

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034877.D
 Acq On : 10 Mar 2020 22:12
 Operator : SY/AP
 Sample : L1161-15 0.4 PPB MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
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 3/11/2020 3:17:46 PM

Quant Time: Mar 11 14:59:28 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	5.65	49	864186	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1938114	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1893219	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1564996	10.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	75389	0.637	ppbv	98
3) Chlorodifluoromethane	2.95	51	44697	0.463	ppbv	94
4) Chloromethane	3.10	50	24202	0.444	ppbv	89
5) Vinyl Chloride	3.22	62	22848m	0.436	ppbv	
6) Bromomethane	3.44	94	13096m	0.429	ppbv	
7) Chloroethane	3.53	64	8897m	0.470	ppbv	
8) Dichlorotetrafluoroethane	3.15	85	59812	0.487	ppbv	99
9) Propene	2.97	41	19137m	0.415	ppbv	
10) Heptane	8.13	43	39907	0.352	ppbv	90
11) Trichlorofluoromethane	3.92	101	59353	0.471	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	43783	0.497	ppbv	94
13) Ethanol	3.58	45	6094m	0.435	ppbv	
14) Bromoethene	3.71	108	16167	0.425	ppbv	91
15) Acetone	3.83	43	56000	0.500	ppbv	96
16) 1,3-Butadiene	3.29	39	21227	0.419	ppbv	96
17) tert-Butyl alcohol	4.29	59	49967m	0.463	ppbv	
18) 1,1-Dichloroethene	4.26	96	17716	0.454	ppbv	93
19) Isopropyl Alcohol	3.95	45	33926	0.480	ppbv #	44
20) Methylene Chloride	4.32	84	20027	0.566	ppbv	85
21) Allyl Chloride	4.39	41	28529m	0.397	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	18059m	0.456	ppbv	
23) Vinyl Acetate	5.06	43	57852	0.350	ppbv #	93
24) 1,1-Dichloroethane	4.99	63	51578m	0.465	ppbv	
25) Ethyl Acetate	5.67	43	84942	0.426	ppbv	98
26) Hexane	5.68	57	33384	0.389	ppbv	84
27) Carbon Disulfide	4.53	76	25733m	0.264	ppbv	
28) Methyl tert-Butyl Ether	5.03	73	53408	0.374	ppbv	100
29) Chloroform	5.74	83	59283	0.452	ppbv	98
30) Cyclohexane	7.13	84	26083m	0.364	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	31728	0.361	ppbv #	82
32) 1,1,1-Trichloroethane	6.50	97	52667	0.412	ppbv	96
34) 2-Butanone	5.24	43	50989	0.396	ppbv	96
35) Carbon Tetrachloride	7.02	117	49209	0.408	ppbv	92
36) Benzene	6.90	78	66639	0.386	ppbv #	92
37) 1,2-Dichloroethane	6.30	62	45532	0.467	ppbv	97
38) Trichloroethene	7.84	130	24120m	0.368	ppbv	
39) 1,2-Dichloropropane	7.62	63	28193m	0.412	ppbv	
40) 1,4-Dioxane	7.88	88	11945m	0.462	ppbv	
41) Tetrahydrofuran	6.07	42	24736m	0.355	ppbv	
42) Bromodichloromethane	7.80	83	47680m	0.359	ppbv	
43) Methyl Methacrylate	8.03	69	23704	0.326	ppbv	96

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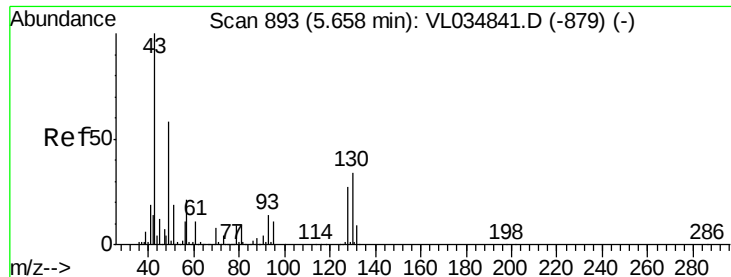
Manual Integrations
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	111307	0.381	ppbv	94
45) t-1,3-Dichloropropene	9.29	75	20460	0.239	ppbv #	74
46) cis-1,3-Dichloropropene	8.72	75	27785m	0.273	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	30862	0.439	ppbv	93
48) Dibromochloromethane	10.32	129	34104m	0.300	ppbv	
49) Bromoform	13.07	173	24806m	0.245	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	68376m	0.369	ppbv	
51) 2-Hexanone	10.17	43	46833m	0.311	ppbv	
52) Tetrachloroethene	11.24	164	25699m	0.376	ppbv	
53) Toluene	9.83	91	63590	0.319	ppbv	96
54) 1,2-Dibromoethane	10.63	107	40542m	0.383	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	33283m	0.391	ppbv	
57) Chlorobenzene	12.18	112	69578m	0.470	ppbv	
58) Ethyl Benzene	12.74	91	88248	0.344	ppbv	89
59) m/p-Xylene	13.02	91	157410m	0.733	ppbv	
60) o-Xylene	13.72	91	79210m	0.378	ppbv	
61) Styrene	13.56	104	43271m	0.294	ppbv	
62) Isopropylbenzene	14.70	105	128680m	0.406	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.70	83	67500m	0.474	ppbv	
64) n-propylbenzene	15.59	120	28106	0.341	ppbv #	64
65) tert-Butylbenzene	16.78	119	87289	0.315	ppbv #	83
66) Benzyl Chloride	17.03	91	27078m	0.234	ppbv	
67) sec-Butylbenzene	17.33	105	136692m	0.356	ppbv	
69) p-Isopropyltoluene	17.70	119	97770	0.303	ppbv	95
70) n-Butylbenzene	18.59	91	107614	0.327	ppbv	96
71) 2-Chlorotoluene	15.49	91	84013m	0.350	ppbv	
72) 4-Ethyltoluene	15.87	105	81026	0.327	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.03	105	77778m	0.335	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	86527m	0.362	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	66261m	0.460	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	57097m	0.397	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	56698m	0.406	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	37135m	0.318	ppbv	
79) Naphthalene	22.27	128	34356m	0.184	ppbv	
81) 1,2,4-Trichlorobenzene	21.99	180	30156m	0.255	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL034877.D

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Instrument :

MSVOA_L

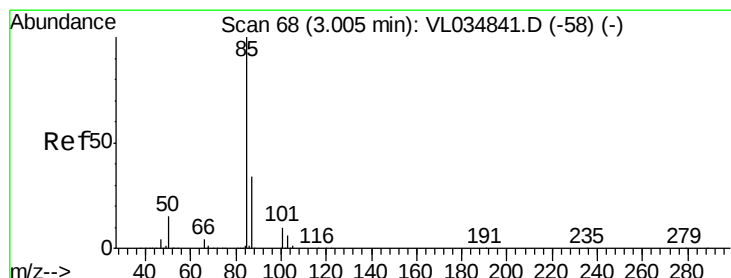
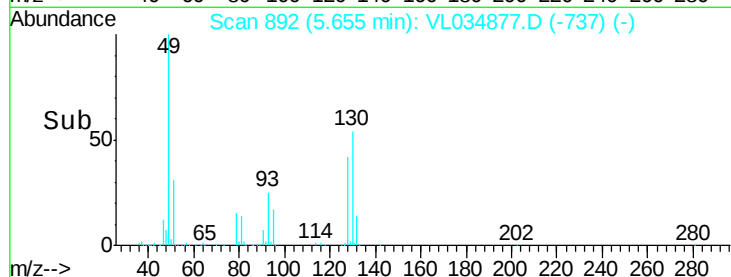
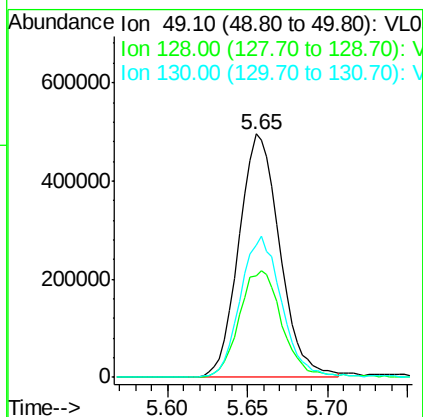
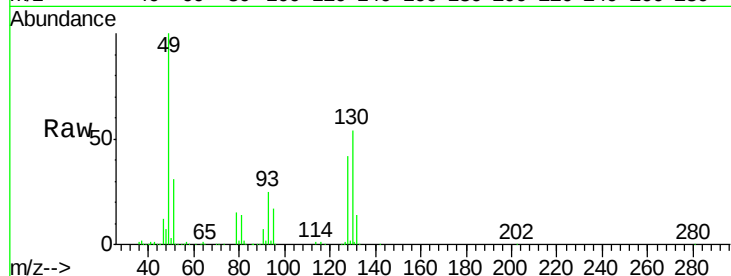
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	49	Resp:	864186
Ion	Ratio	Lower	Upper
49	100		
128	46.5	23.4	70.3
130	59.0	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 0.637 ppbv

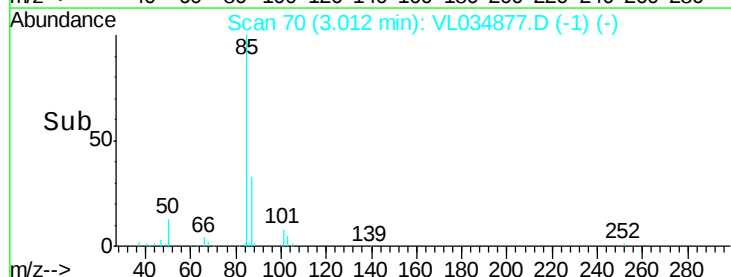
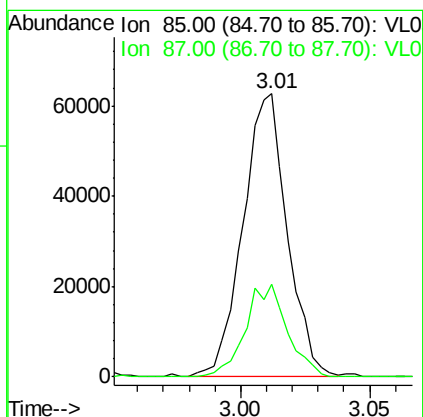
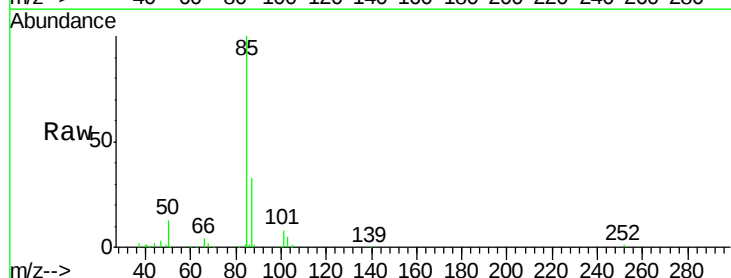
RT: 3.01 min Scan# 70

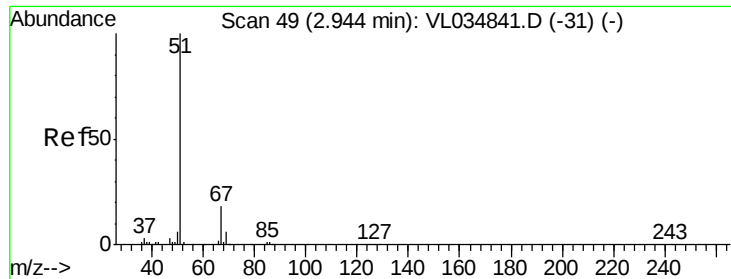
Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion:	85	Resp:	75389
Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.463 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 51 Resp: 44697

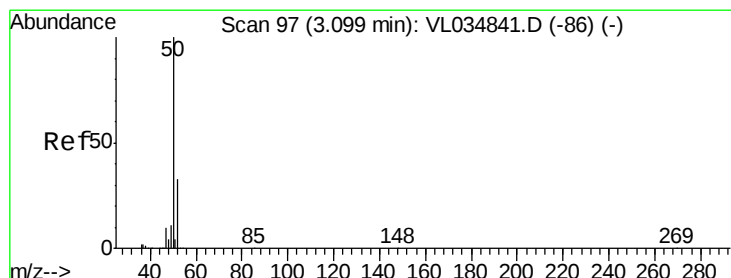
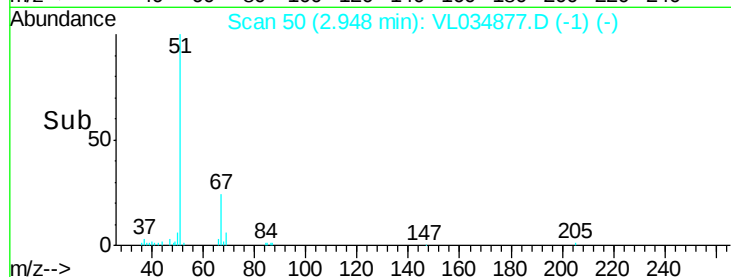
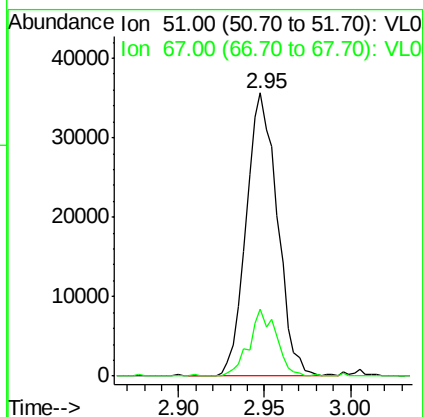
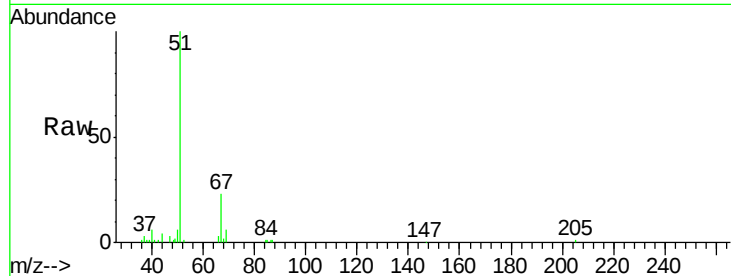
Ion Ratio Lower Upper

51 100

67 20.5 14.3 21.5

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#4

Chloromethane

Concen: 0.444 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034877.D

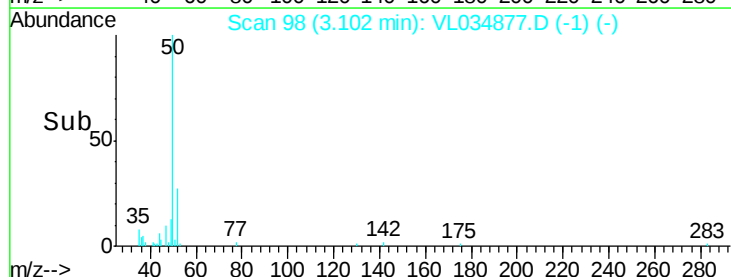
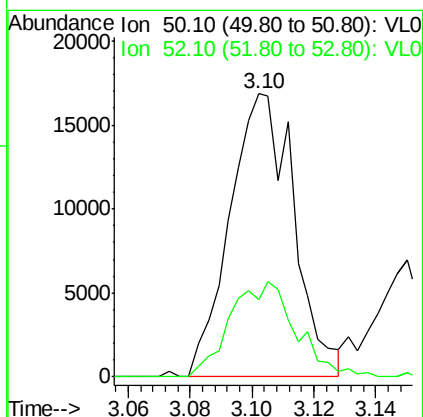
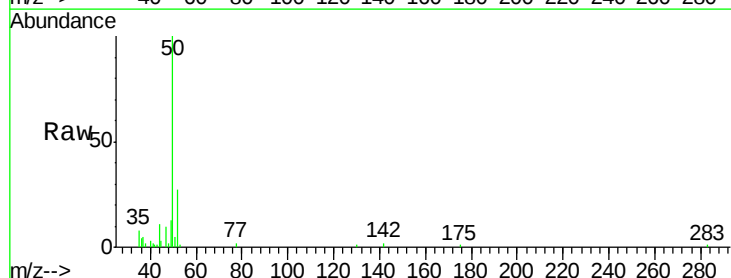
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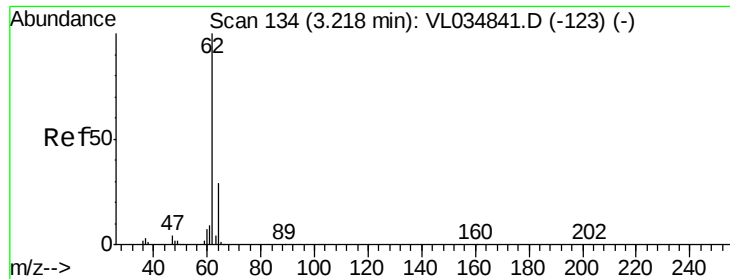
Tgt Ion: 50 Resp: 24202

Ion Ratio Lower Upper

50 100

52 27.1 26.8 40.2





#5

Vinyl Chloride

Concen: 0.436 ppbv m

RT: 3.22 min Scan# 136

Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 62 Resp: 22848

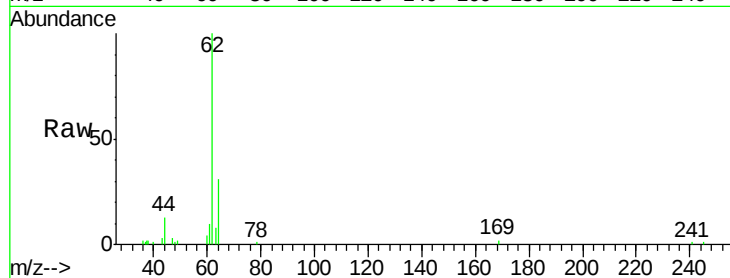
Ion Ratio Lower Upper

62 100

64 30.7 23.0 34.4

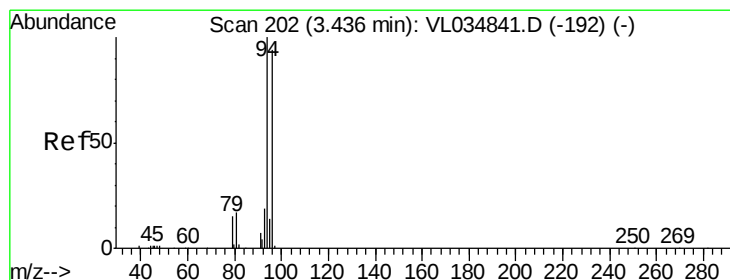
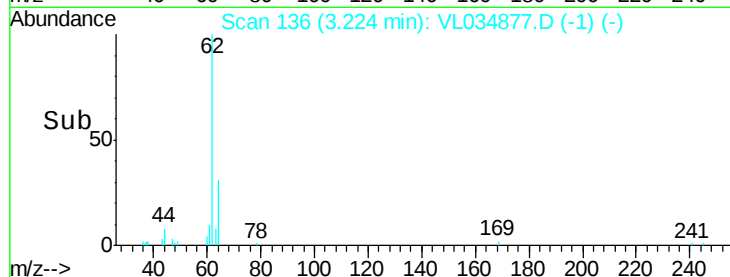
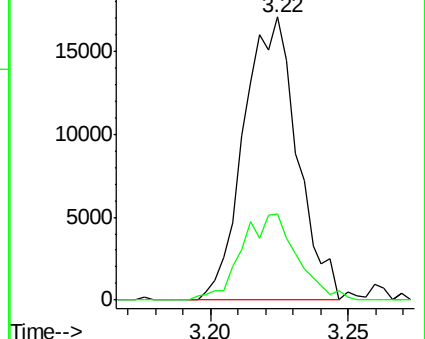
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.429 ppbv m

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034877.D

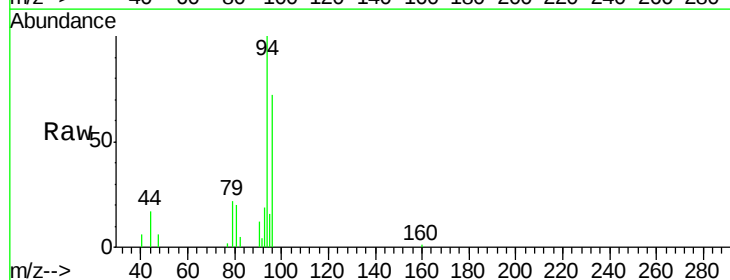
Acq: 10 Mar 2020 22:12

Tgt Ion: 94 Resp: 13096

Ion Ratio Lower Upper

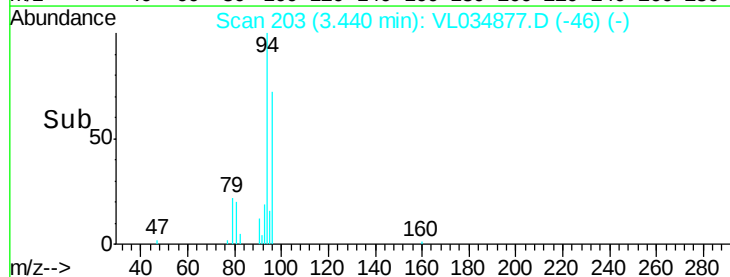
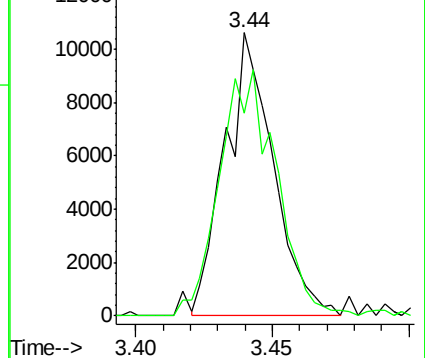
94 100

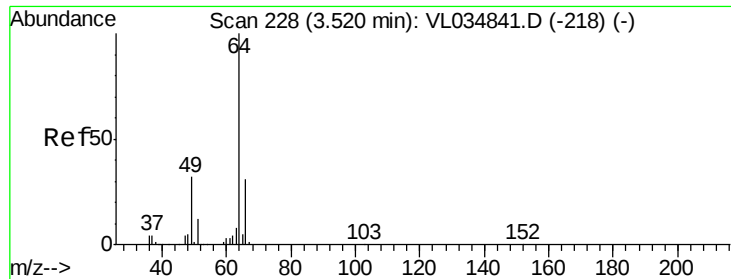
96 71.7 75.5 113.3#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.470 ppbv m

RT: 3.53 min Scan# 230

Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 64 Resp: 8897

Ion Ratio Lower Upper

64 100

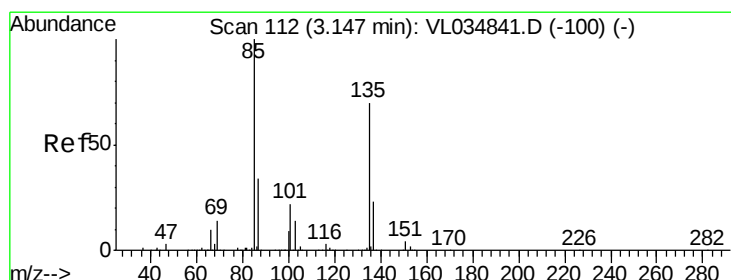
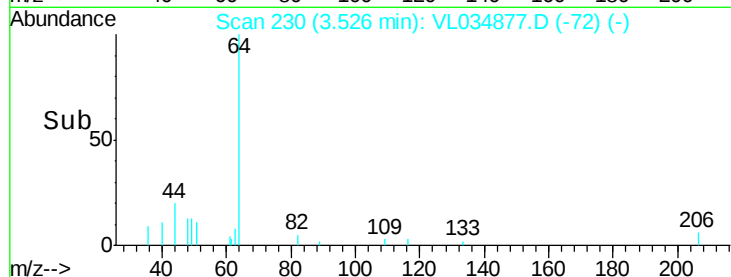
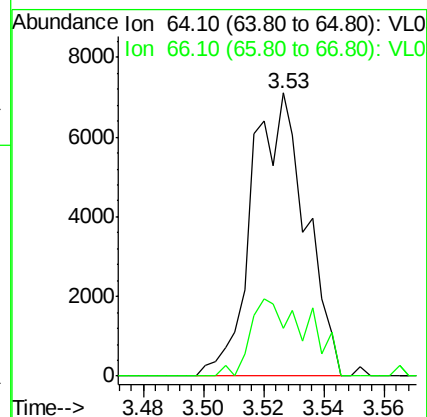
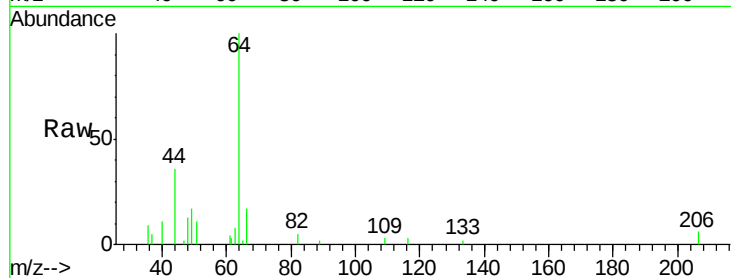
66 16.7 24.8 37.2#

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#8

Dichlorotetrafluoroethane

Concen: 0.487 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034877.D

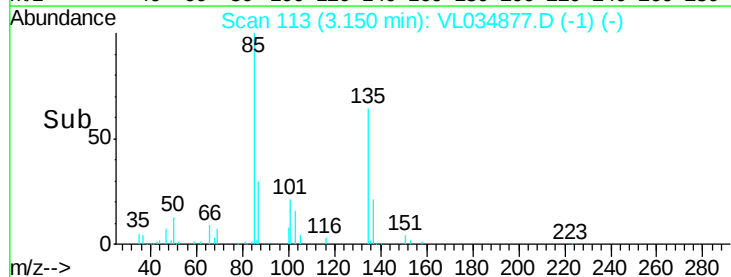
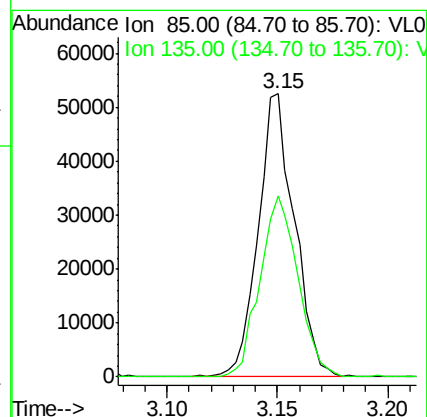
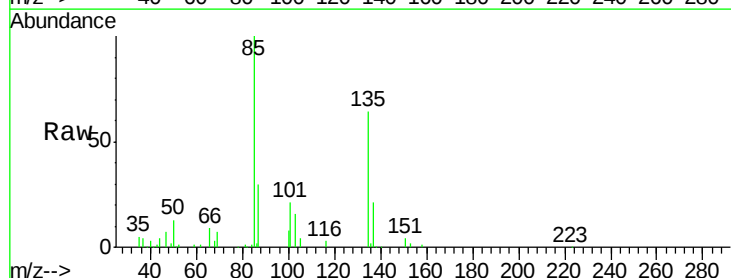
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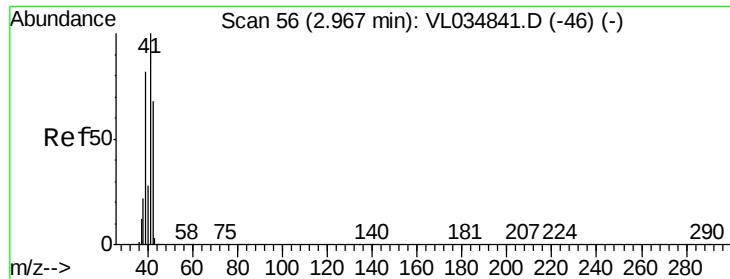
Tgt Ion: 85 Resp: 59812

Ion Ratio Lower Upper

85 100

135 67.3 54.3 81.5





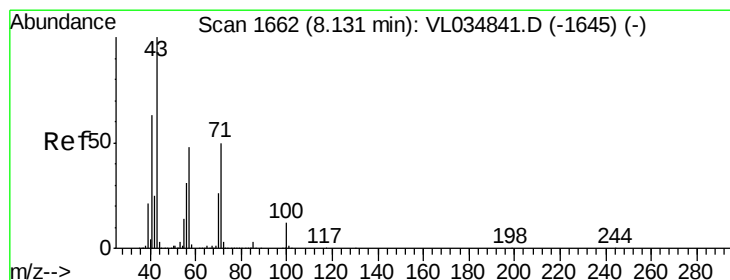
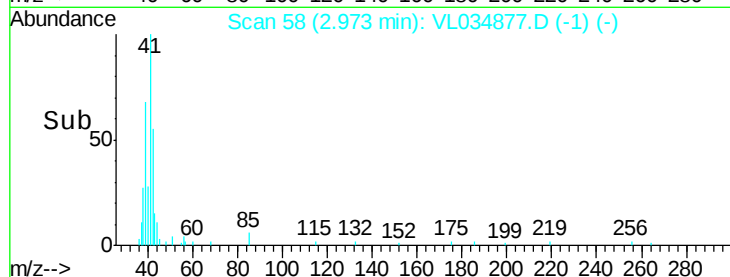
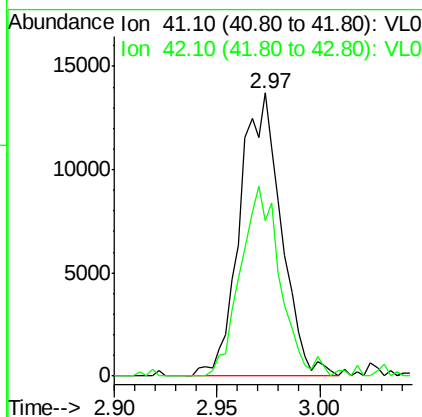
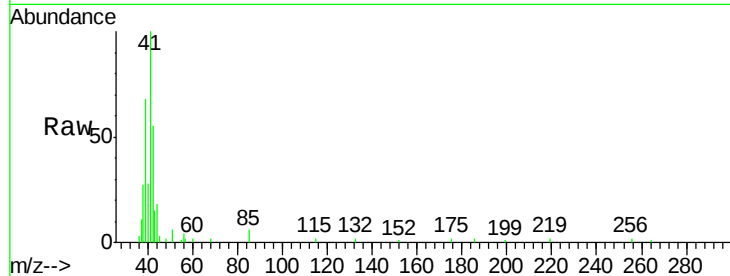
#9
 Propene
 Concen: 0.415 ppbv m
 RT: 2.97 min Scan# 58
 Delta R.T. 0.01 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
41	100		
42	0.0	55.2	82.8#

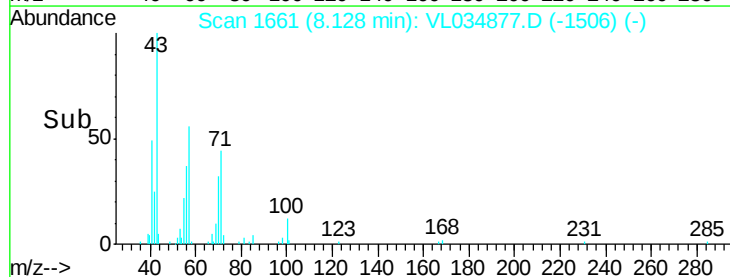
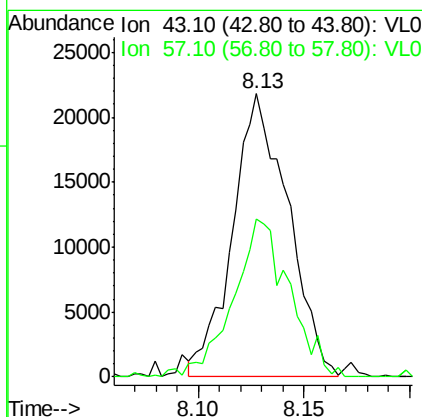
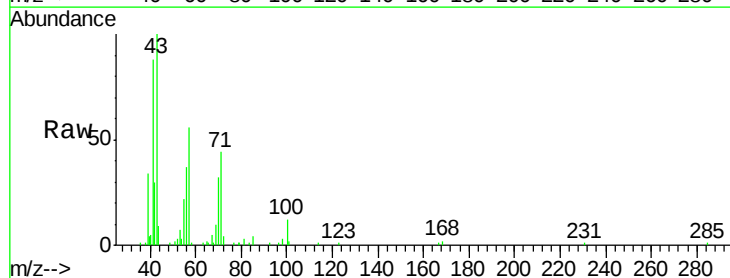
Manual Integrations
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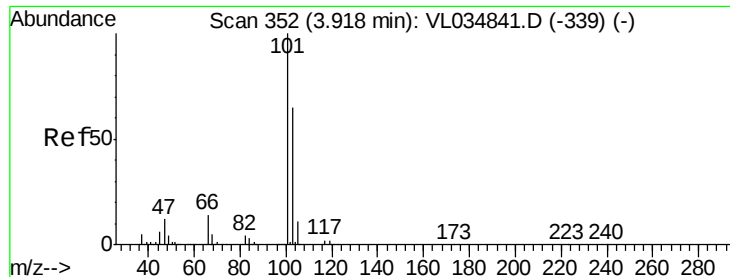
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#10
 Heptane
 Concen: 0.352 ppbv
 RT: 8.13 min Scan# 1661
 Delta R.T. -0.00 min
 Lab File: VL034877.D
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Tgt Ion	Ratio	Lower	Upper
43	100		
57	56.3	39.7	59.5





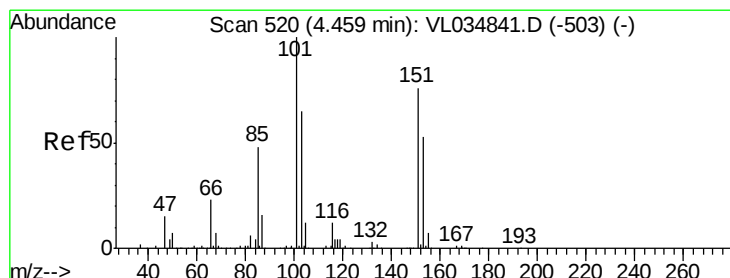
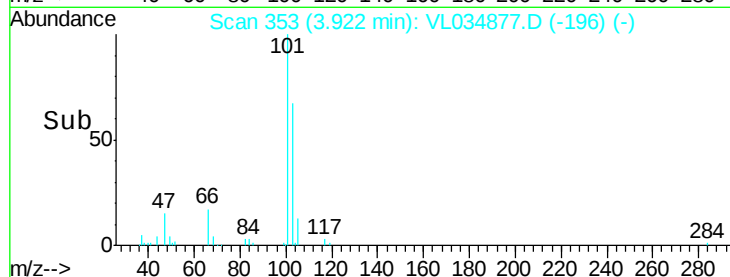
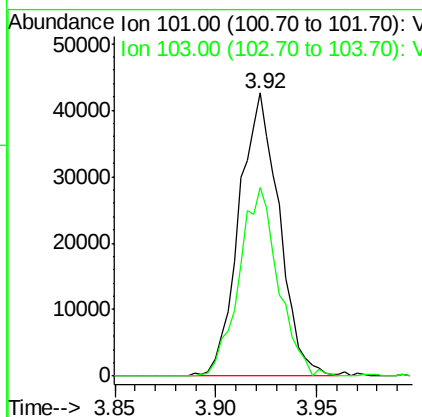
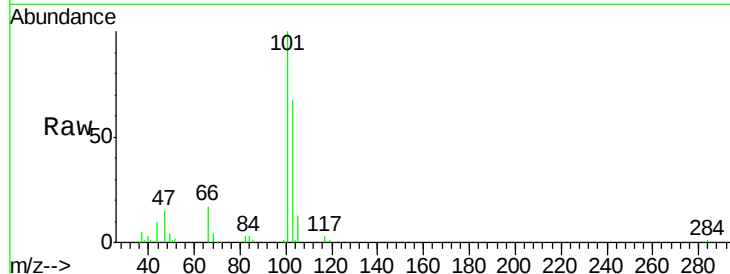
#11
 Trichlorofluoromethane
 Concen: 0.471 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.8	77.8

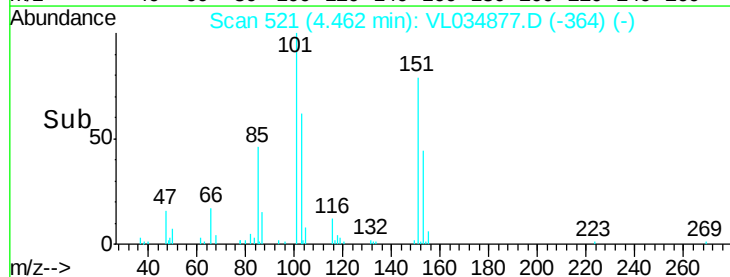
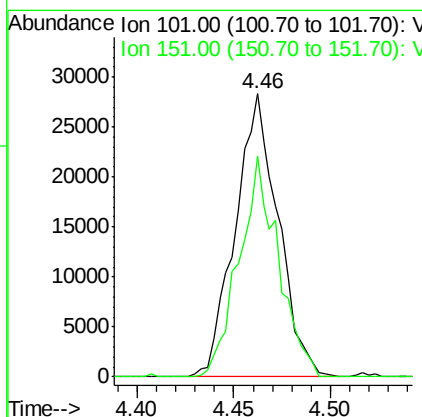
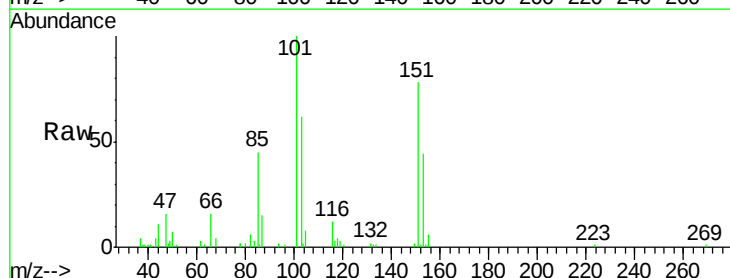
Manual Integrations
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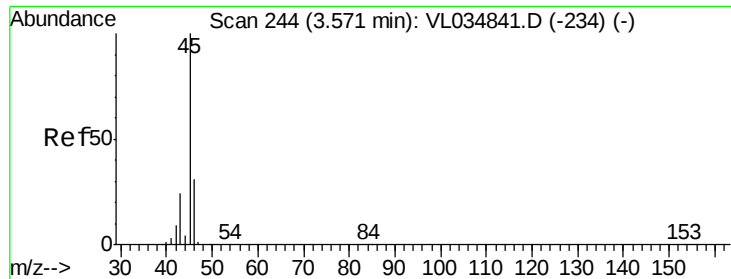
MMDadoda
 3/11/2020 3:17:46 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.497 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.0	60.8	91.2





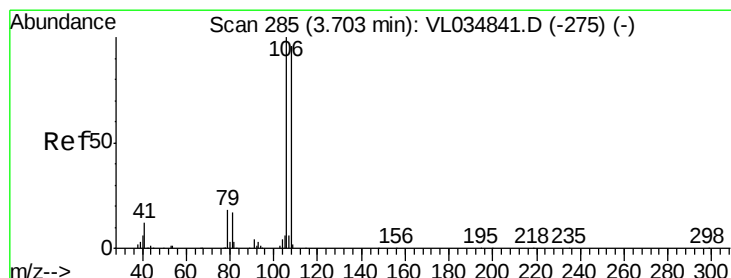
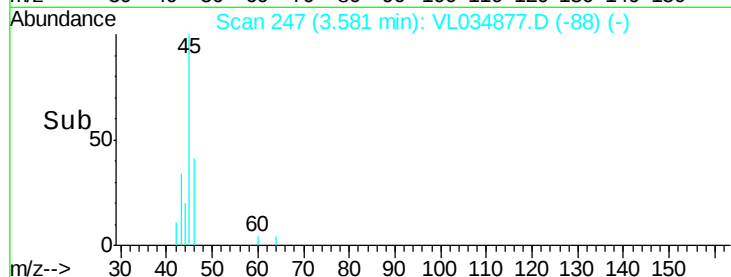
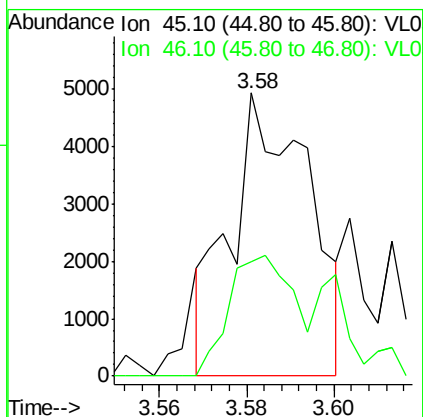
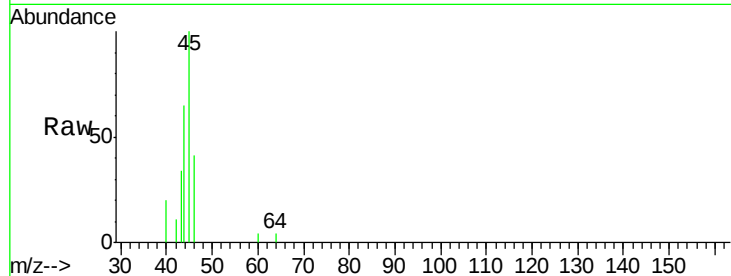
#13
Ethanol
Concen: 0.435 ppbv m
RT: 3.58 min Scan# 247
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion: 45 Resp: 6094
Ion Ratio Lower Upper
45 100
46 0.0 16.0 64.0#

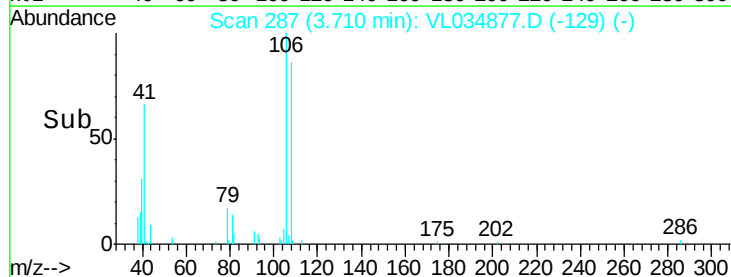
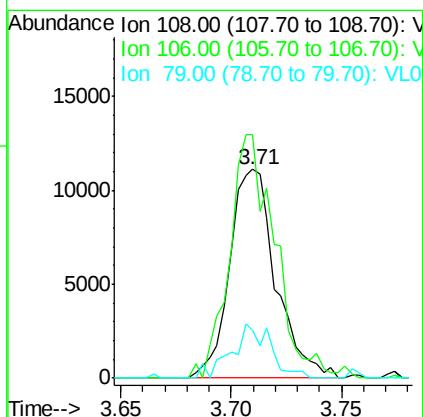
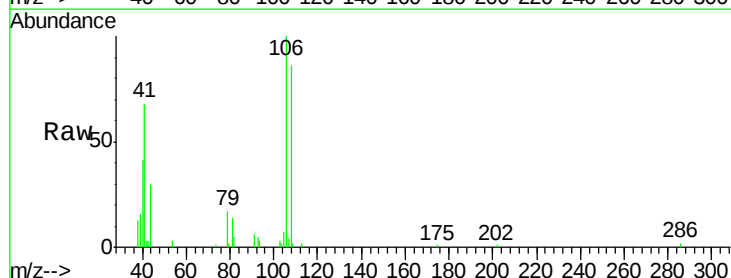
Manual Integrations
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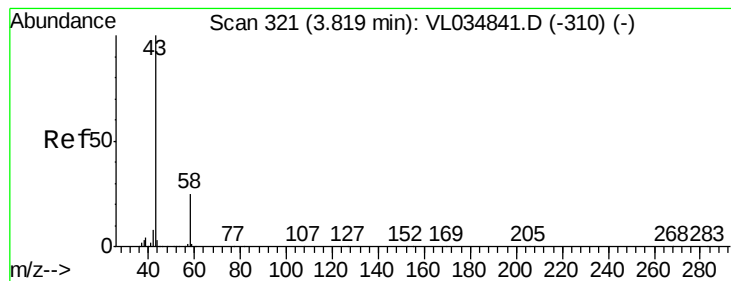
MMDadoda
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#14
Bromoethene
Concen: 0.425 ppbv
RT: 3.71 min Scan# 287
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion: 108 Resp: 16167
Ion Ratio Lower Upper
108 100
106 115.4 85.1 127.7
79 22.0 14.7 22.1





#15

Acetone

Concen: 0.500 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 43 Resp: 56000

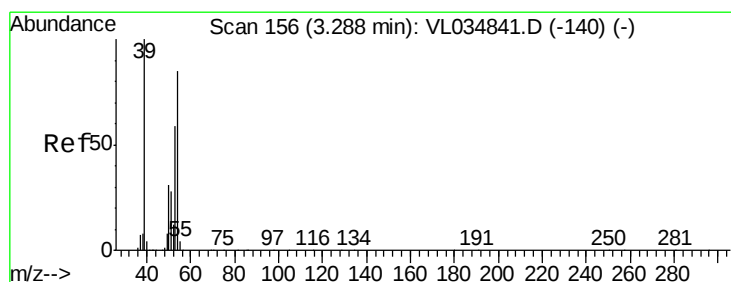
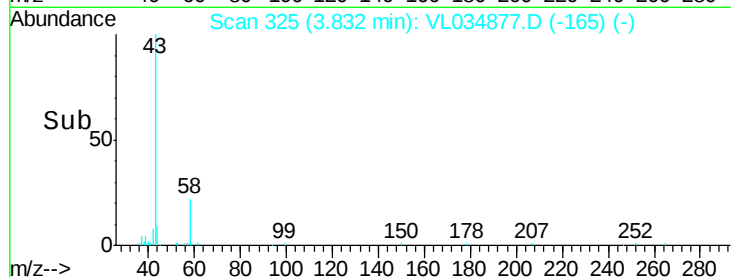
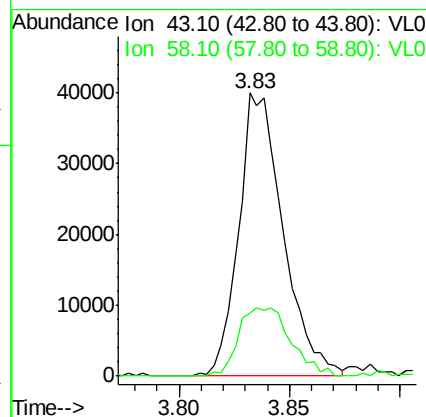
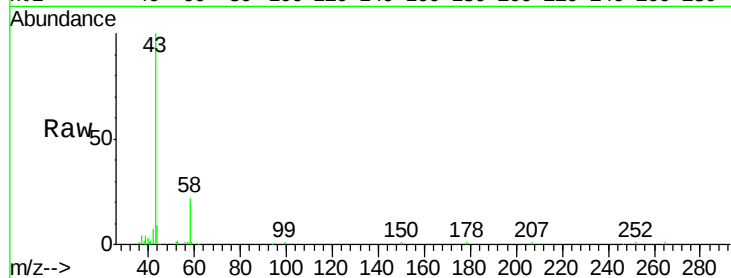
Ion Ratio Lower Upper

43 100

58 28.3 21.0 31.6

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#16

1,3-Butadiene

Concen: 0.419 ppbv

RT: 3.29 min Scan# 157

Delta R.T. 0.00 min

Lab File: VL034877.D

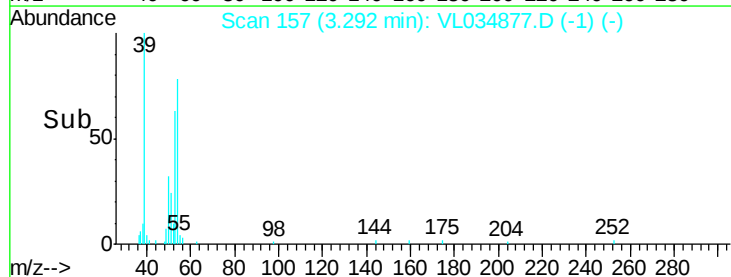
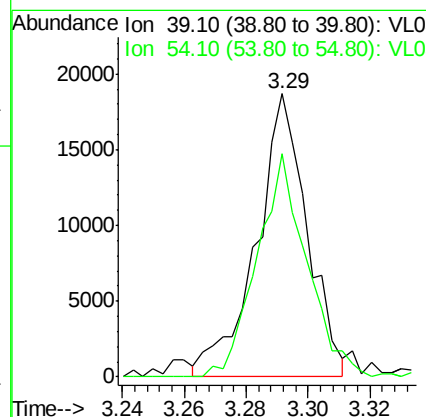
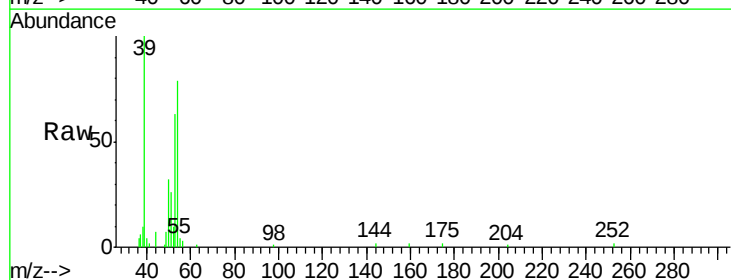
Acq: 10 Mar 2020 22:12

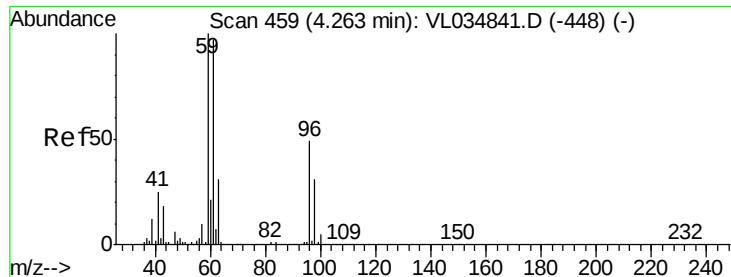
Tgt Ion: 39 Resp: 21227

Ion Ratio Lower Upper

39 100

54 77.6 65.0 97.6





#17

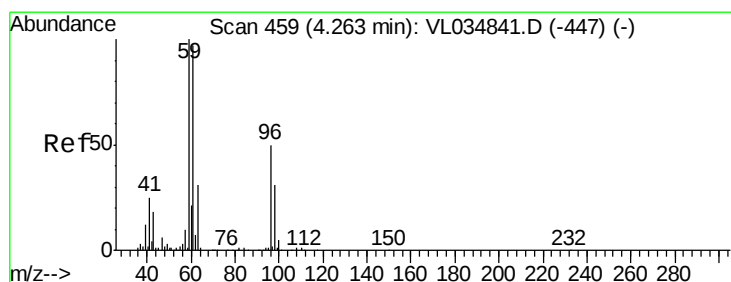
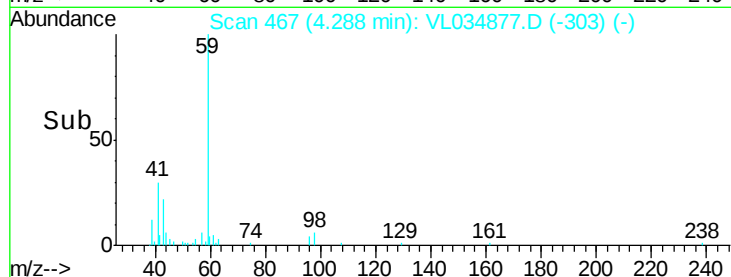
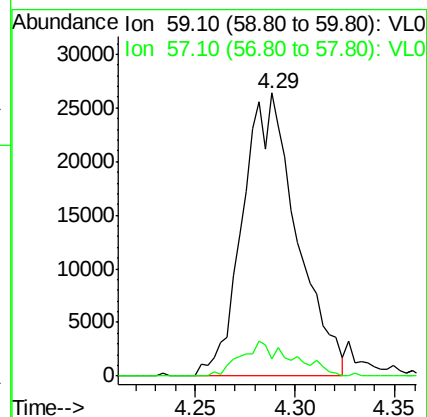
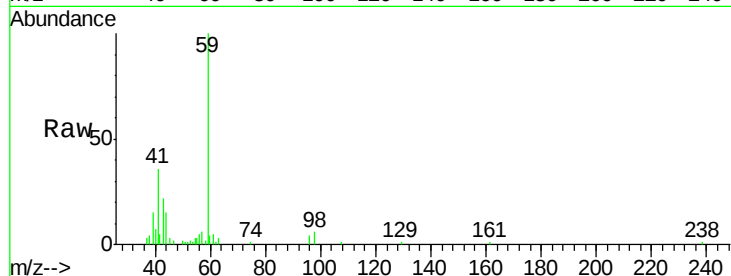
tert-Butyl alcohol
Concen: 0.463 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.03 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.3	12.5

Manual Integrations
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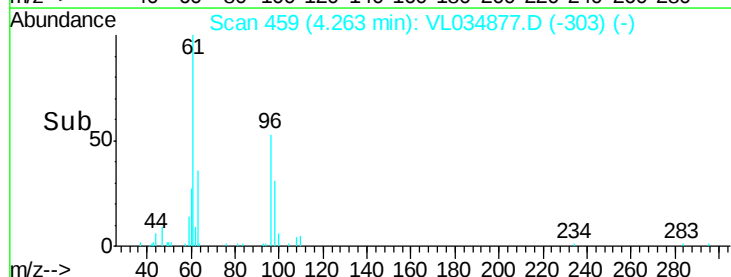
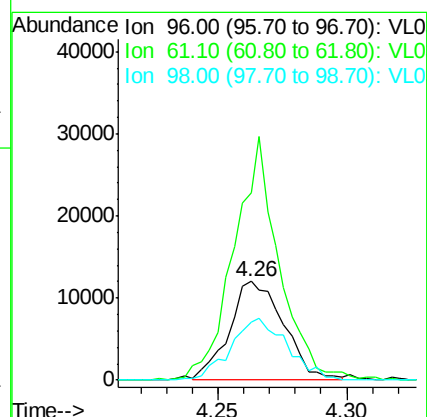
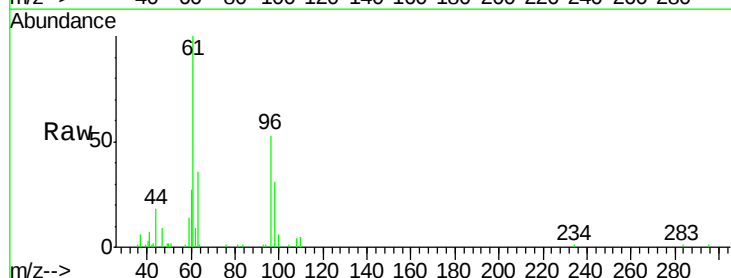
MMDadoda
3/11/2020 3:17:46 PM

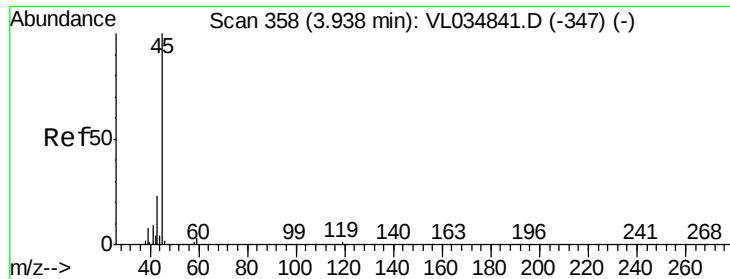


#18

1,1-Dichloroethene
Concen: 0.454 ppbv
RT: 4.26 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.4	157.3	235.9
98	60.3	50.2	75.4





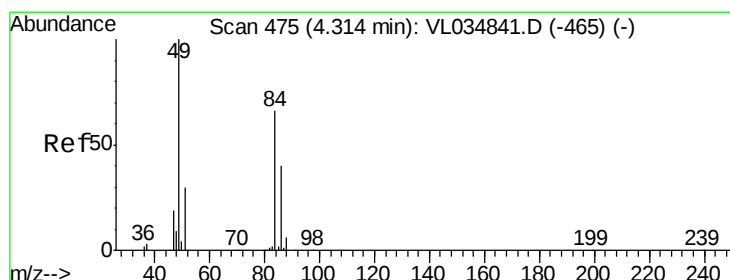
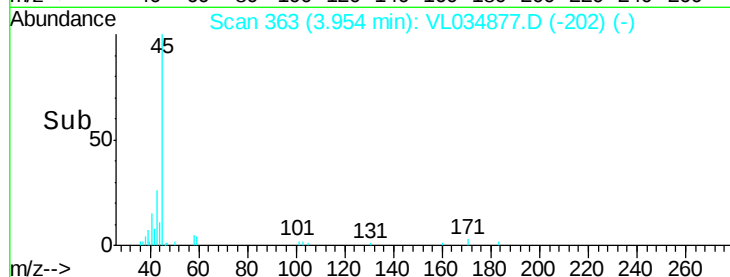
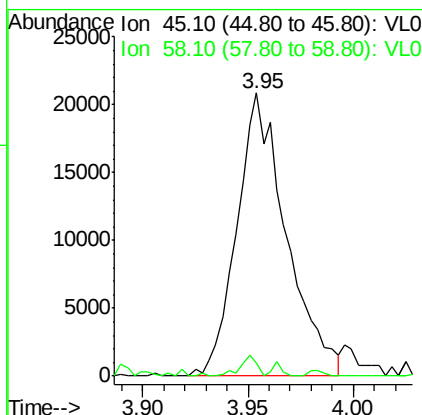
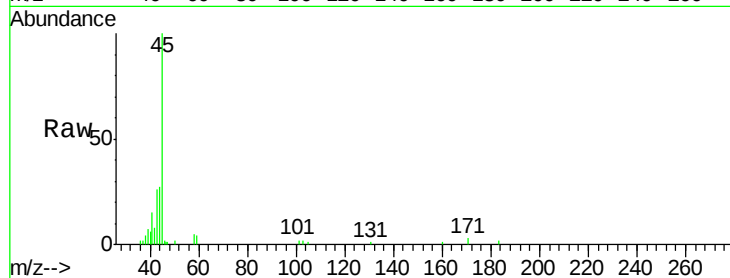
#19
Isopropyl Alcohol
Concen: 0.480 ppbv
RT: 3.95 min Scan# 363
Delta R.T. 0.02 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion: 45 Resp: 33926
Ion Ratio Lower Upper
45 100
58 4.5 30.5 45.7#

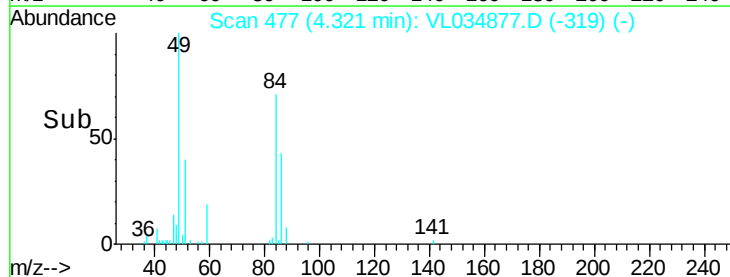
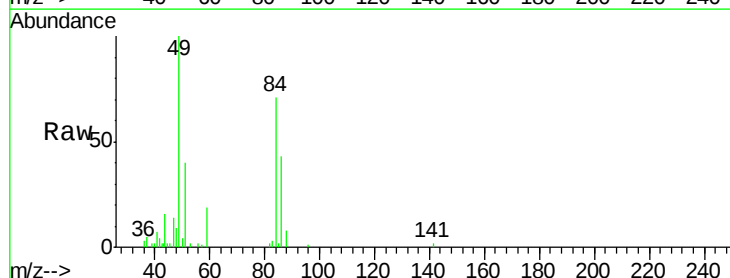
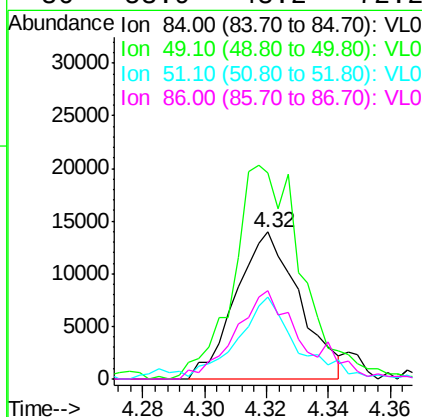
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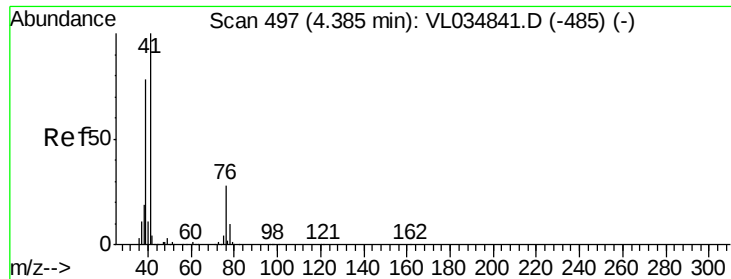
MMDadoda
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#20
Methylene Chloride
Concen: 0.566 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion: 84 Resp: 20027
Ion Ratio Lower Upper
84 100
49 129.4 121.5 182.3
51 54.0 36.6 55.0
86 53.9 48.2 72.2





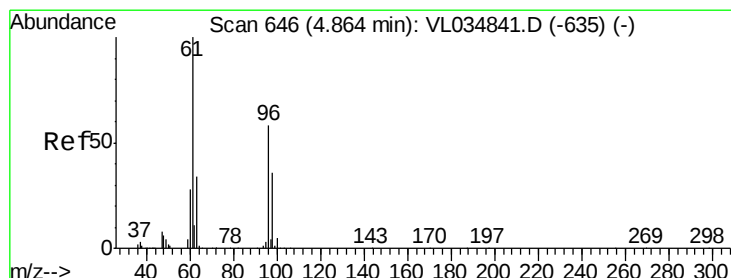
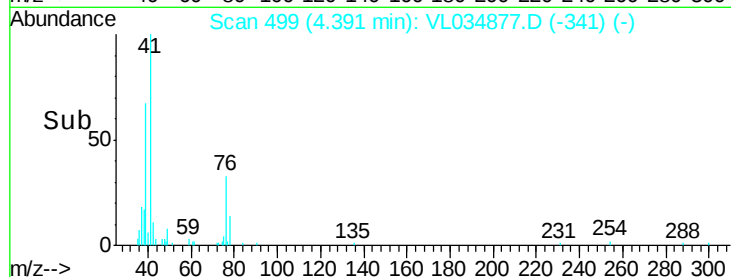
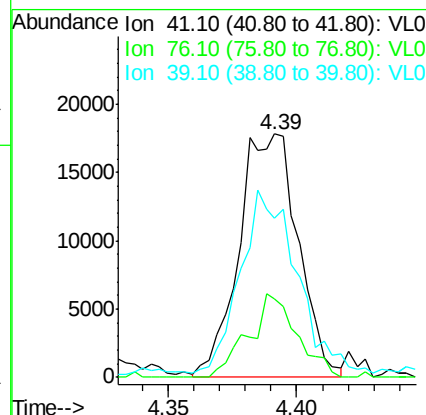
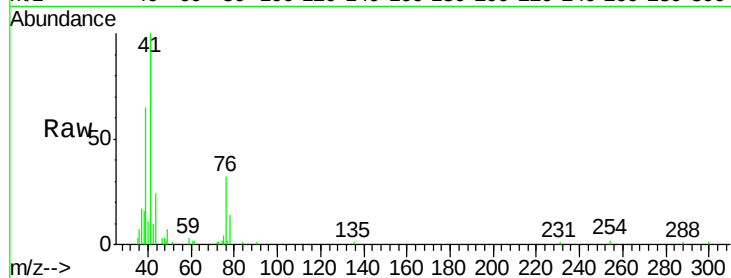
#21
Allvl Chloride
Concen: 0.397 ppbv m
RT: 4.39 min Scan# 499
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.2	33.2#
39	0.0	62.6	93.8#

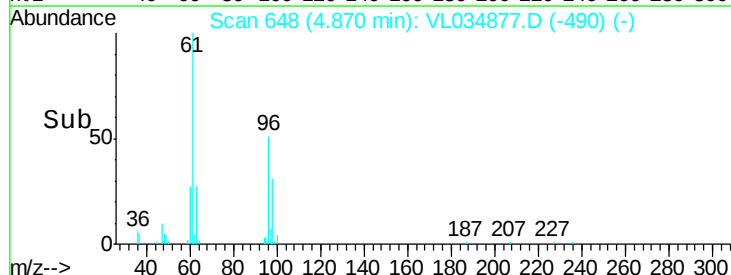
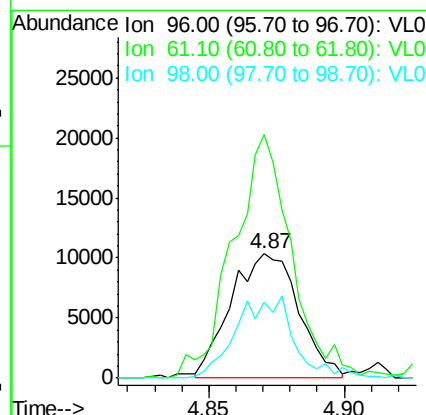
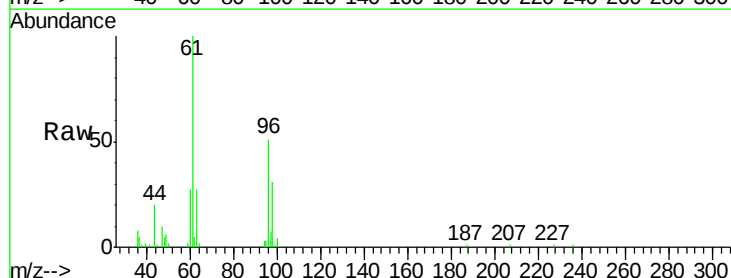
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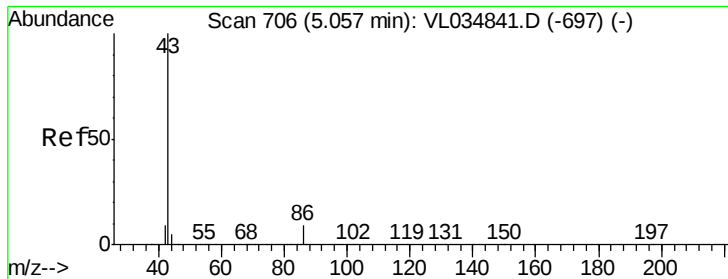
MMDadoda
3/11/2020 3:17:46 PM



#22
trans-1,2-Dichloroethene
Concen: 0.456 ppbv m
RT: 4.87 min Scan# 648
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	195.7	139.0	208.6
98	60.7	50.3	75.5





#23

Vinyl Acetate

Concen: 0.350 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

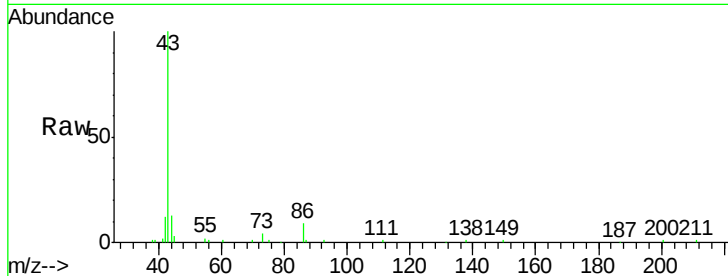
MDL-AIR-01-QT1-2020

Tot Ion: 43 Resp: 57852

Ion	Ratio	Lower	Upper
43	100		
86	9.6	6.3	9.5#
42	12.2	7.8	11.8#
44	9.2	4.0	6.0#

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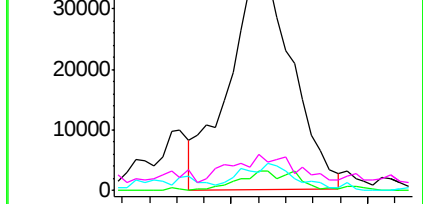


Abundance Ion 43.10 (42.80 to 43.80): VL0

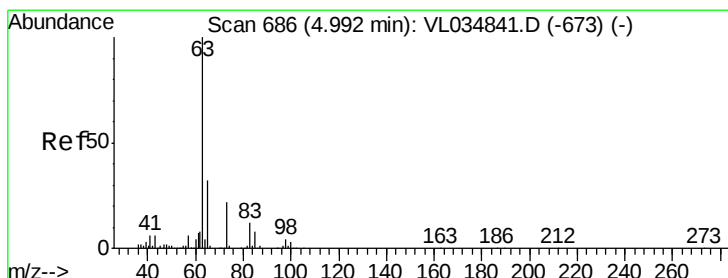
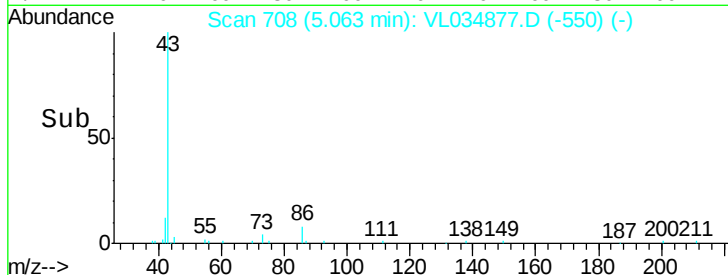
Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



Time-->



#24

1,1-Dichloroethane

Concen: 0.465 ppbv m

RT: 4.99 min Scan# 685

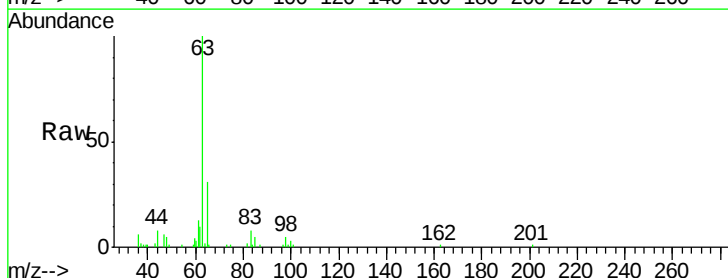
Delta R.T. -0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion: 63 Resp: 51578

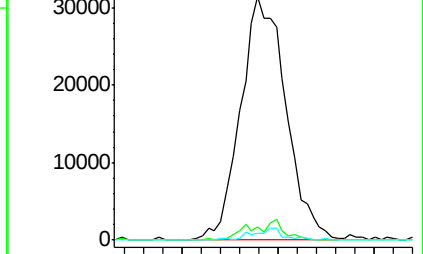
Ion	Ratio	Lower	Upper
63	100		
98	5.4	2.0	5.8
100	2.9	1.4	4.0



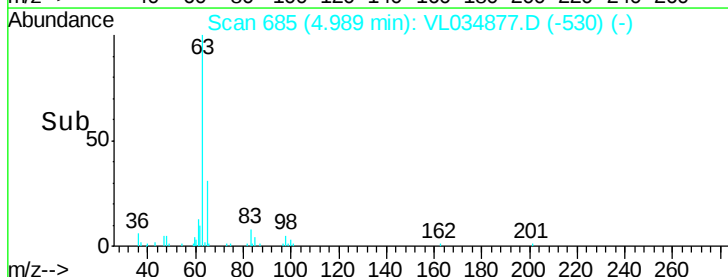
Abundance Ion 63.10 (62.80 to 63.80): VL0

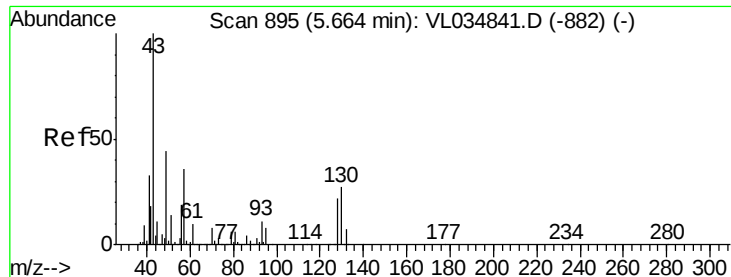
Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



Time-->





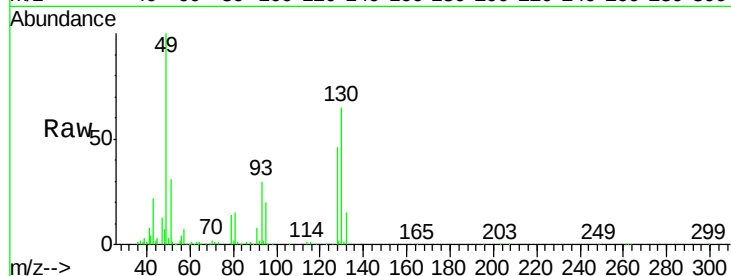
#25
Ethyl Acetate
Concen: 0.426 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.2	12.2
61	9.6	7.8	11.6
70	8.2	5.8	8.8

Manual Integrations
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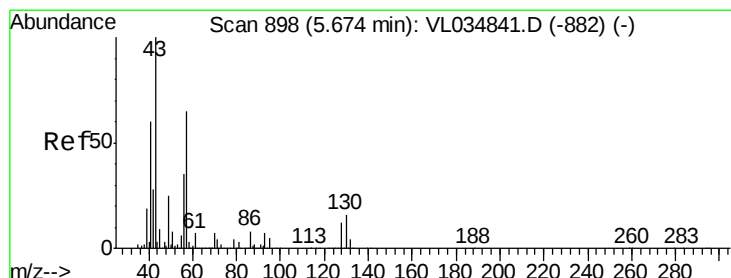
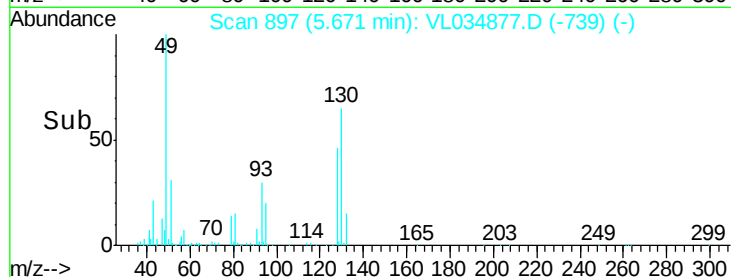
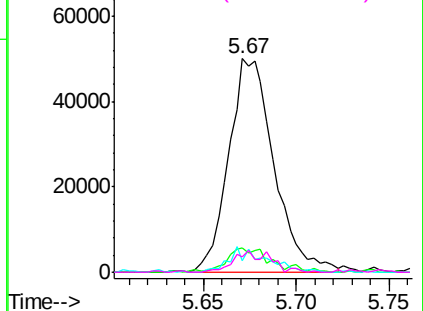
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.389 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
57	100		
41	105.8	72.6	109.0
43	258.5	183.8	275.6
56	58.3	41.9	62.9

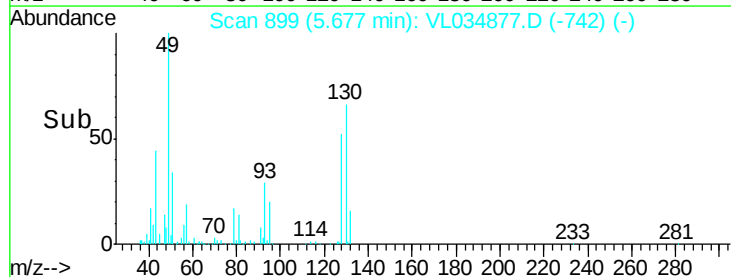
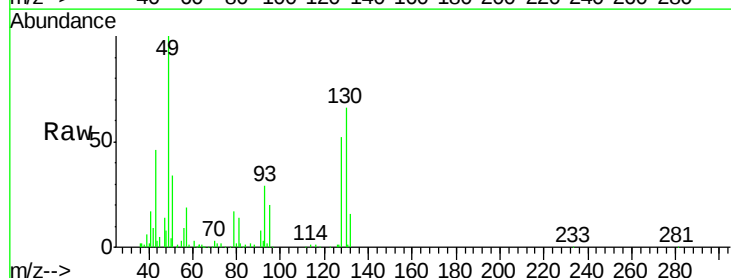
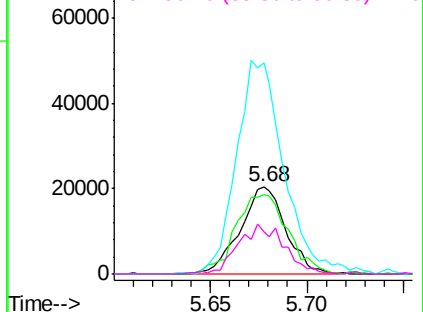
Abundance

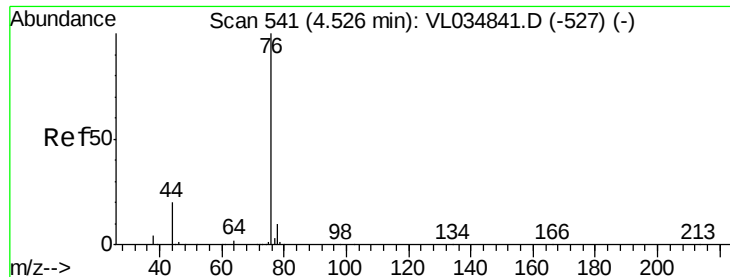
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





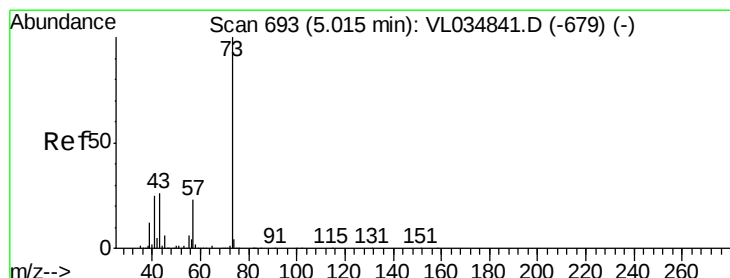
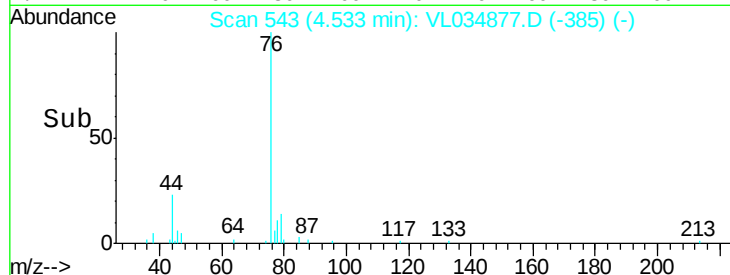
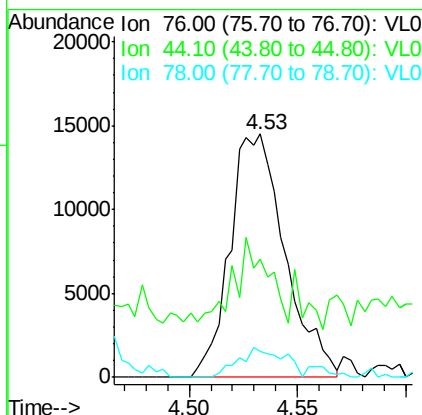
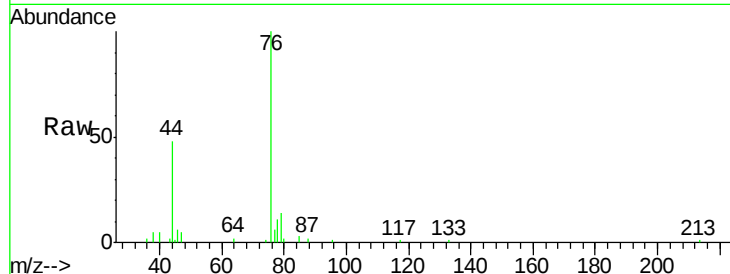
#27
Carbon Disulfide
Concen: 0.264 ppbv m
RT: 4.53 min Scan# 543
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
76	100		
44	37.8	16.2	24.2#
78	0.0	7.8	11.6#

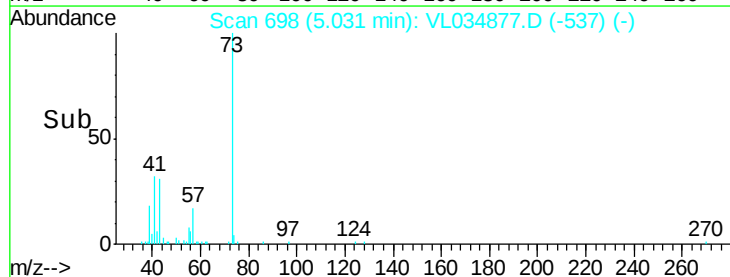
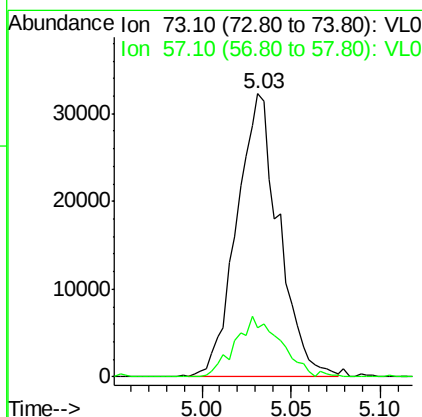
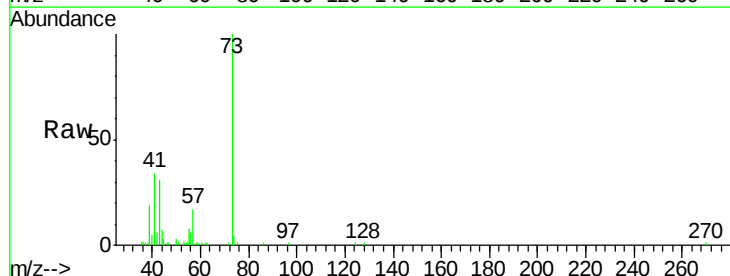
Manual Integrations
APPROVED

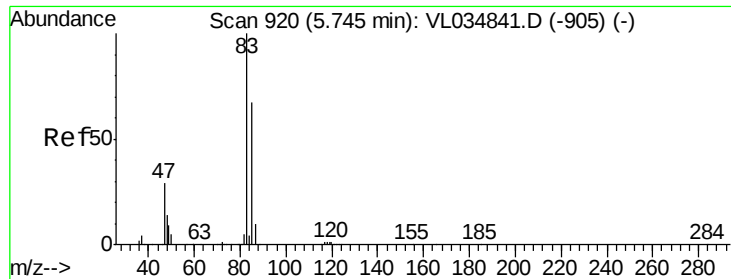
MMDadoda
3/11/2020 3:17:46 PM



#28
Methyl tert-Butyl Ether
Concen: 0.374 ppbv
RT: 5.03 min Scan# 698
Delta R.T. 0.02 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.3	27.5





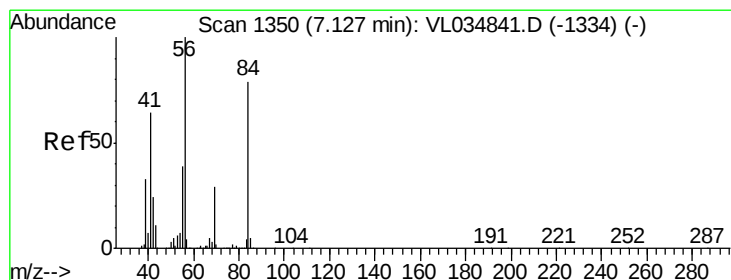
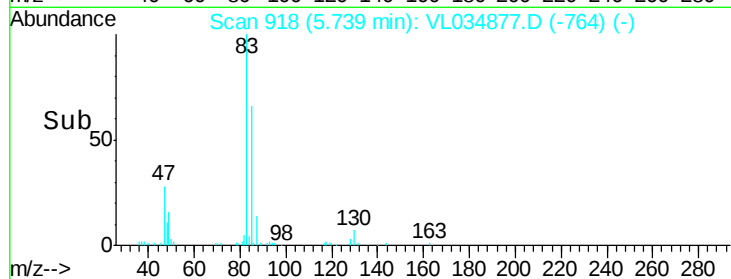
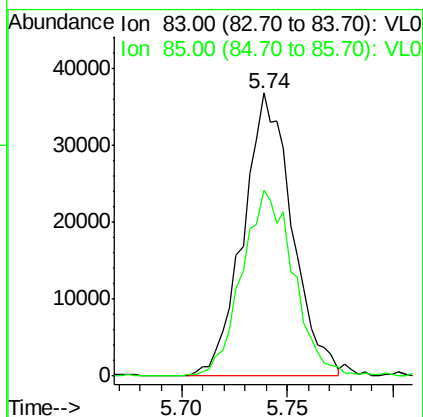
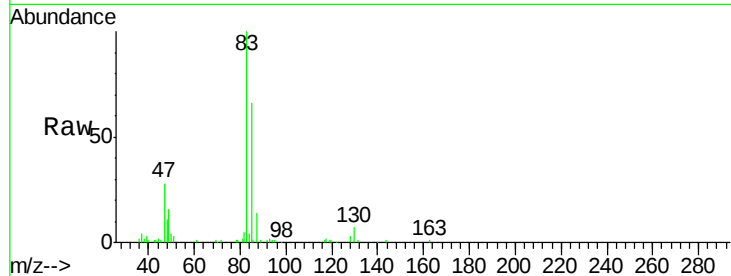
#29
Chloroform
Concen: 0.452 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	83	Resp	59283
Ion Ratio	Lower	Upper	
83	100		
85	65.5	53.8	80.6

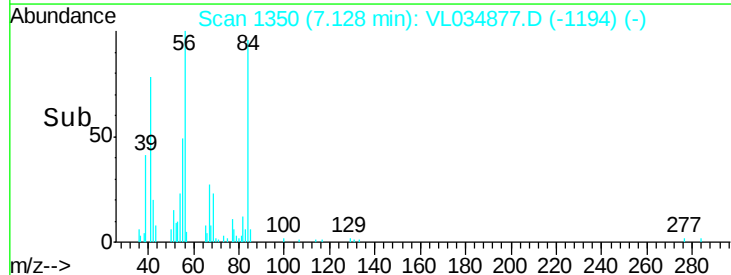
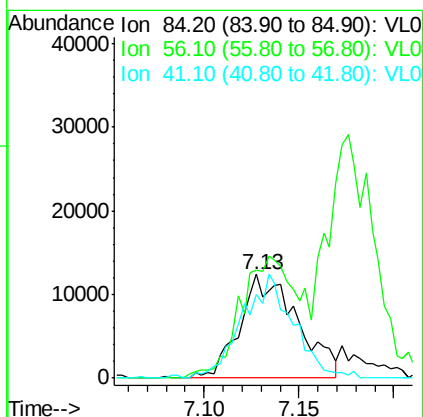
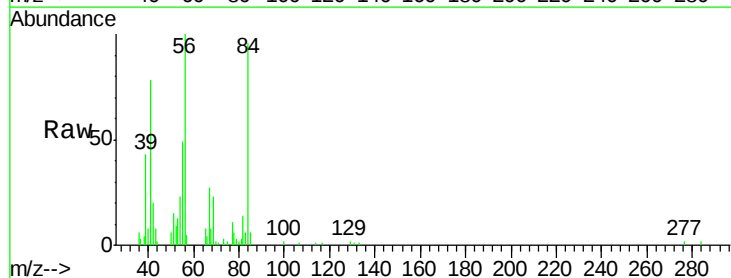
Manual Integrations
APPROVED

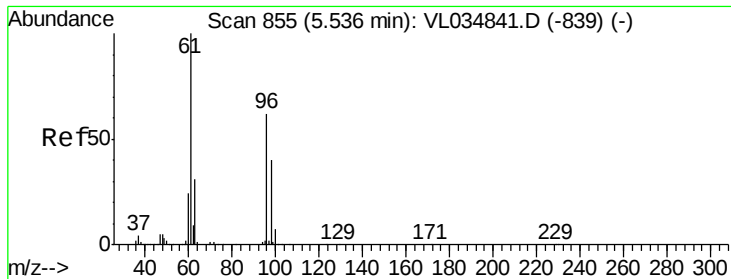
MMDadoda
3/11/2020 3:17:46 PM



#30
Cyclohexane
Concen: 0.364 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	84	Resp	26083
Ion Ratio	Lower	Upper	
84	100		
56	0.0	110.5	165.7#
41	0.0	68.2	102.4#





#31

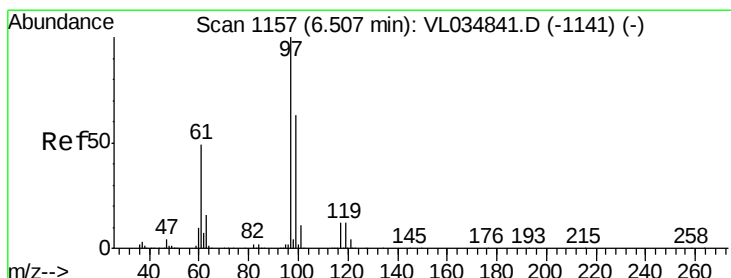
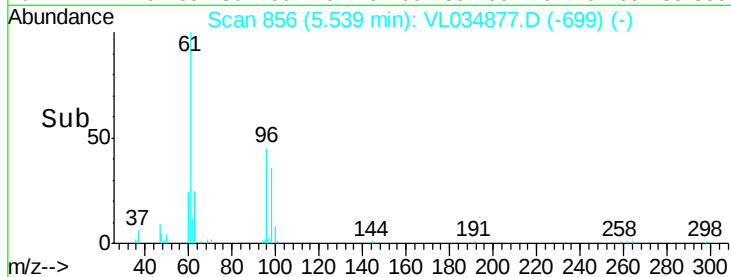
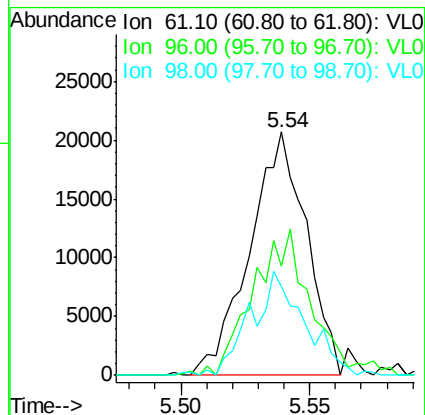
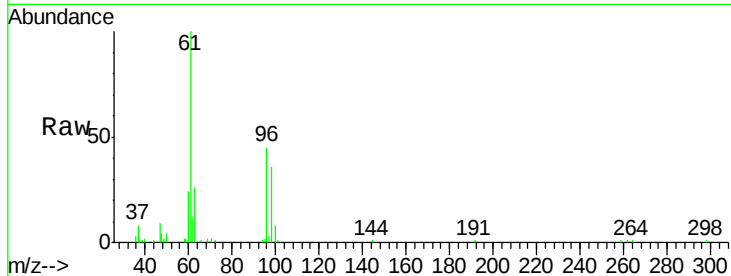
cis-1,2-Dichloroethene
Concen: 0.361 ppbv
RT: 5.54 min Scan# 856
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
61	100		
96	43.5	49.8	74.8#
98	35.0	32.2	48.4

Manual Integrations
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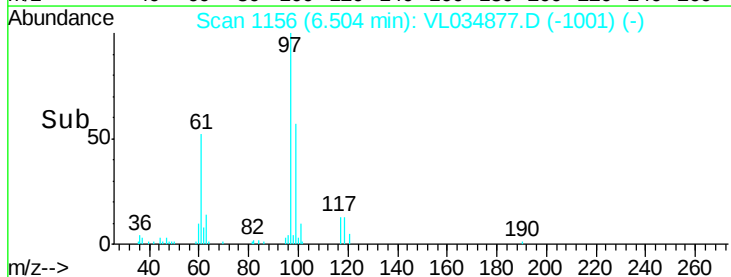
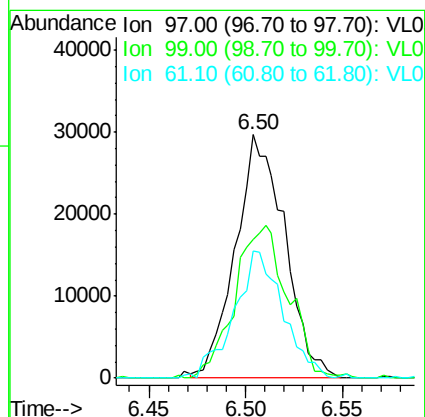
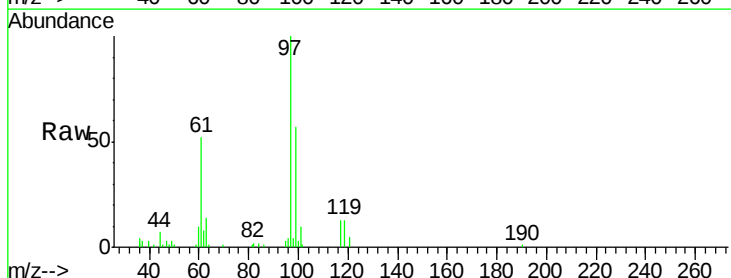
MMDadoda
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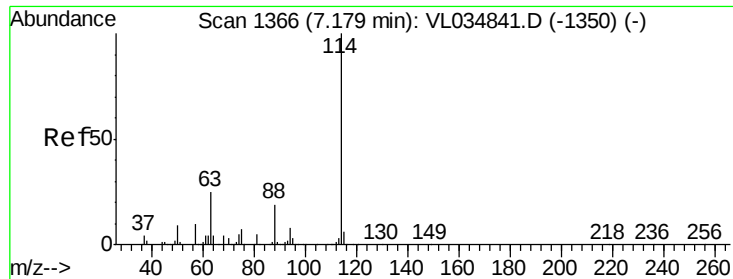


#32

1,1,1-Trichloroethane
Concen: 0.412 ppbv
RT: 6.50 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.0	51.1	76.7
61	51.8	39.7	59.5





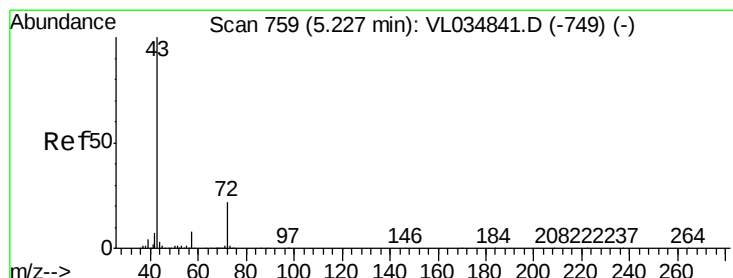
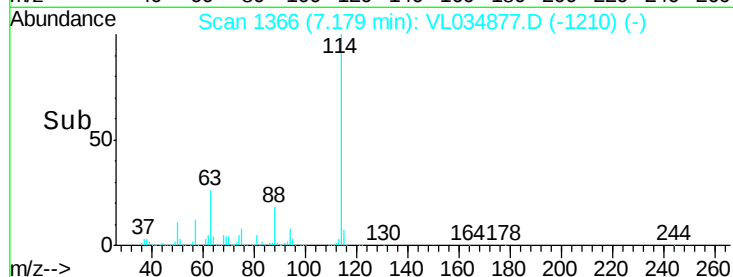
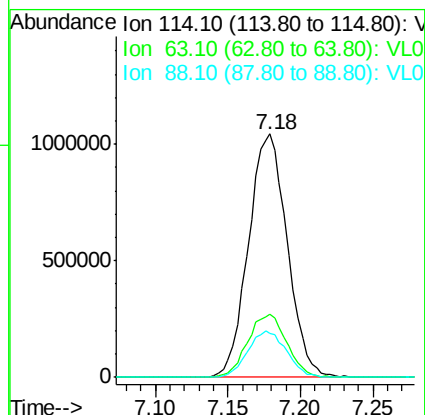
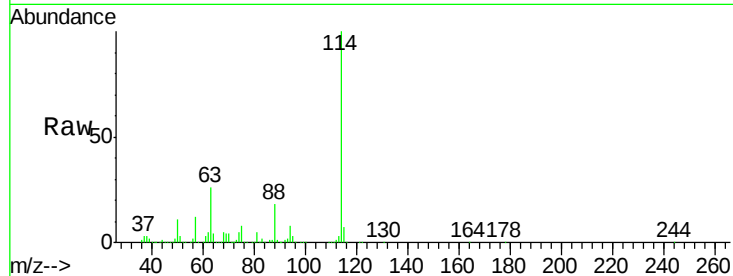
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

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

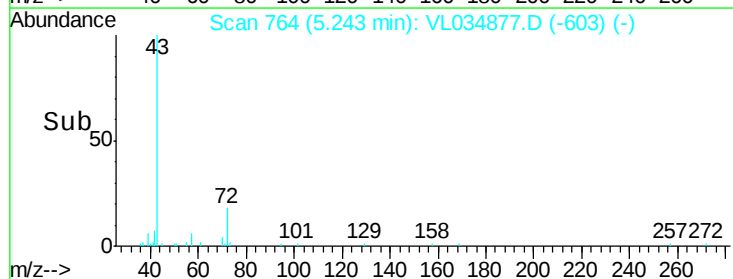
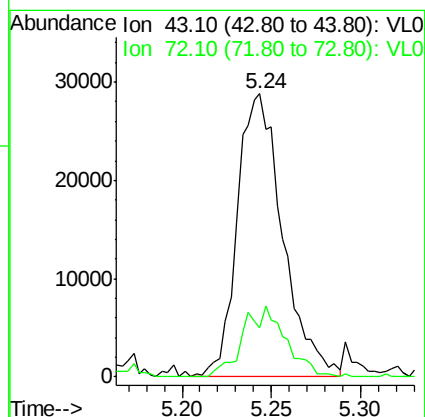
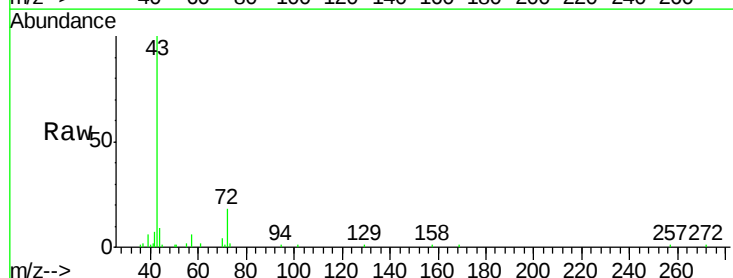
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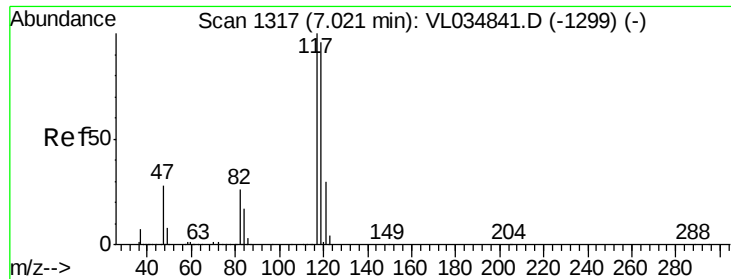
MMDadoda
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#34
 2-Butanone
 Concen: 0.396 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.02 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.9	17.6	26.4





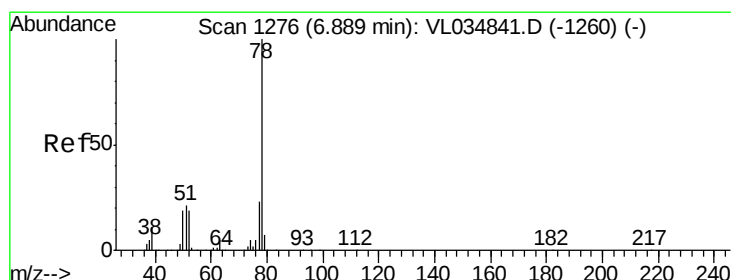
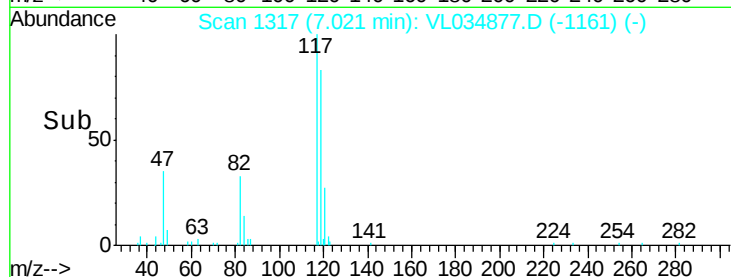
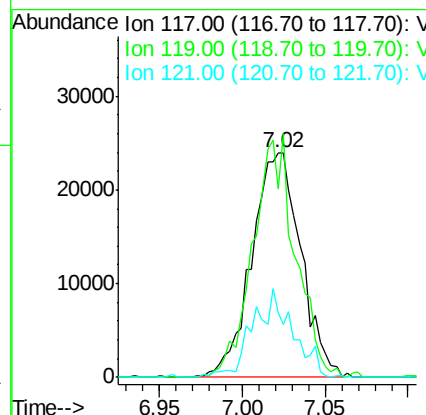
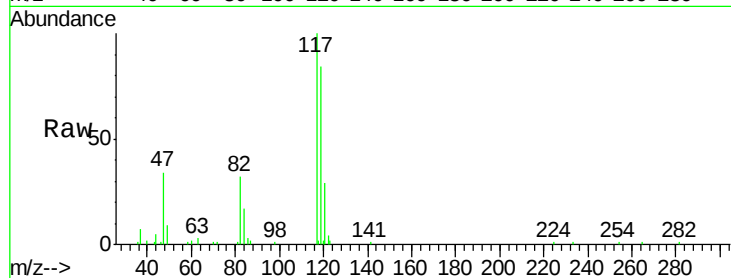
#35
Carbon Tetrachloride
Concen: 0.408 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
117	100		
119	86.5	77.0	115.4
121	28.9	24.0	36.0

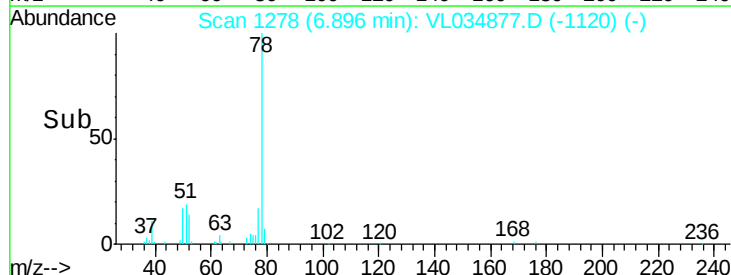
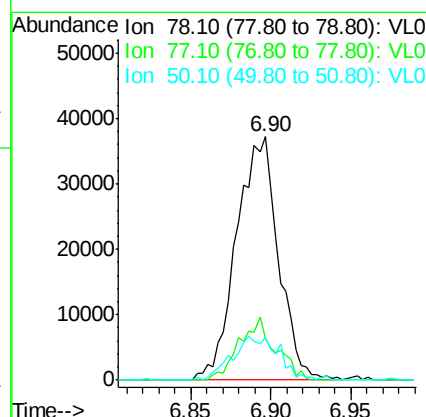
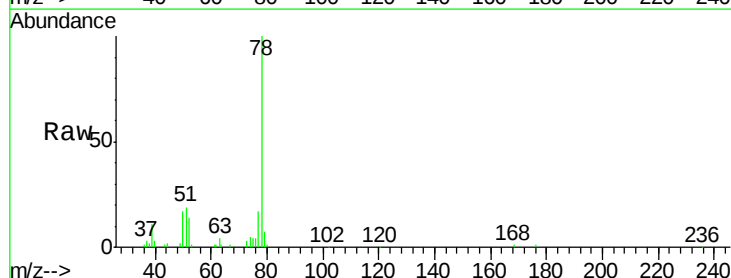
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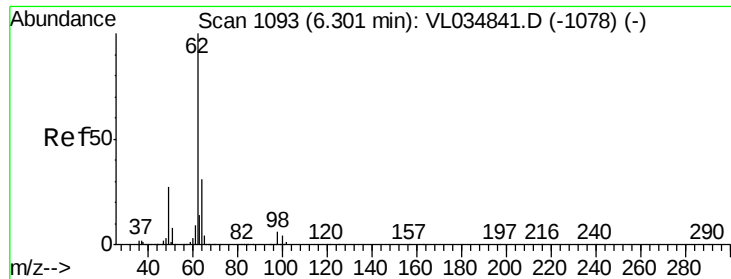
MMDadoda
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#36
Benzene
Concen: 0.386 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.9	18.2	27.2#
50	17.5	15.2	22.8





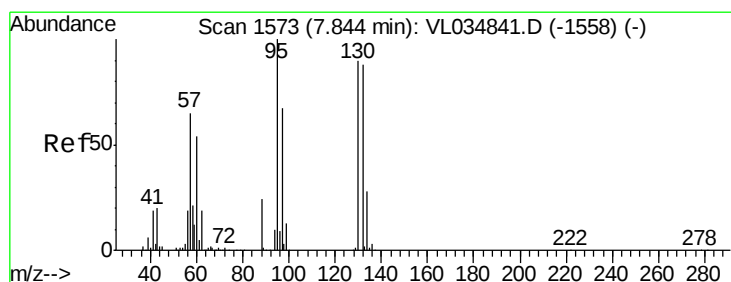
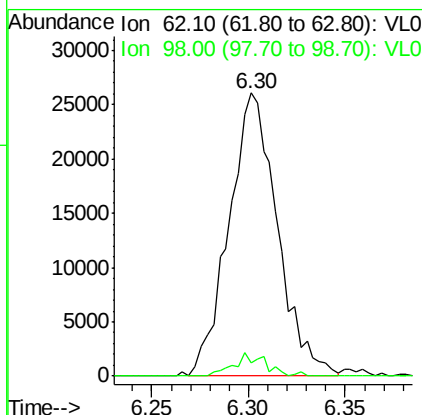
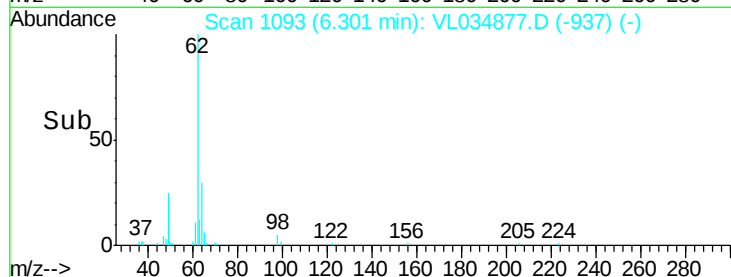
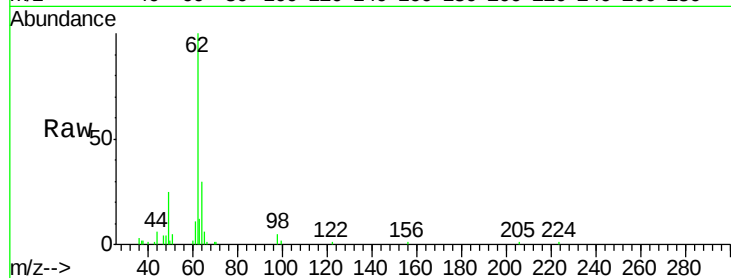
#37
 1,2-Dichloroethane
 Concen: 0.467 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. 0.00 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Resp	Lower	Upper
62	100	45532		
98	5.3		5.2	7.8

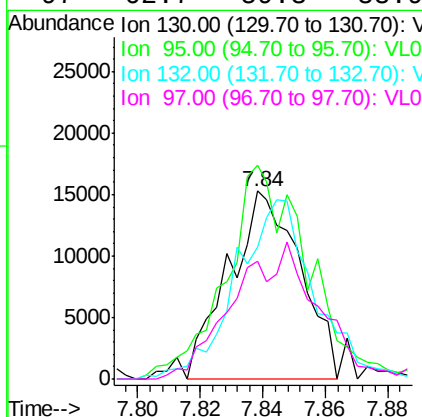
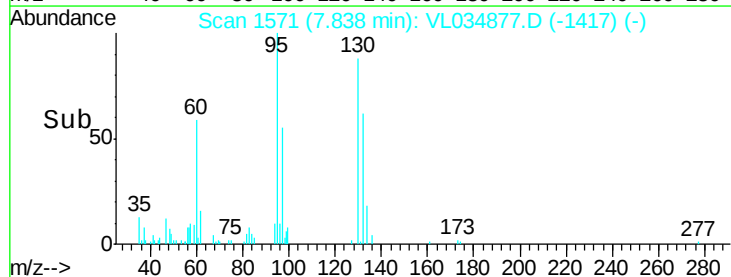
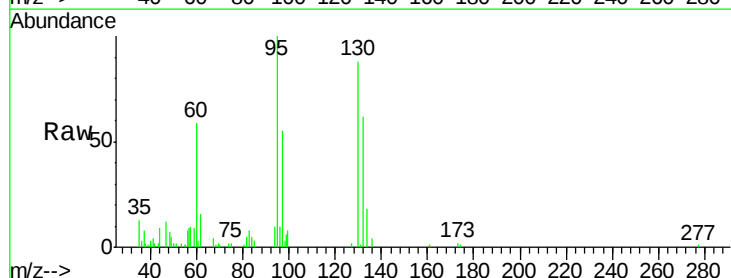
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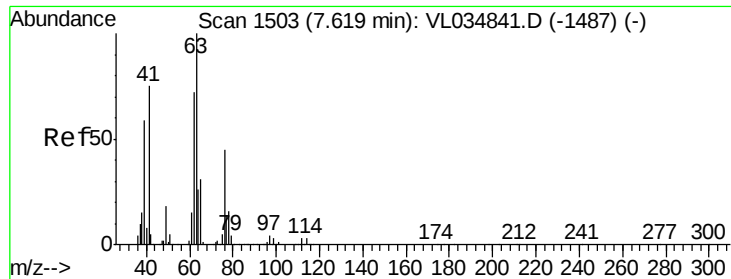
MMDadoda
 3/11/2020 3:17:46 PM



#38
 Trichloroethene
 Concen: 0.368 ppbv m
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	24120		
95	113.6		88.5	132.7
132	70.1		78.0	117.0#
97	62.7		59.3	88.9





#39

1,2-Dichloropropane

Concen: 0.412 ppbv m

RT: 7.62 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

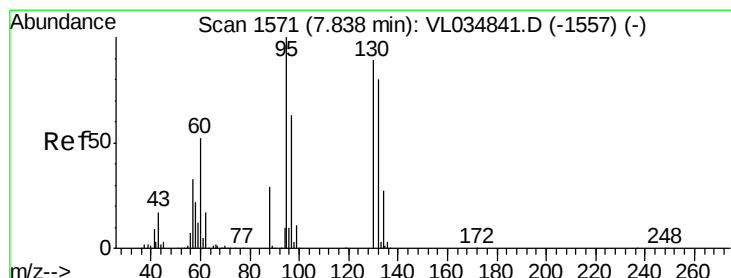
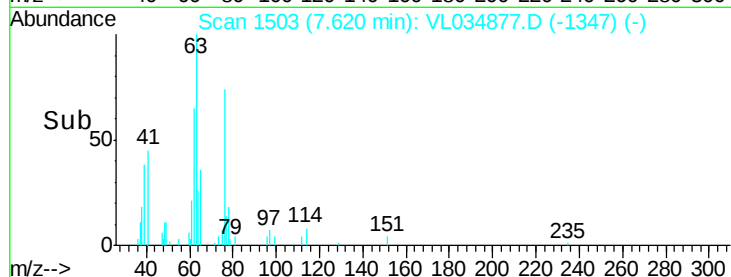
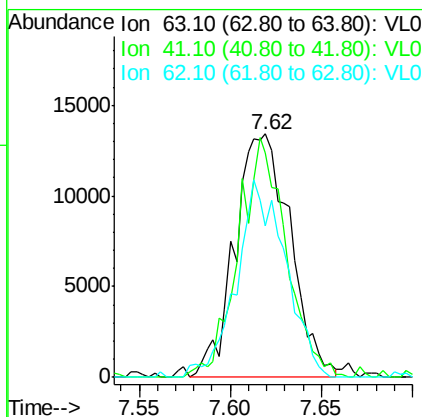
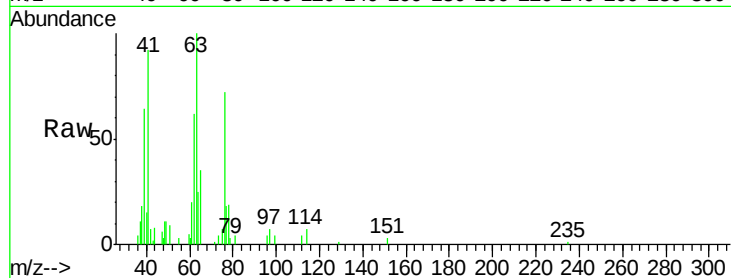
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	63	Resp:	28193
Ion	Ratio	Lower	Upper
63	100		
41	92.1	59.8	89.8#
62	62.4	57.6	86.4

Manual Integrations
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#40

1,4-Dioxane

Concen: 0.462 ppbv m

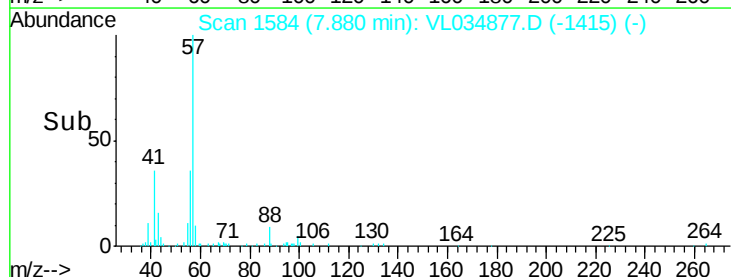
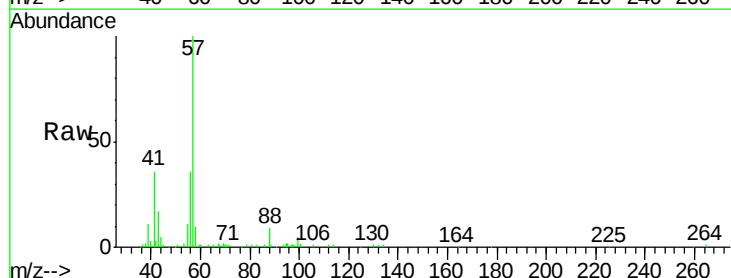
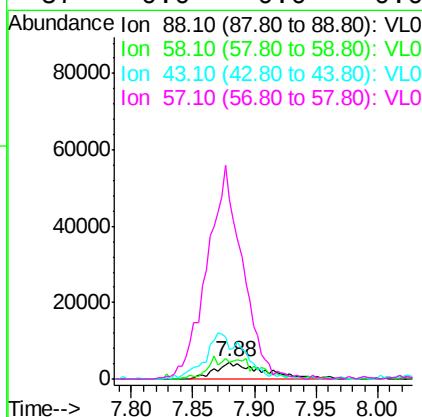
RT: 7.88 min Scan# 1584

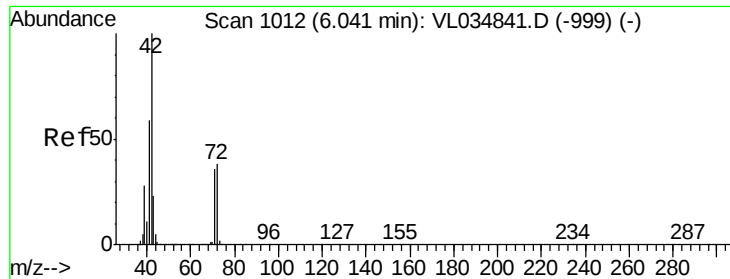
Delta R.T. 0.04 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion:	88	Resp:	11945
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





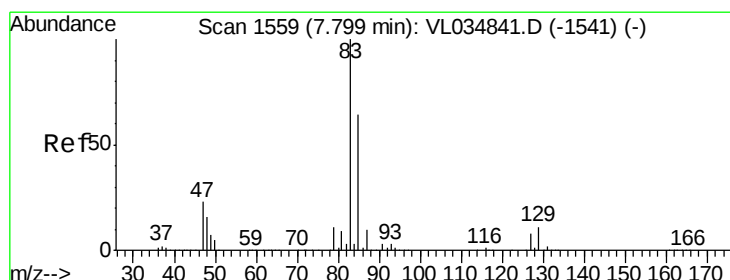
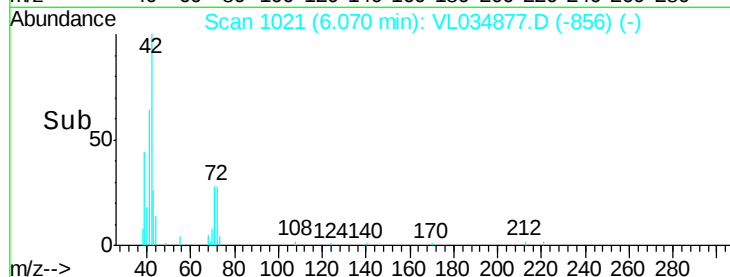
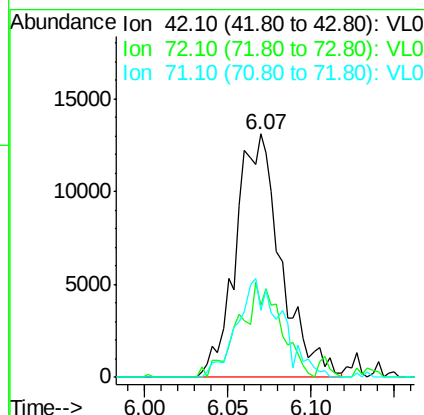
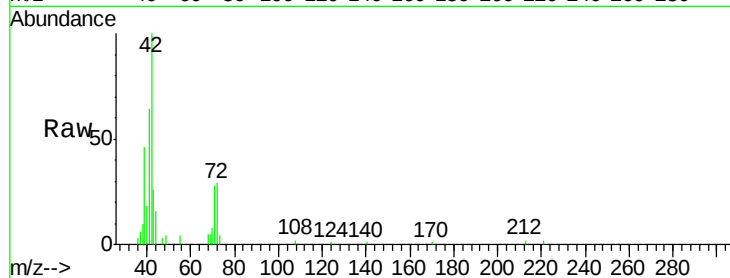
#41
Tetrahydrofuran
Concen: 0.355 ppbv m
RT: 6.07 min Scan# 1021
Delta R.T. 0.03 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

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

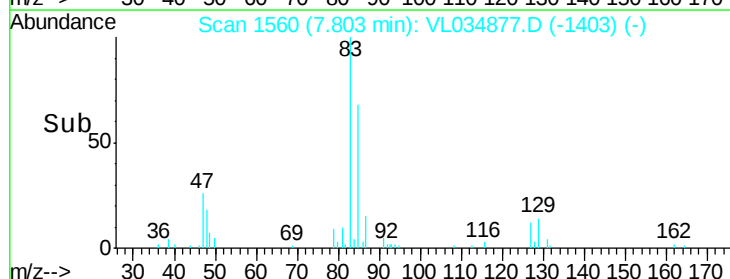
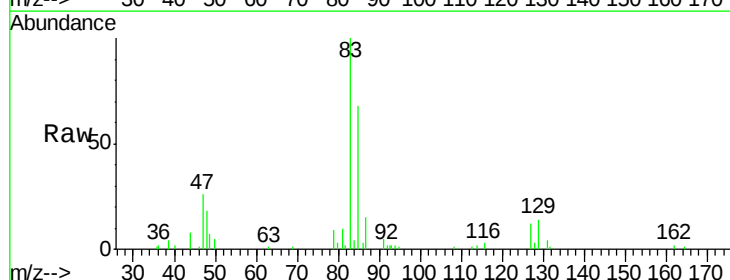
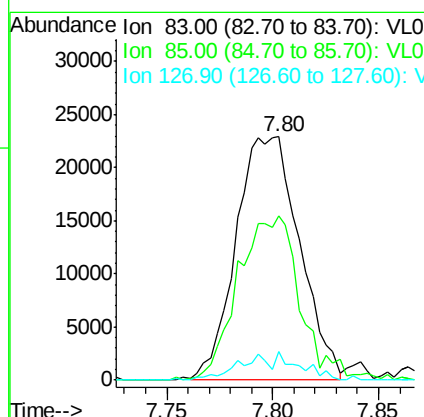
Manual Integrations
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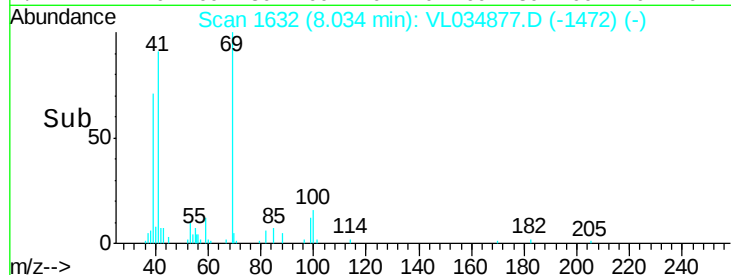
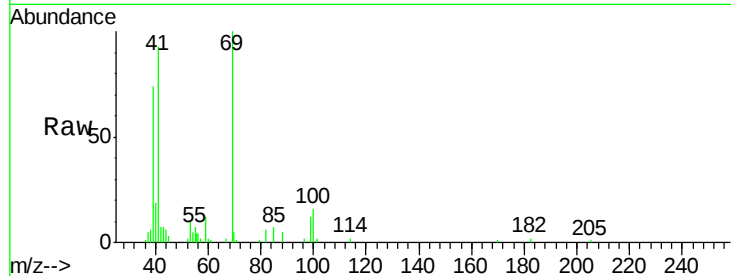
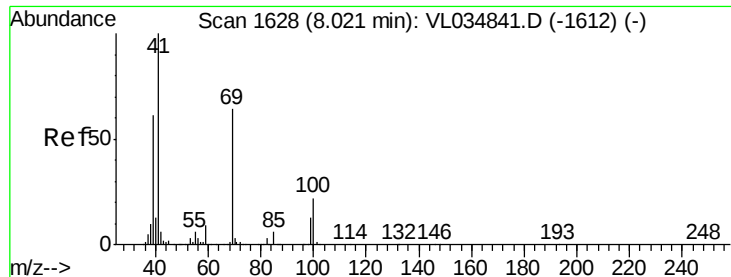
MMDadoda
3/11/2020 3:17:46 PM



#42
Bromodichloromethane
Concen: 0.359 ppbv m
RT: 7.80 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.5	51.4	77.2
127	11.6	6.2	9.4#





#43

Methyl Methacrylate

Concen: 0.326 ppbv

RT: 8.03 min Scan# 1632

Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

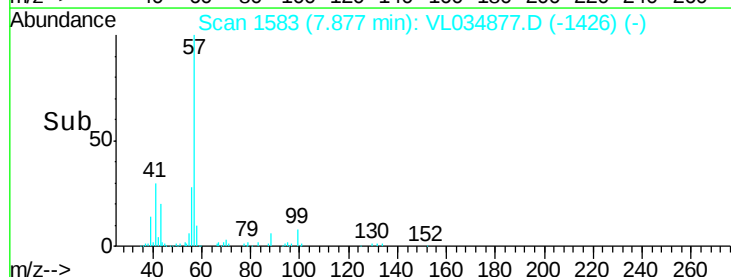
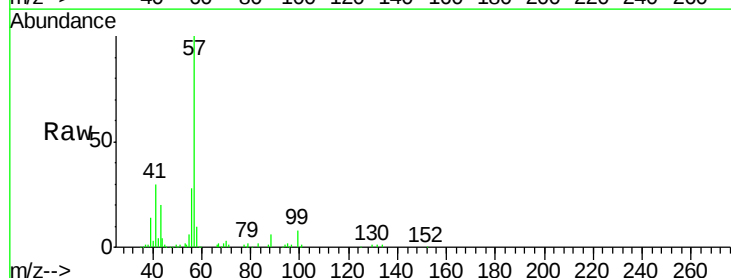
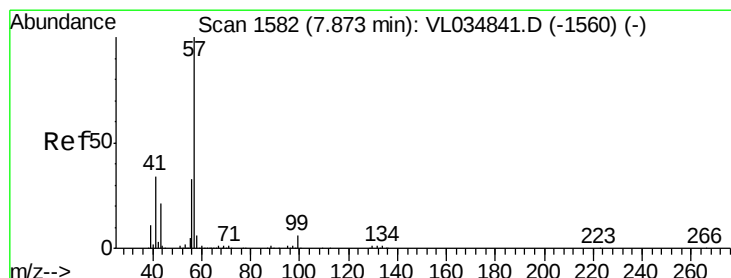
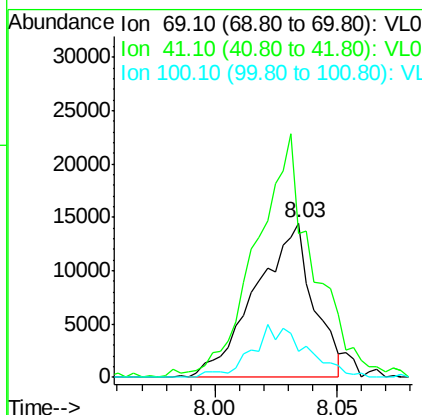
Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	160.1	123.2	184.8	
100	32.6	26.9	40.3	

Instrument :
MSVOA_L

ClientSampleId :
MDL-AIR-01-QT1-2020

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 0.381 ppbv

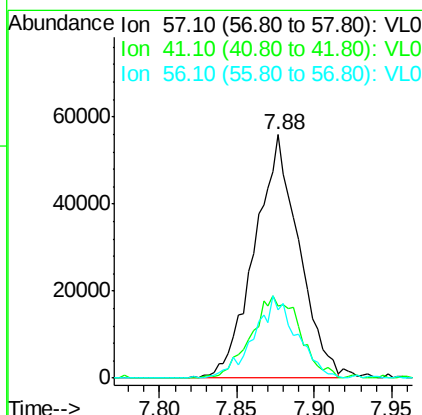
RT: 7.88 min Scan# 1583

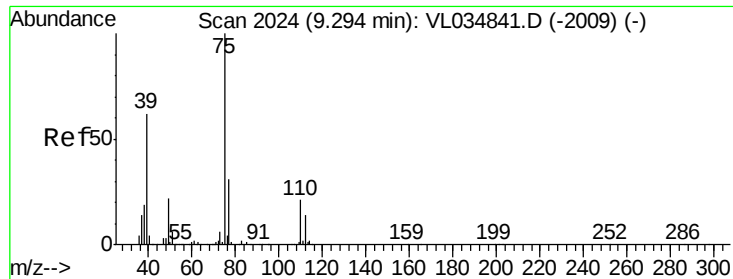
Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	37.4	26.2	39.4	
56	32.8	25.0	37.4	





#45

t-1,3-Dichloropropene

Concen: 0.239 ppbv

RT: 9.29 min Scan# 2024

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 75 Resp: 20460

Ion Ratio Lower Upper

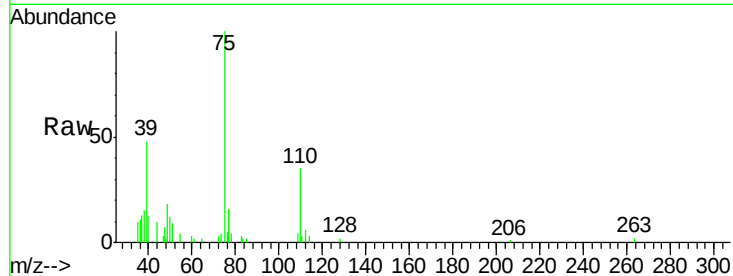
75 100

77 16.4 24.6 37.0#

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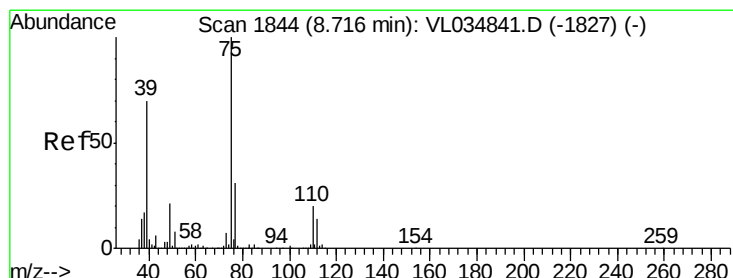
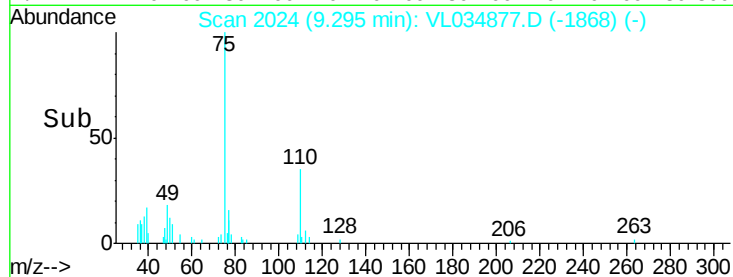
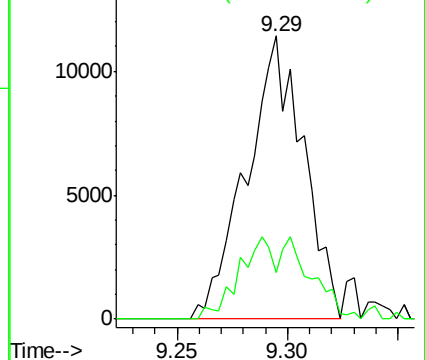
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.273 ppbv m

RT: 8.72 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

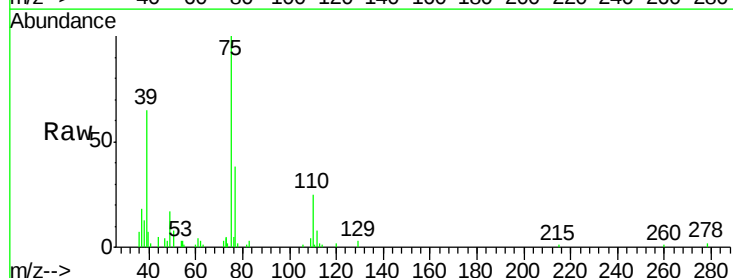
Tgt Ion: 75 Resp: 27785

Ion Ratio Lower Upper

75 100

39 65.2 55.7 83.5

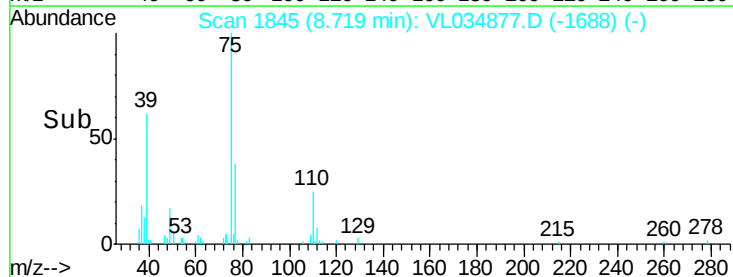
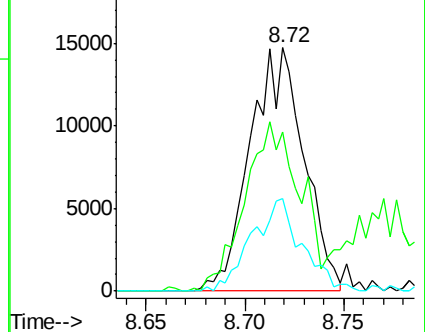
77 37.9 24.7 37.1#

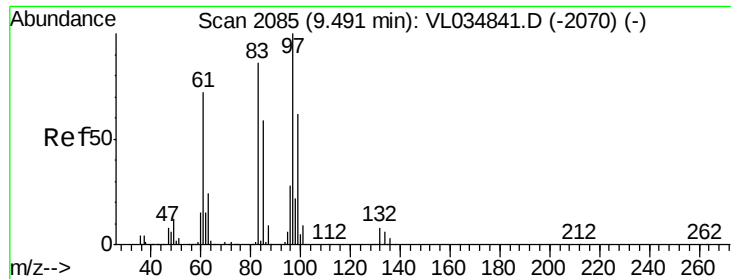


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 0.439 ppbv

RT: 9.49 min Scan# 2084

Delta R.T. -0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

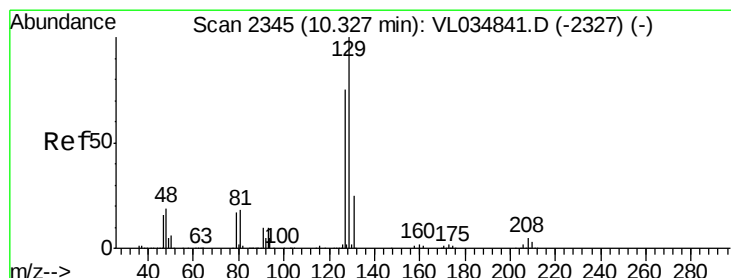
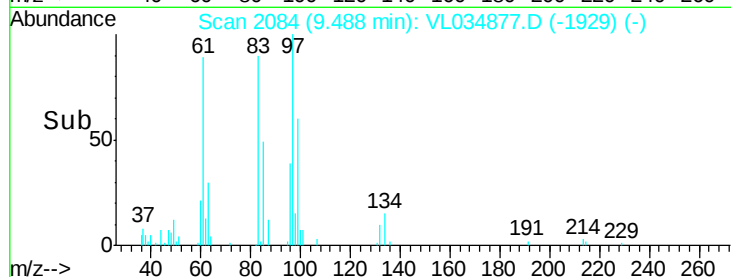
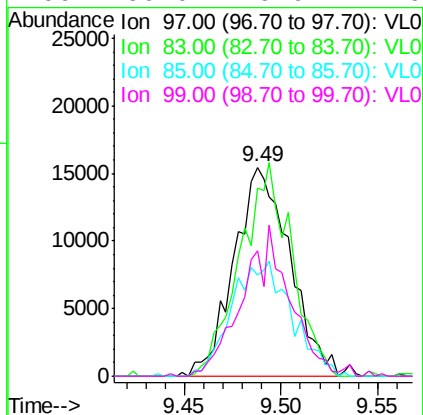
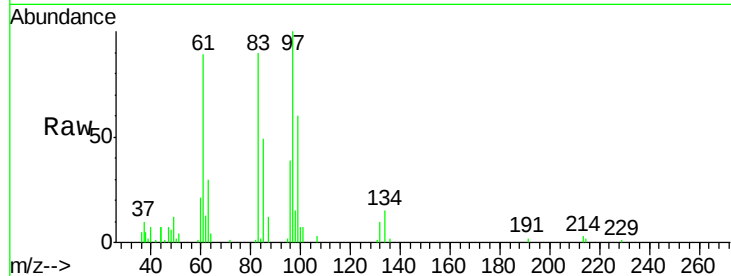
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	97	Resp:	30862
Ion Ratio	Lower	Upper	
97	100		
83	90.3	68.6	102.8
85	48.6	46.9	70.3
99	60.0	49.9	74.9

Manual Integrations
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#48

Dibromochloromethane

Concen: 0.300 ppbv m

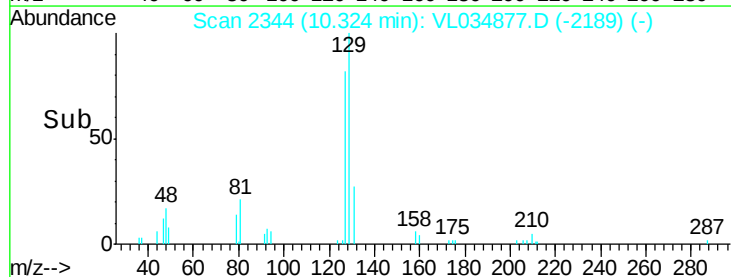
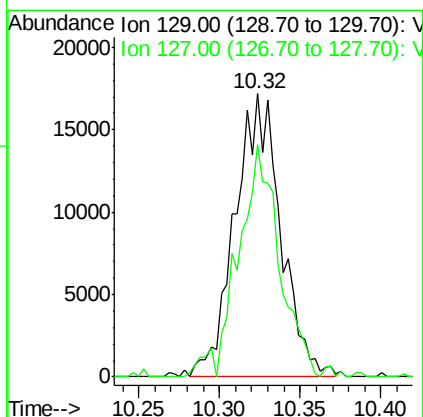
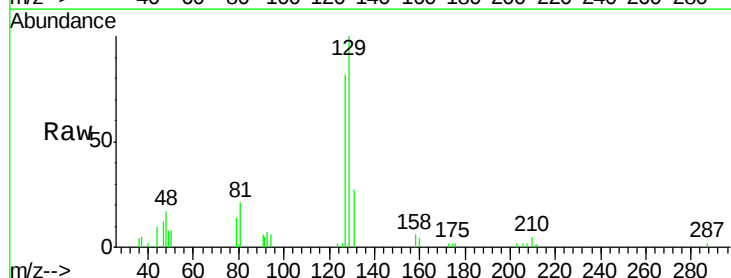
RT: 10.32 min Scan# 2344

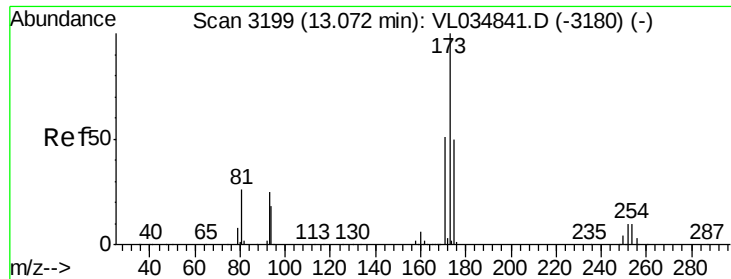
Delta R.T. -0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion:	129	Resp:	34104
Ion Ratio	Lower	Upper	
129	100		
127	0.0	39.6	118.7#





#49

Bromoform

Concen: 0.245 ppbv m

RT: 13.07 min Scan# 3197

Delta R.T. -0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

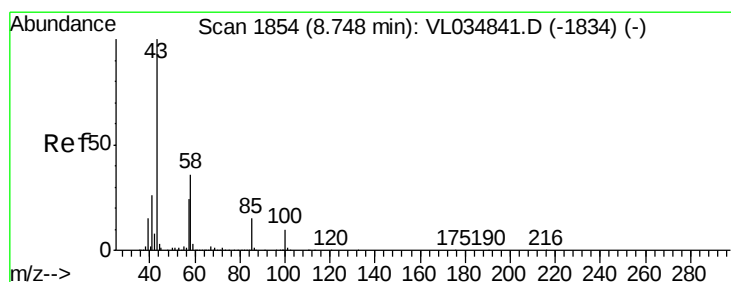
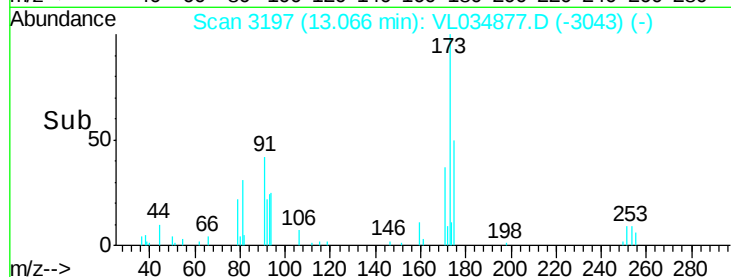
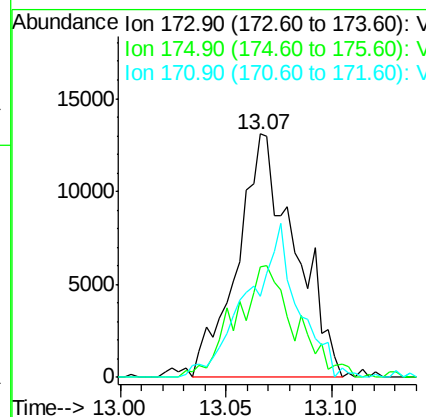
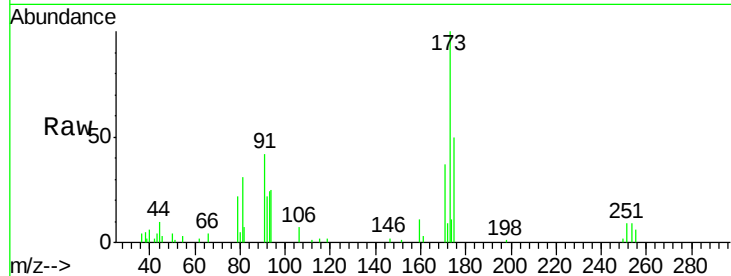
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.6	59.4#
171	55.7	41.0	61.6

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.369 ppbv m

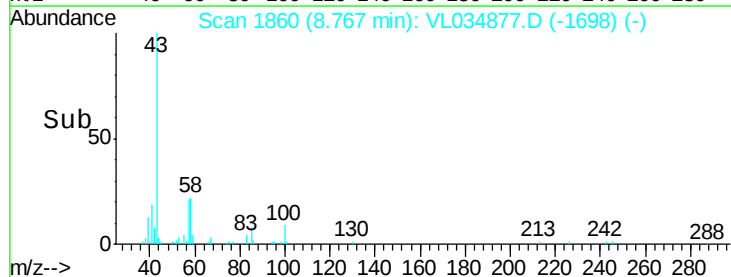
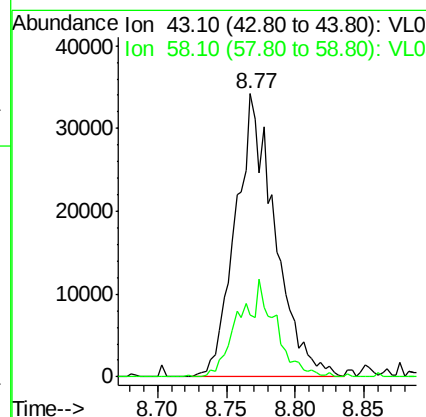
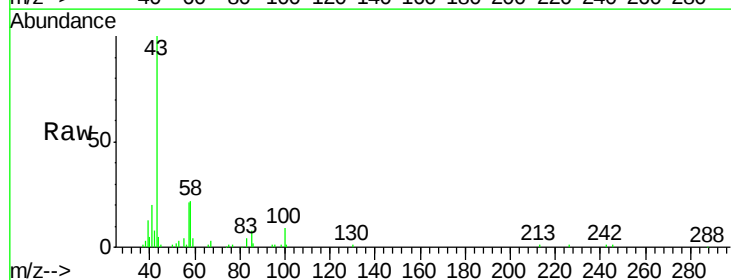
RT: 8.77 min Scan# 1860

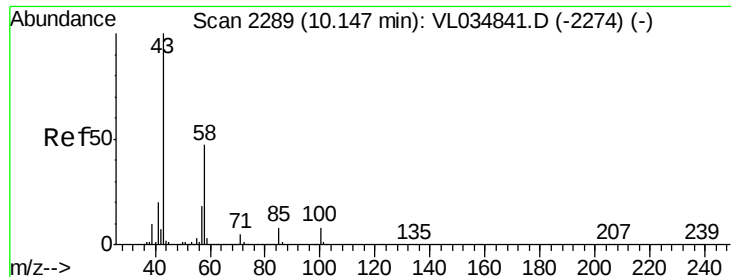
Delta R.T. 0.02 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	42.8#





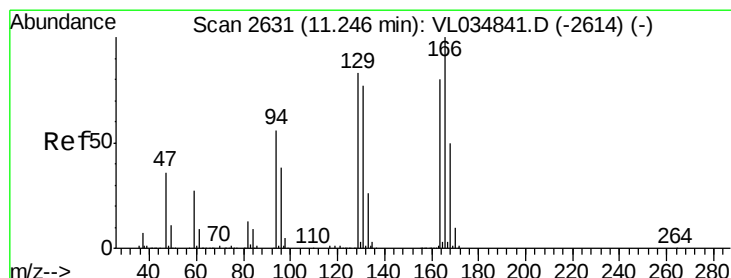
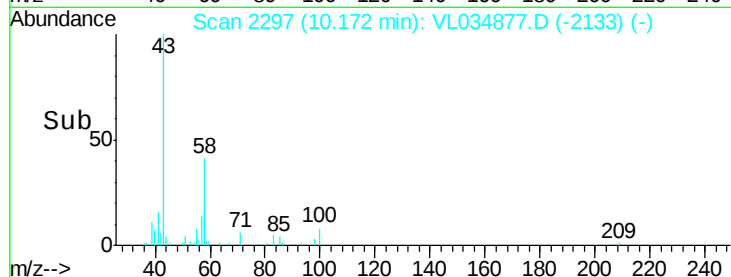
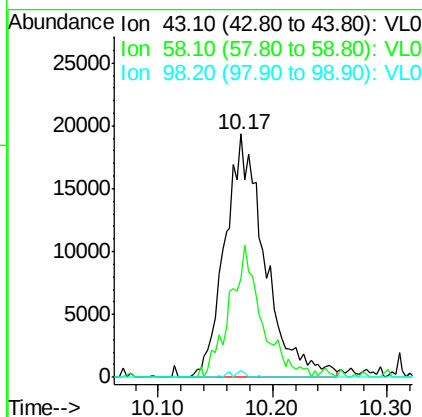
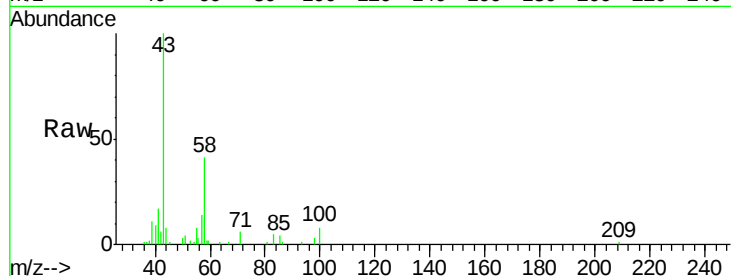
#51
2-Hexanone
Concen: 0.311 ppbv m
RT: 10.17 min Scan# 2297
Delta R.T. 0.03 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.6	58.0#
98	0.9	0.1	0.1#

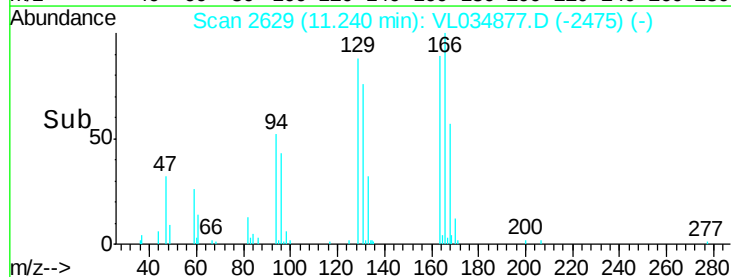
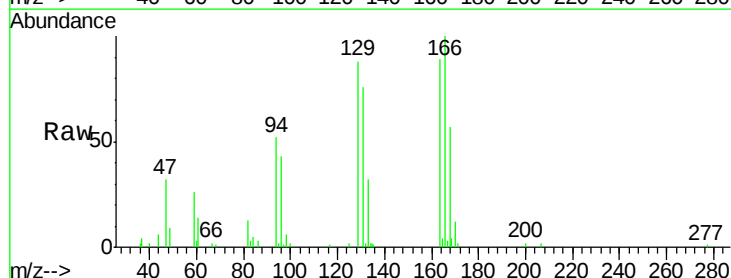
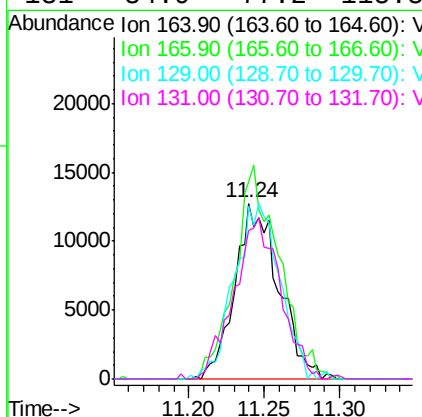
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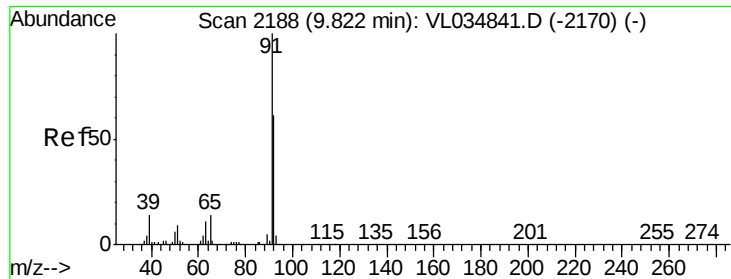
MMDadoda
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#52
Tetrachloroethene
Concen: 0.376 ppbv m
RT: 11.24 min Scan# 2629
Delta R.T. -0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	112.2	100.0	150.0
129	98.7	83.1	124.7
131	84.9	77.2	115.8





#53

Toluene

Concen: 0.319 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 91 Resp: 63590

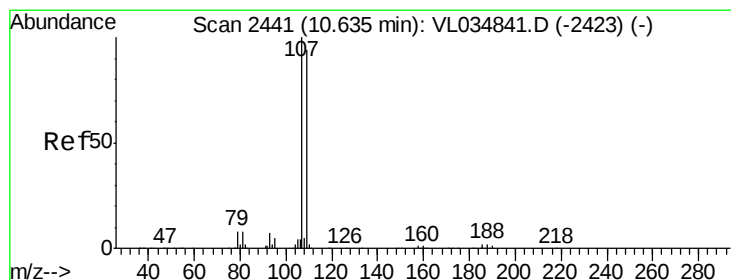
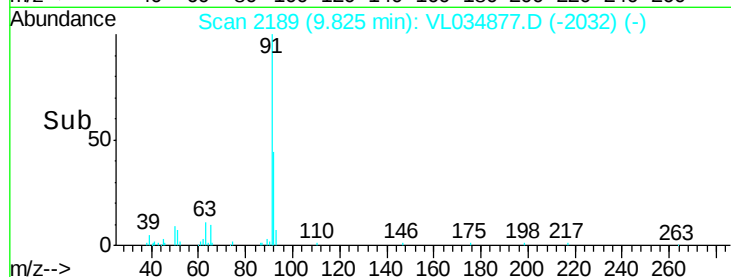
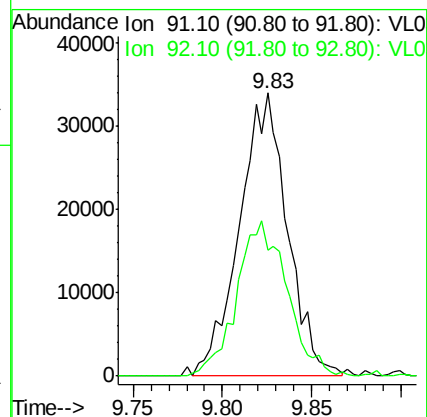
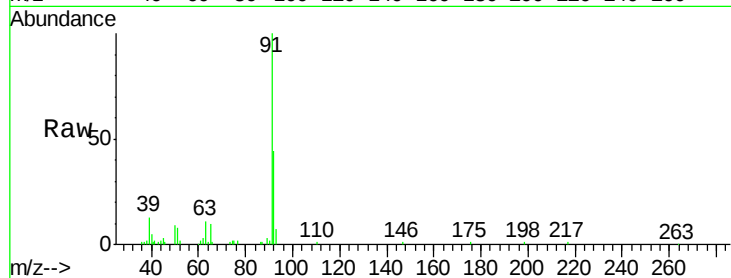
Ion Ratio Lower Upper

91 100

92 57.4 48.6 72.8

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 0.383 ppbv m

RT: 10.63 min Scan# 2438

Delta R.T. -0.01 min

Lab File: VL034877.D

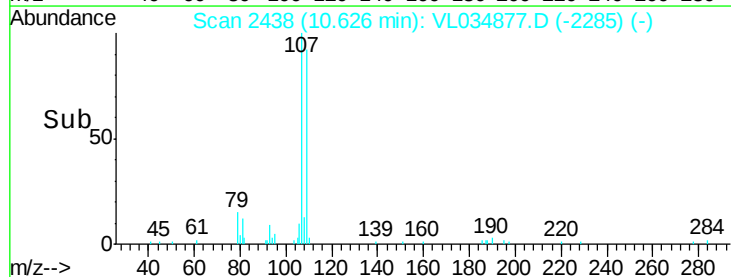
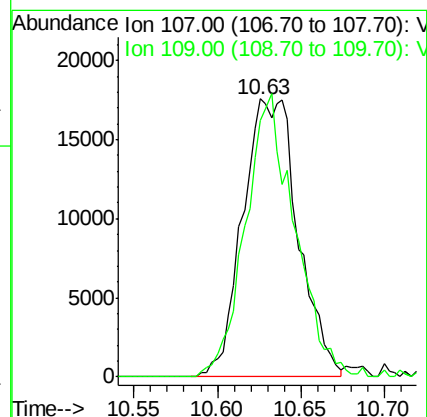
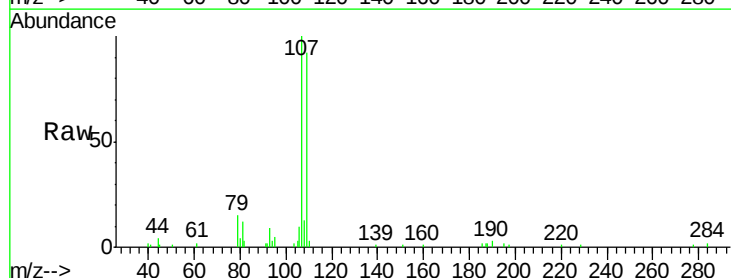
Acq: 10 Mar 2020 22:12

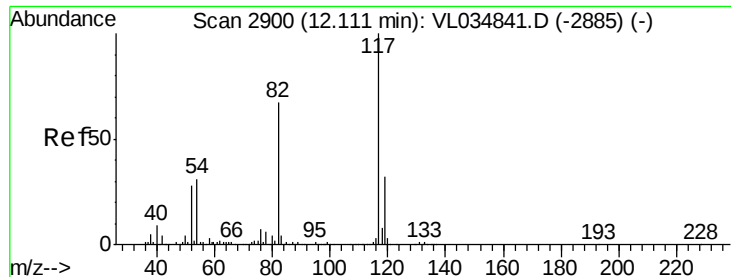
Tgt Ion: 107 Resp: 40542

Ion Ratio Lower Upper

107 100

109 92.2 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: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:117 Resp: 1893219

Ion Ratio Lower Upper

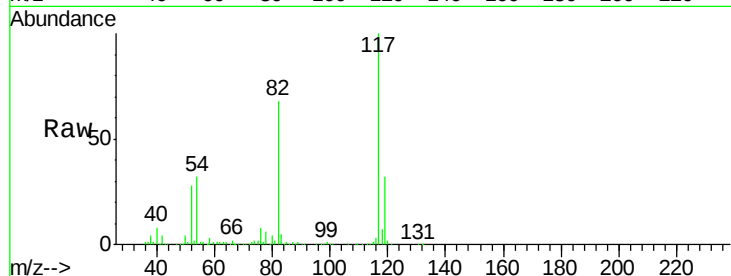
117 100

82 68.5 51.1 76.7

119 33.9 27.3 40.9

Manual Integrations
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

1200000

1000000

800000

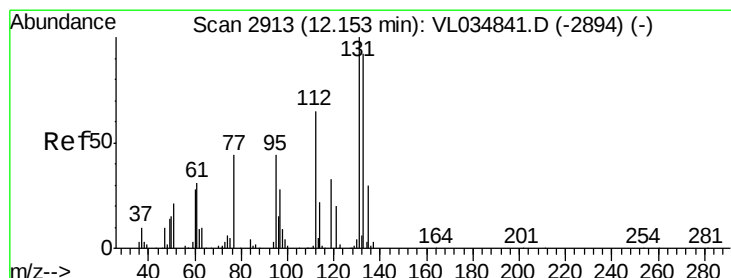
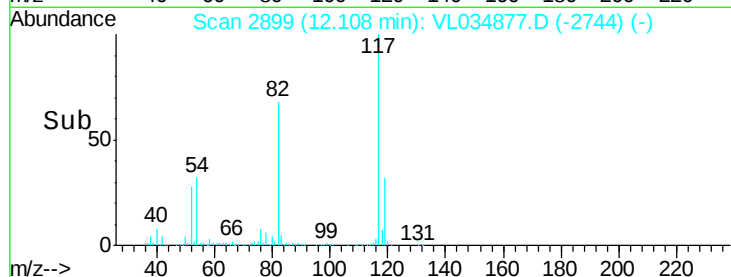
600000

400000

200000

0

Time-->



#56

1,1,1,2-Tetrachloroethane

Concen: 0.391 ppbv m

RT: 12.15 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

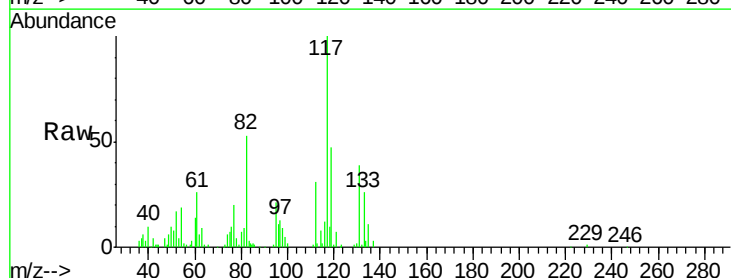
Tgt Ion:131 Resp: 33283

Ion Ratio Lower Upper

131 100

133 92.4 76.0 114.0

119 1929.0 47.8 71.8#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

400000

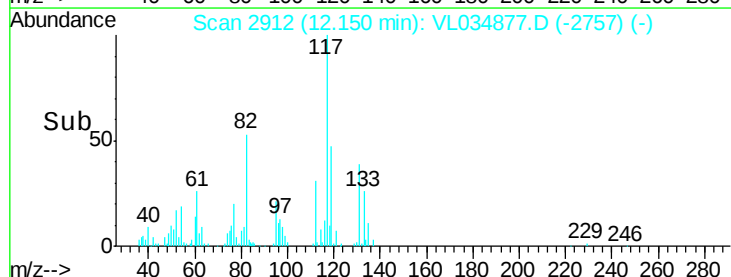
300000

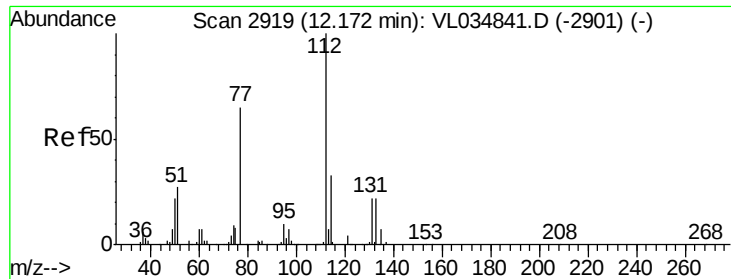
200000

100000

0

Time-->





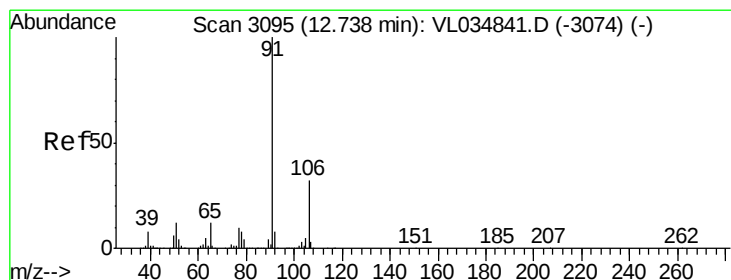
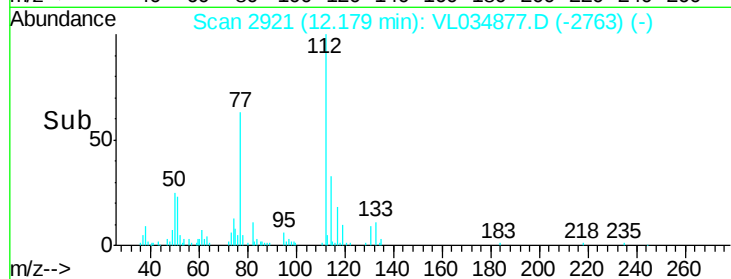
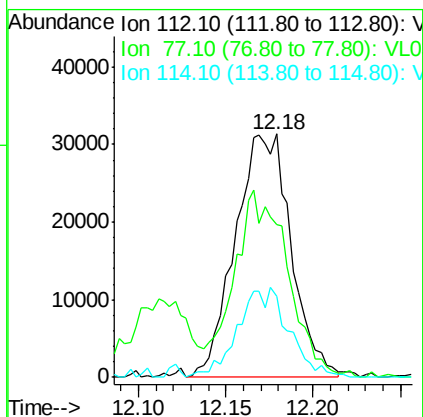
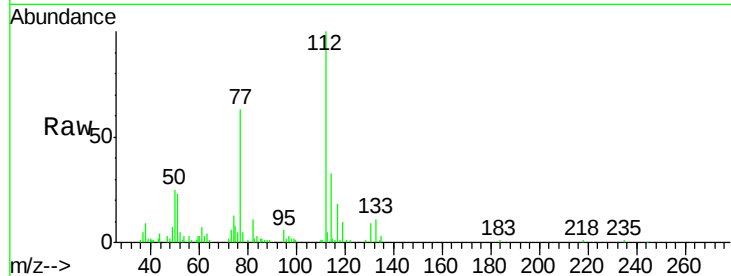
#57
Chlorobenzene
Concen: 0.470 ppbv m
RT: 12.18 min Scan# 2921
Delta R.T. 0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
112	100		
77	62.6	53.0	79.6
114	33.1	29.5	36.1

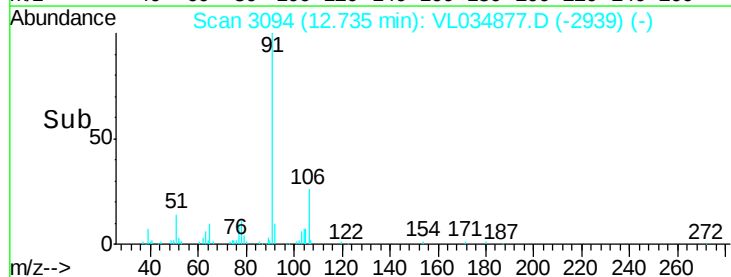
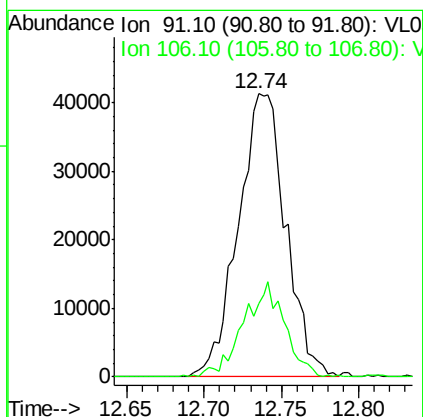
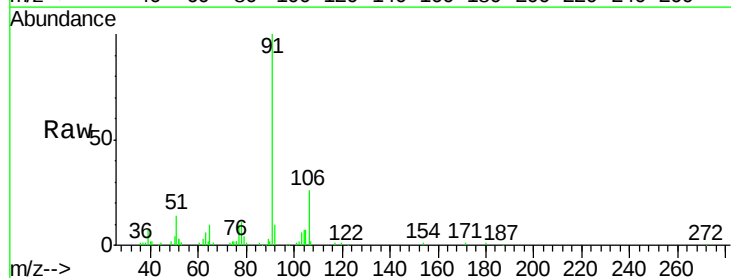
Manual Integrations
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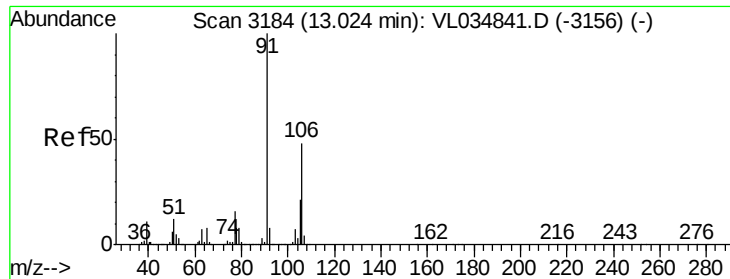
MMDadoda
3/11/2020 3:17:46 PM



#58
Ethyl Benzene
Concen: 0.344 ppbv
RT: 12.74 min Scan# 3094
Delta R.T. -0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.1	25.8	38.6





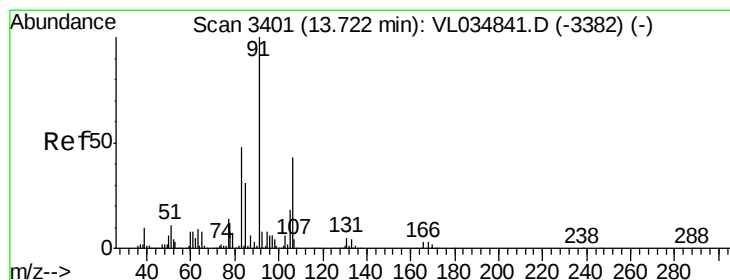
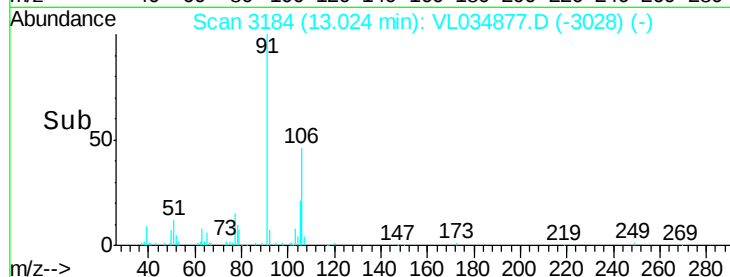
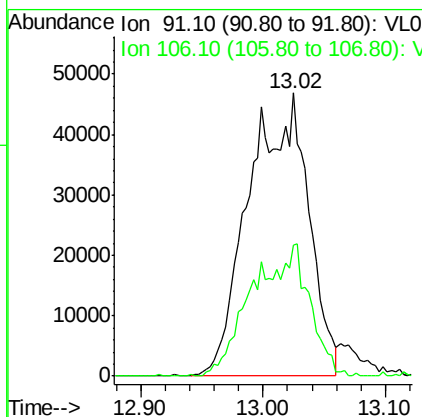
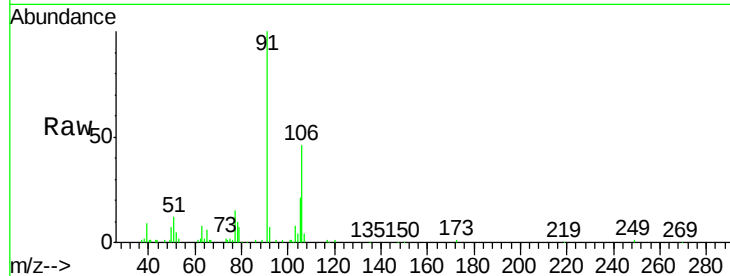
#59
m/p-Xylene
Concen: 0.733 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion: 91 Resp: 157410
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#

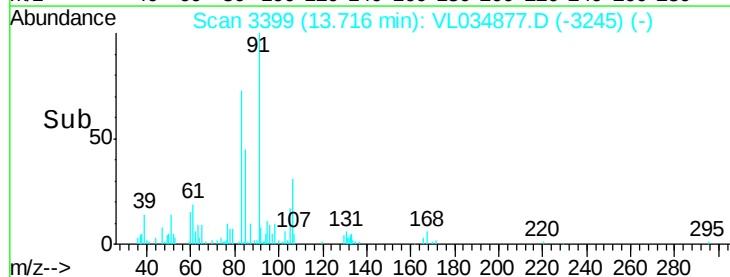
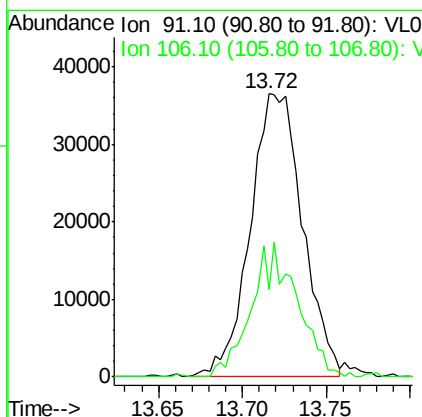
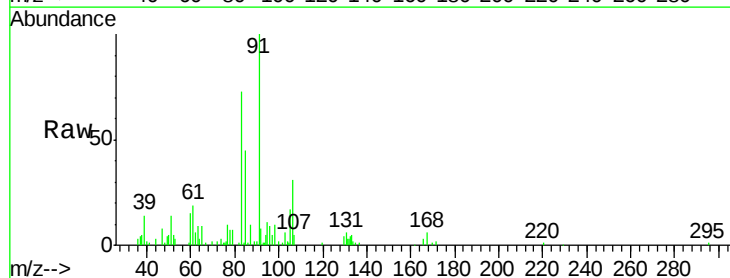
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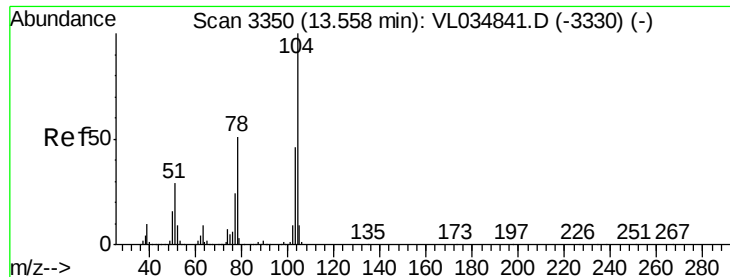
MMDadoda
3/11/2020 3:17:46 PM



#60
o-Xylene
Concen: 0.378 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion: 91 Resp: 79210
Ion Ratio Lower Upper
91 100
106 42.0 22.5 67.5





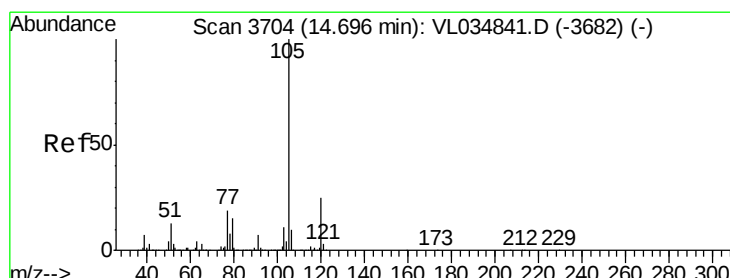
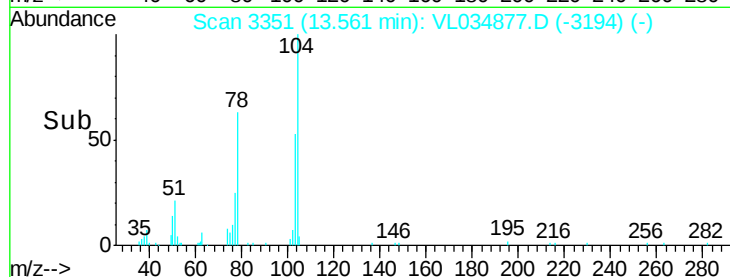
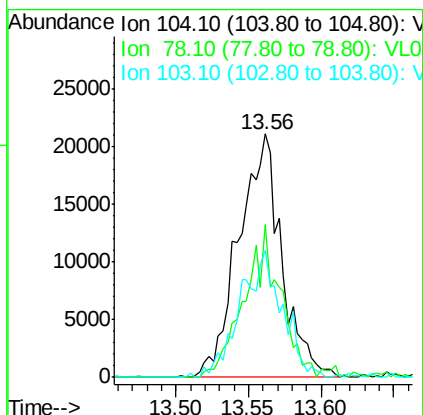
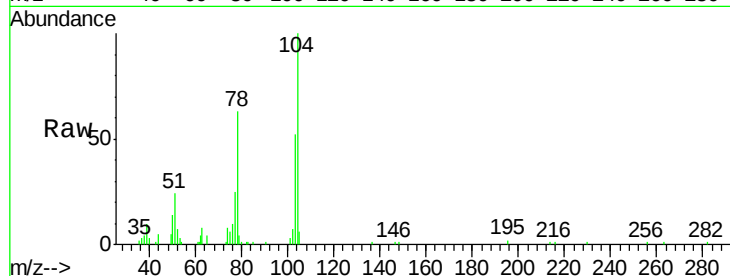
#61
Stvrene
Concen: 0.294 ppbv m
RT: 13.56 min Scan# 3351
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	41.8	62.6#
103	0.0	37.8	56.6#

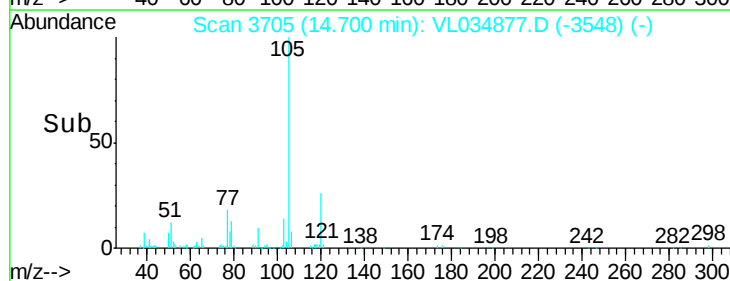
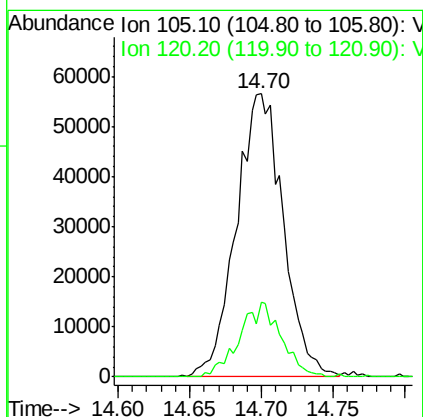
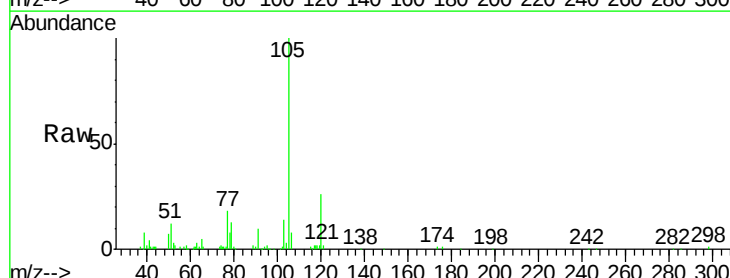
Manual Integrations
APPROVED

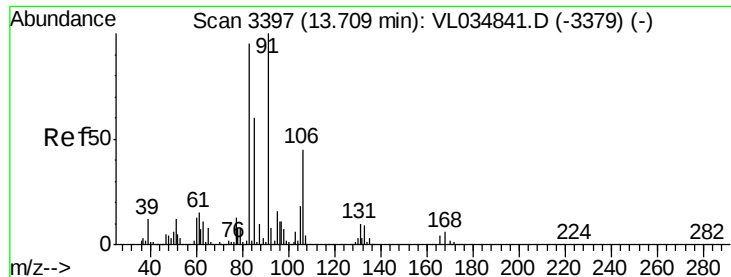
MMDadoda
3/11/2020 3:17:46 PM



#62
Isopropylbenzene
Concen: 0.406 ppbv m
RT: 14.70 min Scan# 3705
Delta R.T. 0.00 min
Lab File: VL034877.D
Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.5	21.0	31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 0.474 ppbv m

RT: 13.70 min Scan# 3395

Delta R.T. -0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

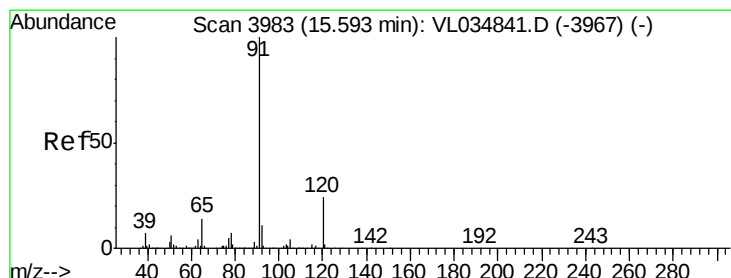
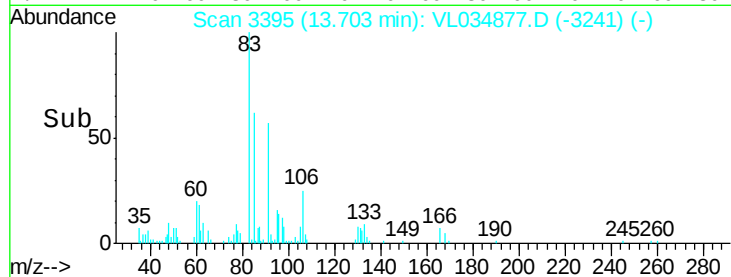
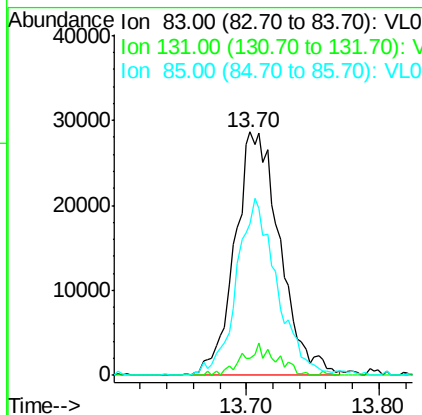
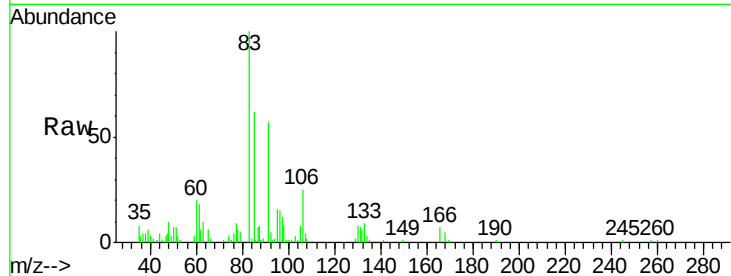
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	83	Resp:	67500
Ion Ratio	Lower	Upper	
83	100		
131	9.7	5.0	14.9
85	66.0	32.4	97.2

Manual Integrations
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#64

n-propylbenzene

Concen: 0.341 ppbv

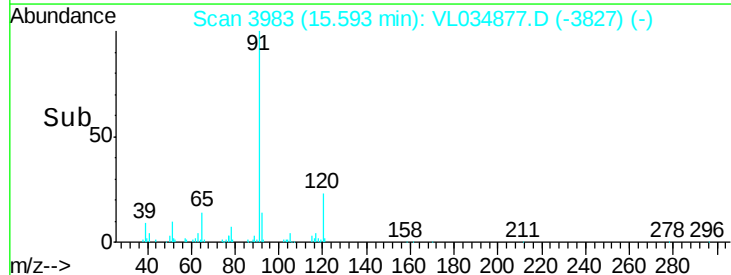
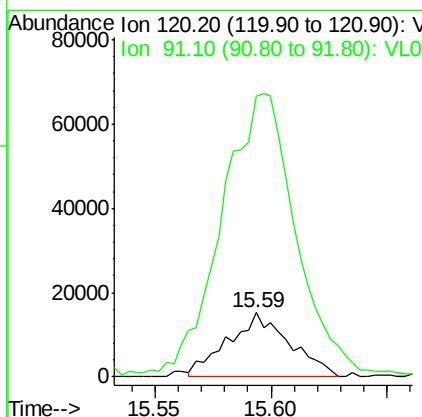
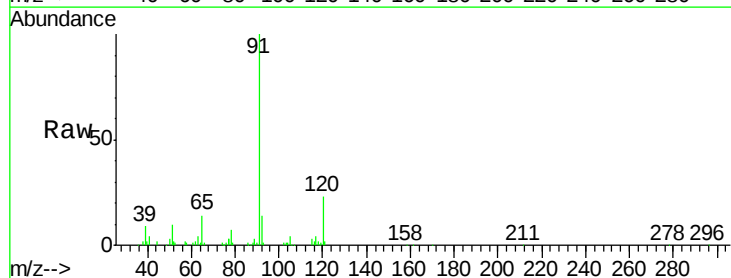
RT: 15.59 min Scan# 3983

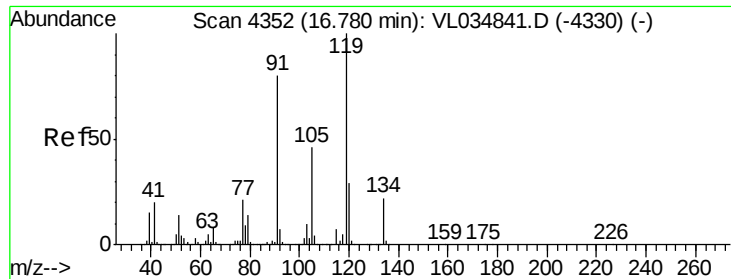
Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion:	120	Resp:	28106
Ion Ratio	Lower	Upper	
120	100		
91	544.8	360.9	541.3#





#65

tert-Butylbenzene

Concen: 0.315 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

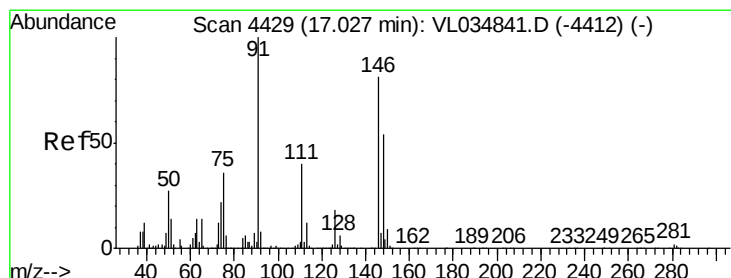
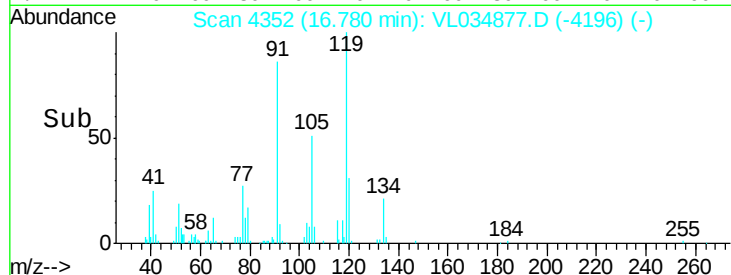
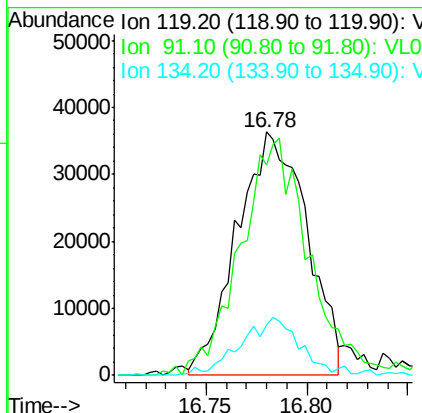
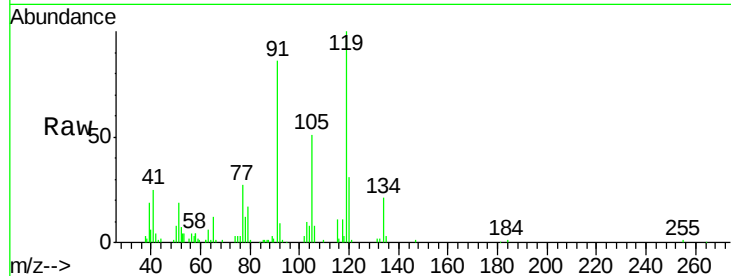
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	119	Resp:	87289
Ion Ratio	Lower	Upper	
119	100		
91	99.1	64.9	97.3#
134	21.1	15.9	23.9

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.234 ppbv m

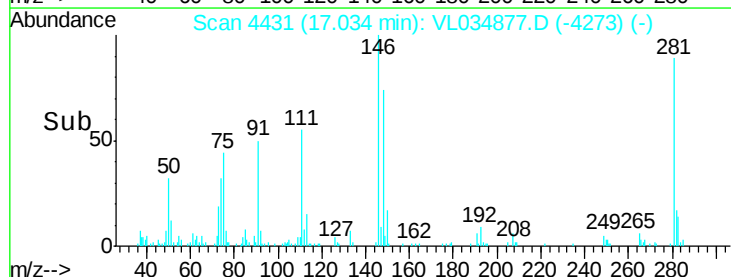
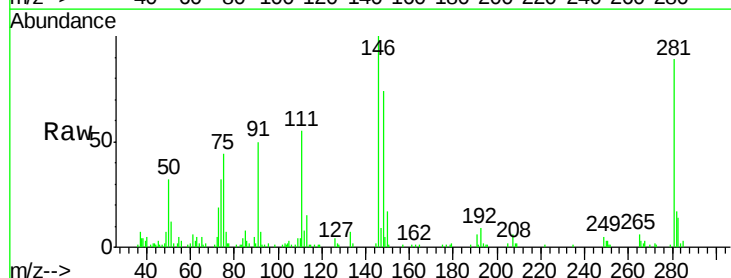
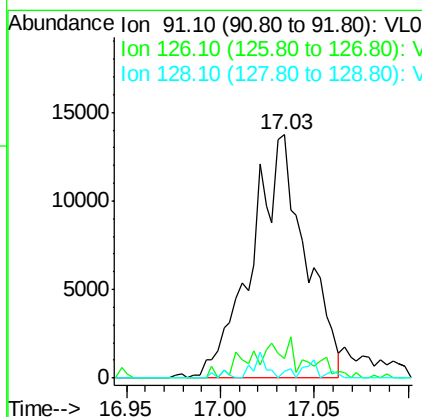
RT: 17.03 min Scan# 4431

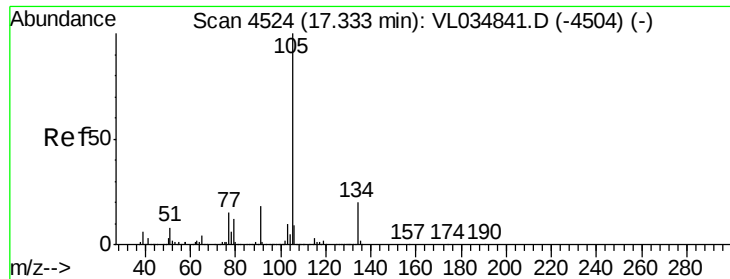
Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion:	91	Resp:	27078
Ion Ratio	Lower	Upper	
91	100		
126	0.0	14.7	22.1#
128	6.0	4.7	7.1





#67

sec-Butylbenzene

Concen: 0.356 ppbv m

RT: 17.33 min Scan# 4524

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion: 105 Resp: 136692

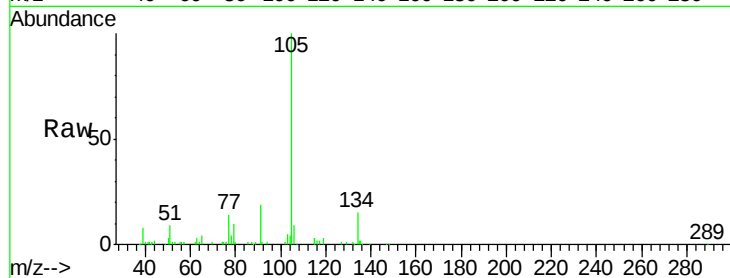
Ion Ratio Lower Upper

105 100

134 17.4 15.0 22.6

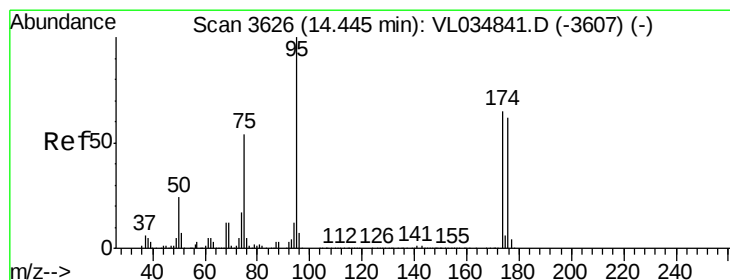
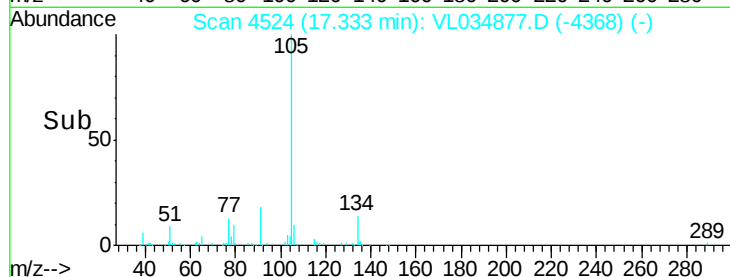
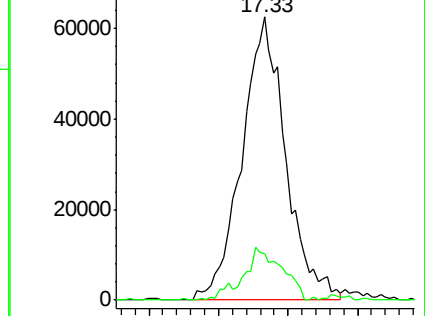
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.600 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

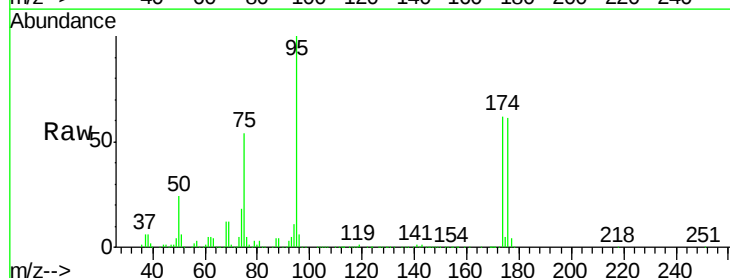
Tgt Ion: 95 Resp: 1564996

Ion Ratio Lower Upper

95 100

174 65.4 55.2 82.8

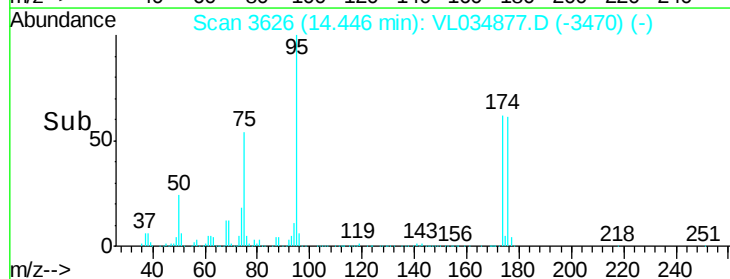
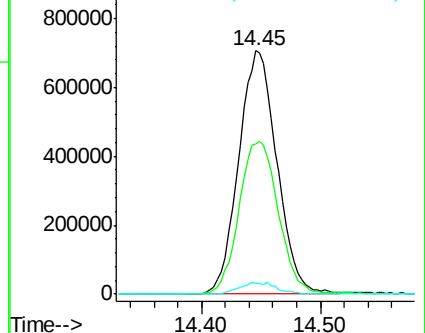
175 4.8 4.3 6.5

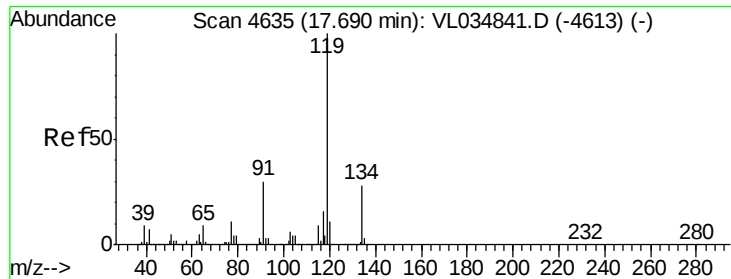


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





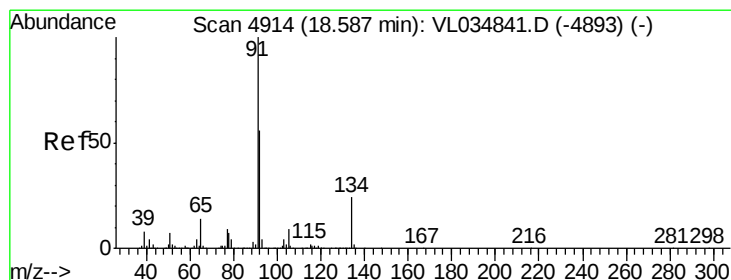
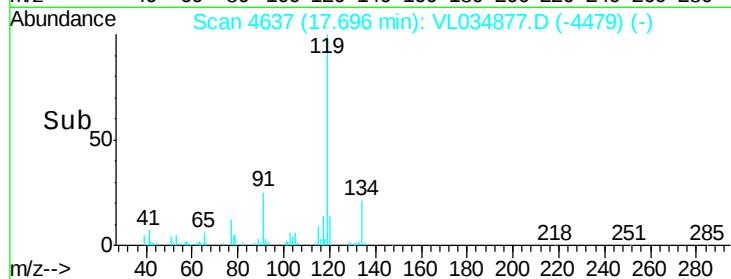
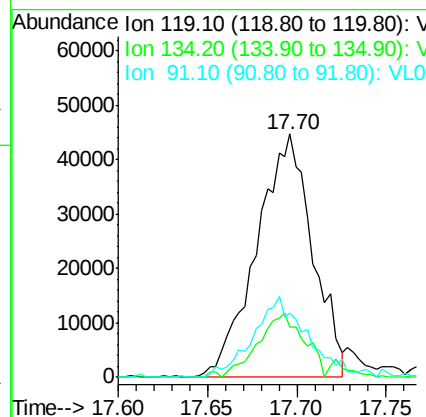
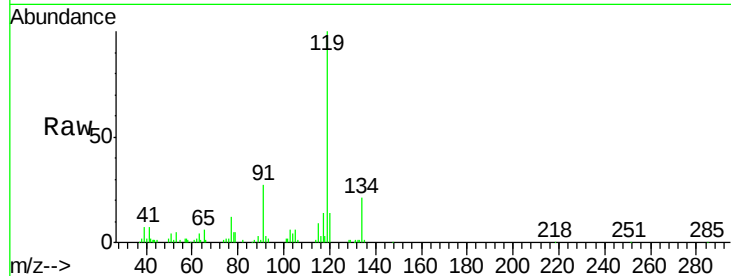
#69
 p-Isopropyltoluene
 Concen: 0.303 ppbv
 RT: 17.70 min Scan# 4637
 Delta R.T. 0.01 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

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

Tot Ion:	119	Resp:	97770
Ion Ratio	Lower	Upper	
119	100		
134	24.5	20.6	30.8
91	33.4	23.4	35.2

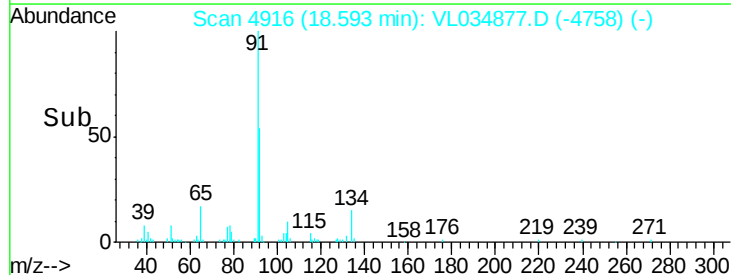
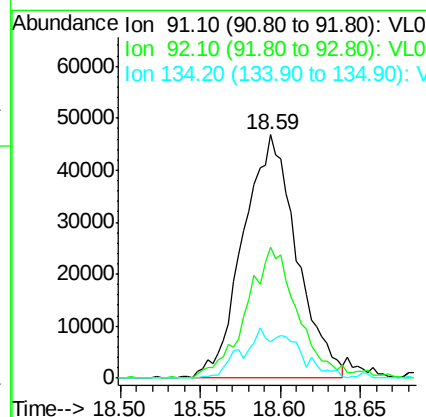
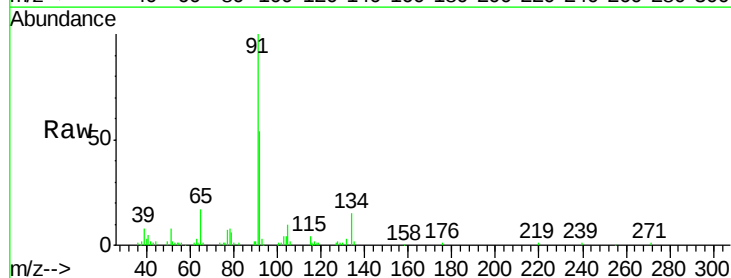
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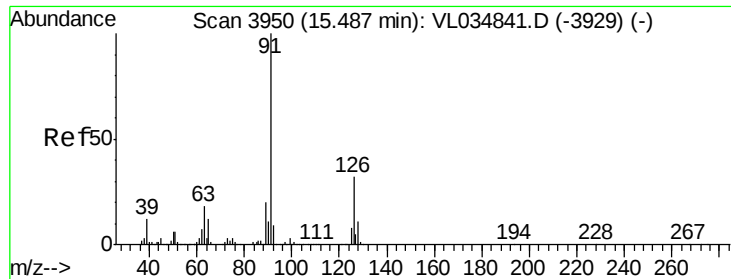
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#70
 n-Butylbenzene
 Concen: 0.327 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. 0.01 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

Tgt Ion:	91	Resp:	107614
Ion Ratio	Lower	Upper	
91	100		
92	52.6	43.8	65.6
134	21.2	19.0	28.4





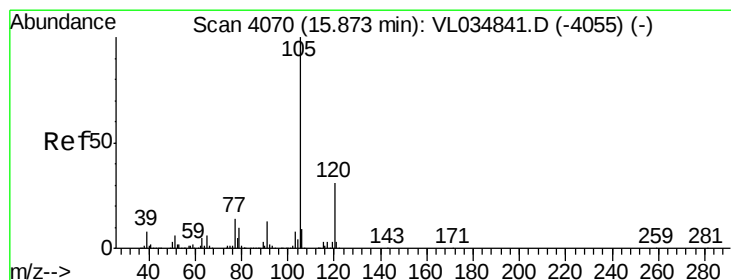
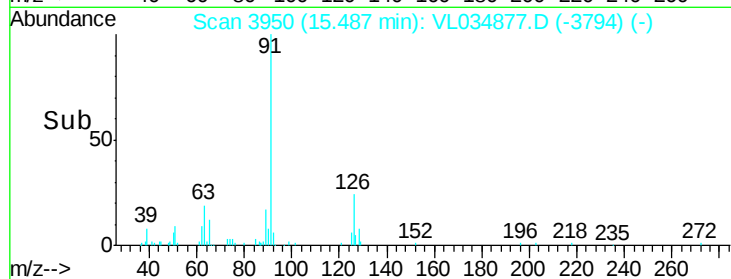
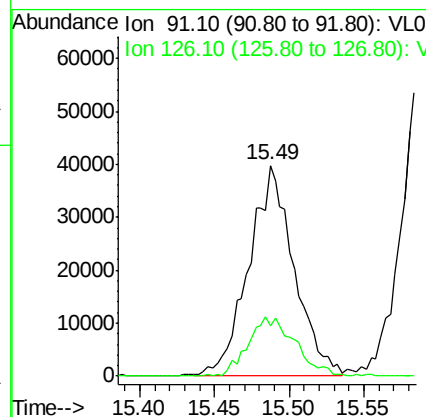
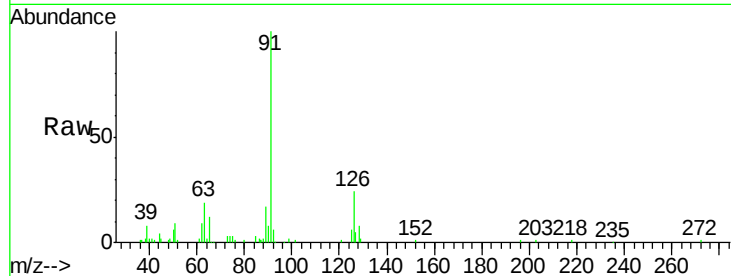
#71
 2-Chlorotoluene
 Concen: 0.350 ppbv m
 RT: 15.49 min Scan# 3950
 Delta R.T. 0.00 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
91	100		
126	29.2	12.3	49.1

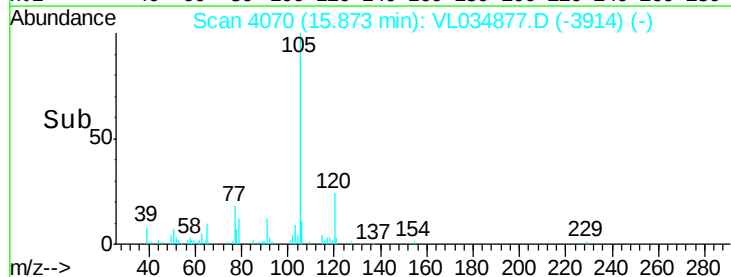
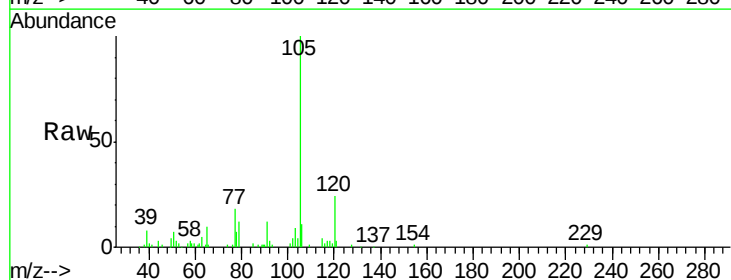
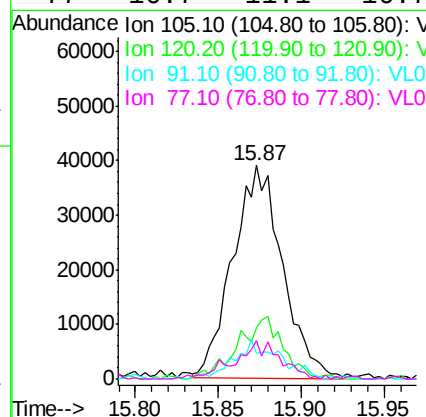
Manual Integrations
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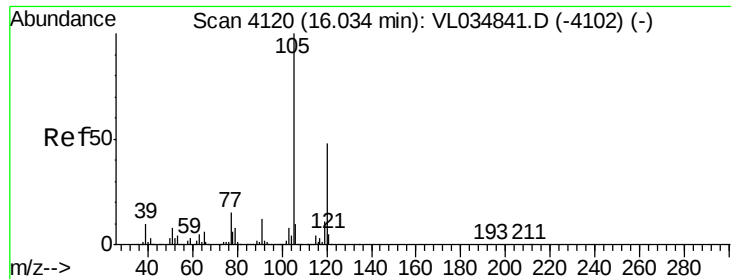
MMDadoda
 3/11/2020 3:17:46 PM



#72
 4-Ethyltoluene
 Concen: 0.327 ppbv
 RT: 15.87 min Scan# 4070
 Delta R.T. 0.00 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.9	23.7	35.5
91	17.1	10.5	15.7
77	16.7	11.1	16.7





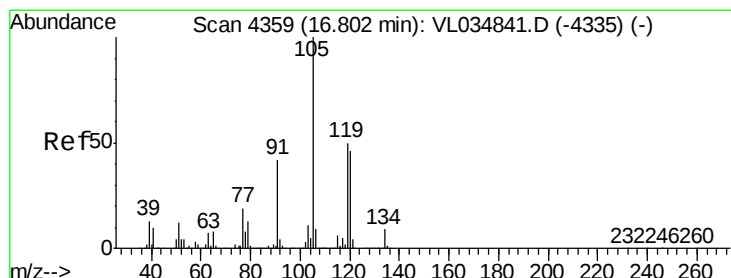
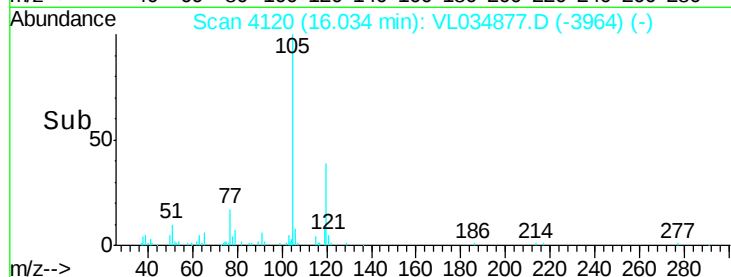
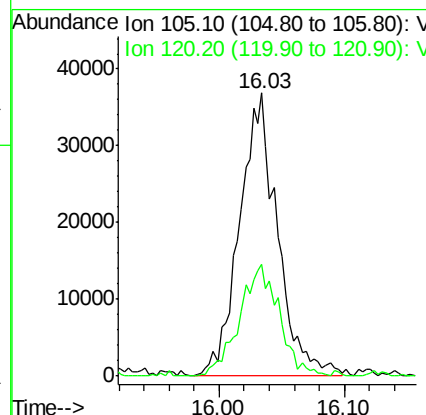
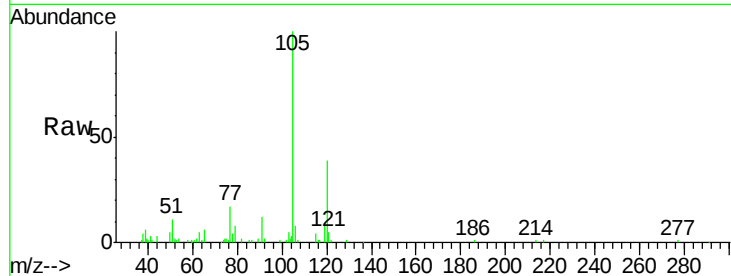
#73
 1,3,5-Trimethylbenzene
 Concen: 0.335 ppbv m
 RT: 16.03 min Scan# 4120
 Delta R.T. 0.00 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

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

Tot Ion	Ratio	Lower	Upper
105	100		
120	39.5	38.6	58.0

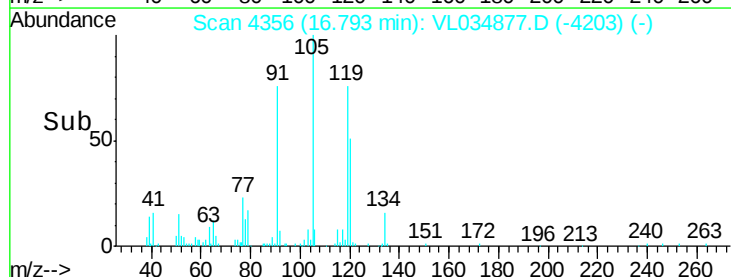
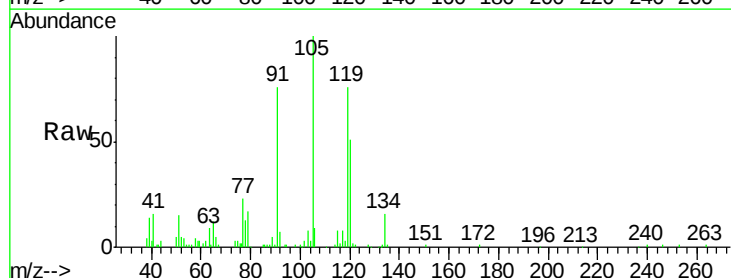
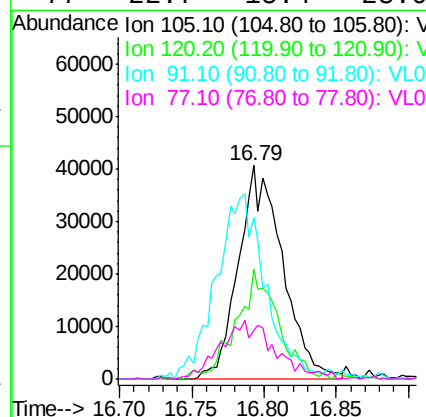
Manual Integrations
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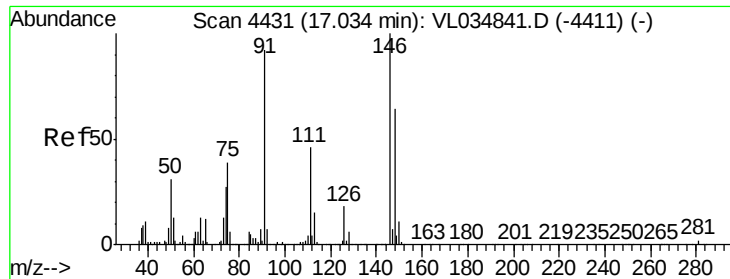
MMDadoda
 3/11/2020 3:17:46 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.362 ppbv m
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.01 min
 Lab File: VL034877.D
 Acq: 10 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.4	37.0	55.4
91	75.7	33.8	50.6
77	22.7	15.4	23.0





#75

1,3-Dichlorobenzene

Concen: 0.460 ppbv m

RT: 17.03 min Scan# 4431

Delta R.T. 0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

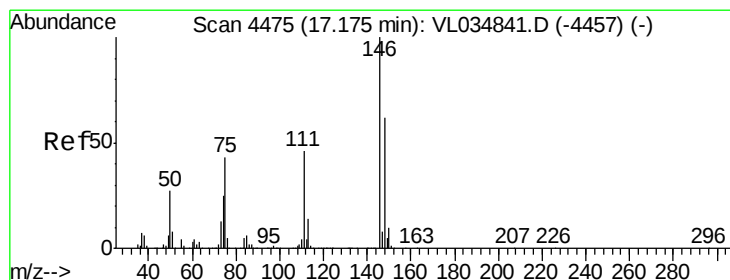
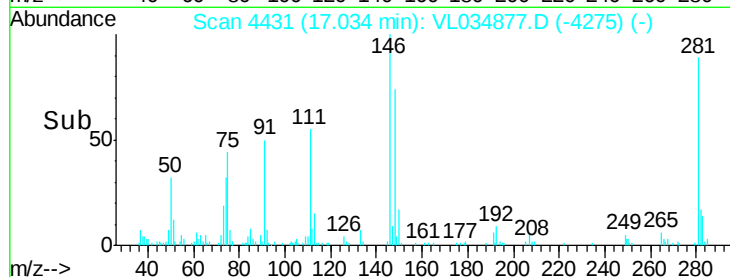
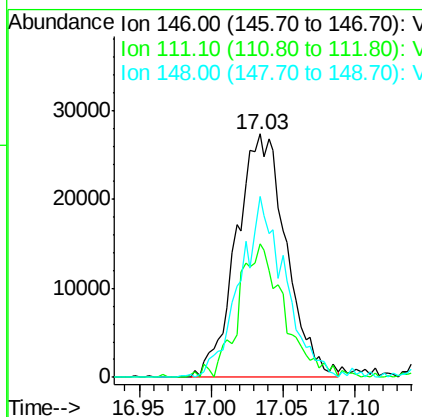
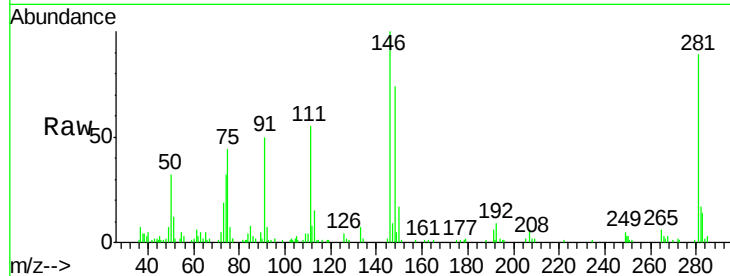
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	146	Resp:	66261
Ion Ratio	Lower	Upper	
146	100		
111	50.6	23.9	71.7
148	68.0	32.5	97.5

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 0.397 ppbv m

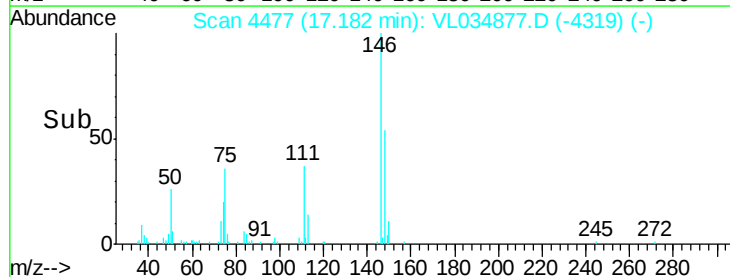
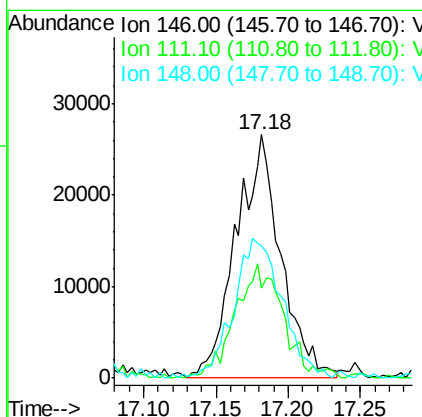
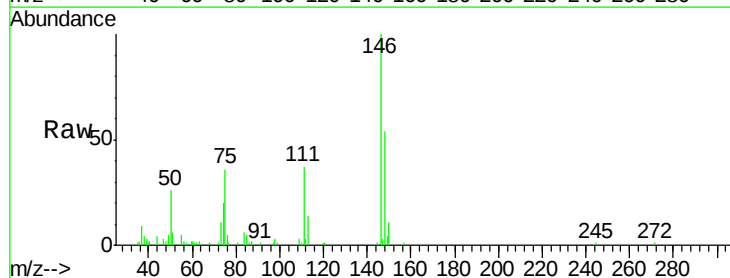
RT: 17.18 min Scan# 4477

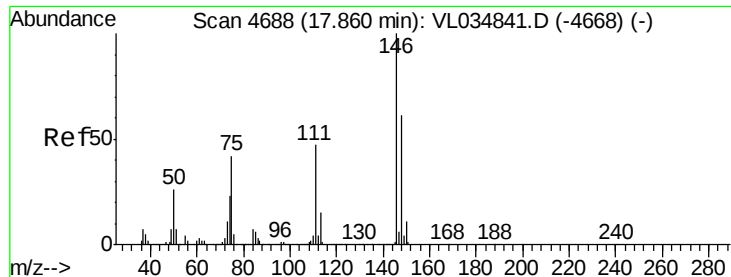
Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion:	146	Resp:	57097
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: 0.406 ppbv m

RT: 17.86 min Scan# 4687

Delta R.T. -0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:146 Resp: 56698

Ion Ratio Lower Upper

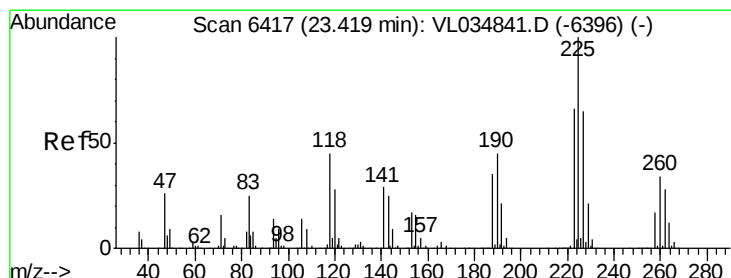
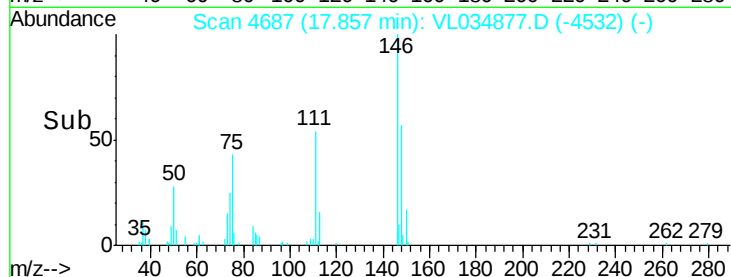
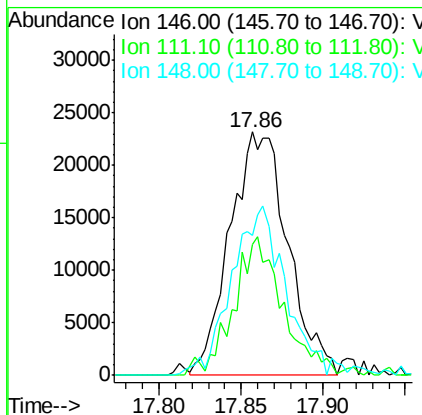
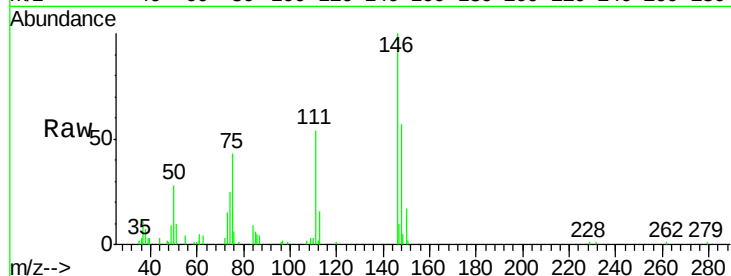
146 100

111 0.0 23.8 71.4#

148 0.0 31.6 94.8#

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:17:46 PM



#78

Hexachloro-1,3-Butadiene

Concen: 0.318 ppbv m

RT: 23.42 min Scan# 6416

Delta R.T. -0.00 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

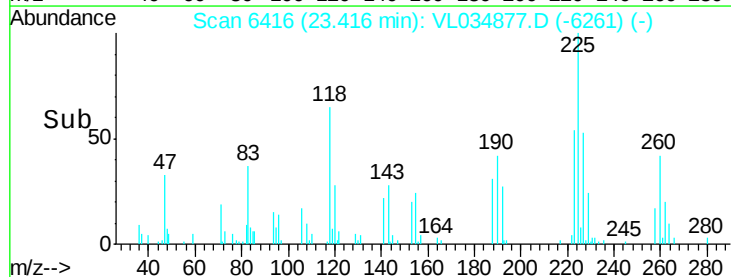
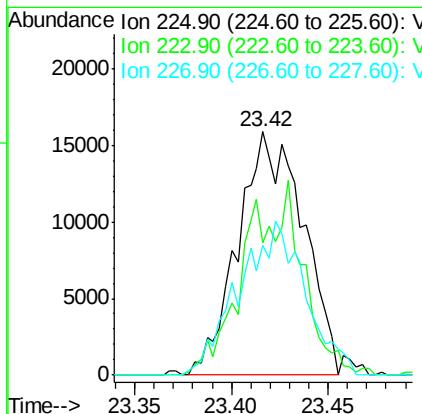
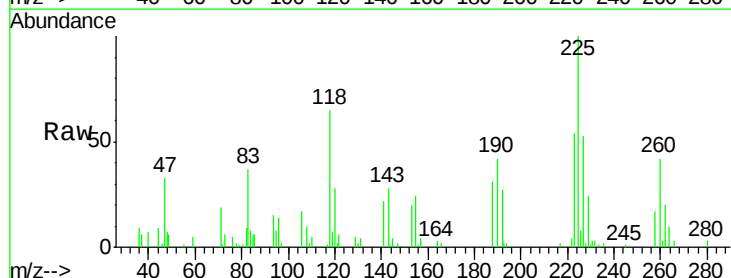
Tgt Ion:225 Resp: 37135

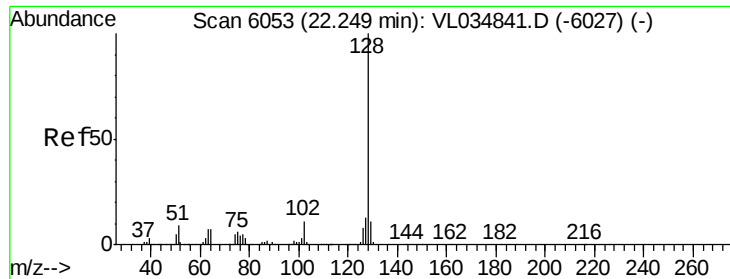
Ion Ratio Lower Upper

225 100

223 0.0 51.1 76.7#

227 0.0 51.8 77.6#





#79

Naphthalene

Concen: 0.184 ppbv m

RT: 22.27 min Scan# 6059

Delta R.T. 0.02 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Instrument :

MSVOA_L

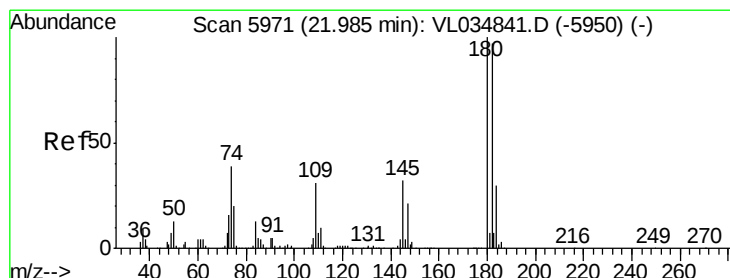
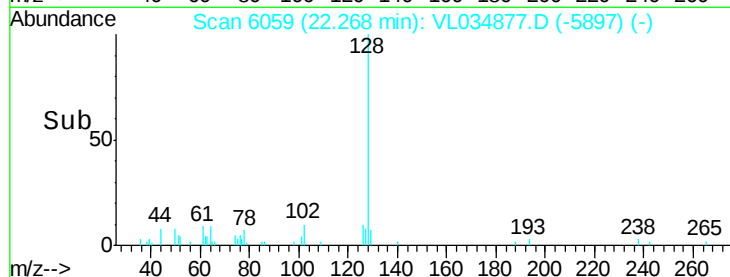
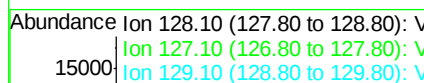
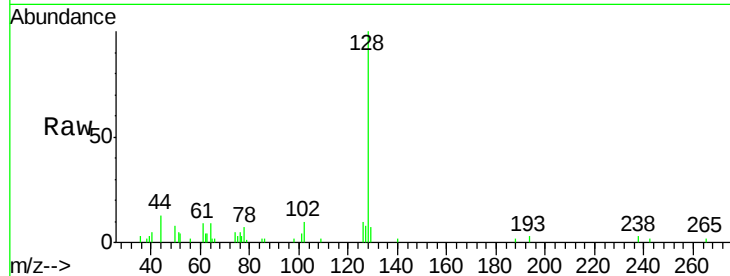
ClientSampleId :

MDL-AIR-01-QT1-2020

Tot Ion:	128	Resp:	34356
Ion Ratio	Lower	Upper	
128	100		
127	7.9	10.2	15.2#
129	7.0	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:17:46 PM



#81

1,2,4-Trichlorobenzene

Concen: 0.255 ppbv m

RT: 21.99 min Scan# 5973

Delta R.T. 0.01 min

Lab File: VL034877.D

Acq: 10 Mar 2020 22:12

Tgt Ion:	180	Resp:	30156
Ion Ratio	Lower	Upper	
180	100		
182	0.0	76.6	115.0#
184	0.0	25.0	37.4#

