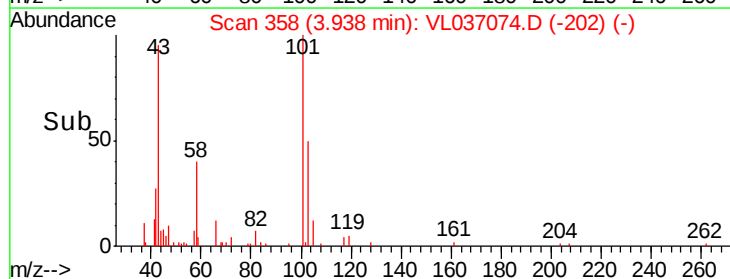
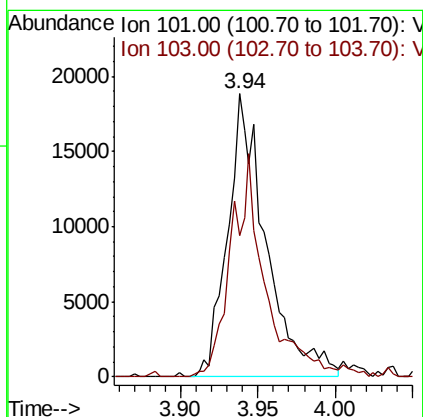
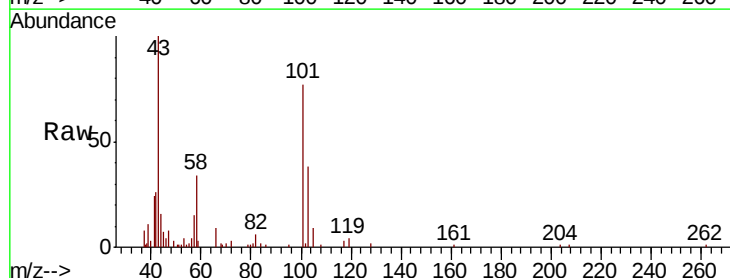
Acq: 1 Jun 2021 17:41

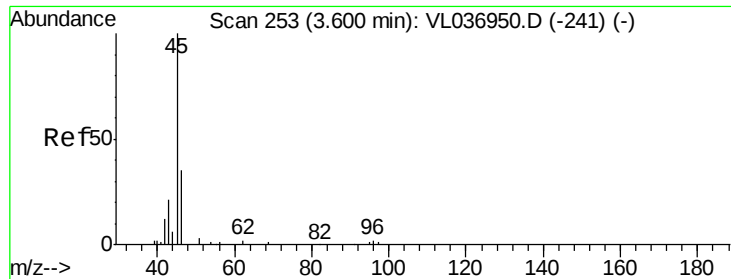
Tgt Ion: 101 Resp: 32656

Ion Ratio Lower Upper

101 100

103 49.8 52.6 79.0#





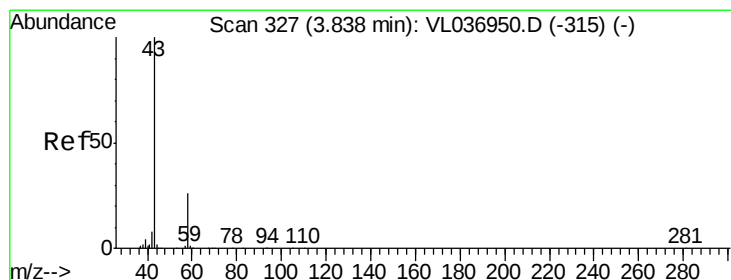
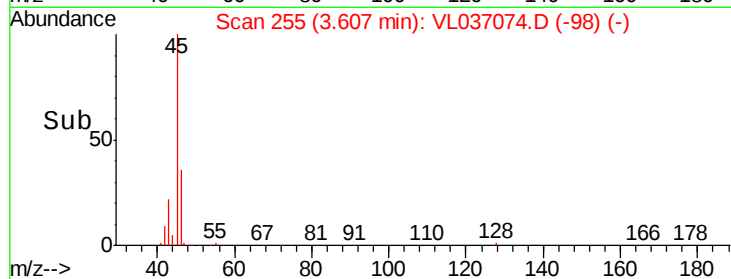
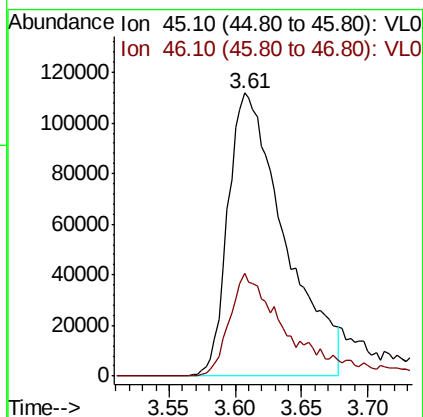
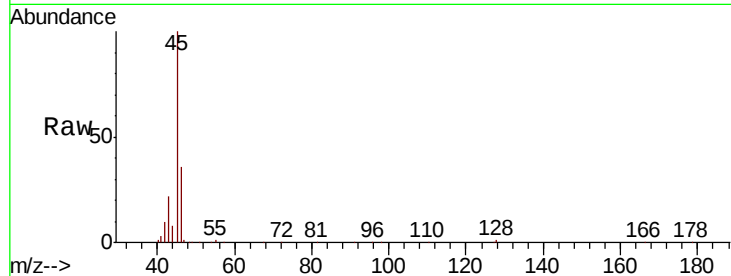
#13
Ethanol
Concen: 24.025 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Instrument :
MSVOA_L
ClientSampleId :
HSG3DL

Tot Ion	45	46	Resp	Lower	Upper
332878	100	40.3		16.3	65.3

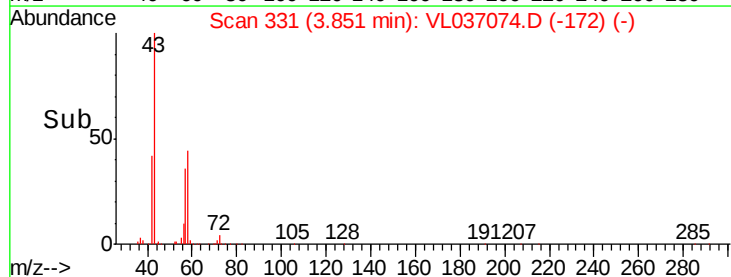
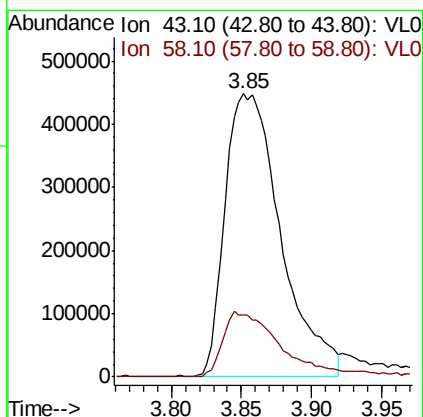
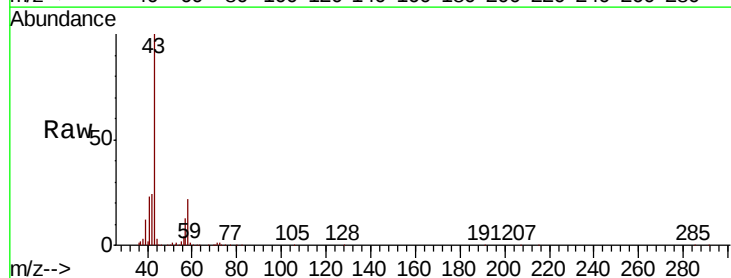
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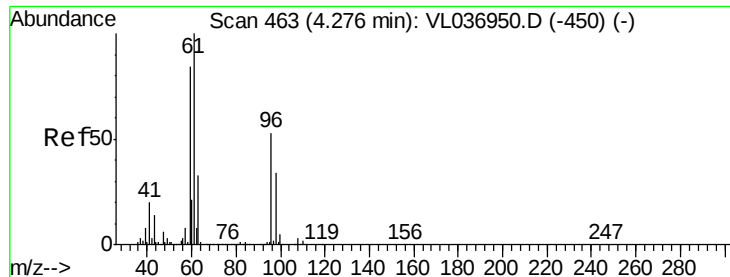
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#15
Acetone
Concen: 7.618 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Tgt Ion	43	58	Resp	Lower	Upper
1235226	100	25.8		24.0	36.0





#17

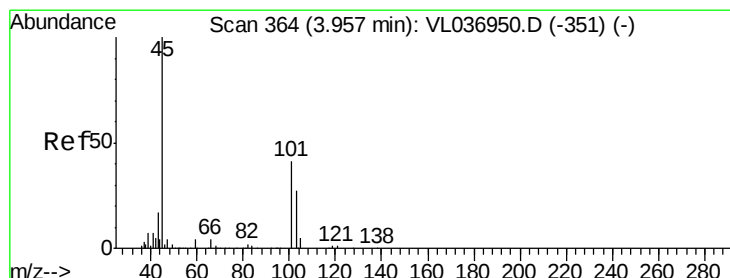
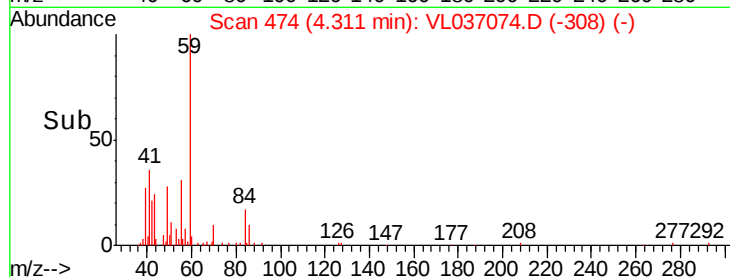
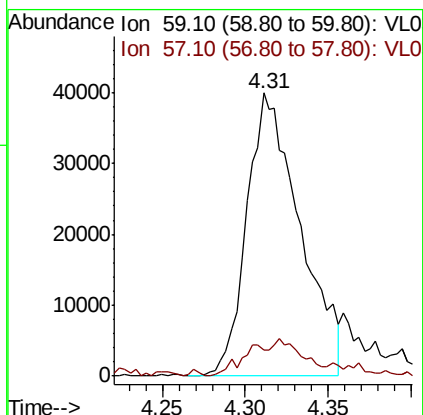
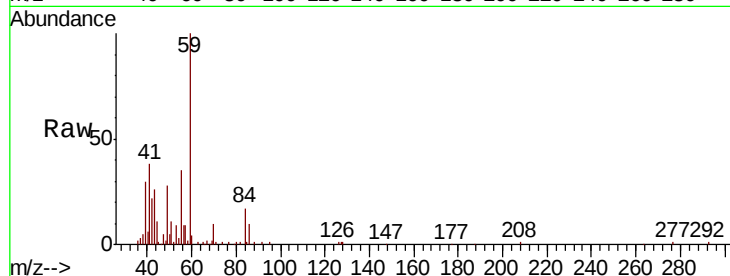
tert-Butyl alcohol
Concen: 0.599 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.04 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Instrument :
MSVOA_L
ClientSampleId :
HSG3DL

Tot Ion	59	Resp	89031
Ion Ratio	Lower	Upper	
59	100		
57	14.9	8.3	12.5#

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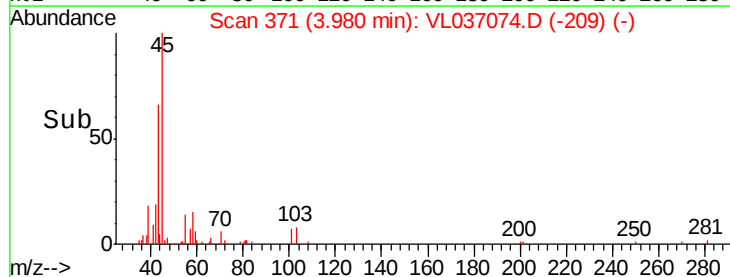
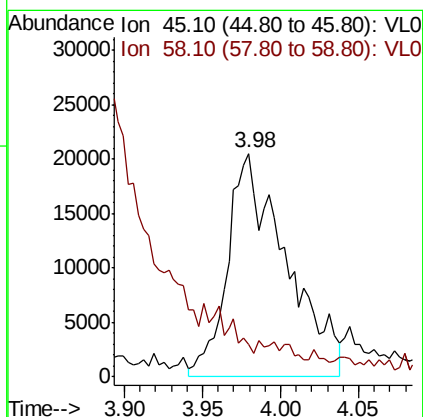
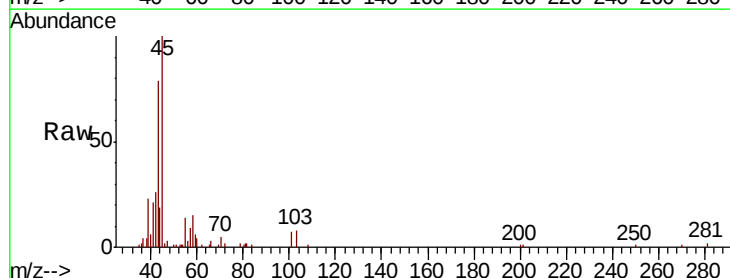
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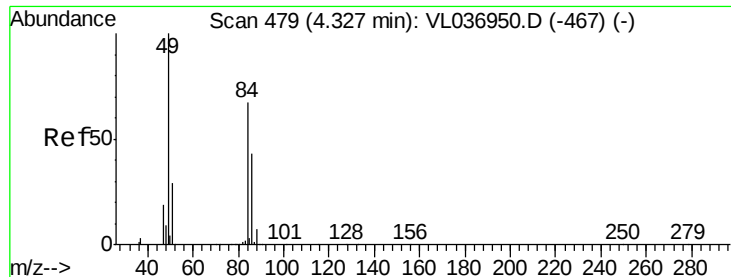


#19

Isopropyl Alcohol
Concen: 0.617 ppbv m
RT: 3.98 min Scan# 371
Delta R.T. 0.02 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Tgt Ion	45	Resp	53752
Ion Ratio	Lower	Upper	
45	100		
58	0.0	37.2	55.8#





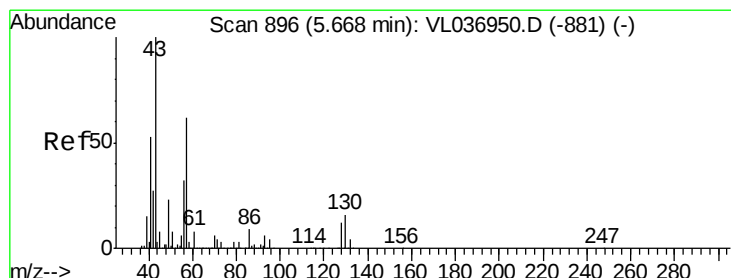
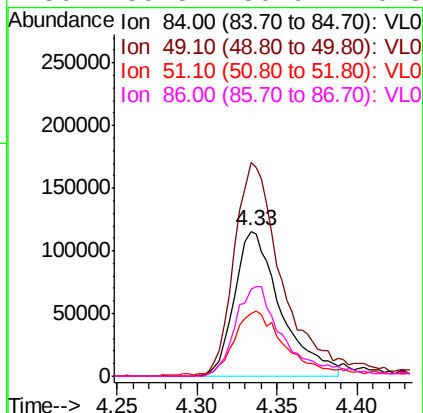
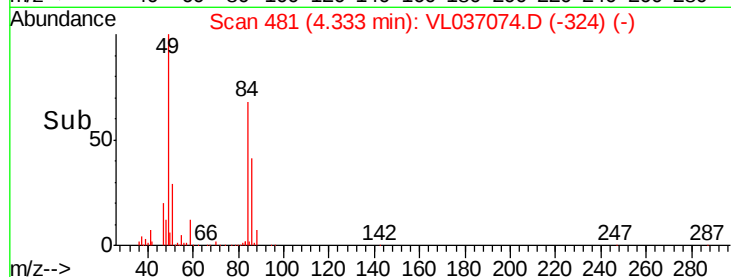
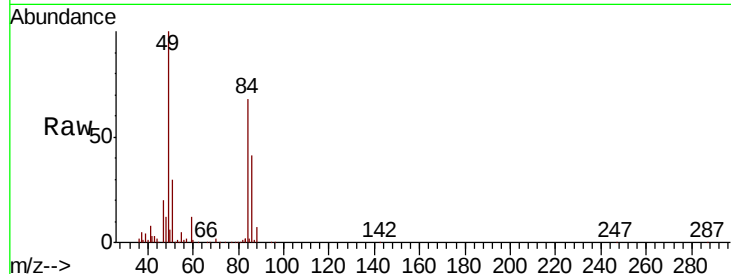
#20
Methvlene Chloride
Concen: 2.630 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Instrument :
MSVOA_L
ClientSampleId :
HSG3DL

Tot Ion	Ratio	Lower	Upper
84	100		
49	147.1	119.8	179.6
51	41.9	35.1	52.7
86	59.8	50.9	76.3

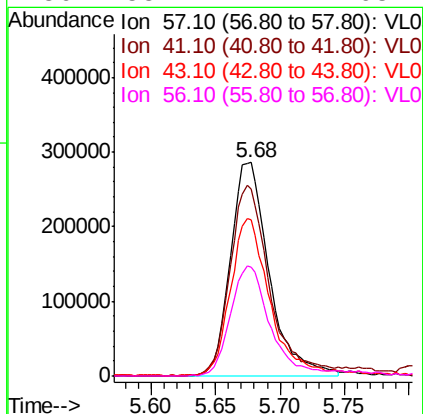
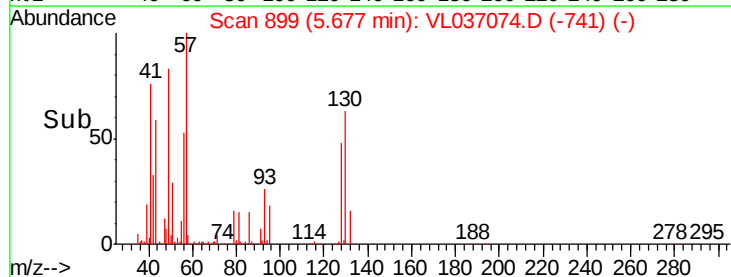
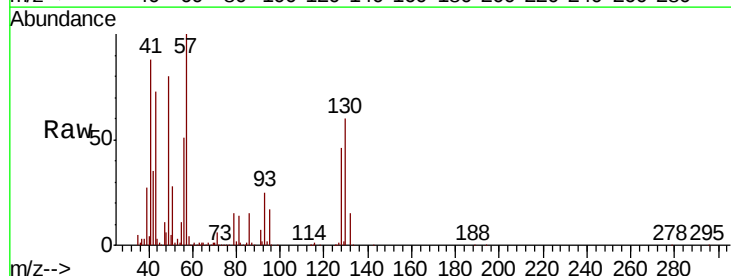
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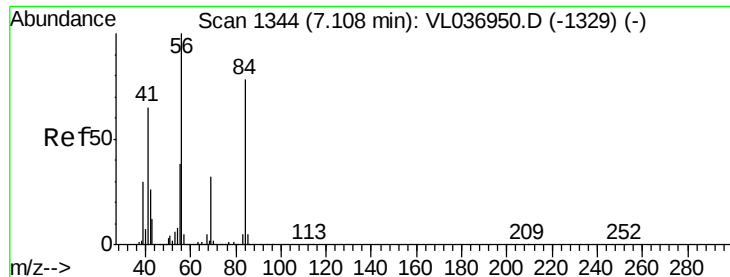
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#26
Hexane
Concen: 2.998 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.6	70.5	105.7
43	77.1	165.8	248.8#
56	55.4	42.2	63.4





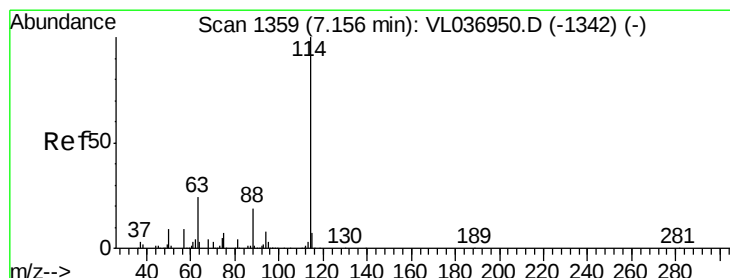
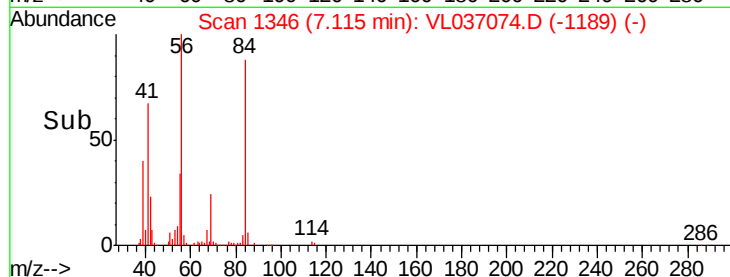
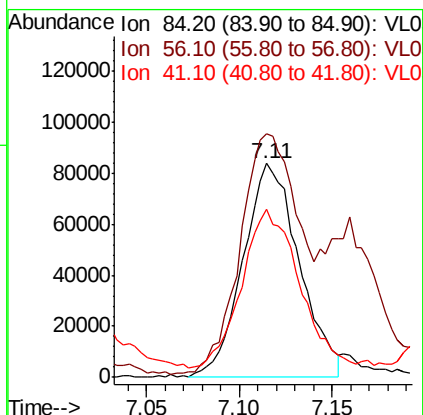
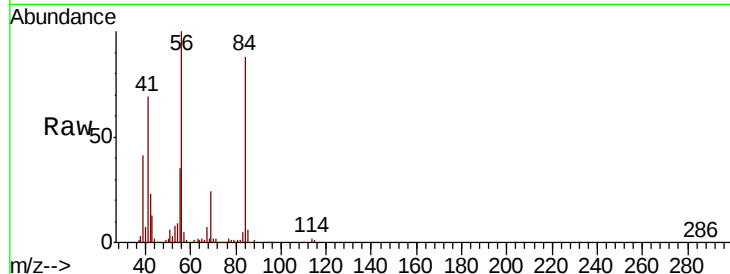
#30
Cvclohexane
Concen: 1.045 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. 0.01 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Instrument :
MSVOA_L
ClientSampleId :
HSG3DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	183.0	107.9	161.9#
41	74.0	65.5	98.3

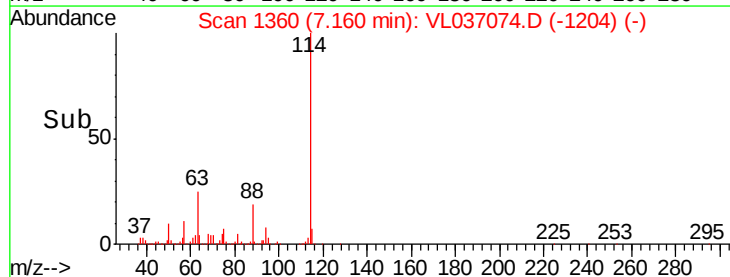
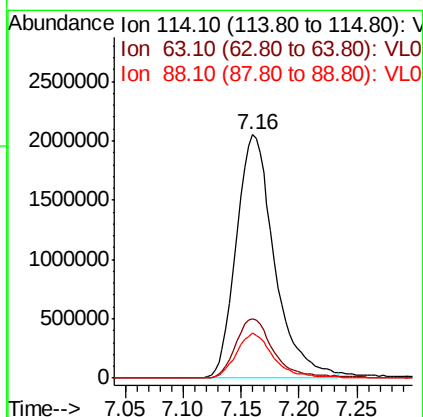
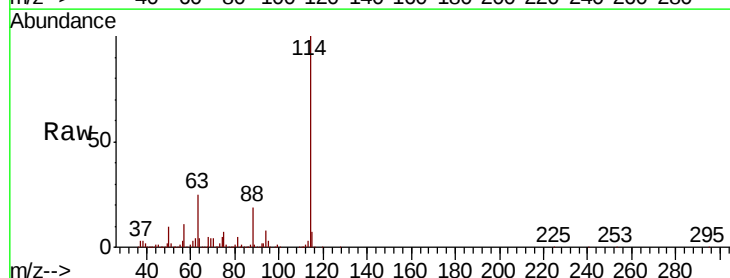
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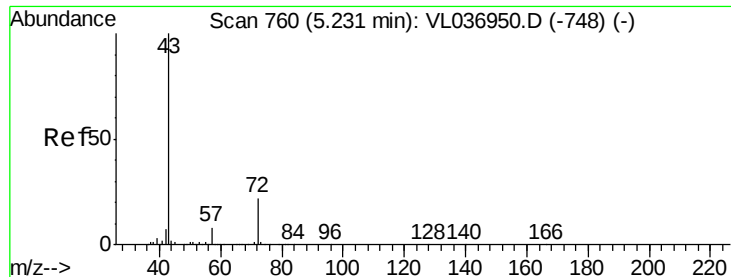
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.6	29.4
88	18.2	14.6	21.8





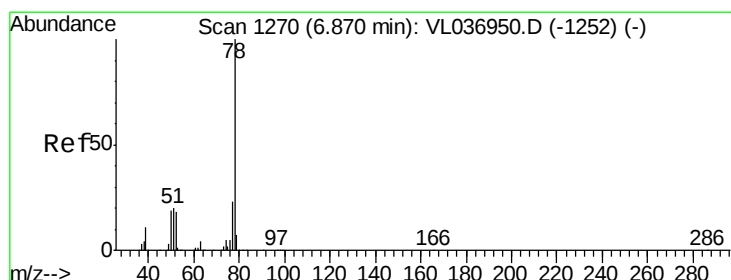
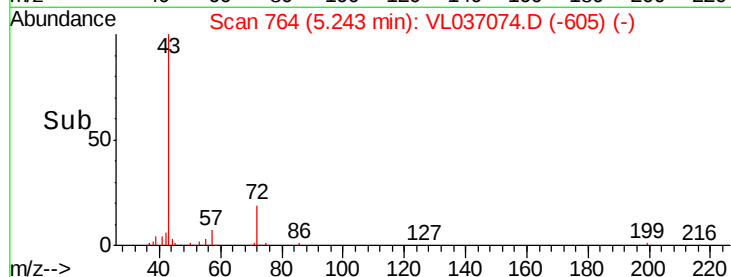
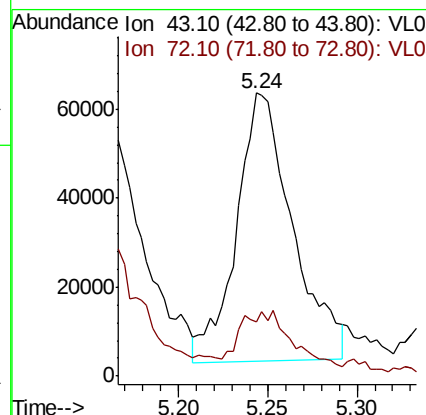
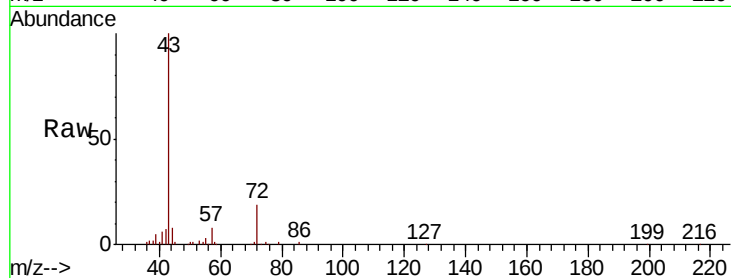
#34
2-Butanone
Concen: 0.771 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.01 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Instrument :
MSVOA_L
ClientSampleId :
HSG3DL

Tot Ion: 43 Resp: 131596
Ion Ratio Lower Upper
43 100
72 28.9 19.0 28.4#

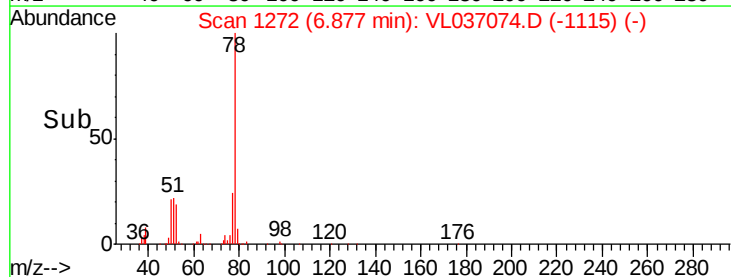
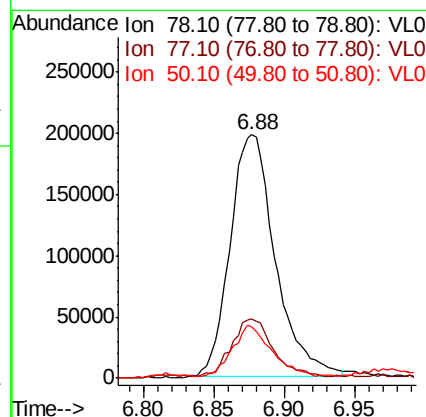
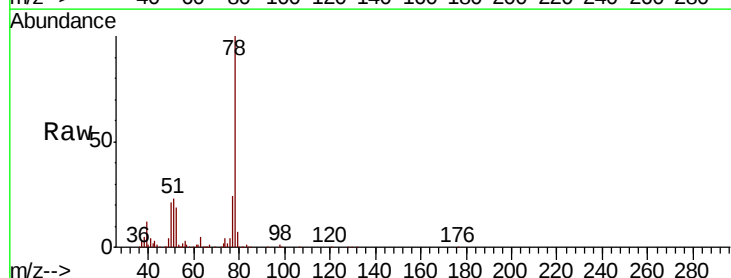
Manual Integrations
APPROVED

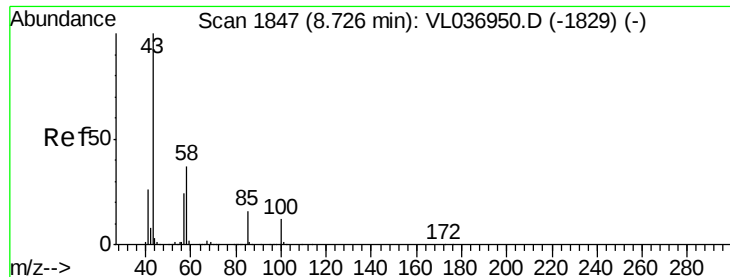
MMDadoda
6/7/2021 2:58:34 PM



#36
Benzene
Concen: 1.094 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Tgt Ion: 78 Resp: 441917
Ion Ratio Lower Upper
78 100
77 23.5 18.6 28.0
50 20.6 15.0 22.4





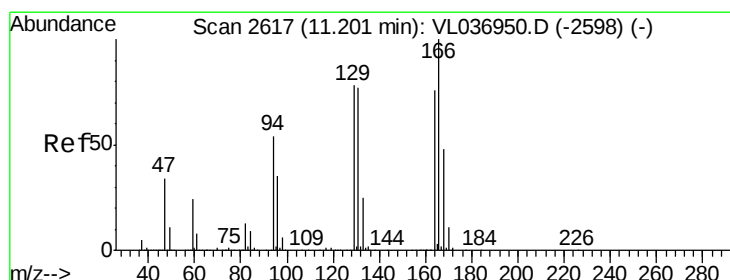
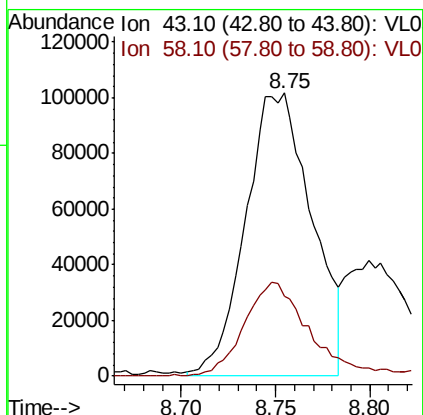
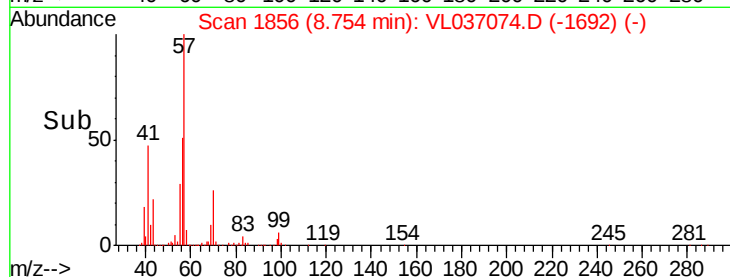
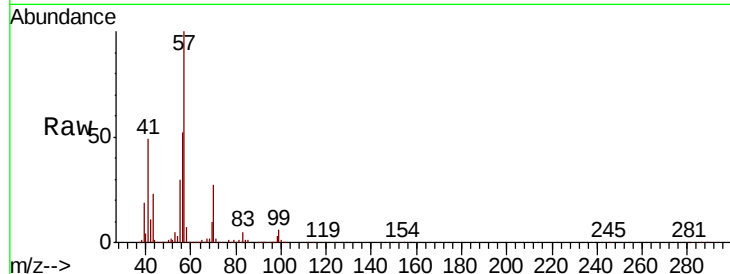
#50
4-Methyl-2-Pentanone
Concen: 0.882 ppbv m
RT: 8.75 min Scan# 1856
Delta R.T. 0.03 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Instrument :
MSVOA_L
ClientSampled :
HSG3DL

Tot Ion: 43 Resp: 248604
Ion Ratio Lower Upper
43 100
58 33.0 29.4 44.2

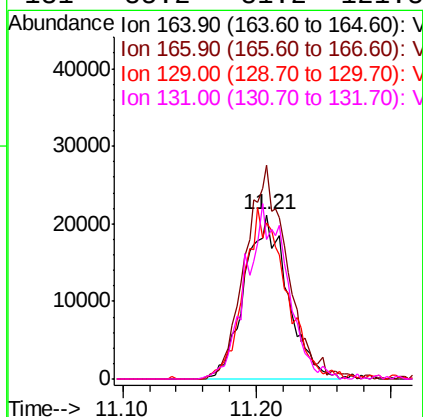
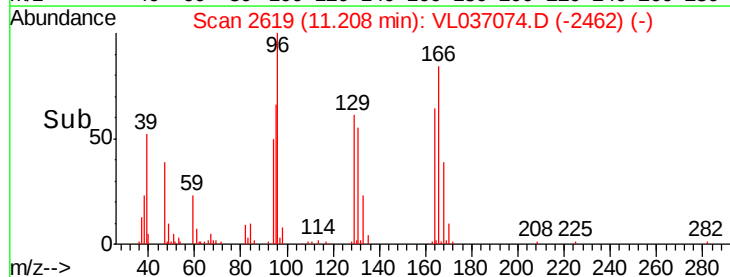
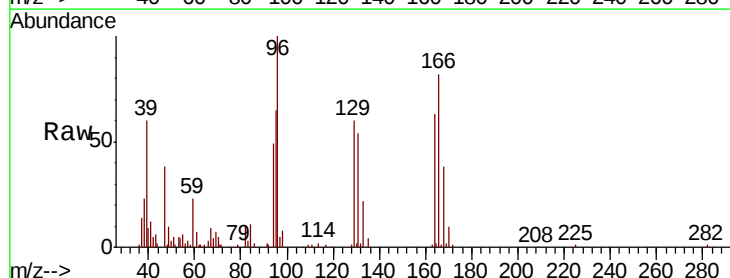
Manual Integrations
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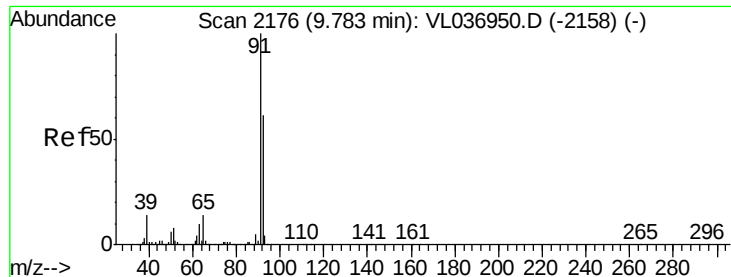
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#52
Tetrachloroethene
Concen: 0.291 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T. 0.01 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Tgt Ion: 164 Resp: 46792
Ion Ratio Lower Upper
164 100
166 130.2 105.5 158.3
129 94.9 81.8 122.8
131 85.2 81.2 121.8





#53

Toluene

Concen: 10.562 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL037074.D

Acq: 1 Jun 2021 17:41

Instrument :

MSVOA_L

ClientSampleId :

HSG3DL

Tot Ion: 91 Resp: 5076440

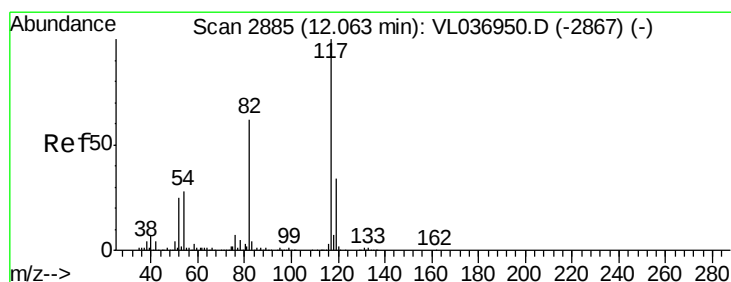
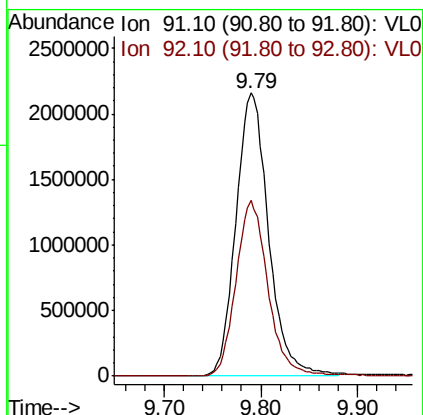
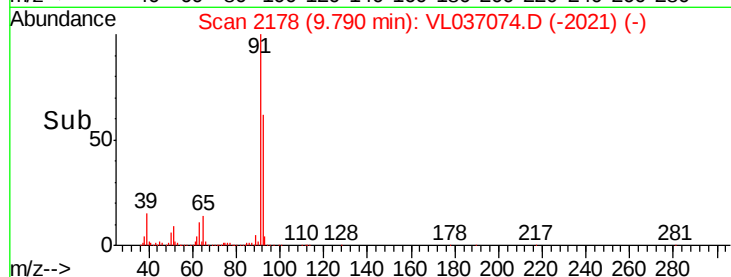
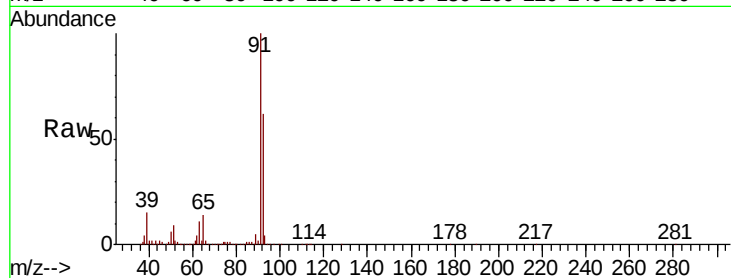
Ion Ratio Lower Upper

91 100

92 61.5 49.5 74.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL037074.D

Acq: 1 Jun 2021 17:41

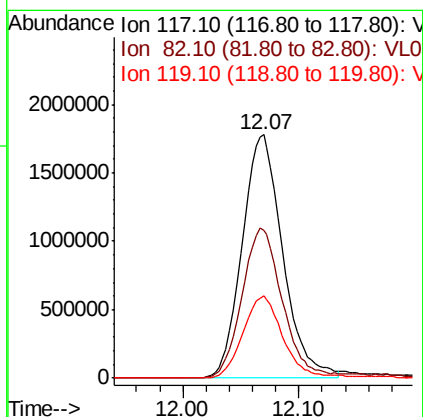
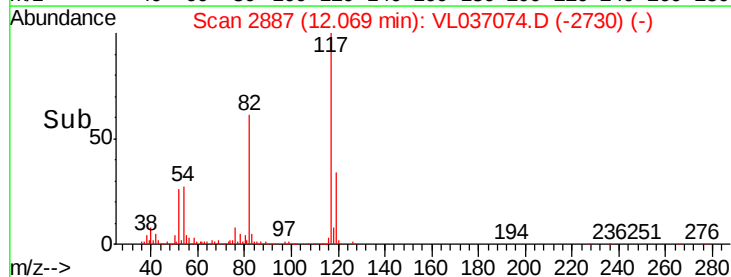
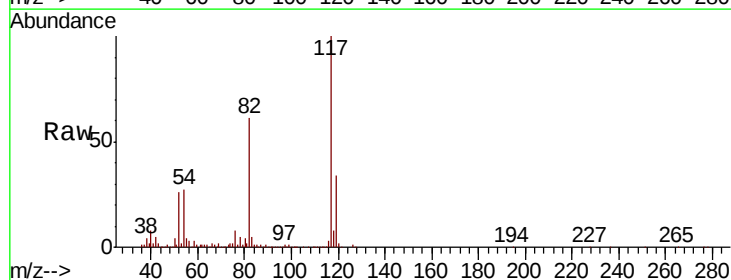
Tgt Ion: 117 Resp: 4324558

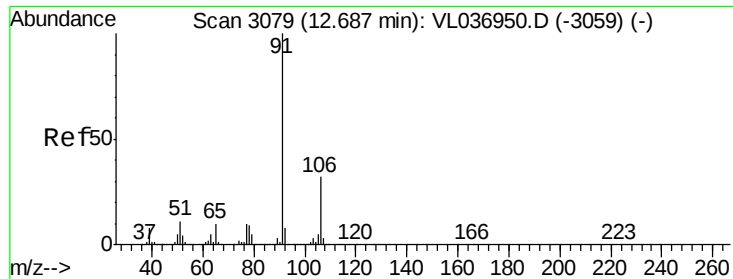
Ion Ratio Lower Upper

117 100

82 64.9 52.6 79.0

119 34.4 46.6 70.0#





#58

Ethyl Benzene

Concen: 1.162 ppbv

RT: 12.70 min Scan# 3082

Delta R.T. 0.01 min

Lab File: VL037074.D

Acq: 1 Jun 2021 17:41

Instrument :

MSVOA_L

ClientSampleId :

HSG3DL

Tot Ion: 91 Resp: 709145

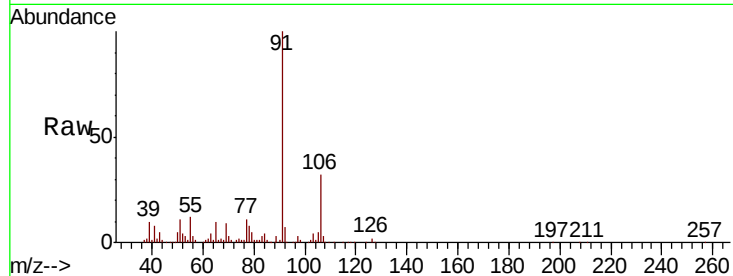
Ion Ratio Lower Upper

91 100

106 32.5 25.6 38.4

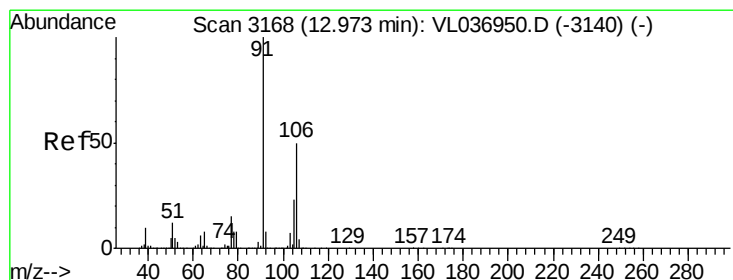
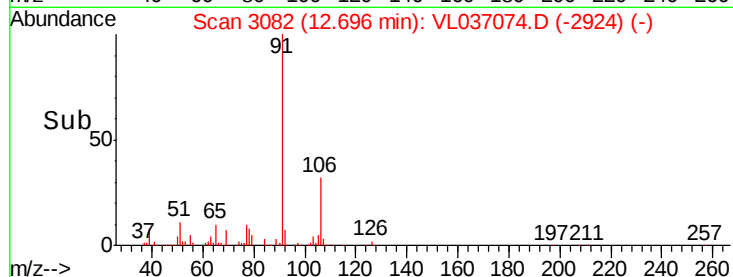
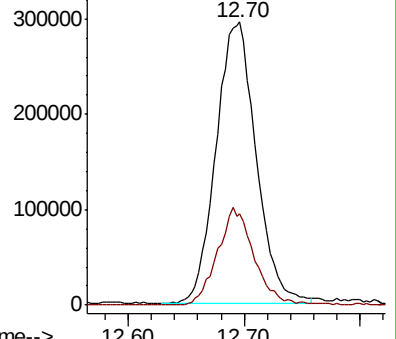
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 3.763 ppbv

RT: 12.95 min Scan# 3160

Delta R.T. -0.03 min

Lab File: VL037074.D

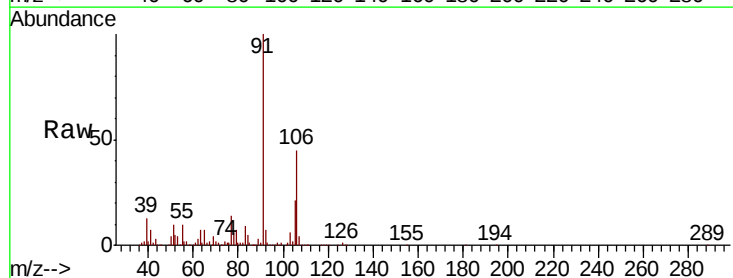
Acq: 1 Jun 2021 17:41

Tgt Ion: 91 Resp: 1898464

Ion Ratio Lower Upper

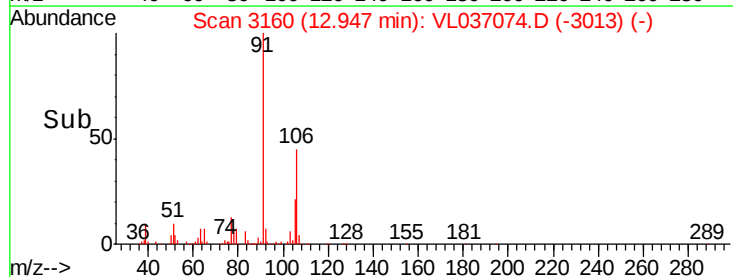
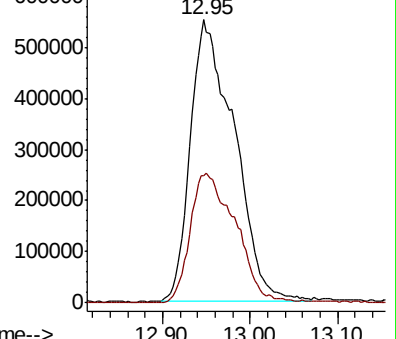
91 100

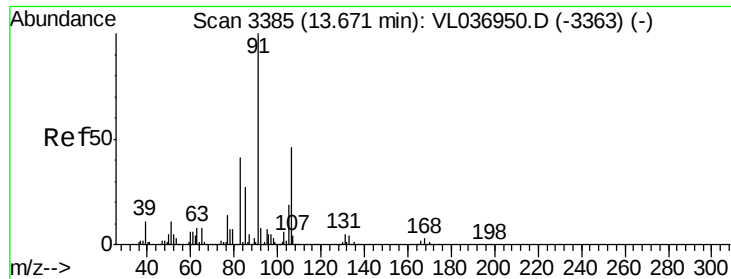
106 49.1 37.4 56.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





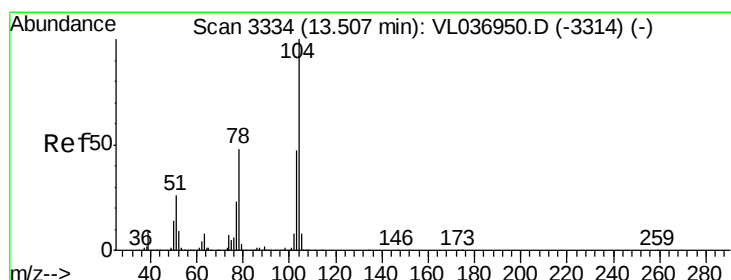
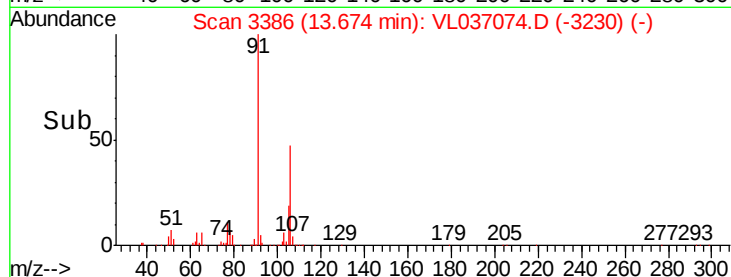
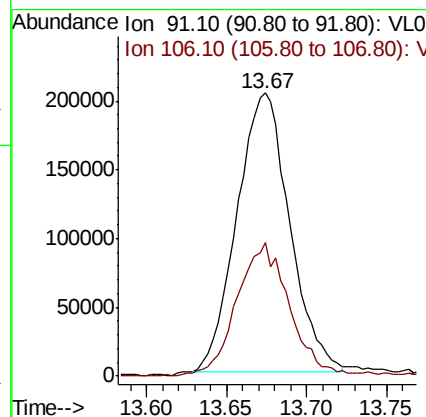
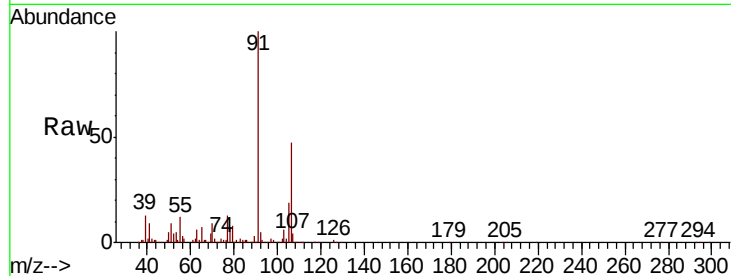
#60
o-Xylene
Concen: 0.952 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. 0.00 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Instrument :
MSVOA_L
ClientSampleId :
HSG3DL

Tot Ion: 91 Resp: 458157
Ion Ratio Lower Upper
91 100
106 48.6 23.4 70.3

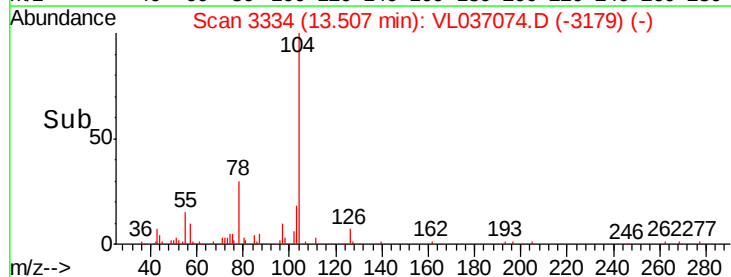
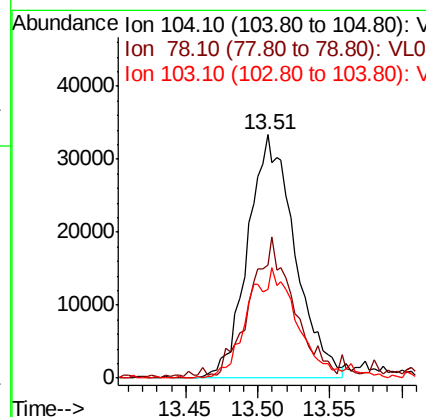
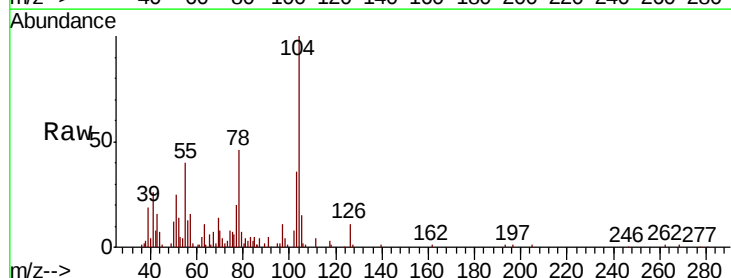
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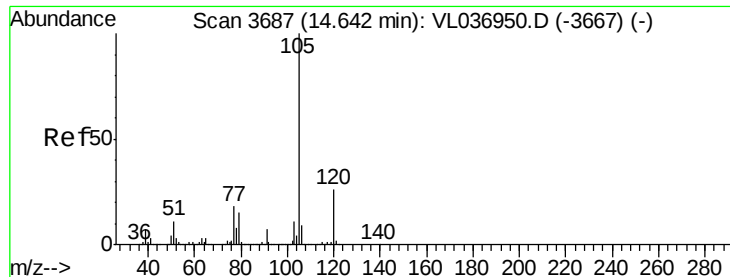
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#61
Styrene
Concen: 0.280 ppbv m
RT: 13.51 min Scan# 3334
Delta R.T. -0.00 min
Lab File: VL037074.D
Acq: 1 Jun 2021 17:41

Tgt Ion: 104 Resp: 75836
Ion Ratio Lower Upper
104 100
78 54.4 39.0 58.6
103 49.5 38.0 57.0





#62

Isopropylbenzene

Concen: 2.224 ppbv

RT: 14.65 min Scan# 3690

Delta R.T. 0.01 min

Lab File: VL037074.D

Acq: 1 Jun 2021 17:41

Instrument :

MSVOA_L

ClientSampleId :

HSG3DL

Tot Ion:105 Resp: 1538006

Ion Ratio Lower Upper

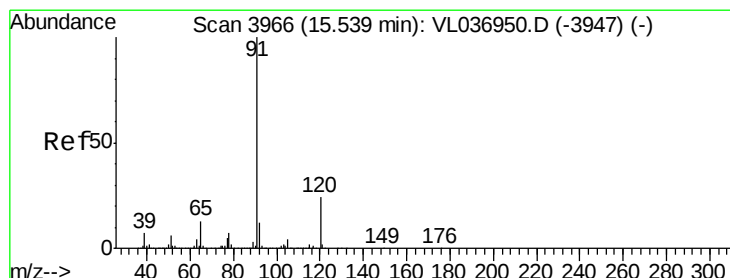
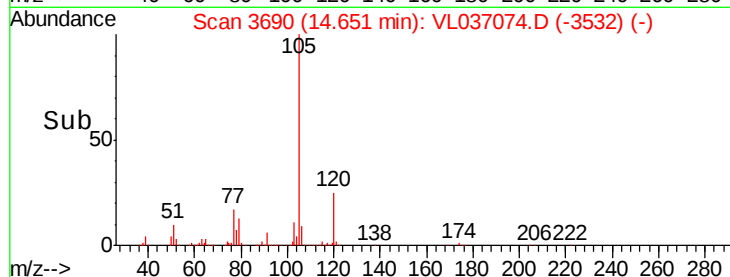
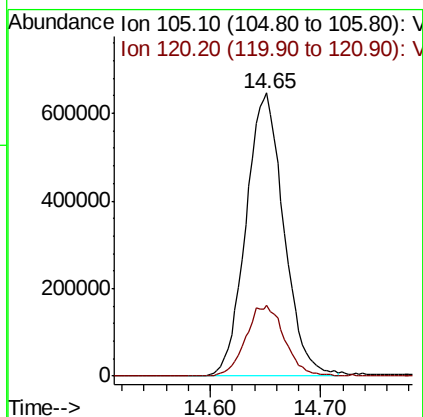
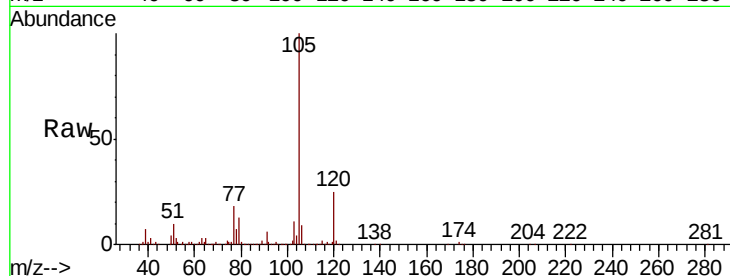
105 100

120 25.7 21.7 32.5

Manual Integrations
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#64

n-propylbenzene

Concen: 0.241 ppbv m

RT: 15.55 min Scan# 3970

Delta R.T. 0.01 min

Lab File: VL037074.D

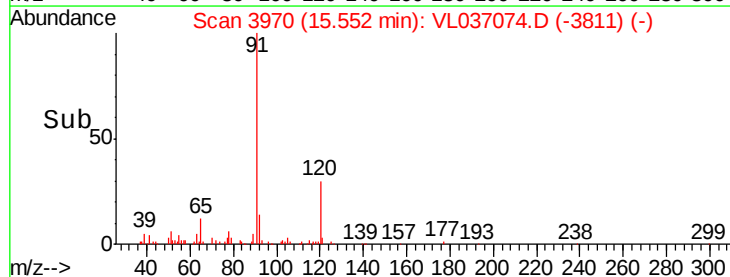
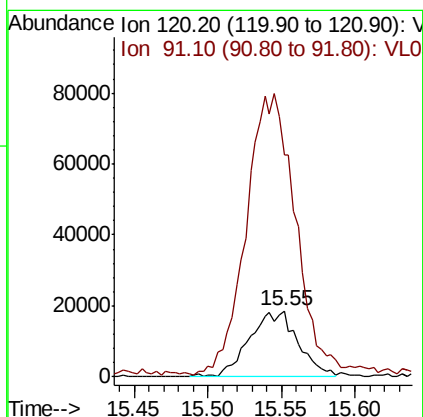
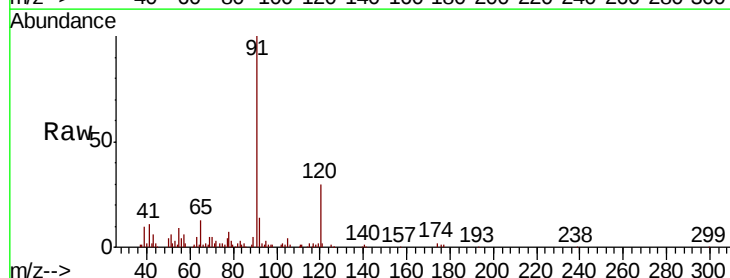
Acq: 1 Jun 2021 17:41

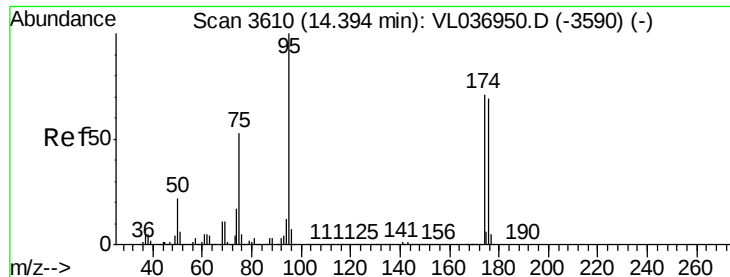
Tgt Ion:120 Resp: 42985

Ion Ratio Lower Upper

120 100

91 437.9 343.8 515.6





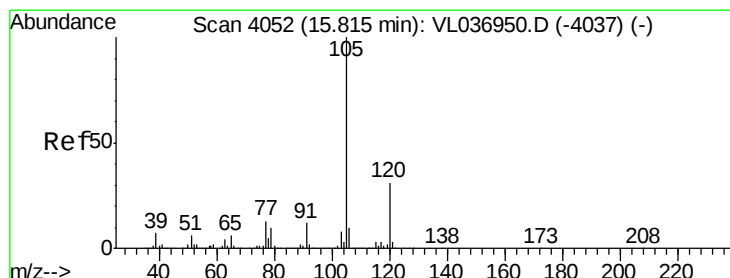
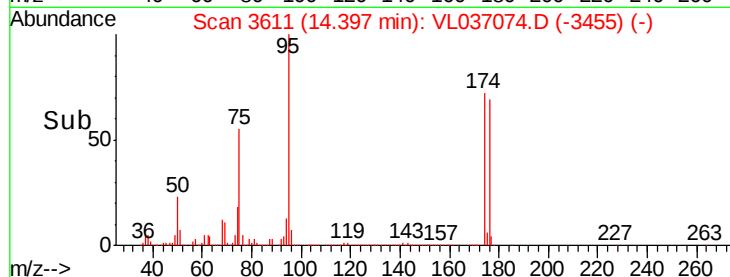
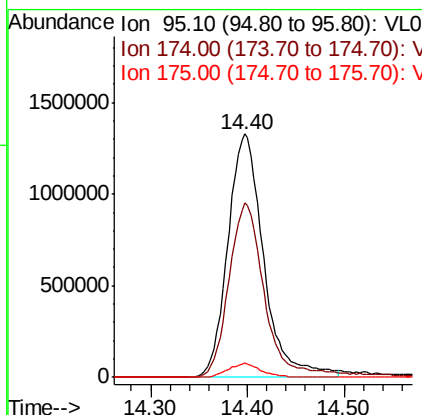
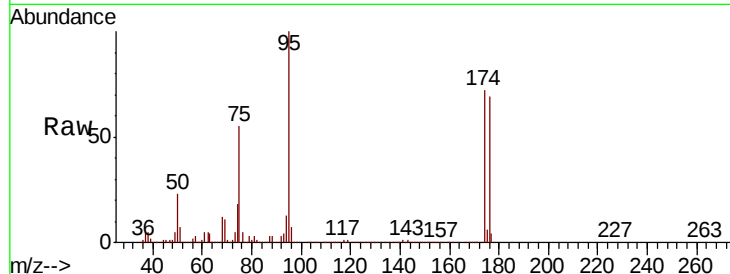
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.502 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. 0.00 min
 Lab File: VL037074.D
 Acq: 1 Jun 2021 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG3DL

Tot Ion: 95 Resp: 3411733
 Ion Ratio Lower Upper
 95 100
 174 73.4 58.4 87.6
 175 5.5 4.4 6.6

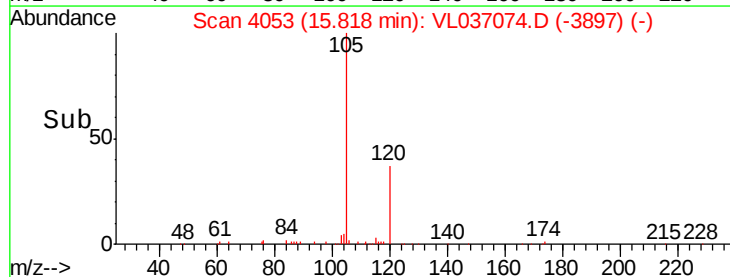
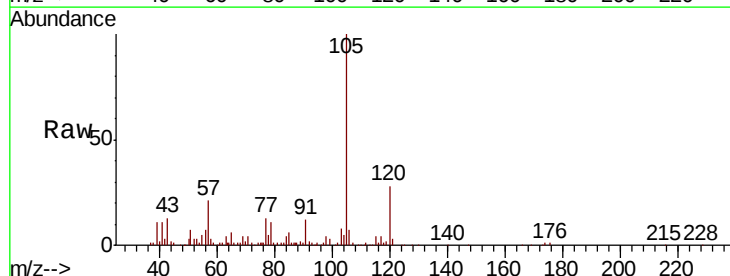
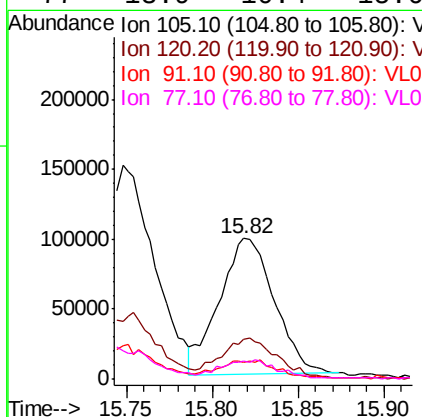
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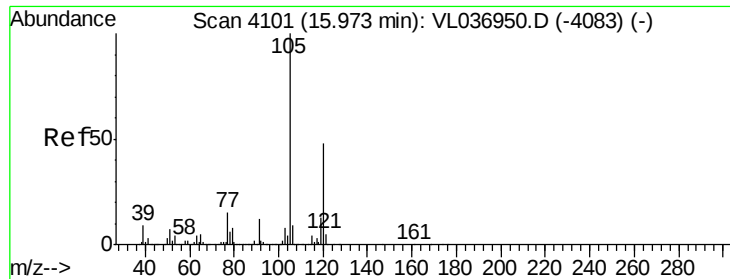
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#72
 4-Ethyltoluene
 Concen: 0.383 ppbv
 RT: 15.82 min Scan# 4053
 Delta R.T. 0.00 min
 Lab File: VL037074.D
 Acq: 1 Jun 2021 17:41

Tgt Ion: 105 Resp: 218530
 Ion Ratio Lower Upper
 105 100
 120 32.3 24.6 37.0
 91 14.4 9.8 14.6
 77 13.9 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 0.199 ppbv m

RT: 15.99 min Scan# 4105

Delta R.T. 0.01 min

Lab File: VL037074.D

Acq: 1 Jun 2021 17:41

Instrument :

MSVOA_L

ClientSampleId :

HSG3DL

Tot Ion:105 Resp: 106867

Ion Ratio Lower Upper

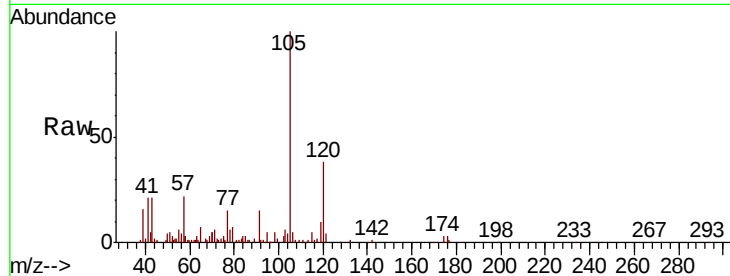
105 100

120 38.0 38.6 58.0#

Manual Integrations
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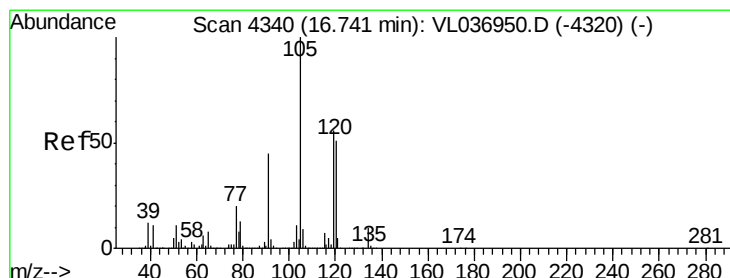
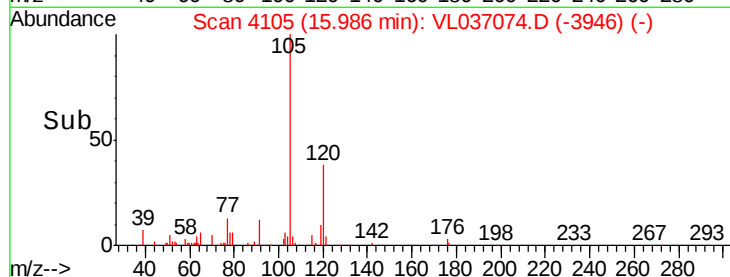
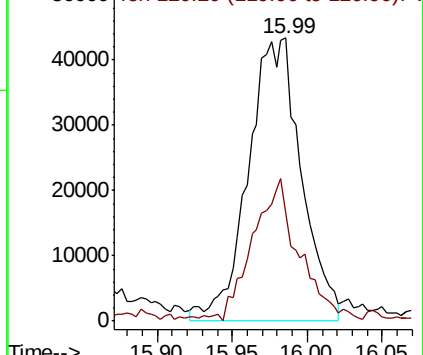
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.690 ppbv m

RT: 16.75 min Scan# 4342

Delta R.T. 0.01 min

Lab File: VL037074.D

Acq: 1 Jun 2021 17:41

Tgt Ion:105 Resp: 382833

Ion Ratio Lower Upper

105 100

120 43.9 40.6 61.0

91 10.8 37.4 56.0#

77 12.6 16.2 24.4#

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

