

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034878.D
 Acq On : 10 Mar 2020 22:50
 Operator : SY/AP
 Sample : L1161-15 0.1 PPB MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:17:49 PM

Quant Time: Mar 11 07:59:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	872987	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1935932	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1878518	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1558781	10.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	23693	0.198 ppbv	88
3) Chlorodifluoromethane	2.95	51	13420	0.138 ppbv #	87
4) Chloromethane	3.10	50	6994m	0.127 ppbv	
5) Vinyl Chloride	3.22	62	7042m	0.133 ppbv	
6) Bromomethane	3.45	94	4260m	0.138 ppbv	
7) Chloroethane	3.53	64	2898m	0.151 ppbv	
8) Dichlorotetrafluoroethane	3.15	85	19121	0.154 ppbv	98
9) Propene	2.97	41	7553m	0.162 ppbv	
10) Heptane	8.14	43	10731m	0.094 ppbv	
11) Trichlorofluoromethane	3.92	101	20597m	0.162 ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	13616	0.153 ppbv	95
13) Ethanol	3.60	45	2305m	0.163 ppbv	
14) Bromoethene	3.71	108	5207m	0.135 ppbv	
15) Acetone	3.85	43	25444	0.225 ppbv #	85
16) 1,3-Butadiene	3.29	39	7249m	0.142 ppbv	
17) tert-Butyl alcohol	4.31	59	16062m	0.147 ppbv	
18) 1,1-Dichloroethene	4.27	96	5856m	0.149 ppbv	
19) Isopropyl Alcohol	3.97	45	10822m	0.151 ppbv	
20) Methylene Chloride	4.32	84	9093	0.254 ppbv #	75
21) Allyl Chloride	4.39	41	7632m	0.105 ppbv	
22) trans-1,2-Dichloroethene	4.87	96	5246m	0.131 ppbv	
23) Vinyl Acetate	5.07	43	14844m	0.089 ppbv	
24) 1,1-Dichloroethane	4.99	63	16854	0.150 ppbv	98
25) Ethyl Acetate	5.68	43	21245m	0.105 ppbv	
26) Hexane	5.68	57	10619m	0.122 ppbv	
27) Carbon Disulfide	4.53	76	7927m	0.080 ppbv	
28) Methyl tert-Butyl Ether	5.04	73	16381m	0.113 ppbv	
29) Chloroform	5.74	83	18632m	0.141 ppbv	
30) Cyclohexane	7.13	84	5069m	0.070 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	10417m	0.117 ppbv	
32) 1,1,1-Trichloroethane	6.51	97	14820	0.115 ppbv	93
34) 2-Butanone	5.26	43	16502m	0.128 ppbv	
35) Carbon Tetrachloride	7.01	117	14396m	0.120 ppbv	
36) Benzene	6.90	78	18793	0.109 ppbv #	89
37) 1,2-Dichloroethane	6.30	62	14627m	0.150 ppbv	
38) Trichloroethene	7.84	130	7744m	0.118 ppbv	
39) 1,2-Dichloropropane	7.61	63	9571m	0.140 ppbv	
40) 1,4-Dioxane	7.90	88	2396m	0.093 ppbv	
41) Tetrahydrofuran	6.09	42	6088m	0.087 ppbv	
42) Bromodichloromethane	7.80	83	13596m	0.103 ppbv	
43) Methyl Methacrylate	8.03	69	7180m	0.099 ppbv	

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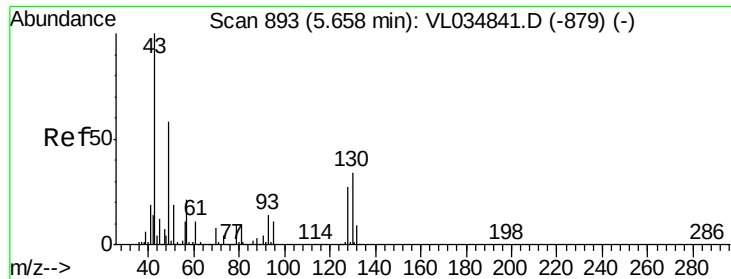
Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:17:49 PM

Quant Time: Mar 11 07:59:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	26184m	0.090	ppbv	
45) t-1,3-Dichloropropene	9.29	75	4172m	0.049	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	7797m	0.077	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	10081m	0.144	ppbv	
48) Dibromochloromethane	10.33	129	8686m	0.076	ppbv	
49) Bromoform	13.07	173	7490m	0.074	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	16348m	0.088	ppbv	
51) 2-Hexanone	10.19	43	11713m	0.078	ppbv	
52) Tetrachloroethene	11.25	164	7546m	0.111	ppbv	
53) Toluene	9.82	91	16794m	0.084	ppbv	
54) 1,2-Dibromoethane	10.64	107	12121m	0.115	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	10188m	0.121	ppbv	
57) Chlorobenzene	12.18	112	20050m	0.136	ppbv	
58) Ethyl Benzene	12.73	91	23424m	0.092	ppbv	
59) m/p-Xylene	13.01	91	35871m	0.168	ppbv	
60) o-Xylene	13.71	91	18329m	0.088	ppbv	
61) Styrene	13.55	104	10675m	0.073	ppbv	
62) Isopropylbenzene	14.70	105	32371m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	17563m	0.124	ppbv	
64) n-propylbenzene	15.59	120	7015m	0.086	ppbv	
65) tert-Butylbenzene	16.80	119	14919m	0.054	ppbv	
66) Benzyl Chloride	17.04	91	6643m	0.058	ppbv	
67) sec-Butylbenzene	17.33	105	25201m	0.066	ppbv	
69) p-Isopropyltoluene	17.70	119	17832m	0.056	ppbv	
70) n-Butylbenzene	18.59	91	19560m	0.060	ppbv	
71) 2-Chlorotoluene	15.48	91	20649m	0.087	ppbv	
72) 4-Ethyltoluene	15.87	105	16478m	0.067	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	14236m	0.062	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	15305m	0.065	ppbv	
75) 1,3-Dichlorobenzene	17.04	146	17676m	0.124	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	15314m	0.107	ppbv	
77) 1,2-Dichlorobenzene	17.87	146	15030m	0.108	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	15302m	0.132	ppbv	
79) Naphthalene	22.28	128	7193m	0.039	ppbv	
81) 1,2,4-Trichlorobenzene	22.00	180	7148m	0.061	ppbv	

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



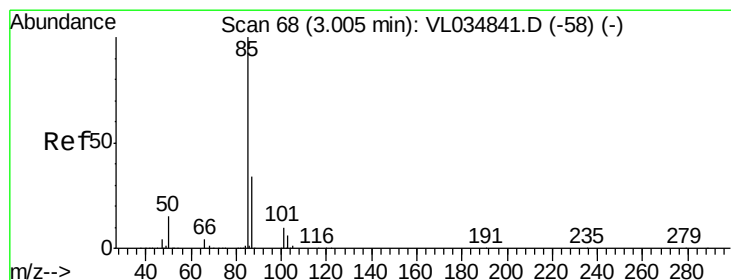
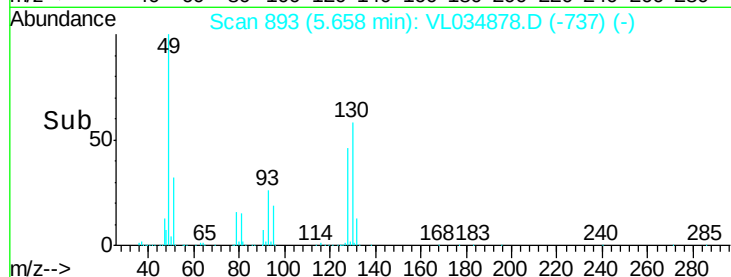
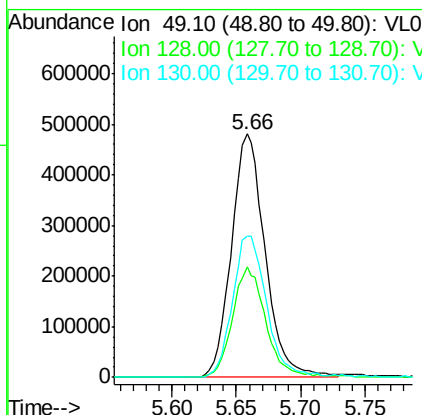
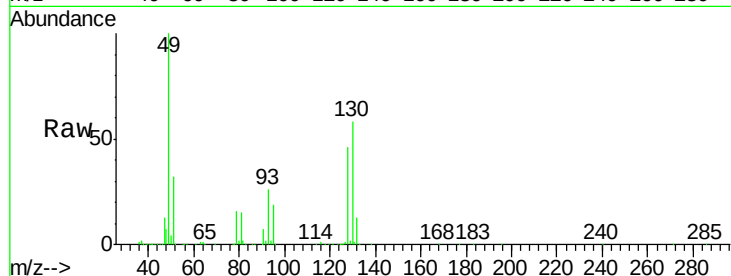
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. 0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.1	23.4	70.3
130	59.5	30.0	90.0

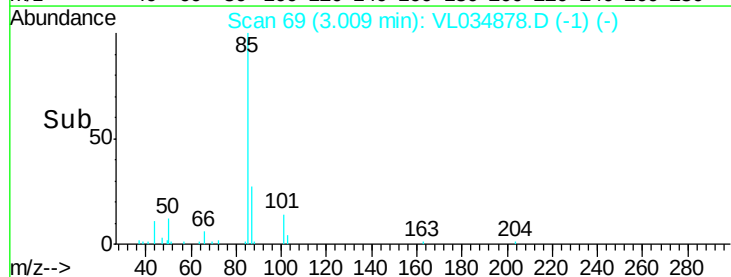
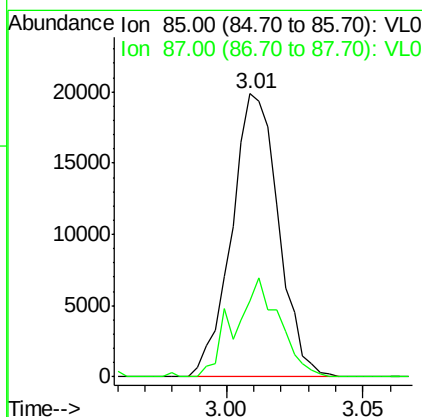
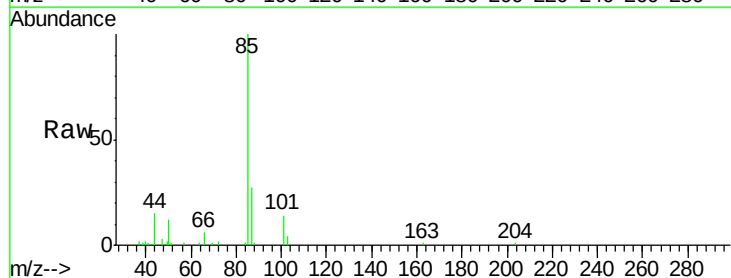
Manual Integrations
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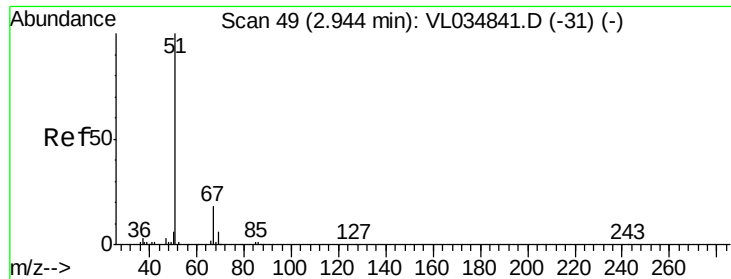
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#2
Dichlorodifluoromethane
Concen: 0.198 ppbv
RT: 3.01 min Scan# 69
Delta R.T. 0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
85	100		
87	27.0	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.138 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 51 Resp: 13420

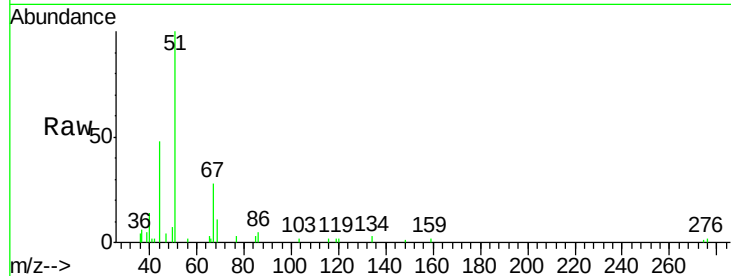
Ion Ratio Lower Upper

51 100

67 23.4 14.3 21.5#

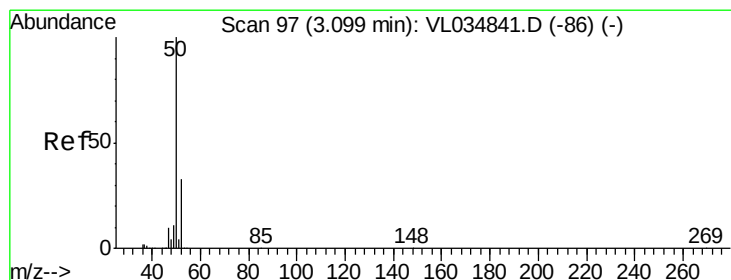
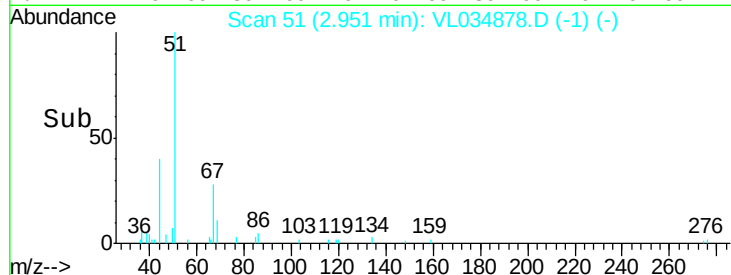
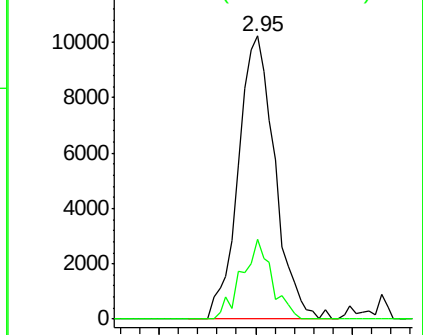
Manual Integrations
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3/11/2020 3:17:49 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.127 ppbv m

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034878.D

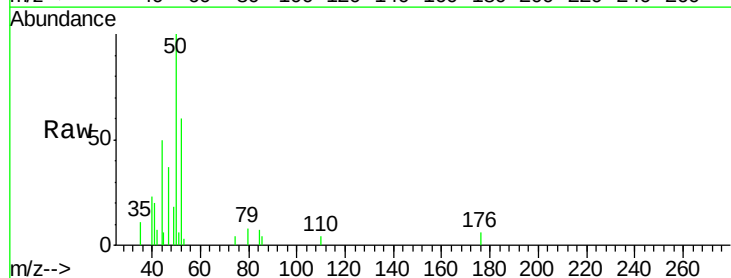
Acq: 10 Mar 2020 22:50

Tgt Ion: 50 Resp: 6994

Ion Ratio Lower Upper

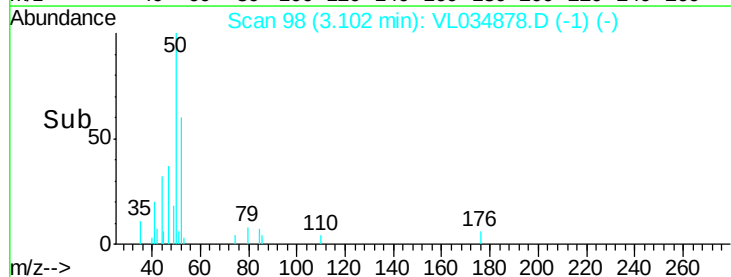
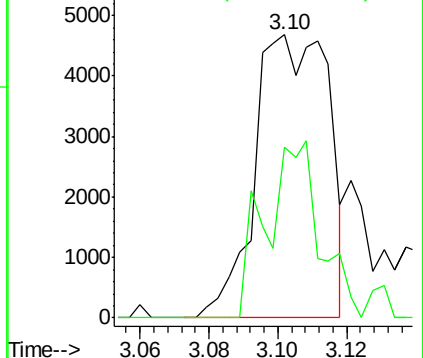
50 100

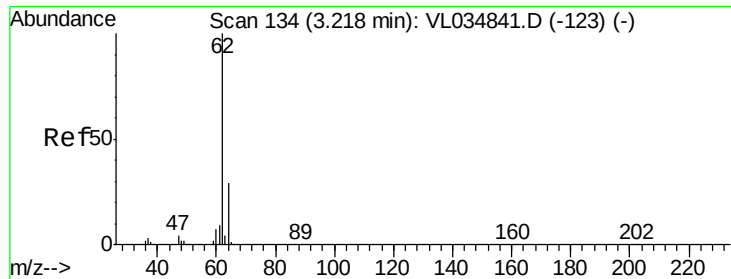
52 60.2 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.133 ppbv m

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tot Ion: 62 Resp: 7042

Ion Ratio Lower Upper

62 100

64 33.9 23.0 34.4

Instrument :

MSVOA_L

ClientSampleId :

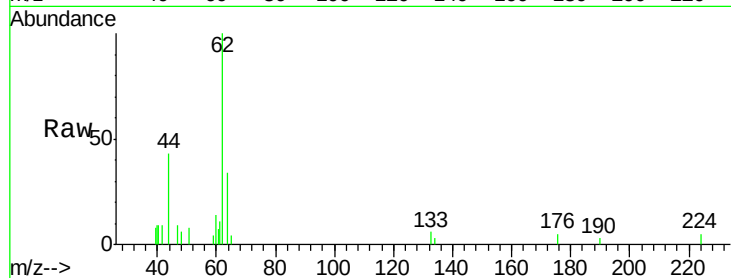
MDL-AIR-01-QT1-2020

Manual Integrations

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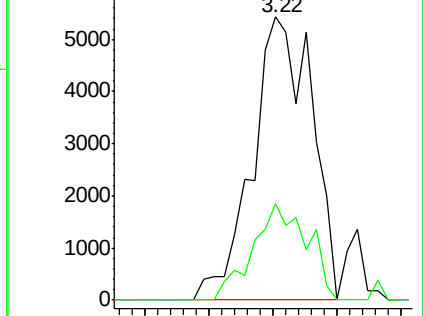
MMDadoda

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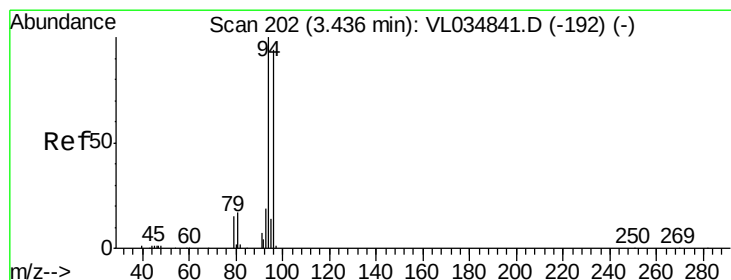
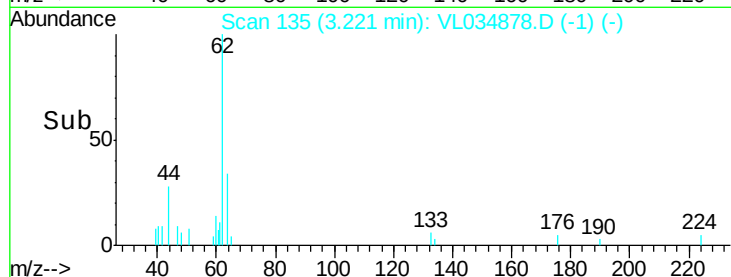


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 0.138 ppbv m

RT: 3.45 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL034878.D

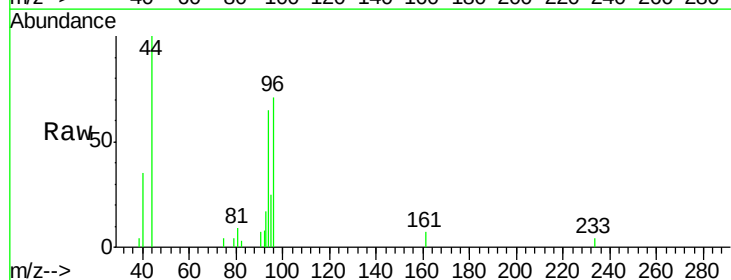
Acq: 10 Mar 2020 22:50

Tgt Ion: 94 Resp: 4260

Ion Ratio Lower Upper

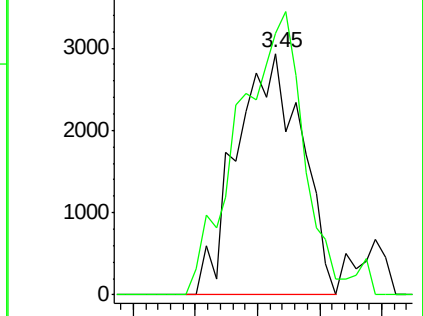
94 100

96 108.1 75.5 113.3

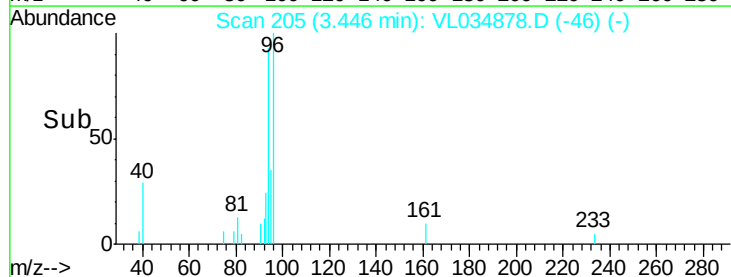


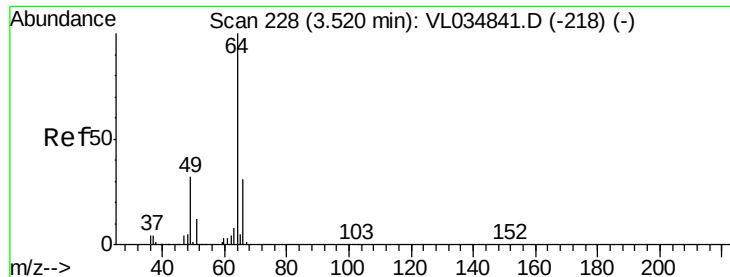
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 0.151 ppbv m

RT: 3.53 min Scan# 230

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 64 Resp: 2898

Ion Ratio Lower Upper

64 100

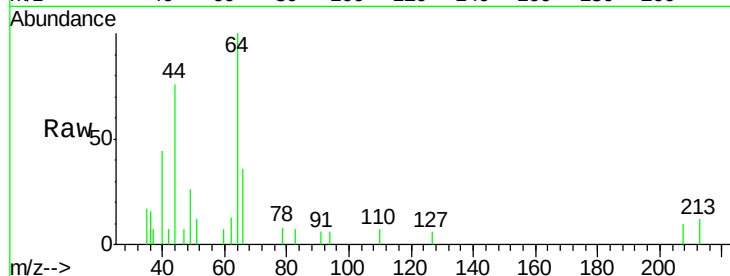
66 36.2 24.8 37.2

Manual Integrations

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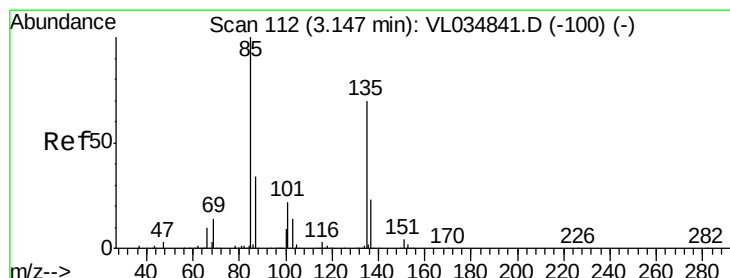
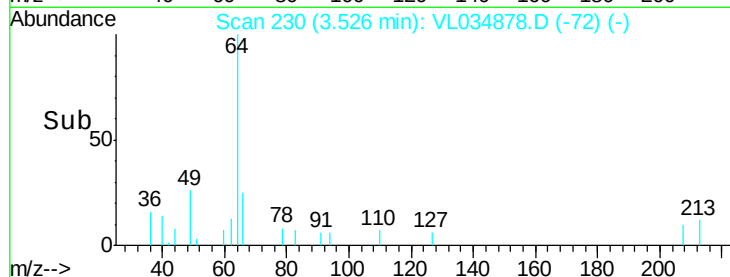
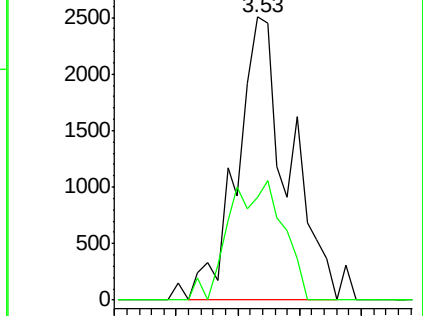
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.154 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034878.D

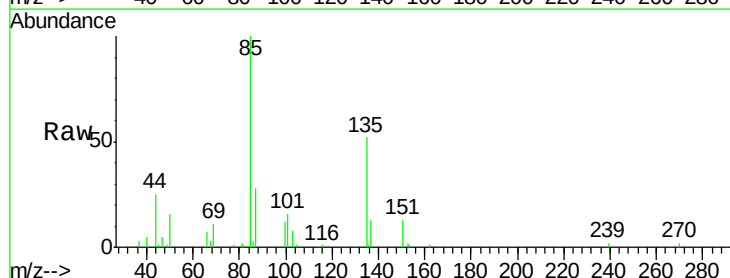
Acq: 10 Mar 2020 22:50

Tgt Ion: 85 Resp: 19121

Ion Ratio Lower Upper

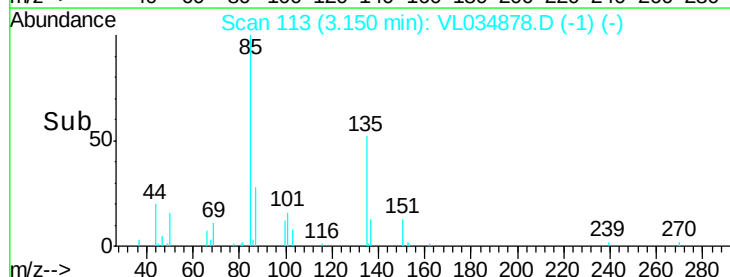
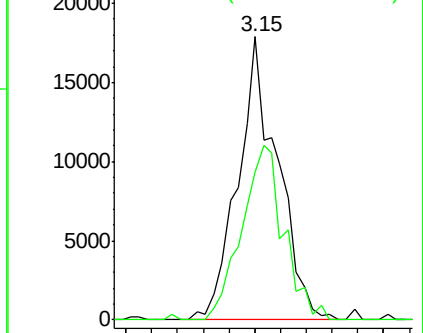
85 100

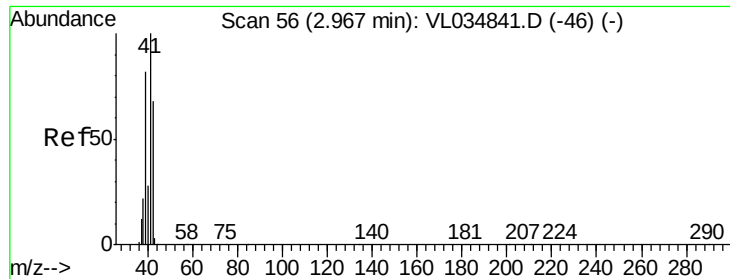
135 66.0 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.162 ppbv m

RT: 2.97 min Scan# 58

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 41 Resp: 7553

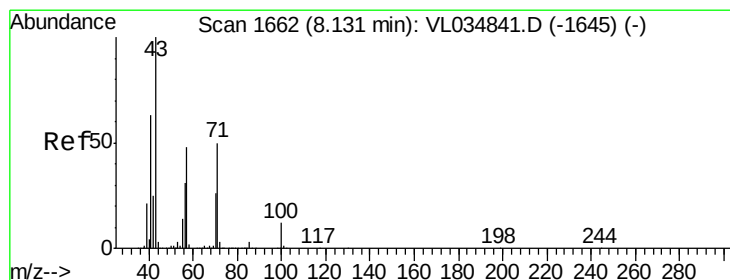
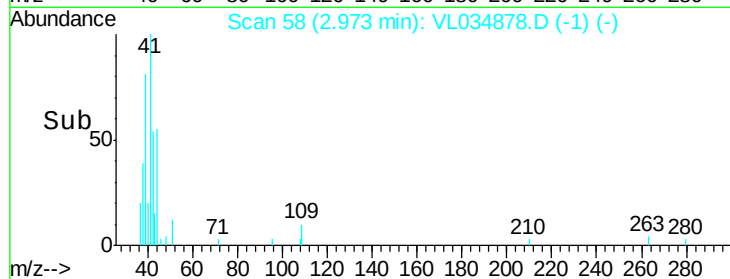
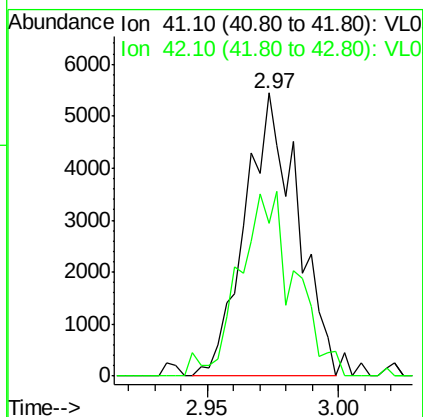
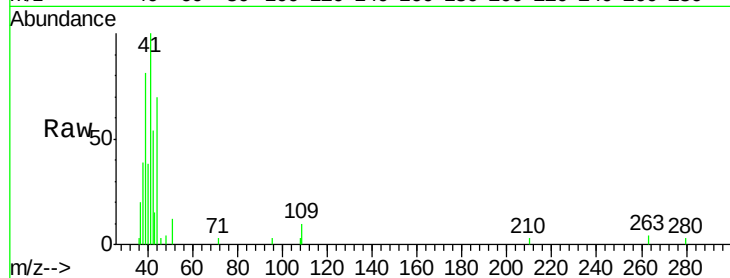
Ion Ratio Lower Upper

41 100

42 6.1 55.2 82.8#

Manual Integrations
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#10

Heptane

Concen: 0.094 ppbv m

RT: 8.14 min Scan# 1665

Delta R.T. 0.01 min

Lab File: VL034878.D

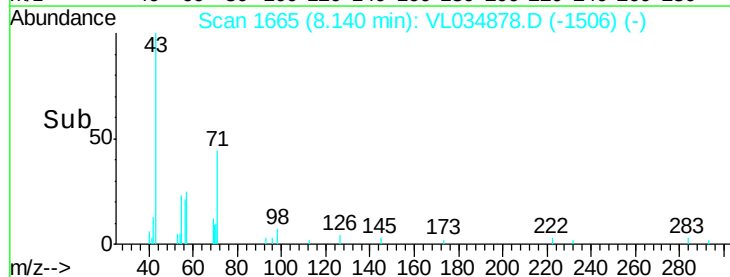
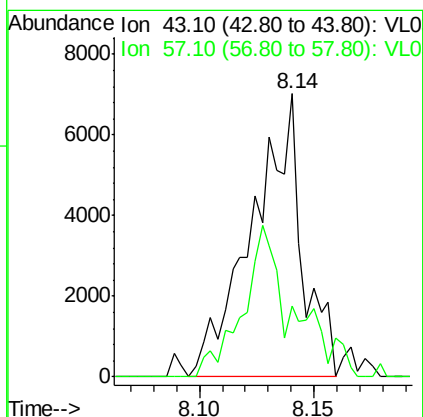
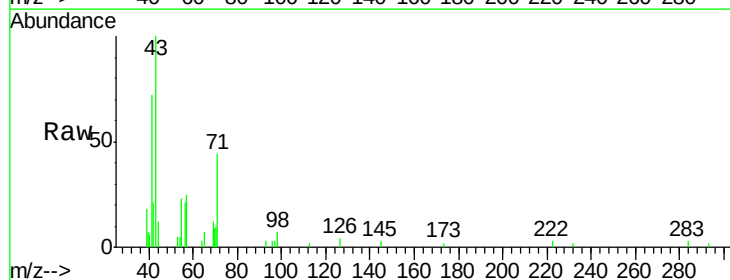
Acq: 10 Mar 2020 22:50

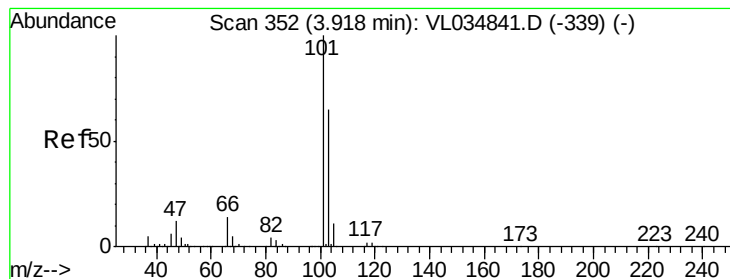
Tgt Ion: 43 Resp: 10731

Ion Ratio Lower Upper

43 100

57 54.6 39.7 59.5





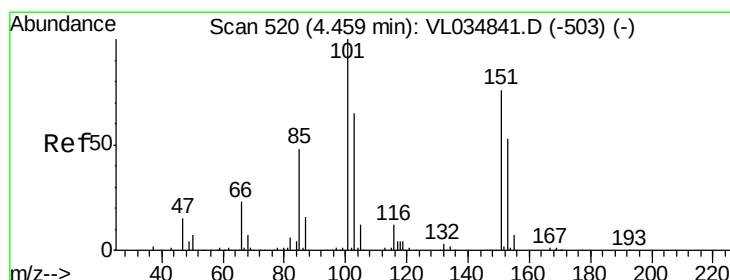
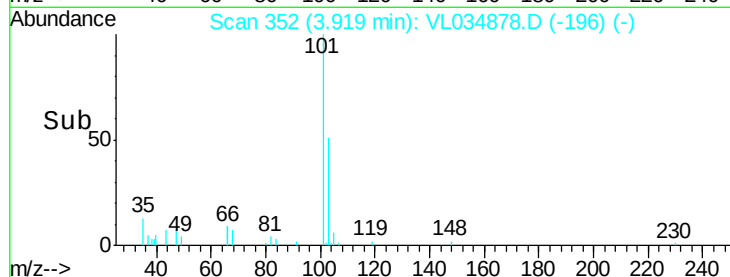
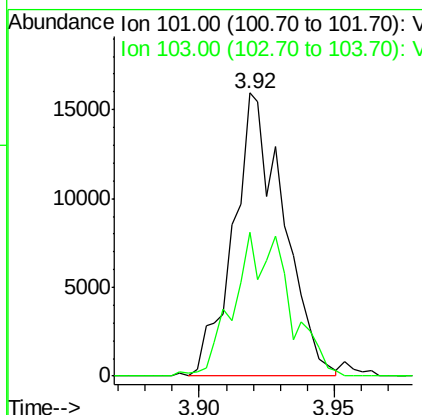
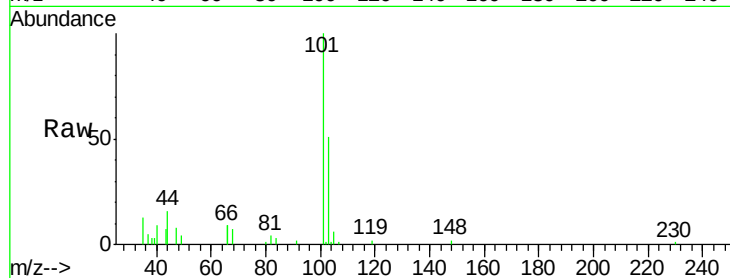
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 Trichlorofluoromethane
 Concen: 0.162 ppbv m
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

Tot Ion:101 Resp: 20597
 Ion Ratio Lower Upper
 101 100
 103 50.7 51.8 77.8#

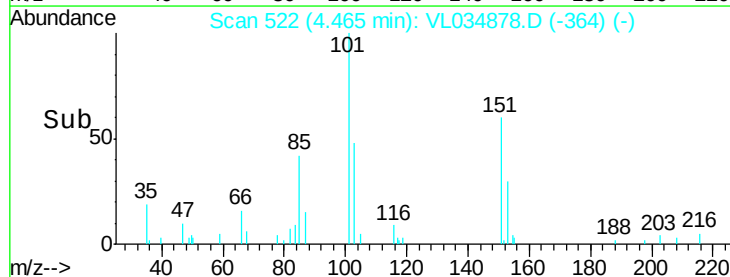
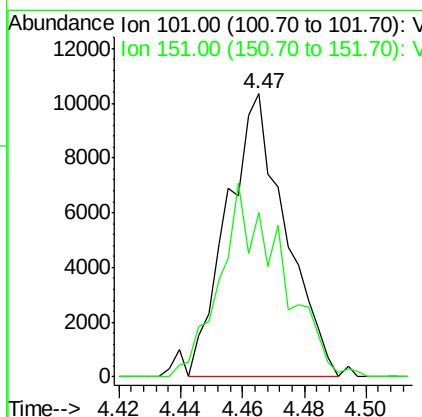
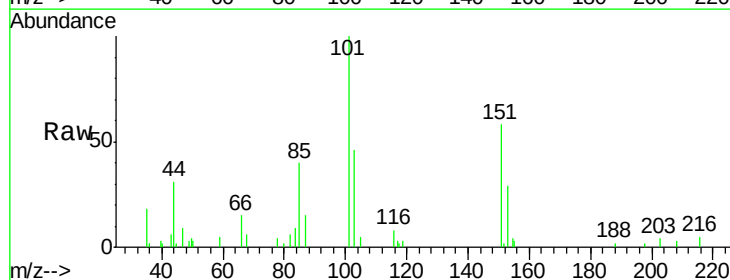
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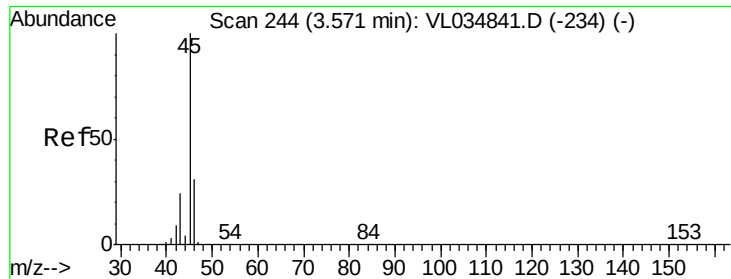
MMDadoda
 3/11/2020 3:17:49 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.153 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. 0.01 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Tgt Ion:101 Resp: 13616
 Ion Ratio Lower Upper
 101 100
 151 72.0 60.8 91.2





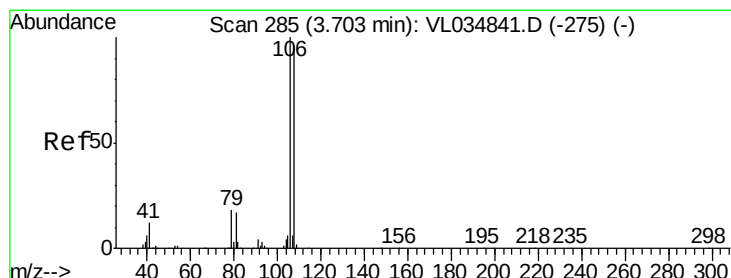
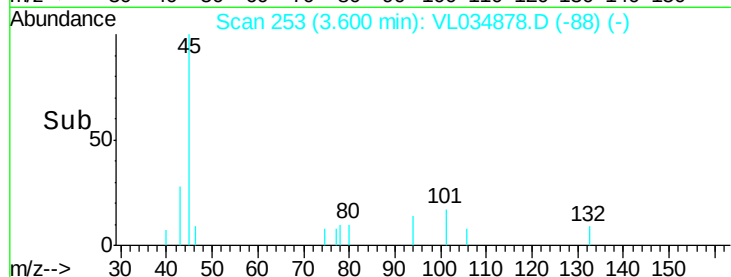
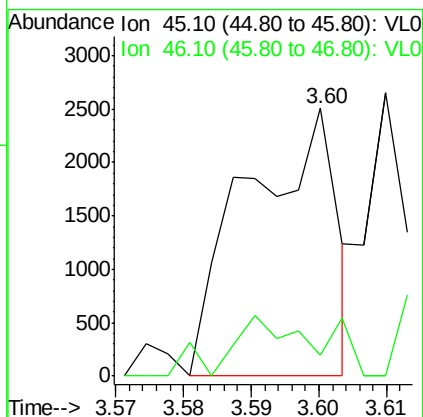
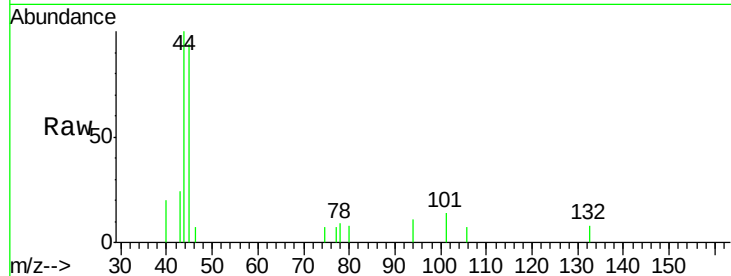
#13
Ethanol
Concen: 0.163 ppbv m
RT: 3.60 min Scan# 253
Delta R.T. 0.03 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion: 45 Resp: 2305
Ion Ratio Lower Upper
45 100
46 0.0 16.0 64.0#

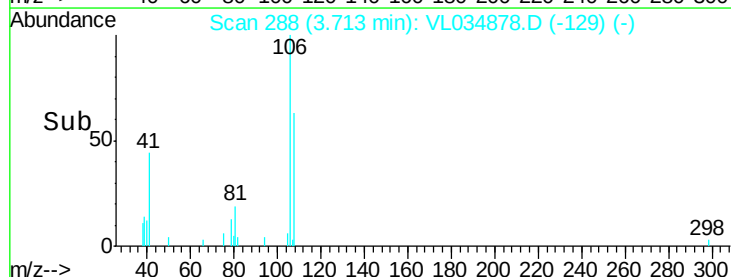
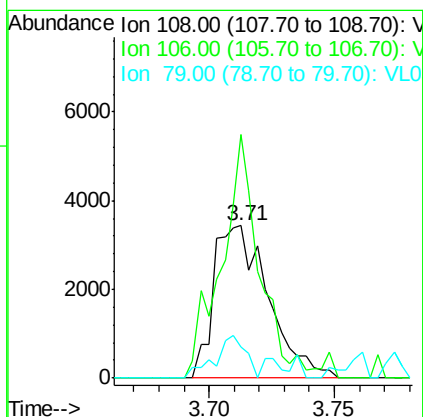
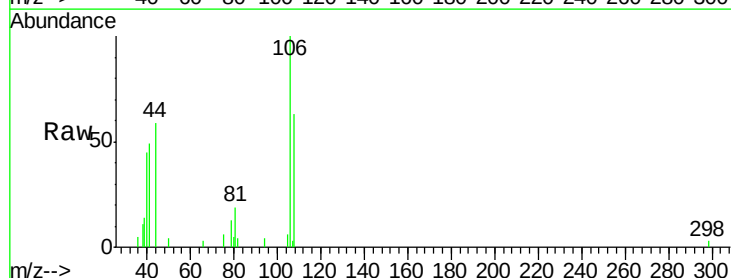
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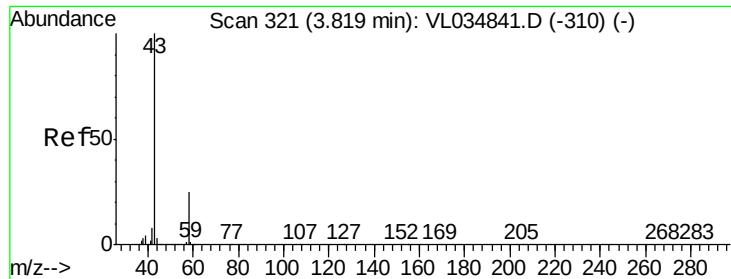
MMDadoda
3/11/2020 3:17:49 PM



#14
Bromoethene
Concen: 0.135 ppbv m
RT: 3.71 min Scan# 288
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion: 108 Resp: 5207
Ion Ratio Lower Upper
108 100
106 114.5 85.1 127.7
79 22.0 14.7 22.1





#15

Acetone

Concen: 0.225 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.03 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 43 Resp: 25444

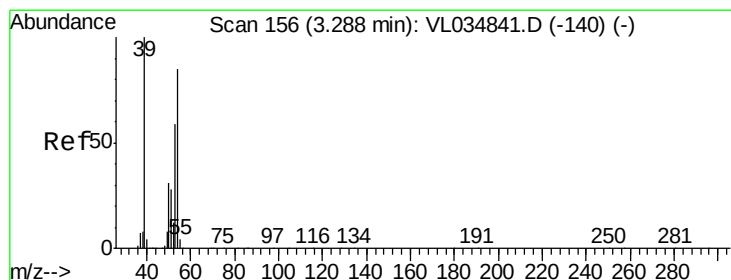
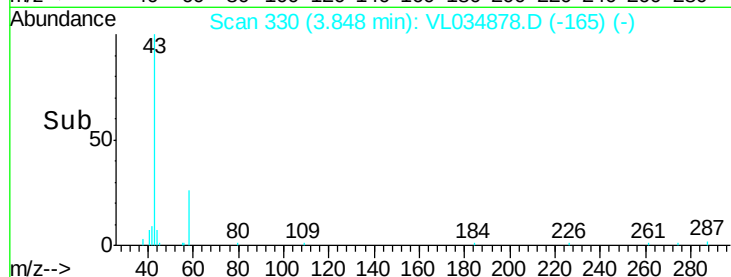
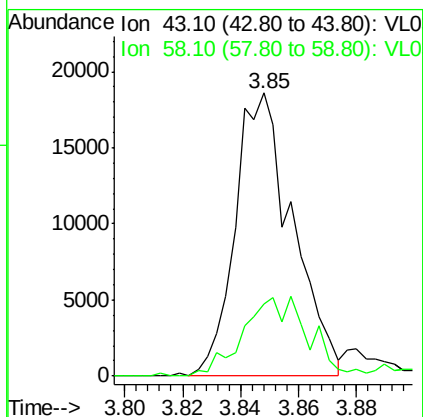
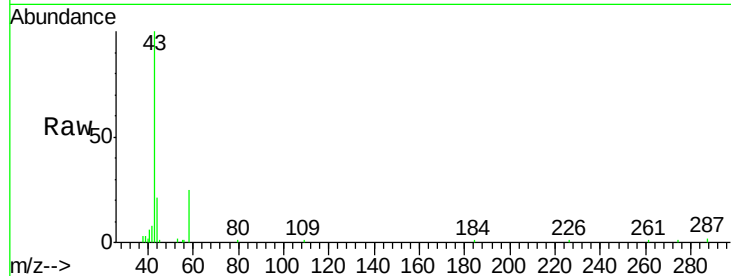
Ion Ratio Lower Upper

43 100

58 33.9 21.0 31.6#

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#16

1,3-Butadiene

Concen: 0.142 ppbv m

RT: 3.29 min Scan# 158

Delta R.T. 0.01 min

Lab File: VL034878.D

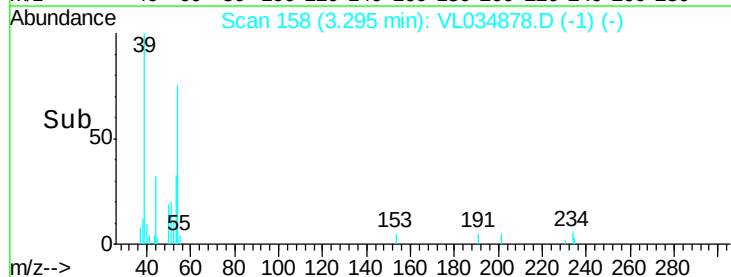
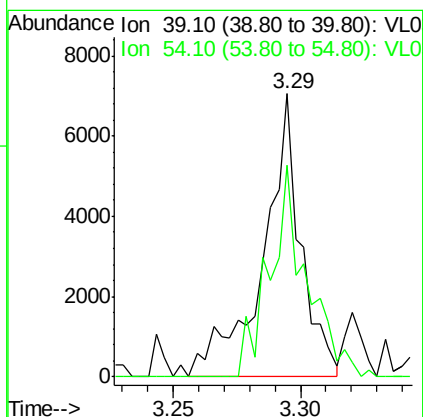
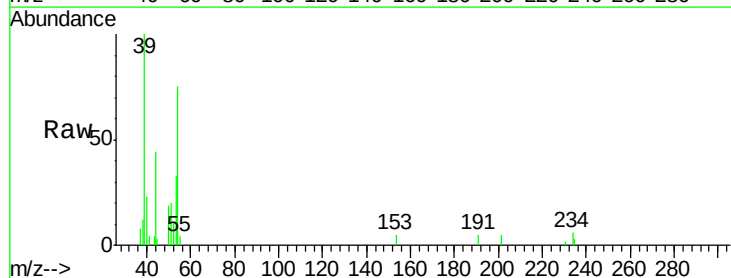
Acq: 10 Mar 2020 22:50

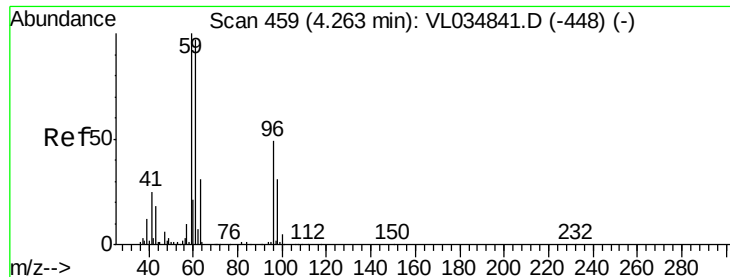
Tgt Ion: 39 Resp: 7249

Ion Ratio Lower Upper

39 100

54 73.9 65.0 97.6





#17

tert-Butyl alcohol

Concen: 0.147 ppbv m

RT: 4.31 min Scan# 475

Delta R.T. 0.05 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 59 Resp: 16062

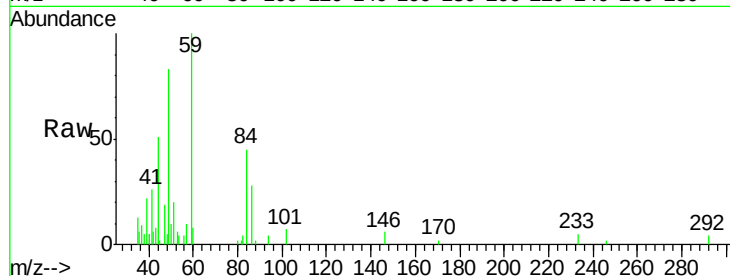
Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#

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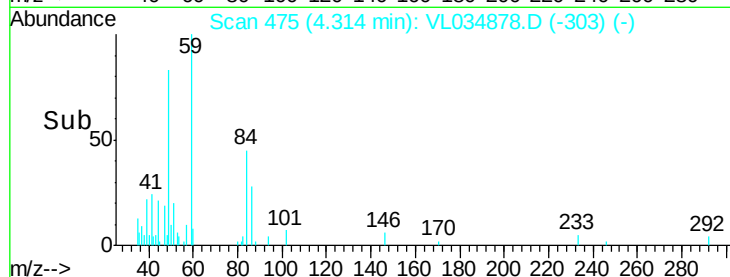
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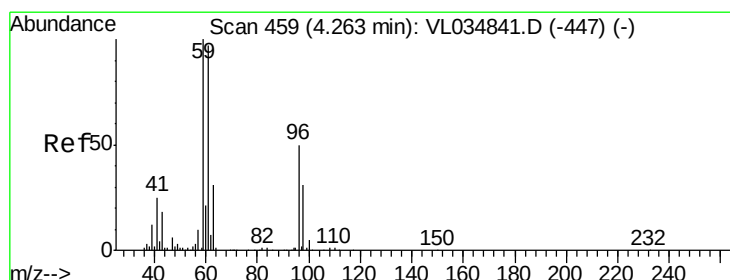
Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

Time-->



Time-->



#18

1,1-Dichloroethene

Concen: 0.149 ppbv m

RT: 4.27 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

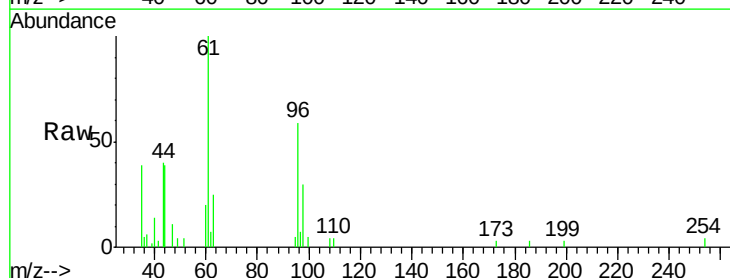
Tgt Ion: 96 Resp: 5856

Ion Ratio Lower Upper

96 100

61 168.5 157.3 235.9

98 49.9 50.2 75.4#

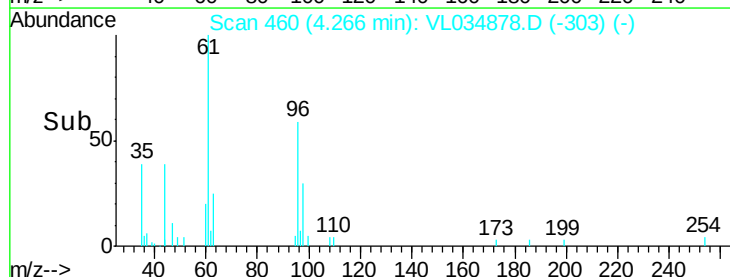


Abundance Ion 96.00 (95.70 to 96.70): VL0

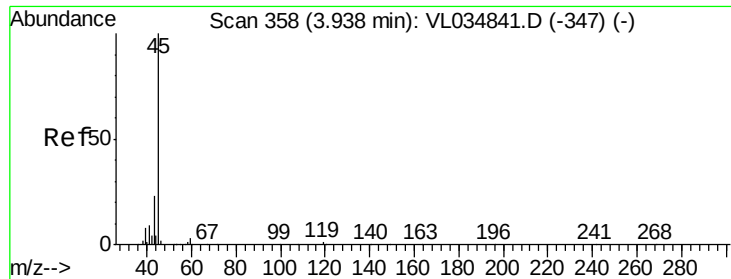
Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Time-->



Time-->



#19

Isopropyl Alcohol

Concen: 0.151 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.03 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 45 Resp: 10822

Ion Ratio Lower Upper

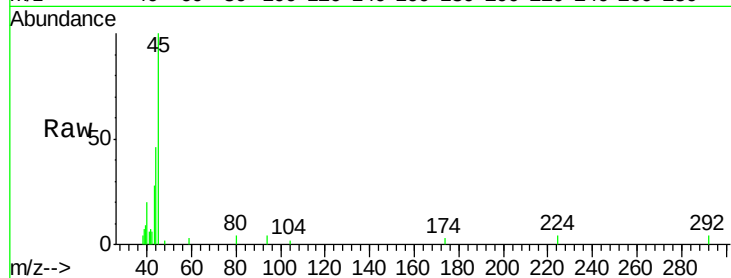
45 100

58 0.0 30.5 45.7#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

8000

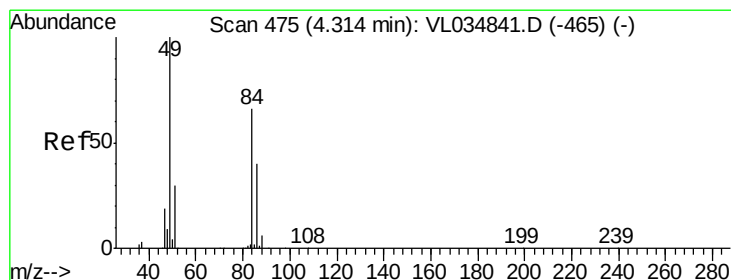
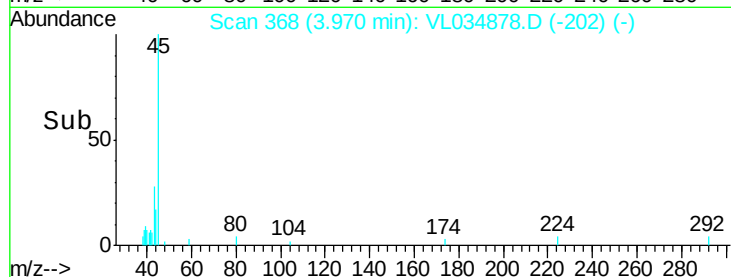
6000

4000

2000

0

Time-->



#20

Methylene Chloride

Concen: 0.254 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion: 84 Resp: 9093

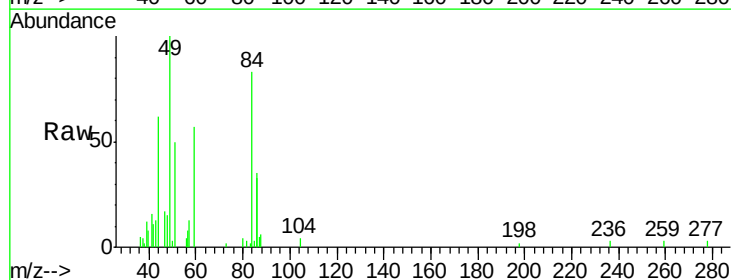
Ion Ratio Lower Upper

84 100

49 120.5 121.5 182.3#

51 59.8 36.6 55.0#

86 81.8 48.2 72.2#



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

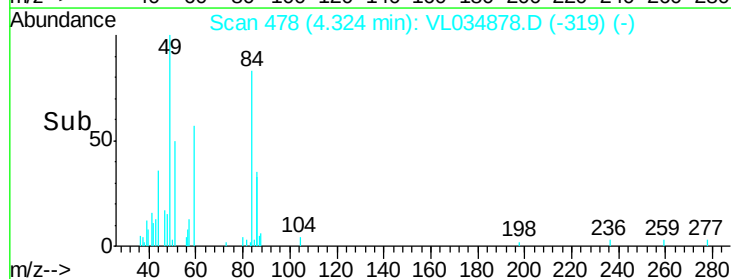
15000

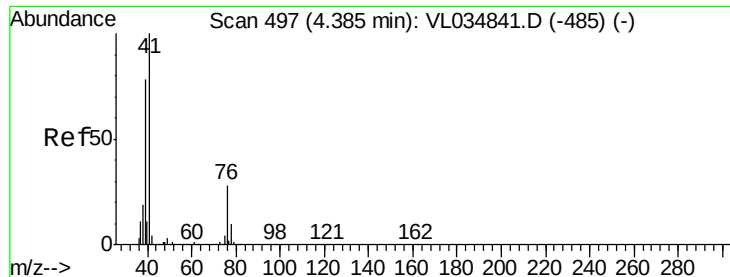
10000

5000

0

Time-->





#21

Allvl Chloride

Concen: 0.105 ppbv m

RT: 4.39 min Scan# 498

Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

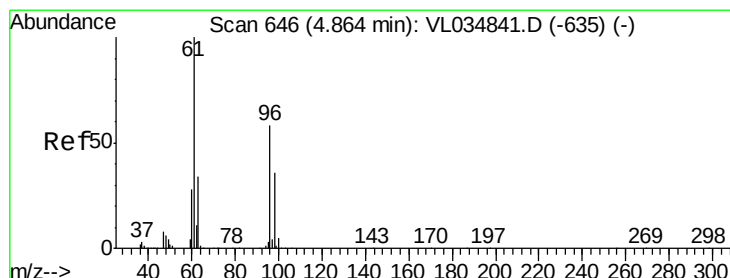
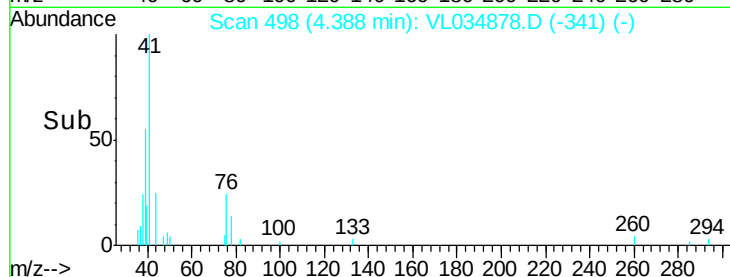
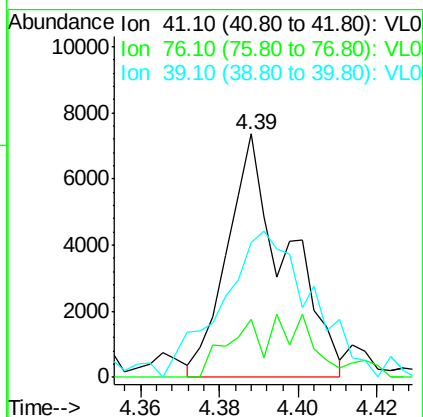
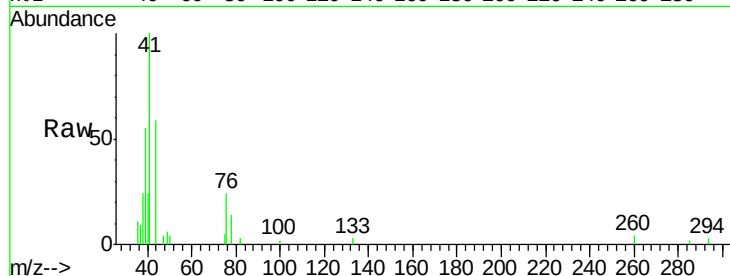
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	41	Resp:	7632
Ion Ratio	Lower	Upper	
41	100		
76	0.0	22.2	33.2#
39	95.9	62.6	93.8#

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 0.131 ppbv m

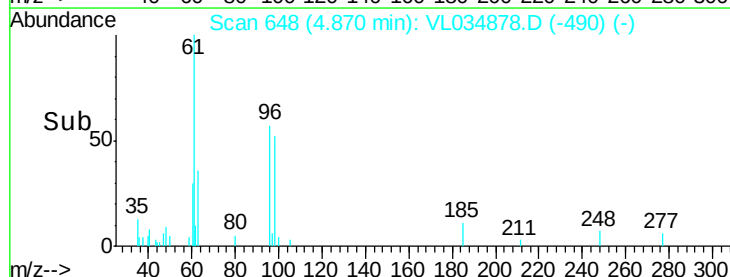
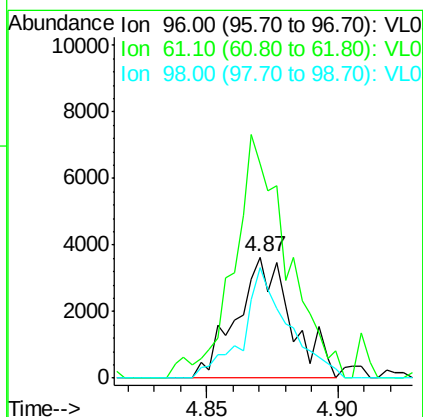
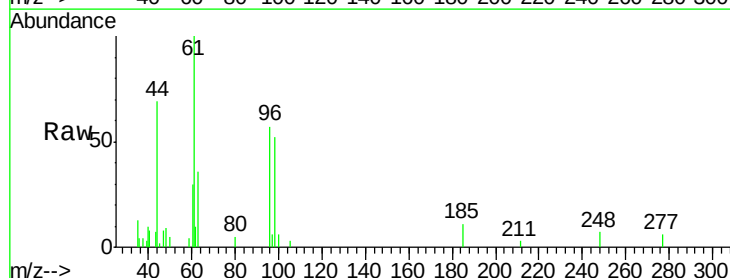
RT: 4.87 min Scan# 648

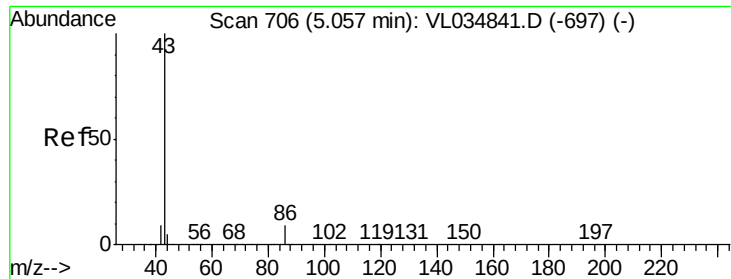
Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	96	Resp:	5246
Ion Ratio	Lower	Upper	
96	100		
61	176.8	139.0	208.6
98	91.5	50.3	75.5#





#23

Vinyl Acetate

Concen: 0.089 ppbv m

RT: 5.07 min Scan# 709

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

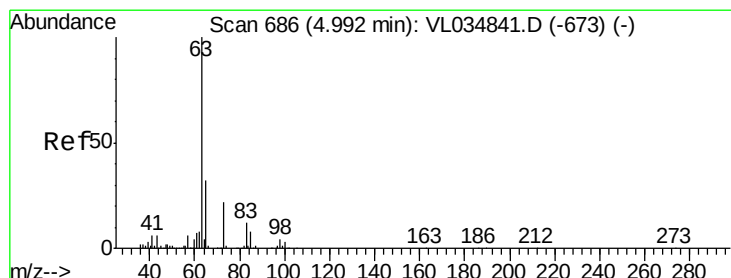
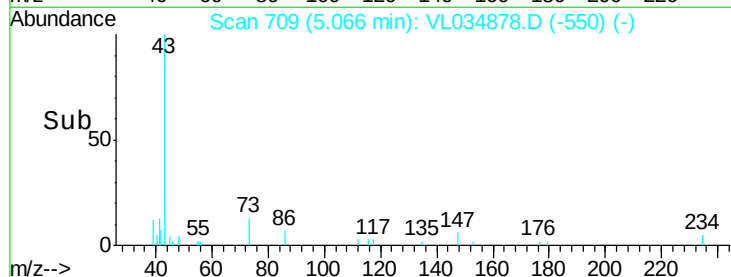
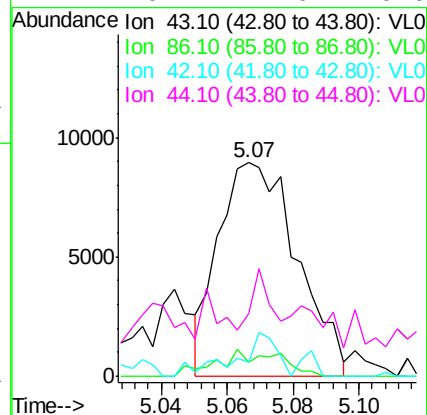
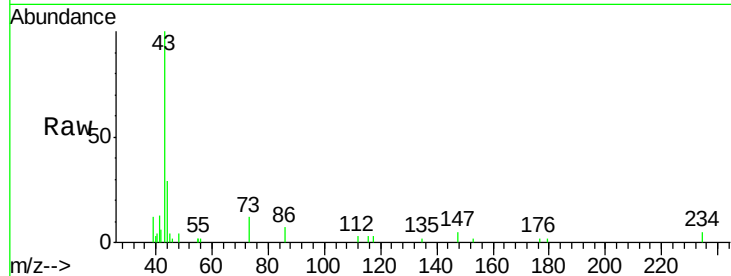
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	43	Resp:	14844
Ion	Ratio	Lower	Upper
43	100		
86	6.7	6.3	9.5
42	6.3	7.8	11.8#
44	29.1	4.0	6.0#

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#24

1,1-Dichloroethane

Concen: 0.150 ppbv

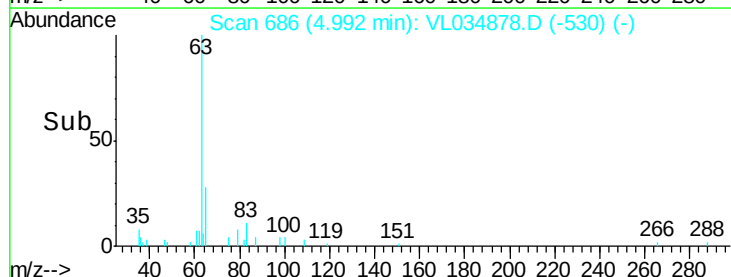
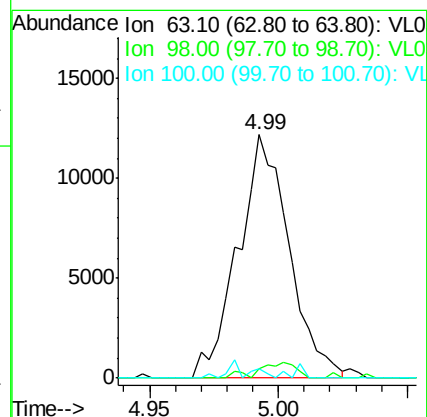
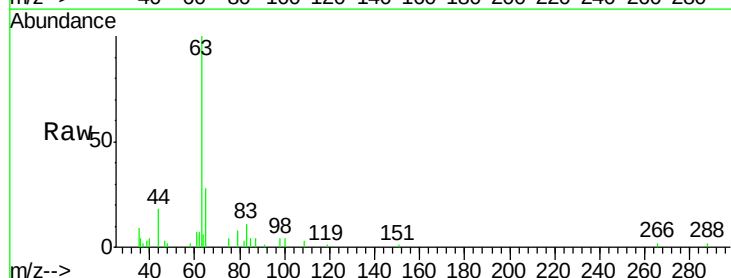
RT: 4.99 min Scan# 686

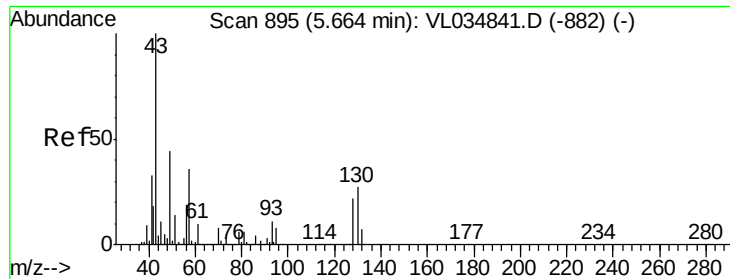
Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	63	Resp:	16854
Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.0	5.8
100	3.9	1.4	4.0





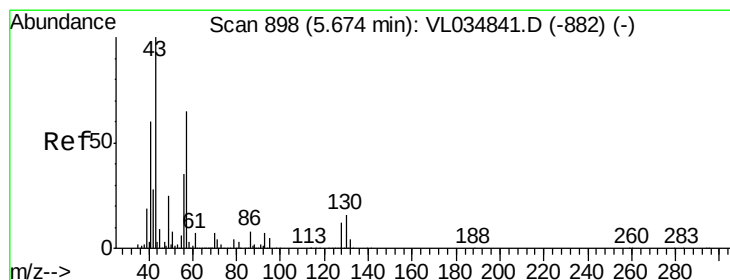
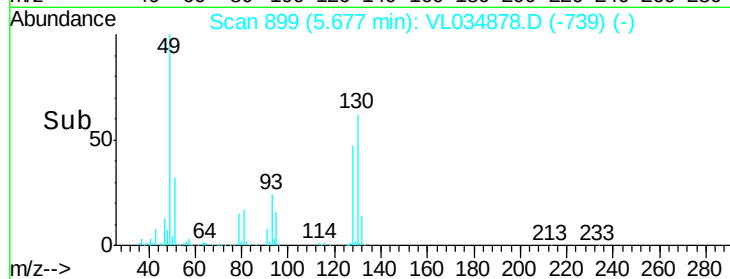
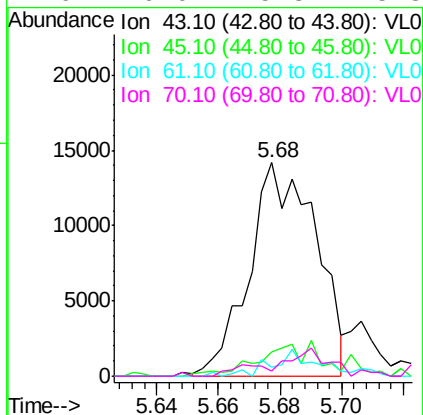
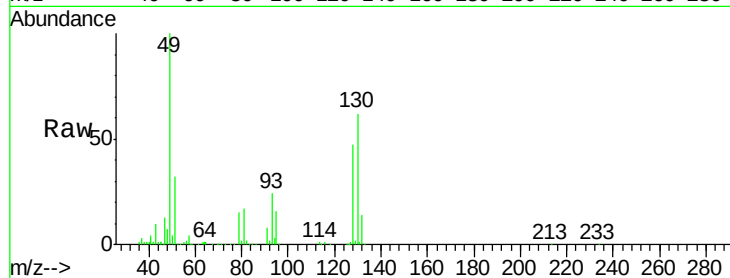
#25
Ethyl Acetate
Concen: 0.105 ppbv m
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.0	7.8	11.6#
70	0.0	5.8	8.8#

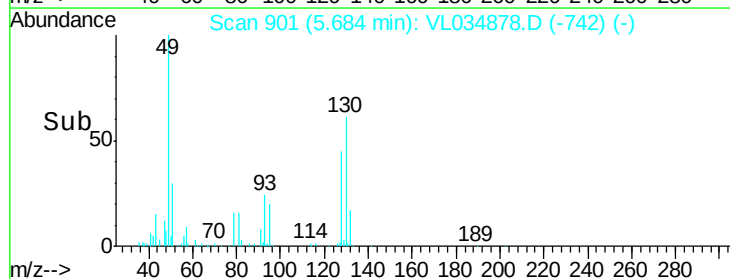
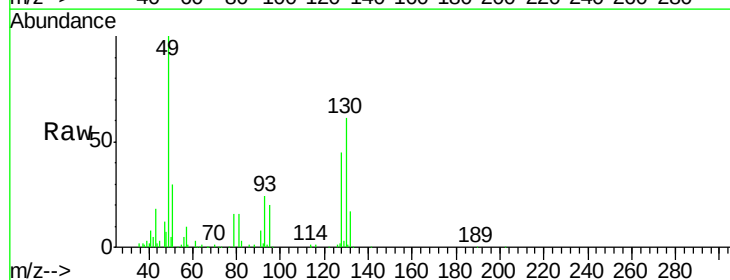
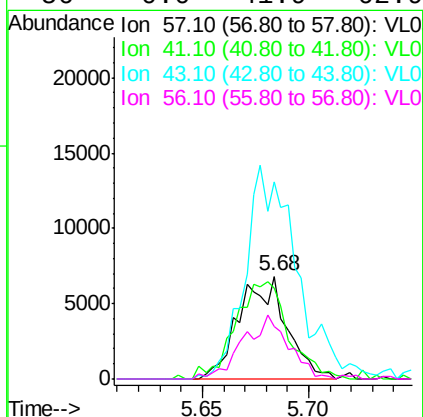
Manual Integrations
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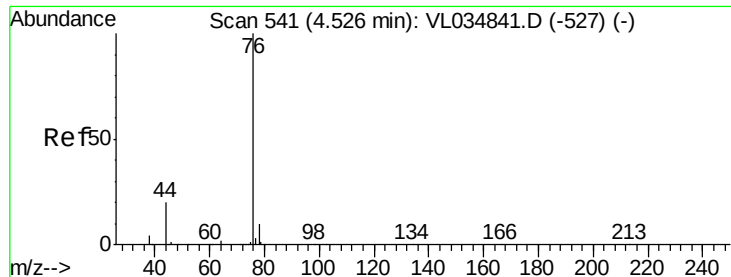
MMDadoda
3/11/2020 3:17:49 PM



#26
Hexane
Concen: 0.122 ppbv m
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.6	109.0#
43	0.0	183.8	275.6#
56	0.0	41.9	62.9#





#27

Carbon Disulfide

Concen: 0.080 ppbv m

RT: 4.53 min Scan# 543

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

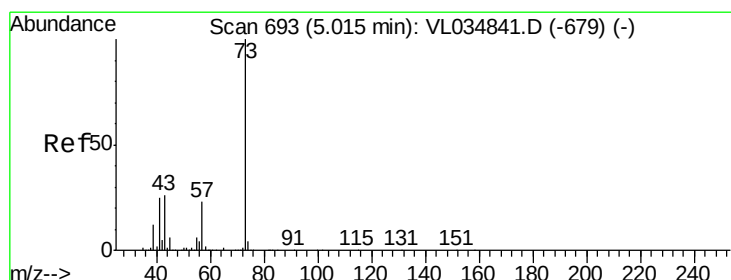
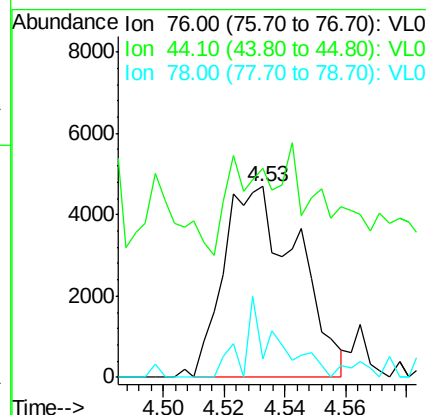
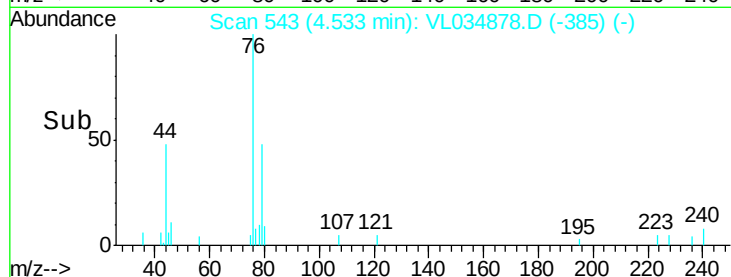
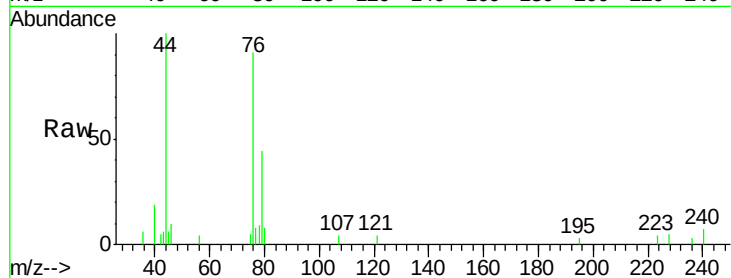
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	76	Resp:	7927
Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.2	24.2#
78	18.3	7.8	11.6#

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.113 ppbv m

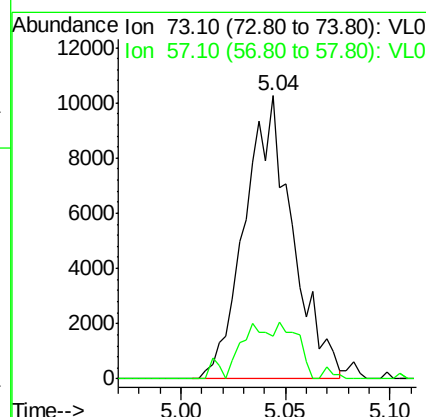
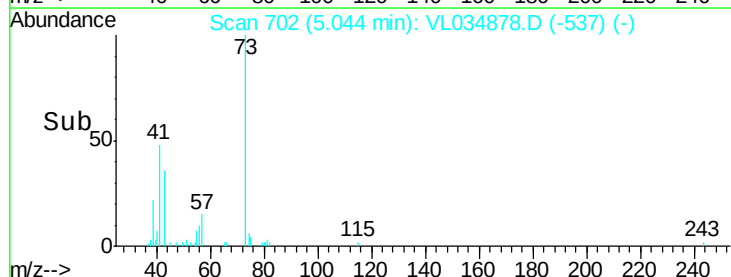
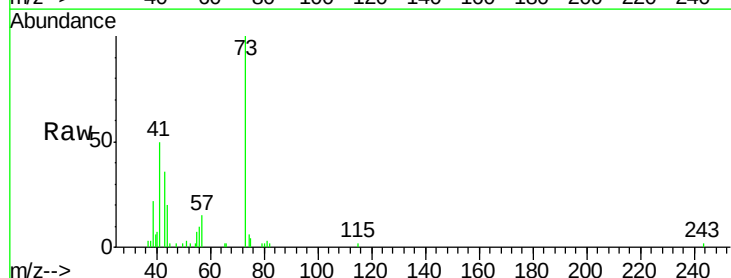
RT: 5.04 min Scan# 702

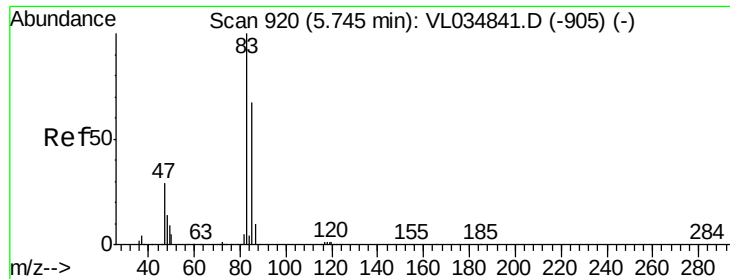
Delta R.T. 0.03 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	73	Resp:	16381
Ion	Ratio	Lower	Upper
73	100		
57	23.6	18.3	27.5





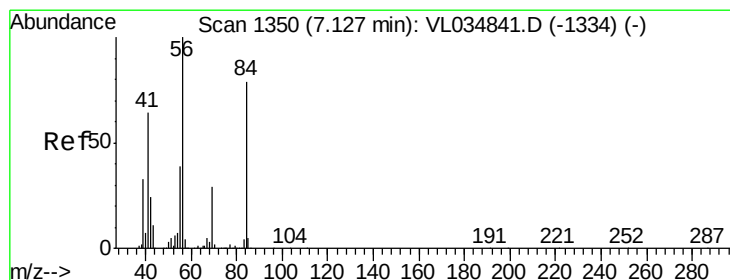
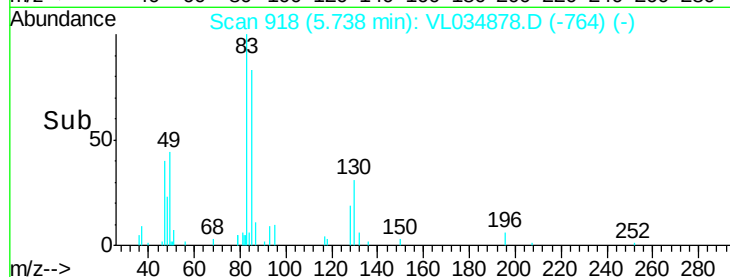
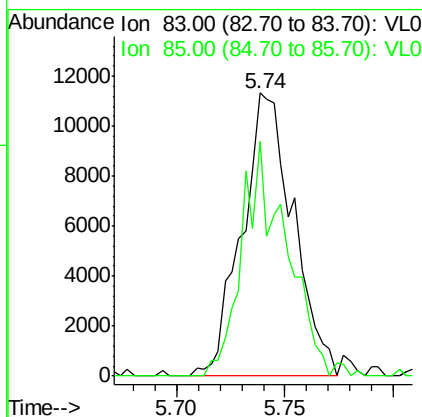
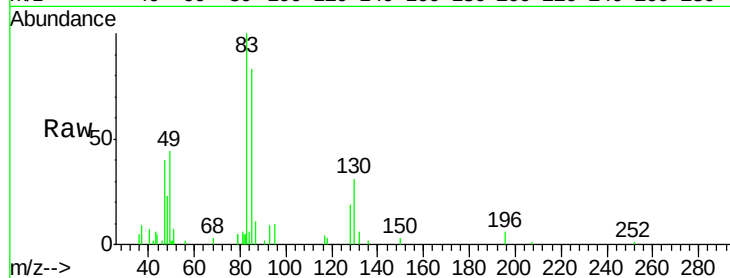
#29
Chloroform
Concen: 0.141 ppbv m
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	83	Resp	18632
Ion Ratio	100	Lower	Upper
85	83.0	53.8	80.6#

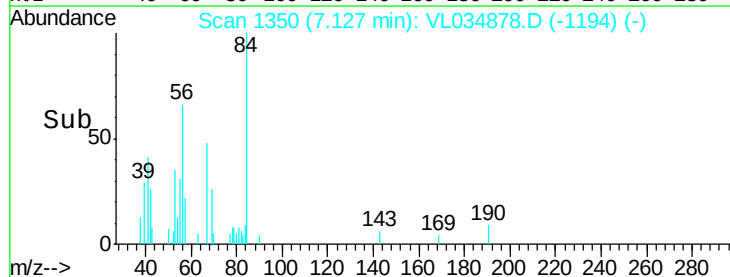
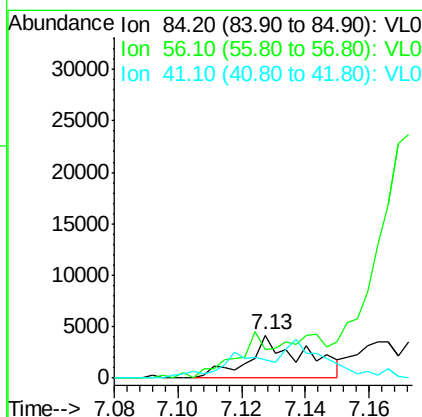
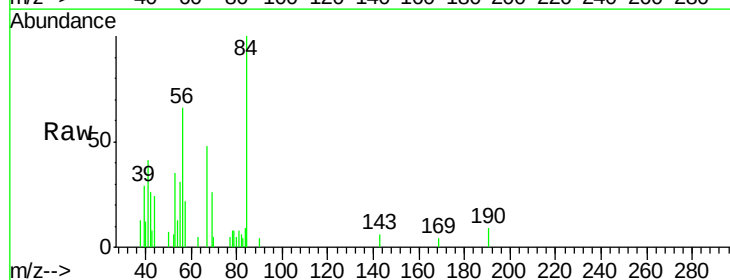
Manual Integrations
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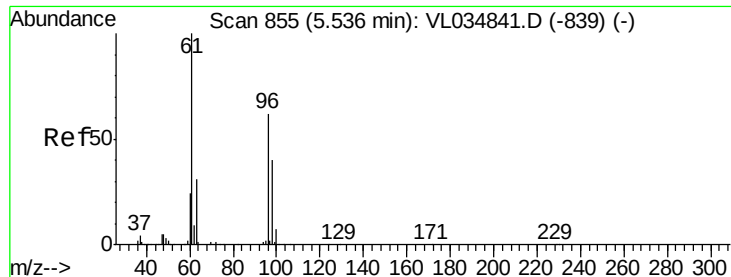
MMDadoda
3/11/2020 3:17:49 PM



#30
Cyclohexane
Concen: 0.070 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	84	Resp	5069
Ion Ratio	100	Lower	Upper
56	0.0	110.5	165.7#
41	0.0	68.2	102.4#





#31

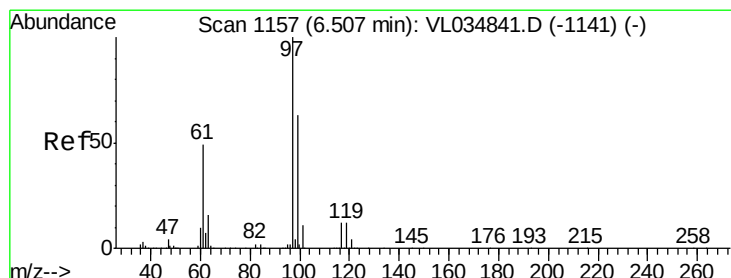
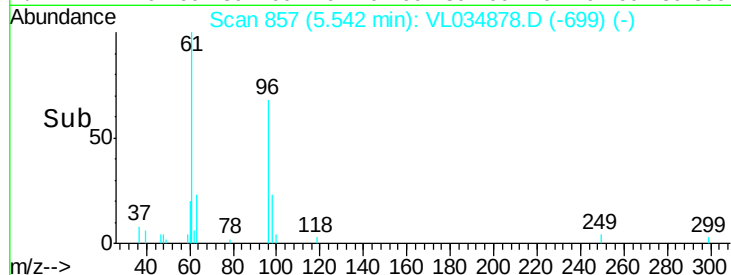
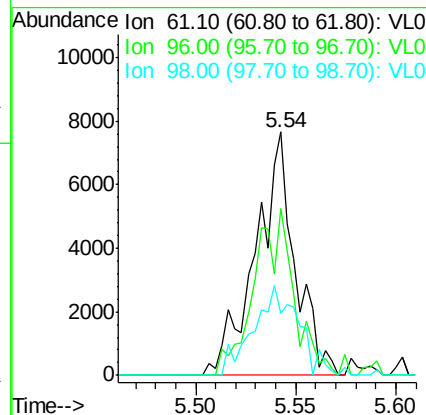
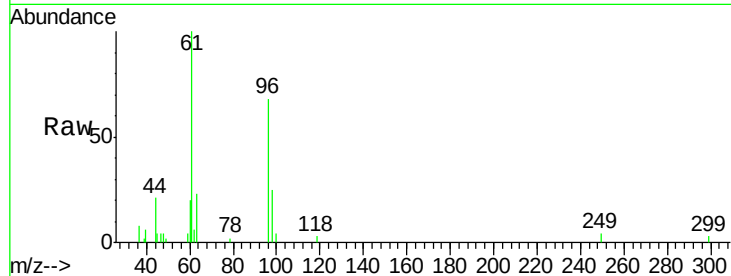
cis-1,2-Dichloroethene
Concen: 0.117 ppbv
RT: 5.54 min Scan# 857
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
61	100		
96	68.3	49.8	74.8
98	25.4	32.2	48.4

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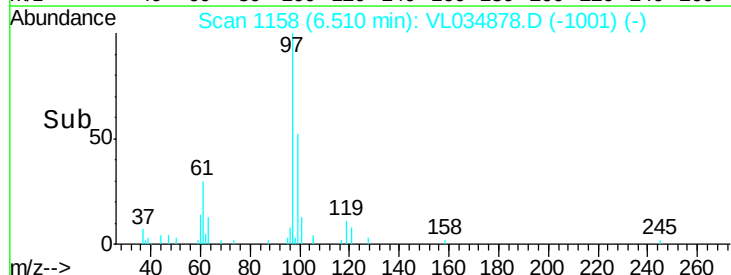
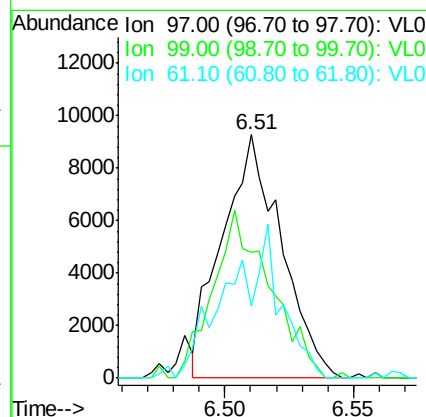
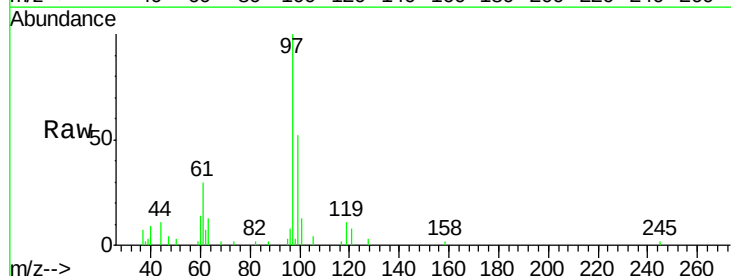
MMDadoda
3/11/2020 3:17:49 PM

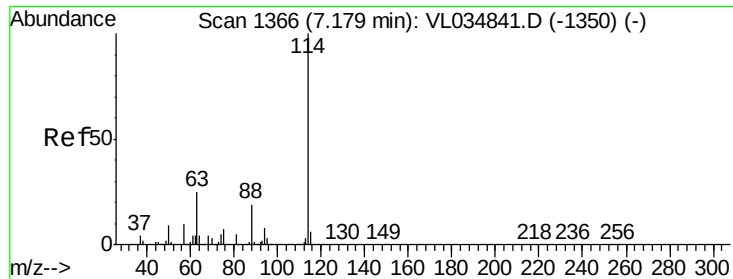


#32

1,1,1-Trichloroethane
Concen: 0.115 ppbv
RT: 6.51 min Scan# 1158
Delta R.T. 0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.5	51.1	76.7
61	57.0	39.7	59.5





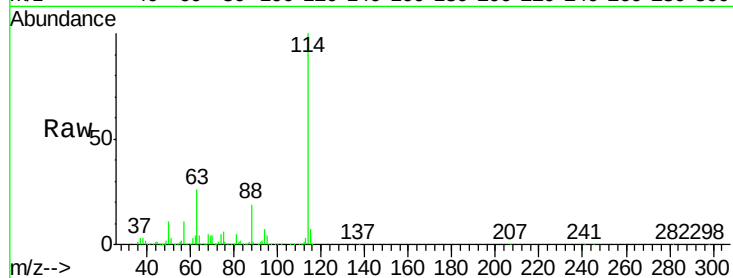
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.6	31.0
88	19.3	15.0	22.6

Manual Integrations
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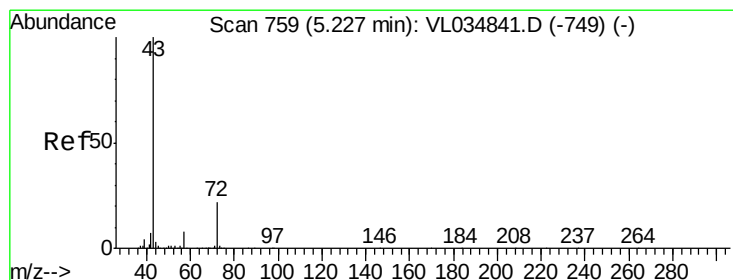
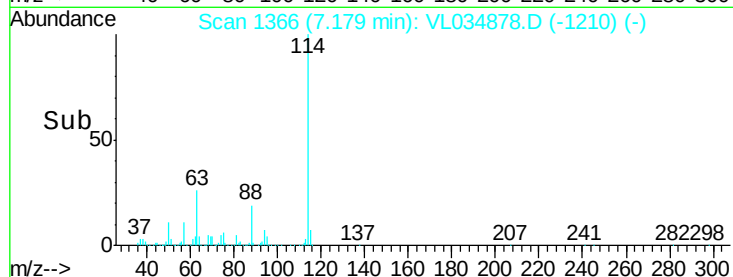
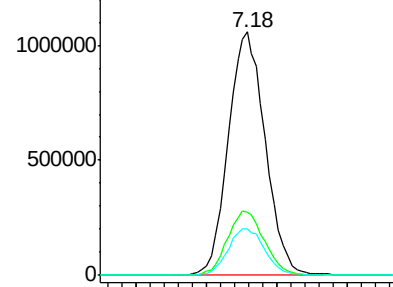
MMDadoda
 3/11/2020 3:17:49 PM



Abundance Ion 114.10 (113.80 to 114.80): V

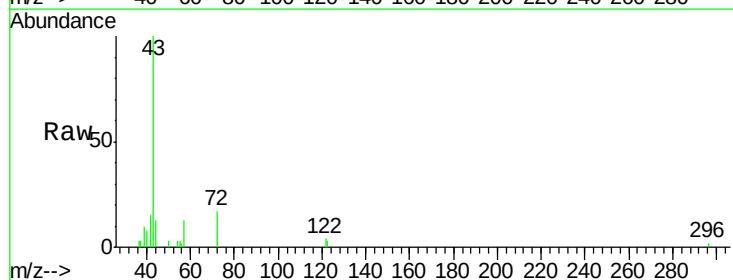
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



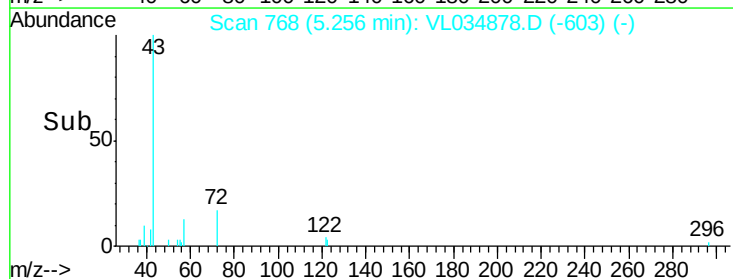
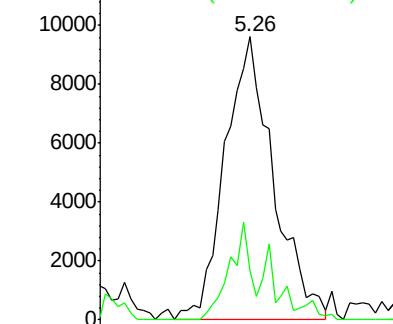
#34
 2-Butanone
 Concen: 0.128 ppbv m
 RT: 5.26 min Scan# 768
 Delta R.T. 0.03 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

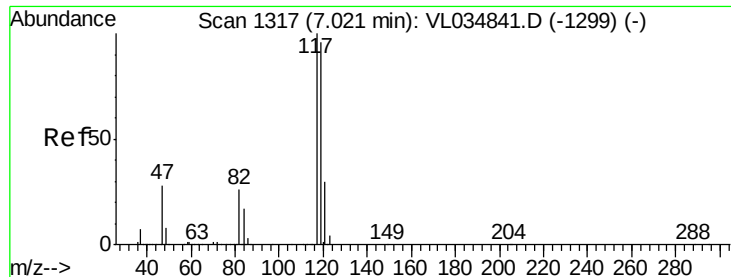
Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.6	26.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.120 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

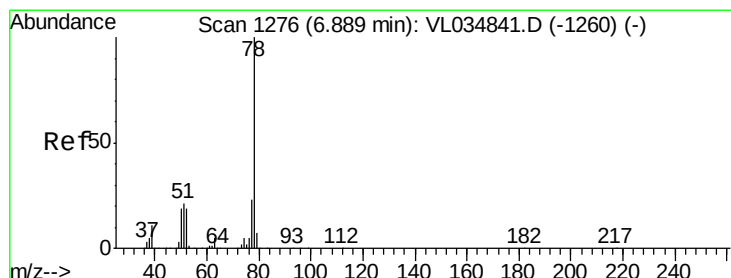
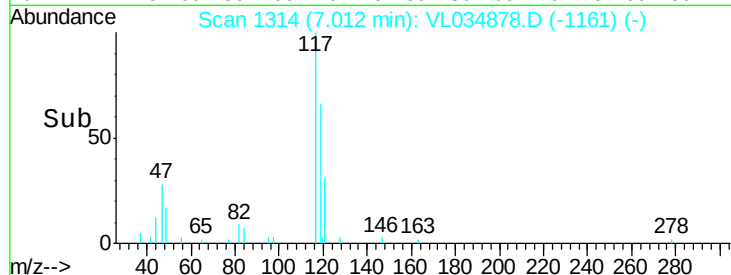
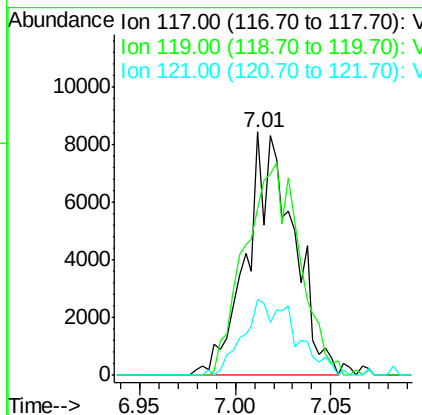
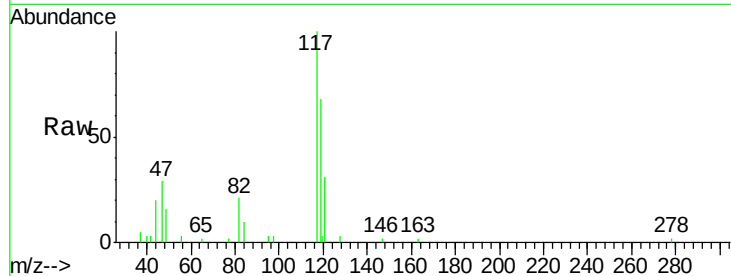
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
117	100		
119	68.3	77.0	115.4#
121	30.9	24.0	36.0

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#36

Benzene

Concen: 0.109 ppbv

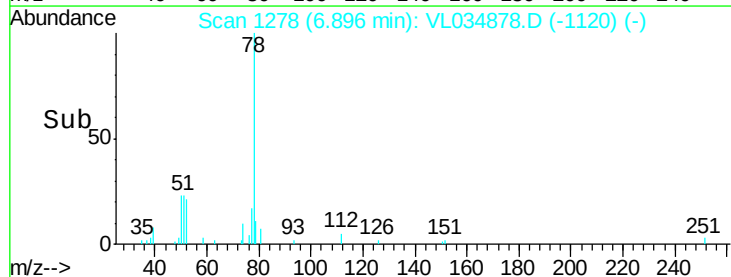
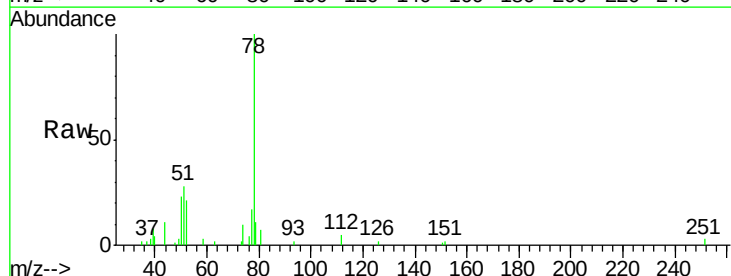
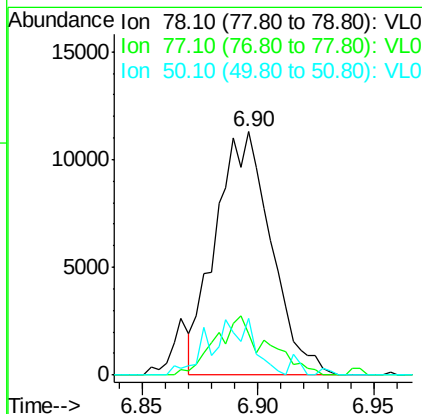
RT: 6.90 min Scan# 1278

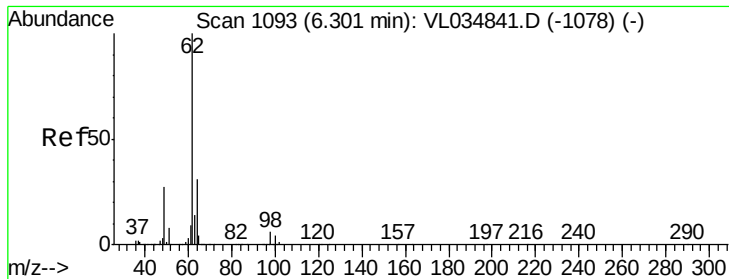
Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.1	18.2	27.2#
50	23.4	15.2	22.8#





#37

1,2-Dichloroethane

Concen: 0.150 ppbv m

RT: 6.30 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 62 Resp: 14627

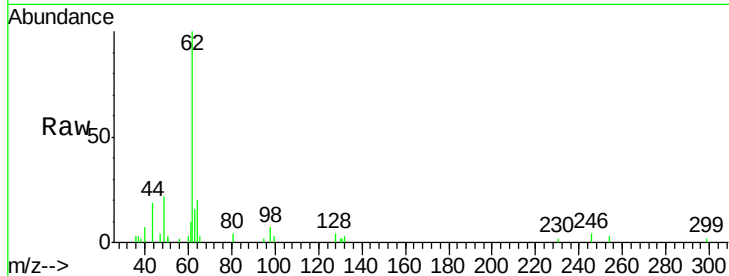
Ion Ratio Lower Upper

62 100

98 0.0 5.2 7.8#

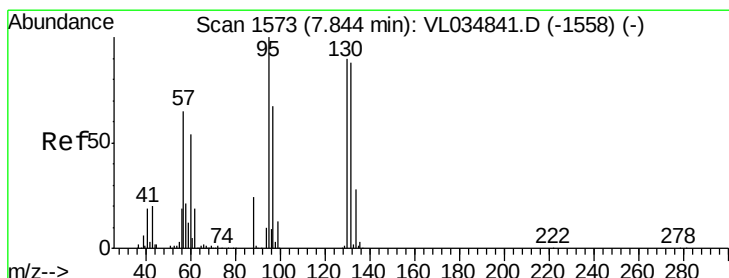
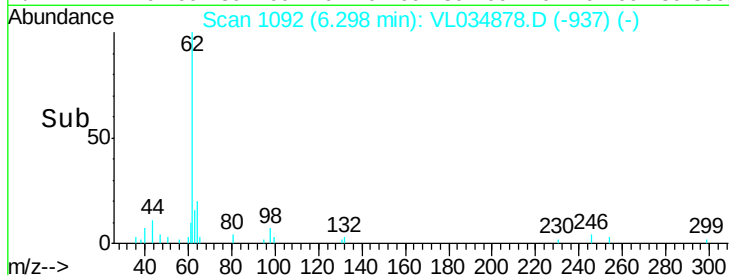
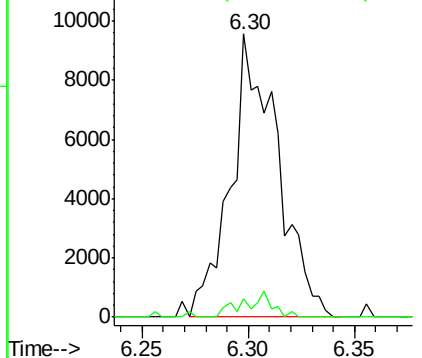
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.118 ppbv m

RT: 7.84 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:130 Resp: 7744

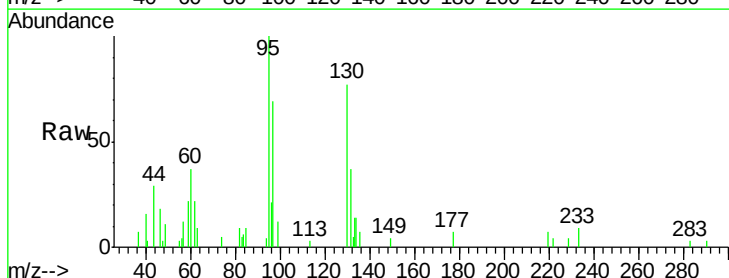
Ion Ratio Lower Upper

130 100

95 129.9 88.5 132.7

132 48.3 78.0 117.0#

97 89.7 59.3 88.9#

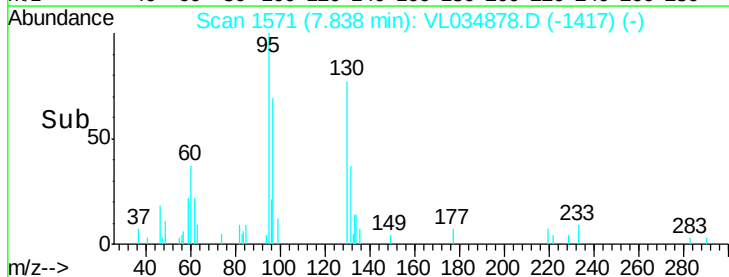
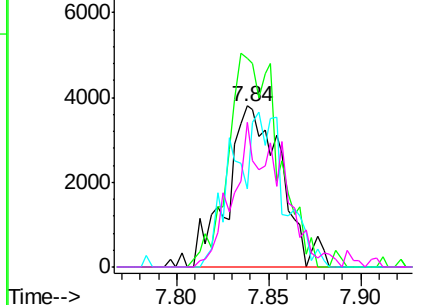


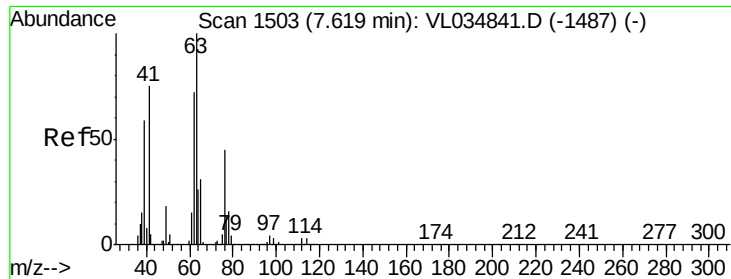
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 0.140 ppbv m

RT: 7.61 min Scan# 1501

Delta R.T. -0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

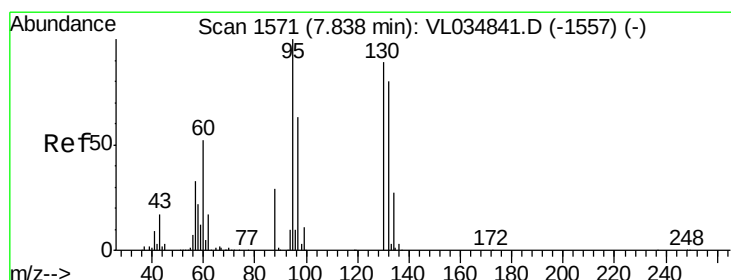
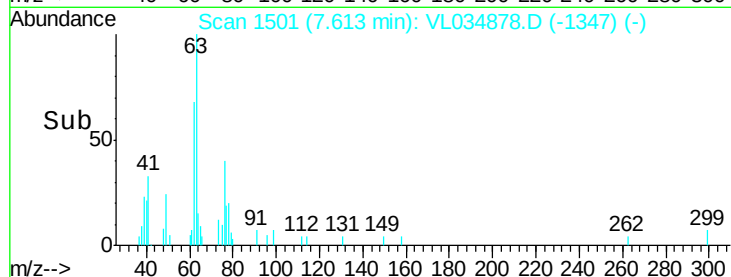
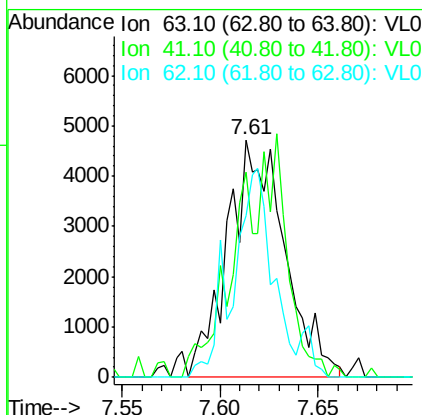
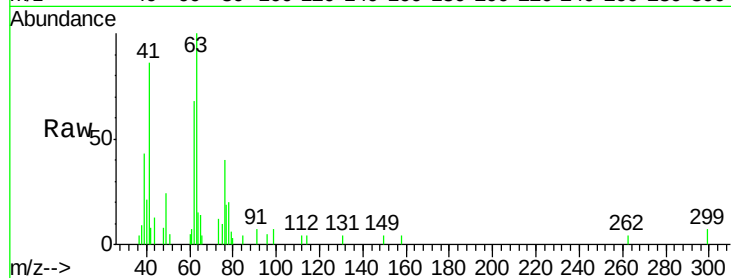
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	63	Resp:	9571
Ion	Ratio	Lower	Upper
63	100		
41	86.3	59.8	89.8
62	68.4	57.6	86.4

Manual Integrations
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#40

1,4-Dioxane

Concen: 0.093 ppbv m

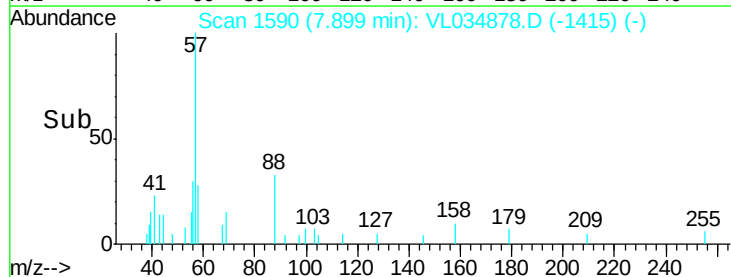
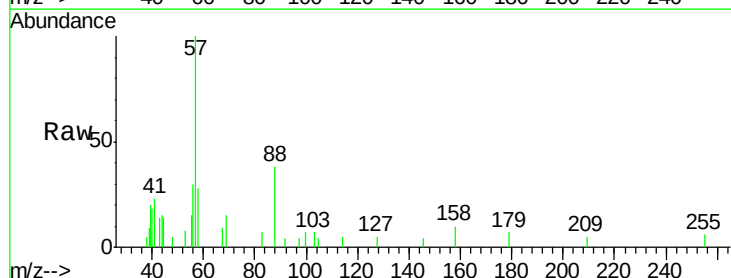
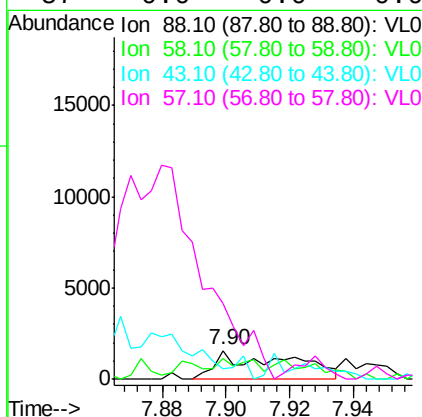
RT: 7.90 min Scan# 1590

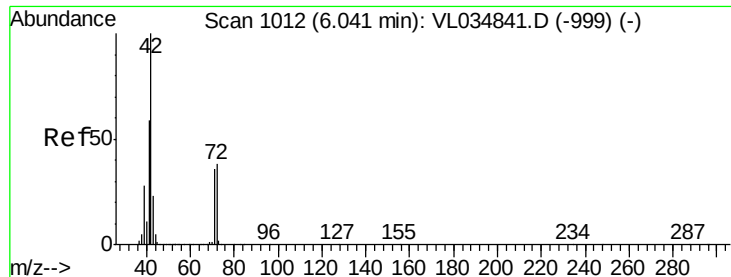
Delta R.T. 0.06 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	88	Resp:	2396
Ion	Ratio	Lower	Upper
88	100		
58	0.0	103.9	155.9#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.087 ppbv m

RT: 6.09 min Scan# 1026

Delta R.T. 0.05 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

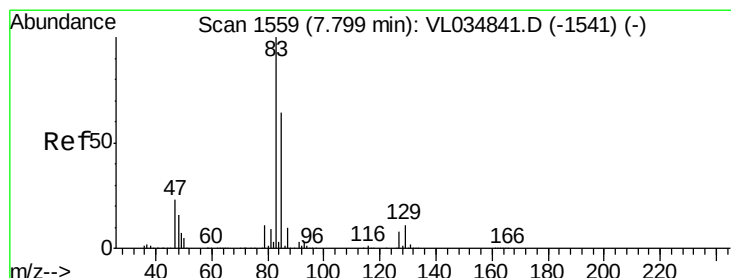
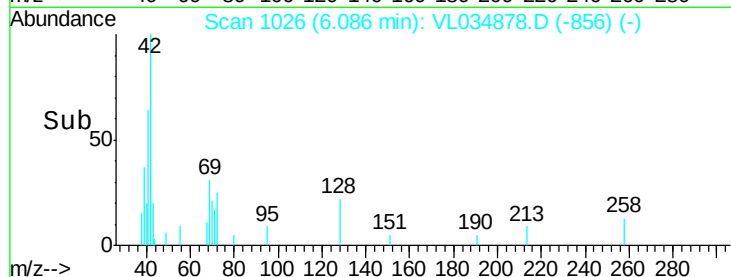
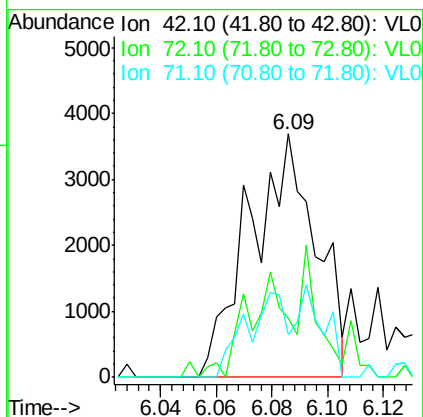
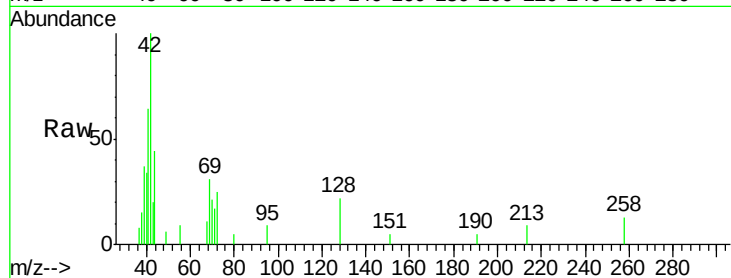
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	42	Resp:	6088
Ion Ratio		Lower	Upper
42	100		
72	0.0	30.8	46.2#
71	0.0	30.1	45.1#

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.103 ppbv m

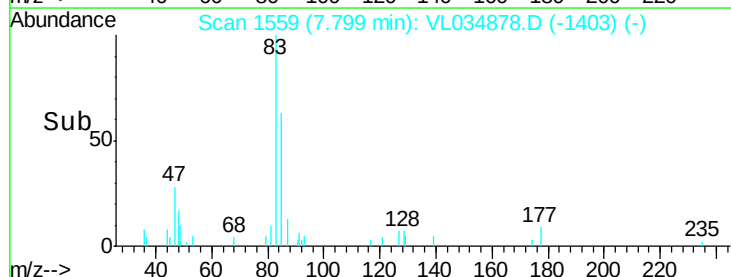
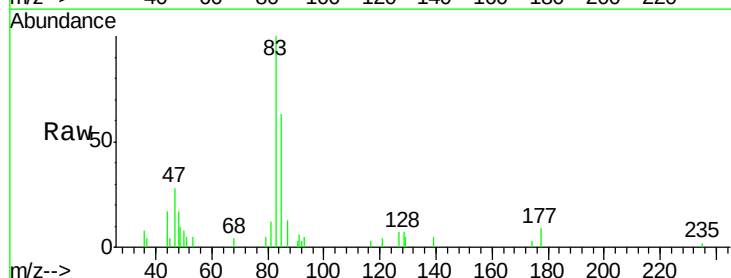
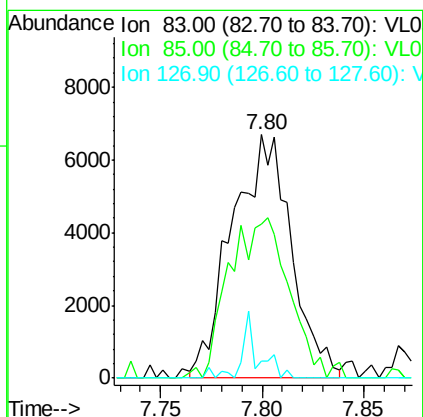
RT: 7.80 min Scan# 1559

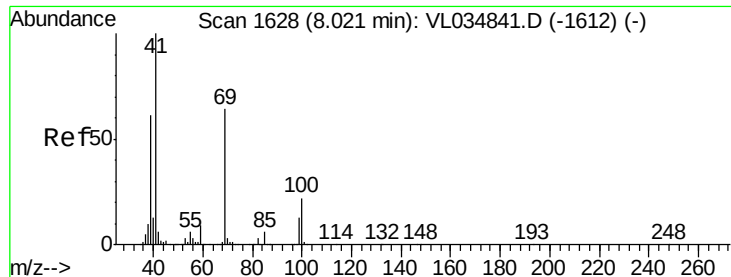
Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	83	Resp:	13596
Ion Ratio		Lower	Upper
83	100		
85	63.0	51.4	77.2
127	6.9	6.2	9.4





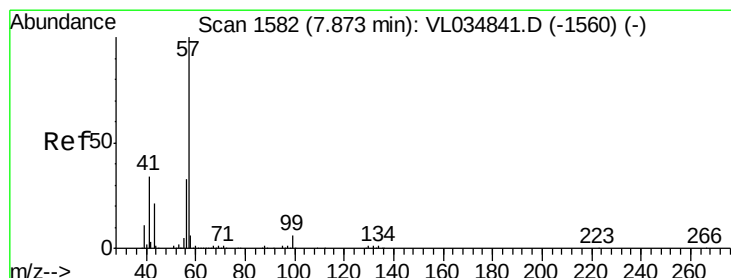
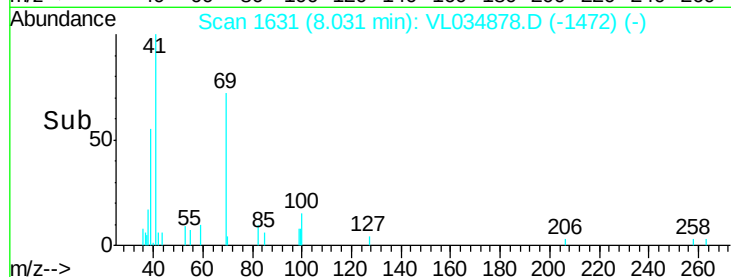
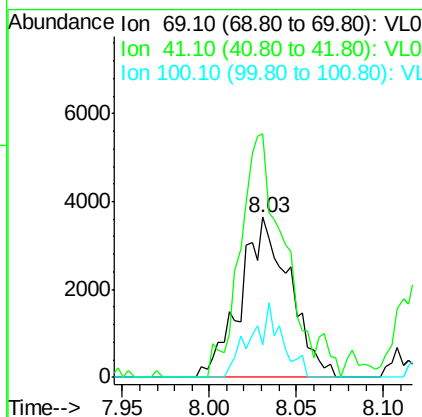
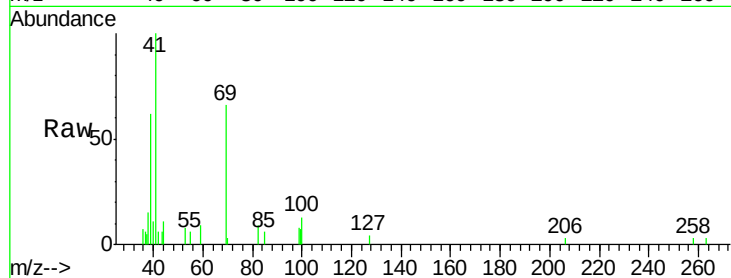
#43
Methyl Methacrylate
Concen: 0.099 ppbv m
RT: 8.03 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	123.2	184.8#
100	0.0	26.9	40.3#

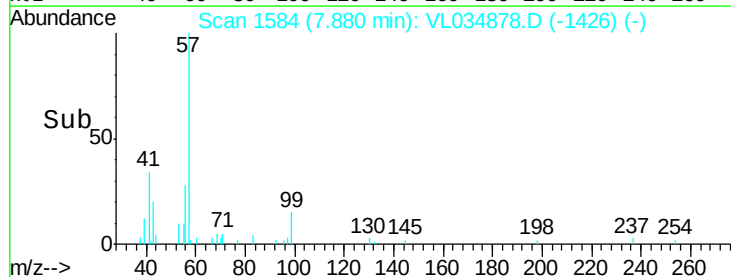
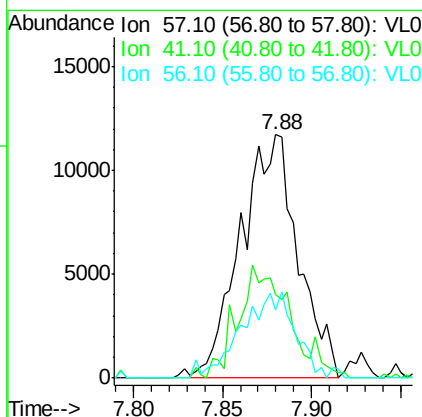
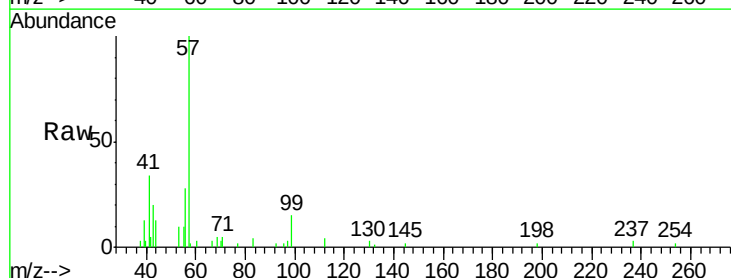
Manual Integrations
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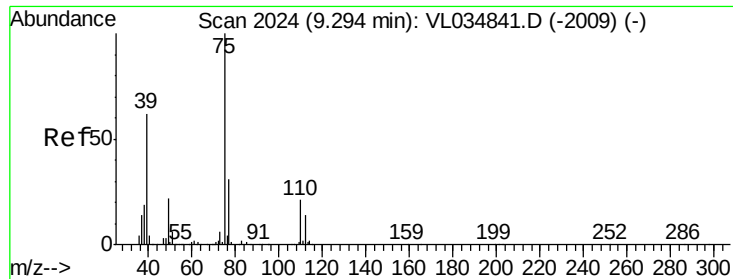
MMDadoda
3/11/2020 3:17:49 PM



#44
2,2,4-Trimethylpentane
Concen: 0.090 ppbv m
RT: 7.88 min Scan# 1584
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
57	100		
41	42.2	26.2	39.4#
56	0.0	25.0	37.4#





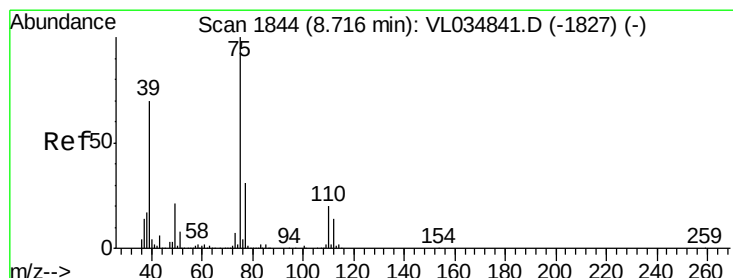
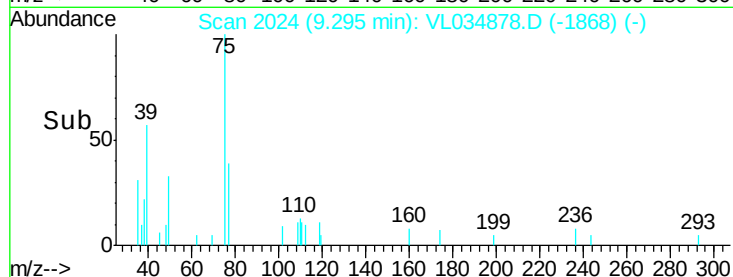
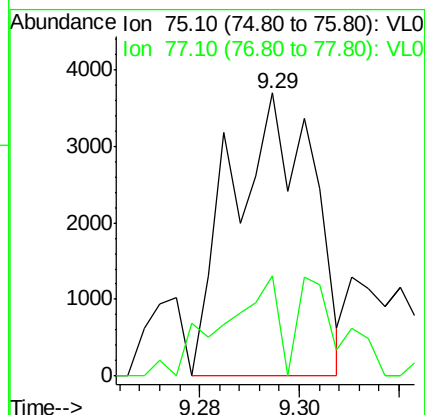
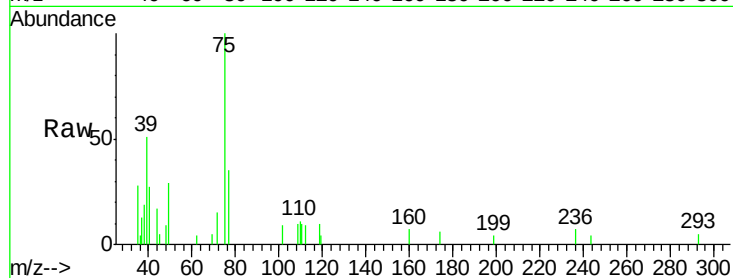
#45
t-1,3-Dichloropropene
Concen: 0.049 ppbv m
RT: 9.29 min Scan# 2024
Delta R.T. 0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion: 75 Resp: 4172
Ion Ratio Lower Upper
75 100
77 35.4 24.6 37.0

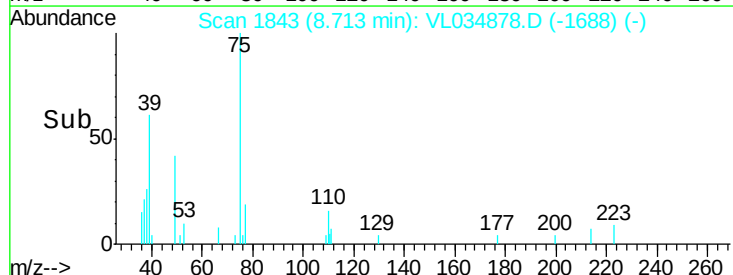
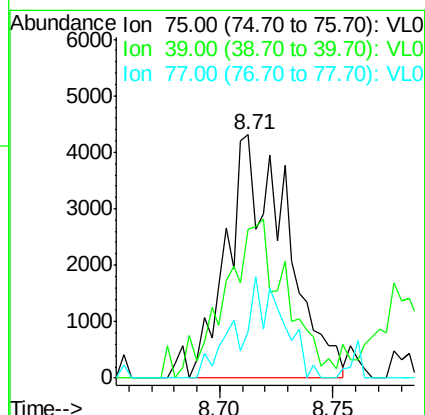
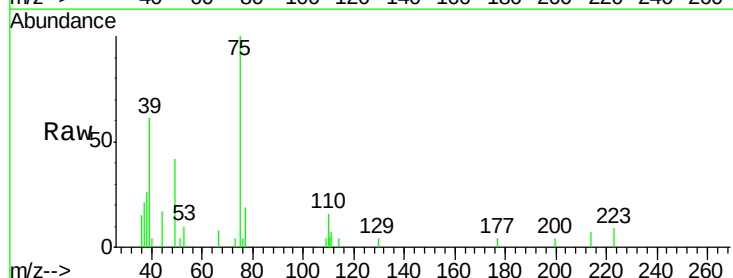
Manual Integrations
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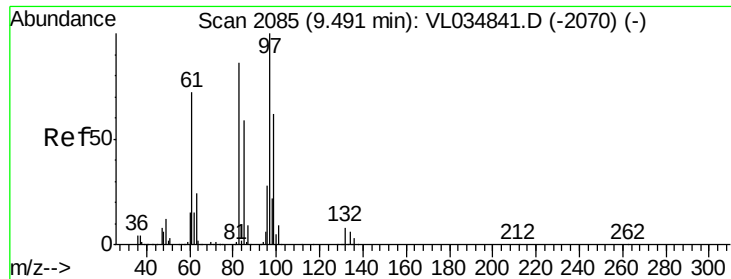
MMDadoda
3/11/2020 3:17:49 PM



#46
cis-1,3-Dichloropropene
Concen: 0.077 ppbv m
RT: 8.71 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion: 75 Resp: 7797
Ion Ratio Lower Upper
75 100
39 61.0 55.7 83.5
77 19.3 24.7 37.1#





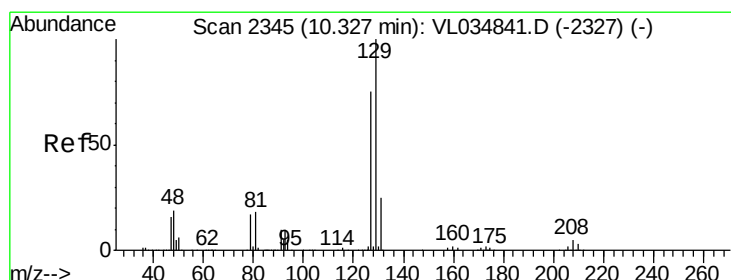
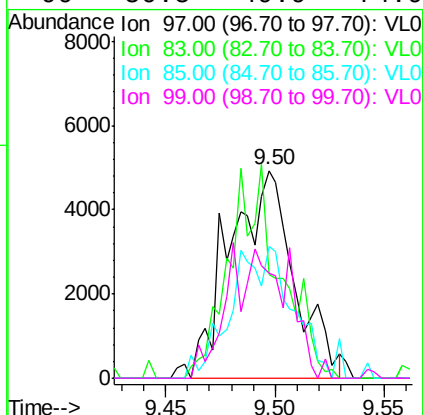
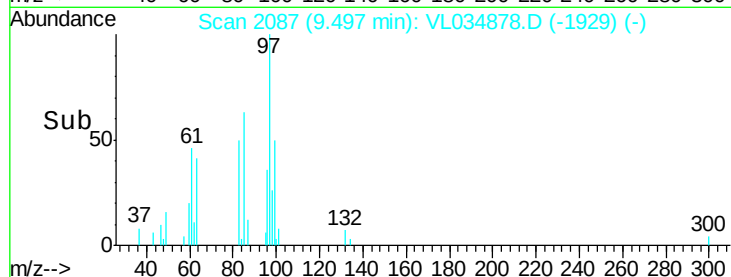
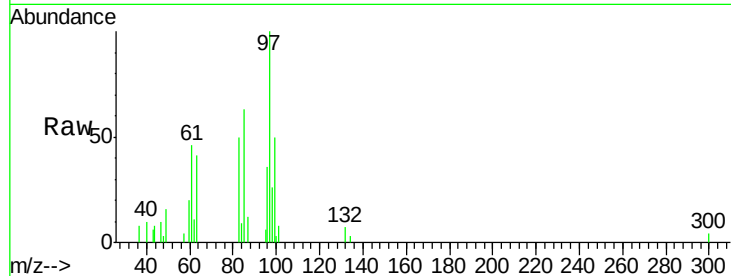
#47
 1,1,2-Trichloroethane
 Concen: 0.144 ppbv m
 RT: 9.50 min Scan# 2087
 Delta R.T. 0.01 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
97	100		
83	49.7	68.6	102.8#
85	63.2	46.9	70.3
99	50.5	49.9	74.9

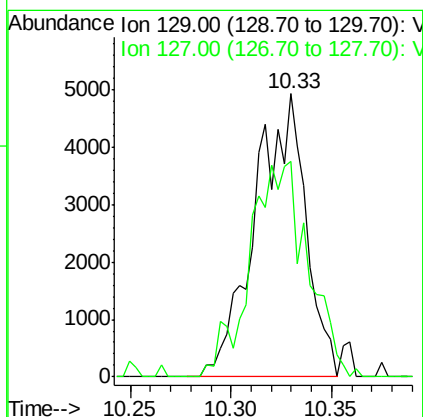
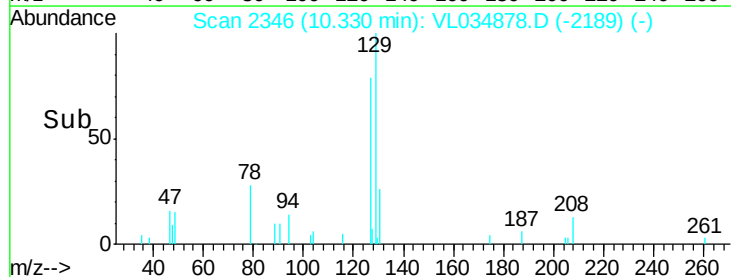
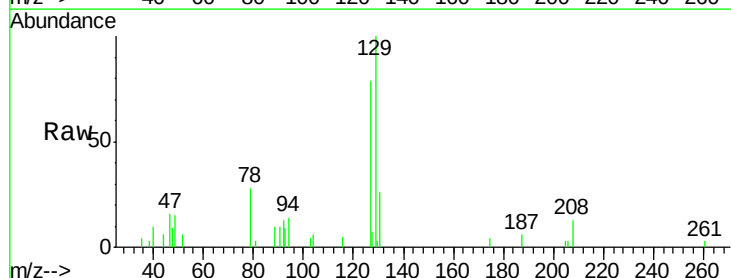
Manual Integrations
 APPROVED

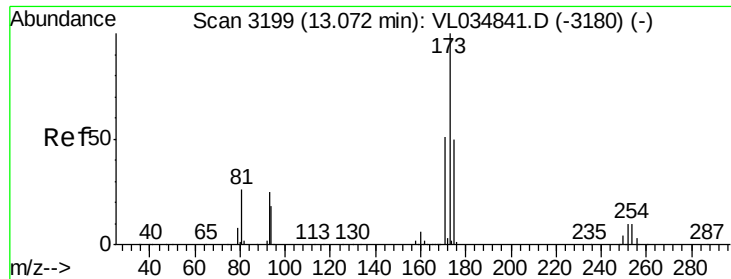
MMDadoda
 3/11/2020 3:17:49 PM



#48
 Dibromochloromethane
 Concen: 0.076 ppbv m
 RT: 10.33 min Scan# 2346
 Delta R.T. 0.00 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
129	100		
127	86.7	39.6	118.7





#49

Bromoform

Concen: 0.074 ppbv m

RT: 13.07 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

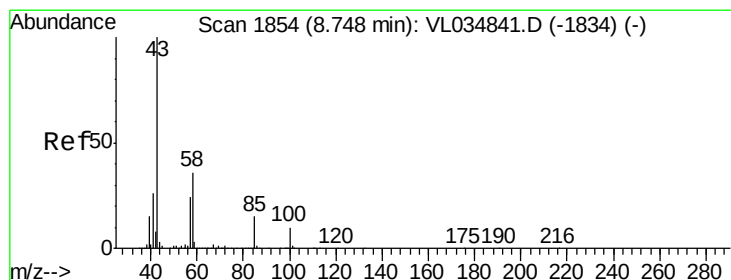
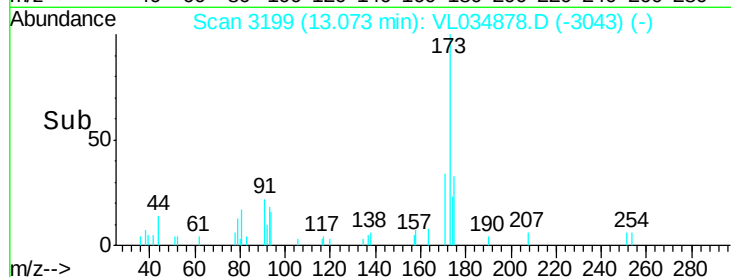
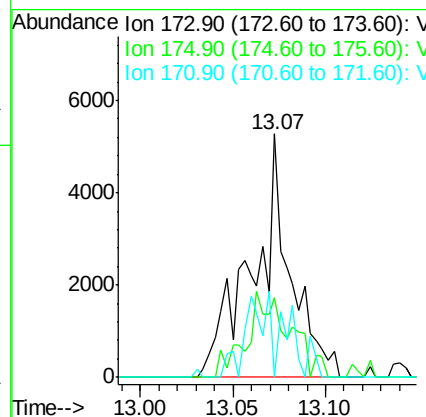
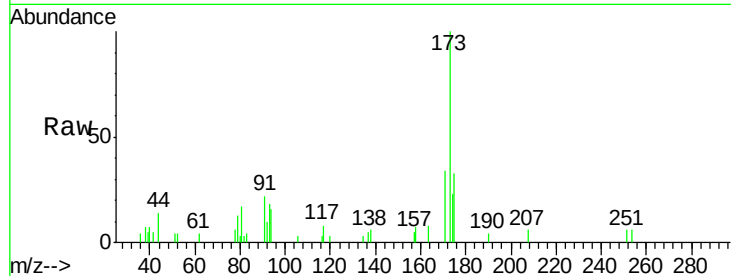
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	173	Resp:	7490
Ion Ratio	Lower	Upper	
173	100		
175	0.0	39.6	59.4#
171	0.0	41.0	61.6#

Manual Integrations
APPROVED

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3/11/2020 3:17:49 PM



#50

4-Methyl-2-Pentanone

Concen: 0.088 ppbv m

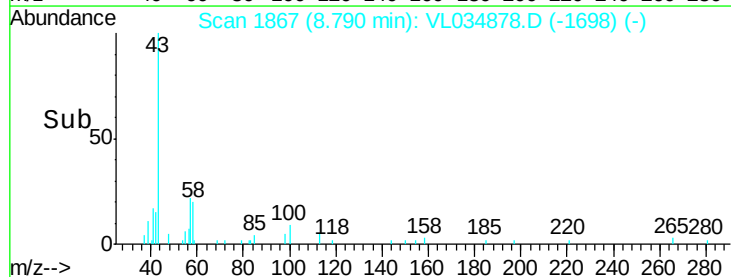
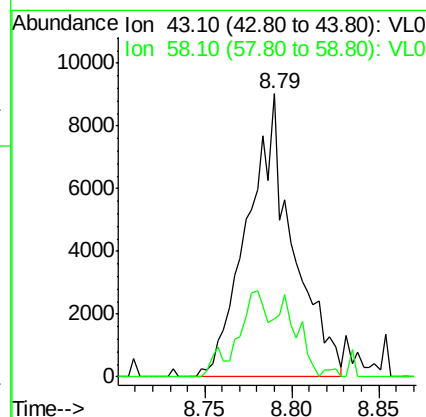
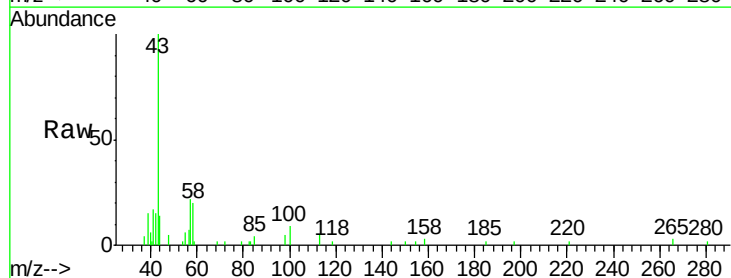
RT: 8.79 min Scan# 1867

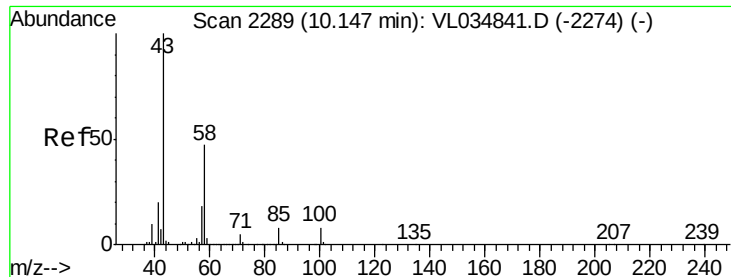
Delta R.T. 0.04 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	43	Resp:	16348
Ion Ratio	Lower	Upper	
43	100		
58	34.7	28.6	42.8





#51

2-Hexanone

Concen: 0.078 ppbv m

RT: 10.19 min Scan# 2304

Delta R.T. 0.05 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

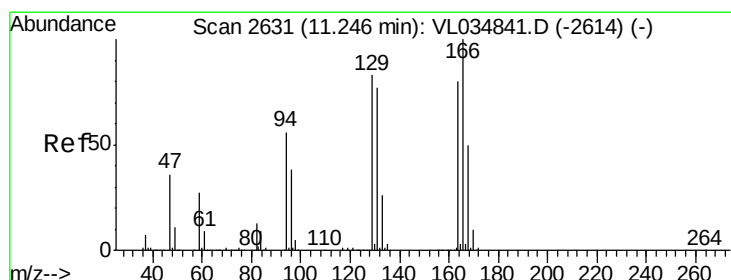
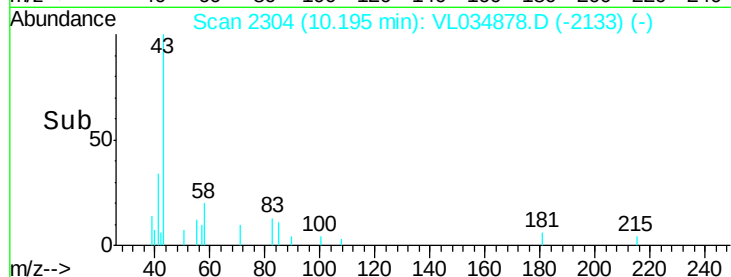
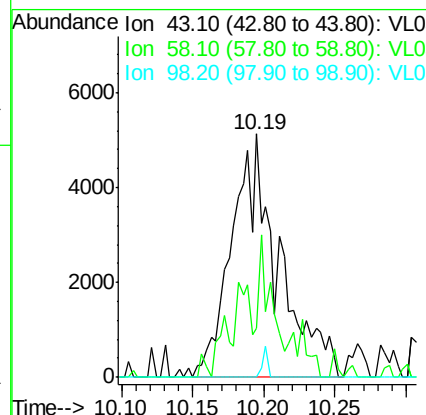
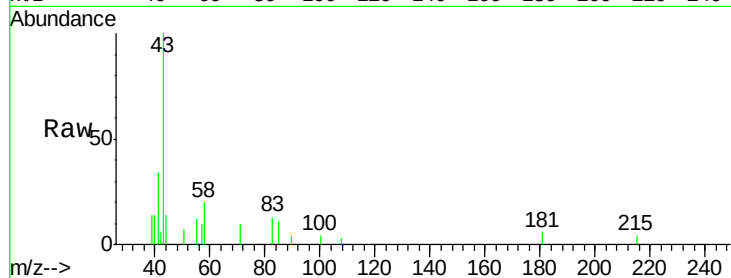
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	43	Resp:	11713
Ion Ratio	Lower	Upper	
43	100		
58	0.0	38.6	58.0#
98	1.1	0.1	0.1#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.111 ppbv m

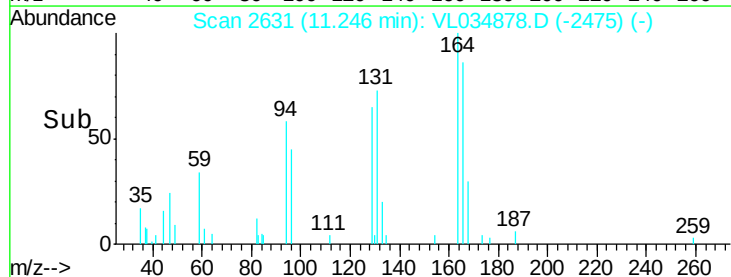
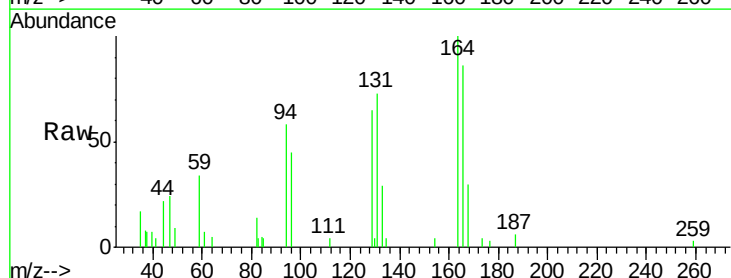
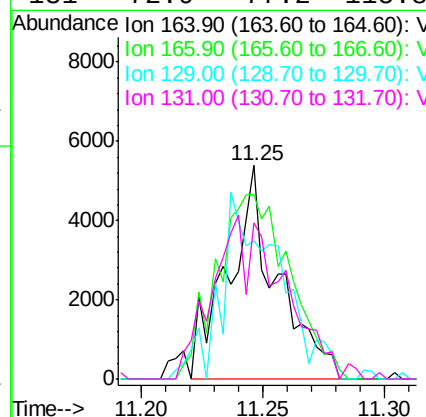
RT: 11.25 min Scan# 2631

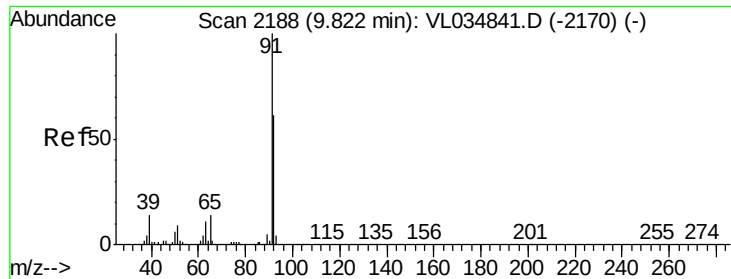
Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	164	Resp:	7546
Ion Ratio	Lower	Upper	
164	100		
166	86.1	100.0	150.0#
129	64.6	83.1	124.7#
131	72.9	77.2	115.8#





#53

Toluene

Concen: 0.084 ppbv m

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 91 Resp: 16794

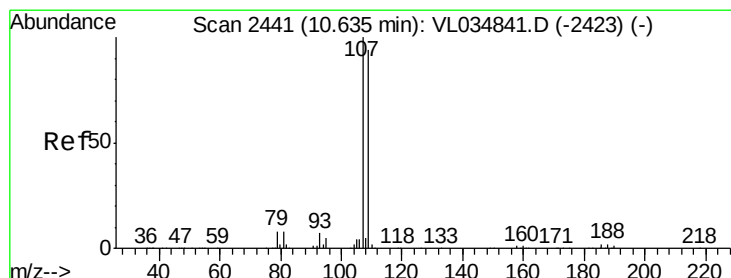
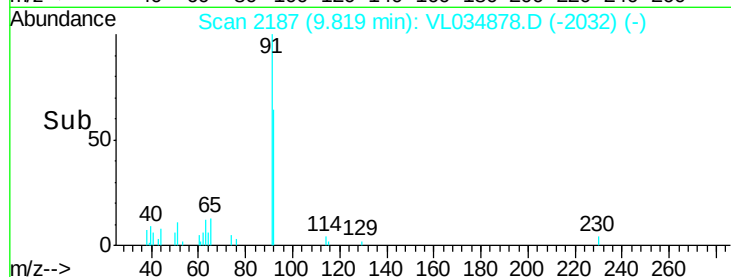
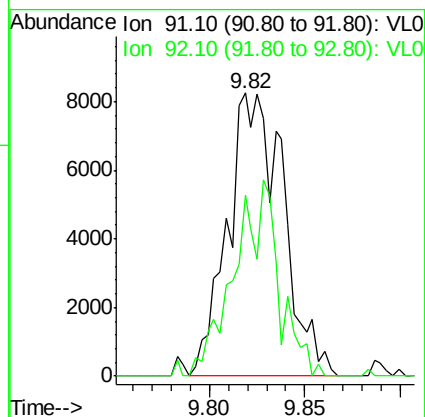
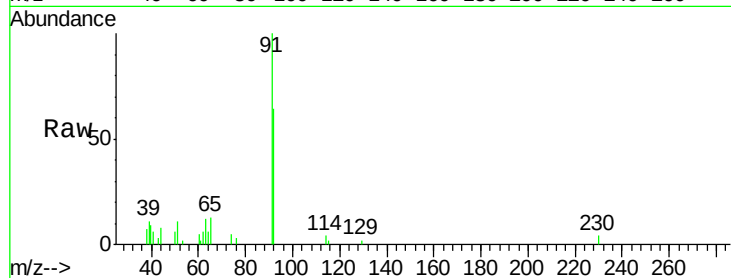
Ion Ratio Lower Upper

91 100

92 0.0 48.6 72.8#

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 0.115 ppbv m

RT: 10.64 min Scan# 2441

Delta R.T. 0.00 min

Lab File: VL034878.D

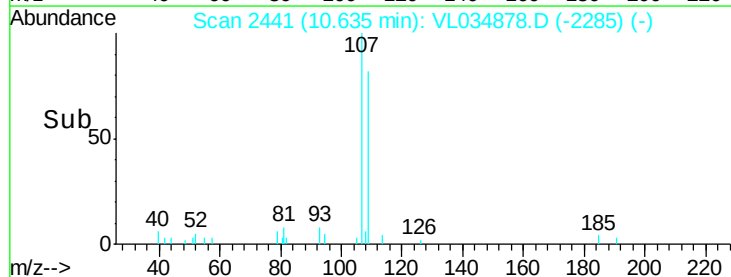
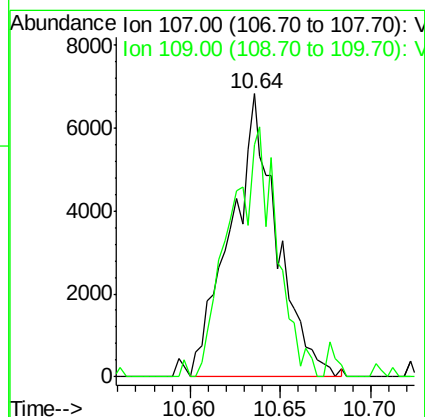
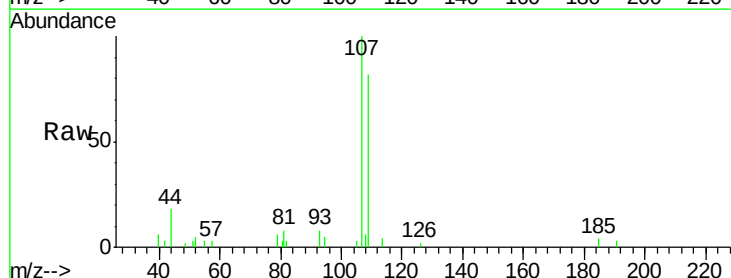
Acq: 10 Mar 2020 22:50

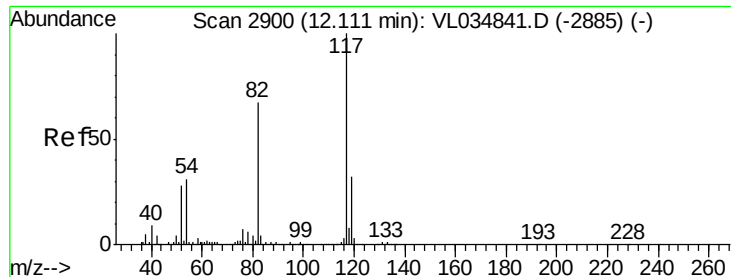
Tgt Ion: 107 Resp: 12121

Ion Ratio Lower Upper

107 100

109 82.0 74.9 112.3





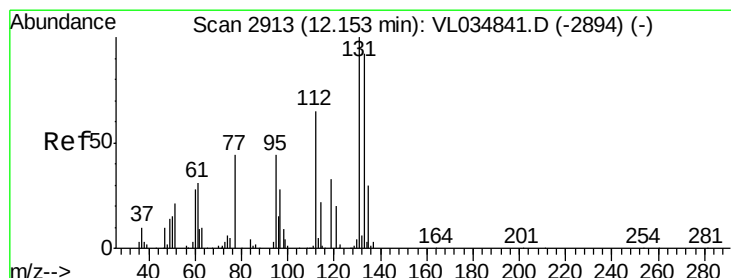
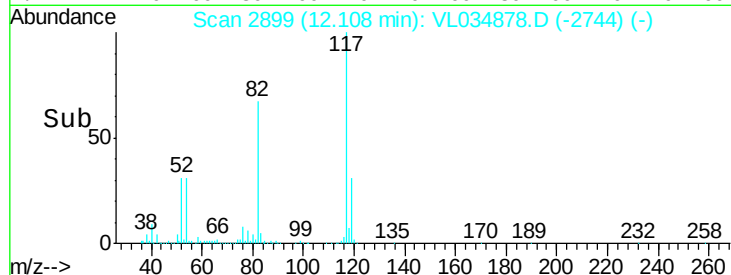
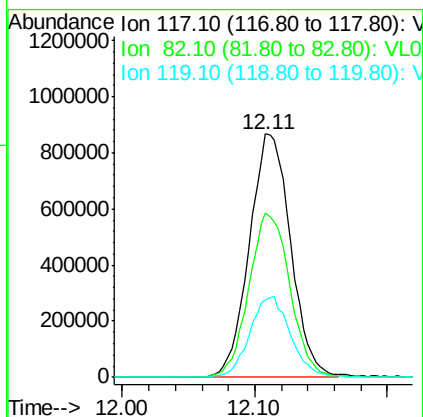
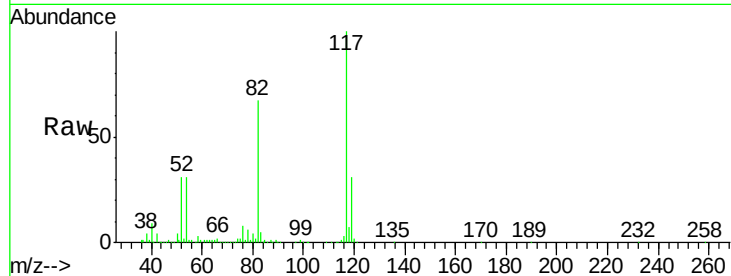
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.6	51.1	76.7
119	32.8	27.3	40.9

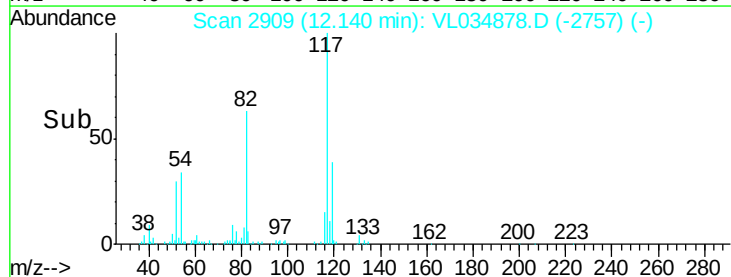
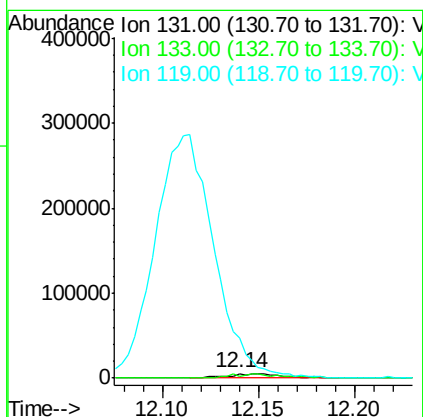
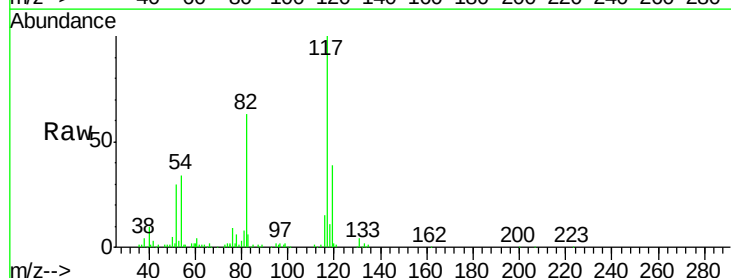
Manual Integrations
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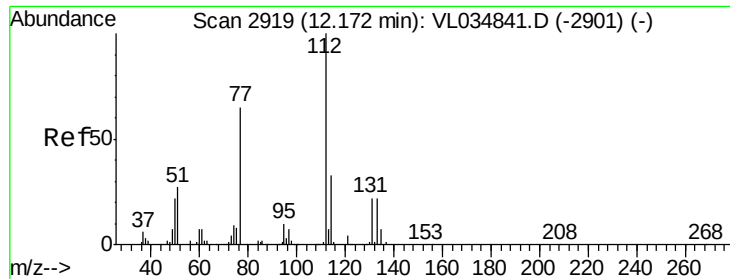
MMDadoda
3/11/2020 3:17:49 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.121 ppbv m
RT: 12.14 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.8	76.0	114.0
119	0.0	47.8	71.8#





#57

Chlorobenzene

Concen: 0.136 ppbv m

RT: 12.18 min Scan# 2921

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

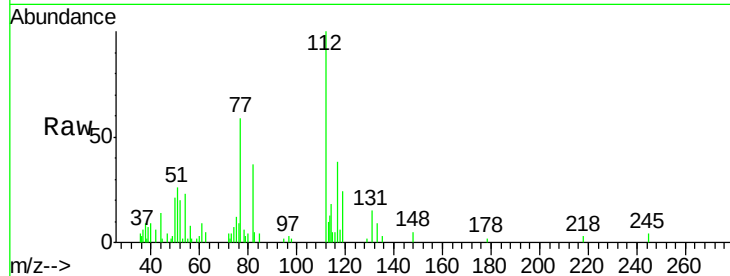
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
112	100		
77	59.3	53.0	79.6
114	18.3	29.5	36.1#

Manual Integrations
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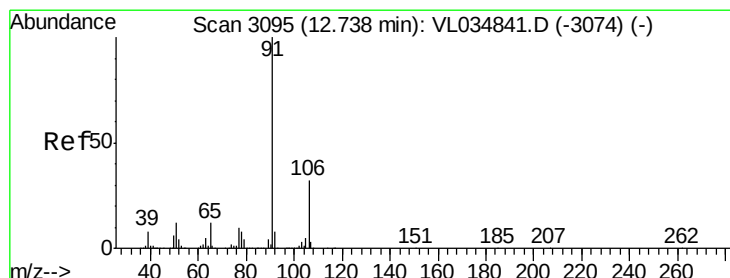
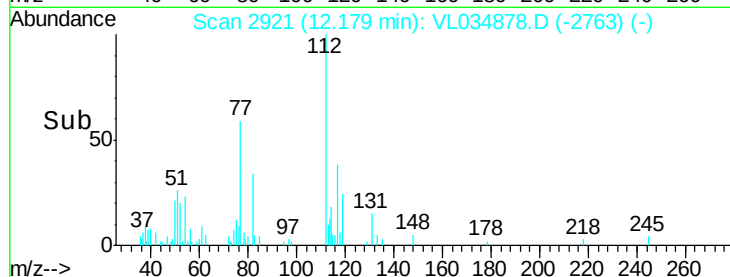
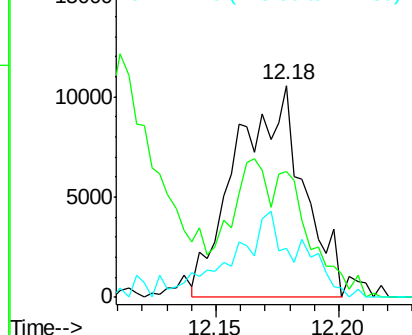
MMDadoda
3/11/2020 3:17:49 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.092 ppbv m

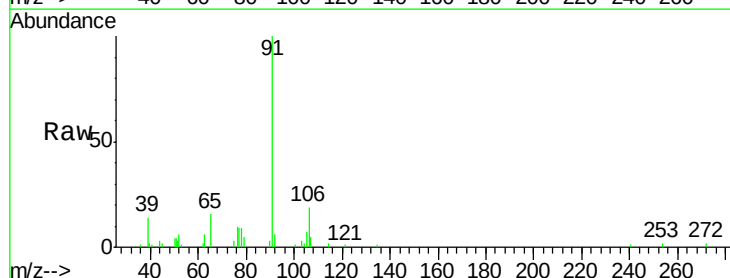
RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL034878.D

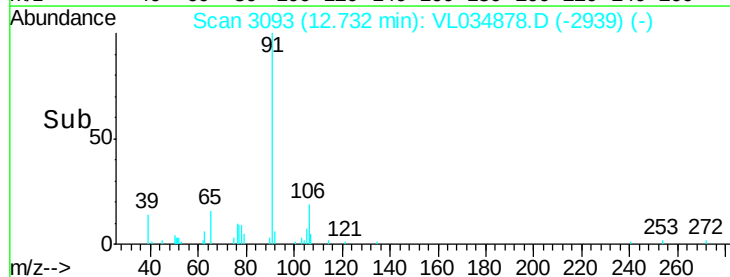
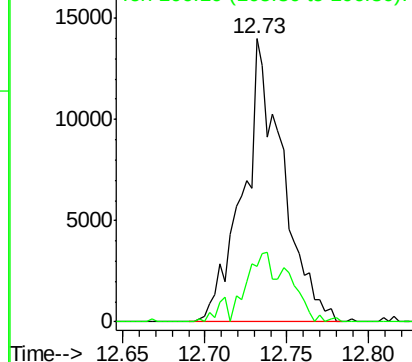
Acq: 10 Mar 2020 22:50

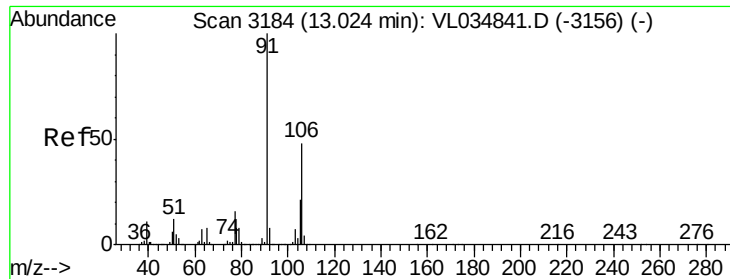
Tgt Ion	Ratio	Lower	Upper
91	100		
106	19.5	25.8	38.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





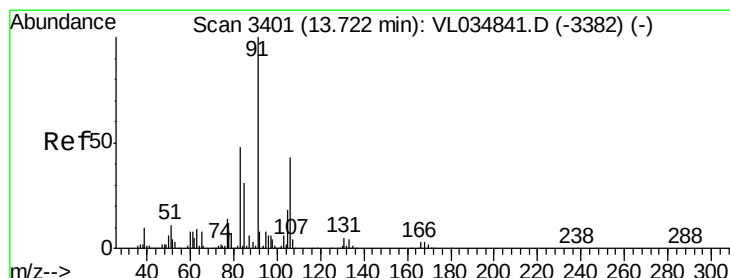
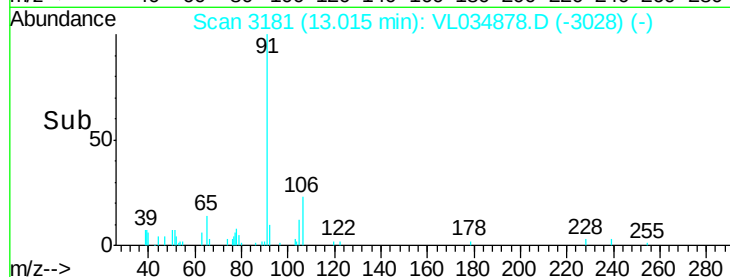
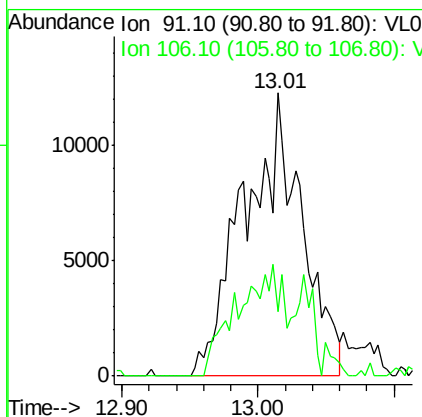
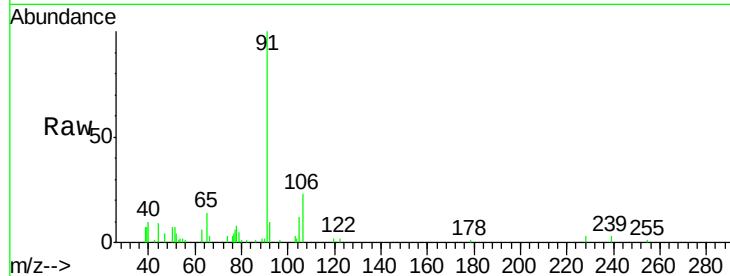
#59
m/p-Xylene
Concen: 0.168 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion: 91 Resp: 35871
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#

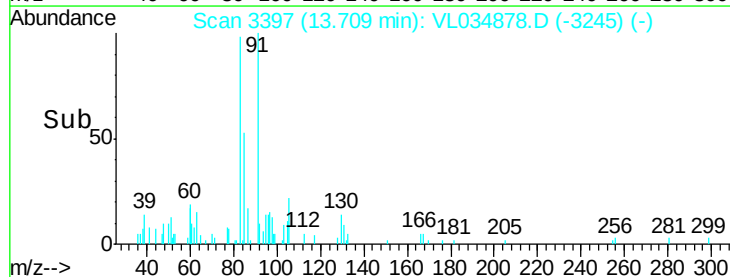
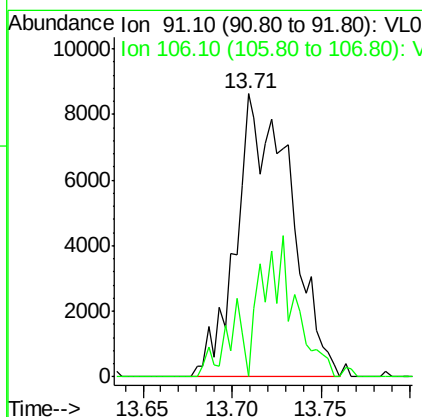
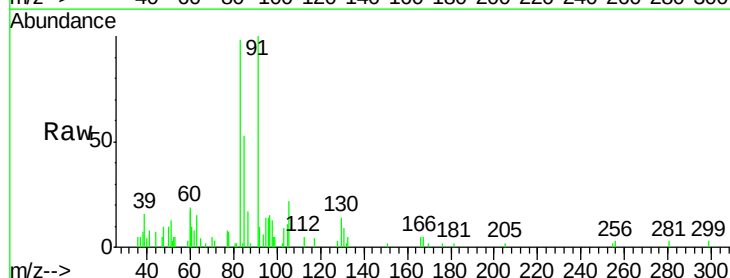
Manual Integrations
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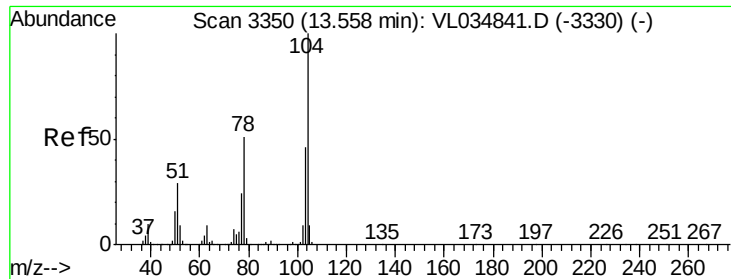
MMDadoda
3/11/2020 3:17:49 PM



#60
o-Xylene
Concen: 0.088 ppbv m
RT: 13.71 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion: 91 Resp: 18329
Ion Ratio Lower Upper
91 100
106 0.0 22.5 67.5#





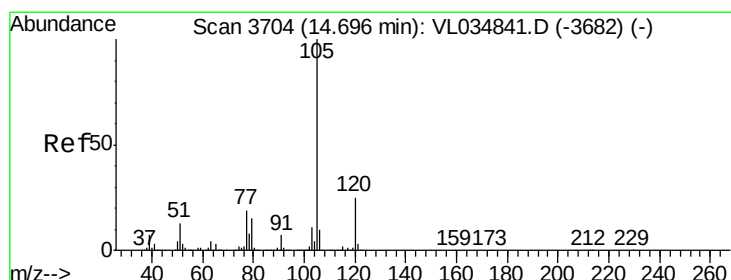
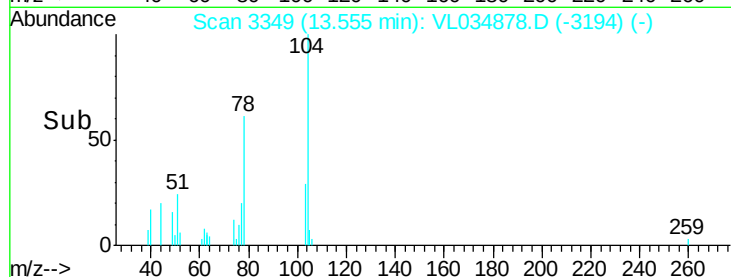
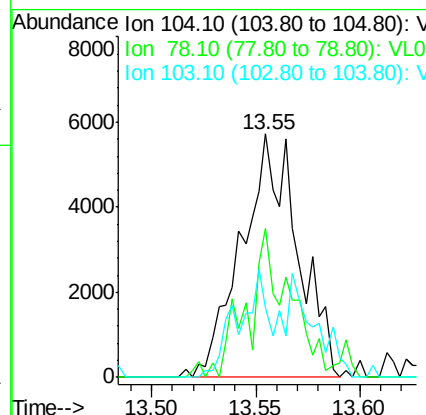
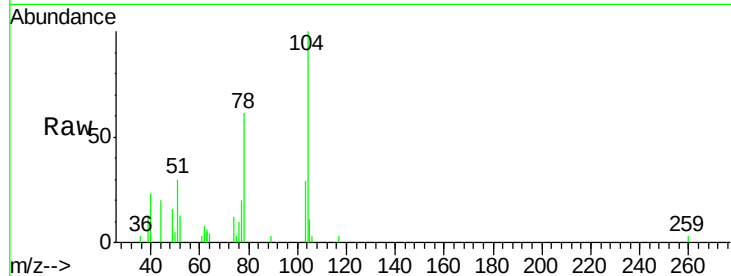
#61
Stvrene
Concen: 0.073 ppbv m
RT: 13.55 min Scan# 3349
Delta R.T. -0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
104	100	10675		
78	49.4		41.8	62.6
103	47.7		37.8	56.6

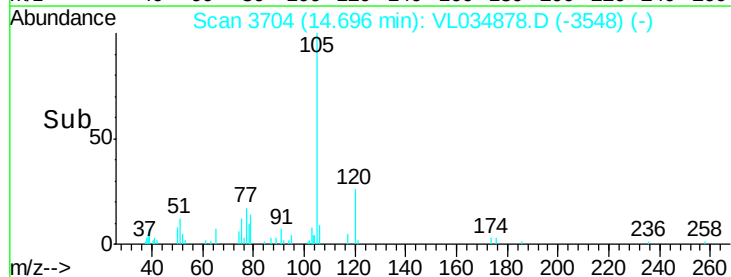
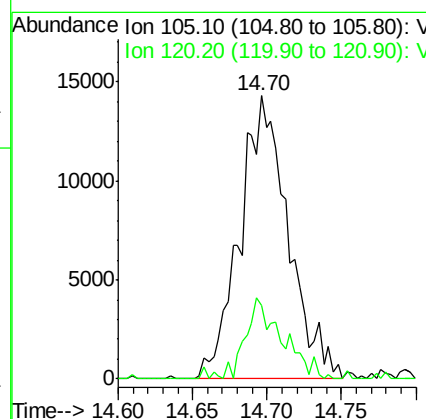
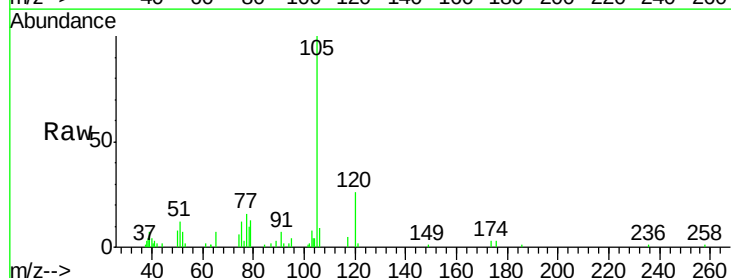
Manual Integrations
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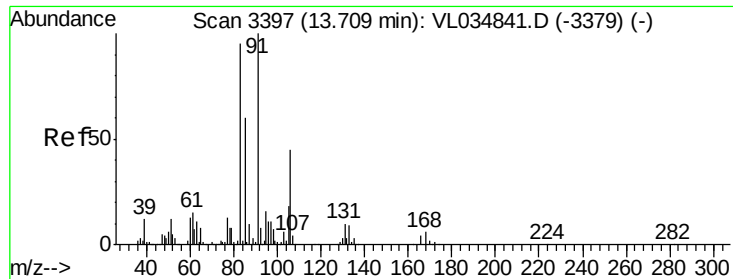
MMDadoda
3/11/2020 3:17:49 PM



#62
Isopropylbenzene
Concen: 0.103 ppbv m
RT: 14.70 min Scan# 3704
Delta R.T. 0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	32371		
120	22.3		21.0	31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 0.124 ppbv m

RT: 13.72 min Scan# 3399

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

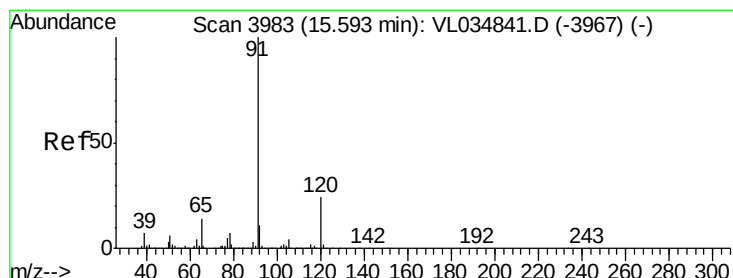
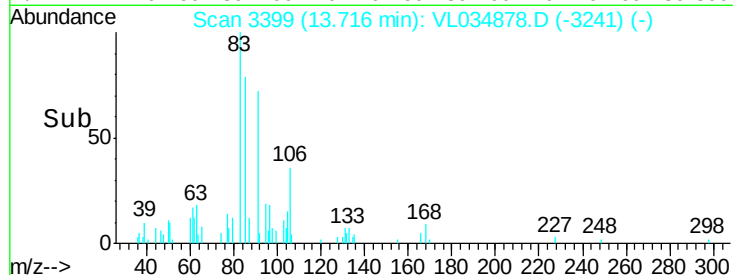
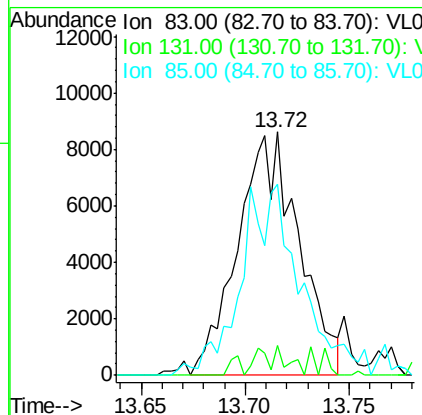
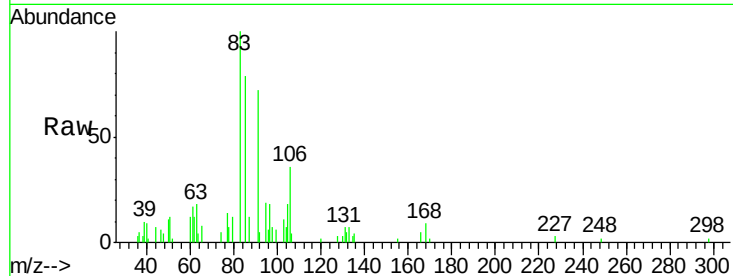
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	17563		
131	0.0	5.0	14.9#	
85	0.0	32.4	97.2#	

Manual Integrations
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MMDadoda
3/11/2020 3:17:49 PM



#64

n-propylbenzene

Concen: 0.086 ppbv m

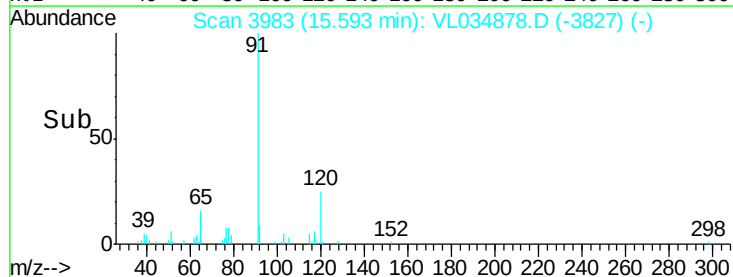
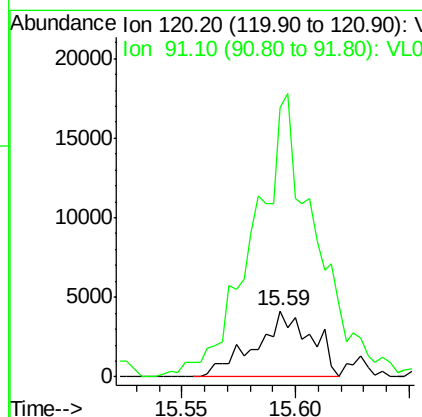
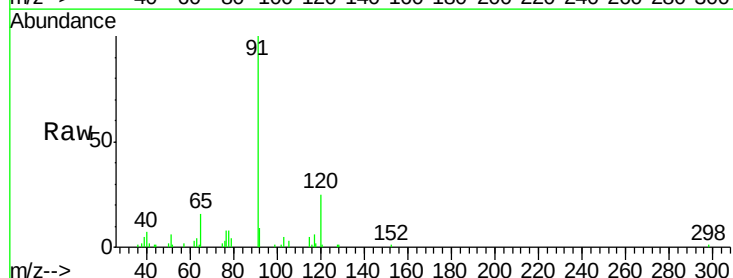
RT: 15.59 min Scan# 3983

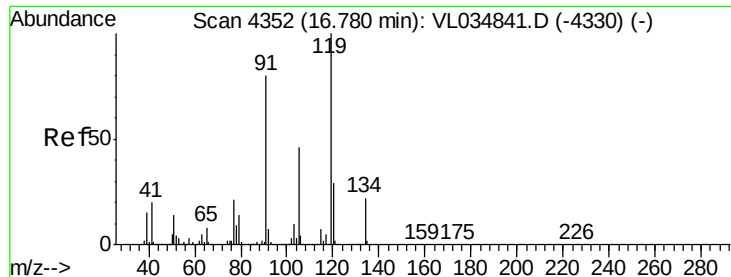
Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	7015		
91	498.0	360.9	541.3	





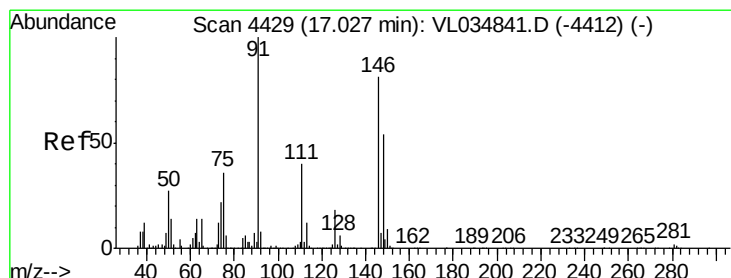
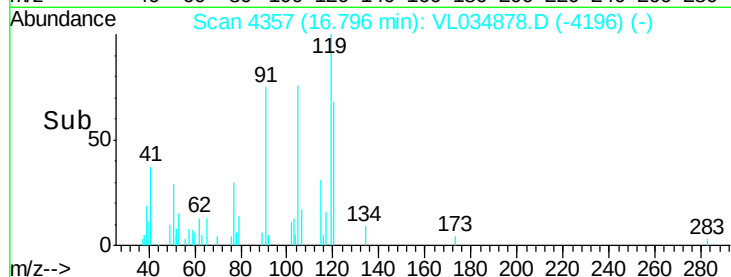
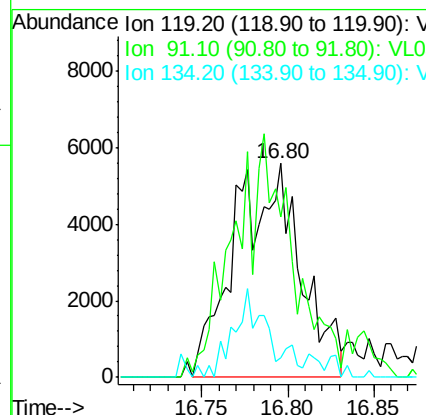
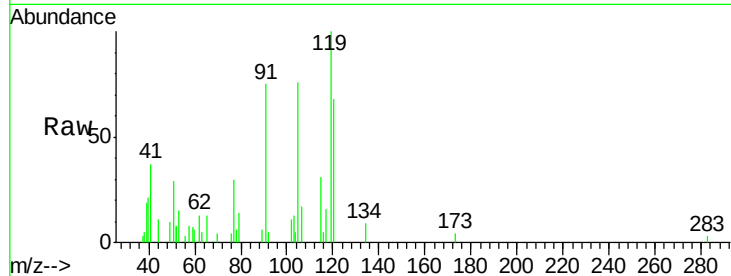
#65
tert-Butylbenzene
Concen: 0.054 ppbv m
RT: 16.80 min Scan# 4357
Delta R.T. 0.02 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	64.9	97.3#
134	22.9	15.9	23.9

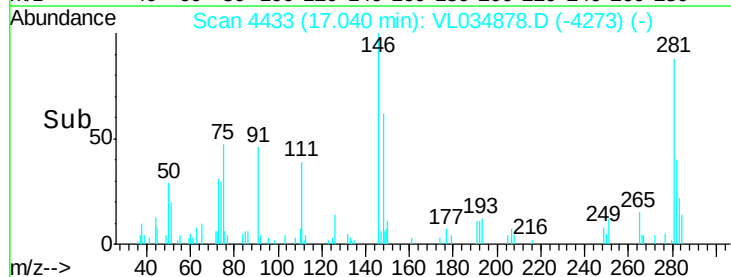
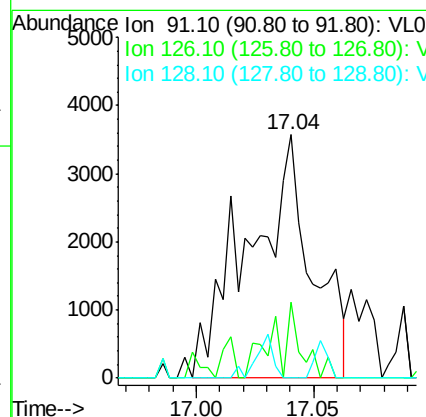
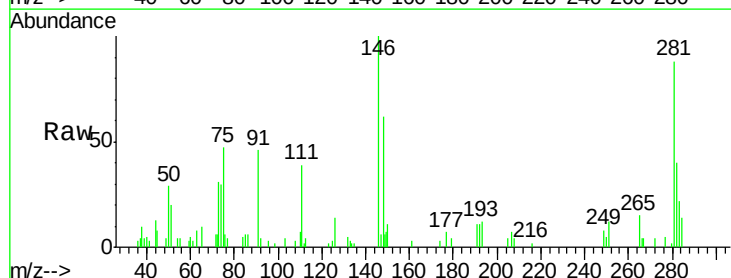
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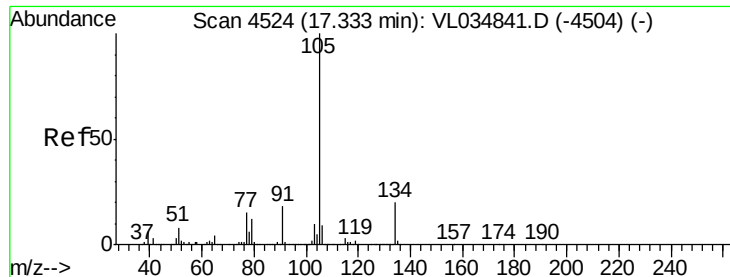
MMDadoda
3/11/2020 3:17:49 PM



#66
Benzyl Chloride
Concen: 0.058 ppbv m
RT: 17.04 min Scan# 4433
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.7	22.1#
128	0.0	4.7	7.1#





#67

sec-Butylbenzene

Concen: 0.066 ppbv m

RT: 17.33 min Scan# 4524

Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 105 Resp: 25201

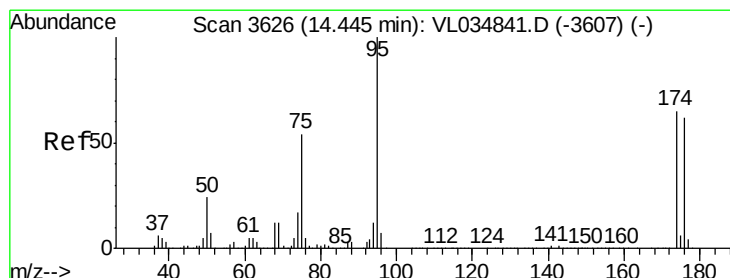
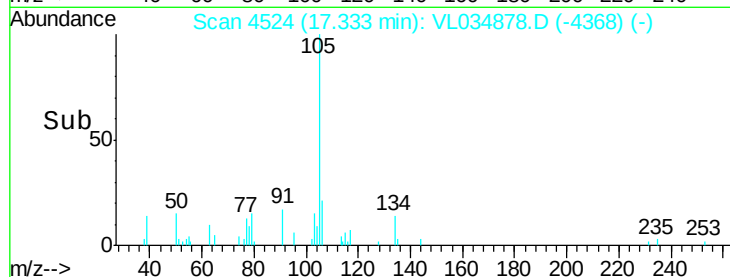
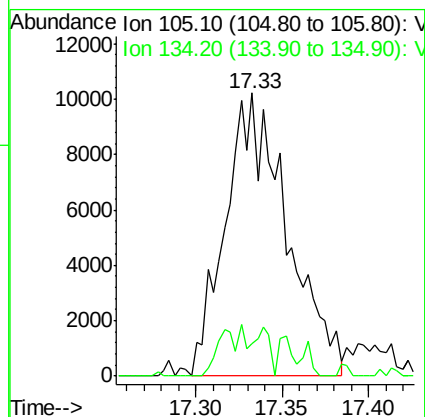
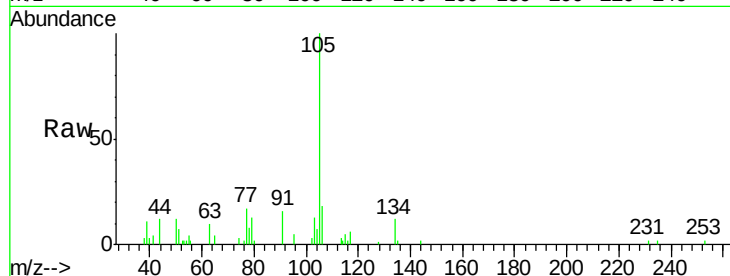
Ion Ratio Lower Upper

105 100

134 0.7 15.0 22.6#

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.640 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

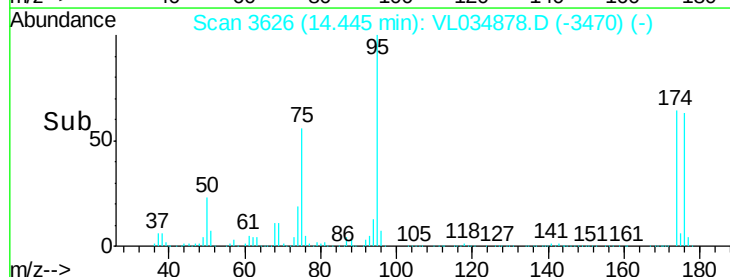
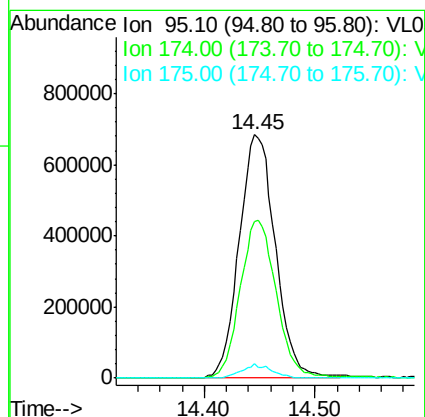
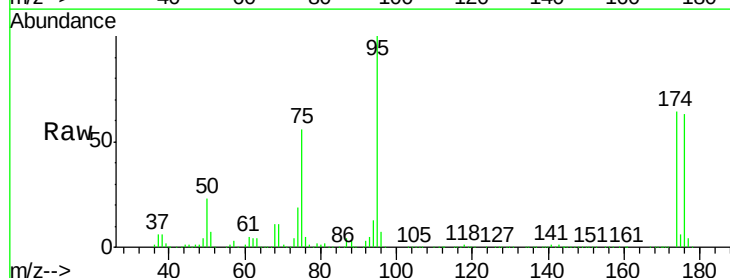
Tgt Ion: 95 Resp: 1558781

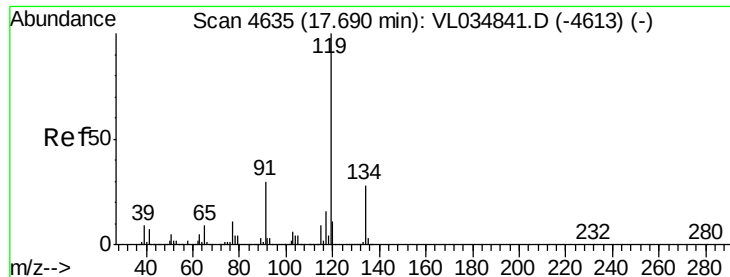
Ion Ratio Lower Upper

95 100

174 65.1 55.2 82.8

175 4.9 4.3 6.5





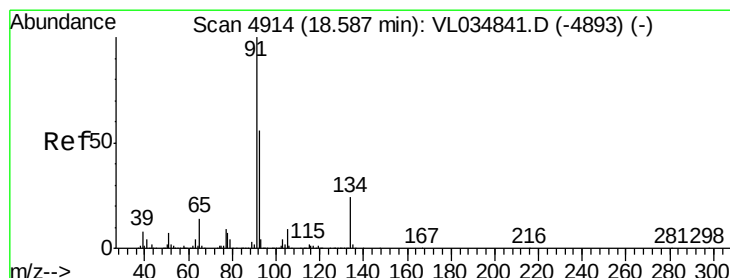
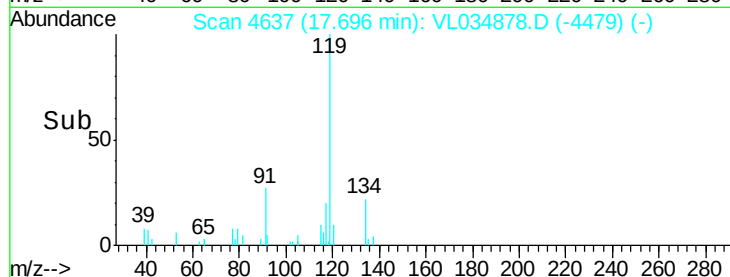
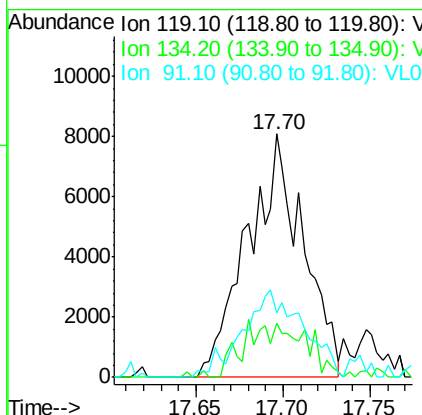
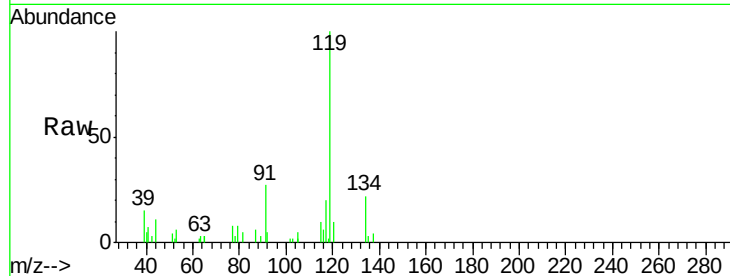
#69
p-Isopropyltoluene
Concen: 0.056 ppbv m
RT: 17.70 min Scan# 4637
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	17832		
134	0.0	20.6	30.8#	
91	0.0	23.4	35.2#	

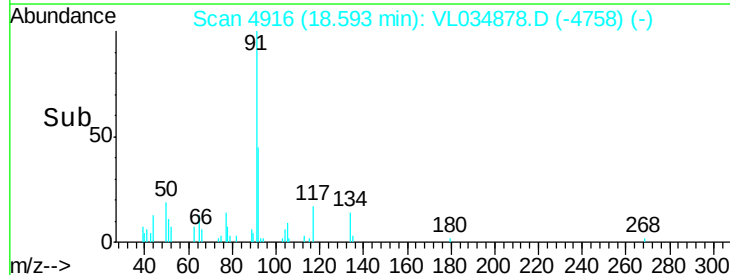
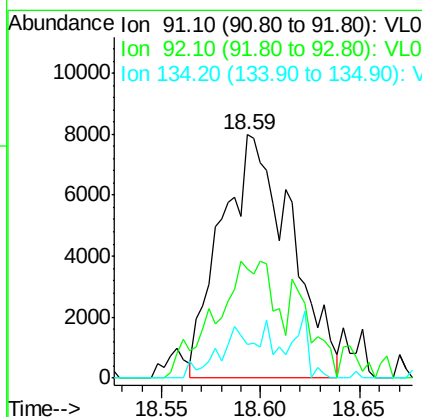
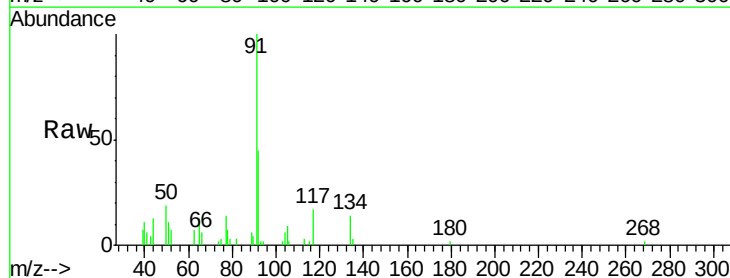
Manual Integrations
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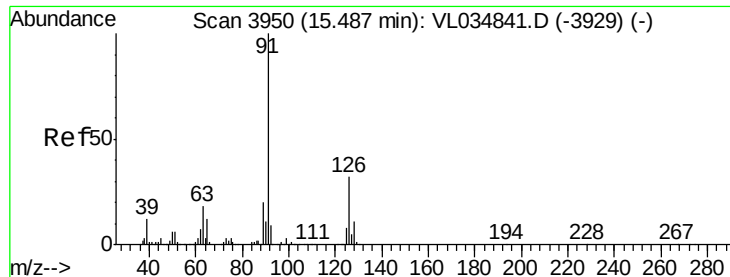
MMDadoda
3/11/2020 3:17:49 PM



#70
n-Butylbenzene
Concen: 0.060 ppbv m
RT: 18.59 min Scan# 4916
Delta R.T. 0.01 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	19560		
92	0.0	43.8	65.6#	
134	0.0	19.0	28.4#	





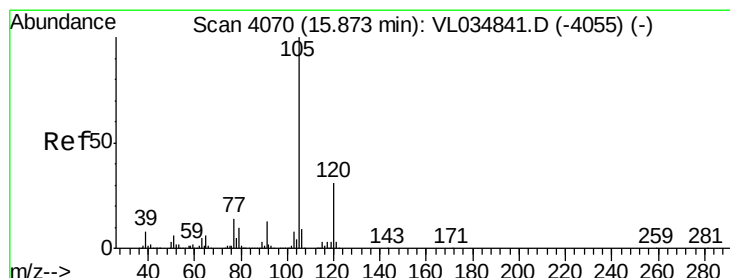
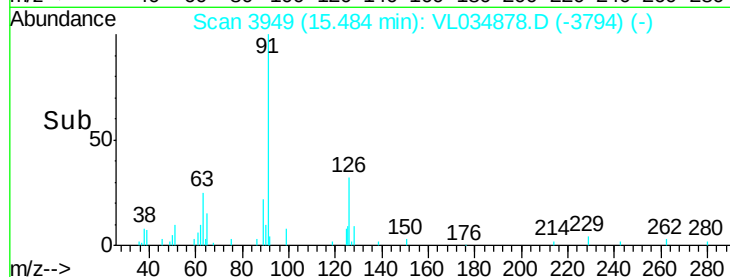
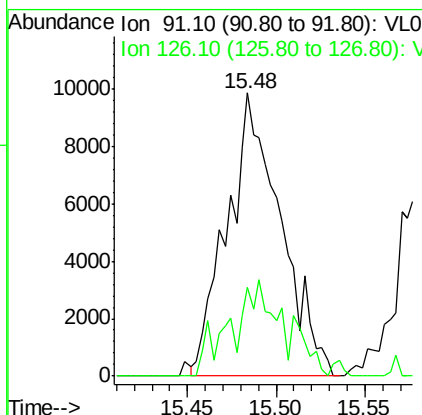
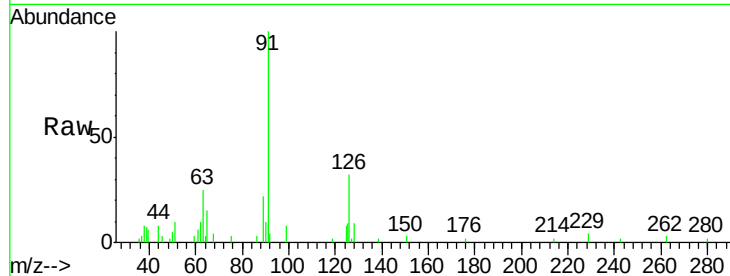
#71
2-Chlorotoluene
Concen: 0.087 ppbv m
RT: 15.48 min Scan# 3949
Delta R.T. -0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
91	100		
126	35.1	12.3	49.1

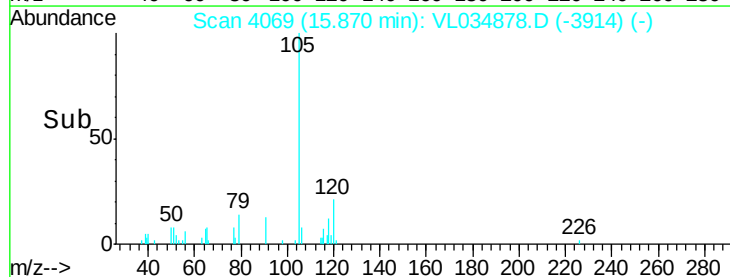
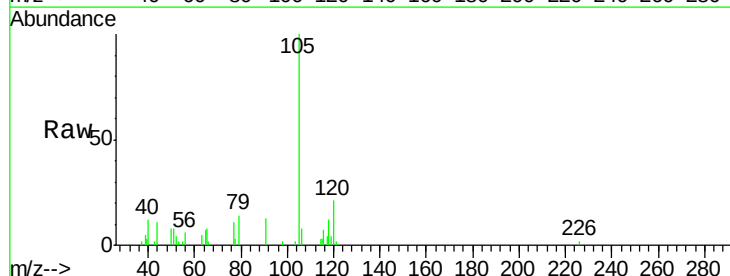
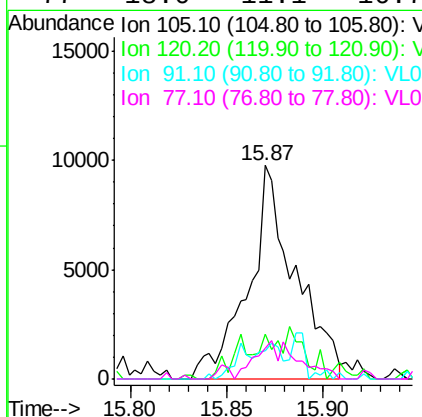
Manual Integrations
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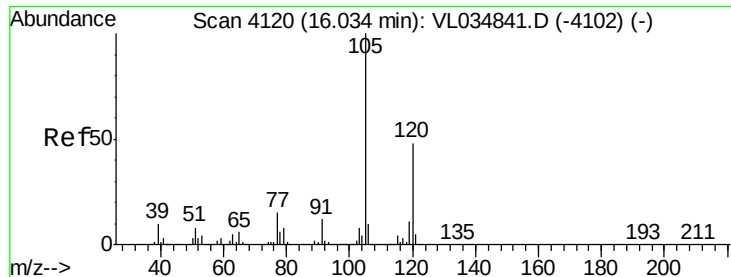
MMDadoda
3/11/2020 3:17:49 PM



#72
4-Ethyltoluene
Concen: 0.067 ppbv m
RT: 15.87 min Scan# 4069
Delta R.T. -0.00 min
Lab File: VL034878.D
Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.7	35.5#
91	0.0	10.5	15.7#
77	18.0	11.1	16.7#





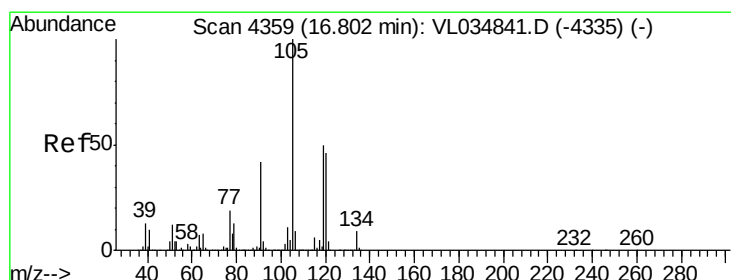
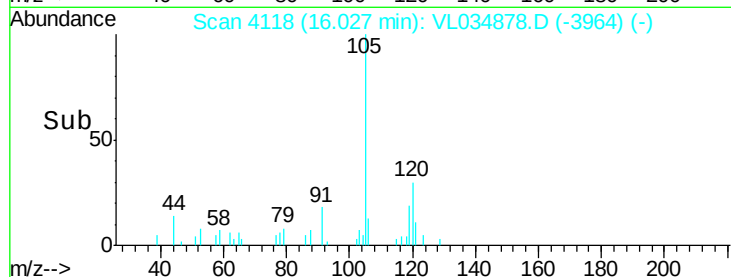
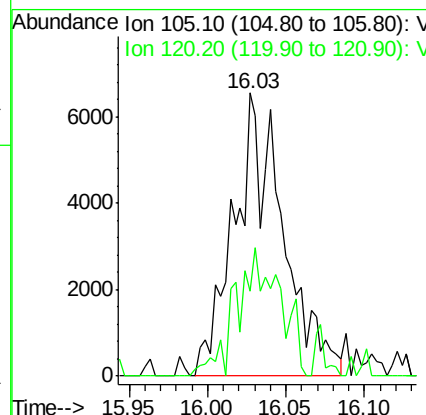
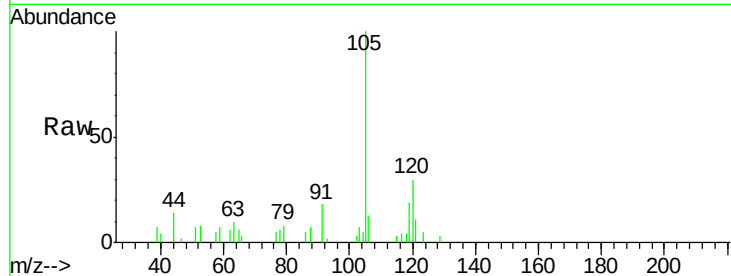
#73
 1,3,5-Trimethylbenzene
 Concen: 0.062 ppbv m
 RT: 16.03 min Scan# 4118
 Delta R.T. -0.01 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

Tot Ion:105 Resp: 14236
 Ion Ratio Lower Upper
 105 100
 120 30.0 38.6 58.0#

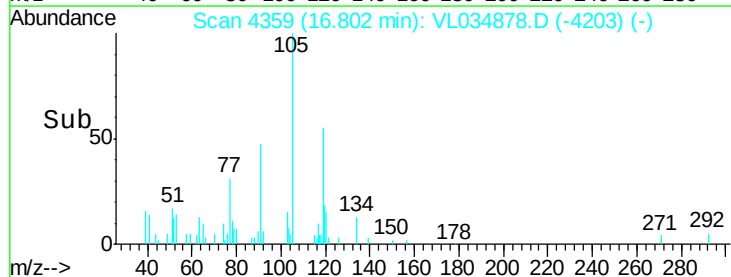
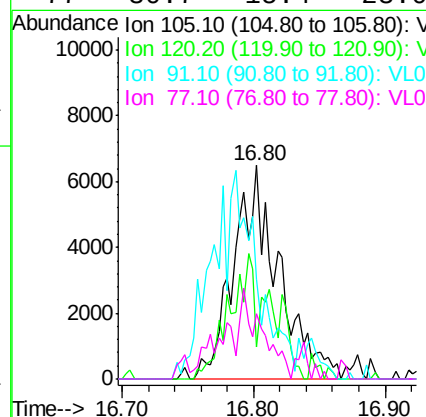
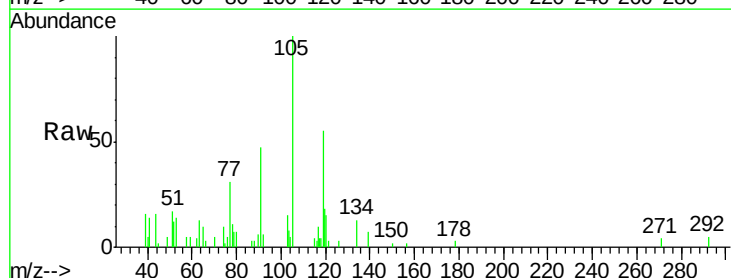
Manual Integrations
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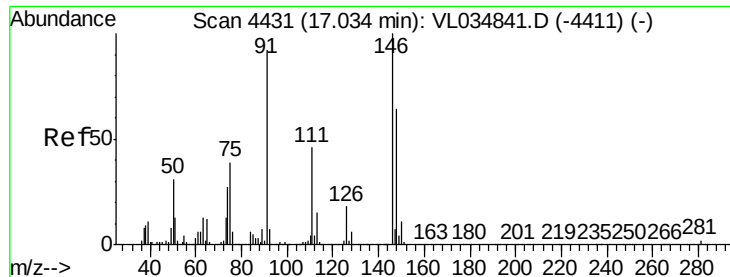
MMDadoda
 3/11/2020 3:17:49 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.065 ppbv m
 RT: 16.80 min Scan# 4359
 Delta R.T. 0.00 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Tgt Ion:105 Resp: 15305
 Ion Ratio Lower Upper
 105 100
 120 15.1 37.0 55.4#
 91 46.7 33.8 50.6
 77 30.7 15.4 23.0#





#75

1,3-Dichlorobenzene

Concen: 0.124 ppbv m

RT: 17.04 min Scan# 4432

Delta R.T. 0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

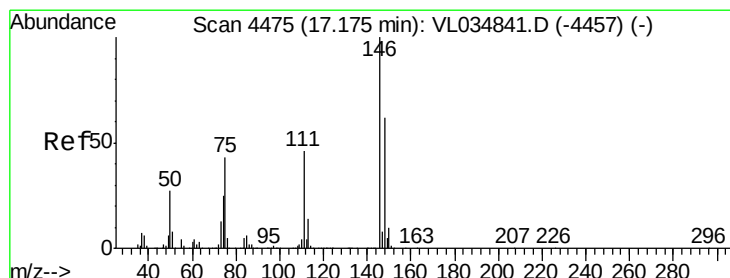
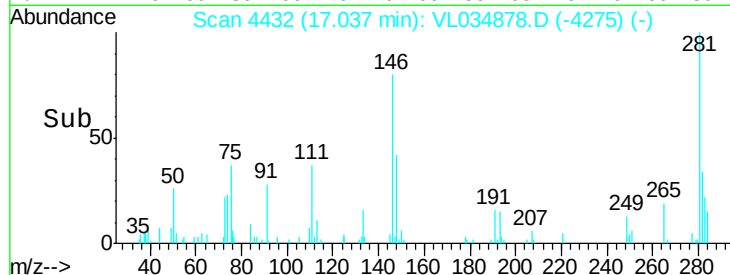
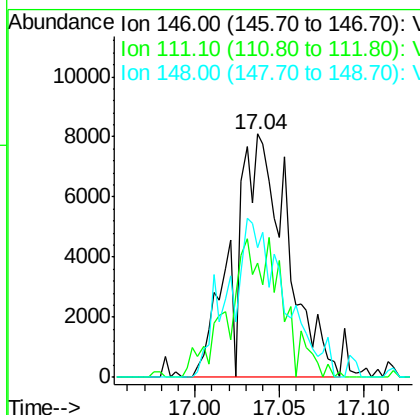
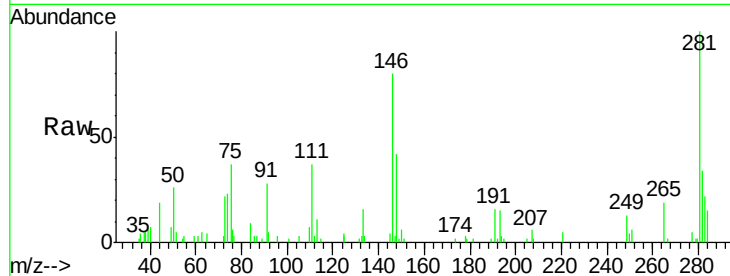
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	146	Resp:	17676
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.9	71.7#
148	69.8	32.5	97.5

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#76

1,4-Dichlorobenzene

Concen: 0.107 ppbv m

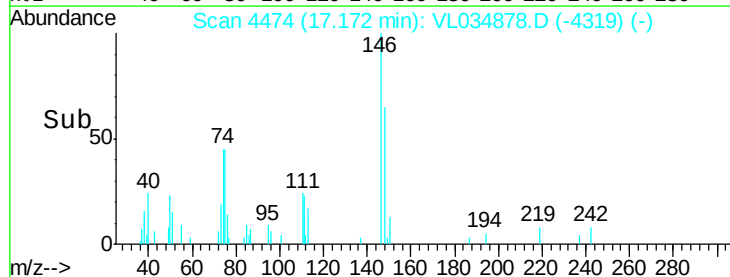
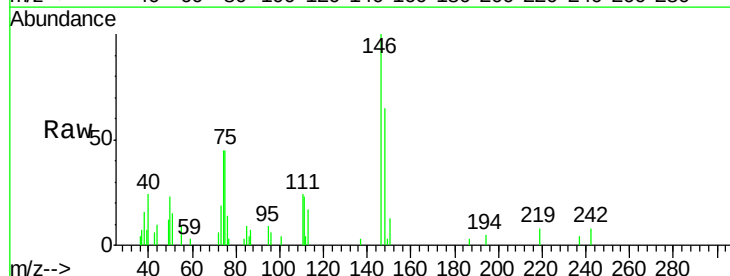
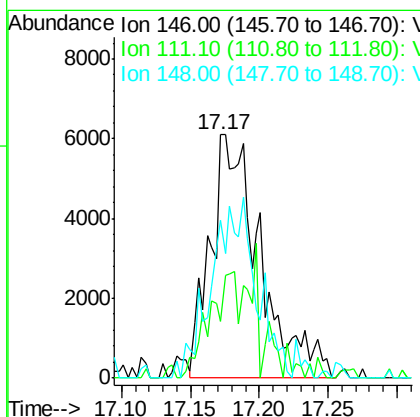
RT: 17.17 min Scan# 4474

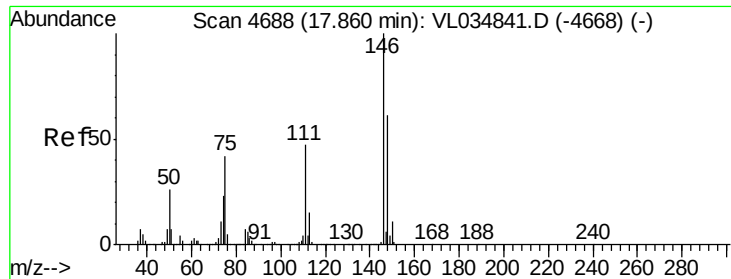
Delta R.T. -0.00 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	146	Resp:	15314
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.4	70.2#
148	0.0	32.3	96.9#





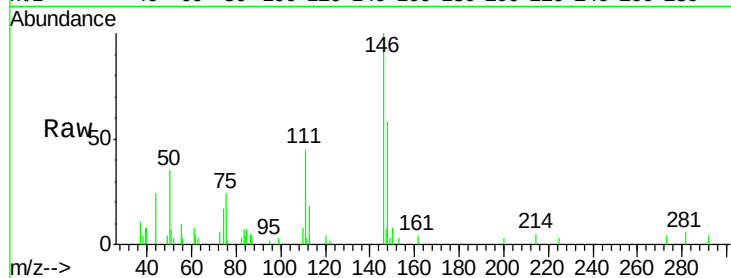
#77
 1,2-Dichlorobenzene
 Concen: 0.108 ppbv m
 RT: 17.87 min Scan# 4691
 Delta R.T. 0.01 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

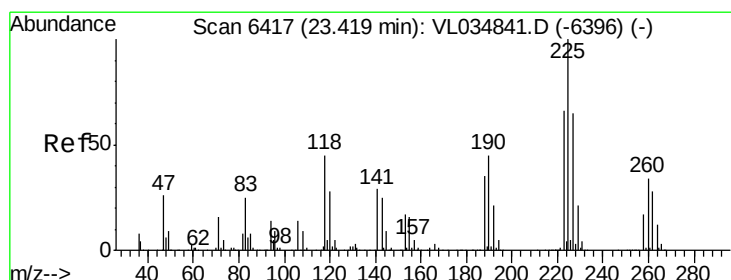
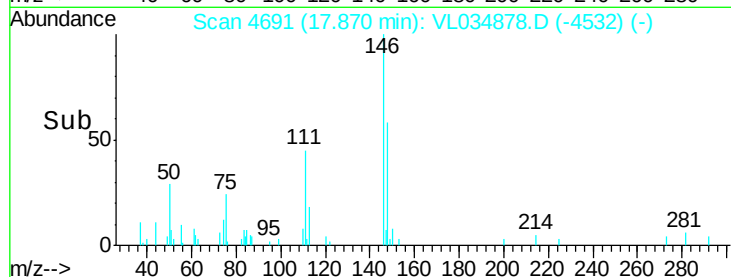
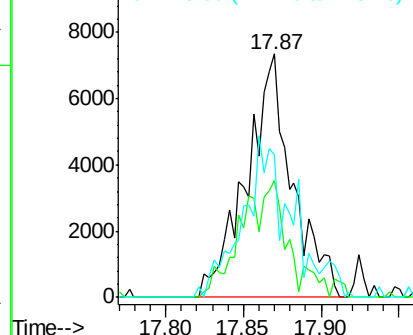
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.8	71.4#
148	0.0	31.6	94.8#

Manual Integrations
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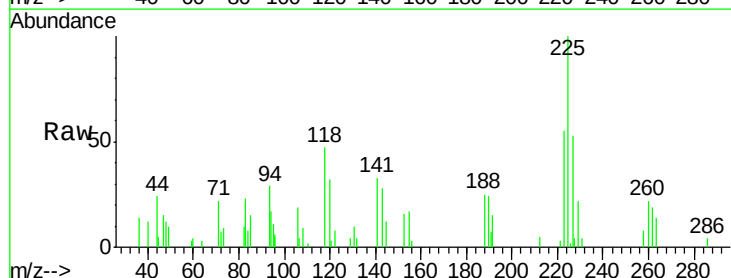


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

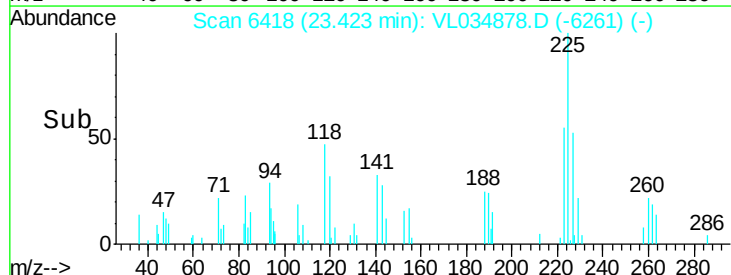
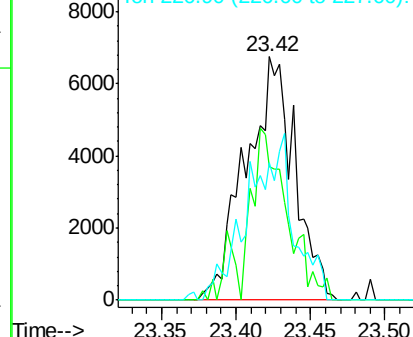


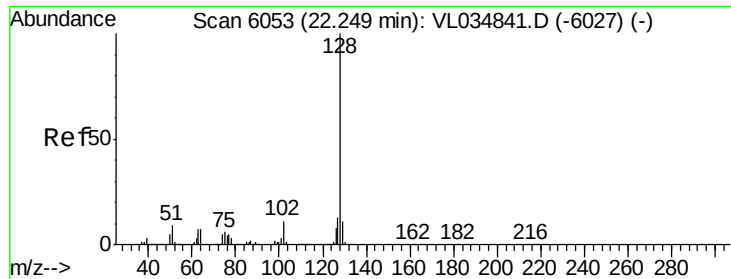
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.132 ppbv m
 RT: 23.42 min Scan# 6418
 Delta R.T. 0.00 min
 Lab File: VL034878.D
 Acq: 10 Mar 2020 22:50

Tgt Ion	Ratio	Lower	Upper
225	100		
223	58.1	51.1	76.7
227	0.0	51.8	77.6#



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.039 ppbv m

RT: 22.28 min Scan# 6062

Delta R.T. 0.03 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Instrument :

MSVOA_L

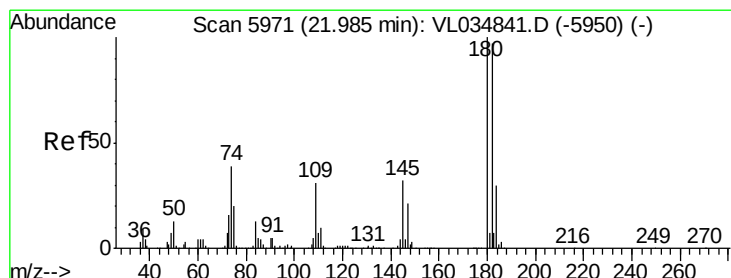
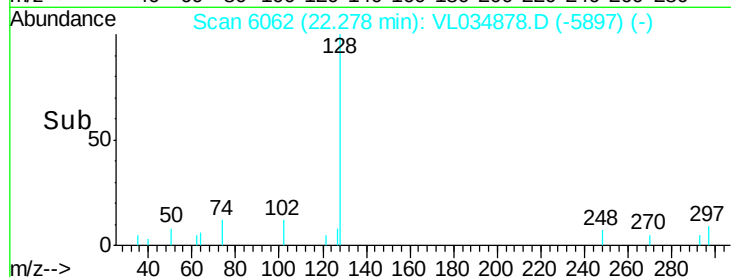
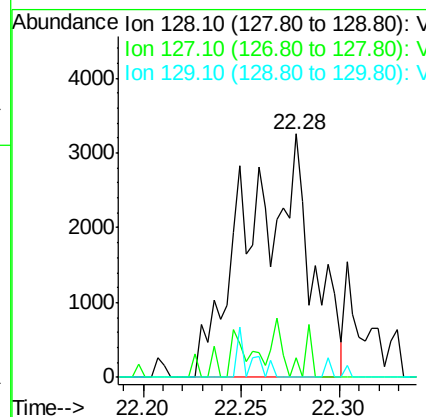
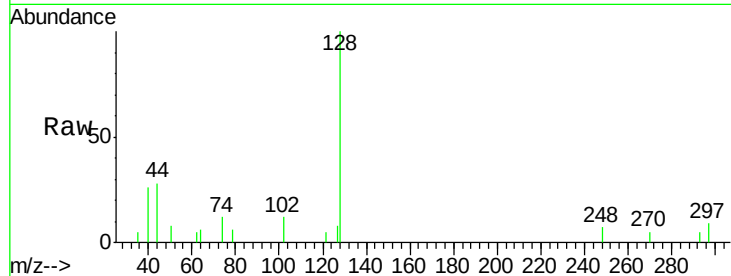
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	128	Resp:	7193
Ion Ratio	Lower	Upper	
128	100		
127	7.9	10.2	15.2#
129	0.0	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:17:49 PM



#81

1,2,4-Trichlorobenzene

Concen: 0.061 ppbv m

RT: 22.00 min Scan# 5975

Delta R.T. 0.01 min

Lab File: VL034878.D

Acq: 10 Mar 2020 22:50

Tgt Ion:	180	Resp:	7148
Ion Ratio	Lower	Upper	
180	100		
182	0.0	76.6	115.0#
184	9.4	25.0	37.4#

