

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035760.D
 Acq On : 12 Oct 2020 13:58
 Operator : SY/AP
 Sample : L4347-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1DL

Manual Integrations
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 10/14/2020 2:11:27 PM

Quant Time: Oct 13 00:53:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Sep 23 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1258670	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4885453	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4817110	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	3626498	10.05	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	102119	2.077	ppbv	88
10) Heptane	8.12	43	50291	0.367	ppbv	96
13) Ethanol	3.62	45	11646865	960.612	ppbv	91
15) Acetone	3.83	43	2485880	18.355	ppbv	96
17) tert-Butyl alcohol	4.31	59	206757	1.401	ppbv	99
19) Isopropyl Alcohol	3.99	45	246771	3.350	ppbv #	1
20) Methylene Chloride	4.33	84	311903	3.135	ppbv	96
26) Hexane	5.68	57	213817	1.601	ppbv	96
27) Carbon Disulfide	4.54	76	27581	0.139	ppbv #	93
29) Chloroform	5.74	83	34921	0.129	ppbv	98
30) Cyclohexane	7.12	84	24641m	0.187	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	14194	0.059	ppbv	95
34) 2-Butanone	5.24	43	223457	1.383	ppbv	98
36) Benzene	6.88	78	99224m	0.312	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	45837	0.100	ppbv #	78
51) 2-Hexanone	10.14	43	69202	0.364	ppbv #	99
52) Tetrachloroethene	11.23	164	12496	0.082	ppbv	96
53) Toluene	9.80	91	2846572	7.583	ppbv	99
58) Ethyl Benzene	12.72	91	283581	0.587	ppbv	93
59) m/p-Xylene	12.97	91	769520	1.823	ppbv	99
60) o-Xylene	13.70	91	355651	0.833	ppbv	99
61) Styrene	13.53	104	77023	0.261	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	138096	0.256	ppbv #	70

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

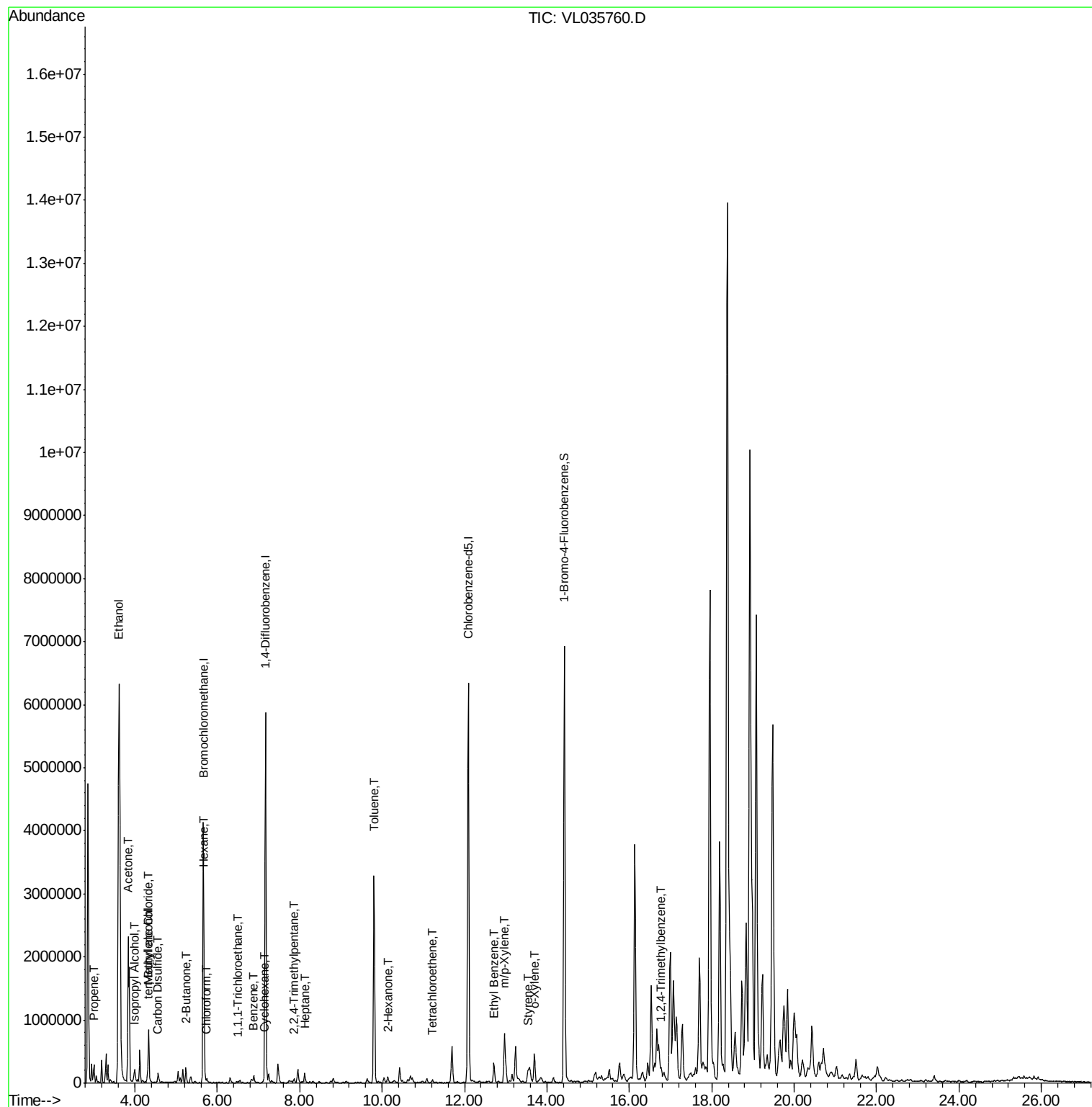
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101220\
Data File : VL035760.D
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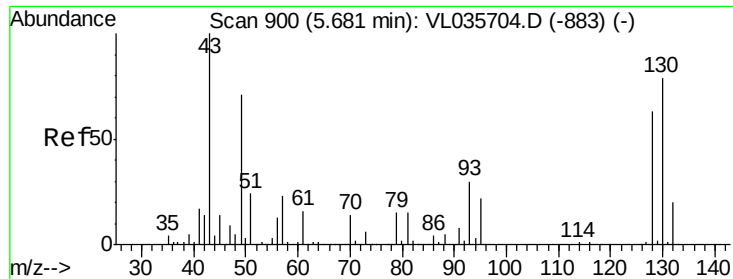
Instrument :
MSVOA_L
ClientSampleId :
1DL

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Quant Time: Oct 13 00:53:00 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL035760.D

Acq: 12 Oct 2020 13:58

Instrument :

MSVOA_L

ClientSampled :

1DL

Tot Ion: 49 Resp: 1258670

Ion Ratio Lower Upper

49 100

128 84.0 43.1 129.4

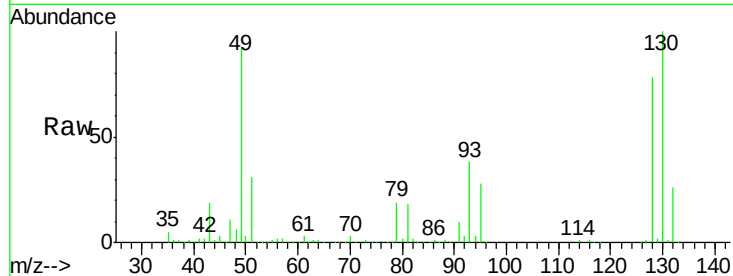
130 107.3 54.9 164.7

Manual Integrations

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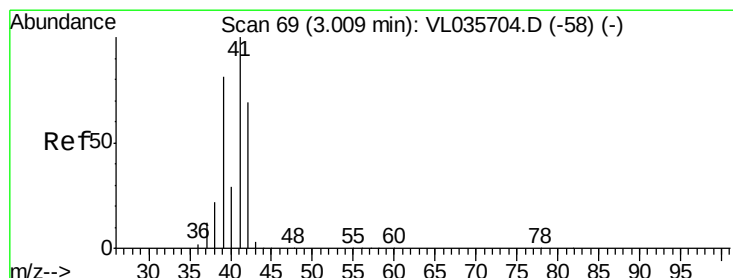
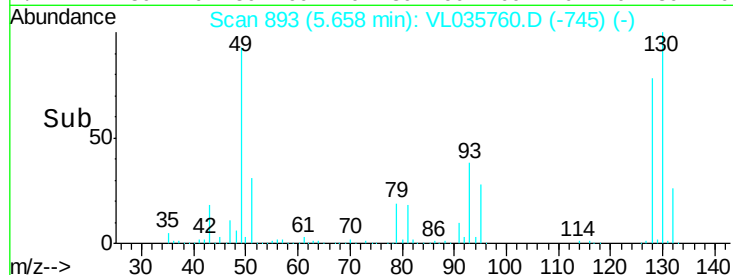
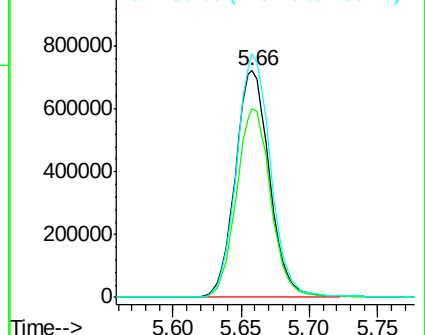
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 2.077 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035760.D

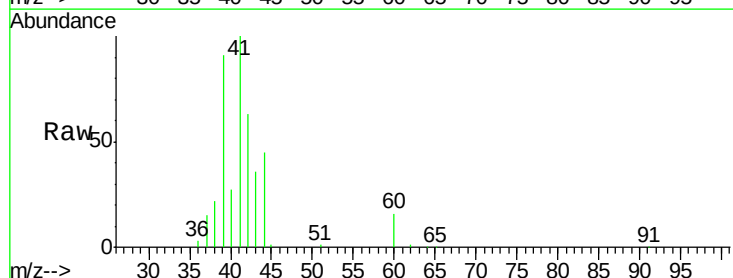
Acq: 12 Oct 2020 13:58

Tgt Ion: 41 Resp: 102119

Ion Ratio Lower Upper

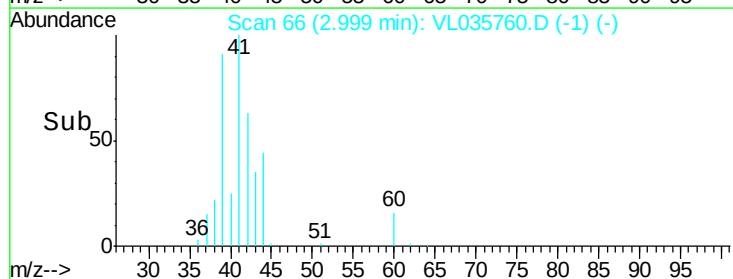
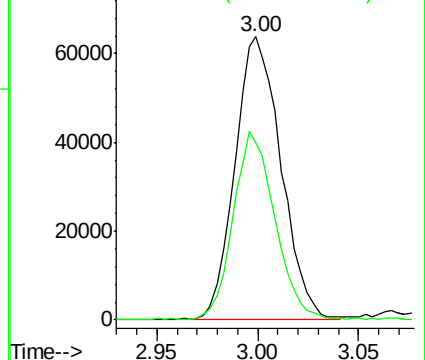
41 100

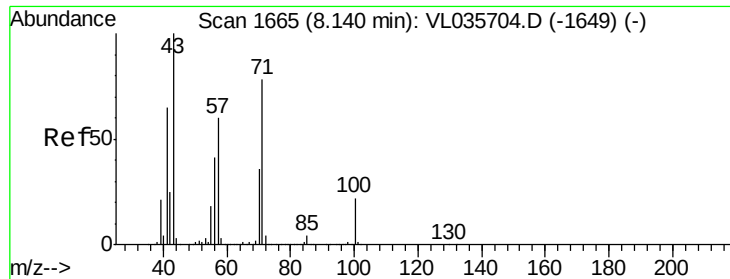
42 60.5 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





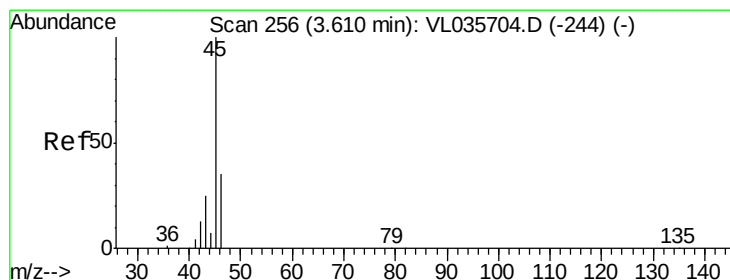
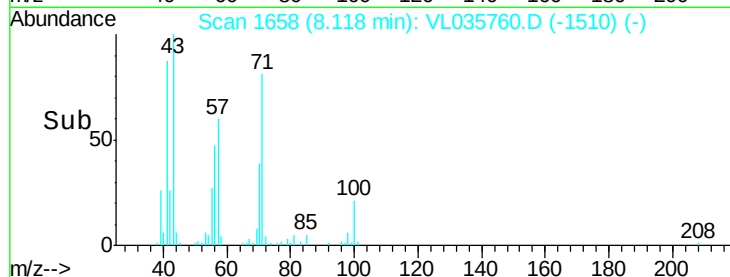
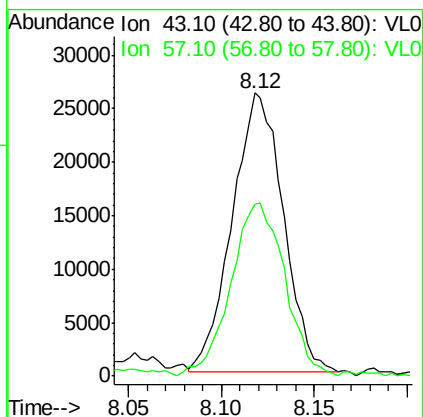
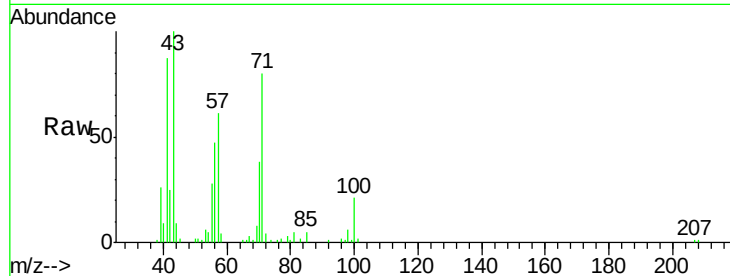
#10
 Heptane
 Concen: 0.367 ppbv
 RT: 8.12 min Scan# 1658
 Delta R.T. -0.02 min
 Lab File: VL035760.D
 Acq: 12 Oct 2020 13:58

Instrument :
 MSVOA_L
 ClientSampleId :
 1DL

Tot Ion: 43 Resp: 50291
 Ion Ratio Lower Upper
 43 100
 57 66.2 50.4 75.6

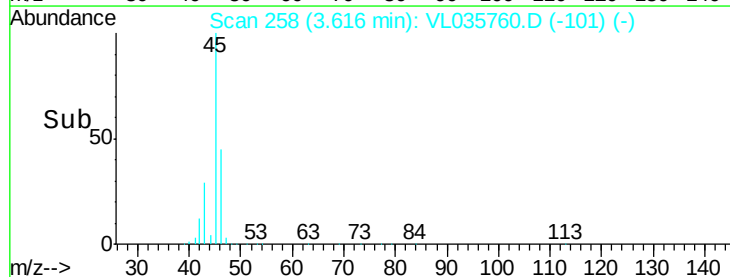
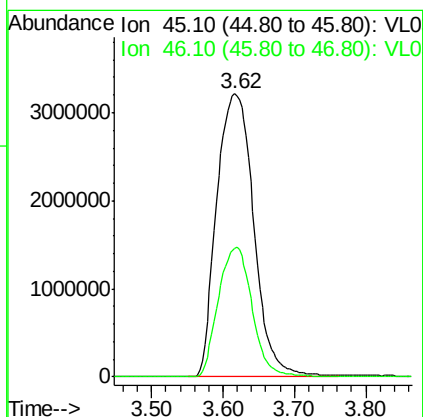
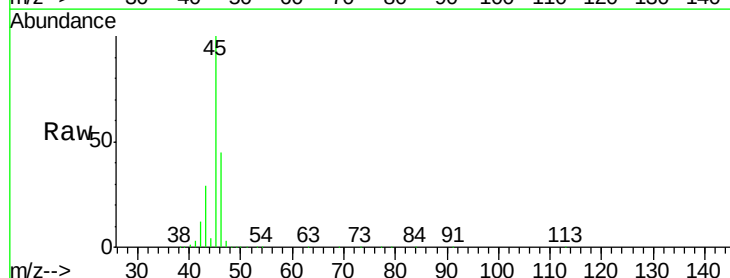
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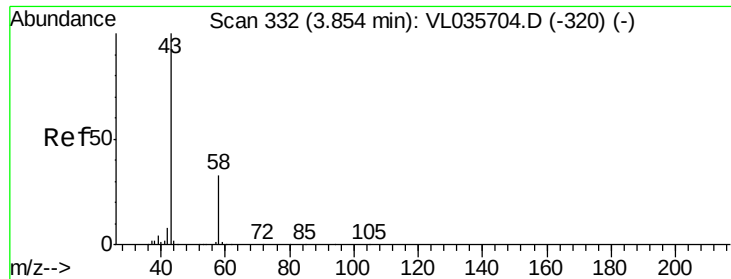
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#13
 Ethanol
 Concen: 960.612 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T. 0.01 min
 Lab File: VL035760.D
 Acq: 12 Oct 2020 13:58

Tgt Ion: 45 Resp: 11646865
 Ion Ratio Lower Upper
 45 100
 46 42.0 14.7 58.7





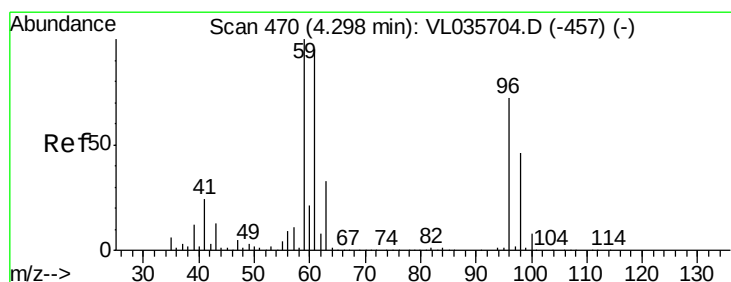
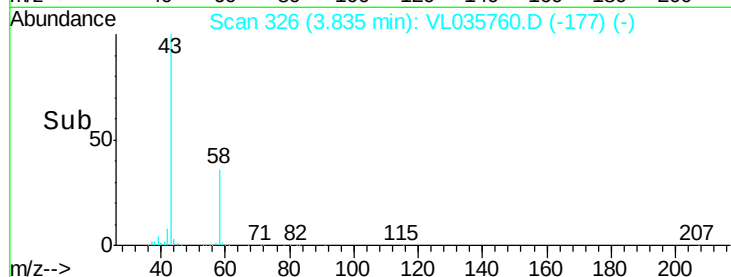
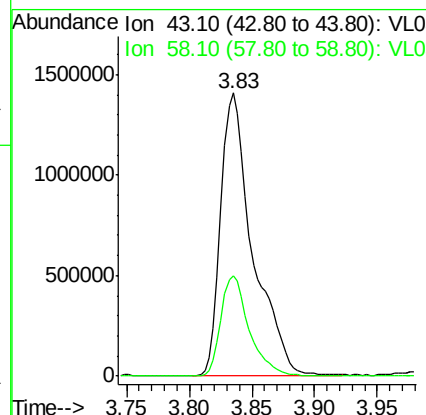
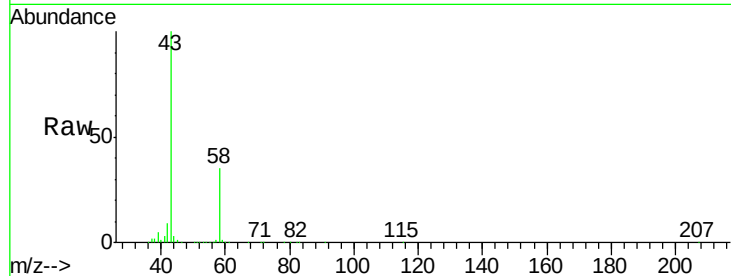
#15
Acetone
Concen: 18.355 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Instrument :
MSVOA_L
ClientSampled :
1DL

Tot Ion: 43 Resp: 2485880
Ion Ratio Lower Upper
43 100
58 31.7 27.3 40.9

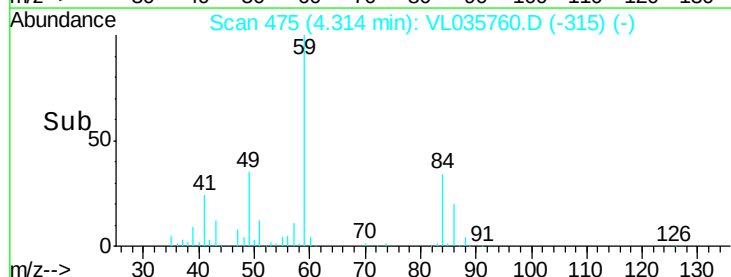
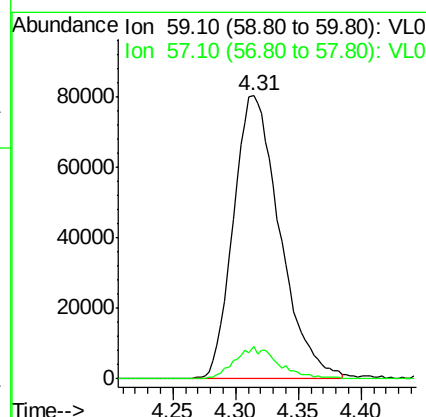
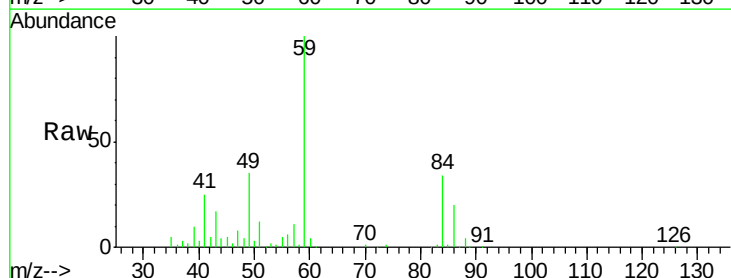
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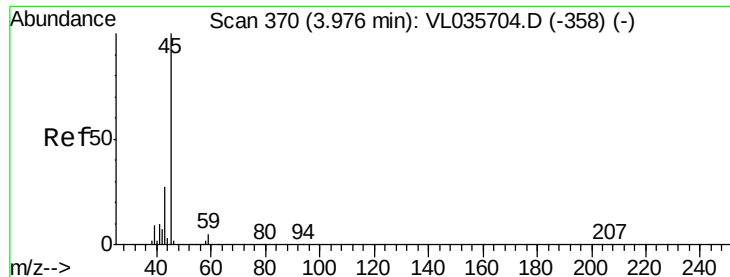
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#17
tert-Butyl alcohol
Concen: 1.401 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Tgt Ion: 59 Resp: 206757
Ion Ratio Lower Upper
59 100
57 10.8 8.5 12.7





#19

Isopropyl Alcohol

Concen: 3.350 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.01 min

Lab File: VL035760.D

Acq: 12 Oct 2020 13:58

Instrument :

MSVOA_L

ClientSampled :

1DL

Tot Ion: 45 Resp: 246771

Ion Ratio Lower Upper

45 100

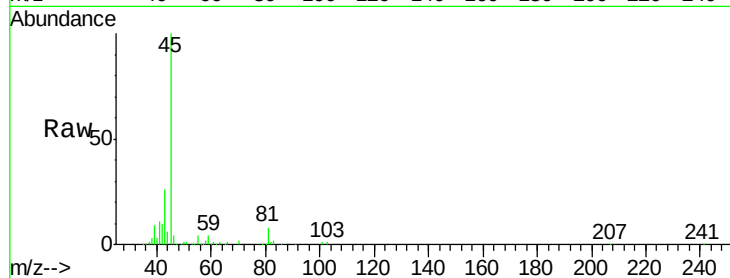
58 319.0 2.8 4.2#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

120000

100000

80000

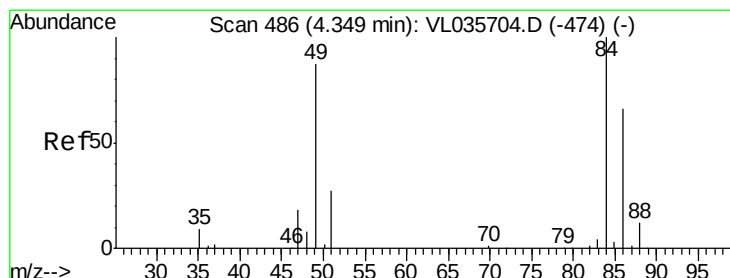
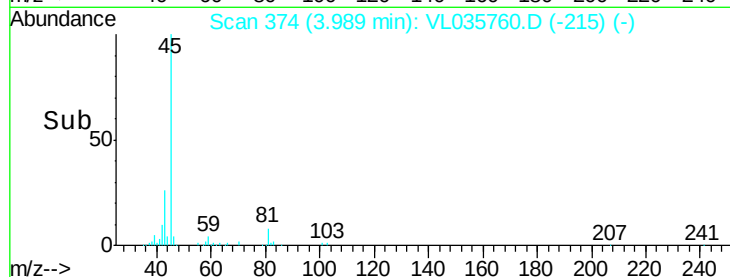
60000

40000

20000

0

Time--> 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 3.135 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.02 min

Lab File: VL035760.D

Acq: 12 Oct 2020 13:58

Tgt Ion: 84 Resp: 311903

Ion Ratio Lower Upper

84 100

49 92.0 69.8 104.6

51 29.5 21.8 32.8

86 66.8 52.6 78.8

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

300000

250000

200000

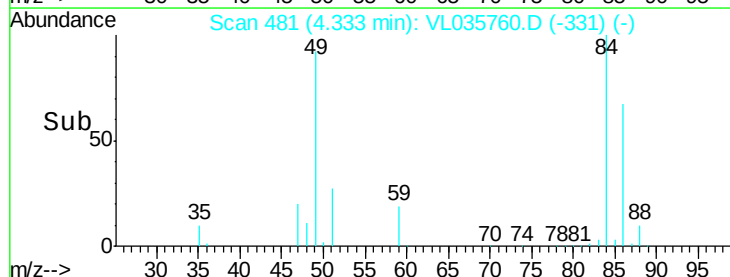
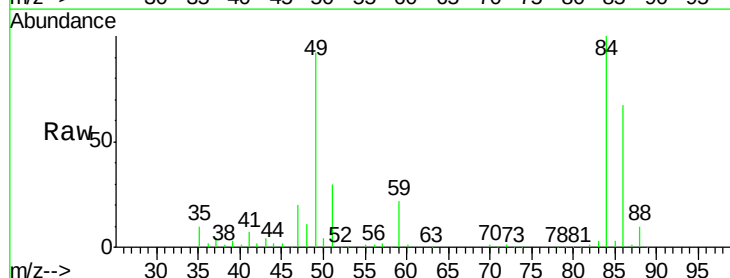
150000

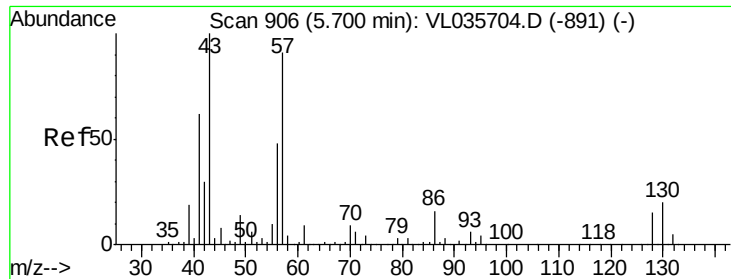
100000

50000

0

Time--> 4.30 4.35 4.40





#26

Hexane

Concen: 1.601 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.02 min

Lab File: VL035760.D

Acq: 12 Oct 2020 13:58

Instrument :

MSVOA_L

ClientSampled :

1DL

Tot Ion: 57 Resp: 213817
Ion Ratio Lower Upper

57 100

41 71.6 57.9 86.9

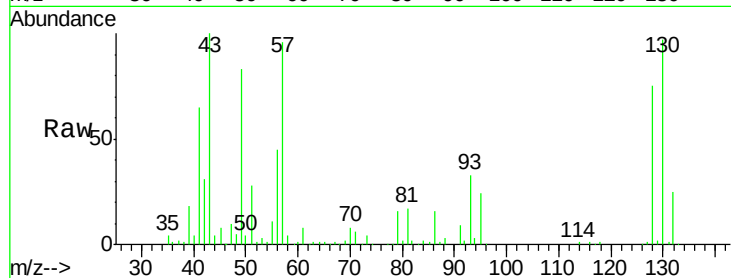
43 189.2 143.8 215.6

56 53.8 43.0 64.6

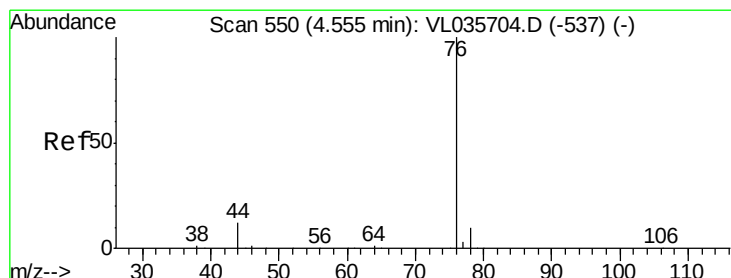
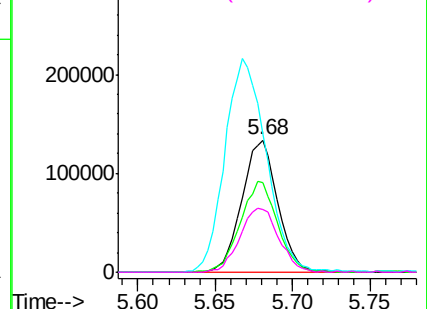
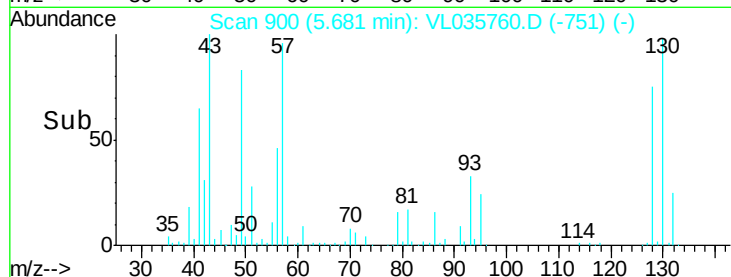
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Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.139 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.02 min

Lab File: VL035760.D

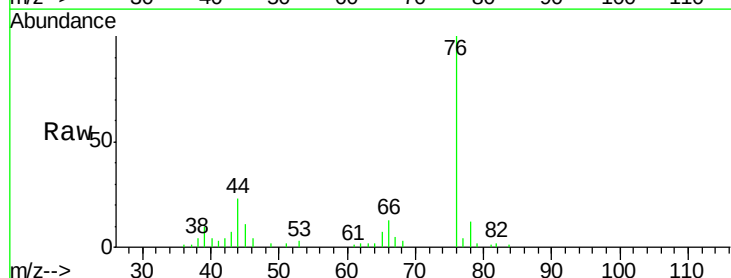
Acq: 12 Oct 2020 13:58

Tgt Ion: 76 Resp: 27581
Ion Ratio Lower Upper

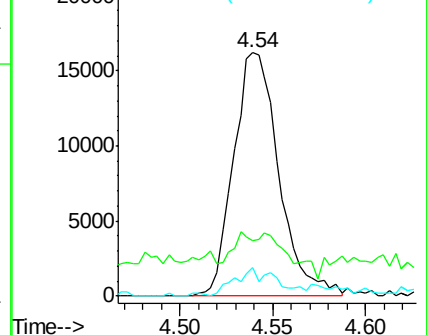
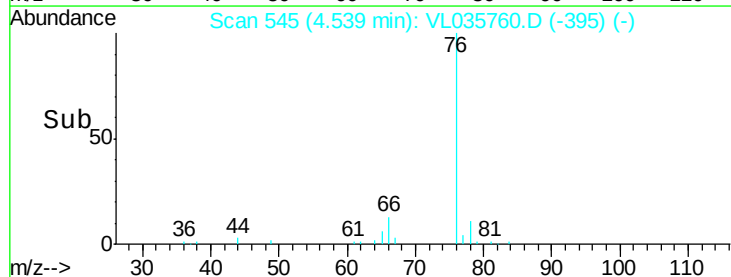
76 100

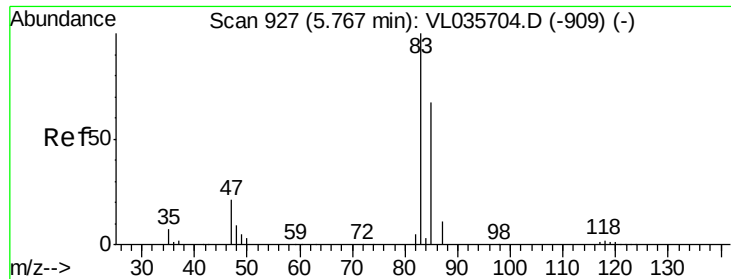
44 11.8 9.7 14.5

78 15.5 7.8 11.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0





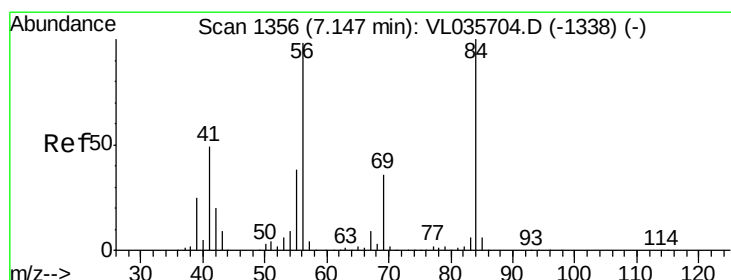
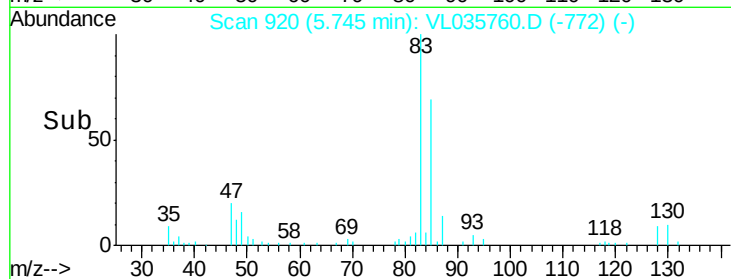
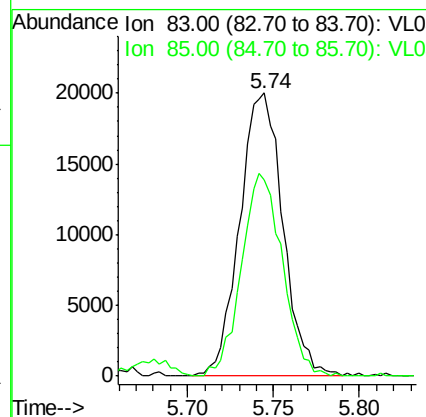
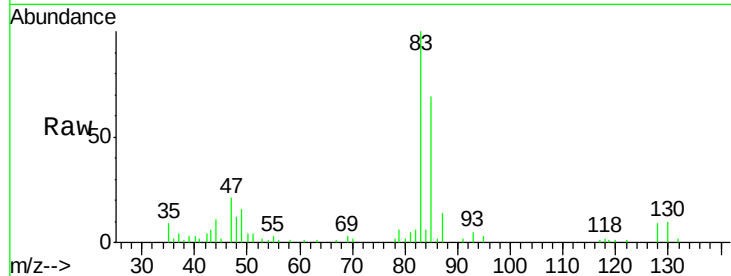
#29
Chloroform
Concen: 0.129 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Instrument :
MSVOA_L
ClientSampled :
1DL

Tot Ion: 83 Resp: 34921
Ion Ratio Lower Upper
83 100
85 69.2 54.0 81.0

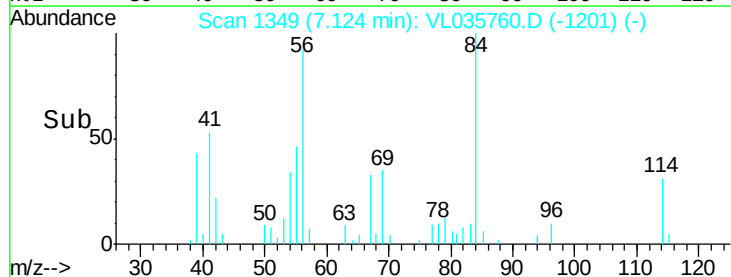
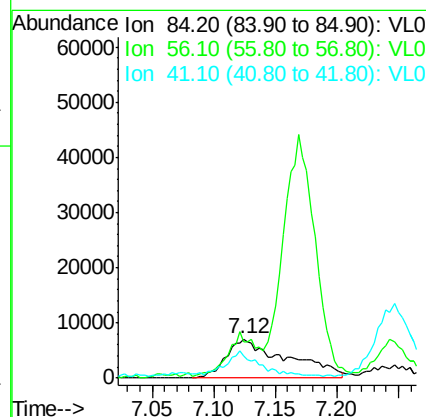
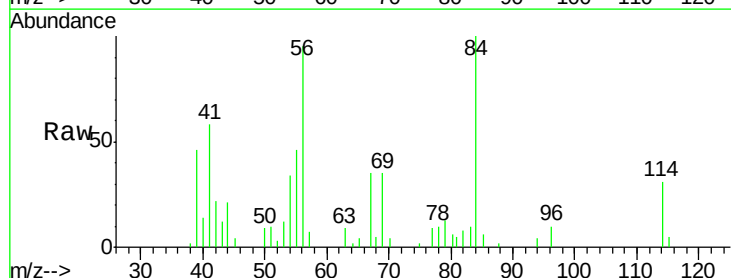
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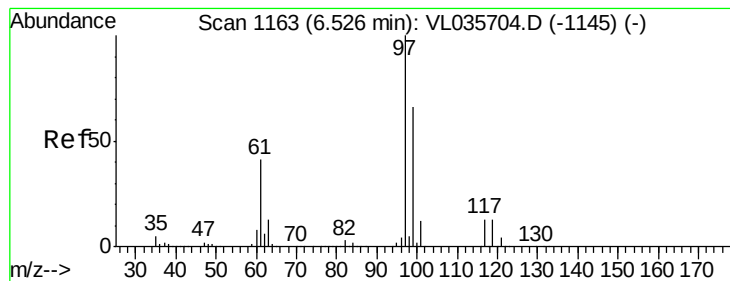
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#30
Cyclohexane
Concen: 0.187 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Tgt Ion: 84 Resp: 24641
Ion Ratio Lower Upper
84 100
56 0.0 84.6 127.0#
41 42.6 41.1 61.7





#32

1,1,1-Trichloroethane

Concen: 0.059 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.02 min

Lab File: VL035760.D

Acq: 12 Oct 2020 13:58

Instrument :

MSVOA_L

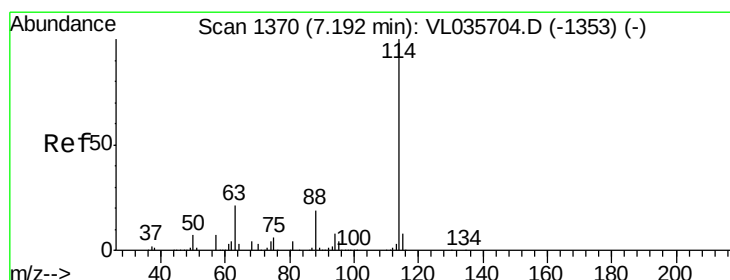
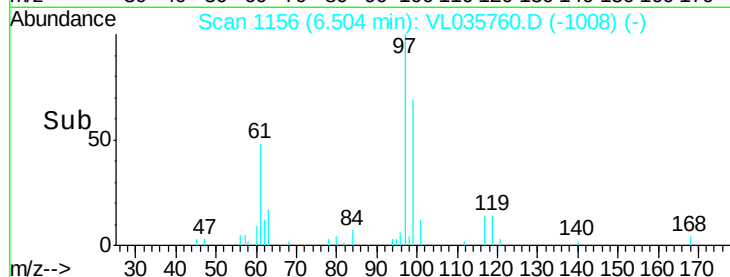
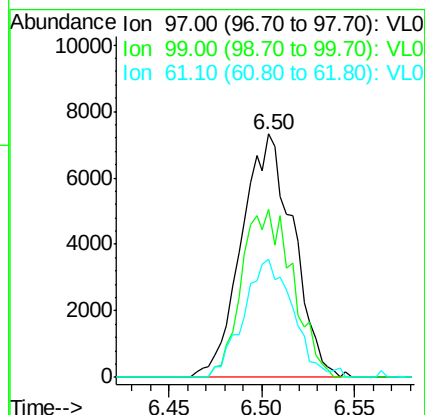
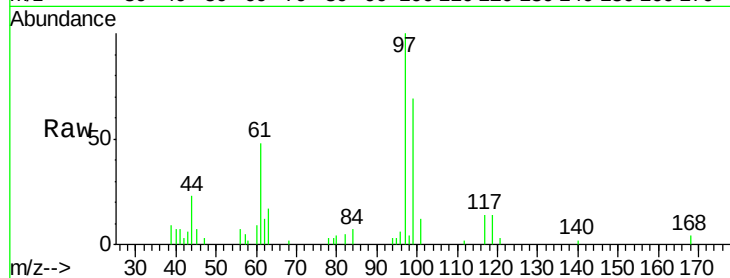
ClientSampled :

1DL

Tot Ion:	97	Resp:	14194
Ion	Ratio	Lower	Upper
97	100		
99	67.9	52.7	79.1
61	46.1	32.7	49.1

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

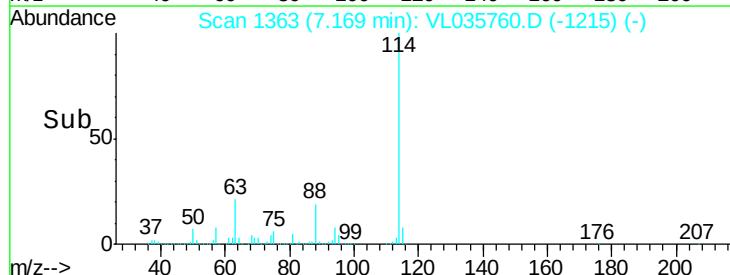
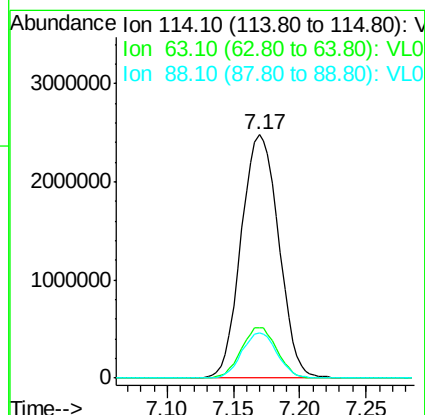
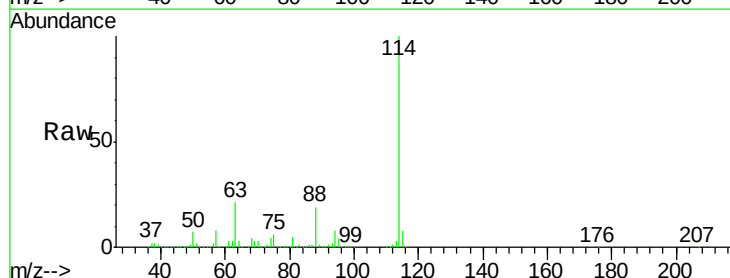
RT: 7.17 min Scan# 1363

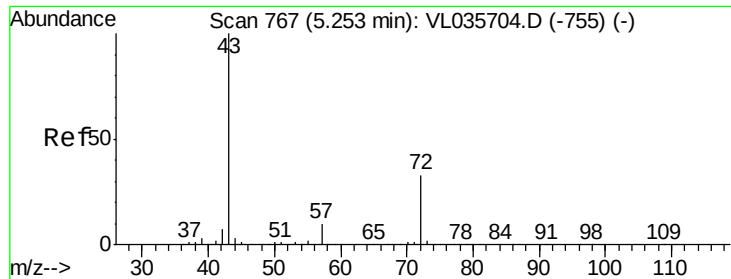
Delta R.T. -0.02 min

Lab File: VL035760.D

Acq: 12 Oct 2020 13:58

Tgt Ion:	114	Resp:	4885453
Ion	Ratio	Lower	Upper
114	100		
63	19.8	16.1	24.1
88	17.6	14.1	21.1





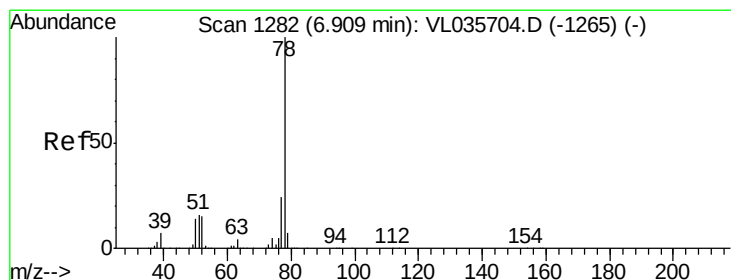
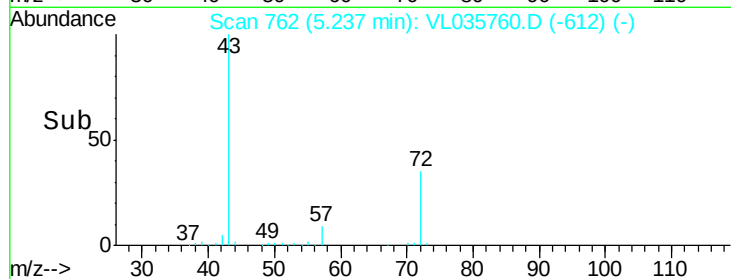
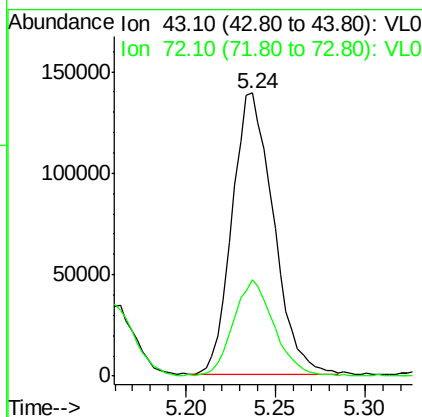
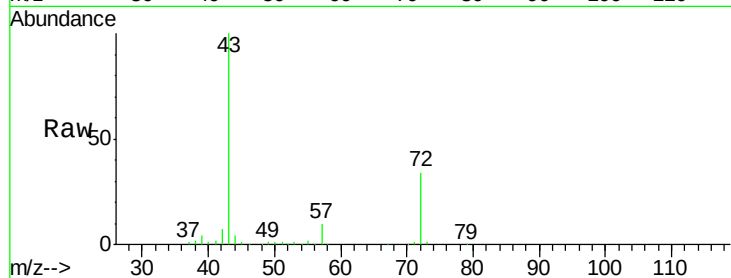
#34
2-Butanone
Concen: 1.383 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Instrument :
MSVOA_L
ClientSampled :
1DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	33.9	26.1	39.1

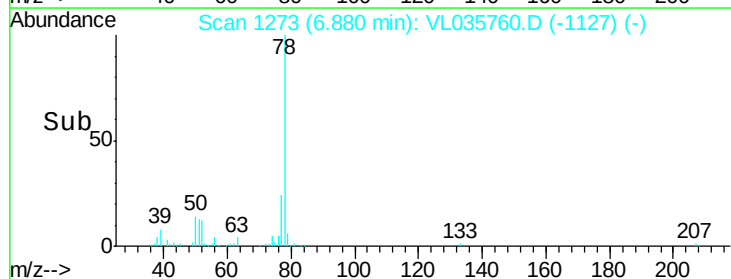
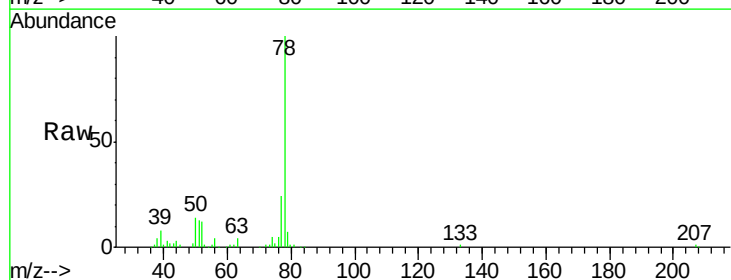
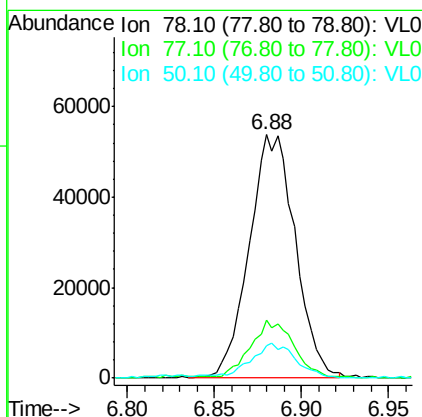
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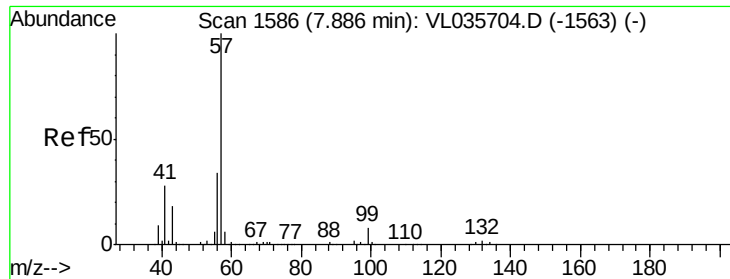
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#36
Benzene
Concen: 0.312 ppbv m
RT: 6.88 min Scan# 1273
Delta R.T. -0.03 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9
50	13.6	11.6	17.4





#44

2,2,4-Trimethylpentane

Concen: 0.100 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.02 min

Lab File: VL035760.D

Acq: 12 Oct 2020 13:58

Instrument :

MSVOA_L

ClientSampled :

1DL

Tot Ion: 57 Resp: 45837

Ion Ratio Lower Upper

57 100

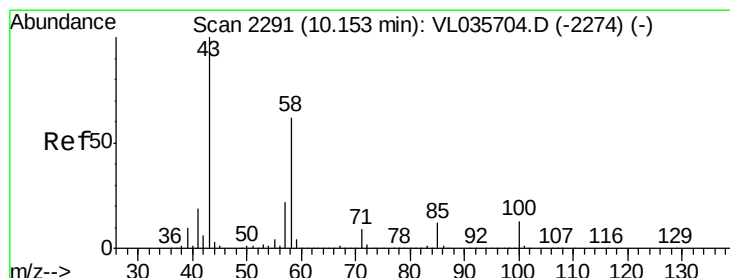
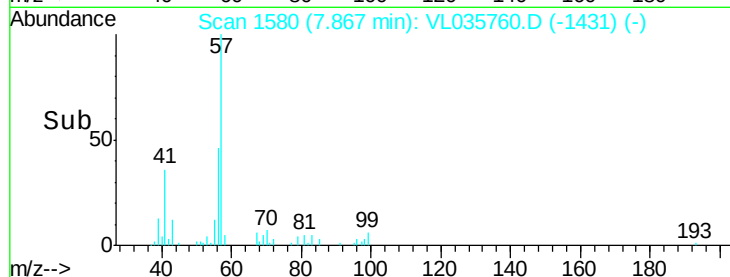
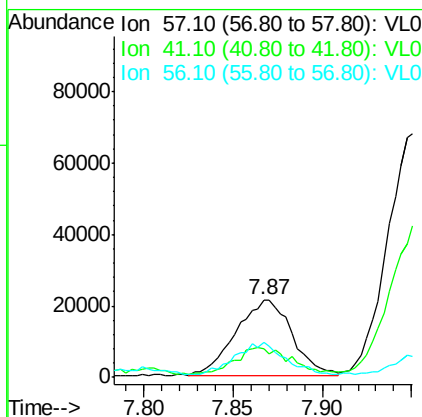
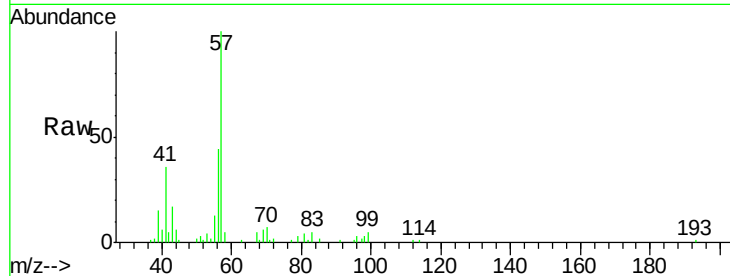
41 43.7 21.2 31.8#

56 39.3 25.8 38.8#

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#51

2-Hexanone

Concen: 0.364 ppbv

RT: 10.14 min Scan# 2287

Delta R.T. -0.01 min

Lab File: VL035760.D

Acq: 12 Oct 2020 13:58

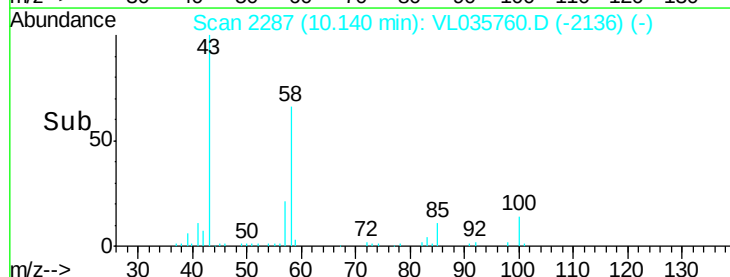
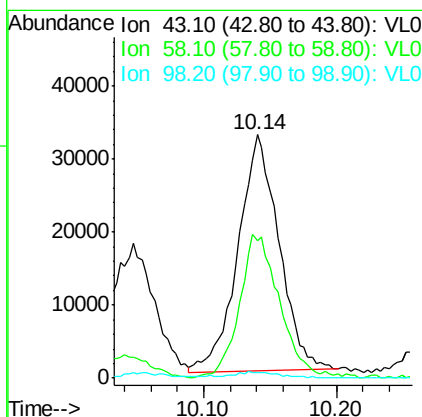
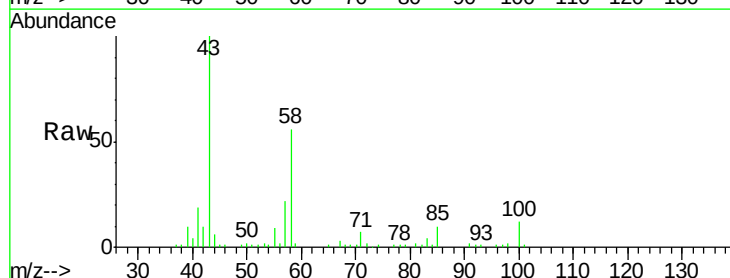
Tgt Ion: 43 Resp: 69202

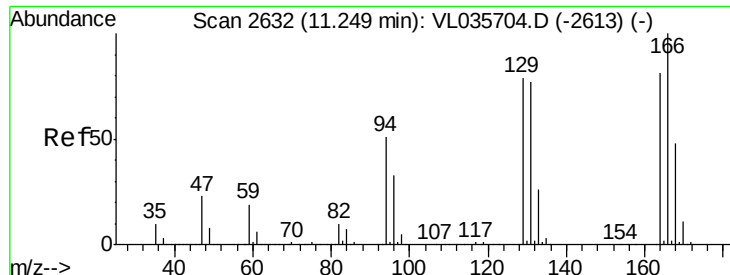
Ion Ratio Lower Upper

43 100

58 60.3 48.7 73.1

98 3.3 0.7 1.1#





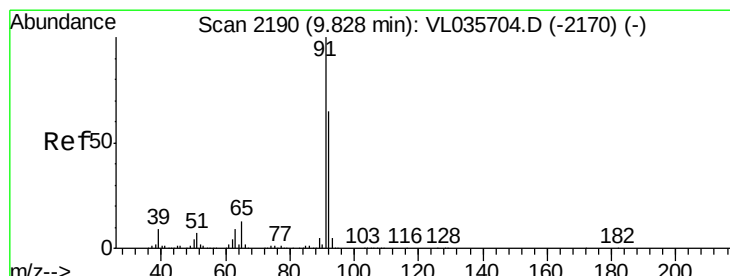
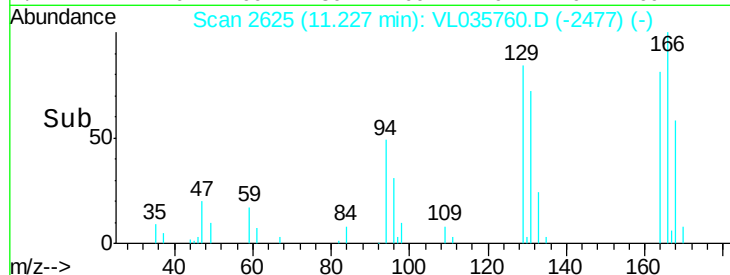
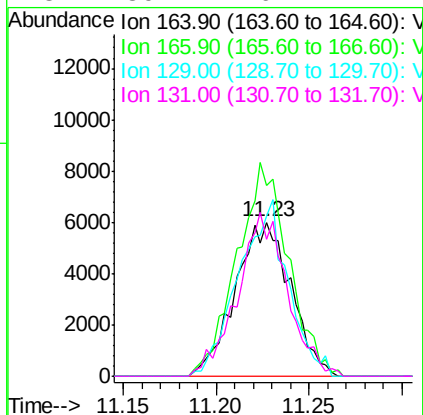
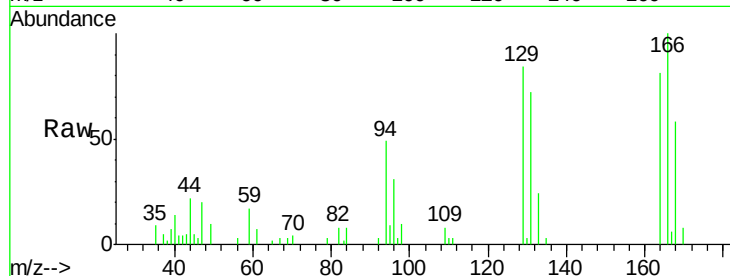
#52
Tetrachloroethene
Concen: 0.082 ppbv
RT: 11.23 min Scan# 2625
Delta R.T. -0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Instrument :
MSVOA_L
ClientSampled :
1DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	124.0	98.7	148.1
129	104.3	78.4	117.6
131	89.2	76.2	114.2

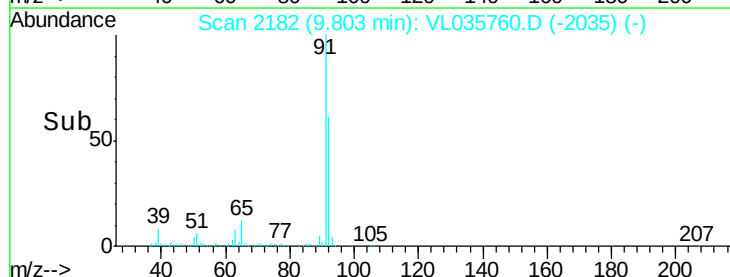
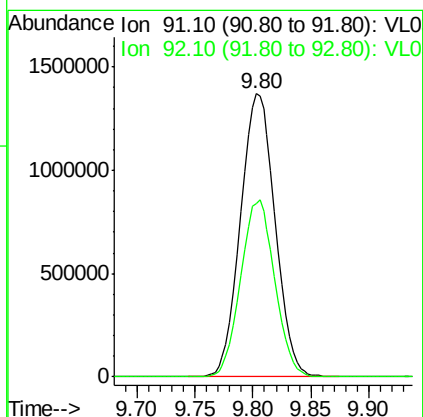
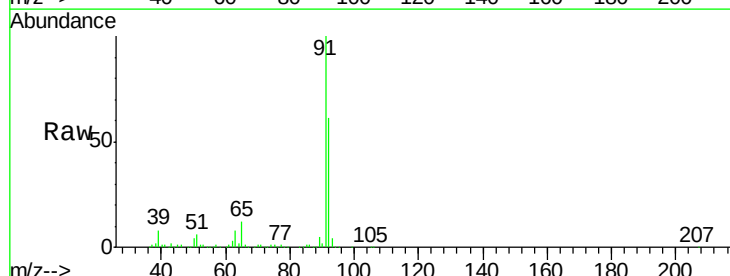
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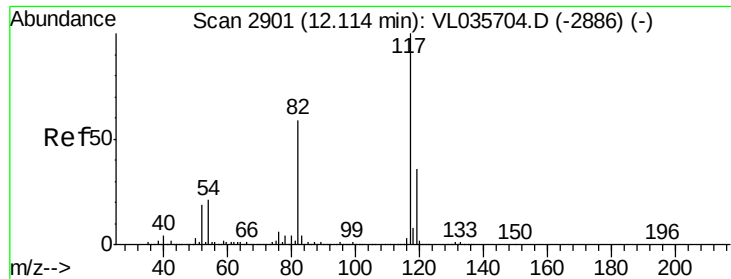
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#53
Toluene
Concen: 7.583 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. -0.03 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.7	50.0	75.0





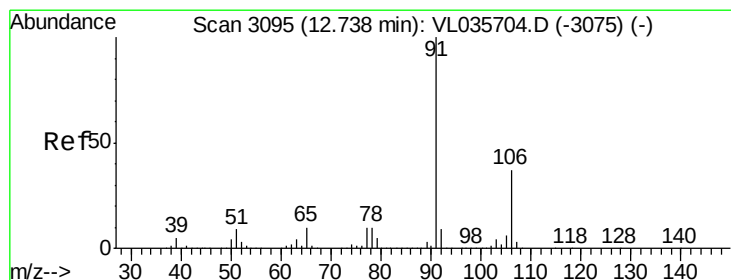
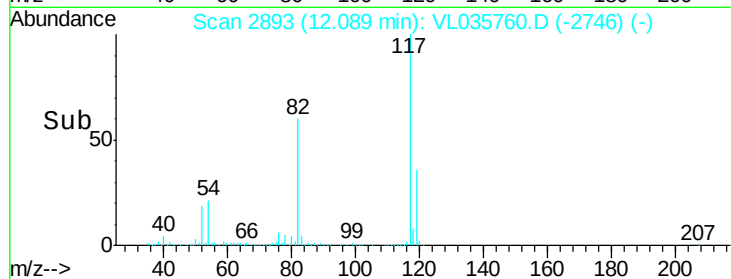
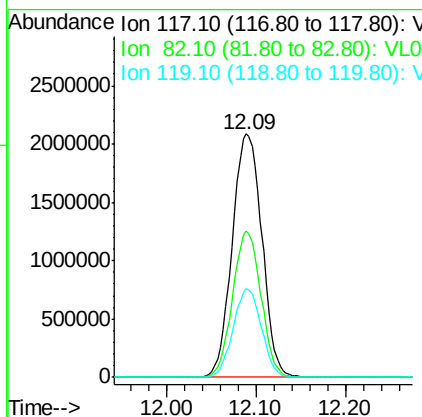
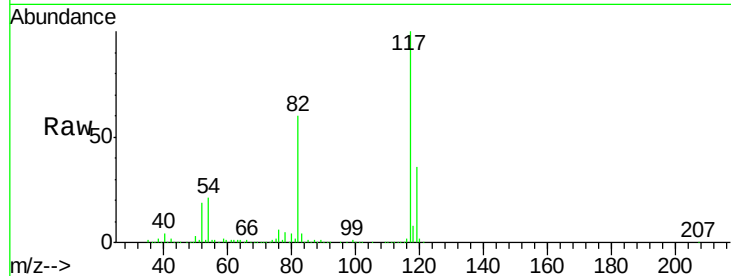
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.03 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Instrument :
MSVOA_L
ClientSampleId :
1DL

Tot Ion:117 Resp: 4817110
Ion Ratio Lower Upper
117 100
82 57.4 46.1 69.1
119 34.8 28.0 42.0

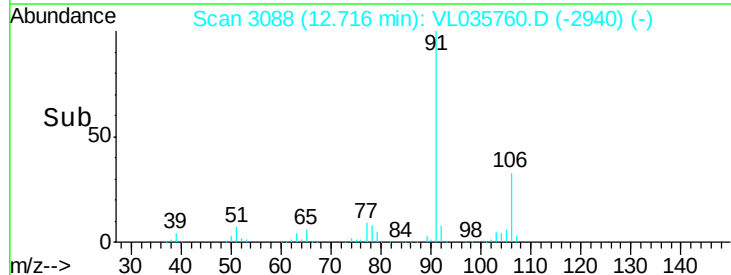
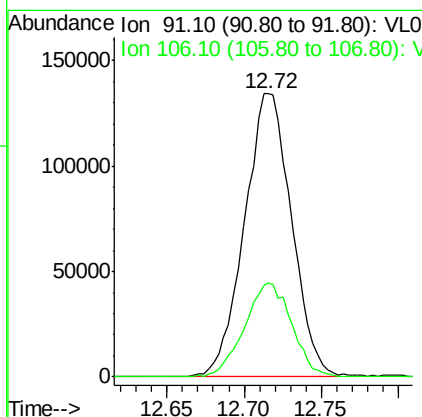
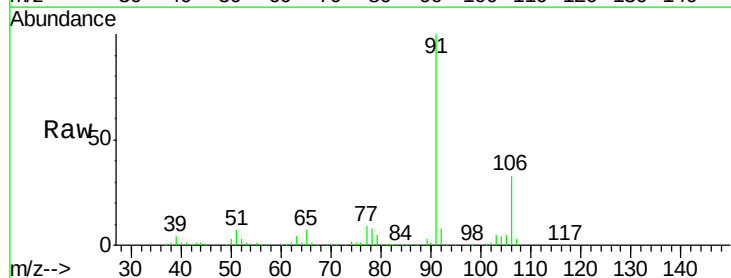
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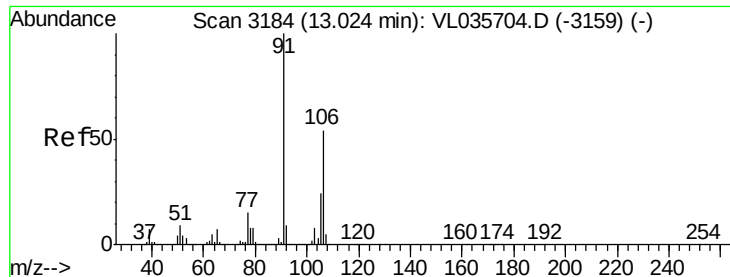
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#58
Ethyl Benzene
Concen: 0.587 ppbv
RT: 12.72 min Scan# 3088
Delta R.T. -0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Tgt Ion: 91 Resp: 283581
Ion Ratio Lower Upper
91 100
106 33.2 29.7 44.5





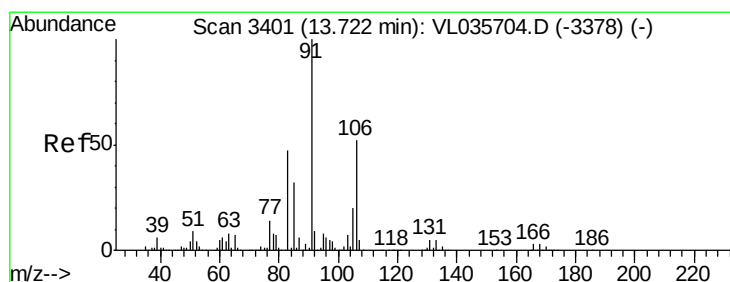
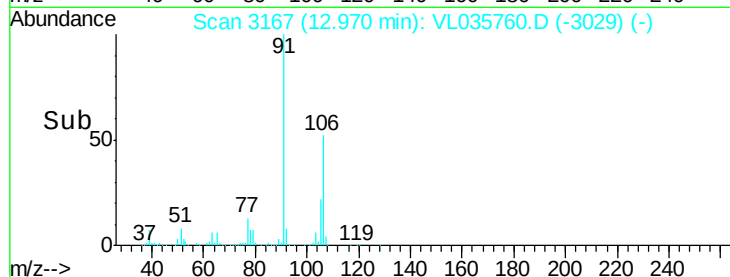
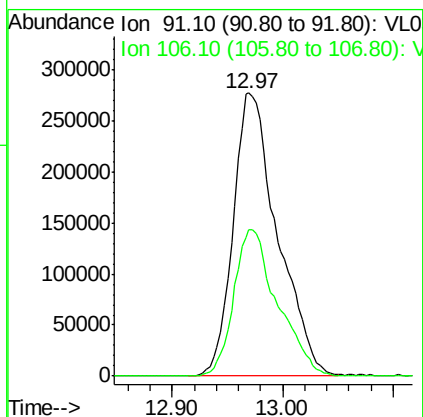
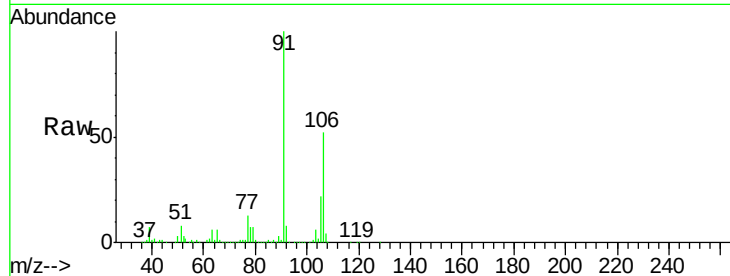
#59
m/p-Xylene
Concen: 1.823 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.05 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Instrument :
MSVOA_L
ClientSampled :
1DL

Tot Ion: 91 Resp: 769520
Ion Ratio Lower Upper
91 100
106 51.3 41.4 62.0

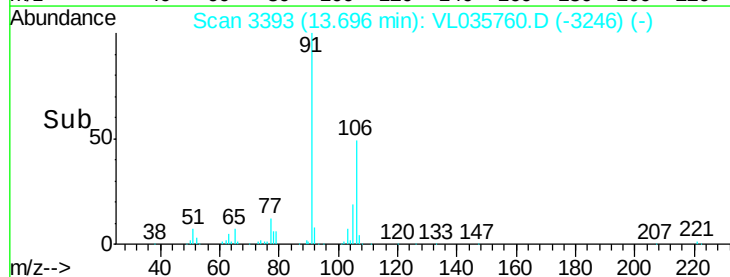
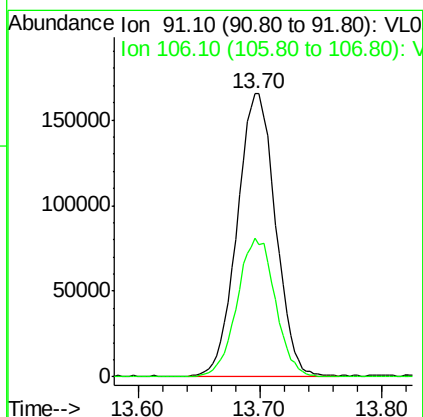
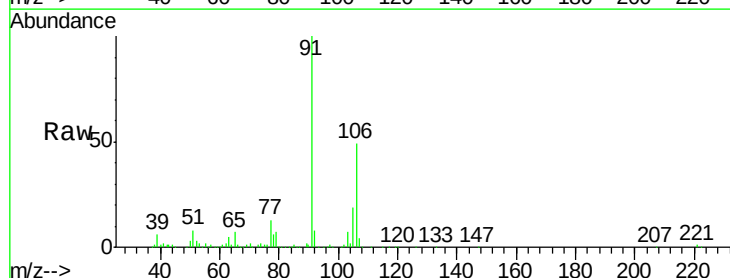
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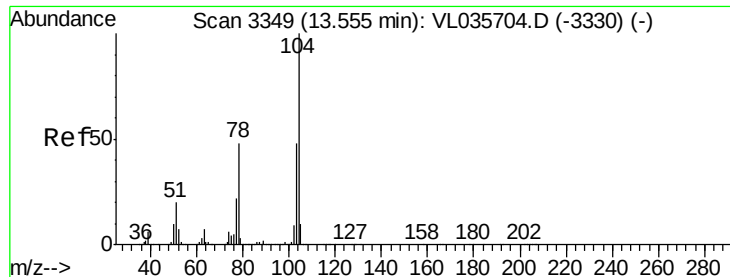
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#60
o-Xylene
Concen: 0.833 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.03 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Tgt Ion: 91 Resp: 355651
Ion Ratio Lower Upper
91 100
106 49.0 25.0 75.0





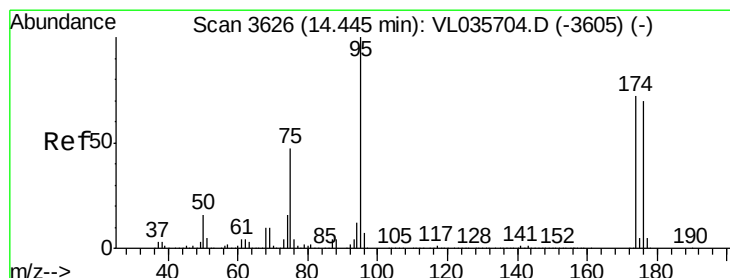
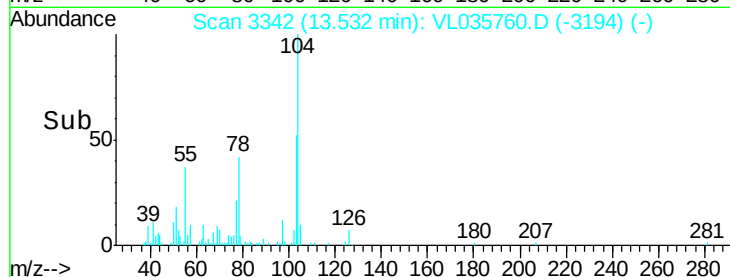
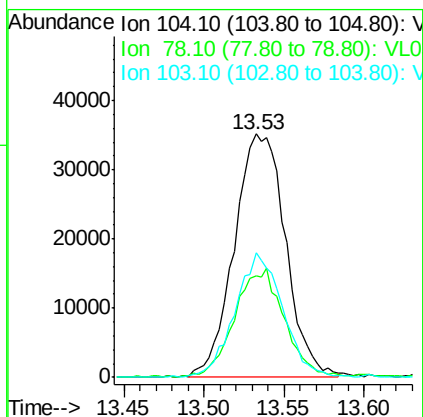
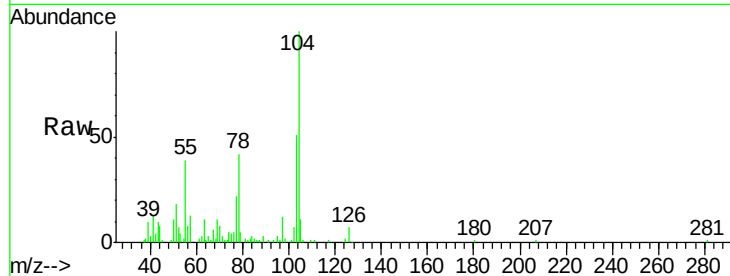
#61
Stvrene
Concen: 0.261 ppbv
RT: 13.53 min Scan# 3342
Delta R.T. -0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Instrument :
MSVOA_L
ClientSampled :
1DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	44.4	37.2	55.8
103	47.9	38.2	57.2

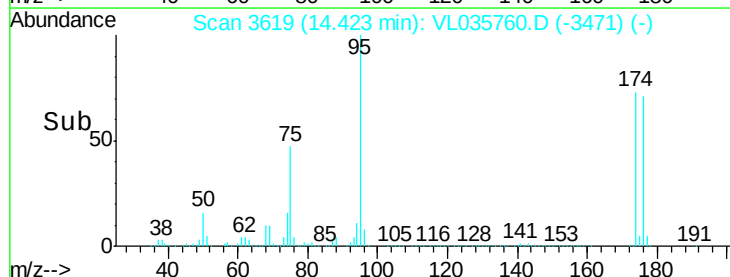
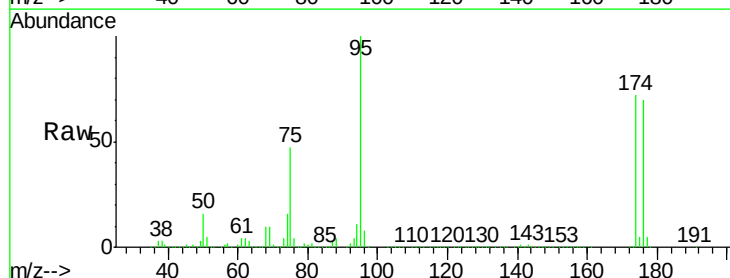
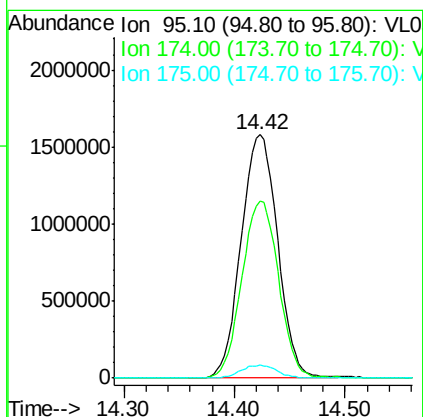
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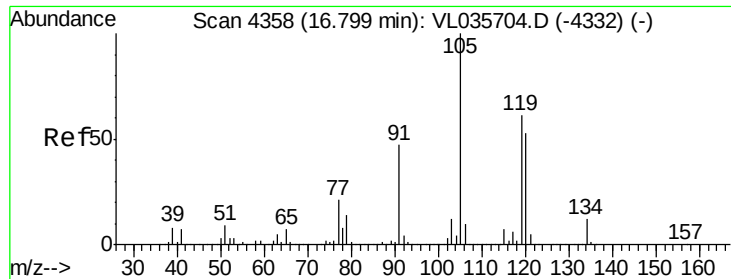
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.047 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.02 min
Lab File: VL035760.D
Acq: 12 Oct 2020 13:58

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.0	59.6	89.4
175	5.3	4.2	6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.256 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.03 min
 Lab File: VL035760.D
 Acq: 12 Oct 2020 13:58

Instrument :
 MSVOA_L
 ClientSampleId :
 1DL

Tot Ion:	105	Resp:	138096
Ion Ratio		Lower	Upper
105	100		
120	44.9	42.5	63.7
91	9.7	37.7	56.5#
77	12.9	16.7	25.1#

Manual Integrations
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 10/14/2020 2:11:27 PM

