

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035603.D
 Acq On : 14 Sep 2020 17:52
 Operator : SY/AP
 Sample : L3983-02 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-7

Manual Integrations
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MMDadoda
 9/17/2020 5:40:14 PM

Quant Time: Sep 15 16:47:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1072168	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4508968	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4563458	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3486006	10.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	43003	0.941	ppbv	94
10) Heptane	8.12	43	46469	0.378	ppbv	99
13) Ethanol	3.60	45	37557	3.313	ppbv	96
15) Acetone	3.84	43	6365710	53.833	ppbv #	82
17) tert-Butyl alcohol	4.29	59	91334	0.635	ppbv	98
19) Isopropyl Alcohol	3.96	45	35357	0.501	ppbv #	93
20) Methylene Chloride	4.34	84	72417	0.822	ppbv	97
29) Chloroform	5.75	83	29875	0.124	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	31454	0.259	ppbv	98
34) 2-Butanone	5.24	43	777333	5.809	ppbv	99
36) Benzene	6.89	78	81492	0.279	ppbv #	92
38) Trichloroethene	7.83	130	796265	4.697	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	118186	0.610	ppbv	97
51) 2-Hexanone	10.14	43	253053	1.592	ppbv #	98
52) Tetrachloroethene	11.23	164	11273949m	66.119	ppbv	
53) Toluene	9.81	91	834806	2.274	ppbv	97
58) Ethyl Benzene	12.72	91	255427	0.543	ppbv	93
59) m/p-Xylene	12.98	91	825697	2.100	ppbv	97
60) o-Xylene	13.70	91	288628	0.729	ppbv	96
64) n-propylbenzene	15.57	120	29981	0.154	ppbv #	55
72) 4-Ethyltoluene	15.85	105	148795	0.296	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.01	105	81687	0.175	ppbv	87
74) 1,2,4-Trimethylbenzene	16.78	105	348848	0.682	ppbv #	70

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

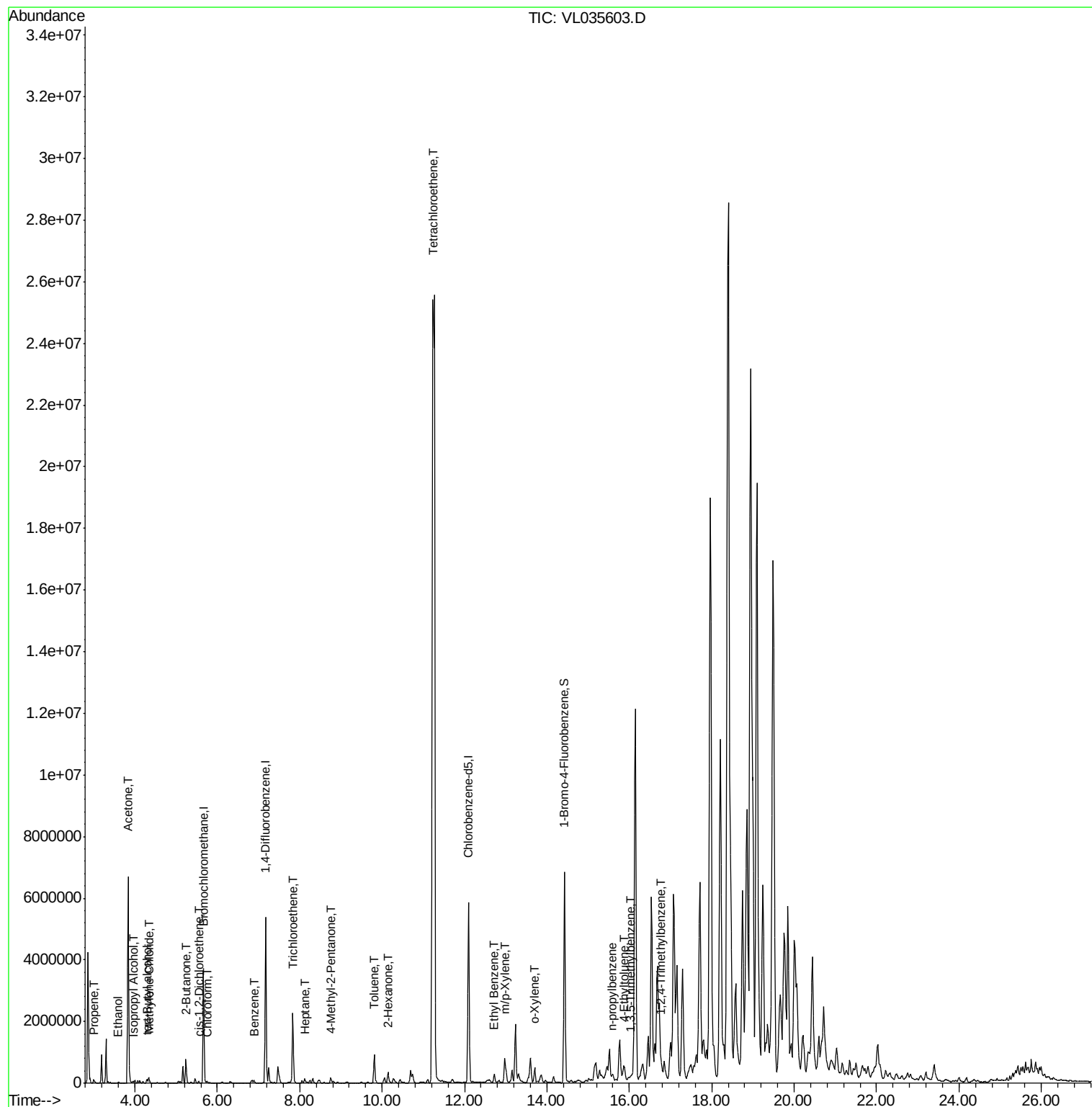
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
Data File : VL035603.D
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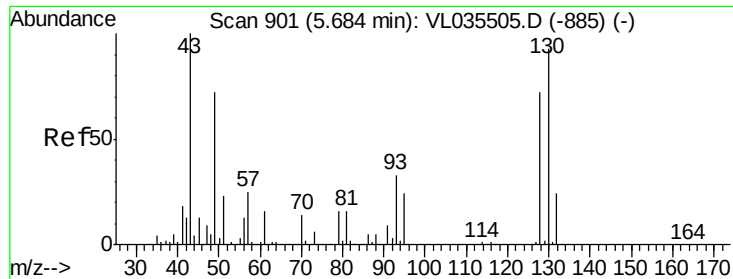
Instrument :
MSVOA_L
ClientSampleId :
SV-7

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Quant Time: Sep 15 16:47:14 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





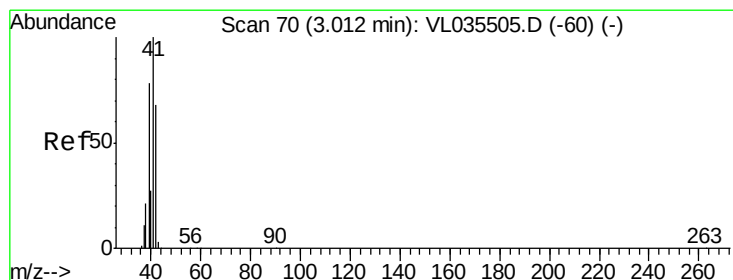
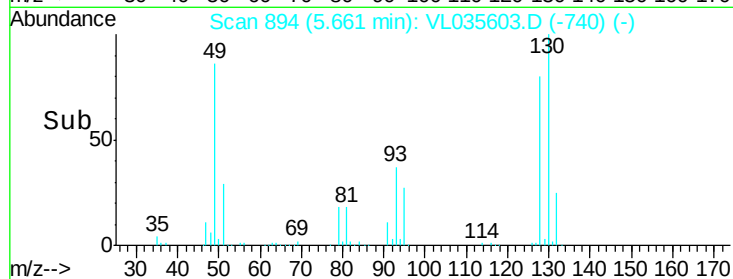
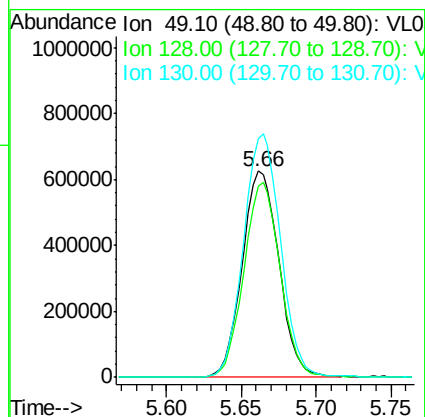
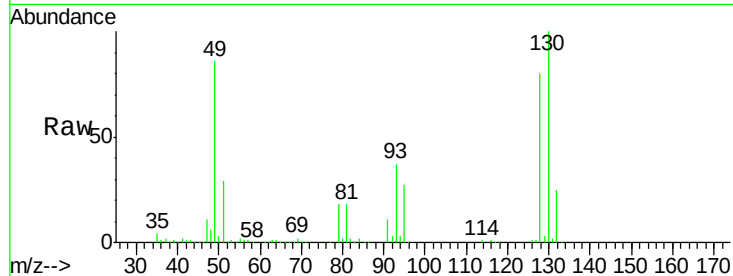
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL035603.D
Acq: 14 Sep 2020 17:52

Instrument :
MSVOA_L
ClientSampled :
SV-7

Tot Ion: 49 Resp: 1072168
Ion Ratio Lower Upper
49 100
128 93.8 50.0 150.1
130 119.6 64.4 193.2

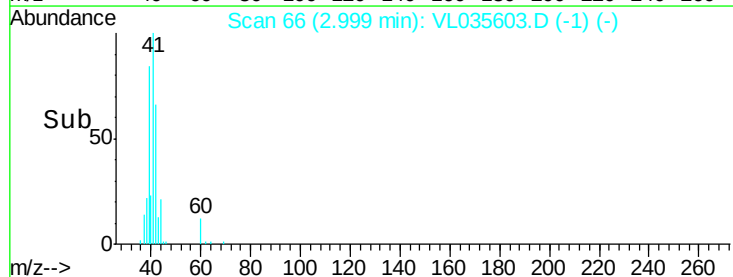
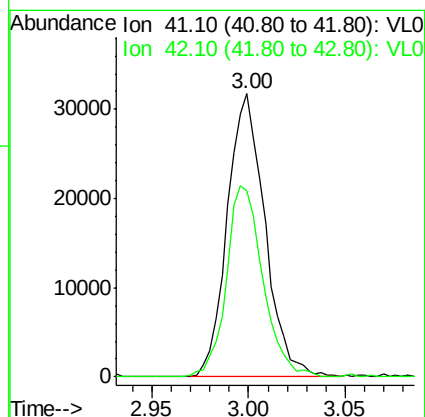
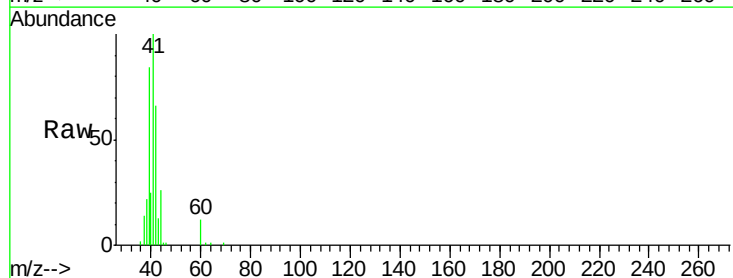
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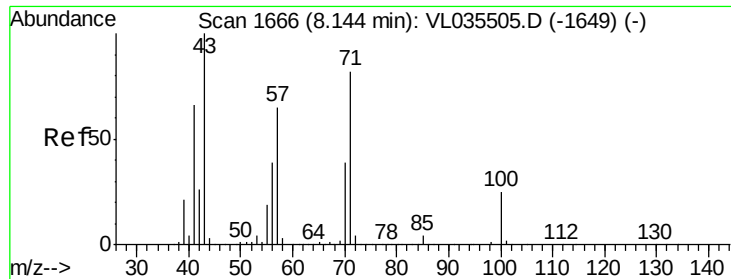
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#9
Propene
Concen: 0.941 ppbv
RT: 3.00 min Scan# 66
Delta R.T. 0.00 min
Lab File: VL035603.D
Acq: 14 Sep 2020 17:52

Tgt Ion: 41 Resp: 43003
Ion Ratio Lower Upper
41 100
42 65.4 56.3 84.5





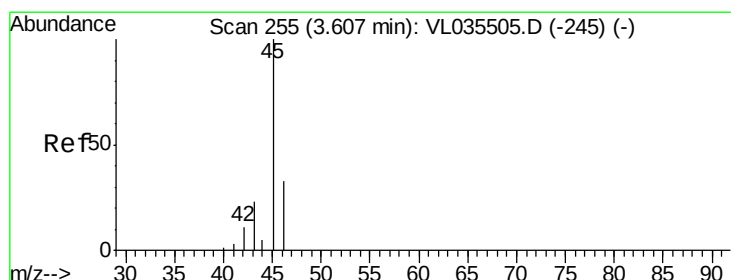
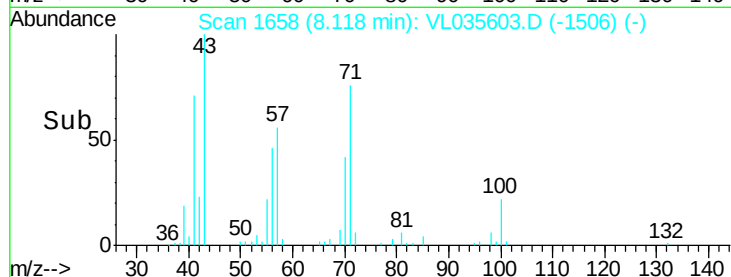
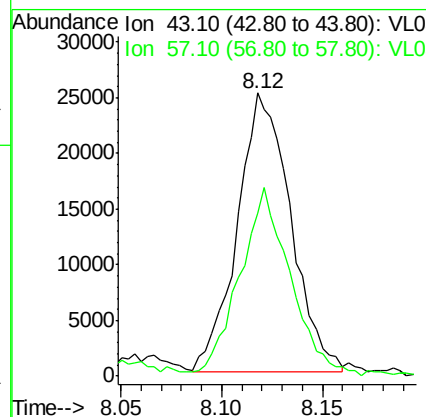
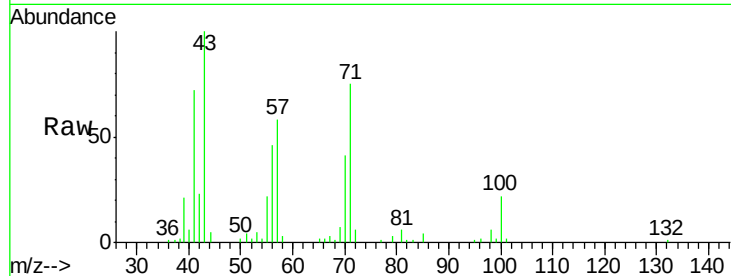
#10
Heptane
Concen: 0.378 ppbv
RT: 8.12 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VL035603.D
Acq: 14 Sep 2020 17:52

Instrument :
MSVOA_L
ClientSampled :
SV-7

Tot Ion: 43 Resp: 46469
Ion Ratio Lower Upper
43 100
57 65.2 51.4 77.0

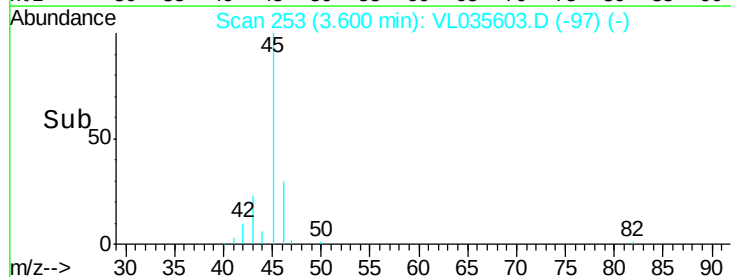
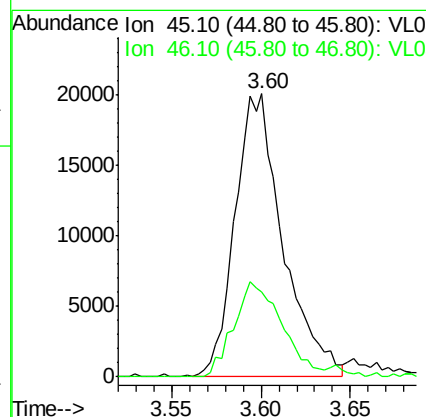
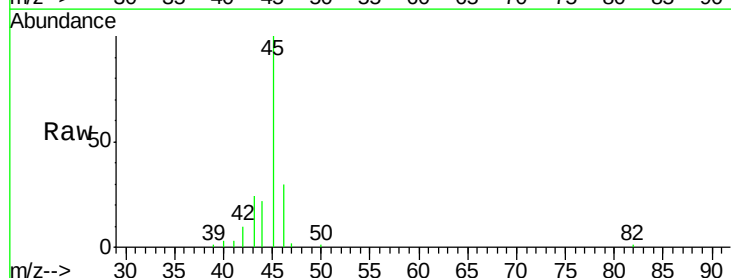
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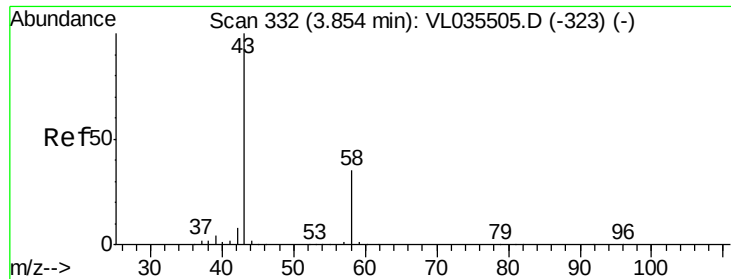
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#13
Ethanol
Concen: 3.313 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.00 min
Lab File: VL035603.D
Acq: 14 Sep 2020 17:52

Tgt Ion: 45 Resp: 37557
Ion Ratio Lower Upper
45 100
46 35.8 15.2 60.6





#15

Acetone

Concen: 53.833 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Instrument :

MSVOA_L

ClientSampled :

SV-7

Tot Ion: 43 Resp: 6365710

Ion Ratio Lower Upper

43 100

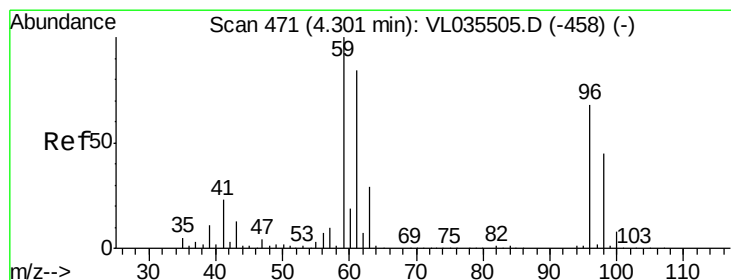
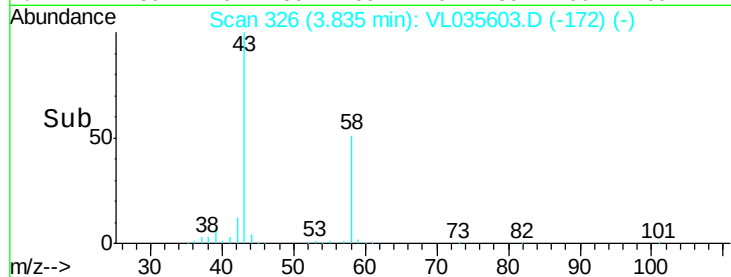
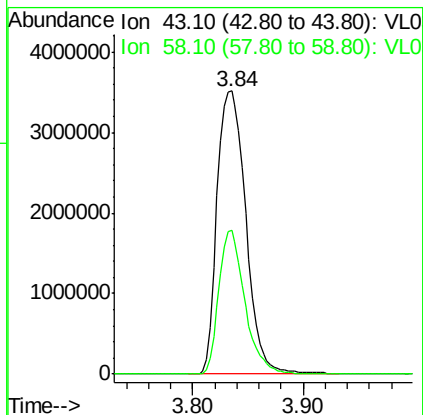
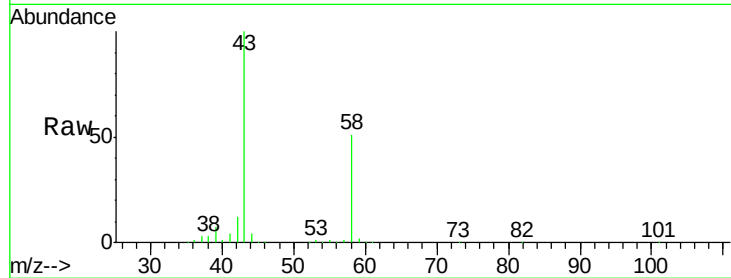
58 46.3 28.4 42.6#

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9/17/2020 5:40:14 PM



#17

tert-Butyl alcohol

Concen: 0.635 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL035603.D

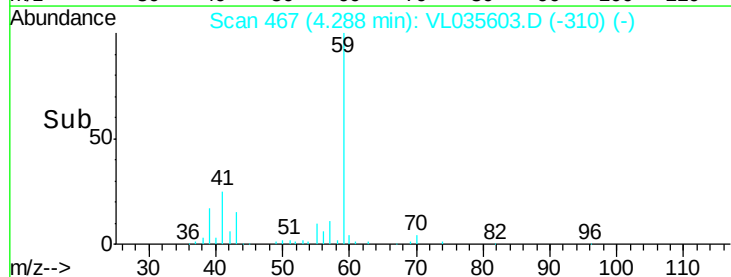
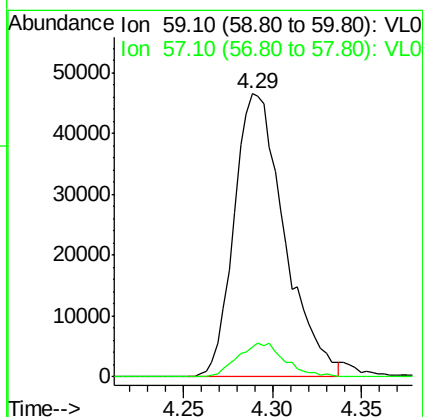
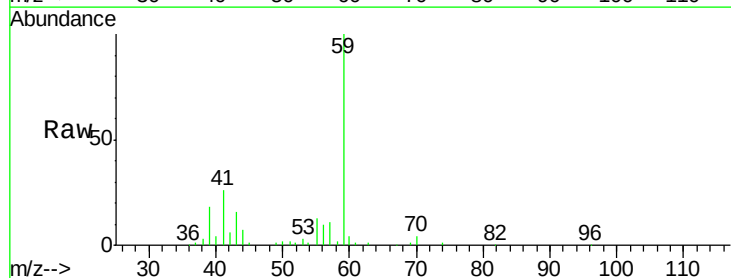
Acq: 14 Sep 2020 17:52

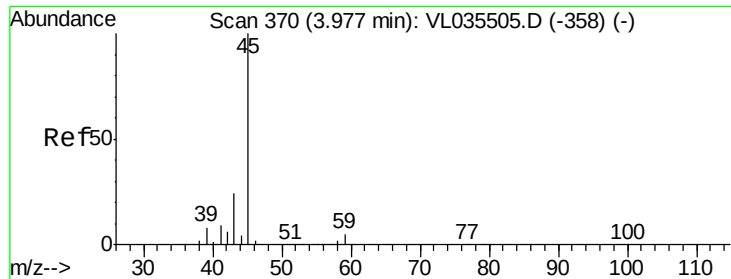
Tgt Ion: 59 Resp: 91334

Ion Ratio Lower Upper

59 100

57 11.4 8.4 12.6





#19

Isopropyl Alcohol

Concen: 0.501 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Instrument :

MSVOA_L

ClientSampled :

SV-7

Tot Ion: 45 Resp: 35357

Ion Ratio Lower Upper

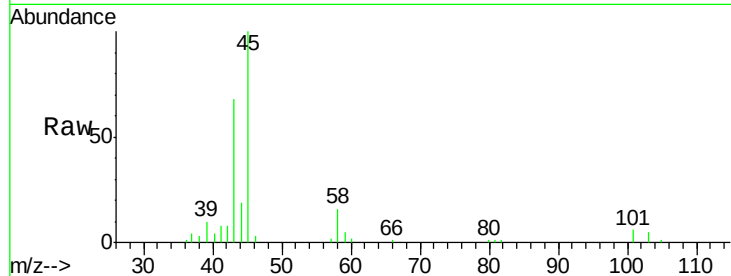
45 100

58 0.0 2.0 3.0#

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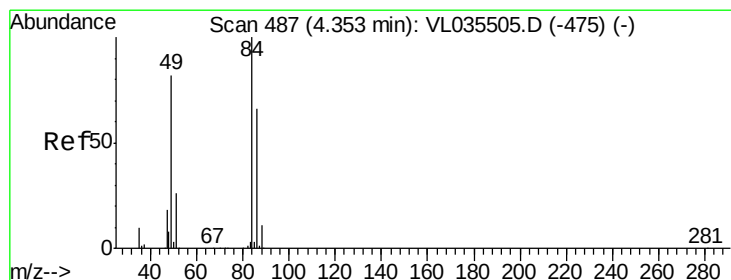
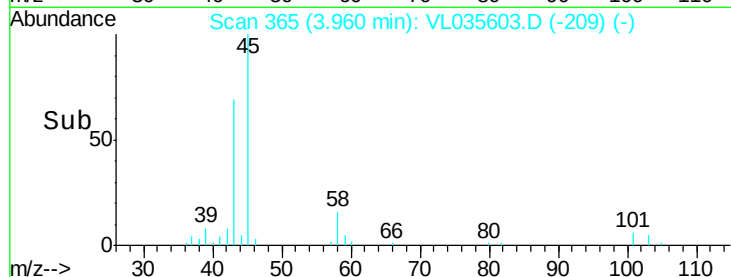
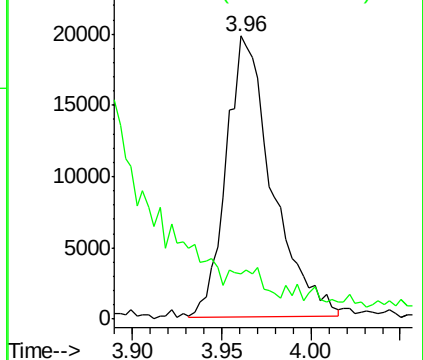
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.822 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Tgt Ion: 84 Resp: 72417

Ion Ratio Lower Upper

84 100

49 85.6 65.4 98.0

51 27.2 21.5 32.3

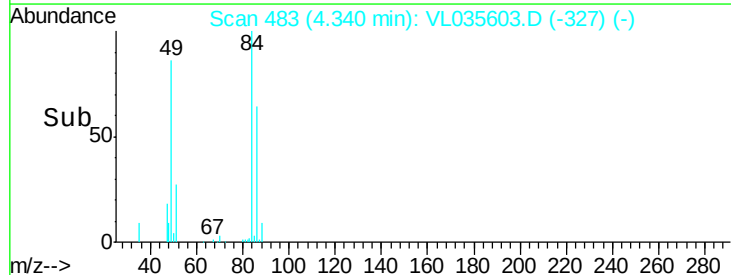
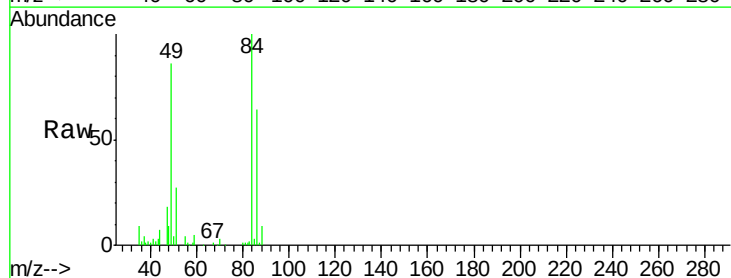
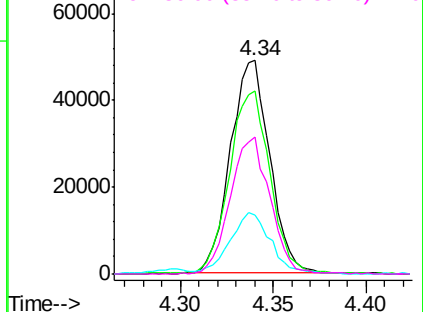
86 64.2 52.9 79.3

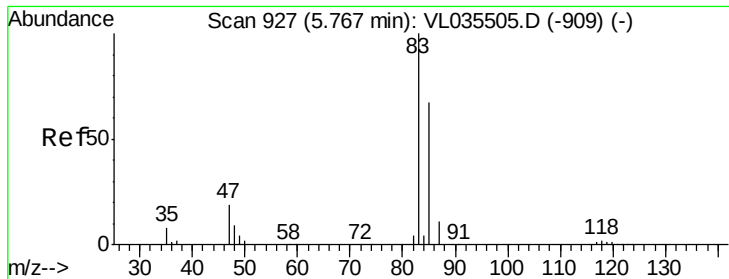
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





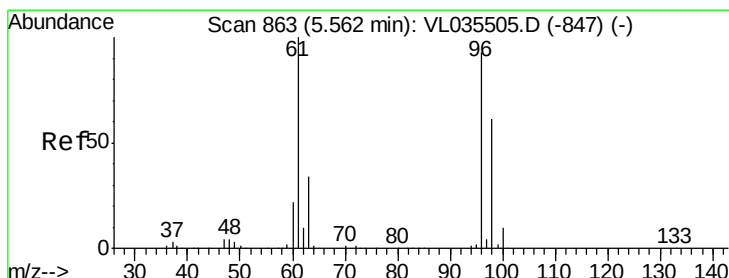
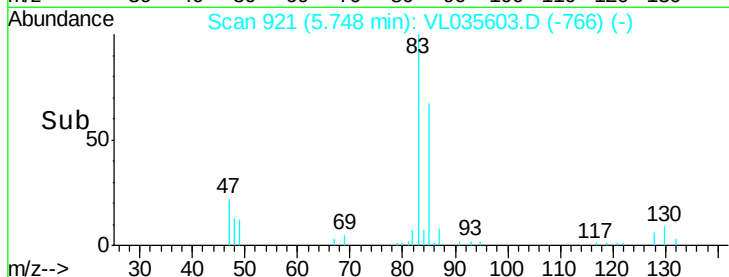
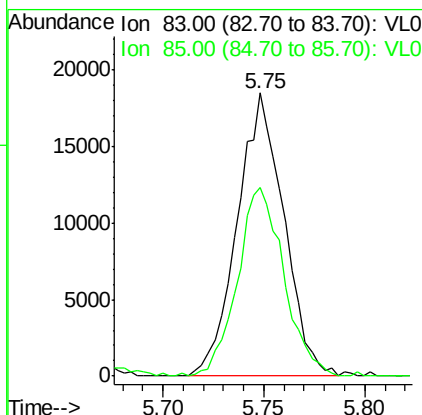
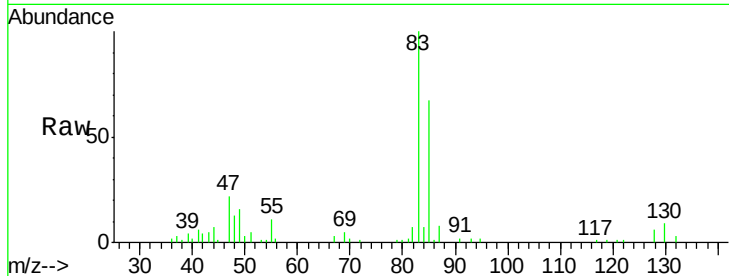
#29
Chloroform
Concen: 0.124 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL035603.D
Acq: 14 Sep 2020 17:52

Instrument :
MSVOA_L
ClientSampleId :
SV-7

Tot Ion	83	Resp	29875
Ion Ratio	100	Lower	Upper
85	66.6	53.9	80.9

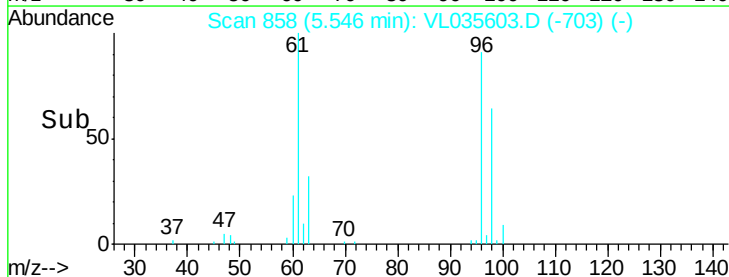
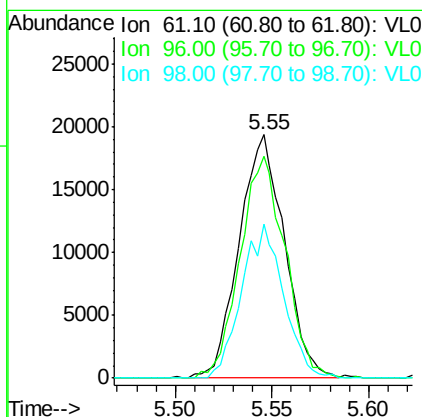
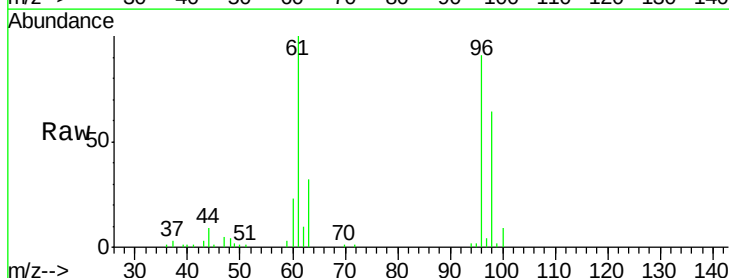
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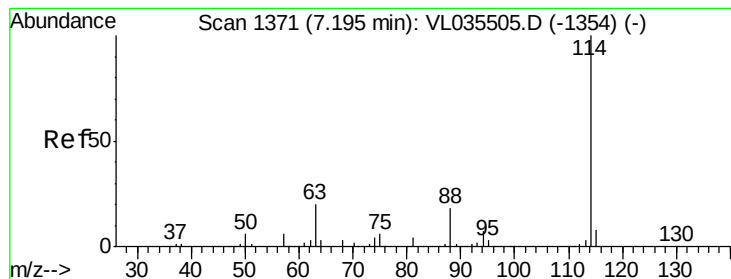
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#31
cis-1,2-Dichloroethene
Concen: 0.259 ppbv
RT: 5.55 min Scan# 858
Delta R.T. -0.00 min
Lab File: VL035603.D
Acq: 14 Sep 2020 17:52

Tgt Ion	61	Resp	31454
Ion Ratio	100	Lower	Upper
96	91.0	74.4	111.6
98	63.5	49.2	73.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Instrument :

MSVOA_L

ClientSampled :

SV-7

Tot Ion:114 Resp: 4508968

Ion Ratio Lower Upper

114 100

63 18.7 14.7 22.1

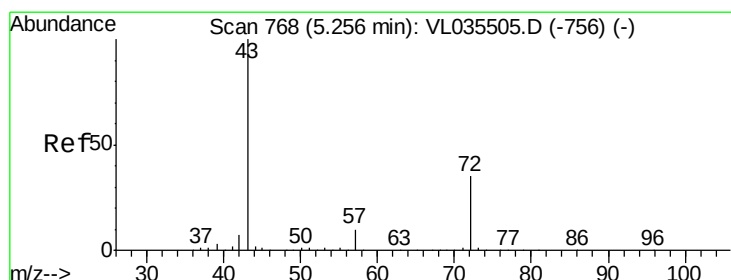
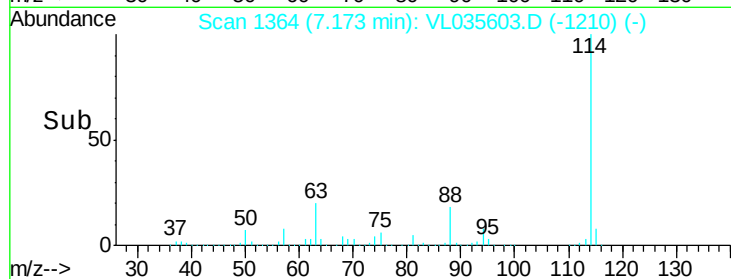
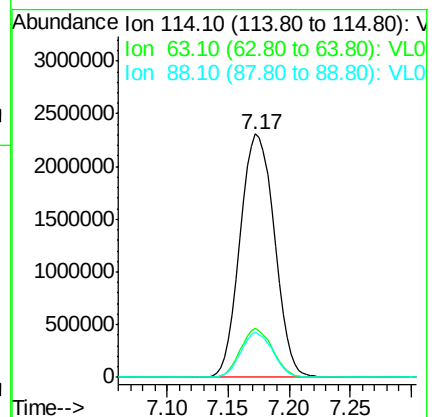
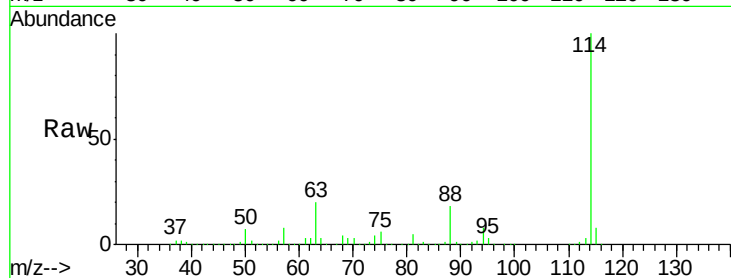
88 17.2 13.4 20.2

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#34

2-Butanone

Concen: 5.809 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.00 min

Lab File: VL035603.D

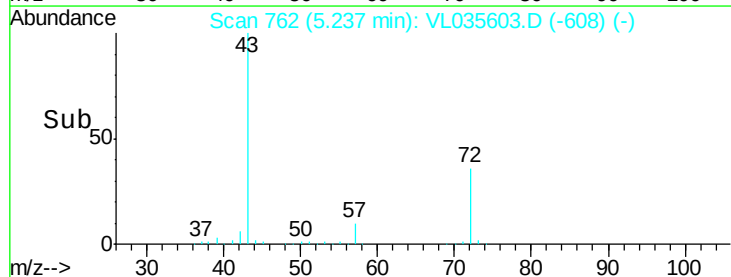
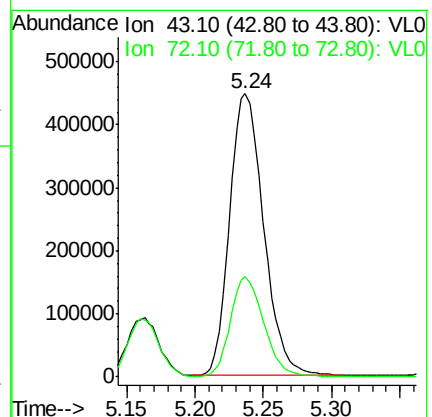
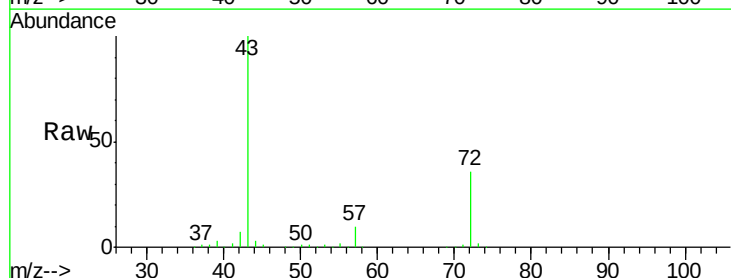
Acq: 14 Sep 2020 17:52

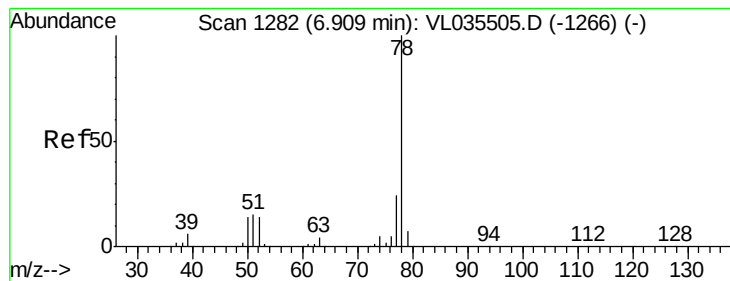
Tgt Ion: 43 Resp: 777333

Ion Ratio Lower Upper

43 100

72 35.3 27.7 41.5





#36

Benzene

Concen: 0.279 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Instrument :

MSVOA_L

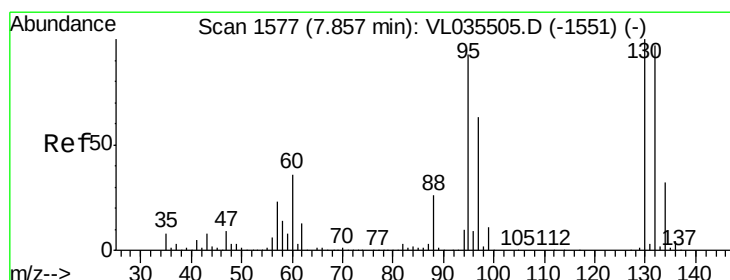
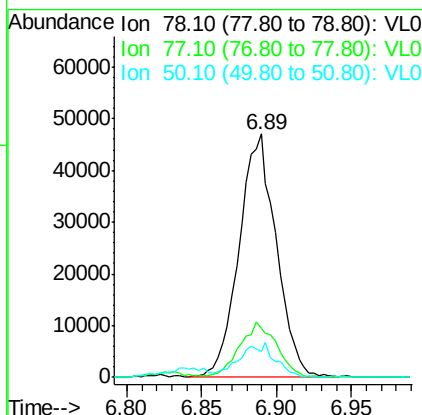
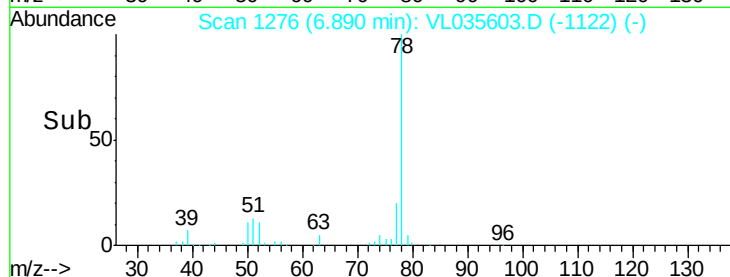
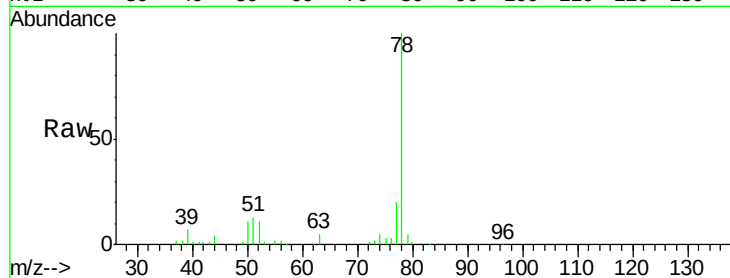
ClientSampleId :

SV-7

Tot Ion:	78	Resp:	81492
Ion Ratio	Lower	Upper	
78	100		
77	20.0	19.3	28.9
50	10.8	11.0	16.6#

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#38

Trichloroethene

Concen: 4.697 ppbv

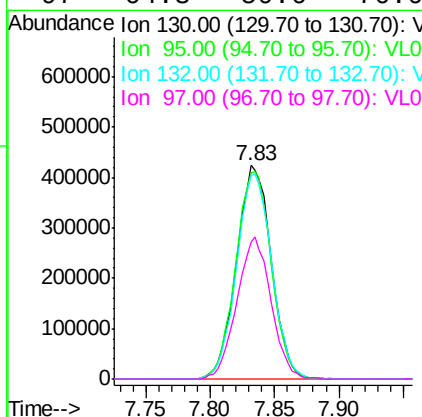
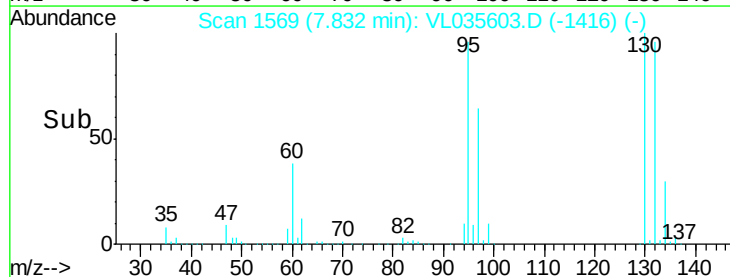
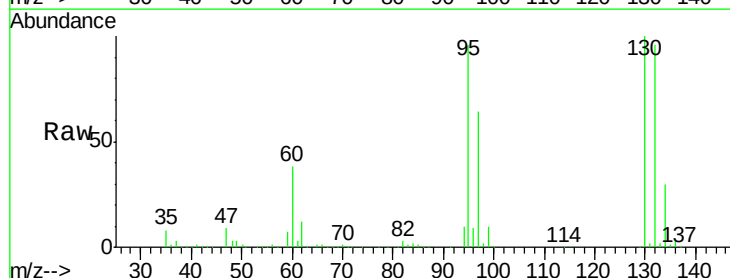
RT: 7.83 min Scan# 1569

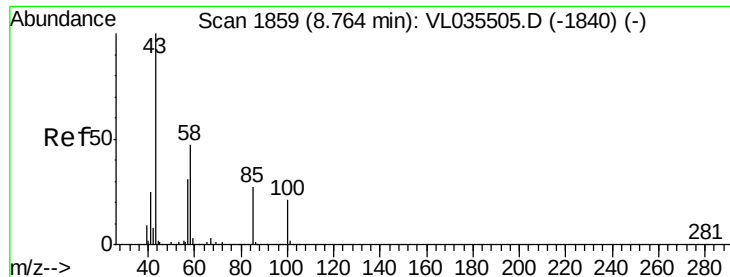
Delta R.T. -0.01 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Tgt Ion:	130	Resp:	796265
Ion Ratio	Lower	Upper	
130	100		
95	96.4	74.6	112.0
132	95.5	77.6	116.4
97	64.3	50.6	76.0





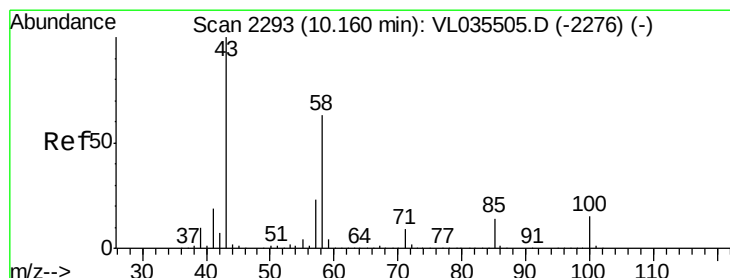
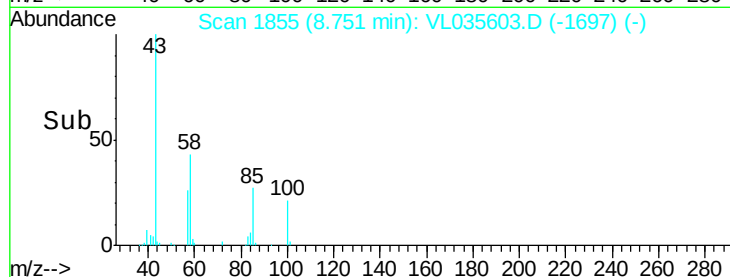
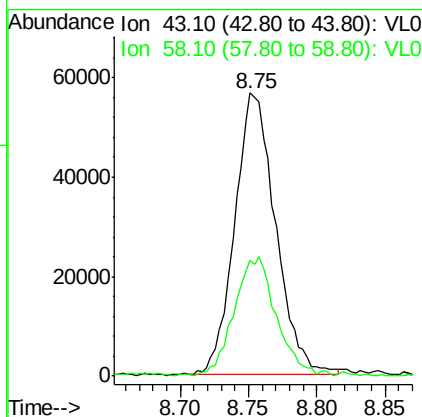
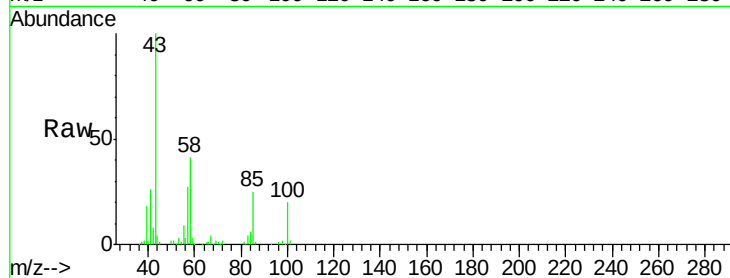
#50
 4-Methyl-2-Pentanone
 Concen: 0.610 ppbv
 RT: 8.75 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VL035603.D
 Acq: 14 Sep 2020 17:52

Instrument :
 MSVOA_L
 ClientSampled :
 SV-7

Tot Ion: 43 Resp: 118186
 Ion Ratio Lower Upper
 43 100
 58 44.5 37.4 56.0

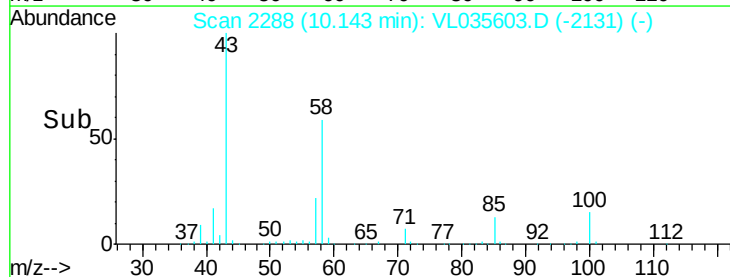
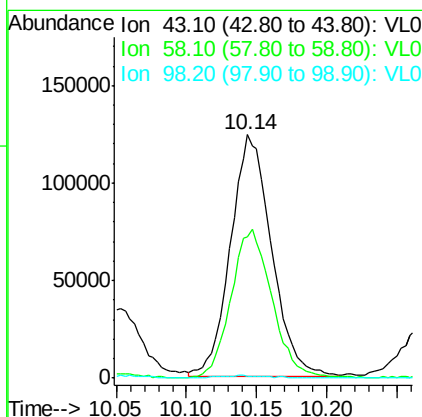
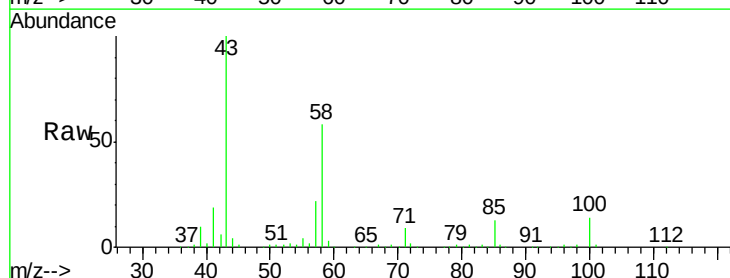
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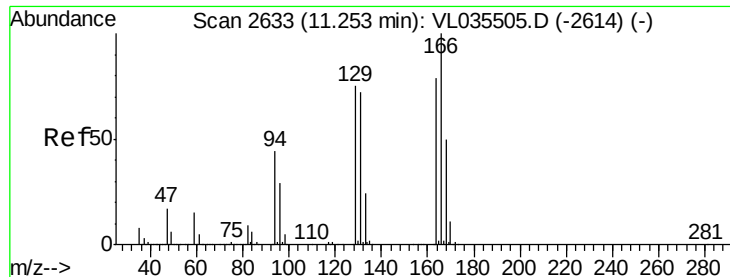
MMDadoda
 9/17/2020 5:40:14 PM



#51
 2-Hexanone
 Concen: 1.592 ppbv
 RT: 10.14 min Scan# 2288
 Delta R.T. 0.01 min
 Lab File: VL035603.D
 Acq: 14 Sep 2020 17:52

Tgt Ion: 43 Resp: 253053
 Ion Ratio Lower Upper
 43 100
 58 61.0 50.2 75.4
 98 1.5 0.4 0.6#





#52

Tetrachloroethene

Concen: 66.119 ppbv m

RT: 11.23 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

SV-7

Tot Ion:164 Resp:11273949

Ion Ratio Lower Upper

164 100

166 113.9 100.9 151.3

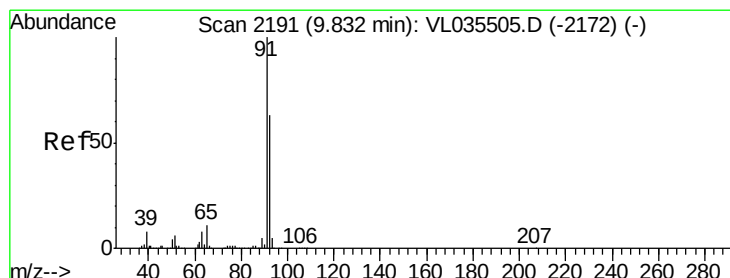
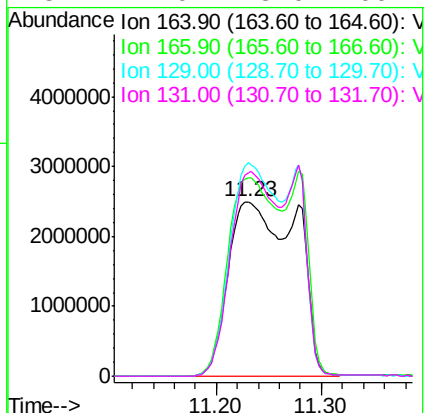
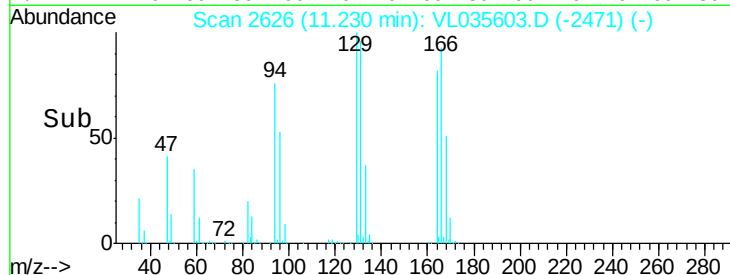
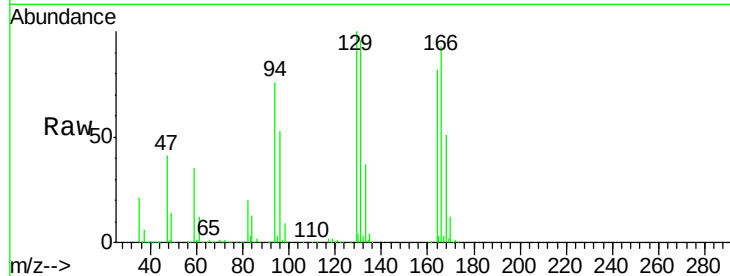
129 122.4 75.3 112.9#

131 117.0 73.0 109.4#

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9/17/2020 5:40:14 PM



#53

Toluene

Concen: 2.274 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035603.D

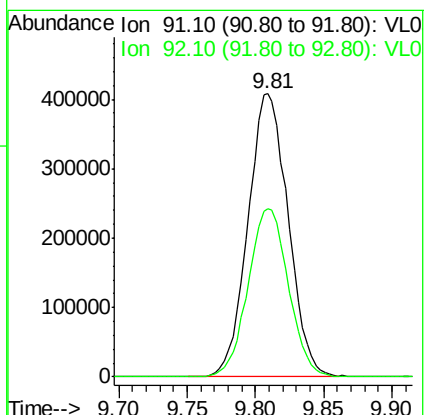
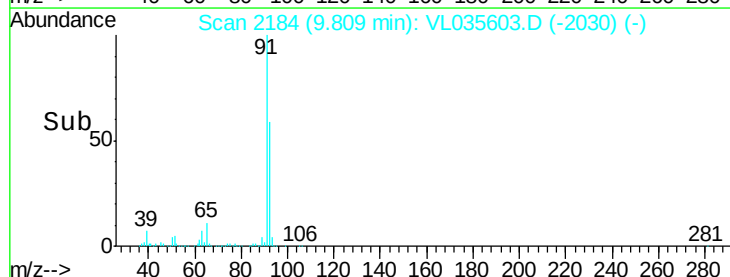
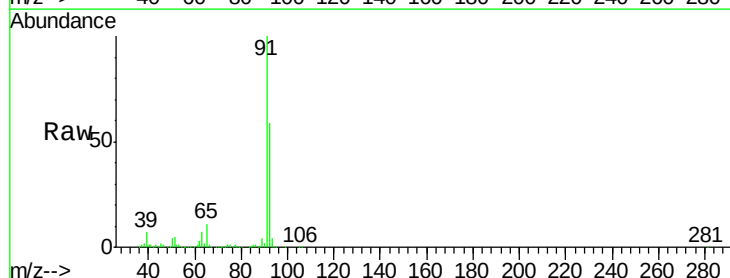
Acq: 14 Sep 2020 17:52

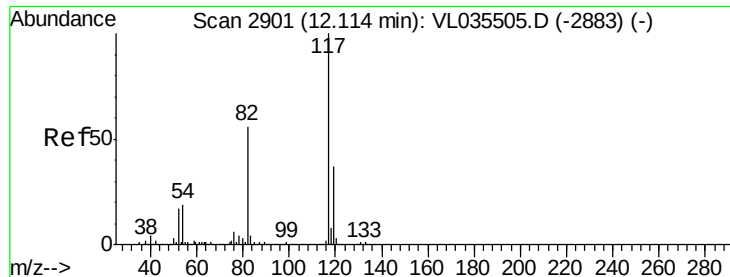
Tgt Ion: 91 Resp: 834806

Ion Ratio Lower Upper

91 100

92 59.8 49.8 74.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Instrument :

MSVOA_L

ClientSampled :

SV-7

Tot Ion:117 Resp: 4563458

Ion Ratio Lower Upper

117 100

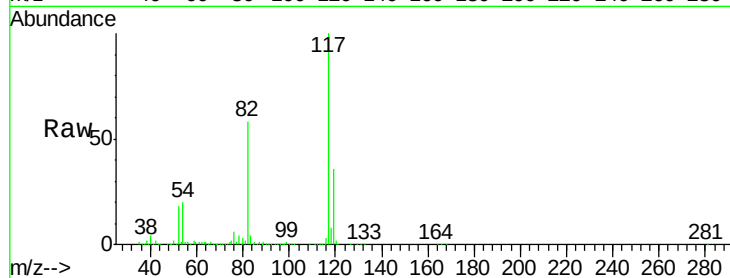
82 55.6 41.6 62.4

119 35.0 29.3 43.9

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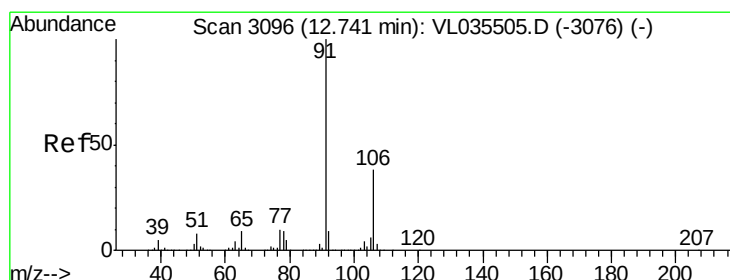
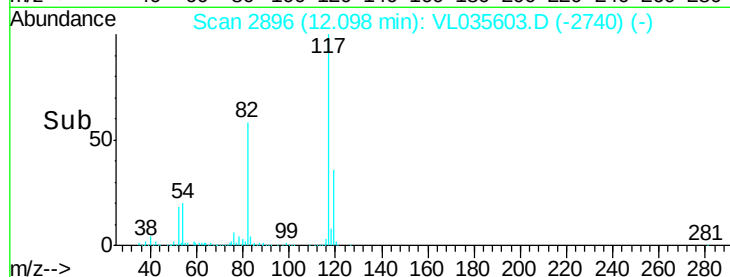
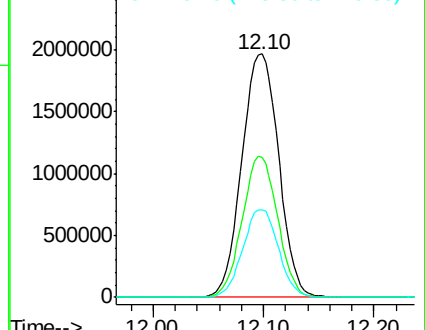
9/17/2020 5:40:14 PM



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



#58

Ethyl Benzene

Concen: 0.543 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL035603.D

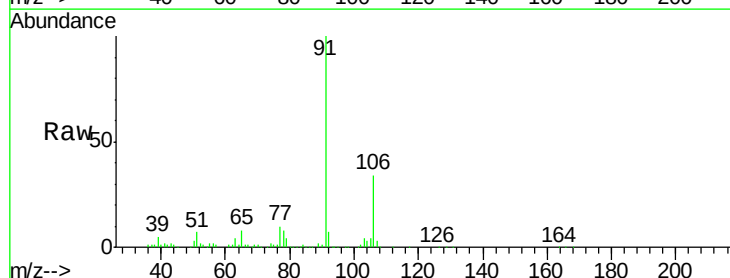
Acq: 14 Sep 2020 17:52

Tgt Ion: 91 Resp: 255427

Ion Ratio Lower Upper

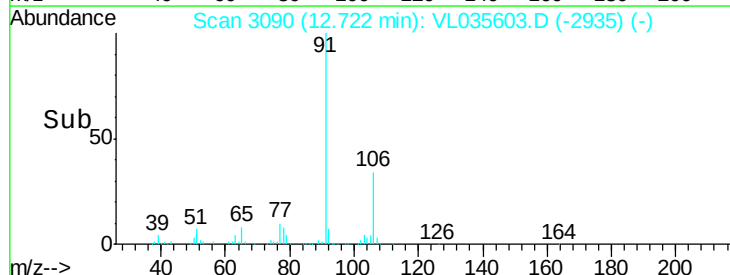
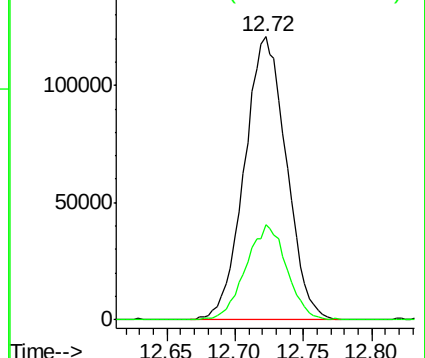
91 100

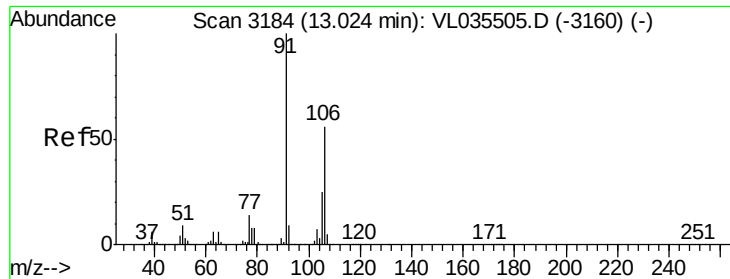
106 33.9 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





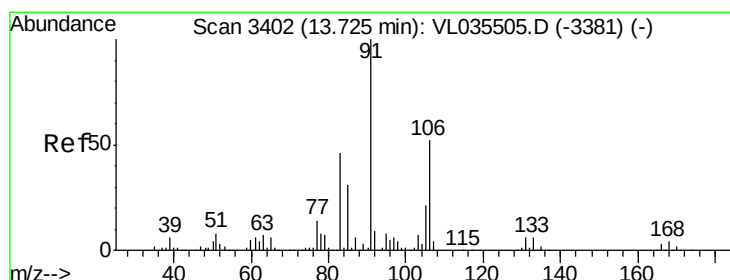
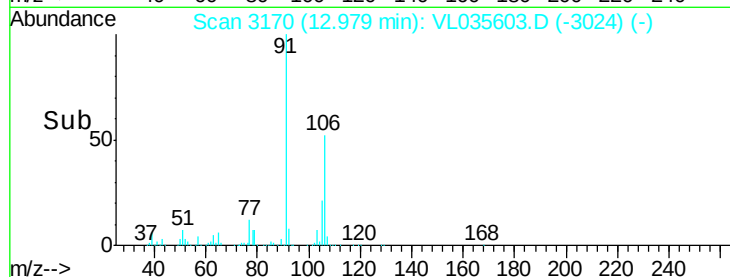
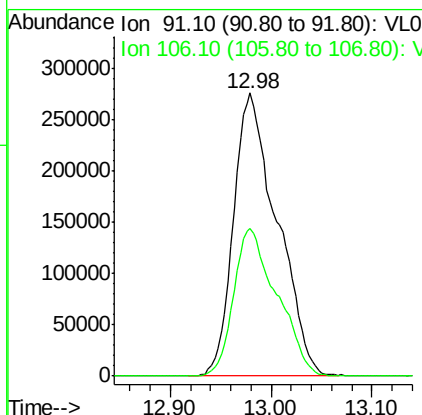
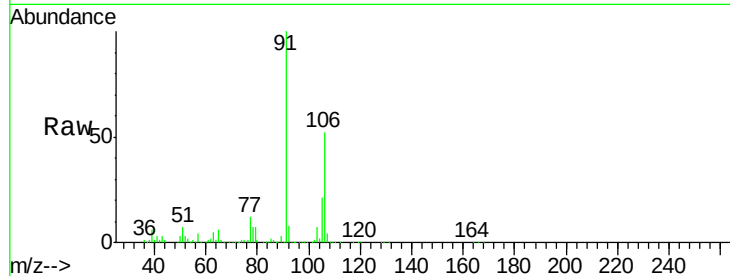
#59
m/p-Xylene
Concen: 2.100 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. -0.03 min
Lab File: VL035603.D
Acq: 14 Sep 2020 17:52

Instrument :
MSVOA_L
ClientSampled :
SV-7

Tot Ion: 91 Resp: 825697
Ion Ratio Lower Upper
91 100
106 51.9 43.4 65.2

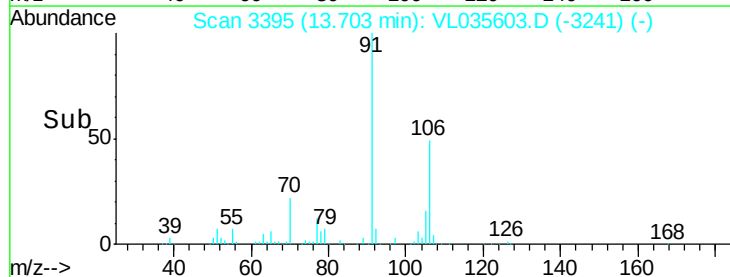
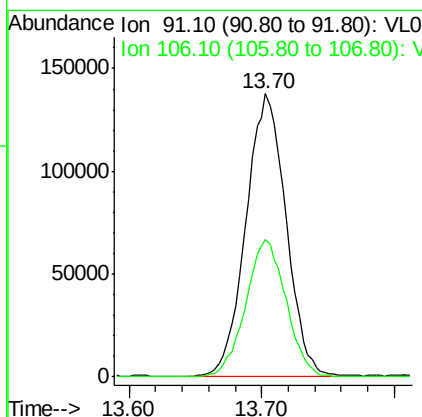
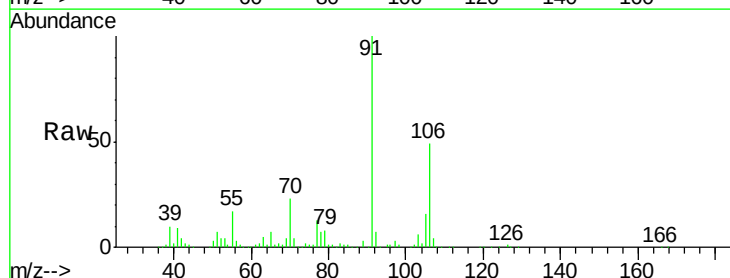
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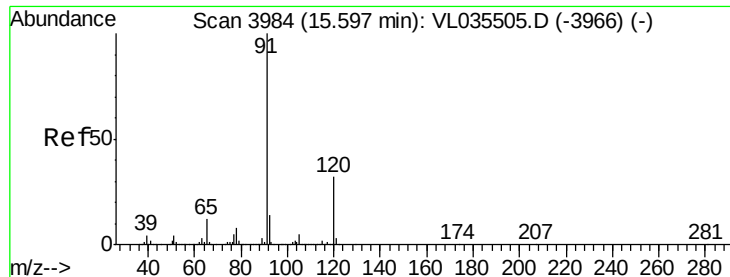
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#60
o-Xylene
Concen: 0.729 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL035603.D
Acq: 14 Sep 2020 17:52

Tgt Ion: 91 Resp: 288628
Ion Ratio Lower Upper
91 100
106 49.1 25.8 77.4





#64

n-propylbenzene

Concen: 0.154 ppbv

RT: 15.57 min Scan# 3977

Delta R.T. -0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Instrument :

MSVOA_L

ClientSampled :

SV-7

Tot Ion:120 Resp: 29981

Ion Ratio Lower Upper

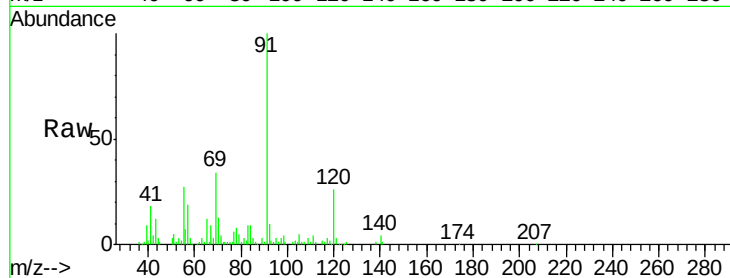
120 100

91 446.8 279.4 419.0#

Manual Integrations
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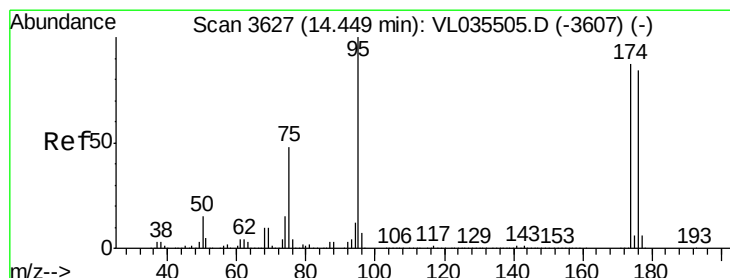
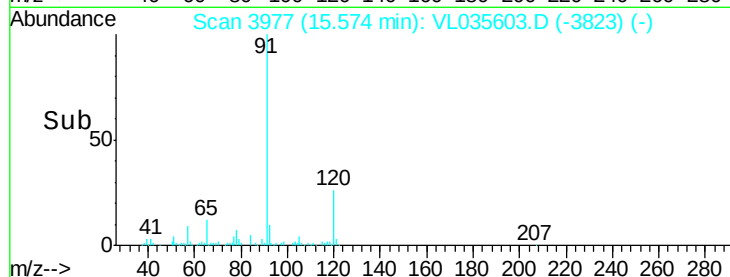
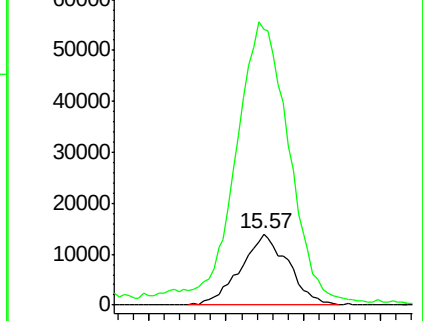
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.757 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

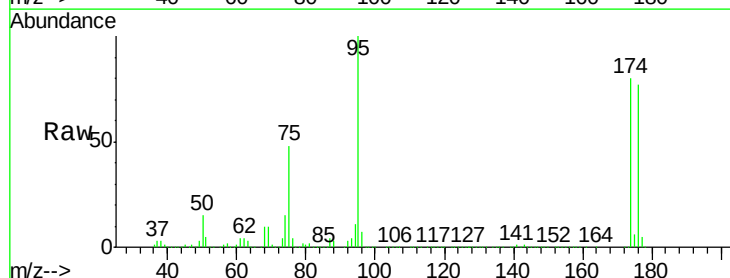
Tgt Ion: 95 Resp: 3486006

Ion Ratio Lower Upper

95 100

174 79.6 69.6 104.4

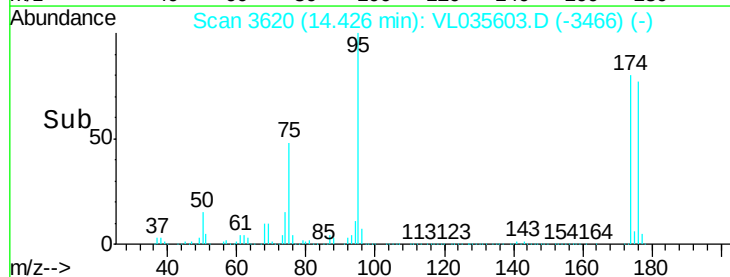
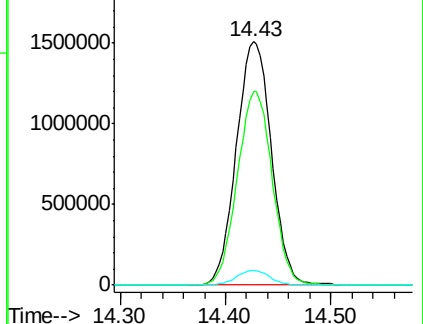
175 5.8 5.1 7.7

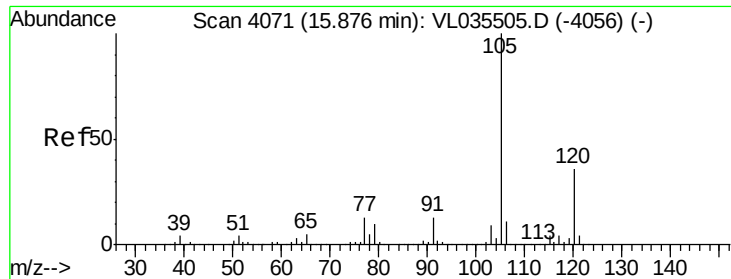


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.296 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

Instrument :

MSVOA_L

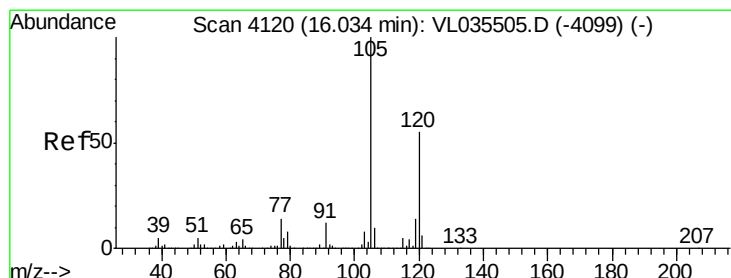
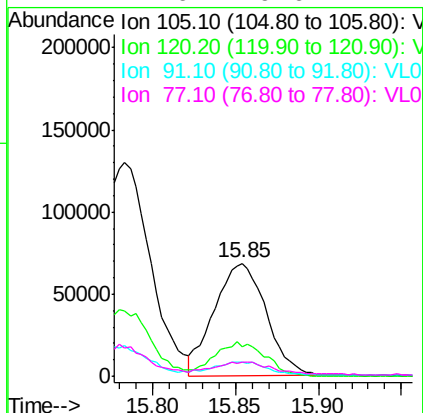
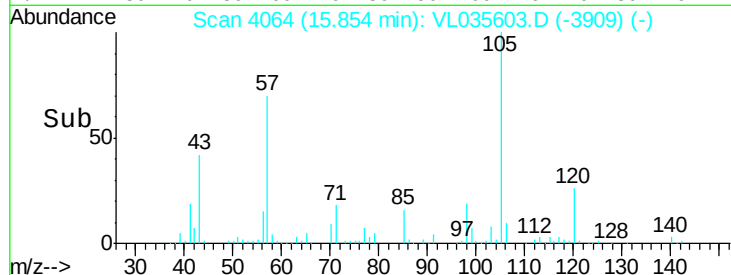
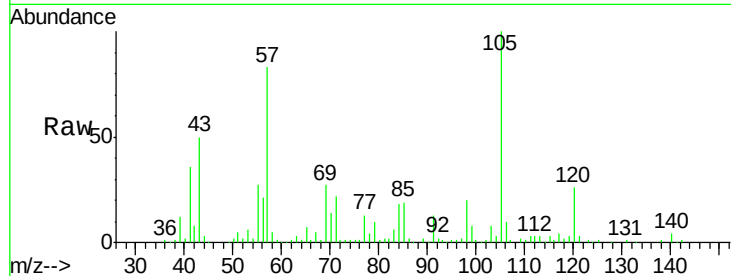
ClientSampled :

SV-7

Tot Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	148795		
120	120	30.4	27.4	41.2	
91	91	13.0	9.7	14.5	
77	77	14.6	9.6	14.4	

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#73

1,3,5-Trimethylbenzene

Concen: 0.175 ppbv

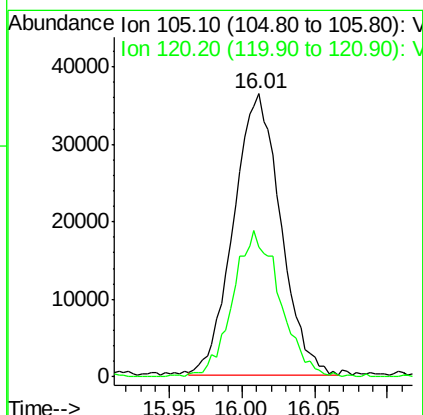
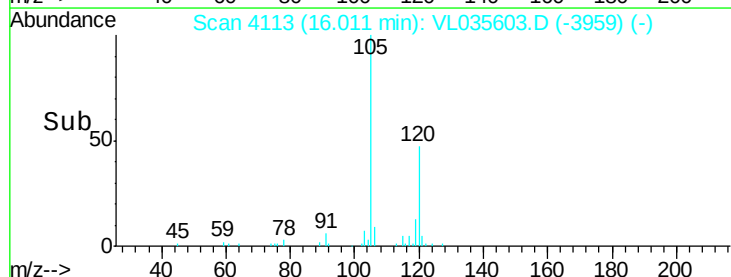
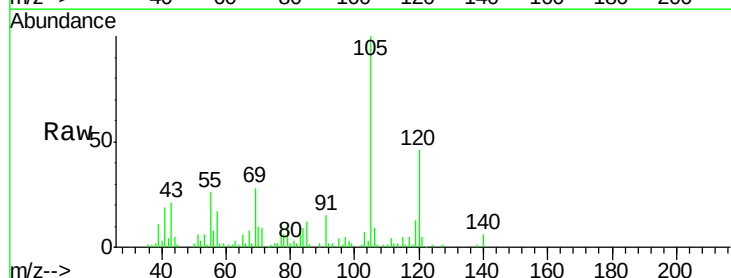
RT: 16.01 min Scan# 4113

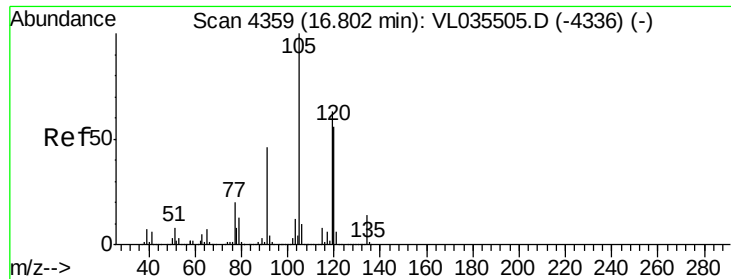
Delta R.T. -0.00 min

Lab File: VL035603.D

Acq: 14 Sep 2020 17:52

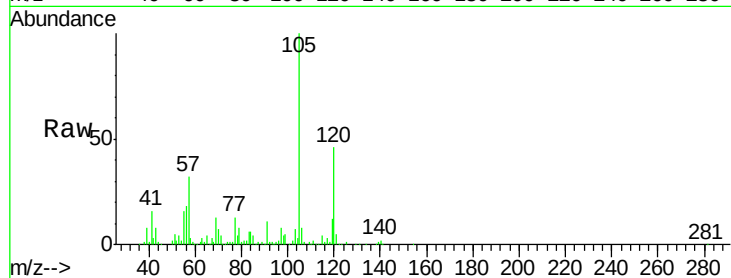
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	81687		
120	120	45.9	44.2	66.2	





#74
 1,2,4-Trimethylbenzene
 Concen: 0.682 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. -0.00 min
 Lab File: VL035603.D
 Acq: 14 Sep 2020 17:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-7



Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	45.6	44.4	66.6
91	10.2	37.1	55.7#
77	12.5	16.0	24.0#

Manual Integrations
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