

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035571.D
 Acq On : 9 Sep 2020 1:06
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Manual Integrations
 APPROVED

MMDadoda
 9/10/2020 10:45:37 AM

Quant Time: Sep 09 05:32:28 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	5.65	49	1104035	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	4545868	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	4486351	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3382247	10.62	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	33582	0.176	ppbv	96
3) Chlorodifluoromethane	2.97	51	35139m	0.288	ppbv	
4) Chloromethane	3.12	50	20196	0.309	ppbv	96
9) Propene	3.00	41	415034	8.817	ppbv #	69
10) Heptane	8.11	43	49601	0.392	ppbv	97
11) Trichlorofluoromethane	3.94	101	37757	0.135	ppbv	99
13) Ethanol	3.61	45	9345514	800.717	ppbv	95
15) Acetone	3.83	43	1309471	10.754	ppbv	100
17) tert-Butyl alcohol	4.31	59	79940	0.539	ppbv	98
19) Isopropyl Alcohol	3.98	45	425385	5.856	ppbv #	97
20) Methylene Chloride	4.33	84	277283	3.057	ppbv	96
26) Hexane	5.67	57	106703	0.875	ppbv #	84
27) Carbon Disulfide	4.54	76	22794	0.130	ppbv #	92
29) Chloroform	5.74	83	39328	0.158	ppbv	97
30) Cyclohexane	7.12	84	14444m	0.111	ppbv	
34) 2-Butanone	5.23	43	108374	0.803	ppbv	99
35) Carbon Tetrachloride	7.01	117	8956m	0.039	ppbv	
36) Benzene	6.88	78	75829	0.258	ppbv #	92
44) 2,2,4-Trimethylpentane	7.86	57	139697	0.361	ppbv #	77
50) 4-Methyl-2-Pentanone	8.74	43	60565	0.310	ppbv	87
52) Tetrachloroethene	11.22	164	14994	0.087	ppbv #	89
53) Toluene	9.80	91	3840142	10.378	ppbv	100
58) Ethyl Benzene	12.71	91	188827	0.408	ppbv	94
59) m/p-Xylene	12.97	91	650683	1.683	ppbv	96
60) o-Xylene	13.70	91	214278	0.550	ppbv	95
61) Styrene	13.53	104	50036	0.168	ppbv	98
72) 4-Ethyltoluene	15.84	105	89637	0.181	ppbv	96
73) 1,3,5-Trimethylbenzene	16.00	105	80663	0.176	ppbv	91
74) 1,2,4-Trimethylbenzene	16.77	105	299532	0.596	ppbv #	70

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

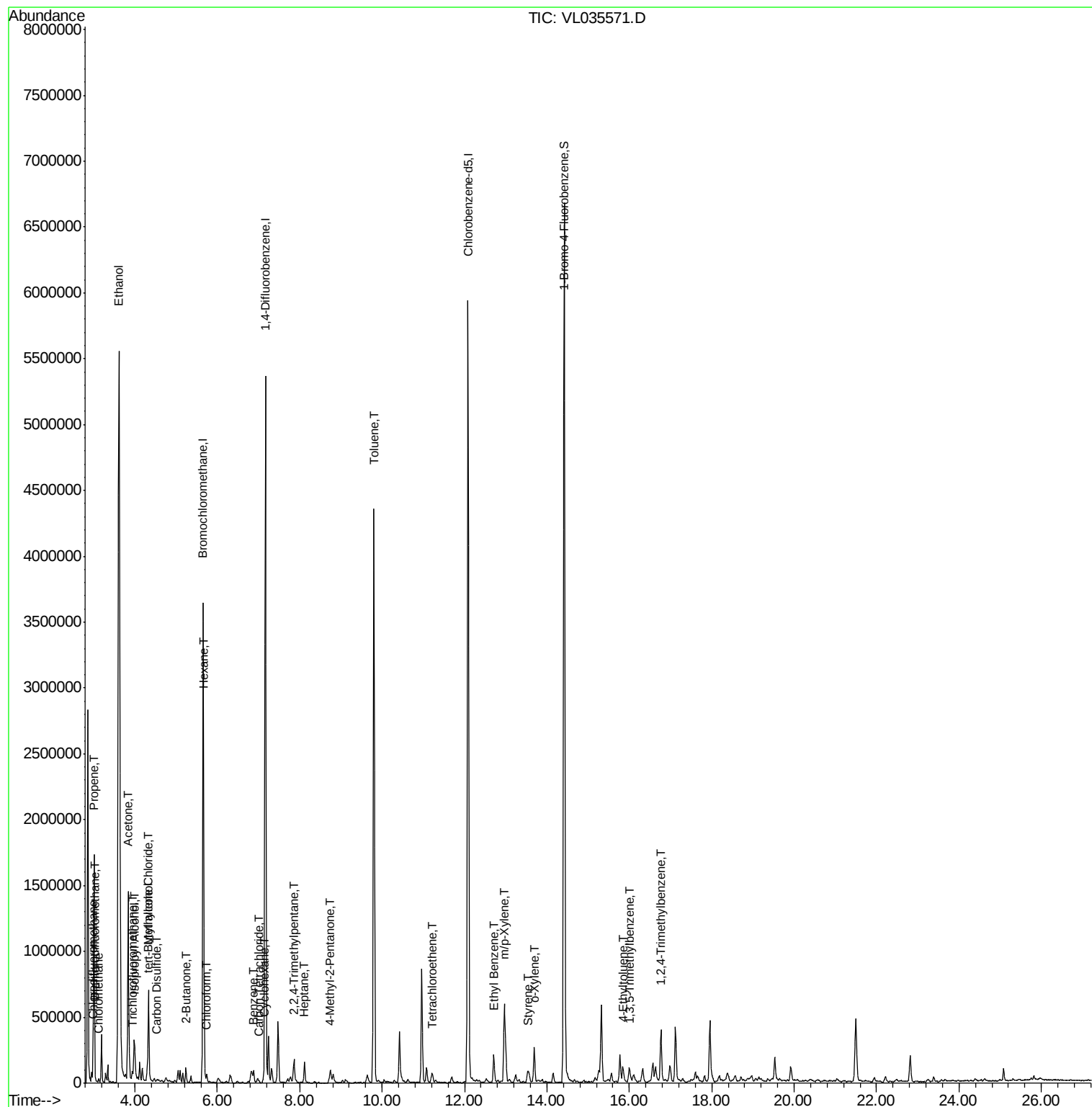
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090820\
Data File : VL035571.D
Acq On : 9 Sep 2020 1:06
Operator : SY/AP
Sample : VIBLK
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

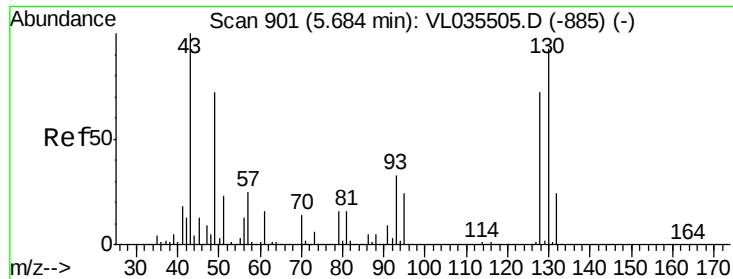
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Manual Integrations
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9/10/2020 10:45:37 AM

Quant Time: Sep 09 05:32:28 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: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 49 Resp: 1104035

Ion Ratio Lower Upper

49 100

128 92.1 50.0 150.1

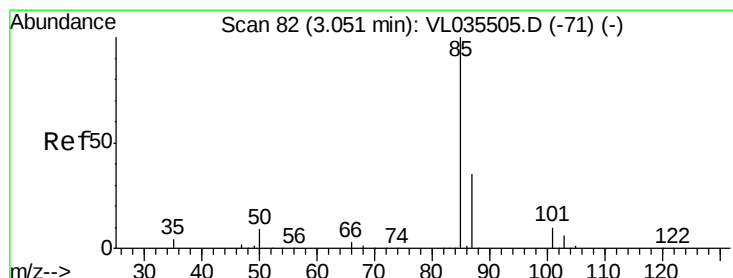
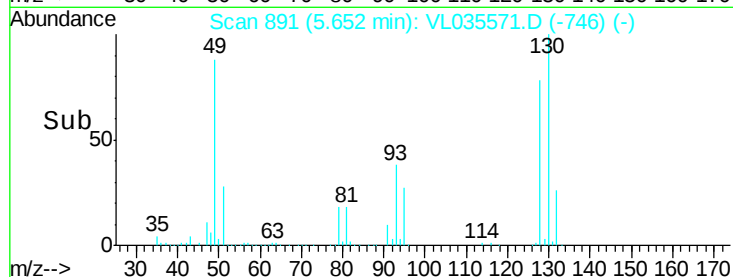
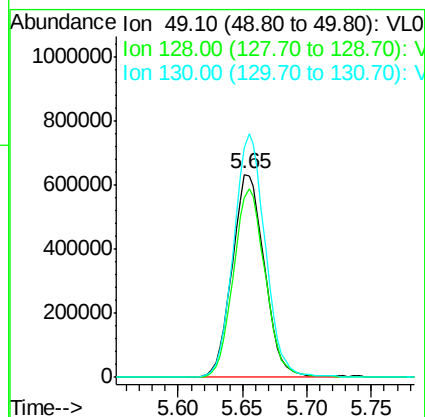
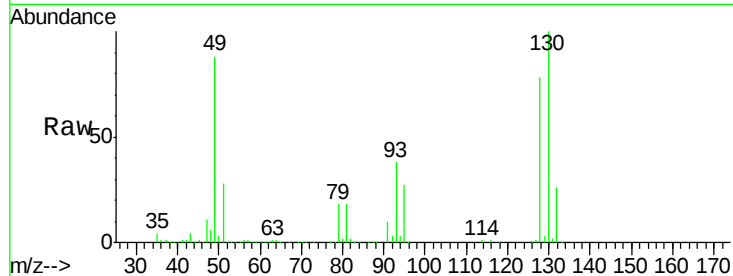
130 117.8 64.4 193.2

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.176 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL035571.D

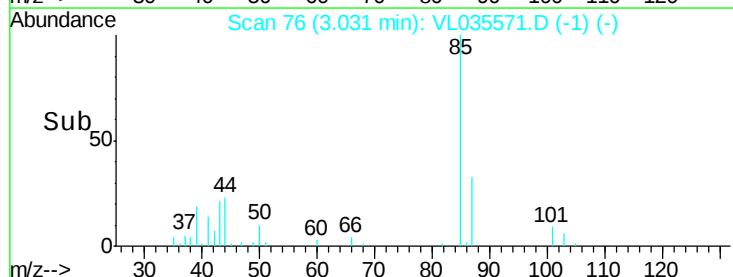
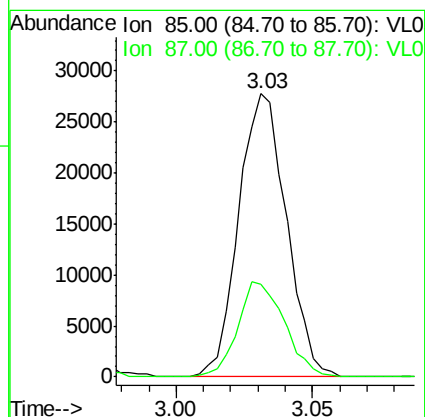
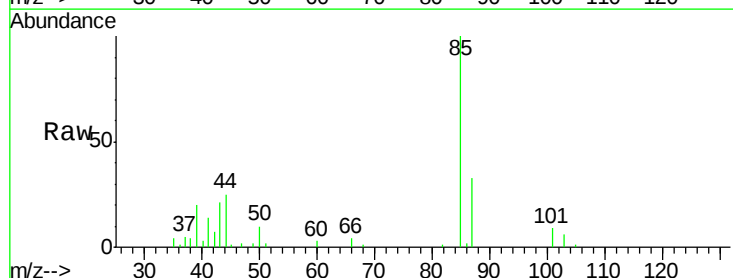
Acq: 9 Sep 2020 1:06

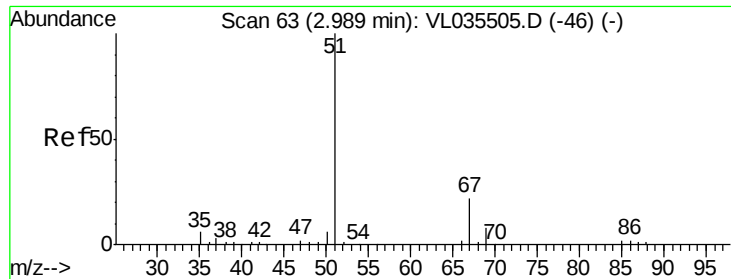
Tgt Ion: 85 Resp: 33582

Ion Ratio Lower Upper

85 100

87 32.6 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.288 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 51 Resp: 35139

Ion Ratio Lower Upper

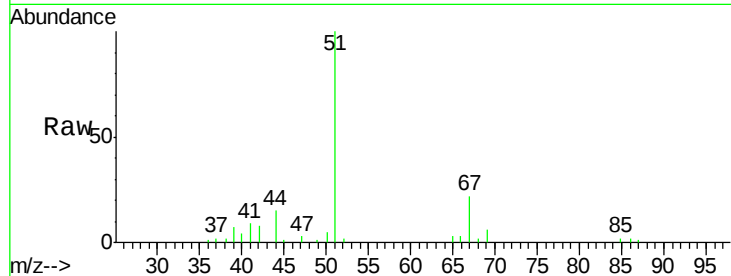
51 100

67 24.0 17.8 26.8

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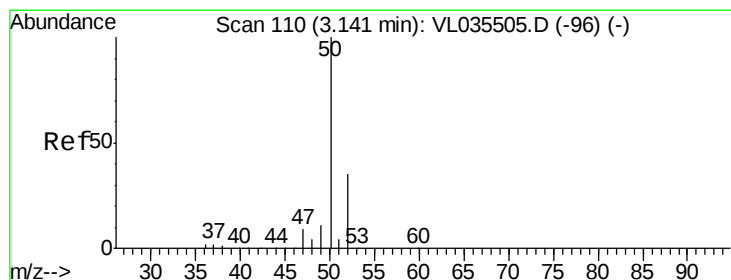
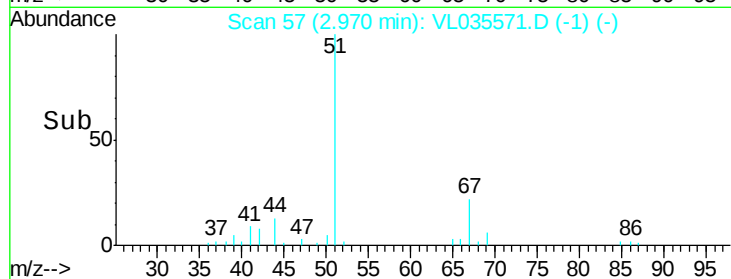
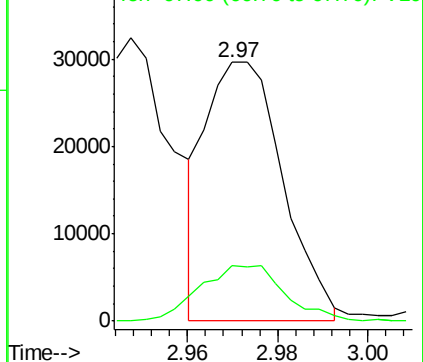
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.309 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL035571.D

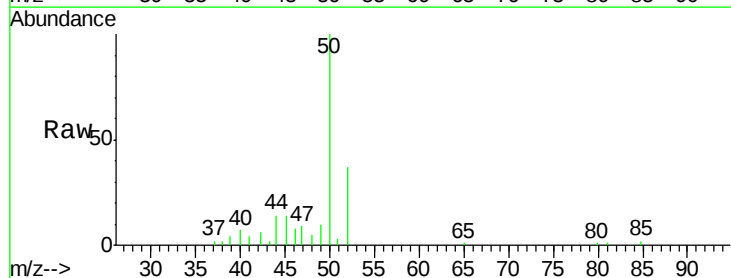
Acq: 9 Sep 2020 1:06

Tgt Ion: 50 Resp: 20196

Ion Ratio Lower Upper

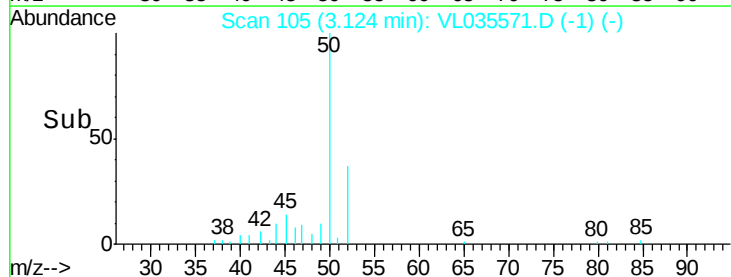
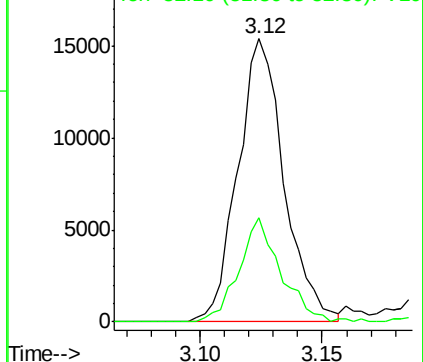
50 100

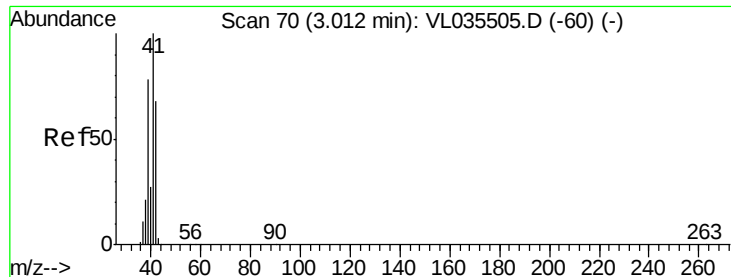
52 36.6 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 8.817 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 41 Resp: 415034

Ion Ratio Lower Upper

41 100

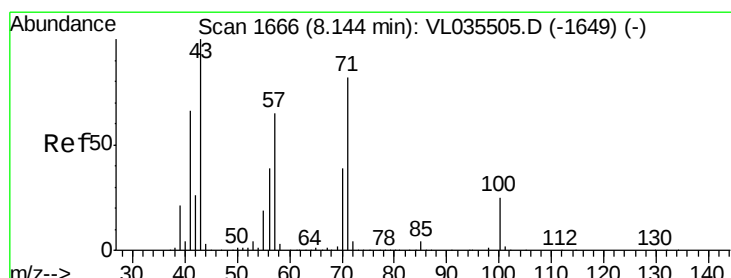
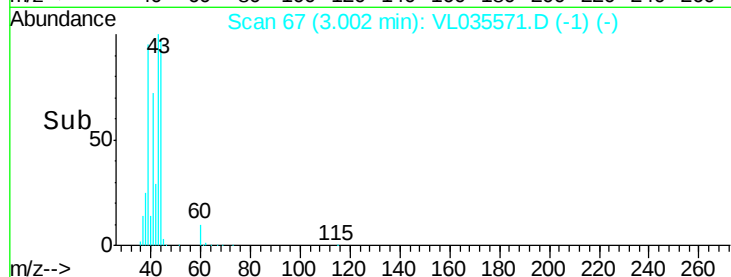
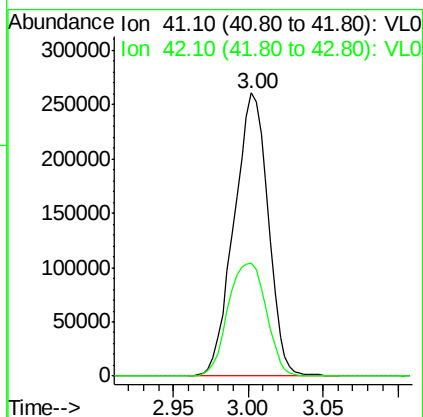
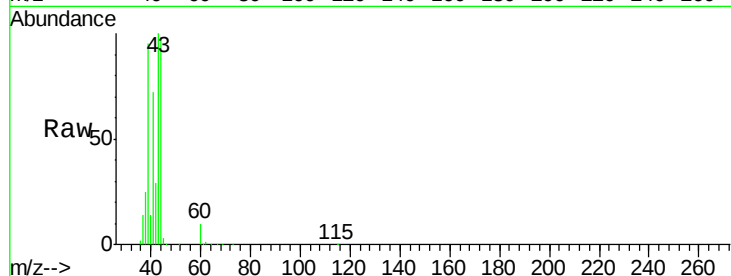
42 45.0 56.3 84.5#

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#10

Heptane

Concen: 0.392 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.03 min

Lab File: VL035571.D

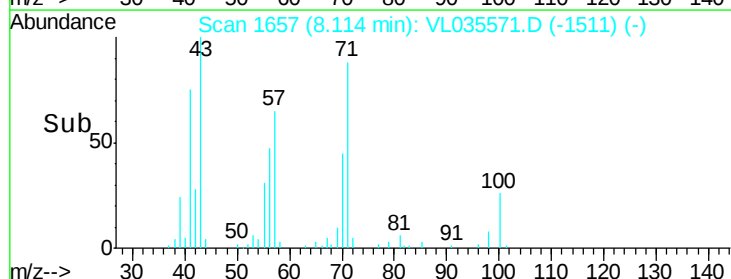
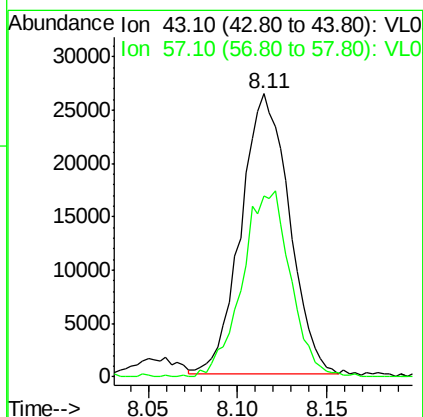
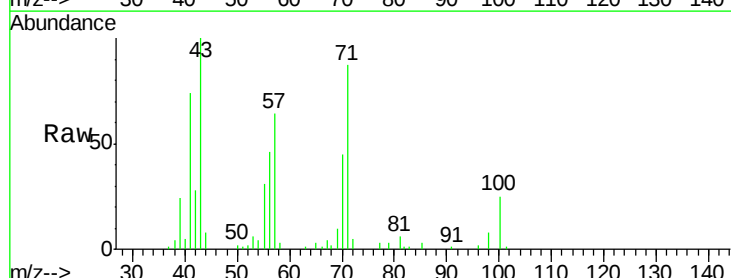
Acq: 9 Sep 2020 1:06

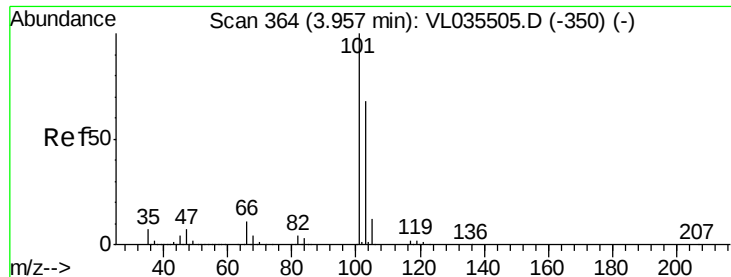
Tgt Ion: 43 Resp: 49601

Ion Ratio Lower Upper

43 100

57 66.7 51.4 77.0





#11

Trichlorofluoromethane

Concen: 0.135 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.02 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion:101 Resp: 37757

Ion Ratio Lower Upper

101 100

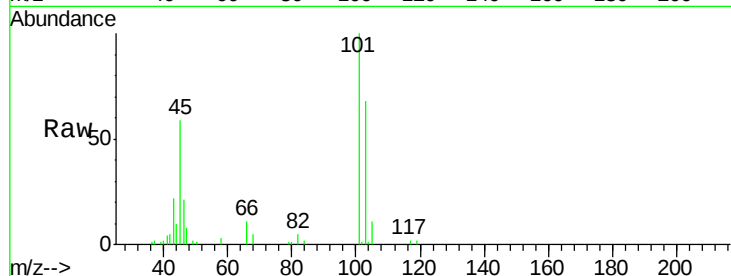
103 67.7 54.5 81.7

Manual Integrations

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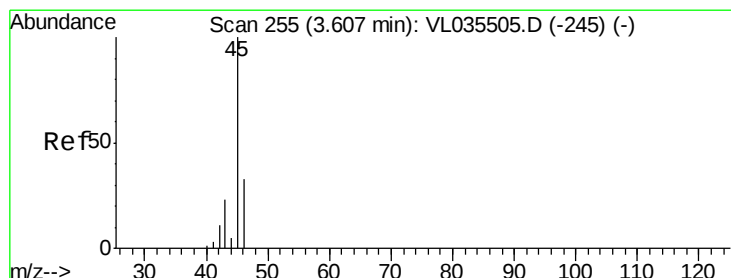
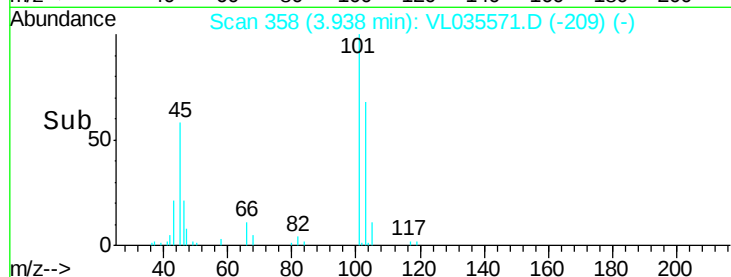
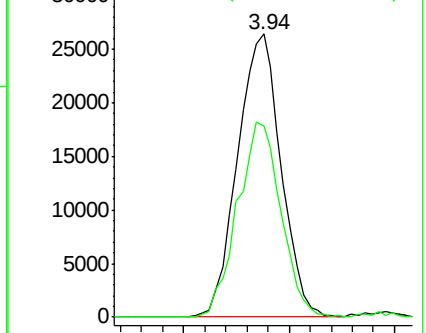
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 800.717 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL035571.D

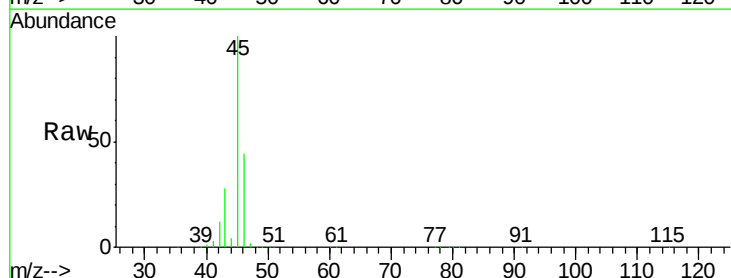
Acq: 9 Sep 2020 1:06

Tgt Ion: 45 Resp: 9345514

Ion Ratio Lower Upper

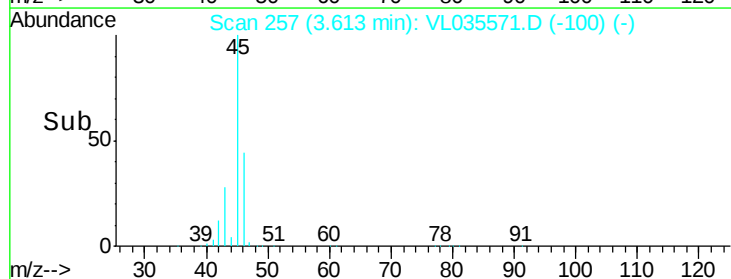
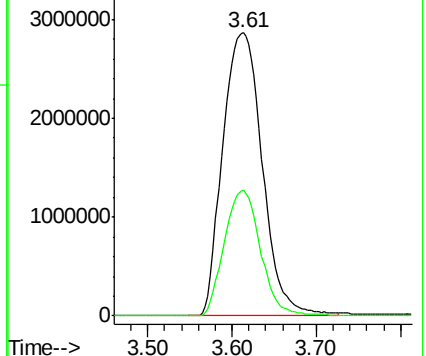
45 100

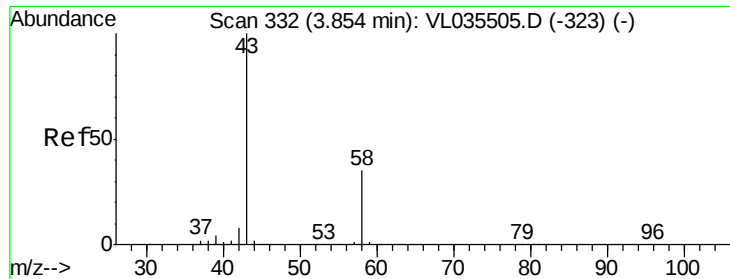
46 41.1 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 10.754 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 43 Resp: 1309471

Ion Ratio Lower Upper

43 100

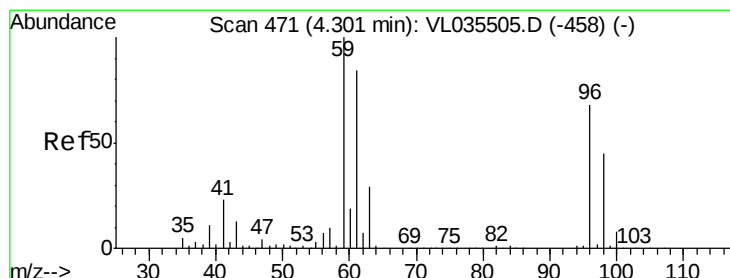
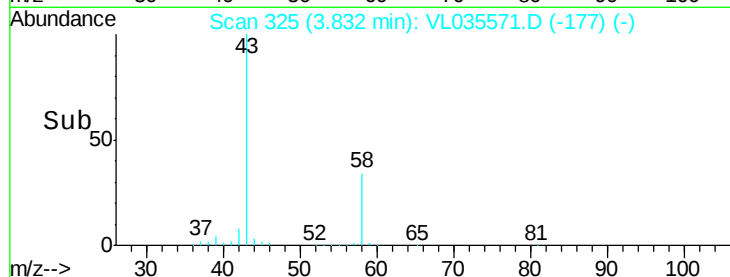
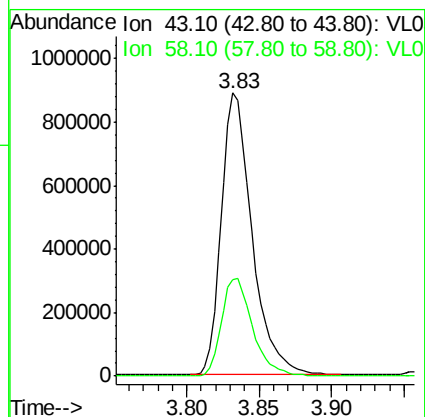
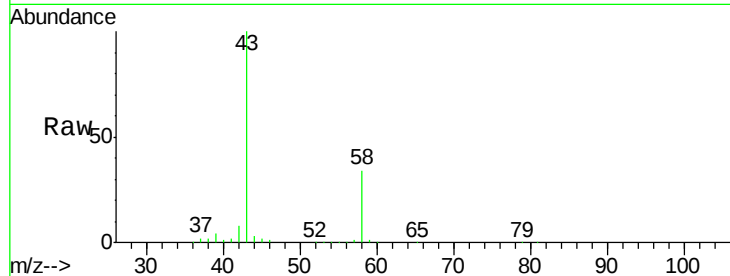
58 35.3 28.4 42.6

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 0.539 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.01 min

Lab File: VL035571.D

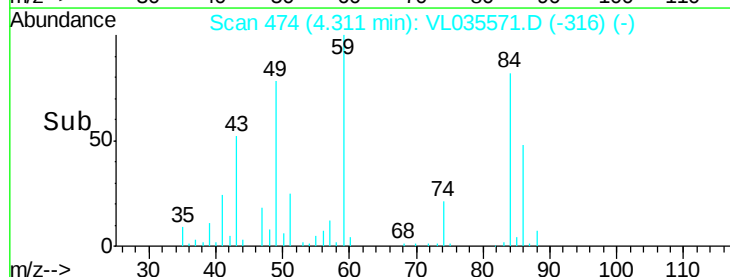
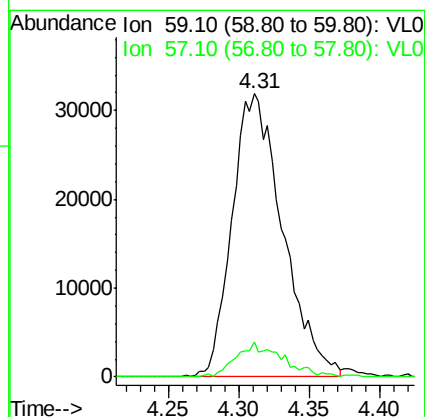
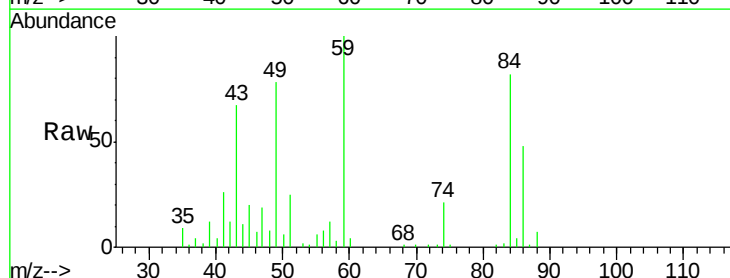
Acq: 9 Sep 2020 1:06

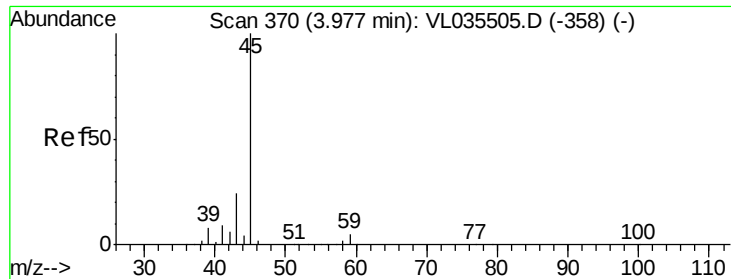
Tgt Ion: 59 Resp: 79940

Ion Ratio Lower Upper

59 100

57 11.3 8.4 12.6





#19

Isopropyl Alcohol

Concen: 5.856 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 45 Resp: 425385

Ion Ratio Lower Upper

45 100

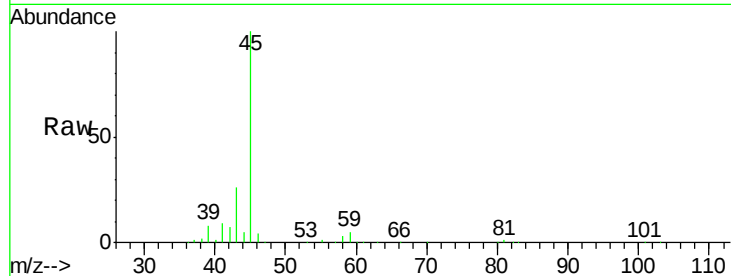
58 3.4 2.0 3.0#

Manual Integrations

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9/10/2020 10:45:37 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

200000

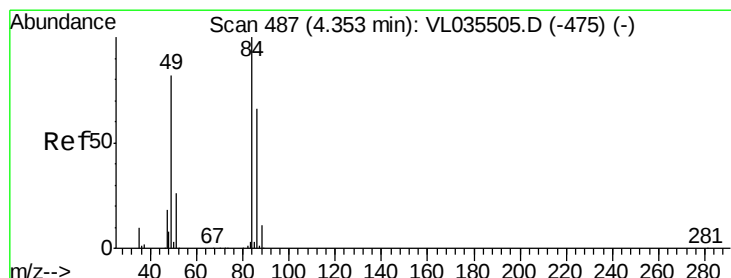
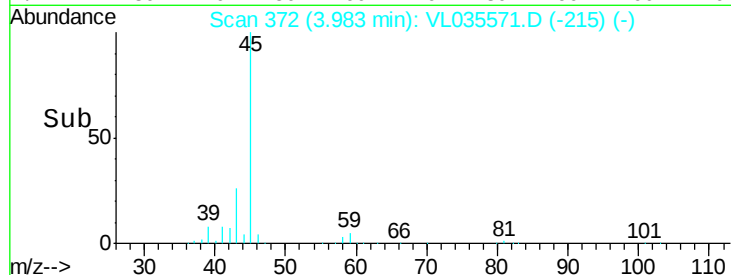
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 3.057 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.02 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Tgt Ion: 84 Resp: 277283

Ion Ratio Lower Upper

84 100

49 88.7 65.4 98.0

51 28.8 21.5 32.3

86 66.1 52.9 79.3

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

250000

200000

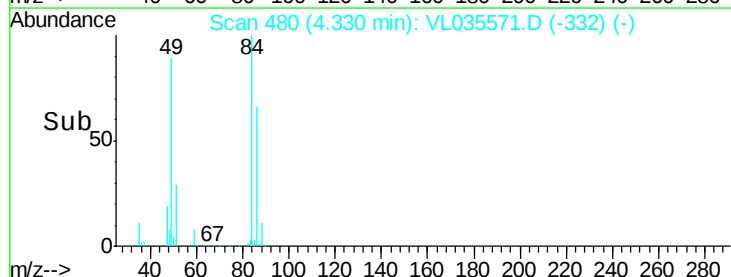
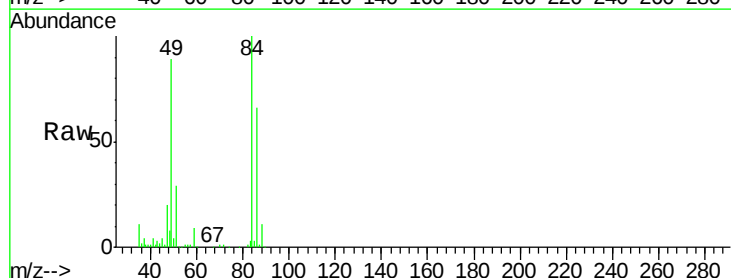
150000

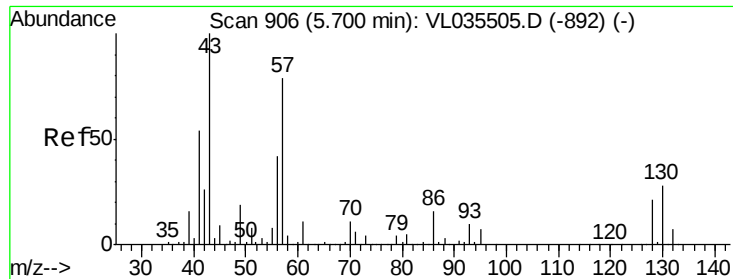
100000

50000

0

Time-->





#26

Hexane

Concen: 0.875 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.03 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 57 Resp: 106703

Ion Ratio Lower Upper

57 100

41 70.9 55.9 83.9

43 140.1 141.8 212.8#

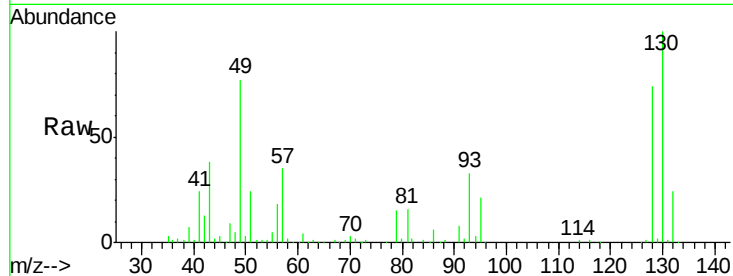
56 53.8 41.8 62.8

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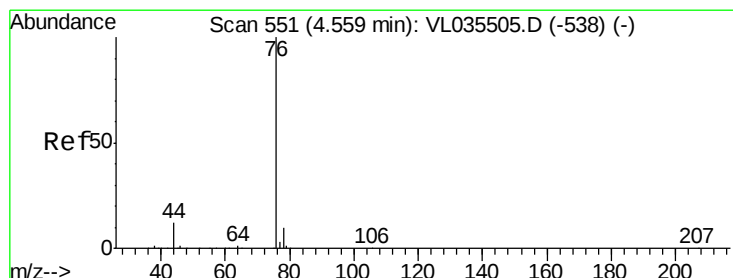
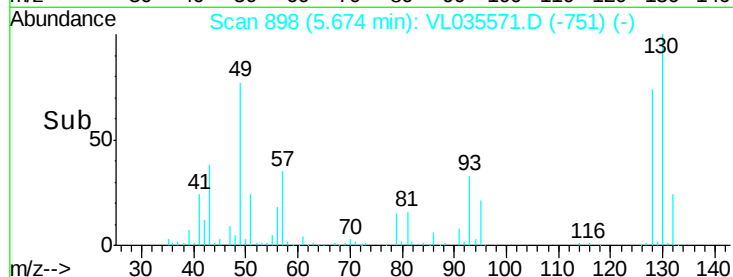
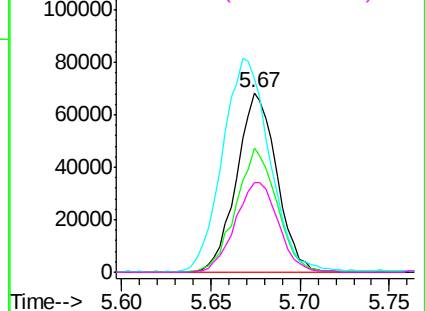
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.130 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.02 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

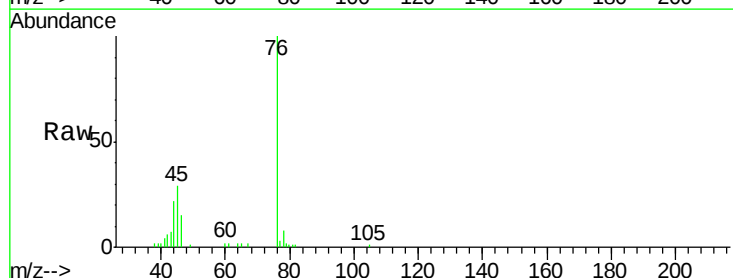
Tgt Ion: 76 Resp: 22794

Ion Ratio Lower Upper

76 100

44 15.8 9.3 13.9#

78 11.6 7.8 11.6

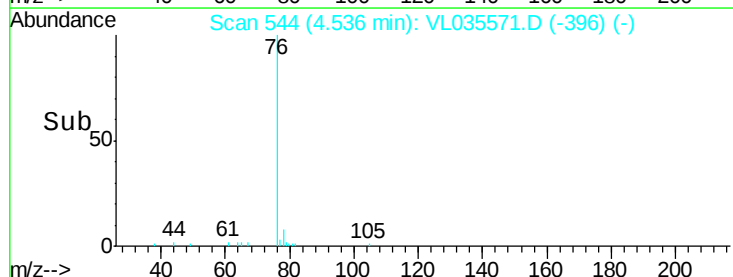
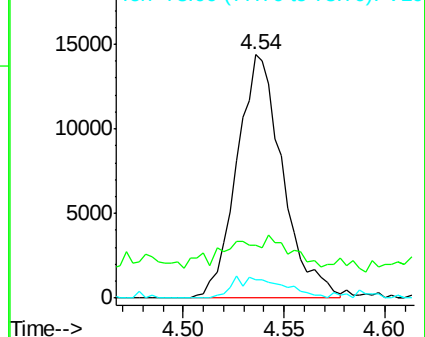


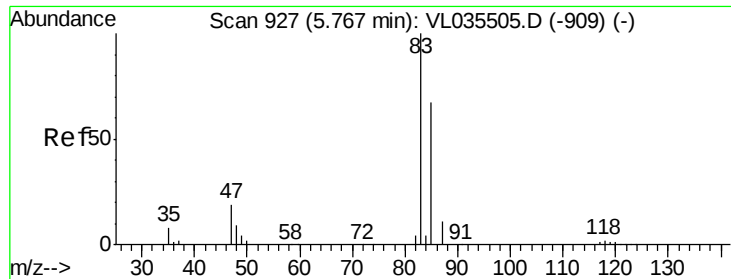
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





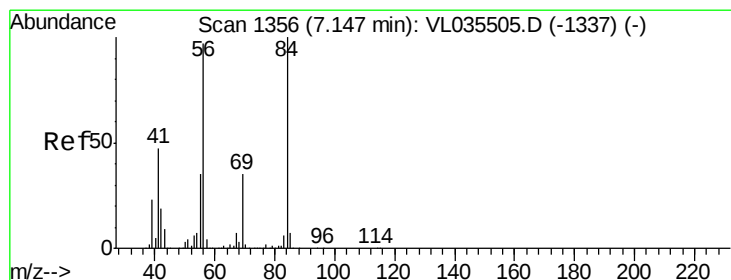
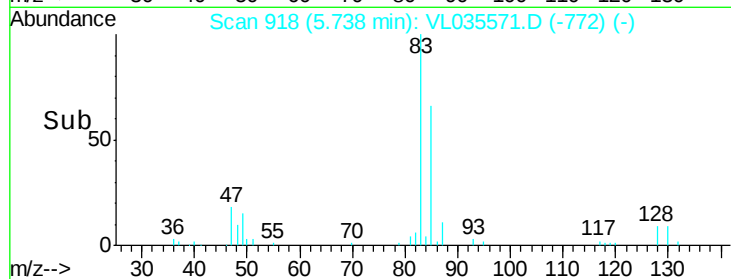
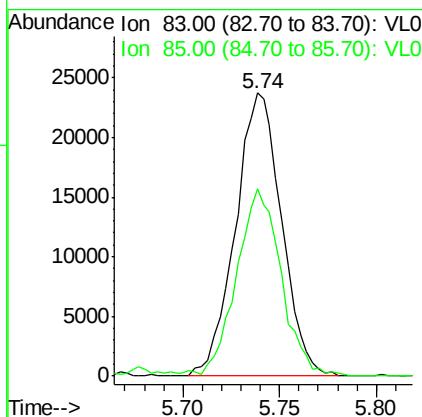
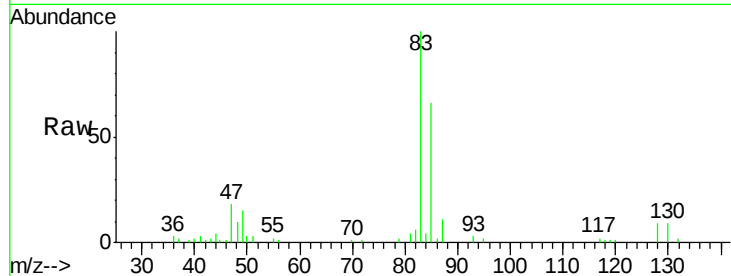
#29
Chloroform
Concen: 0.158 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.03 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tot Ion	83	Resp	39328
Ion Ratio	100	Lower	Upper
83	100		
85	65.4	53.9	80.9

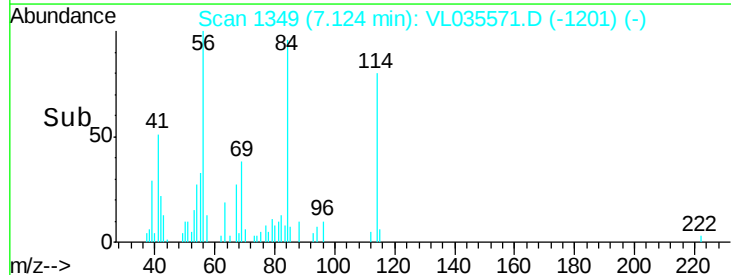
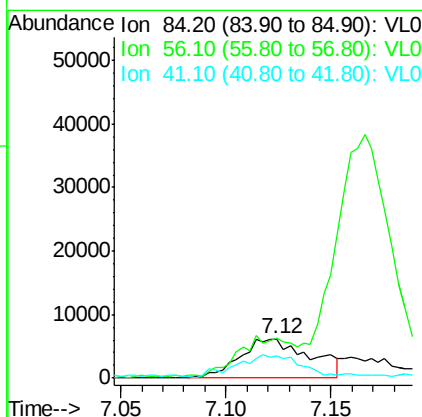
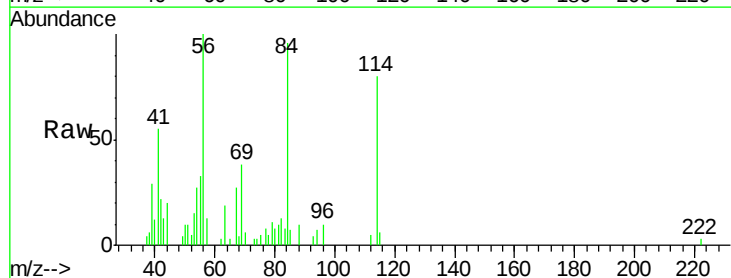
Manual Integrations
APPROVED

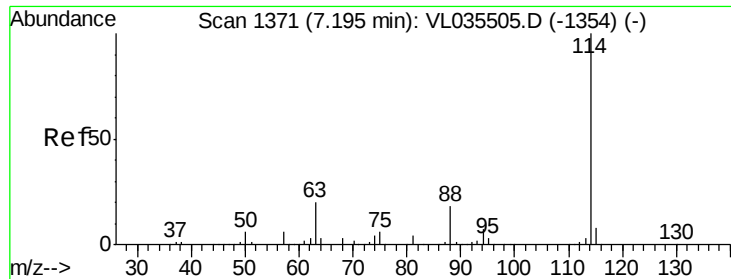
MMDadoda
9/10/2020 10:45:37 AM



#30
Cyclohexane
Concen: 0.111 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Tgt Ion	84	Resp	14444
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	80.1	120.1#
41	54.0	38.1	57.1





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.03 min
 Lab File: VL035571.D
 Acq: 9 Sep 2020 1:06

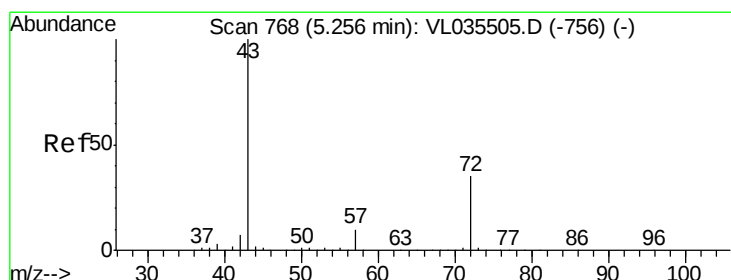
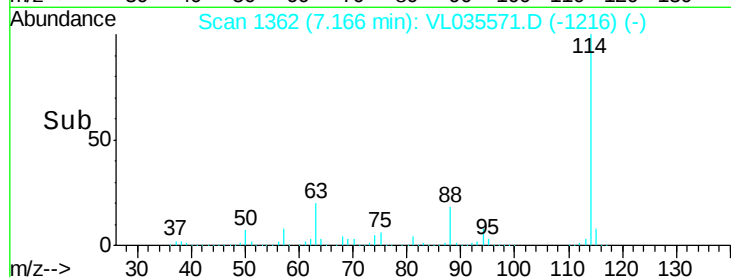
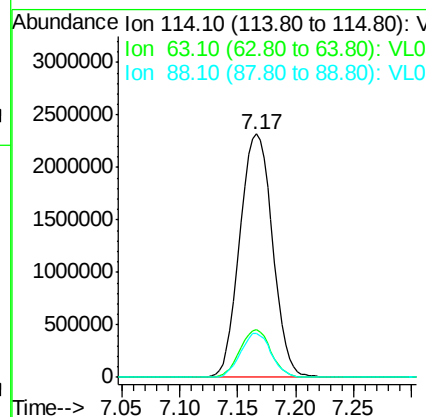
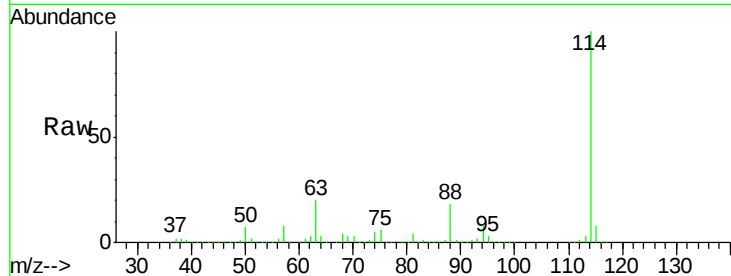
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Tot Ion: 114 Resp: 4545868

Ion	Ratio	Lower	Upper
114	100		
63	18.6	14.7	22.1
88	17.0	13.4	20.2

Manual Integrations
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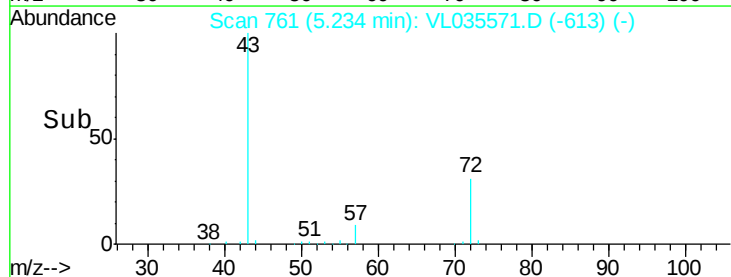
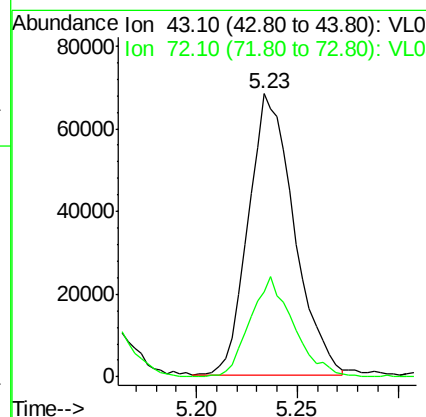
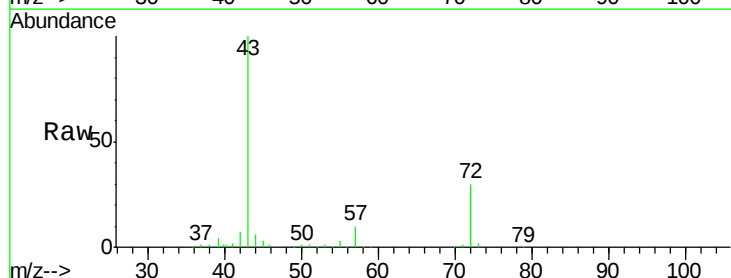
MMDadoda
 9/10/2020 10:45:37 AM

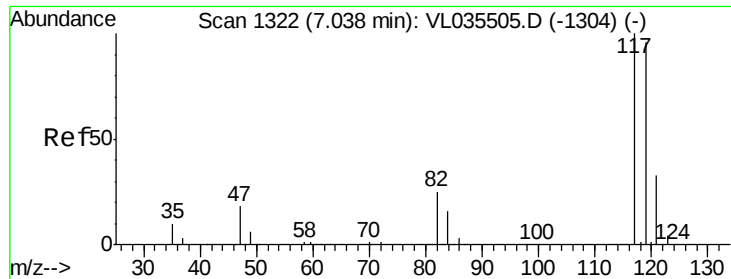


#34
 2-Butanone
 Concen: 0.803 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.02 min
 Lab File: VL035571.D
 Acq: 9 Sep 2020 1:06

Tgt Ion: 43 Resp: 108374

Ion	Ratio	Lower	Upper
43	100		
72	34.1	27.7	41.5





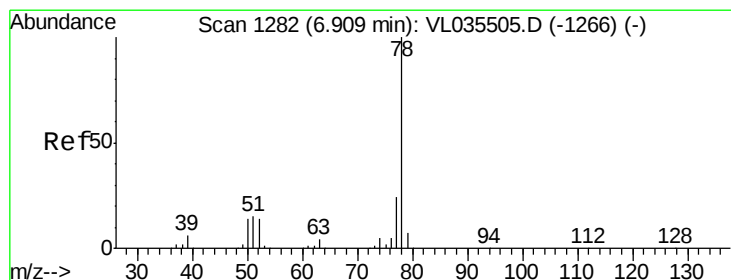
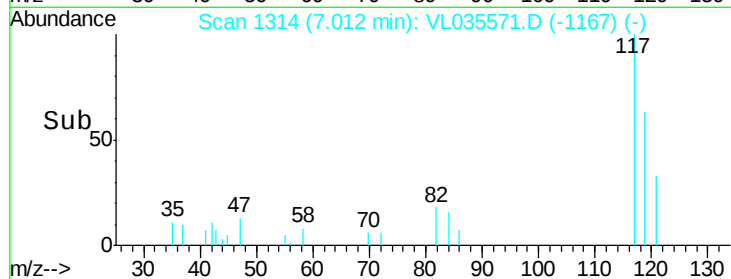
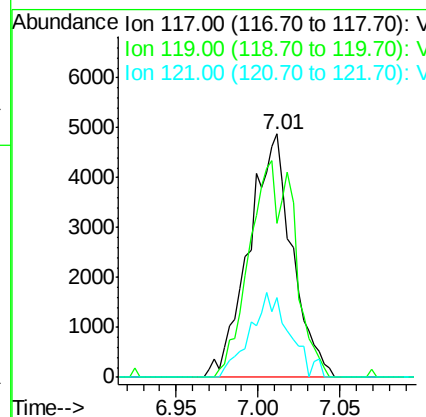
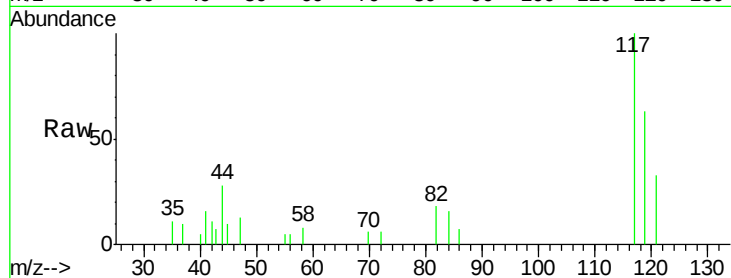
#35
Carbon Tetrachloride
Concen: 0.039 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.03 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion	Ratio	Lower	Upper
117	100		
119	63.5	77.2	115.8#
121	32.7	26.1	39.1

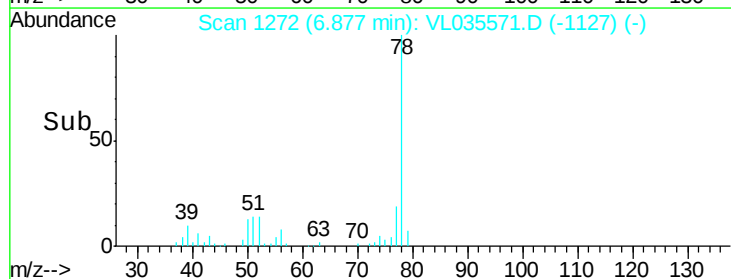
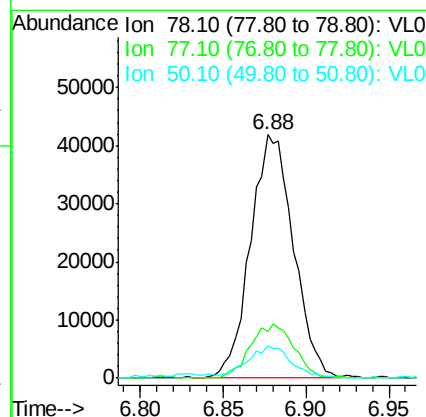
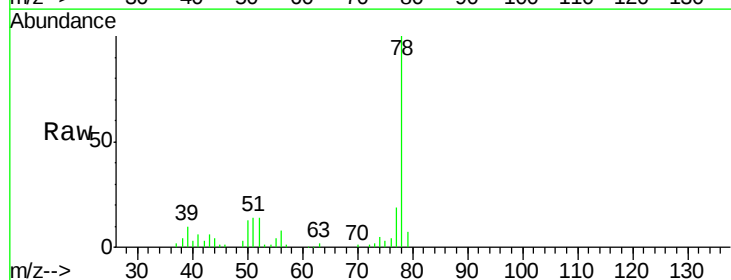
Manual Integrations
APPROVED

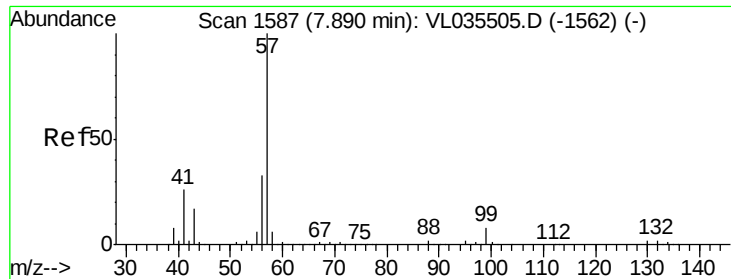
MMDadoda
9/10/2020 10:45:37 AM



#36
Benzene
Concen: 0.258 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.03 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.9	19.3	28.9#
50	12.6	11.0	16.6





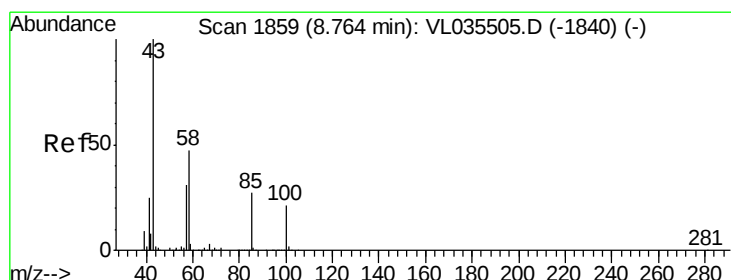
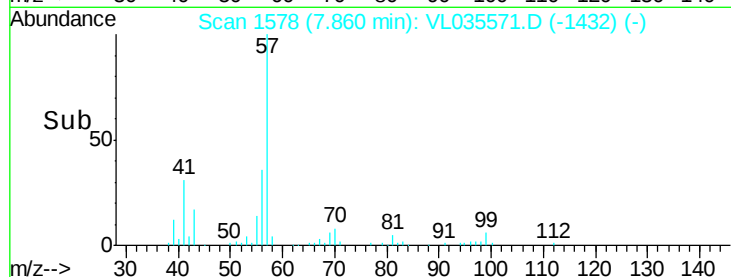
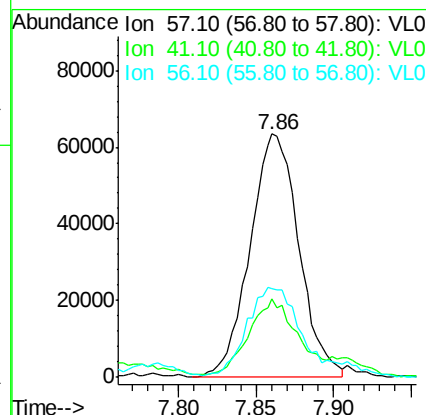
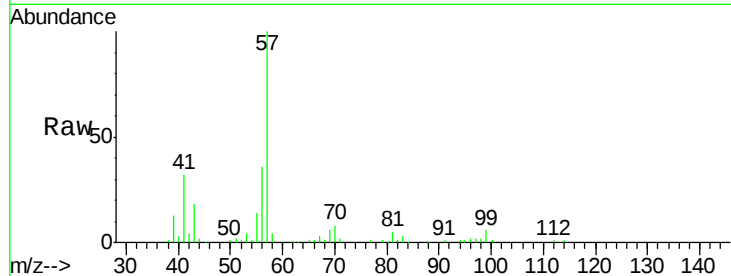
#44
 2,2,4-Trimethylpentane
 Concen: 0.361 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.03 min
 Lab File: VL035571.D
 Acq: 9 Sep 2020 1:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Tot Ion	57	Resp	139697
Ion Ratio	100	Lower	Upper
57	100		
41	37.6	20.5	30.7#
56	43.9	25.3	37.9#

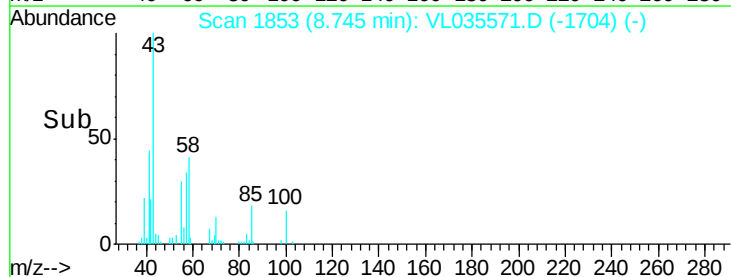
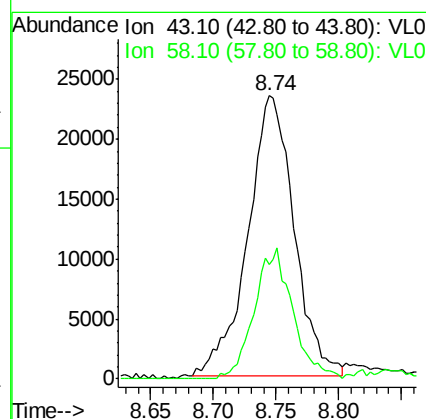
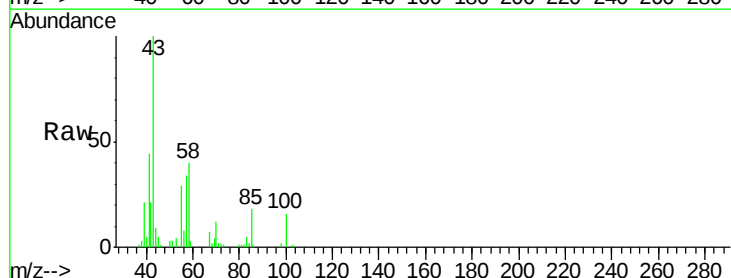
Manual Integrations
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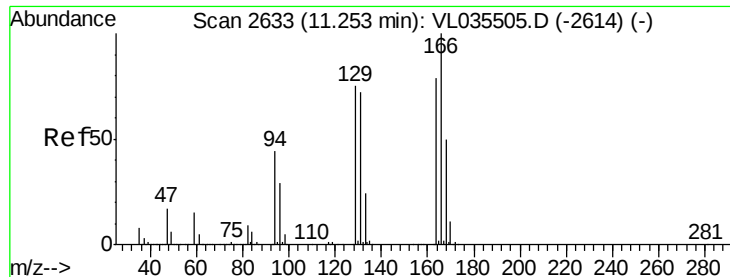
MMDadoda
 9/10/2020 10:45:37 AM



#50
 4-Methyl-2-Pentanone
 Concen: 0.310 ppbv
 RT: 8.74 min Scan# 1853
 Delta R.T. -0.02 min
 Lab File: VL035571.D
 Acq: 9 Sep 2020 1:06

Tgt Ion	43	Resp	60565
Ion Ratio	100	Lower	Upper
43	100		
58	38.3	37.4	56.0





#52

Tetrachloroethene

Concen: 0.087 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. -0.03 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

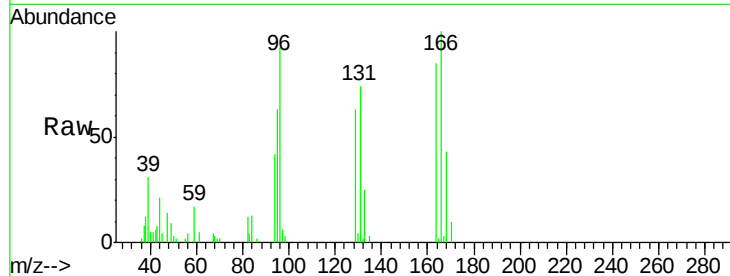
ClientSampleId :

VIBLK

Tot Ion:	164	Resp:	14994
Ion	Ratio	Lower	Upper
164	100		
166	117.6	100.9	151.3
129	72.0	75.3	112.9#
131	86.5	73.0	109.4

Manual Integrations
APPROVED

MMDadoda
9/10/2020 10:45:37 AM

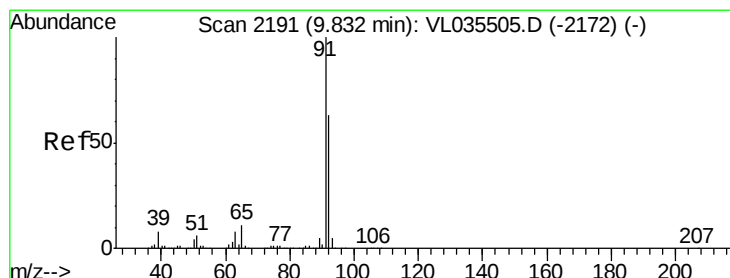
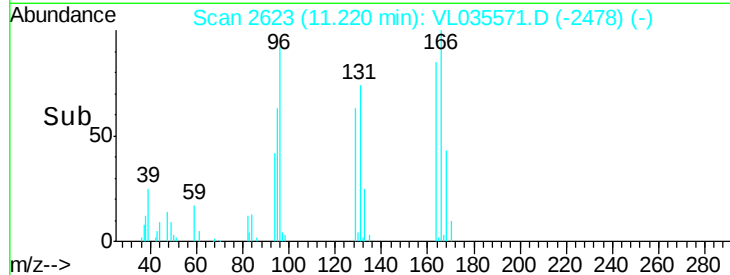
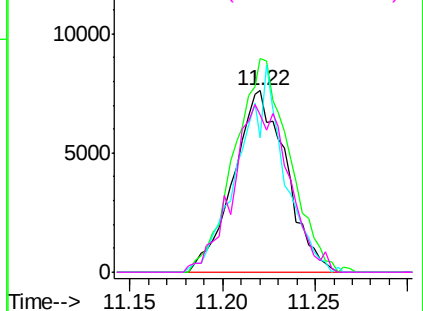


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.378 ppbv

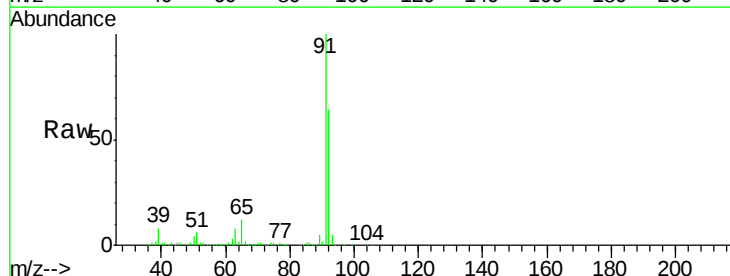
RT: 9.80 min Scan# 2181

Delta R.T. -0.03 min

Lab File: VL035571.D

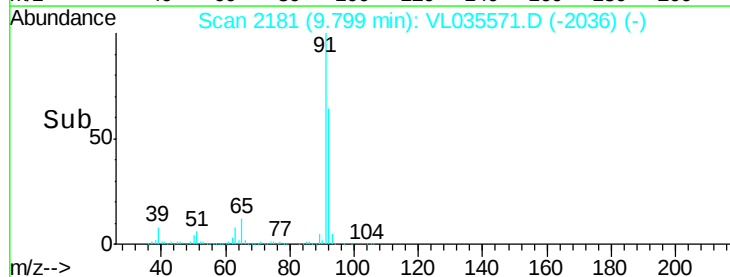
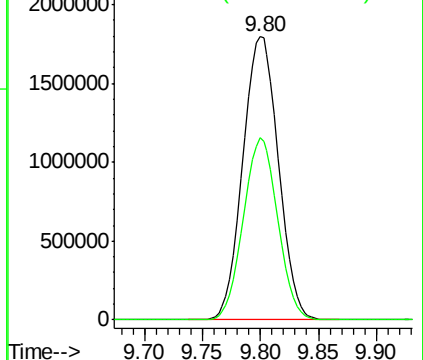
Acq: 9 Sep 2020 1:06

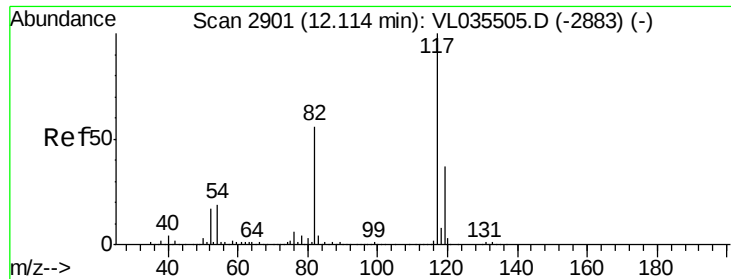
Tgt Ion:	91	Resp:	3840142
Ion	Ratio	Lower	Upper
91	100		
92	62.3	49.8	74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





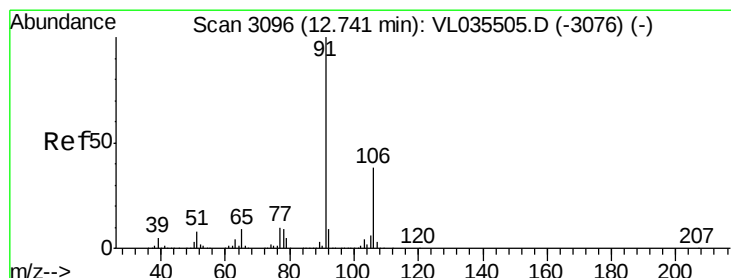
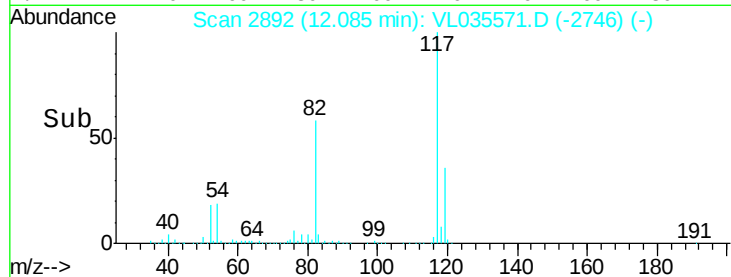
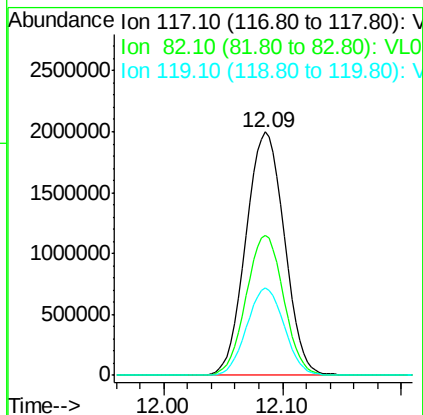
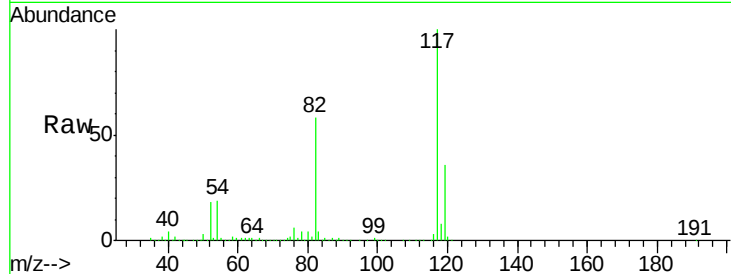
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.03 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tot Ion:117 Resp: 4486351
Ion Ratio Lower Upper
117 100
82 56.1 41.6 62.4
119 34.8 29.3 43.9

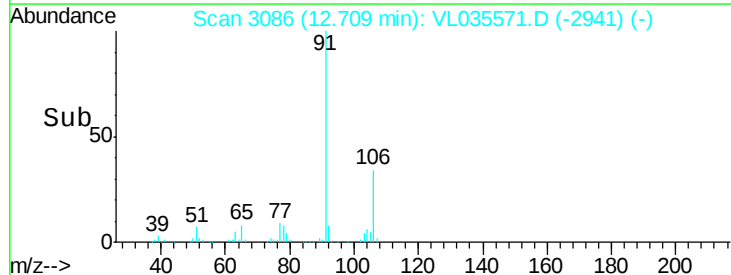
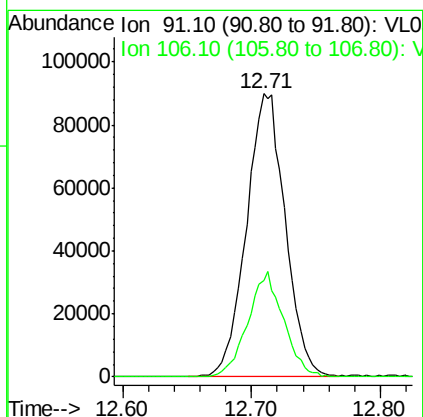
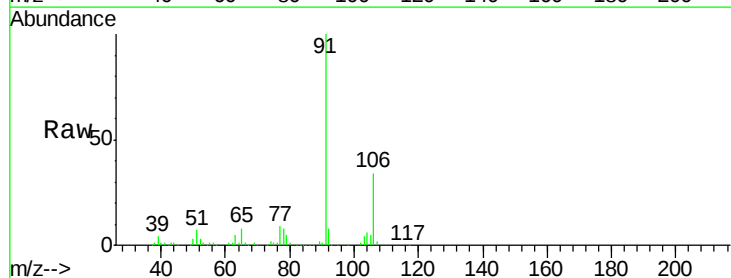
Manual Integrations
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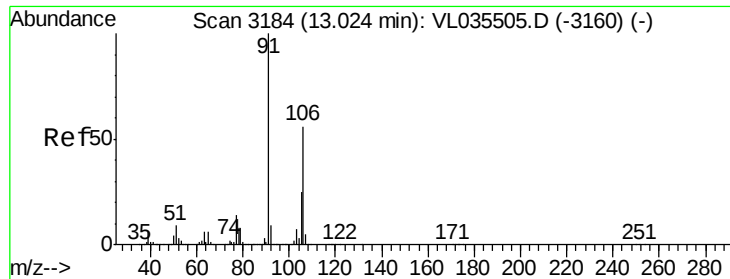
MMDadoda
9/10/2020 10:45:37 AM



#58
Ethyl Benzene
Concen: 0.408 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.03 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Tgt Ion: 91 Resp: 188827
Ion Ratio Lower Upper
91 100
106 34.2 30.3 45.5





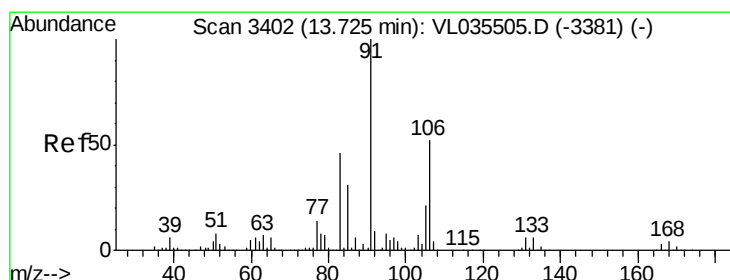
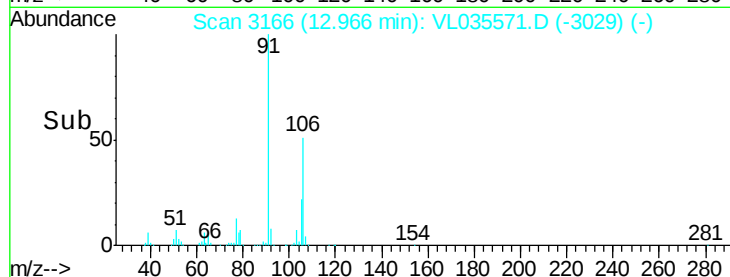
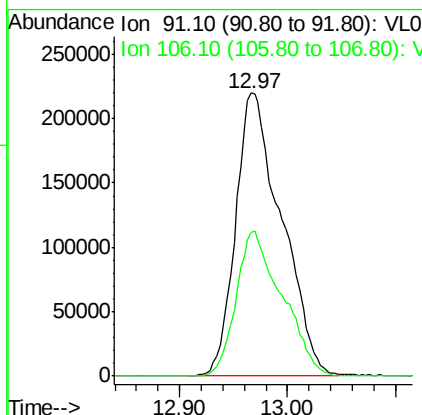
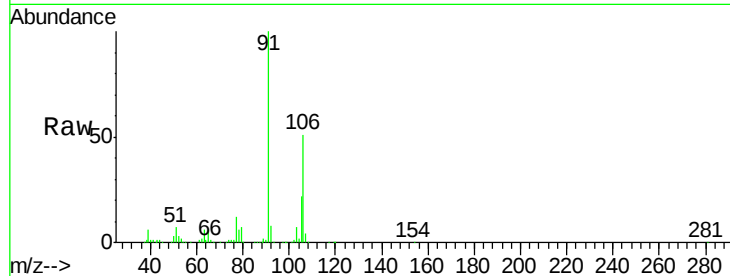
#59
m/p-Xylene
Concen: 1.683 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.06 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion: 91 Resp: 650683
Ion Ratio Lower Upper
91 100
106 51.2 43.4 65.2

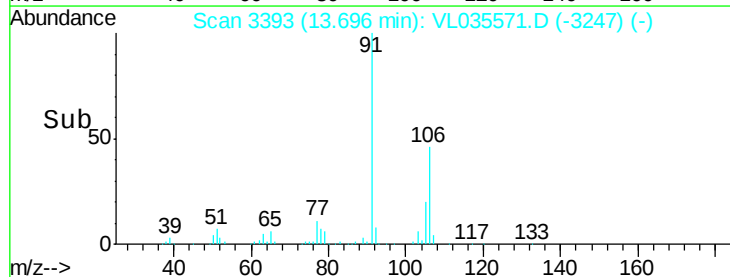
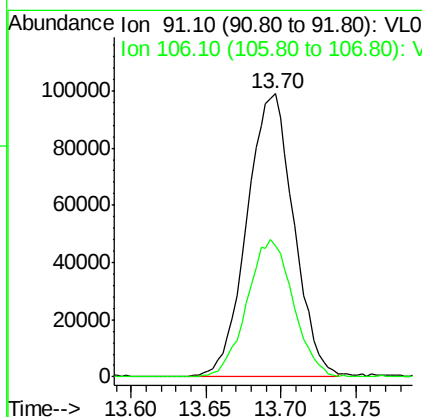
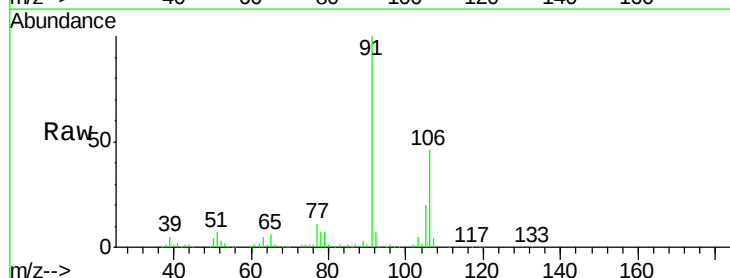
Manual Integrations
APPROVED

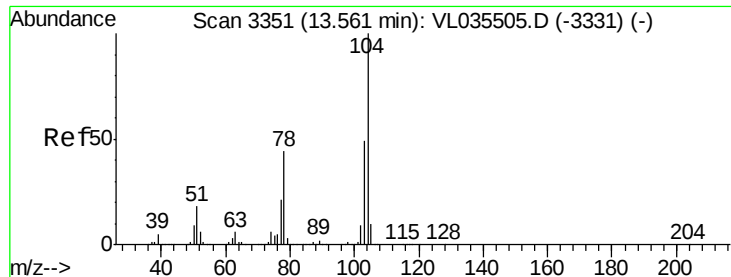
MMDadoda
9/10/2020 10:45:37 AM



#60
o-Xylene
Concen: 0.550 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.03 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Tgt Ion: 91 Resp: 214278
Ion Ratio Lower Upper
91 100
106 47.9 25.8 77.4





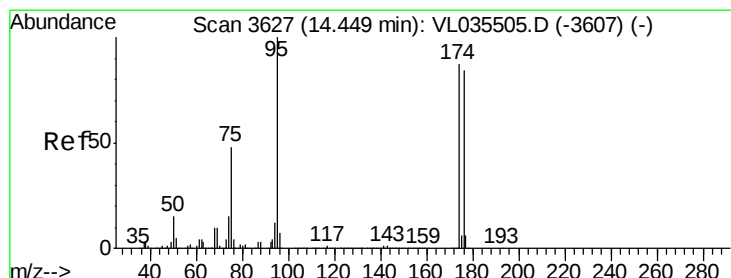
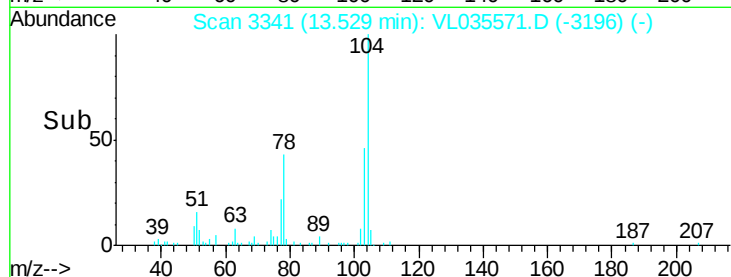
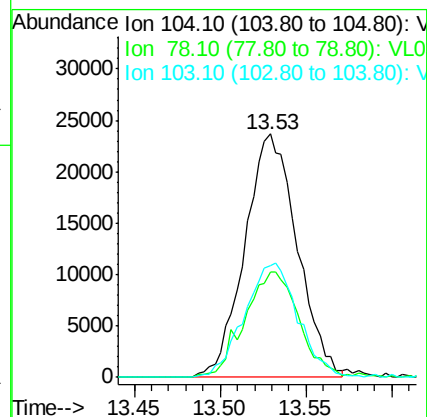
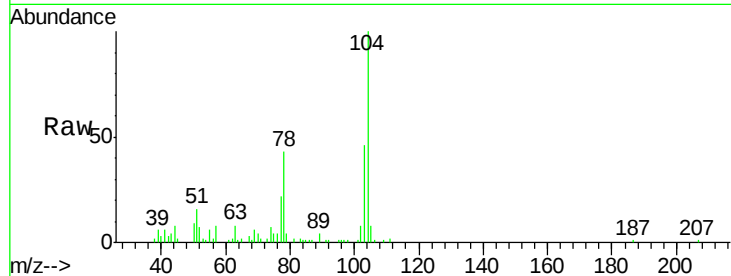
#61
Stvrene
Concen: 0.168 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. -0.03 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tot Ion	Ratio	Lower	Upper
104	100		
78	45.6	34.8	52.2
103	47.9	38.2	57.4

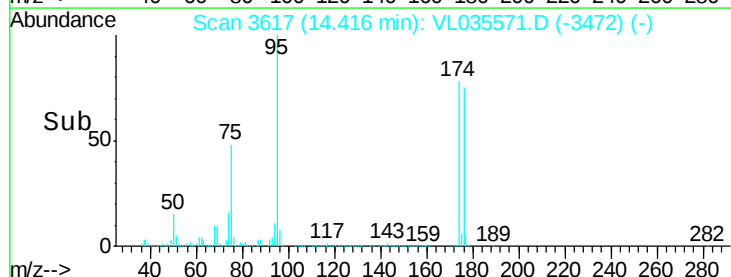
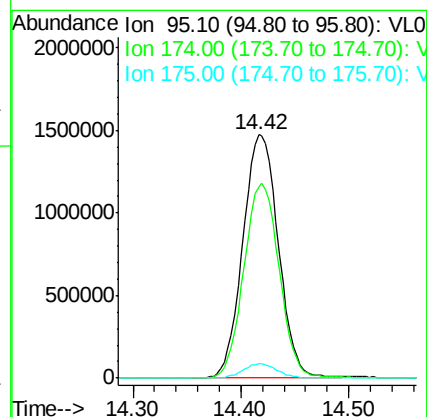
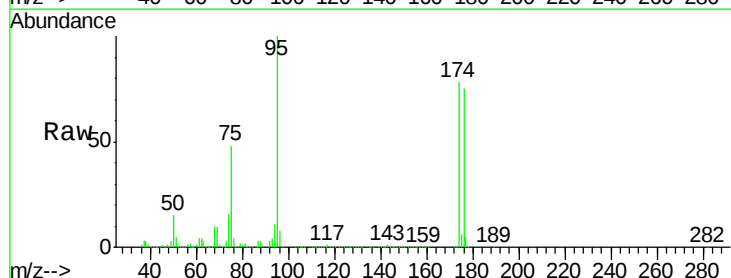
Manual Integrations
APPROVED

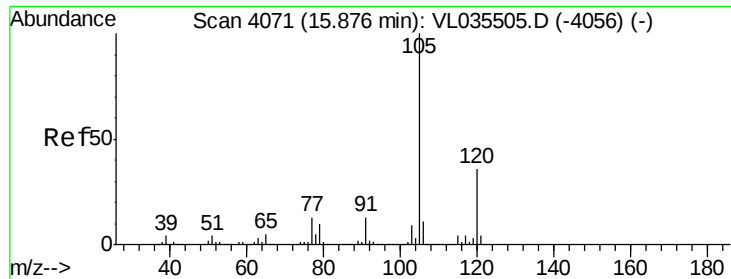
MMDadoda
9/10/2020 10:45:37 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.616 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.03 min
Lab File: VL035571.D
Acq: 9 Sep 2020 1:06

Tgt Ion	Ratio	Lower	Upper
95	100		
174	80.5	69.6	104.4
175	5.8	5.1	7.7





#72

4-Ethyltoluene

Concen: 0.181 ppbv

RT: 15.84 min Scan# 4061

Delta R.T. -0.03 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Instrument :

MSVOA_L

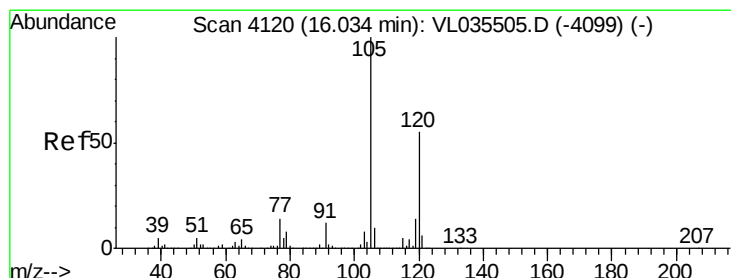
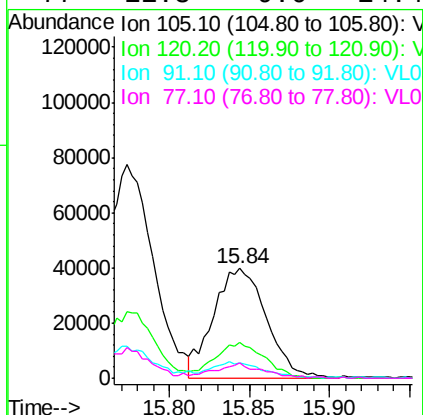
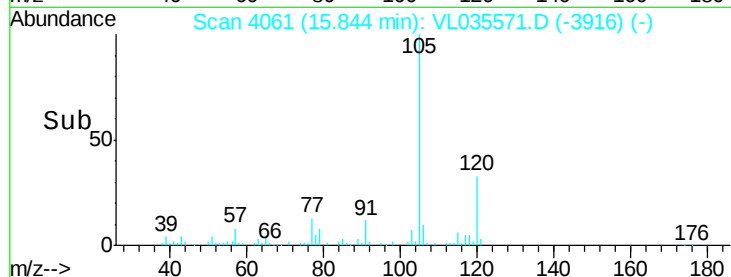
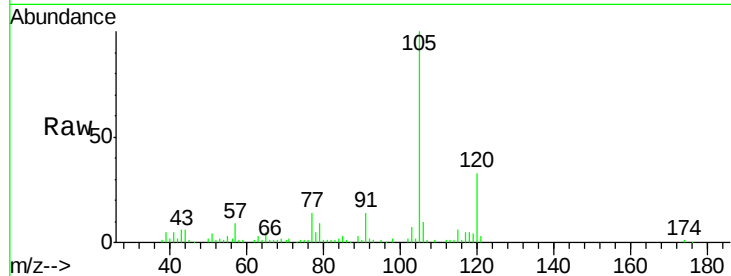
ClientSampled :

VIBLK

Tot Ion:	105	Resp:	89637
Ion Ratio	Lower	Upper	
105	100		
120	31.0	27.4	41.2
91	13.2	9.7	14.5
77	11.3	9.6	14.4

Manual Integrations
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#73

1,3,5-Trimethylbenzene

Concen: 0.176 ppbv

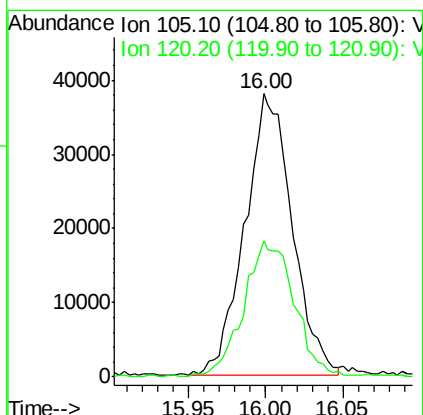
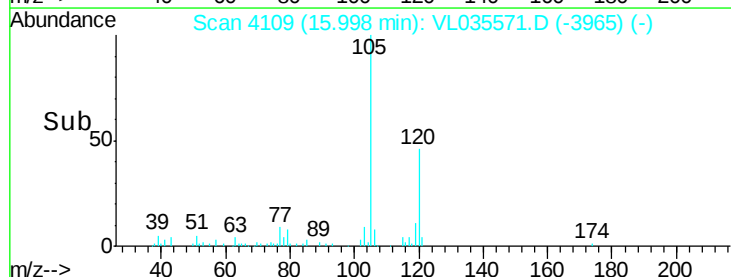
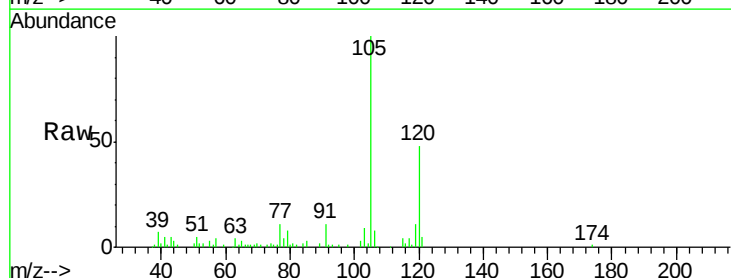
RT: 16.00 min Scan# 4109

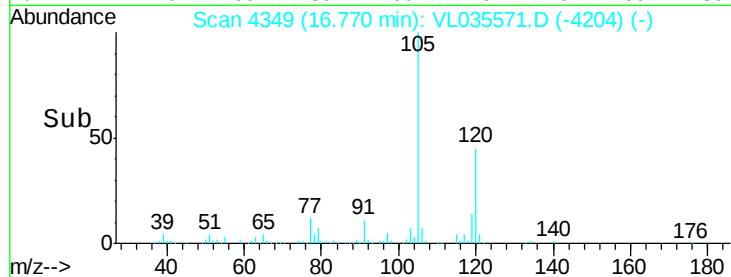
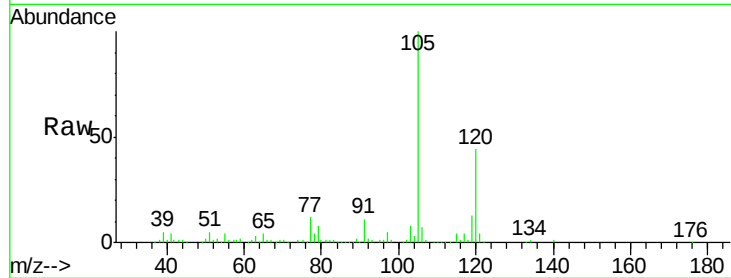
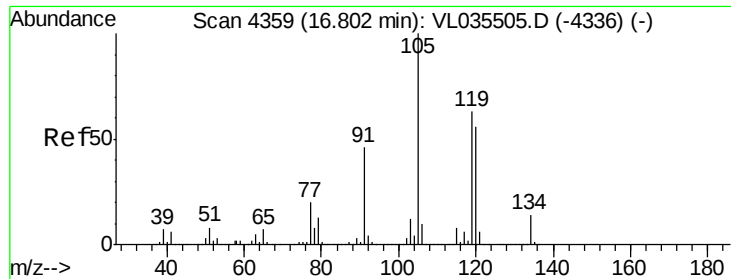
Delta R.T. -0.04 min

Lab File: VL035571.D

Acq: 9 Sep 2020 1:06

Tgt Ion:	105	Resp:	80663
Ion Ratio	Lower	Upper	
105	100		
120	48.5	44.2	66.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.596 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.03 min
 Lab File: VL035571.D
 Acq: 9 Sep 2020 1:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Tot Ion	Ion	Ratio	Resp Lower	Resp Upper
105	105	100		
120	120	44.1	44.4	66.6#
91	91	10.6	37.1	55.7#
77	77	12.5	16.0	24.0#

Manual Integrations
 APPROVED

MMDadoda
 9/10/2020 10:45:37 AM

