

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037338.D
 Acq On : 5 Aug 2021 11:17
 Operator : SY/AP
 Sample : M3239-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
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 8/5/2021 4:39:07 PM

Quant Time: Aug 05 14:20:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 0
 QLast Update : Wed Aug 04 22:53:01 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	960350	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3290276	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2847700	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2034508	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	23354	0.120	ppbv	98
9) Propene	3.01	41	20062m	0.284	ppbv	
10) Heptane	8.11	43	44183	0.268	ppbv	92
13) Ethanol	3.64	45	22058m	2.074	ppbv	
15) Acetone	3.86	43	271996	2.607	ppbv #	83
17) tert-Butyl alcohol	4.33	59	14988m	0.143	ppbv	
19) Isopropyl Alcohol	4.00	45	15610m	0.270	ppbv	
26) Hexane	5.68	57	198345	1.307	ppbv #	47
29) Chloroform	5.74	83	37053m	0.193	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	12674m	0.069	ppbv	
34) 2-Butanone	5.26	43	61371	0.538	ppbv #	77
51) 2-Hexanone	10.15	43	58712m	0.739	ppbv	
52) Tetrachloroethene	11.21	164	11062m	0.087	ppbv	
53) Toluene	9.80	91	236360	0.676	ppbv	99
59) m/p-Xylene	12.95	91	87207m	0.248	ppbv	
60) o-Xylene	13.67	91	47213	0.147	ppbv	98
61) Styrene	13.51	104	28266m	0.161	ppbv	
64) n-propylbenzene	15.54	120	14723	0.121	ppbv	99
65) tert-Butylbenzene	16.74	119	50671m	0.118	ppbv	
70) n-Butylbenzene	18.54	91	81452m	0.183	ppbv	
72) 4-Ethyltoluene	15.82	105	64143m	0.166	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	66800	0.192	ppbv	88
74) 1,2,4-Trimethylbenzene	16.75	105	224927	0.606	ppbv #	76

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

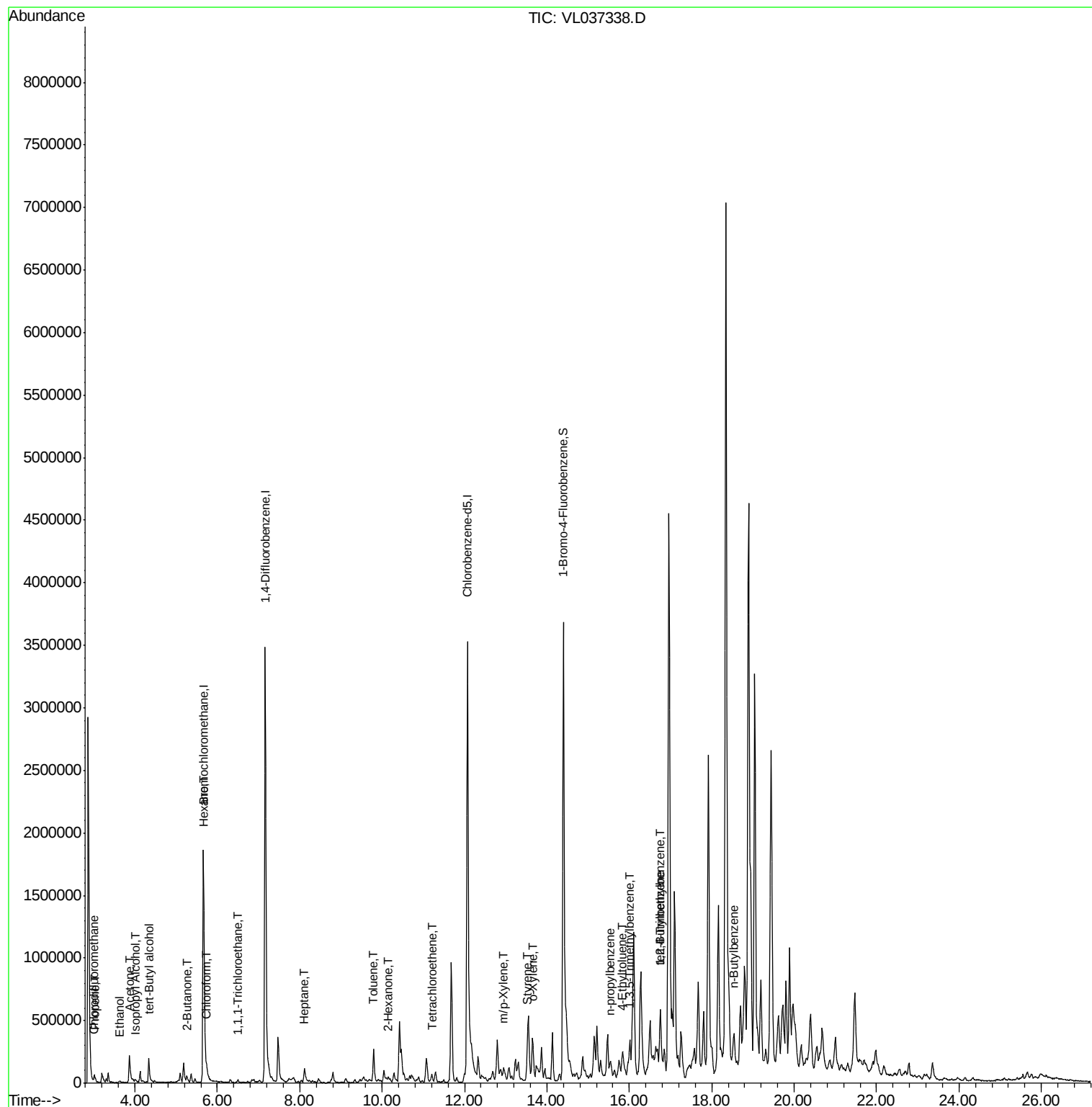
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080421\
Data File : VL037338.D
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Operator : SY/AP
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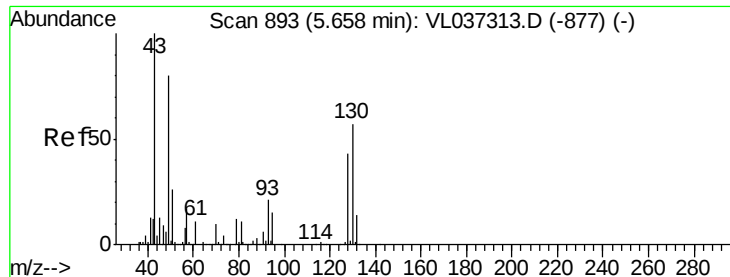
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

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Quant Time: Aug 05 14:20:29 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 04 22:53:01 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL037338.D

Acq: 5 Aug 2021 11:17

Instrument :

MSVOA_L

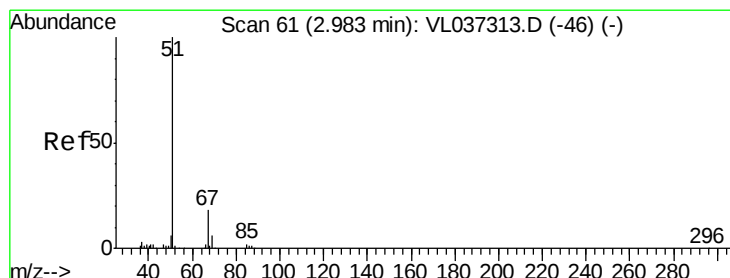
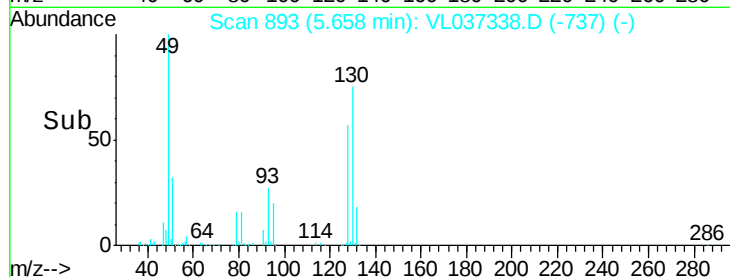
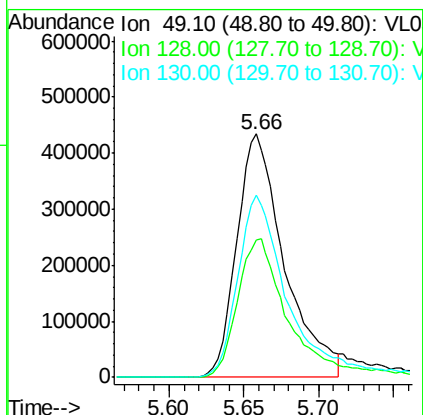
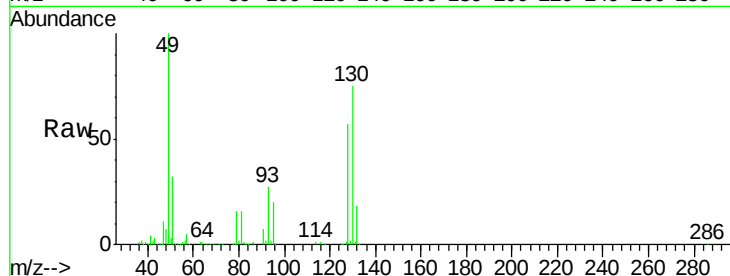
ClientSampled :

SV1DL

Tot Ion:	49	Resp:	960350
Ion Ratio	Lower	Upper	
49	100		
128	62.1	29.8	89.5
130	81.1	37.5	112.7

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#3

Chlorodifluoromethane

Concen: 0.120 ppbv

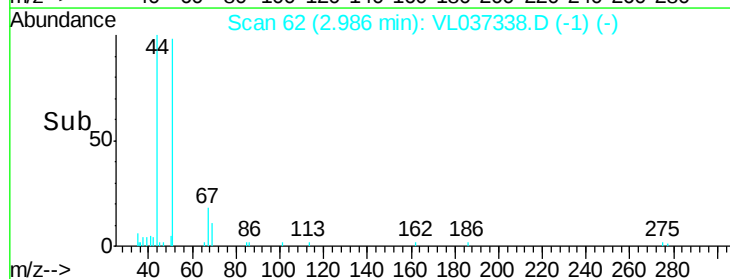
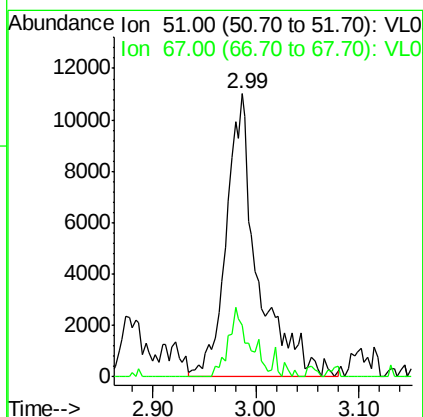
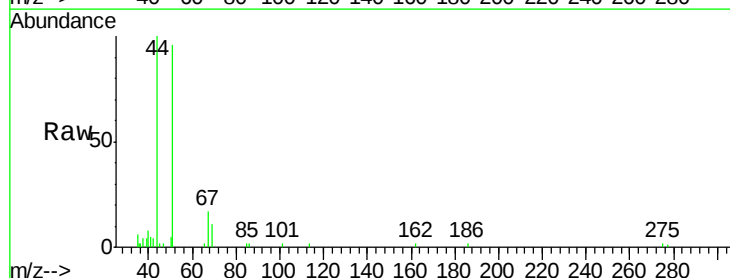
RT: 2.99 min Scan# 62

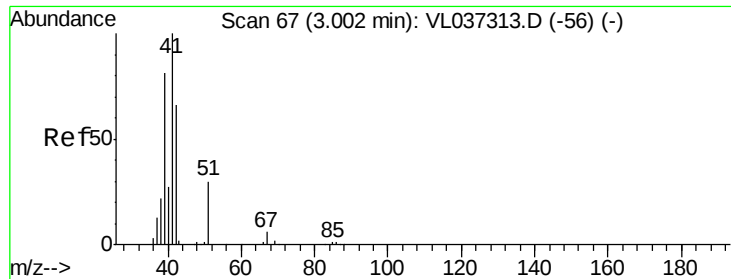
Delta R.T. 0.00 min

Lab File: VL037338.D

Acq: 5 Aug 2021 11:17

Tgt Ion:	51	Resp:	23354
Ion Ratio	Lower	Upper	
51	100		
67	18.6	14.2	21.2





#9

Propene

Concen: 0.284 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037338.D

Acq: 5 Aug 2021 11:17

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion: 41 Resp: 20062

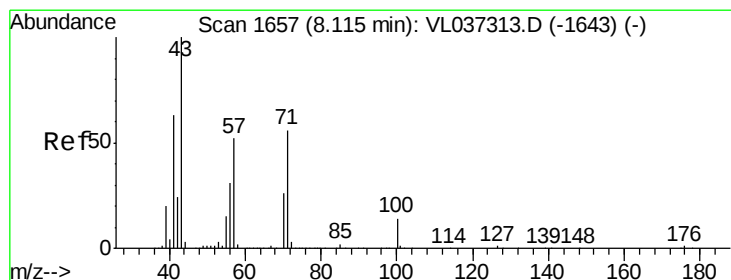
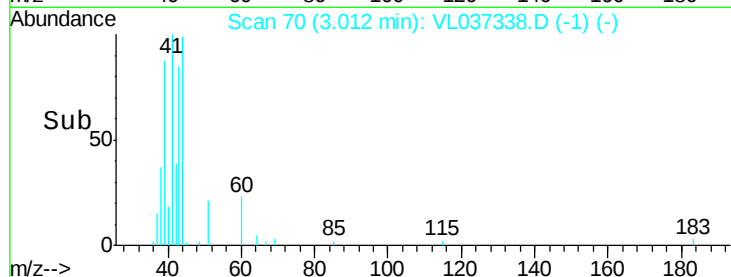
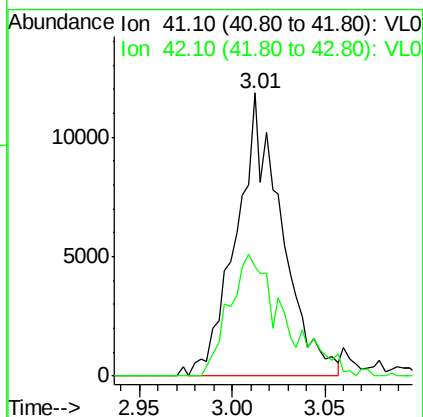
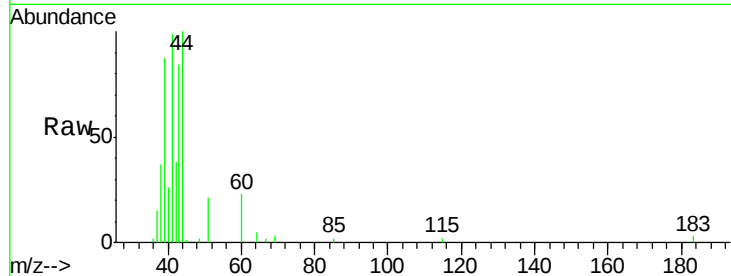
Ion Ratio Lower Upper

41 100

42 53.0 53.8 80.8#

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#10

Heptane

Concen: 0.268 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.01 min

Lab File: VL037338.D

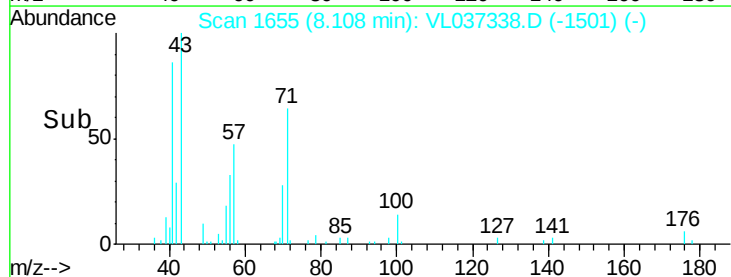
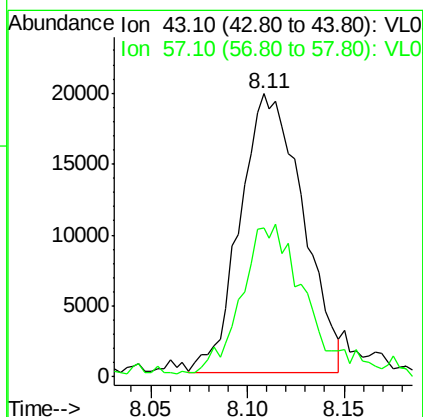
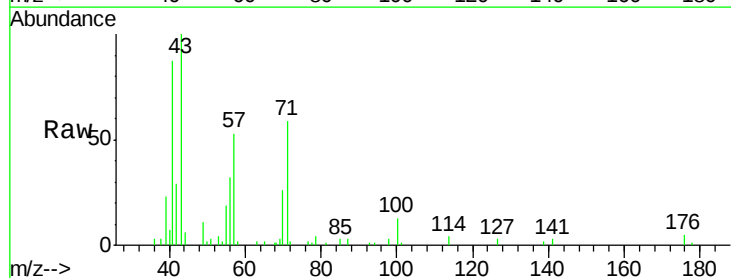
Acq: 5 Aug 2021 11:17

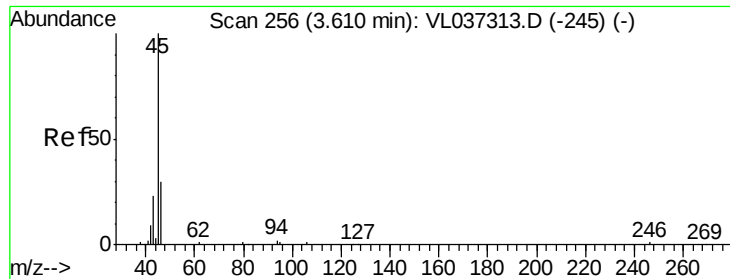
Tgt Ion: 43 Resp: 44183

Ion Ratio Lower Upper

43 100

57 58.5 42.4 63.6





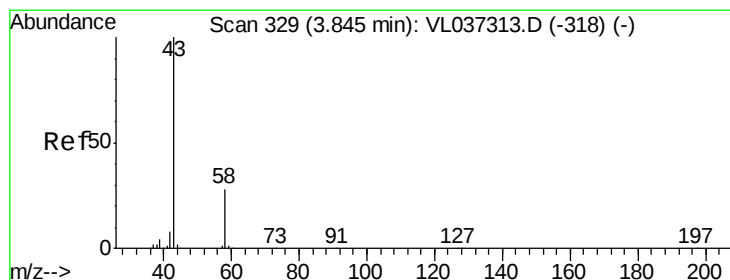
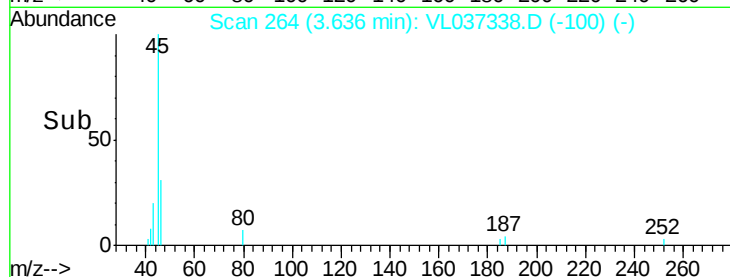
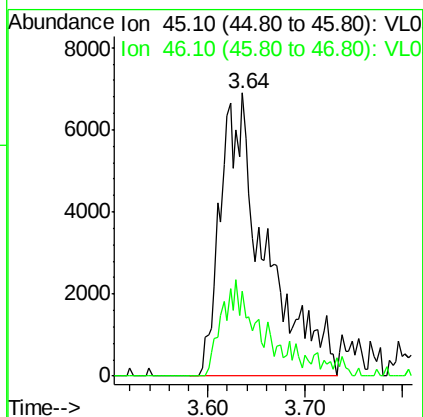
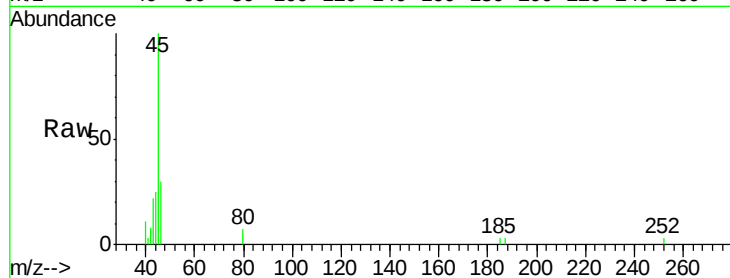
#13
Ethanol
Concen: 2.074 ppbv m
RT: 3.64 min Scan# 264
Delta R.T. 0.03 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	16.6	66.4#

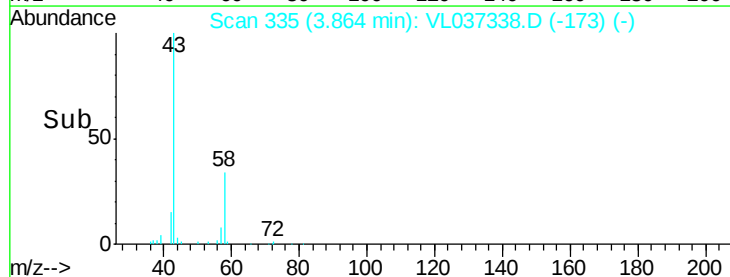
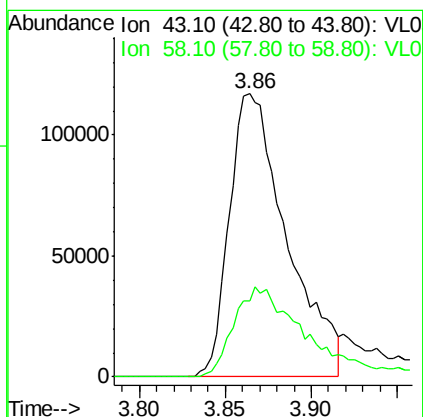
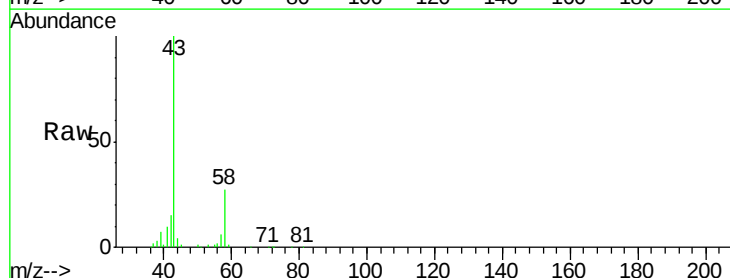
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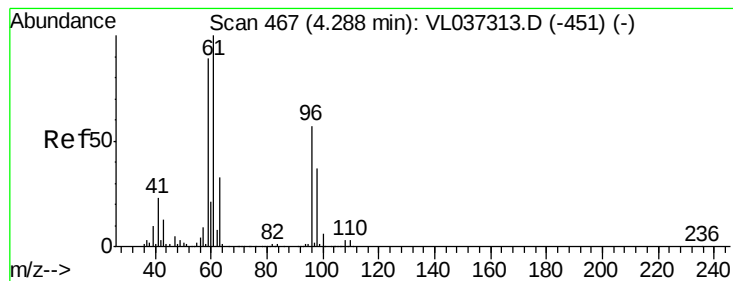
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#15
Acetone
Concen: 2.607 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.02 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.1	25.3	37.9#





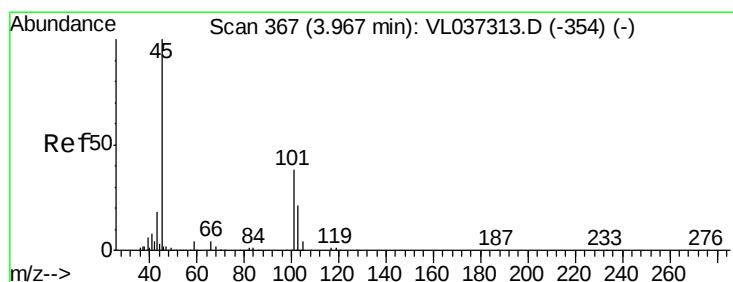
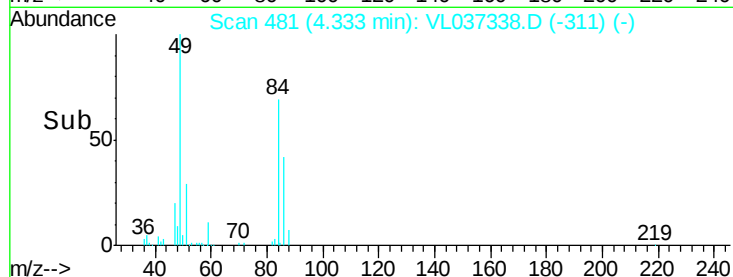
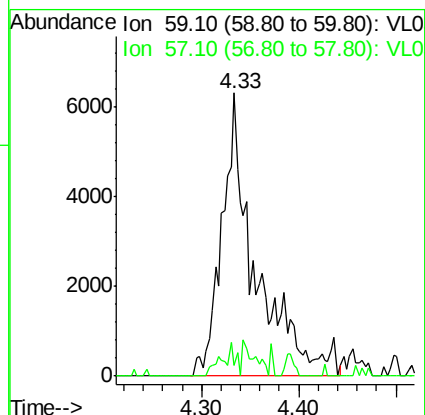
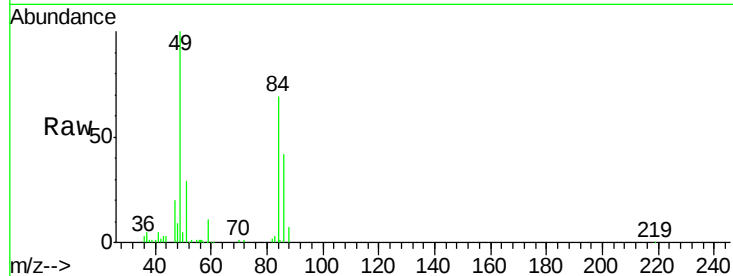
#17
tert-Butyl alcohol
Concen: 0.143 ppbv m
RT: 4.33 min Scan# 481
Delta R.T. 0.05 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion: 59 Resp: 14988
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

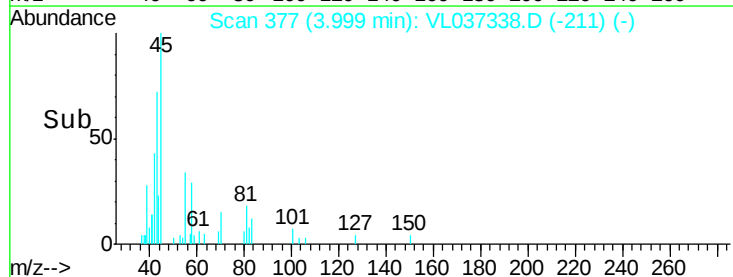
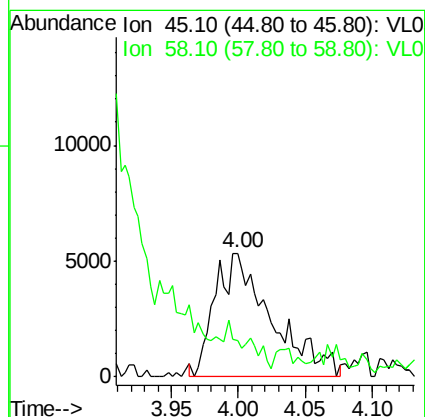
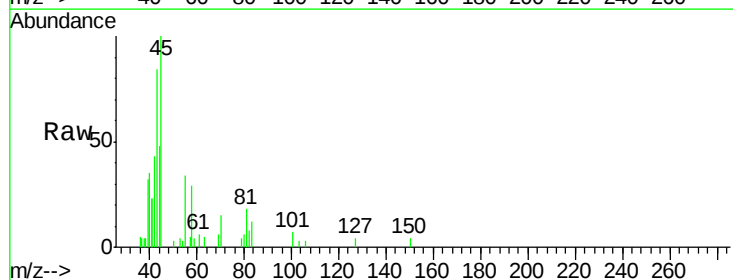
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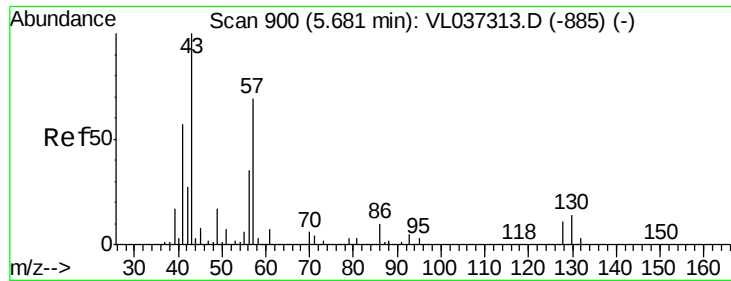
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#19
Isopropyl Alcohol
Concen: 0.270 ppbv m
RT: 4.00 min Scan# 377
Delta R.T. 0.03 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Tgt Ion: 45 Resp: 15610
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.8#





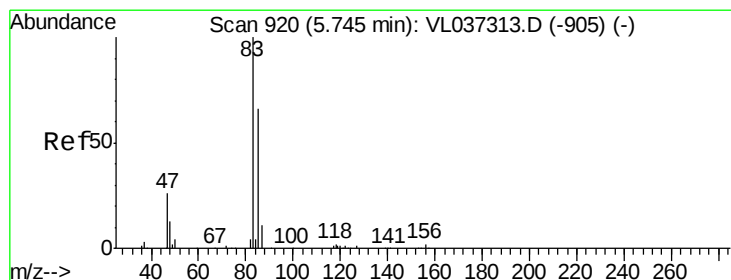
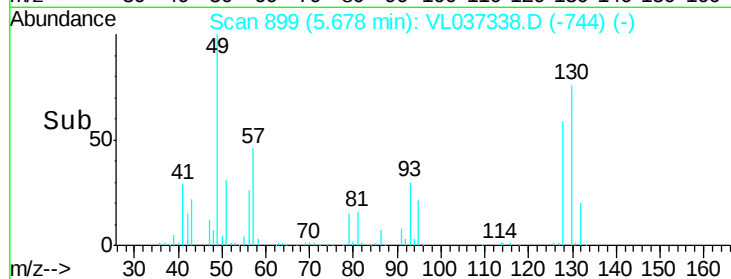
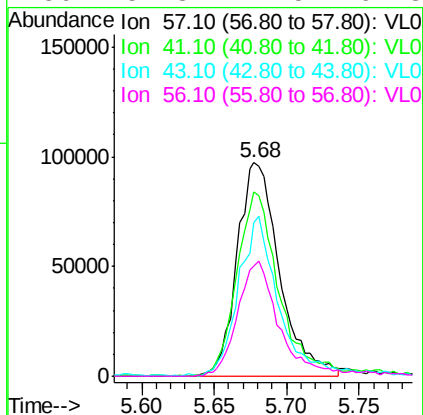
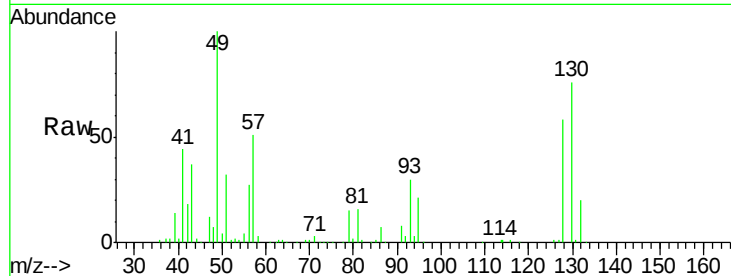
#26
Hexane
Concen: 1.307 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		198345		
41	90.2	67.5	101.3		
43	73.3	163.0	244.4#		
56	54.3	41.5	62.3		

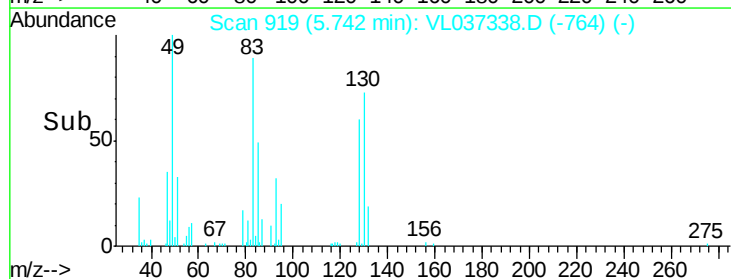
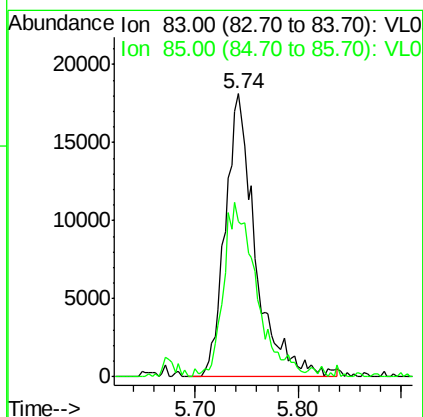
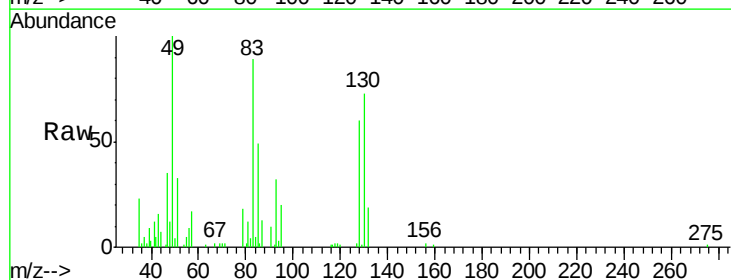
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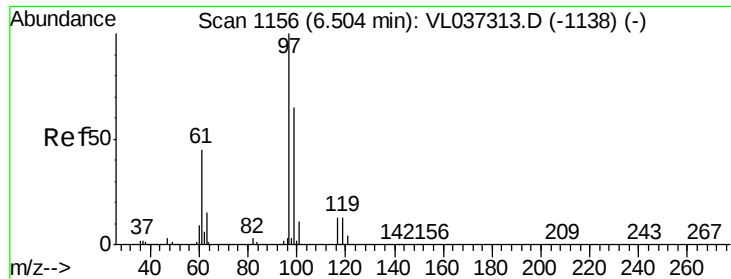
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#29
Chloroform
Concen: 0.193 ppbv m
RT: 5.74 min Scan# 919
Delta R.T. -0.00 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		37053		
85	54.8	52.6	79.0		





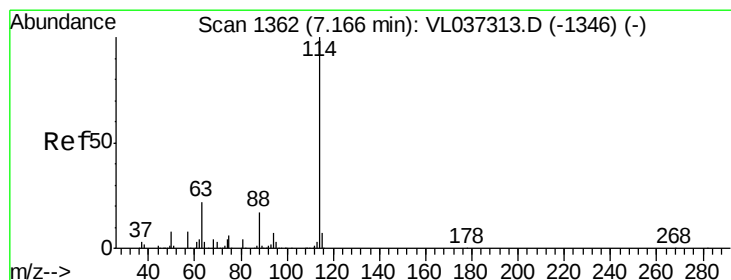
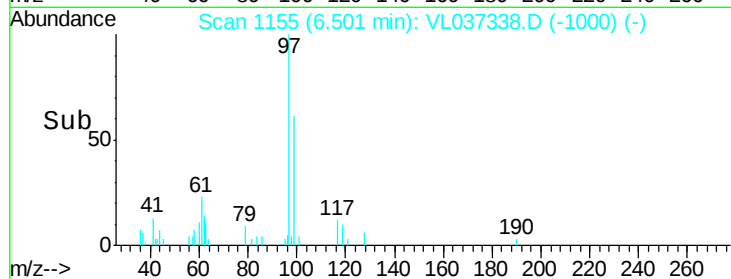
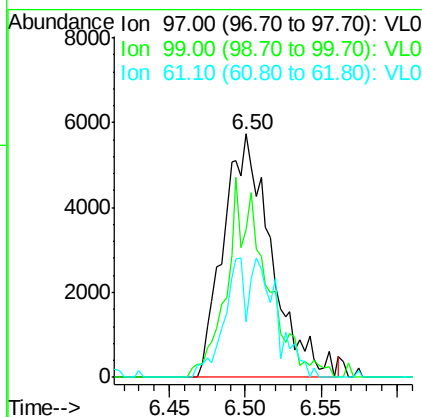
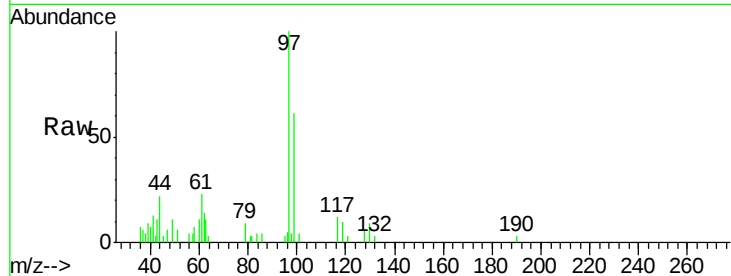
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 1,1,1-Trichloroethane
 Concen: 0.069 ppbv m
 RT: 6.50 min Scan# 1155
 Delta R.T. -0.00 min
 Lab File: VL037338.D
 Acq: 5 Aug 2021 11:17

Instrument :
 MSVOA_L
 ClientSampled :
 SV1DL

Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	0.0	37.2	55.8#

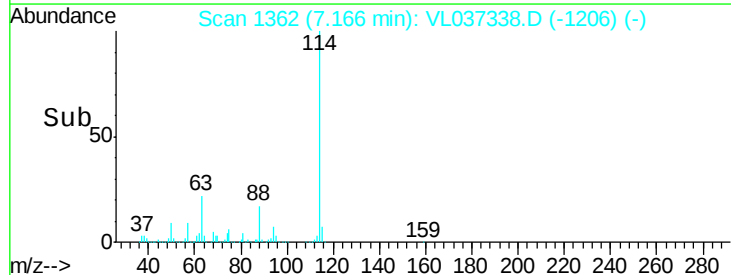
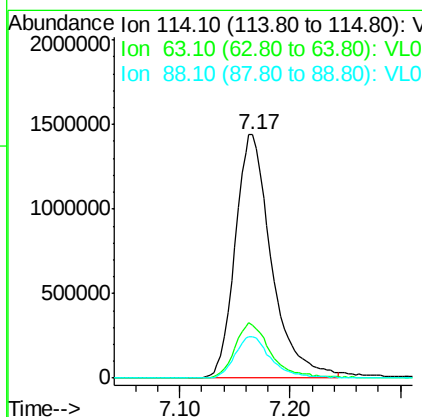
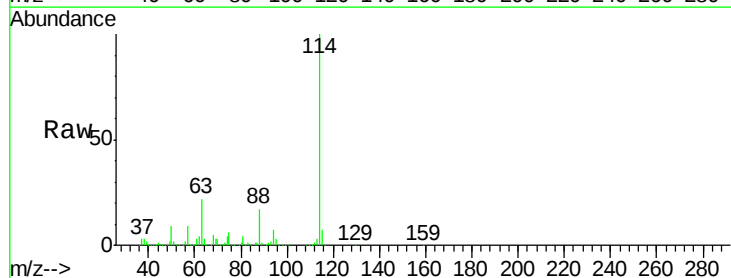
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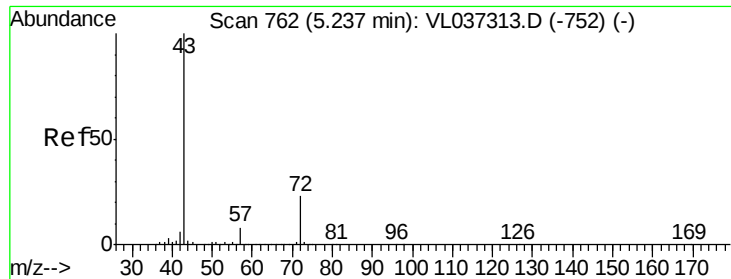
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VL037338.D
 Acq: 5 Aug 2021 11:17

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.7	18.1	27.1
88	17.3	13.8	20.8





#34

2-Butanone

Concen: 0.538 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.02 min

Lab File: VL037338.D

Acq: 5 Aug 2021 11:17

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion: 43 Resp: 61371

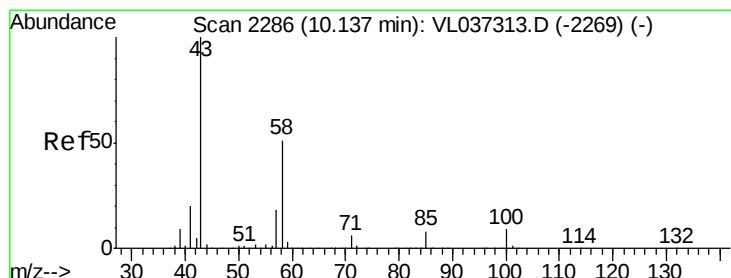
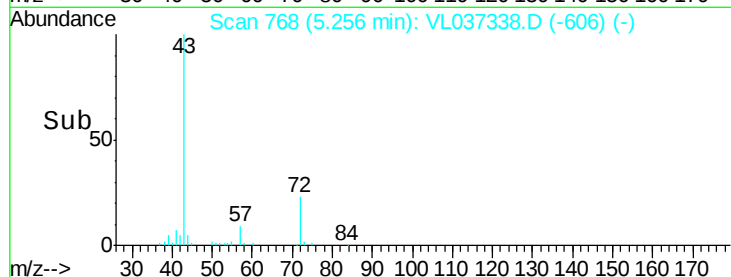
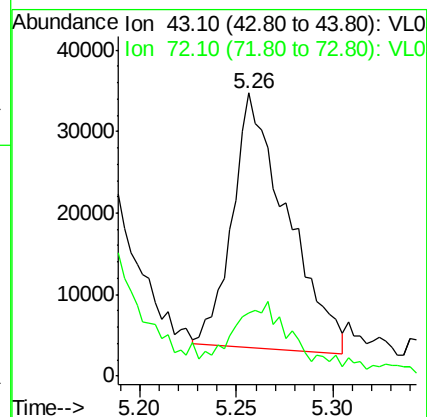
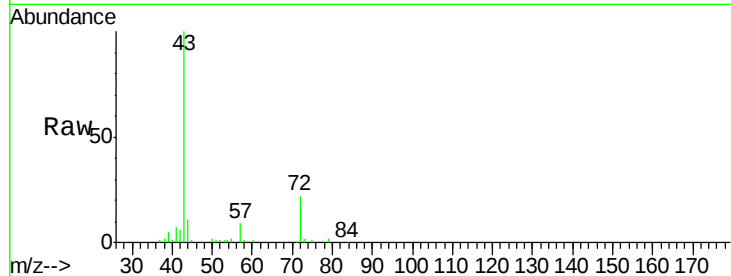
Ion Ratio Lower Upper

43 100

72 36.8 20.3 30.5#

Manual Integrations
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#51

2-Hexanone

Concen: 0.739 ppbv m

RT: 10.15 min Scan# 2290

Delta R.T. 0.01 min

Lab File: VL037338.D

Acq: 5 Aug 2021 11:17

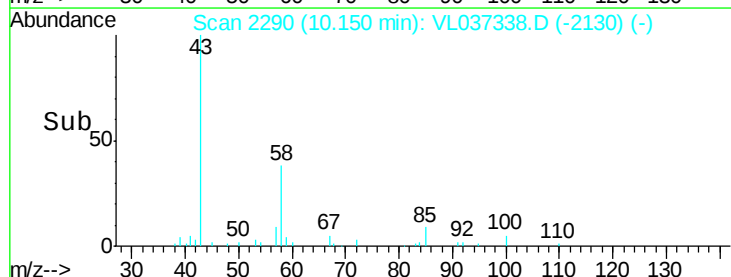
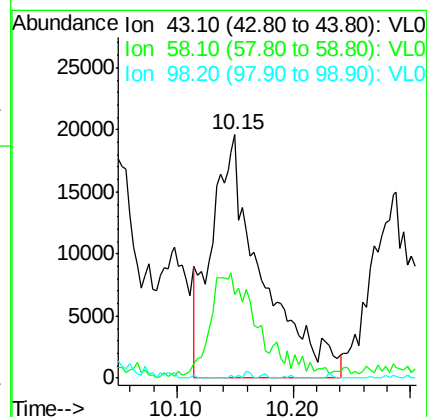
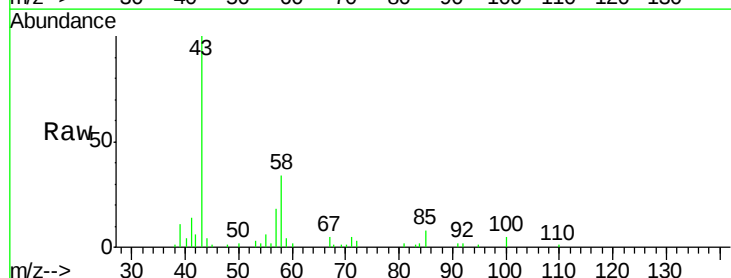
Tgt Ion: 43 Resp: 58712

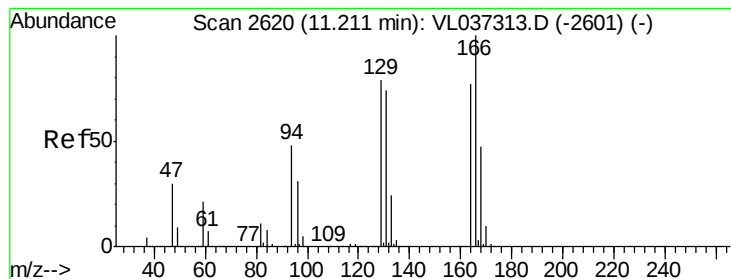
Ion Ratio Lower Upper

43 100

58 0.0 40.9 61.3#

98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.087 ppbv m

RT: 11.21 min Scan# 2619

Delta R.T. -0.00 min

Lab File: VL037338.D

Acq: 5 Aug 2021 11:17

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion:164 Resp: 11062

Ion Ratio Lower Upper

164 100

166 112.7 103.4 155.2

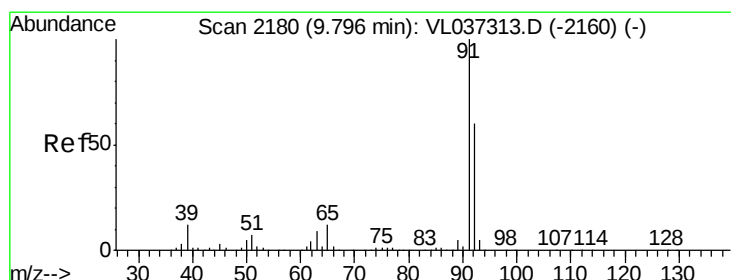
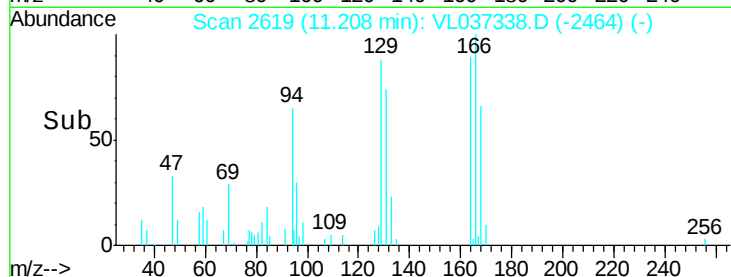
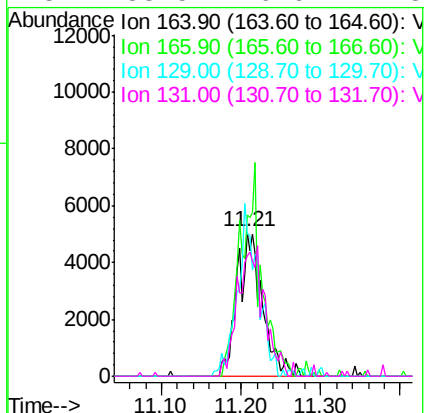
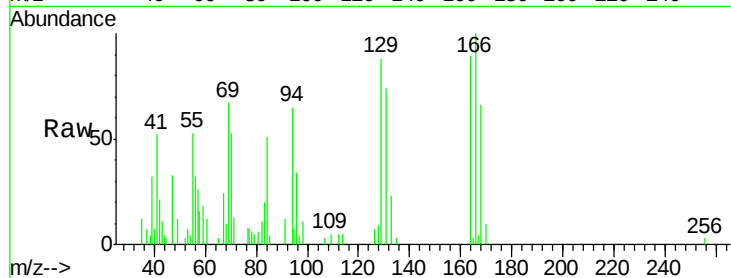
129 98.8 82.2 123.2

131 83.5 76.6 114.8

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#53

Toluene

Concen: 0.676 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL037338.D

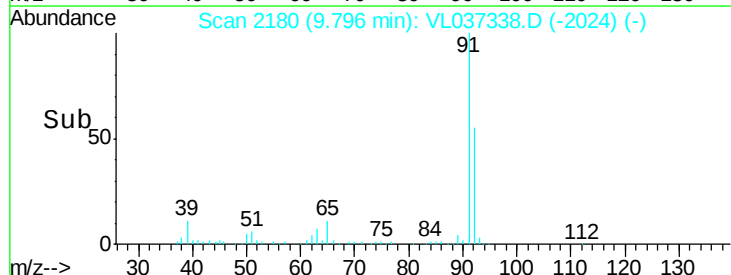
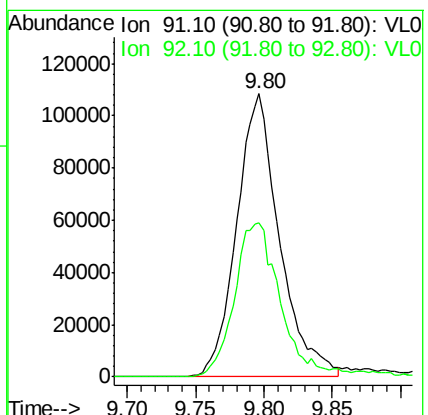
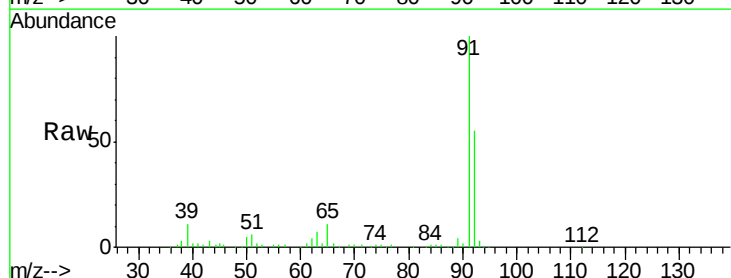
Acq: 5 Aug 2021 11:17

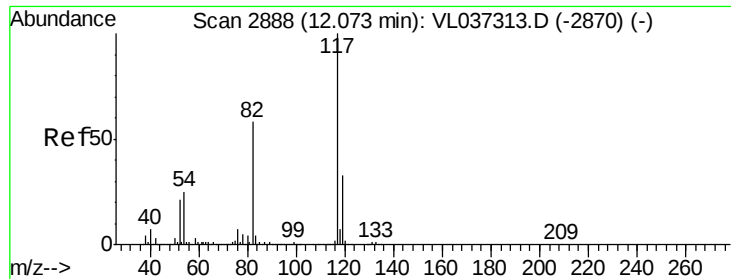
Tgt Ion: 91 Resp: 236360

Ion Ratio Lower Upper

91 100

92 60.2 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VL037338.D

Acq: 5 Aug 2021 11:17

Instrument :

MSVOA_L

ClientSampled :

SV1DL

Tot Ion:117 Resp: 2847700

Ion Ratio Lower Upper

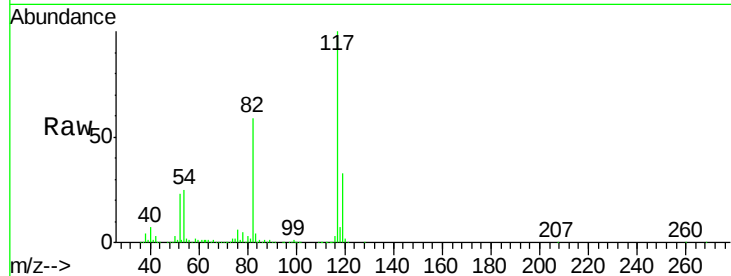
117 100

82 59.1 50.3 75.5

119 35.8 48.2 72.2#

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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

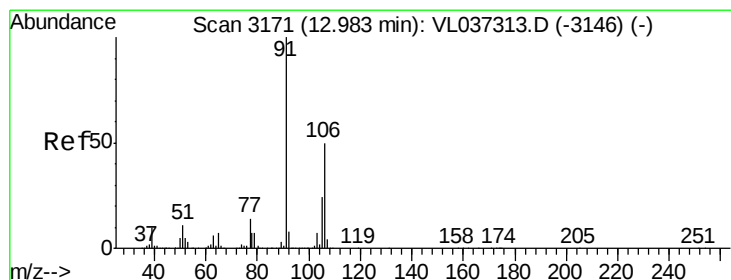
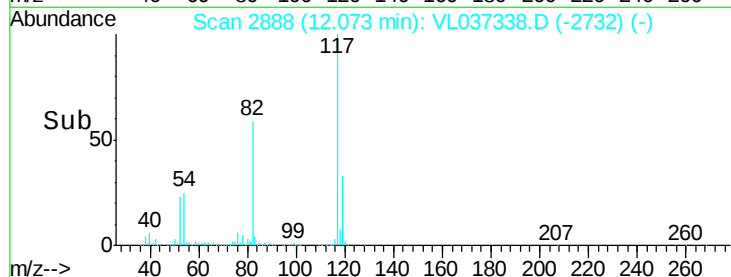
12.07

1000000

500000

0

Time-->



#59

m/p-Xylene

Concen: 0.248 ppbv m

RT: 12.95 min Scan# 3161

Delta R.T. -0.03 min

Lab File: VL037338.D

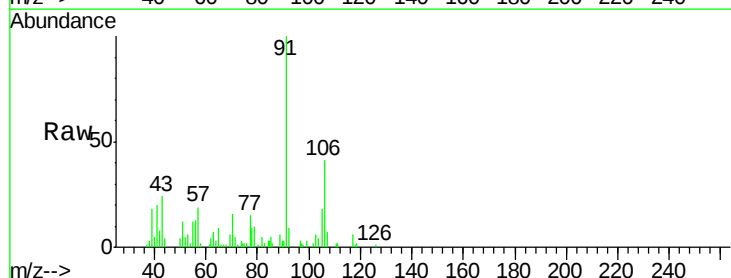
Acq: 5 Aug 2021 11:17

Tgt Ion: 91 Resp: 87207

Ion Ratio Lower Upper

91 100

106 0.0 37.8 56.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.95

30000

25000

20000

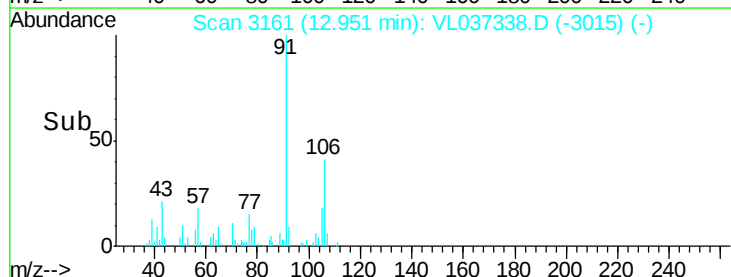
15000

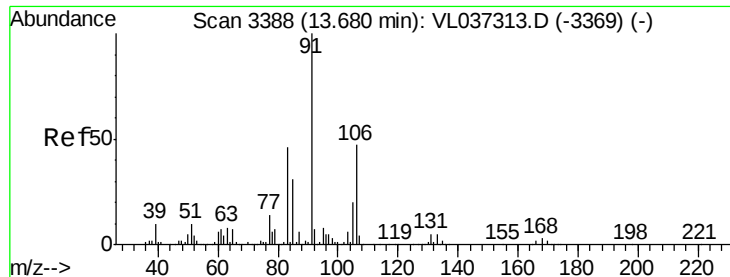
10000

5000

0

Time-->





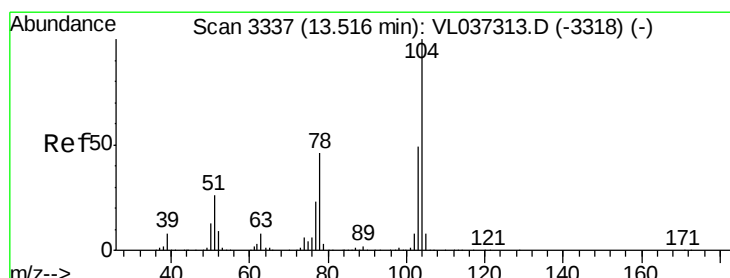
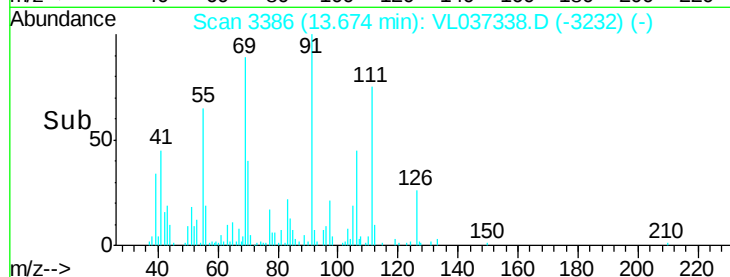
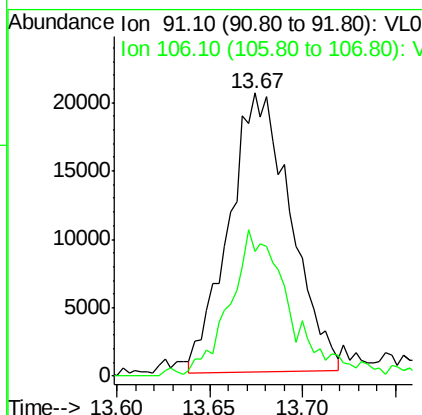
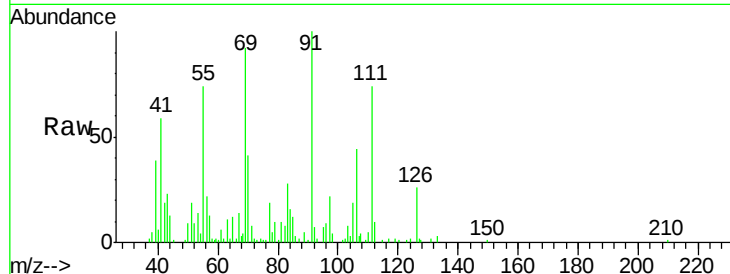
#60
o-Xylene
Concen: 0.147 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion: 91 Resp: 47213
Ion Ratio Lower Upper
91 100
106 51.1 26.3 78.8

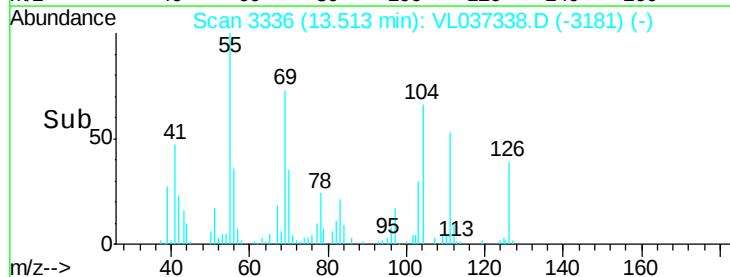
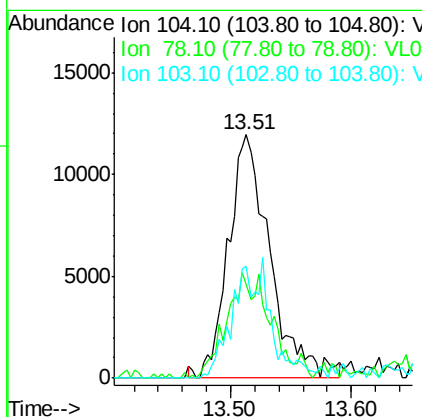
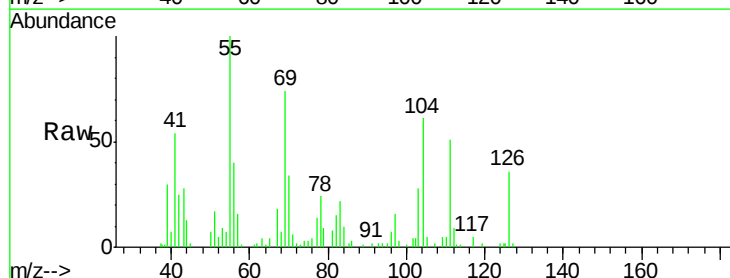
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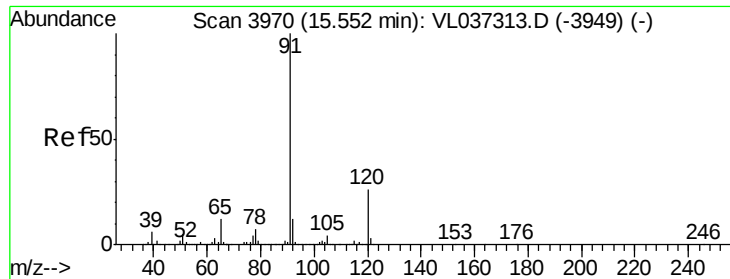
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#61
Styrene
Concen: 0.161 ppbv m
RT: 13.51 min Scan# 3336
Delta R.T. -0.00 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Tgt Ion:104 Resp: 28266
Ion Ratio Lower Upper
104 100
78 46.5 39.3 58.9
103 42.8 40.6 60.8





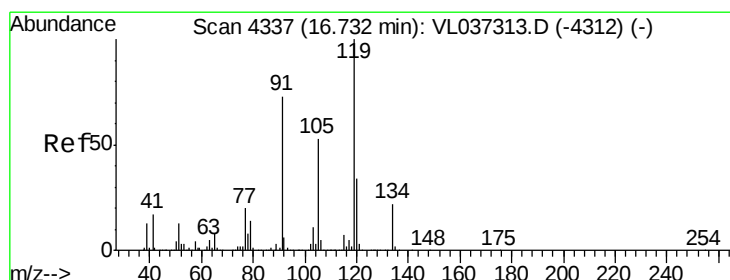
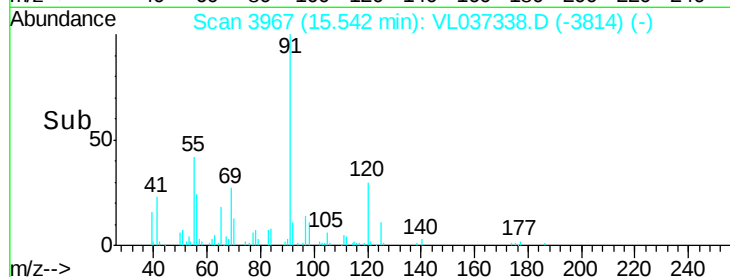
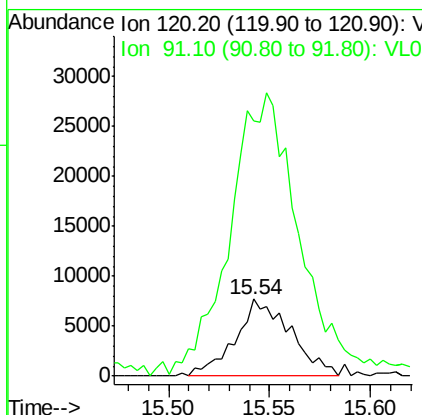
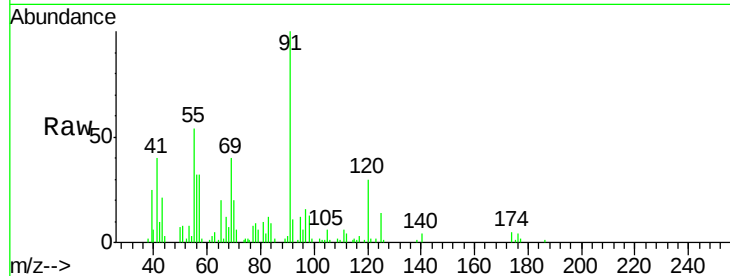
#64
n-propylbenzene
Concen: 0.121 ppbv
RT: 15.54 min Scan# 3967
Delta R.T. -0.01 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion:120 Resp: 14723
Ion Ratio Lower Upper
120 100
91 449.8 361.0 541.4

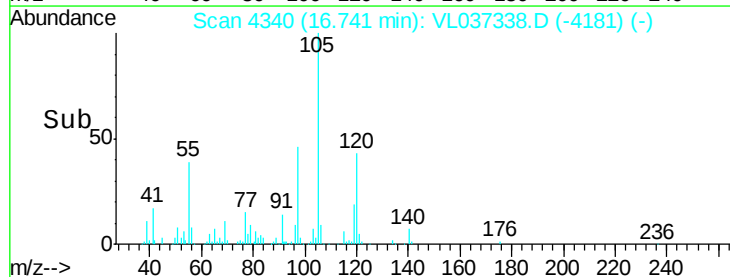
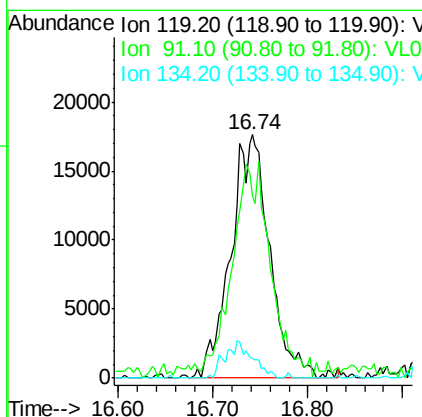
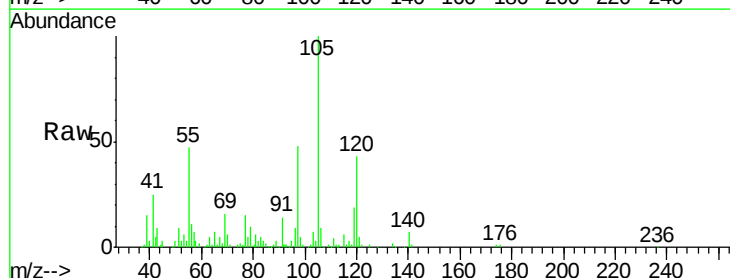
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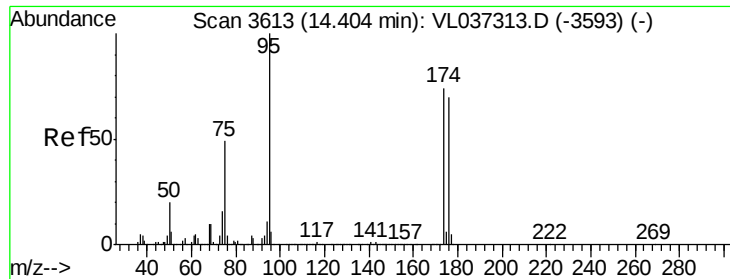
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#65
tert-Butylbenzene
Concen: 0.118 ppbv m
RT: 16.74 min Scan# 4340
Delta R.T. 0.01 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Tgt Ion:119 Resp: 50671
Ion Ratio Lower Upper
119 100
91 0.0 58.6 88.0#
134 10.9 16.5 24.7#





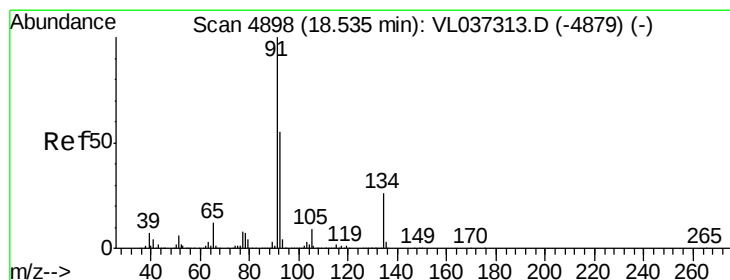
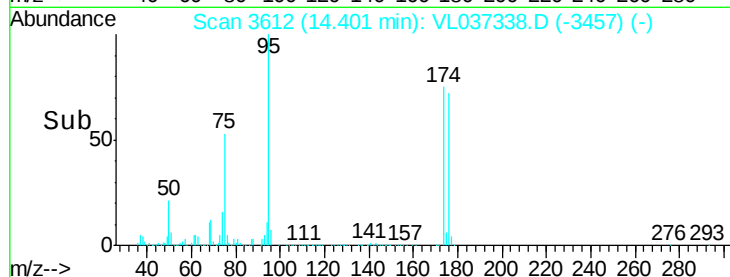
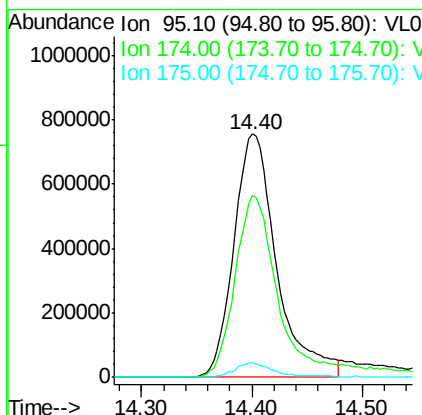
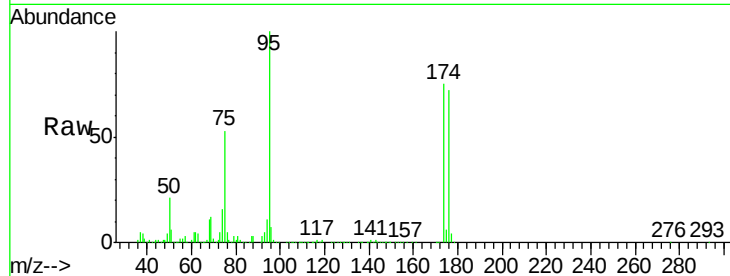
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.459 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.00 min
 Lab File: VL037338.D
 Acq: 5 Aug 2021 11:17

Instrument :
 MSVOA_L
 ClientSampled :
 SV1DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	81.0	66.9	100.3
175	5.8	5.1	7.7

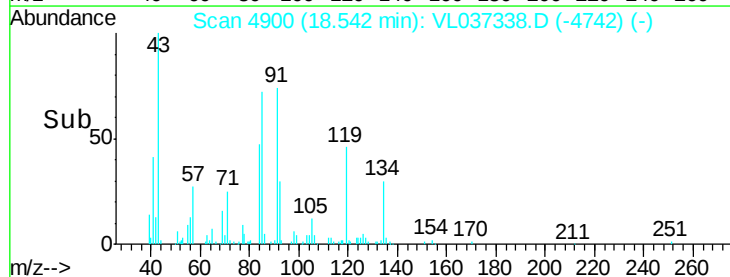
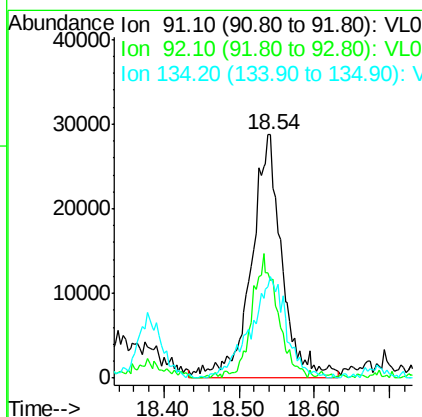
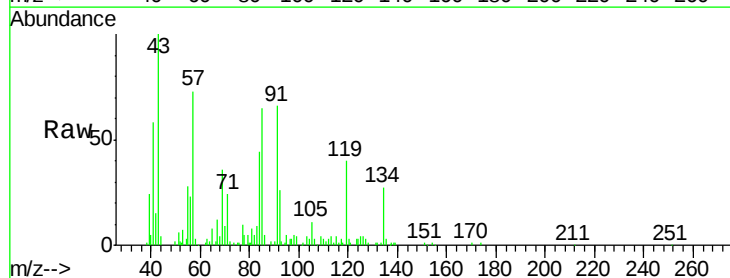
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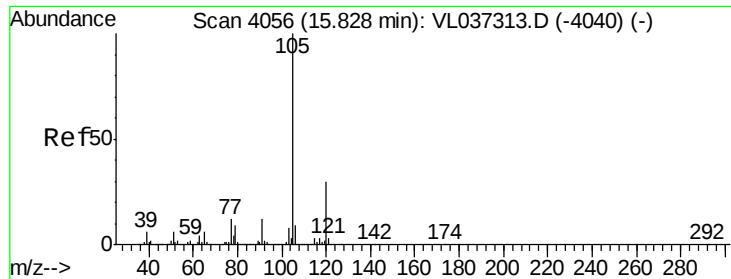
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#70
 n-Butylbenzene
 Concen: 0.183 ppbv m
 RT: 18.54 min Scan# 4900
 Delta R.T. 0.01 min
 Lab File: VL037338.D
 Acq: 5 Aug 2021 11:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	44.1	66.1#
134	48.4	20.6	31.0#





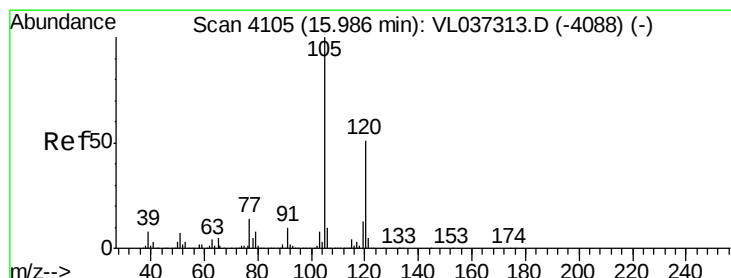
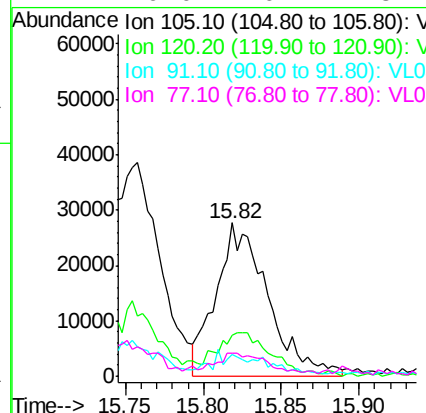
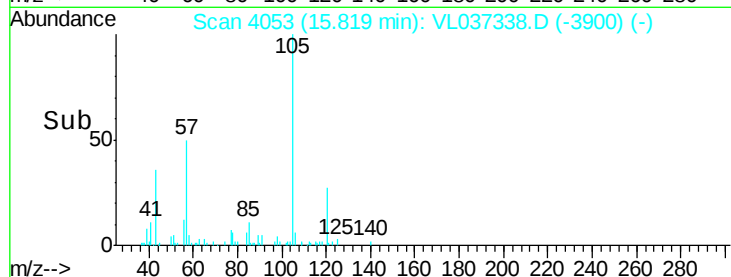
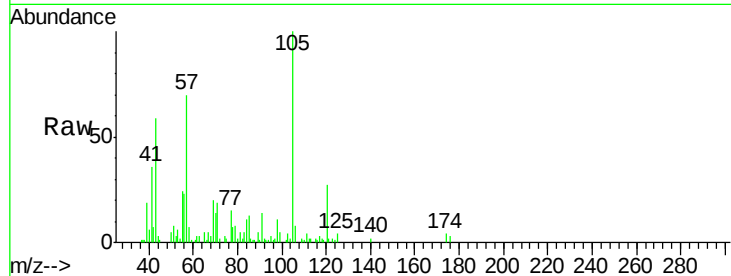
#72
4-Ethyltoluene
Concen: 0.166 ppbv m
RT: 15.82 min Scan# 4053
Delta R.T. -0.01 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Instrument :
MSVOA_L
ClientSampled :
SV1DL

Tot Ion:	105	Resp:	64143
Ion Ratio	Lower	Upper	
105	100		
120	30.7	25.6	38.4
91	0.0	9.4	14.2#
77	0.0	10.2	15.4#

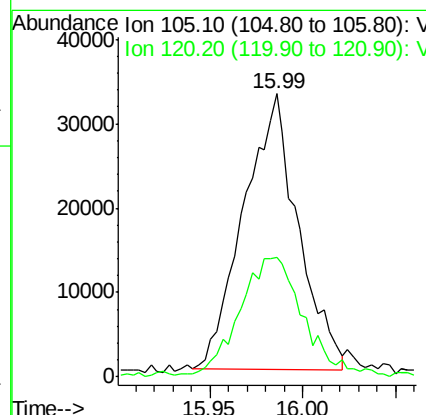
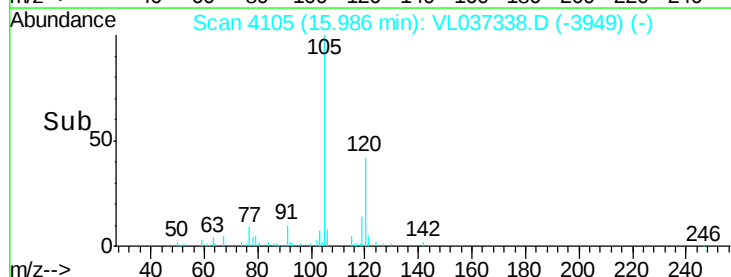
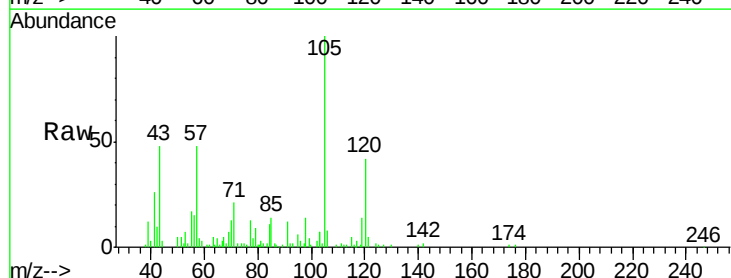
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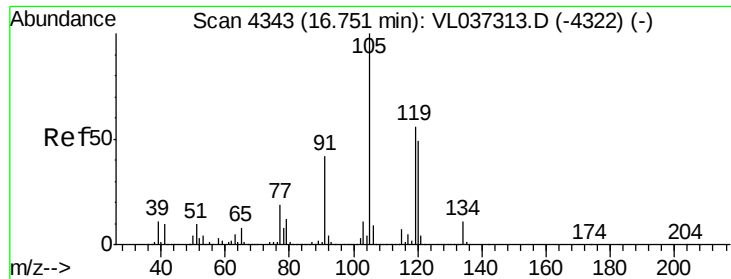
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#73
1,3,5-Trimethylbenzene
Concen: 0.192 ppbv
RT: 15.99 min Scan# 4105
Delta R.T. 0.00 min
Lab File: VL037338.D
Acq: 5 Aug 2021 11:17

Tgt Ion:	105	Resp:	66800
Ion Ratio	Lower	Upper	
105	100		
120	42.4	40.4	60.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.606 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.00 min
 Lab File: VL037338.D
 Acq: 5 Aug 2021 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.1	39.6	59.4
91	15.4	34.5	51.7#
77	14.7	15.3	22.9#

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