

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031431.D
 Acq On : 23 Jan 2018 00:51
 Operator : SY/AP
 Sample : J1089-13
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-6

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:30 PM

Quant Time: Jan 23 10:29:28 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 23 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1201073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2725005	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2669897	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2161983	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	37441	0.22	ppbv	96
3) Chlorodifluoromethane	3.11	51	21857	0.14	ppbv	98
4) Chloromethane	3.27	50	9560	0.13	ppbv #	87
5) Vinyl Chloride	3.40	62	9324	0.14	ppbv #	84
6) Bromomethane	3.63	94	7959m	0.16	ppbv	
7) Chloroethane	3.72	64	3563m	0.12	ppbv	
8) Dichlorotetrafluoroethane	3.32	85	25944	0.14	ppbv	96
9) Propene	3.13	41	7357m	0.13	ppbv	
10) Heptane	8.40	43	15002	0.09	ppbv	100
11) Trichlorofluoromethane	4.13	101	32440	0.14	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.68	101	19936	0.14	ppbv	98
13) Ethanol	3.78	45	3645m	0.22	ppbv	
14) Bromoethene	3.91	108	7556	0.13	ppbv #	96
15) Acetone	4.04	43	32055	0.20	ppbv	98
16) 1,3-Butadiene	3.47	39	8321	0.12	ppbv	100
17) tert-Butyl alcohol	4.53	59	9967m	0.13	ppbv	
18) 1,1-Dichloroethene	4.48	96	8740	0.14	ppbv	85
19) Isopropyl Alcohol	4.17	45	11486	0.12	ppbv #	94
20) Methylene Chloride	4.54	84	16995	0.27	ppbv	87
21) Allyl Chloride	4.61	41	12001m	0.13	ppbv	
22) trans-1,2-Dichloroethene	5.10	96	9146m	0.14	ppbv	
23) Vinyl Acetate	5.31	43	22992m	0.12	ppbv	
24) 1,1-Dichloroethane	5.22	63	21399m	0.13	ppbv	
25) Ethyl Acetate	5.93	43	33341	0.12	ppbv #	97
26) Hexane	5.93	57	14347m	0.11	ppbv	
27) Carbon Disulfide	4.76	76	18234	0.11	ppbv #	57
28) Methyl tert-Butyl Ether	5.27	73	16426	0.11	ppbv	93
29) Chloroform	5.99	83	27403	0.13	ppbv	100
30) Cyclohexane	7.43	84	17334m	0.18	ppbv	
31) cis-1,2-Dichloroethene	5.79	61	13196m	0.11	ppbv	
32) 1,1,1-Trichloroethane	6.77	97	25335	0.12	ppbv	87
34) 2-Butanone	5.49	43	21963	0.13	ppbv	99
35) Carbon Tetrachloride	7.29	117	28892m	0.13	ppbv	
36) Benzene	7.16	78	25284	0.10	ppbv	98
37) 1,2-Dichloroethane	6.56	62	24306m	0.13	ppbv	
38) Trichloroethene	8.11	130	12200m	0.13	ppbv	
39) 1,2-Dichloropropane	7.90	63	11639m	0.13	ppbv	
40) 1,4-Dioxane	8.18	88	2941m	0.08	ppbv	
41) Tetrahydrofuran	6.33	42	9043m	0.09	ppbv	
42) Bromodichloromethane	8.07	83	28710m	0.13	ppbv	
43) Methyl Methacrylate	8.30	69	7396m	0.08	ppbv	

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Manual Integrations
 APPROVED

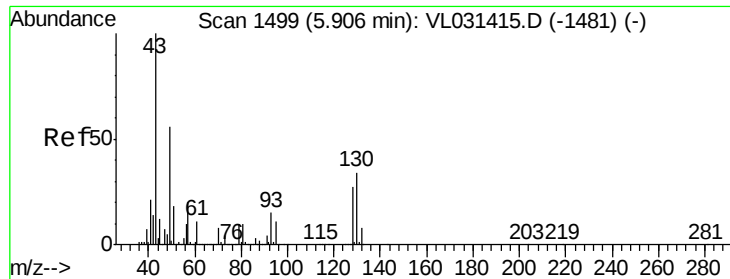
MMDadoda
 1/24/2018 5:10:30 PM

Quant Time: Jan 23 10:29:28 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 23 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.16	57	36615	0.09	ppbv	# 84
45) t-1,3-Dichloropropene	9.58	75	8706	0.07	ppbv	# 85
46) cis-1,3-Dichloropropene	9.00	75	12521m	0.08	ppbv	
47) 1,1,2-Trichloroethane	9.77	97	13228m	0.12	ppbv	
48) Dibromochloromethane	10.61	129	21272m	0.11	ppbv	
49) Bromoform	13.37	173	13842m	0.10	ppbv	
50) 4-Methyl-2-Pentanone	9.08	43	20236m	0.09	ppbv	
51) 2-Hexanone	10.48	43	16657m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10739m	0.12	ppbv	
53) Toluene	10.11	91	23443m	0.08	ppbv	
54) 1,2-Dibromoethane	10.93	107	18380m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.45	131	16115m	0.13	ppbv	
57) Chlorobenzene	12.47	112	33459m	0.14	ppbv	
58) Ethyl Benzene	13.04	91	34668	0.09	ppbv	99
59) m/p-Xylene	13.31	91	62179m	0.19	ppbv	
60) o-Xylene	14.02	91	27067	0.08	ppbv	96
61) Styrene	13.85	104	5232m	0.07	ppbv	
62) Isopropylbenzene	14.99	105	39132m	0.09	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.01	83	29184m	0.13	ppbv	
64) n-propylbenzene	15.89	120	8792m	0.08	ppbv	
65) tert-Butylbenzene	17.08	119	28901m	0.08	ppbv	
66) Benzyl Chloride	17.34	91	3878m	0.10	ppbv	
67) sec-Butylbenzene	17.63	105	45513m	0.09	ppbv	
69) p-Isopropyltoluene	17.99	119	31491m	0.08	ppbv	
70) n-Butylbenzene	18.88	91	34938m	0.08	ppbv	
71) 2-Chlorotoluene	15.79	91	26813	0.08	ppbv	93
72) 4-Ethyltoluene	16.17	105	26169m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	23653	0.08	ppbv	94
74) 1,2,4-Trimethylbenzene	17.09	105	27423m	0.08	ppbv	
75) 1,3-Dichlorobenzene	17.34	146	27757m	0.13	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	22473m	0.11	ppbv	
77) 1,2-Dichlorobenzene	18.16	146	22821m	0.11	ppbv	
78) Hexachloro-1,3-Butadiene	23.71	225	12163m	0.17	ppbv	
79) Naphthalene	22.63	128	14979m	0.07	ppbv	
80) Naphthalene, 2-methyl-	25.26	142	3218m	0.05	ppbv	
81) 1,2,4-Trichlorobenzene	22.35	180	10828m	0.10	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-6

Tot Ion: 49 Resp: 1201073

Ion Ratio Lower Upper

49 100

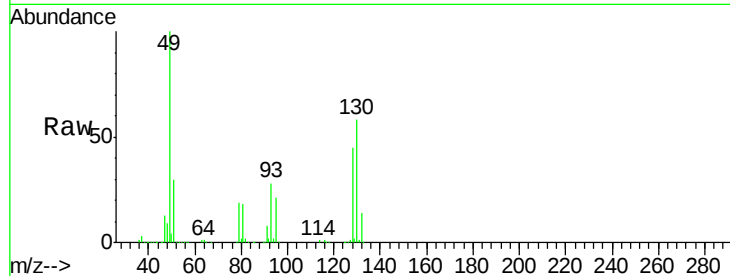
128 45.4 23.5 70.6

130 58.7 29.9 89.7

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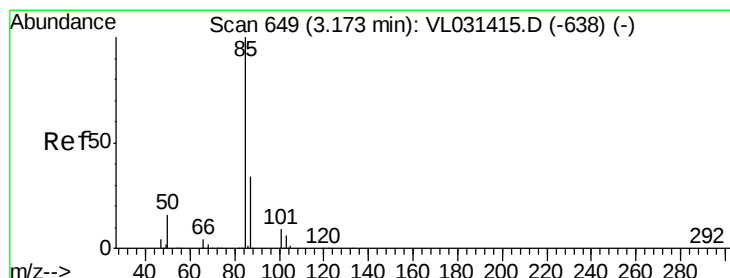
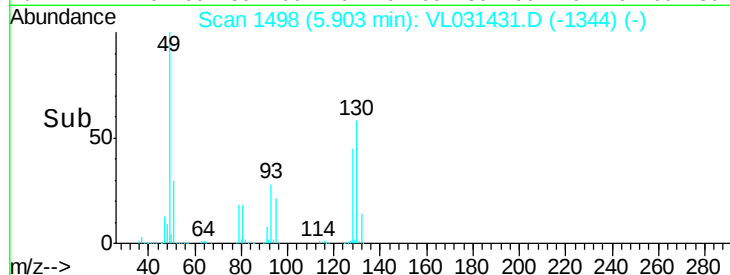
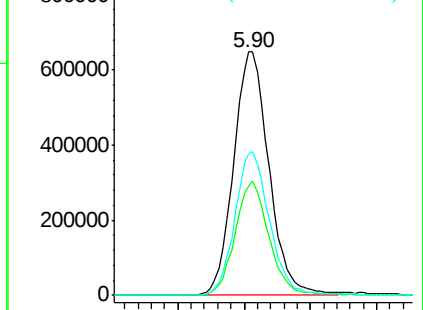
1/24/2018 5:10:30 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.22 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031431.D

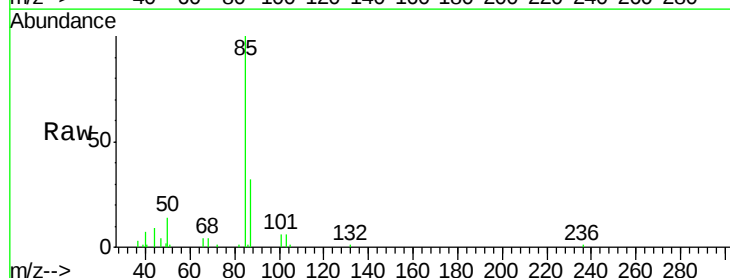
Acq: 23 Jan 2018 00:51

Tgt Ion: 85 Resp: 37441

Ion Ratio Lower Upper

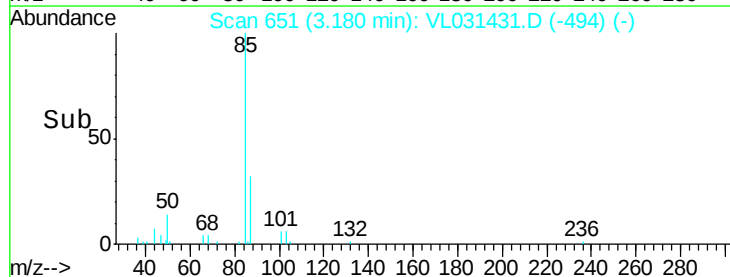
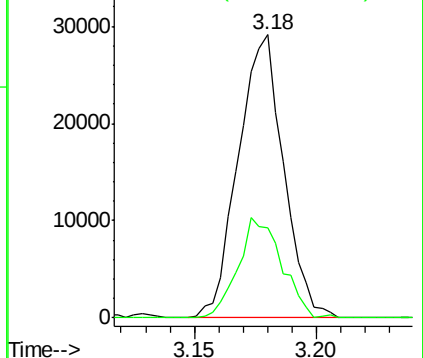
85 100

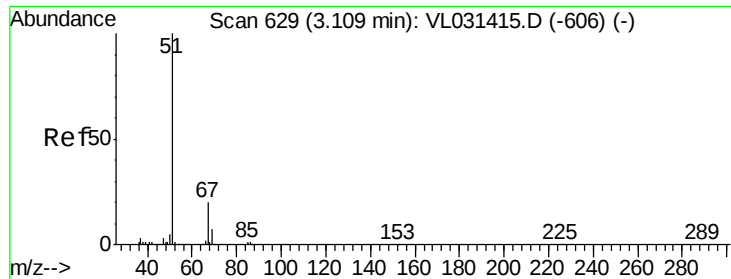
87 31.7 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.14 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-6

Tot Ion: 51 Resp: 21857

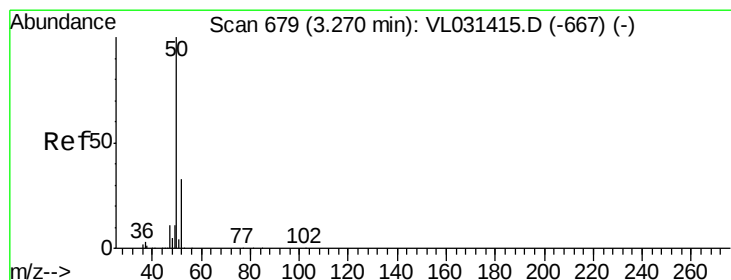
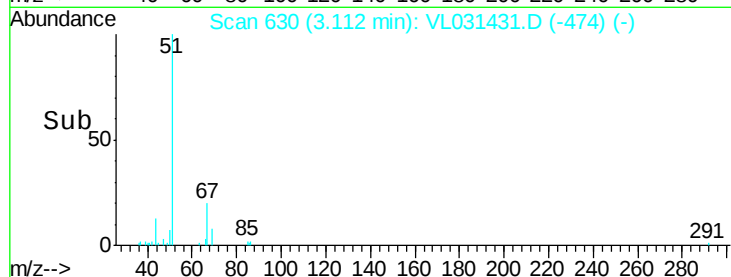
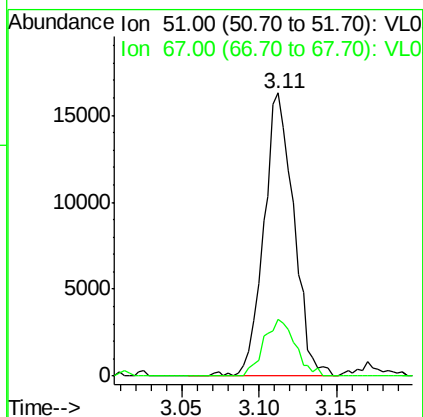
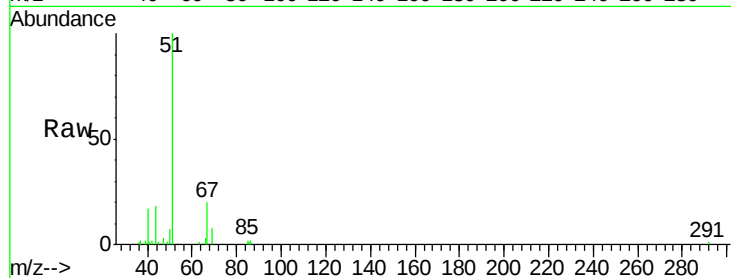
Ion Ratio Lower Upper

51 100

67 21.1 16.0 24.0

Manual Integrations
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#4

Chloromethane

Concen: 0.13 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031431.D

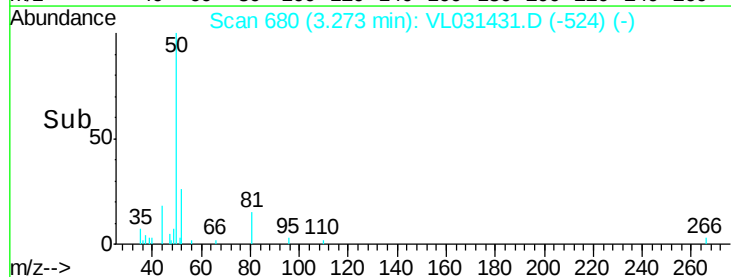
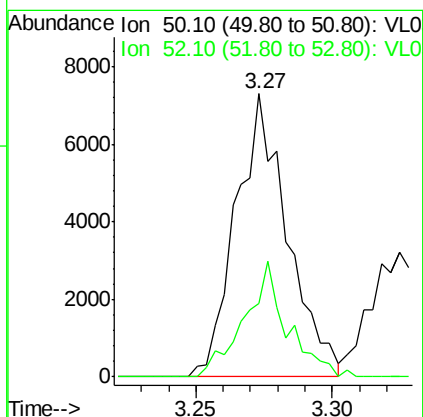
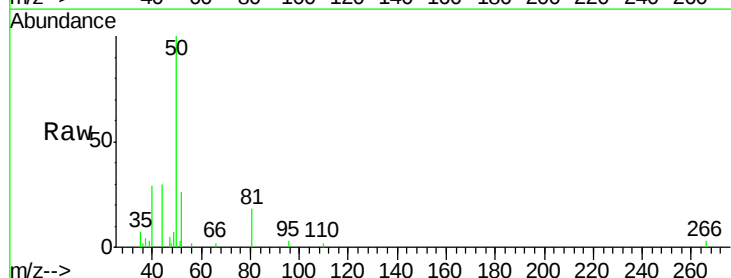
Acq: 23 Jan 2018 00:51

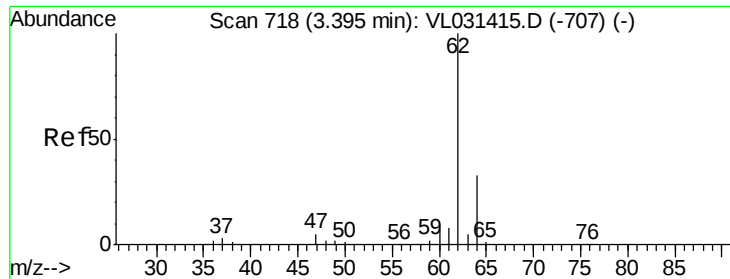
Tgt Ion: 50 Resp: 9560

Ion Ratio Lower Upper

50 100

52 25.8 26.4 39.6#





#5

Vinyl Chloride

Concen: 0.14 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-6

Tot Ion: 62 Resp: 9324

Ion Ratio Lower Upper

62 100

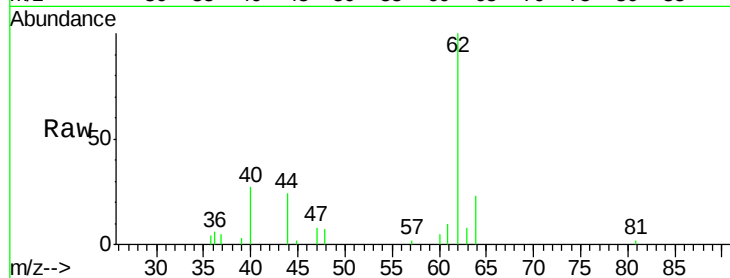
64 22.8 25.4 38.0#

Manual Integrations

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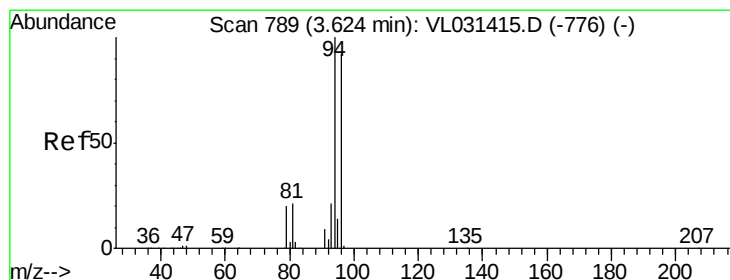
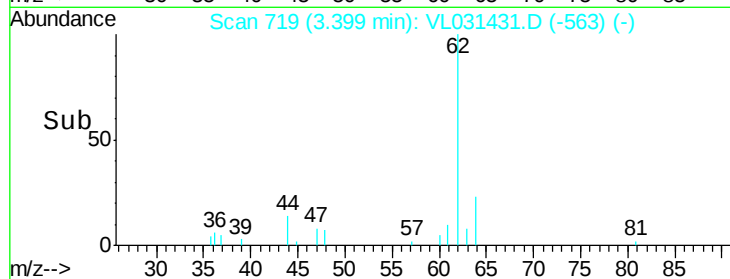
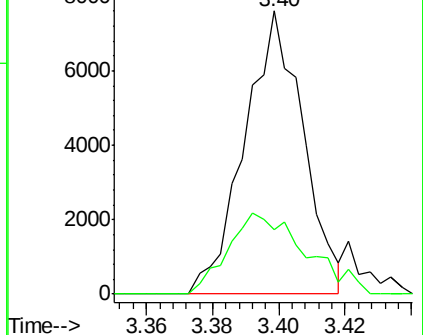
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.16 ppbv m

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031431.D

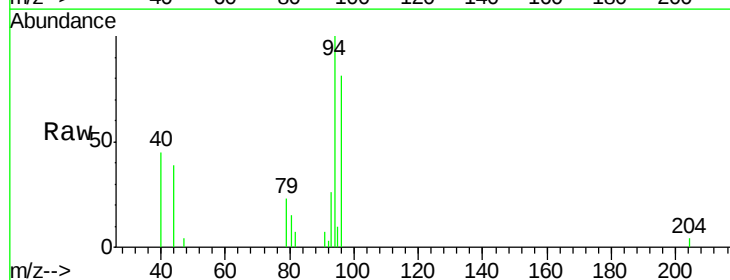
Acq: 23 Jan 2018 00:51

Tgt Ion: 94 Resp: 7959

Ion Ratio Lower Upper

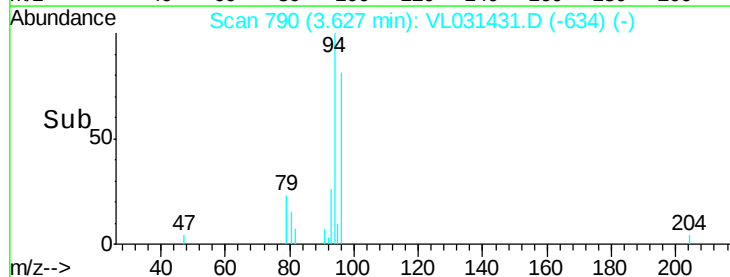
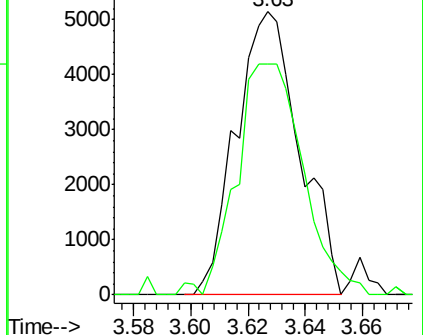
94 100

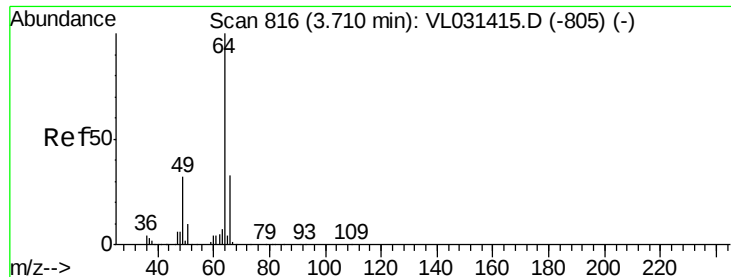
96 81.4 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.12 ppbv m

RT: 3.72 min Scan# 818

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-6

Tot Ion: 64 Resp: 3563

Ion Ratio Lower Upper

64 100

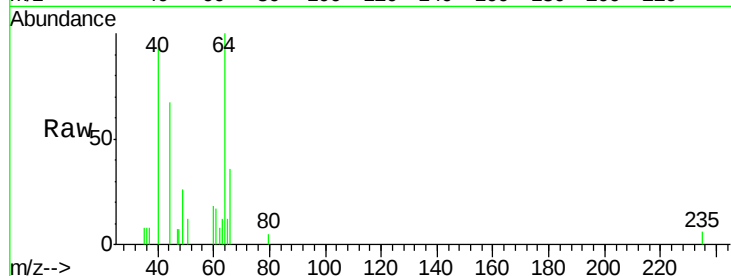
66 36.4 26.3 39.5

Manual Integrations

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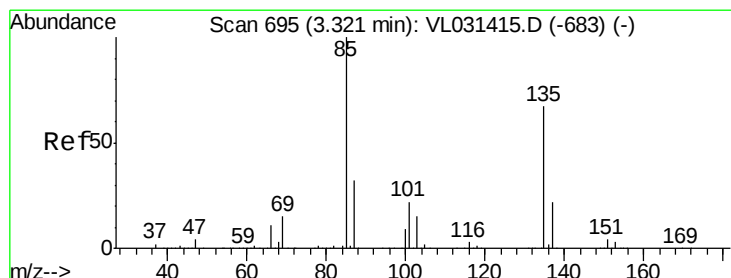
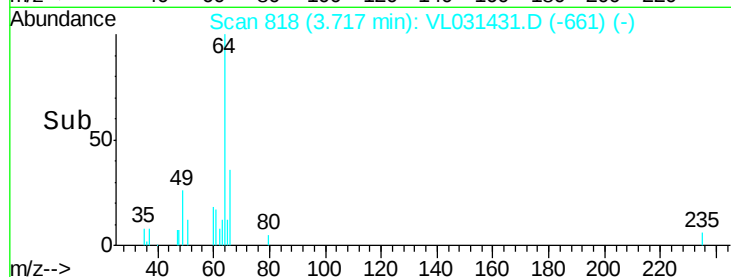
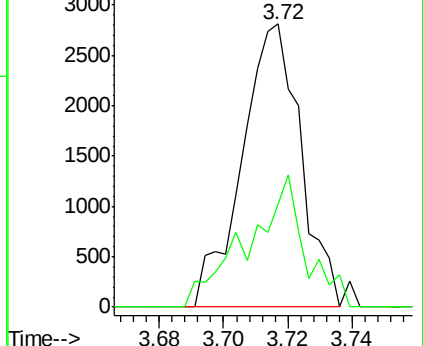
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.14 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL031431.D

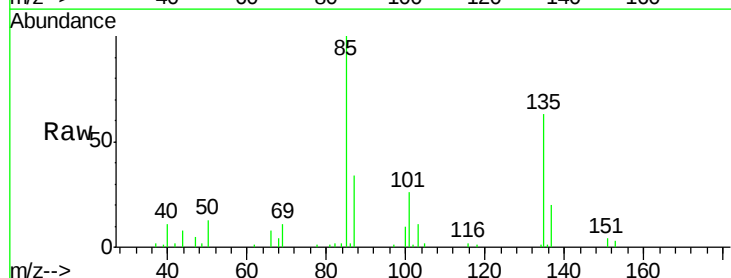
Acq: 23 Jan 2018 00:51

Tgt Ion: 85 Resp: 25944

Ion Ratio Lower Upper

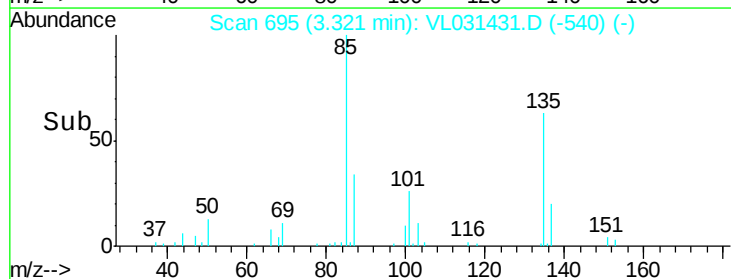
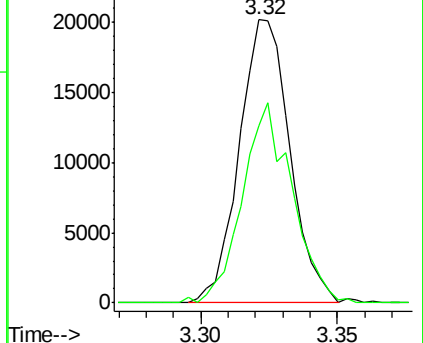
85 100

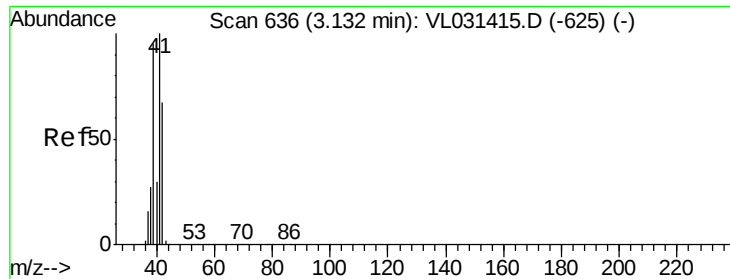
135 69.5 53.3 79.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

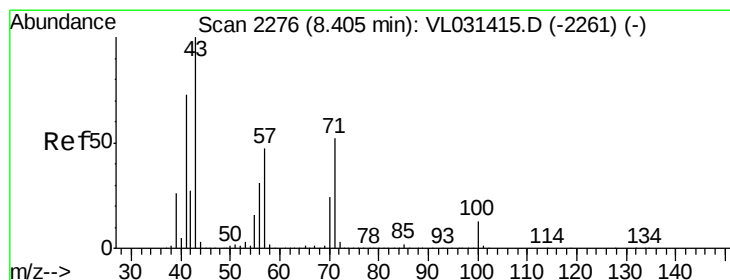
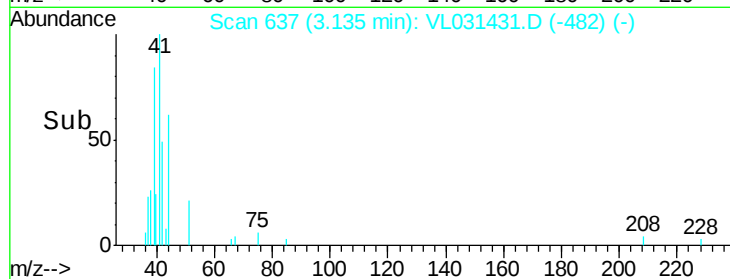
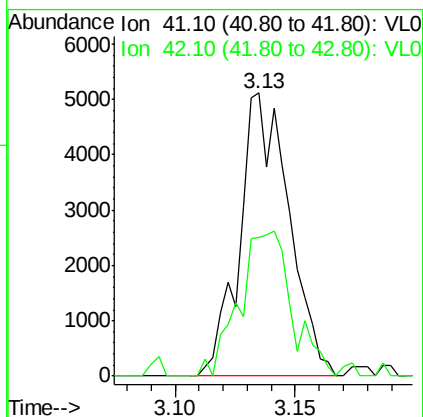
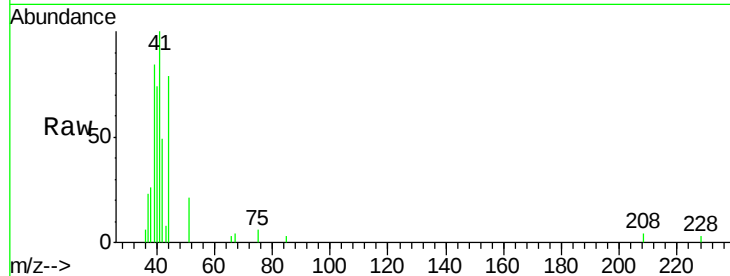
Concen: 0.13 ppbv m
 RT: 3.13 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-6

Tot Ion: 41 Resp: 7357
 Ion Ratio Lower Upper
 41 100
 42 0.0 54.6 82.0#

Manual Integrations
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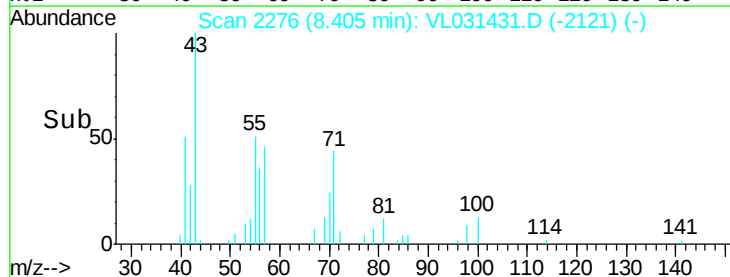
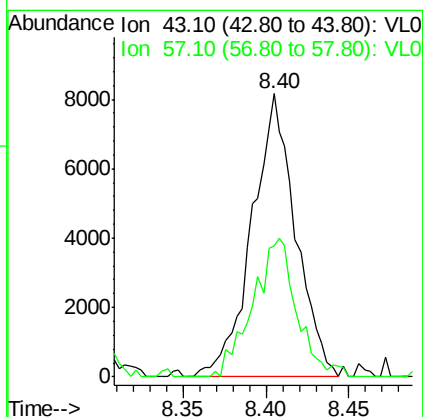
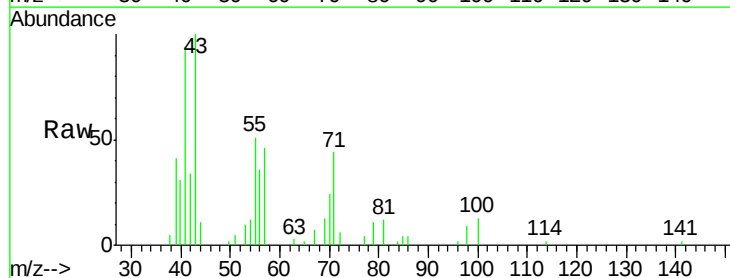


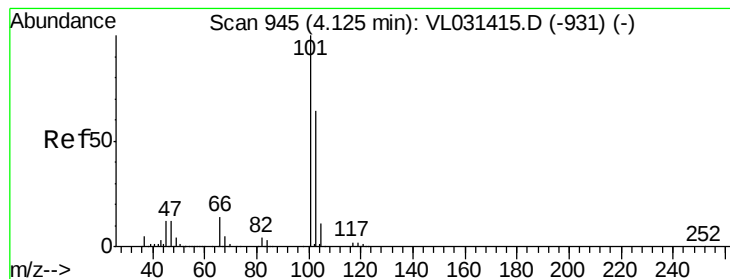
#10

Heptane

Concen: 0.09 ppbv
 RT: 8.40 min Scan# 2276
 Delta R.T. -0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Tgt Ion: 43 Resp: 15002
 Ion Ratio Lower Upper
 43 100
 57 49.4 39.7 59.5





#11

Trichlorofluoromethane

Concen: 0.14 ppbv

RT: 4.13 min Scan# 945

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-6

Tot Ion:101 Resp: 32440

Ion Ratio Lower Upper

101 100

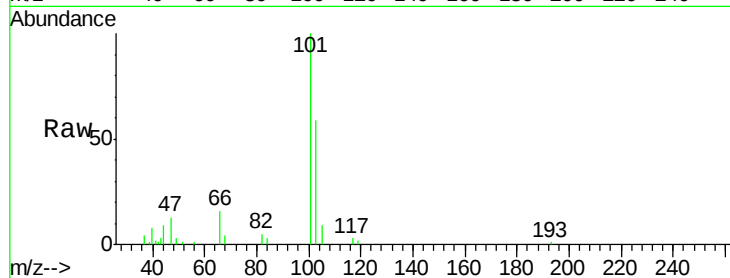
103 59.4 53.1 79.7

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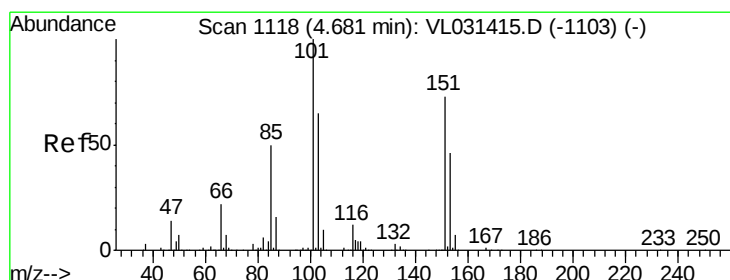
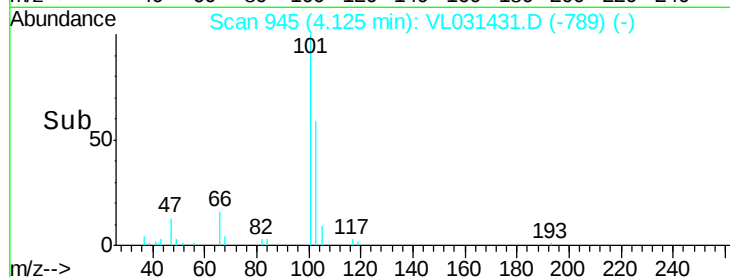
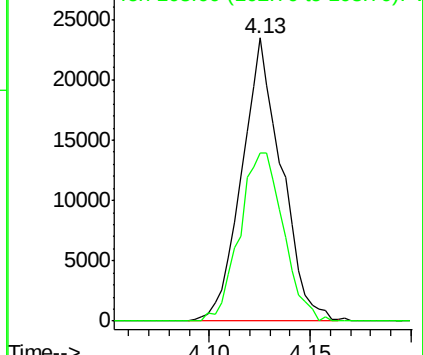
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.14 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031431.D

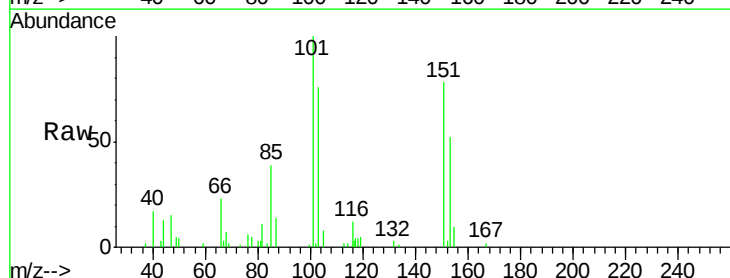
Acq: 23 Jan 2018 00:51

Tgt Ion:101 Resp: 19936

Ion Ratio Lower Upper

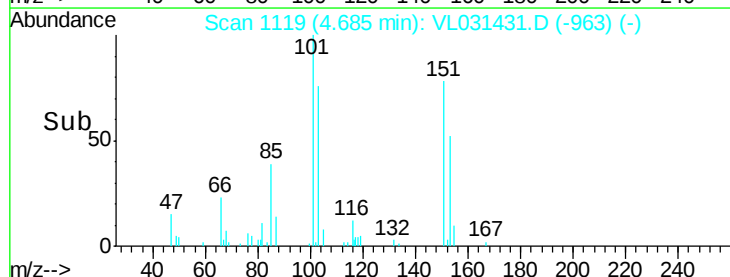
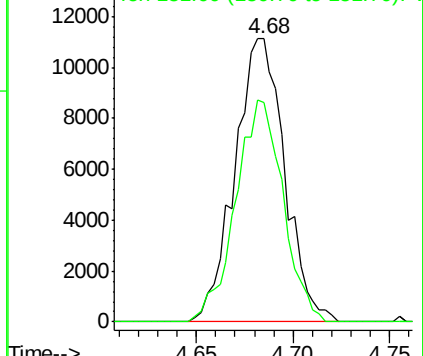
101 100

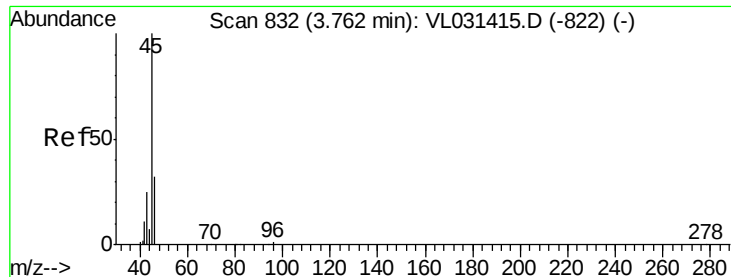
151 74.3 58.1 87.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

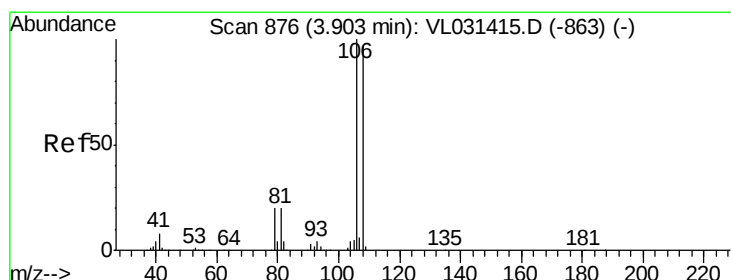
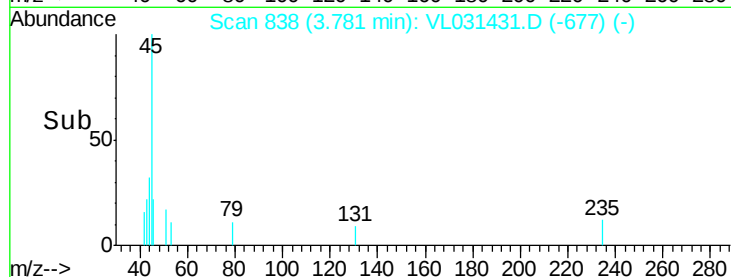
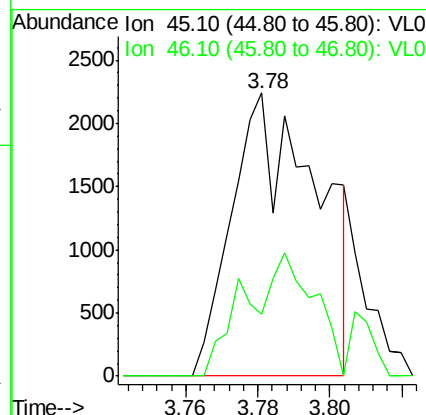
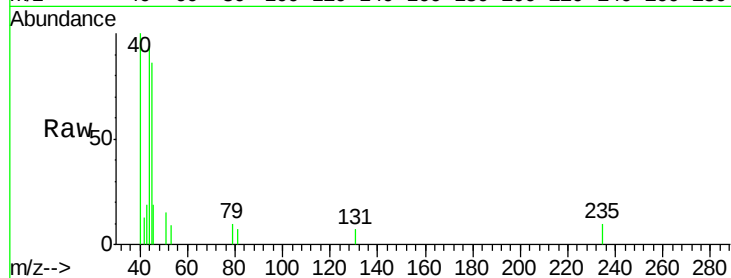
Concen: 0.22 ppbv m
RT: 3.78 min Scan# 838
Delta R.T. 0.02 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-6

Tot Ion	45	Ratio	Lower	Upper
45	100			
46	40.9	14.9	59.5	

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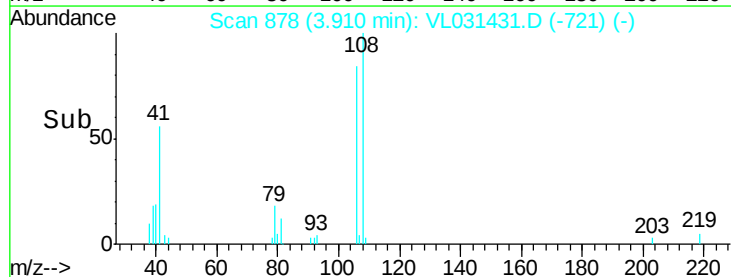
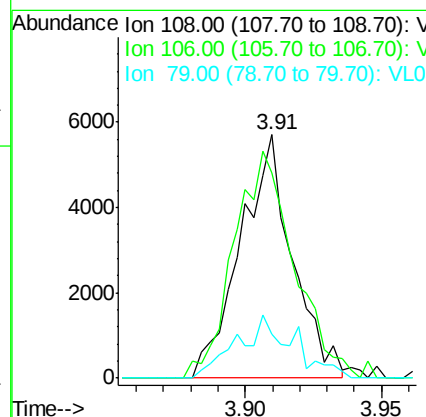
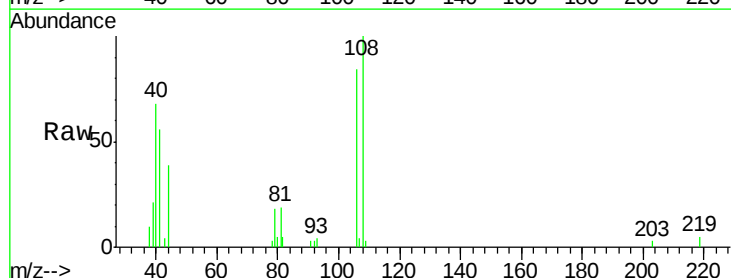


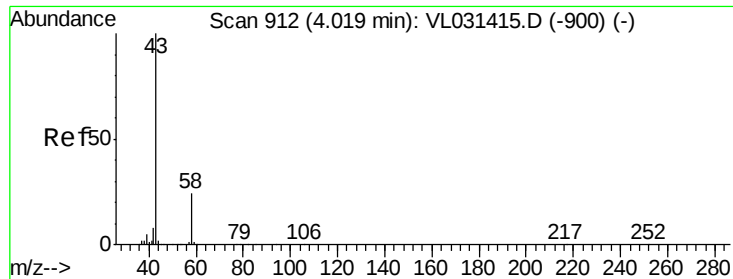
#14

Bromoethene

Concen: 0.13 ppbv
RT: 3.91 min Scan# 878
Delta R.T. 0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	108	Ratio	Lower	Upper
108	100			
106	108.7	85.3	127.9	
79	28.1	16.8	25.2#	





#15

Acetone

Concen: 0.20 ppbv

RT: 4.04 min Scan# 920

Delta R.T. 0.02 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-6

Tot Ion: 43 Resp: 32055

Ion Ratio Lower Upper

43 100

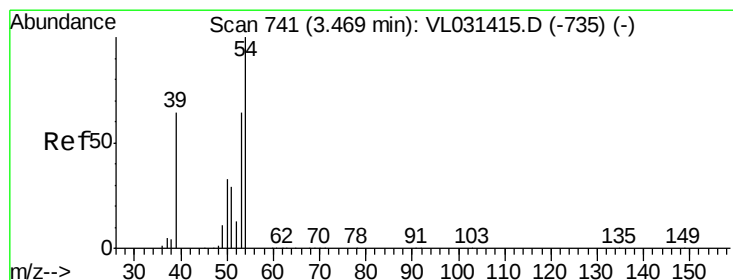
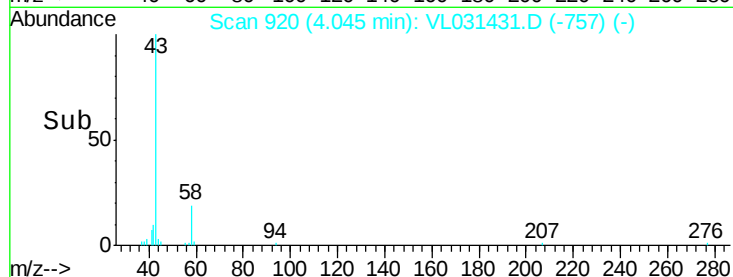
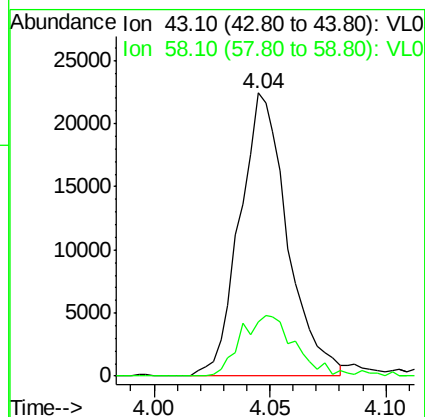
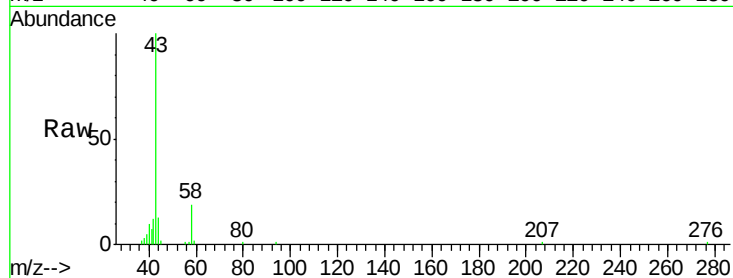
58 25.3 19.4 29.2

Manual Integrations

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MMDadoda

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#16

1,3-Butadiene

Concen: 0.12 ppbv

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031431.D

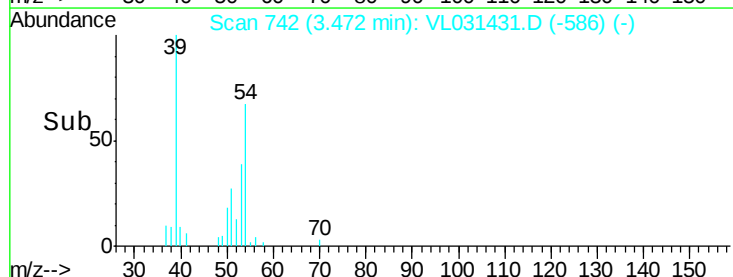
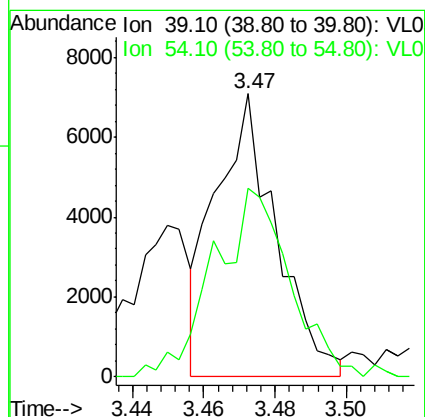
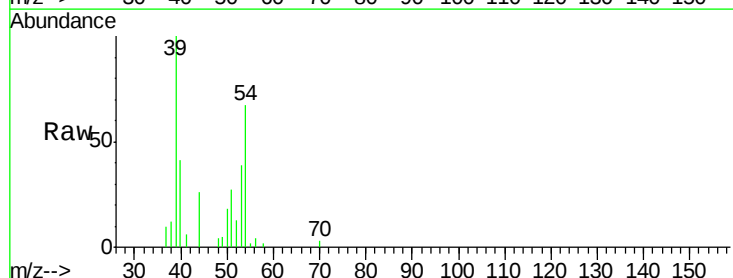
Acq: 23 Jan 2018 00:51

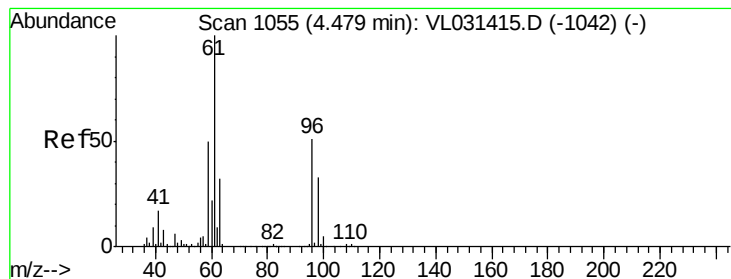
Tgt Ion: 39 Resp: 8321

Ion Ratio Lower Upper

39 100

54 84.2 67.0 100.6





#17

tert-Butyl alcohol

Concen: 0.13 ppbv m

RT: 4.53 min Scan# 1070

Delta R.T. 0.05 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-6

Tot Ion: 59 Resp: 9967

Ion Ratio Lower Upper

59 100

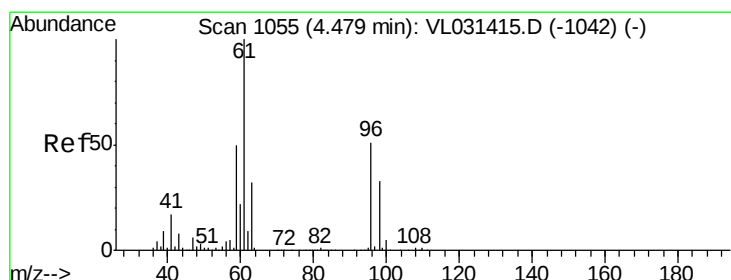
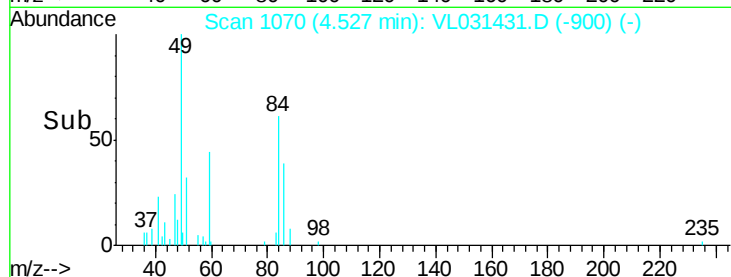
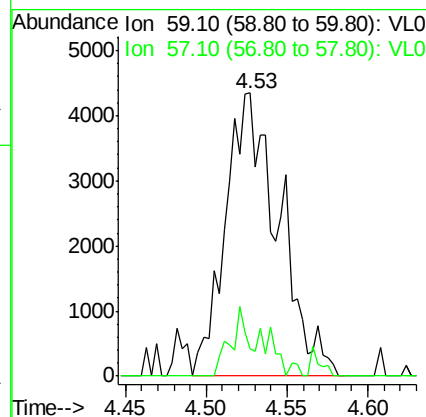
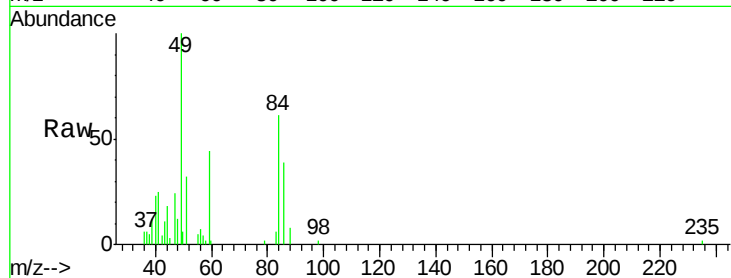
57 0.0 8.6 13.0#

Manual Integrations

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MMDadoda

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#18

1,1-Dichloroethene

Concen: 0.14 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

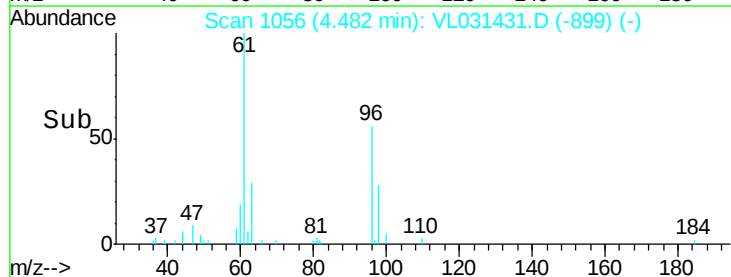
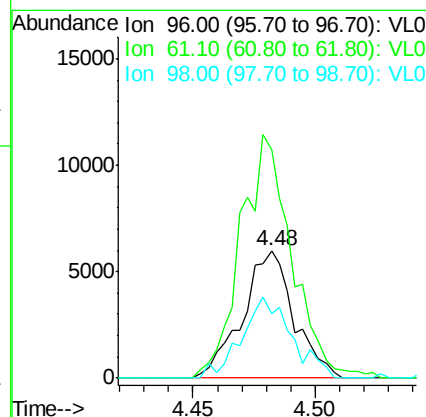
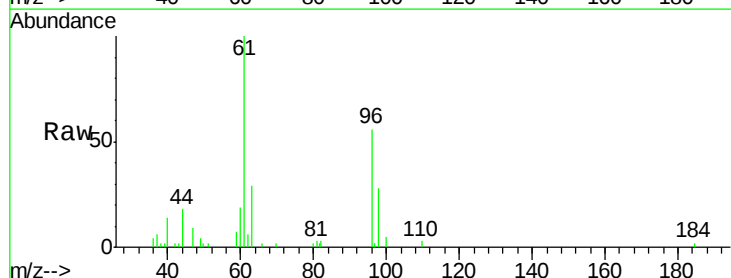
Tgt Ion: 96 Resp: 8740

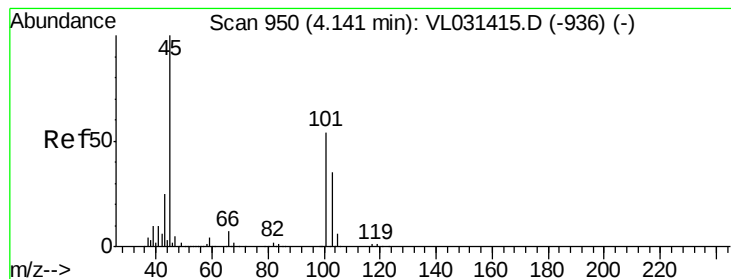
Ion Ratio Lower Upper

96 100

61 179.5 161.6 242.4

98 50.9 49.6 74.4





#19

Isopropyl Alcohol

Concen: 0.12 ppbv

RT: 4.17 min Scan# 960

Delta R.T. 0.03 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-6

Tot Ion: 45 Resp: 11486

Ion Ratio Lower Upper

45 100

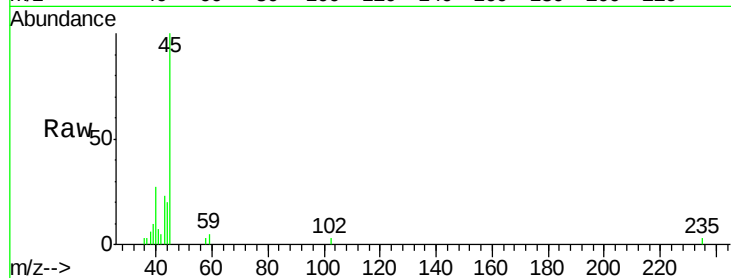
58 3.6 1.0 1.4#

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.17

10000

8000

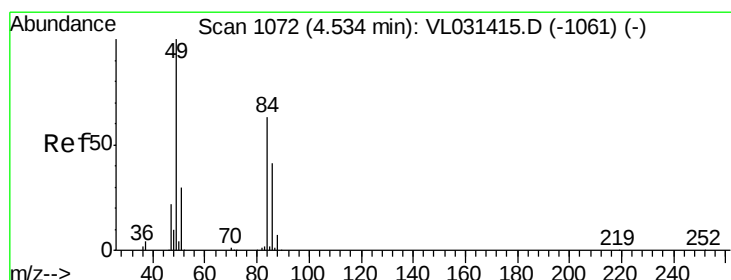
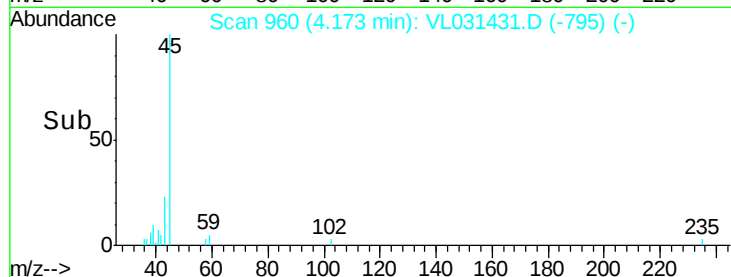
6000

4000

2000

0

Time-->



#20

Methylene Chloride

Concen: 0.27 ppbv

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion: 84 Resp: 16995

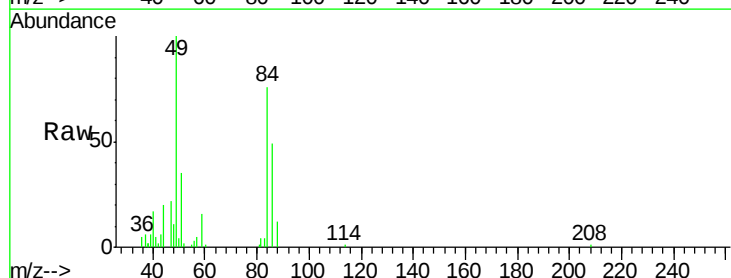
Ion Ratio Lower Upper

84 100

49 129.3 123.4 185.0

51 45.8 35.6 53.4

86 64.4 49.4 74.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.54

25000

20000

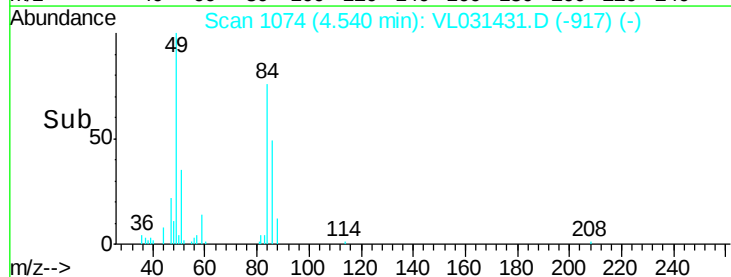
15000

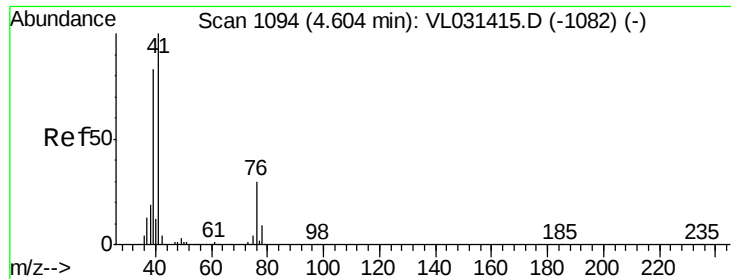
10000

5000

0

Time-->





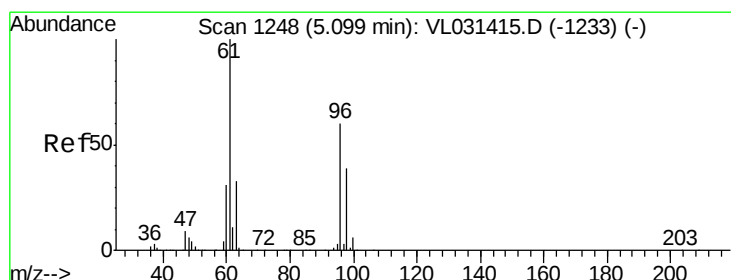
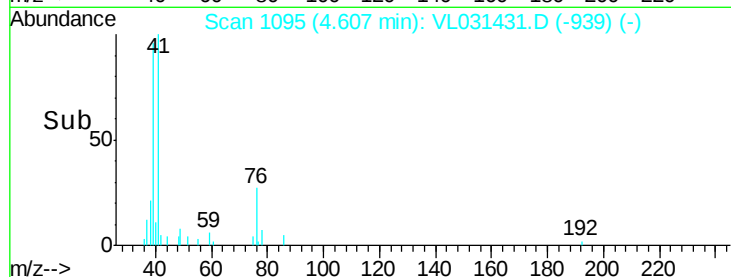
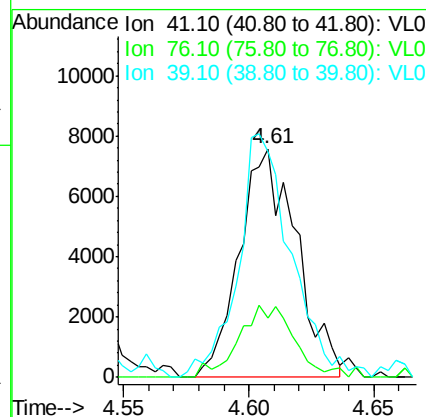
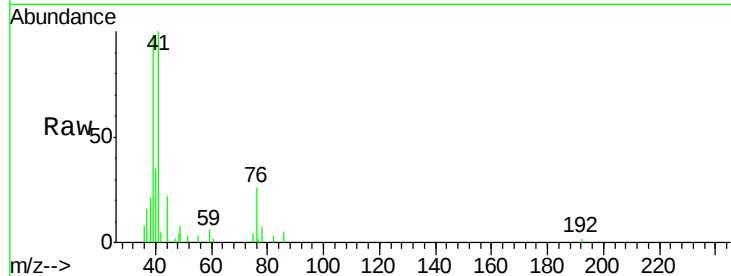
#21
Allvl Chloride
Concen: 0.13 ppbv m
RT: 4.61 min Scan# 1095
Delta R.T. 0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.6	24.2	36.2
39	96.3	69.8	104.8

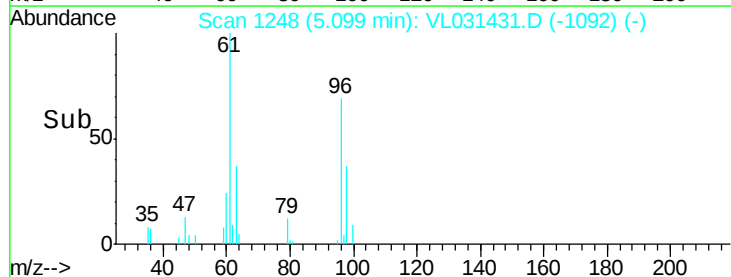
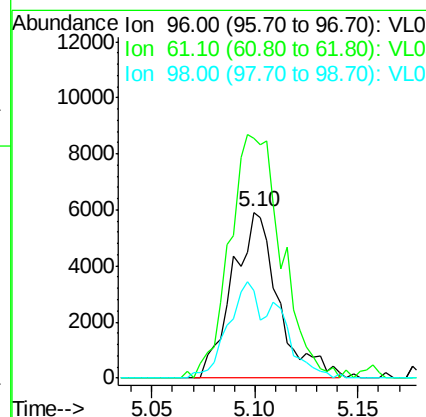
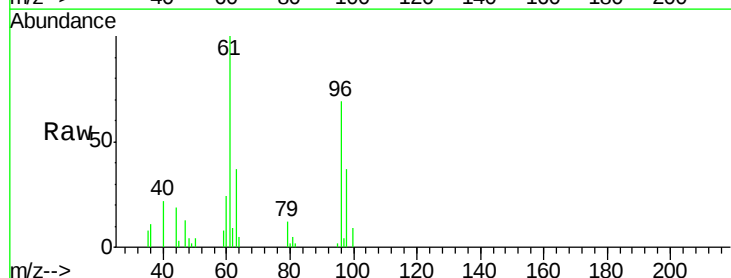
Manual Integrations
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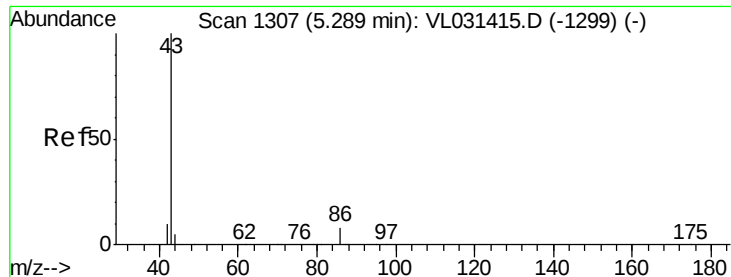
MMDadoda
1/24/2018 5:10:30 PM



#22
trans-1,2-Dichloroethene
Concen: 0.14 ppbv m
RT: 5.10 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	144.9	135.0	202.4
98	53.0	52.2	78.2





#23

Vinyl Acetate

Concen: 0.12 ppbv m

RT: 5.31 min Scan# 1313

Delta R.T. 0.02 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampled :

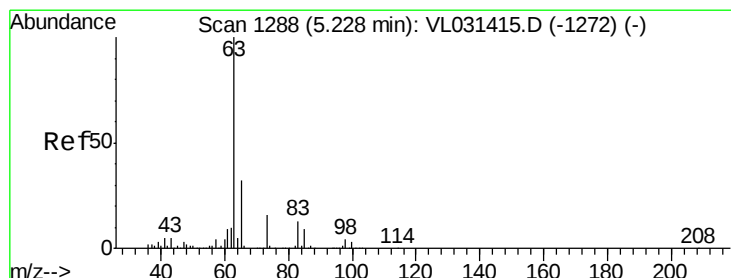
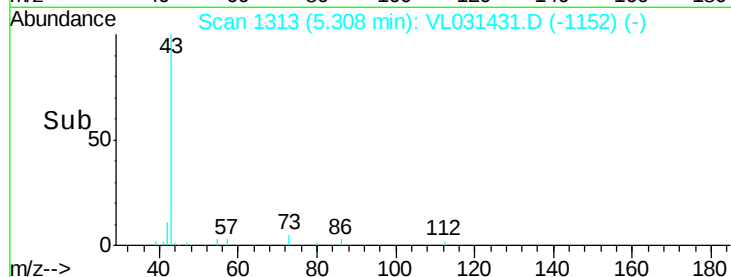
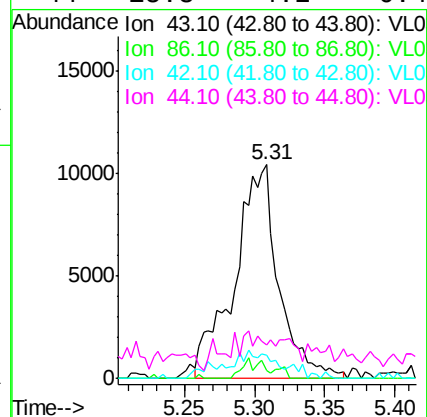
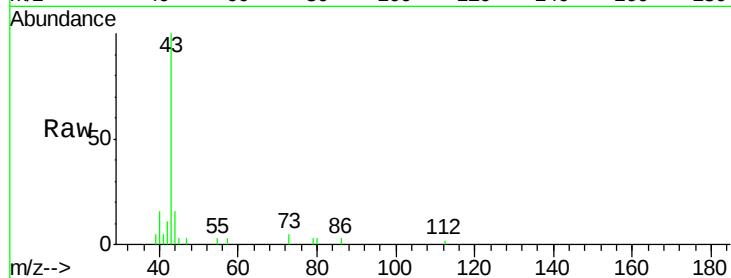
MDL-AIR-6

Tot Ion: 43 Resp: 22992

Ion	Ratio	Lower	Upper
43	100		
86	3.4	5.6	8.4#
42	10.6	8.6	12.8
44	15.8	4.2	6.4#

Manual Integrations
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1/24/2018 5:10:30 PM



#24

1,1-Dichloroethane

Concen: 0.13 ppbv m

RT: 5.22 min Scan# 1287

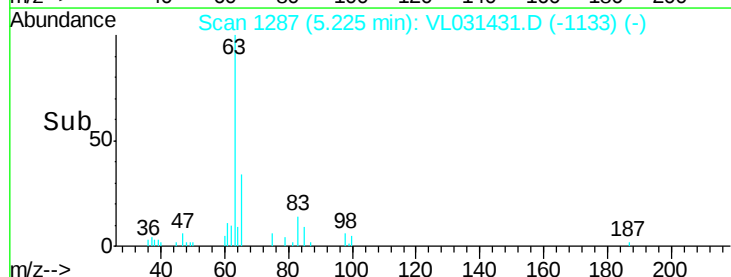
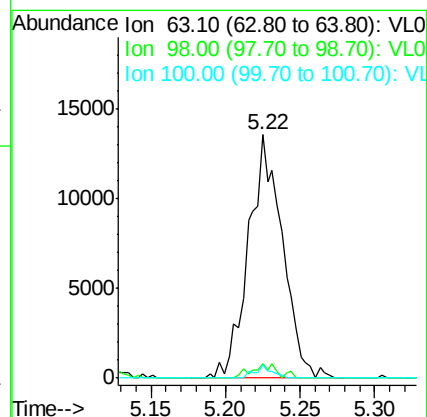
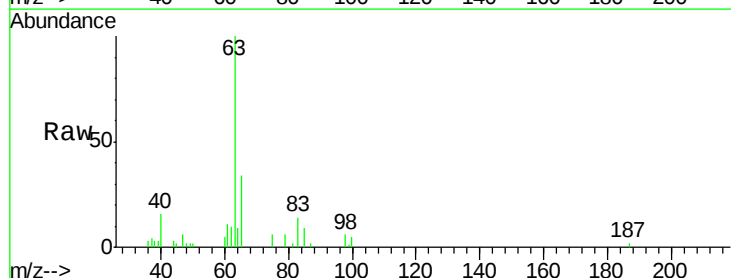
Delta R.T. -0.01 min

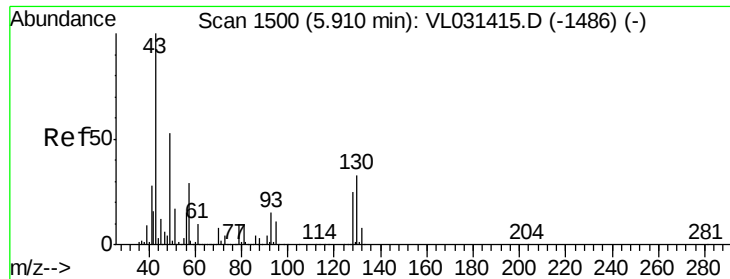
Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion: 63 Resp: 21399

Ion	Ratio	Lower	Upper
63	100		
98	5.9	2.4	7.1
100	5.3	1.3	3.9#





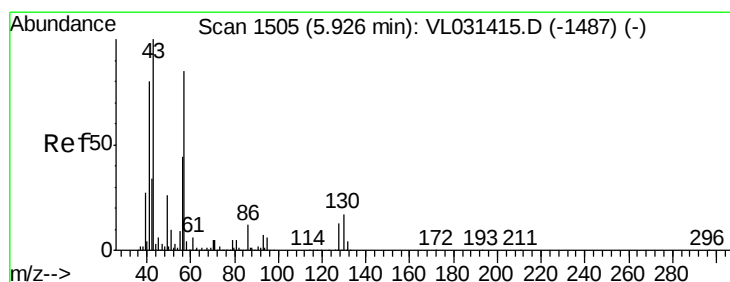
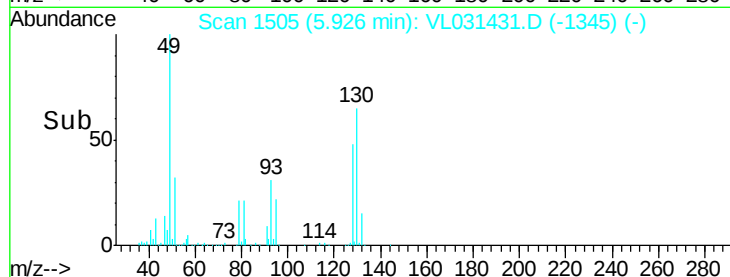
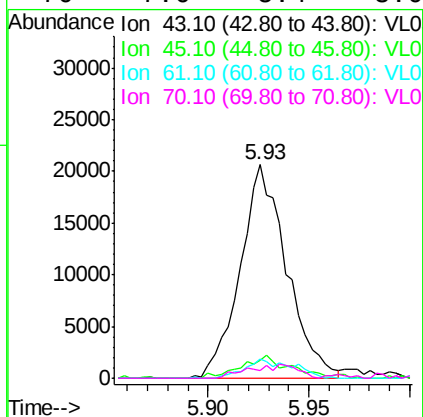
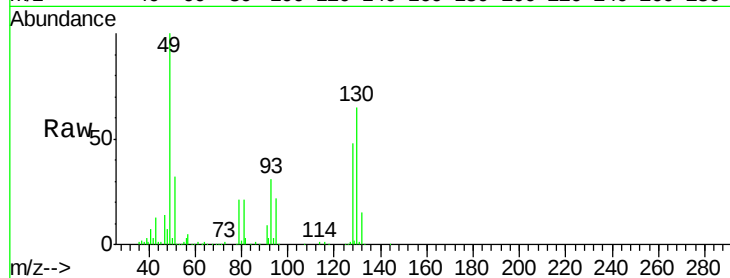
#25
Ethyl Acetate
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	11.6	7.8	11.6#	
61	9.2	7.0	10.6	
70	7.6	5.4	8.0	

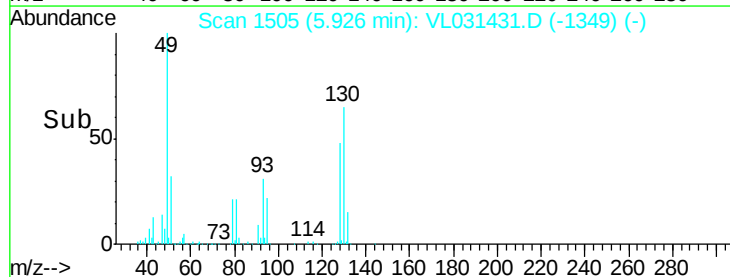
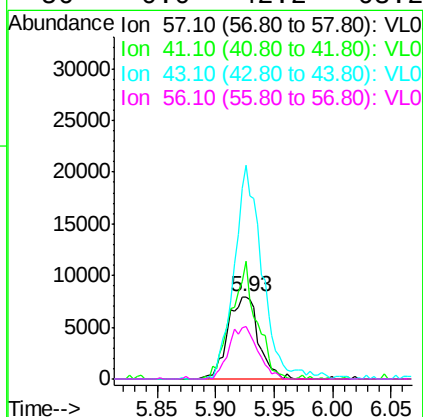
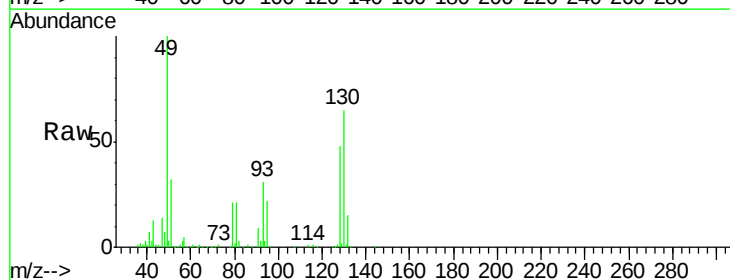
Manual Integrations
APPROVED

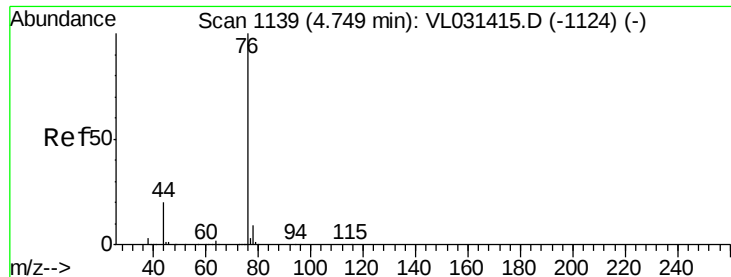
MMDadoda
1/24/2018 5:10:30 PM



#26
Hexane
Concen: 0.11 ppbv m
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	0.0	77.1	115.7#	
43	0.0	180.7	271.1#	
56	0.0	42.2	63.2#	





#27

Carbon Disulfide

Concen: 0.11 ppbv

RT: 4.76 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

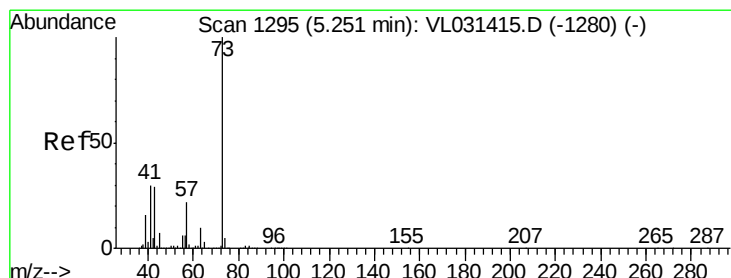
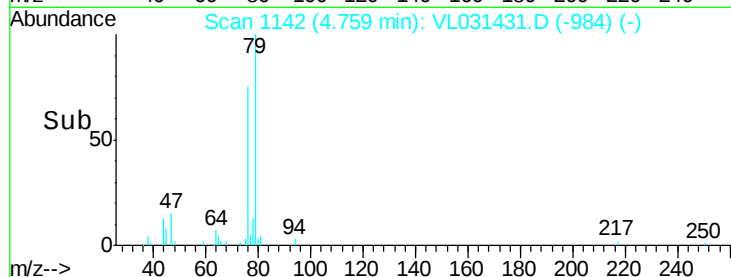
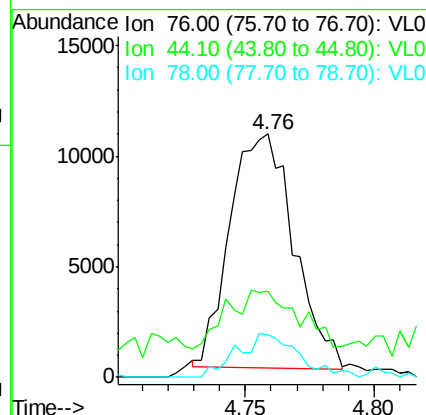
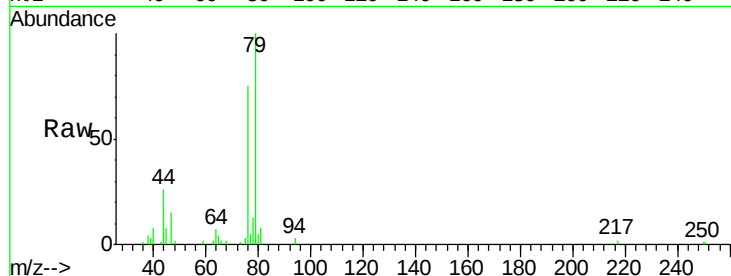
ClientSampleId :

MDL-AIR-6

Tot Ion:	76	Resp:	18234
Ion	Ratio	Lower	Upper
76	100		
44	44.2	16.7	25.1#
78	19.3	7.5	11.3#

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:30 PM



#28

Methyl tert-Butyl Ether

Concen: 0.11 ppbv

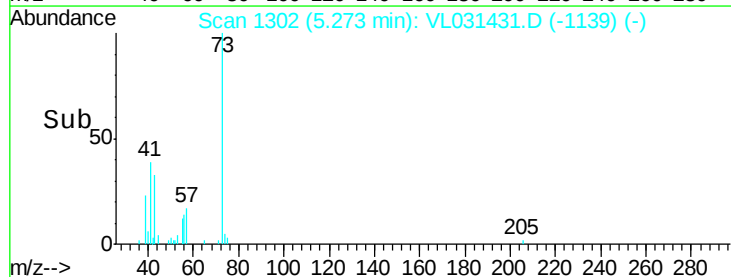
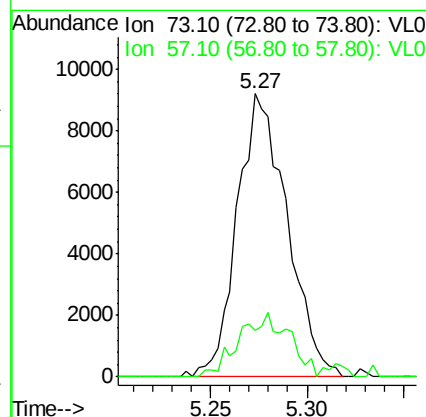
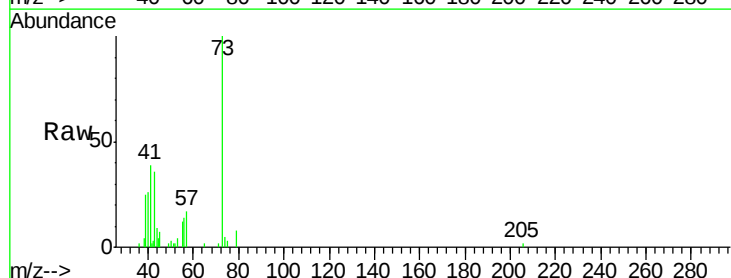
RT: 5.27 min Scan# 1302

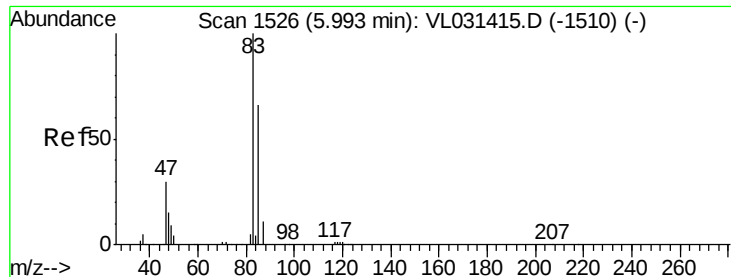
Delta R.T. 0.02 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion:	73	Resp:	16426
Ion	Ratio	Lower	Upper
73	100		
57	25.1	17.5	26.3





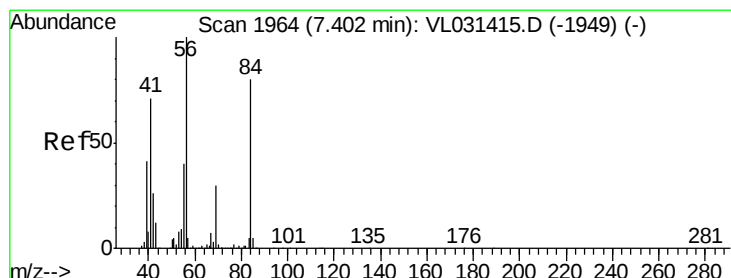
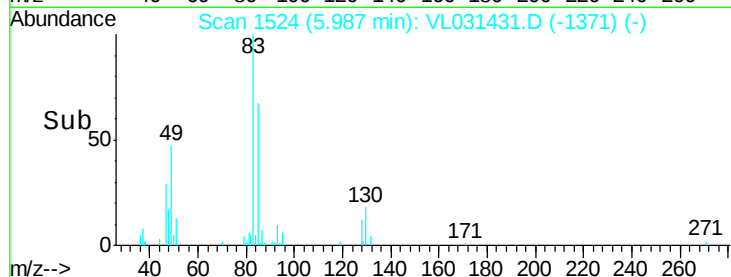
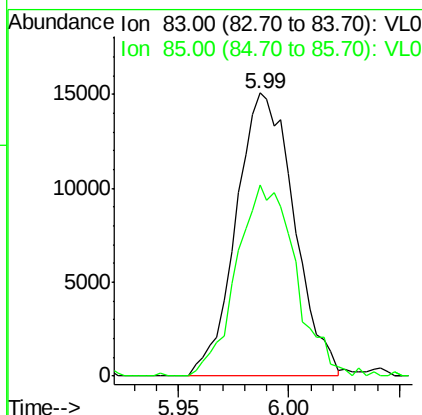
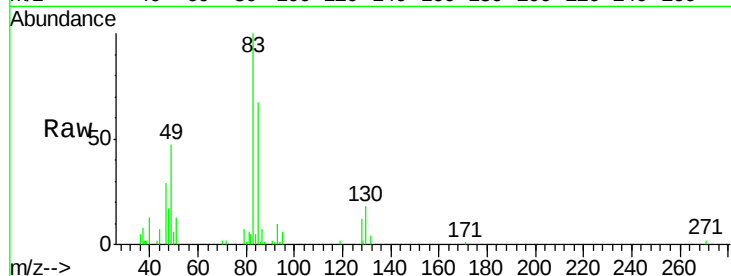
#29
Chloroform
Concen: 0.13 ppbv
RT: 5.99 min Scan# 1524
Delta R.T. -0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion	83	Resp	27403
Ion Ratio	100	Lower	Upper
85	64.3	51.3	76.9

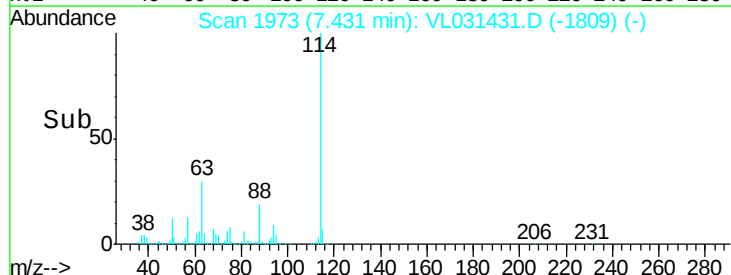
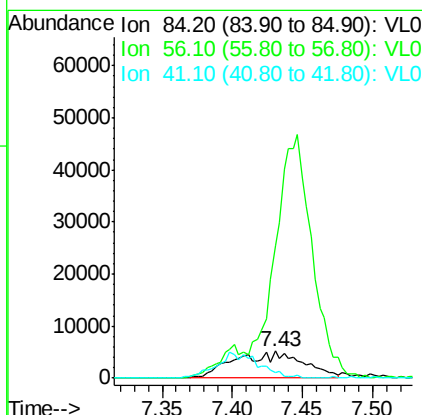
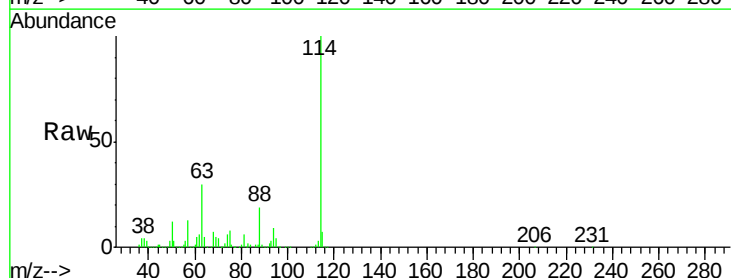
Manual Integrations
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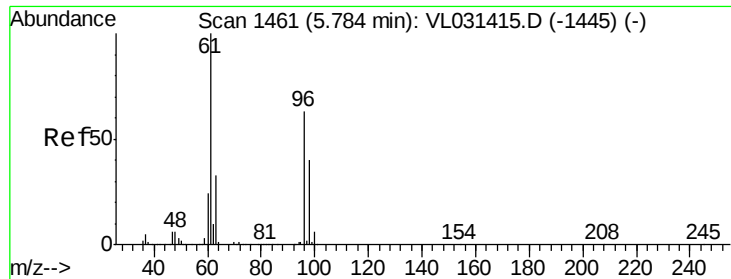
MMDadoda
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#30
Cyclohexane
Concen: 0.18 ppbv m
RT: 7.43 min Scan# 1973
Delta R.T. 0.03 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	84	Resp	17334
Ion Ratio	100	Lower	Upper
56	0.0	109.0	163.4#
41	59.5	73.3	109.9#





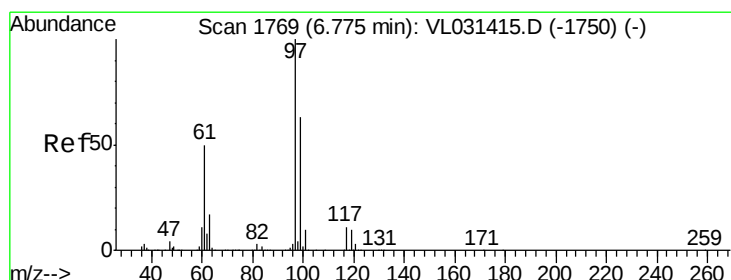
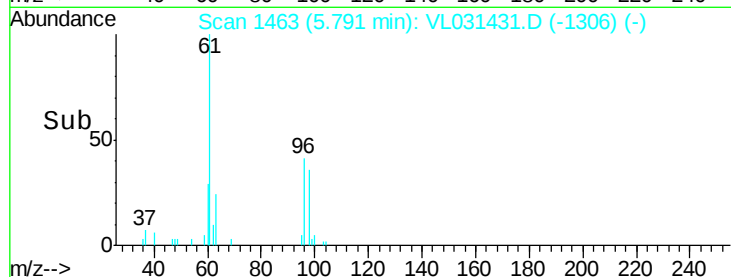
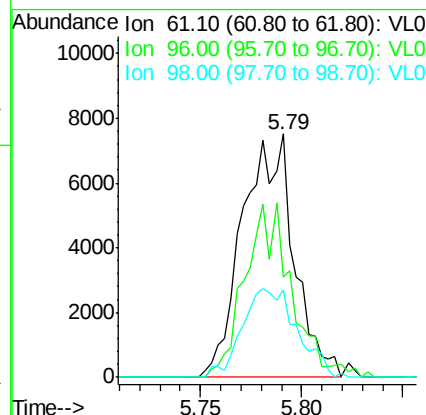
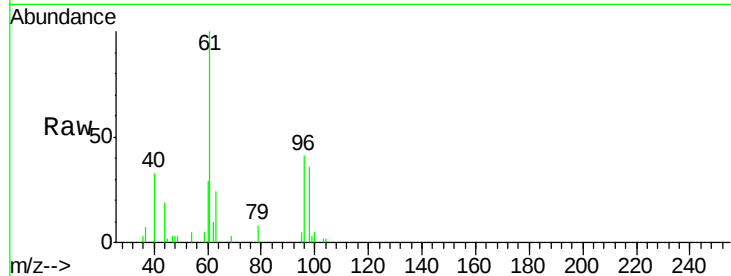
#31
 cis-1,2-Dichloroethene
 Concen: 0.11 ppbv m
 RT: 5.79 min Scan# 1463
 Delta R.T. 0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
61	100		
96	40.9	51.3	76.9#
98	35.9	33.6	50.4

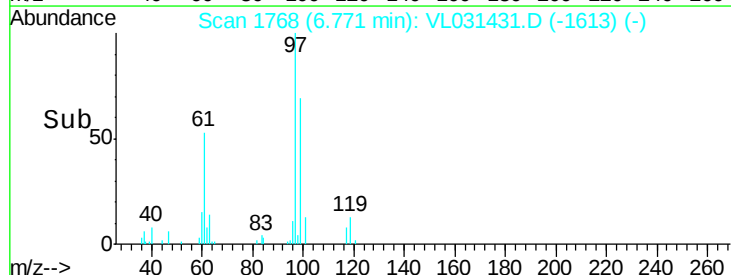
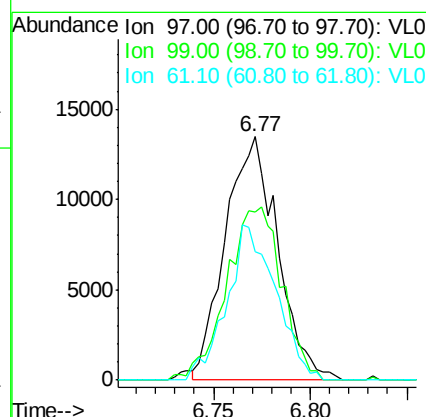
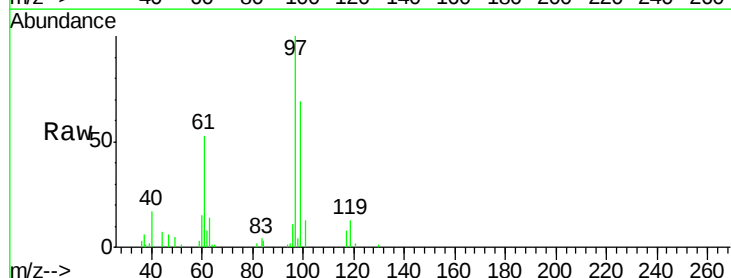
Manual Integrations
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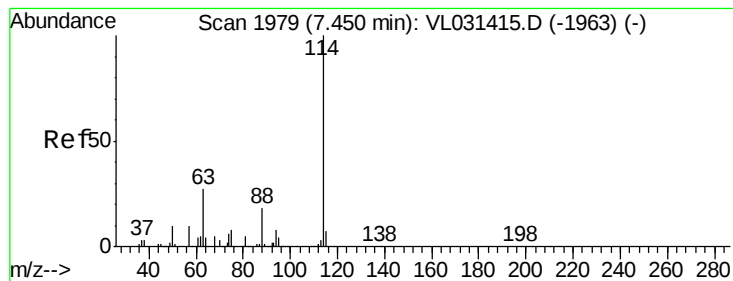
MMDadoda
 1/24/2018 5:10:30 PM



#32
 1,1,1-Trichloroethane
 Concen: 0.12 ppbv
 RT: 6.77 min Scan# 1768
 Delta R.T. -0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	75.2	51.9	77.9
61	59.4	40.6	61.0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.44 min Scan# 1977

Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-6

Tot Ion:114 Resp: 2725005

Ion Ratio Lower Upper

114 100

63 28.2 22.5 33.7

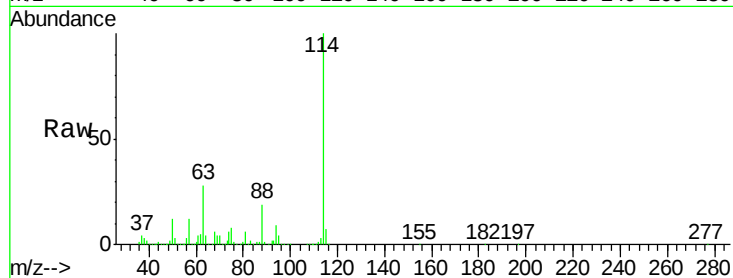
88 18.7 14.6 22.0

Manual Integrations

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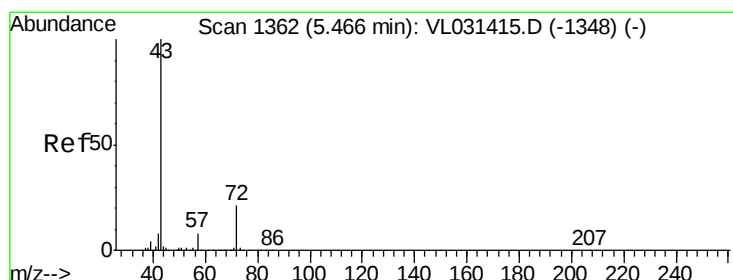
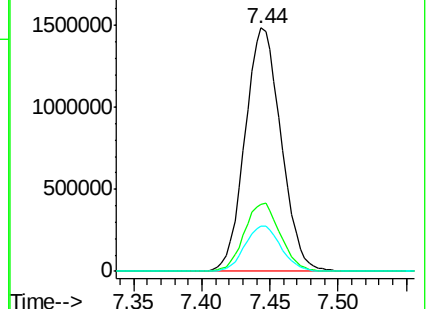
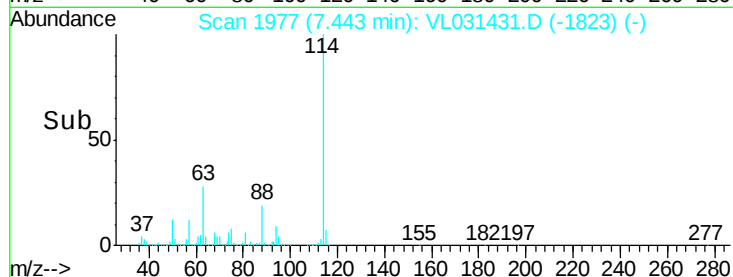
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.13 ppbv

RT: 5.49 min Scan# 1370

Delta R.T. 0.02 min

Lab File: VL031431.D

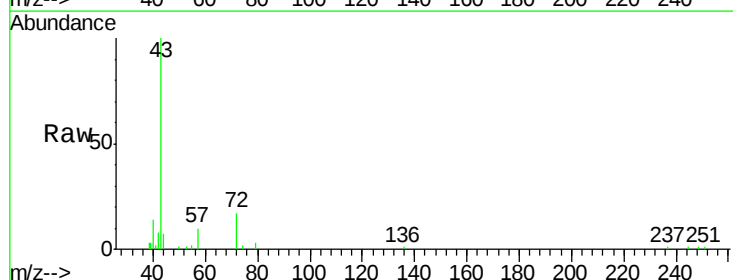
Acq: 23 Jan 2018 00:51

Tgt Ion: 43 Resp: 21963

Ion Ratio Lower Upper

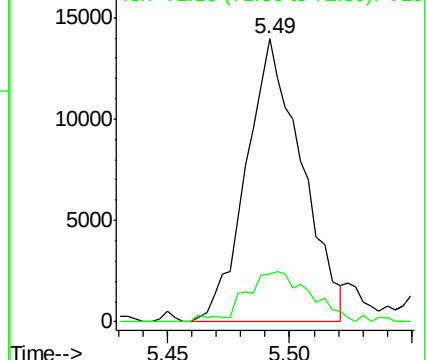
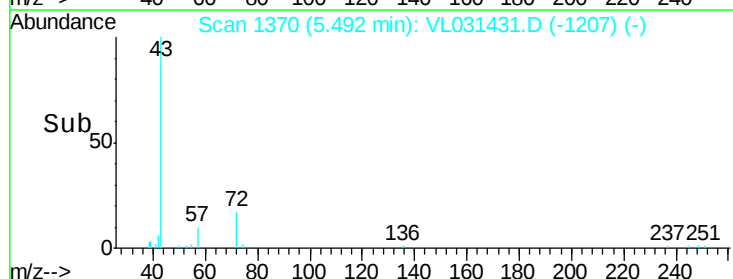
43 100

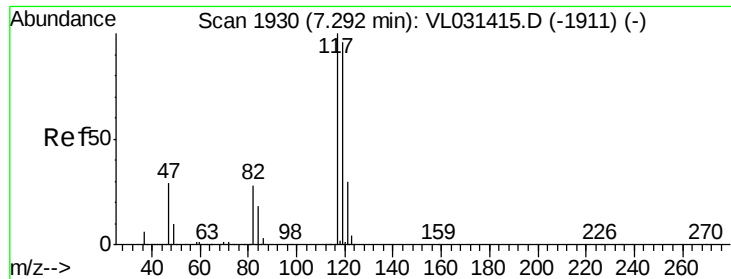
72 21.4 16.8 25.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.13 ppbv m

RT: 7.29 min Scan# 1928

Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

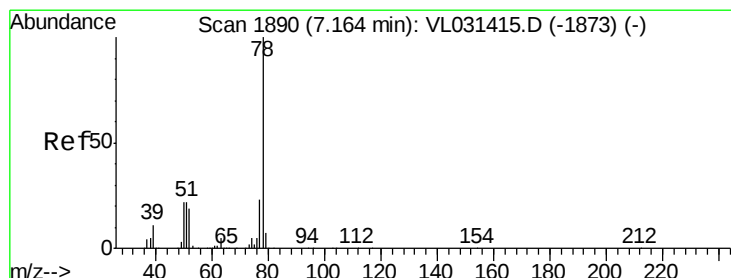
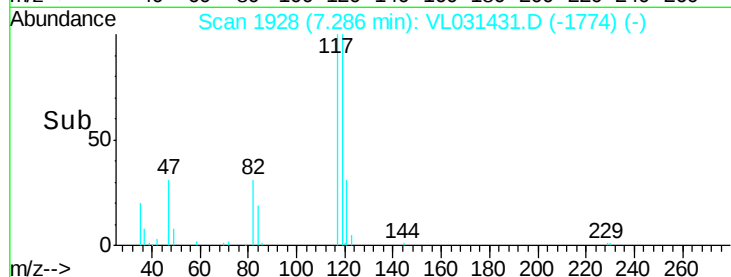
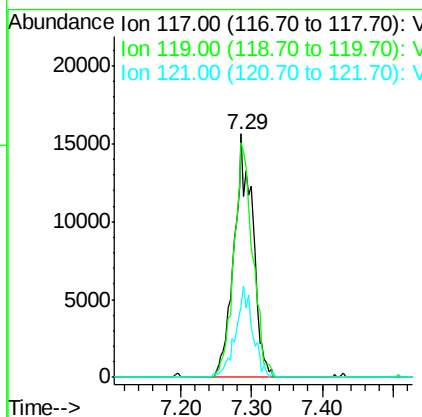
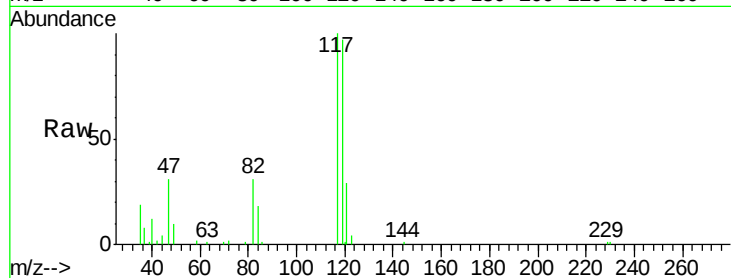
ClientSampleId :

MDL-AIR-6

Tot Ion:	117	Resp:	28892
Ion	Ratio	Lower	Upper
117	100		
119	96.6	74.2	111.4
121	29.0	24.2	36.4

Manual Integrations
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1/24/2018 5:10:30 PM



#36

Benzene

Concen: 0.10 ppbv

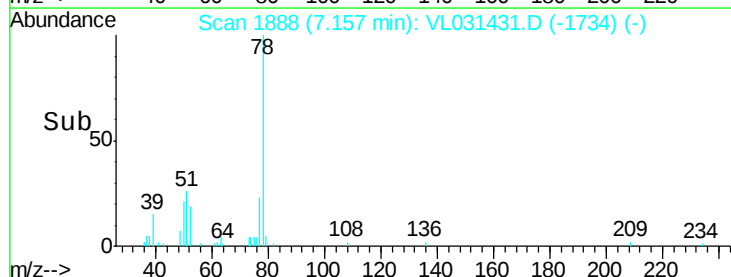
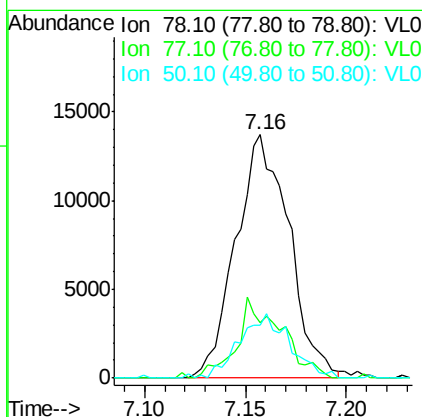
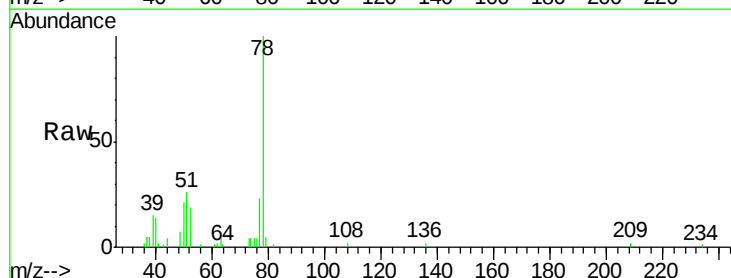
RT: 7.16 min Scan# 1888

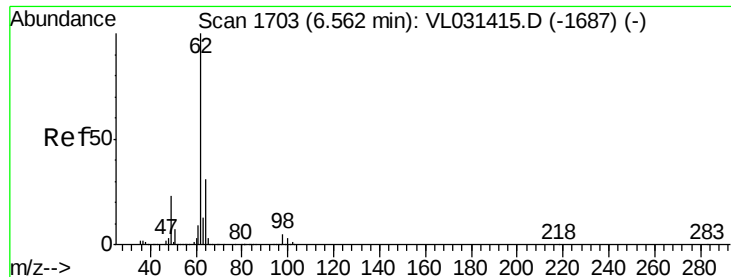
Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion:	78	Resp:	25284
Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.7	28.1
50	21.5	18.4	27.6





#37

1,2-Dichloroethane

Concen: 0.13 ppbv m

RT: 6.56 min Scan# 1701

Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

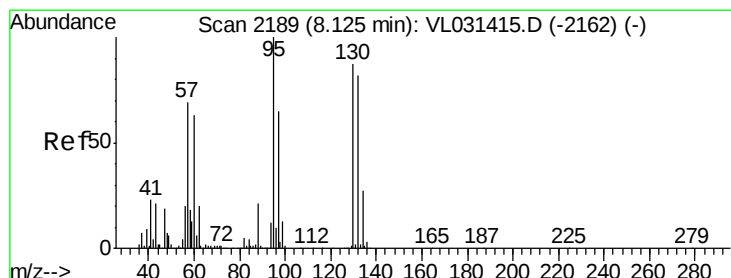
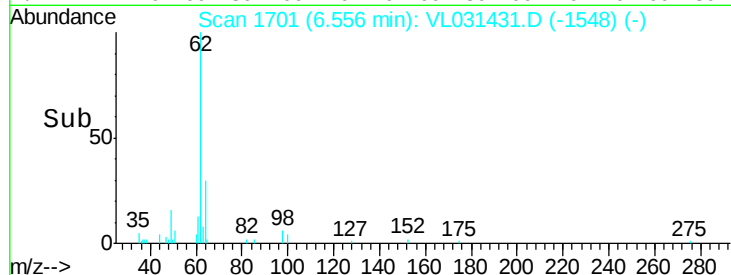
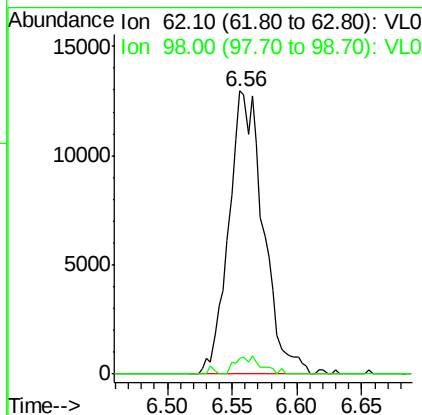
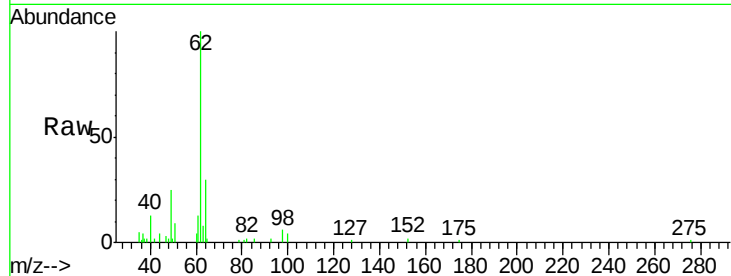
ClientSampleId :

MDL-AIR-6

Tot Ion	Ratio	Resp	Lower	Upper
62	100	24306		
98	0.0	4.1	6.1#	

Manual Integrations
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1/24/2018 5:10:30 PM



#38

Trichloroethene

Concen: 0.13 ppbv m

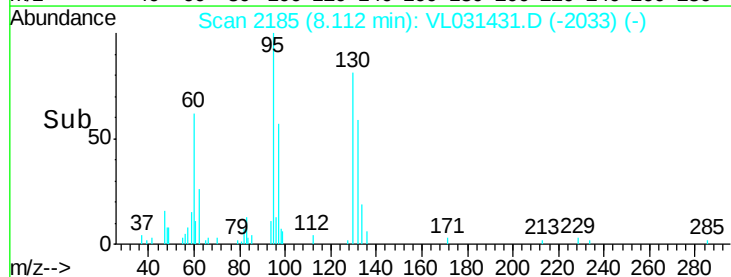
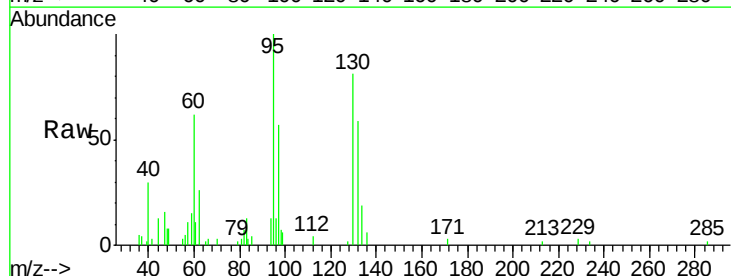
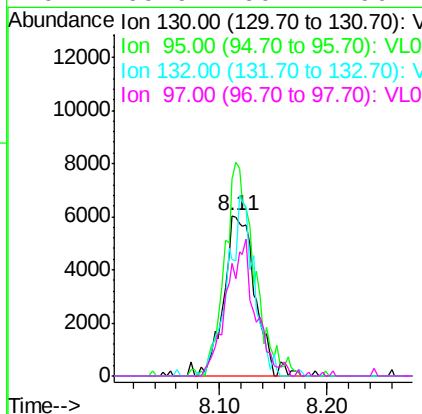
RT: 8.11 min Scan# 2185

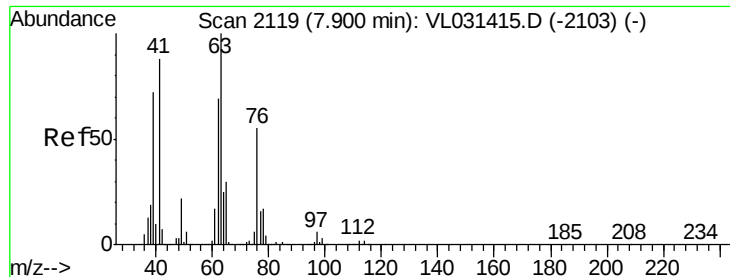
Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	12200		
95	123.0	92.9	139.3	
132	72.8	74.9	112.3#	
97	69.9	60.2	90.4	





#39

1,2-Dichloropropane

Concen: 0.13 ppbv m

RT: 7.90 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

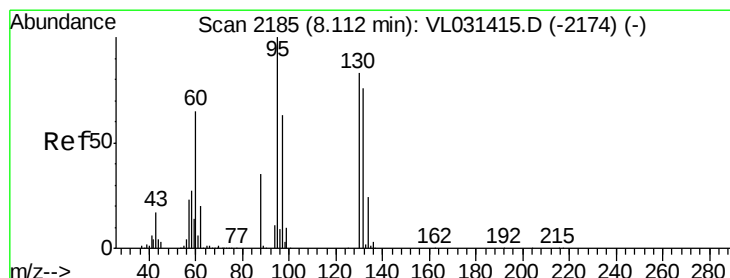
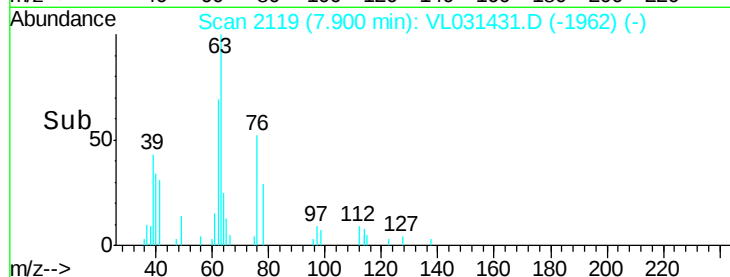
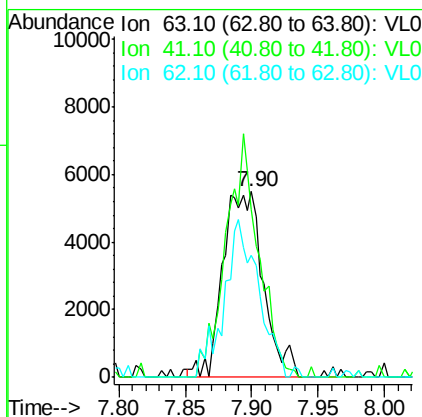
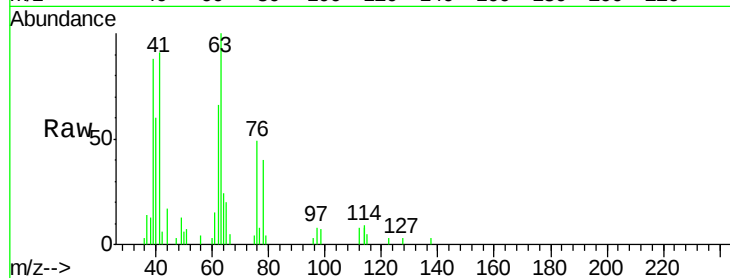
ClientSampleID :

MDL-AIR-6

Tot Ion:	63	Resp:	11639
Ion	Ratio	Lower	Upper
63	100		
41	90.6	67.6	101.4
62	65.6	51.8	77.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 0.08 ppbv m

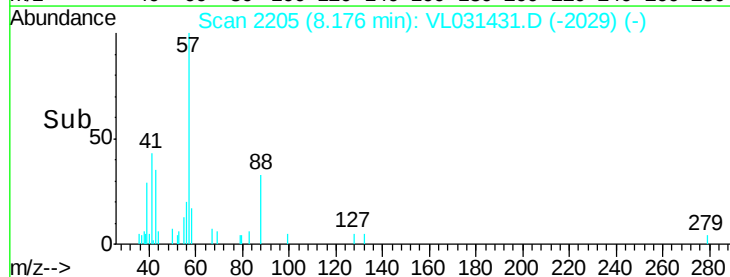
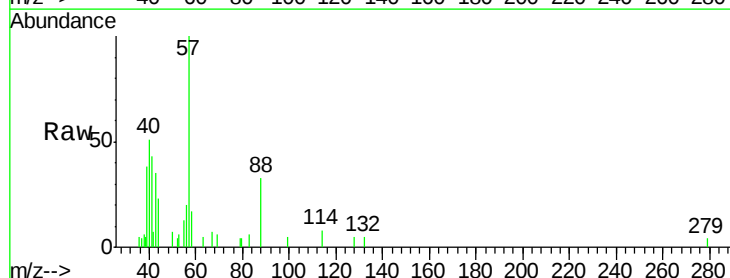
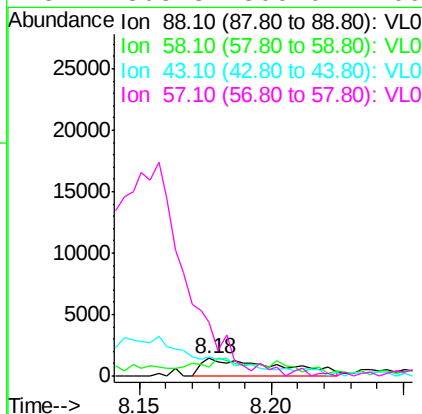
RT: 8.18 min Scan# 2205

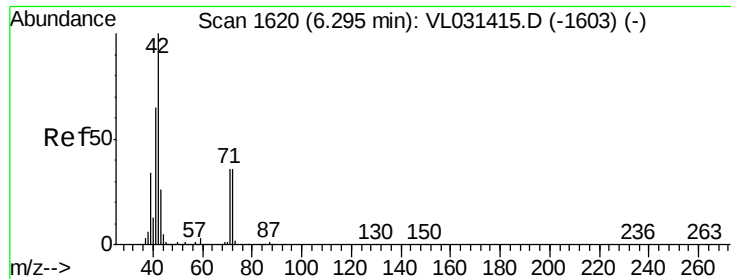
Delta R.T. 0.06 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion:	88	Resp:	2941
Ion	Ratio	Lower	Upper
88	100		
58	32.2	98.2	147.2#
43	317.3	197.3	295.9#
57	1303.5	806.0	1209.0#





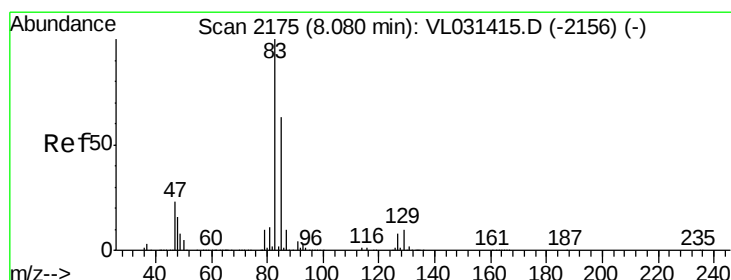
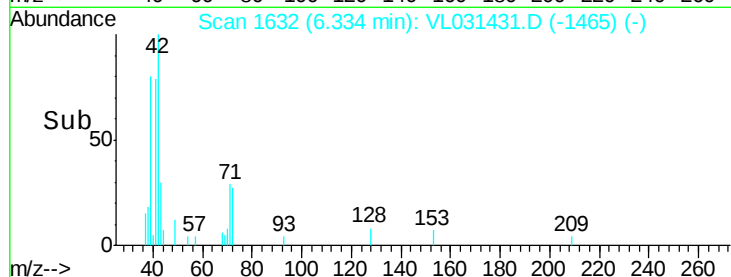
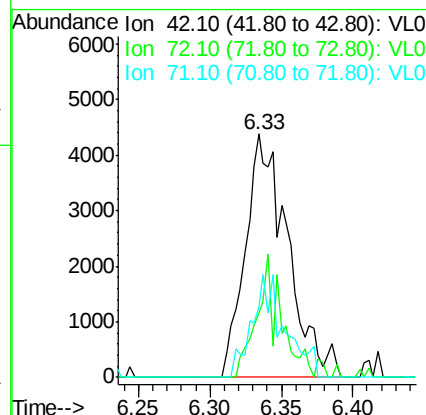
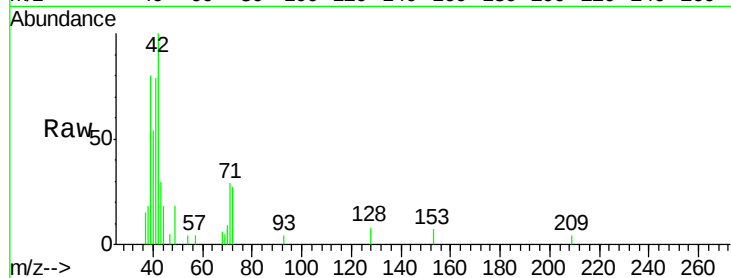
#41
Tetrahydrofuran
Concen: 0.09 ppbv m
RT: 6.33 min Scan# 1632
Delta R.T. 0.04 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.4	45.6#
71	0.0	29.2	43.8#

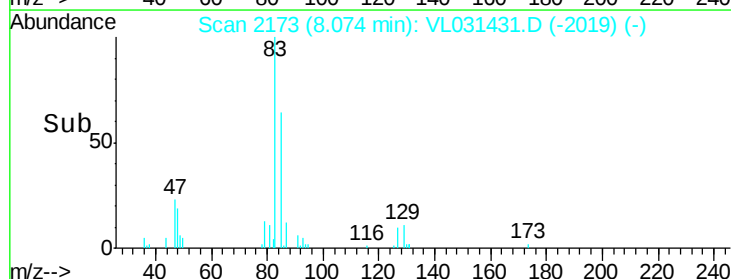
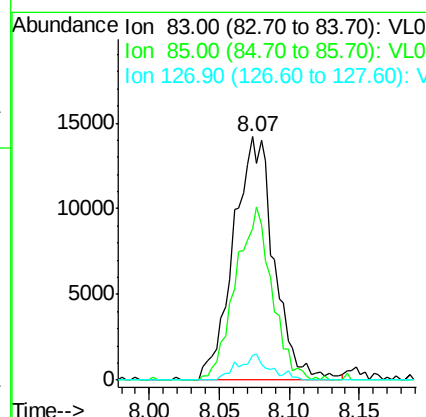
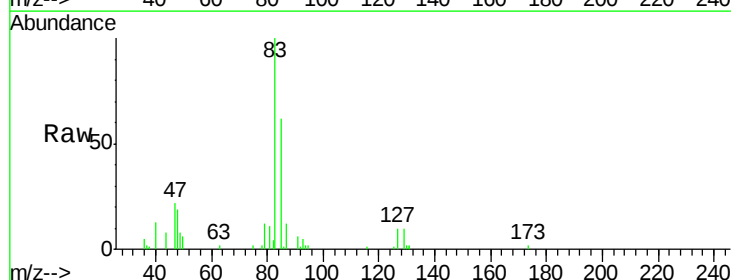
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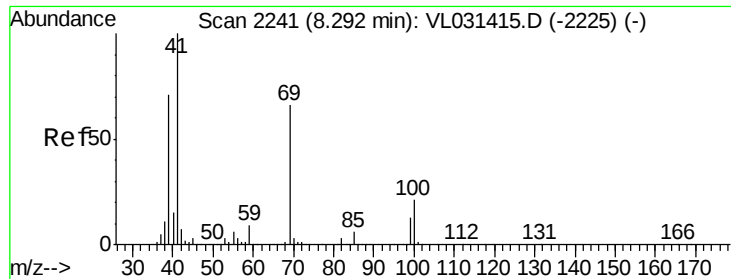
MMDadoda
1/24/2018 5:10:30 PM



#42
Bromodichloromethane
Concen: 0.13 ppbv m
RT: 8.07 min Scan# 2173
Delta R.T. -0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.1	52.1	78.1
127	10.1	6.6	10.0#





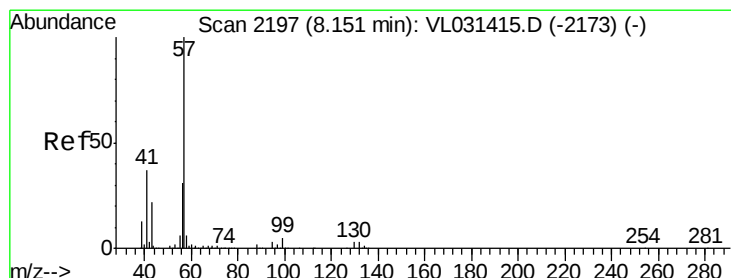
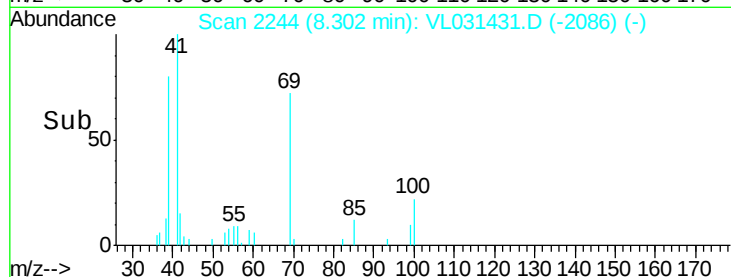
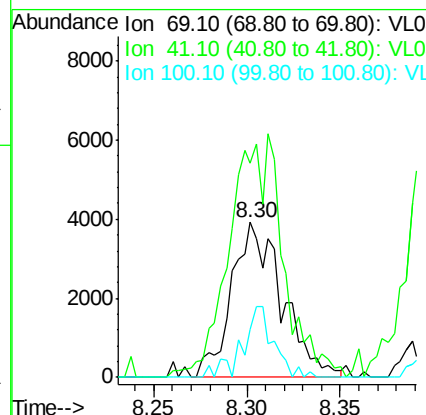
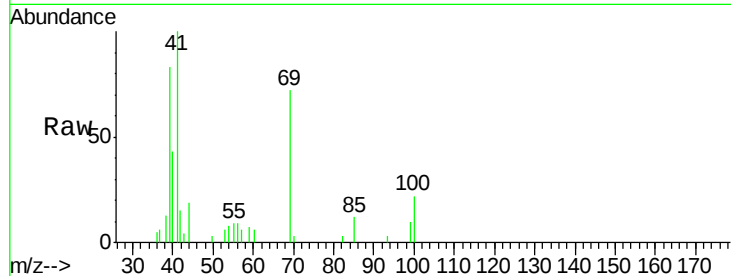
#43
Methvl Methacrylate
Concen: 0.08 ppbv m
RT: 8.30 min Scan# 2244
Delta R.T. 0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	127.0	190.6#
100	0.0	24.6	37.0#

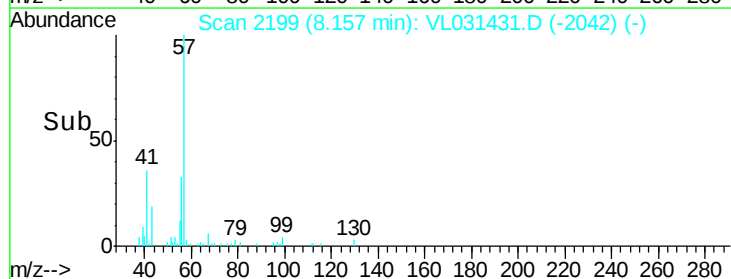
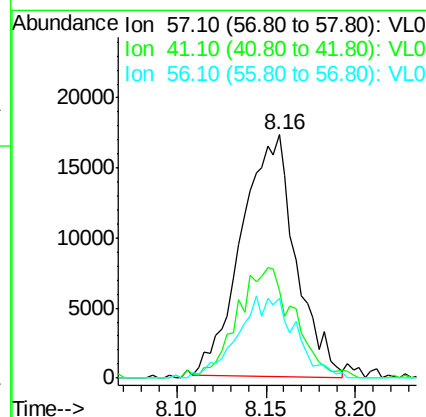
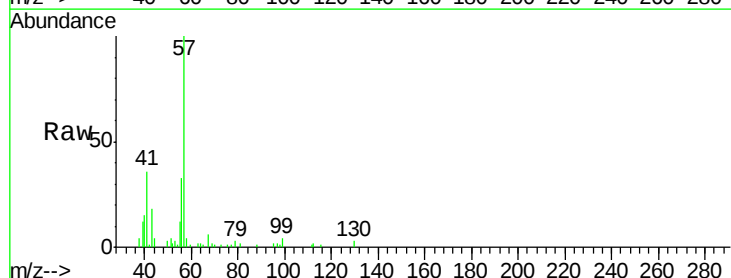
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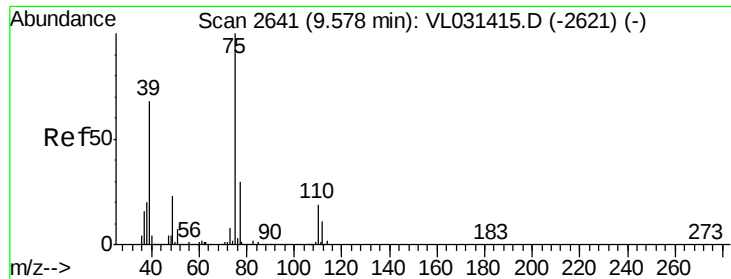
MMDadoda
1/24/2018 5:10:30 PM



#44
2,2,4-Trimethylpentane
Concen: 0.09 ppbv
RT: 8.16 min Scan# 2199
Delta R.T. 0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
57	100		
41	48.6	28.8	43.2#
56	35.9	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 0.07 ppbv

RT: 9.58 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-6

Tot Ion: 75 Resp: 8706

Ion Ratio Lower Upper

75 100

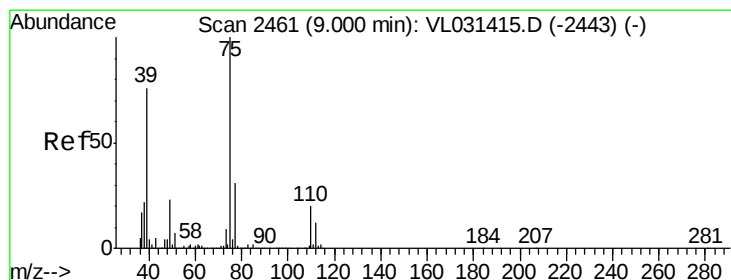
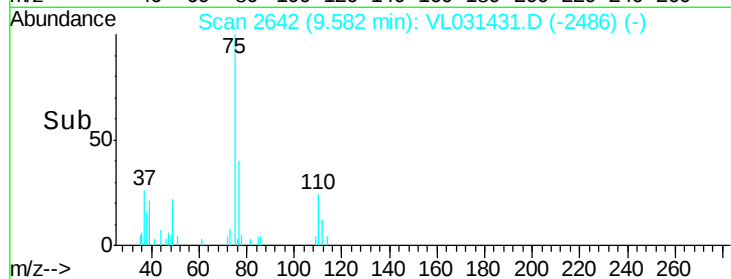
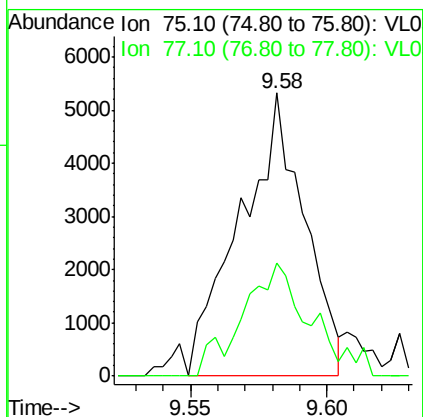
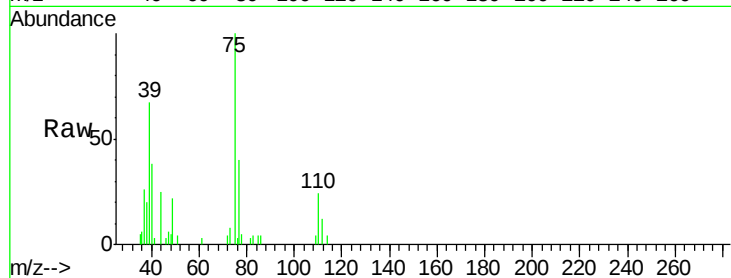
77 40.0 25.3 37.9#

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 0.08 ppbv m

RT: 9.00 min Scan# 2460

Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

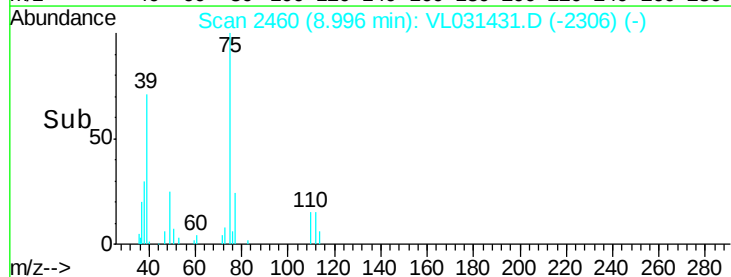
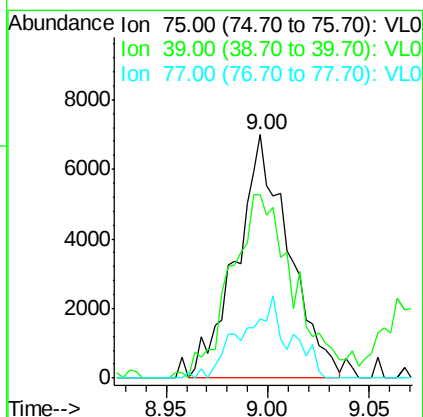
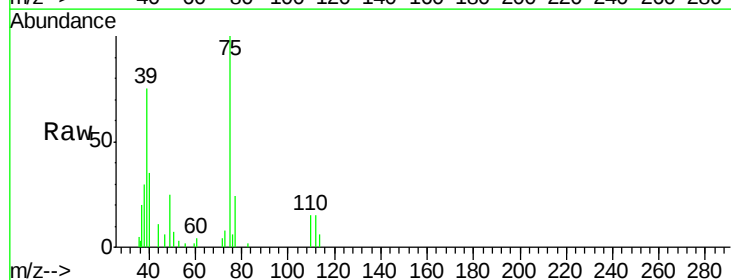
Tgt Ion: 75 Resp: 12521

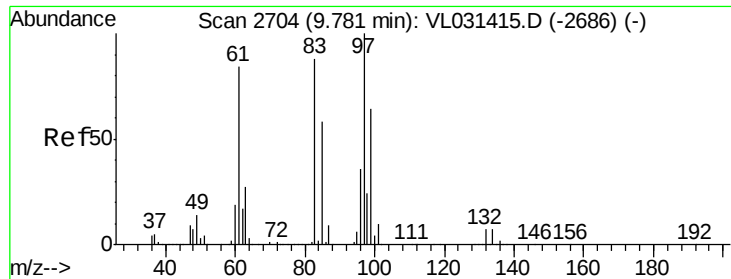
Ion Ratio Lower Upper

75 100

39 75.4 59.4 89.0

77 24.2 25.0 37.4#





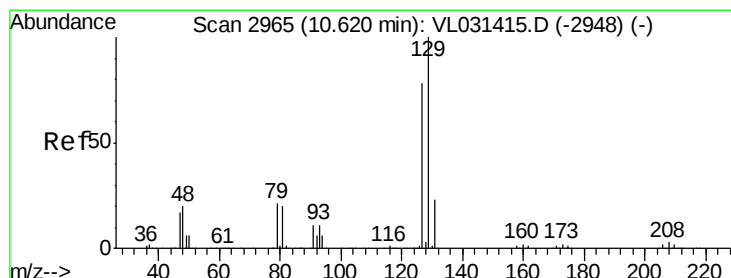
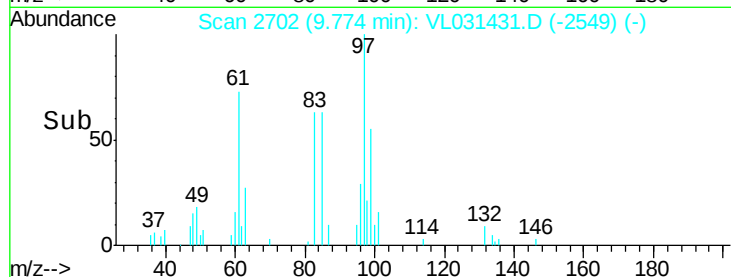
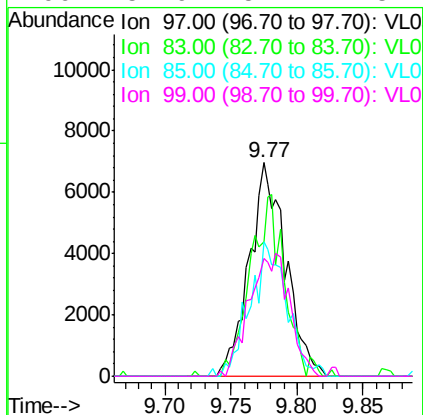
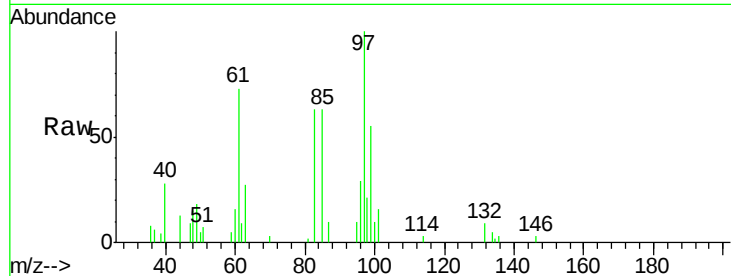
#47
 1,1,2-Trichloroethane
 Concen: 0.12 ppbv m
 RT: 9.77 min Scan# 2702
 Delta R.T. -0.01 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-6

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	63.0	71.4	107.2#	
85	63.1	46.2	69.2	
99	54.9	52.2	78.2	

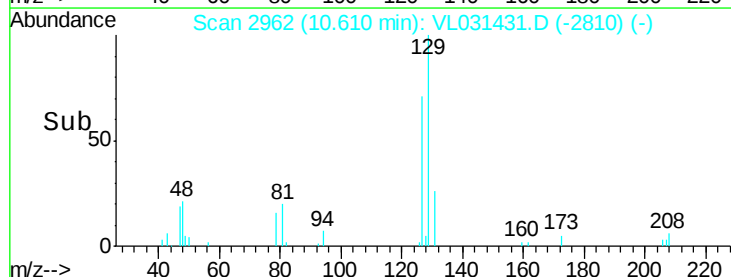
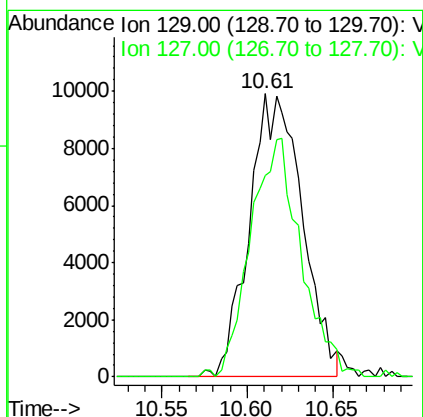
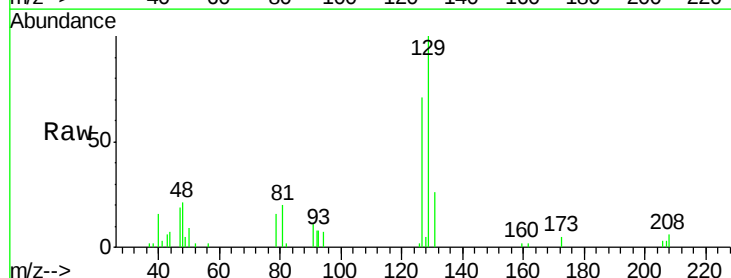
Manual Integrations
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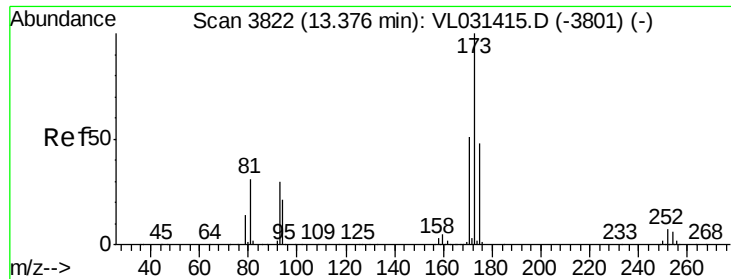
MMDadoda
 1/24/2018 5:10:30 PM



#48
 Dibromochloromethane
 Concen: 0.11 ppbv m
 RT: 10.61 min Scan# 2962
 Delta R.T. -0.01 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	0.0	39.4	118.1#	





#49

Bromoform

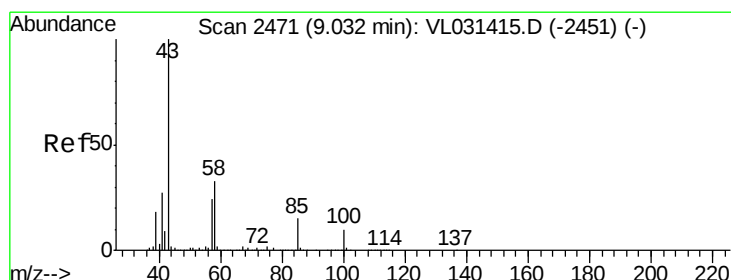
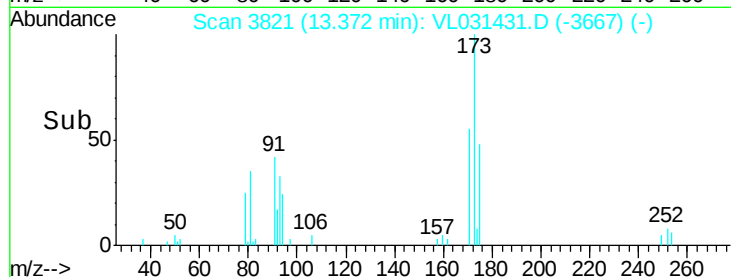
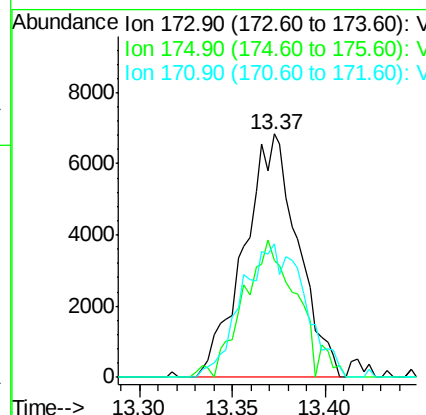
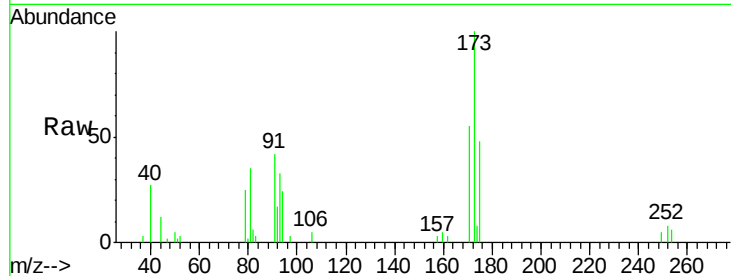
Concen: 0.10 ppbv m
 RT: 13.37 min Scan# 3821
 Delta R.T. -0.01 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
173	100		
175	56.1	39.0	58.4
171	63.9	42.0	63.0#

Manual Integrations
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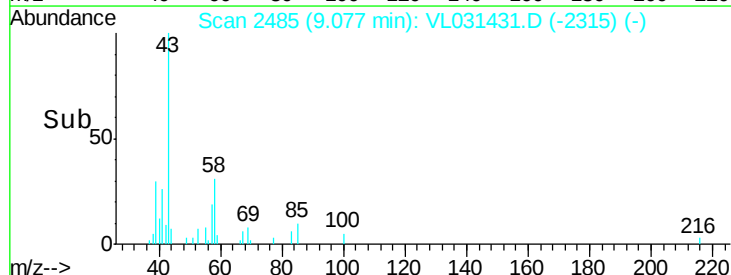
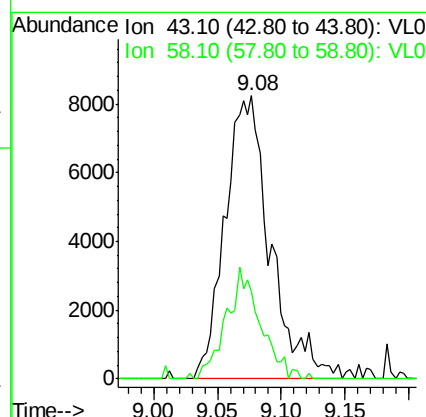
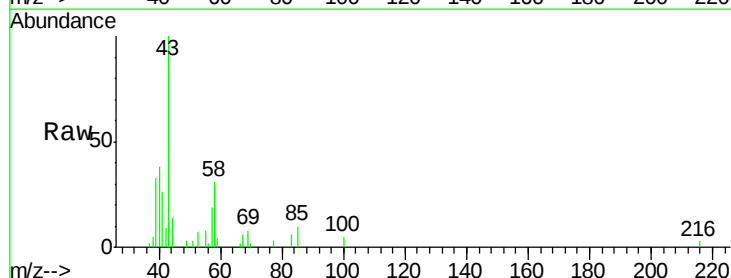


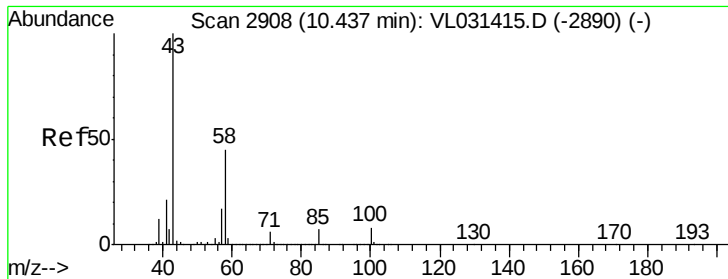
#50

4-Methyl-2-Pentanone

Concen: 0.09 ppbv m
 RT: 9.08 min Scan# 2485
 Delta R.T. 0.05 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.9	27.1	40.7





#51

2-Hexanone

Concen: 0.08 ppbv m

RT: 10.48 min Scan# 2920

Delta R.T. 0.04 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

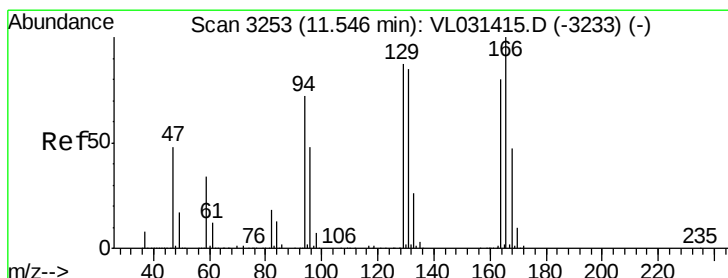
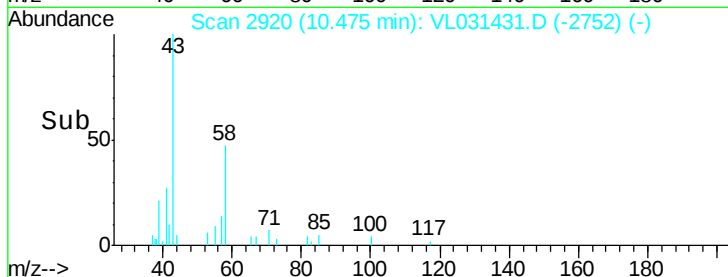
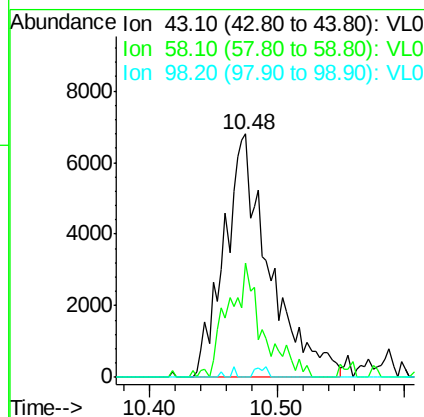
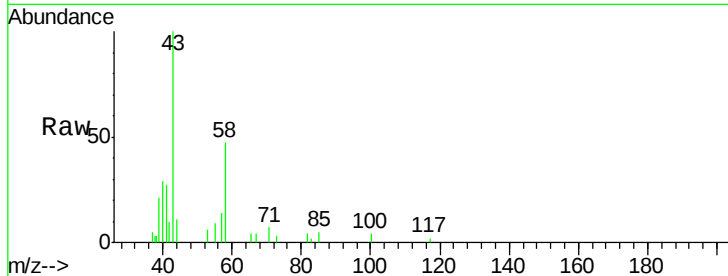
ClientSampleId :

MDL-AIR-6

Tot Ion:	43	Resp:	16657
Ion	Ratio	Lower	Upper
43	100		
58	0.0	36.2	54.4#
98	0.0	0.1	0.1#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.12 ppbv m

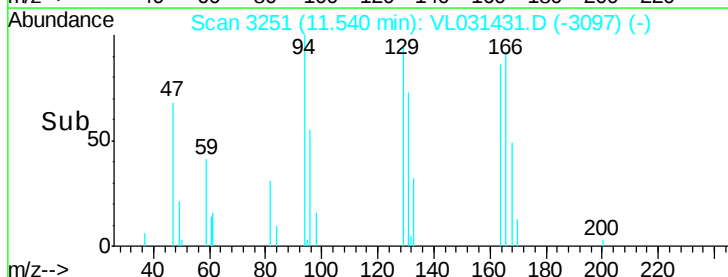
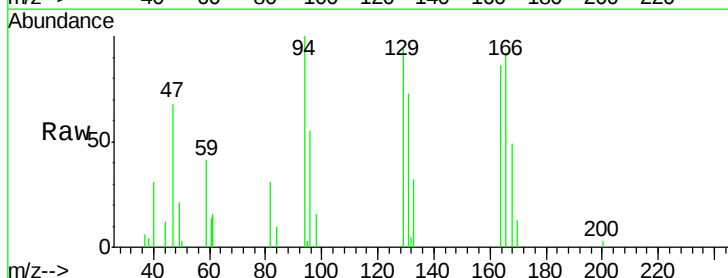
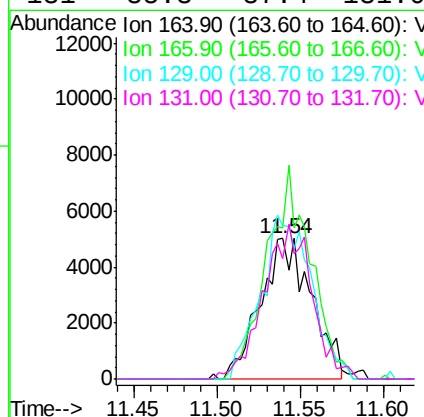
RT: 11.54 min Scan# 3251

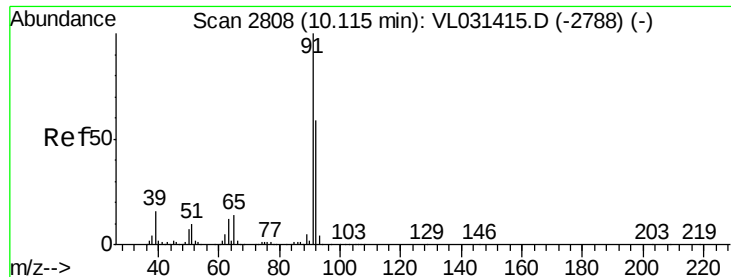
Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion:	164	Resp:	10739
Ion	Ratio	Lower	Upper
164	100		
166	107.6	100.2	150.2
129	109.2	91.4	137.0
131	85.3	87.4	131.0#





#53

Toluene

Concen: 0.08 ppbv m

RT: 10.11 min Scan# 2807

Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-6

Tot Ion: 91 Resp: 23443

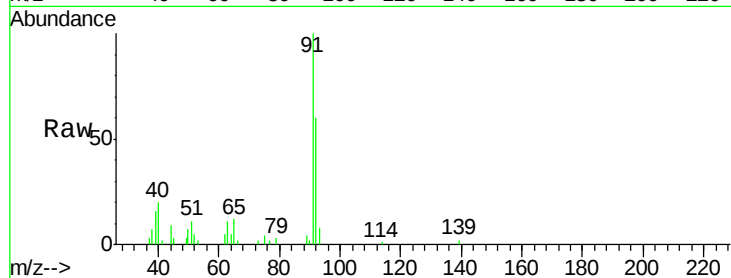
Ion Ratio Lower Upper

91 100

92 61.2 47.8 71.6

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1/24/2018 5:10:30 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

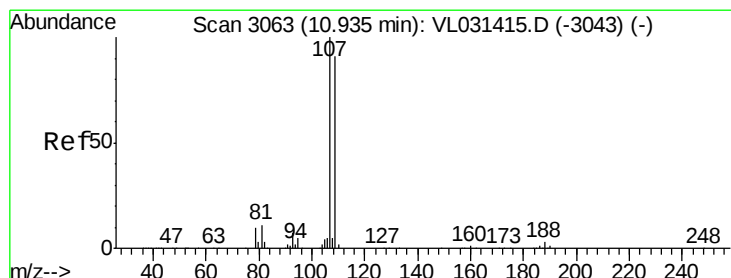
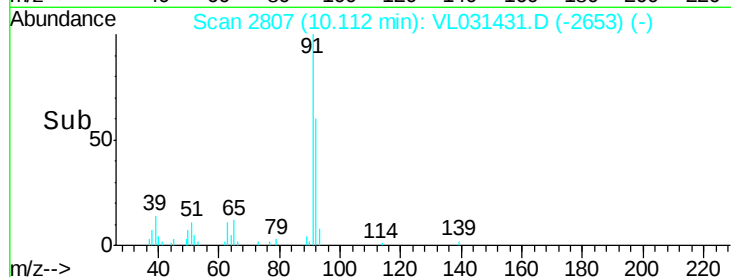
10.11

10000

5000

0

Time-->



#54

1,2-Dibromoethane

Concen: 0.11 ppbv m

RT: 10.93 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VL031431.D

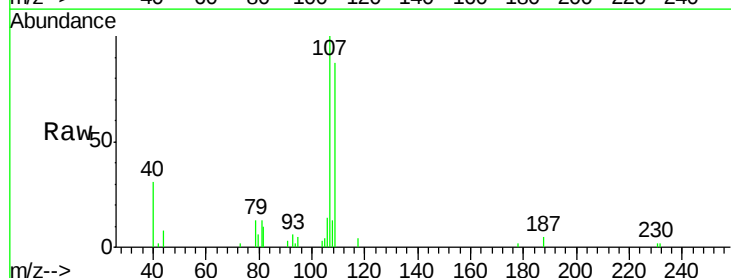
Acq: 23 Jan 2018 00:51

Tgt Ion: 107 Resp: 18380

Ion Ratio Lower Upper

107 100

109 87.1 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.93

10000

8000

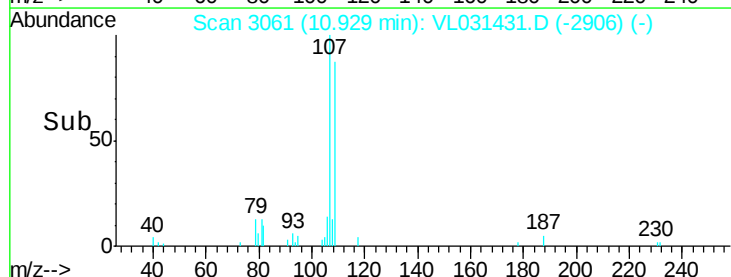
6000

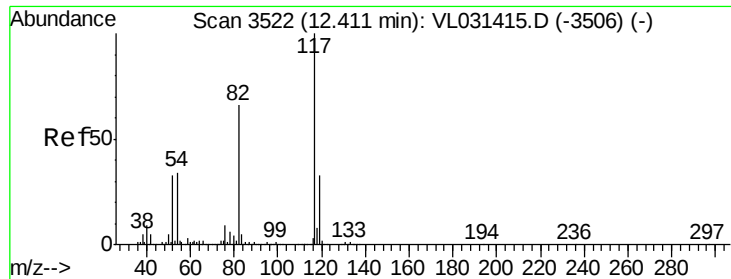
4000

2000

0

Time-->





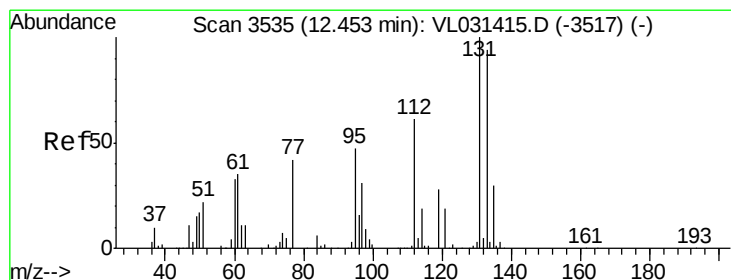
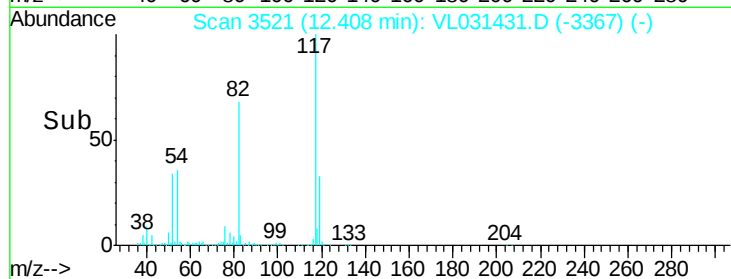
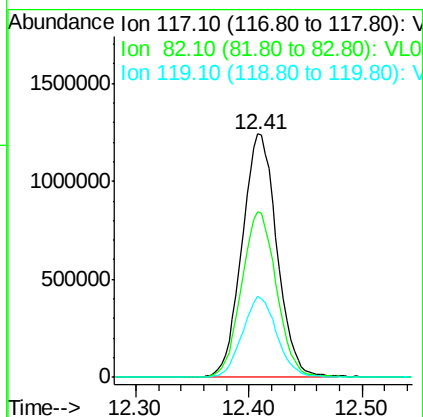
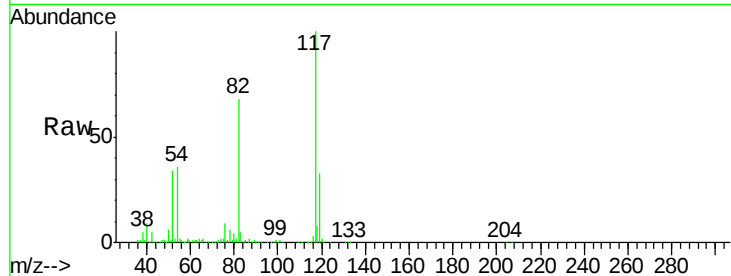
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. -0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.4	51.8	77.6
119	33.1	24.2	36.2

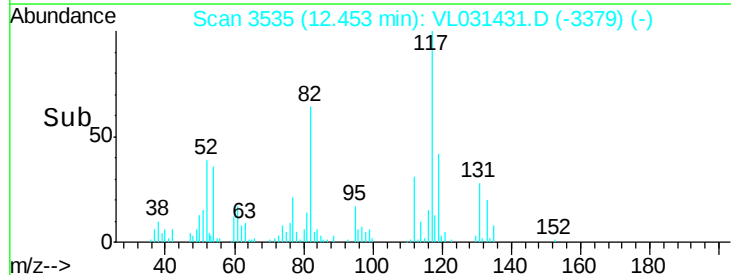
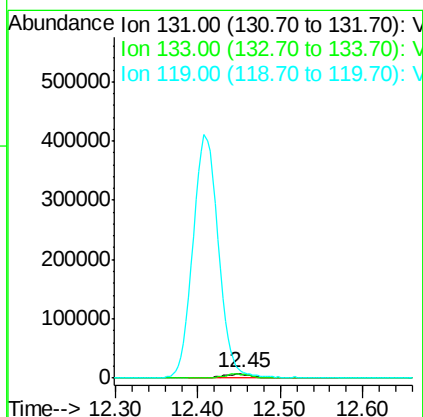
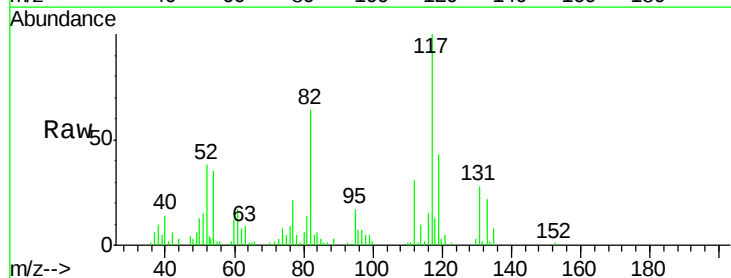
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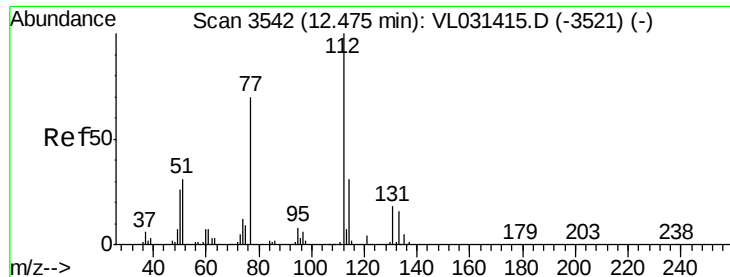
MMDadoda
1/24/2018 5:10:30 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.13 ppbv m
RT: 12.45 min Scan# 3535
Delta R.T. 0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.7	76.9	115.3
119	0.0	47.7	71.5#





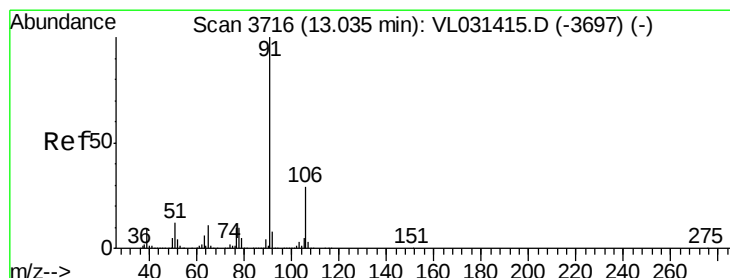
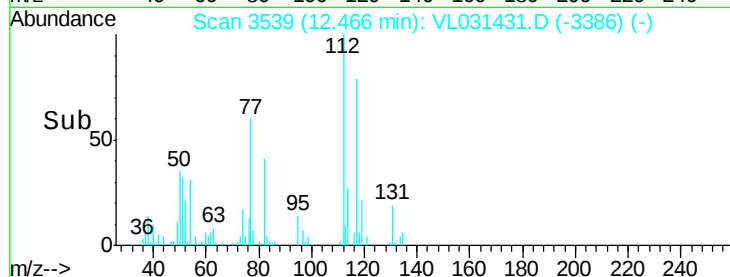
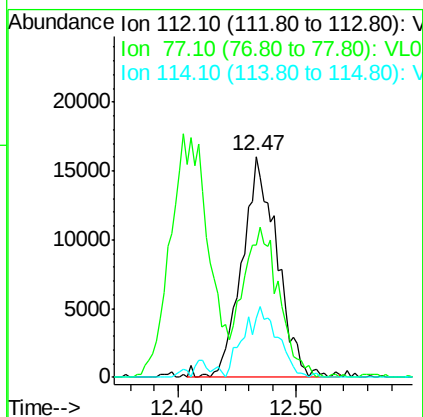
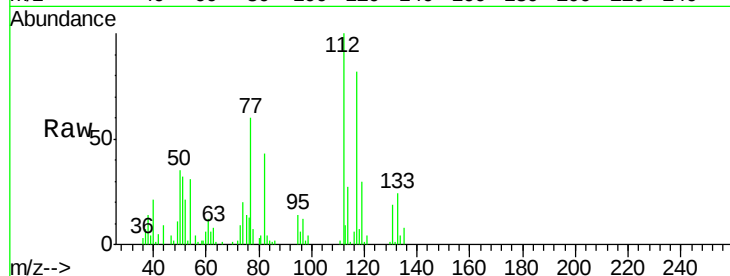
#57
Chlorobenzene
Concen: 0.14 ppbv m
RT: 12.47 min Scan# 3539
Delta R.T. -0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
112	100		
77	59.9	56.0	84.0
114	26.8	29.1	35.5#

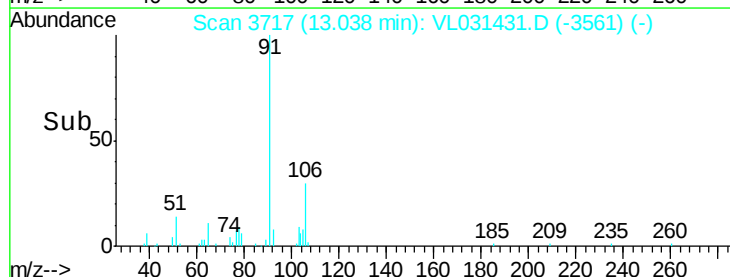
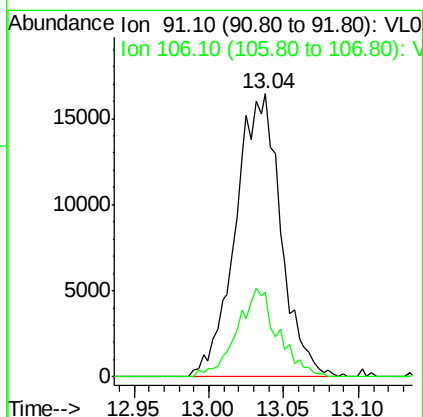
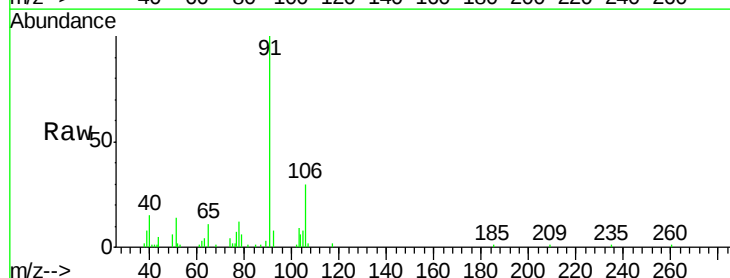
Manual Integrations
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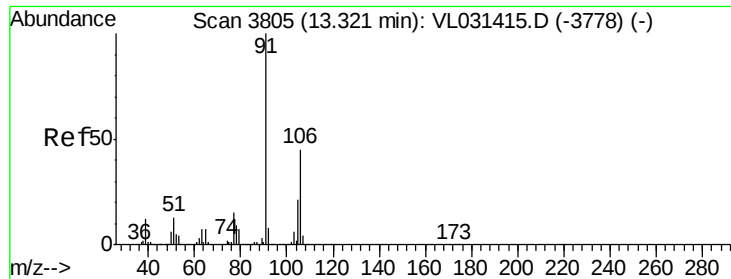
MMDadoda
1/24/2018 5:10:30 PM



#58
Ethyl Benzene
Concen: 0.09 ppbv
RT: 13.04 min Scan# 3717
Delta R.T. 0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.8	35.6





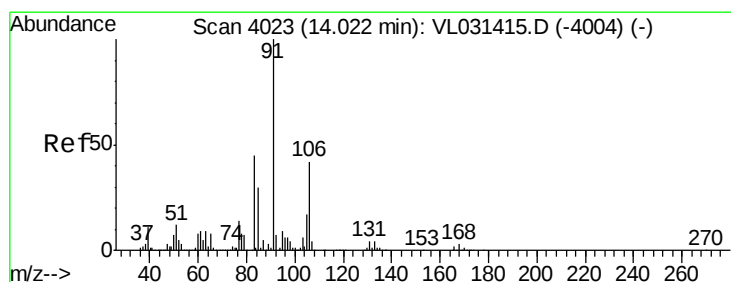
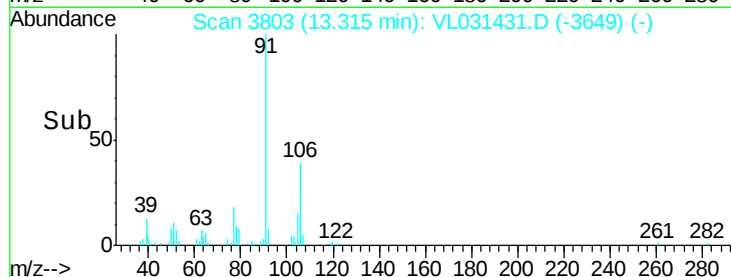
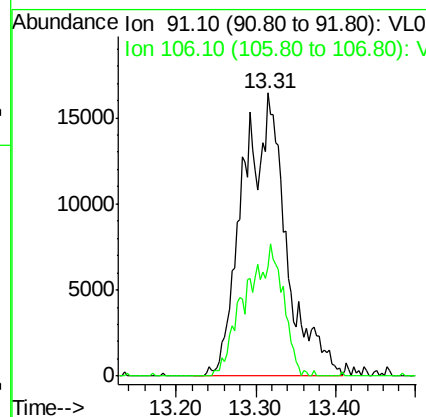
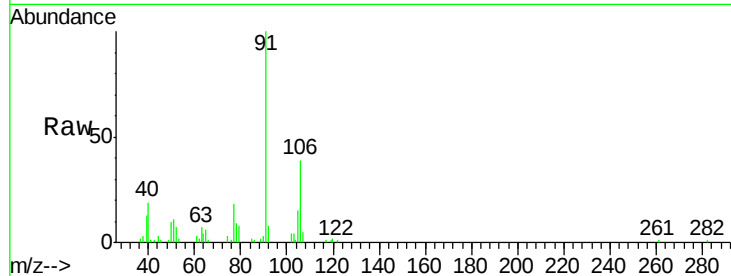
#59
m/p-Xylene
Concen: 0.19 ppbv m
RT: 13.31 min Scan# 3803
Delta R.T. -0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion: 91 Resp: 62179
Ion Ratio Lower Upper
91 100
106 40.6 35.6 53.4

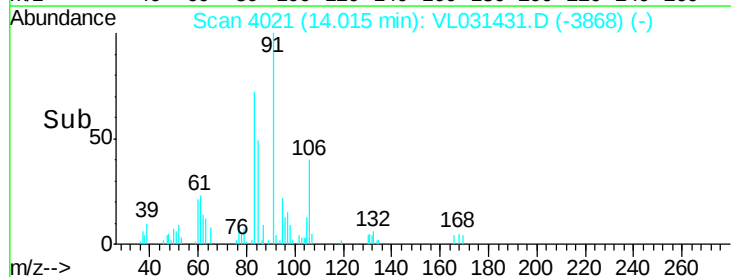
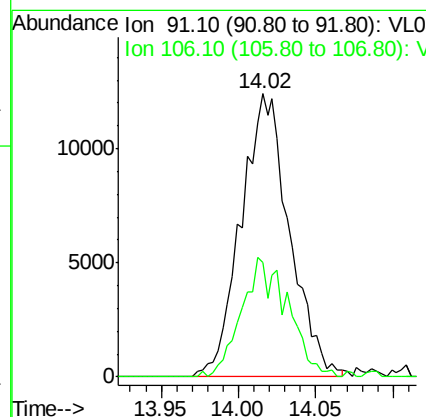
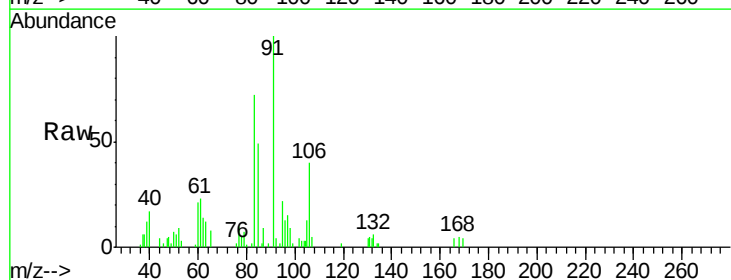
Manual Integrations
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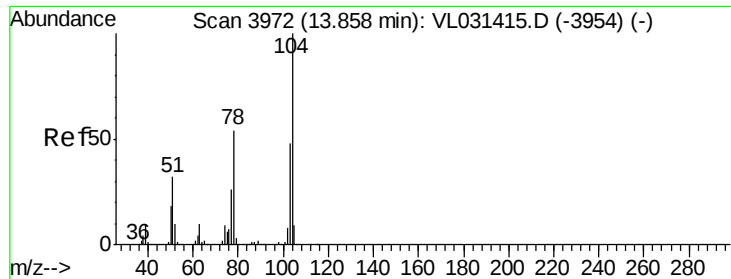
MMDadoda
1/24/2018 5:10:30 PM



#60
o-Xylene
Concen: 0.08 ppbv
RT: 14.02 min Scan# 4021
Delta R.T. -0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion: 91 Resp: 27067
Ion Ratio Lower Upper
91 100
106 40.2 21.3 64.0





#61

Stvrene

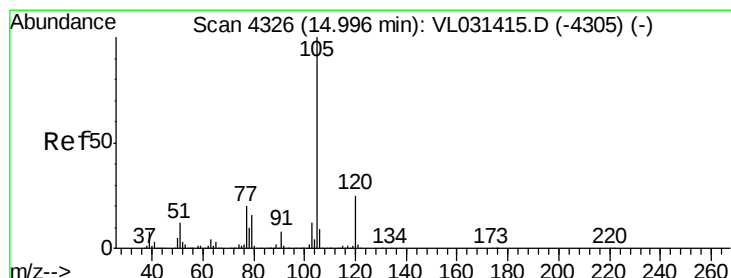
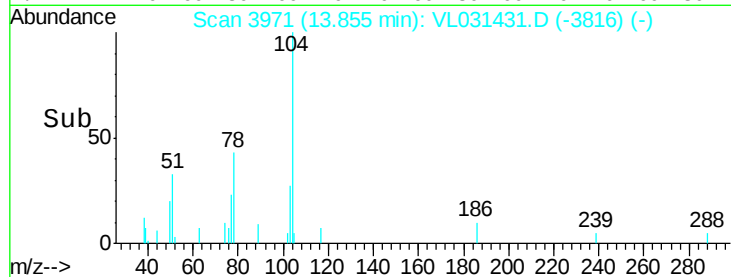
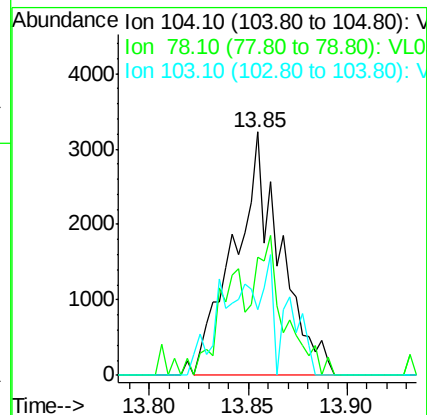
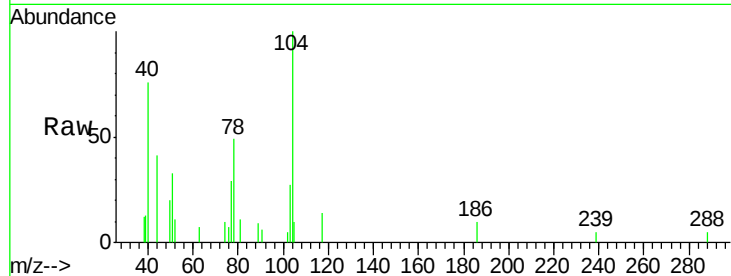
Concen: 0.07 ppbv m
RT: 13.85 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
104	100		
78	64.2	45.4	68.0
103	56.7	38.6	57.8

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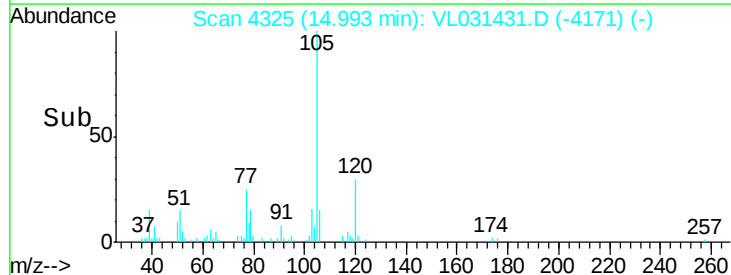
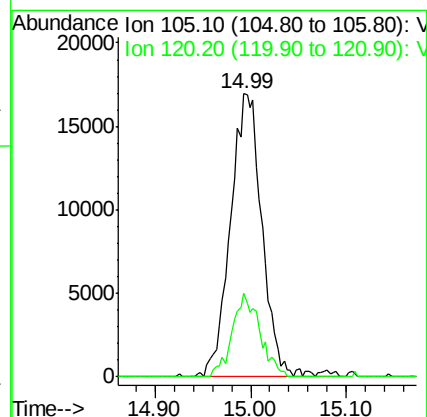
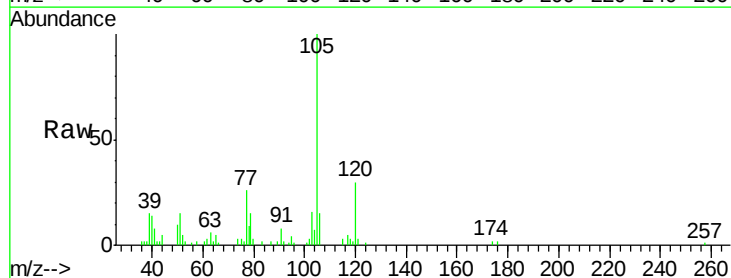


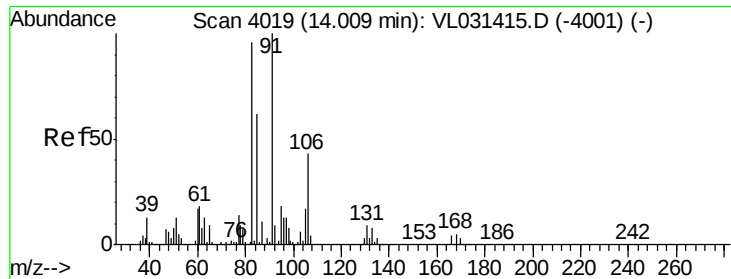
#62

Isopropylbenzene

Concen: 0.09 ppbv m
RT: 14.99 min Scan# 4325
Delta R.T. -0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.13 ppbv m

RT: 14.01 min Scan# 4019

Delta R.T. 0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

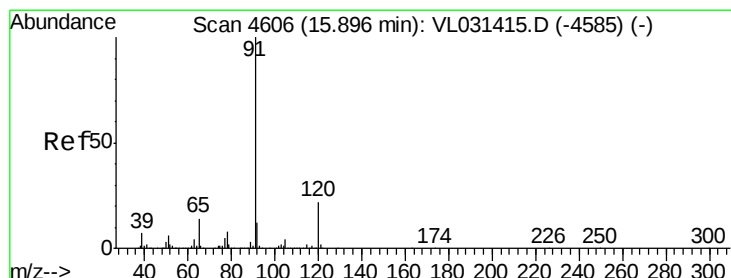
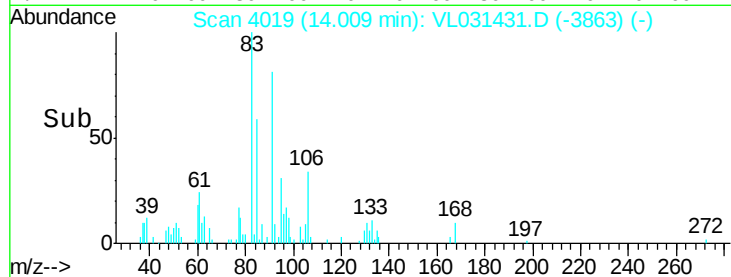
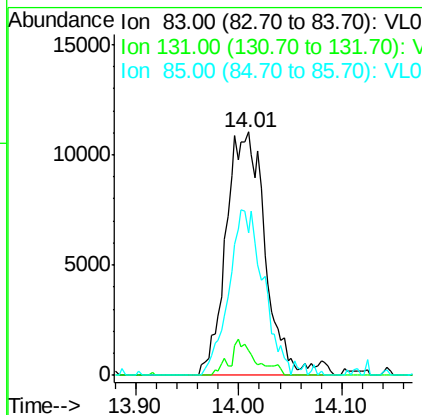
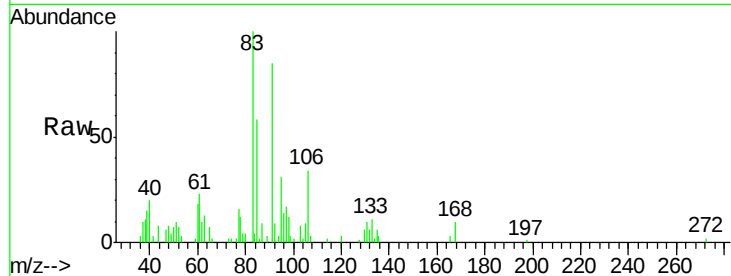
ClientSampled :

MDL-AIR-6

Tot Ion:	83	Resp:	29184
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.8	14.3
85	61.5	32.4	97.0

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#64

n-propylbenzene

Concen: 0.08 ppbv m

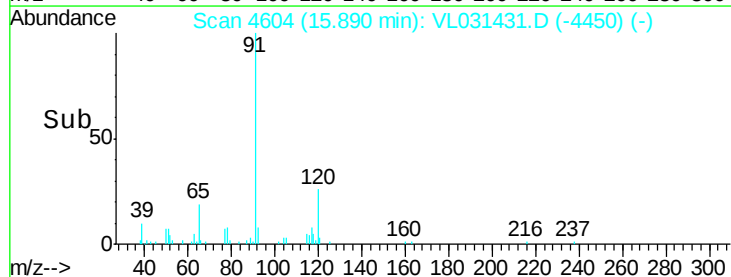
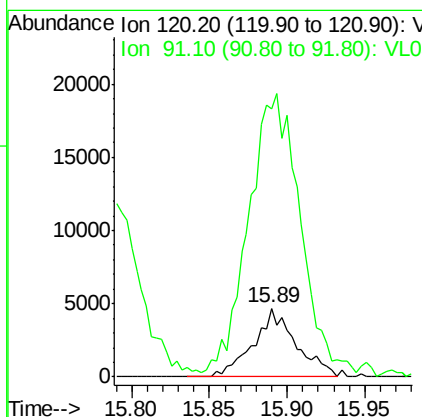
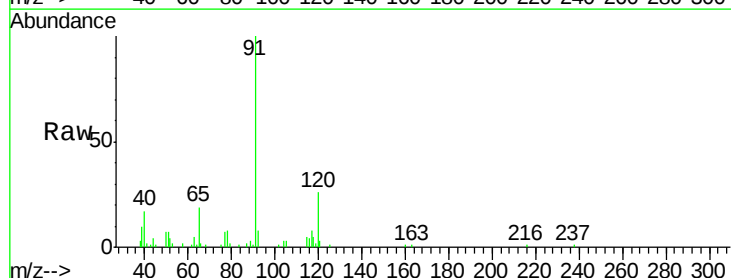
RT: 15.89 min Scan# 4604

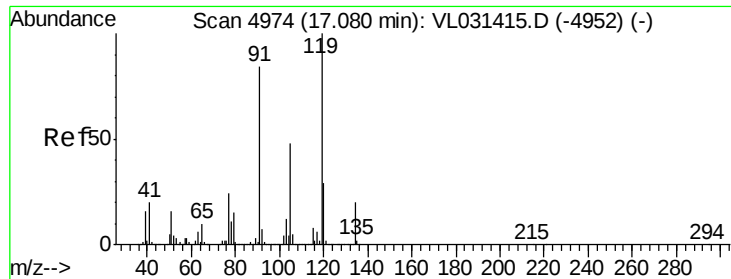
Delta R.T. -0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion:	120	Resp:	8792
Ion Ratio	Lower	Upper	
120	100		
91	528.2	389.8	584.6





#65

tert-Butylbenzene

Concen: 0.08 ppbv m

RT: 17.08 min Scan# 4974

Delta R.T. -0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

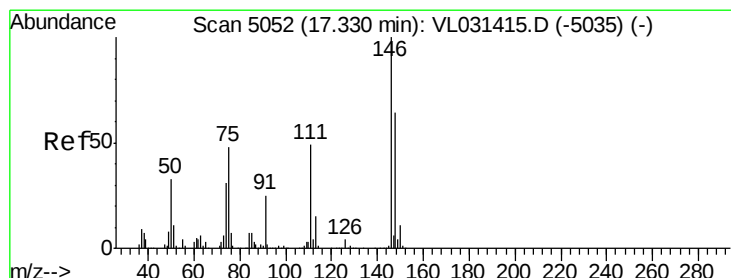
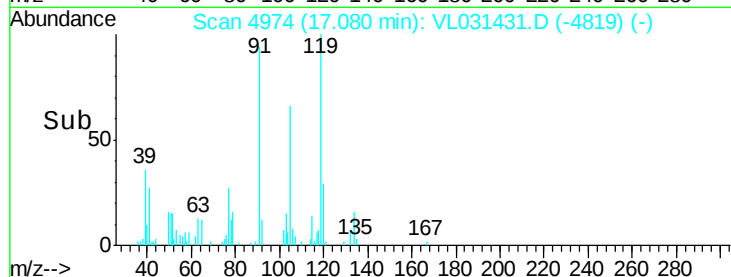
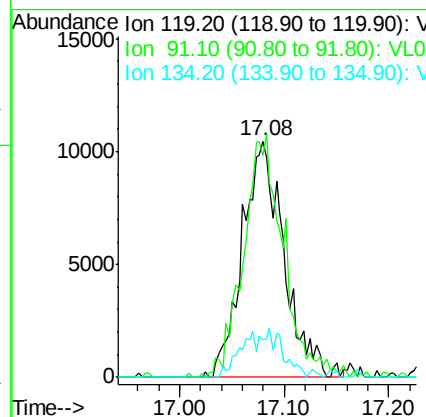
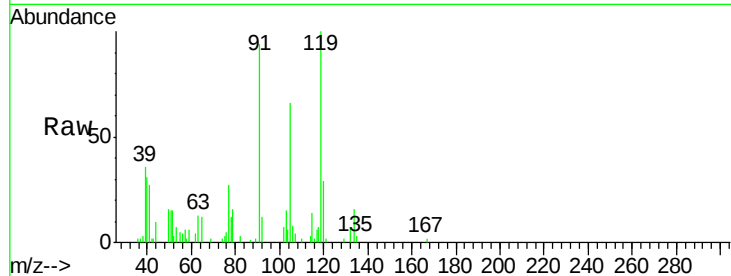
ClientSampleId :

MDL-AIR-6

Tot Ion:	119	Resp:	28901
Ion Ratio	Lower	Upper	
119	100		
91	99.7	69.0	103.6
134	20.5	15.7	23.5

Manual Integrations
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1/24/2018 5:10:30 PM



#66

Benzyl Chloride

Concen: 0.10 ppbv m

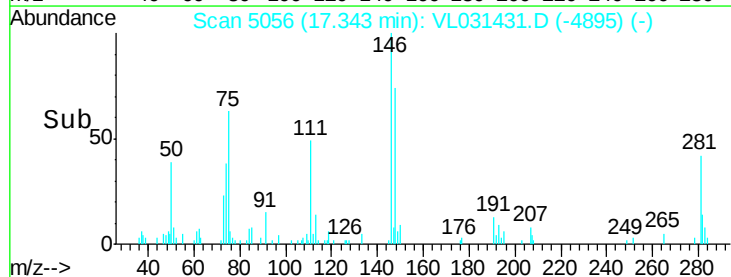
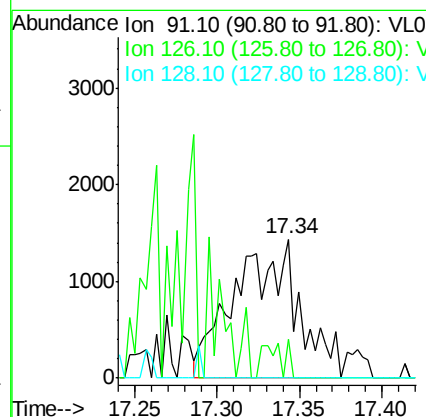
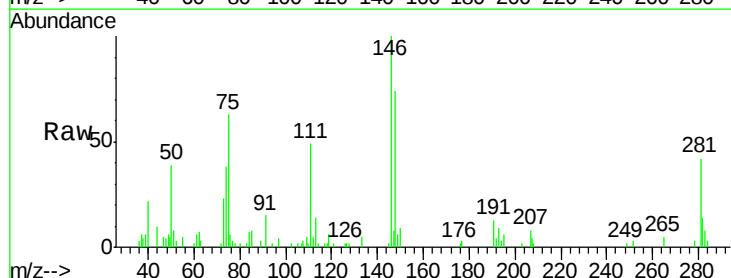
RT: 17.34 min Scan# 5056

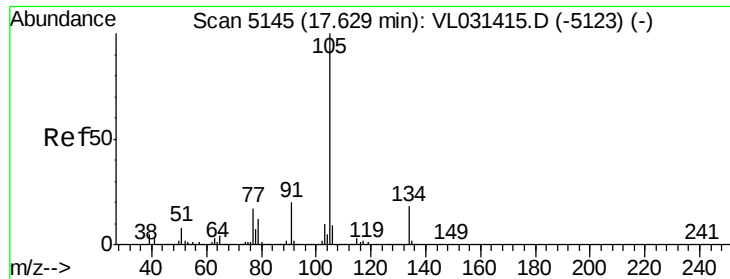
Delta R.T. 0.02 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion:	91	Resp:	3878
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.8	20.8#
128	0.0	4.6	6.8#





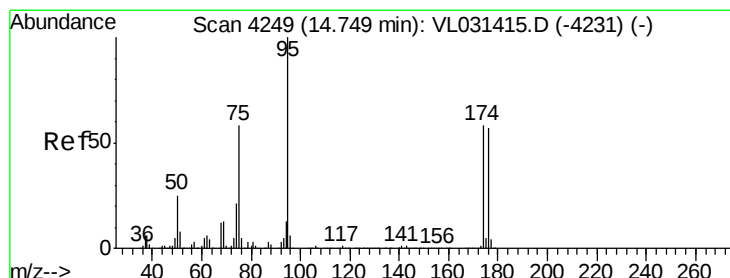
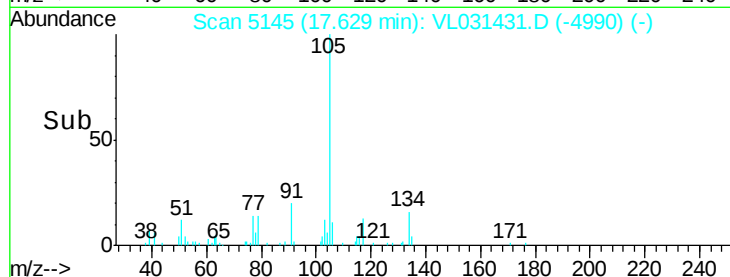
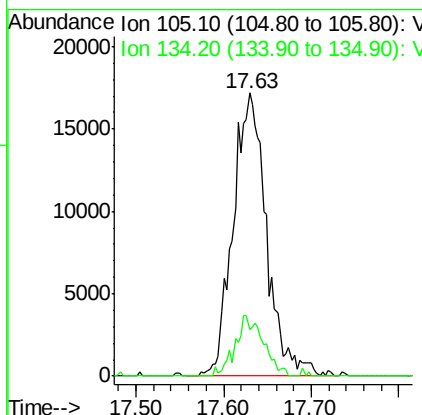
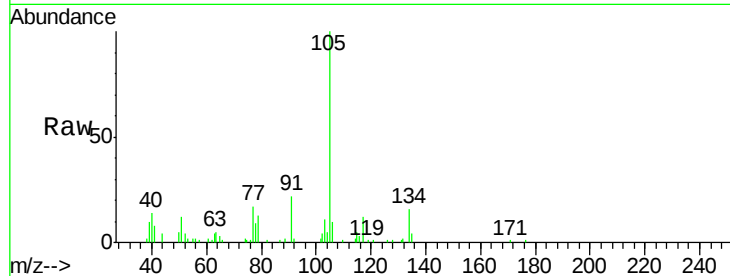
#67
 sec-Butylbenzene
 Concen: 0.09 ppbv m
 RT: 17.63 min Scan# 5145
 Delta R.T. -0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.1	14.5	21.7

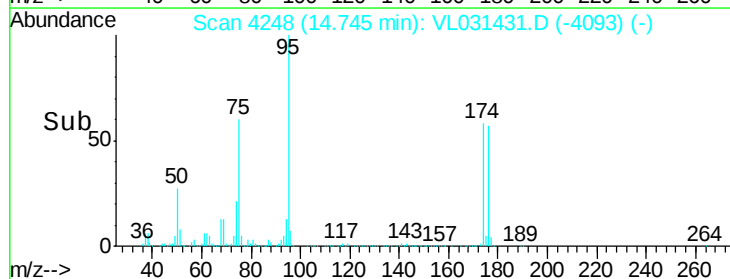
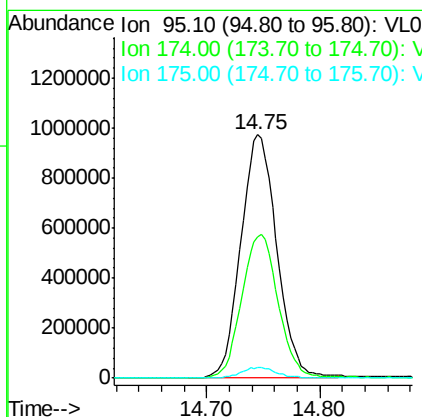
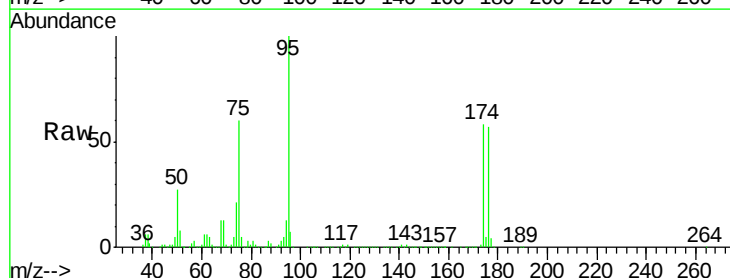
Manual Integrations
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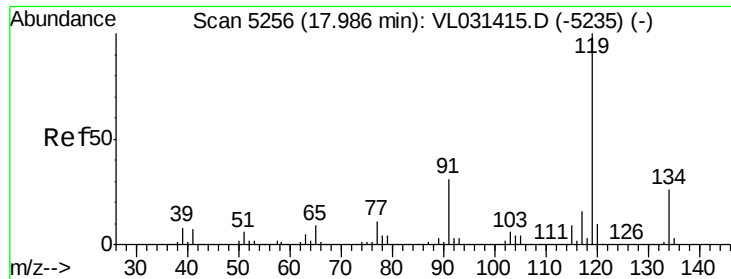
MMDadoda
 1/24/2018 5:10:30 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.11 ppbv
 RT: 14.75 min Scan# 4248
 Delta R.T. -0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	59.9	48.2	72.4
175	4.5	3.6	5.4





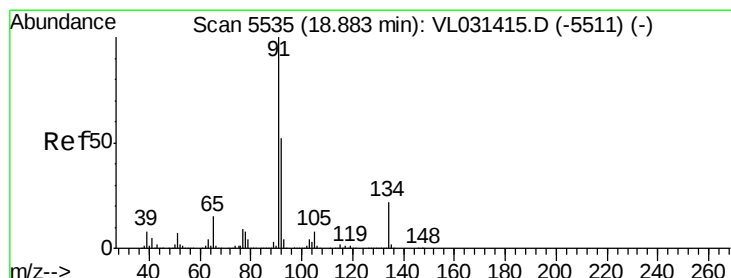
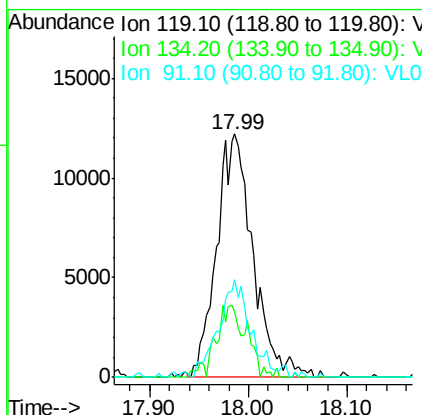
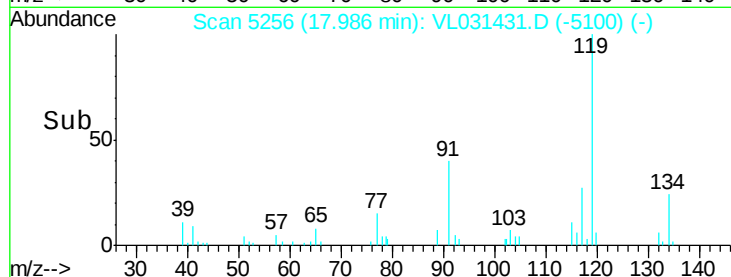
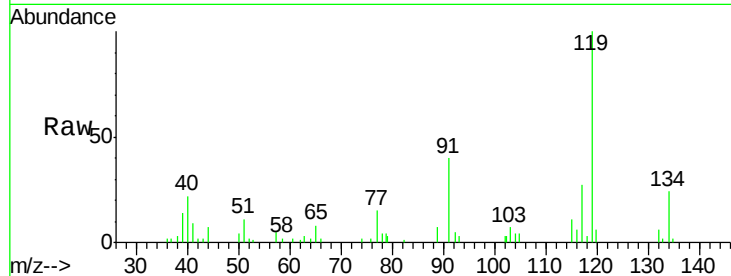
#69
 p-Isopropyltoluene
 Concen: 0.08 ppbv m
 RT: 17.99 min Scan# 5256
 Delta R.T. 0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-6

Tot Ion	Ratio	Resp	Lower	Upper
119	100	31491		
134	0.0	20.2	30.4#	
91	0.0	25.0	37.4#	

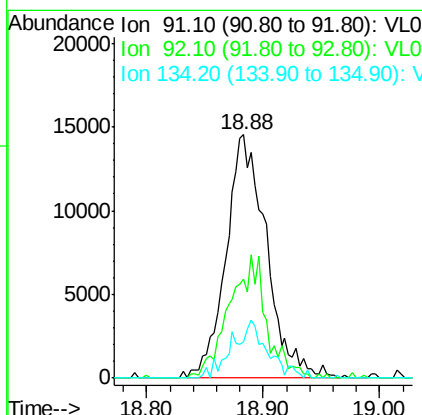
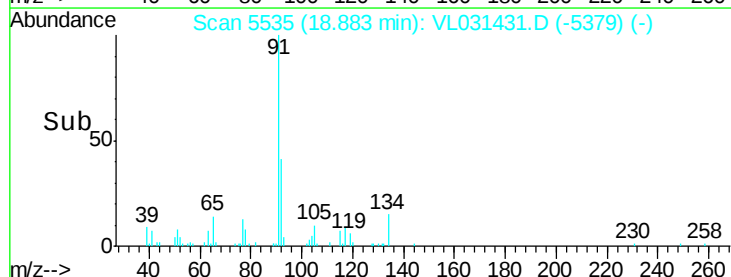
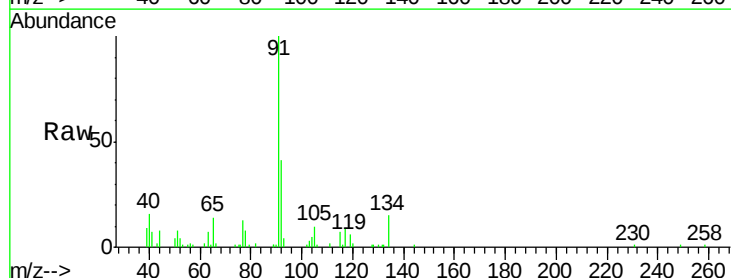
Manual Integrations
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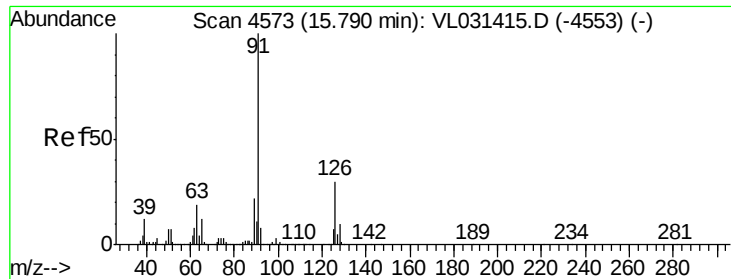
MMDadoda
 1/24/2018 5:10:30 PM



#70
 n-Butylbenzene
 Concen: 0.08 ppbv m
 RT: 18.88 min Scan# 5535
 Delta R.T. 0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	34938		
92	46.7	42.2	63.4	
134	20.8	17.4	26.2	





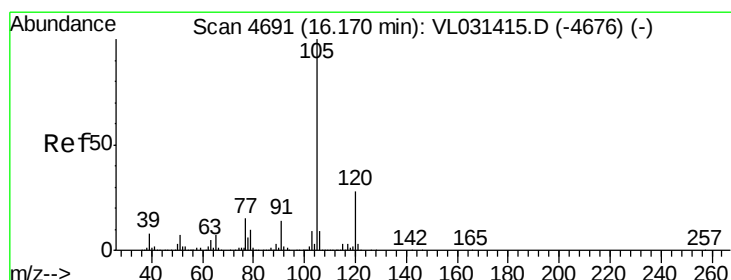
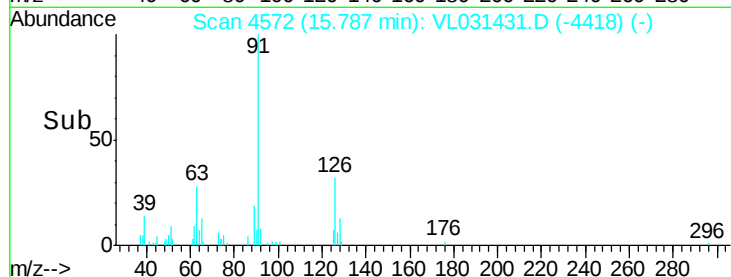
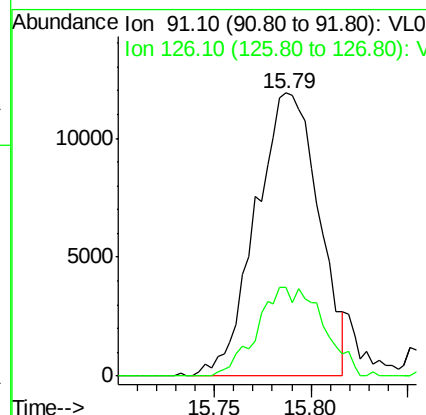
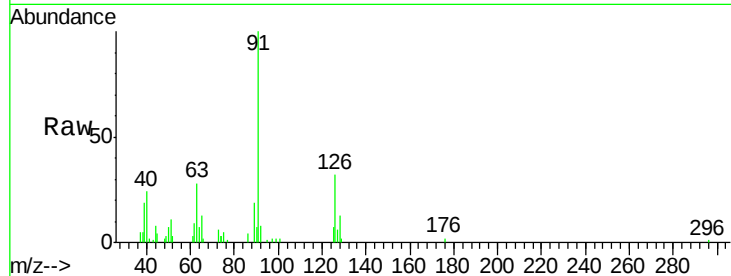
#71
2-Chlorotoluene
Concen: 0.08 ppbv
RT: 15.79 min Scan# 4572
Delta R.T. -0.01 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.0	11.7	46.9

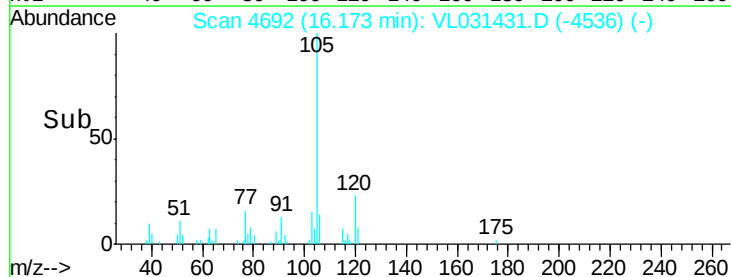
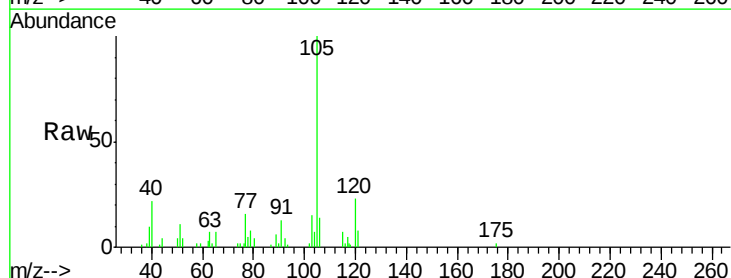
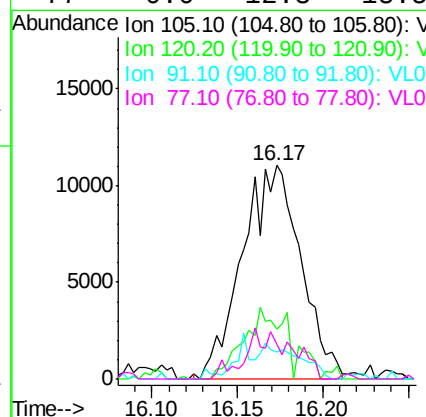
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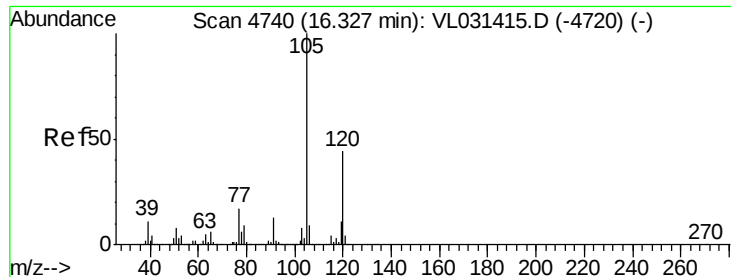
MMDadoda
1/24/2018 5:10:30 PM



#72
4-Ethyltoluene
Concen: 0.08 ppbv m
RT: 16.17 min Scan# 4692
Delta R.T. 0.00 min
Lab File: VL031431.D
Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.4	23.0	34.6
91	0.0	11.0	16.4#
77	0.0	12.3	18.5#





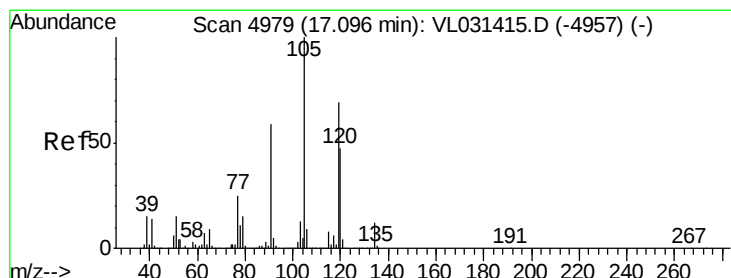
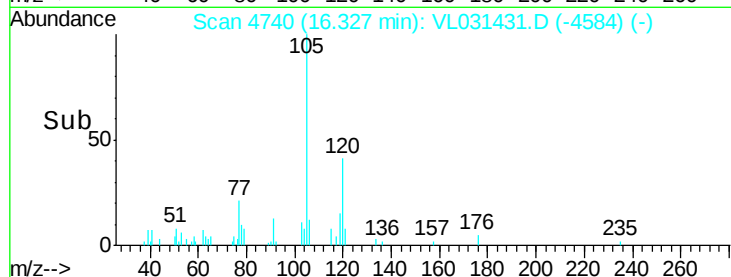
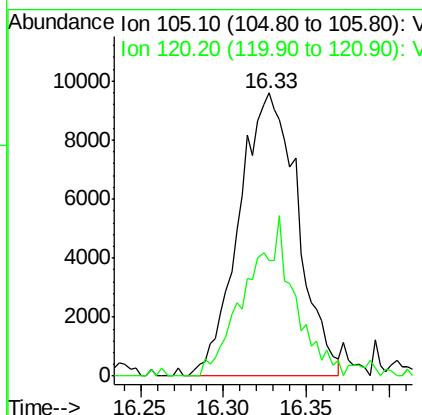
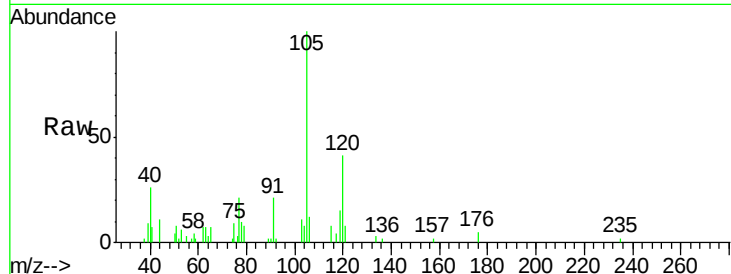
#73
 1,3,5-Trimethylbenzene
 Concen: 0.08 ppbv
 RT: 16.33 min Scan# 4740
 Delta R.T. 0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
105	100		
120	41.0	35.8	53.6

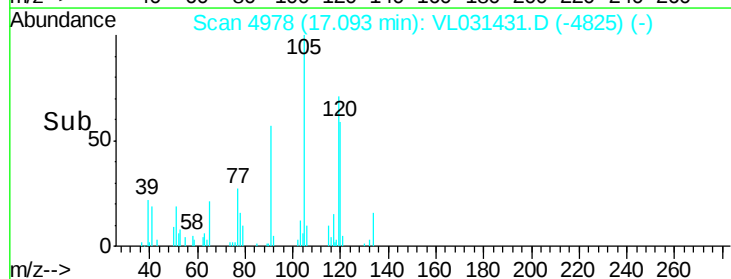
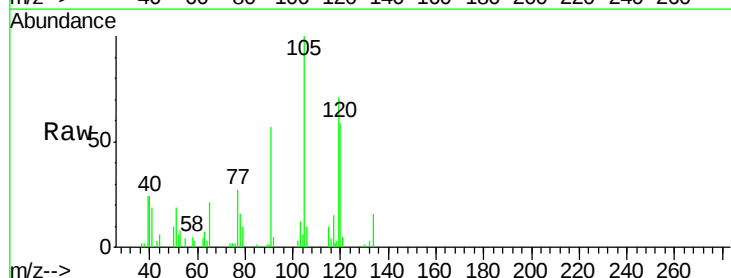
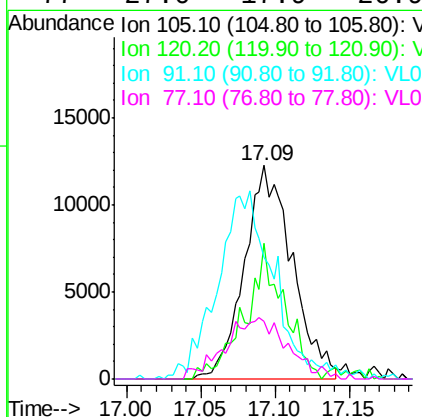
Manual Integrations
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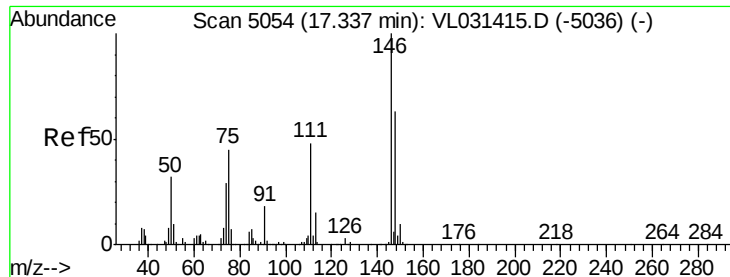
MMDadoda
 1/24/2018 5:10:30 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.08 ppbv m
 RT: 17.09 min Scan# 4978
 Delta R.T. -0.01 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	58.7	37.0	55.6#
91	56.7	35.1	52.7#
77	27.0	17.9	26.9#





#75

1,3-Dichlorobenzene

Concen: 0.13 ppbv m

RT: 17.34 min Scan# 5054

Delta R.T. -0.00 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

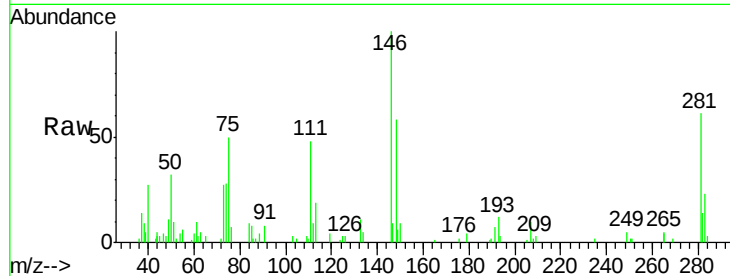
ClientSampleId :

MDL-AIR-6

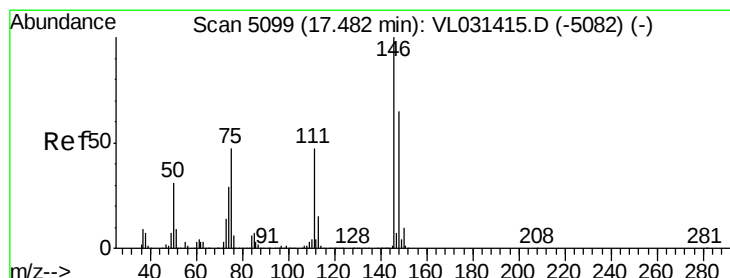
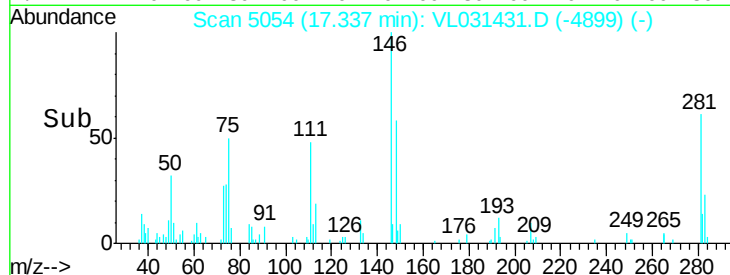
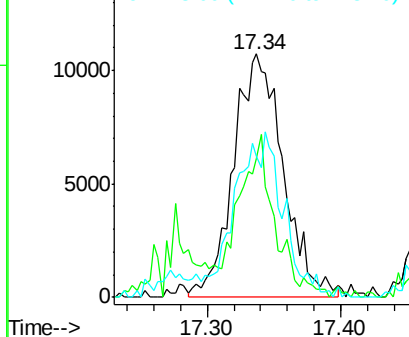
Tot Ion:	146	Resp:	27757
Ion Ratio	Lower	Upper	
146	100		
111	0.0	24.2	72.6#
148	0.0	32.1	96.3#

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



#76

1,4-Dichlorobenzene

Concen: 0.11 ppbv m

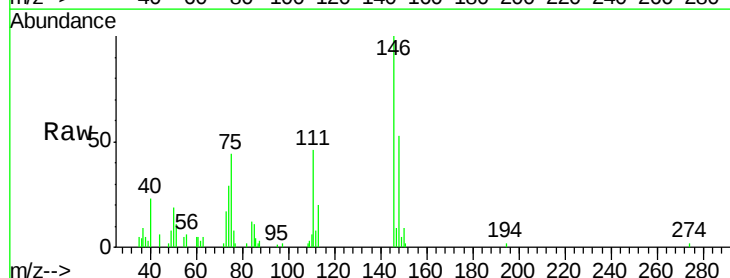
RT: 17.48 min Scan# 5098

Delta R.T. -0.01 min

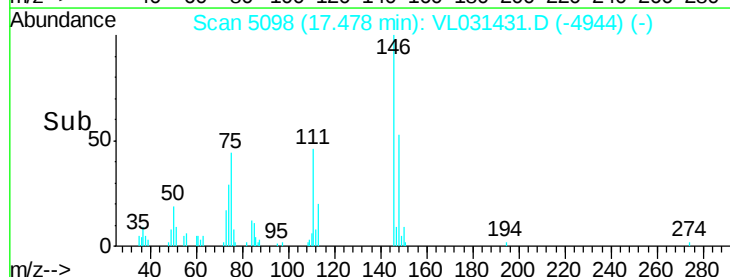
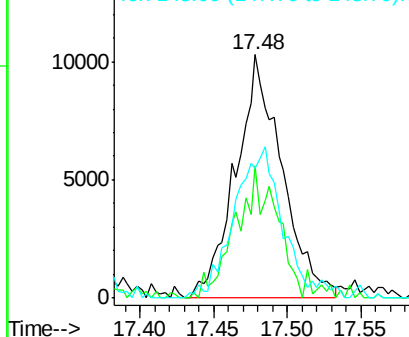
Lab File: VL031431.D

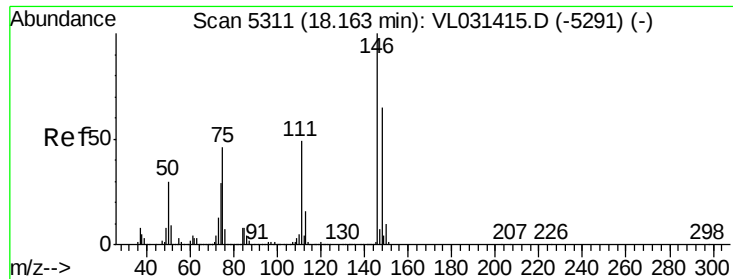
Acq: 23 Jan 2018 00:51

Tgt Ion:	146	Resp:	22473
Ion Ratio	Lower	Upper	
146	100		
111	51.7	23.3	69.9
148	66.7	32.4	97.2



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





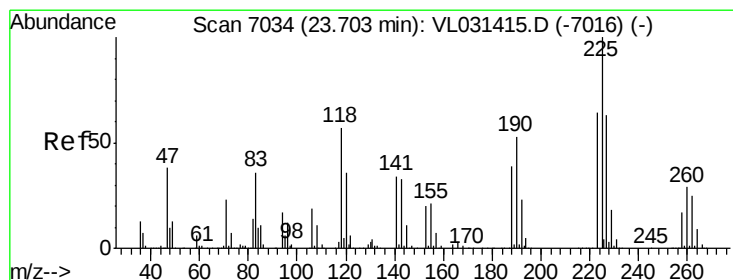
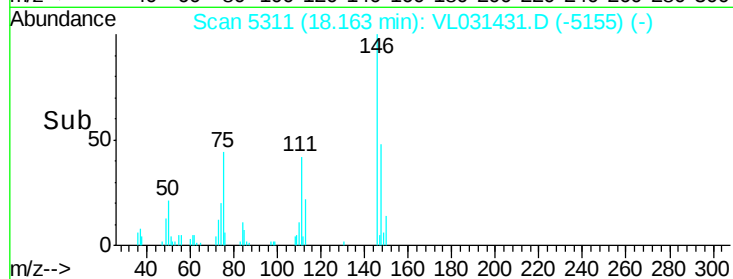
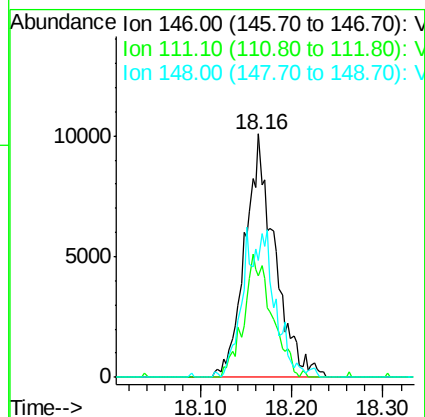
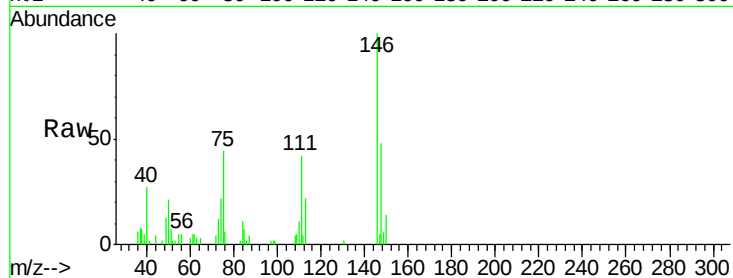
#77
 1,2-Dichlorobenzene
 Concen: 0.11 ppbv m
 RT: 18.16 min Scan# 5311
 Delta R.T. 0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.6	74.0
148	65.5	32.3	96.8

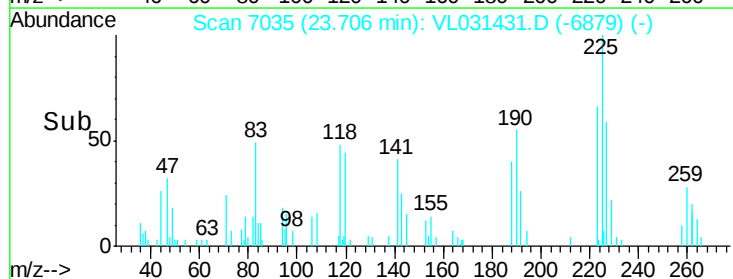
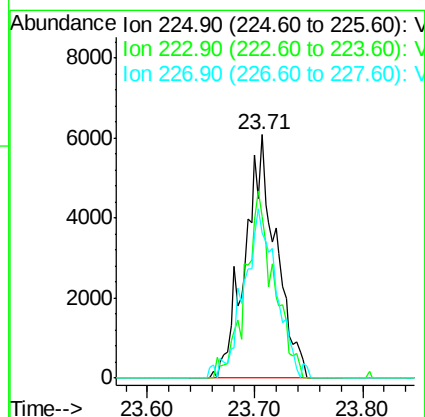
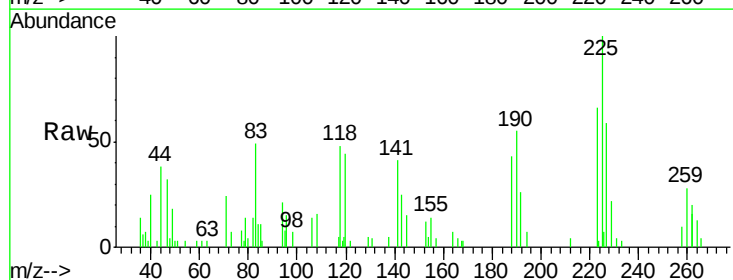
Manual Integrations
 APPROVED

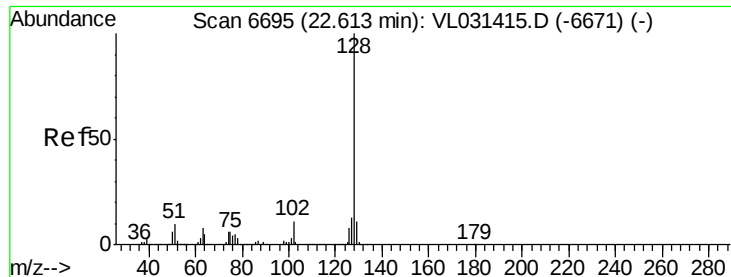
MMDadoda
 1/24/2018 5:10:30 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.17 ppbv m
 RT: 23.71 min Scan# 7035
 Delta R.T. 0.00 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	71.4	51.3	76.9
227	72.9	50.7	76.1





#79

Naphthalene

Concen: 0.07 ppbv m

RT: 22.63 min Scan# 6700

Delta R.T. 0.02 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Instrument :

MSVOA_L

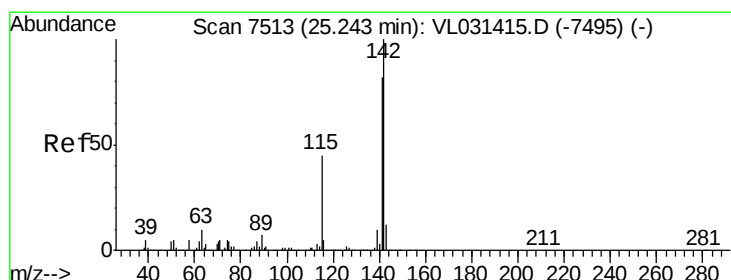
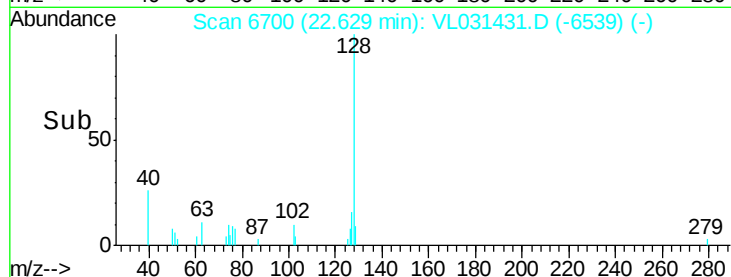
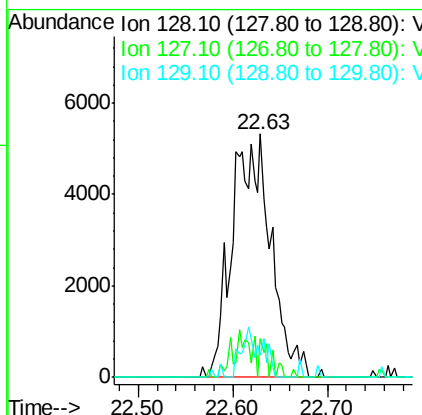
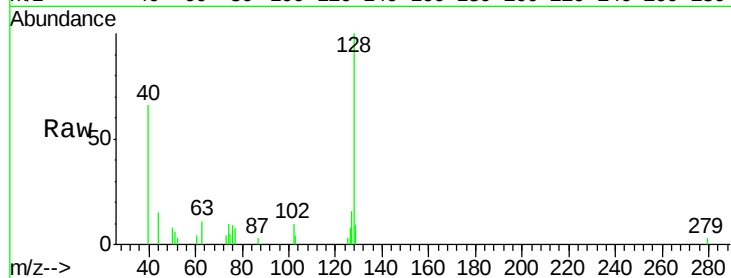
ClientSampled :

MDL-AIR-6

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.0	10.6	16.0#
129	9.1	9.2	13.8#

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:30 PM



#80

Naphthalene, 2-methyl-

Concen: 0.05 ppbv m

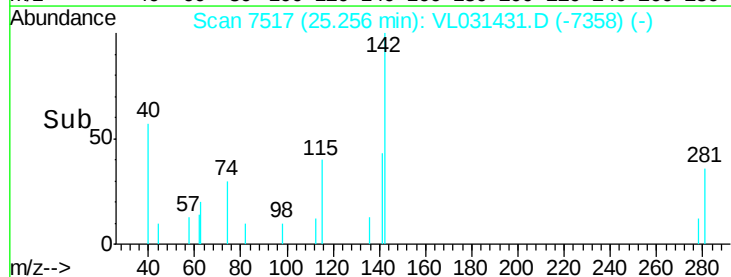
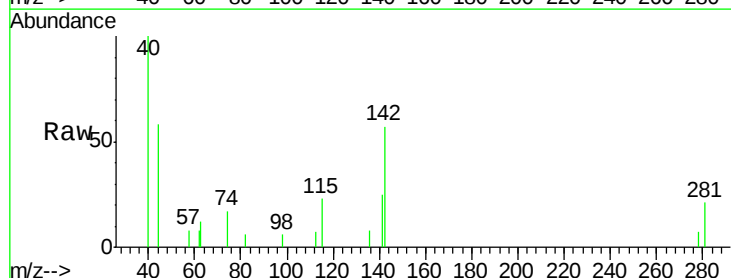
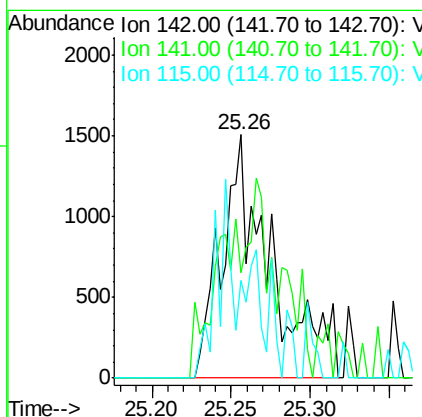
RT: 25.26 min Scan# 7517

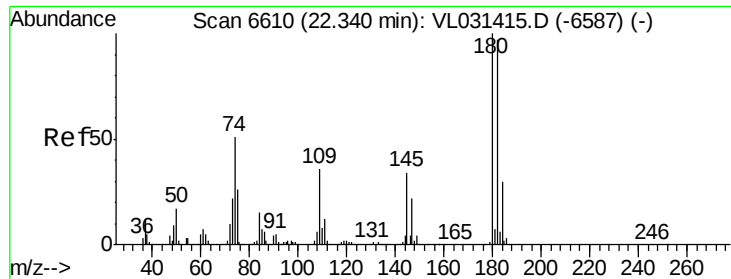
Delta R.T. 0.01 min

Lab File: VL031431.D

Acq: 23 Jan 2018 00:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	7.1	68.7	103.1#
115	3.4	36.3	54.5#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.10 ppbv m
 RT: 22.35 min Scan# 6613
 Delta R.T. 0.01 min
 Lab File: VL031431.D
 Acq: 23 Jan 2018 00:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-6

Tot Ion:	180	Resp:	10828
Ion Ratio	Lower	Upper	
180	100		
182	0.0	76.2	114.4#
184	0.0	24.2	36.4#

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:30 PM

