

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035559.D
 Acq On : 8 Sep 2020 16:48
 Operator : SY/AP
 Sample : L3936-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 02-WH

Manual Integrations
 APPROVED

MMDadoda
 9/10/2020 10:45:24 AM

Quant Time: Sep 09 08:59:52 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	1014468	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4300053	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4302145	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3232898	10.58	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	53448	0.304	ppbv	90
3) Chlorodifluoromethane	2.98	51	44773m	0.399	ppbv	
4) Chloromethane	3.13	50	31521	0.524	ppbv	100
9) Propene	3.01	41	1909539m	44.147	ppbv	
10) Heptane	8.13	43	61541	0.530	ppbv	99
11) Trichlorofluoromethane	3.94	101	65355	0.255	ppbv	99
13) Ethanol	3.60	45	693719	64.685	ppbv	97
15) Acetone	3.84	43	1960112	17.519	ppbv	99
19) Isopropyl Alcohol	3.97	45	209036	3.132	ppbv #	1
20) Methylene Chloride	4.34	84	422572	5.071	ppbv	97
26) Hexane	5.68	57	209545	1.871	ppbv #	55
27) Carbon Disulfide	4.55	76	57532	0.358	ppbv #	90
30) Cyclohexane	7.13	84	21633	0.180	ppbv #	31
34) 2-Butanone	5.24	43	167243	1.311	ppbv	99
35) Carbon Tetrachloride	7.01	117	15019	0.069	ppbv #	84
36) Benzene	6.89	78	141500	0.508	ppbv	99
44) 2,2,4-Trimethylpentane	7.87	57	297697	0.813	ppbv	91
50) 4-Methyl-2-Pentanone	8.76	43	69569m	0.376	ppbv	
52) Tetrachloroethene	11.23	164	12723	0.078	ppbv	90
53) Toluene	9.81	91	5077598	14.506	ppbv	97
58) Ethyl Benzene	12.72	91	264472	0.596	ppbv	93
59) m/p-Xylene	12.97	91	868874	2.344	ppbv	96
60) o-Xylene	13.70	91	282481	0.757	ppbv	97
61) Styrene	13.54	104	74686m	0.262	ppbv	
64) n-propylbenzene	15.57	120	19916m	0.109	ppbv	
65) tert-Butylbenzene	16.78	119	54931	0.099	ppbv #	70
72) 4-Ethyltoluene	15.85	105	119583	0.252	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.01	105	117284	0.267	ppbv	94
74) 1,2,4-Trimethylbenzene	16.78	105	450716	0.935	ppbv #	72
79) Naphthalene	22.22	128	54866	0.103	ppbv #	93

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

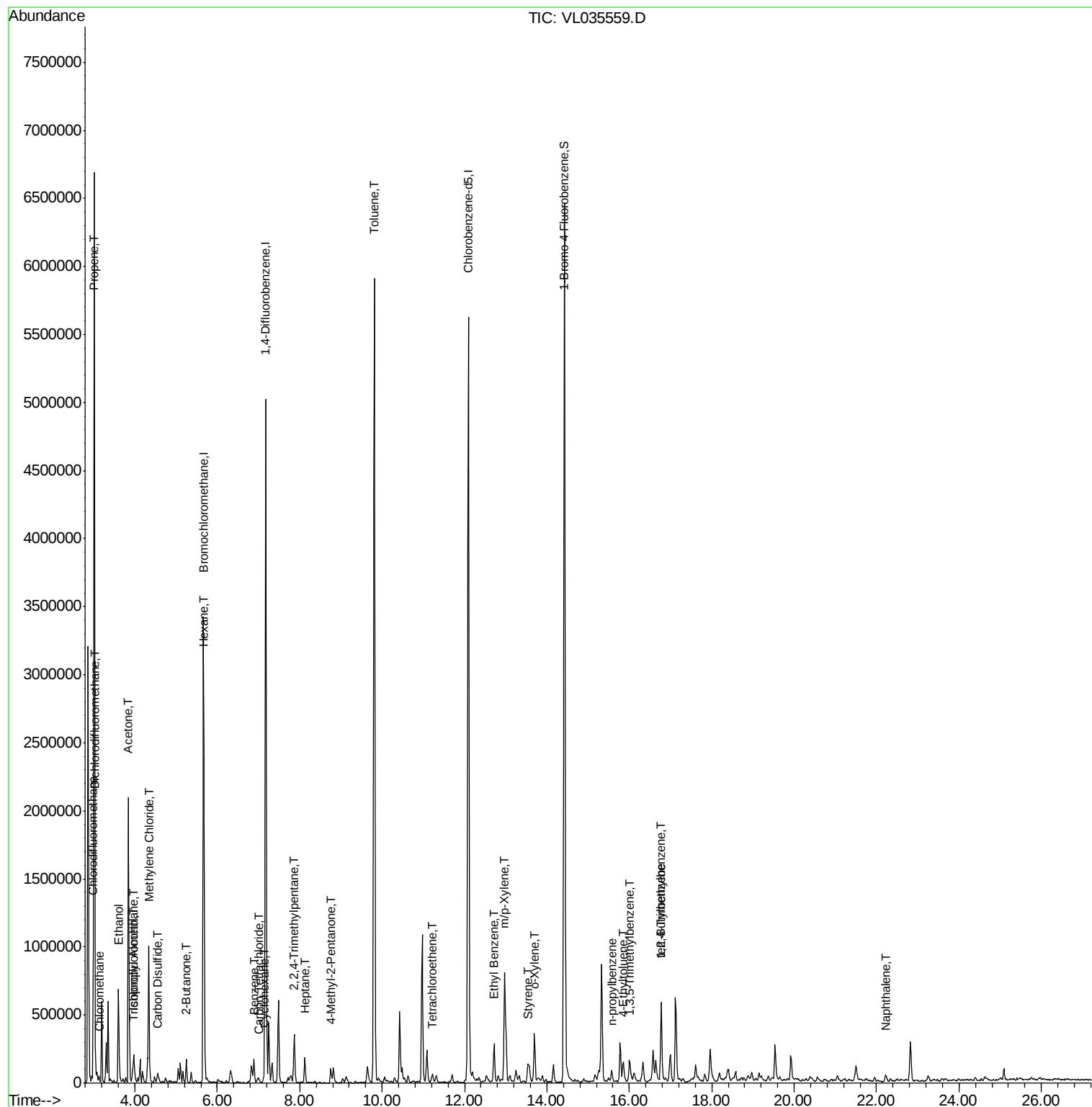
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090820\
Data File : VL035559.D
Acq On : 8 Sep 2020 16:48
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9/10/2020 10:45:24 AM

Quant Time: Sep 09 08:59:52 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





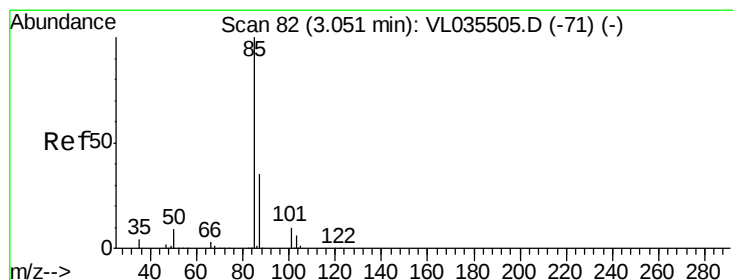
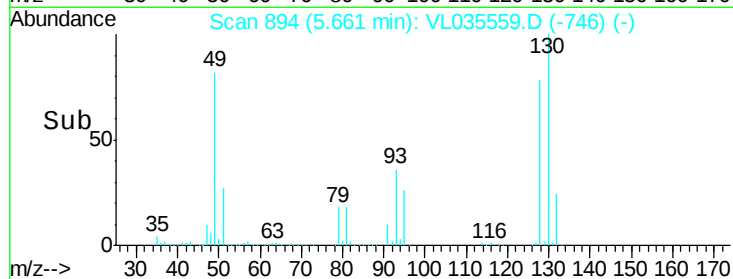
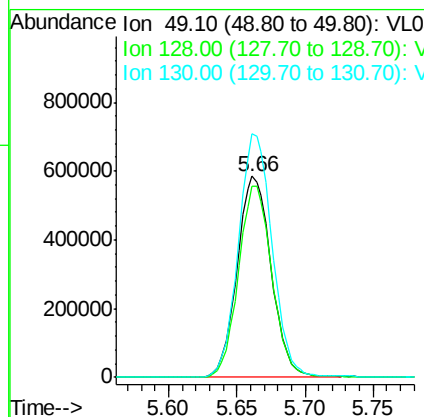
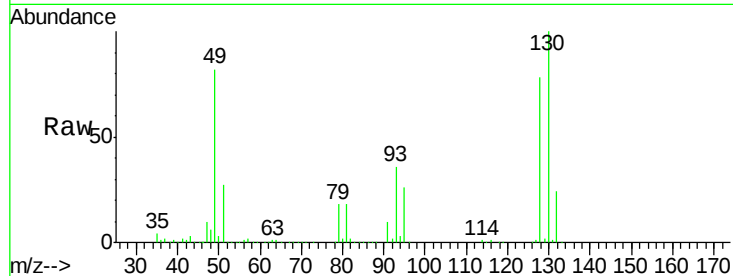
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL035559.D
Acq: 8 Sep 2020 16:48

Instrument :
MSVOA_L
ClientSampleId :
02-WH

Tot Ion: 49 Resp: 1014468
Ion Ratio Lower Upper
49 100
128 94.1 50.0 150.1
130 120.8 64.4 193.2

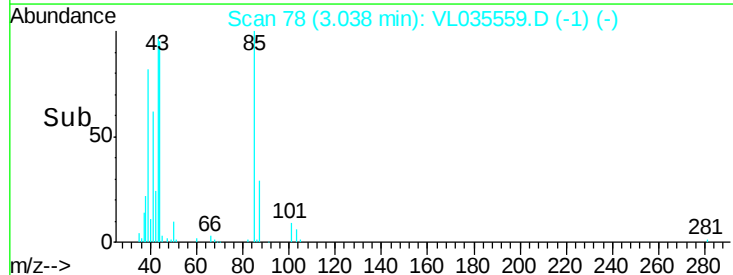
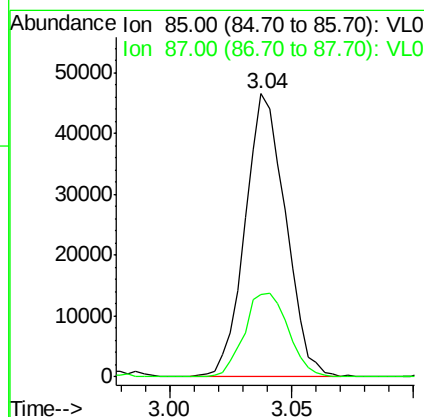
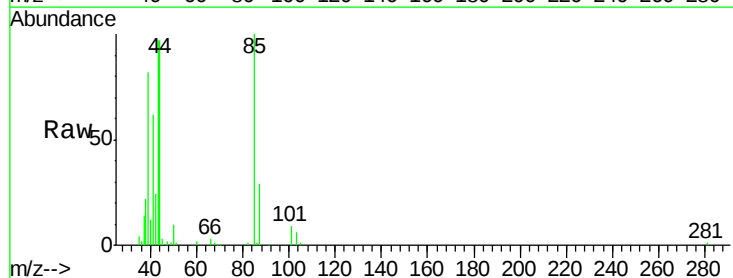
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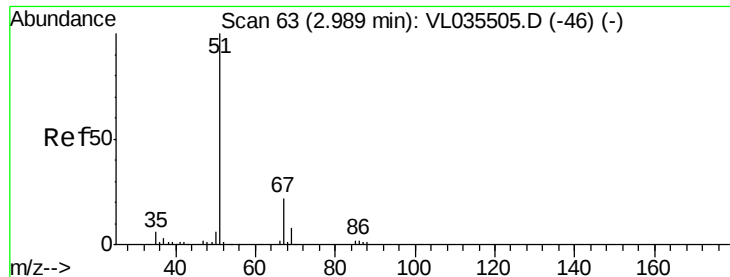
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#2
Dichlorodifluoromethane
Concen: 0.304 ppbv
RT: 3.04 min Scan# 78
Delta R.T. -0.01 min
Lab File: VL035559.D
Acq: 8 Sep 2020 16:48

Tgt Ion: 85 Resp: 53448
Ion Ratio Lower Upper
85 100
87 29.3 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.399 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

ClientSampleId :

02-WH

Tot Ion: 51 Resp: 44773

Ion Ratio Lower Upper

51 100

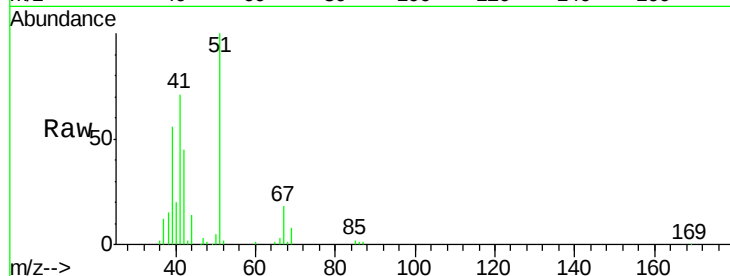
67 23.0 17.8 26.8

Manual Integrations

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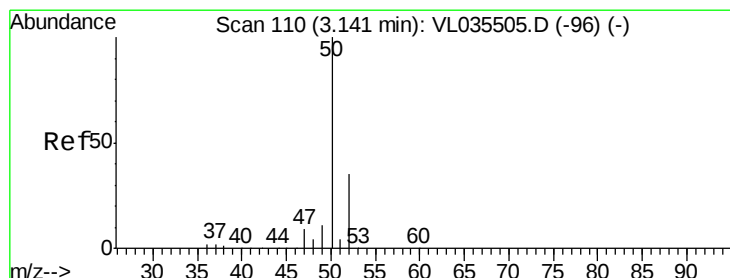
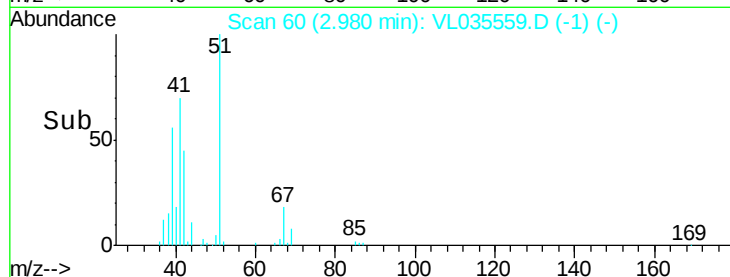
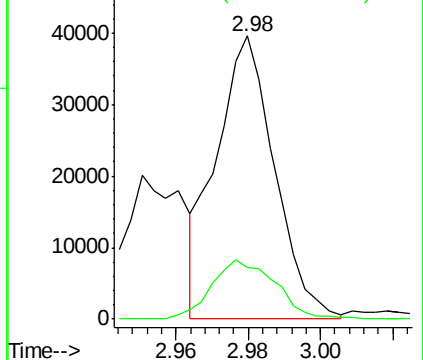
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.524 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035559.D

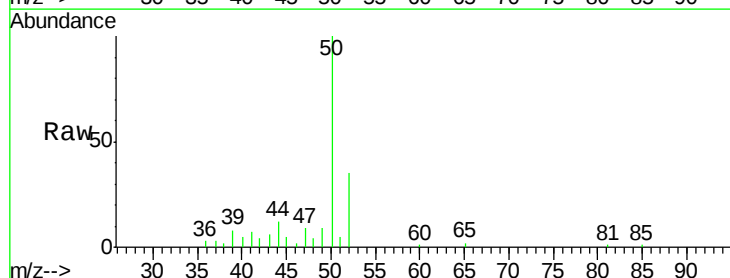
Acq: 8 Sep 2020 16:48

Tgt Ion: 50 Resp: 31521

Ion Ratio Lower Upper

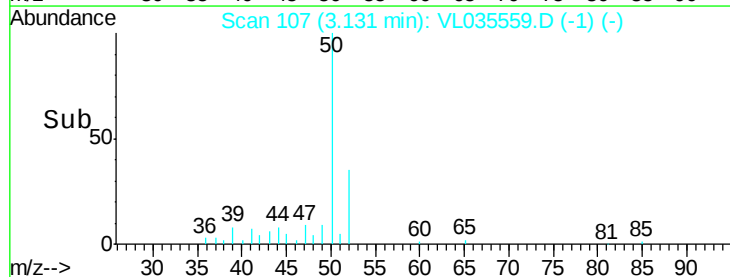
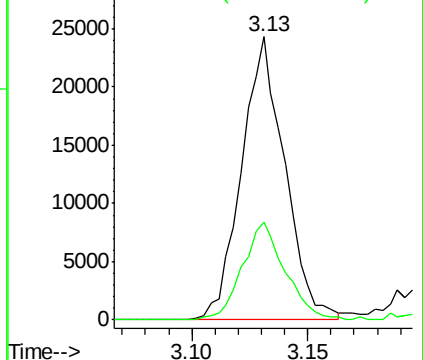
50 100

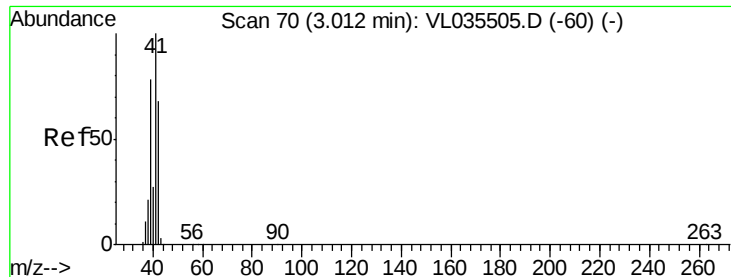
52 34.7 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 44.147 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

ClientSampleId :

02-WH

Tot Ion: 41 Resp: 1909539

Ion Ratio Lower Upper

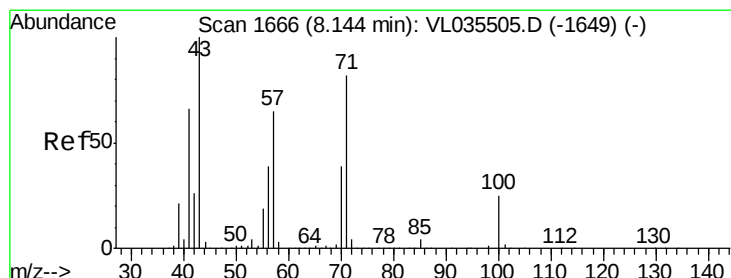
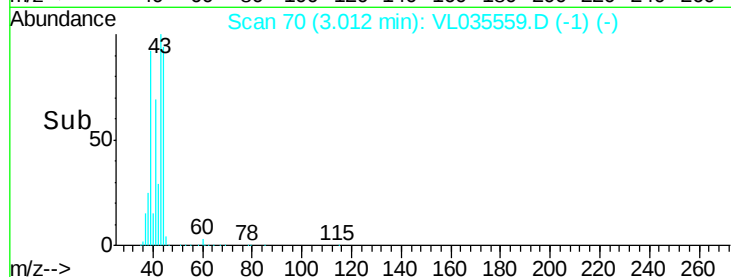
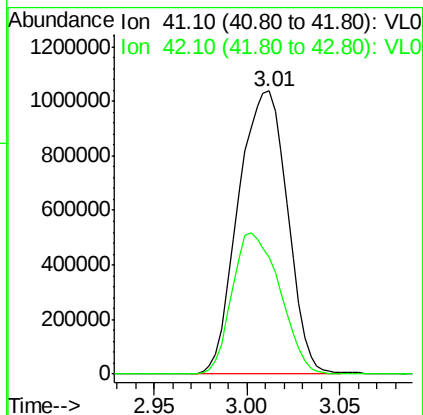
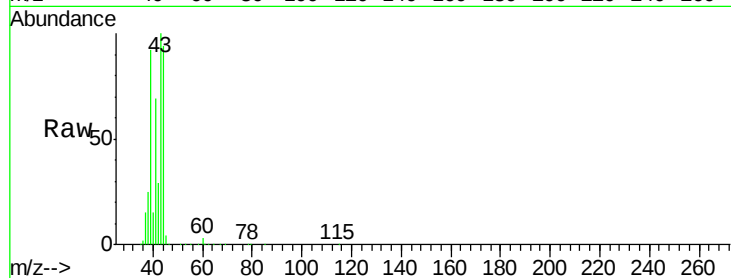
41 100

42 4.9 56.3 84.5#

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#10

Heptane

Concen: 0.530 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.02 min

Lab File: VL035559.D

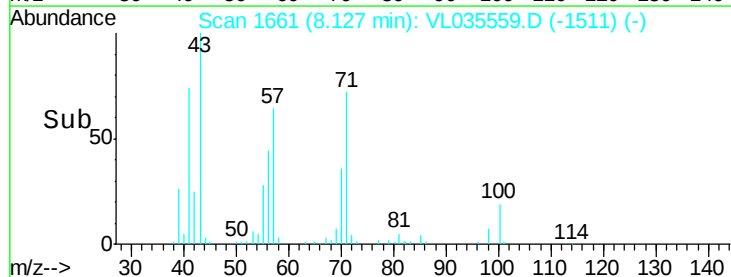
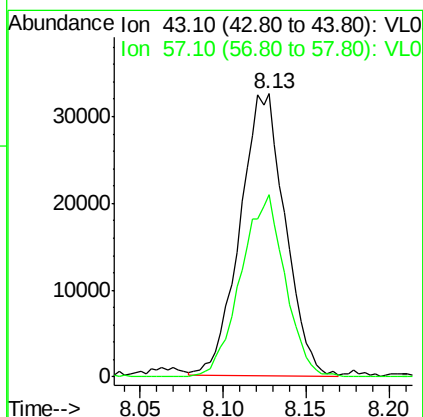
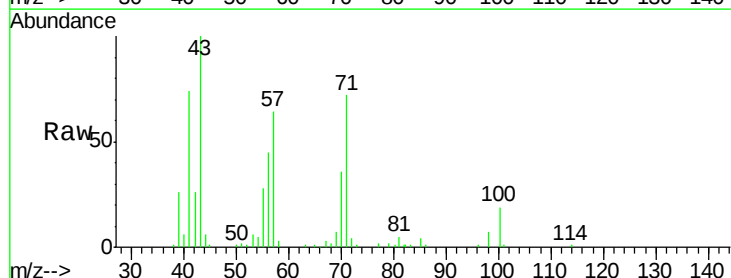
Acq: 8 Sep 2020 16:48

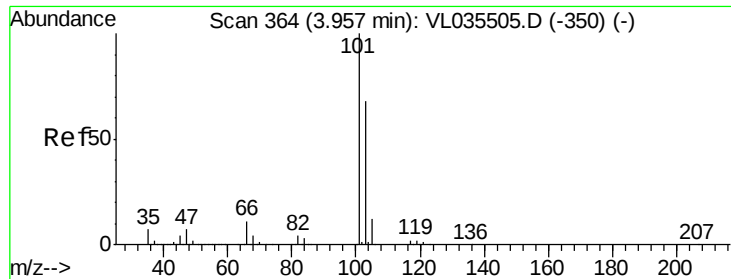
Tgt Ion: 43 Resp: 61541

Ion Ratio Lower Upper

43 100

57 63.5 51.4 77.0





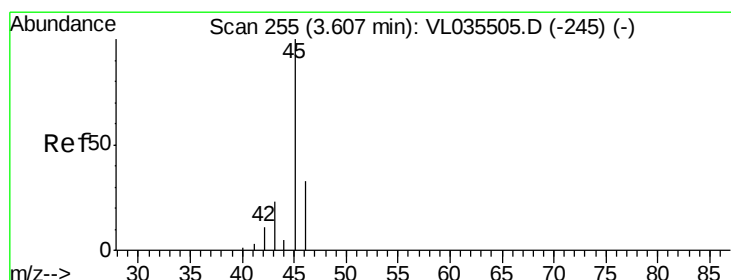
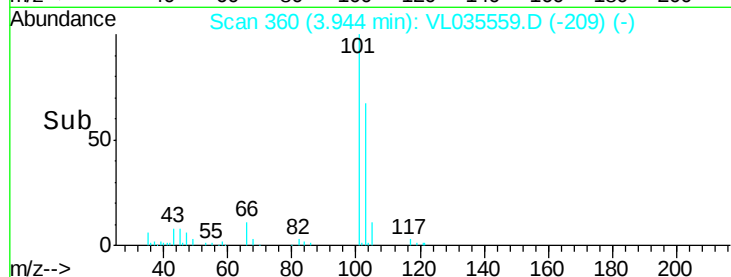
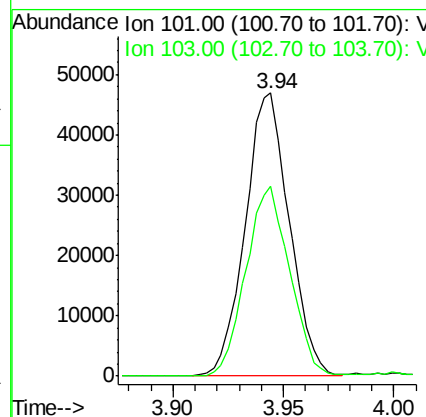
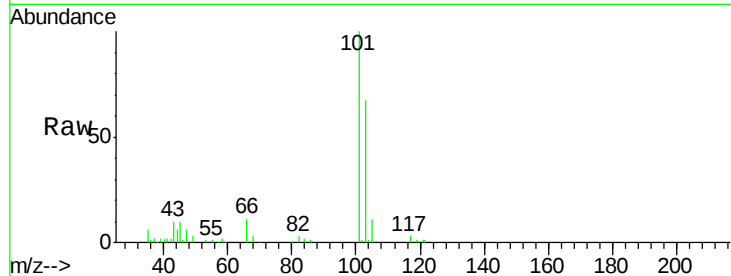
#11
 Trichlorofluoromethane
 Concen: 0.255 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL035559.D
 Acq: 8 Sep 2020 16:48

Instrument :
 MSVOA_L
 ClientSampled :
 02-WH

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		65355		
103	67.0	54.5	81.7		

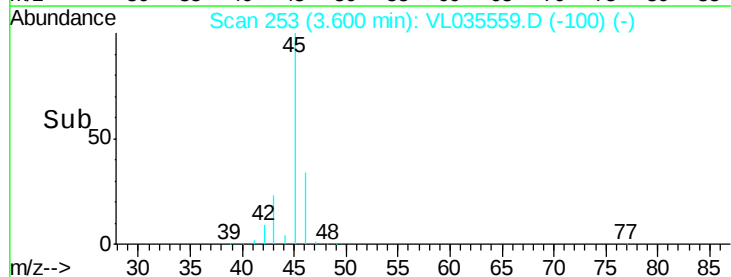
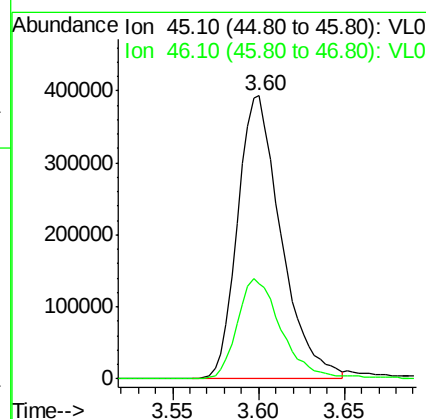
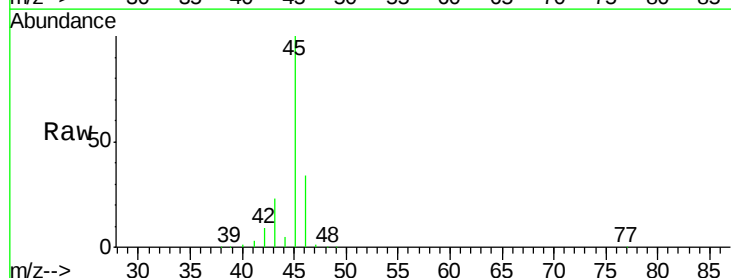
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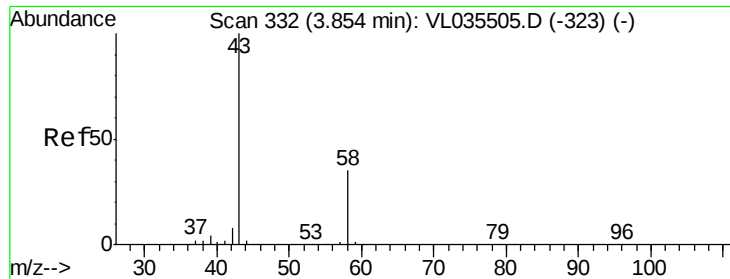
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#13
 Ethanol
 Concen: 64.685 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL035559.D
 Acq: 8 Sep 2020 16:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		693719		
46	36.4	15.2	60.6		





#15

Acetone

Concen: 17.519 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

ClientSampled :

02-WH

Tot Ion: 43 Resp: 1960112

Ion Ratio Lower Upper

43 100

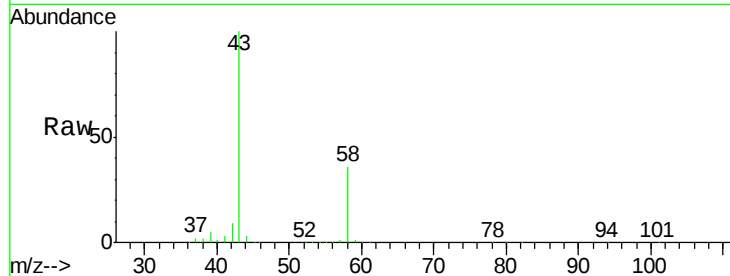
58 35.2 28.4 42.6

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1500000

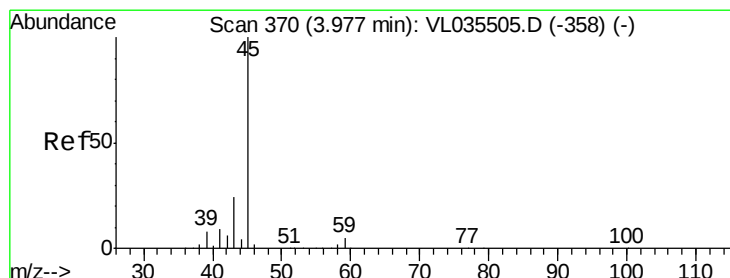
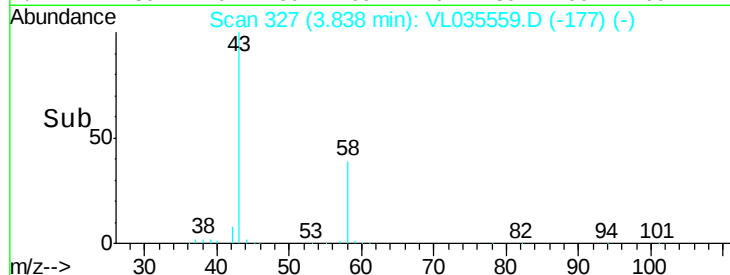
1000000

500000

0

Time-->

3.75 3.80 3.85 3.90 3.95



#19

Isopropyl Alcohol

Concen: 3.132 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.01 min

Lab File: VL035559.D

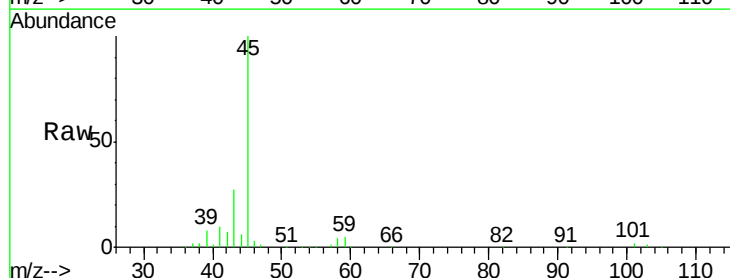
Acq: 8 Sep 2020 16:48

Tgt Ion: 45 Resp: 209036

Ion Ratio Lower Upper

45 100

58 331.8 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

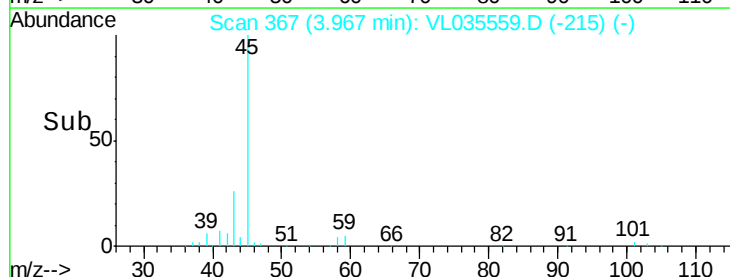
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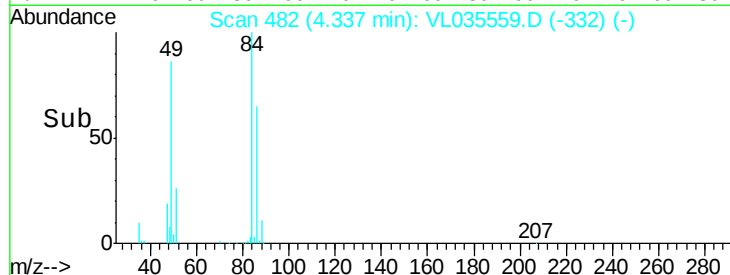
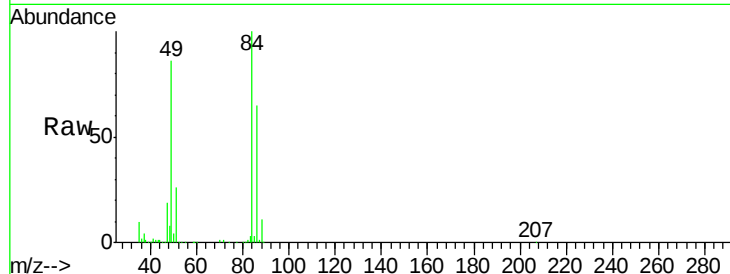
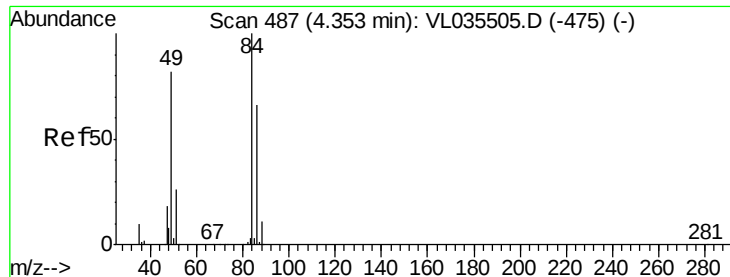
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Time-->

3.90 3.95 4.00 4.05





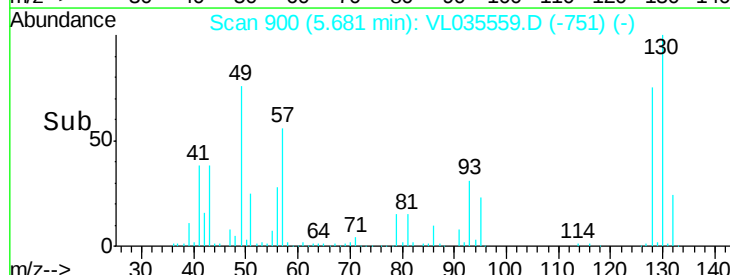
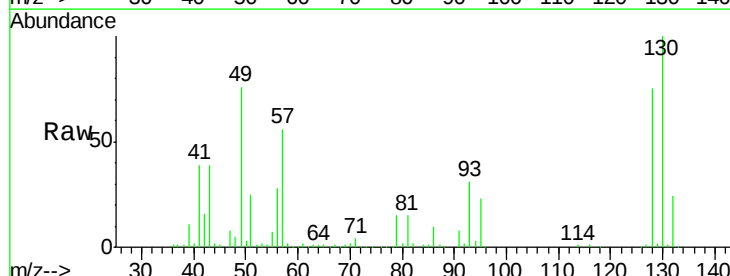
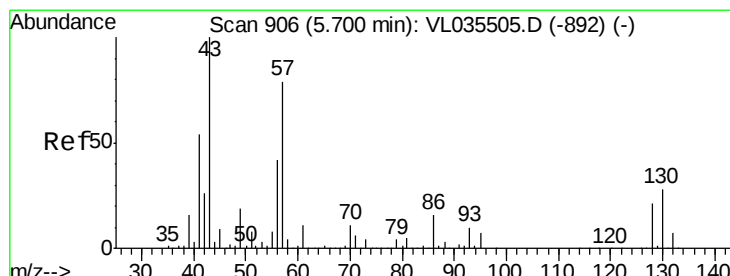
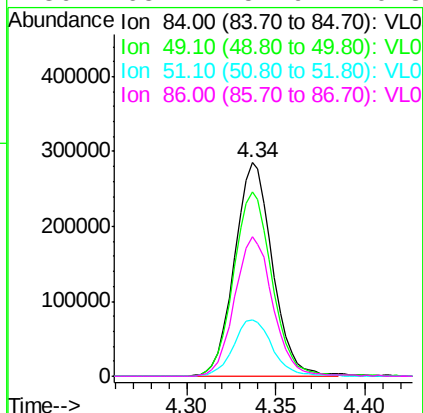
#20
Methvlene Chloride
Concen: 5.071 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.02 min
Lab File: VL035559.D
Acq: 8 Sep 2020 16:48

Tot Ion:	84	Resp:	422572
Ion Ratio	Lower	Upper	
84	100		
49	86.1	65.4	98.0
51	26.0	21.5	32.3
86	65.1	52.9	79.3

Instrument :
MSVOA_L
ClientSampleId :
02-WH

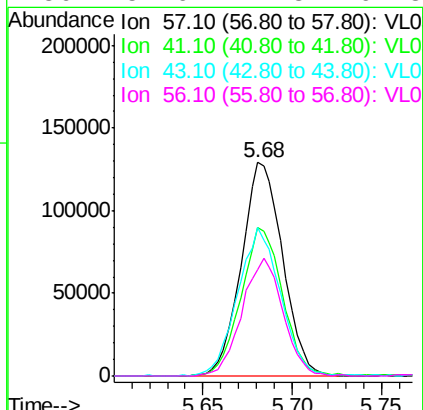
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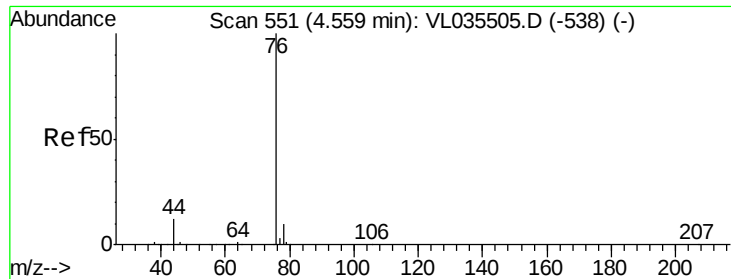
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#26
Hexane
Concen: 1.871 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.02 min
Lab File: VL035559.D
Acq: 8 Sep 2020 16:48

Tgt Ion:	57	Resp:	209545
Ion Ratio	Lower	Upper	
57	100		
41	70.5	55.9	83.9
43	71.8	141.8	212.8#
56	54.6	41.8	62.8





#27

Carbon Disulfide

Concen: 0.358 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

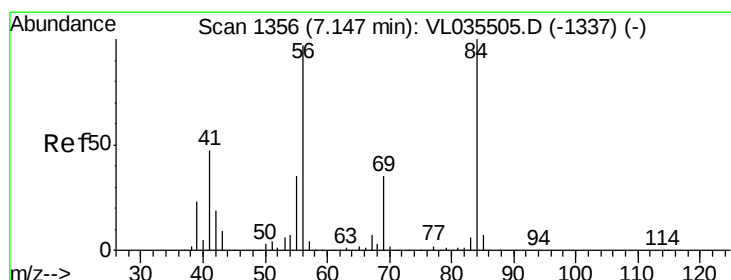
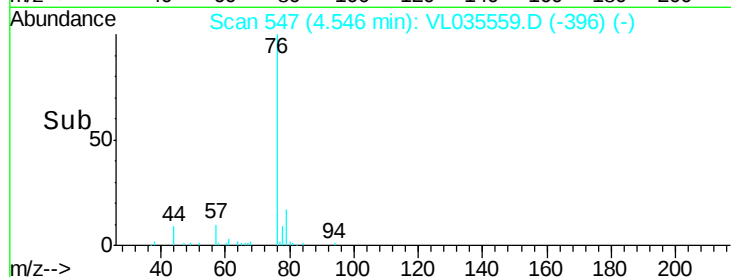
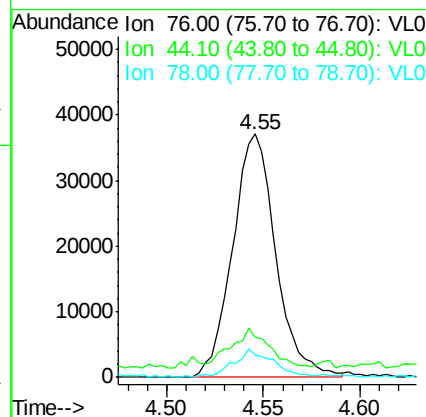
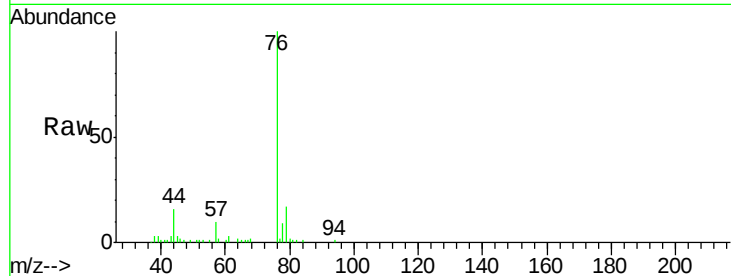
ClientSampleId :

02-WH

Tot Ion:	76	Resp:	57532
Ion Ratio	Lower	Upper	
76	100		
44	17.3	9.3	13.9#
78	11.3	7.8	11.6

Manual Integrations
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9/10/2020 10:45:24 AM



#30

Cyclohexane

Concen: 0.180 ppbv

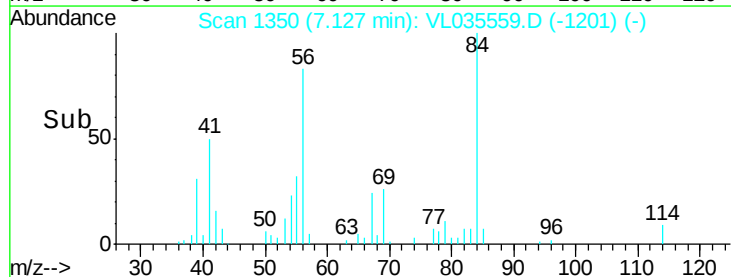
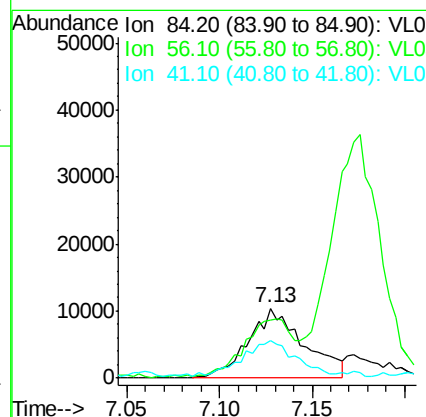
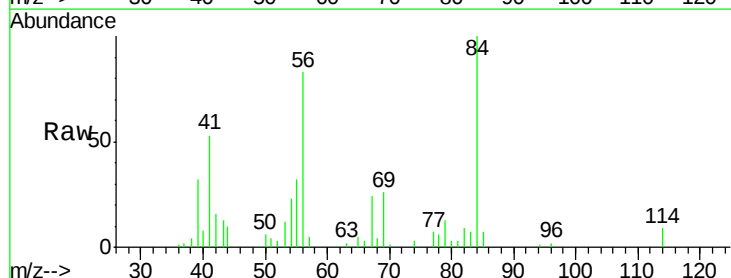
RT: 7.13 min Scan# 1350

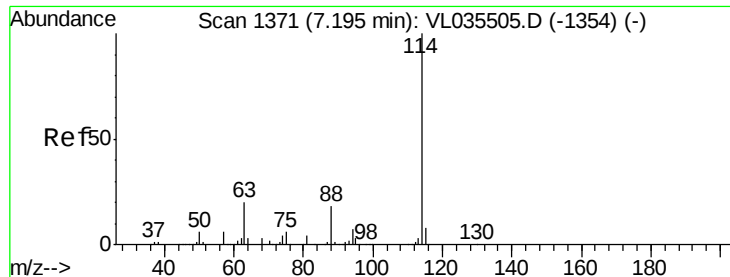
Delta R.T. -0.02 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Tgt Ion:	84	Resp:	21633
Ion Ratio	Lower	Upper	
84	100		
56	0.0	80.1	120.1#
41	50.4	38.1	57.1





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL035559.D
 Acq: 8 Sep 2020 16:48

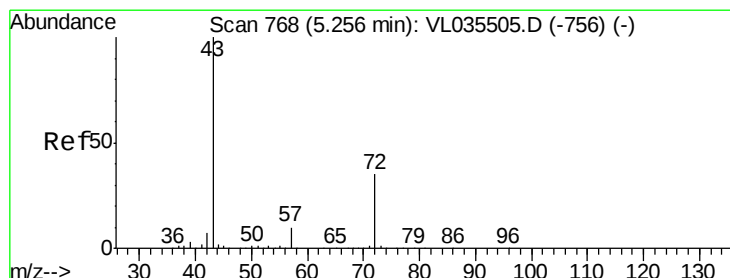
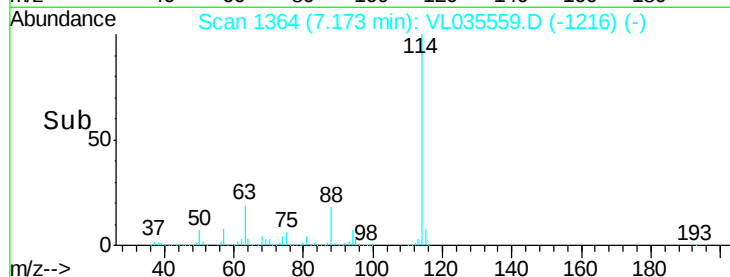
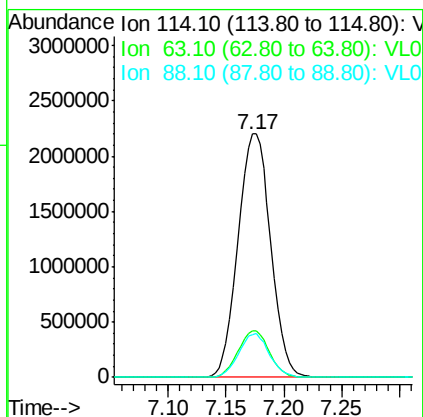
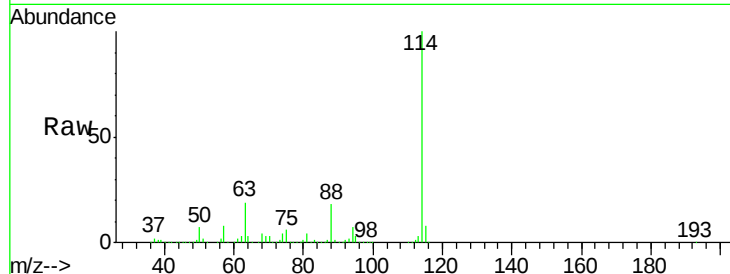
Instrument :
 MSVOA_L
 ClientSampled :
 02-WH

Tot Ion:114 Resp: 4300053

Ion	Ratio	Lower	Upper
114	100		
63	18.3	14.7	22.1
88	16.9	13.4	20.2

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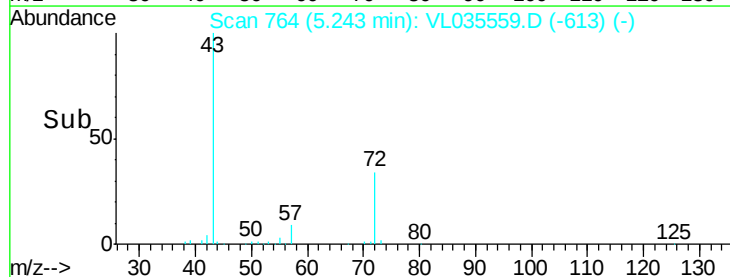
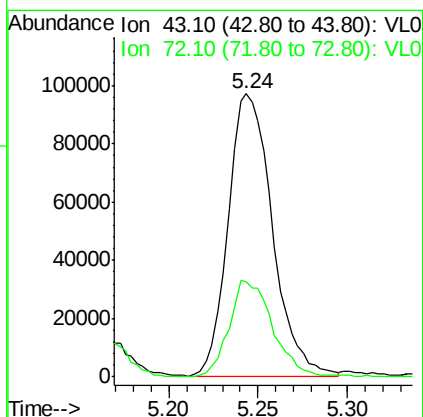
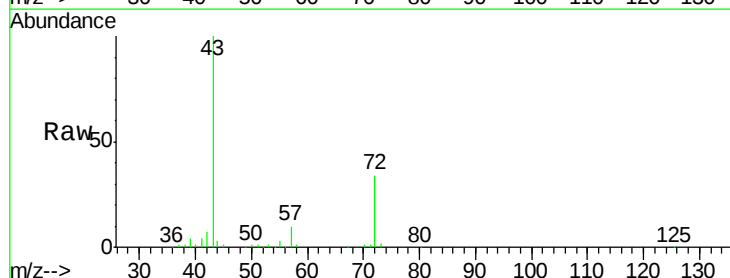
MMDadoda
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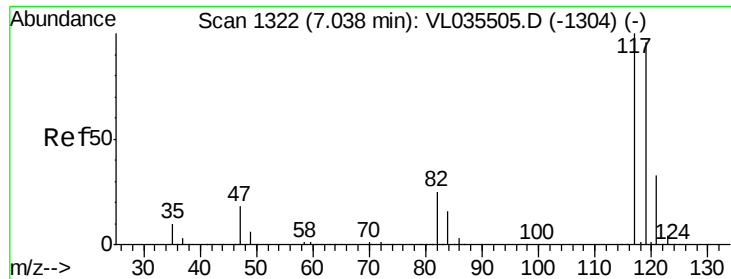


#34
 2-Butanone
 Concen: 1.311 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL035559.D
 Acq: 8 Sep 2020 16:48

Tgt Ion: 43 Resp: 167243

Ion	Ratio	Lower	Upper
43	100		
72	34.2	27.7	41.5





#35

Carbon Tetrachloride

Concen: 0.069 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

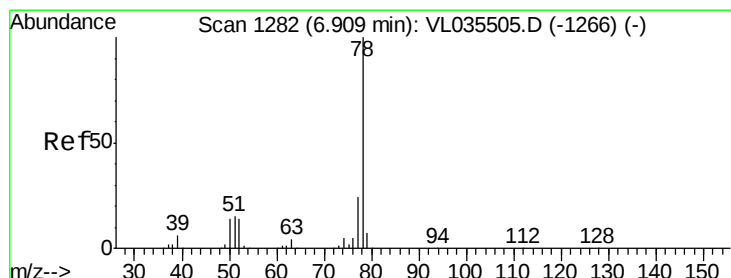
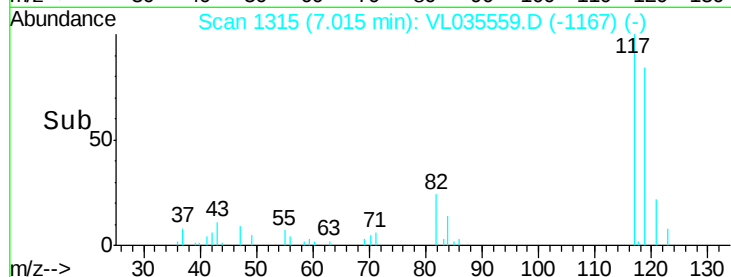
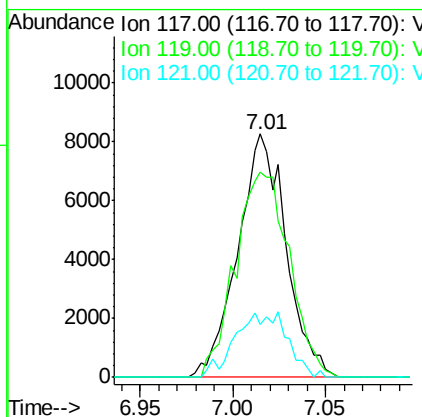
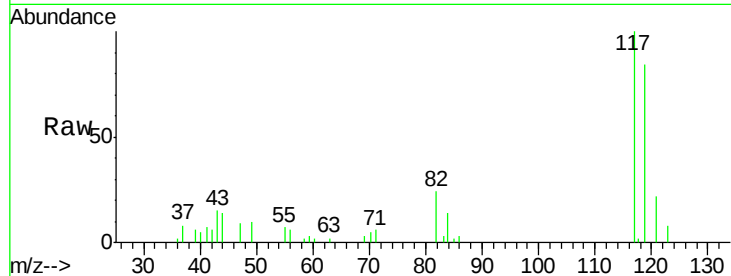
ClientSampleId :

02-WH

Tot Ion	Ratio	Lower	Upper
117	100		
119	82.4	77.2	115.8
121	21.3	26.1	39.1#

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#36

Benzene

Concen: 0.508 ppbv

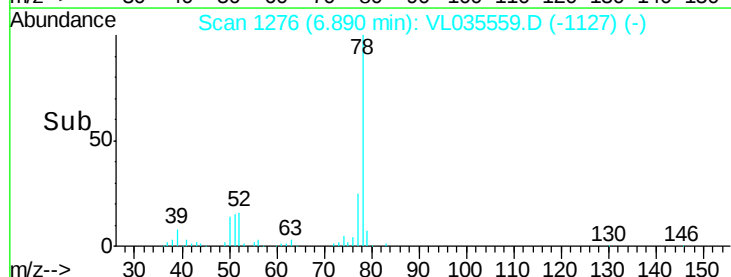
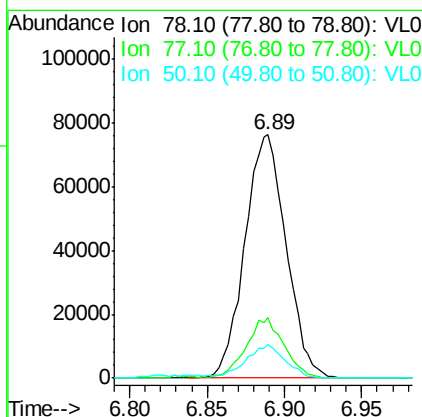
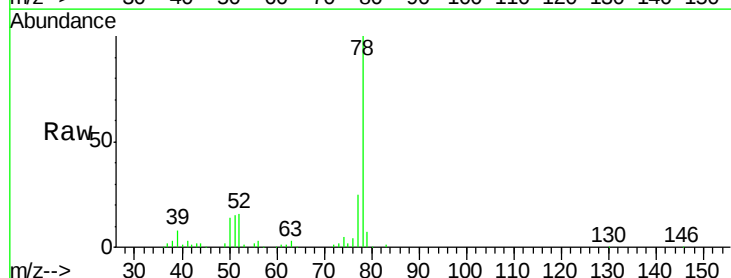
RT: 6.89 min Scan# 1276

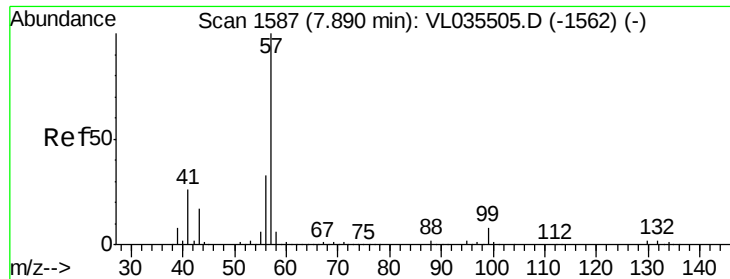
Delta R.T. -0.02 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	19.3	28.9
50	13.9	11.0	16.6





#44

2,2,4-Trimethylpentane

Concen: 0.813 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.02 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

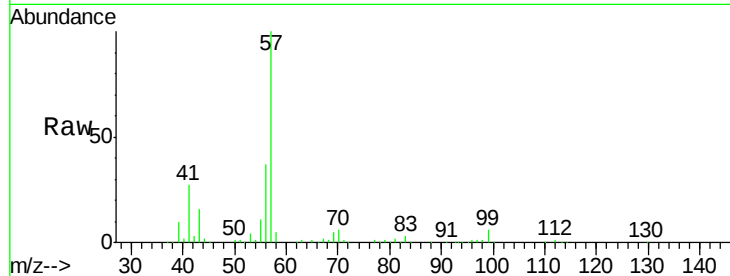
ClientSampleId :

02-WH

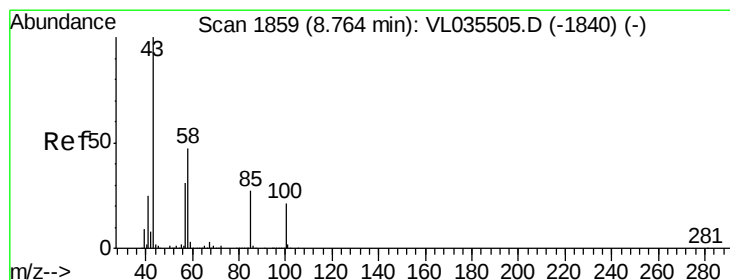
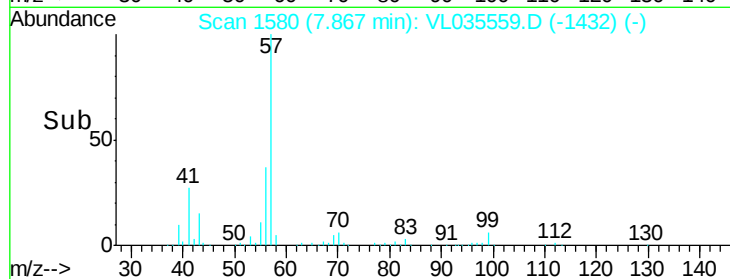
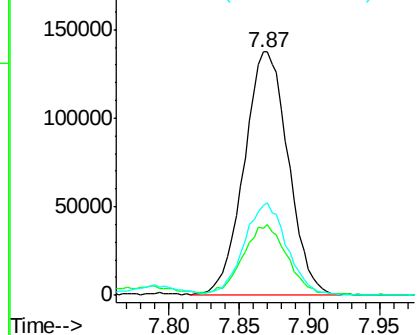
Tot Ion:	57	Resp:	297697
Ion Ratio	Lower	Upper	
57	100		
41	29.2	20.5	30.7
56	37.6	25.3	37.9

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



#50

4-Methyl-2-Pentanone

Concen: 0.376 ppbv m

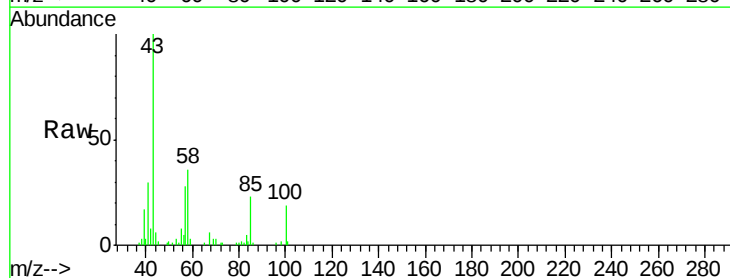
RT: 8.76 min Scan# 1857

Delta R.T. -0.01 min

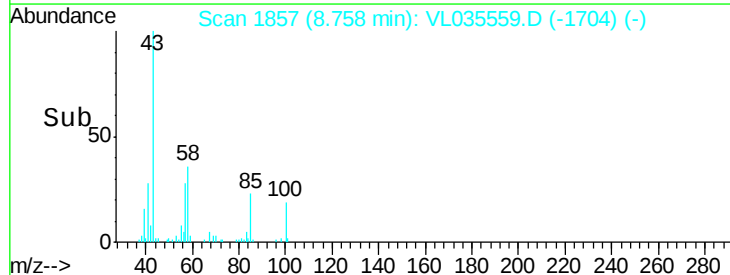
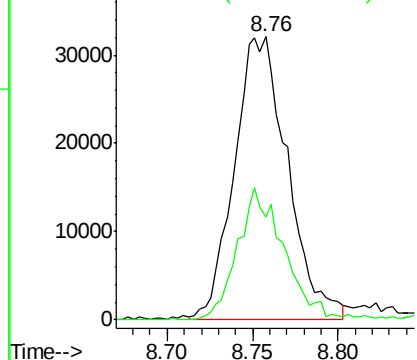
Lab File: VL035559.D

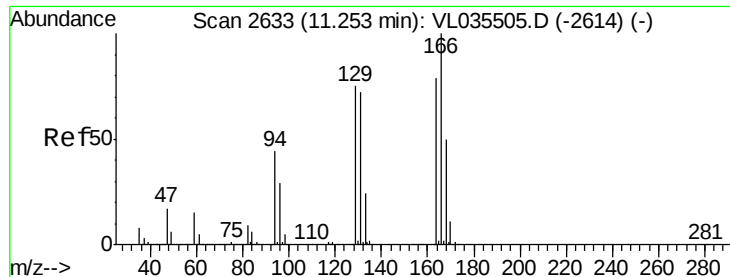
Acq: 8 Sep 2020 16:48

Tgt Ion:	43	Resp:	69569
Ion Ratio	Lower	Upper	
43	100		
58	41.3	37.4	56.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#52

Tetrachloroethene

Concen: 0.078 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.03 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

ClientSampleId :

02-WH

Tot Ion:164 Resp: 12723

Ion Ratio Lower Upper

164 100

166 130.8 100.9 151.3

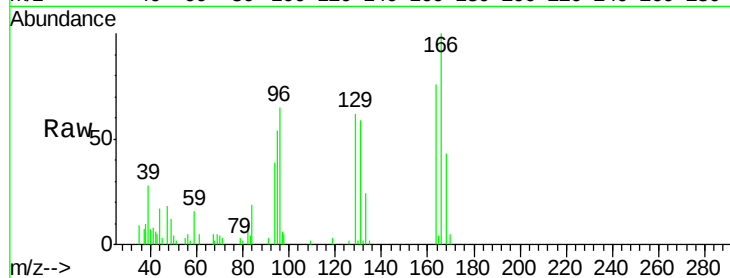
129 81.1 75.3 112.9

131 76.6 73.0 109.4

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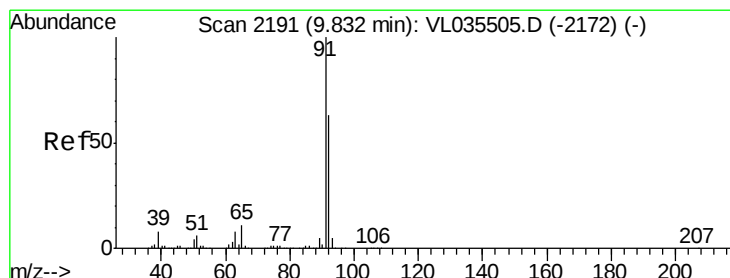
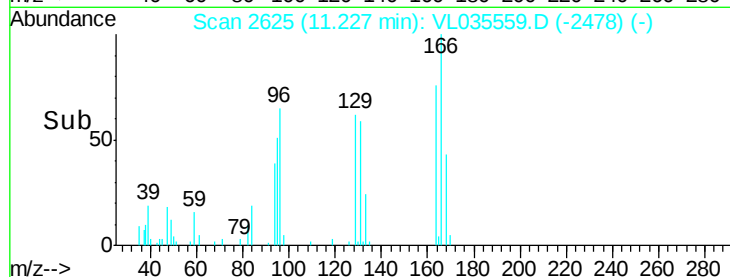
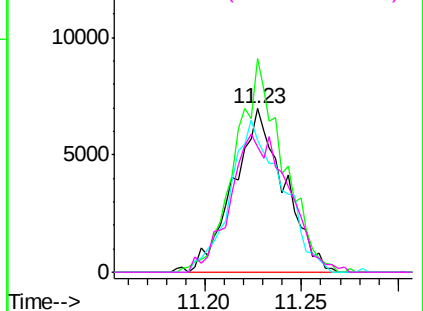


Abundance Ion 163.90 (163.60 to 164.60): V

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: 14.506 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035559.D

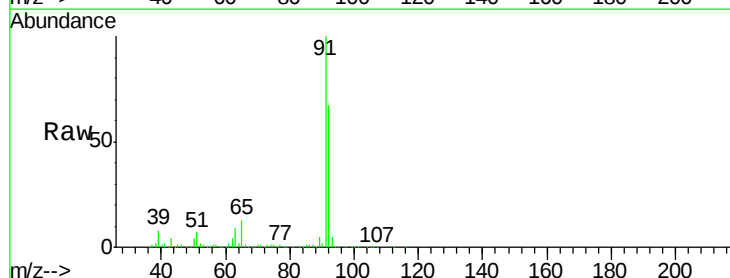
Acq: 8 Sep 2020 16:48

Tgt Ion: 91 Resp: 5077598

Ion Ratio Lower Upper

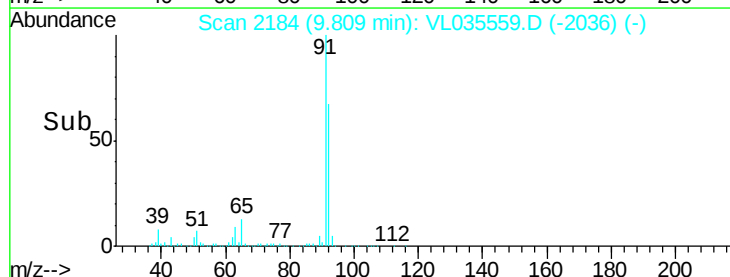
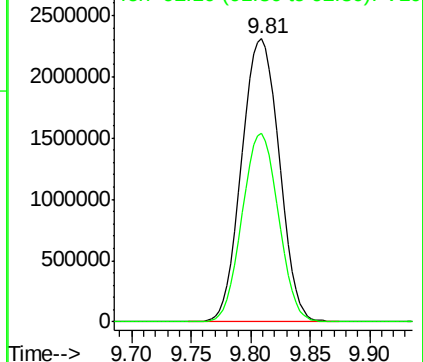
91 100

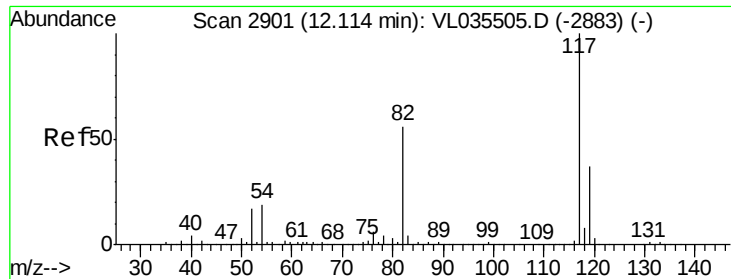
92 64.4 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





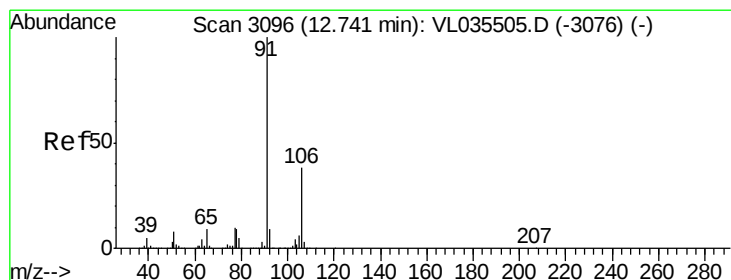
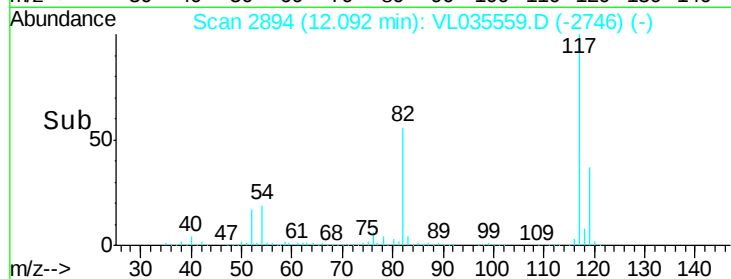
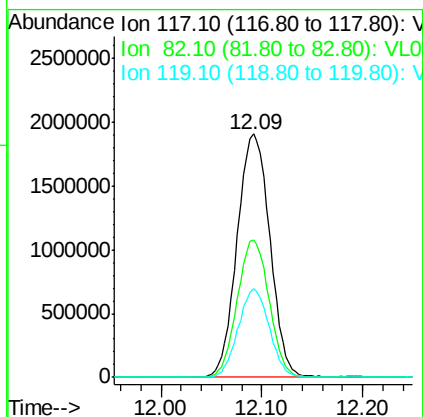
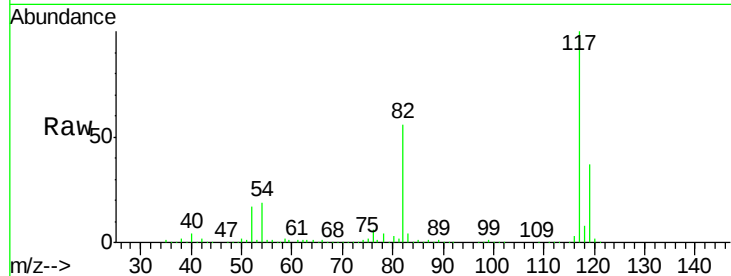
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.02 min
Lab File: VL035559.D
Acq: 8 Sep 2020 16:48

Instrument :
MSVOA_L
ClientSampleId :
02-WH

Tot Ion: 117 Resp: 4302145
Ion Ratio Lower Upper
117 100
82 54.9 41.6 62.4
119 34.6 29.3 43.9

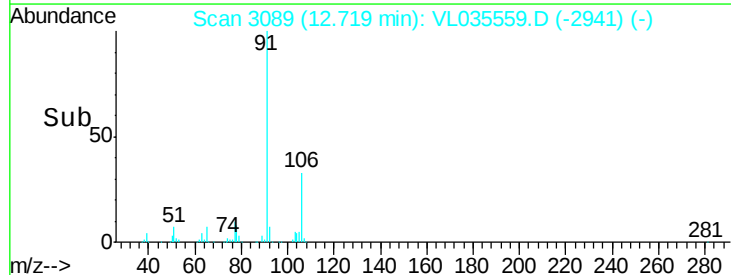
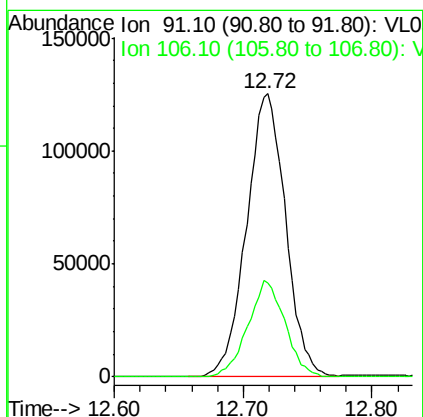
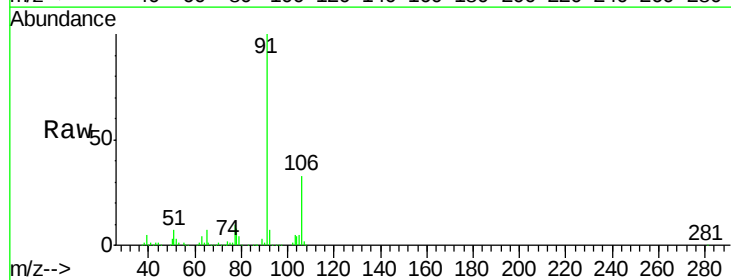
Manual Integrations
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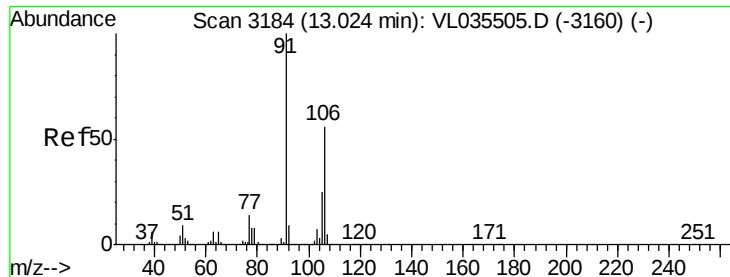
MMDadoda
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#58
Ethyl Benzene
Concen: 0.596 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. -0.02 min
Lab File: VL035559.D
Acq: 8 Sep 2020 16:48

Tgt Ion: 91 Resp: 264472
Ion Ratio Lower Upper
91 100
106 33.4 30.3 45.5





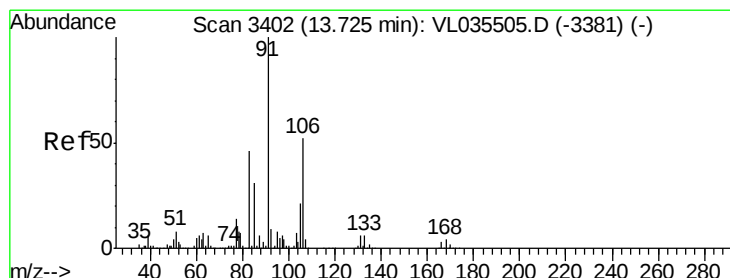
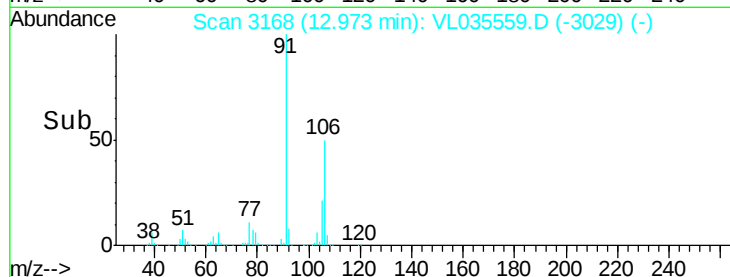
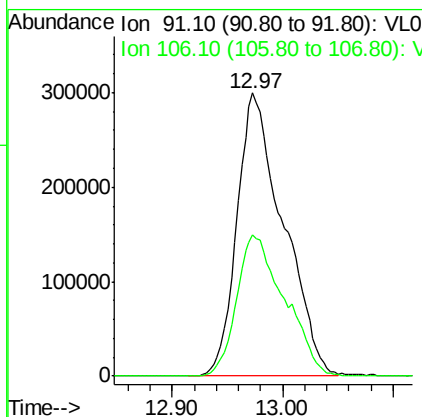
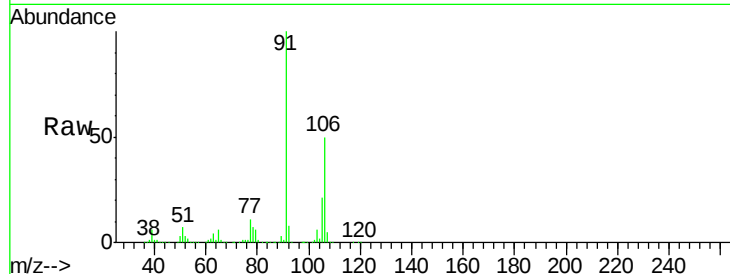
#59
m/p-Xylene
Concen: 2.344 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.05 min
Lab File: VL035559.D
Acq: 8 Sep 2020 16:48

Instrument :
MSVOA_L
ClientSampled :
02-WH

Tot Ion: 91 Resp: 868874
Ion Ratio Lower Upper
91 100
106 51.8 43.4 65.2

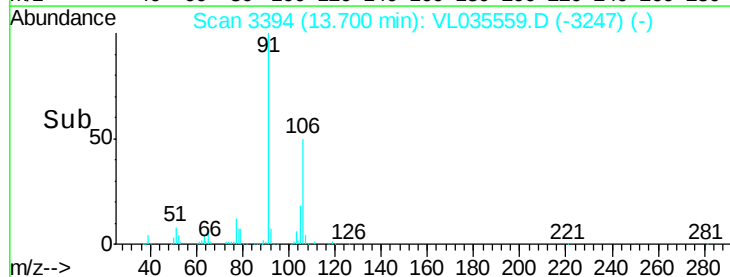
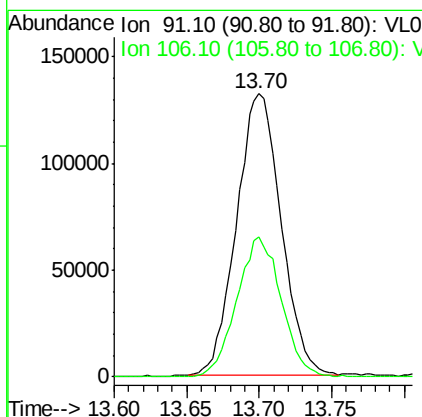
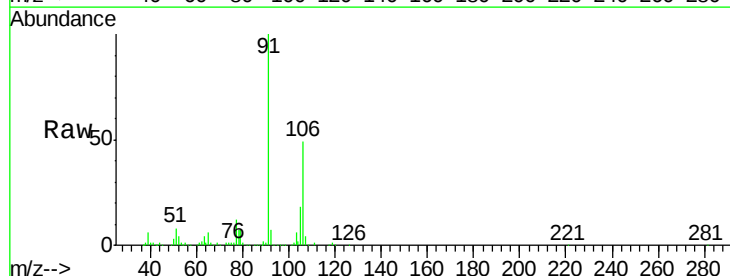
Manual Integrations
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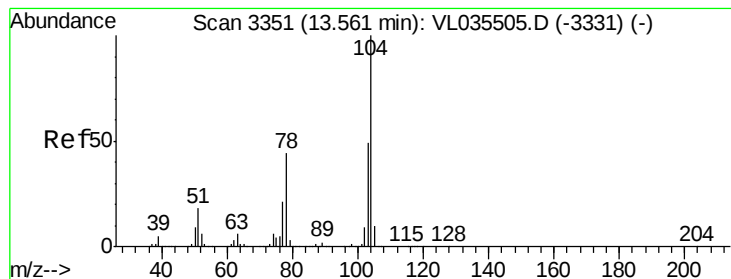
MMDadoda
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#60
o-Xylene
Concen: 0.757 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. -0.03 min
Lab File: VL035559.D
Acq: 8 Sep 2020 16:48

Tgt Ion: 91 Resp: 282481
Ion Ratio Lower Upper
91 100
106 49.6 25.8 77.4





#61

Stvrene

Concen: 0.262 ppbv m

RT: 13.54 min Scan# 3344

Delta R.T. -0.02 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

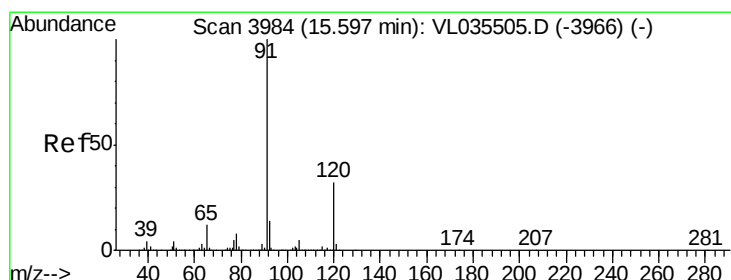
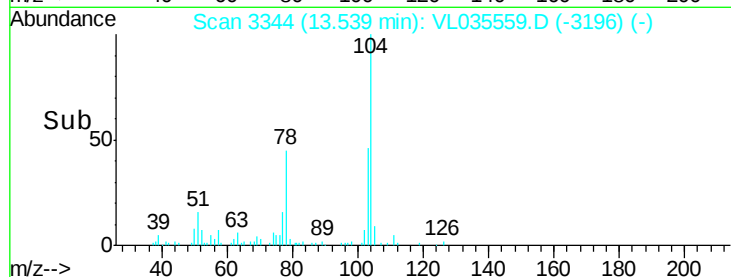
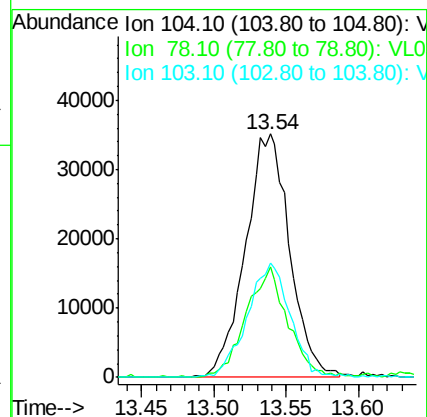
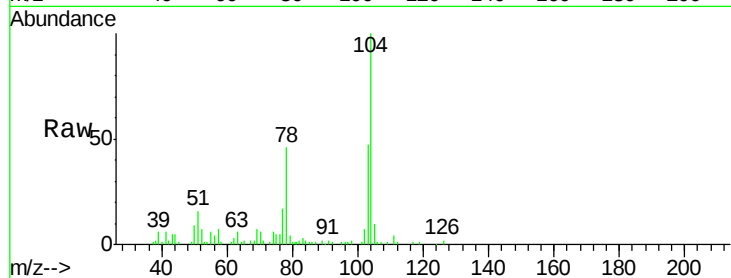
ClientSampleId :

02-WH

Tot Ion:	104	Resp:	74686
Ion Ratio	Lower	Upper	
104	100		
78	43.3	34.8	52.2
103	45.7	38.2	57.4

Manual Integrations
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#64

n-propylbenzene

Concen: 0.109 ppbv m

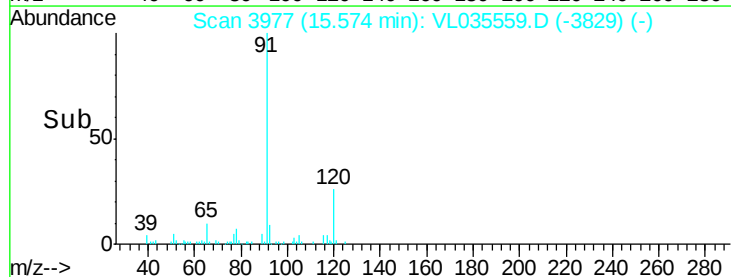
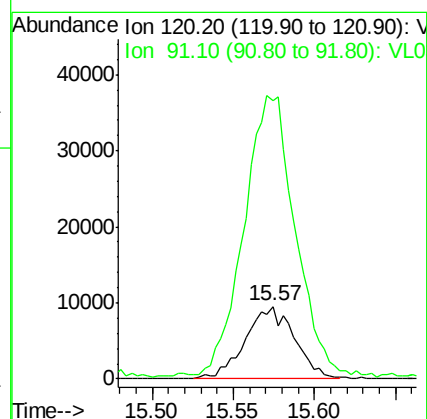
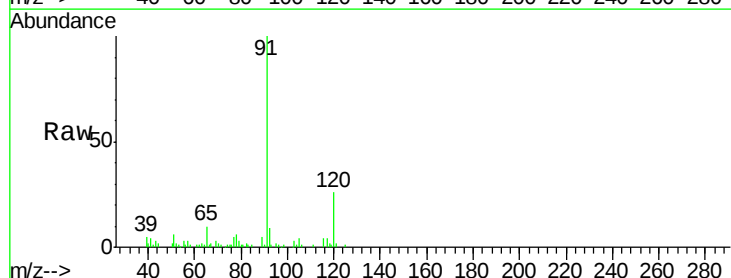
RT: 15.57 min Scan# 3977

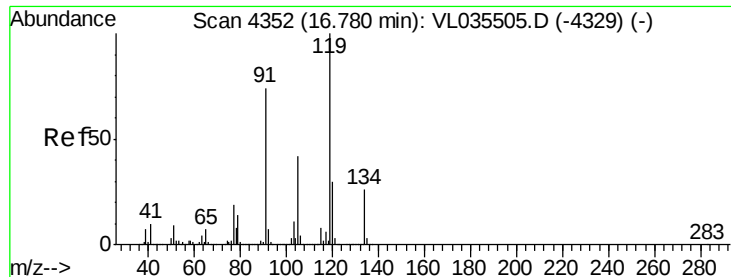
Delta R.T. -0.02 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Tgt Ion:	120	Resp:	19916
Ion Ratio	Lower	Upper	
120	100		
91	410.0	279.4	419.0





#65

tert-Butylbenzene

Concen: 0.099 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

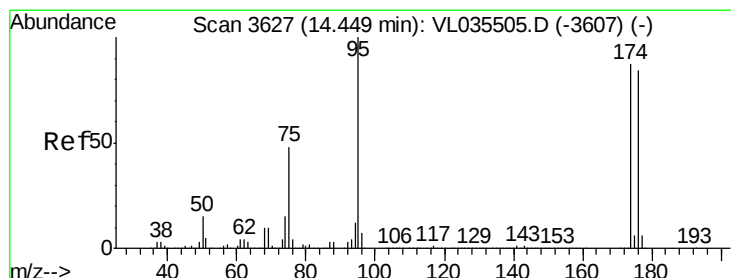
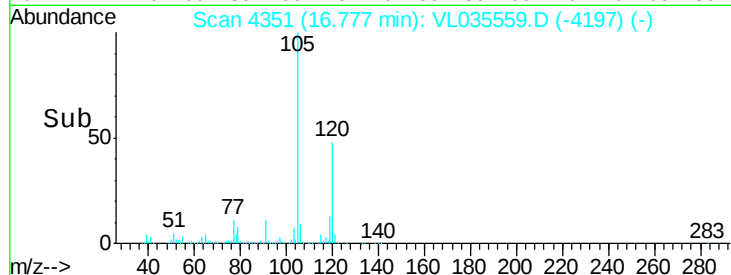
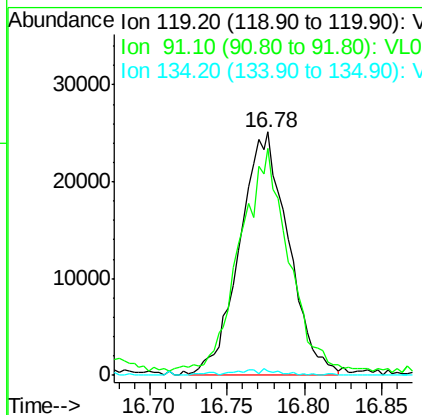
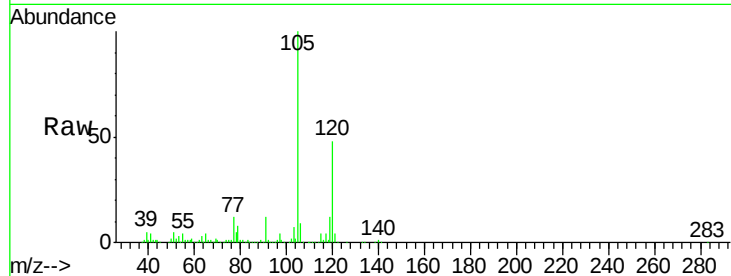
ClientSampleId :

02-WH

Tot Ion	Ratio	Lower	Upper
119	100		
91	94.7	58.6	87.8#
134	1.3	18.9	28.3#

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.582 ppbv

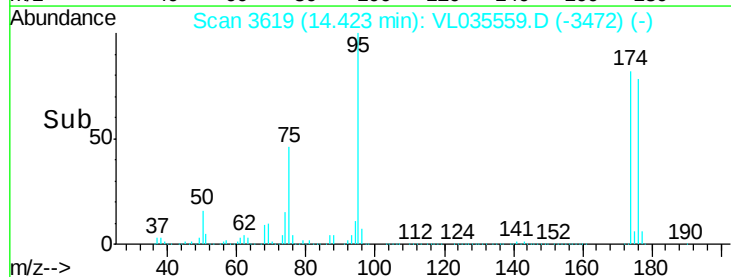
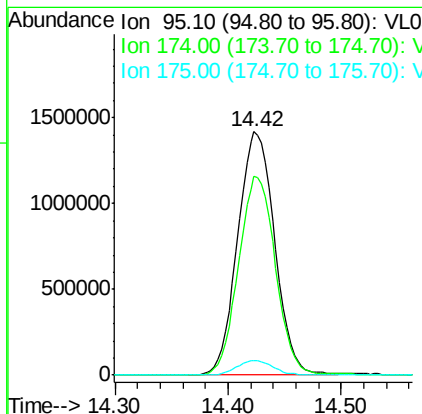
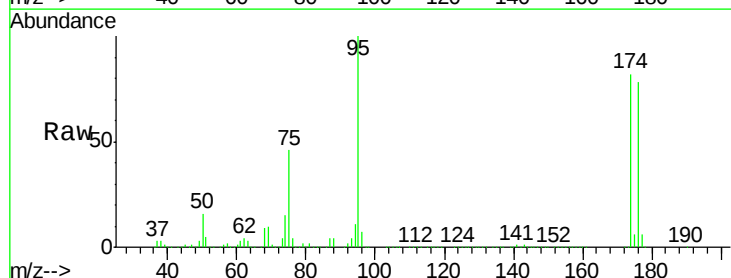
RT: 14.42 min Scan# 3619

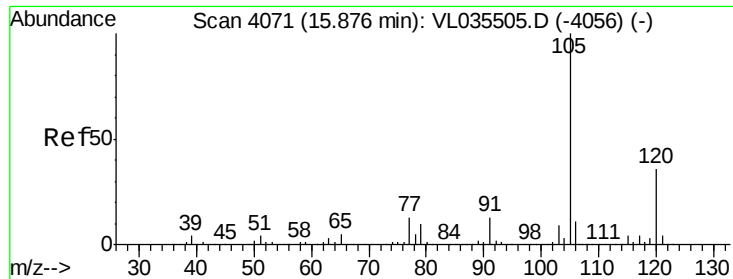
Delta R.T. -0.03 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Tgt Ion	Ratio	Lower	Upper
95	100		
174	82.4	69.6	104.4
175	5.9	5.1	7.7





#72

4-Ethyltoluene

Concen: 0.252 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. -0.03 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

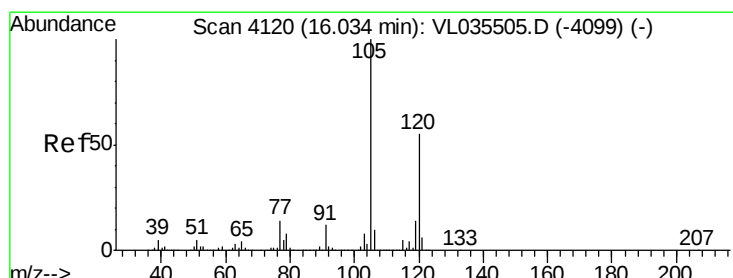
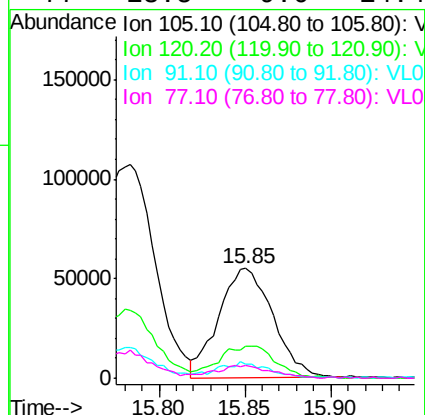
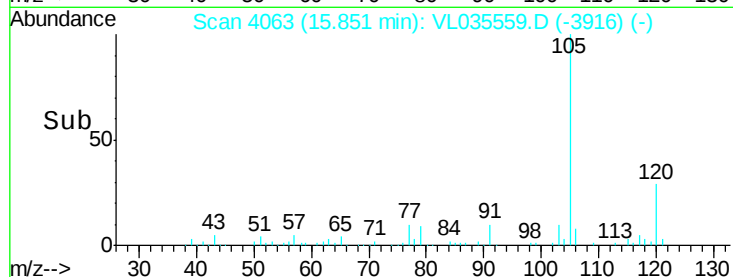
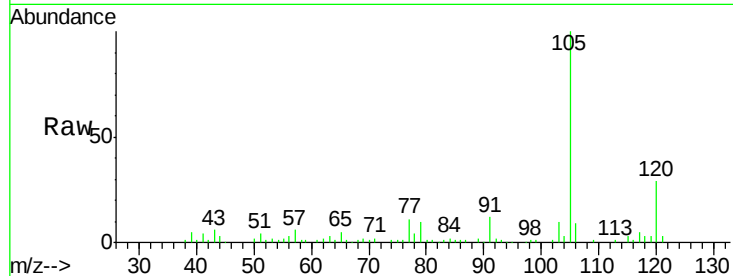
ClientSampleId :

02-WH

Tot Ion	Ratio	Lower	Upper
105	100		
120	31.3	27.4	41.2
91	14.8	9.7	14.5
77	13.5	9.6	14.4

Manual Integrations
APPROVED

MMDadoda
9/10/2020 10:45:24 AM



#73

1,3,5-Trimethylbenzene

Concen: 0.267 ppbv

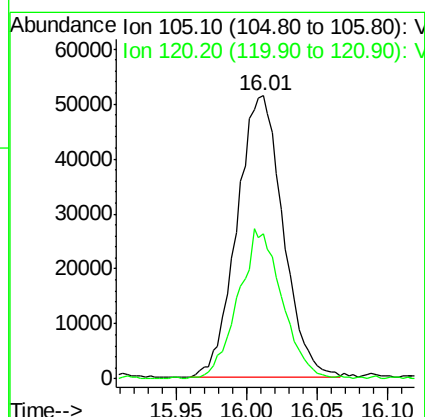
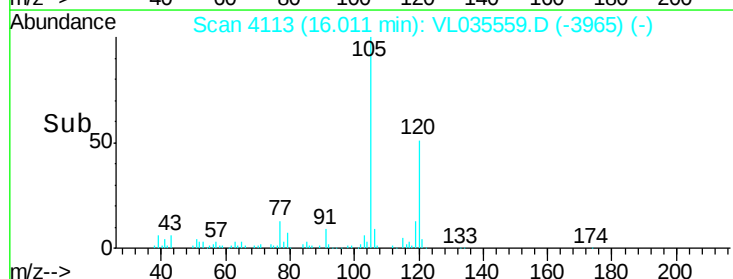
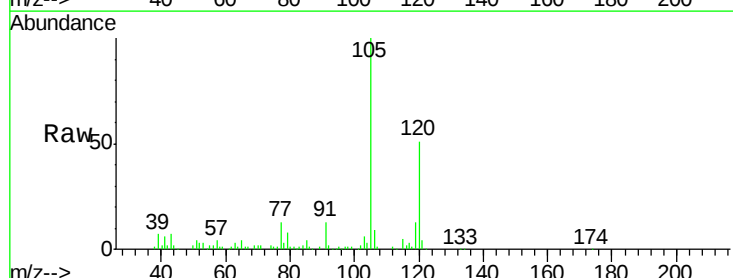
RT: 16.01 min Scan# 4113

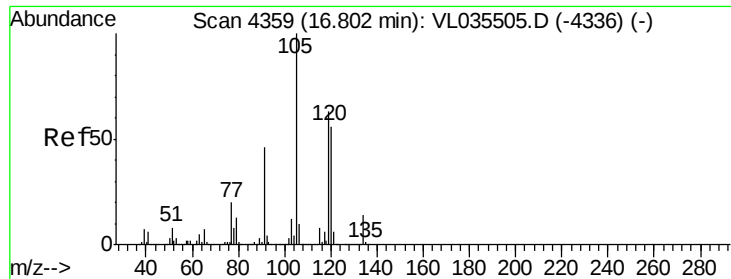
Delta R.T. -0.02 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.1	44.2	66.2





#74

1,2,4-Trimethylbenzene

Concen: 0.935 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.03 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Instrument :

MSVOA_L

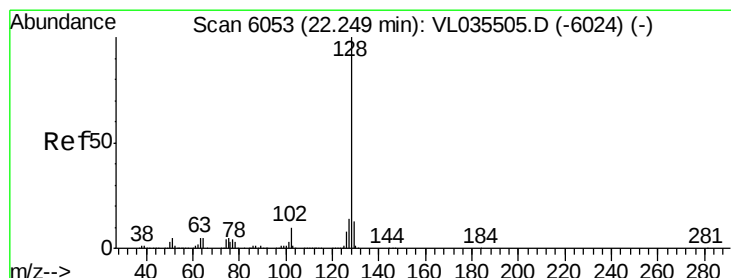
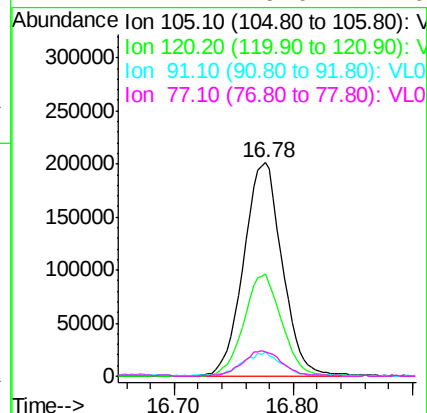
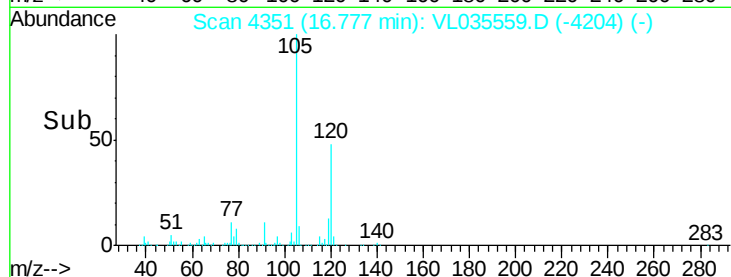
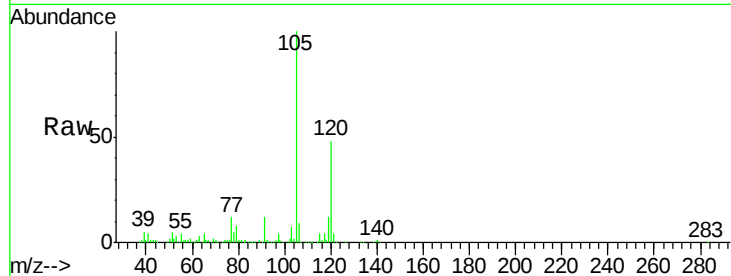
ClientSampleId :

02-WH

Tot Ion	Ratio	Resp	Lower	Upper
105	100	450716		
120	47.9		44.4	66.6
91	11.3		37.1	55.7#
77	11.4		16.0	24.0#

Manual Integrations
APPROVED

MMDadoda
9/10/2020 10:45:24 AM



#79

Naphthalene

Concen: 0.103 ppbv

RT: 22.22 min Scan# 6045

Delta R.T. -0.03 min

Lab File: VL035559.D

Acq: 8 Sep 2020 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	54866		
127	9.7		11.4	17.2#
129	14.1		10.5	15.7

