

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026661.D
 Acq On : 9 Jan 2016 5:09
 Operator : SY/AP
 Sample : H1002-17
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Manual Integrations
 APPROVED

MMdadoda
 1/14/2016 10:51:17 AM

Quant Time: Jan 12 05:16:15 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	675113	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2139698	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2885040	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	2367031	10.29	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	89813	0.50	ppbv	98
3) Chlorodifluoromethane	3.57	51	42288	0.47	ppbv	98
4) Chloromethane	3.75	50	17961	0.41	ppbv	93
5) Vinyl Chloride	3.88	62	19753	0.37	ppbv #	83
6) Bromomethane	4.14	94	14957	0.39	ppbv	86
7) Chloroethane	4.24	64	9250	0.43	ppbv	95
8) Dichlorotetrafluoroethane	3.79	85	65872	0.47	ppbv	98
9) Propene	3.59	41	11115	0.34	ppbv	88
10) Heptane	9.34	43	42980	0.36	ppbv	89
11) Trichlorofluoromethane	4.68	101	97964	0.53	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	5.29	101	55167	0.48	ppbv	97
13) Ethanol	4.35	45	2077	0.34	ppbv	88
14) Bromoethene	4.45	108	16763	0.41	ppbv	88
15) Acetone	4.62	43	63541m	0.57	ppbv	
16) 1,3-Butadiene	3.96	39	18345	0.41	ppbv	92
17) tert-Butyl alcohol	5.15	59	34041m	0.41	ppbv	
18) 1,1-Dichloroethene	5.07	96	21773	0.46	ppbv #	84
19) Isopropyl Alcohol	4.78	45	17007	0.37	ppbv #	96
20) Methylene Chloride	5.14	84	23532m	0.52	ppbv	
21) Allyl Chloride	5.21	41	26261	0.39	ppbv #	68
22) trans-1,2-Dichloroethene	5.76	96	23833	0.44	ppbv	85
23) Vinyl Acetate	5.98	43	59798	0.35	ppbv	98
24) 1,1-Dichloroethane	5.90	63	51650	0.42	ppbv	95
25) Ethyl Acetate	6.68	43	42590m	0.25	ppbv	
26) Hexane	6.64	57	31761	0.36	ppbv	97
27) Carbon Disulfide	5.37	76	54717	0.42	ppbv #	85
28) Methyl tert-Butyl Ether	5.96	73	66694	0.38	ppbv	99
29) Chloroform	6.73	83	79489	0.49	ppbv	91
30) Cyclohexane	8.27	84	33996m	0.39	ppbv	
31) cis-1,2-Dichloroethene	6.50	61	32514	0.36	ppbv	87
32) 1,1,1-Trichloroethane	7.57	97	77866	0.43	ppbv	99
34) 2-Butanone	6.21	43	41192	0.36	ppbv	98
35) Carbon Tetrachloride	8.13	117	78105	0.41	ppbv	92
36) Benzene	8.01	78	73820	0.34	ppbv	95
37) 1,2-Dichloroethane	7.35	62	63119m	0.42	ppbv	
38) Trichloroethene	9.05	130	36972	0.38	ppbv	91
39) 1,2-Dichloropropane	8.80	63	30057	0.39	ppbv	88
40) 1,4-Dioxane	9.18	88	4290	0.25	ppbv #	1
41) Tetrahydrofuran	7.14	42	15011m	0.27	ppbv	
42) Bromodichloromethane	9.00	83	79769	0.41	ppbv #	91
43) Methyl Methacrylate	9.26	69	22912	0.28	ppbv	95

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 1/14/2016 10:51:17 AM

Quant Time: Jan 12 05:16:15 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 18
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	121720	0.34	ppbv	98
45) t-1,3-Dichloropropene	10.63	75	35665	0.27	ppbv	97
46) cis-1,3-Dichloropropene	10.00	75	42195	0.28	ppbv #	91
47) 1,1,2-Trichloroethane	10.86	97	43215	0.40	ppbv	98
48) Dibromochloromethane	11.77	129	64149	0.39	ppbv	99
49) Bromoform	14.79	173	52066	0.39	ppbv	97
50) 4-Methyl-2-Pentanone	10.09	43	44410	0.28	ppbv	97
51) 2-Hexanone	11.62	43	36523	0.25	ppbv #	95
52) Tetrachloroethene	12.77	164	42893	0.39	ppbv	95
53) Toluene	11.21	91	100491	0.32	ppbv	95
54) 1,2-Dibromoethane	12.12	107	69819	0.41	ppbv	94
56) 1,1,1,2-Tetrachloroethane	13.76	131	56643	0.43	ppbv #	1
57) Chlorobenzene	13.79	112	142496	0.48	ppbv	91
58) Ethyl Benzene	14.39	91	166396	0.32	ppbv	98
59) m/p-Xylene	14.69	91	326847	0.77	ppbv	98
60) o-Xylene	15.47	91	197632	0.43	ppbv	99
61) Styrene	15.29	104	53559	0.30	ppbv	99
62) Isopropylbenzene	16.52	105	245893	0.40	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.45	83	149632	0.44	ppbv	99
64) n-propylbenzene	17.50	120	63590	0.39	ppbv	87
65) tert-Butylbenzene	18.79	119	235875	0.42	ppbv	94
66) Benzyl Chloride	19.08	91	60039	0.30	ppbv	95
67) sec-Butylbenzene	19.38	105	336786	0.41	ppbv	98
69) p-Isopropyltoluene	19.77	119	231281	0.37	ppbv	98
70) n-Butylbenzene	20.74	91	228272	0.35	ppbv	95
71) 2-Chlorotoluene	17.40	91	151666	0.32	ppbv	97
72) 4-Ethyltoluene	17.80	105	181572	0.35	ppbv	97
73) 1,3,5-Trimethylbenzene	17.96	105	182239	0.37	ppbv	95
74) 1,2,4-Trimethylbenzene	18.80	105	222350	0.43	ppbv #	86
75) 1,3-Dichlorobenzene	19.10	146	144670	0.45	ppbv	98
76) 1,4-Dichlorobenzene	19.25	146	142698	0.44	ppbv	98
77) 1,2-Dichlorobenzene	20.00	146	136407	0.42	ppbv	98
78) Hexachloro-1,3-Butadiene	24.65	225	52523	0.40	ppbv	96
79) Naphthalene	23.92	128	86001	0.25	ppbv	99
80) Naphthalene, 2-methyl-	26.03	142	15368	0.28	ppbv #	84
81) 1,2,4-Trichlorobenzene	23.72	180	49002	0.31	ppbv	97

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

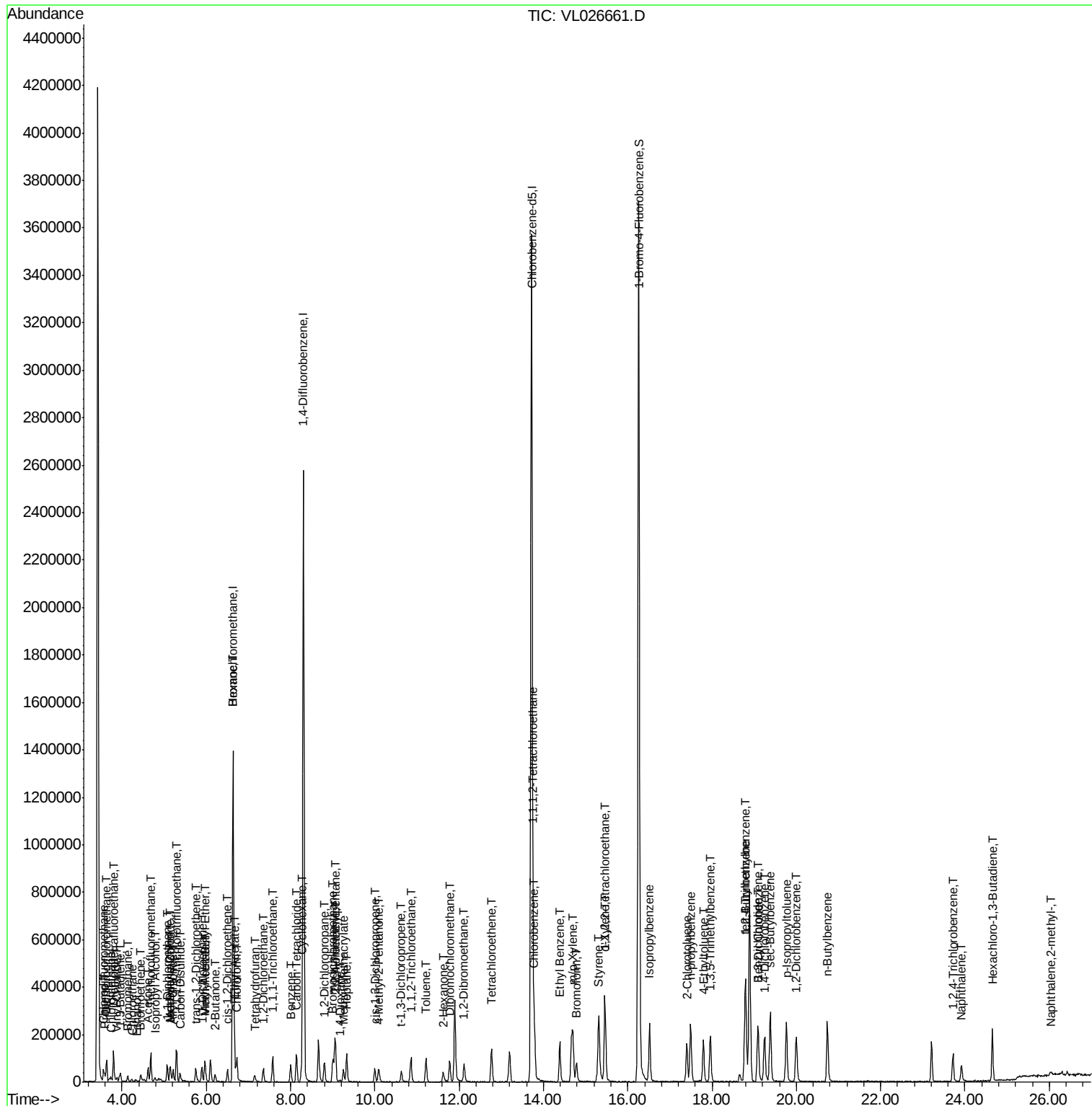
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Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\  
Data File : VL026661.D  
Acq On    : 9 Jan 2016 5:09  
Operator  : SY/AP  
Sample    : H1002-17  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
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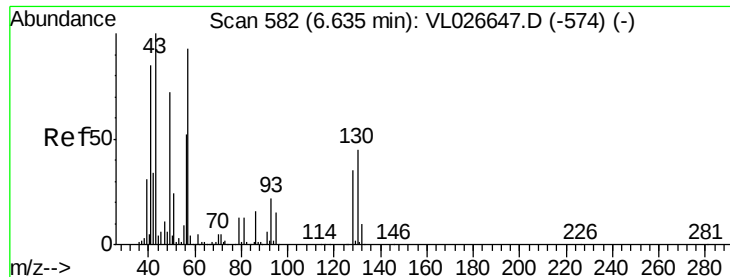
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Manual Integrations

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1/14/2016 10:51:17 AM

Quant Time: Jan 12 05:16:15 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 49 Resp: 675113

Ion Ratio Lower Upper

49 100

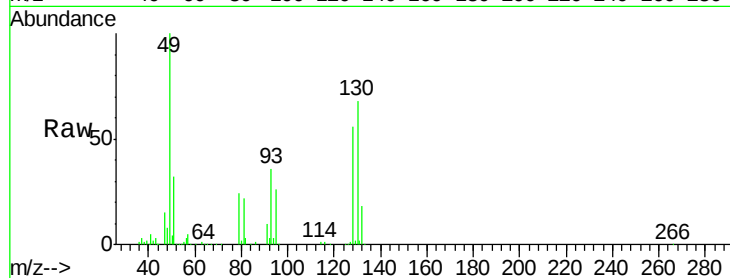
128 58.0 25.9 77.7

130 75.5 33.6 100.8

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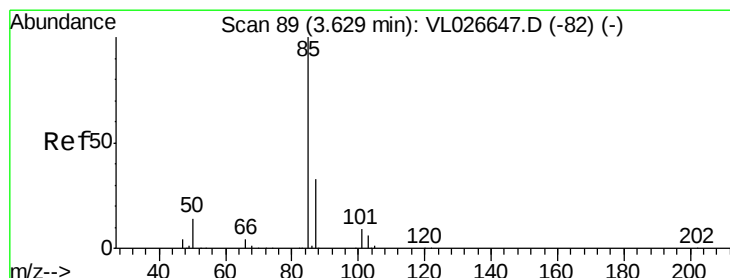
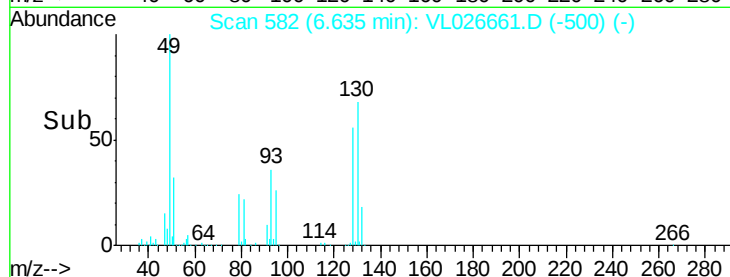
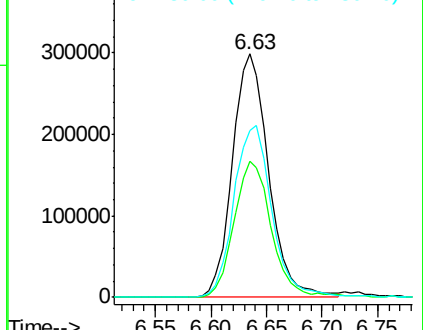
1/14/2016 10:51:17 AM



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: 0.50 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026661.D

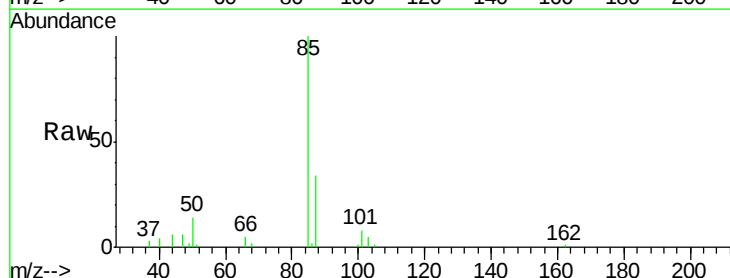
Acq: 9 Jan 2016 5:09

Tgt Ion: 85 Resp: 89813

Ion Ratio Lower Upper

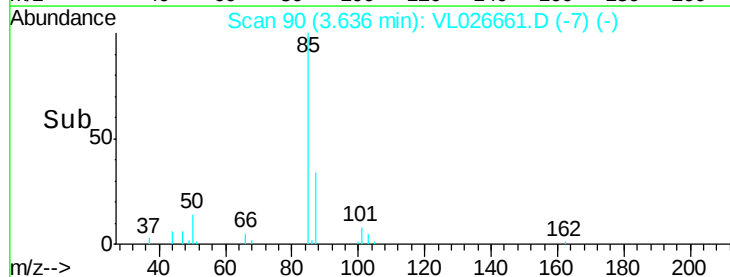
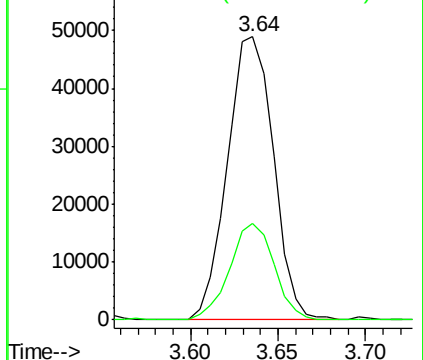
85 100

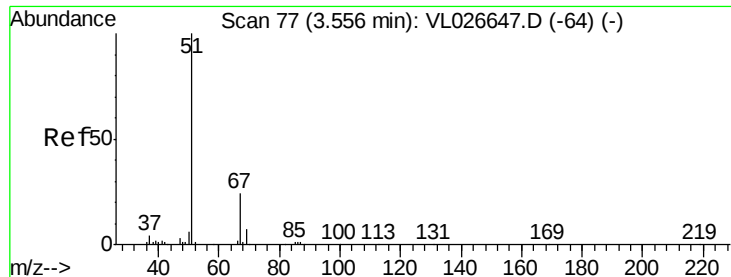
87 34.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.47 ppbv

RT: 3.57 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tot Ion: 51 Resp: 42288

Ion Ratio Lower Upper

51 100

67 22.5 18.6 28.0

Instrument :

MSVOA_L

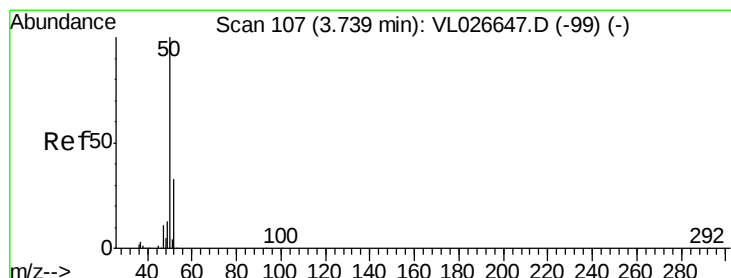
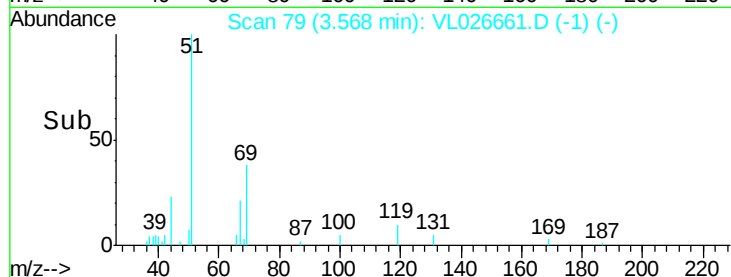
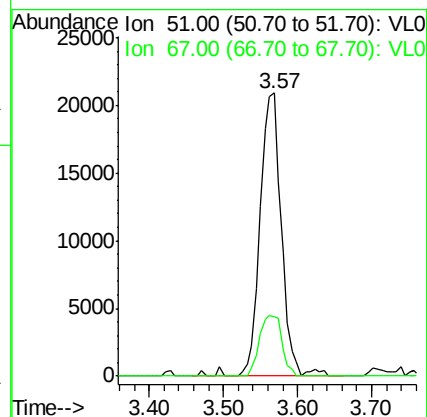
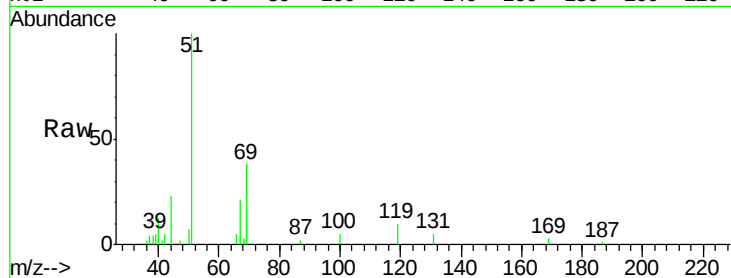
ClientSampleId :

MDL-AIR-3

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#4

Chloromethane

Concen: 0.41 ppbv

RT: 3.75 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL026661.D

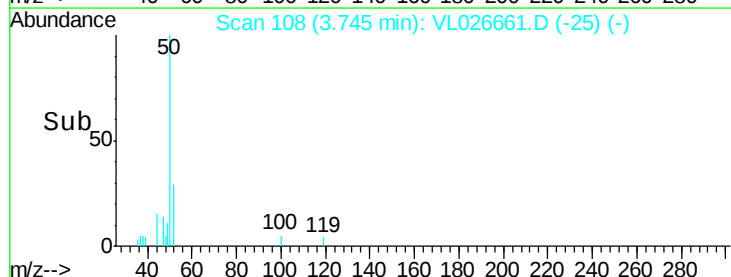
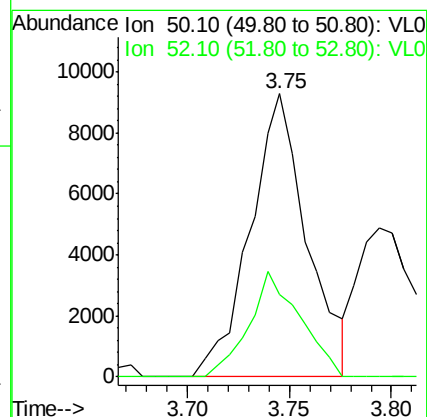
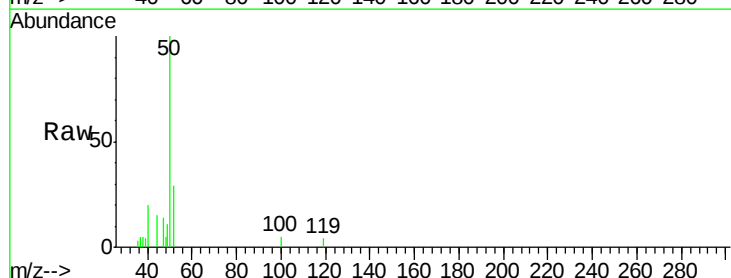
Acq: 9 Jan 2016 5:09

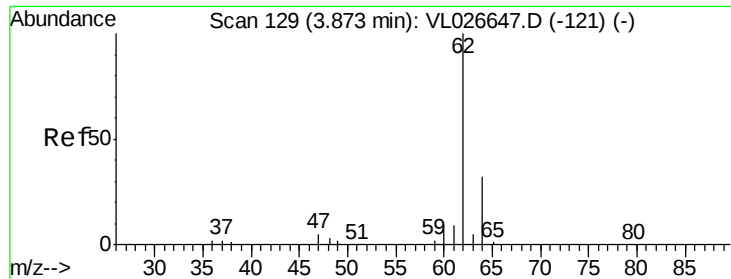
Tgt Ion: 50 Resp: 17961

Ion Ratio Lower Upper

50 100

52 29.3 26.7 40.1





#5

Vinyl Chloride

Concen: 0.37 ppbv

RT: 3.88 min Scan# 130

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 62 Resp: 19753

Ion Ratio Lower Upper

62 100

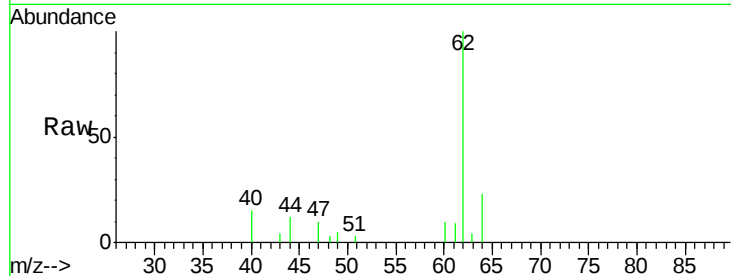
64 22.8 25.6 38.4#

Manual Integrations

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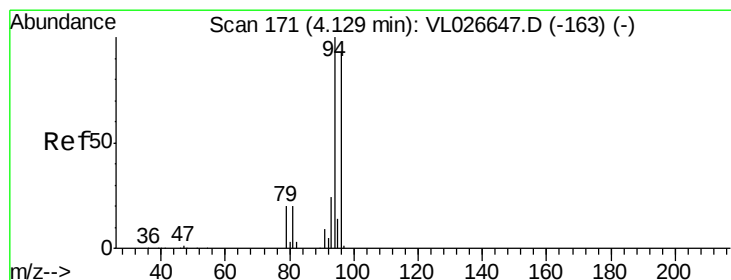
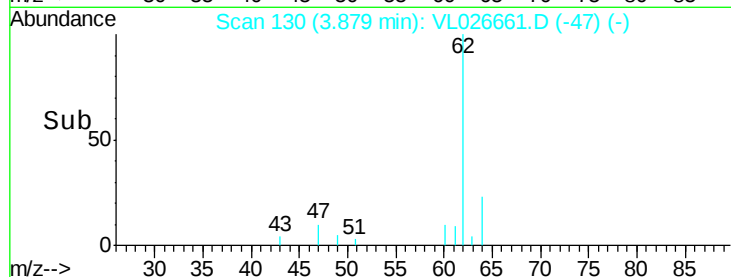
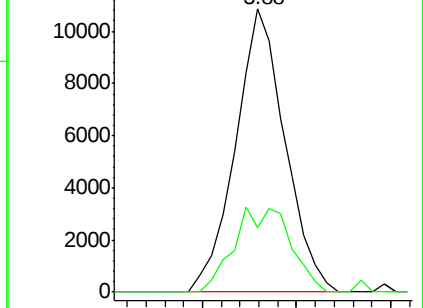
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.39 ppbv

RT: 4.14 min Scan# 172

Delta R.T. 0.01 min

Lab File: VL026661.D

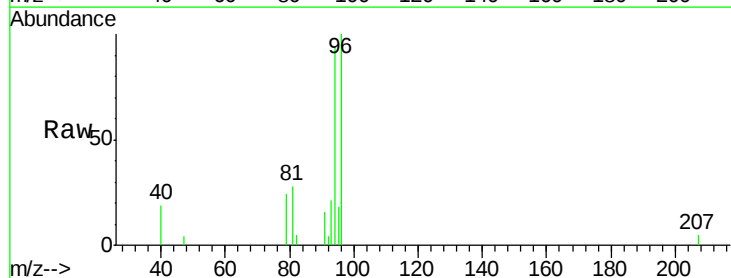
Acq: 9 Jan 2016 5:09

Tgt Ion: 94 Resp: 14957

Ion Ratio Lower Upper

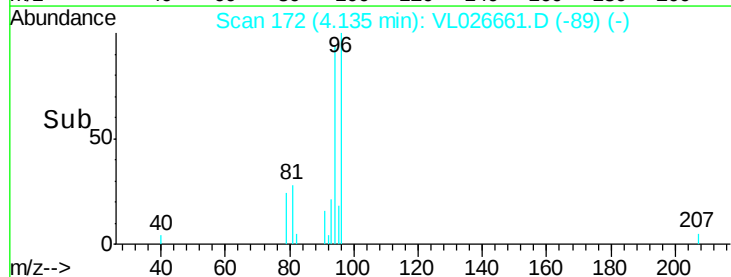
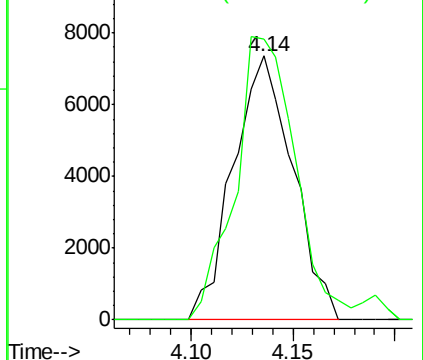
94 100

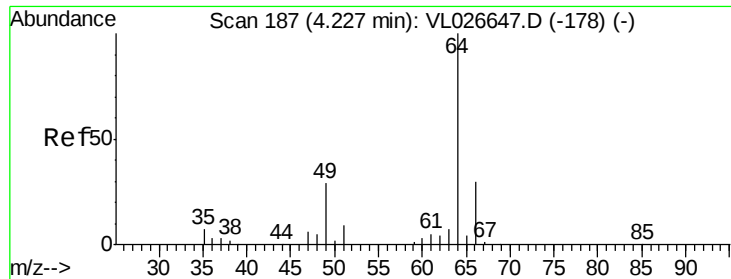
96 106.5 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.43 ppbv

RT: 4.24 min Scan# 189

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 64 Resp: 9250

Ion Ratio Lower Upper

64 100

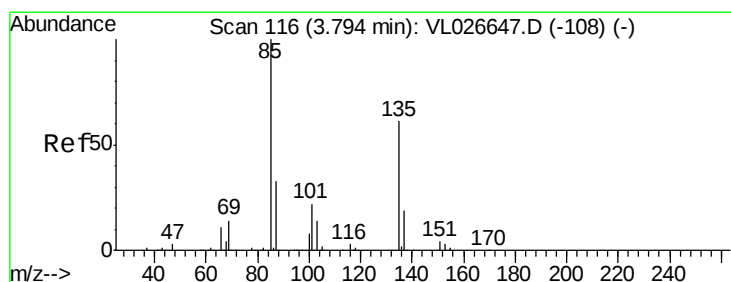
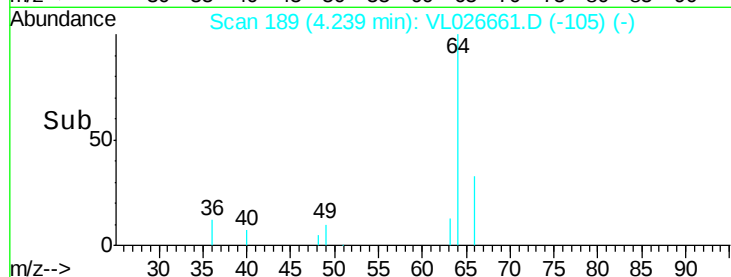
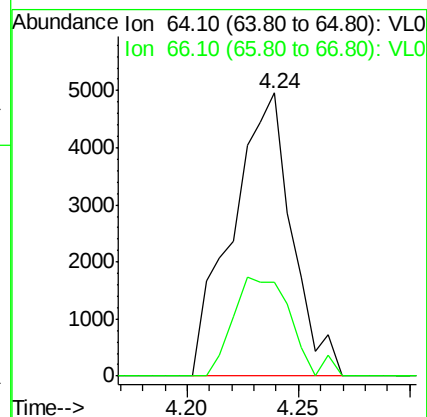
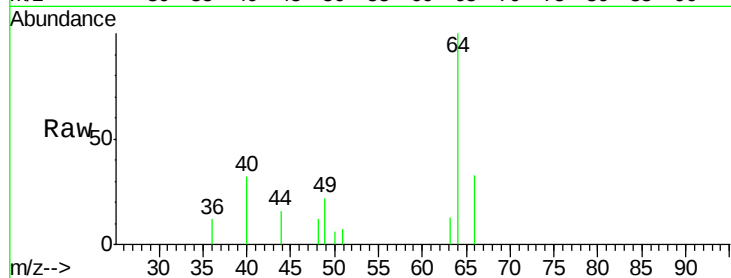
66 33.3 24.3 36.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.47 ppbv

RT: 3.79 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL026661.D

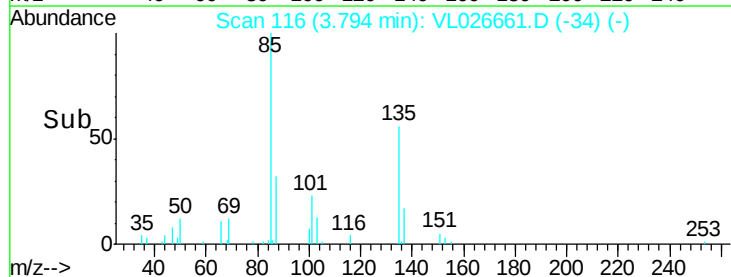
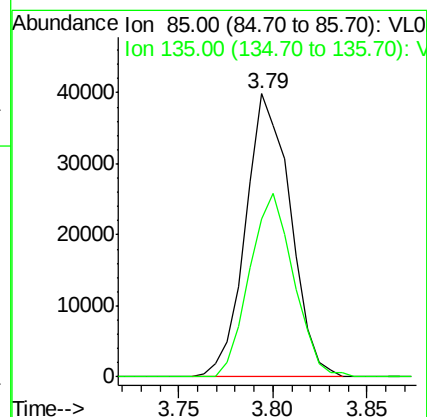
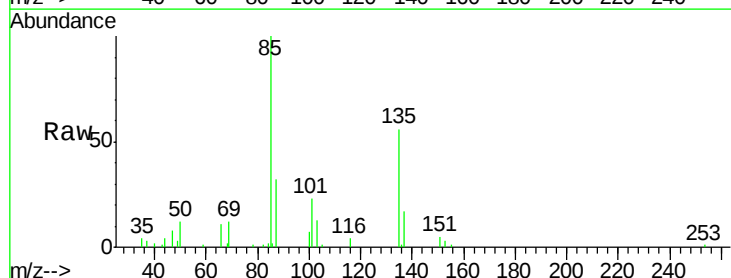
Acq: 9 Jan 2016 5:09

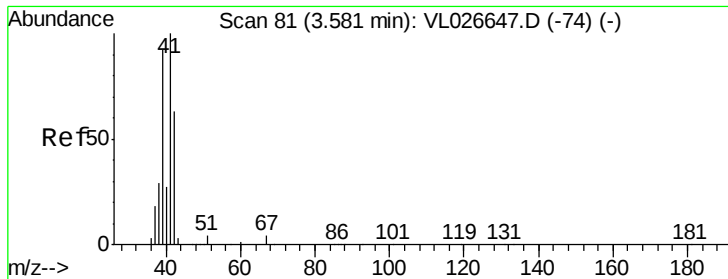
Tgt Ion: 85 Resp: 65872

Ion Ratio Lower Upper

85 100

135 63.8 49.8 74.6





#9

Propene

Concen: 0.34 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 41 Resp: 11115

Ion Ratio Lower Upper

41 100

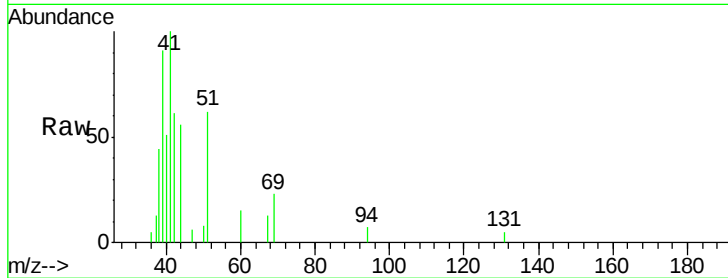
42 76.8 53.6 80.4

Manual Integrations

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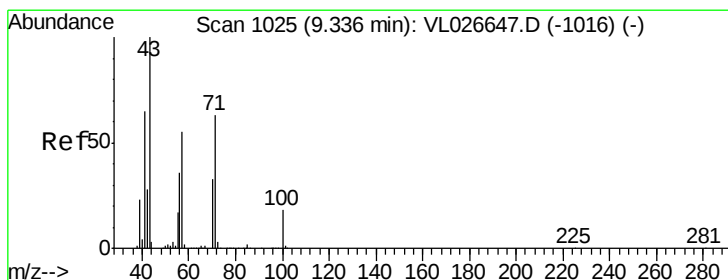
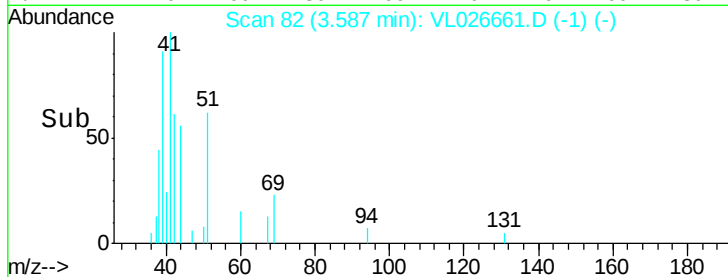
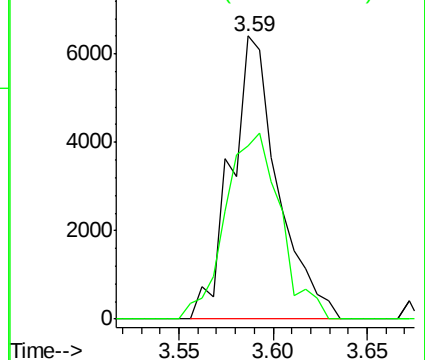
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.36 ppbv

RT: 9.34 min Scan# 1025

Delta R.T. 0.00 min

Lab File: VL026661.D

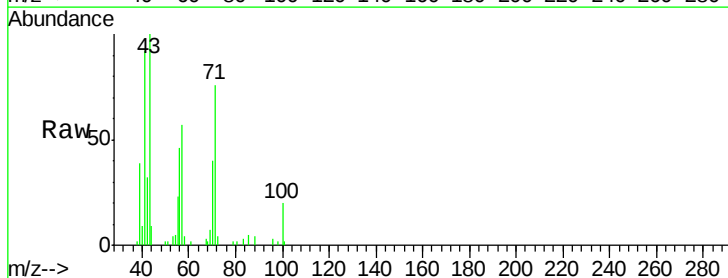
Acq: 9 Jan 2016 5:09

Tgt Ion: 43 Resp: 42980

Ion Ratio Lower Upper

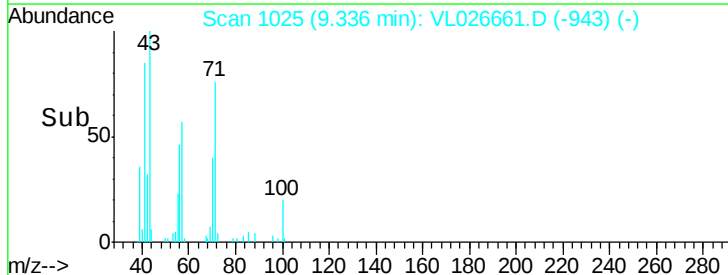
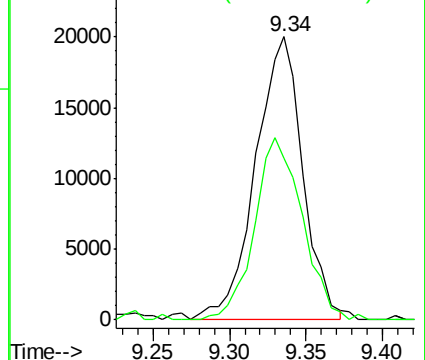
43 100

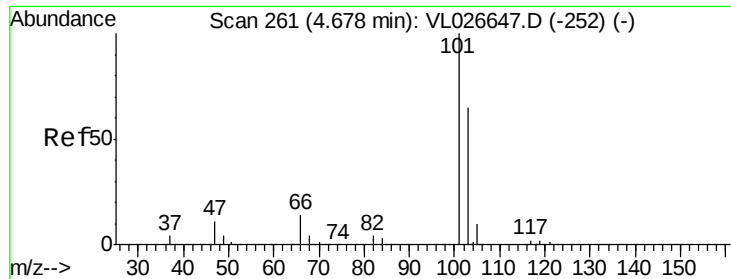
57 65.4 45.8 68.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.53 ppbv

RT: 4.68 min Scan# 262

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion:101 Resp: 97964

Ion Ratio Lower Upper

101 100

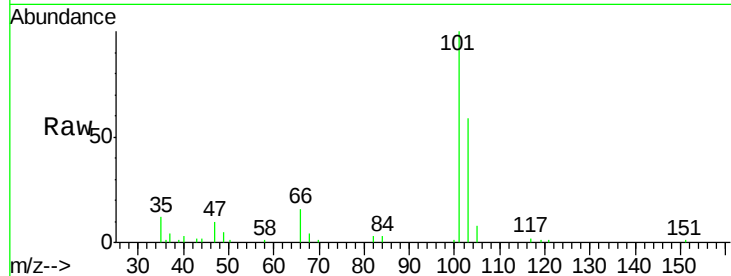
103 59.4 51.7 77.5

Manual Integrations

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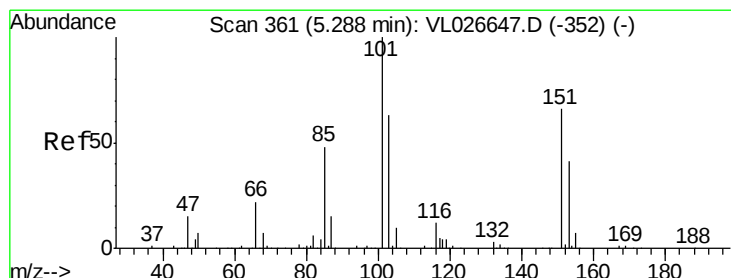
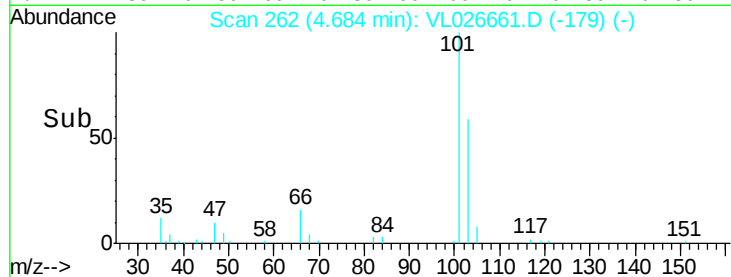
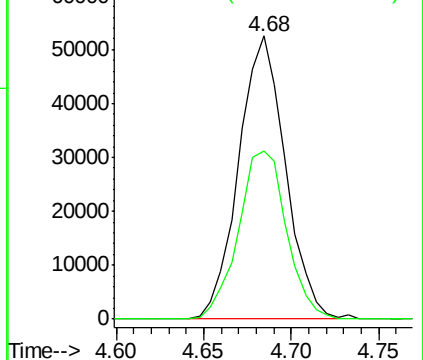
MMdadoda

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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: 0.48 ppbv

RT: 5.29 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL026661.D

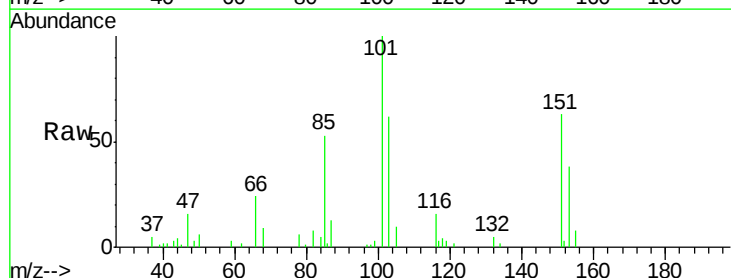
Acq: 9 Jan 2016 5:09

Tgt Ion:101 Resp: 55167

Ion Ratio Lower Upper

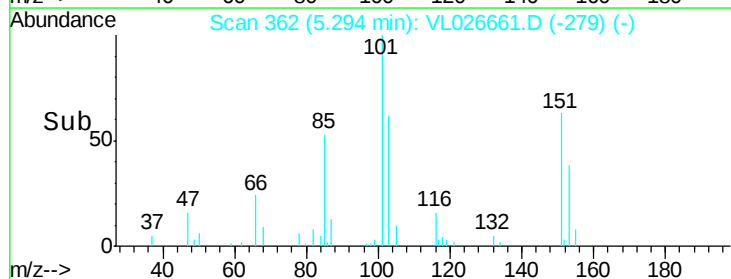
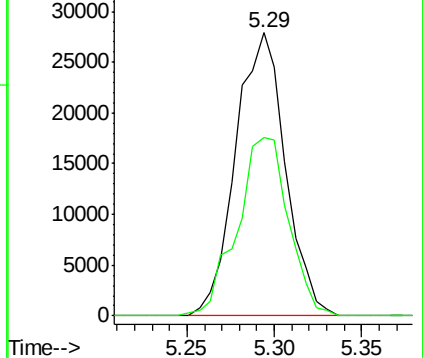
101 100

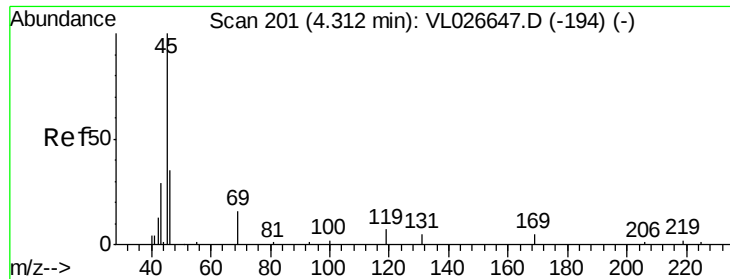
151 65.1 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.34 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.04 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tot Ion: 45 Resp: 2077

Ion Ratio Lower Upper

45 100

46 49.1 16.7 66.7

Instrument :

MSVOA_L

ClientSampleId :

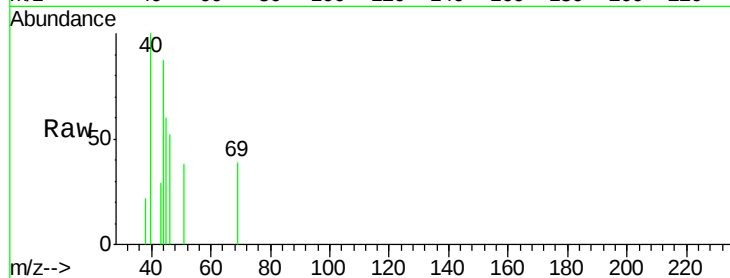
MDL-AIR-3

Manual Integrations

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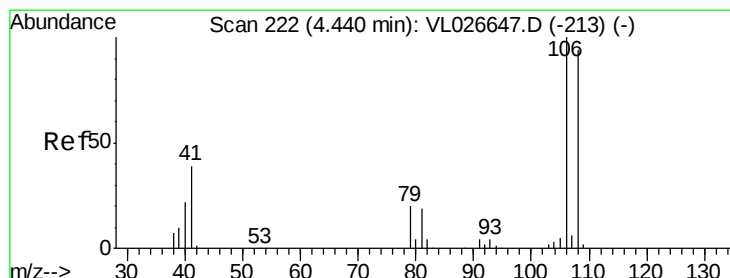
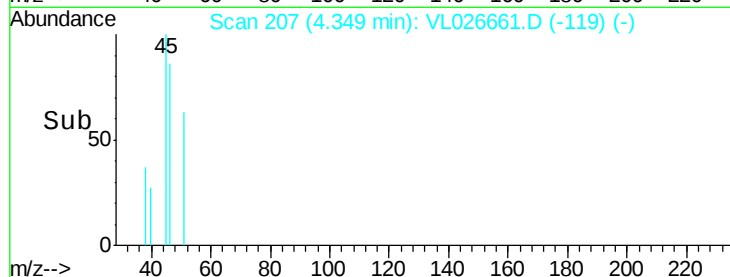
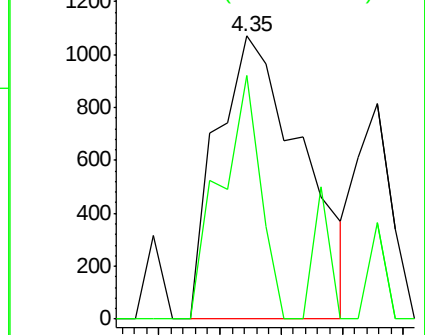
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.41 ppbv

RT: 4.45 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

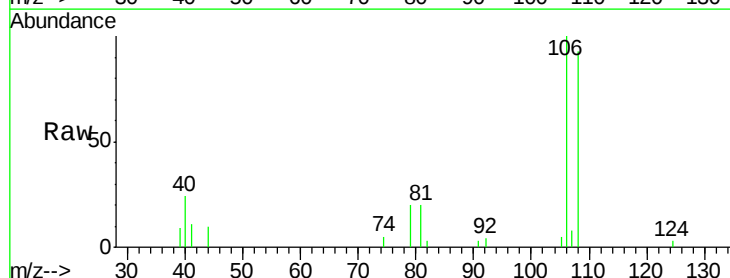
Tgt Ion: 108 Resp: 16763

Ion Ratio Lower Upper

108 100

106 121.3 86.4 129.6

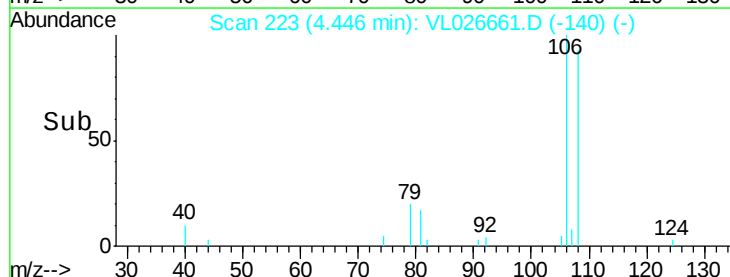
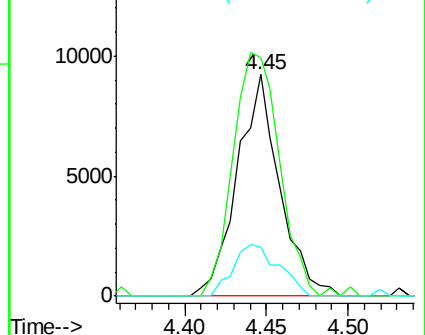
79 24.8 17.2 25.8

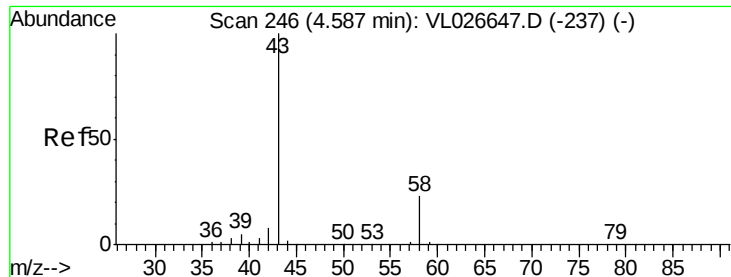


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

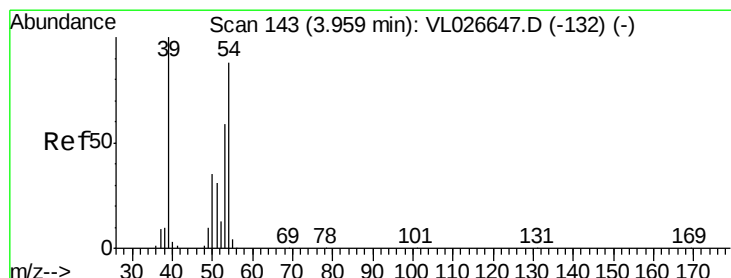
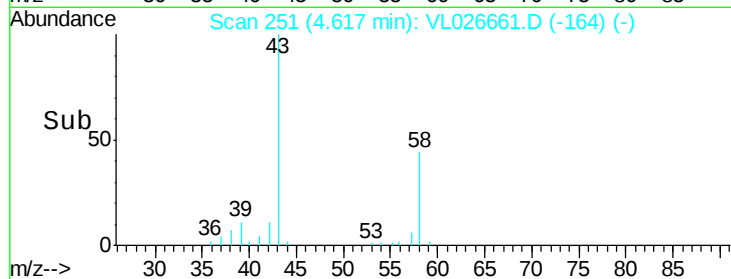
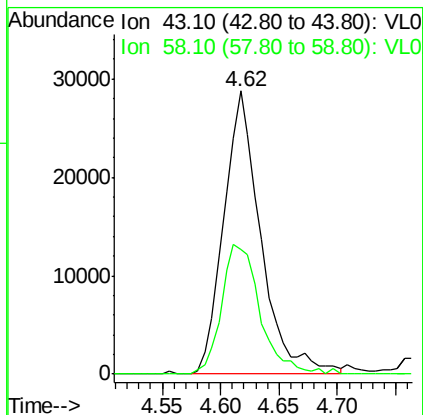
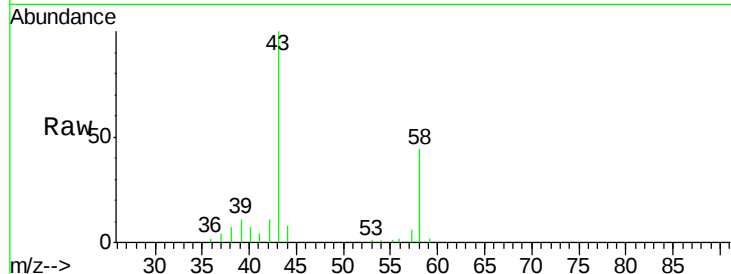
Concen: 0.57 ppbv m
RT: 4.62 min Scan# 251
Delta R.T. 0.03 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	43	Resp	63541
Ion Ratio	100	Lower	Upper
58	47.7	19.2	28.8#

Manual Integrations
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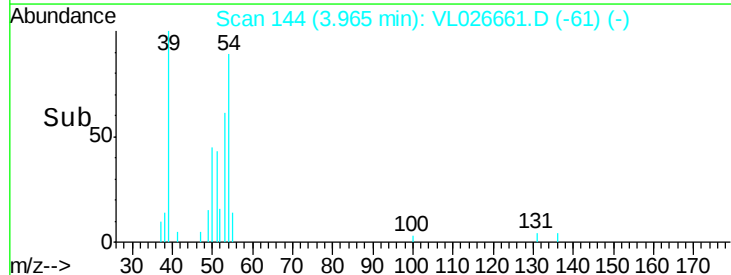
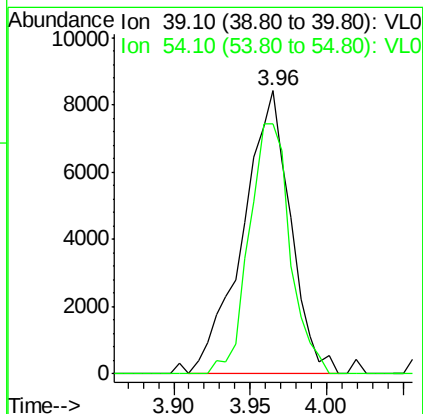
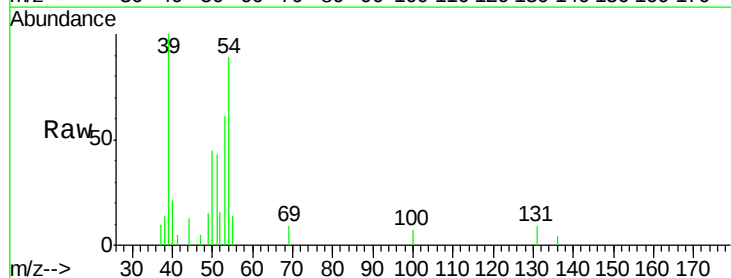


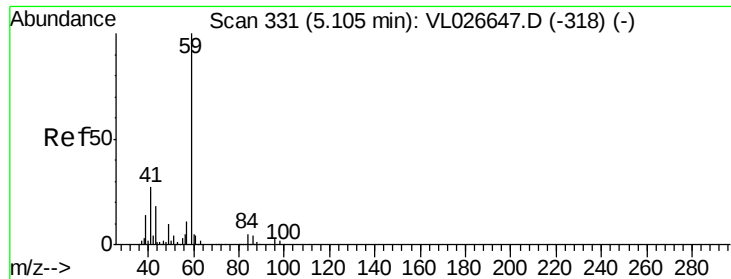
#16

1,3-Butadiene

Concen: 0.41 ppbv
RT: 3.96 min Scan# 144
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	39	Resp	18345
Ion Ratio	100	Lower	Upper
54	76.1	66.6	100.0





#17

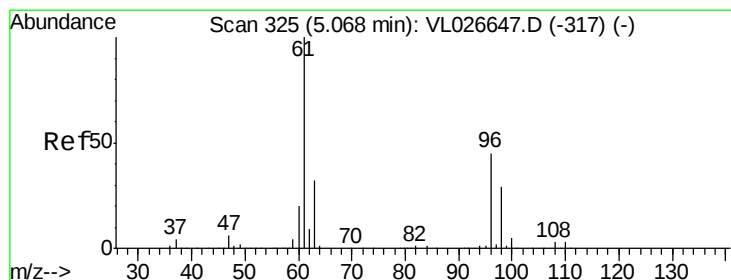
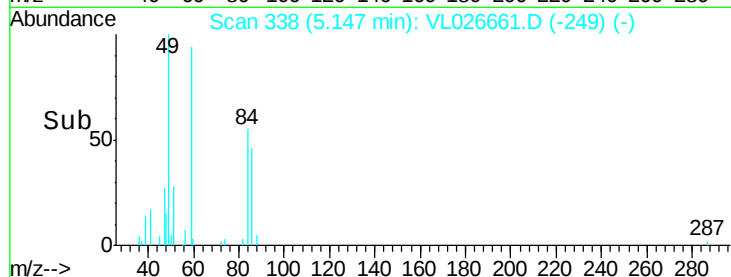
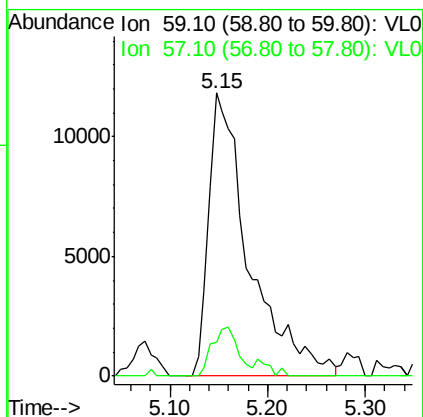
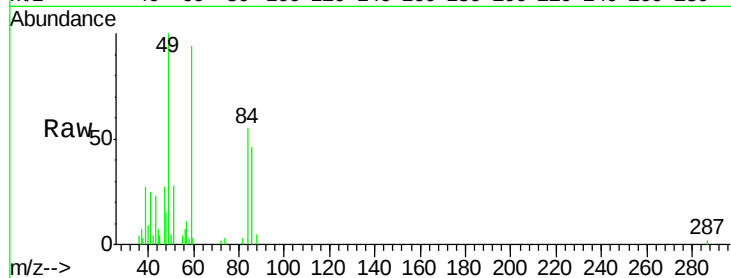
tert-Butyl alcohol
 Concen: 0.41 ppbv m
 RT: 5.15 min Scan# 338
 Delta R.T. 0.04 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-3

Tot Ion	59	Ratio	Lower	Upper
59	100			
57	0.0	9.0	13.6#	

Manual Integrations
 APPROVED

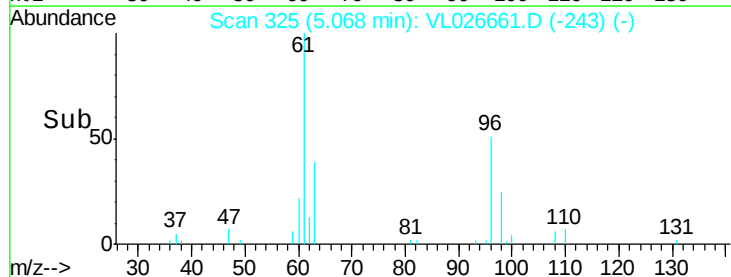
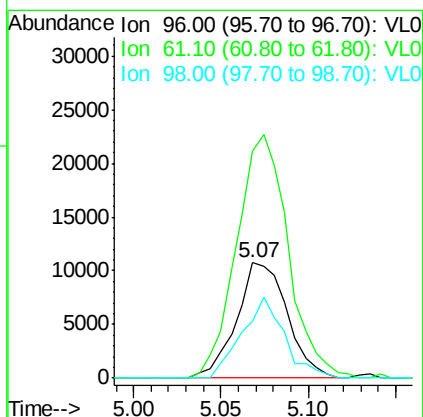
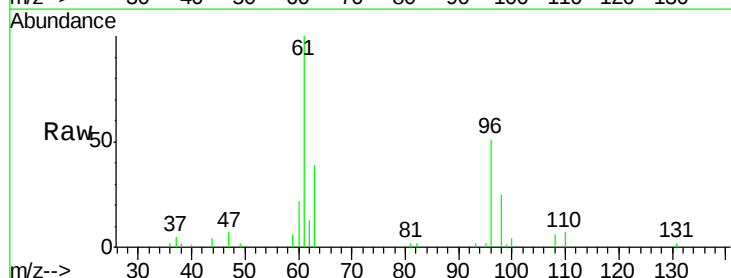
MMdadoda
 1/14/2016 10:51:17 AM

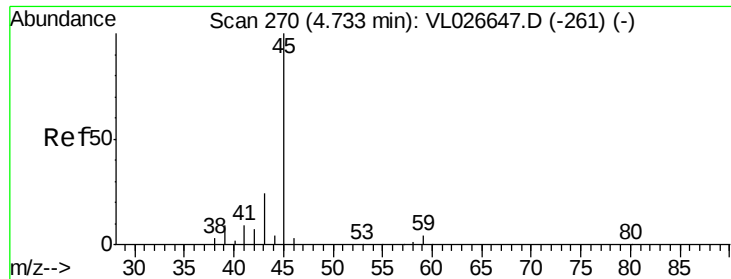


#18

1,1-Dichloroethene
 Concen: 0.46 ppbv
 RT: 5.07 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion	96	Ratio	Lower	Upper
96	100			
61	196.2	176.7	265.1	
98	48.9	51.8	77.6#	





#19

Isopropyl Alcohol

Concen: 0.37 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.04 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 45 Resp: 17007

Ion Ratio Lower Upper

45 100

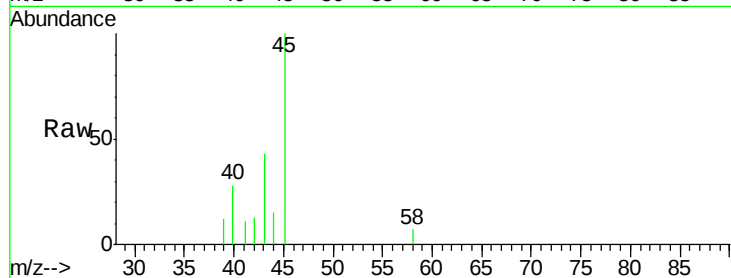
58 0.0 1.3 1.9#

Manual Integrations

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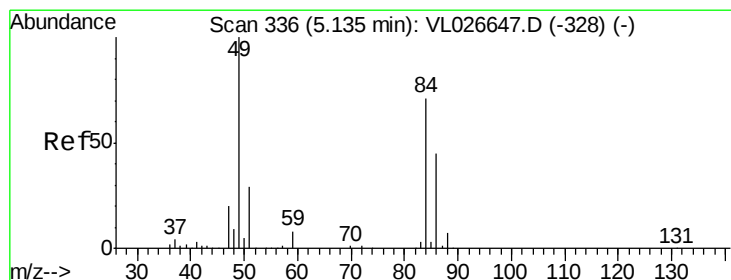
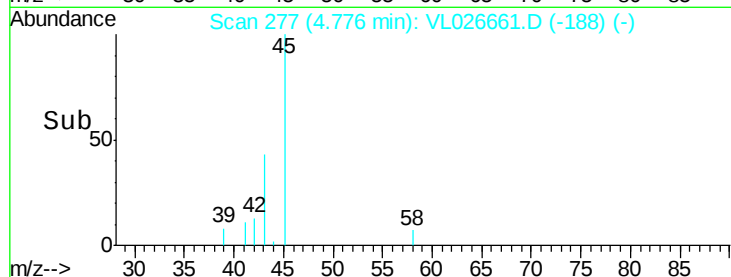
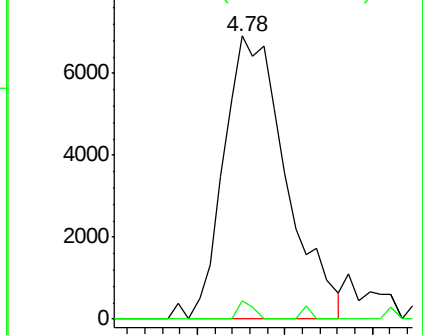
MMdadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.52 ppbv m

RT: 5.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion: 84 Resp: 23532

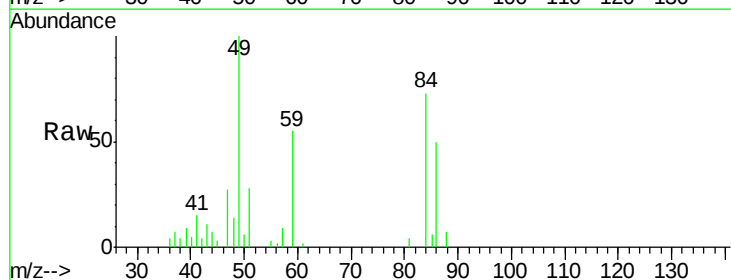
Ion Ratio Lower Upper

84 100

49 137.4 112.3 168.5

51 38.8 32.5 48.7

86 68.2 50.3 75.5

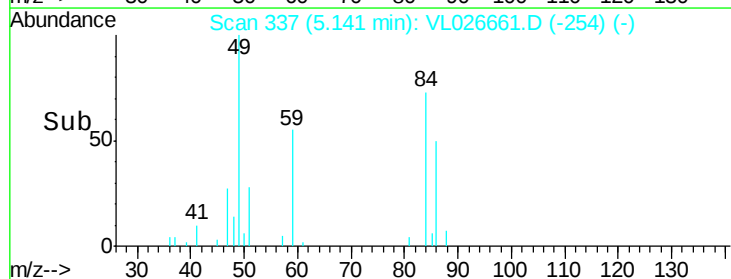
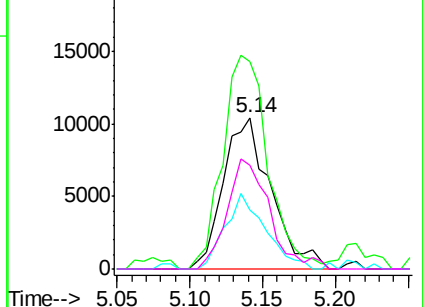


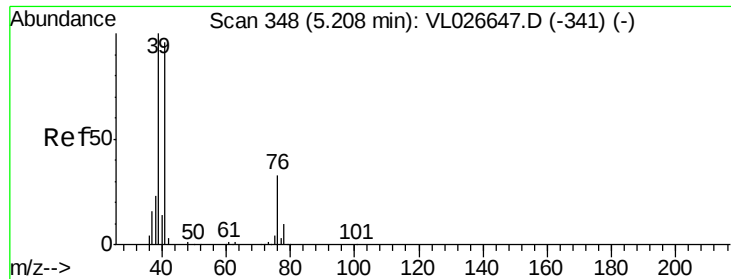
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





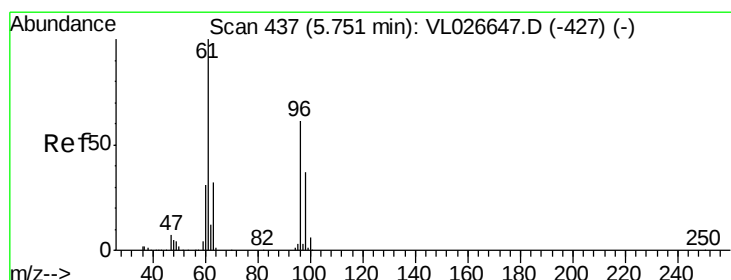
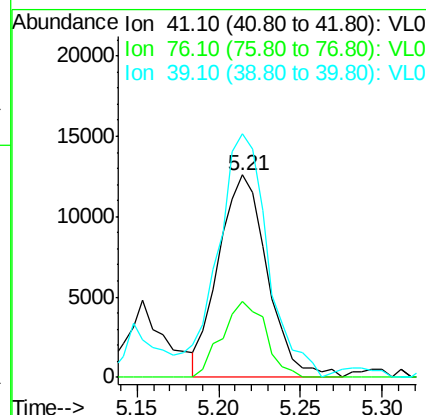
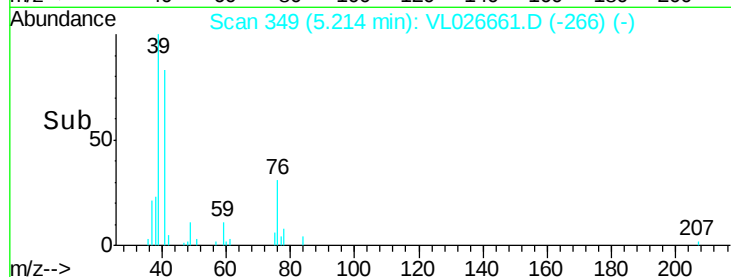
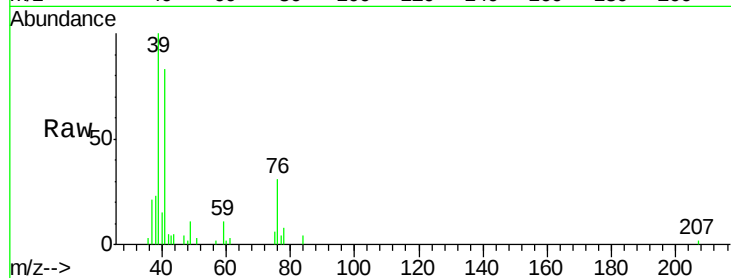
#21
Allvl Chloride
Concen: 0.39 ppbv
RT: 5.21 min Scan# 349
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
41	100		
76	33.5	27.5	41.3
39	146.5	83.0	124.6

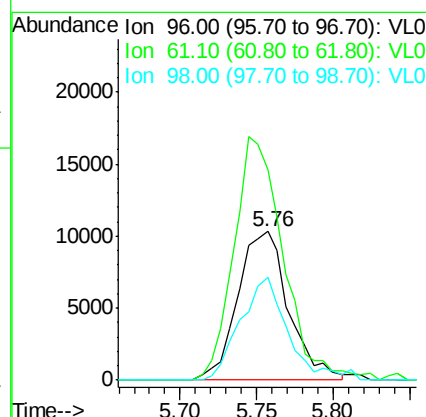
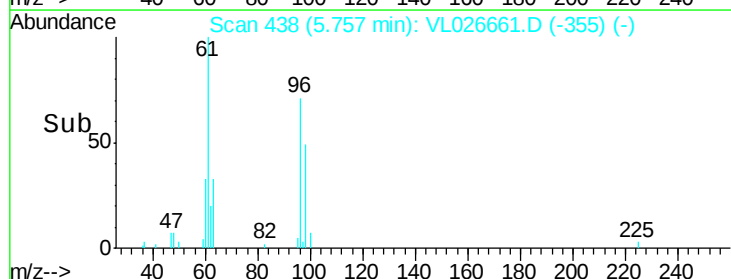
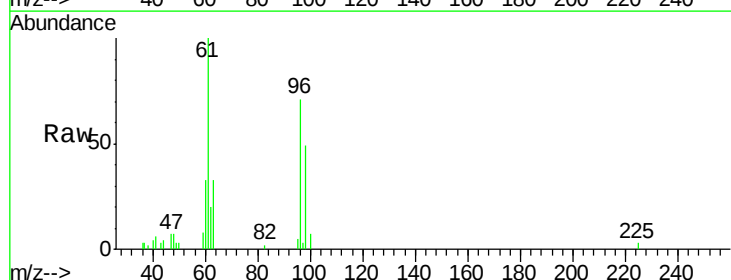
Manual Integrations
APPROVED

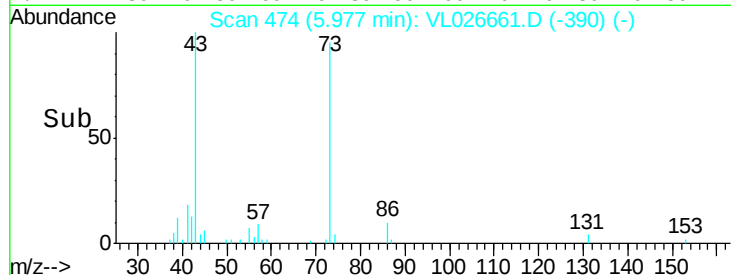
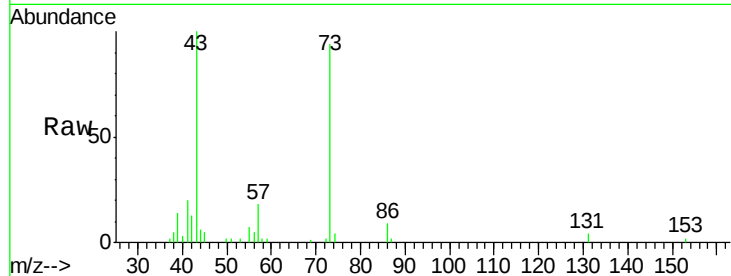
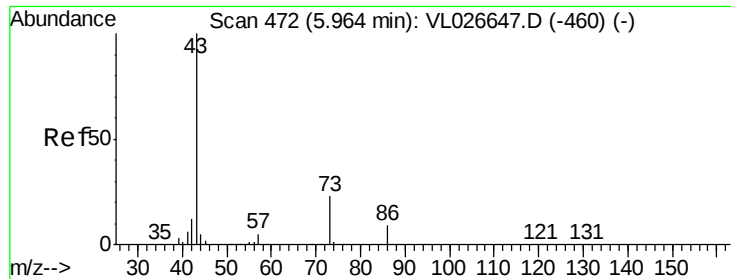
MMdadoda
1/14/2016 10:51:17 AM



#22
trans-1,2-Dichloroethene
Concen: 0.44 ppbv
RT: 5.76 min Scan# 438
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.6	131.0	196.6
98	68.9	48.1	72.1





#23

Vinyl Acetate

Concen: 0.35 ppbv

RT: 5.98 min Scan# 474

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tot Ion	43	Resp	59798
Ion Ratio	Lower	Upper	
43	100		
86	9.5	7.4	11.0
42	13.2	9.2	13.8
44	4.5	3.8	5.8

Instrument :

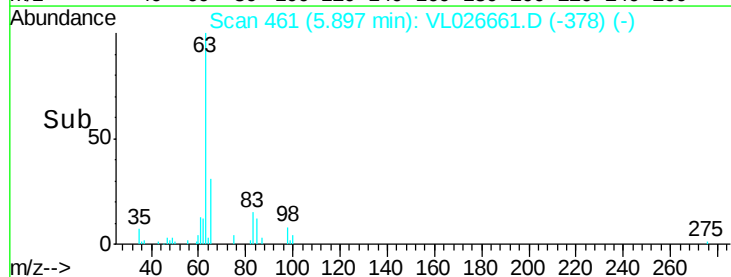
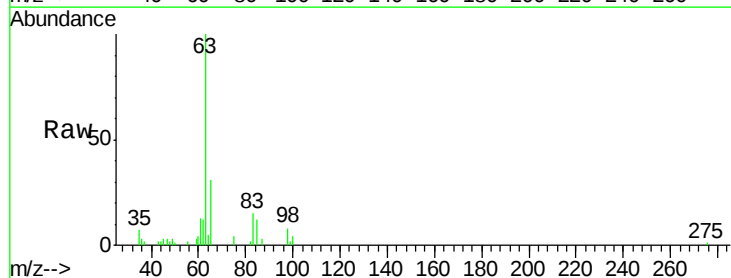
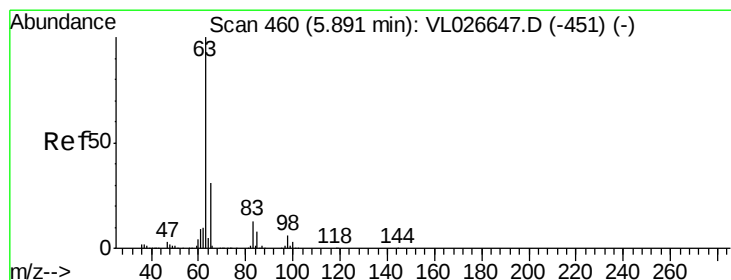
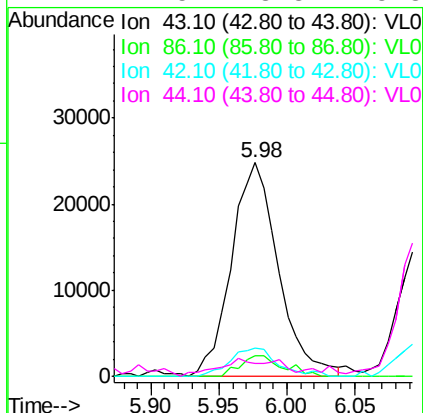
MSVOA_L

ClientSampleId :

MDL-AIR-3

Manual Integrations
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MMdadoda
1/14/2016 10:51:17 AM



#24

1,1-Dichloroethane

Concen: 0.42 ppbv

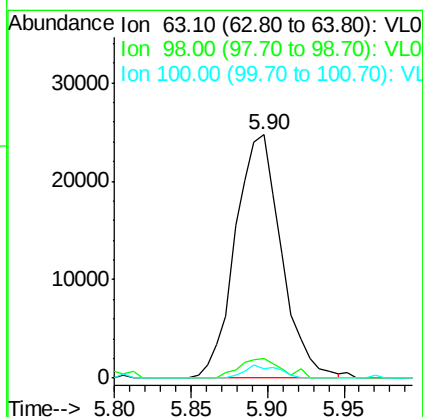
RT: 5.90 min Scan# 461

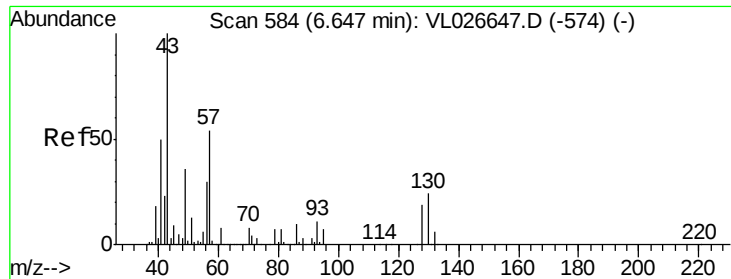
Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion	63	Resp	51650
Ion Ratio	Lower	Upper	
63	100		
98	8.2	2.9	8.7
100	3.7	1.6	4.8





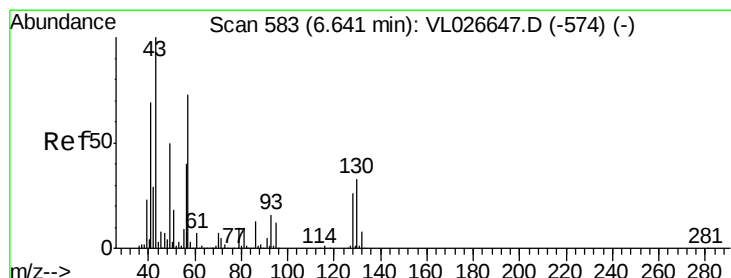
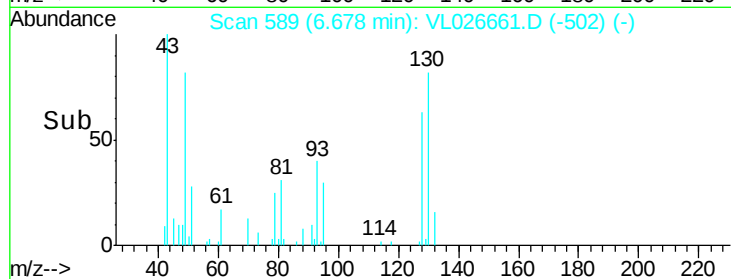
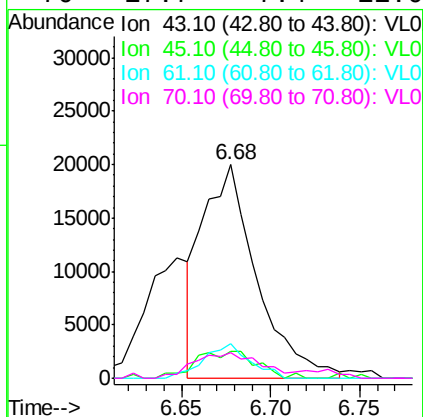
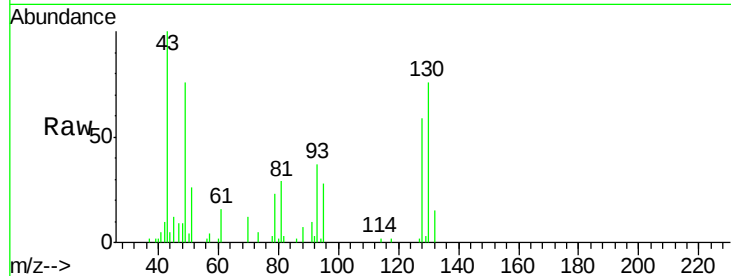
#25
Ethyl Acetate
Concen: 0.25 ppbv m
RT: 6.68 min Scan# 589
Delta R.T. 0.03 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
43	100		
45	15.4	7.5	11.3#
61	13.7	7.3	10.9#
70	17.7	7.4	11.0#

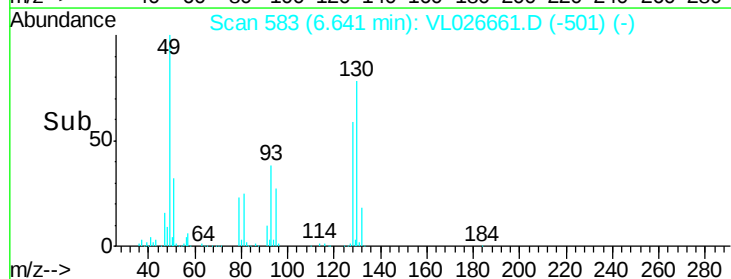
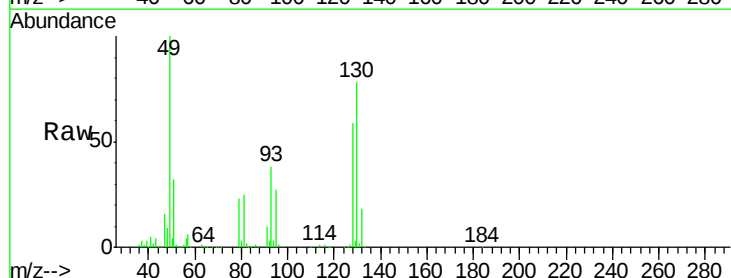
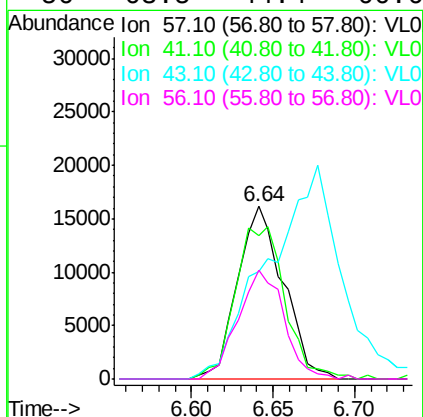
Manual Integrations
APPROVED

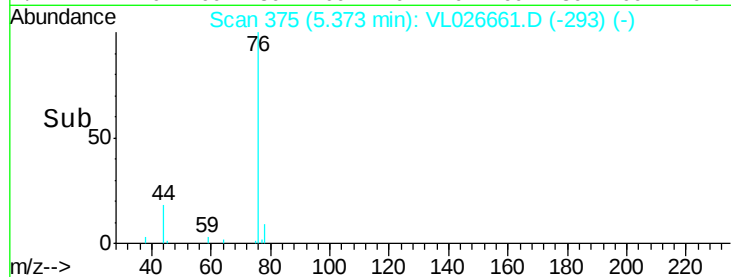
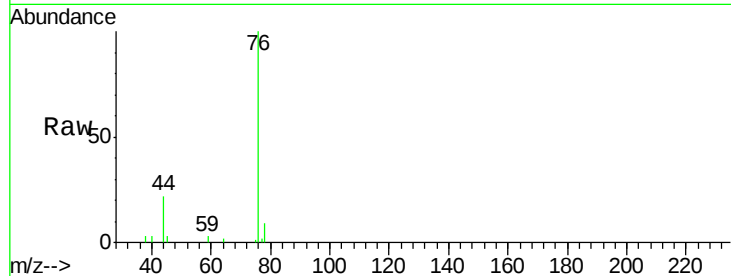
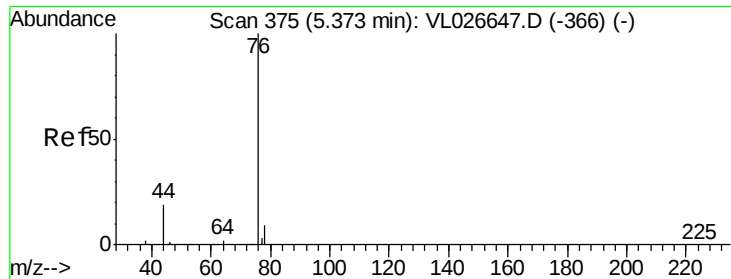
MMdadoda
1/14/2016 10:51:17 AM



#26
Hexane
Concen: 0.36 ppbv
RT: 6.64 min Scan# 583
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.5	74.8	112.2
43	199.9	161.5	242.3
56	63.5	44.4	66.6





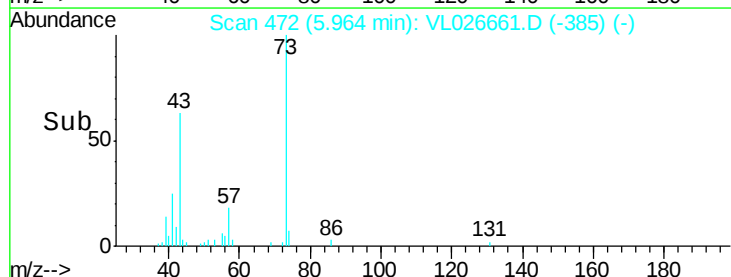
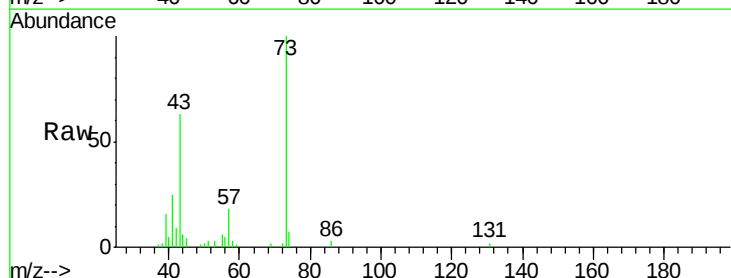
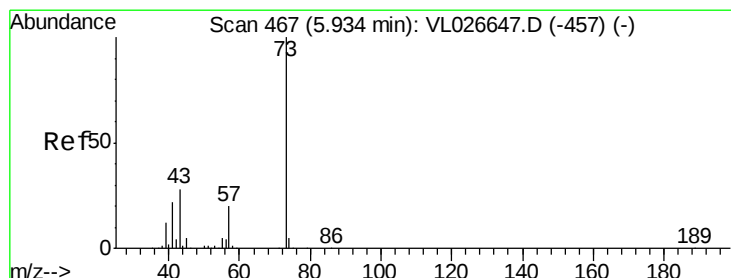
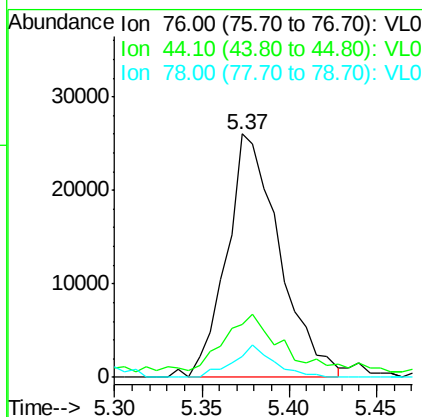
#27
Carbon Disulfide
Concen: 0.42 ppbv
RT: 5.37 min Scan# 375
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tot Ion	Ratio	Lower	Upper
76	100		
44	29.8	15.9	23.9#
78	10.1	7.6	11.4

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

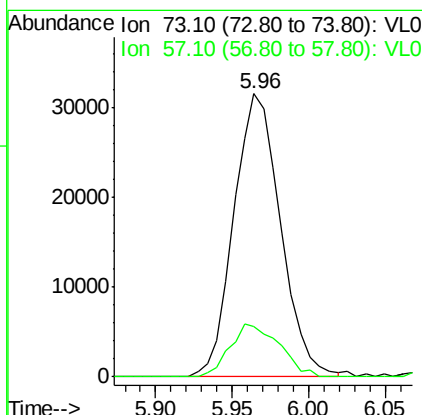
Manual Integrations
APPROVED

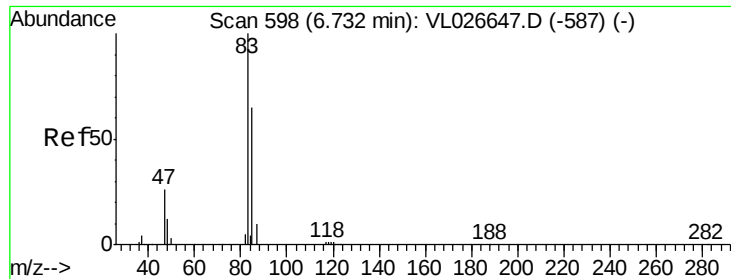
MMdadoda
1/14/2016 10:51:17 AM



#28
Methyl tert-Butyl Ether
Concen: 0.38 ppbv
RT: 5.96 min Scan# 472
Delta R.T. 0.03 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
73	100		
57	19.8	16.2	24.4





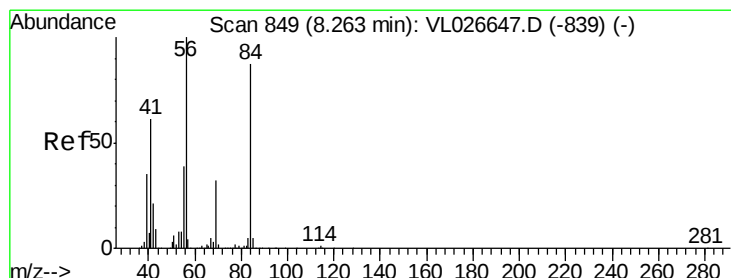
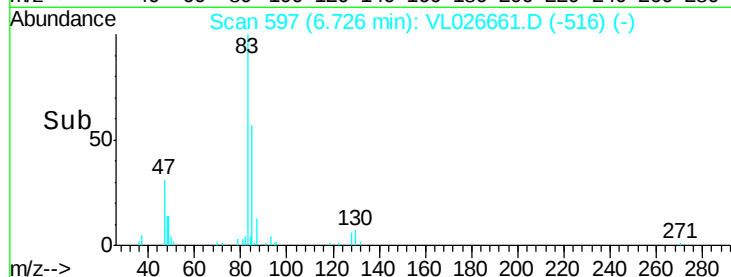
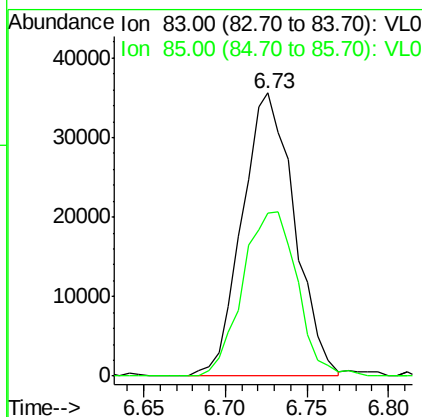
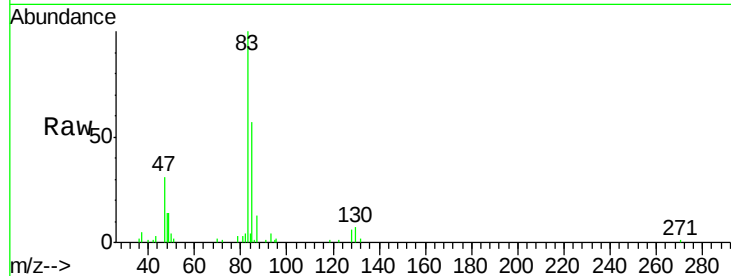
#29
Chloroform
Concen: 0.49 ppbv
RT: 6.73 min Scan# 597
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	83	Resp	79489
Ion Ratio	Lower	Upper	
83	100		
85	57.5	51.6	77.4

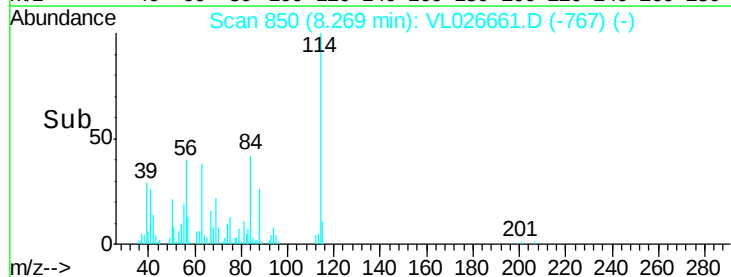
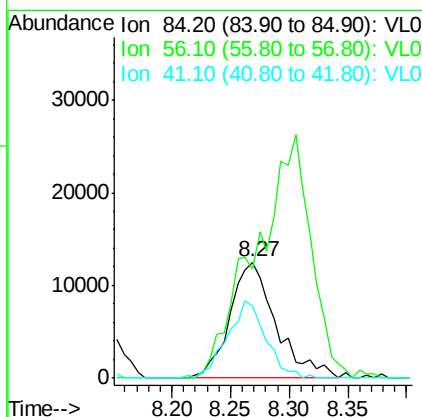
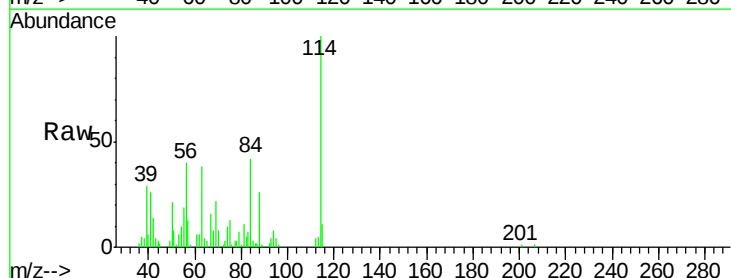
Manual Integrations
APPROVED

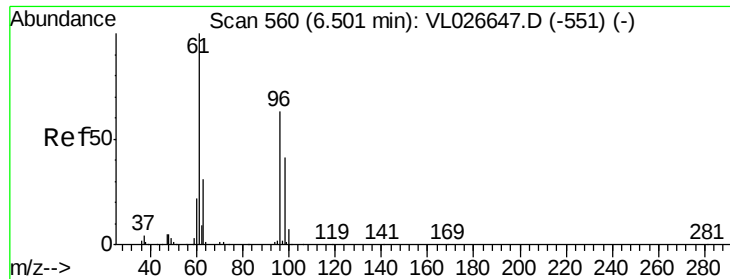
MMdadoda
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#30
Cyclohexane
Concen: 0.39 ppbv m
RT: 8.27 min Scan# 850
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	84	Resp	33996
Ion Ratio	Lower	Upper	
84	100		
56	0.0	95.9	143.9#
41	56.2	54.8	82.2





#31

cis-1,2-Dichloroethene

Concen: 0.36 ppbv

RT: 6.50 min Scan# 560

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tot Ion:	61	Resp:	32514
Ion	Ratio	Lower	Upper
61	100		
96	50.4	50.2	75.4
98	35.1	32.4	48.6

Instrument :

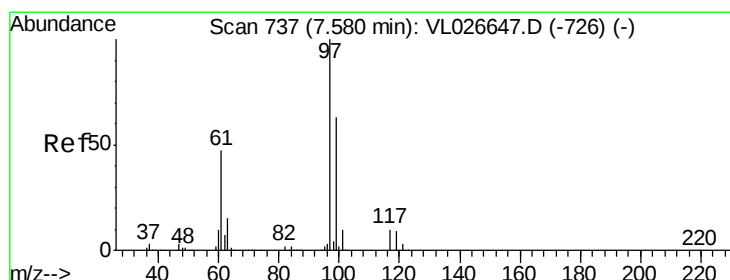
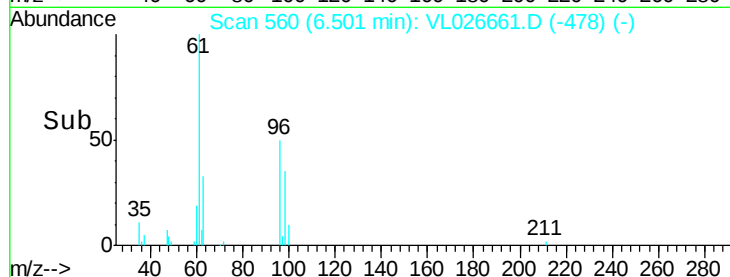
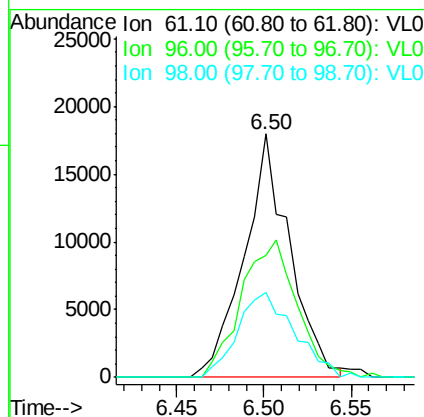
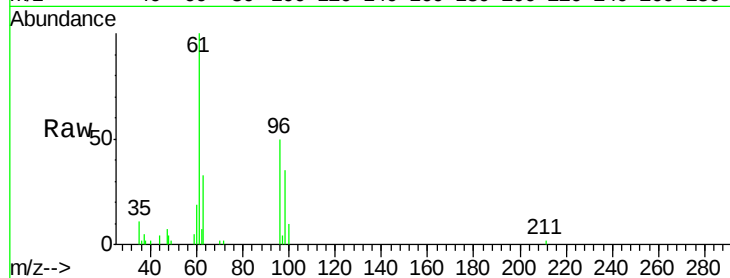
MSVOA_L

ClientSampleId :

MDL-AIR-3

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 0.43 ppbv

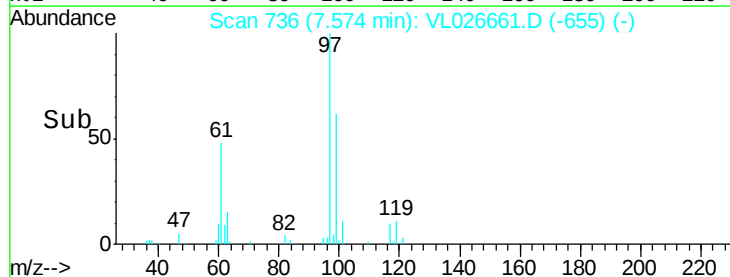
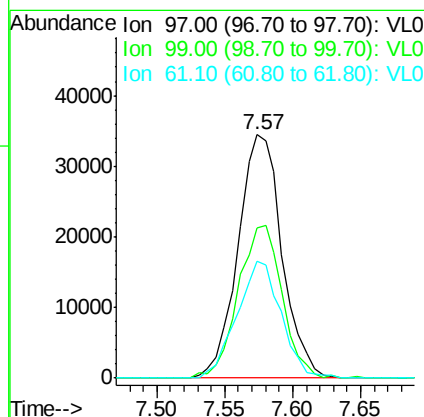
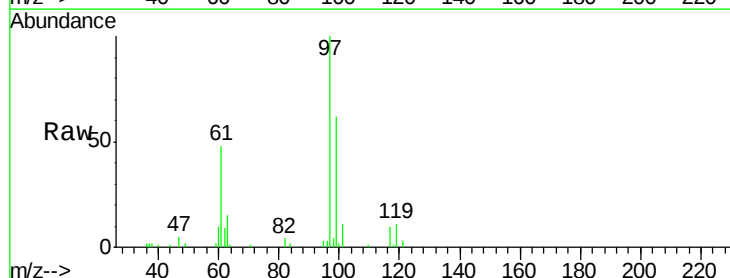
RT: 7.57 min Scan# 736

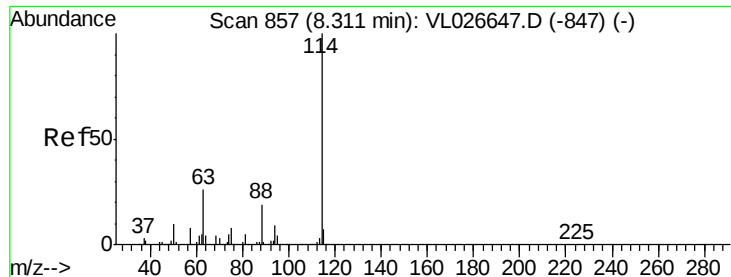
Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion:	97	Resp:	77866
Ion	Ratio	Lower	Upper
97	100		
99	62.8	50.8	76.2
61	47.9	38.9	58.3





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.31 min Scan# 856

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion:114 Resp: 2139698

Ion Ratio Lower Upper

114 100

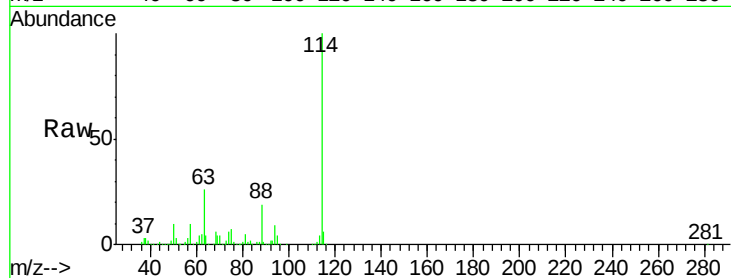
63 26.5 21.7 32.5

88 19.3 15.2 22.8

Manual Integrations
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MMdadoda

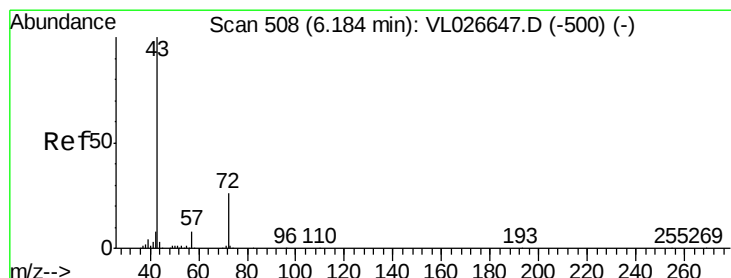
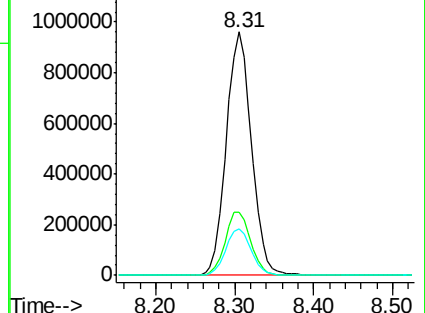
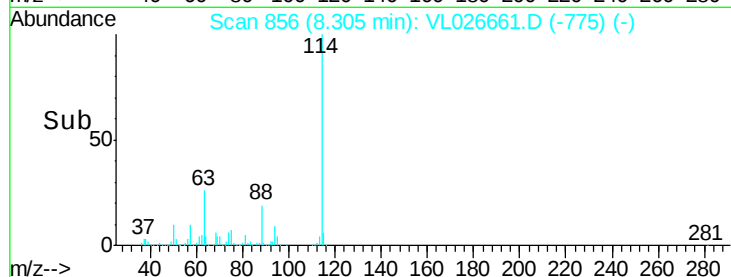
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.36 ppbv

RT: 6.21 min Scan# 513

Delta R.T. 0.03 min

Lab File: VL026661.D

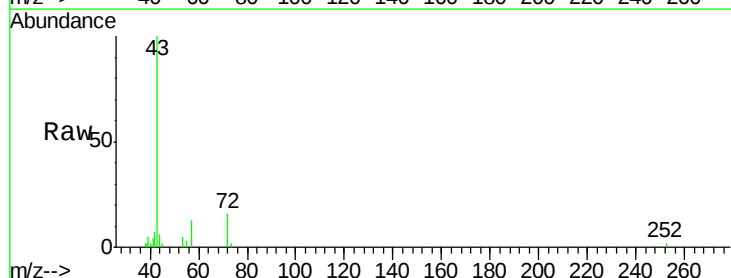
Acq: 9 Jan 2016 5:09

Tgt Ion: 43 Resp: 41192

Ion Ratio Lower Upper

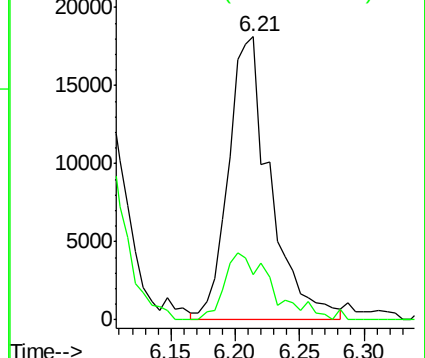
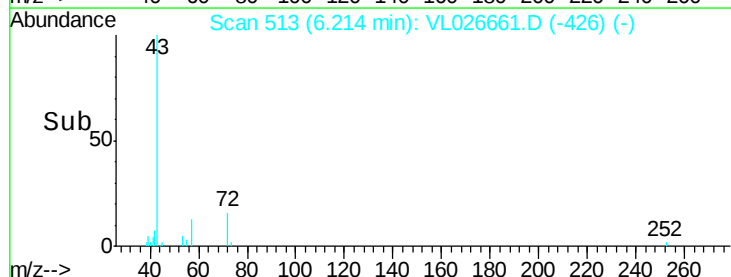
43 100

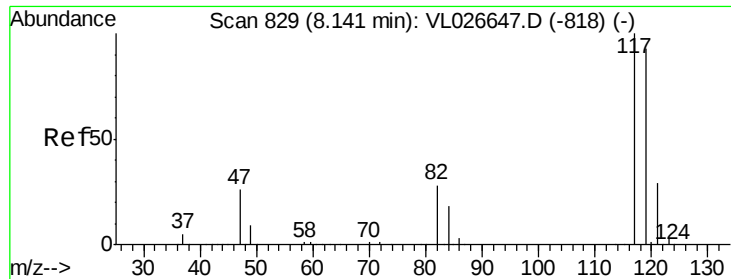
72 27.3 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





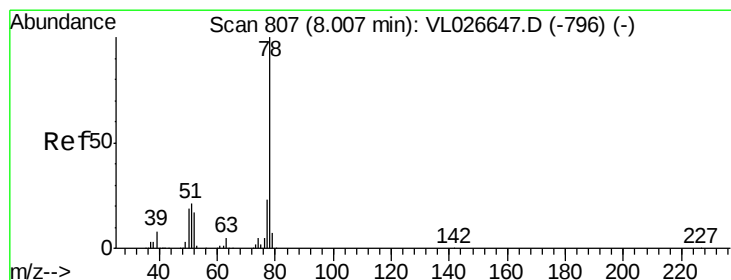
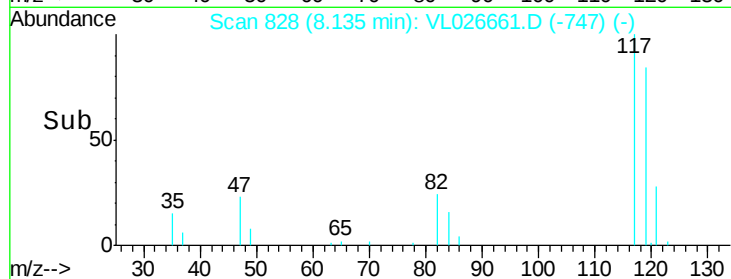
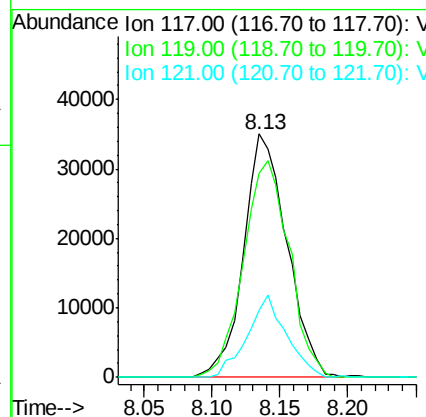
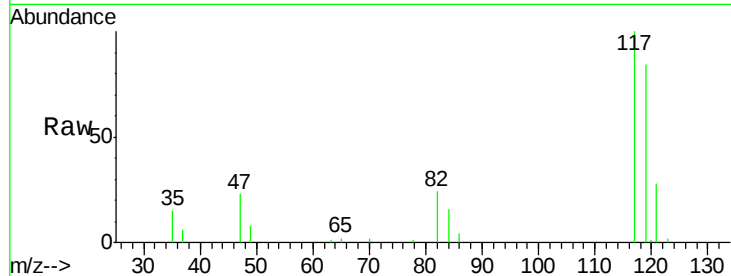
#35
Carbon Tetrachloride
Concen: 0.41 ppbv
RT: 8.13 min Scan# 828
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.6	74.7	112.1
121	27.7	23.1	34.7

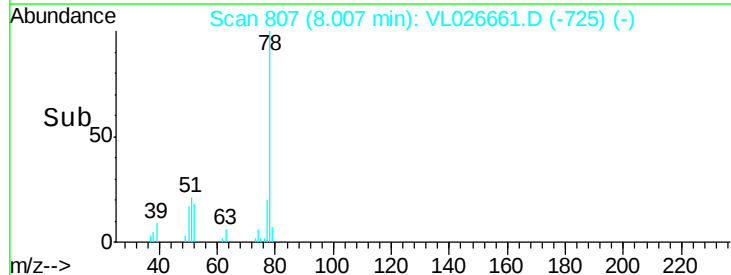
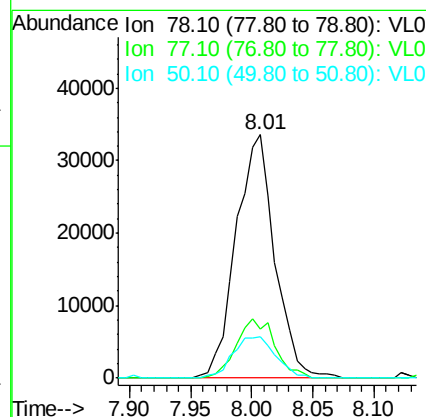
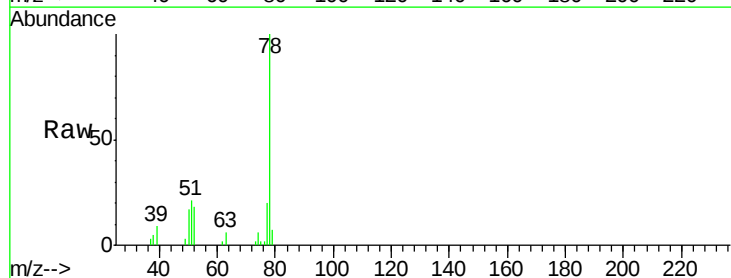
Manual Integrations
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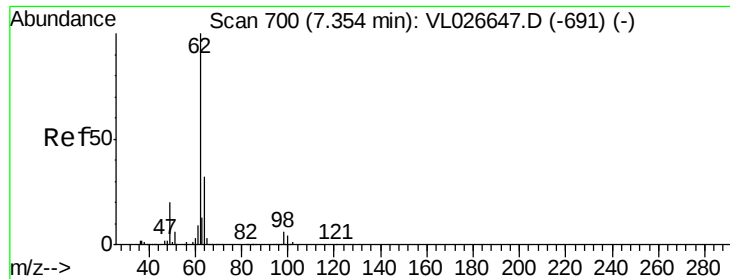
MMdadoda
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#36
Benzene
Concen: 0.34 ppbv
RT: 8.01 min Scan# 807
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.4	18.5	27.7
50	17.0	15.4	23.2





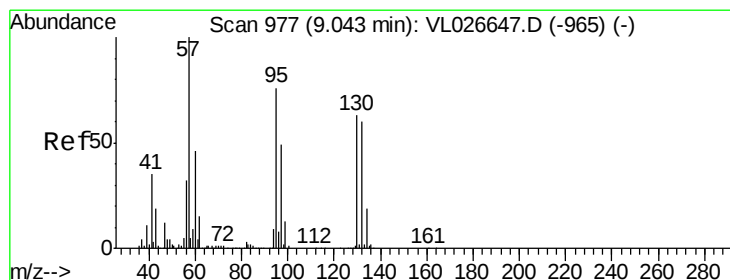
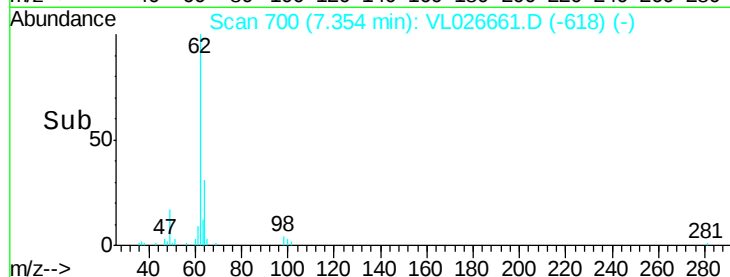
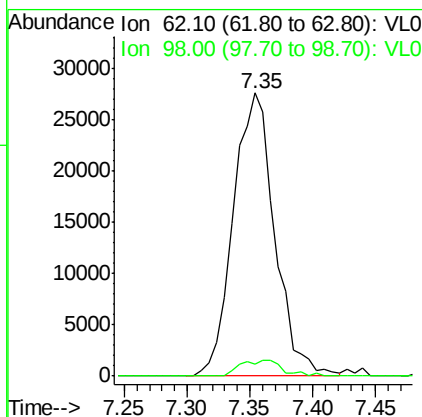
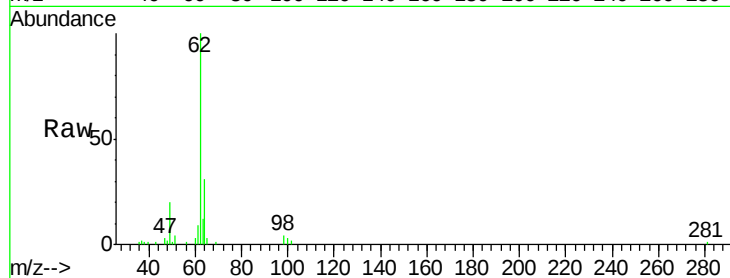
#37
 1,2-Dichloroethane
 Concen: 0.42 ppbv m
 RT: 7.35 min Scan# 700
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.9	4.8	7.2

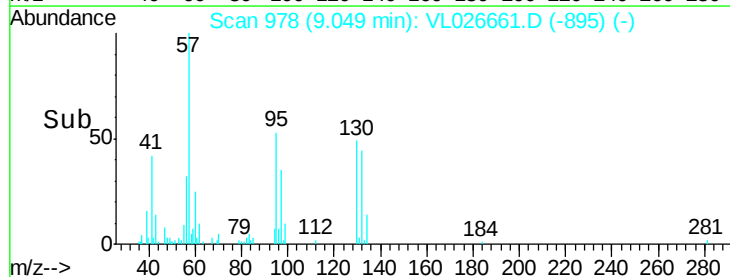
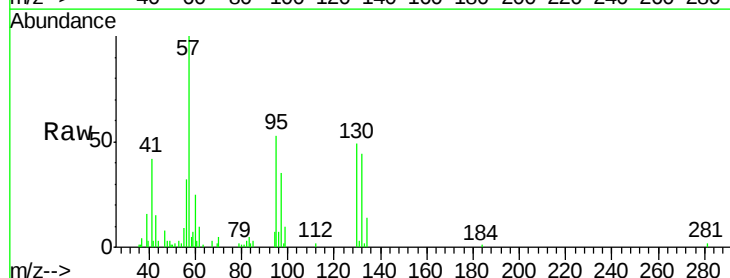
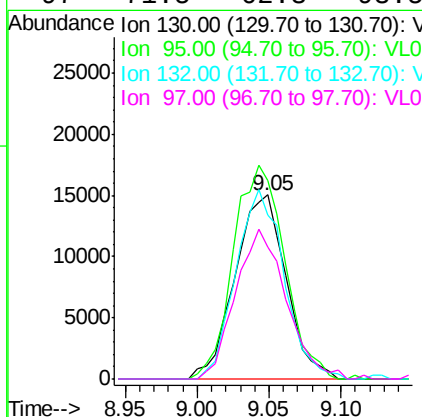
Manual Integrations
 APPROVED

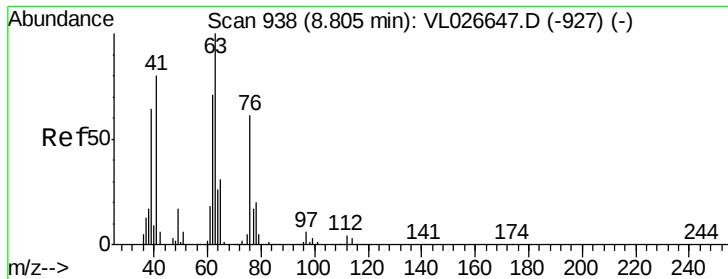
MMdadoda
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#38
 Trichloroethene
 Concen: 0.38 ppbv
 RT: 9.05 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.2	96.6	145.0
132	88.9	76.2	114.4
97	71.5	62.3	93.5





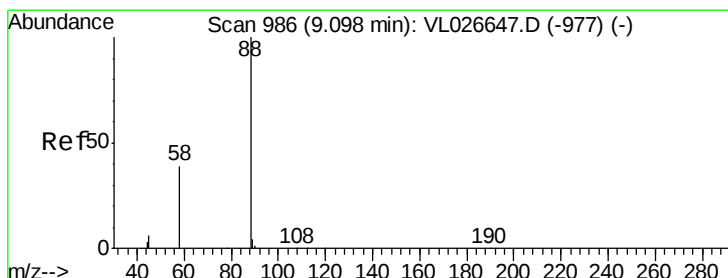
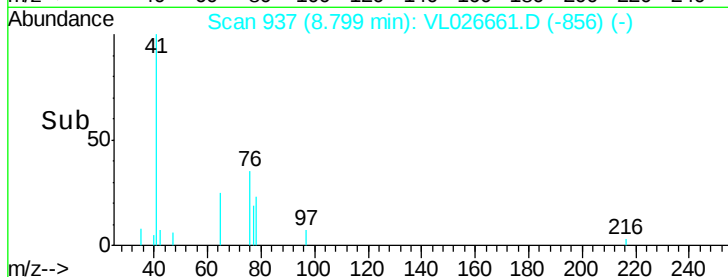
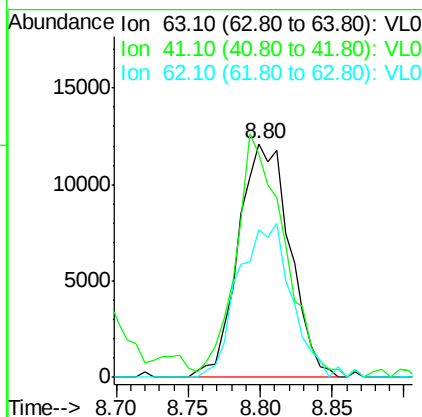
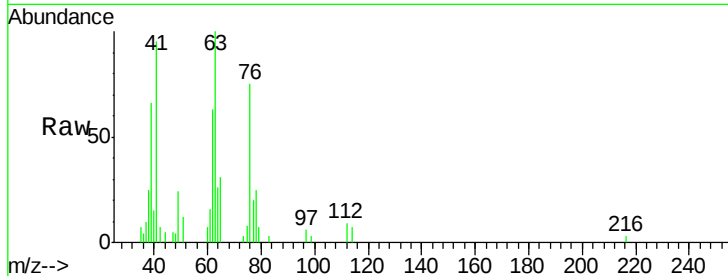
#39
 1,2-Dichloropropane
 Concen: 0.39 ppbv
 RT: 8.80 min Scan# 937
 Delta R.T. -0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
63	100		
41	92.1	64.1	96.1
62	63.1	56.6	84.8

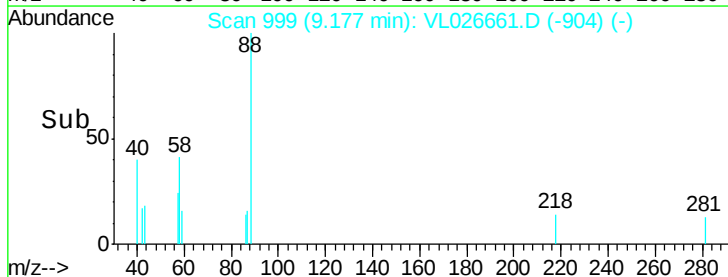
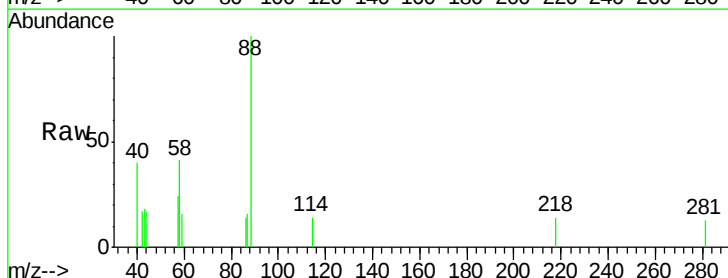
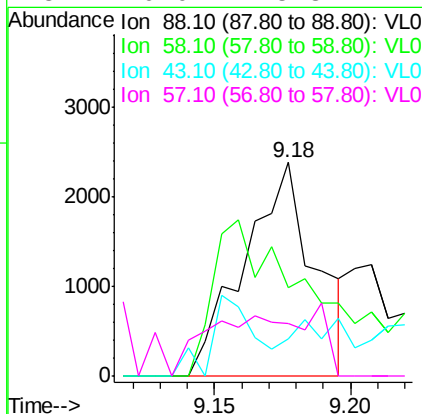
Manual Integrations
 APPROVED

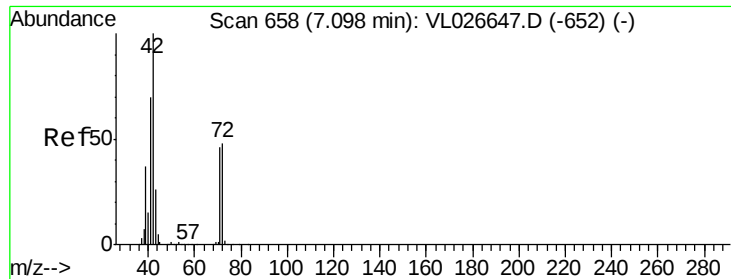
MMdadoda
 1/14/2016 10:51:17 AM



#40
 1,4-Dioxane
 Concen: 0.25 ppbv
 RT: 9.18 min Scan# 999
 Delta R.T. 0.08 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
88	100		
58	150.2	109.4	164.2
43	73.1	238.2	357.2#
57	0.0	1148.3	1722.5#





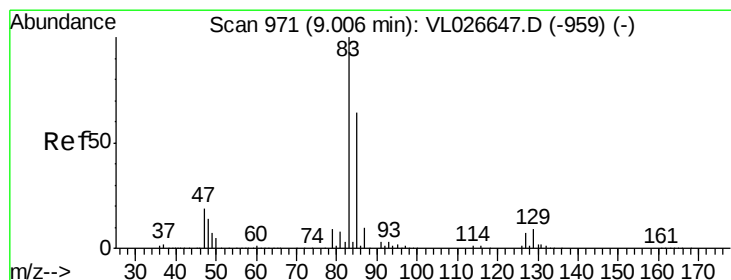
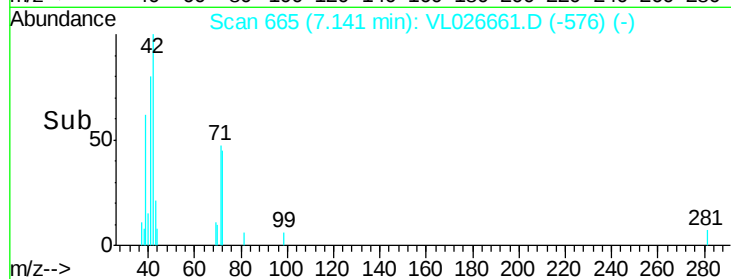
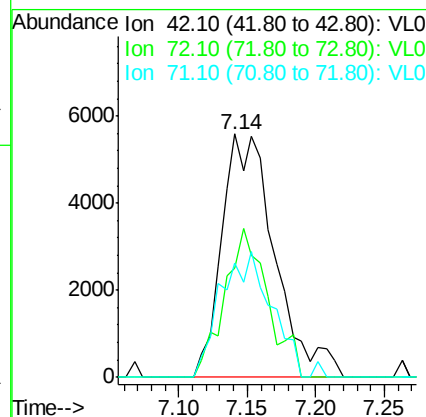
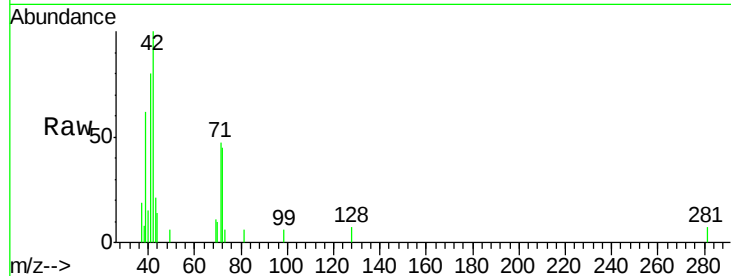
#41
Tetrahydrofuran
Concen: 0.27 ppbv m
RT: 7.14 min Scan# 665
Delta R.T. 0.04 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	40.6	60.8#
71	0.0	38.4	57.6#

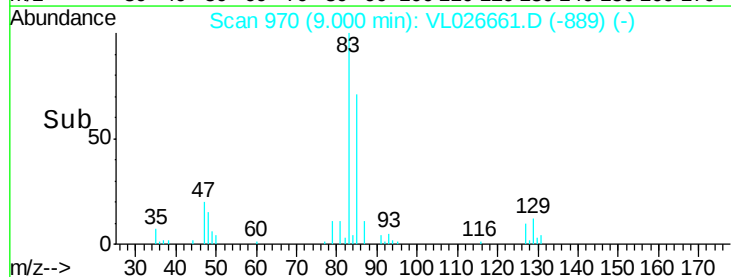
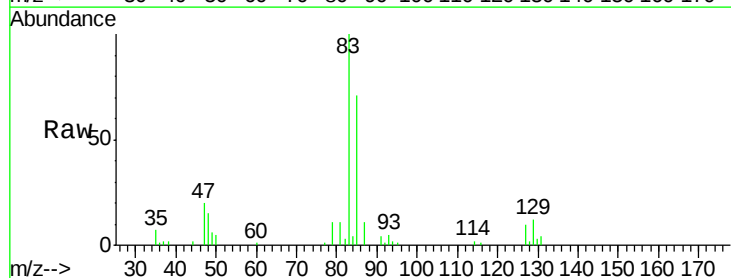
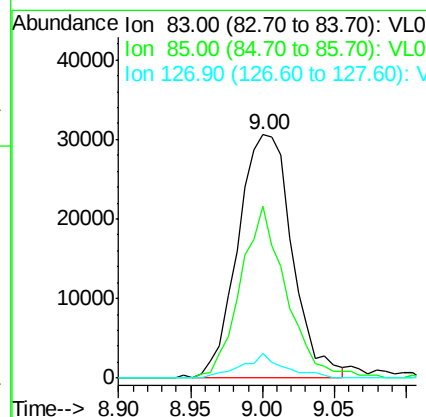
Manual Integrations
APPROVED

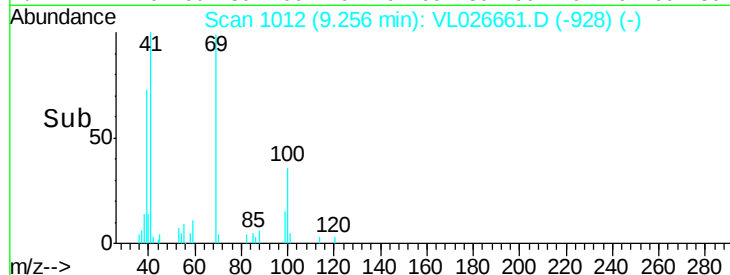
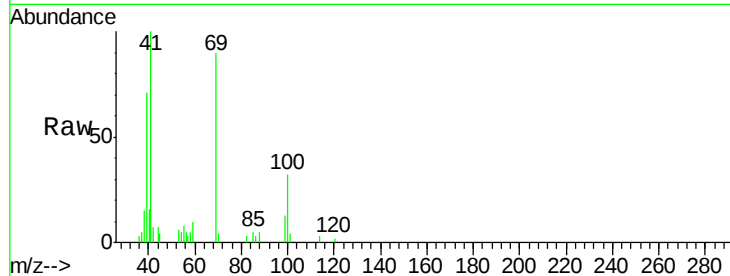
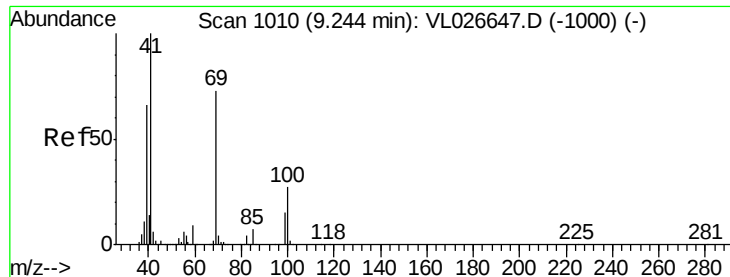
MMdadoda
1/14/2016 10:51:17 AM



#42
Bromodichloromethane
Concen: 0.41 ppbv
RT: 9.00 min Scan# 970
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.7	50.9	76.3
127	10.3	5.5	8.3#





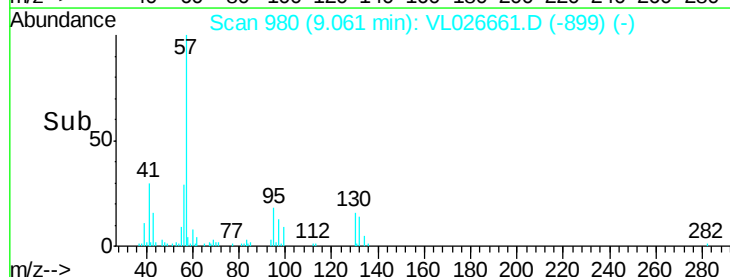
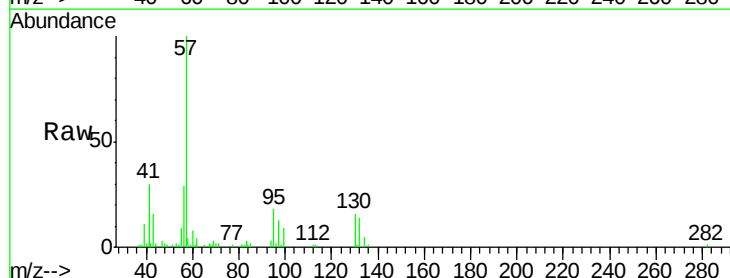
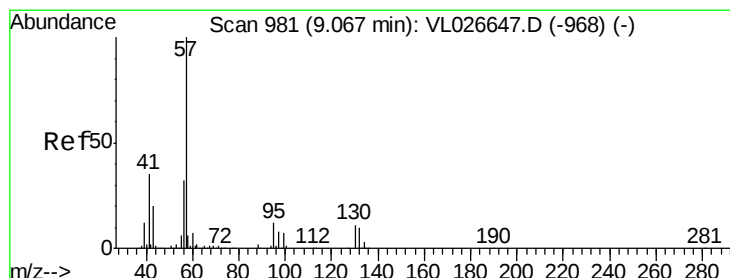
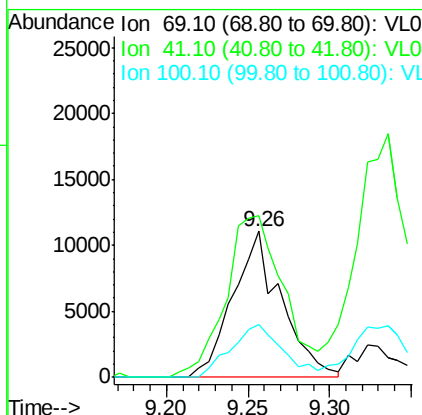
#43
Methvl Methacrilate
Concen: 0.28 ppbv
RT: 9.26 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tot Ion	Ratio	Lower	Upper
69	100		
41	128.7	106.1	159.1
100	41.8	29.0	43.4

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-3

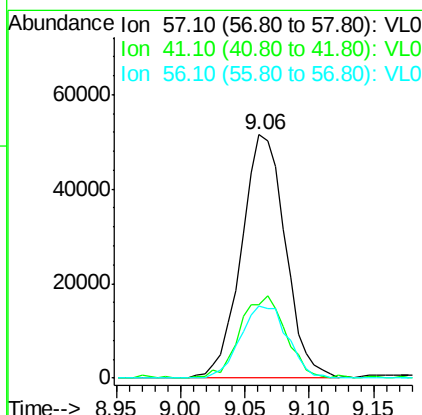
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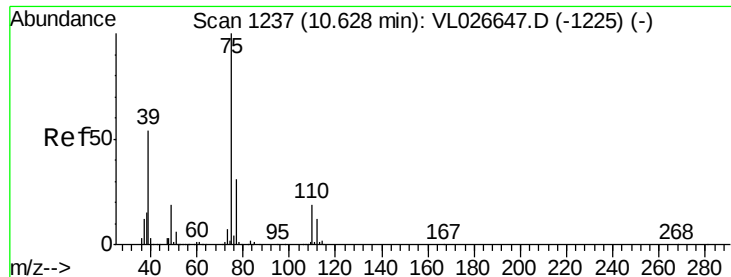
MMdadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.34 ppbv
RT: 9.06 min Scan# 980
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.6	26.9	40.3
56	31.7	25.4	38.0





#45

t-1,3-Dichloropropene

Concen: 0.27 ppbv

RT: 10.63 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-3

Tot Ion: 75 Resp: 35665

Ion Ratio Lower Upper

75 100

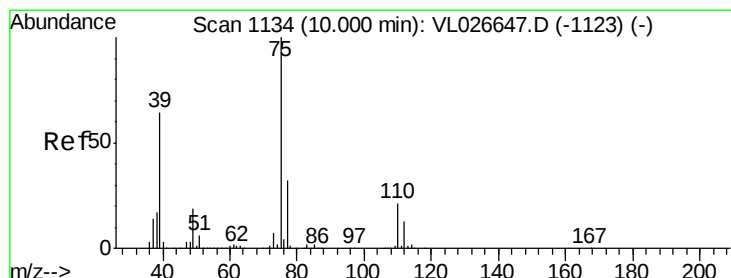
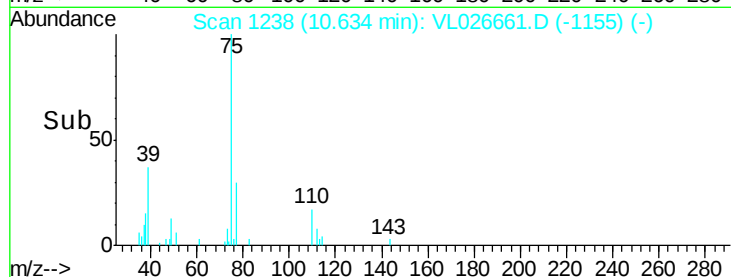
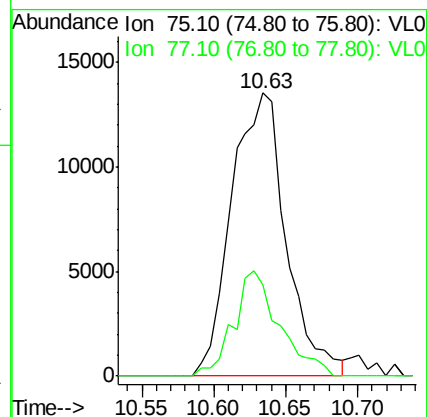
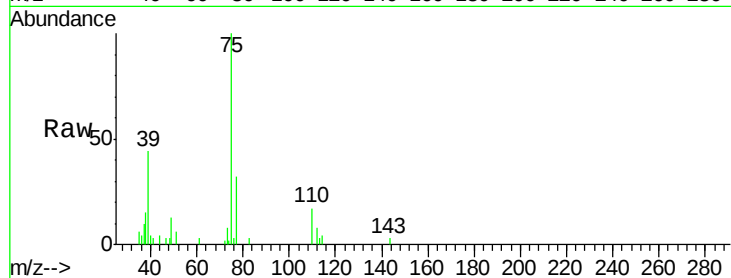
77 32.3 24.6 37.0

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#46

cis-1,3-Dichloropropene

Concen: 0.28 ppbv

RT: 10.00 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

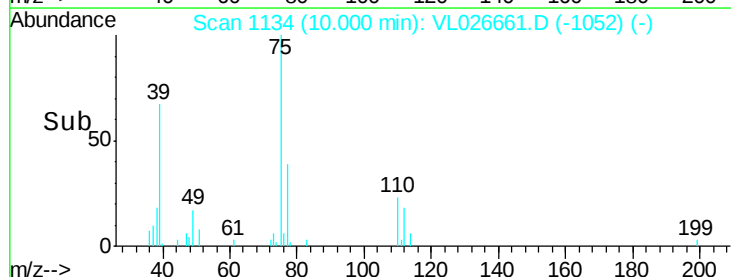
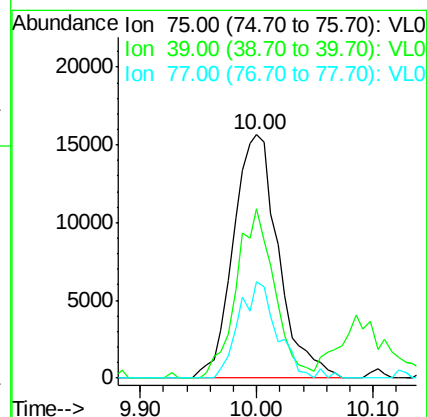
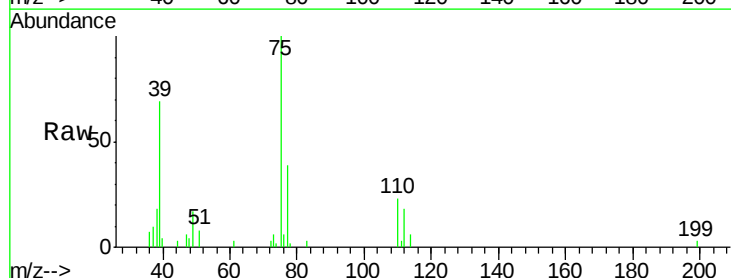
Tgt Ion: 75 Resp: 42195

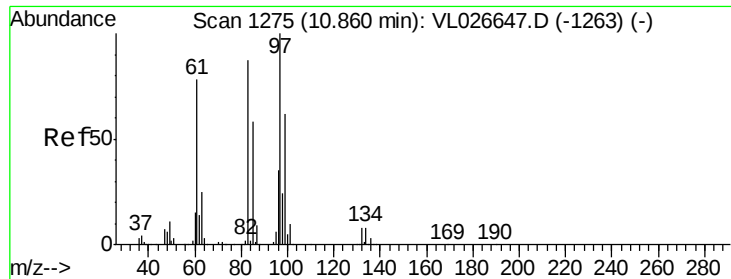
Ion Ratio Lower Upper

75 100

39 69.4 51.2 76.8

77 39.5 25.9 38.9#





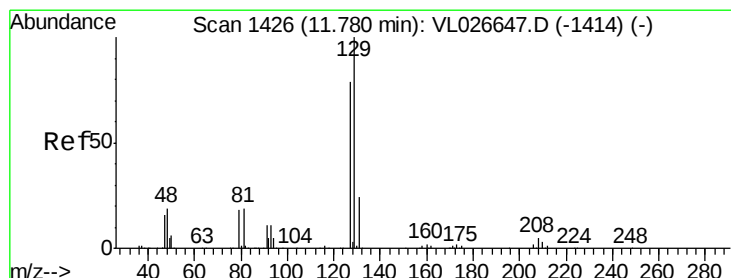
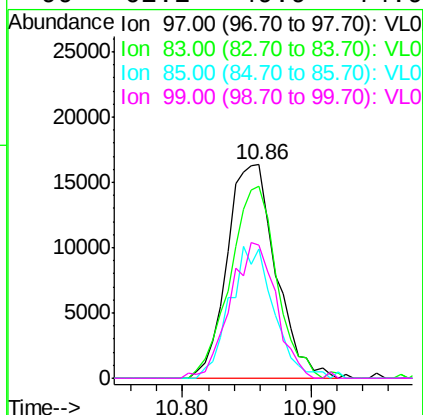
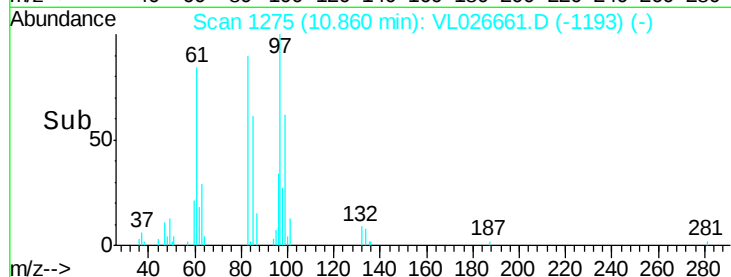
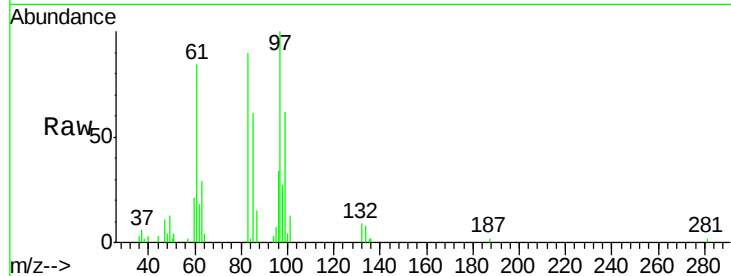
#47
 1,1,2-Trichloroethane
 Concen: 0.40 ppbv
 RT: 10.86 min Scan# 1275
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		43215		
83	89.8	69.5	104.3		
85	60.5	46.4	69.6		
99	62.2	49.9	74.9		

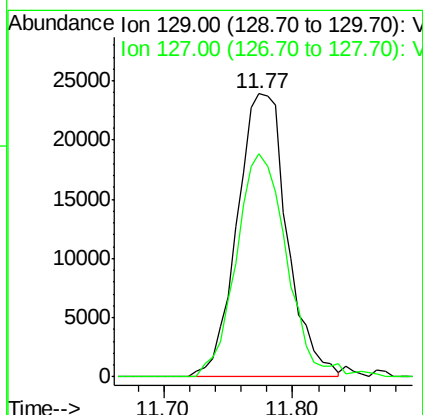
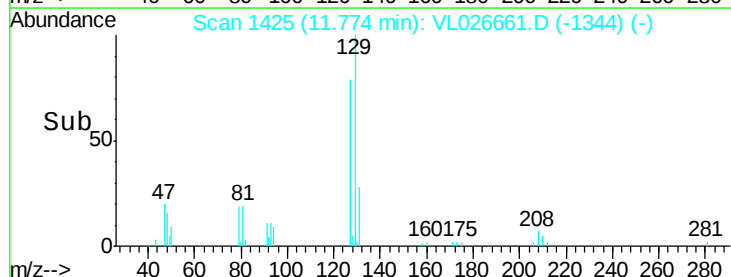
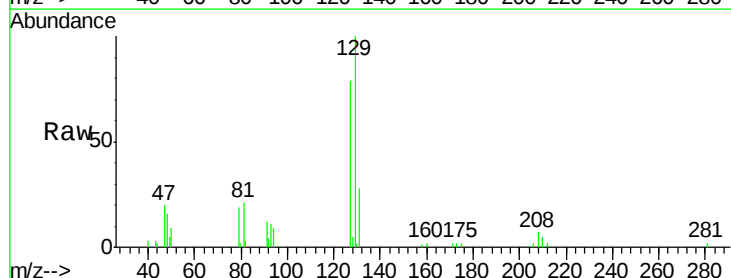
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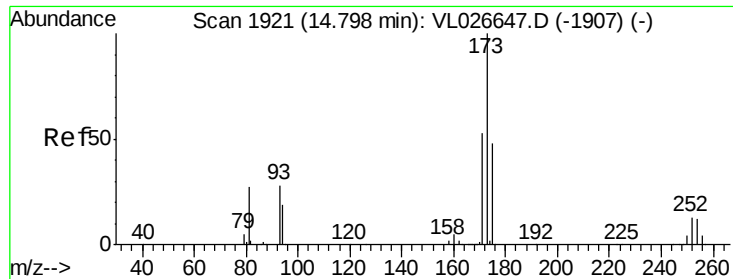
MMdadoda
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#48
 Dibromochloromethane
 Concen: 0.39 ppbv
 RT: 11.77 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		64149		
127	80.2	39.5	118.5		





#49

Bromoform

Concen: 0.39 ppbv

RT: 14.79 min Scan# 1919

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

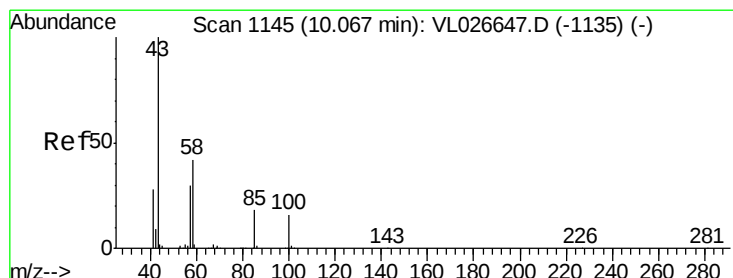
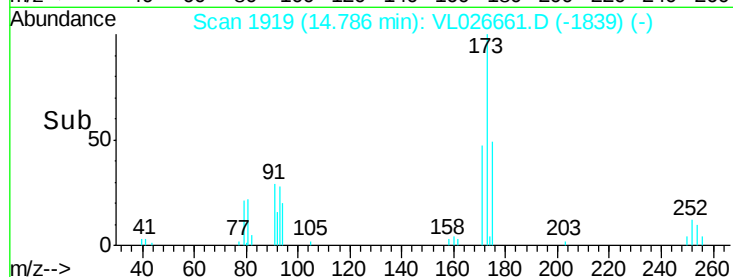
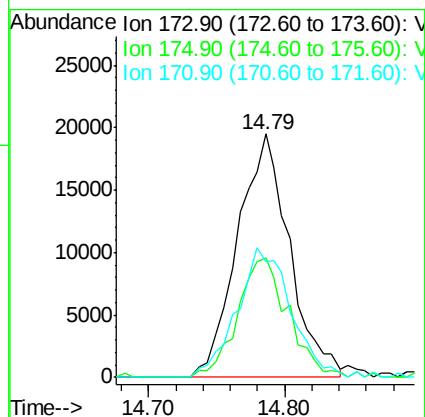
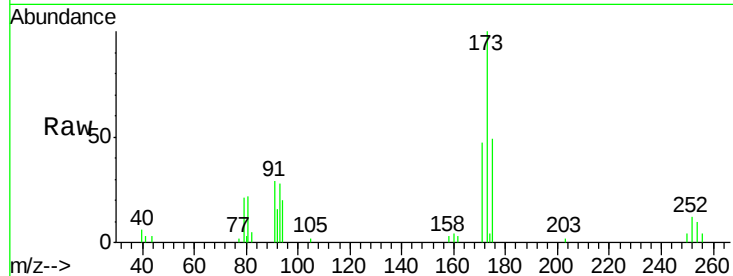
ClientSampled :

MDL-AIR-3

Tot Ion:	173	Resp:	52066
Ion Ratio	Lower	Upper	
173	100		
175	48.3	38.6	58.0
171	55.7	41.5	62.3

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.28 ppbv

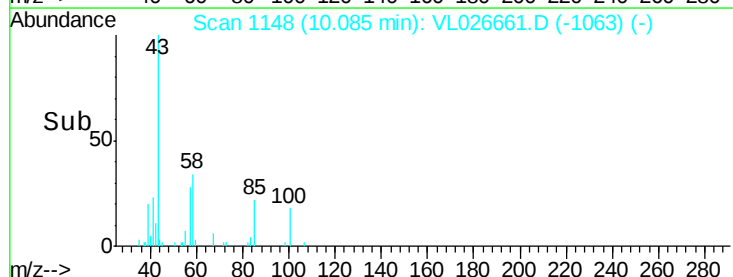
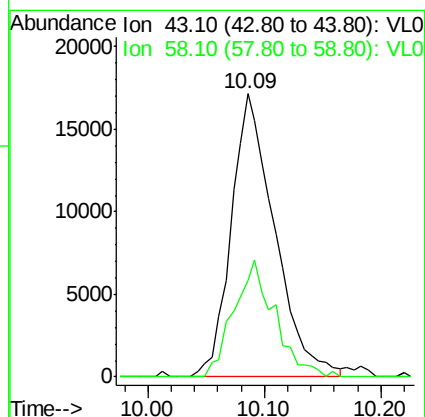
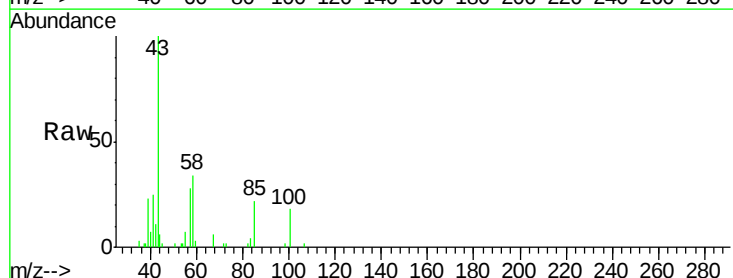
RT: 10.09 min Scan# 1148

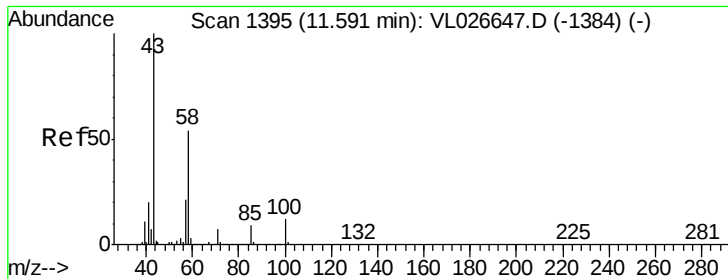
Delta R.T. 0.02 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion:	43	Resp:	44410
Ion Ratio	Lower	Upper	
43	100		
58	38.8	32.4	48.6





#51

2-Hexanone

Concen: 0.25 ppbv

RT: 11.62 min Scan# 1400

Delta R.T. 0.03 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

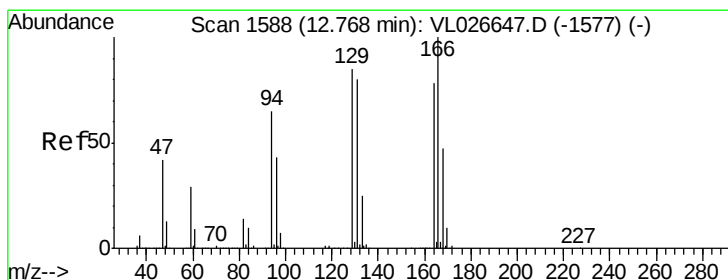
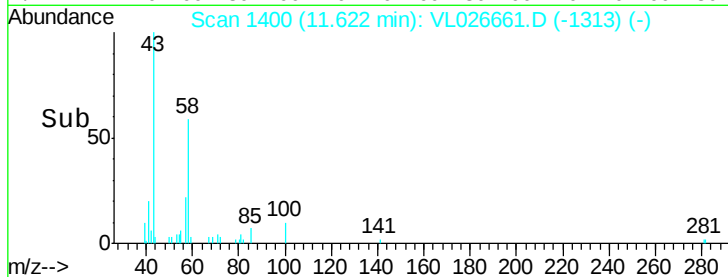
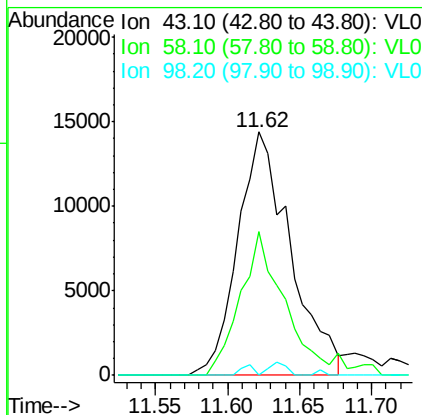
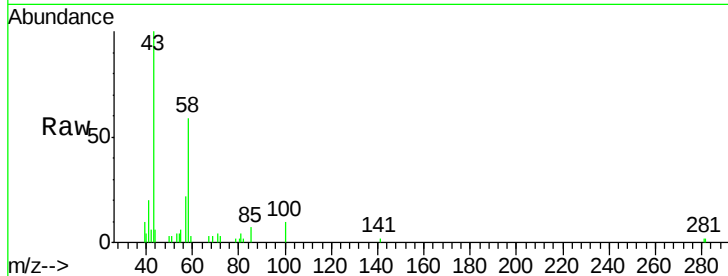
ClientSampleId :

MDL-AIR-3

Tot Ion:	43	Resp:	36523
Ion Ratio	Lower	Upper	
43	100		
58	52.3	44.9	67.3
98	3.1	0.2	0.2#

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#52

Tetrachloroethene

Concen: 0.39 ppbv

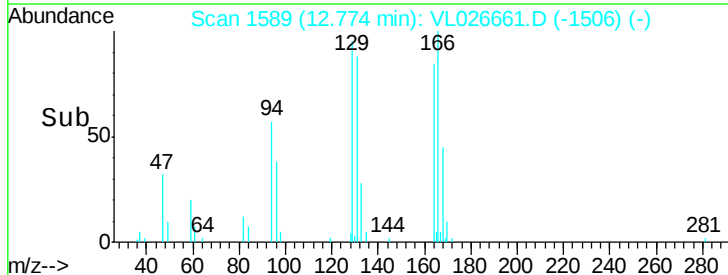
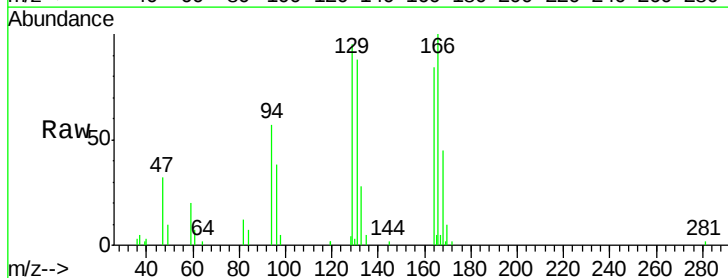
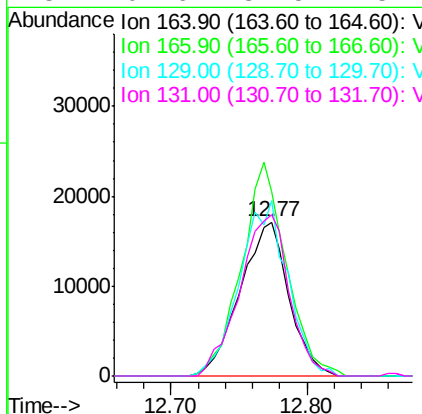
RT: 12.77 min Scan# 1589

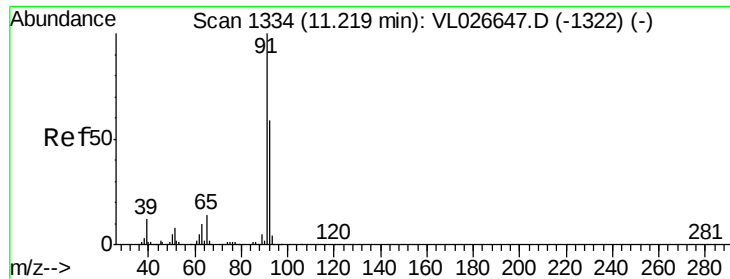
Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion:	164	Resp:	42893
Ion Ratio	Lower	Upper	
164	100		
166	119.3	102.5	153.7
129	113.6	87.0	130.6
131	104.6	82.5	123.7





#53

Toluene

Concen: 0.32 ppbv

RT: 11.21 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 91 Resp: 100491

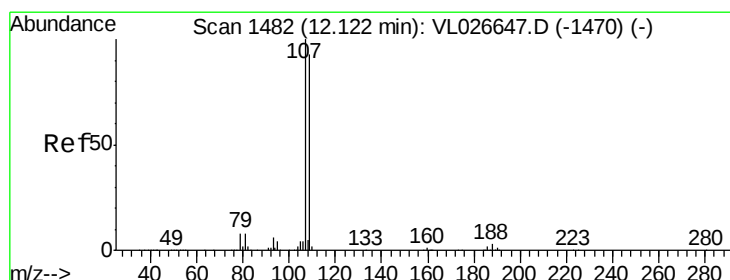
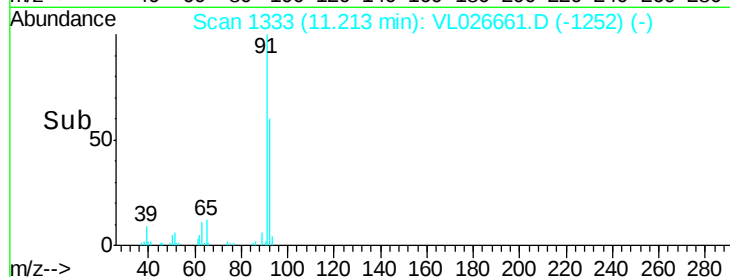
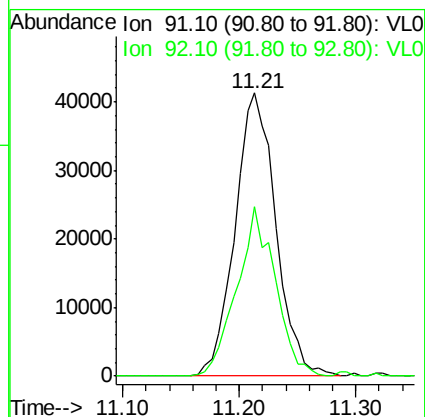
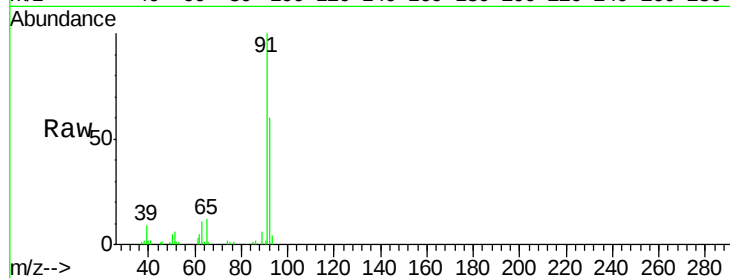
Ion Ratio Lower Upper

91 100

92 56.8 48.2 72.4

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 0.41 ppbv

RT: 12.12 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL026661.D

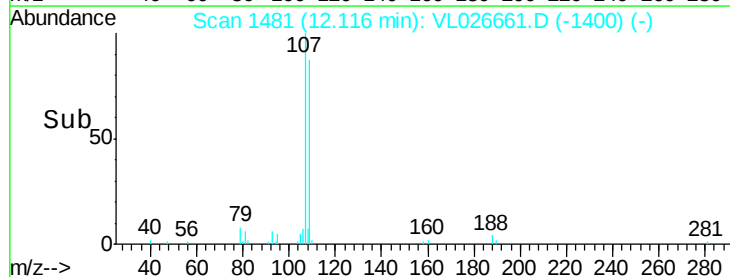
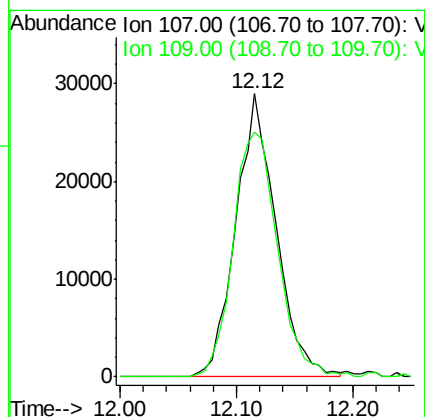
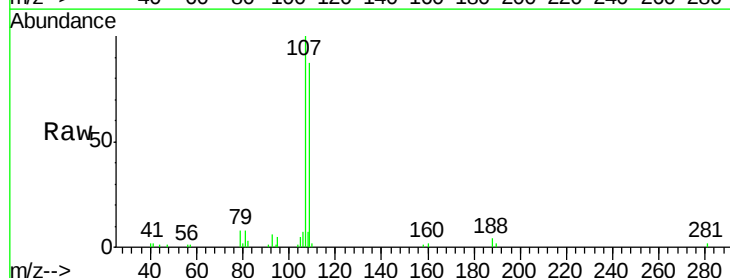
Acq: 9 Jan 2016 5:09

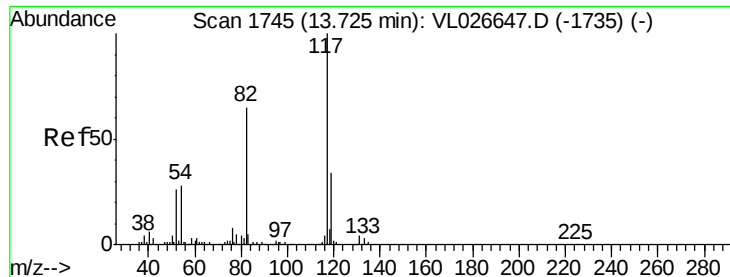
Tgt Ion: 107 Resp: 69819

Ion Ratio Lower Upper

107 100

109 86.7 74.1 111.1





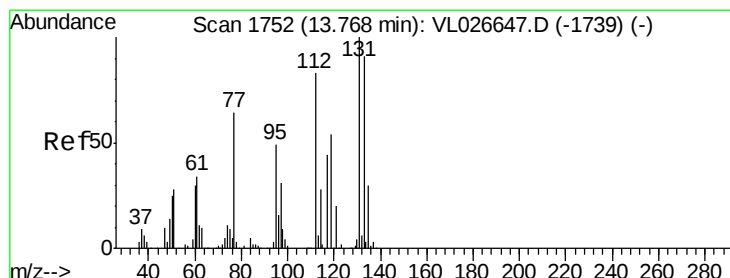
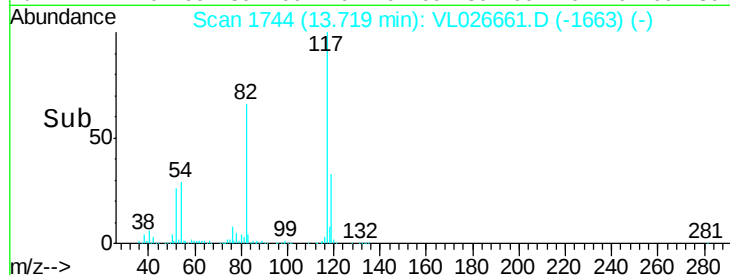
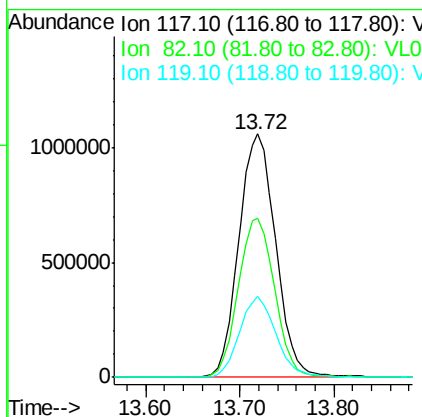
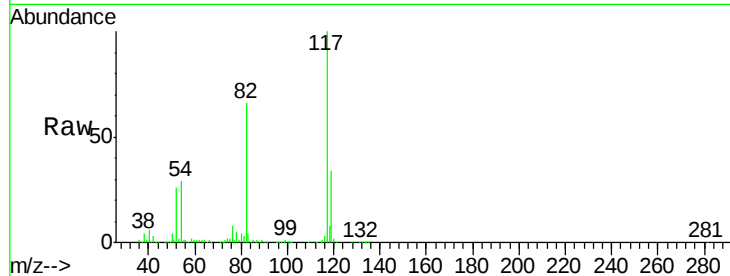
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.72 min Scan# 1744
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion:117 Resp: 2885040
Ion Ratio Lower Upper
117 100
82 65.0 49.7 74.5
119 33.2 43.8 65.8#

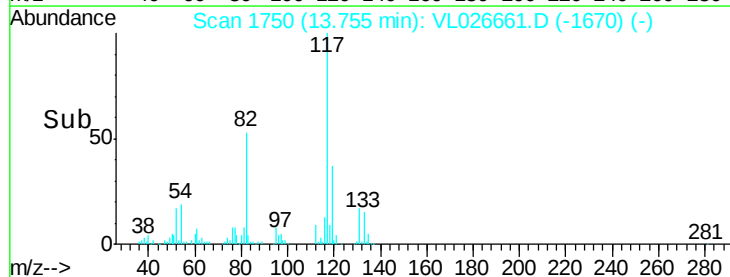
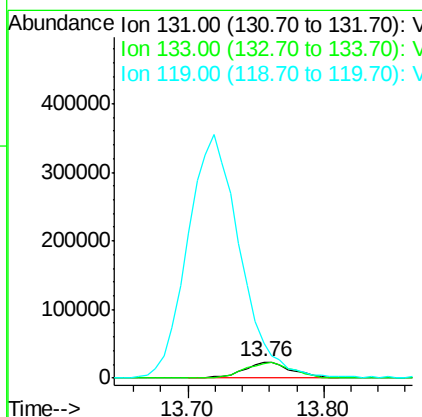
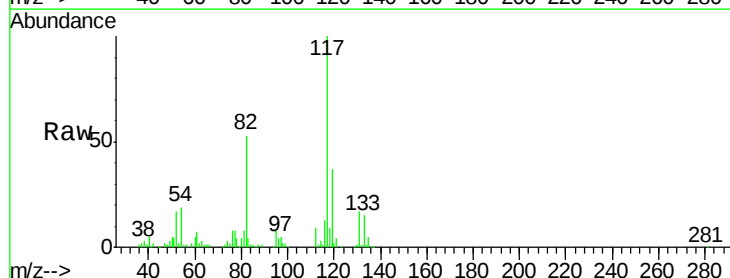
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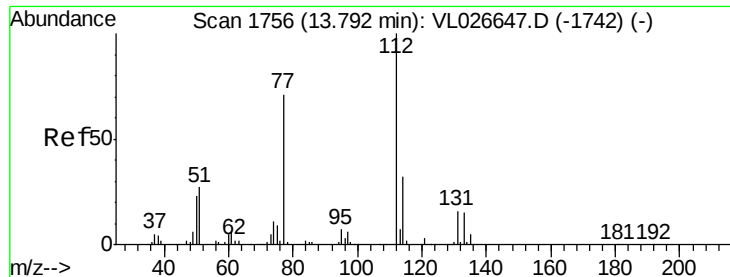
MMdadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.43 ppbv
RT: 13.76 min Scan# 1750
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion:131 Resp: 56643
Ion Ratio Lower Upper
131 100
133 98.9 76.2 114.4
119 1691.0 104.3 156.5#





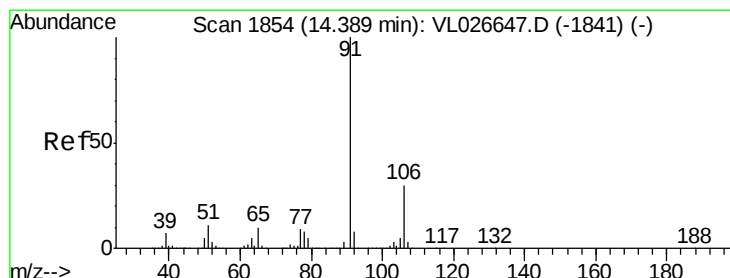
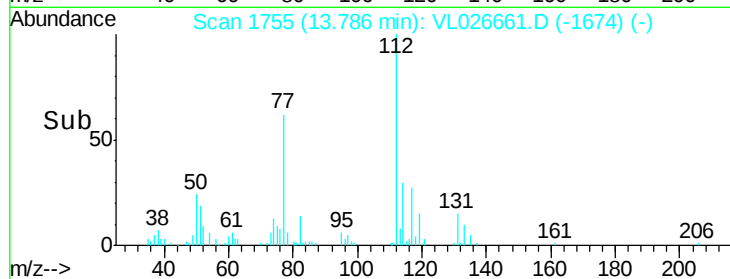
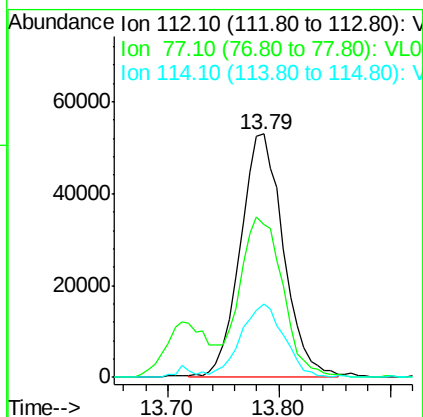
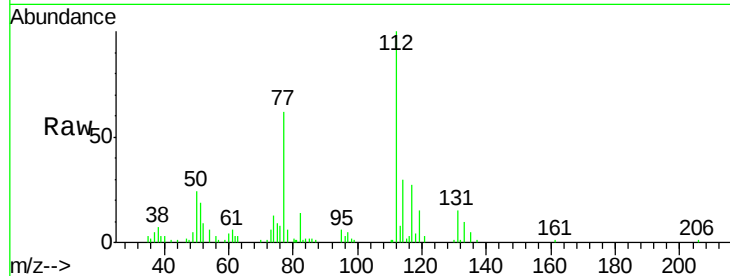
#57
Chlorobenzene
Concen: 0.48 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
112	100		
77	61.7	56.9	85.3
114	29.6	28.8	35.2

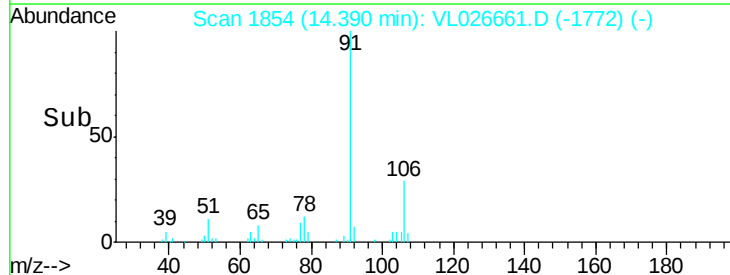
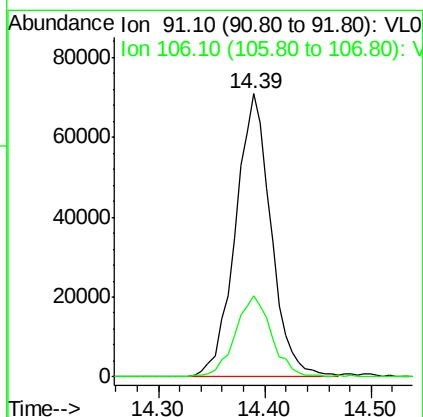
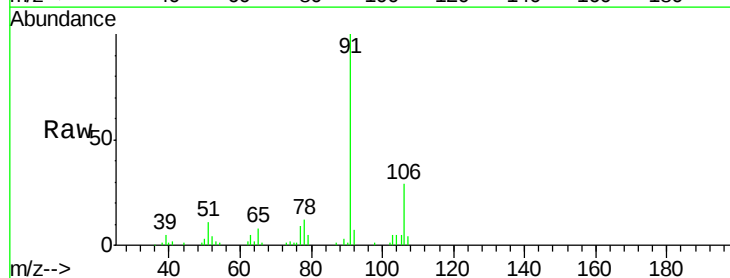
Manual Integrations
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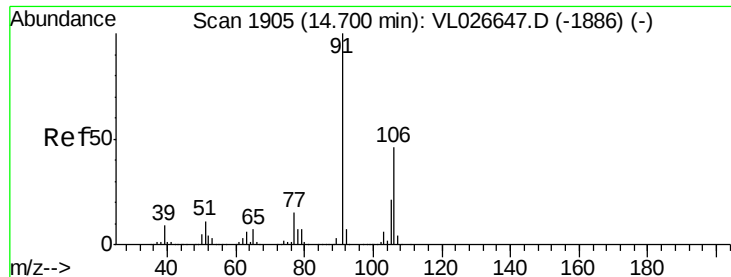
MMdadoda
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#58
Ethyl Benzene
Concen: 0.32 ppbv
RT: 14.39 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.7	23.8	35.6





#59

m/p-Xylene

Concen: 0.77 ppbv

RT: 14.69 min Scan# 1903

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 91 Resp: 326847

Ion Ratio Lower Upper

91 100

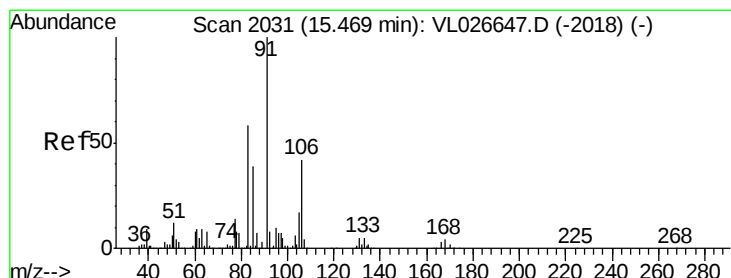
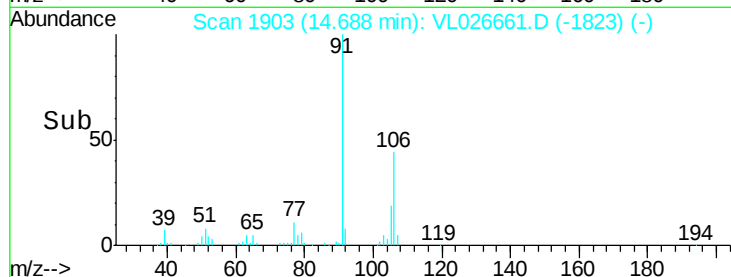
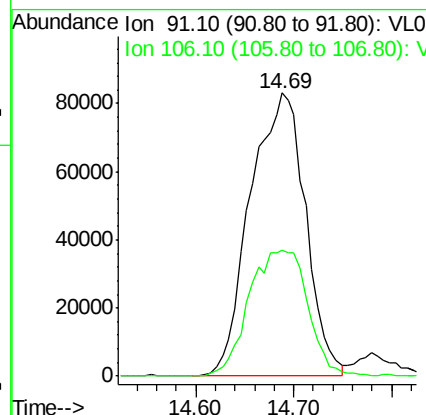
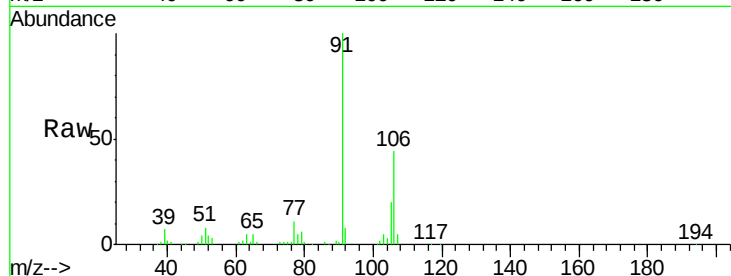
106 47.4 36.6 55.0

Manual Integrations

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#60

o-Xylene

Concen: 0.43 ppbv

RT: 15.47 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VL026661.D

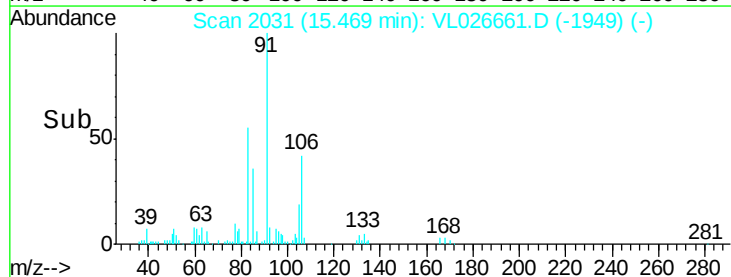
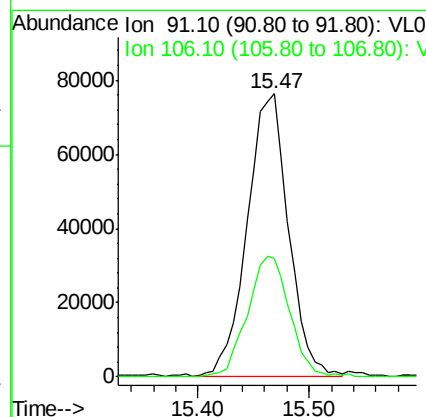
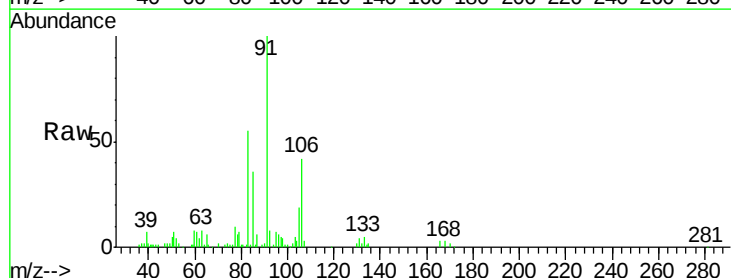
Acq: 9 Jan 2016 5:09

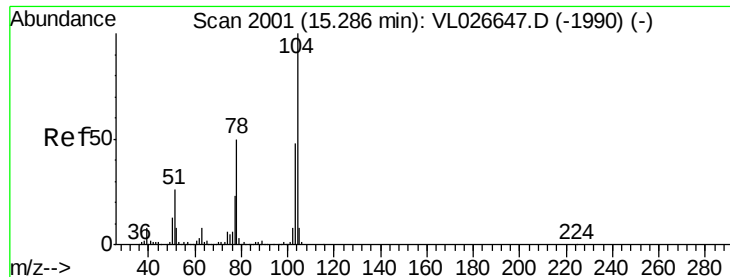
Tgt Ion: 91 Resp: 197632

Ion Ratio Lower Upper

91 100

106 43.6 21.5 64.5





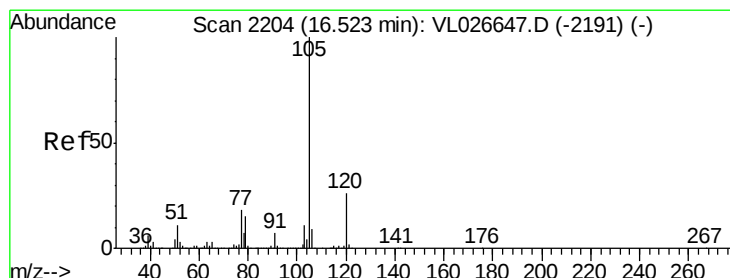
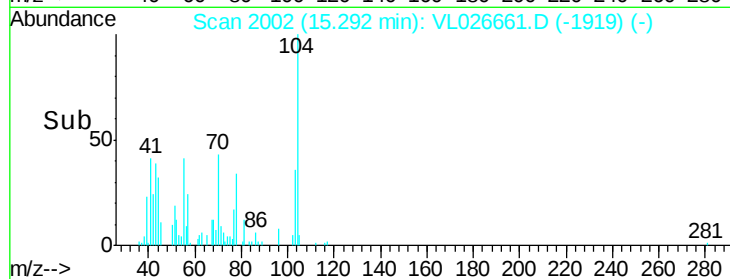
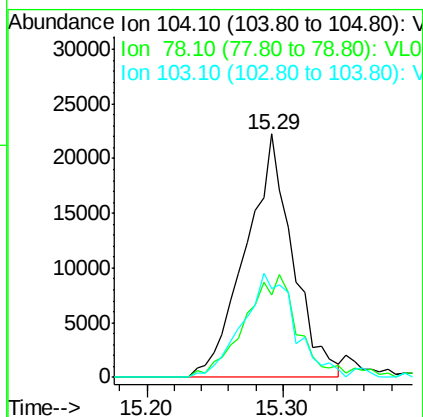
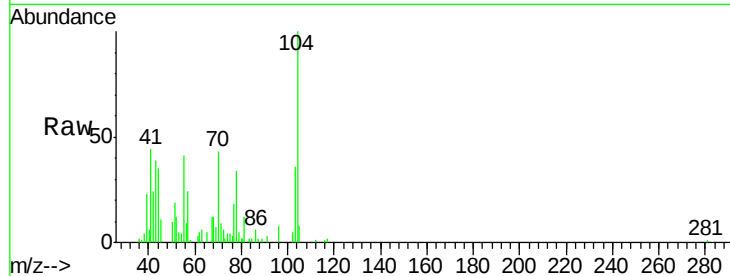
#61
Stvrene
Concen: 0.30 ppbv
RT: 15.29 min Scan# 2002
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.4	39.6	59.4
103	48.7	37.8	56.6

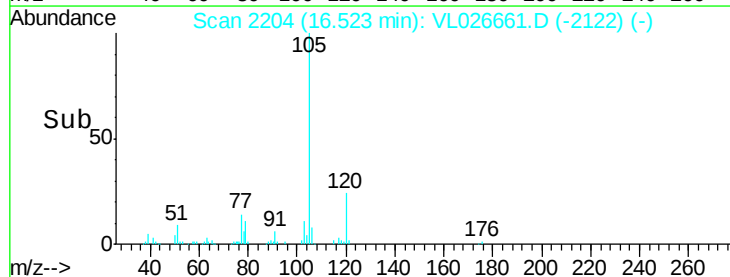
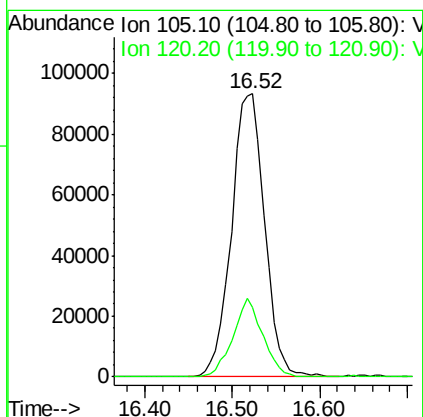
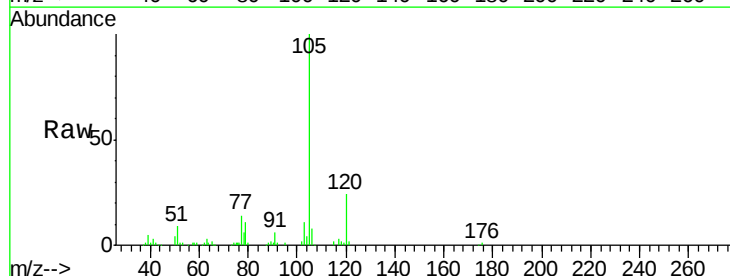
Manual Integrations
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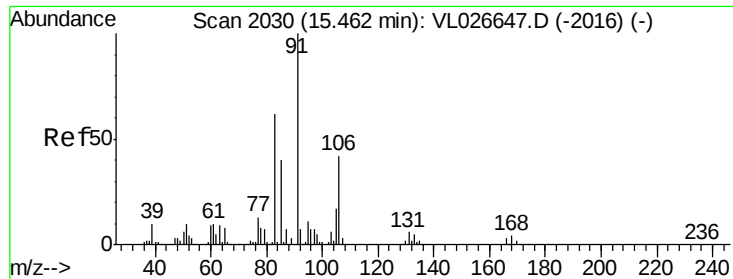
MMdadoda
1/14/2016 10:51:17 AM



#62
Isopropylbenzene
Concen: 0.40 ppbv
RT: 16.52 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.3	30.5





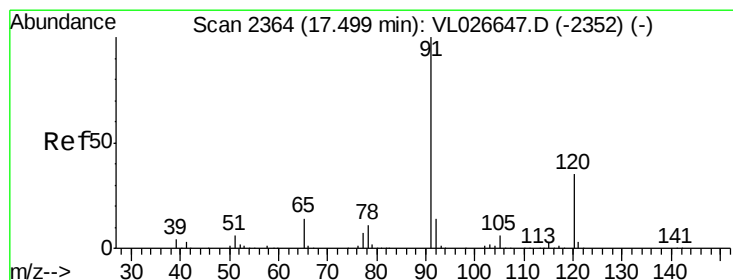
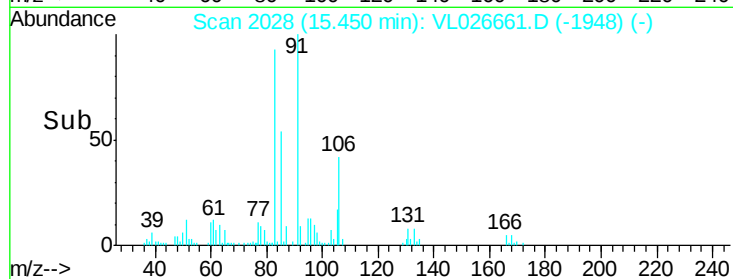
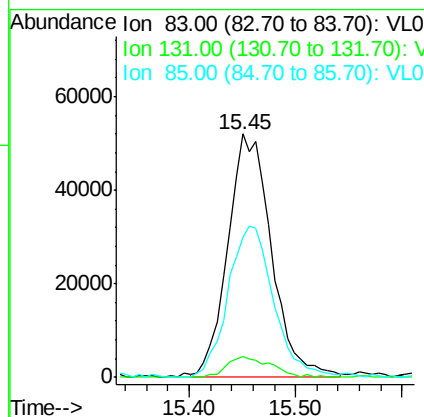
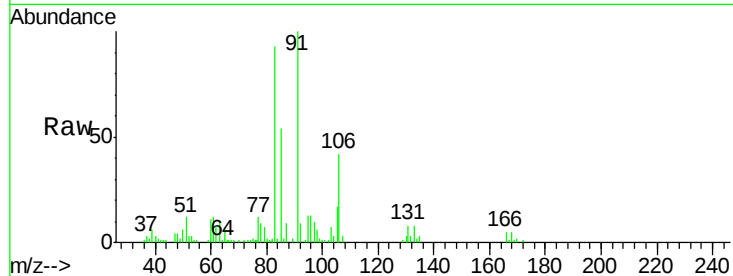
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.44 ppbv
 RT: 15.45 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Resp	Lower	Upper
83	100	149632		
131	8.6	4.5	13.4	
85	65.7	32.6	97.7	

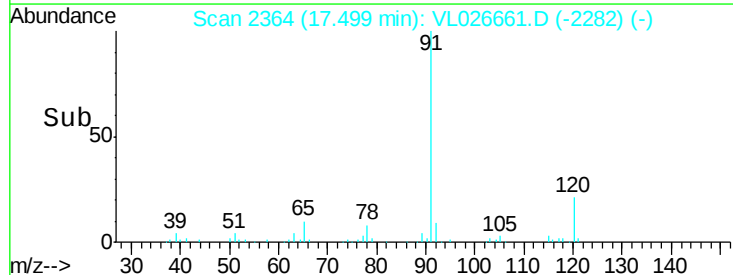
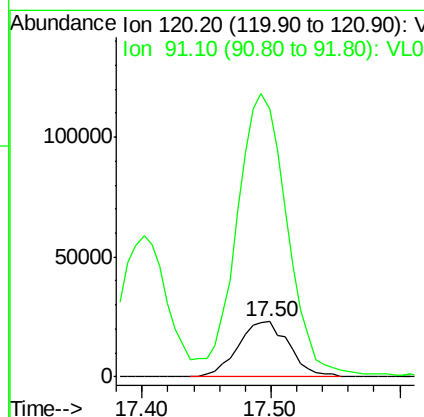
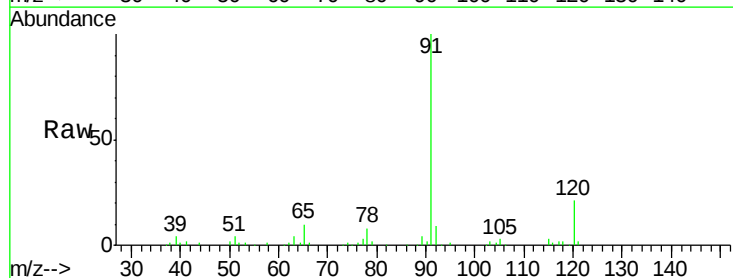
Manual Integrations
 APPROVED

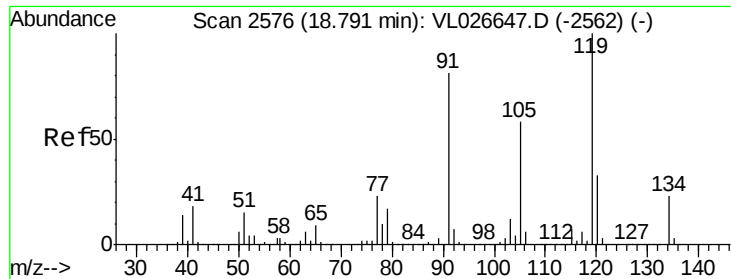
MMdadoda
 1/14/2016 10:51:17 AM



#64
 n-propylbenzene
 Concen: 0.39 ppbv
 RT: 17.50 min Scan# 2364
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	63590		
91	503.7	375.8	563.6	





#65

tert-Butylbenzene

Concen: 0.42 ppbv

RT: 18.79 min Scan# 2575

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

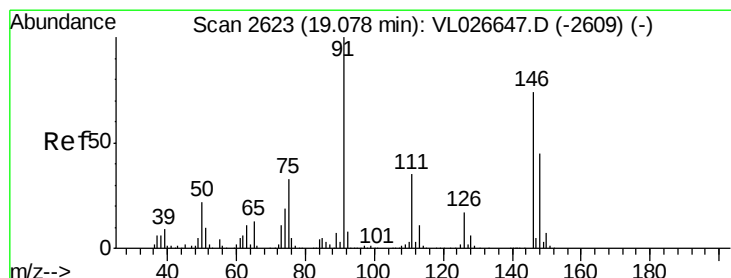
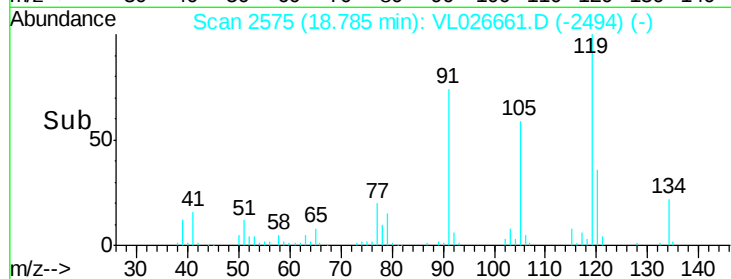
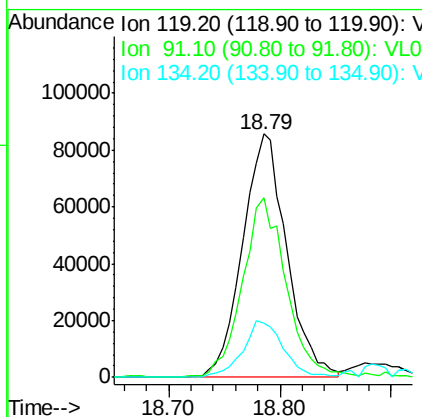
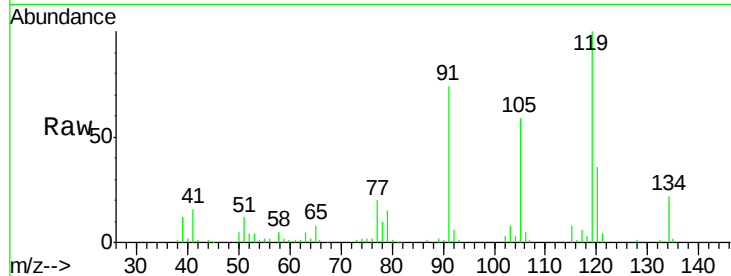
ClientSampleId :

MDL-AIR-3

Tot Ion	Ratio	Resp	Lower	Upper
119	100	235875		
91	74.5	64.8	97.2	
134	22.0	17.4	26.0	

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.30 ppbv

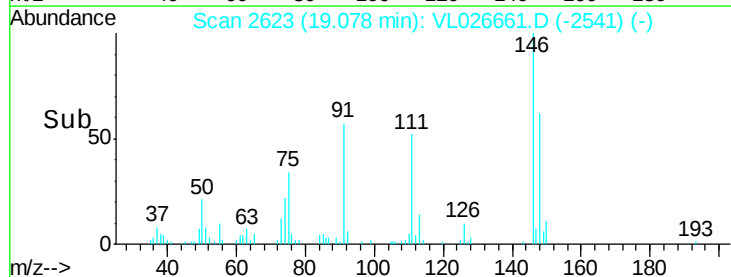
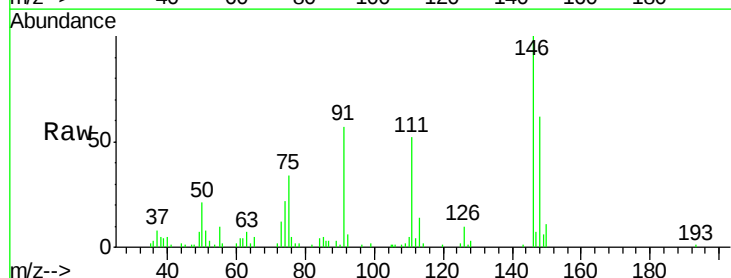
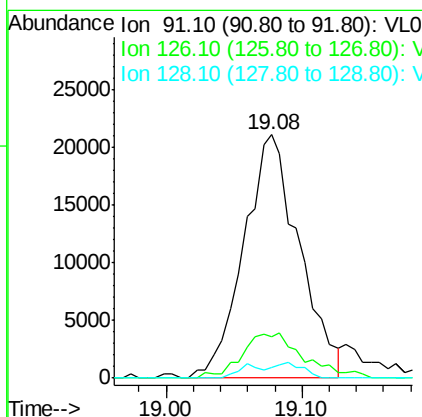
RT: 19.08 min Scan# 2623

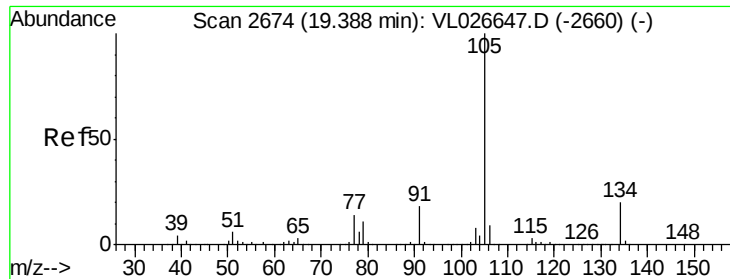
Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	60039		
126	20.4	14.2	21.2	
128	5.8	4.5	6.7	





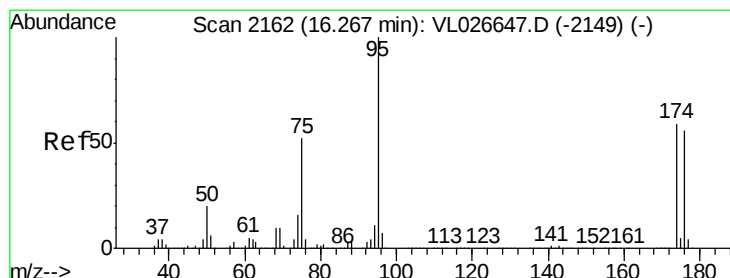
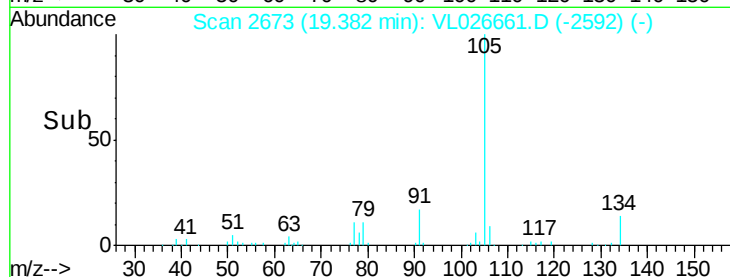
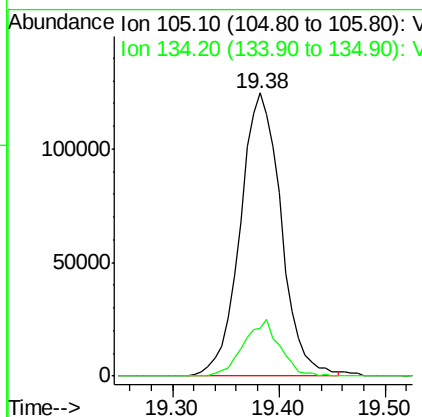
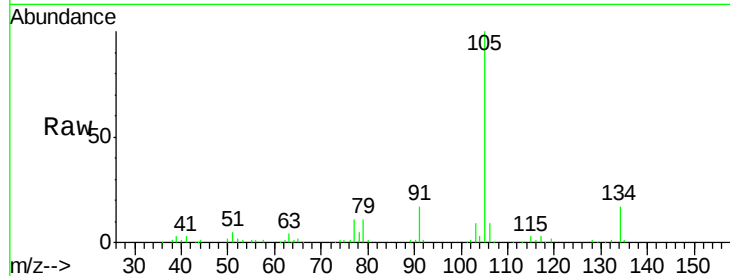
#67
 sec-Butylbenzene
 Concen: 0.41 ppbv
 RT: 19.38 min Scan# 2673
 Delta R.T. -0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.8	14.9	22.3

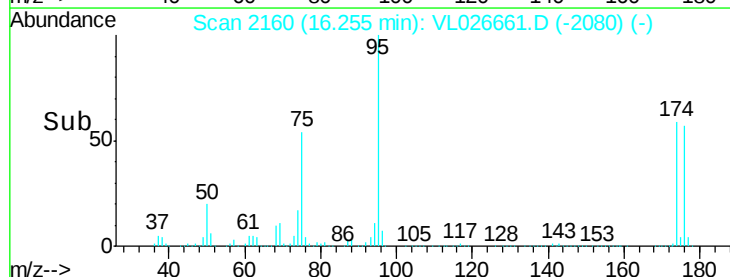
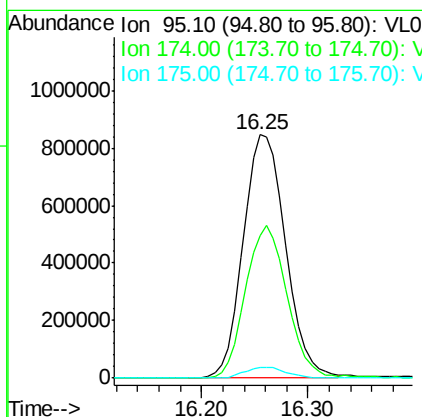
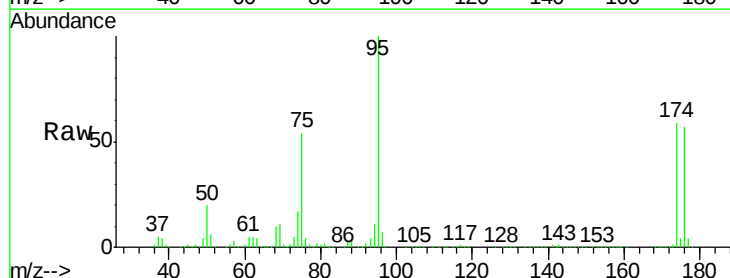
Manual Integrations
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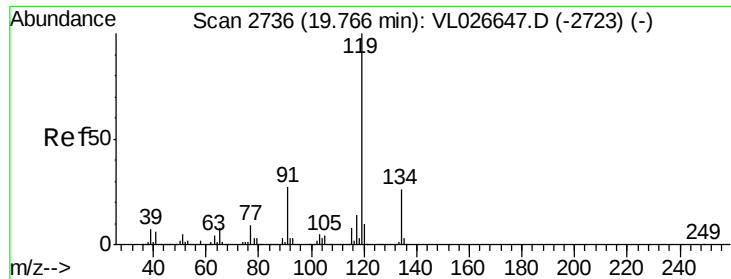
MMdadoda
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.29 ppbv
 RT: 16.25 min Scan# 2160
 Delta R.T. -0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	62.4	47.8	71.8
175	4.4	3.6	5.4





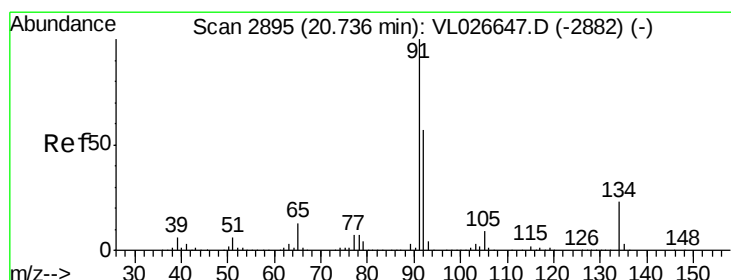
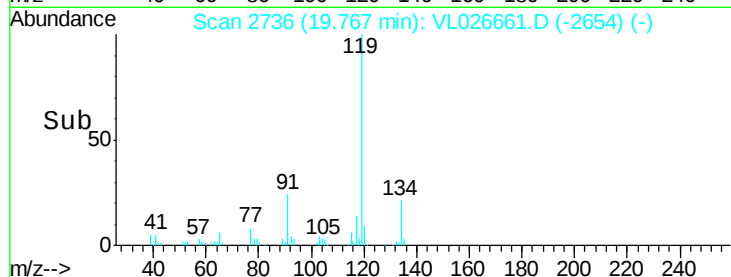
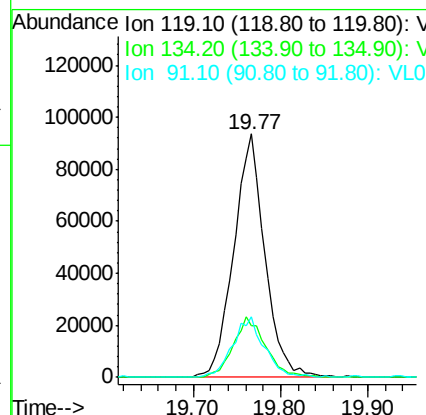
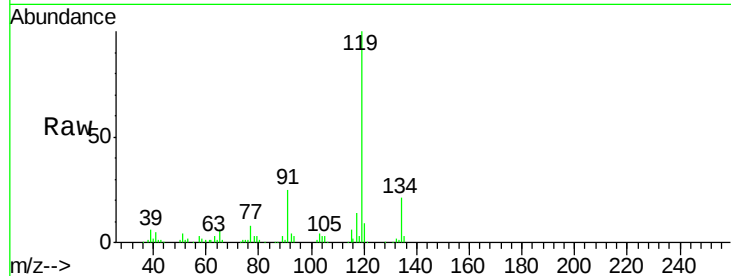
#69
 p-Isopropyltoluene
 Concen: 0.37 ppbv
 RT: 19.77 min Scan# 2736
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Resp	Lower	Upper
119	100	231281		
134	25.9	20.6	31.0	
91	25.2	21.7	32.5	

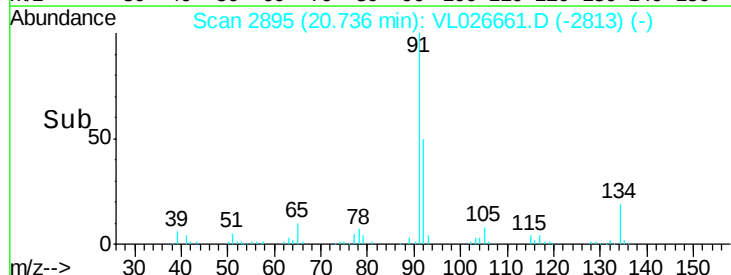
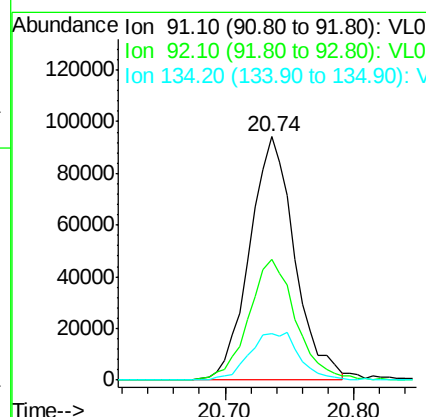
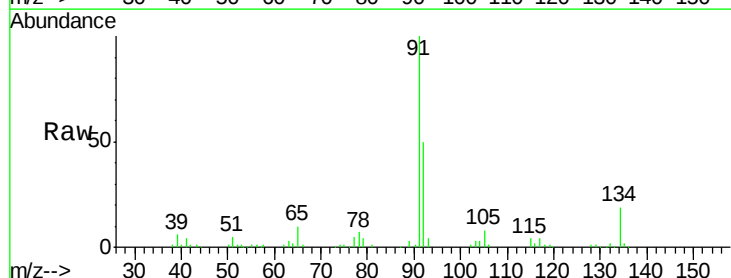
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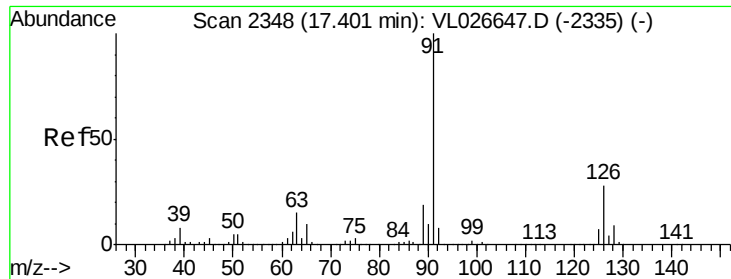
MMdadoda
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#70
 n-Butylbenzene
 Concen: 0.35 ppbv
 RT: 20.74 min Scan# 2895
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	228272		
92	52.1	45.0	67.4	
134	21.6	18.2	27.2	





#71

2-Chlorotoluene

Concen: 0.32 ppbv

RT: 17.40 min Scan# 2348

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 91 Resp: 151666

Ion Ratio Lower Upper

91 100

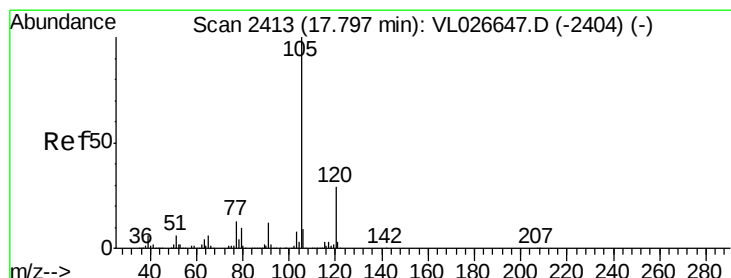
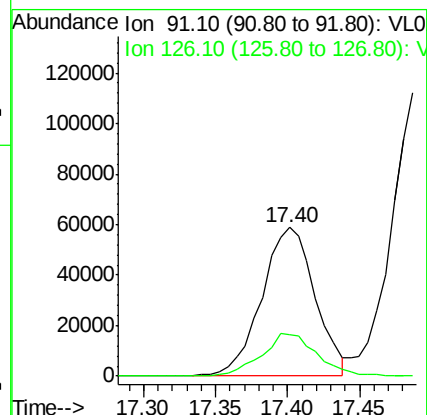
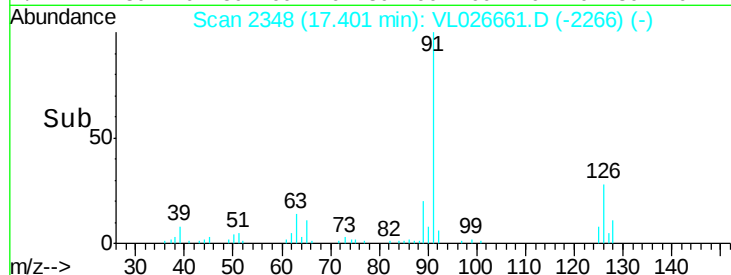
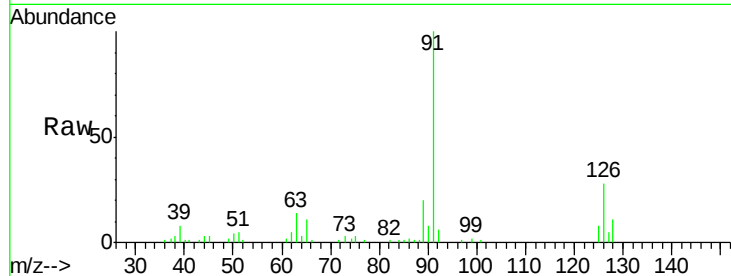
126 30.0 11.4 45.8

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#72

4-Ethyltoluene

Concen: 0.35 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion: 105 Resp: 181572

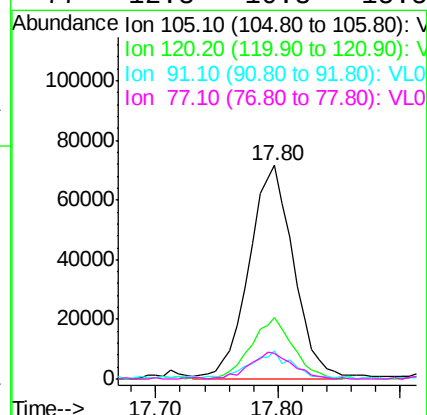
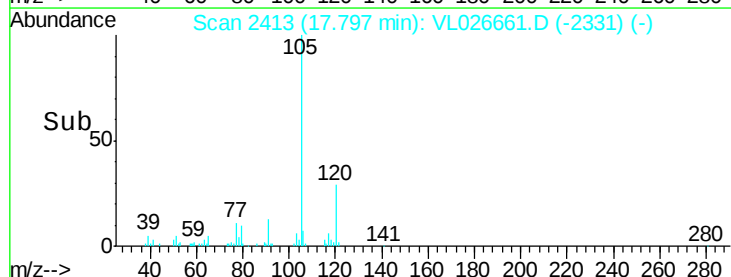
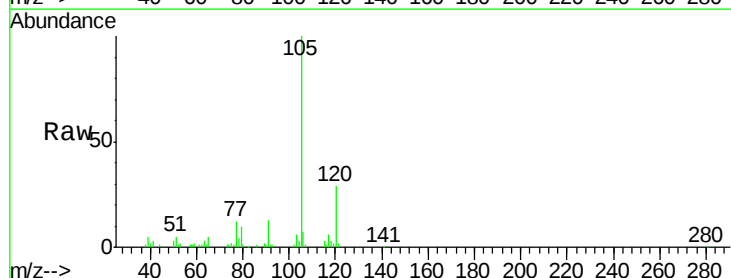
Ion Ratio Lower Upper

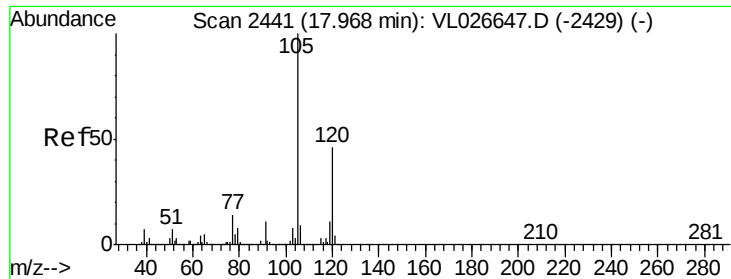
105 100

120 27.9 23.7 35.5

91 14.1 9.7 14.5

77 12.3 10.3 15.5





#73

1,3,5-Trimethylbenzene

Concen: 0.37 ppbv

RT: 17.96 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-3

Tot Ion:105 Resp: 182239

Ion Ratio Lower Upper

105 100

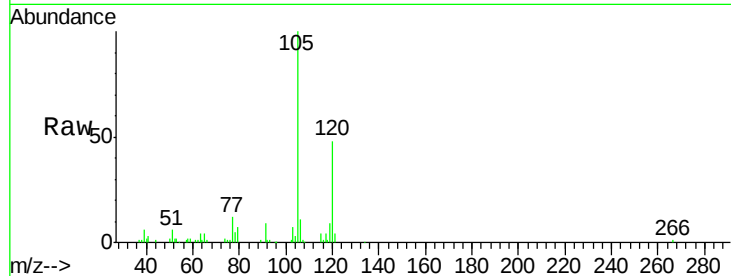
120 48.8 36.6 54.8

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

17.96

80000

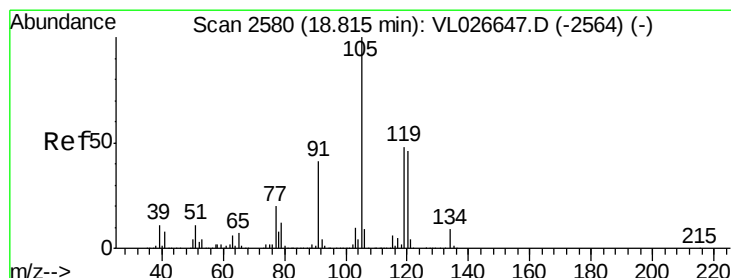
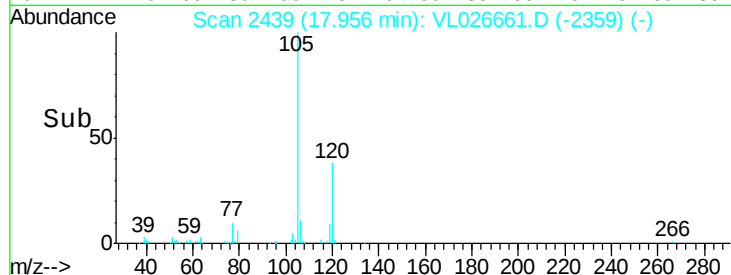
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.43 ppbv

RT: 18.80 min Scan# 2577

Delta R.T. -0.02 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion:105 Resp: 222350

Ion Ratio Lower Upper

105 100

120 48.0 36.6 55.0

91 61.3 32.5 48.7#

77 20.2 15.7 23.5

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

120000

100000

80000

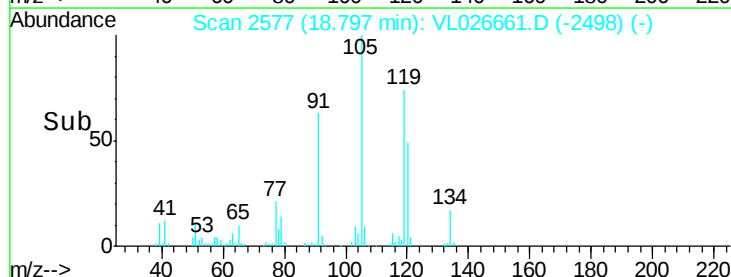
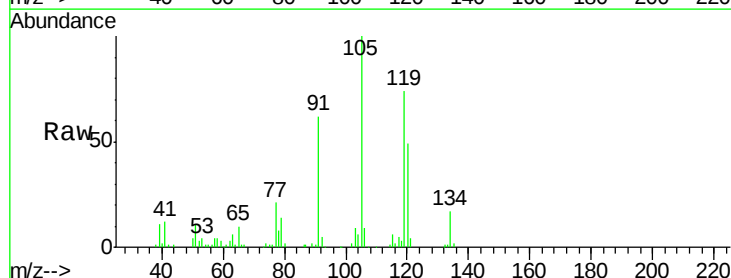
60000

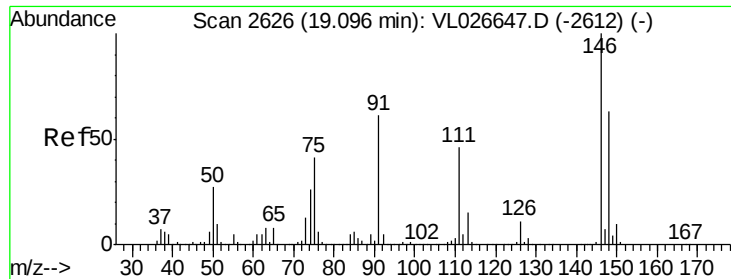
40000

20000

0

Time-->





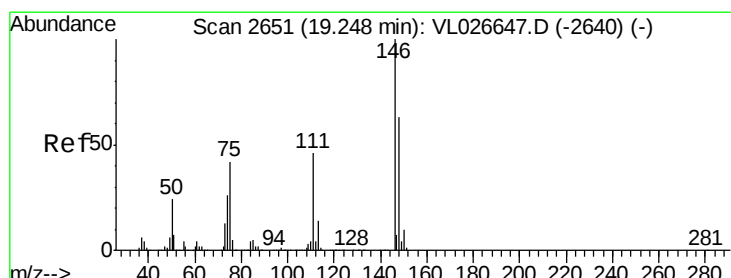
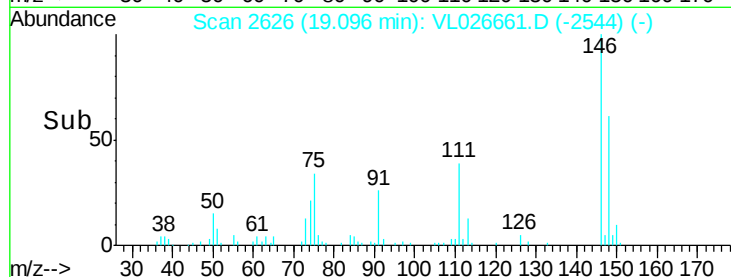
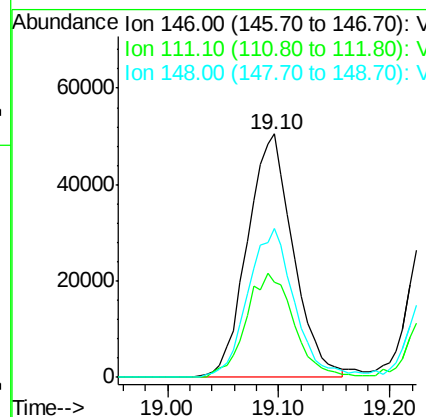
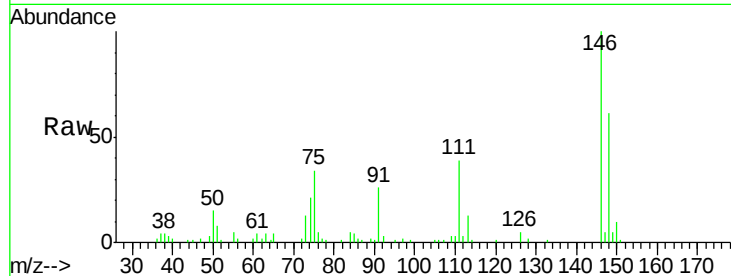
#75
 1,3-Dichlorobenzene
 Concen: 0.45 ppbv
 RT: 19.10 min Scan# 2626
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.9	68.5
148	61.8	31.6	95.0

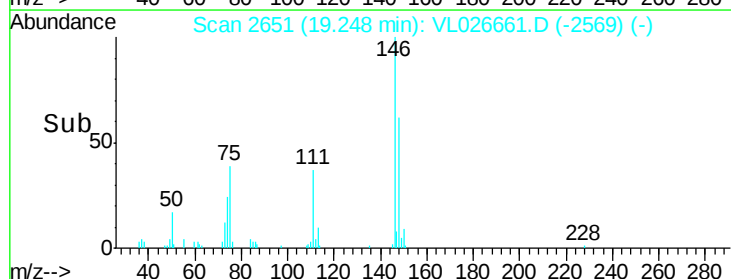
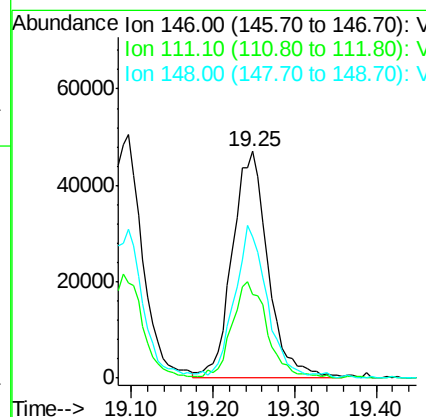
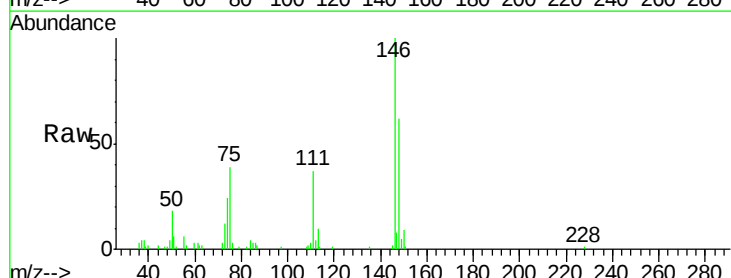
Manual Integrations
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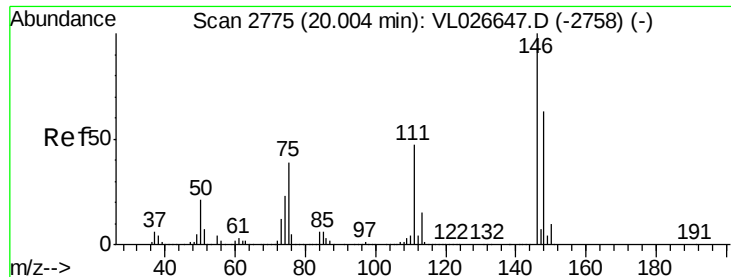
MMdadoda
 1/14/2016 10:51:17 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.44 ppbv
 RT: 19.25 min Scan# 2651
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	22.3	66.8
148	63.3	31.9	95.9





#77

1,2-Dichlorobenzene

Concen: 0.42 ppbv

RT: 20.00 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

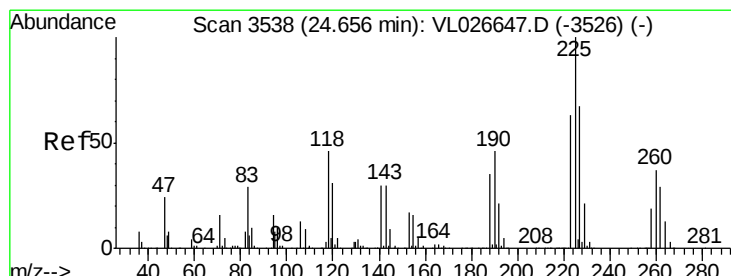
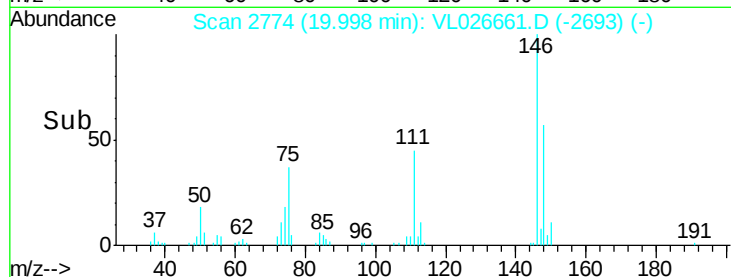
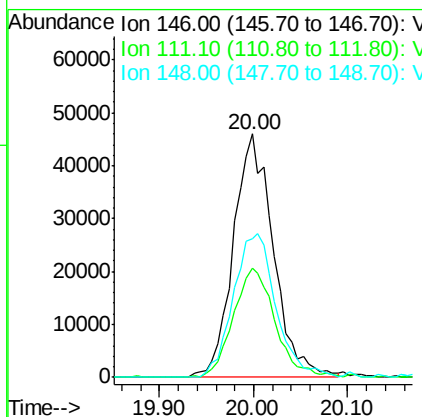
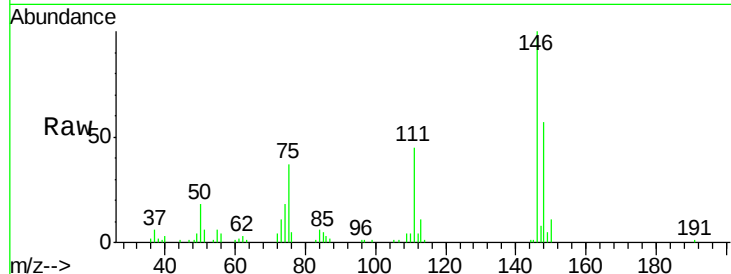
ClientSampleId :

MDL-AIR-3

Tot Ion:	146	Resp:	136407
Ion Ratio		Lower	Upper
146	100		
111	47.1	23.7	71.1
148	64.3	31.1	93.5

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#78

Hexachloro-1,3-Butadiene

Concen: 0.40 ppbv

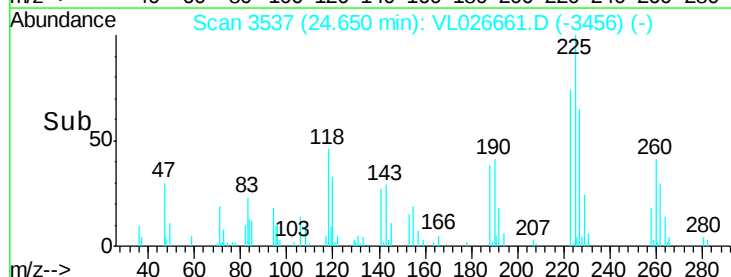
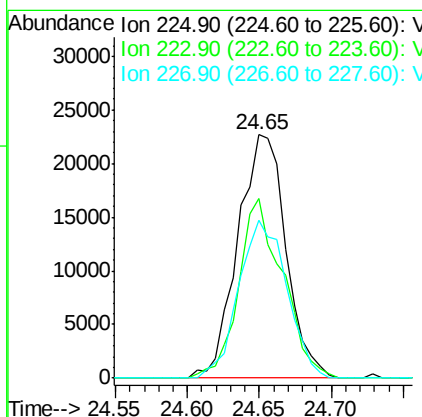
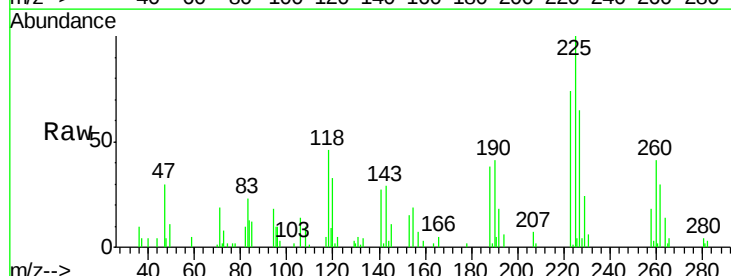
RT: 24.65 min Scan# 3537

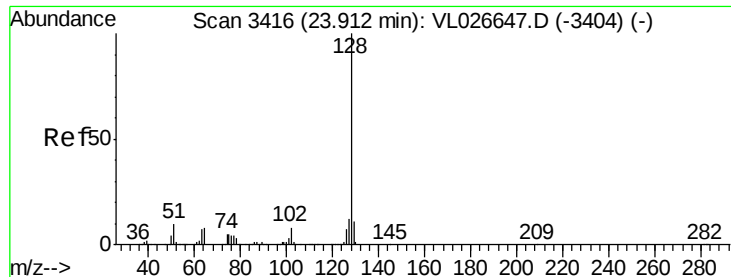
Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion:	225	Resp:	52523
Ion Ratio		Lower	Upper
225	100		
223	67.9	50.1	75.1
227	65.1	51.1	76.7





#79

Naphthalene

Concen: 0.25 ppbv

RT: 23.92 min Scan# 3417

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

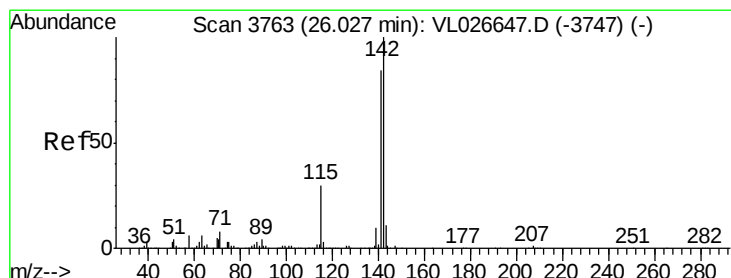
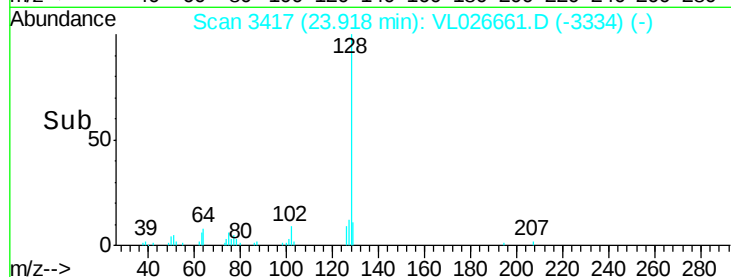
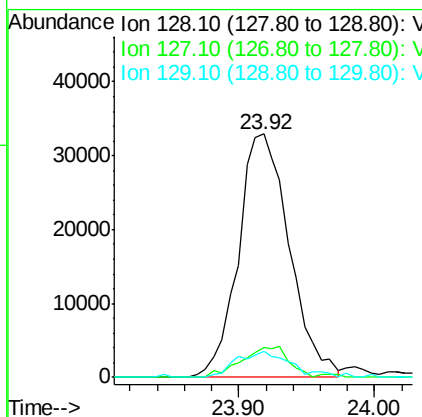
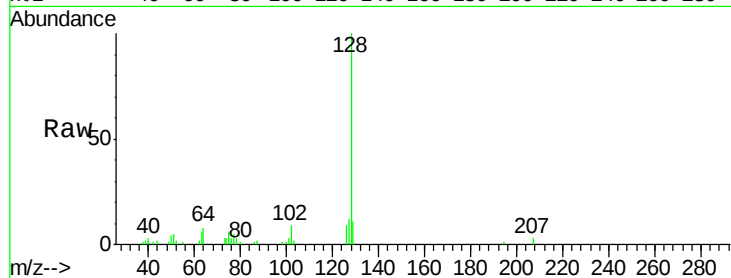
ClientSampleId :

MDL-AIR-3

Tot Ion:	128	Resp:	86001
Ion Ratio	Lower	Upper	
128	100		
127	12.1	9.8	14.8
129	10.6	8.9	13.3

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#80

Naphthalene, 2-methyl-

Concen: 0.28 ppbv

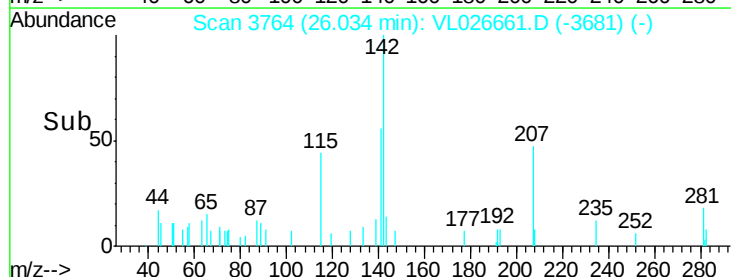
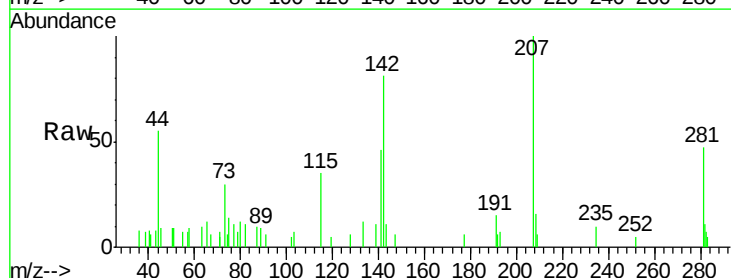
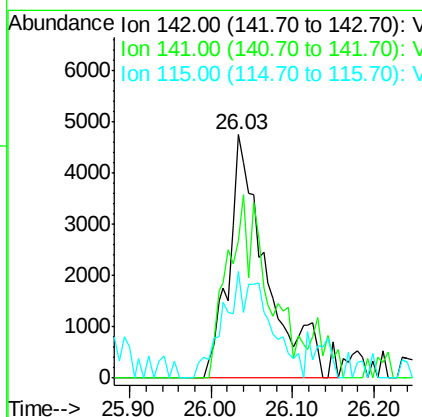
RT: 26.03 min Scan# 3764

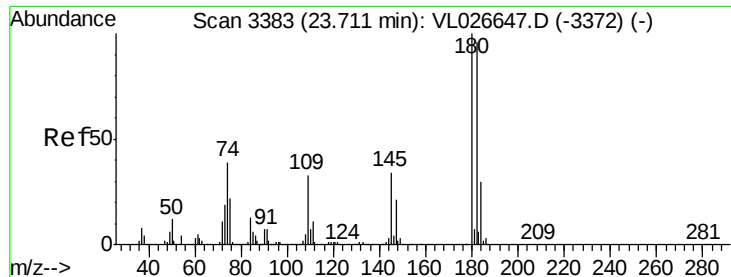
Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion:	142	Resp:	15368
Ion Ratio	Lower	Upper	
142	100		
141	91.8	67.0	100.6
115	50.7	24.7	37.1#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.31 ppbv
 RT: 23.72 min Scan# 3384
 Delta R.T. 0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	97.2	75.4	113.0
184	32.5	24.1	36.1

Manual Integrations
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