

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031426.D
 Acq On : 22 Jan 2018 21:51
 Operator : SY/AP
 Sample : J1089-08 0.1 PPBV MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:21 PM

Quant Time: Jan 23 10:26:01 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	1169477	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2832875	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2723667	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2222080	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	36762	0.22	ppbv	96
3) Chlorodifluoromethane	3.11	51	21140	0.14	ppbv	96
4) Chloromethane	3.28	50	10051	0.15	ppbv	99
5) Vinyl Chloride	3.40	62	9544	0.14	ppbv	99
6) Bromomethane	3.63	94	7167m	0.15	ppbv	
7) Chloroethane	3.71	64	4889m	0.17	ppbv	
8) Dichlorotetrafluoroethane	3.32	85	27204	0.15	ppbv	99
9) Propene	3.13	41	7150m	0.13	ppbv	
10) Heptane	8.40	43	16145	0.10	ppbv	96
11) Trichlorofluoromethane	4.13	101	32070	0.14	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.68	101	19733	0.14	ppbv	99
13) Ethanol	3.78	45	3205m	0.20	ppbv	
14) Bromoethene	3.90	108	7942m	0.14	ppbv	
15) Acetone	4.04	43	32046	0.21	ppbv	99
16) 1,3-Butadiene	3.47	39	9709m	0.15	ppbv	
17) tert-Butyl alcohol	4.52	59	9666m	0.13	ppbv	
18) 1,1-Dichloroethene	4.48	96	8194	0.14	ppbv	89
19) Isopropyl Alcohol	4.17	45	13776m	0.14	ppbv	
20) Methylene Chloride	4.53	84	15325	0.25	ppbv	86
21) Allyl Chloride	4.61	41	12288m	0.13	ppbv	
22) trans-1,2-Dichloroethene	5.10	96	7424	0.12	ppbv	85
23) Vinyl Acetate	5.30	43	22507m	0.12	ppbv	
24) 1,1-Dichloroethane	5.23	63	22597	0.14	ppbv #	96
25) Ethyl Acetate	5.93	43	35366	0.13	ppbv	98
26) Hexane	5.93	57	14941	0.12	ppbv #	86
27) Carbon Disulfide	4.75	76	18369	0.11	ppbv #	65
28) Methyl tert-Butyl Ether	5.27	73	16143	0.11	ppbv	93
29) Chloroform	5.99	83	27376	0.13	ppbv	98
30) Cyclohexane	7.40	84	19290m	0.20	ppbv	
31) cis-1,2-Dichloroethene	5.78	61	14275	0.12	ppbv #	78
32) 1,1,1-Trichloroethane	6.77	97	26116	0.13	ppbv	93
34) 2-Butanone	5.49	43	23140	0.13	ppbv	94
35) Carbon Tetrachloride	7.29	117	29111m	0.13	ppbv	
36) Benzene	7.16	78	28095	0.11	ppbv #	89
37) 1,2-Dichloroethane	6.57	62	25039	0.13	ppbv	98
38) Trichloroethene	8.12	130	13117m	0.13	ppbv	
39) 1,2-Dichloropropane	7.89	63	11888	0.13	ppbv	93
40) 1,4-Dioxane	8.19	88	3978m	0.10	ppbv	
41) Tetrahydrofuran	6.34	42	9247m	0.09	ppbv	
42) Bromodichloromethane	8.07	83	29204	0.12	ppbv #	85
43) Methyl Methacrylate	8.30	69	7690	0.08	ppbv #	79

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Quant Time: Jan 23 10:26:01 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.15	57	38784	0.09	ppbv	# 84
45) t-1,3-Dichloropropene	9.58	75	10161m	0.08	ppbv	
46) cis-1,3-Dichloropropene	8.99	75	13302	0.08	ppbv	92
47) 1,1,2-Trichloroethane	9.78	97	13919	0.13	ppbv	# 80
48) Dibromochloromethane	10.62	129	21015m	0.11	ppbv	
49) Bromoform	13.38	173	14953	0.10	ppbv	97
50) 4-Methyl-2-Pentanone	9.06	43	22049m	0.09	ppbv	
51) 2-Hexanone	10.47	43	18342m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	11268	0.12	ppbv	# 70
53) Toluene	10.12	91	25070m	0.08	ppbv	
54) 1,2-Dibromoethane	10.93	107	19392m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.44	131	17712m	0.14	ppbv	
57) Chlorobenzene	12.47	112	31573	0.13	ppbv	97
58) Ethyl Benzene	13.03	91	36564m	0.09	ppbv	
59) m/p-Xylene	13.32	91	58622m	0.17	ppbv	
60) o-Xylene	14.01	91	29442m	0.09	ppbv	
61) Styrene	13.85	104	5846m	0.08	ppbv	
62) Isopropylbenzene	14.99	105	43578	0.10	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	28521m	0.12	ppbv	
64) n-propylbenzene	15.88	120	9827m	0.09	ppbv	
65) tert-Butylbenzene	17.08	119	31030m	0.08	ppbv	
66) Benzyl Chloride	17.33	91	4318m	0.11	ppbv	
67) sec-Butylbenzene	17.63	105	45739	0.09	ppbv	96
69) p-Isopropyltoluene	17.98	119	33291m	0.08	ppbv	
70) n-Butylbenzene	18.89	91	37708m	0.09	ppbv	
71) 2-Chlorotoluene	15.78	91	31119m	0.10	ppbv	
72) 4-Ethyltoluene	16.16	105	29310m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	28830m	0.09	ppbv	
74) 1,2,4-Trimethylbenzene	17.09	105	30730	0.09	ppbv	90
75) 1,3-Dichlorobenzene	17.34	146	29232m	0.14	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	26748m	0.13	ppbv	
77) 1,2-Dichlorobenzene	18.16	146	25515m	0.12	ppbv	
78) Hexachloro-1,3-Butadiene	23.70	225	14299m	0.19	ppbv	
79) Naphthalene	22.62	128	17614m	0.08	ppbv	
80) Naphthalene, 2-methyl-	25.25	142	4738	0.08	ppbv	93
81) 1,2,4-Trichlorobenzene	22.34	180	12778m	0.11	ppbv	

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

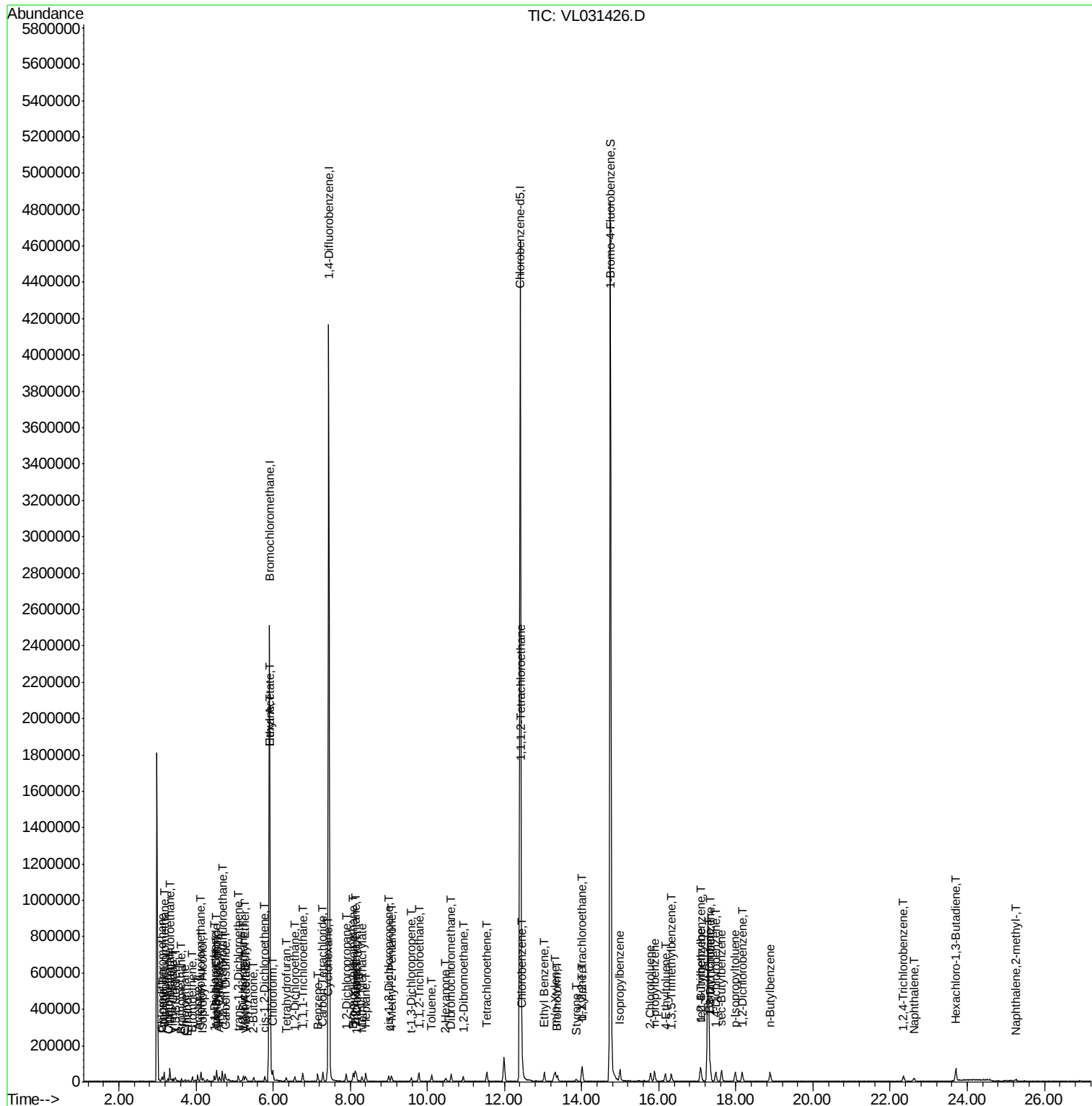
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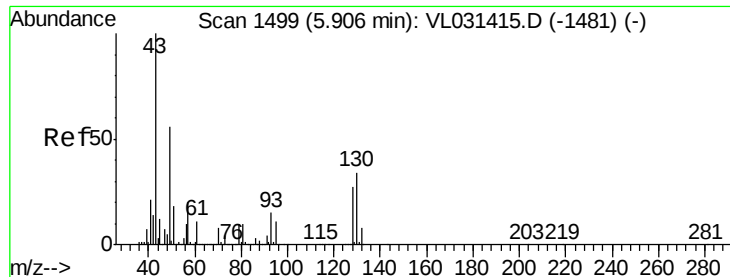
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan
QLast Update : Mon Jan 22 17:52:32 2018
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-1DL

Tot Ion: 49 Resp: 1169477

Ion Ratio Lower Upper

49 100

128 46.2 23.5 70.6

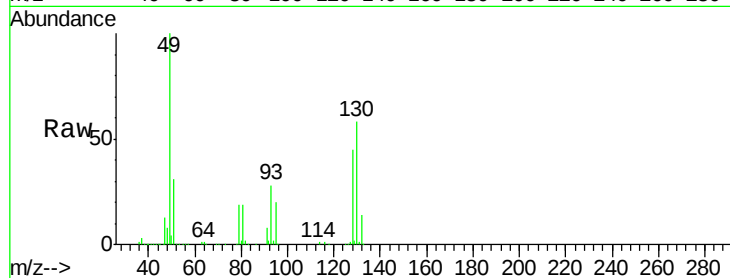
130 59.6 29.9 89.7

Manual Integrations

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

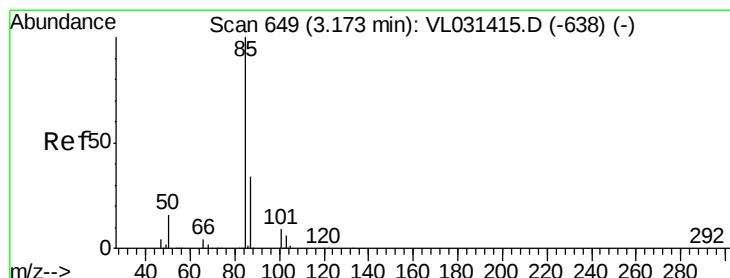
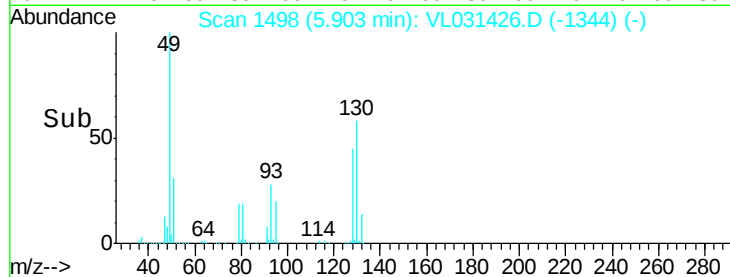
400000

200000

0

5.85 5.90 5.95

Time-->



#2

Dichlorodifluoromethane

Concen: 0.22 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031426.D

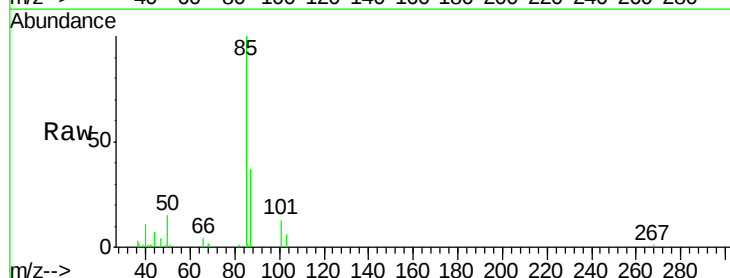
Acq: 22 Jan 2018 21:51

Tgt Ion: 85 Resp: 36762

Ion Ratio Lower Upper

85 100

87 36.7 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

25000

20000

15000

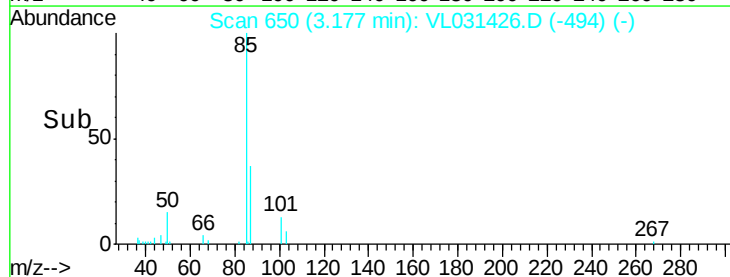
10000

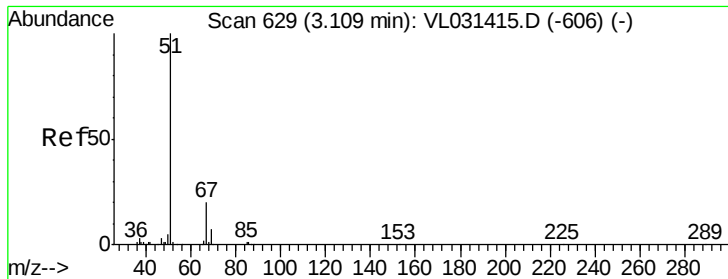
5000

0

3.15 3.18 3.20

Time-->





#3

Chlorodifluoromethane

Concen: 0.14 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-1DL

Tot Ion: 51 Resp: 21140

Ion Ratio Lower Upper

51 100

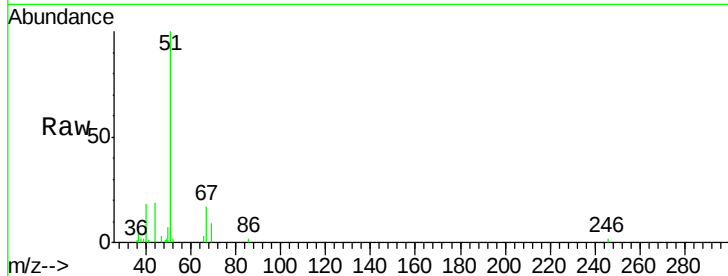
67 18.0 16.0 24.0

Manual Integrations

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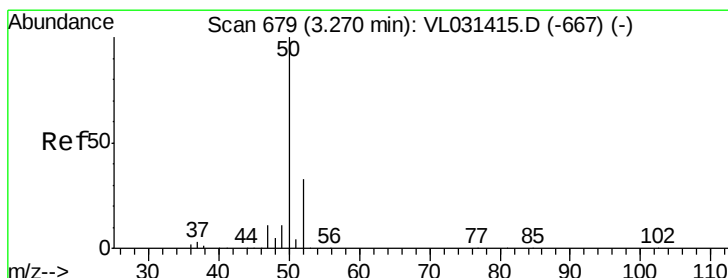
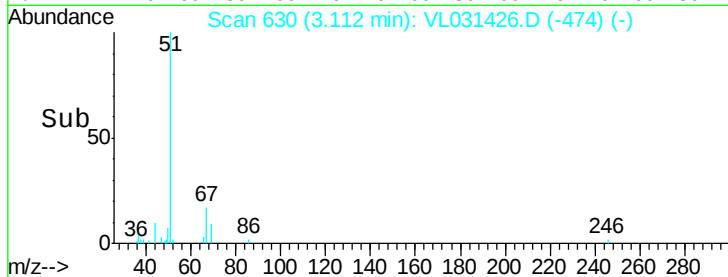
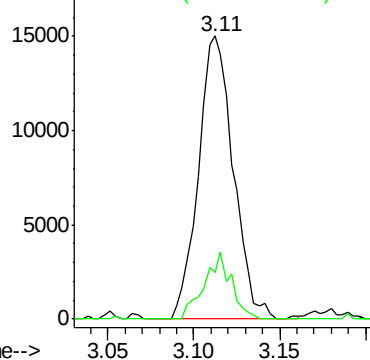
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.15 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031426.D

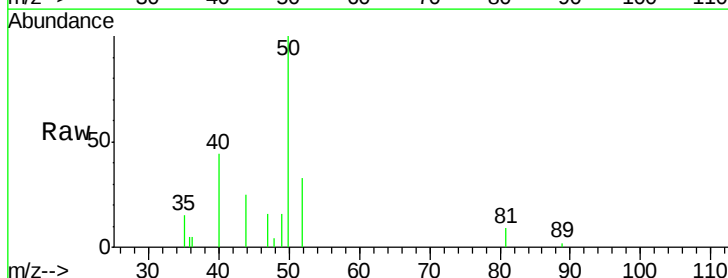
Acq: 22 Jan 2018 21:51

Tgt Ion: 50 Resp: 10051

Ion Ratio Lower Upper

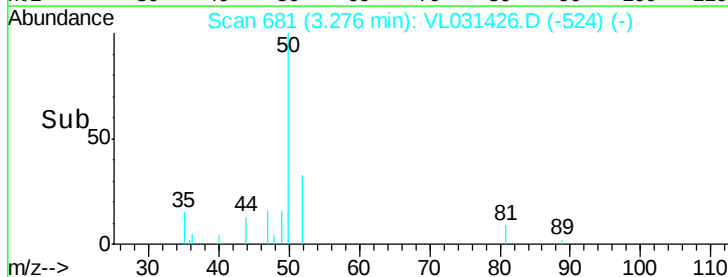
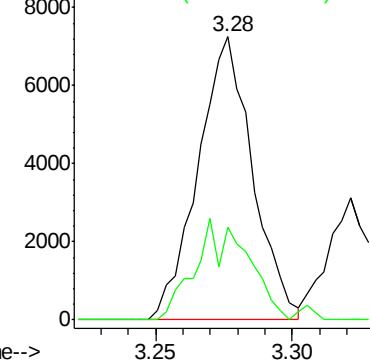
50 100

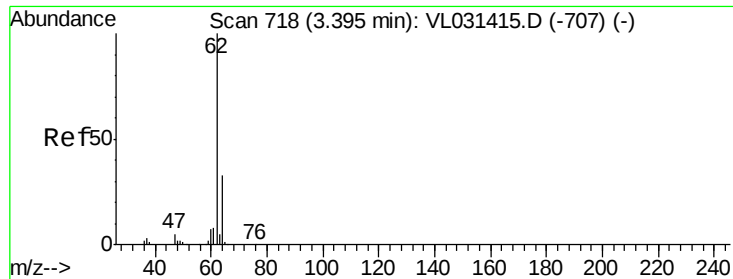
52 32.5 26.4 39.6



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

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-1DL

Tot Ion: 62 Resp: 9544

Ion Ratio Lower Upper

62 100

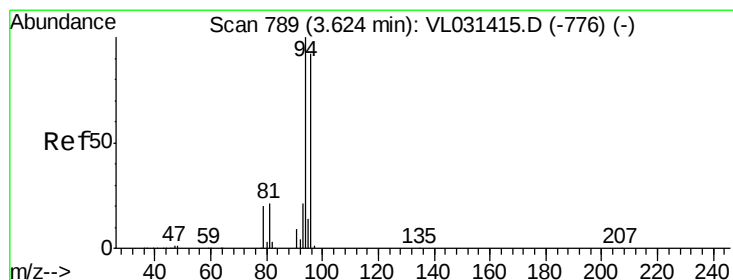
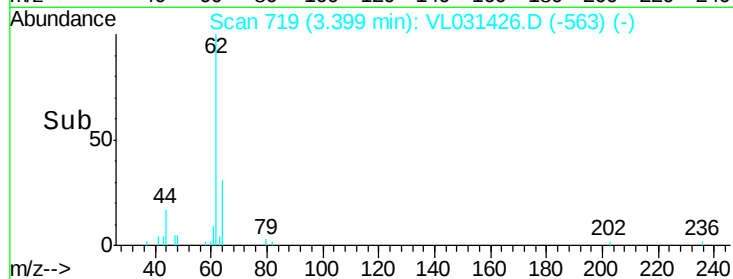
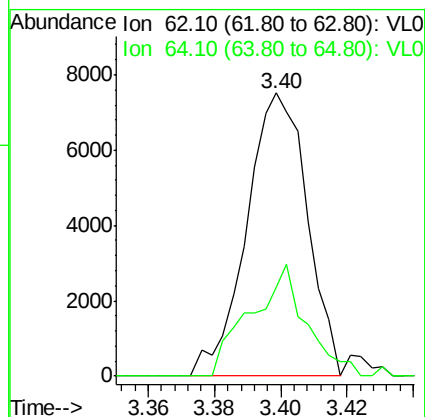
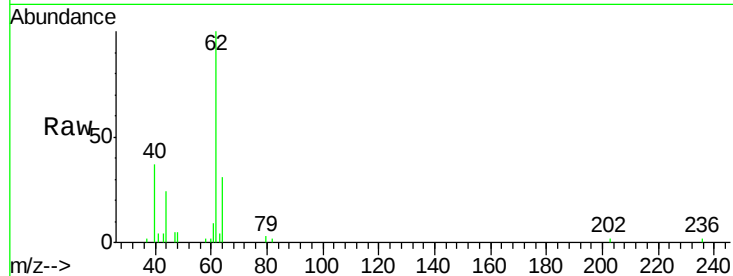
64 31.3 25.4 38.0

Manual Integrations

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#6

Bromomethane

Concen: 0.15 ppbv m

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031426.D

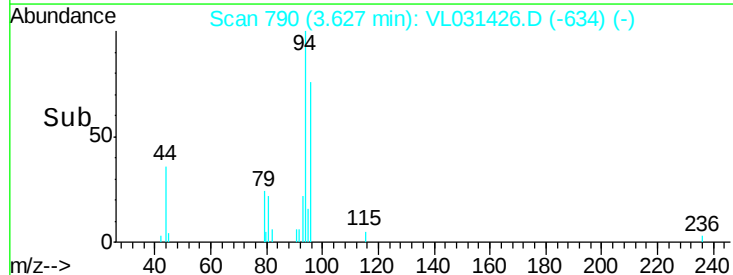
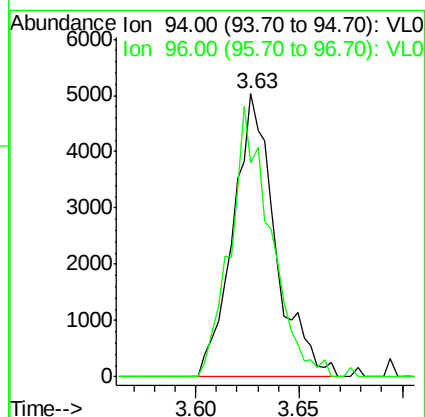
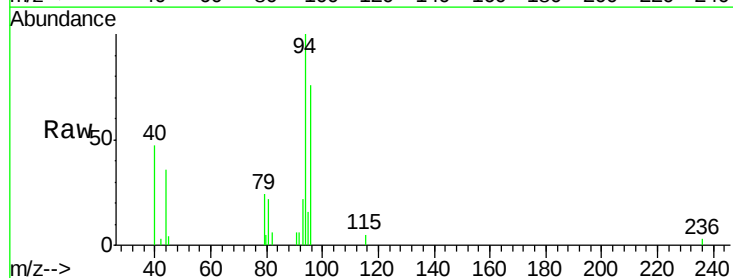
Acq: 22 Jan 2018 21:51

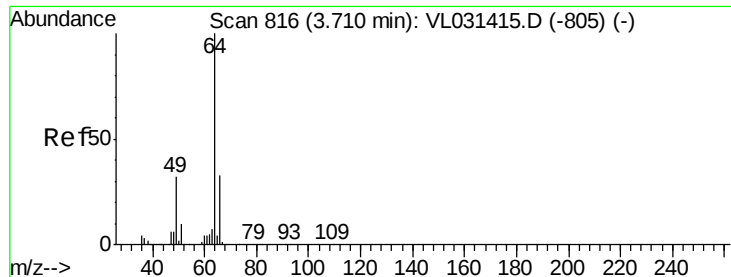
Tgt Ion: 94 Resp: 7167

Ion Ratio Lower Upper

94 100

96 75.7 75.1 112.7





#7

Chloroethane

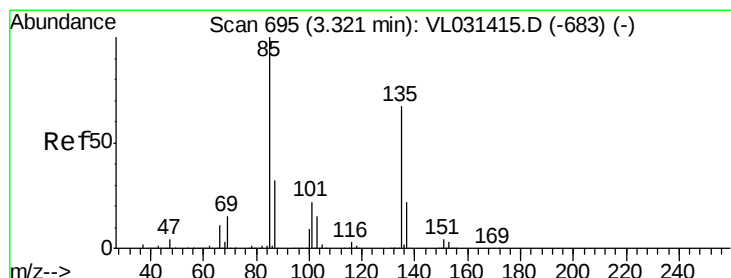
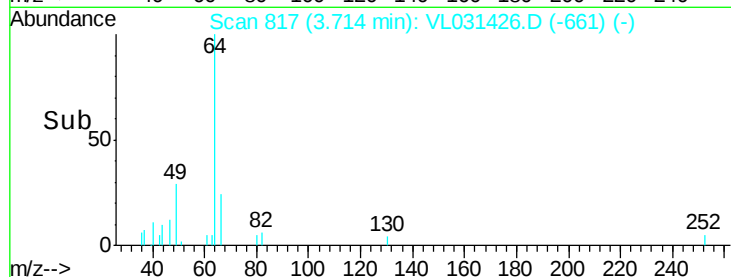
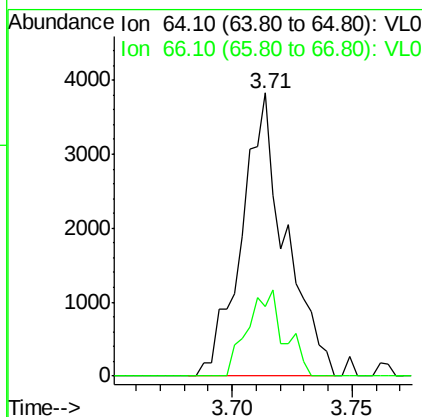
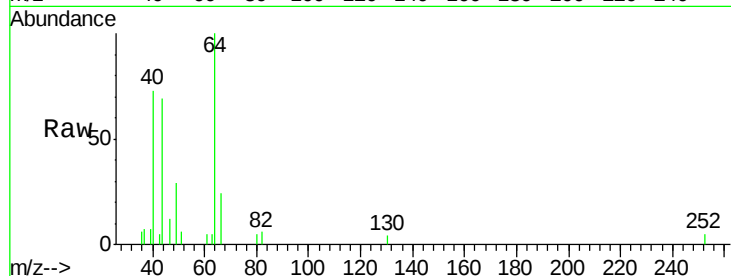
Concen: 0.17 ppbv m
 RT: 3.71 min Scan# 817
 Delta R.T. 0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
64	100		
66	24.5	26.3	39.5#

Manual Integrations
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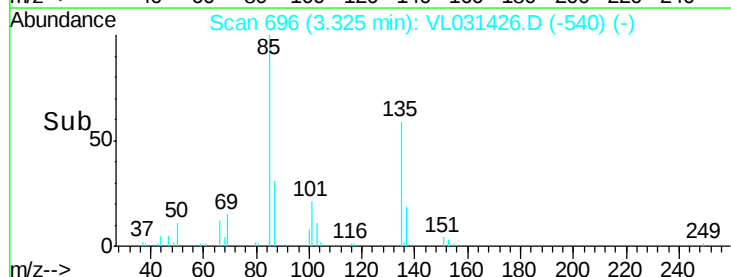
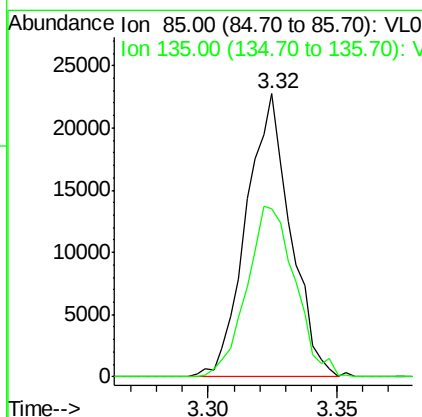
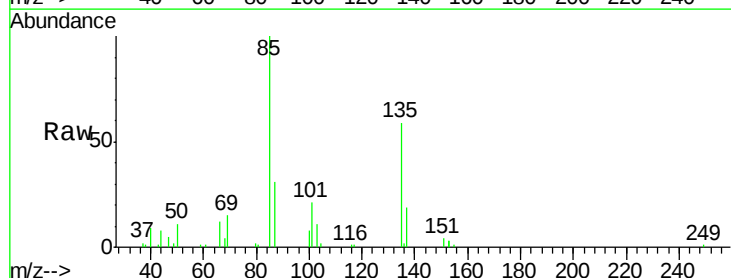


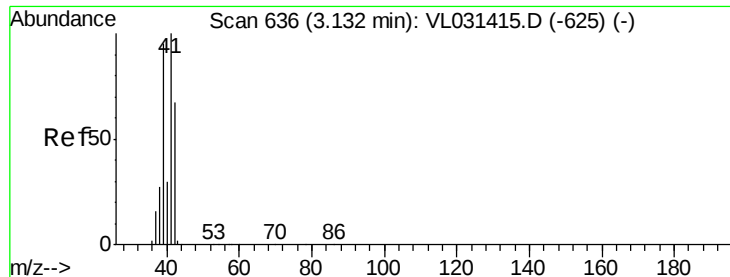
#8

Dichlorotetrafluoroethane

Concen: 0.15 ppbv
 RT: 3.32 min Scan# 696
 Delta R.T. 0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
85	100		
135	65.9	53.3	79.9





#9

Propene

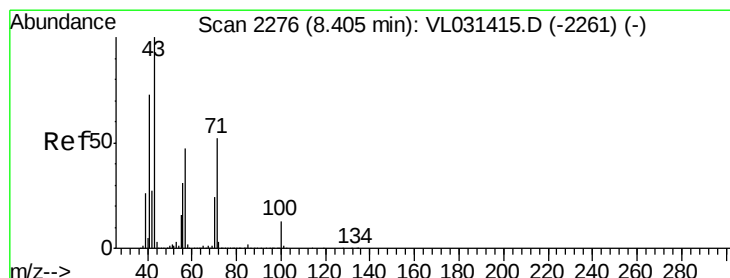
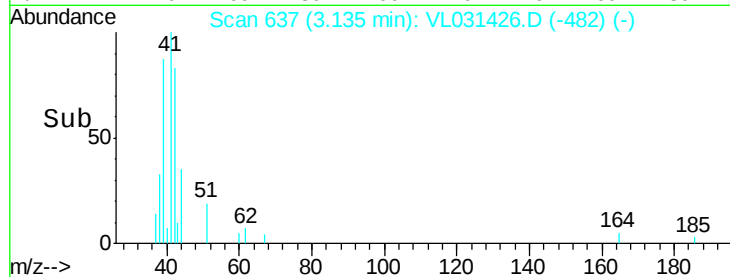
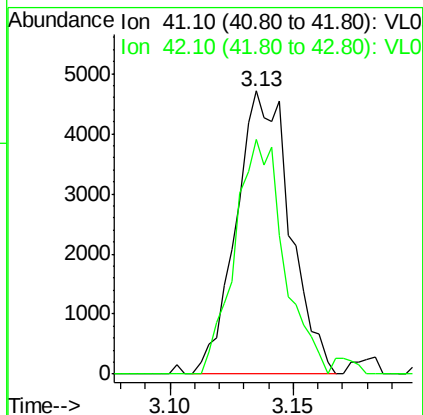
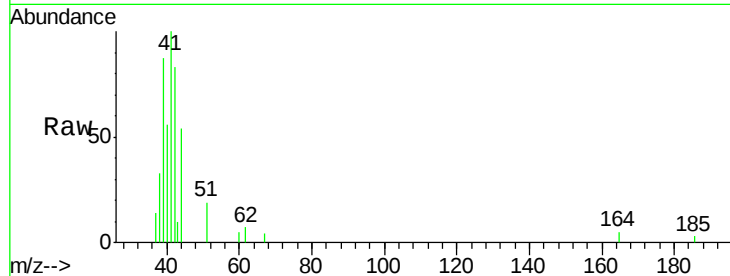
Concen: 0.13 ppbv m
 RT: 3.13 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-1DL

Tot Ion: 41 Resp: 7150
 Ion Ratio Lower Upper
 41 100
 42 3.0 54.6 82.0#

Manual Integrations
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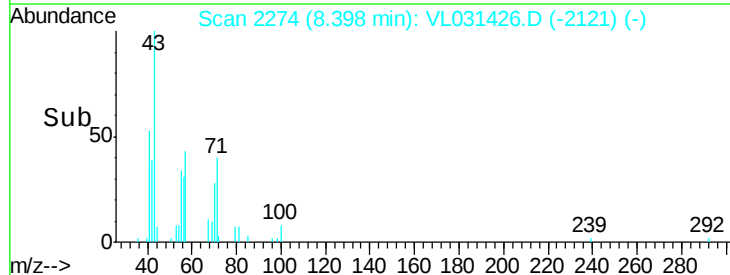
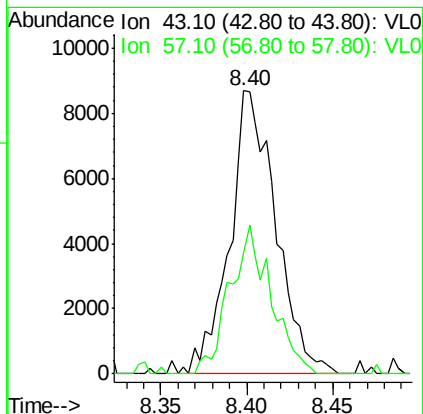
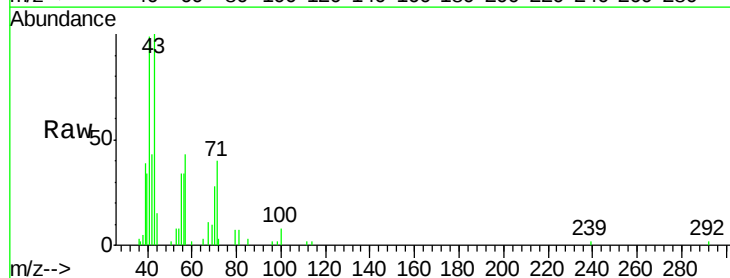


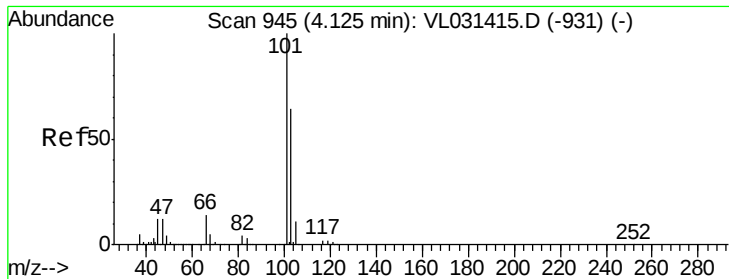
#10

Heptane

Concen: 0.10 ppbv
 RT: 8.40 min Scan# 2274
 Delta R.T. -0.01 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Tgt Ion: 43 Resp: 16145
 Ion Ratio Lower Upper
 43 100
 57 47.0 39.7 59.5





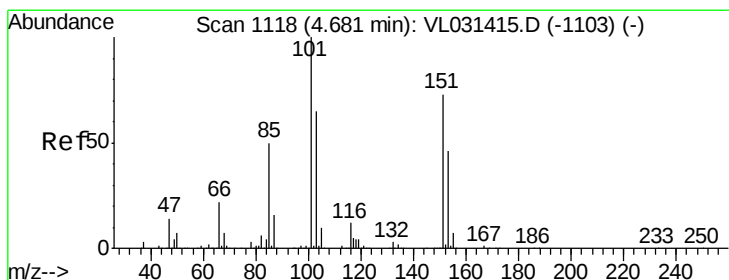
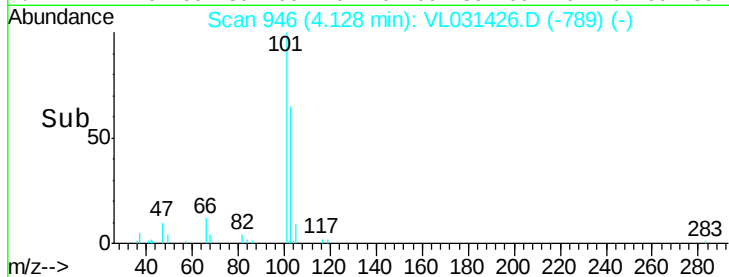
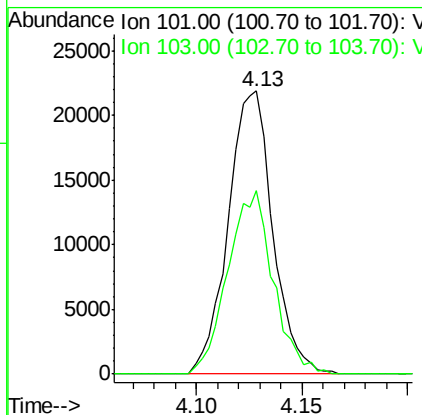
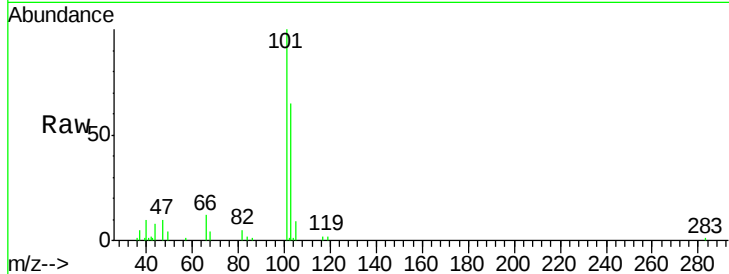
#11
 Trichlorofluoromethane
 Concen: 0.14 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	53.1	79.7

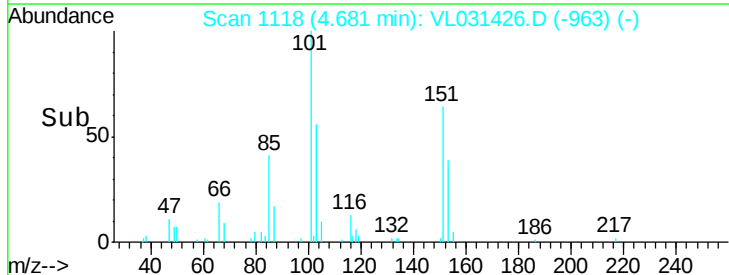
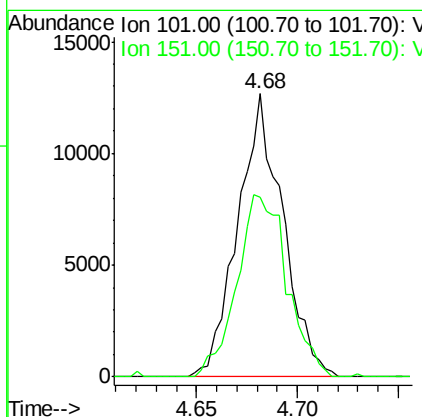
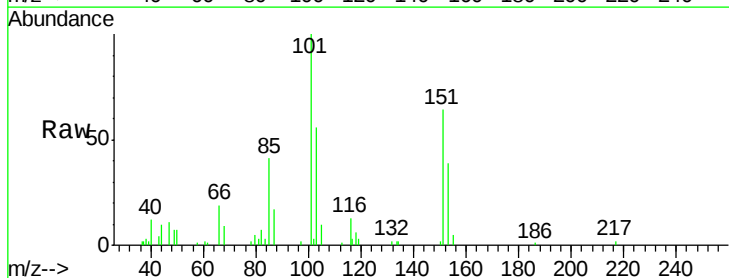
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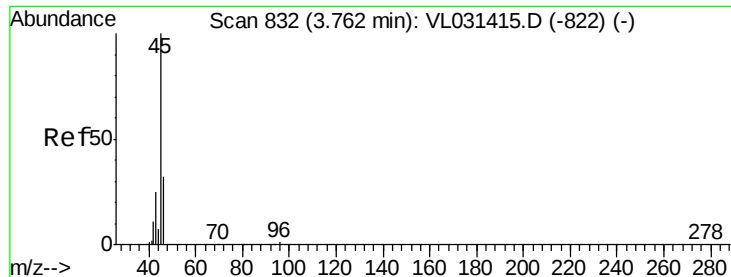
MMDadoda
 1/24/2018 5:10:21 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.14 ppbv
 RT: 4.68 min Scan# 1118
 Delta R.T. -0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.9	58.1	87.1





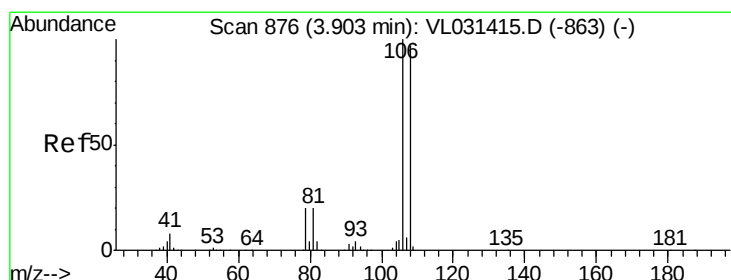
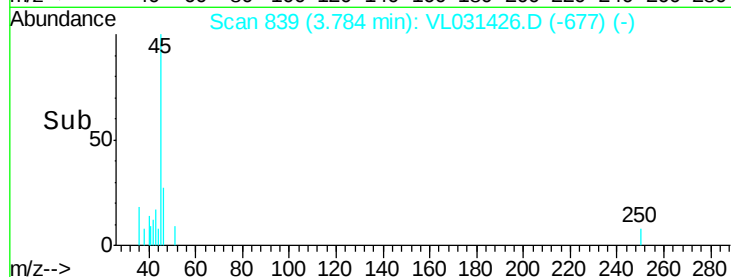
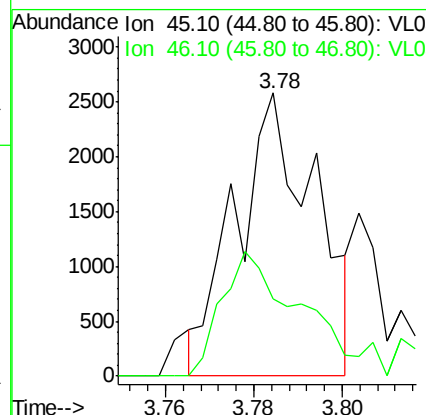
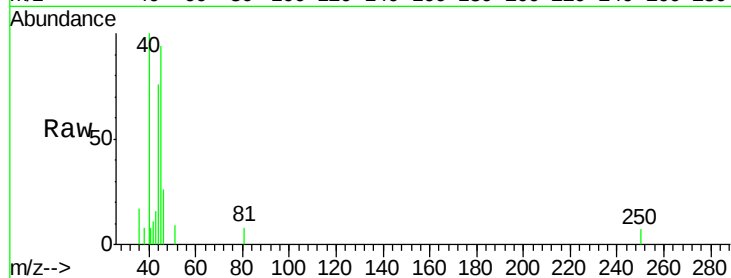
#13
Ethanol
Concen: 0.20 ppbv m
RT: 3.78 min Scan# 839
Delta R.T. 0.02 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	45	Resp	3205
Ion Ratio	100	Lower	Upper
46	48.7	14.9	59.5

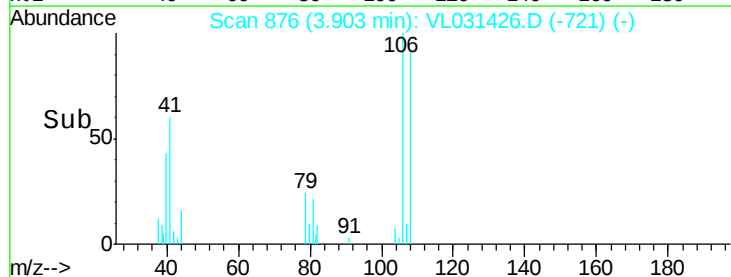
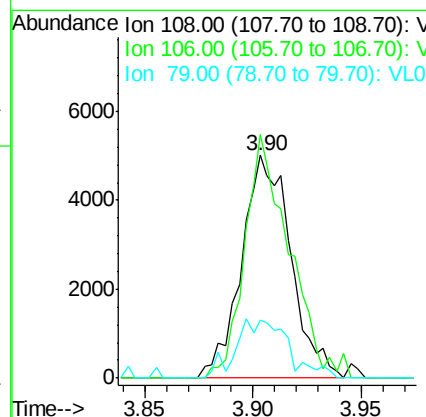
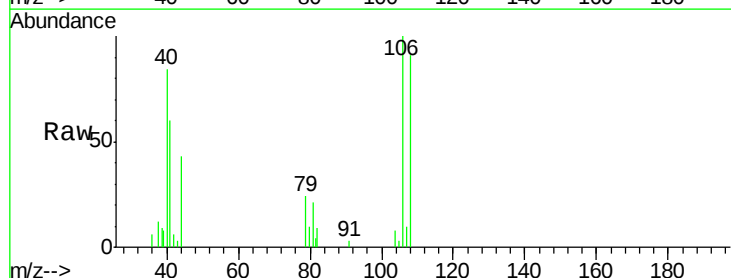
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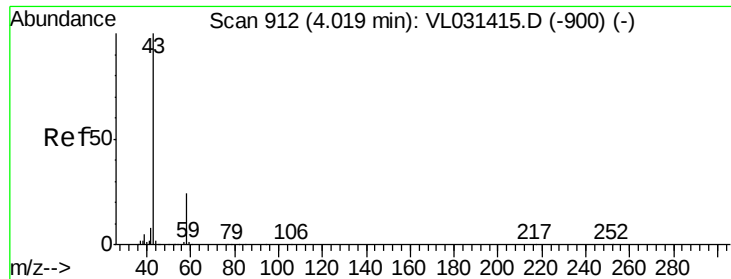
MMDadoda
1/24/2018 5:10:21 PM



#14
Bromoethene
Concen: 0.14 ppbv m
RT: 3.90 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	108	Resp	7942
Ion Ratio	100	Lower	Upper
106	98.8	85.3	127.9
79	29.4	16.8	25.2#





#15

Acetone

Concen: 0.21 ppbv

RT: 4.04 min Scan# 920

Delta R.T. 0.02 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-1DL

Tot Ion: 43 Resp: 32046

Ion Ratio Lower Upper

43 100

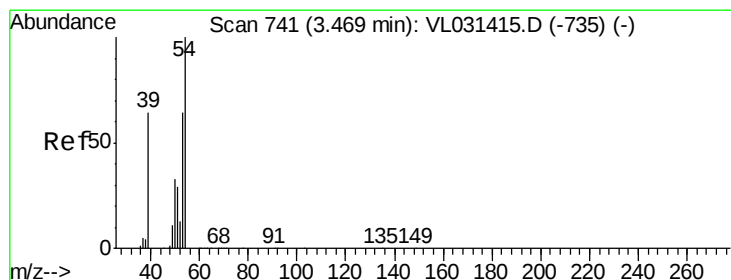
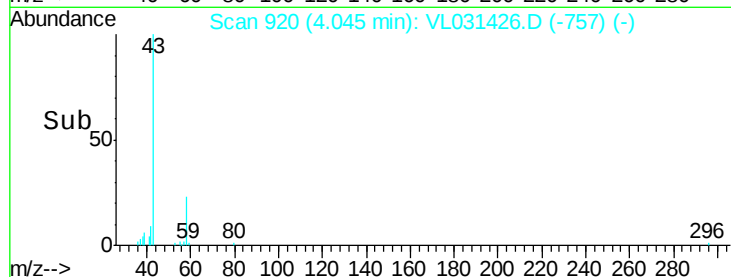
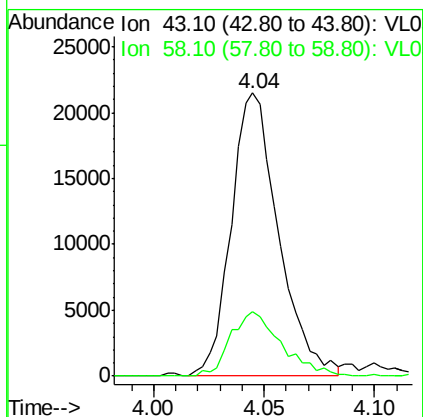
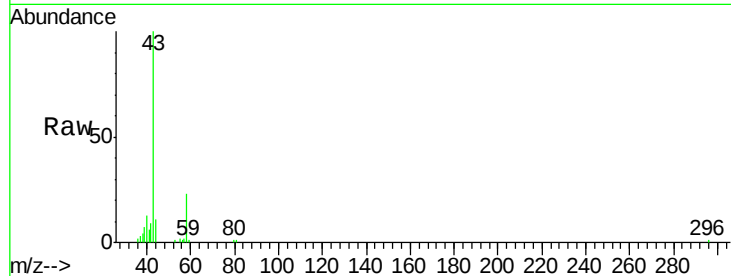
58 24.6 19.4 29.2

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#16

1,3-Butadiene

Concen: 0.15 ppbv m

RT: 3.47 min Scan# 741

Delta R.T. -0.00 min

Lab File: VL031426.D

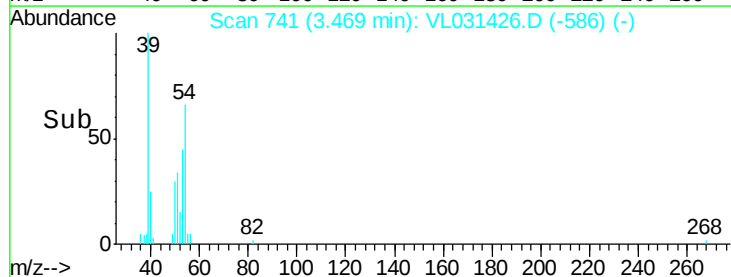
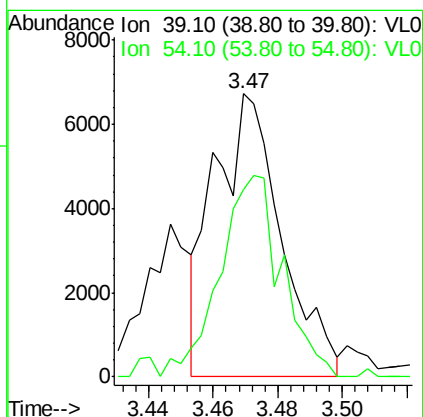
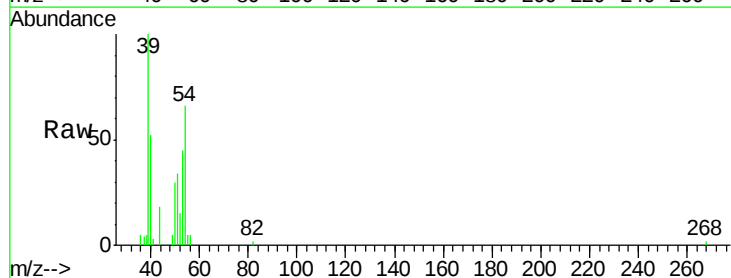
Acq: 22 Jan 2018 21:51

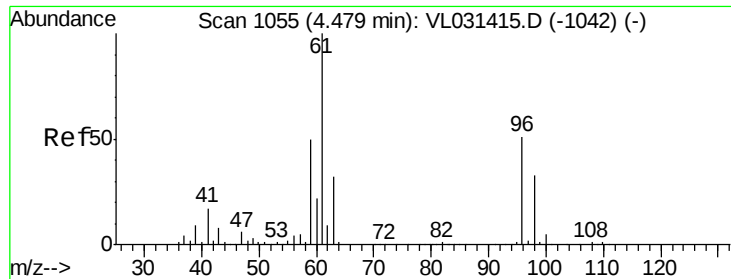
Tgt Ion: 39 Resp: 9709

Ion Ratio Lower Upper

39 100

54 68.0 67.0 100.6





#17

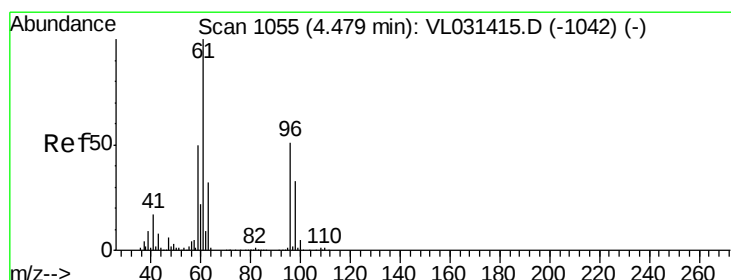
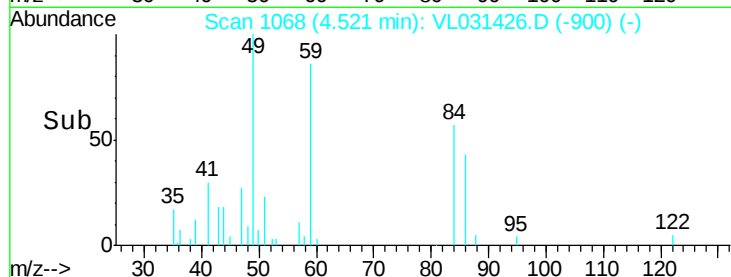
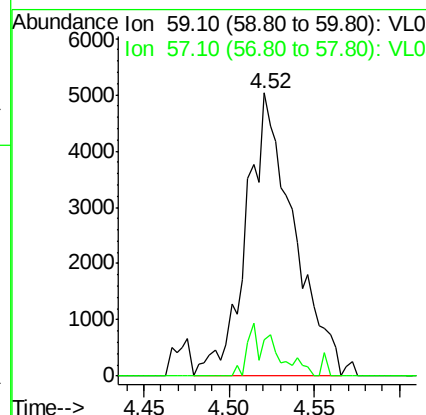
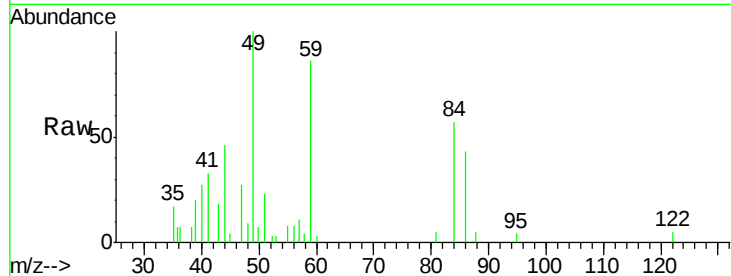
tert-Butyl alcohol
Concen: 0.13 ppbv m
RT: 4.52 min Scan# 1068
Delta R.T. 0.04 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-1DL

Tot Ion: 59 Resp: 9666
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

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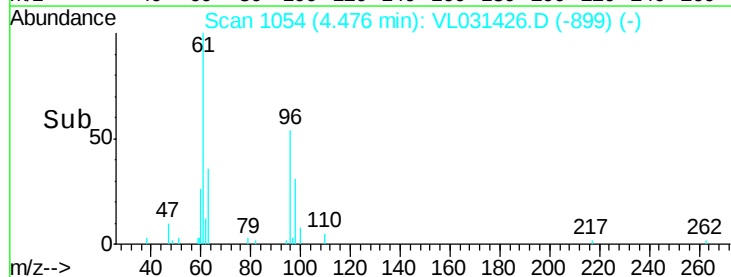
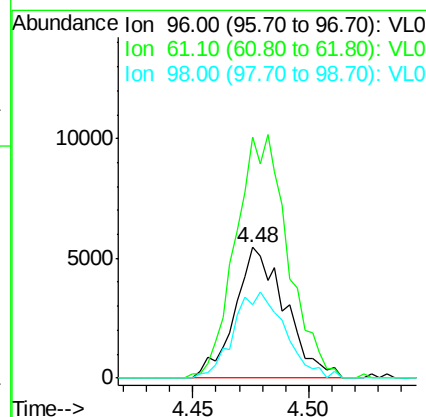
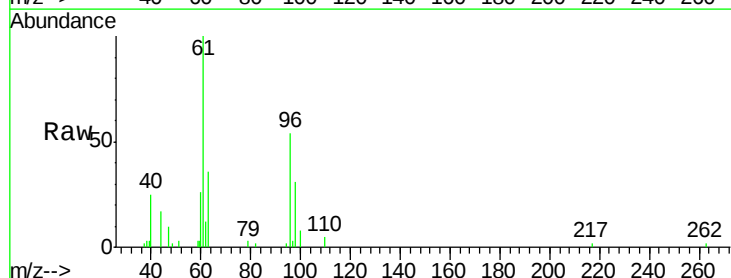
MMDadoda
1/24/2018 5:10:21 PM

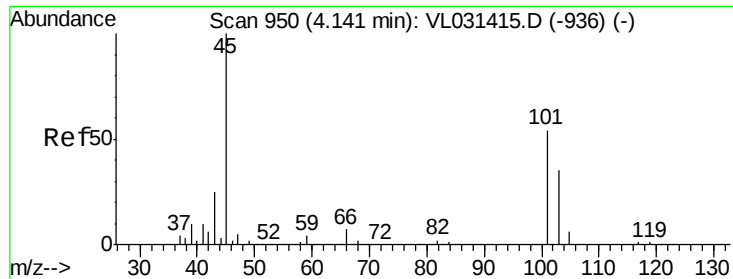


#18

1,1-Dichloroethene
Concen: 0.14 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion: 96 Resp: 8194
Ion Ratio Lower Upper
96 100
61 184.1 161.6 242.4
98 56.2 49.6 74.4





#19

Isopropyl Alcohol

Concen: 0.14 ppbv m

RT: 4.17 min Scan# 959

Delta R.T. 0.03 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-1DL

Tot Ion: 45 Resp: 13776

Ion Ratio Lower Upper

45 100

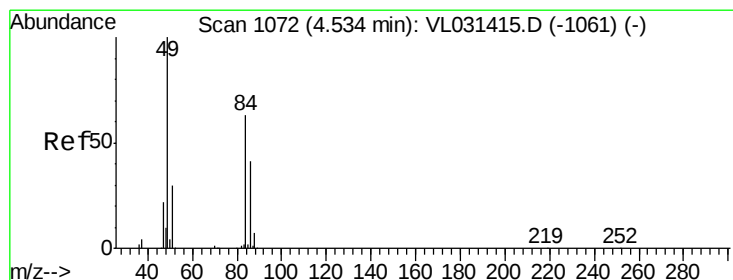
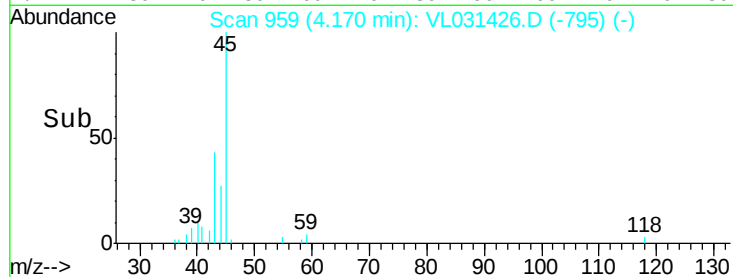
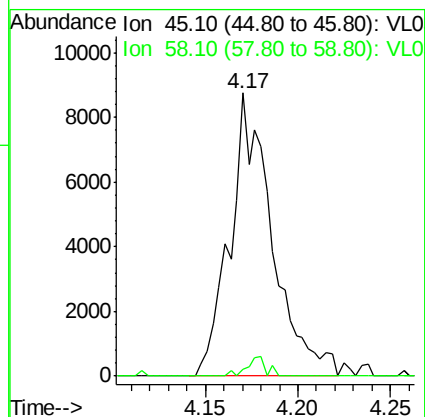
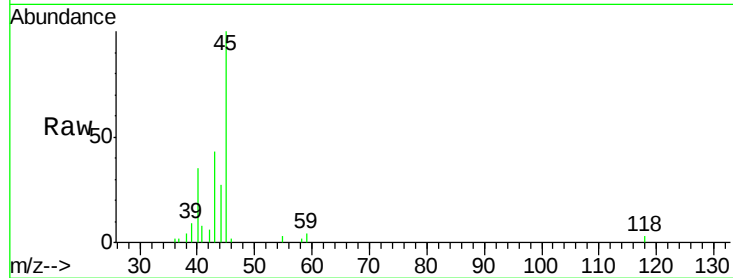
58 0.0 1.0 1.4#

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#20

Methylene Chloride

Concen: 0.25 ppbv

RT: 4.53 min Scan# 1072

Delta R.T. -0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion: 84 Resp: 15325

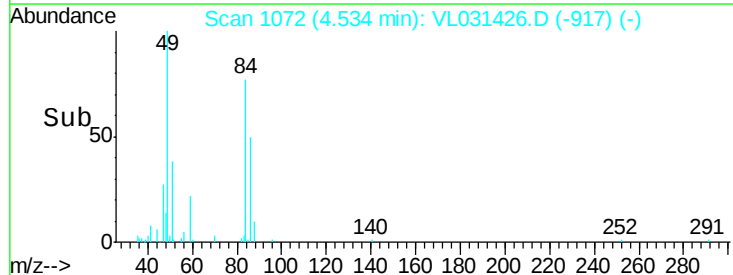
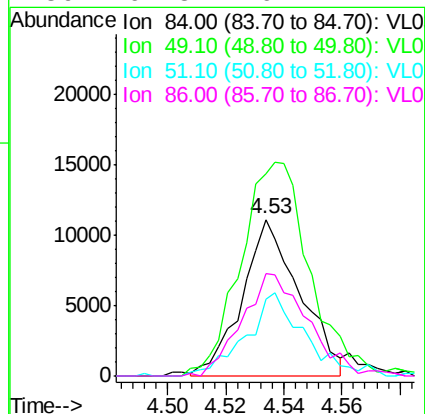
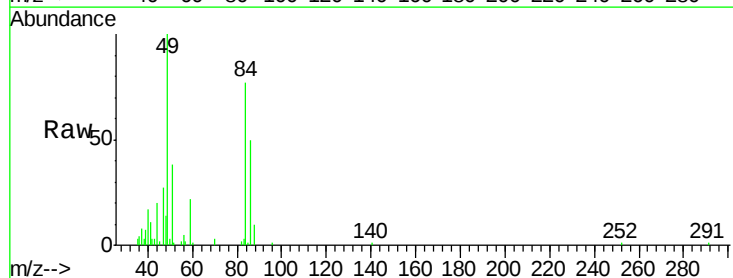
Ion Ratio Lower Upper

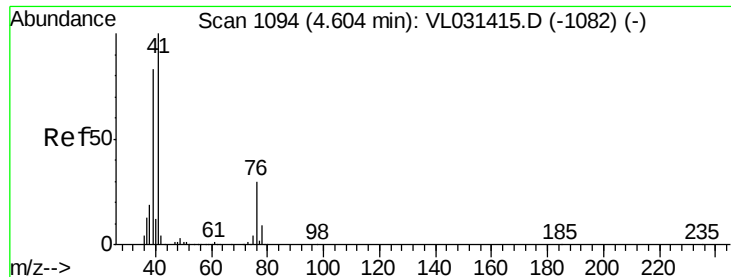
84 100

49 127.1 123.4 185.0

51 48.8 35.6 53.4

86 64.8 49.4 74.2





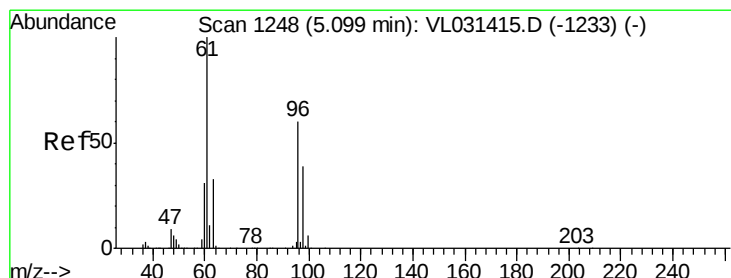
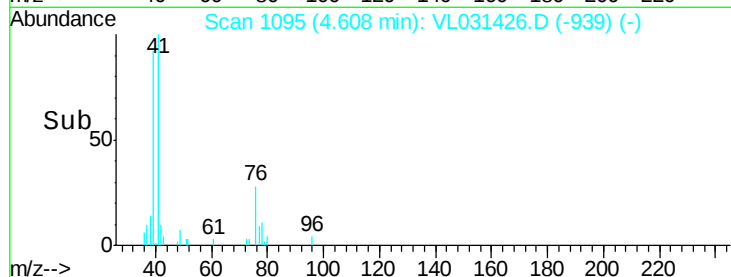
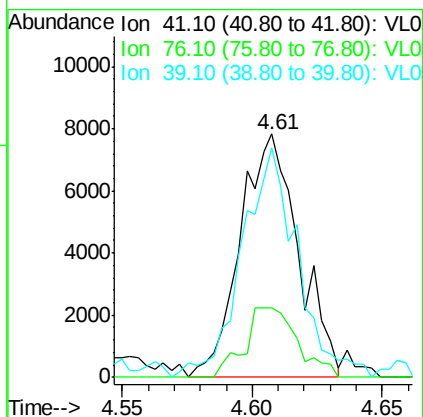
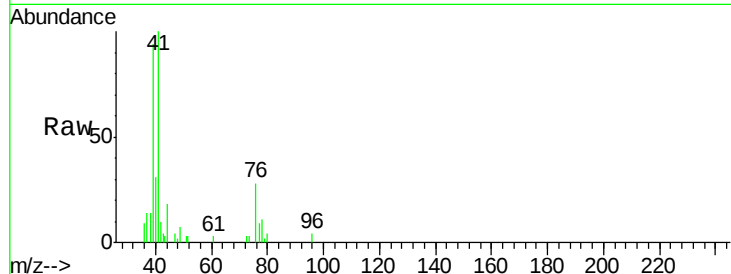
#21
Allvl Chloride
Concen: 0.13 ppbv m
RT: 4.61 min Scan# 1095
Delta R.T. 0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
41	100		
76	25.9	24.2	36.2
39	94.8	69.8	104.8

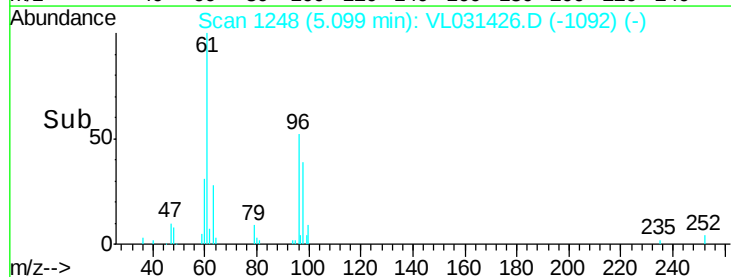
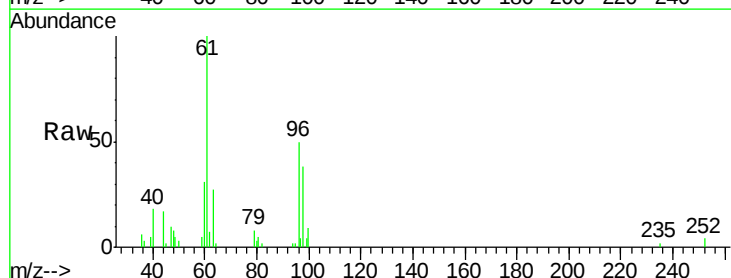
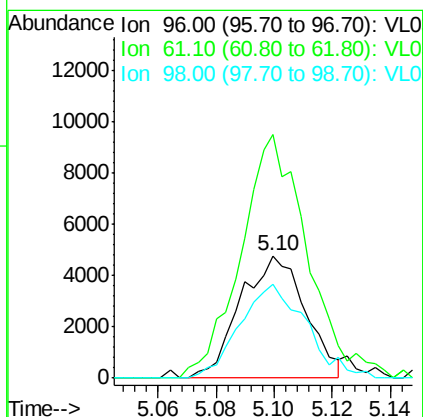
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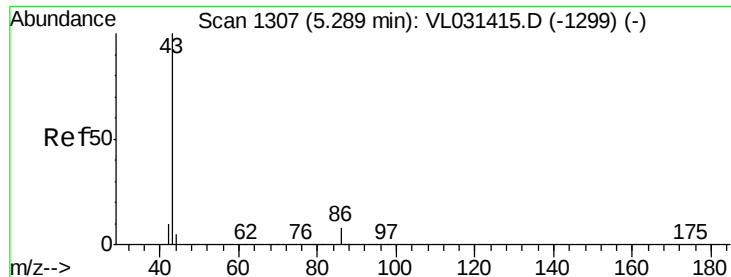
MMDadoda
1/24/2018 5:10:21 PM



#22
trans-1,2-Dichloroethene
Concen: 0.12 ppbv
RT: 5.10 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	189.6	135.0	202.4
98	76.3	52.2	78.2





#23

Vinyl Acetate

Concen: 0.12 ppbv m

RT: 5.30 min Scan# 1309

Delta R.T. 0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

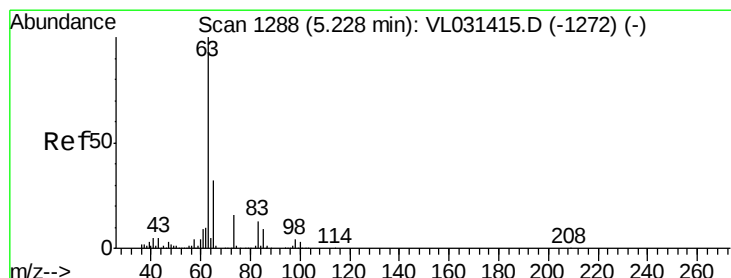
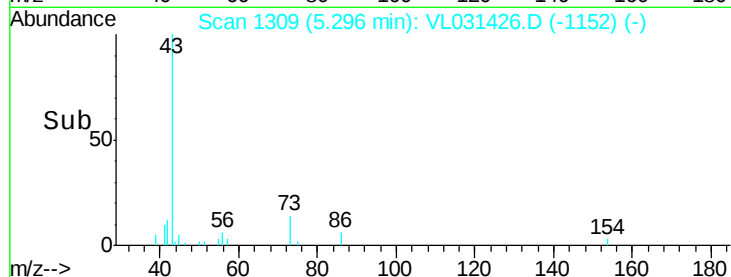
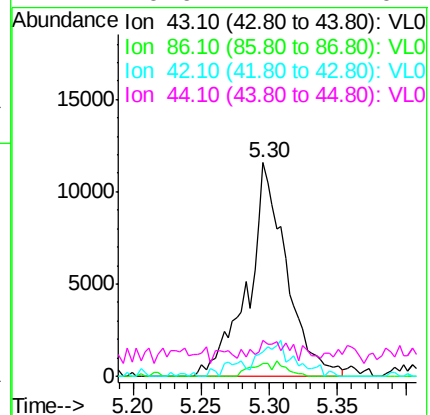
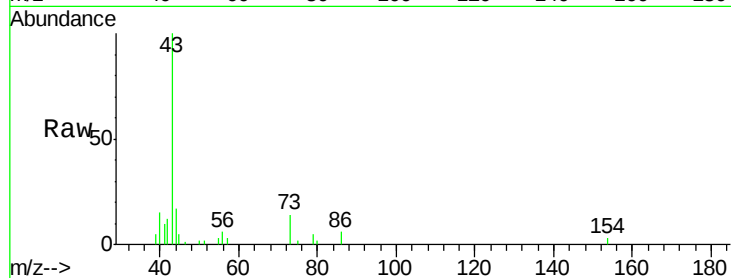
ClientSampleId :

MDL-AIR-1DL

Tot Ion	43	Resp	22507
Ion Ratio	Lower	Upper	
43	100		
86	6.1	5.6	8.4
42	11.5	8.6	12.8
44	16.6	4.2	6.4#

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#24

1,1-Dichloroethane

Concen: 0.14 ppbv

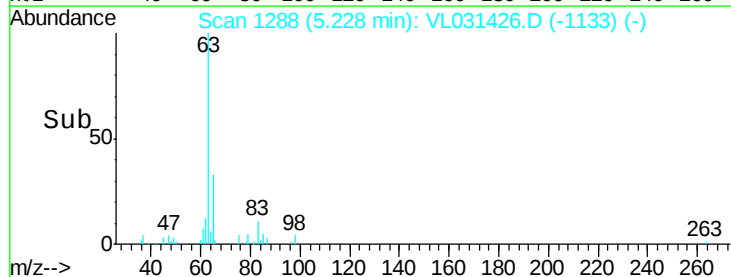
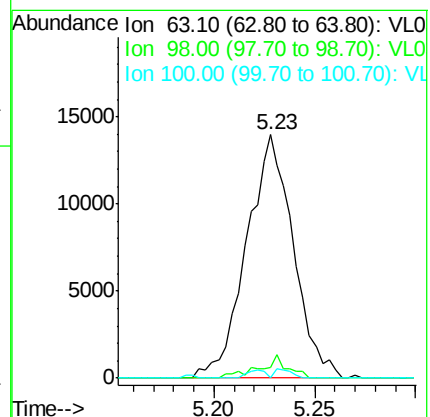
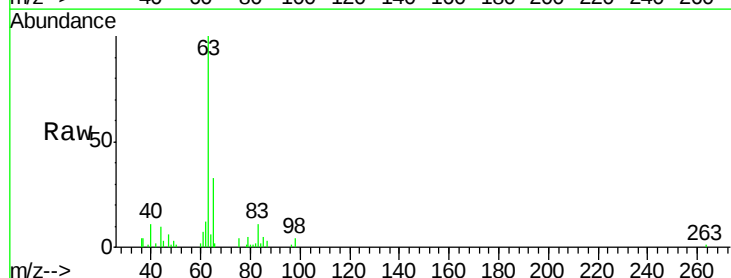
RT: 5.23 min Scan# 1288

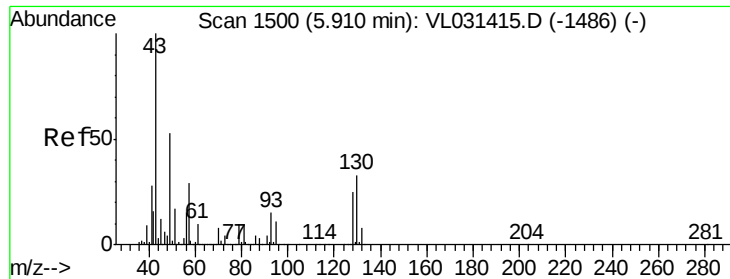
Delta R.T. -0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion	63	Resp	22597
Ion Ratio	Lower	Upper	
63	100		
98	4.3	2.4	7.1
100	0.0	1.3	3.9#





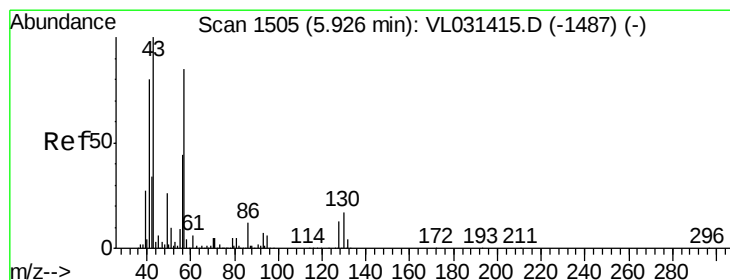
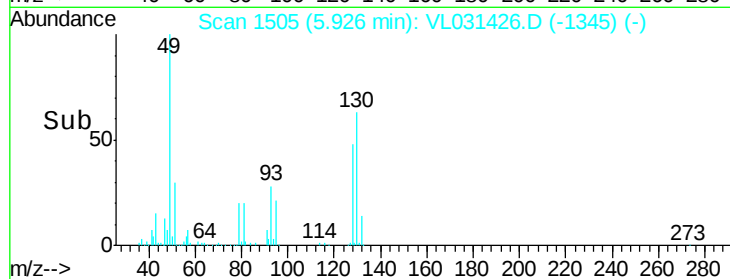
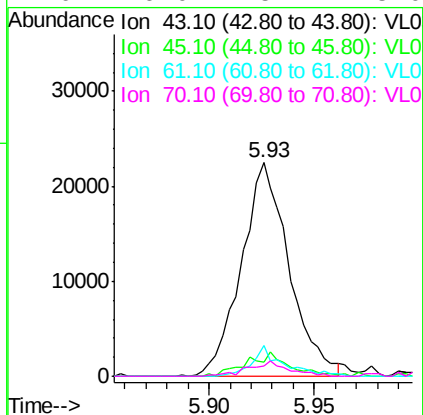
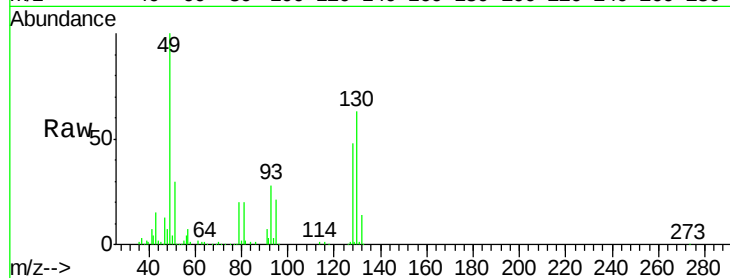
#25
Ethyl Acetate
Concen: 0.13 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	43	Resp	35366
Ion	Ratio	Lower	Upper
43	100		
45	10.6	7.8	11.6
61	9.4	7.0	10.6
70	6.0	5.4	8.0

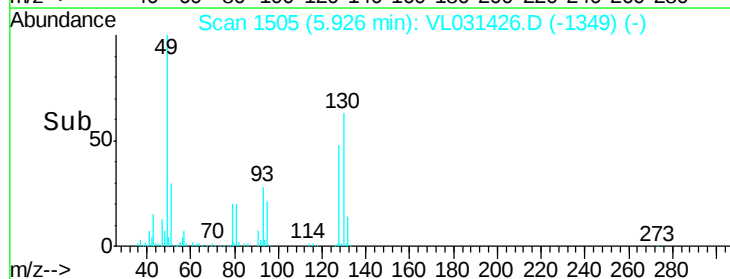
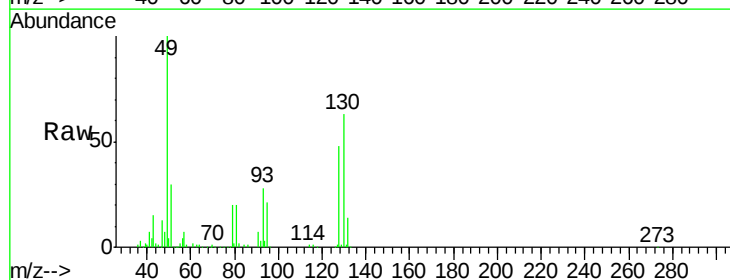
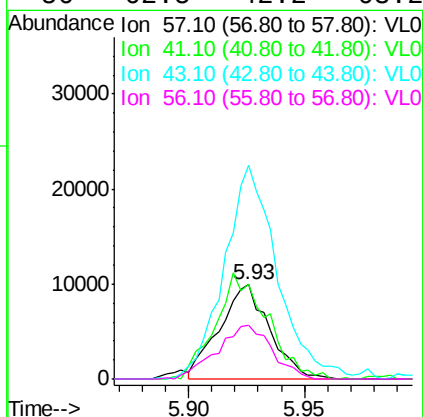
Manual Integrations
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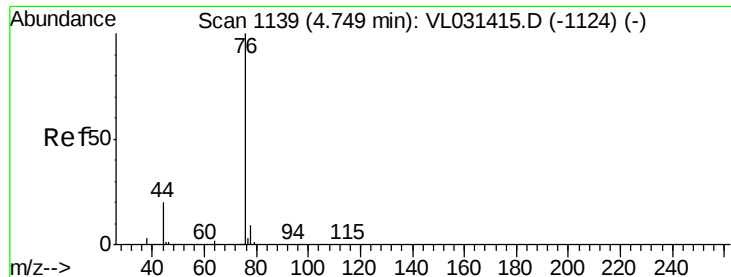
MMDadoda
1/24/2018 5:10:21 PM



#26
Hexane
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	57	Resp	14941
Ion	Ratio	Lower	Upper
57	100		
41	116.2	77.1	115.7#
43	245.2	180.7	271.1
56	62.5	42.2	63.2





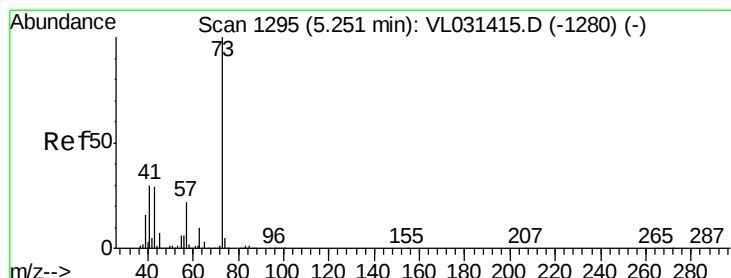
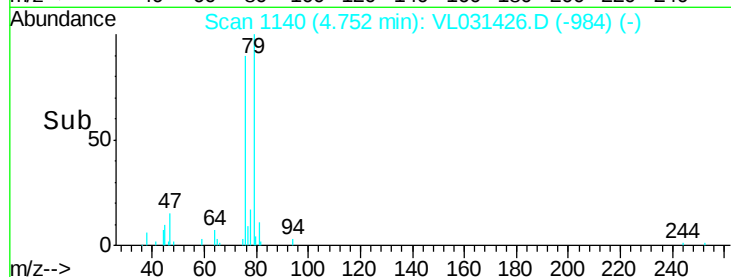
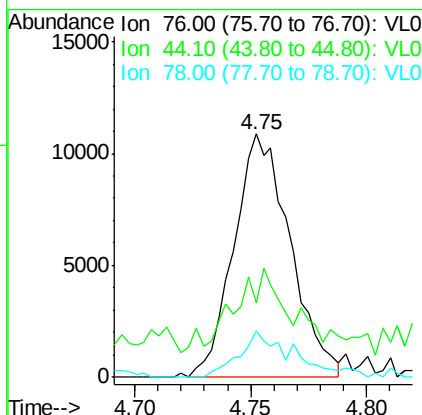
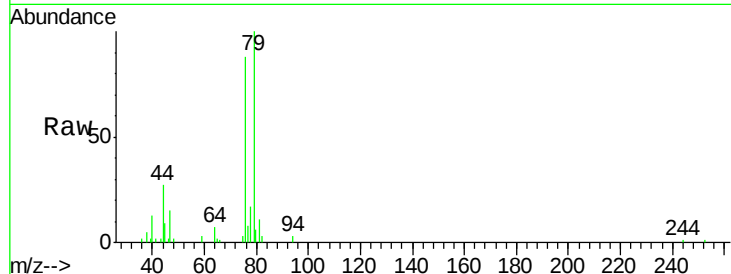
#27
Carbon Disulfide
Concen: 0.11 ppbv
RT: 4.75 min Scan# 1140
Delta R.T. 0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
76	100		
44	39.0	16.7	25.1#
78	19.3	7.5	11.3#

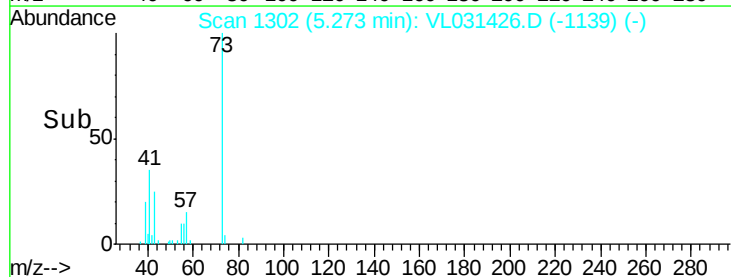
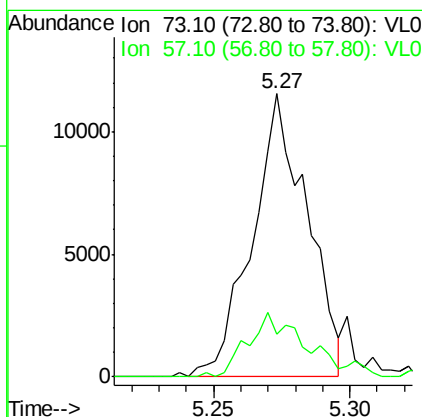
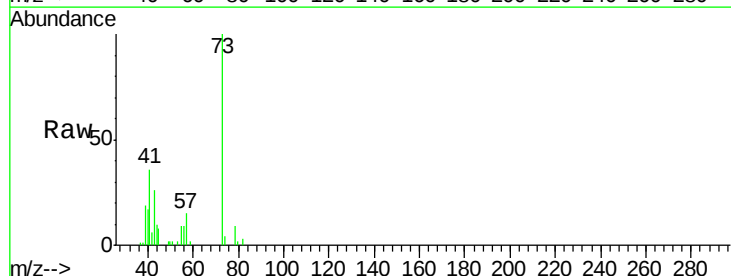
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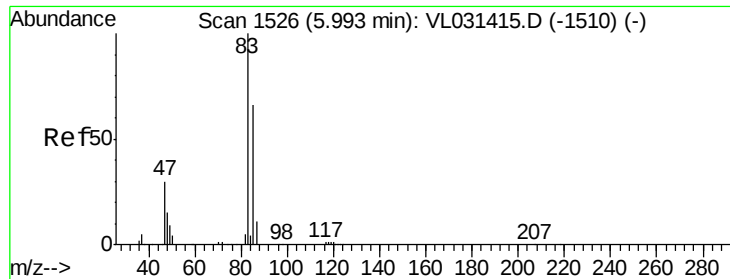
MMDadoda
1/24/2018 5:10:21 PM



#28
Methyl tert-Butyl Ether
Concen: 0.11 ppbv
RT: 5.27 min Scan# 1302
Delta R.T. 0.02 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
73	100		
57	25.4	17.5	26.3





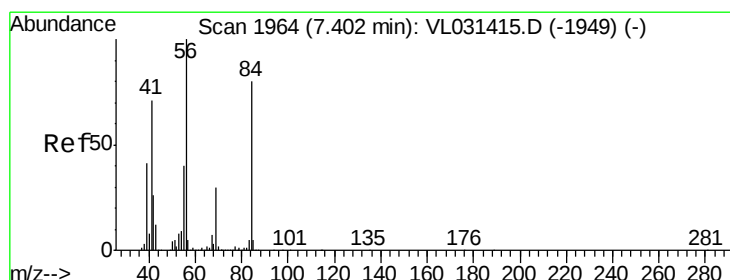
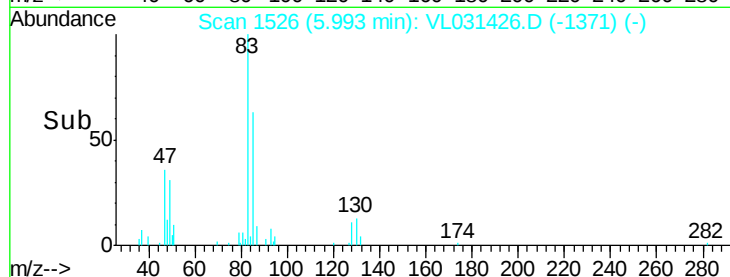
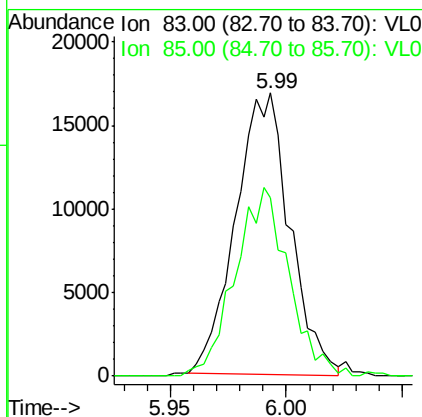
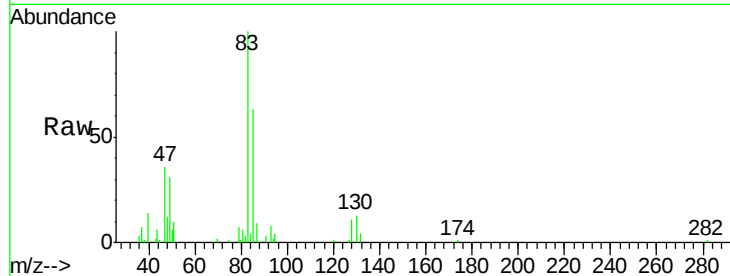
#29
Chloroform
Concen: 0.13 ppbv
RT: 5.99 min Scan# 1526
Delta R.T. -0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	83	Resp	27376
Ion Ratio	Lower	Upper	
83	100		
85	62.5	51.3	76.9

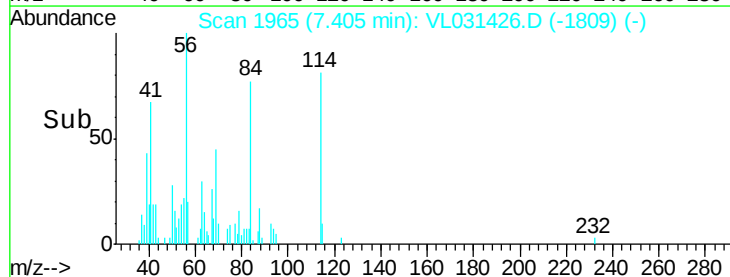
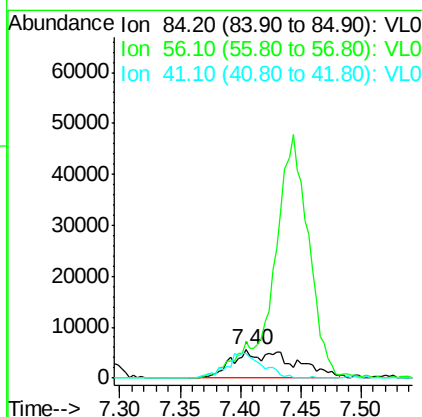
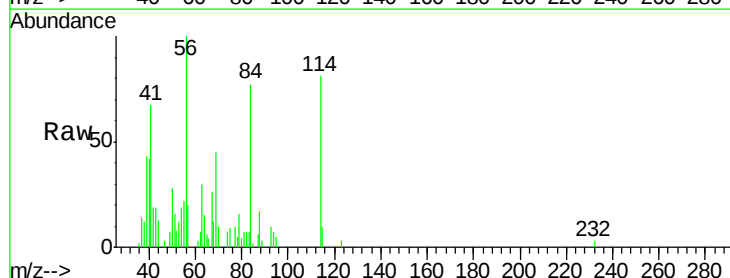
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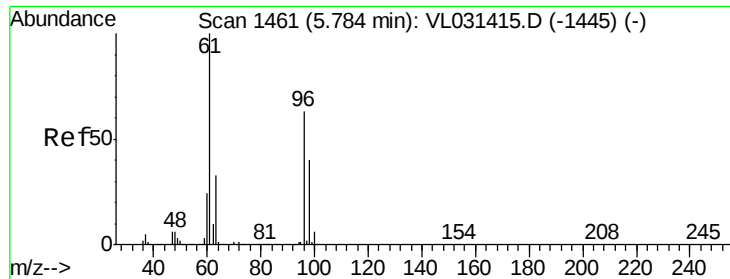
MMDadoda
1/24/2018 5:10:21 PM



#30
Cyclohexane
Concen: 0.20 ppbv m
RT: 7.40 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	84	Resp	19290
Ion Ratio	Lower	Upper	
84	100		
56	0.0	109.0	163.4#
41	52.9	73.3	109.9#





#31

cis-1,2-Dichloroethene

Concen: 0.12 ppbv

RT: 5.78 min Scan# 1460

Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

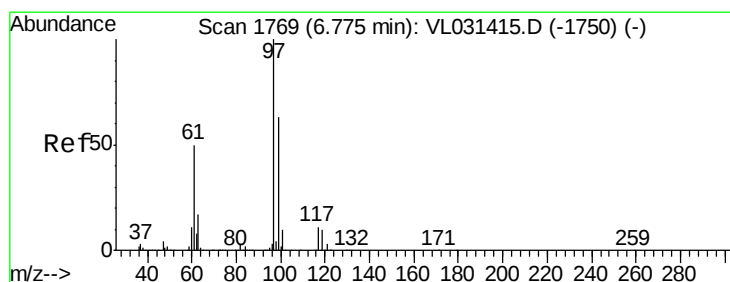
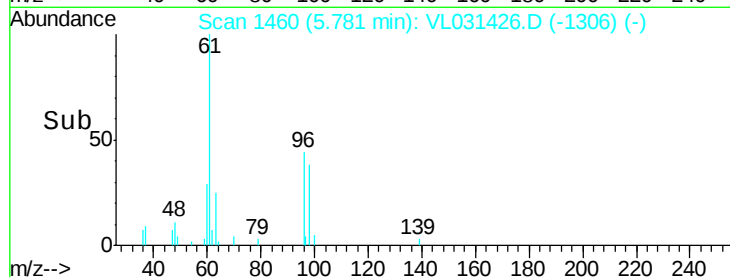
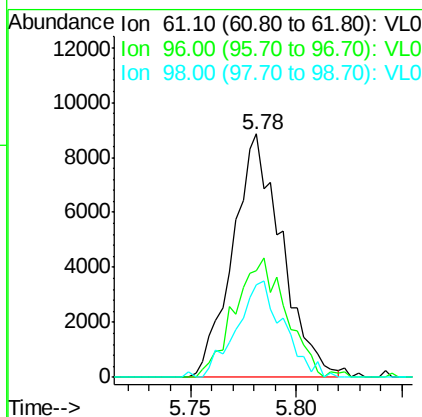
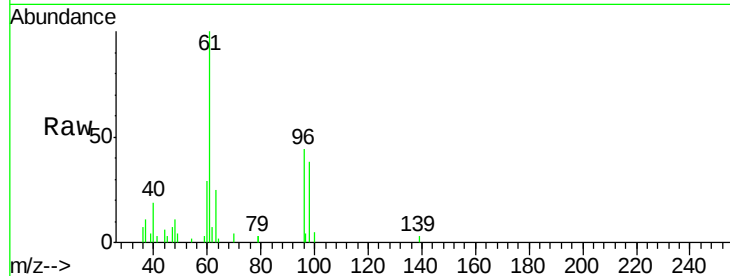
ClientSampleId :

MDL-AIR-1DL

Tot Ion:	61	Resp:	14275
Ion	Ratio	Lower	Upper
61	100		
96	40.7	51.3	76.9#
98	35.5	33.6	50.4

Manual Integrations
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1/24/2018 5:10:21 PM



#32

1,1,1-Trichloroethane

Concen: 0.13 ppbv

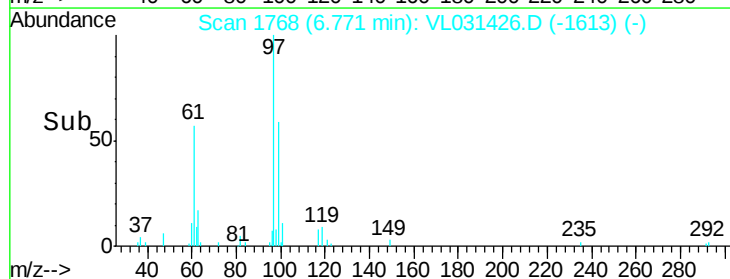
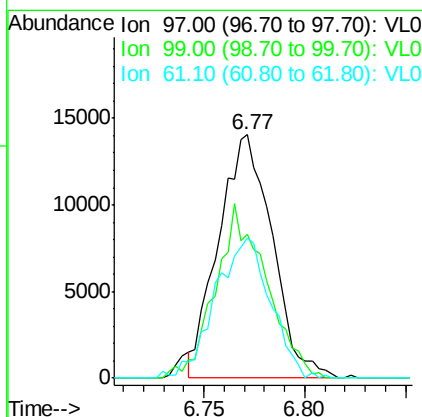
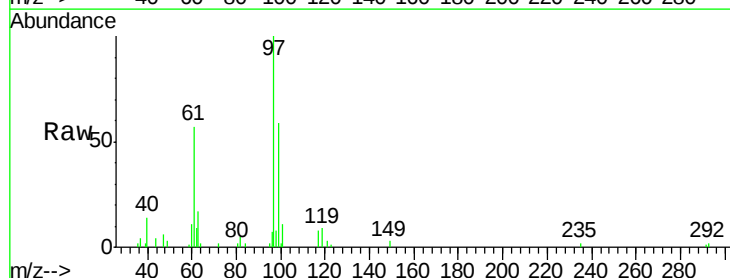
RT: 6.77 min Scan# 1768

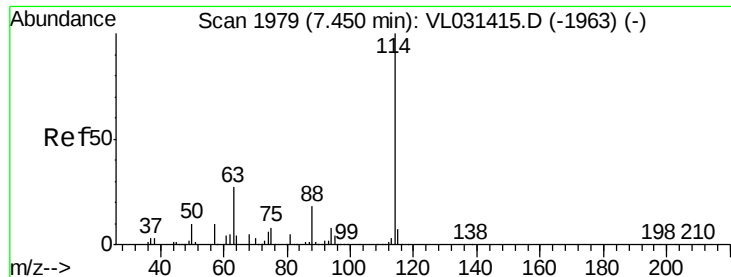
Delta R.T. -0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion:	97	Resp:	26116
Ion	Ratio	Lower	Upper
97	100		
99	67.4	51.9	77.9
61	59.2	40.6	61.0





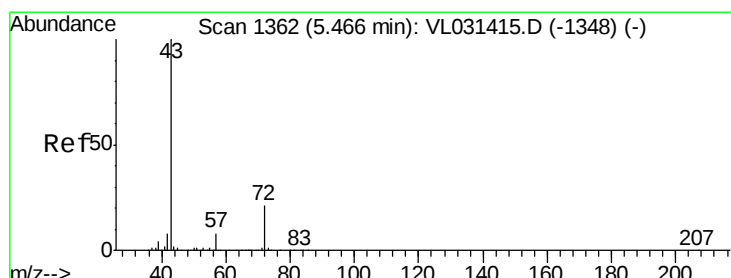
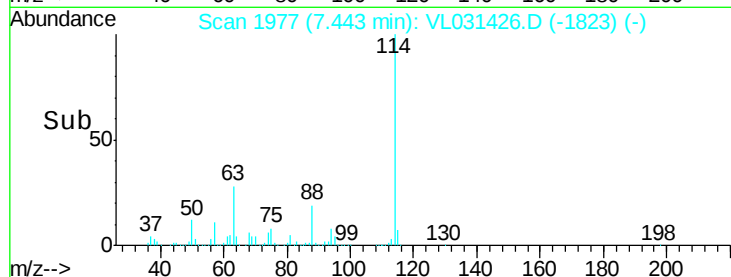
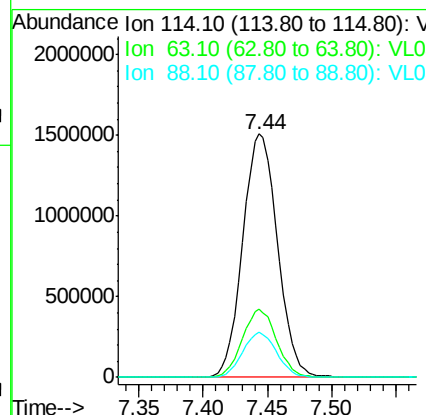
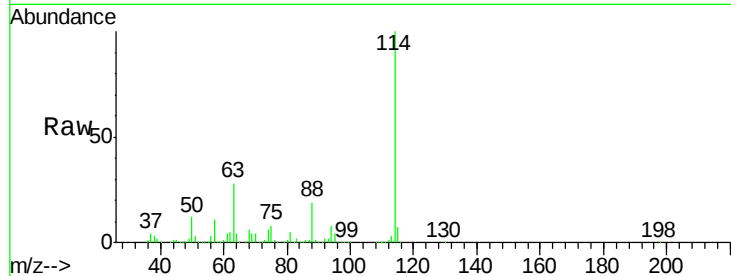
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.44 min Scan# 1977
 Delta R.T. -0.01 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.5	33.7
88	18.3	14.6	22.0

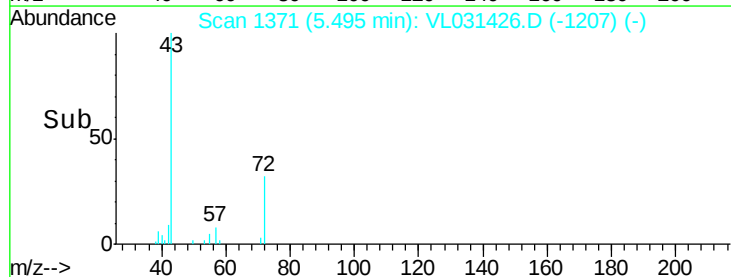
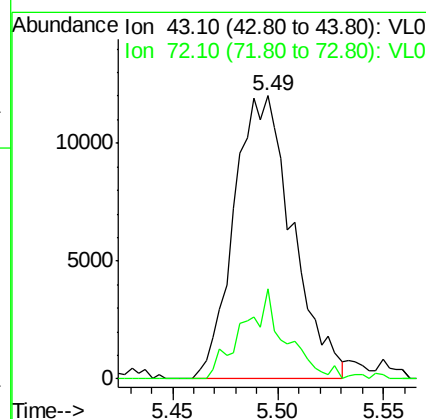
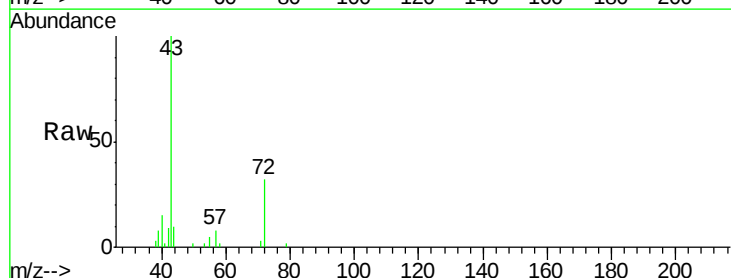
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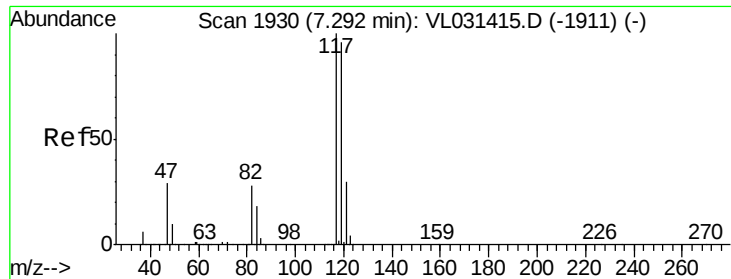
MMDadoda
 1/24/2018 5:10:21 PM



#34
 2-Butanone
 Concen: 0.13 ppbv
 RT: 5.49 min Scan# 1371
 Delta R.T. 0.03 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.8	16.8	25.2





#35

Carbon Tetrachloride

Concen: 0.13 ppbv m

RT: 7.29 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

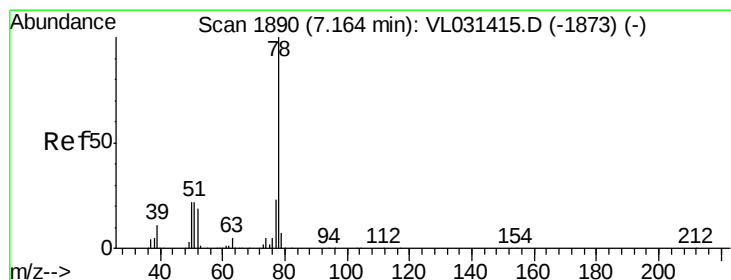
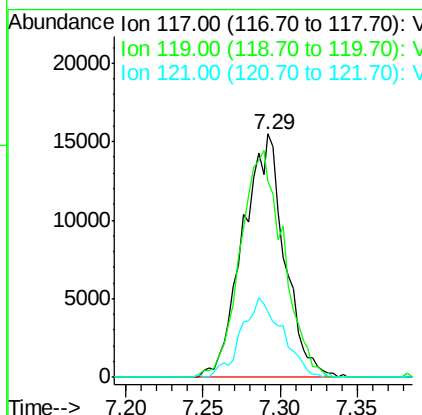
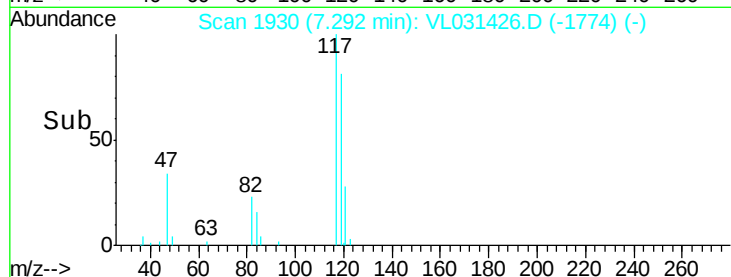
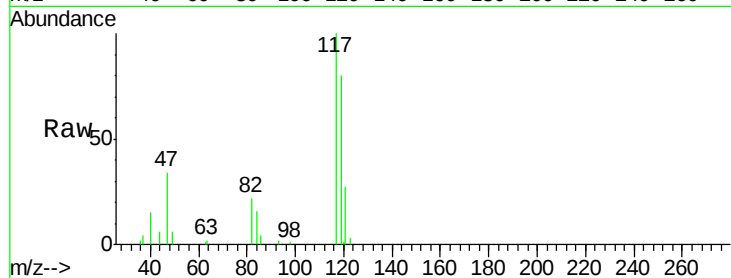
ClientSampleId :

MDL-AIR-1DL

Tot Ion:	117	Resp:	29111
Ion Ratio	Lower	Upper	
117	100		
119	80.4	74.2	111.4
121	26.7	24.2	36.4

Manual Integrations
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MMDadoda
1/24/2018 5:10:21 PM



#36

Benzene

Concen: 0.11 ppbv

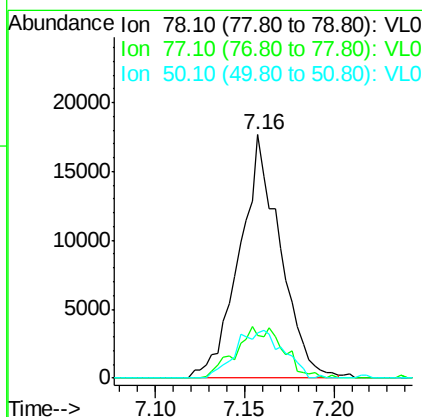
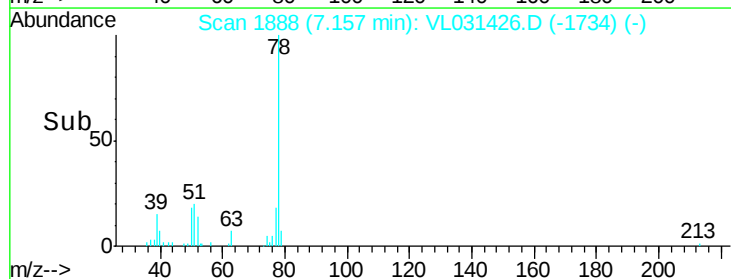
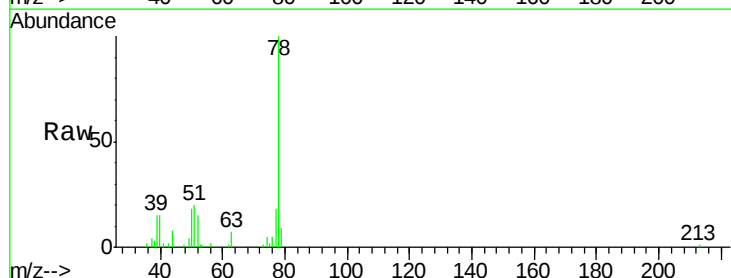
RT: 7.16 min Scan# 1888

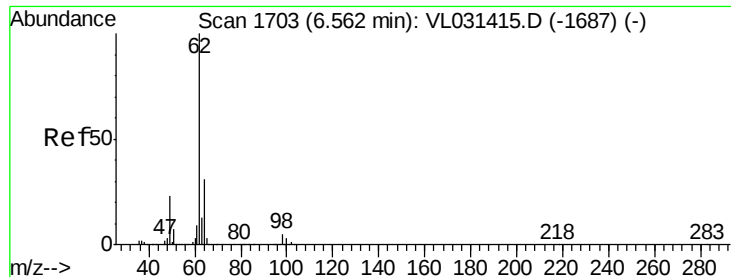
Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion:	78	Resp:	28095
Ion Ratio	Lower	Upper	
78	100		
77	17.6	18.7	28.1#
50	18.4	18.4	27.6#





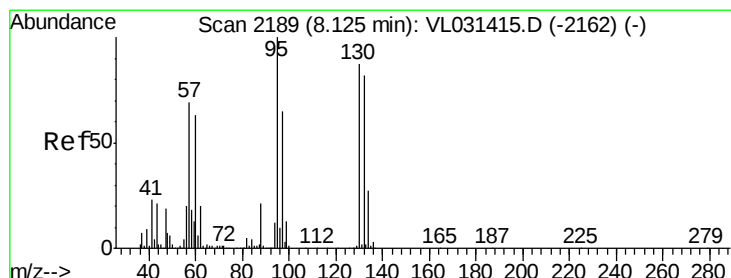
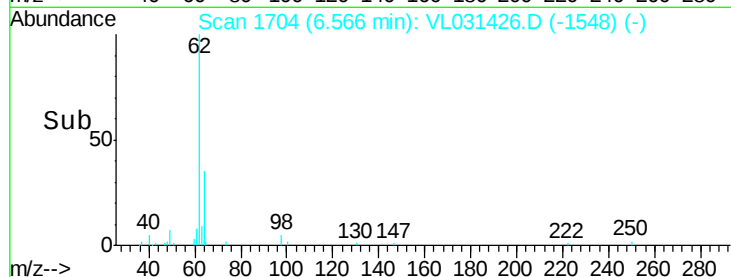
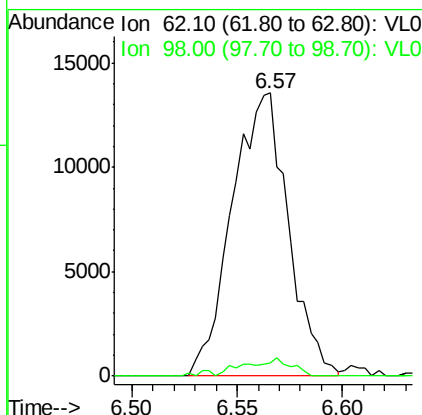
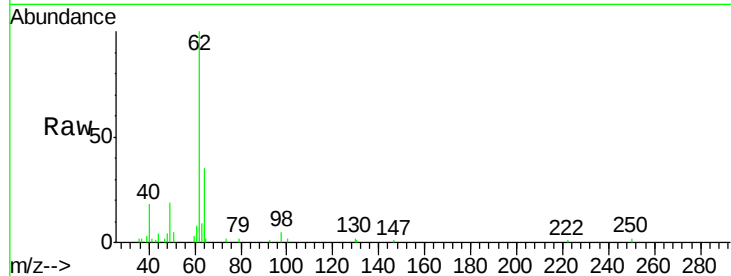
#37
 1,2-Dichloroethane
 Concen: 0.13 ppbv
 RT: 6.57 min Scan# 1704
 Delta R.T. 0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

Tot Ion	Ratio	Resp Lower	Upper
62	100		
98	5.6	4.1	6.1

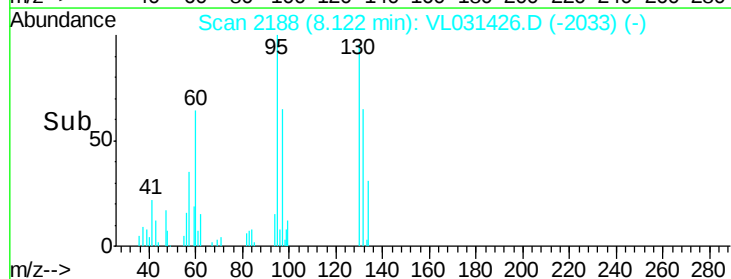
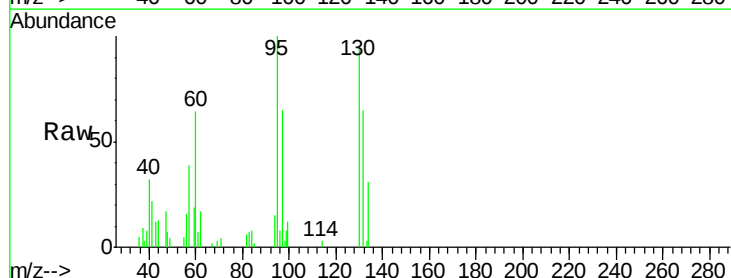
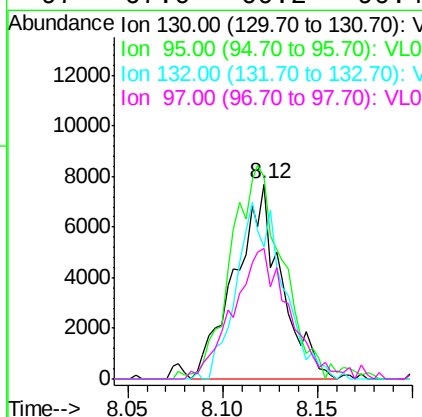
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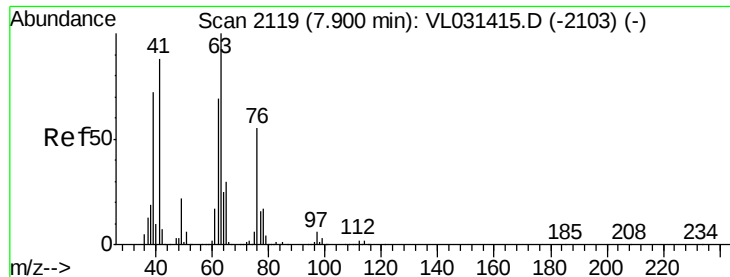
MMDadoda
 1/24/2018 5:10:21 PM



#38
 Trichloroethene
 Concen: 0.13 ppbv m
 RT: 8.12 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Resp Lower	Upper
130	100		
95	103.8	92.9	139.3
132	68.0	74.9	112.3#
97	67.0	60.2	90.4





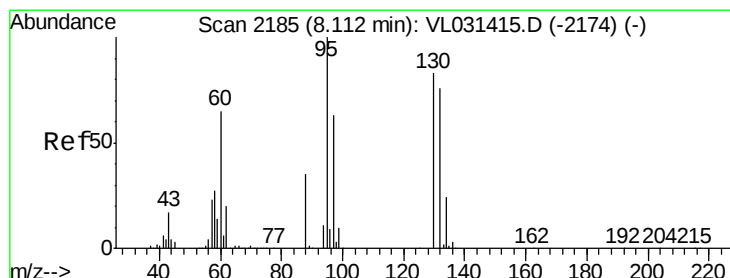
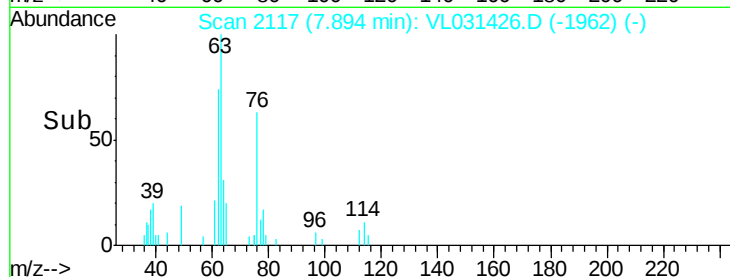
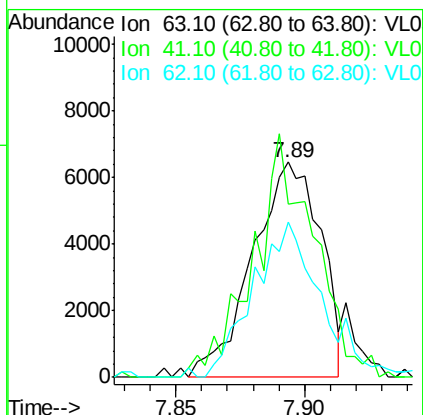
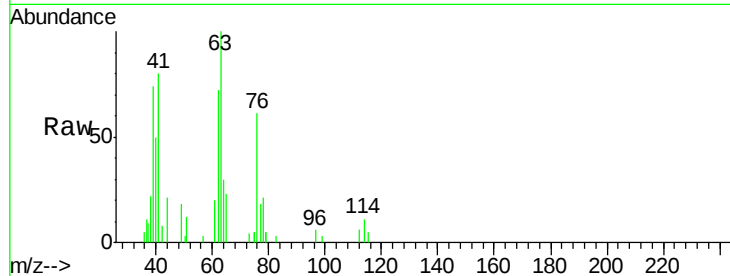
#39
 1,2-Dichloropropane
 Concen: 0.13 ppbv
 RT: 7.89 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleID :
 MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.8	67.6	101.4
62	67.5	51.8	77.6

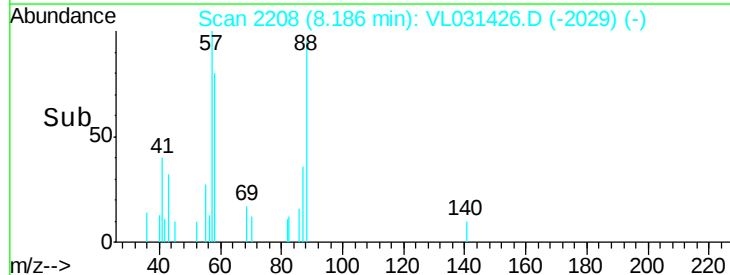
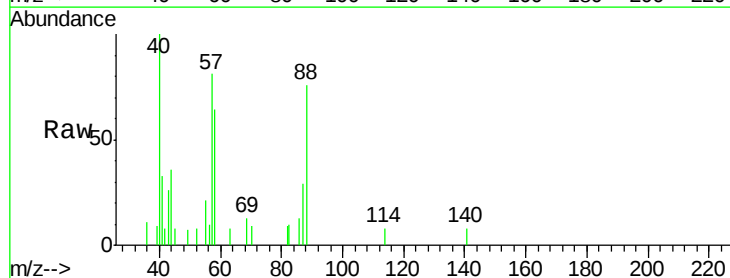
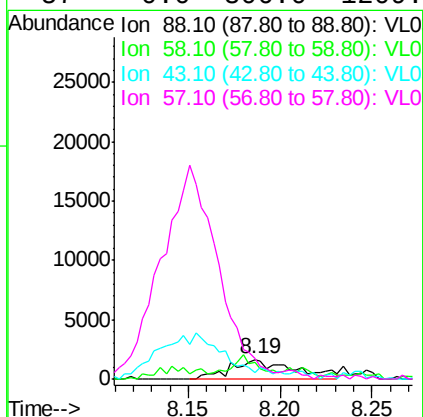
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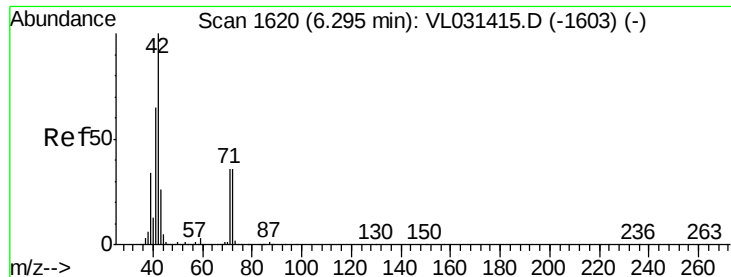
MMDadoda
 1/24/2018 5:10:21 PM



#40
 1,4-Dioxane
 Concen: 0.10 ppbv m
 RT: 8.19 min Scan# 2208
 Delta R.T. 0.07 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	98.2	147.2#
43	0.0	197.3	295.9#
57	0.0	806.0	1209.0#





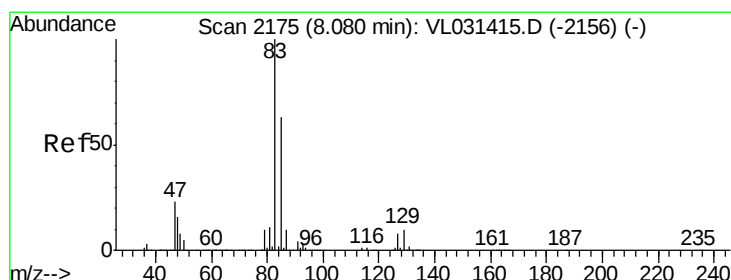
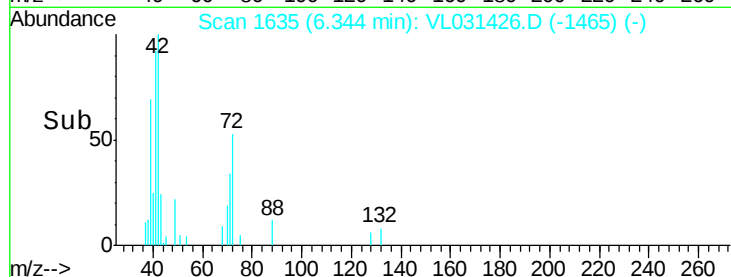
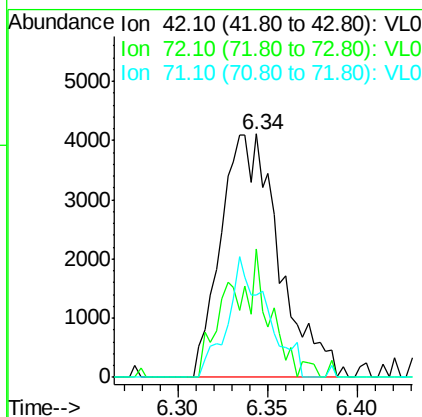
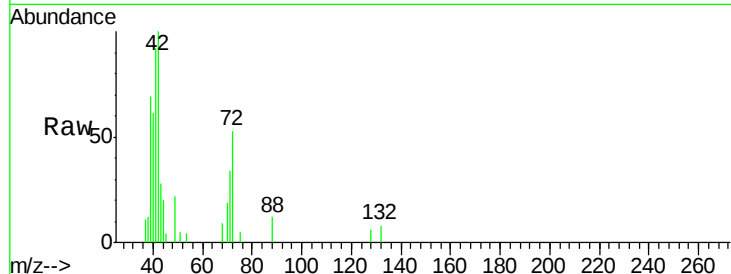
#41
Tetrahydrofuran
Concen: 0.09 ppbv m
RT: 6.34 min Scan# 1635
Delta R.T. 0.05 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.4	45.6#
71	33.7	29.2	43.8

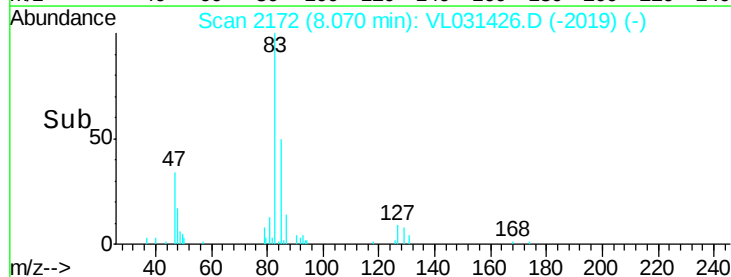
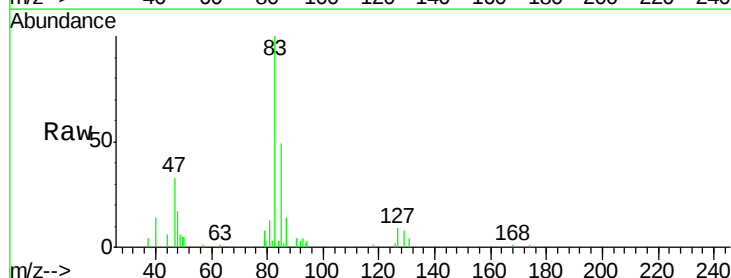
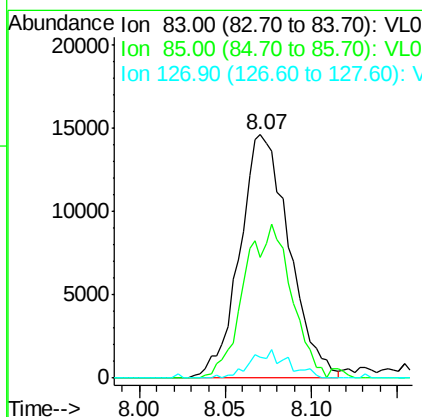
Manual Integrations
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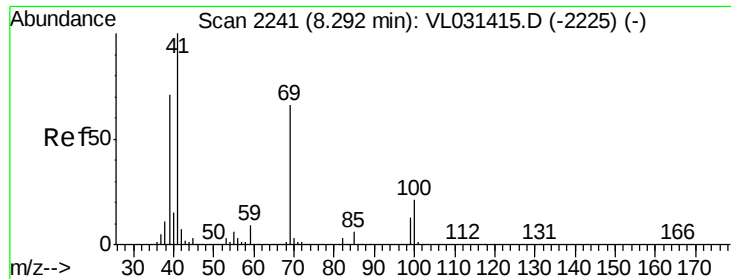
MMDadoda
1/24/2018 5:10:21 PM



#42
Bromodichloromethane
Concen: 0.12 ppbv
RT: 8.07 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	51.4	52.1	78.1#
127	8.5	6.6	10.0





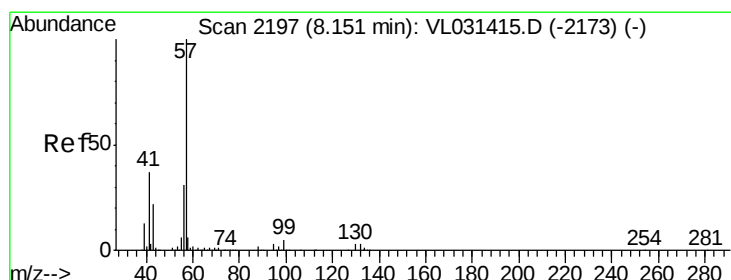
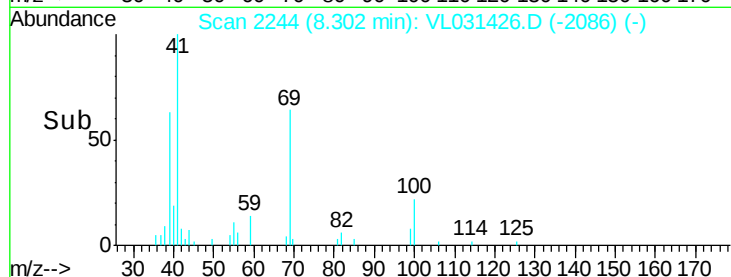
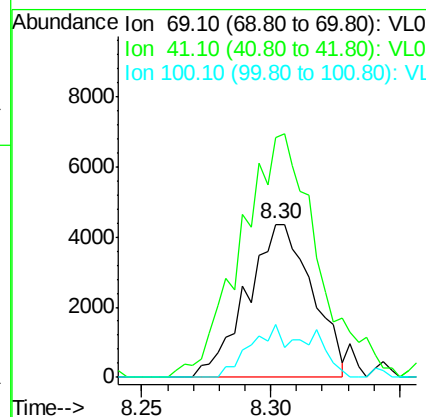
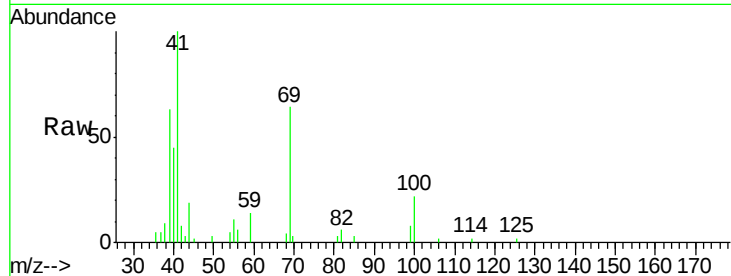
#43
Methvl Methacrilate
Concen: 0.08 ppbv
RT: 8.30 min Scan# 2244
Delta R.T. 0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
69	100		
41	190.7	127.0	190.6#
100	33.0	24.6	37.0

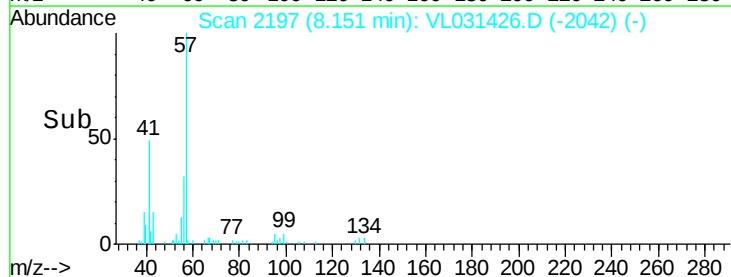
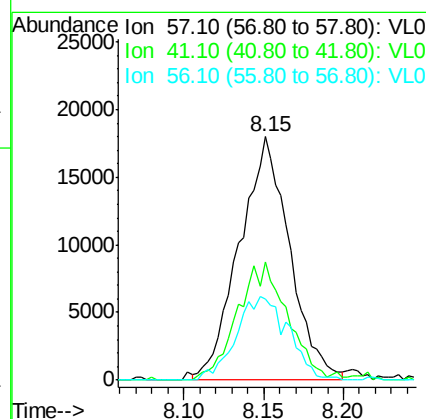
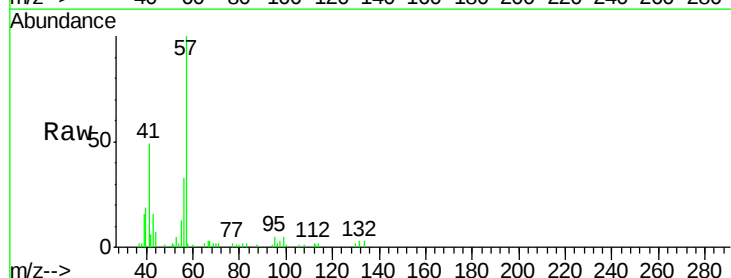
Manual Integrations
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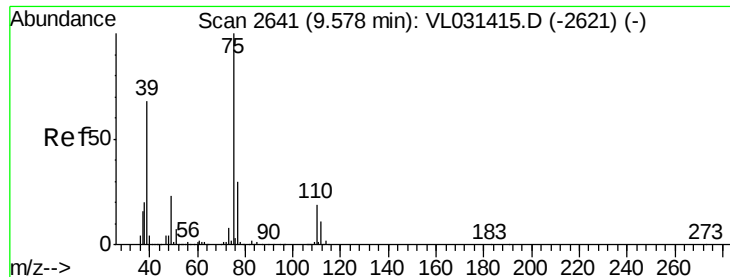
MMDadoda
1/24/2018 5:10:21 PM



#44
2,2,4-Trimethylpentane
Concen: 0.09 ppbv
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
57	100		
41	49.6	28.8	43.2#
56	35.6	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 0.08 ppbv m

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-1DL

Tot Ion: 75 Resp: 10161

Ion Ratio Lower Upper

75 100

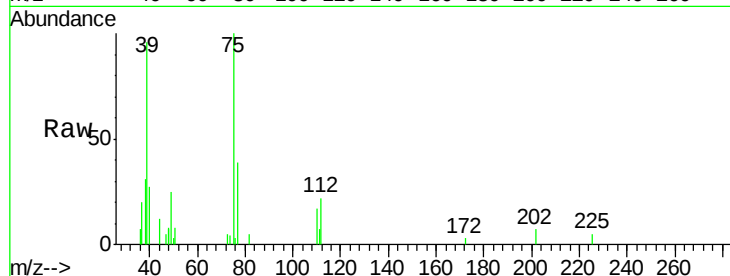
77 38.6 25.3 37.9#

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

6000

5000

4000

3000

2000

1000

0

9.55

9.60

9.65

9.70

9.75

9.80

9.85

9.90

9.95

10.00

10.05

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

12.80

12.85

12.90

12.95

13.00

13.05

13.10

13.15

13.20

13.25

13.30

13.35

13.40

13.45

13.50

13.55

13.60

13.65

13.70

13.75

13.80

13.85

13.90

13.95

14.00

14.05

14.10

14.15

14.20

14.25

14.30

14.35

14.40

14.45

14.50

14.55

14.60

14.65

14.70

14.75

14.80

14.85

14.90

14.95

15.00

15.05

15.10

15.15

15.20

15.25

15.30

15.35

15.40

15.45

15.50

15.55

15.60

15.65

15.70

15.75

15.80

15.85

15.90

15.95

16.00

16.05

16.10

16.15

16.20

16.25

16.30

16.35

16.40

16.45

16.50

16.55

16.60

16.65

16.70

16.75

16.80

16.85

16.90

16.95

17.00

17.05

17.10

17.15

17.20

17.25

17.30

17.35

17.40

17.45

17.50

17.55

17.60

17.65

17.70

17.75

17.80

17.85

17.90

17.95

18.00

18.05

18.10

18.15

18.20

18.25

18.30

18.35

18.40

18.45

18.50

18.55

18.60

18.65

18.70

18.75

18.80

18.85

18.90

18.95

19.00

19.05

19.10

19.15

19.20

19.25

19.30

19.35

19.40

19.45

19.50

19.55

19.60

19.65

19.70

19.75

19.80

19.85

19.90

19.95

20.00

20.05

20.10

20.15

20.20

20.25

20.30

20.35

20.40

20.45

20.50

20.55

20.60

20.65

20.70

20.75

20.80

20.85

20.90

20.95

21.00

21.05

21.10

21.15

21.20

21.25

21.30

21.35

21.40

21.45

21.50

21.55

21.60

21.65

21.70

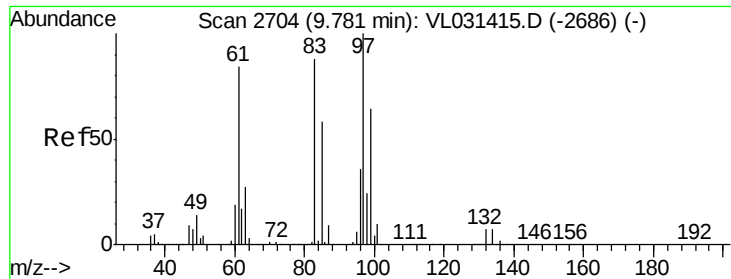
21.75

21.80

21.85

21.90

21.95



#47

1,1,2-Trichloroethane

Concen: 0.13 ppbv

RT: 9.78 min Scan# 2703

Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

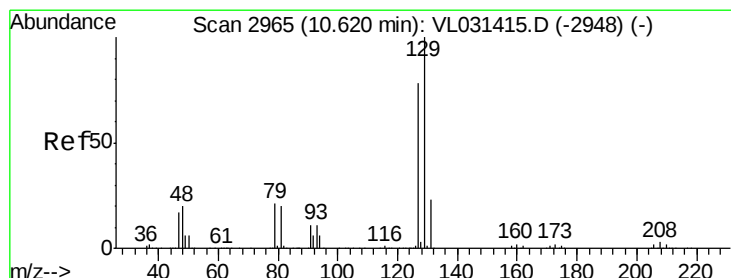
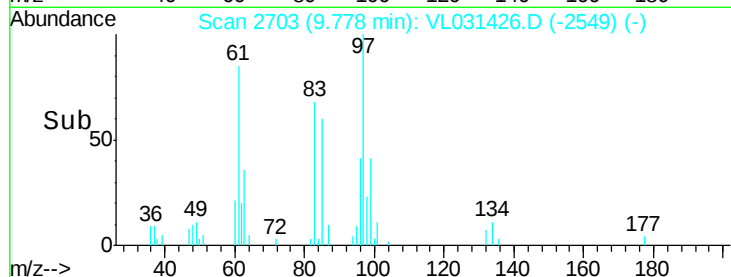
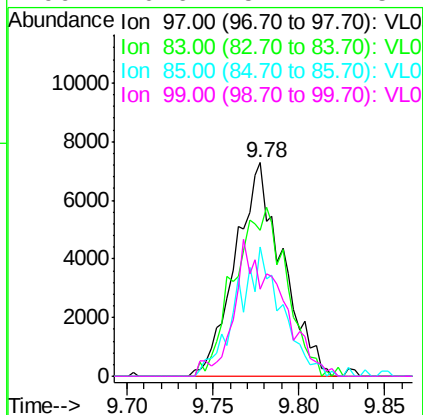
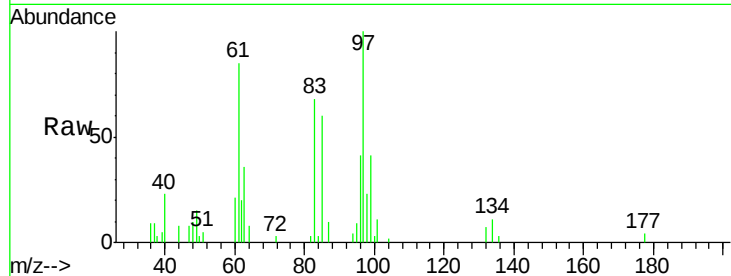
ClientSampleId :

MDL-AIR-1DL

Tot Ion:	97	Resp:	13919
Ion	Ratio	Lower	Upper
97	100		
83	68.4	71.4	107.2#
85	60.3	46.2	69.2
99	40.6	52.2	78.2#

Manual Integrations
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#48

Dibromochloromethane

Concen: 0.11 ppbv m

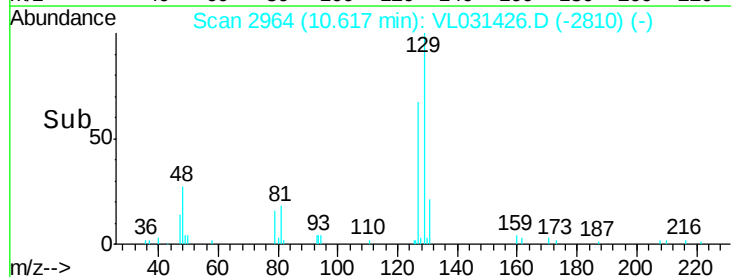
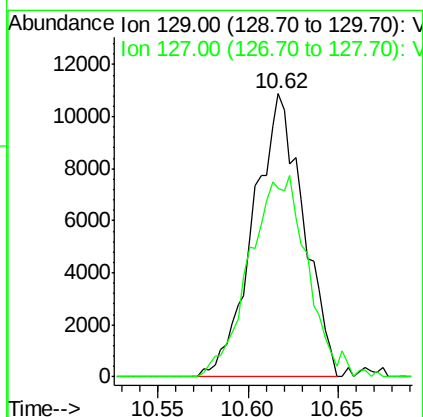
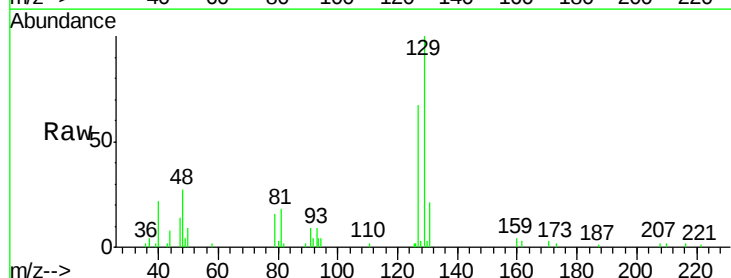
RT: 10.62 min Scan# 2964

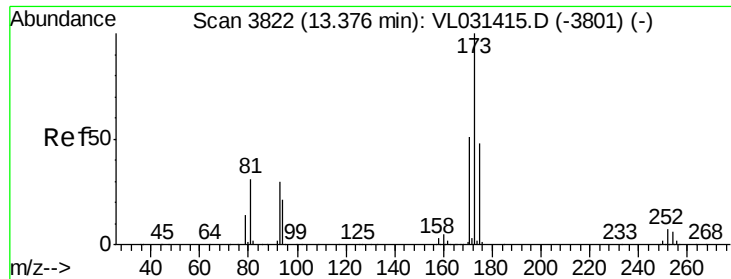
Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion:	129	Resp:	21015
Ion	Ratio	Lower	Upper
129	100		
127	82.3	39.4	118.1





#49

Bromoform

Concen: 0.10 ppbv

RT: 13.38 min Scan# 3822

Delta R.T. -0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

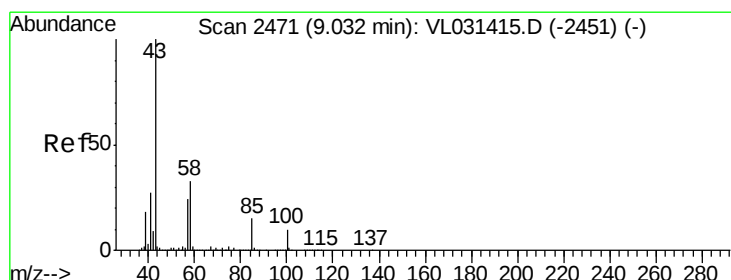
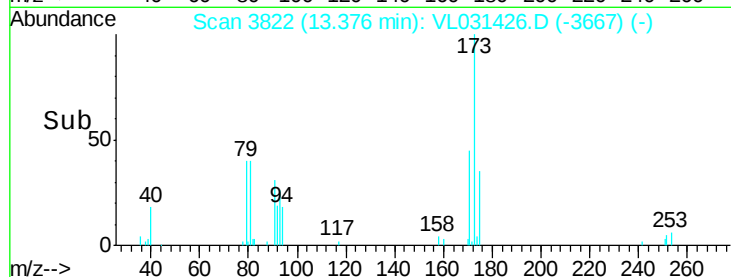
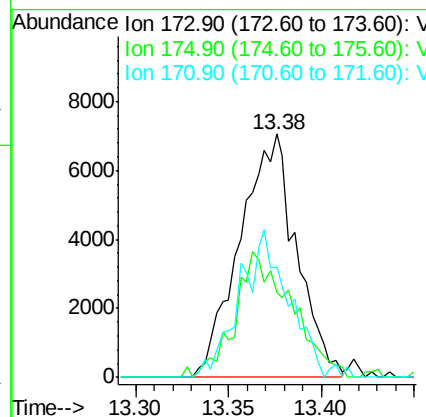
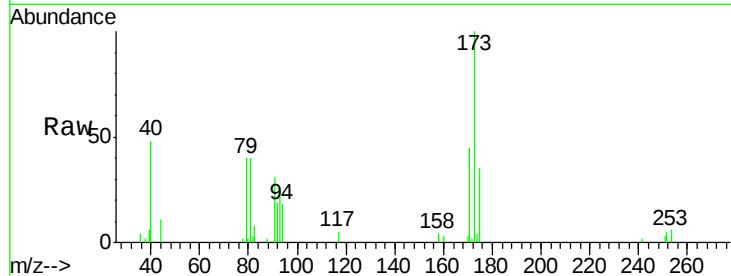
ClientSampleId :

MDL-AIR-1DL

Tot Ion:	173	Resp:	14953
Ion Ratio	Lower	Upper	
173	100		
175	52.2	39.0	58.4
171	53.3	42.0	63.0

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.09 ppbv m

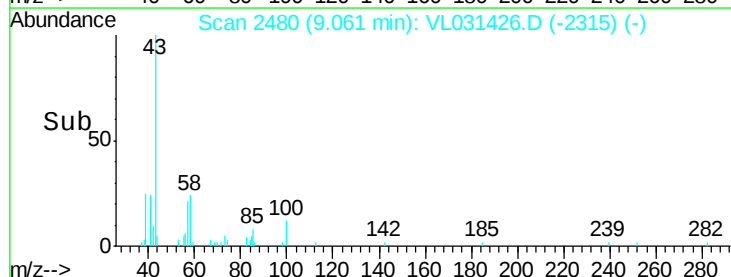
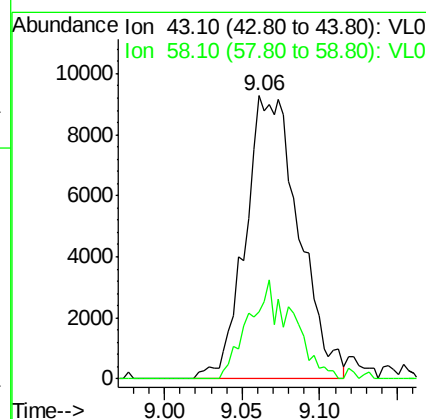
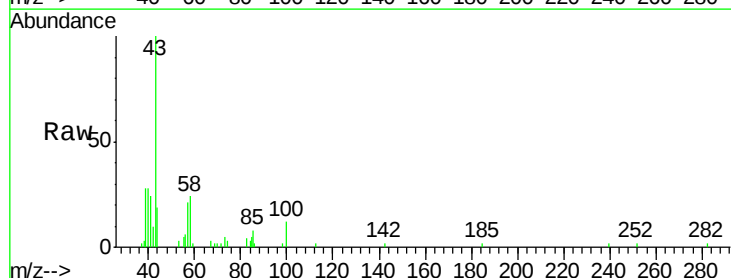
RT: 9.06 min Scan# 2480

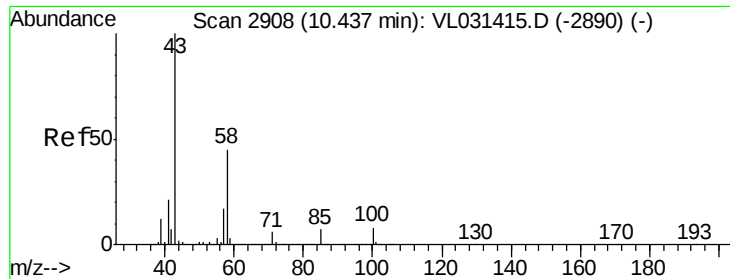
Delta R.T. 0.03 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion:	43	Resp:	22049
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# 2919

Delta R.T. 0.04 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

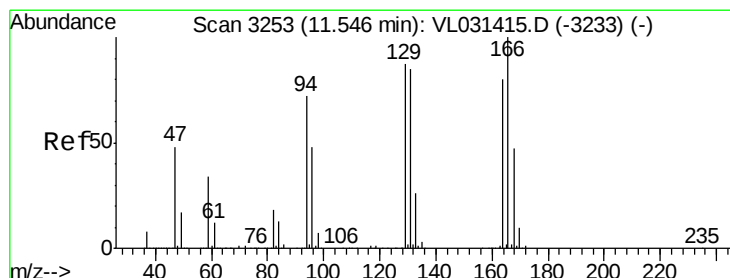
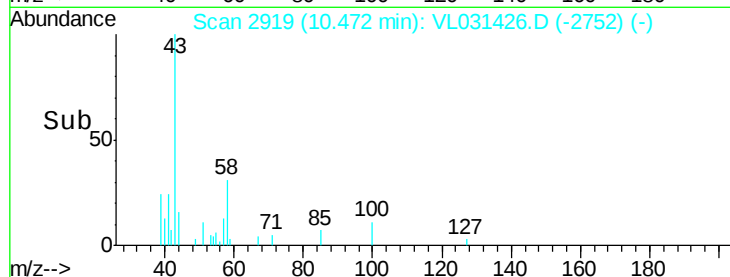
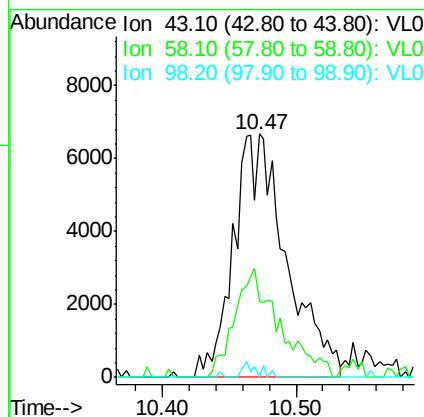
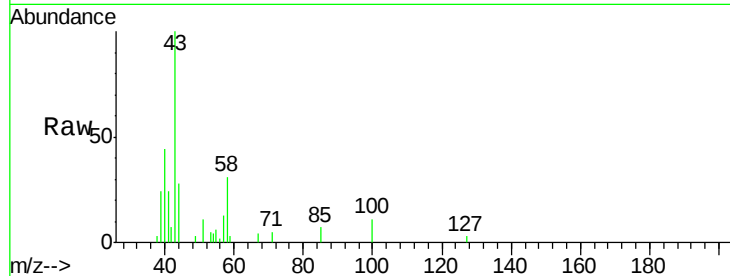
ClientSampleId :

MDL-AIR-1DL

Tot Ion:	43	Resp:	18342
Ion Ratio	Lower	Upper	
43	100		
58	0.0	36.2	54.4#
98	1.9	0.1	0.1#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.12 ppbv

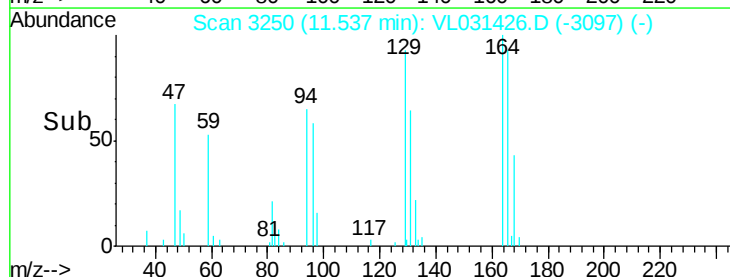
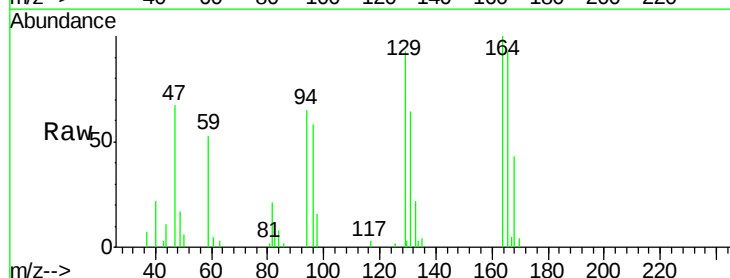
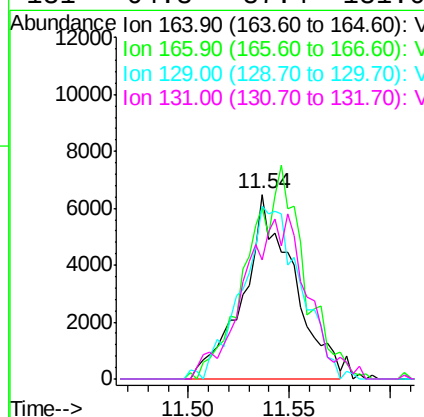
RT: 11.54 min Scan# 3250

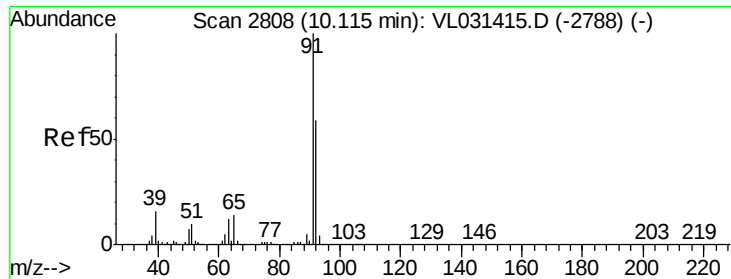
Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion:	164	Resp:	11268
Ion Ratio	Lower	Upper	
164	100		
166	89.2	100.2	150.2#
129	96.6	91.4	137.0
131	64.3	87.4	131.0#





#53

Toluene

Concen: 0.08 ppbv m

RT: 10.12 min Scan# 2808

Delta R.T. -0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-1DL

Tot Ion: 91 Resp: 25070

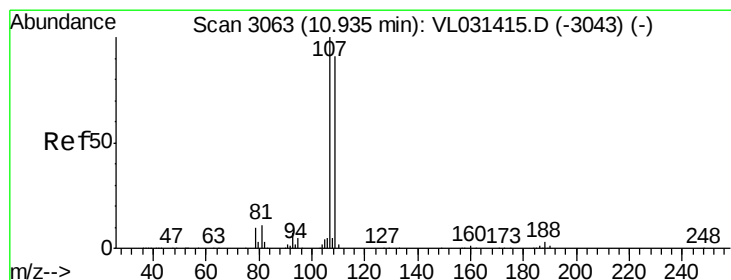
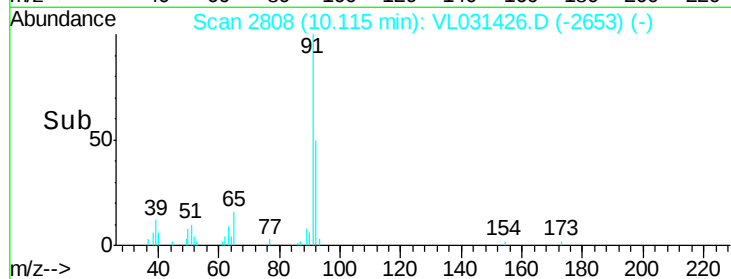
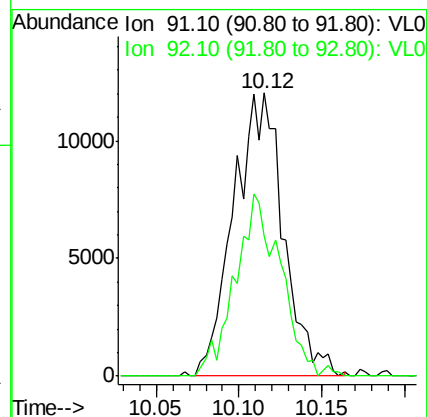
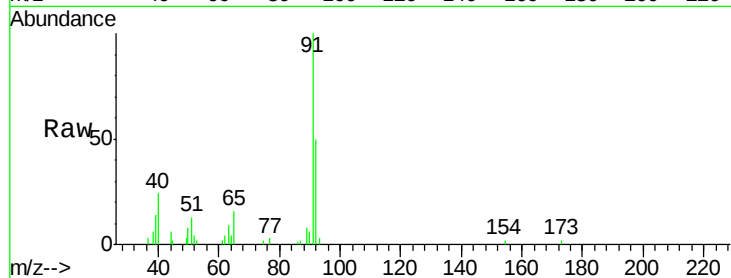
Ion Ratio Lower Upper

91 100

92 58.9 47.8 71.6

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 0.11 ppbv m

RT: 10.93 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VL031426.D

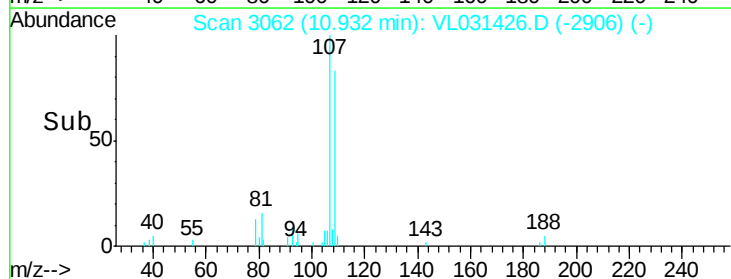
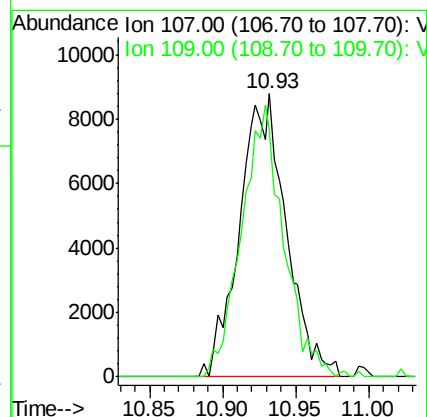
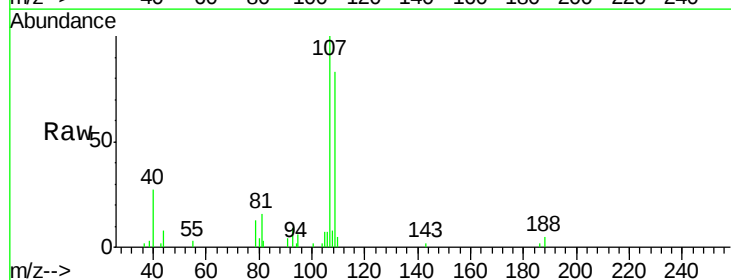
Acq: 22 Jan 2018 21:51

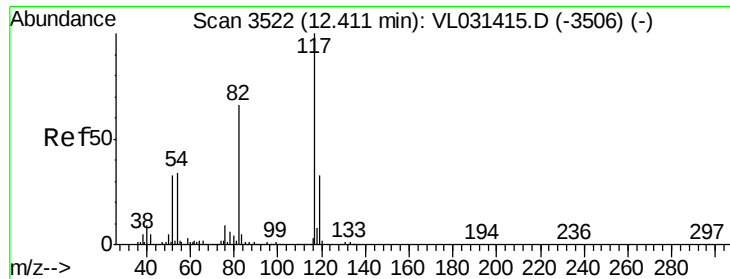
Tgt Ion: 107 Resp: 19392

Ion Ratio Lower Upper

107 100

109 82.9 75.5 113.3





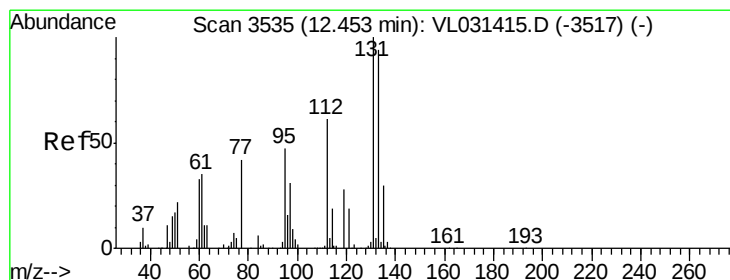
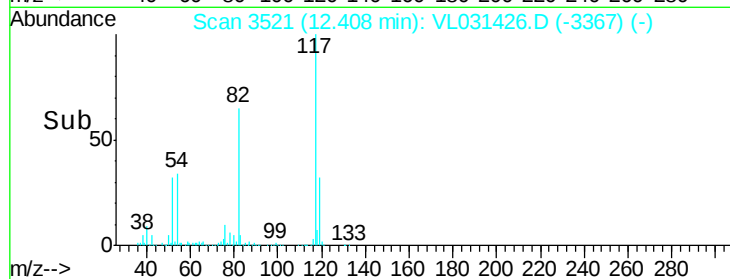
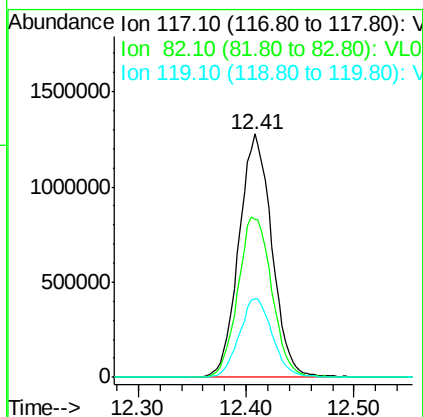
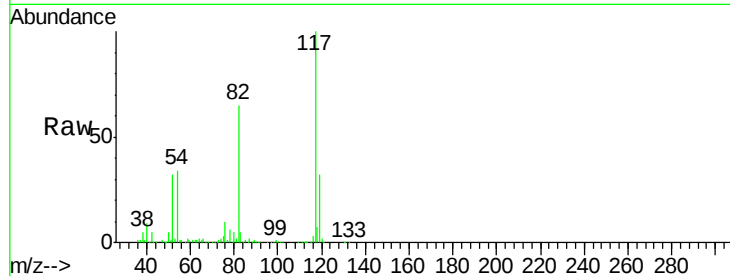
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. -0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.1	51.8	77.6
119	32.8	24.2	36.2

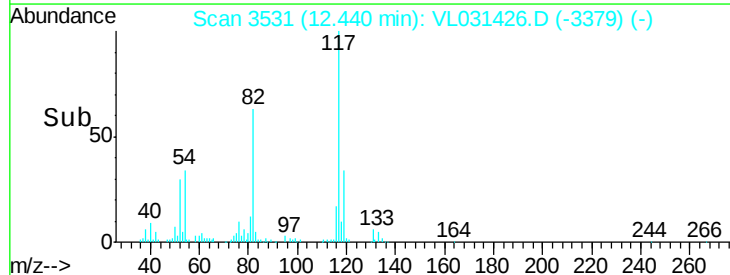
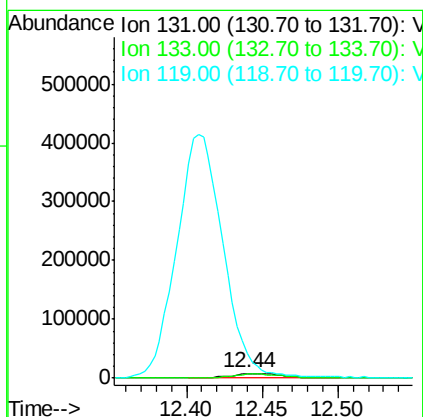
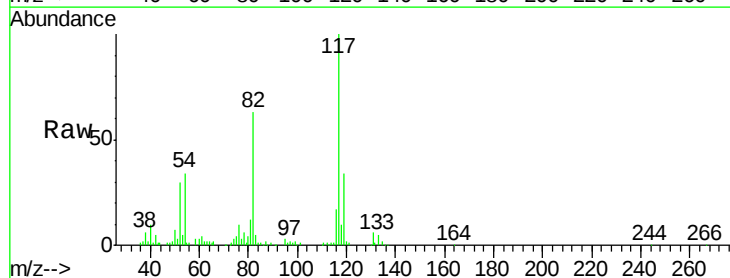
Manual Integrations
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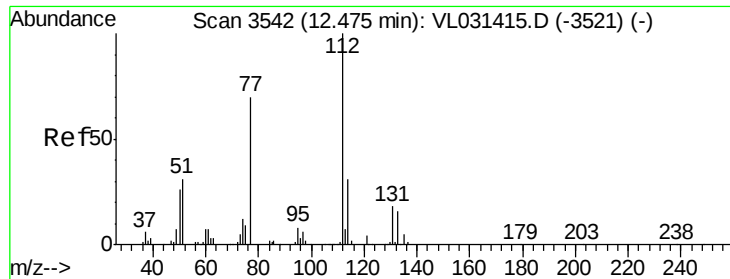
MMDadoda
1/24/2018 5:10:21 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.14 ppbv m
RT: 12.44 min Scan# 3531
Delta R.T. -0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

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





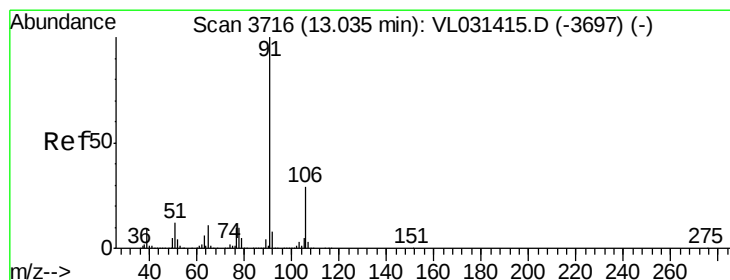
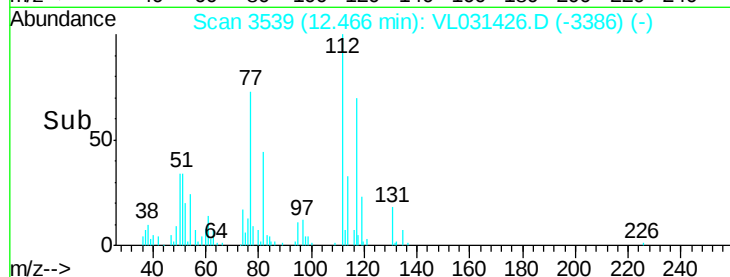
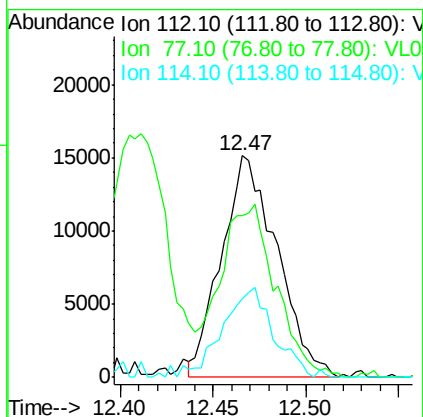
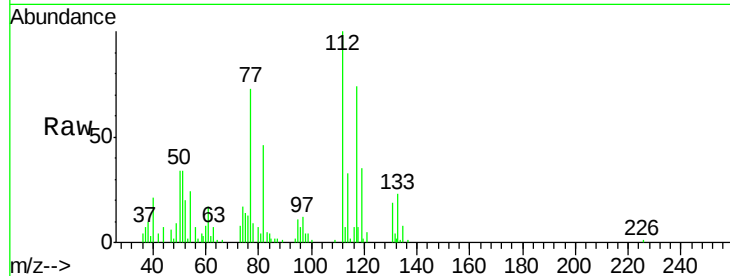
#57
Chlorobenzene
Concen: 0.13 ppbv
RT: 12.47 min Scan# 3539
Delta R.T. -0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.1	56.0	84.0
114	35.4	29.1	35.5

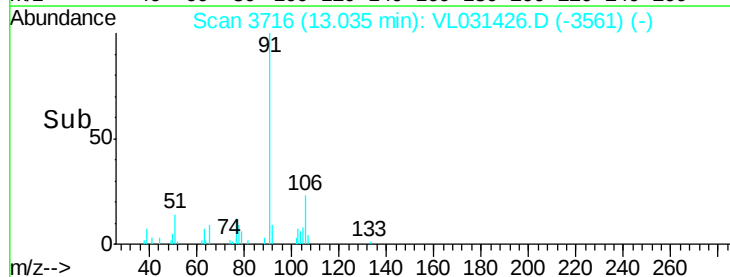
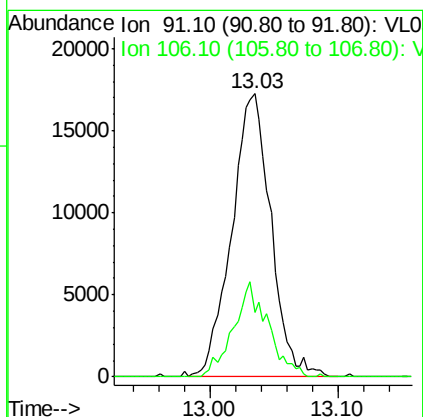
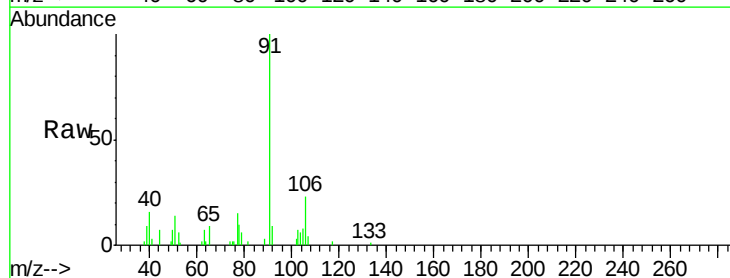
Manual Integrations
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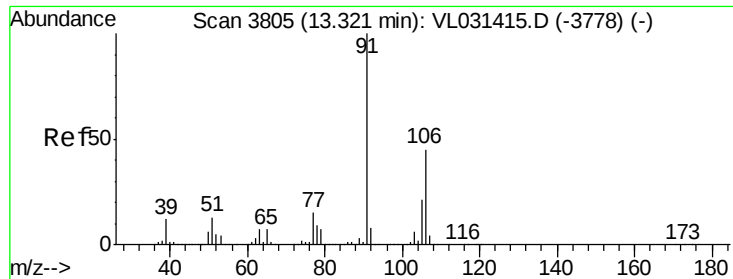
MMDadoda
1/24/2018 5:10:21 PM



#58
Ethyl Benzene
Concen: 0.09 ppbv m
RT: 13.03 min Scan# 3716
Delta R.T. -0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
91	100		
106	22.8	23.8	35.6#





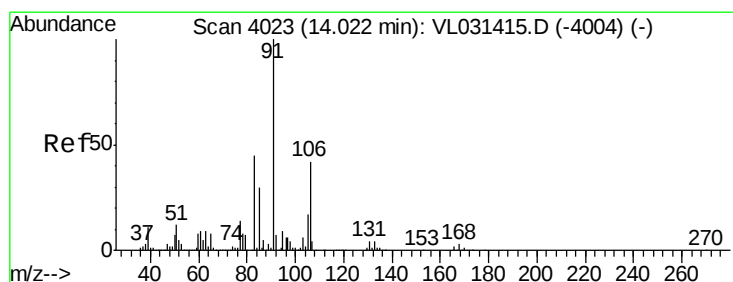
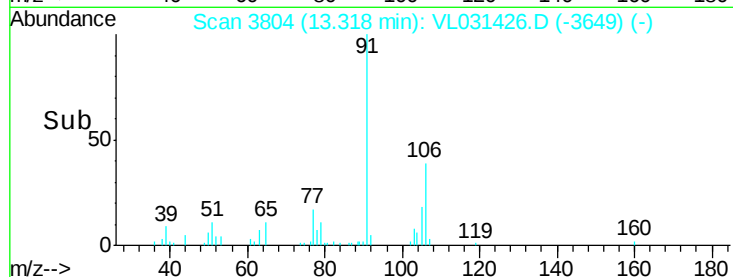
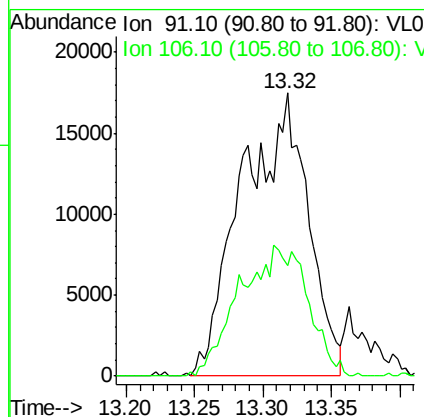
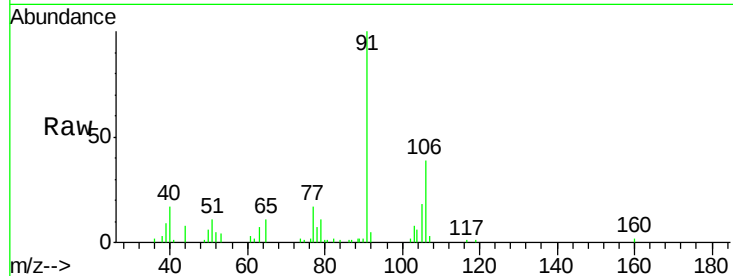
#59
m/p-Xylene
Concen: 0.17 ppbv m
RT: 13.32 min Scan# 3804
Delta R.T. -0.00 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion: 91 Resp: 58622
Ion Ratio Lower Upper
91 100
106 47.7 35.6 53.4

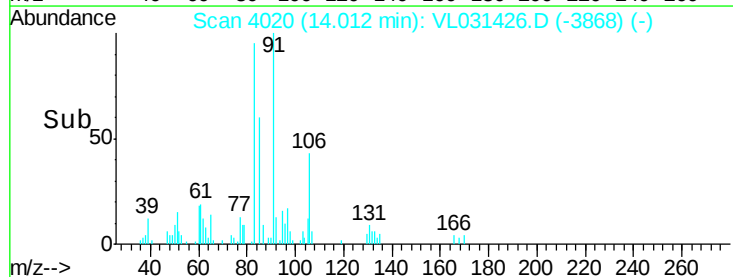
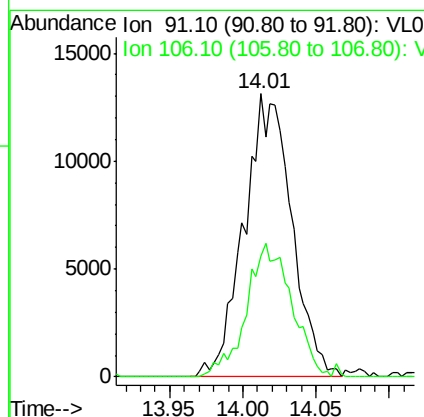
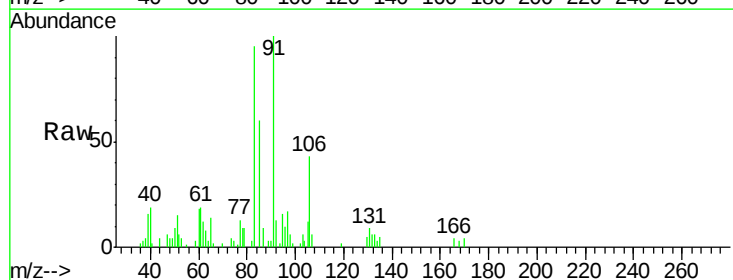
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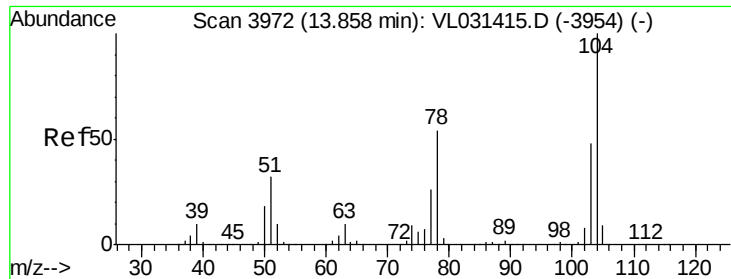
MMDadoda
1/24/2018 5:10:21 PM



#60
o-Xylene
Concen: 0.09 ppbv m
RT: 14.01 min Scan# 4020
Delta R.T. -0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion: 91 Resp: 29442
Ion Ratio Lower Upper
91 100
106 45.2 21.3 64.0





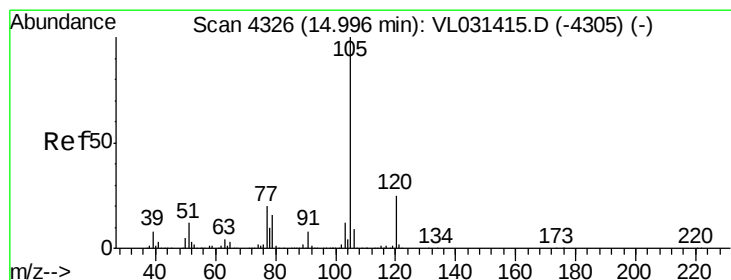
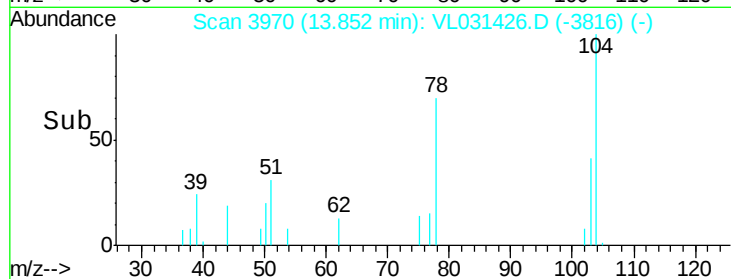
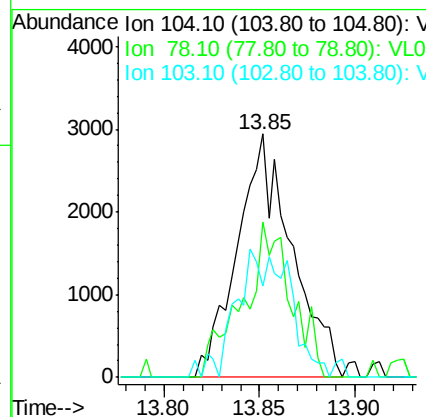
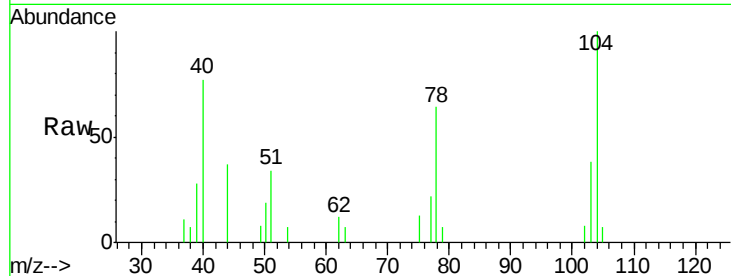
#61
Stvrene
Concen: 0.08 ppbv m
RT: 13.85 min Scan# 3970
Delta R.T. -0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.8	45.4	68.0
103	53.1	38.6	57.8

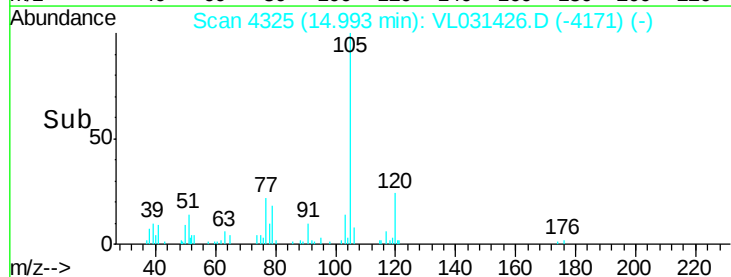
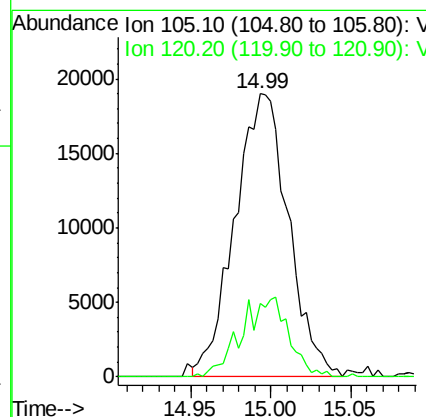
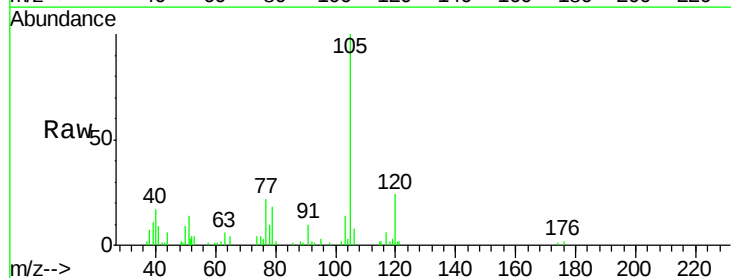
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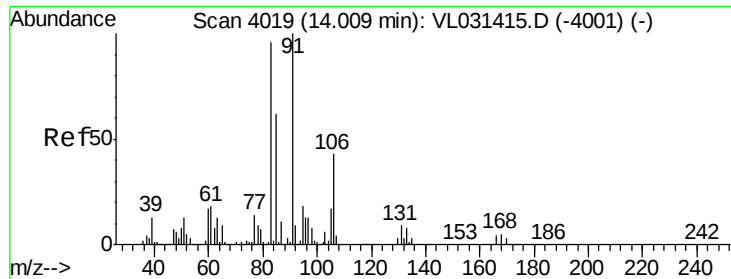
MMDadoda
1/24/2018 5:10:21 PM



#62
Isopropylbenzene
Concen: 0.10 ppbv
RT: 14.99 min Scan# 4325
Delta R.T. -0.01 min
Lab File: VL031426.D
Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.12 ppbv m

RT: 14.01 min Scan# 4020

Delta R.T. 0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

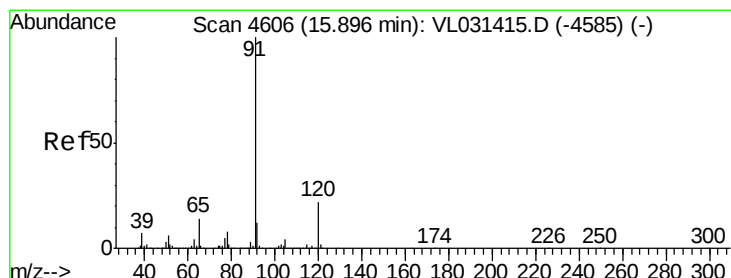
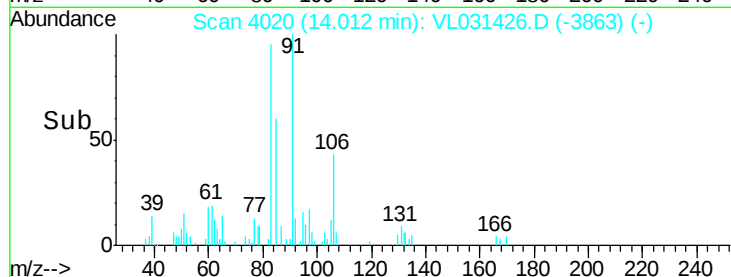
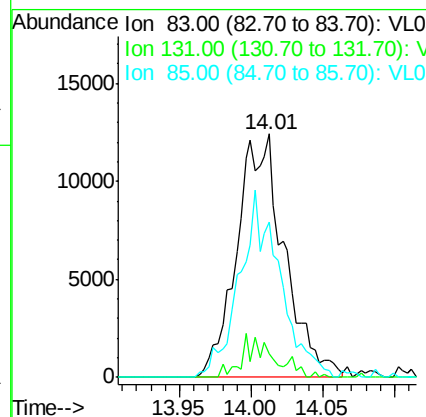
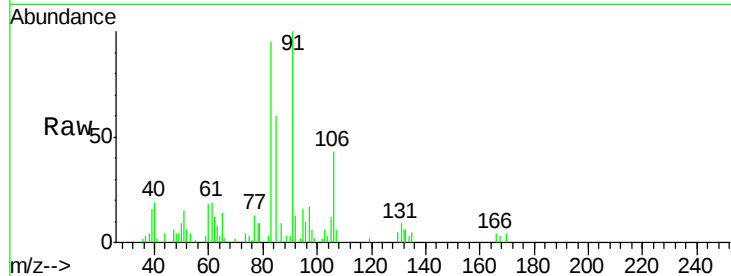
ClientSampleId :

MDL-AIR-1DL

Tot Ion	83	Resp	28521
Ion	Ratio	Lower	Upper
83	100		
131	11.3	4.8	14.3
85	65.5	32.4	97.0

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#64

n-propylbenzene

Concen: 0.09 ppbv m

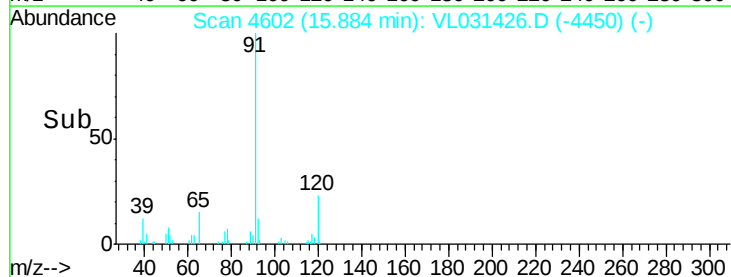
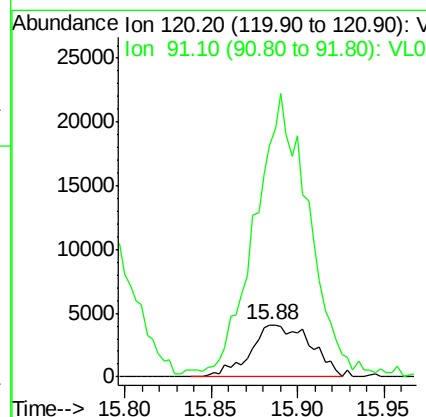
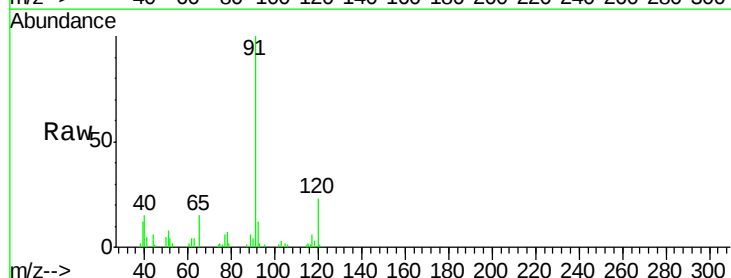
RT: 15.88 min Scan# 4602

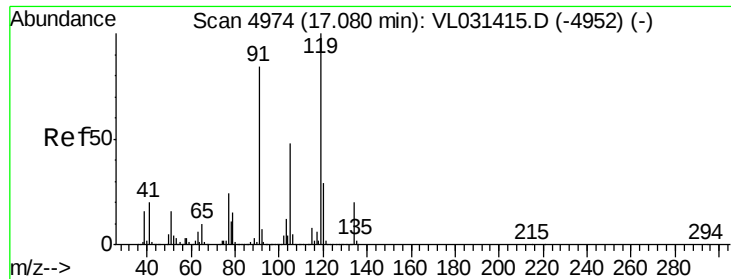
Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion	120	Resp	9827
Ion	Ratio	Lower	Upper
120	100		
91	508.3	389.8	584.6





#65

tert-Butylbenzene

Concen: 0.08 ppbv m

RT: 17.08 min Scan# 4975

Delta R.T. 0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

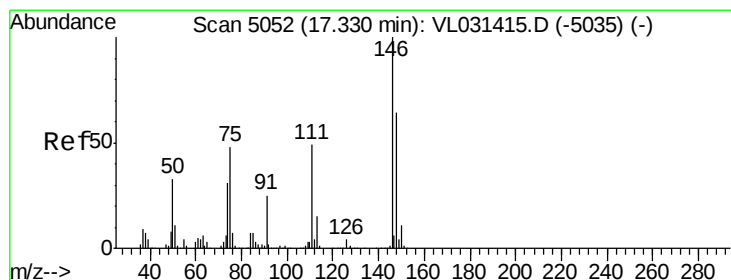
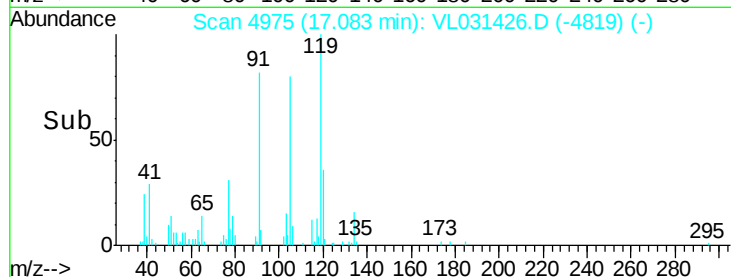
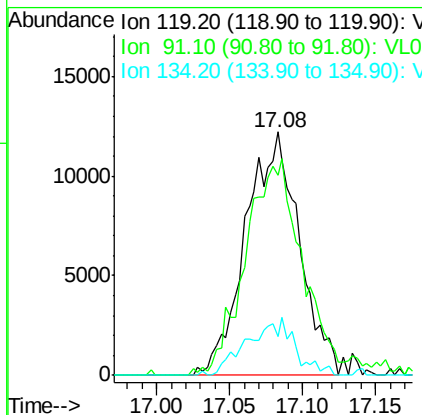
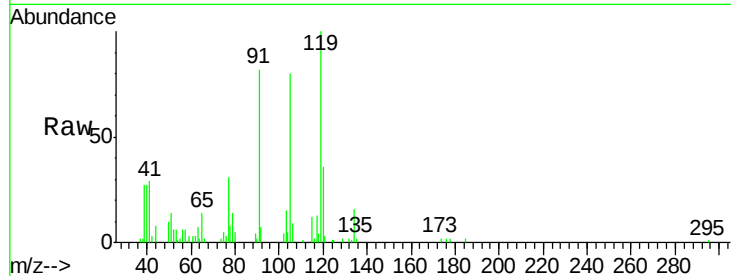
ClientSampleId :

MDL-AIR-1DL

Tot Ion:	119	Resp:	31030
Ion Ratio	Lower	Upper	
119	100		
91	0.0	69.0	103.6#
134	0.0	15.7	23.5#

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.11 ppbv m

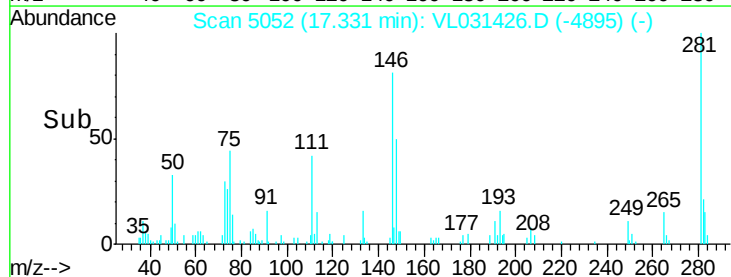
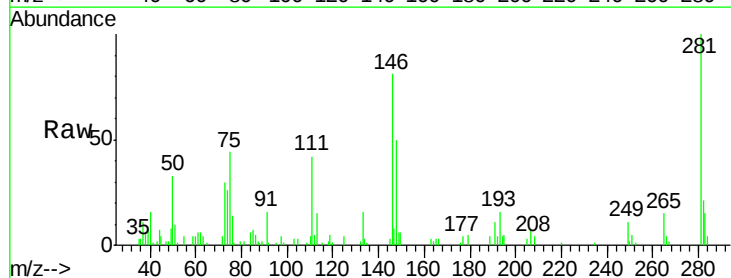
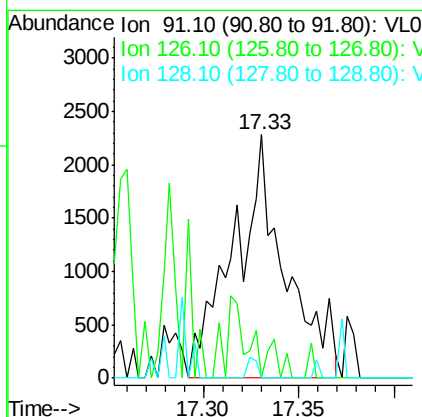
RT: 17.33 min Scan# 5052

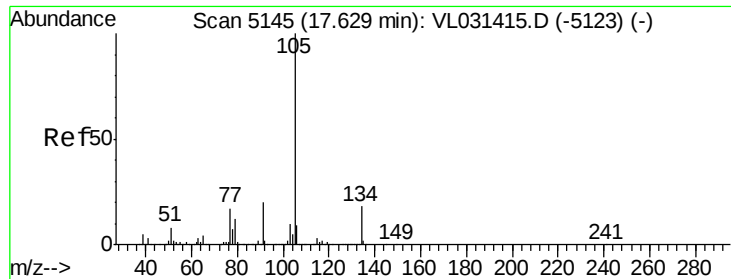
Delta R.T. 0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion:	91	Resp:	4318
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.8	20.8#
128	0.0	4.6	6.8#





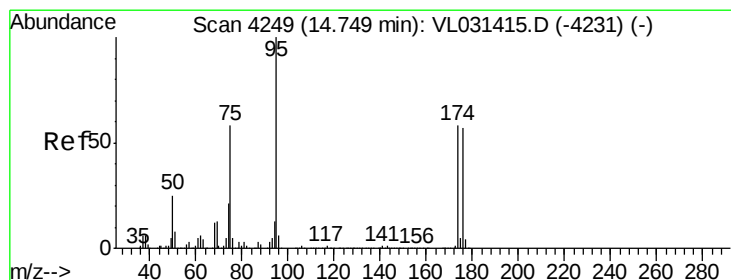
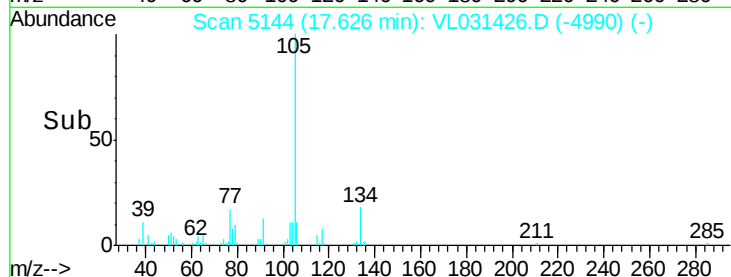
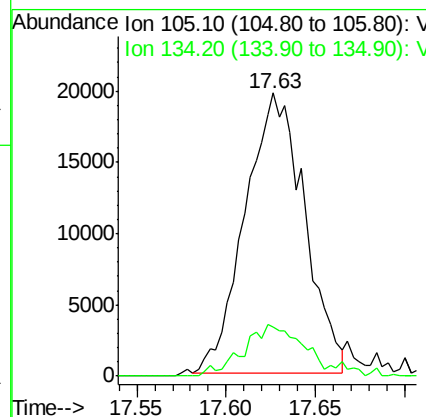
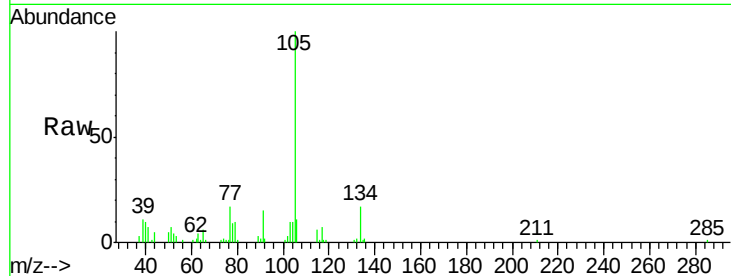
#67
 sec-Butylbenzene
 Concen: 0.09 ppbv
 RT: 17.63 min Scan# 5144
 Delta R.T. -0.01 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.0	14.5	21.7

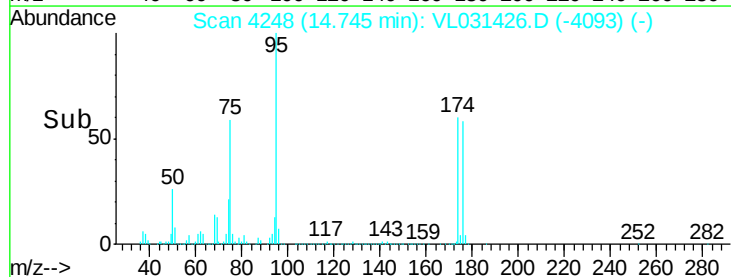
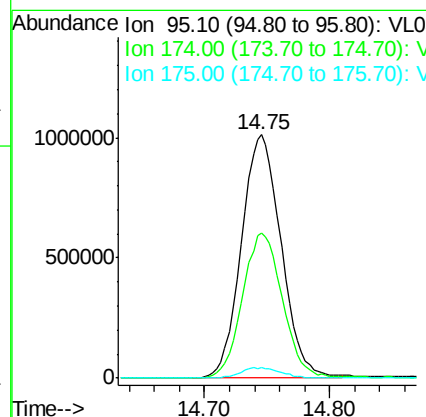
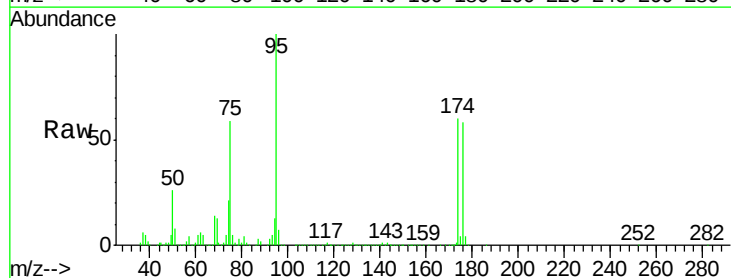
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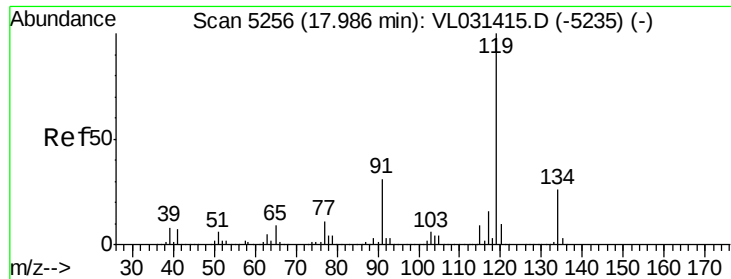
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.19 ppbv
 RT: 14.75 min Scan# 4248
 Delta R.T. -0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	61.2	48.2	72.4
175	4.4	3.6	5.4





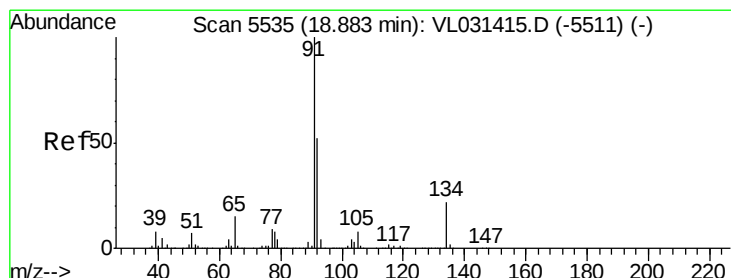
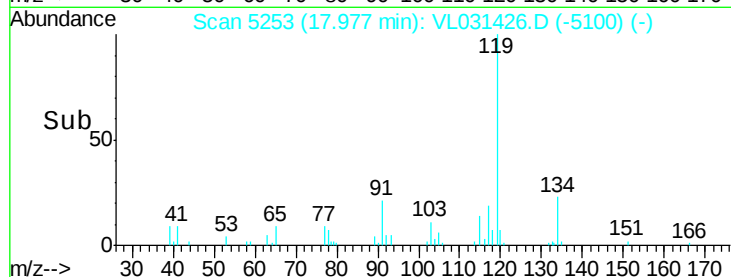
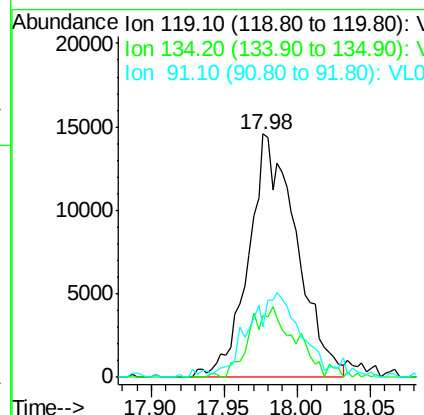
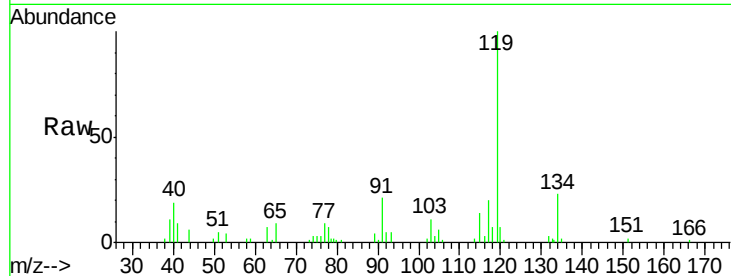
#69
 p-Isopropyltoluene
 Concen: 0.08 ppbv m
 RT: 17.98 min Scan# 5253
 Delta R.T. -0.01 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

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

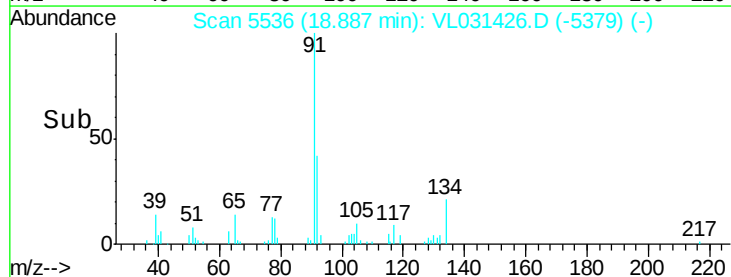
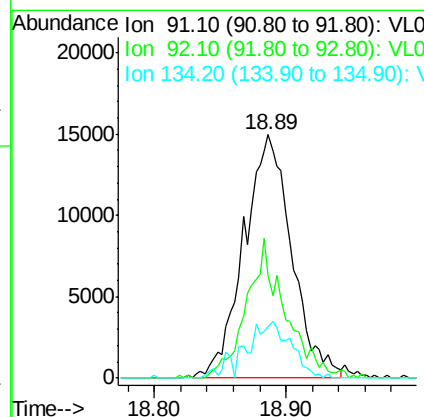
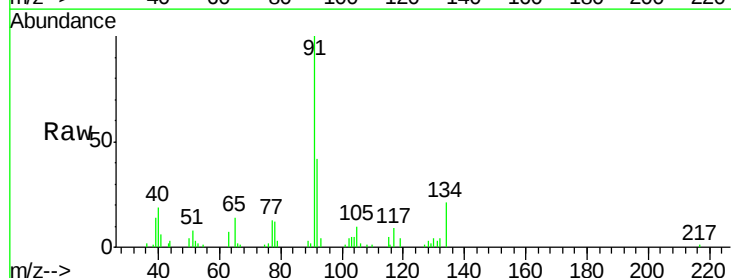
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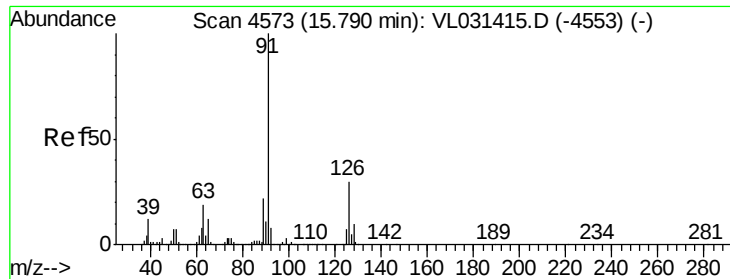
MMDadoda
 1/24/2018 5:10:21 PM



#70
 n-Butylbenzene
 Concen: 0.09 ppbv m
 RT: 18.89 min Scan# 5536
 Delta R.T. 0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

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





#71

2-Chlorotoluene

Concen: 0.10 ppbv m

RT: 15.78 min Scan# 4571

Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-1DL

Tot Ion: 91 Resp: 31119

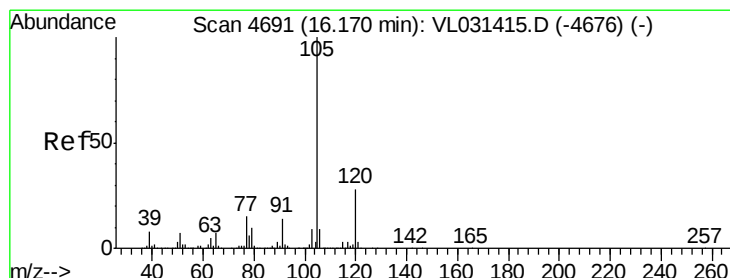
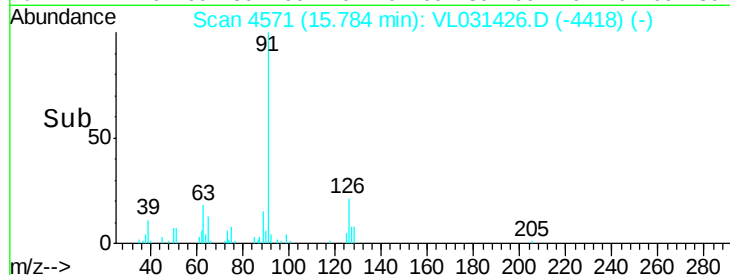
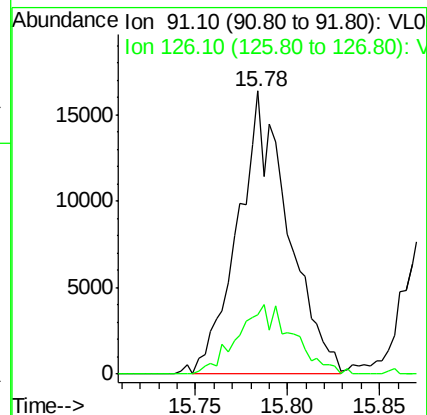
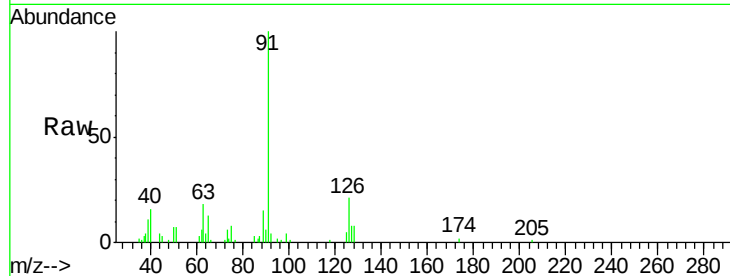
Ion Ratio Lower Upper

91 100

126 0.0 11.7 46.9#

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#72

4-Ethyltoluene

Concen: 0.08 ppbv m

RT: 16.16 min Scan# 4689

Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion: 105 Resp: 29310

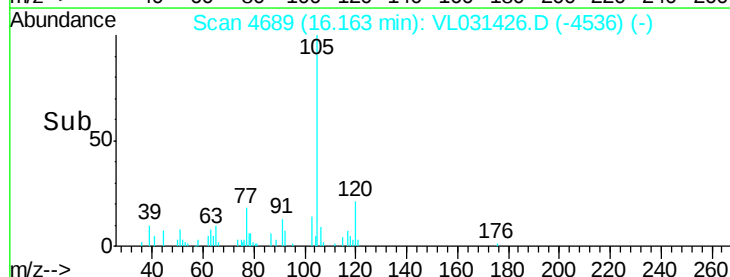
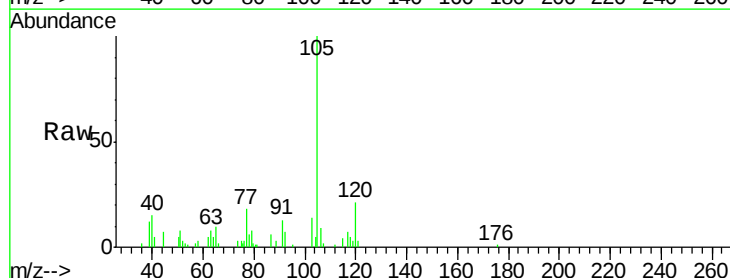
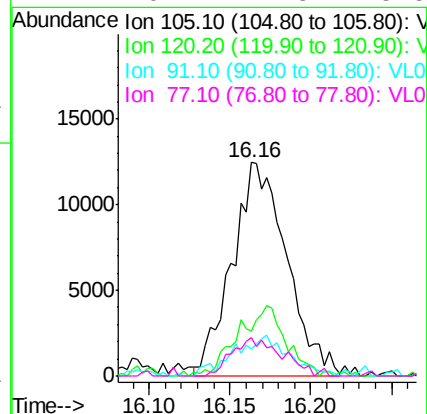
Ion Ratio Lower Upper

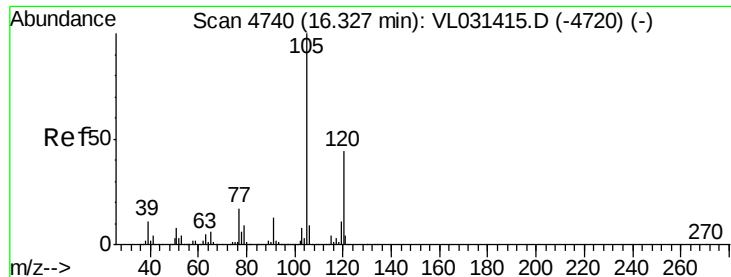
105 100

120 0.0 23.0 34.6#

91 0.0 11.0 16.4#

77 16.7 12.3 18.5





#73

1,3,5-Trimethylbenzene

Concen: 0.09 ppbv m

RT: 16.33 min Scan# 4740

Delta R.T. 0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-1DL

Tot Ion:105 Resp: 28830

Ion Ratio Lower Upper

105 100

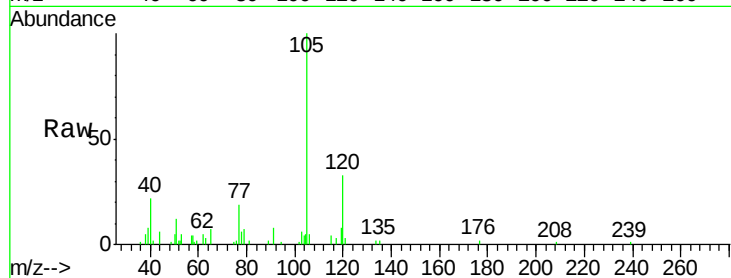
120 33.1 35.8 53.6#

Manual Integrations

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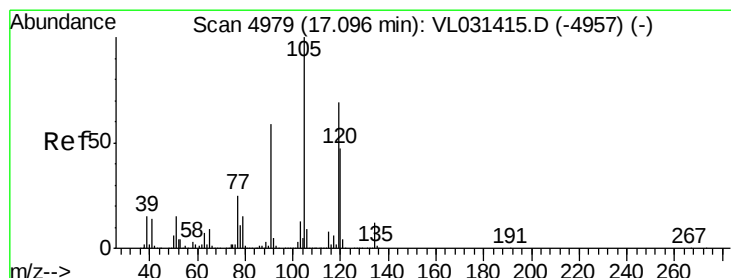
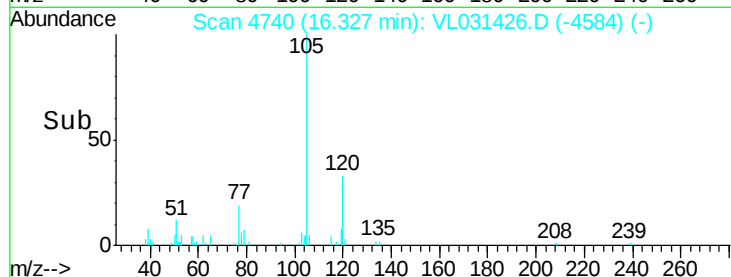
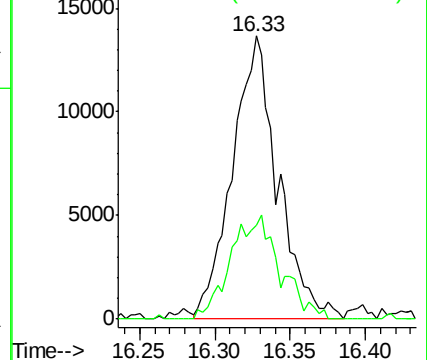
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.09 ppbv

RT: 17.09 min Scan# 4978

Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion:105 Resp: 30730

Ion Ratio Lower Upper

105 100

120 38.6 37.0 55.6

91 50.5 35.1 52.7

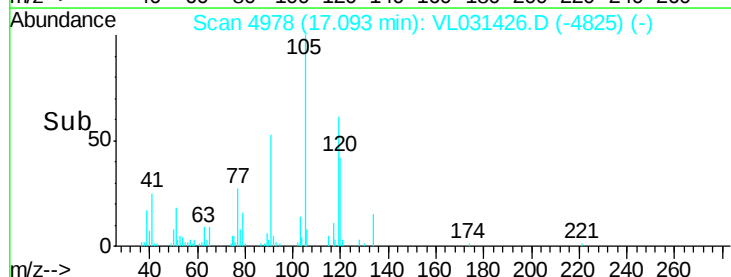
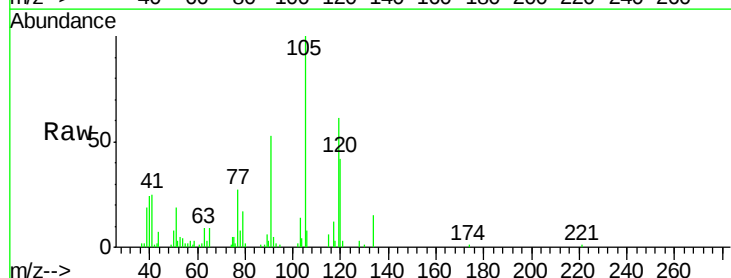
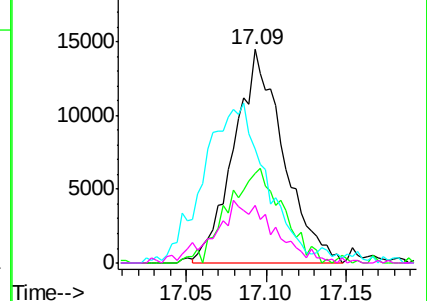
77 25.0 17.9 26.9

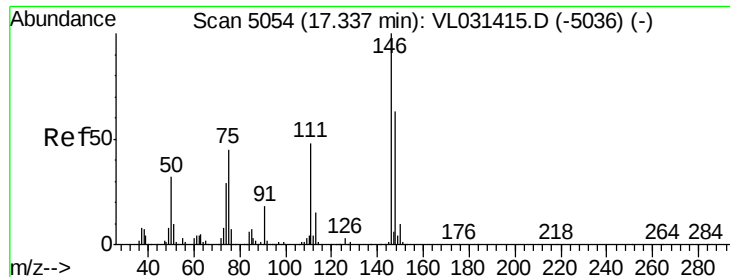
Abundance Ion 105.10 (104.80 to 105.80): V

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# 5054

Delta R.T. -0.00 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

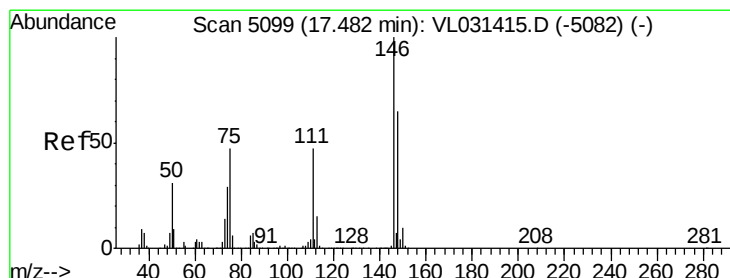
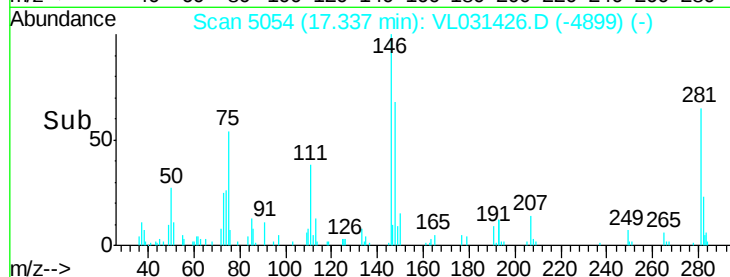
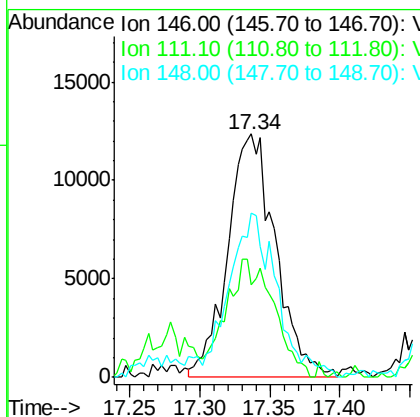
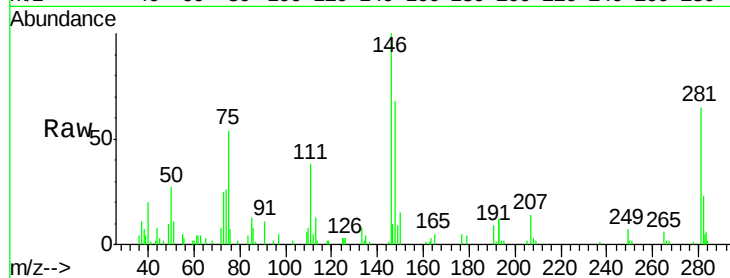
ClientSampleId :

MDL-AIR-1DL

Tot Ion:	146	Resp:	29232
Ion Ratio	Lower	Upper	
146	100		
111	53.8	24.2	72.6
148	70.2	32.1	96.3

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#76

1,4-Dichlorobenzene

Concen: 0.13 ppbv m

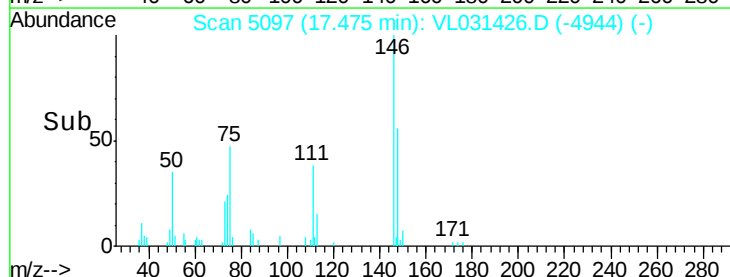
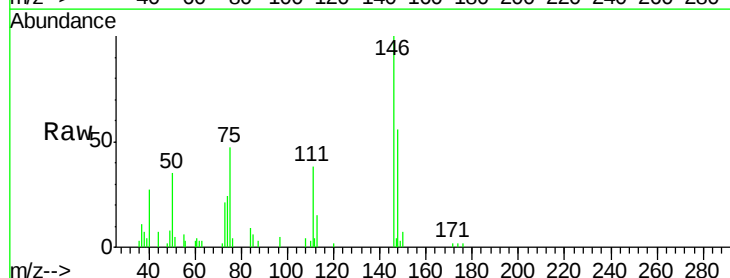
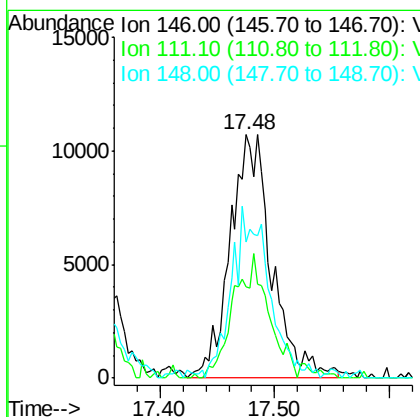
RT: 17.48 min Scan# 5097

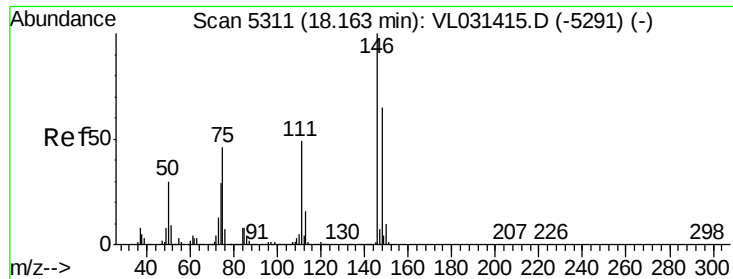
Delta R.T. -0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Tgt Ion:	146	Resp:	26748
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.3	69.9#
148	65.2	32.4	97.2





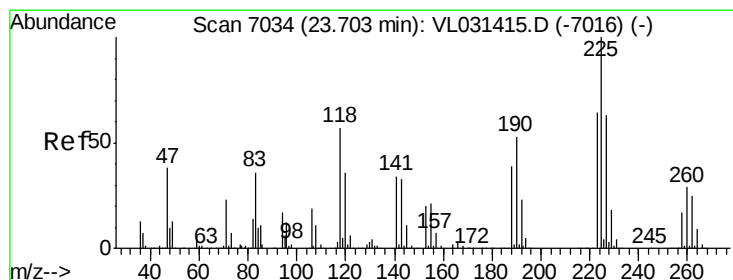
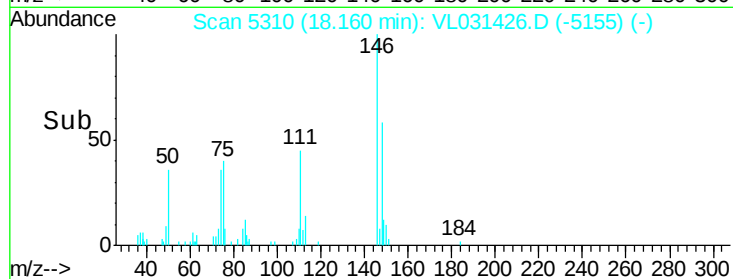
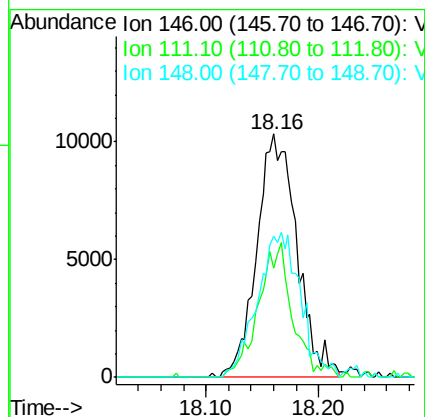
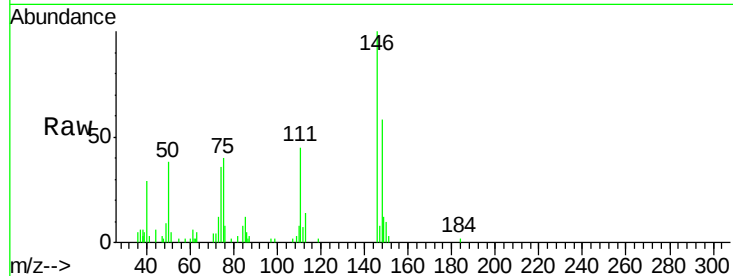
#77
 1,2-Dichlorobenzene
 Concen: 0.12 ppbv m
 RT: 18.16 min Scan# 5310
 Delta R.T. -0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

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

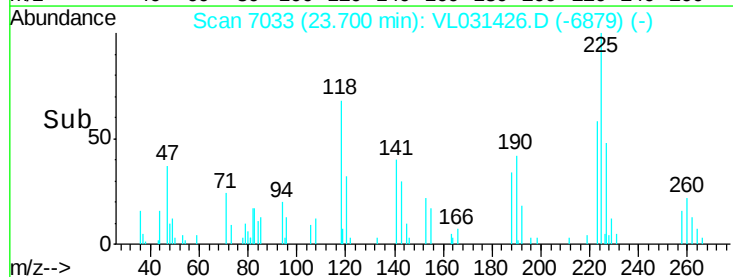
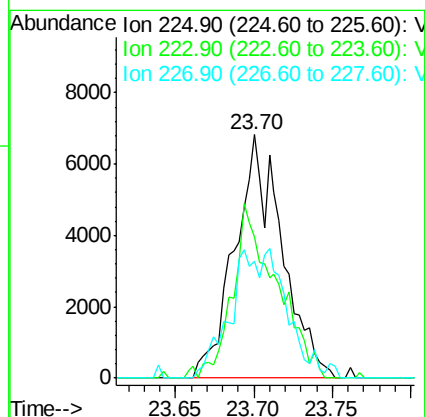
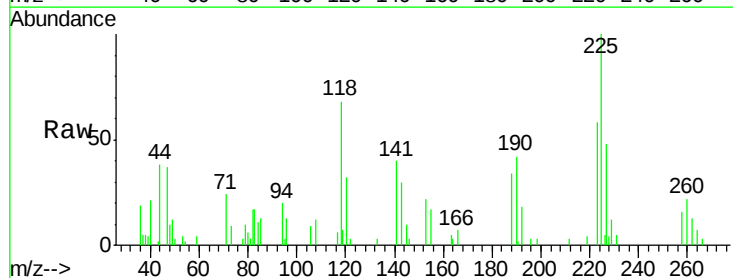
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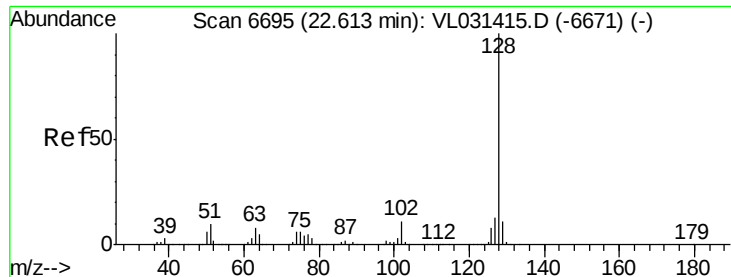
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.19 ppbv m
 RT: 23.70 min Scan# 7033
 Delta R.T. -0.01 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.9	51.3	76.9
227	0.0	50.7	76.1#





#79

Naphthalene

Concen: 0.08 ppbv m

RT: 22.62 min Scan# 6698

Delta R.T. 0.01 min

Lab File: VL031426.D

Acq: 22 Jan 2018 21:51

Instrument :

MSVOA_L

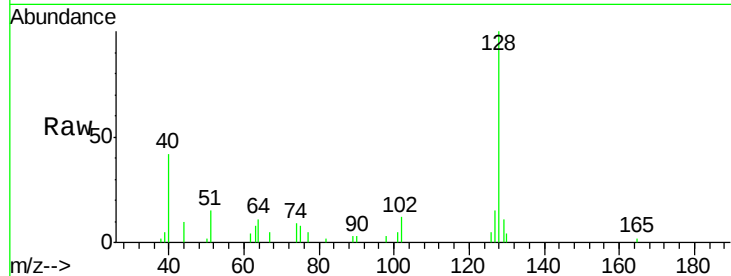
ClientSampleId :

MDL-AIR-1DL

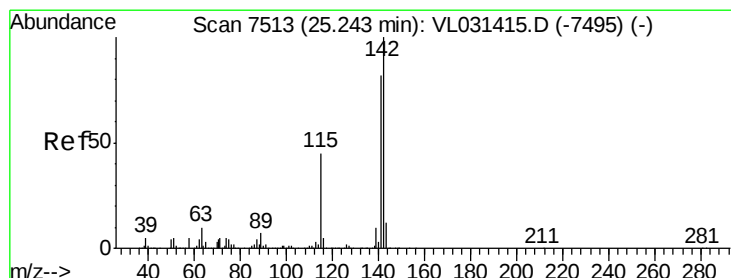
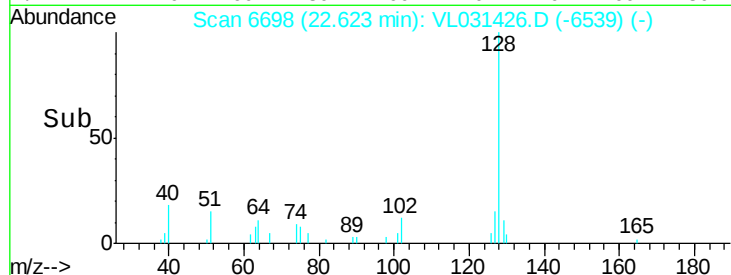
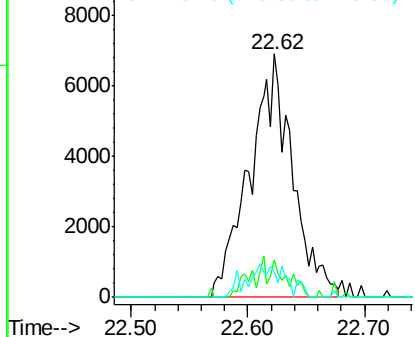
Tot Ion:	128	Resp:	17614
Ion Ratio	Lower	Upper	
128	100		
127	15.2	10.6	16.0
129	10.6	9.2	13.8

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.08 ppbv

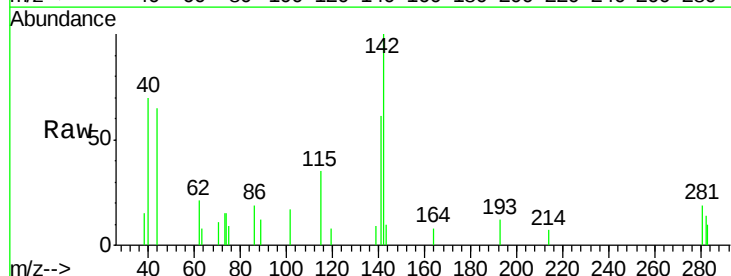
RT: 25.25 min Scan# 7514

Delta R.T. 0.00 min

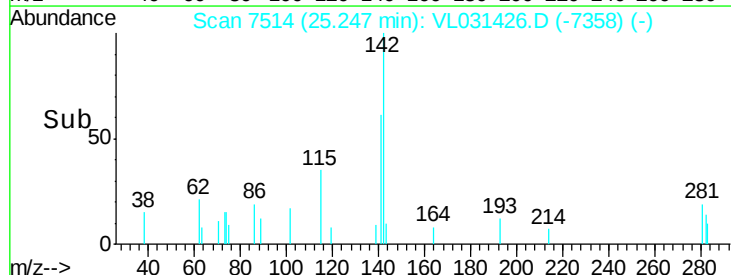
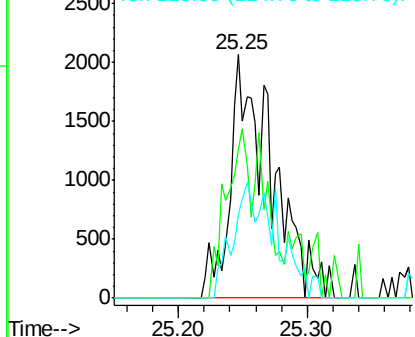
Lab File: VL031426.D

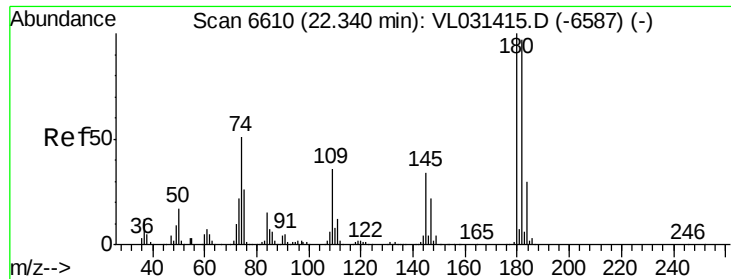
Acq: 22 Jan 2018 21:51

Tgt Ion:	142	Resp:	4738
Ion Ratio	Lower	Upper	
142	100		
141	79.1	68.7	103.1
115	49.6	36.3	54.5



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.11 ppbv m
 RT: 22.34 min Scan# 6610
 Delta R.T. 0.00 min
 Lab File: VL031426.D
 Acq: 22 Jan 2018 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

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

Manual Integrations
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