

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035600.D
 Acq On : 14 Sep 2020 15:59
 Operator : SY/AP
 Sample : L3983-07DUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-10DUP

Manual Integrations
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 9/17/2020 5:40:05 PM

Quant Time: Sep 15 07:06:20 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	5.67	49	1143057	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4746637	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4751887	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3632557	10.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	36311m	0.287	ppbv	
9) Propene	3.01	41	199436	4.092	ppbv #	78
10) Heptane	8.13	43	354571	2.709	ppbv	99
13) Ethanol	3.60	45	28371	2.348	ppbv	96
15) Acetone	3.84	43	5842915	46.347	ppbv	91
17) tert-Butyl alcohol	4.30	59	48459	0.316	ppbv #	72
19) Isopropyl Alcohol	3.97	45	28070	0.373	ppbv #	93
20) Methylene Chloride	4.34	84	438867	4.674	ppbv	94
22) trans-1,2-Dichloroethene	4.88	96	16663	0.163	ppbv	90
26) Hexane	5.68	57	721225	5.715	ppbv #	48
27) Carbon Disulfide	4.55	76	93971	0.519	ppbv	97
29) Chloroform	5.75	83	184429	0.717	ppbv	92
30) Cyclohexane	7.13	84	19545m	0.145	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	2510205	19.389	ppbv	99
34) 2-Butanone	5.24	43	567864	4.031	ppbv	100
36) Benzene	6.89	78	85602	0.279	ppbv	94
38) Trichloroethene	7.84	130	6771914	37.943	ppbv #	92
51) 2-Hexanone	10.15	43	223955	1.338	ppbv #	98
52) Tetrachloroethene	11.23	164	12472767m	69.487	ppbv	
53) Toluene	9.81	91	2168888	5.613	ppbv	99
58) Ethyl Benzene	12.73	91	203681	0.416	ppbv	89
59) m/p-Xylene	12.99	91	636438	1.554	ppbv	97
60) o-Xylene	13.71	91	235477	0.571	ppbv	97
64) n-propylbenzene	15.58	120	24300m	0.120	ppbv	
72) 4-Ethyltoluene	15.86	105	124630	0.238	ppbv #	85
73) 1,3,5-Trimethylbenzene	16.02	105	78855	0.163	ppbv	94
74) 1,2,4-Trimethylbenzene	16.79	105	315342m	0.592	ppbv	

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

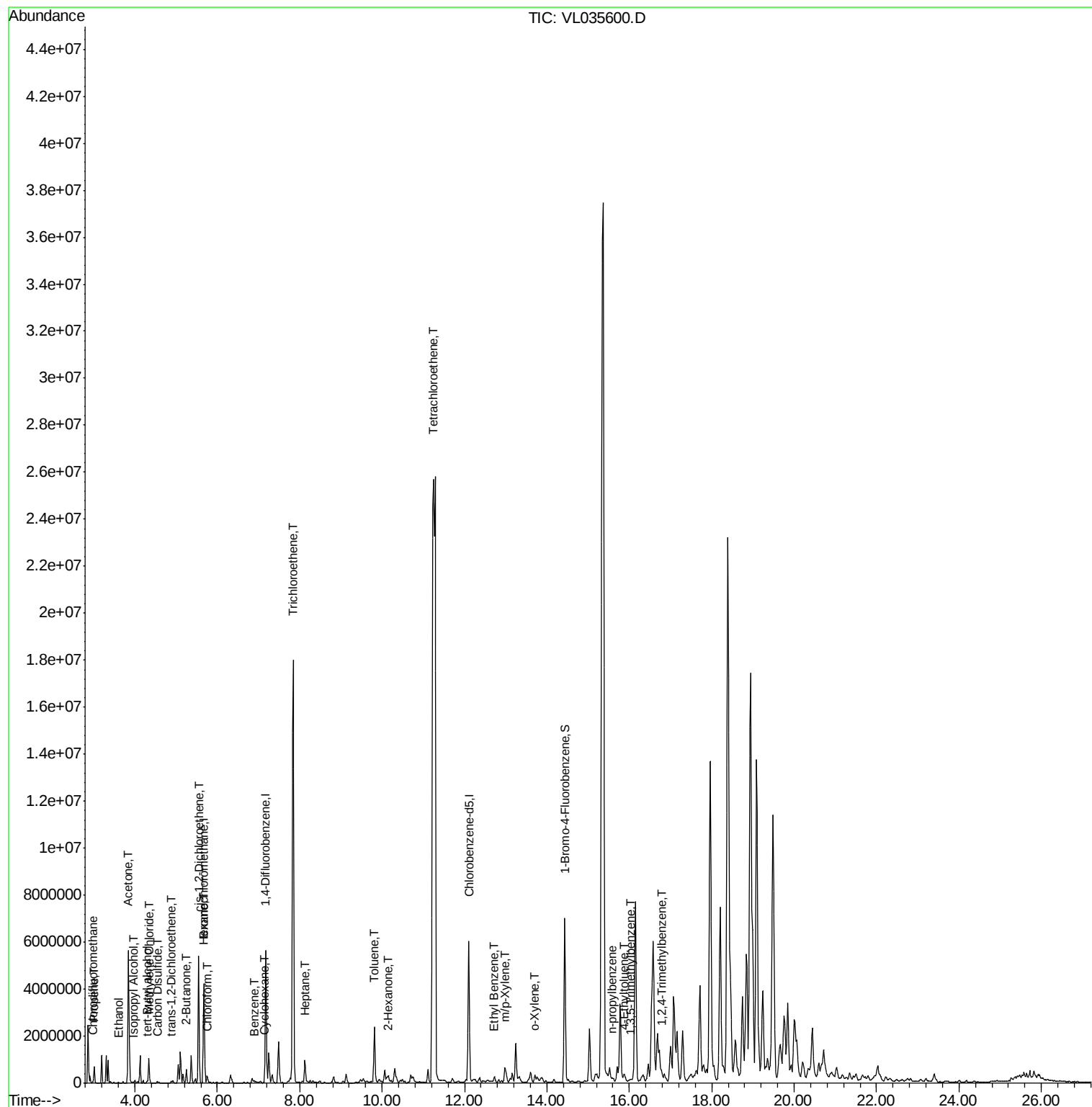
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
Data File : VL035600.D
Acq On : 14 Sep 2020 15:59
Operator : SY/AP
Sample : L3983-07DUP 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

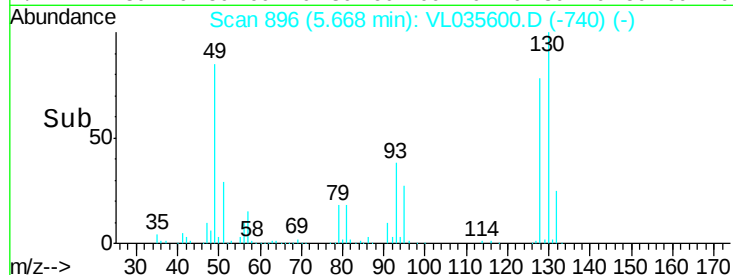
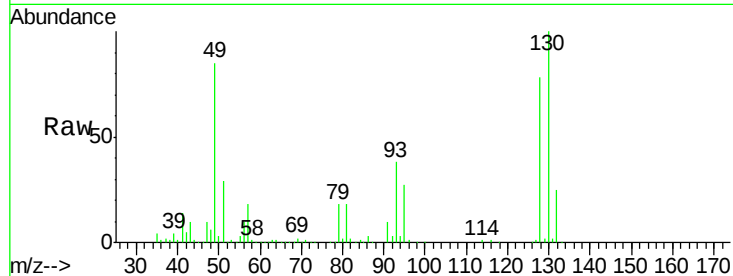
Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Manual Integrations
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Quant Time: Sep 15 07:06:20 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





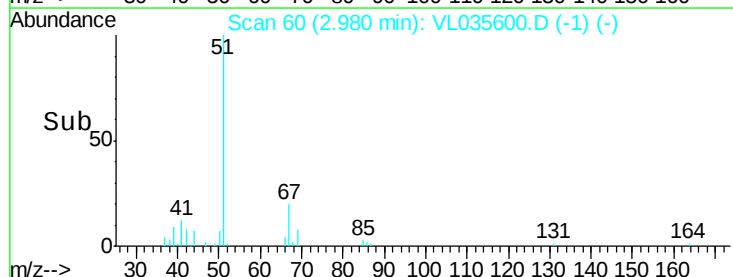
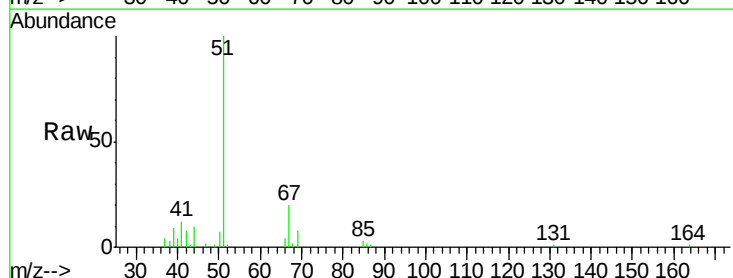
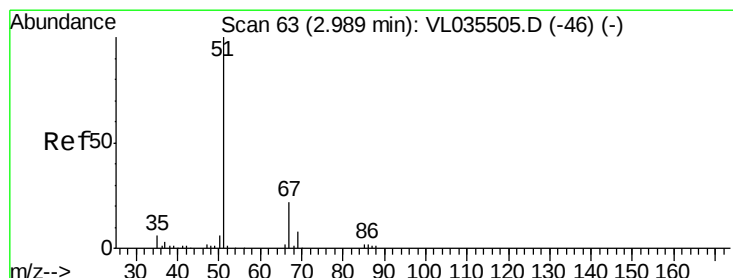
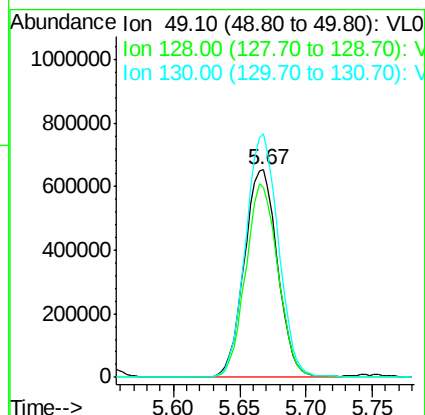
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tot Ion: 49 Resp: 1143057
Ion Ratio Lower Upper
49 100
128 90.9 50.0 150.1
130 116.4 64.4 193.2

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

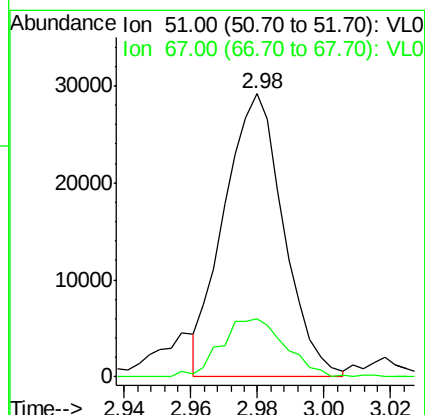
Manual Integrations
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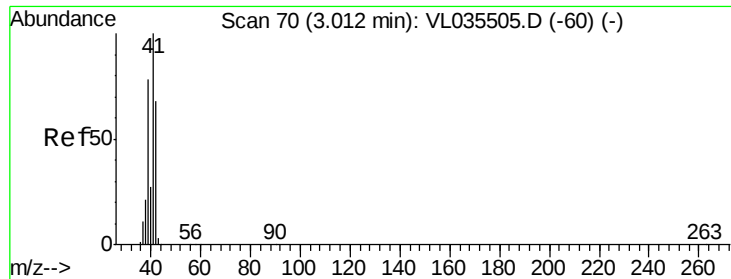
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#3
Chlorodifluoromethane
Concen: 0.287 ppbv m
RT: 2.98 min Scan# 60
Delta R.T. 0.01 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion: 51 Resp: 36311
Ion Ratio Lower Upper
51 100
67 22.3 17.8 26.8





#9

Propene

Concen: 4.092 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035600.D

Acq: 14 Sep 2020 15:59

Instrument :

MSVOA_L

ClientSampled :

SV-10DUP

Tot Ion: 41 Resp: 199436

Ion Ratio Lower Upper

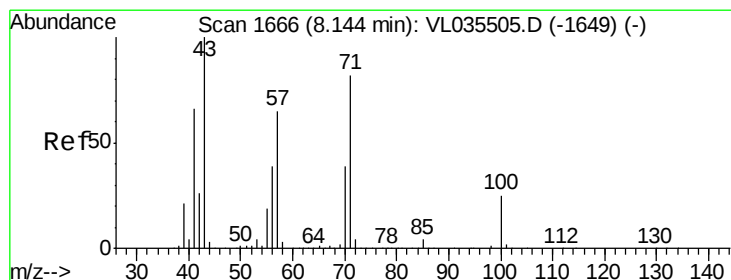
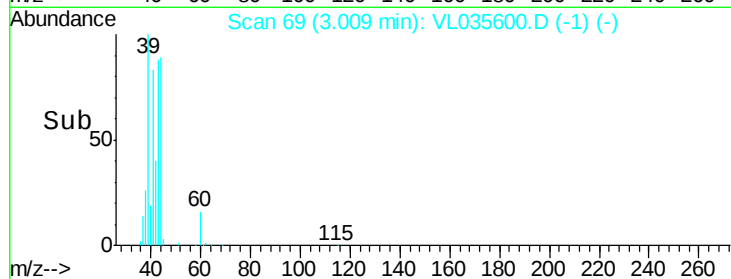
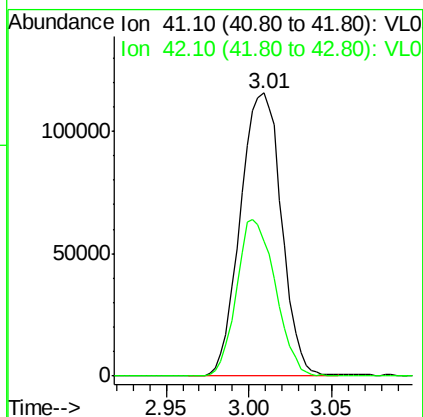
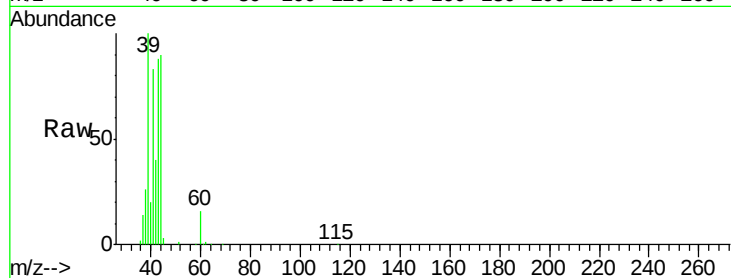
41 100

42 52.6 56.3 84.5#

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#10

Heptane

Concen: 2.709 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035600.D

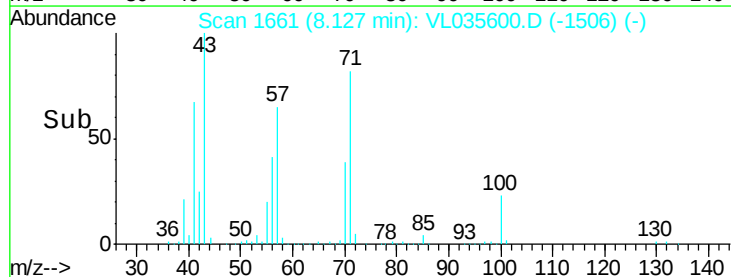
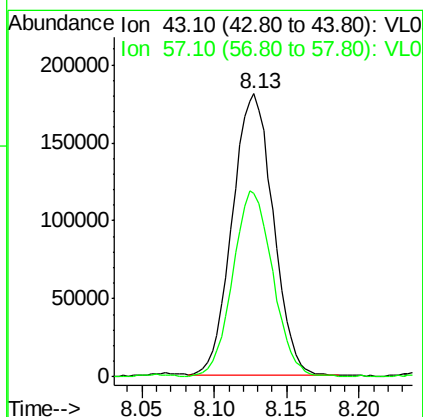
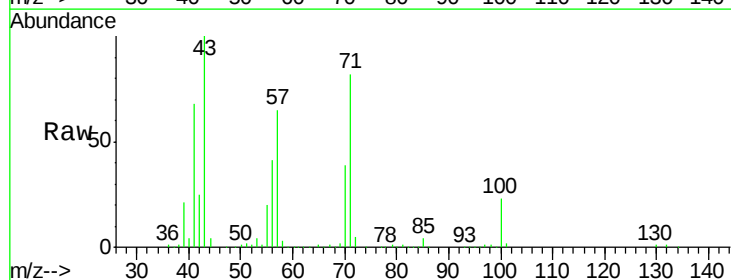
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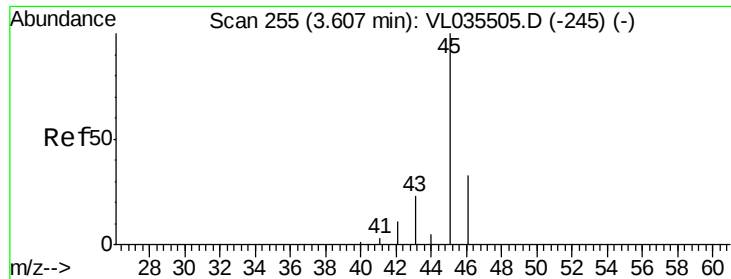
Tgt Ion: 43 Resp: 354571

Ion Ratio Lower Upper

43 100

57 65.1 51.4 77.0





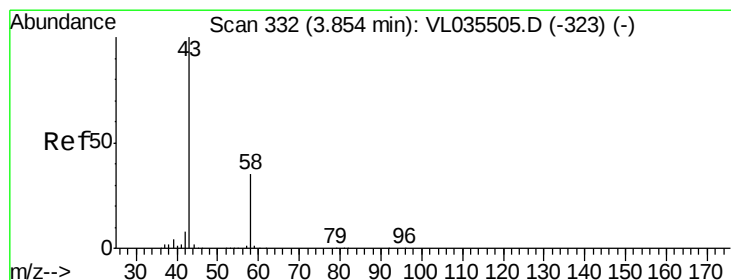
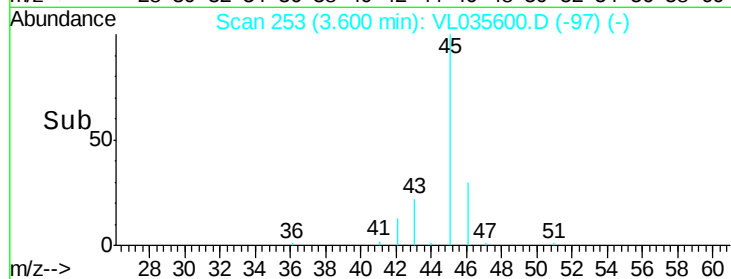
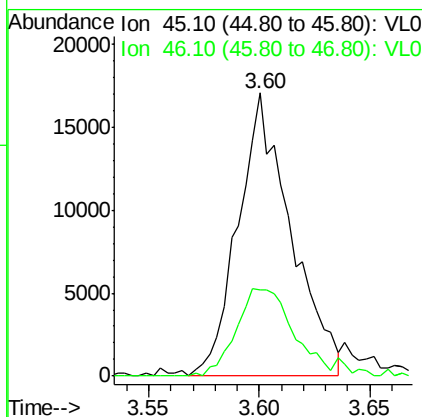
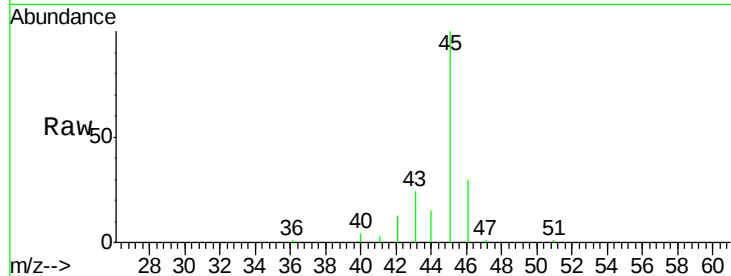
#13
Ethanol
Concen: 2.348 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.3	15.2	60.6

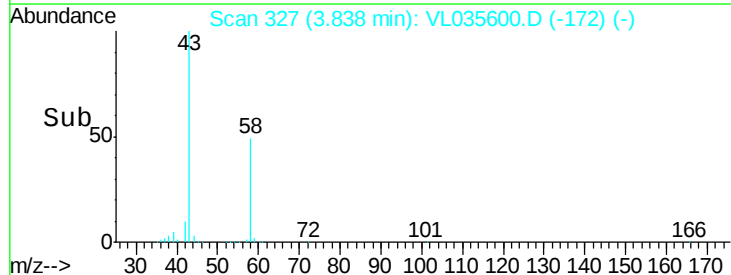
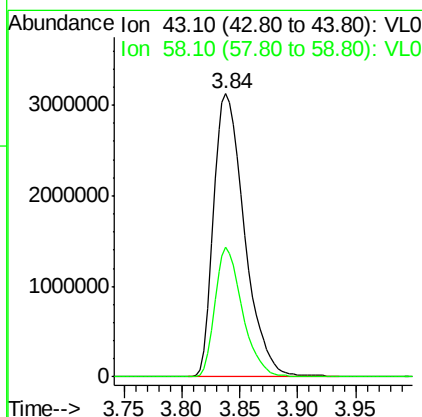
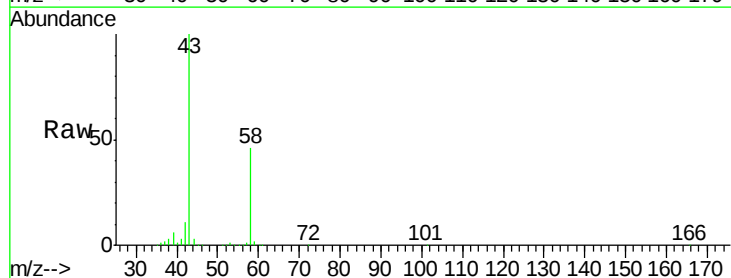
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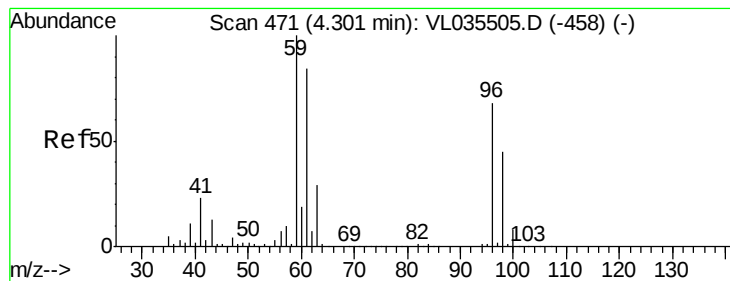
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#15
Acetone
Concen: 46.347 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.0	28.4	42.6





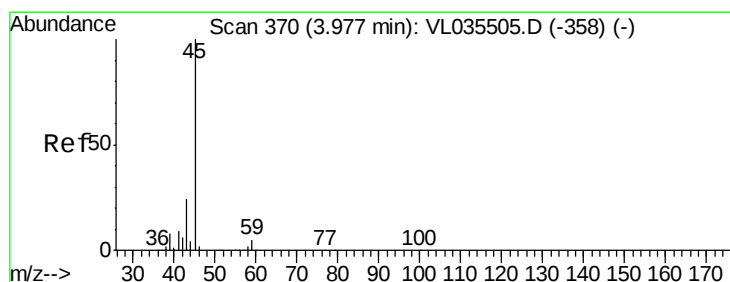
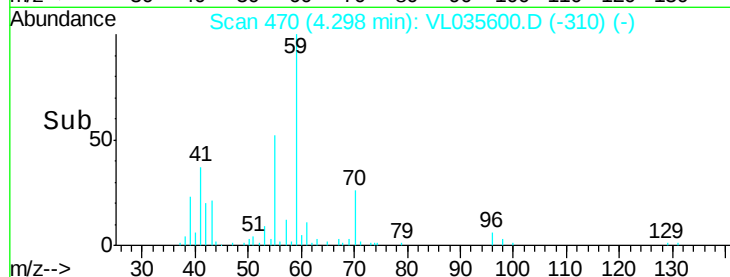
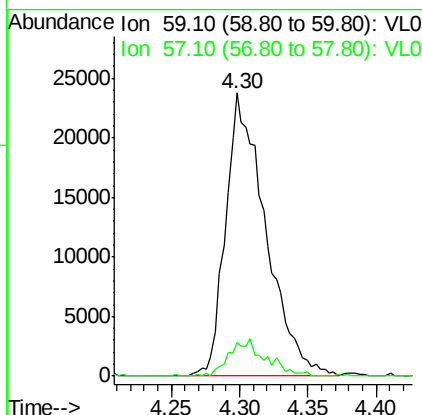
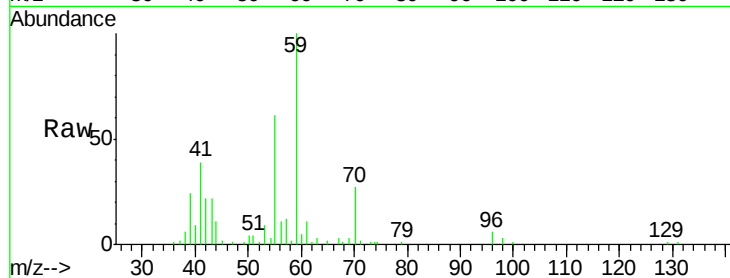
#17
 tert-Butyl alcohol
 Concen: 0.316 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.02 min
 Lab File: VL035600.D
 Acq: 14 Sep 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleID :
 SV-10DUP

Tot Ion: 59 Resp: 48459
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

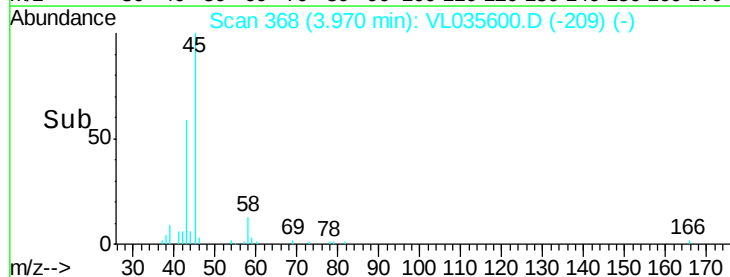
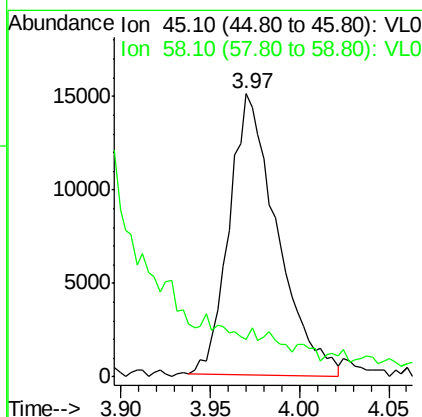
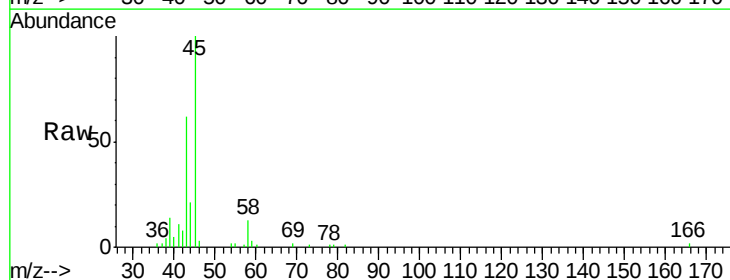
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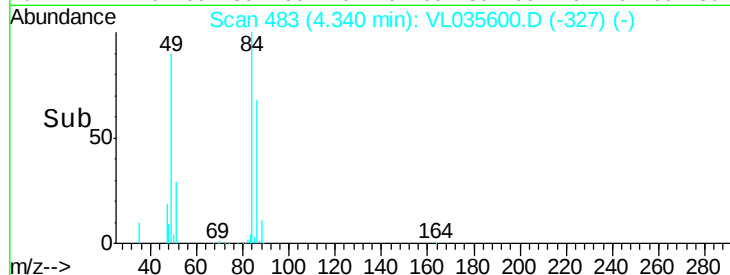
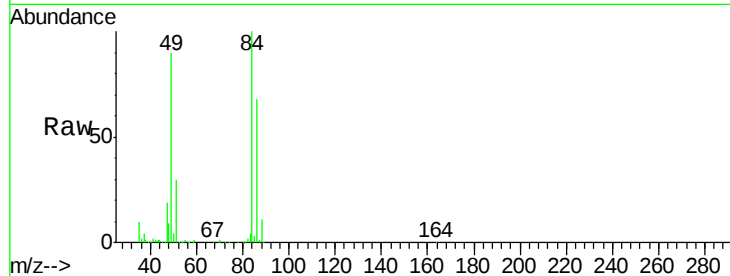
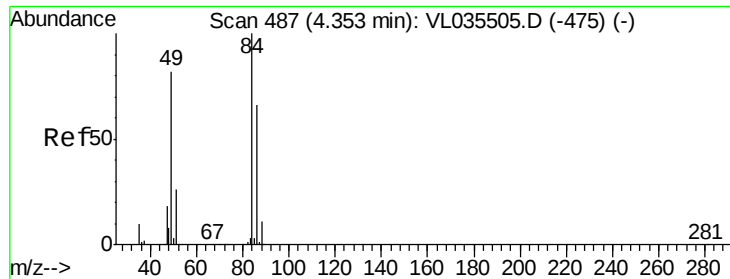
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#19
 Isopropyl Alcohol
 Concen: 0.373 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL035600.D
 Acq: 14 Sep 2020 15:59

Tgt Ion: 45 Resp: 28070
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.0 3.0#





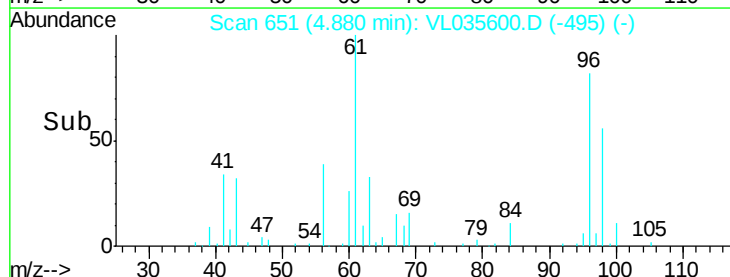
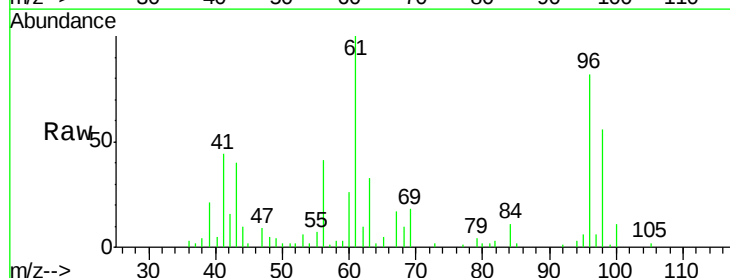
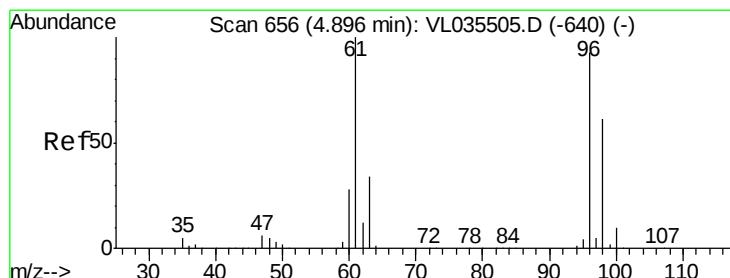
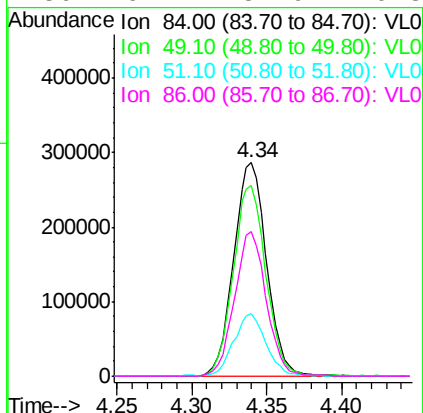
#20
Methvlene Chloride
Concen: 4.674 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tot Ion	84	Resp	438867
Ion Ratio	Lower	Upper	
84	100		
49	89.4	65.4	98.0
51	29.3	21.5	32.3
86	67.7	52.9	79.3

Instrument :
MSVOA_L
ClientSampled :
SV-10DUP

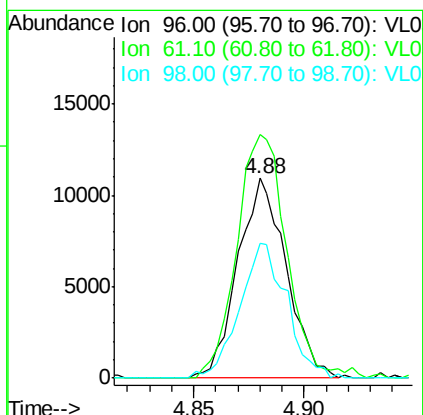
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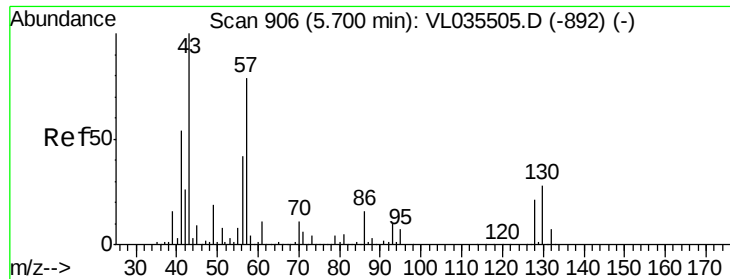
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#22
trans-1,2-Dichloroethene
Concen: 0.163 ppbv
RT: 4.88 min Scan# 651
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion	96	Resp	16663
Ion Ratio	Lower	Upper	
96	100		
61	121.8	86.0	129.0
98	67.7	52.3	78.5





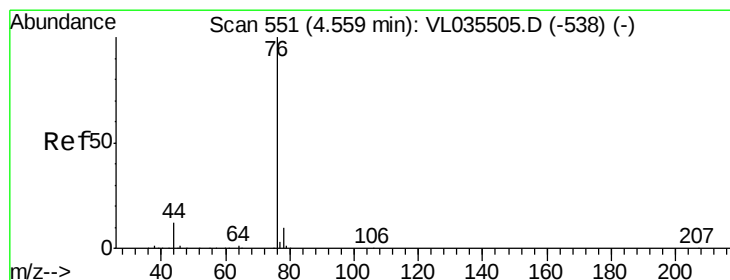
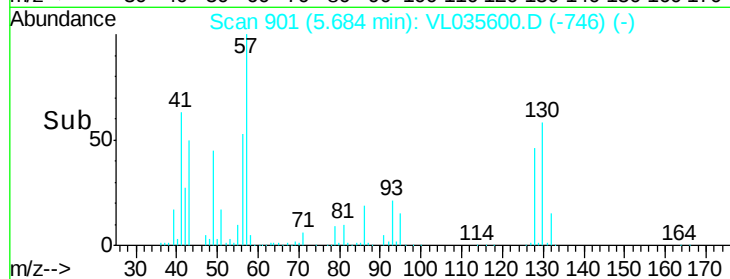
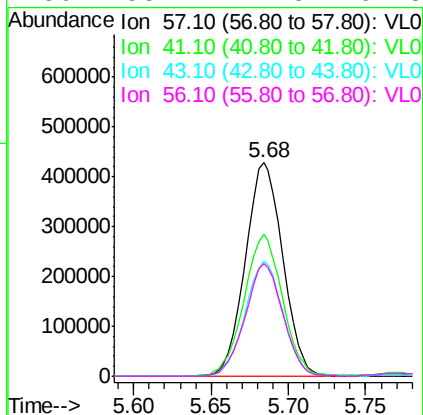
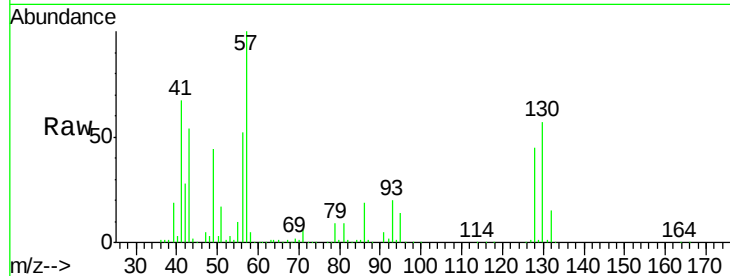
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Hexane
Concen: 5.715 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		721225		
41	68.6	55.9	83.9		
43	54.3	141.8	212.8#		
56	53.2	41.8	62.8		

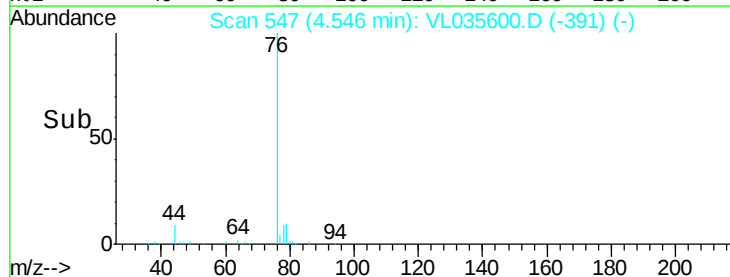
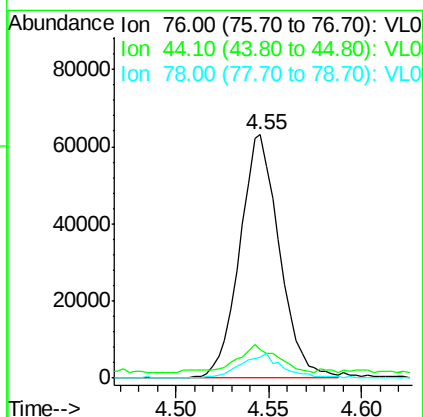
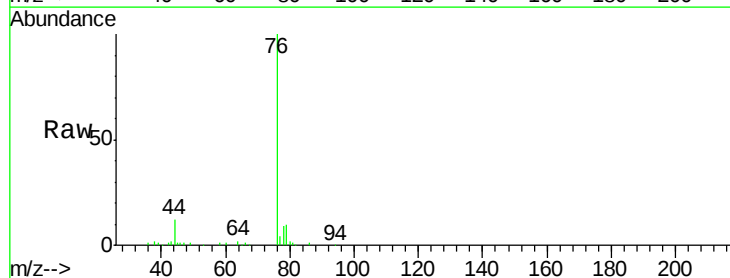
Manual Integrations
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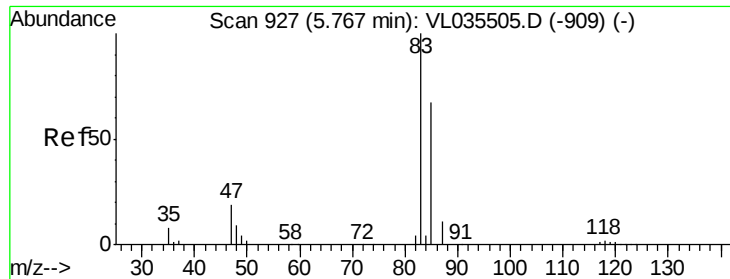
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#27
Carbon Disulfide
Concen: 0.519 ppbv
RT: 4.55 min Scan# 547
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
76	100		93971		
44	12.3	9.3	13.9		
78	11.0	7.8	11.6		





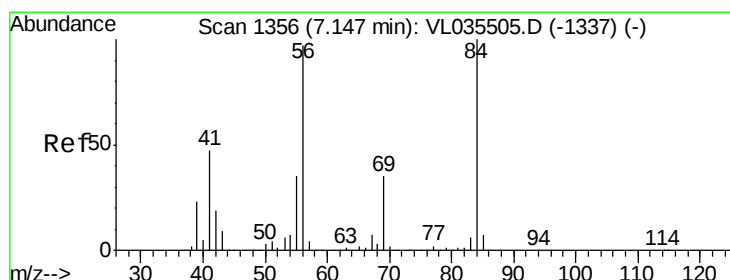
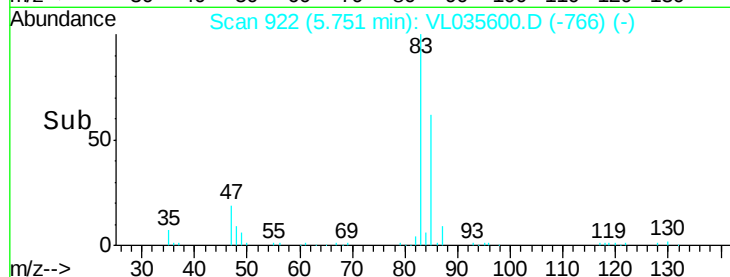
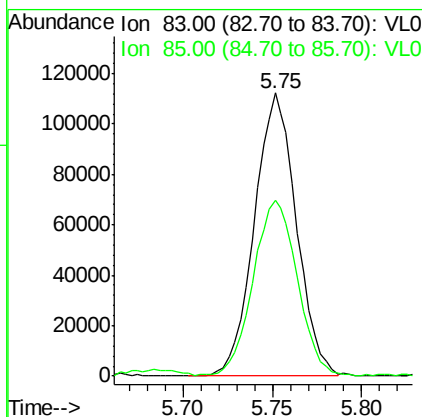
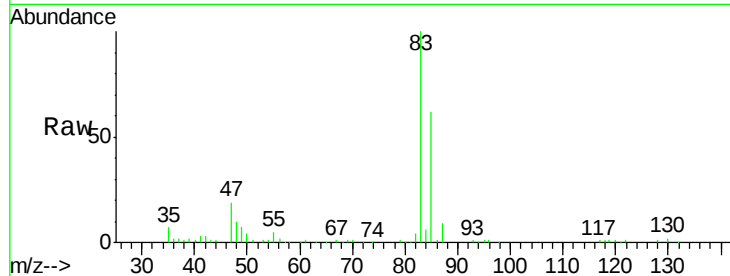
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Chloroform
Concen: 0.717 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Tot Ion	83	Resp	184429
Ion Ratio	100	Lower	Upper
85	60.9	53.9	80.9

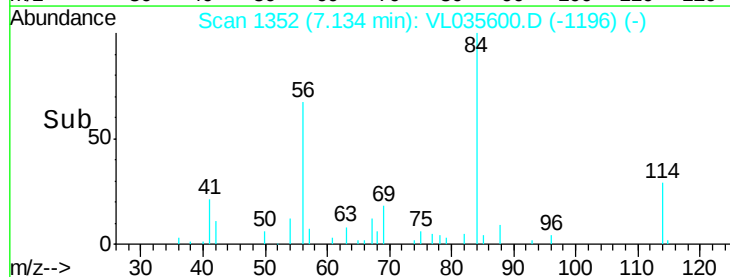
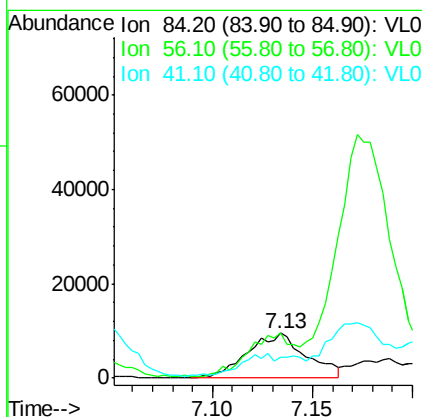
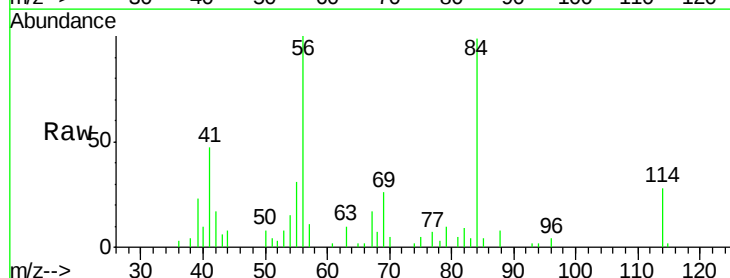
Manual Integrations
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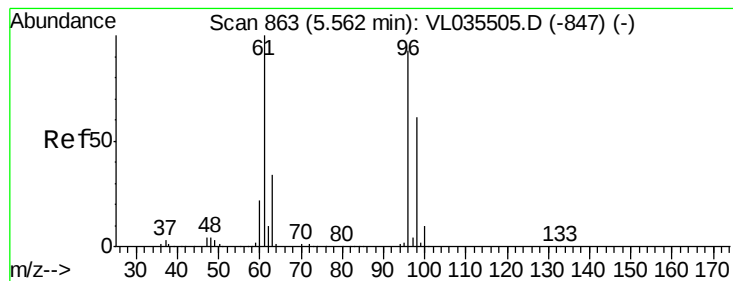
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#30
Cyclohexane
Concen: 0.145 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion	84	Resp	19545
Ion Ratio	100	Lower	Upper
56	0.0	80.1	120.1#
41	0.0	38.1	57.1#





#31

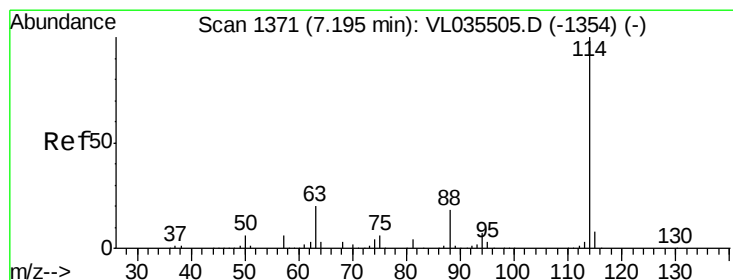
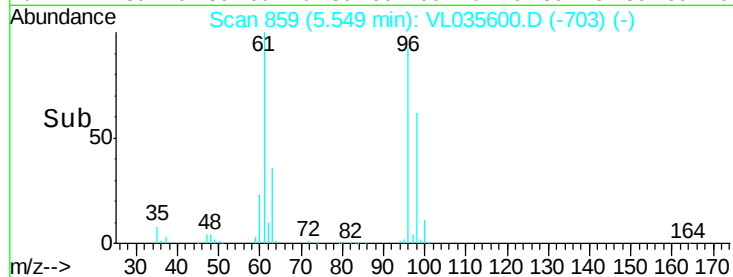
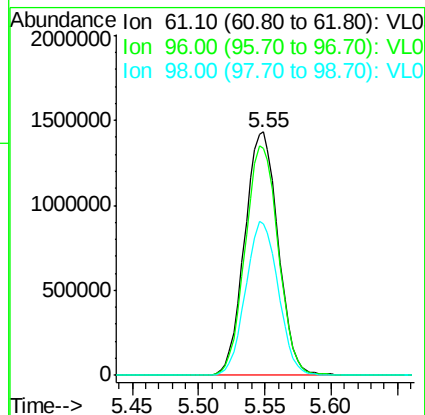
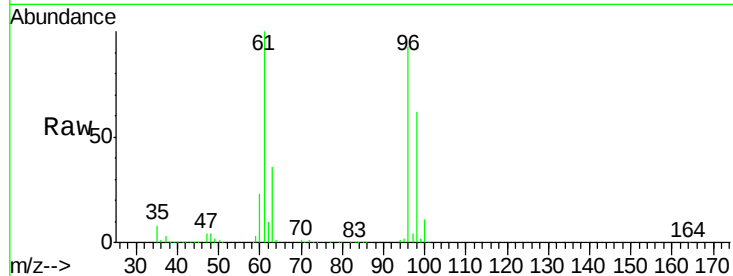
cis-1,2-Dichloroethene
Concen: 19.389 ppbv
RT: 5.55 min Scan# 859
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Tot Ion	Ratio	Lower	Upper
61	100		
96	93.2	74.4	111.6
98	62.4	49.2	73.8

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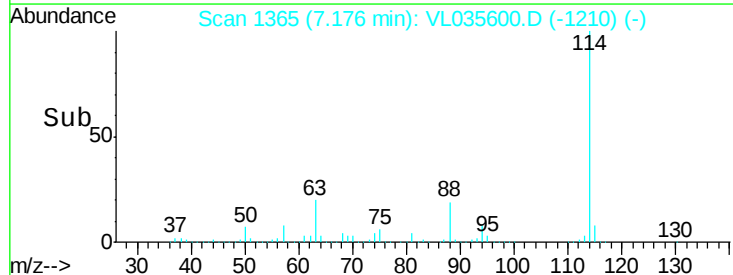
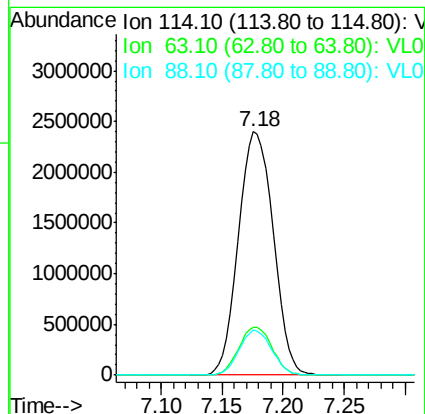
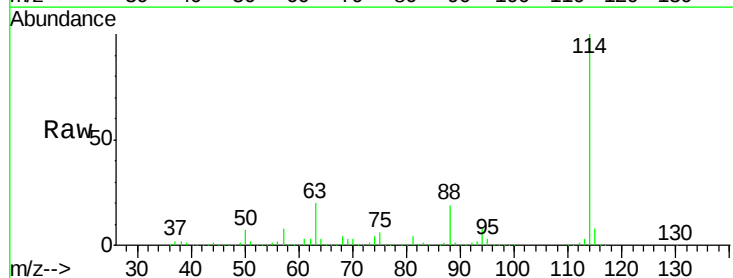
MMDadoda
9/17/2020 5:40:05 PM

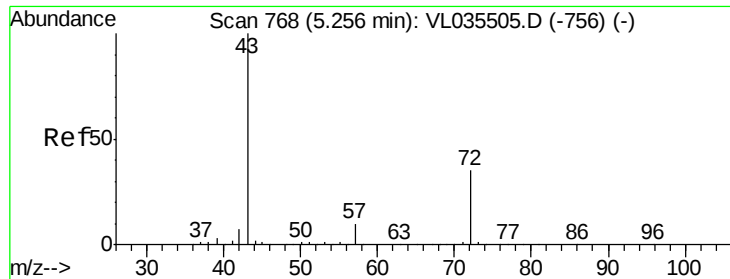


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.0	14.7	22.1
88	17.4	13.4	20.2





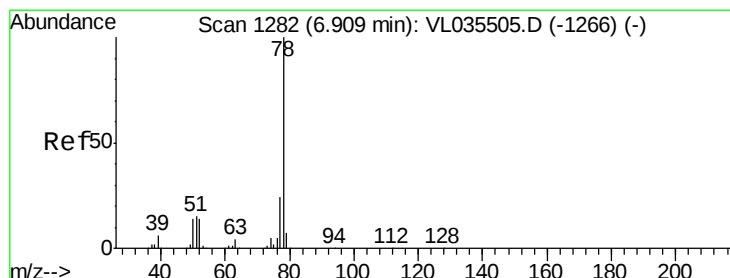
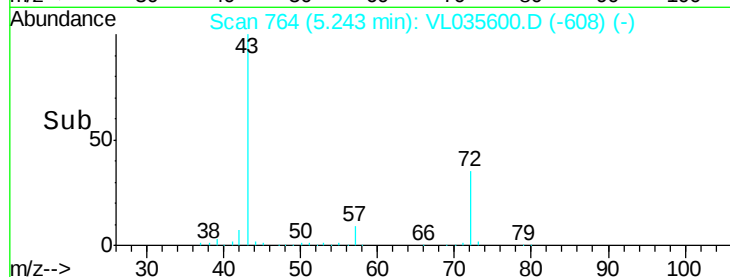
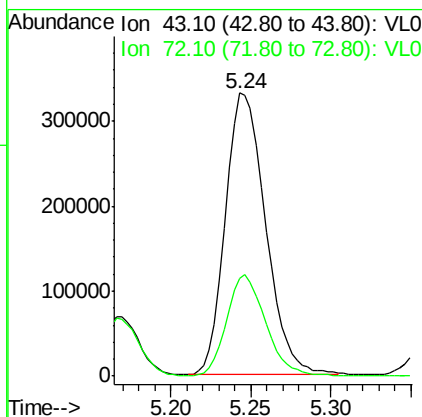
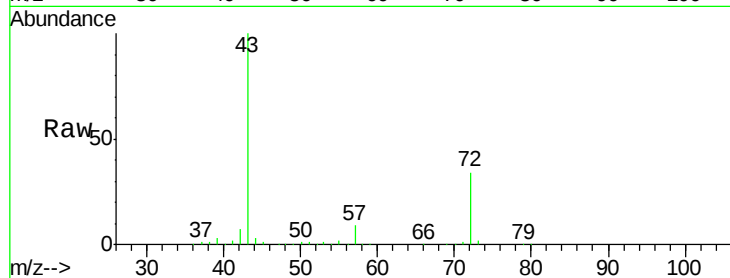
#34
2-Butanone
Concen: 4.031 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Tot Ion	Ratio	Lower	Upper
43	100		
72	34.8	27.7	41.5

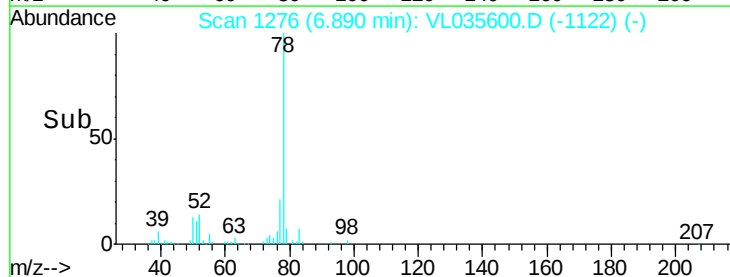
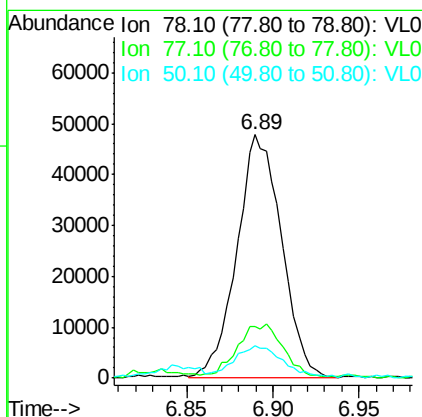
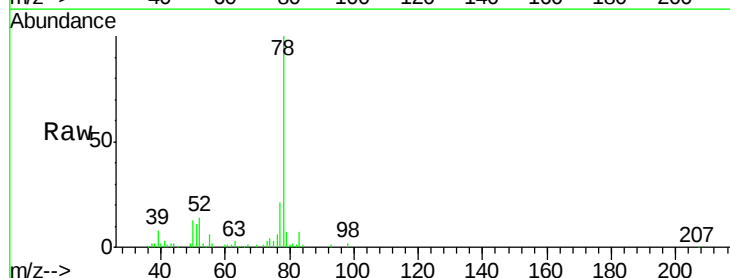
Manual Integrations
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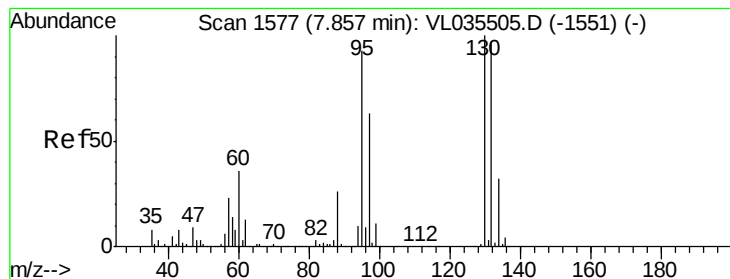
MMDadoda
9/17/2020 5:40:05 PM



#36
Benzene
Concen: 0.279 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.5	19.3	28.9
50	12.7	11.0	16.6





#38

Trichloroethene

Concen: 37.943 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VL035600.D

Acq: 14 Sep 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

SV-10DUP

Tot Ion:130 Resp: 6771914

Ion Ratio Lower Upper

130 100

95 102.5 74.6 112.0

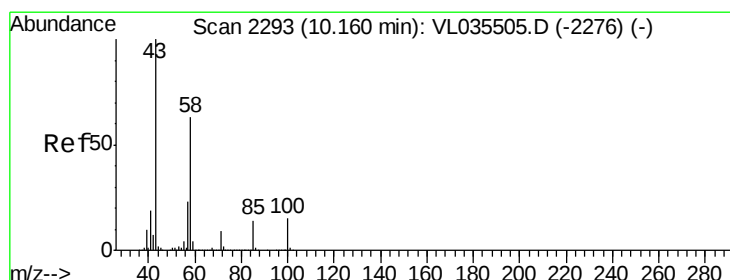
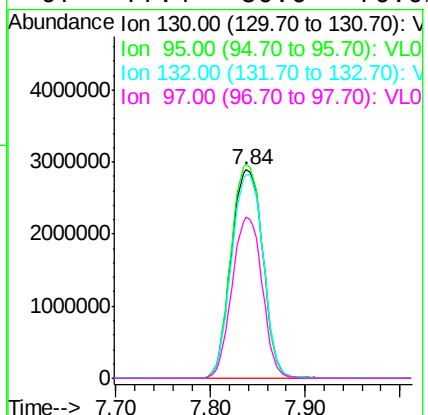
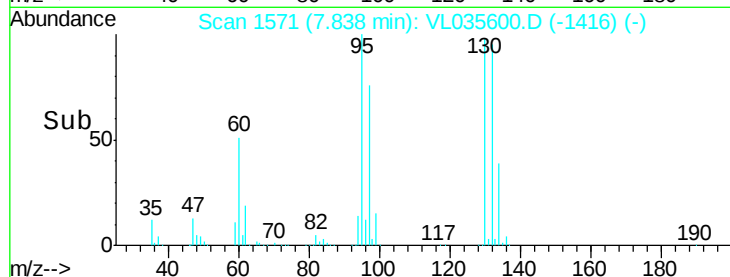
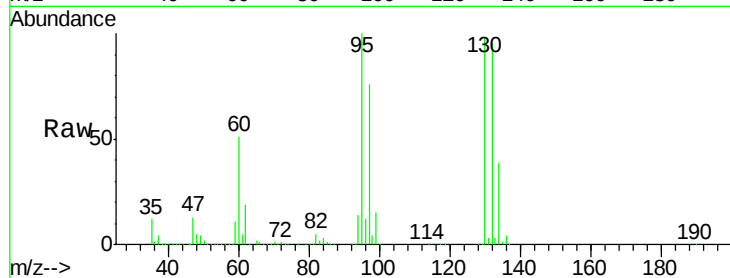
132 97.6 77.6 116.4

97 77.4 50.6 76.0#

Manual Integrations
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#51

2-Hexanone

Concen: 1.338 ppbv

RT: 10.15 min Scan# 2291

Delta R.T. 0.02 min

Lab File: VL035600.D

Acq: 14 Sep 2020 15:59

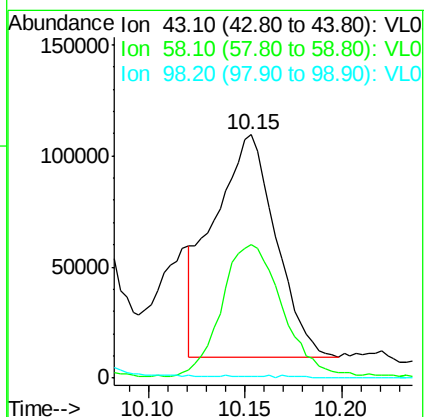
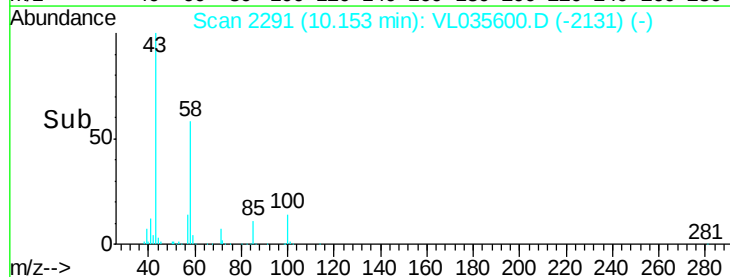
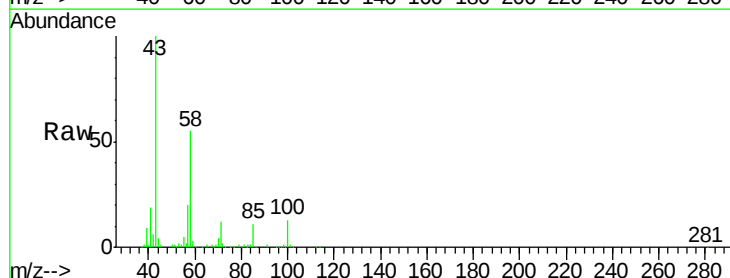
Tgt Ion: 43 Resp: 223955

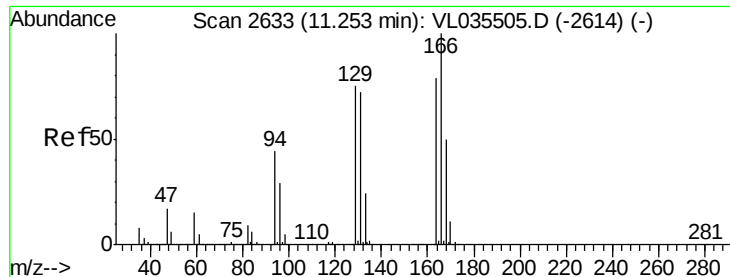
Ion Ratio Lower Upper

43 100

58 61.0 50.2 75.4

98 0.0 0.4 0.6#





#52

Tetrachloroethene

Concen: 69.487 ppbv m

RT: 11.23 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL035600.D

Acq: 14 Sep 2020 15:59

Instrument :

MSVOA_L

ClientSampleId :

SV-10DUP

Tot Ion:164 Resp:12472767

Ion Ratio Lower Upper

164 100

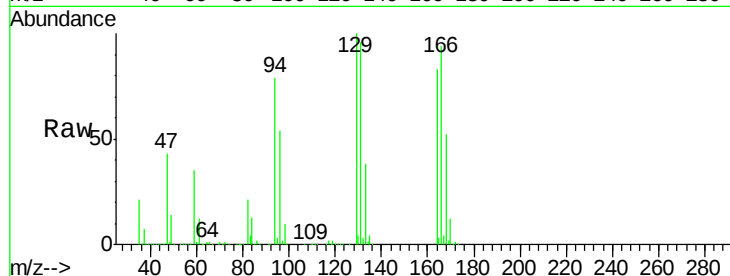
166 114.1 100.9 151.3

129 121.0 75.3 112.9#

131 116.0 73.0 109.4#

Manual Integrations
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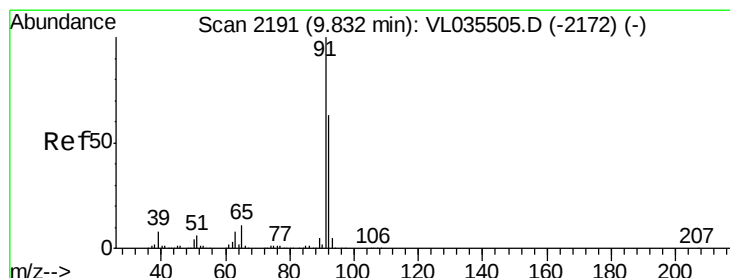
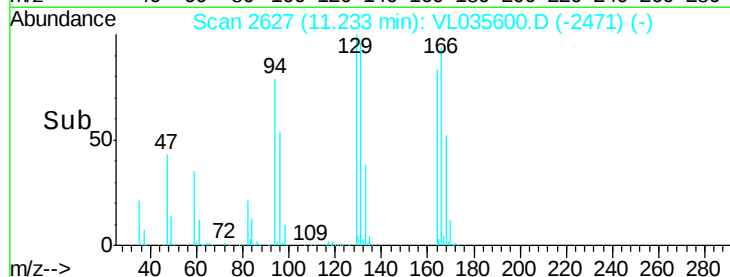
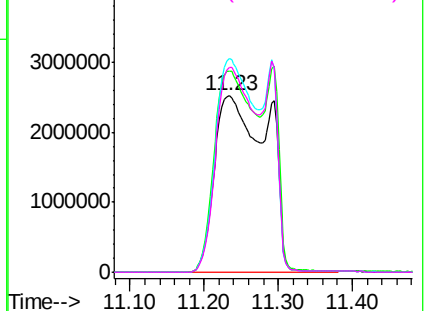


Abundance Ion 163.90 (163.60 to 164.60): V

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: 5.613 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL035600.D

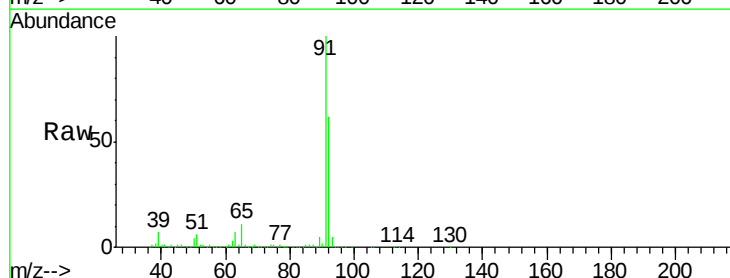
Acq: 14 Sep 2020 15:59

Tgt Ion: 91 Resp: 2168888

Ion Ratio Lower Upper

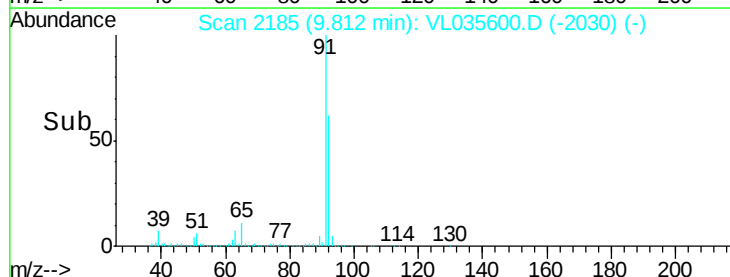
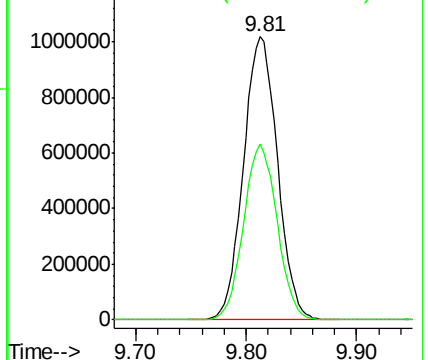
91 100

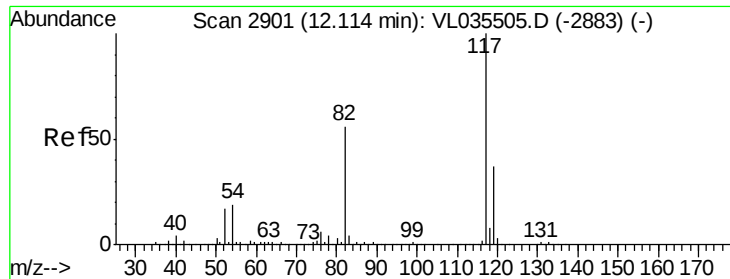
92 61.3 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





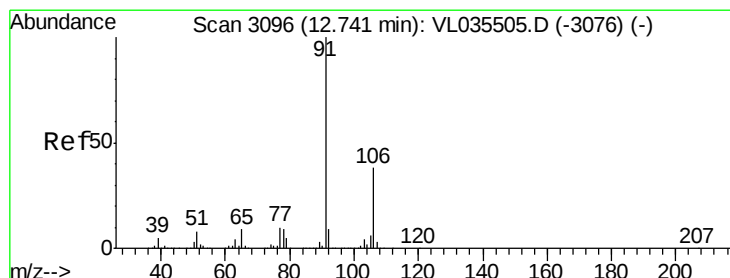
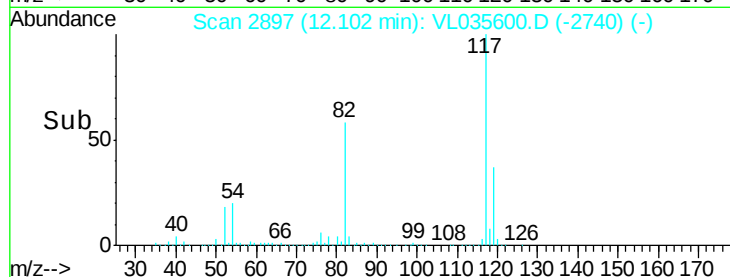
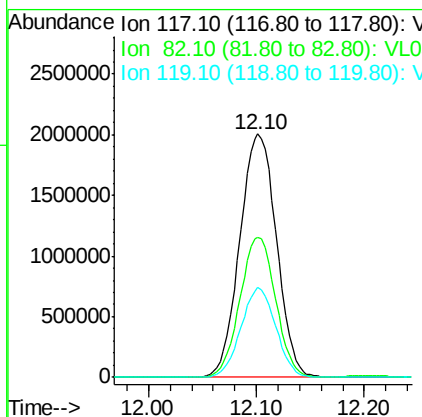
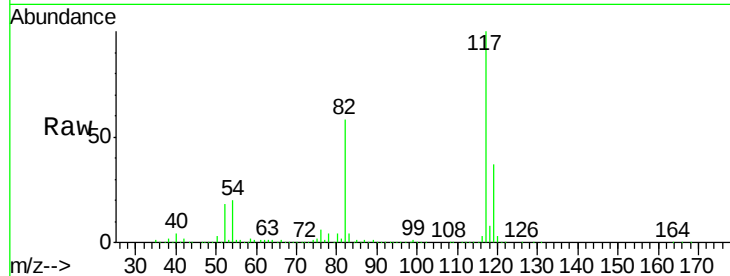
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.01 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Tot Ion:117 Resp: 4751887
Ion Ratio Lower Upper
117 100
82 56.0 41.6 62.4
119 35.0 29.3 43.9

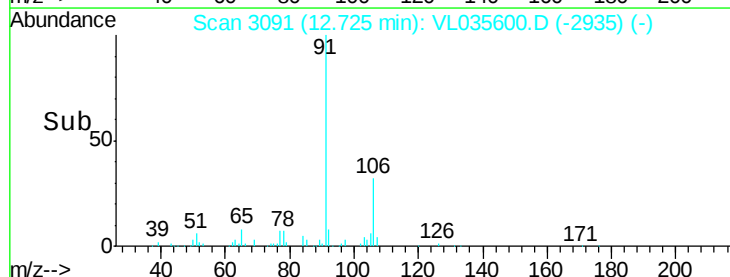
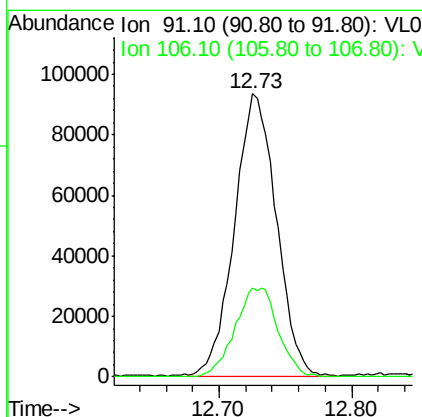
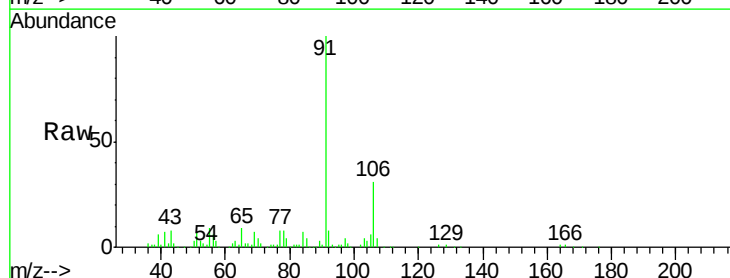
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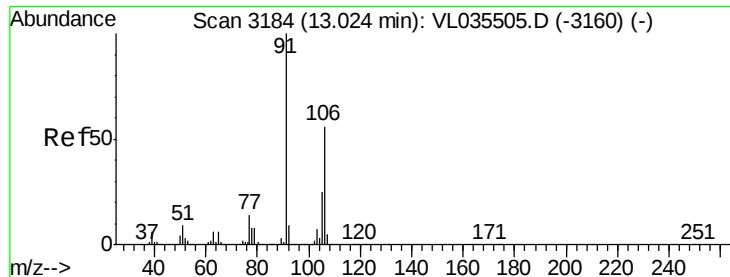
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#58
Ethyl Benzene
Concen: 0.416 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion: 91 Resp: 203681
Ion Ratio Lower Upper
91 100
106 31.3 30.3 45.5





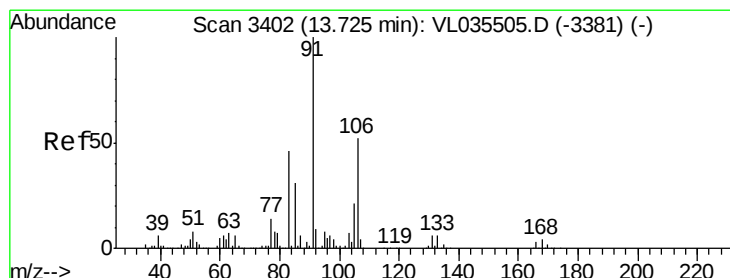
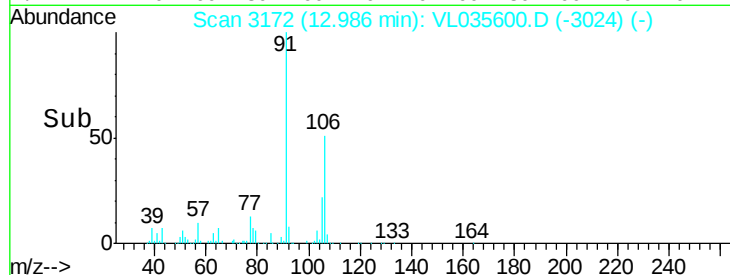
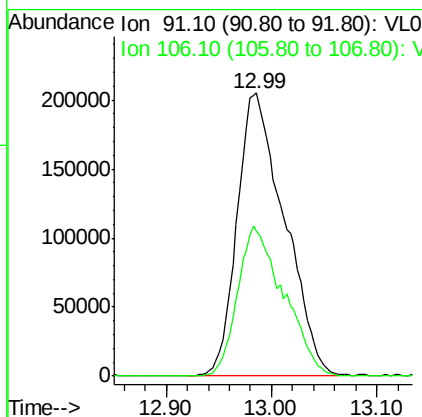
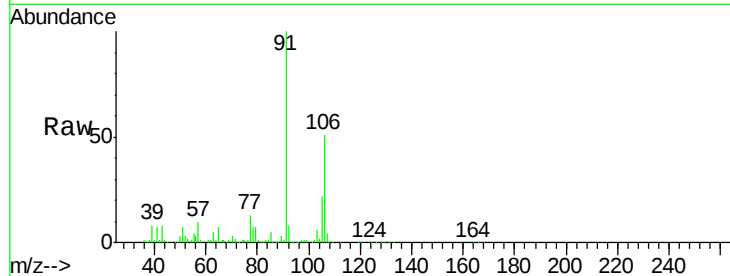
#59
m/p-Xylene
Concen: 1.554 ppbv
RT: 12.99 min Scan# 3172
Delta R.T. -0.02 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Tot Ion: 91 Resp: 636438
Ion Ratio Lower Upper
91 100
106 51.8 43.4 65.2

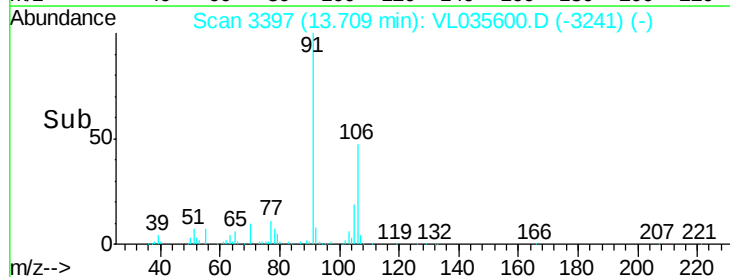
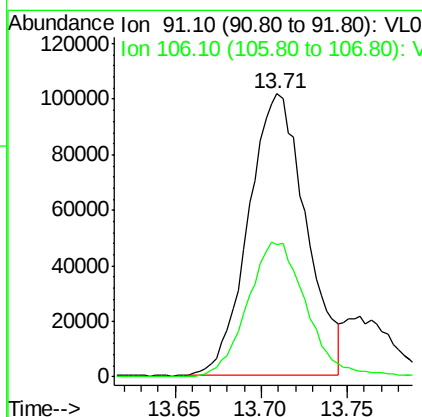
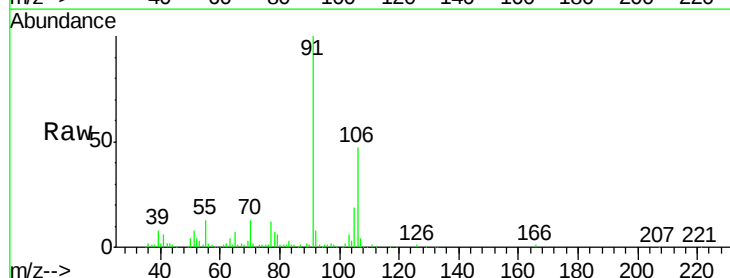
Manual Integrations
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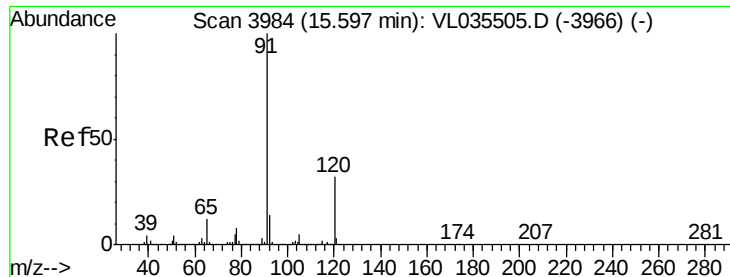
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#60
o-Xylene
Concen: 0.571 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion: 91 Resp: 235477
Ion Ratio Lower Upper
91 100
106 49.3 25.8 77.4





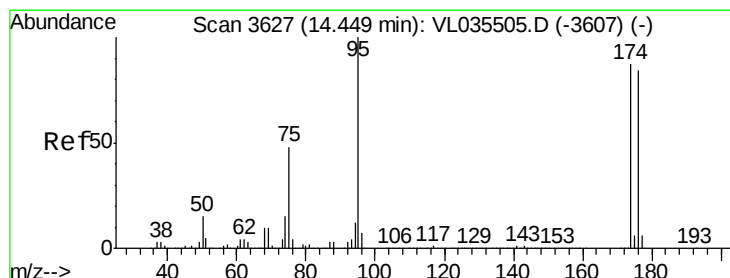
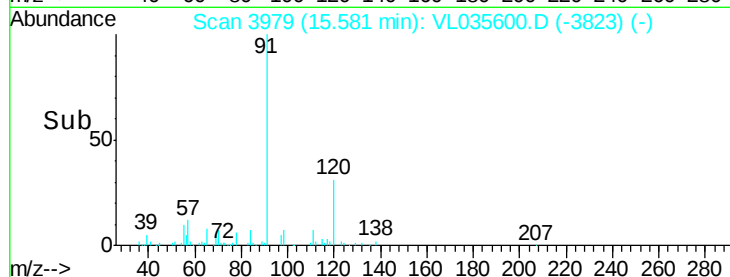
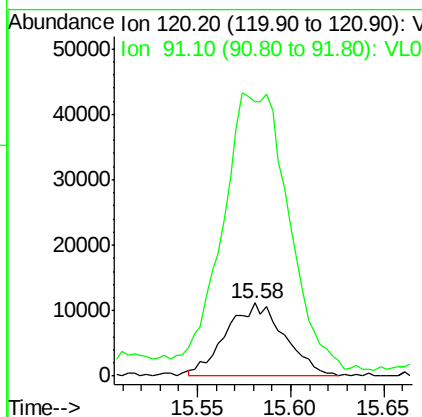
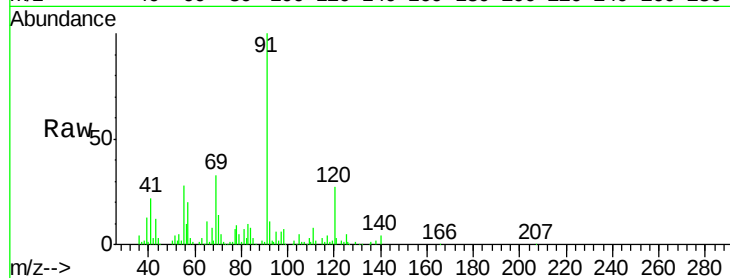
#64
n-propylbenzene
Concen: 0.120 ppbv m
RT: 15.58 min Scan# 3979
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Instrument :
MSVOA_L
ClientSampleId :
SV-10DUP

Tot Ion:120 Resp: 24300
Ion Ratio Lower Upper
120 100
91 0.0 279.4 419.0#

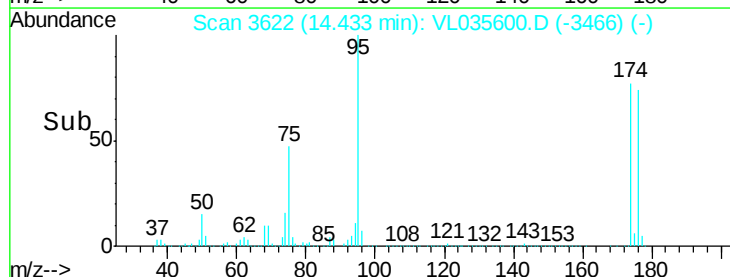
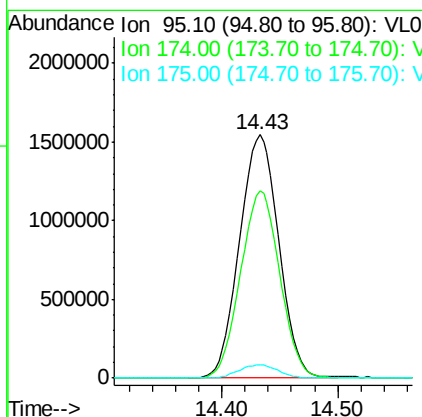
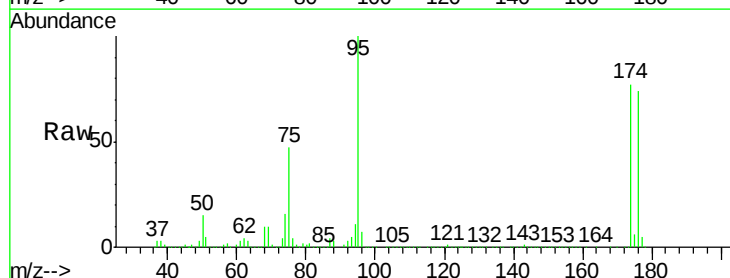
Manual Integrations
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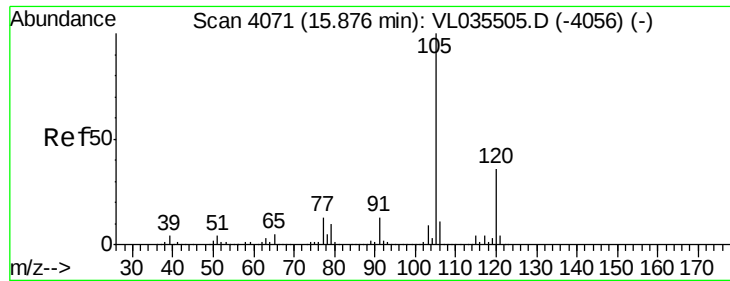
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.765 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. 0.00 min
Lab File: VL035600.D
Acq: 14 Sep 2020 15:59

Tgt Ion: 95 Resp: 3632557
Ion Ratio Lower Upper
95 100
174 77.5 69.6 104.4
175 5.6 5.1 7.7





#72

4-Ethyltoluene

Concen: 0.238 ppbv

RT: 15.86 min Scan# 4066

Delta R.T. 0.01 min

Lab File: VL035600.D

Acq: 14 Sep 2020 15:59

Instrument :

MSVOA_L

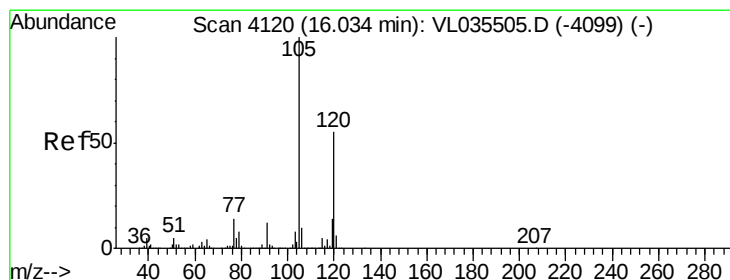
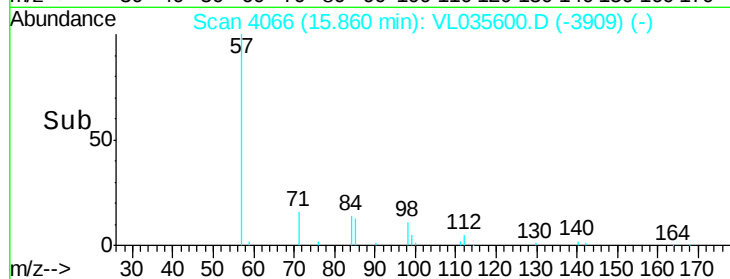
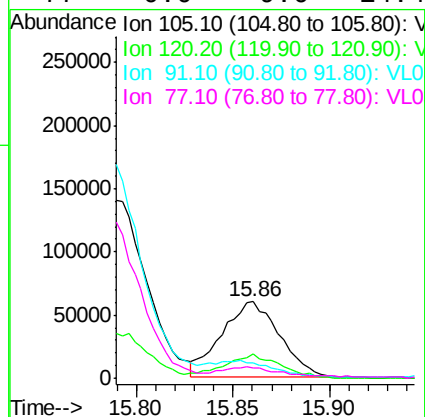
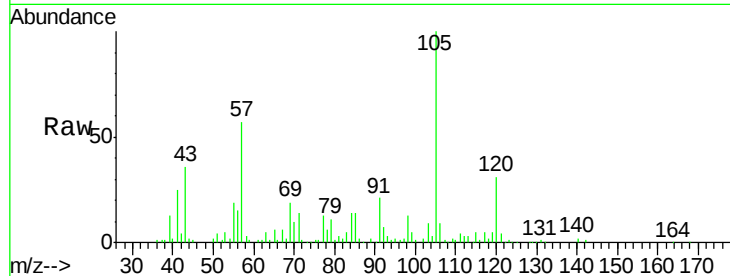
ClientSampleId :

SV-10DUP

Tot Ion	Ratio	Resp	Lower	Upper
105	100	124630		
120	31.8	27.4	41.2	
91	0.0	9.7	14.5	
77	0.0	9.6	14.4	

Manual Integrations
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#73

1,3,5-Trimethylbenzene

Concen: 0.163 ppbv

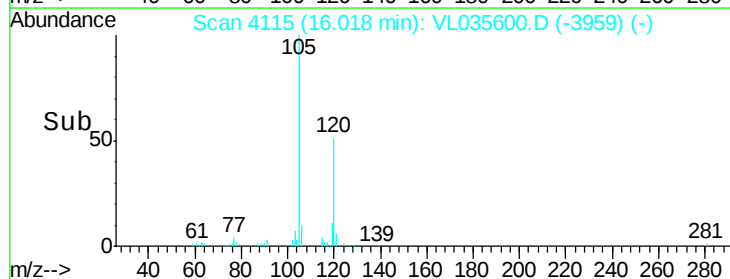
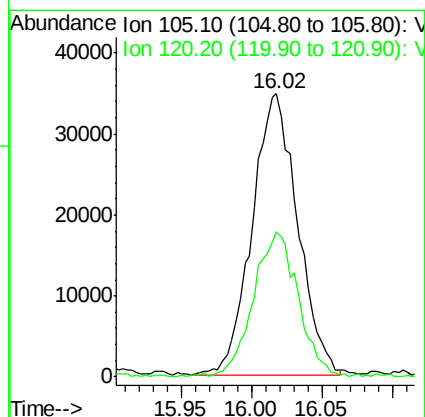
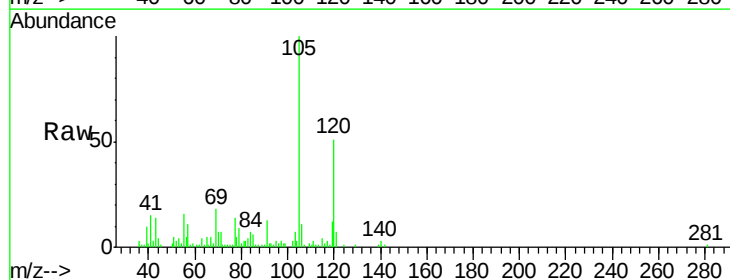
RT: 16.02 min Scan# 4115

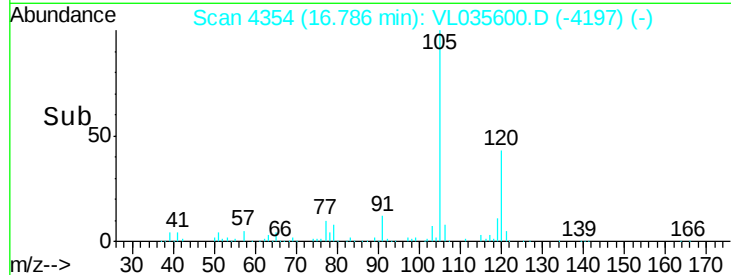
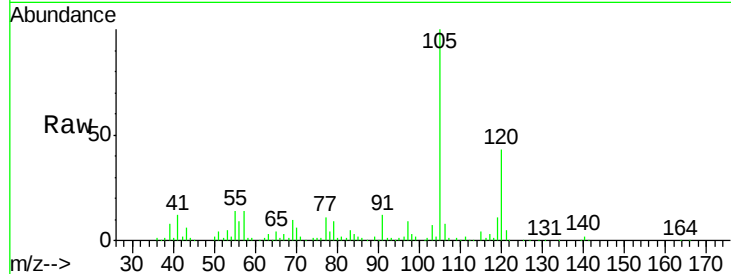
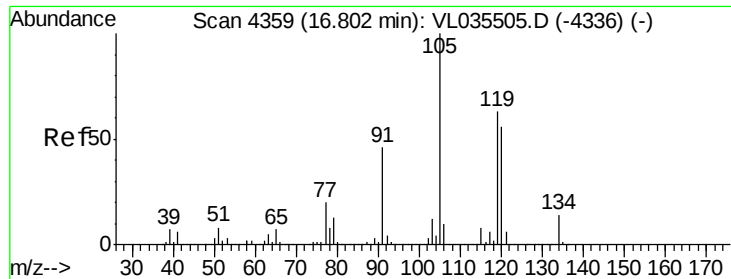
Delta R.T. 0.00 min

Lab File: VL035600.D

Acq: 14 Sep 2020 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	78855		
120	51.0	44.2	66.2	





#74
 1,2,4-Trimethylbenzene
 Concen: 0.592 ppbv m
 RT: 16.79 min Scan# 4354
 Delta R.T. 0.01 min
 Lab File: VL035600.D
 Acq: 14 Sep 2020 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-10DUP

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	42.6	44.4	66.6#
91	12.3	37.1	55.7#
77	11.2	16.0	24.0#

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 5:40:05 PM

