

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092419\
 Data File : VL034201.D
 Acq On : 24 Sep 2019 14:36
 Operator : SY/AP
 Sample : K5011-01DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-01DL

Manual Integrations
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 9/26/2019 12:39:34 AM

Quant Time: Sep 25 10:07:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1096230	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1845142	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1831904	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1724559	10.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	28130	0.444	ppbv #	78
11) Trichlorofluoromethane	3.95	101	19437	0.132	ppbv	95
13) Ethanol	3.60	45	503404	32.782	ppbv	99
15) Acetone	3.85	43	998611	6.797	ppbv	93
17) tert-Butyl alcohol	4.31	59	138969	1.493	ppbv	98
19) Isopropyl Alcohol	3.98	45	175296	1.940	ppbv #	1
20) Methylene Chloride	4.35	84	215688	5.092	ppbv	93
26) Hexane	5.71	57	296855	2.569	ppbv #	72
29) Chloroform	5.78	83	407857	2.470	ppbv	96
30) Cyclohexane	7.18	84	40717m	0.488	ppbv	
31) cis-1,2-Dichloroethene	5.57	61	38320	0.325	ppbv	88
34) 2-Butanone	5.27	43	87170	0.463	ppbv	97
38) Trichloroethene	7.89	130	625220	8.587	ppbv	98
53) Toluene	9.87	91	827443	3.715	ppbv	97
59) m/p-Xylene	13.04	91	103989m	0.425	ppbv	

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

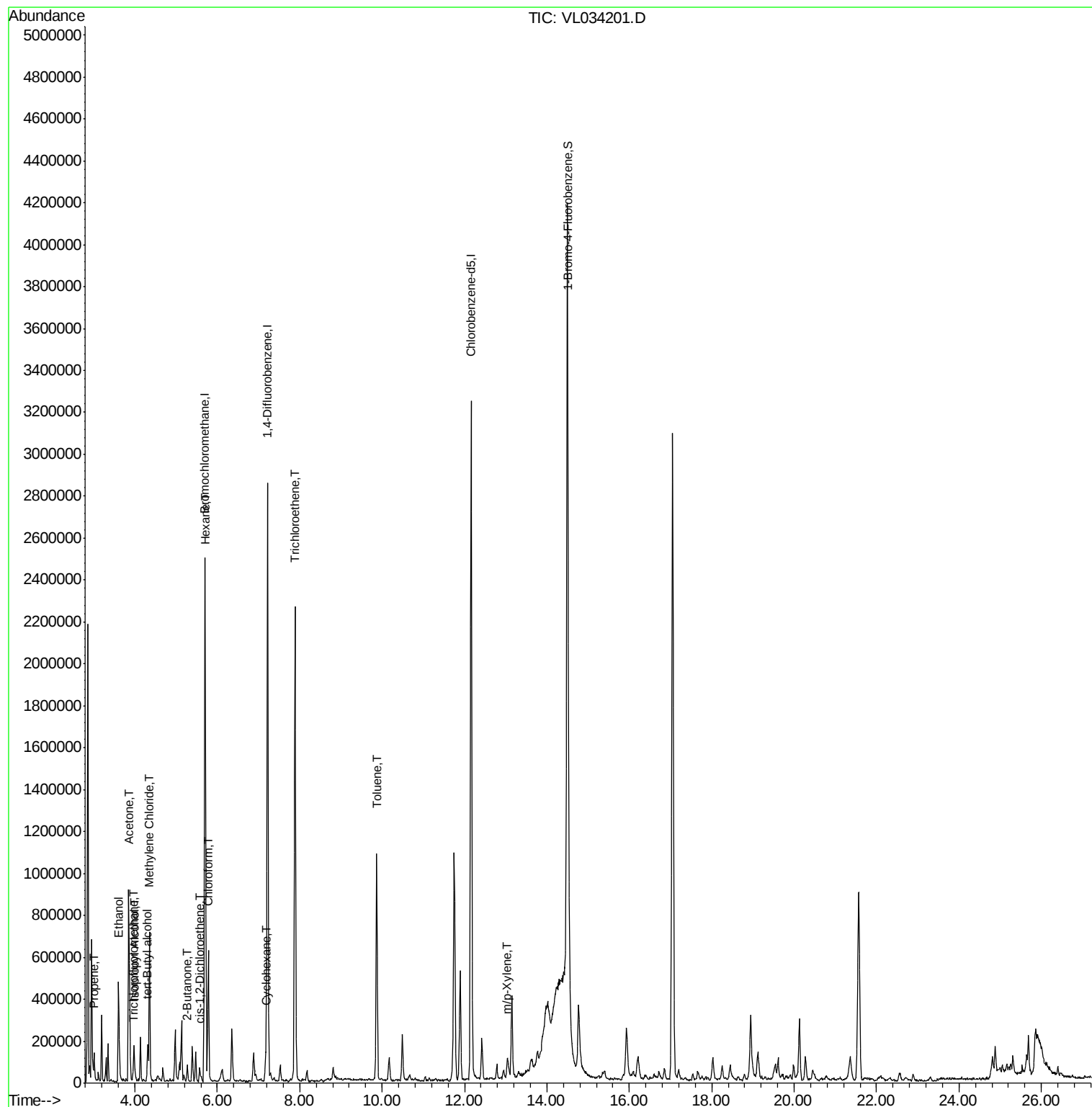
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092419\
Data File : VL034201.D
Acq On : 24 Sep 2019 14:36
Operator : SY/AP
Sample : K5011-01DL 4X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

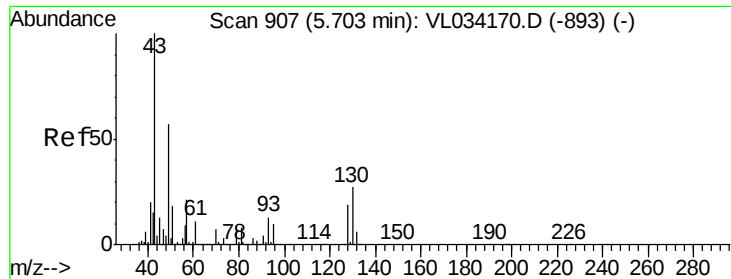
Instrument :
MSVOA_L
ClientSampleId :
AIR-01DL

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9/26/2019 12:39:34 AM

Quant Time: Sep 25 10:07:30 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL034201.D

Acq: 24 Sep 2019 14:36

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tot Ion: 49 Resp: 1096230

Ion Ratio Lower Upper

49 100

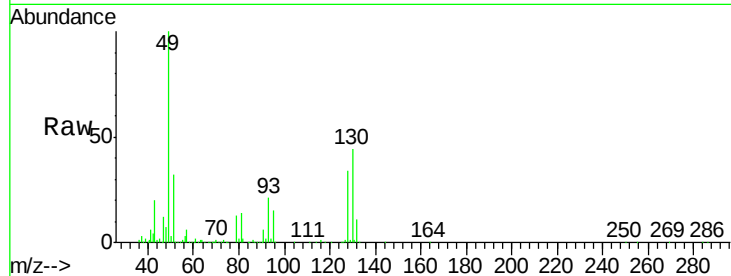
128 34.5 17.6 52.9

130 45.5 22.3 66.9

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

800000

600000

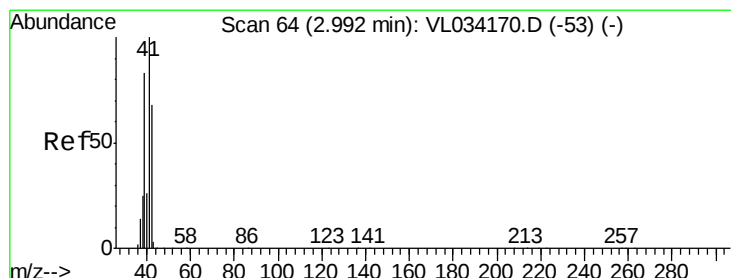
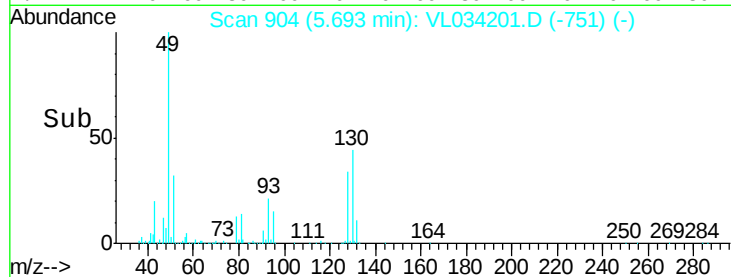
400000

200000

0

5.65 5.70 5.75

Time-->



#9

Propene

Concen: 0.444 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.02 min

Lab File: VL034201.D

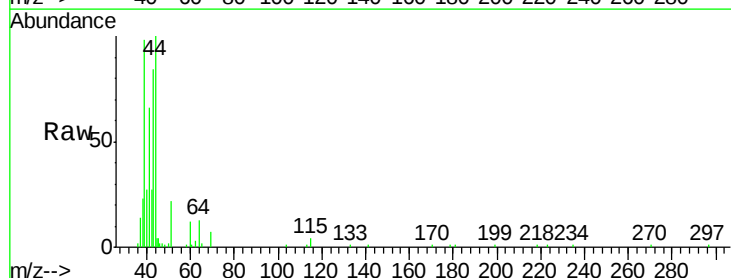
Acq: 24 Sep 2019 14:36

Tgt Ion: 41 Resp: 28130

Ion Ratio Lower Upper

41 100

42 51.3 55.8 83.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

20000

15000

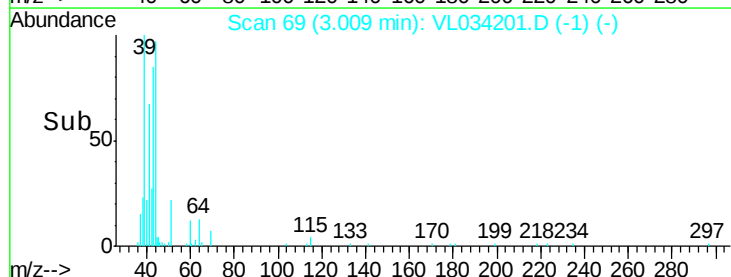
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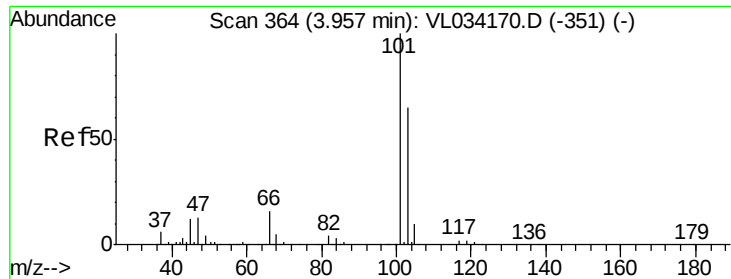
5000

0

2.95 3.00 3.05

Time-->





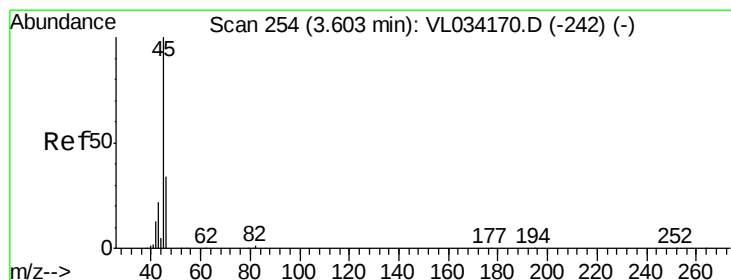
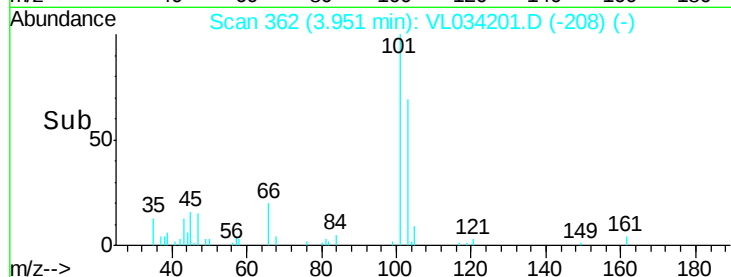
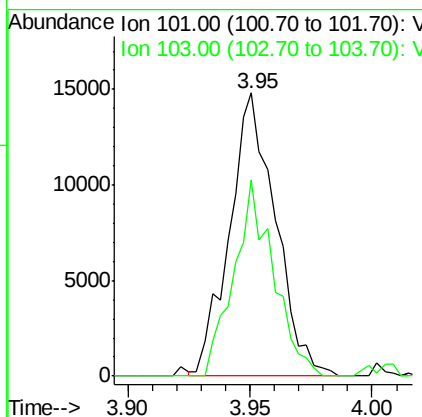
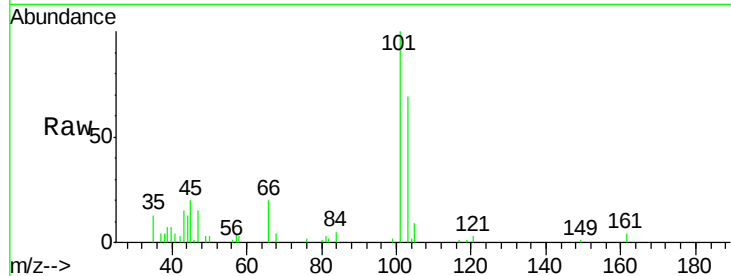
#11
Trichlorofluoromethane
Concen: 0.132 ppbv
RT: 3.95 min Scan# 362
Delta R.T. -0.01 min
Lab File: VL034201.D
Acq: 24 Sep 2019 14:36

Instrument :
MSVOA_L
ClientSampleId :
AIR-01DL

Tot Ion:101 Resp: 19437
Ion Ratio Lower Upper
101 100
103 69.3 52.1 78.1

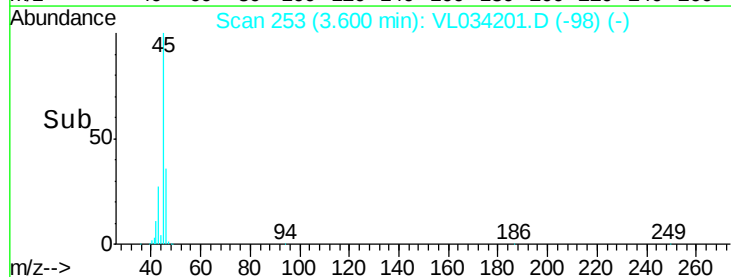
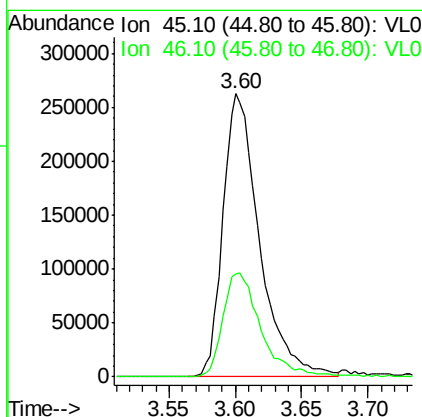
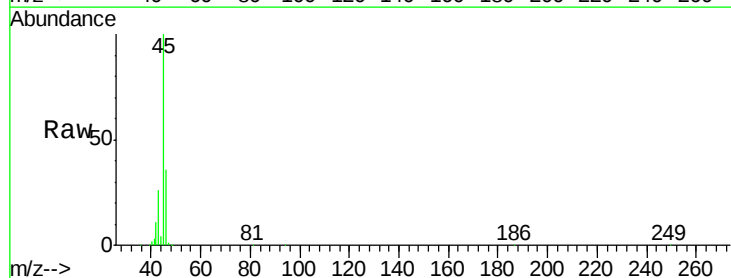
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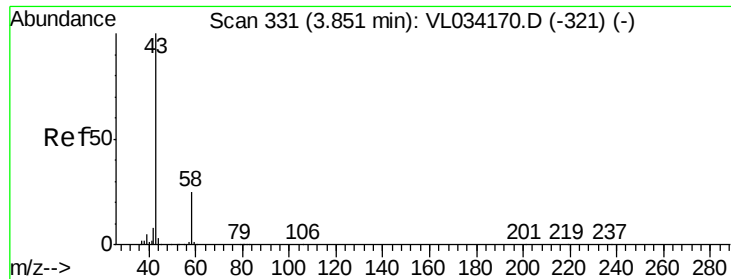
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#13
Ethanol
Concen: 32.782 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034201.D
Acq: 24 Sep 2019 14:36

Tgt Ion: 45 Resp: 503404
Ion Ratio Lower Upper
45 100
46 38.3 15.5 61.9





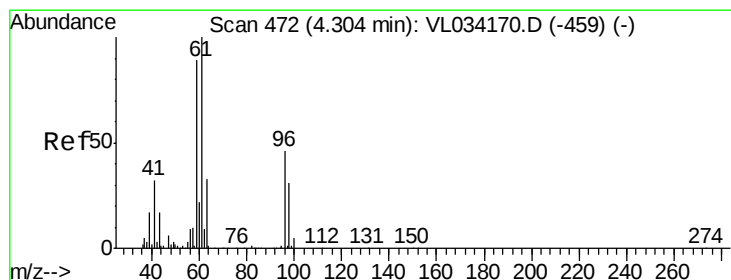
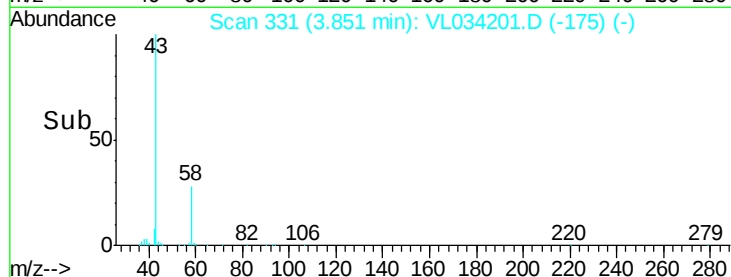
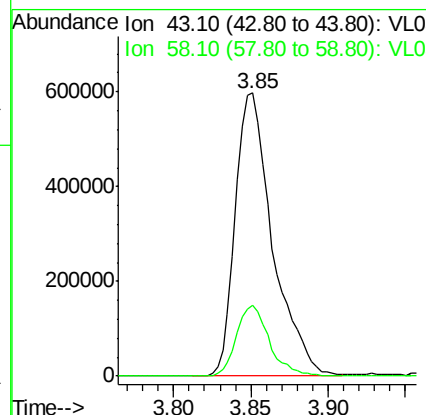
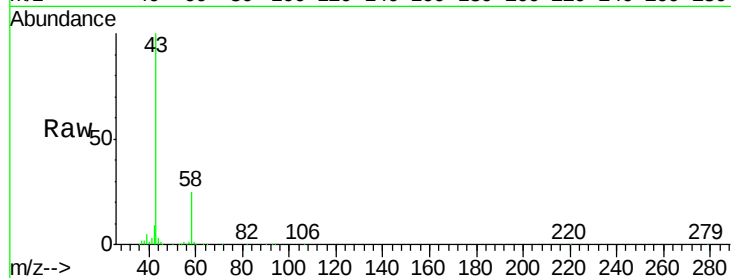
#15
Acetone
Concen: 6.797 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL034201.D
Acq: 24 Sep 2019 14:36

Instrument :
MSVOA_L
ClientSampleId :
AIR-01DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	22.2	20.5	30.7

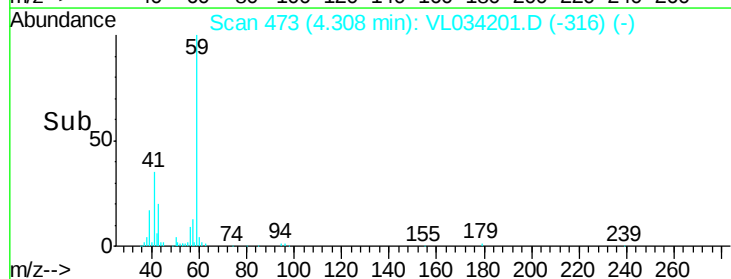
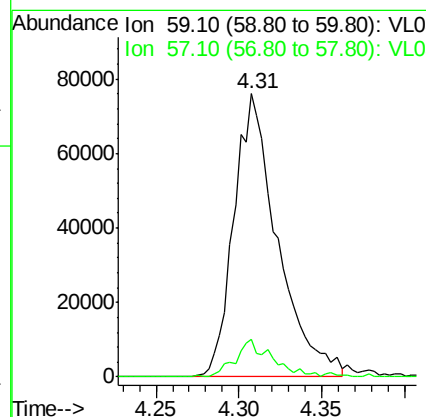
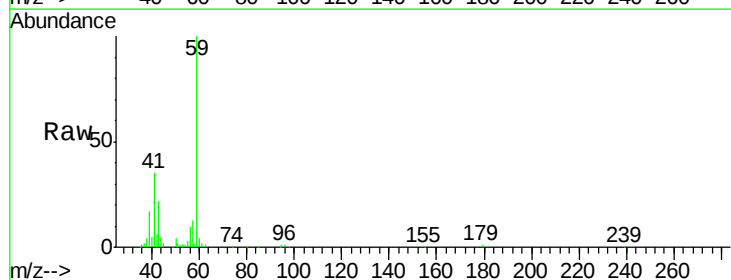
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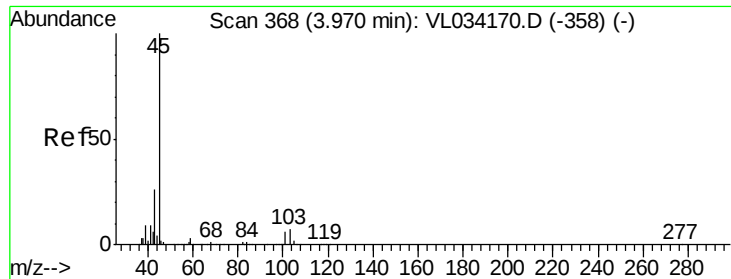
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#17
tert-Butyl alcohol
Concen: 1.493 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.00 min
Lab File: VL034201.D
Acq: 24 Sep 2019 14:36

Tgt Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.7	13.1





#19

Isopropyl Alcohol

Concen: 1.940 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL034201.D

Acq: 24 Sep 2019 14:36

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tot Ion: 45 Resp: 175296

Ion Ratio Lower Upper

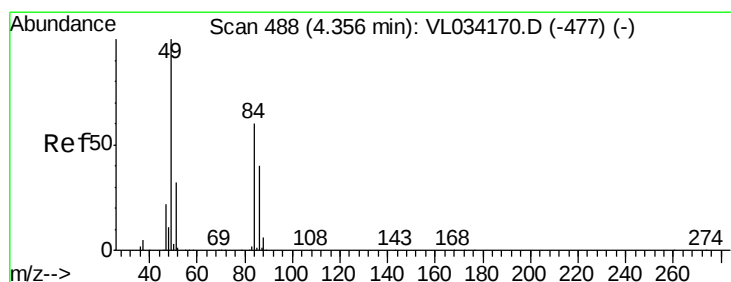
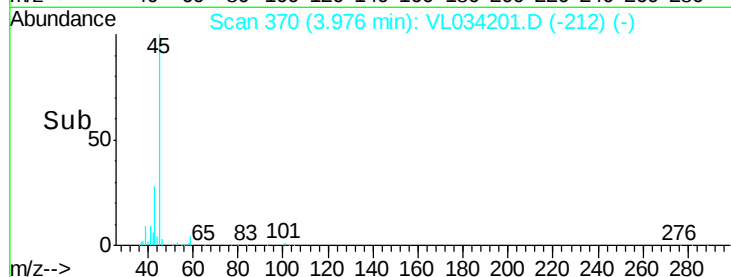
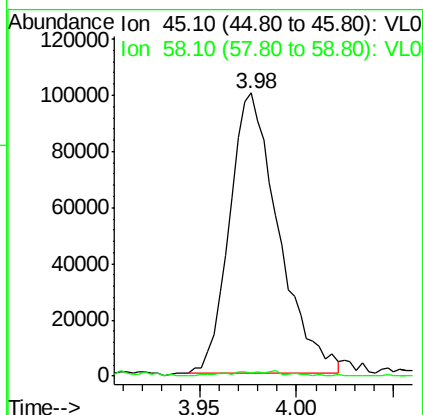
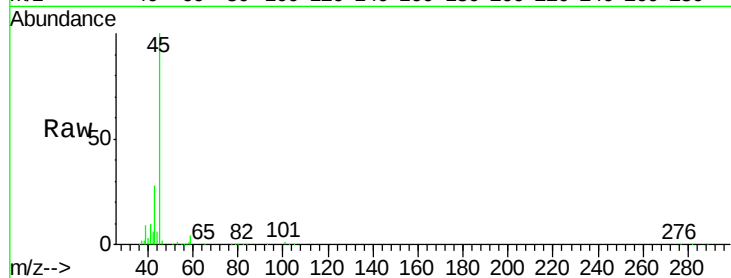
45 100

58 126.7 1.4 2.0#

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#20

Methylene Chloride

Concen: 5.092 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.01 min

Lab File: VL034201.D

Acq: 24 Sep 2019 14:36

Tgt Ion: 84 Resp: 215688

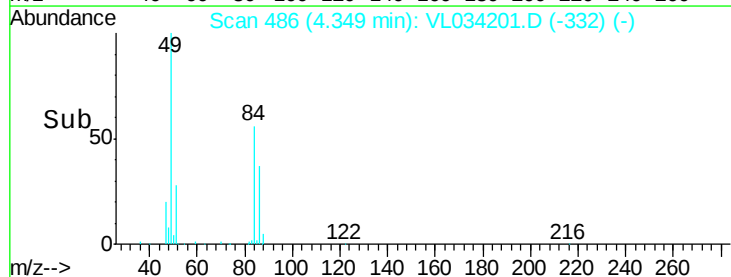
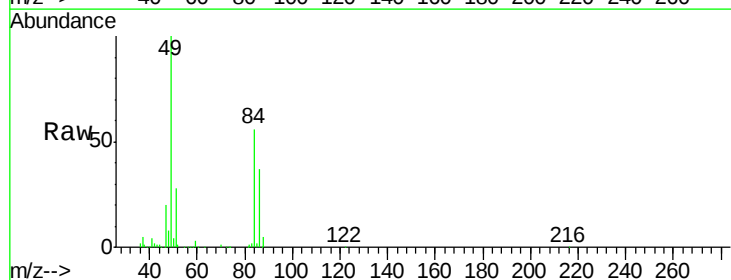
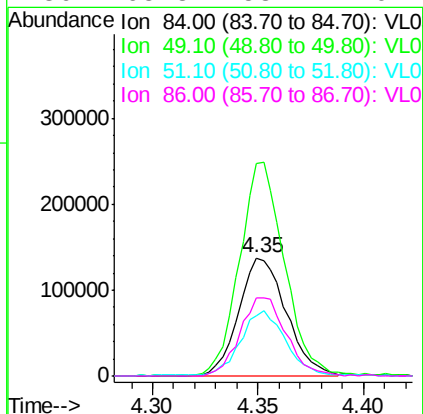
Ion Ratio Lower Upper

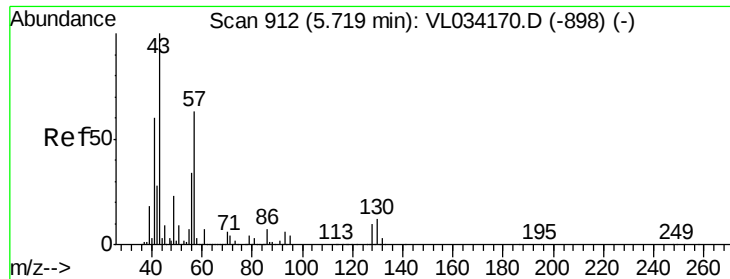
84 100

49 179.9 133.8 200.8

51 49.8 43.6 65.4

86 65.8 53.1 79.7





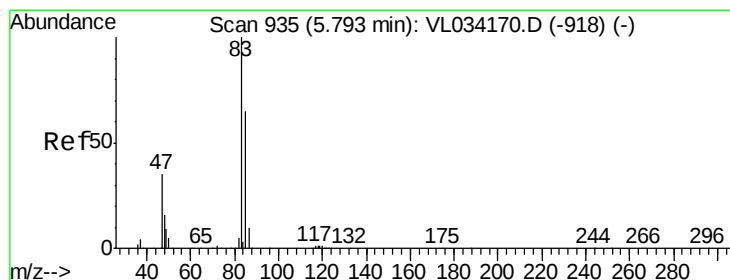
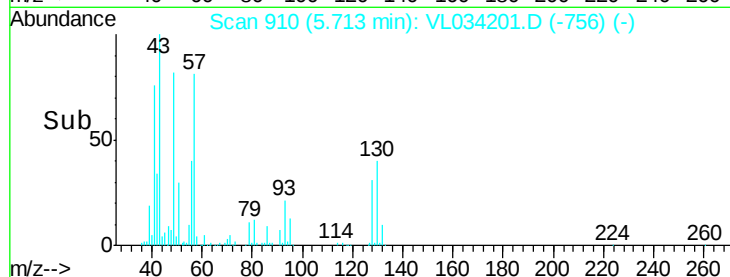
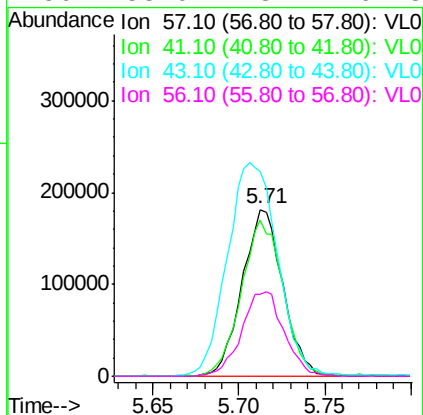
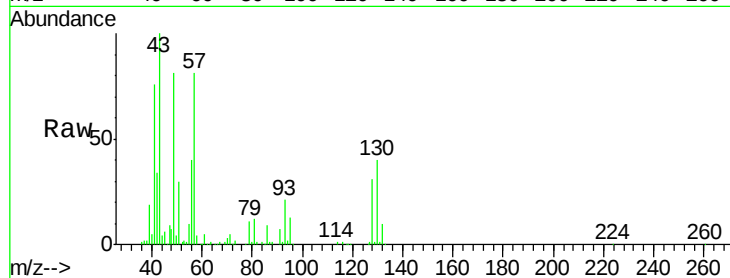
#26
Hexane
Concen: 2.569 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034201.D
Acq: 24 Sep 2019 14:36

Instrument :
MSVOA_L
ClientSampleId :
AIR-01DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.7	78.5	117.7
43	159.2	189.5	284.3#
56	53.0	43.2	64.8

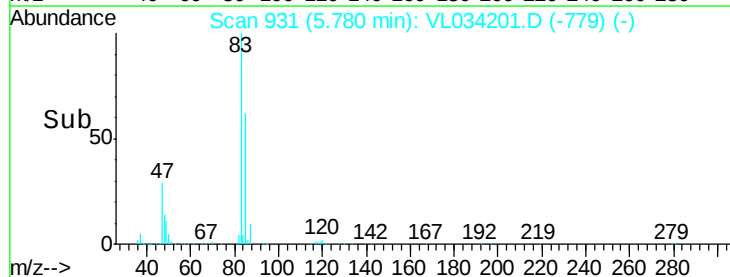
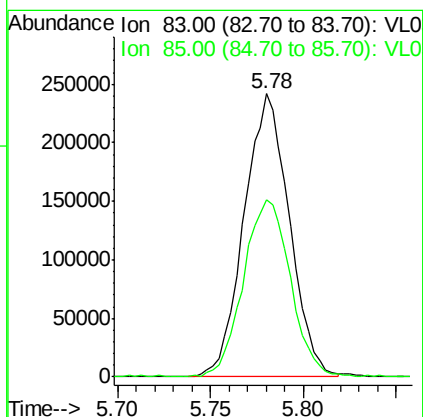
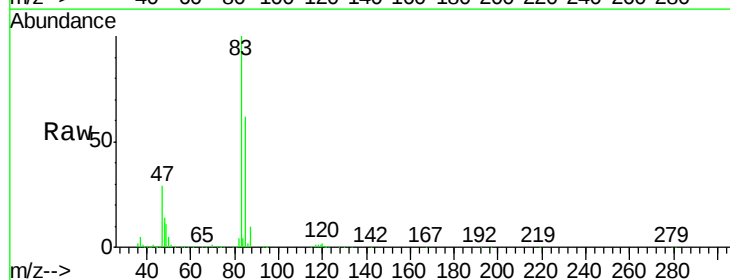
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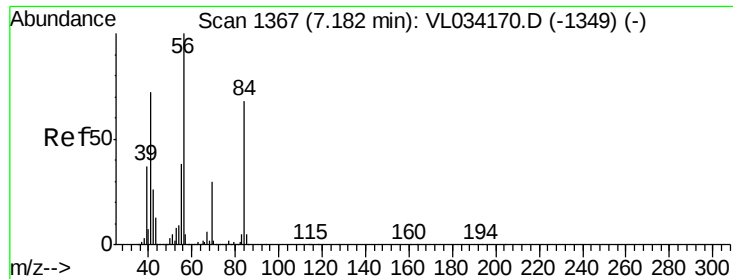
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#29
Chloroform
Concen: 2.470 ppbv
RT: 5.78 min Scan# 931
Delta R.T. -0.01 min
Lab File: VL034201.D
Acq: 24 Sep 2019 14:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.3	78.5





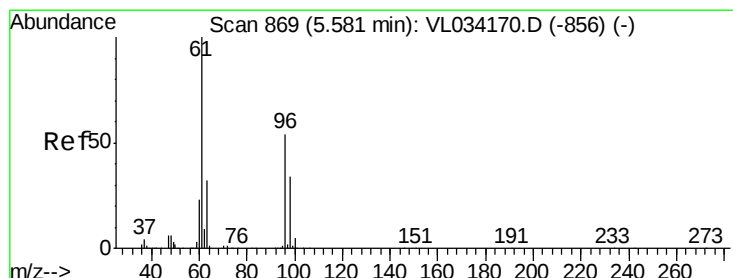
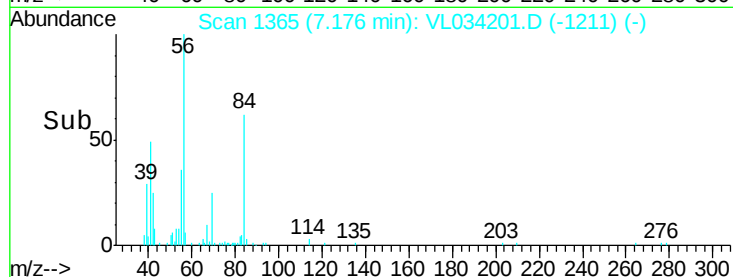
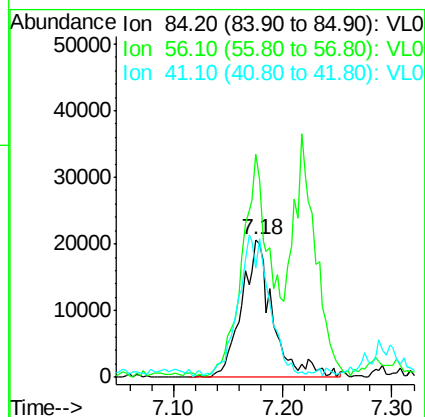
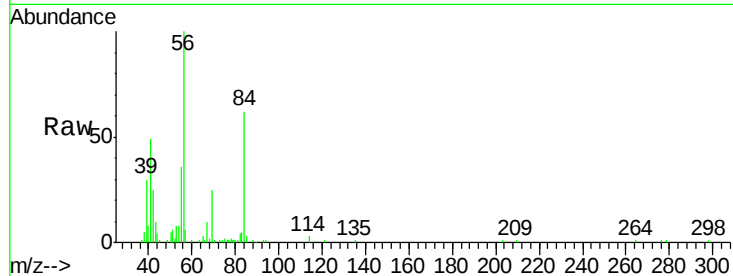
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Cyclohexane
Concen: 0.488 ppbv m
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL034201.D
Acq: 24 Sep 2019 14:36

Instrument :
MSVOA_L
ClientSampled :
AIR-01DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	126.2	189.2#
41	100.8	85.8	128.8

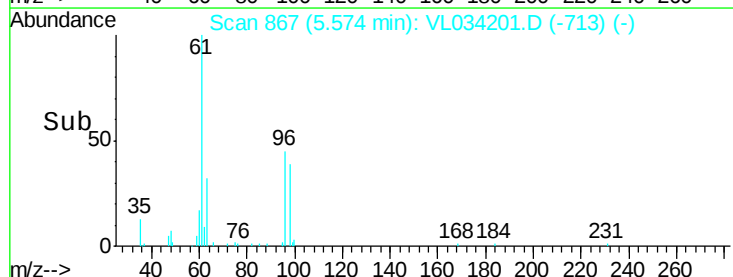
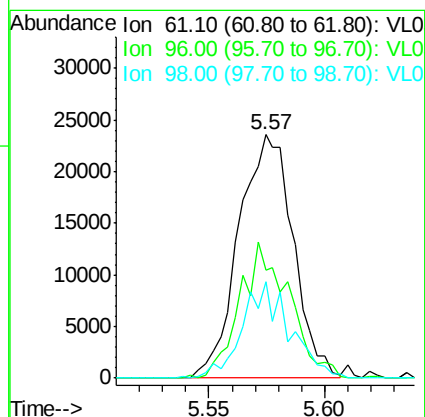
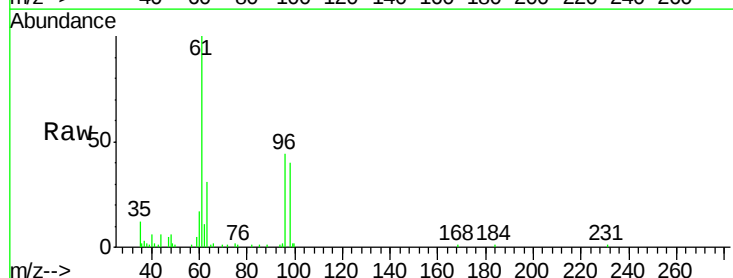
Manual Integrations
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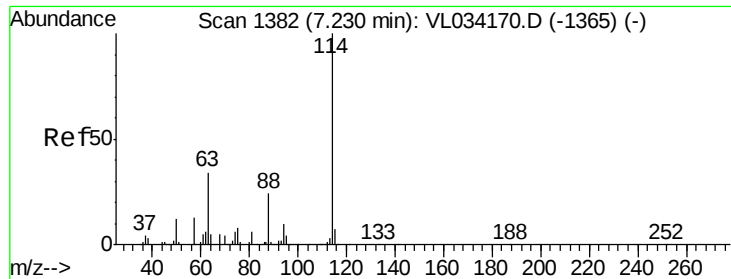
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#31
cis-1,2-Dichloroethene
Concen: 0.325 ppbv
RT: 5.57 min Scan# 867
Delta R.T. -0.01 min
Lab File: VL034201.D
Acq: 24 Sep 2019 14:36

Tgt Ion	Ratio	Lower	Upper
61	100		
96	43.7	43.0	64.4
98	39.8	27.2	40.8





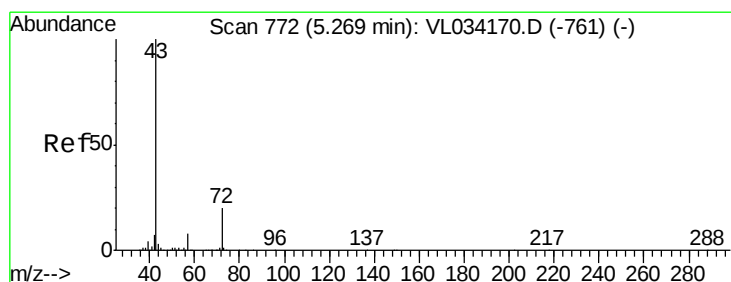
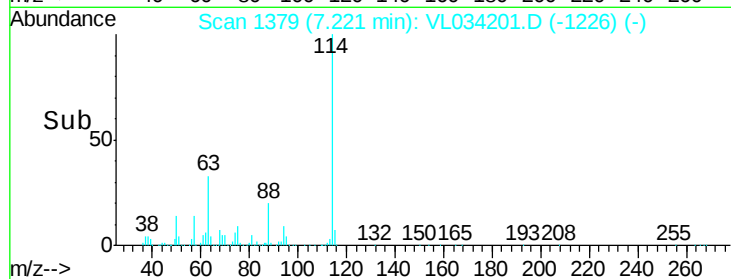
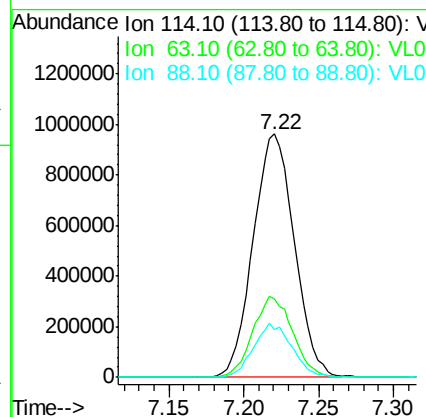
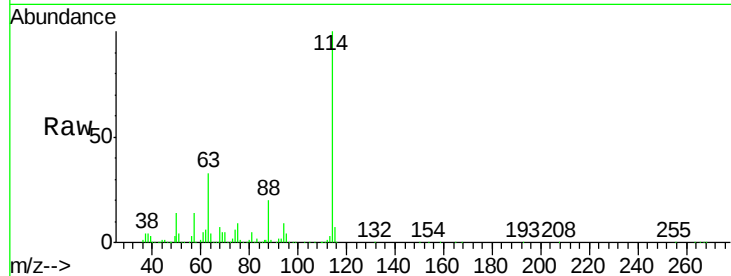
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.01 min
 Lab File: VL034201.D
 Acq: 24 Sep 2019 14:36

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-01DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	32.3	27.8	41.6
88	20.8	17.1	25.7

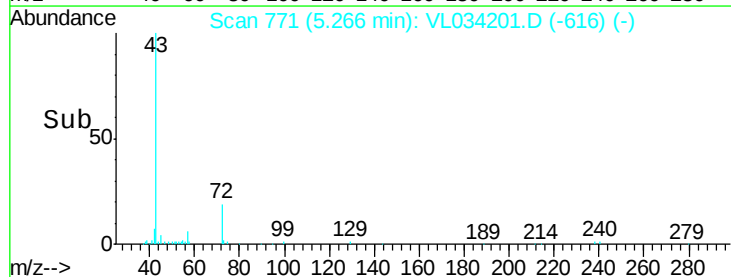
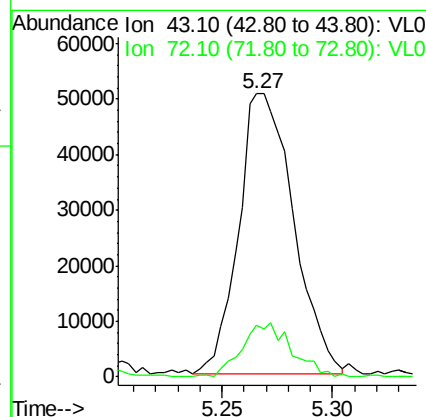
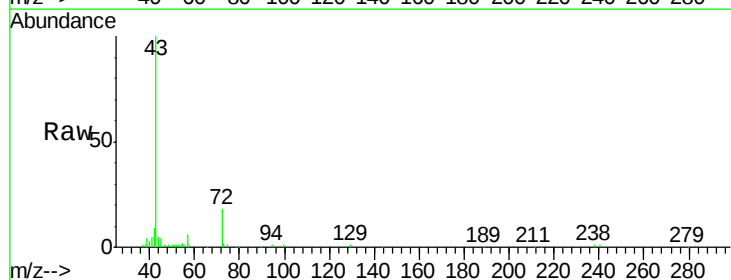
Manual Integrations
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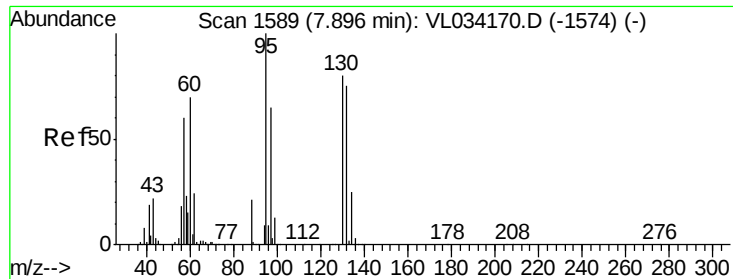
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#34
 2-Butanone
 Concen: 0.463 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. -0.00 min
 Lab File: VL034201.D
 Acq: 24 Sep 2019 14:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	17.6	15.0	22.6





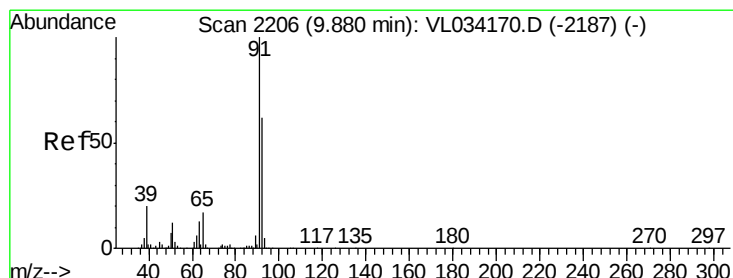
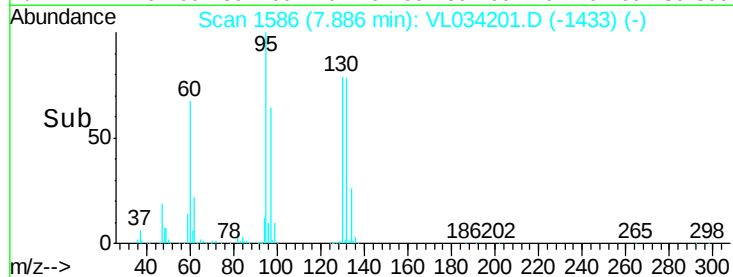
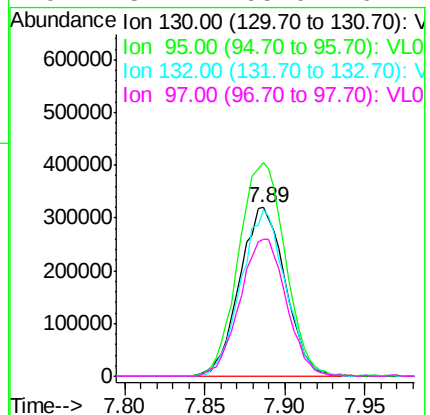
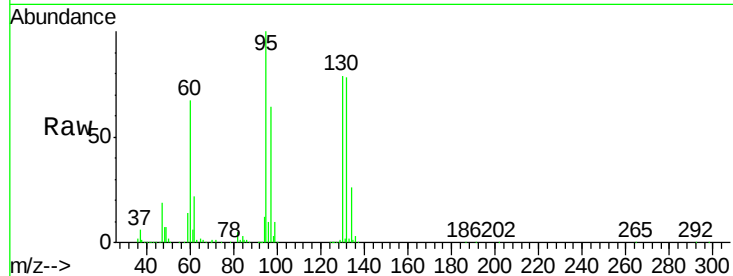
#38
 Trichloroethene
 Concen: 8.587 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: VL034201.D
 Acq: 24 Sep 2019 14:36

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-01DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
130	100		625220		
95	126.7	99.8	149.6		
132	98.2	75.2	112.8		
97	81.1	65.0	97.4		

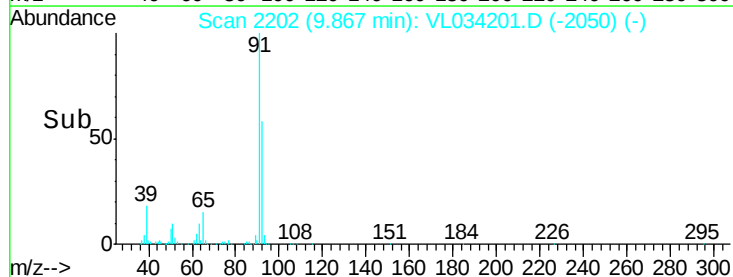
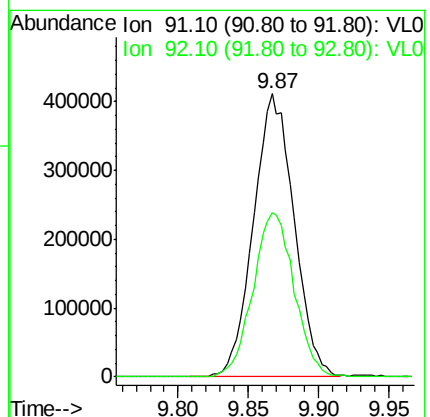
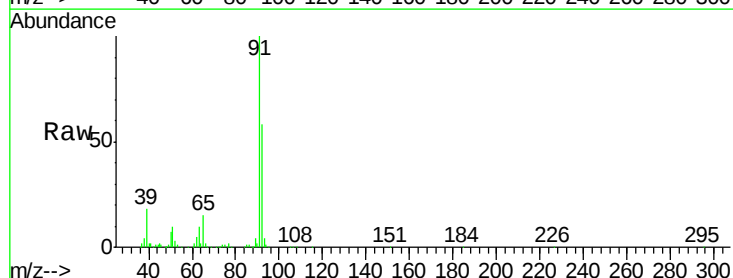
Manual Integrations
 APPROVED

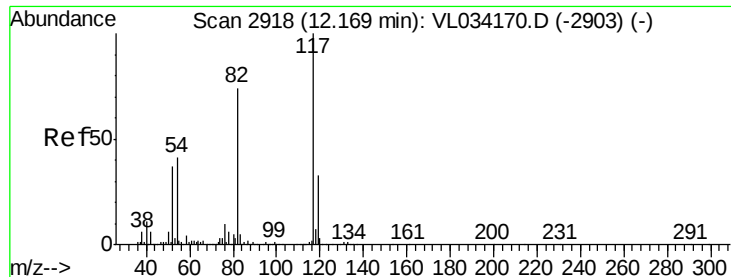
MMDadoda
 9/26/2019 12:39:34 AM



#53
 Toluene
 Concen: 3.715 ppbv
 RT: 9.87 min Scan# 2202
 Delta R.T. -0.01 min
 Lab File: VL034201.D
 Acq: 24 Sep 2019 14:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		827443		
92	59.0	49.0	73.6		





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2915

Delta R.T. -0.01 min

Lab File: VL034201.D

Acq: 24 Sep 2019 14:36

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tot Ion:117 Resp: 1831904

Ion Ratio Lower Upper

117 100

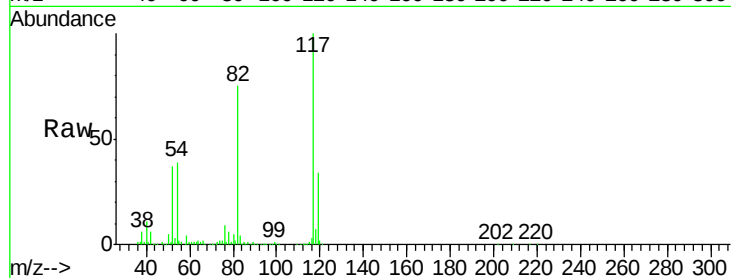
82 77.9 58.2 87.4

119 33.4 23.7 35.5

Manual Integrations
APPROVED

MMDadoda

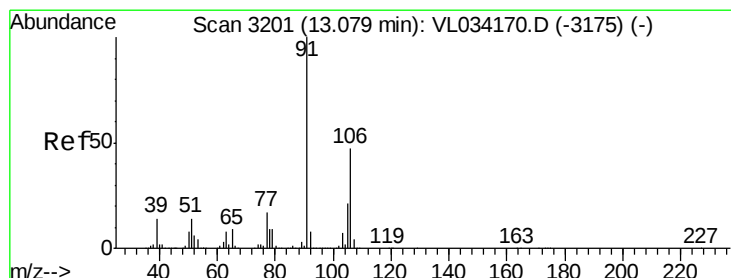
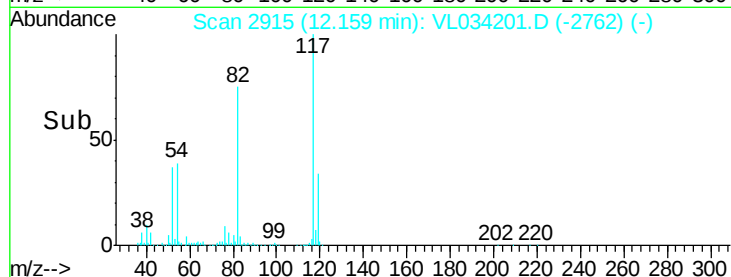
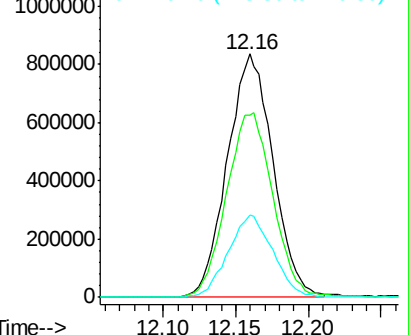
9/26/2019 12:39:34 AM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.425 ppbv m

RT: 13.04 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VL034201.D

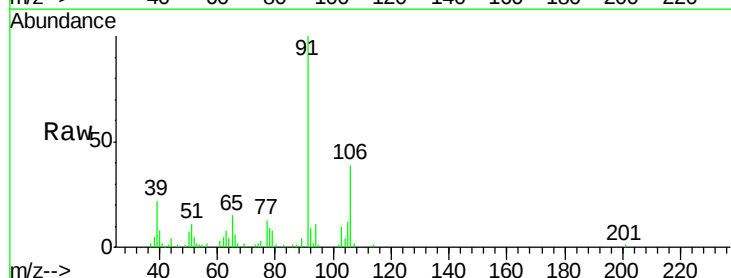
Acq: 24 Sep 2019 14:36

Tgt Ion: 91 Resp: 103989

Ion Ratio Lower Upper

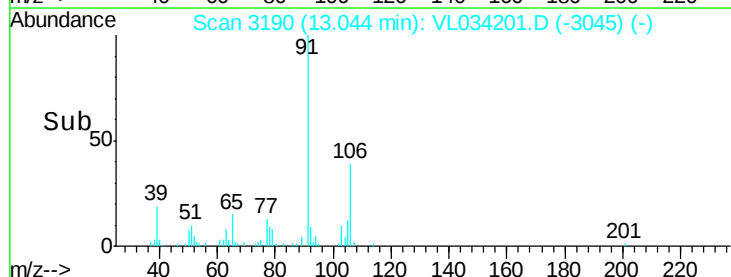
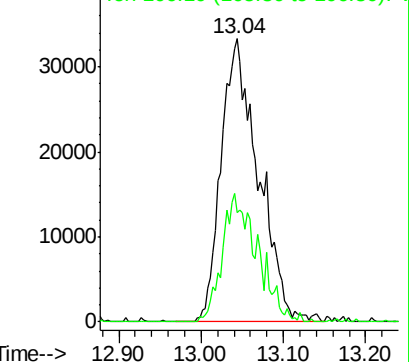
91 100

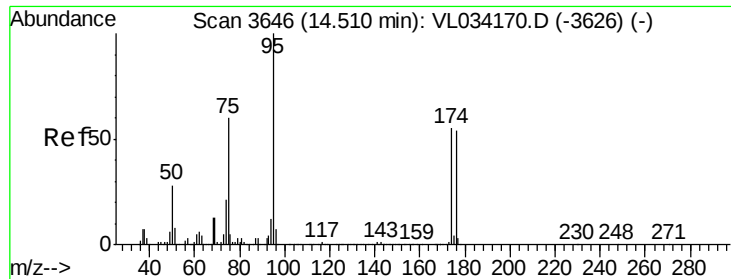
106 0.0 35.5 53.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.834 ppbv
 RT: 14.50 min Scan# 3643
 Delta R.T. -0.01 min
 Lab File: VL034201.D
 Acq: 24 Sep 2019 14:36

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-01DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	59.1	45.1	67.7
175	4.5	3.3	4.9

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 12:39:34 AM

