

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031432.D
 Acq On : 23 Jan 2018 1:28
 Operator : SY/AP
 Sample : J1089-14
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:32 PM

Quant Time: Jan 23 07:11:22 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 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	1183548	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2657539	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2620556	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2178676	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	36084	0.22	ppbv	98
3) Chlorodifluoromethane	3.12	51	20541	0.13	ppbv	97
4) Chloromethane	3.27	50	8855m	0.13	ppbv	
5) Vinyl Chloride	3.40	62	9368m	0.14	ppbv	
6) Bromomethane	3.63	94	6131m	0.12	ppbv	
7) Chloroethane	3.71	64	3996m	0.14	ppbv	
8) Dichlorotetrafluoroethane	3.32	85	25153	0.13	ppbv	96
9) Propene	3.14	41	6489	0.12	ppbv	98
10) Heptane	8.41	43	14213	0.08	ppbv #	77
11) Trichlorofluoromethane	4.13	101	31800	0.14	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.68	101	19435	0.14	ppbv	100
13) Ethanol	3.78	45	3530	0.21	ppbv	87
14) Bromoethene	3.91	108	7717	0.14	ppbv #	96
15) Acetone	4.04	43	29345	0.19	ppbv	98
16) 1,3-Butadiene	3.47	39	7037m	0.11	ppbv	
17) tert-Butyl alcohol	4.52	59	9490m	0.12	ppbv	
18) 1,1-Dichloroethene	4.48	96	8463	0.14	ppbv	89
19) Isopropyl Alcohol	4.18	45	12210	0.12	ppbv #	97
20) Methylene Chloride	4.53	84	15967	0.26	ppbv #	78
21) Allyl Chloride	4.61	41	12282m	0.13	ppbv	
22) trans-1,2-Dichloroethene	5.10	96	8618m	0.13	ppbv	
23) Vinyl Acetate	5.31	43	21586m	0.11	ppbv	
24) 1,1-Dichloroethane	5.23	63	21606	0.13	ppbv	98
25) Ethyl Acetate	5.93	43	33159	0.12	ppbv #	97
26) Hexane	5.93	57	14800	0.12	ppbv	89
27) Carbon Disulfide	4.76	76	20282	0.12	ppbv #	86
28) Methyl tert-Butyl Ether	5.28	73	15679m	0.11	ppbv	
29) Chloroform	5.99	83	26957	0.13	ppbv	84
30) Cyclohexane	7.43	84	17339m	0.18	ppbv	
31) cis-1,2-Dichloroethene	5.78	61	12899m	0.11	ppbv	
32) 1,1,1-Trichloroethane	6.77	97	25602m	0.12	ppbv	
34) 2-Butanone	5.49	43	22503m	0.13	ppbv	
35) Carbon Tetrachloride	7.29	117	27551m	0.13	ppbv	
36) Benzene	7.16	78	24563	0.10	ppbv #	91
37) 1,2-Dichloroethane	6.56	62	23307	0.13	ppbv	98
38) Trichloroethene	8.12	130	12624m	0.14	ppbv	
39) 1,2-Dichloropropane	7.89	63	11293m	0.13	ppbv	
40) 1,4-Dioxane	8.18	88	3643m	0.10	ppbv	
41) Tetrahydrofuran	6.34	42	9069m	0.10	ppbv	
42) Bromodichloromethane	8.07	83	25718	0.12	ppbv	97
43) Methyl Methacrylate	8.31	69	6971m	0.08	ppbv	

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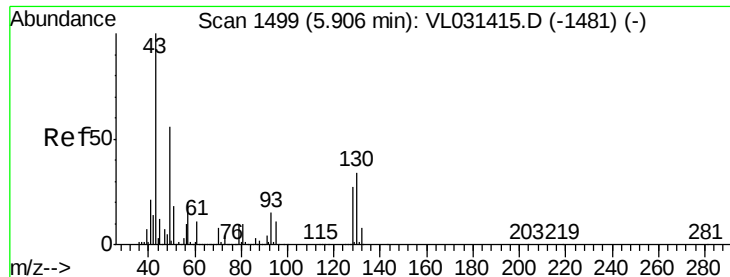
Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:32 PM

Quant Time: Jan 23 07:11:22 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	36072m	0.09	ppbv	
45) t-1,3-Dichloropropene	9.58	75	9715m	0.08	ppbv	
46) cis-1,3-Dichloropropene	8.99	75	12835m	0.08	ppbv	
47) 1,1,2-Trichloroethane	9.77	97	12768m	0.12	ppbv	
48) Dibromochloromethane	10.62	129	21159	0.11	ppbv	92
49) Bromoform	13.37	173	15381m	0.11	ppbv	
50) 4-Methyl-2-Pentanone	9.08	43	17831m	0.08	ppbv	
51) 2-Hexanone	10.47	43	16268m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10485m	0.12	ppbv	
53) Toluene	10.11	91	23653m	0.08	ppbv	
54) 1,2-Dibromoethane	10.93	107	16886	0.10	ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.44	131	16949m	0.14	ppbv	
57) Chlorobenzene	12.47	112	30197m	0.13	ppbv	
58) Ethyl Benzene	13.03	91	33008m	0.09	ppbv	
59) m/p-Xylene	13.31	91	63662m	0.19	ppbv	
60) o-Xylene	14.02	91	26952	0.08	ppbv	97
61) Styrene	13.85	104	5303m	0.07	ppbv	
62) Isopropylbenzene	14.99	105	40856m	0.10	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.01	83	26739m	0.12	ppbv	
64) n-propylbenzene	15.90	120	8579m	0.08	ppbv	
65) tert-Butylbenzene	17.08	119	28165m	0.08	ppbv	
66) Benzyl Chloride	17.32	91	3225m	0.09	ppbv	
67) sec-Butylbenzene	17.62	105	44895m	0.09	ppbv	
69) p-Isopropyltoluene	17.98	119	31926m	0.08	ppbv	
70) n-Butylbenzene	18.89	91	34617m	0.08	ppbv	
71) 2-Chlorotoluene	15.78	91	29942m	0.10	ppbv	
72) 4-Ethyltoluene	16.16	105	26131m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.32	105	26172m	0.09	ppbv	
74) 1,2,4-Trimethylbenzene	17.09	105	28523m	0.09	ppbv	
75) 1,3-Dichlorobenzene	17.34	146	28130m	0.14	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	23248m	0.11	ppbv	
77) 1,2-Dichlorobenzene	18.17	146	22507m	0.11	ppbv	
78) Hexachloro-1,3-Butadiene	23.70	225	11864	0.17	ppbv	94
79) Naphthalene	22.62	128	13802m	0.07	ppbv	
80) Naphthalene, 2-methyl-	25.26	142	3078	0.05	ppbv	95
81) 1,2,4-Trichlorobenzene	22.35	180	10874m	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: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-7

Tot Ion: 49 Resp: 1183548

Ion Ratio Lower Upper

49 100

128 45.6 23.5 70.6

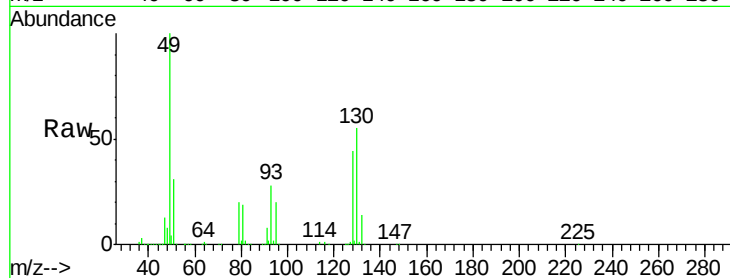
130 58.1 29.9 89.7

Manual Integrations

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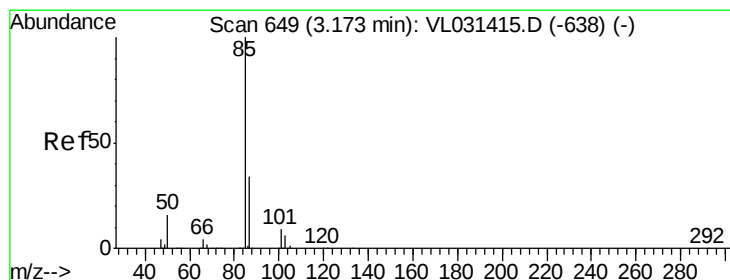
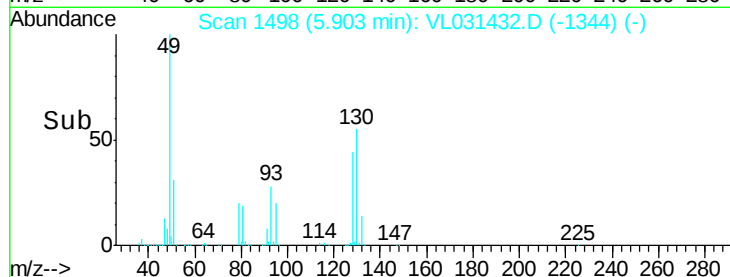
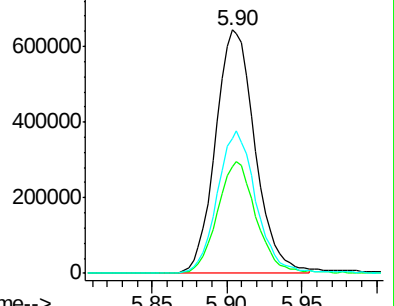
1/24/2018 5:10:32 PM



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: VL031432.D

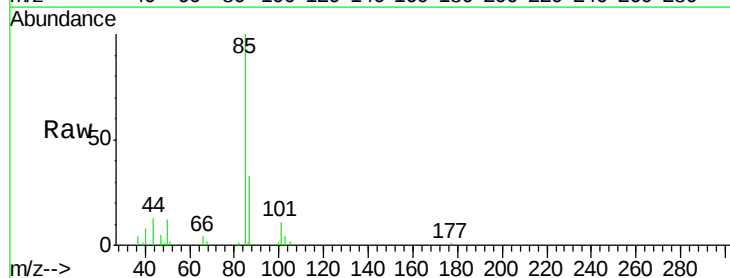
Acq: 23 Jan 2018 1:28

Tgt Ion: 85 Resp: 36084

Ion Ratio Lower Upper

85 100

87 33.0 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

Ion 91.00 (90.70 to 91.70): VL0

Ion 93.00 (92.70 to 93.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 101.00 (100.70 to 101.70): VL0

Ion 103.00 (102.70 to 103.70): VL0

Ion 105.00 (104.70 to 105.70): VL0

Ion 107.00 (106.70 to 107.70): VL0

Ion 109.00 (108.70 to 109.70): VL0

Ion 111.00 (110.70 to 111.70): VL0

Ion 113.00 (112.70 to 113.70): VL0

Ion 115.00 (114.70 to 115.70): VL0

Ion 117.00 (116.70 to 117.70): VL0

Ion 119.00 (118.70 to 119.70): VL0

Ion 121.00 (120.70 to 121.70): VL0

Ion 123.00 (122.70 to 123.70): VL0

Ion 125.00 (124.70 to 125.70): VL0

Ion 127.00 (126.70 to 127.70): VL0

Ion 129.00 (128.70 to 129.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 133.00 (132.70 to 133.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

Ion 137.00 (136.70 to 137.70): VL0

Ion 139.00 (138.70 to 139.70): VL0

Ion 141.00 (140.70 to 141.70): VL0

Ion 143.00 (142.70 to 143.70): VL0

Ion 145.00 (144.70 to 145.70): VL0

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Ion 155.00 (154.70 to 155.70): VL0

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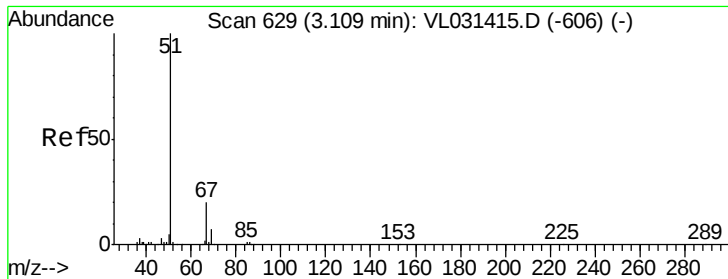
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Ion 393.00 (392.70 to 393.70): VL0

Ion 395.00 (394.70 to 395.70): VL0

Ion 397.00 (396.70 to 397.70): VL0

Ion 399.00 (398.70 to 399.70): VL0



#3

Chlorodifluoromethane

Concen: 0.13 ppbv

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-7

Tot Ion: 51 Resp: 20541

Ion Ratio Lower Upper

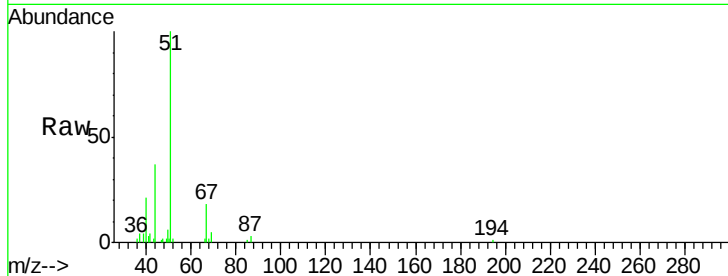
51 100

67 21.5 16.0 24.0

Manual Integrations
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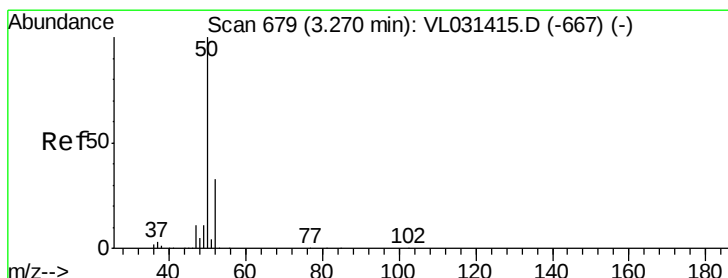
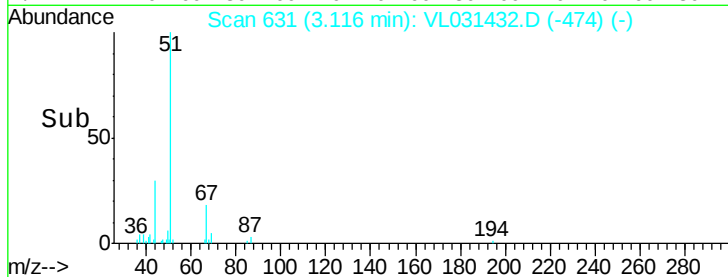
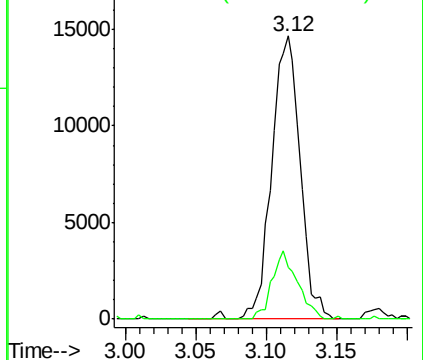
MMDadoda

1/24/2018 5:10:32 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.13 ppbv m

RT: 3.27 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL031432.D

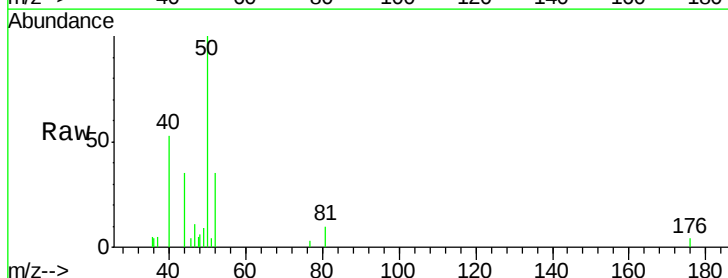
Acq: 23 Jan 2018 1:28

Tgt Ion: 50 Resp: 8855

Ion Ratio Lower Upper

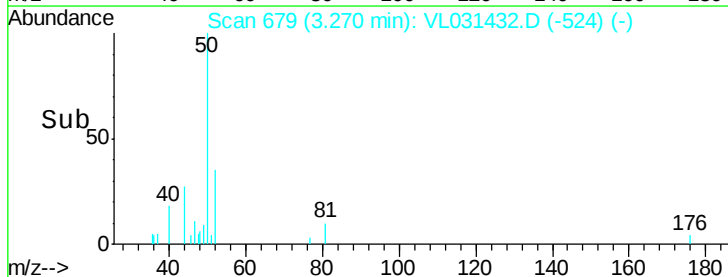
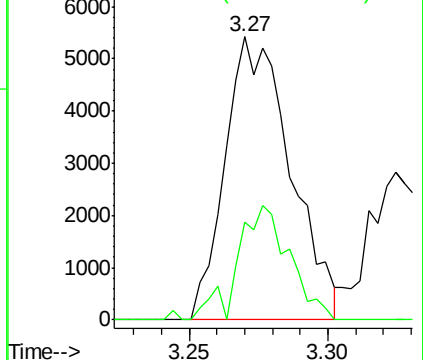
50 100

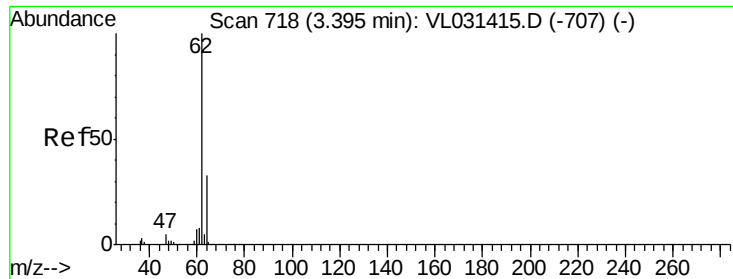
52 34.6 26.4 39.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.14 ppbv m

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-7

Tot Ion: 62 Resp: 9368

Ion Ratio Lower Upper

62 100

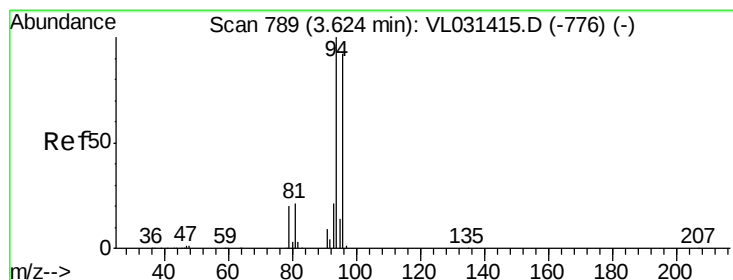
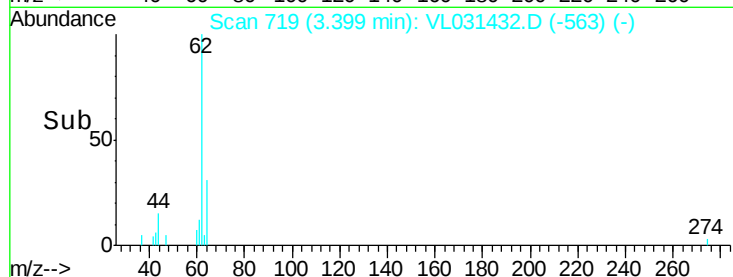
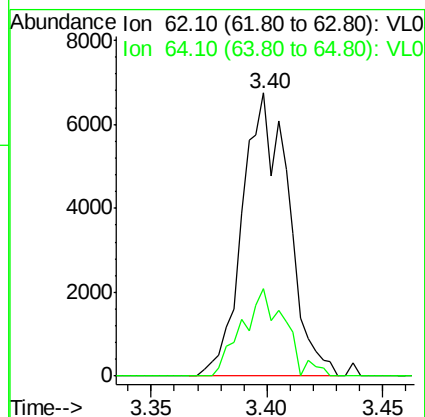
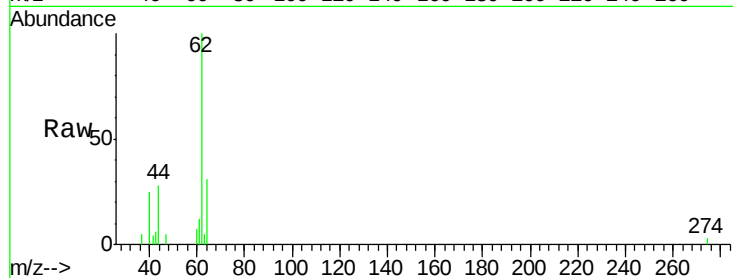
64 30.9 25.4 38.0

Manual Integrations

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1/24/2018 5:10:32 PM



#6

Bromomethane

Concen: 0.12 ppbv m

RT: 3.63 min Scan# 792

Delta R.T. 0.01 min

Lab File: VL031432.D

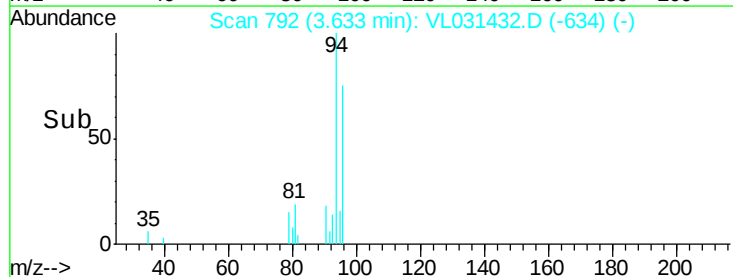
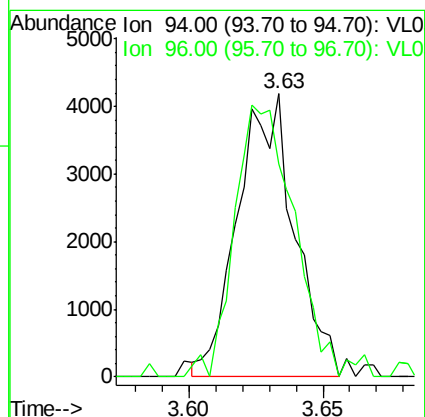
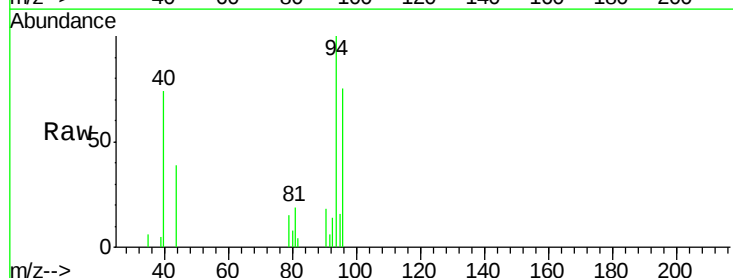
Acq: 23 Jan 2018 1:28

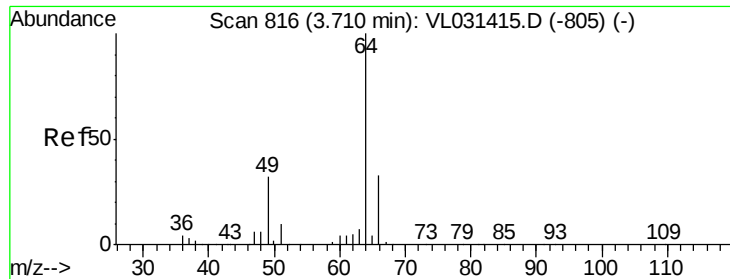
Tgt Ion: 94 Resp: 6131

Ion Ratio Lower Upper

94 100

96 75.3 75.1 112.7





#7

Chloroethane

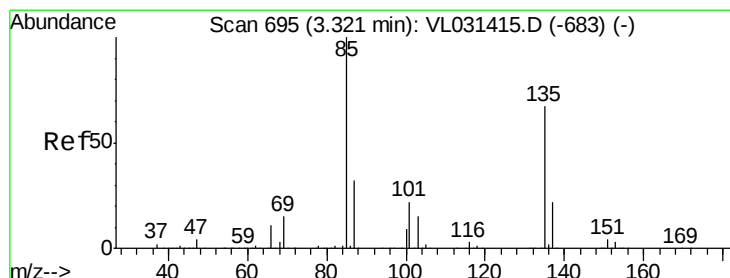
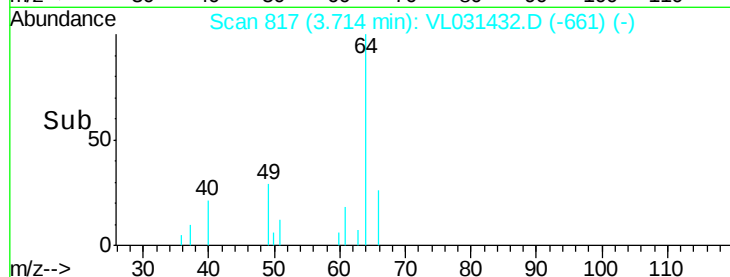
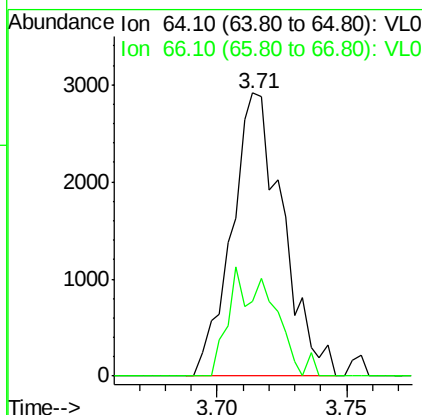
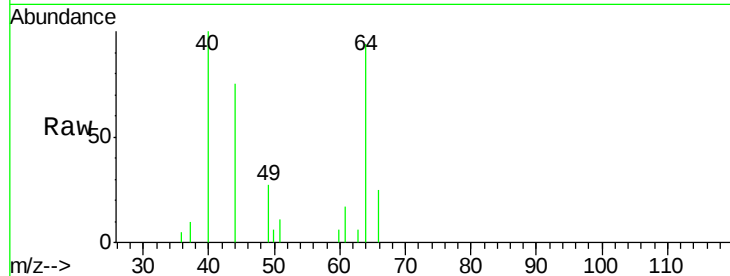
Concen: 0.14 ppbv m
RT: 3.71 min Scan# 817
Delta R.T. 0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
64	100		
66	26.2	26.3	39.5#

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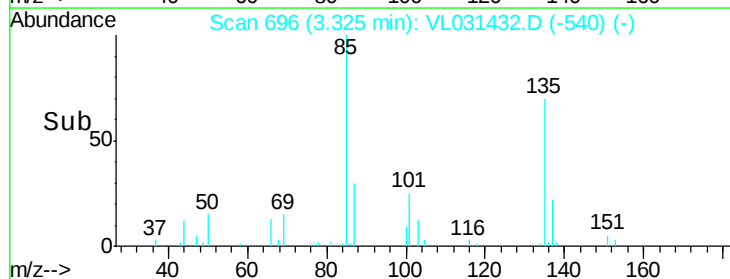
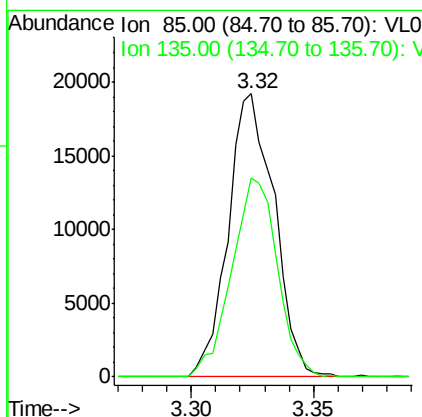
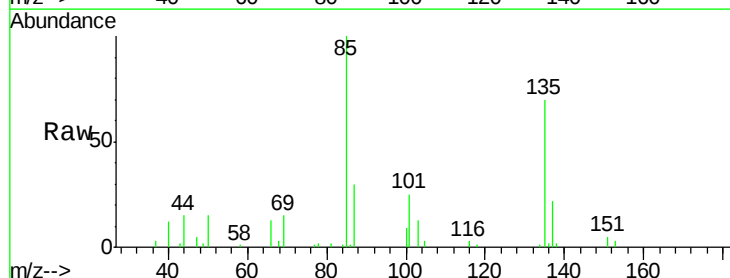


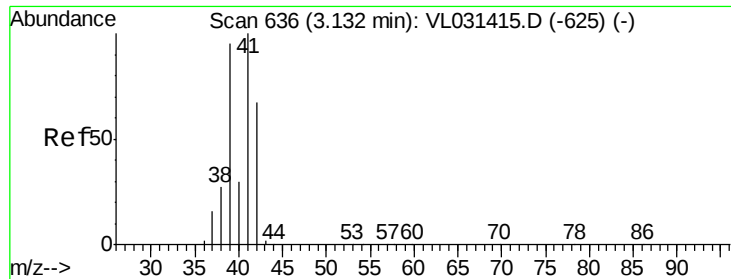
#8

Dichlorotetrafluoroethane

Concen: 0.13 ppbv
RT: 3.32 min Scan# 696
Delta R.T. 0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
85	100		
135	69.5	53.3	79.9





#9

Propene

Concen: 0.12 ppbv

RT: 3.14 min Scan# 639

Delta R.T. 0.00 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-7

Tot Ion: 41 Resp: 6489

Ion Ratio Lower Upper

41 100

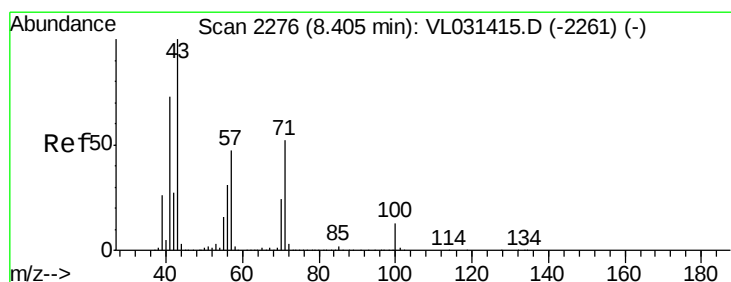
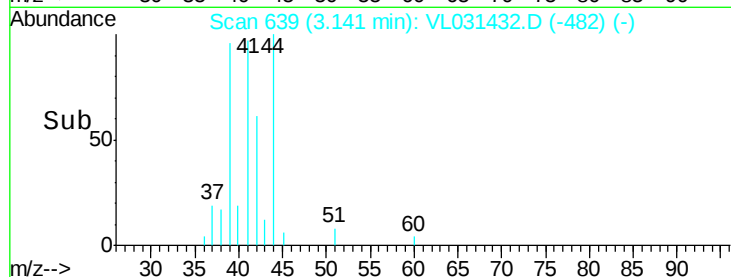
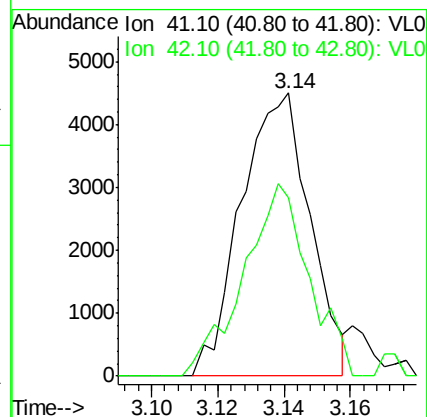
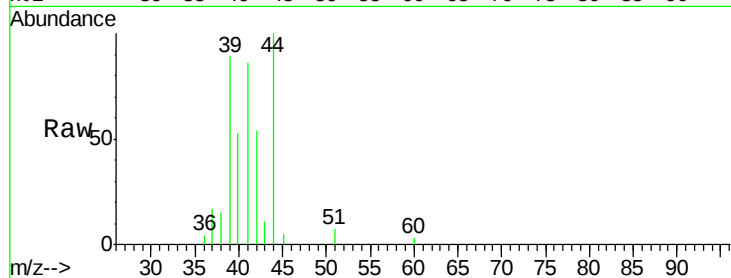
42 66.9 54.6 82.0

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1/24/2018 5:10:32 PM



#10

Heptane

Concen: 0.08 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL031432.D

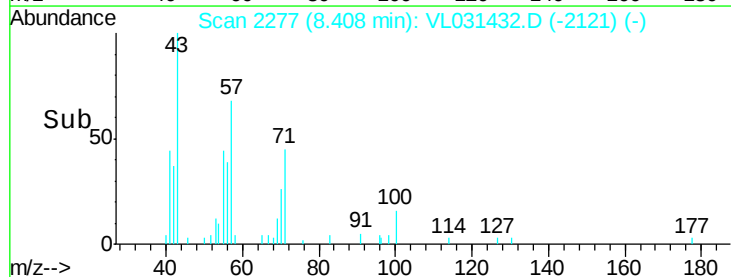
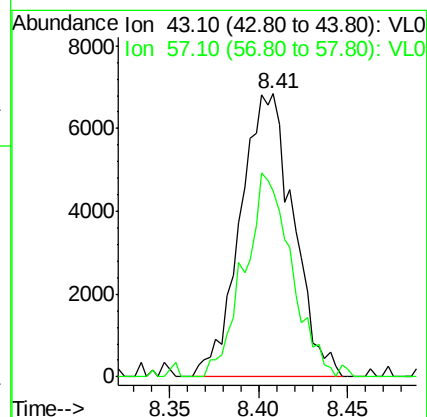
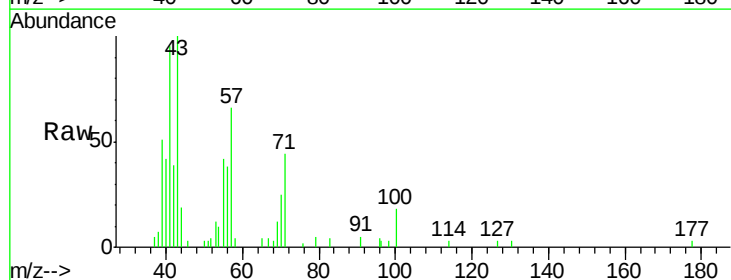
Acq: 23 Jan 2018 1:28

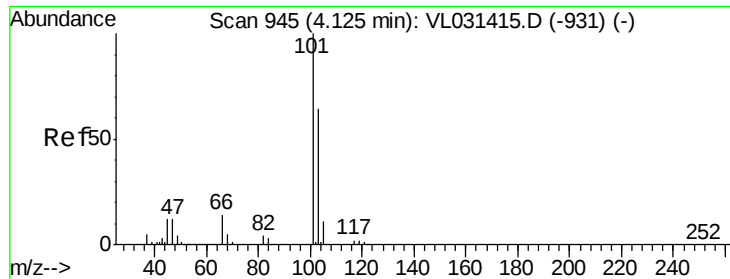
Tgt Ion: 43 Resp: 14213

Ion Ratio Lower Upper

43 100

57 65.4 39.7 59.5#





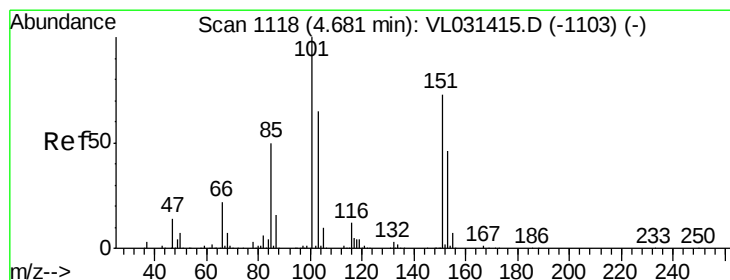
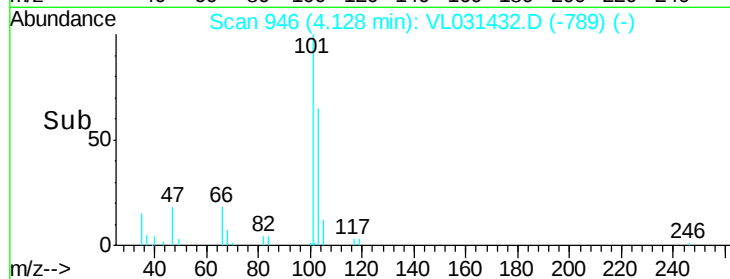
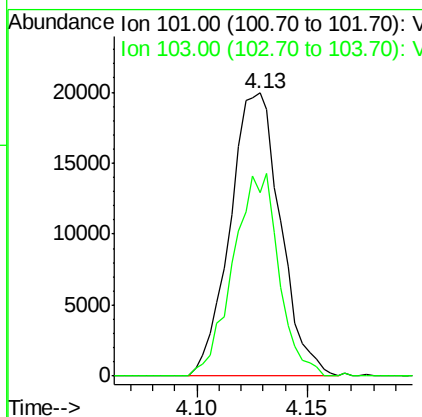
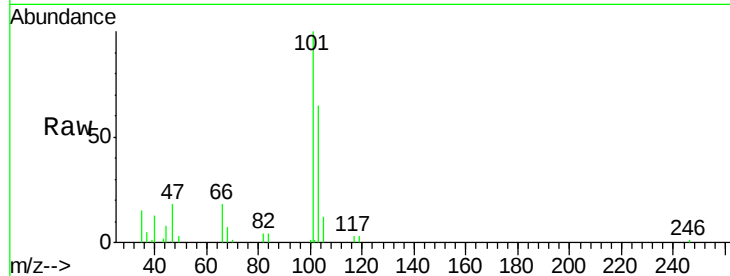
#11
 Trichlorofluoromethane
 Concen: 0.14 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	53.1	79.7

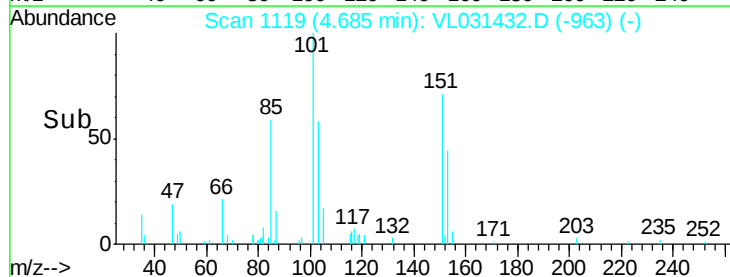
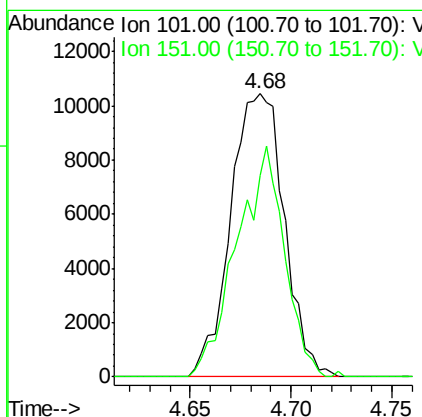
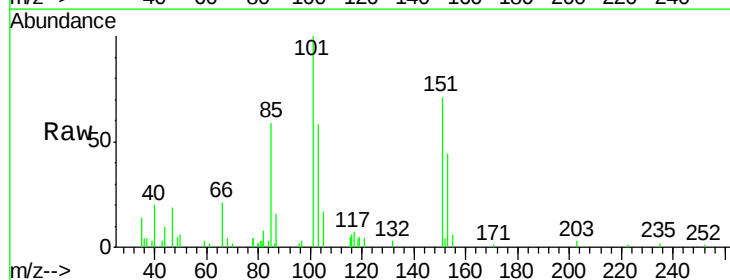
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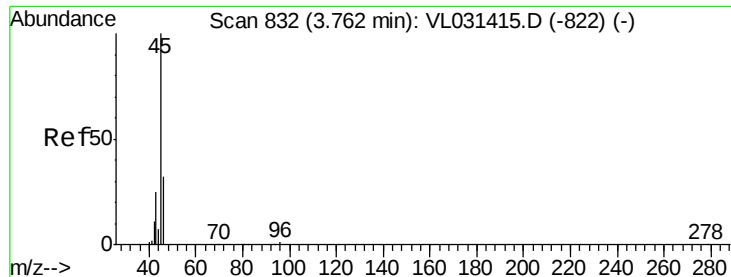
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.14 ppbv
 RT: 4.68 min Scan# 1119
 Delta R.T. 0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
101	100		
151	72.6	58.1	87.1





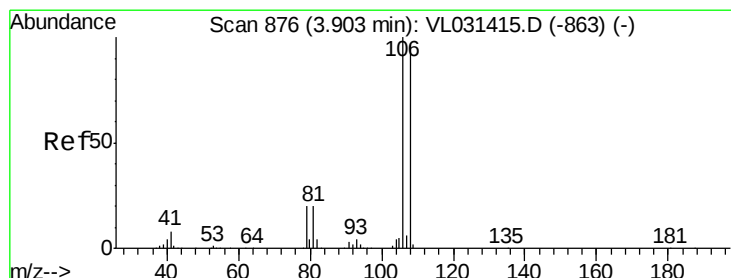
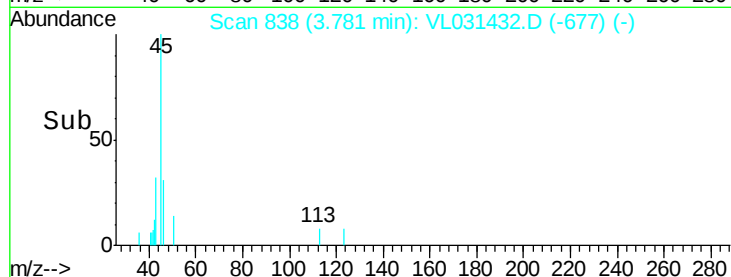
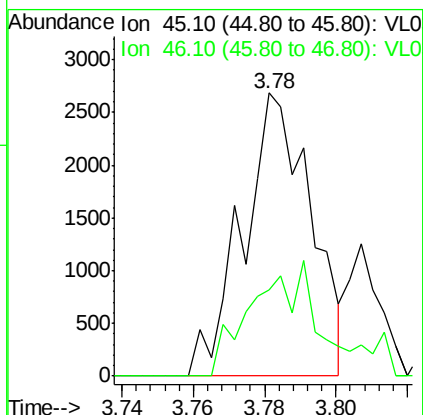
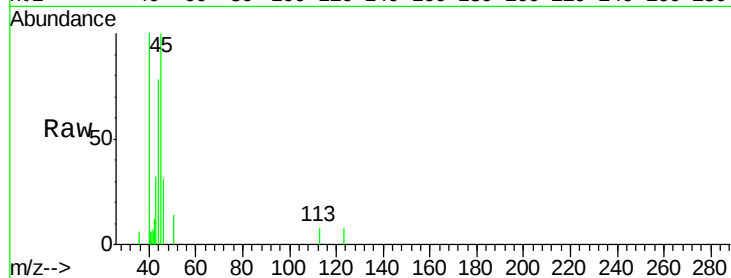
#13
Ethanol
Concen: 0.21 ppbv
RT: 3.78 min Scan# 838
Delta R.T. 0.02 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
45	100		
46	45.1	14.9	59.5

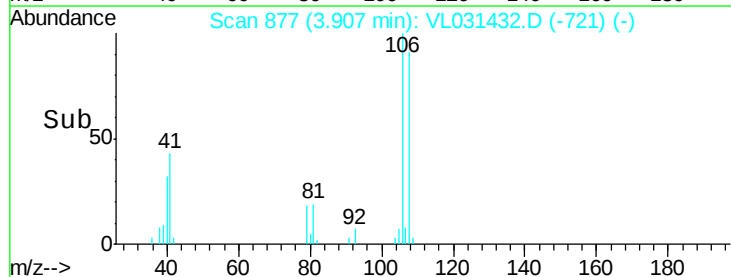
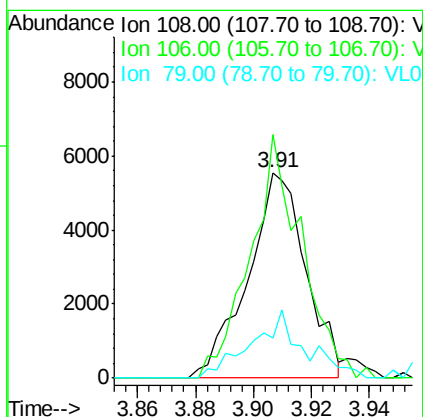
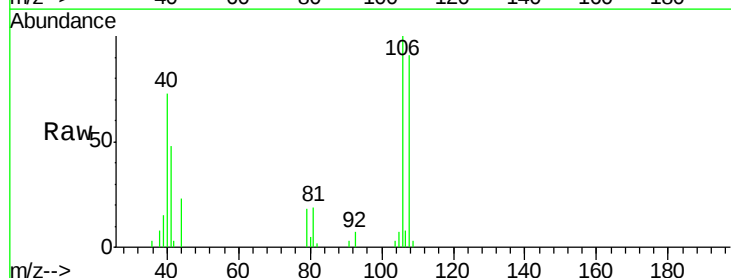
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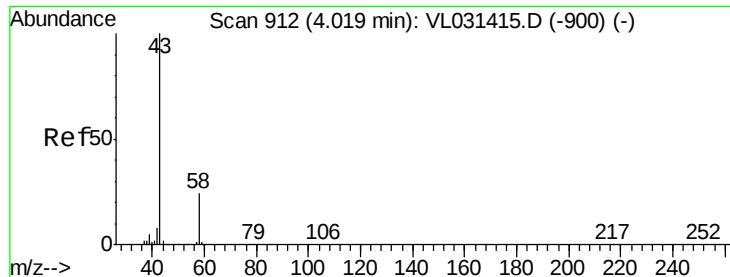
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1/24/2018 5:10:32 PM



#14
Bromoethene
Concen: 0.14 ppbv
RT: 3.91 min Scan# 877
Delta R.T. 0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.4	85.3	127.9
79	30.8	16.8	25.2#





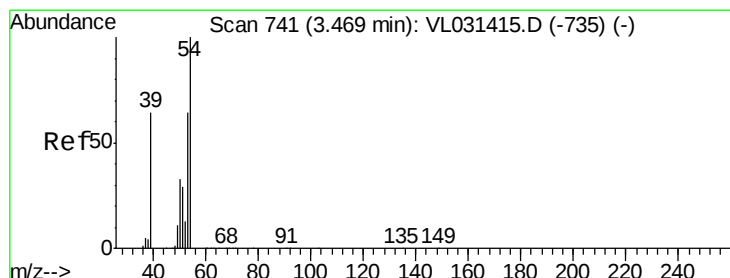
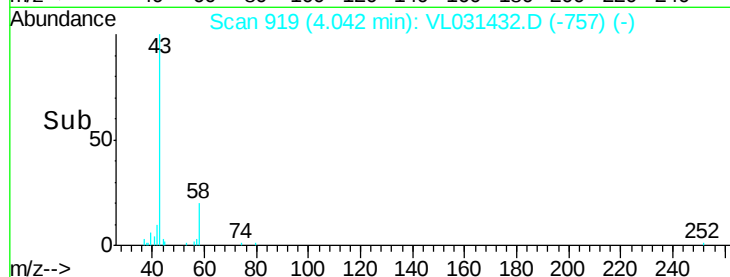
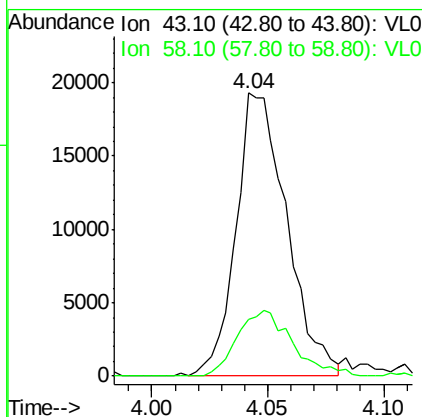
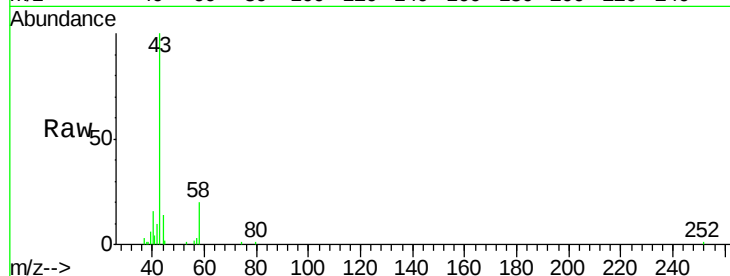
#15
Acetone
Concen: 0.19 ppbv
RT: 4.04 min Scan# 919
Delta R.T. 0.02 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
43	100		
58	25.2	19.4	29.2

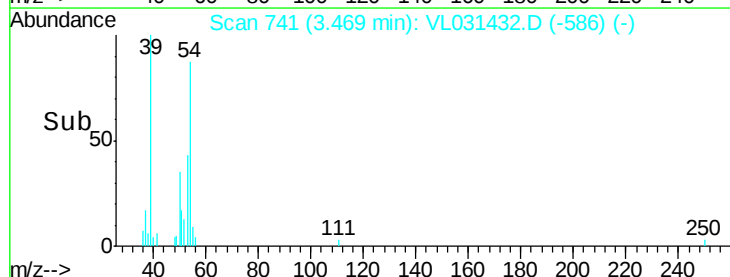
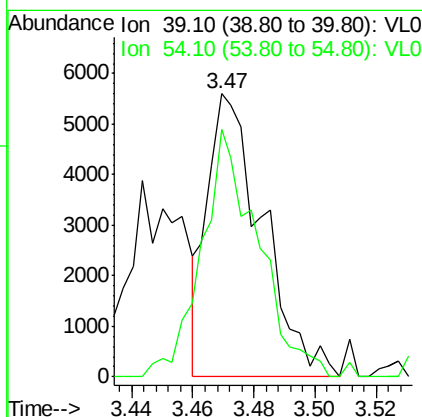
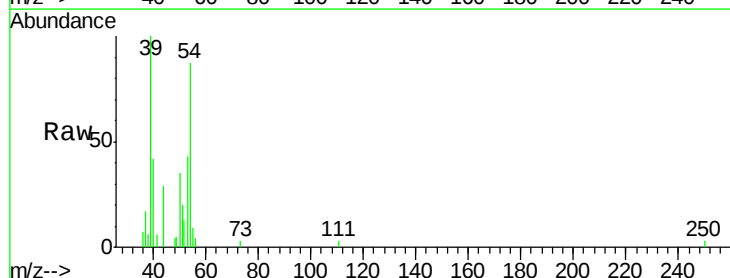
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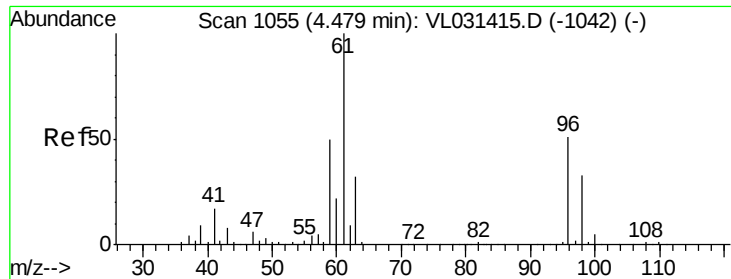
MMDadoda
1/24/2018 5:10:32 PM



#16
1,3-Butadiene
Concen: 0.11 ppbv m
RT: 3.47 min Scan# 741
Delta R.T. -0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
39	100		
54	90.0	67.0	100.6





#17

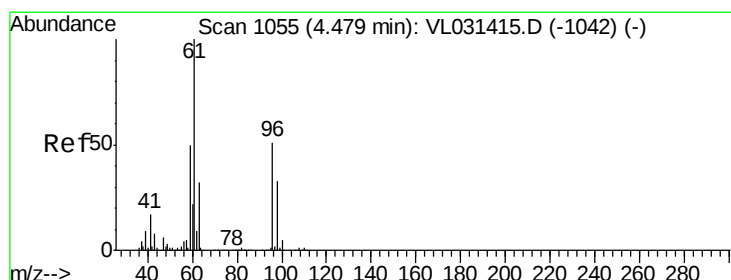
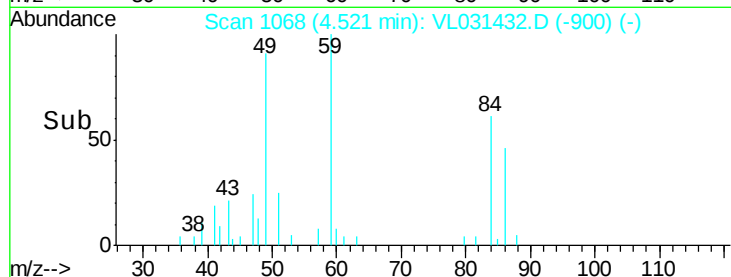
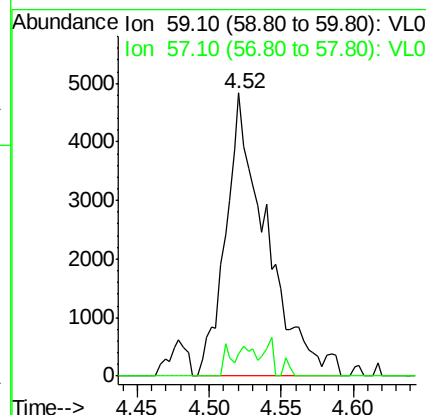
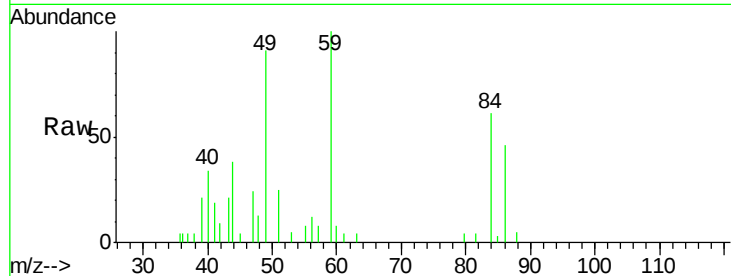
tert-Butyl alcohol
Concen: 0.12 ppbv m
RT: 4.52 min Scan# 1068
Delta R.T. 0.04 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-7

Tot Ion	59	Resp	9490
Ion Ratio	Lower	Upper	
59	100		
57	0.0	8.6	13.0#

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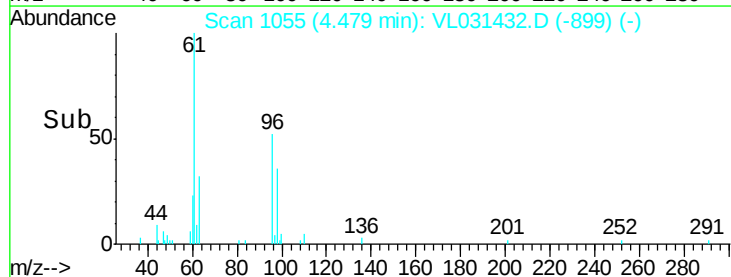
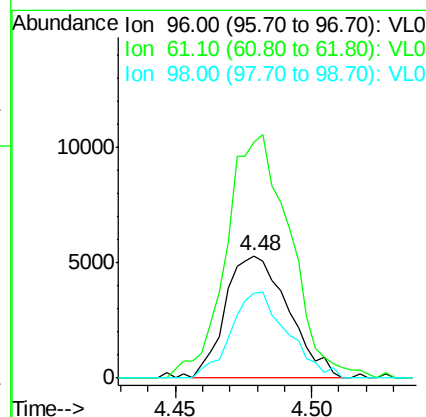
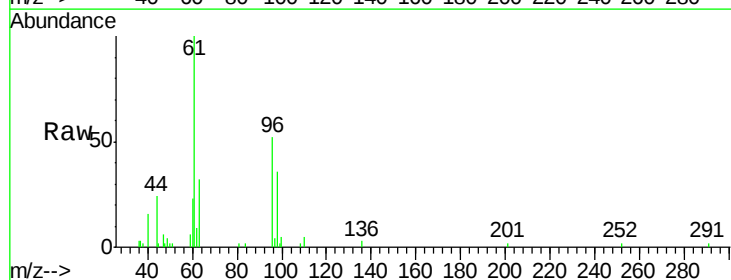
MMDadoda
1/24/2018 5:10:32 PM

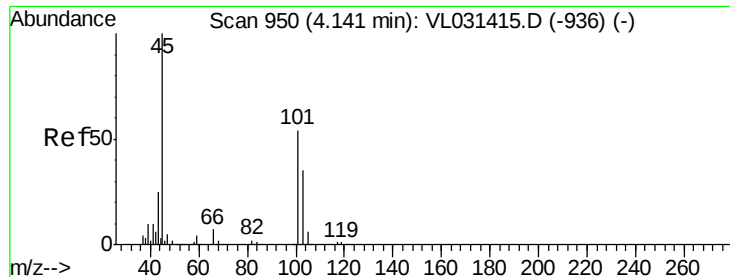


#18

1,1-Dichloroethene
Concen: 0.14 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	96	Resp	8463
Ion Ratio	Lower	Upper	
96	100		
61	184.2	161.6	242.4
98	69.2	49.6	74.4





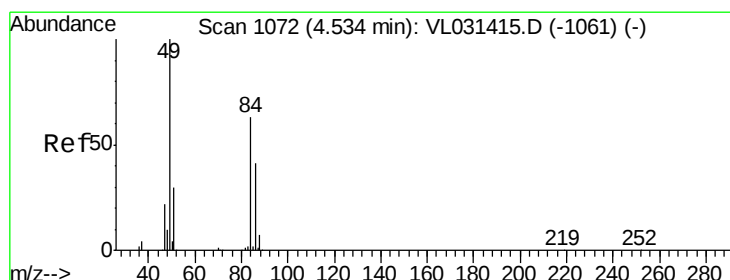
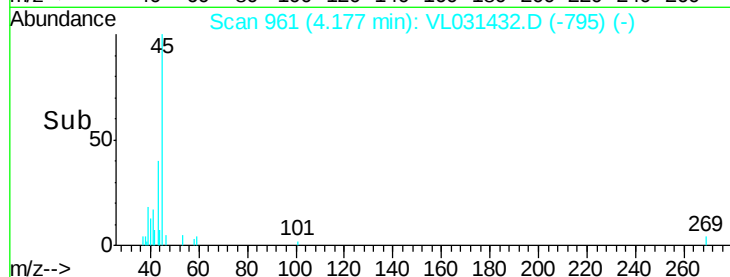
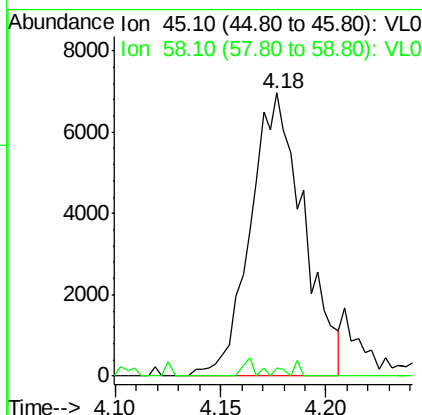
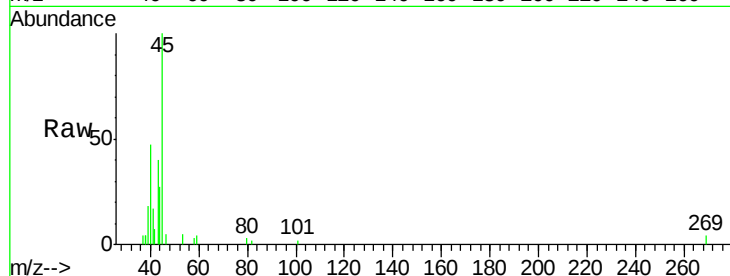
#19
Isopropyl Alcohol
Concen: 0.12 ppbv
RT: 4.18 min Scan# 961
Delta R.T. 0.03 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.6	1.0	1.4#

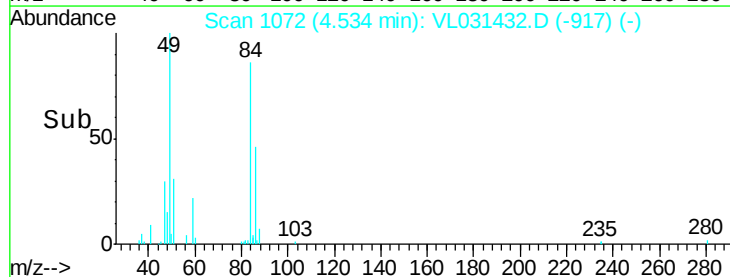
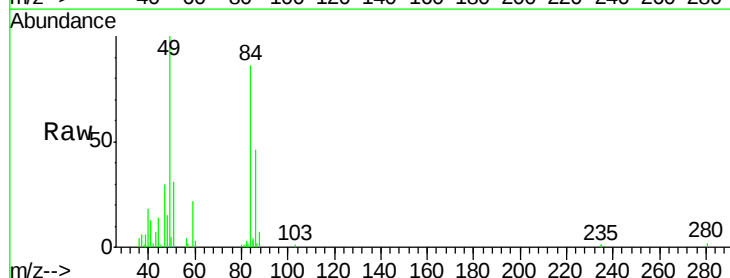
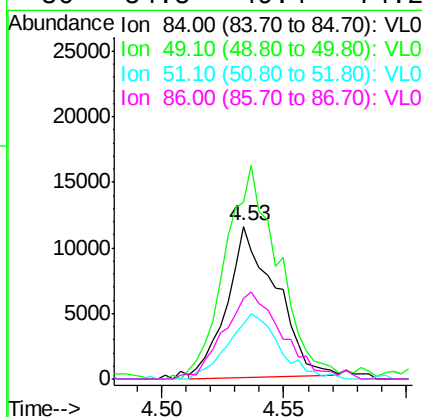
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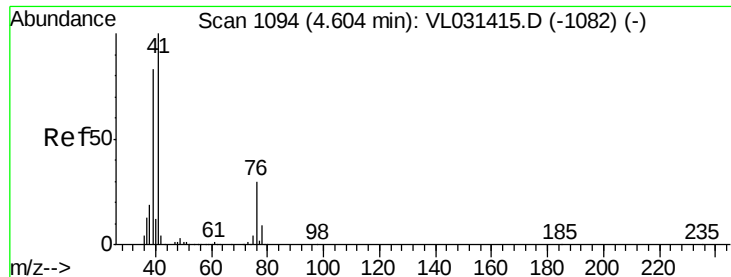
MMDadoda
1/24/2018 5:10:32 PM



#20
Methylene Chloride
Concen: 0.26 ppbv
RT: 4.53 min Scan# 1072
Delta R.T. -0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
84	100		
49	114.4	123.4	185.0#
51	37.3	35.6	53.4
86	54.5	49.4	74.2





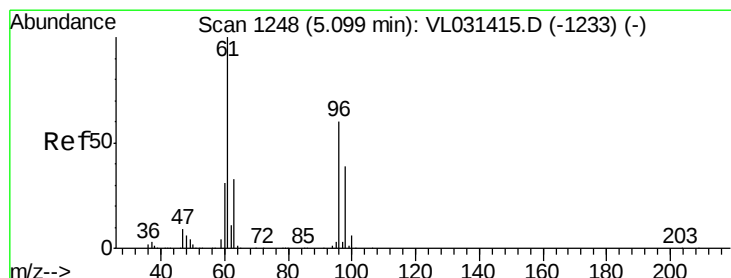
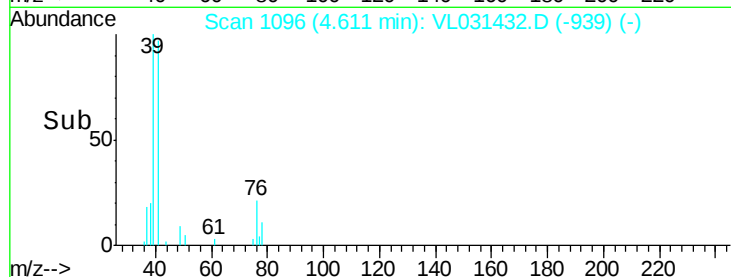
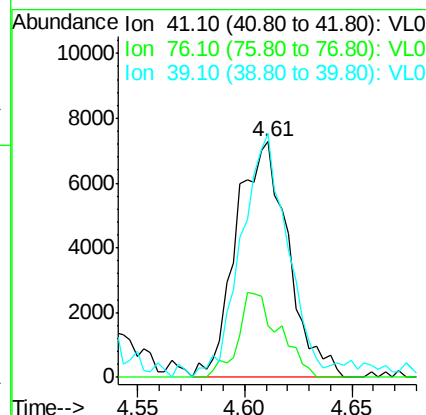
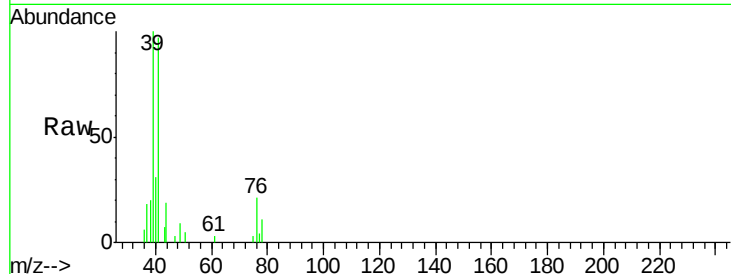
#21
Allvl Chloride
Concen: 0.13 ppbv m
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.2	24.2	36.2
39	0.0	69.8	104.8#

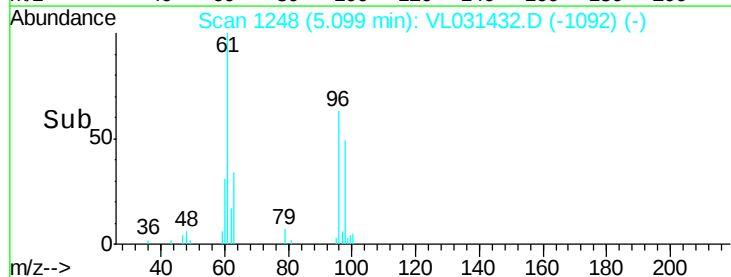
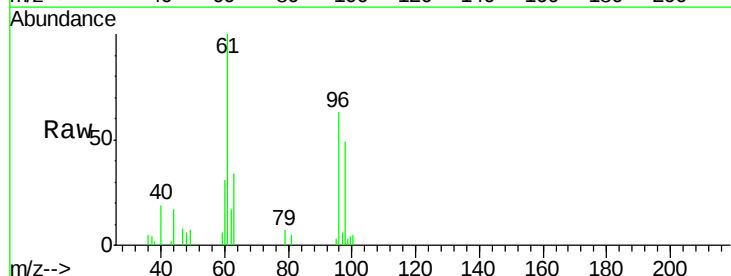
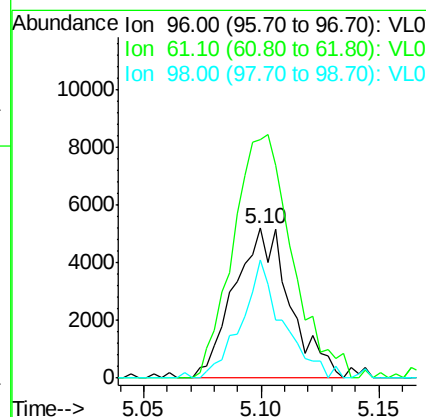
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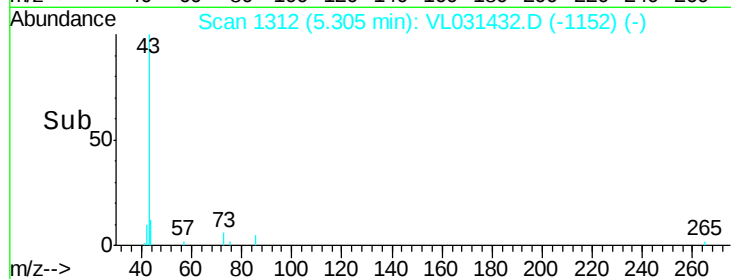
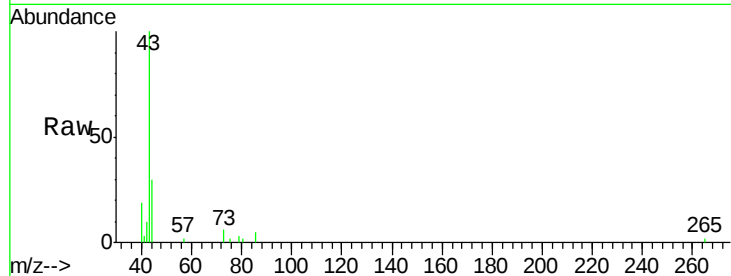
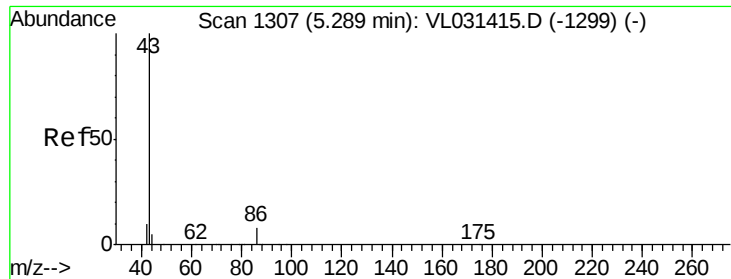
MMDadoda
1/24/2018 5:10:32 PM



#22
trans-1,2-Dichloroethene
Concen: 0.13 ppbv m
RT: 5.10 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.3	135.0	202.4
98	78.8	52.2	78.2#





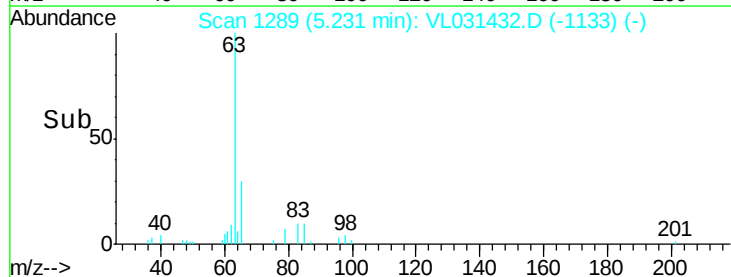
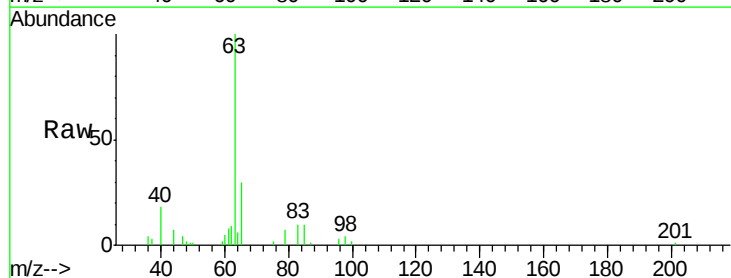
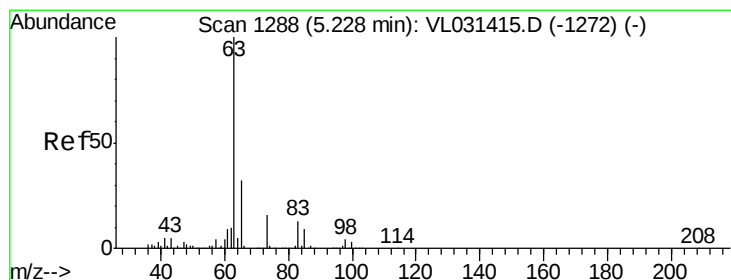
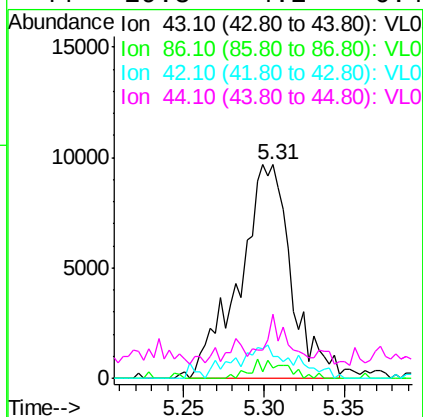
#23
 Vinyl Acetate
 Concen: 0.11 ppbv m
 RT: 5.31 min Scan# 1312
 Delta R.T. 0.01 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		21586		
86	5.1	5.6	8.4#		
42	10.3	8.6	12.8		
44	29.8	4.2	6.4#		

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

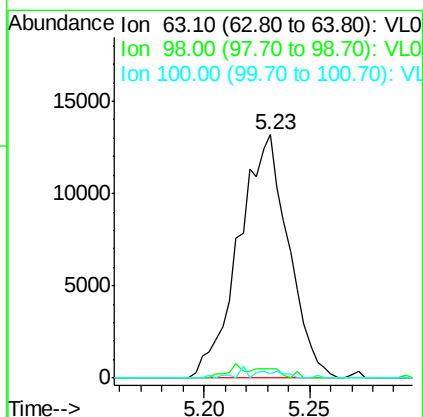
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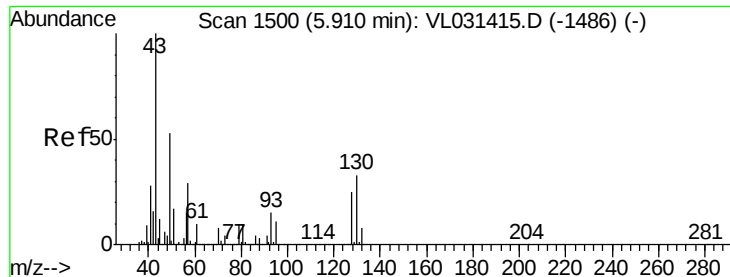
MMDadoda
 1/24/2018 5:10:32 PM



#24
 1,1-Dichloroethane
 Concen: 0.13 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. 0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		21606		
98	4.1	2.4	7.1		
100	1.8	1.3	3.9		





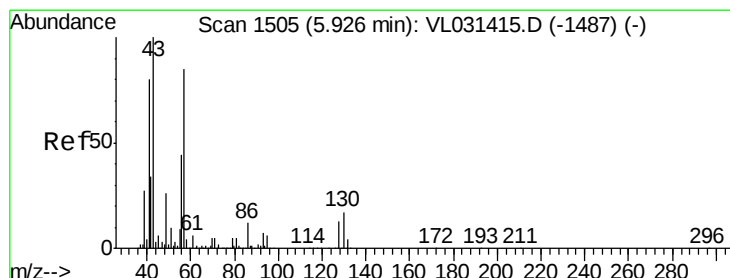
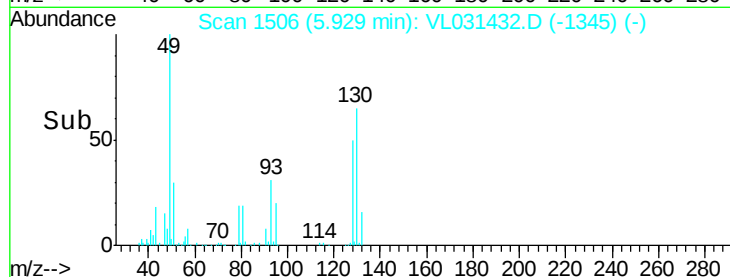
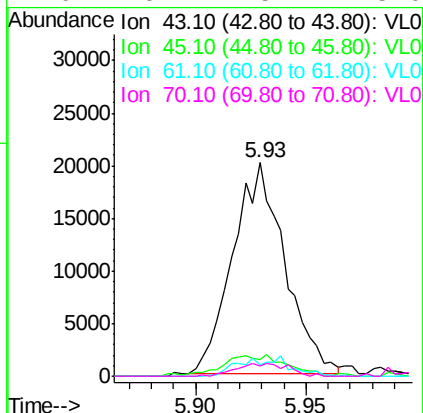
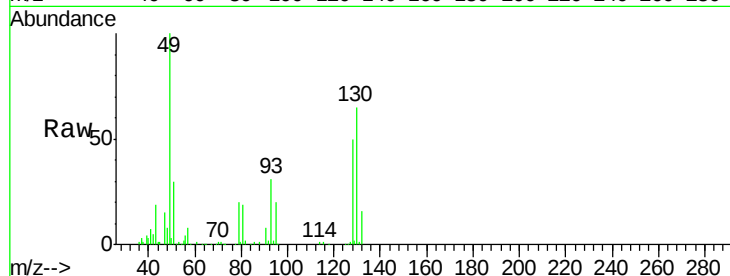
#25
Ethyl Acetate
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.02 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
43	100		
45	12.5	7.8	11.6#
61	8.8	7.0	10.6
70	6.1	5.4	8.0

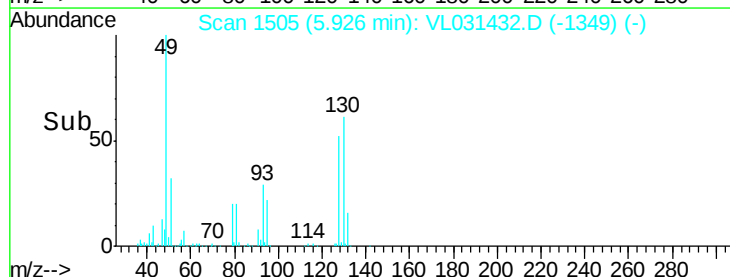
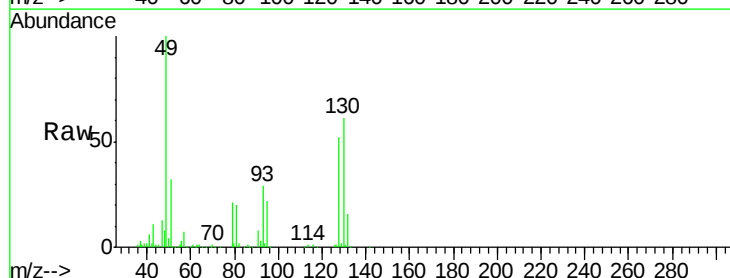
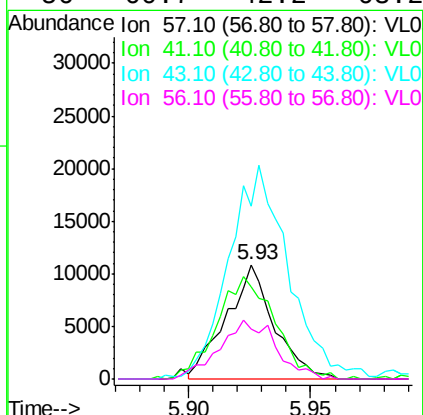
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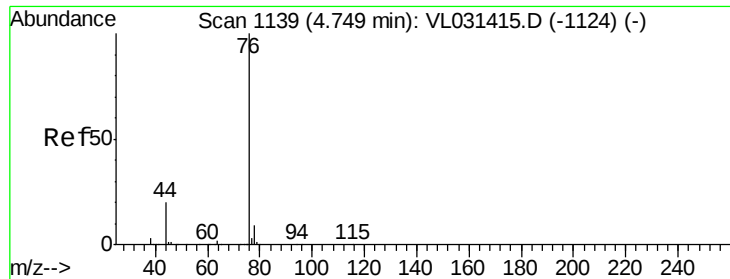
MMDadoda
1/24/2018 5:10:32 PM



#26
Hexane
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
57	100		
41	109.4	77.1	115.7
43	242.2	180.7	271.1
56	60.7	42.2	63.2





#27

Carbon Disulfide

Concen: 0.12 ppbv

RT: 4.76 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

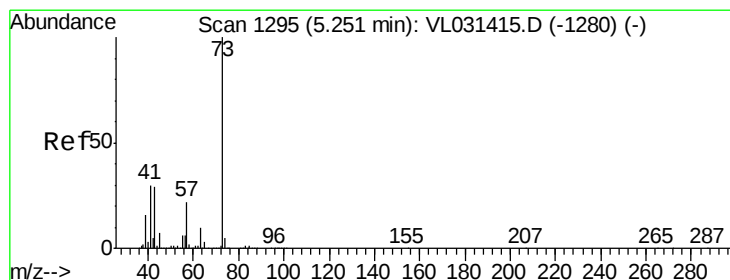
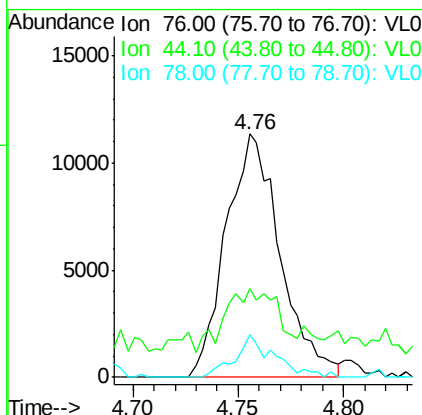
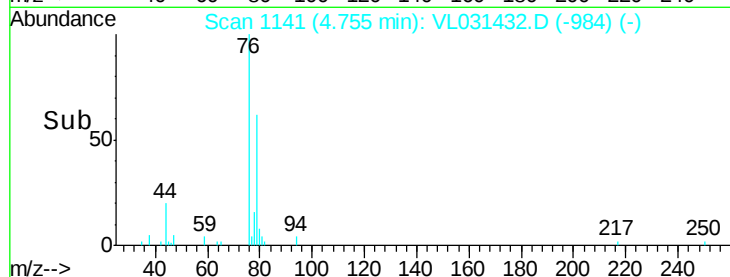
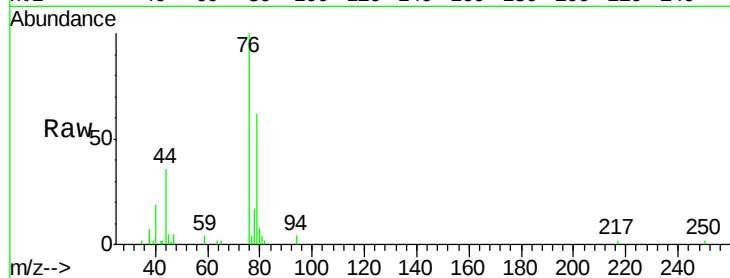
ClientSampleId :

MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
76	100		
44	28.7	16.7	25.1#
78	12.7	7.5	11.3#

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#28

Methyl tert-Butyl Ether

Concen: 0.11 ppbv m

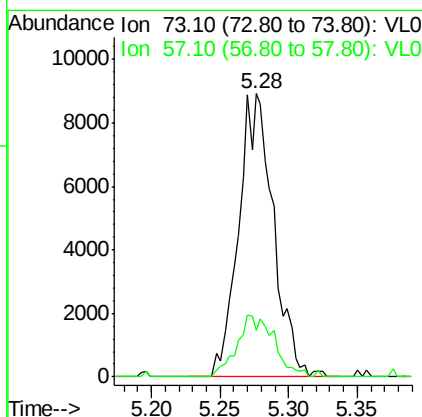
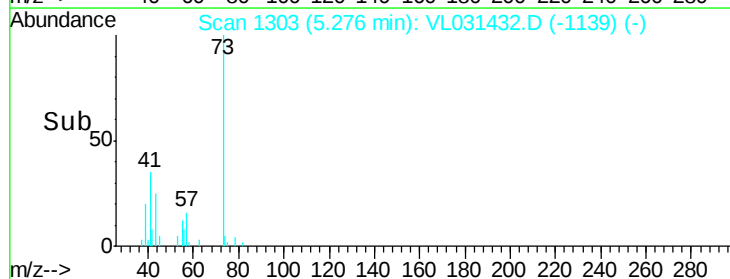
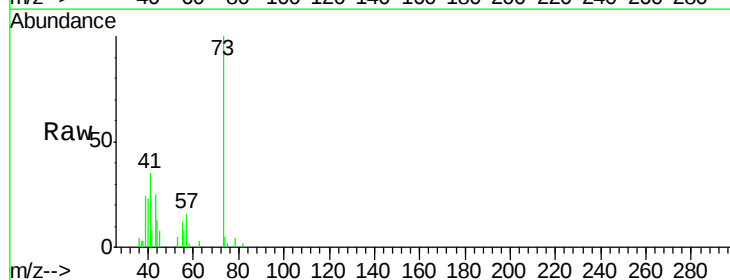
RT: 5.28 min Scan# 1303

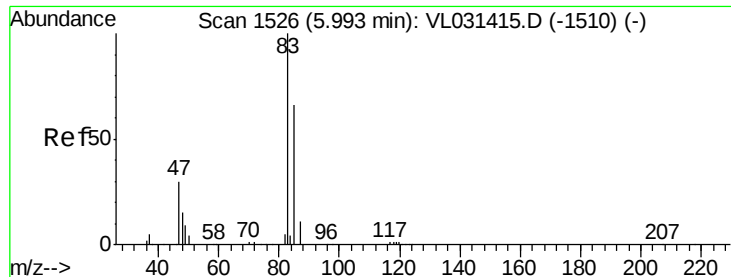
Delta R.T. 0.03 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.4	17.5	26.3





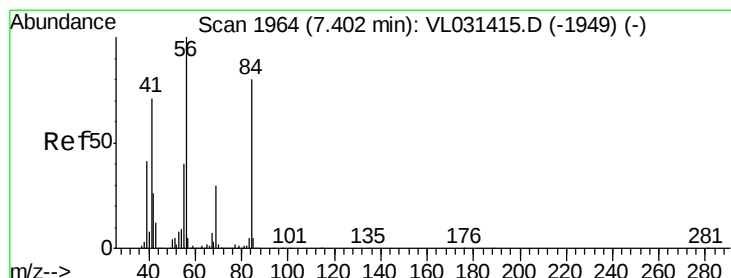
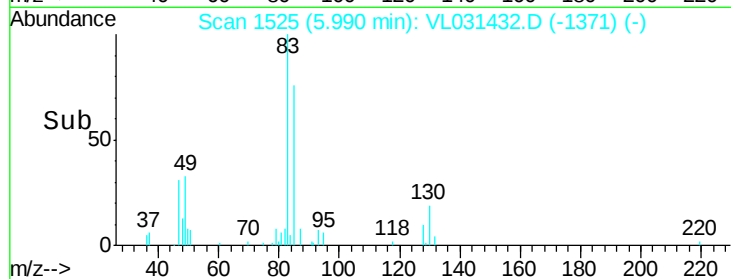
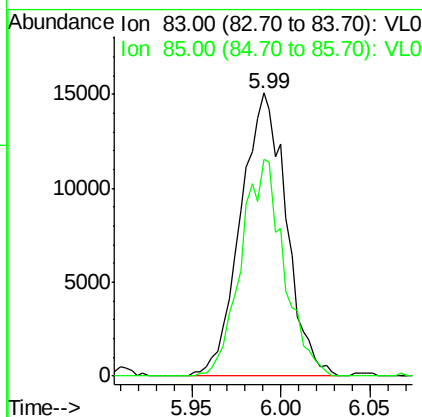
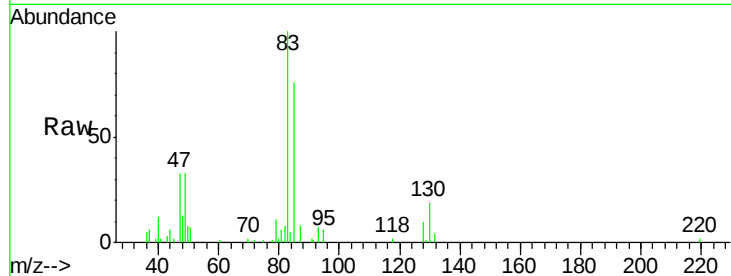
#29
Chloroform
Concen: 0.13 ppbv
RT: 5.99 min Scan# 1525
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	83	Resp	26957
Ion Ratio	100	Lower	Upper
83	100		
85	76.4	51.3	76.9

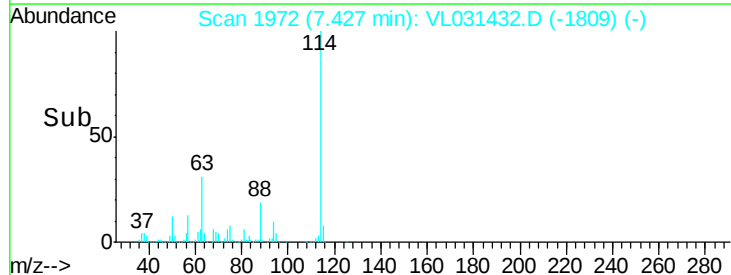
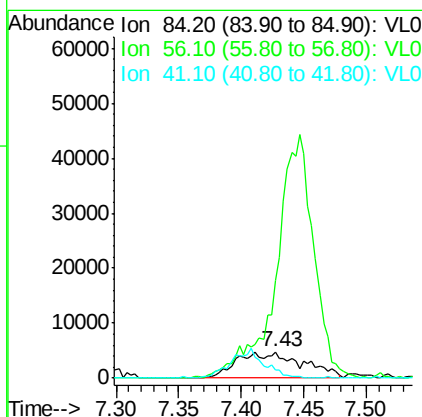
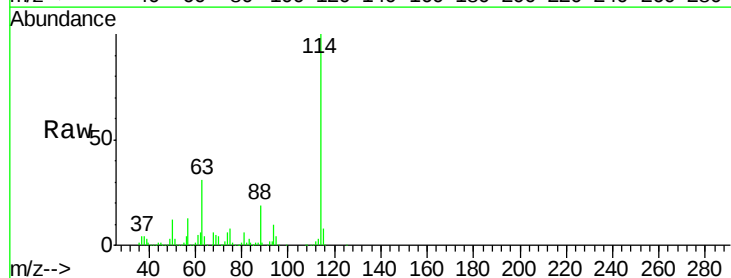
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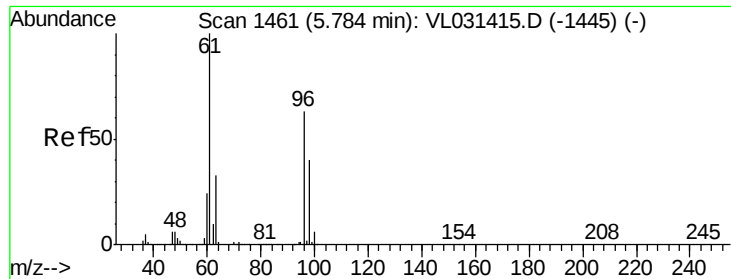
MMDadoda
1/24/2018 5:10:32 PM



#30
Cyclohexane
Concen: 0.18 ppbv m
RT: 7.43 min Scan# 1972
Delta R.T. 0.02 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	84	Resp	17339
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	109.0	163.4#
41	0.0	73.3	109.9#





#31

cis-1,2-Dichloroethene

Concen: 0.11 ppbv m

RT: 5.78 min Scan# 1460

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

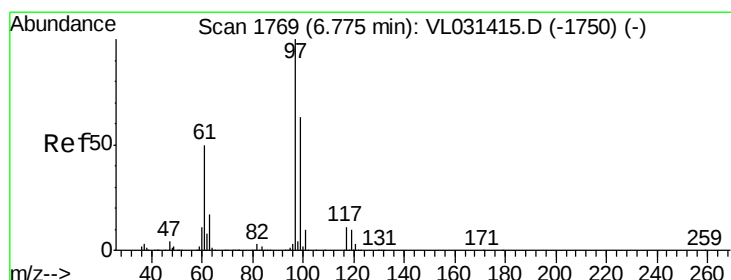
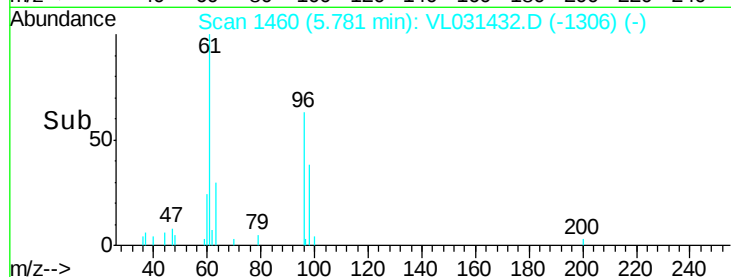
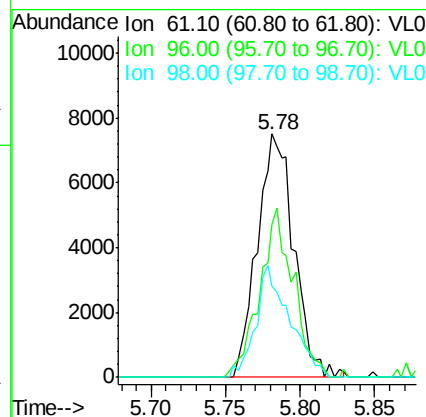
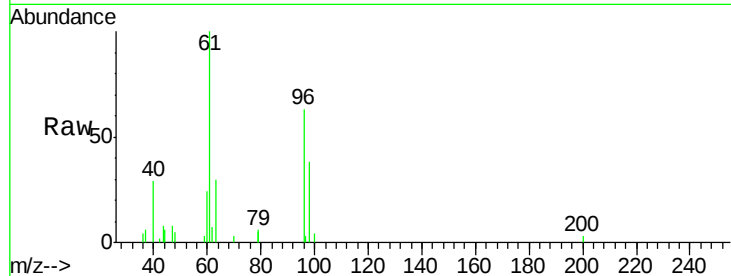
ClientSampleId :

MDL-AIR-7

Tot Ion:	61	Resp:	12899
Ion Ratio	Lower	Upper	
61	100		
96	62.8	51.3	76.9
98	37.8	33.6	50.4

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1/24/2018 5:10:32 PM



#32

1,1,1-Trichloroethane

Concen: 0.12 ppbv m

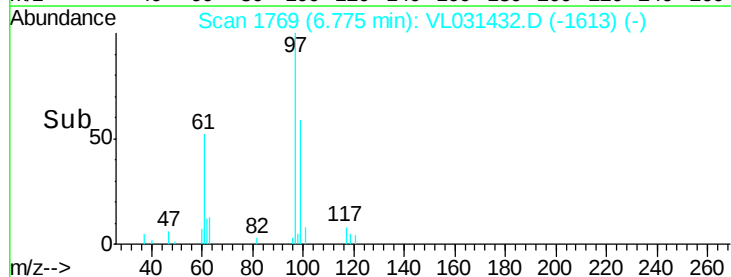
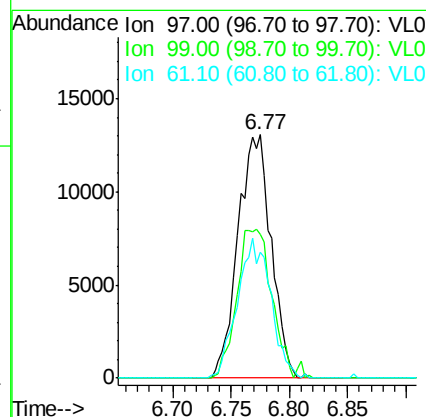
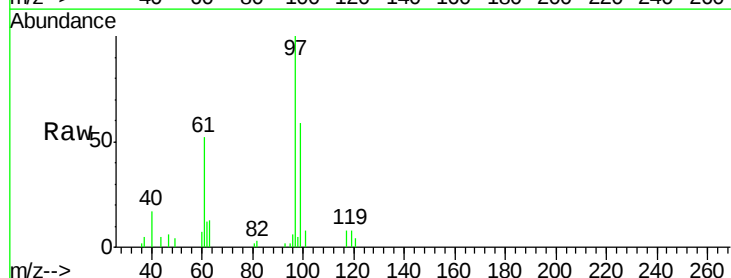
RT: 6.77 min Scan# 1769

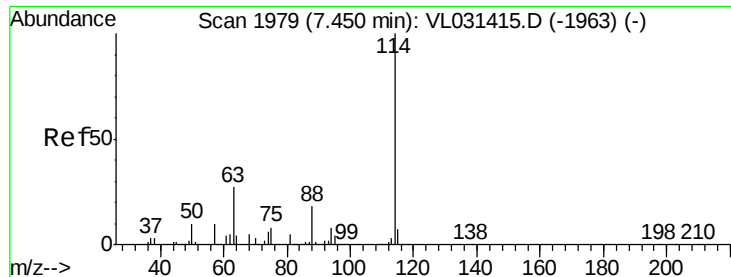
Delta R.T. 0.00 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Tgt Ion:	97	Resp:	25602
Ion Ratio	Lower	Upper	
97	100		
99	65.3	51.9	77.9
61	57.7	40.6	61.0





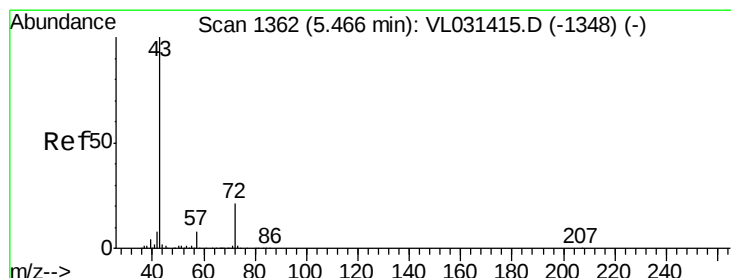
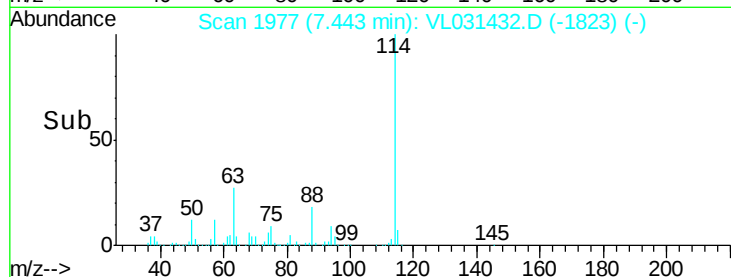
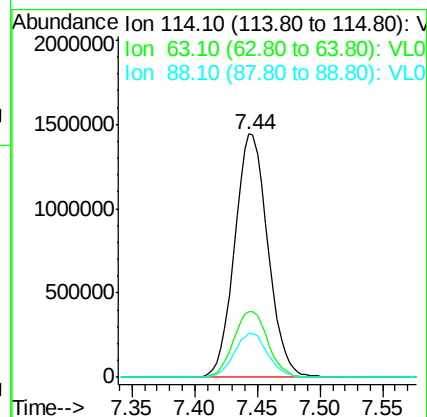
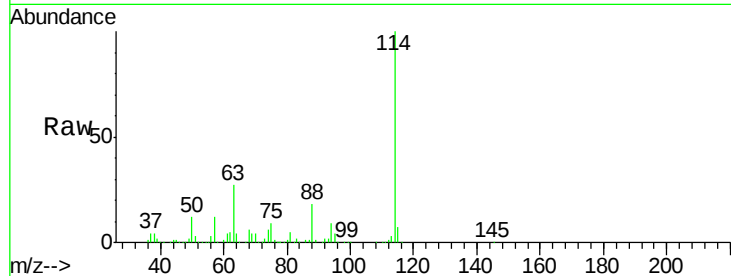
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.44 min Scan# 1977
 Delta R.T. -0.01 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.5	33.7
88	18.3	14.6	22.0

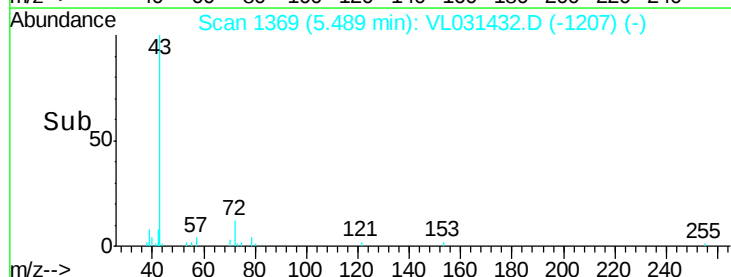
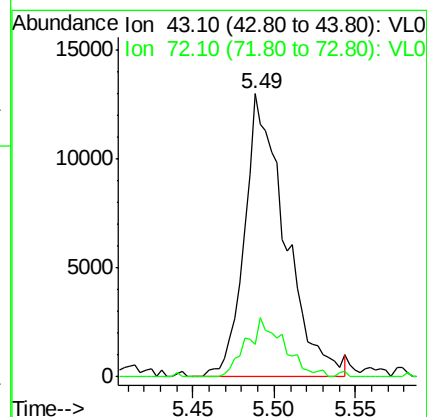
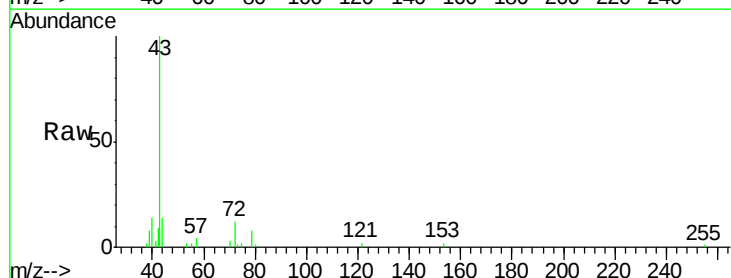
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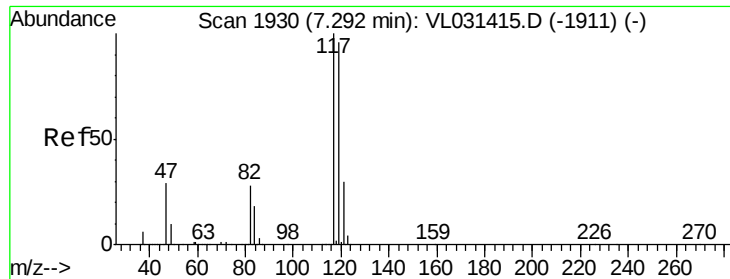
MMDadoda
 1/24/2018 5:10:32 PM



#34
 2-Butanone
 Concen: 0.13 ppbv m
 RT: 5.49 min Scan# 1369
 Delta R.T. 0.02 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.7	16.8	25.2





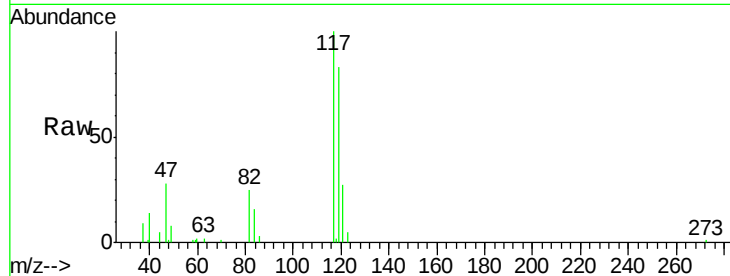
#35
Carbon Tetrachloride
Concen: 0.13 ppbv m
RT: 7.29 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

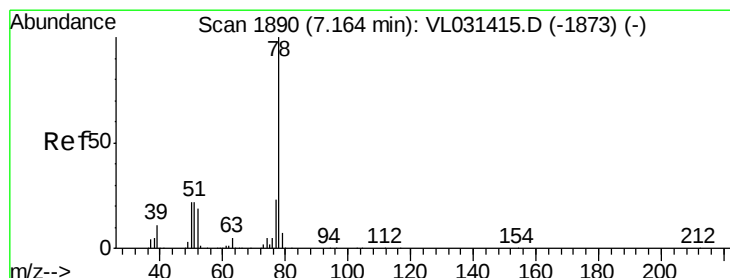
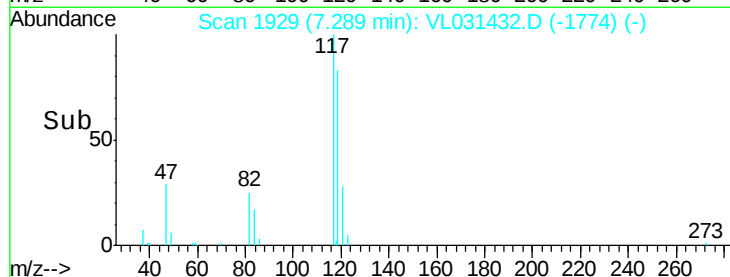
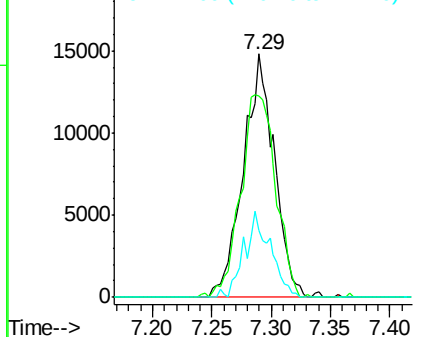
Tot Ion	Ratio	Lower	Upper
117	100		
119	82.9	74.2	111.4
121	27.3	24.2	36.4

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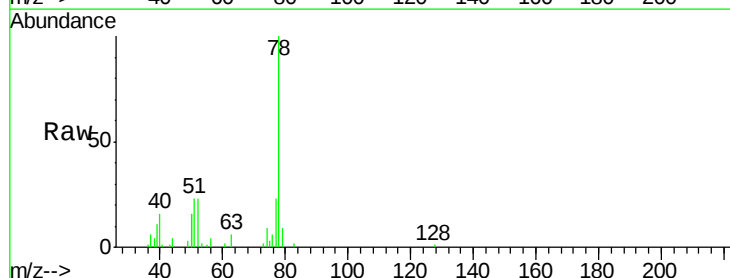


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

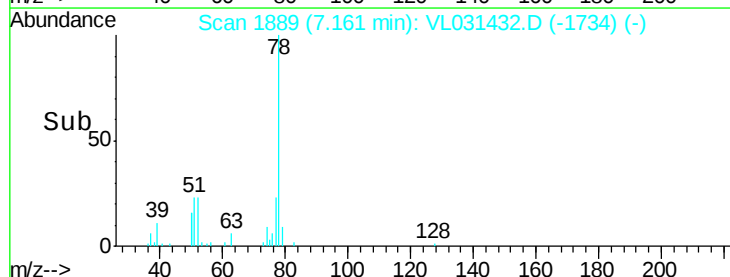
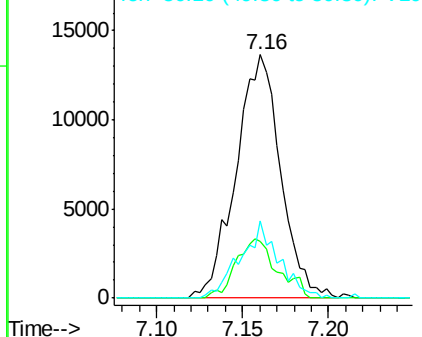


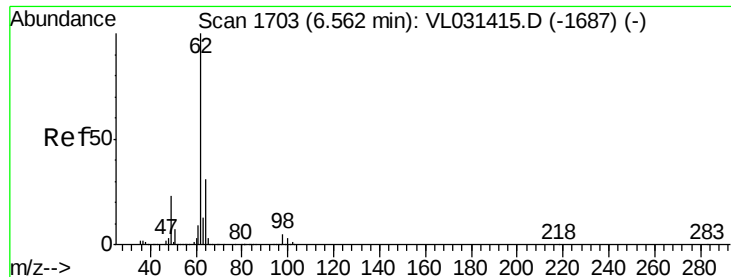
#36
Benzene
Concen: 0.10 ppbv
RT: 7.16 min Scan# 1889
Delta R.T. -0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.7	28.1
50	31.7	18.4	27.6#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





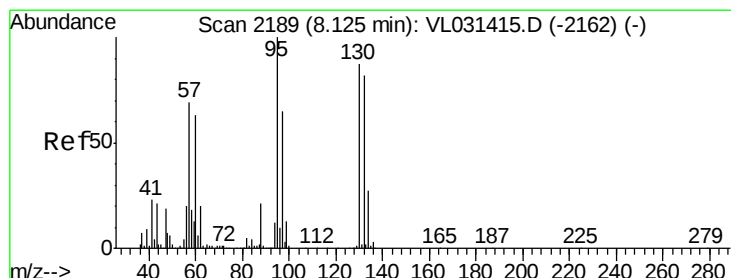
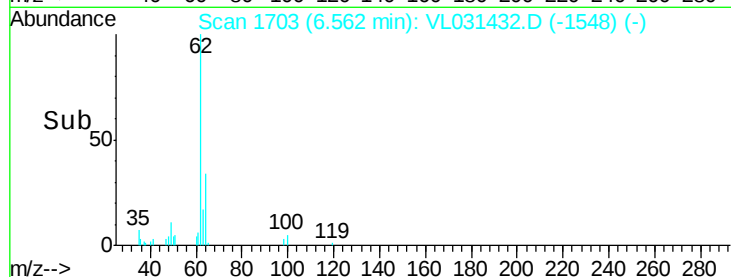
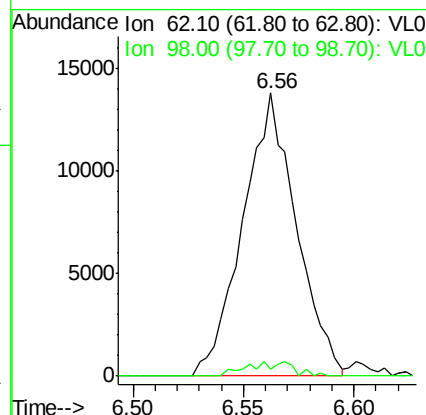
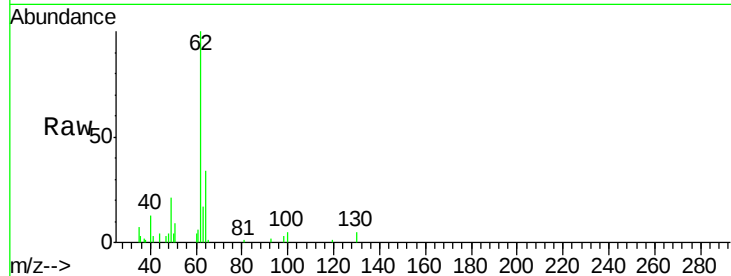
#37
 1,2-Dichloroethane
 Concen: 0.13 ppbv
 RT: 6.56 min Scan# 1703
 Delta R.T. -0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

Tot Ion	Ratio	Resp	Lower	Upper
62	100	23307		
98	4.4		4.1	6.1

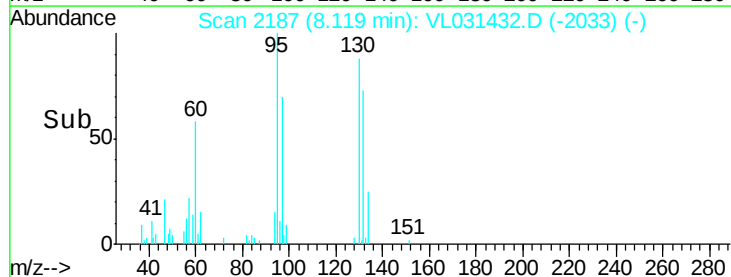
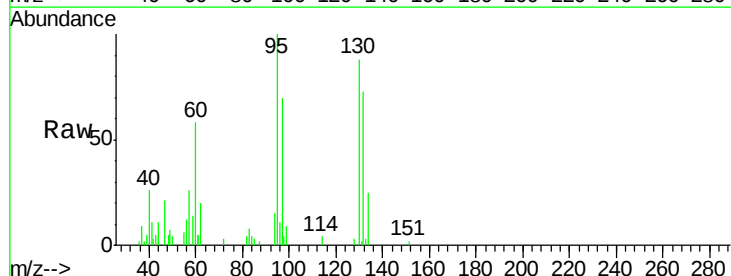
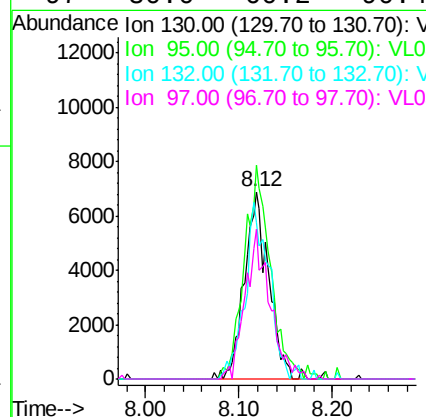
Manual Integrations
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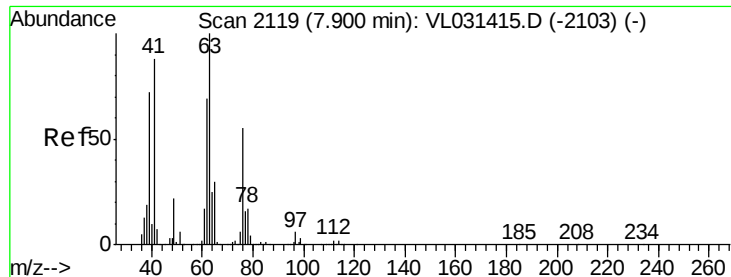
MMDadoda
 1/24/2018 5:10:32 PM



#38
 Trichloroethene
 Concen: 0.14 ppbv m
 RT: 8.12 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	12624		
95	114.2		92.9	139.3
132	83.2		74.9	112.3
97	80.0		60.2	90.4





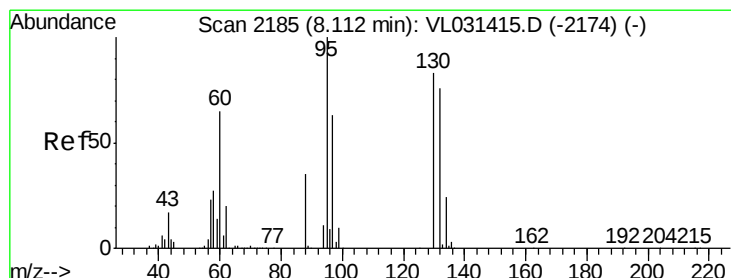
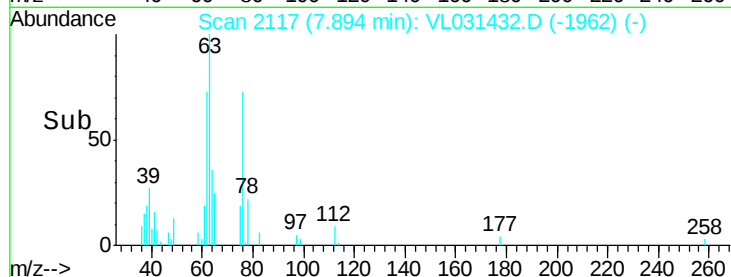
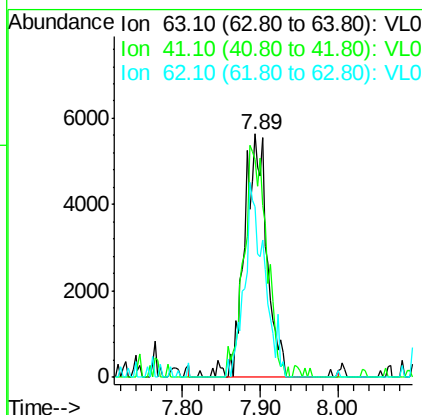
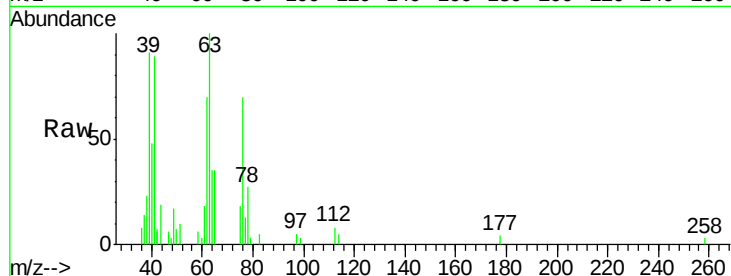
#39
 1,2-Dichloropropane
 Concen: 0.13 ppbv m
 RT: 7.89 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
63	100		
41	89.5	67.6	101.4
62	70.3	51.8	77.6

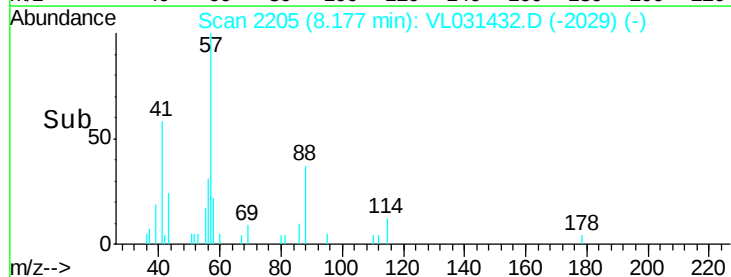
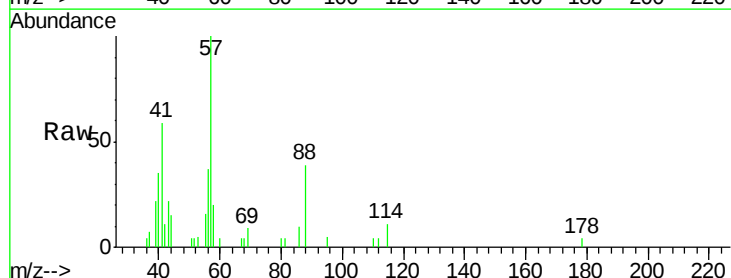
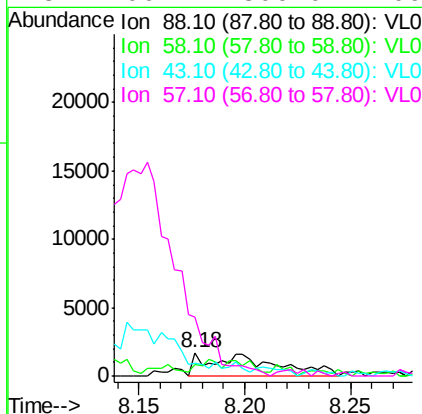
Manual Integrations
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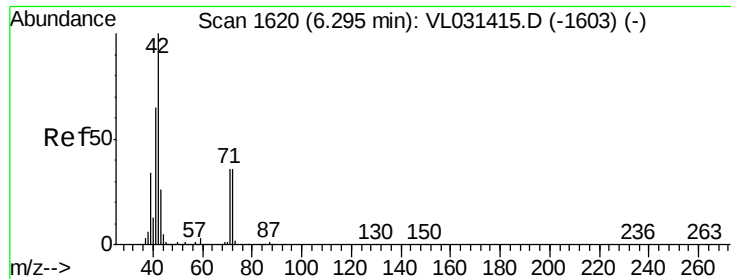
MMDadoda
 1/24/2018 5:10:32 PM



#40
 1,4-Dioxane
 Concen: 0.10 ppbv m
 RT: 8.18 min Scan# 2205
 Delta R.T. 0.06 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
88	100		
58	51.7	98.2	147.2#
43	283.1	197.3	295.9
57	1004.7	806.0	1209.0





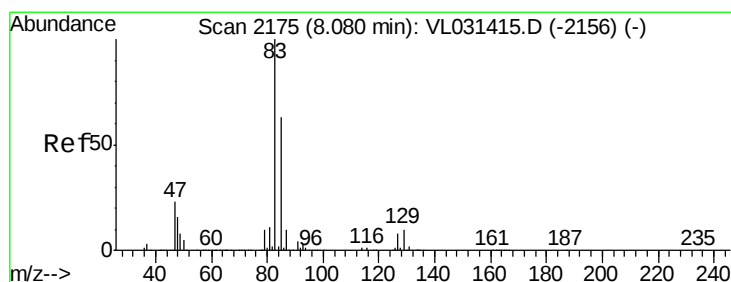
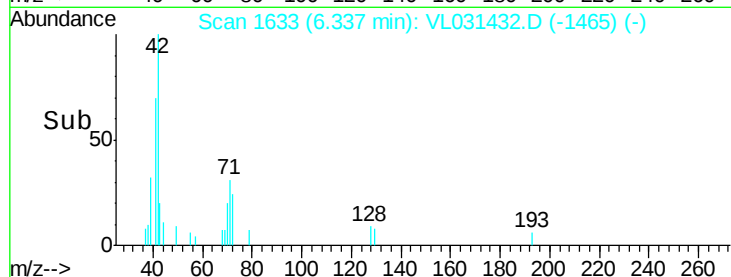
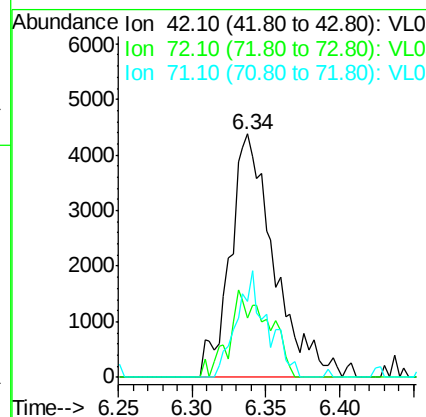
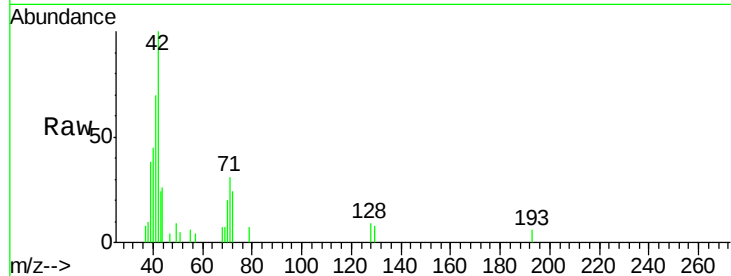
#41
Tetrahydrofuran
Concen: 0.10 ppbv m
RT: 6.34 min Scan# 1633
Delta R.T. 0.04 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

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

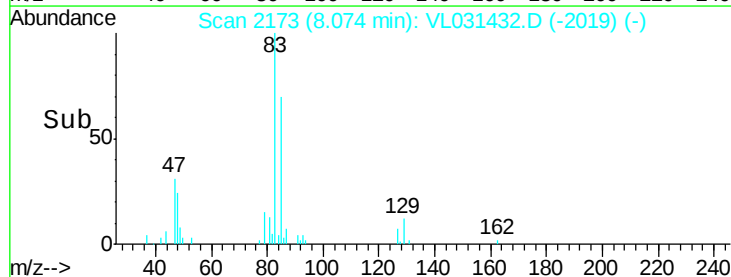
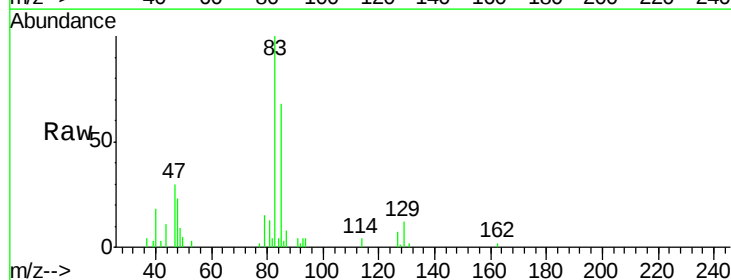
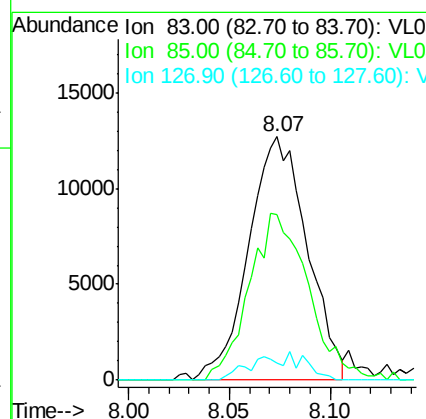
Manual Integrations
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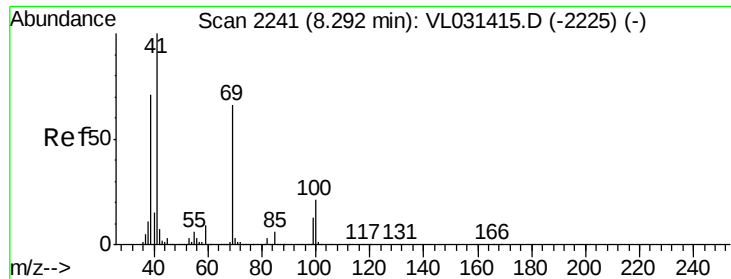
MMDadoda
1/24/2018 5:10:32 PM



#42
Bromodichloromethane
Concen: 0.12 ppbv
RT: 8.07 min Scan# 2173
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.2	52.1	78.1
127	8.3	6.6	10.0





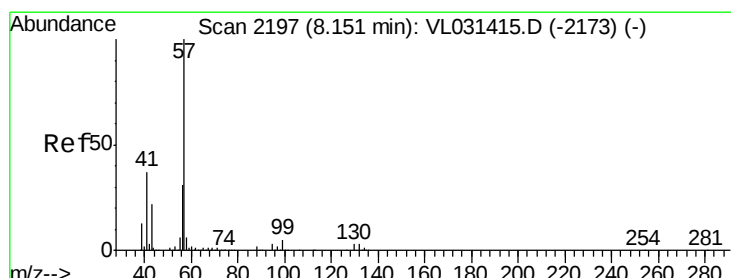
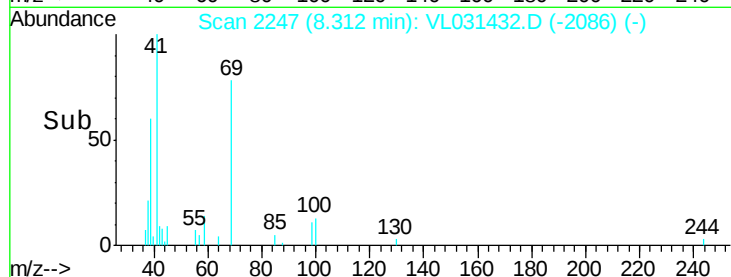
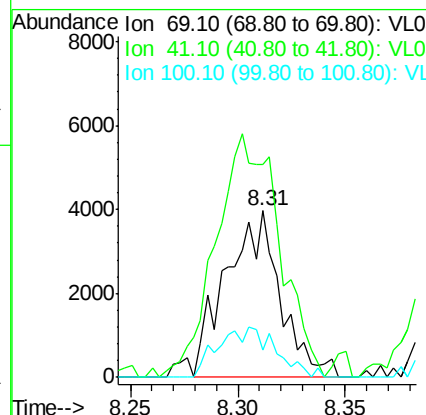
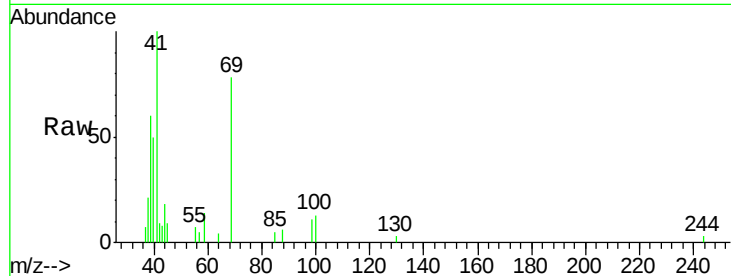
#43
Methyl Methacrylate
Concen: 0.08 ppbv m
RT: 8.31 min Scan# 2247
Delta R.T. 0.02 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
69	100		
41	177.5	127.0	190.6
100	31.9	24.6	37.0

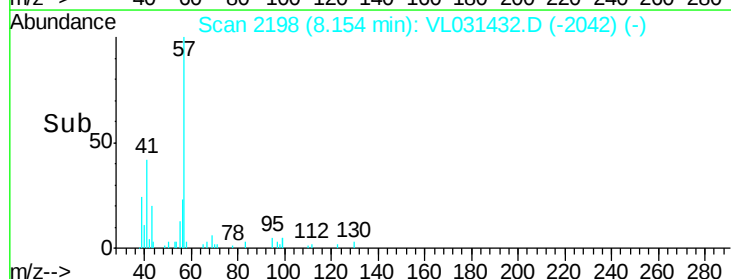
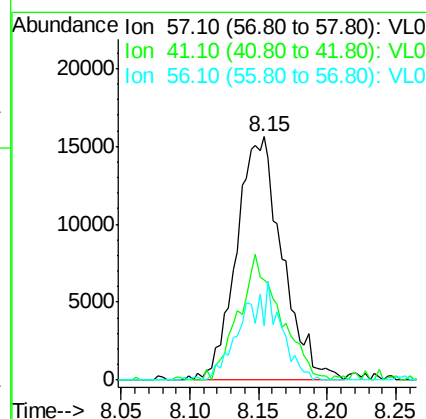
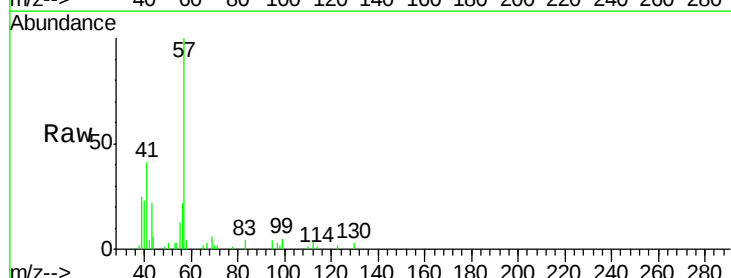
Manual Integrations
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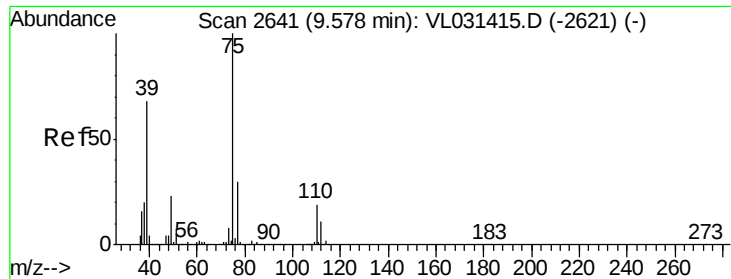
MMDadoda
1/24/2018 5:10:32 PM



#44
2,2,4-Trimethylpentane
Concen: 0.09 ppbv m
RT: 8.15 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
57	100		
41	48.0	28.8	43.2#
56	0.0	24.6	37.0#





#45

t-1,3-Dichloropropene

Concen: 0.08 ppbv m

RT: 9.58 min Scan# 2640

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-7

Tot Ion: 75 Resp: 9715

Ion Ratio Lower Upper

75 100

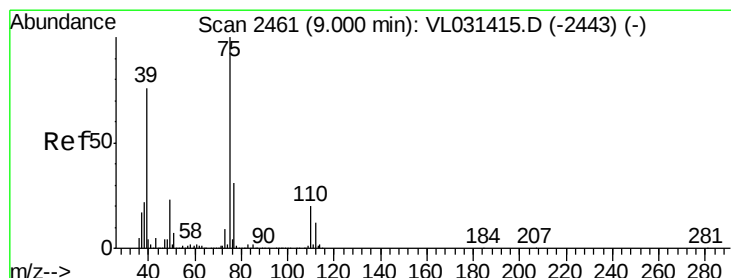
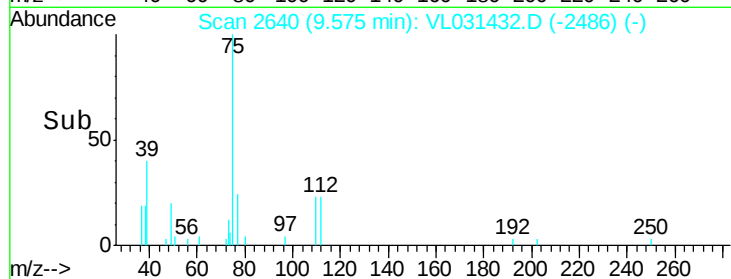
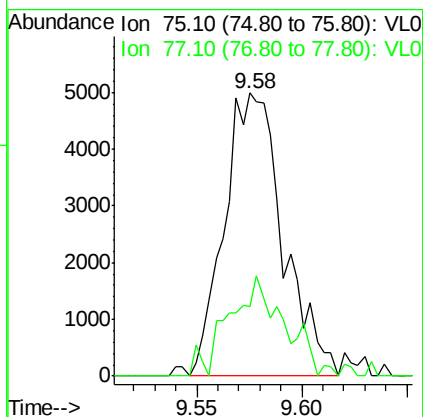
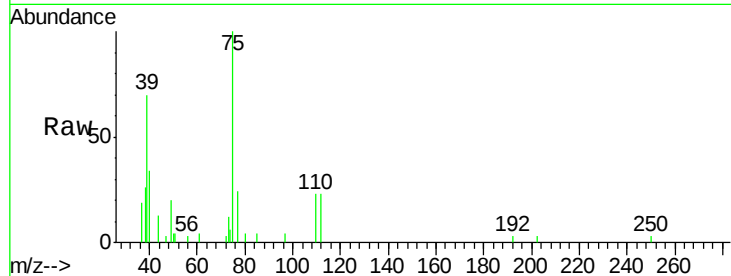
77 24.4 25.3 37.9#

Manual Integrations

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1/24/2018 5:10:32 PM



#46

cis-1,3-Dichloropropene

Concen: 0.08 ppbv m

RT: 8.99 min Scan# 2459

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

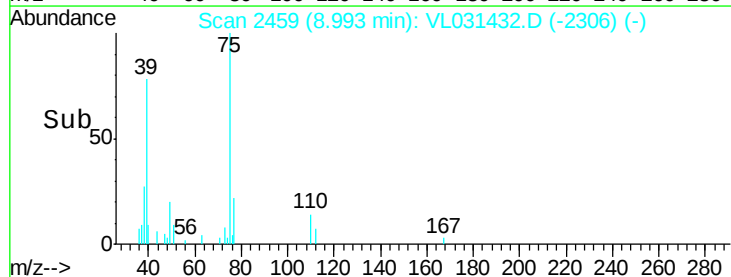
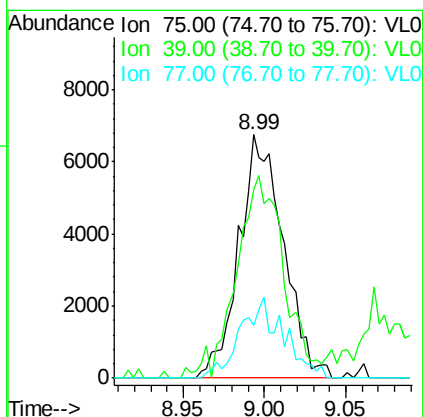
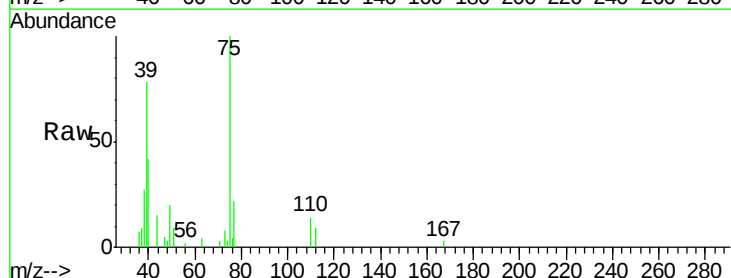
Tgt Ion: 75 Resp: 12835

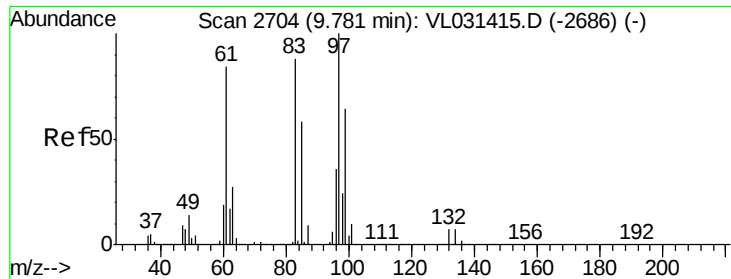
Ion Ratio Lower Upper

75 100

39 77.7 59.4 89.0

77 21.9 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: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

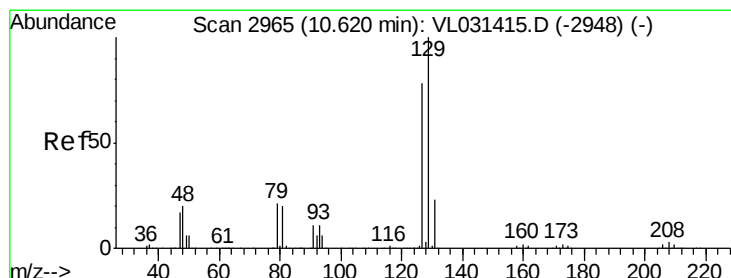
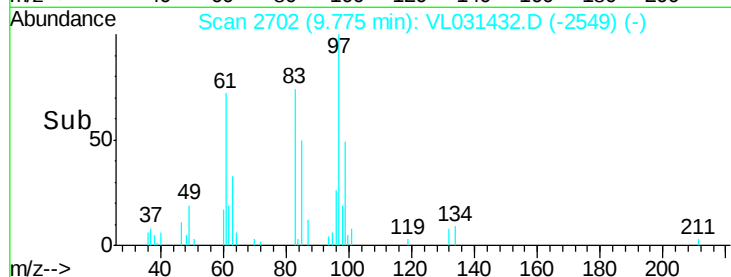
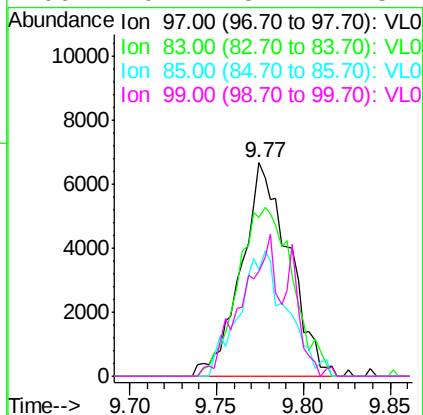
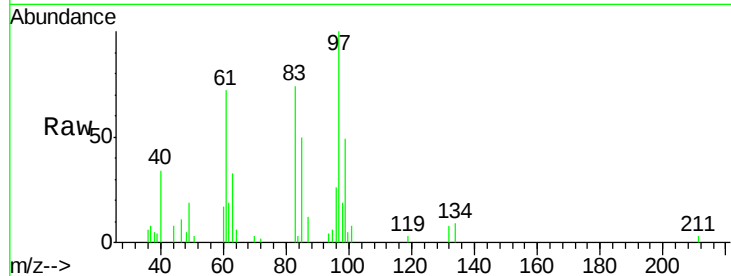
ClientSampleId :

MDL-AIR-7

Tot Ion:	97	Resp:	12768
Ion	Ratio	Lower	Upper
97	100		
83	74.4	71.4	107.2
85	49.9	46.2	69.2
99	49.4	52.2	78.2#

Manual Integrations
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#48

Dibromochloromethane

Concen: 0.11 ppbv

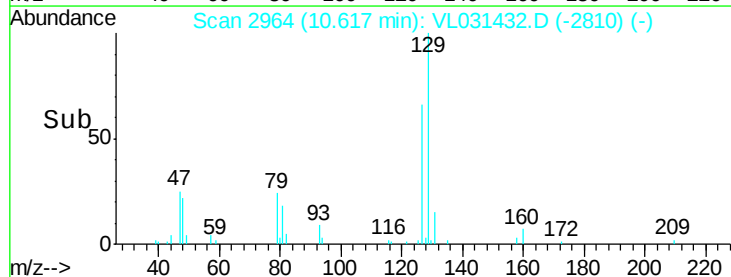
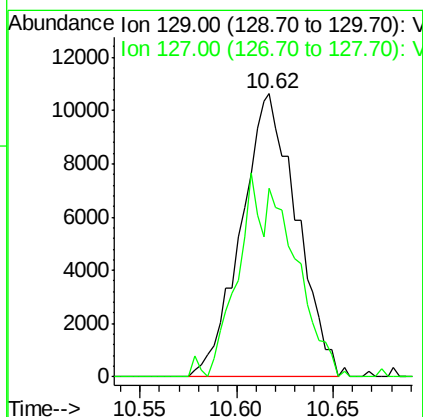
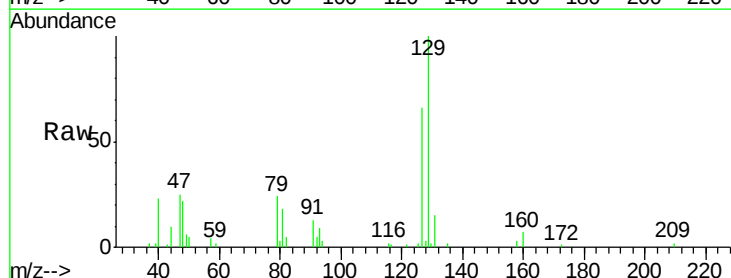
RT: 10.62 min Scan# 2964

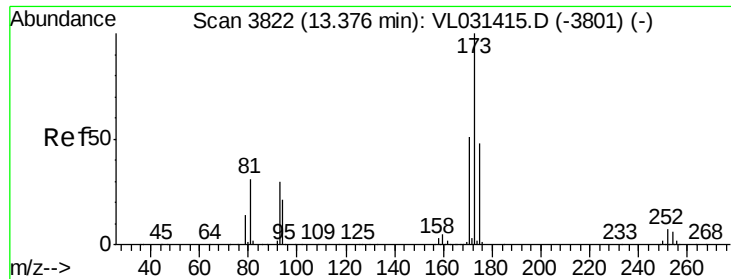
Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Tgt Ion:	129	Resp:	21159
Ion	Ratio	Lower	Upper
129	100		
127	71.8	39.4	118.1





#49

Bromoform

Concen: 0.11 ppbv m

RT: 13.37 min Scan# 3819

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

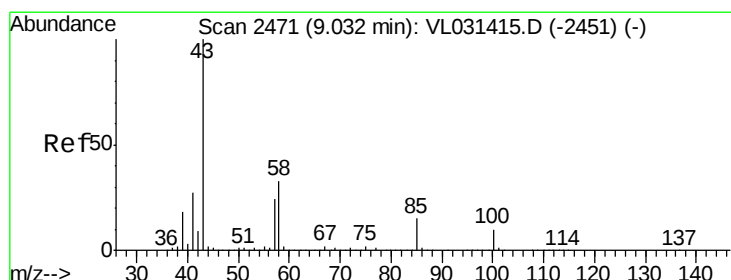
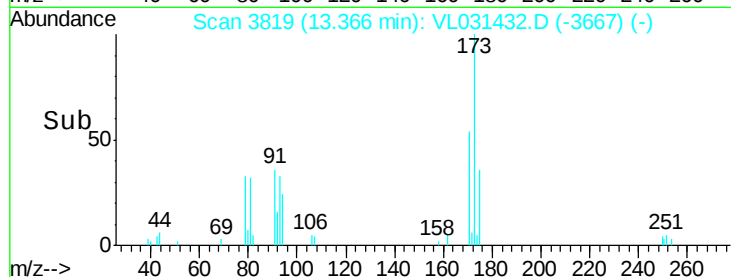
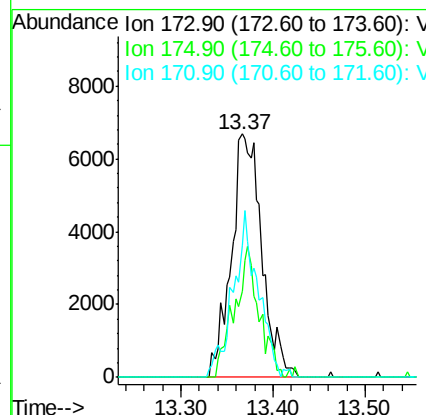
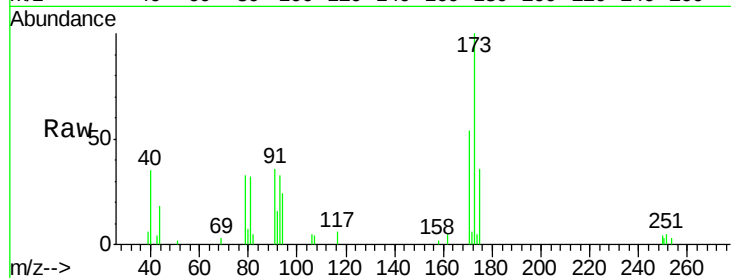
ClientSampleId :

MDL-AIR-7

Tot Ion:	173	Resp:	15381
Ion Ratio	Lower	Upper	
173	100		
175	44.2	39.0	58.4
171	56.5	42.0	63.0

Manual Integrations
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1/24/2018 5:10:32 PM



#50

4-Methyl-2-Pentanone

Concen: 0.08 ppbv m

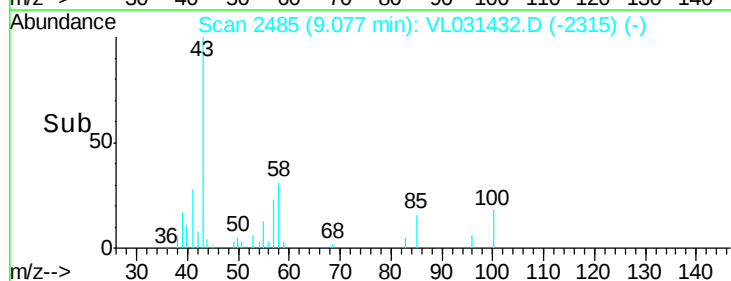
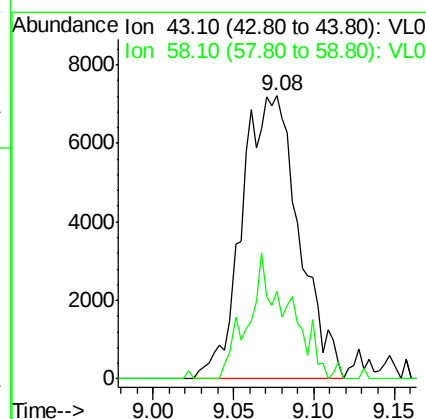
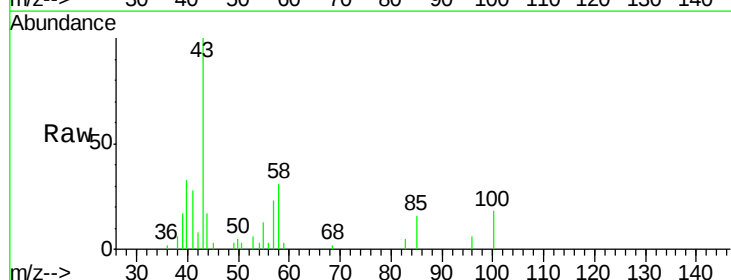
RT: 9.08 min Scan# 2485

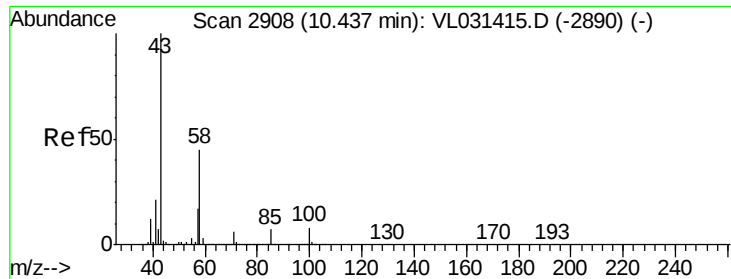
Delta R.T. 0.05 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Tgt Ion:	43	Resp:	17831
Ion Ratio	Lower	Upper	
43	100		
58	0.0	27.1	40.7#





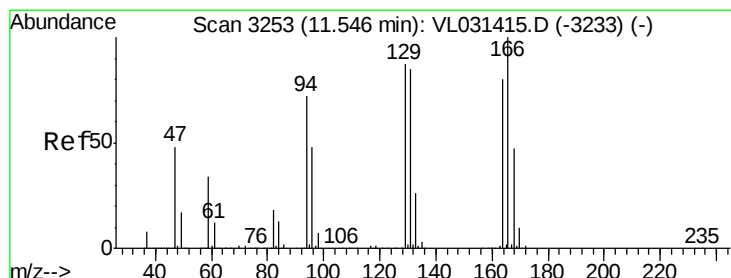
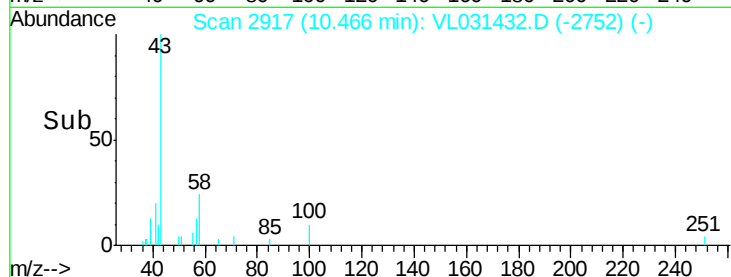
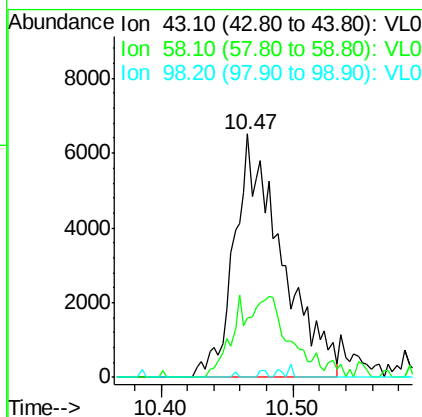
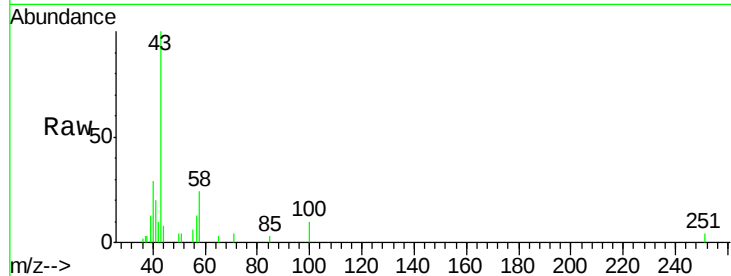
#51
2-Hexanone
Concen: 0.08 ppbv m
RT: 10.47 min Scan# 2917
Delta R.T. 0.03 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

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

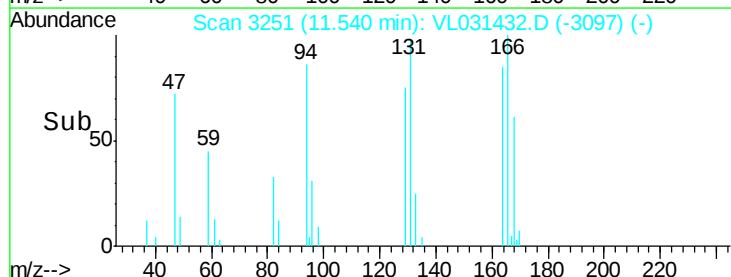
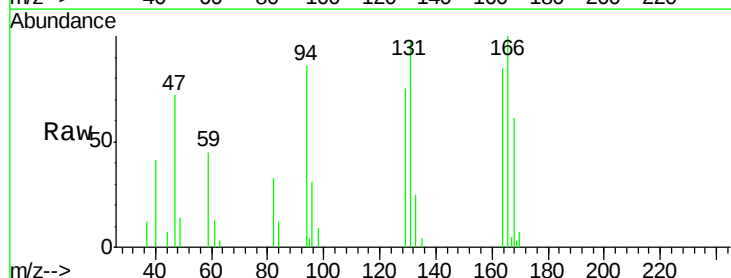
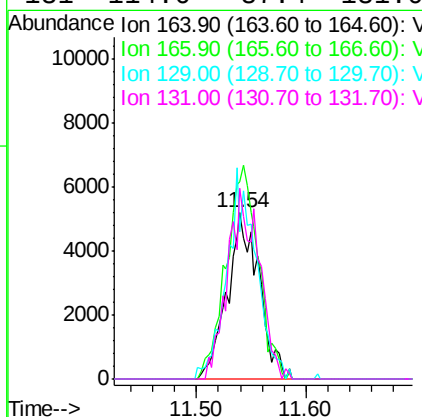
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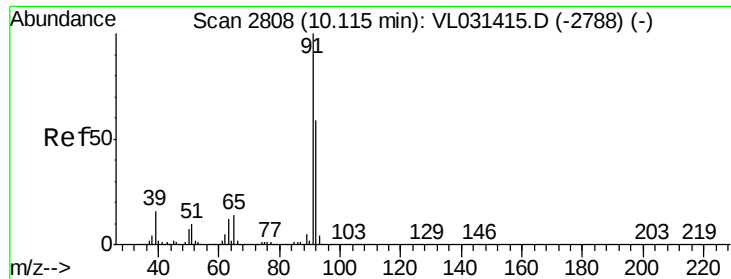
MMDadoda
1/24/2018 5:10:32 PM



#52
Tetrachloroethene
Concen: 0.12 ppbv m
RT: 11.54 min Scan# 3251
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.3	100.2	150.2
129	88.3	91.4	137.0#
131	114.6	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: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-7

Tot Ion: 91 Resp: 23653

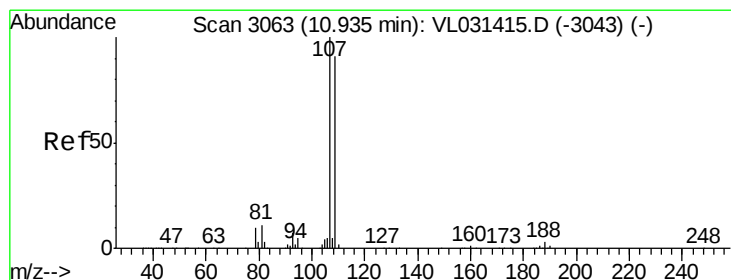
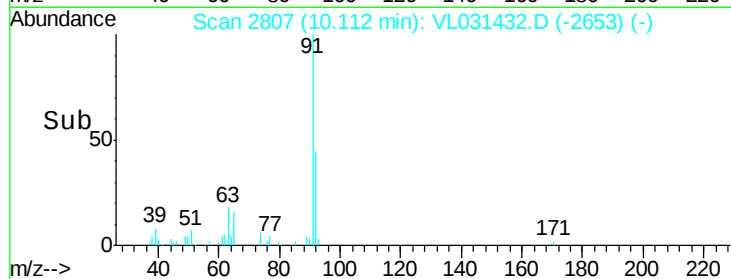
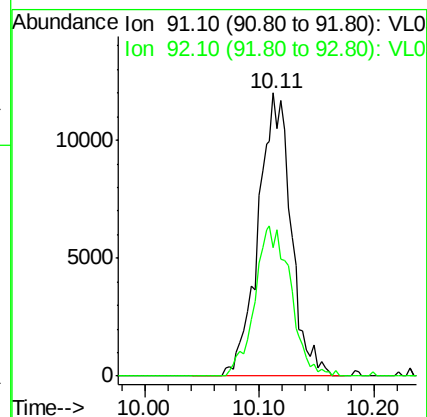
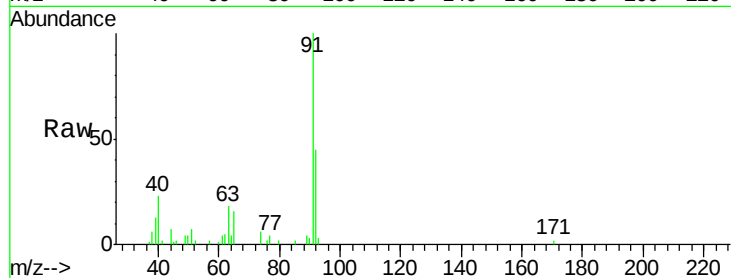
Ion Ratio Lower Upper

91 100

92 58.0 47.8 71.6

Manual Integrations
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1/24/2018 5:10:32 PM



#54

1,2-Dibromoethane

Concen: 0.10 ppbv

RT: 10.93 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VL031432.D

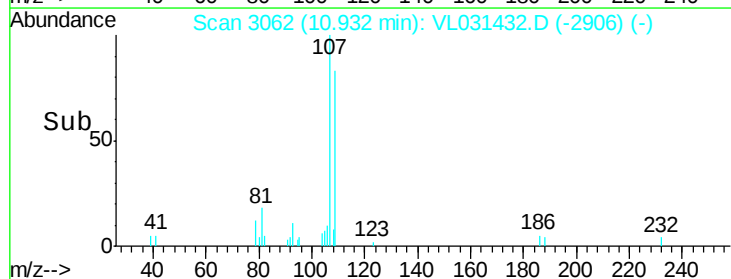
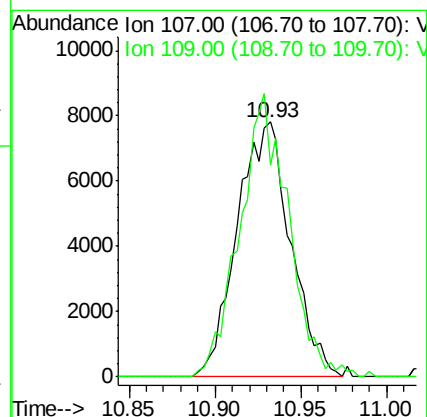
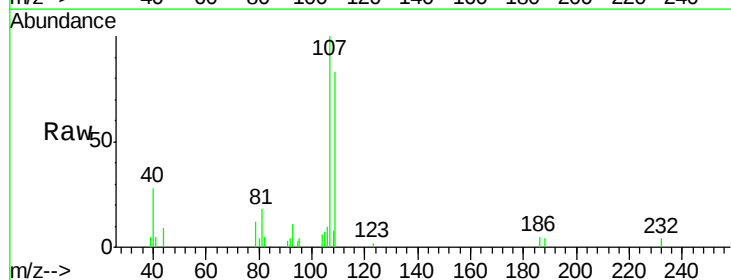
Acq: 23 Jan 2018 1:28

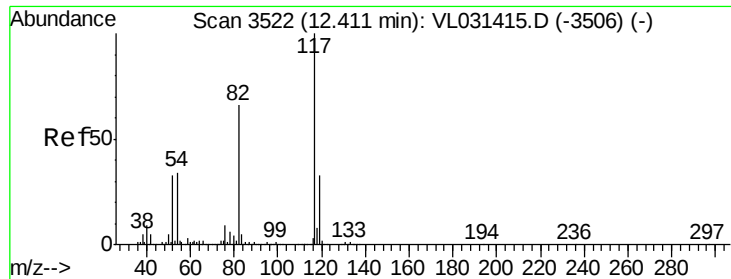
Tgt Ion: 107 Resp: 16886

Ion Ratio Lower Upper

107 100

109 82.8 75.5 113.3





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-7

Tot Ion:117 Resp: 2620556

Ion Ratio Lower Upper

117 100

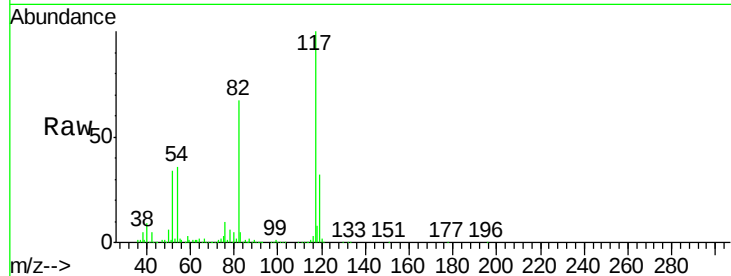
82 68.3 51.8 77.6

119 32.9 24.2 36.2

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MMDadoda

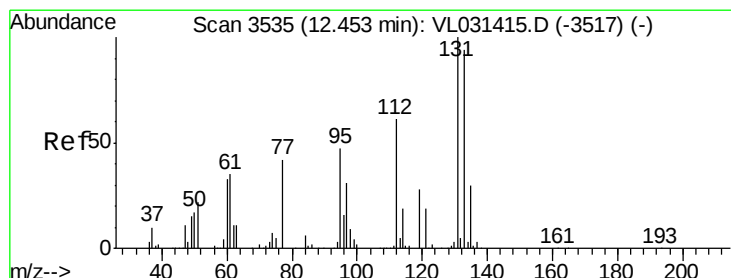
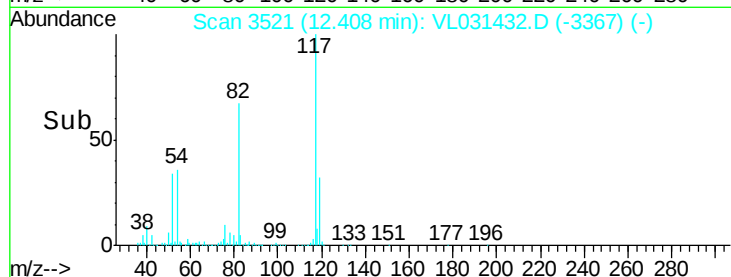
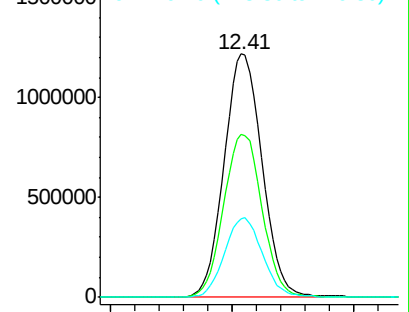
1/24/2018 5:10:32 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.14 ppbv m

RT: 12.44 min Scan# 3532

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

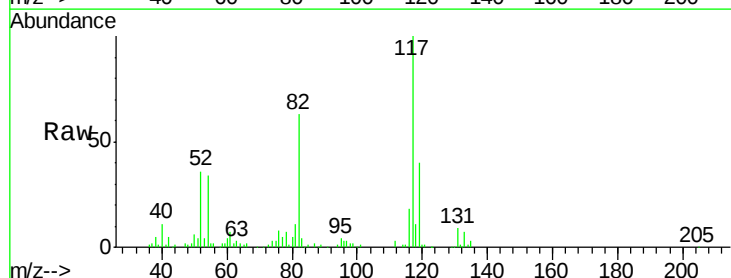
Tgt Ion:131 Resp: 16949

Ion Ratio Lower Upper

131 100

133 0.0 76.9 115.3#

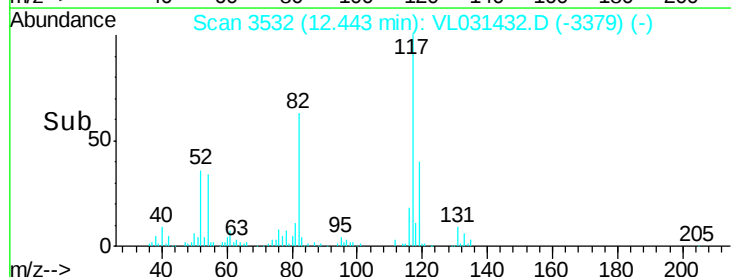
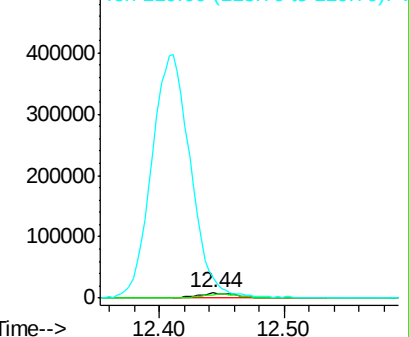
119 0.0 47.7 71.5#

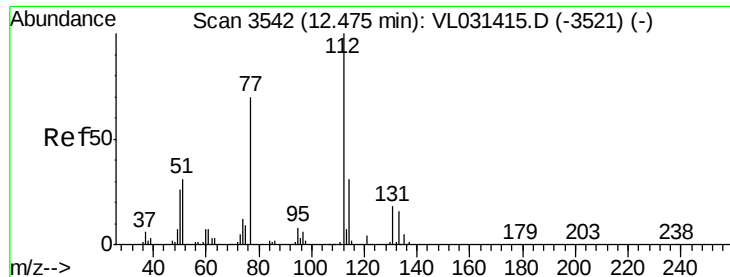


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





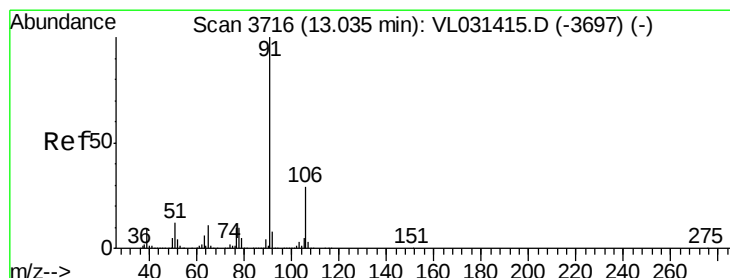
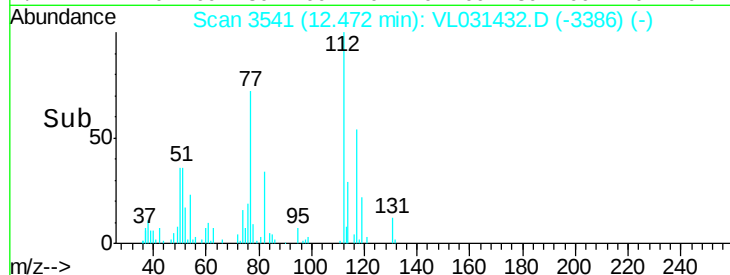
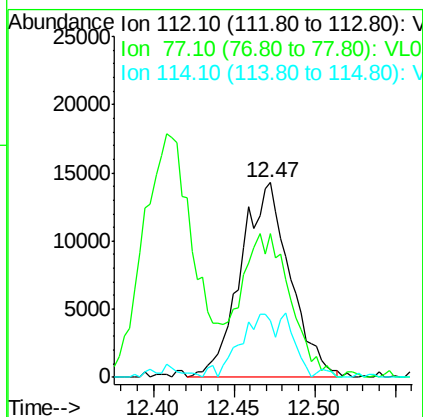
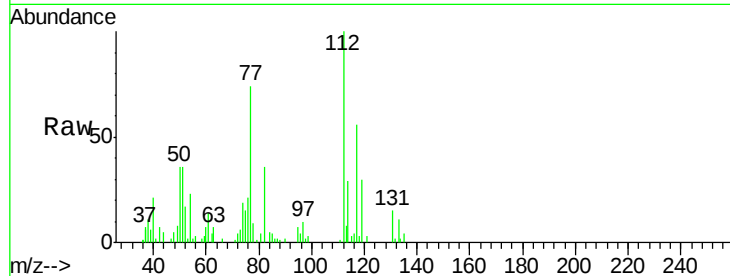
#57
Chlorobenzene
Concen: 0.13 ppbv m
RT: 12.47 min Scan# 3541
Delta R.T. -0.00 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
112	100		
77	74.0	56.0	84.0
114	29.3	29.1	35.5

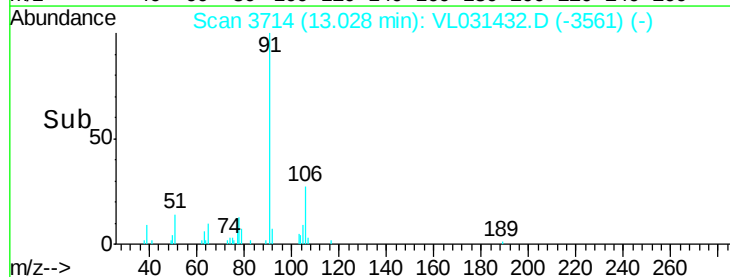
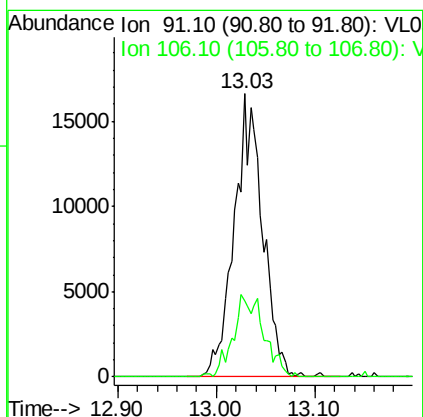
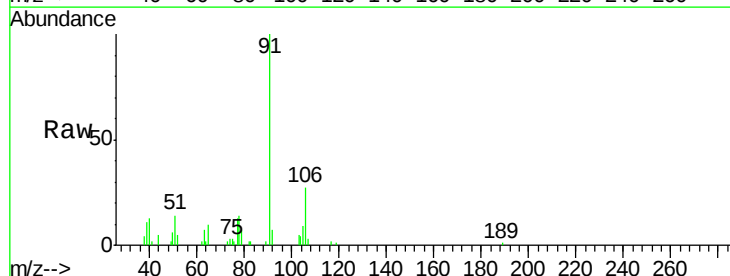
Manual Integrations
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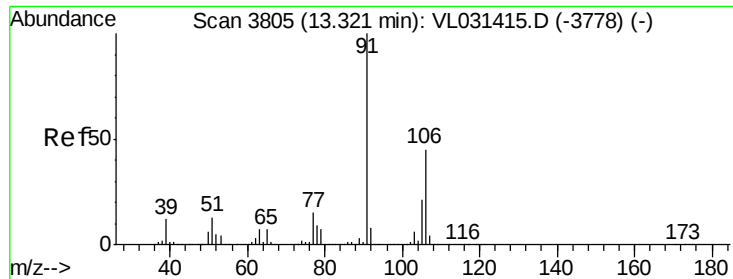
MMDadoda
1/24/2018 5:10:32 PM



#58
Ethyl Benzene
Concen: 0.09 ppbv m
RT: 13.03 min Scan# 3714
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.9	23.8	35.6





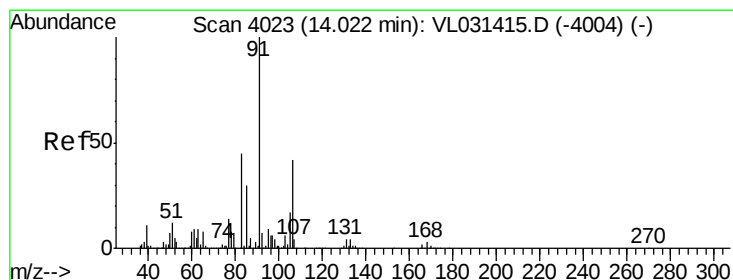
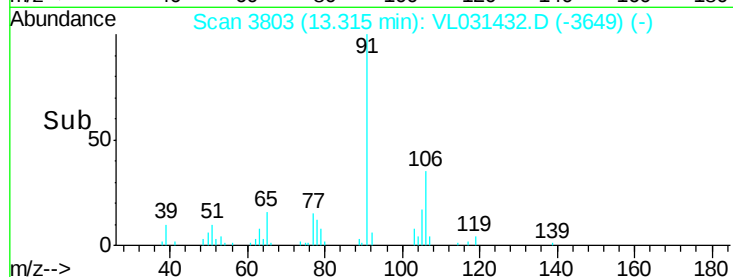
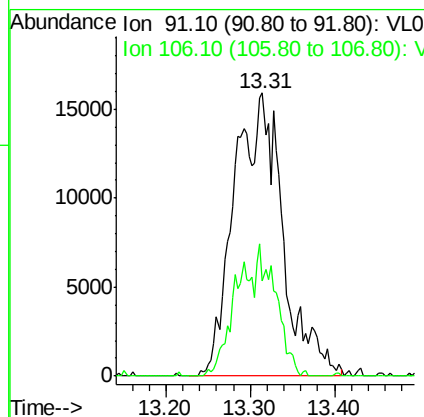
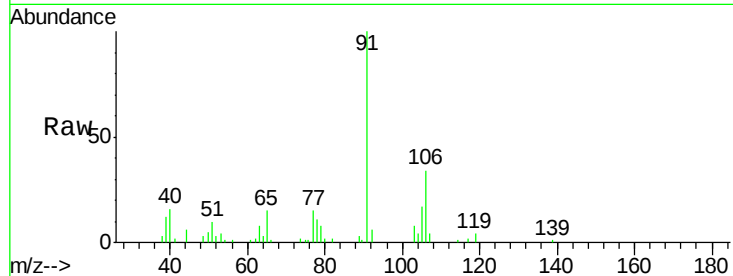
#59
m/p-Xylene
Concen: 0.19 ppbv m
RT: 13.31 min Scan# 3803
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion: 91 Resp: 63662
Ion Ratio Lower Upper
91 100
106 36.8 35.6 53.4

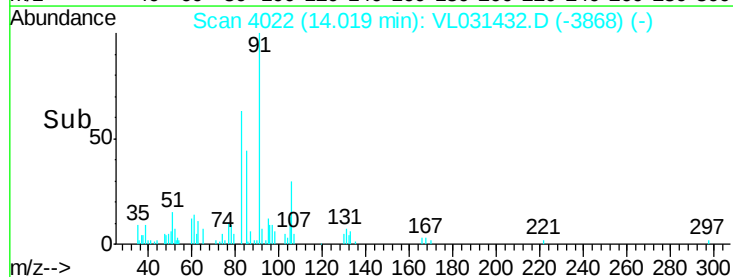
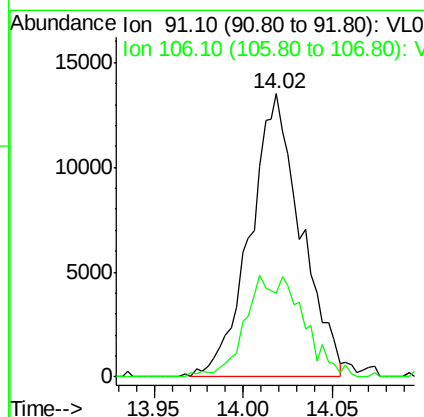
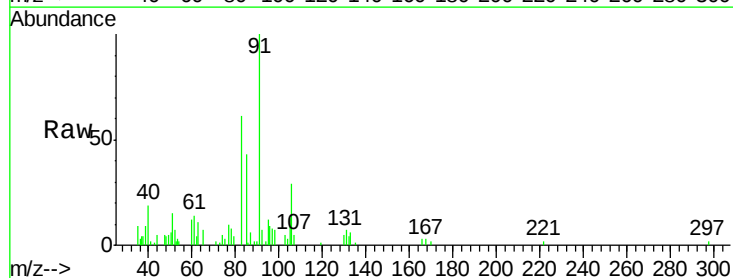
Manual Integrations
APPROVED

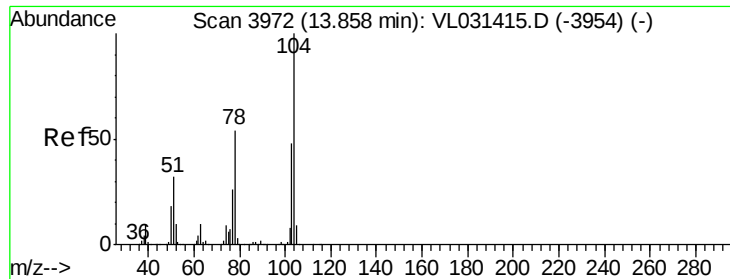
MMDadoda
1/24/2018 5:10:32 PM



#60
o-Xylene
Concen: 0.08 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion: 91 Resp: 26952
Ion Ratio Lower Upper
91 100
106 40.6 21.3 64.0





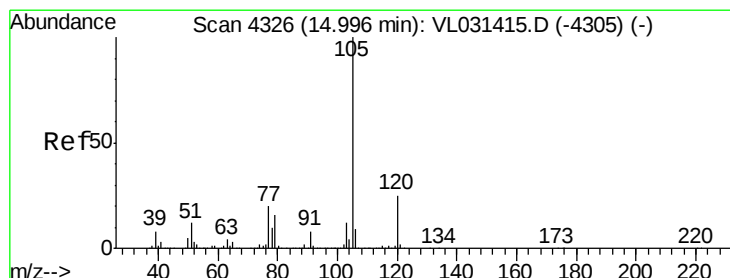
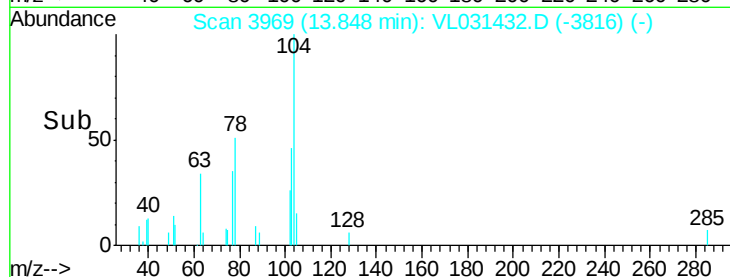
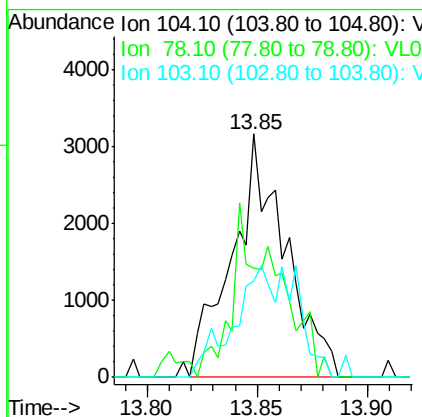
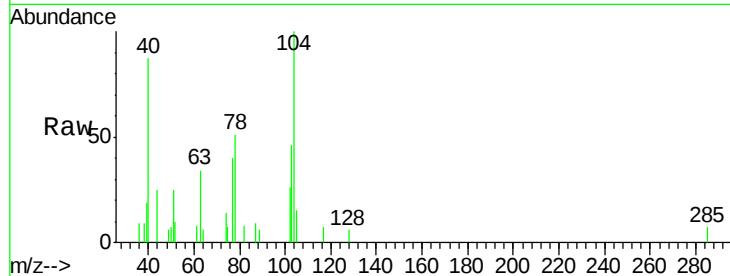
#61
Stvrene
Concen: 0.07 ppbv m
RT: 13.85 min Scan# 3969
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	45.4	68.0#
103	0.0	38.6	57.8#

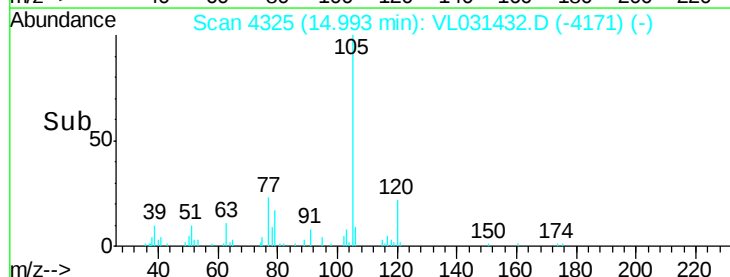
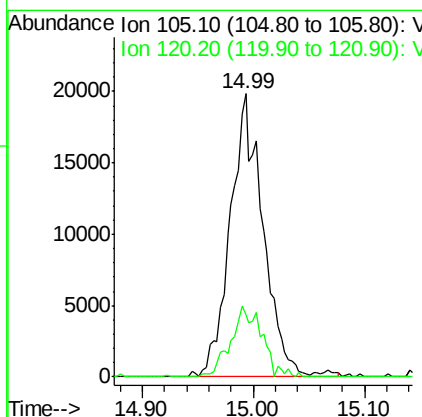
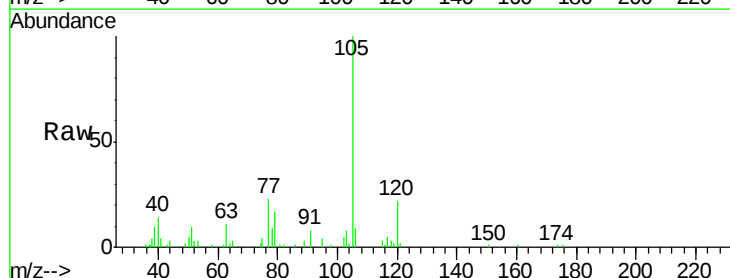
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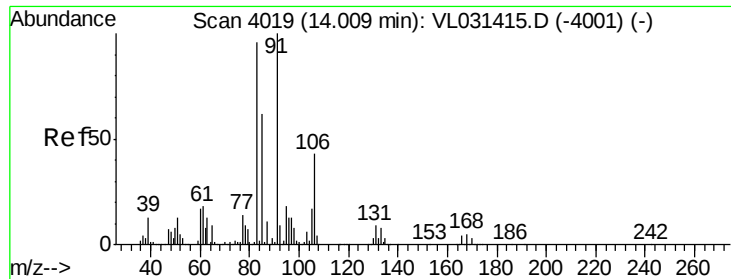
MMDadoda
1/24/2018 5:10:32 PM



#62
Isopropylbenzene
Concen: 0.10 ppbv m
RT: 14.99 min Scan# 4325
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.8	19.9	29.9





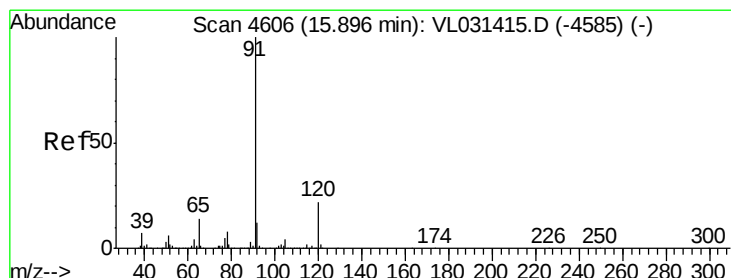
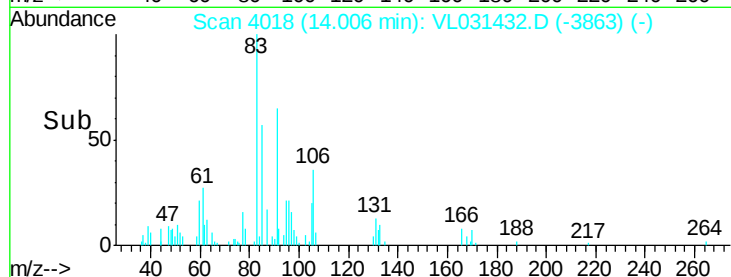
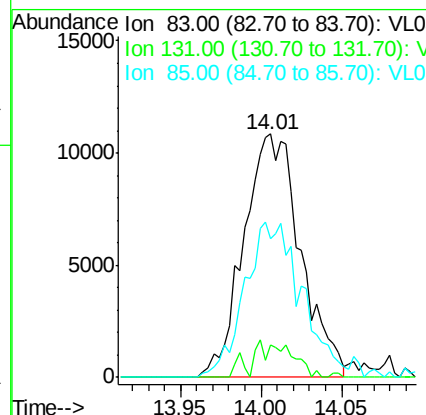
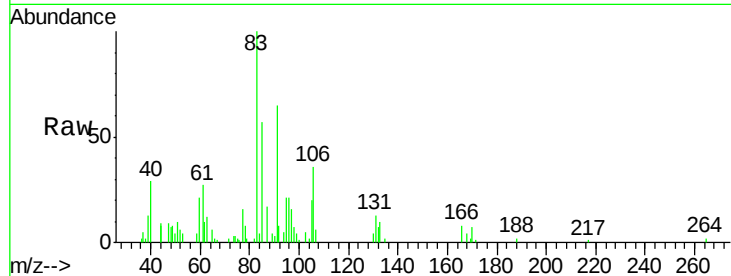
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.12 ppbv m
 RT: 14.01 min Scan# 4018
 Delta R.T. -0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.8	14.3
85	66.5	32.4	97.0

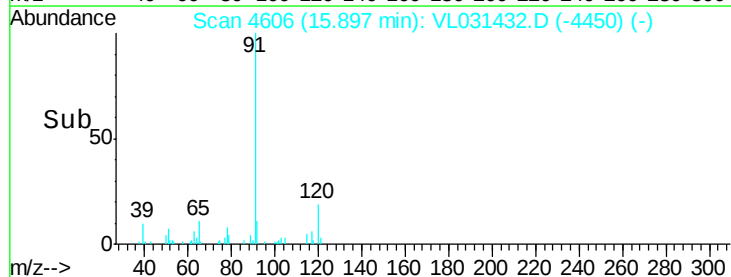
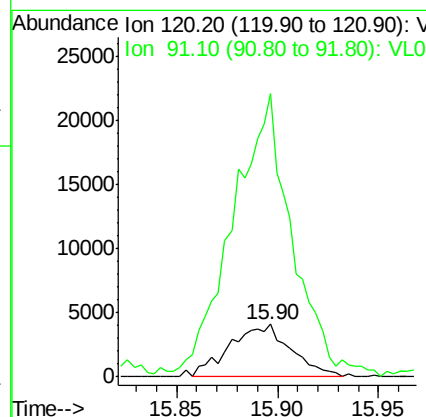
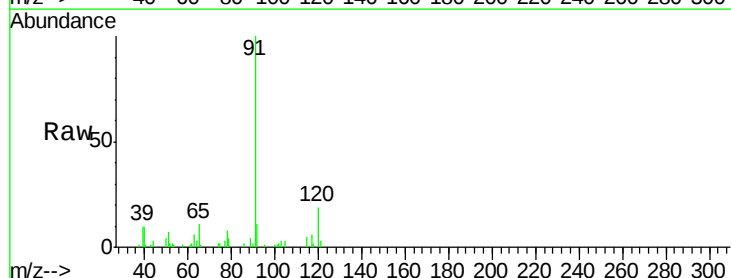
Manual Integrations
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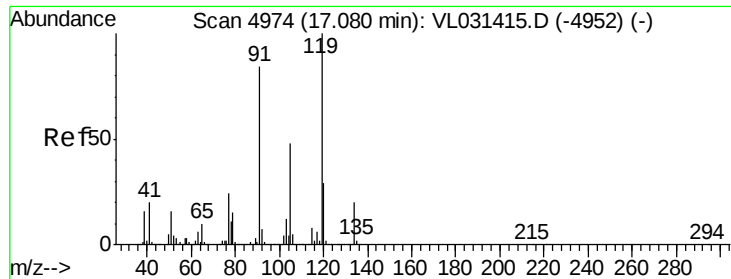
MMDadoda
 1/24/2018 5:10:32 PM



#64
 n-propylbenzene
 Concen: 0.08 ppbv m
 RT: 15.90 min Scan# 4606
 Delta R.T. 0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
120	100		
91	56.6	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: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

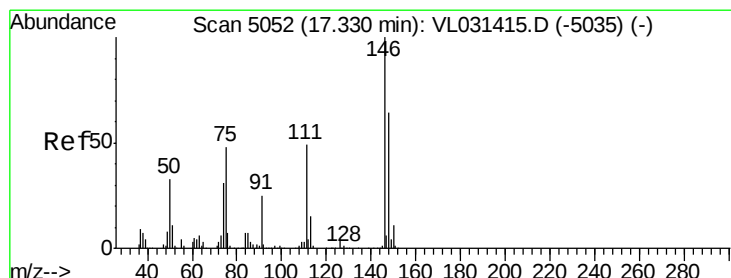
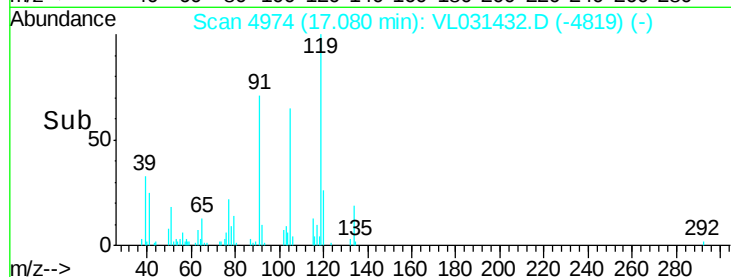
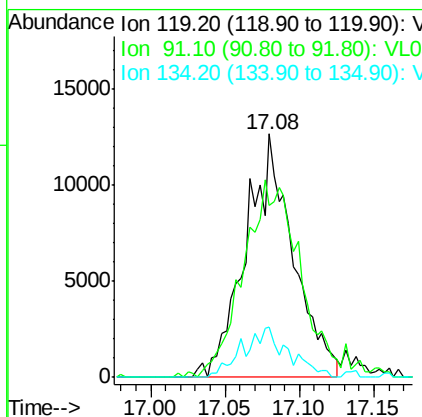
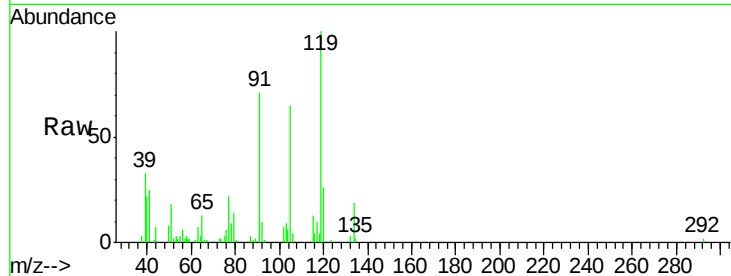
ClientSampleId :

MDL-AIR-7

Tot Ion:	119	Resp:	28165
Ion Ratio	Lower	Upper	
119	100		
91	100.0	69.0	103.6
134	20.2	15.7	23.5

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:32 PM



#66

Benzyl Chloride

Concen: 0.09 ppbv m

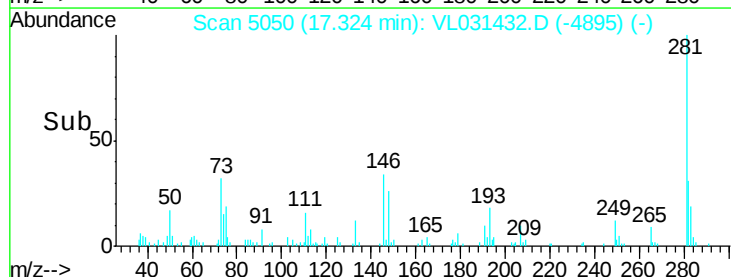
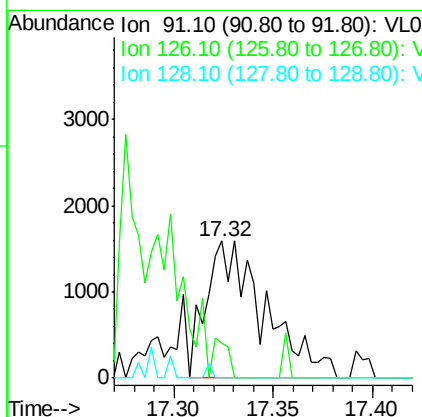
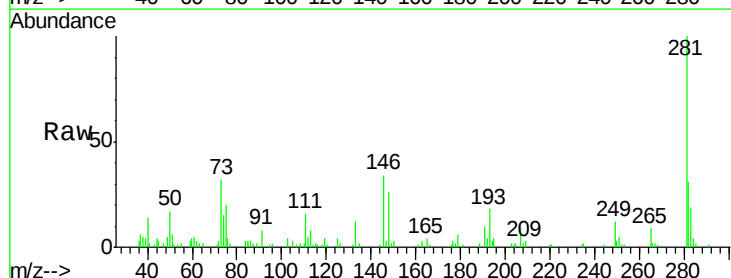
RT: 17.32 min Scan# 5050

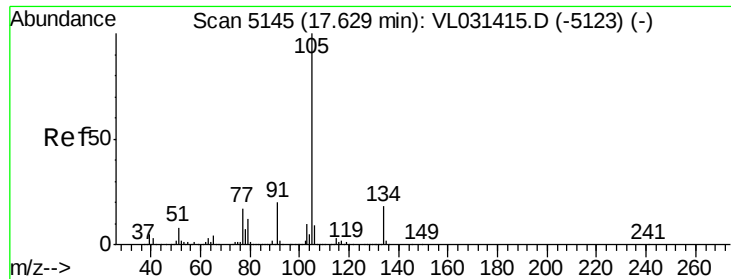
Delta R.T. -0.00 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Tgt Ion:	91	Resp:	3225
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: 17.62 min Scan# 5143

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-7

Tot Ion: 105 Resp: 44895

Ion Ratio Lower Upper

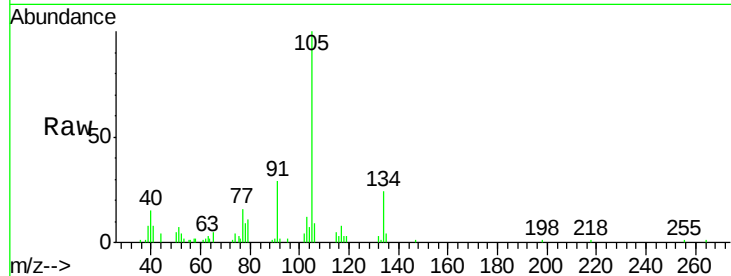
105 100

134 0.0 14.5 21.7#

Manual Integrations
APPROVED

MMDadoda

1/24/2018 5:10:32 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

20000

15000

10000

5000

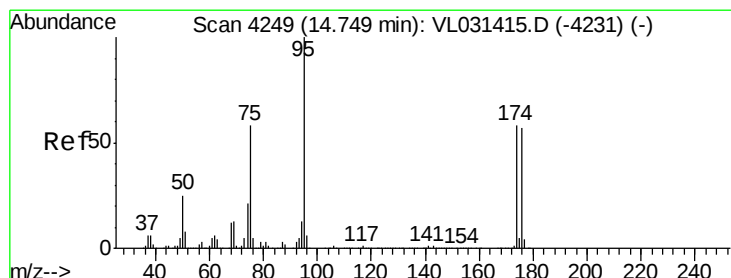
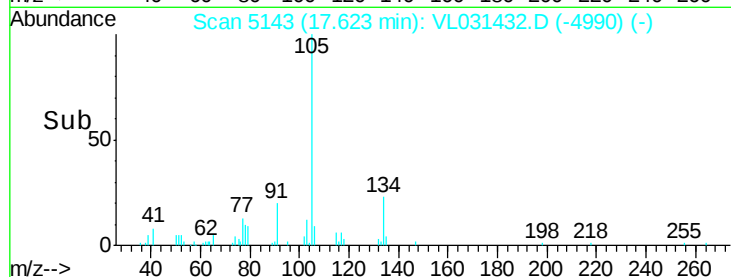
0

17.62

17.60

17.70

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.38 ppbv

RT: 14.75 min Scan# 4249

Delta R.T. 0.00 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

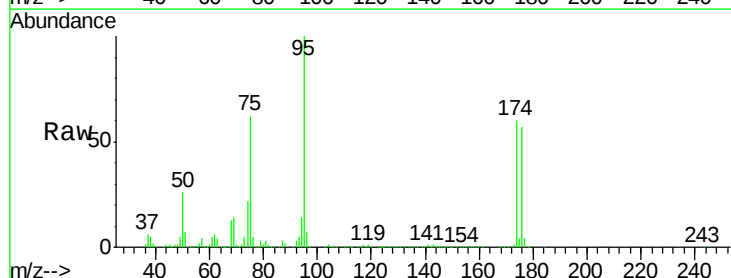
Tgt Ion: 95 Resp: 2178676

Ion Ratio Lower Upper

95 100

174 60.7 48.2 72.4

175 4.7 3.6 5.4



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1200000

1000000

800000

600000

400000

200000

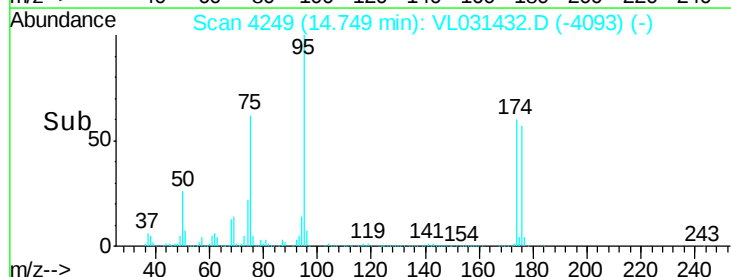
0

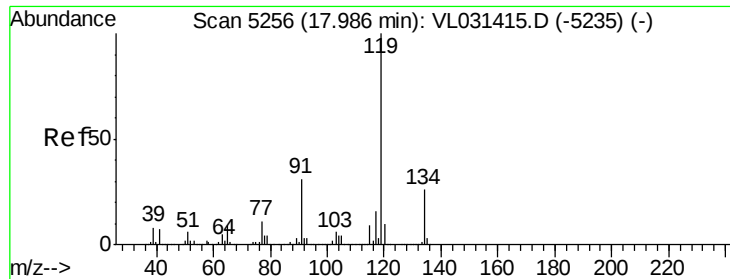
14.75

14.70

14.80

Time-->





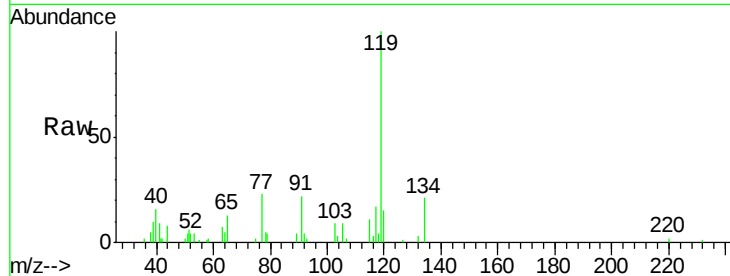
#69
 p-Isopropyltoluene
 Concen: 0.08 ppbv m
 RT: 17.98 min Scan# 5253
 Delta R.T. -0.01 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

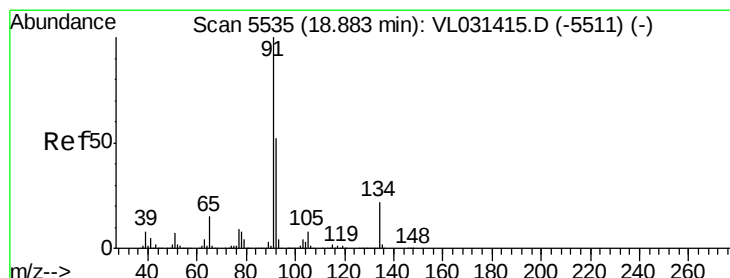
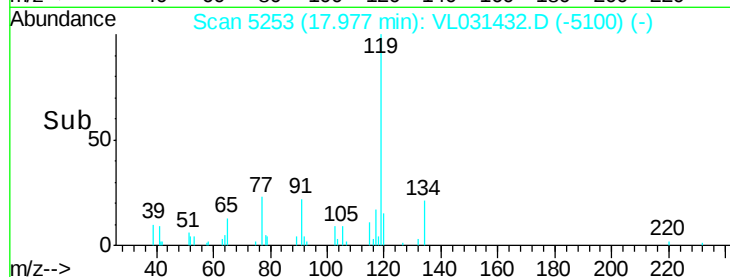
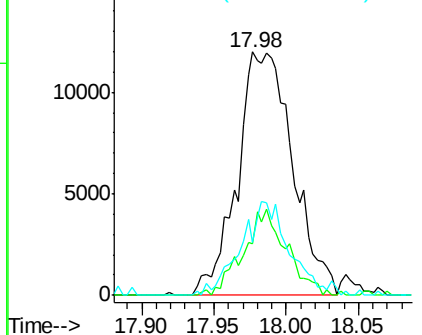
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.2	30.4#
91	0.0	25.0	37.4#

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:32 PM

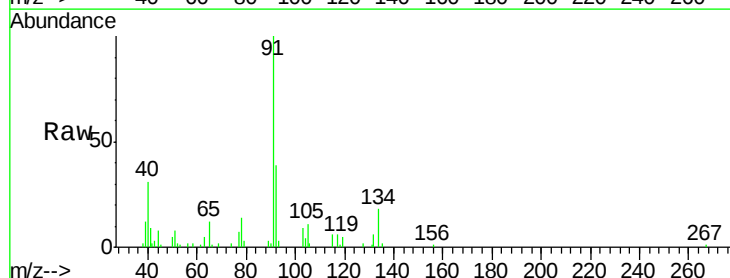


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

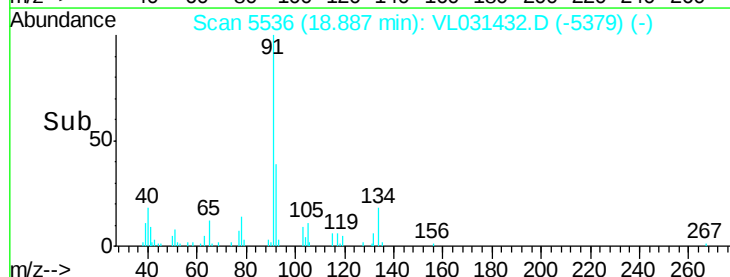
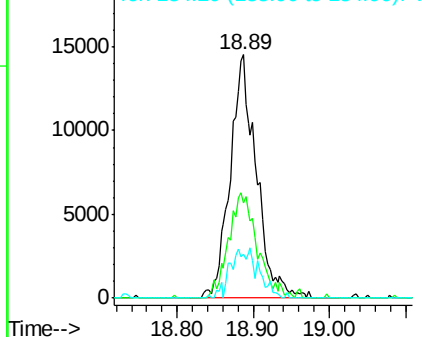


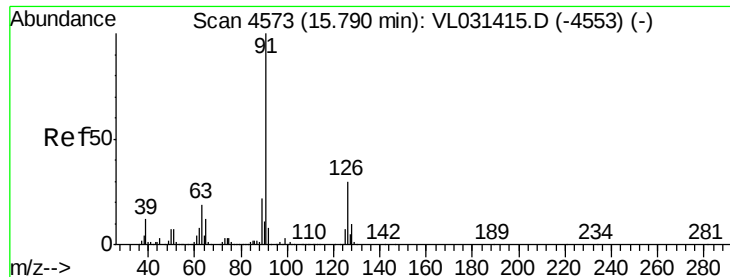
#70
 n-Butylbenzene
 Concen: 0.08 ppbv m
 RT: 18.89 min Scan# 5536
 Delta R.T. 0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	48.0	42.2	63.4
134	0.0	17.4	26.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





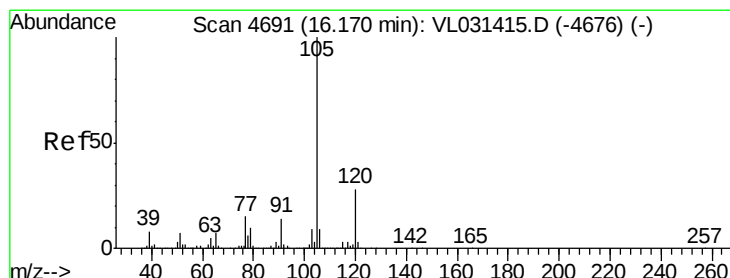
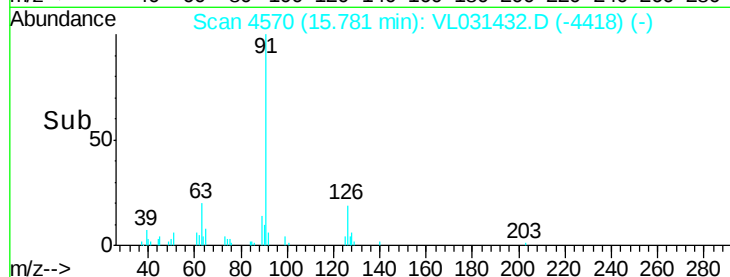
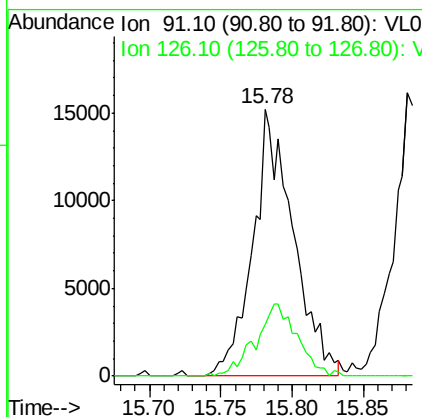
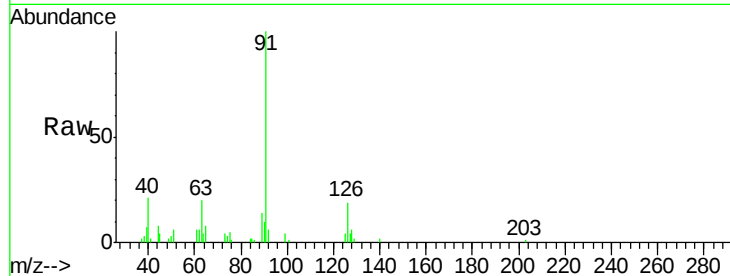
#71
2-Chlorotoluene
Concen: 0.10 ppbv m
RT: 15.78 min Scan# 4570
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
91	100		
126	28.0	11.7	46.9

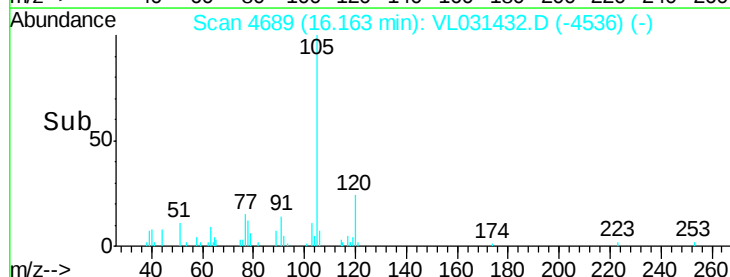
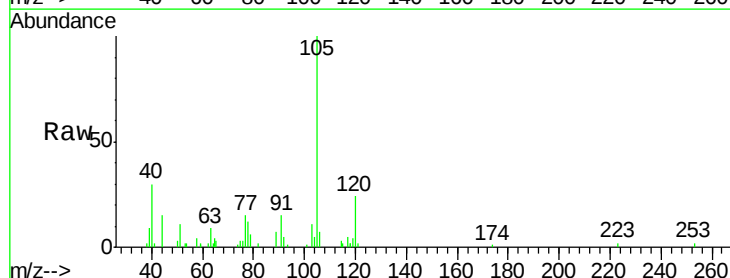
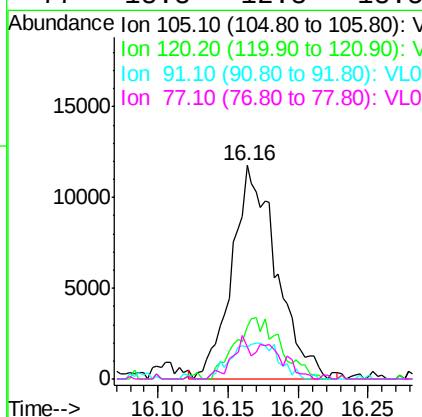
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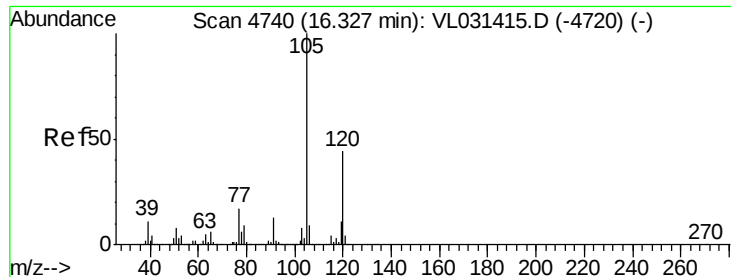
MMDadoda
1/24/2018 5:10:32 PM



#72
4-Ethyltoluene
Concen: 0.08 ppbv m
RT: 16.16 min Scan# 4689
Delta R.T. -0.01 min
Lab File: VL031432.D
Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.0	34.6#
91	0.0	11.0	16.4#
77	18.8	12.3	18.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.09 ppbv m

RT: 16.32 min Scan# 4738

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-7

Tot Ion:105 Resp: 26172

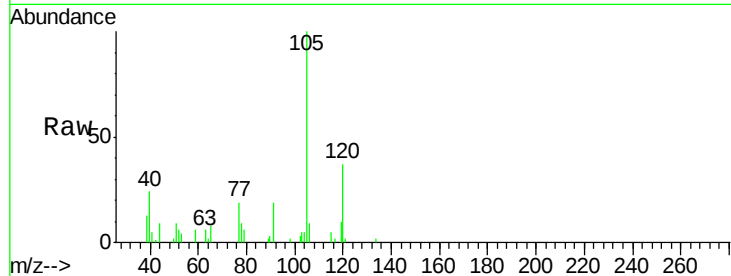
Ion Ratio Lower Upper

105 100

120 36.6 35.8 53.6

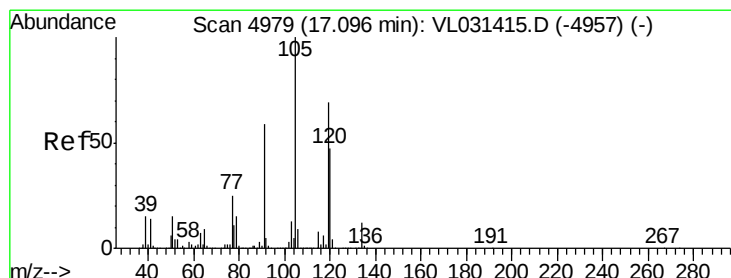
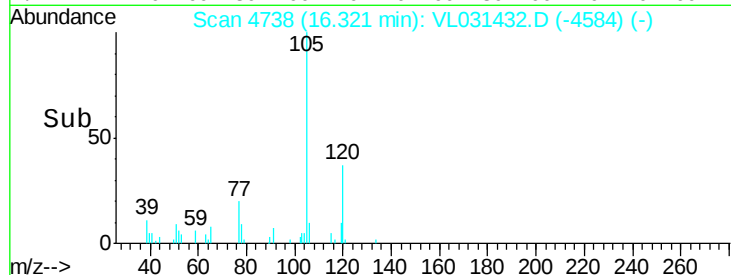
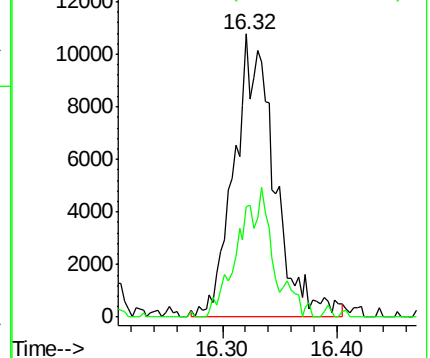
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1/24/2018 5:10:32 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.09 ppbv m

RT: 17.09 min Scan# 4978

Delta R.T. -0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Tgt Ion:105 Resp: 28523

Ion Ratio Lower Upper

105 100

120 33.0 37.0 55.6#

91 64.4 35.1 52.7#

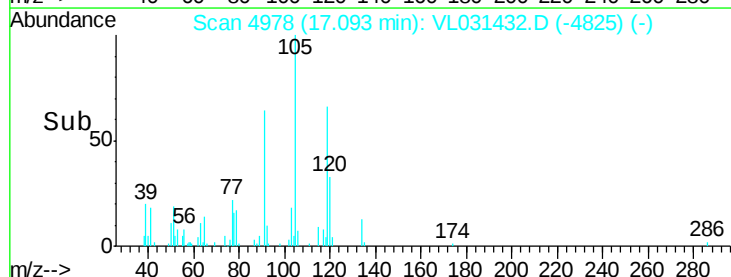
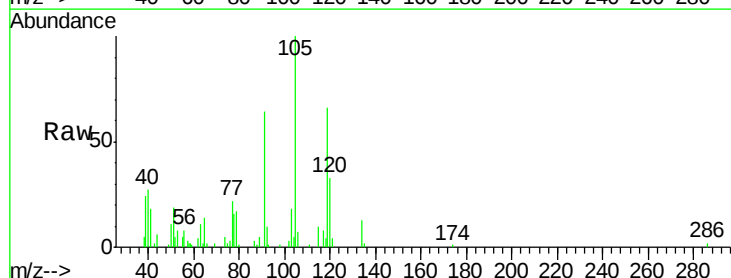
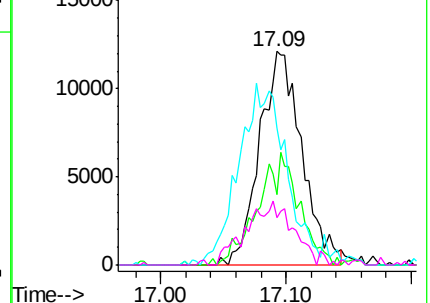
77 22.1 17.9 26.9

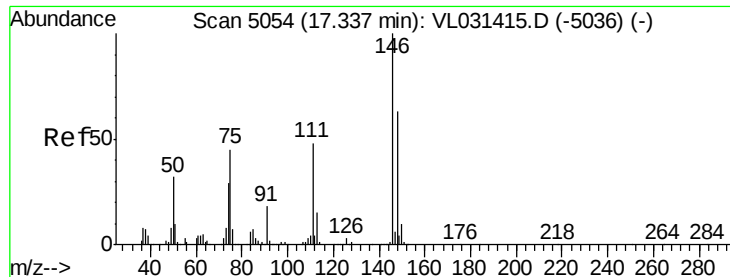
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 0.14 ppbv m

RT: 17.34 min Scan# 5055

Delta R.T. 0.00 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

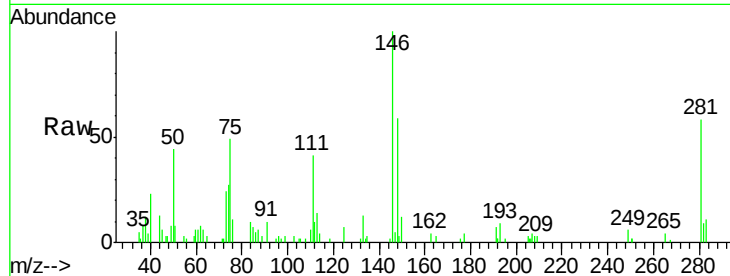
ClientSampleId :

MDL-AIR-7

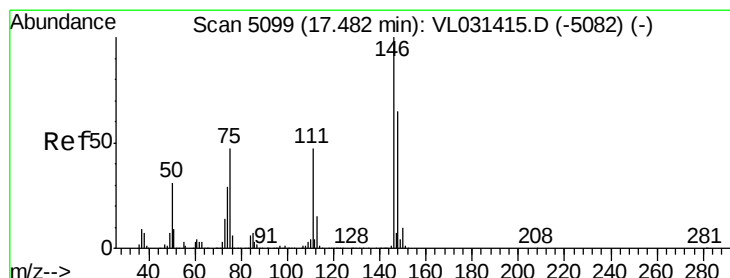
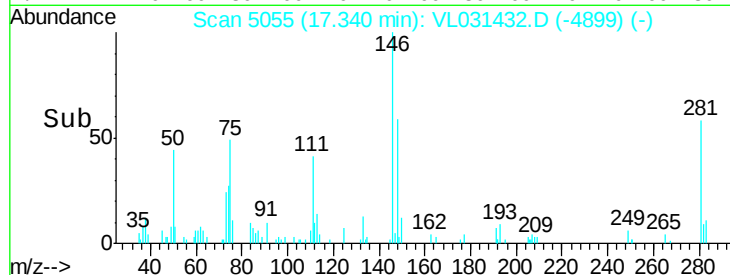
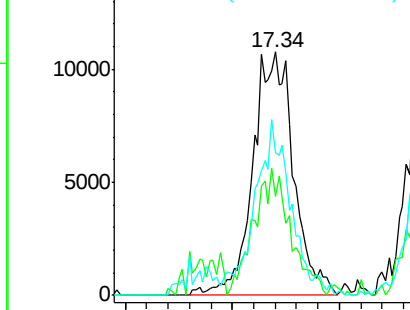
Tot Ion:	146	Resp:	28130
Ion Ratio	Lower	Upper	
146	100		
111	0.0	24.2	72.6#
148	0.0	32.1	96.3#

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1/24/2018 5:10:32 PM



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

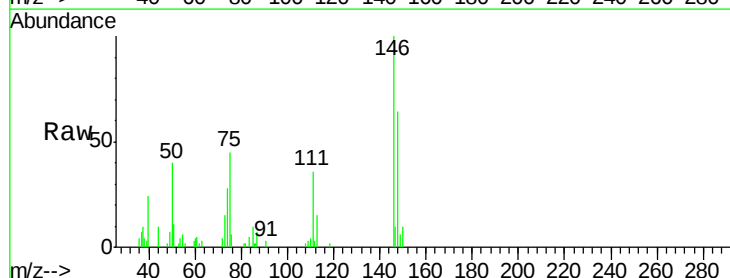
RT: 17.48 min Scan# 5099

Delta R.T. -0.00 min

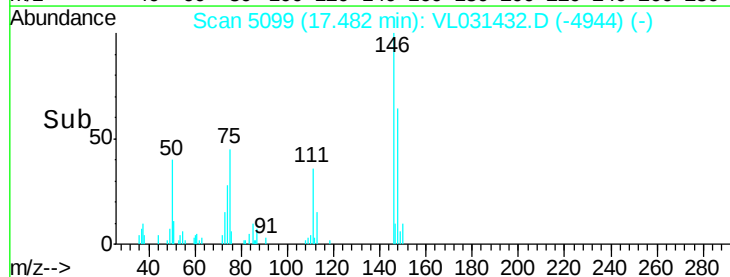
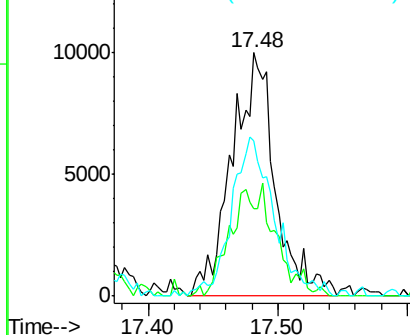
Lab File: VL031432.D

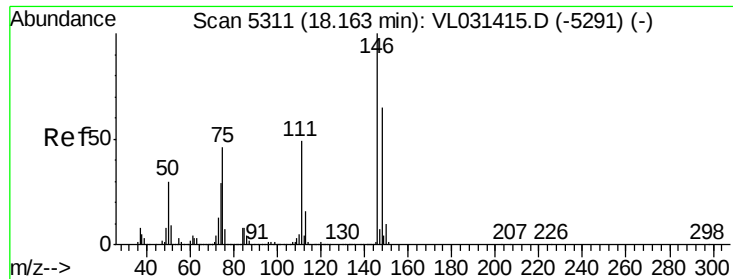
Acq: 23 Jan 2018 1:28

Tgt Ion:	146	Resp:	23248
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.3	69.9#
148	65.7	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





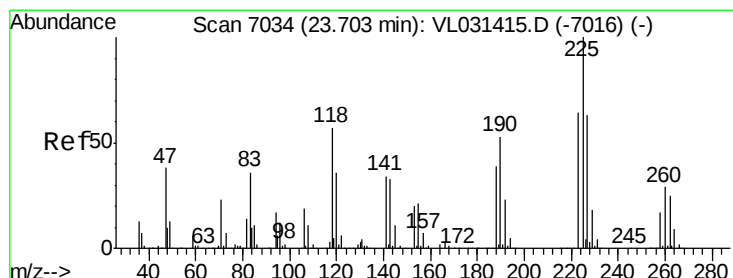
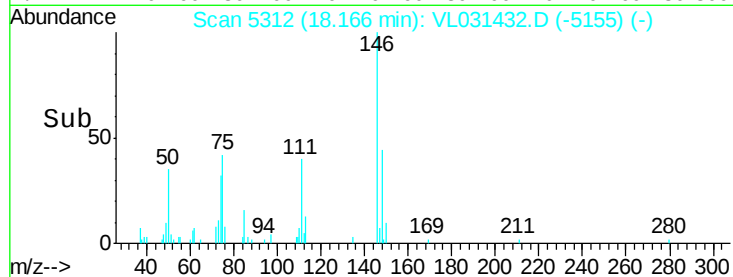
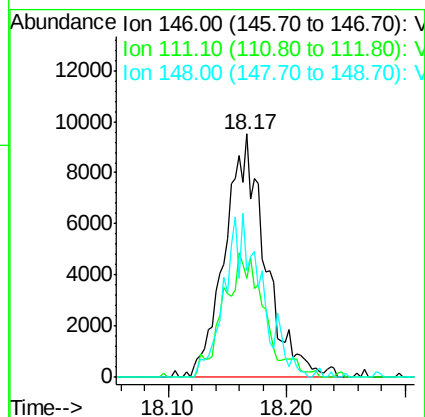
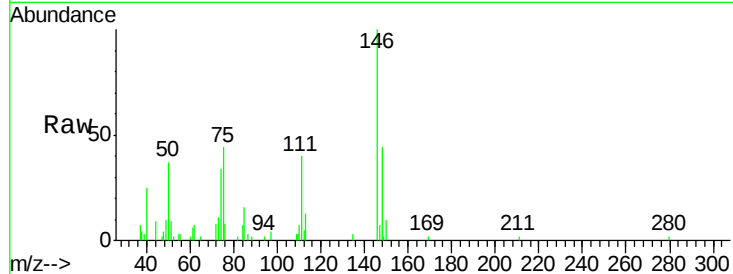
#77
 1,2-Dichlorobenzene
 Concen: 0.11 ppbv m
 RT: 18.17 min Scan# 5312
 Delta R.T. 0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-7

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.7	24.6	74.0
148	0.0	32.3	96.8#

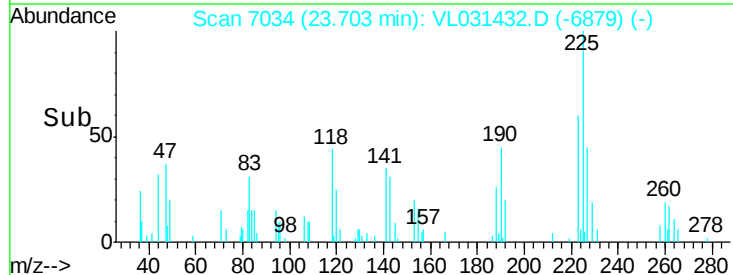
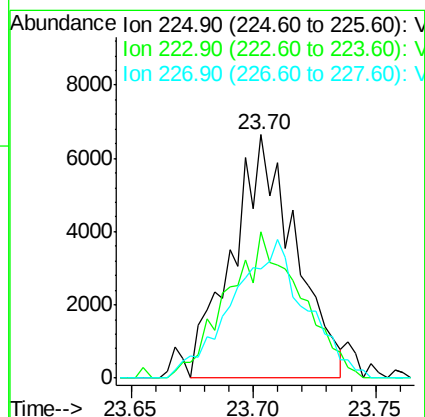
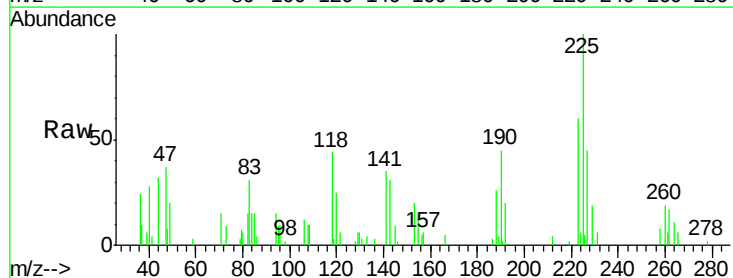
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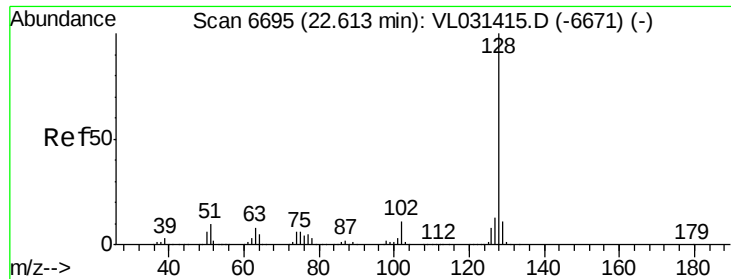
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 1/24/2018 5:10:32 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.17 ppbv
 RT: 23.70 min Scan# 7034
 Delta R.T. -0.00 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	70.0	51.3	76.9
227	66.4	50.7	76.1





#79

Naphthalene

Concen: 0.07 ppbv m

RT: 22.62 min Scan# 6698

Delta R.T. 0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Instrument :

MSVOA_L

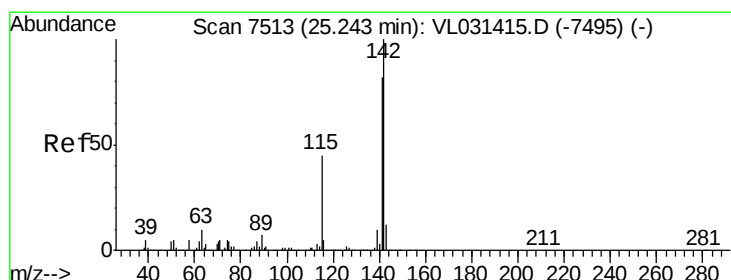
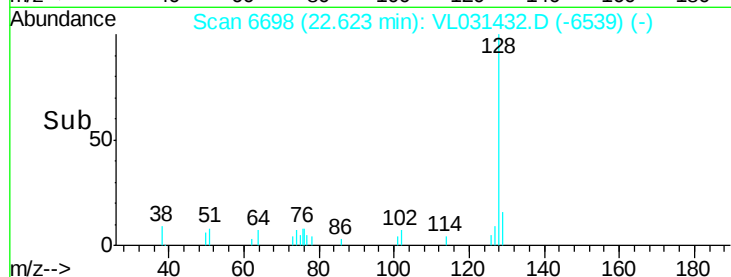
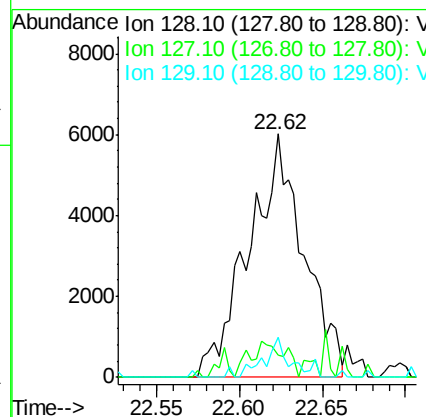
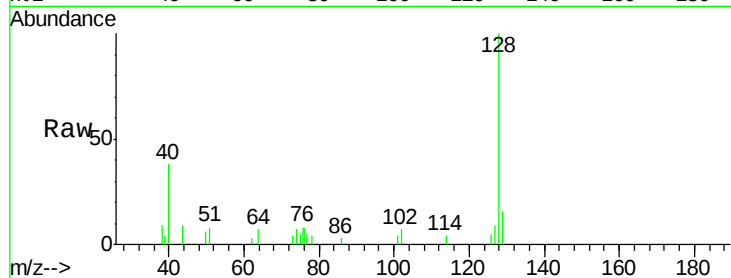
ClientSampled :

MDL-AIR-7

Tot Ion:	128	Resp:	13802
Ion Ratio	Lower	Upper	
128	100		
127	9.1	10.6	16.0#
129	16.2	9.2	13.8#

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1/24/2018 5:10:32 PM



#80

Naphthalene, 2-methyl-

Concen: 0.05 ppbv

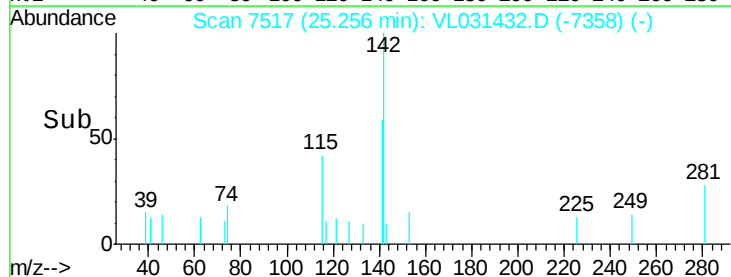
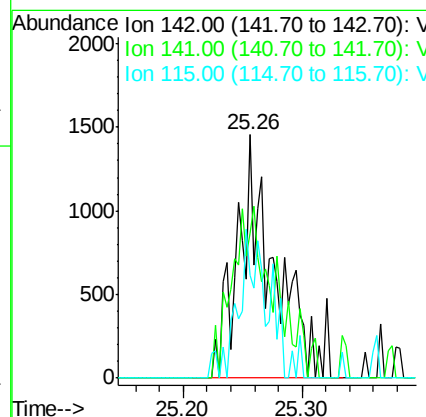
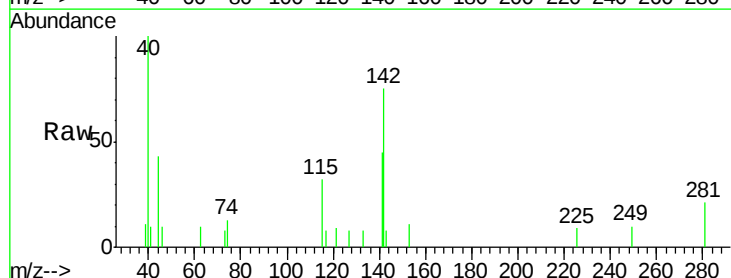
RT: 25.26 min Scan# 7517

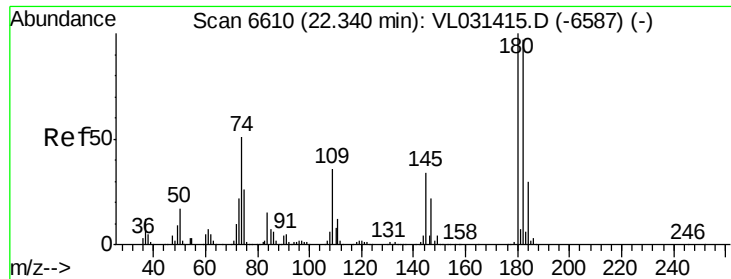
Delta R.T. 0.01 min

Lab File: VL031432.D

Acq: 23 Jan 2018 1:28

Tgt Ion:	142	Resp:	3078
Ion Ratio	Lower	Upper	
142	100		
141	81.9	68.7	103.1
115	48.7	36.3	54.5





#81
 1,2,4-Trichlorobenzene
 Concen: 0.10 ppbv m
 RT: 22.35 min Scan# 6614
 Delta R.T. 0.01 min
 Lab File: VL031432.D
 Acq: 23 Jan 2018 1:28

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

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

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 1/24/2018 5:10:32 PM

