

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032231.D
 Acq On : 12 Jul 2018 20:07
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:13 PM

Quant Time: Jul 13 04:05:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 03:36:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	2010849	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4061838	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4637201	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3691105	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	188147	0.69	ppbv	95
3) Chlorodifluoromethane	3.07	51	126326	0.50	ppbv	98
4) Chloromethane	3.22	50	79284	0.58	ppbv	99
5) Vinyl Chloride	3.35	62	78680	0.58	ppbv #	88
6) Bromomethane	3.58	94	42936m	0.55	ppbv	
7) Chloroethane	3.66	64	24890	0.51	ppbv #	83
8) Dichlorotetrafluoroethane	3.27	85	194548	0.64	ppbv	99
9) Propene	3.09	41	54269	0.47	ppbv	98
10) Heptane	8.33	43	130055	0.39	ppbv	96
11) Trichlorofluoromethane	4.07	101	156761	0.55	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.62	101	98673	0.52	ppbv	97
13) Ethanol	3.72	45	19057m	0.55	ppbv	
14) Bromoethene	3.85	108	45332	0.51	ppbv	100
15) Acetone	3.97	43	134853	0.58	ppbv	95
16) 1,3-Butadiene	3.42	39	62256	0.54	ppbv	95
17) tert-Butyl alcohol	4.45	59	55413	0.39	ppbv #	91
18) 1,1-Dichloroethene	4.42	96	44317	0.50	ppbv	96
19) Isopropyl Alcohol	4.11	45	85661	0.45	ppbv #	91
20) Methylene Chloride	4.48	84	46165	0.54	ppbv	96
21) Allyl Chloride	4.54	41	68871	0.44	ppbv	98
22) trans-1,2-Dichloroethene	5.04	96	37687	0.40	ppbv	88
23) Vinyl Acetate	5.23	43	174678	0.41	ppbv #	98
24) 1,1-Dichloroethane	5.16	63	134951	0.49	ppbv	96
25) Ethyl Acetate	5.85	43	234047	0.48	ppbv	98
26) Hexane	5.86	57	106253	0.47	ppbv	95
27) Carbon Disulfide	4.69	76	85705	0.39	ppbv #	84
28) Methyl tert-Butyl Ether	5.20	73	148871	0.38	ppbv	97
29) Chloroform	5.92	83	174566	0.53	ppbv	99
30) Cyclohexane	7.33	84	77699m	0.36	ppbv	
31) cis-1,2-Dichloroethene	5.72	61	97539	0.43	ppbv	92
32) 1,1,1-Trichloroethane	6.70	97	150210	0.43	ppbv	98
34) 2-Butanone	5.41	43	150351	0.58	ppbv	100
35) Carbon Tetrachloride	7.22	117	146804m	0.52	ppbv	
36) Benzene	7.09	78	207676	0.52	ppbv	97
37) 1,2-Dichloroethane	6.49	62	123269	0.62	ppbv	99
38) Trichloroethene	8.05	130	77000m	0.51	ppbv	
39) 1,2-Dichloropropane	7.82	63	81936	0.53	ppbv	89
40) 1,4-Dioxane	8.09	88	32893m	0.56	ppbv	
41) Tetrahydrofuran	6.25	42	79120m	0.51	ppbv	
42) Bromodichloromethane	8.00	83	161850	0.53	ppbv	97
43) Methyl Methacrylate	8.23	69	71898	0.44	ppbv	98

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Quant Time: Jul 13 04:05:13 2018
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.08	57	357281	0.52	ppbv	98
45) t-1,3-Dichloropropene	9.50	75	73884	0.37	ppbv #	87
46) cis-1,3-Dichloropropene	8.92	75	115620m	0.47	ppbv	
47) 1,1,2-Trichloroethane	9.71	97	100315	0.62	ppbv #	89
48) Dibromochloromethane	10.55	129	129521	0.52	ppbv	98
49) Bromoform	13.29	173	101965m	0.49	ppbv	
50) 4-Methyl-2-Pentanone	8.98	43	243807	0.57	ppbv	100
51) 2-Hexanone	10.38	43	198112m	0.56	ppbv	
52) Tetrachloroethene	11.46	164	79477	0.56	ppbv	84
53) Toluene	10.04	91	240367	0.51	ppbv	99
54) 1,2-Dibromoethane	10.85	107	140906	0.58	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.38	131	112693	0.55	ppbv #	1
57) Chlorobenzene	12.40	112	229142m	0.57	ppbv	
58) Ethyl Benzene	12.96	91	340597	0.46	ppbv	95
59) m/p-Xylene	13.24	91	597373m	1.00	ppbv	
60) o-Xylene	13.94	91	296598	0.50	ppbv	98
61) Styrene	13.78	104	193290	0.40	ppbv	99
62) Isopropylbenzene	14.92	105	418893	0.46	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.93	83	250816	0.54	ppbv	100
64) n-propylbenzene	15.81	120	102344m	0.43	ppbv	
65) tert-Butylbenzene	17.00	119	349431	0.44	ppbv	96
66) Benzyl Chloride	17.25	91	119799	0.25	ppbv	98
67) sec-Butylbenzene	17.56	105	493564	0.42	ppbv	99
69) p-Isopropyltoluene	17.91	119	376026	0.40	ppbv	98
70) n-Butylbenzene	18.81	91	418826	0.43	ppbv	95
71) 2-Chlorotoluene	15.71	91	316839	0.45	ppbv	98
72) 4-Ethyltoluene	16.09	105	303994	0.40	ppbv	97
73) 1,3,5-Trimethylbenzene	16.25	105	282240	0.39	ppbv	100
74) 1,2,4-Trimethylbenzene	17.02	105	312953	0.43	ppbv	97
75) 1,3-Dichlorobenzene	17.26	146	196693	0.48	ppbv	98
76) 1,4-Dichlorobenzene	17.40	146	181625	0.44	ppbv	98
77) 1,2-Dichlorobenzene	18.09	146	195114m	0.48	ppbv	
78) Hexachloro-1,3-Butadiene	23.63	225	61892m	0.44	ppbv	
79) Naphthalene	22.53	128	132289m	0.20	ppbv	
80) Naphthalene, 2-methyl-	25.20	142	8920	0.04	ppbv	84
81) 1,2,4-Trichlorobenzene	22.25	180	78098m	0.27	ppbv	

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

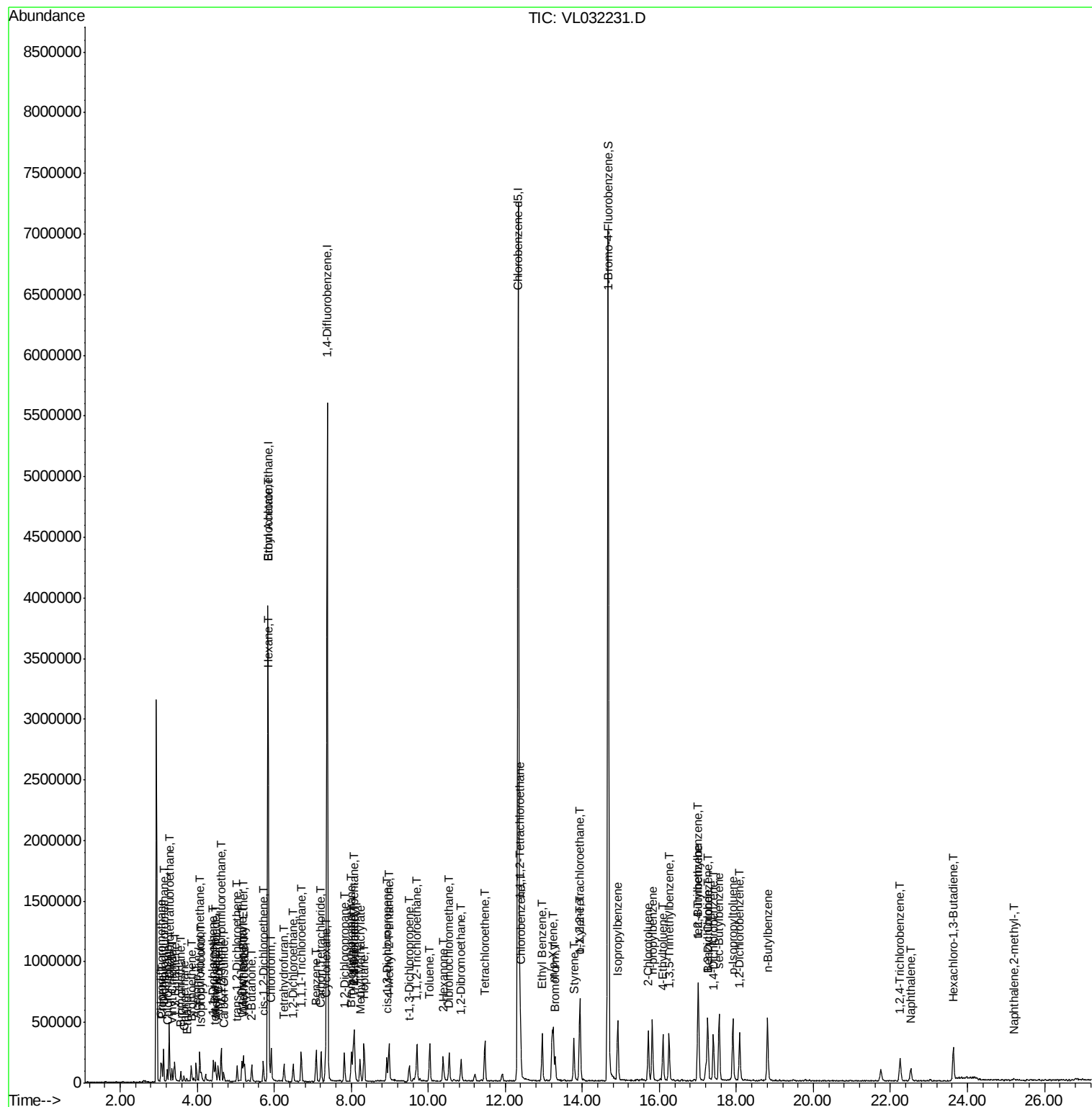
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071218\
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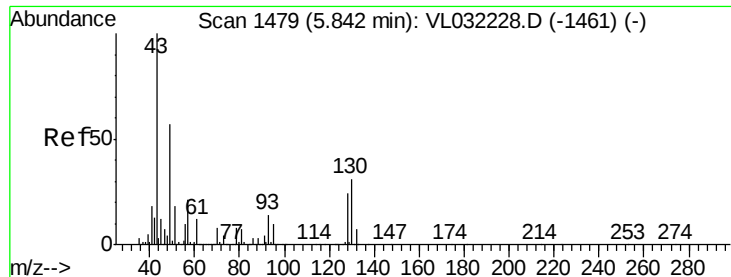
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 13 03:36:40 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 2010849

Ion Ratio Lower Upper

49 100

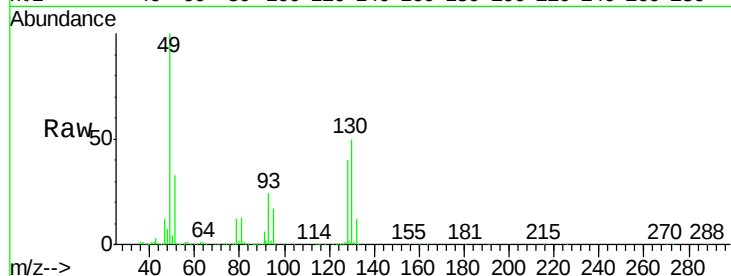
128 41.7 20.9 62.8

130 52.3 27.0 81.0

Manual Integrations
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7/13/2018 5:22:13 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

1500000

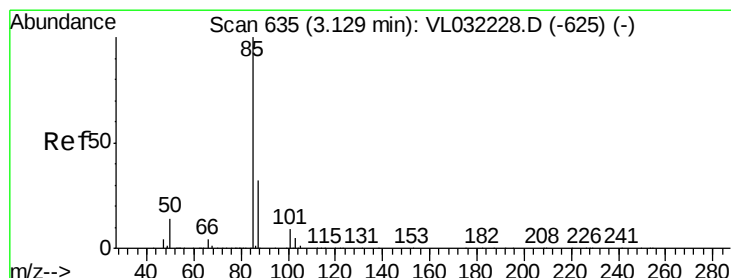
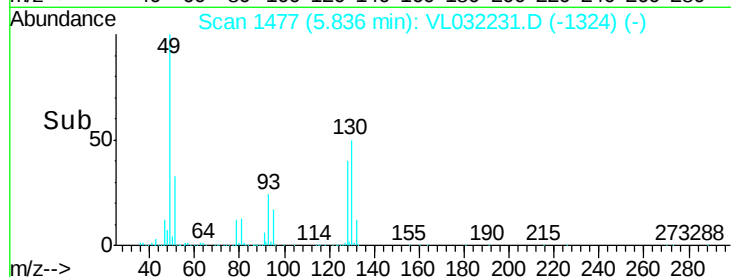
1000000

500000

0

5.75 5.80 5.85 5.90

Time-->



#2

Dichlorodifluoromethane

Concen: 0.69 ppbv

RT: 3.13 min Scan# 634

Delta R.T. -0.00 min

Lab File: VL032231.D

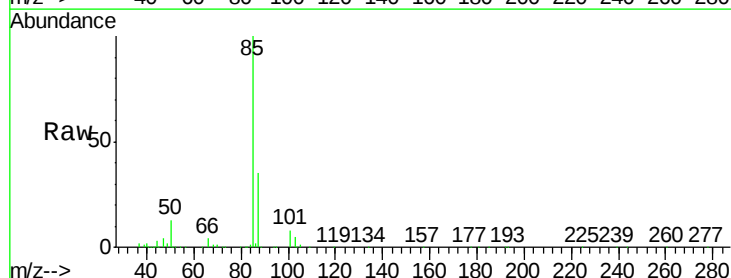
Acq: 12 Jul 2018 20:07

Tgt Ion: 85 Resp: 188147

Ion Ratio Lower Upper

85 100

87 35.2 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

150000

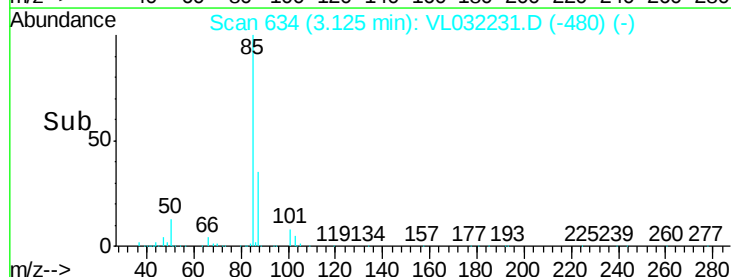
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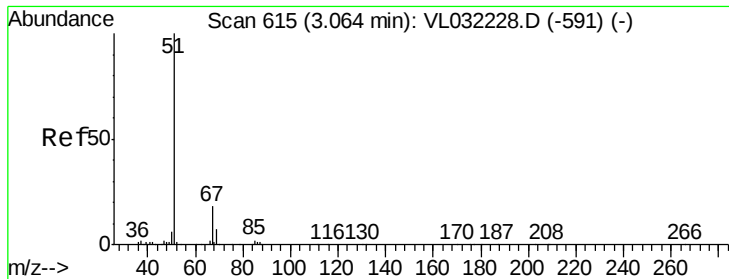
50000

0

3.10 3.15

Time-->





#3

Chlorodifluoromethane

Concen: 0.50 ppbv

RT: 3.07 min Scan# 616

Delta R.T. 0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 126326

Ion Ratio Lower Upper

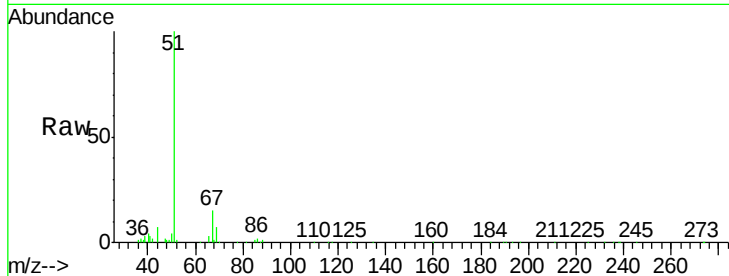
51 100

67 19.0 14.6 22.0

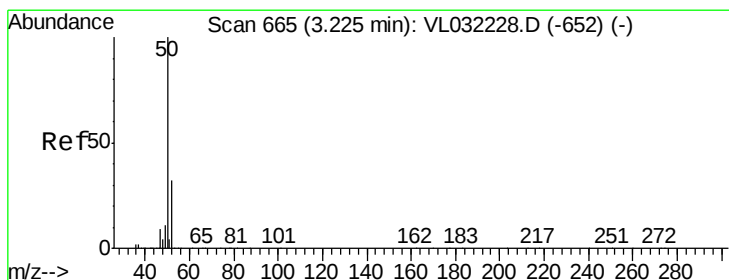
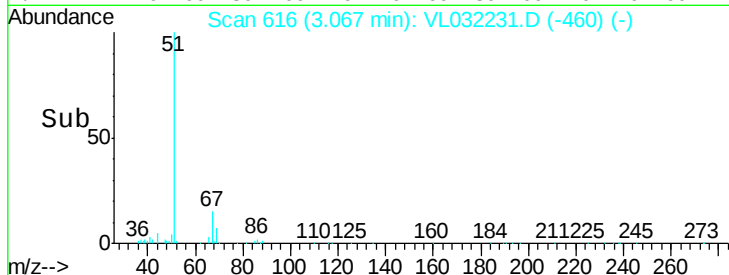
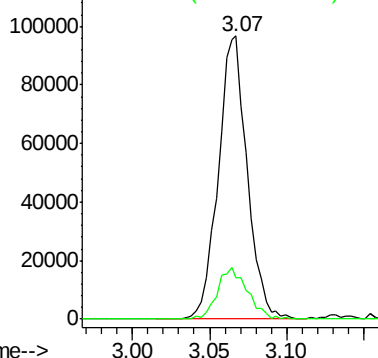
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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.58 ppbv

RT: 3.22 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL032231.D

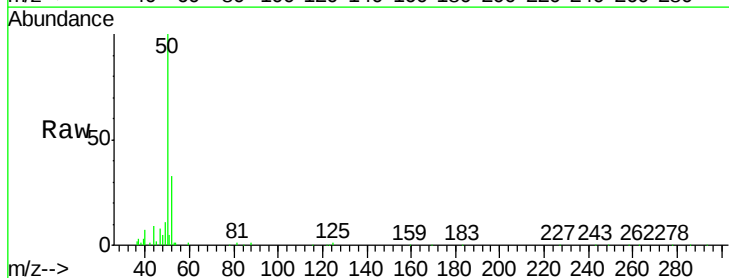
Acq: 12 Jul 2018 20:07

Tgt Ion: 50 Resp: 79284

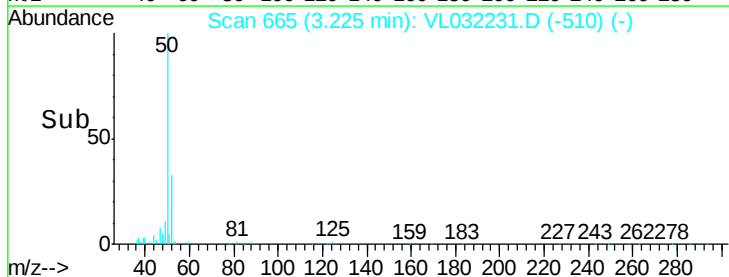
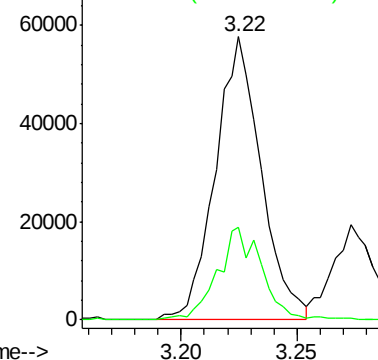
Ion Ratio Lower Upper

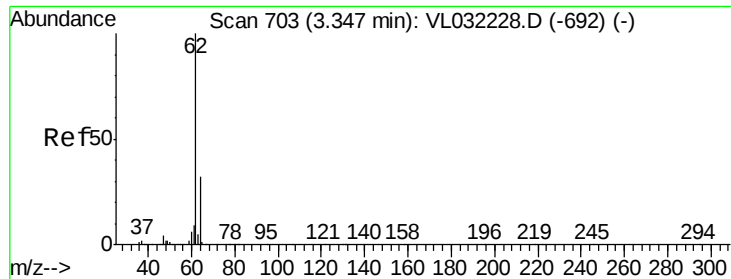
50 100

52 32.7 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.58 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 78680

Ion Ratio Lower Upper

62 100

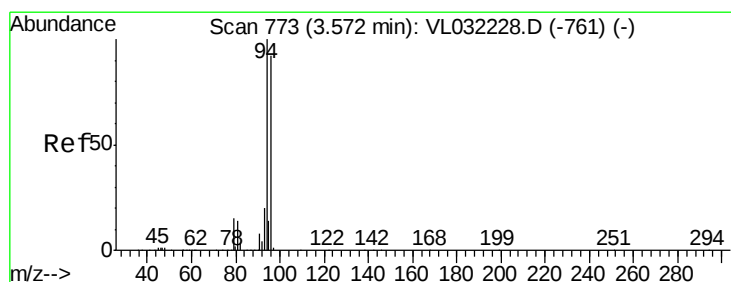
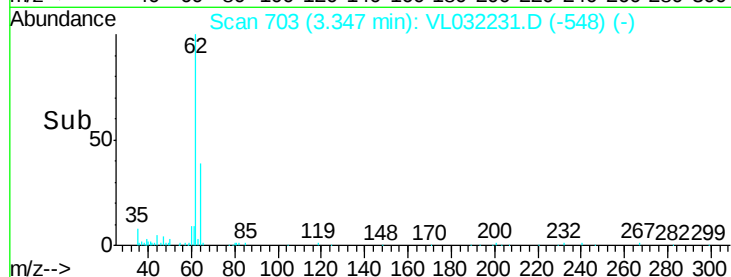
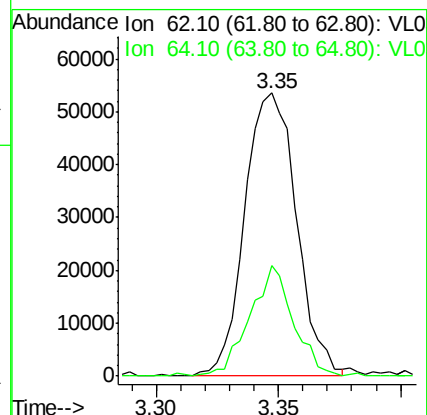
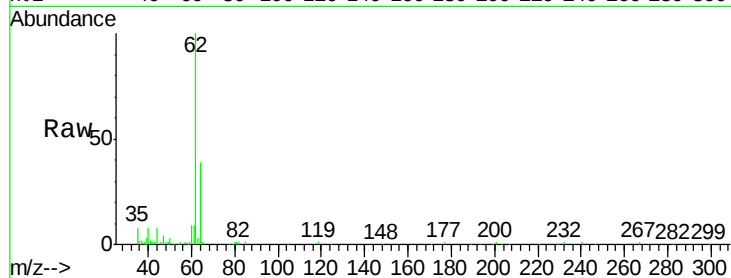
64 38.9 25.8 38.6#

Manual Integrations

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#6

Bromomethane

Concen: 0.55 ppbv m

RT: 3.58 min Scan# 774

Delta R.T. 0.00 min

Lab File: VL032231.D

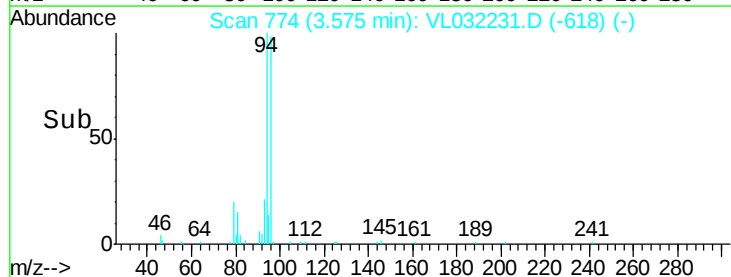
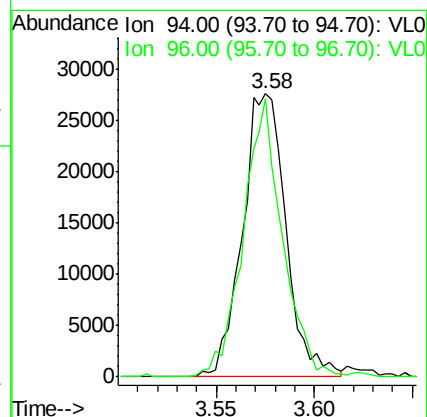
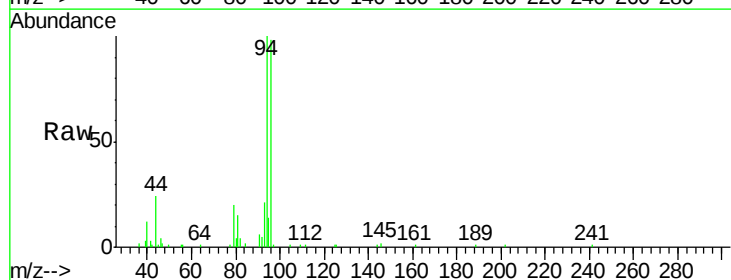
Acq: 12 Jul 2018 20:07

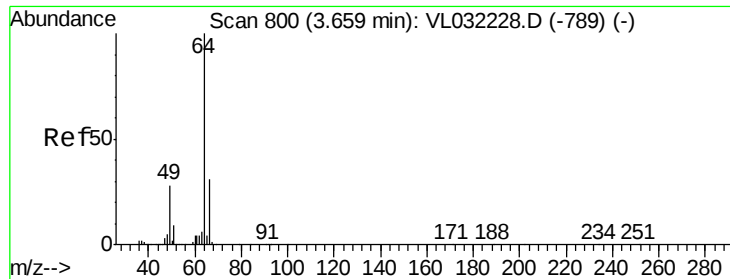
Tgt Ion: 94 Resp: 42936

Ion Ratio Lower Upper

94 100

96 98.2 73.5 110.3





#7

Chloroethane

Concen: 0.51 ppbv

RT: 3.66 min Scan# 800

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 24890

Ion Ratio Lower Upper

64 100

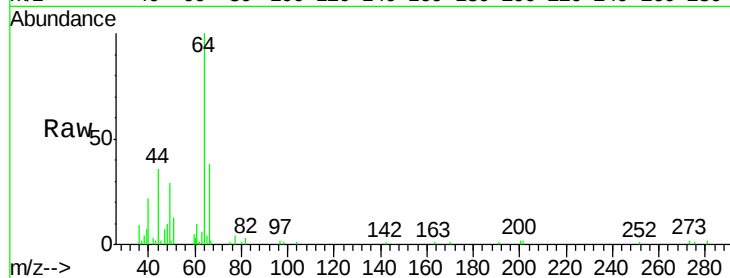
66 40.0 24.4 36.6#

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

20000

15000

10000

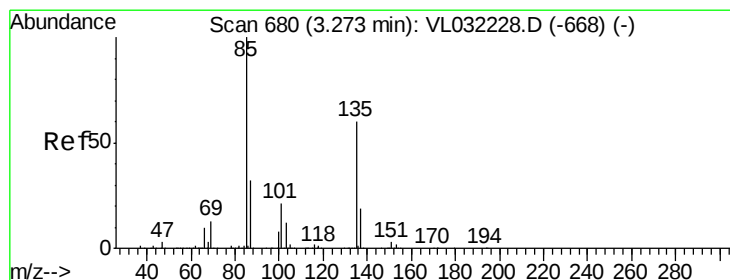
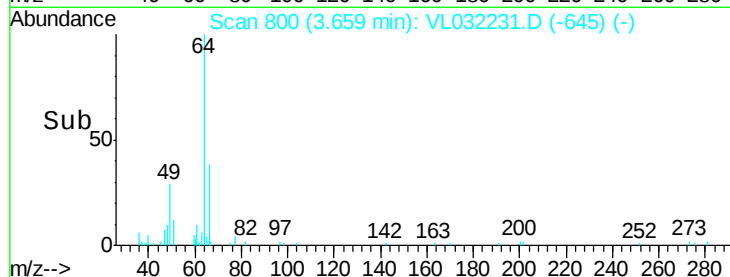
5000

0

3.65

3.70

Time-->



#8

Dichlorotetrafluoroethane

Concen: 0.64 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032231.D

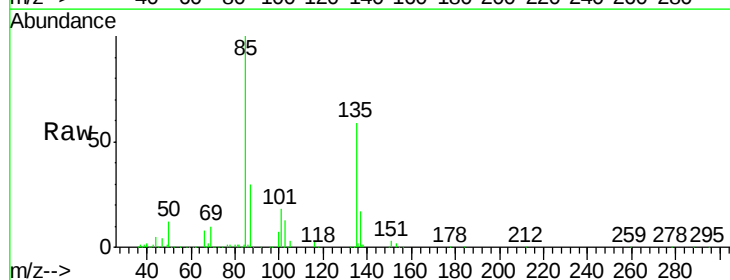
Acq: 12 Jul 2018 20:07

Tgt Ion: 85 Resp: 194548

Ion Ratio Lower Upper

85 100

135 61.2 48.6 72.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

150000

100000

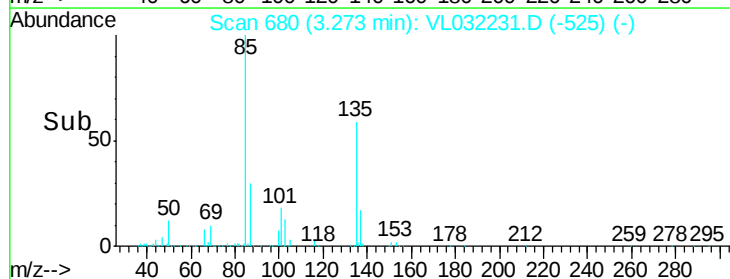
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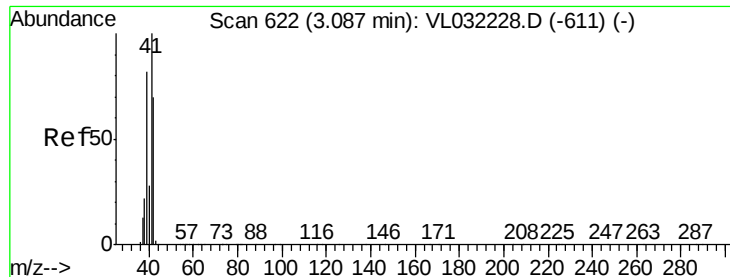
0

3.25

3.30

Time-->





#9

Propene

Concen: 0.47 ppbv

RT: 3.09 min Scan# 623

Delta R.T. 0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 54269

Ion Ratio Lower Upper

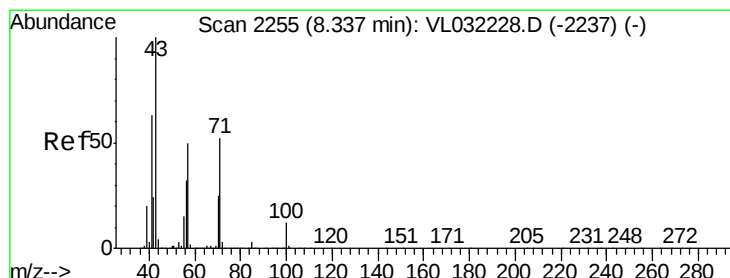
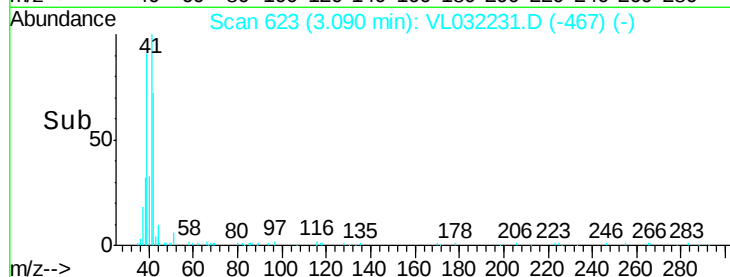
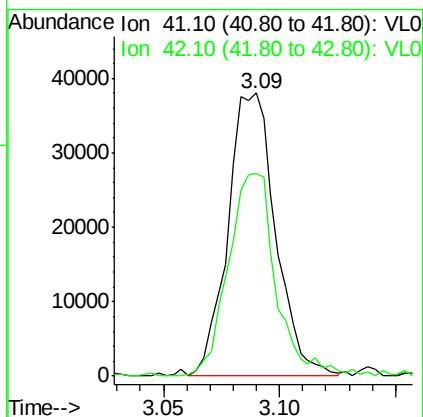
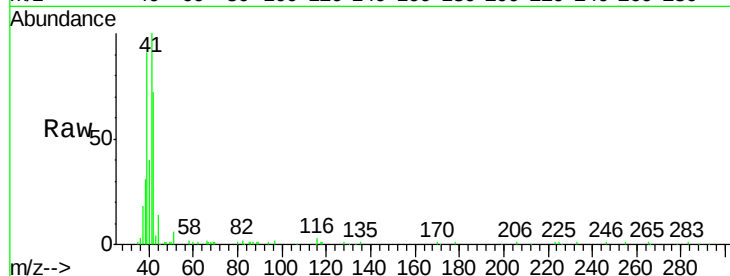
41 100

42 72.0 56.2 84.4

Manual Integrations
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7/13/2018 5:22:13 PM



#10

Heptane

Concen: 0.39 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VL032231.D

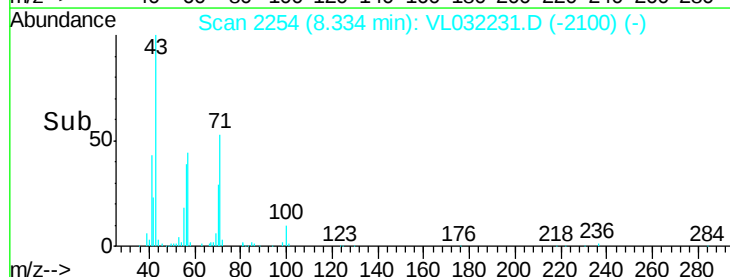
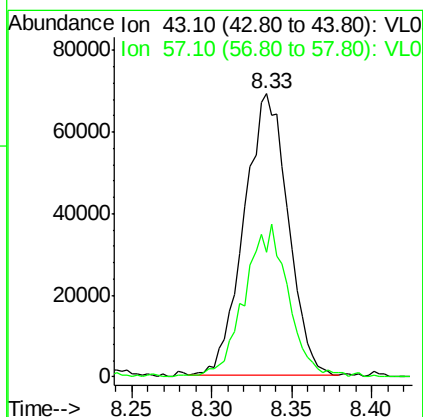
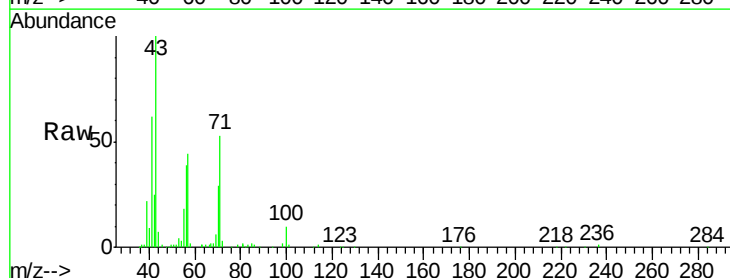
Acq: 12 Jul 2018 20:07

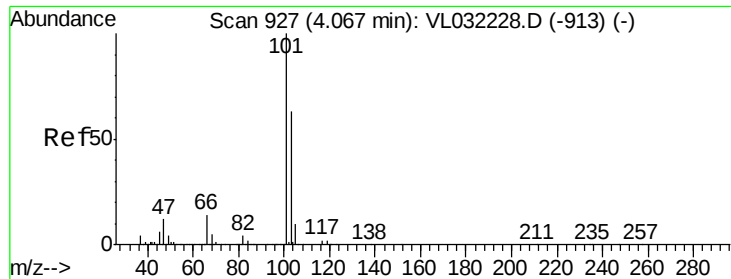
Tgt Ion: 43 Resp: 130055

Ion Ratio Lower Upper

43 100

57 53.8 40.7 61.1





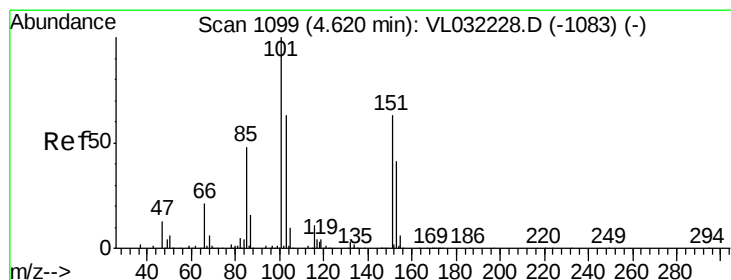
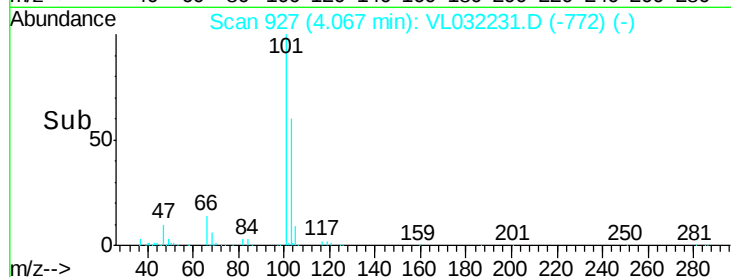
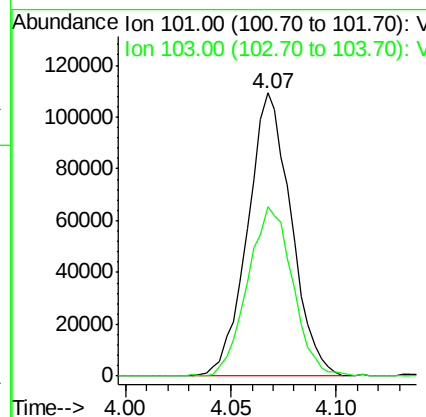
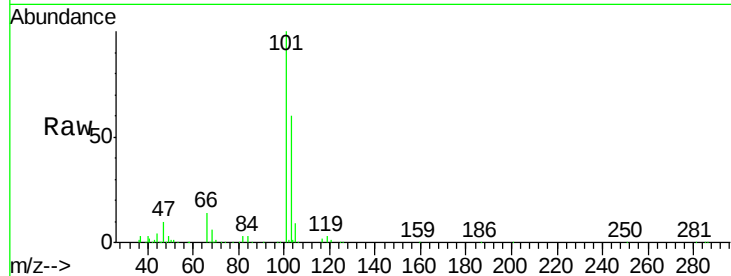
#11
 Trichlorofluoromethane
 Concen: 0.55 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.5	50.2	75.2

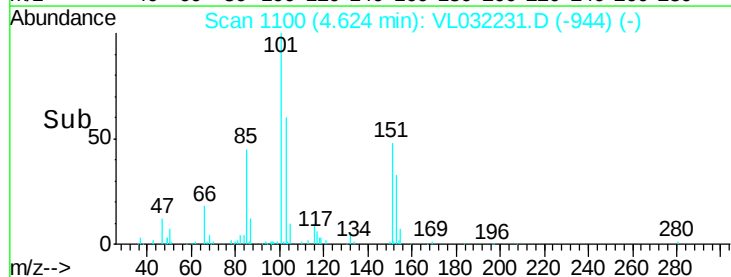
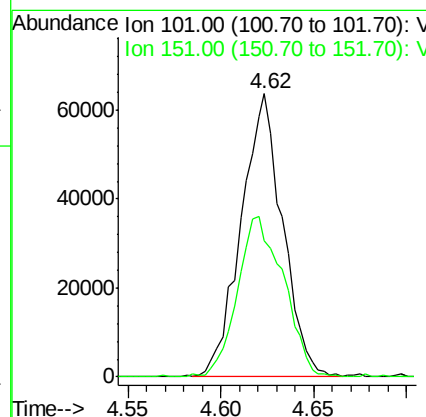
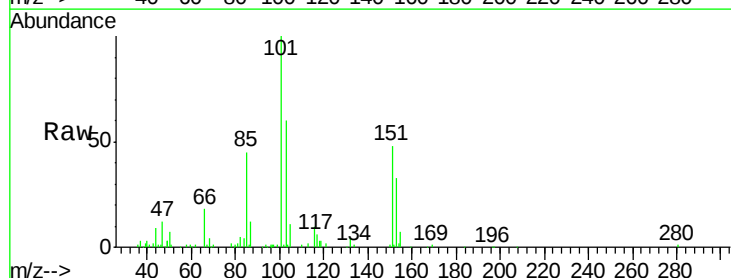
Manual Integrations
 APPROVED

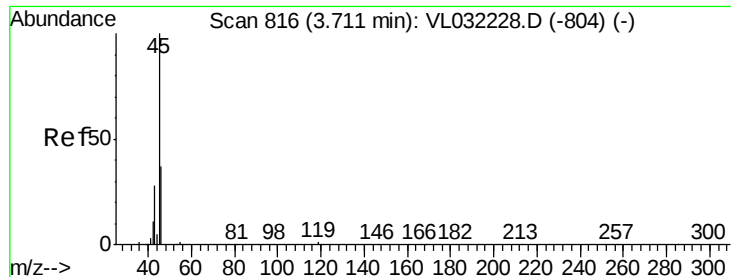
MMDadoda
 7/13/2018 5:22:13 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.52 ppbv
 RT: 4.62 min Scan# 1100
 Delta R.T. 0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
101	100		
151	63.0	52.2	78.2





#13

Ethanol

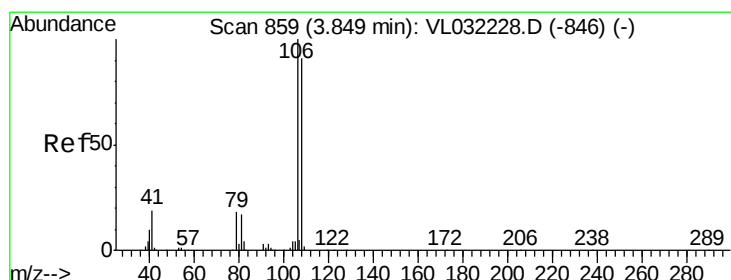
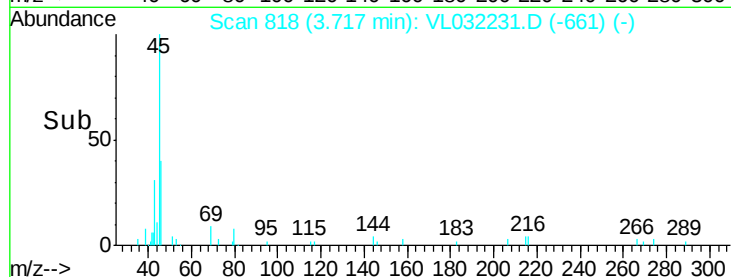
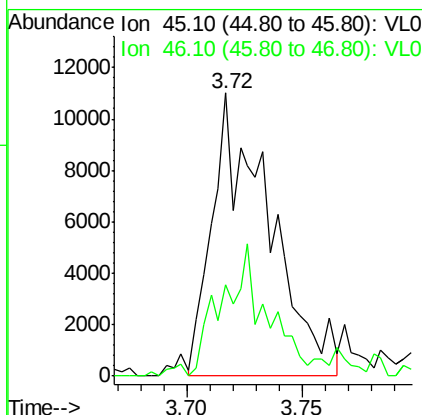
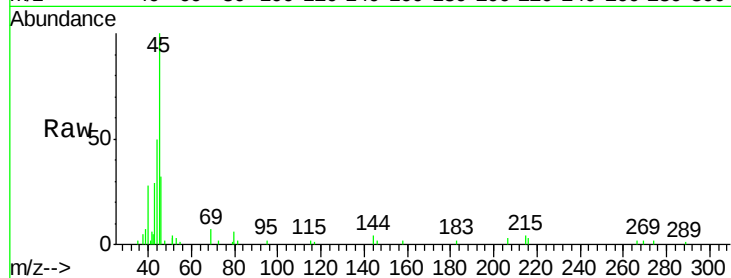
Concen: 0.55 ppbv m
 RT: 3.72 min Scan# 818
 Delta R.T. 0.01 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.5	61.9#

Manual Integrations
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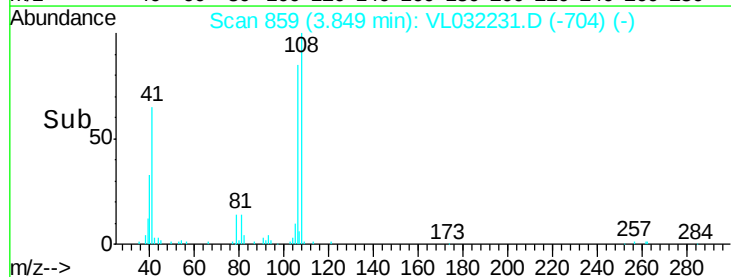
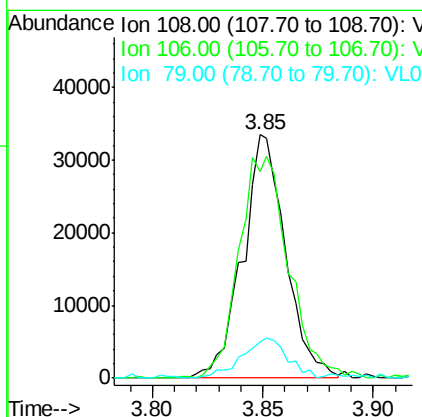
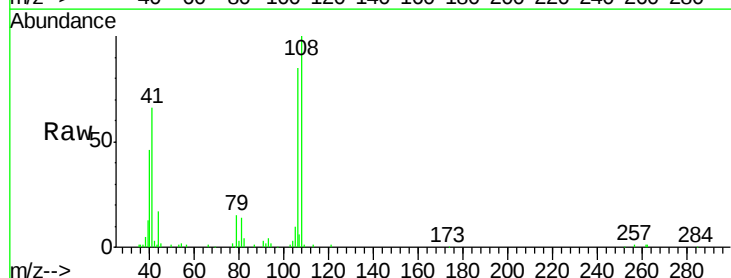


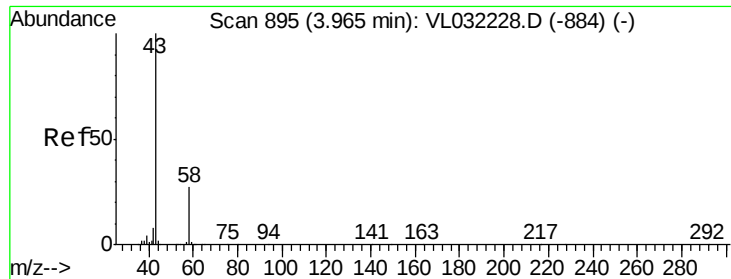
#14

Bromoethene

Concen: 0.51 ppbv
 RT: 3.85 min Scan# 859
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.6	85.5	128.3
79	18.5	14.2	21.4





#15

Acetone

Concen: 0.58 ppbv

RT: 3.97 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 134853

Ion Ratio Lower Upper

43 100

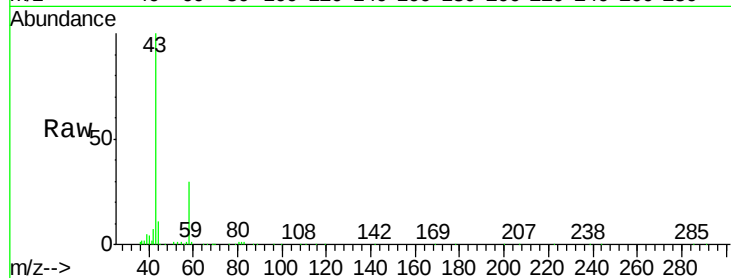
58 29.3 21.5 32.3

Manual Integrations

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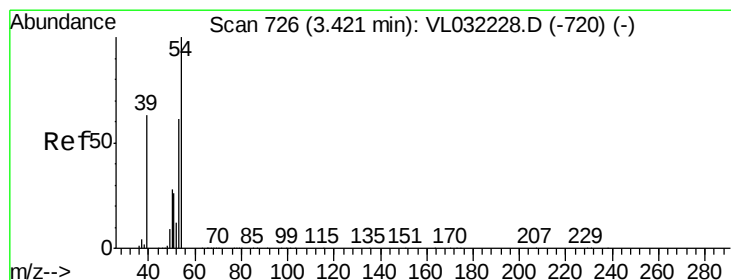
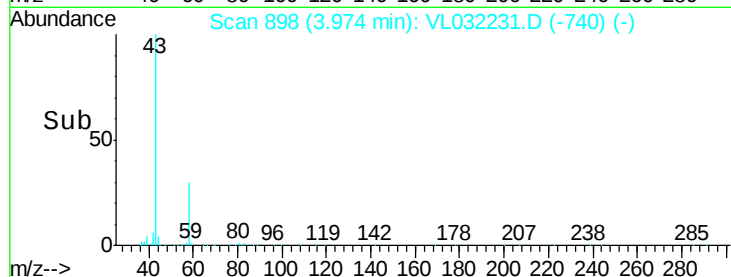
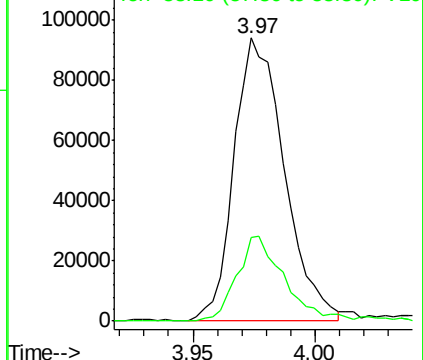
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.54 ppbv

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VL032231.D

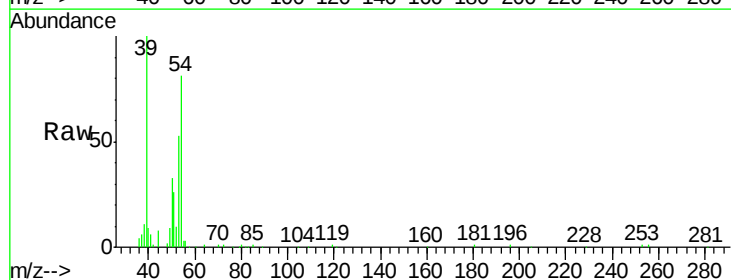
Acq: 12 Jul 2018 20:07

Tgt Ion: 39 Resp: 62256

Ion Ratio Lower Upper

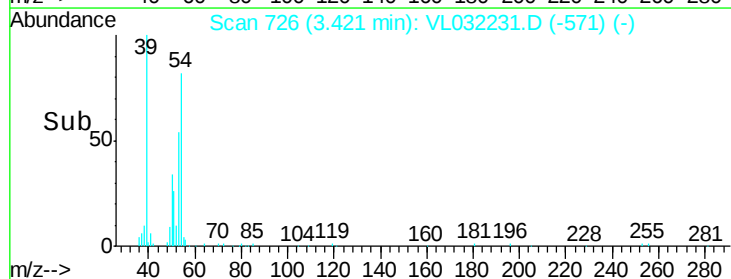
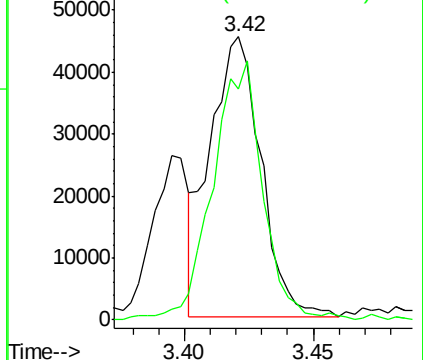
39 100

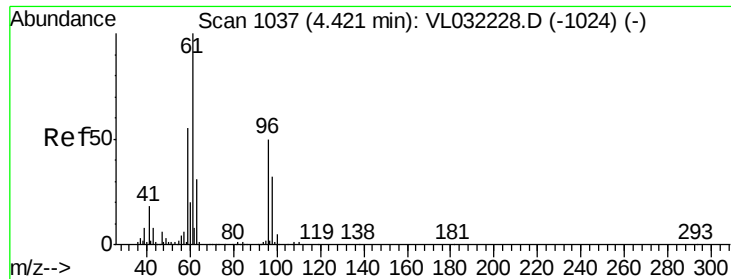
54 92.5 70.0 105.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





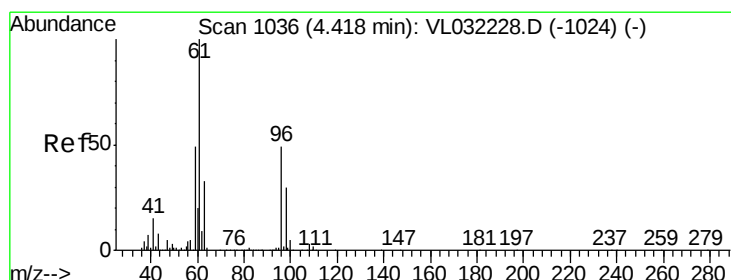
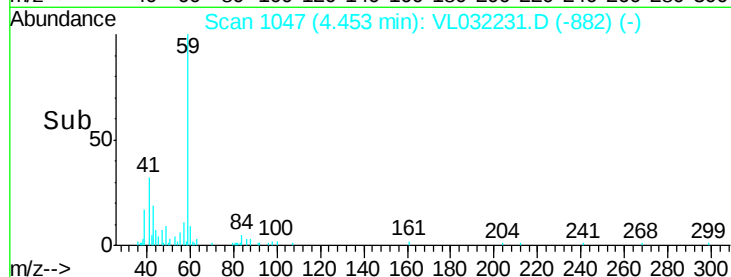
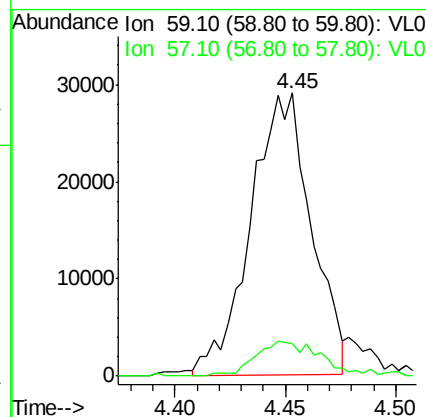
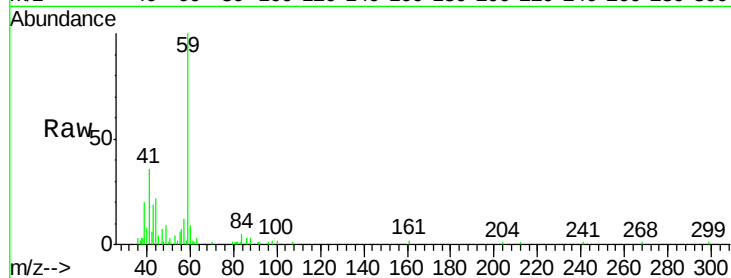
#17
tert-Butyl alcohol
Concen: 0.39 ppbv
RT: 4.45 min Scan# 1047
Delta R.T. 0.03 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	59	Resp	55413
Ion Ratio	Lower	Upper	
59	100		
57	13.8	8.4	12.6#

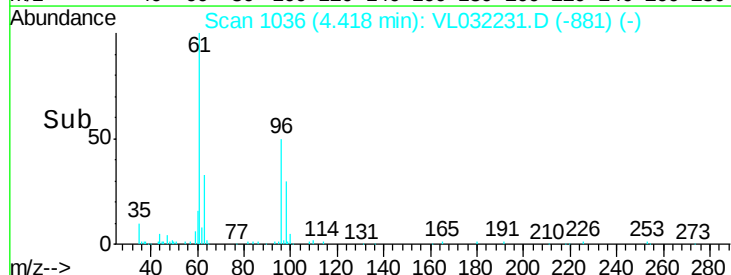
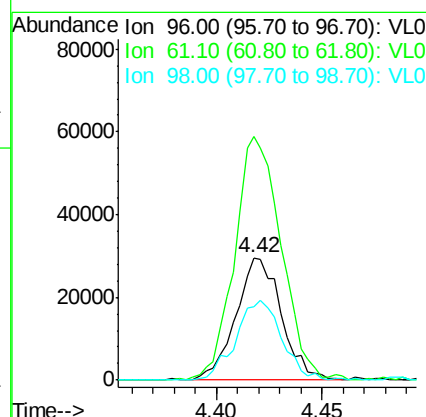
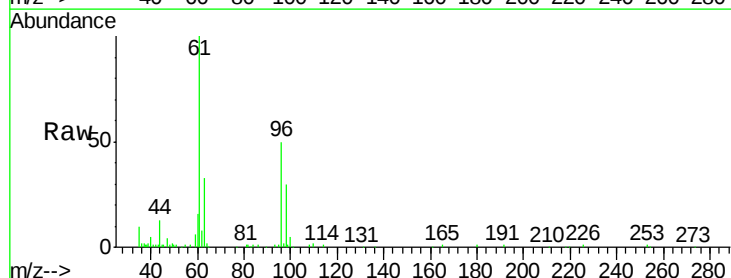
Manual Integrations
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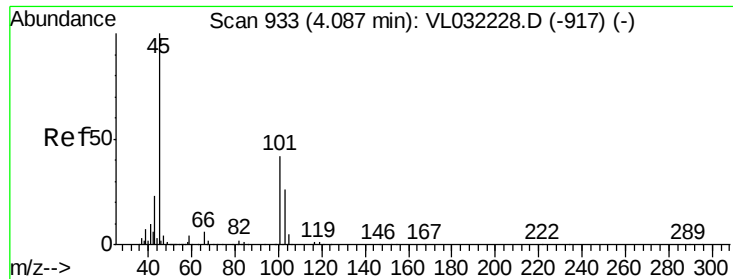
MMDadoda
7/13/2018 5:22:13 PM



#18
1,1-Dichloroethene
Concen: 0.50 ppbv
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion	96	Resp	44317
Ion Ratio	Lower	Upper	
96	100		
61	195.9	163.0	244.4
98	60.3	48.5	72.7





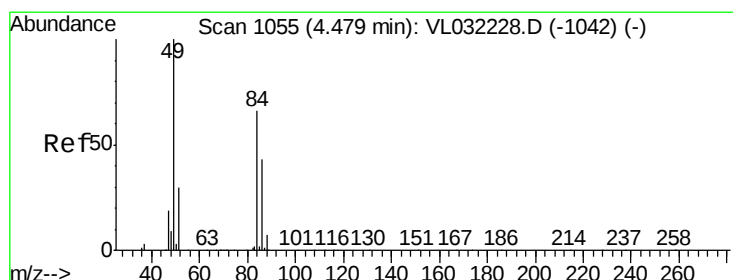
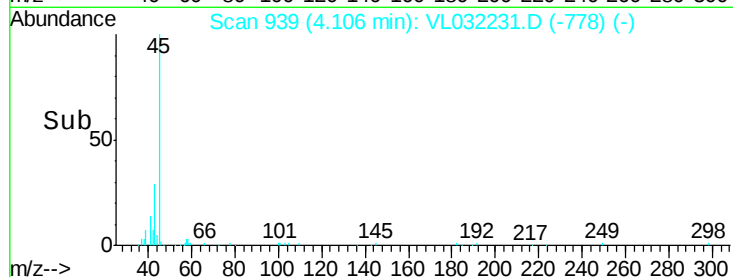
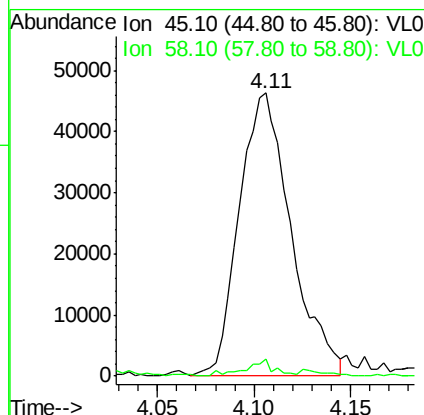
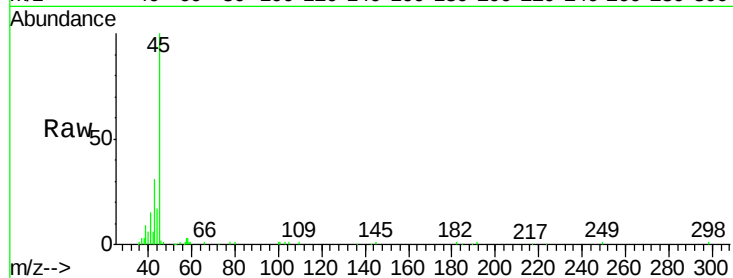
#19
Isopropyl Alcohol
Concen: 0.45 ppbv
RT: 4.11 min Scan# 939
Delta R.T. 0.02 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 85661
Ion Ratio Lower Upper
45 100
58 4.8 1.3 1.9#

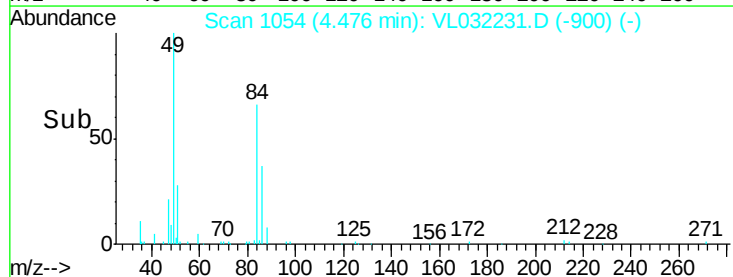
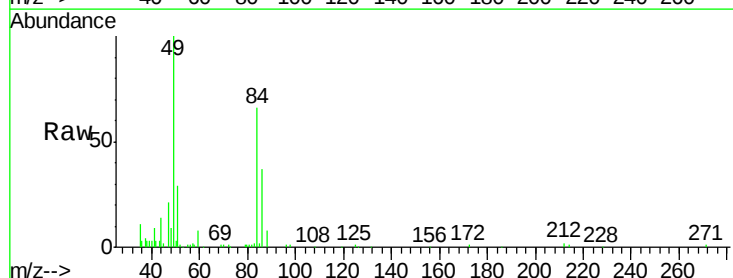
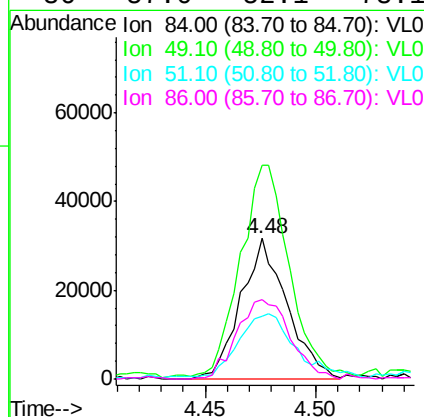
Manual Integrations
APPROVED

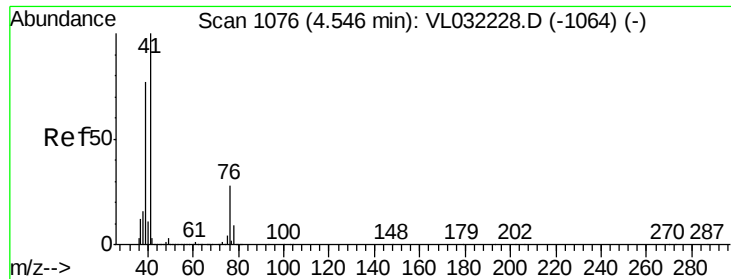
MMDadoda
7/13/2018 5:22:13 PM



#20
Methylene Chloride
Concen: 0.54 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion: 84 Resp: 46165
Ion Ratio Lower Upper
84 100
49 150.4 121.8 182.6
51 42.7 36.3 54.5
86 57.0 52.1 78.1





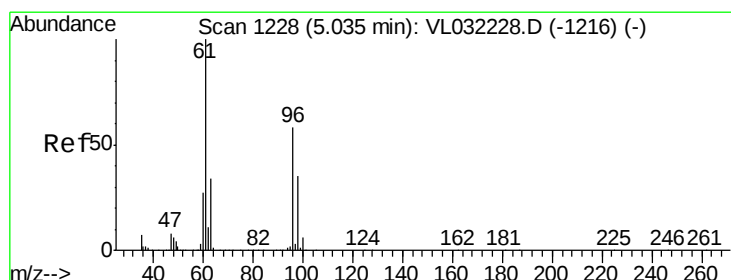
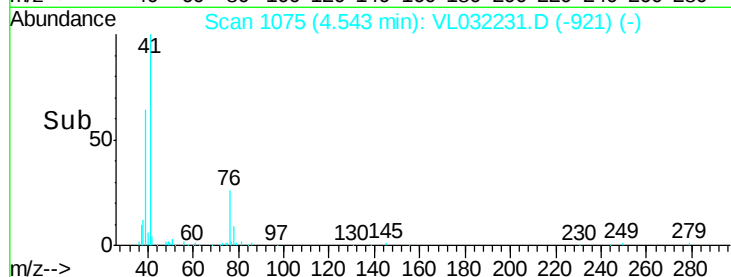
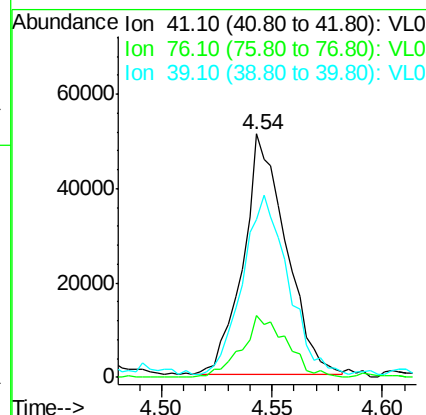
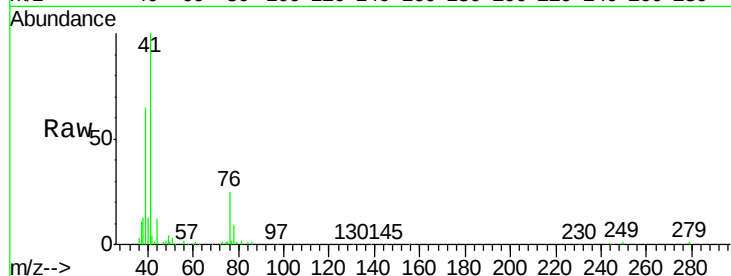
#21
Allvl Chloride
Concen: 0.44 ppbv
RT: 4.54 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.9	34.3
39	79.1	62.3	93.5

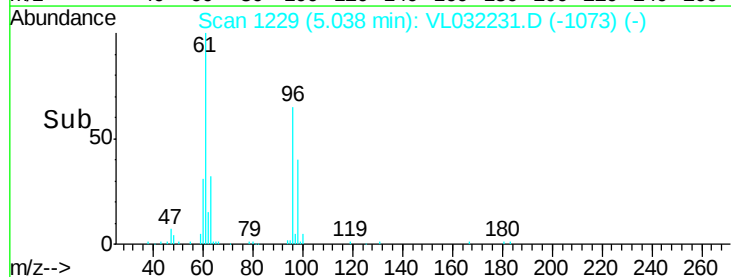
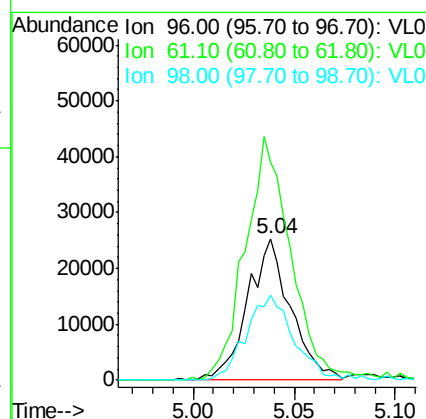
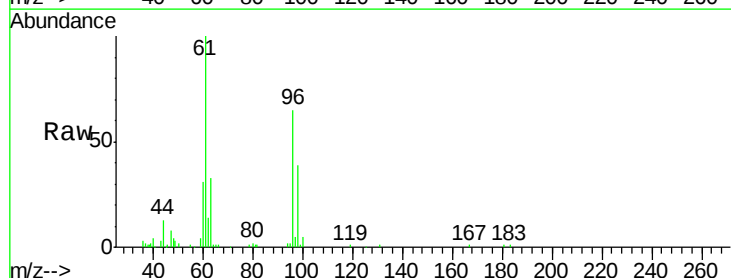
Manual Integrations
APPROVED

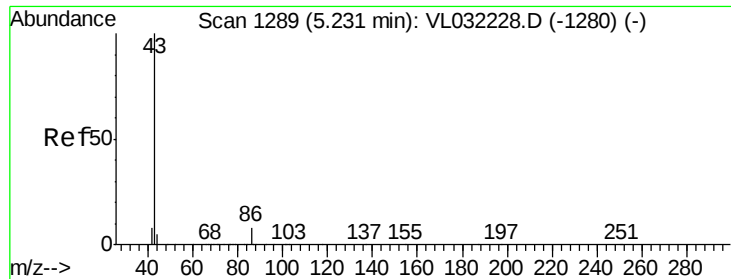
MMDadoda
7/13/2018 5:22:13 PM



#22
trans-1,2-Dichloroethene
Concen: 0.40 ppbv
RT: 5.04 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.2	139.1	208.7
98	60.3	48.4	72.6





#23

Vinyl Acetate

Concen: 0.41 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

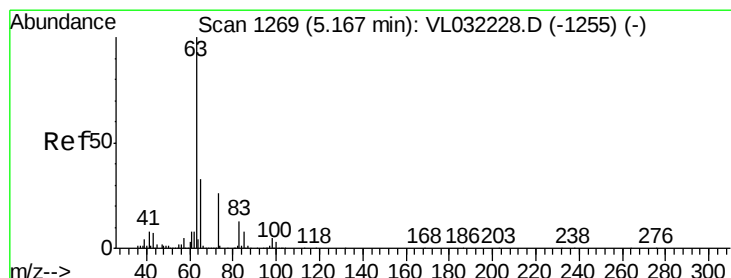
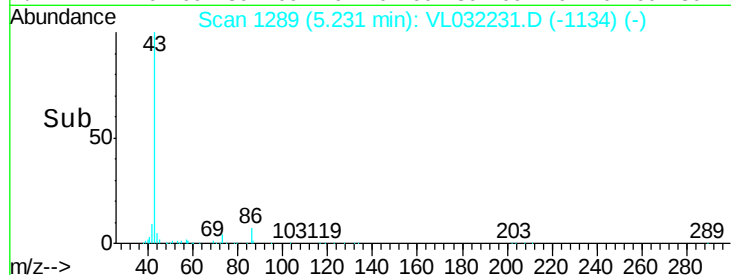
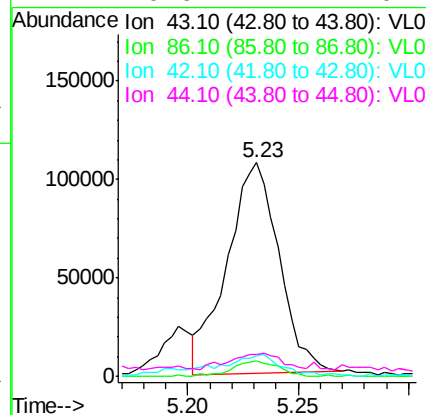
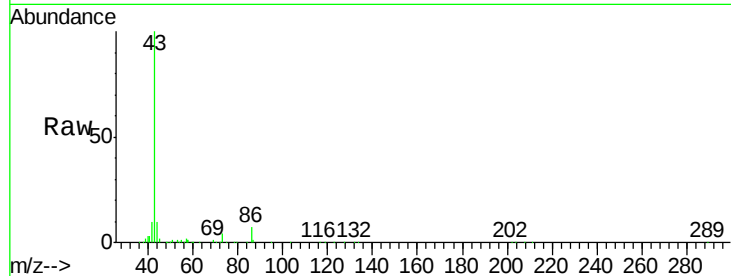
ClientSampleId :

VSTDIC0.5

Tot Ion	43	Resp	174678
Ion Ratio	Lower	Upper	
43	100		
86	7.2	5.9	8.9
42	9.5	7.0	10.6
44	6.6	4.2	6.2#

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.49 ppbv

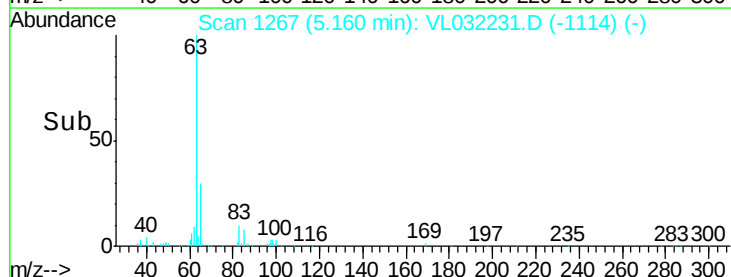
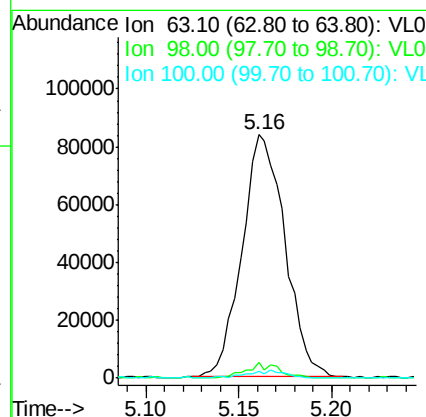
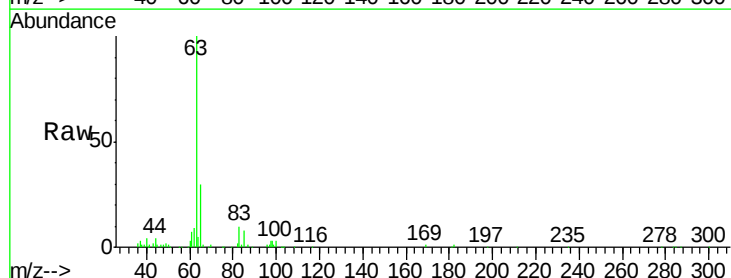
RT: 5.16 min Scan# 1267

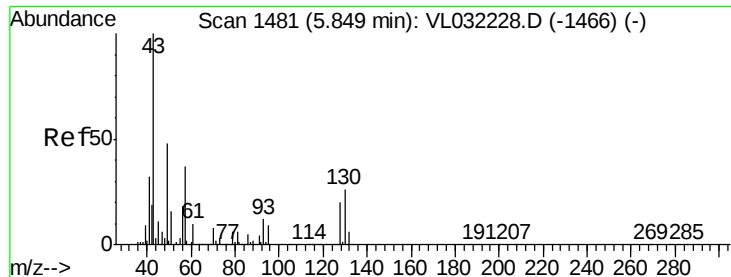
Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion	63	Resp	134951
Ion Ratio	Lower	Upper	
63	100		
98	6.7	2.4	7.1
100	2.7	1.5	4.4





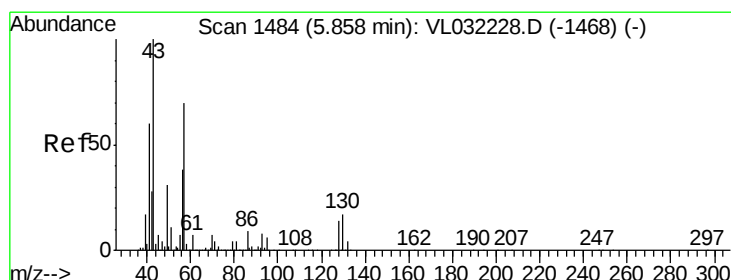
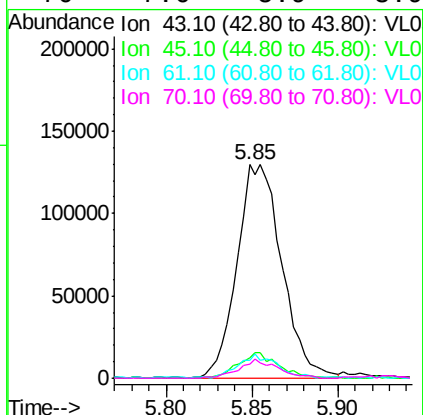
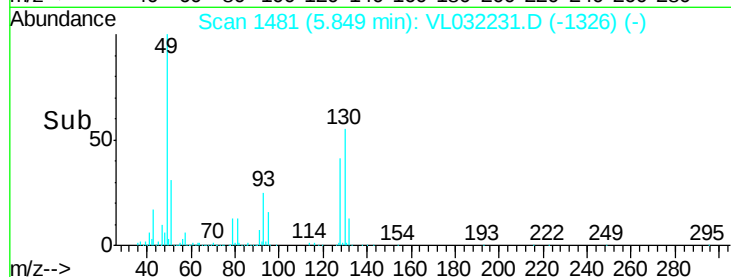
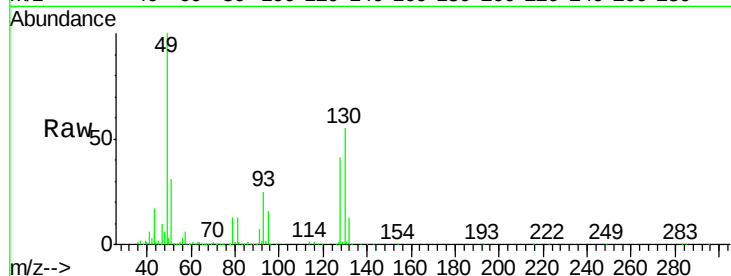
#25
Ethyl Acetate
Concen: 0.48 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	11.0	8.0	12.0	
61	10.0	7.7	11.5	
70	7.6	5.9	8.9	

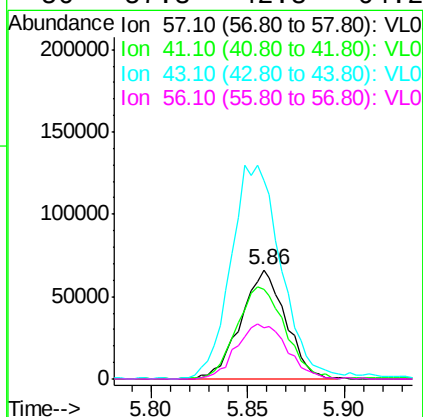
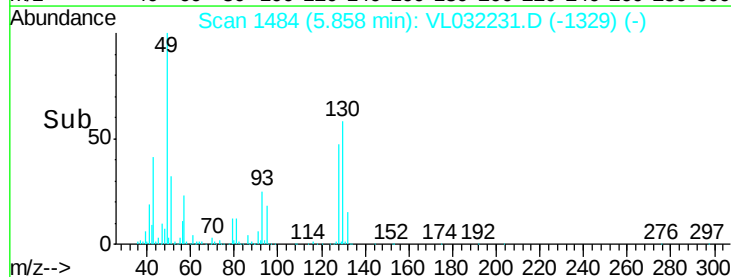
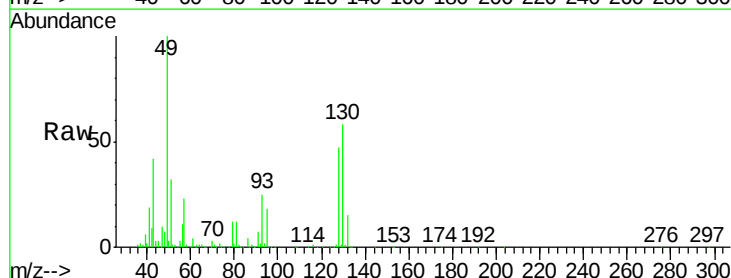
Manual Integrations
APPROVED

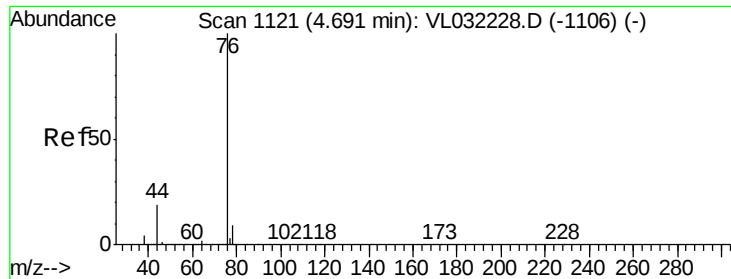
MMDadoda
7/13/2018 5:22:13 PM



#26
Hexane
Concen: 0.47 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	93.2	68.7	103.1	
43	225.6	176.2	264.2	
56	57.3	42.8	64.2	





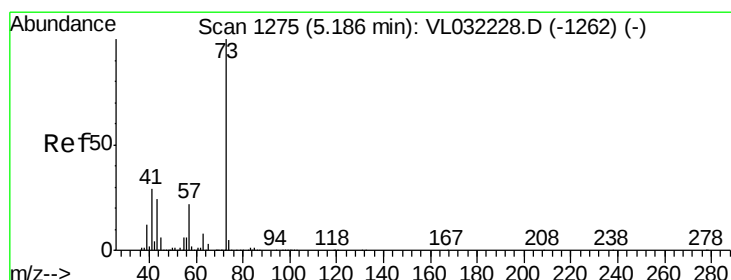
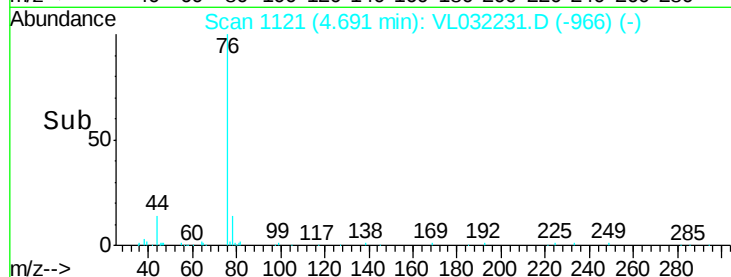
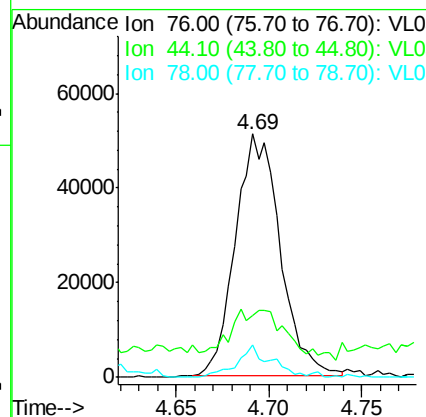
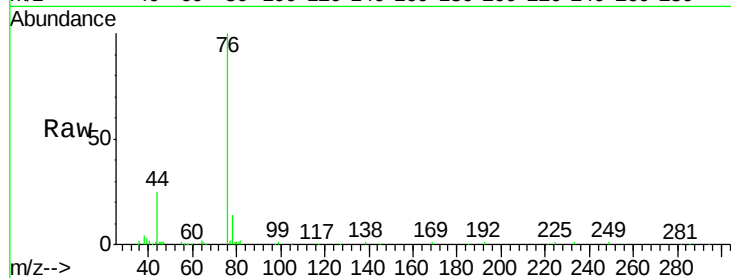
#27
Carbon Disulfide
Concen: 0.39 ppbv
RT: 4.69 min Scan# 1121
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
44	28.8	15.1	22.7#
78	10.9	7.4	11.0

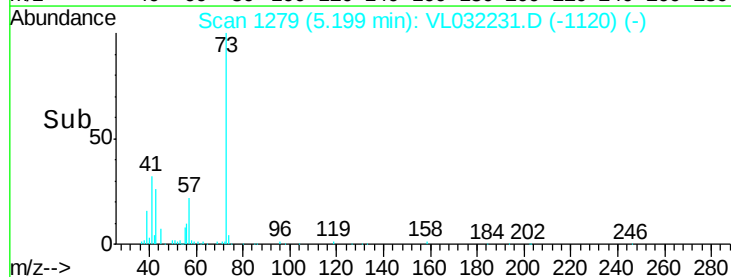
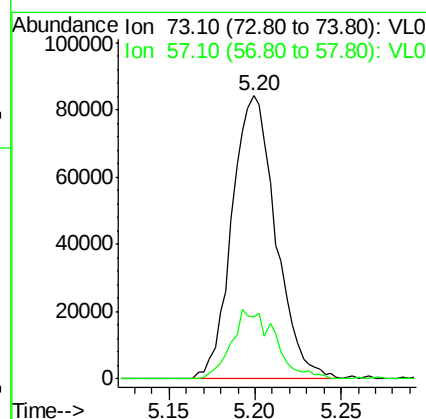
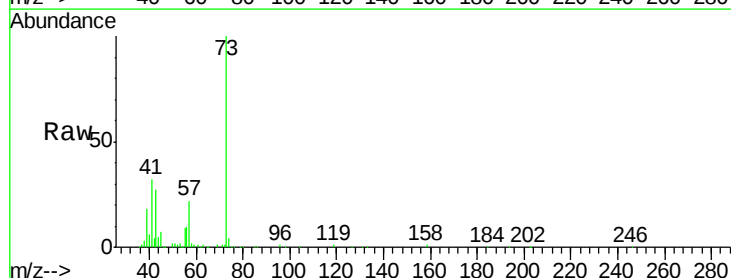
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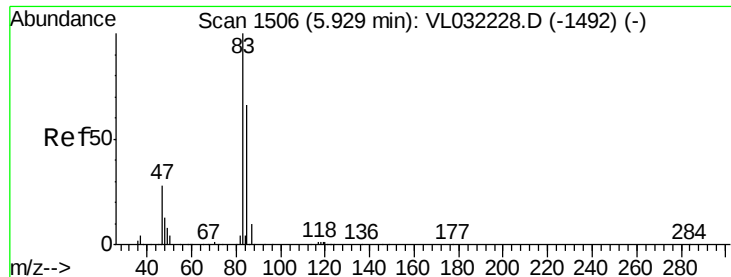
MMDadoda
7/13/2018 5:22:13 PM



#28
Methyl tert-Butyl Ether
Concen: 0.38 ppbv
RT: 5.20 min Scan# 1279
Delta R.T. 0.01 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.5	18.6	27.8





#29

Chloroform

Concen: 0.53 ppbv

RT: 5.92 min Scan# 1504

Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 174566

Ion Ratio Lower Upper

83 100

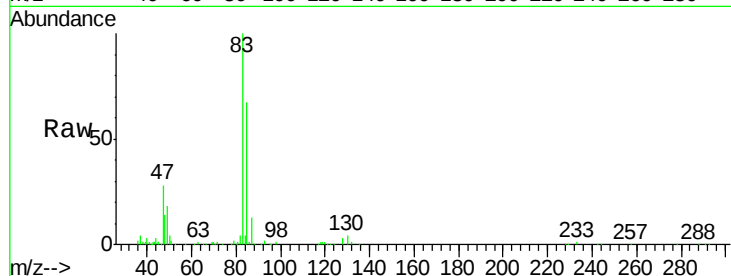
85 66.9 52.7 79.1

Manual Integrations

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MMDadoda

7/13/2018 5:22:13 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.92

100000

80000

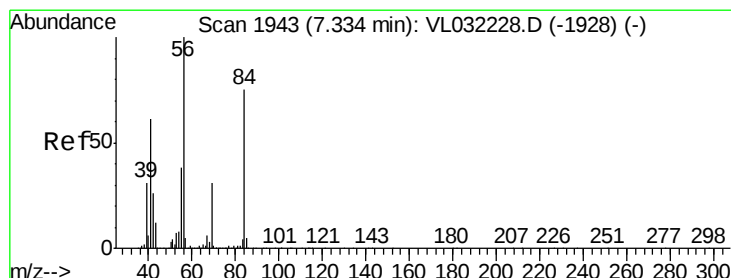
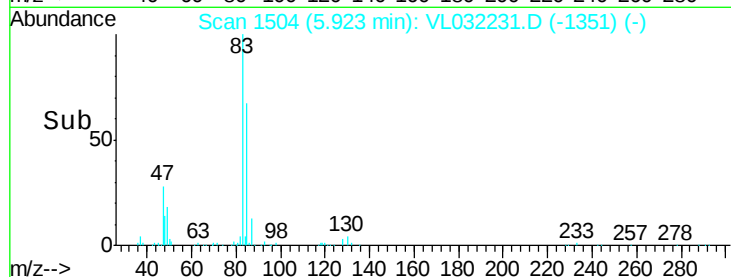
60000

40000

20000

0

Time--> 5.85 5.90 5.95 6.00



#30

Cyclohexane

Concen: 0.36 ppbv m

RT: 7.33 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

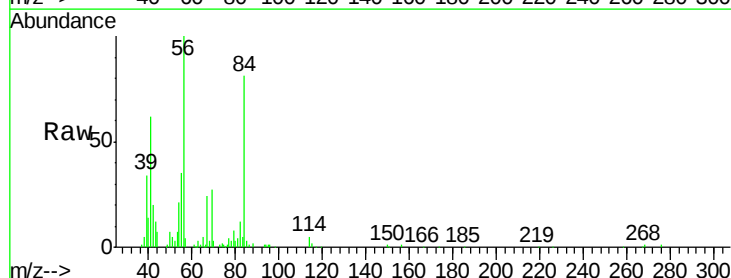
Tgt Ion: 84 Resp: 77699

Ion Ratio Lower Upper

84 100

56 0.0 112.6 168.8#

41 0.0 67.0 100.6#



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

80000

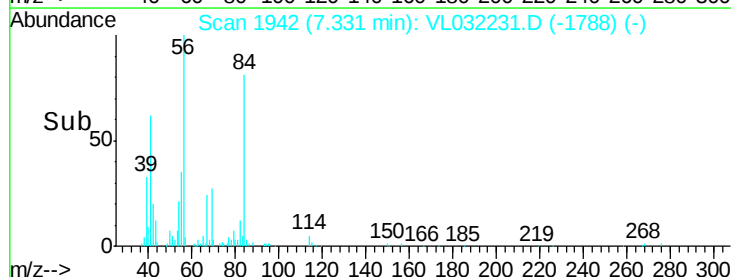
60000

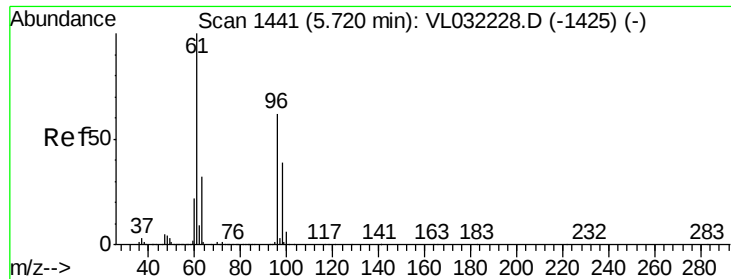
40000

20000

0

Time--> 7.25 7.30 7.35 7.40





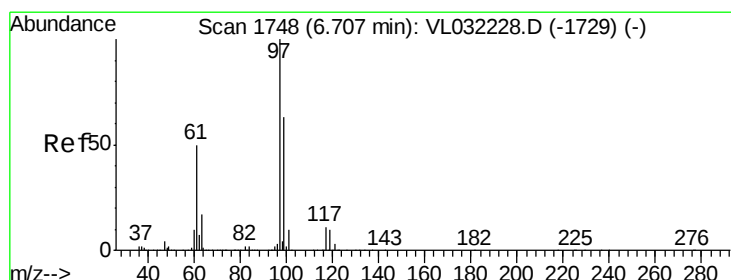
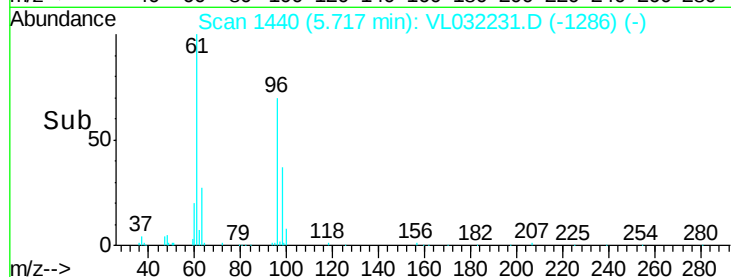
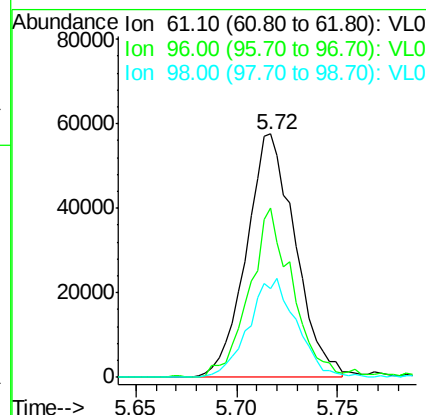
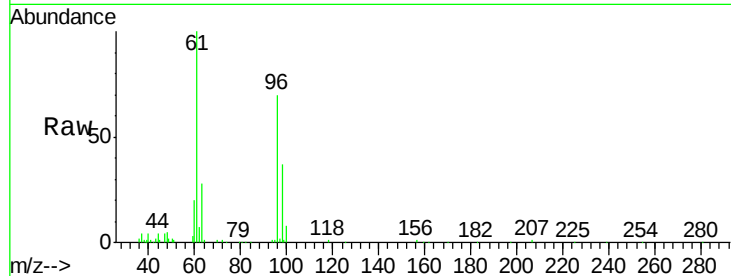
#31
 cis-1,2-Dichloroethene
 Concen: 0.43 ppbv
 RT: 5.72 min Scan# 1440
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	61	Resp:	97539
Ion Ratio	Lower	Upper	
61	100		
96	69.5	49.8	74.8
98	36.3	31.4	47.2

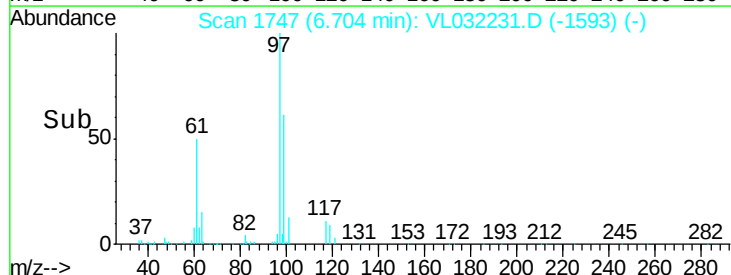
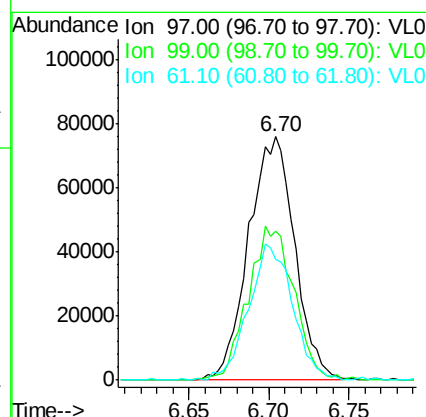
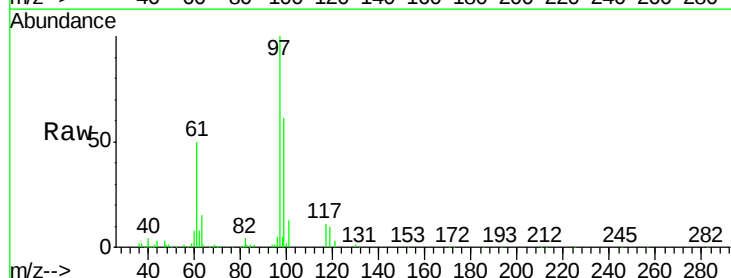
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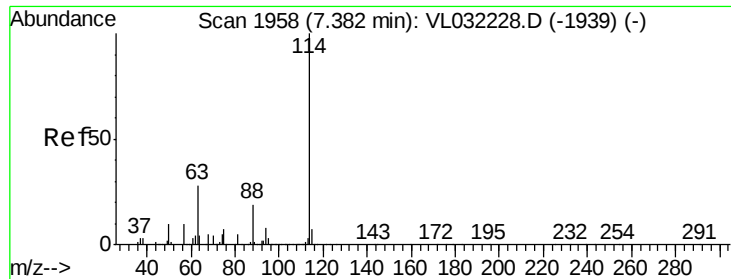
MMDadoda
 7/13/2018 5:22:13 PM



#32
 1,1,1-Trichloroethane
 Concen: 0.43 ppbv
 RT: 6.70 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion:	97	Resp:	150210
Ion Ratio	Lower	Upper	
97	100		
99	62.8	51.2	76.8
61	53.8	41.3	61.9





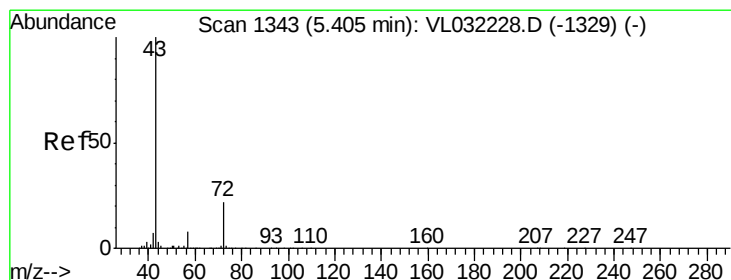
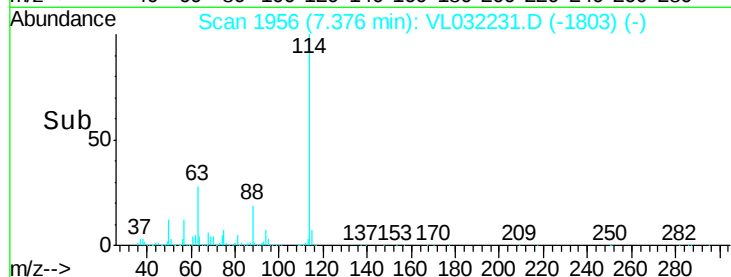
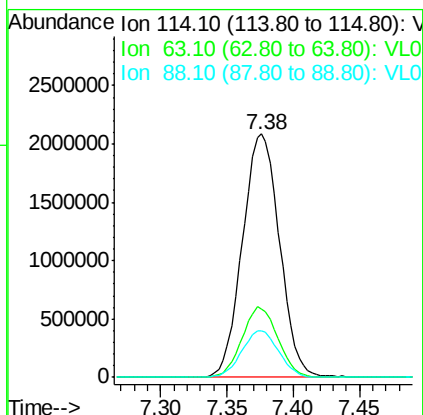
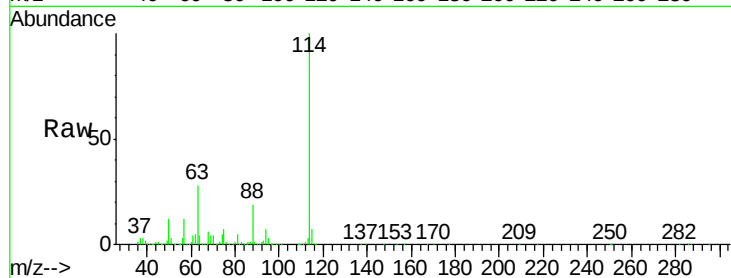
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1956
 Delta R.T. -0.01 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.5	33.7
88	19.1	15.4	23.0

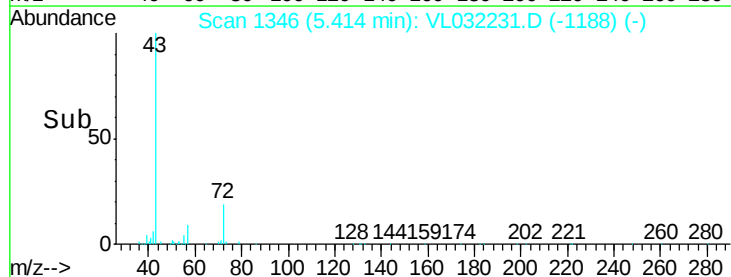
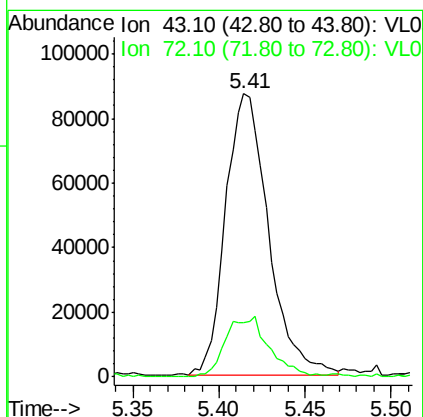
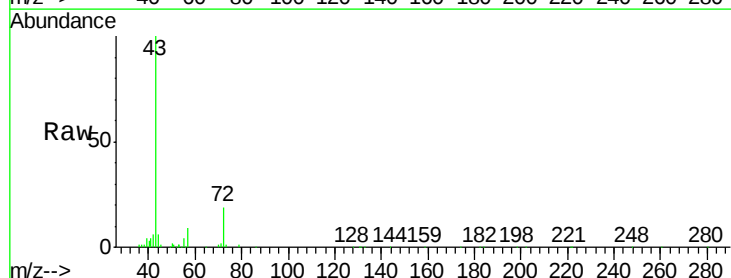
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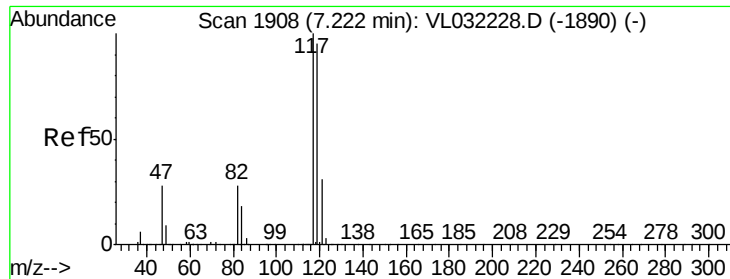
MMDadoda
 7/13/2018 5:22:13 PM



#34
 2-Butanone
 Concen: 0.58 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. 0.01 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.1	27.1





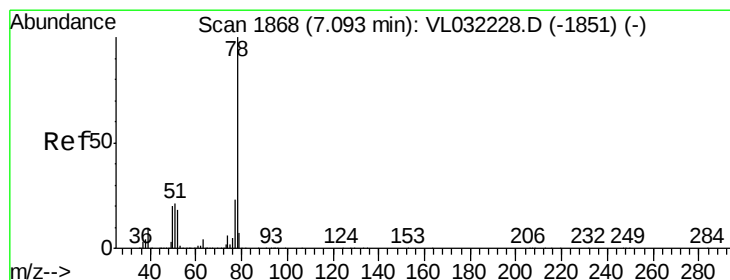
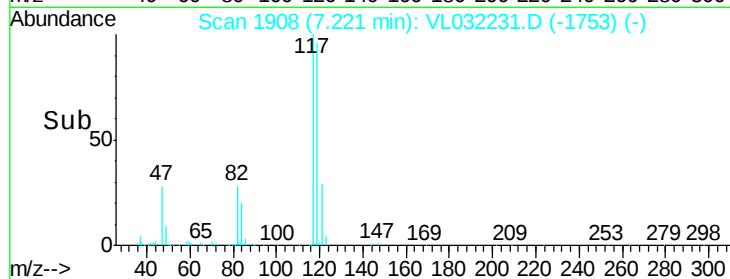
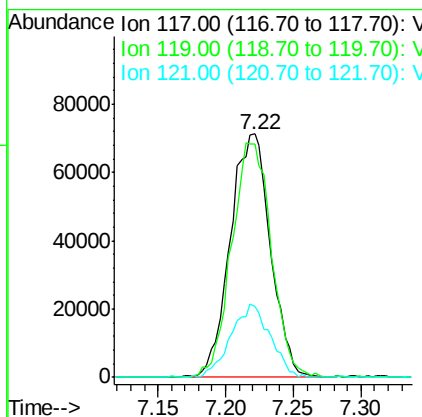
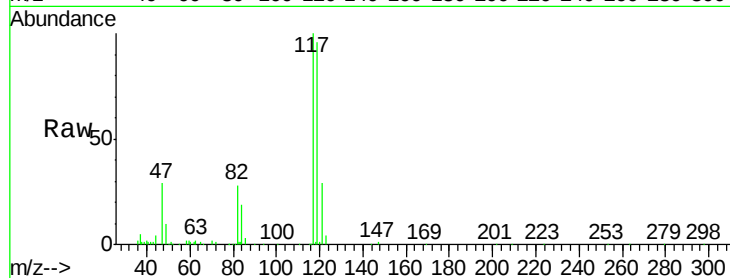
#35
Carbon Tetrachloride
Concen: 0.52 ppbv m
RT: 7.22 min Scan# 1908
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.7	113.5
121	29.0	24.6	37.0

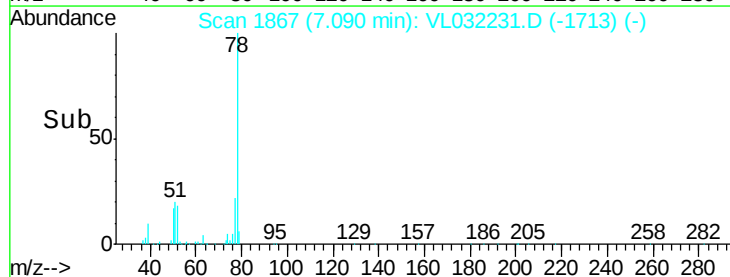
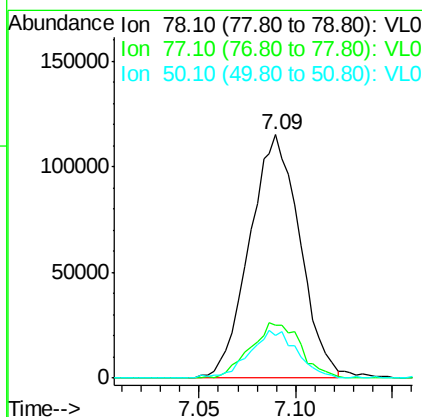
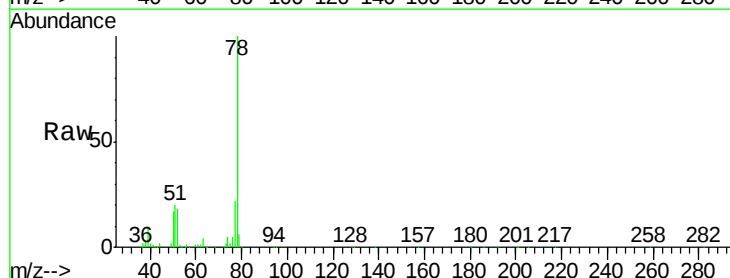
Manual Integrations
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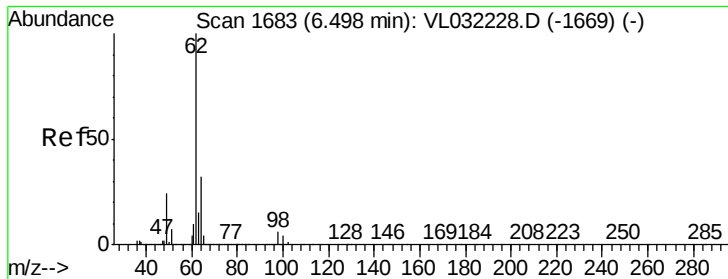
MMDadoda
7/13/2018 5:22:13 PM



#36
Benzene
Concen: 0.52 ppbv
RT: 7.09 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.7	18.0	27.0
50	17.4	15.8	23.8





#37

1,2-Dichloroethane

Concen: 0.62 ppbv

RT: 6.49 min Scan# 1681

Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 123269

Ion Ratio Lower Upper

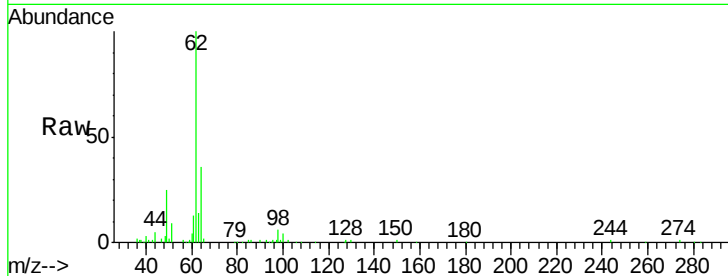
62 100

98 6.2 4.6 7.0

Manual Integrations
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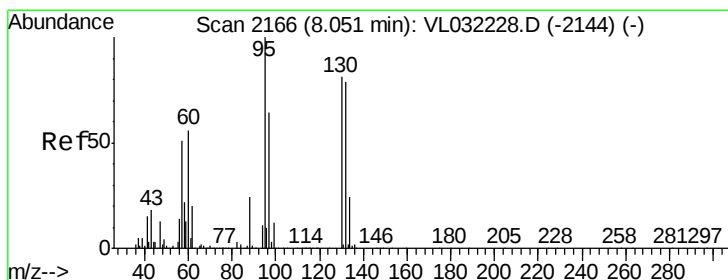
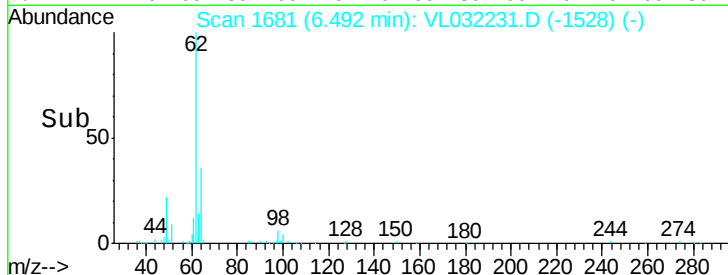
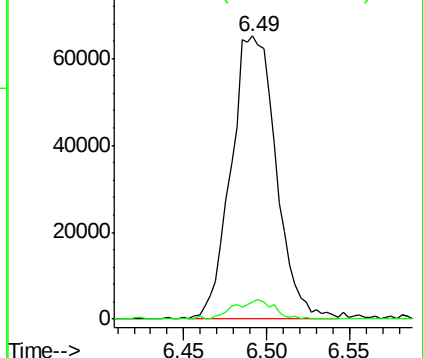
MMDadoda

7/13/2018 5:22:13 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.51 ppbv m

RT: 8.05 min Scan# 2165

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion:130 Resp: 77000

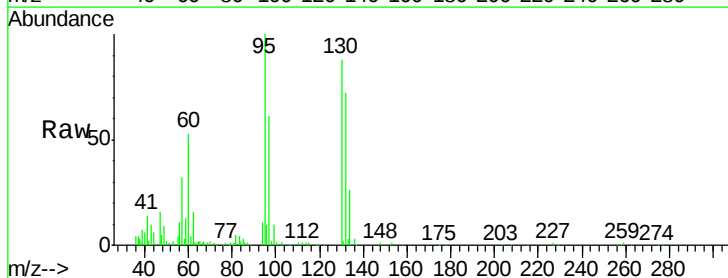
Ion Ratio Lower Upper

130 100

95 113.6 98.3 147.5

132 81.8 78.1 117.1

97 69.6 62.6 94.0

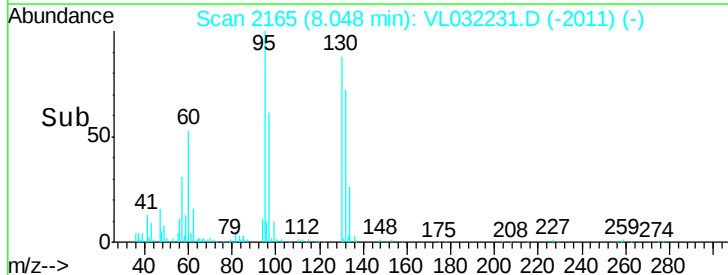
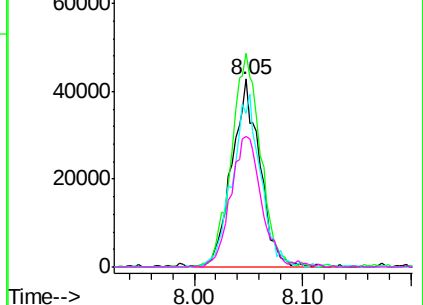


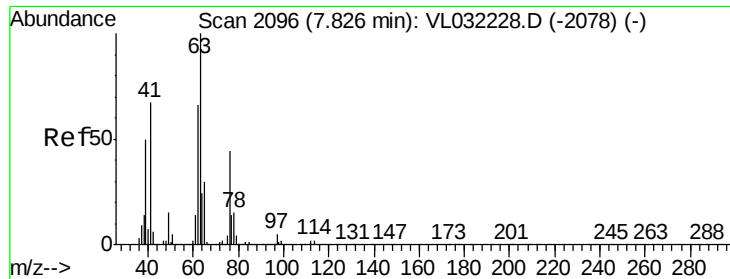
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





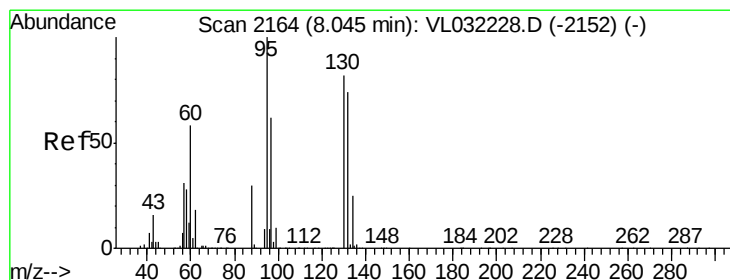
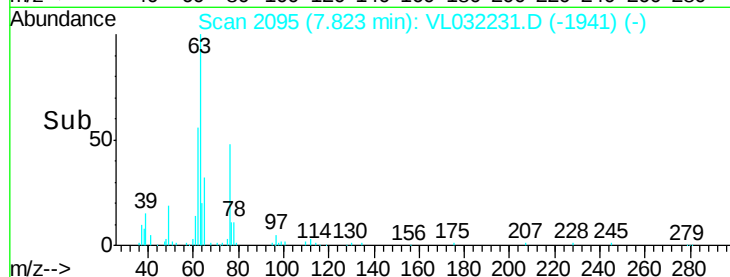
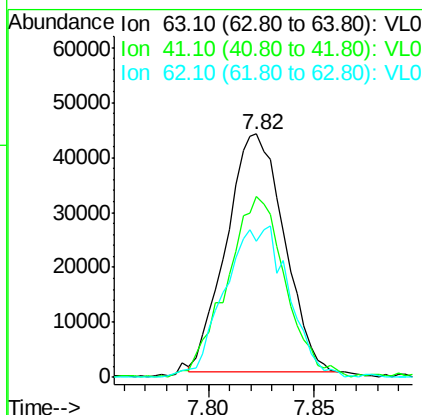
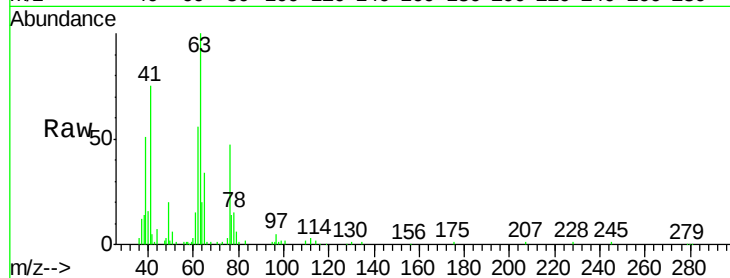
#39
 1,2-Dichloropropane
 Concen: 0.53 ppbv
 RT: 7.82 min Scan# 2095
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.1	53.8	80.6
62	55.5	53.1	79.7

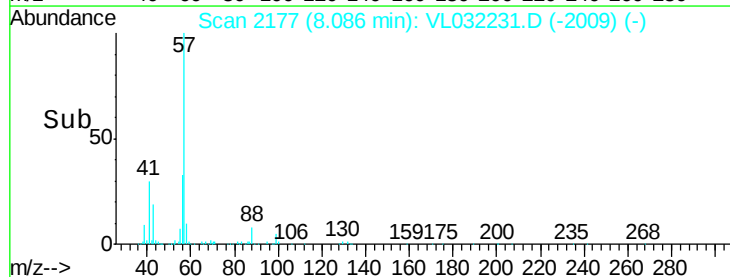
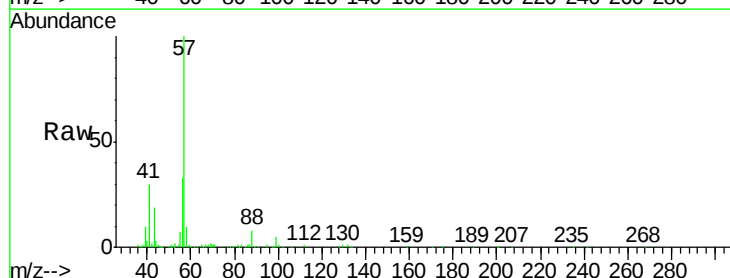
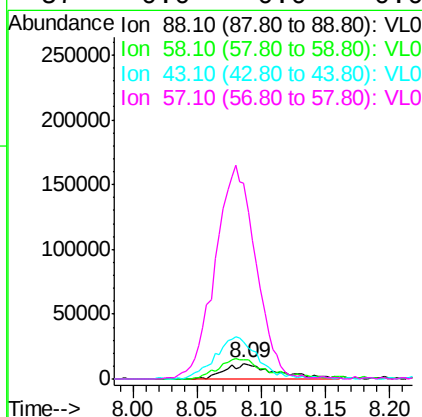
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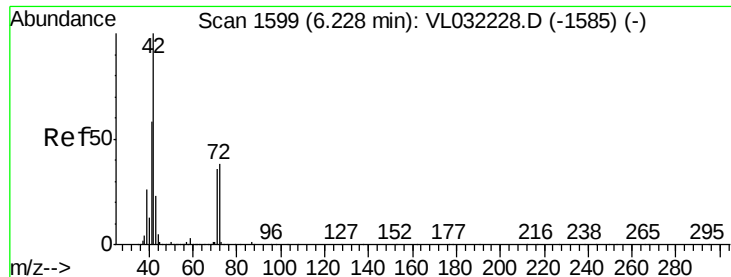
MMDadoda
 7/13/2018 5:22:13 PM



#40
 1,4-Dioxane
 Concen: 0.56 ppbv m
 RT: 8.09 min Scan# 2177
 Delta R.T. 0.04 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	117.4	176.2#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





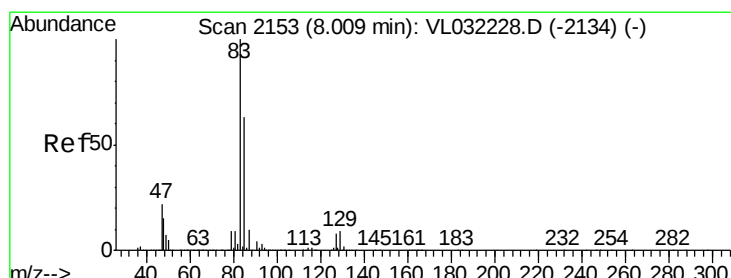
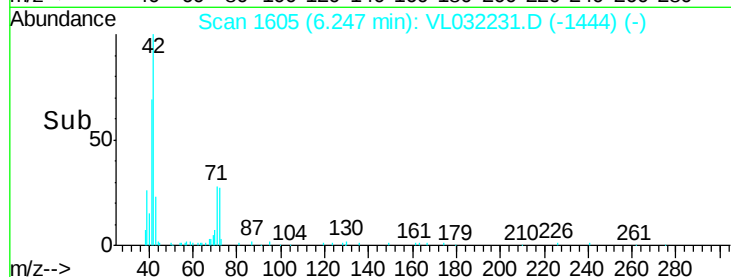
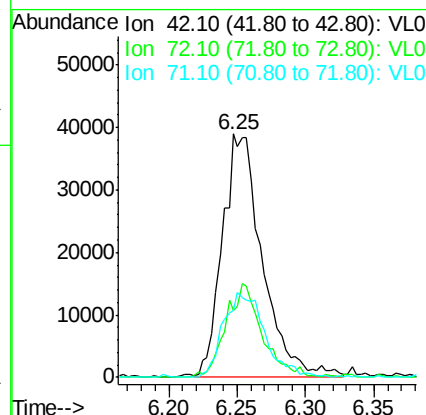
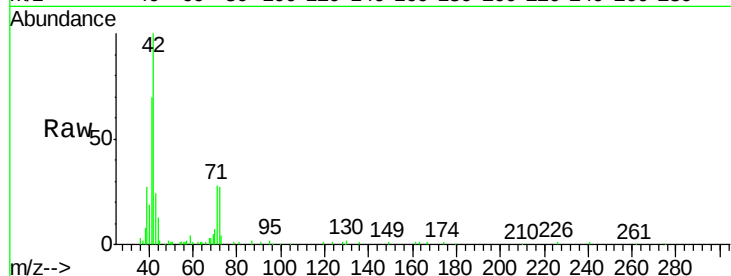
#41
Tetrahydrofuran
Concen: 0.51 ppbv m
RT: 6.25 min Scan# 1605
Delta R.T. 0.02 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	45.8#
71	0.0	29.7	44.5#

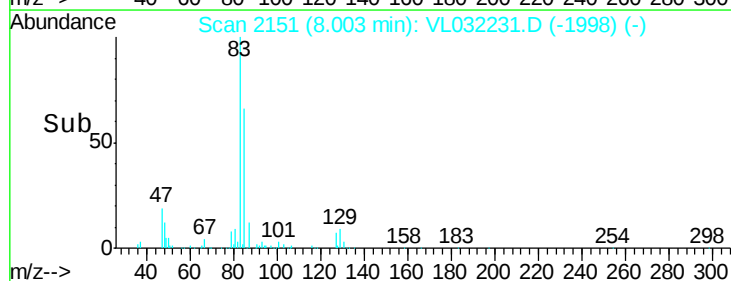
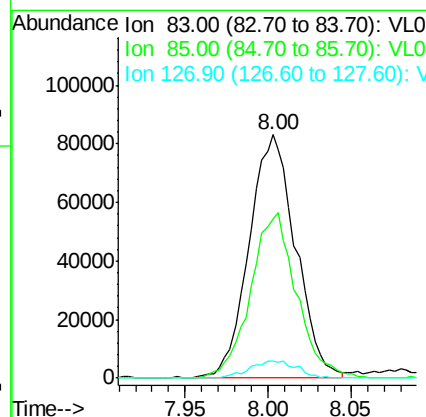
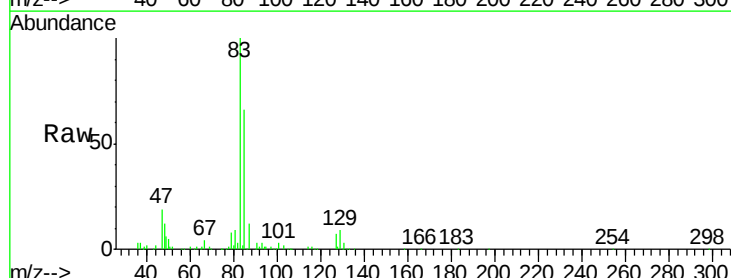
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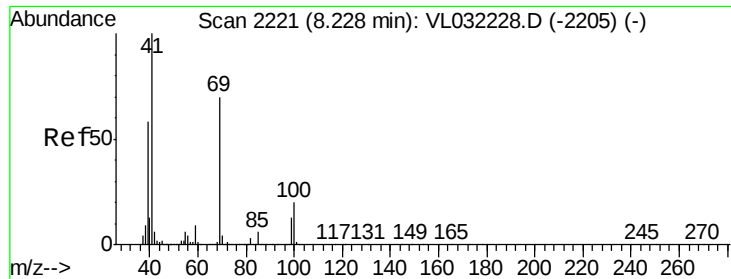
MMDadoda
7/13/2018 5:22:13 PM



#42
Bromodichloromethane
Concen: 0.53 ppbv
RT: 8.00 min Scan# 2151
Delta R.T. -0.01 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.6	76.0
127	7.1	6.1	9.1





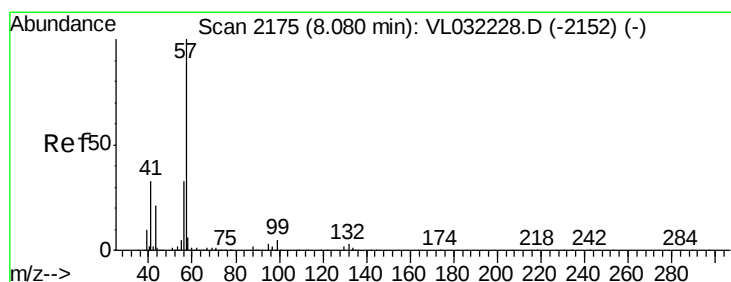
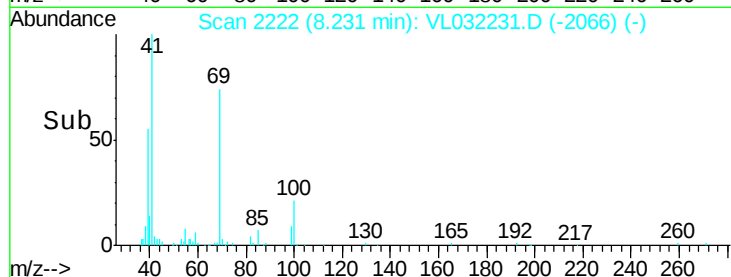
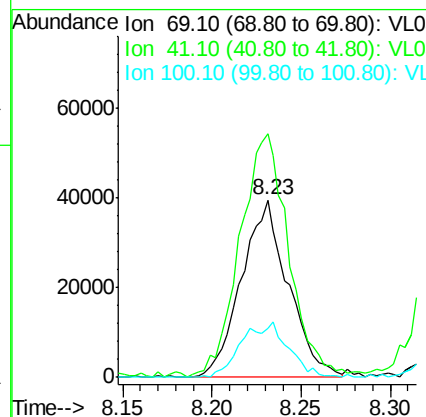
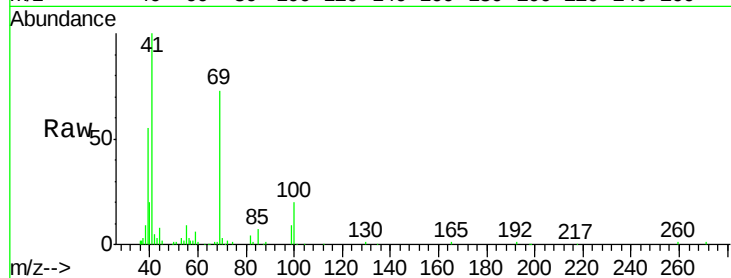
#43
Methvl Methacrvlate
Concen: 0.44 ppbv
RT: 8.23 min Scan# 2222
Delta R.T. 0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		71898		
41	143.8	116.3	174.5		
100	31.7	23.8	35.8		

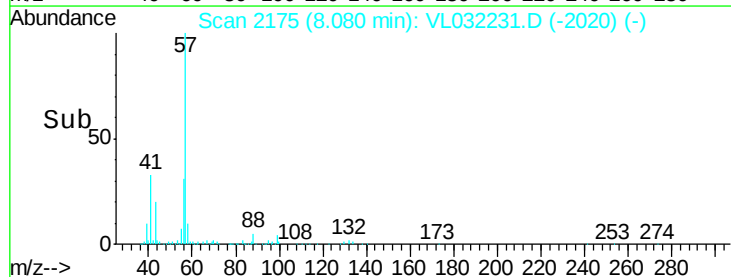
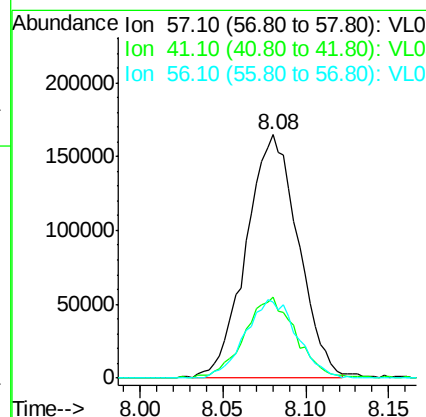
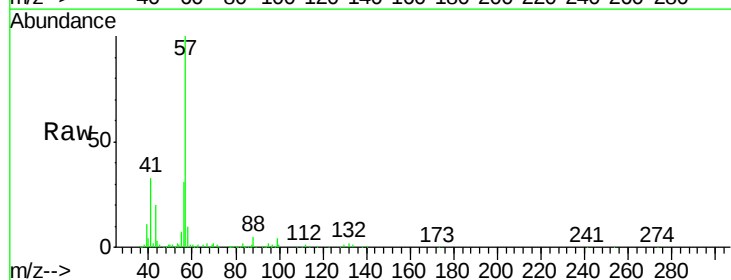
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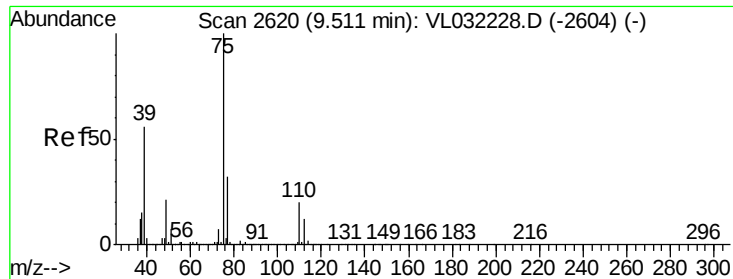
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7/13/2018 5:22:13 PM



#44
2,2,4-Trimethylpentane
Concen: 0.52 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		357281		
41	32.8	24.7	37.1		
56	32.5	25.4	38.0		





#45

t-1,3-Dichloropropene

Concen: 0.37 ppbv

RT: 9.50 min Scan# 2618

Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 73884

Ion Ratio Lower Upper

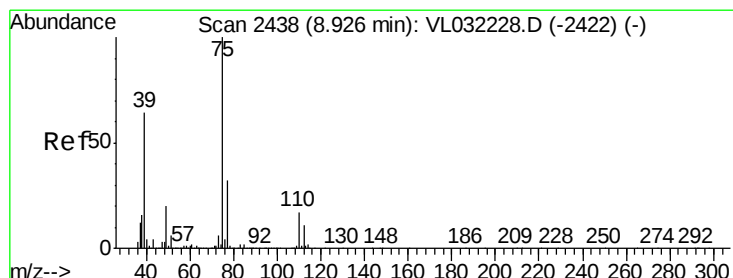
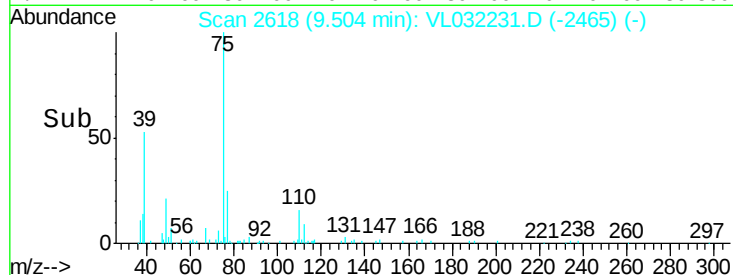
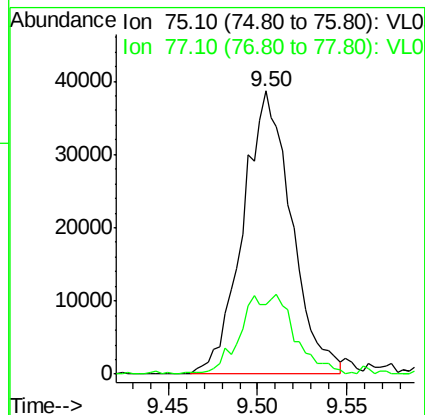
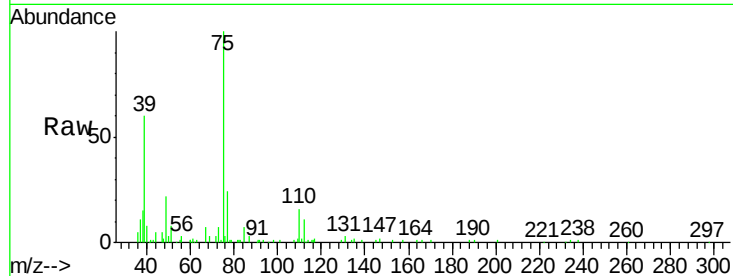
75 100

77 24.5 25.5 38.3#

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7/13/2018 5:22:13 PM



#46

cis-1,3-Dichloropropene

Concen: 0.47 ppbv m

RT: 8.92 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

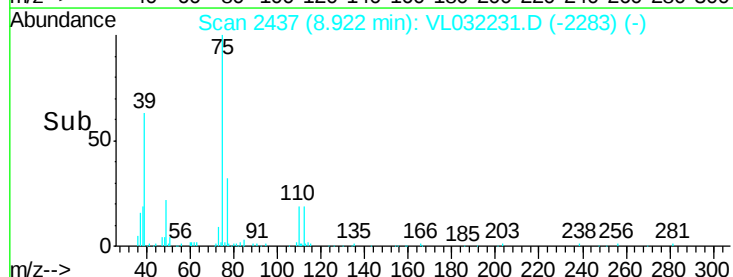
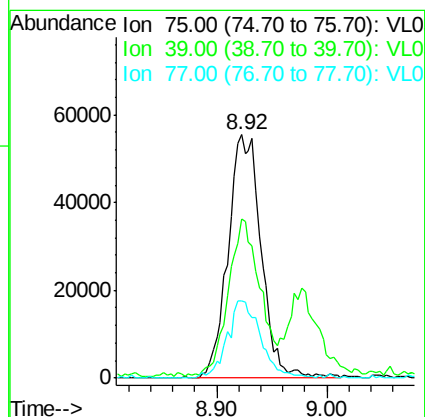
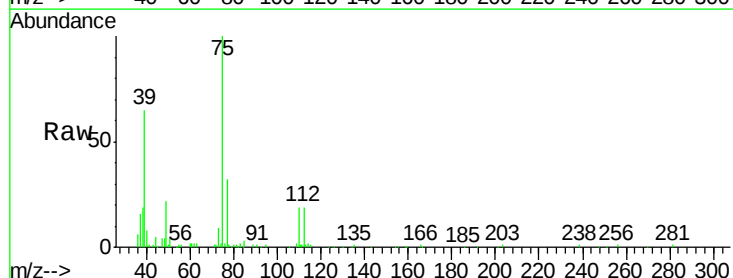
Tgt Ion: 75 Resp: 115620

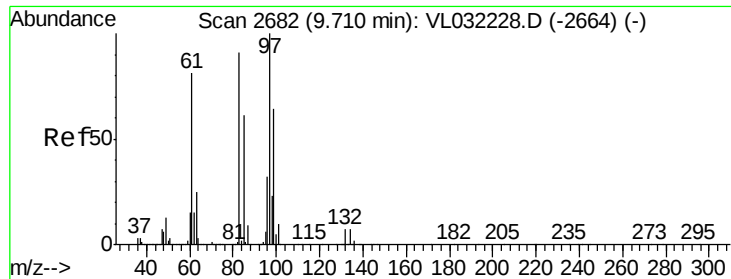
Ion Ratio Lower Upper

75 100

39 65.3 50.9 76.3

77 31.6 25.3 37.9





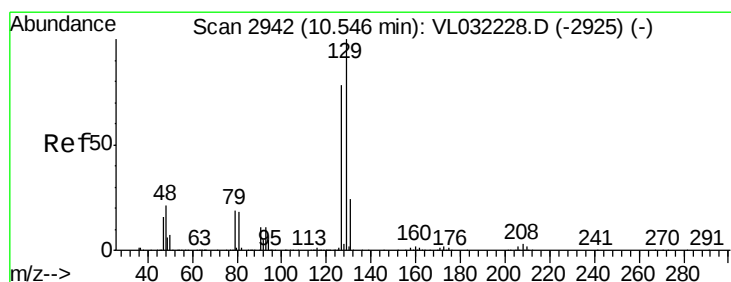
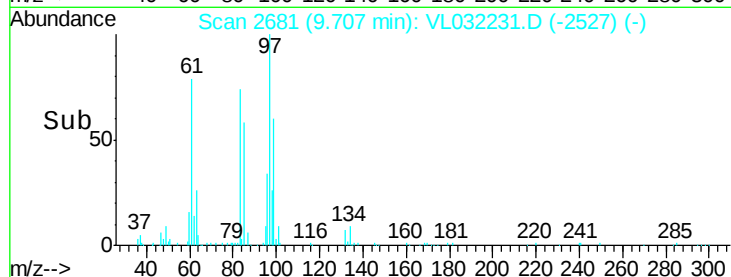
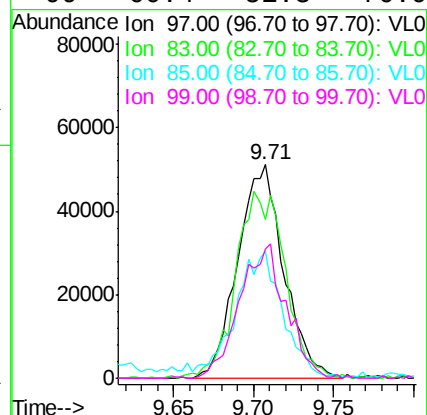
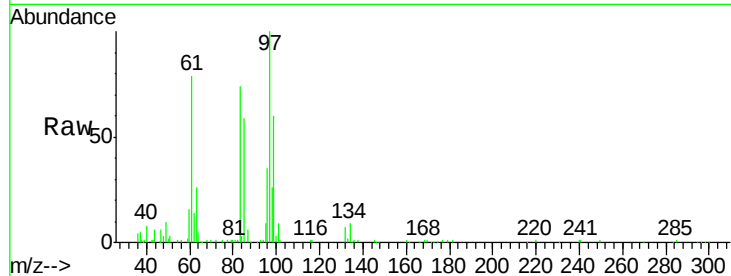
#47
 1,1,2-Trichloroethane
 Concen: 0.62 ppbv
 RT: 9.71 min Scan# 2681
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
97	100		
83	72.1	72.9	109.3#
85	58.9	49.3	73.9
99	60.4	51.3	76.9

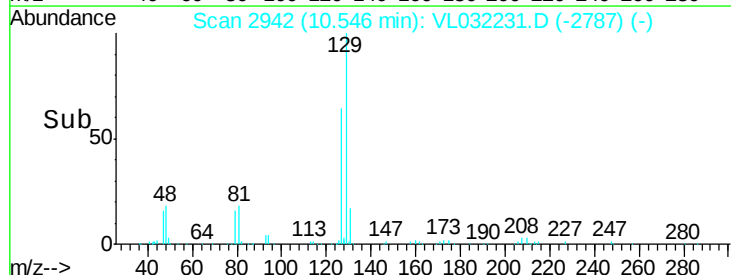
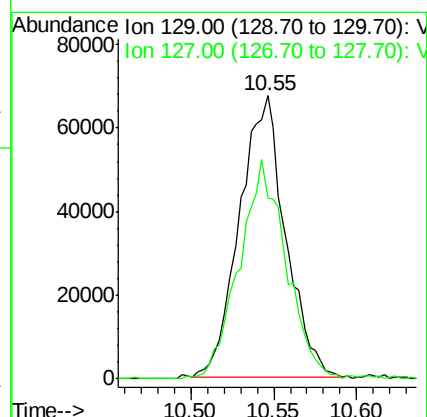
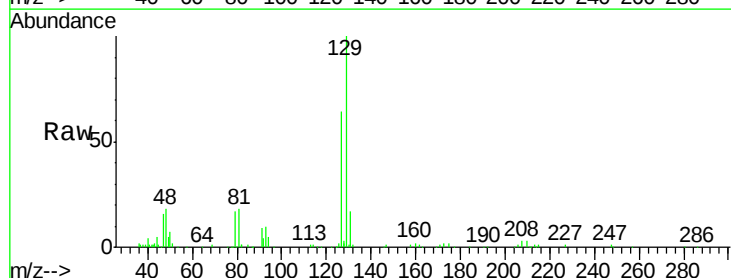
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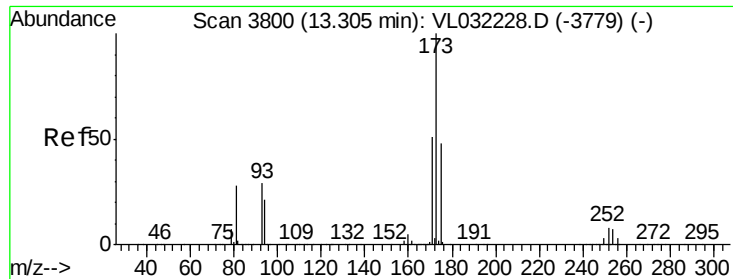
MMDadoda
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#48
 Dibromochloromethane
 Concen: 0.52 ppbv
 RT: 10.55 min Scan# 2942
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.1	39.3	117.9





#49

Bromoform

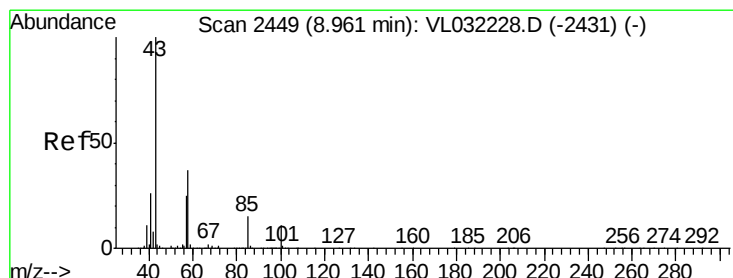
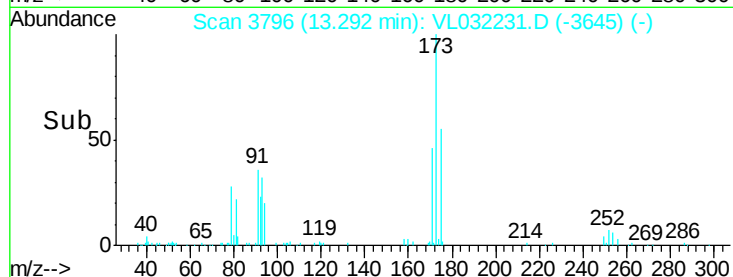
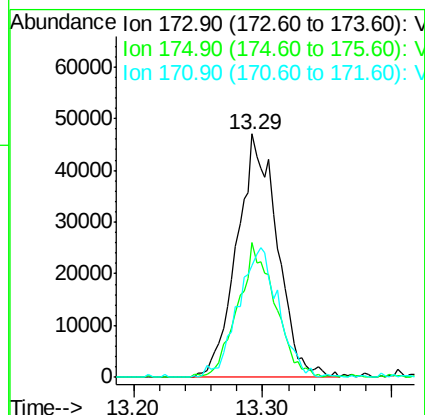
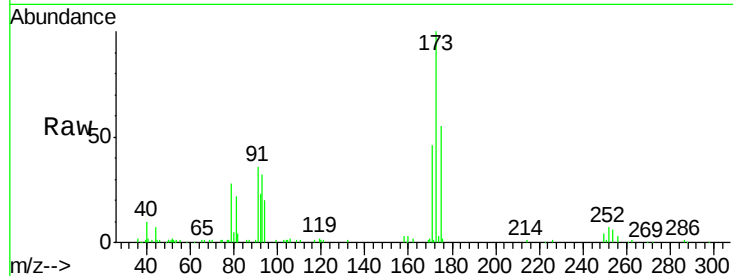
Concen: 0.49 ppbv m
 RT: 13.29 min Scan# 3796
 Delta R.T. -0.01 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.6	39.4	59.2
171	0.0	41.8	62.6

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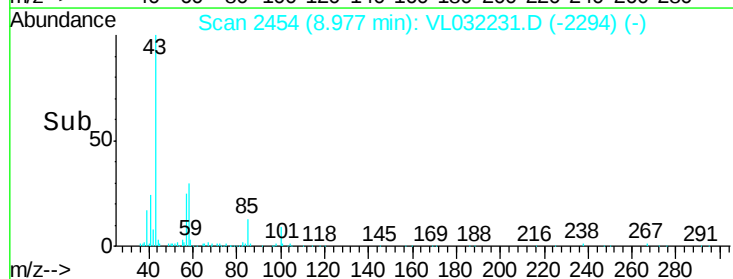
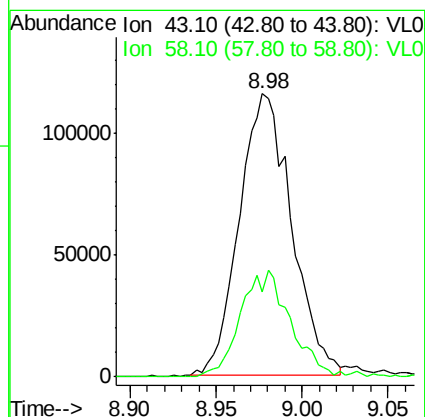
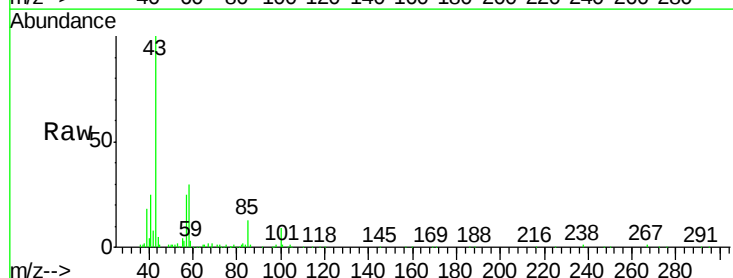


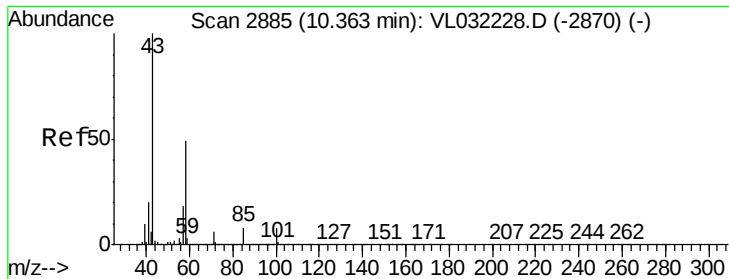
#50

4-Methyl-2-Pentanone

Concen: 0.57 ppbv
 RT: 8.98 min Scan# 2454
 Delta R.T. 0.02 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.5	44.3





#51

2-Hexanone

Concen: 0.56 ppbv m

RT: 10.38 min Scan# 2891

Delta R.T. 0.02 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

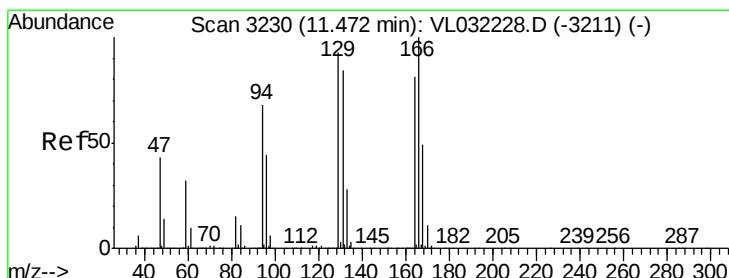
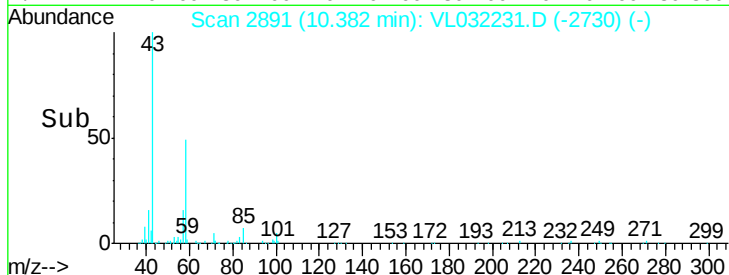
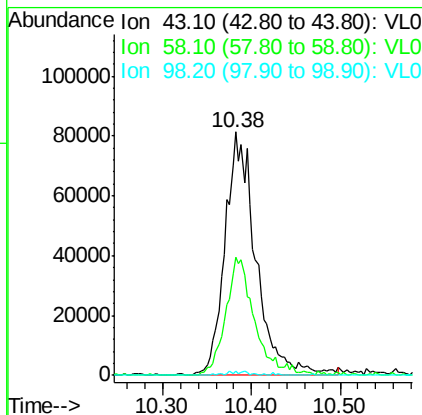
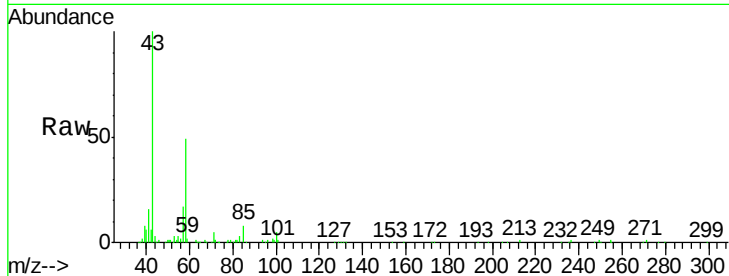
ClientSampled :

VSTDIC0.5

Tot Ion:	43	Resp:	198112
Ion Ratio	Lower	Upper	
43	100		
58	46.0	39.9	59.9
98	1.3	0.2	0.4#

Manual Integrations
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7/13/2018 5:22:13 PM



#52

Tetrachloroethene

Concen: 0.56 ppbv

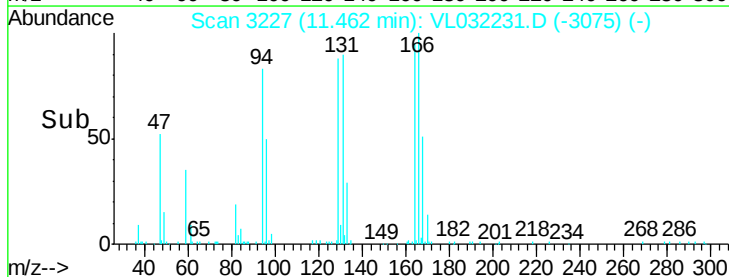
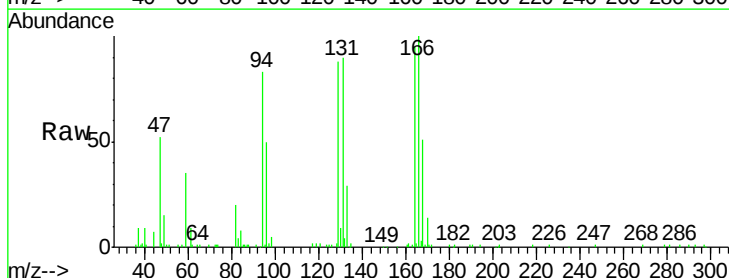
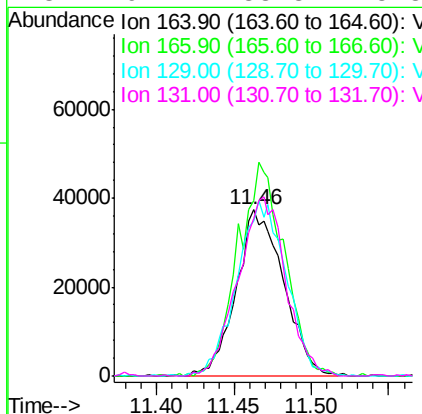
RT: 11.46 min Scan# 3227

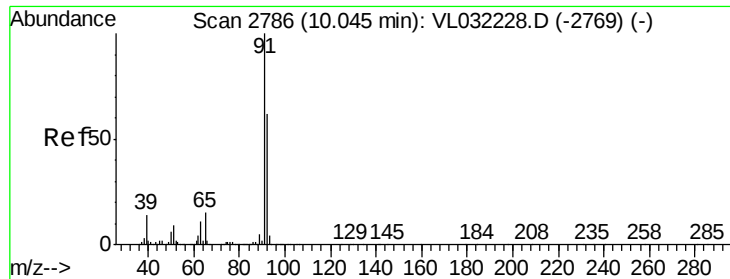
Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion:	164	Resp:	79477
Ion Ratio	Lower	Upper	
164	100		
166	105.4	99.3	148.9
129	92.5	92.0	138.0
131	94.7	83.8	125.8





#53

Toluene

Concen: 0.51 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 240367

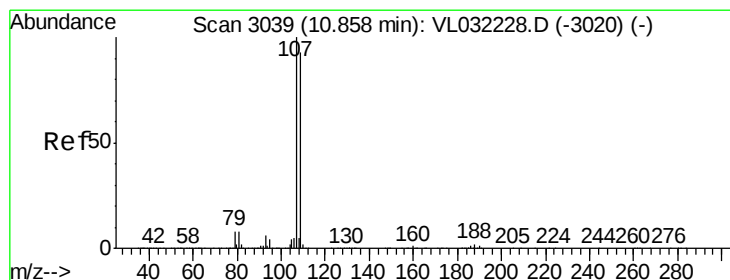
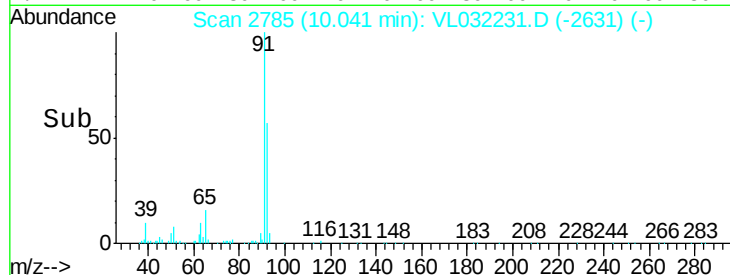
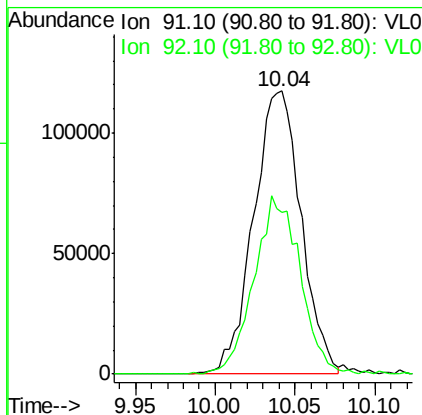
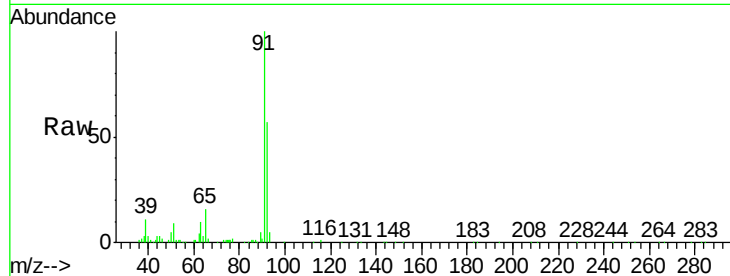
Ion Ratio Lower Upper

91 100

92 61.6 49.0 73.4

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7/13/2018 5:22:13 PM



#54

1,2-Dibromoethane

Concen: 0.58 ppbv

RT: 10.85 min Scan# 3038

Delta R.T. -0.00 min

Lab File: VL032231.D

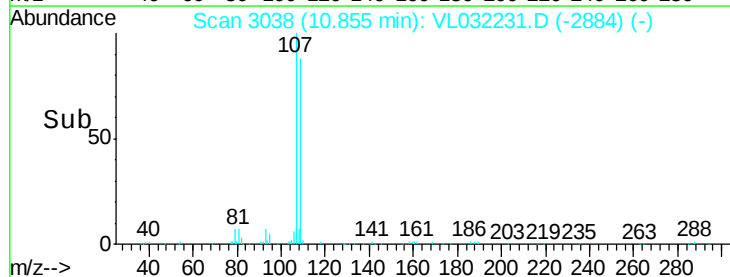
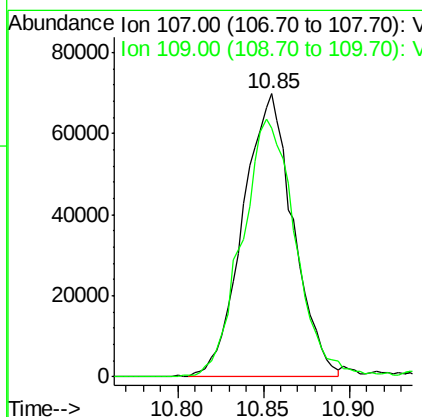
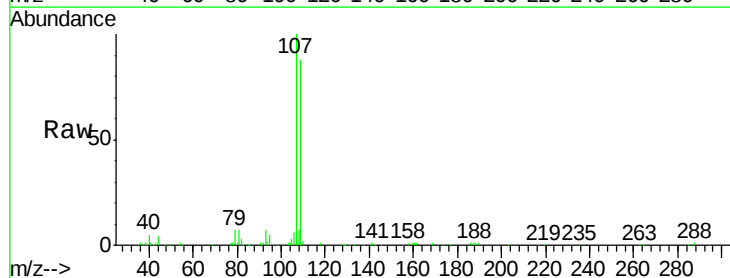
Acq: 12 Jul 2018 20:07

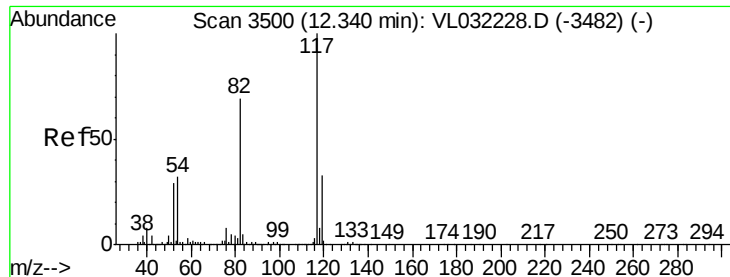
Tgt Ion: 107 Resp: 140906

Ion Ratio Lower Upper

107 100

109 87.2 74.3 111.5





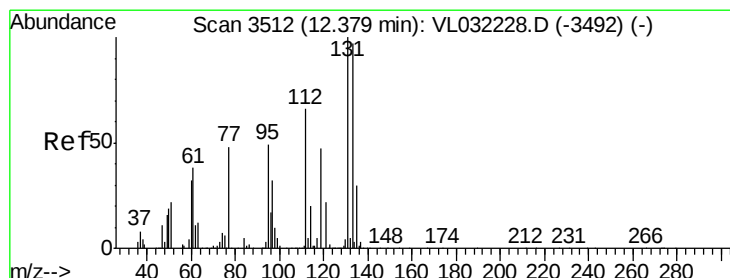
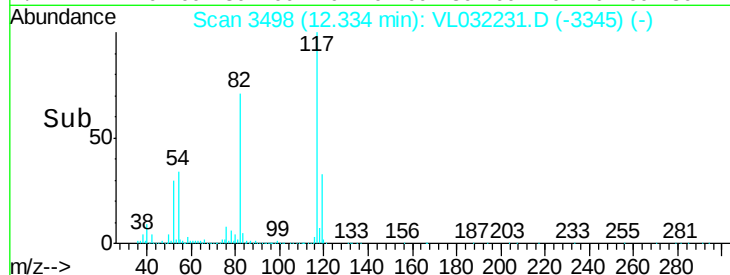
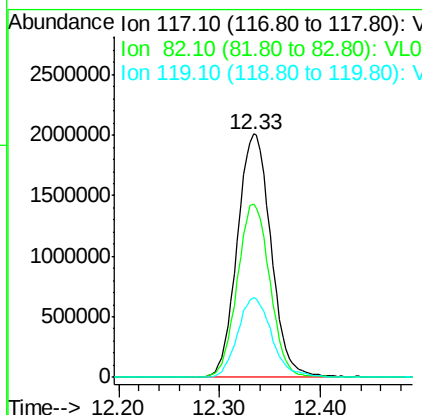
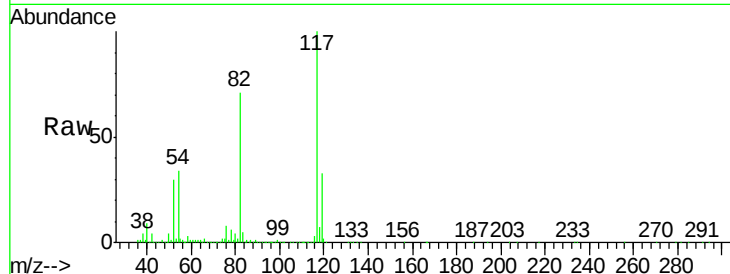
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.33 min Scan# 3498
Delta R.T. -0.01 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:117 Resp: 4637201
Ion Ratio Lower Upper
117 100
82 69.1 53.2 79.8
119 33.5 43.9 65.9#

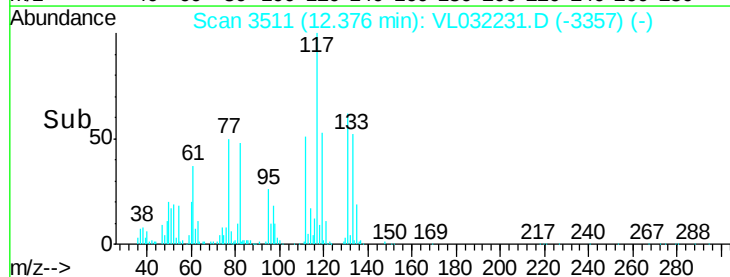
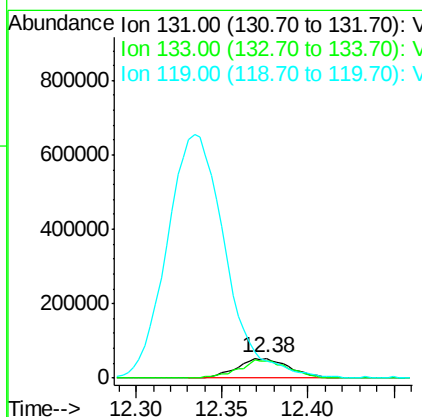
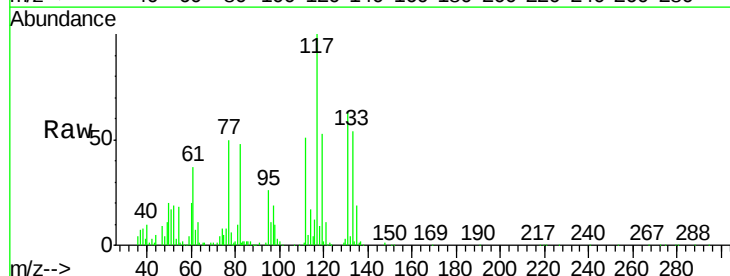
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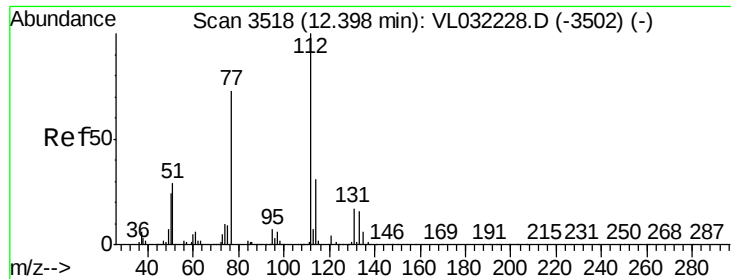
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7/13/2018 5:22:13 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.55 ppbv
RT: 12.38 min Scan# 3511
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion:131 Resp: 112693
Ion Ratio Lower Upper
131 100
133 88.3 75.2 112.8
119 1379.2 113.9 170.9#





#57

Chlorobenzene

Concen: 0.57 ppbv m

RT: 12.40 min Scan# 3519

Delta R.T. 0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

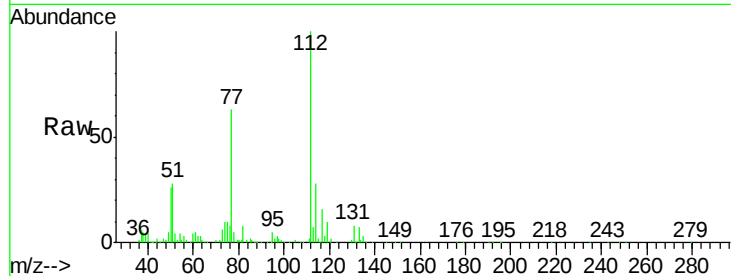
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	62.7	58.8	88.2
114	28.4	27.9	34.1

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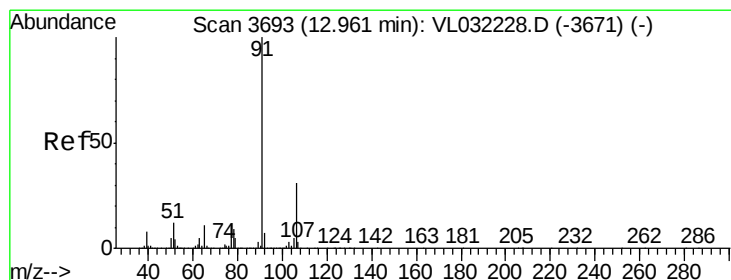
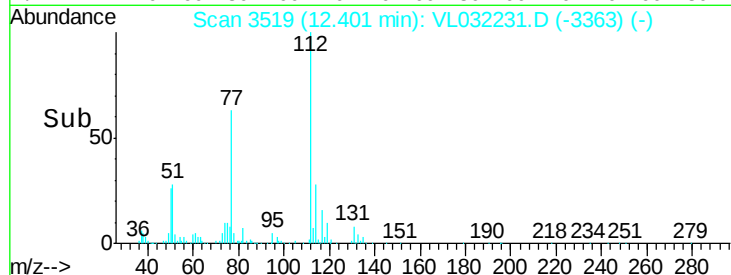
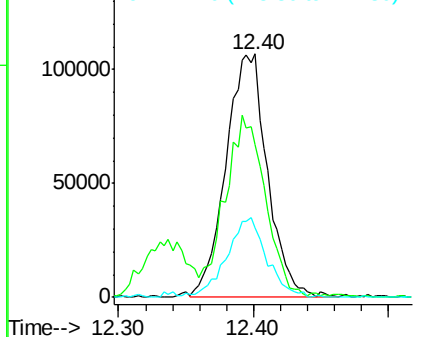
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.46 ppbv

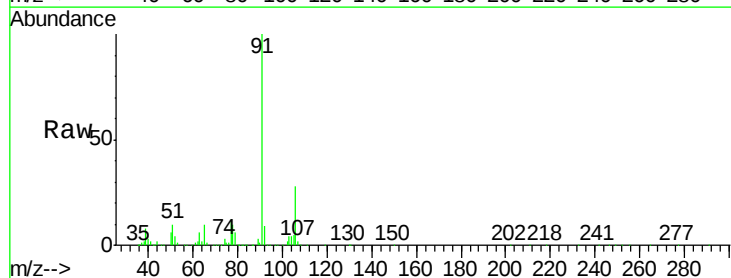
RT: 12.96 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VL032231.D

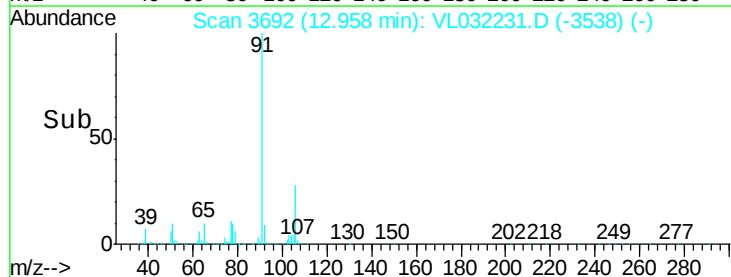
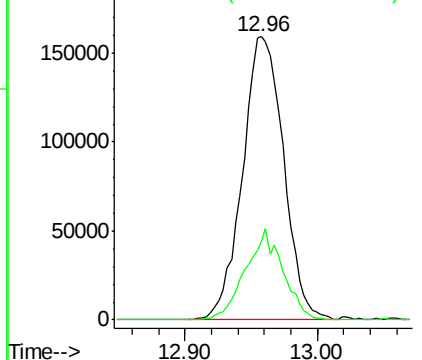
Acq: 12 Jul 2018 20:07

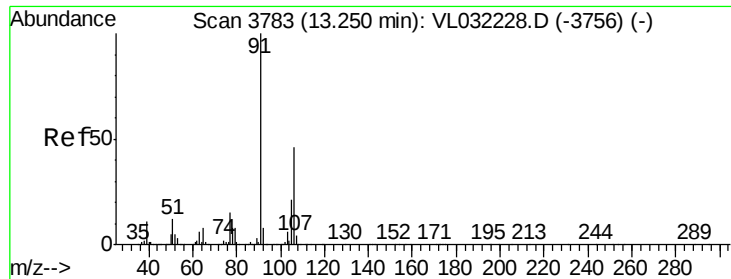
Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.7	24.5	36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





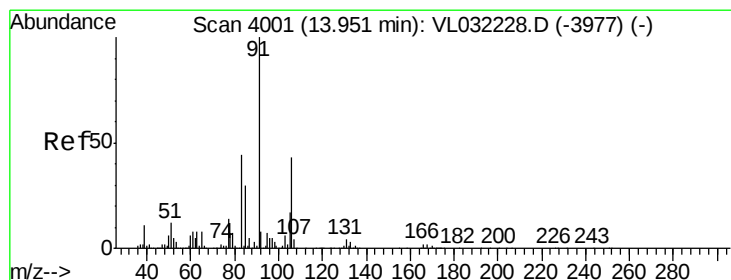
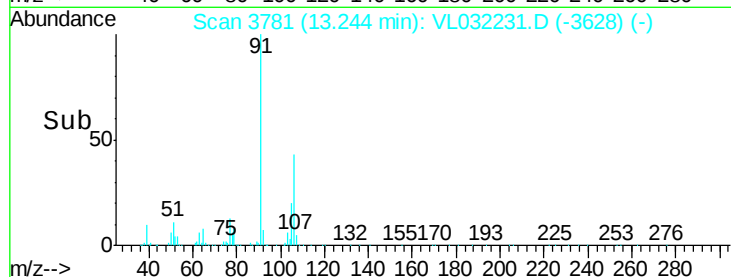
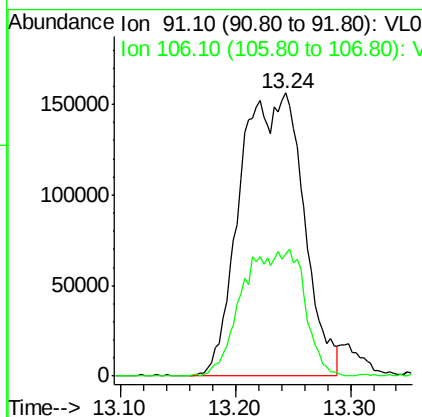
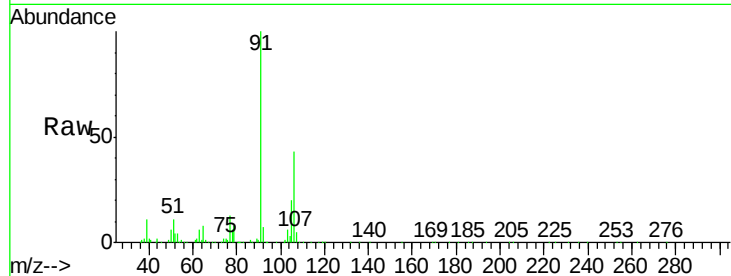
#59
m/p-Xylene
Concen: 1.00 ppbv m
RT: 13.24 min Scan# 3781
Delta R.T. -0.01 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 597373
Ion Ratio Lower Upper
91 100
106 43.8 36.4 54.6

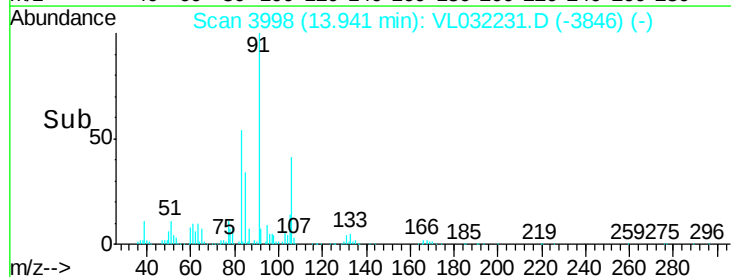
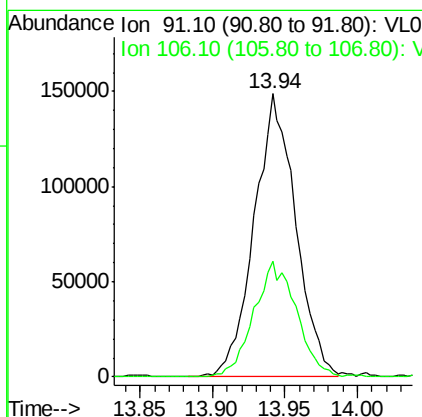
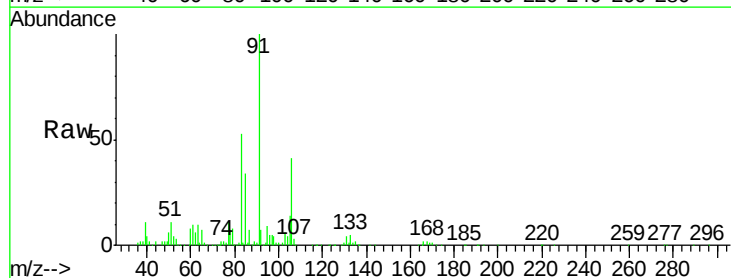
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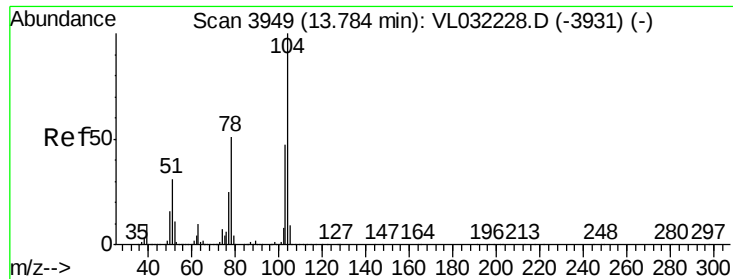
MMDadoda
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#60
o-Xylene
Concen: 0.50 ppbv
RT: 13.94 min Scan# 3998
Delta R.T. -0.01 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion: 91 Resp: 296598
Ion Ratio Lower Upper
91 100
106 42.2 21.9 65.5





#61

Stvrene

Concen: 0.40 ppbv

RT: 13.78 min Scan# 3947

Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

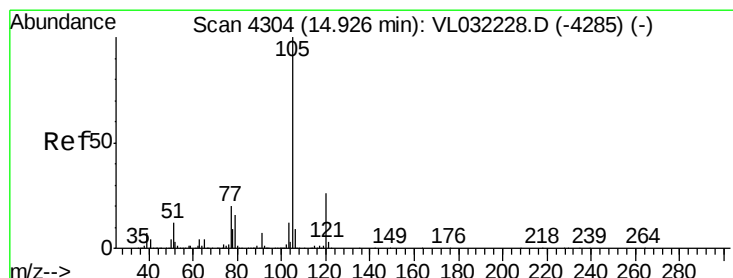
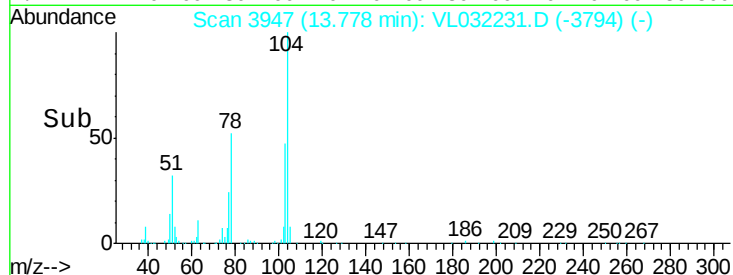
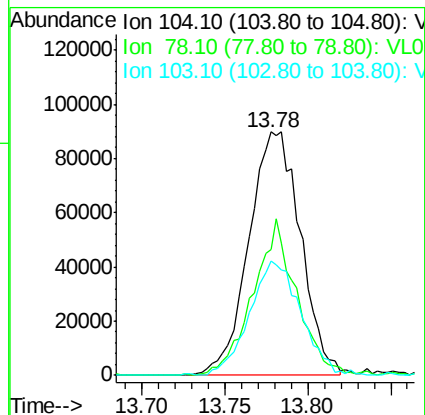
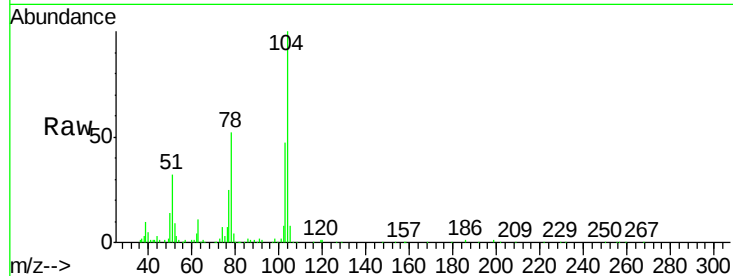
ClientSampleId :

VSTDIC0.5

Tot Ion:	104	Resp:	193290
Ion Ratio	Lower	Upper	
104	100		
78	55.4	43.4	65.0
103	47.4	38.0	57.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.46 ppbv

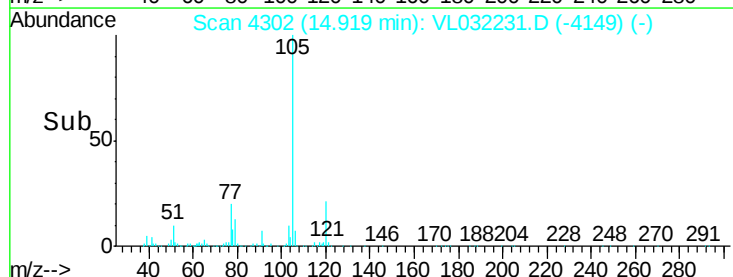
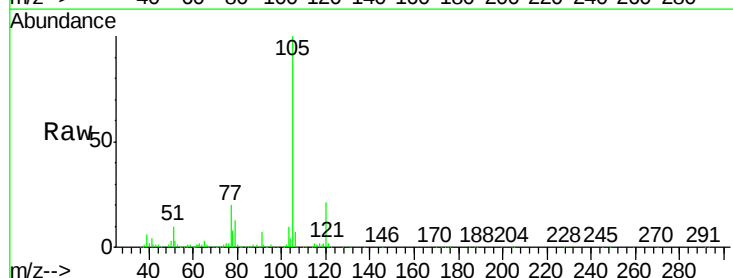
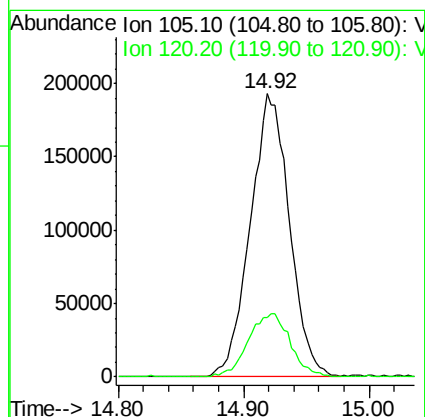
RT: 14.92 min Scan# 4302

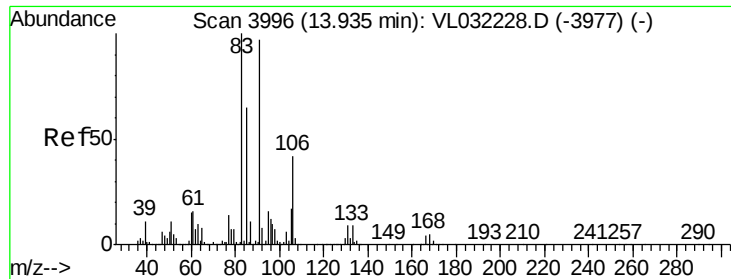
Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion:	105	Resp:	418893
Ion Ratio	Lower	Upper	
105	100		
120	24.1	20.2	30.2





#63

1,1,2,2-Tetrachloroethane

Concen: 0.54 ppbv

RT: 13.93 min Scan# 3995

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

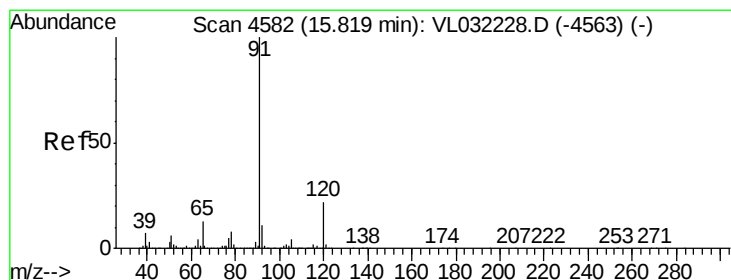
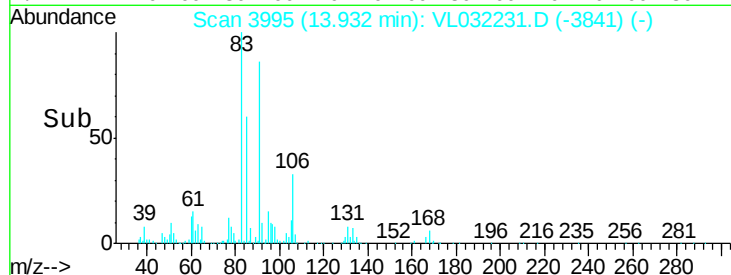
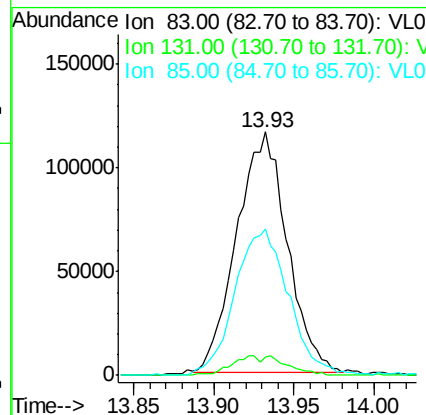
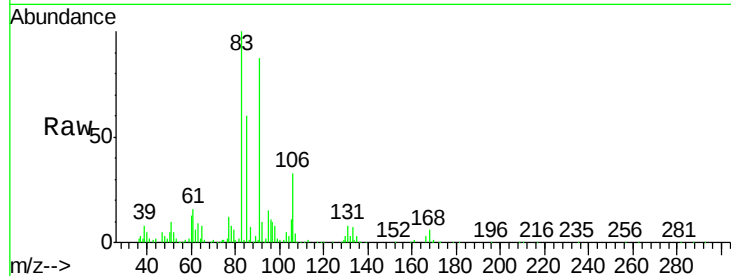
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	250816
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.3	12.8
85	64.9	32.5	97.5

Manual Integrations
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#64

n-propylbenzene

Concen: 0.43 ppbv m

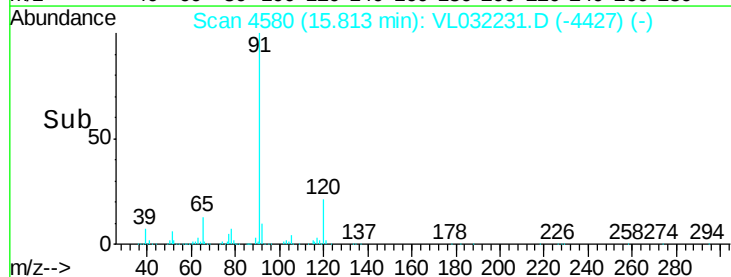
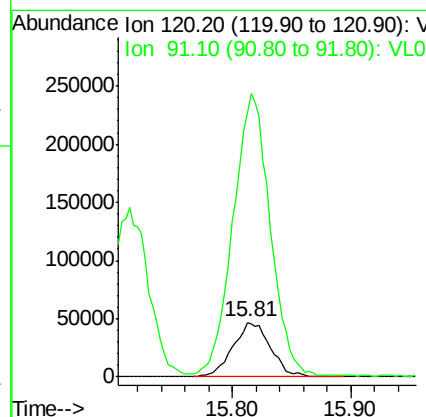
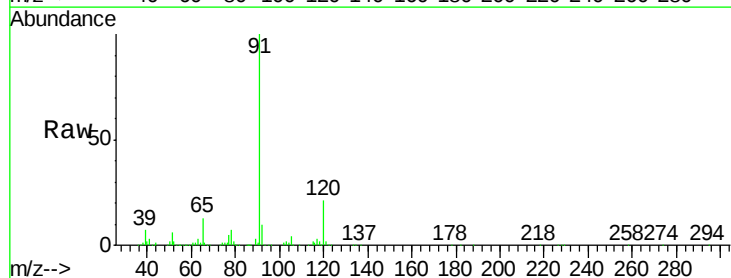
RT: 15.81 min Scan# 4580

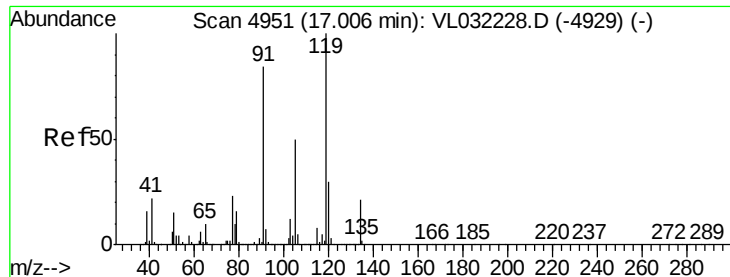
Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion:	120	Resp:	102344
Ion Ratio	Lower	Upper	
120	100		
91	522.3	385.0	577.4





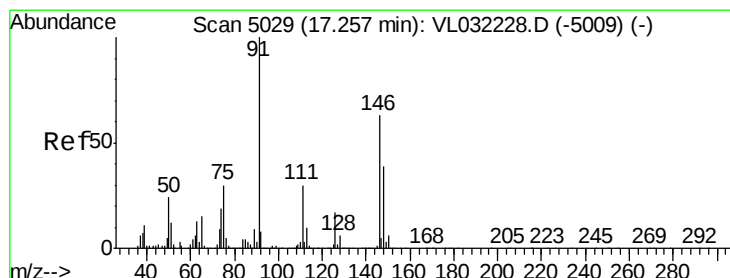
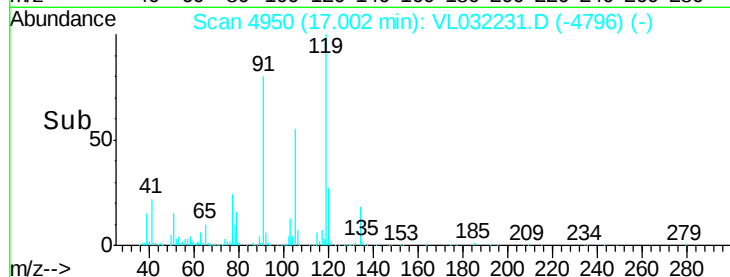
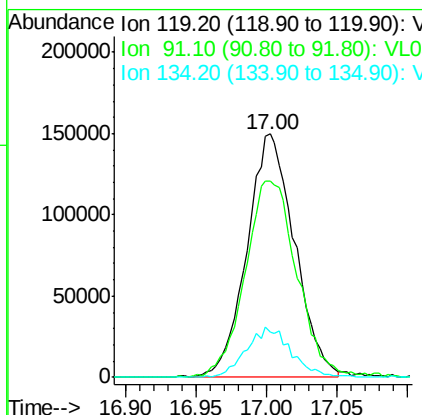
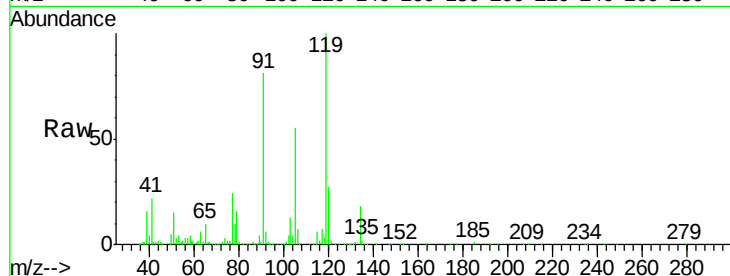
#65
tert-Butylbenzene
Concen: 0.44 ppbv
RT: 17.00 min Scan# 4950
Delta R.T. -0.00 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	349431		
91	89.6	68.6	102.8	
134	19.7	15.4	23.2	

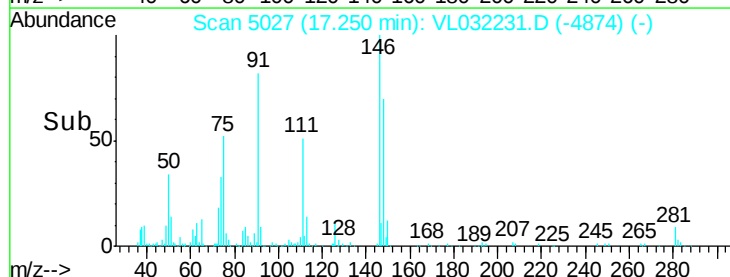
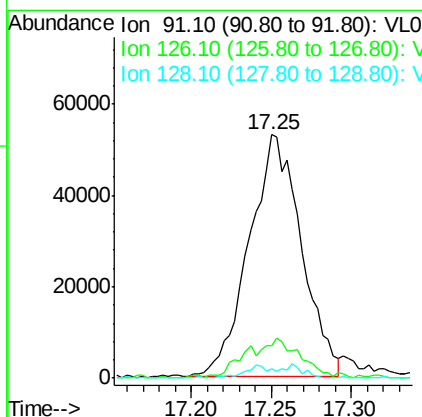
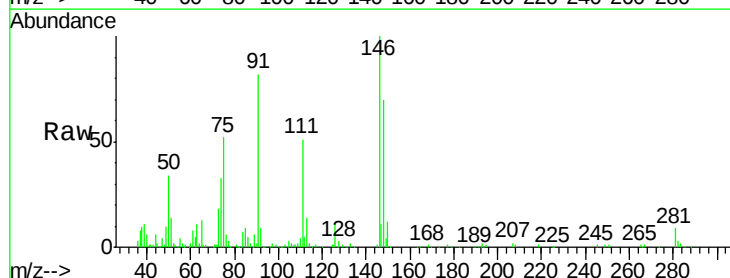
Manual Integrations
APPROVED

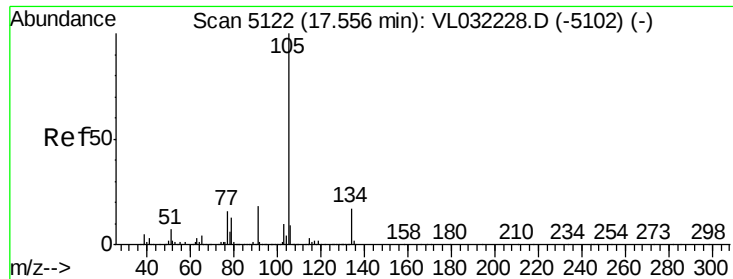
MMDadoda
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#66
Benzyl Chloride
Concen: 0.25 ppbv
RT: 17.25 min Scan# 5027
Delta R.T. -0.01 min
Lab File: VL032231.D
Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	119799		
126	17.6	13.4	20.0	
128	5.0	4.5	6.7	





#67

sec-Butylbenzene

Concen: 0.42 ppbv

RT: 17.56 min Scan# 5122

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 493564

Ion Ratio Lower Upper

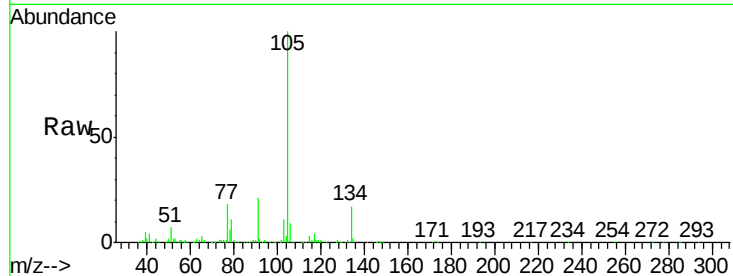
105 100

134 18.1 14.2 21.2

Manual Integrations
APPROVED

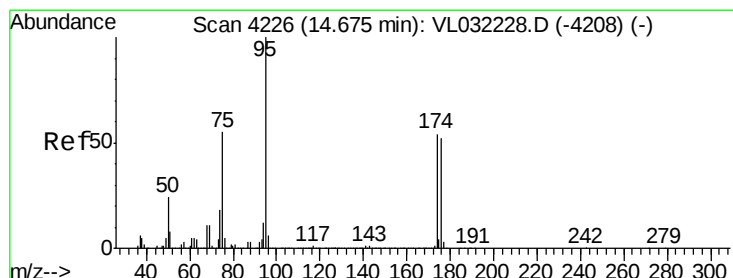
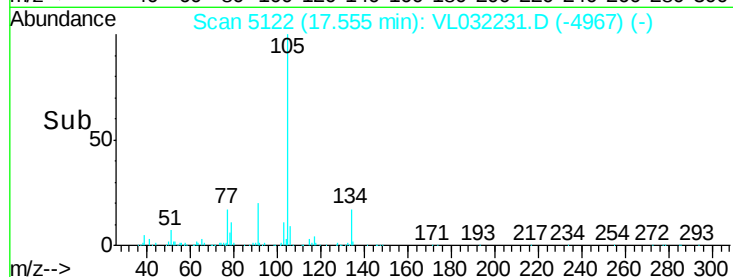
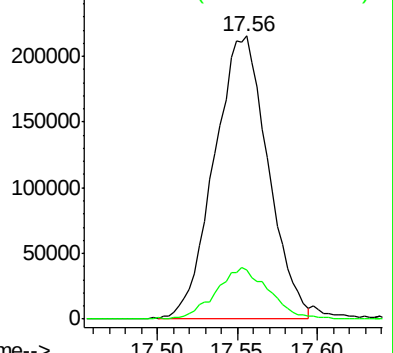
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.37 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

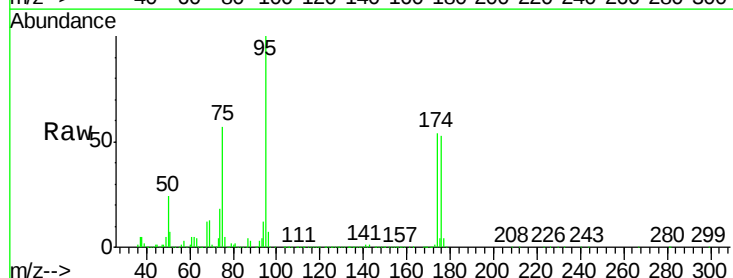
Tgt Ion: 95 Resp: 3691105

Ion Ratio Lower Upper

95 100

174 54.8 44.6 67.0

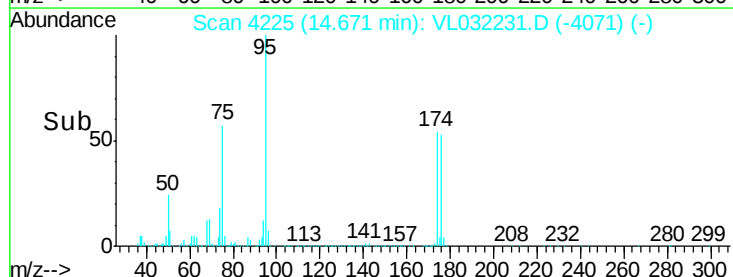
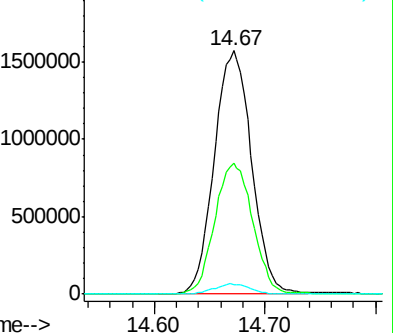
175 4.0 3.3 4.9

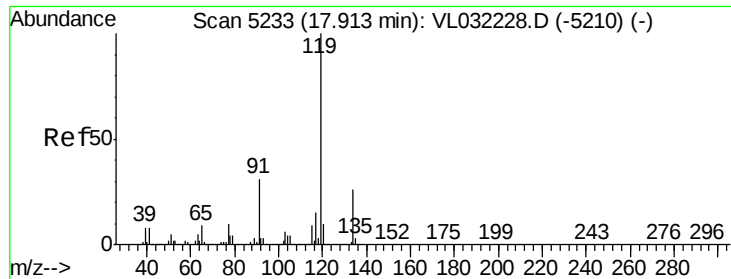


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





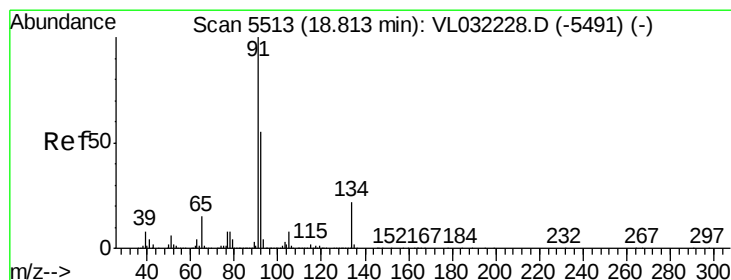
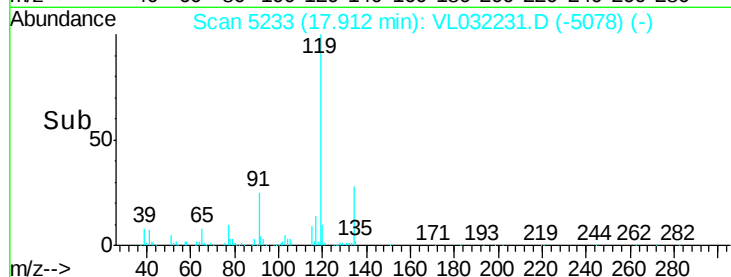
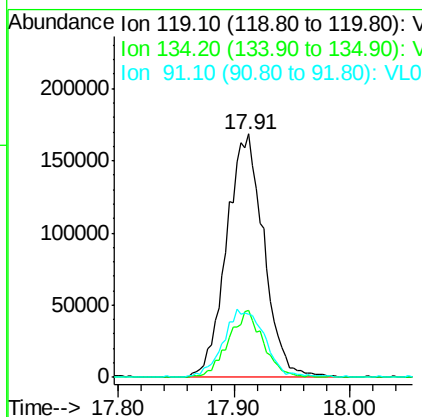
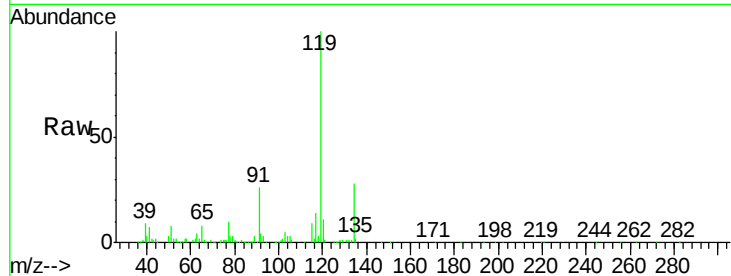
#69
 p-Isopropyltoluene
 Concen: 0.40 ppbv
 RT: 17.91 min Scan# 5233
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	376026		
134	25.8	20.1	30.1	
91	31.2	24.2	36.2	

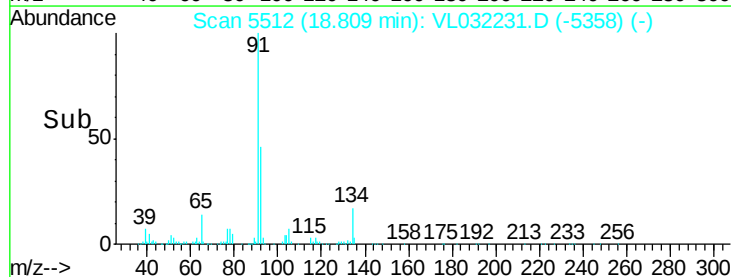
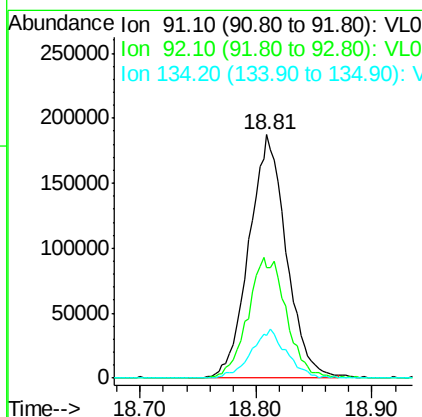
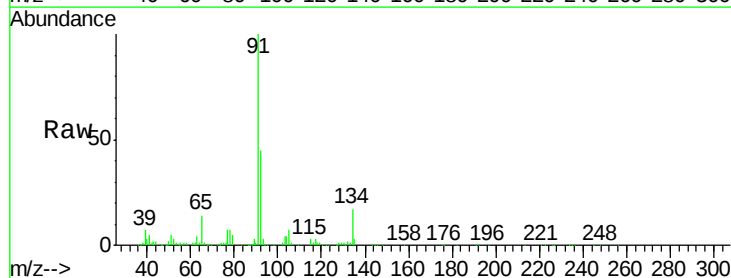
Manual Integrations
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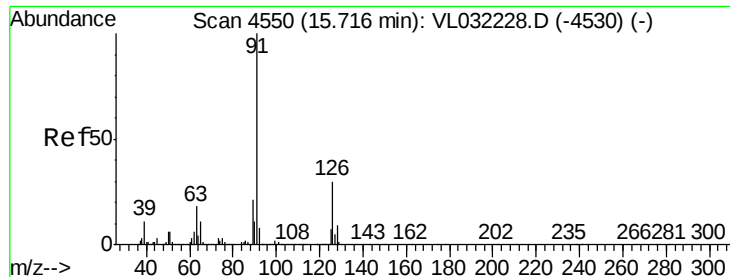
MMDadoda
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#70
 n-Butylbenzene
 Concen: 0.43 ppbv
 RT: 18.81 min Scan# 5512
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	418826		
92	51.1	43.6	65.4	
134	19.3	17.1	25.7	





#71

2-Chlorotoluene

Concen: 0.45 ppbv

RT: 15.71 min Scan# 4549

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 316839

Ion Ratio Lower Upper

91 100

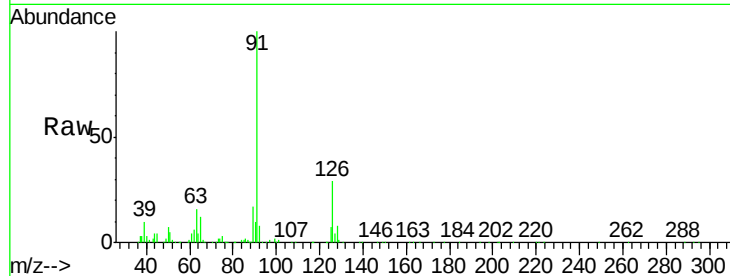
126 27.9 11.7 46.7

Manual Integrations

APPROVED

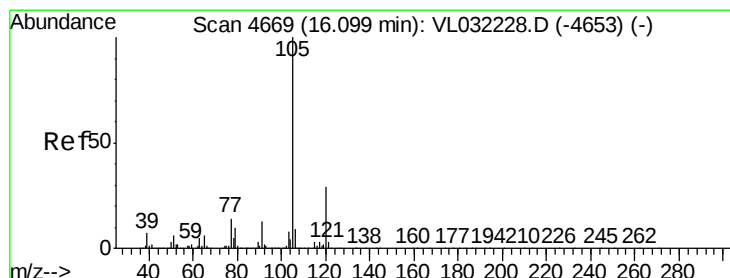
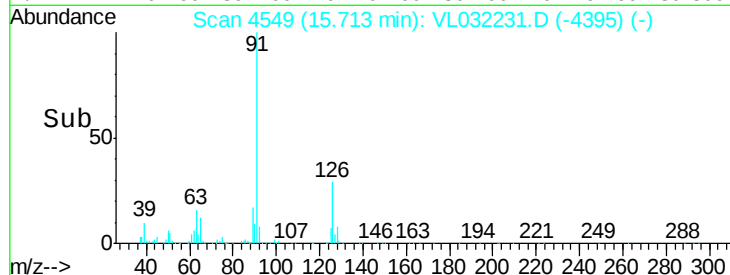
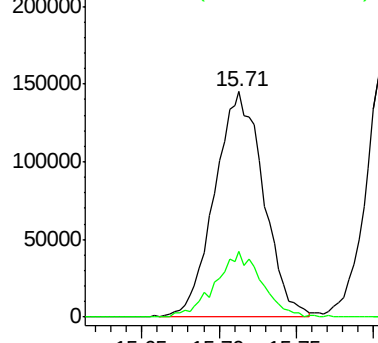
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.40 ppbv

RT: 16.09 min Scan# 4667

Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion: 105 Resp: 303994

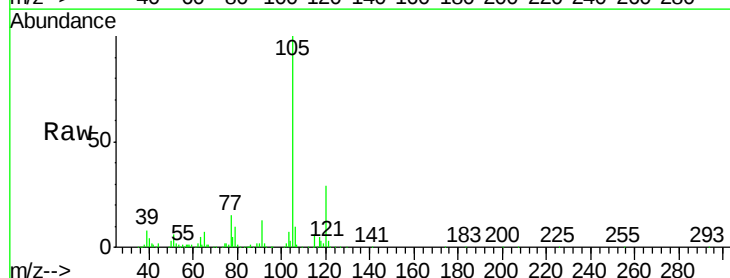
Ion Ratio Lower Upper

105 100

120 29.8 23.3 34.9

91 15.3 10.3 15.5

77 15.2 11.5 17.3

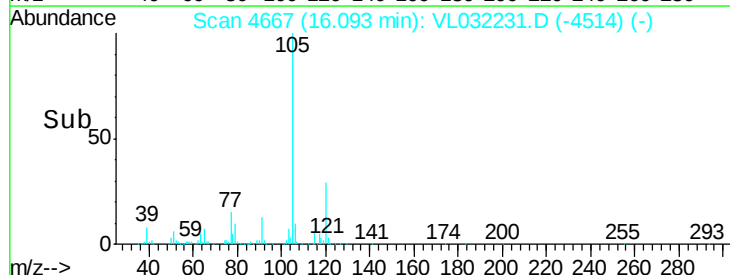
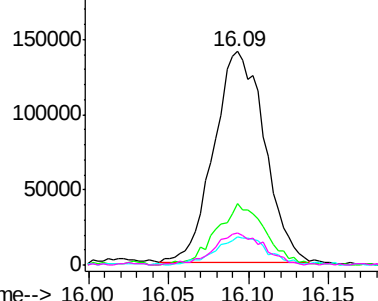


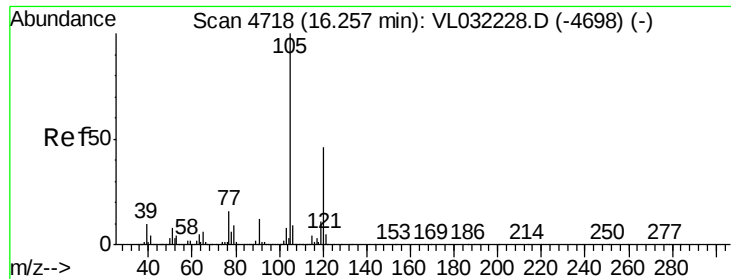
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 0.39 ppbv

RT: 16.25 min Scan# 4717

Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.5

Tot Ion:105 Resp: 282240

Ion Ratio Lower Upper

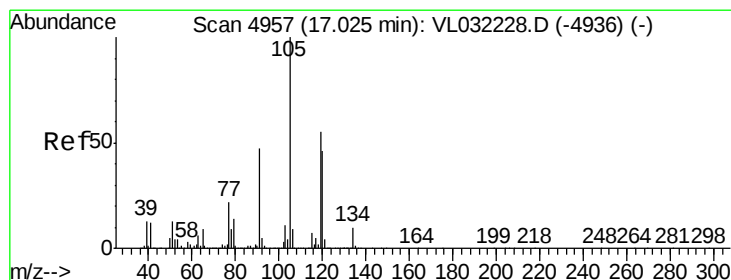
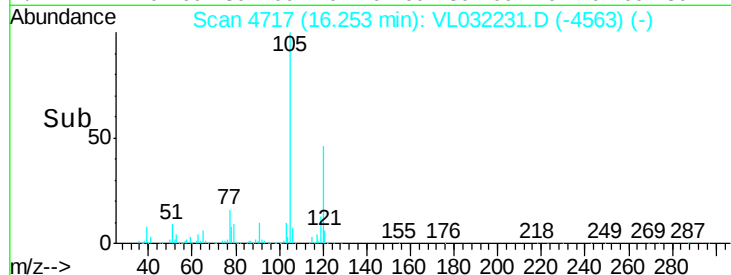
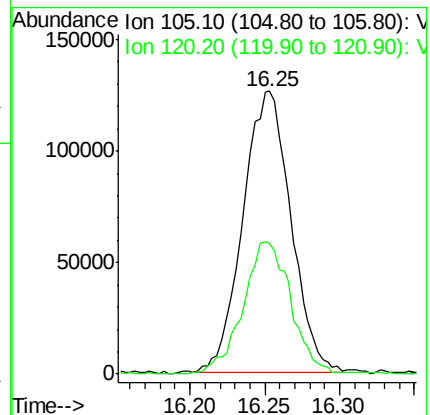
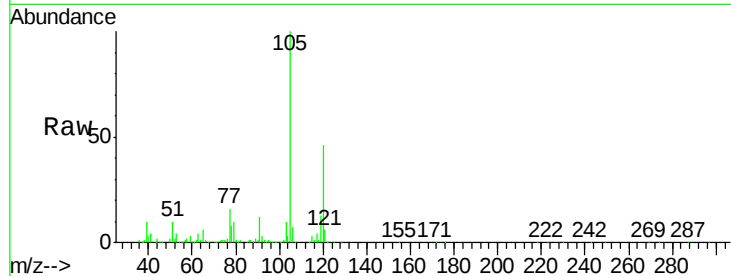
105 100

120 45.9 36.6 54.8

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 0.43 ppbv

RT: 17.02 min Scan# 4955

Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion:105 Resp: 312953

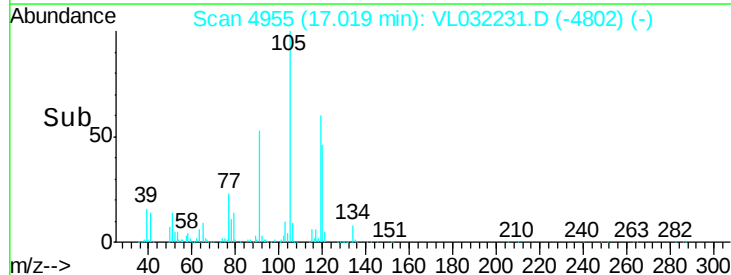
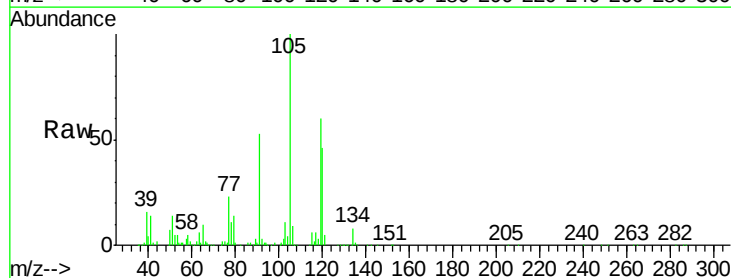
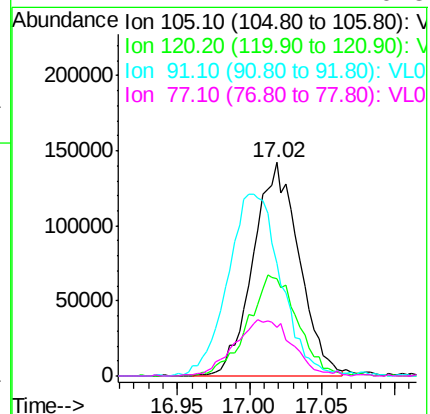
Ion Ratio Lower Upper

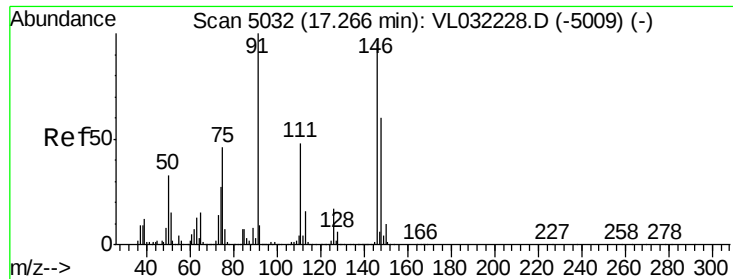
105 100

120 45.2 37.0 55.4

91 51.7 38.2 57.2

77 22.4 17.7 26.5





#75

1,3-Dichlorobenzene

Concen: 0.48 ppbv

RT: 17.26 min Scan# 5030

Delta R.T. -0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

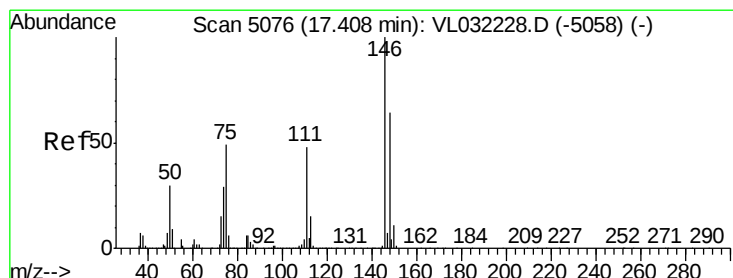
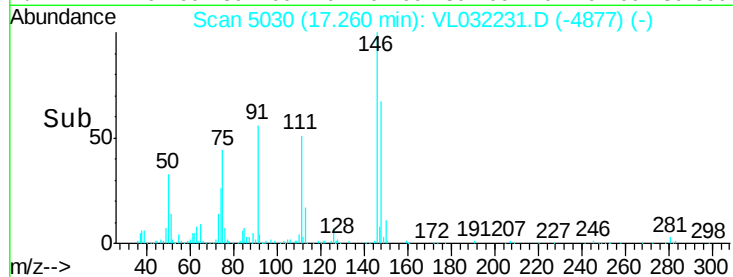
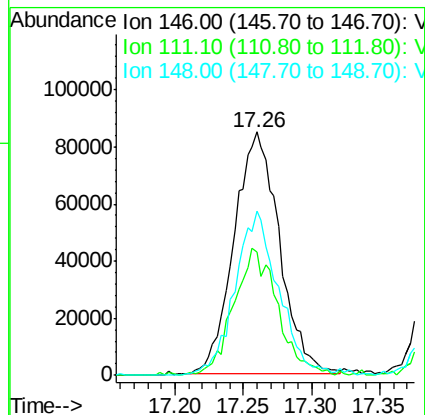
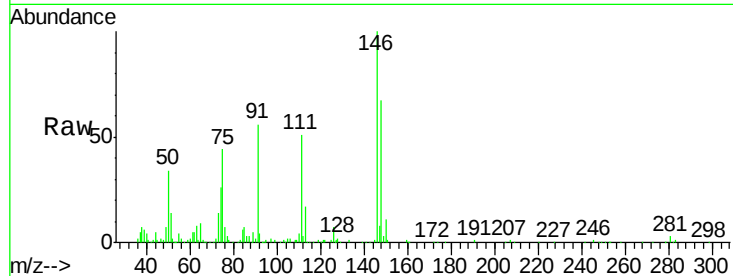
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	196693
Ion Ratio	Lower	Upper	
146	100		
111	51.1	24.9	74.7
148	65.6	31.9	95.5

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 0.44 ppbv

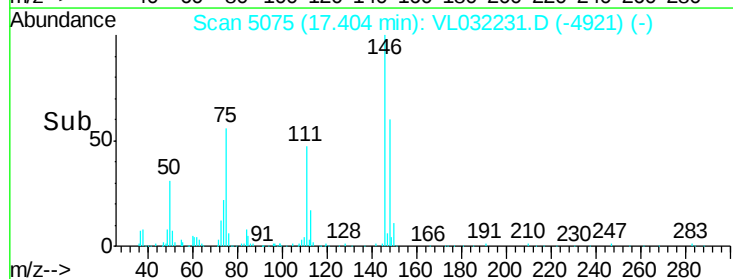
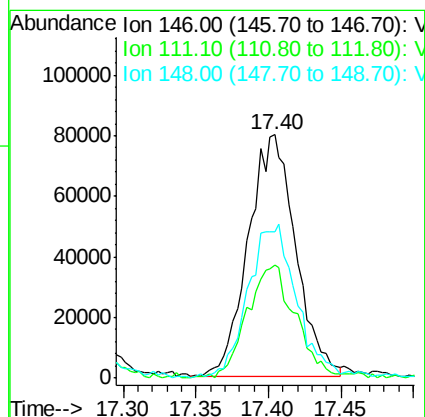
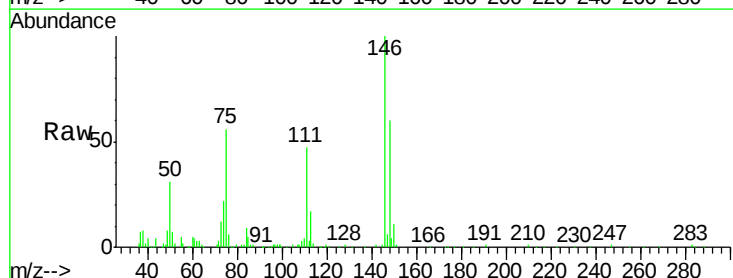
RT: 17.40 min Scan# 5075

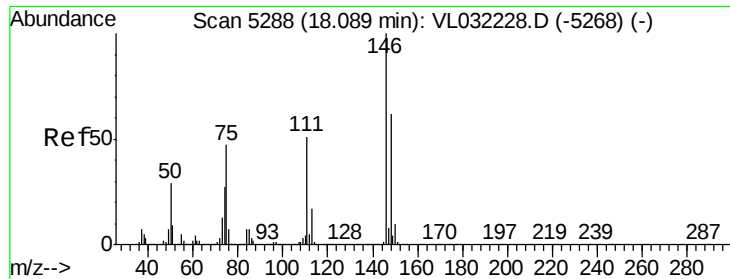
Delta R.T. -0.00 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion:	146	Resp:	181625
Ion Ratio	Lower	Upper	
146	100		
111	48.9	24.6	73.6
148	66.8	32.3	96.9





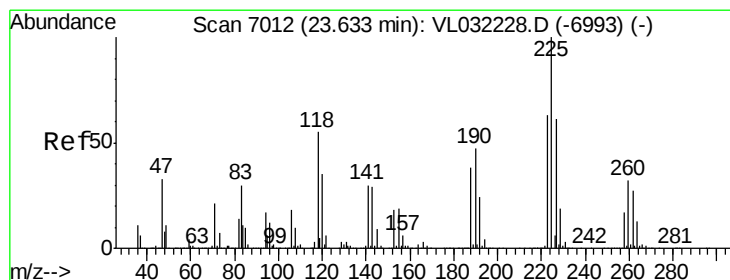
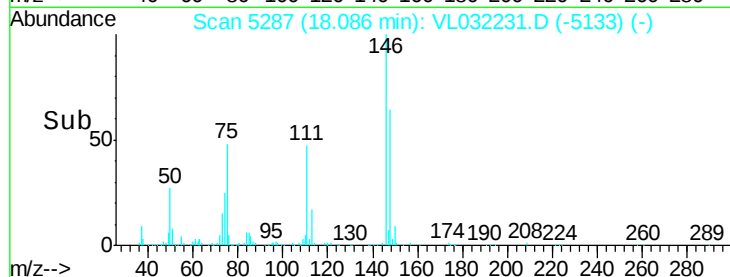
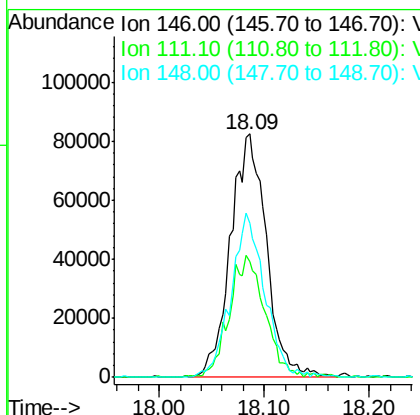
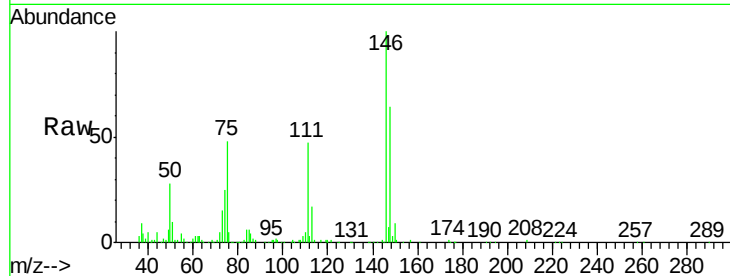
#77
 1,2-Dichlorobenzene
 Concen: 0.48 ppbv m
 RT: 18.09 min Scan# 5287
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	26.1	78.3#
148	0.0	32.0	96.0#

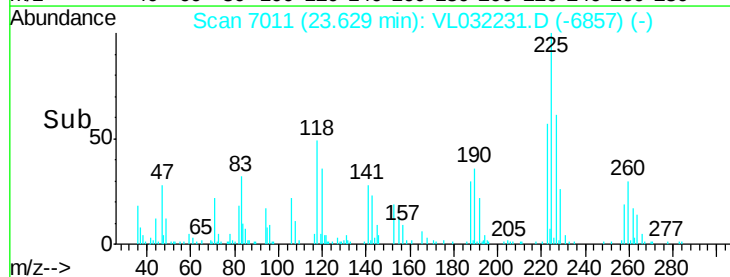
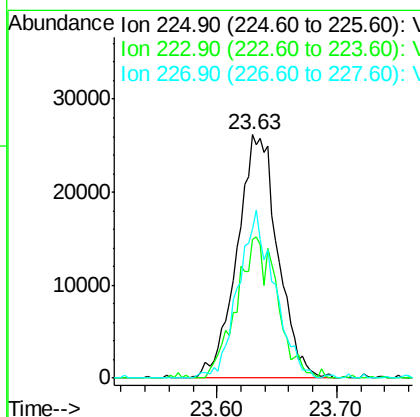
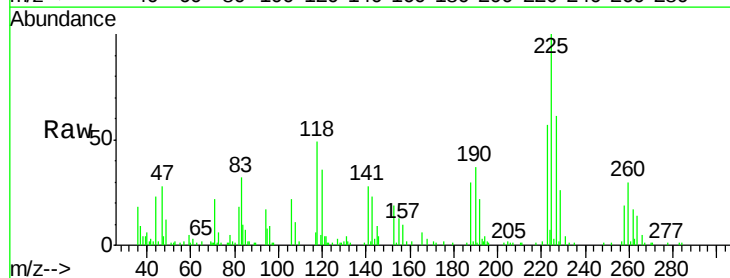
Manual Integrations
 APPROVED

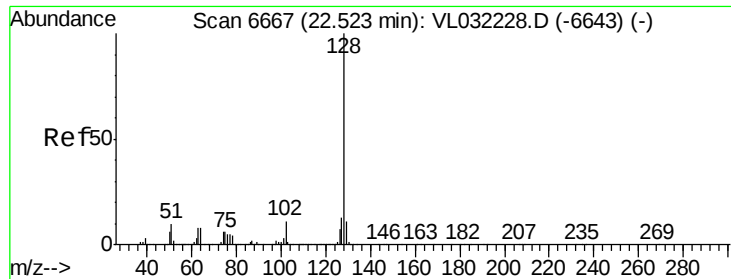
MMDadoda
 7/13/2018 5:22:13 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.44 ppbv m
 RT: 23.63 min Scan# 7011
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	58.8	50.3	75.5
227	61.8	50.9	76.3





#79

Naphthalene

Concen: 0.20 ppbv m

RT: 22.53 min Scan# 6669

Delta R.T. 0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Instrument :

MSVOA_L

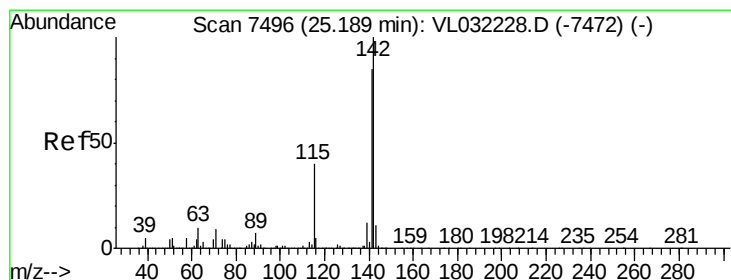
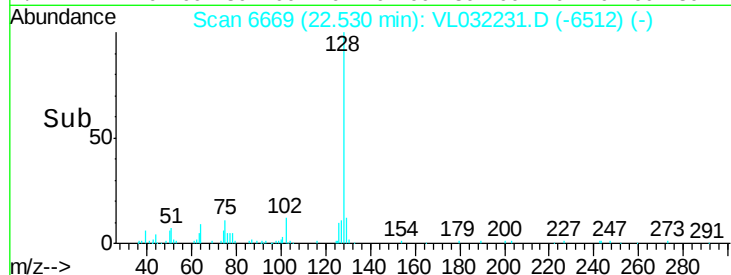
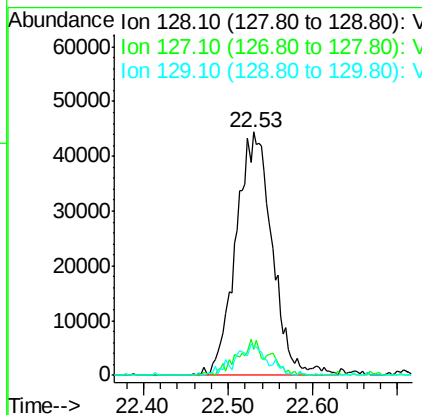
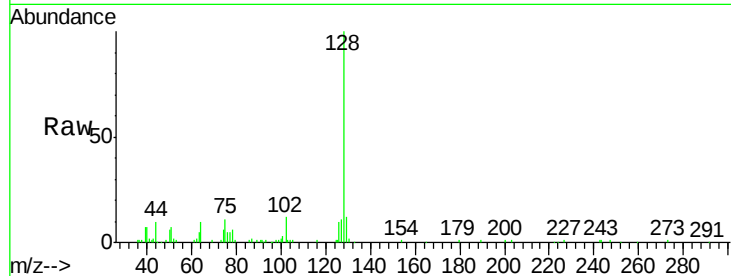
ClientSampleId :

VSTDIC0.5

Tot Ion:	128	Resp:	132289
Ion Ratio		Lower	Upper
128	100		
127	10.9	10.0	15.0
129	11.6	9.0	13.4

Manual Integrations
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7/13/2018 5:22:13 PM



#80

Naphthalene, 2-methyl-

Concen: 0.04 ppbv

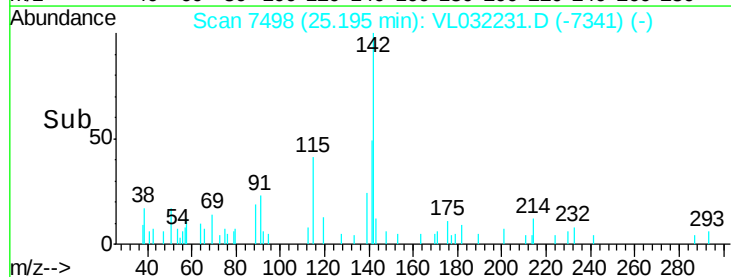
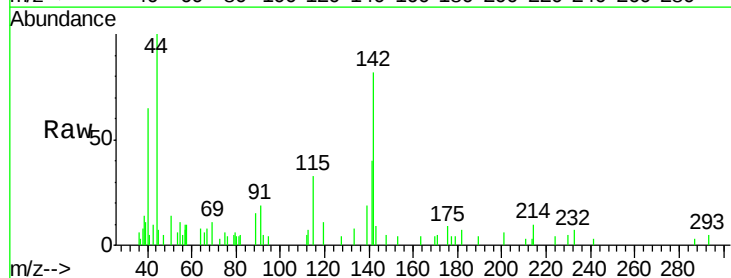
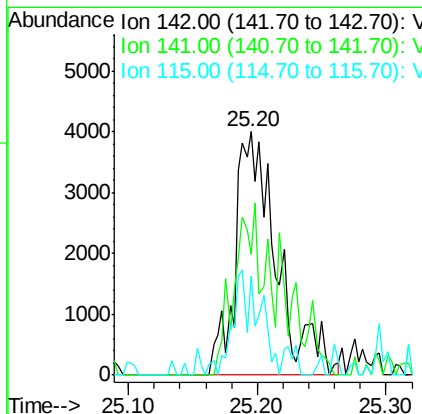
RT: 25.20 min Scan# 7498

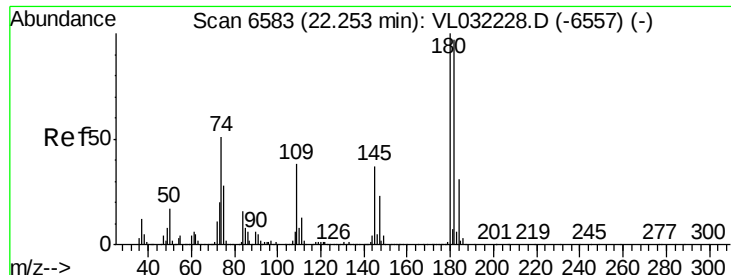
Delta R.T. 0.01 min

Lab File: VL032231.D

Acq: 12 Jul 2018 20:07

Tgt Ion:	142	Resp:	8920
Ion Ratio		Lower	Upper
142	100		
141	67.8	67.0	100.6
115	33.1	32.6	49.0





#81
 1,2,4-Trichlorobenzene
 Concen: 0.27 ppbv m
 RT: 22.25 min Scan# 6582
 Delta R.T. -0.00 min
 Lab File: VL032231.D
 Acq: 12 Jul 2018 20:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.6	76.1	114.1
184	31.4	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:13 PM

