

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035610.D
 Acq On : 14 Sep 2020 22:17
 Operator : SY/AP
 Sample : L3983-04DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12DL

Manual Integrations
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 9/17/2020 5:40:41 PM

Quant Time: Sep 17 16:18:46 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	5.65	49	1065406	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4585339	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	4594516	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3461345	10.61	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	294113	6.474	ppbv	94
13) Ethanol	3.60	45	30134	2.675	ppbv	97
15) Acetone	3.84	43	1578682	13.435	ppbv	96
19) Isopropyl Alcohol	3.97	45	21839	0.312	ppbv #	93
34) 2-Butanone	5.24	43	182957	1.344	ppbv	100
36) Benzene	6.88	78	54687m	0.184	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	961824	4.881	ppbv	100
51) 2-Hexanone	10.14	43	57030m	0.353	ppbv	
52) Tetrachloroethene	11.22	164	6029773	34.774	ppbv #	84
53) Toluene	9.80	91	319189	0.855	ppbv	97
58) Ethyl Benzene	12.71	91	115866m	0.245	ppbv	
59) m/p-Xylene	12.97	91	429236	1.084	ppbv	96
60) o-Xylene	13.69	91	144223	0.362	ppbv	99
64) n-propylbenzene	15.56	120	20069	0.103	ppbv	68
72) 4-Ethyltoluene	15.84	105	109267	0.216	ppbv	95
73) 1,3,5-Trimethylbenzene	16.00	105	49041	0.105	ppbv	85
74) 1,2,4-Trimethylbenzene	16.76	105	235864	0.458	ppbv #	70

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

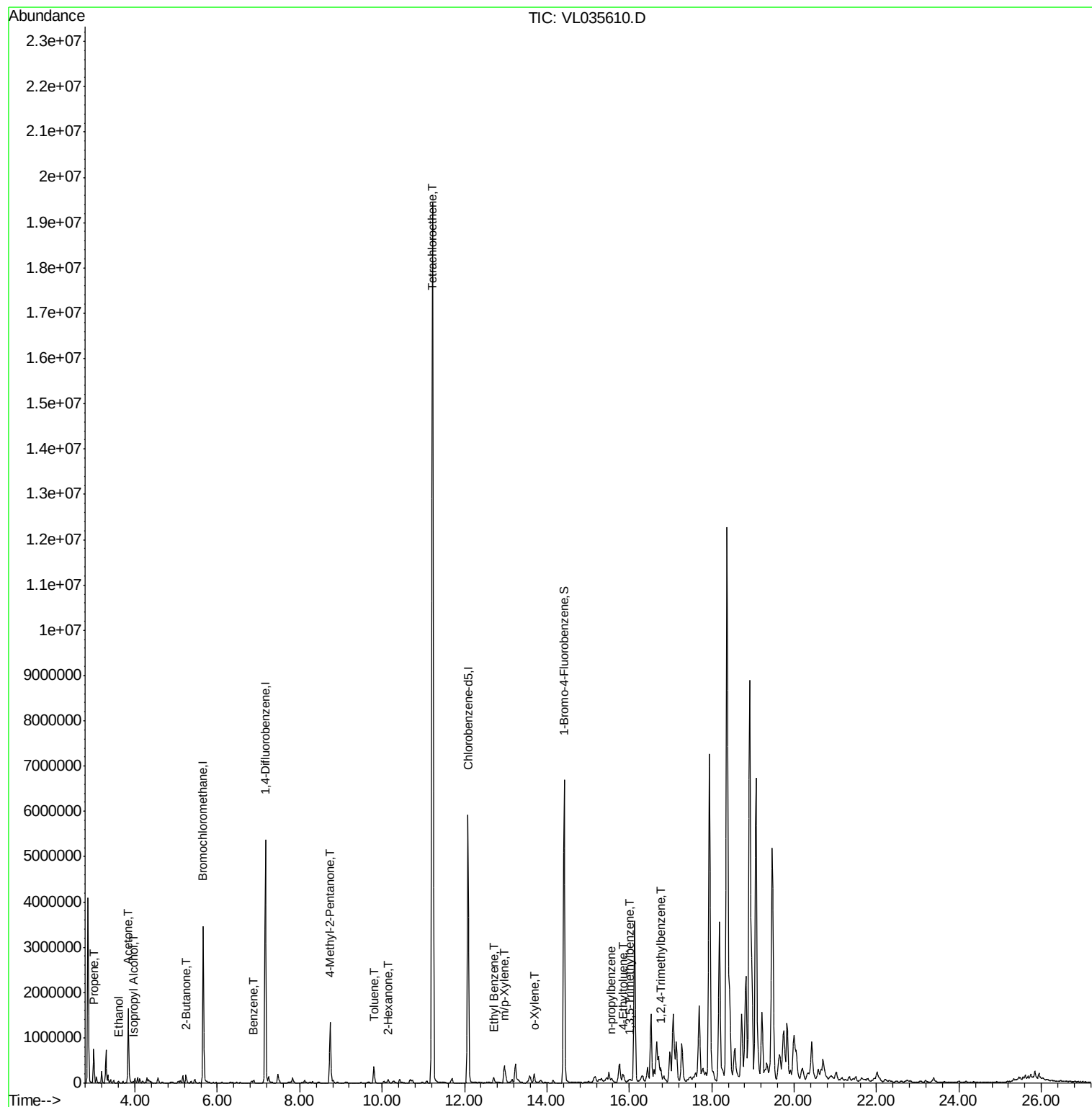
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
Data File : VL035610.D
Acq On : 14 Sep 2020 22:17
Operator : SY/AP
Sample : L3983-04DL 40X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

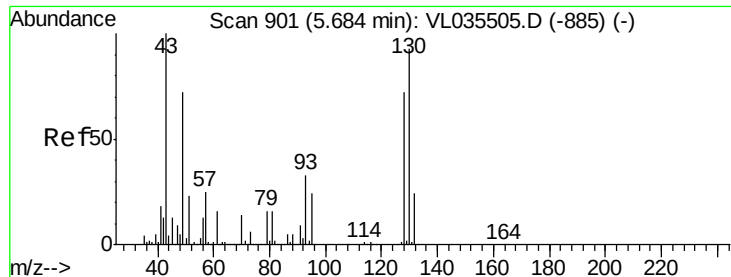
Instrument :
MSVOA_L
ClientSampleId :
SV-12DL

Manual Integrations
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Quant Time: Sep 17 16:18:46 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: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL035610.D

Acq: 14 Sep 2020 22:17

Instrument :

MSVOA_L

ClientSampleId :

SV-12DL

Tot Ion: 49 Resp: 1065406

Ion Ratio Lower Upper

49 100

128 94.8 50.0 150.1

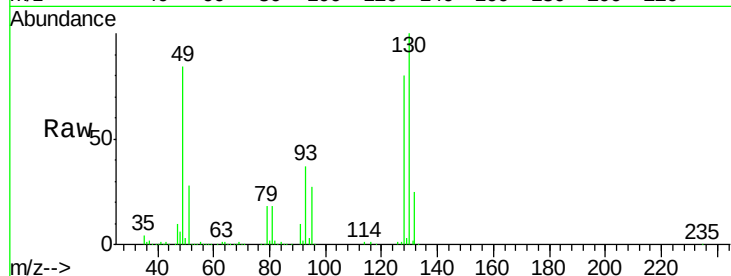
130 120.8 64.4 193.2

Manual Integrations

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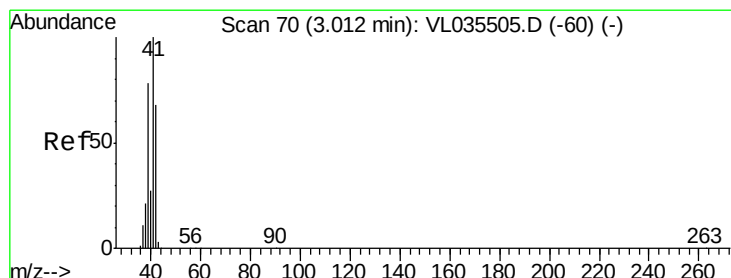
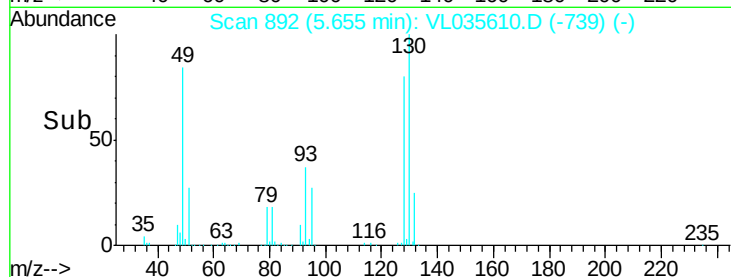
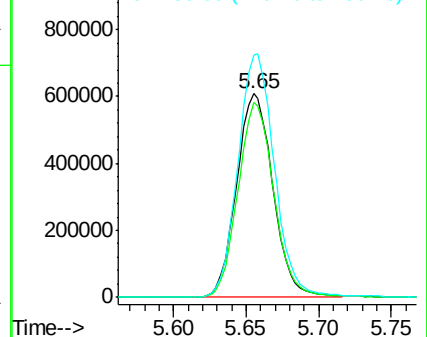
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 6.474 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL035610.D

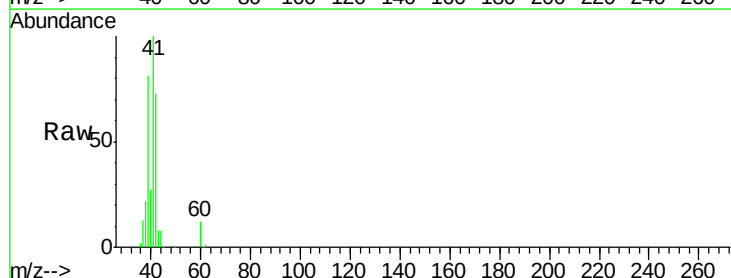
Acq: 14 Sep 2020 22:17

Tgt Ion: 41 Resp: 294113

Ion Ratio Lower Upper

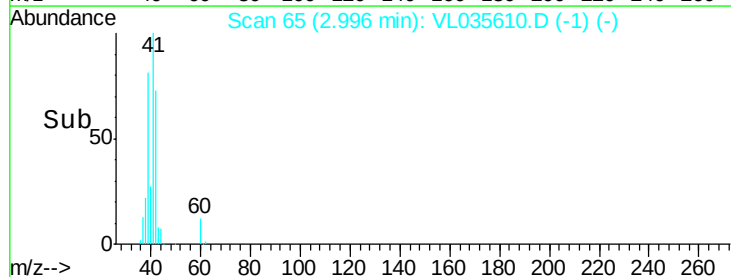
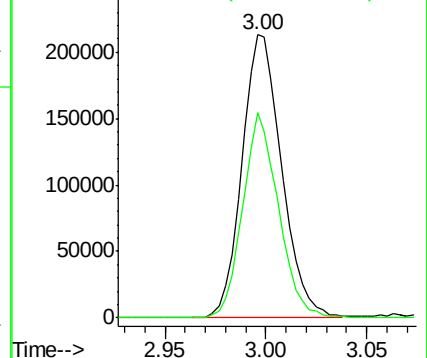
41 100

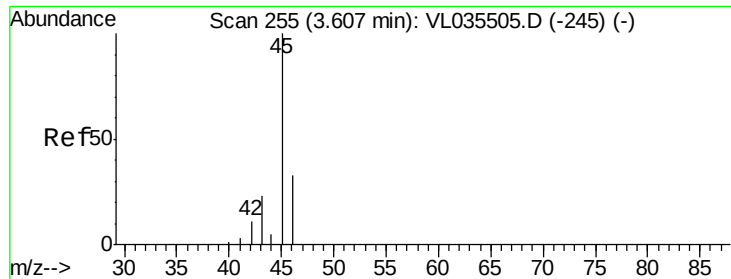
42 65.8 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





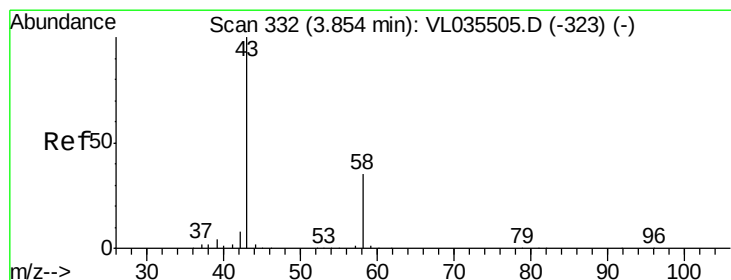
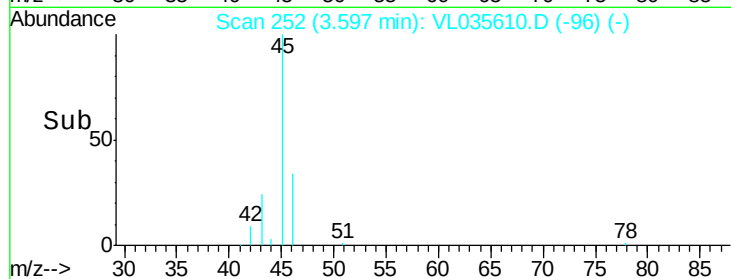
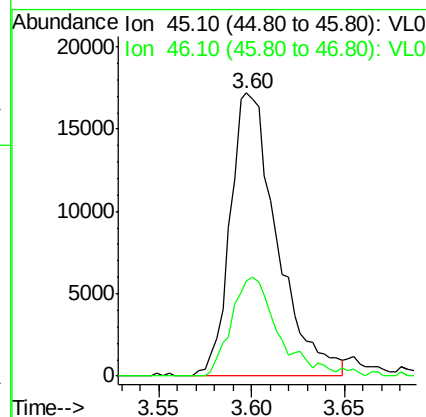
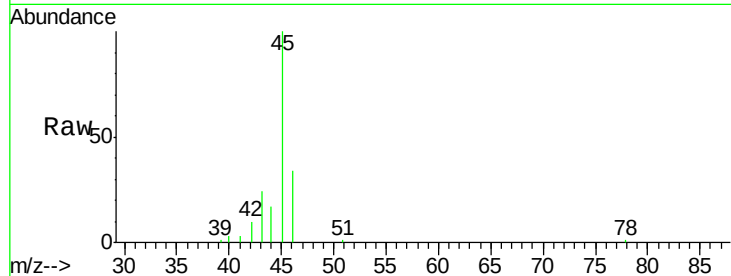
#13
Ethanol
Concen: 2.675 ppbv
RT: 3.60 min Scan# 252
Delta R.T. 0.00 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Instrument :
MSVOA_L
ClientSampleId :
SV-12DL

Tot Ion	45.10	Resp	30134
Ion Ratio	Lower	Upper	
45	100		
46	35.8	15.2	60.6

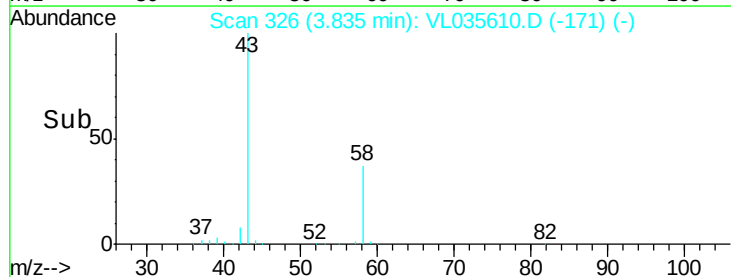
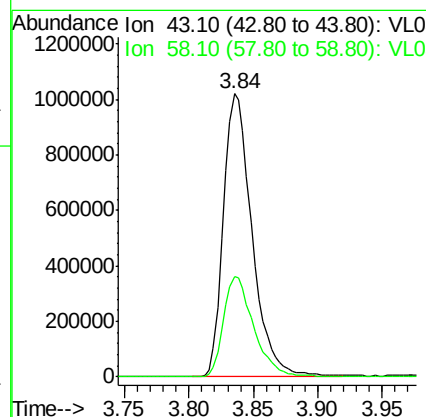
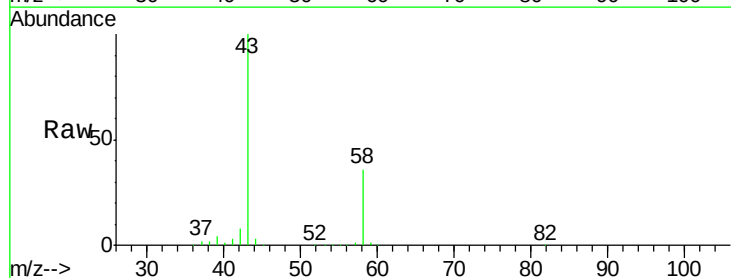
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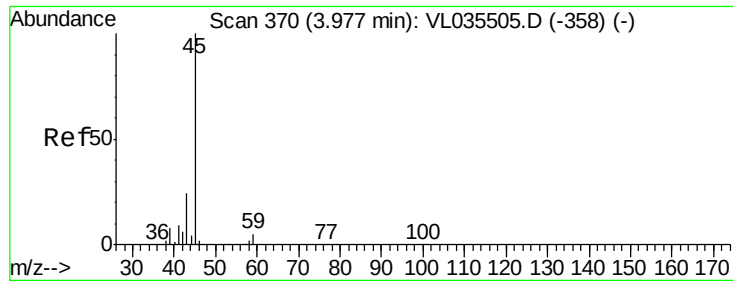
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#15
Acetone
Concen: 13.435 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Tgt Ion	43	Resp	1578682
Ion Ratio	Lower	Upper	
43	100		
58	37.6	28.4	42.6





#19

Isopropyl Alcohol

Concen: 0.312 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL035610.D

Acq: 14 Sep 2020 22:17

Instrument :

MSVOA_L

ClientSampleId :

SV-12DL

Tot Ion: 45 Resp: 21839

Ion Ratio Lower Upper

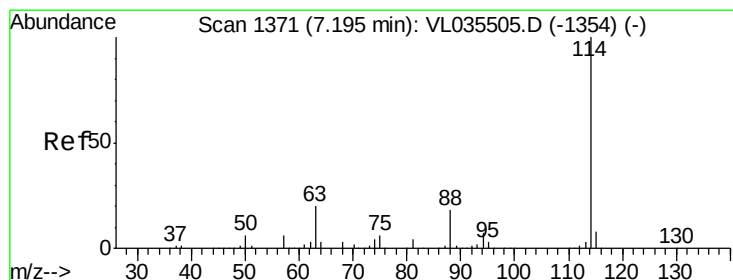
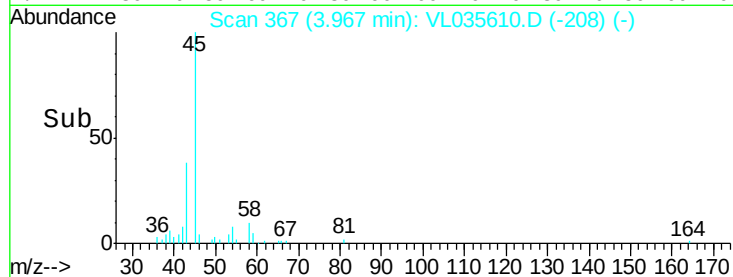
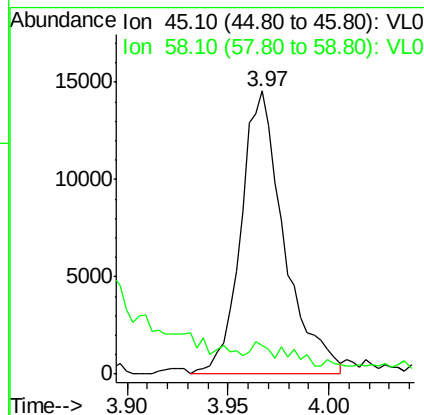
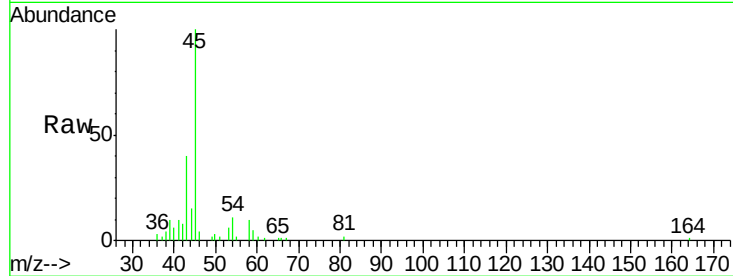
45 100

58 0.0 2.0 3.0#

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VL035610.D

Acq: 14 Sep 2020 22:17

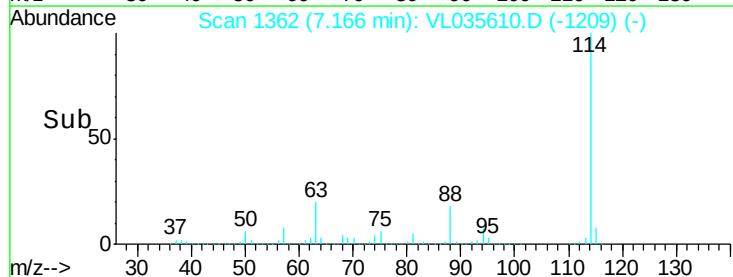
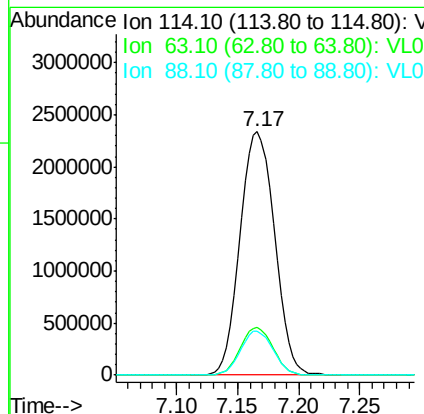
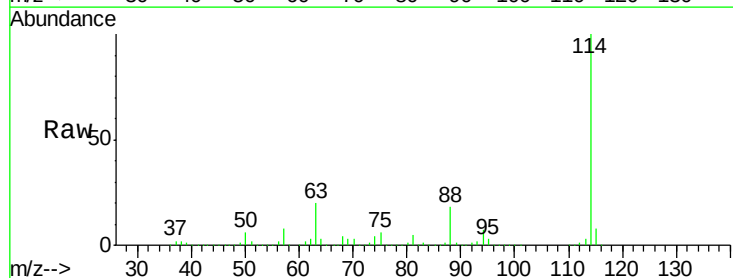
Tgt Ion: 114 Resp: 4585339

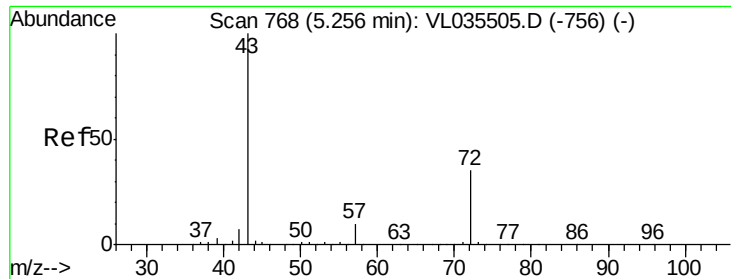
Ion Ratio Lower Upper

114 100

63 18.6 14.7 22.1

88 17.2 13.4 20.2





#34

2-Butanone

Concen: 1.344 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.00 min

Lab File: VL035610.D

Acq: 14 Sep 2020 22:17

Instrument :

MSVOA_L

ClientSampled :

SV-12DL

Tot Ion: 43 Resp: 182957

Ion Ratio Lower Upper

43 100

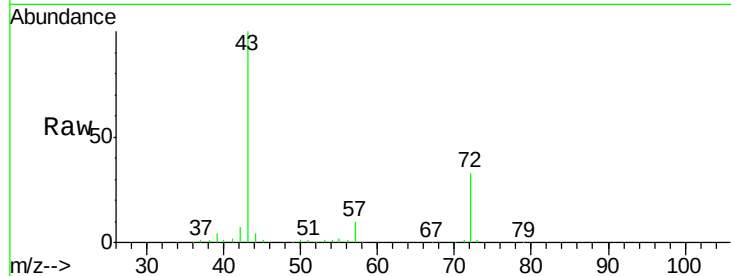
72 34.7 27.7 41.5

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

120000

100000

80000

60000

40000

20000

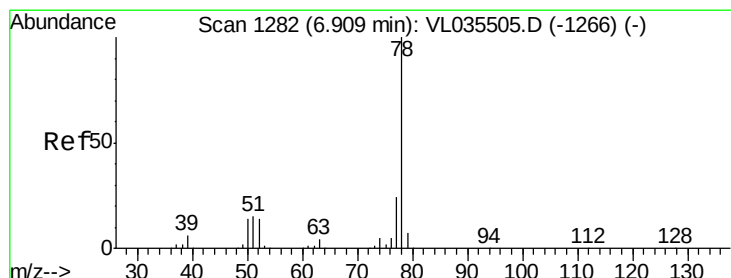
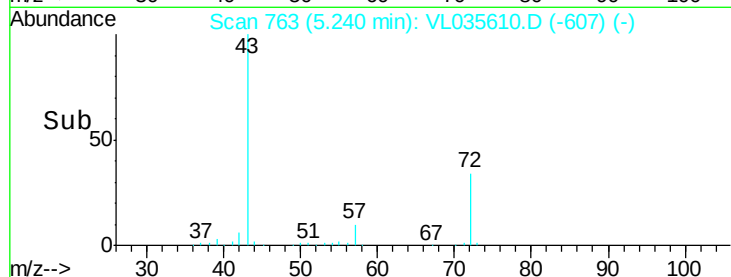
0

5.20

5.25

5.30

Time-->



#36

Benzene

Concen: 0.184 ppbv m

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL035610.D

Acq: 14 Sep 2020 22:17

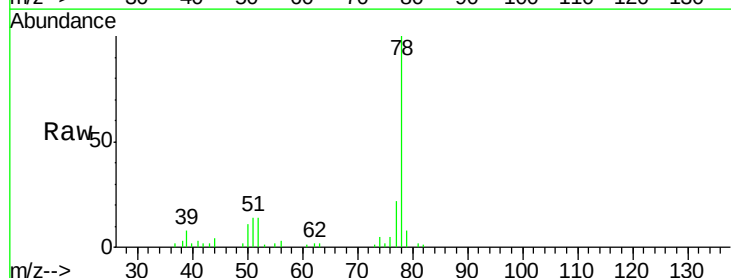
Tgt Ion: 78 Resp: 54687

Ion Ratio Lower Upper

78 100

77 21.8 19.3 28.9

50 11.2 11.0 16.6



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

40000

30000

20000

10000

0

6.80

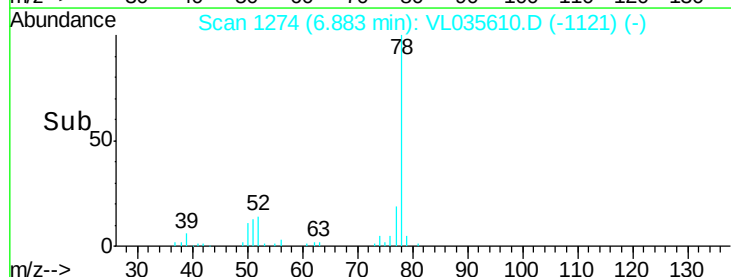
6.85

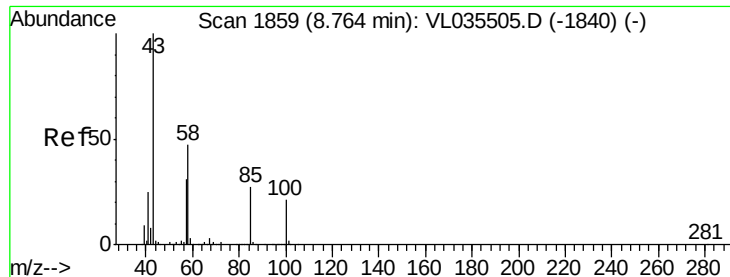
6.90

6.95

7.00

Time-->





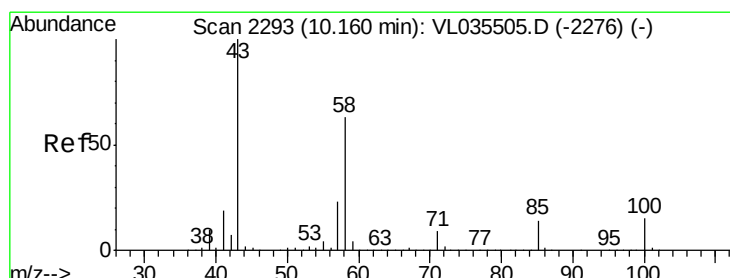
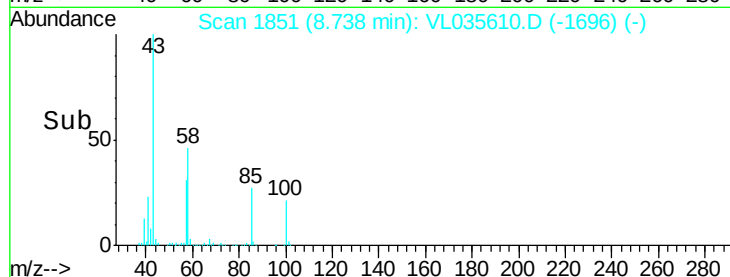
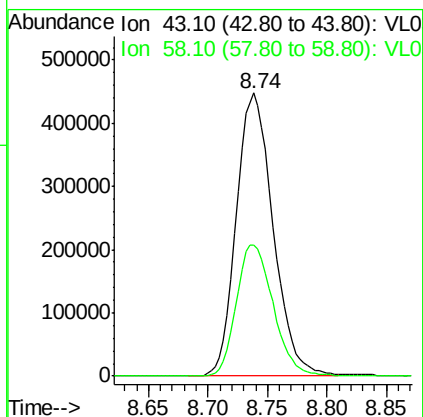
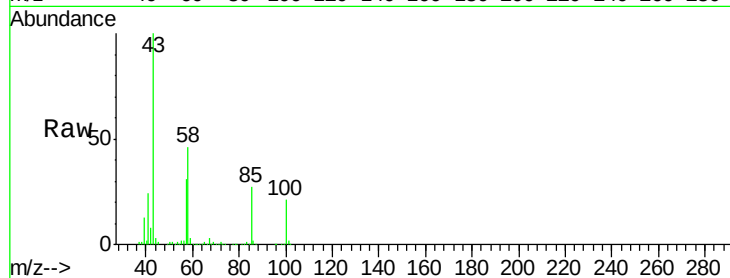
#50
4-Methyl-2-Pentanone
Concen: 4.881 ppbv
RT: 8.74 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Instrument :
MSVOA_L
ClientSampleId :
SV-12DL

Tot Ion: 43 Resp: 961824
Ion Ratio Lower Upper
43 100
58 46.8 37.4 56.0

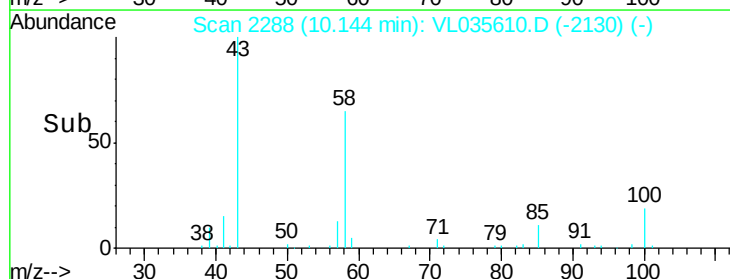
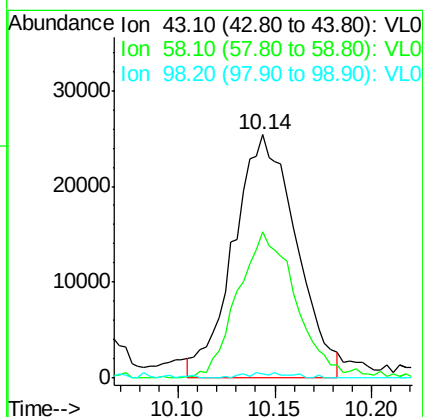
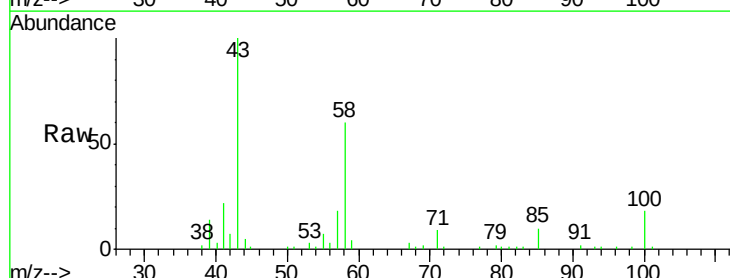
Manual Integrations
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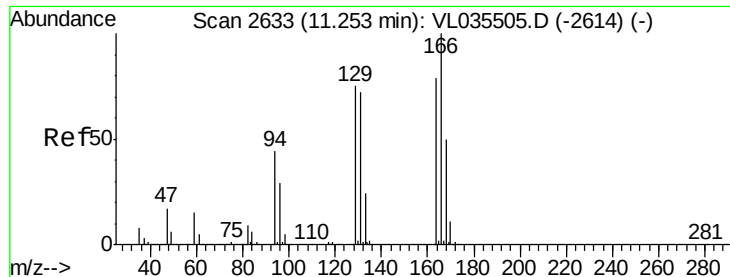
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#51
2-Hexanone
Concen: 0.353 ppbv m
RT: 10.14 min Scan# 2288
Delta R.T. 0.01 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Tgt Ion: 43 Resp: 57030
Ion Ratio Lower Upper
43 100
58 57.2 50.2 75.4
98 1.6 0.4 0.6#





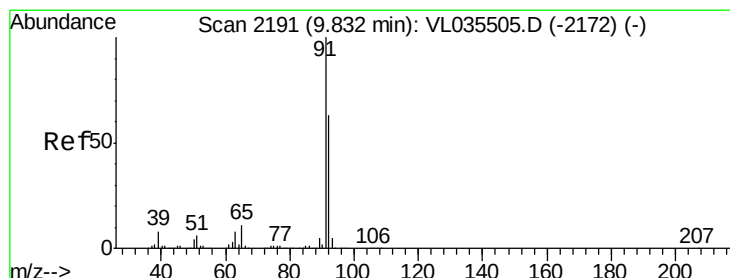
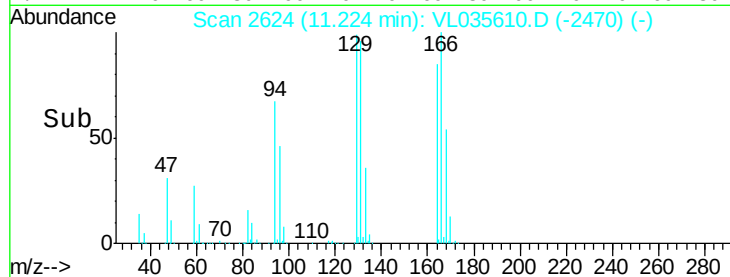
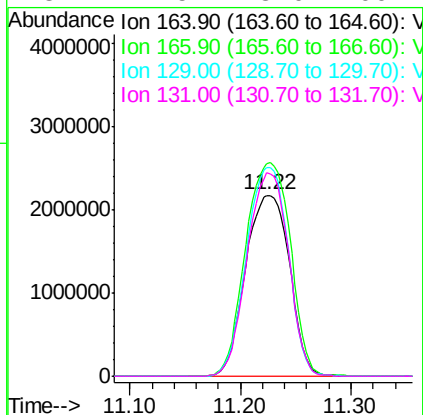
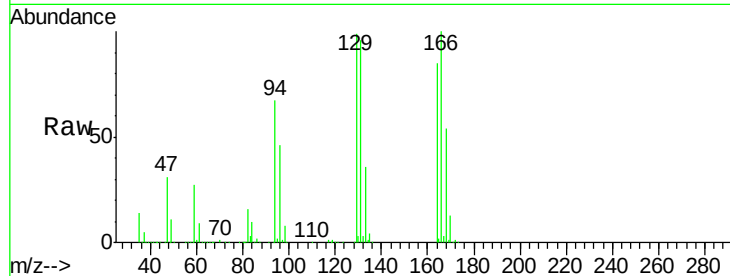
#52
Tetrachloroethene
Concen: 34.774 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Instrument :
MSVOA_L
ClientSampleId :
SV-12DL

Tot Ion:164 Resp: 6029773
Ion Ratio Lower Upper
164 100
166 117.3 100.9 151.3
129 115.6 75.3 112.9#
131 112.5 73.0 109.4#

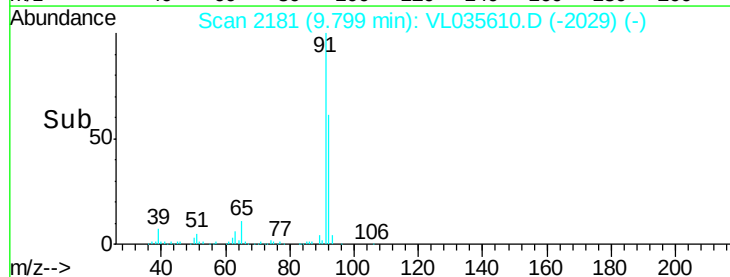
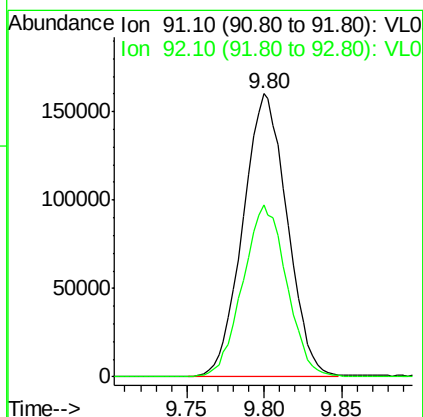
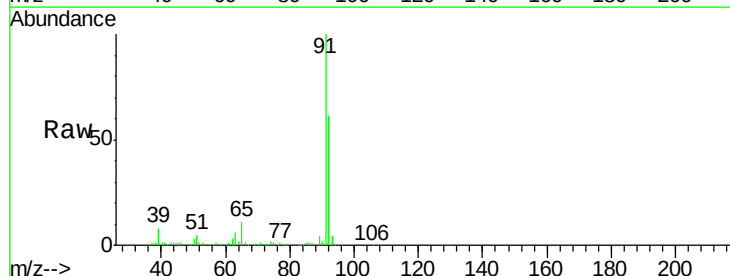
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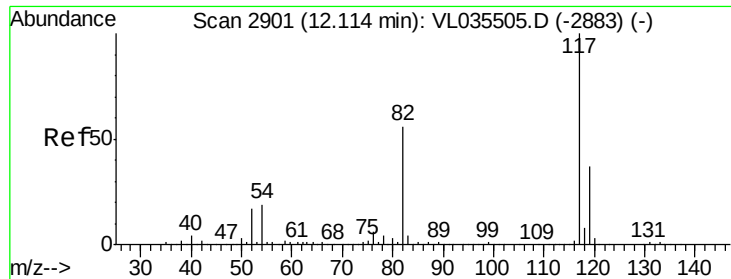
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#53
Toluene
Concen: 0.855 ppbv
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Tgt Ion: 91 Resp: 319189
Ion Ratio Lower Upper
91 100
92 60.1 49.8 74.8





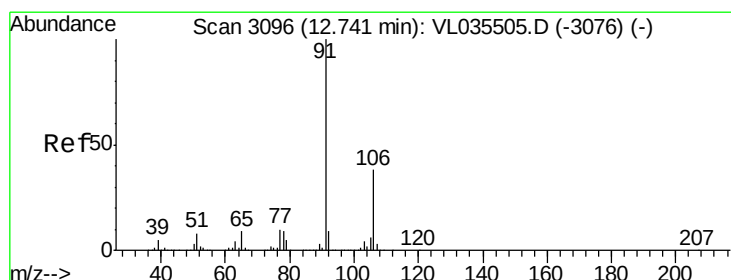
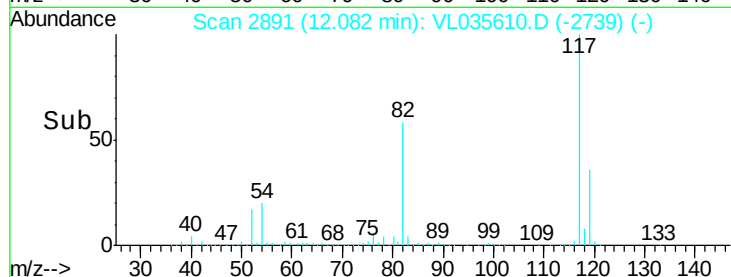
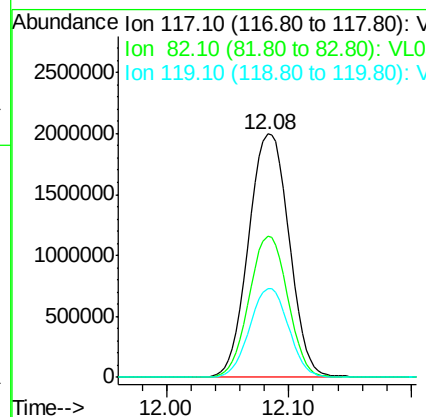
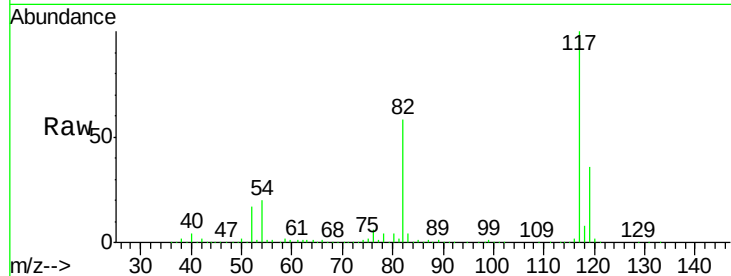
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Instrument :
MSVOA_L
ClientSampled :
SV-12DL

Tot Ion:117 Resp: 4594516
Ion Ratio Lower Upper
117 100
82 55.5 41.6 62.4
119 35.0 29.3 43.9

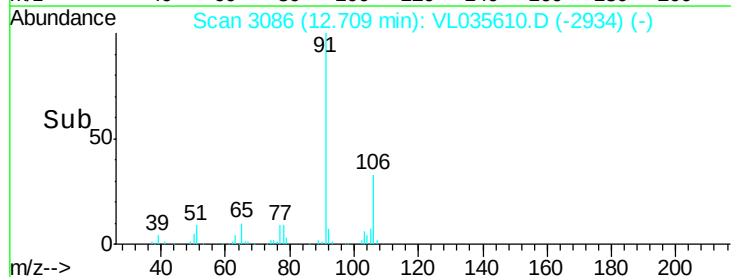
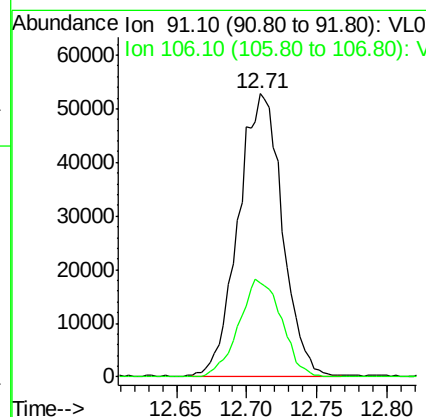
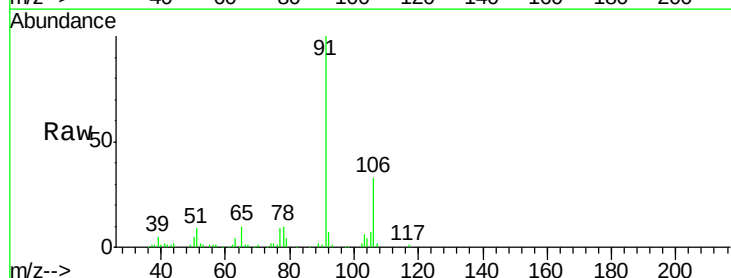
Manual Integrations
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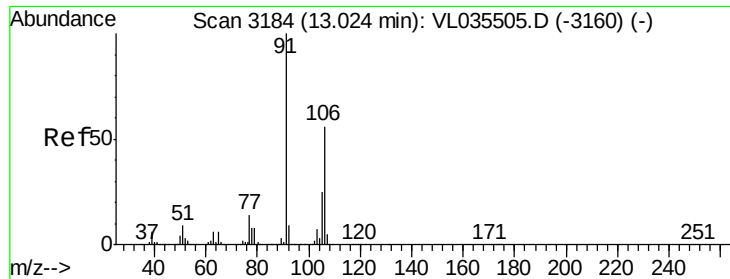
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#58
Ethyl Benzene
Concen: 0.245 ppbv m
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Tgt Ion: 91 Resp: 115866
Ion Ratio Lower Upper
91 100
106 33.4 30.3 45.5





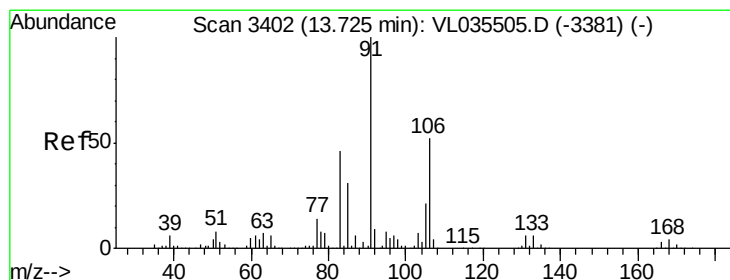
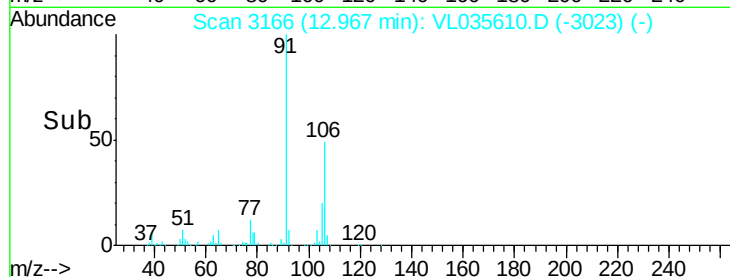
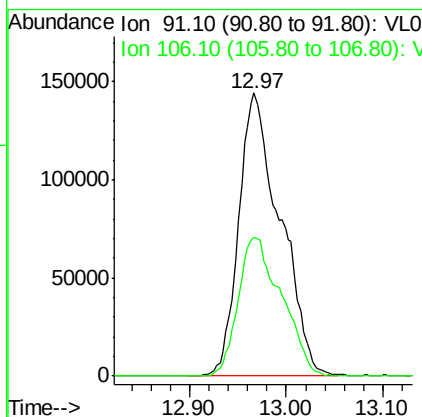
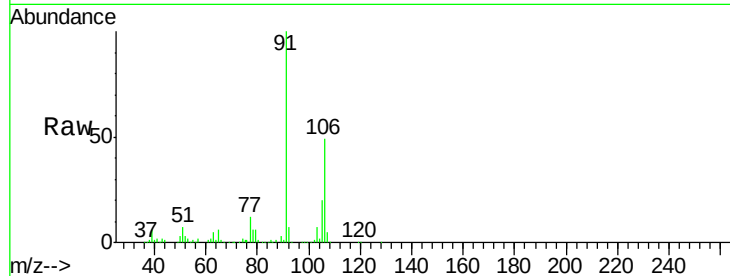
#59
m/p-Xylene
Concen: 1.084 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Instrument :
MSVOA_L
ClientSampleId :
SV-12DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		429236		
106	51.4	43.4	65.2		

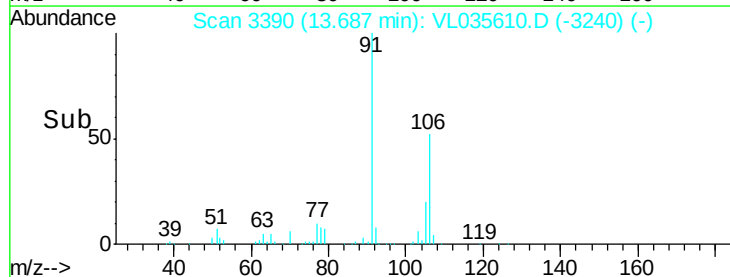
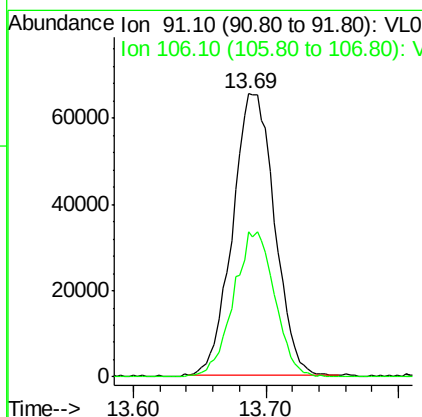
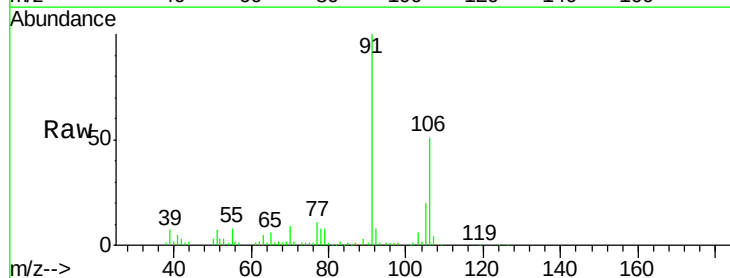
Manual Integrations
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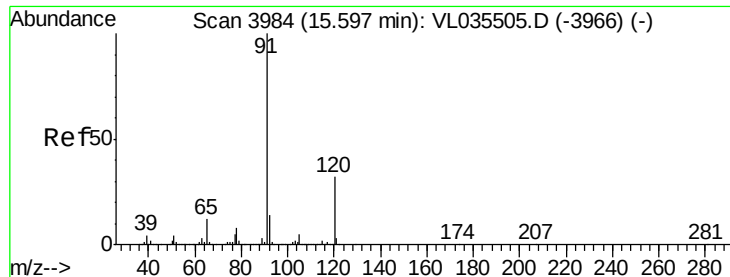
MMDadoda
9/17/2020 5:40:41 PM



#60
o-Xylene
Concen: 0.362 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. -0.02 min
Lab File: VL035610.D
Acq: 14 Sep 2020 22:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		144223		
106	50.8	25.8	77.4		





#64

n-propylbenzene

Concen: 0.103 ppbv

RT: 15.56 min Scan# 3973

Delta R.T. -0.02 min

Lab File: VL035610.D

Acq: 14 Sep 2020 22:17

Instrument :

MSVOA_L

ClientSampleId :

SV-12DL

Tot Ion:120 Resp: 20069

Ion Ratio Lower Upper

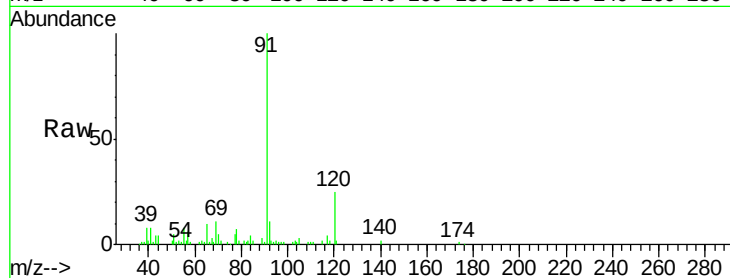
120 100

91 417.6 279.4 419.0

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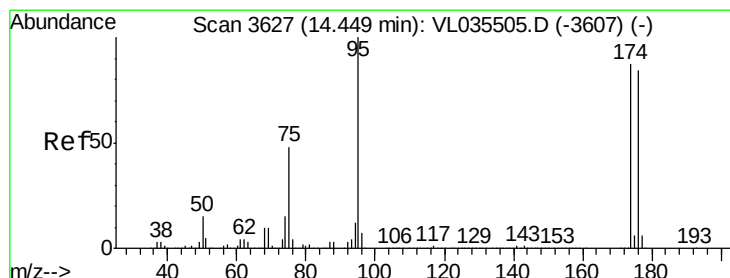
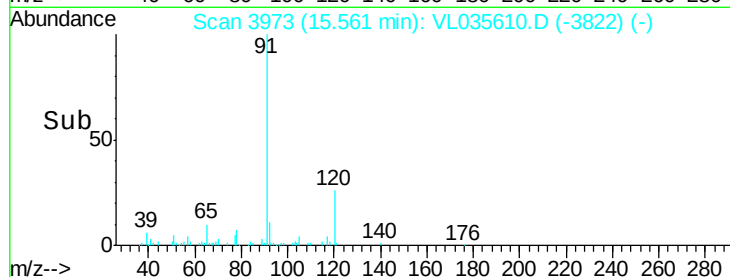
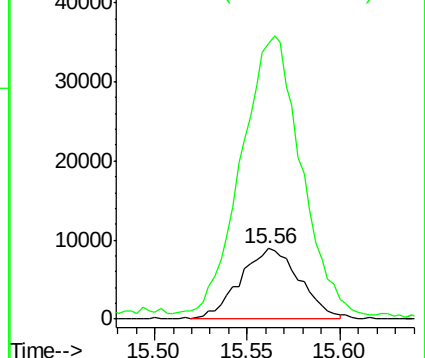
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.609 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL035610.D

Acq: 14 Sep 2020 22:17

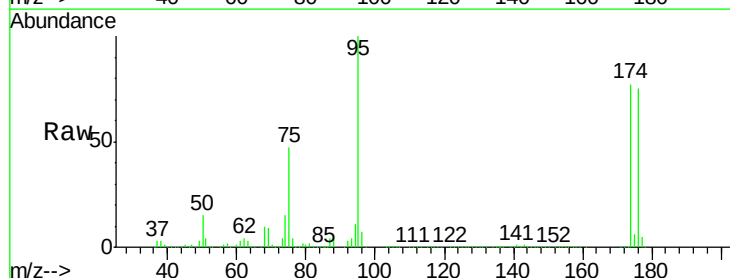
Tgt Ion: 95 Resp: 3461345

Ion Ratio Lower Upper

95 100

174 78.9 69.6 104.4

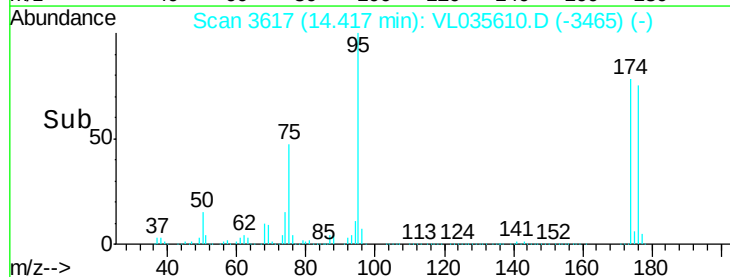
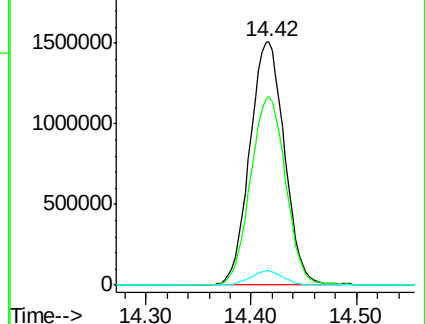
175 5.7 5.1 7.7

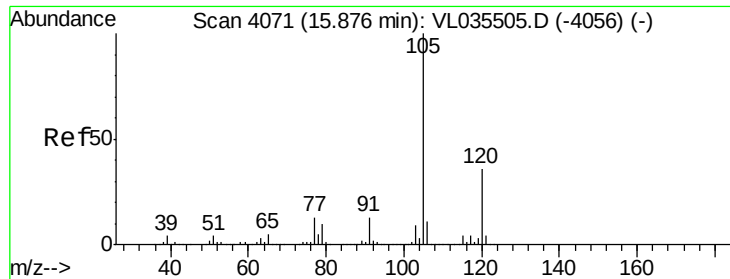


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.216 ppbv

RT: 15.84 min Scan# 4059

Delta R.T. -0.02 min

Lab File: VL035610.D

Acq: 14 Sep 2020 22:17

Instrument :

MSVOA_L

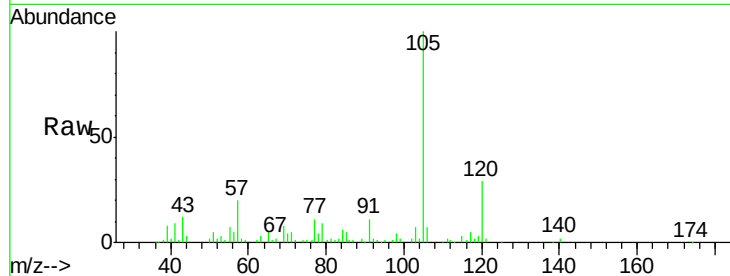
ClientSampleId :

SV-12DL

Tot Ion	Ratio	Resp	Lower	Upper
105	100	109267		
120	29.8		27.4	41.2
91	11.5		9.7	14.5
77	13.0		9.6	14.4

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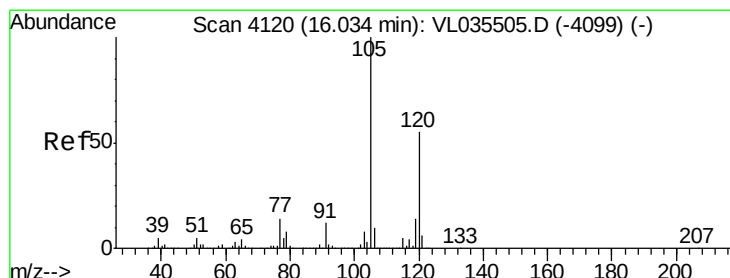
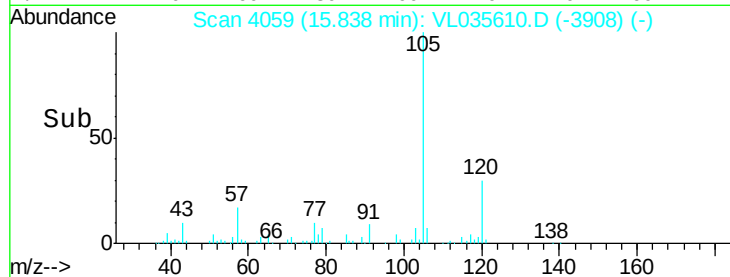
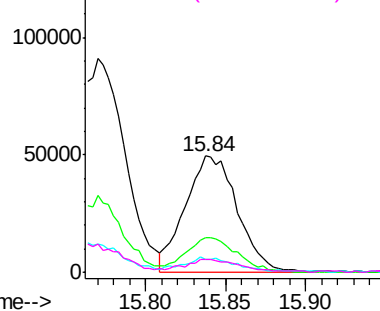


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.105 ppbv

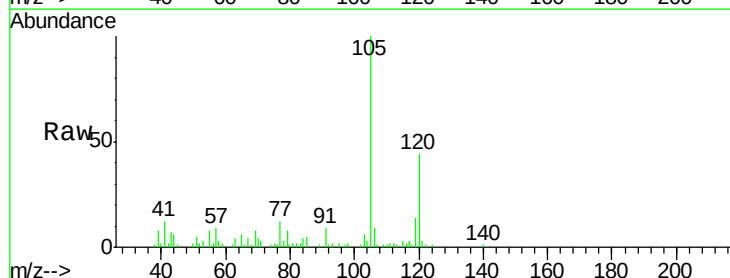
RT: 16.00 min Scan# 4109

Delta R.T. -0.02 min

Lab File: VL035610.D

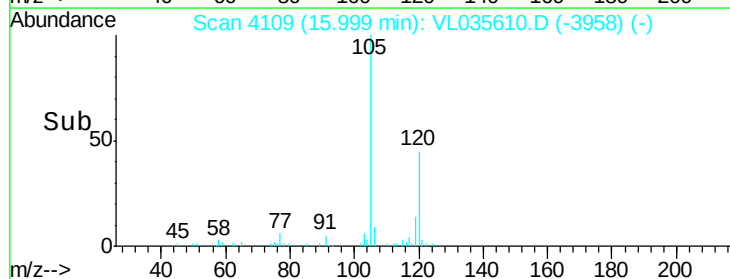
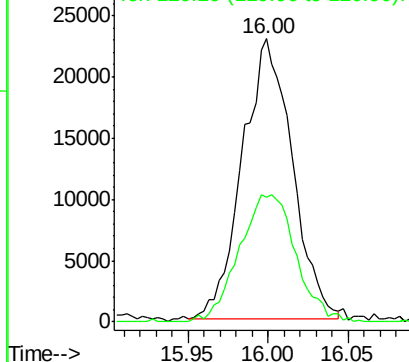
Acq: 14 Sep 2020 22:17

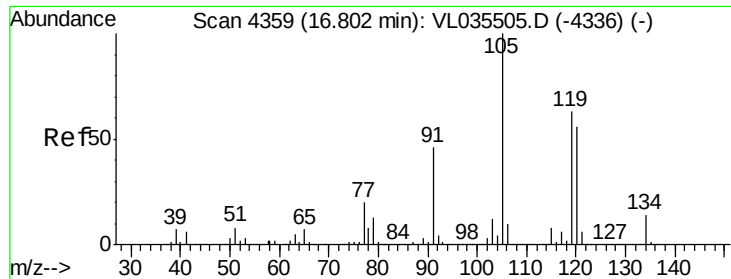
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	49041		
120	44.5		44.2	66.2



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: 0.458 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.02 min
 Lab File: VL035610.D
 Acq: 14 Sep 2020 22:17

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12DL

Tot Ion:	105	Resp:	235864
Ion Ratio		Lower	Upper
105	100		
120	45.1	44.4	66.6
91	10.2	37.1	55.7#
77	11.4	16.0	24.0#

Manual Integrations
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