

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022521\
 Data File : VL036391.D
 Acq On : 25 Feb 2021 21:19
 Operator : SY/AP
 Sample : M1458-13 0.1LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2021

Manual Integrations
 APPROVED

MMDadoda
 3/1/2021 10:03:14 AM

Quant Time: Feb 26 16:15:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1473307	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3234664	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2929432	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2368875	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	33658	0.153 ppbv	90
3) Chlorodifluoromethane	2.97	51	27106	0.148 ppbv	96
4) Chloromethane	3.13	50	10219m	0.116 ppbv	
5) Vinyl Chloride	3.25	62	9153	0.111 ppbv	99
6) Bromomethane	3.46	94	6098m	0.125 ppbv	
7) Chloroethane	3.55	64	4894m	0.167 ppbv	
8) Dichlorotetrafluoroethane	3.17	85	29084	0.145 ppbv	96
9) Propene	3.01	41	17794m	0.261 ppbv	
10) Heptane	8.10	43	8420	0.042 ppbv #	1
11) Trichlorofluoromethane	3.93	101	30461m	0.141 ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	20953m	0.157 ppbv	
14) Bromoethene	3.73	108	7575m	0.136 ppbv	
15) Acetone	3.86	43	40120m	0.223 ppbv	
16) 1,3-Butadiene	3.31	39	16735m	0.194 ppbv	
17) tert-Butyl alcohol	4.31	59	13058m	0.093 ppbv	
18) 1,1-Dichloroethene	4.27	96	8589m	0.142 ppbv	
19) Isopropyl Alcohol	3.98	45	16342m	0.164 ppbv	
20) Methylene Chloride	4.33	84	15116m	0.260 ppbv	
21) Allvl Chloride	4.40	41	7811	0.078 ppbv #	16
22) trans-1,2-Dichloroethene	4.87	96	8875m	0.161 ppbv	
23) Vinyl Acetate	5.06	43	30899m	0.146 ppbv	
24) 1,1-Dichloroethane	4.99	63	23767m	0.152 ppbv	
25) Ethyl Acetate	5.68	43	42574m	0.122 ppbv	
26) Hexane	5.67	57	16550m	0.116 ppbv	
27) Carbon Disulfide	4.53	76	14072m	0.107 ppbv	
28) Methyl tert-Butyl Ether	5.04	73	21804m	0.117 ppbv	
29) Chloroform	5.74	83	30963m	0.135 ppbv	
30) Cyclohexane	7.14	84	19036m	0.160 ppbv	
31) cis-1,2-Dichloroethene	5.53	61	15928m	0.113 ppbv	
32) 1,1,1-Trichloroethane	6.49	97	22201	0.103 ppbv #	78
34) 2-Butanone	5.25	43	29272m	0.136 ppbv	
35) Carbon Tetrachloride	7.00	117	22111	0.102 ppbv	94
36) Benzene	6.87	78	27342m	0.100 ppbv	
37) 1,2-Dichloroethane	6.29	62	10897	0.064 ppbv #	71
38) Trichloroethene	7.82	130	8424	0.086 ppbv #	54
39) 1,2-Dichloropropane	7.16	63	936749	8.392 ppbv #	23
43) Methyl Methacrylate	8.01	69	5498	0.047 ppbv #	17
47) 1,1,2-Trichloroethane	9.45	97	3759	0.033 ppbv #	54
52) Tetrachloroethene	11.20	164	3737	0.037 ppbv #	51
53) Toluene	9.78	91	12432	0.042 ppbv #	23
56) 1,1,1,2-Tetrachloroethane	12.11	131	9268	0.069 ppbv #	1

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QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Chlorobenzene	12.13	112	23610	0.104	ppbv #	73
60) o-Xylene	13.67	91	32762	0.097	ppbv	94
62) Isopropylbenzene	14.65	105	47892	0.095	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	20267	0.076	ppbv #	39
69) p-Isopropyltoluene	17.65	119	17139	0.036	ppbv #	30
72) 4-Ethyltoluene	15.83	105	11957	0.032	ppbv #	8
75) 1,3-Dichlorobenzene	16.99	146	6648	0.033	ppbv #	22

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

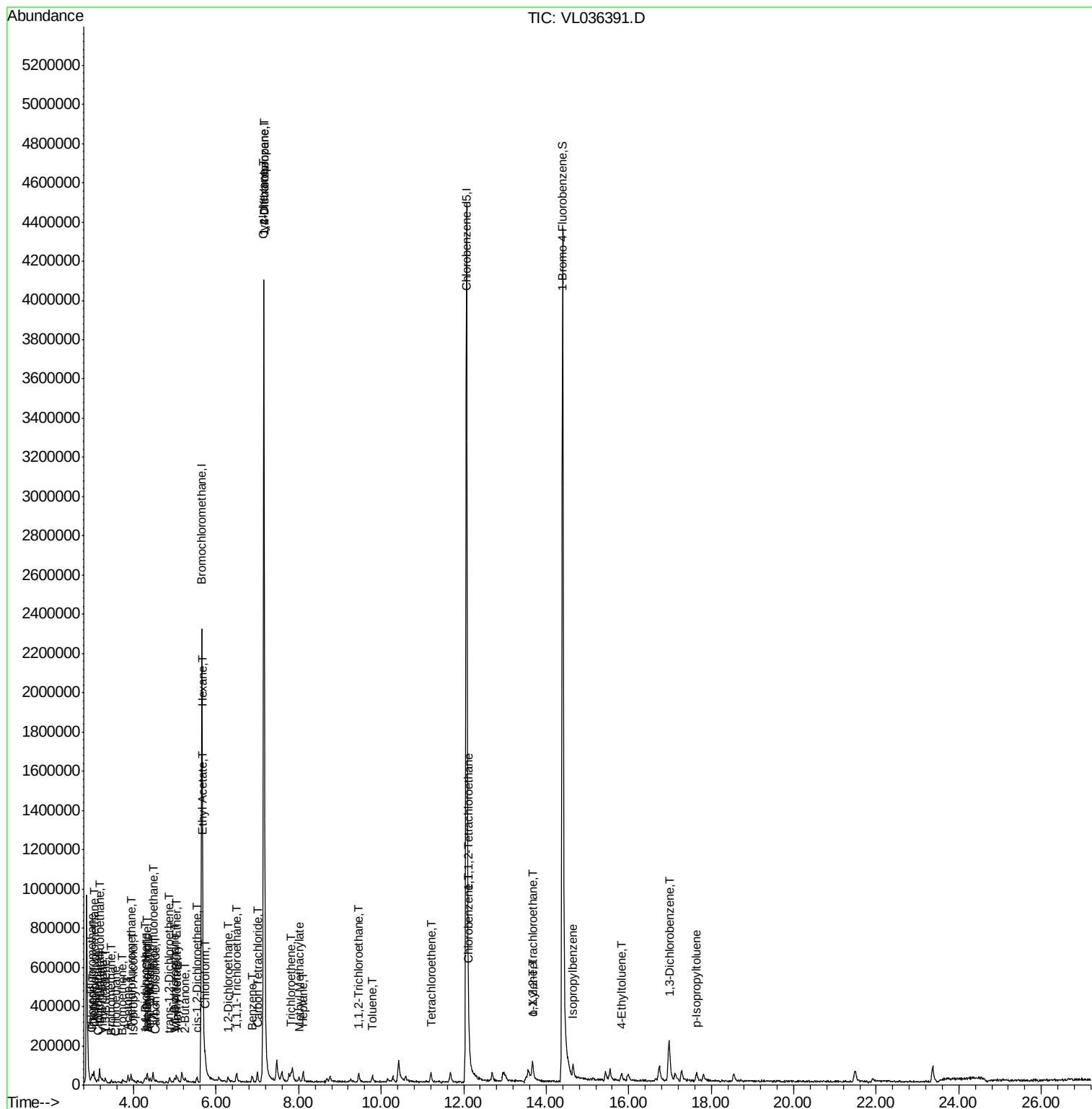
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022521\
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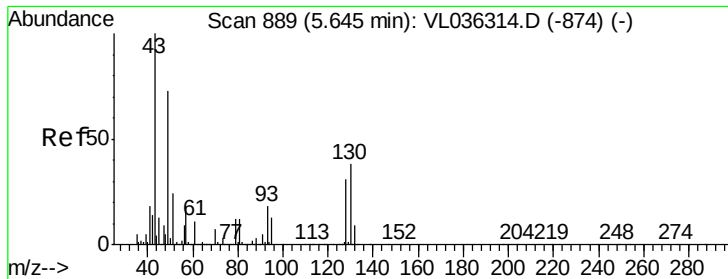
Instrument :
MSVOA_L
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LOD-MDL-AIR-01-QT1-2021

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

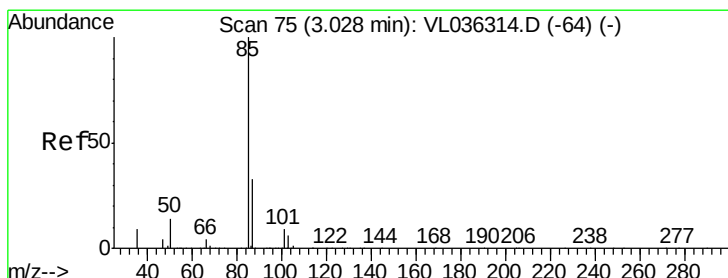
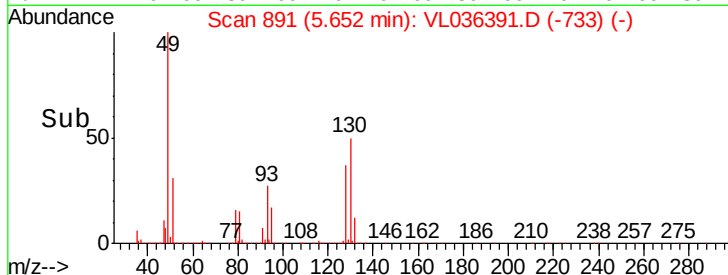
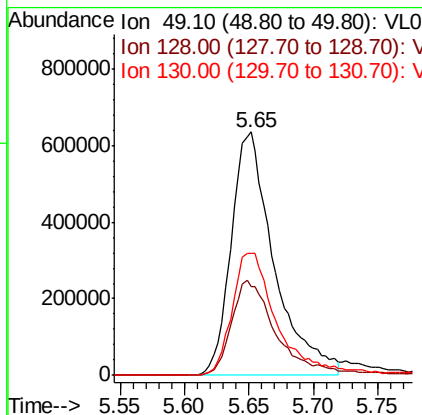
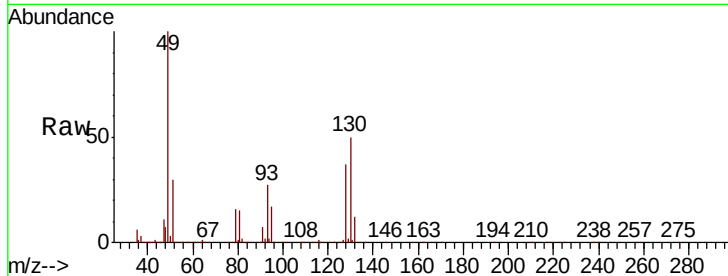
LOD-MDL-AIR-01-QT1-2021

Tot Ion: 49 Resp: 1473307

Ion	Ratio	Lower	Upper
49	100		
128	41.9	20.8	62.5
130	54.3	26.7	80.1

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#2

Dichlorodifluoromethane

Concen: 0.153 ppbv

RT: 3.03 min Scan# 77

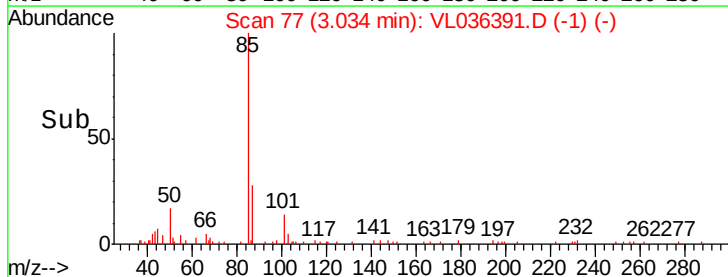
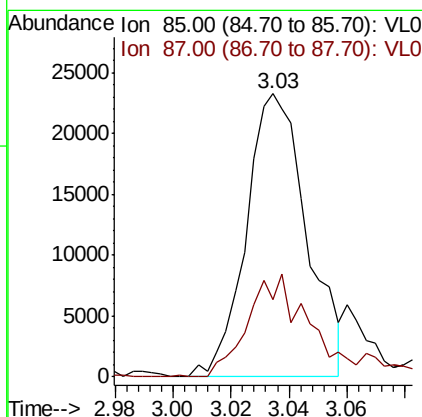
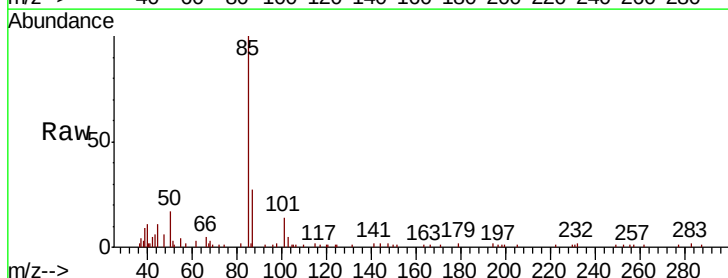
Delta R.T. 0.01 min

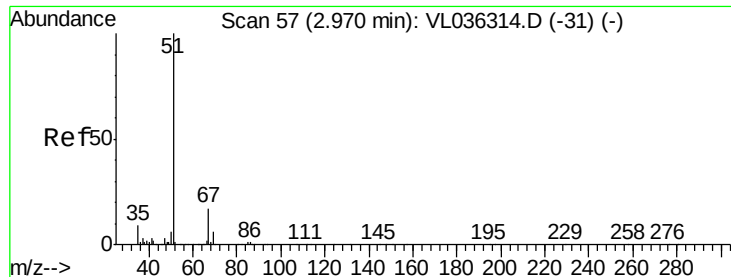
Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion: 85 Resp: 33658

Ion	Ratio	Lower	Upper
85	100		
87	27.5	26.5	39.7





#3

Chlorodifluoromethane

Concen: 0.148 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion: 51 Resp: 27106

Ion Ratio Lower Upper

51 100

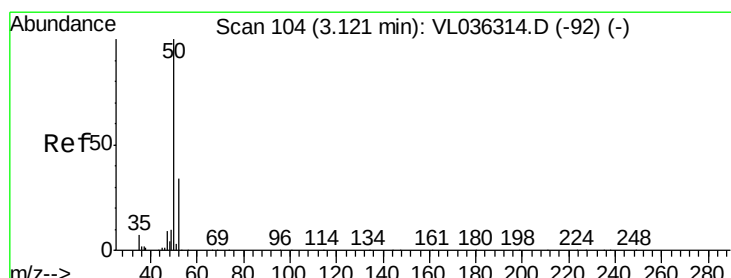
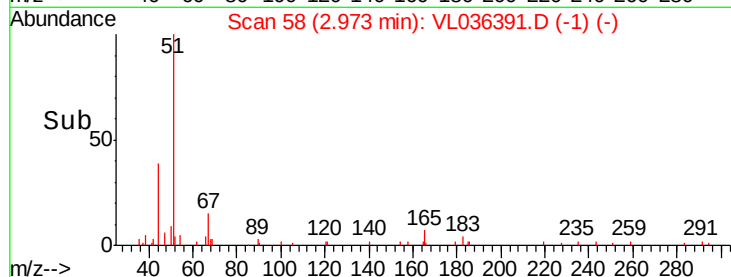
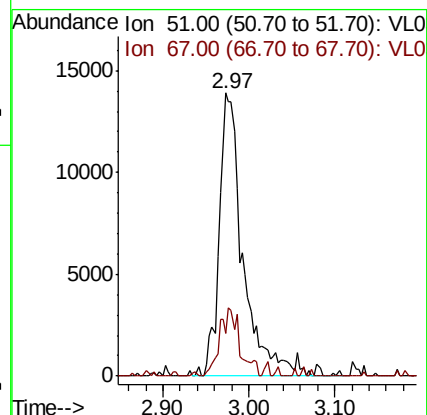
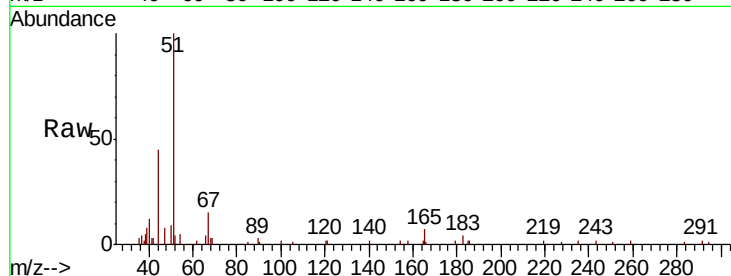
67 20.4 14.7 22.1

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#4

Chloromethane

Concen: 0.116 ppbv m

RT: 3.13 min Scan# 106

Delta R.T. 0.01 min

Lab File: VL036391.D

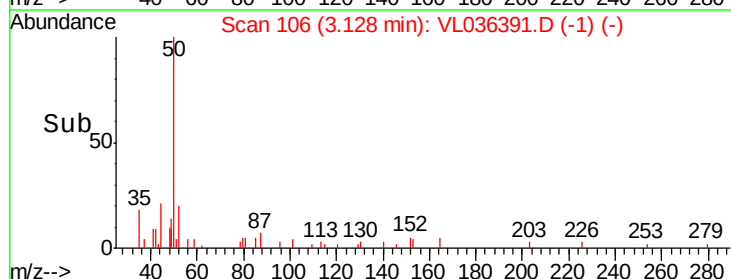
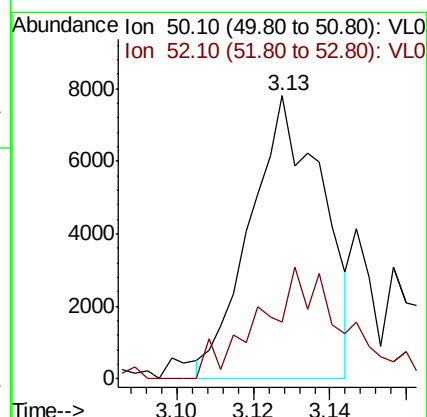
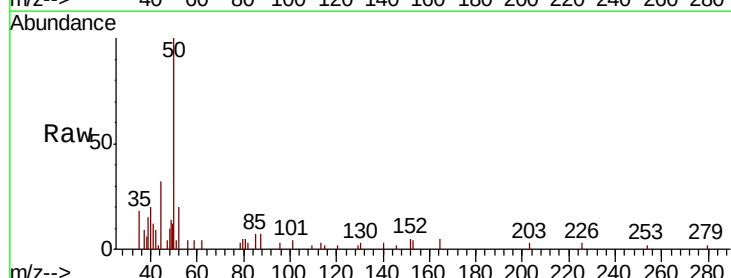
Acq: 25 Feb 2021 21:19

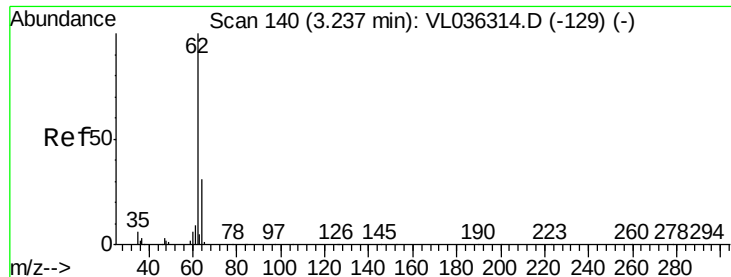
Tgt Ion: 50 Resp: 10219

Ion Ratio Lower Upper

50 100

52 20.2 27.0 40.4#





#5

Vinyl Chloride

Concen: 0.111 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

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LOD-MDL-AIR-01-QT1-2021

Tot Ion: 62 Resp: 9153

Ion Ratio Lower Upper

62 100

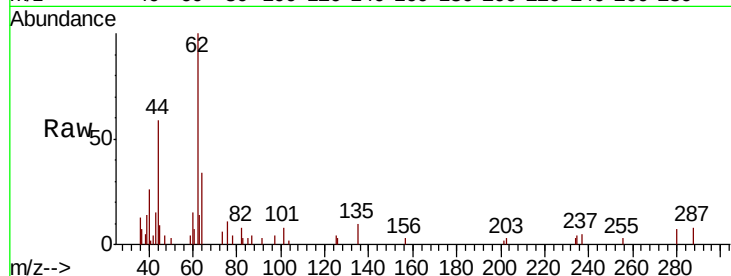
64 30.1 24.4 36.6

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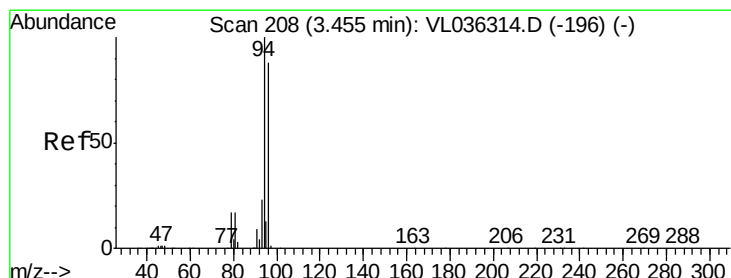
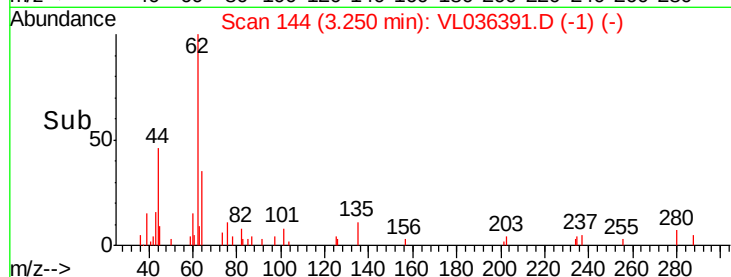
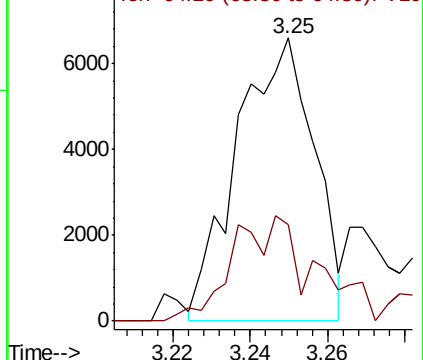
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.125 ppbv m

RT: 3.46 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL036391.D

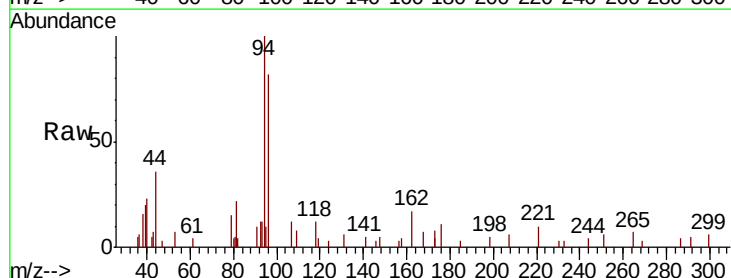
Acq: 25 Feb 2021 21:19

Tgt Ion: 94 Resp: 6098

Ion Ratio Lower Upper

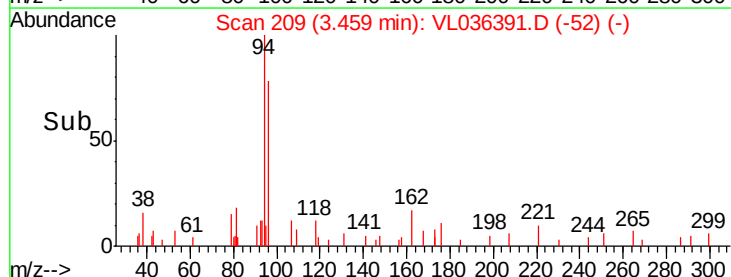
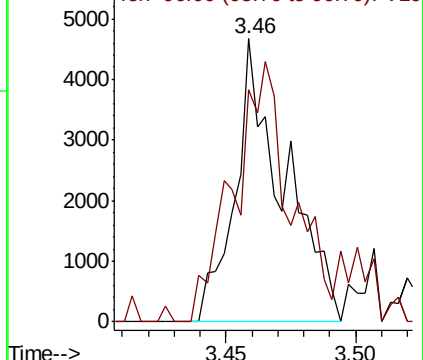
94 100

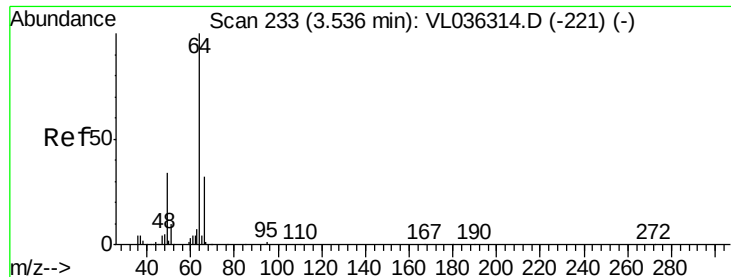
96 82.0 70.8 106.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.167 ppbv m

RT: 3.55 min Scan# 236

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

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ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion: 64 Resp: 4894

Ion Ratio Lower Upper

64 100

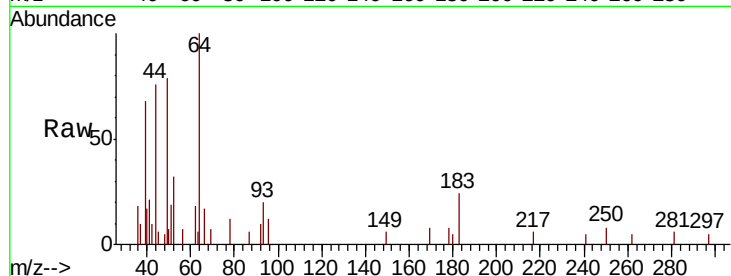
66 17.0 25.6 38.4#

Manual Integrations

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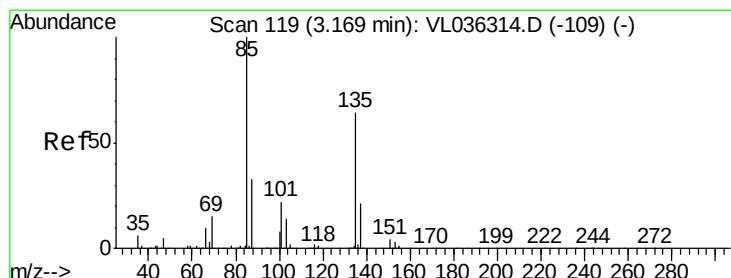
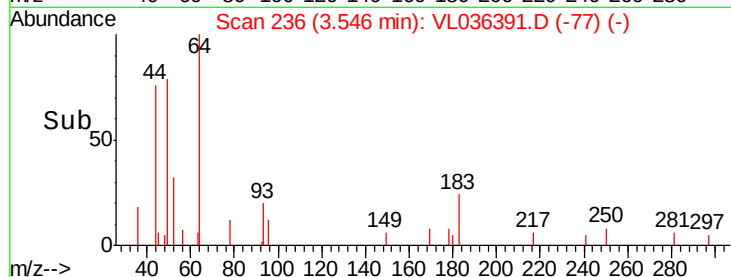
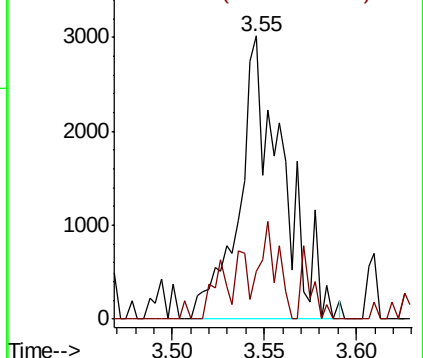
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.145 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036391.D

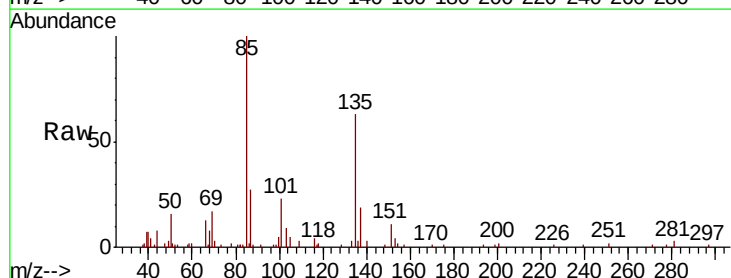
Acq: 25 Feb 2021 21:19

Tgt Ion: 85 Resp: 29084

Ion Ratio Lower Upper

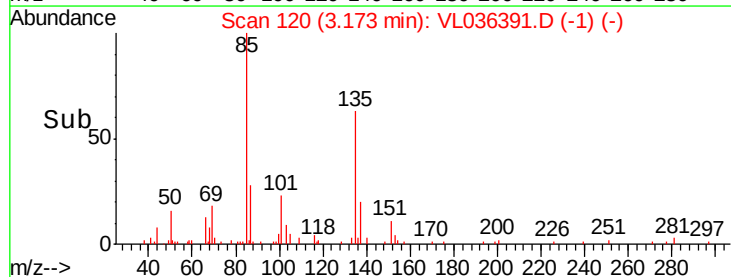
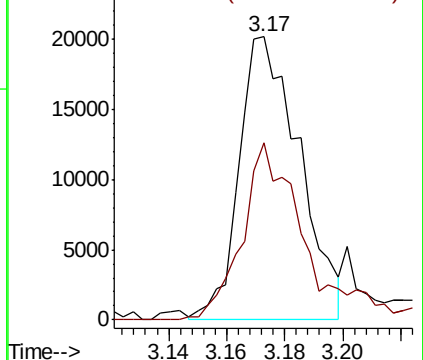
85 100

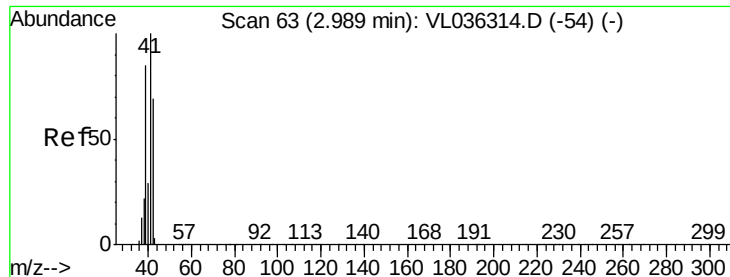
135 66.8 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





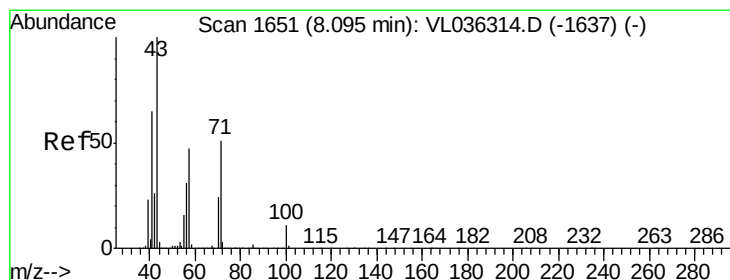
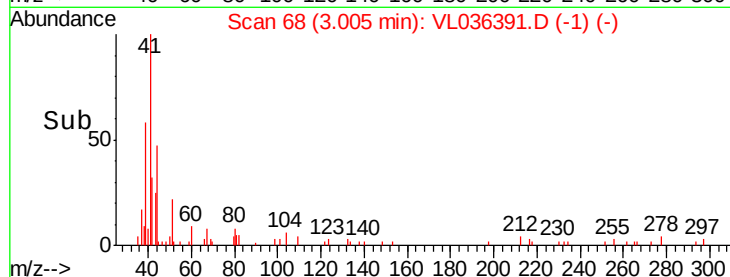
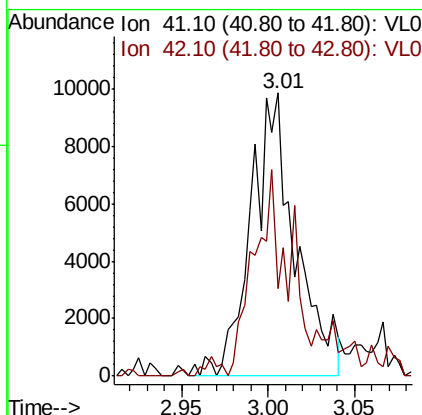
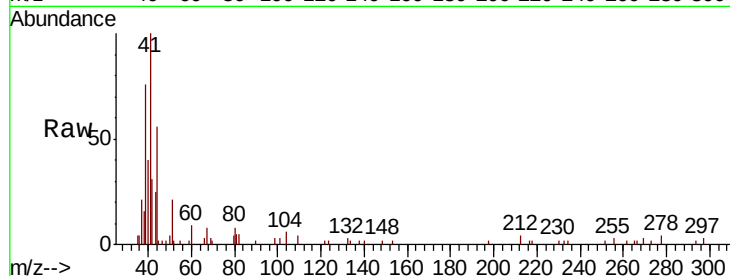
#9
Propene
Concen: 0.261 ppbv m
RT: 3.01 min Scan# 68
Delta R.T. 0.02 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion: 41 Resp: 17794
Ion Ratio Lower Upper
41 100
42 0.0 56.2 84.2#

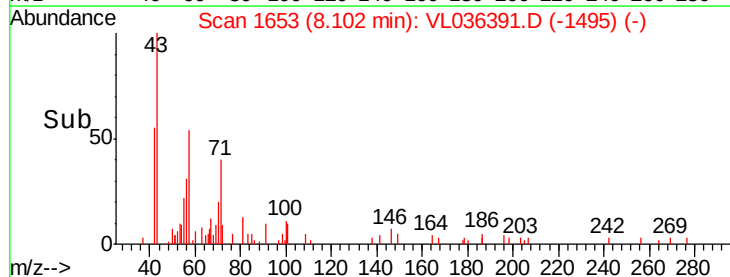
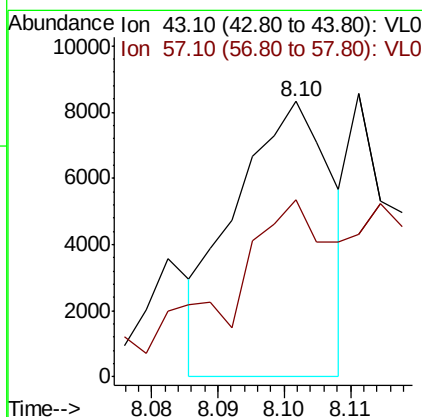
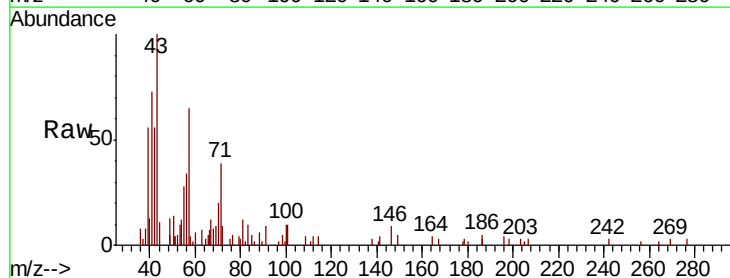
Manual Integrations
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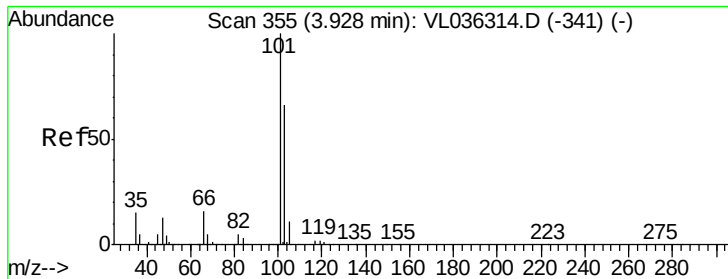
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#10
Heptane
Concen: 0.042 ppbv
RT: 8.10 min Scan# 1653
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion: 43 Resp: 8420
Ion Ratio Lower Upper
43 100
57 141.7 39.4 59.2#





#11

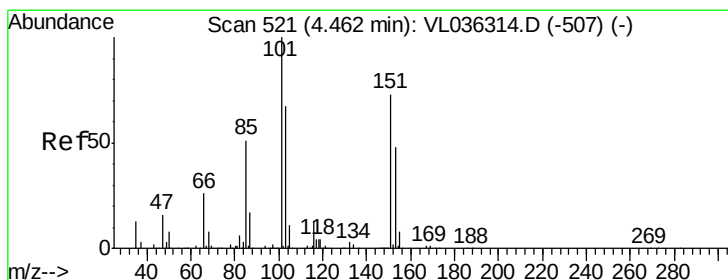
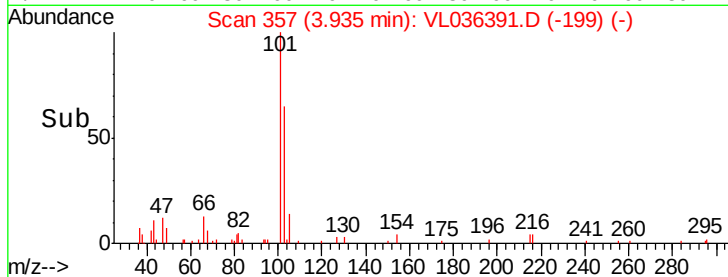
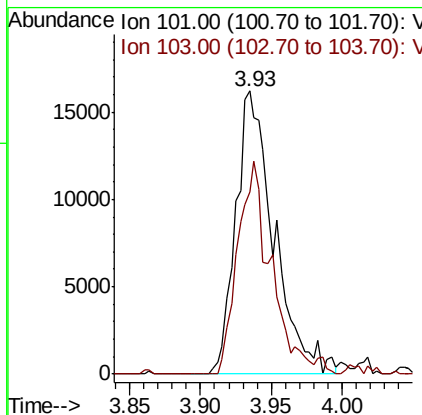
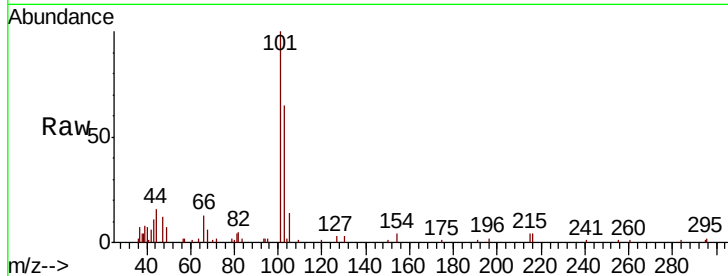
Trichlorofluoromethane
Concen: 0.141 ppbv m
RT: 3.93 min Scan# 357
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.9	79.3

Manual Integrations
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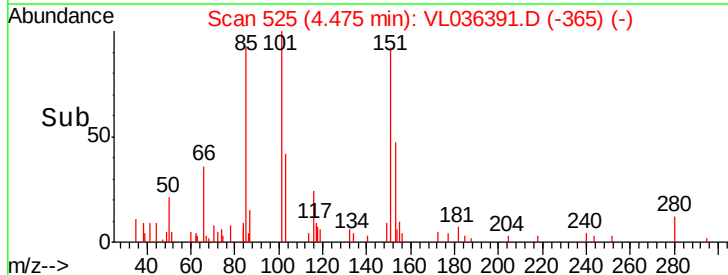
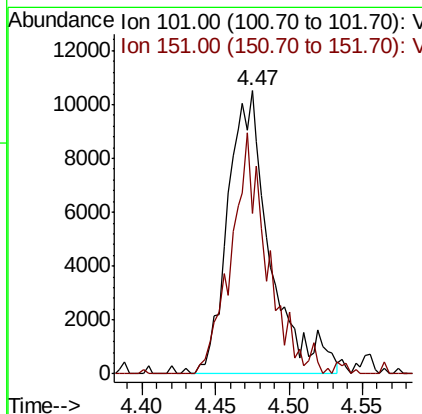
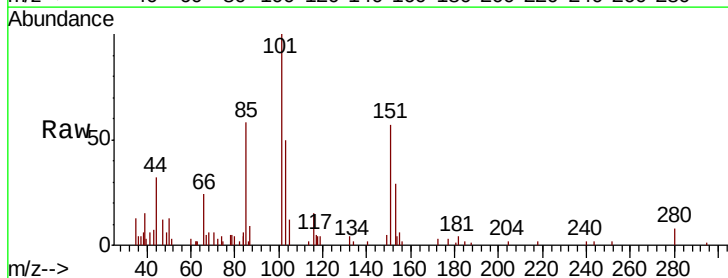
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3/1/2021 10:03:14 AM

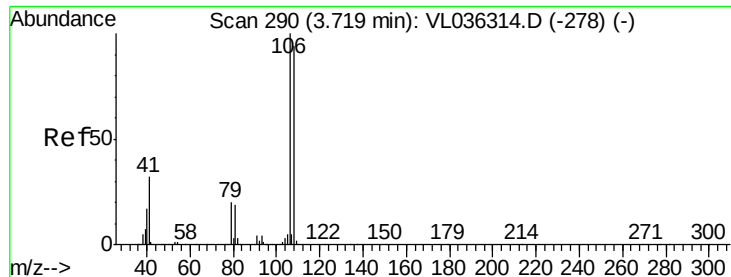


#12

1,1,2-Trichlorotrifluoroethane
Concen: 0.157 ppbv m
RT: 4.47 min Scan# 525
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
101	100		
151	0.0	58.2	87.4#





#14

Bromoethene

Concen: 0.136 ppbv m

RT: 3.73 min Scan# 292

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

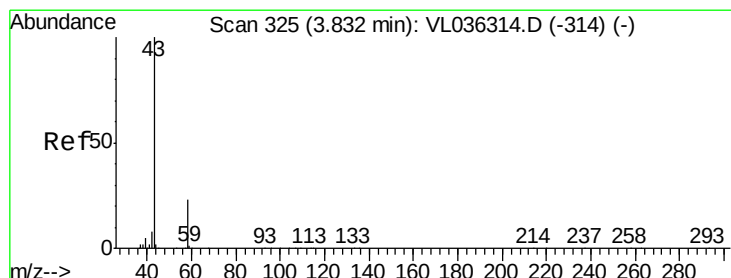
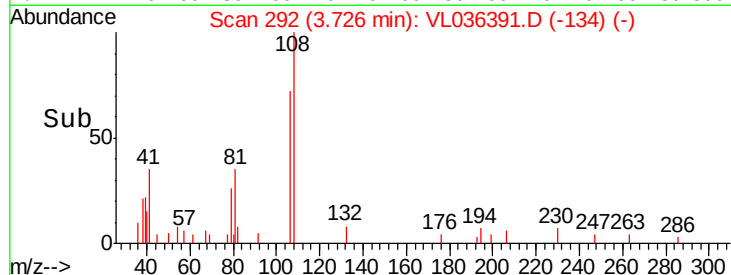
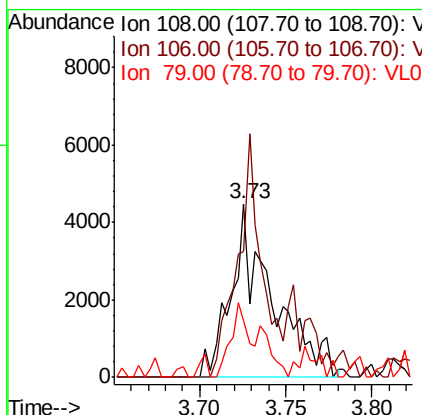
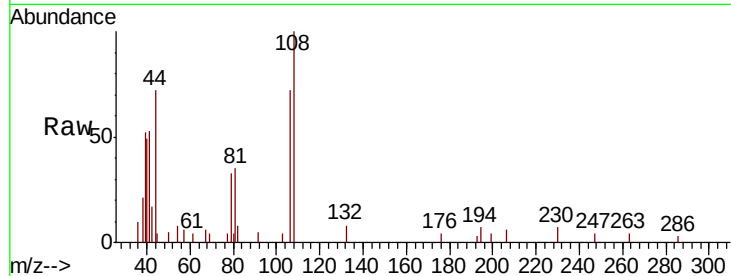
ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion:	108	Resp:	7575
Ion Ratio	Lower	Upper	
108	100		
106	0.0	89.8	134.8#
79	40.9	17.1	25.7#

Manual Integrations
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MMDadoda
3/1/2021 10:03:14 AM



#15

Acetone

Concen: 0.223 ppbv m

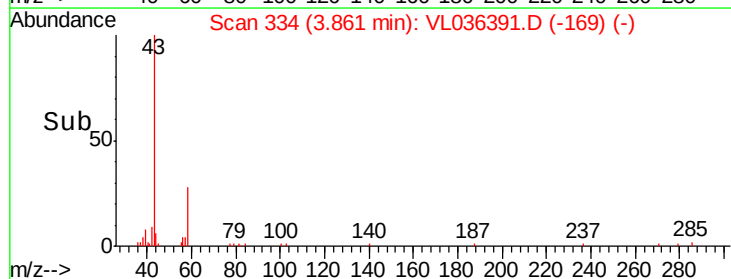
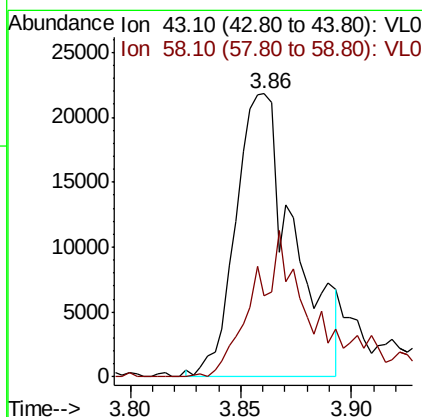
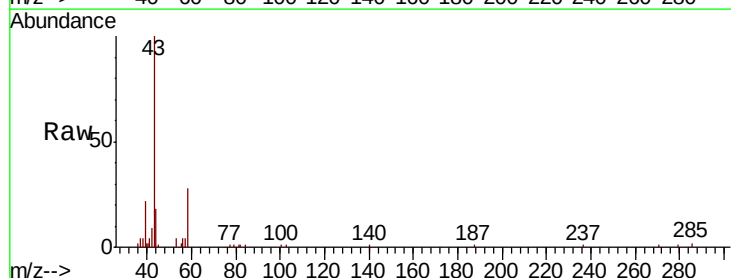
RT: 3.86 min Scan# 334

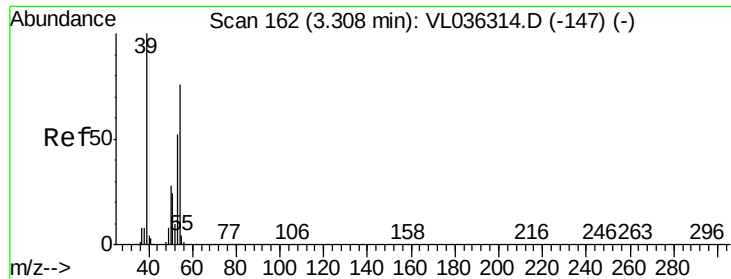
Delta R.T. 0.03 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion:	43	Resp:	40120
Ion Ratio	Lower	Upper	
43	100		
58	0.0	20.3	30.5#





#16

1,3-Butadiene

Concen: 0.194 ppbv m

RT: 3.31 min Scan# 164

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion: 39 Resp: 16735

Ion Ratio Lower Upper

39 100

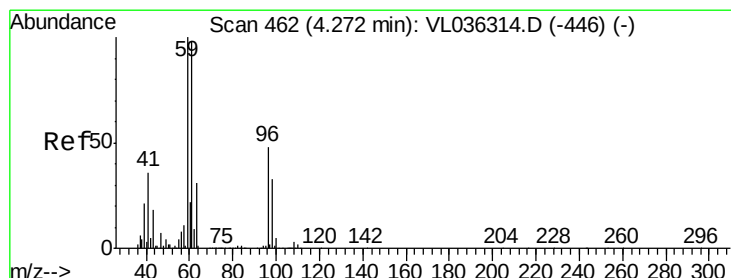
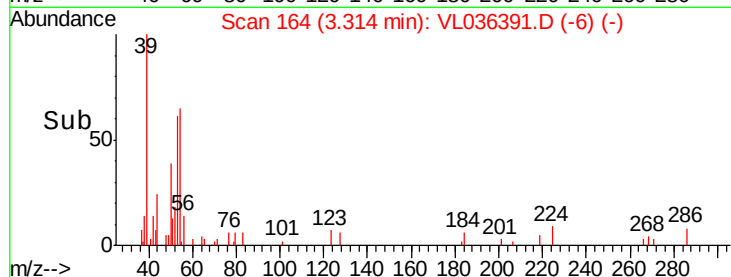
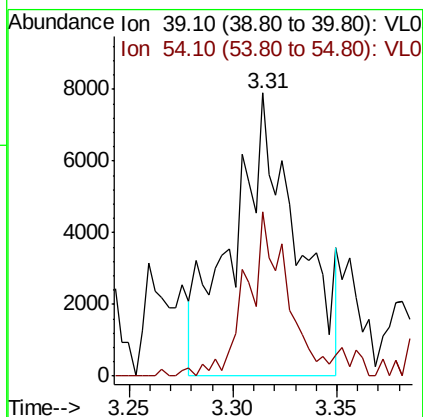
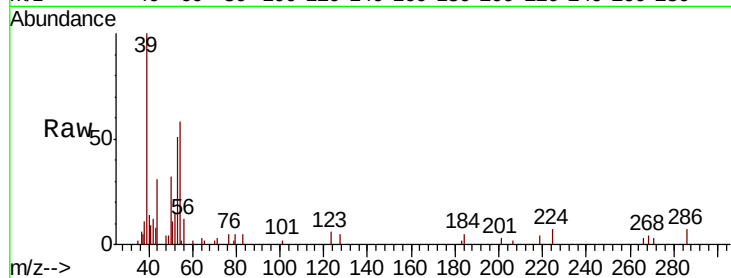
54 40.3 64.4 96.6#

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 0.093 ppbv m

RT: 4.31 min Scan# 473

Delta R.T. 0.04 min

Lab File: VL036391.D

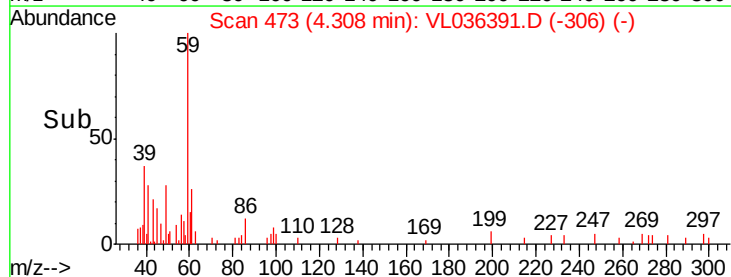
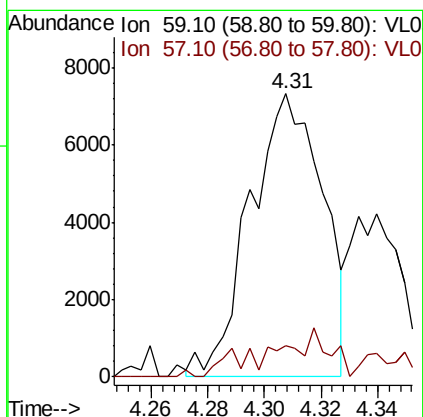
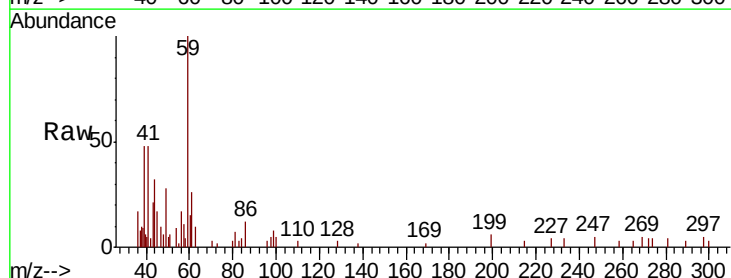
Acq: 25 Feb 2021 21:19

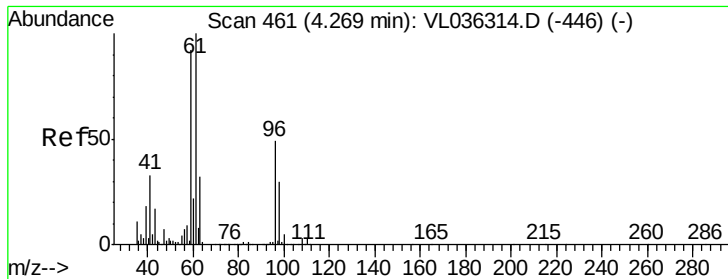
Tgt Ion: 59 Resp: 13058

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#





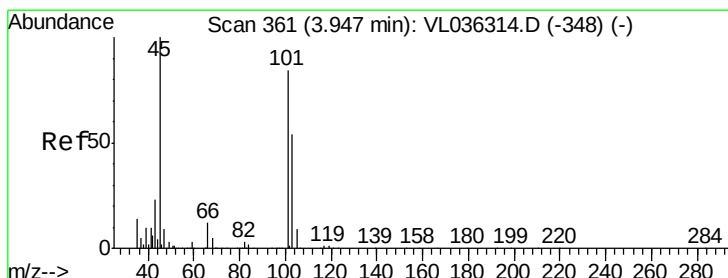
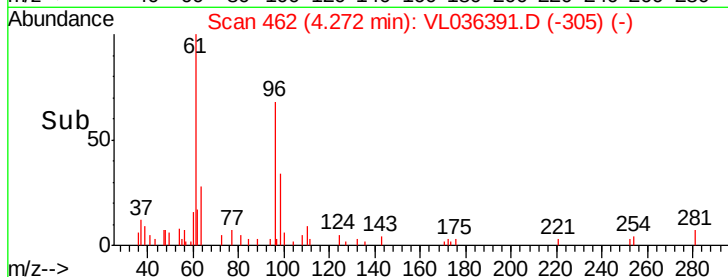
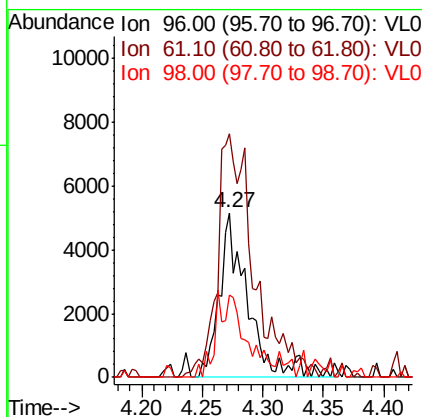
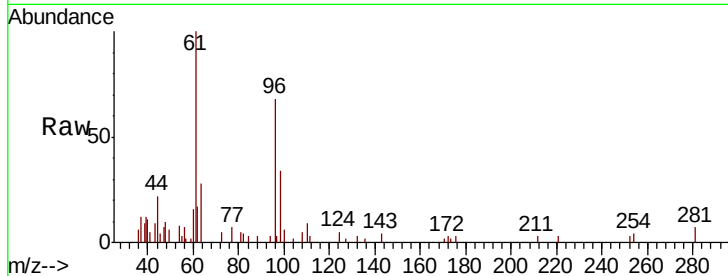
#18
 1,1-Dichloroethene
 Concen: 0.142 ppbv m
 RT: 4.27 min Scan# 462
 Delta R.T. 0.00 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.8	162.5	243.7#
98	50.4	48.5	72.7

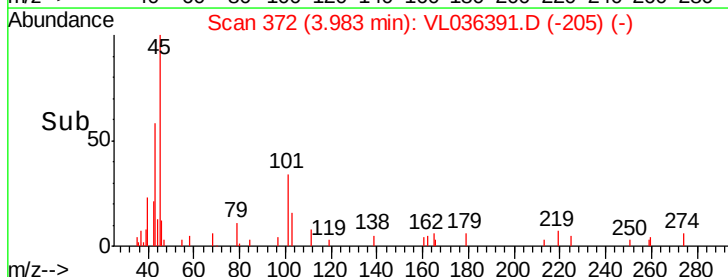
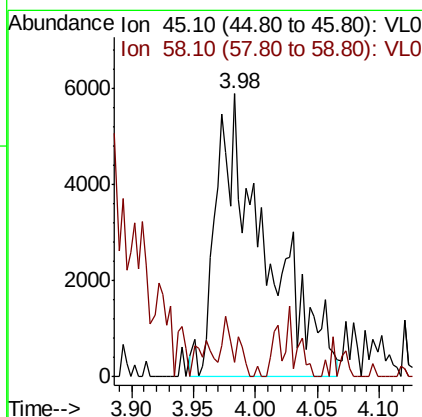
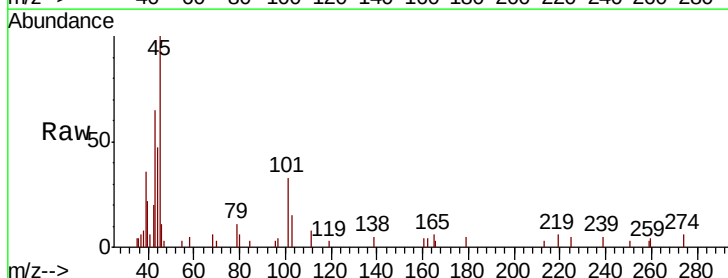
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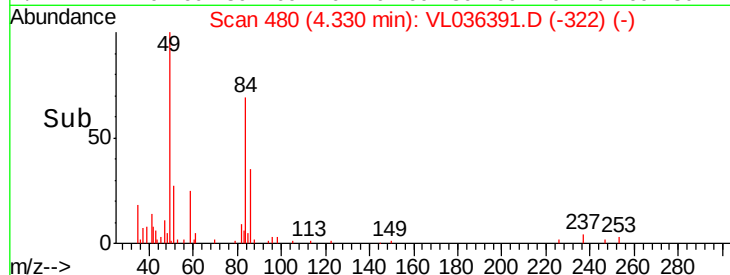
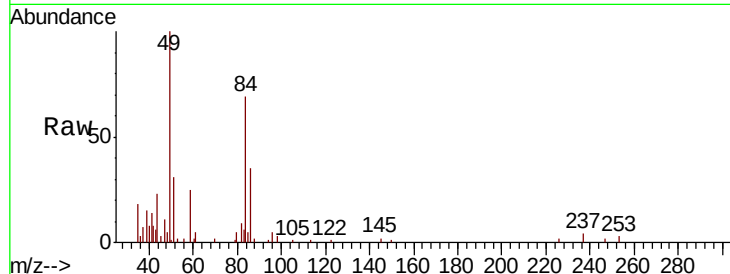
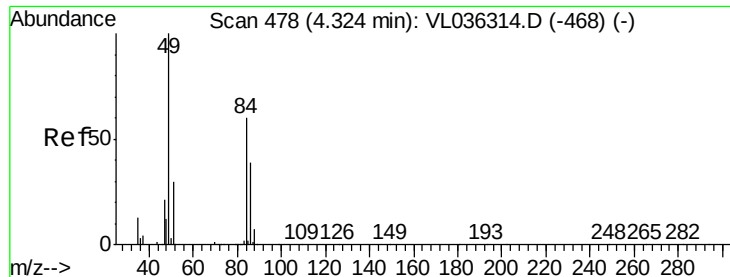
MMDadoda
 3/1/2021 10:03:14 AM



#19
 Isopropyl Alcohol
 Concen: 0.164 ppbv m
 RT: 3.98 min Scan# 372
 Delta R.T. 0.04 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.9	2.9#





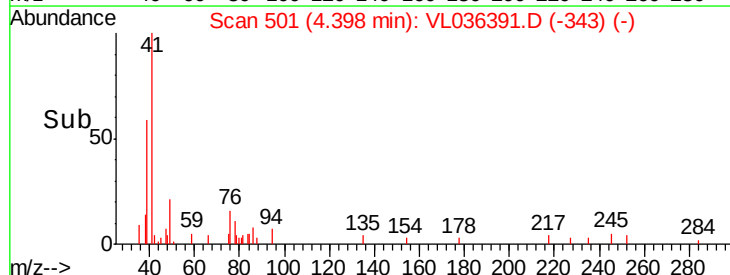
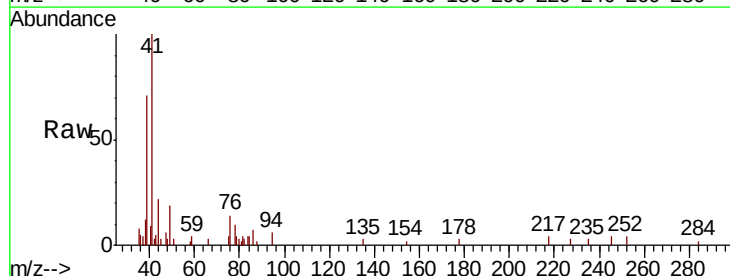
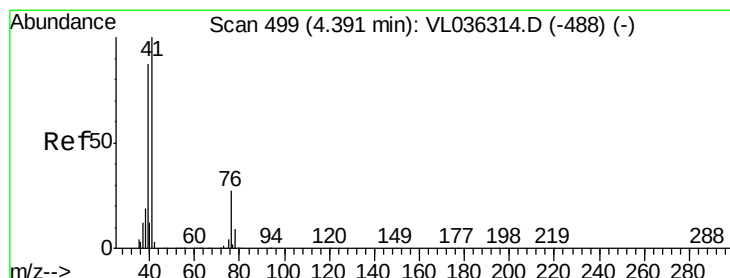
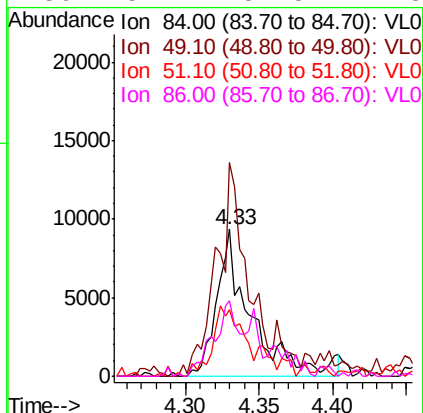
#20
Methylene Chloride
Concen: 0.260 ppbv m
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tot Ion	84	Resp	15116
Ion Ratio	Lower	Upper	
84	100		
49	145.5	133.8	200.8
51	45.1	41.4	62.0
86	51.4	51.5	77.3#

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

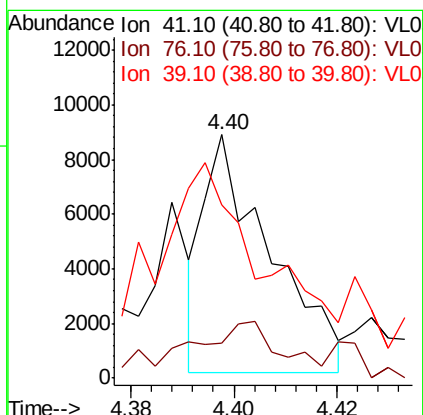
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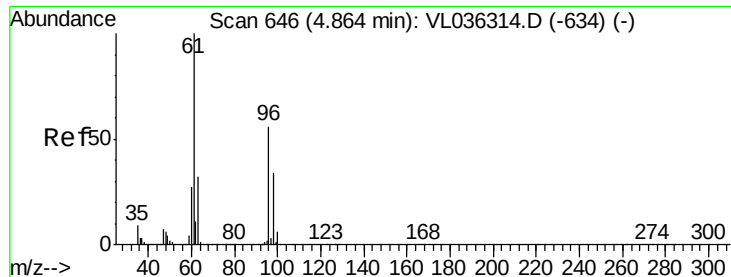
MMDadoda
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#21
Allyl Chloride
Concen: 0.078 ppbv
RT: 4.40 min Scan# 501
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	41	Resp	7811
Ion Ratio	Lower	Upper	
41	100		
76	41.7	22.0	33.0#
39	182.8	70.2	105.2#





#22

trans-1,2-Dichloroethene

Concen: 0.161 ppbv m

RT: 4.87 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

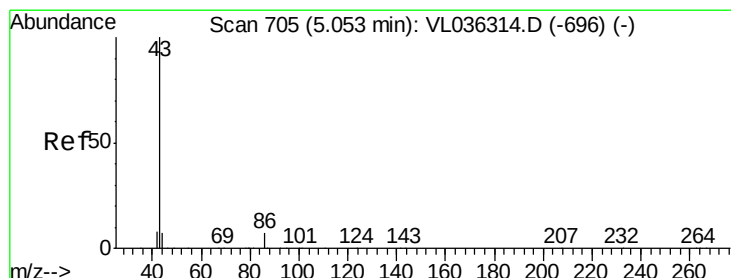
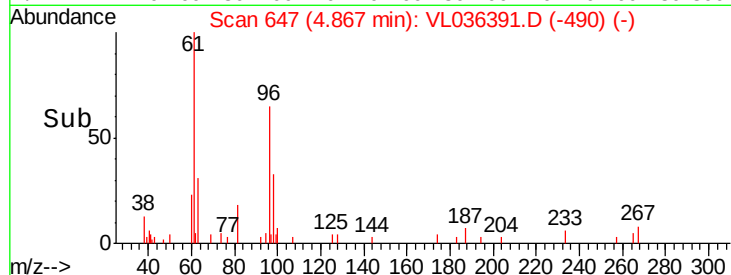
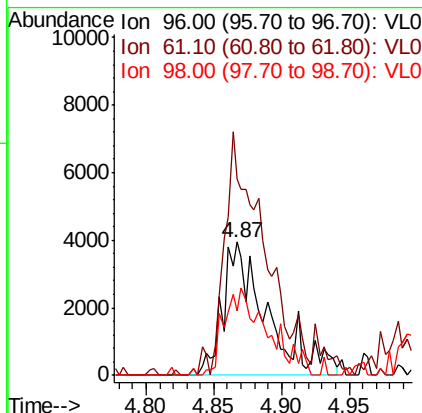
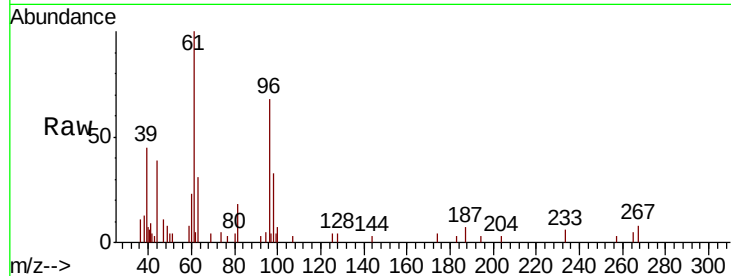
ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion:	96	Resp:	8875
Ion	Ratio	Lower	Upper
96	100		
61	147.3	143.7	215.5
98	48.5	48.5	72.7

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3/1/2021 10:03:14 AM



#23

Vinyl Acetate

Concen: 0.146 ppbv m

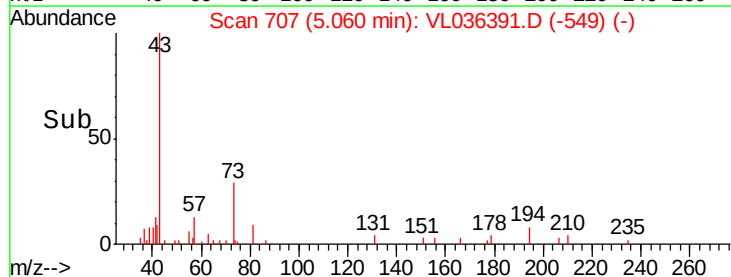
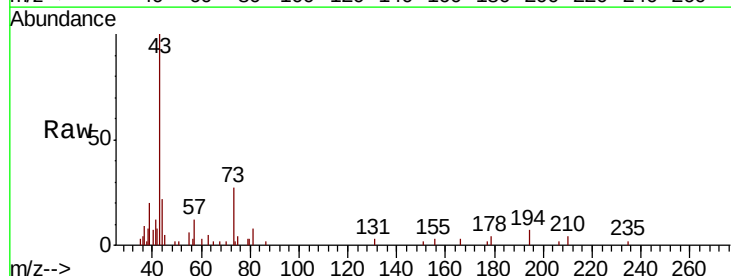
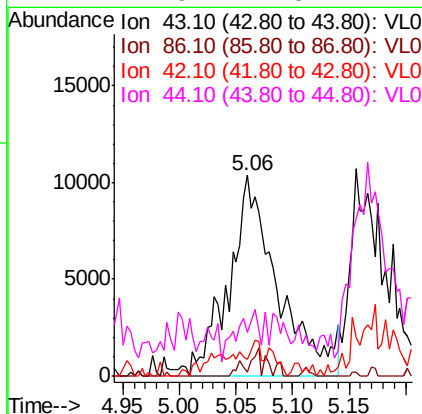
RT: 5.06 min Scan# 707

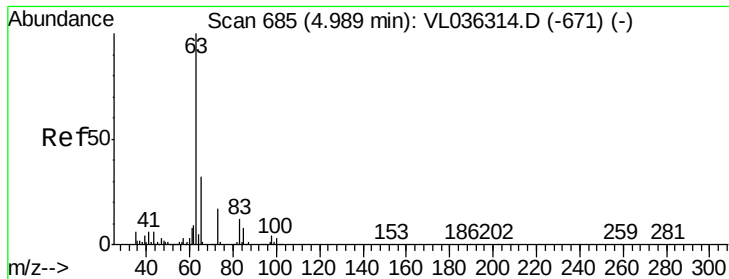
Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion:	43	Resp:	30899
Ion	Ratio	Lower	Upper
43	100		
86	1.7	4.8	7.2#
42	8.3	7.4	11.0
44	21.9	4.8	7.2#





#24

1,1-Dichloroethane

Concen: 0.152 ppbv m

RT: 4.99 min Scan# 685

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

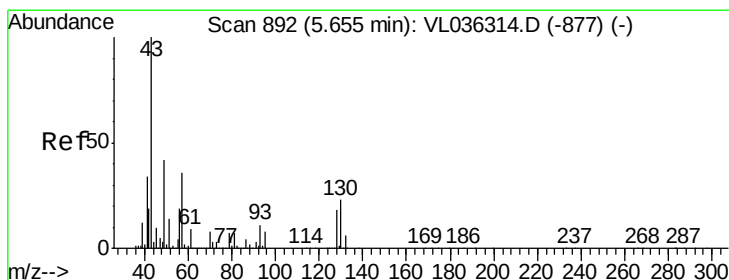
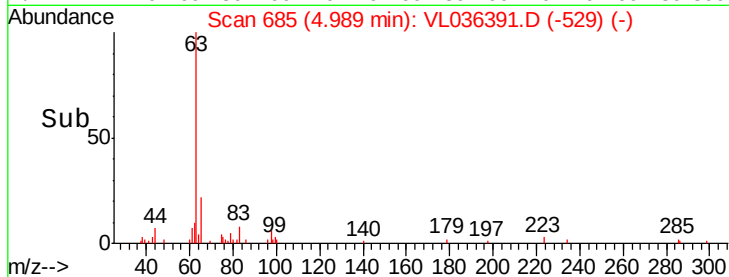
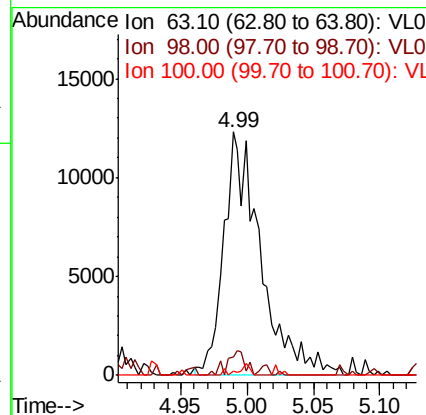
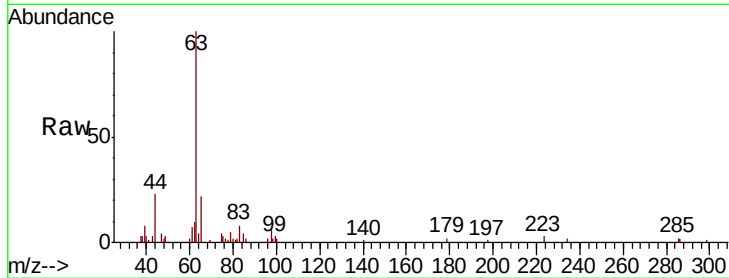
ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion:	63	Resp:	23767
Ion Ratio	Lower	Upper	
63	100		
98	6.1	2.0	6.0#
100	1.8	1.5	4.4

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#25

Ethyl Acetate

Concen: 0.122 ppbv m

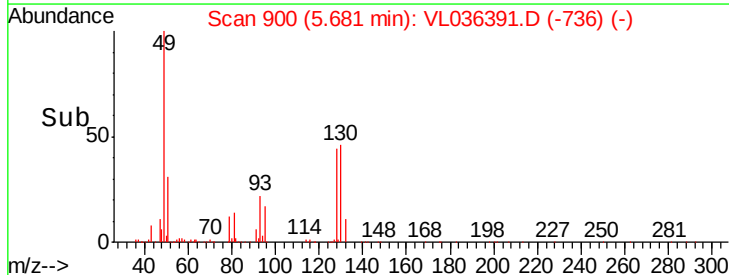
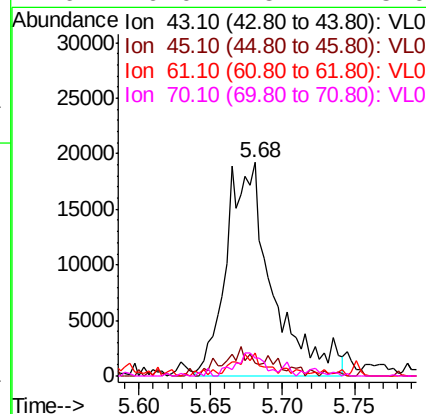
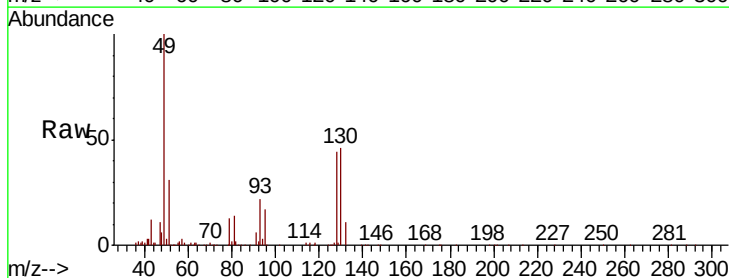
RT: 5.68 min Scan# 900

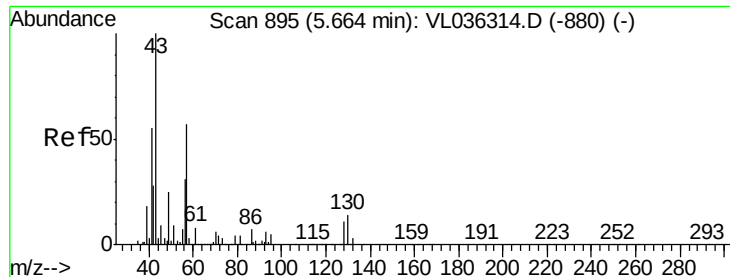
Delta R.T. 0.03 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion:	43	Resp:	42574
Ion Ratio	Lower	Upper	
43	100		
45	13.6	8.3	12.5#
61	0.0	7.3	10.9#
70	0.0	5.4	8.0#





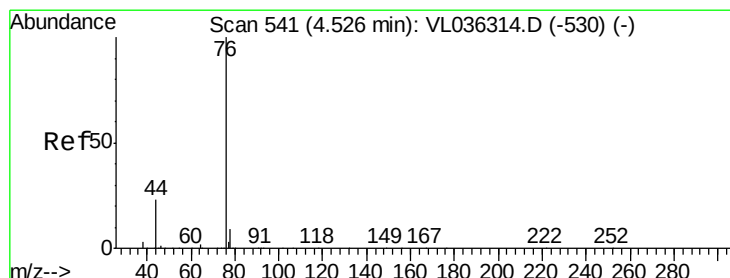
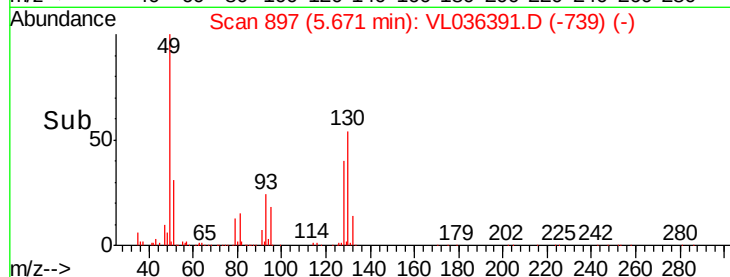
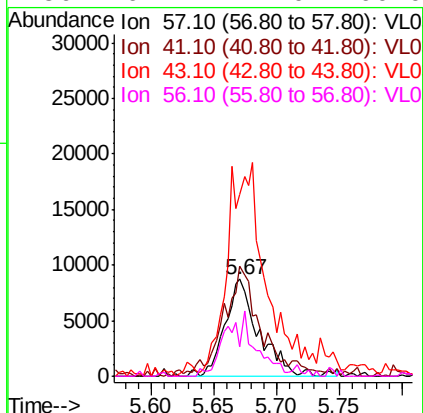
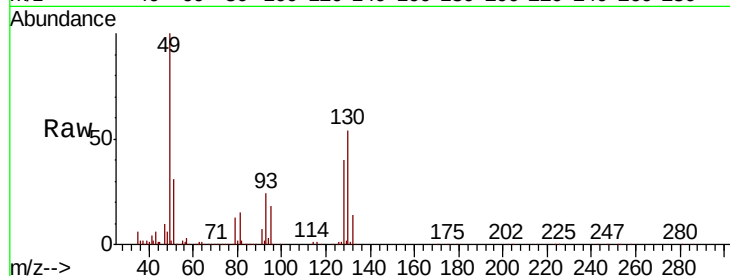
#26
Hexane
Concen: 0.116 ppbv m
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion	57	Resp	16550
Ion	Ratio	Lower	Upper
57	100		
41	129.3	81.7	122.5#
43	271.5	199.1	298.7
56	62.4	44.0	66.0

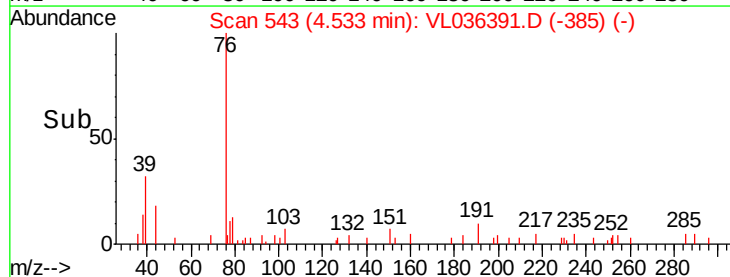
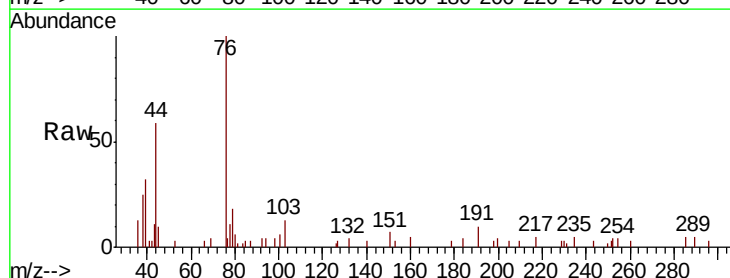
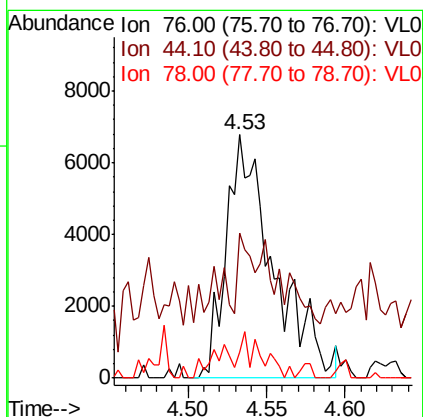
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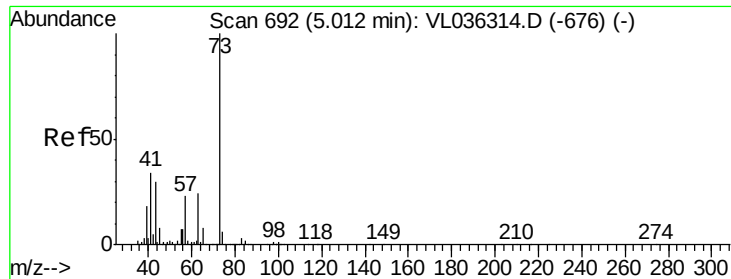
MMDadoda
3/1/2021 10:03:14 AM



#27
Carbon Disulfide
Concen: 0.107 ppbv m
RT: 4.53 min Scan# 543
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	76	Resp	14072
Ion	Ratio	Lower	Upper
76	100		
44	44.4	18.4	27.6#
78	15.8	8.0	12.0#





#28

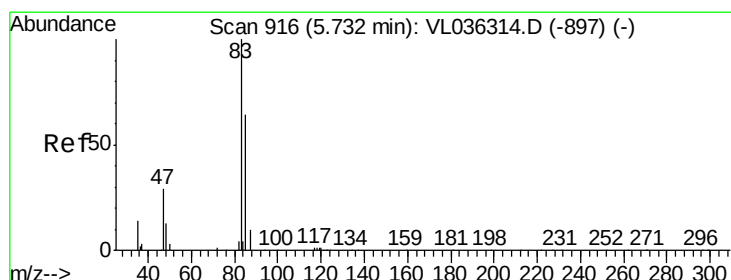
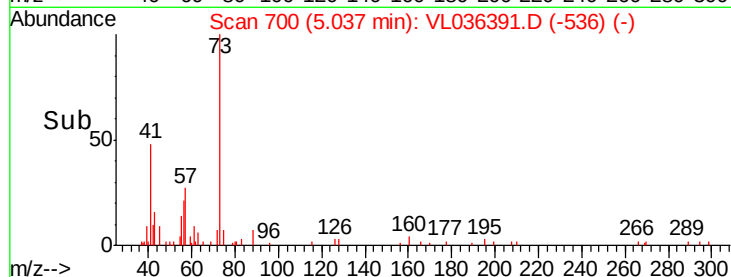
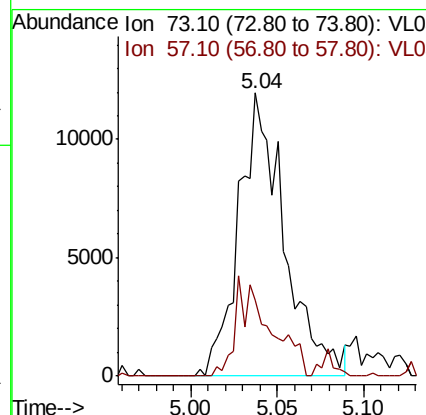
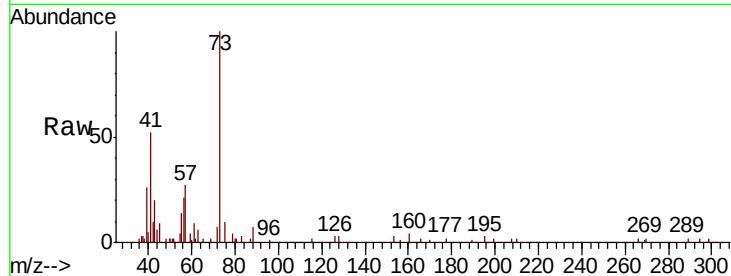
Methyl tert-Butyl Ether
 Concen: 0.117 ppbv m
 RT: 5.04 min Scan# 700
 Delta R.T. 0.03 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
73	100		
57	28.8	19.2	28.8

Manual Integrations
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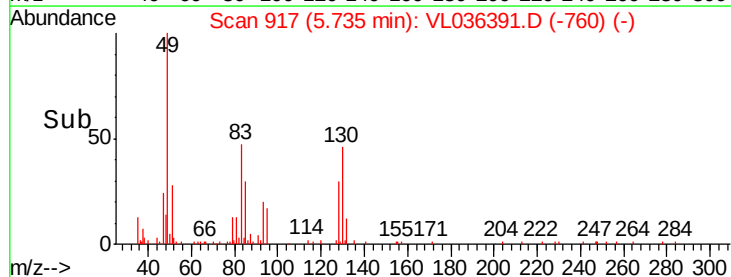
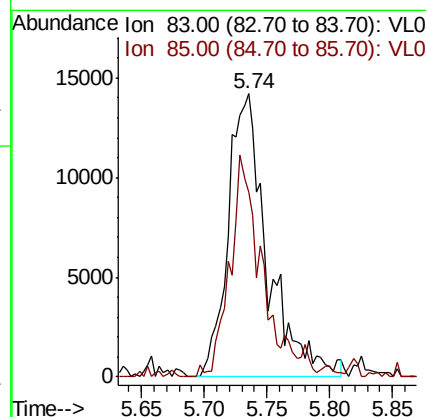
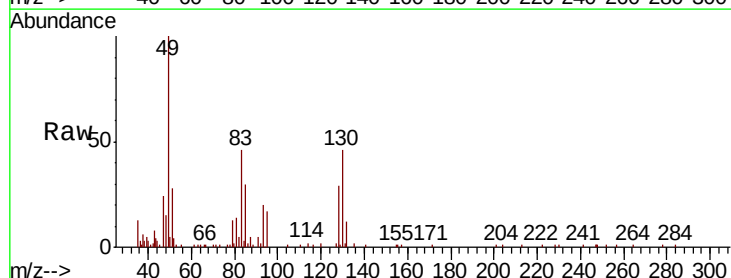
MMDadoda
 3/1/2021 10:03:14 AM

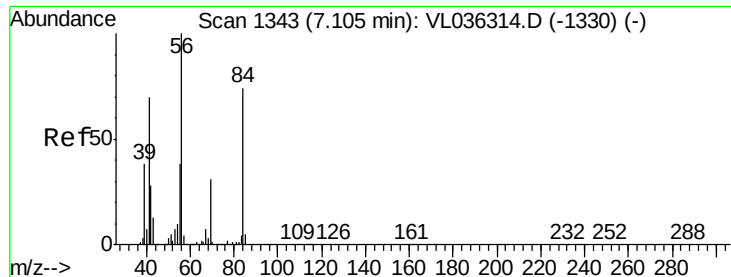


#29

Chloroform
 Concen: 0.135 ppbv m
 RT: 5.74 min Scan# 917
 Delta R.T. 0.00 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.4	77.2





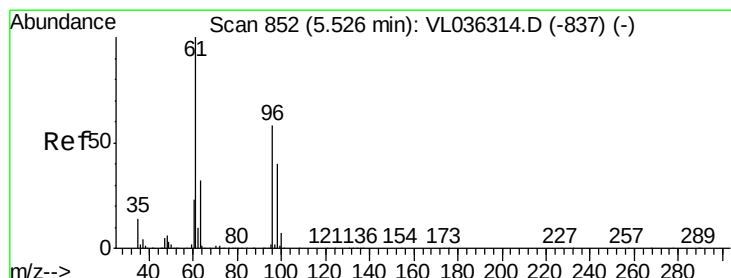
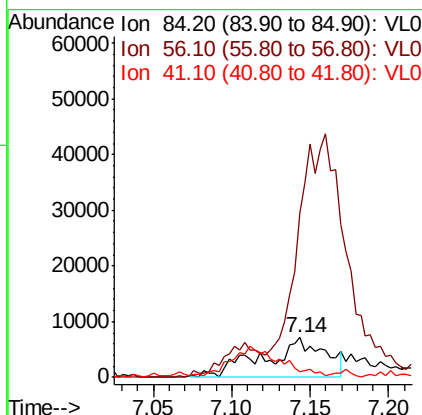
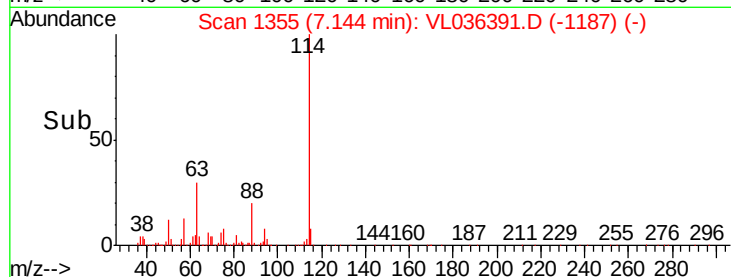
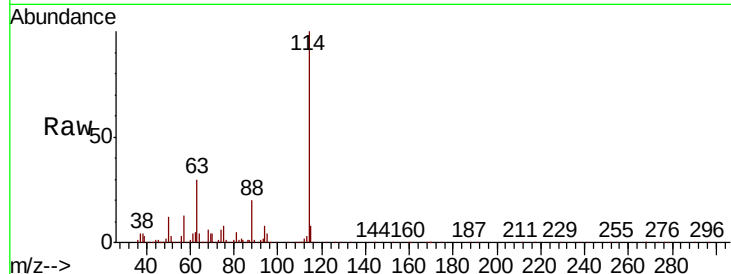
#30
Cyclohexane
Concen: 0.160 ppbv m
RT: 7.14 min Scan# 1355
Delta R.T. 0.04 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	120.2	180.4#
41	71.6	79.7	119.5#

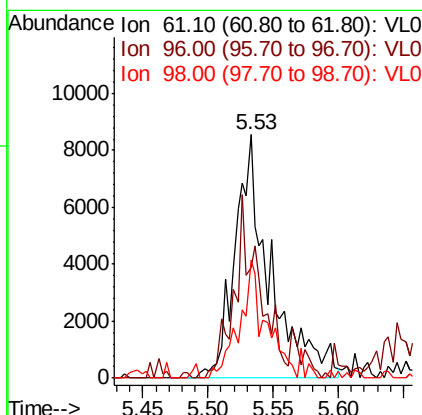
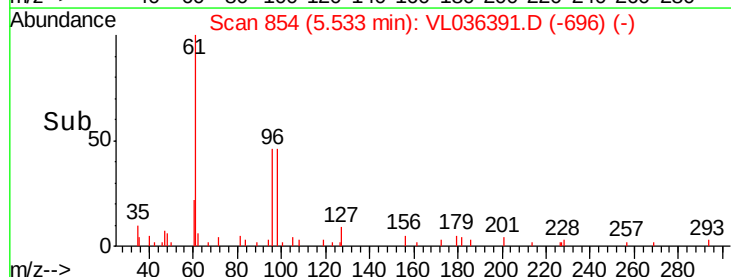
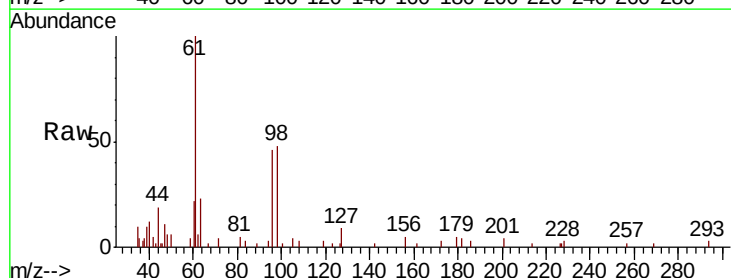
Manual Integrations
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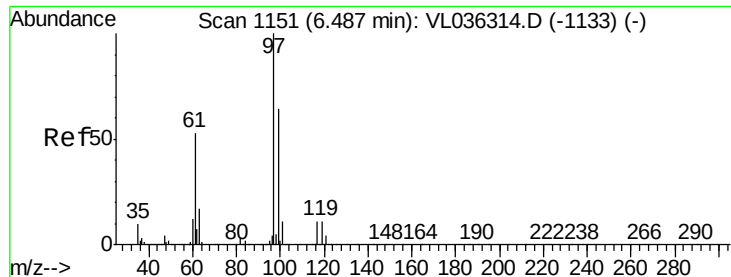
MMDadoda
3/1/2021 10:03:14 AM



#31
cis-1,2-Dichloroethene
Concen: 0.113 ppbv m
RT: 5.53 min Scan# 854
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
61	100		
96	45.6	46.0	69.0#
98	48.3	31.9	47.9#





#32

1,1,1-Trichloroethane

Concen: 0.103 ppbv

RT: 6.49 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

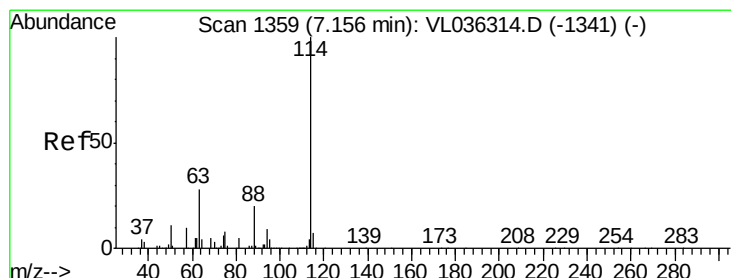
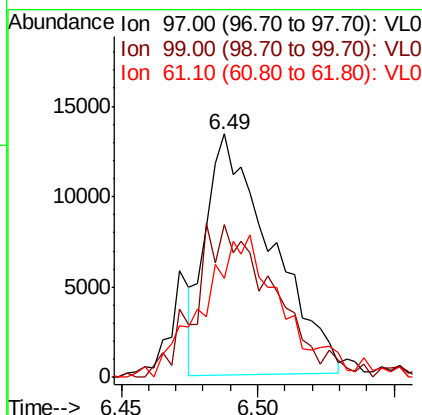
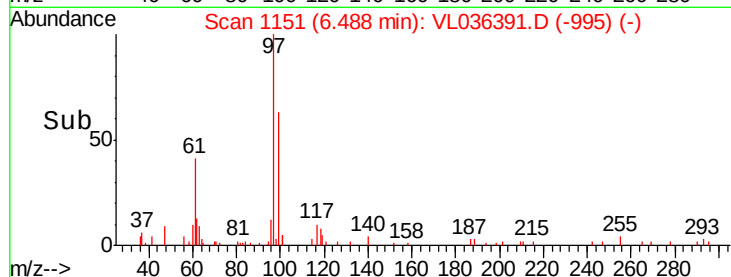
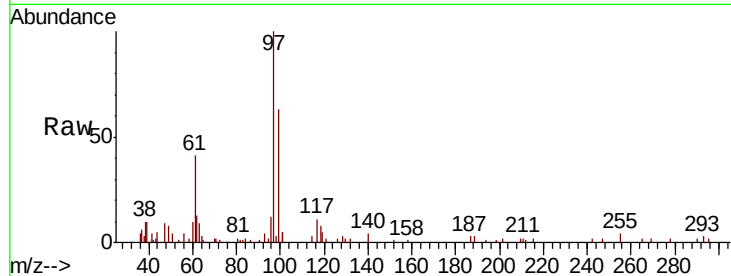
ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion:	97	Resp:	22201
Ion Ratio	Lower	Upper	
97	100		
99	78.8	52.2	78.4#
61	74.8	43.3	64.9#

Manual Integrations
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3/1/2021 10:03:14 AM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

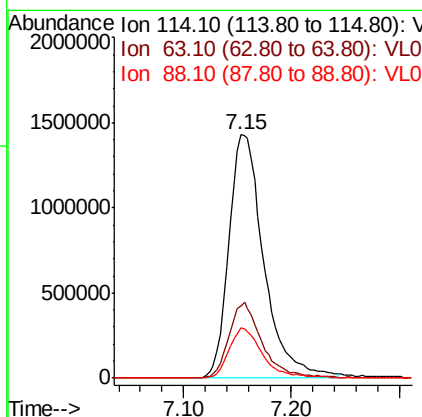
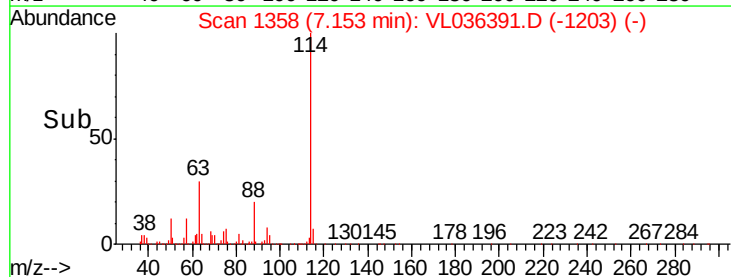
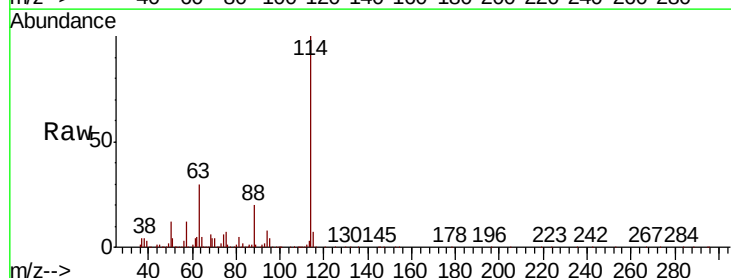
RT: 7.15 min Scan# 1358

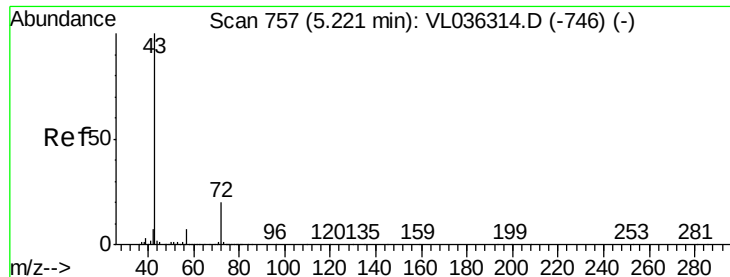
Delta R.T. -0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion:	114	Resp:	3234664
Ion Ratio	Lower	Upper	
114	100		
63	29.7	24.1	36.1
88	19.9	16.0	24.0





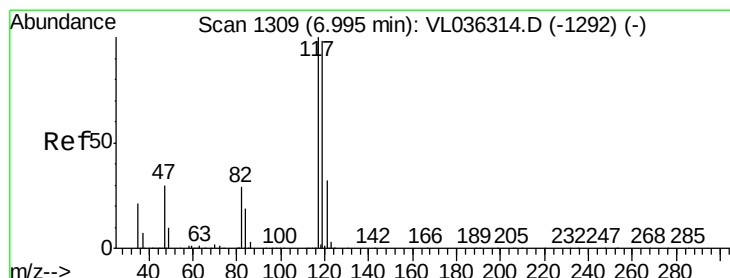
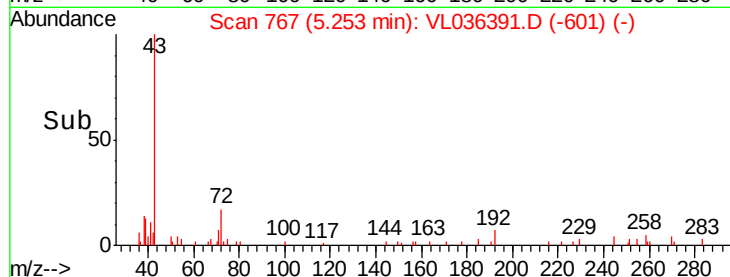
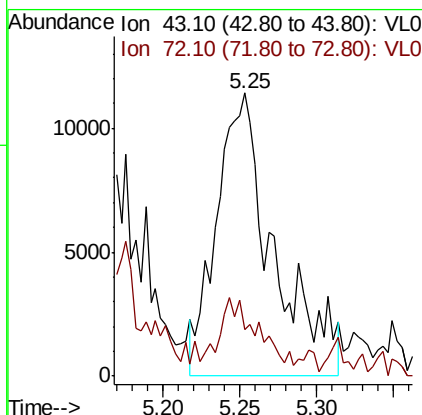
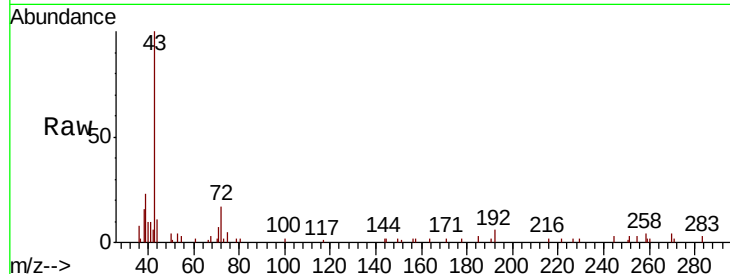
#34
2-Butanone
Concen: 0.136 ppbv m
RT: 5.25 min Scan# 767
Delta R.T. 0.03 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion	43	Resp	29272
Ion Ratio	100	Lower	Upper
72	0.0	16.7	25.1#

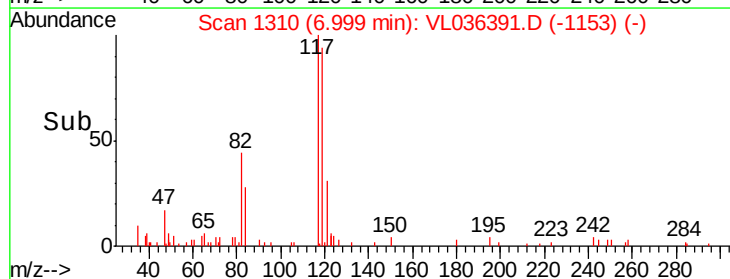
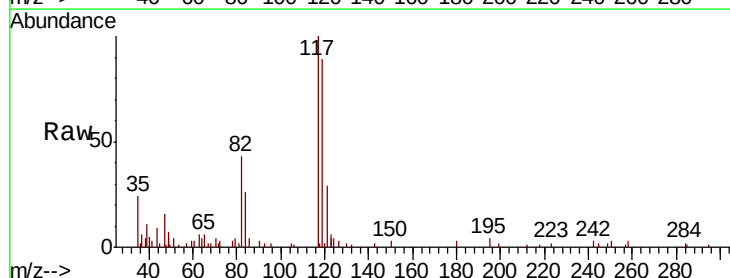
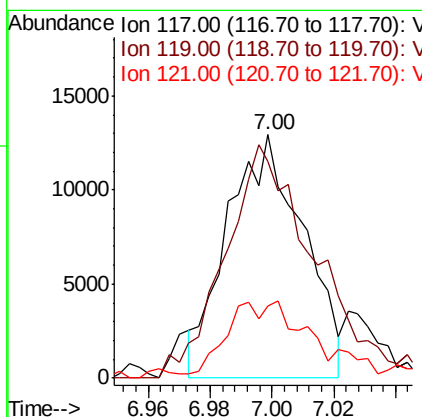
Manual Integrations
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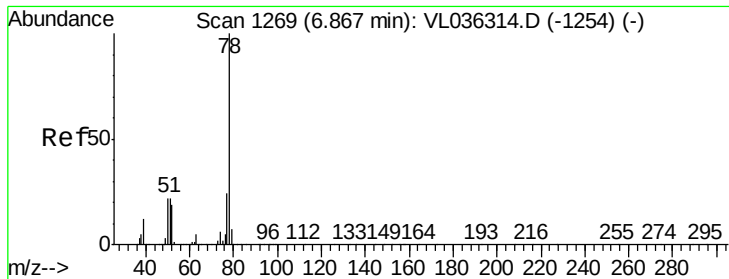
MMDadoda
3/1/2021 10:03:14 AM



#35
Carbon Tetrachloride
Concen: 0.102 ppbv
RT: 7.00 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	117	Resp	22111
Ion Ratio	100	Lower	Upper
119	90.1	78.1	117.1
121	33.3	25.8	38.8





#36

Benzene

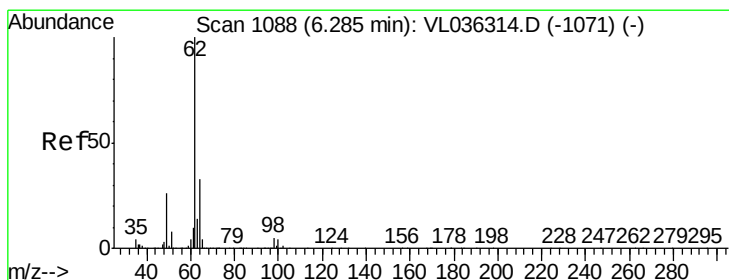
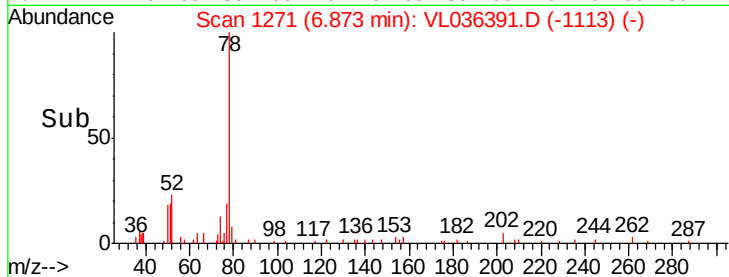
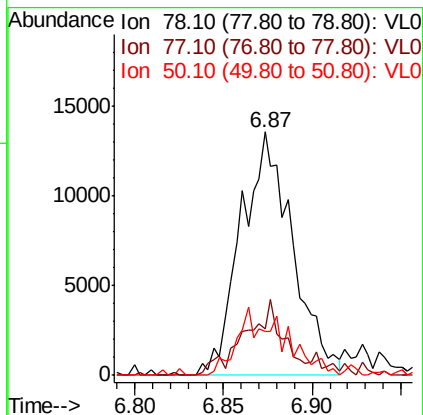
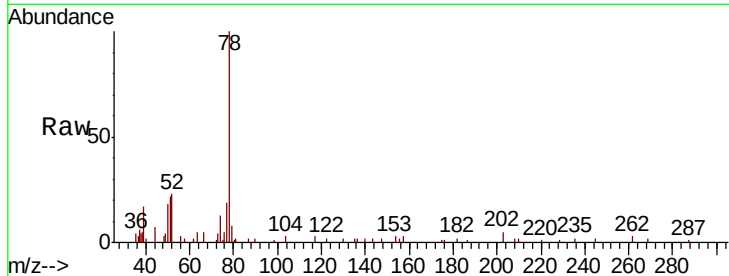
Concen: 0.100 ppbv m
RT: 6.87 min Scan# 1271
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.3	18.9	28.3
50	18.0	17.3	25.9

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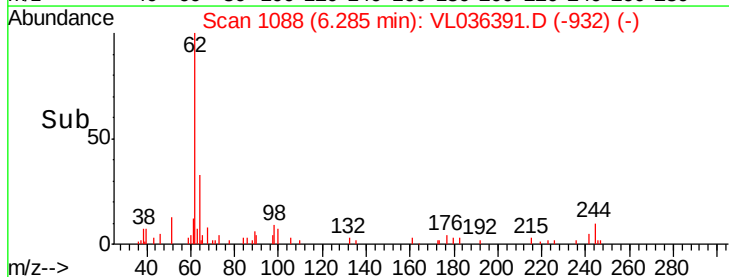
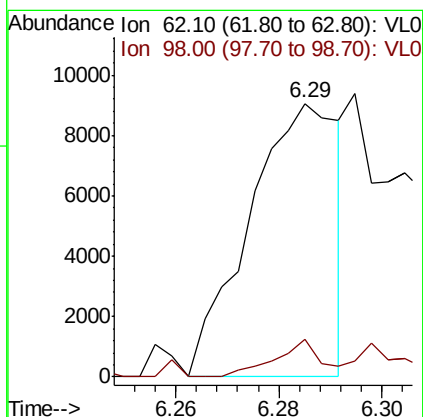
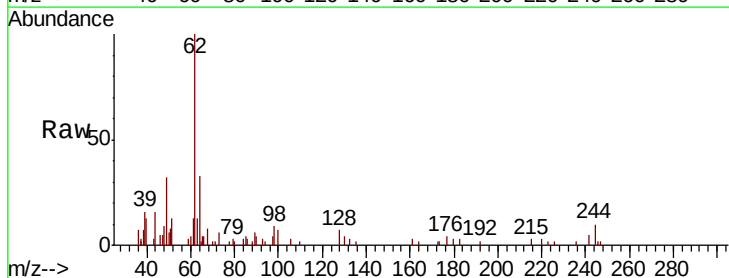


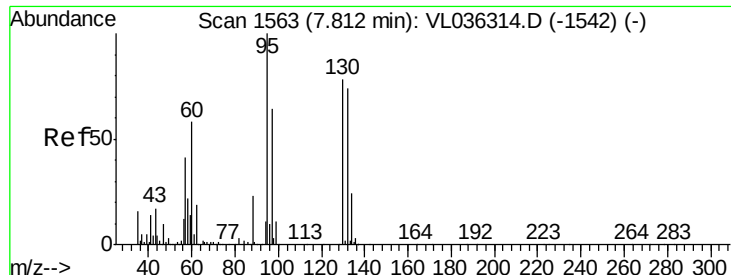
#37

1,2-Dichloroethane

Concen: 0.064 ppbv
RT: 6.29 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
62	100		
98	15.4	4.5	6.7#





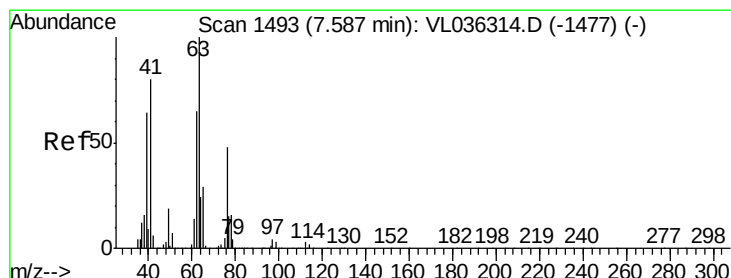
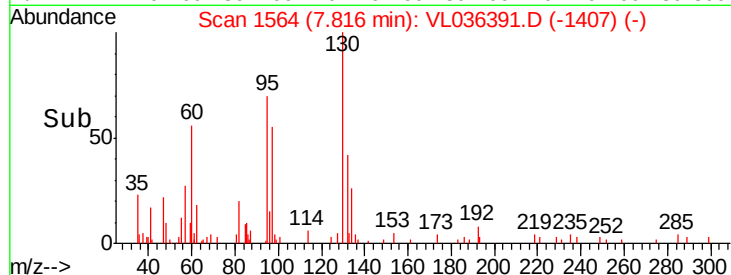
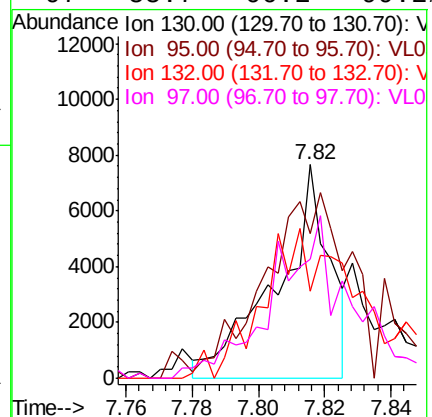
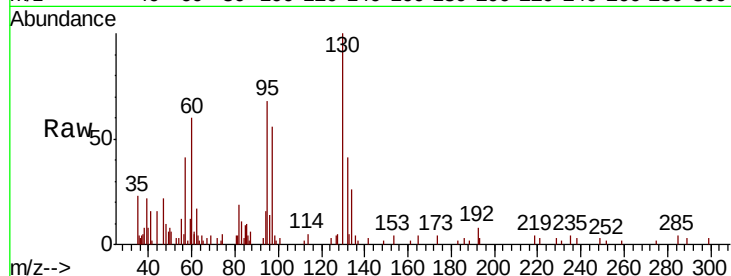
#38
 Trichloroethene
 Concen: 0.086 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
130	100		
95	71.1	102.8	154.2#
132	42.2	75.7	113.5#
97	55.7	66.2	99.2#

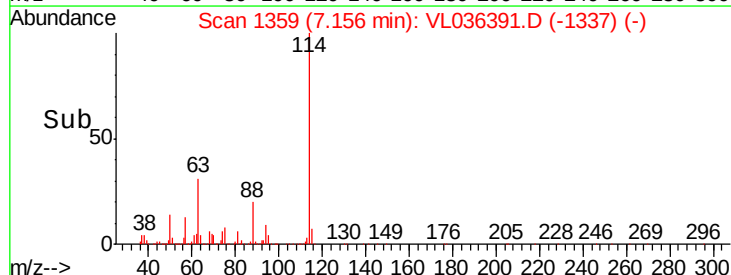
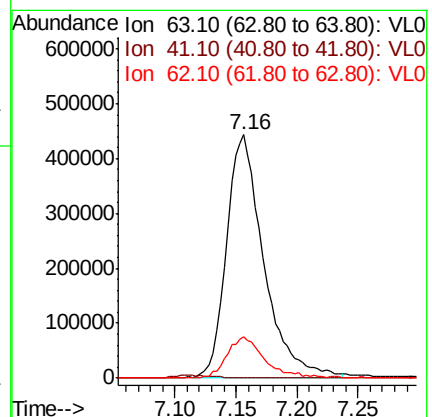
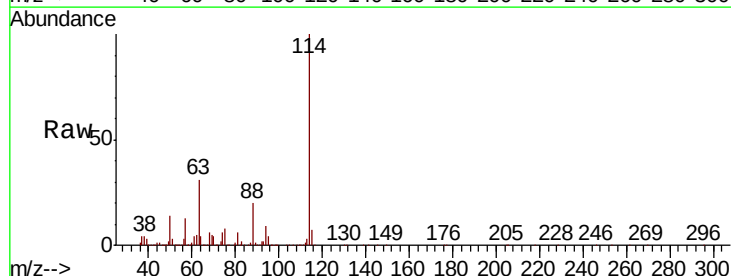
Manual Integrations
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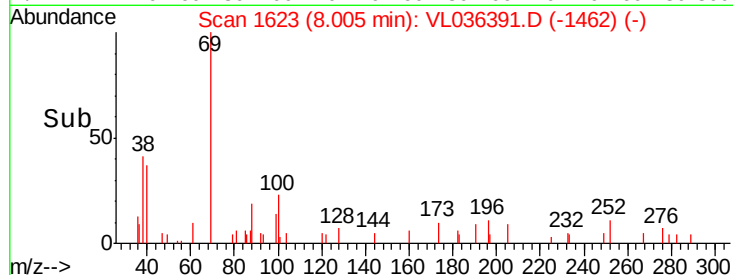
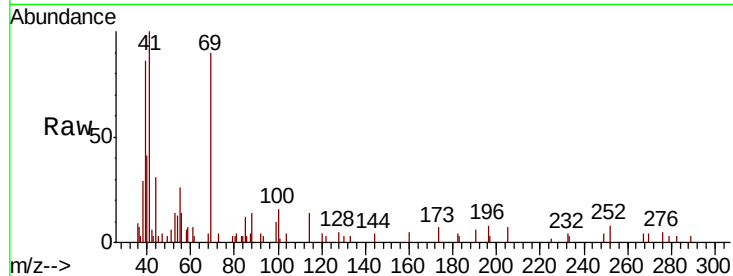
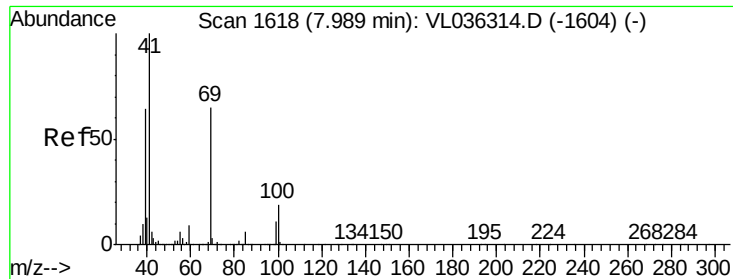
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 3/1/2021 10:03:14 AM



#39
 1,2-Dichloropropane
 Concen: 8.392 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.43 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.1	63.8	95.6#
62	17.0	52.3	78.5#





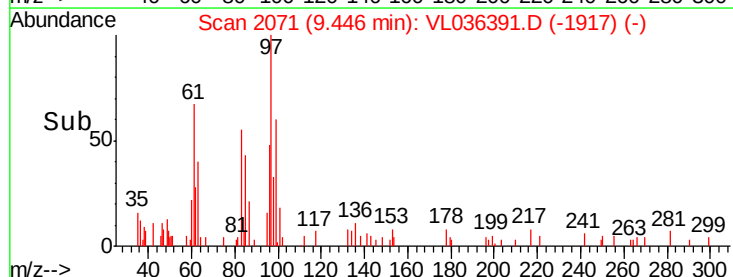
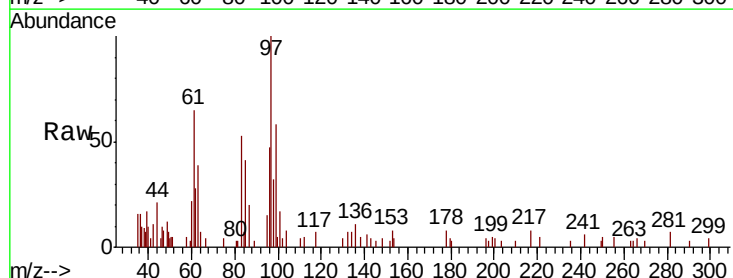
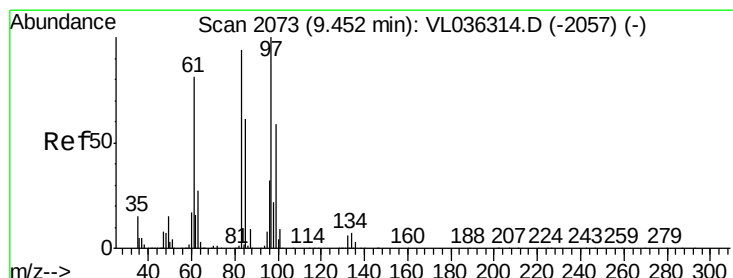
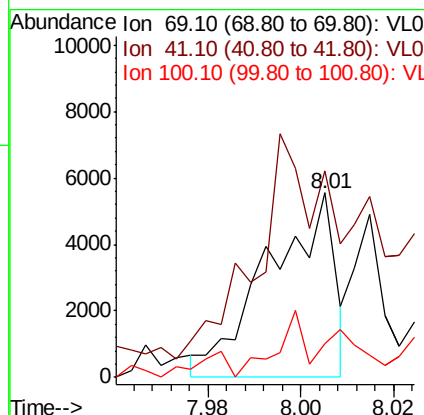
#43
Methyl Methacrylate
Concen: 0.047 ppbv
RT: 8.01 min Scan# 1623
Delta R.T. 0.02 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tot Ion	Ratio	Lower	Upper
69	100		
41	275.4	126.5	189.7#
100	55.5	23.1	34.7#

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

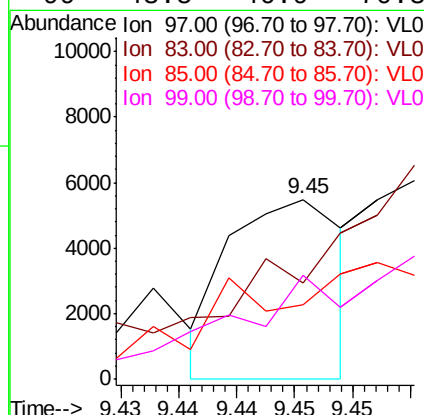
Manual Integrations
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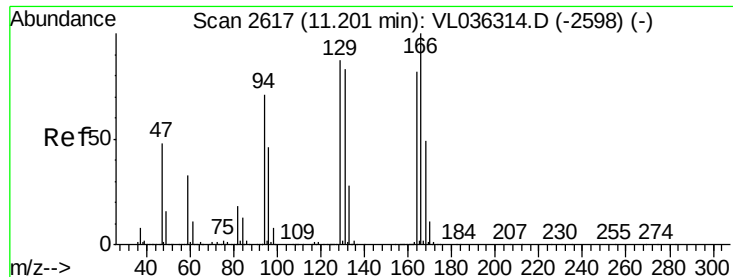
MMDadoda
3/1/2021 10:03:14 AM



#47
1,1,2-Trichloroethane
Concen: 0.033 ppbv
RT: 9.45 min Scan# 2071
Delta R.T. -0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
97	100		
83	26.4	75.4	113.0#
85	34.4	48.9	73.3#
99	43.5	46.9	70.3#





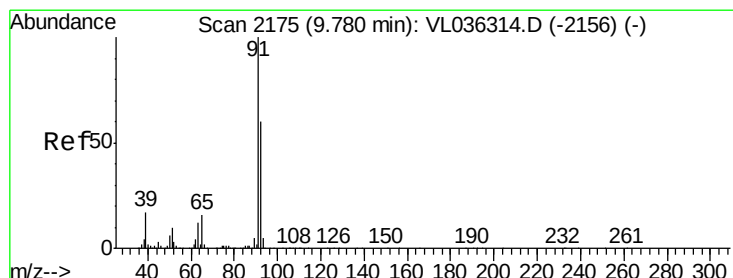
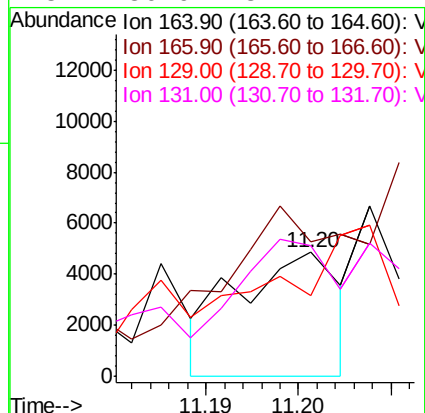
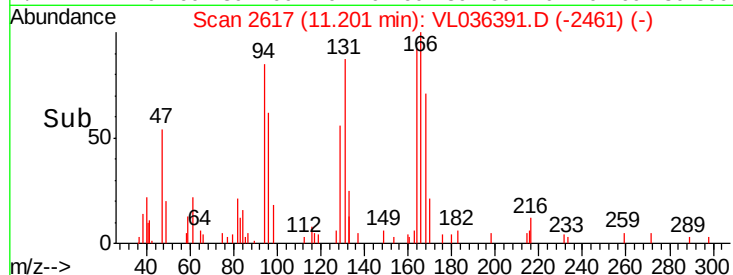
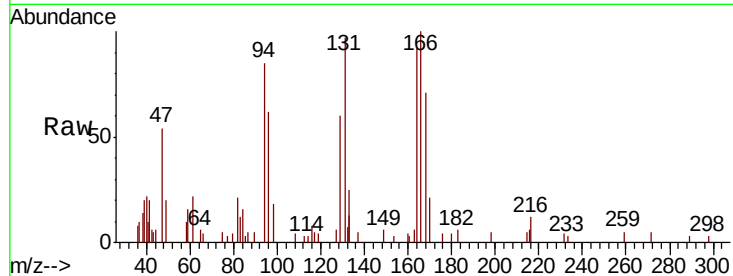
#52
Tetrachloroethene
Concen: 0.037 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
164	100		
166	74.1	97.8	146.8#
129	33.3	84.9	127.3#
131	136.9	81.4	122.2#

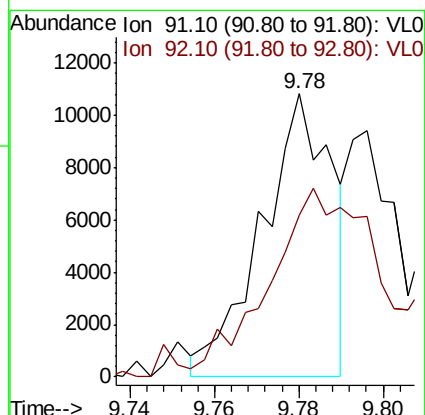
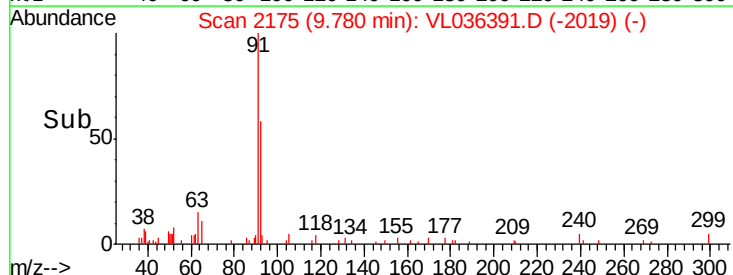
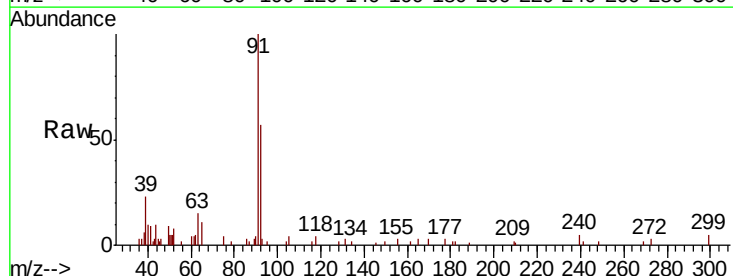
Manual Integrations
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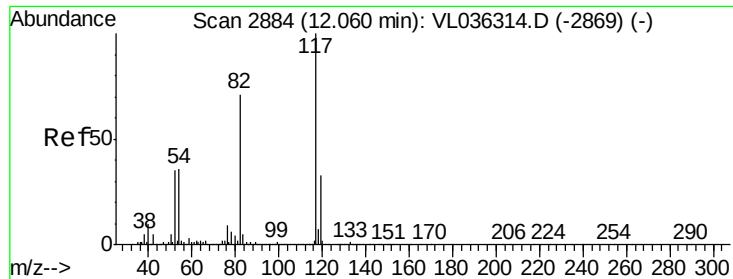
MMDadoda
3/1/2021 10:03:14 AM



#53
Toluene
Concen: 0.042 ppbv
RT: 9.78 min Scan# 2175
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	119.5	48.6	72.8#





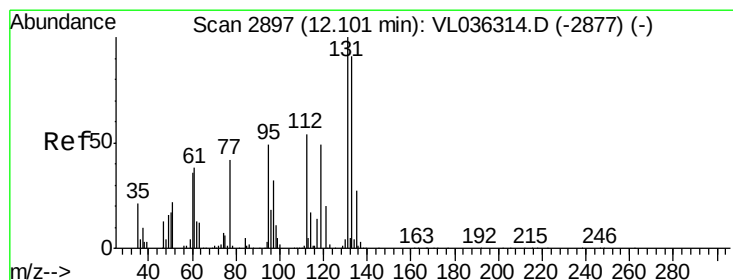
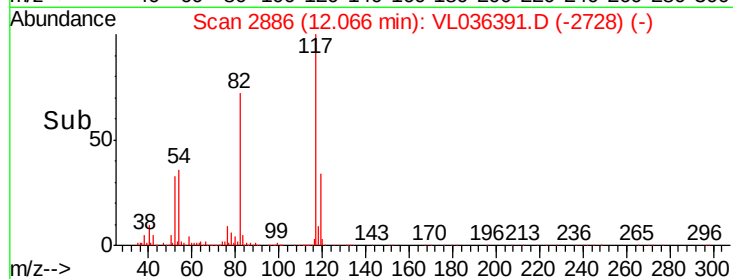
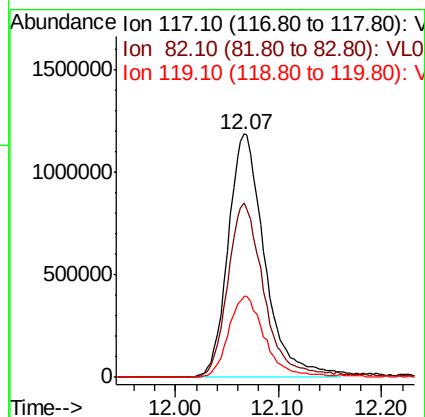
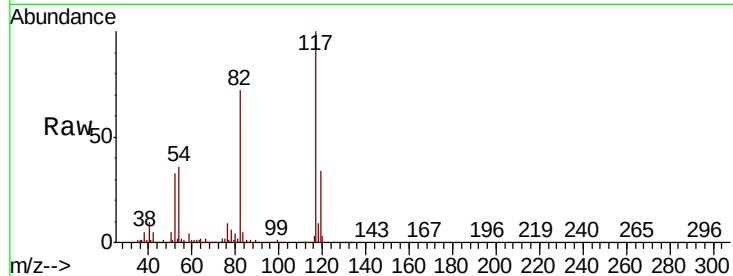
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.7	59.1	88.7
119	34.0	46.3	69.5

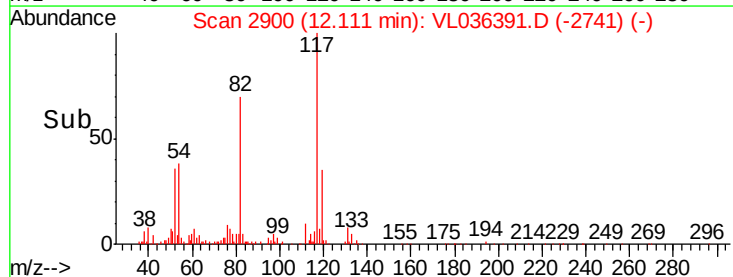
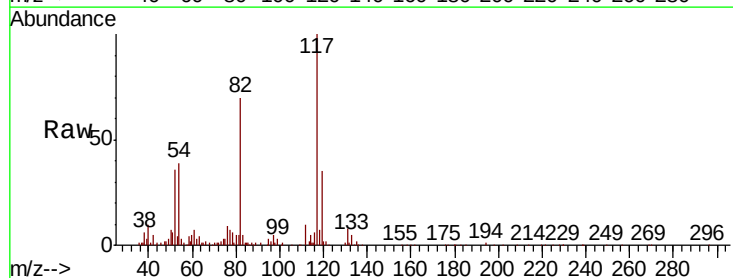
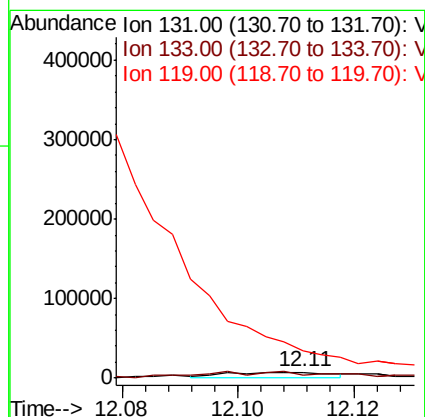
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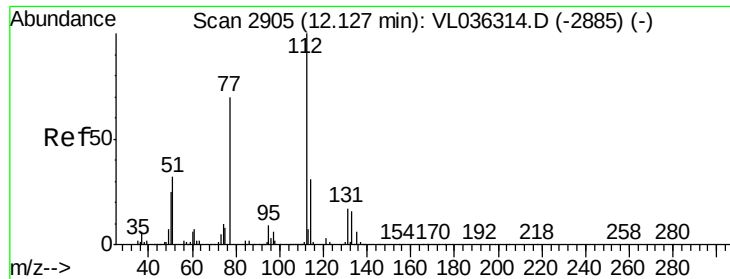
MMDadoda
3/1/2021 10:03:14 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.069 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	76.0	114.0
119	0.0	115.1	172.7





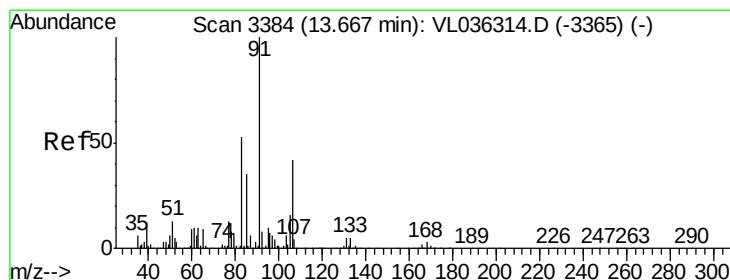
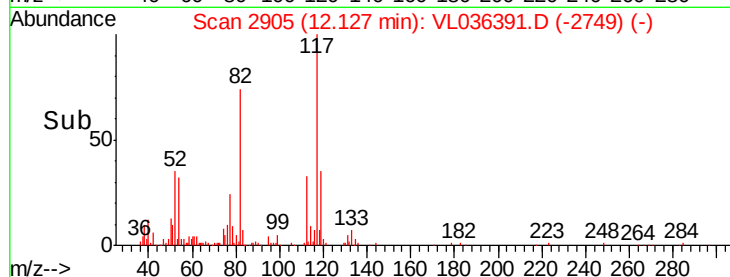
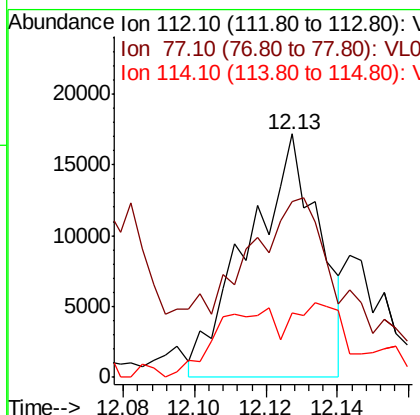
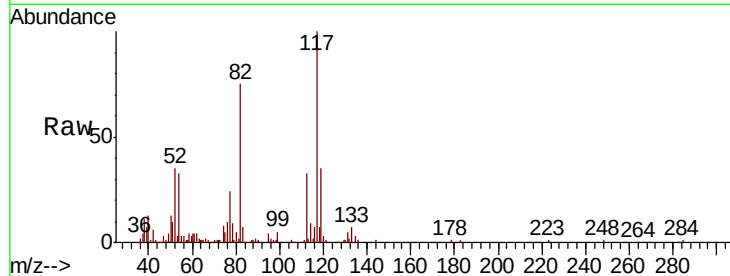
#57
Chlorobenzene
Concen: 0.104 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
112	100		
77	45.0	56.1	84.1#
114	20.1	28.3	34.5#

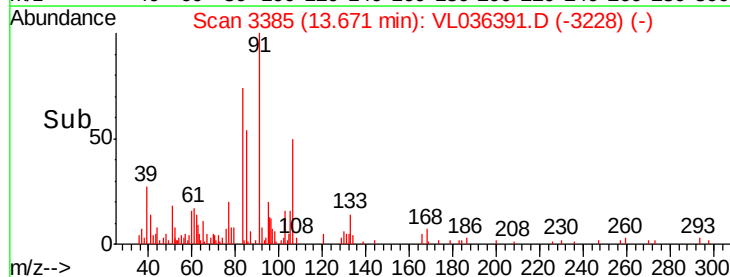
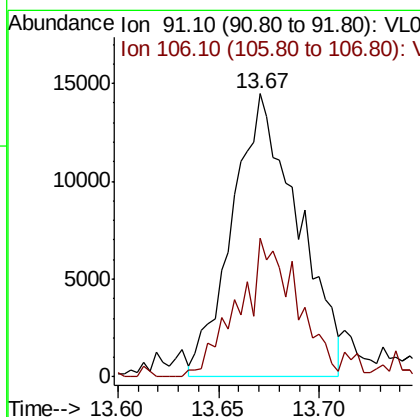
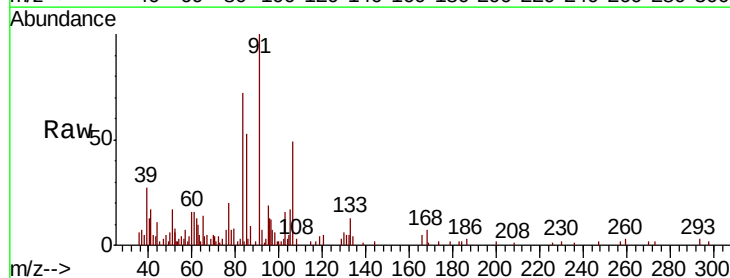
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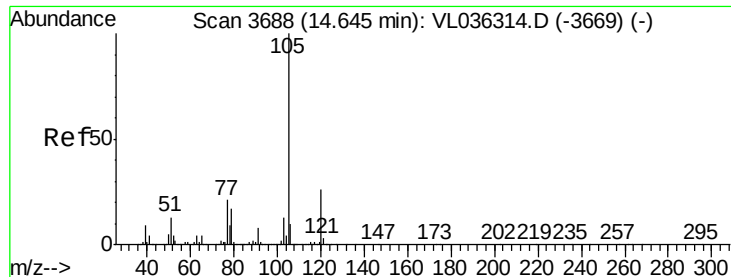
MMDadoda
3/1/2021 10:03:14 AM



#60
o-Xylene
Concen: 0.097 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.2	22.0	66.0





#62

Isopropylbenzene

Concen: 0.095 ppbv

RT: 14.65 min Scan# 3690

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion:105 Resp: 47892

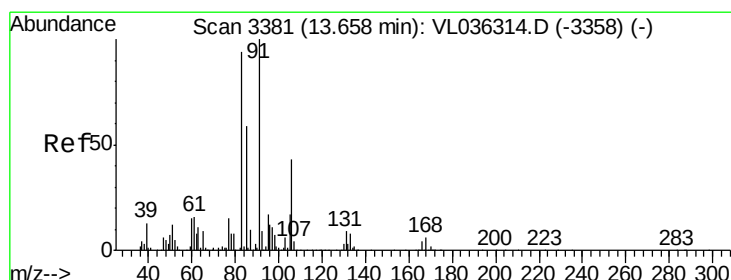
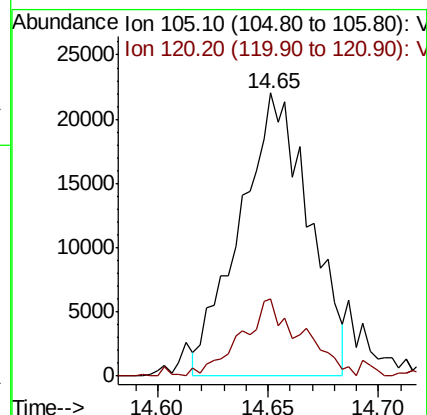
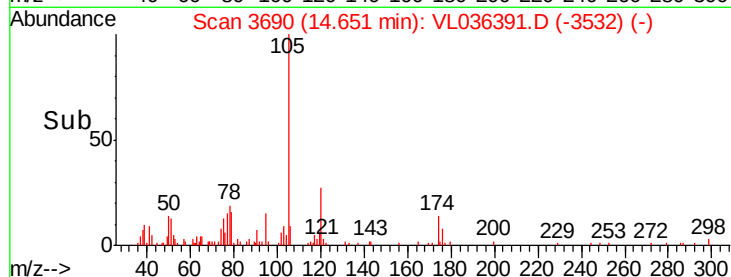
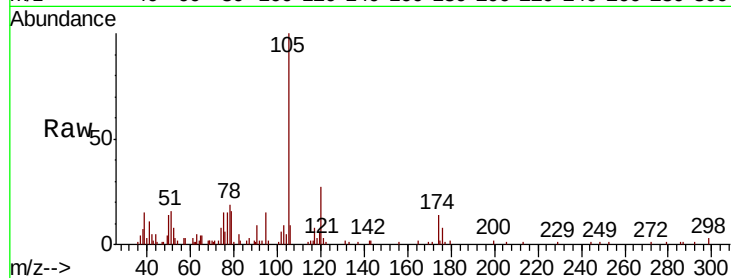
Ion Ratio Lower Upper

105 100

120 26.0 20.6 30.8

Manual Integrations
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#63

1,1,2,2-Tetrachloroethane

Concen: 0.076 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

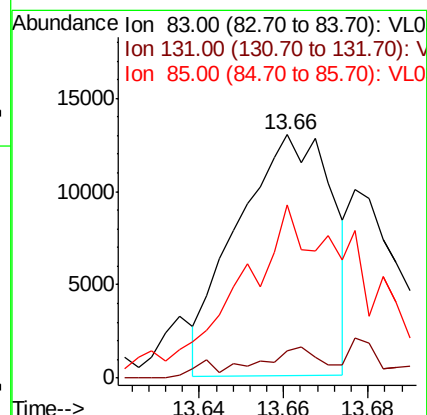
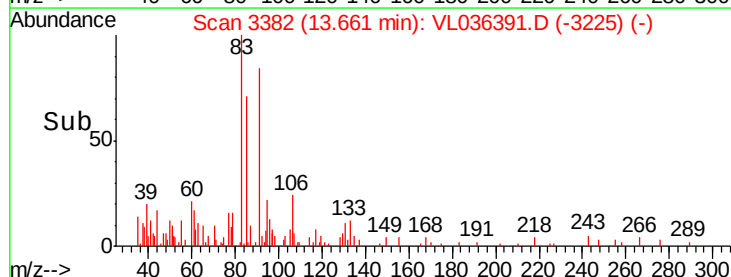
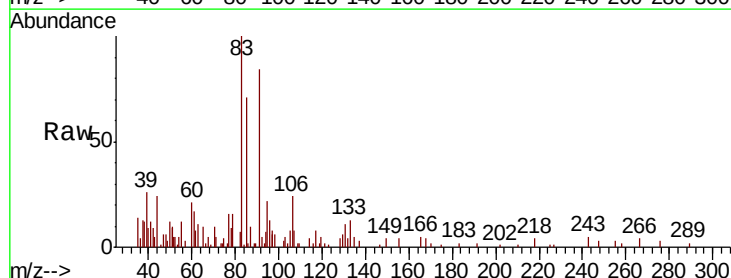
Tgt Ion: 83 Resp: 20267

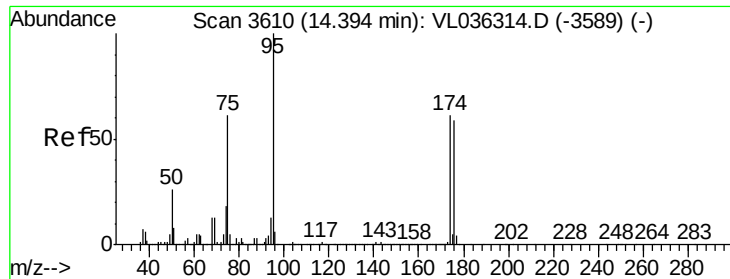
Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.0#

85 118.7 33.0 98.9#





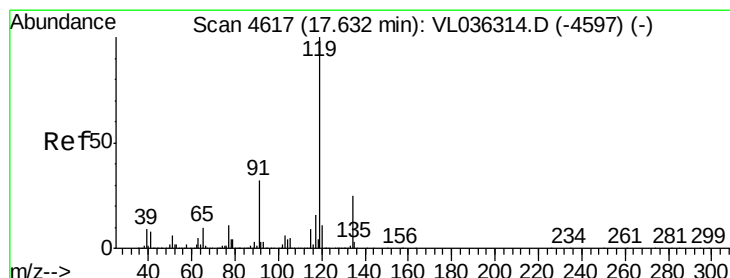
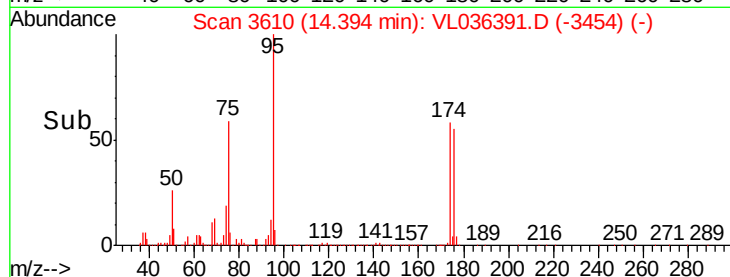
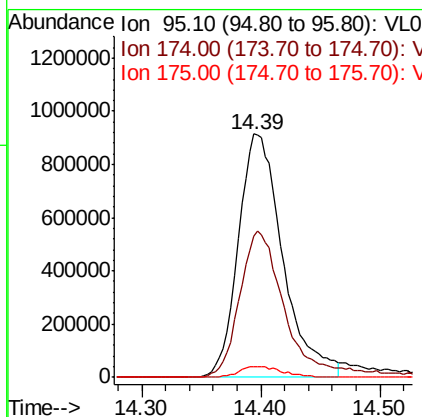
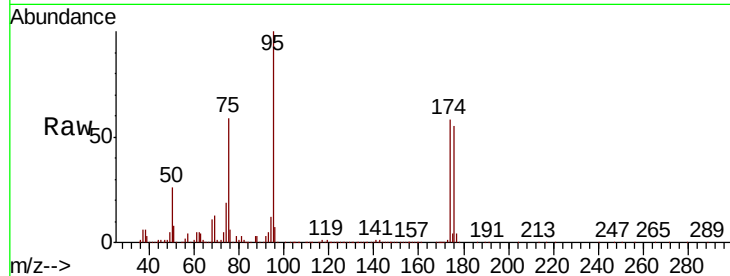
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.828 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
95	100		
174	64.0	49.8	74.6
175	4.9	3.7	5.5

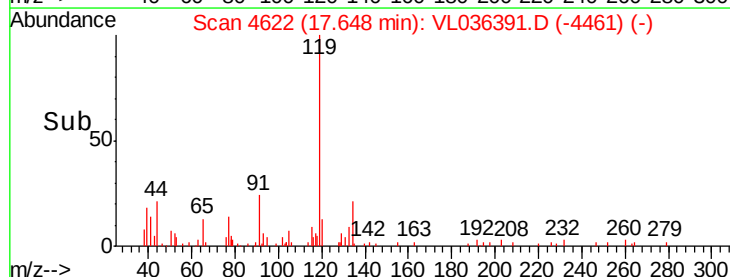
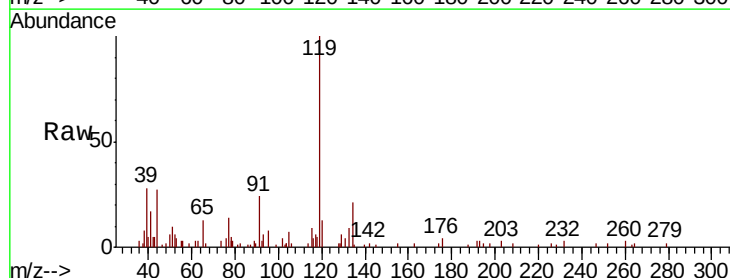
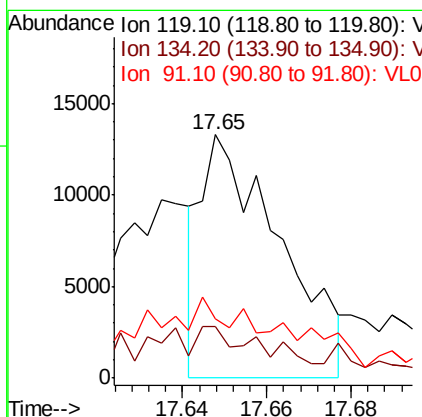
Manual Integrations
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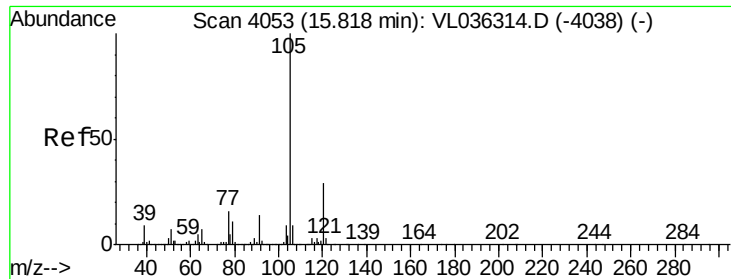
MMDadoda
 3/1/2021 10:03:14 AM



#69
 p-Isopropyltoluene
 Concen: 0.036 ppbv
 RT: 17.65 min Scan# 4622
 Delta R.T. 0.02 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
119	100		
134	46.9	20.1	30.1#
91	83.0	25.8	38.6#





#72

4-Ethyltoluene

Concen: 0.032 ppbv

RT: 15.83 min Scan# 4056

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

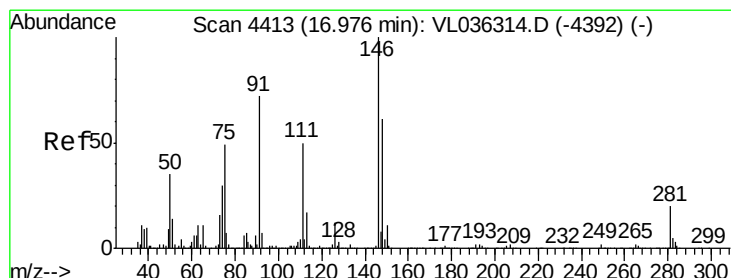
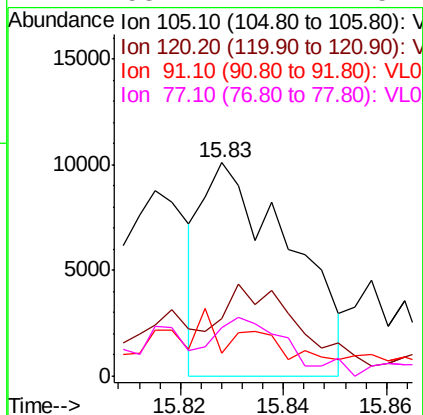
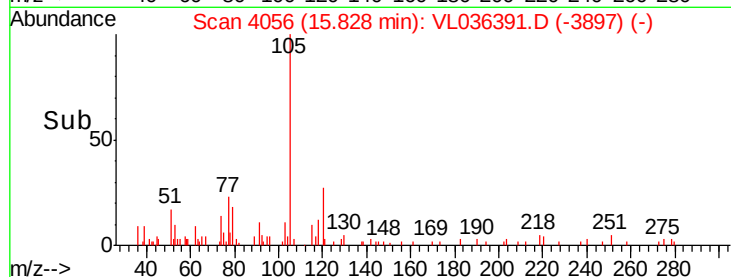
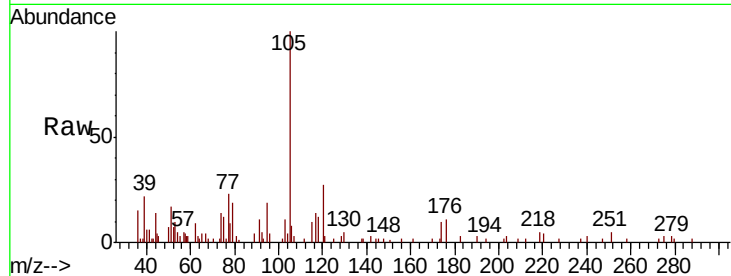
ClientSampleId :

LOD-MDL-AIR-01-QT1-2021

Tot Ion	Ratio	Lower	Upper
105	100		
120	79.2	23.2	34.8#
91	49.4	11.0	16.4#
77	53.4	12.2	18.4#

Manual Integrations
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3/1/2021 10:03:14 AM



#75

1,3-Dichlorobenzene

Concen: 0.033 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.9	74.6#
148	0.0	31.9	95.9#

