

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035609.D
 Acq On : 14 Sep 2020 21:39
 Operator : SY/AP
 Sample : L3983-04 20X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12

Manual Integrations
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 9/17/2020 5:40:37 PM

Quant Time: Sep 15 07:38:57 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	997504	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4280908	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4315377	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3258640	10.63	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	7747m	0.131	ppbv	
9) Propene	3.00	41	498701	11.726	ppbv	94
10) Heptane	8.12	43	37155	0.325	ppbv	100
13) Ethanol	3.59	45	47186m	4.475	ppbv	
15) Acetone	3.84	43	2615010	23.770	ppbv	95
17) tert-Butyl alcohol	4.29	59	114345	0.854	ppbv	98
19) Isopropyl Alcohol	3.96	45	35095	0.535	ppbv #	93
20) Methylene Chloride	4.33	84	41688	0.509	ppbv	92
26) Hexane	5.67	57	64645	0.587	ppbv #	51
27) Carbon Disulfide	4.54	76	50809	0.322	ppbv	98
30) Cyclohexane	7.12	84	15504	0.131	ppbv #	20
34) 2-Butanone	5.24	43	323071	2.543	ppbv	99
36) Benzene	6.88	78	94227	0.340	ppbv #	94
38) Trichloroethene	7.83	130	58890	0.366	ppbv	98
50) 4-Methyl-2-Pentanone	8.73	43	1709616	9.293	ppbv	100
51) 2-Hexanone	10.14	43	102608	0.680	ppbv #	100
52) Tetrachloroethene	11.23	164	7975691m	49.267	ppbv	
53) Toluene	9.81	91	590573	1.695	ppbv	98
58) Ethyl Benzene	12.71	91	221759	0.498	ppbv	93
59) m/p-Xylene	12.97	91	793113	2.133	ppbv	96
60) o-Xylene	13.70	91	265787	0.710	ppbv	96
64) n-propylbenzene	15.57	120	35290m	0.192	ppbv	
72) 4-Ethyltoluene	15.84	105	194601	0.409	ppbv	95
73) 1,3,5-Trimethylbenzene	16.00	105	90676	0.206	ppbv	92
74) 1,2,4-Trimethylbenzene	16.77	105	428009	0.885	ppbv #	71

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

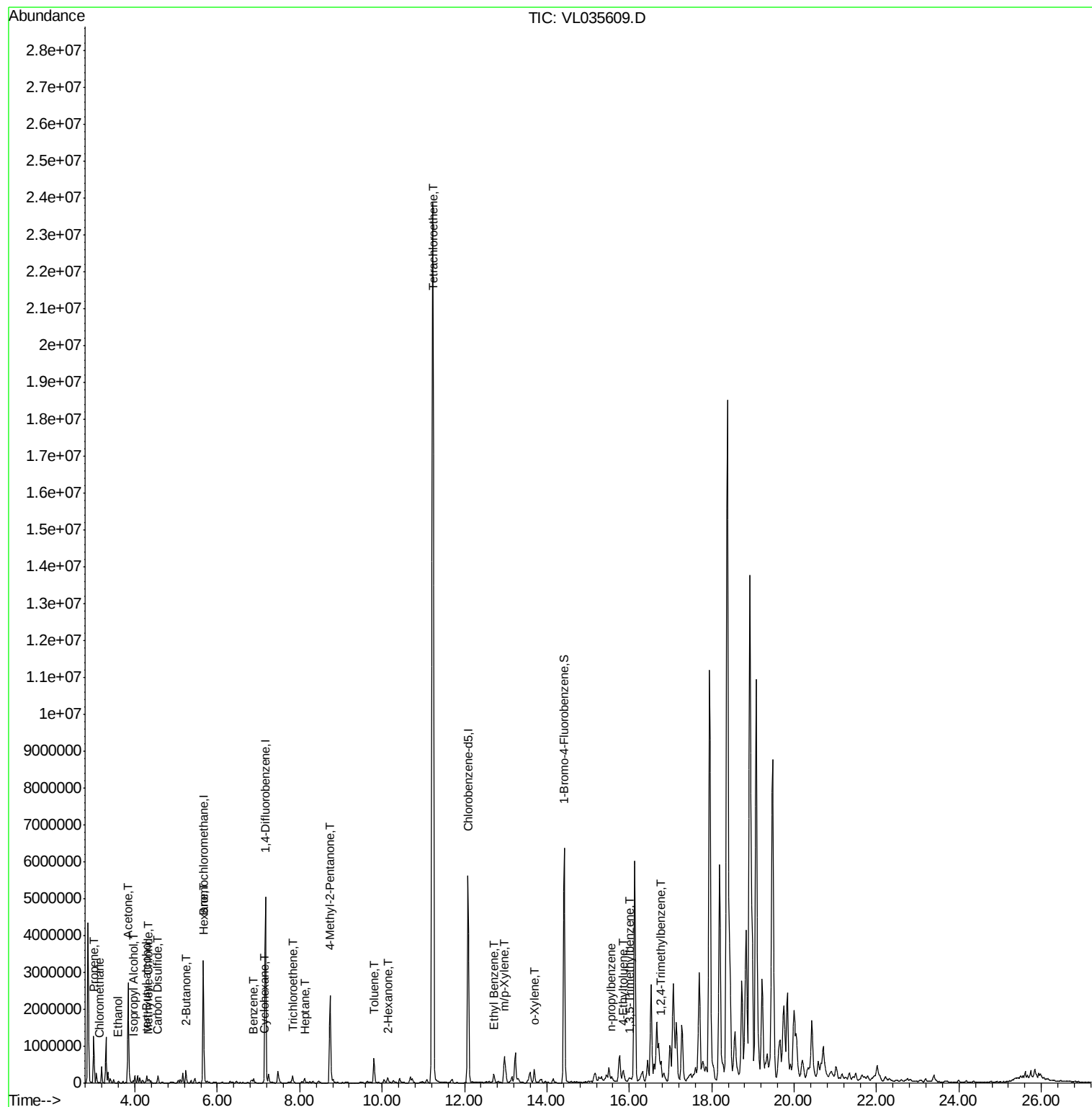
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Instrument :

MSVOA_L

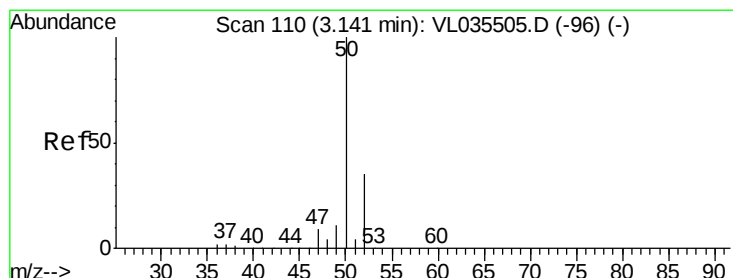
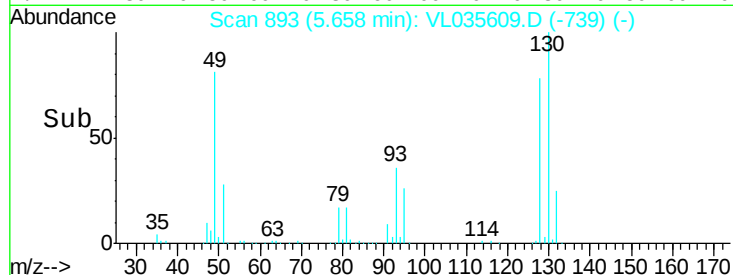
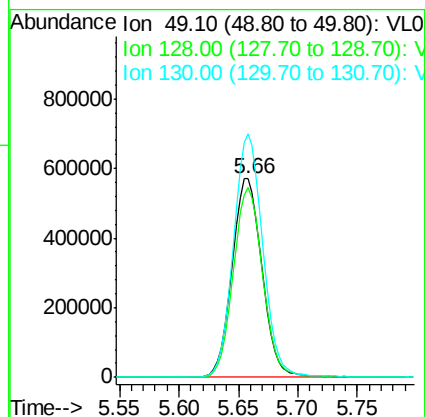
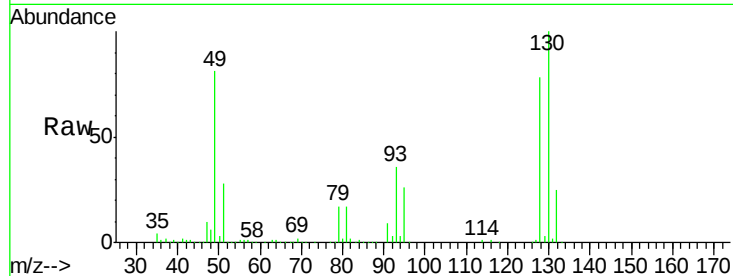
ClientSampled :

SV-12

Tot Ion: 49 Resp: 997504
 Ion Ratio Lower Upper
 49 100
 128 94.2 50.0 150.1
 130 120.2 64.4 193.2

Manual Integrations
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#4

Chloromethane

Concen: 0.131 ppbv m

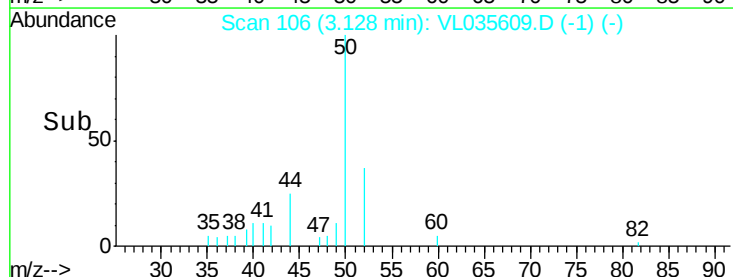
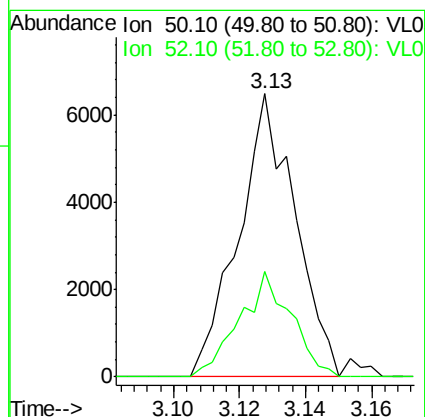
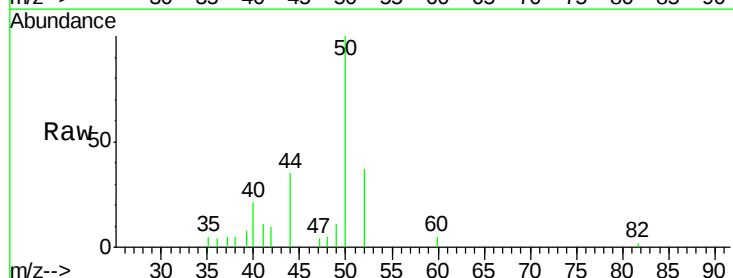
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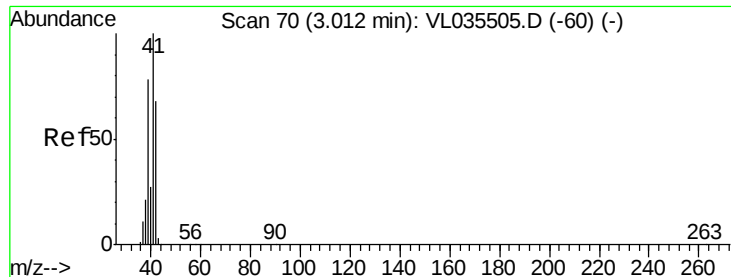
Delta R.T. -0.00 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Tgt Ion: 50 Resp: 7747
 Ion Ratio Lower Upper
 50 100
 52 37.1 27.7 41.5





#9

Propene

Concen: 11.726 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Instrument :

MSVOA_L

ClientSampled :

SV-12

Tot Ion: 41 Resp: 498701

Ion Ratio Lower Upper

41 100

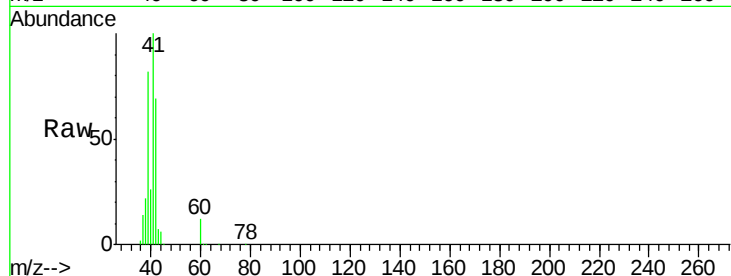
42 65.4 56.3 84.5

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

400000

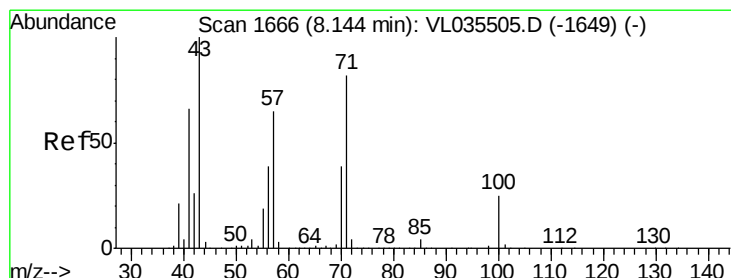
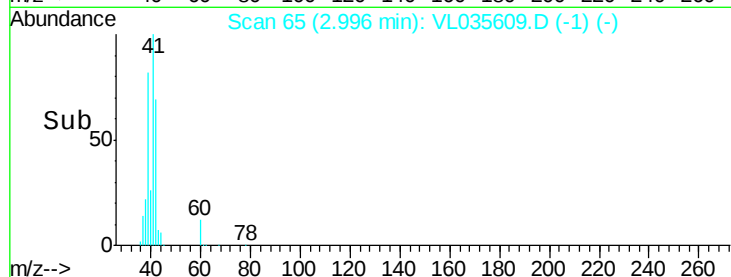
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 0.325 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL035609.D

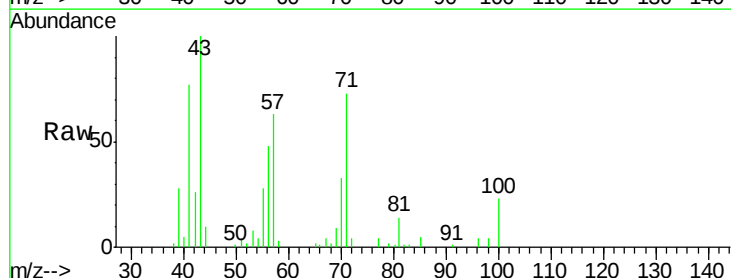
Acq: 14 Sep 2020 21:39

Tgt Ion: 43 Resp: 37155

Ion Ratio Lower Upper

43 100

57 64.4 51.4 77.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.12

20000

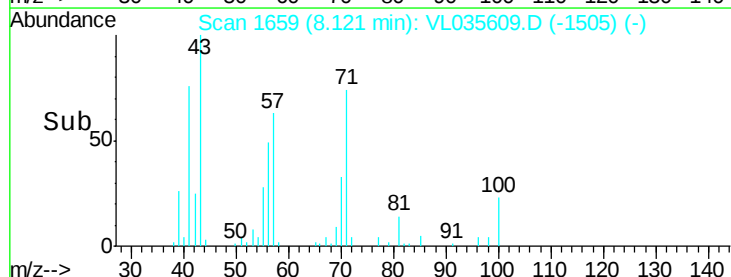
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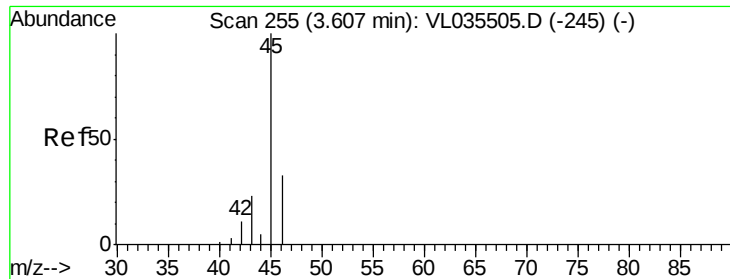
10000

5000

0

Time-->





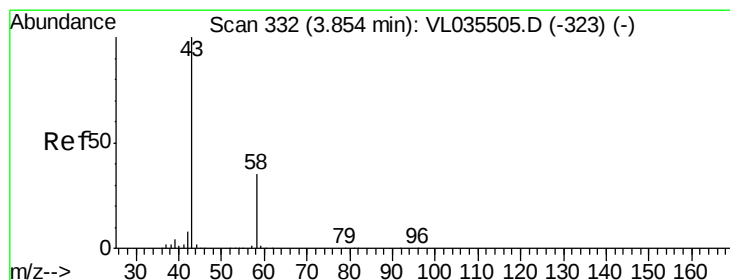
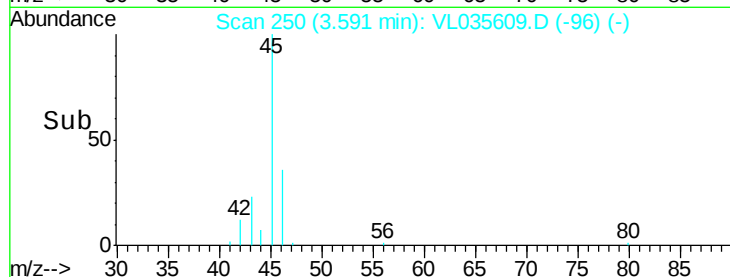
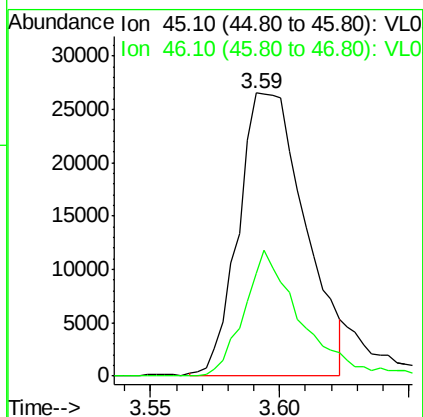
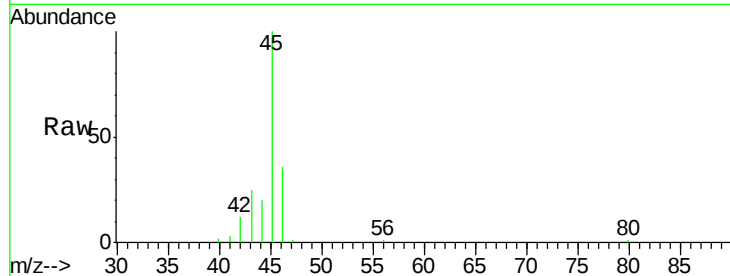
#13
Ethanol
Concen: 4.475 ppbv m
RT: 3.59 min Scan# 250
Delta R.T. -0.01 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Instrument :
MSVOA_L
ClientSampleId :
SV-12

Tot Ion: 45 Resp: 47186
Ion Ratio Lower Upper
45 100
46 39.0 15.2 60.6

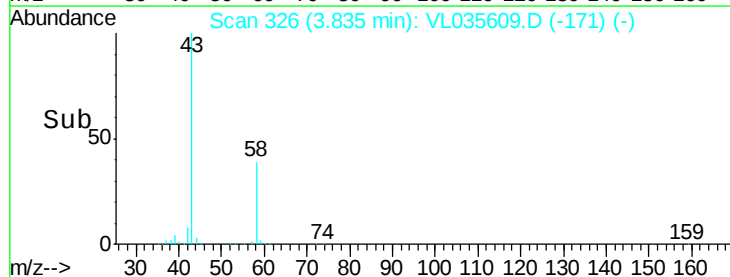
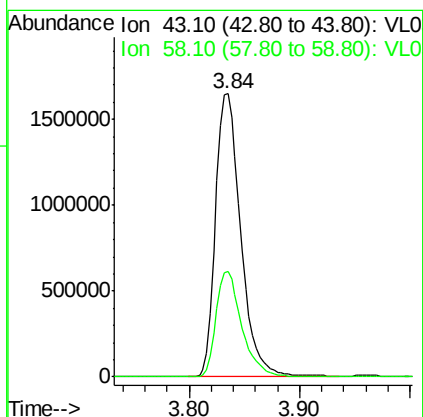
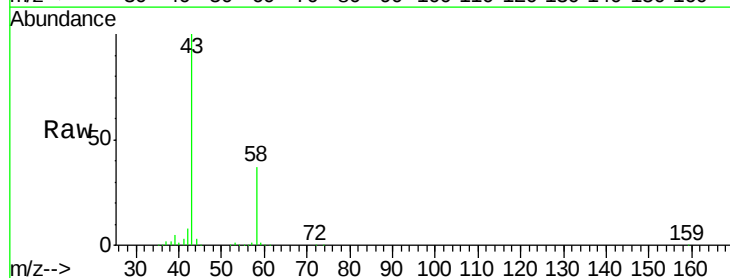
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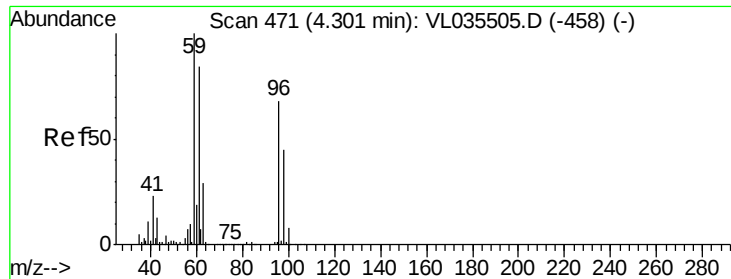
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#15
Acetone
Concen: 23.770 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Tgt Ion: 43 Resp: 2615010
Ion Ratio Lower Upper
43 100
58 38.4 28.4 42.6





#17

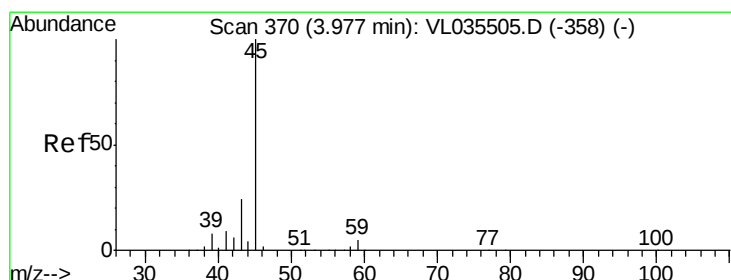
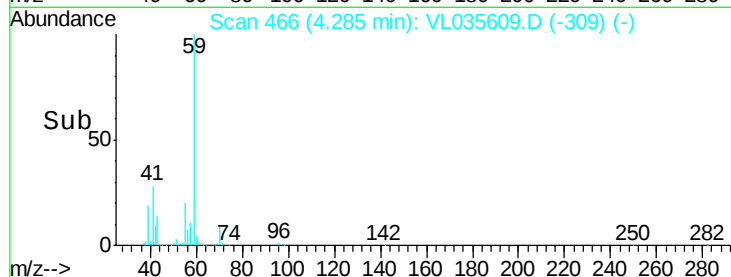
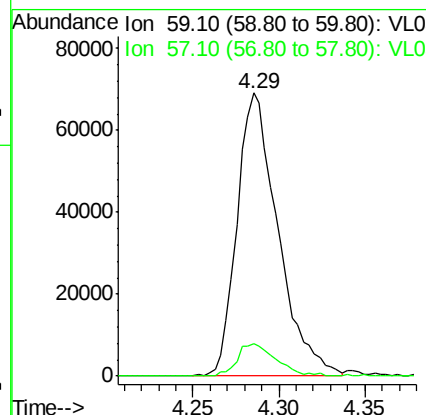
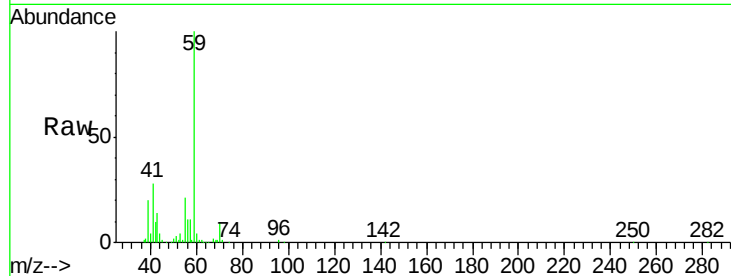
tert-Butyl alcohol
 Concen: 0.854 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VL035609.D
 Acq: 14 Sep 2020 21:39

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12

Tot Ion	59	Resp	114345
Ion Ratio	100	Lower	Upper
57	11.1	8.4	12.6

Manual Integrations
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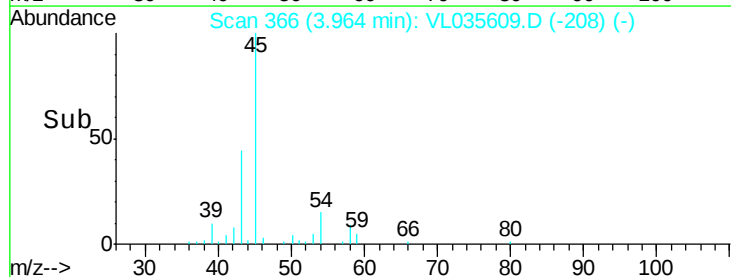
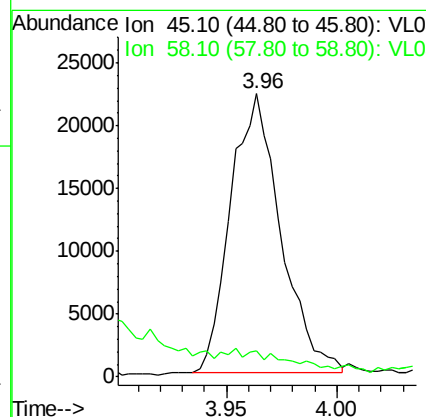
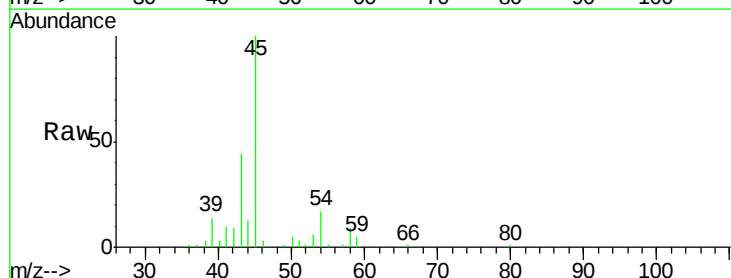
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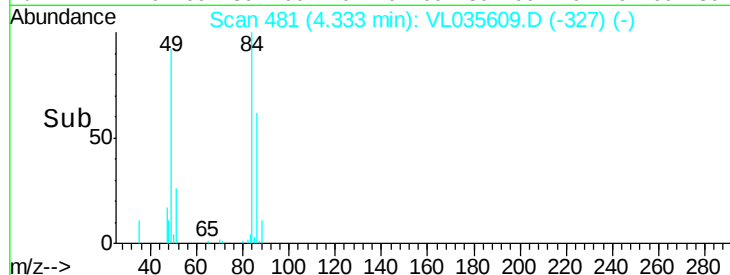
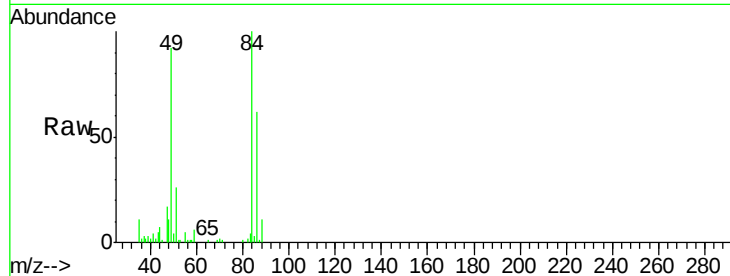
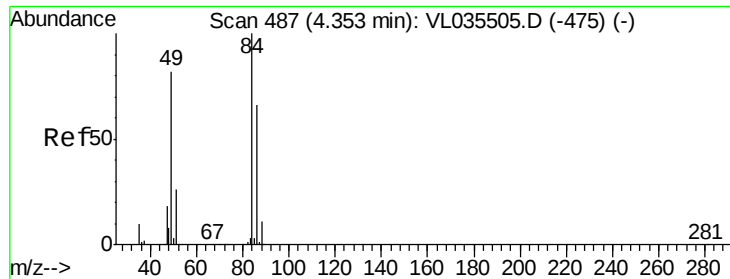


#19

Isopropyl Alcohol
 Concen: 0.535 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL035609.D
 Acq: 14 Sep 2020 21:39

Tgt Ion	45	Resp	35095
Ion Ratio	100	Lower	Upper
58	0.0	2.0	3.0#





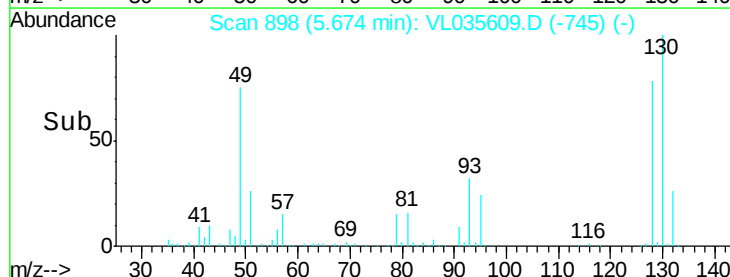
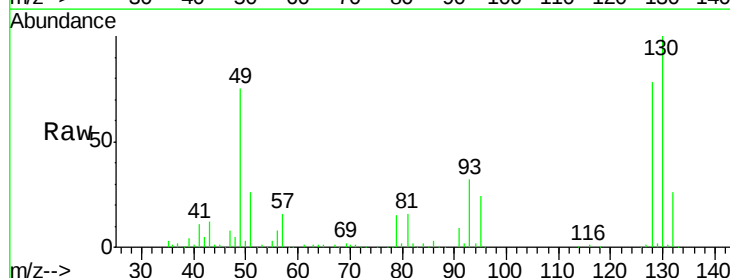
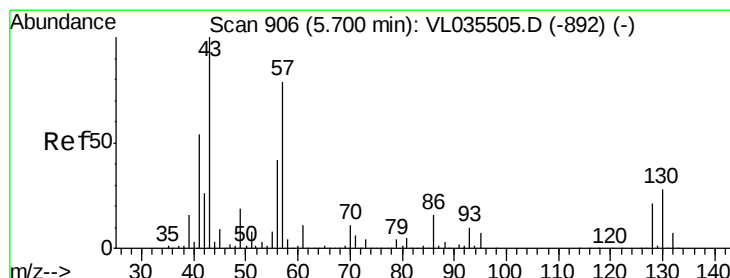
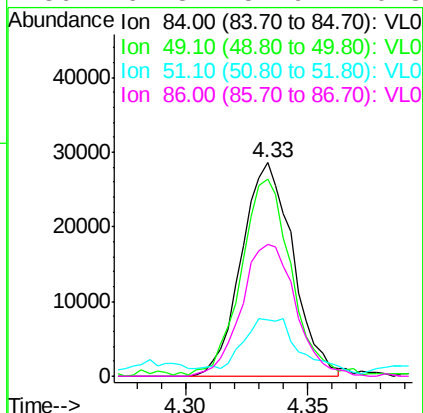
#20
Methvlene Chloride
Concen: 0.509 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.00 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Tot Ion:	84	Resp:	41688
Ion Ratio	Lower	Upper	
84	100		
49	91.3	65.4	98.0
51	22.4	21.5	32.3
86	61.8	52.9	79.3

Instrument :
MSVOA_L
ClientSampleId :
SV-12

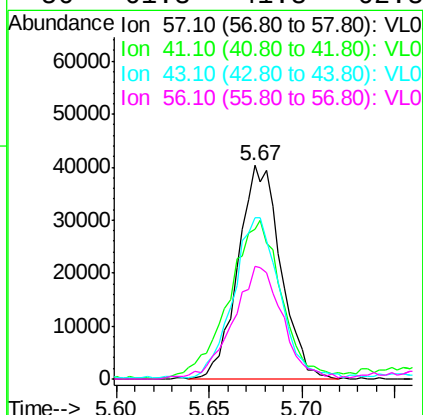
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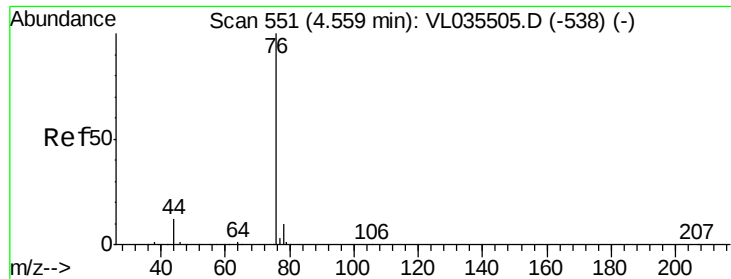
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#26
Hexane
Concen: 0.587 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Tgt Ion:	57	Resp:	64645
Ion Ratio	Lower	Upper	
57	100		
41	93.0	55.9	83.9#
43	82.0	141.8	212.8#
56	61.3	41.8	62.8





#27

Carbon Disulfide

Concen: 0.322 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.00 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Instrument :

MSVOA_L

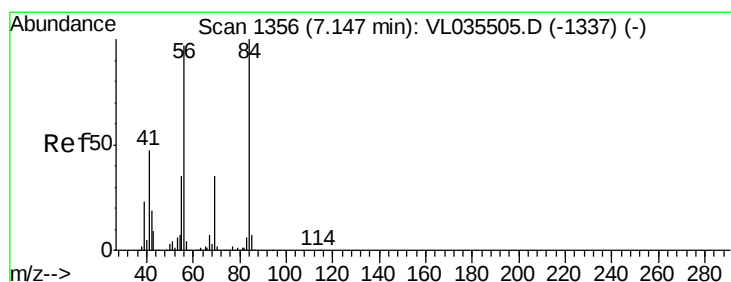
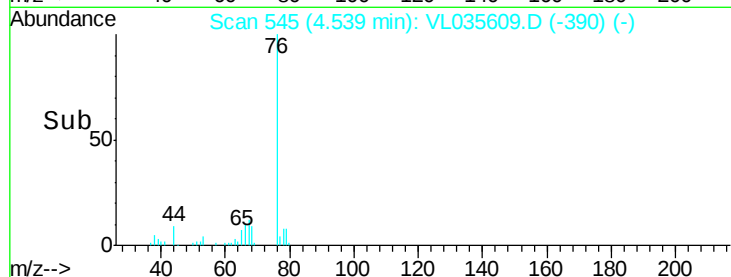
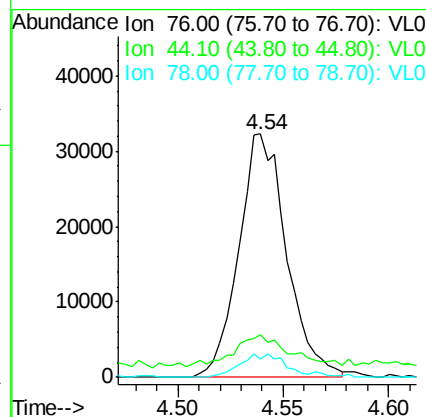
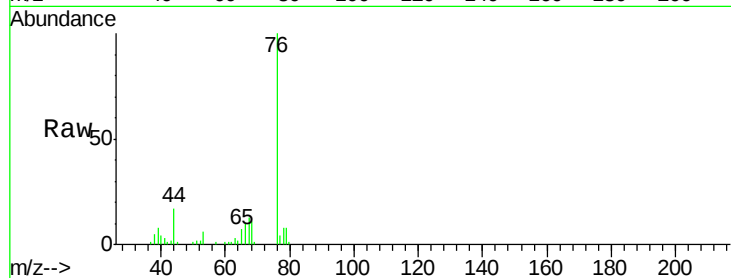
ClientSampleId :

SV-12

Tot Ion:	76	Resp:	50809
Ion	Ratio	Lower	Upper
76	100		
44	12.8	9.3	13.9
78	9.9	7.8	11.6

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#30

Cyclohexane

Concen: 0.131 ppbv

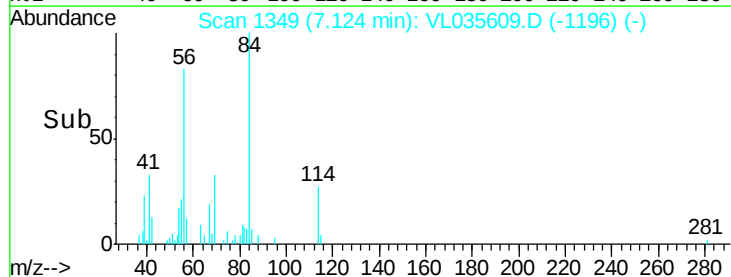
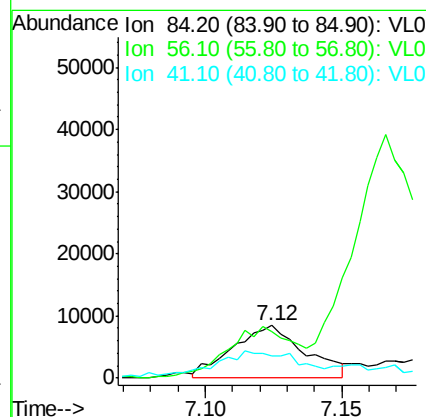
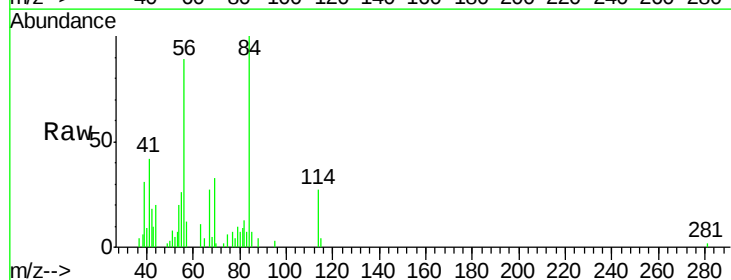
RT: 7.12 min Scan# 1349

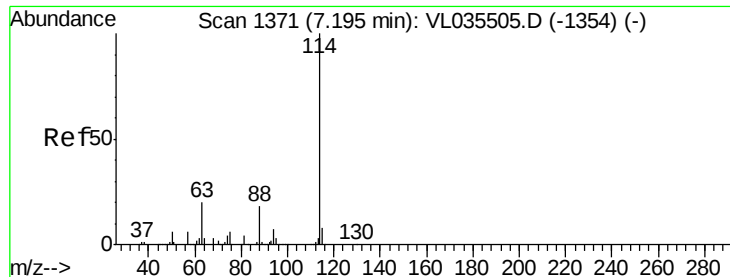
Delta R.T. -0.01 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Tgt Ion:	84	Resp:	15504
Ion	Ratio	Lower	Upper
84	100		
56	0.0	80.1	120.1#
41	73.9	38.1	57.1#





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: VL035609.D
 Acq: 14 Sep 2020 21:39

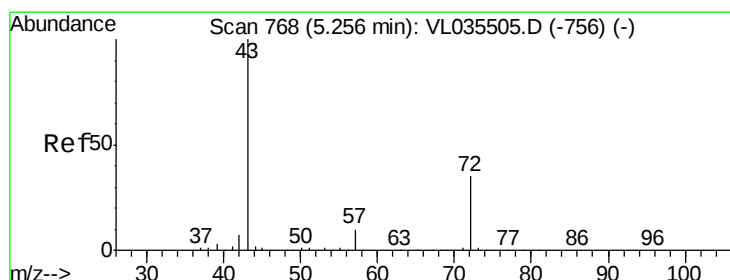
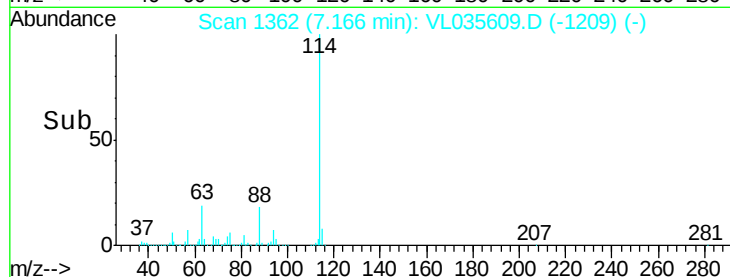
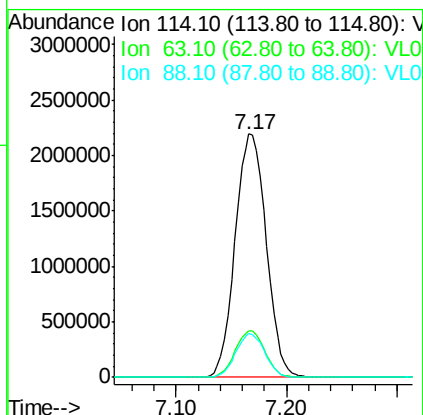
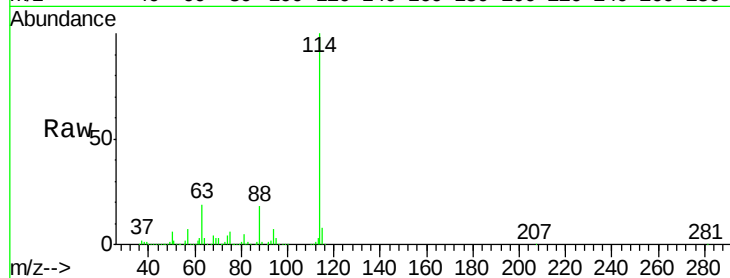
Instrument :
 MSVOA_L
 ClientSampled :
 SV-12

Tot Ion:114 Resp: 4280908

Ion	Ratio	Lower	Upper
114	100		
63	18.4	14.7	22.1
88	17.0	13.4	20.2

Manual Integrations
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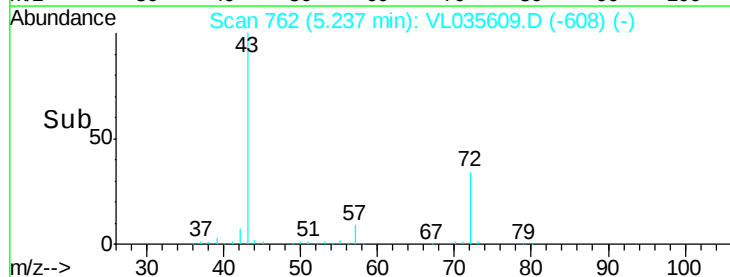
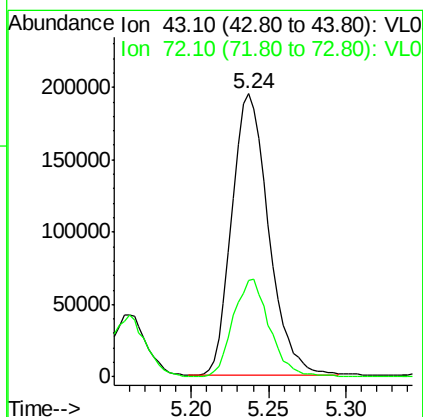
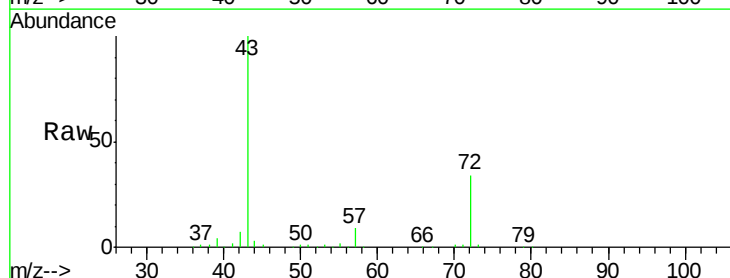
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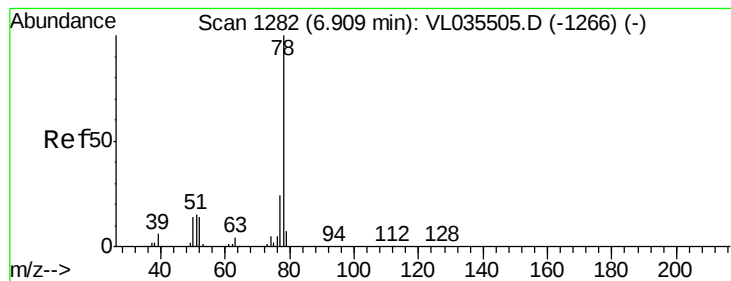


#34
 2-Butanone
 Concen: 2.543 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: VL035609.D
 Acq: 14 Sep 2020 21:39

Tgt Ion: 43 Resp: 323071

Ion	Ratio	Lower	Upper
43	100		
72	33.9	27.7	41.5





#36

Benzene

Concen: 0.340 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Instrument :

MSVOA_L

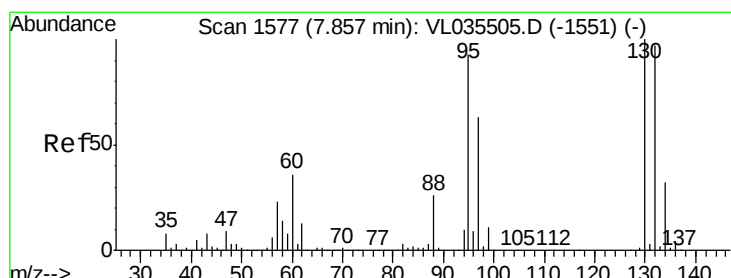
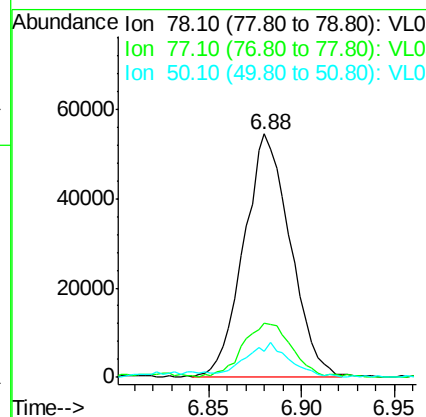
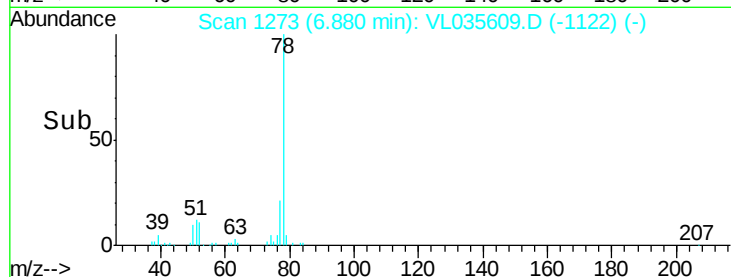
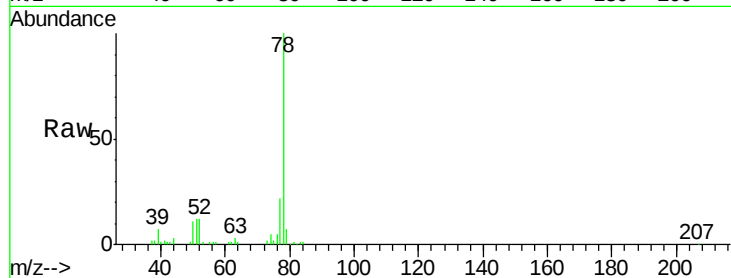
ClientSampleId :

SV-12

Tot Ion:	78	Resp:	94227
Ion	Ratio	Lower	Upper
78	100		
77	21.7	19.3	28.9
50	10.7	11.0	16.6#

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#38

Trichloroethene

Concen: 0.366 ppbv

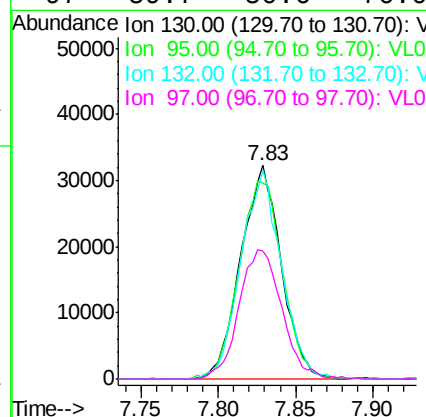
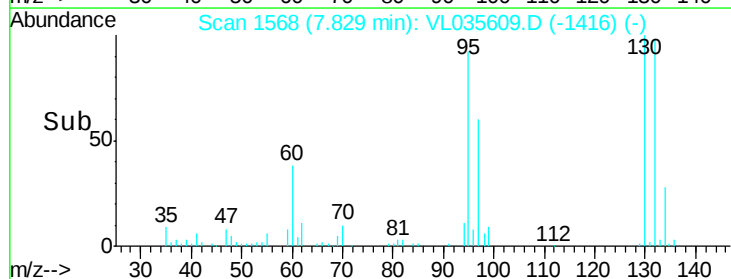
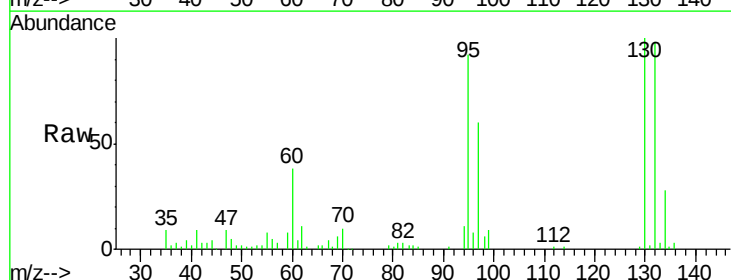
RT: 7.83 min Scan# 1568

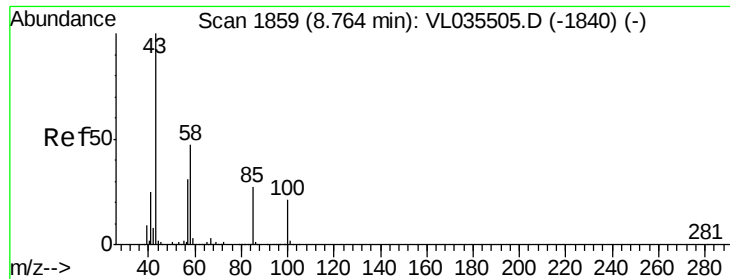
Delta R.T. -0.01 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Tgt Ion:	130	Resp:	58890
Ion	Ratio	Lower	Upper
130	100		
95	91.0	74.6	112.0
132	97.9	77.6	116.4
97	59.7	50.6	76.0





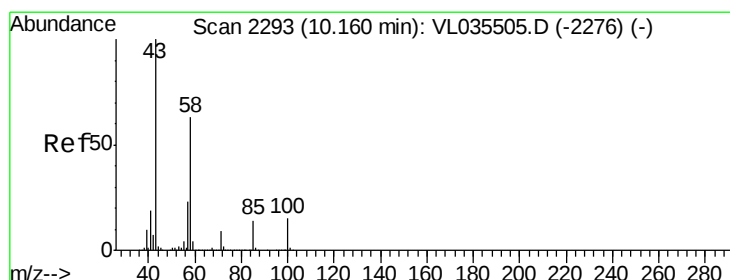
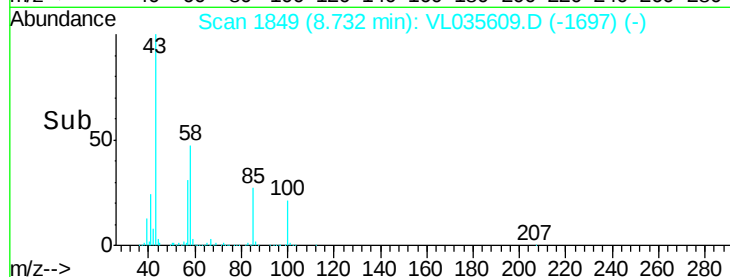
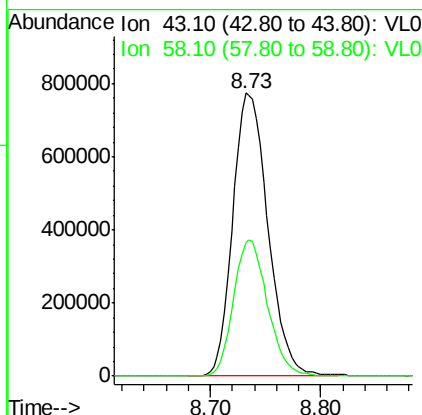
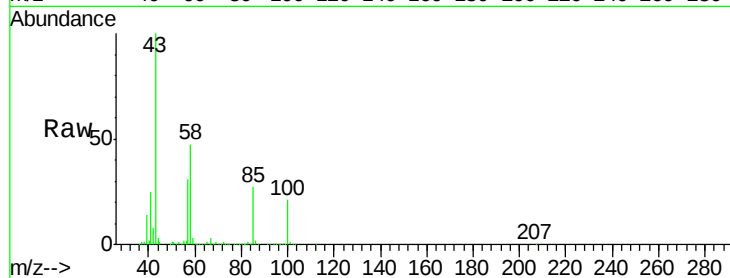
#50
4-Methyl-2-Pentanone
Concen: 9.293 ppbv
RT: 8.73 min Scan# 1849
Delta R.T. -0.01 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion: 43 Resp: 1709616
Ion Ratio Lower Upper
43 100
58 46.8 37.4 56.0

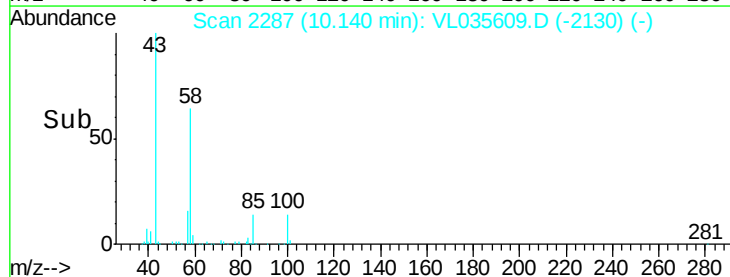
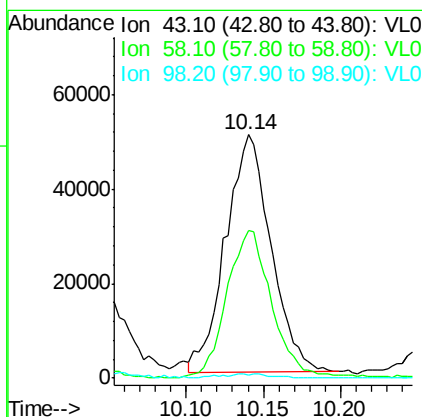
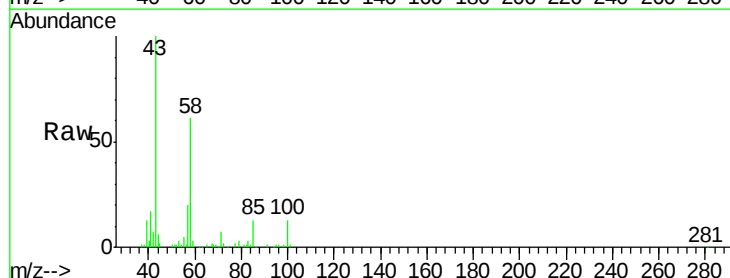
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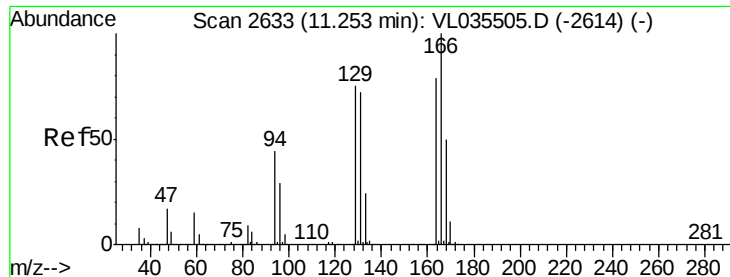
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#51
2-Hexanone
Concen: 0.680 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Tgt Ion: 43 Resp: 102608
Ion Ratio Lower Upper
43 100
58 62.6 50.2 75.4
98 1.8 0.4 0.6#





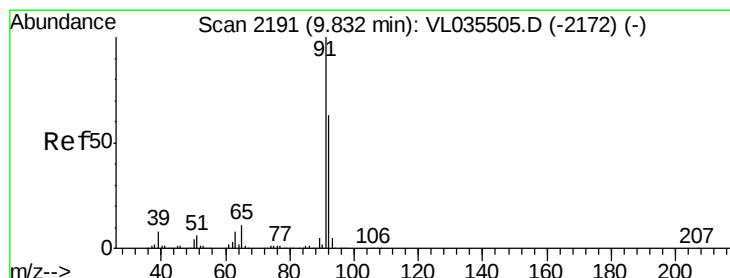
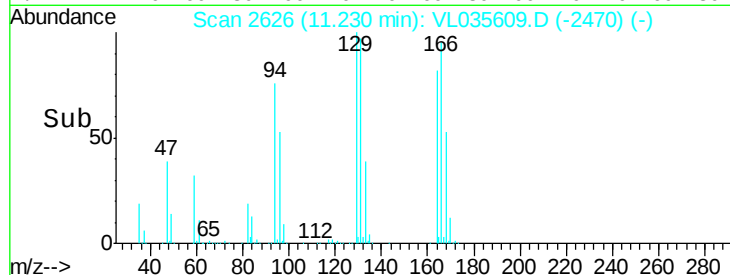
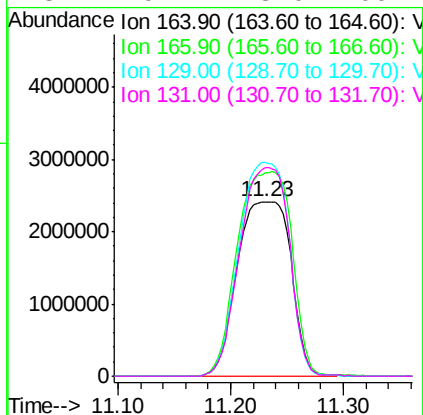
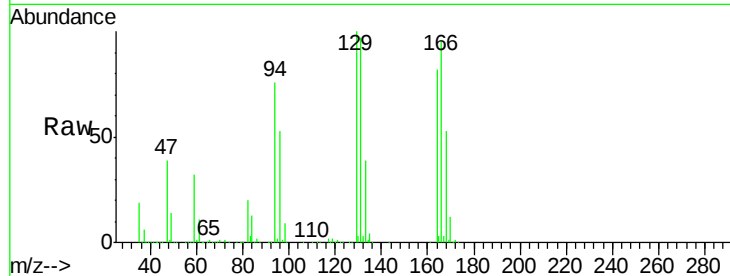
#52
Tetrachloroethene
Concen: 49.267 ppbv m
RT: 11.23 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion:164 Resp: 7975691
Ion Ratio Lower Upper
164 100
166 116.2 100.9 151.3
129 122.3 75.3 112.9#
131 119.2 73.0 109.4#

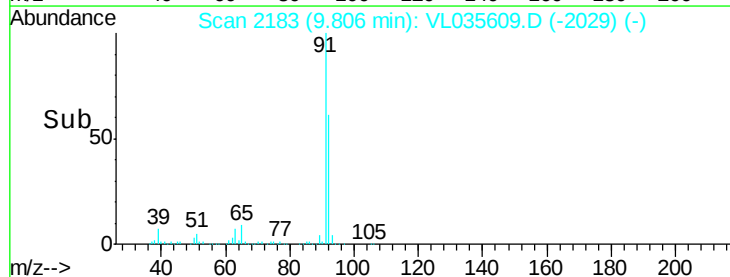
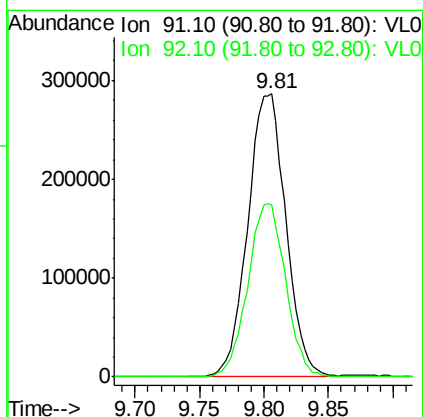
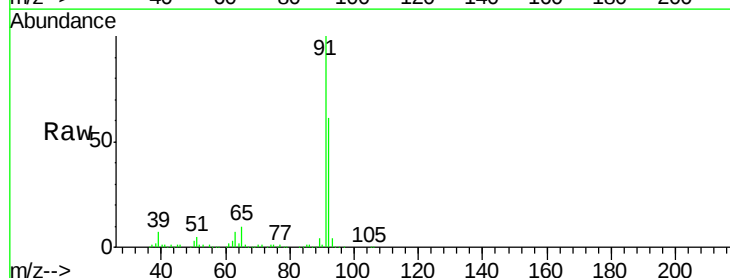
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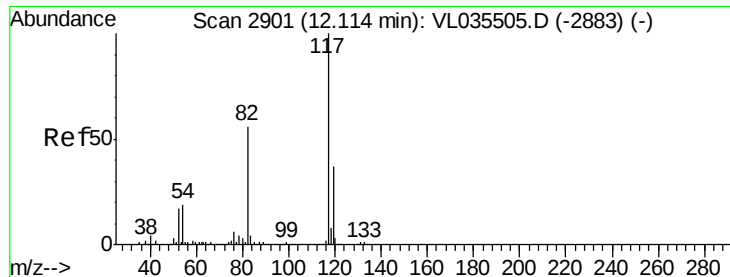
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#53
Toluene
Concen: 1.695 ppbv
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Tgt Ion: 91 Resp: 590573
Ion Ratio Lower Upper
91 100
92 60.7 49.8 74.8





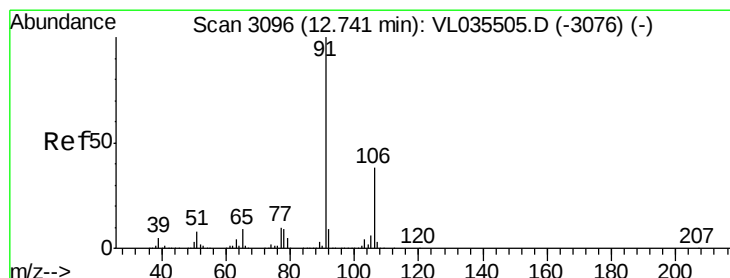
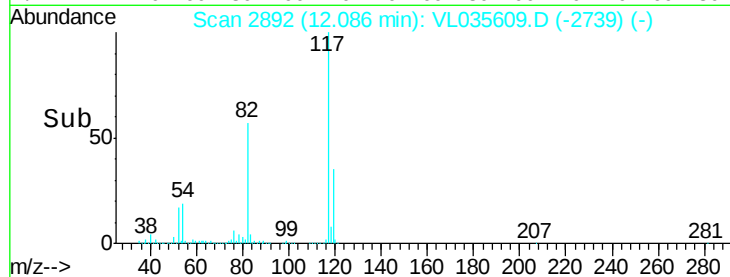
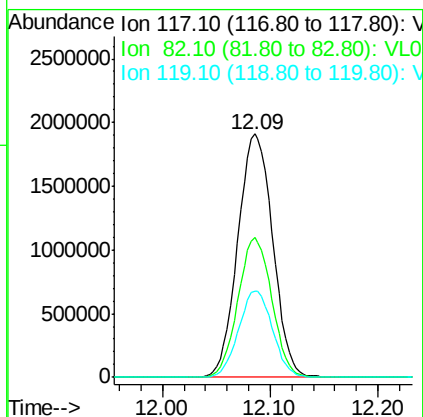
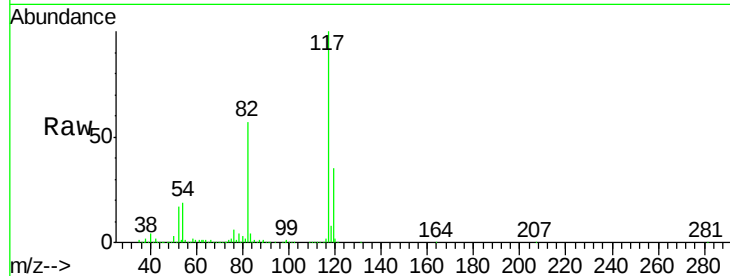
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	41.6	62.4
119	34.6	29.3	43.9

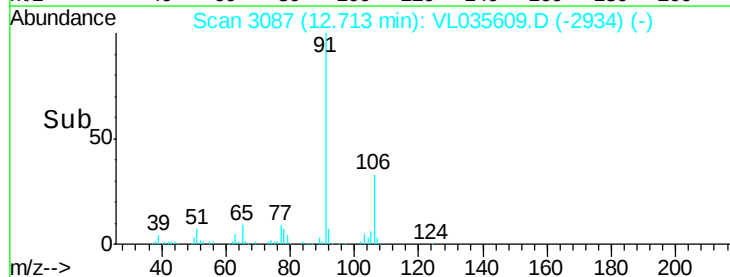
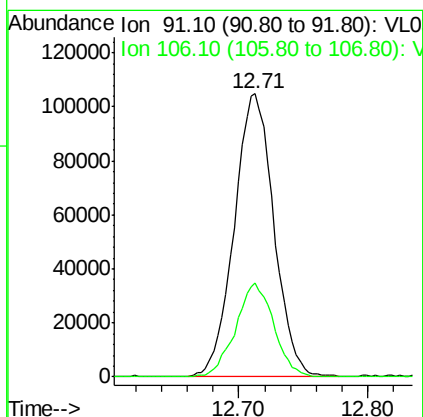
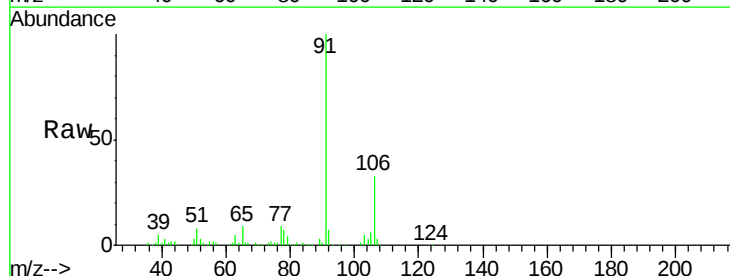
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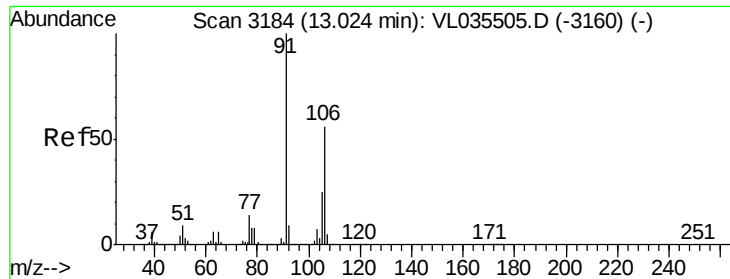
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#58
Ethyl Benzene
Concen: 0.498 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.4	30.3	45.5





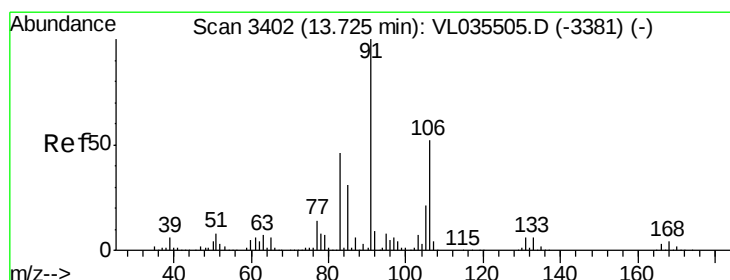
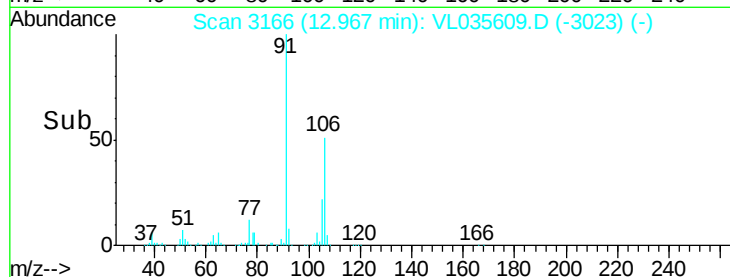
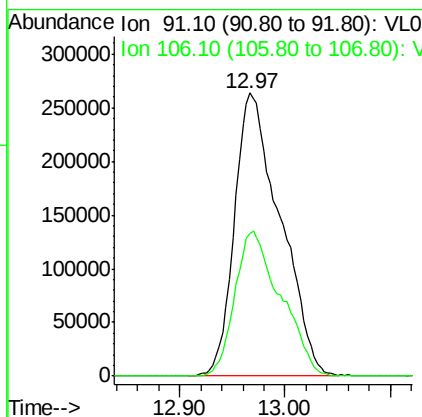
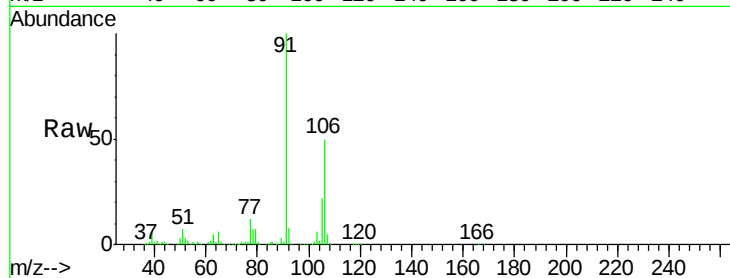
#59
m/p-Xylene
Concen: 2.133 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion: 91 Resp: 793113
Ion Ratio Lower Upper
91 100
106 51.6 43.4 65.2

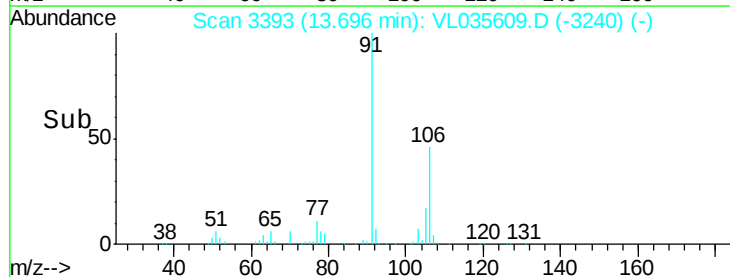
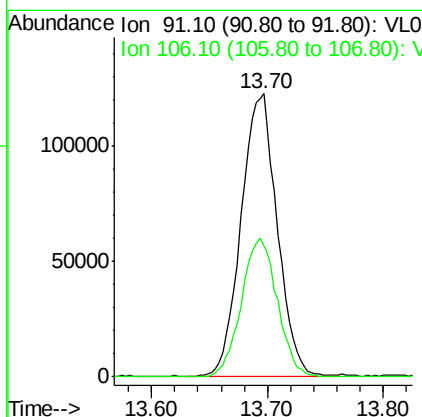
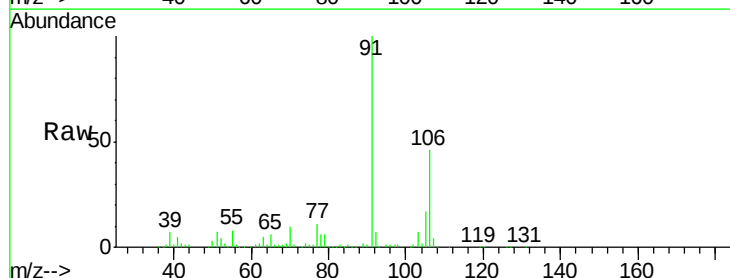
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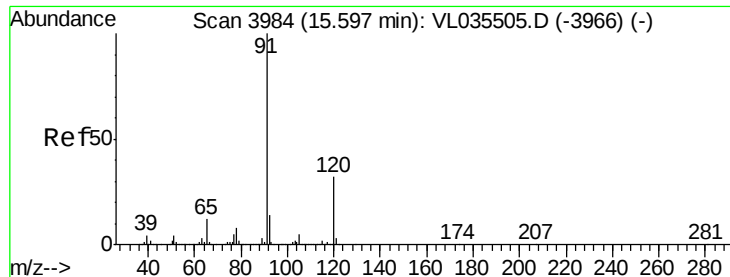
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#60
o-Xylene
Concen: 0.710 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL035609.D
Acq: 14 Sep 2020 21:39

Tgt Ion: 91 Resp: 265787
Ion Ratio Lower Upper
91 100
106 49.0 25.8 77.4





#64

n-propylbenzene

Concen: 0.192 ppbv m

RT: 15.57 min Scan# 3975

Delta R.T. -0.01 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Instrument :

MSVOA_L

ClientSampled :

SV-12

Tot Ion:120 Resp: 35290

Ion Ratio Lower Upper

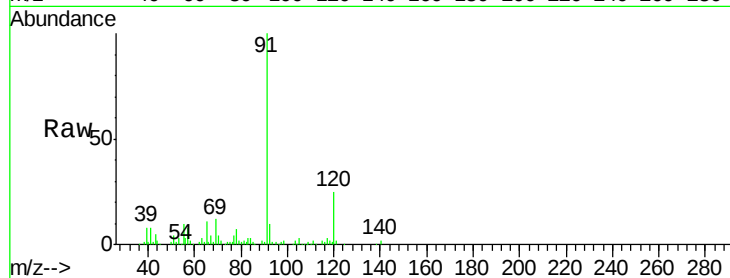
120 100

91 0.0 279.4 419.0#

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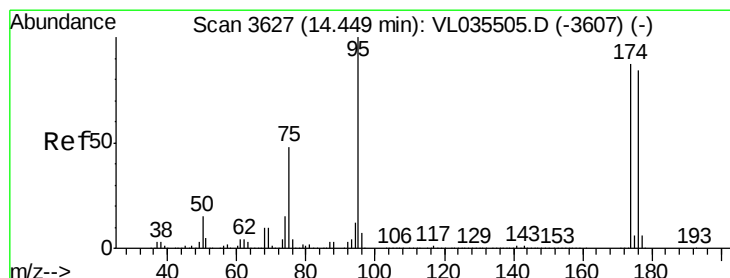
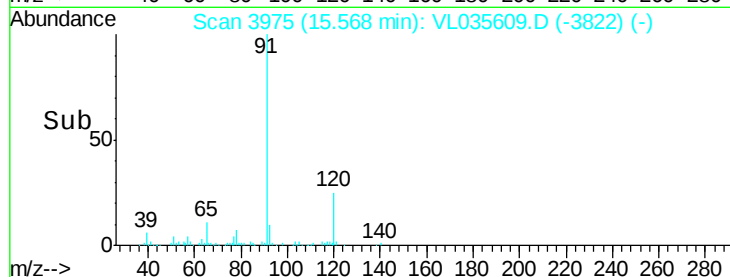
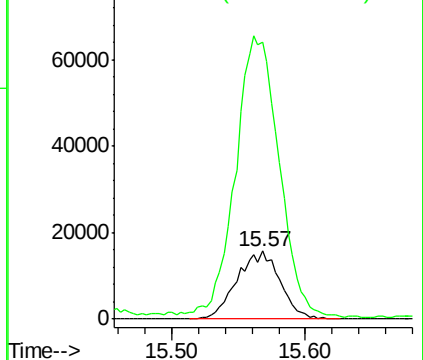
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.633 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

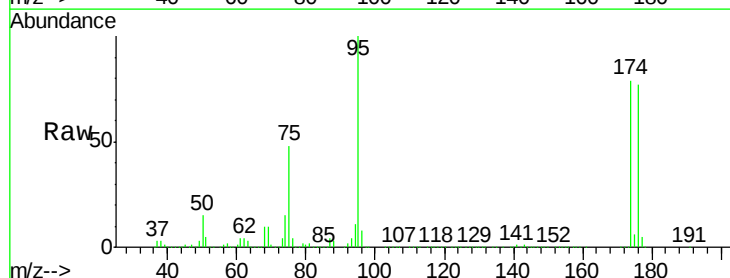
Tgt Ion: 95 Resp: 3258640

Ion Ratio Lower Upper

95 100

174 79.8 69.6 104.4

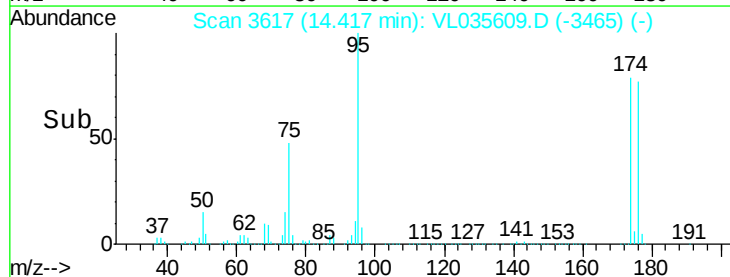
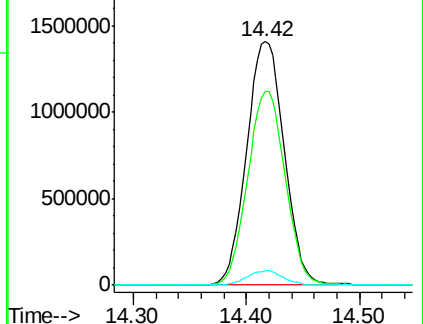
175 5.8 5.1 7.7

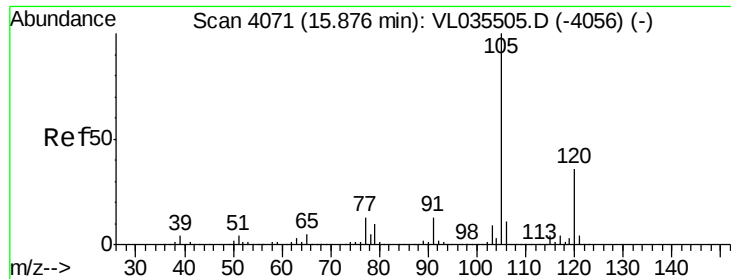


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.409 ppbv

RT: 15.84 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Instrument :

MSVOA_L

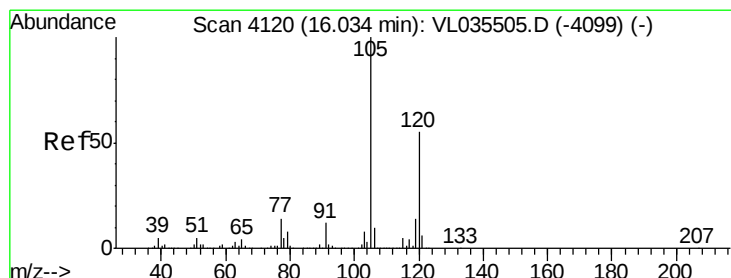
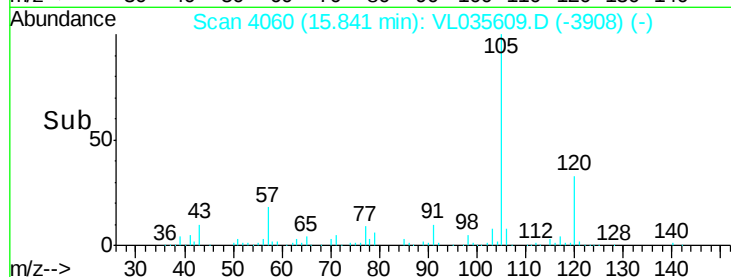
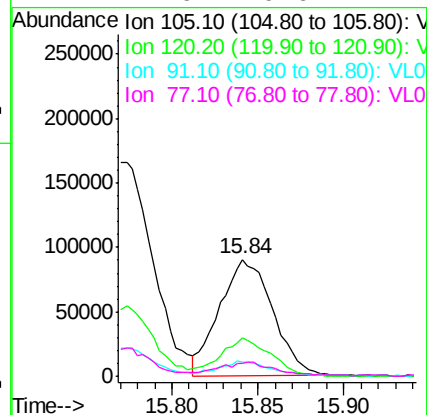
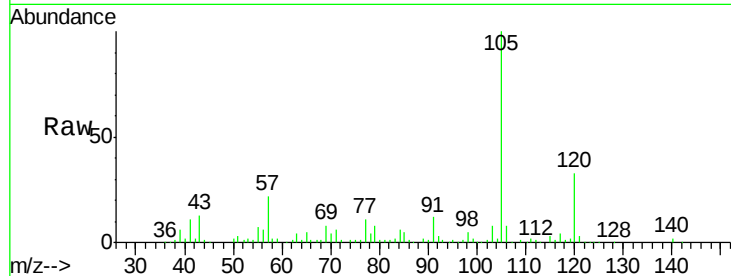
ClientSampled :

SV-12

Tot Ion	Ratio	Resp	Lower	Upper
105	100	194601		
120	30.2	27.4	41.2	
91	13.2	9.7	14.5	
77	12.6	9.6	14.4	

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#73

1,3,5-Trimethylbenzene

Concen: 0.206 ppbv

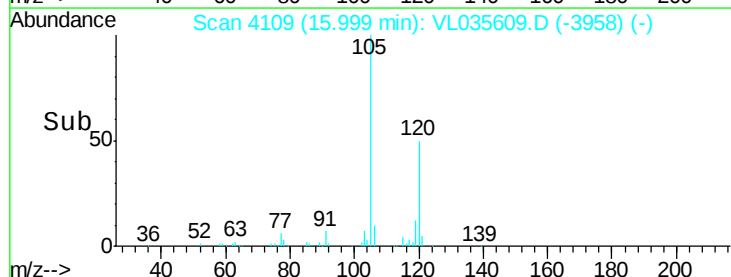
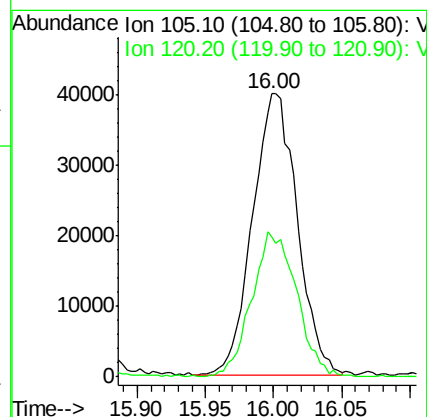
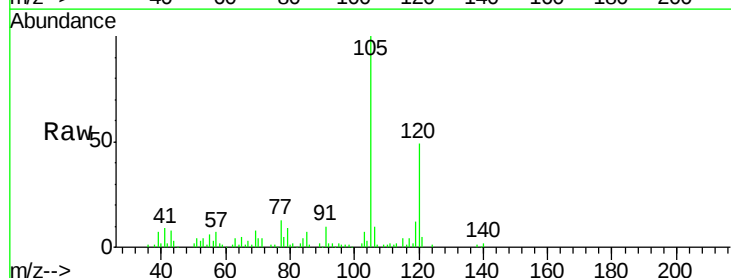
RT: 16.00 min Scan# 4109

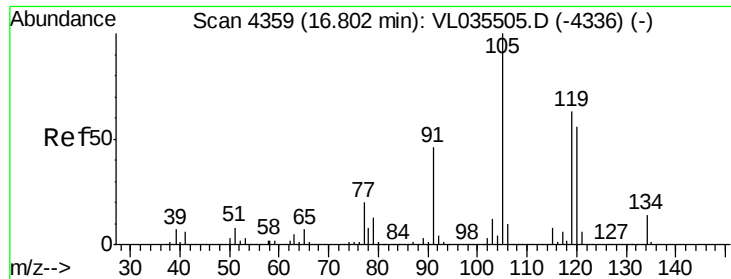
Delta R.T. -0.02 min

Lab File: VL035609.D

Acq: 14 Sep 2020 21:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	90676		
120	49.1	44.2	66.2	





#74
 1,2,4-Trimethylbenzene
 Concen: 0.885 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL035609.D
 Acq: 14 Sep 2020 21:39

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	47.0	44.4	66.6
91	10.4	37.1	55.7#
77	11.5	16.0	24.0#

Manual Integrations
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