

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031428.D
 Acq On : 22 Jan 2018 23:03
 Operator : SY/AP
 Sample : J1089-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:25 PM

Quant Time: Jan 23 10:27:39 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	1166223	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2662057	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2629637	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2154570	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.17	85	34656	0.21	ppbv	# 81
3) Chlorodifluoromethane	3.11	51	21437	0.14	ppbv	97
4) Chloromethane	3.28	50	10094m	0.15	ppbv	
5) Vinyl Chloride	3.40	62	8969	0.14	ppbv	97
6) Bromomethane	3.62	94	7150m	0.15	ppbv	
7) Chloroethane	3.72	64	4177	0.15	ppbv	# 88
8) Dichlorotetrafluoroethane	3.32	85	27768	0.15	ppbv	100
9) Propene	3.14	41	6944	0.13	ppbv	96
10) Heptane	8.40	43	15145	0.09	ppbv	95
11) Trichlorofluoromethane	4.13	101	30264	0.14	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	17947	0.13	ppbv	100
13) Ethanol	3.78	45	3799m	0.23	ppbv	
14) Bromoethene	3.90	108	6717	0.12	ppbv	93
15) Acetone	4.05	43	28493	0.18	ppbv	91
16) 1,3-Butadiene	3.47	39	9250	0.14	ppbv	86
17) tert-Butyl alcohol	4.52	59	9389m	0.12	ppbv	
18) 1,1-Dichloroethene	4.48	96	7955	0.13	ppbv	88
19) Isopropyl Alcohol	4.17	45	13296m	0.14	ppbv	
20) Methylene Chloride	4.54	84	15873	0.26	ppbv	# 96
21) Allyl Chloride	4.60	41	11349	0.12	ppbv	89
22) trans-1,2-Dichloroethene	5.10	96	8950	0.14	ppbv	# 92
23) Vinyl Acetate	5.31	43	23185m	0.12	ppbv	
24) 1,1-Dichloroethane	5.22	63	22063	0.13	ppbv	# 98
25) Ethyl Acetate	5.93	43	33352	0.12	ppbv	# 97
26) Hexane	5.92	57	15175	0.12	ppbv	94
27) Carbon Disulfide	4.75	76	19085	0.12	ppbv	# 52
28) Methyl tert-Butyl Ether	5.28	73	16569m	0.11	ppbv	
29) Chloroform	5.99	83	28232	0.13	ppbv	92
30) Cyclohexane	7.42	84	17289m	0.18	ppbv	
31) cis-1,2-Dichloroethene	5.78	61	13391	0.12	ppbv	# 81
32) 1,1,1-Trichloroethane	6.77	97	26847	0.13	ppbv	96
34) 2-Butanone	5.49	43	19137	0.11	ppbv	96
35) Carbon Tetrachloride	7.29	117	28103m	0.13	ppbv	
36) Benzene	7.16	78	26150	0.11	ppbv	# 93
37) 1,2-Dichloroethane	6.56	62	24126	0.13	ppbv	99
38) Trichloroethene	8.12	130	12771m	0.14	ppbv	
39) 1,2-Dichloropropane	7.89	63	9373	0.11	ppbv	90
40) 1,4-Dioxane	8.20	88	3991m	0.11	ppbv	
41) Tetrahydrofuran	6.33	42	9646m	0.10	ppbv	
42) Bromodichloromethane	8.07	83	28177m	0.13	ppbv	
43) Methyl Methacrylate	8.31	69	8229m	0.10	ppbv	

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031428.D
 Acq On : 22 Jan 2018 23:03
 Operator : SY/AP
 Sample : J1089-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

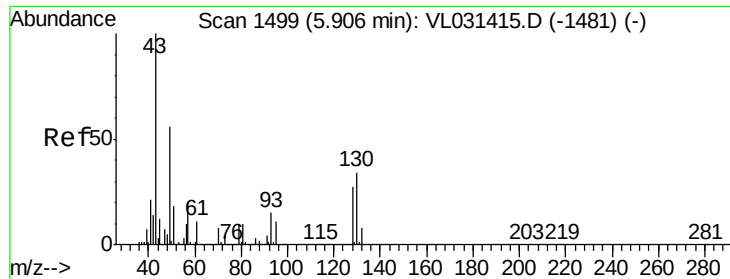
Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:25 PM

Quant Time: Jan 23 10:27:39 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	37691m	0.09	ppbv	
45) t-1,3-Dichloropropene	9.57	75	11068m	0.09	ppbv	
46) cis-1,3-Dichloropropene	8.99	75	12506	0.08	ppbv	# 84
47) 1,1,2-Trichloroethane	9.77	97	12825m	0.12	ppbv	
48) Dibromochloromethane	10.62	129	20556	0.11	ppbv	98
49) Bromoform	13.38	173	14698m	0.10	ppbv	
50) 4-Methyl-2-Pentanone	9.06	43	20909m	0.09	ppbv	
51) 2-Hexanone	10.48	43	17065m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10959m	0.12	ppbv	
53) Toluene	10.11	91	23654	0.08	ppbv	98
54) 1,2-Dibromoethane	10.93	107	17415m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.45	131	17414m	0.14	ppbv	
57) Chlorobenzene	12.47	112	30578m	0.13	ppbv	
58) Ethyl Benzene	13.03	91	35648	0.09	ppbv	97
59) m/p-Xylene	13.32	91	64209m	0.19	ppbv	
60) o-Xylene	14.02	91	28046m	0.09	ppbv	
61) Styrene	13.85	104	5505m	0.08	ppbv	
62) Isopropylbenzene	15.00	105	41162m	0.10	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.01	83	28369m	0.12	ppbv	
64) n-propylbenzene	15.89	120	8866m	0.09	ppbv	
65) tert-Butylbenzene	17.08	119	30151m	0.08	ppbv	
66) Benzyl Chloride	17.32	91	4437m	0.12	ppbv	
67) sec-Butylbenzene	17.62	105	47483	0.09	ppbv	99
69) p-Isopropyltoluene	17.98	119	32511m	0.08	ppbv	
70) n-Butylbenzene	18.88	91	36753m	0.09	ppbv	
71) 2-Chlorotoluene	15.79	91	29528	0.09	ppbv	99
72) 4-Ethyltoluene	16.17	105	28231m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	25722m	0.08	ppbv	
74) 1,2,4-Trimethylbenzene	17.09	105	29045m	0.09	ppbv	
75) 1,3-Dichlorobenzene	17.34	146	26902m	0.13	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	20962	0.10	ppbv	84
77) 1,2-Dichlorobenzene	18.16	146	22186m	0.11	ppbv	
78) Hexachloro-1,3-Butadiene	23.71	225	13281m	0.19	ppbv	
79) Naphthalene	22.61	128	16276m	0.08	ppbv	
80) Naphthalene, 2-methyl-	25.26	142	3333	0.06	ppbv	96
81) 1,2,4-Trichlorobenzene	22.33	180	11577m	0.10	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 49 Resp: 1166223

Ion Ratio Lower Upper

49 100

128 46.4 23.5 70.6

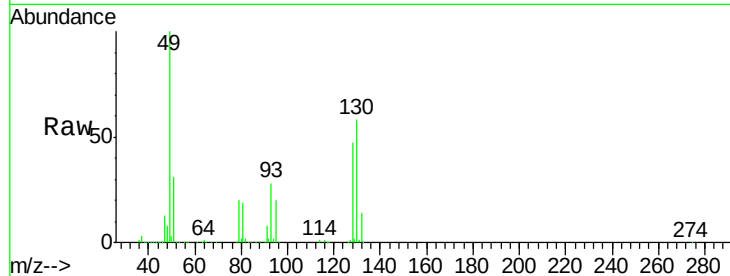
130 58.8 29.9 89.7

Manual Integrations

APPROVED

MMDadoda

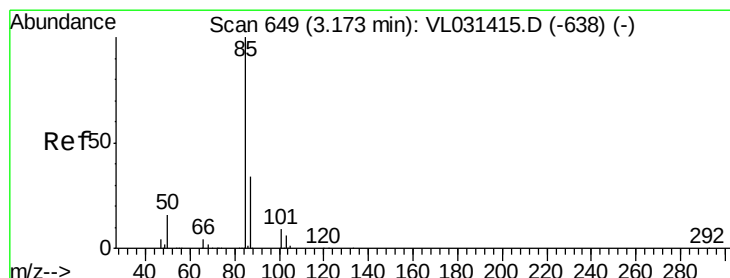
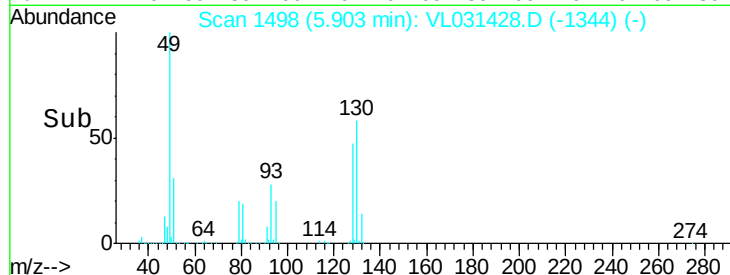
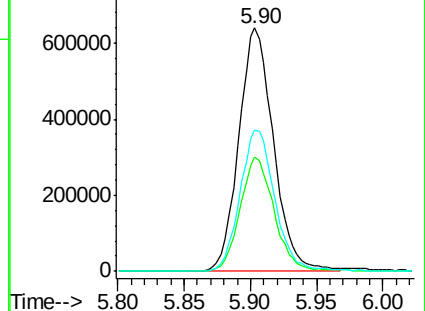
1/24/2018 5:10:25 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.21 ppbv

RT: 3.17 min Scan# 649

Delta R.T. -0.00 min

Lab File: VL031428.D

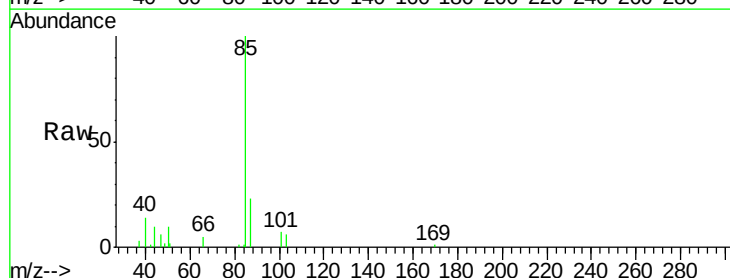
Acq: 22 Jan 2018 23:03

Tgt Ion: 85 Resp: 34656

Ion Ratio Lower Upper

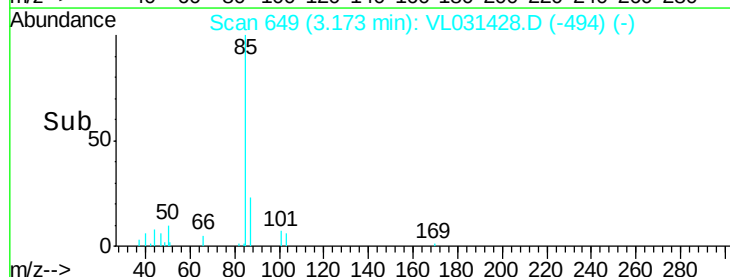
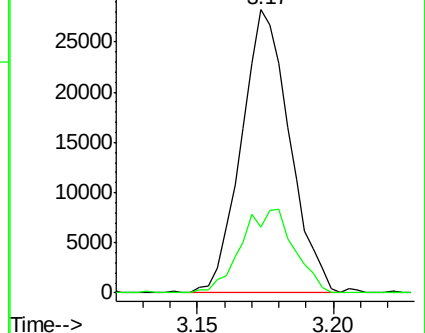
85 100

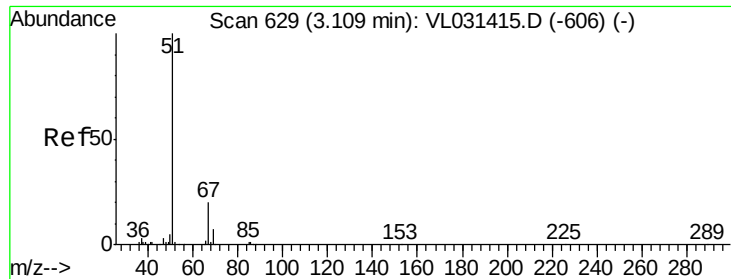
87 23.2 27.4 41.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





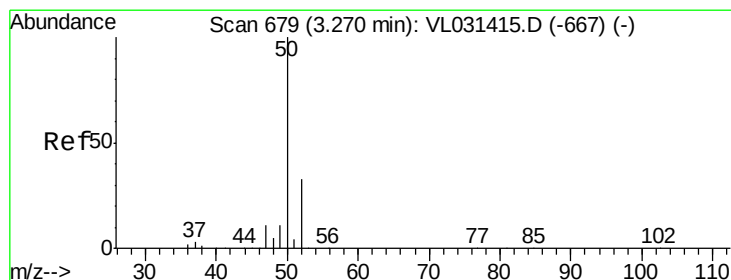
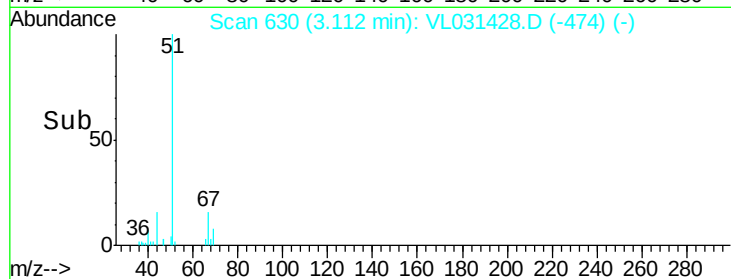
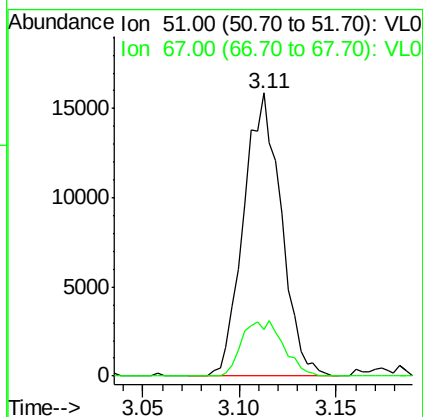
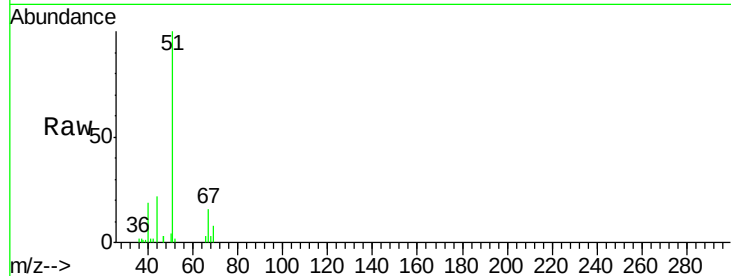
#3
Chlorodifluoromethane
Concen: 0.14 ppbv
RT: 3.11 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
51	100		
67	21.4	16.0	24.0

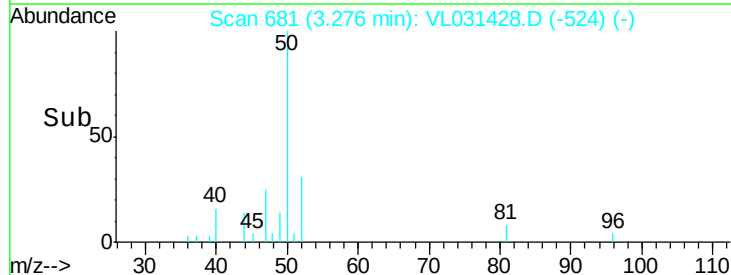
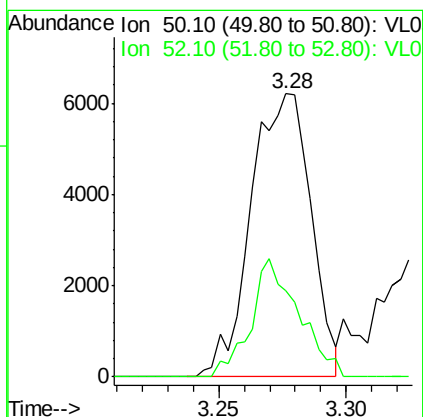
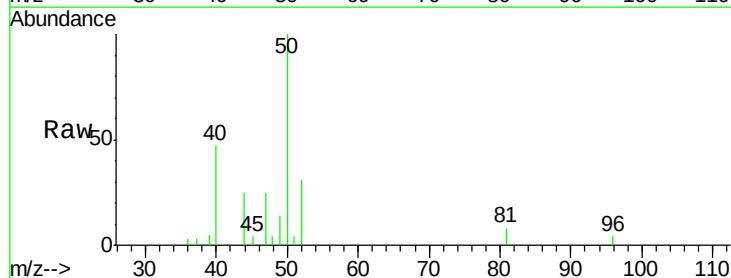
Manual Integrations
APPROVED

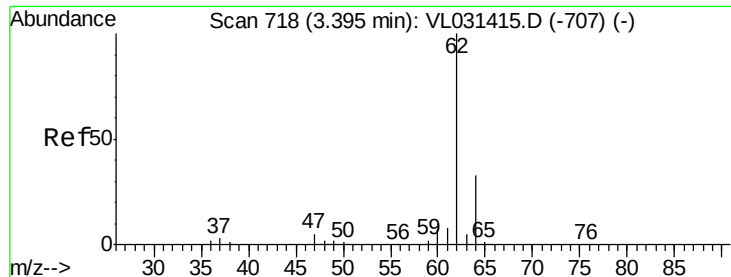
MMDadoda
1/24/2018 5:10:25 PM



#4
Chloromethane
Concen: 0.15 ppbv m
RT: 3.28 min Scan# 681
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.7	26.4	39.6





#5

Vinyl Chloride

Concen: 0.14 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-3

Tot Ion: 62 Resp: 8969

Ion Ratio Lower Upper

62 100

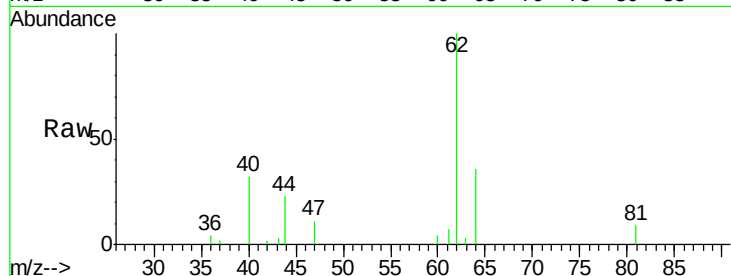
64 33.2 25.4 38.0

Manual Integrations

APPROVED

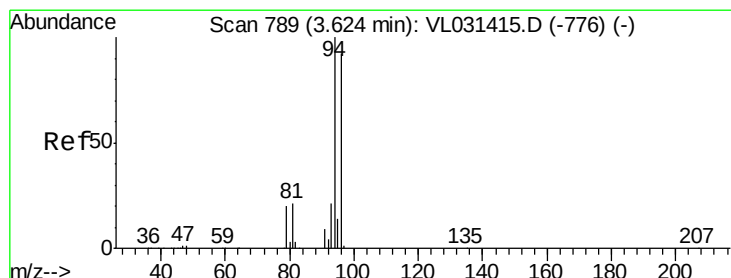
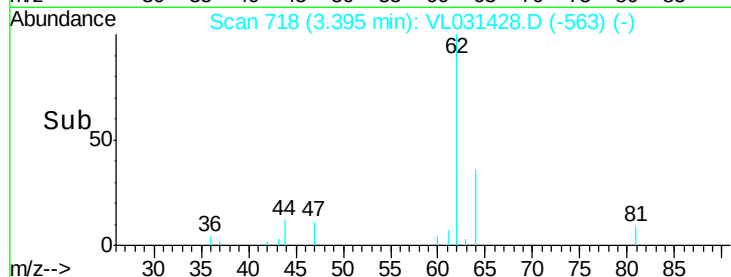
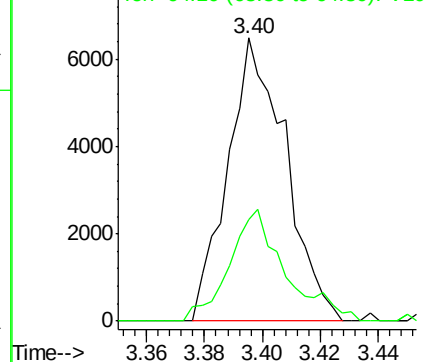
MMDadoda

1/24/2018 5:10:25 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.15 ppbv m

RT: 3.62 min Scan# 789

Delta R.T. -0.00 min

Lab File: VL031428.D

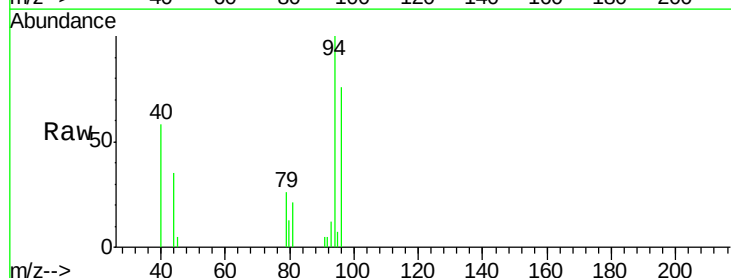
Acq: 22 Jan 2018 23:03

Tgt Ion: 94 Resp: 7150

Ion Ratio Lower Upper

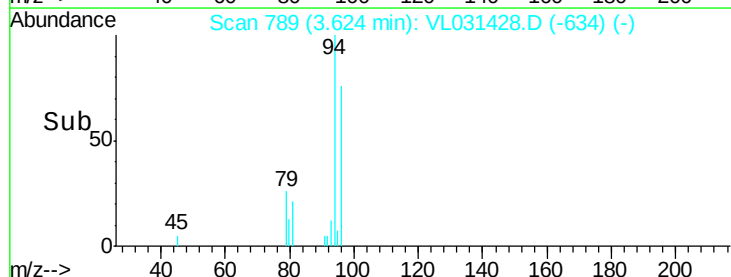
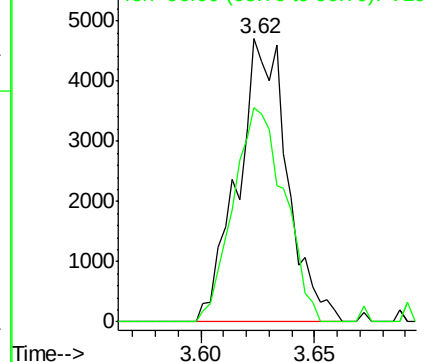
94 100

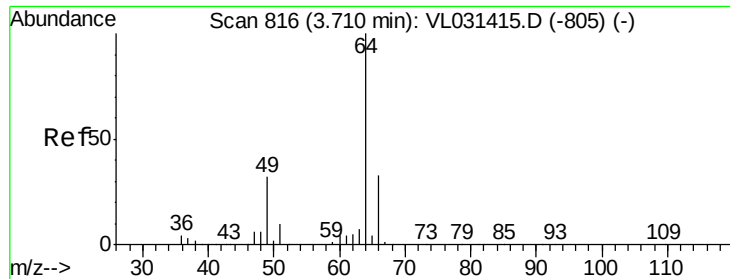
96 75.6 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.15 ppbv

RT: 3.72 min Scan# 818

Delta R.T. 0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 64 Resp: 4177

Ion Ratio Lower Upper

64 100

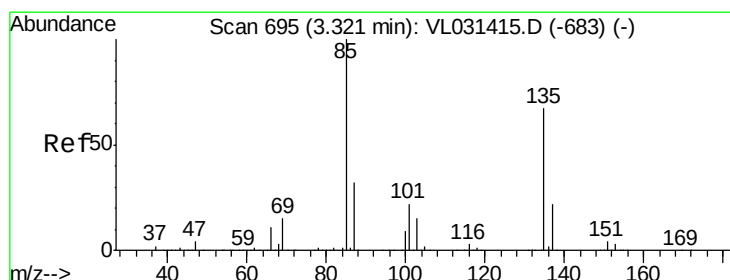
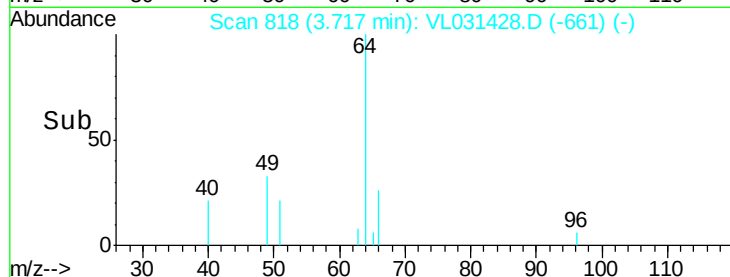
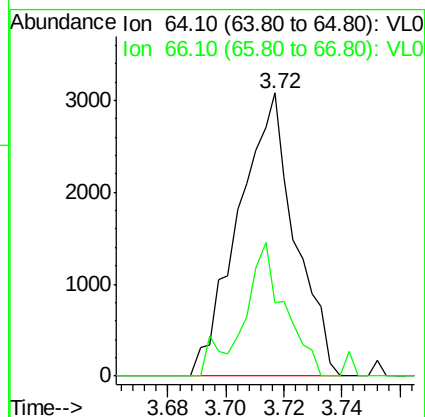
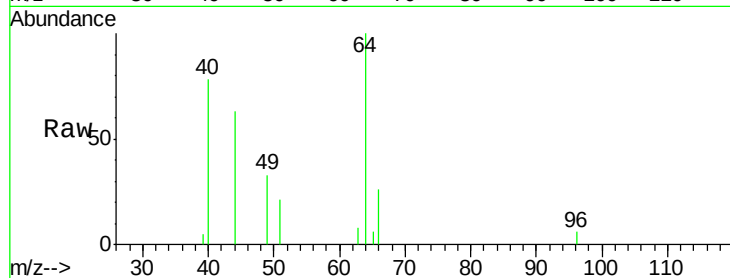
66 26.1 26.3 39.5#

Manual Integrations

APPROVED

MMDadoda

1/24/2018 5:10:25 PM



#8

Dichlorotetrafluoroethane

Concen: 0.15 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031428.D

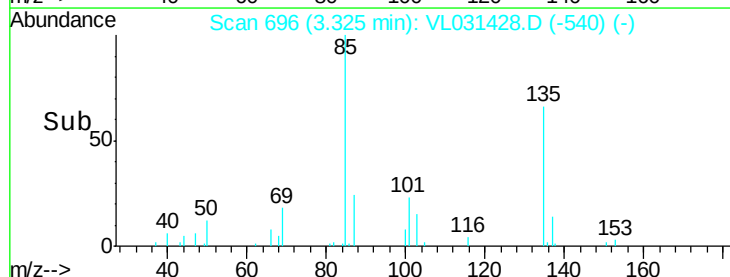
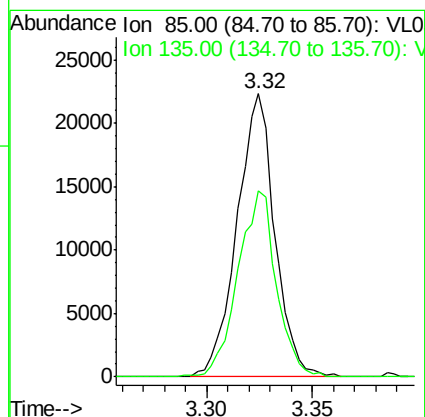
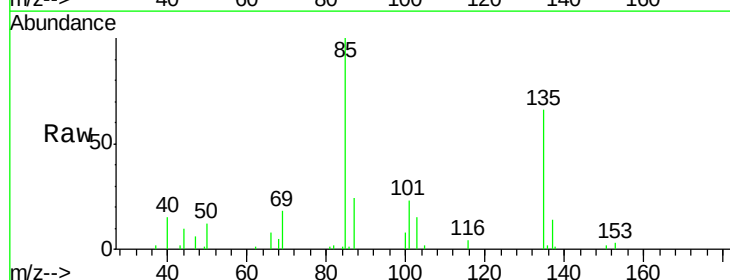
Acq: 22 Jan 2018 23:03

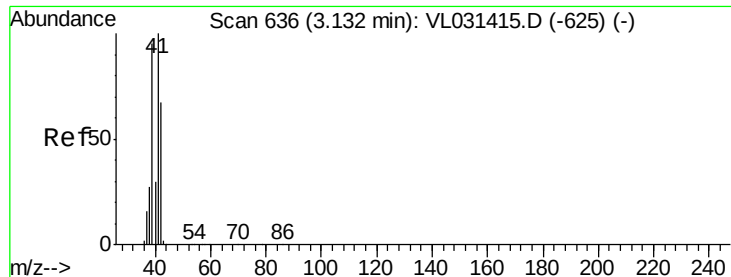
Tgt Ion: 85 Resp: 27768

Ion Ratio Lower Upper

85 100

135 66.6 53.3 79.9





#9

Propene

Concen: 0.13 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 41 Resp: 6944

Ion Ratio Lower Upper

41 100

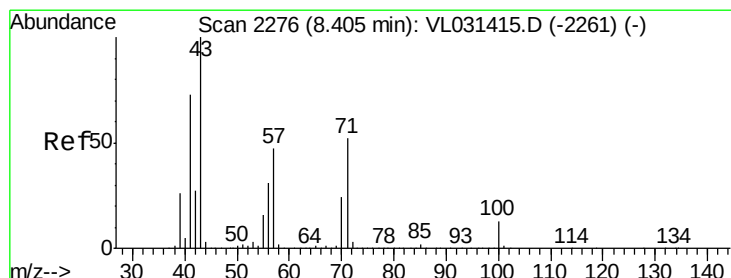
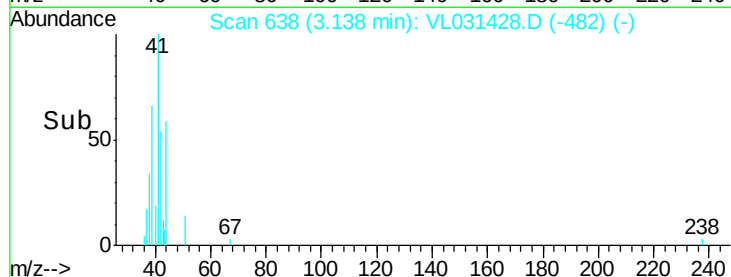
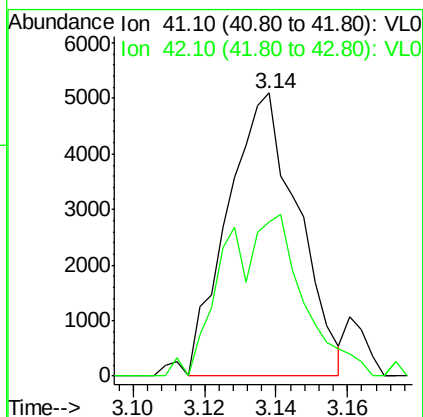
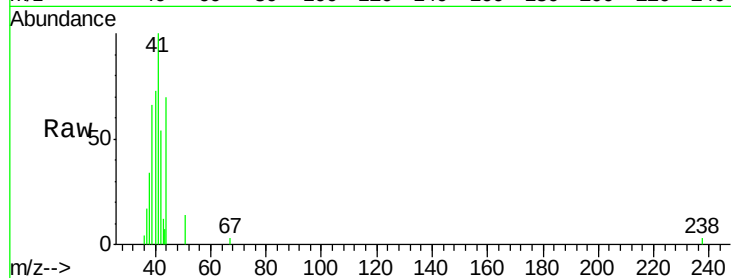
42 65.4 54.6 82.0

Manual Integrations

APPROVED

MMDadoda

1/24/2018 5:10:25 PM



#10

Heptane

Concen: 0.09 ppbv

RT: 8.40 min Scan# 2275

Delta R.T. -0.01 min

Lab File: VL031428.D

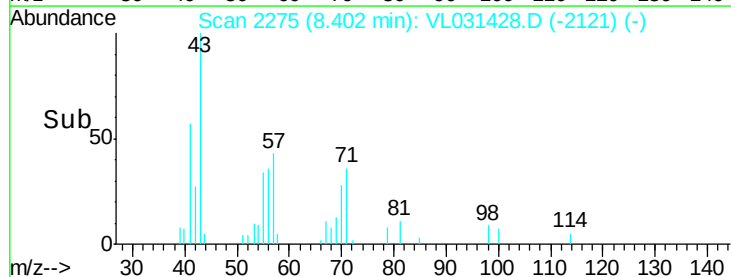
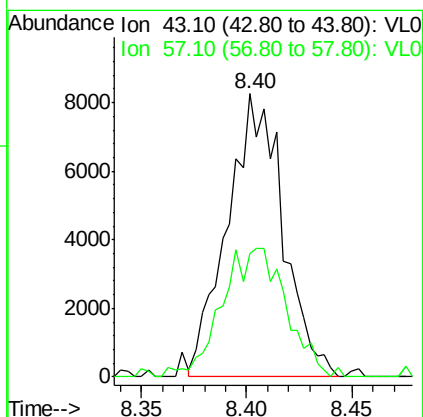
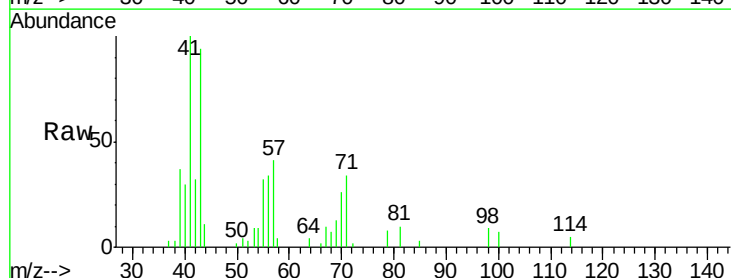
Acq: 22 Jan 2018 23:03

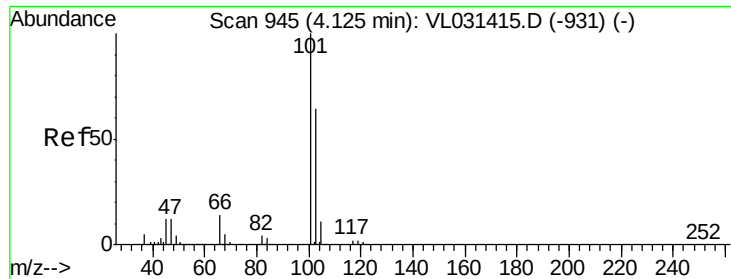
Tgt Ion: 43 Resp: 15145

Ion Ratio Lower Upper

43 100

57 53.0 39.7 59.5





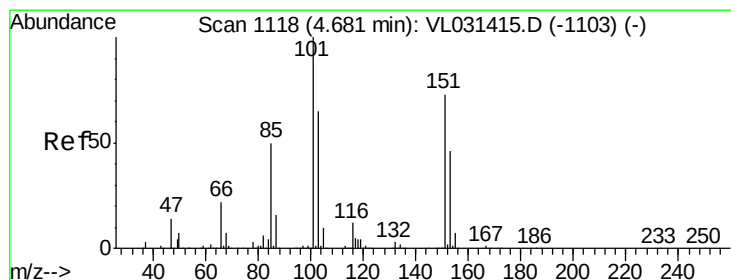
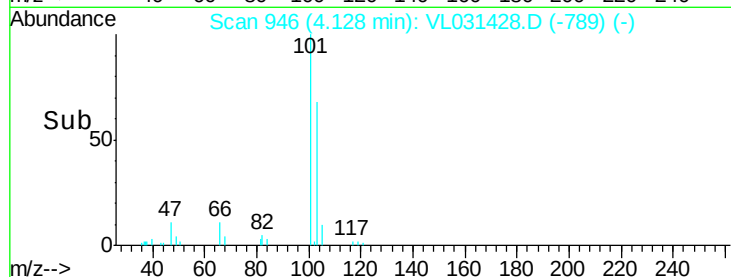
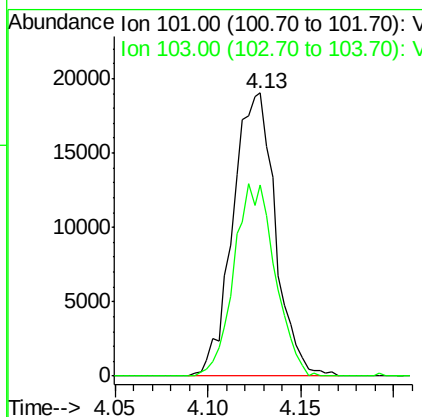
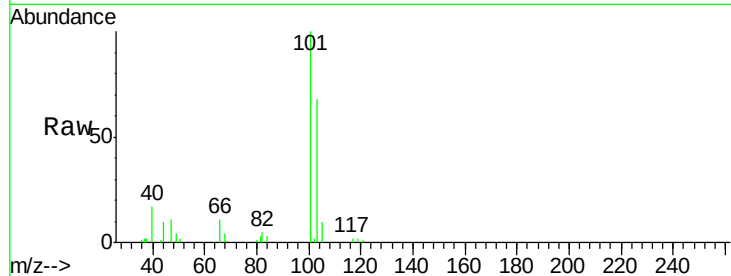
#11
 Trichlorofluoromethane
 Concen: 0.14 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.6	53.1	79.7

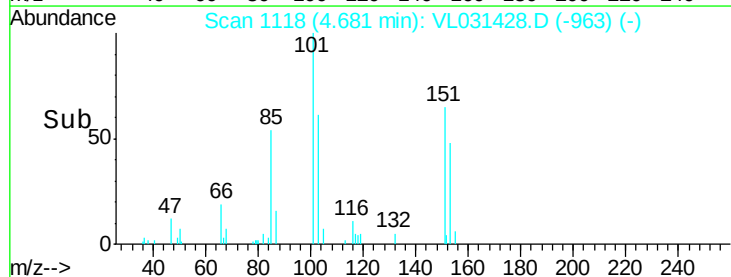
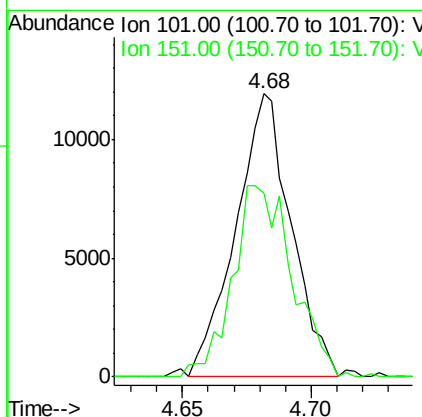
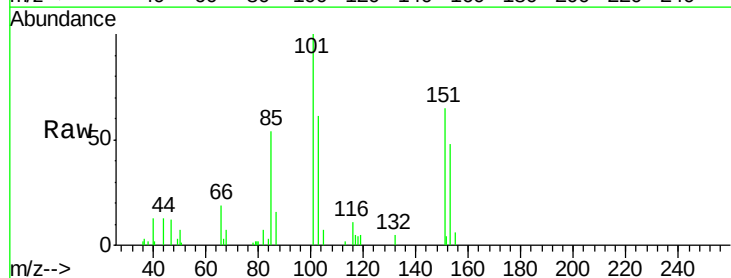
Manual Integrations
 APPROVED

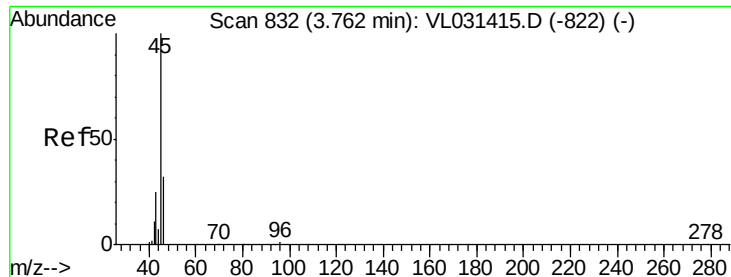
MMDadoda
 1/24/2018 5:10:25 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.13 ppbv
 RT: 4.68 min Scan# 1118
 Delta R.T. -0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
101	100		
151	72.3	58.1	87.1





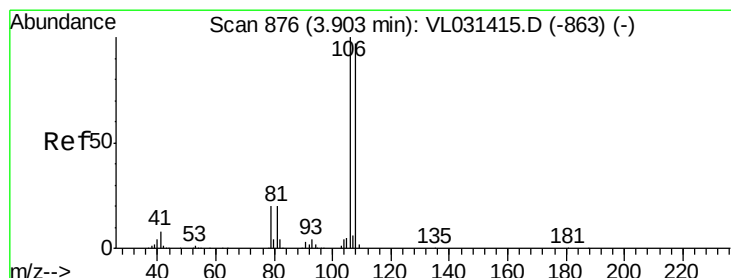
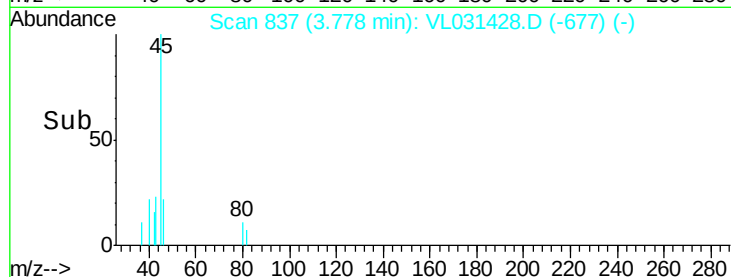
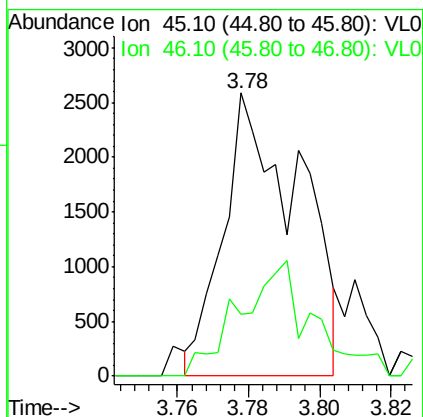
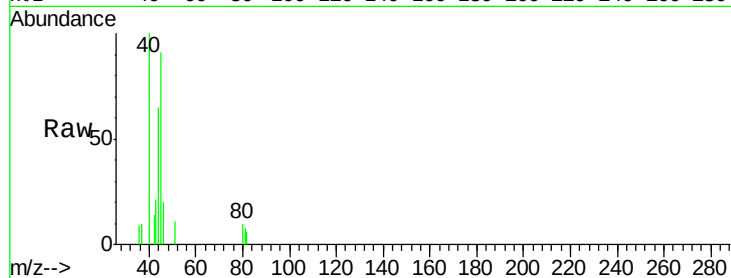
#13
Ethanol
Concen: 0.23 ppbv m
RT: 3.78 min Scan# 837
Delta R.T. 0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-3

Tot Ion: 45 Resp: 3799
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.5#

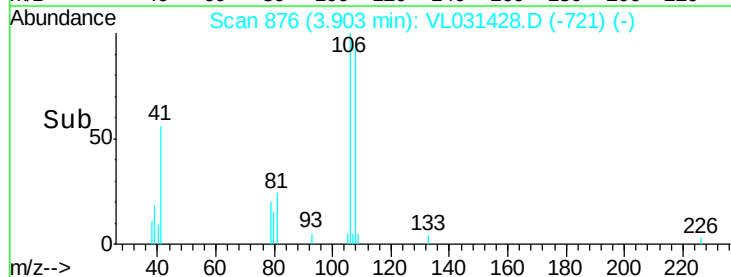
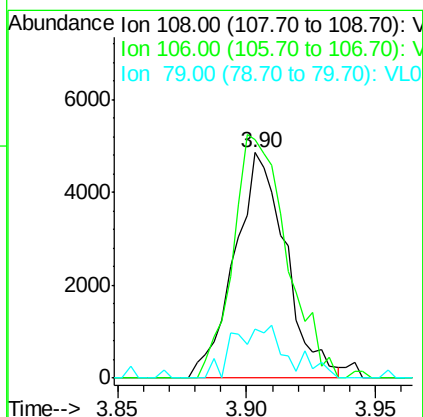
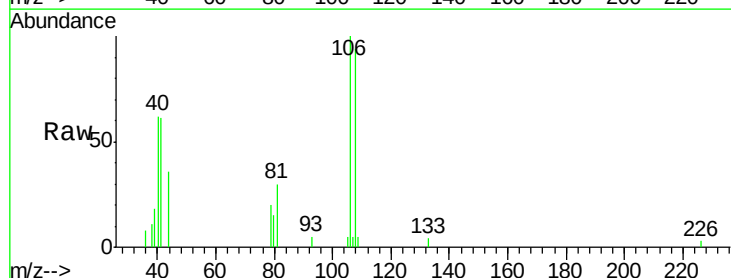
Manual Integrations
APPROVED

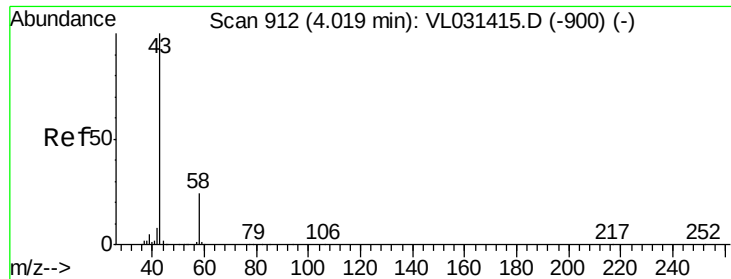
MMDadoda
1/24/2018 5:10:25 PM



#14
Bromoethene
Concen: 0.12 ppbv
RT: 3.90 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 108 Resp: 6717
Ion Ratio Lower Upper
108 100
106 113.4 85.3 127.9
79 25.0 16.8 25.2





#15

Acetone

Concen: 0.18 ppbv

RT: 4.05 min Scan# 921

Delta R.T. 0.03 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 43 Resp: 28493

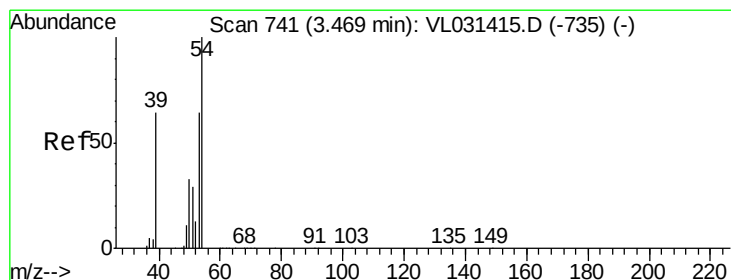
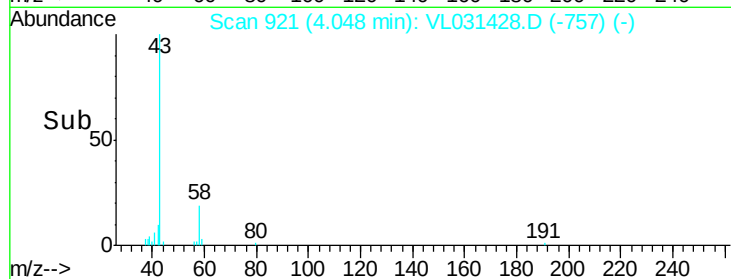
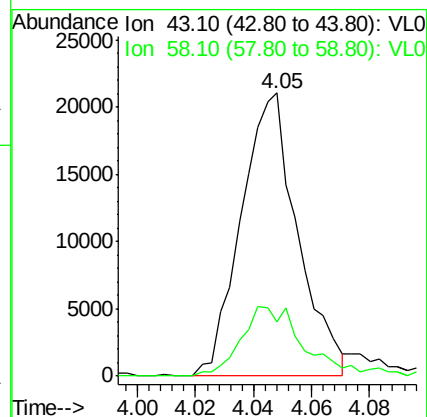
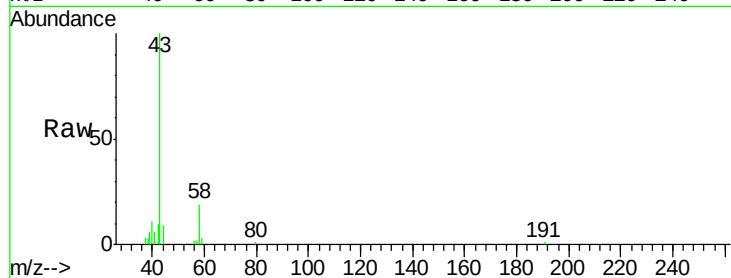
Ion Ratio Lower Upper

43 100

58 28.5 19.4 29.2

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



#16

1,3-Butadiene

Concen: 0.14 ppbv

RT: 3.47 min Scan# 741

Delta R.T. -0.00 min

Lab File: VL031428.D

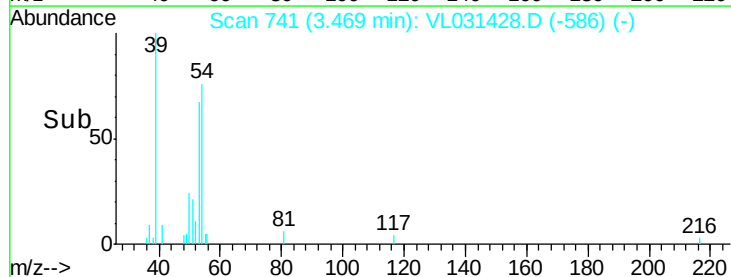
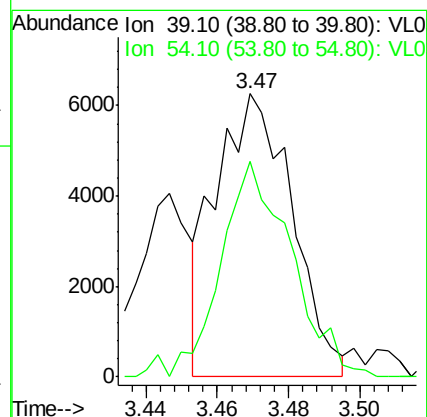
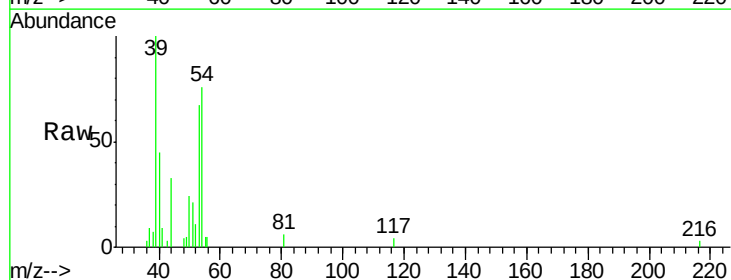
Acq: 22 Jan 2018 23:03

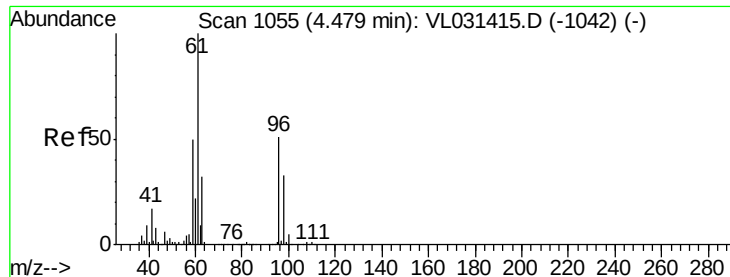
Tgt Ion: 39 Resp: 9250

Ion Ratio Lower Upper

39 100

54 71.1 67.0 100.6





#17

tert-Butyl alcohol

Concen: 0.12 ppbv m

RT: 4.52 min Scan# 1068

Delta R.T. 0.04 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-3

Tot Ion: 59 Resp: 9389

Ion Ratio Lower Upper

59 100

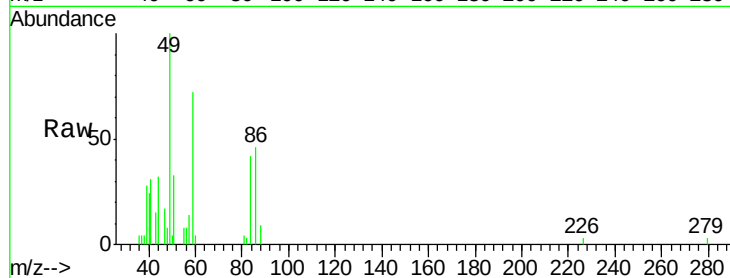
57 0.0 8.6 13.0#

Manual Integrations

APPROVED

MMDadoda

1/24/2018 5:10:25 PM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5000

4000

3000

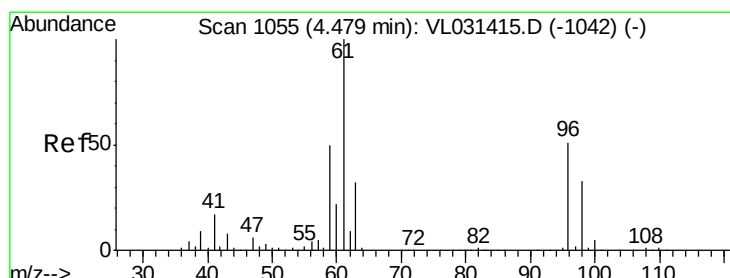
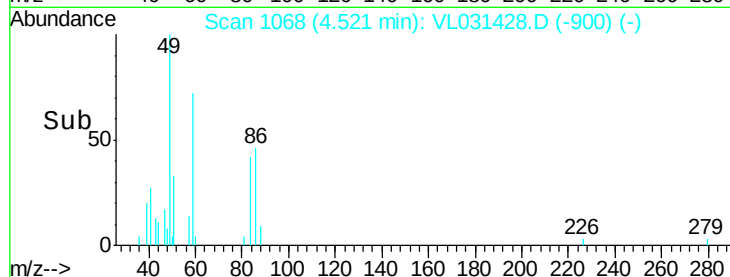
2000

1000

0

4.45 4.50 4.55 4.60 4.65

Time-->



#18

1,1-Dichloroethene

Concen: 0.13 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. 0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

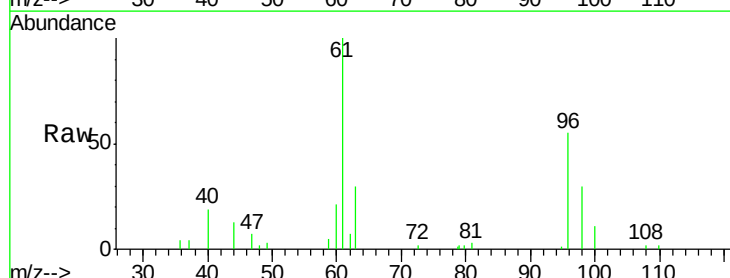
Tgt Ion: 96 Resp: 7955

Ion Ratio Lower Upper

96 100

61 182.8 161.6 242.4

98 54.2 49.6 74.4



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

15000

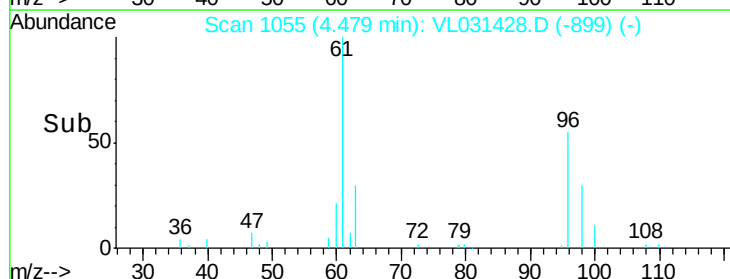
10000

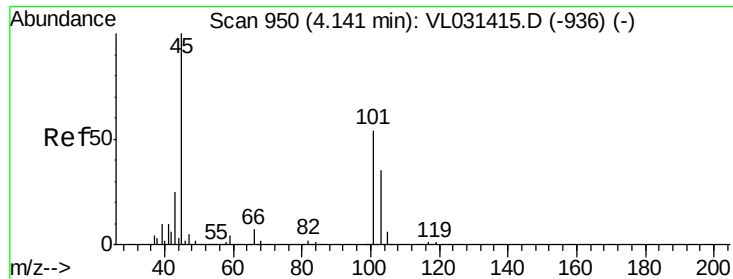
5000

0

4.45 4.50

Time-->





#19

Isopropyl Alcohol

Concen: 0.14 ppbv m

RT: 4.17 min Scan# 960

Delta R.T. 0.03 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 45 Resp: 13296

Ion Ratio Lower Upper

45 100

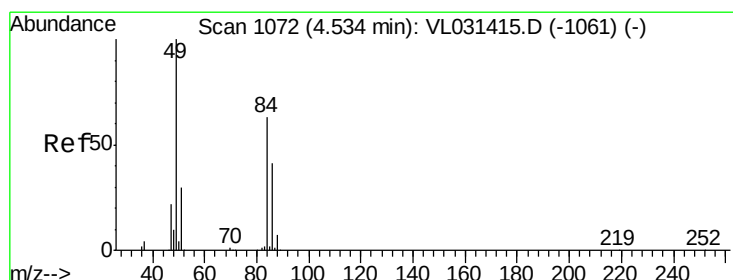
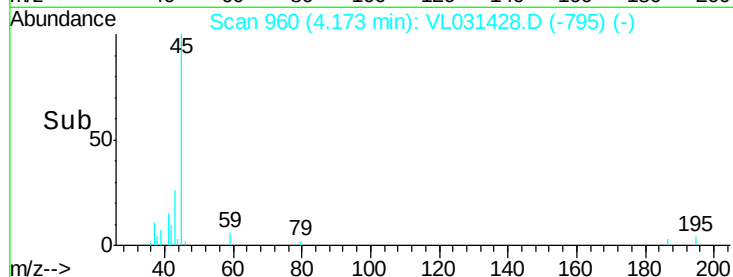
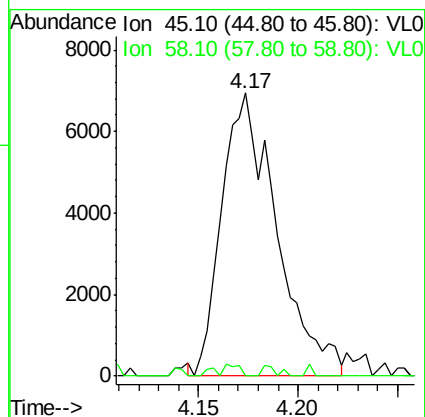
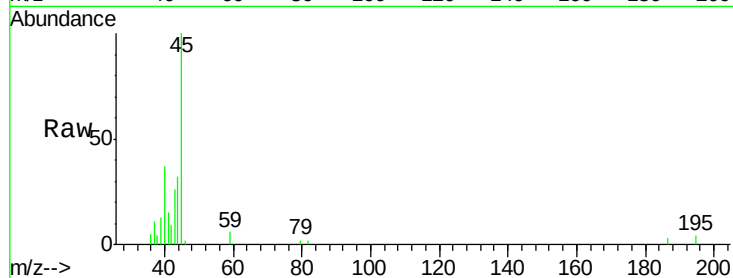
58 0.0 1.0 1.4#

Manual Integrations

APPROVED

MMDadoda

1/24/2018 5:10:25 PM



#20

Methylene Chloride

Concen: 0.26 ppbv

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion: 84 Resp: 15873

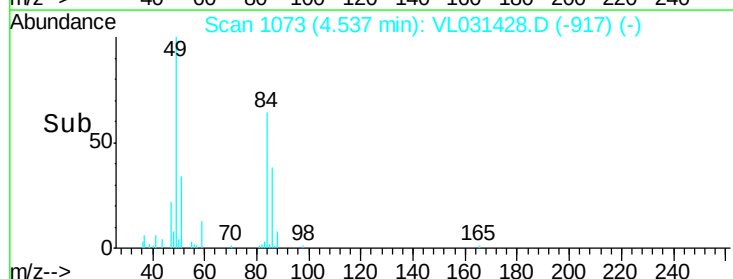
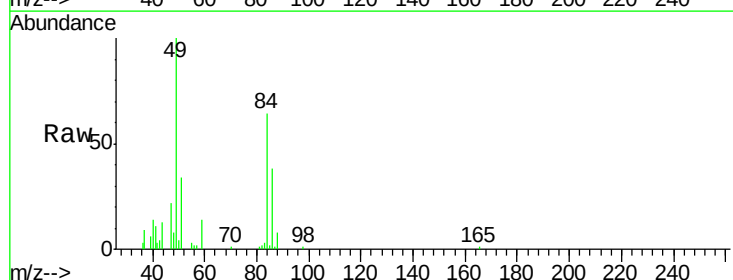
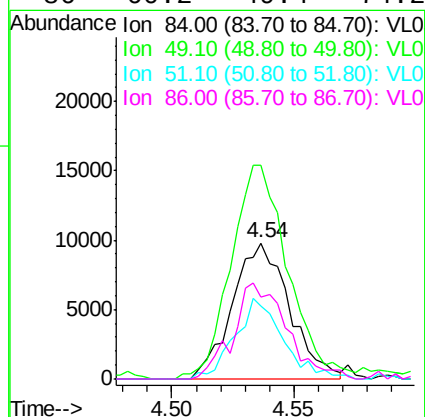
Ion Ratio Lower Upper

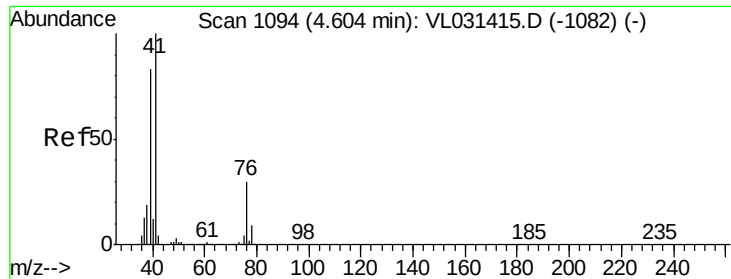
84 100

49 151.2 123.4 185.0

51 54.0 35.6 53.4#

86 60.2 49.4 74.2





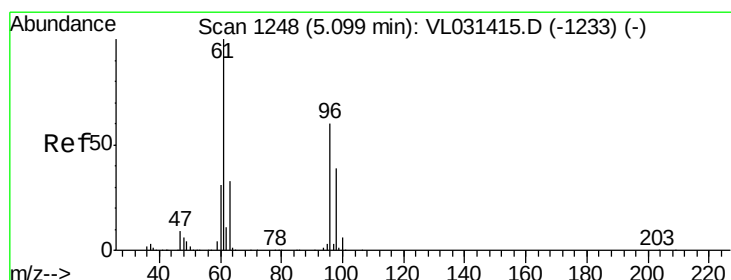
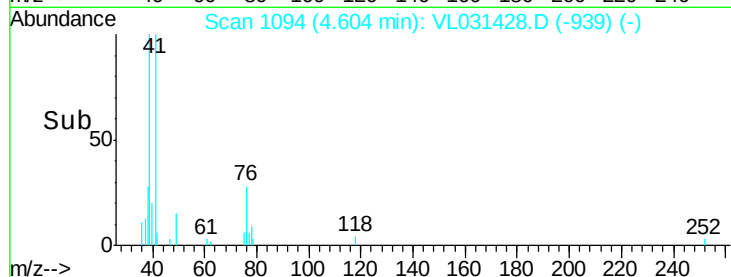
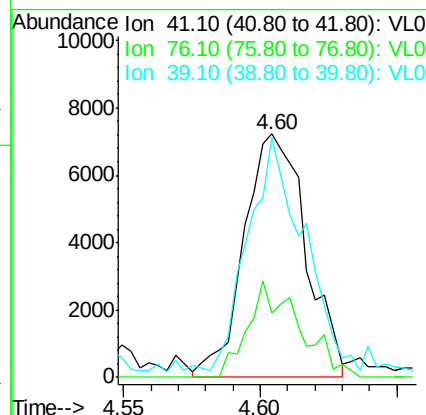
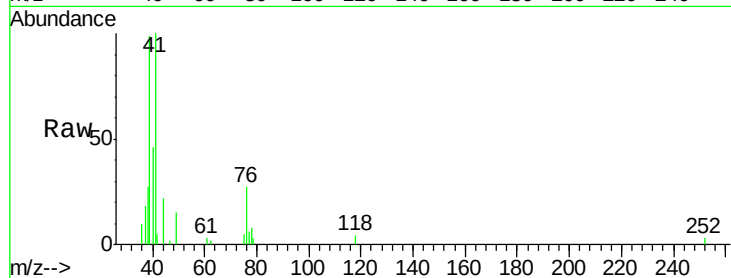
#21
 Allvl Chloride
 Concen: 0.12 ppbv
 RT: 4.60 min Scan# 1094
 Delta R.T. -0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.8	24.2	36.2
39	99.1	69.8	104.8

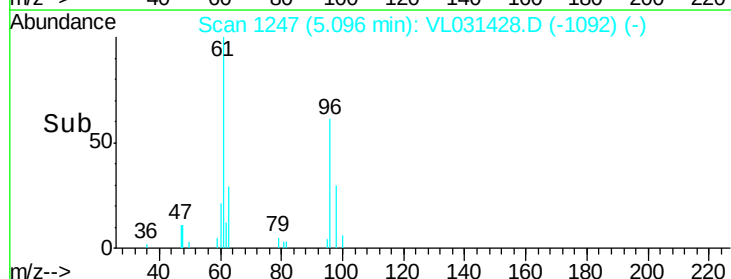
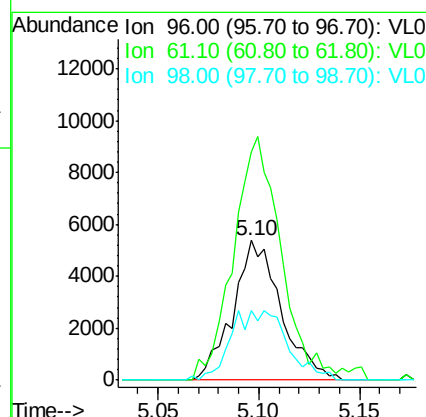
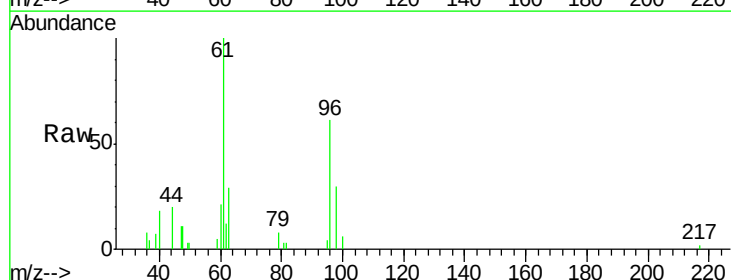
Manual Integrations
 APPROVED

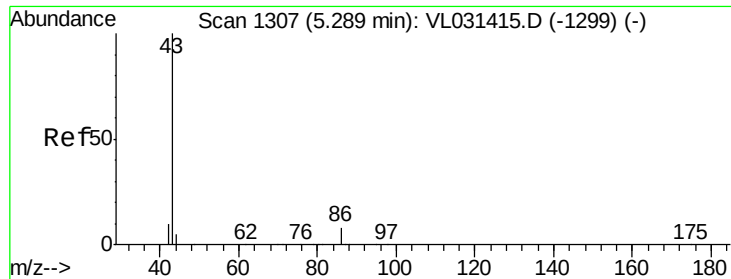
MMDadoda
 1/24/2018 5:10:25 PM



#22
 trans-1,2-Dichloroethene
 Concen: 0.14 ppbv
 RT: 5.10 min Scan# 1247
 Delta R.T. -0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.1	135.0	202.4
98	49.5	52.2	78.2#





#23

Vinyl Acetate

Concen: 0.12 ppbv m

RT: 5.31 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampled :

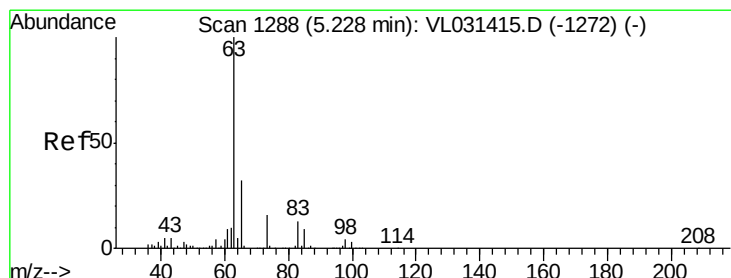
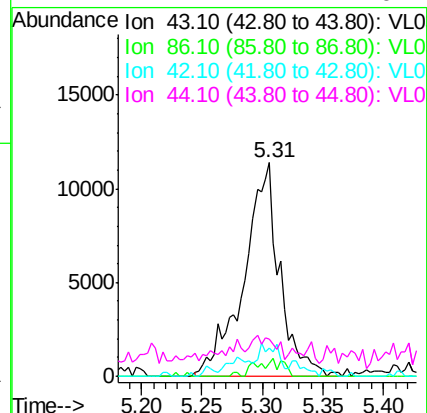
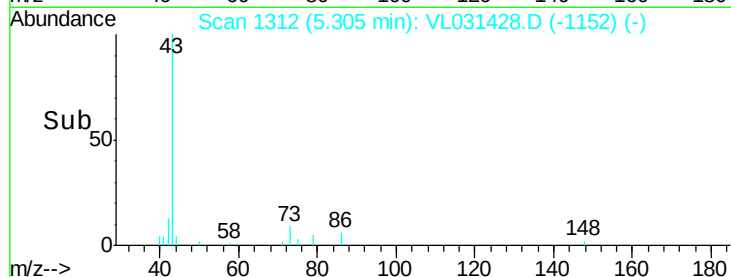
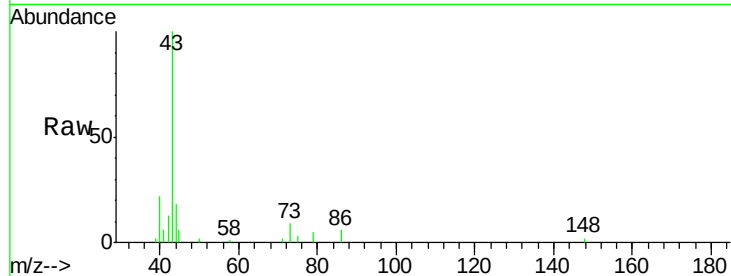
MDL-AIR-3

Tot Ion: 43 Resp: 23185

Ion	Ratio	Lower	Upper
43	100		
86	6.1	5.6	8.4
42	13.5	8.6	12.8#
44	17.7	4.2	6.4#

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



#24

1,1-Dichloroethane

Concen: 0.13 ppbv

RT: 5.22 min Scan# 1287

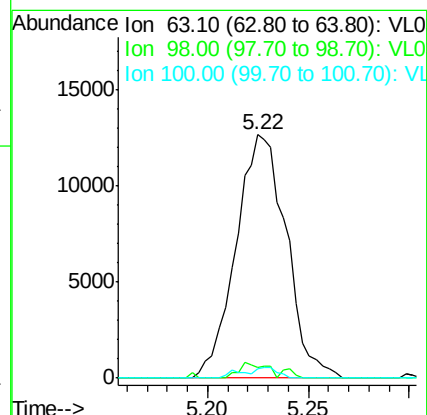
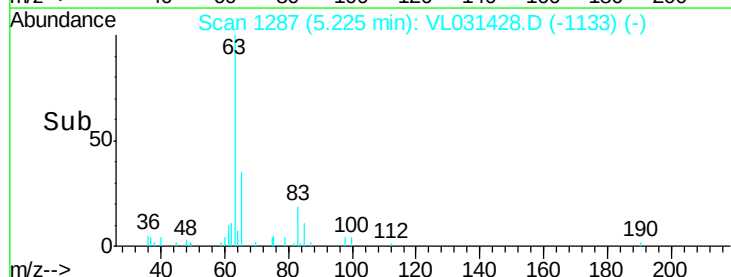
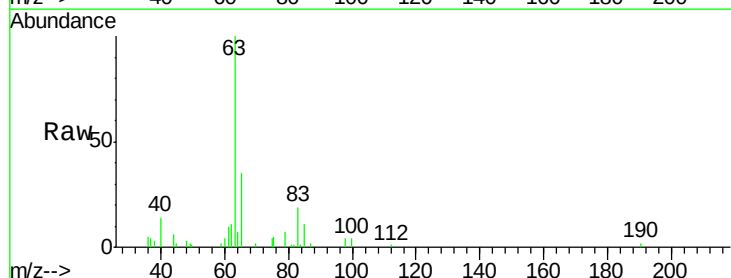
Delta R.T. -0.01 min

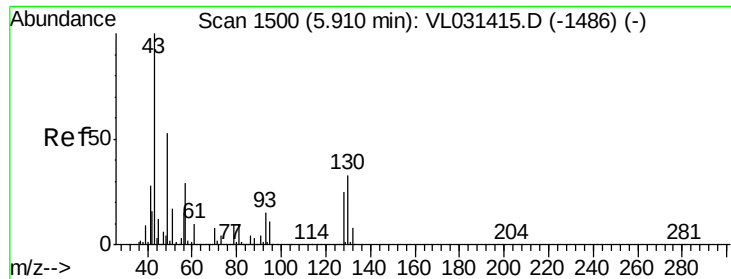
Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion: 63 Resp: 22063

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.4	7.1
100	4.1	1.3	3.9#





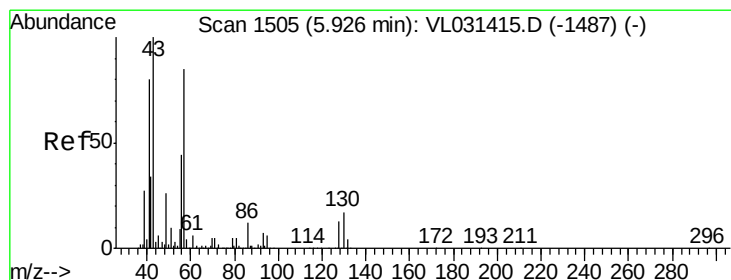
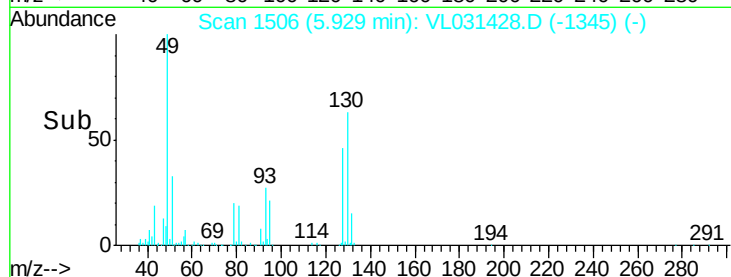
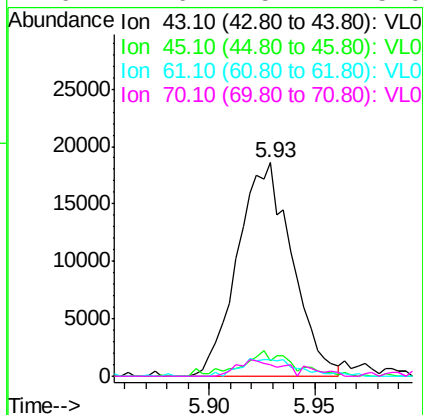
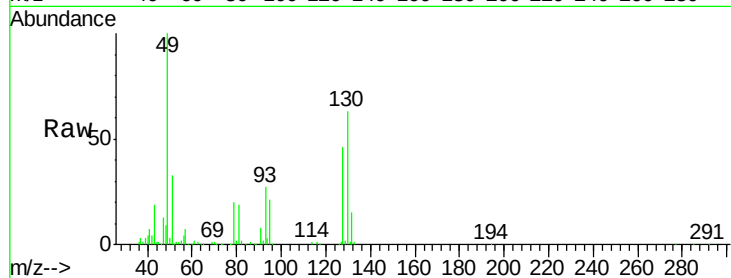
#25
Ethyl Acetate
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
43	100		
45	11.7	7.8	11.6#
61	8.9	7.0	10.6
70	7.6	5.4	8.0

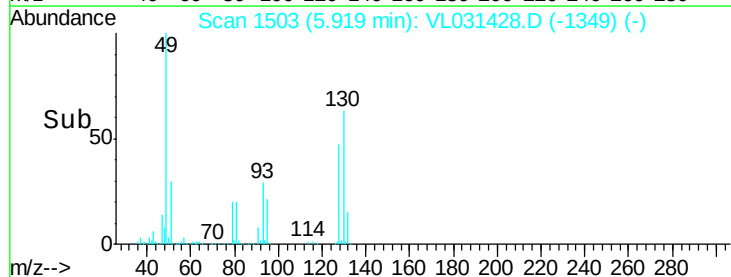
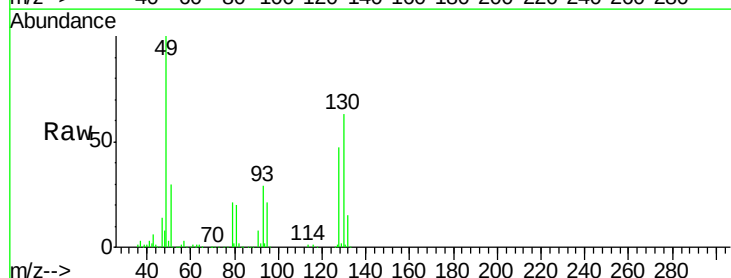
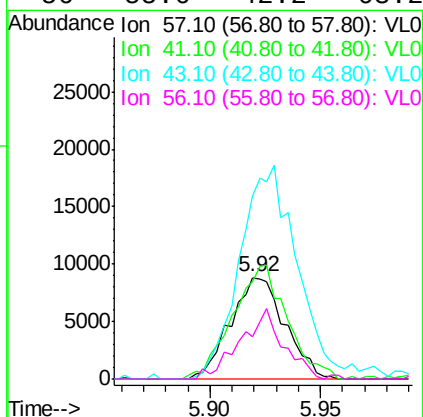
Manual Integrations
APPROVED

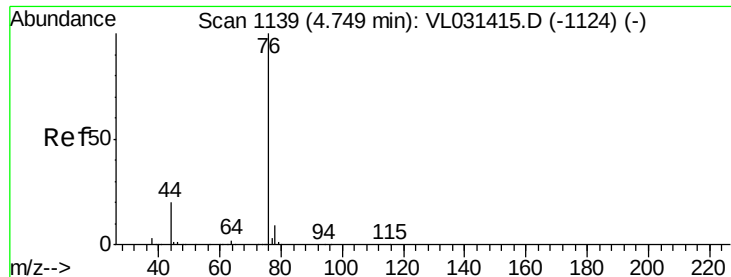
MMDadoda
1/24/2018 5:10:25 PM



#26
Hexane
Concen: 0.12 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	112.9	77.1	115.7
43	230.2	180.7	271.1
56	55.6	42.2	63.2





#27

Carbon Disulfide

Concen: 0.12 ppbv

RT: 4.75 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

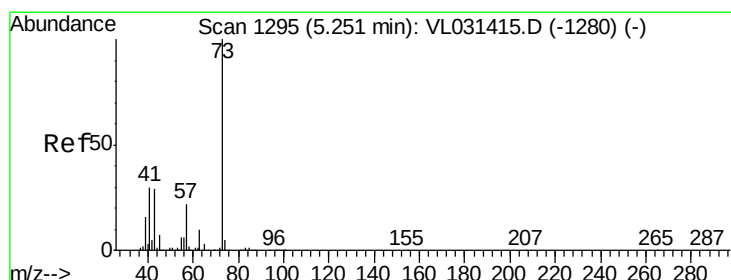
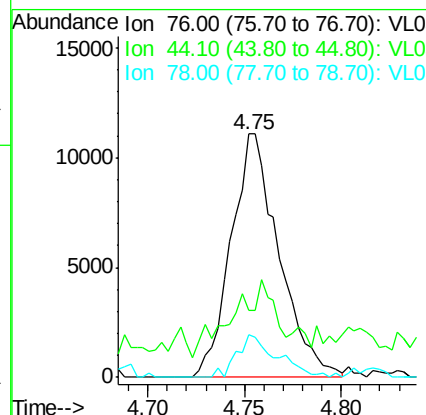
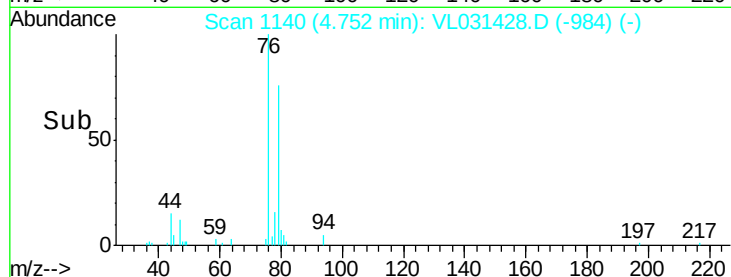
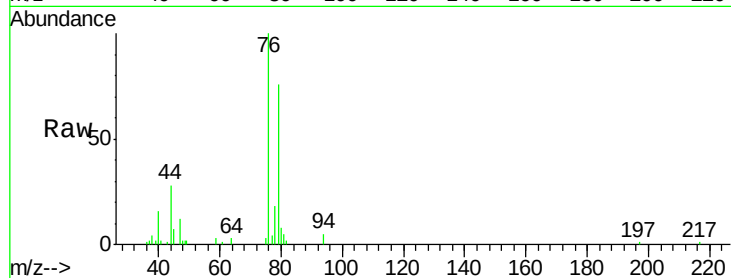
ClientSampleId :

MDL-AIR-3

Tot Ion:	76	Resp:	19085
Ion	Ratio	Lower	Upper
76	100		
44	50.5	16.7	25.1#
78	14.4	7.5	11.3#

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



#28

Methyl tert-Butyl Ether

Concen: 0.11 ppbv m

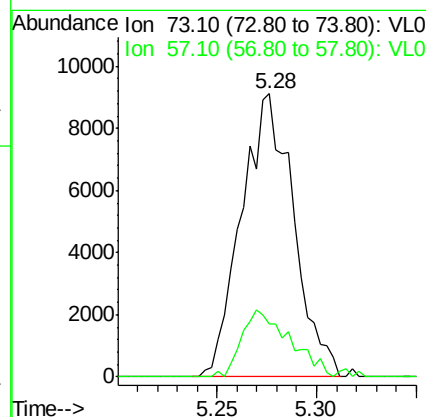
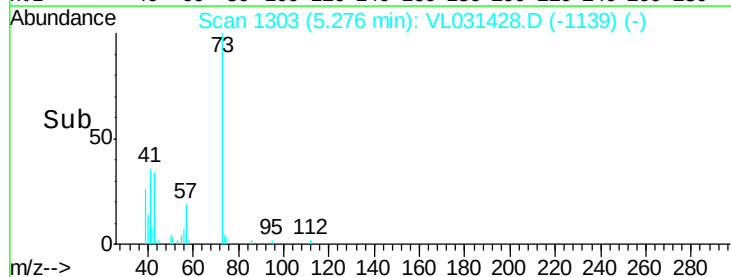
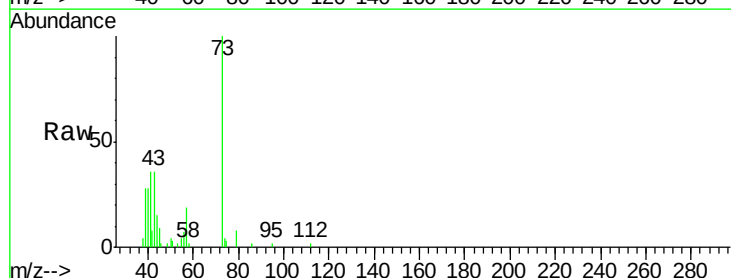
RT: 5.28 min Scan# 1303

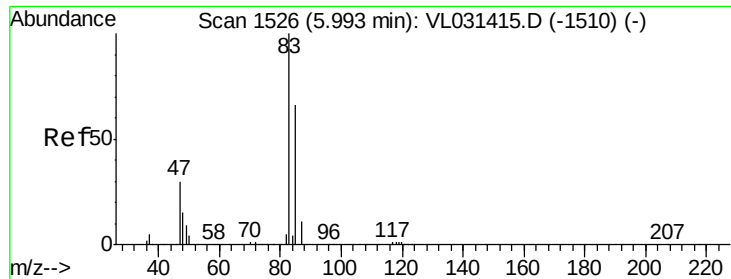
Delta R.T. 0.03 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion:	73	Resp:	16569
Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.5	26.3





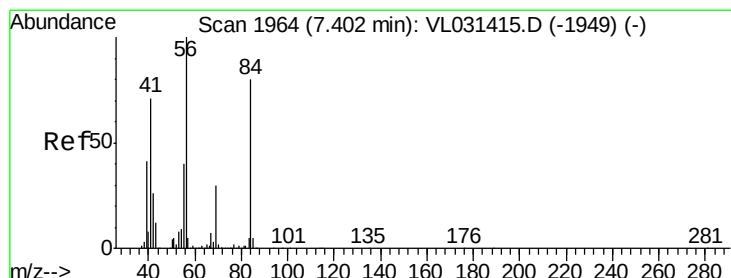
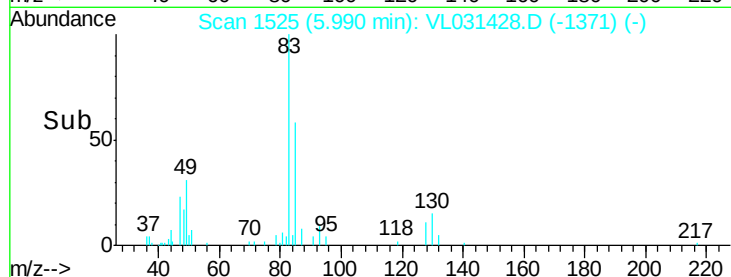
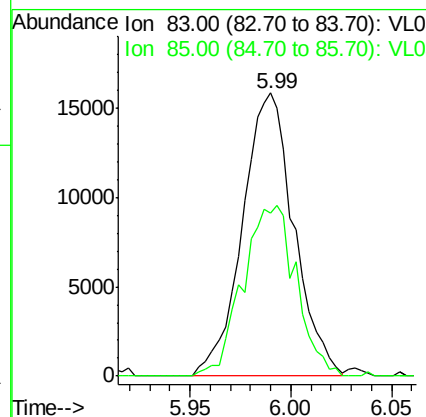
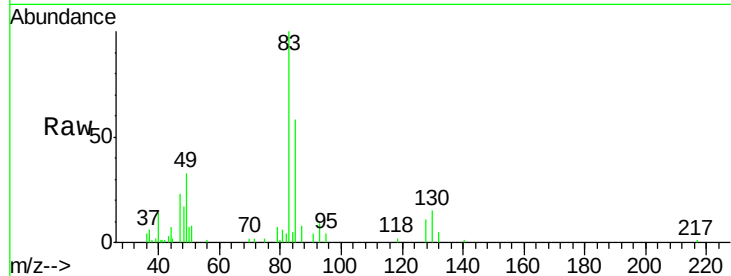
#29
Chloroform
Concen: 0.13 ppbv
RT: 5.99 min Scan# 1525
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	83	Resp	28232
Ion Ratio	100	Lower	Upper
83	100		
85	57.7	51.3	76.9

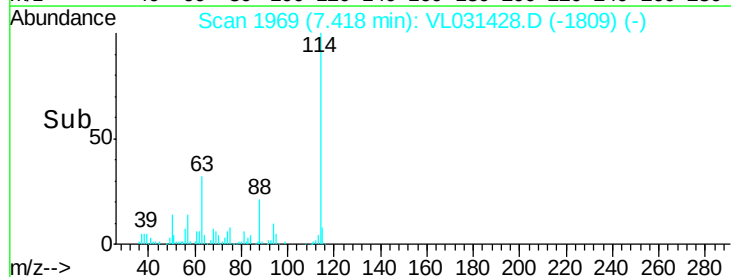
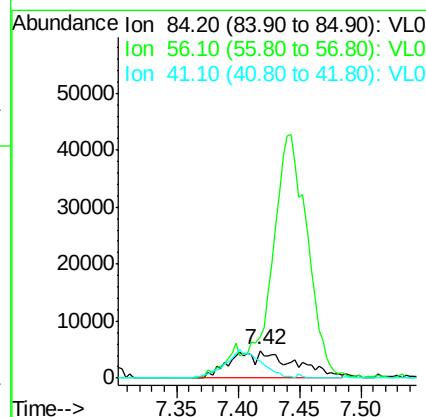
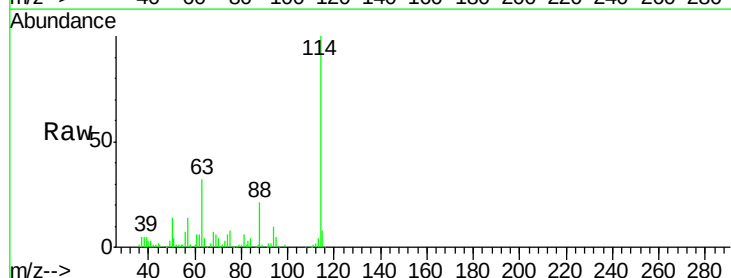
Manual Integrations
APPROVED

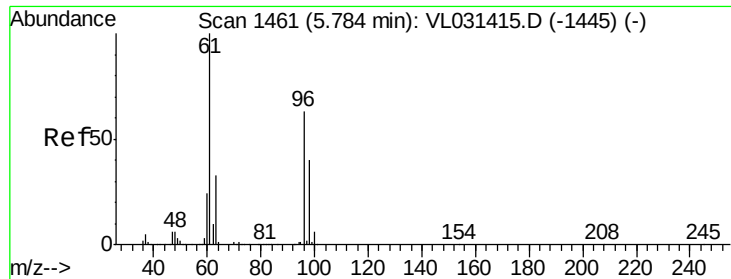
MMDadoda
1/24/2018 5:10:25 PM



#30
Cyclohexane
Concen: 0.18 ppbv m
RT: 7.42 min Scan# 1969
Delta R.T. 0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion	84	Resp	17289
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	109.0	163.4#
41	58.9	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: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

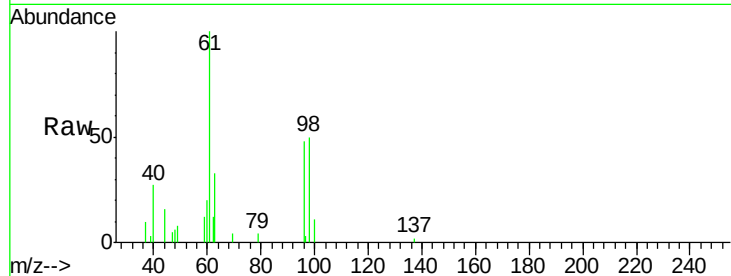
ClientSampled :

MDL-AIR-3

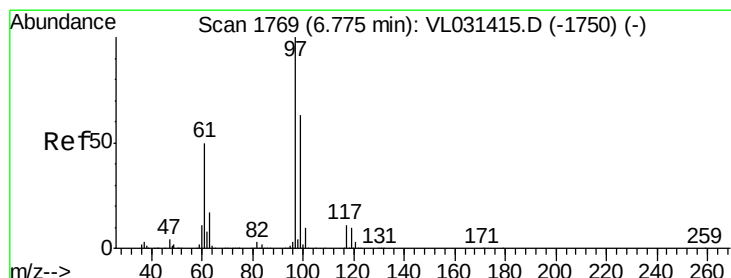
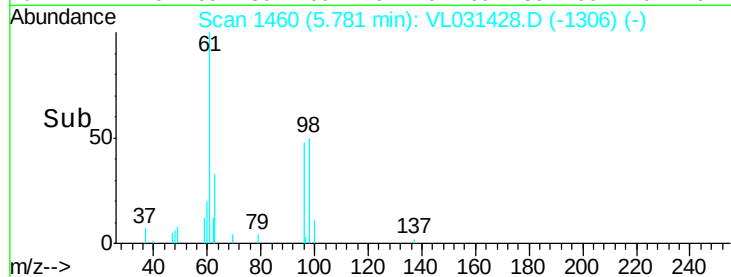
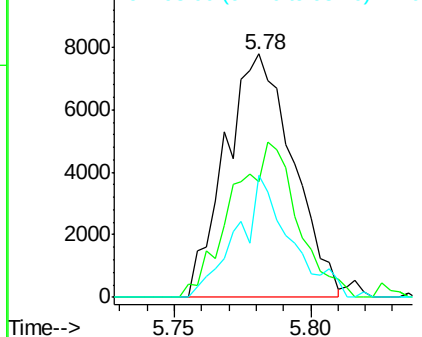
Tot Ion:	61	Resp:	13391
Ion Ratio	Lower	Upper	
61	100		
96	45.4	51.3	76.9#
98	50.0	33.6	50.4

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.13 ppbv

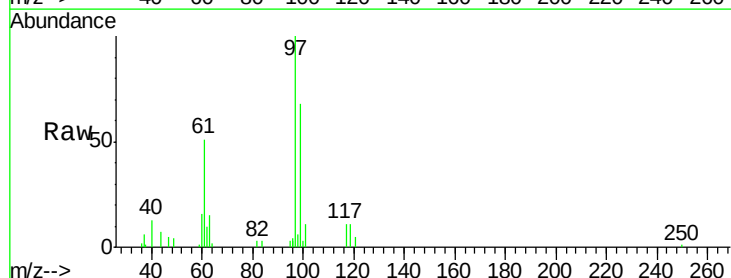
RT: 6.77 min Scan# 1768

Delta R.T. -0.00 min

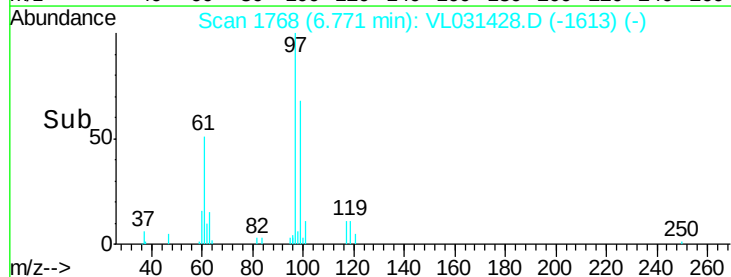
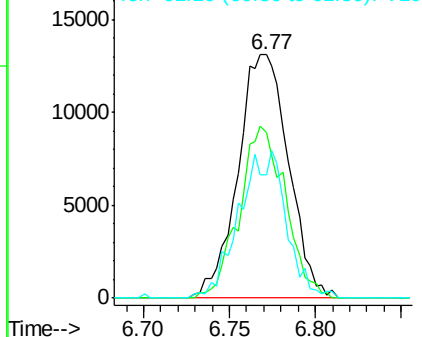
Lab File: VL031428.D

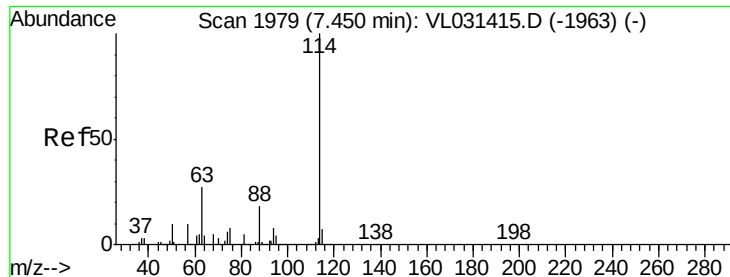
Acq: 22 Jan 2018 23:03

Tgt Ion:	97	Resp:	26847
Ion Ratio	Lower	Upper	
97	100		
99	64.3	51.9	77.9
61	56.3	40.6	61.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





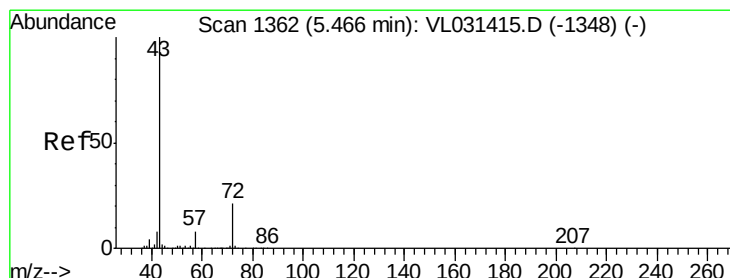
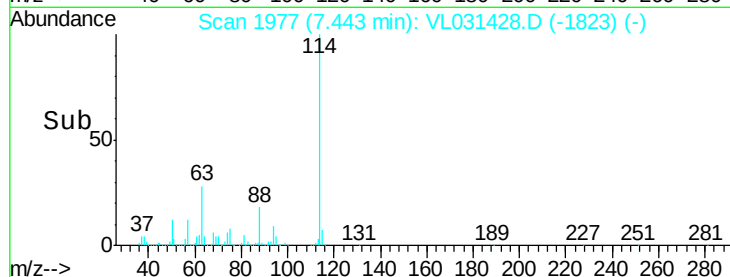
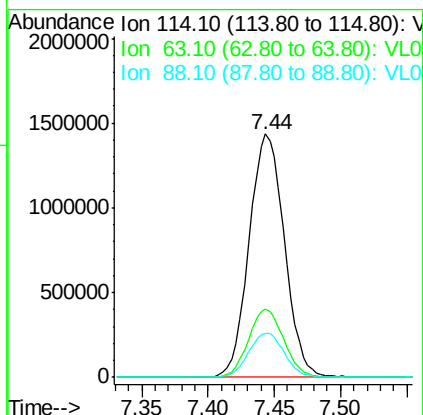
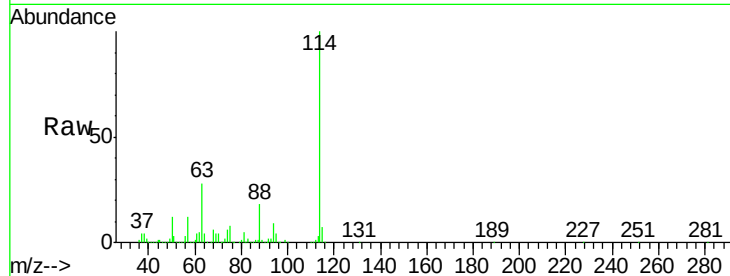
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.44 min Scan# 1977
 Delta R.T. -0.01 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.5	33.7
88	18.5	14.6	22.0

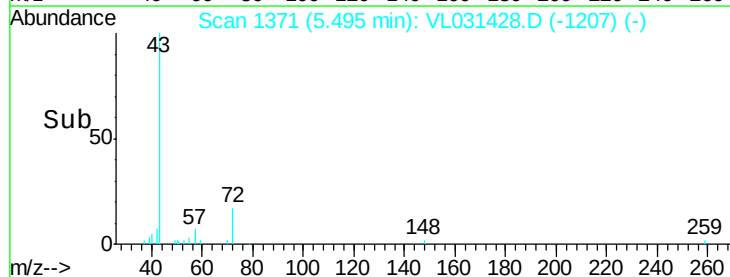
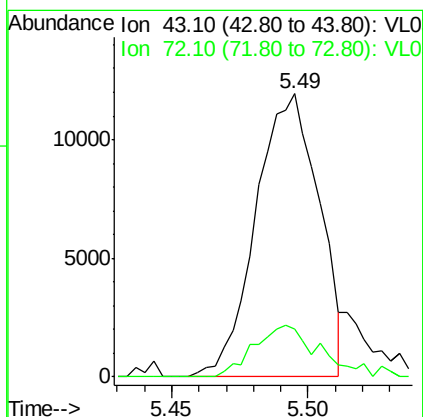
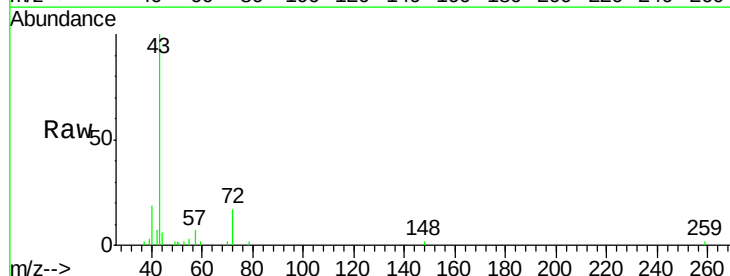
Manual Integrations
 APPROVED

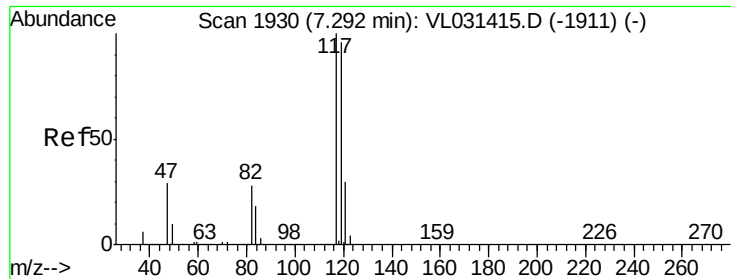
MMDadoda
 1/24/2018 5:10:25 PM



#34
 2-Butanone
 Concen: 0.11 ppbv
 RT: 5.49 min Scan# 1371
 Delta R.T. 0.03 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.3	16.8	25.2





#35

Carbon Tetrachloride

Concen: 0.13 ppbv m

RT: 7.29 min Scan# 1929

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

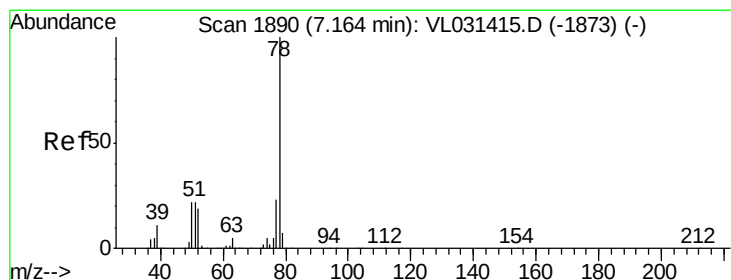
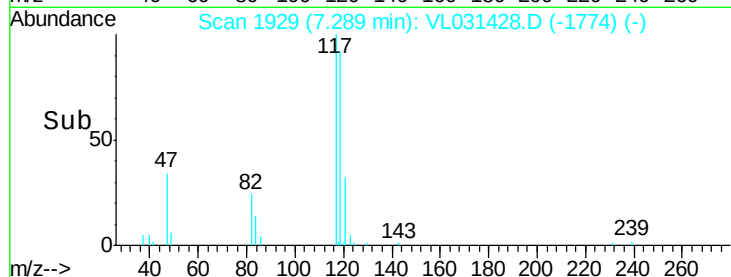
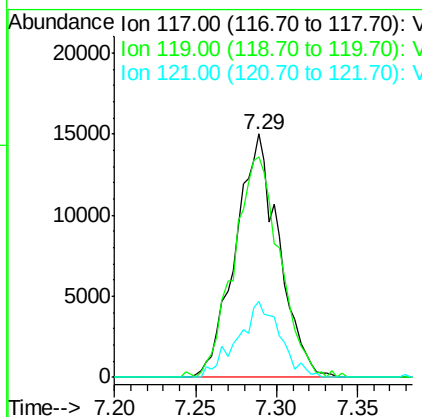
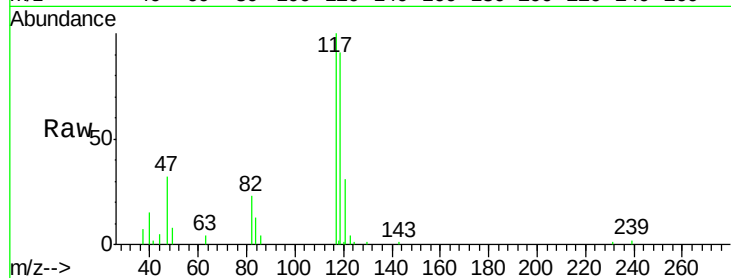
ClientSampleId :

MDL-AIR-3

Tot Ion:	117	Resp:	28103
Ion Ratio	Lower	Upper	
117	100		
119	90.8	74.2	111.4
121	31.1	24.2	36.4

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



#36

Benzene

Concen: 0.11 ppbv

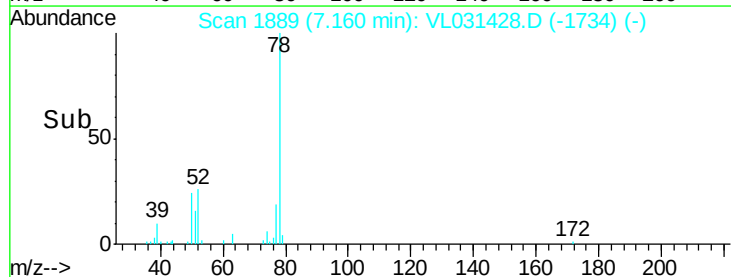
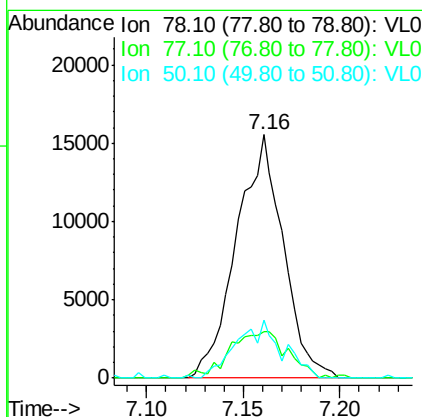
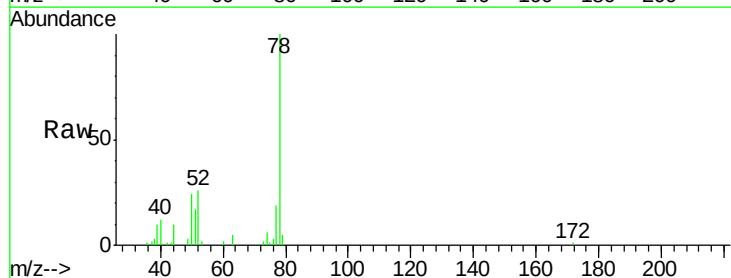
RT: 7.16 min Scan# 1889

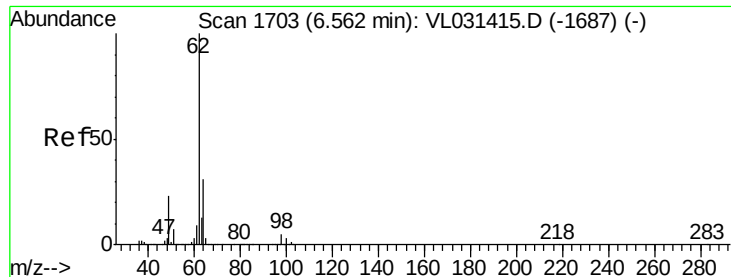
Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion:	78	Resp:	26150
Ion Ratio	Lower	Upper	
78	100		
77	18.1	18.7	28.1#
50	24.0	18.4	27.6





#37

1,2-Dichloroethane

Concen: 0.13 ppbv

RT: 6.56 min Scan# 1702

Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

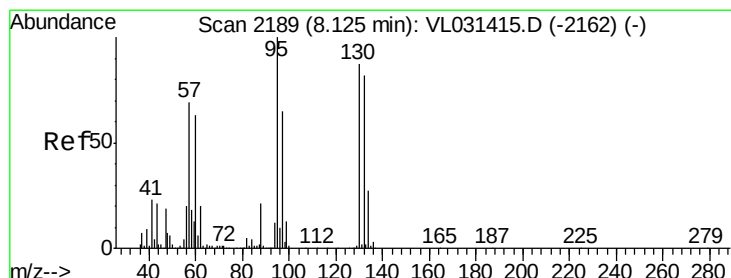
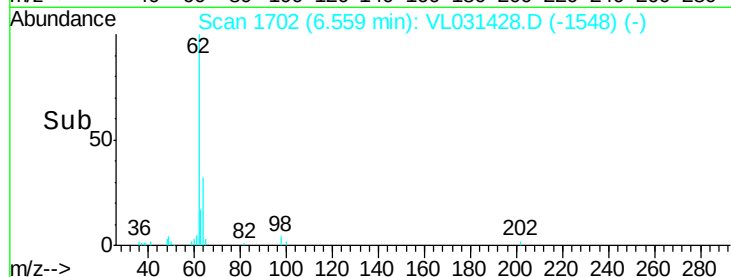
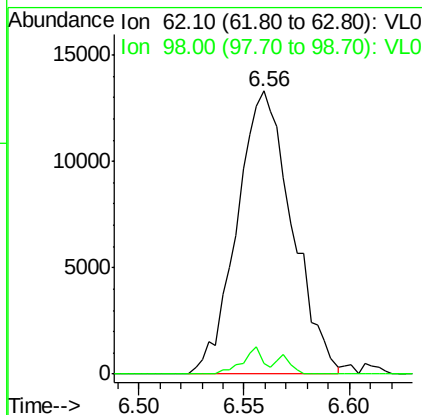
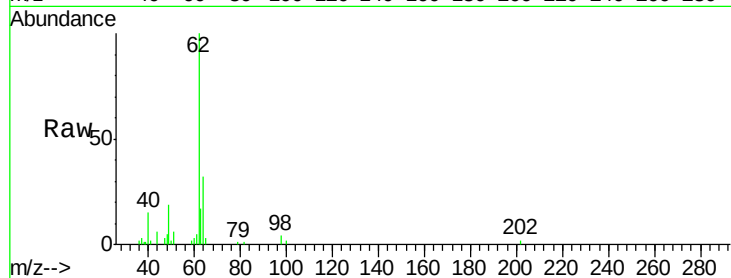
ClientSampleId :

MDL-AIR-3

Tot Ion	Ratio	Resp	Lower	Upper
62	100	24126		
98	5.3		4.1	6.1

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



#38

Trichloroethene

Concen: 0.14 ppbv m

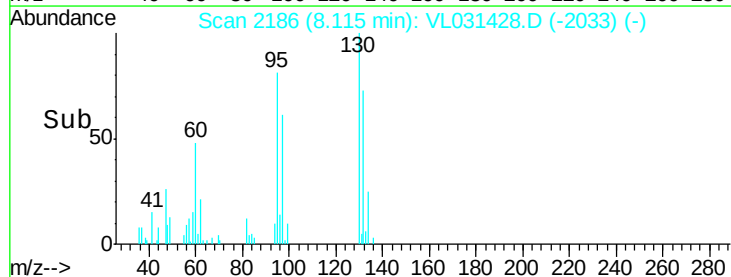
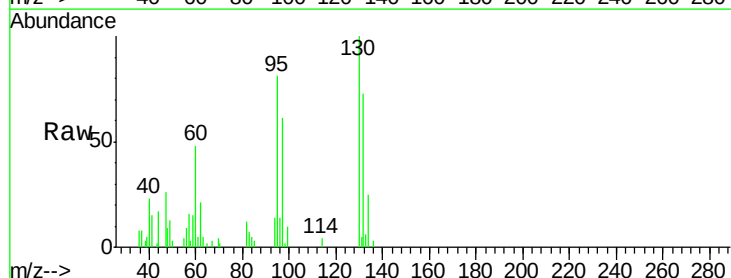
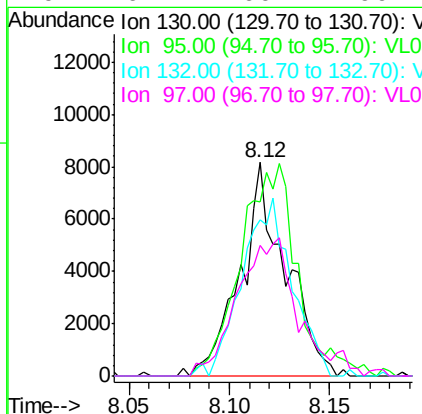
RT: 8.12 min Scan# 2186

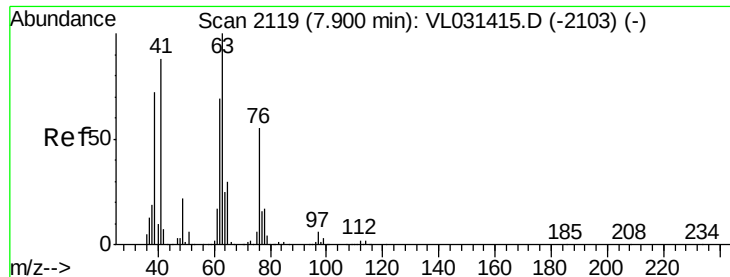
Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	12771		
95	81.4		92.9	139.3#
132	73.4		74.9	112.3#
97	61.4		60.2	90.4





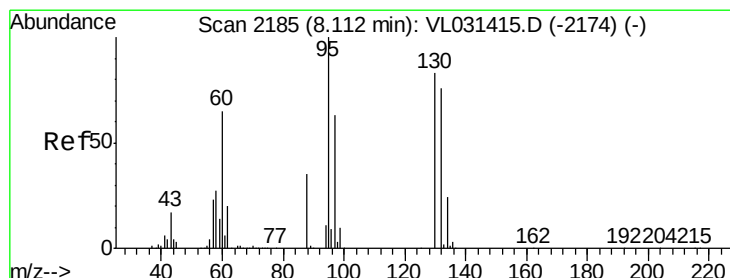
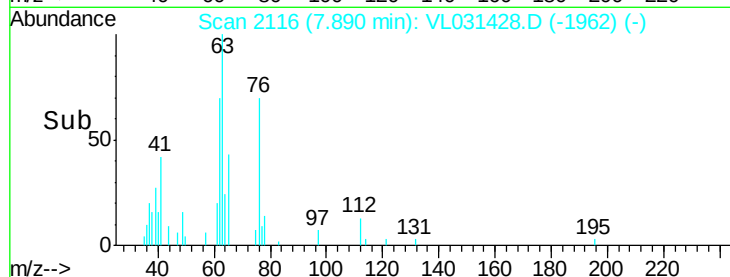
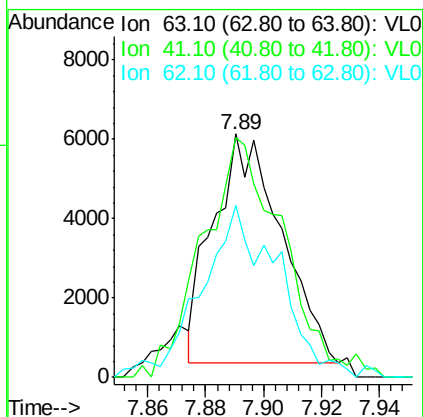
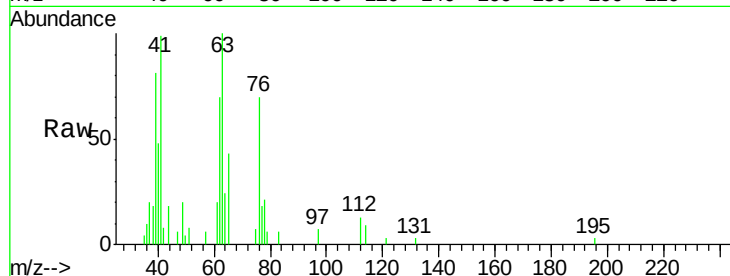
#39
 1,2-Dichloropropane
 Concen: 0.11 ppbv
 RT: 7.89 min Scan# 2116
 Delta R.T. -0.01 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
63	100		
41	96.9	67.6	101.4
62	68.6	51.8	77.6

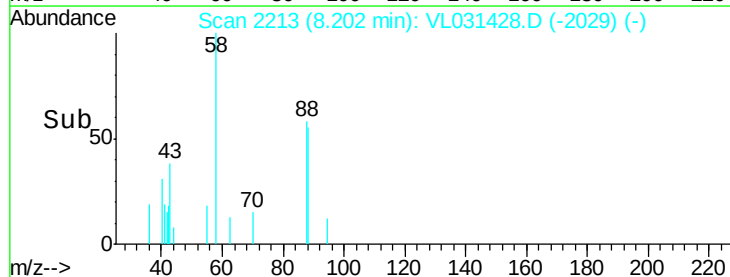
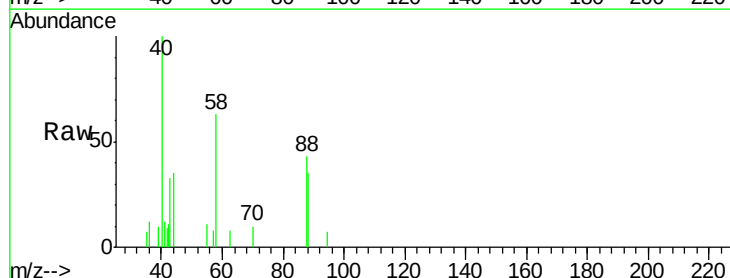
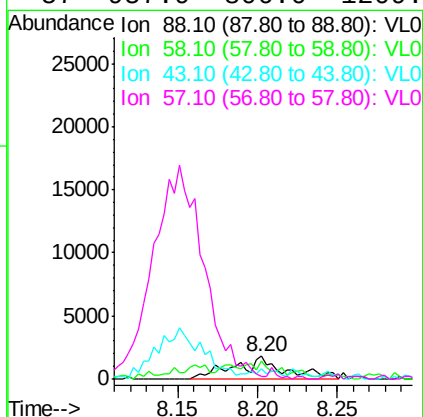
Manual Integrations
 APPROVED

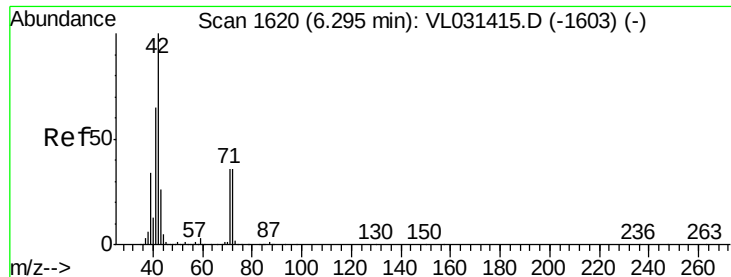
MMDadoda
 1/24/2018 5:10:25 PM



#40
 1,4-Dioxane
 Concen: 0.11 ppbv m
 RT: 8.20 min Scan# 2213
 Delta R.T. 0.09 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	98.2	147.2#
43	209.7	197.3	295.9
57	957.9	806.0	1209.0





#41

Tetrahydrofuran

Concen: 0.10 ppbv m

RT: 6.33 min Scan# 1632

Delta R.T. 0.04 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

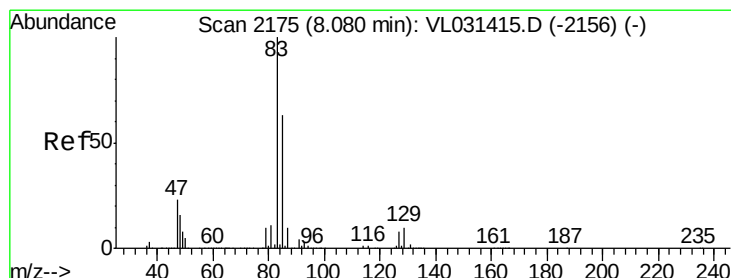
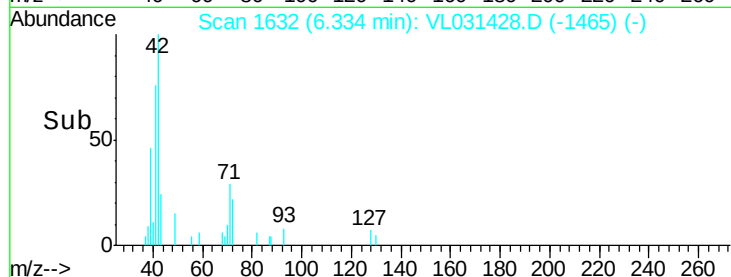
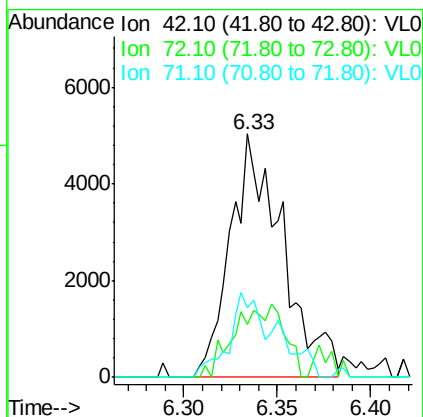
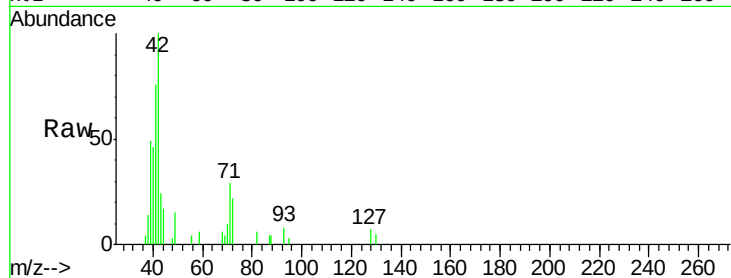
ClientSampleId :

MDL-AIR-3

Tot Ion:	42	Resp:	9646
Ion Ratio	Lower	Upper	
42	100		
72	0.0	30.4	45.6#
71	32.6	29.2	43.8

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



#42

Bromodichloromethane

Concen: 0.13 ppbv m

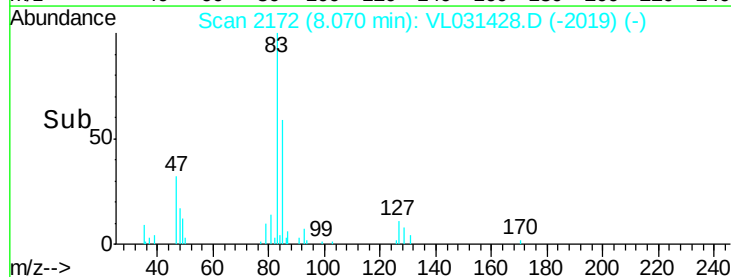
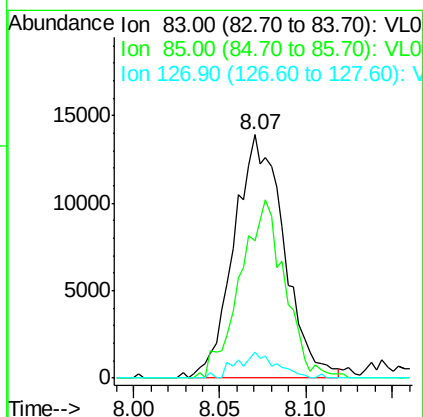
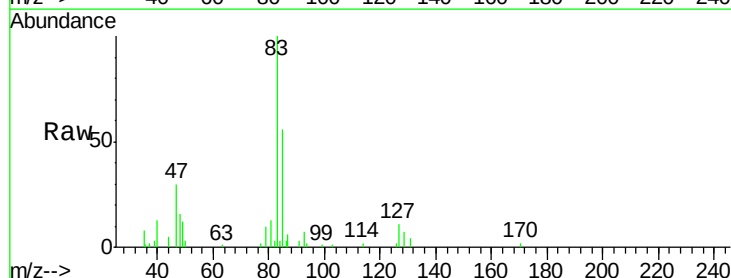
RT: 8.07 min Scan# 2172

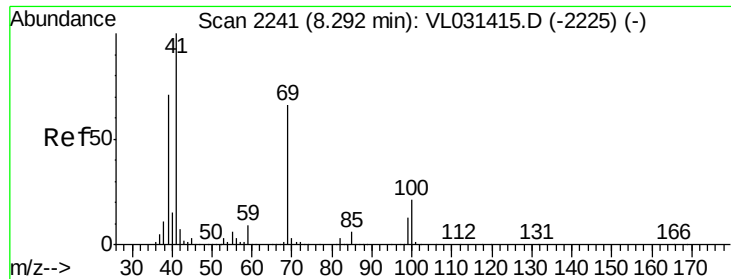
Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion:	83	Resp:	28177
Ion Ratio	Lower	Upper	
83	100		
85	56.5	52.1	78.1
127	10.8	6.6	10.0#





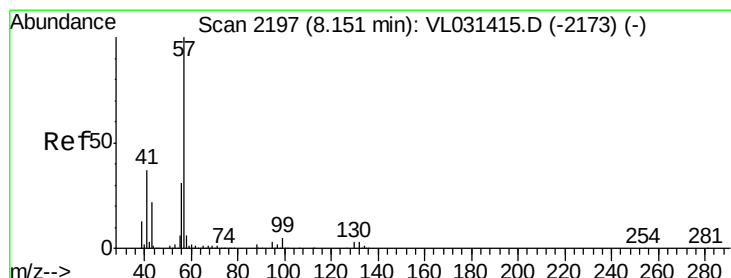
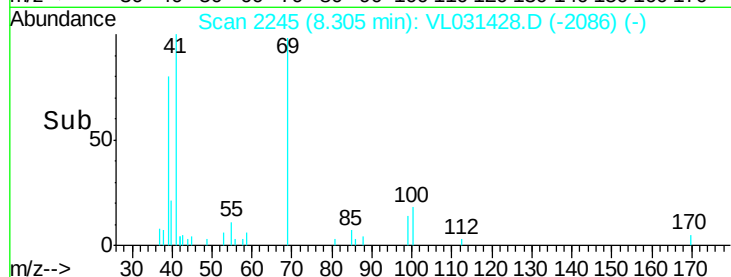
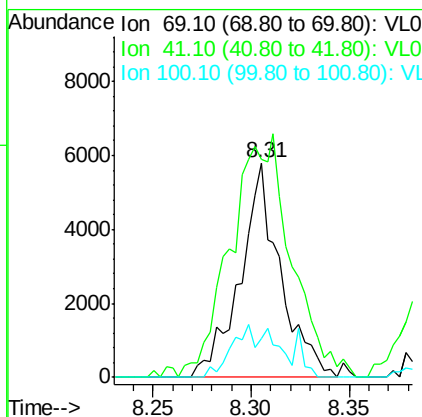
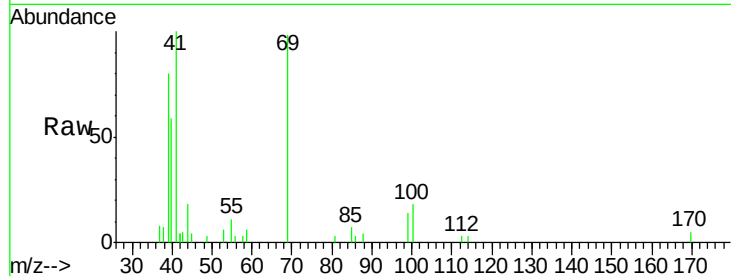
#43
Methyl Methacrylate
Concen: 0.10 ppbv m
RT: 8.31 min Scan# 2245
Delta R.T. 0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

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

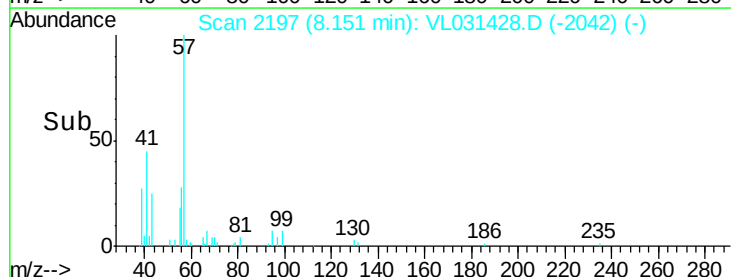
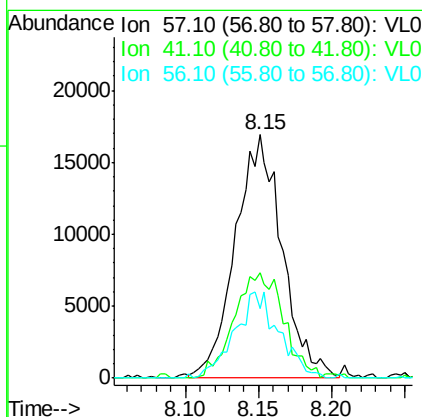
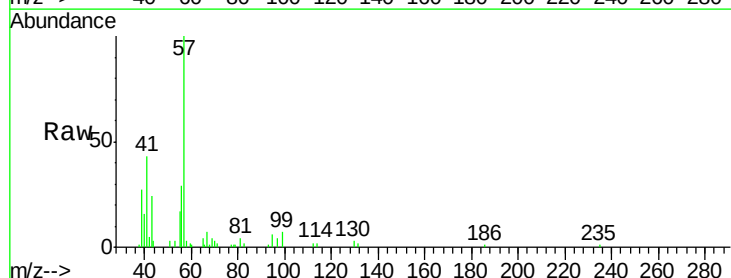
Manual Integrations
APPROVED

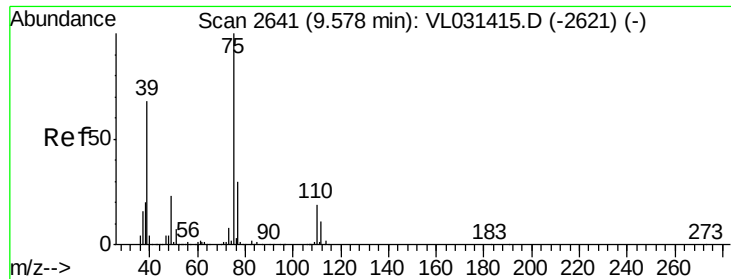
MMDadoda
1/24/2018 5:10:25 PM



#44
2,2,4-Trimethylpentane
Concen: 0.09 ppbv m
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	46.2	28.8	43.2#
56	33.7	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 0.09 ppbv m

RT: 9.57 min Scan# 2639

Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tot Ion: 75 Resp: 11068

Ion Ratio Lower Upper

75 100

77 26.9 25.3 37.9

Instrument :

MSVOA_L

ClientSampled :

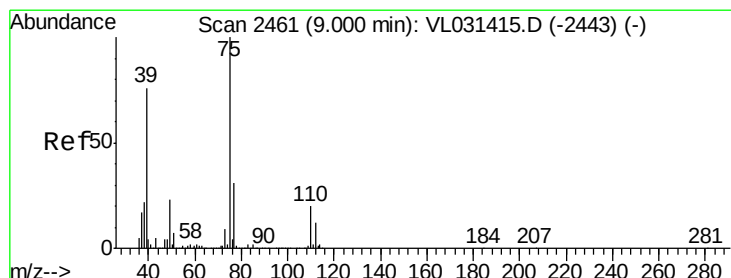
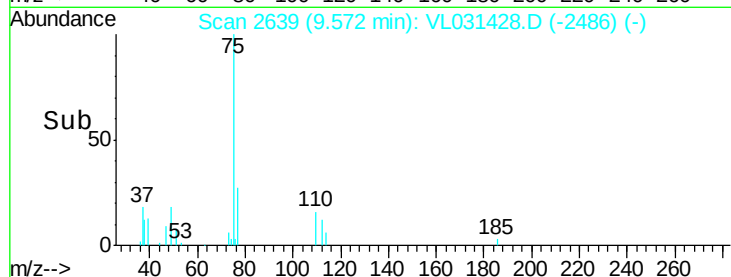
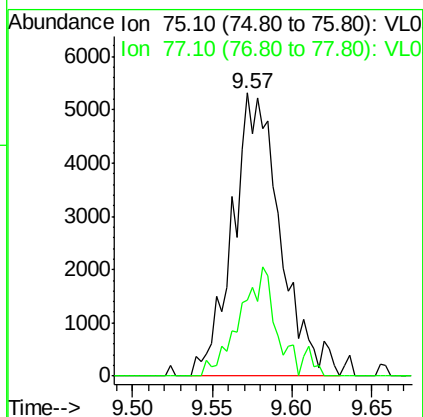
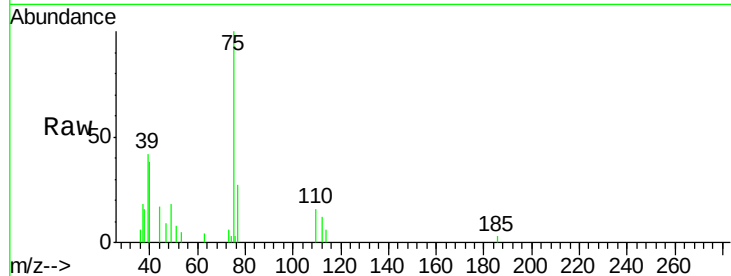
MDL-AIR-3

Manual Integrations

APPROVED

MMDadoda

1/24/2018 5:10:25 PM



#46

cis-1,3-Dichloropropene

Concen: 0.08 ppbv

RT: 8.99 min Scan# 2459

Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

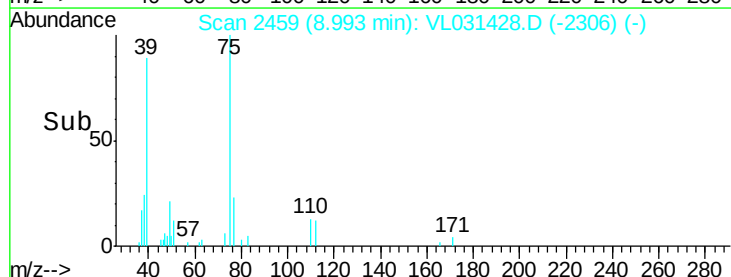
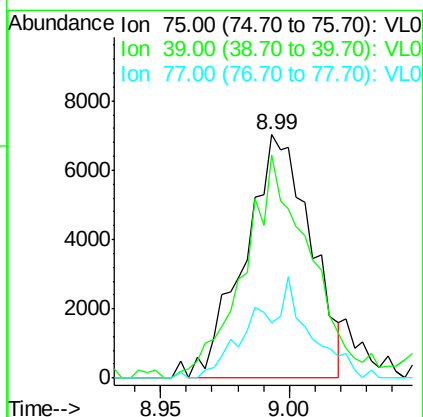
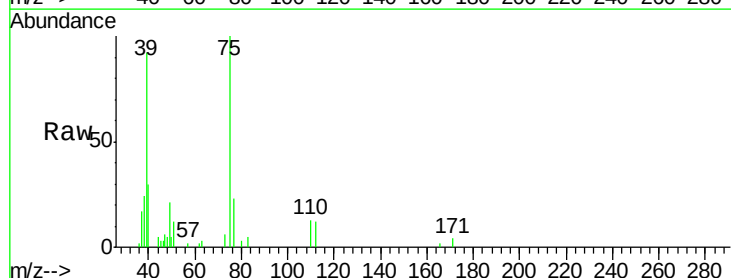
Tgt Ion: 75 Resp: 12506

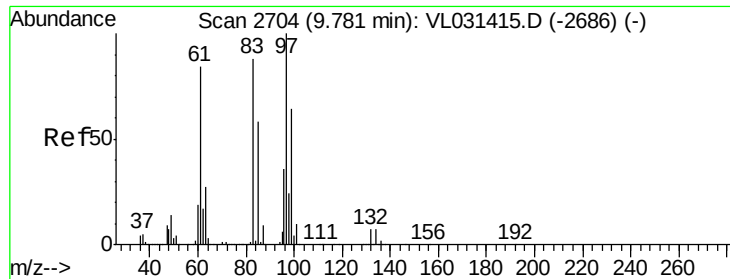
Ion Ratio Lower Upper

75 100

39 87.9 59.4 89.0

77 23.0 25.0 37.4#





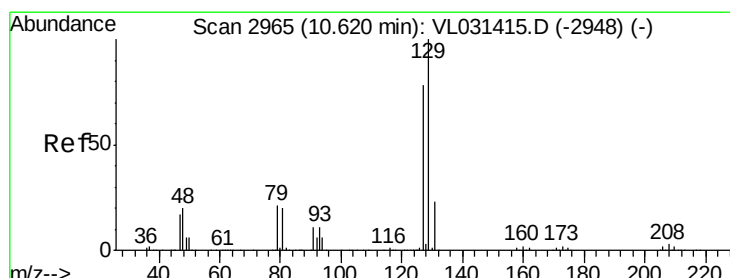
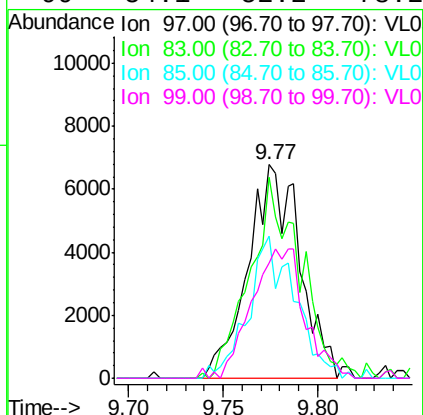
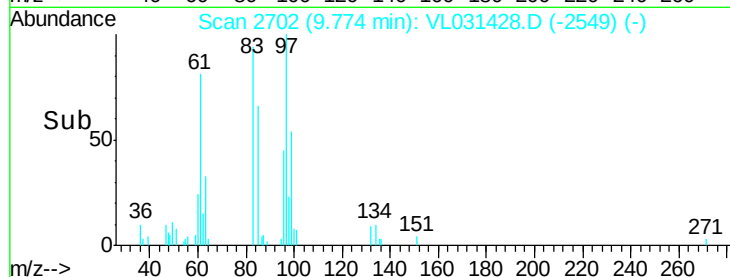
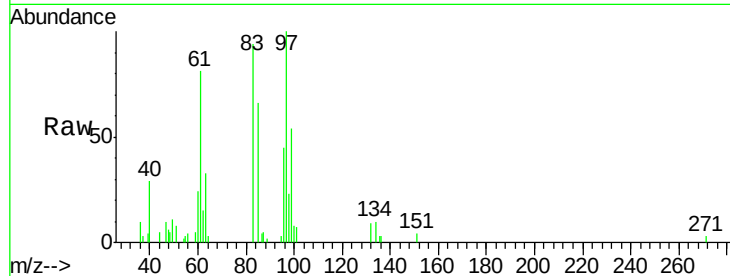
#47
 1,1,2-Trichloroethane
 Concen: 0.12 ppbv m
 RT: 9.77 min Scan# 2702
 Delta R.T. -0.01 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-3

Tot Ion:	97	Resp:	12825
Ion	Ratio	Lower	Upper
97	100		
83	94.3	71.4	107.2
85	66.4	46.2	69.2
99	54.1	52.2	78.2

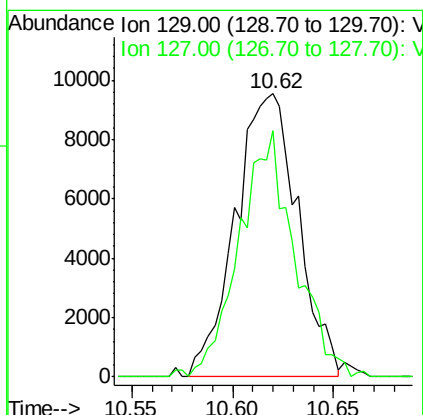
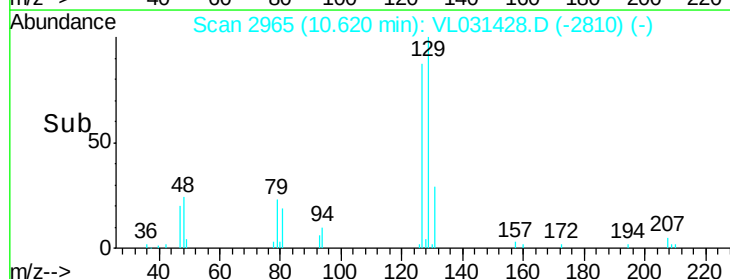
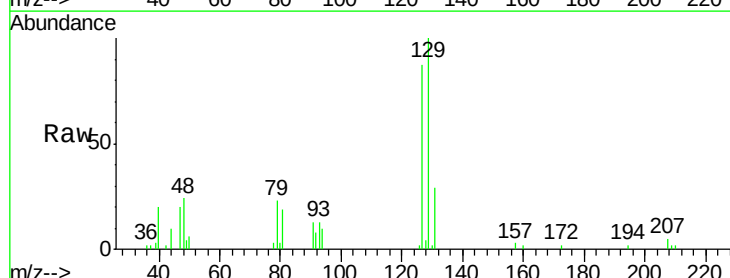
Manual Integrations
 APPROVED

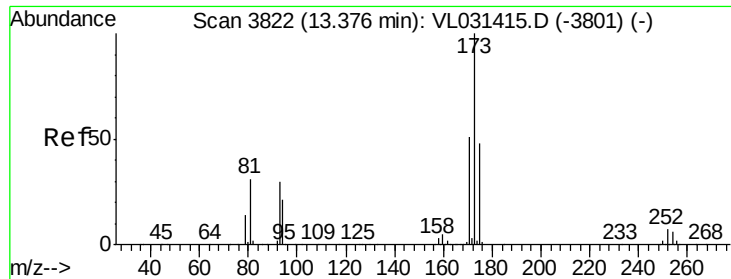
MMDadoda
 1/24/2018 5:10:25 PM



#48
 Dibromochloromethane
 Concen: 0.11 ppbv
 RT: 10.62 min Scan# 2965
 Delta R.T. -0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Tgt Ion:	129	Resp:	20556
Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.4	118.1





#49

Bromoform

Concen: 0.10 ppbv m

RT: 13.38 min Scan# 3822

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion:173 Resp: 14698

Ion Ratio Lower Upper

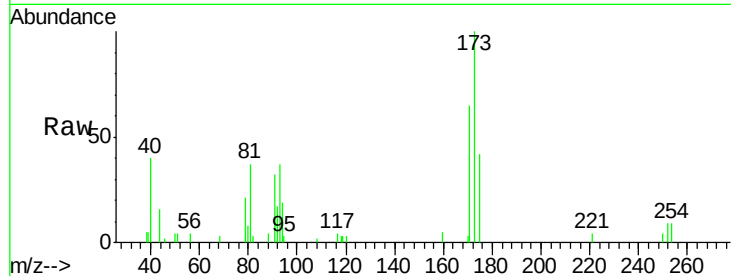
173 100

175 0.0 39.0 58.4#

171 0.0 42.0 63.0#

Manual Integrations
APPROVED

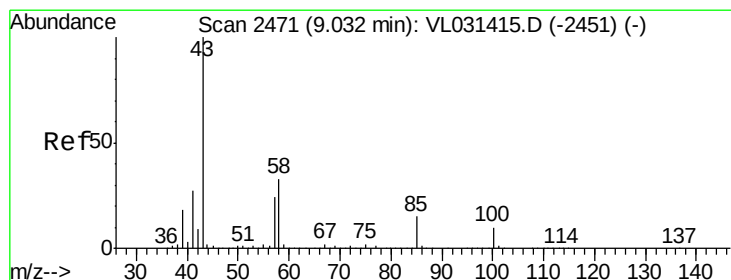
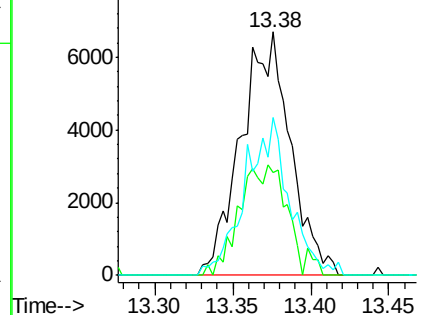
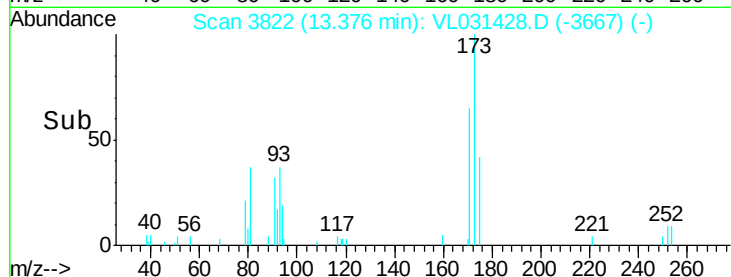
MMDadoda
1/24/2018 5:10:25 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.09 ppbv m

RT: 9.06 min Scan# 2481

Delta R.T. 0.03 min

Lab File: VL031428.D

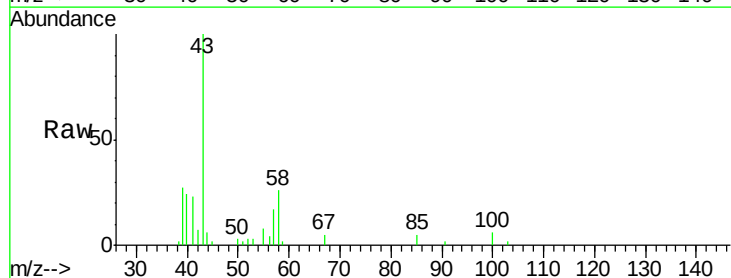
Acq: 22 Jan 2018 23:03

Tgt Ion: 43 Resp: 20909

Ion Ratio Lower Upper

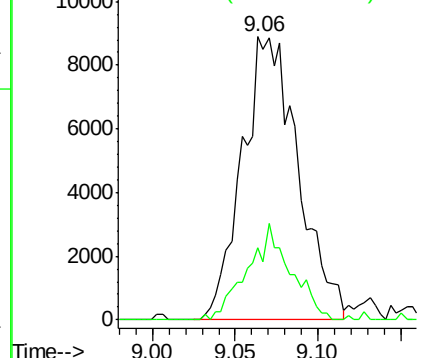
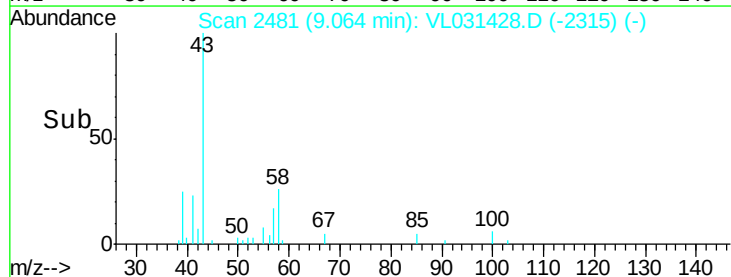
43 100

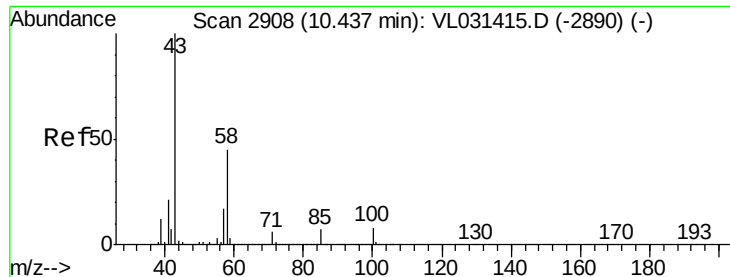
58 0.0 27.1 40.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.08 ppbv m

RT: 10.48 min Scan# 2921

Delta R.T. 0.04 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

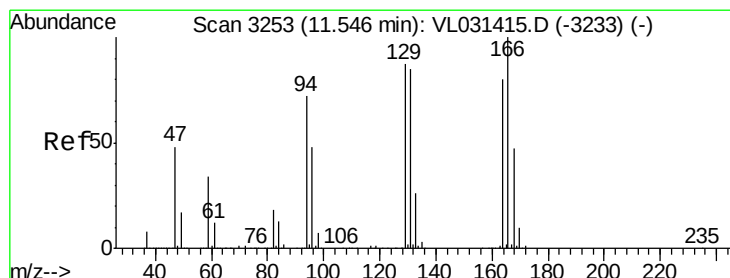
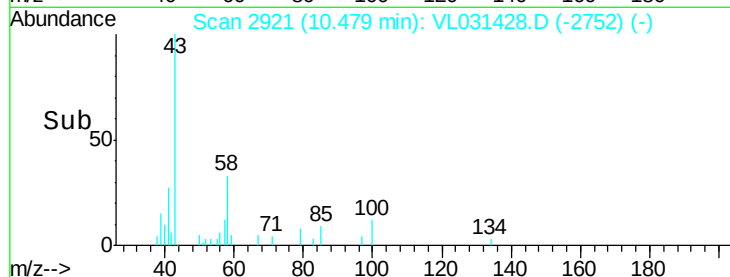
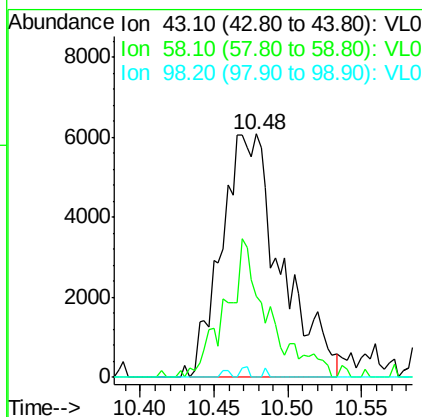
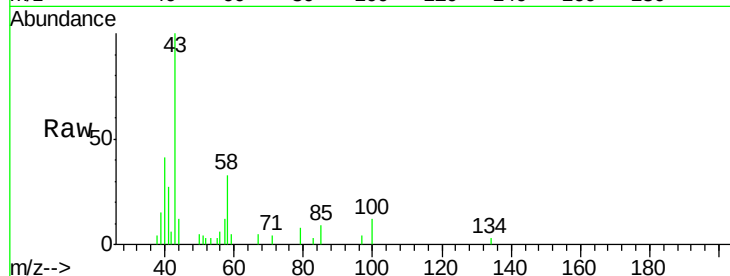
ClientSampleId :

MDL-AIR-3

Tot Ion:	43	Resp:	17065
Ion	Ratio	Lower	Upper
43	100		
58	0.0	36.2	54.4#
98	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



#52

Tetrachloroethene

Concen: 0.12 ppbv m

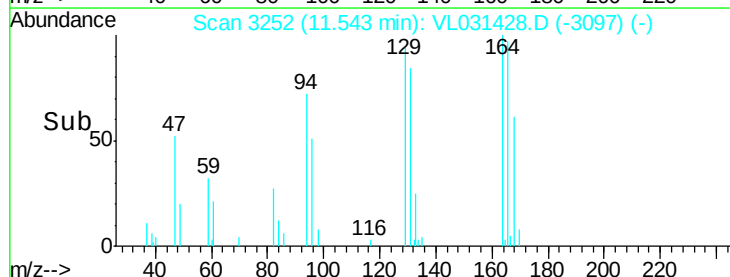
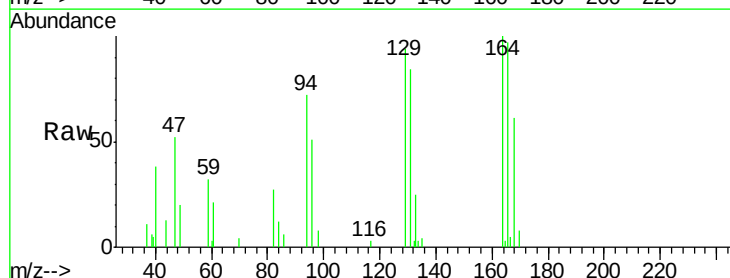
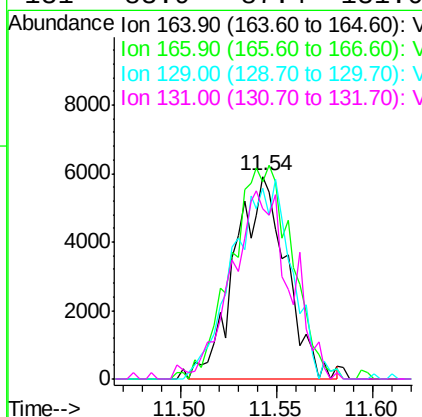
RT: 11.54 min Scan# 3252

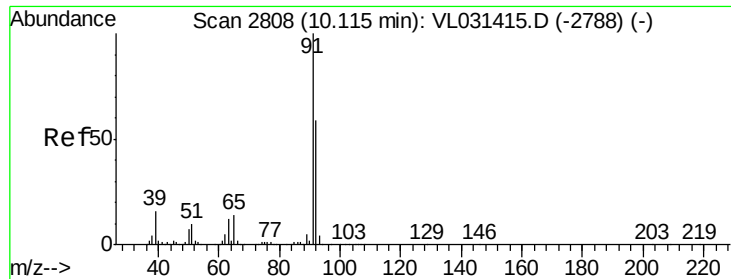
Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion:	164	Resp:	10959
Ion	Ratio	Lower	Upper
164	100		
166	96.9	100.2	150.2#
129	93.9	91.4	137.0
131	83.9	87.4	131.0#





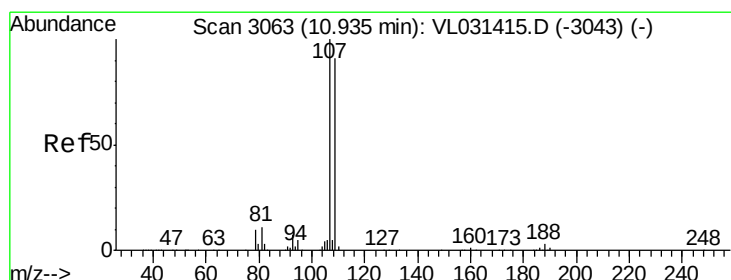
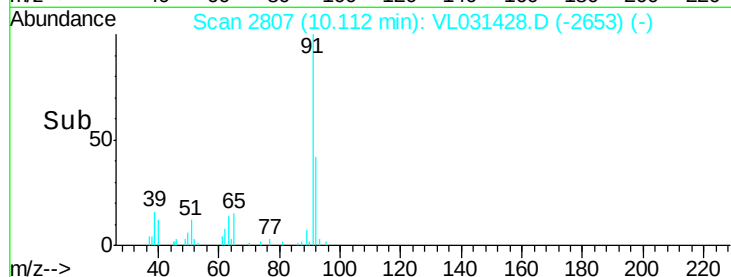
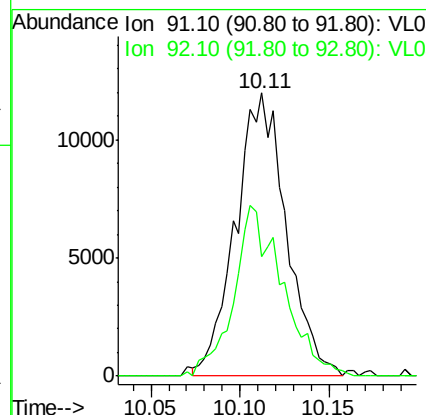
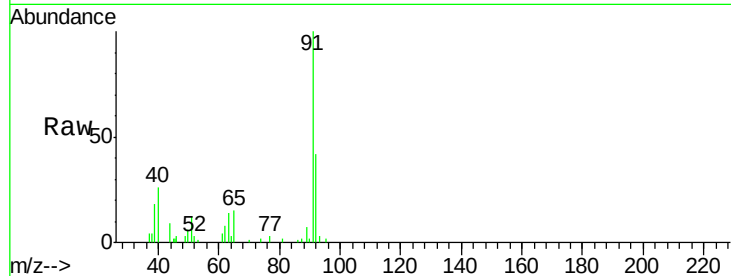
#53
Toluene
Concen: 0.08 ppbv
RT: 10.11 min Scan# 2807
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-3

Tot Ion: 91 Resp: 23654
Ion Ratio Lower Upper
91 100
92 58.1 47.8 71.6

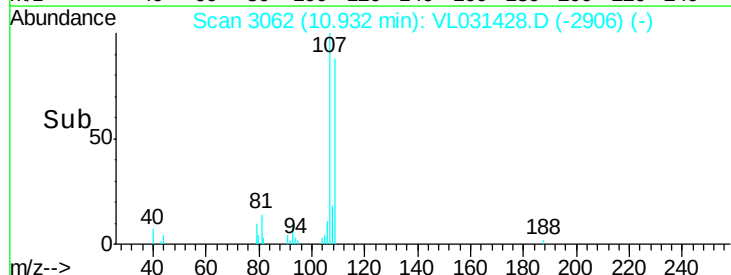
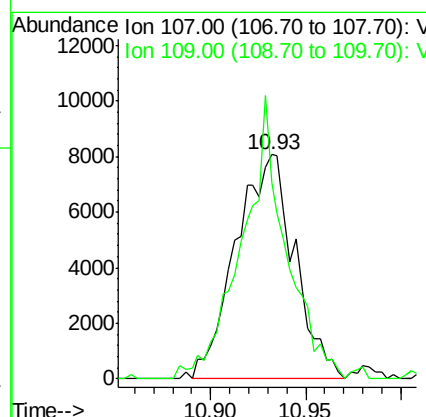
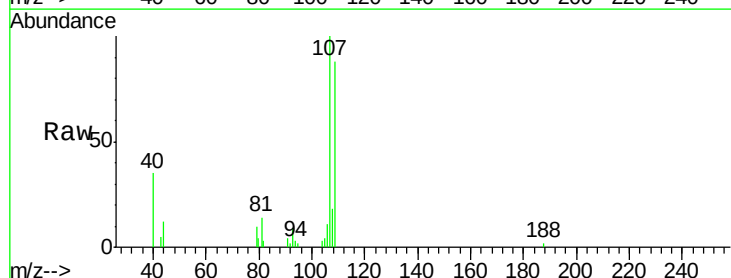
Manual Integrations
APPROVED

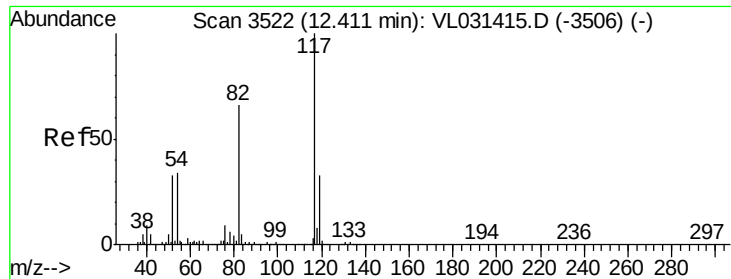
MMDadoda
1/24/2018 5:10:25 PM



#54
1,2-Dibromoethane
Concen: 0.11 ppbv m
RT: 10.93 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 107 Resp: 17415
Ion Ratio Lower Upper
107 100
109 87.9 75.5 113.3





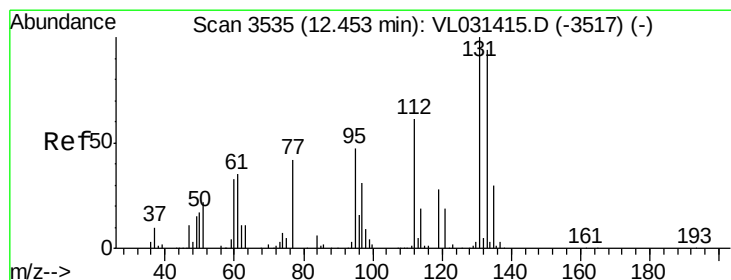
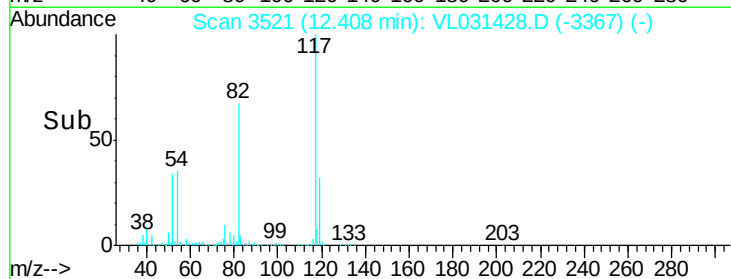
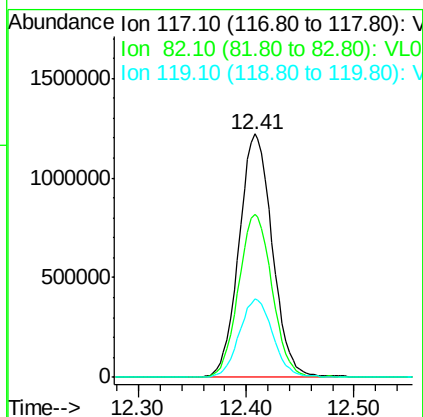
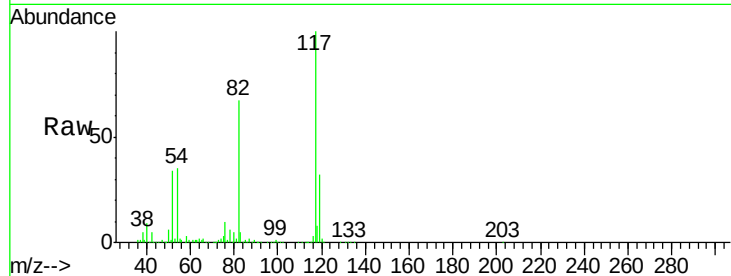
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.2	51.8	77.6
119	32.7	24.2	36.2

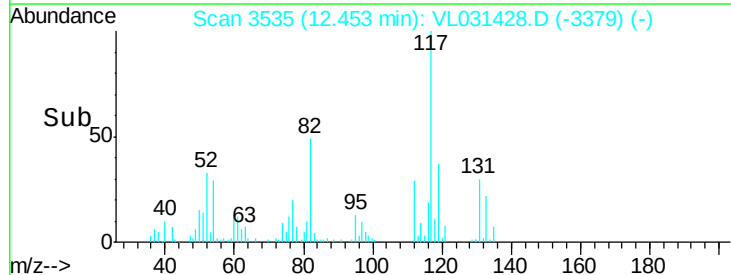
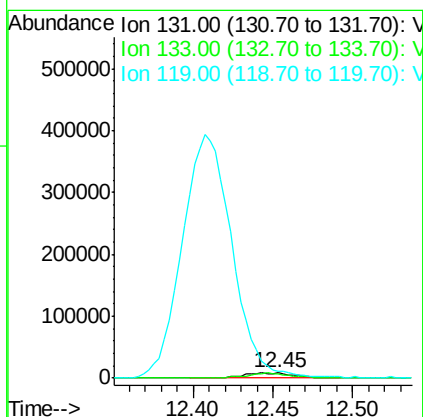
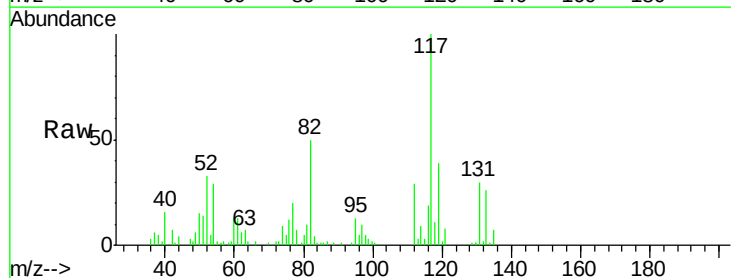
Manual Integrations
APPROVED

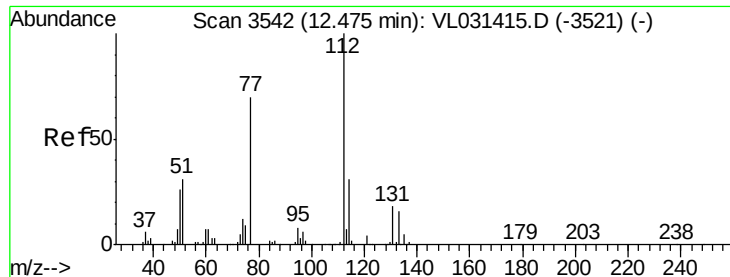
MMDadoda
1/24/2018 5:10:25 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.14 ppbv m
RT: 12.45 min Scan# 3535
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	91.9	76.9	115.3
119	0.0	47.7	71.5#





#57

Chlorobenzene

Concen: 0.13 ppbv m

RT: 12.47 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion:112 Resp: 30578

Ion Ratio Lower Upper

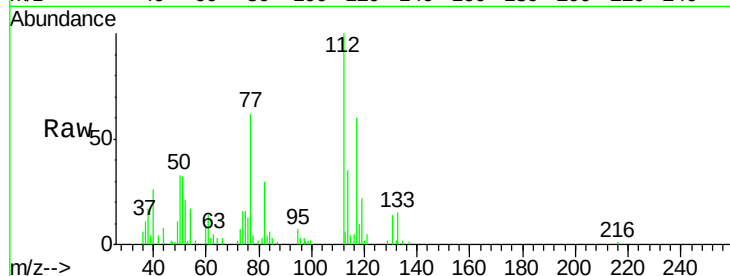
112 100

77 62.2 56.0 84.0

114 35.3 29.1 35.5

Manual Integrations
APPROVED

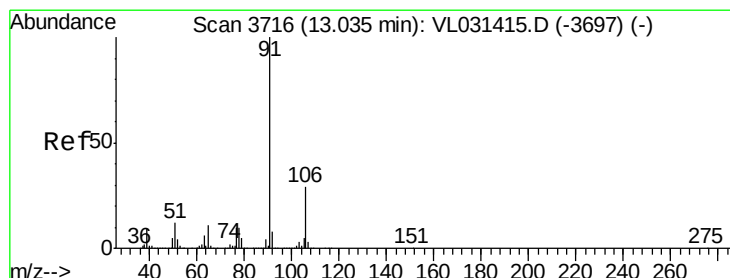
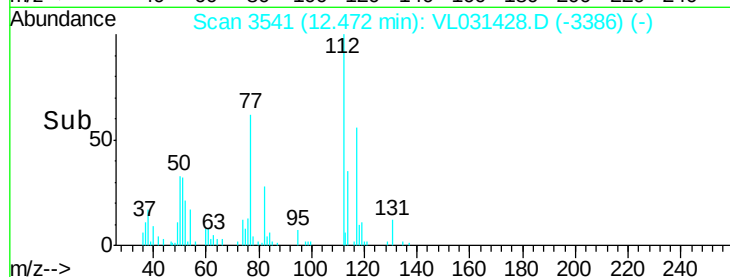
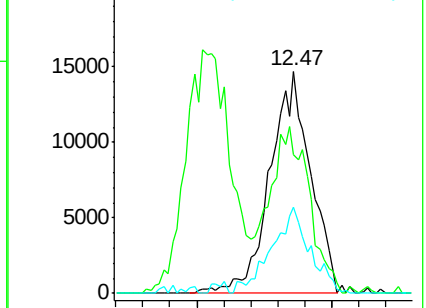
MMDadoda
1/24/2018 5:10:25 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.09 ppbv

RT: 13.03 min Scan# 3715

Delta R.T. -0.01 min

Lab File: VL031428.D

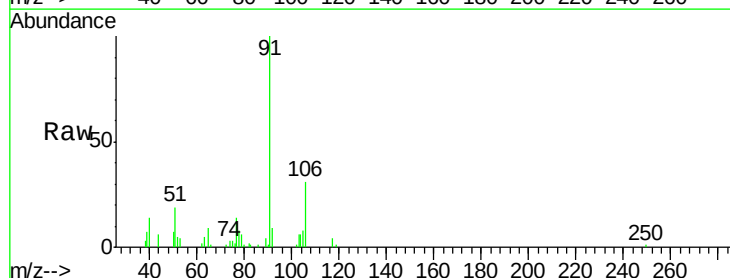
Acq: 22 Jan 2018 23:03

Tgt Ion: 91 Resp: 35648

Ion Ratio Lower Upper

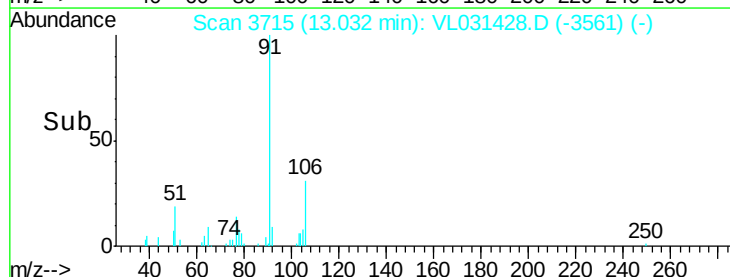
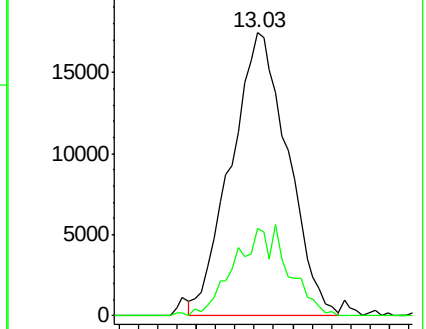
91 100

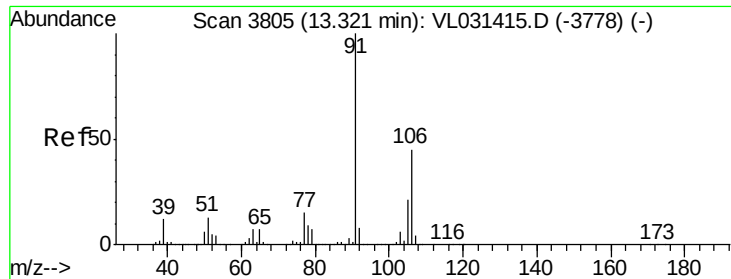
106 31.1 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





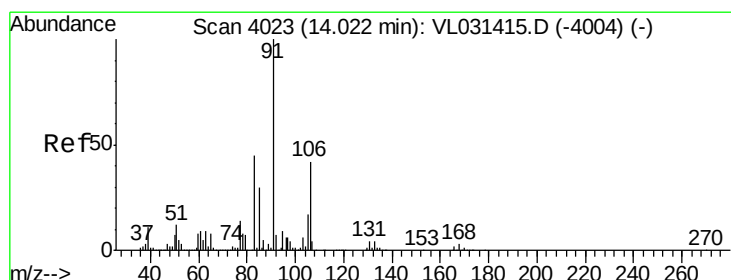
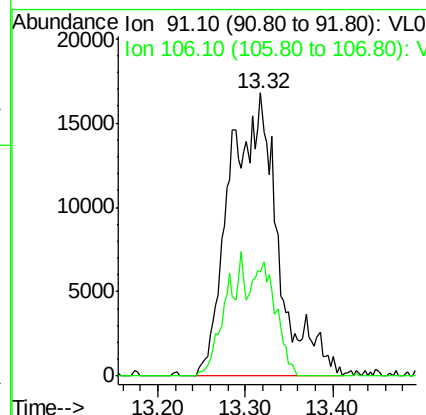
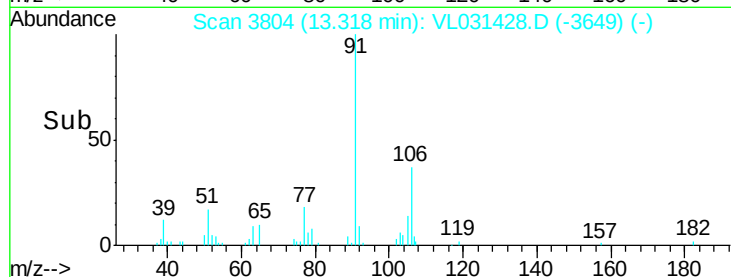
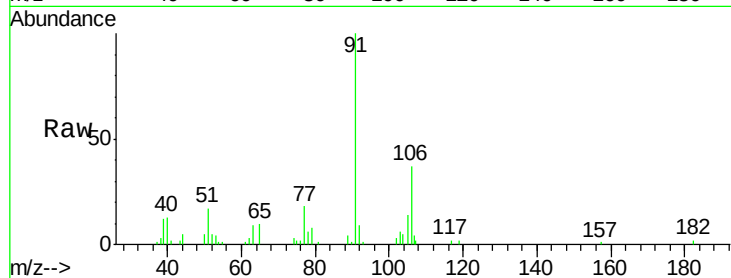
#59
m/p-Xylene
Concen: 0.19 ppbv m
RT: 13.32 min Scan# 3804
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-3

Tot Ion: 91 Resp: 64209
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#

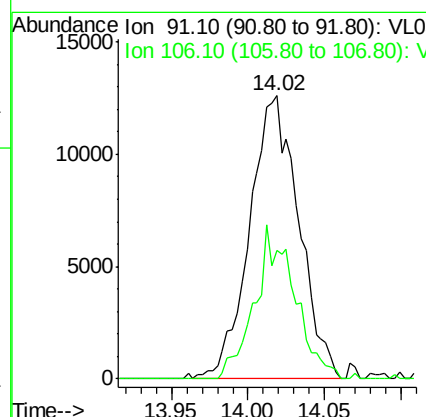
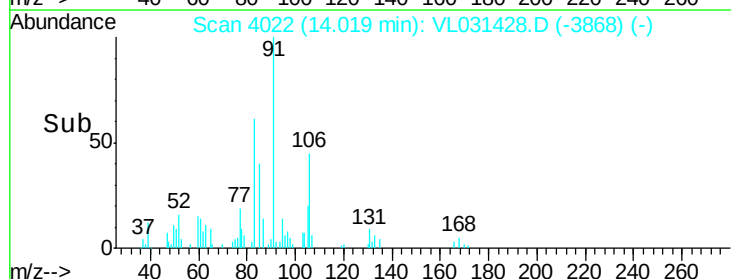
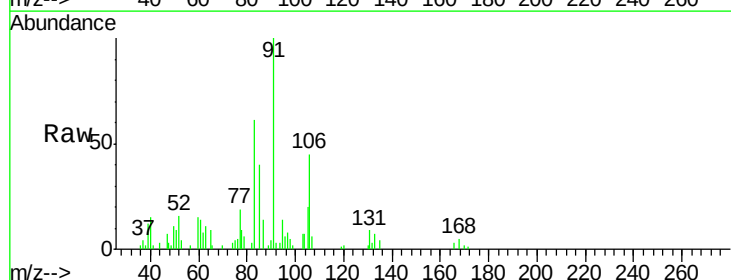
Manual Integrations
APPROVED

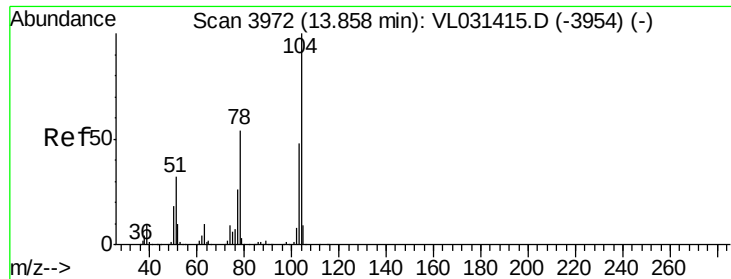
MMDadoda
1/24/2018 5:10:25 PM



#60
o-Xylene
Concen: 0.09 ppbv m
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 91 Resp: 28046
Ion Ratio Lower Upper
91 100
106 44.3 21.3 64.0





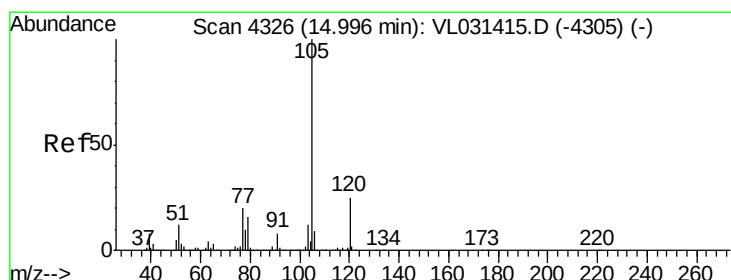
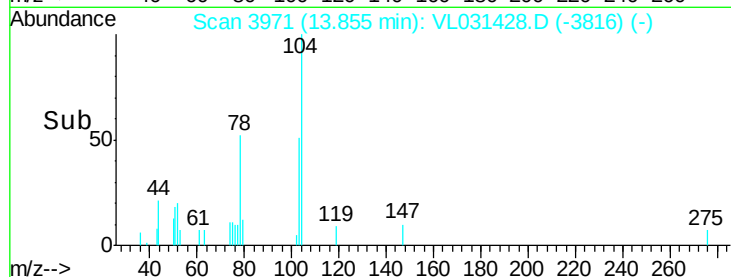
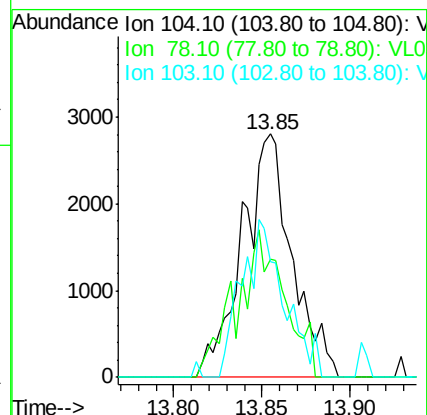
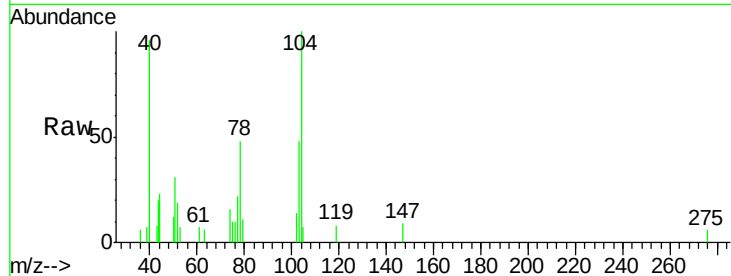
#61
Stvrene
Concen: 0.08 ppbv m
RT: 13.85 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.4	45.4	68.0
103	55.7	38.6	57.8

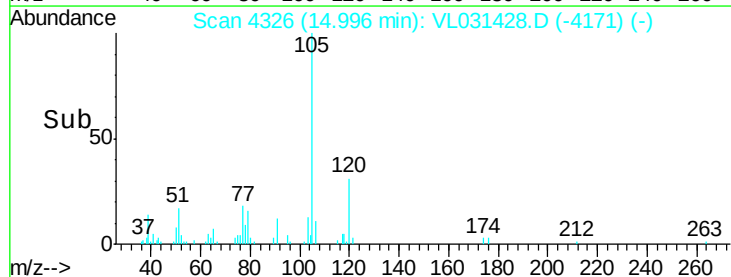
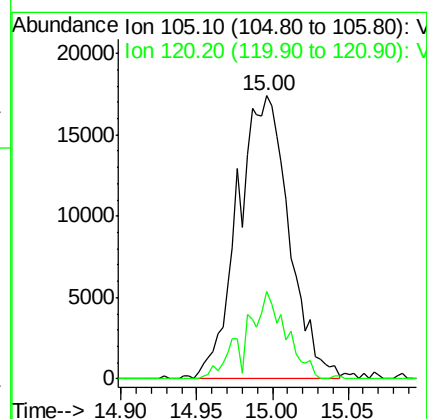
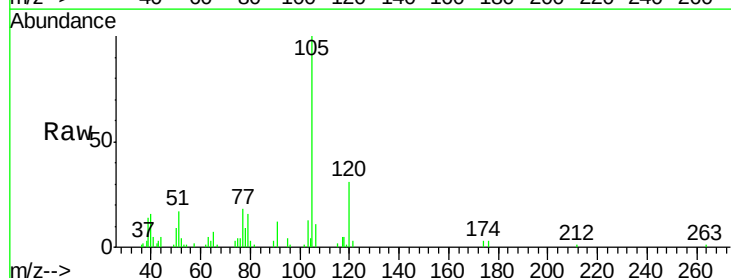
Manual Integrations
APPROVED

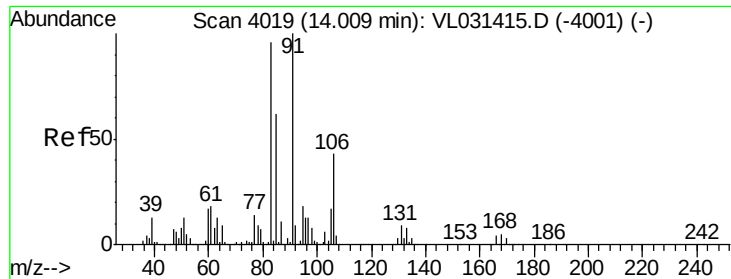
MMDadoda
1/24/2018 5:10:25 PM



#62
Isopropylbenzene
Concen: 0.10 ppbv m
RT: 15.00 min Scan# 4326
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.5	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.12 ppbv m

RT: 14.01 min Scan# 4019

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

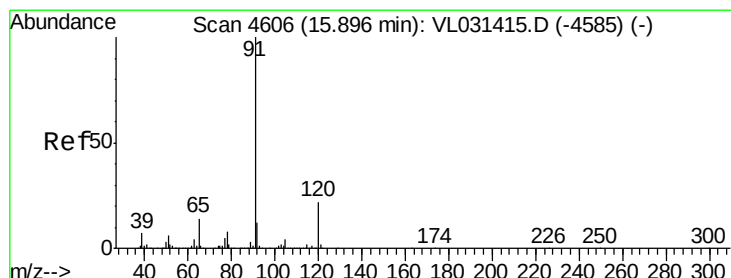
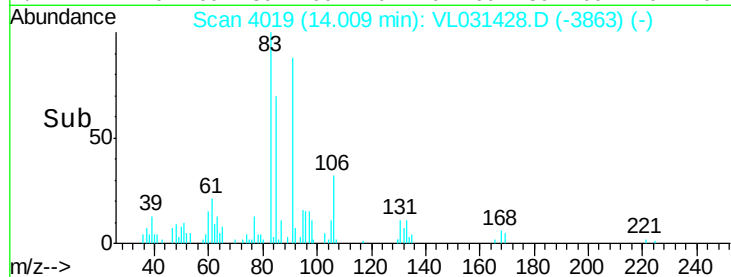
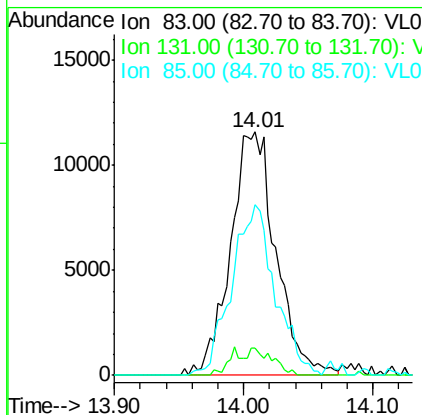
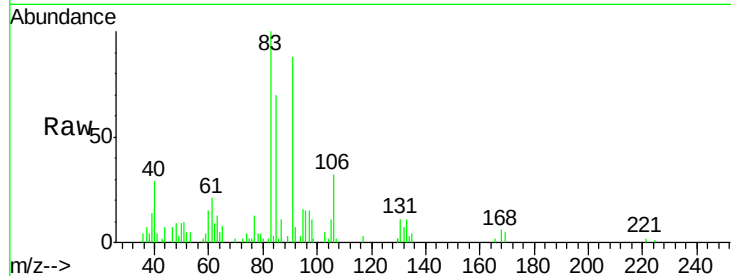
ClientSampleId :

MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	0.0	32.4	97.0#

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



#64

n-propylbenzene

Concen: 0.09 ppbv m

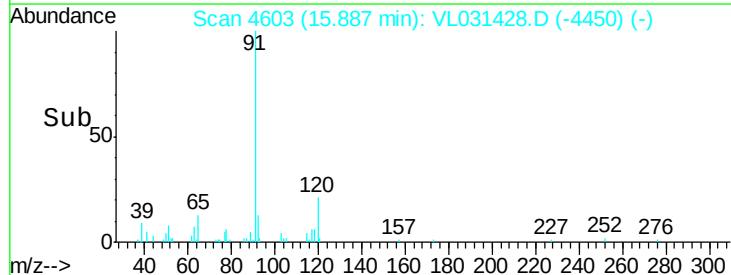
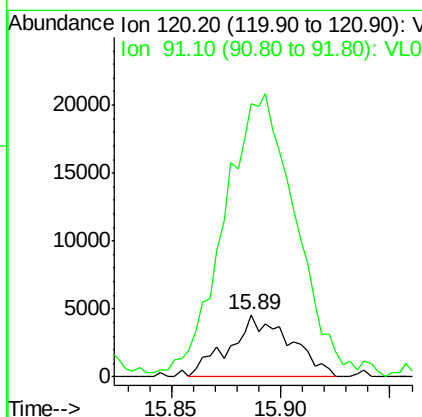
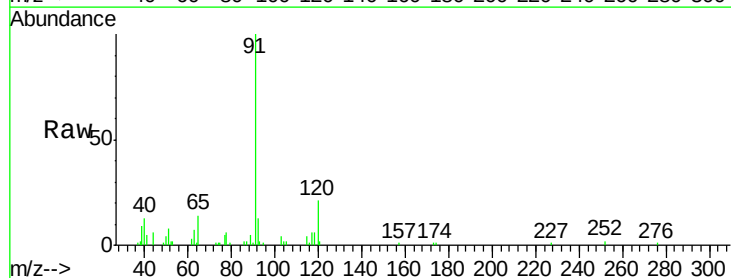
RT: 15.89 min Scan# 4603

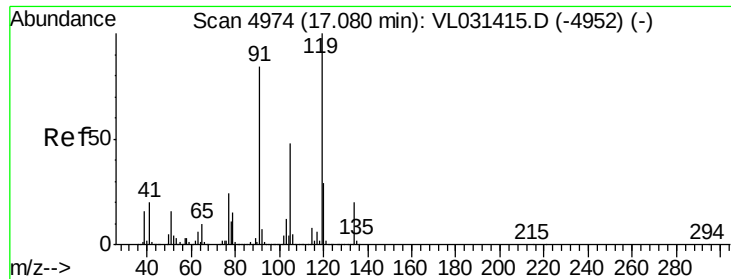
Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
120	100		
91	0.0	389.8	584.6#





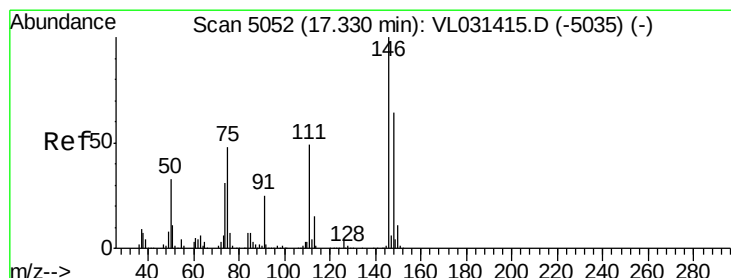
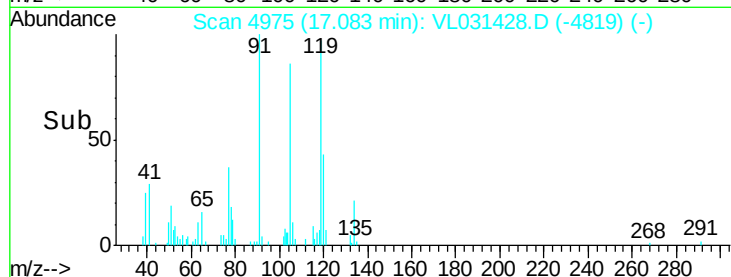
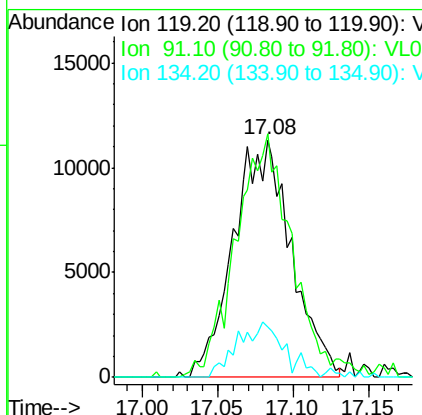
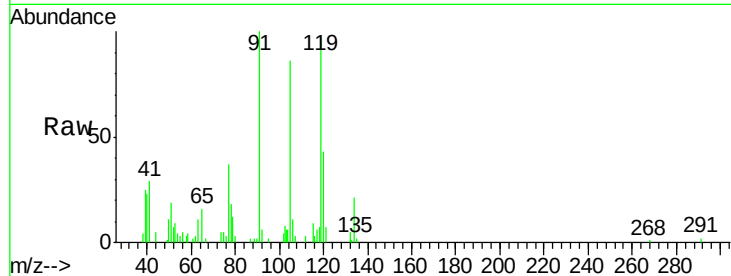
#65
 tert-Butylbenzene
 Concen: 0.08 ppbv m
 RT: 17.08 min Scan# 4975
 Delta R.T. -0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

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

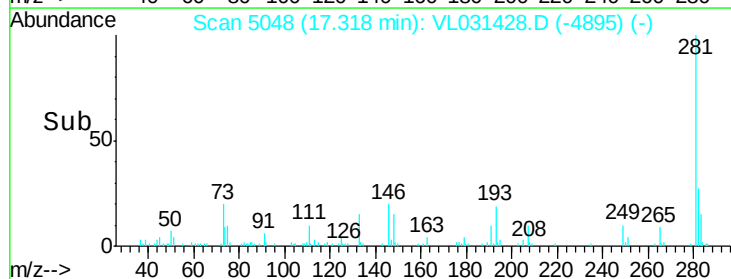
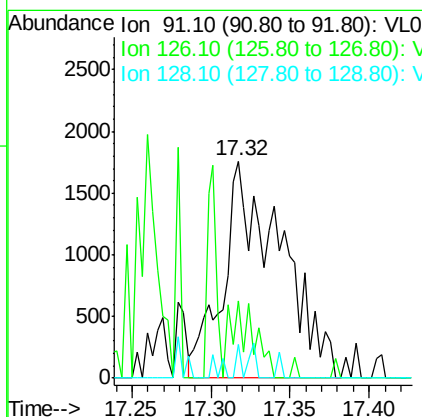
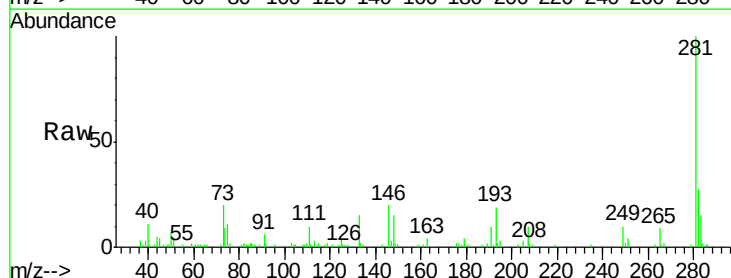
Manual Integrations
 APPROVED

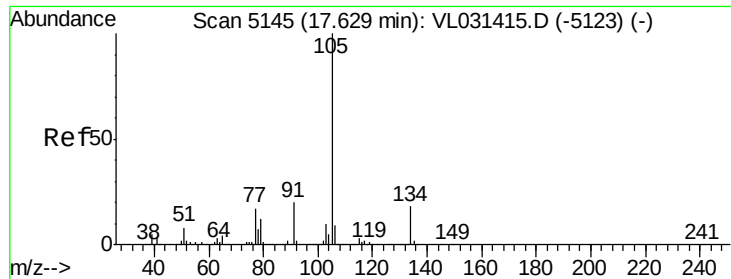
MMDadoda
 1/24/2018 5:10:25 PM



#66
 Benzyl Chloride
 Concen: 0.12 ppbv m
 RT: 17.32 min Scan# 5048
 Delta R.T. -0.01 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.8	20.8#
128	3.5	4.6	6.8#





#67

sec-Butylbenzene

Concen: 0.09 ppbv

RT: 17.62 min Scan# 5143

Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 105 Resp: 47483

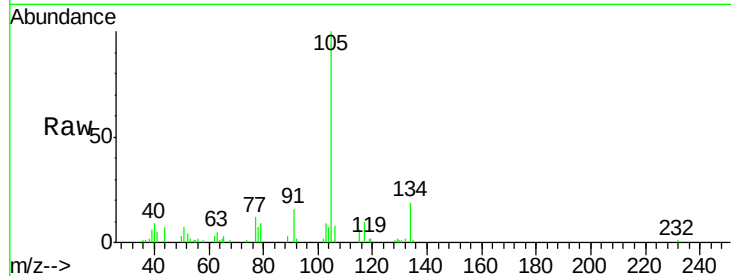
Ion Ratio Lower Upper

105 100

134 17.7 14.5 21.7

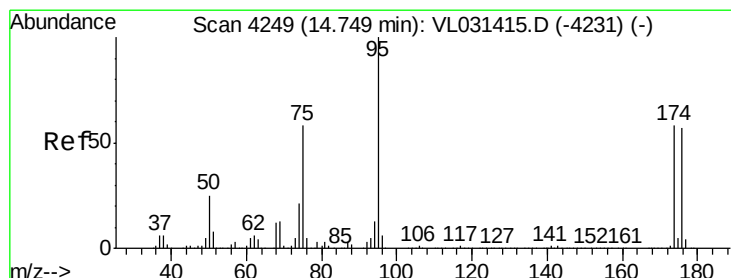
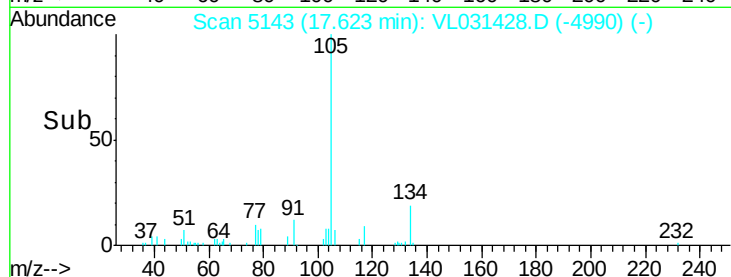
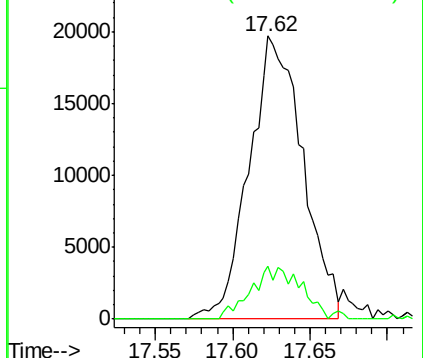
Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:25 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.23 ppbv

RT: 14.75 min Scan# 4248

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

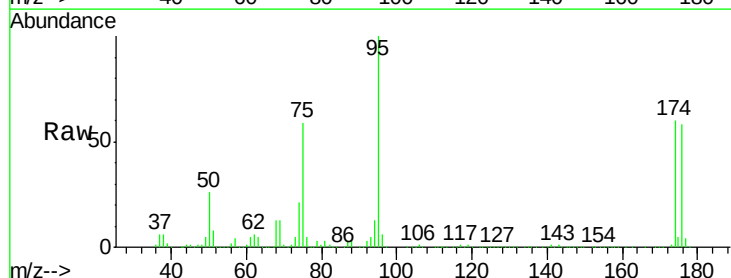
Tgt Ion: 95 Resp: 2154570

Ion Ratio Lower Upper

95 100

174 61.3 48.2 72.4

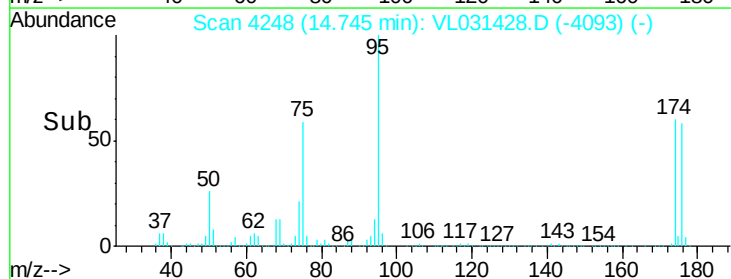
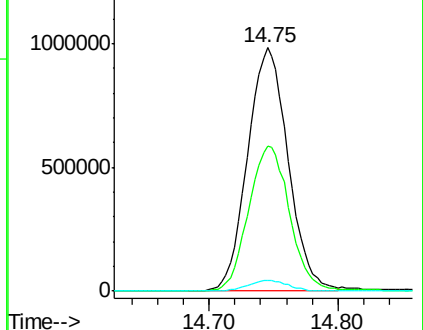
175 4.5 3.6 5.4

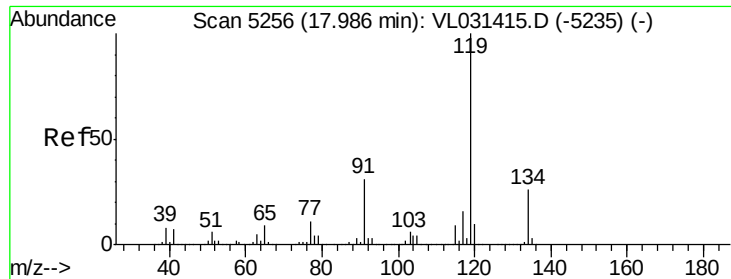


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





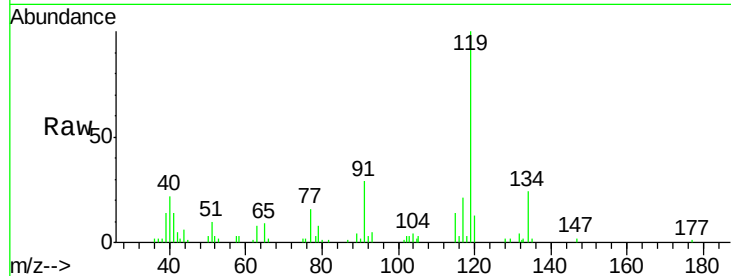
#69
 p-Isopropyltoluene
 Concen: 0.08 ppbv m
 RT: 17.98 min Scan# 5254
 Delta R.T. -0.01 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-3

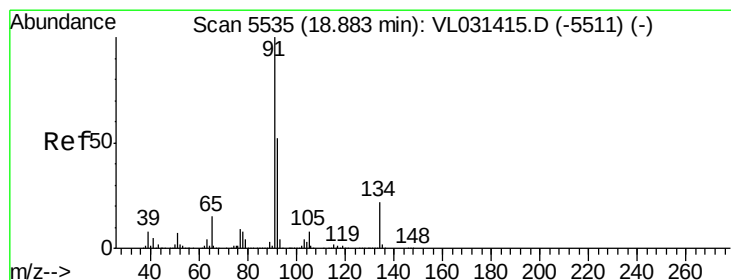
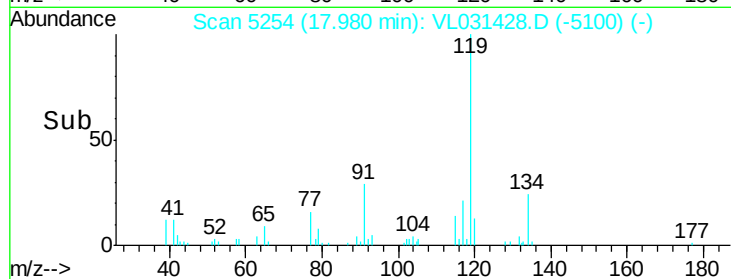
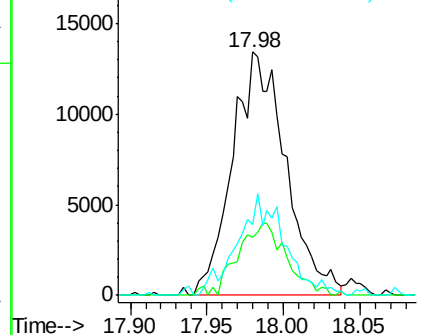
Tot Ion	Ratio	Resp	Lower	Upper
119	100	32511		
134	0.0	20.2	30.4#	
91	37.5	25.0	37.4#	

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:25 PM

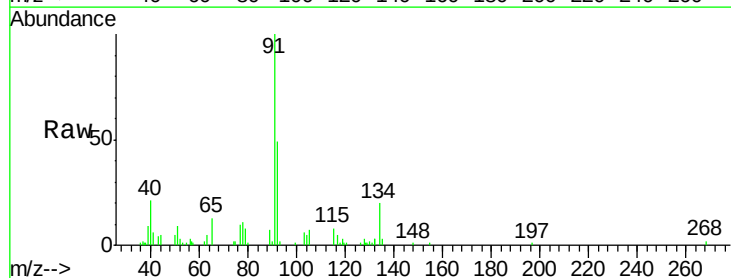


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

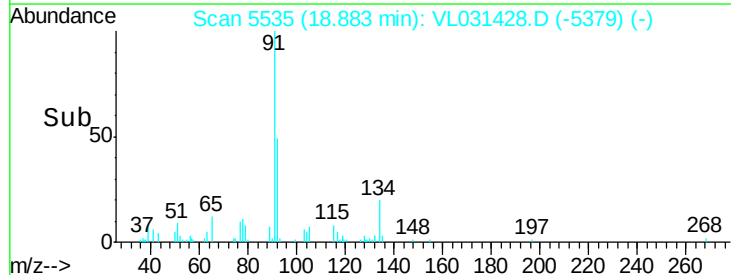
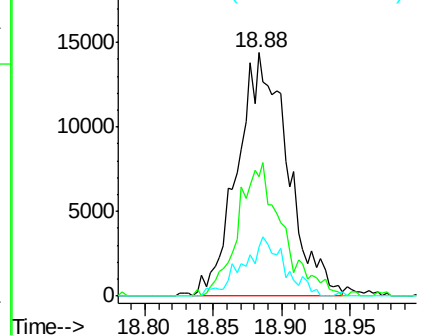


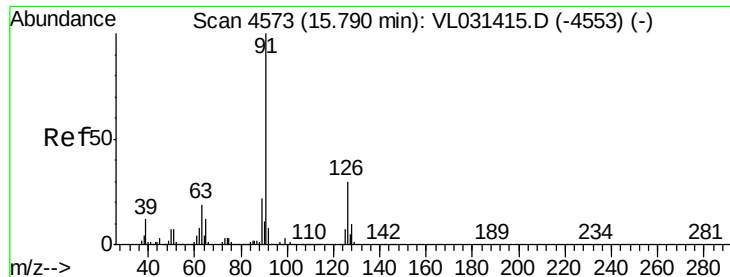
#70
 n-Butylbenzene
 Concen: 0.09 ppbv m
 RT: 18.88 min Scan# 5535
 Delta R.T. 0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	36753		
92	49.2	42.2	63.4	
134	20.3	17.4	26.2	



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





#71

2-Chlorotoluene

Concen: 0.09 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 91 Resp: 29528

Ion Ratio Lower Upper

91 100

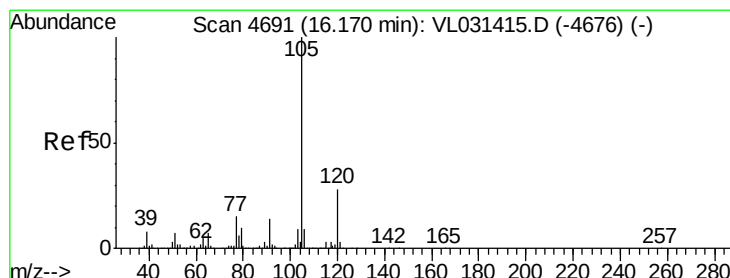
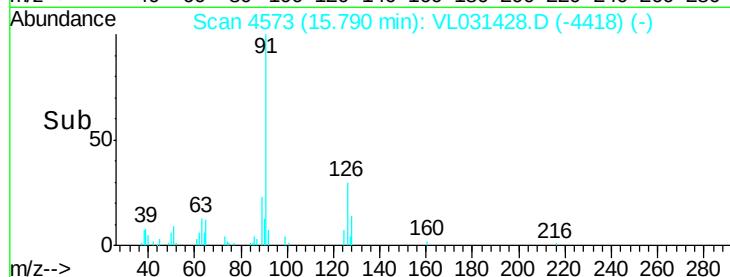
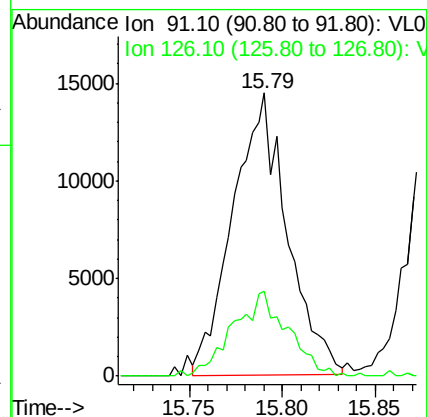
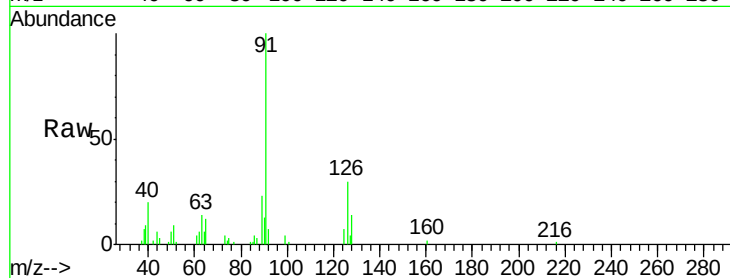
126 30.1 11.7 46.9

Manual Integrations

APPROVED

MMDadoda

1/24/2018 5:10:25 PM



#72

4-Ethyltoluene

Concen: 0.08 ppbv m

RT: 16.17 min Scan# 4691

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion: 105 Resp: 28231

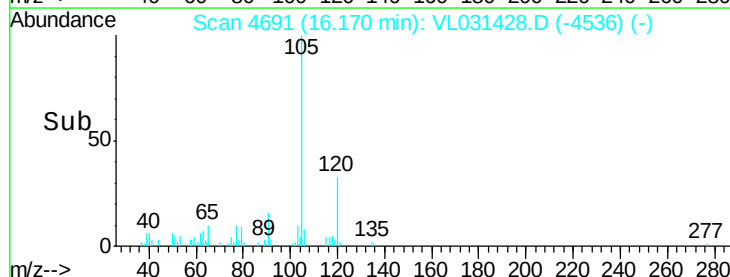
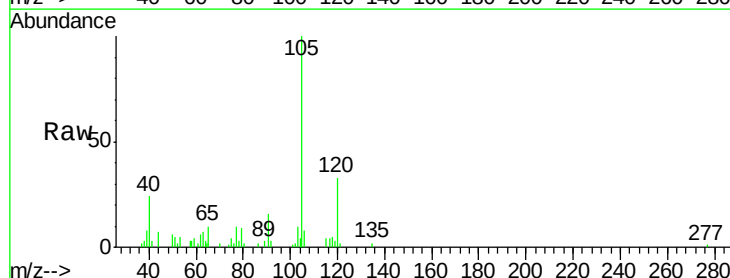
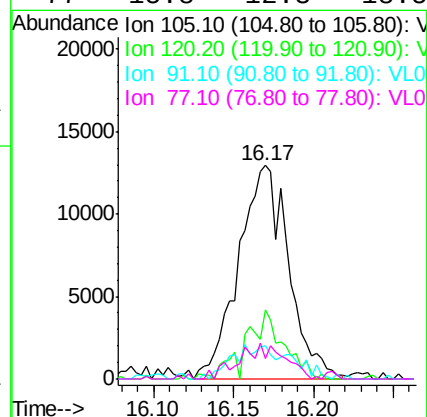
Ion Ratio Lower Upper

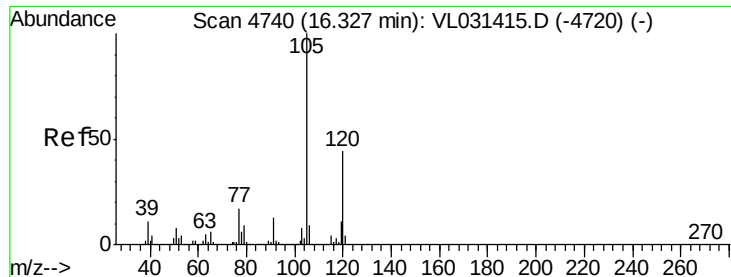
105 100

120 24.8 23.0 34.6

91 18.9 11.0 16.4#

77 15.8 12.3 18.5





#73

1,3,5-Trimethylbenzene

Concen: 0.08 ppbv m

RT: 16.33 min Scan# 4740

Delta R.T. -0.00 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-3

Tot Ion:105 Resp: 25722

Ion Ratio Lower Upper

105 100

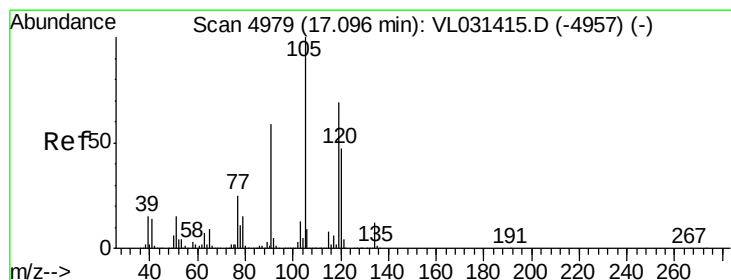
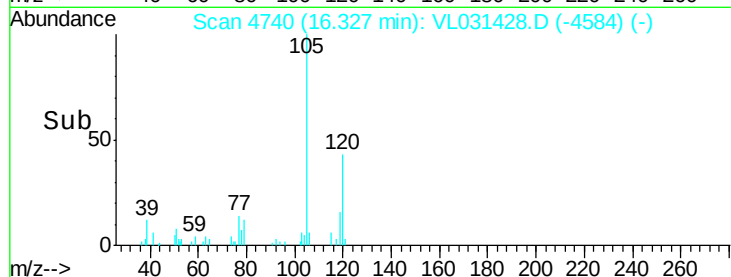
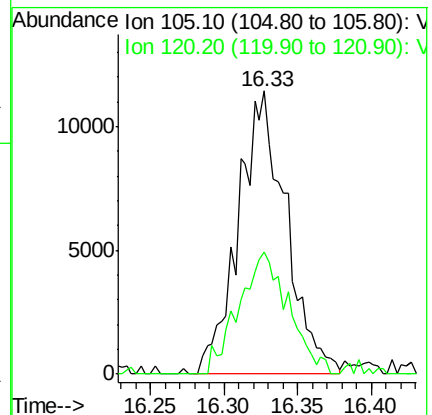
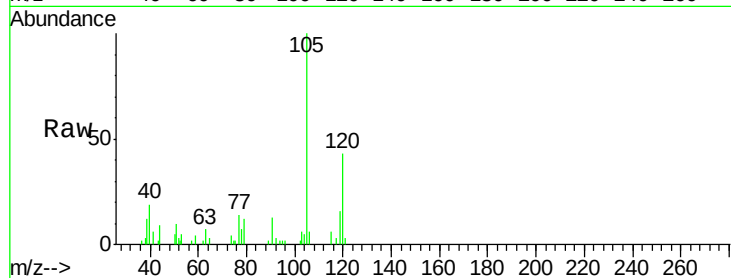
120 42.9 35.8 53.6

Manual Integrations

APPROVED

MMDadoda

1/24/2018 5:10:25 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.09 ppbv m

RT: 17.09 min Scan# 4977

Delta R.T. -0.01 min

Lab File: VL031428.D

Acq: 22 Jan 2018 23:03

Tgt Ion:105 Resp: 29045

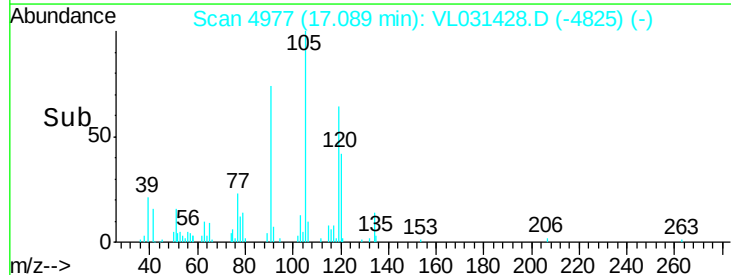
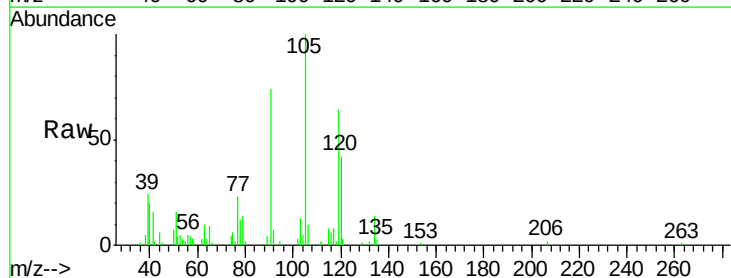
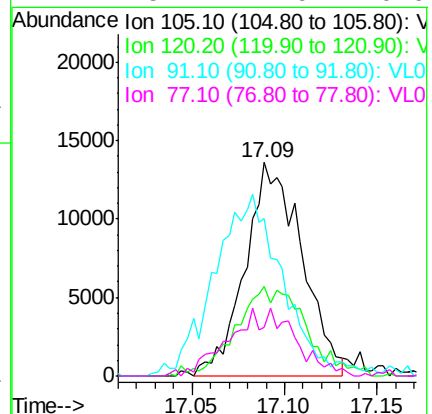
Ion Ratio Lower Upper

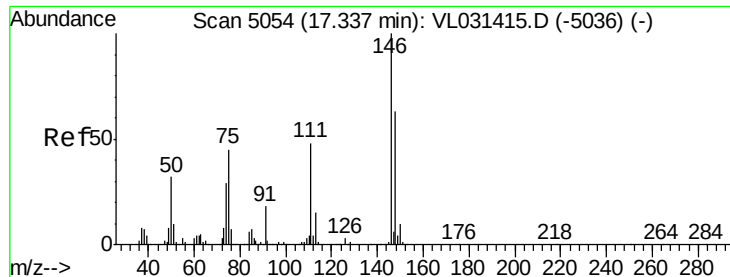
105 100

120 41.7 37.0 55.6

91 74.0 35.1 52.7#

77 23.1 17.9 26.9





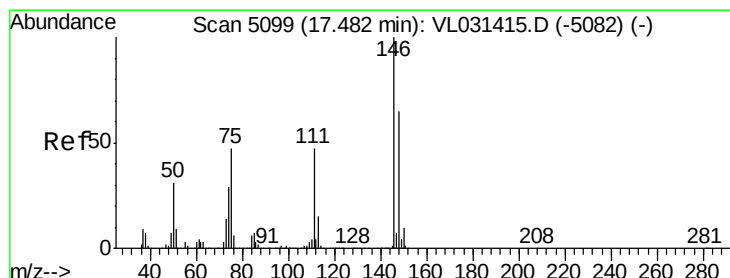
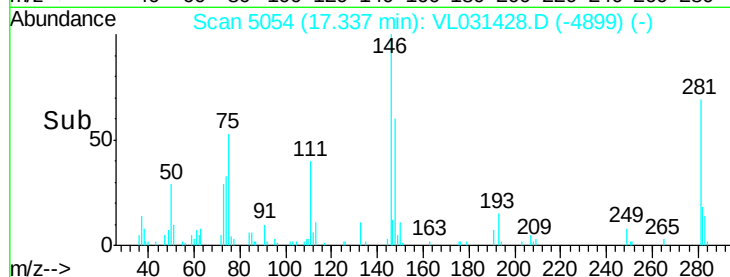
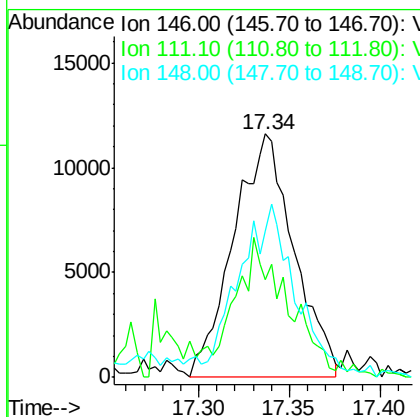
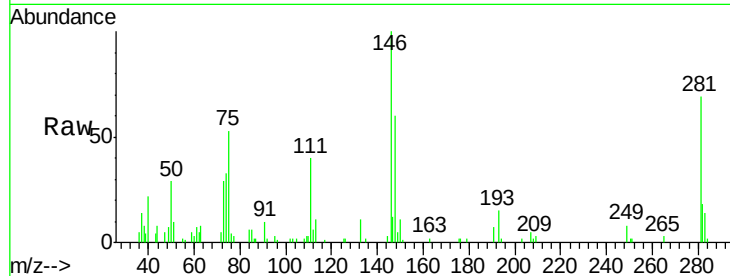
#75
 1,3-Dichlorobenzene
 Concen: 0.13 ppbv m
 RT: 17.34 min Scan# 5054
 Delta R.T. -0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.7	24.2	72.6
148	70.9	32.1	96.3

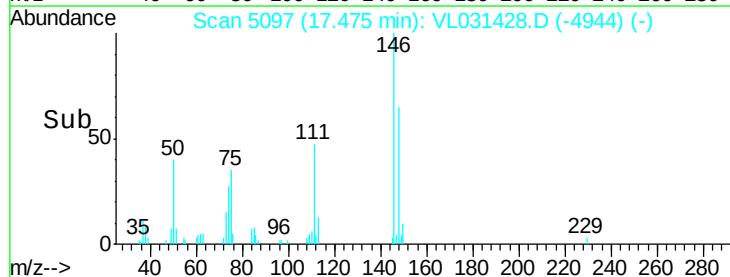
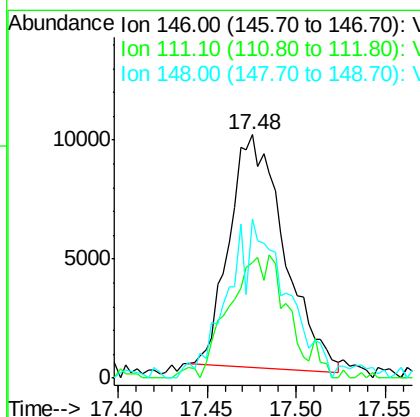
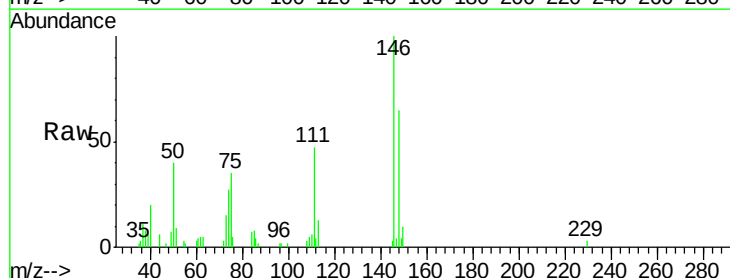
Manual Integrations
 APPROVED

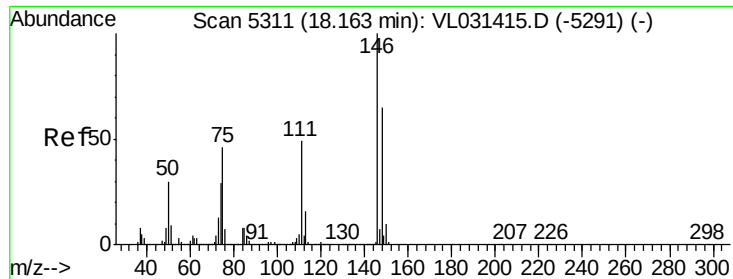
MMDadoda
 1/24/2018 5:10:25 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.10 ppbv
 RT: 17.48 min Scan# 5097
 Delta R.T. -0.01 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	58.0	23.3	69.9
148	77.4	32.4	97.2





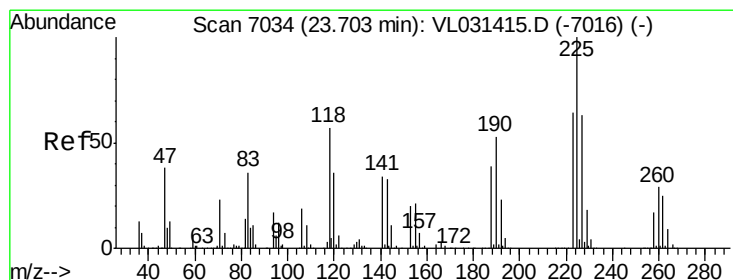
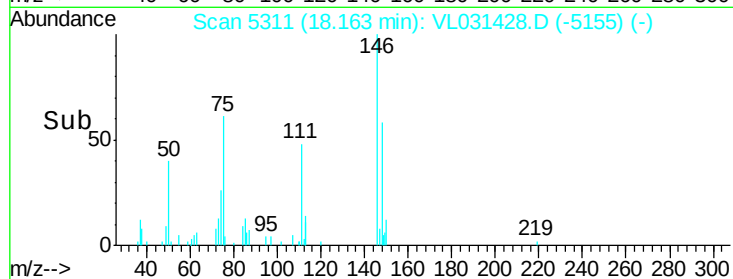
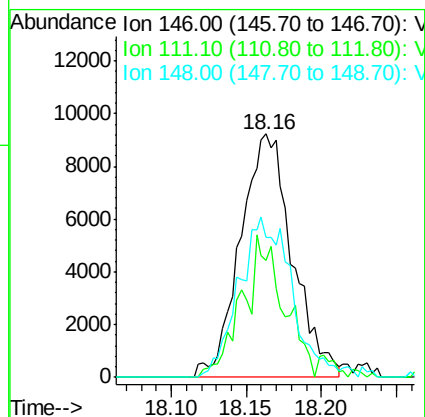
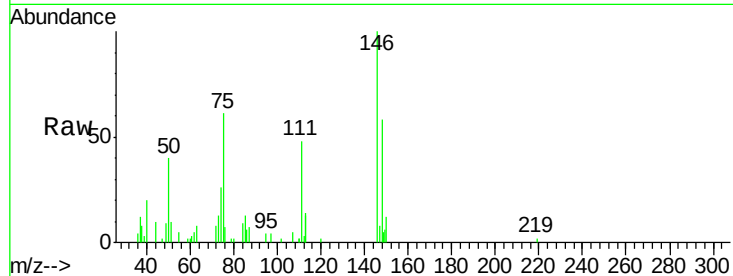
#77
 1,2-Dichlorobenzene
 Concen: 0.11 ppbv m
 RT: 18.16 min Scan# 5311
 Delta R.T. 0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.2	24.6	74.0
148	67.6	32.3	96.8

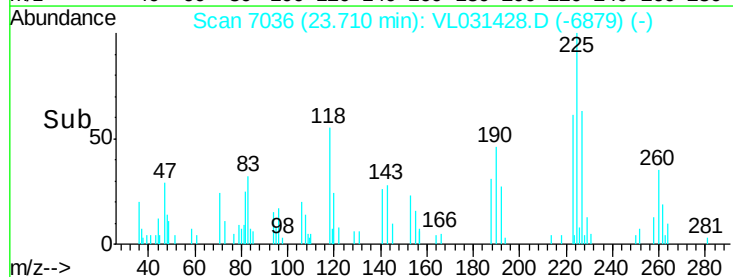
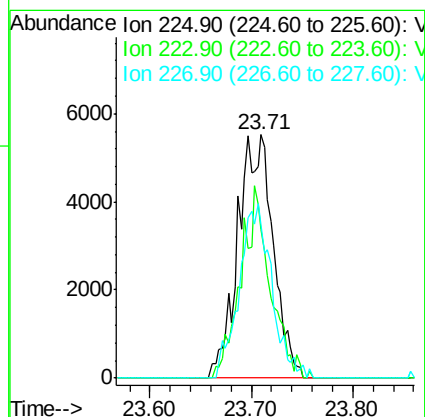
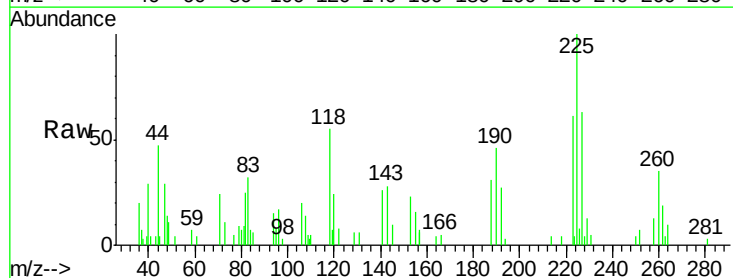
Manual Integrations
 APPROVED

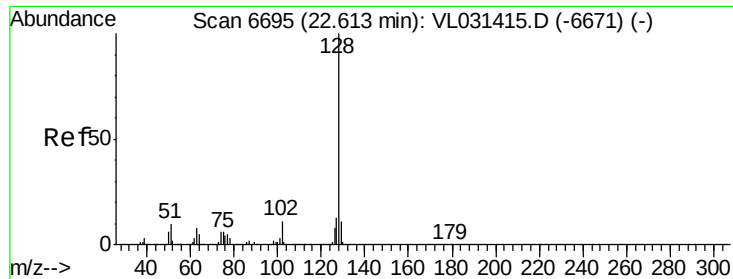
MMDadoda
 1/24/2018 5:10:25 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.19 ppbv m
 RT: 23.71 min Scan# 7036
 Delta R.T. 0.00 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

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





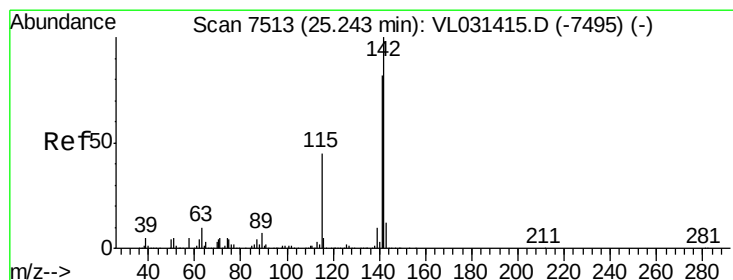
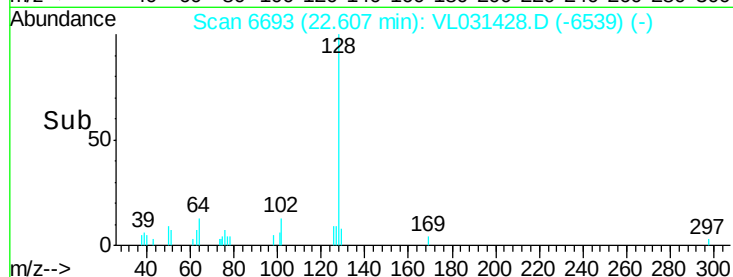
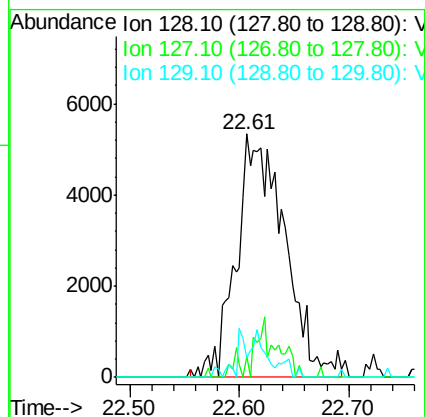
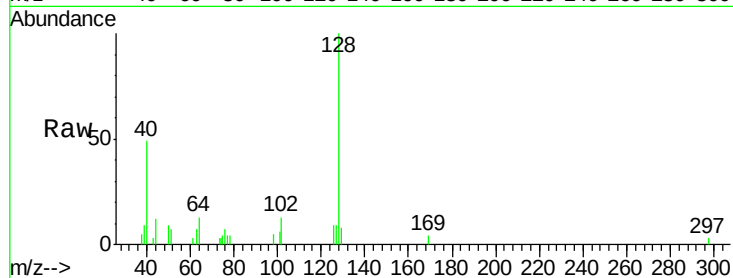
#79
Naphthalene
Concen: 0.08 ppbv m
RT: 22.61 min Scan# 6693
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
128	100		
127	8.7	10.6	16.0#
129	8.3	9.2	13.8#

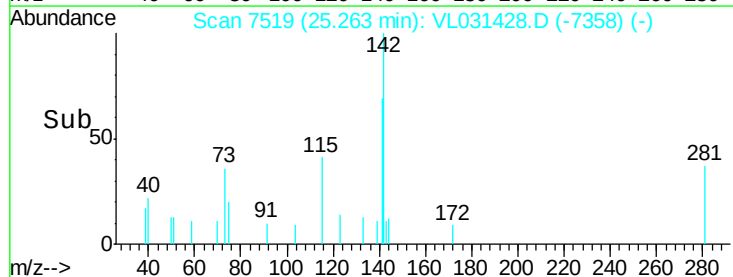
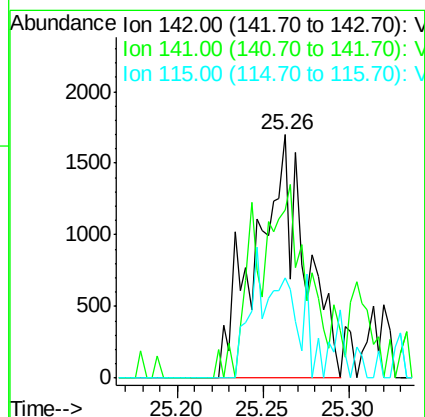
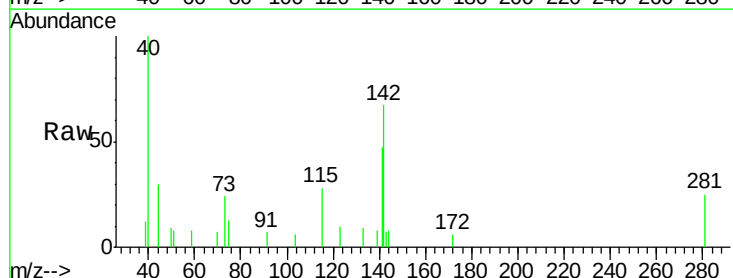
Manual Integrations
APPROVED

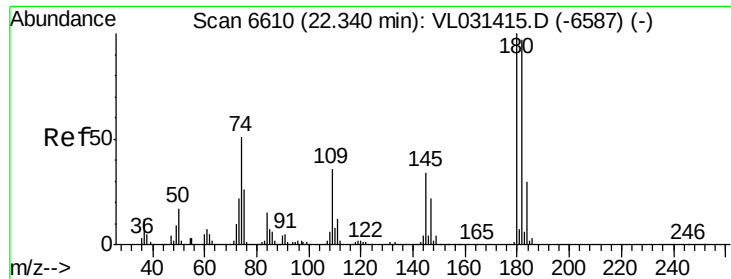
MMDadoda
1/24/2018 5:10:25 PM



#80
Naphthalene, 2-methyl-
Concen: 0.06 ppbv
RT: 25.26 min Scan# 7519
Delta R.T. 0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.2	68.7	103.1
115	51.4	36.3	54.5





#81
 1,2,4-Trichlorobenzene
 Concen: 0.10 ppbv m
 RT: 22.33 min Scan# 6608
 Delta R.T. -0.01 min
 Lab File: VL031428.D
 Acq: 22 Jan 2018 23:03

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.4#
184	13.0	24.2	36.4#

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:25 PM

