

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050720\
 Data File : VL034980.D
 Acq On : 7 May 2020 23:10
 Operator : SY/AP
 Sample : L2182-15 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 5:22:53 PM

Quant Time: May 08 15:16:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1001332	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2316812	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2130515	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1788973	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	26910m	0.189	ppbv	
3) Chlorodifluoromethane	2.95	51	14747	0.129	ppbv #	89
4) Chloromethane	3.11	50	8370	0.128	ppbv #	88
5) Vinyl Chloride	3.23	62	7352m	0.115	ppbv	
6) Bromomethane	3.45	94	5959m	0.156	ppbv	
7) Chloroethane	3.53	64	3136m	0.137	ppbv	
8) Dichlorotetrafluoroethane	3.15	85	18814	0.128	ppbv	88
9) Propene	2.98	41	7086m	0.143	ppbv	
10) Heptane	8.13	43	8019m	0.065	ppbv	
11) Trichlorofluoromethane	3.93	101	19419m	0.133	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	14683m	0.141	ppbv	
13) Ethanol	3.60	45	2432m	0.149	ppbv	
14) Bromoethene	3.72	108	4391m	0.102	ppbv	
15) Acetone	3.84	43	38086m	0.288	ppbv	
16) 1,3-Butadiene	3.30	39	7855m	0.138	ppbv	
17) tert-Butyl alcohol	4.31	59	15755m	0.134	ppbv	
18) 1,1-Dichloroethene	4.28	96	5971m	0.132	ppbv	
19) Isopropyl Alcohol	3.97	45	12707m	0.144	ppbv	
20) Methylene Chloride	4.33	84	11782	0.269	ppbv #	79
21) Allyl Chloride	4.39	41	8691m	0.116	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	6342m	0.141	ppbv	
23) Vinyl Acetate	5.08	43	15760m	0.094	ppbv	
24) 1,1-Dichloroethane	5.01	63	16935m	0.131	ppbv	
25) Ethyl Acetate	5.68	43	23847m	0.107	ppbv	
26) Hexane	5.69	57	10403m	0.108	ppbv	
27) Carbon Disulfide	4.53	76	13469m	0.119	ppbv	
28) Methyl tert-Butyl Ether	5.05	73	13862m	0.094	ppbv	
29) Chloroform	5.74	83	20461m	0.130	ppbv	
30) Cyclohexane	7.15	84	4281m	0.058	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	9014m	0.096	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	18703m	0.131	ppbv	
34) 2-Butanone	5.26	43	16692m	0.116	ppbv	
35) Carbon Tetrachloride	7.03	117	16565m	0.113	ppbv	
36) Benzene	6.90	78	14660m	0.077	ppbv	
37) 1,2-Dichloroethane	6.31	62	14359m	0.122	ppbv	
38) Trichloroethene	7.85	130	7534m	0.102	ppbv	
39) 1,2-Dichloropropane	7.63	63	8749m	0.114	ppbv	
40) 1,4-Dioxane	7.91	88	2695m	0.087	ppbv	
41) Tetrahydrofuran	6.08	42	5192m	0.068	ppbv	
42) Bromodichloromethane	7.81	83	16569m	0.104	ppbv	
43) Methyl Methacrylate	8.04	69	5672m	0.070	ppbv	

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Quant Time: May 08 15:16:17 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	22548m	0.066	ppbv	
45) t-1,3-Dichloropropene	9.30	75	4893m	0.060	ppbv	
46) cis-1,3-Dichloropropene	8.73	75	7444m	0.074	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	8672m	0.107	ppbv	
48) Dibromochloromethane	10.33	129	10627m	0.086	ppbv	
49) Bromoform	13.08	173	8243m	0.077	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	13811m	0.067	ppbv	
51) 2-Hexanone	10.20	43	8933m	0.056	ppbv	
52) Tetrachloroethene	11.26	164	7551m	0.111	ppbv	
53) Toluene	9.83	91	12493m	0.062	ppbv	
54) 1,2-Dibromoethane	10.65	107	11218m	0.095	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.16	131	10825m	0.113	ppbv	
57) Chlorobenzene	12.19	112	21228m	0.126	ppbv	
58) Ethyl Benzene	12.74	91	17045m	0.065	ppbv	
59) m/p-Xylene	12.99	91	27918m	0.120	ppbv	
60) o-Xylene	13.73	91	14189m	0.062	ppbv	
61) Styrene	13.57	104	7247m	0.050	ppbv	
62) Isopropylbenzene	14.71	105	24915m	0.073	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	20835m	0.116	ppbv	
64) n-propylbenzene	15.61	120	4982m	0.057	ppbv	
65) tert-Butylbenzene	16.80	119	14469m	0.049	ppbv	
66) Benzyl Chloride	17.07	91	8194m	0.081	ppbv	
67) sec-Butylbenzene	17.34	105	25999m	0.061	ppbv	
69) p-Isopropyltoluene	17.72	119	16803m	0.049	ppbv	
70) n-Butylbenzene	18.60	91	17545m	0.048	ppbv	
71) 2-Chlorotoluene	15.50	91	16615m	0.064	ppbv	
72) 4-Ethyltoluene	15.88	105	13527m	0.053	ppbv	
73) 1,3,5-Trimethylbenzene	16.06	105	11701m	0.047	ppbv	
74) 1,2,4-Trimethylbenzene	16.81	105	13561m	0.050	ppbv	
75) 1,3-Dichlorobenzene	17.05	146	23789m	0.149	ppbv	
76) 1,4-Dichlorobenzene	17.19	146	15683m	0.104	ppbv	
77) 1,2-Dichlorobenzene	17.87	146	14040m	0.094	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	17713m	0.139	ppbv	
79) Naphthalene	22.28	128	7640m	0.036	ppbv	
81) 1,2,4-Trichlorobenzene	22.01	180	6226m	0.049	ppbv	

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

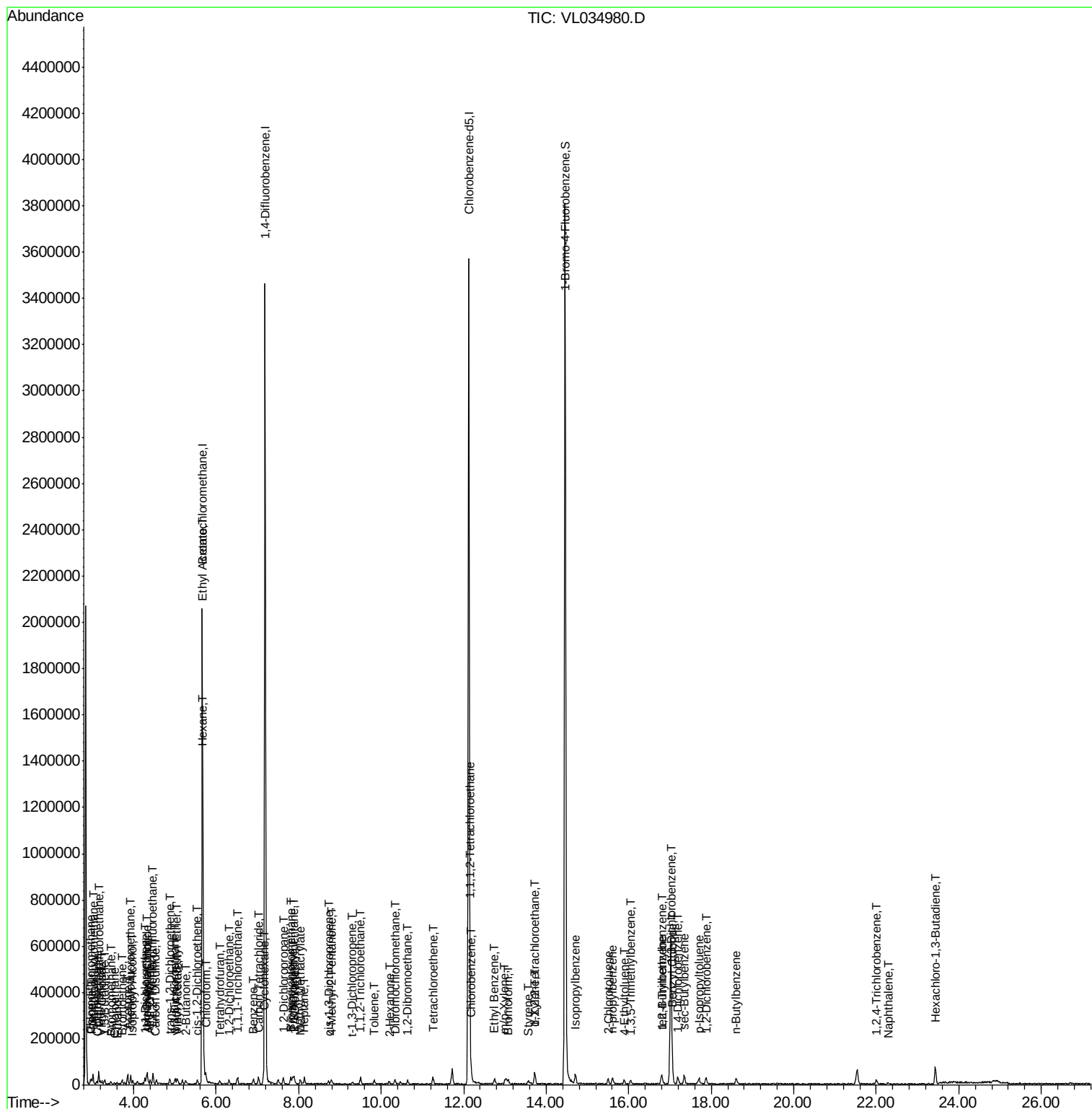
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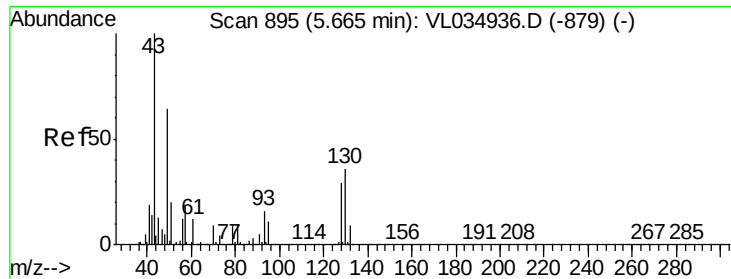
Instrument :
MSVOA_L
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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 49 Resp: 1001332

Ion Ratio Lower Upper

49 100

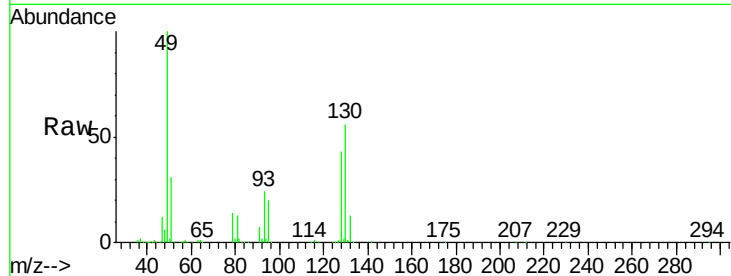
128 45.9 22.1 66.5

130 58.6 29.1 87.3

Manual Integrations
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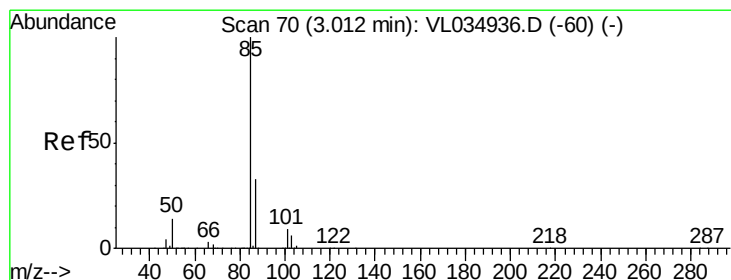
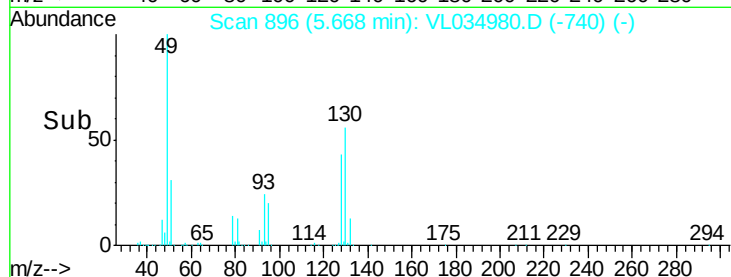
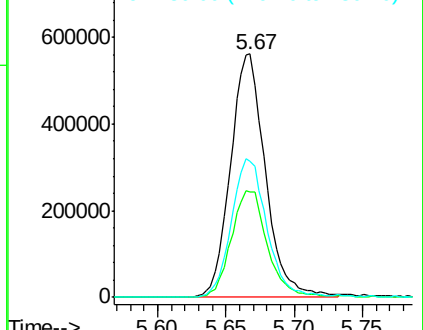
5/8/2020 5:22:53 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.189 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034980.D

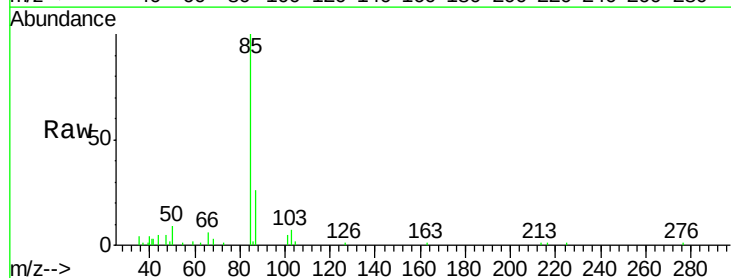
Acq: 7 May 2020 23:10

Tgt Ion: 85 Resp: 26910

Ion Ratio Lower Upper

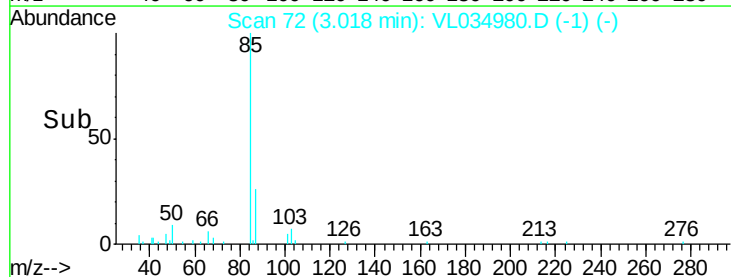
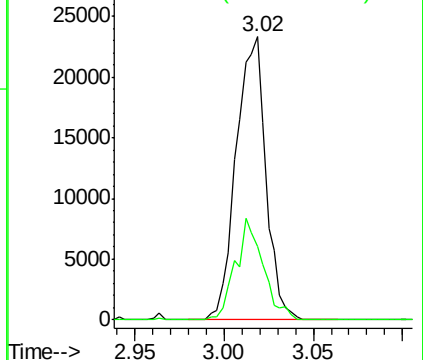
85 100

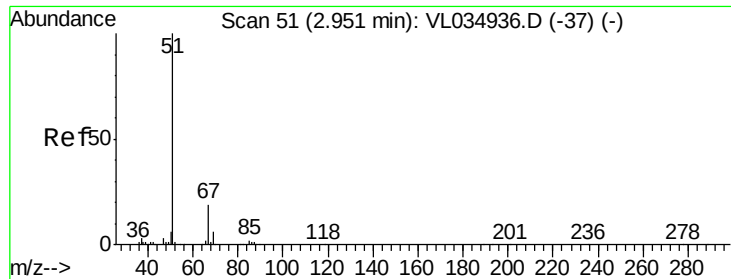
87 26.2 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.129 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 51 Resp: 14747

Ion Ratio Lower Upper

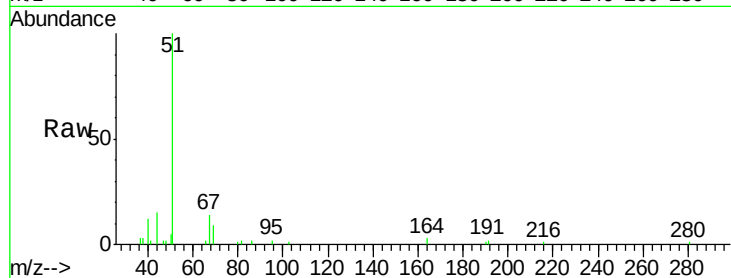
51 100

67 23.8 15.0 22.6#

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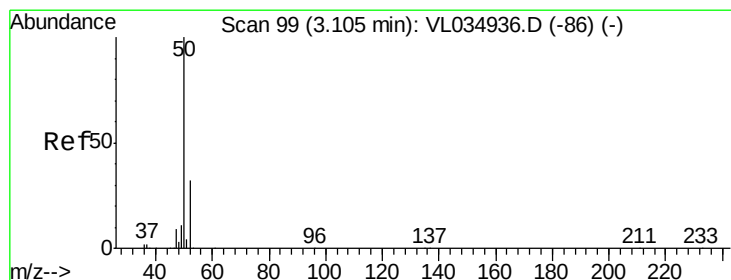
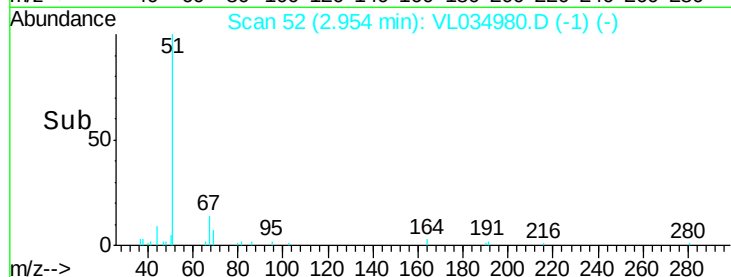
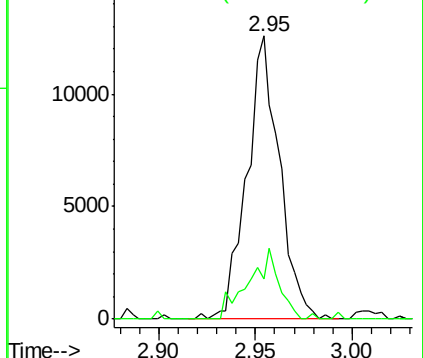
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.128 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.00 min

Lab File: VL034980.D

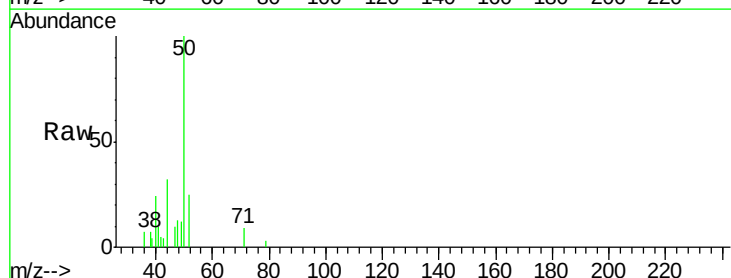
Acq: 7 May 2020 23:10

Tgt Ion: 50 Resp: 8370

Ion Ratio Lower Upper

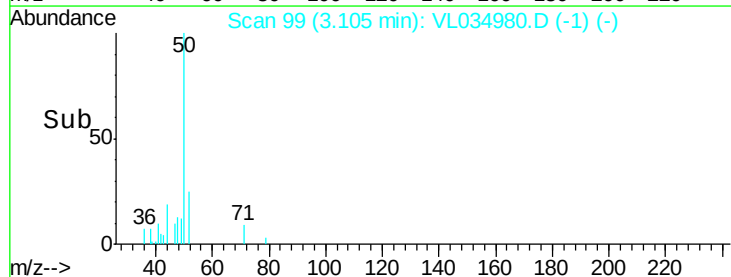
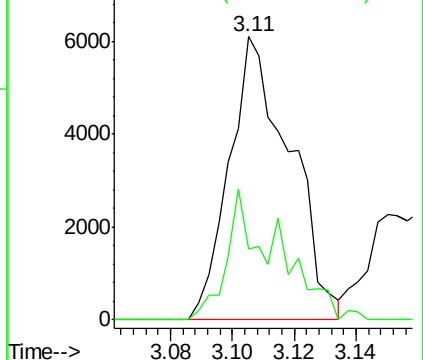
50 100

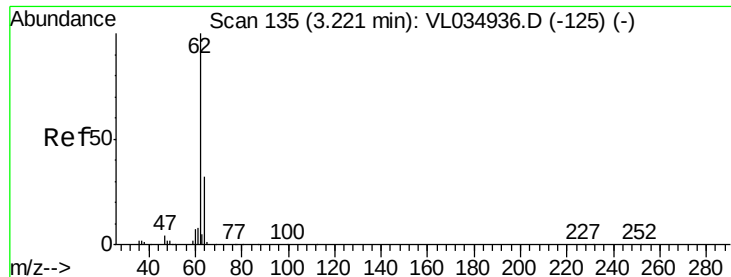
52 25.0 25.4 38.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.115 ppbv m

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 62 Resp: 7352

Ion Ratio Lower Upper

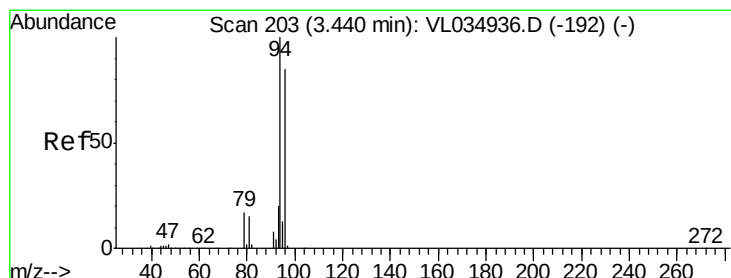
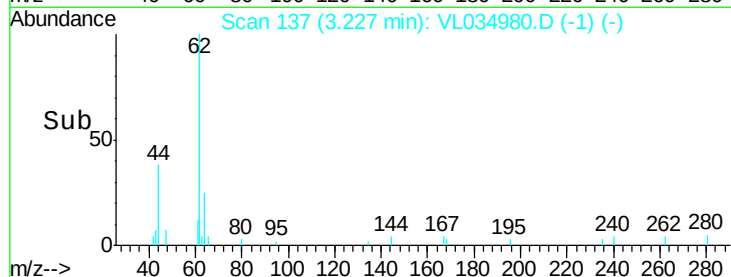
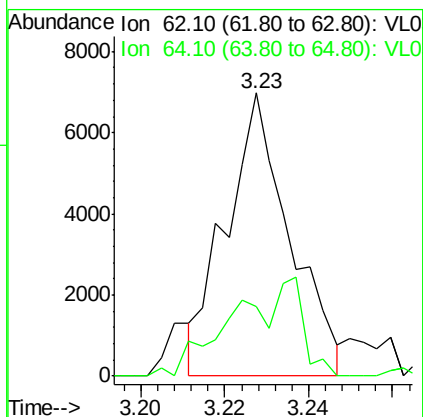
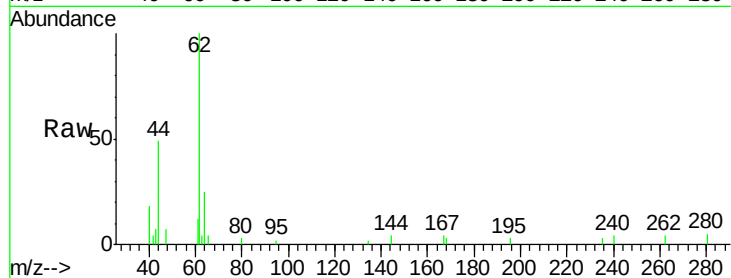
62 100

64 24.8 25.7 38.5#

Manual Integrations
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#6

Bromomethane

Concen: 0.156 ppbv m

RT: 3.45 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL034980.D

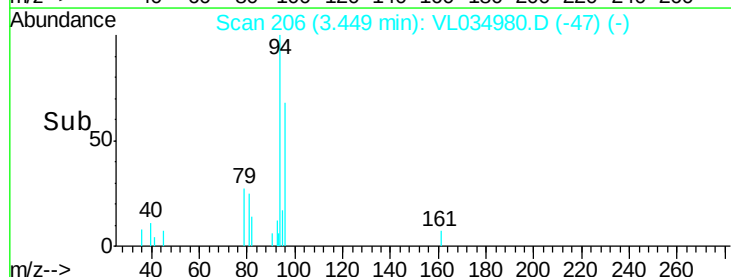
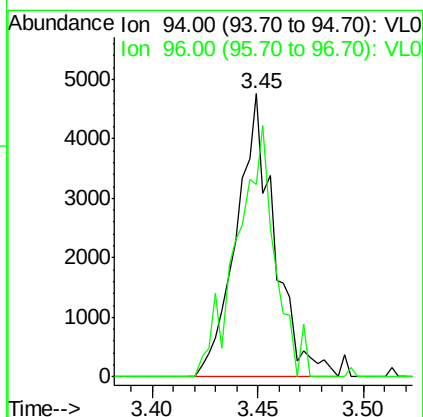
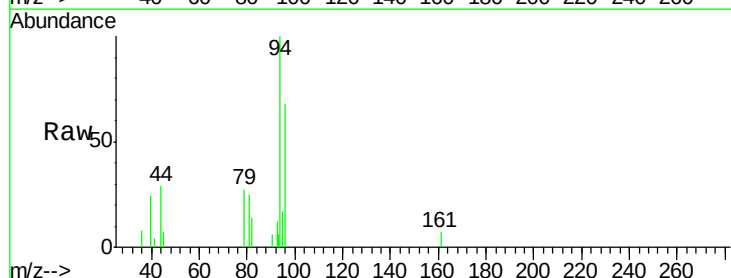
Acq: 7 May 2020 23:10

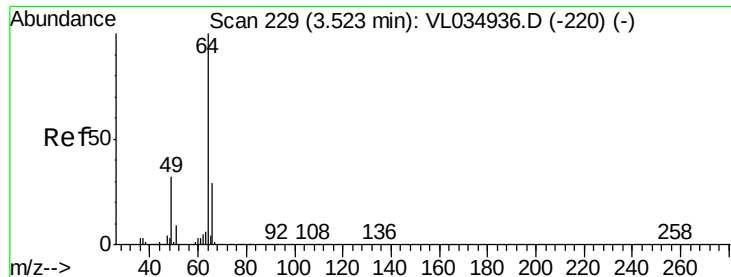
Tgt Ion: 94 Resp: 5959

Ion Ratio Lower Upper

94 100

96 68.1 67.9 101.9





#7

Chloroethane

Concen: 0.137 ppbv m

RT: 3.53 min Scan# 230

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 64 Resp: 3136

Ion Ratio Lower Upper

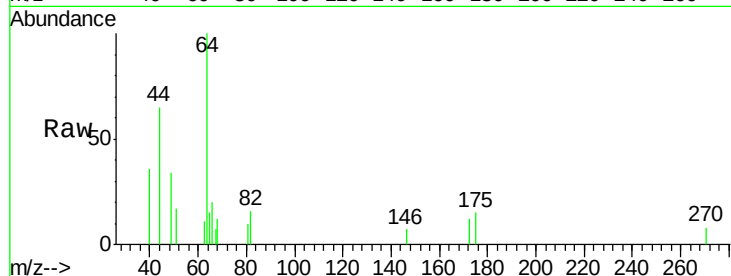
64 100

66 20.1 23.2 34.8#

Manual Integrations
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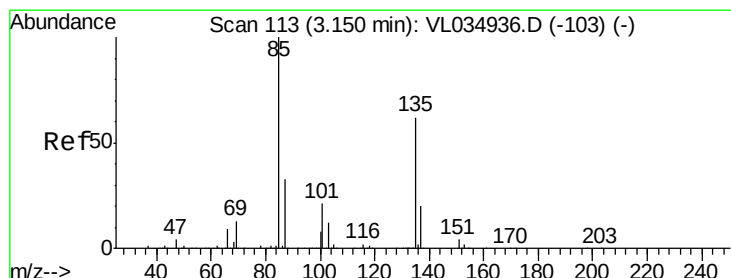
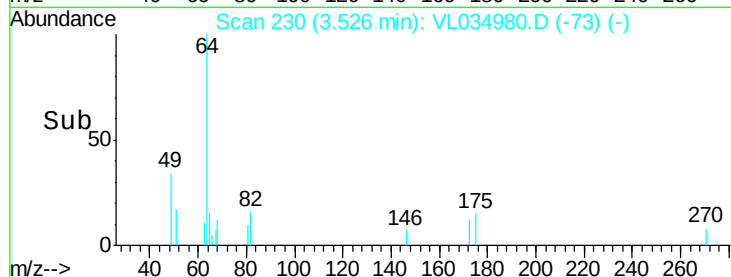
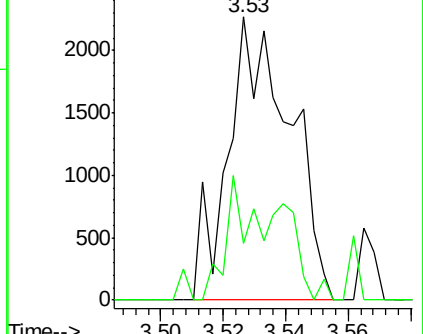
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.128 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034980.D

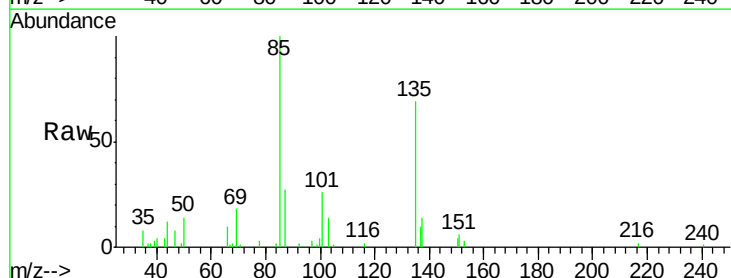
Acq: 7 May 2020 23:10

Tgt Ion: 85 Resp: 18814

Ion Ratio Lower Upper

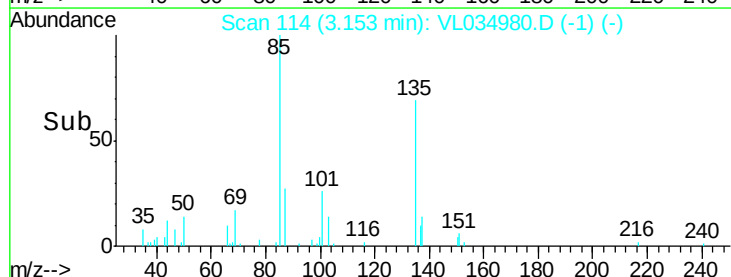
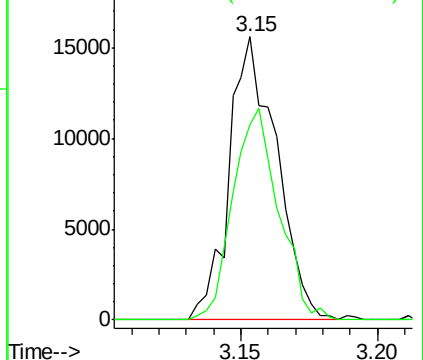
85 100

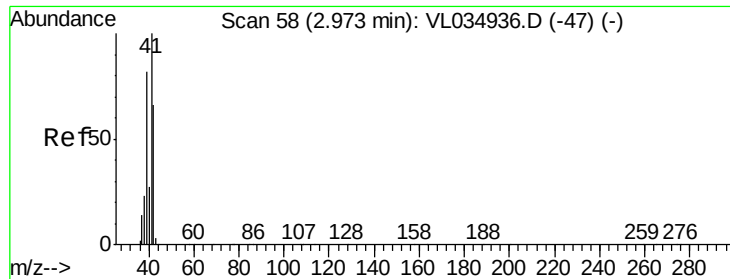
135 72.7 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.143 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 41 Resp: 7086

Ion Ratio Lower Upper

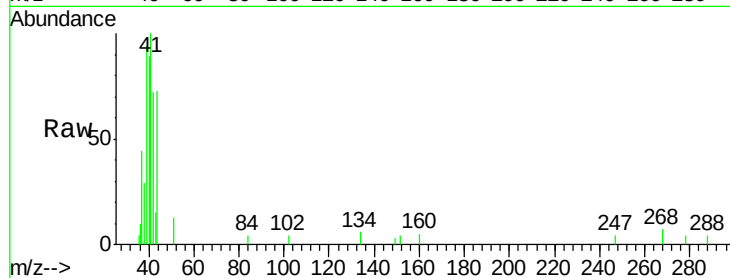
41 100

42 62.9 54.5 81.7

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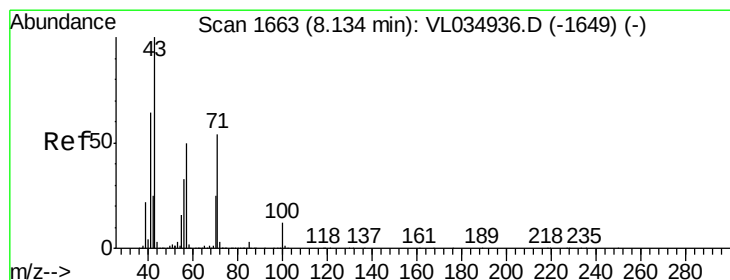
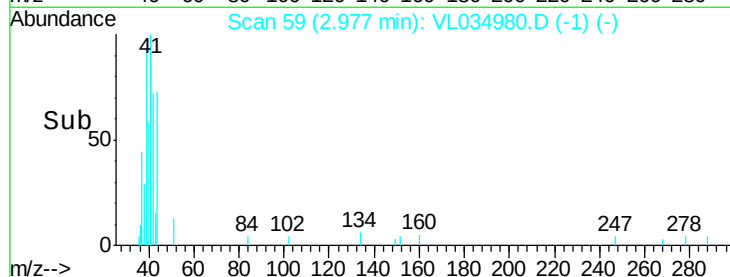
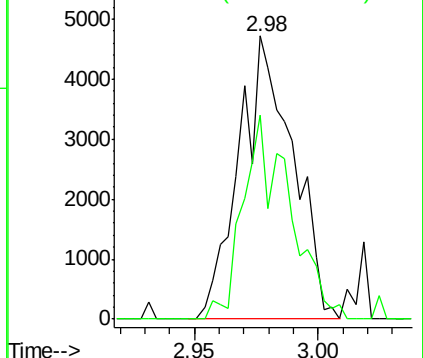
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.065 ppbv m

RT: 8.13 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VL034980.D

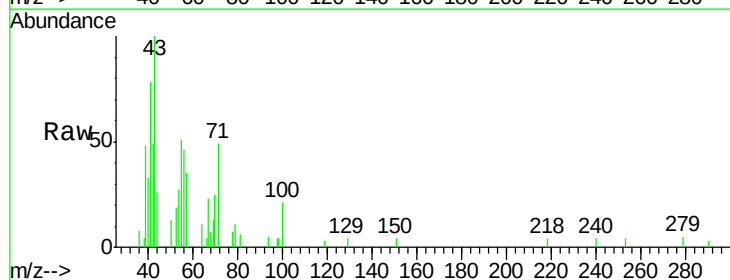
Acq: 7 May 2020 23:10

Tgt Ion: 43 Resp: 8019

Ion Ratio Lower Upper

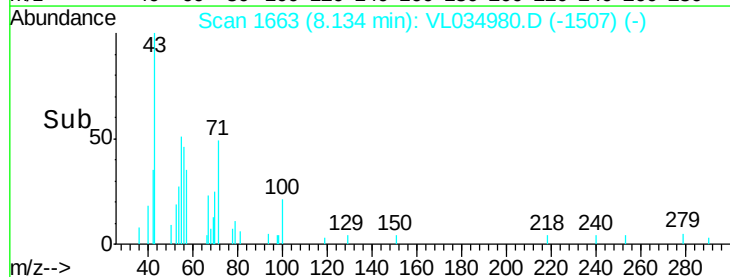
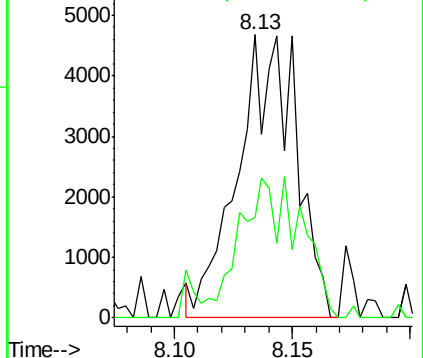
43 100

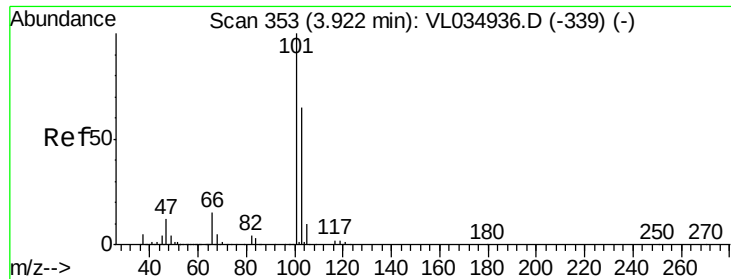
57 0.0 41.1 61.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





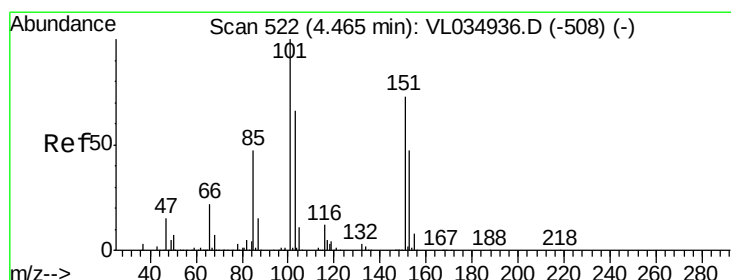
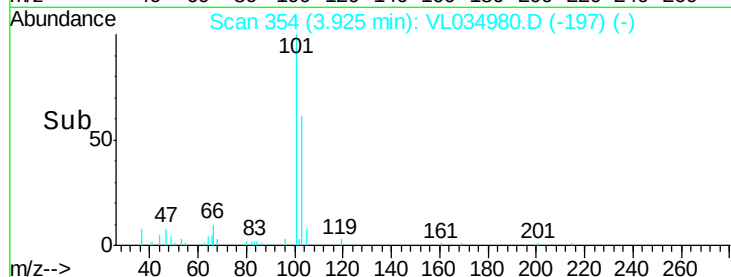
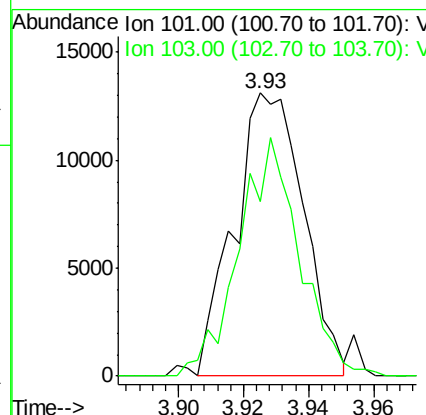
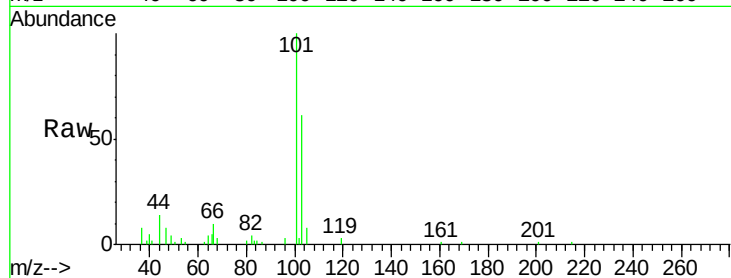
#11
 Trichlorofluoromethane
 Concen: 0.133 ppbv m
 RT: 3.93 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.5	51.9	77.9

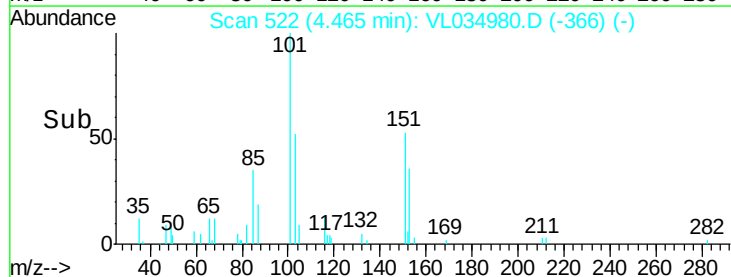
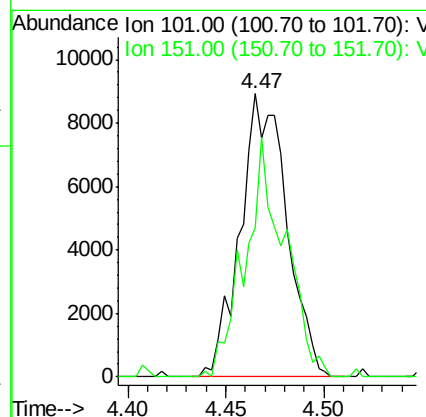
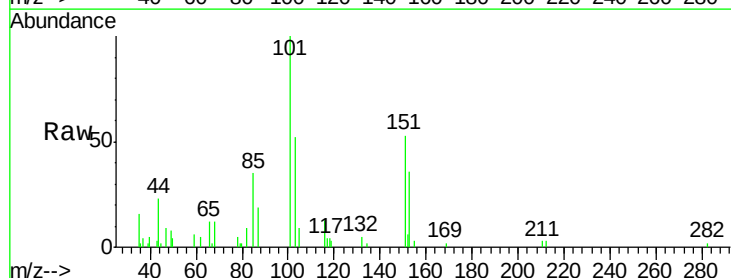
Manual Integrations
 APPROVED

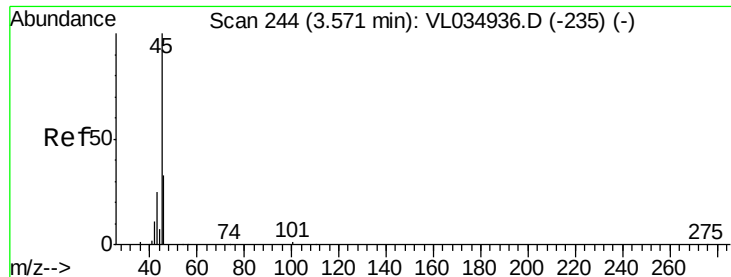
MMDadoda
 5/8/2020 5:22:53 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.141 ppbv m
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
101	100		
151	72.9	57.6	86.4





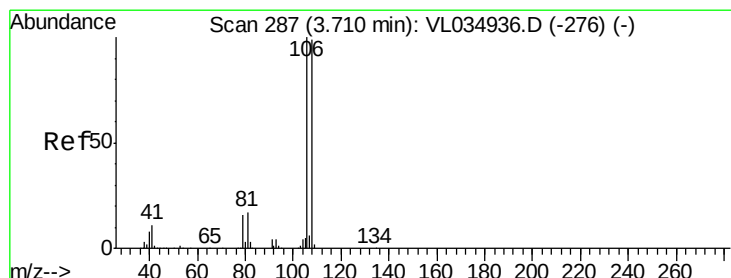
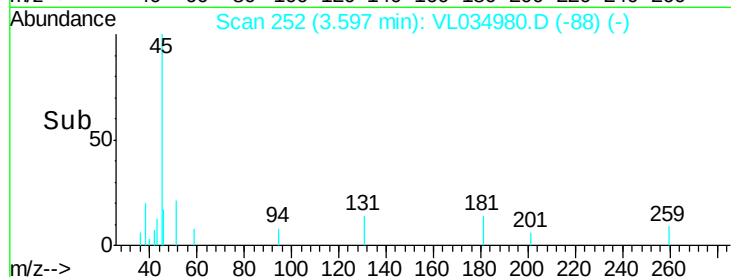
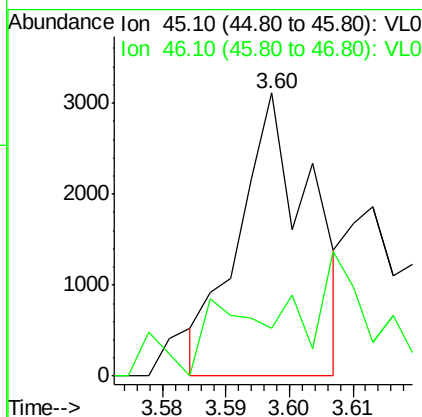
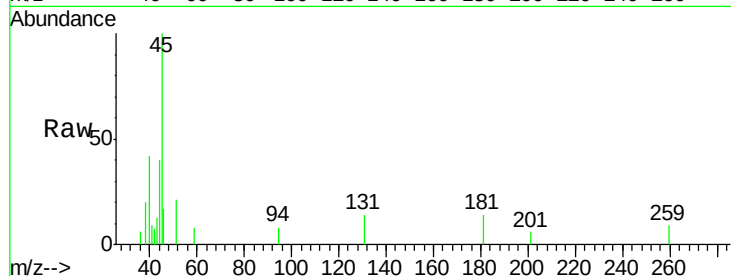
#13
Ethanol
Concen: 0.149 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. 0.03 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.3	57.3#

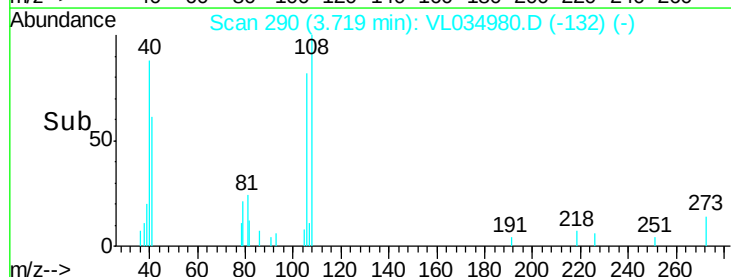
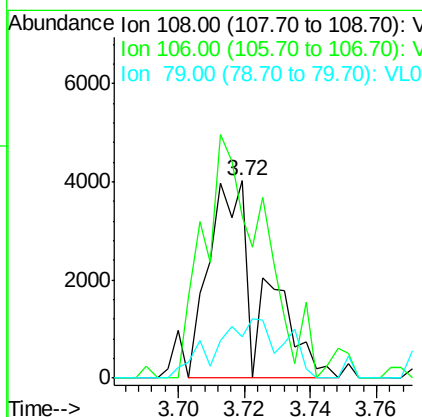
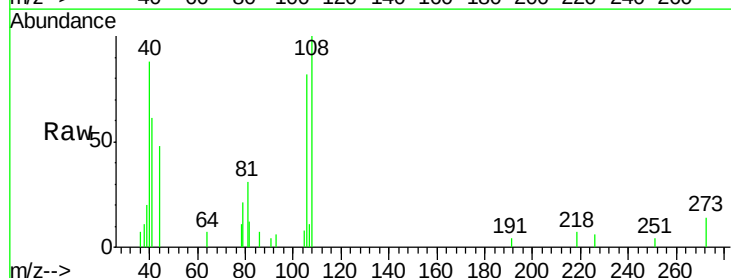
Manual Integrations
APPROVED

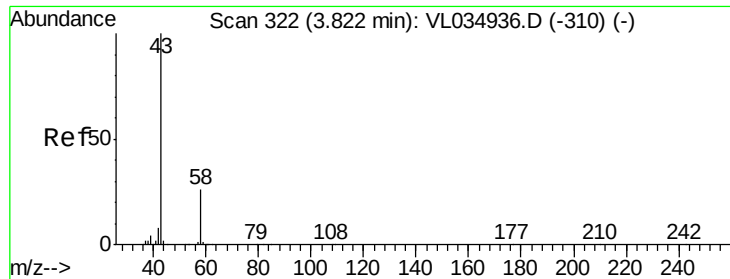
MMDadoda
5/8/2020 5:22:53 PM



#14
Bromoethene
Concen: 0.102 ppbv m
RT: 3.72 min Scan# 290
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
108	100		
106	147.9	84.9	127.3#
79	0.0	14.1	21.1#





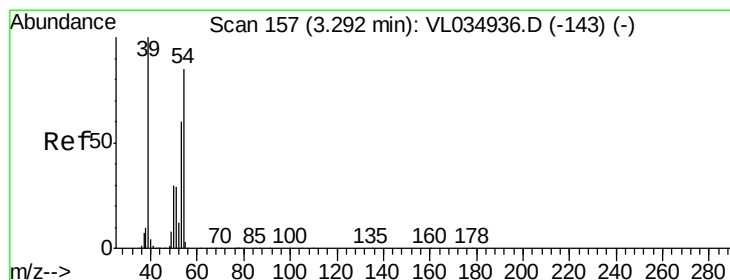
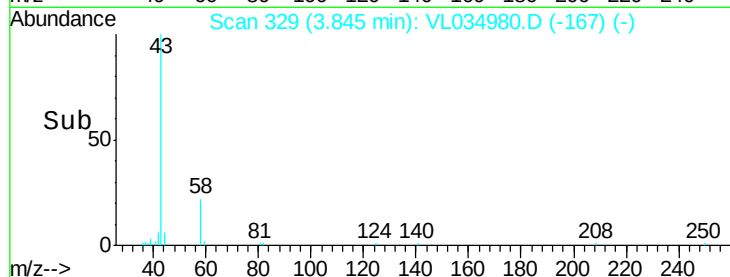
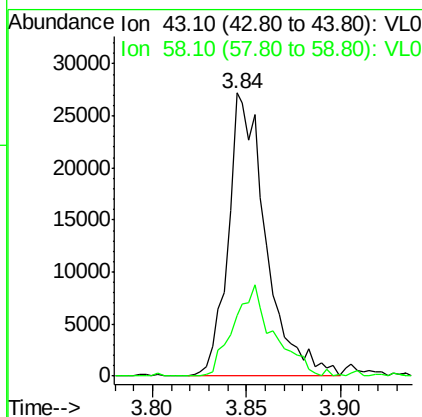
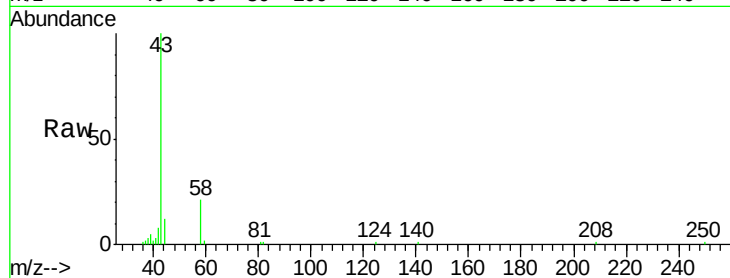
#15
Acetone
Concen: 0.288 ppbv m
RT: 3.84 min Scan# 329
Delta R.T. 0.02 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion: 43 Resp: 38086
Ion Ratio Lower Upper
43 100
58 0.0 21.7 32.5#

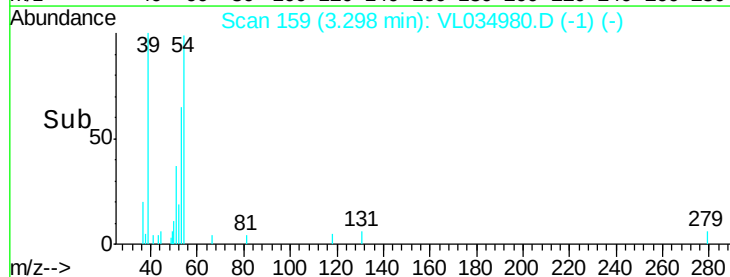
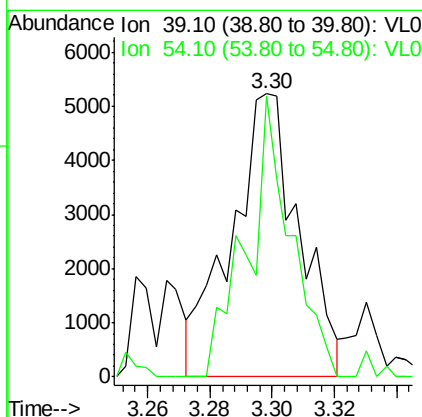
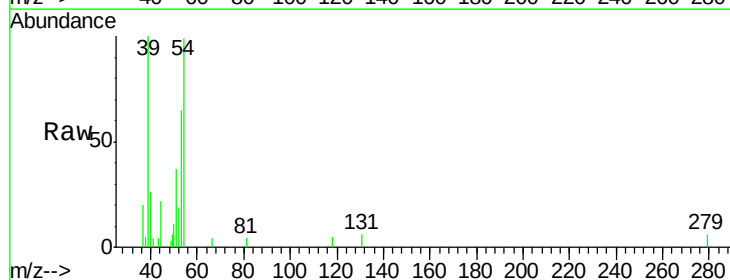
Manual Integrations
APPROVED

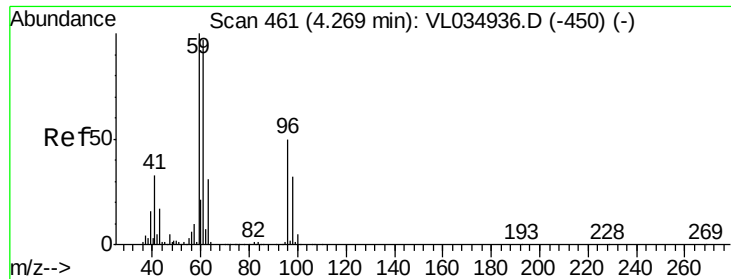
MMDadoda
5/8/2020 5:22:53 PM



#16
1,3-Butadiene
Concen: 0.138 ppbv m
RT: 3.30 min Scan# 159
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion: 39 Resp: 7855
Ion Ratio Lower Upper
39 100
54 67.8 66.6 100.0





#17

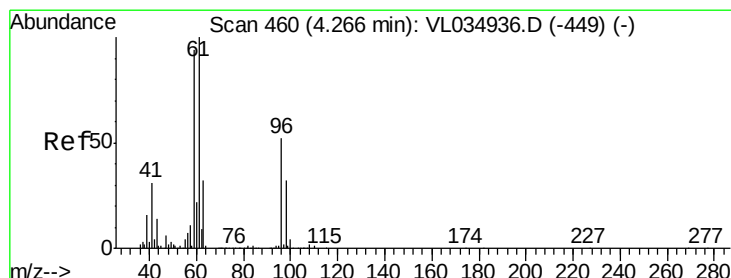
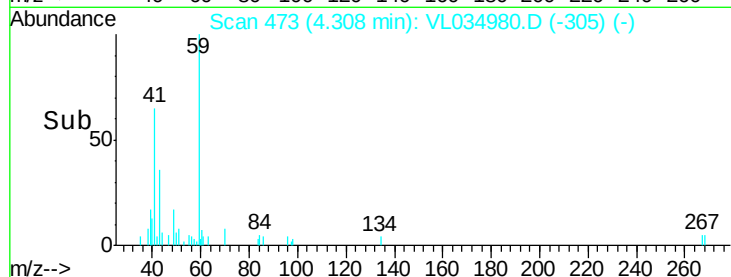
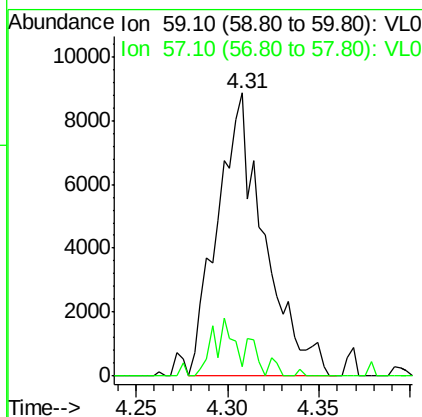
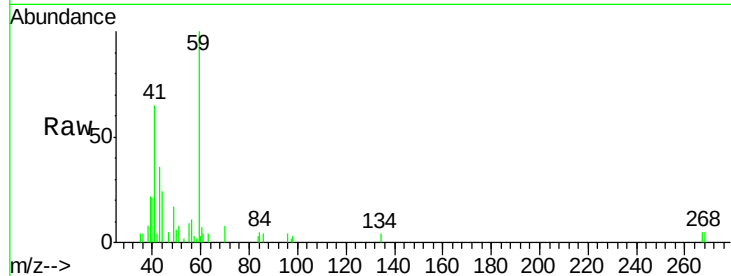
tert-Butyl alcohol
Concen: 0.134 ppbv m
RT: 4.31 min Scan# 473
Delta R.T. 0.04 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion: 59 Resp: 15755
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

Manual Integrations
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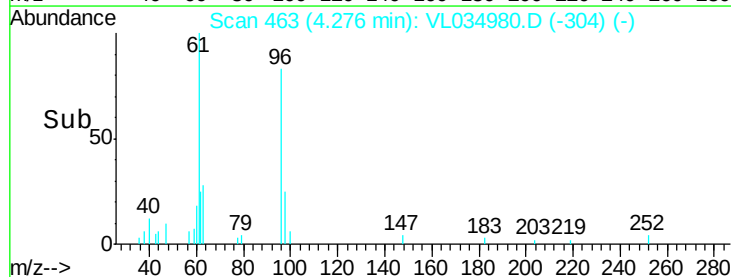
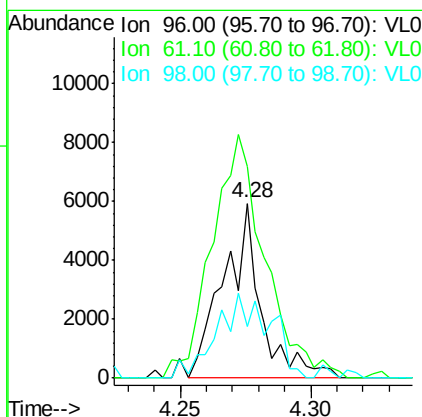
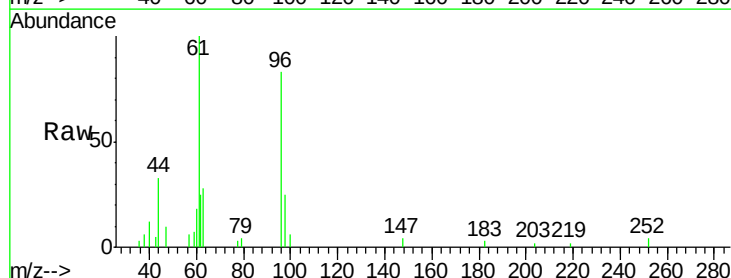
MMDadoda
5/8/2020 5:22:53 PM

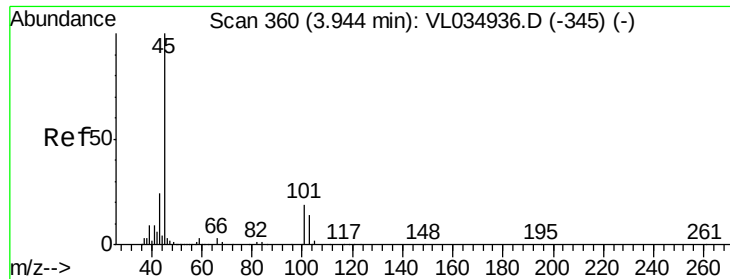


#18

1,1-Dichloroethene
Concen: 0.132 ppbv m
RT: 4.28 min Scan# 463
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion: 96 Resp: 5971
Ion Ratio Lower Upper
96 100
61 121.0 152.4 228.6#
98 29.8 48.8 73.2#





#19

Isopropyl Alcohol

Concen: 0.144 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.03 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 45 Resp: 12707

Ion Ratio Lower Upper

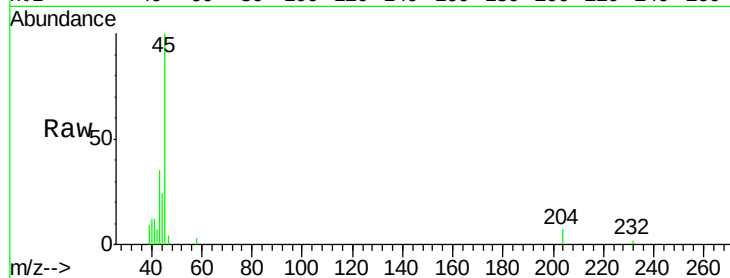
45 100

58 0.0 1.7 2.5#

Manual Integrations
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MMDadoda

5/8/2020 5:22:53 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

10000

8000

6000

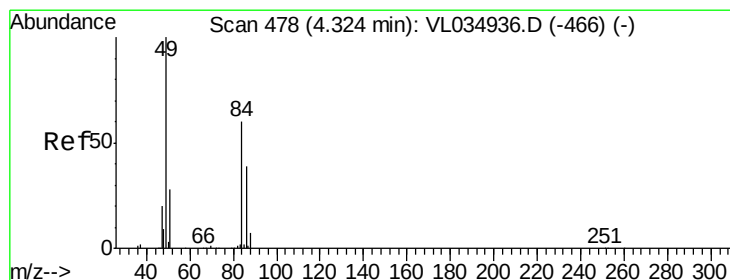
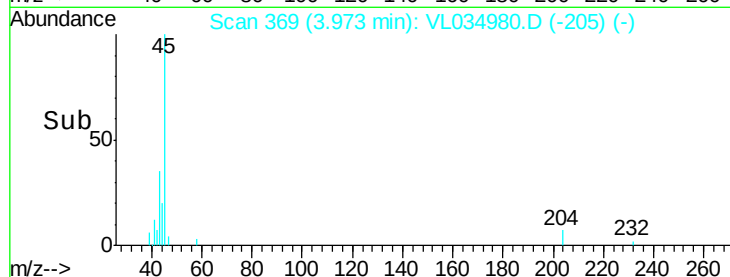
4000

2000

0

3.95 4.00

Time-->



#20

Methylene Chloride

Concen: 0.269 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion: 84 Resp: 11782

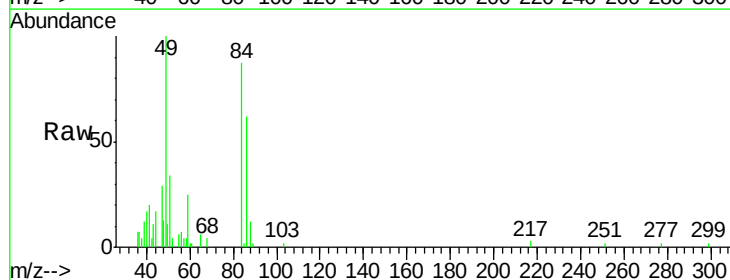
Ion Ratio Lower Upper

84 100

49 128.1 132.5 198.7#

51 40.5 38.4 57.6

86 71.6 51.2 76.8



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

20000

15000

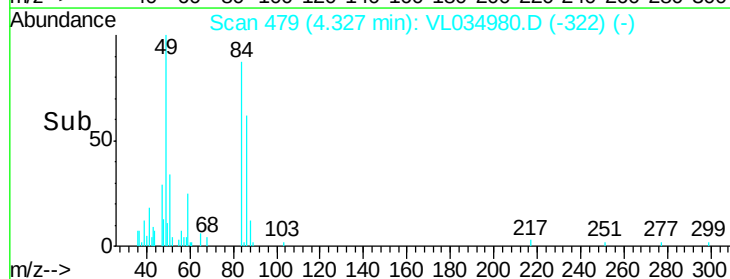
10000

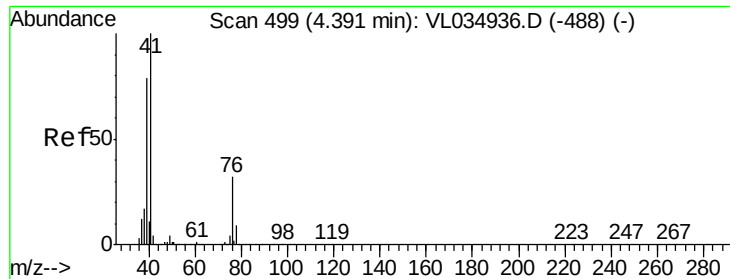
5000

0

4.30 4.35

Time-->





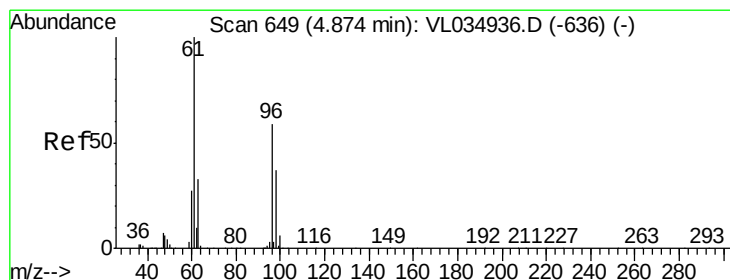
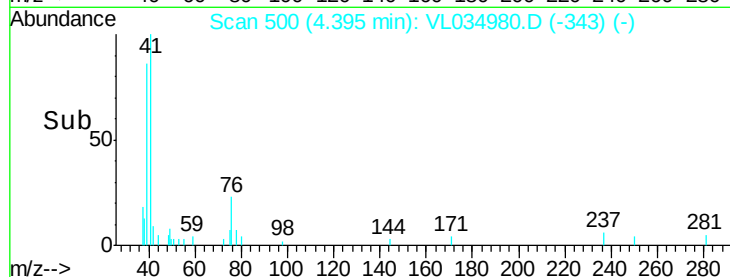
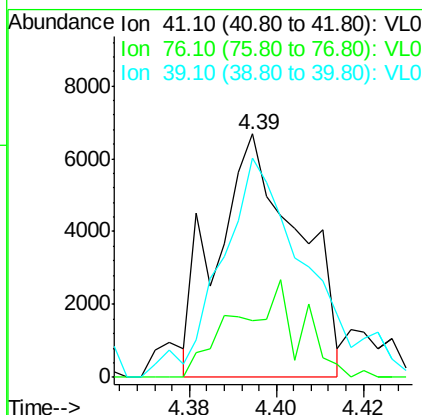
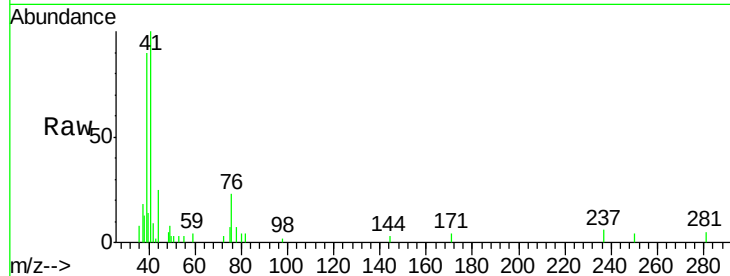
#21
Allvl Chloride
Concen: 0.116 ppbv m
RT: 4.39 min Scan# 500
Delta R.T. 0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
41	100	8691		
76	31.6		23.6	35.4
39	100.2		61.9	92.9#

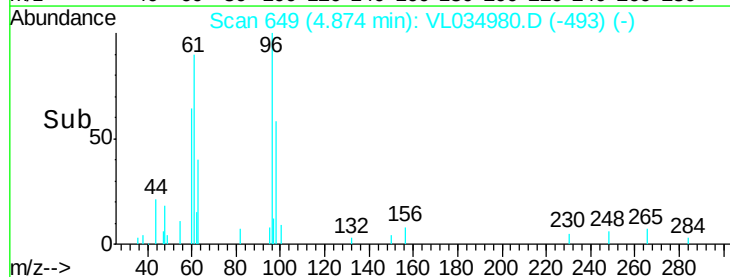
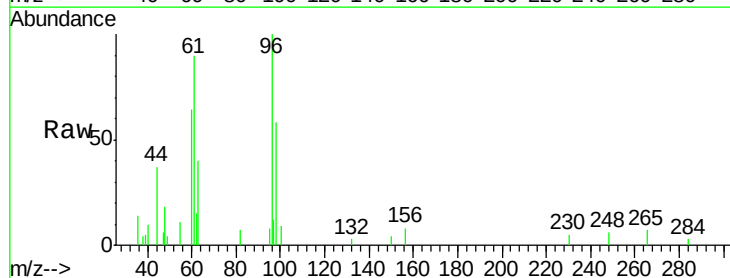
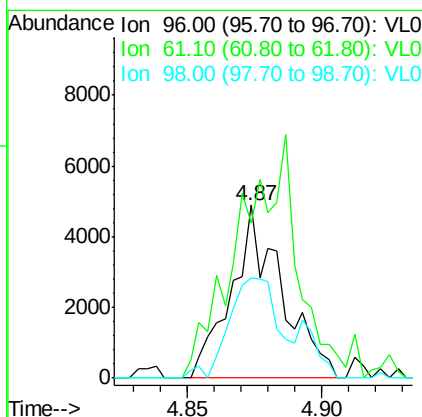
Manual Integrations
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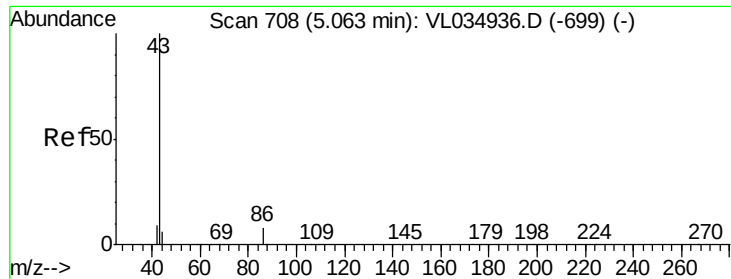
MMDadoda
5/8/2020 5:22:53 PM



#22
trans-1,2-Dichloroethene
Concen: 0.141 ppbv m
RT: 4.87 min Scan# 649
Delta R.T. -0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	6342		
61	89.9		135.3	202.9#
98	58.3		50.4	75.6





#23

Vinyl Acetate

Concen: 0.094 ppbv m

RT: 5.08 min Scan# 712

Delta R.T. 0.01 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

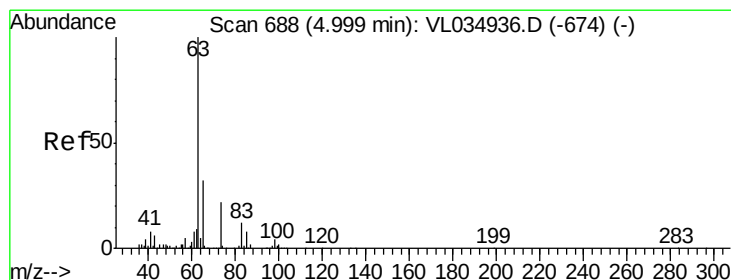
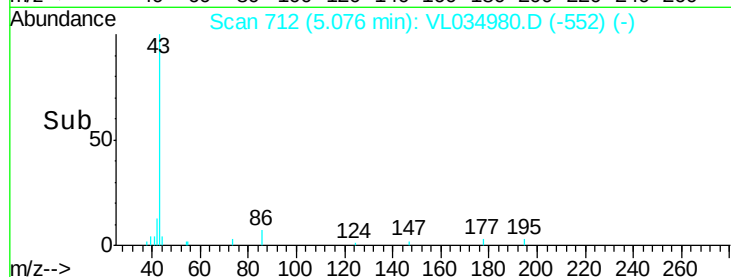
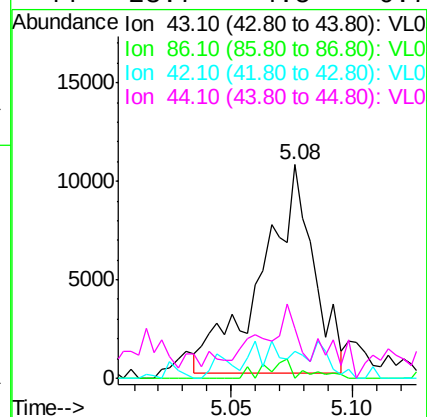
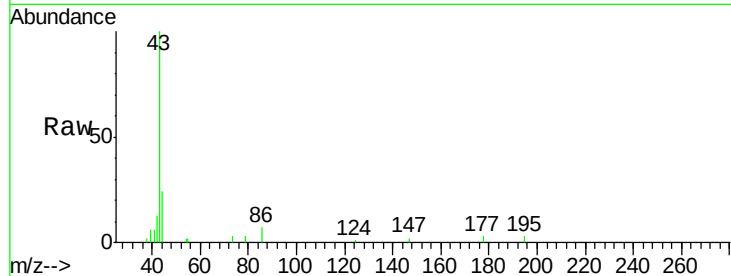
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	43	Resp:	15760
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	12.7	8.0	12.0#
44	23.7	4.5	6.7#

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MMDadoda
5/8/2020 5:22:53 PM



#24

1,1-Dichloroethane

Concen: 0.131 ppbv m

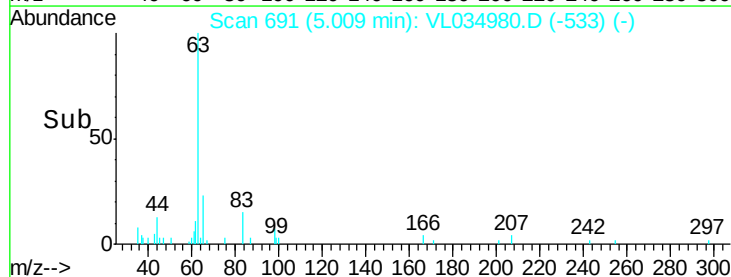
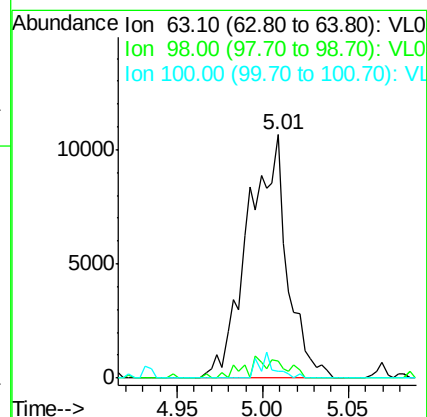
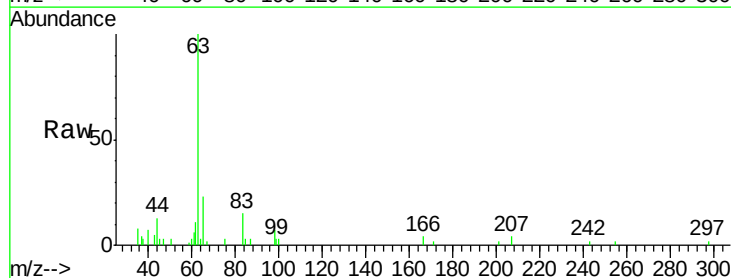
RT: 5.01 min Scan# 691

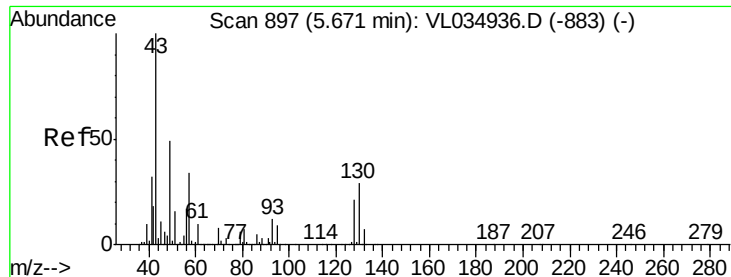
Delta R.T. 0.01 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion:	63	Resp:	16935
Ion	Ratio	Lower	Upper
63	100		
98	7.1	2.0	6.0#
100	2.8	1.1	3.5





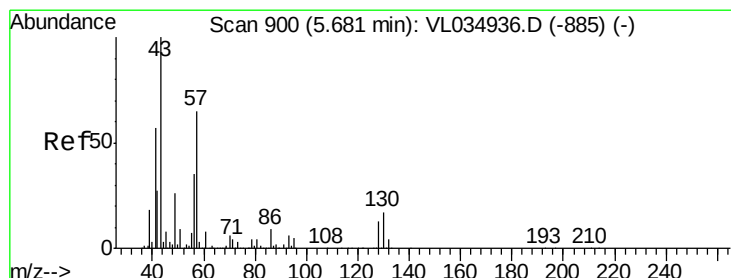
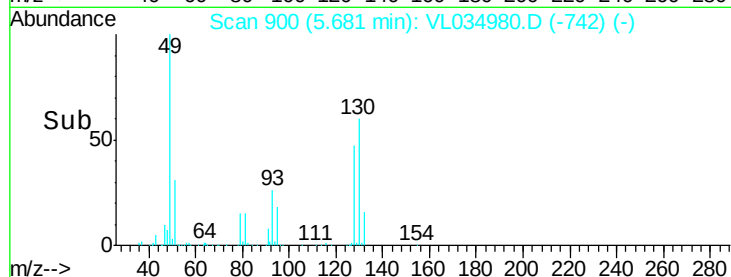
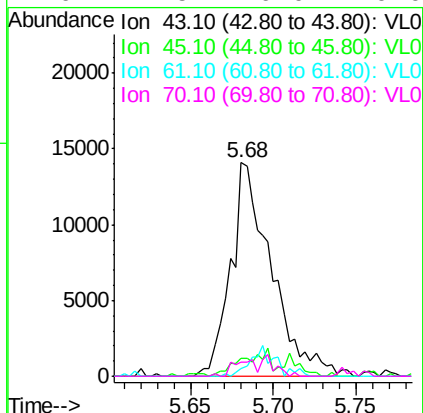
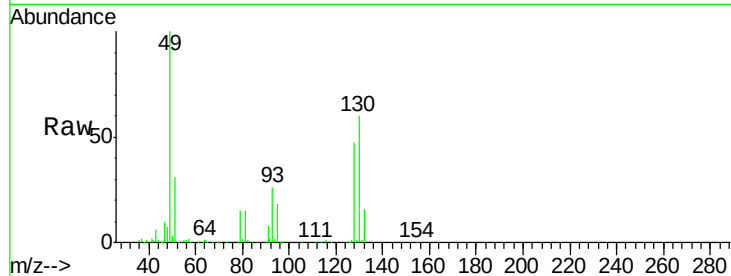
#25
Ethyl Acetate
Concen: 0.107 ppbv m
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	43	Resp:	23847
Ion	Ratio	Lower	Upper
43	100		
45	13.6	8.1	12.1#
61	8.9	7.8	11.8
70	7.5	6.0	9.0

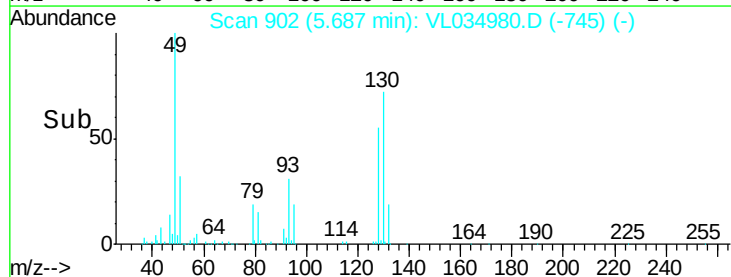
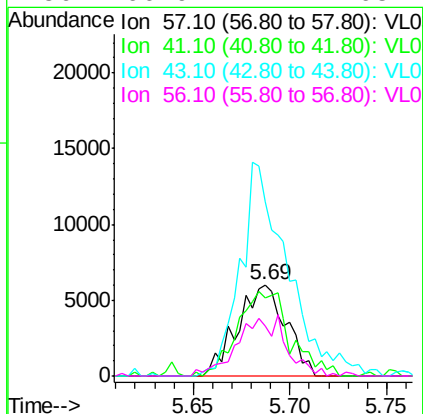
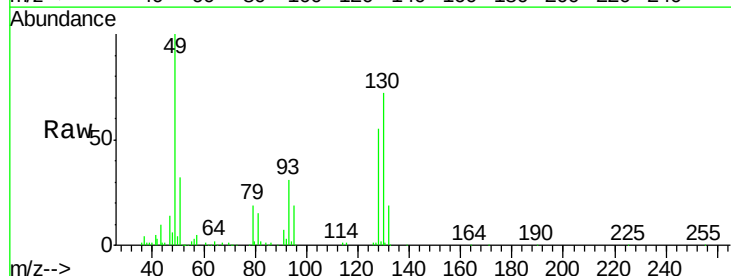
Manual Integrations
APPROVED

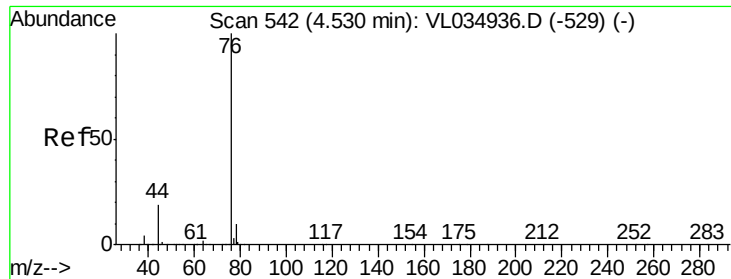
MMDadoda
5/8/2020 5:22:53 PM



#26
Hexane
Concen: 0.108 ppbv m
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	57	Resp:	10403
Ion	Ratio	Lower	Upper
57	100		
41	107.4	72.7	109.1
43	230.7	182.1	273.1
56	66.9	42.2	63.2#





#27

Carbon Disulfide

Concen: 0.119 ppbv m

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

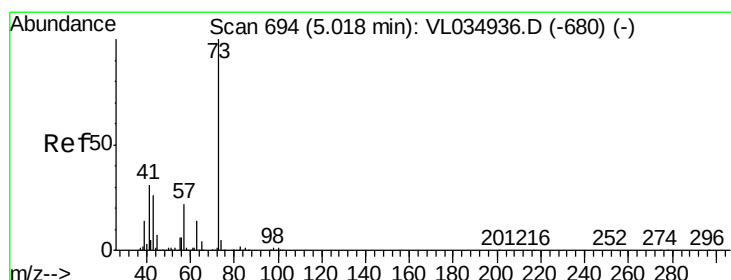
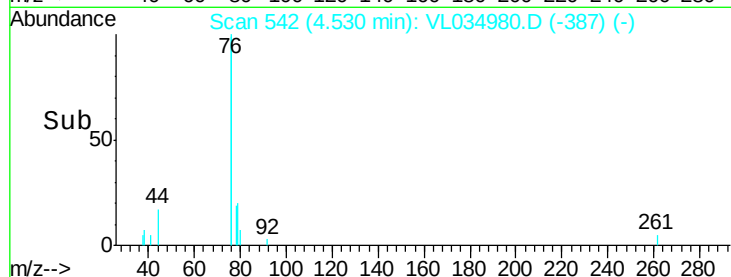
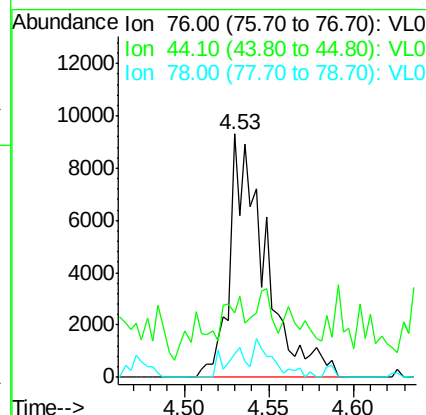
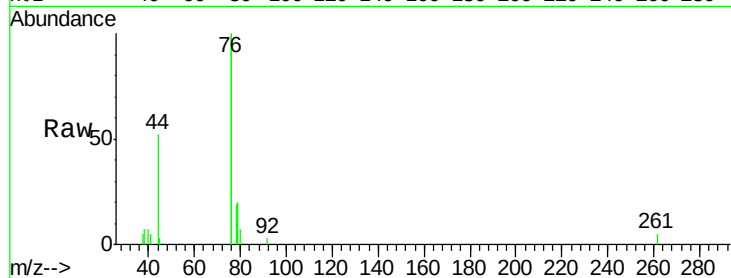
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	76	Resp:	13469
Ion Ratio	Lower	Upper	
76	100		
44	0.0	15.2	22.8#
78	0.0	7.7	11.5#

Manual Integrations
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MMDadoda
5/8/2020 5:22:53 PM



#28

Methyl tert-Butyl Ether

Concen: 0.094 ppbv m

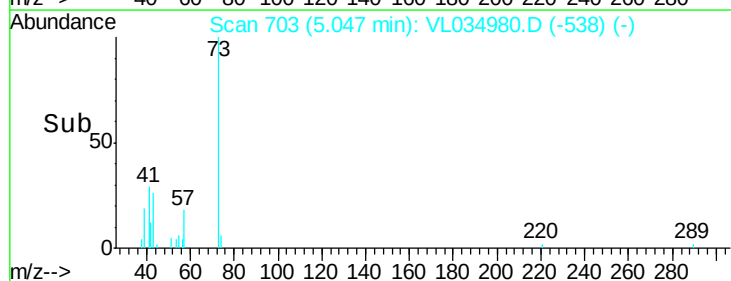
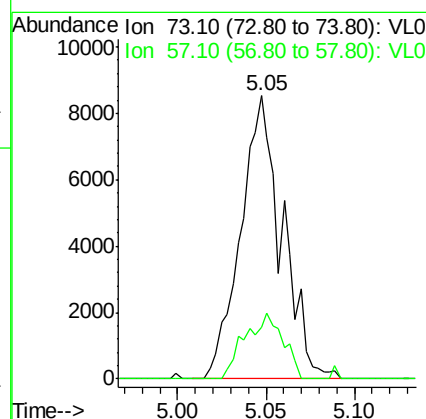
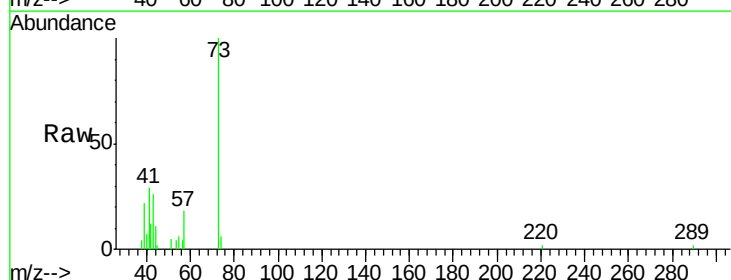
RT: 5.05 min Scan# 703

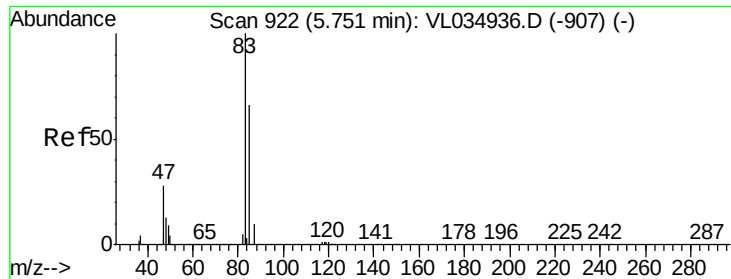
Delta R.T. 0.03 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion:	73	Resp:	13862
Ion Ratio	Lower	Upper	
73	100		
57	21.3	18.3	27.5





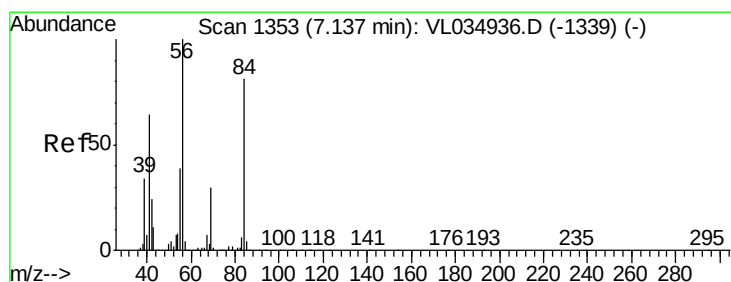
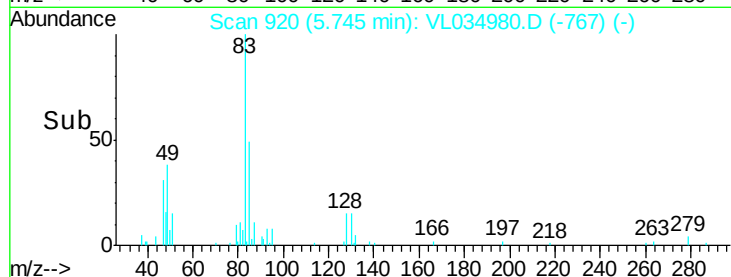
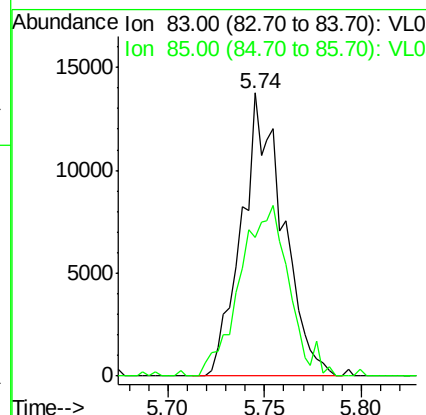
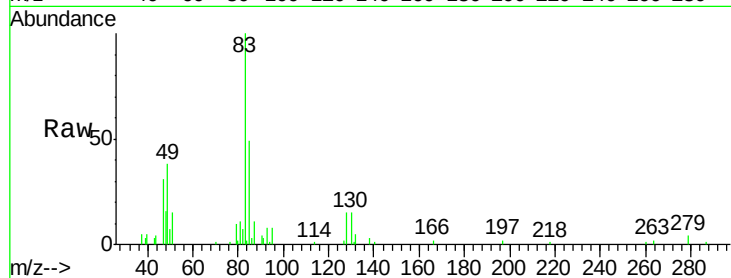
#29
Chloroform
Concen: 0.130 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion: 83 Resp: 20461
Ion Ratio Lower Upper
83 100
85 48.9 53.0 79.6#

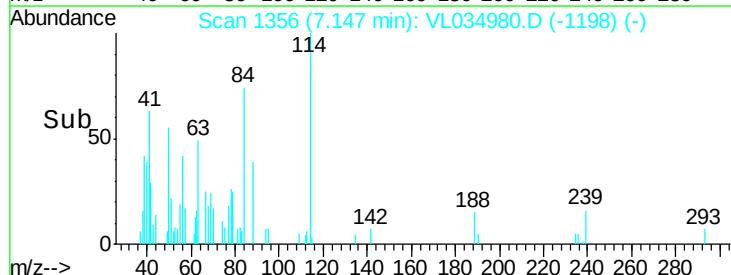
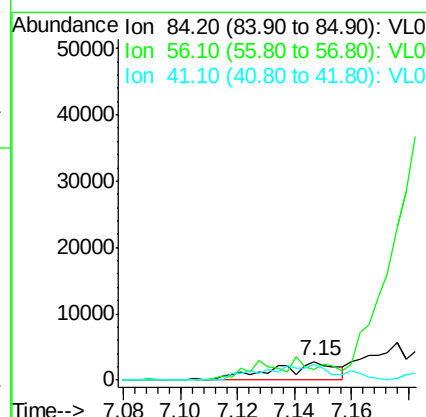
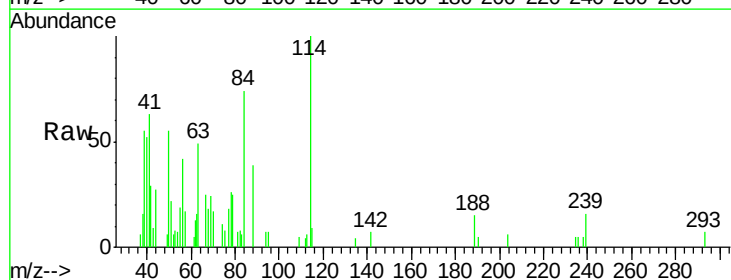
Manual Integrations
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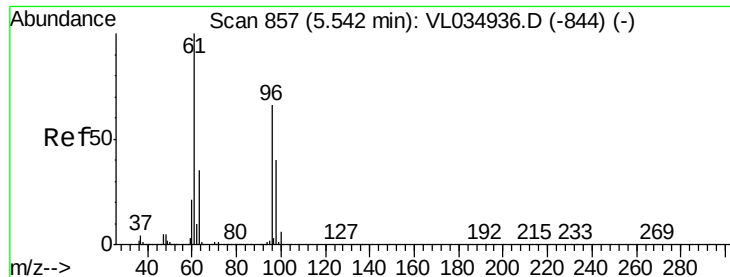
MMDadoda
5/8/2020 5:22:53 PM



#30
Cyclohexane
Concen: 0.058 ppbv m
RT: 7.15 min Scan# 1356
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion: 84 Resp: 4281
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.2#
41 99.2 66.7 100.1





#31

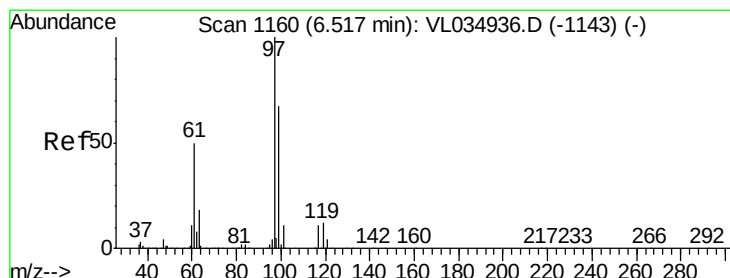
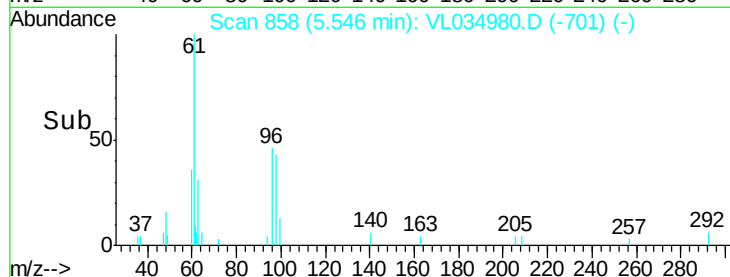
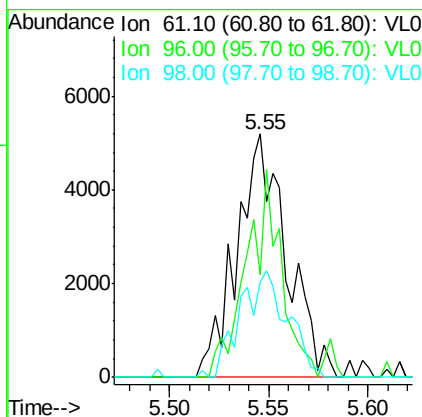
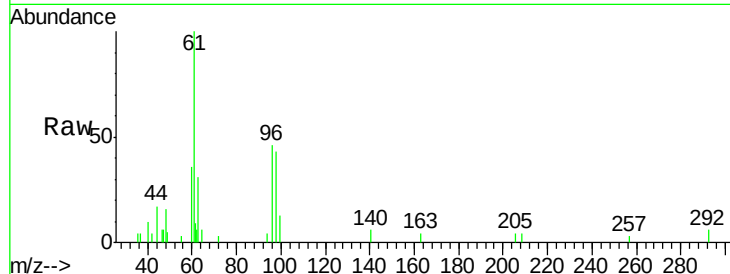
cis-1,2-Dichloroethene
 Concen: 0.096 ppbv m
 RT: 5.55 min Scan# 858
 Delta R.T. 0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
61	100		
96	45.8	53.0	79.6#
98	42.6	32.2	48.2

Manual Integrations
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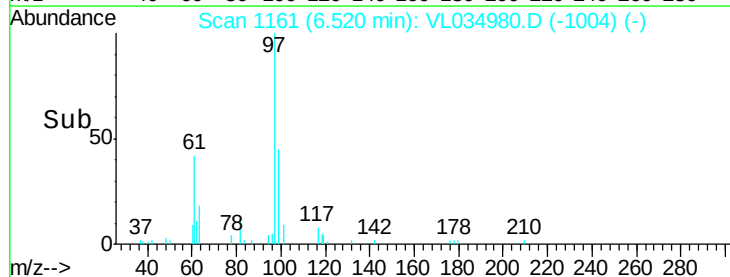
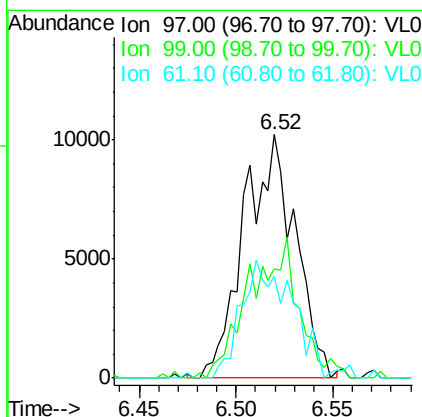
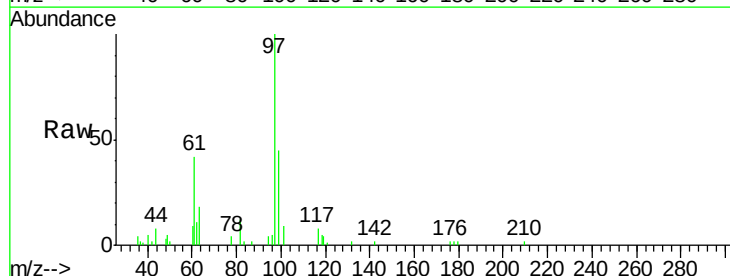
MMDadoda
 5/8/2020 5:22:53 PM

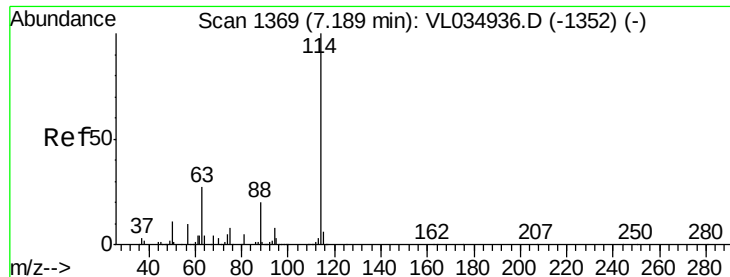


#32

1,1,1-Trichloroethane
 Concen: 0.131 ppbv m
 RT: 6.52 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.1	78.1#
61	0.0	41.8	62.8#





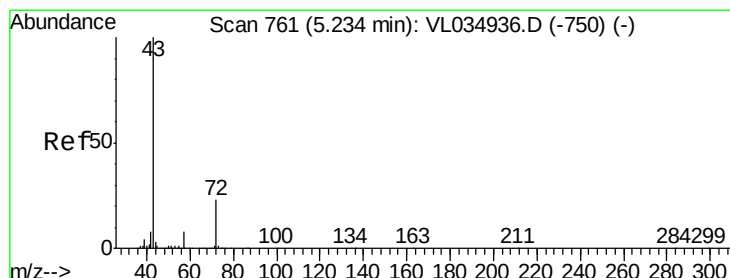
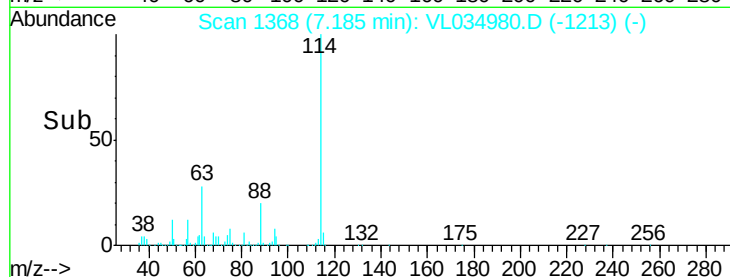
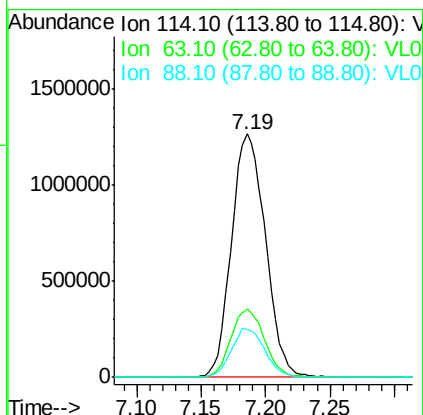
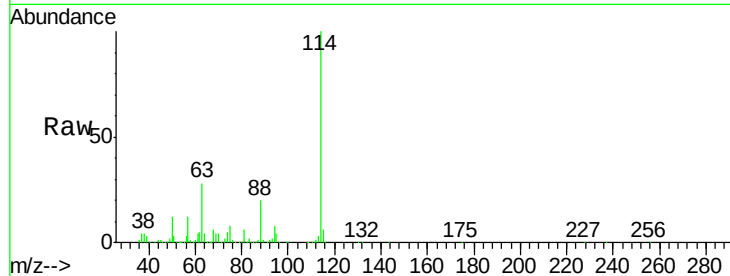
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.2	33.4
88	19.8	15.5	23.3

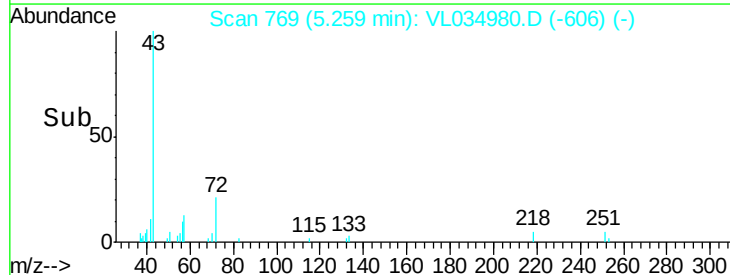
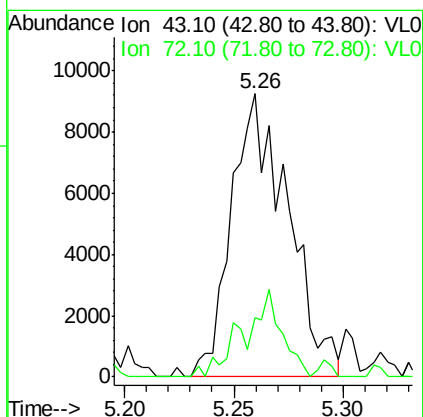
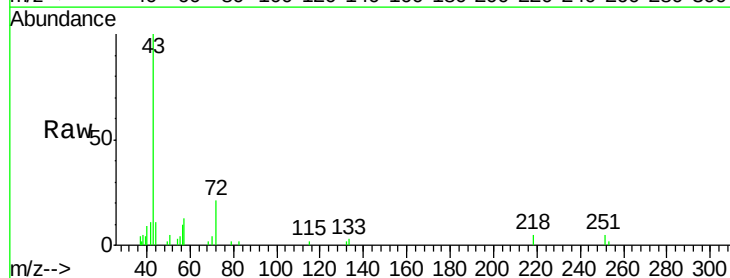
Manual Integrations
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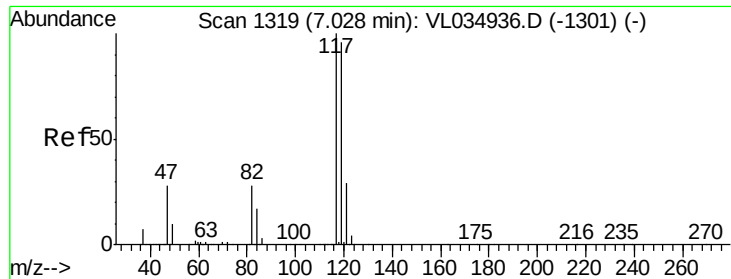
MMDadoda
 5/8/2020 5:22:53 PM



#34
 2-Butanone
 Concen: 0.116 ppbv m
 RT: 5.26 min Scan# 769
 Delta R.T. 0.03 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.0	27.0#





#35

Carbon Tetrachloride

Concen: 0.113 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

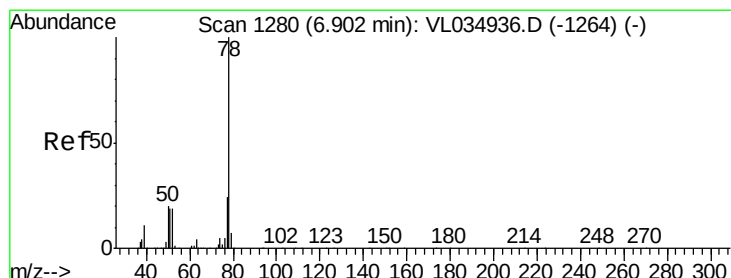
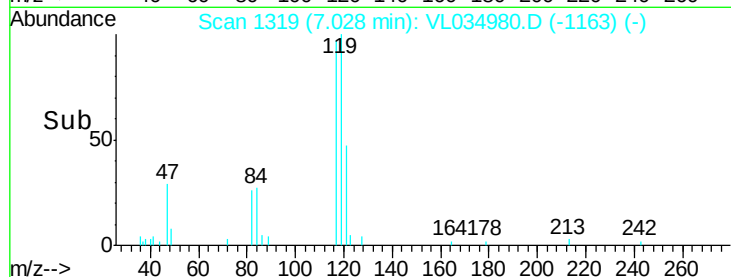
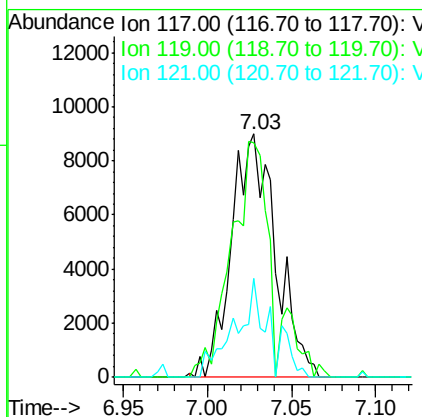
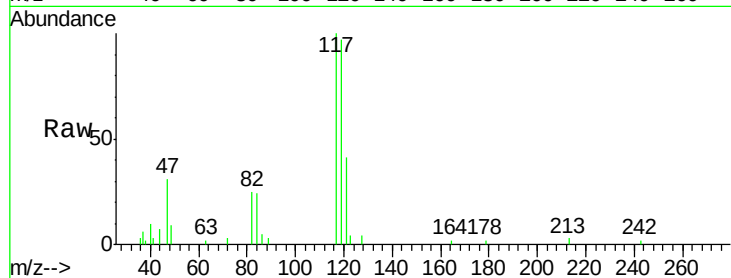
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	117	Resp:	16565
Ion Ratio	Lower	Upper	
117	100		
119	96.5	77.0	115.6
121	40.6	23.0	34.6#

Manual Integrations
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MMDadoda
5/8/2020 5:22:53 PM



#36

Benzene

Concen: 0.077 ppbv m

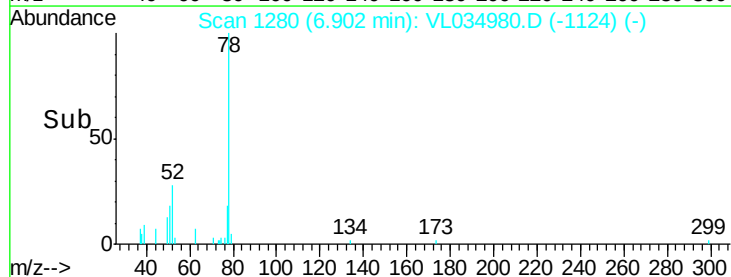
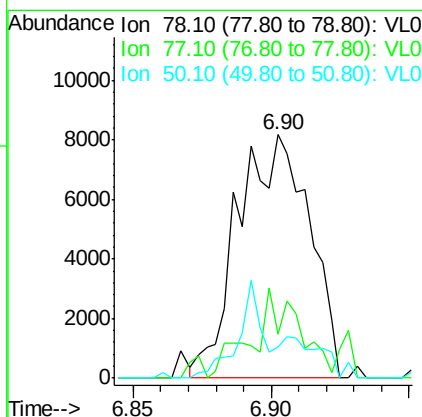
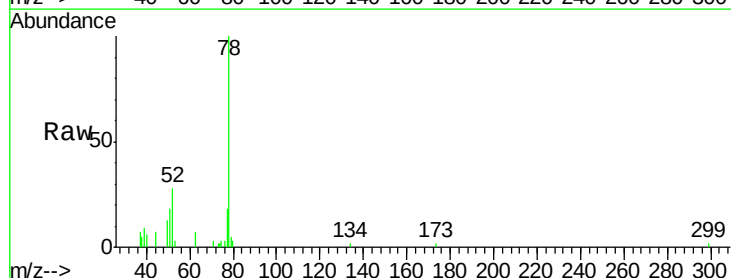
RT: 6.90 min Scan# 1280

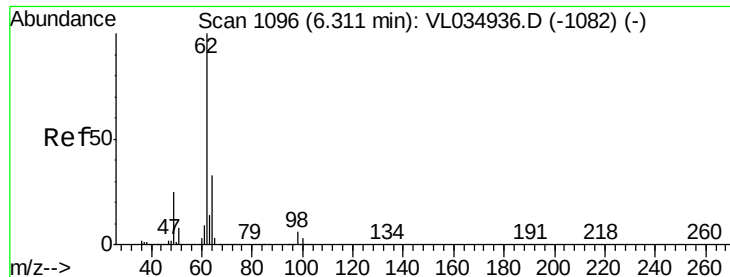
Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion:	78	Resp:	14660
Ion Ratio	Lower	Upper	
78	100		
77	18.1	19.0	28.6#
50	12.9	15.8	23.8#





#37

1,2-Dichloroethane

Concen: 0.122 ppbv m

RT: 6.31 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

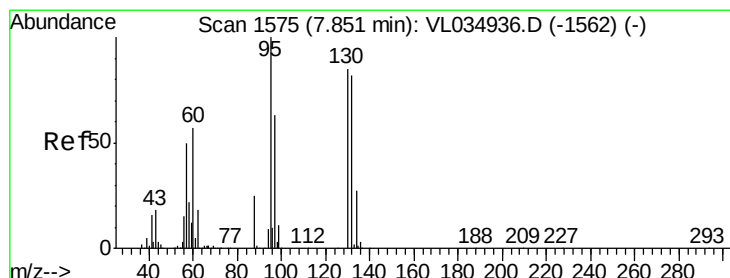
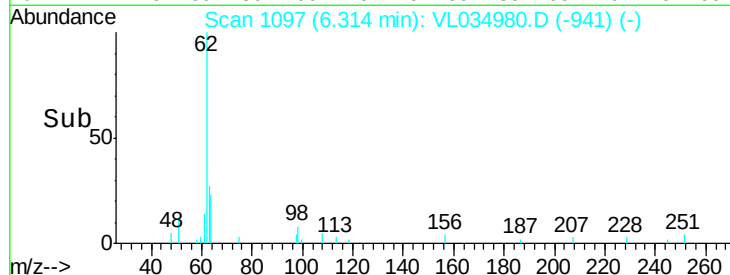
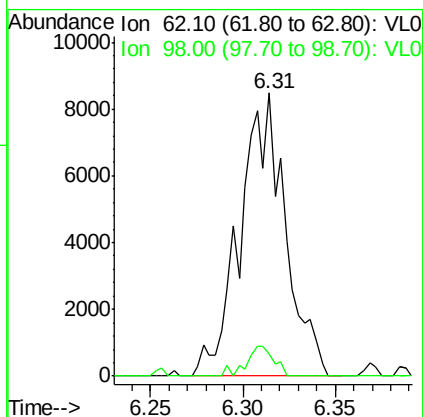
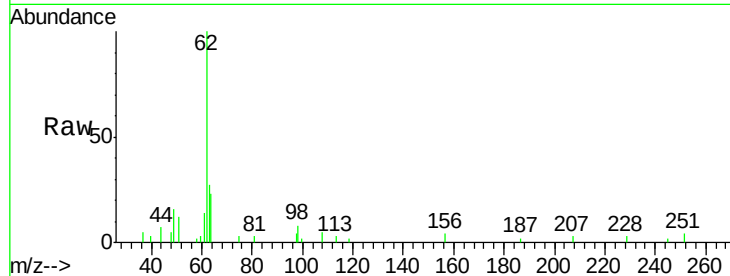
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.8	7.2#

Manual Integrations
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5/8/2020 5:22:53 PM



#38

Trichloroethene

Concen: 0.102 ppbv m

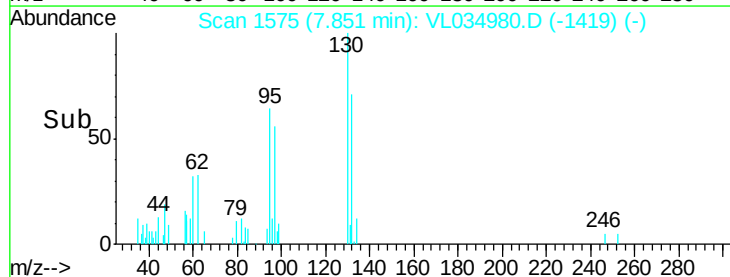
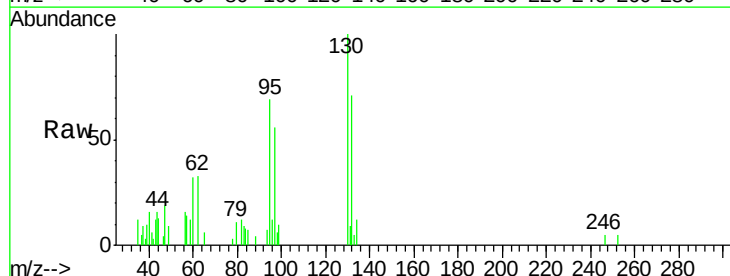
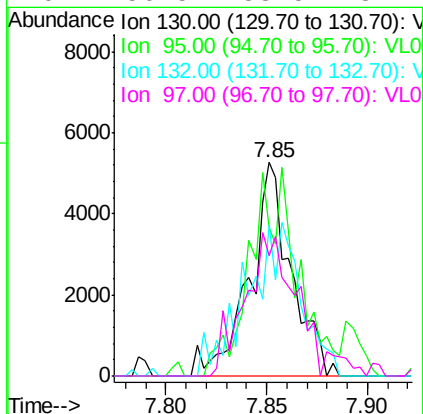
RT: 7.85 min Scan# 1575

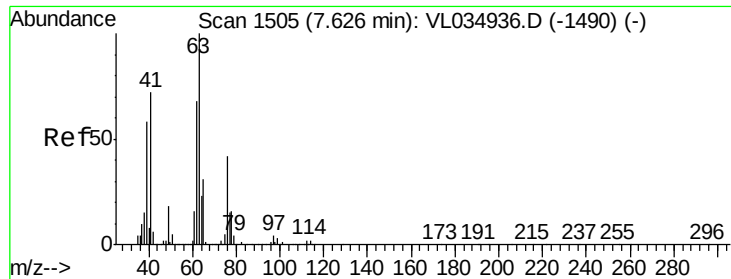
Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	69.3	93.4	140.0#
132	70.5	76.4	114.6#
97	56.5	58.5	87.7#





#39

1,2-Dichloropropane

Concen: 0.114 ppbv m

RT: 7.63 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

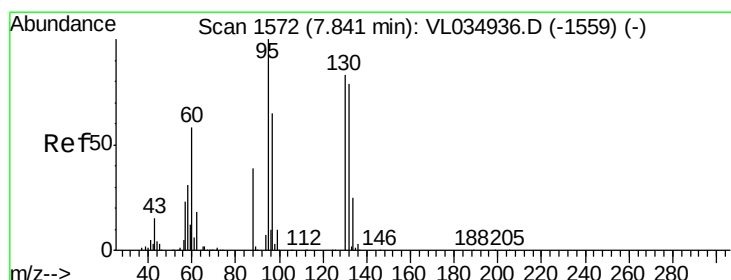
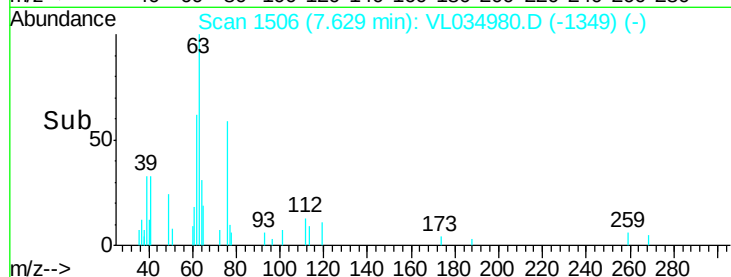
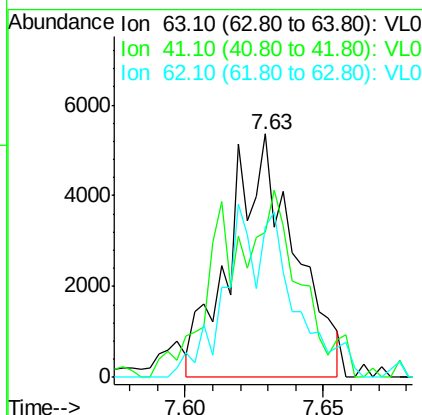
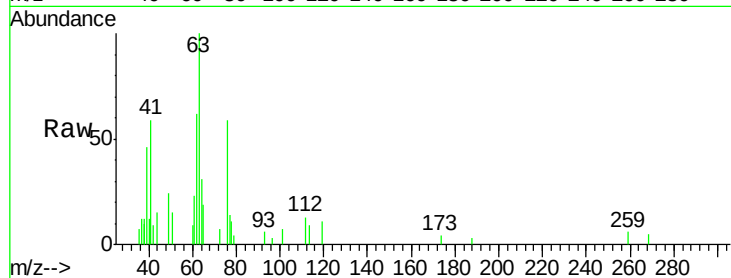
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	63	Resp:	8749
Ion	Ratio	Lower	Upper
63	100		
41	59.5	57.8	86.8
62	61.8	54.2	81.2

Manual Integrations
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MMDadoda
5/8/2020 5:22:53 PM



#40

1,4-Dioxane

Concen: 0.087 ppbv m

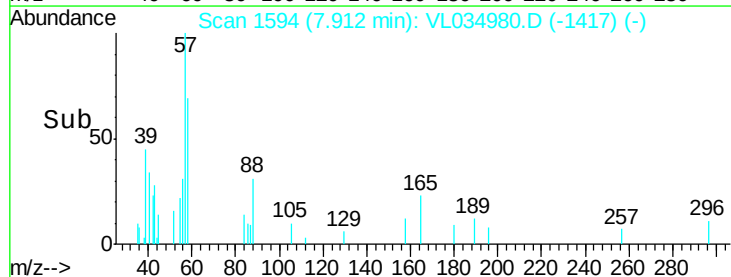
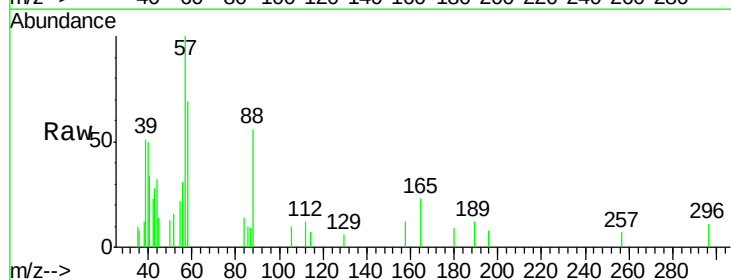
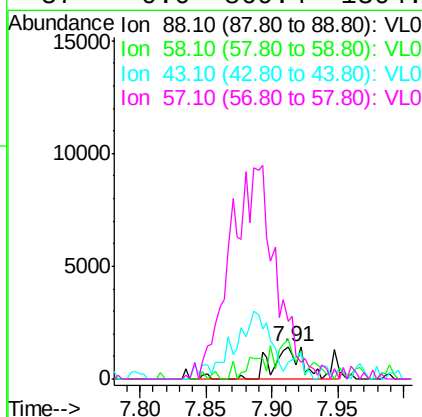
RT: 7.91 min Scan# 1594

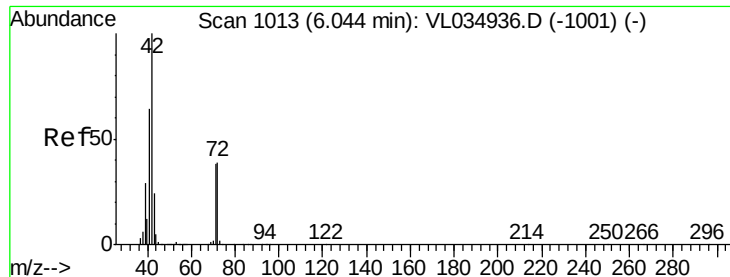
Delta R.T. 0.07 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion:	88	Resp:	2695
Ion	Ratio	Lower	Upper
88	100		
58	6.1	105.1	157.7#
43	26.9	202.6	303.8#
57	0.0	869.4	1304.0#





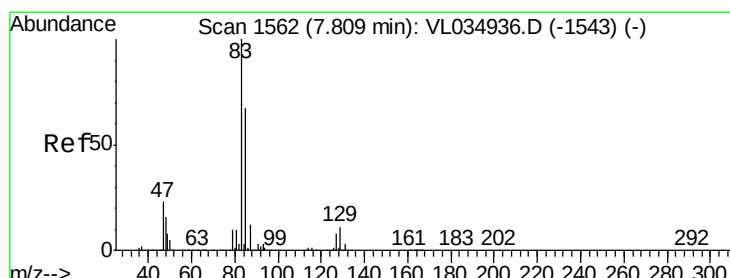
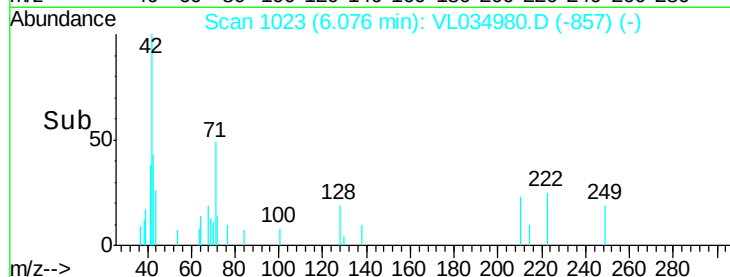
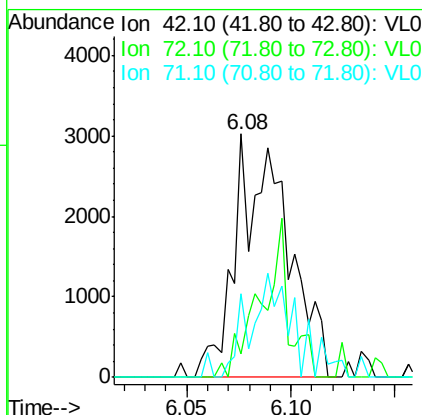
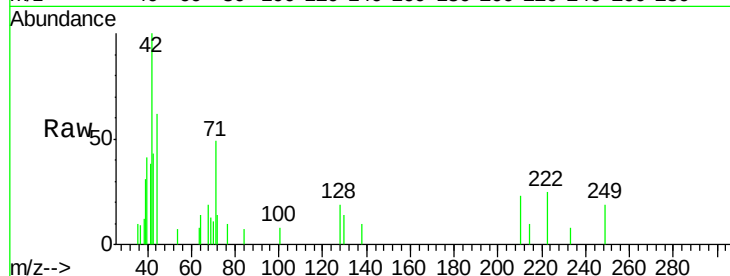
#41
Tetrahydrofuran
Concen: 0.068 ppbv m
RT: 6.08 min Scan# 1023
Delta R.T. 0.03 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.0#
71	0.0	29.8	44.8#

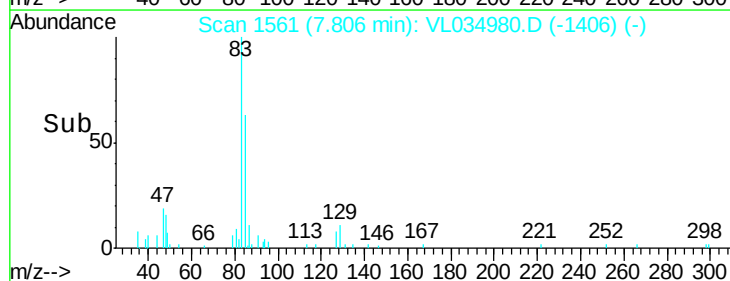
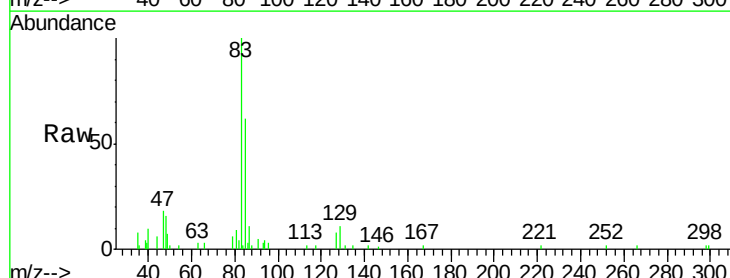
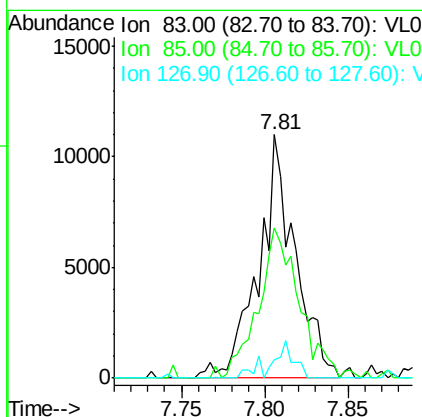
Manual Integrations
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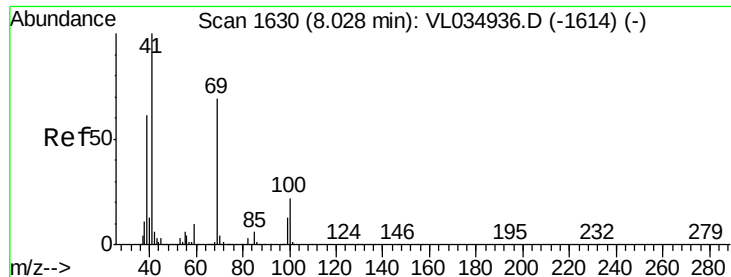
MMDadoda
5/8/2020 5:22:53 PM



#42
Bromodichloromethane
Concen: 0.104 ppbv m
RT: 7.81 min Scan# 1561
Delta R.T. -0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.8	53.4	80.0
127	7.7	6.1	9.1





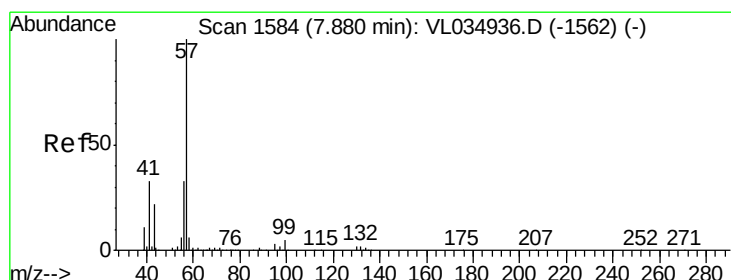
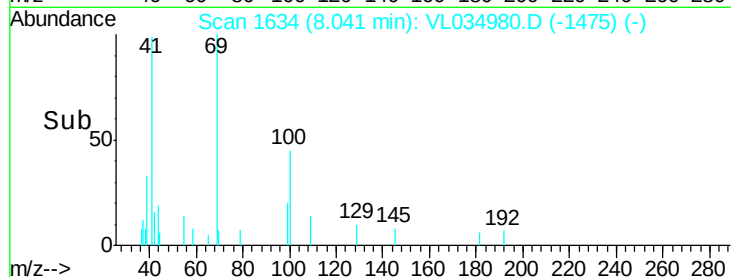
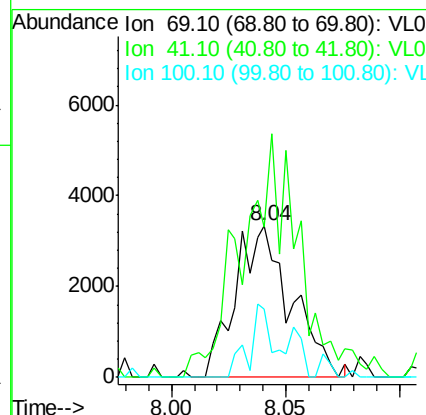
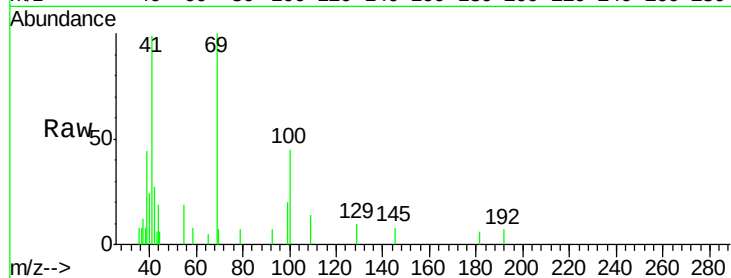
#43
Methvl Methacrylate
Concen: 0.070 ppbv m
RT: 8.04 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	119.8	179.6#
100	0.0	25.0	37.6#

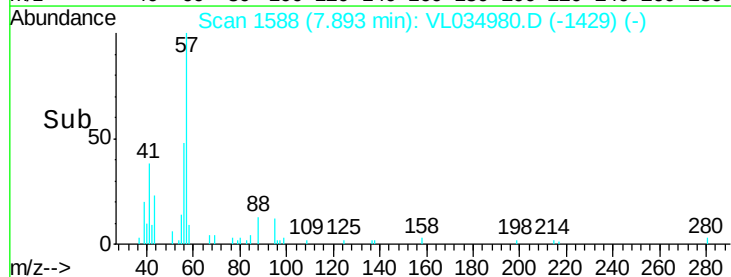
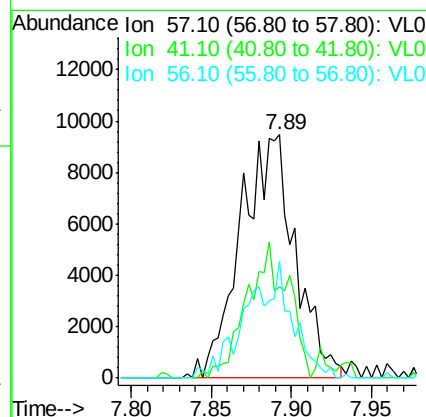
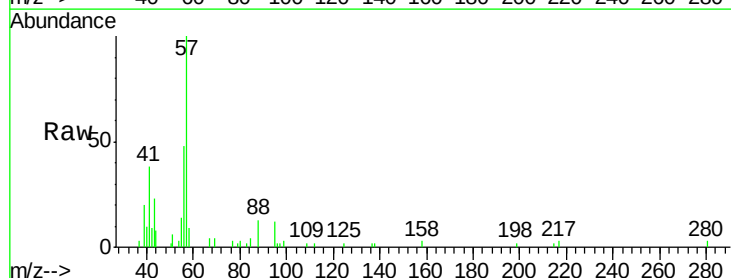
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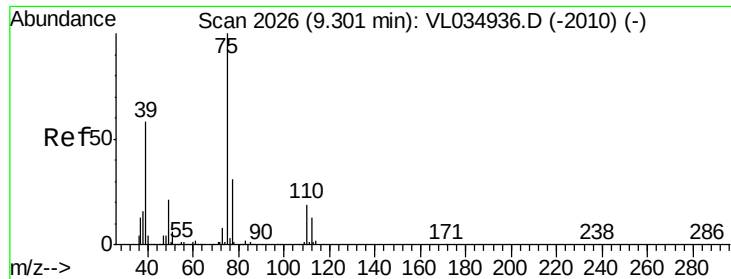
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.066 ppbv m
RT: 7.89 min Scan# 1588
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.4	39.6#
56	0.0	25.5	38.3#





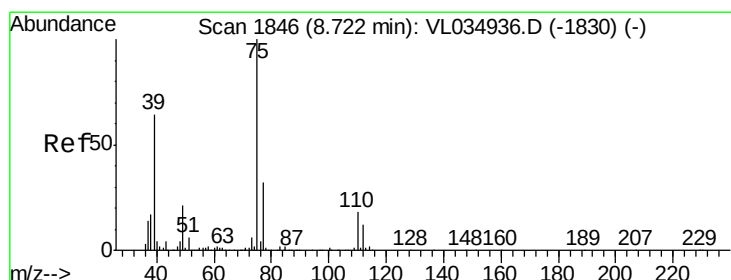
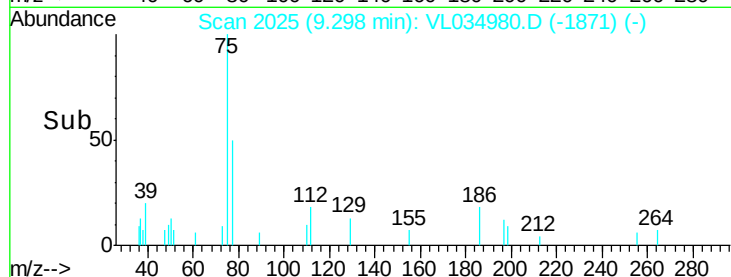
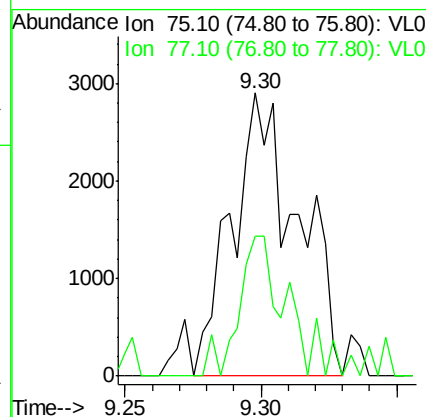
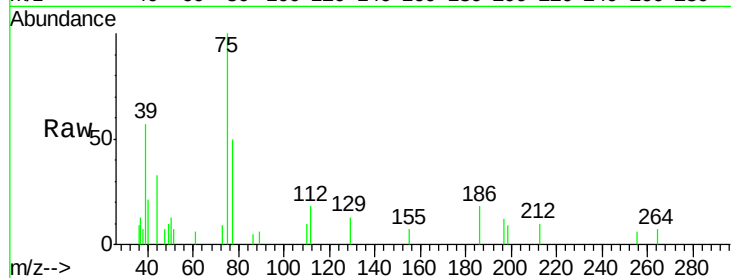
#45
t-1,3-Dichloropropene
Concen: 0.060 ppbv m
RT: 9.30 min Scan# 2025
Delta R.T. -0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion: 75 Resp: 4893
Ion Ratio Lower Upper
75 100
77 49.6 24.9 37.3#

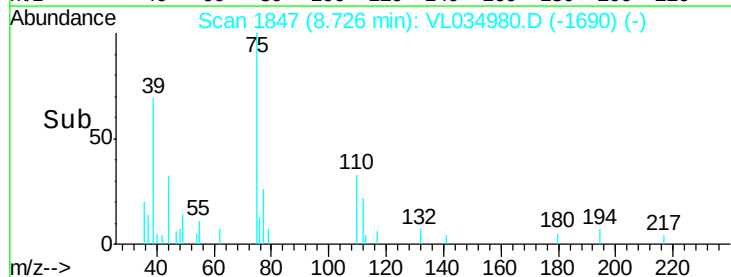
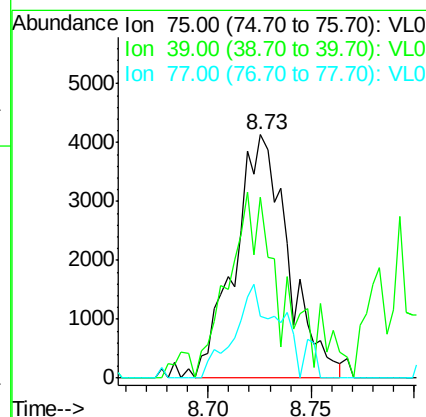
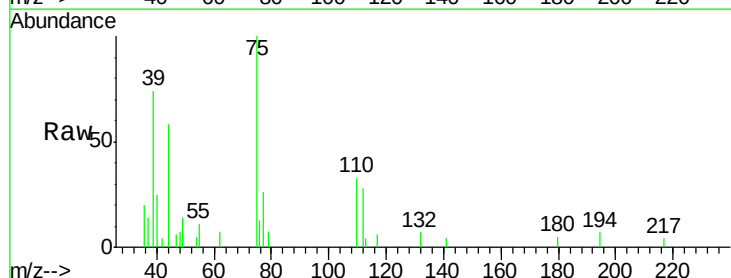
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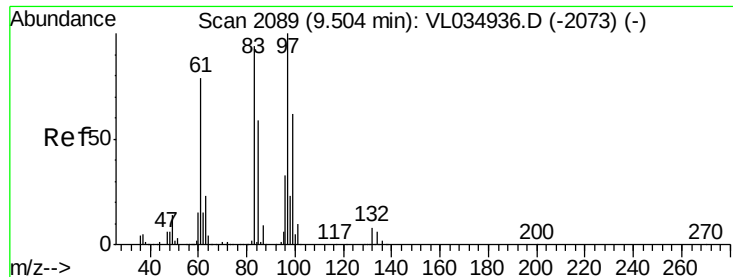
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 0.074 ppbv m
RT: 8.73 min Scan# 1847
Delta R.T. 0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion: 75 Resp: 7444
Ion Ratio Lower Upper
75 100
39 74.1 51.5 77.3
77 25.6 25.5 38.3





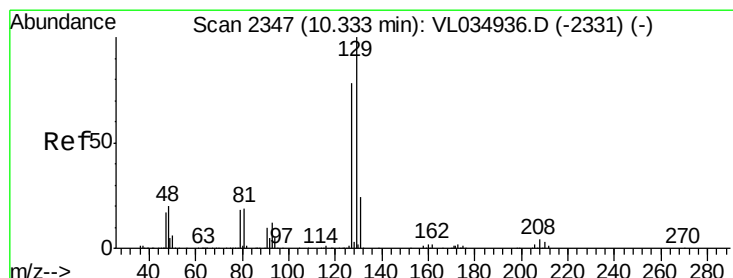
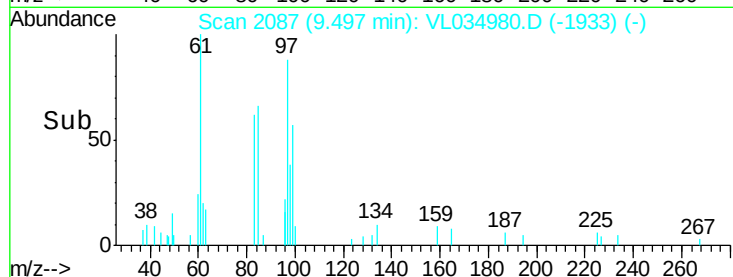
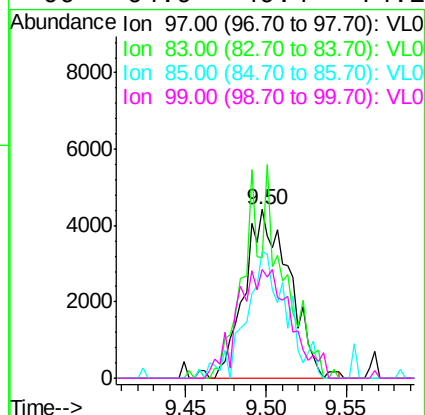
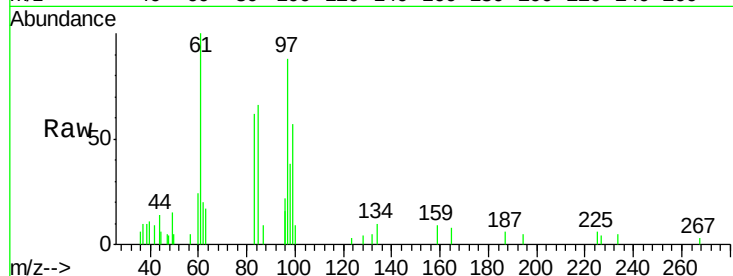
#47
 1,1,2-Trichloroethane
 Concen: 0.107 ppbv m
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.01 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		8672		
83	71.1	75.6	113.4#		
85	75.1	47.0	70.6#		
99	64.9	49.4	74.2		

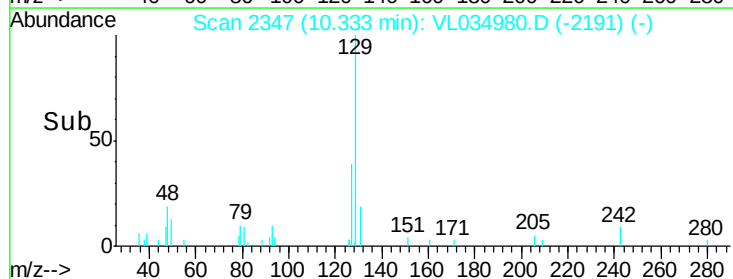
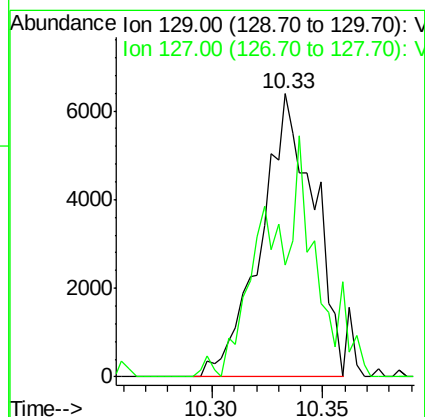
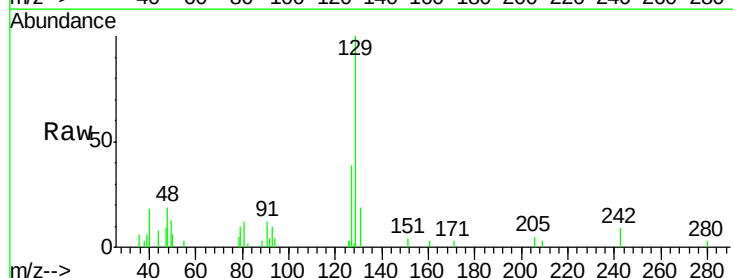
Manual Integrations
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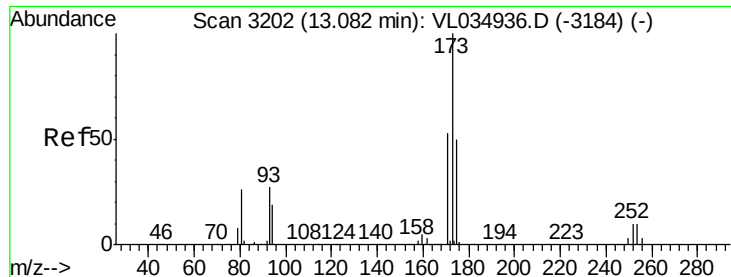
MMDadoda
 5/8/2020 5:22:53 PM



#48
 Dibromochloromethane
 Concen: 0.086 ppbv m
 RT: 10.33 min Scan# 2347
 Delta R.T. -0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		10627		
127	80.3	39.1	117.2		





#49

Bromoform

Concen: 0.077 ppbv m

RT: 13.08 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

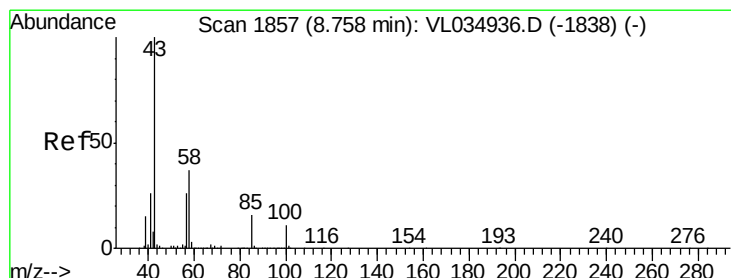
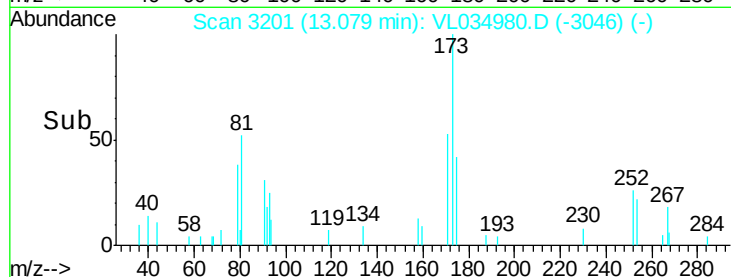
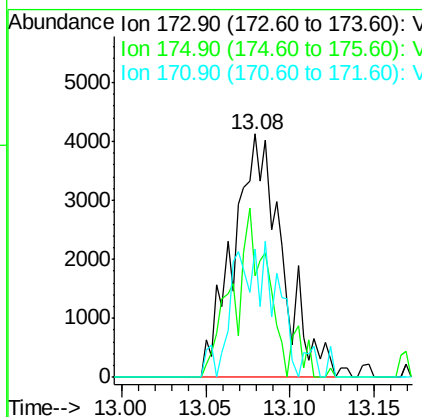
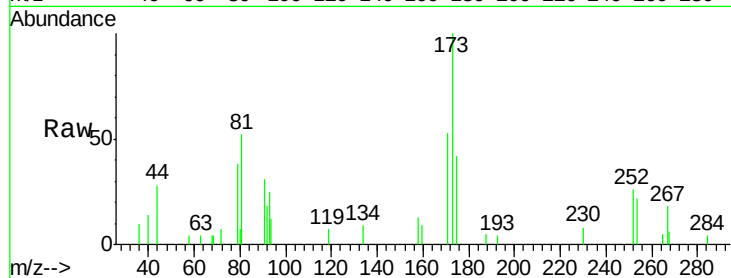
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	53.1	39.0	58.6
171	0.0	41.4	62.2

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.067 ppbv m

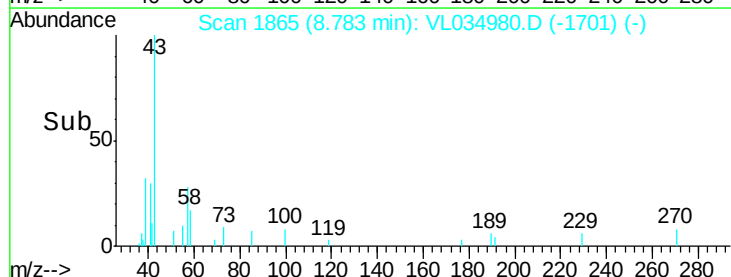
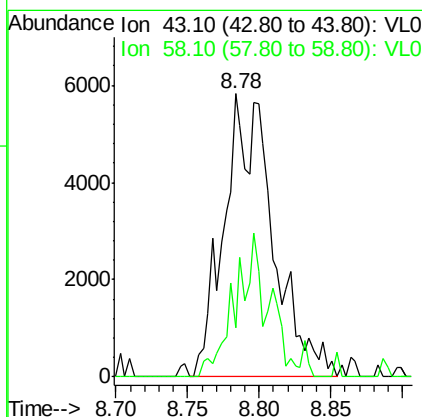
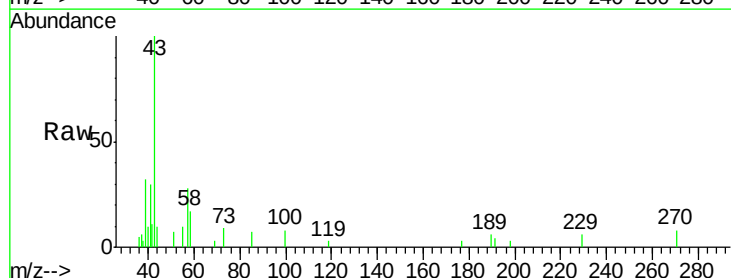
RT: 8.78 min Scan# 1865

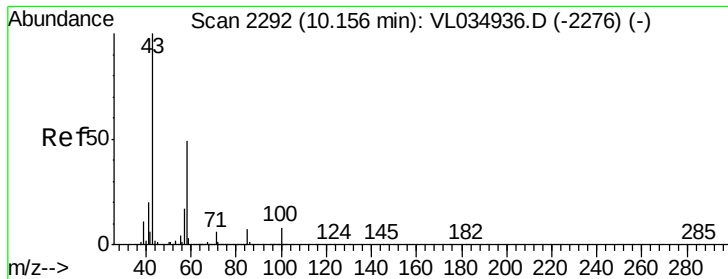
Delta R.T. 0.03 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7





#51

2-Hexanone

Concen: 0.056 ppbv m

RT: 10.20 min Scan# 2305

Delta R.T. 0.04 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

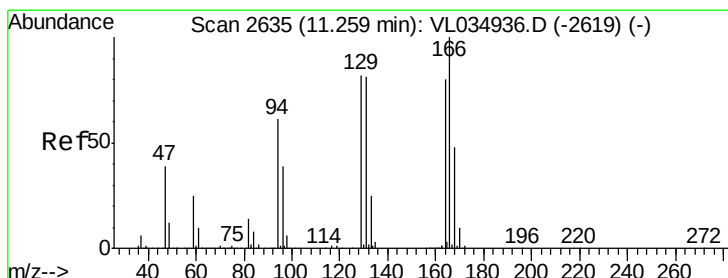
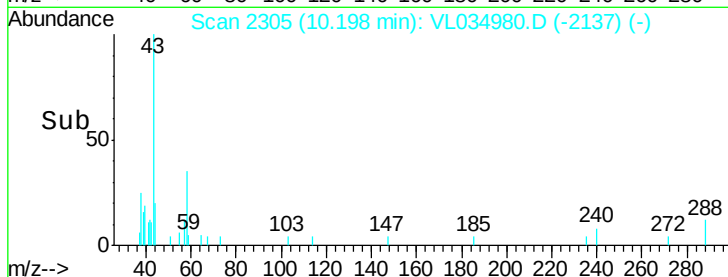
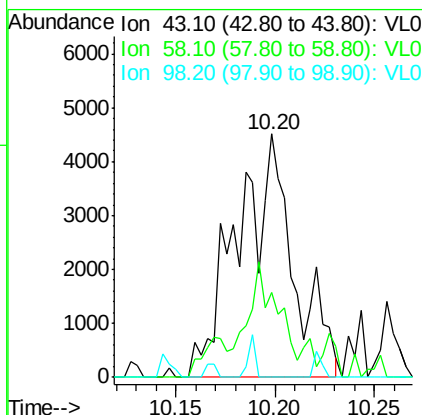
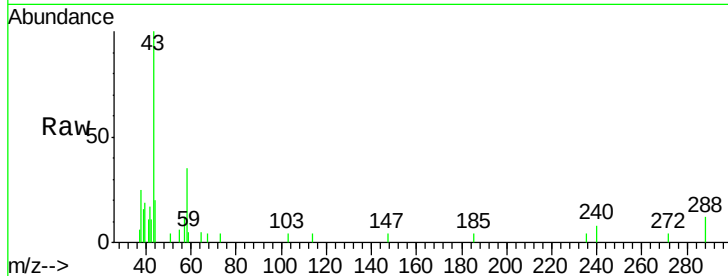
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	43	Resp:	8933
Ion Ratio	Lower	Upper	
43	100		
58	0.0	39.1	58.7#
98	0.0	0.3	0.5#

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#52

Tetrachloroethene

Concen: 0.111 ppbv m

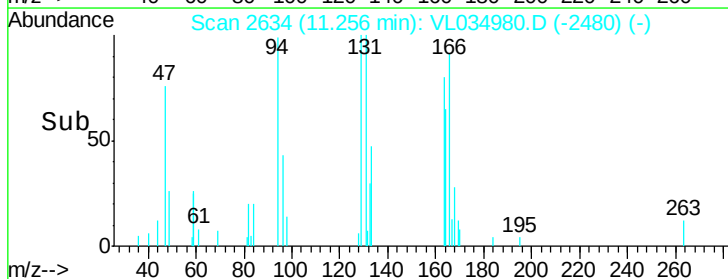
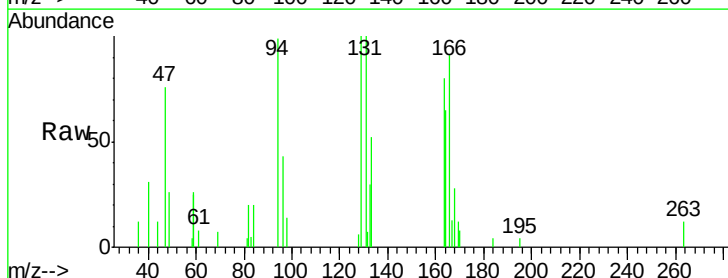
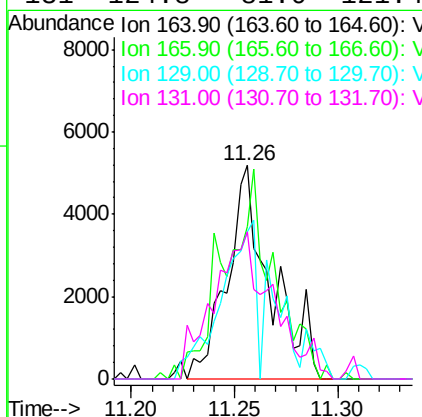
RT: 11.26 min Scan# 2634

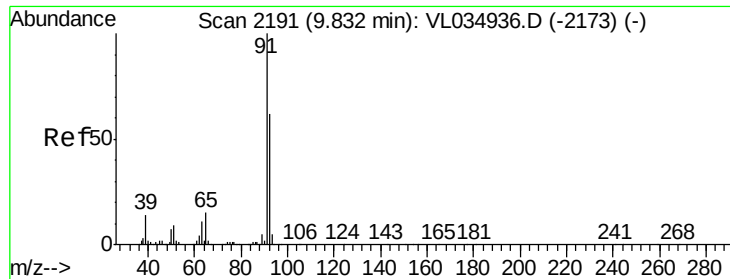
Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion:	164	Resp:	7551
Ion Ratio	Lower	Upper	
164	100		
166	113.6	100.7	151.1
129	124.5	83.0	124.4#
131	124.8	81.0	121.4#





#53

Toluene

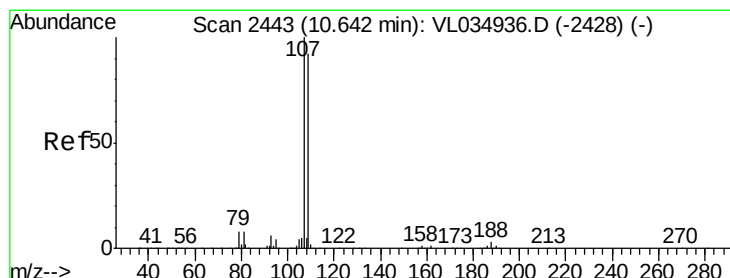
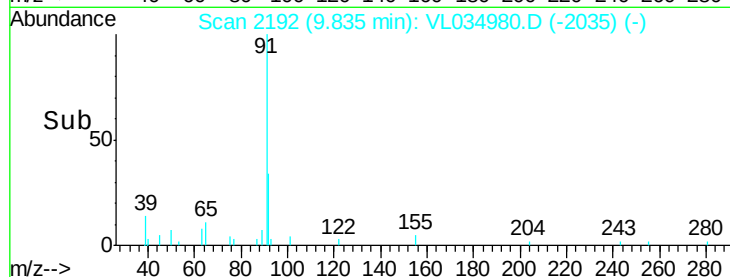
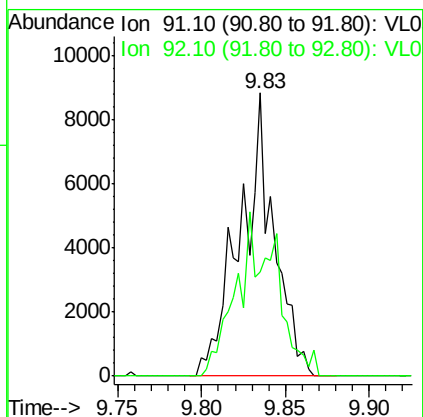
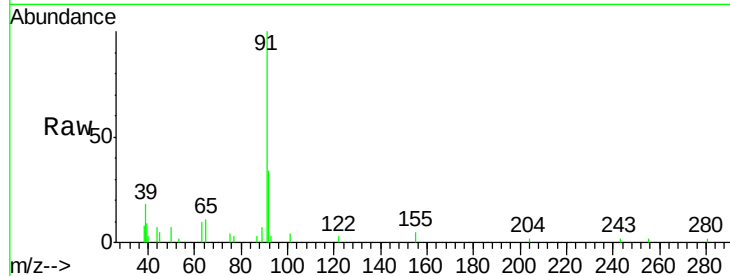
Concen: 0.062 ppbv m
RT: 9.83 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		12493		
92	67.3		48.6	73.0	

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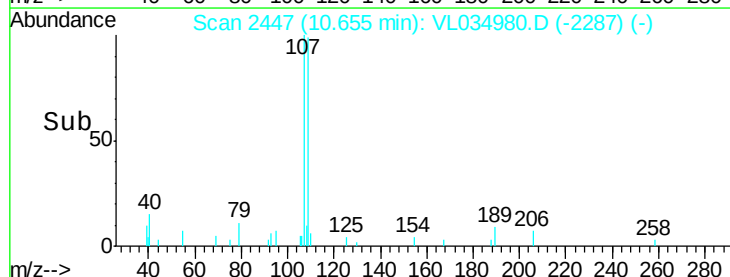
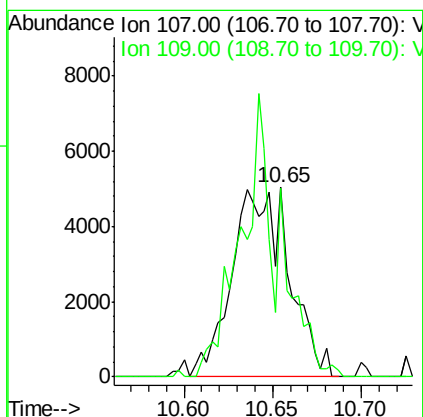
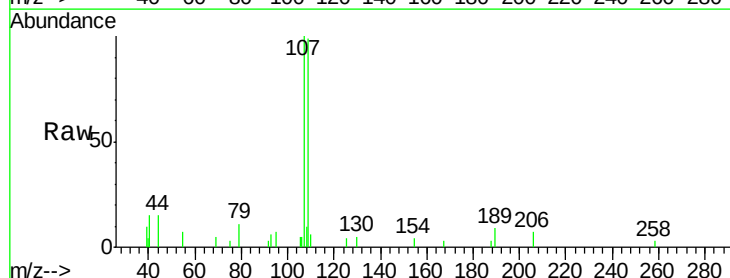


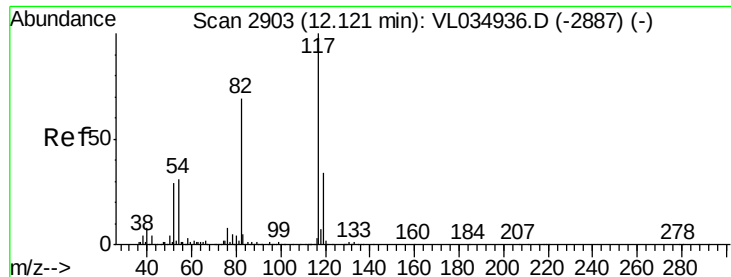
#54

1,2-Dibromoethane

Concen: 0.095 ppbv m
RT: 10.65 min Scan# 2447
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		11218		
109	99.4		73.2	109.8	





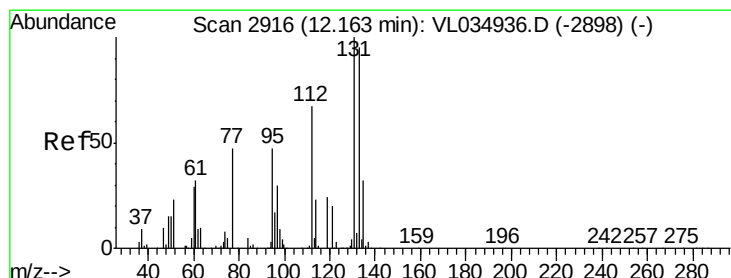
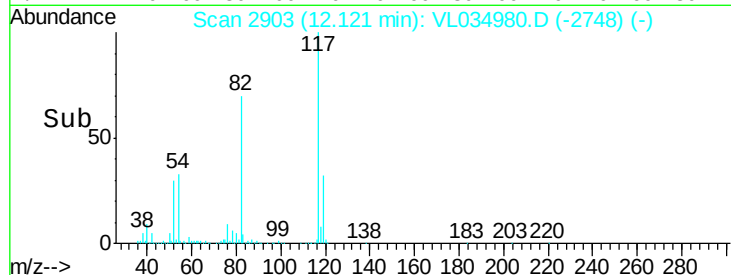
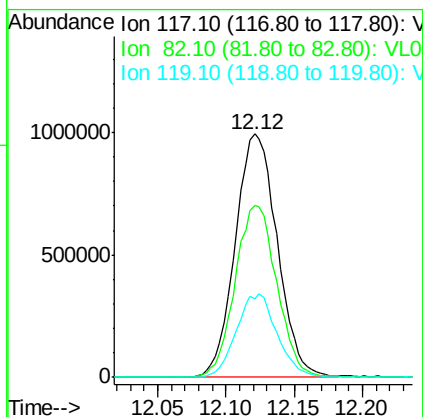
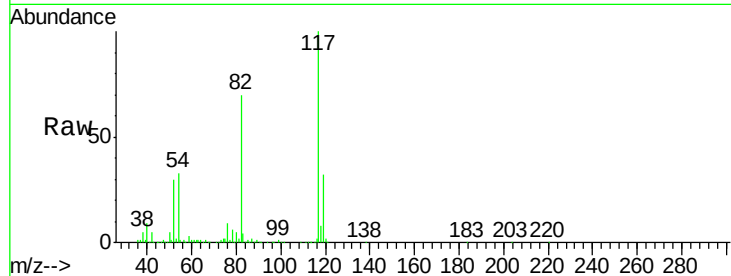
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.7	53.1	79.7
119	33.4	26.7	40.1

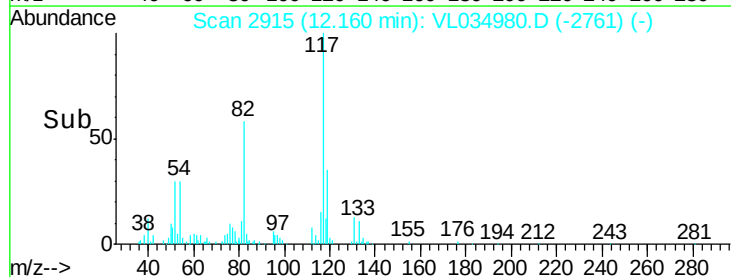
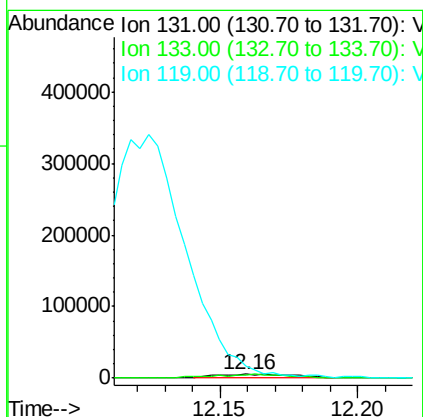
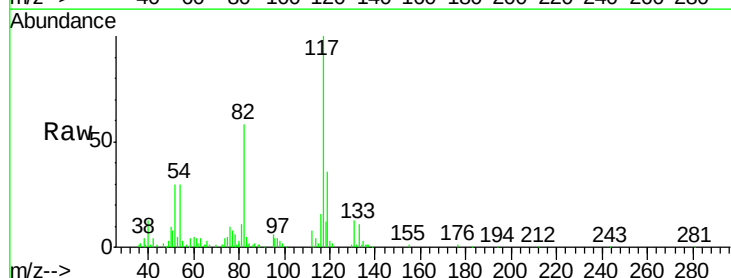
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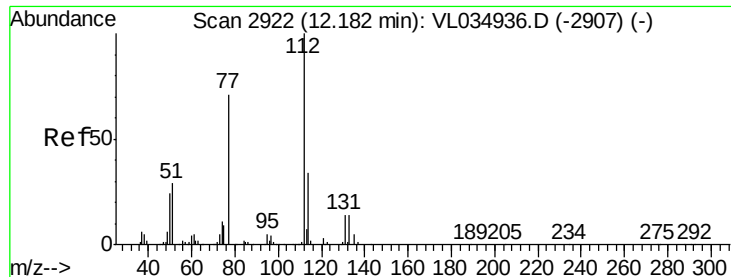
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.113 ppbv m
RT: 12.16 min Scan# 2915
Delta R.T. -0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
131	100		
133	101.4	77.7	116.5
119	0.0	49.8	74.6#





#57

Chlorobenzene

Concen: 0.126 ppbv m

RT: 12.19 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

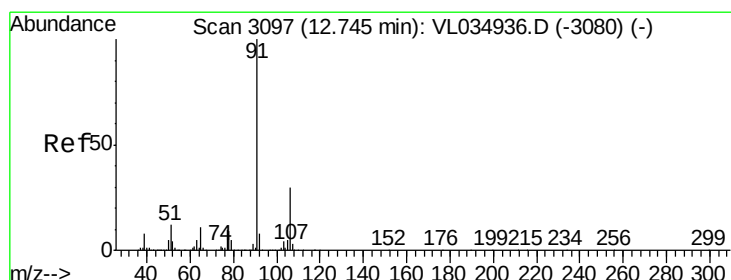
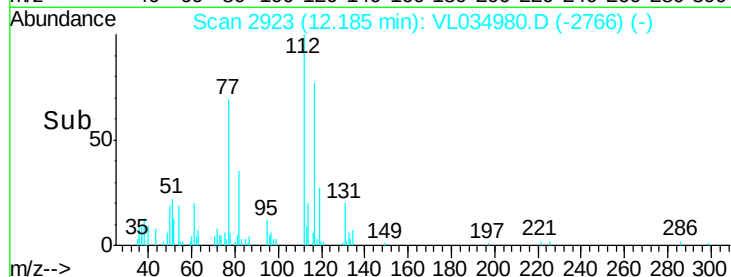
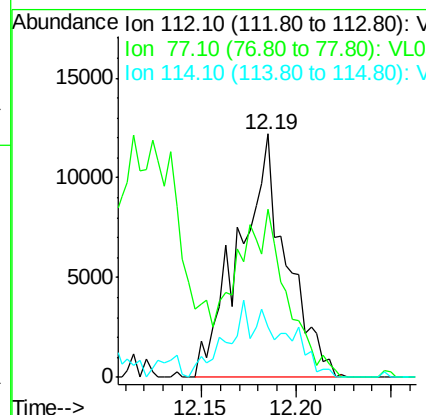
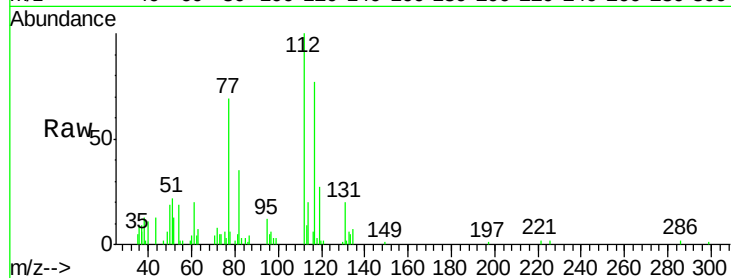
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
112	100		
77	68.9	57.0	85.6
114	20.5	30.8	37.6

Manual Integrations
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#58

Ethyl Benzene

Concen: 0.065 ppbv m

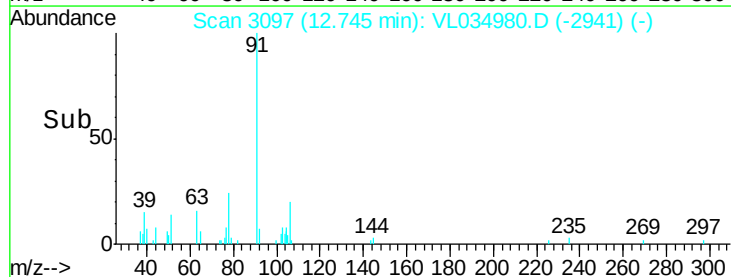
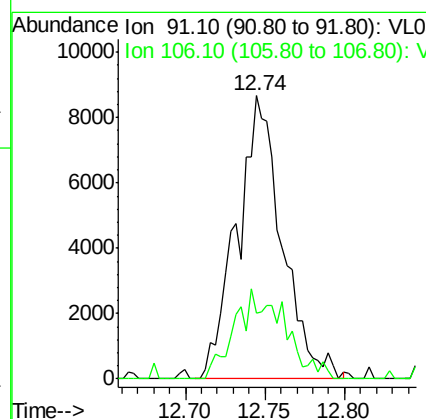
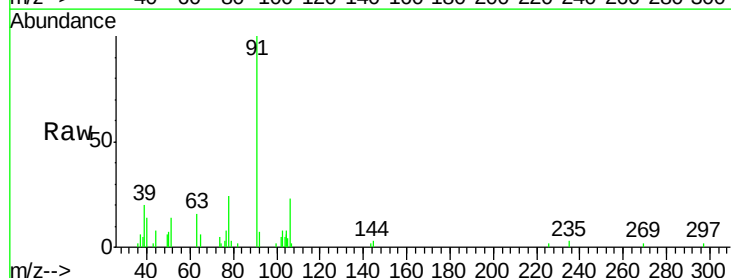
RT: 12.74 min Scan# 3097

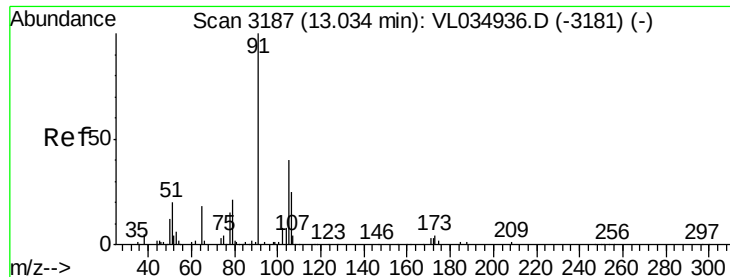
Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
91	100		
106	23.2	24.2	36.4





#59

m/p-Xylene

Concen: 0.120 ppbv m

RT: 12.99 min Scan# 3174

Delta R.T. -0.04 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 91 Resp: 27918

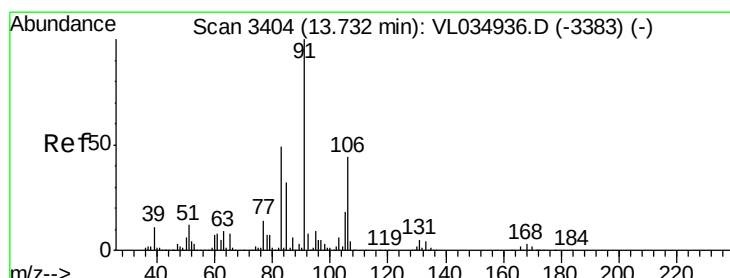
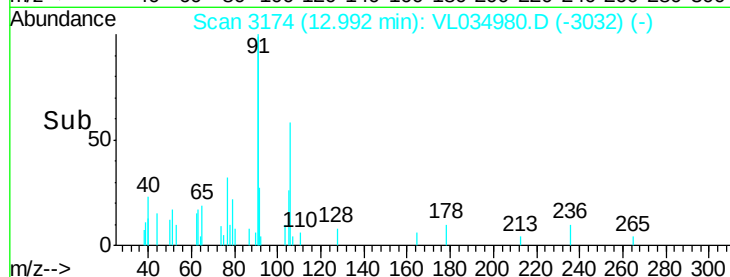
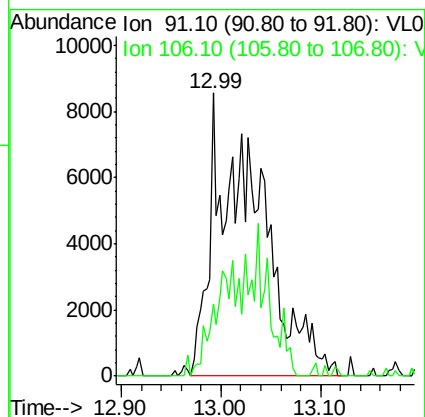
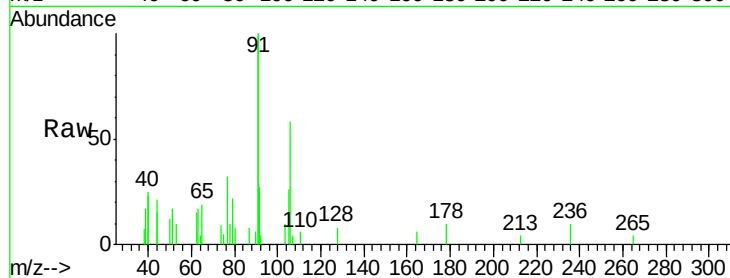
Ion Ratio Lower Upper

91 100

106 43.8 66.0 99.0#

Manual Integrations
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#60

o-Xylene

Concen: 0.062 ppbv m

RT: 13.73 min Scan# 3403

Delta R.T. -0.00 min

Lab File: VL034980.D

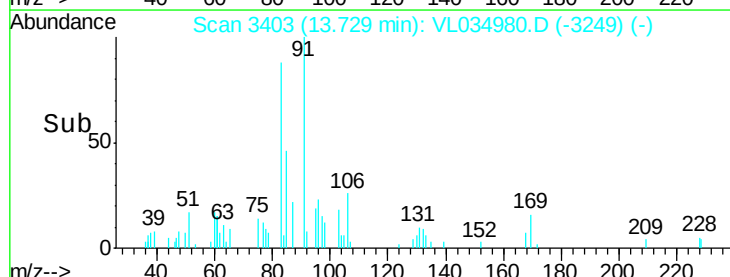
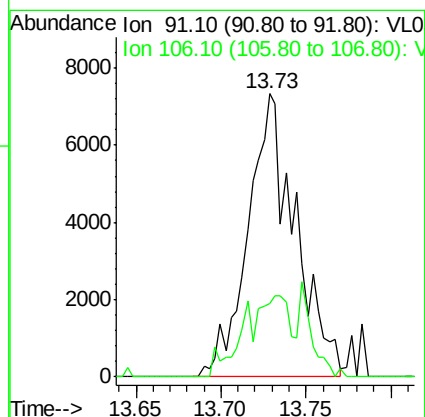
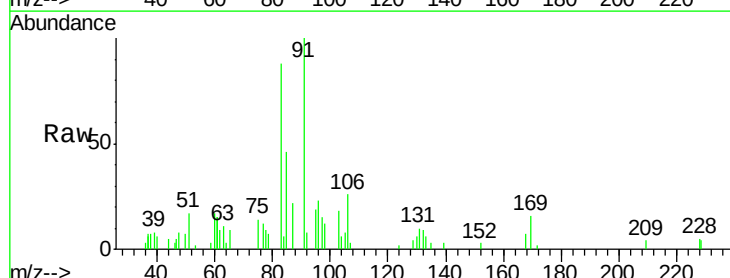
Acq: 7 May 2020 23:10

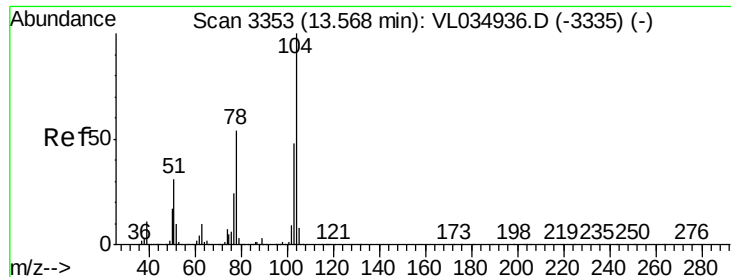
Tgt Ion: 91 Resp: 14189

Ion Ratio Lower Upper

91 100

106 0.0 21.9 65.5#





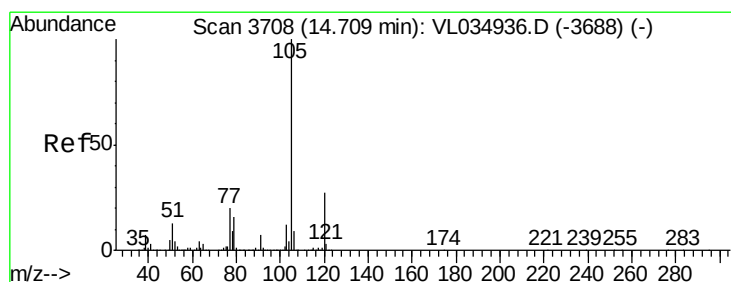
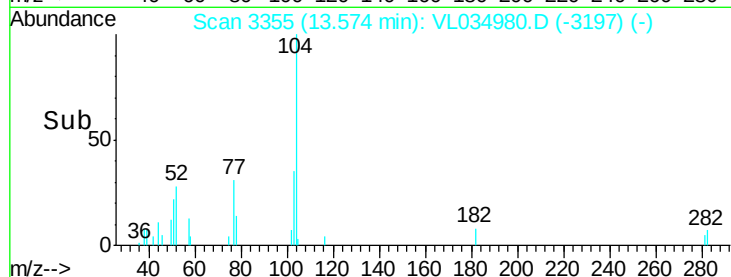
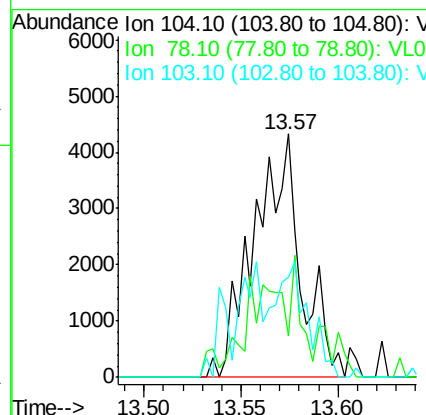
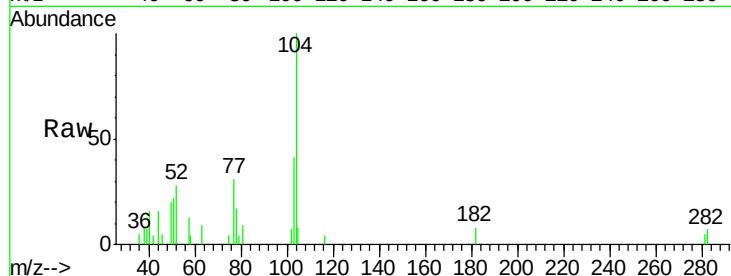
#61
Stvrene
Concen: 0.050 ppbv m
RT: 13.57 min Scan# 3355
Delta R.T. 0.01 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	43.7	65.5#
103	63.5	38.8	58.2#

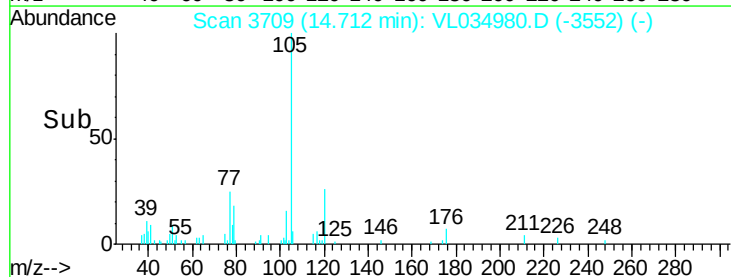
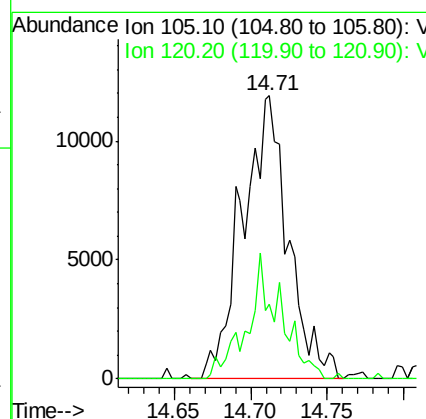
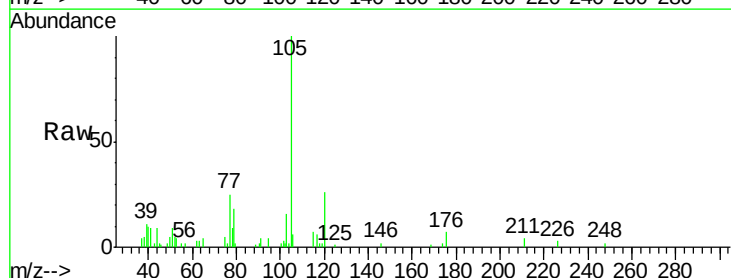
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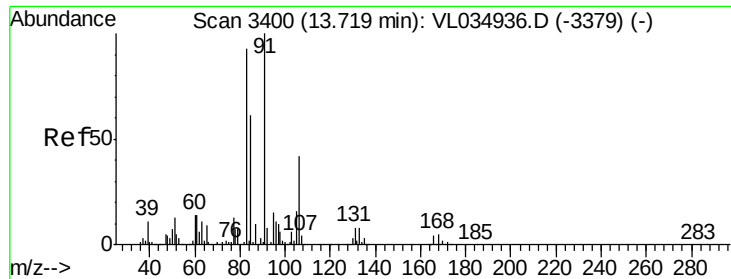
MMDadoda
5/8/2020 5:22:53 PM



#62
Isopropylbenzene
Concen: 0.073 ppbv m
RT: 14.71 min Scan# 3709
Delta R.T. 0.00 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.6	31.0#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.116 ppbv m

RT: 13.72 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

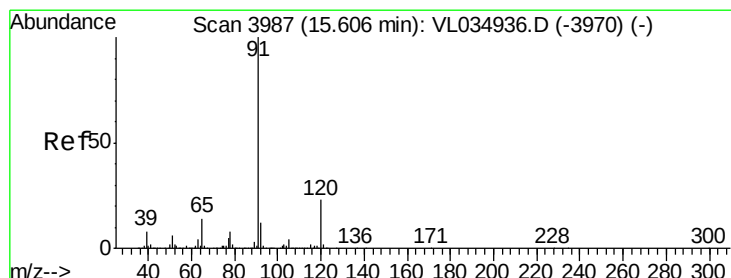
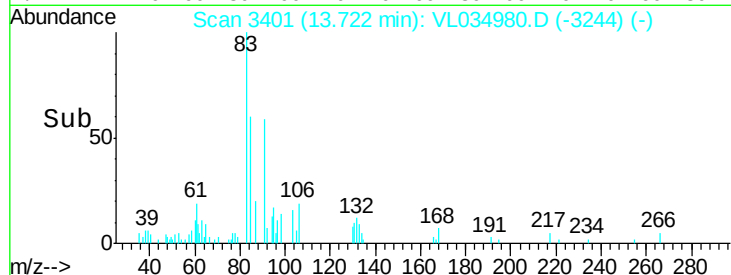
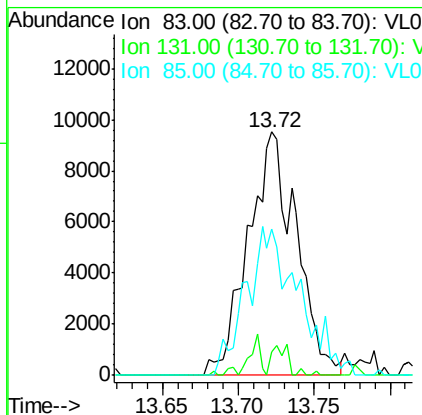
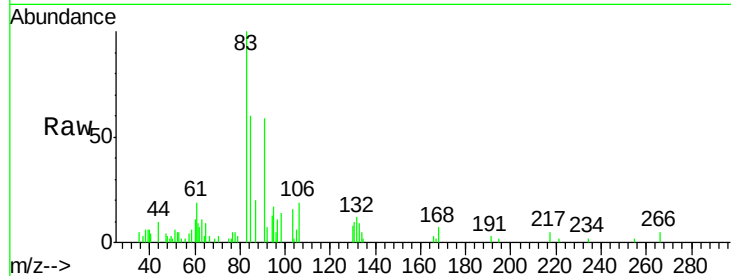
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	83	Resp:	20835
Ion Ratio	Lower	Upper	
83	100		
131	7.9	4.7	14.0
85	67.1	32.5	97.4

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#64

n-propylbenzene

Concen: 0.057 ppbv m

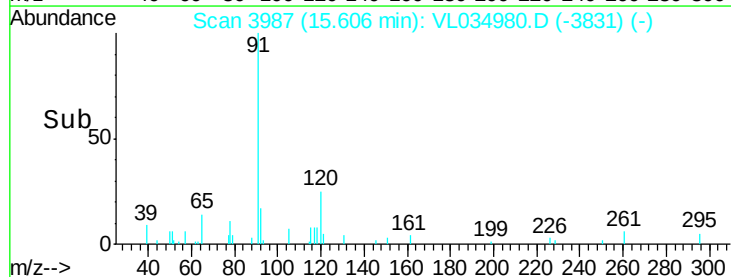
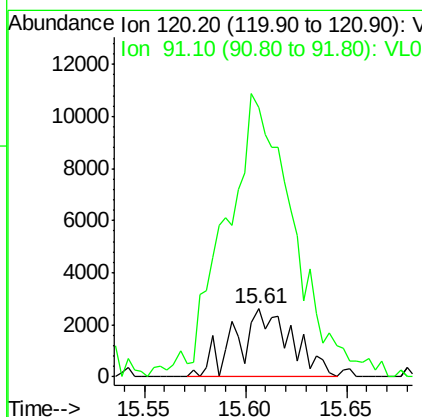
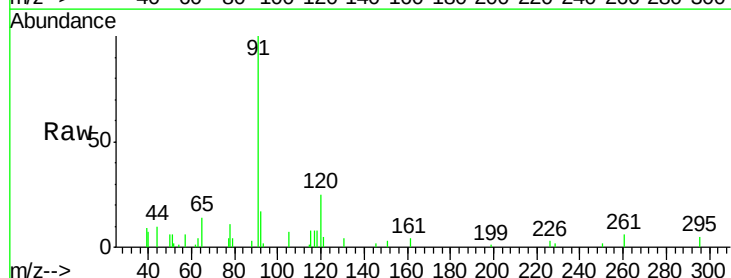
RT: 15.61 min Scan# 3987

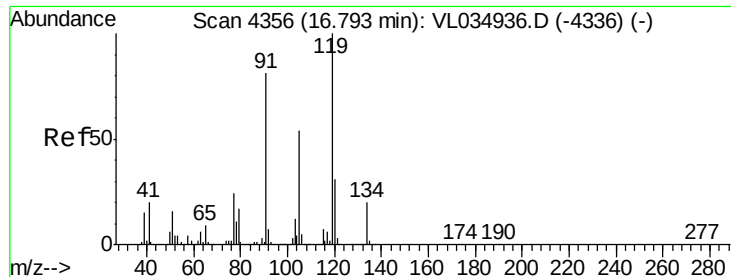
Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion:	120	Resp:	4982
Ion Ratio	Lower	Upper	
120	100		
91	515.5	373.5	560.3





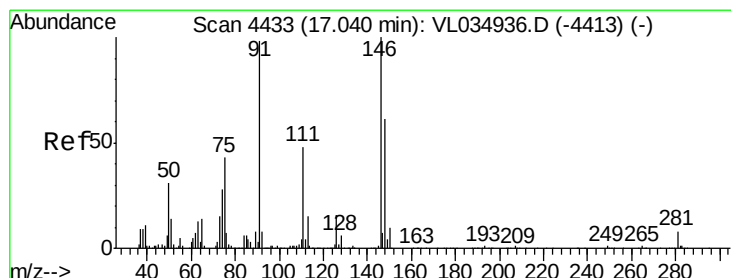
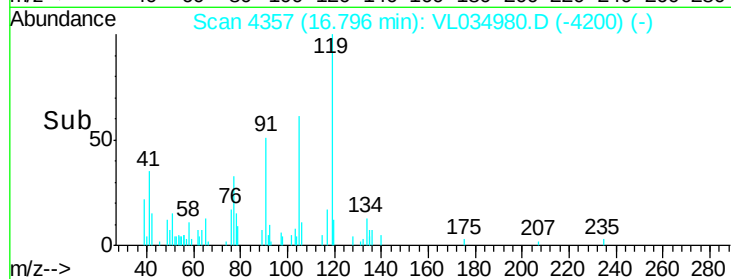
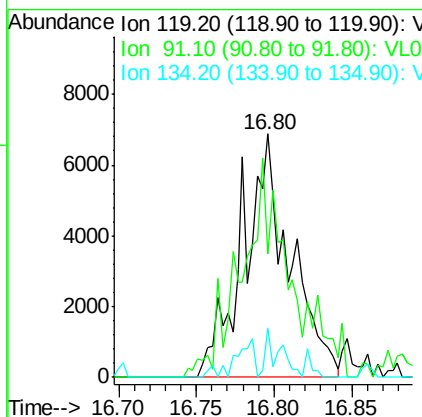
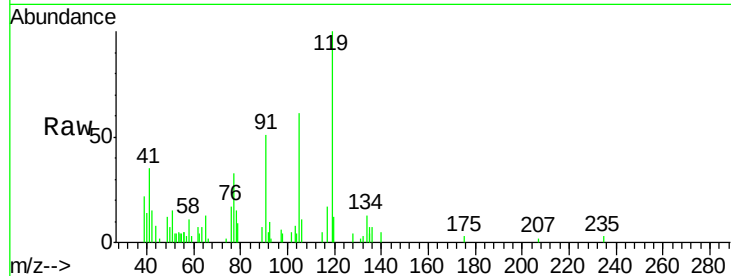
#65
 tert-Butylbenzene
 Concen: 0.049 ppbv m
 RT: 16.80 min Scan# 4357
 Delta R.T. 0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	93.5	67.5	101.3
134	6.6	16.1	24.1#

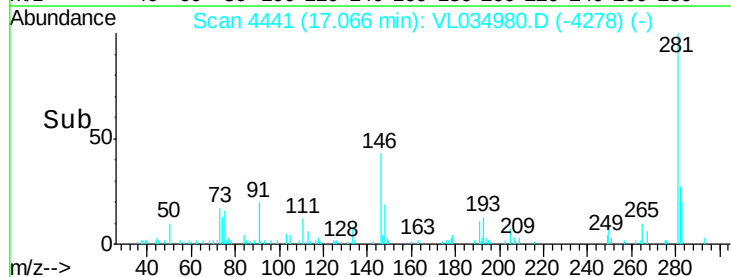
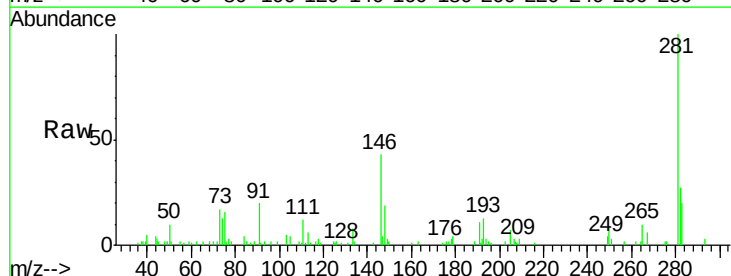
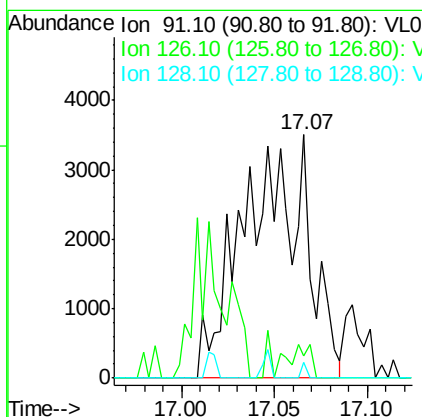
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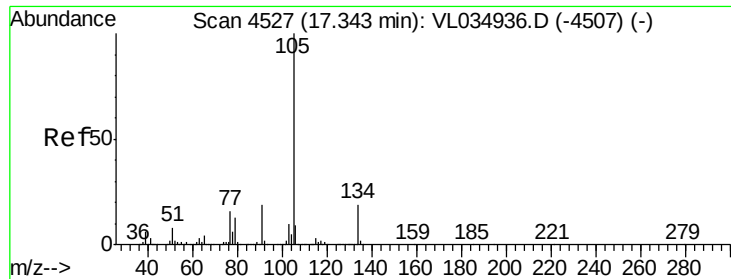
MMDadoda
 5/8/2020 5:22:53 PM



#66
 Benzyl Chloride
 Concen: 0.081 ppbv m
 RT: 17.07 min Scan# 4441
 Delta R.T. 0.03 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.8	20.6#
128	0.0	4.3	6.5#





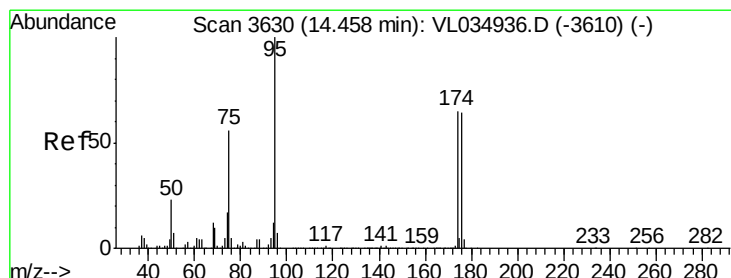
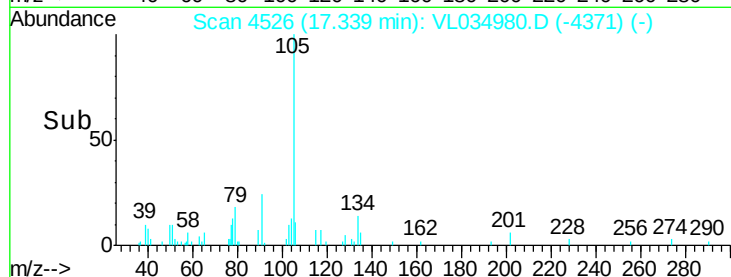
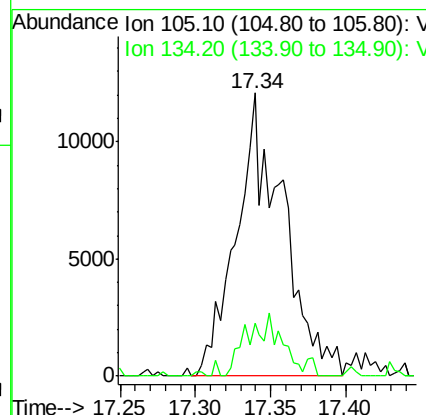
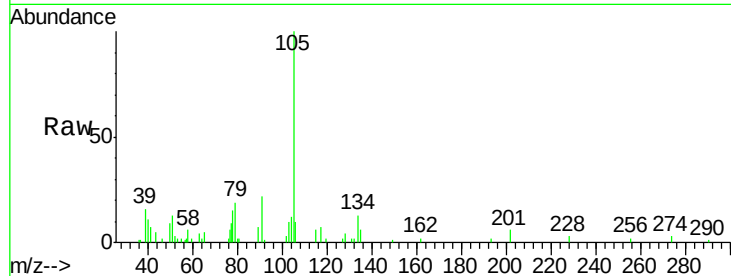
#67
 sec-Butylbenzene
 Concen: 0.061 ppbv m
 RT: 17.34 min Scan# 4526
 Delta R.T. -0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
105	100		
134	0.0	14.8	22.2#

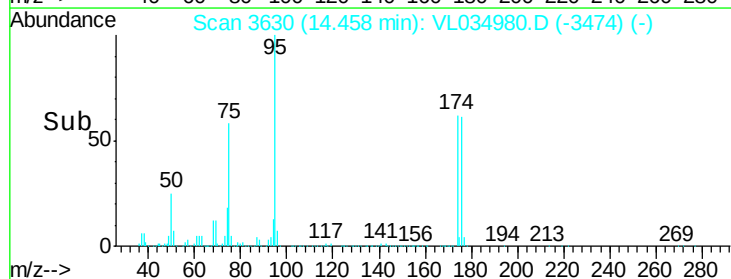
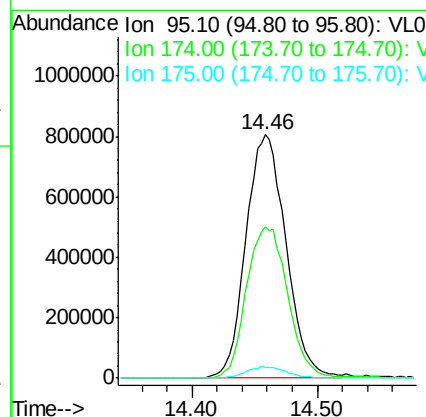
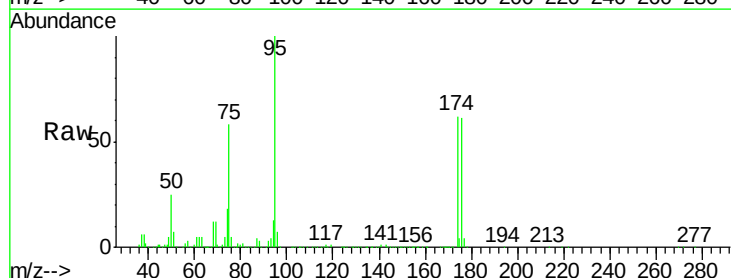
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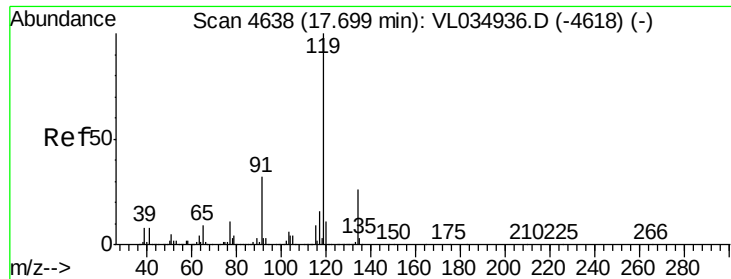
MMDadoda
 5/8/2020 5:22:53 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.374 ppbv
 RT: 14.46 min Scan# 3630
 Delta R.T. -0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.9	51.5	77.3
175	4.6	3.8	5.8





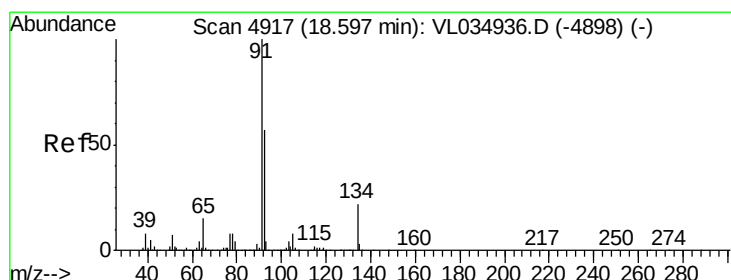
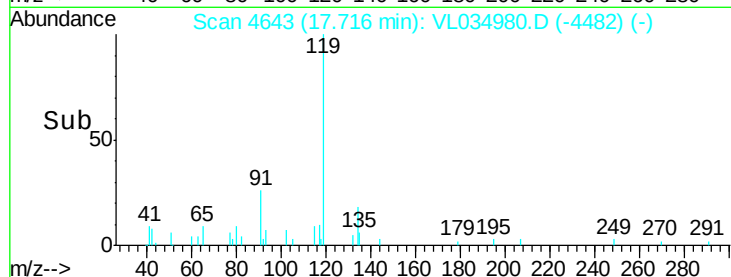
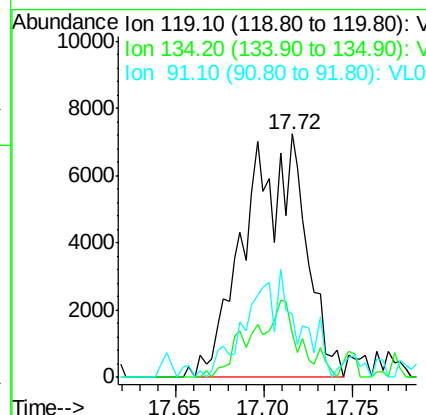
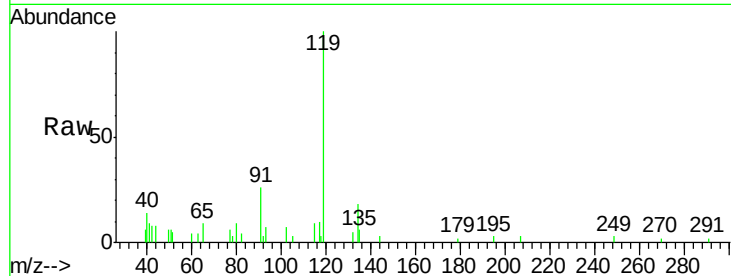
#69
 p-Isopropyltoluene
 Concen: 0.049 ppbv m
 RT: 17.72 min Scan# 4643
 Delta R.T. 0.02 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.3	30.5#
91	0.0	24.6	36.8#

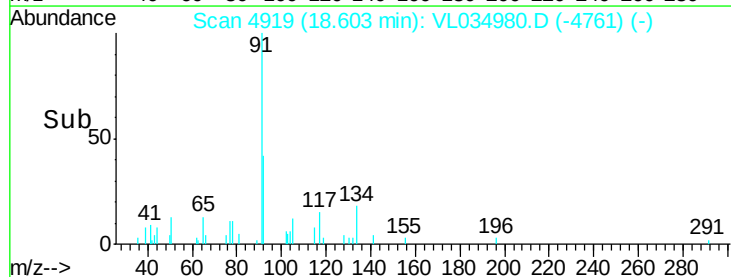
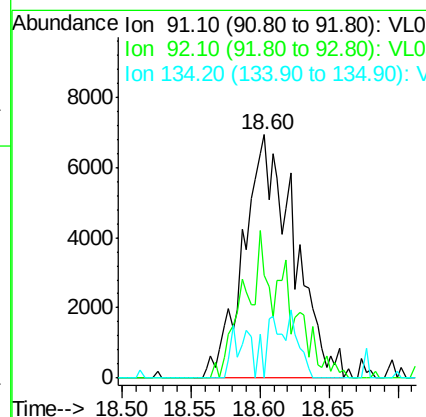
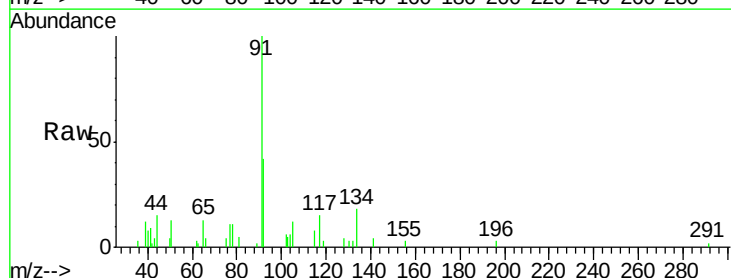
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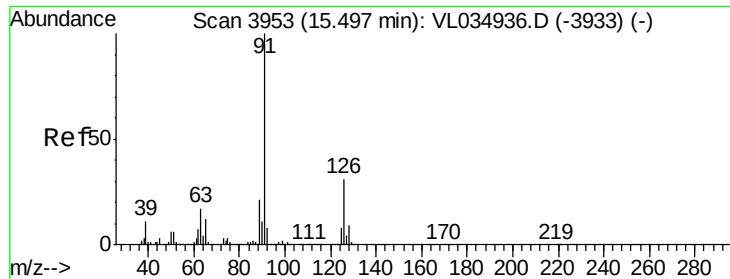
MMDadoda
 5/8/2020 5:22:53 PM



#70
 n-Butylbenzene
 Concen: 0.048 ppbv m
 RT: 18.60 min Scan# 4919
 Delta R.T. 0.01 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.2	44.4	66.6
134	0.0	18.0	27.0#





#71

2-Chlorotoluene

Concen: 0.064 ppbv m

RT: 15.50 min Scan# 3955

Delta R.T. 0.01 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 91 Resp: 16615

Ion Ratio Lower Upper

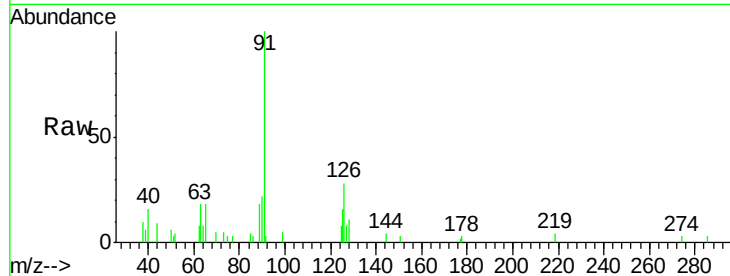
91 100

126 28.7 12.0 47.8

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

15.50

8000

6000

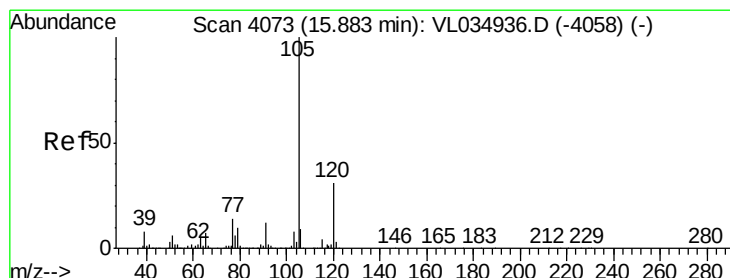
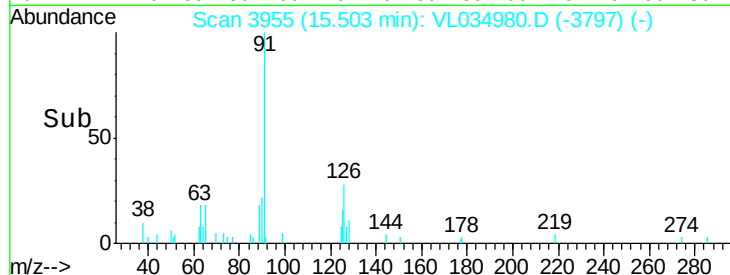
4000

2000

0

15.45 15.50 15.55

Time-->



#72

4-Ethyltoluene

Concen: 0.053 ppbv m

RT: 15.88 min Scan# 4073

Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion: 105 Resp: 13527

Ion Ratio Lower Upper

105 100

120 24.0 23.8 35.8

91 18.1 10.6 15.8#

77 15.1 11.6 17.4

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

10000

8000

6000

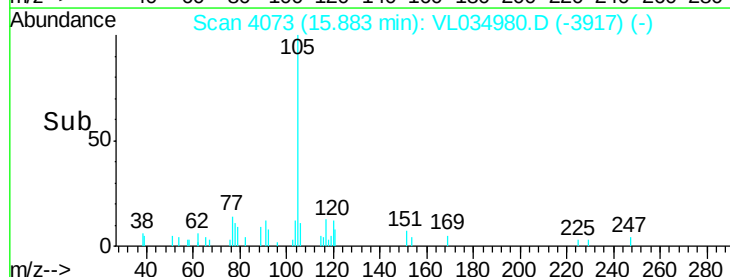
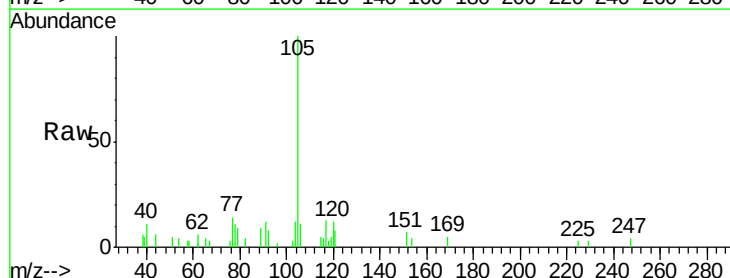
4000

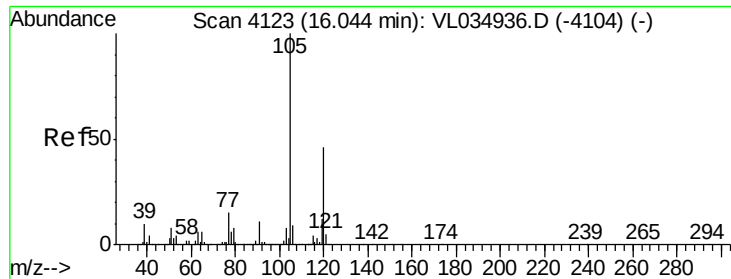
2000

0

15.80 15.85 15.90

Time-->





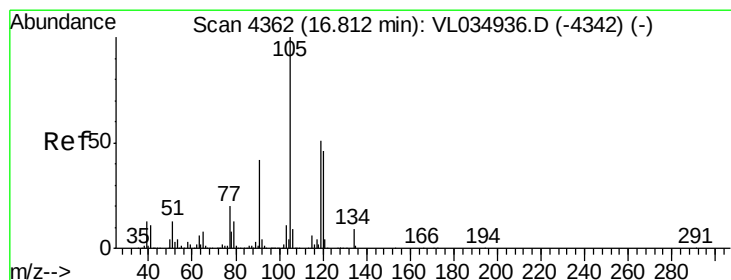
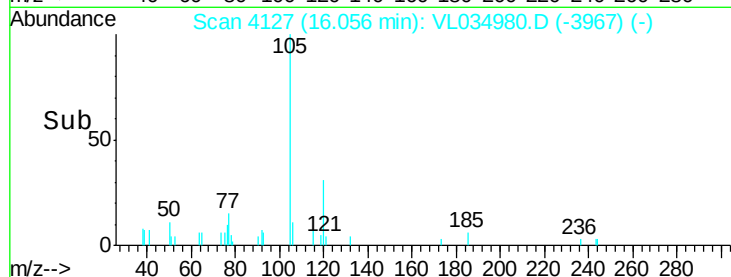
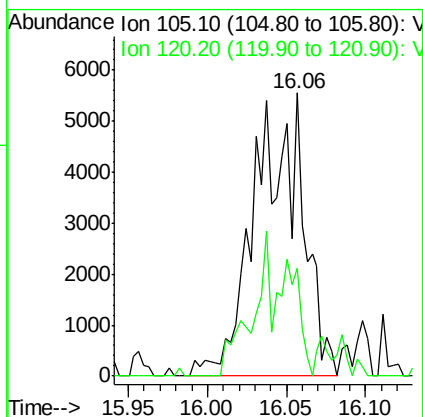
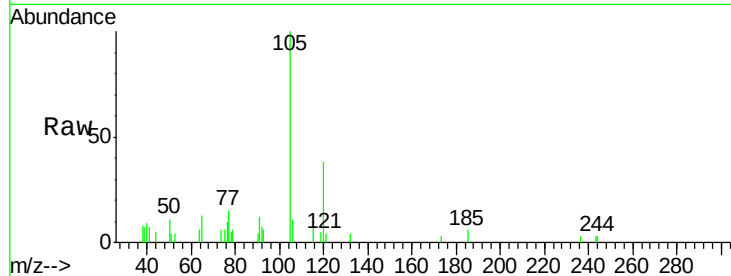
#73
 1,3,5-Trimethylbenzene
 Concen: 0.047 ppbv m
 RT: 16.06 min Scan# 4127
 Delta R.T. 0.01 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
105	100		
120	38.1	36.4	54.6

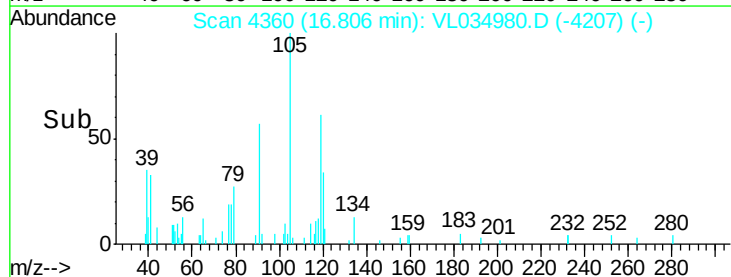
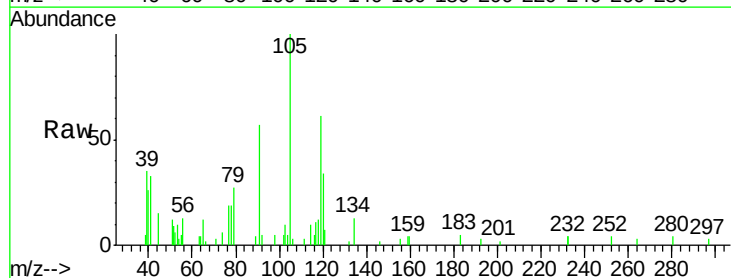
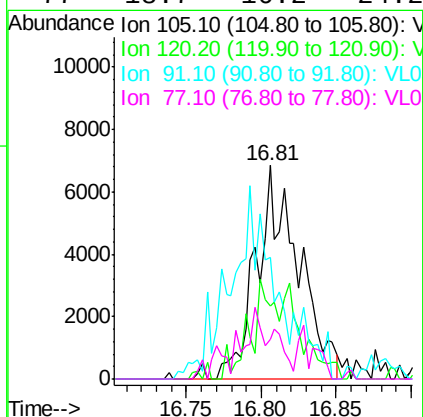
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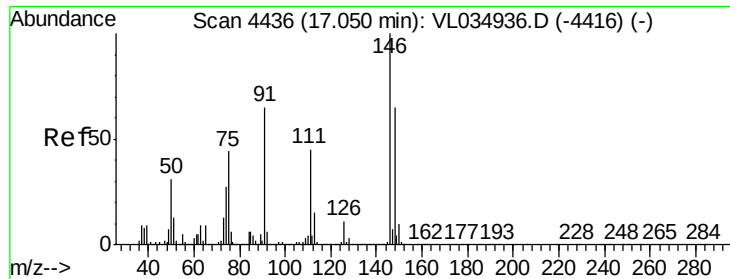
MMDadoda
 5/8/2020 5:22:53 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.050 ppbv m
 RT: 16.81 min Scan# 4360
 Delta R.T. -0.01 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	33.9	36.8	55.2#
91	56.8	35.4	53.0#
77	18.7	16.2	24.2





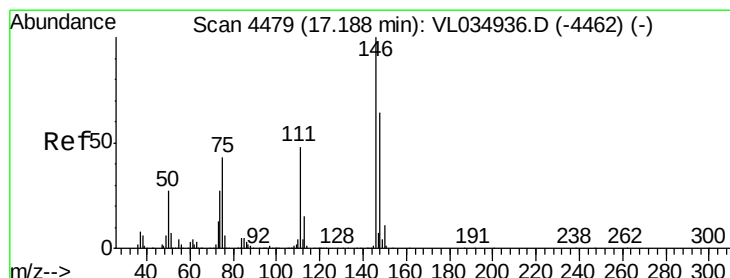
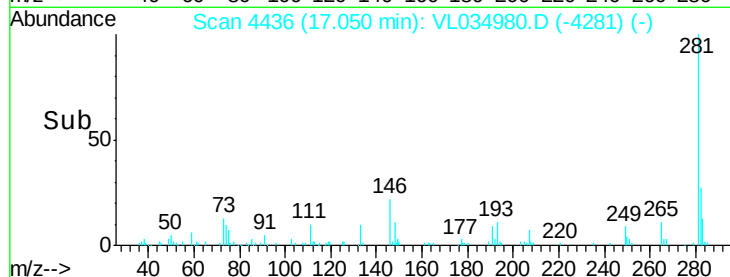
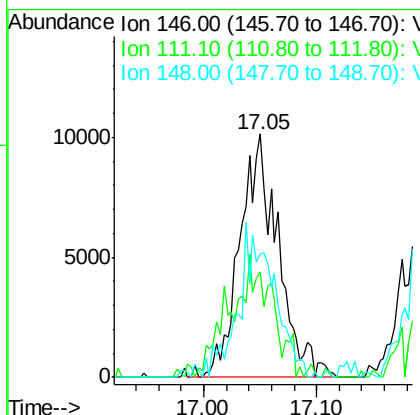
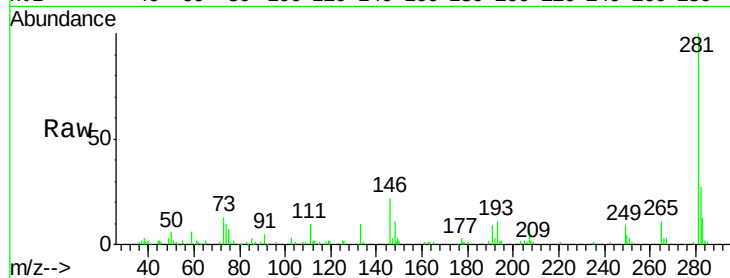
#75
 1,3-Dichlorobenzene
 Concen: 0.149 ppbv m
 RT: 17.05 min Scan# 4436
 Delta R.T. -0.00 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.0	72.0#
148	0.0	32.6	97.7#

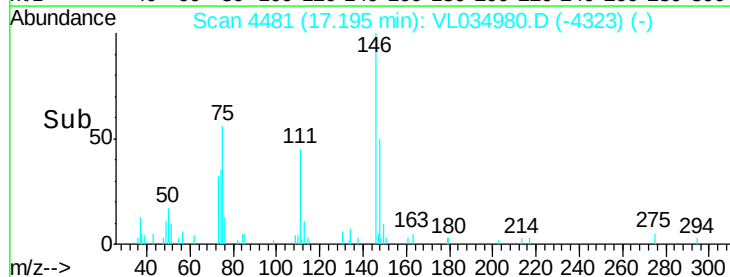
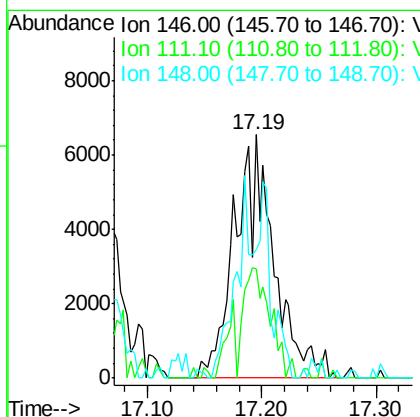
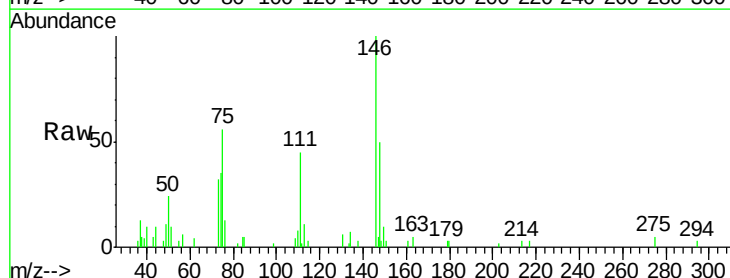
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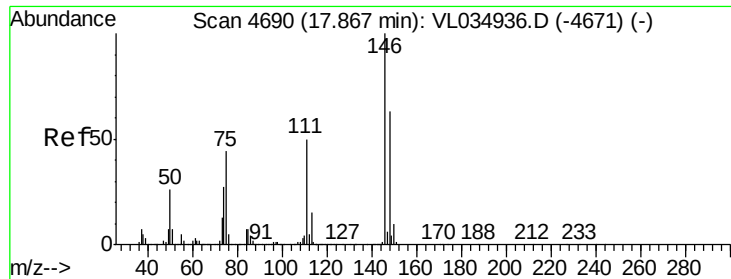
MMDadoda
 5/8/2020 5:22:53 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.104 ppbv m
 RT: 17.19 min Scan# 4481
 Delta R.T. 0.01 min
 Lab File: VL034980.D
 Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.7	71.1#
148	63.0	32.6	97.8





#77

1,2-Dichlorobenzene

Concen: 0.094 ppbv m

RT: 17.87 min Scan# 4690

Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Instrument :

MSVOA_L

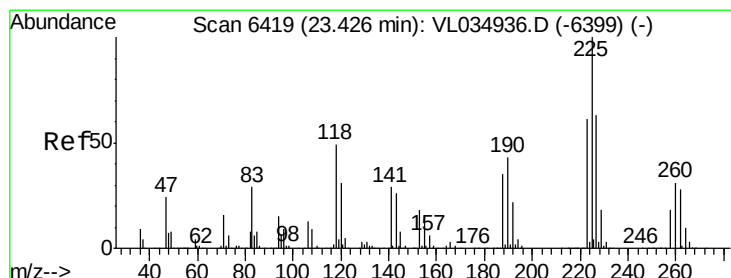
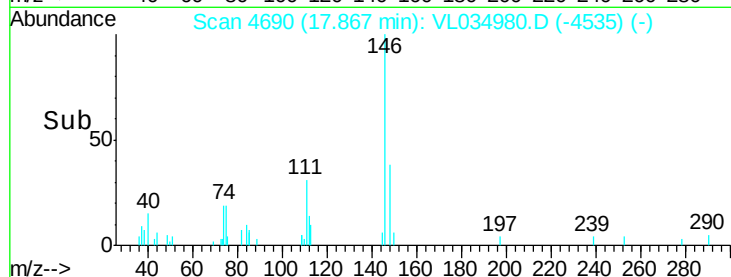
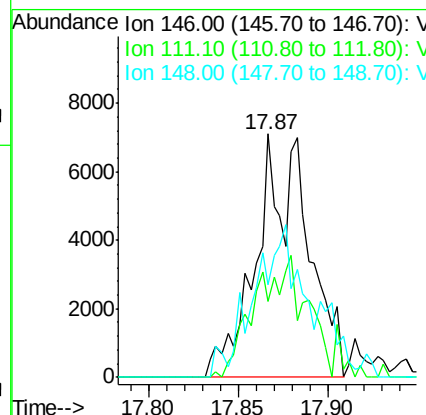
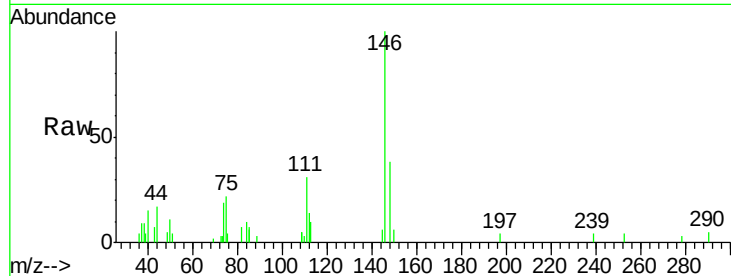
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	146	Resp:	14040
Ion Ratio	Lower	Upper	
146	100		
111	0.0	24.5	73.5#
148	0.0	31.7	95.1#

Manual Integrations
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MMDadoda
5/8/2020 5:22:53 PM



#78

Hexachloro-1,3-Butadiene

Concen: 0.139 ppbv m

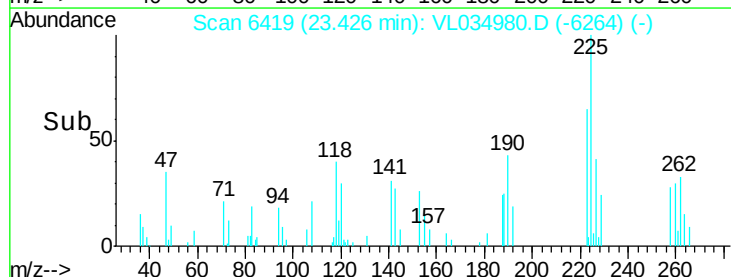
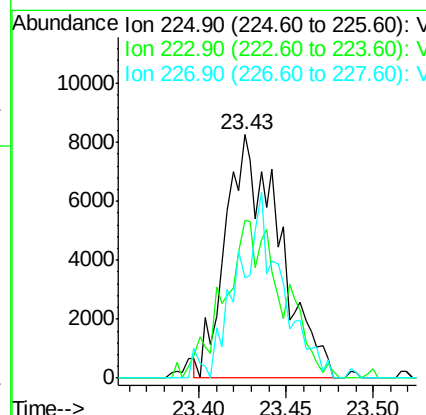
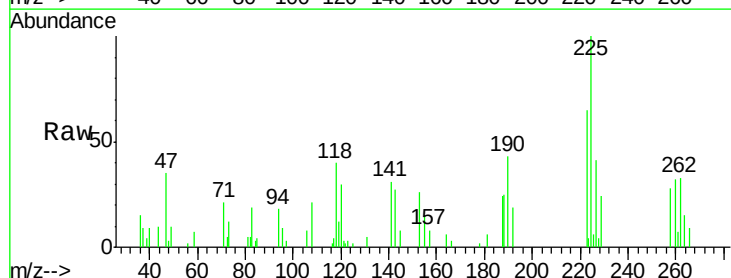
RT: 23.43 min Scan# 6419

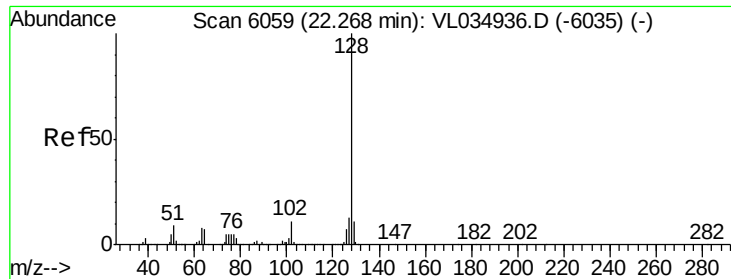
Delta R.T. -0.00 min

Lab File: VL034980.D

Acq: 7 May 2020 23:10

Tgt Ion:	225	Resp:	17713
Ion Ratio	Lower	Upper	
225	100		
223	70.9	49.8	74.8
227	0.0	51.8	77.6#





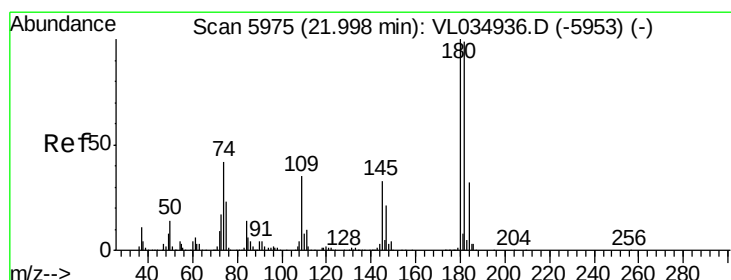
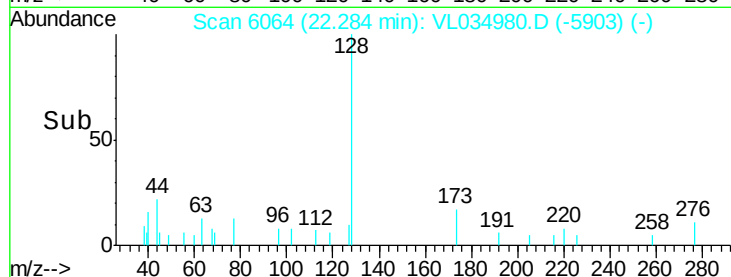
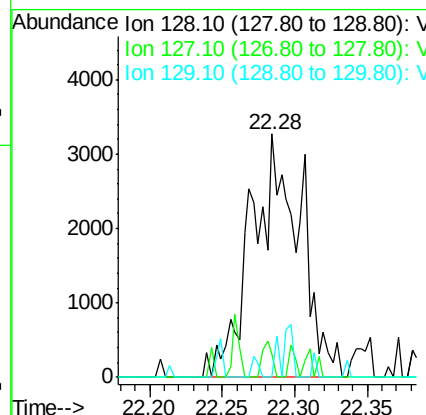
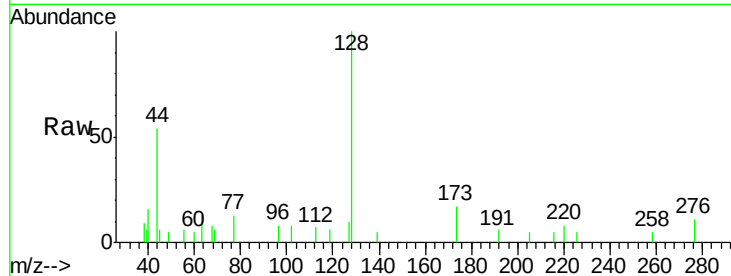
#79
Naphthalene
Concen: 0.036 ppbv m
RT: 22.28 min Scan# 6064
Delta R.T. 0.02 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	7640		
127	9.9	10.5	15.7#	
129	0.0	9.0	13.4#	

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#81
1,2,4-Trichlorobenzene
Concen: 0.049 ppbv m
RT: 22.01 min Scan# 5980
Delta R.T. 0.02 min
Lab File: VL034980.D
Acq: 7 May 2020 23:10

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	6226		
182	0.0	77.5	116.3#	
184	0.0	24.8	37.2#	

