

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050720\
 Data File : VL034979.D
 Acq On : 7 May 2020 22:32
 Operator : SY/AP
 Sample : L2182-15 0.4
 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 5:22:51 PM

Quant Time: May 08 15:14:23 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	5.66	49	1012222	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2361508	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2149003	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1817149	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	93885	0.654 ppbv	92
3) Chlorodifluoromethane	2.95	51	53517	0.463 ppbv	97
4) Chloromethane	3.10	50	29550	0.446 ppbv	100
5) Vinyl Chloride	3.22	62	29063	0.450 ppbv #	76
6) Bromomethane	3.44	94	17179	0.445 ppbv	94
7) Chloroethane	3.53	64	10923m	0.471 ppbv	
8) Dichlorotetrafluoroethane	3.15	85	76186	0.512 ppbv	100
9) Propene	2.97	41	19206	0.383 ppbv	94
10) Heptane	8.14	43	39756	0.316 ppbv	96
11) Trichlorofluoromethane	3.93	101	73391m	0.495 ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	52412	0.497 ppbv	96
13) Ethanol	3.59	45	8379m	0.506 ppbv	
14) Bromoethene	3.72	108	19543	0.448 ppbv #	97
15) Acetone	3.84	43	71941	0.538 ppbv	92
16) 1,3-Butadiene	3.29	39	23266m	0.404 ppbv	
17) tert-Butyl alcohol	4.29	59	47507m	0.399 ppbv	
18) 1,1-Dichloroethene	4.27	96	21352m	0.467 ppbv	
19) Isopropyl Alcohol	3.96	45	39812m	0.446 ppbv	
20) Methylene Chloride	4.32	84	24074	0.543 ppbv #	78
21) Allyl Chloride	4.40	41	31957	0.423 ppbv	94
22) trans-1,2-Dichloroethene	4.88	96	19408	0.428 ppbv #	87
23) Vinyl Acetate	5.07	43	59700m	0.352 ppbv	
24) 1,1-Dichloroethane	5.00	63	59209m	0.453 ppbv	
25) Ethyl Acetate	5.68	43	91365	0.406 ppbv	98
26) Hexane	5.68	57	35090	0.360 ppbv #	75
27) Carbon Disulfide	4.54	76	43380	0.378 ppbv #	80
28) Methyl tert-Butyl Ether	5.04	73	50528	0.340 ppbv	91
29) Chloroform	5.75	83	74214	0.465 ppbv	95
30) Cyclohexane	7.14	84	27324m	0.363 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	31950m	0.336 ppbv	
32) 1,1,1-Trichloroethane	6.52	97	62995	0.437 ppbv	97
34) 2-Butanone	5.25	43	49974	0.340 ppbv	94
35) Carbon Tetrachloride	7.03	117	63307m	0.425 ppbv	
36) Benzene	6.90	78	64788	0.333 ppbv	94
37) 1,2-Dichloroethane	6.31	62	54178	0.451 ppbv	97
38) Trichloroethene	7.85	130	27132m	0.360 ppbv	
39) 1,2-Dichloropropane	7.63	63	32050m	0.411 ppbv	
40) 1,4-Dioxane	7.88	88	11224m	0.354 ppbv	
41) Tetrahydrofuran	6.08	42	23344m	0.302 ppbv	
42) Bromodichloromethane	7.81	83	66287	0.409 ppbv #	85
43) Methyl Methacrylate	8.03	69	22776	0.277 ppbv	92

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	119233	0.344	ppbv #	93
45) t-1,3-Dichloropropene	9.30	75	20175m	0.243	ppbv	
46) cis-1,3-Dichloropropene	8.73	75	27516m	0.270	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	34866m	0.423	ppbv	
48) Dibromochloromethane	10.33	129	45495	0.359	ppbv	96
49) Bromoform	13.09	173	38389m	0.352	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	64287	0.307	ppbv	96
51) 2-Hexanone	10.18	43	45142m	0.276	ppbv	
52) Tetrachloroethene	11.25	164	24990m	0.361	ppbv	
53) Toluene	9.83	91	50510	0.245	ppbv	96
54) 1,2-Dibromoethane	10.64	107	45254m	0.374	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.16	131	40969m	0.423	ppbv	
57) Chlorobenzene	12.18	112	81835	0.481	ppbv #	87
58) Ethyl Benzene	12.75	91	78510m	0.295	ppbv	
59) m/p-Xylene	13.03	91	172177m	0.736	ppbv	
60) o-Xylene	13.73	91	78543m	0.340	ppbv	
61) Styrene	13.57	104	34169m	0.234	ppbv	
62) Isopropylbenzene	14.71	105	121906	0.354	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	87426m	0.481	ppbv	
64) n-propylbenzene	15.61	120	29599m	0.335	ppbv	
65) tert-Butylbenzene	16.80	119	95430m	0.319	ppbv	
66) Benzyl Chloride	17.04	91	32061m	0.316	ppbv	
67) sec-Butylbenzene	17.34	105	148253m	0.348	ppbv	
69) p-Isopropyltoluene	17.71	119	104242	0.302	ppbv	95
70) n-Butylbenzene	18.61	91	119292m	0.325	ppbv	
71) 2-Chlorotoluene	15.50	91	81522m	0.314	ppbv	
72) 4-Ethyltoluene	15.88	105	79540m	0.309	ppbv	
73) 1,3,5-Trimethylbenzene	16.04	105	77036m	0.308	ppbv	
74) 1,2,4-Trimethylbenzene	16.81	105	97068m	0.355	ppbv	
75) 1,3-Dichlorobenzene	17.05	146	76533m	0.477	ppbv	
76) 1,4-Dichlorobenzene	17.19	146	64504m	0.423	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	64440m	0.426	ppbv	
78) Hexachloro-1,3-Butadiene	23.44	225	48765m	0.378	ppbv	
79) Naphthalene	22.28	128	34233m	0.161	ppbv	
81) 1,2,4-Trichlorobenzene	22.01	180	32155m	0.249	ppbv	

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

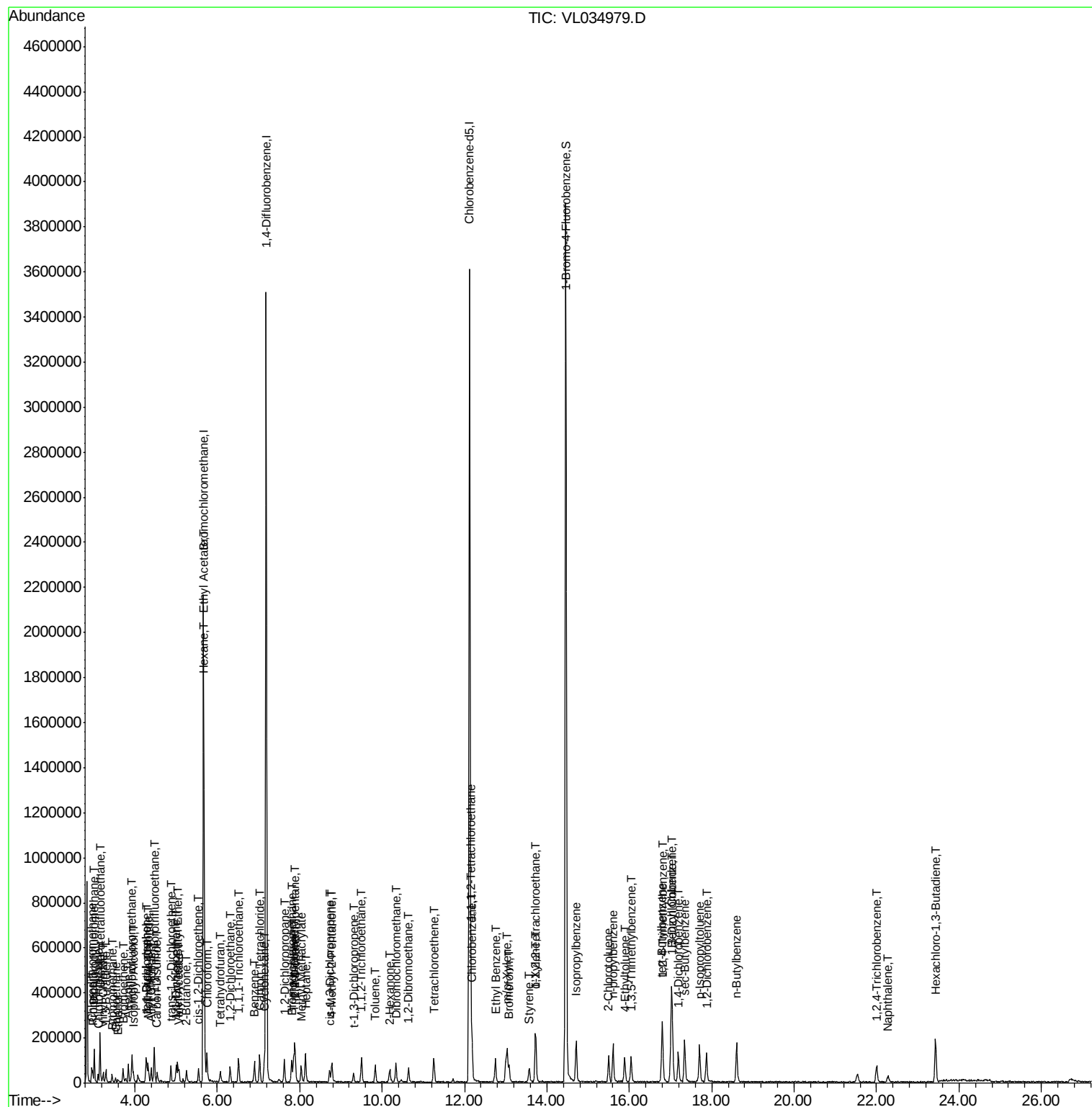
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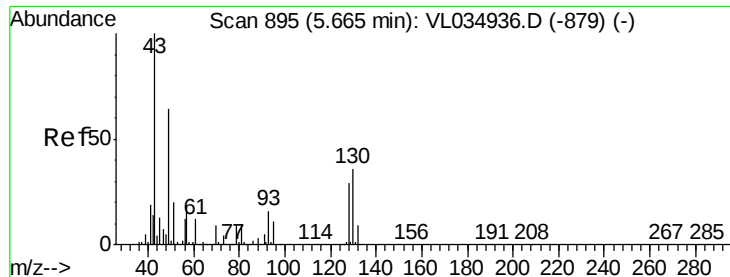
Instrument :
MSVOA_L
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 49 Resp: 1012222

Ion Ratio Lower Upper

49 100

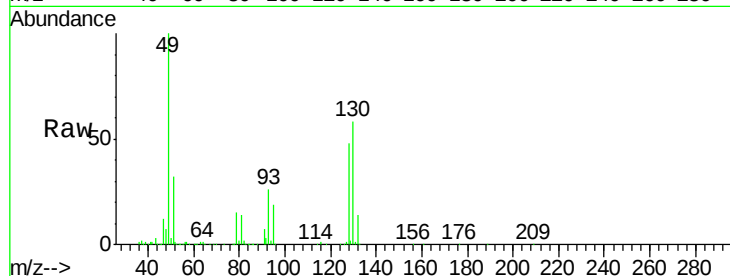
128 45.7 22.1 66.5

130 57.6 29.1 87.3

Manual Integrations
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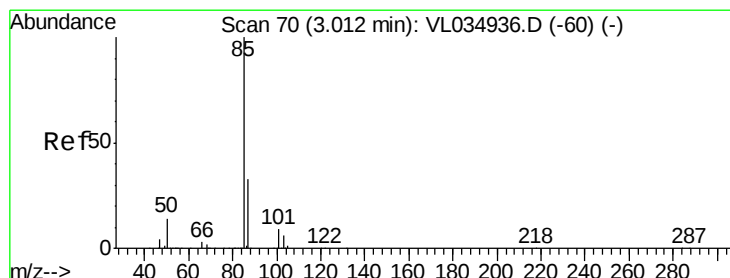
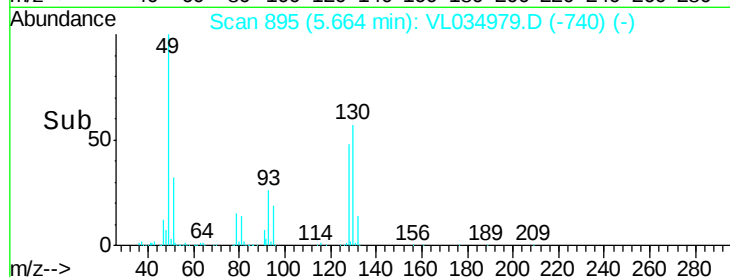
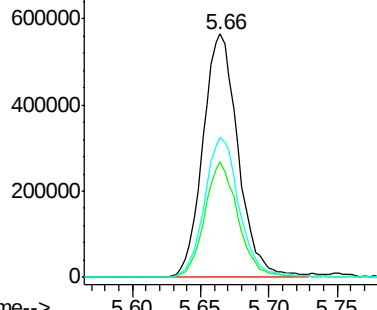
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.654 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL034979.D

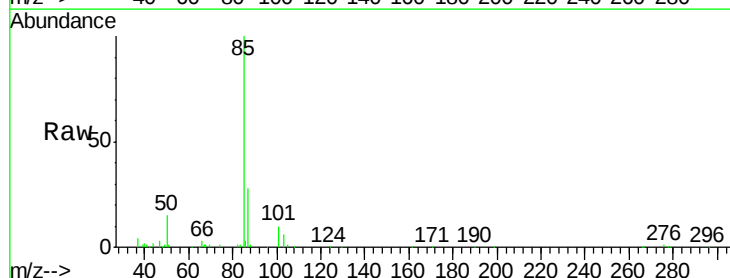
Acq: 7 May 2020 22:32

Tgt Ion: 85 Resp: 93885

Ion Ratio Lower Upper

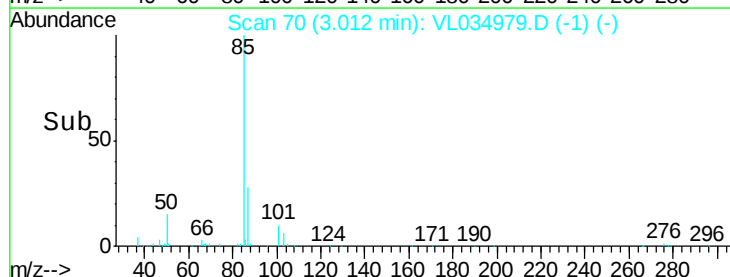
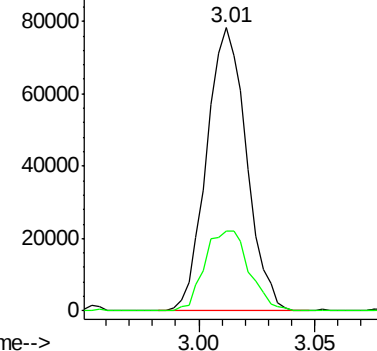
85 100

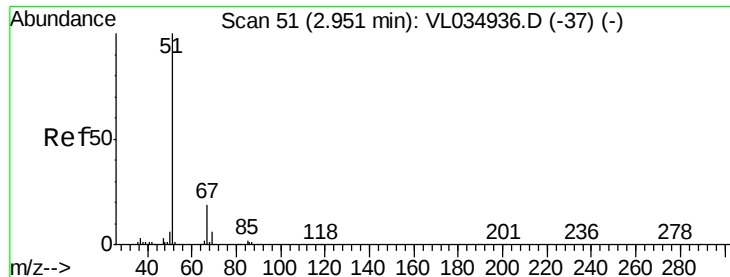
87 28.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





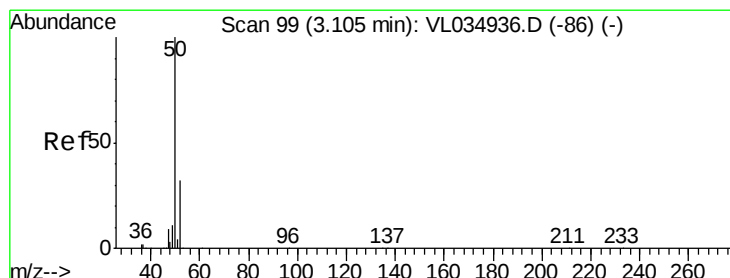
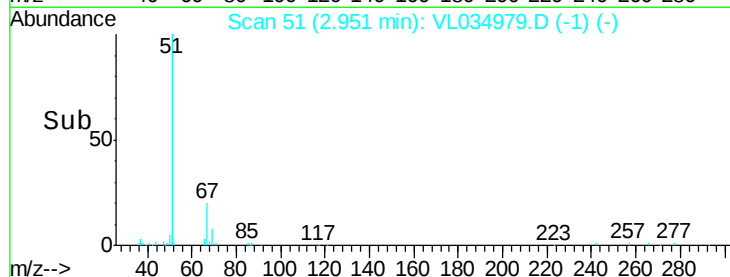
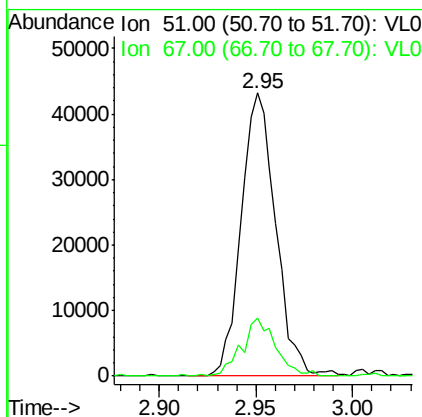
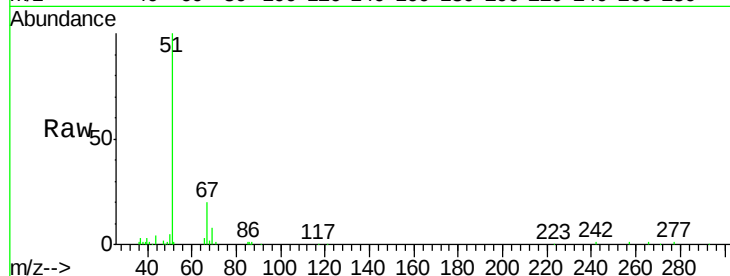
#3
Chlorodifluoromethane
Concen: 0.463 ppbv
RT: 2.95 min Scan# 51
Delta R.T. -0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

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

Tot Ion: 51 Resp: 53517
Ion Ratio Lower Upper
51 100
67 20.3 15.0 22.6

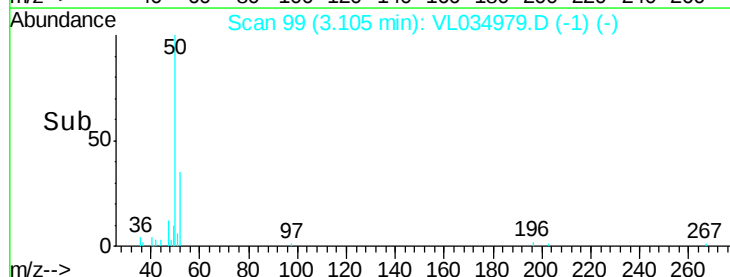
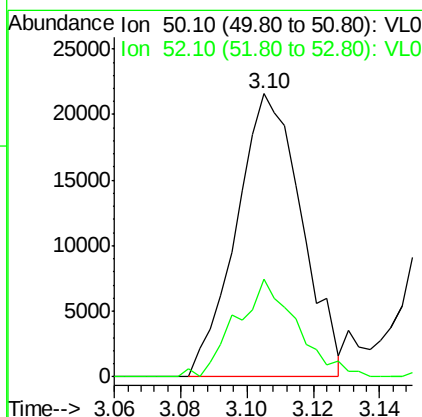
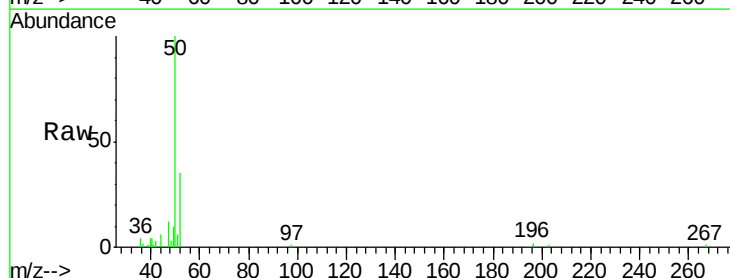
Manual Integrations
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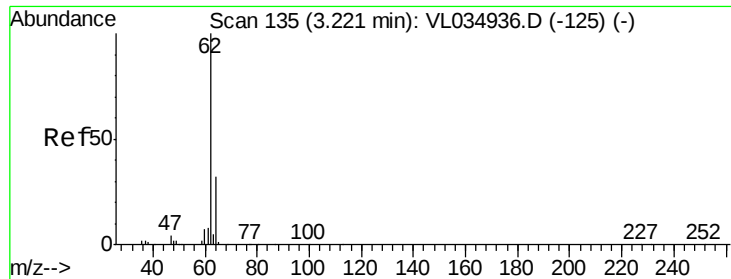
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#4
Chloromethane
Concen: 0.446 ppbv
RT: 3.10 min Scan# 99
Delta R.T. -0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion: 50 Resp: 29550
Ion Ratio Lower Upper
50 100
52 31.9 25.4 38.2





#5

Vinyl Chloride

Concen: 0.450 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 62 Resp: 29063

Ion Ratio Lower Upper

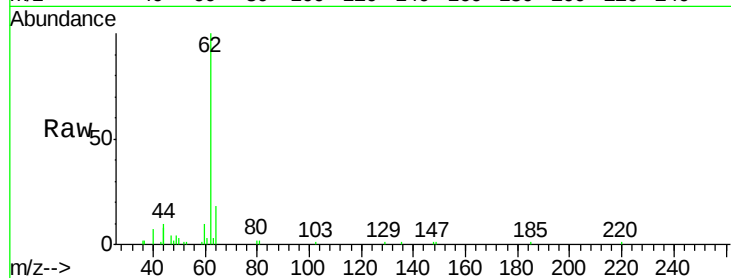
62 100

64 18.5 25.7 38.5#

Manual Integrations
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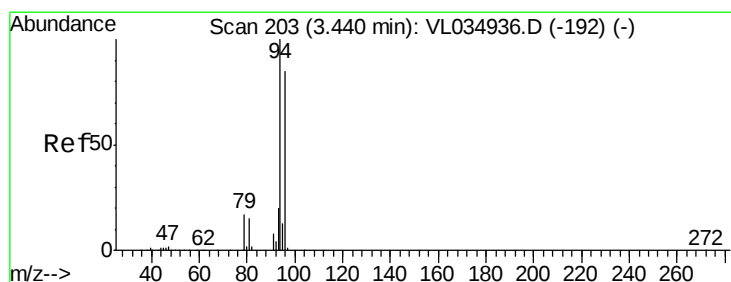
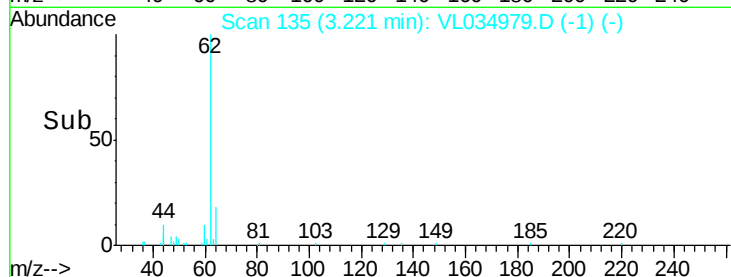
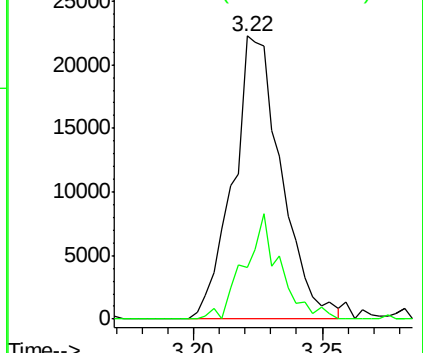
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.445 ppbv

RT: 3.44 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL034979.D

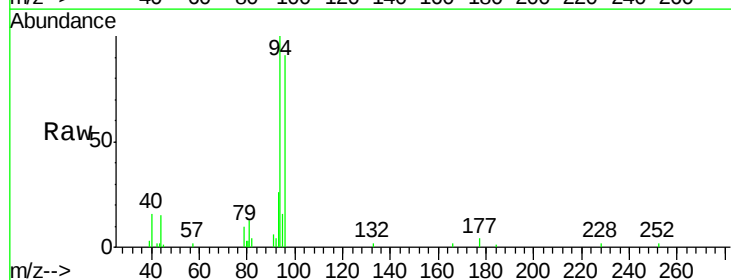
Acq: 7 May 2020 22:32

Tgt Ion: 94 Resp: 17179

Ion Ratio Lower Upper

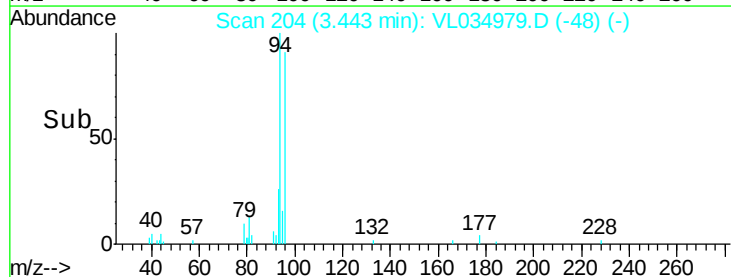
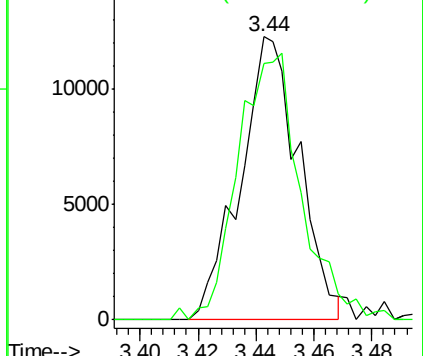
94 100

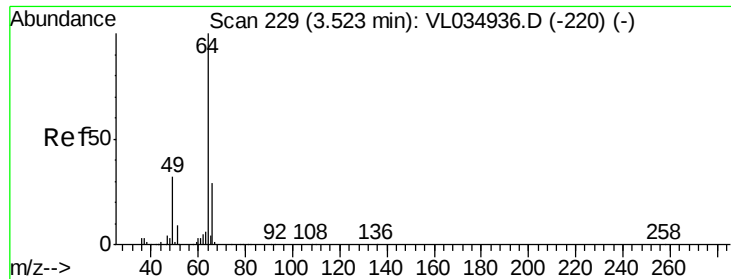
96 90.8 67.9 101.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.471 ppbv m

RT: 3.53 min Scan# 231

Delta R.T. 0.01 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 64 Resp: 10923

Ion Ratio Lower Upper

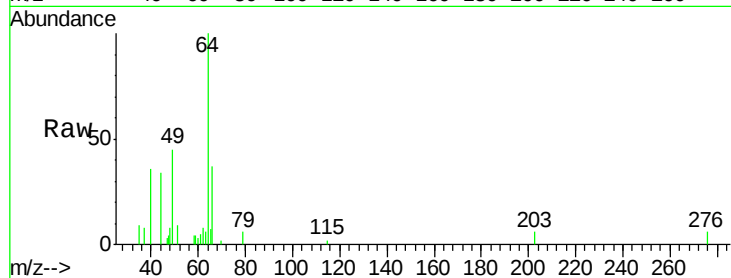
64 100

66 37.3 23.2 34.8#

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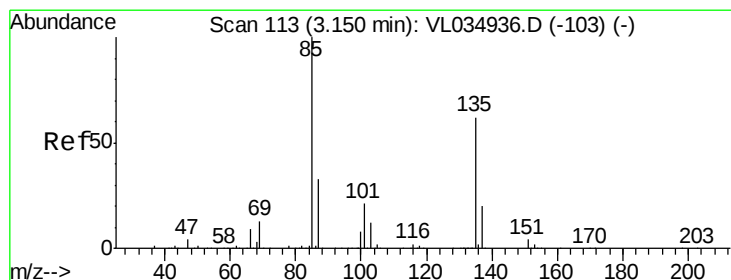
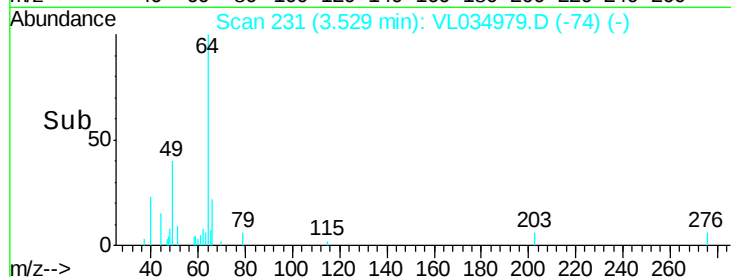
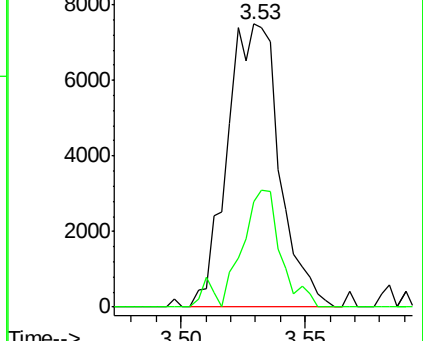
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.512 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034979.D

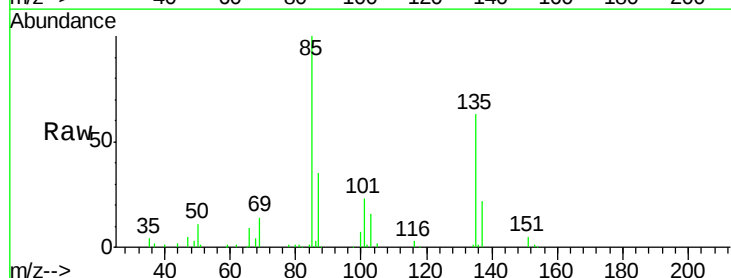
Acq: 7 May 2020 22:32

Tgt Ion: 85 Resp: 76186

Ion Ratio Lower Upper

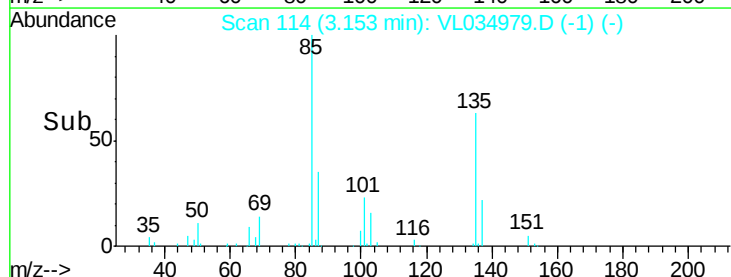
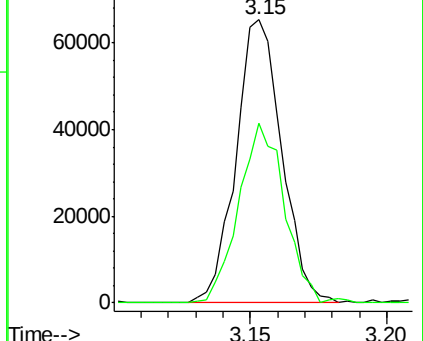
85 100

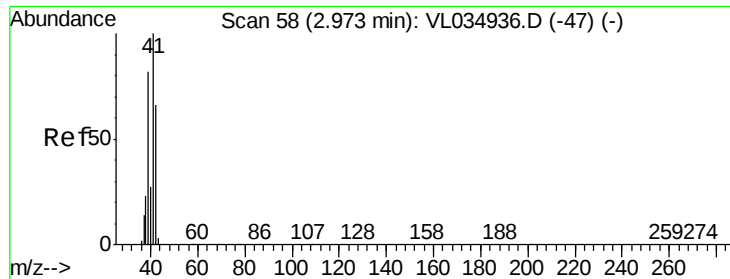
135 63.4 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





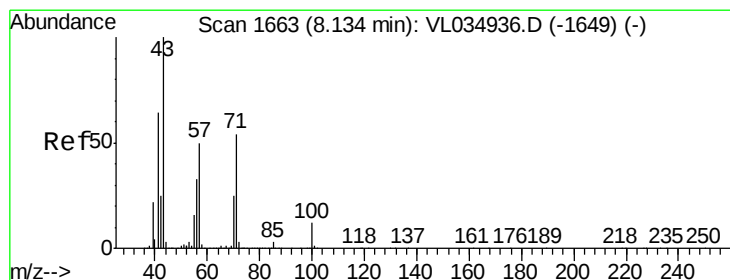
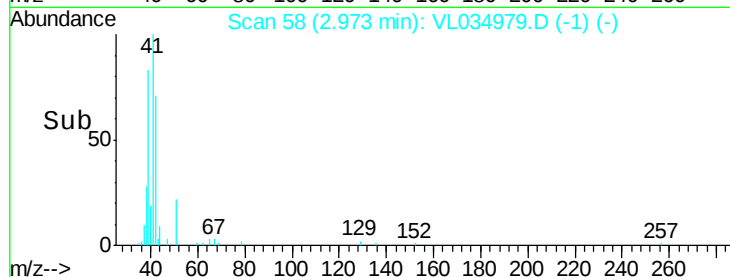
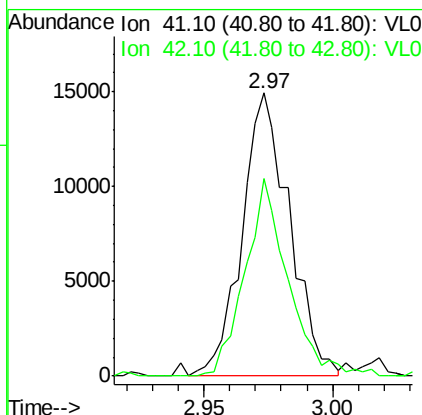
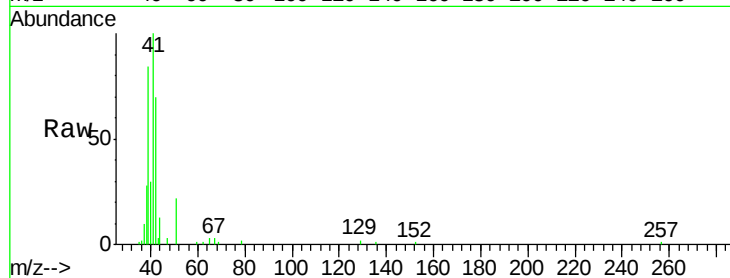
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 Propene
 Concen: 0.383 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion: 41 Resp: 19206
 Ion Ratio Lower Upper
 41 100
 42 63.5 54.5 81.7

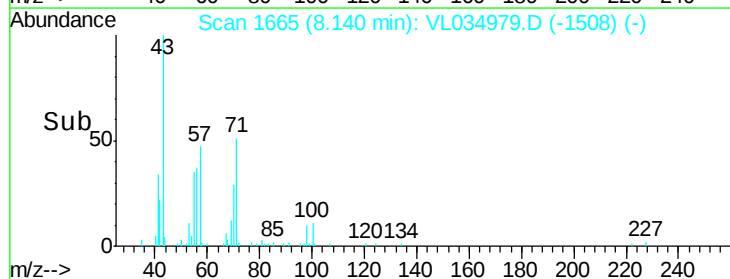
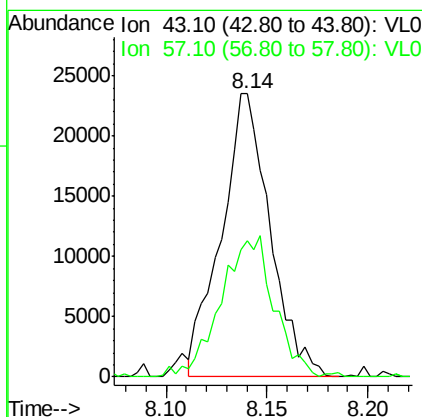
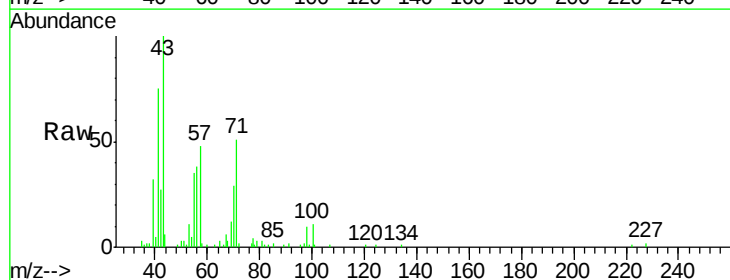
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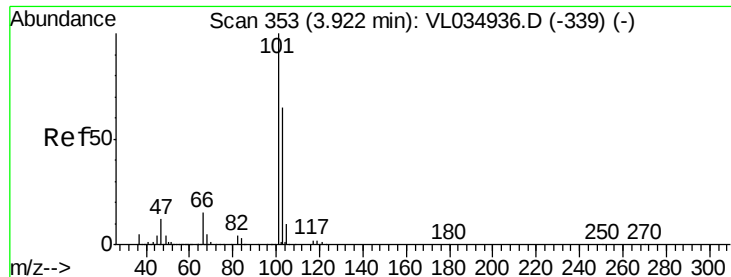
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#10
 Heptane
 Concen: 0.316 ppbv
 RT: 8.14 min Scan# 1665
 Delta R.T. 0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion: 43 Resp: 39756
 Ion Ratio Lower Upper
 43 100
 57 54.5 41.1 61.7





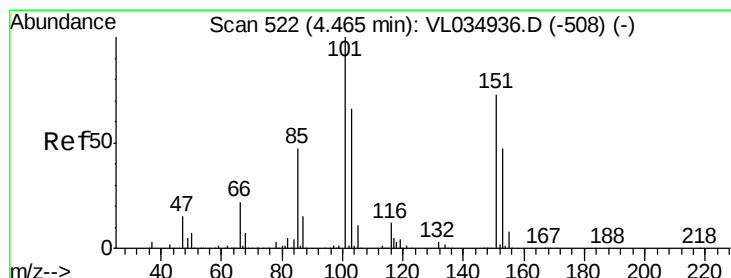
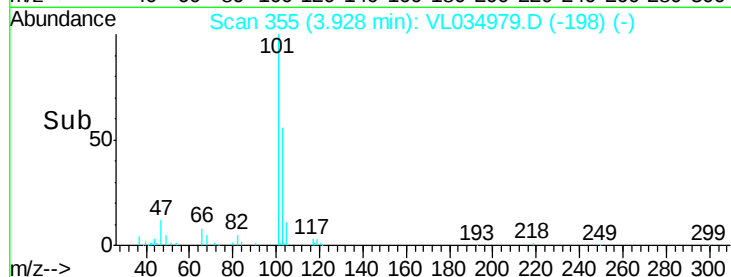
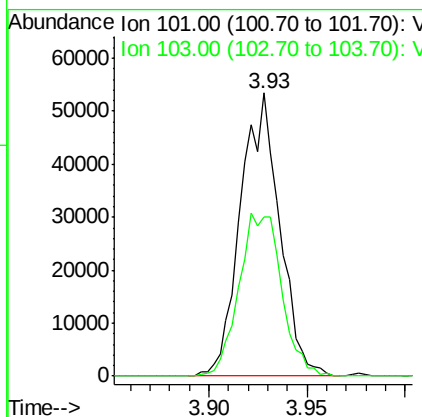
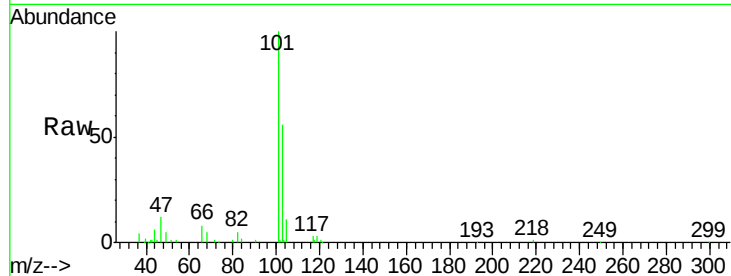
#11
 Trichlorofluoromethane
 Concen: 0.495 ppbv m
 RT: 3.93 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		73391		
103	56.3		51.9	77.9	

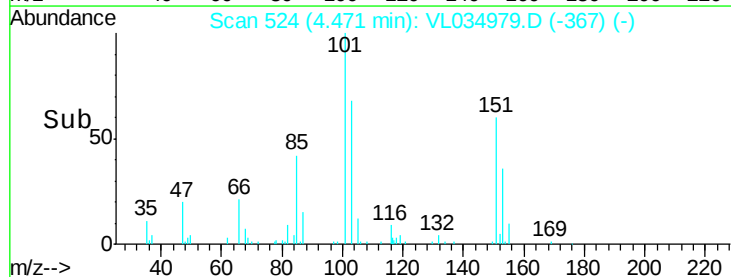
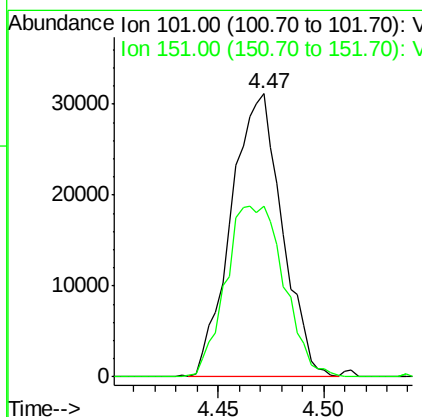
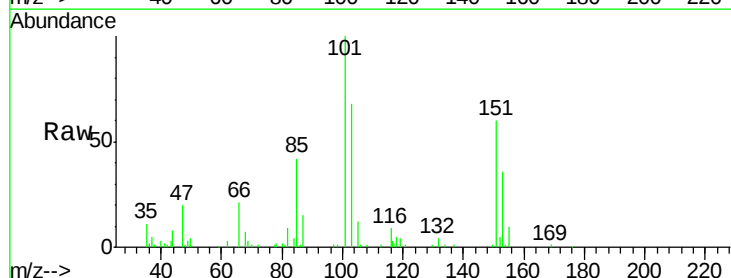
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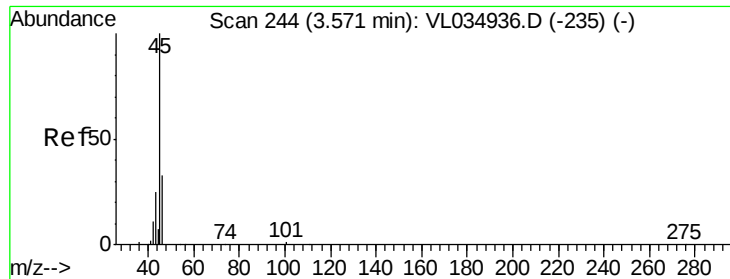
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.497 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. 0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	100		52412		
151	68.8		57.6	86.4	





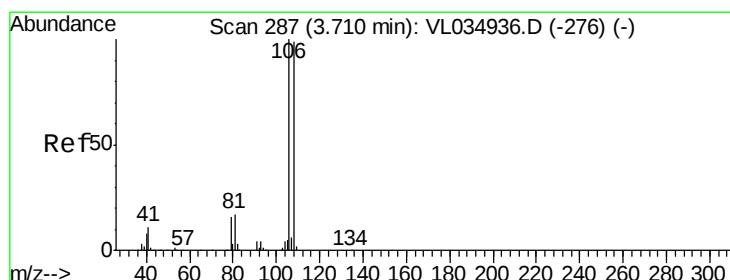
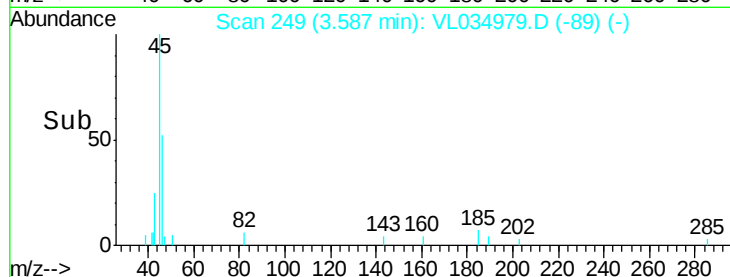
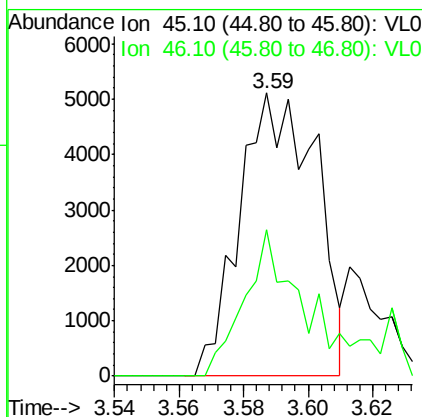
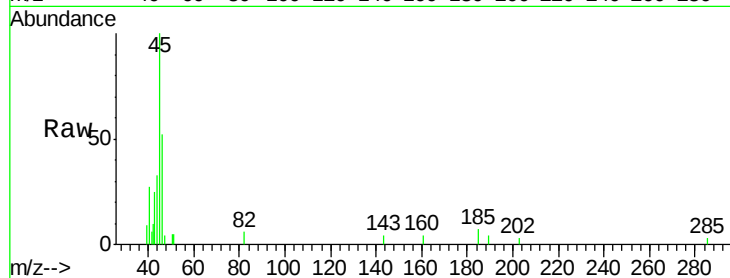
#13
Ethanol
Concen: 0.506 ppbv m
RT: 3.59 min Scan# 249
Delta R.T. 0.02 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
45	100		
46	47.1	14.3	57.3

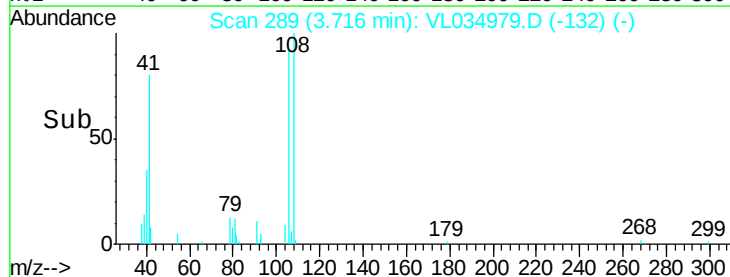
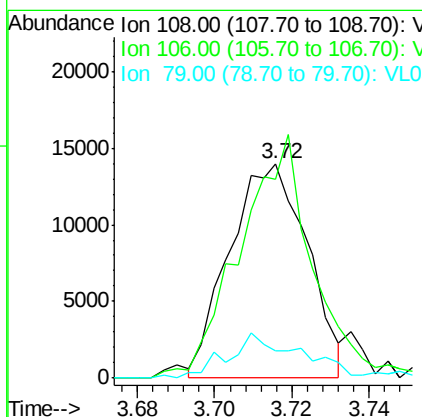
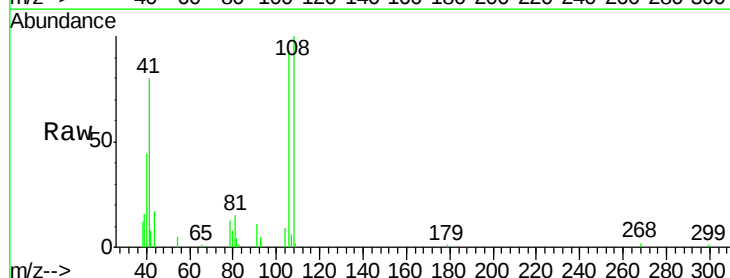
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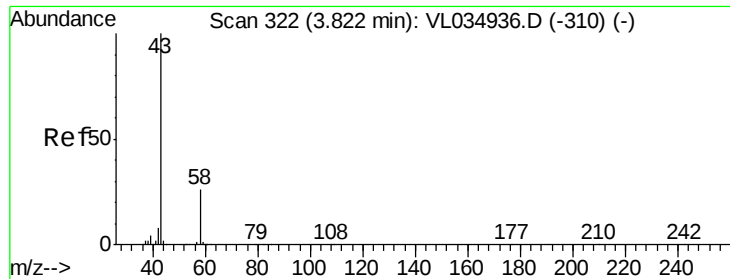
MMDadoda
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#14
Bromoethene
Concen: 0.448 ppbv
RT: 3.72 min Scan# 289
Delta R.T. 0.01 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.4	84.9	127.3
79	22.3	14.1	21.1





#15

Acetone

Concen: 0.538 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.02 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 43 Resp: 71941

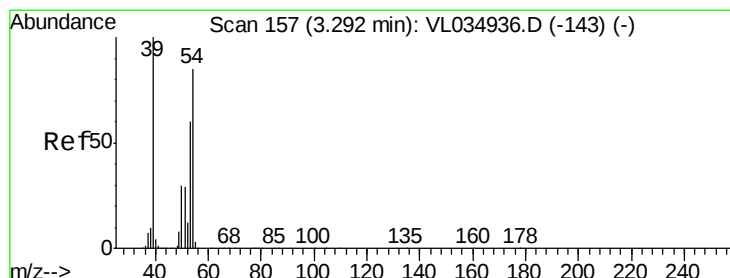
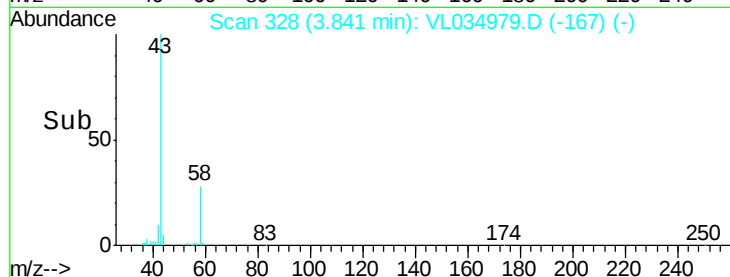
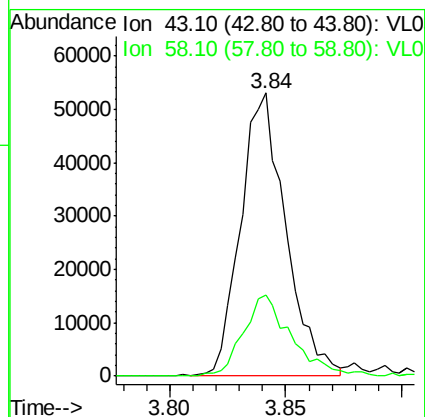
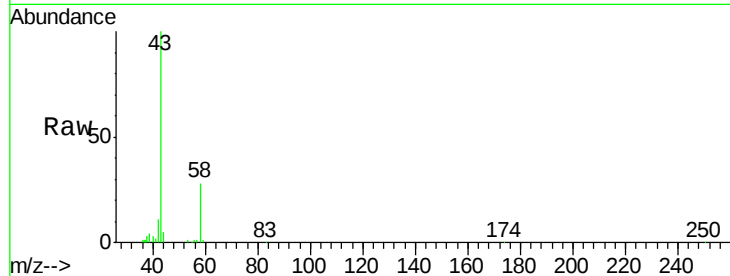
Ion Ratio Lower Upper

43 100

58 31.2 21.7 32.5

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#16

1,3-Butadiene

Concen: 0.404 ppbv m

RT: 3.29 min Scan# 157

Delta R.T. -0.00 min

Lab File: VL034979.D

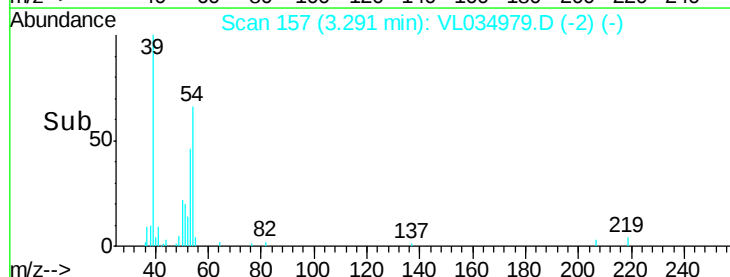
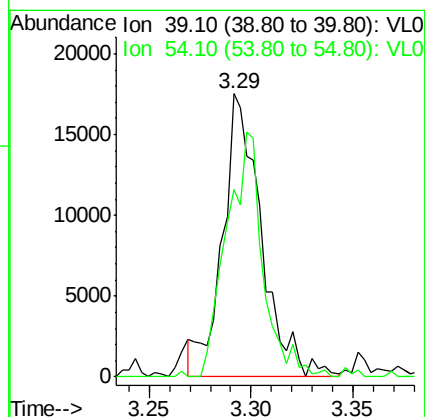
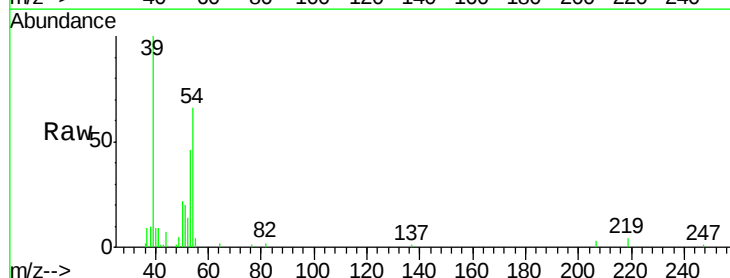
Acq: 7 May 2020 22:32

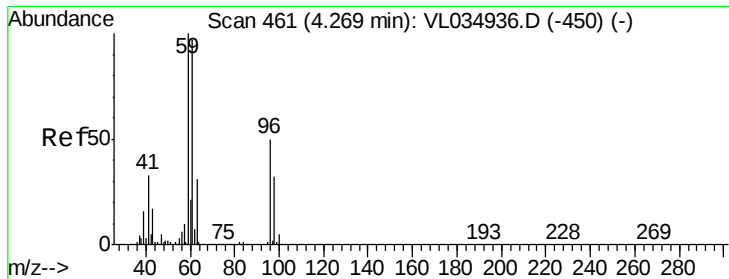
Tgt Ion: 39 Resp: 23266

Ion Ratio Lower Upper

39 100

54 81.1 66.6 100.0





#17

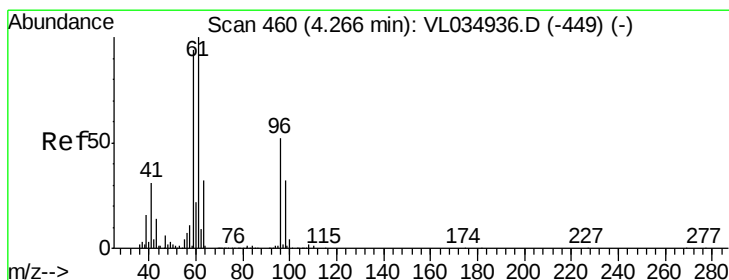
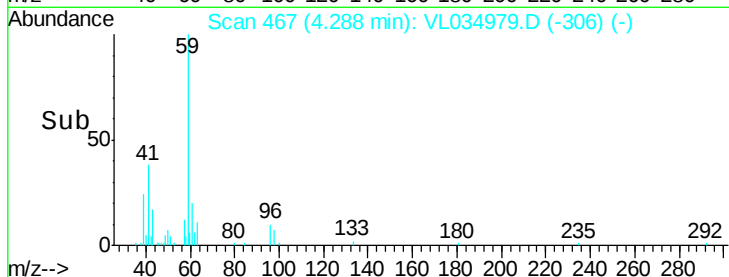
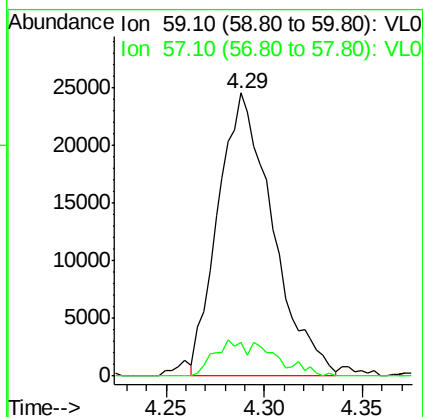
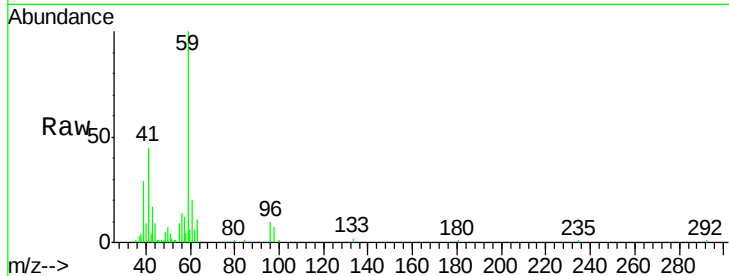
tert-Butyl alcohol
 Concen: 0.399 ppbv m
 RT: 4.29 min Scan# 467
 Delta R.T. 0.02 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion: 59 Resp: 47507
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#

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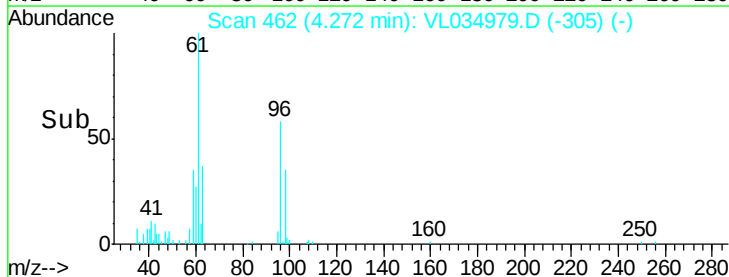
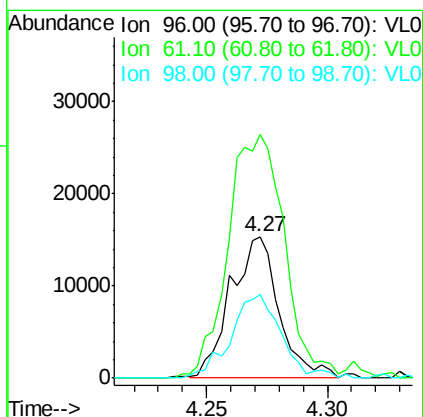
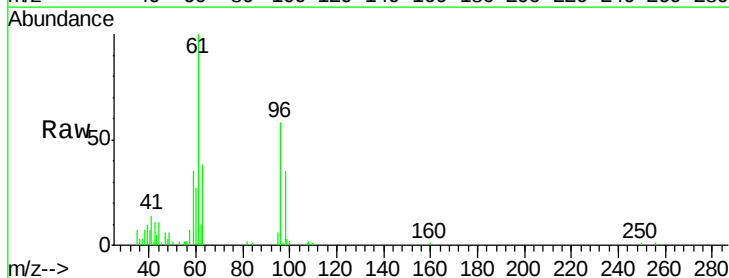
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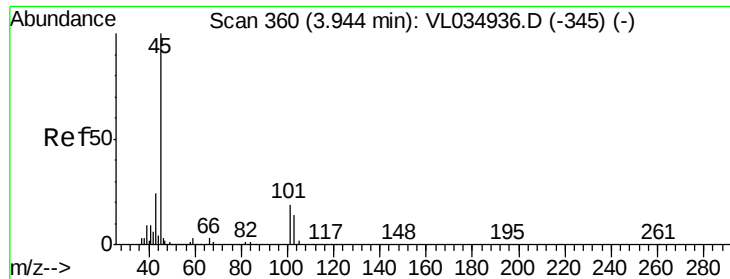


#18

1,1-Dichloroethene
 Concen: 0.467 ppbv m
 RT: 4.27 min Scan# 462
 Delta R.T. 0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion: 96 Resp: 21352
 Ion Ratio Lower Upper
 96 100
 61 171.8 152.4 228.6
 98 59.3 48.8 73.2





#19

Isopropyl Alcohol

Concen: 0.446 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 45 Resp: 39812

Ion Ratio Lower Upper

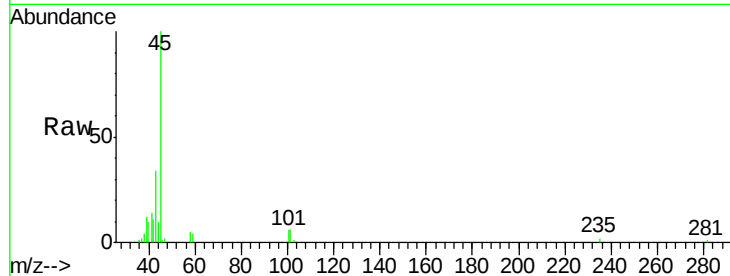
45 100

58 5.1 1.7 2.5#

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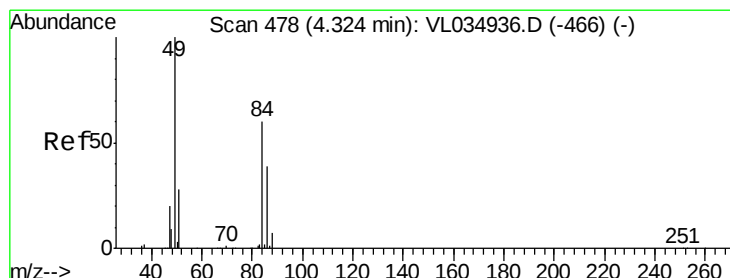
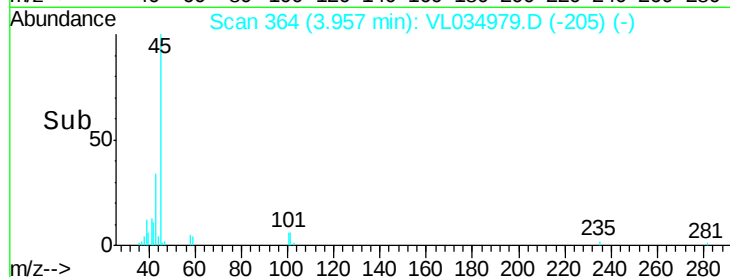
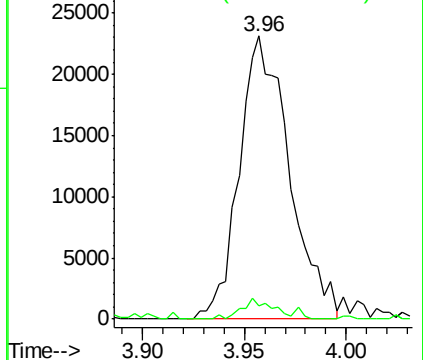
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.543 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion: 84 Resp: 24074

Ion Ratio Lower Upper

84 100

49 123.2 132.5 198.7#

51 46.9 38.4 57.6

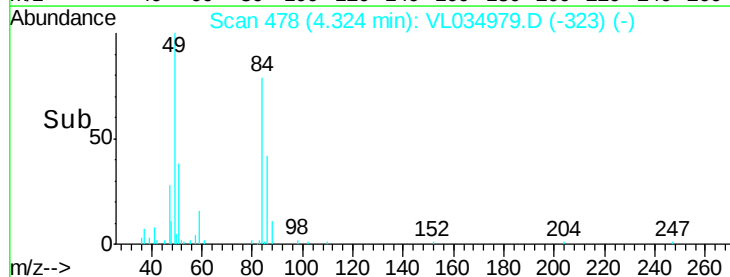
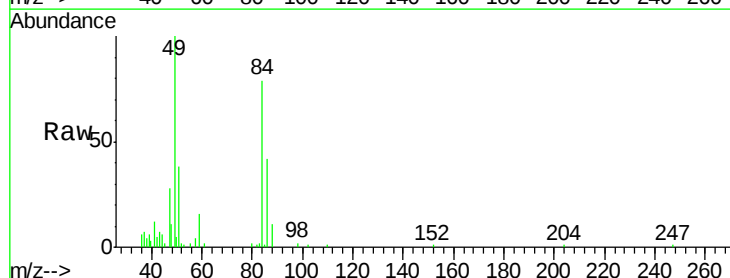
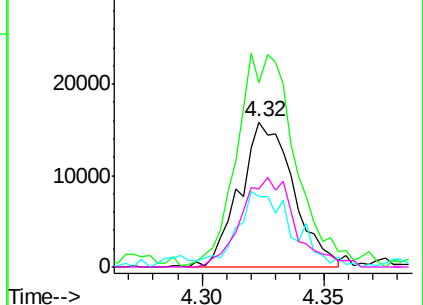
86 52.9 51.2 76.8

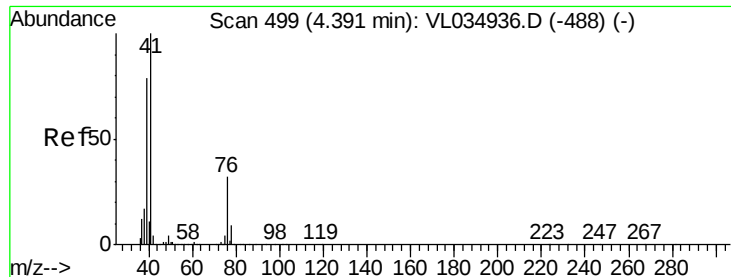
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allvl Chloride

Concen: 0.423 ppbv

RT: 4.40 min Scan# 501

Delta R.T. 0.01 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

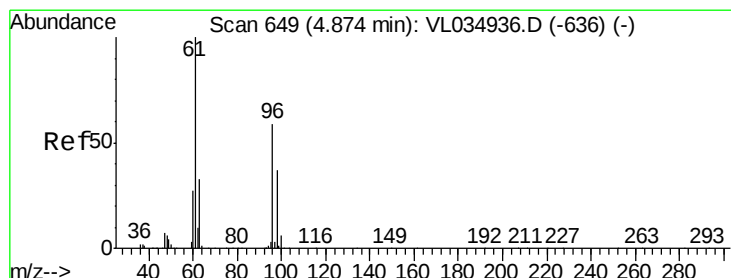
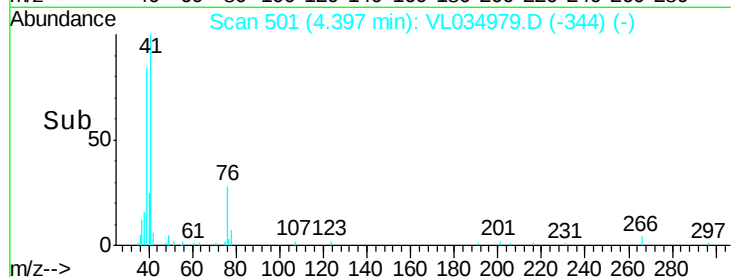
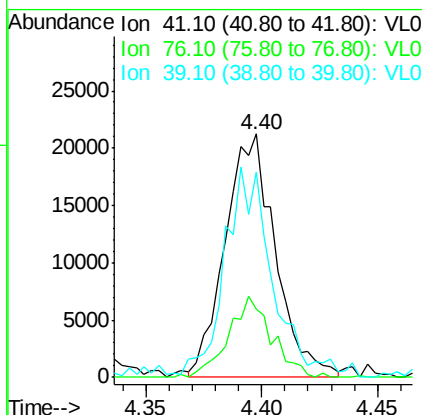
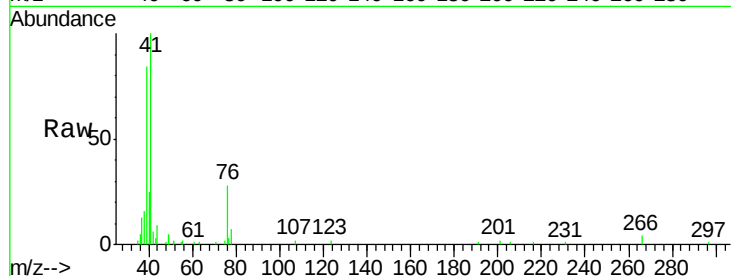
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	41	Resp:	31957
Ion	Ratio	Lower	Upper
41	100		
76	28.8	23.6	35.4
39	84.2	61.9	92.9

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#22

trans-1,2-Dichloroethene

Concen: 0.428 ppbv

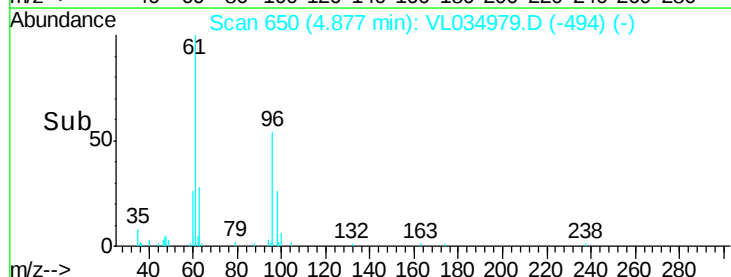
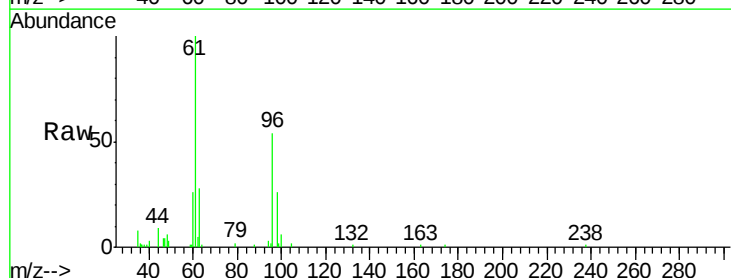
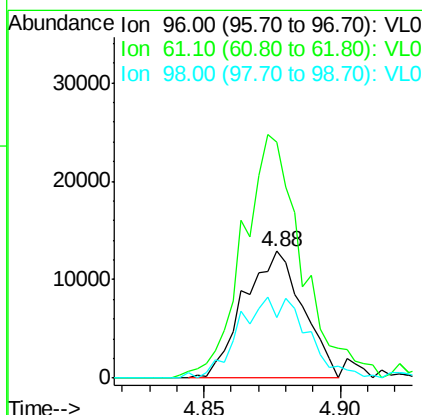
RT: 4.88 min Scan# 650

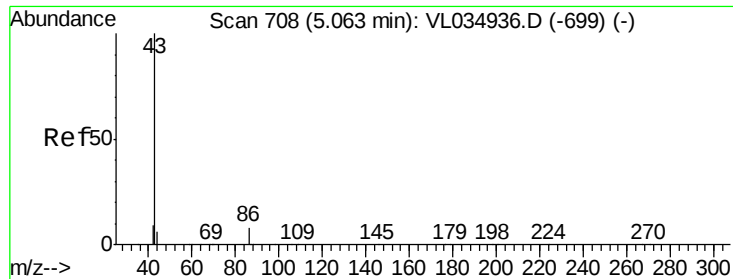
Delta R.T. 0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:	96	Resp:	19408
Ion	Ratio	Lower	Upper
96	100		
61	180.4	135.3	202.9
98	43.3	50.4	75.6#





#23

Vinyl Acetate

Concen: 0.352 ppbv m

RT: 5.07 min Scan# 709

Delta R.T. 0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 43 Resp: 59700

Ion Ratio Lower Upper

43 100

86 8.9 5.5 8.3#

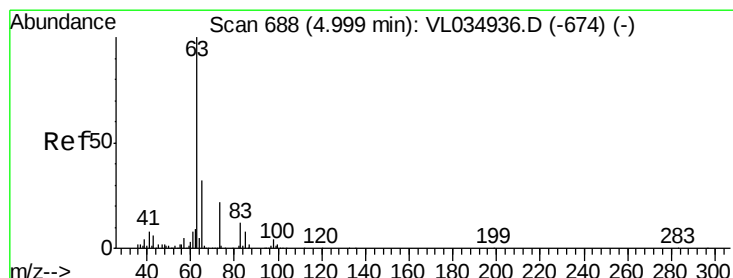
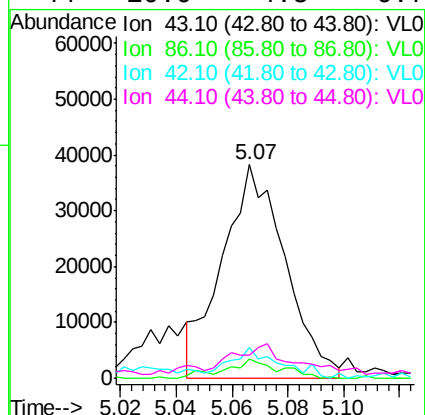
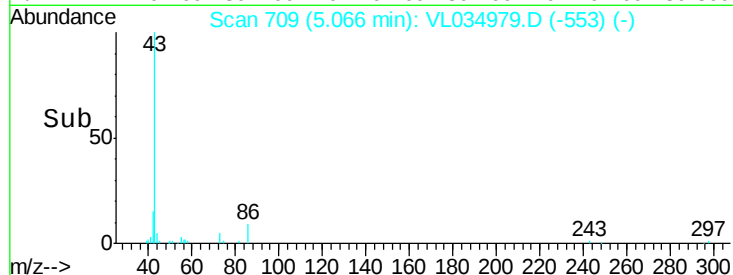
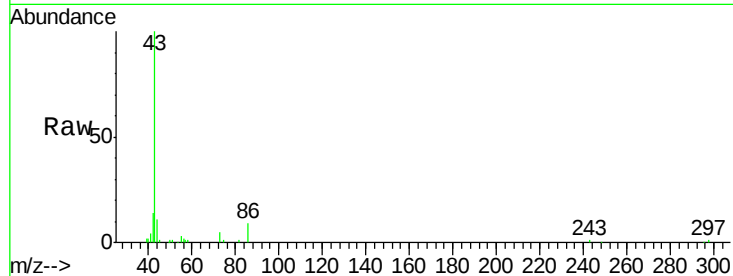
42 14.4 8.0 12.0#

44 10.9 4.5 6.7#

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#24

1,1-Dichloroethane

Concen: 0.453 ppbv m

RT: 5.00 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

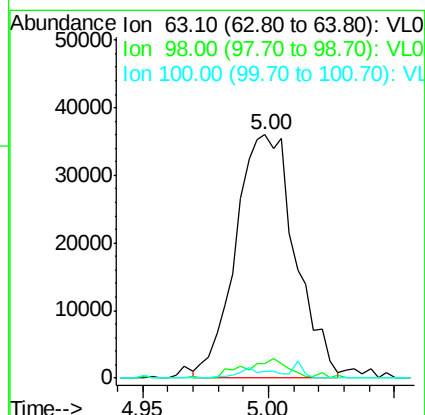
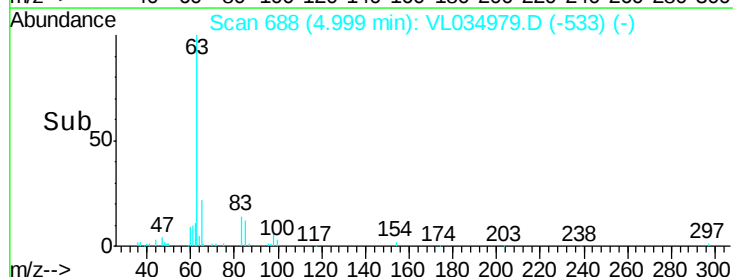
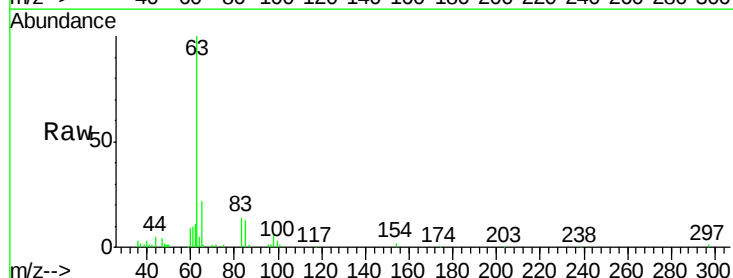
Tgt Ion: 63 Resp: 59209

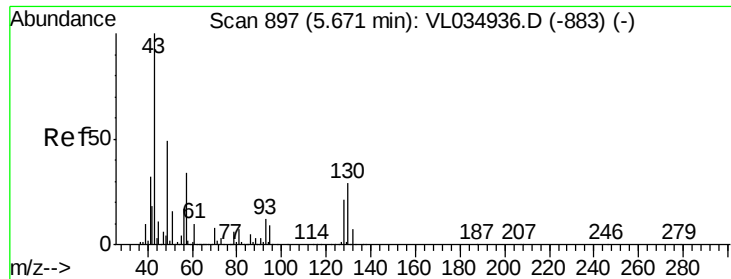
Ion Ratio Lower Upper

63 100

98 5.8 2.0 6.0

100 2.7 1.1 3.5





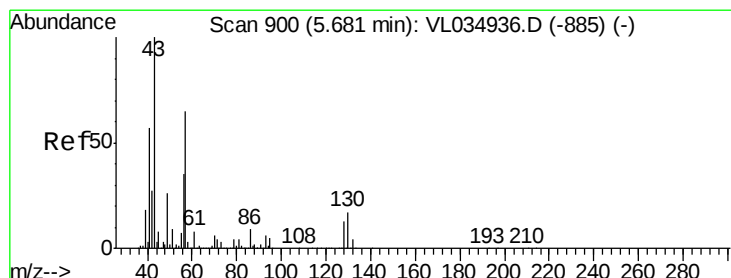
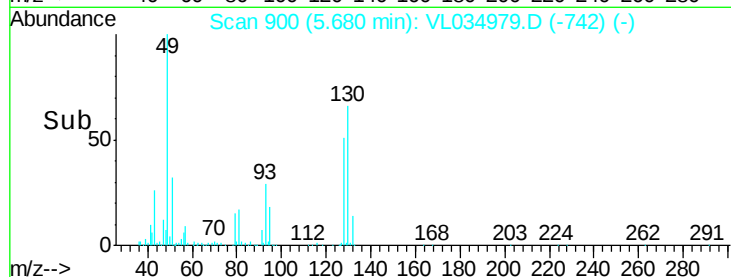
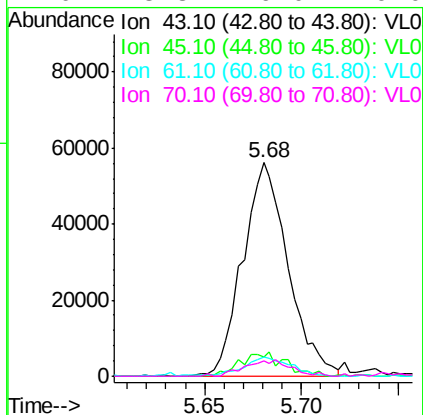
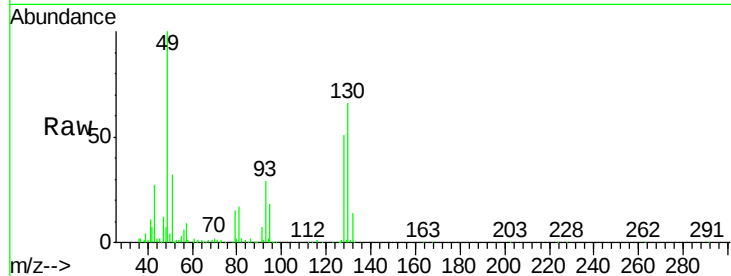
#25
Ethyl Acetate
Concen: 0.406 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

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

Tot Ion	43	Resp	91365
Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.1	12.1
61	9.5	7.8	11.8
70	8.3	6.0	9.0

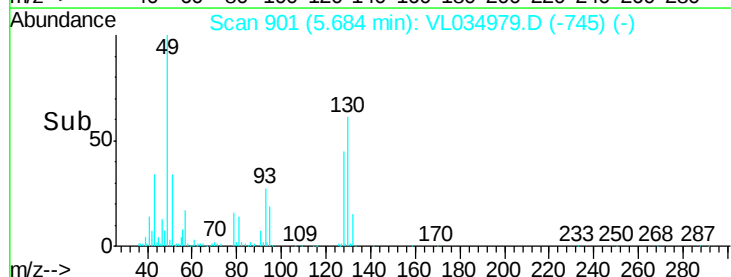
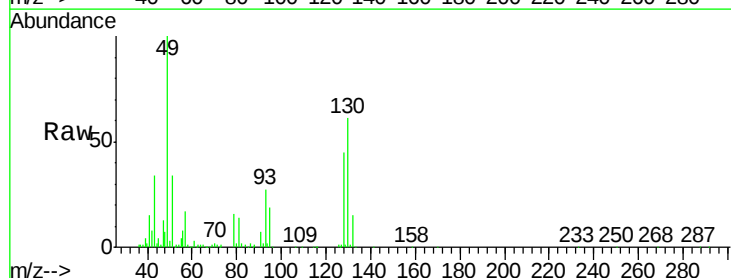
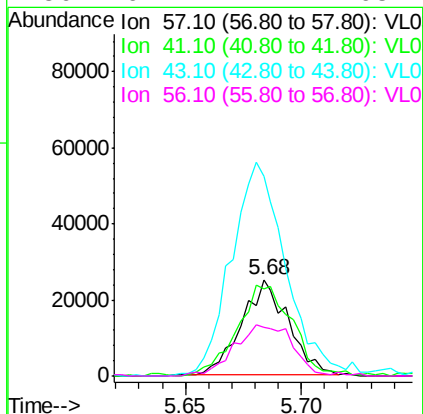
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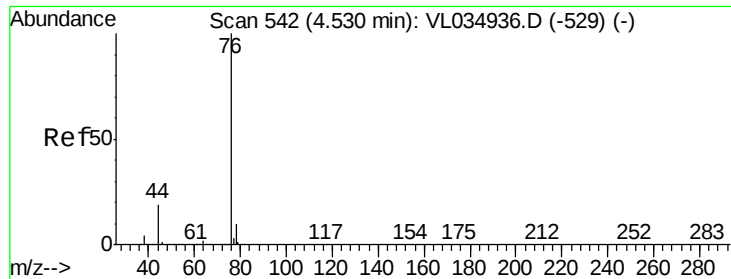
MMDadoda
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#26
Hexane
Concen: 0.360 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion	57	Resp	35090
Ion	Ratio	Lower	Upper
57	100		
41	114.6	72.7	109.1#
43	270.6	182.1	273.1
56	67.2	42.2	63.2#





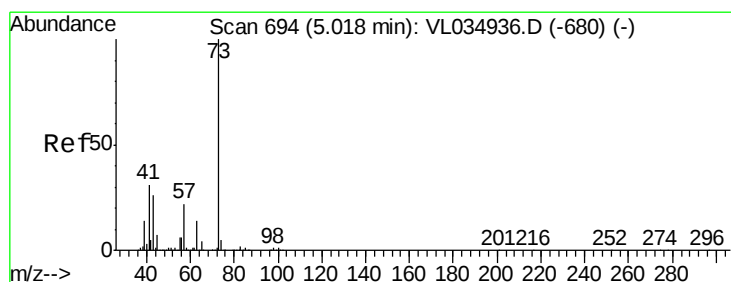
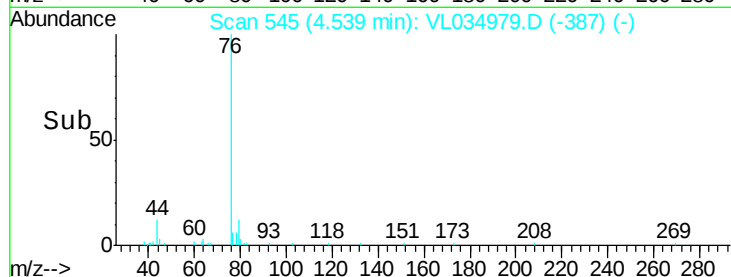
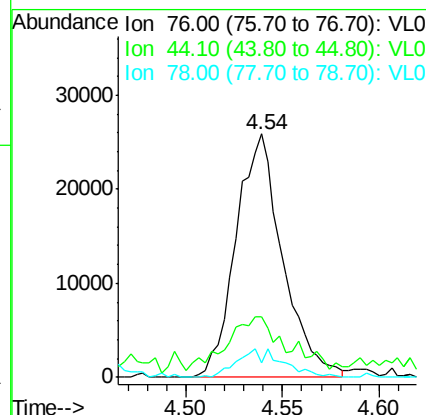
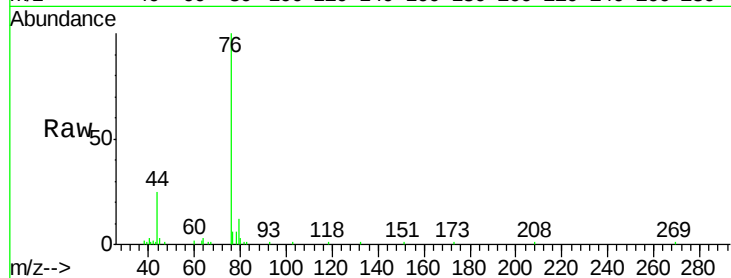
#27
Carbon Disulfide
Concen: 0.378 ppbv
RT: 4.54 min Scan# 545
Delta R.T. 0.01 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
76	100		
44	31.4	15.2	22.8#
78	11.5	7.7	11.5

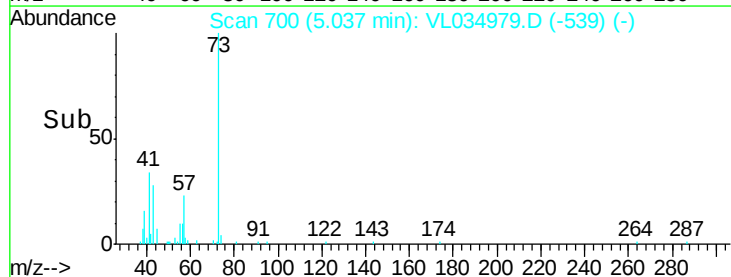
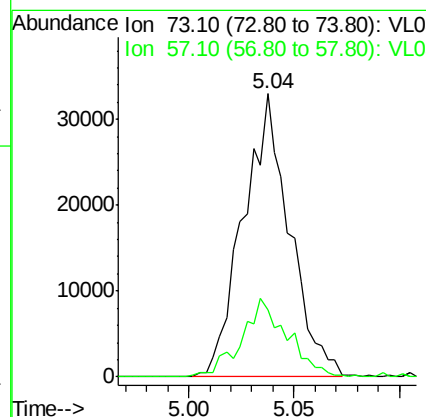
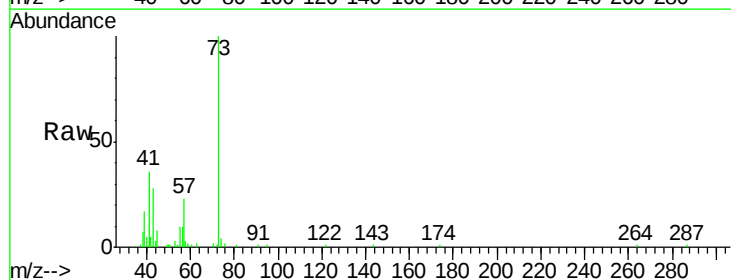
Manual Integrations
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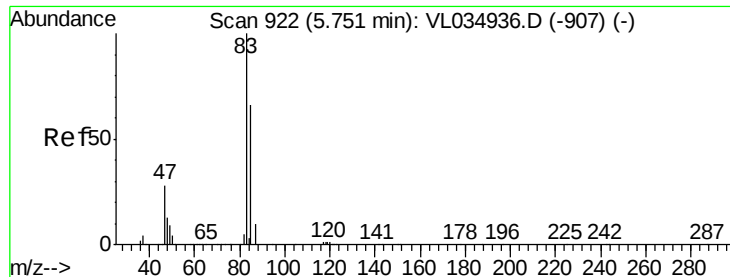
MMDadoda
5/8/2020 5:22:51 PM



#28
Methyl tert-Butyl Ether
Concen: 0.340 ppbv
RT: 5.04 min Scan# 700
Delta R.T. 0.02 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
73	100		
57	27.3	18.3	27.5





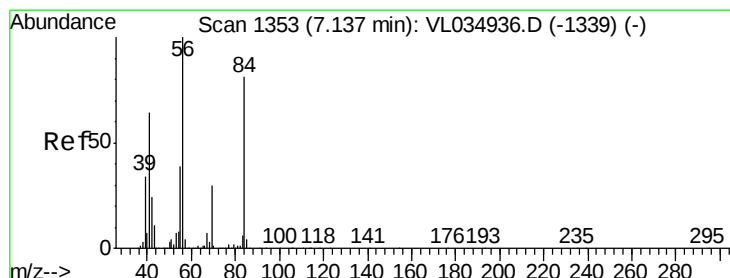
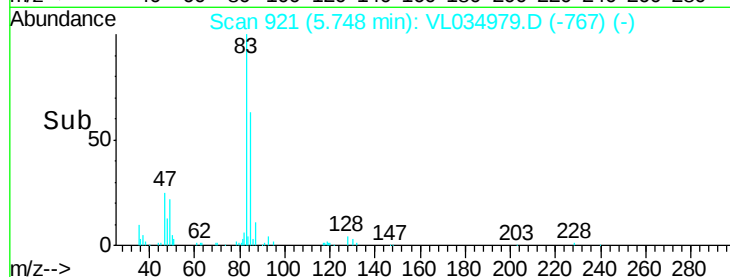
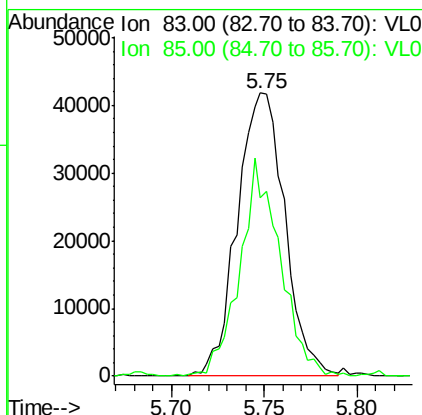
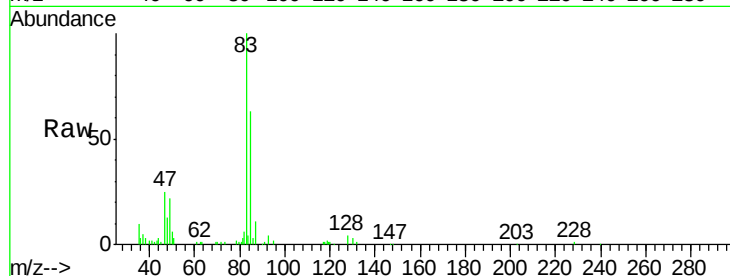
#29
Chloroform
Concen: 0.465 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

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

Tot Ion	83	Resp	74214
Ion Ratio	100	Lower	Upper
83	100		
85	62.5	53.0	79.6

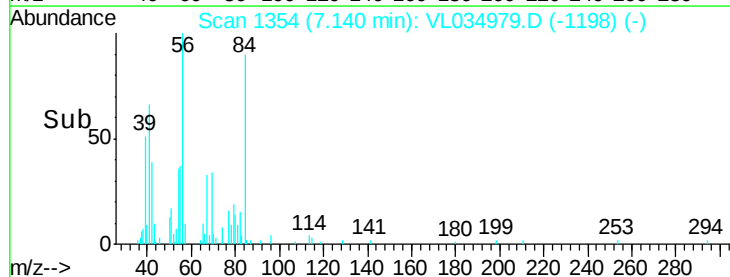
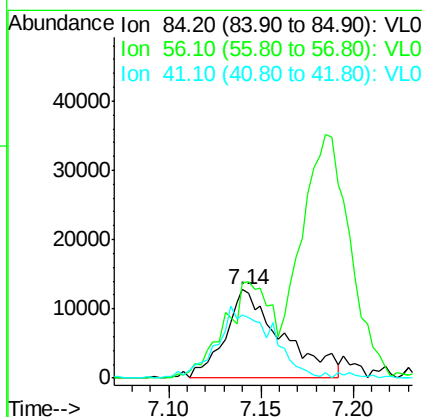
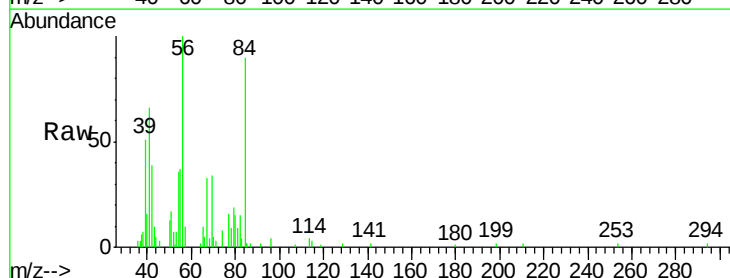
Manual Integrations
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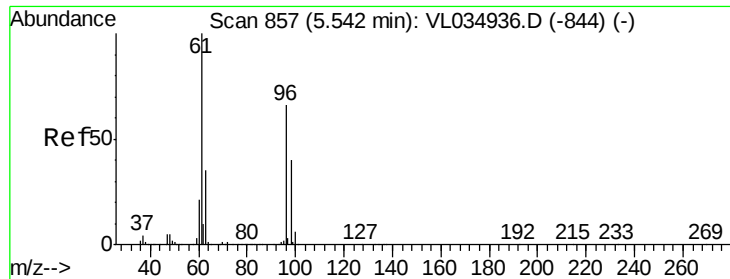
MMDadoda
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#30
Cyclohexane
Concen: 0.363 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. 0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion	84	Resp	27324
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	111.4	167.2#
41	81.1	66.7	100.1





#31

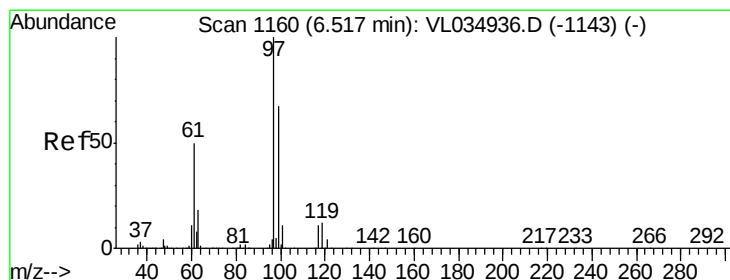
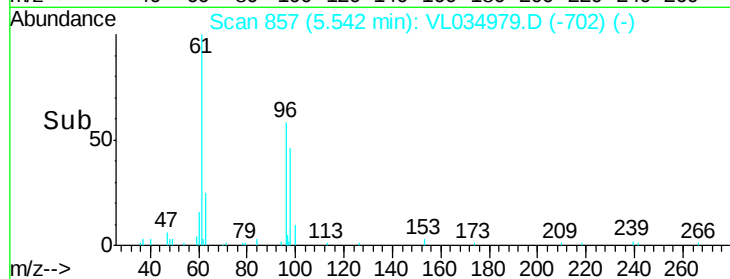
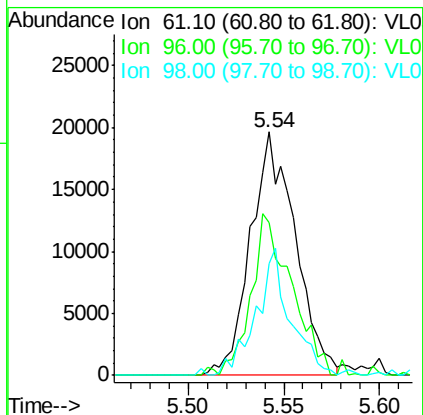
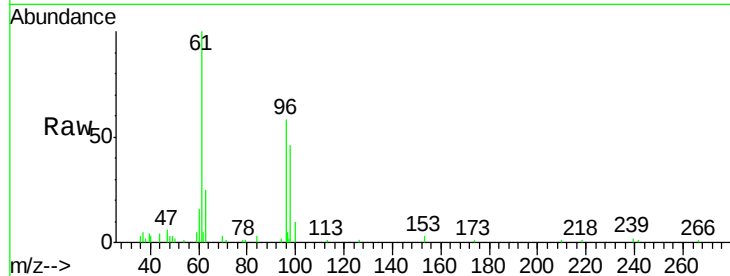
cis-1,2-Dichloroethene
 Concen: 0.336 ppbv m
 RT: 5.54 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.1	53.0	79.6
98	45.9	32.2	48.2

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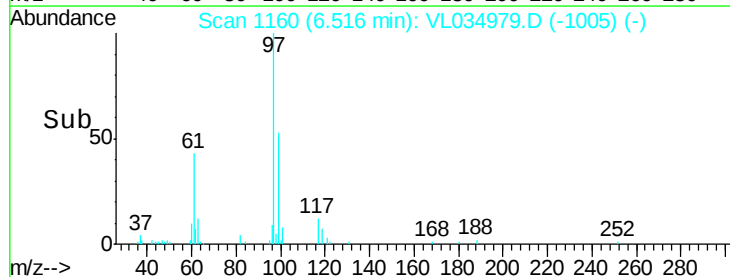
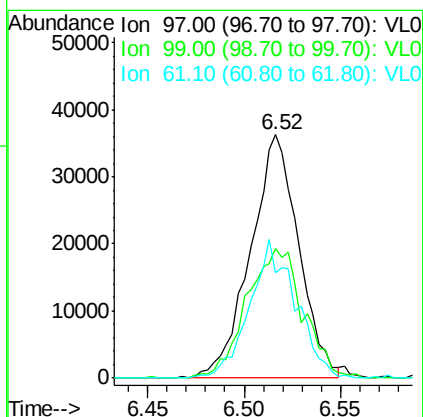
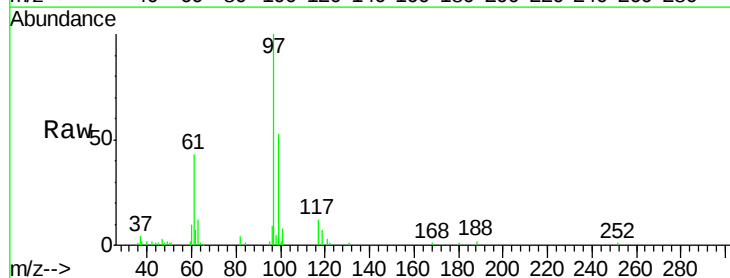
MMDadoda
 5/8/2020 5:22:51 PM

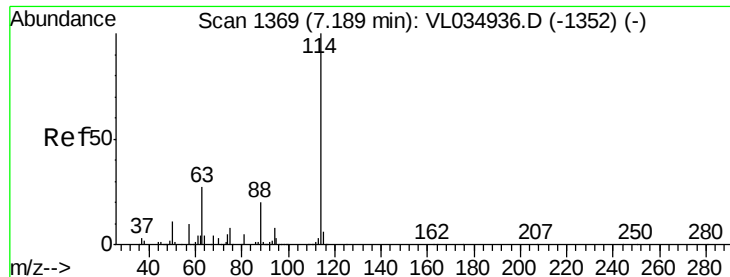


#32

1,1,1-Trichloroethane
 Concen: 0.437 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.2	52.1	78.1
61	54.2	41.8	62.8





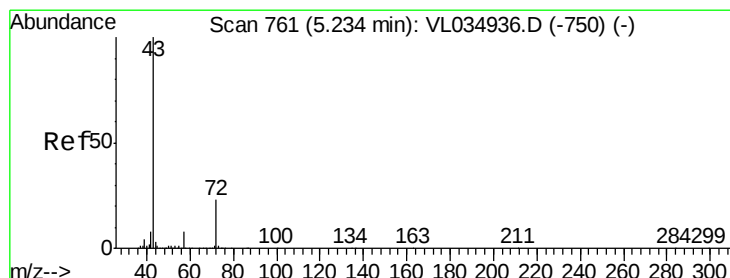
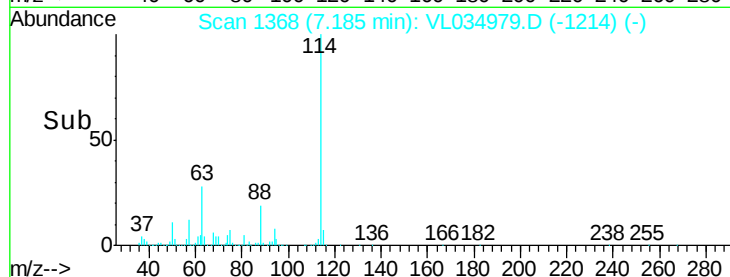
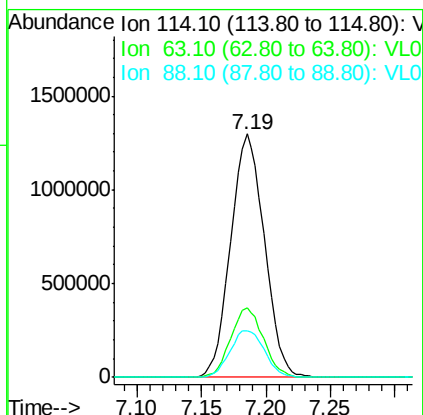
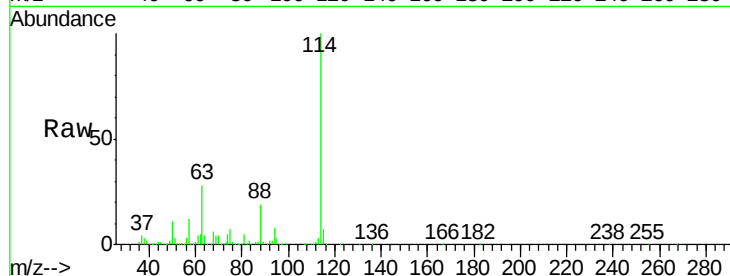
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.8	22.2	33.4
88	19.8	15.5	23.3

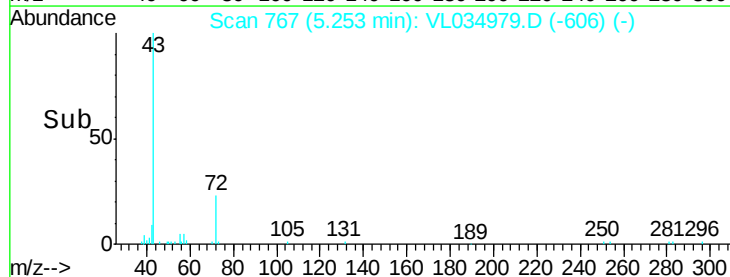
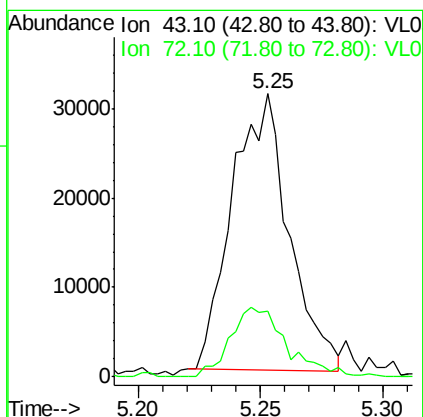
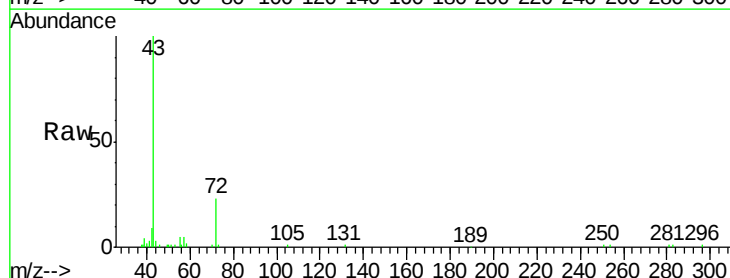
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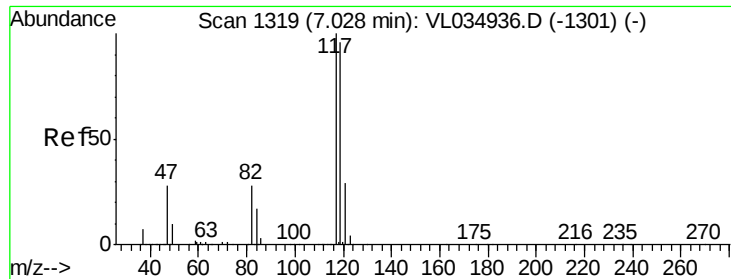
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#34
 2-Butanone
 Concen: 0.340 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.02 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.6	18.0	27.0





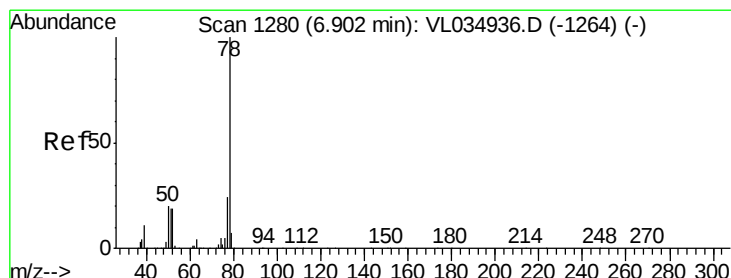
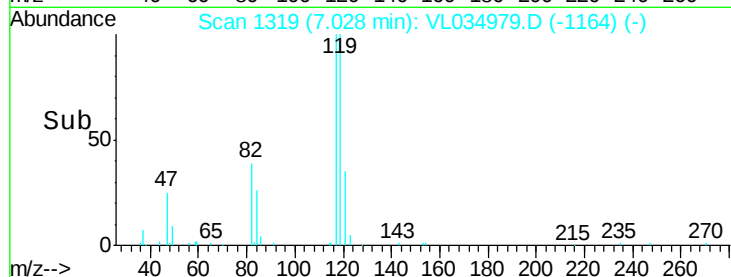
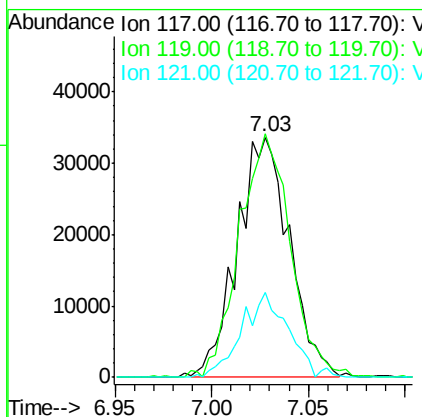
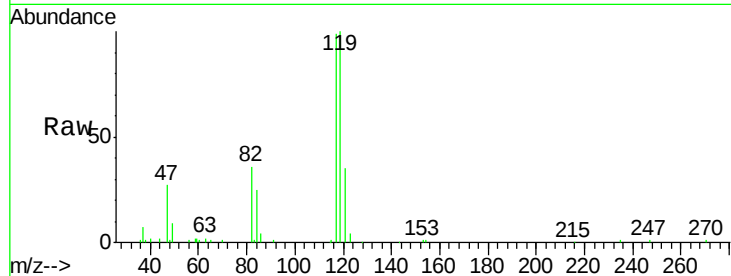
#35
Carbon Tetrachloride
Concen: 0.425 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. -0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
117	100		
119	101.4	77.0	115.6
121	35.6	23.0	34.6

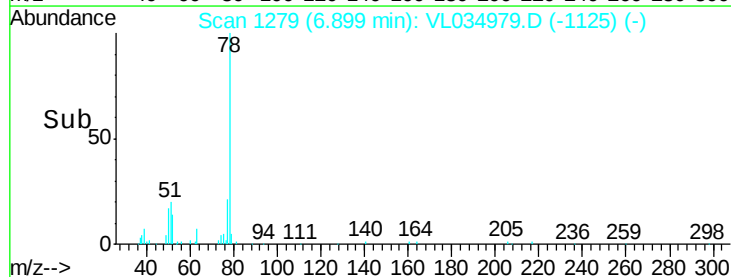
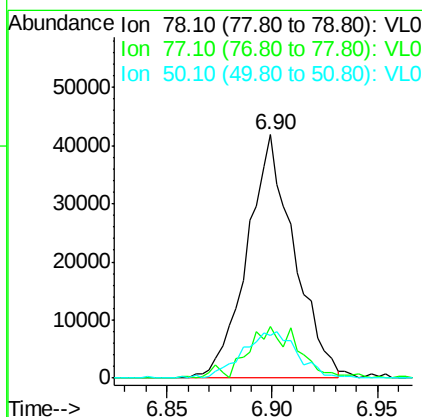
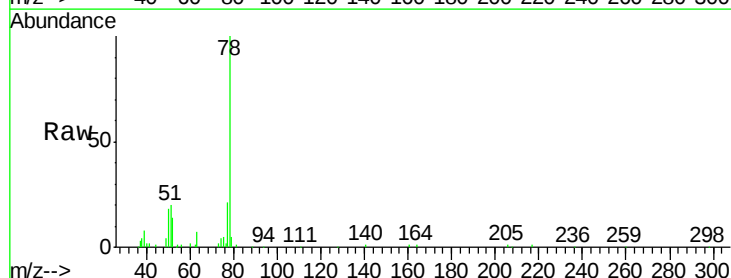
Manual Integrations
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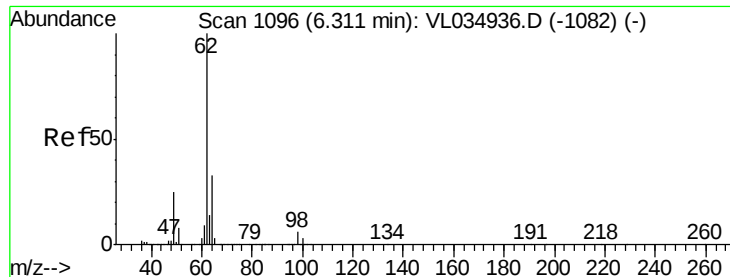
MMDadoda
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#36
Benzene
Concen: 0.333 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. -0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.5	19.0	28.6
50	17.7	15.8	23.8





#37

1,2-Dichloroethane

Concen: 0.451 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 62 Resp: 54178

Ion Ratio Lower Upper

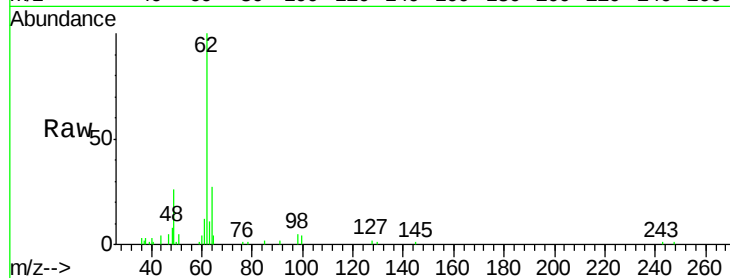
62 100

98 7.0 4.8 7.2

Manual Integrations
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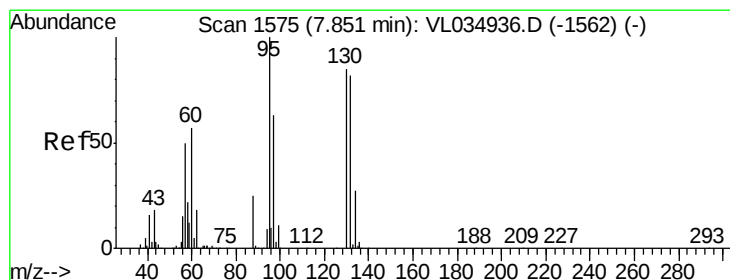
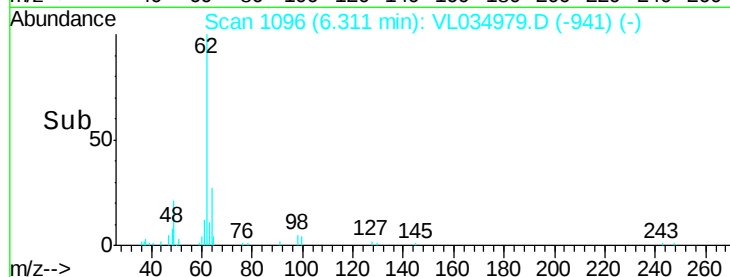
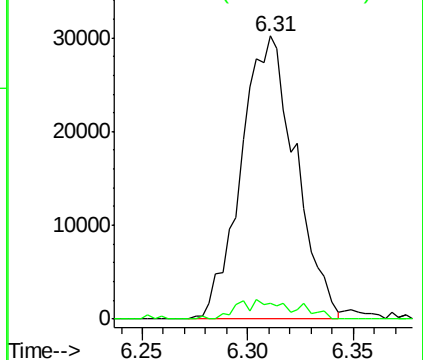
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.360 ppbv m

RT: 7.85 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion: 130 Resp: 27132

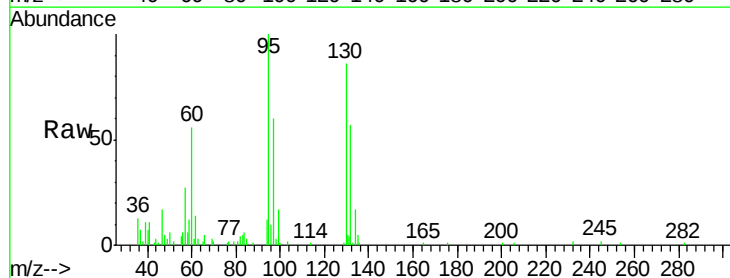
Ion Ratio Lower Upper

130 100

95 116.6 93.4 140.0

132 66.0 76.4 114.6#

97 70.1 58.5 87.7

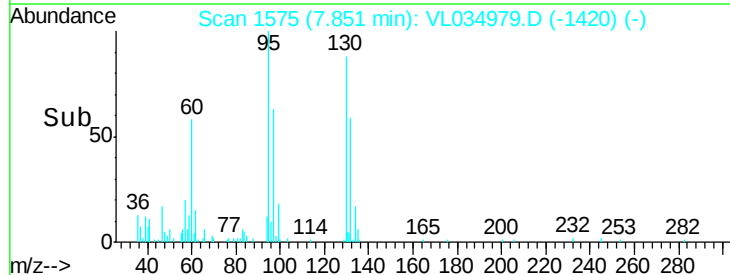
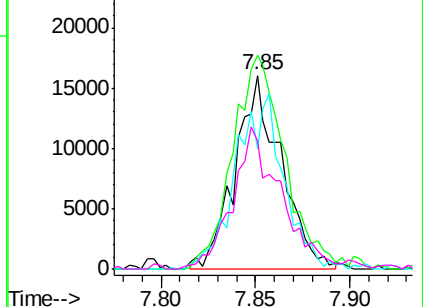


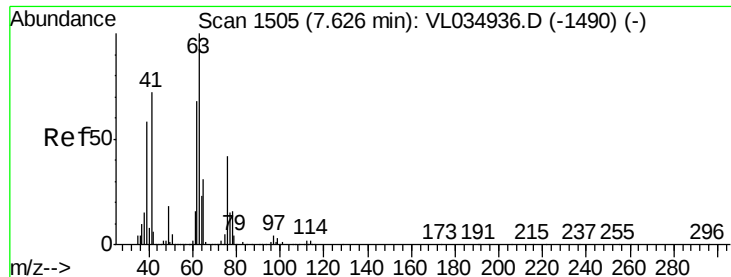
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 0.411 ppbv m

RT: 7.63 min Scan# 1507

Delta R.T. 0.01 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

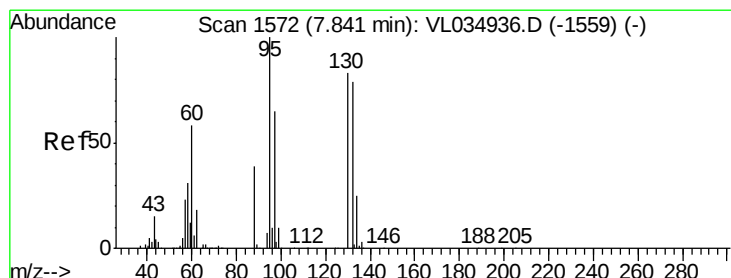
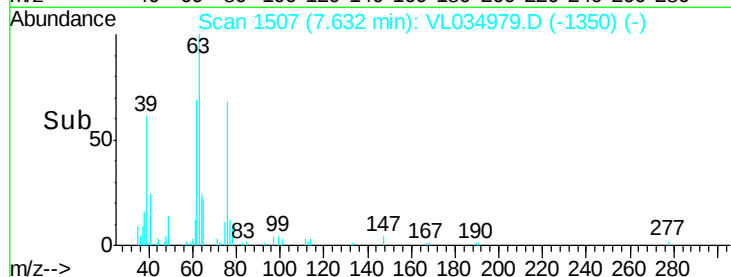
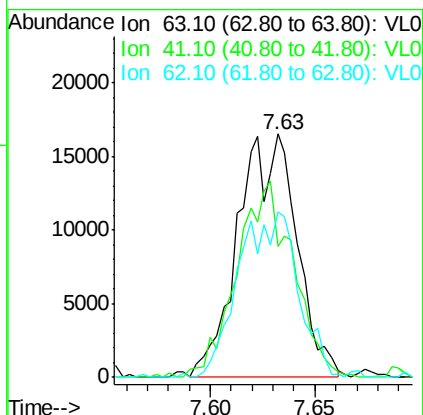
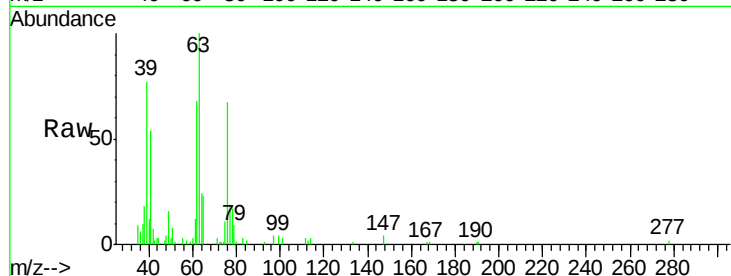
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	63	Resp:	32050
Ion	Ratio	Lower	Upper
63	100		
41	53.6	57.8	86.8#
62	68.2	54.2	81.2

Manual Integrations
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#40

1,4-Dioxane

Concen: 0.354 ppbv m

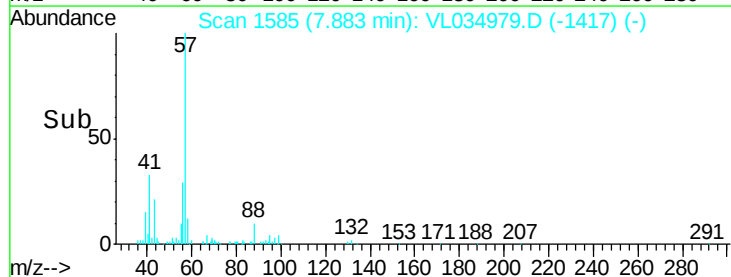
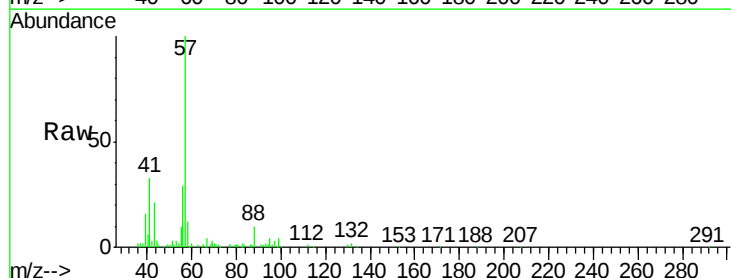
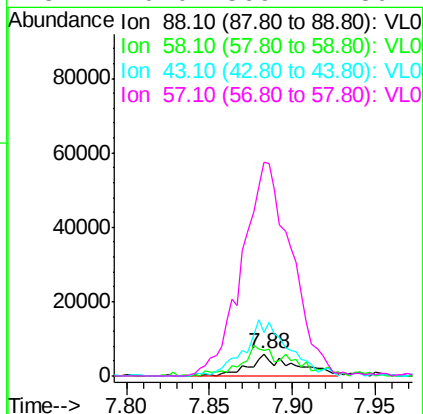
RT: 7.88 min Scan# 1585

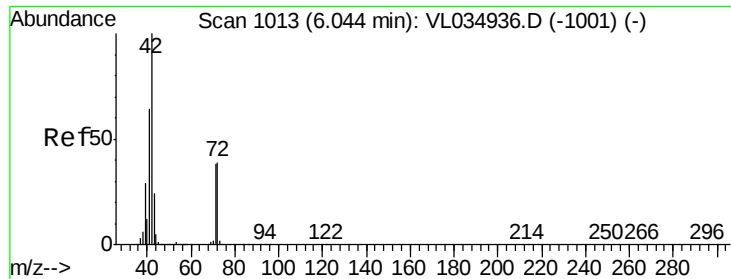
Delta R.T. 0.04 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:	88	Resp:	11224
Ion	Ratio	Lower	Upper
88	100		
58	0.0	105.1	157.7#
43	0.0	202.6	303.8#
57	0.0	869.4	1304.0#





#41

Tetrahydrofuran

Concen: 0.302 ppbv m

RT: 6.08 min Scan# 1024

Delta R.T. 0.04 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

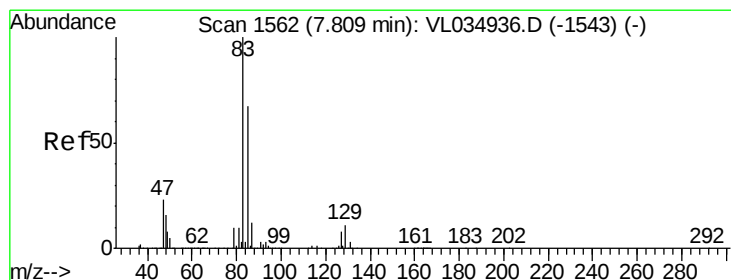
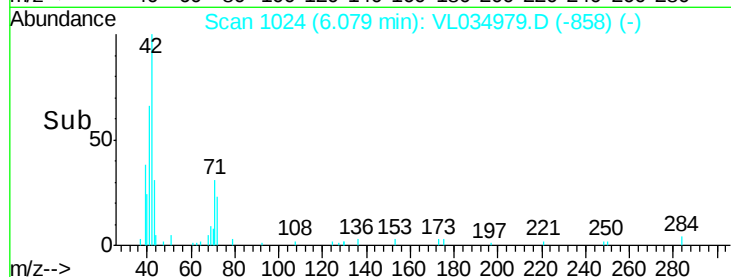
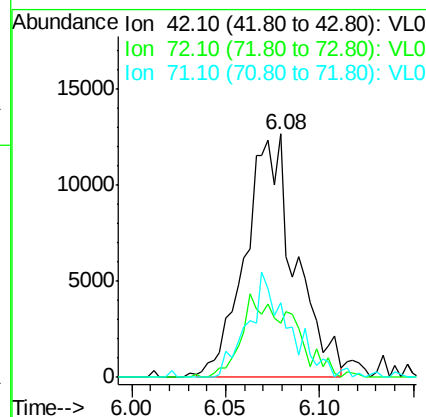
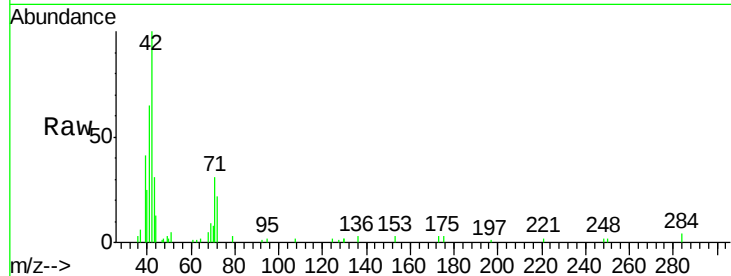
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	42	Resp:	23344
Ion	Ratio	Lower	Upper
42	100		
72	35.2	31.4	47.0
71	36.8	29.8	44.8

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.409 ppbv

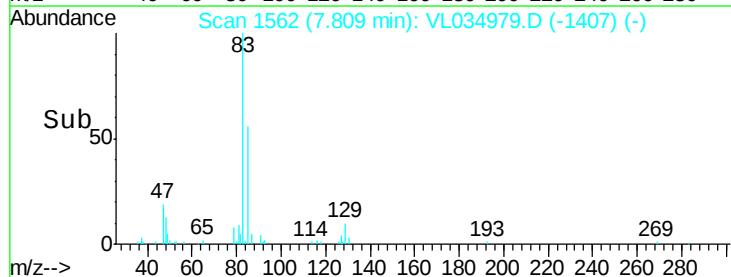
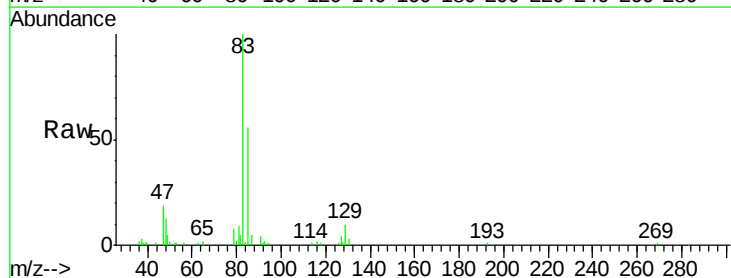
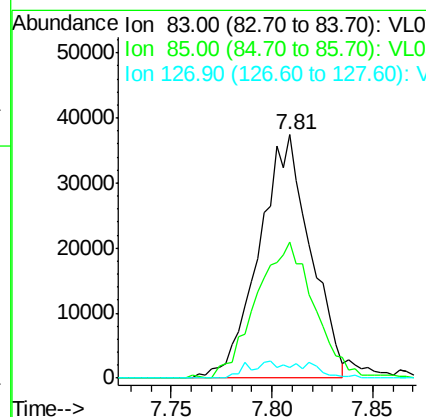
RT: 7.81 min Scan# 1562

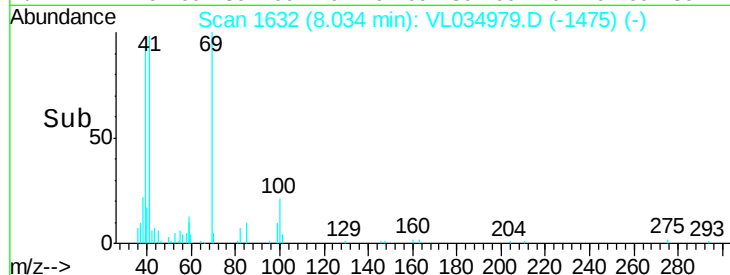
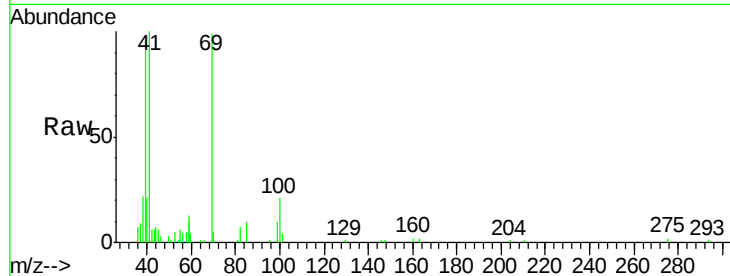
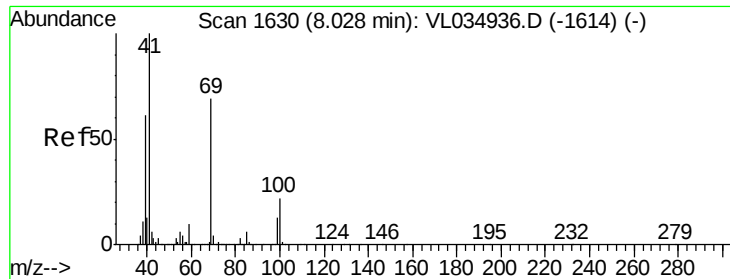
Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:	83	Resp:	66287
Ion	Ratio	Lower	Upper
83	100		
85	53.8	53.4	80.0
127	4.4	6.1	9.1#





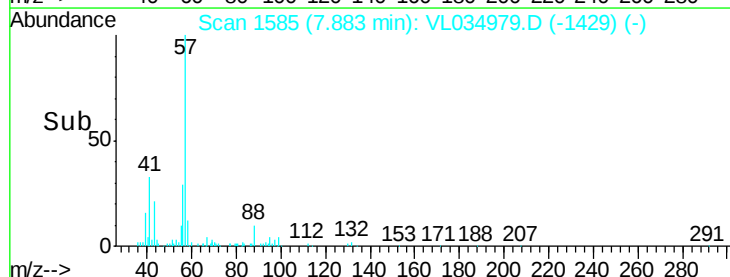
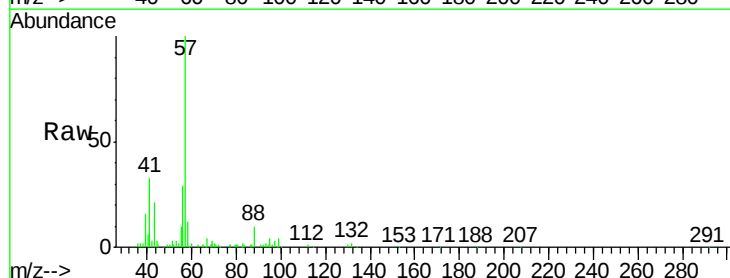
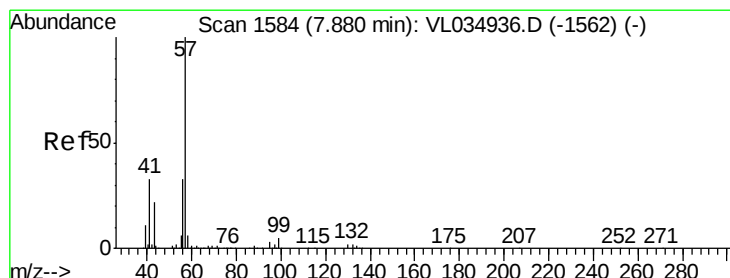
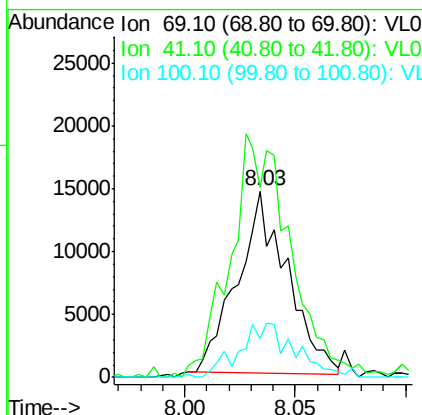
#43
Methvl Methacrylate
Concen: 0.277 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		22776		
41	160.5	119.8	179.6		
100	33.3	25.0	37.6		

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

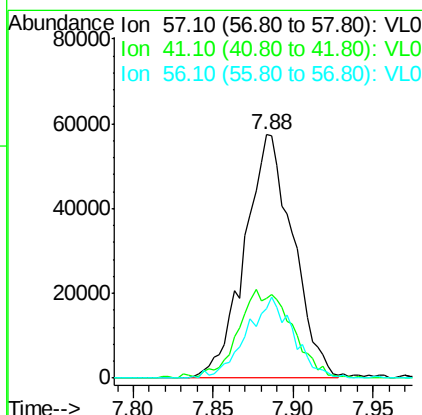
Manual Integrations
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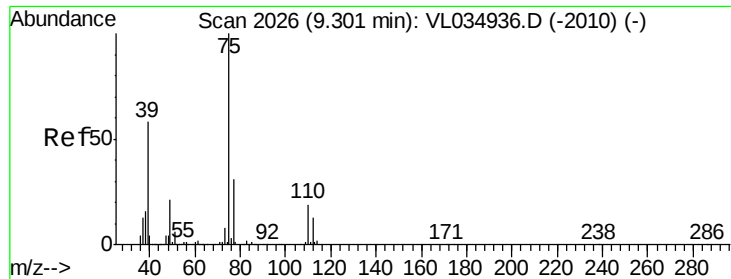
MMDadoda
5/8/2020 5:22:51 PM



#44
2,2,4-Trimethylpentane
Concen: 0.344 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		119233		
41	40.5	26.4	39.6#		
56	32.3	25.5	38.3		





#45

t-1,3-Dichloropropene

Concen: 0.243 ppbv m

RT: 9.30 min Scan# 2027

Delta R.T. 0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 75 Resp: 20175

Ion Ratio Lower Upper

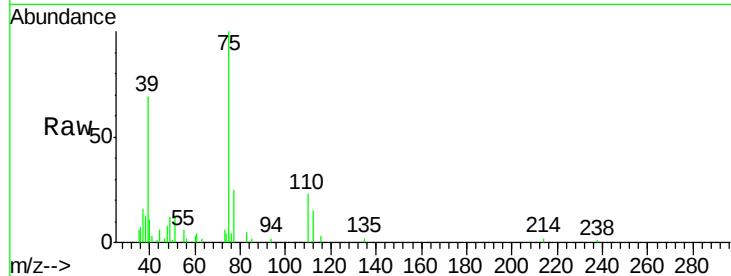
75 100

77 24.6 24.9 37.3#

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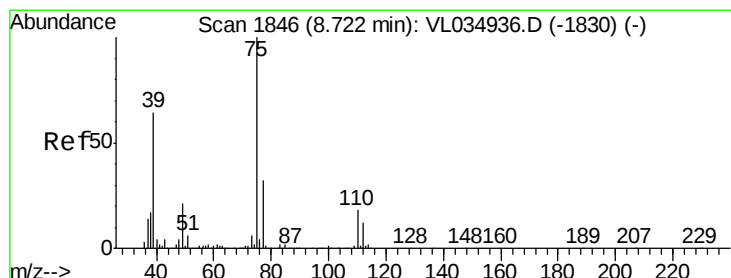
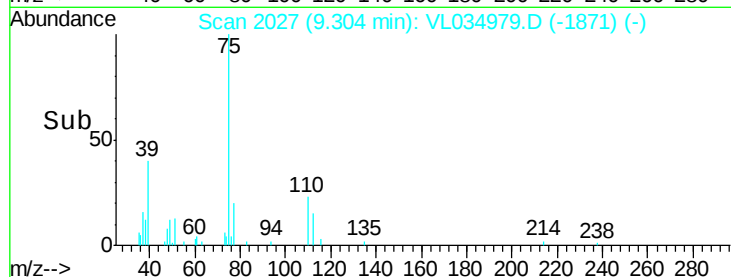
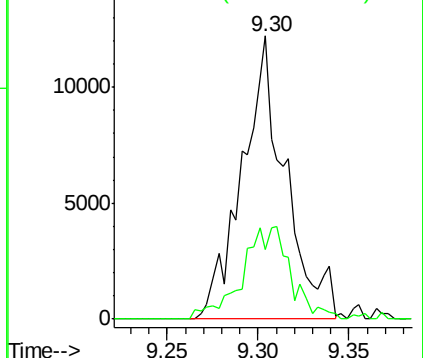
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.270 ppbv m

RT: 8.73 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

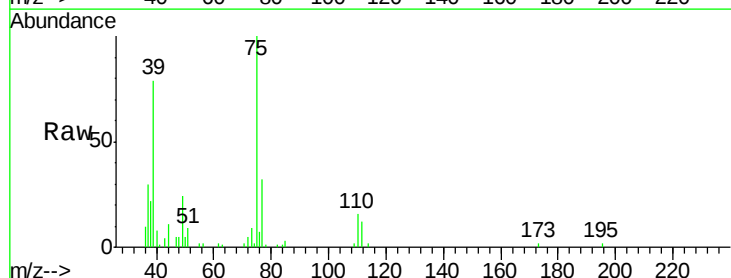
Tgt Ion: 75 Resp: 27516

Ion Ratio Lower Upper

75 100

39 78.5 51.5 77.3#

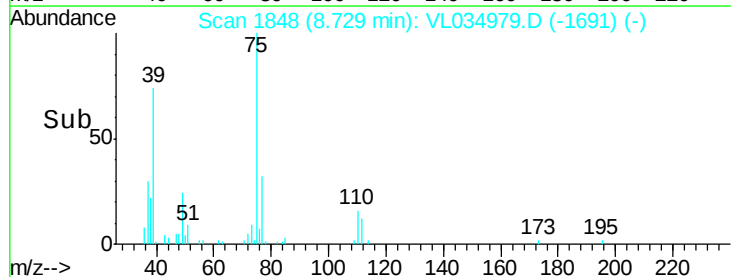
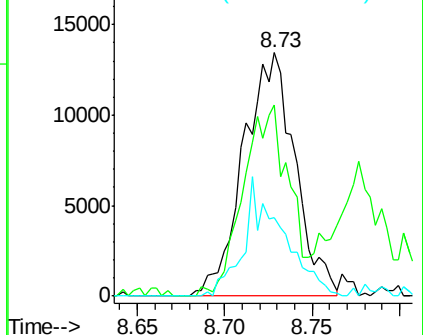
77 32.2 25.5 38.3

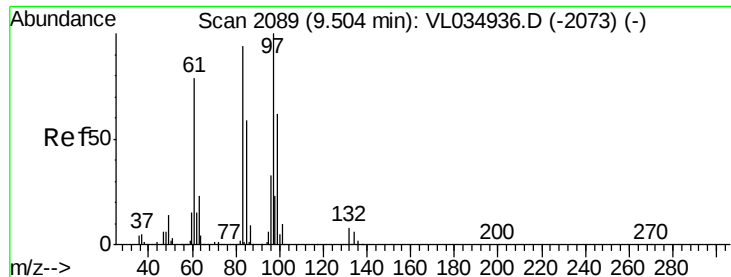


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





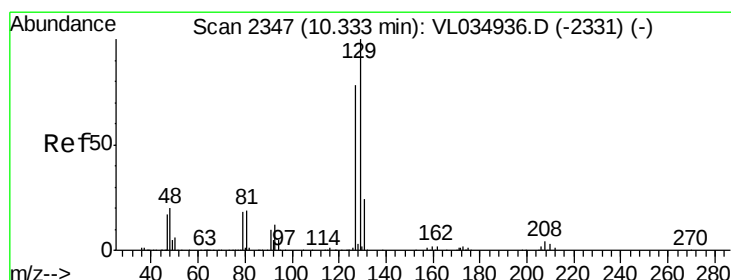
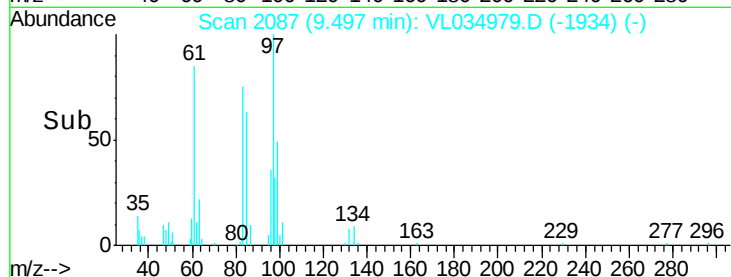
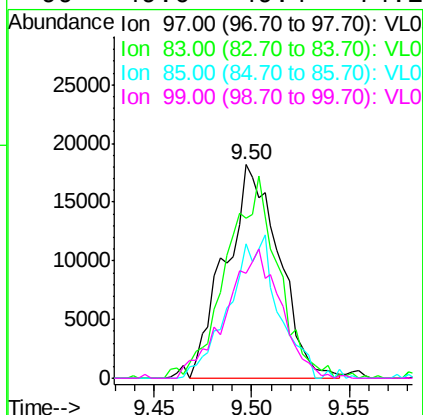
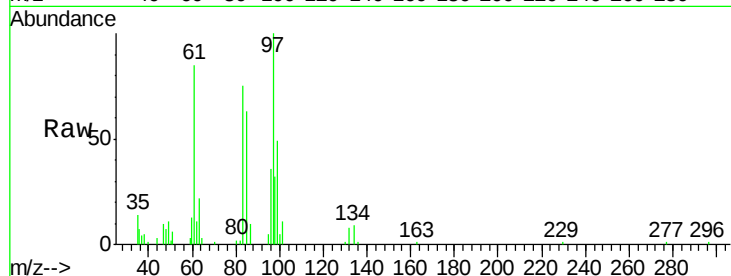
#47
 1,1,2-Trichloroethane
 Concen: 0.423 ppbv m
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
97	100		
83	74.8	75.6	113.4#
85	63.2	47.0	70.6
99	49.0	49.4	74.2#

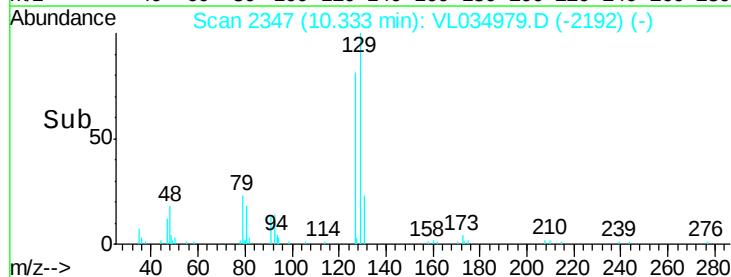
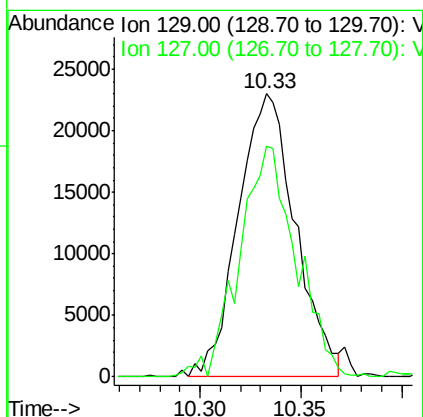
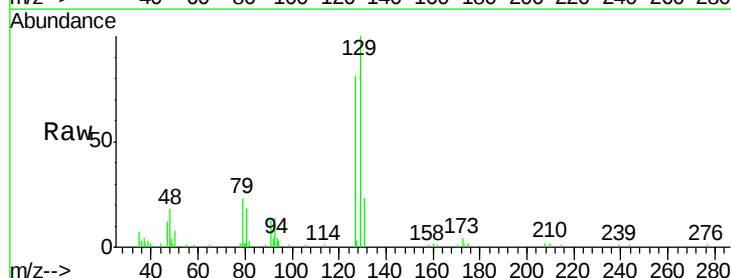
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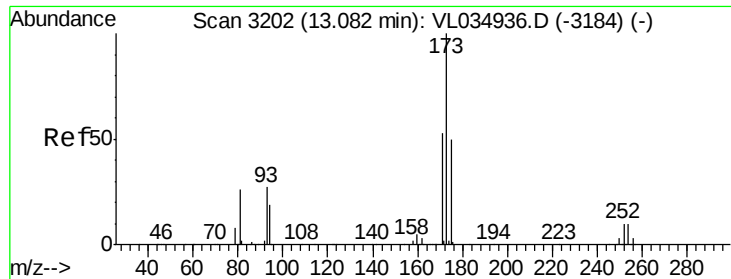
MMDadoda
 5/8/2020 5:22:51 PM



#48
 Dibromochloromethane
 Concen: 0.359 ppbv
 RT: 10.33 min Scan# 2347
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.1	39.1	117.2





#49

Bromoform

Concen: 0.352 ppbv m

RT: 13.09 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

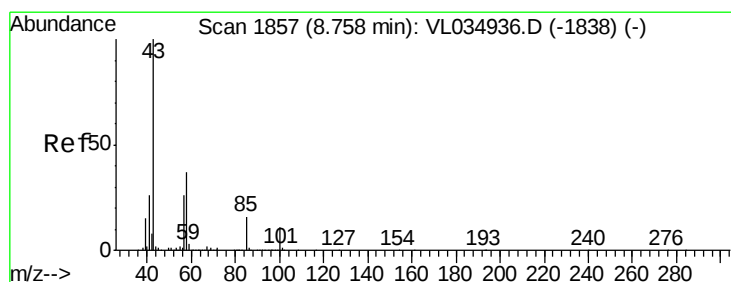
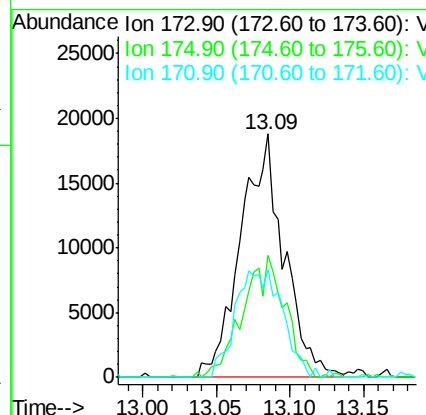
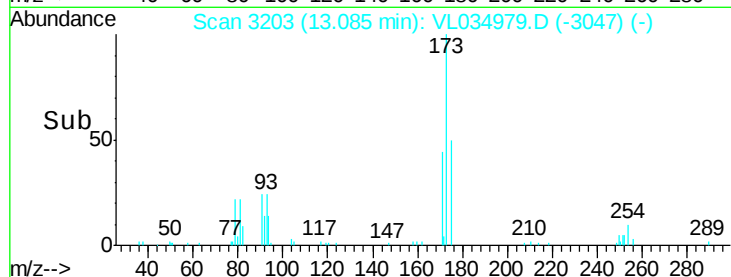
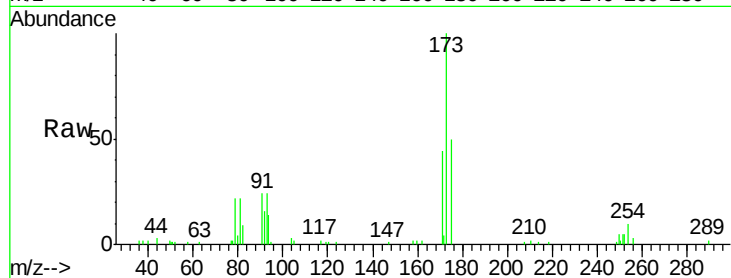
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	173	Resp:	38389
Ion Ratio	Lower	Upper	
173	100		
175	0.0	39.0	58.6#
171	0.0	41.4	62.2#

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.307 ppbv

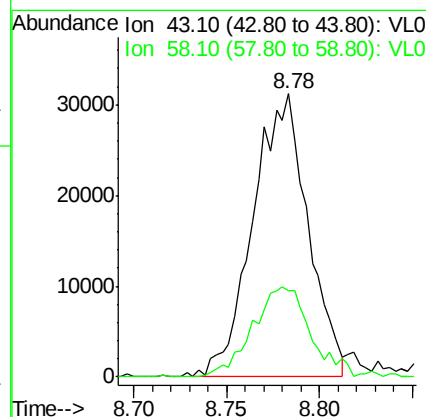
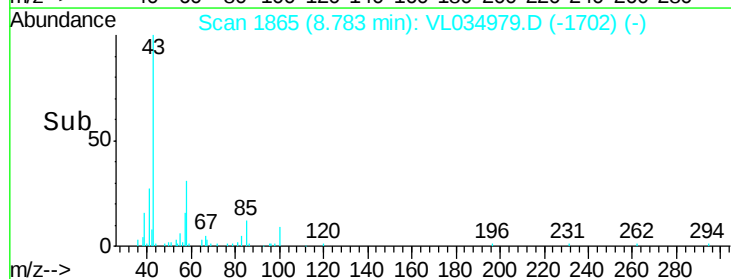
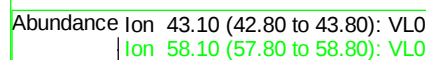
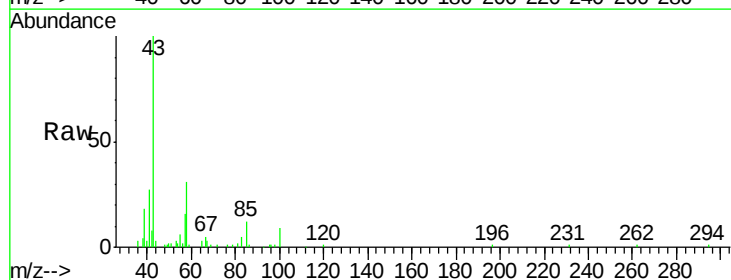
RT: 8.78 min Scan# 1865

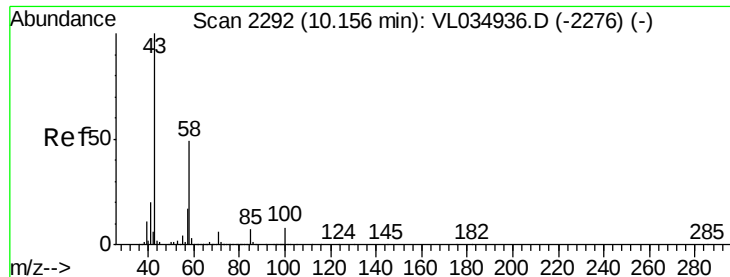
Delta R.T. 0.03 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:	43	Resp:	64287
Ion Ratio	Lower	Upper	
43	100		
58	34.0	29.1	43.7





#51

2-Hexanone

Concen: 0.276 ppbv m

RT: 10.18 min Scan# 2299

Delta R.T. 0.02 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

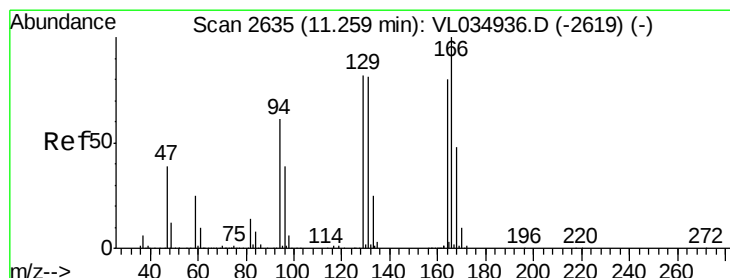
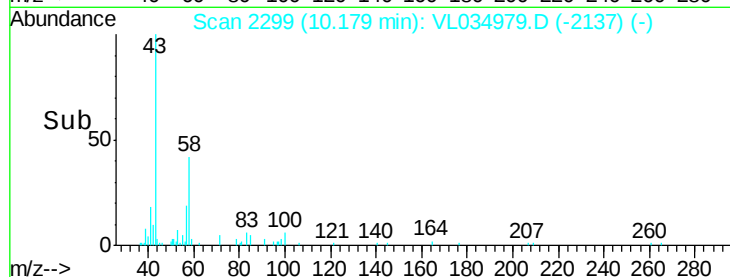
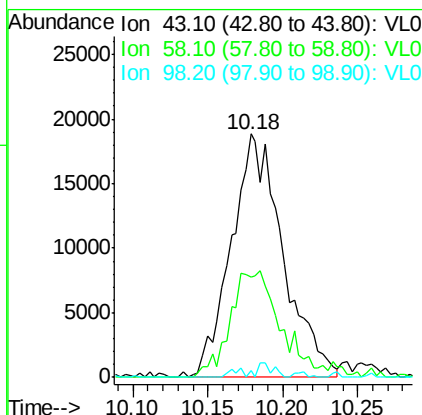
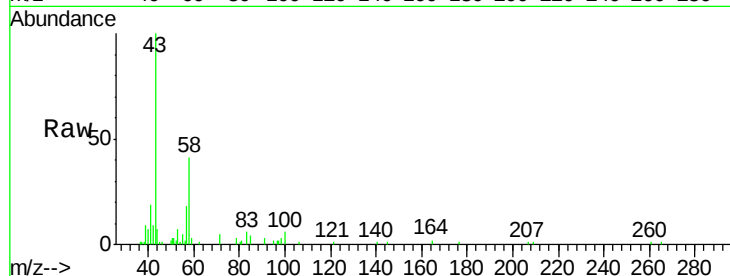
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	43	Resp:	45142
Ion Ratio	Lower	Upper	
43	100		
58	0.0	39.1	58.7#
98	0.3	0.3	0.5#

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#52

Tetrachloroethene

Concen: 0.361 ppbv m

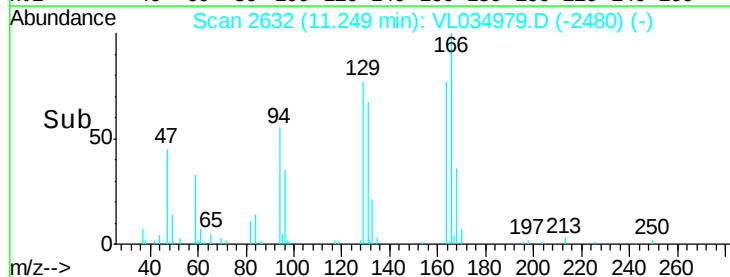
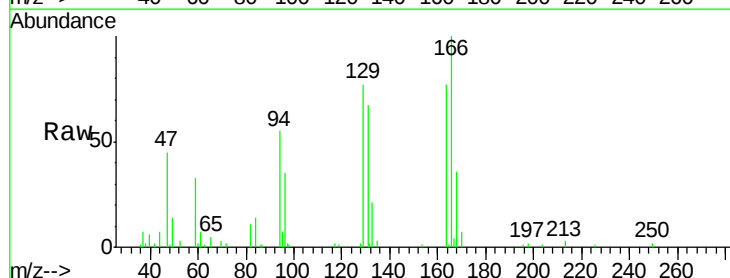
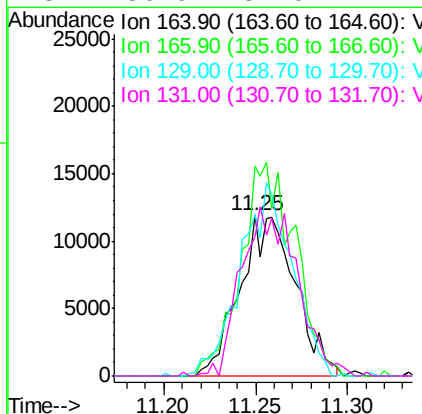
RT: 11.25 min Scan# 2632

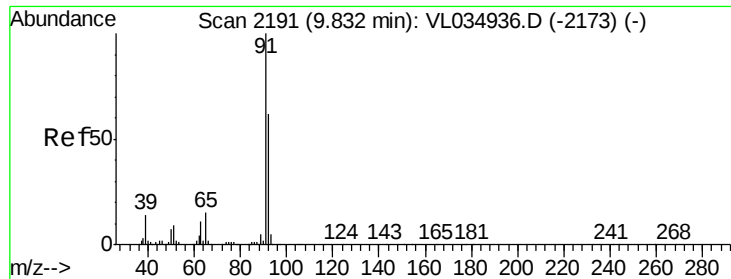
Delta R.T. -0.01 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:	164	Resp:	24990
Ion Ratio	Lower	Upper	
164	100		
166	130.6	100.7	151.1
129	100.5	83.0	124.4
131	86.9	81.0	121.4





#53

Toluene

Concen: 0.245 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 91 Resp: 50510

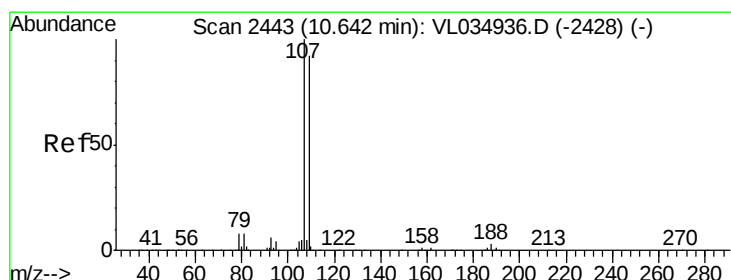
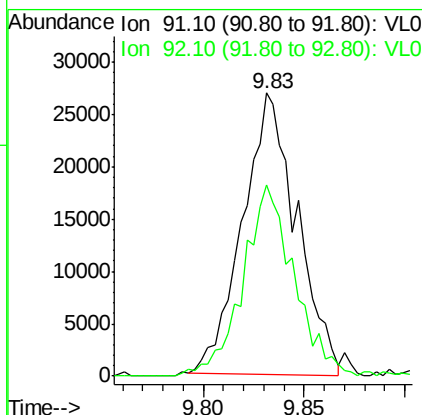
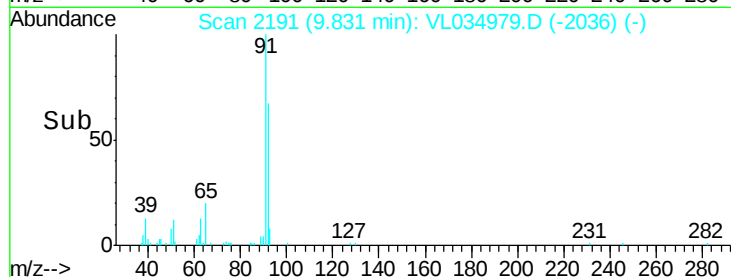
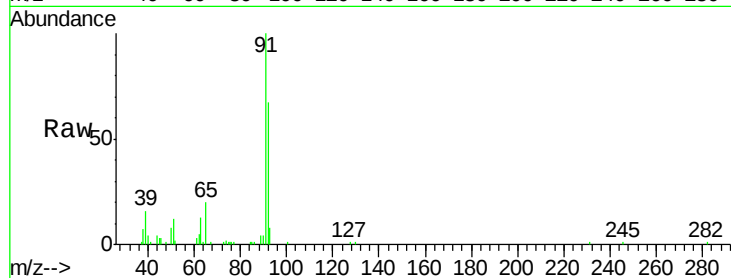
Ion Ratio Lower Upper

91 100

92 64.0 48.6 73.0

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#54

1,2-Dibromoethane

Concen: 0.374 ppbv m

RT: 10.64 min Scan# 2442

Delta R.T. -0.00 min

Lab File: VL034979.D

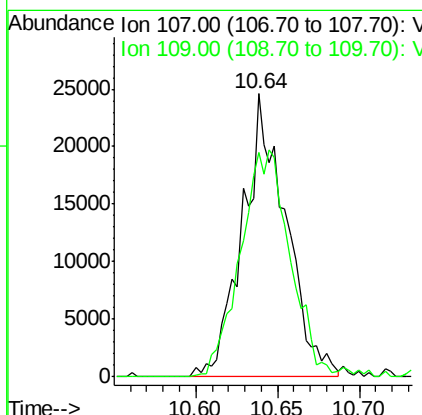
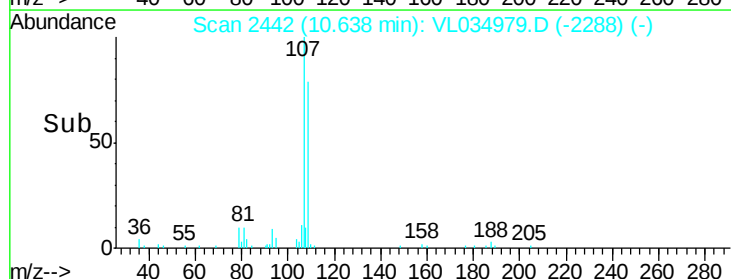
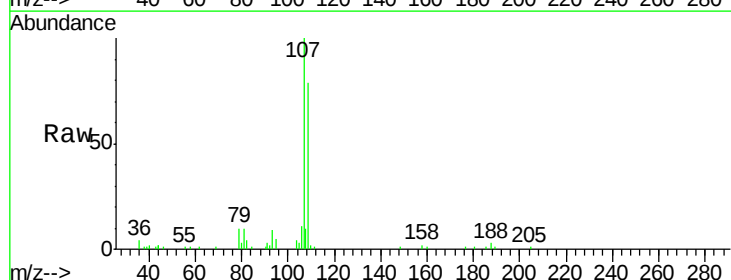
Acq: 7 May 2020 22:32

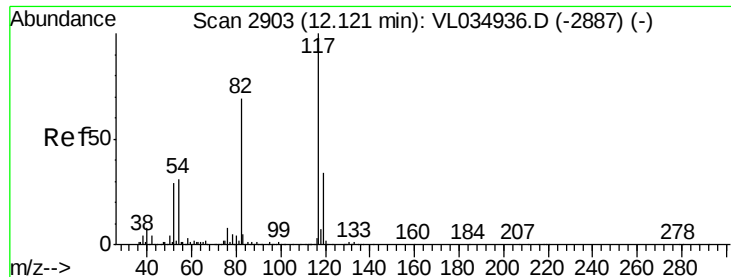
Tgt Ion: 107 Resp: 45254

Ion Ratio Lower Upper

107 100

109 79.2 73.2 109.8





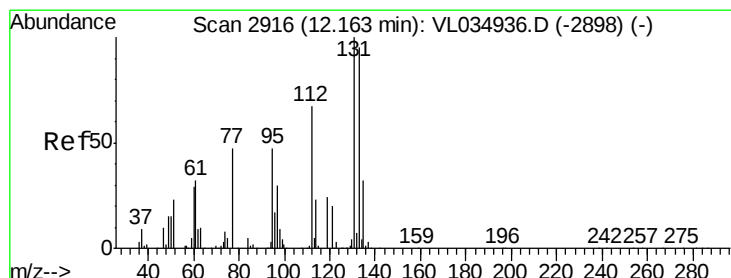
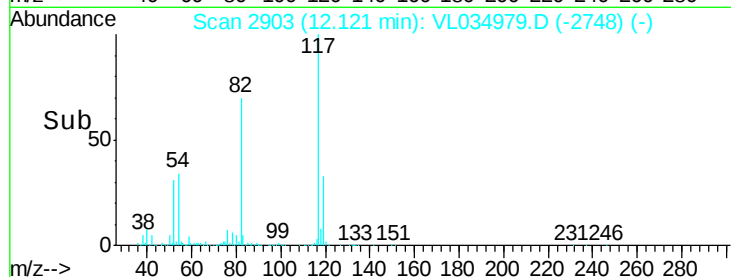
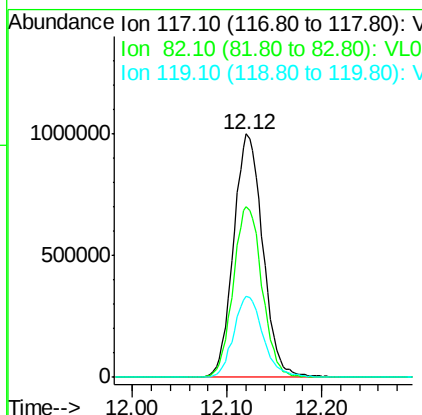
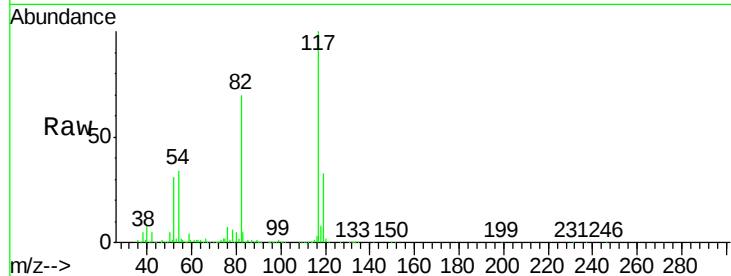
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.3	53.1	79.7
119	33.6	26.7	40.1

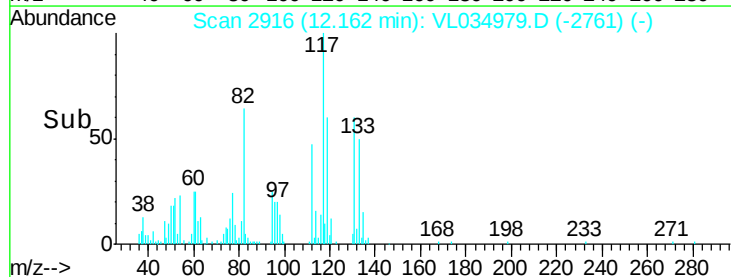
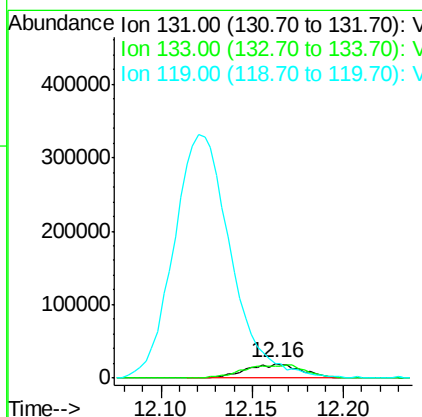
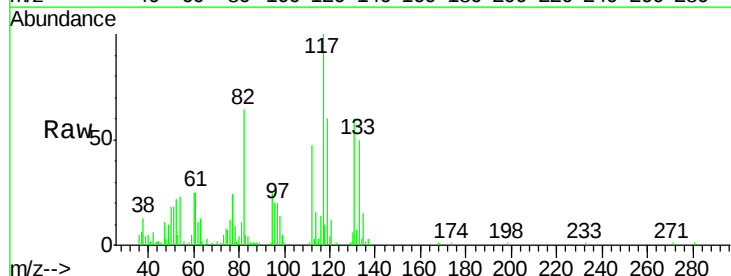
Manual Integrations
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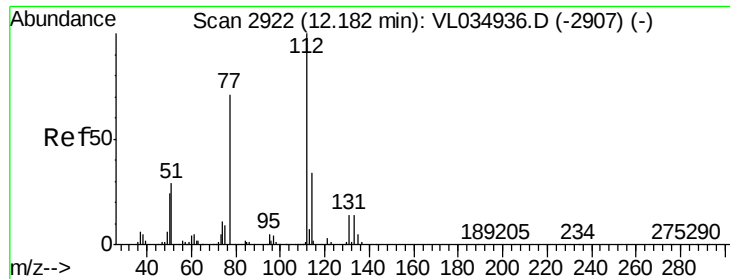
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.423 ppbv m
RT: 12.16 min Scan# 2916
Delta R.T. -0.00 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
131	100		
133	106.7	77.7	116.5
119	0.0	49.8	74.6#





#57

Chlorobenzene

Concen: 0.481 ppbv

RT: 12.18 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

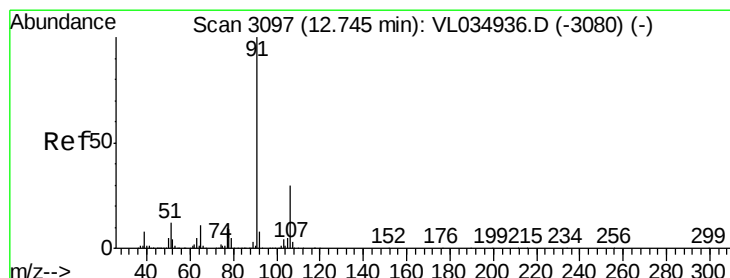
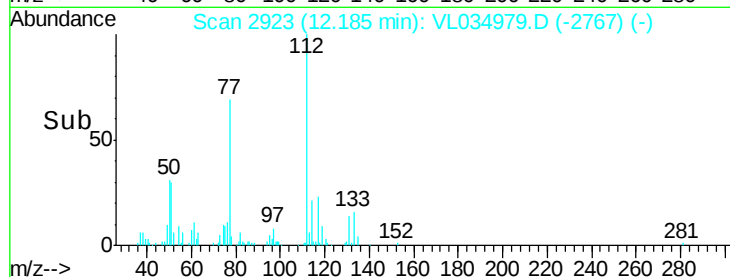
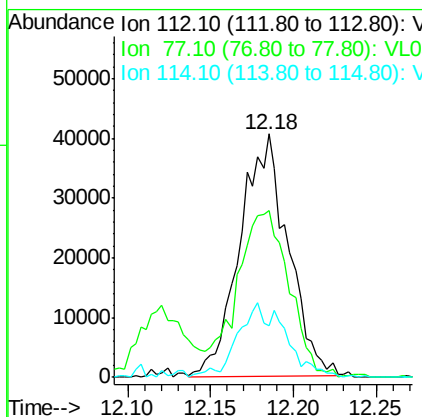
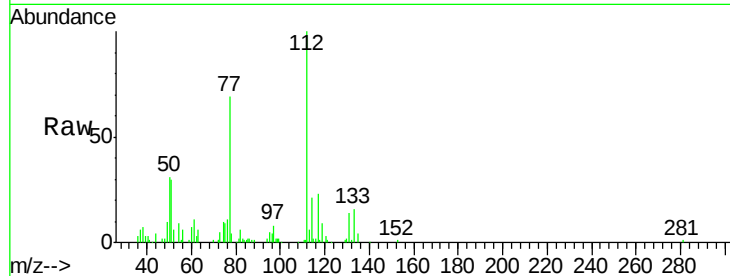
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	112	Resp:	81835
Ion Ratio	Lower	Upper	
112	100		
77	65.6	57.0	85.6
114	20.2	30.8	37.6#

Manual Integrations
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#58

Ethyl Benzene

Concen: 0.295 ppbv m

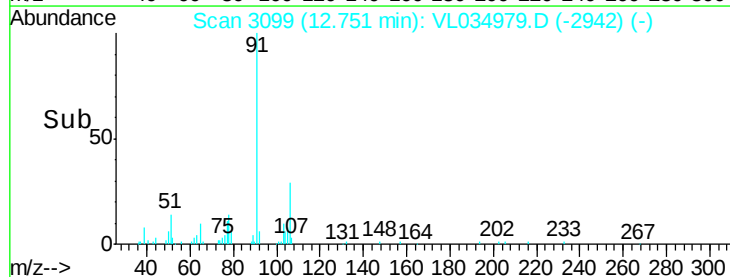
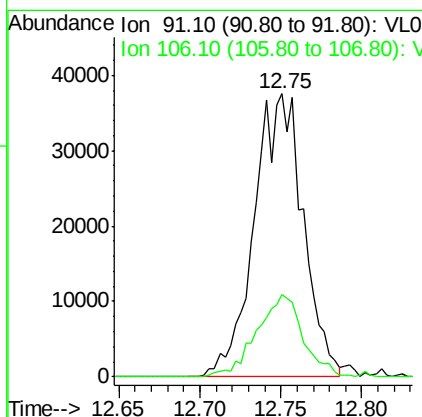
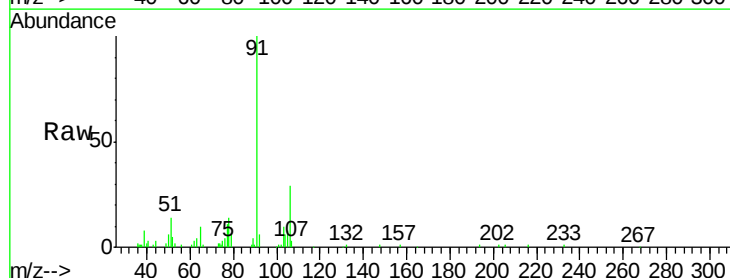
RT: 12.75 min Scan# 3099

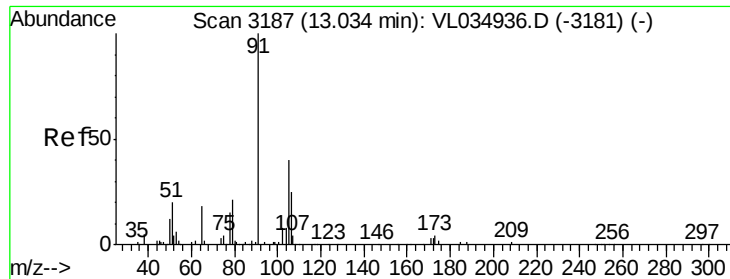
Delta R.T. 0.01 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:	91	Resp:	78510
Ion Ratio	Lower	Upper	
91	100		
106	29.0	24.2	36.4





#59

m/p-Xylene

Concen: 0.736 ppbv m

RT: 13.03 min Scan# 3187

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 91 Resp: 172177

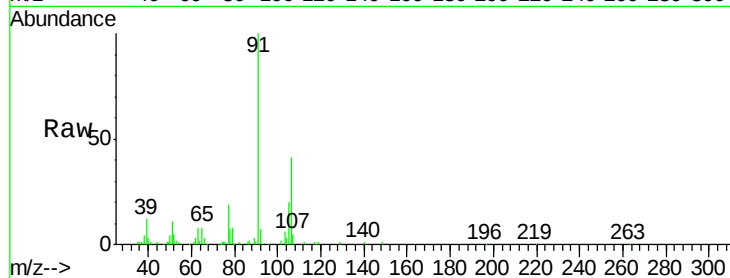
Ion Ratio Lower Upper

91 100

106 40.1 66.0 99.0#

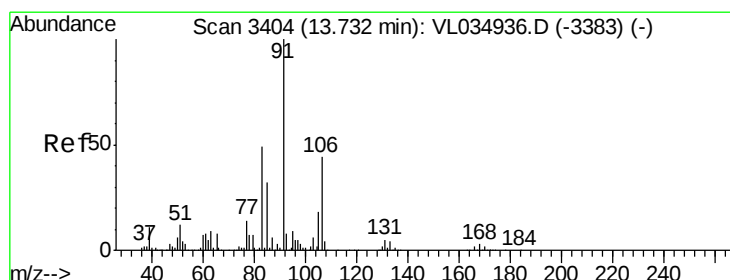
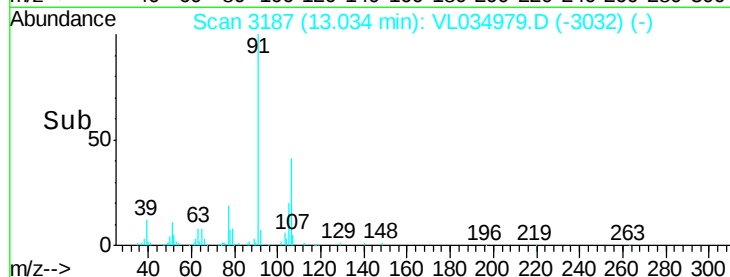
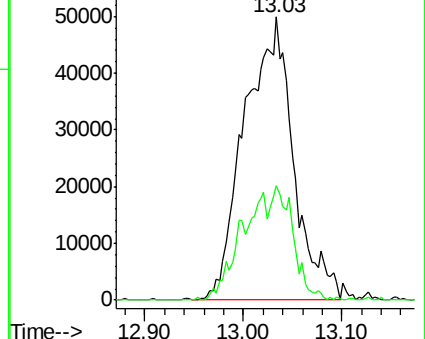
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.340 ppbv m

RT: 13.73 min Scan# 3403

Delta R.T. -0.00 min

Lab File: VL034979.D

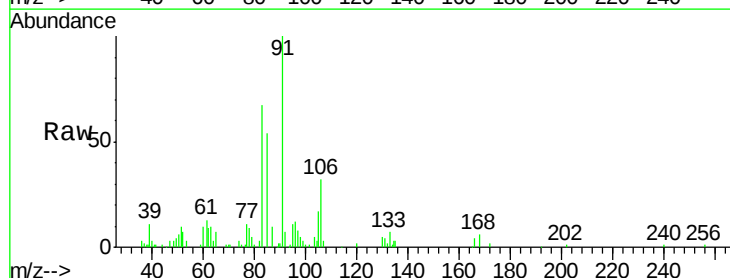
Acq: 7 May 2020 22:32

Tgt Ion: 91 Resp: 78543

Ion Ratio Lower Upper

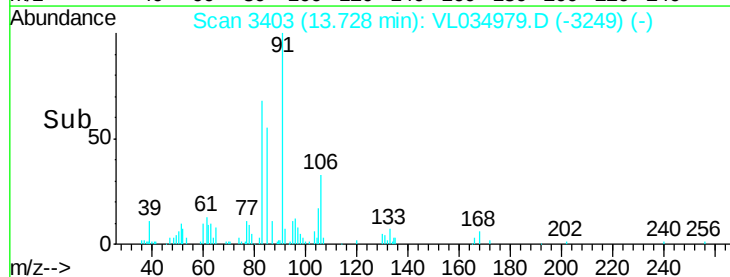
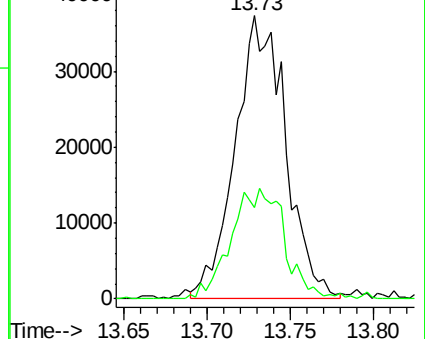
91 100

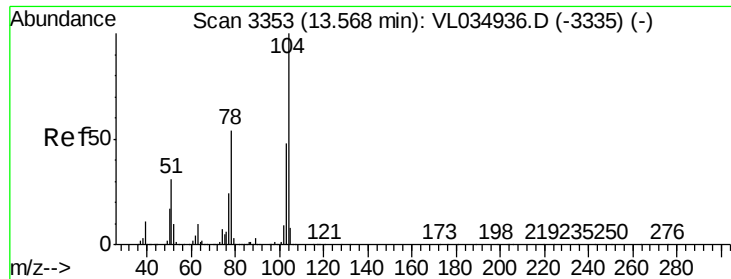
106 41.8 21.9 65.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.234 ppbv m

RT: 13.57 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

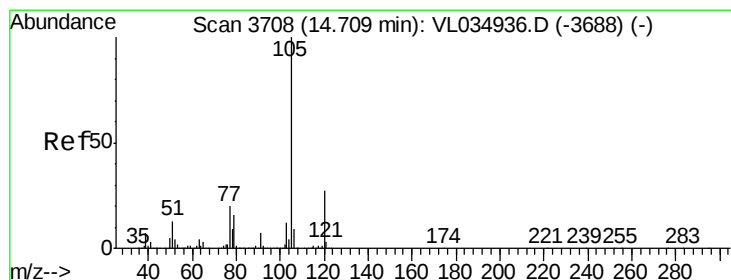
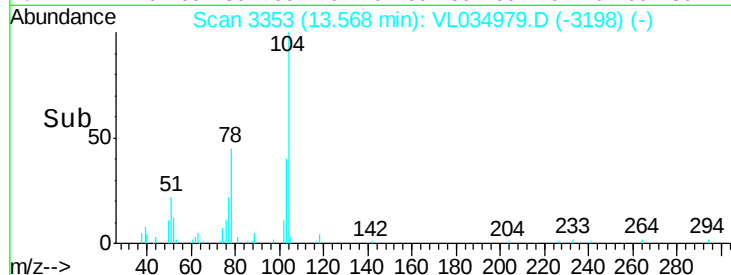
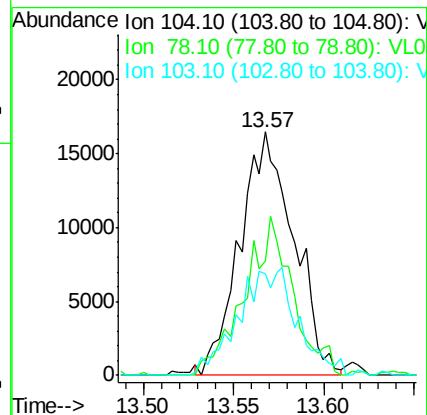
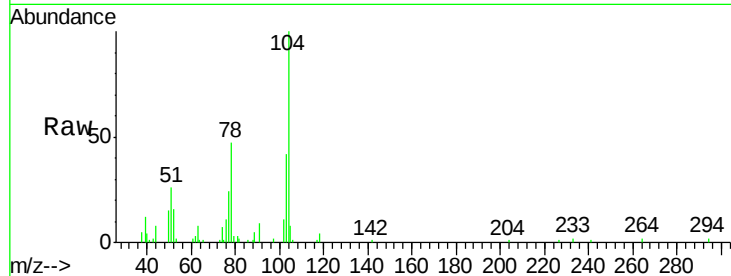
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	104	Resp:	34169
Ion Ratio	Lower	Upper	
104	100		
78	58.8	43.7	65.5
103	48.5	38.8	58.2

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#62

Isopropylbenzene

Concen: 0.354 ppbv

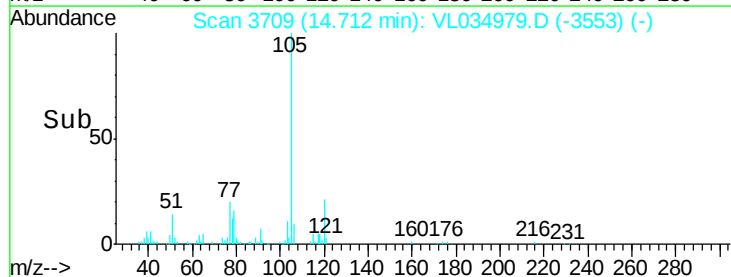
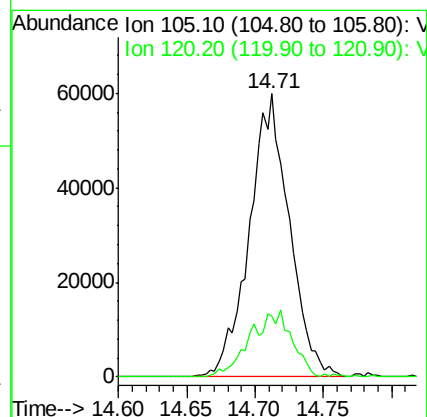
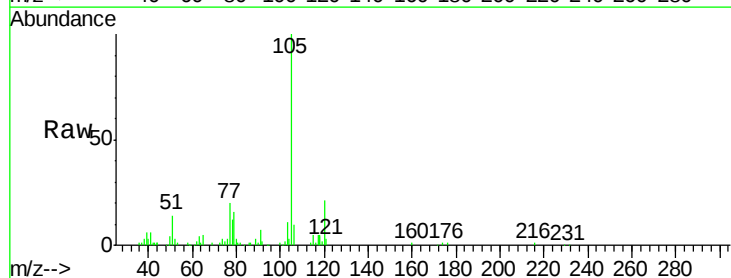
RT: 14.71 min Scan# 3709

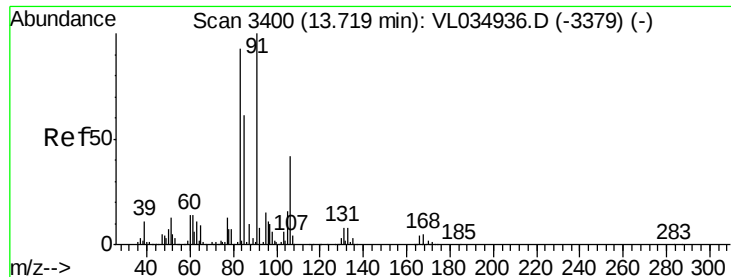
Delta R.T. 0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:	105	Resp:	121906
Ion Ratio	Lower	Upper	
105	100		
120	24.9	20.6	31.0





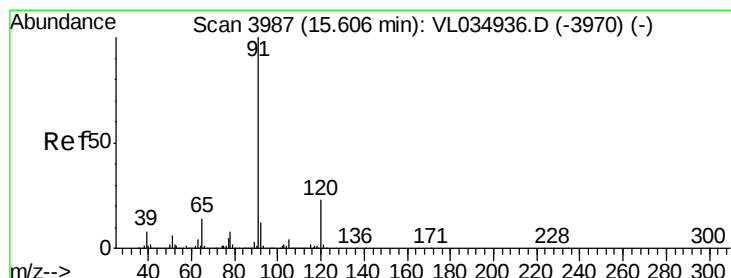
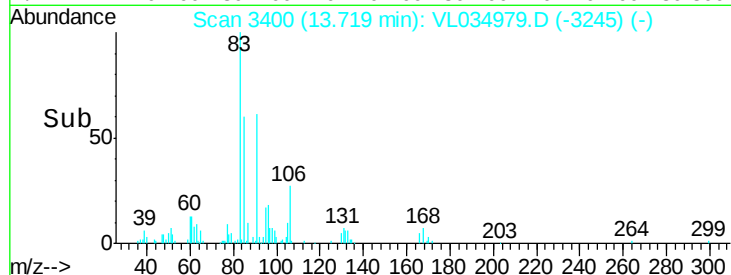
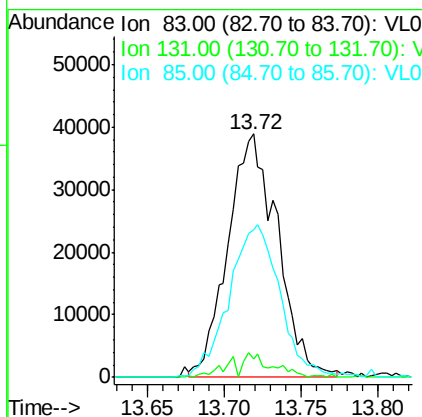
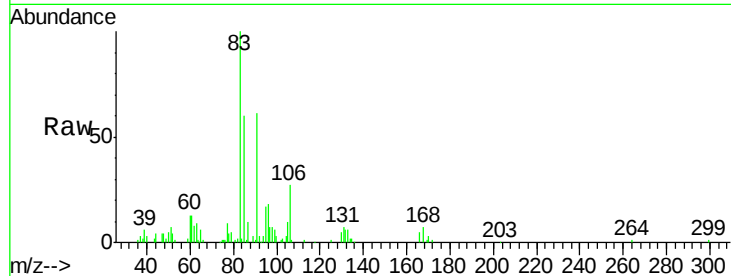
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.481 ppbv m
 RT: 13.72 min Scan# 3400
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion	83	Resp	87426
Ion	Ratio	Lower	Upper
83	100		
131	8.2	4.7	14.0
85	64.4	32.5	97.4

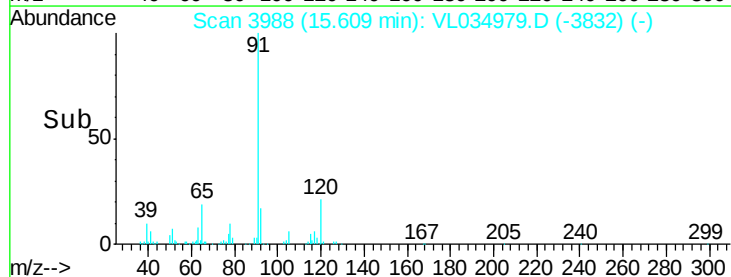
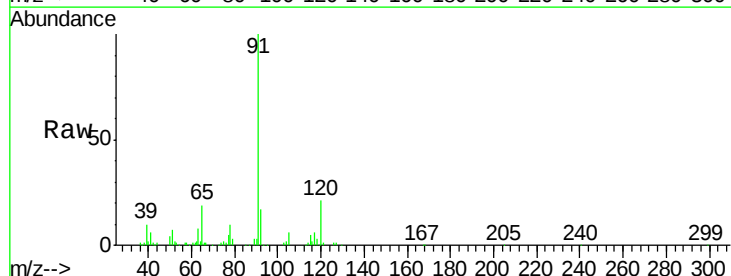
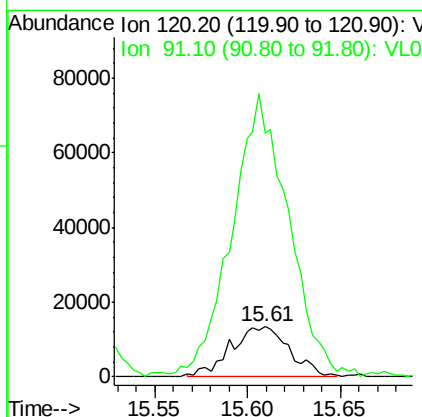
Manual Integrations
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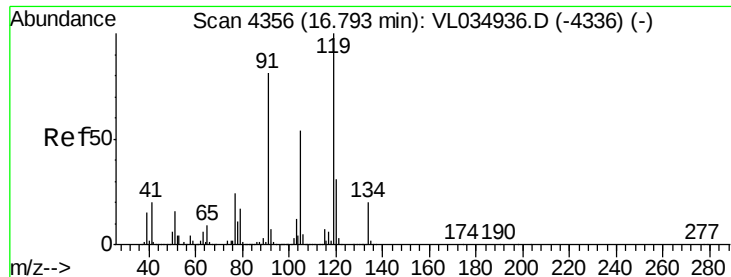
MMDadoda
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#64
 n-propylbenzene
 Concen: 0.335 ppbv m
 RT: 15.61 min Scan# 3988
 Delta R.T. 0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	120	Resp	29599
Ion	Ratio	Lower	Upper
120	100		
91	550.0	373.5	560.3





#65

tert-Butylbenzene

Concen: 0.319 ppbv m

RT: 16.80 min Scan# 4357

Delta R.T. 0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

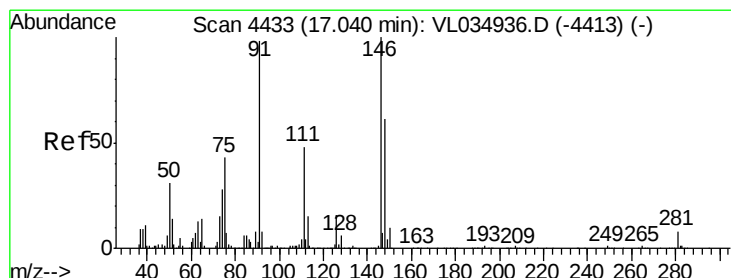
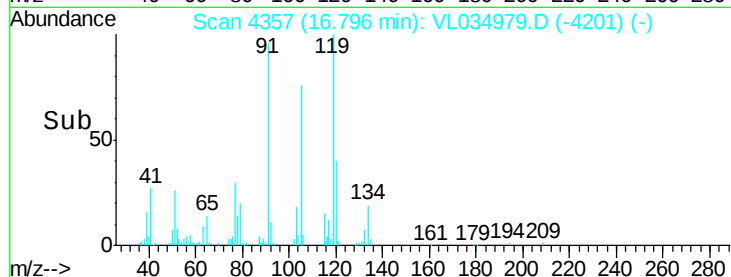
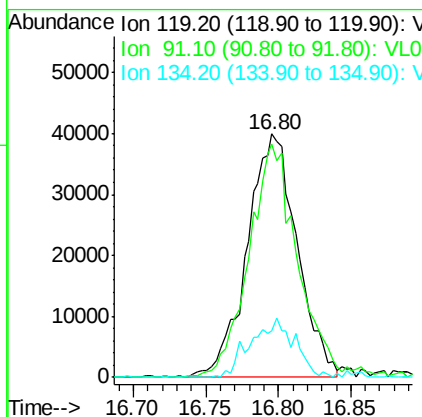
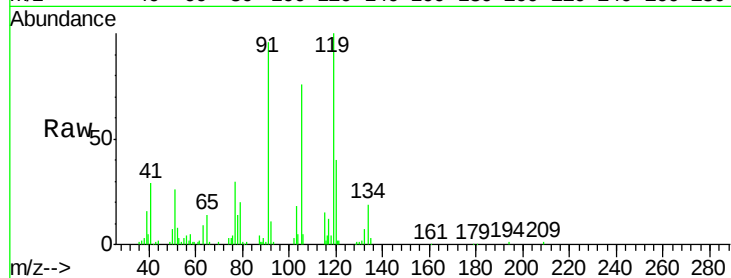
ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:	119	Resp:	95430
Ion	Ratio	Lower	Upper
119	100		
91	95.4	67.5	101.3
134	22.0	16.1	24.1

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.316 ppbv m

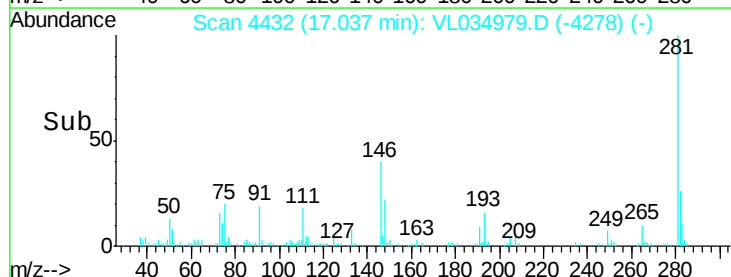
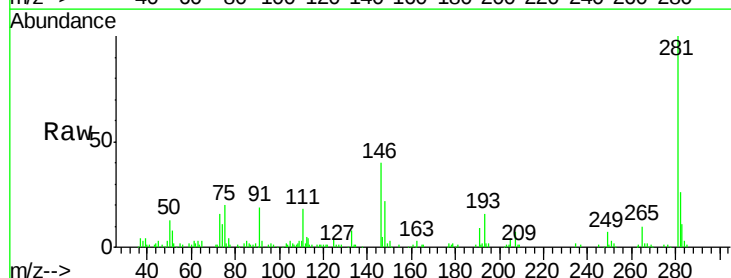
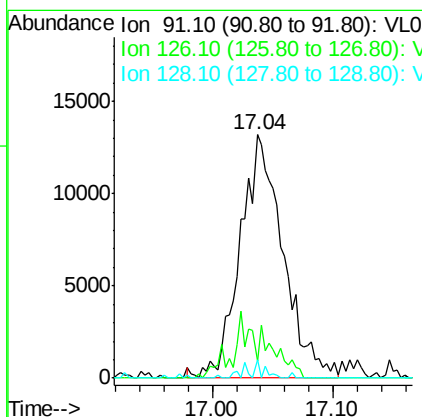
RT: 17.04 min Scan# 4432

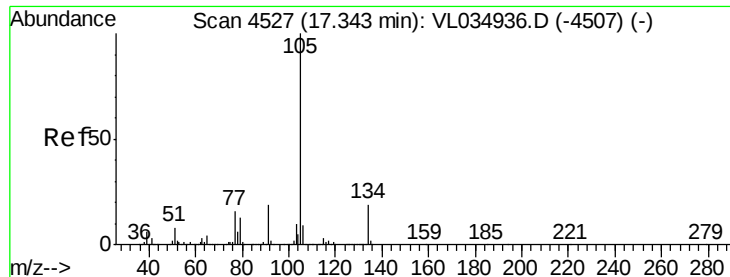
Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:	91	Resp:	32061
Ion	Ratio	Lower	Upper
91	100		
126	20.6	13.8	20.6
128	2.7	4.3	6.5#





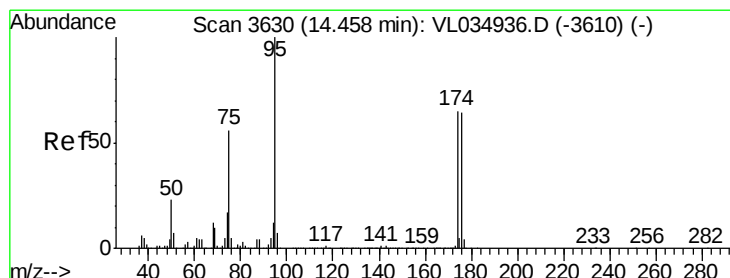
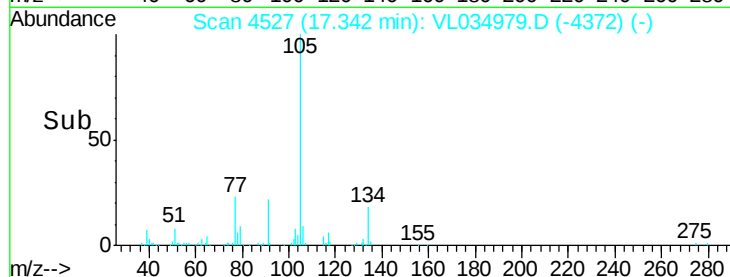
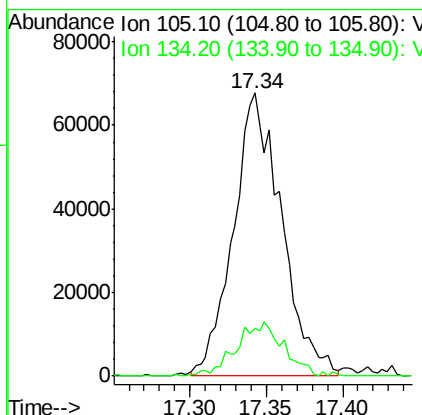
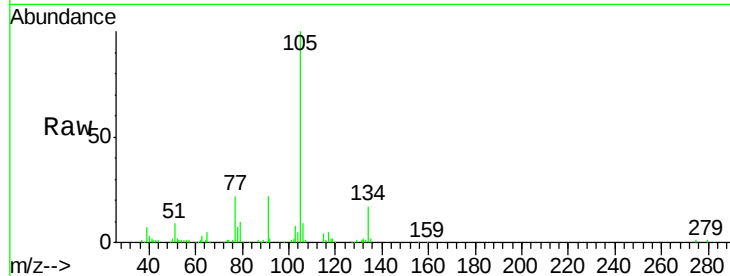
#67
 sec-Butylbenzene
 Concen: 0.348 ppbv m
 RT: 17.34 min Scan# 4527
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

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

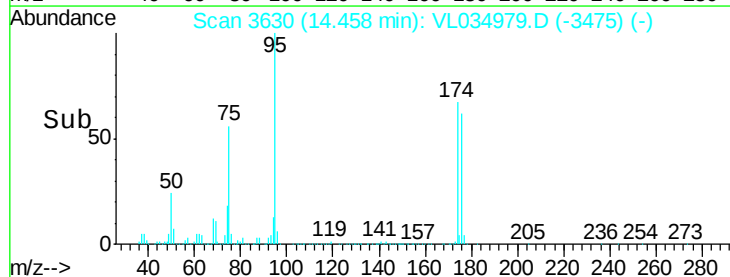
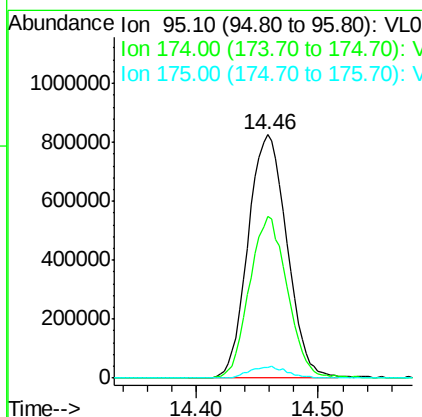
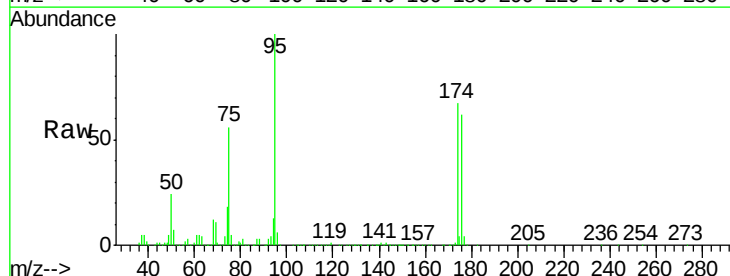
Manual Integrations
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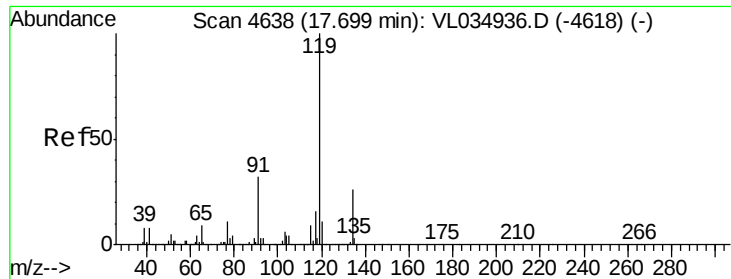
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.446 ppbv
 RT: 14.46 min Scan# 3630
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.8	51.5	77.3
175	4.8	3.8	5.8





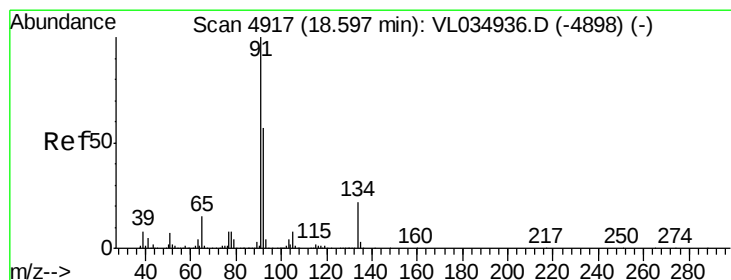
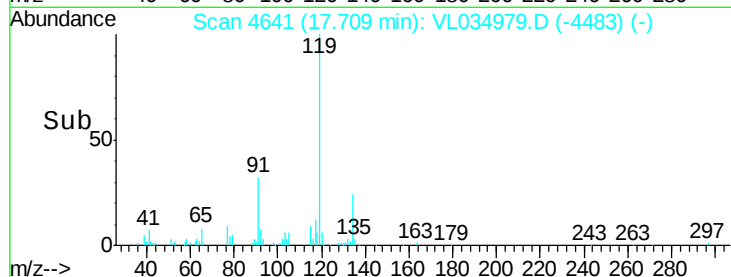
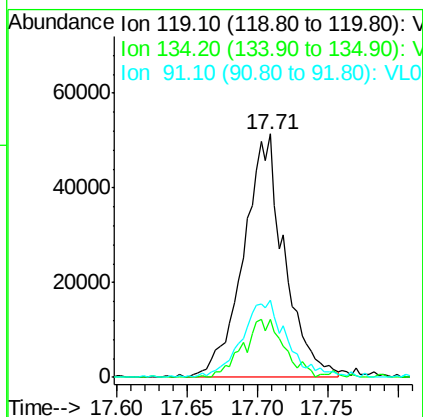
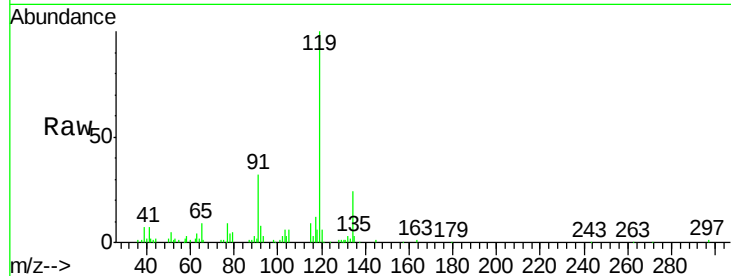
#69
 p-Isopropyltoluene
 Concen: 0.302 ppbv
 RT: 17.71 min Scan# 4641
 Delta R.T. 0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Resp	Lower	Upper
119	100	104242		
134	25.0	20.3	30.5	
91	35.3	24.6	36.8	

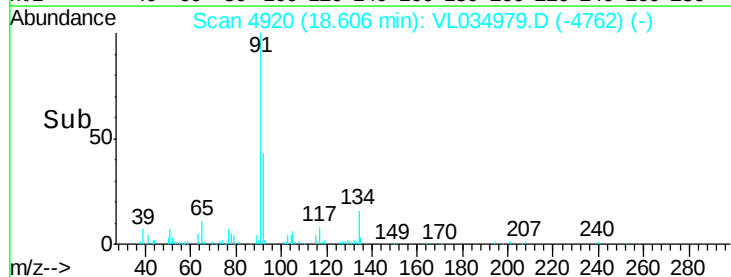
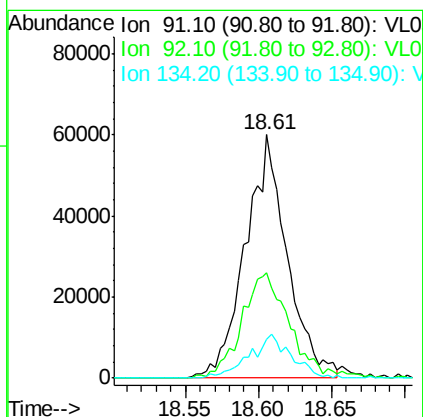
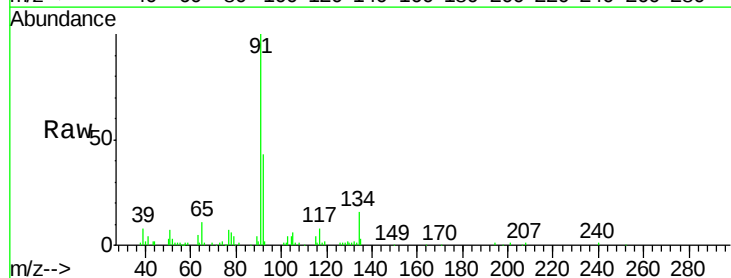
Manual Integrations
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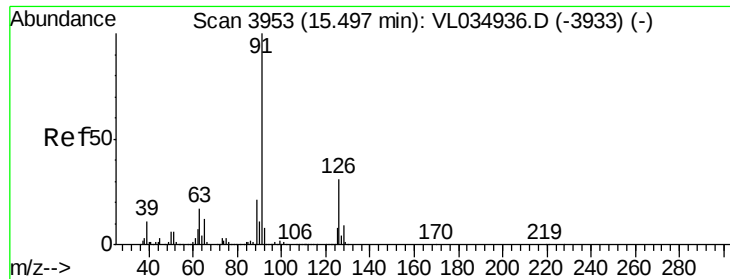
MMDadoda
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#70
 n-Butylbenzene
 Concen: 0.325 ppbv m
 RT: 18.61 min Scan# 4920
 Delta R.T. 0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	119292		
92	0.0	44.4	66.6#	
134	0.0	18.0	27.0#	





#71

2-Chlorotoluene

Concen: 0.314 ppbv m

RT: 15.50 min Scan# 3954

Delta R.T. 0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion: 91 Resp: 81522

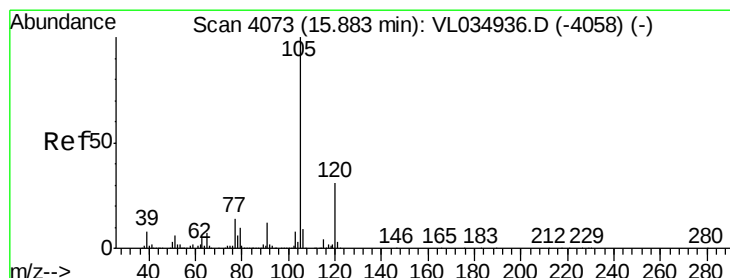
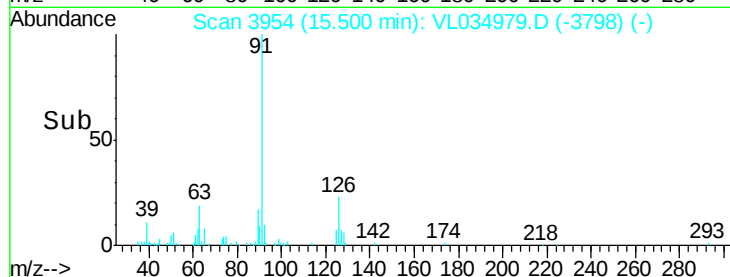
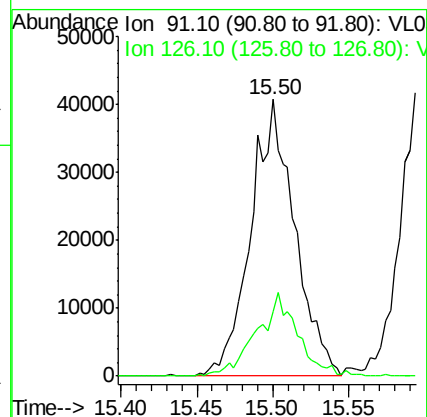
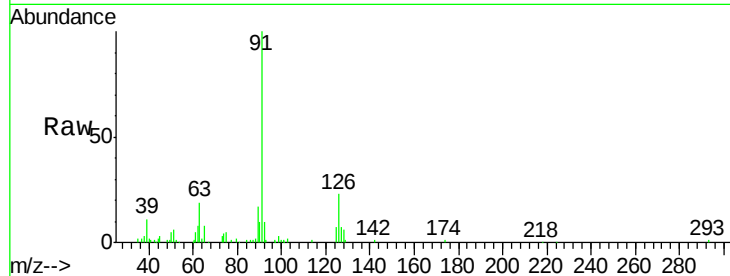
Ion Ratio Lower Upper

91 100

126 28.4 12.0 47.8

Manual Integrations
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#72

4-Ethyltoluene

Concen: 0.309 ppbv m

RT: 15.88 min Scan# 4072

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion: 105 Resp: 79540

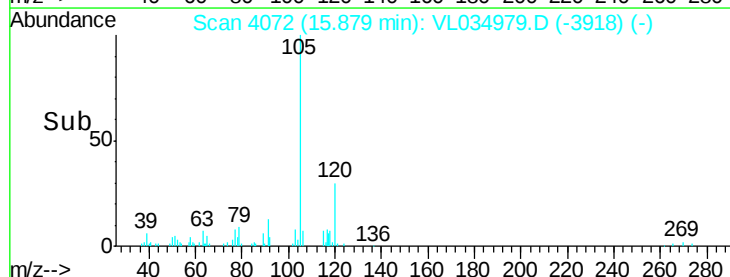
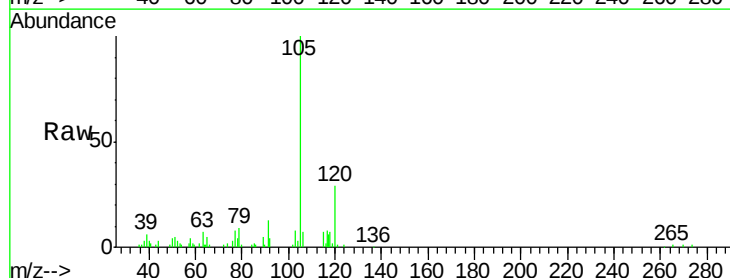
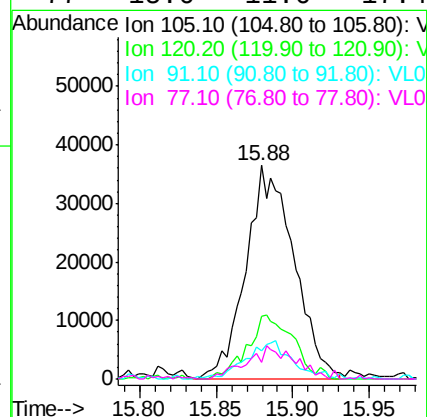
Ion Ratio Lower Upper

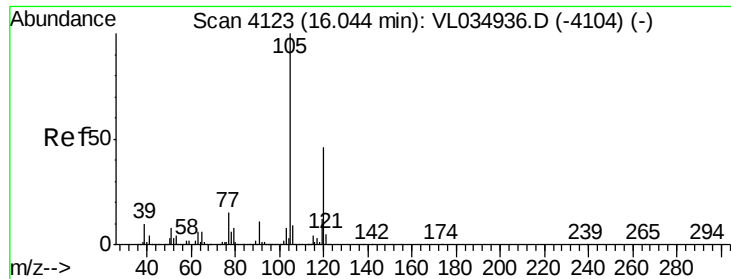
105 100

120 28.9 23.8 35.8

91 17.8 10.6 15.8#

77 15.6 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.308 ppbv m

RT: 16.04 min Scan# 4122

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT2-2020

Tot Ion:105 Resp: 77036

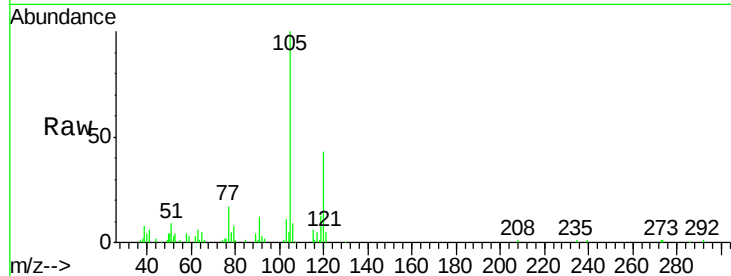
Ion Ratio Lower Upper

105 100

120 43.2 36.4 54.6

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.04

40000

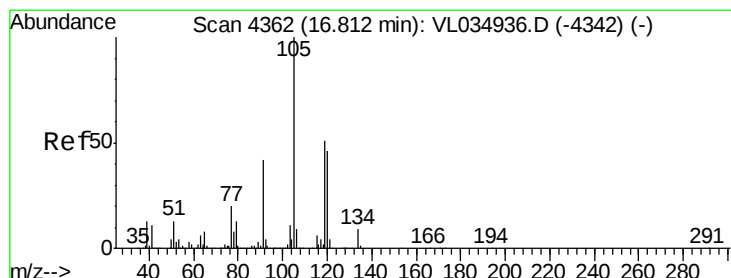
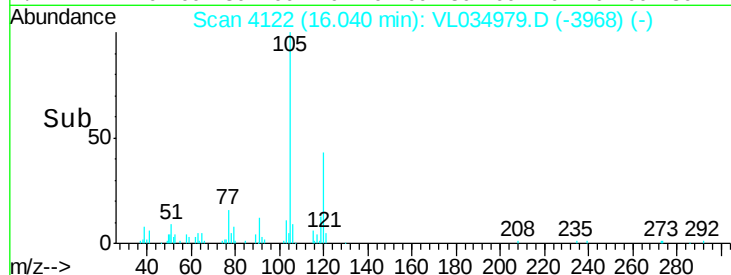
30000

20000

10000

0

Time--> 15.95 16.00 16.05 16.10



#74

1,2,4-Trimethylbenzene

Concen: 0.355 ppbv m

RT: 16.81 min Scan# 4362

Delta R.T. -0.00 min

Lab File: VL034979.D

Acq: 7 May 2020 22:32

Tgt Ion:105 Resp: 97068

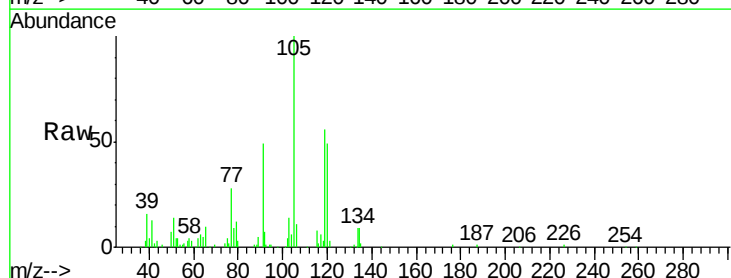
Ion Ratio Lower Upper

105 100

120 49.4 36.8 55.2

91 48.8 35.4 53.0

77 28.2 16.2 24.2#



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

60000

50000

40000

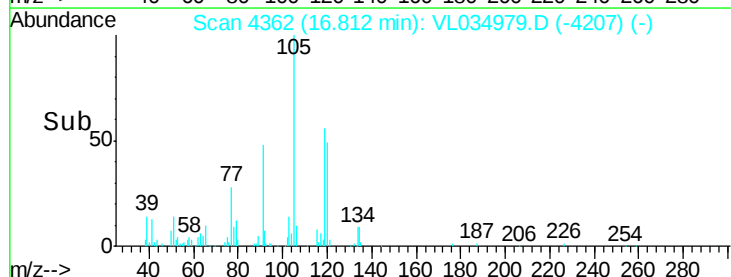
30000

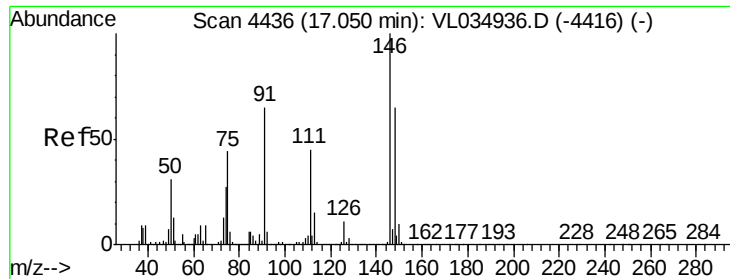
20000

10000

0

Time--> 16.70 16.75 16.80 16.85





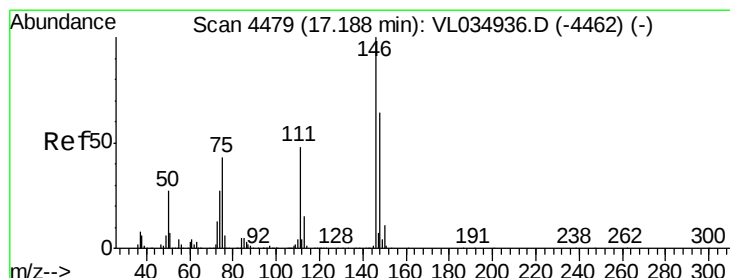
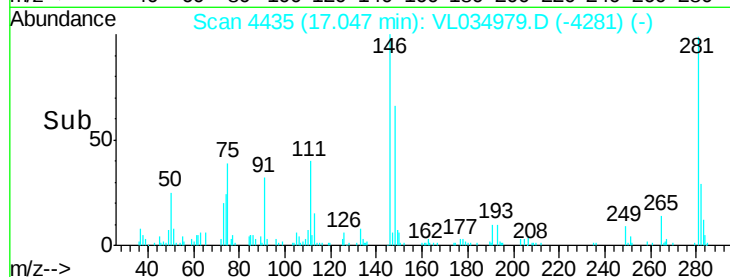
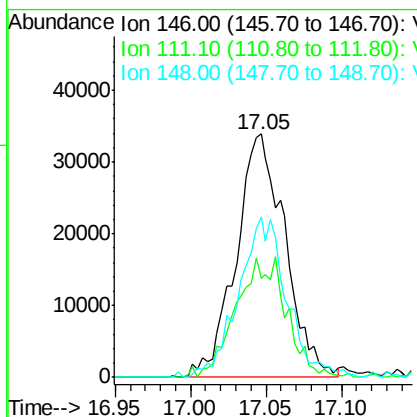
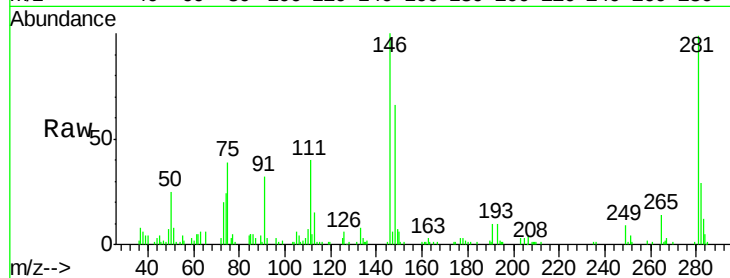
#75
 1,3-Dichlorobenzene
 Concen: 0.477 ppbv m
 RT: 17.05 min Scan# 4435
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.0	72.0#
148	64.9	32.6	97.7

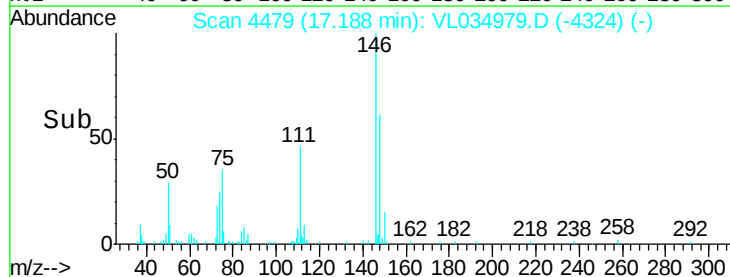
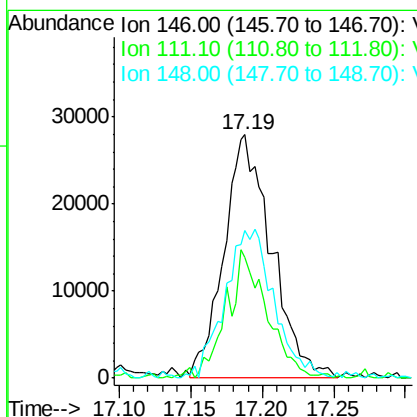
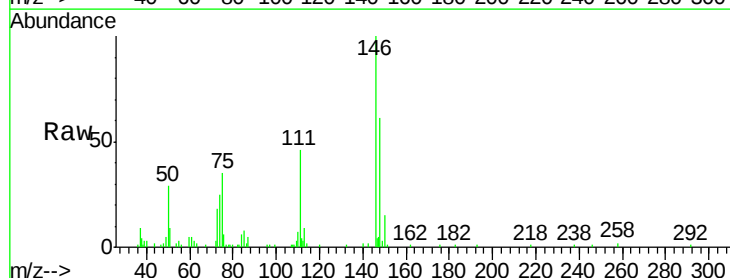
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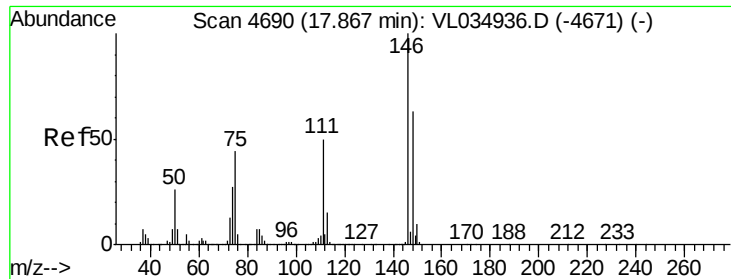
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#76
 1,4-Dichlorobenzene
 Concen: 0.423 ppbv m
 RT: 17.19 min Scan# 4479
 Delta R.T. -0.00 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.7	71.1
148	63.1	32.6	97.8





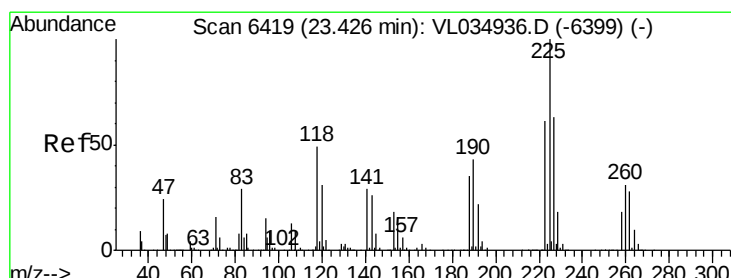
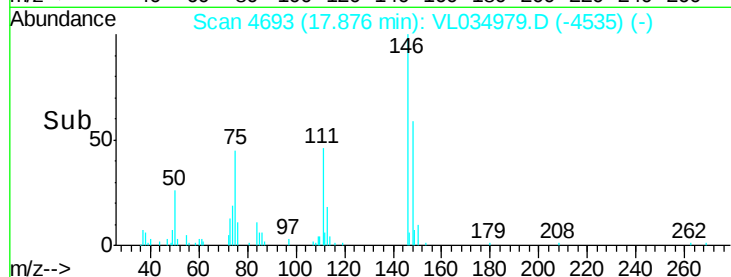
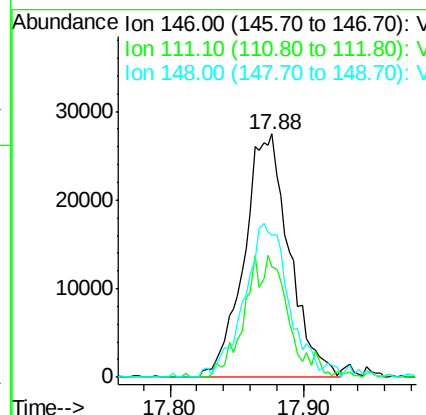
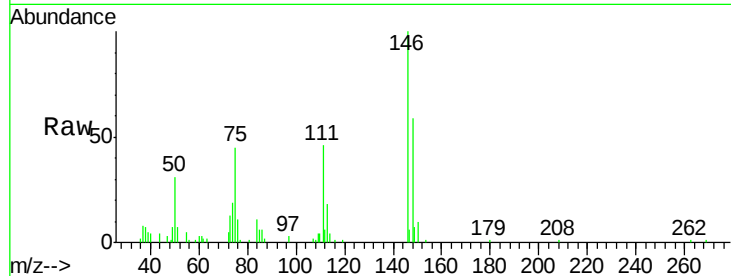
#77
 1,2-Dichlorobenzene
 Concen: 0.426 ppbv m
 RT: 17.88 min Scan# 4693
 Delta R.T. 0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.6	24.5	73.5
148	0.0	31.7	95.1#

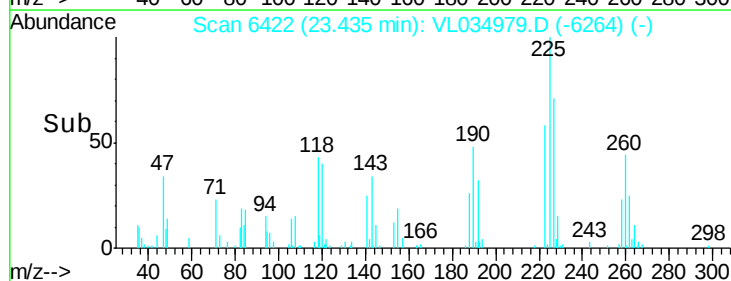
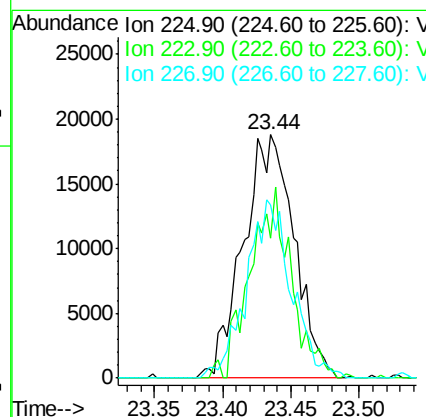
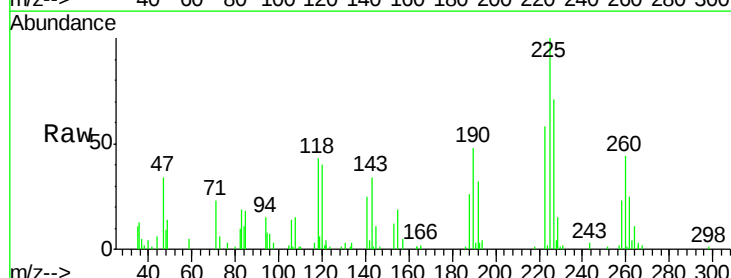
Manual Integrations
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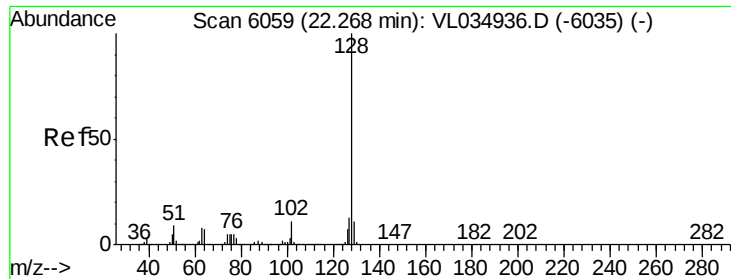
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.378 ppbv m
 RT: 23.44 min Scan# 6422
 Delta R.T. 0.01 min
 Lab File: VL034979.D
 Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	49.8	74.8#
227	0.0	51.8	77.6#





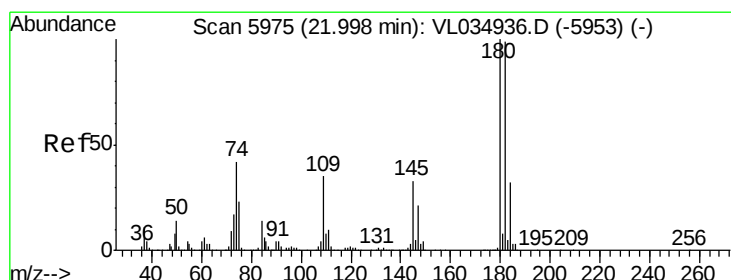
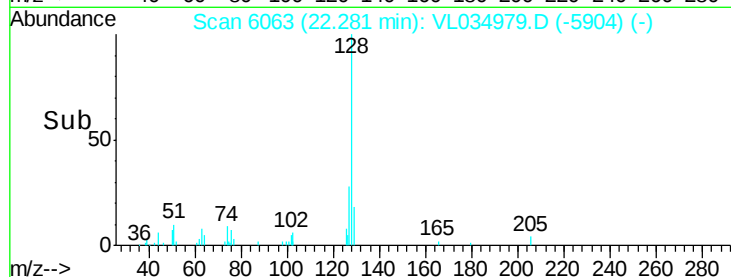
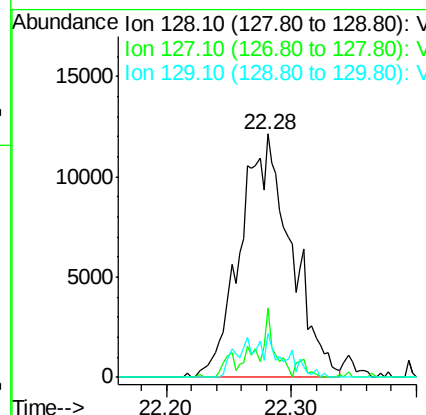
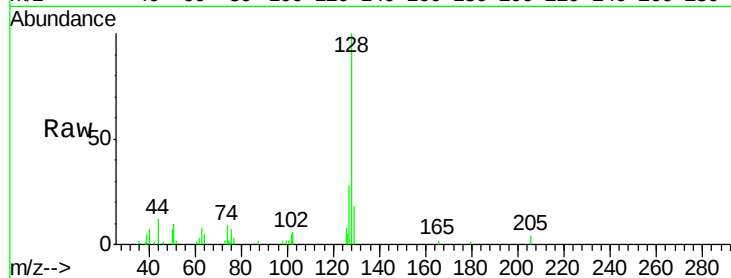
#79
Naphthalene
Concen: 0.161 ppbv m
RT: 22.28 min Scan# 6063
Delta R.T. 0.01 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	28.4	10.5	15.7#
129	17.8	9.0	13.4#

Manual Integrations
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#81
1,2,4-Trichlorobenzene
Concen: 0.249 ppbv m
RT: 22.01 min Scan# 5980
Delta R.T. 0.02 min
Lab File: VL034979.D
Acq: 7 May 2020 22:32

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.3	77.5	116.3
184	30.3	24.8	37.2

