

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035612.D
 Acq On : 14 Sep 2020 23:33
 Operator : SY/AP
 Sample : L3983-01 20X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 5:40:47 PM

Quant Time: Sep 17 16:42:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1033669	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4472164	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	4129263	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3165179	10.79	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.12	50	9438	0.154	ppbv #	85
5) Vinyl Chloride	3.24	62	138124	1.829	ppbv	98
9) Propene	3.00	41	132859	3.015	ppbv	89
10) Heptane	8.12	43	40904	0.346	ppbv #	18
13) Ethanol	3.60	45	49002	4.484	ppbv	99
15) Acetone	3.84	43	4019068	35.254	ppbv	93
17) tert-Butyl alcohol	4.30	59	105462	0.760	ppbv	96
18) 1,1-Dichloroethene	4.28	96	429526	4.947	ppbv	97
19) Isopropyl Alcohol	3.97	45	36510	0.537	ppbv #	93
20) Methylene Chloride	4.33	84	56232	0.662	ppbv	96
22) trans-1,2-Dichloroethene	4.87	96	728368	7.880	ppbv	95
26) Hexane	5.67	57	73247	0.642	ppbv #	45
27) Carbon Disulfide	4.54	76	45029	0.275	ppbv #	94
29) Chloroform	5.74	83	92830	0.399	ppbv	97
30) Cyclohexane	7.12	84	27265	0.223	ppbv #	91
31) cis-1,2-Dichloroethene	5.54	61	10703306	91.421	ppbv #	88
34) 2-Butanone	5.26	43	383252	2.888	ppbv	100
36) Benzene	6.89	78	133934	0.463	ppbv	93
38) Trichloroethene	7.83	130	15321943m	91.117	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	1479601	3.884	ppbv	96
50) 4-Methyl-2-Pentanone	8.75	43	503430	2.620	ppbv	98
52) Tetrachloroethene	11.23	164	27646349m	163.473	ppbv	
53) Toluene	9.81	91	439631	1.208	ppbv	98
58) Ethyl Benzene	12.75	91	105967m	0.249	ppbv	
59) m/p-Xylene	13.01	91	314540	0.884	ppbv	95
60) o-Xylene	13.73	91	110283	0.308	ppbv	98
72) 4-Ethyltoluene	15.87	105	50780	0.111	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.02	105	34307m	0.081	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	126290	0.273	ppbv #	73

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

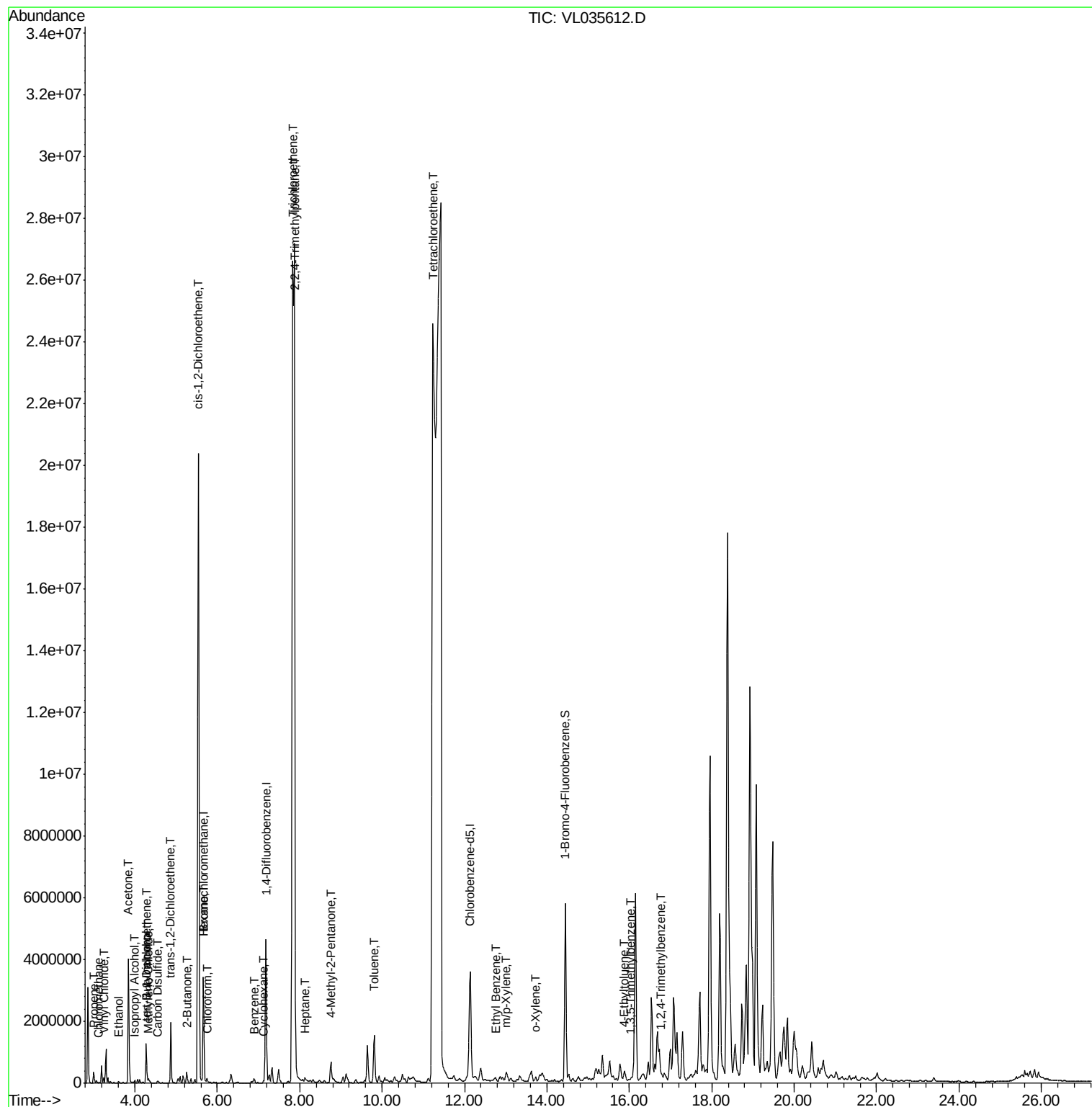
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
Data File : VL035612.D
Acq On : 14 Sep 2020 23:33
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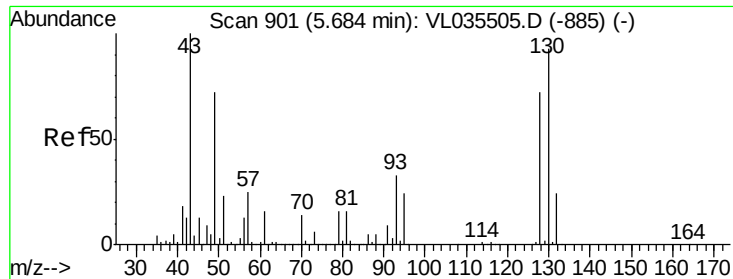
Instrument :
MSVOA_L
ClientSampleId :
SV-8

Manual Integrations
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9/17/2020 5:40:47 PM

Quant Time: Sep 17 16:42:36 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





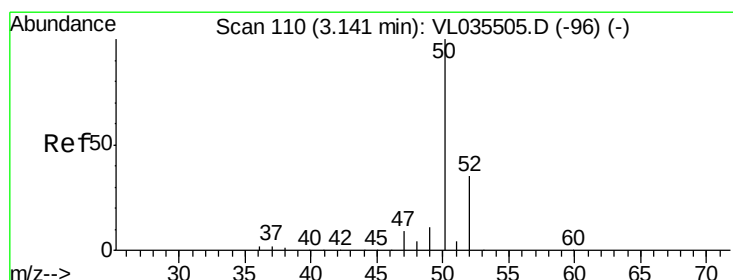
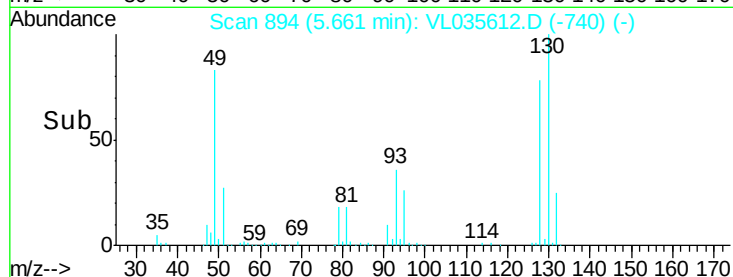
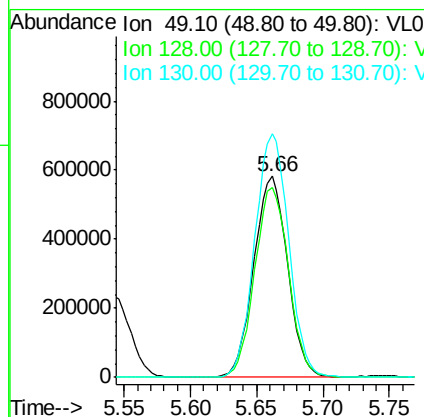
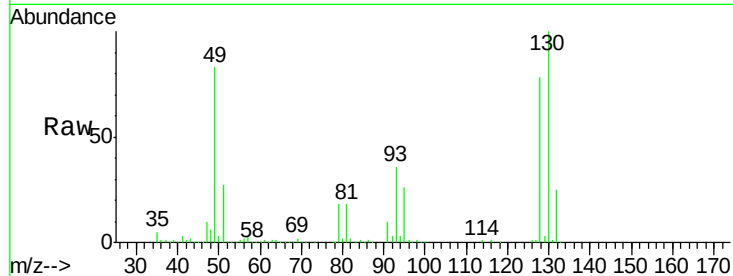
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Instrument :
MSVOA_L
ClientSampled :
SV-8

Tot Ion: 49 Resp: 1033669
Ion Ratio Lower Upper
49 100
128 95.3 50.0 150.1
130 122.6 64.4 193.2

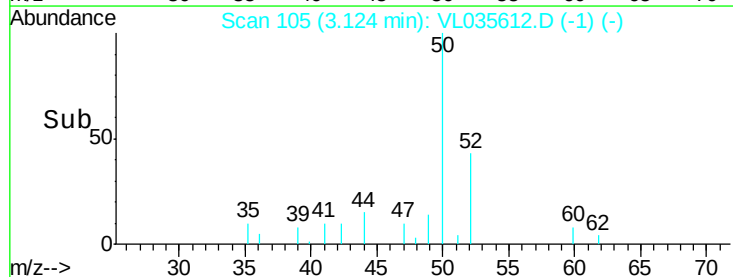
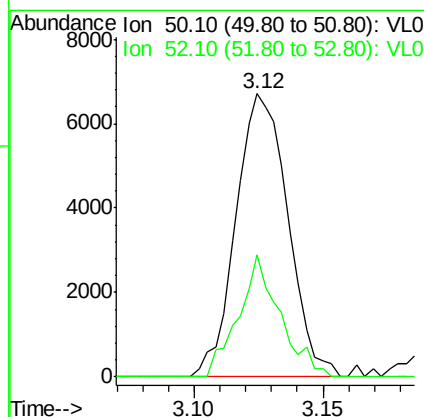
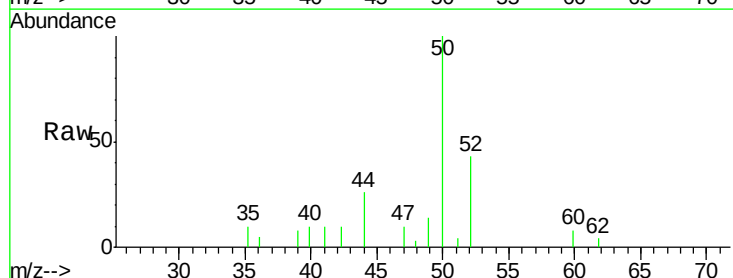
Manual Integrations
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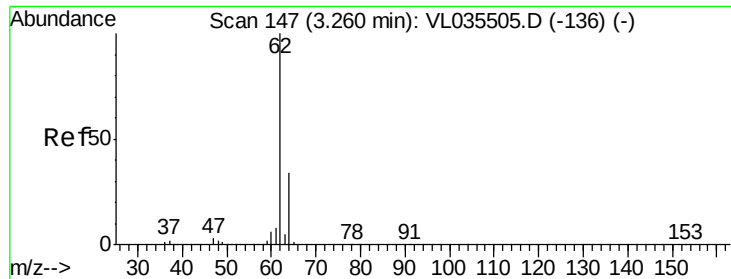
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#4
Chloromethane
Concen: 0.154 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.00 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tgt Ion: 50 Resp: 9438
Ion Ratio Lower Upper
50 100
52 43.2 27.7 41.5#





#5

Vinyl Chloride

Concen: 1.829 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.00 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

Instrument :

MSVOA_L

ClientSampleId :

SV-8

Tot Ion: 62 Resp: 138124

Ion Ratio Lower Upper

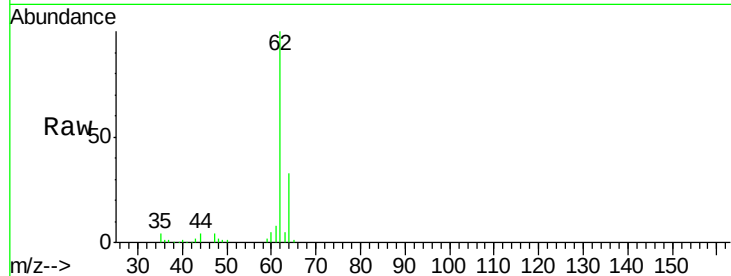
62 100

64 33.2 27.4 41.2

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.24

120000

100000

80000

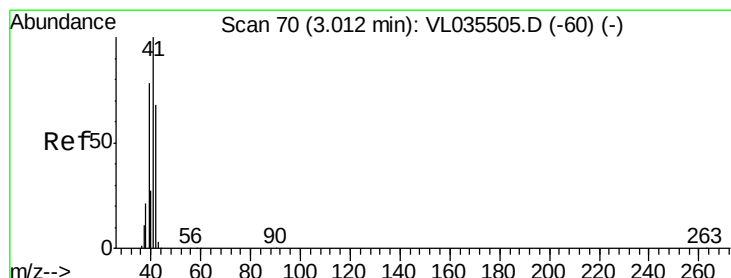
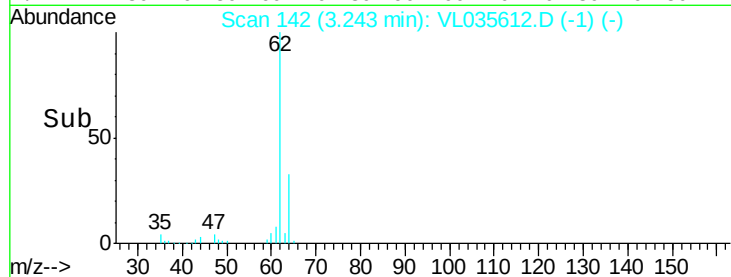
60000

40000

20000

0

Time-->



#9

Propene

Concen: 3.015 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL035612.D

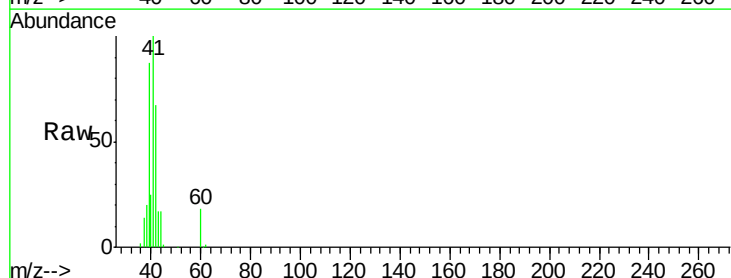
Acq: 14 Sep 2020 23:33

Tgt Ion: 41 Resp: 132859

Ion Ratio Lower Upper

41 100

42 61.6 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

100000

80000

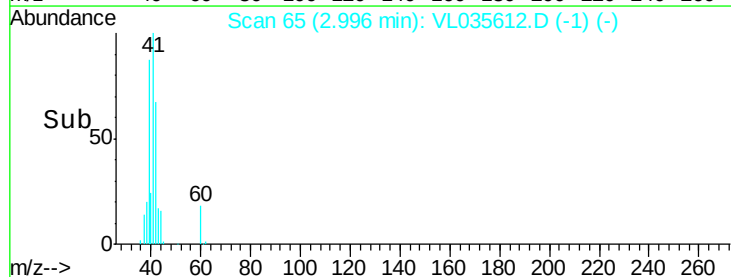
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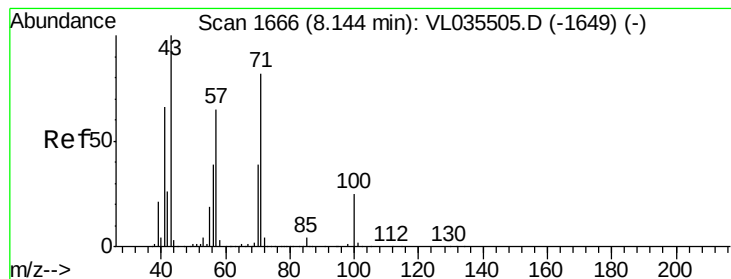
40000

20000

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Time-->





#10

Heptane

Concen: 0.346 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

Instrument :

MSVOA_L

ClientSampleId :

SV-8

Tot Ion: 43 Resp: 40904

Ion Ratio Lower Upper

43 100

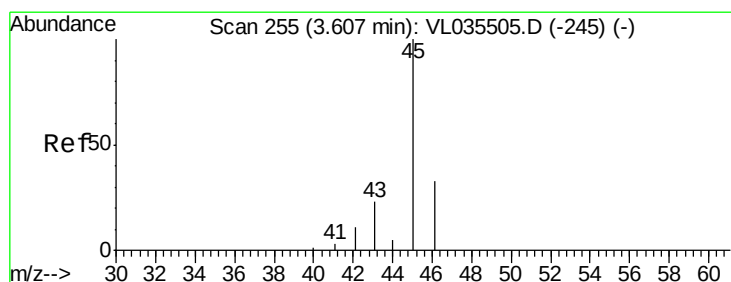
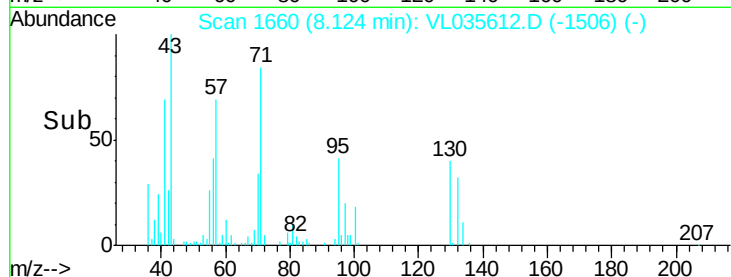
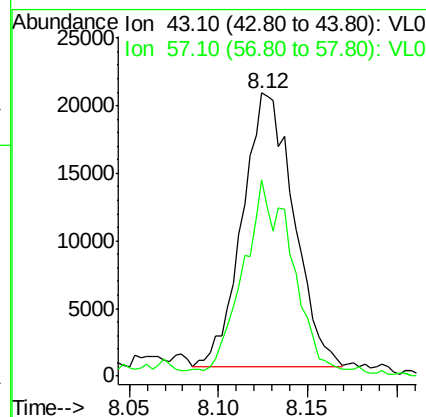
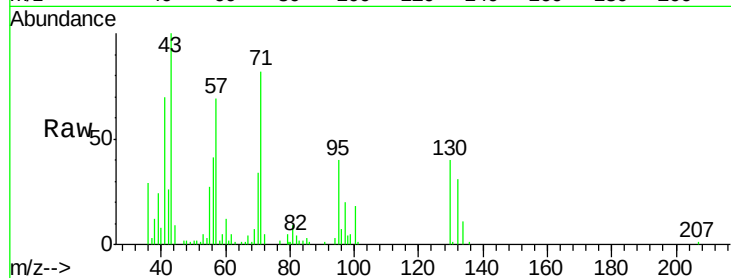
57 0.0 51.4 77.0#

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#13

Ethanol

Concen: 4.484 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL035612.D

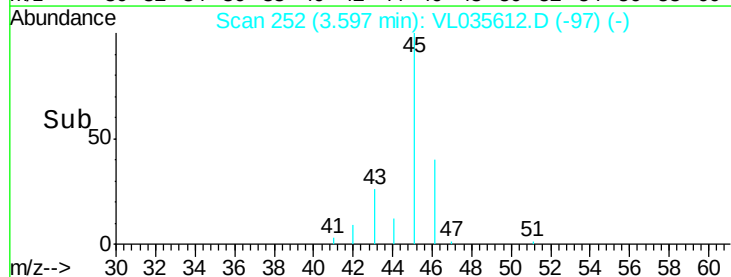
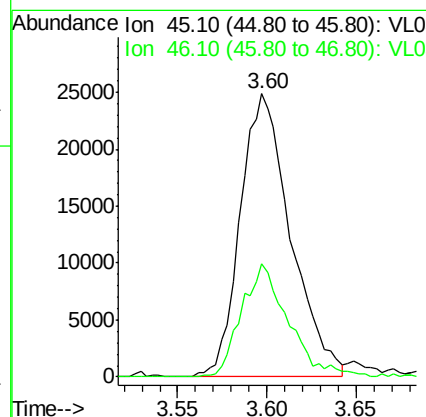
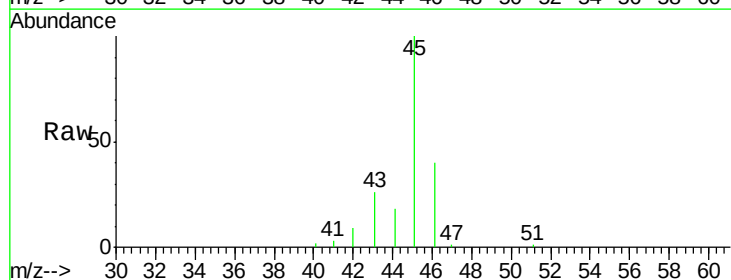
Acq: 14 Sep 2020 23:33

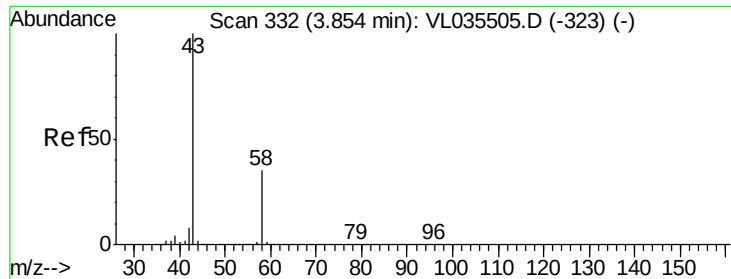
Tgt Ion: 45 Resp: 49002

Ion Ratio Lower Upper

45 100

46 37.5 15.2 60.6





#15

Acetone

Concen: 35.254 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

Instrument :

MSVOA_L

ClientSampled :

SV-8

Tot Ion: 43 Resp: 4019068

Ion Ratio Lower Upper

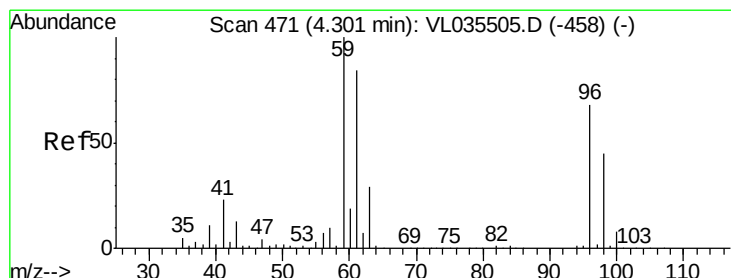
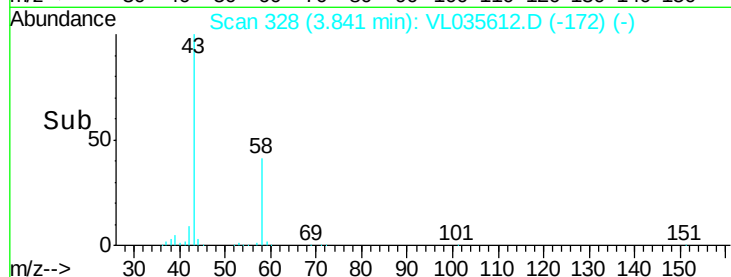
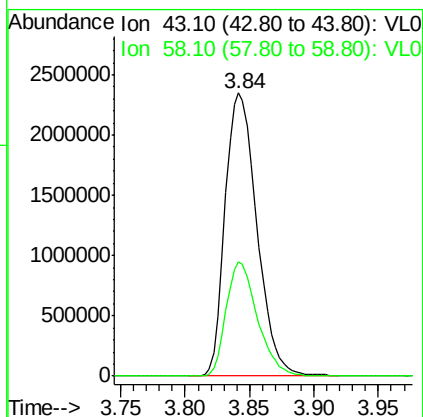
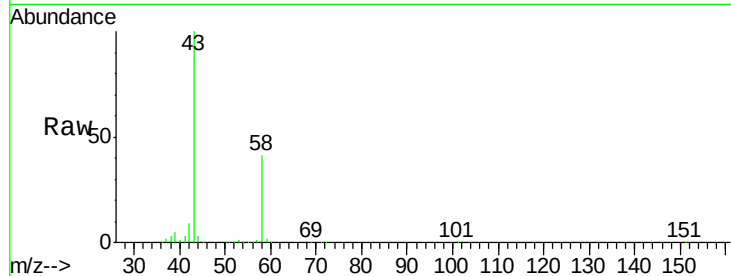
43 100

58 39.9 28.4 42.6

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 0.760 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.02 min

Lab File: VL035612.D

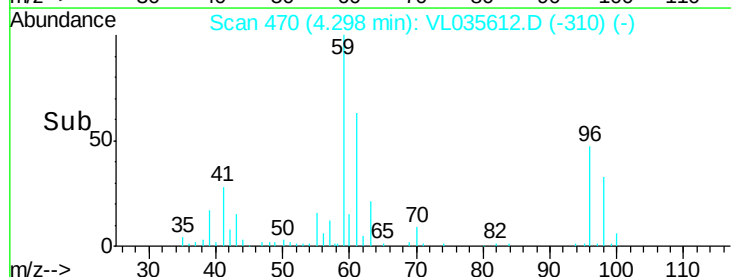
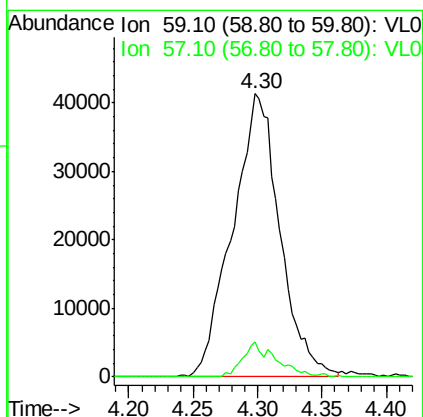
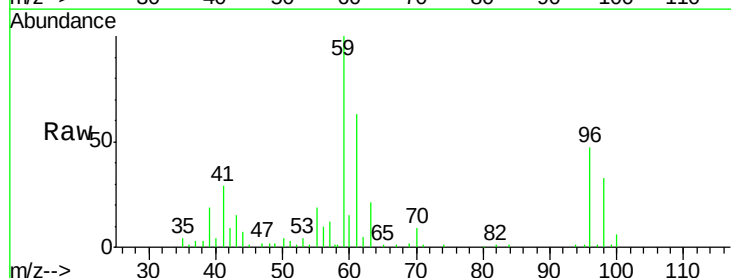
Acq: 14 Sep 2020 23:33

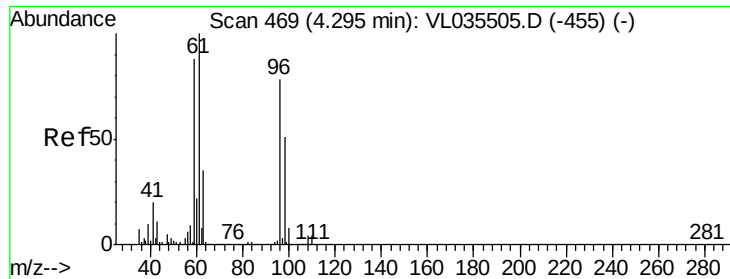
Tgt Ion: 59 Resp: 105462

Ion Ratio Lower Upper

59 100

57 8.9 8.4 12.6





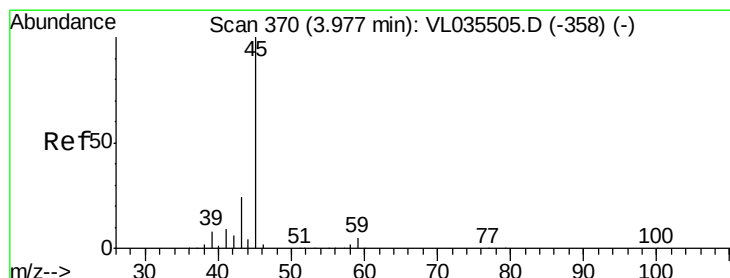
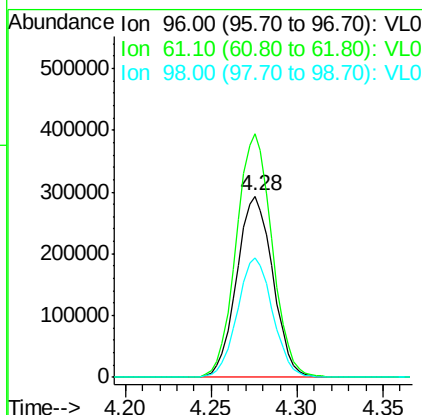
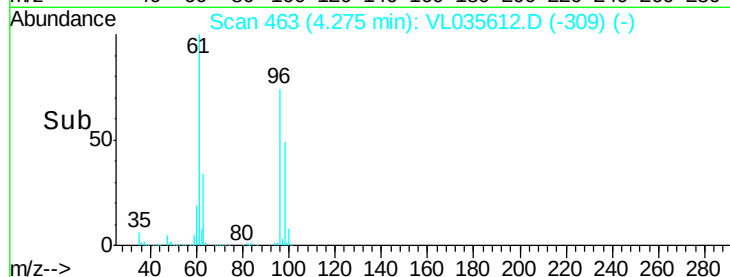
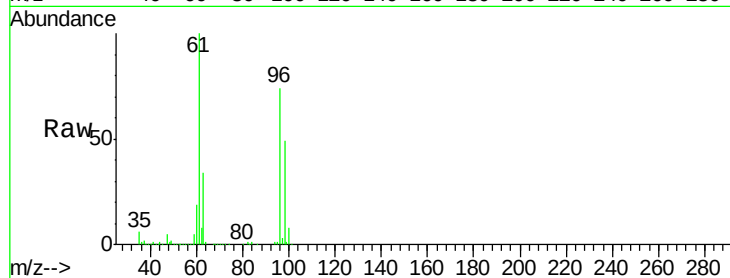
#18
 1,1-Dichloroethene
 Concen: 4.947 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. -0.00 min
 Lab File: VL035612.D
 Acq: 14 Sep 2020 23:33

Instrument :
 MSVOA_L
 ClientSampled :
 SV-8

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.2	103.0	154.6
98	65.8	52.8	79.2

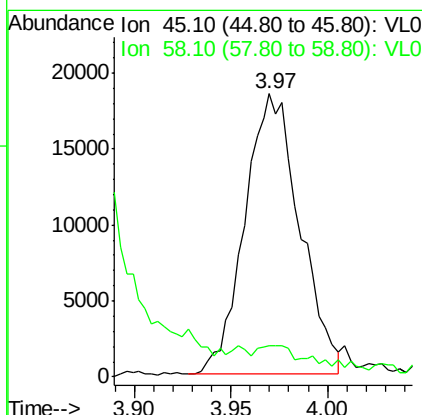
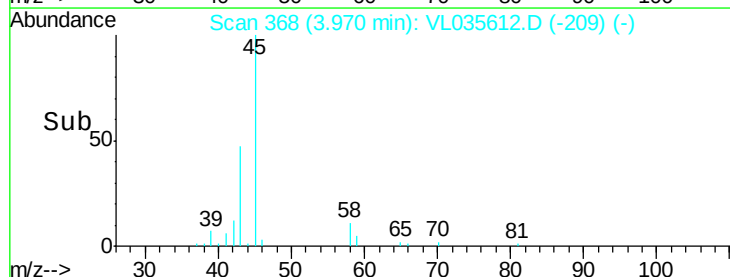
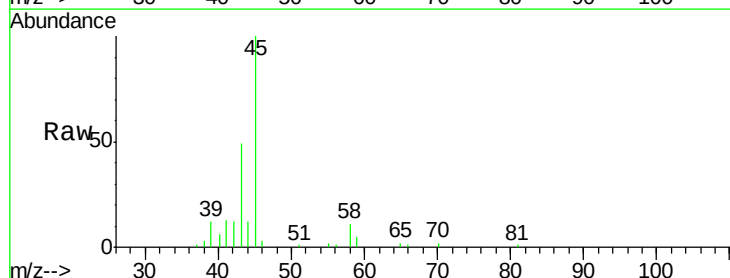
Manual Integrations
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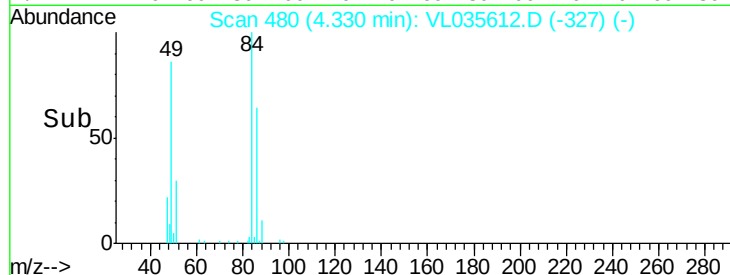
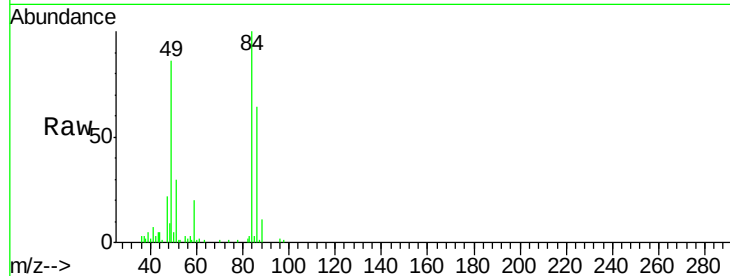
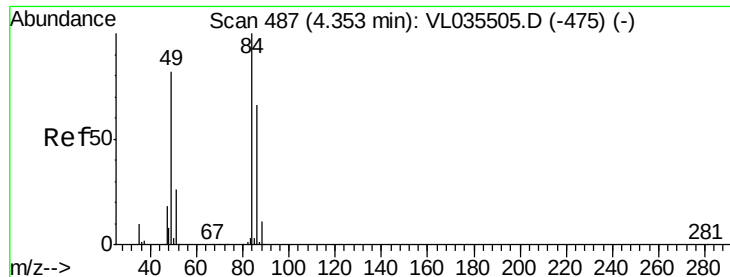
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#19
 Isopropyl Alcohol
 Concen: 0.537 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL035612.D
 Acq: 14 Sep 2020 23:33

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





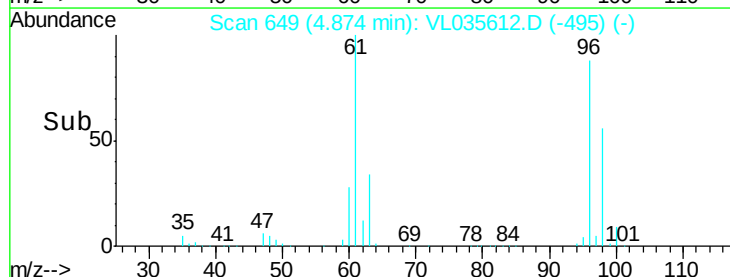
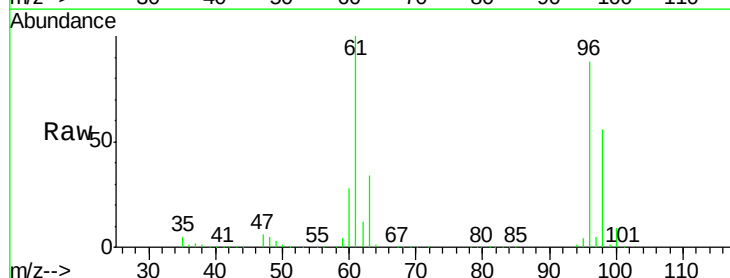
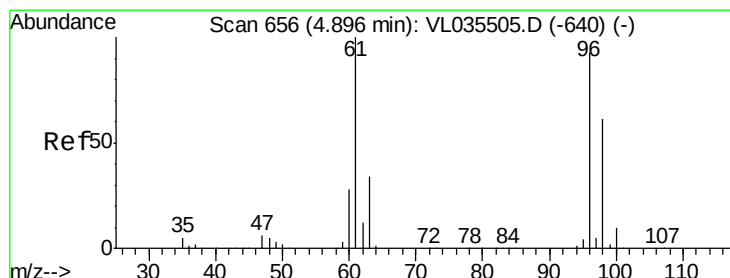
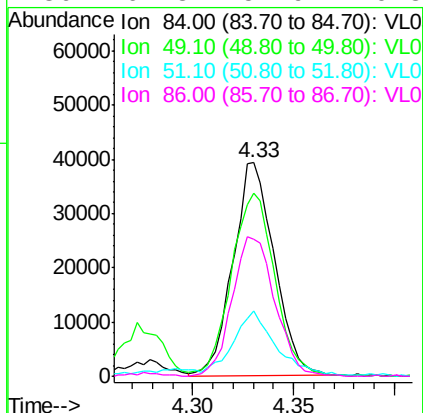
#20
Methvlene Chloride
Concen: 0.662 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tot Ion:	84	Resp:	56232
Ion	Ratio	Lower	Upper
84	100		
49	85.6	65.4	98.0
51	30.0	21.5	32.3
86	64.3	52.9	79.3

Instrument :
MSVOA_L
ClientSampled :
SV-8

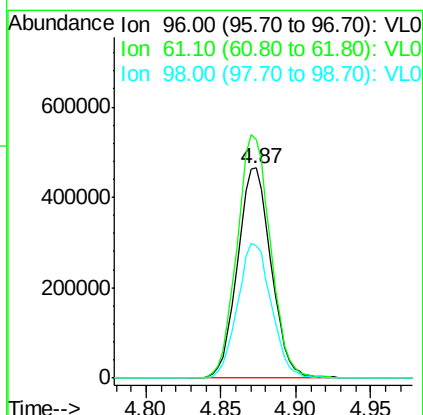
Manual Integrations
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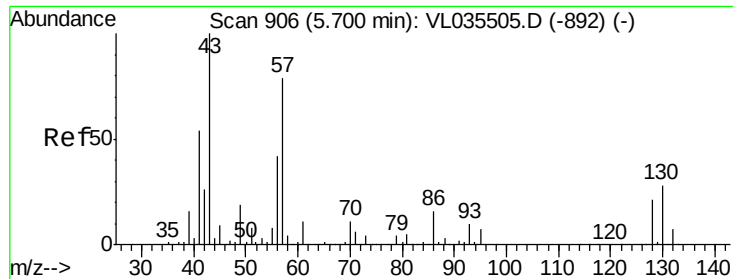
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#22
trans-1,2-Dichloroethene
Concen: 7.880 ppbv
RT: 4.87 min Scan# 649
Delta R.T. -0.00 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tgt Ion:	96	Resp:	728368
Ion	Ratio	Lower	Upper
96	100		
61	113.9	86.0	129.0
98	63.4	52.3	78.5





#26

Hexane

Concen: 0.642 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

Instrument :

MSVOA_L

ClientSampled :

SV-8

Tot Ion: 57 Resp: 73247

Ion Ratio Lower Upper

57 100

41 89.6 55.9 83.9#

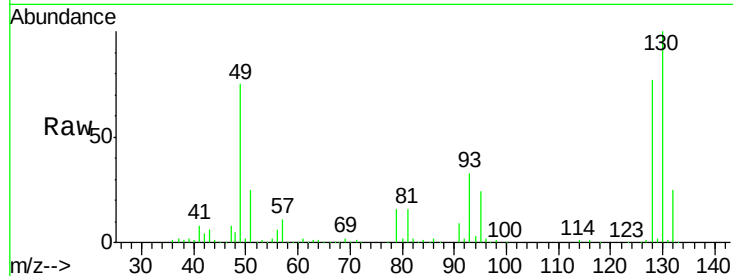
43 67.0 141.8 212.8#

56 62.6 41.8 62.8

Manual Integrations
APPROVED

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9/17/2020 5:40:47 PM

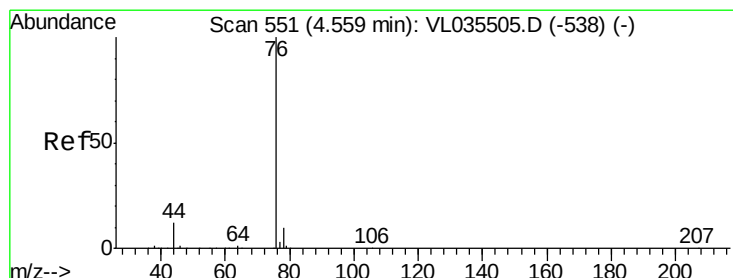
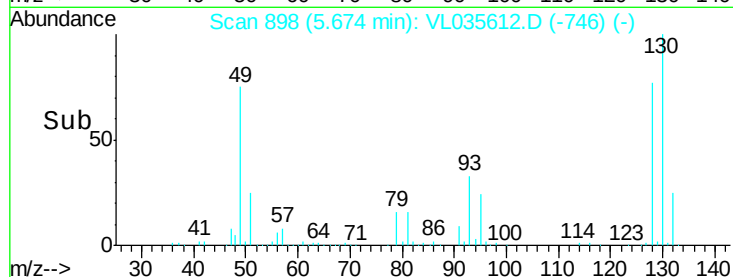
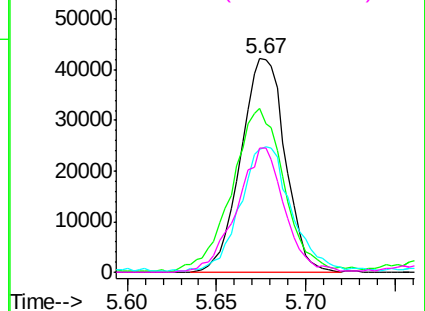


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.275 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.00 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

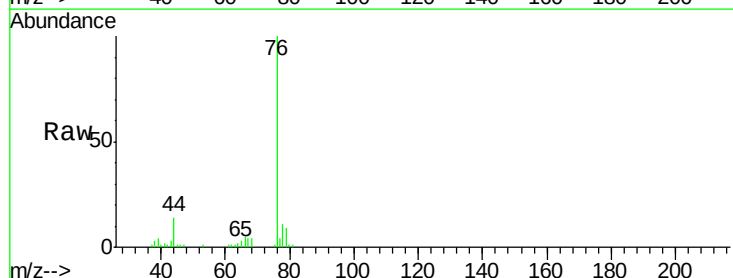
Tgt Ion: 76 Resp: 45029

Ion Ratio Lower Upper

76 100

44 15.7 9.3 13.9#

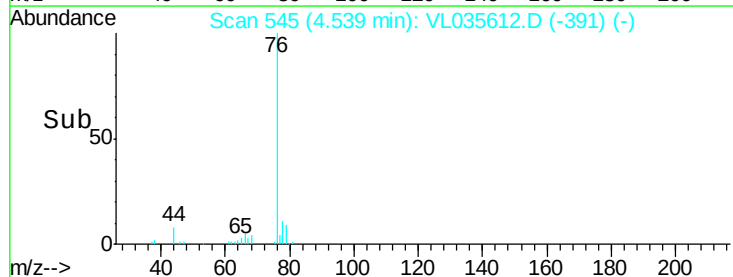
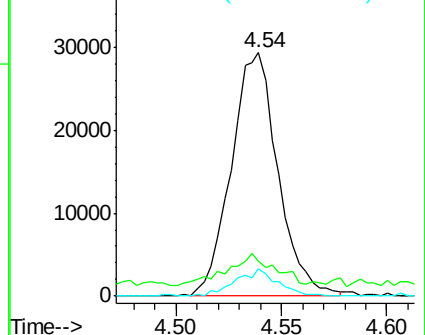
78 10.2 7.8 11.6

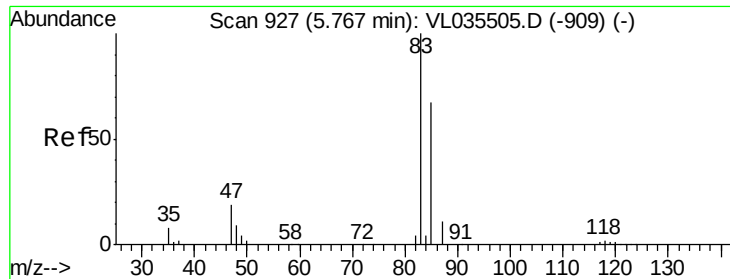


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





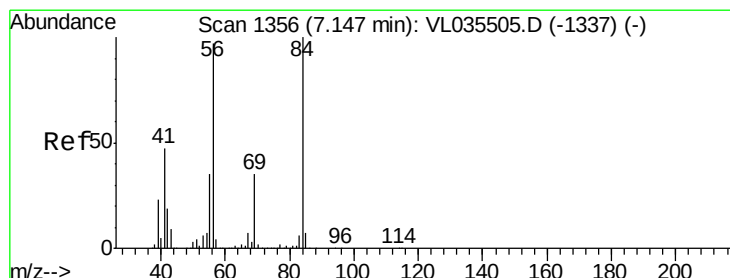
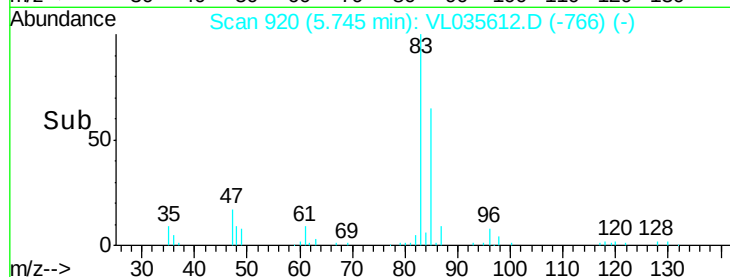
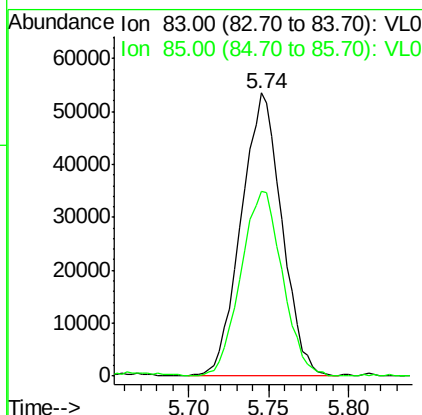
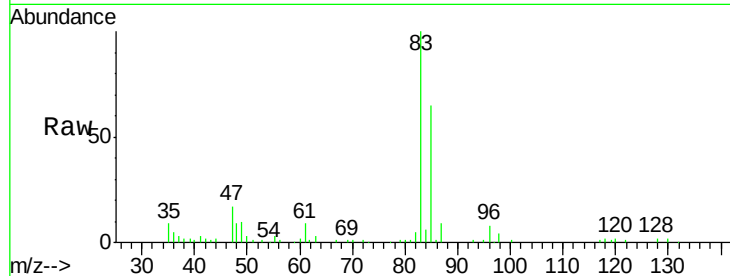
#29
Chloroform
Concen: 0.399 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.00 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Instrument :
MSVOA_L
ClientSampled :
SV-8

Tot Ion	83	Resp	92830
Ion Ratio	100	Lower	Upper
83	100		
85	65.3	53.9	80.9

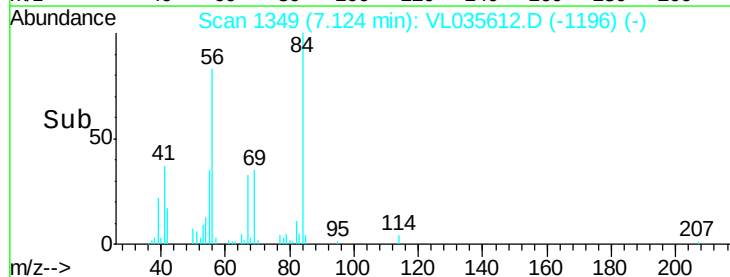
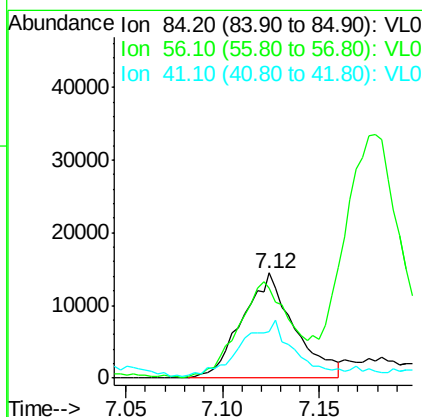
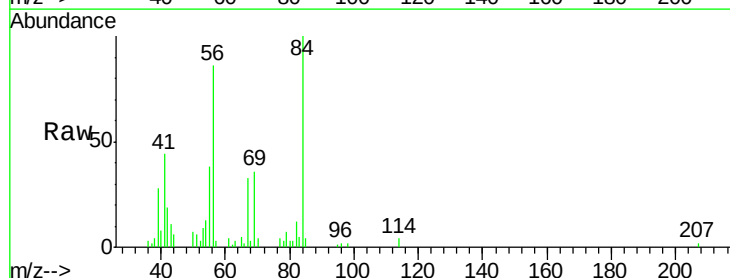
Manual Integrations
APPROVED

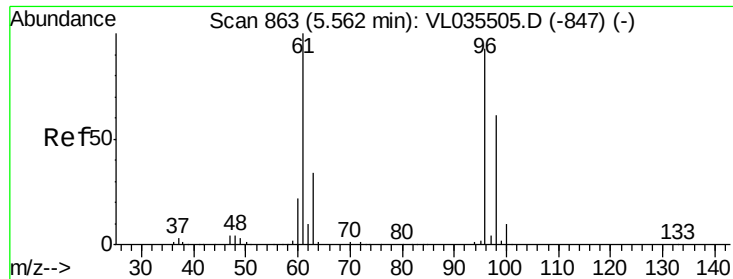
MMDadoda
9/17/2020 5:40:47 PM



#30
Cyclohexane
Concen: 0.223 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tgt Ion	84	Resp	27265
Ion Ratio	100	Lower	Upper
84	100		
56	94.4	80.1	120.1
41	57.6	38.1	57.1#





#31

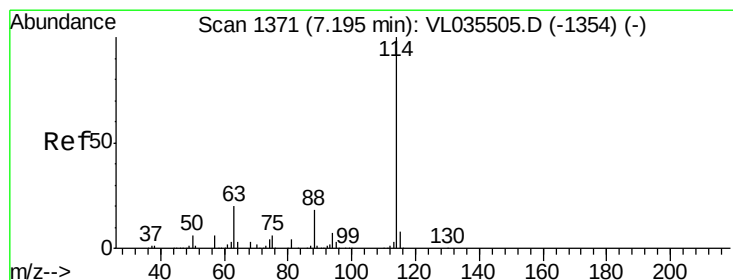
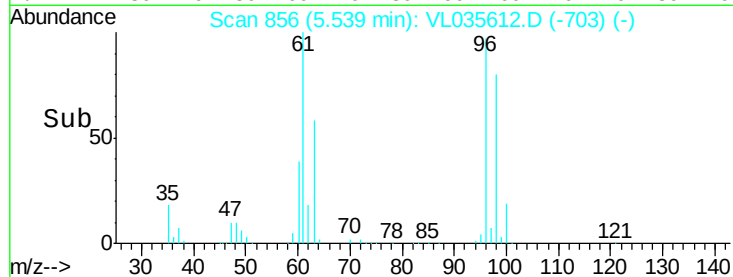
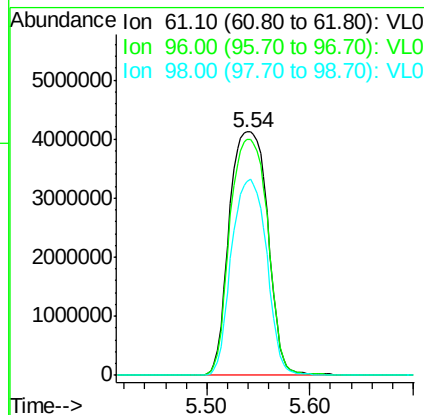
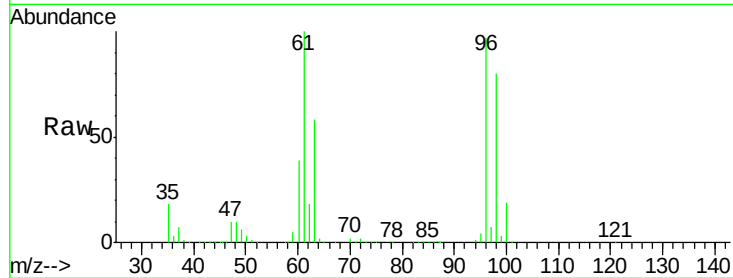
cis-1,2-Dichloroethene
Concen: 91.421 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.01 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Instrument :
MSVOA_L
ClientSampled :
SV-8

Tot Ion: 61 Resp:10703306
Ion Ratio Lower Upper
61 100
96 96.7 74.4 111.6
98 79.8 49.2 73.8#

Manual Integrations
APPROVED

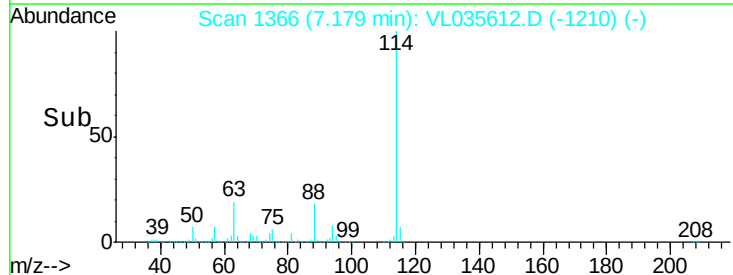
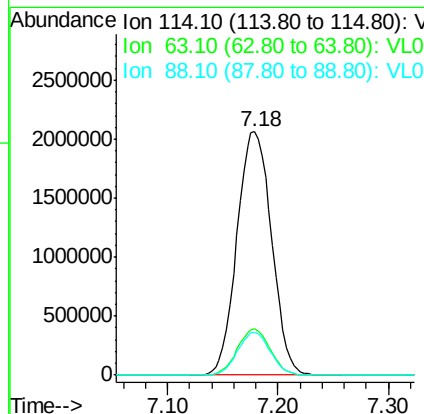
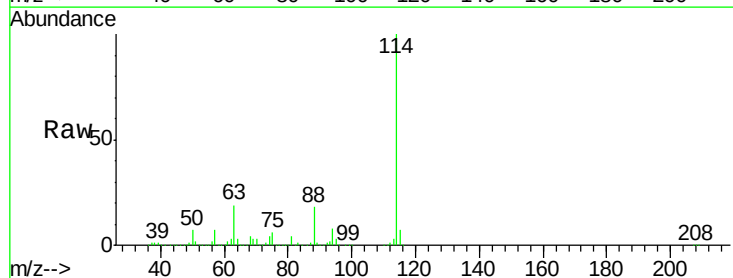
MMDadoda
9/17/2020 5:40:47 PM

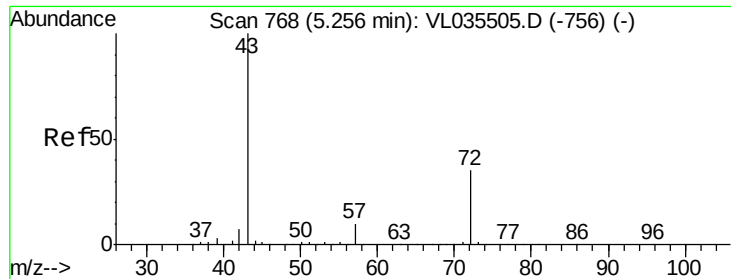


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.00 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tgt Ion:114 Resp: 4472164
Ion Ratio Lower Upper
114 100
63 18.1 14.7 22.1
88 16.7 13.4 20.2





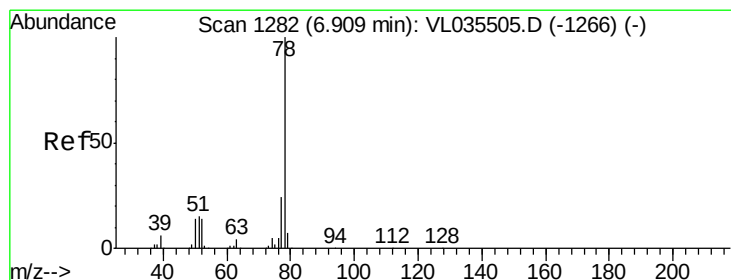
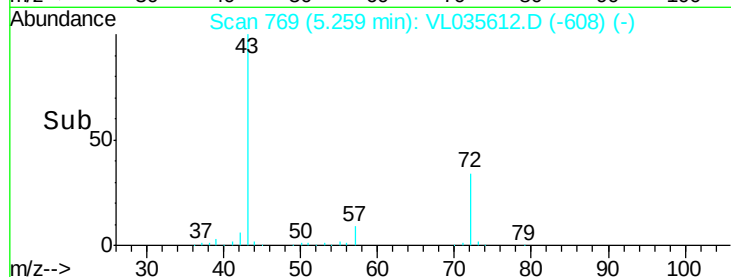
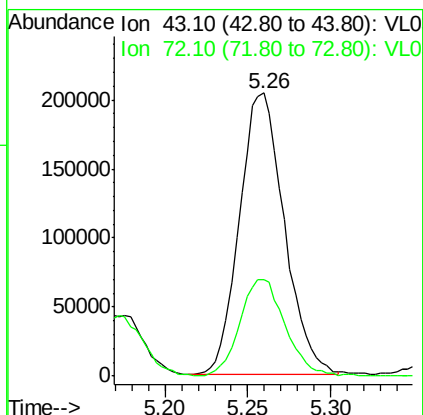
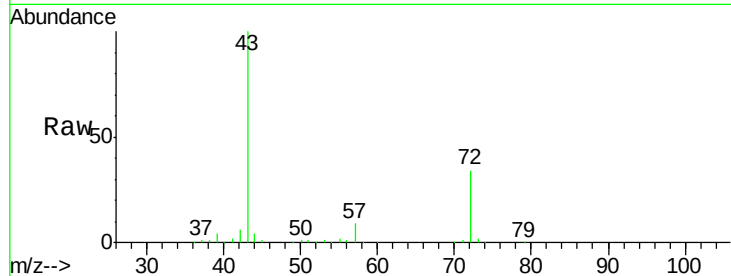
#34
2-Butanone
Concen: 2.888 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.02 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Instrument :
MSVOA_L
ClientSampleId :
SV-8

Tot Ion: 43 Resp: 383252
Ion Ratio Lower Upper
43 100
72 34.7 27.7 41.5

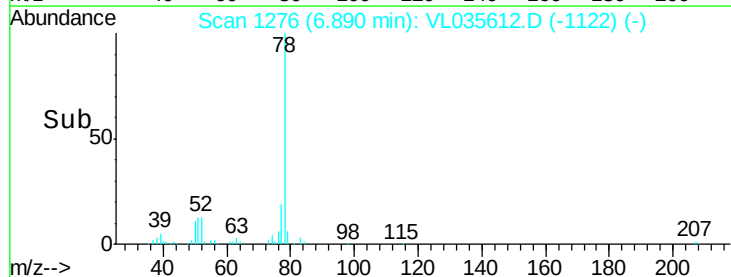
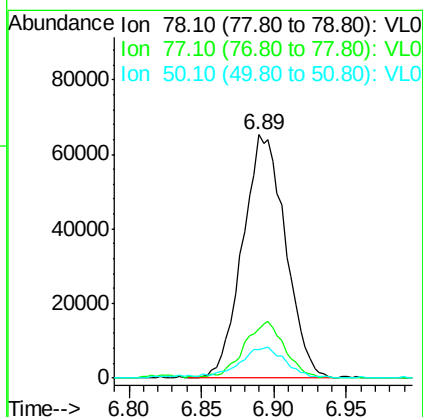
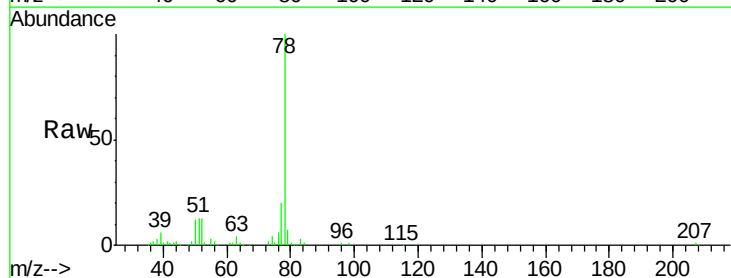
Manual Integrations
APPROVED

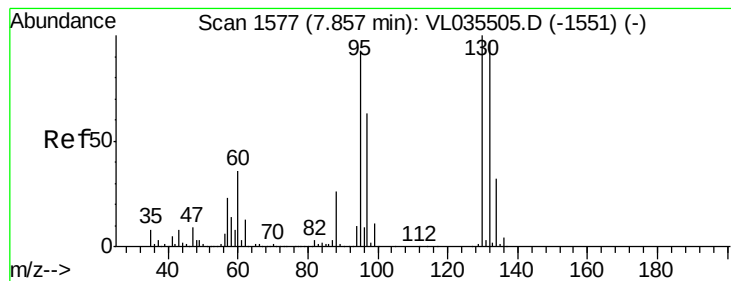
MMDadoda
9/17/2020 5:40:47 PM



#36
Benzene
Concen: 0.463 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tgt Ion: 78 Resp: 133934
Ion Ratio Lower Upper
78 100
77 20.1 19.3 28.9
50 11.7 11.0 16.6





#38

Trichloroethene

Concen: 91.117 ppbv m

RT: 7.83 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VL035612.D

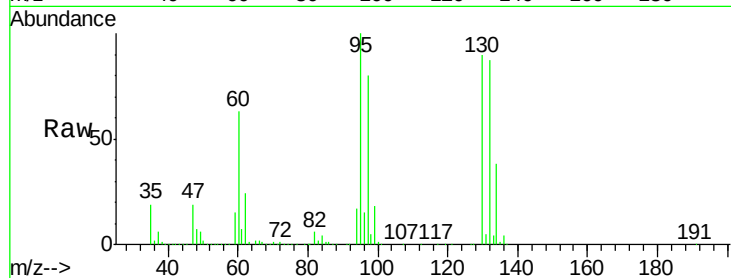
Acq: 14 Sep 2020 23:33

Instrument :

MSVOA_L

ClientSampled :

SV-8



Tot Ion:130 Resp:15321943

Ion Ratio Lower Upper

130 100

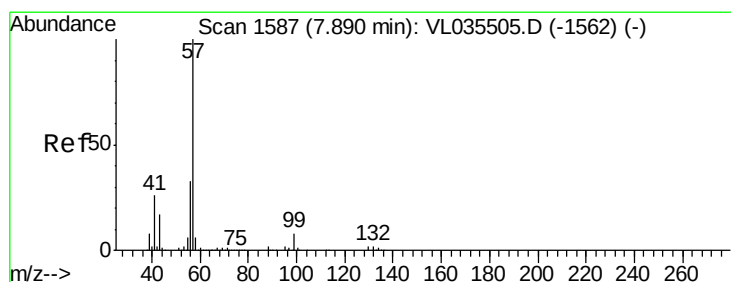
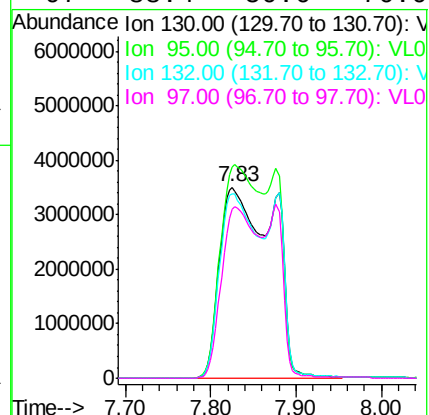
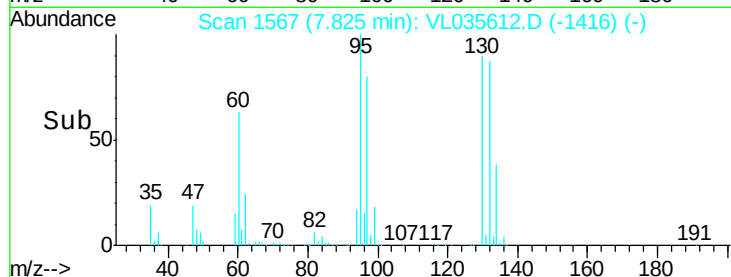
95 110.8 74.6 112.0

132 96.6 77.6 116.4

97 88.4 50.6 76.0#

Manual Integrations
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MMDadoda
9/17/2020 5:40:47 PM



#44

2,2,4-Trimethylpentane

Concen: 3.884 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.02 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

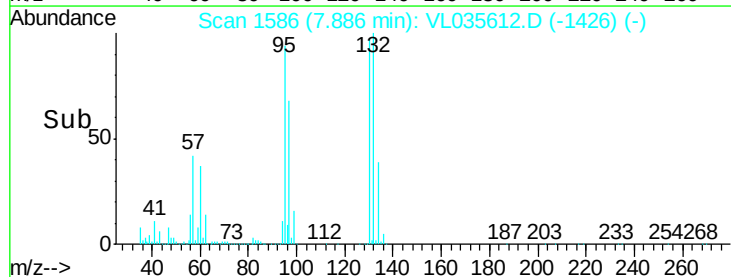
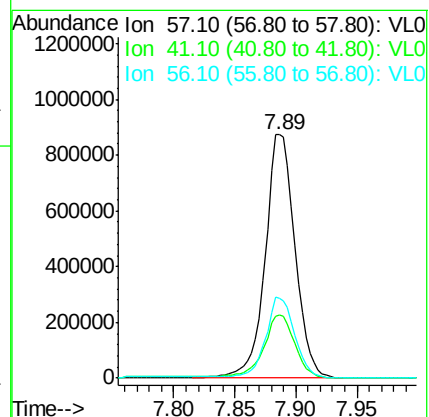
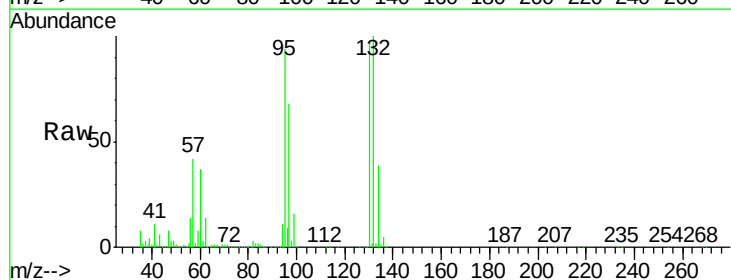
Tgt Ion: 57 Resp: 1479601

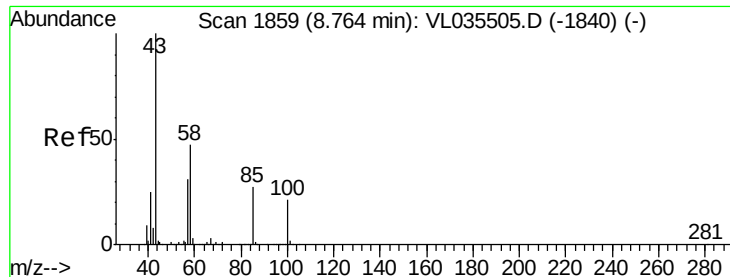
Ion Ratio Lower Upper

57 100

41 27.9 20.5 30.7

56 33.2 25.3 37.9





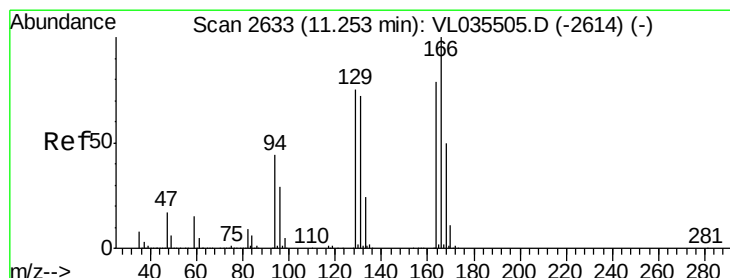
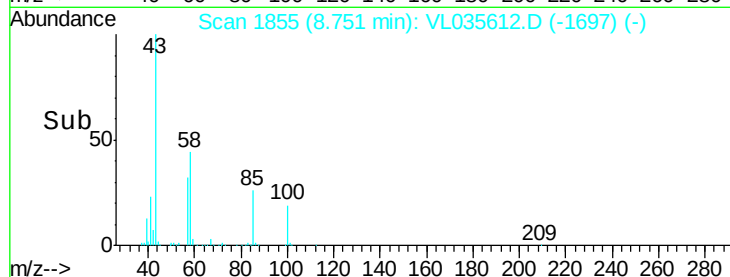
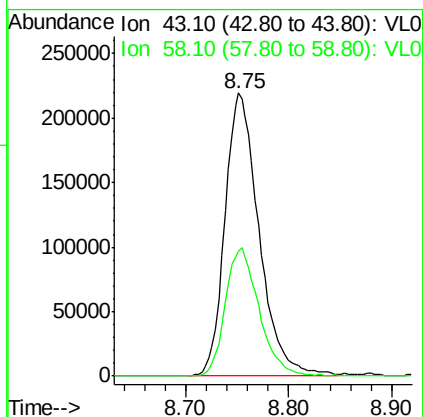
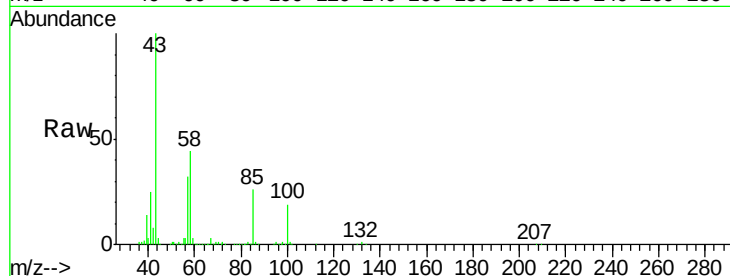
#50
4-Methyl-2-Pentanone
Concen: 2.620 ppbv
RT: 8.75 min Scan# 1855
Delta R.T. 0.01 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Instrument :
MSVOA_L
ClientSampled :
SV-8

Tot Ion: 43 Resp: 503430
Ion Ratio Lower Upper
43 100
58 45.1 37.4 56.0

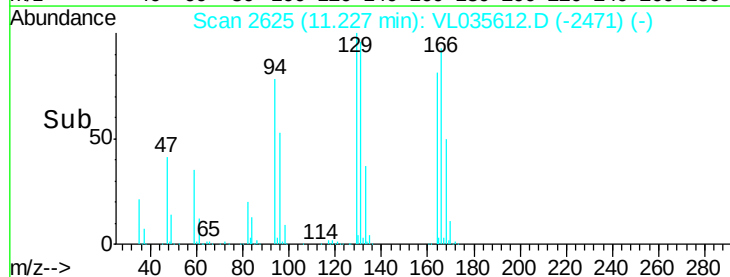
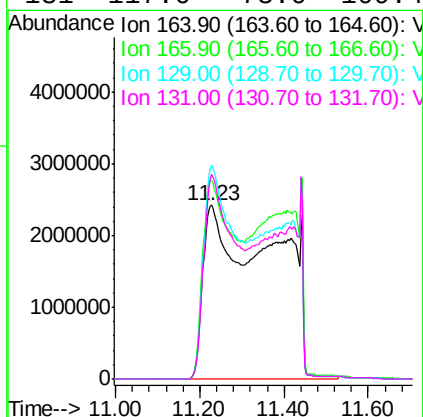
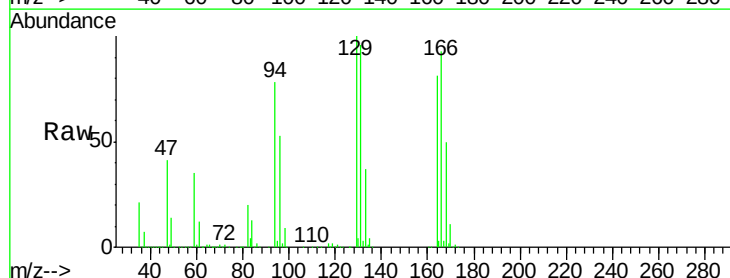
Manual Integrations
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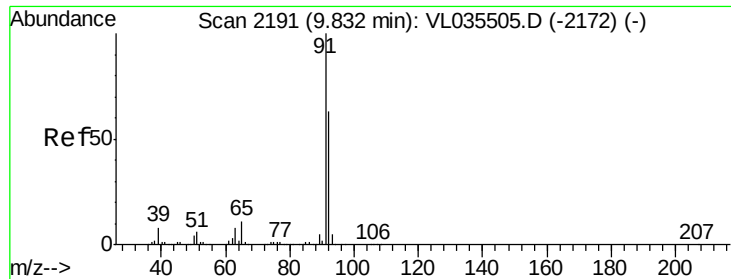
MMDadoda
9/17/2020 5:40:47 PM



#52
Tetrachloroethene
Concen: 163.473 ppbv m
RT: 11.23 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tgt Ion: 164 Resp: 27646349
Ion Ratio Lower Upper
164 100
166 114.5 100.9 151.3
129 123.0 75.3 112.9#
131 117.6 73.0 109.4#





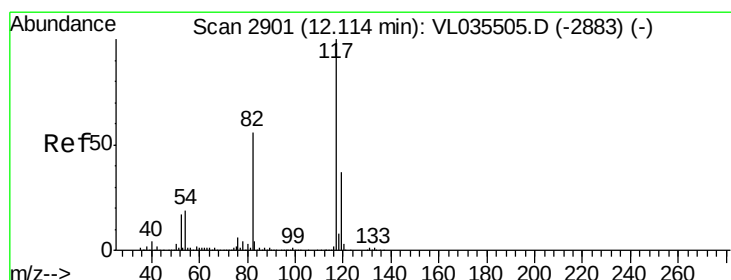
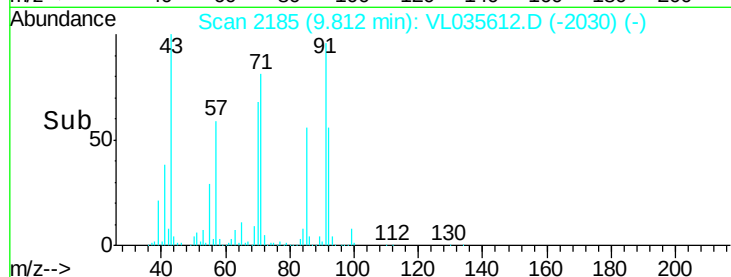
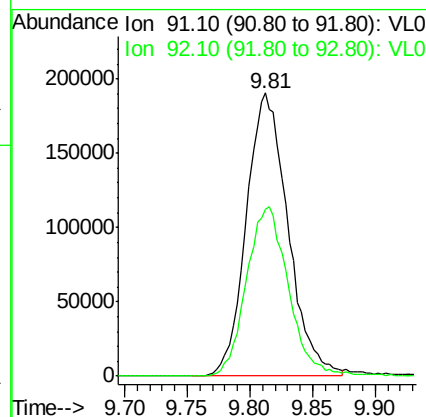
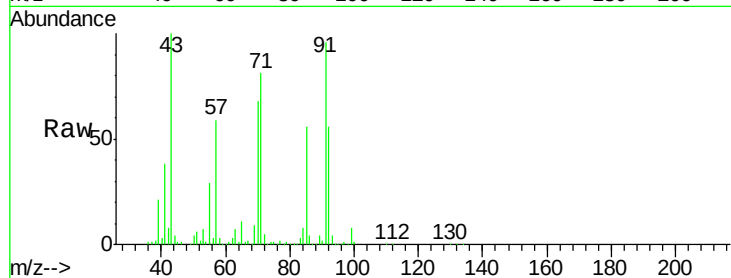
#53
Toluene
Concen: 1.208 ppbv
RT: 9.81 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Instrument :
MSVOA_L
ClientSampled :
SV-8

Tot Ion: 91 Resp: 439631
Ion Ratio Lower Upper
91 100
92 60.7 49.8 74.8

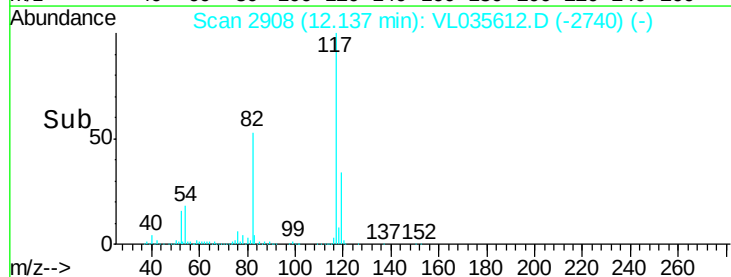
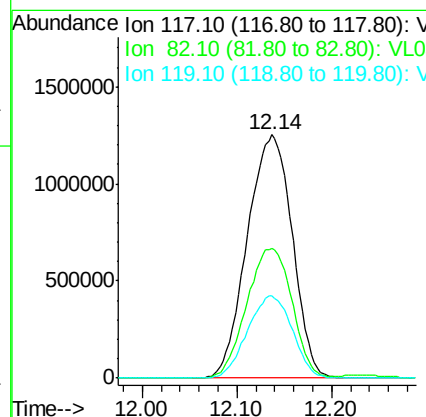
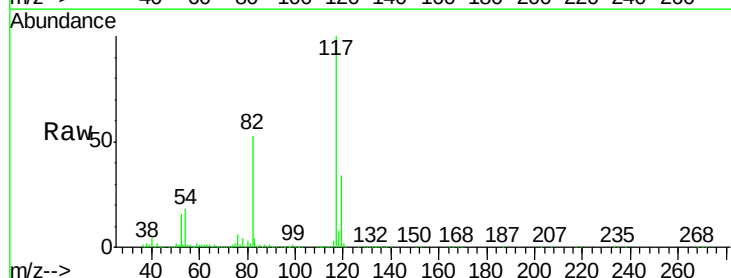
Manual Integrations
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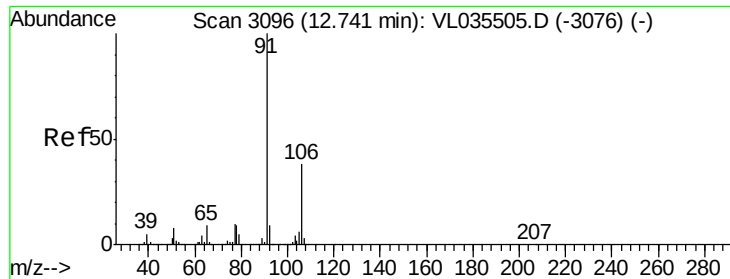
MMDadoda
9/17/2020 5:40:47 PM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. 0.04 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tgt Ion: 117 Resp: 4129263
Ion Ratio Lower Upper
117 100
82 53.8 41.6 62.4
119 33.7 29.3 43.9





#58

Ethyl Benzene

Concen: 0.249 ppbv m

RT: 12.75 min Scan# 3100

Delta R.T. 0.03 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

Instrument :

MSVOA_L

ClientSampled :

SV-8

Tot Ion: 91 Resp: 105967

Ion Ratio Lower Upper

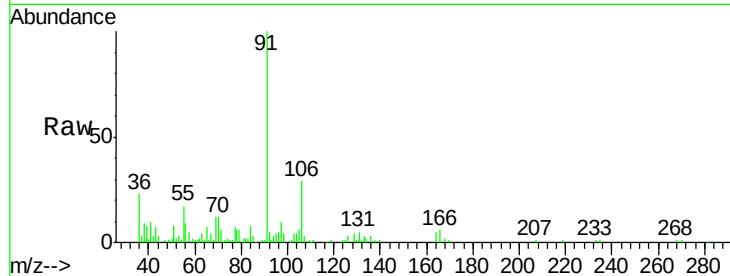
91 100

106 28.7 30.3 45.5#

Manual Integrations
APPROVED

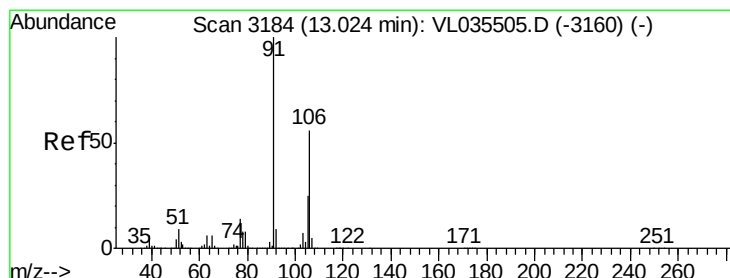
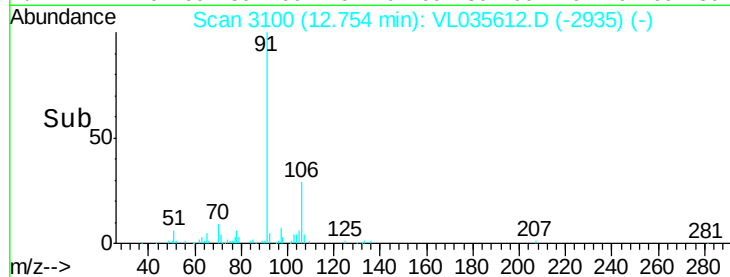
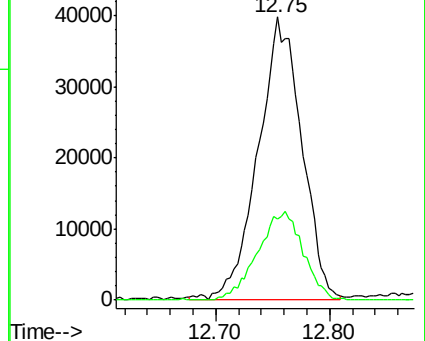
MMDadoda

9/17/2020 5:40:47 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.884 ppbv

RT: 13.01 min Scan# 3181

Delta R.T. 0.01 min

Lab File: VL035612.D

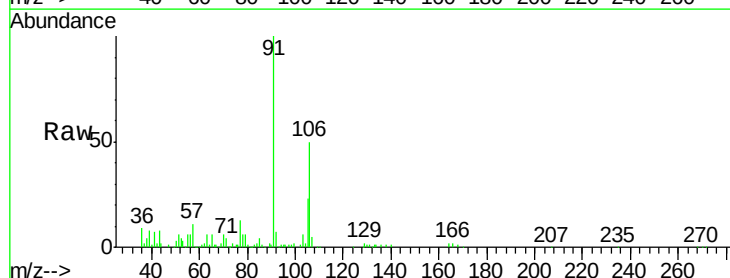
Acq: 14 Sep 2020 23:33

Tgt Ion: 91 Resp: 314540

Ion Ratio Lower Upper

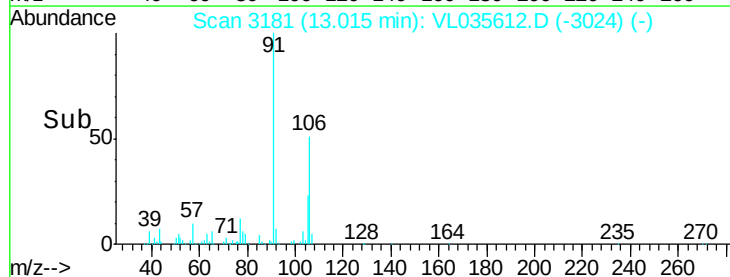
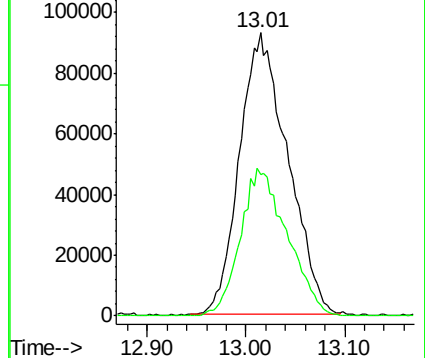
91 100

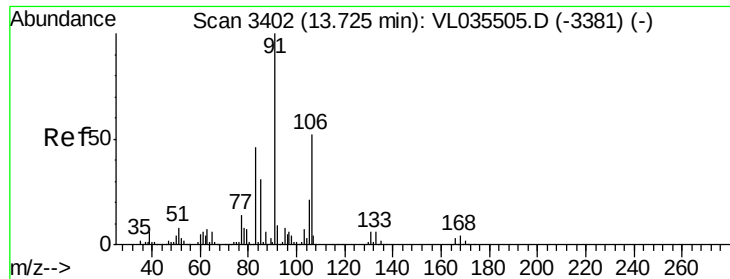
106 51.0 43.4 65.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





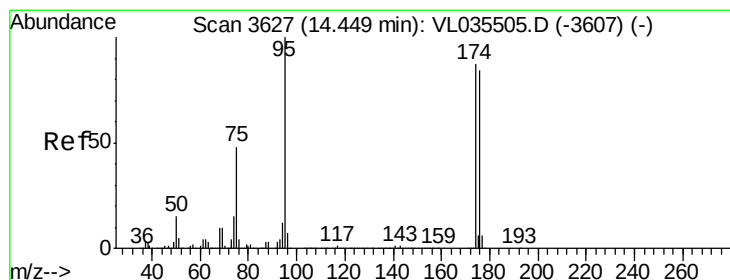
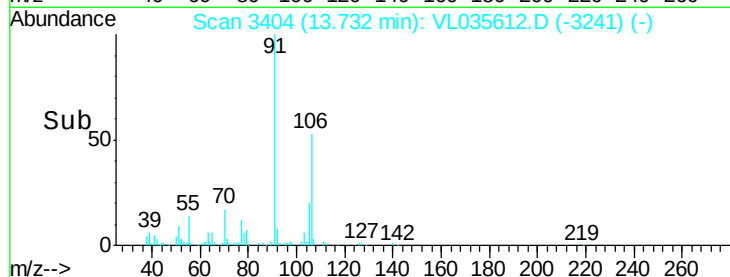
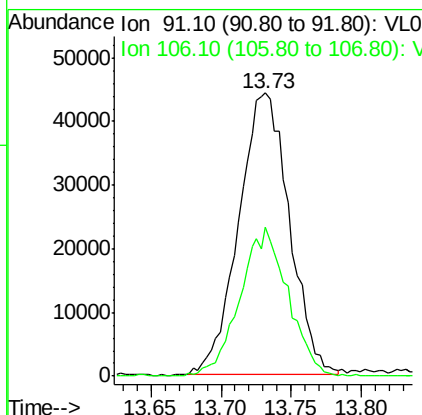
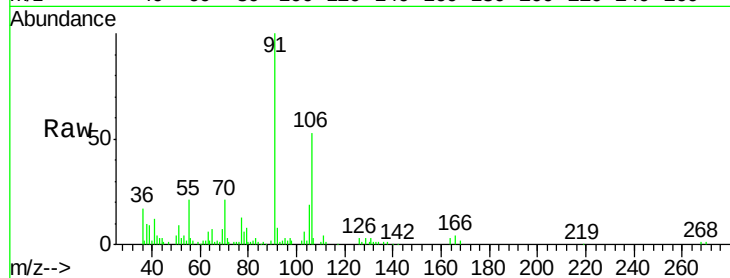
#60
o-Xylene
Concen: 0.308 ppbv
RT: 13.73 min Scan# 3404
Delta R.T. 0.03 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Instrument :
MSVOA_L
ClientSampled :
SV-8

Tot Ion: 91 Resp: 110283
Ion Ratio Lower Upper
91 100
106 50.2 25.8 77.4

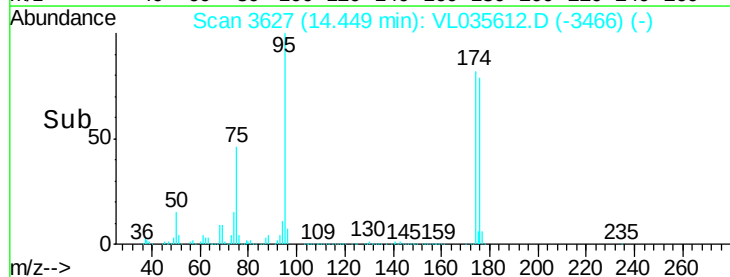
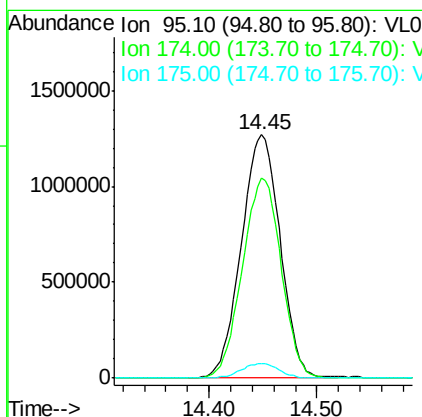
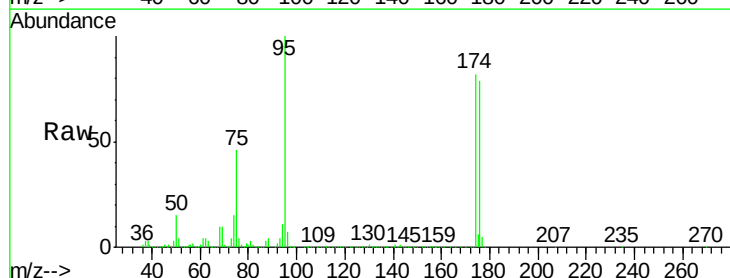
Manual Integrations
APPROVED

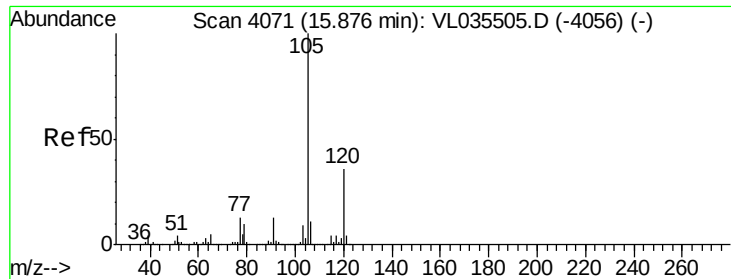
MMDadoda
9/17/2020 5:40:47 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.794 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. 0.02 min
Lab File: VL035612.D
Acq: 14 Sep 2020 23:33

Tgt Ion: 95 Resp: 3165179
Ion Ratio Lower Upper
95 100
174 82.5 69.6 104.4
175 5.9 5.1 7.7





#72

4-Ethyltoluene

Concen: 0.111 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. 0.01 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

Instrument :

MSVOA_L

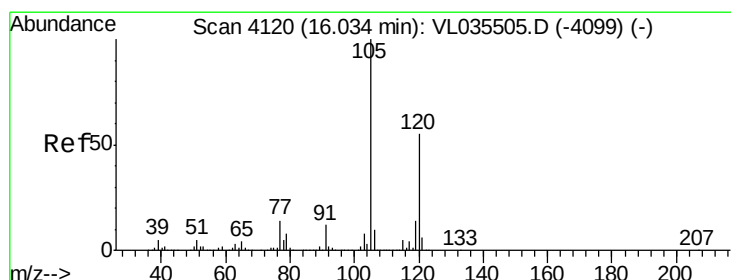
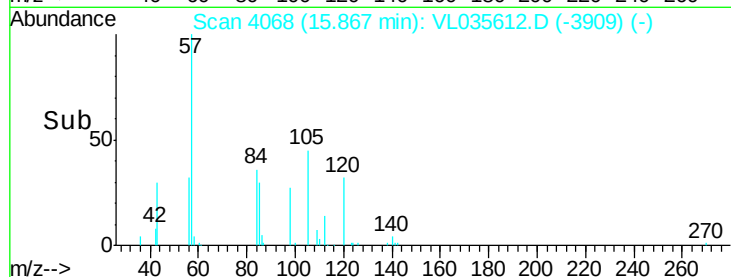
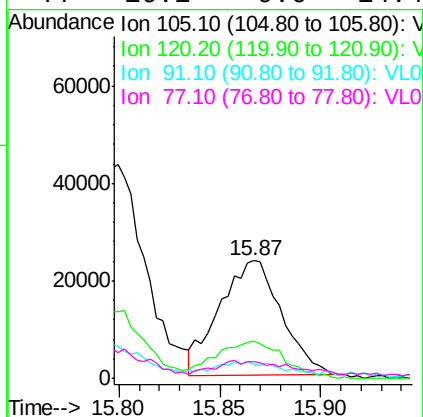
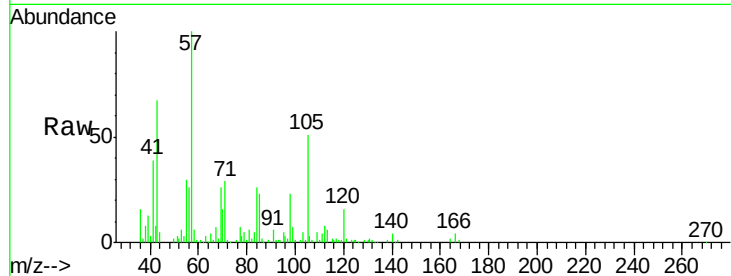
ClientSampled :

SV-8

Tot Ion:	105	Resp:	50780
Ion Ratio	Lower	Upper	
105	100		
120	35.6	27.4	41.2
91	17.0	9.7	14.5#
77	16.1	9.6	14.4#

Manual Integrations
APPROVED

MMDadoda
9/17/2020 5:40:47 PM



#73

1,3,5-Trimethylbenzene

Concen: 0.081 ppbv m

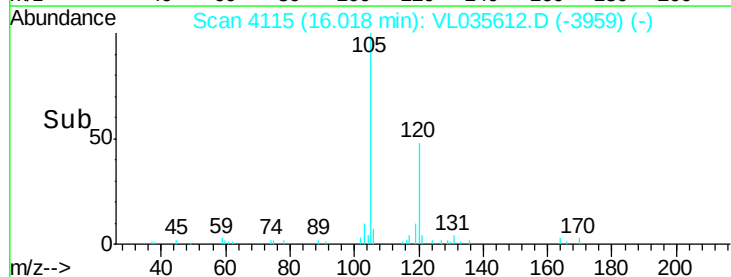
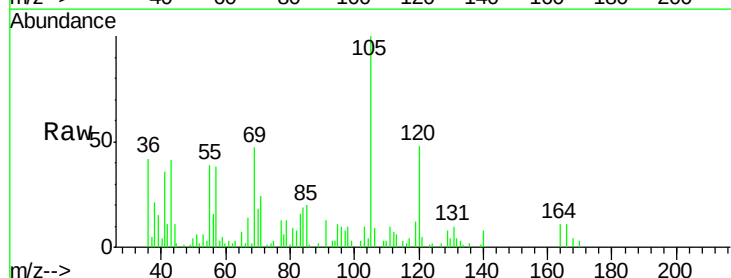
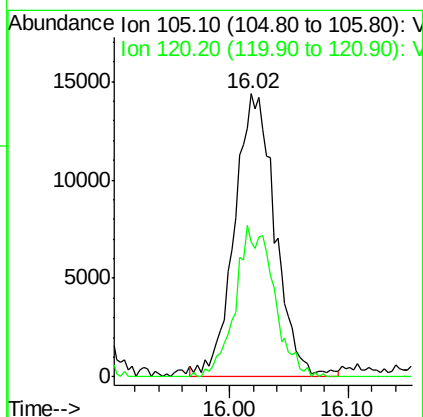
RT: 16.02 min Scan# 4115

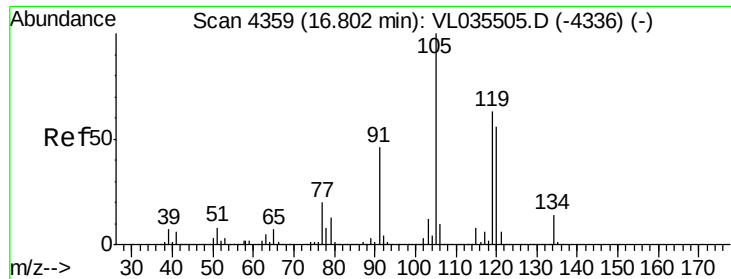
Delta R.T. 0.00 min

Lab File: VL035612.D

Acq: 14 Sep 2020 23:33

Tgt Ion:	105	Resp:	34307
Ion Ratio	Lower	Upper	
105	100		
120	47.6	44.2	66.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.273 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. 0.00 min
 Lab File: VL035612.D
 Acq: 14 Sep 2020 23:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	49.2	44.4	66.6
91	11.9	37.1	55.7#
77	10.8	16.0	24.0#

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 5:40:47 PM

