

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035560.D
 Acq On : 8 Sep 2020 17:30
 Operator : SY/AP
 Sample : L3936-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 02-WHDUP

Manual Integrations
 APPROVED

MMDadoda
 9/10/2020 10:45:26 AM

Quant Time: Sep 09 09:02:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1039067	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4447061	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4448933	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	3346769	10.59	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	48834	0.271	ppbv	98
3) Chlorodifluoromethane	2.98	51	47003m	0.409	ppbv	
4) Chloromethane	3.13	50	31499	0.512	ppbv #	86
9) Propene	3.01	41	1849824m	41.754	ppbv	
10) Heptane	8.13	43	63651	0.535	ppbv	95
11) Trichlorofluoromethane	3.94	101	66133	0.252	ppbv	92
13) Ethanol	3.60	45	725198	66.019	ppbv	97
15) Acetone	3.84	43	1941908	16.945	ppbv	100
19) Isopropyl Alcohol	3.97	45	207847	3.040	ppbv #	1
20) Methylene Chloride	4.34	84	489399	5.734	ppbv	97
26) Hexane	5.68	57	218797	1.907	ppbv #	55
27) Carbon Disulfide	4.55	76	56219	0.342	ppbv #	87
30) Cyclohexane	7.13	84	21077m	0.172	ppbv	
34) 2-Butanone	5.25	43	167105	1.266	ppbv	100
35) Carbon Tetrachloride	7.02	117	14632	0.065	ppbv	97
36) Benzene	6.89	78	144460	0.502	ppbv #	95
44) 2,2,4-Trimethylpentane	7.87	57	302615	0.799	ppbv	92
50) 4-Methyl-2-Pentanone	8.76	43	72567m	0.380	ppbv	
52) Tetrachloroethene	11.24	164	12612m	0.075	ppbv	
53) Toluene	9.81	91	5108993	14.113	ppbv	98
58) Ethyl Benzene	12.72	91	268923	0.586	ppbv	93
59) m/p-Xylene	12.98	91	875308	2.283	ppbv	97
60) o-Xylene	13.70	91	291450	0.755	ppbv	96
61) Styrene	13.53	104	76723	0.260	ppbv	97
64) n-propylbenzene	15.57	120	18560	0.098	ppbv #	51
65) tert-Butylbenzene	16.78	119	56045m	0.097	ppbv	
72) 4-Ethyltoluene	15.85	105	119182	0.243	ppbv	96
73) 1,3,5-Trimethylbenzene	16.01	105	121048	0.267	ppbv	96
74) 1,2,4-Trimethylbenzene	16.77	105	459190	0.921	ppbv #	72
79) Naphthalene	22.23	128	53310m	0.096	ppbv	

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

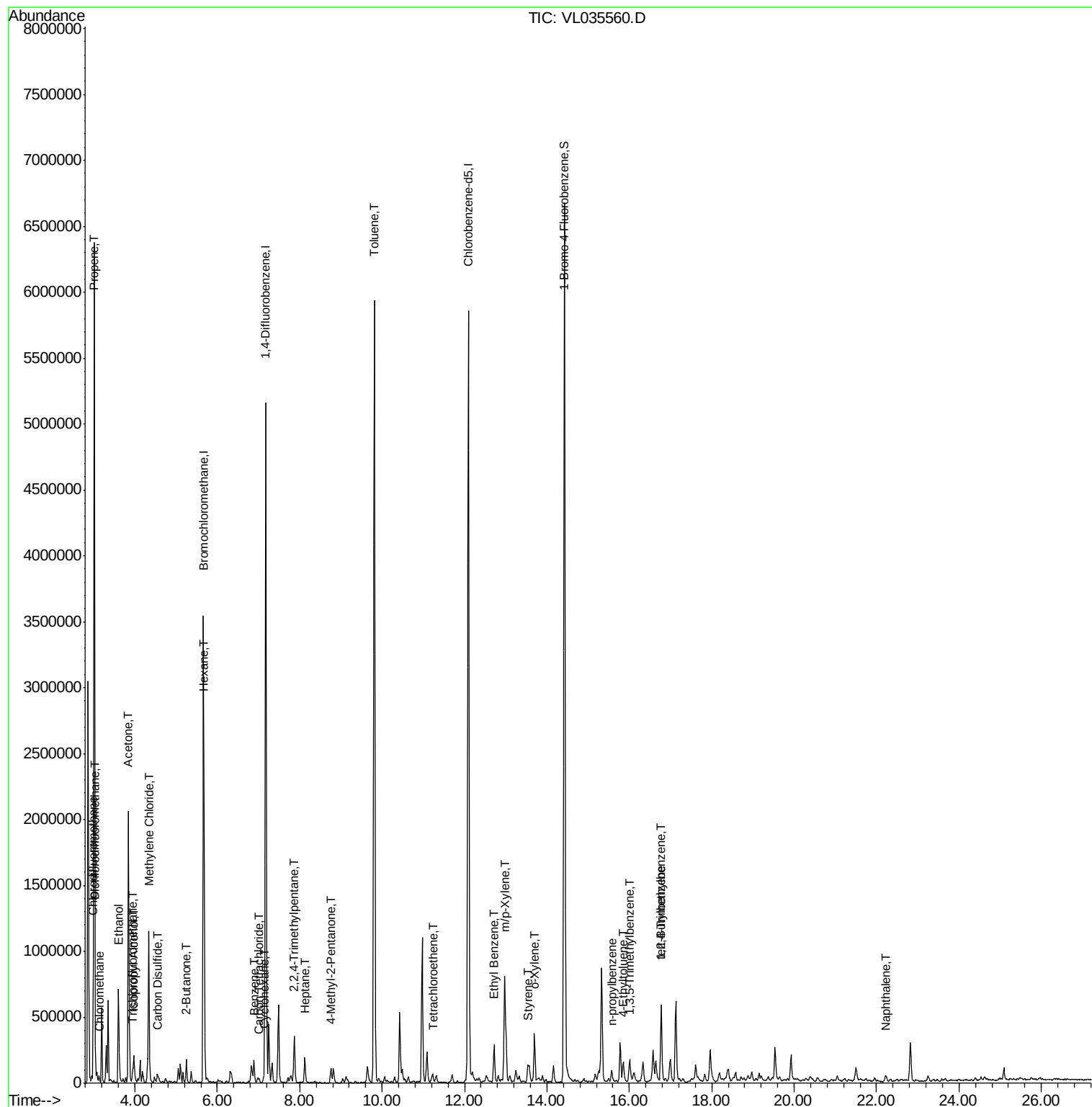
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090820\
Data File : VL035560.D
Acq On : 8 Sep 2020 17:30
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

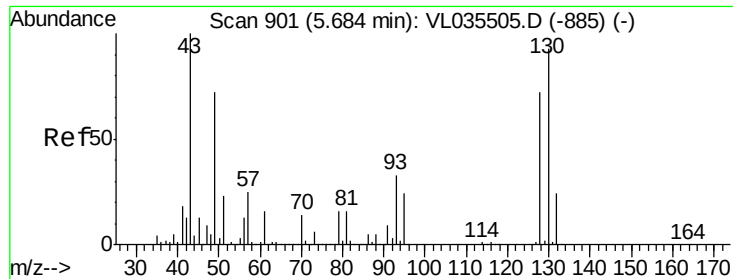
Instrument :
MSVOA_L
ClientSampleId :
02-WHDUP

Manual Integrations
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9/10/2020 10:45:26 AM

Quant Time: Sep 09 09:02:05 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

ClientSampleID :

02-WHDUP

Tot Ion: 49 Resp: 1039067

Ion Ratio Lower Upper

49 100

128 95.2 50.0 150.1

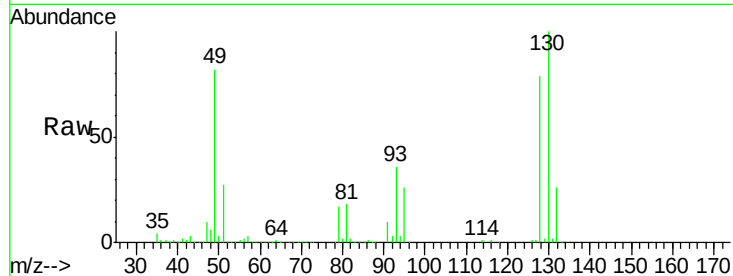
130 122.6 64.4 193.2

Manual Integrations

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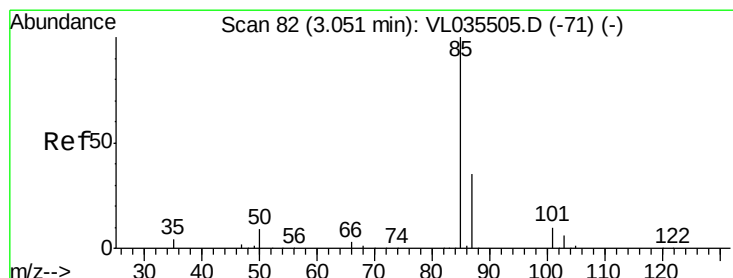
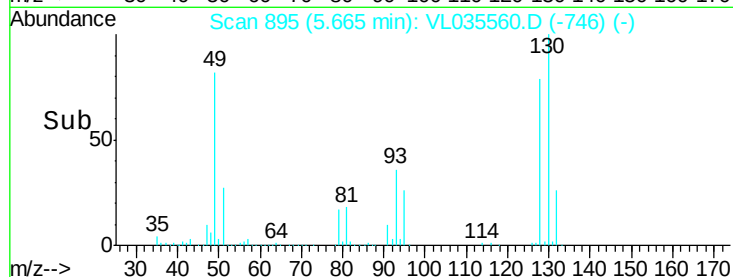
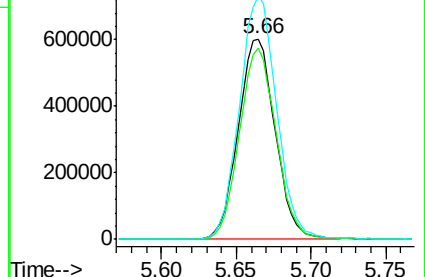
9/10/2020 10:45:26 AM



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



#2

Dichlorodifluoromethane

Concen: 0.271 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL035560.D

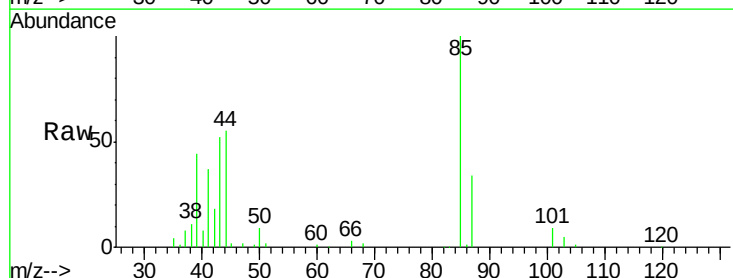
Acq: 8 Sep 2020 17:30

Tgt Ion: 85 Resp: 48834

Ion Ratio Lower Upper

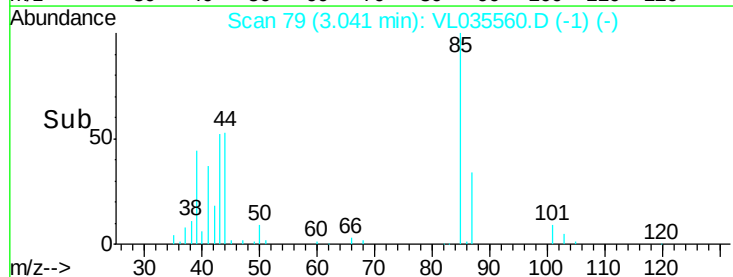
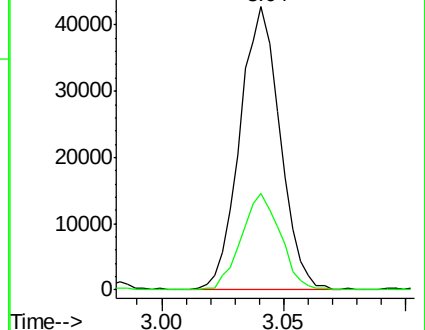
85 100

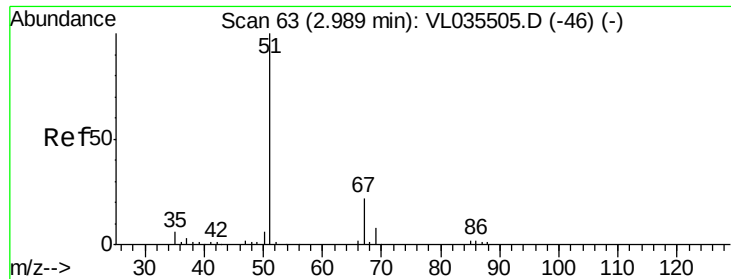
87 34.0 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

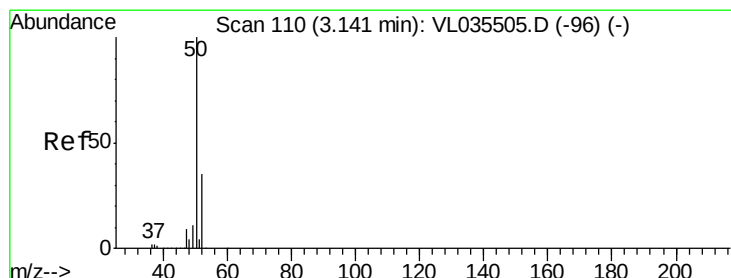
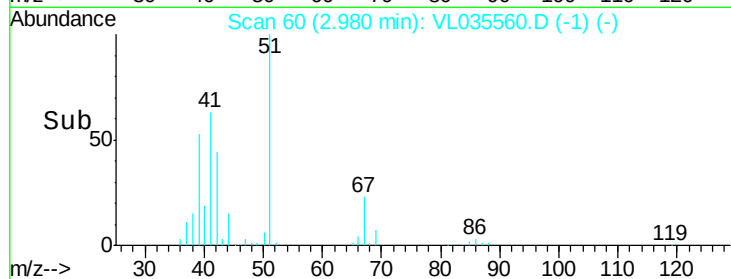
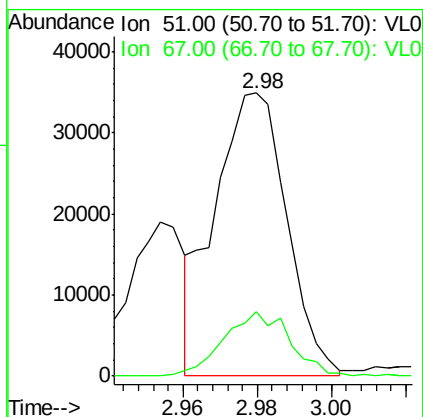
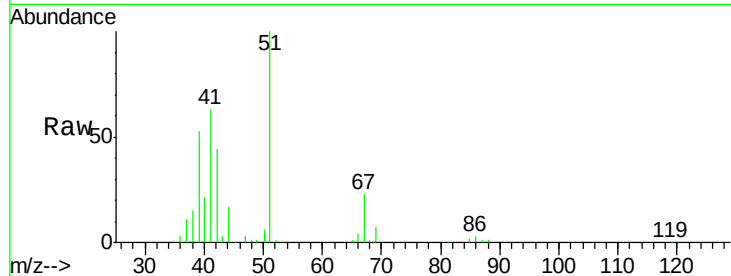
Chlorodifluoromethane
 Concen: 0.409 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. -0.01 min
 Lab File: VL035560.D
 Acq: 8 Sep 2020 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 02-WHDUP

Tot Ion: 51 Resp: 47003
 Ion Ratio Lower Upper
 51 100
 67 21.0 17.8 26.8

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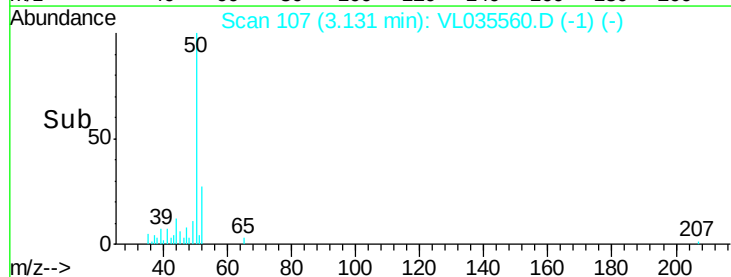
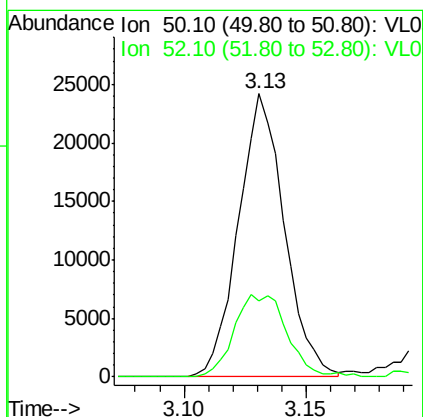
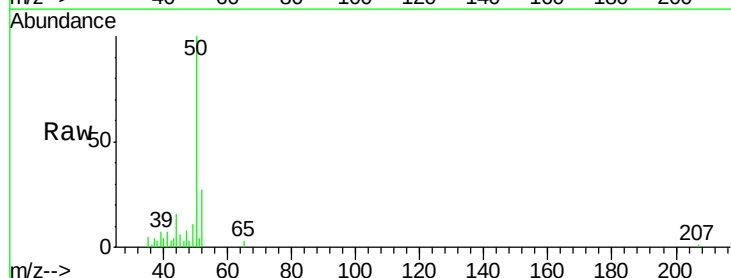
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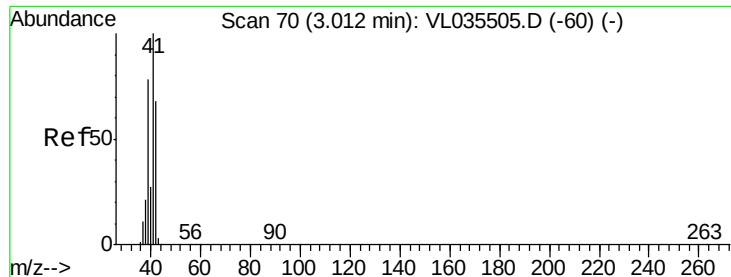


#4

Chloromethane
 Concen: 0.512 ppbv
 RT: 3.13 min Scan# 107
 Delta R.T. -0.01 min
 Lab File: VL035560.D
 Acq: 8 Sep 2020 17:30

Tgt Ion: 50 Resp: 31499
 Ion Ratio Lower Upper
 50 100
 52 26.7 27.7 41.5#





#9

Propene

Concen: 41.754 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

ClientSampleId :

02-WHDUP

Tot Ion: 41 Resp: 1849824

Ion Ratio Lower Upper

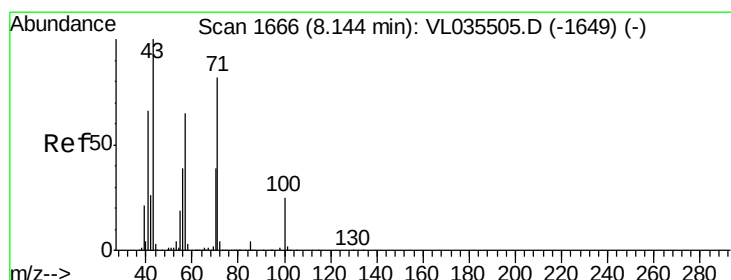
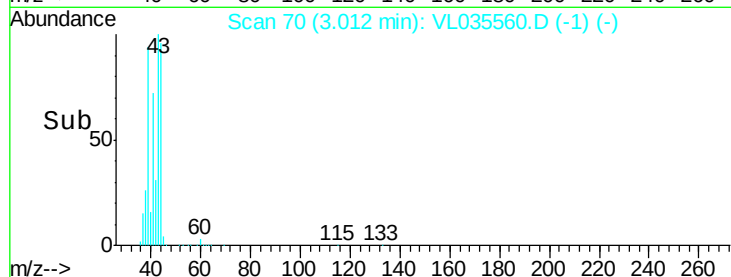
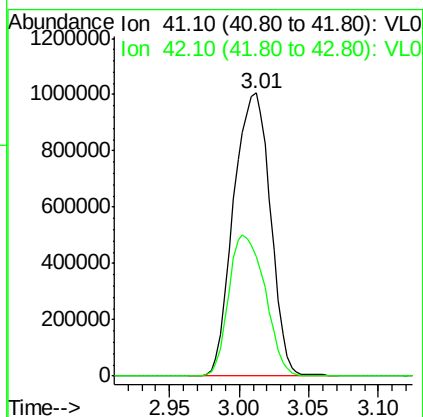
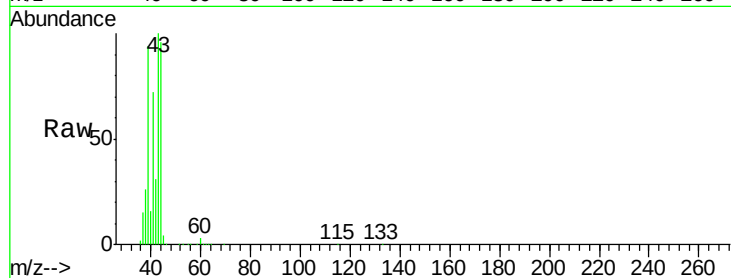
41 100

42 4.8 56.3 84.5#

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#10

Heptane

Concen: 0.535 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.02 min

Lab File: VL035560.D

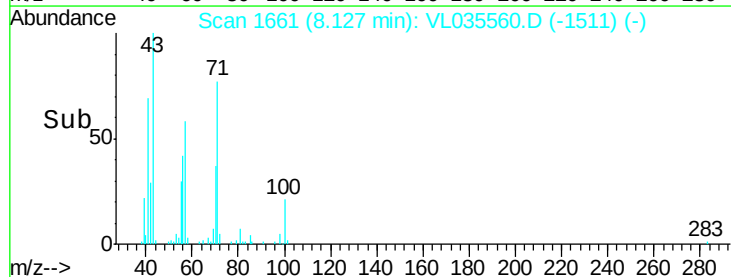
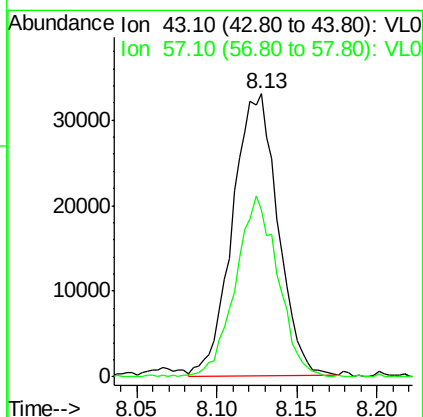
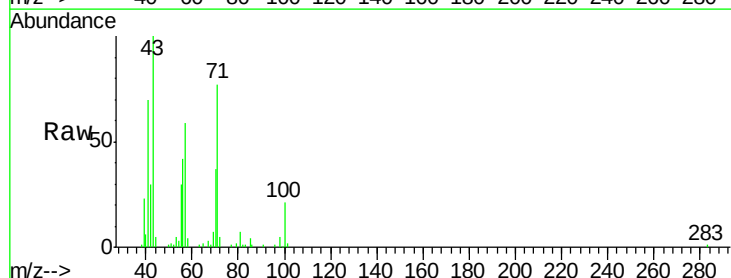
Acq: 8 Sep 2020 17:30

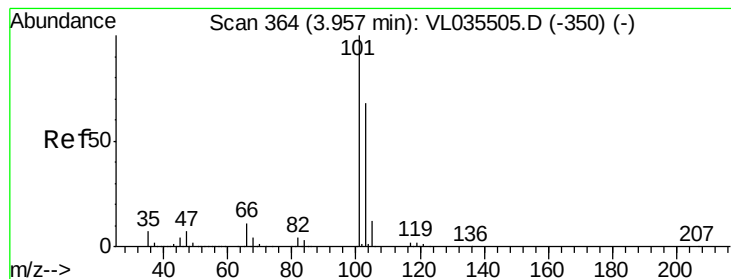
Tgt Ion: 43 Resp: 63651

Ion Ratio Lower Upper

43 100

57 60.3 51.4 77.0





#11

Trichlorofluoromethane

Concen: 0.252 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

ClientSampleId :

02-WHDUP

Tot Ion:101 Resp: 66133

Ion Ratio Lower Upper

101 100

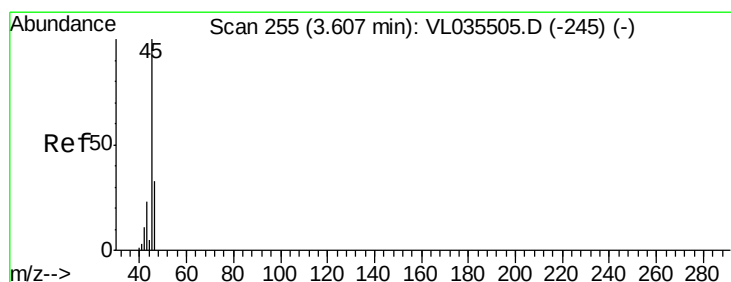
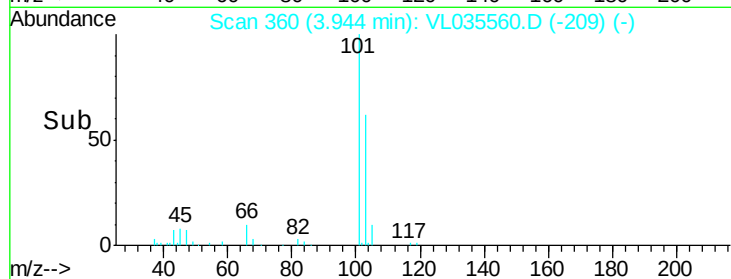
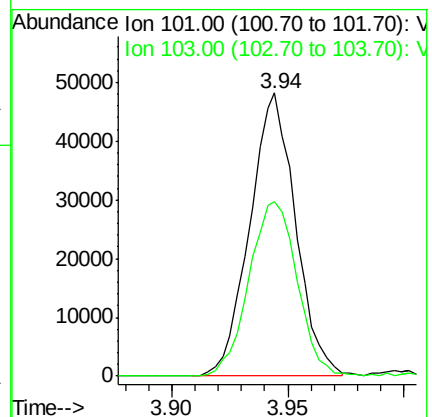
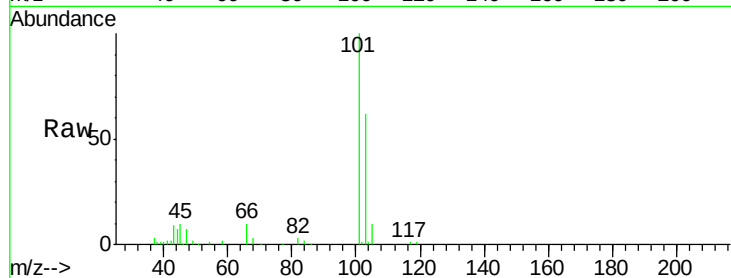
103 61.6 54.5 81.7

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#13

Ethanol

Concen: 66.019 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035560.D

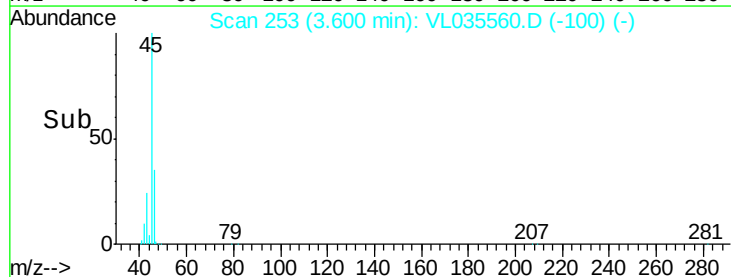
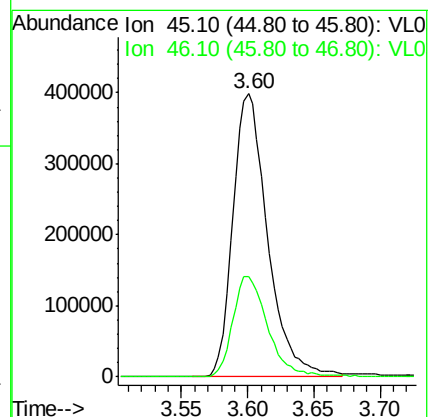
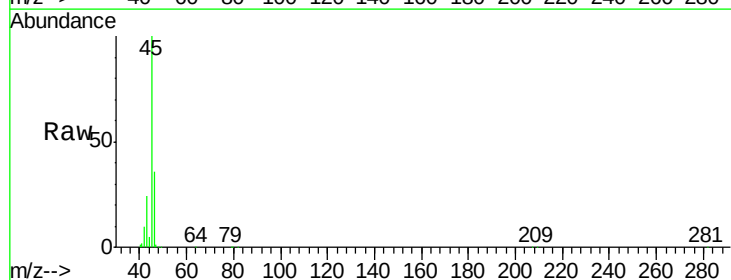
Acq: 8 Sep 2020 17:30

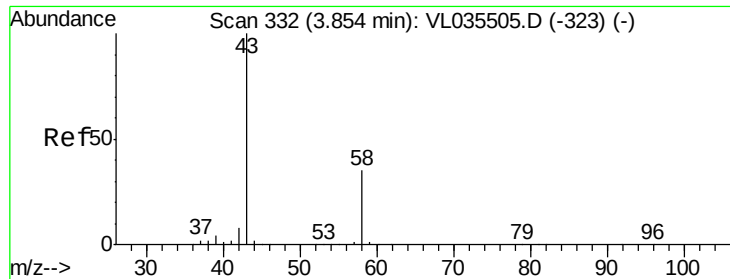
Tgt Ion: 45 Resp: 725198

Ion Ratio Lower Upper

45 100

46 36.3 15.2 60.6





#15

Acetone

Concen: 16.945 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

ClientSampleId :

02-WHDUP

Tot Ion: 43 Resp: 1941908

Ion Ratio Lower Upper

43 100

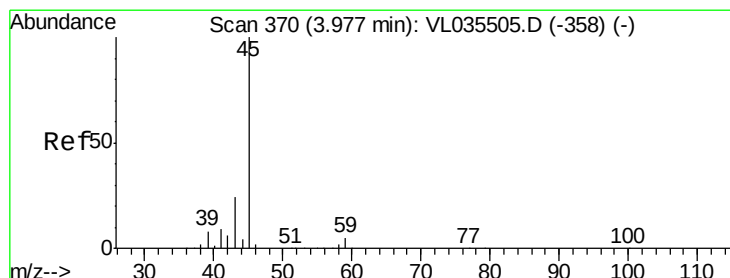
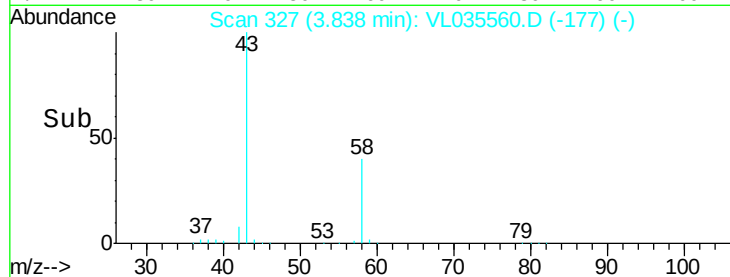
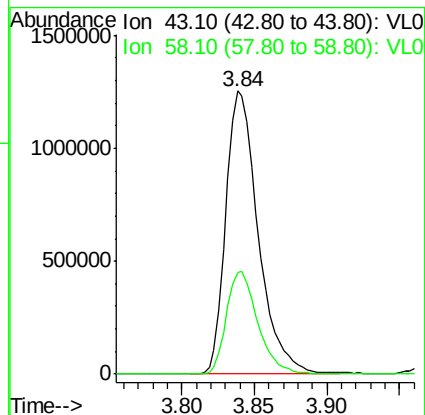
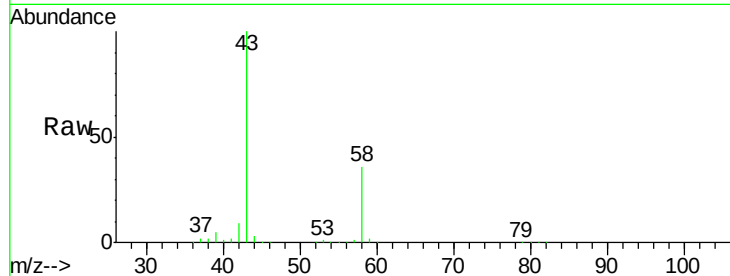
58 35.5 28.4 42.6

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 3.040 ppbv

RT: 3.97 min Scan# 368

Delta R.T. -0.01 min

Lab File: VL035560.D

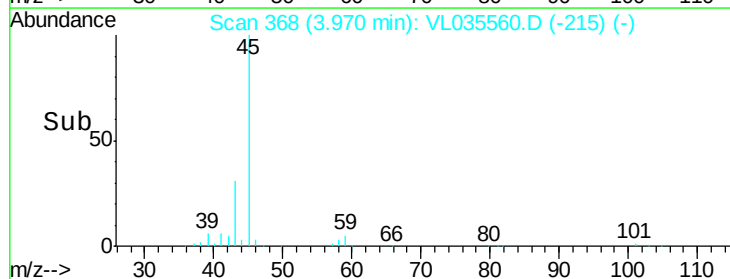
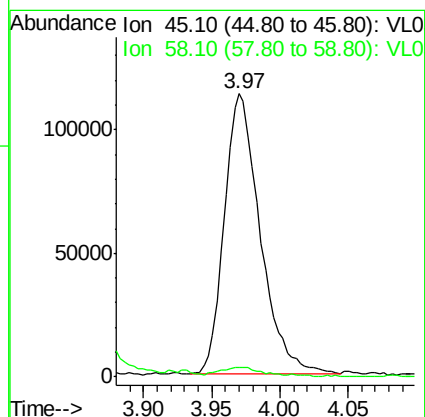
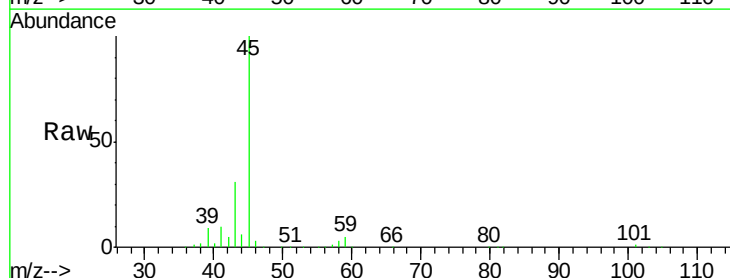
Acq: 8 Sep 2020 17:30

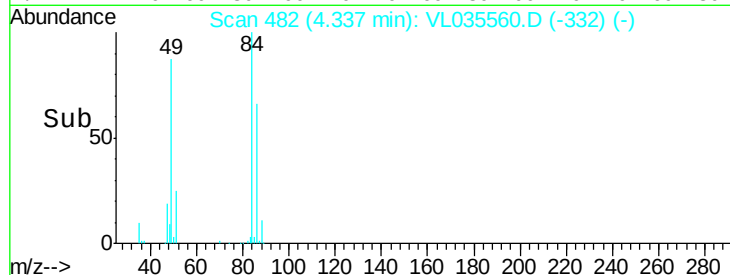
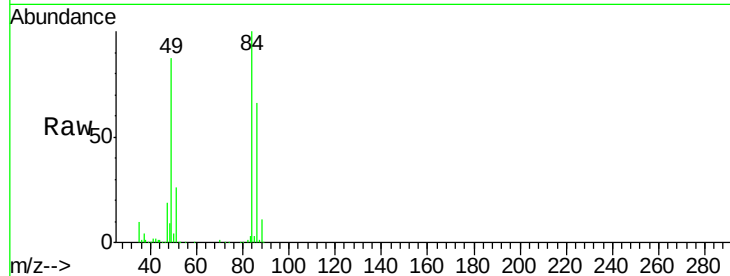
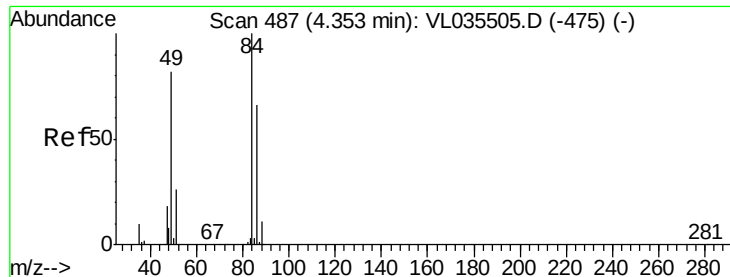
Tgt Ion: 45 Resp: 207847

Ion Ratio Lower Upper

45 100

58 331.1 2.0 3.0#





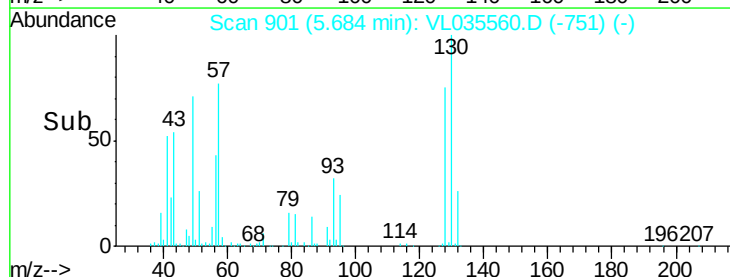
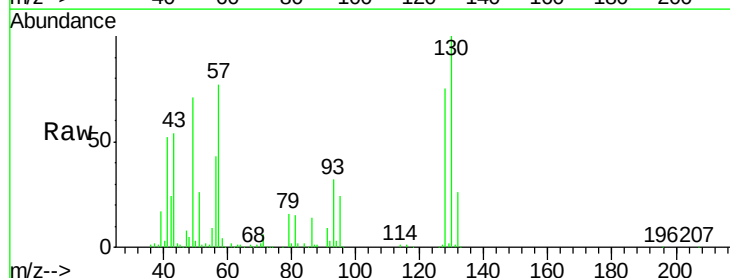
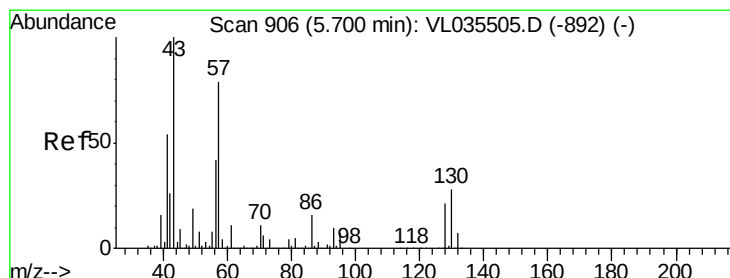
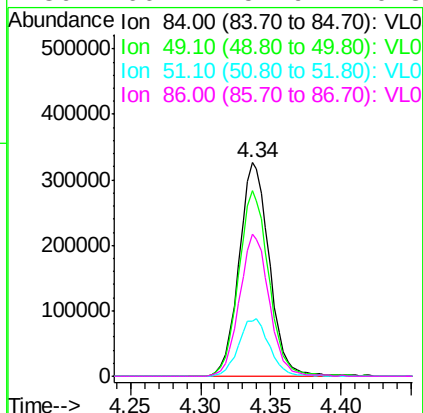
#20
Methylene Chloride
Concen: 5.734 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.02 min
Lab File: VL035560.D
Acq: 8 Sep 2020 17:30

Tot Ion	84	Resp	489399
Ion Ratio	Lower	Upper	
84	100		
49	87.2	65.4	98.0
51	25.5	21.5	32.3
86	66.4	52.9	79.3

Instrument :
MSVOA_L
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02-WHDUP

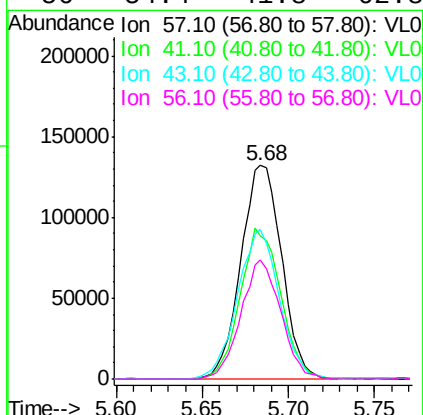
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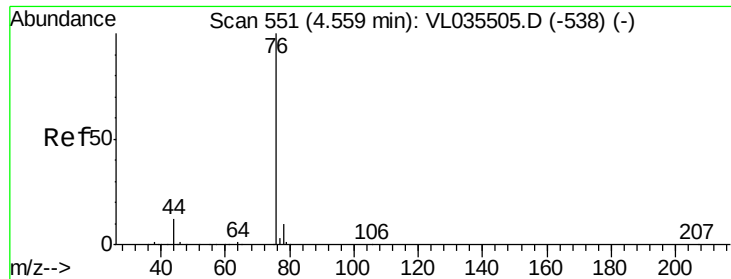
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#26
Hexane
Concen: 1.907 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.02 min
Lab File: VL035560.D
Acq: 8 Sep 2020 17:30

Tgt Ion	57	Resp	218797
Ion Ratio	Lower	Upper	
57	100		
41	70.4	55.9	83.9
43	72.3	141.8	212.8#
56	54.4	41.8	62.8





#27

Carbon Disulfide

Concen: 0.342 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

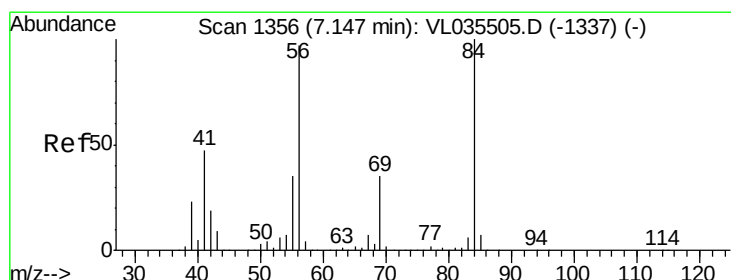
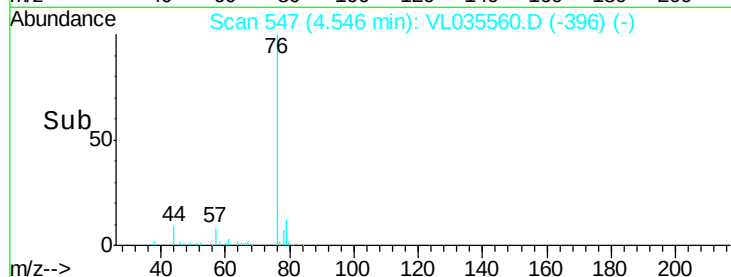
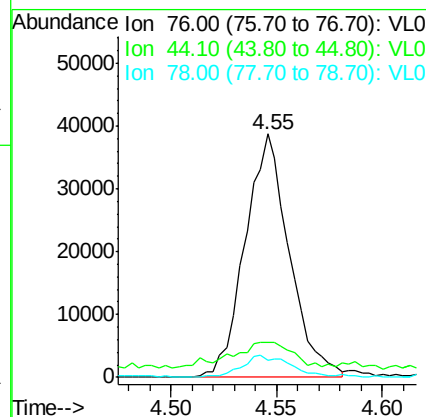
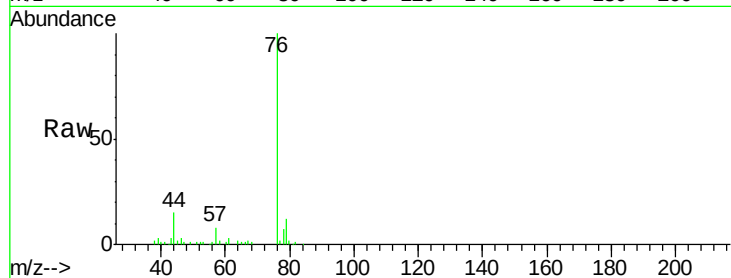
ClientSampleId :

02-WHDUP

Tot Ion:	76	Resp:	56219
Ion	Ratio	Lower	Upper
76	100		
44	20.2	9.3	13.9#
78	10.2	7.8	11.6

Manual Integrations
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#30

Cyclohexane

Concen: 0.172 ppbv m

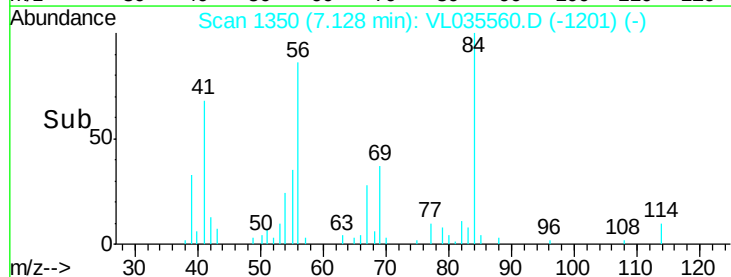
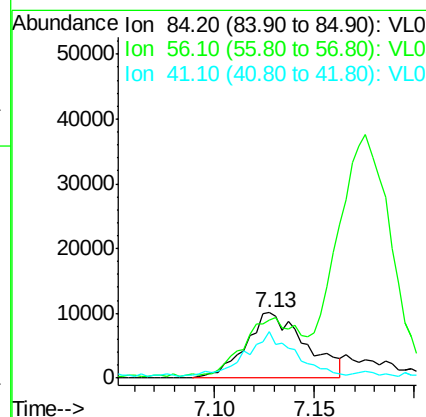
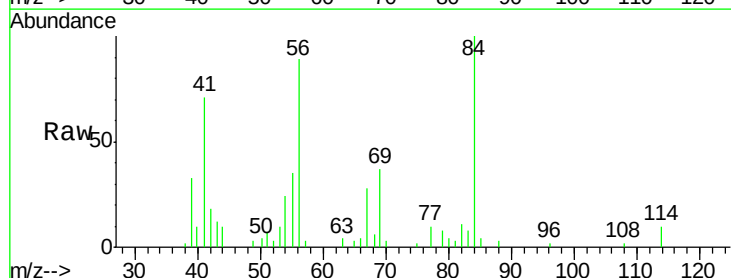
RT: 7.13 min Scan# 1350

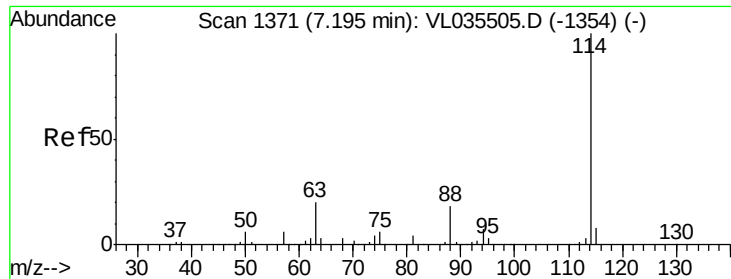
Delta R.T. -0.02 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Tgt Ion:	84	Resp:	21077
Ion	Ratio	Lower	Upper
84	100		
56	0.0	80.1	120.1#
41	59.0	38.1	57.1#





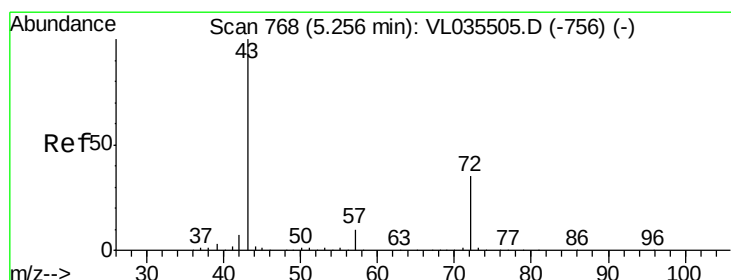
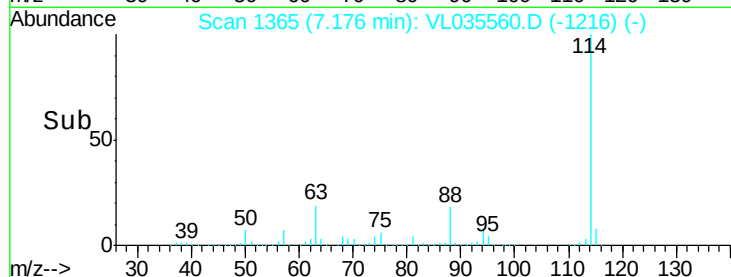
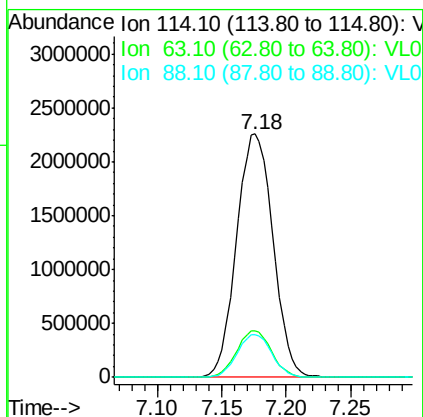
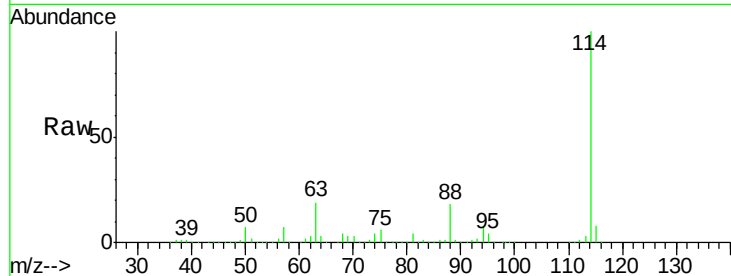
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.02 min
 Lab File: VL035560.D
 Acq: 8 Sep 2020 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 02-WHDUP

Tot Ion:114 Resp: 4447061
 Ion Ratio Lower Upper
 114 100
 63 18.3 14.7 22.1
 88 16.8 13.4 20.2

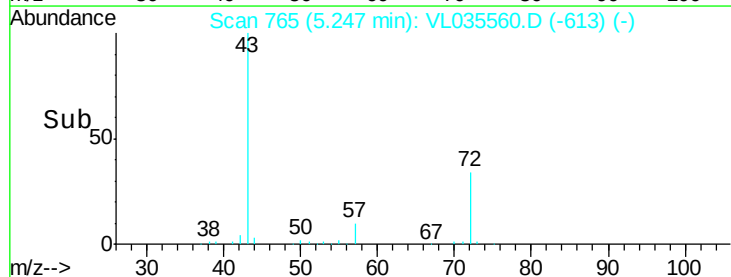
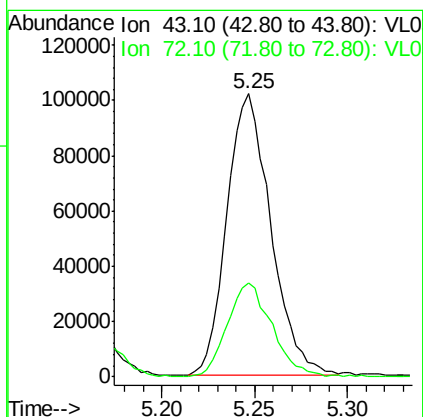
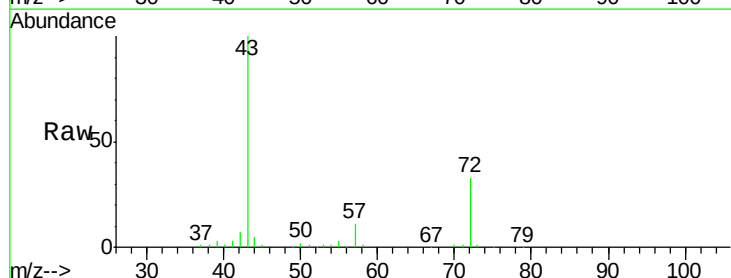
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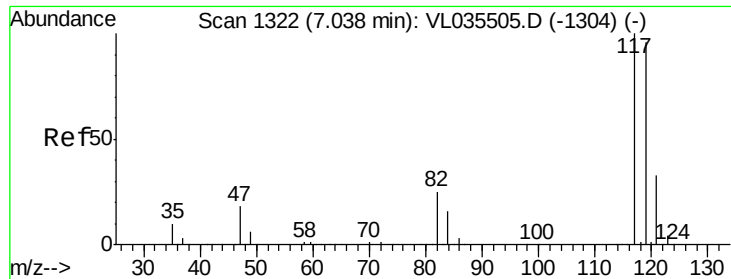
MMDadoda
 9/10/2020 10:45:26 AM



#34
 2-Butanone
 Concen: 1.266 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: VL035560.D
 Acq: 8 Sep 2020 17:30

Tgt Ion: 43 Resp: 167105
 Ion Ratio Lower Upper
 43 100
 72 34.5 27.7 41.5





#35

Carbon Tetrachloride

Concen: 0.065 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.02 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

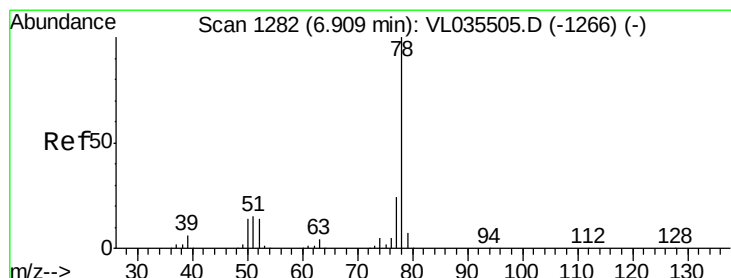
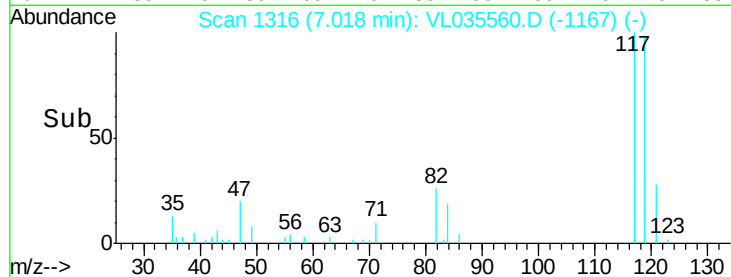
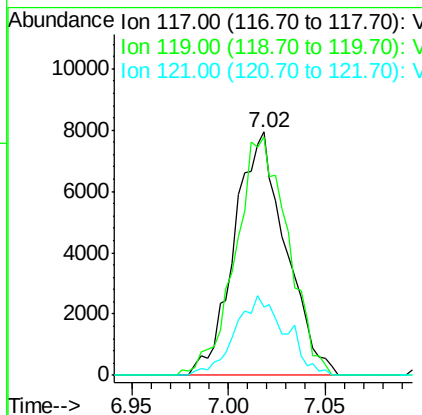
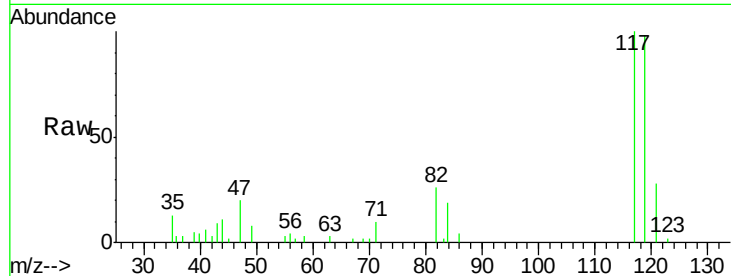
ClientSampleId :

02-WHDUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.8	77.2	115.8
121	28.3	26.1	39.1

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#36

Benzene

Concen: 0.502 ppbv

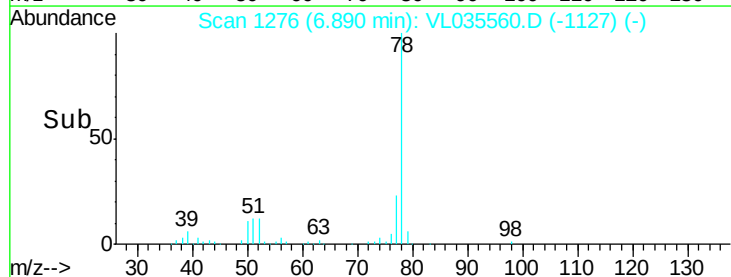
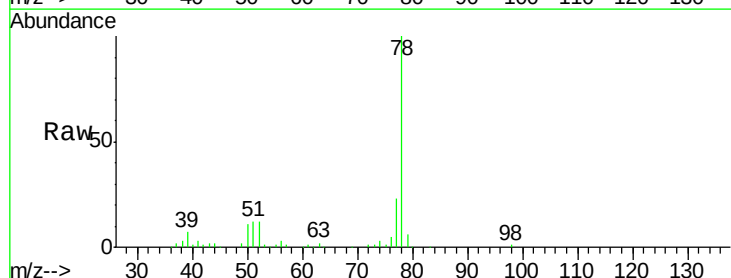
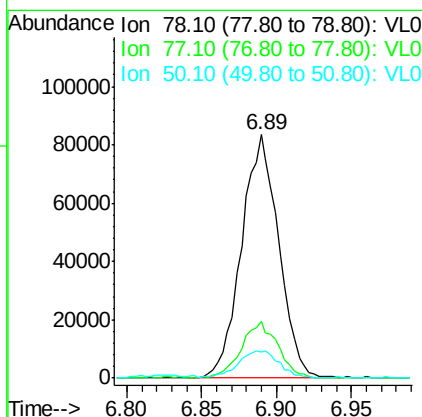
RT: 6.89 min Scan# 1276

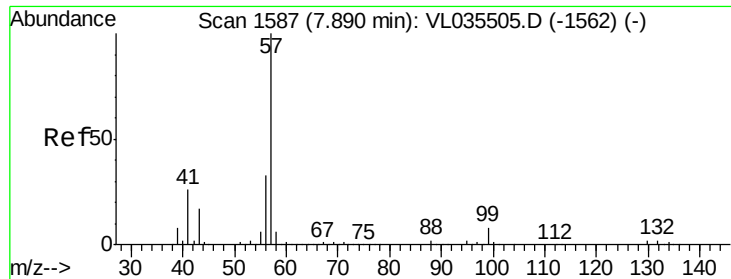
Delta R.T. -0.02 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.3	28.9
50	10.3	11.0	16.6#





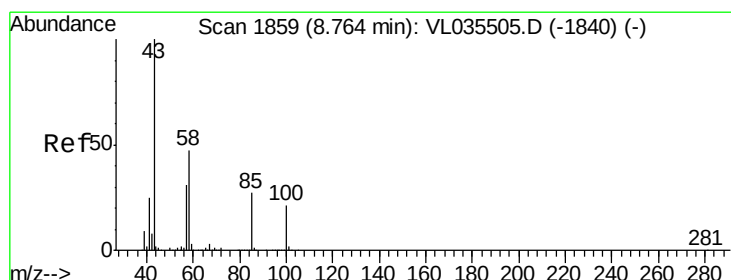
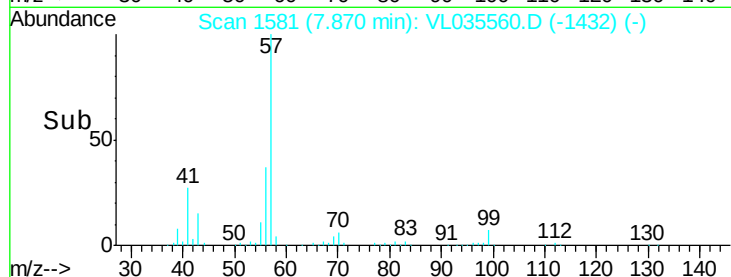
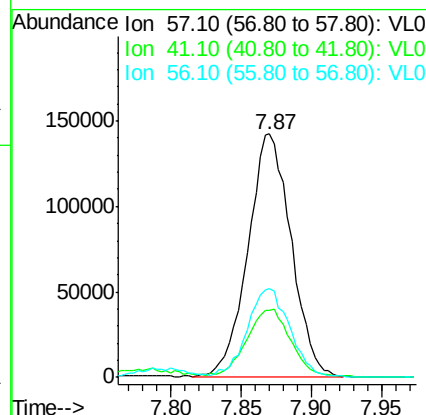
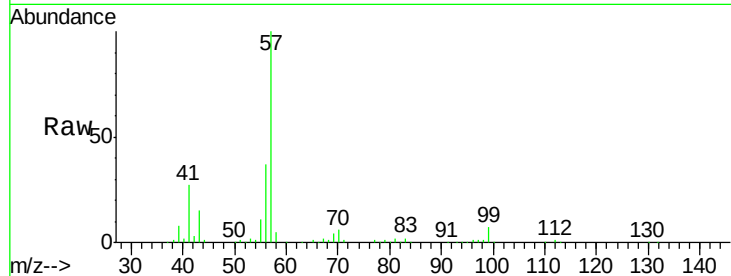
#44
 2,2,4-Trimethylpentane
 Concen: 0.799 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.02 min
 Lab File: VL035560.D
 Acq: 8 Sep 2020 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 02-WHDUP

Tot Ion:	57	Resp:	302615
Ion Ratio	Lower	Upper	
57	100		
41	28.9	20.5	30.7
56	36.8	25.3	37.9

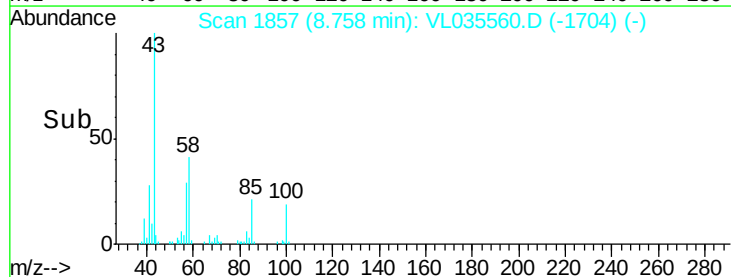
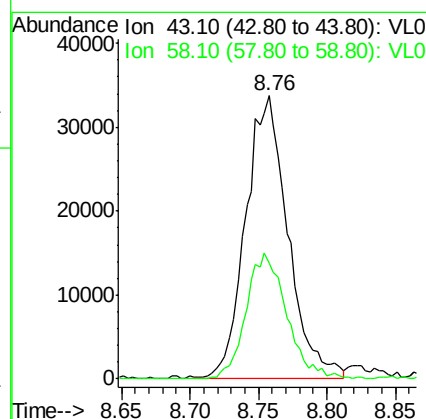
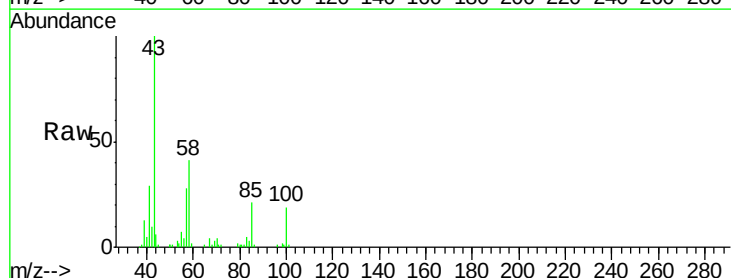
Manual Integrations
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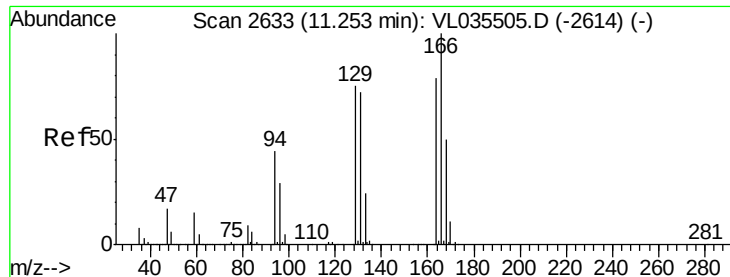
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 9/10/2020 10:45:26 AM



#50
 4-Methyl-2-Pentanone
 Concen: 0.380 ppbv m
 RT: 8.76 min Scan# 1857
 Delta R.T. -0.01 min
 Lab File: VL035560.D
 Acq: 8 Sep 2020 17:30

Tgt Ion:	43	Resp:	72567
Ion Ratio	Lower	Upper	
43	100		
58	0.0	37.4	56.0#





#52

Tetrachloroethene

Concen: 0.075 ppbv m

RT: 11.24 min Scan# 2628

Delta R.T. -0.02 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

ClientSampleId :

02-WHDUP

Tot Ion:164 Resp: 12612

Ion Ratio Lower Upper

164 100

166 102.1 100.9 151.3

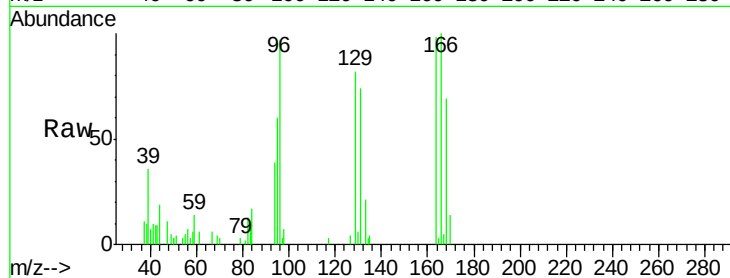
129 84.1 75.3 112.9

131 75.8 73.0 109.4

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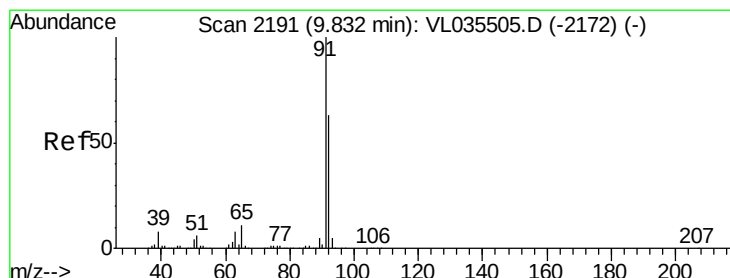
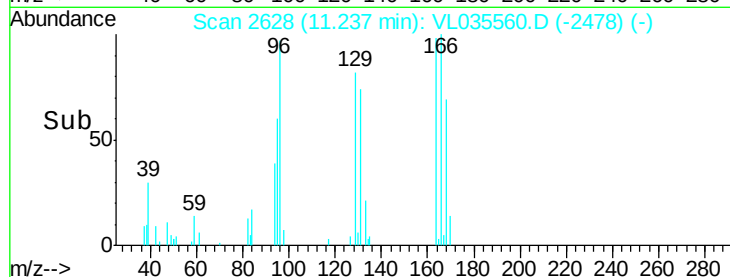
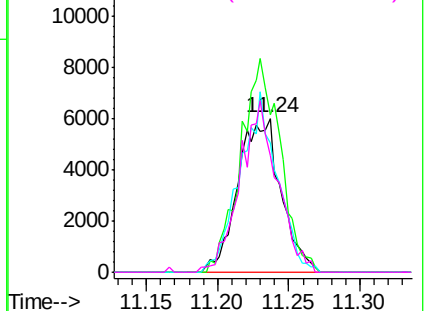


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 14.113 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035560.D

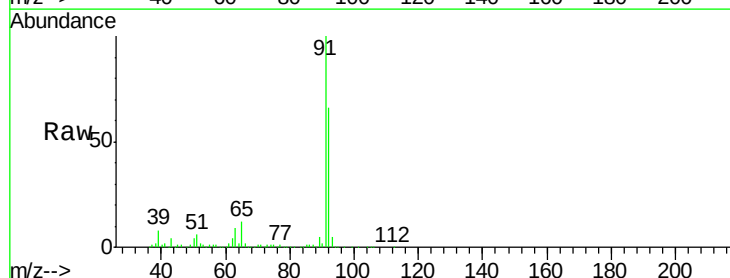
Acq: 8 Sep 2020 17:30

Tgt Ion: 91 Resp: 5108993

Ion Ratio Lower Upper

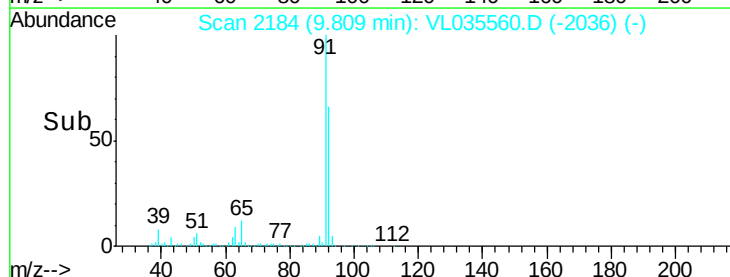
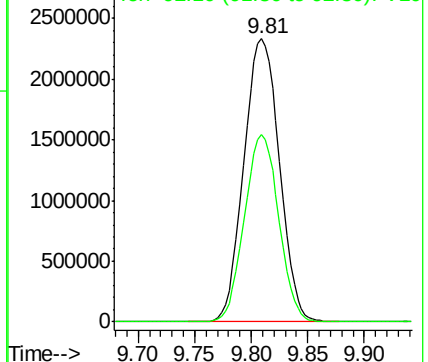
91 100

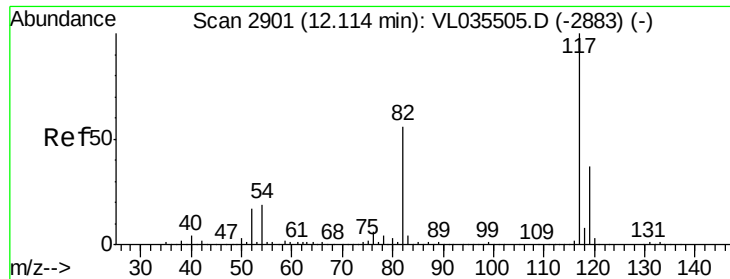
92 64.0 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.02 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

ClientSampleId :

02-WHDUP

Tot Ion:117 Resp: 4448933

Ion Ratio Lower Upper

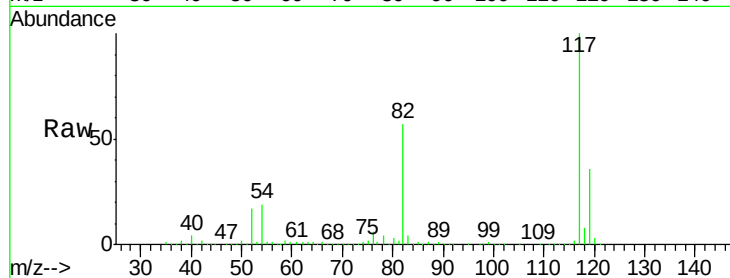
117 100

82 55.3 41.6 62.4

119 34.9 29.3 43.9

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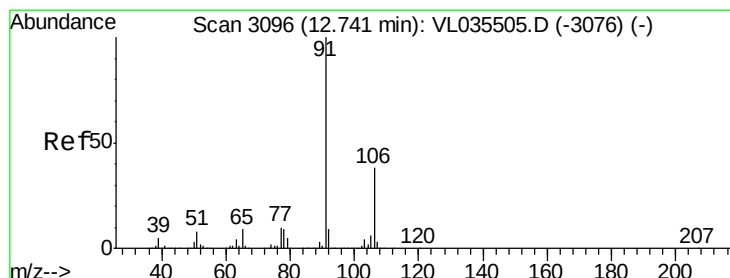
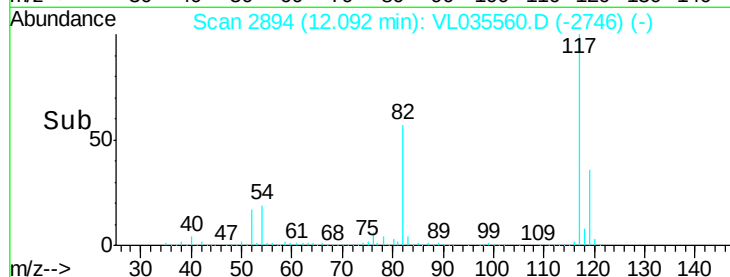
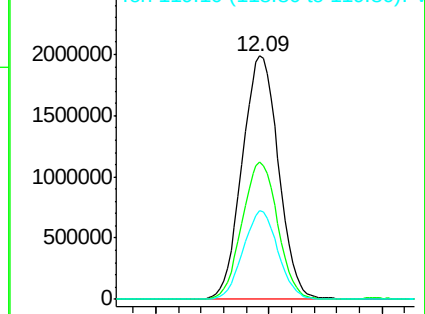
MMDadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.586 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. -0.02 min

Lab File: VL035560.D

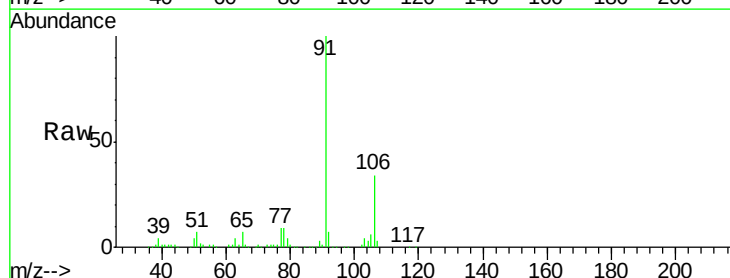
Acq: 8 Sep 2020 17:30

Tgt Ion: 91 Resp: 268923

Ion Ratio Lower Upper

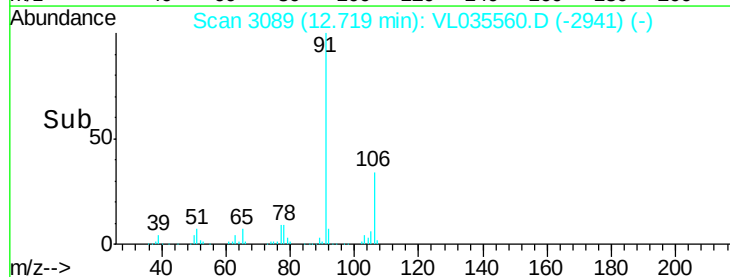
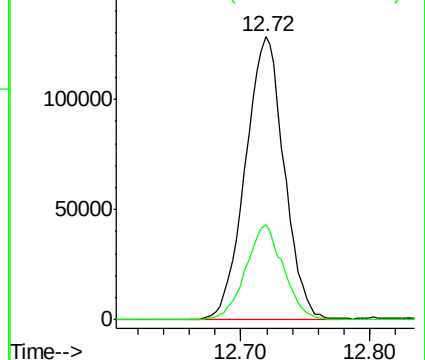
91 100

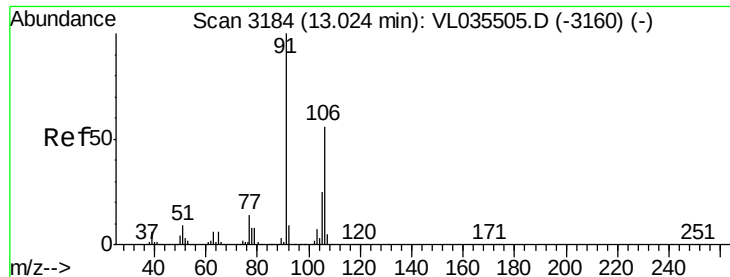
106 33.8 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





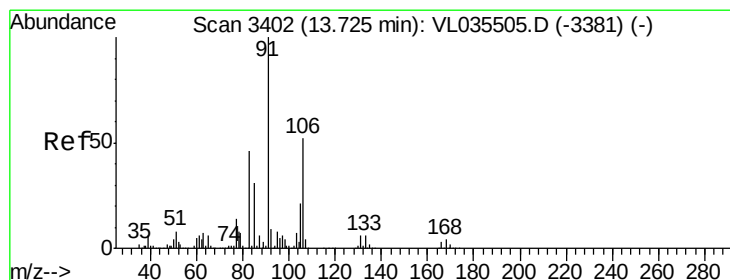
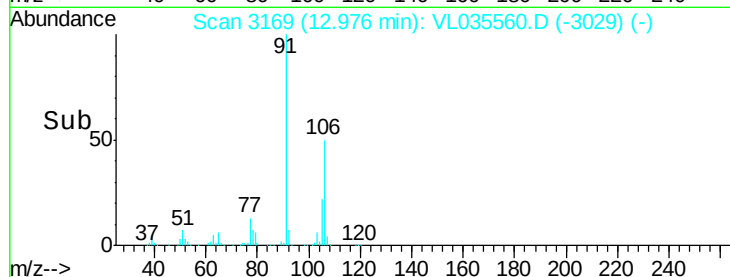
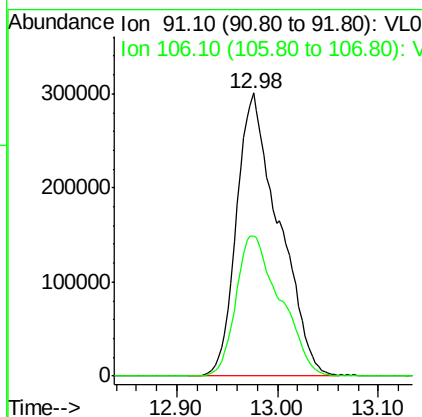
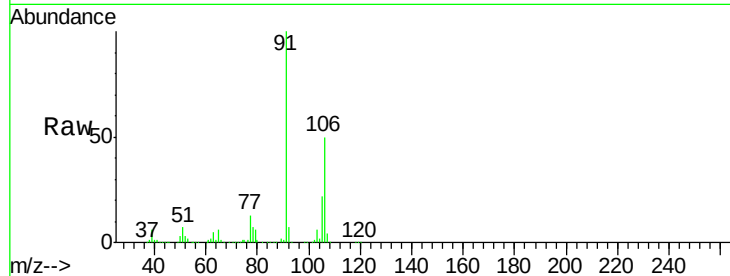
#59
m/p-Xylene
Concen: 2.283 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.05 min
Lab File: VL035560.D
Acq: 8 Sep 2020 17:30

Instrument :
MSVOA_L
ClientSampleId :
02-WHDUP

Tot Ion: 91 Resp: 875308
Ion Ratio Lower Upper
91 100
106 52.0 43.4 65.2

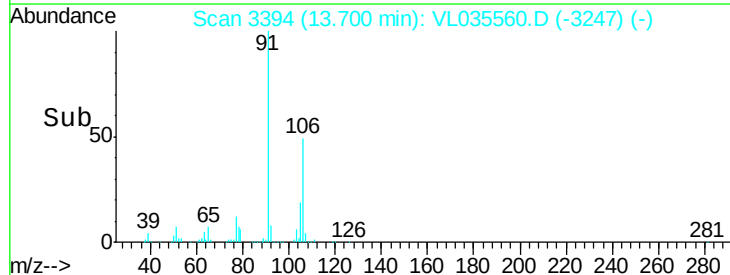
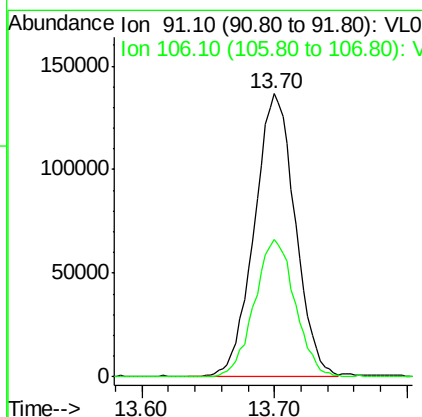
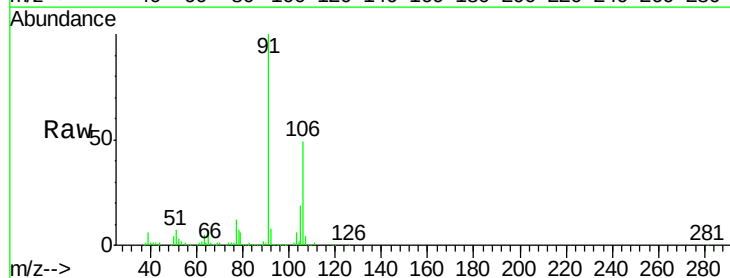
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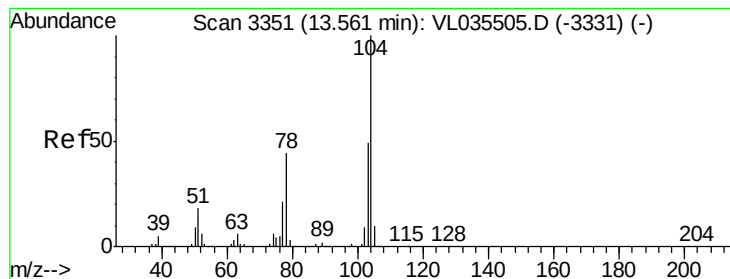
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#60
o-Xylene
Concen: 0.755 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. -0.03 min
Lab File: VL035560.D
Acq: 8 Sep 2020 17:30

Tgt Ion: 91 Resp: 291450
Ion Ratio Lower Upper
91 100
106 48.7 25.8 77.4





#61

Stvrene

Concen: 0.260 ppbv

RT: 13.53 min Scan# 3342

Delta R.T. -0.03 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

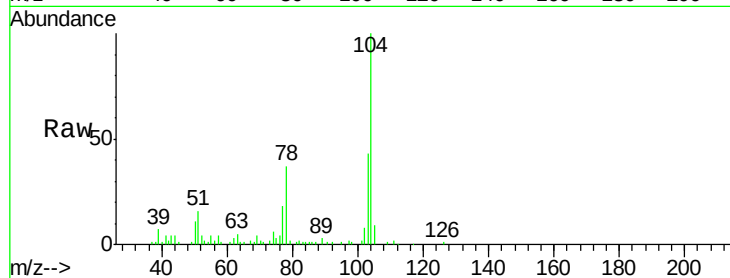
ClientSampleId :

02-WHDUP

Tot Ion:	104	Resp:	76723
Ion Ratio	Lower	Upper	
104	100		
78	40.9	34.8	52.2
103	46.0	38.2	57.4

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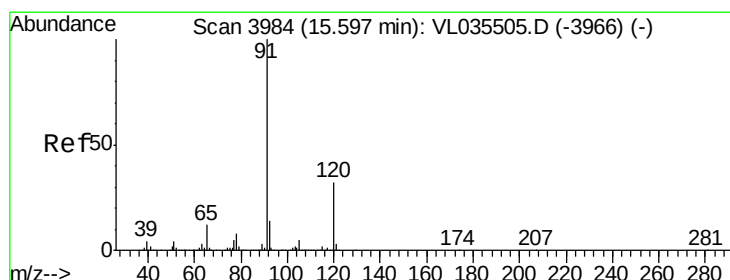
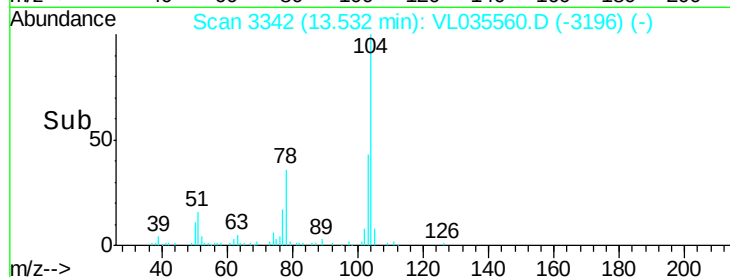
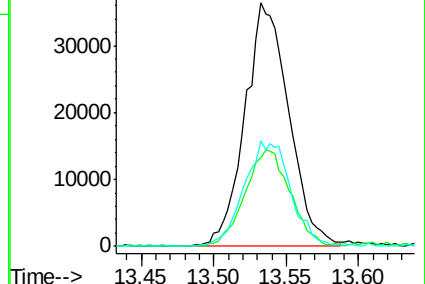
MMDadoda
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#64

n-propylbenzene

Concen: 0.098 ppbv

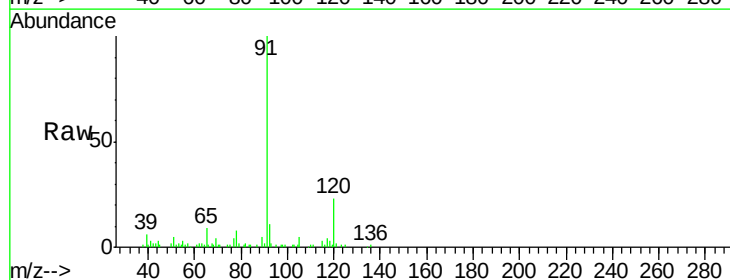
RT: 15.57 min Scan# 3976

Delta R.T. -0.03 min

Lab File: VL035560.D

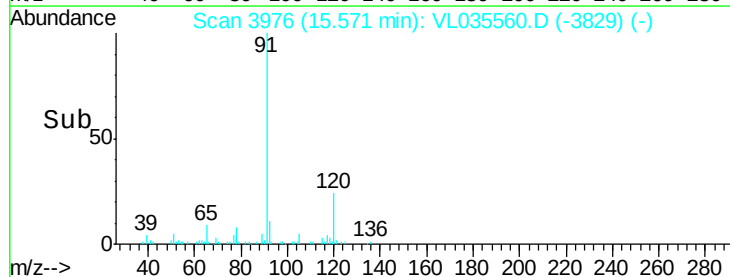
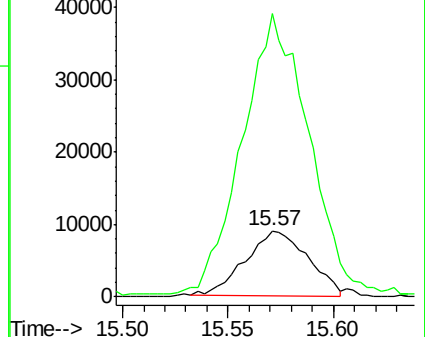
Acq: 8 Sep 2020 17:30

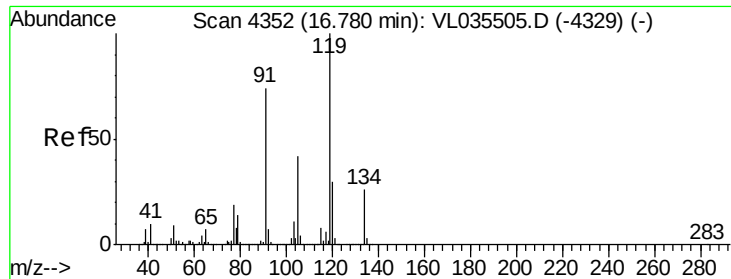
Tgt Ion:	120	Resp:	18560
Ion Ratio	Lower	Upper	
120	100		
91	455.8	279.4	419.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.097 ppbv m

RT: 16.78 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Instrument :

MSVOA_L

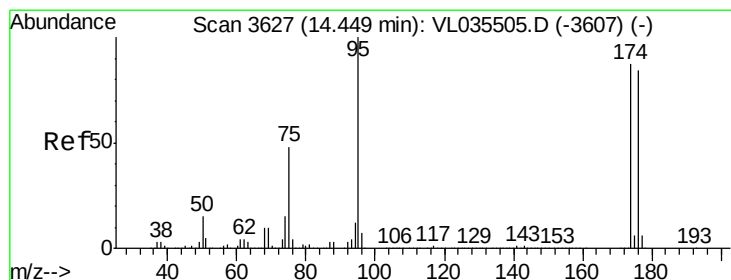
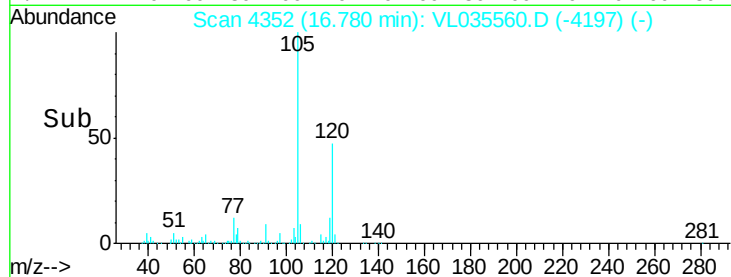
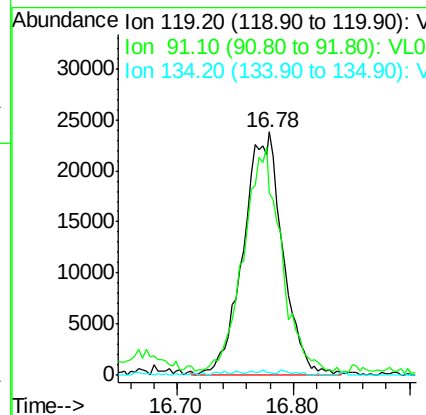
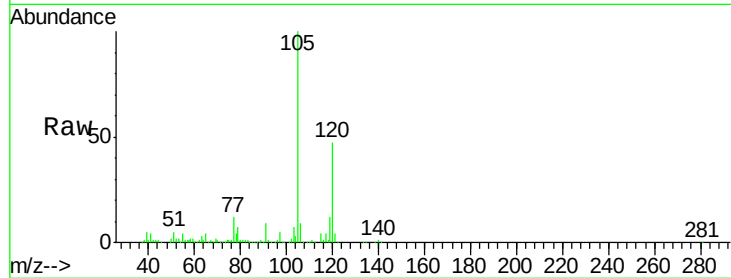
ClientSampleId :

02-WHDUP

Tot Ion:	119	Resp:	56045
Ion Ratio	Lower	Upper	
119	100		
91	0.0	58.6	87.8#
134	1.3	18.9	28.3#

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.593 ppbv

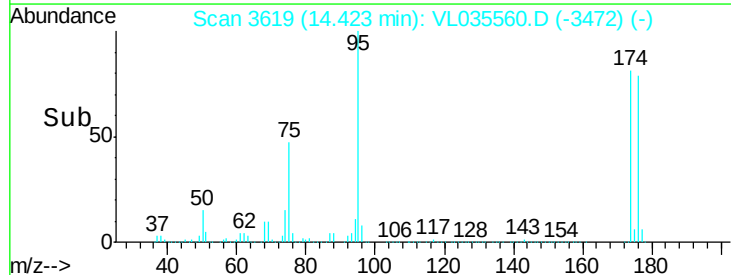
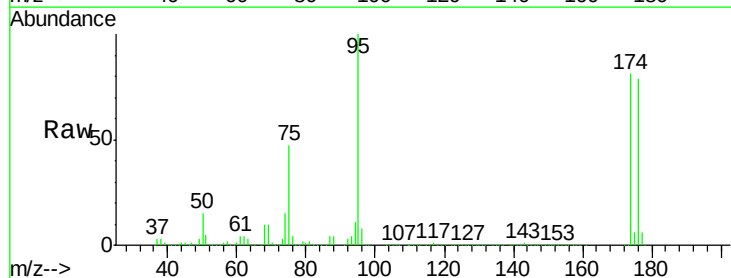
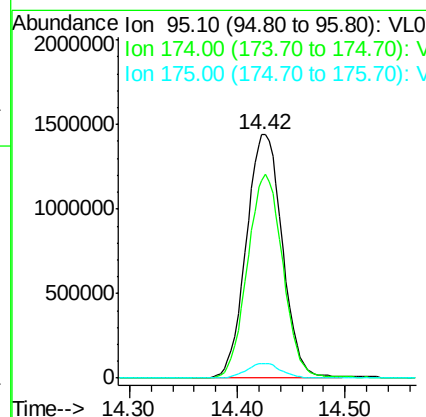
RT: 14.42 min Scan# 3619

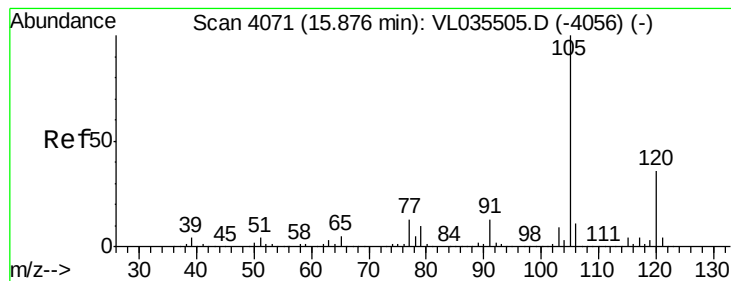
Delta R.T. -0.03 min

Lab File: VL035560.D

Acq: 8 Sep 2020 17:30

Tgt Ion:	95	Resp:	3346769
Ion Ratio	Lower	Upper	
95	100		
174	82.9	69.6	104.4
175	6.0	5.1	7.7





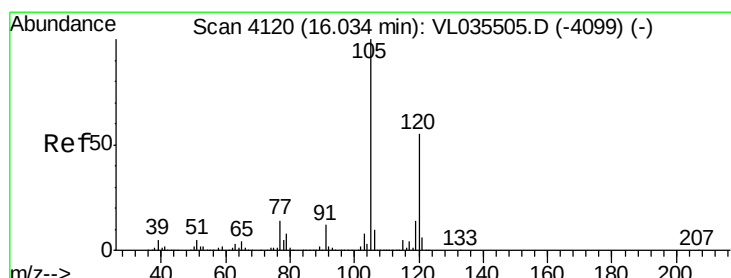
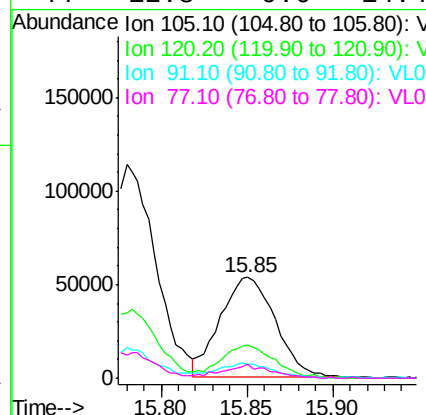
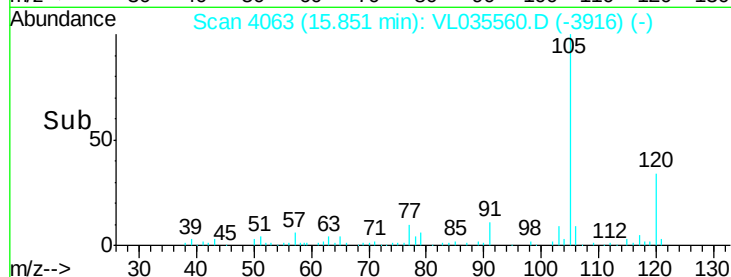
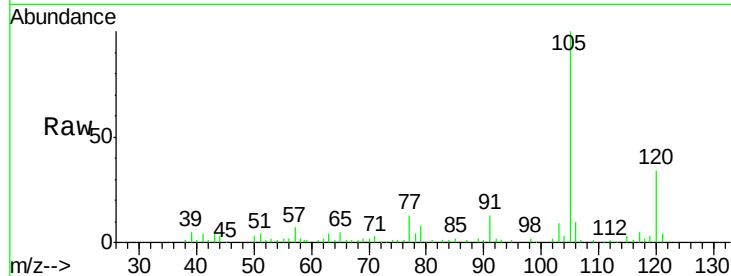
#72
4-Ethyltoluene
Concen: 0.243 ppbv
RT: 15.85 min Scan# 4063
Delta R.T. -0.03 min
Lab File: VL035560.D
Acq: 8 Sep 2020 17:30

Instrument :
MSVOA_L
ClientSampleId :
02-WHDUP

Tot Ion	Ratio	Lower	Upper
105	100		
120	32.2	27.4	41.2
91	14.2	9.7	14.5
77	12.8	9.6	14.4

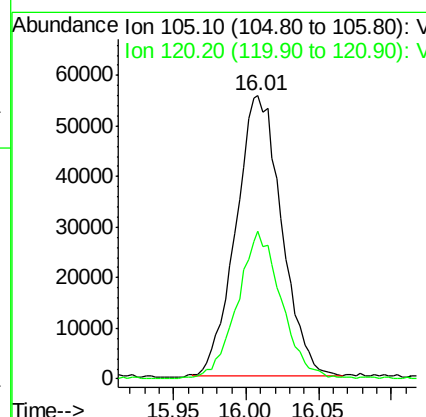
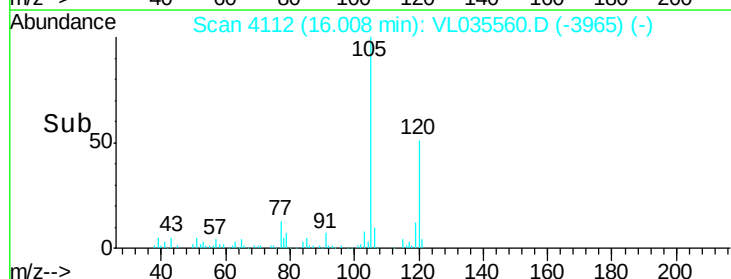
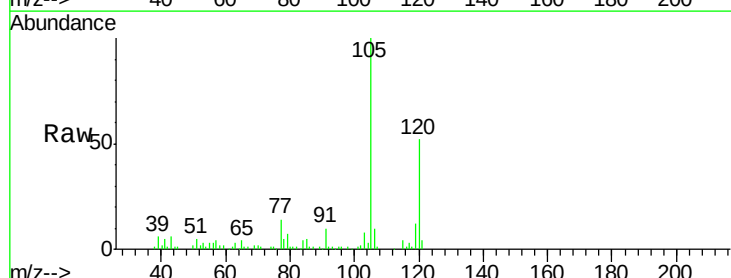
Manual Integrations
APPROVED

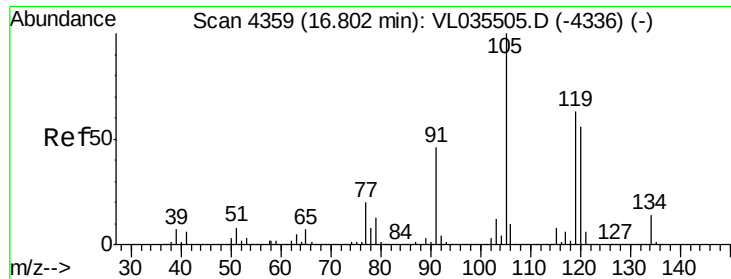
MMDadoda
9/10/2020 10:45:26 AM



#73
1,3,5-Trimethylbenzene
Concen: 0.267 ppbv
RT: 16.01 min Scan# 4112
Delta R.T. -0.03 min
Lab File: VL035560.D
Acq: 8 Sep 2020 17:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.3	44.2	66.2





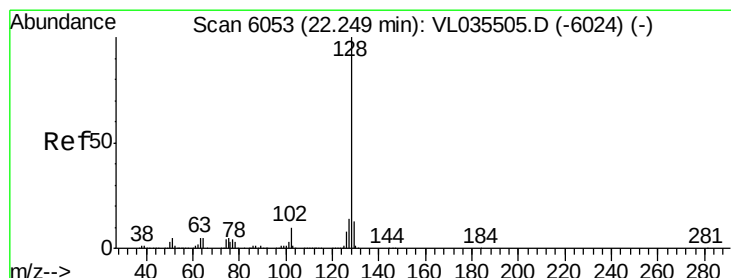
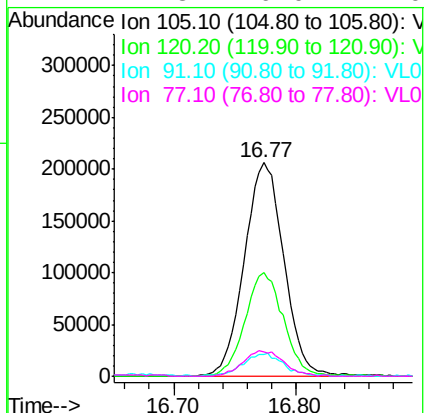
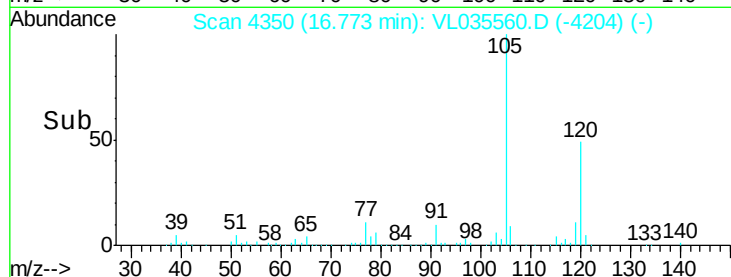
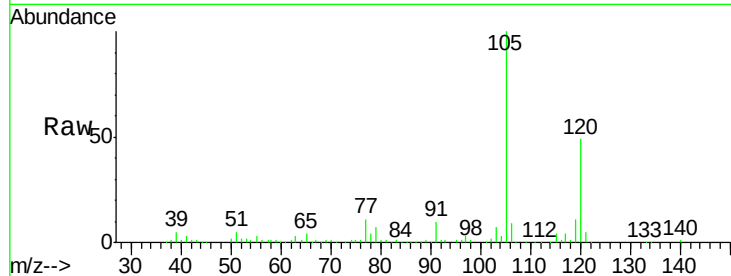
#74
 1,2,4-Trimethylbenzene
 Concen: 0.921 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. -0.03 min
 Lab File: VL035560.D
 Acq: 8 Sep 2020 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 02-WHDUP

Tot Ion	Ratio	Resp	Lower	Upper
105	100	459190		
120	48.9		44.4	66.6
91	9.9		37.1	55.7#
77	11.3		16.0	24.0#

Manual Integrations
 APPROVED

MMDadoda
 9/10/2020 10:45:26 AM



#79
 Naphthalene
 Concen: 0.096 ppbv m
 RT: 22.23 min Scan# 6047
 Delta R.T. -0.02 min
 Lab File: VL035560.D
 Acq: 8 Sep 2020 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	53310		
127	11.7		11.4	17.2
129	11.1		10.5	15.7

