

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031986.D
 Acq On : 4 May 2018 6:42
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:22 PM

Quant Time: May 04 07:12:33 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1230532	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2524366	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2611790m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2049226	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.16	85	1327622	8.17	ppbv	100
3) Chlorodifluoromethane	3.10	51	1103820	9.53	ppbv	97
4) Chloromethane	3.25	50	572107	9.38	ppbv	99
5) Vinyl Chloride	3.38	62	606469	8.81	ppbv	96
6) Bromomethane	3.60	94	413115	9.22	ppbv	99
7) Chloroethane	3.69	64	245232	9.37	ppbv	93
8) Dichlorotetrafluoroethane	3.31	85	1533852	9.48	ppbv	96
9) Propene	3.12	41	408999	9.64	ppbv	100
10) Heptane	8.39	43	1399516	9.59	ppbv	98
11) Trichlorofluoromethane	4.11	101	1699558	8.66	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1326798	9.60	ppbv	98
13) Ethanol	3.74	45	133745	8.44	ppbv #	100
14) Bromoethene	3.88	108	458196	8.97	ppbv	99
15) Acetone	4.00	43	1169988	6.73	ppbv	98
16) 1,3-Butadiene	3.45	39	515555	9.22	ppbv	90
17) tert-Butyl alcohol	4.46	59	714130	9.93	ppbv	100
18) 1,1-Dichloroethene	4.46	96	615406	10.15	ppbv	99
19) Isopropyl Alcohol	4.12	45	790937	8.41	ppbv	100
20) Methylene Chloride	4.51	84	579617	9.87	ppbv	98
21) Allyl Chloride	4.59	41	992479	10.01	ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	654360	9.73	ppbv	98
23) Vinyl Acetate	5.27	43	1979307	9.96	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1796213	9.68	ppbv	100
25) Ethyl Acetate	5.89	43	2730769	9.14	ppbv	99
26) Hexane	5.90	57	1292328	9.21	ppbv	99
27) Carbon Disulfide	4.73	76	1668570	10.61	ppbv	100
28) Methyl tert-Butyl Ether	5.23	73	1732372	10.03	ppbv	100
29) Chloroform	5.97	83	2065188	9.30	ppbv	99
30) Cyclohexane	7.39	84	896797m	9.58	ppbv	
31) cis-1,2-Dichloroethene	5.76	61	1212341	9.44	ppbv	96
32) 1,1,1-Trichloroethane	6.75	97	2125867	10.38	ppbv	99
34) 2-Butanone	5.45	43	1817363	8.73	ppbv	99
35) Carbon Tetrachloride	7.27	117	1894173	9.47	ppbv	97
36) Benzene	7.14	78	2110158	8.87	ppbv	99
37) 1,2-Dichloroethane	6.54	62	1775059	10.38	ppbv	99
38) Trichloroethene	8.10	130	890242	9.86	ppbv	97
39) 1,2-Dichloropropane	7.87	63	782925	9.46	ppbv	98
40) 1,4-Dioxane	8.09	88	366546	9.83	ppbv	95
41) Tetrahydrofuran	6.27	42	917513	10.11	ppbv	99
42) Bromodichloromethane	8.06	83	1849210	9.71	ppbv	99
43) Methyl Methacrylate	8.27	69	810492	10.11	ppbv	98

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Manual Integrations
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Quant Time: May 04 07:12:33 2018
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	3650286	9.52	ppbv	100
45) t-1,3-Dichloropropene	9.56	75	1157737	10.90	ppbv	99
46) cis-1,3-Dichloropropene	8.98	75	1403182	10.70	ppbv	98
47) 1,1,2-Trichloroethane	9.76	97	908693	9.28	ppbv	98
48) Dibromochloromethane	10.60	129	1598835	10.18	ppbv	100
49) Bromoform	13.35	173	1232346	10.12	ppbv	100
50) 4-Methyl-2-Pentanone	9.01	43	1903787	9.68	ppbv	99
51) 2-Hexanone	10.41	43	1850436	10.33	ppbv #	100
52) Tetrachloroethene	11.52	164	829221	9.42	ppbv	97
53) Toluene	10.09	91	2557877	9.98	ppbv	99
54) 1,2-Dibromoethane	10.91	107	1415935	9.70	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.43	131	1076870	9.05	ppbv	97
57) Chlorobenzene	12.45	112	2041105	9.06	ppbv	99
58) Ethyl Benzene	13.02	91	3610544	9.65	ppbv	99
59) m/p-Xylene	13.30	91	6081631m	19.17	ppbv	
60) o-Xylene	14.00	91	3096884	9.73	ppbv	100
61) Styrene	13.84	104	707111	10.95	ppbv	98
62) Isopropylbenzene	14.97	105	3814140	9.37	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	1983546	8.77	ppbv	99
64) n-propylbenzene	15.87	120	970502	9.51	ppbv	99
65) tert-Butylbenzene	17.06	119	3315887	9.13	ppbv	99
66) Benzyl Chloride	17.31	91	322335	9.77	ppbv	99
67) sec-Butylbenzene	17.61	105	4683729	9.29	ppbv	100
69) p-Isopropyltoluene	17.96	119	3881730	9.58	ppbv	99
70) n-Butylbenzene	18.86	91	4081637	9.74	ppbv	99
71) 2-Chlorotoluene	15.77	91	2867578	9.62	ppbv	99
72) 4-Ethyltoluene	16.15	105	3197512	9.89	ppbv	99
73) 1,3,5-Trimethylbenzene	16.31	105	2880793	9.64	ppbv	96
74) 1,2,4-Trimethylbenzene	17.08	105	3058343	9.25	ppbv	96
75) 1,3-Dichlorobenzene	17.32	146	1924677	9.43	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	1965172	9.73	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1911640	9.31	ppbv	99
78) Hexachloro-1,3-Butadiene	23.68	225	1495063	16.02	ppbv	100
79) Naphthalene	22.59	128	3417687	14.85	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	1554504	28.31	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1683542	13.19	ppbv	99

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

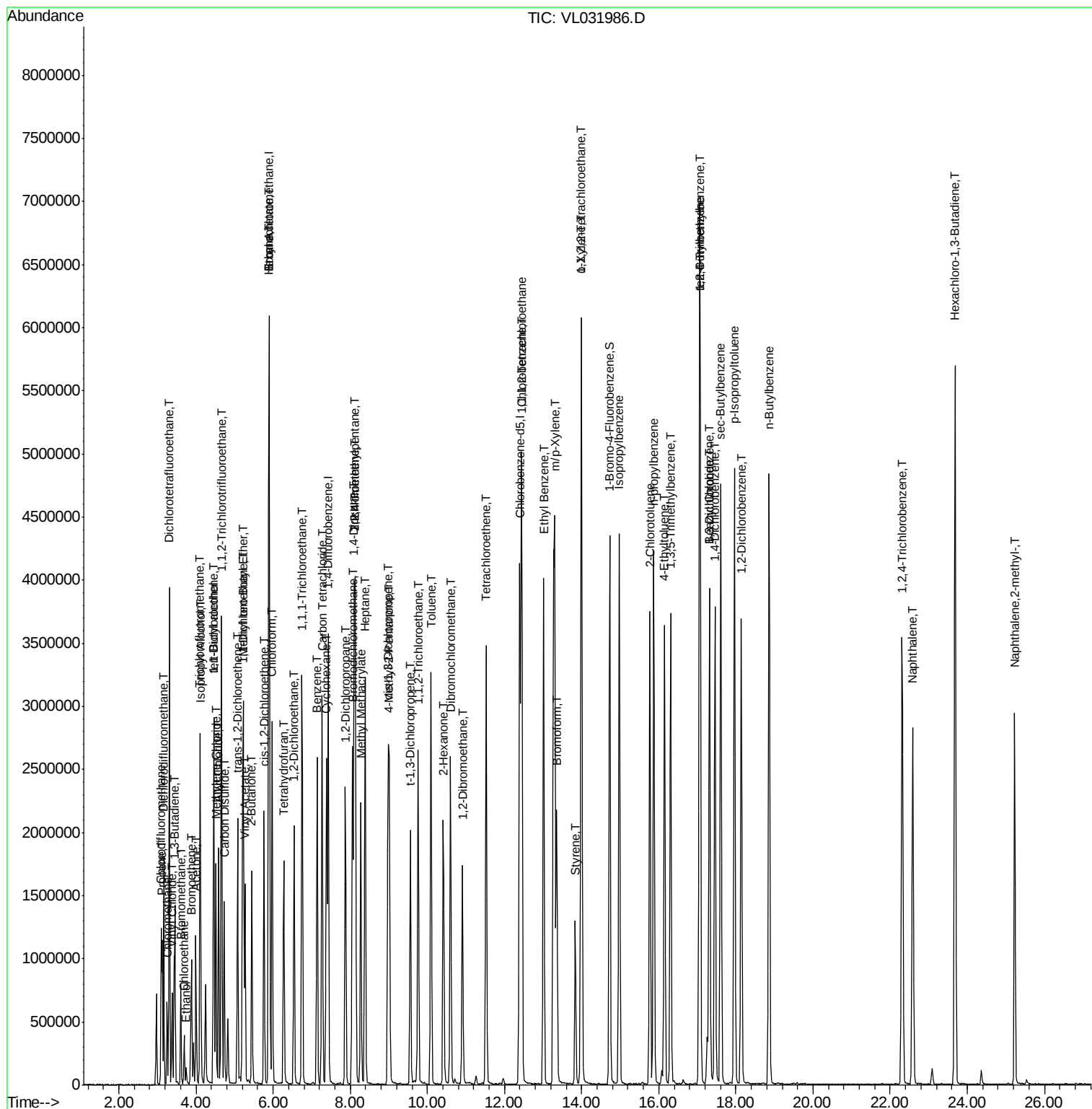
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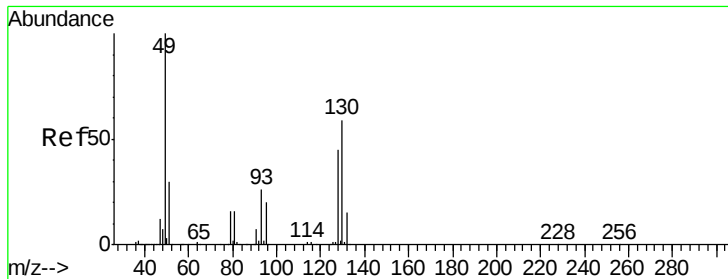
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Manual Integrations APPROVED

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QLast Update : Thu May 03 15:52:13 2018
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#1

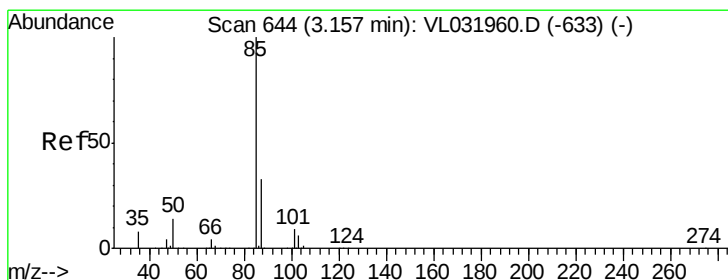
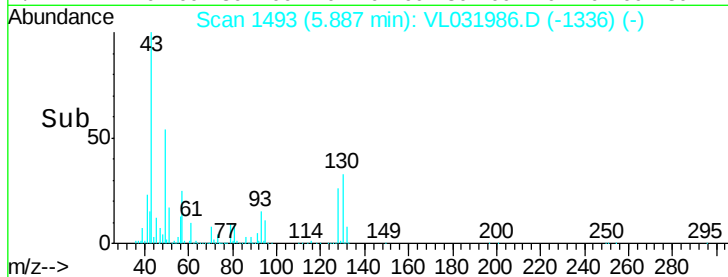
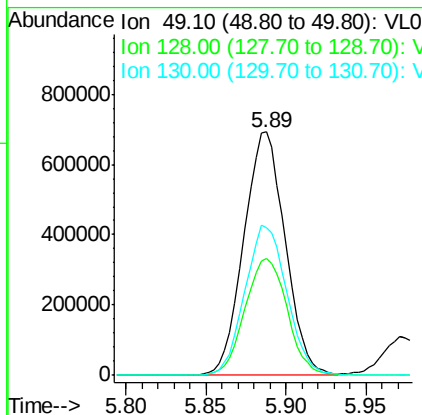
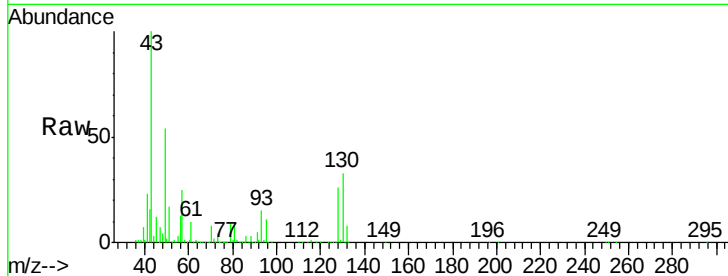
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.89 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	49.2	24.1	72.3
130	62.8	30.7	92.1

Manual Integrations
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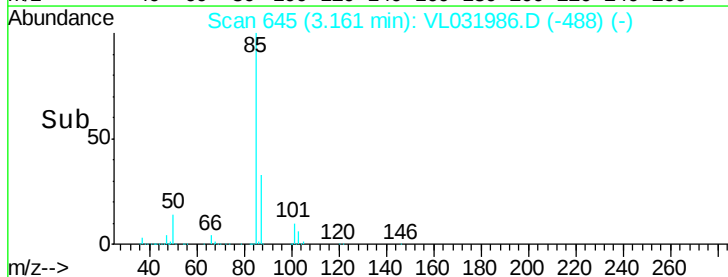
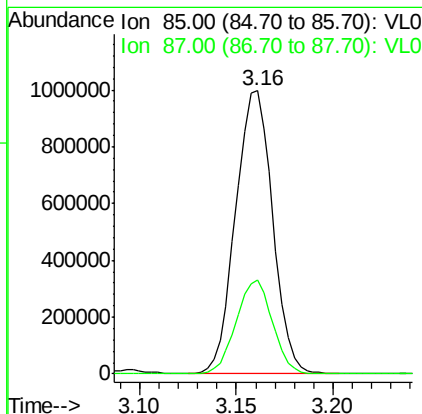
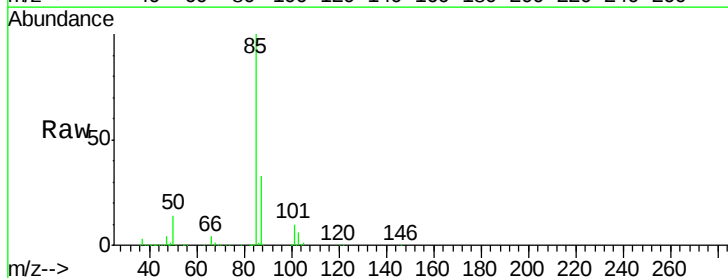
MMDadoda
 5/4/2018 5:01:22 PM

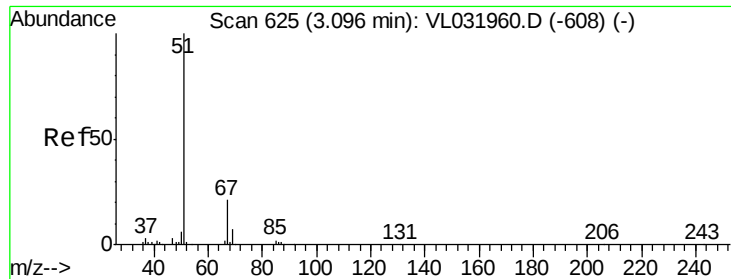


#2

Dichlorodifluoromethane
 Concen: 8.17 ppbv
 RT: 3.16 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.8	40.2





#3

Chlorodifluoromethane

Concen: 9.53 ppbv

RT: 3.10 min Scan# 625

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Tot Ion: 51 Resp: 1103820

Ion Ratio Lower Upper

51 100

67 21.4 15.9 23.9

Instrument :

MSVOA_L

ClientSampleId :

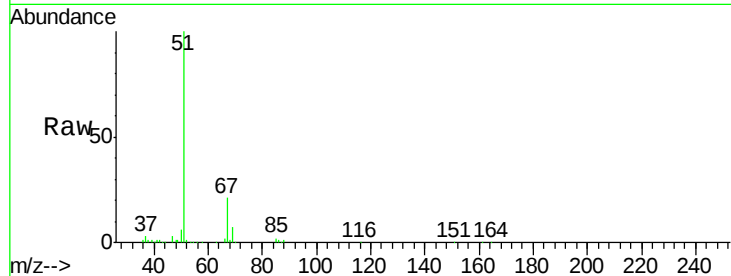
VSTDCCC010EC

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.10

800000

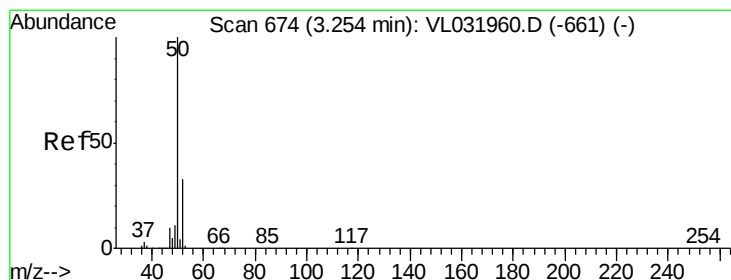
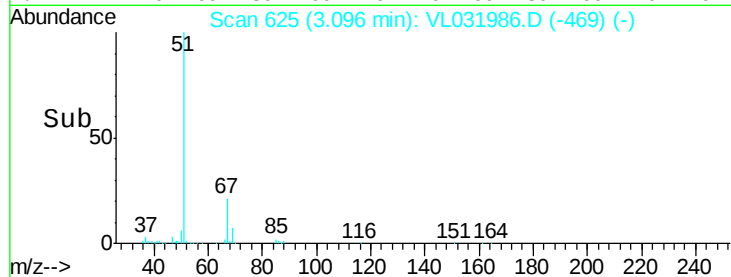
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 9.38 ppbv

RT: 3.25 min Scan# 674

Delta R.T. 0.00 min

Lab File: VL031986.D

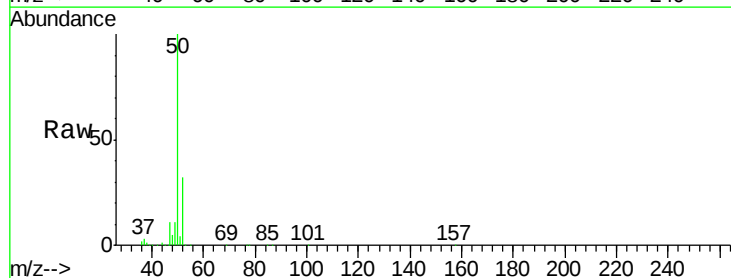
Acq: 4 May 2018 6:42

Tgt Ion: 50 Resp: 572107

Ion Ratio Lower Upper

50 100

52 32.4 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.25

400000

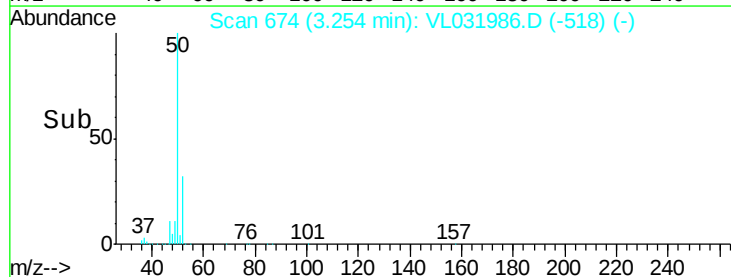
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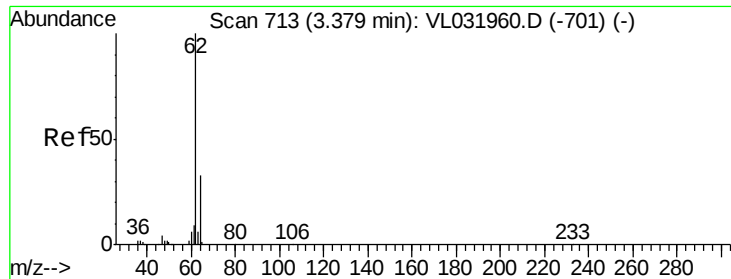
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 8.81 ppbv

RT: 3.38 min Scan# 713

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 606469

Ion Ratio Lower Upper

62 100

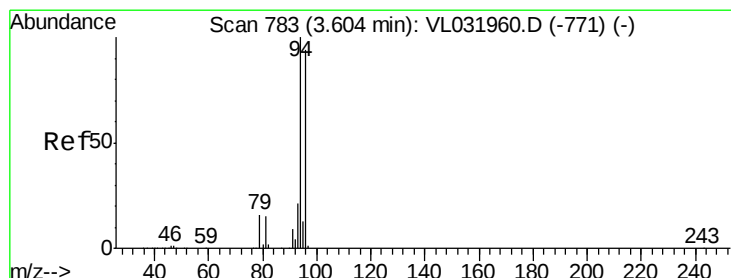
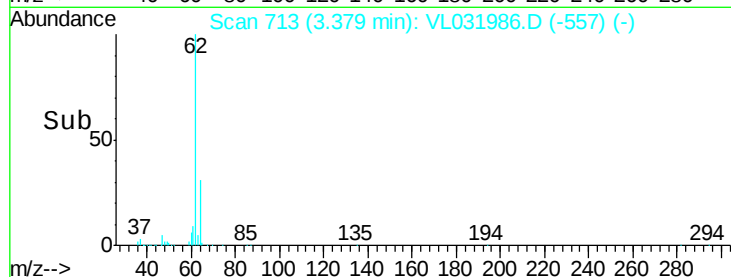
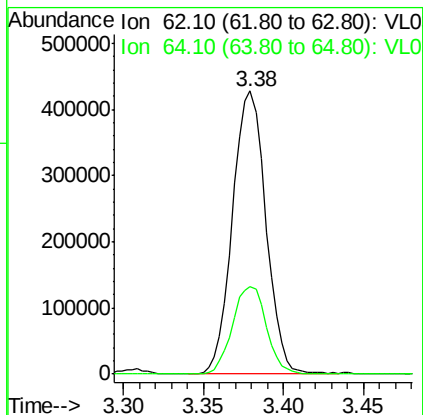
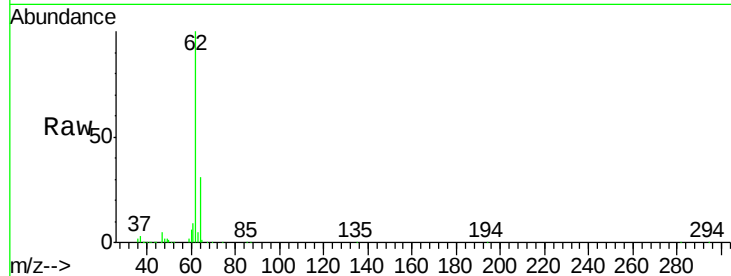
64 30.9 26.6 39.8

Manual Integrations

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#6

Bromomethane

Concen: 9.22 ppbv

RT: 3.60 min Scan# 783

Delta R.T. 0.00 min

Lab File: VL031986.D

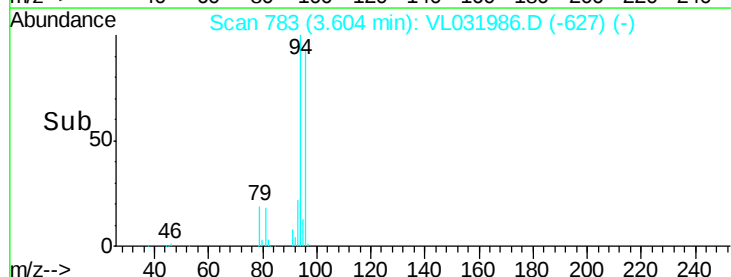
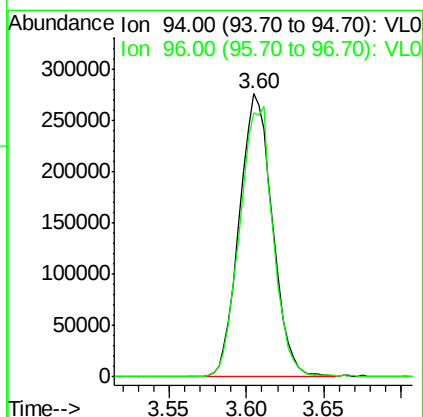
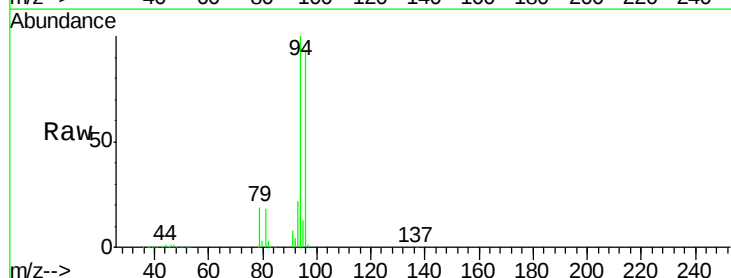
Acq: 4 May 2018 6:42

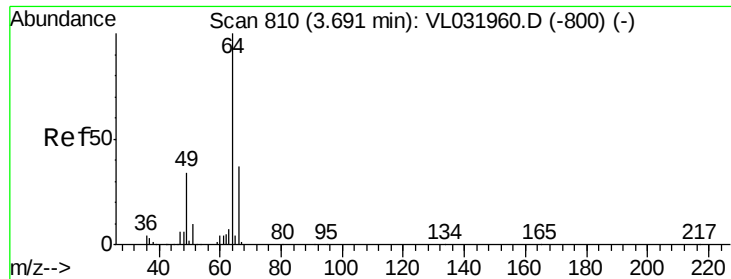
Tgt Ion: 94 Resp: 413115

Ion Ratio Lower Upper

94 100

96 93.4 75.5 113.3





#7

Chloroethane

Concen: 9.37 ppbv

RT: 3.69 min Scan# 811

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 245232

Ion Ratio Lower Upper

64 100

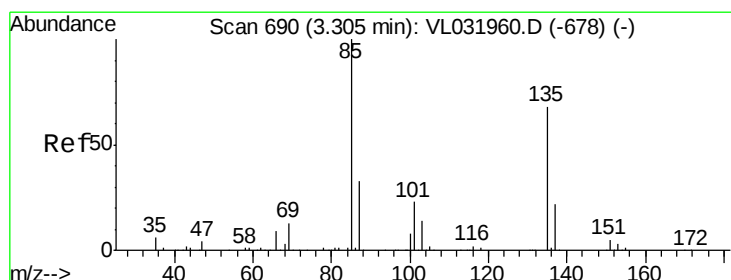
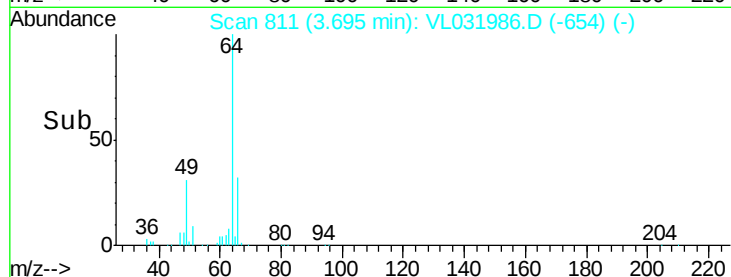
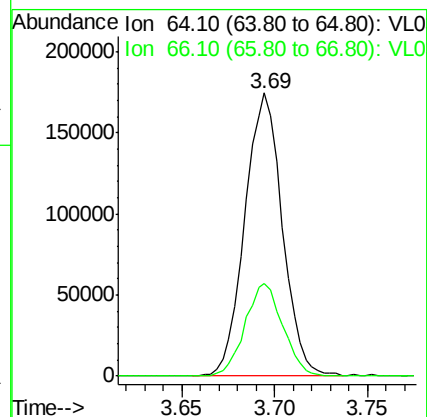
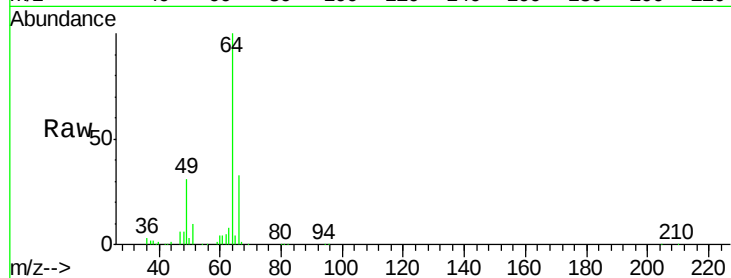
66 32.6 29.6 44.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.48 ppbv

RT: 3.31 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL031986.D

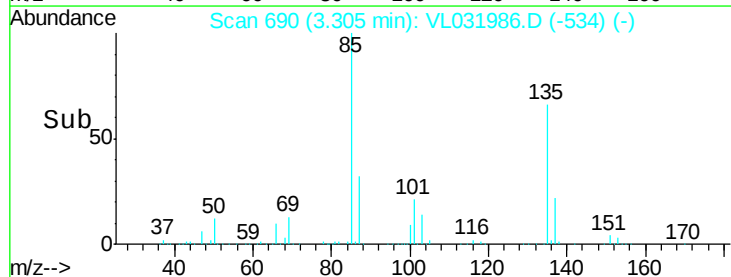
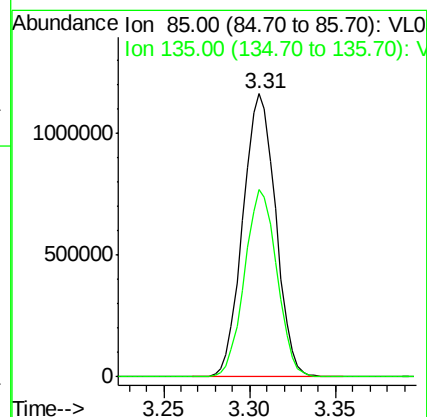
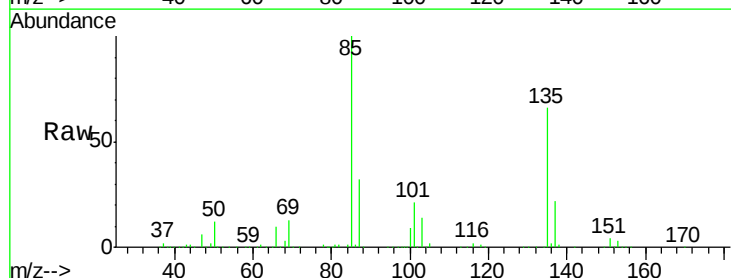
Acq: 4 May 2018 6:42

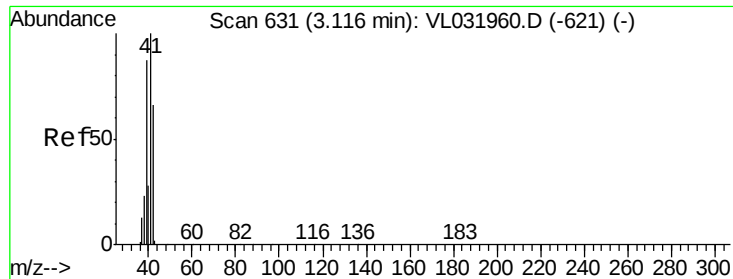
Tgt Ion: 85 Resp: 1533852

Ion Ratio Lower Upper

85 100

135 65.6 54.8 82.2





#9

Propene

Concen: 9.64 ppbv

RT: 3.12 min Scan# 632

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 408999

Ion Ratio Lower Upper

41 100

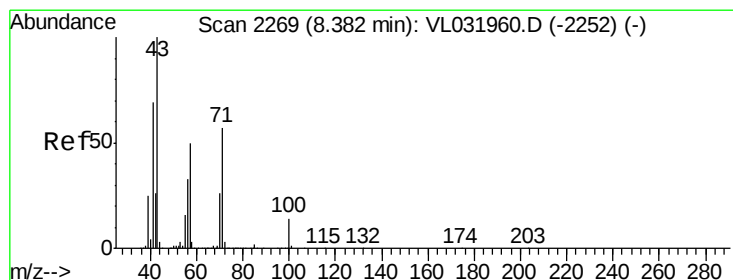
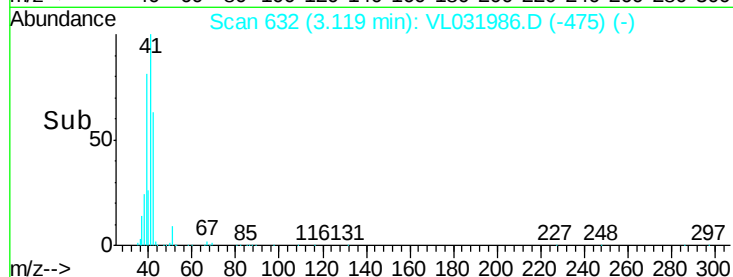
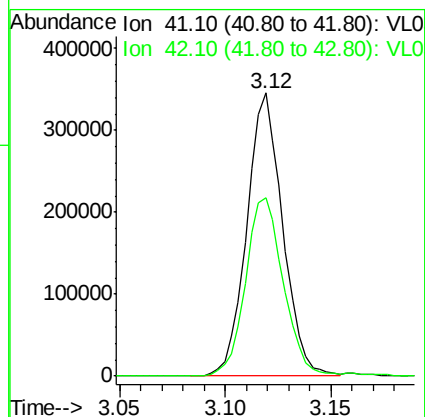
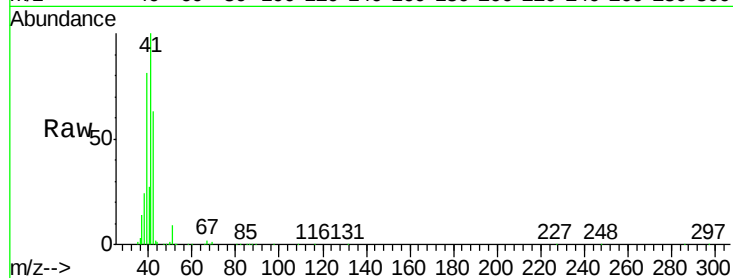
42 67.1 53.9 80.9

Manual Integrations

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5/4/2018 5:01:22 PM



#10

Heptane

Concen: 9.59 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VL031986.D

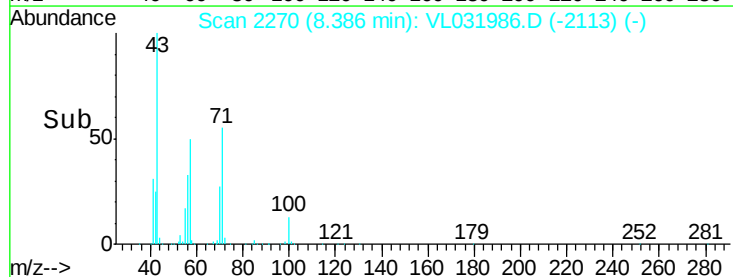
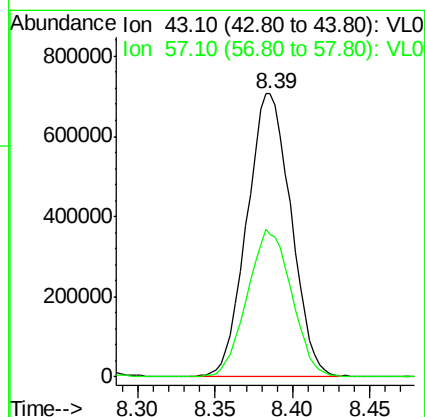
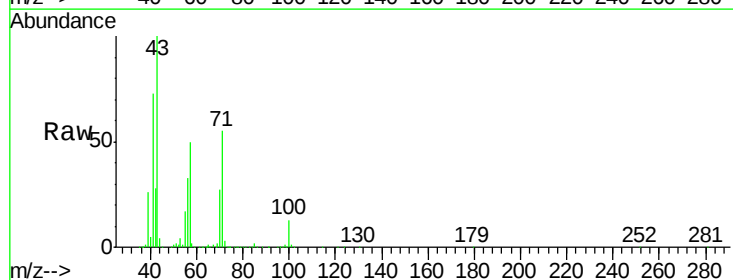
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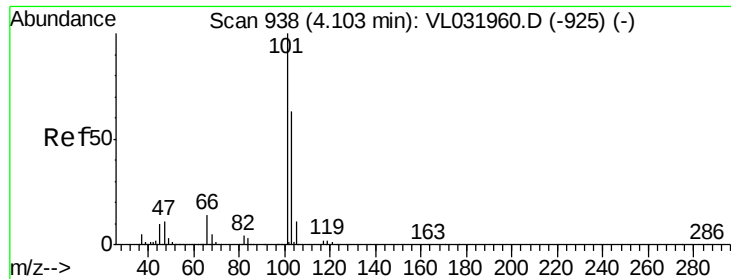
Tgt Ion: 43 Resp: 1399516

Ion Ratio Lower Upper

43 100

57 52.5 40.7 61.1





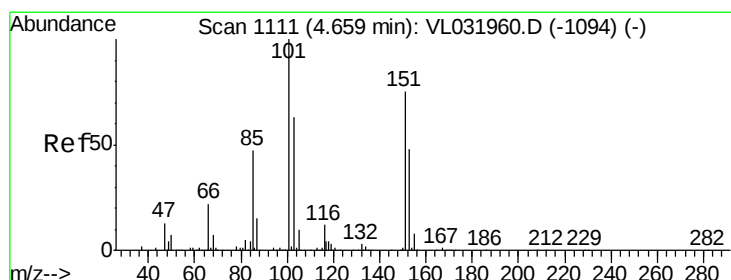
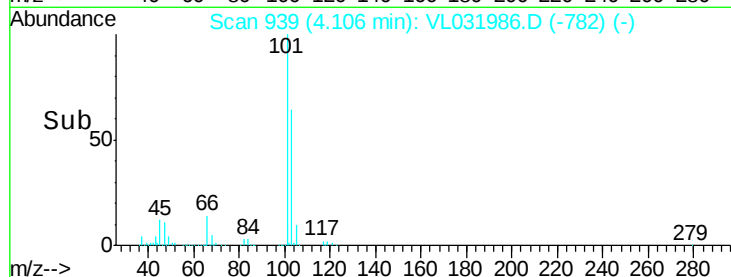
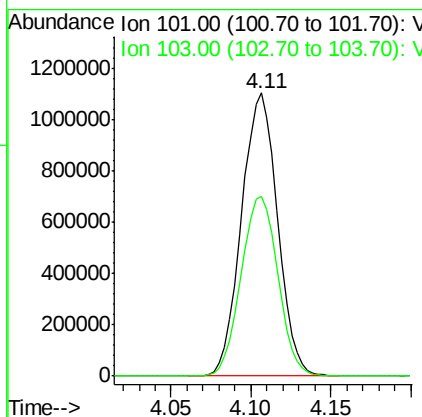
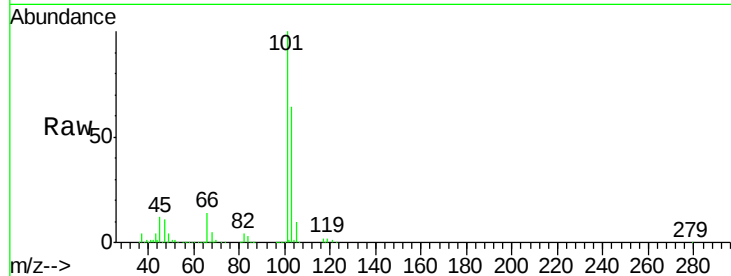
#11
 Trichlorofluoromethane
 Concen: 8.66 ppbv
 RT: 4.11 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1699558
 Ion Ratio Lower Upper
 101 100
 103 63.5 50.7 76.1

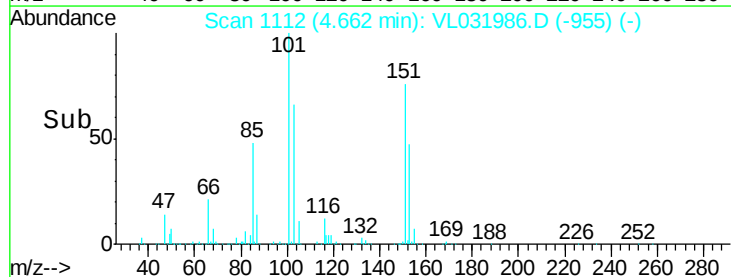
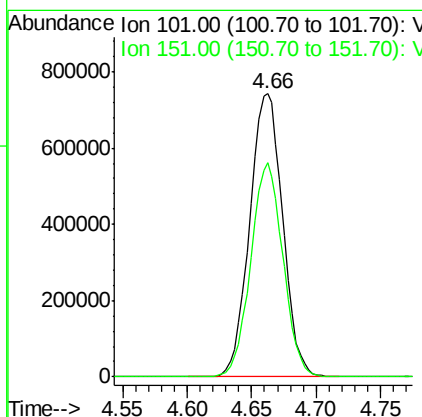
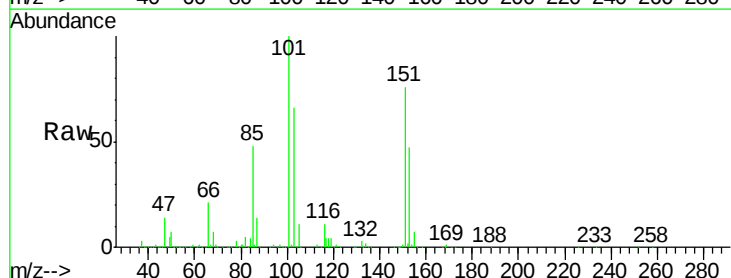
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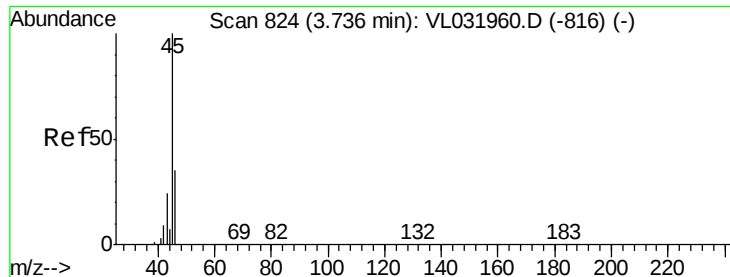
MMDadoda
 5/4/2018 5:01:22 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.60 ppbv
 RT: 4.66 min Scan# 1112
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion:101 Resp: 1326798
 Ion Ratio Lower Upper
 101 100
 151 73.8 60.2 90.2





#13

Ethanol

Concen: 8.44 ppbv

RT: 3.74 min Scan# 825

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 133745

Ion Ratio Lower Upper

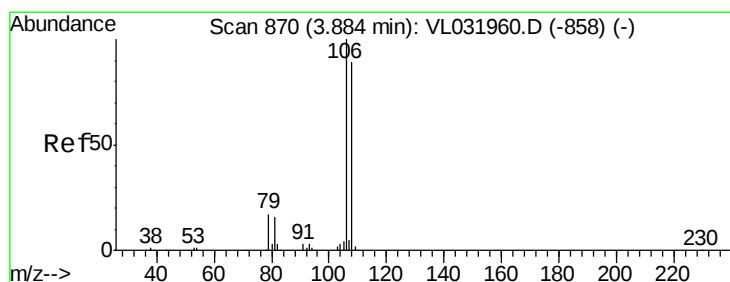
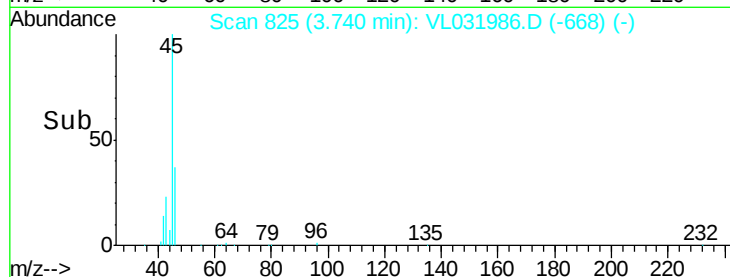
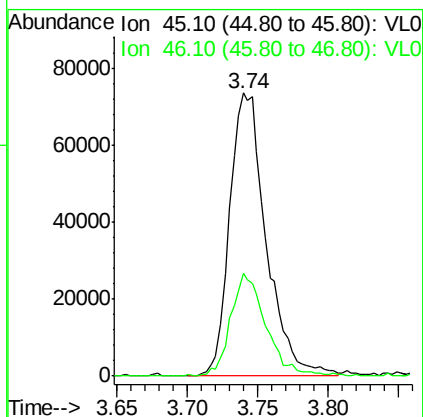
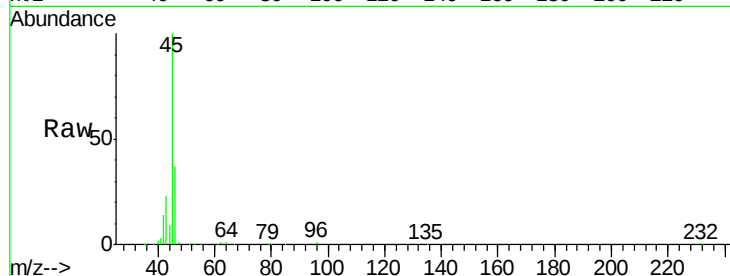
45 100

46 35.3 0.0 0.0#

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#14

Bromoethene

Concen: 8.97 ppbv

RT: 3.88 min Scan# 870

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

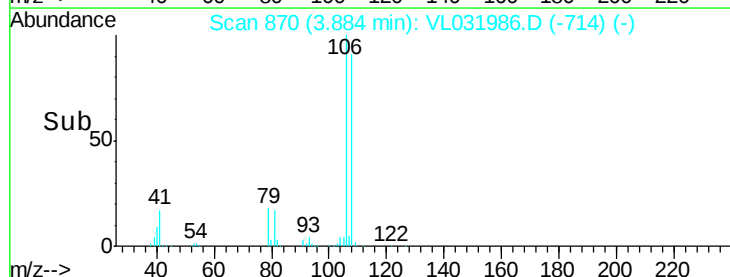
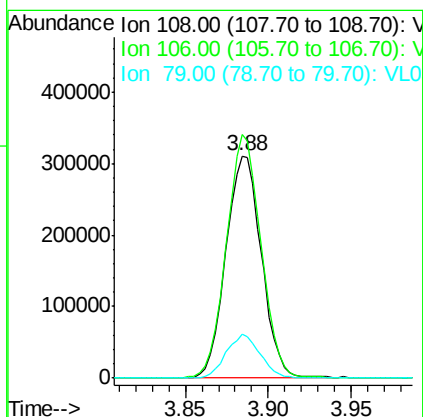
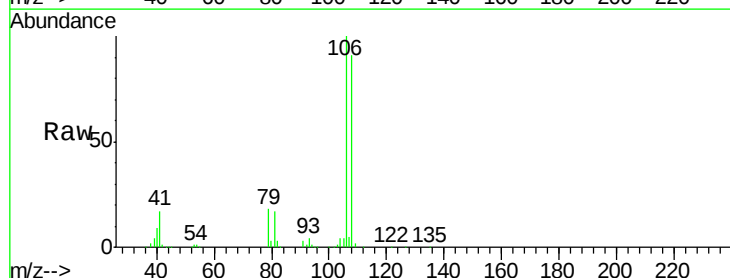
Tgt Ion: 108 Resp: 458196

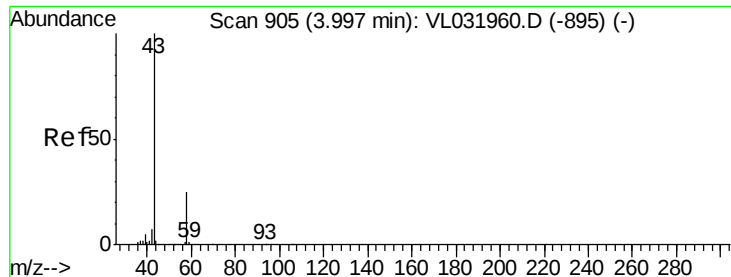
Ion Ratio Lower Upper

108 100

106 107.9 86.8 130.2

79 19.3 14.7 22.1





#15

Acetone

Concen: 6.73 ppbv

RT: 4.00 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Tot Ion: 43 Resp: 1169988

Ion Ratio Lower Upper

43 100

58 25.5 21.1 31.7

Instrument :

MSVOA_L

ClientSampleId :

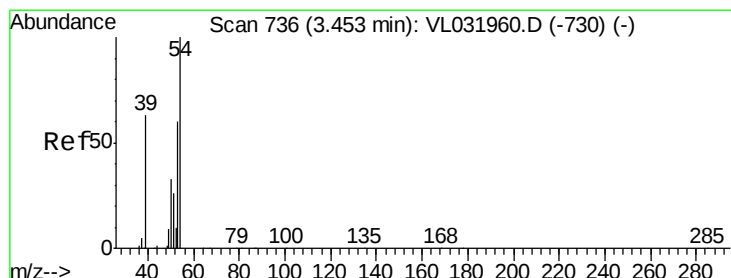
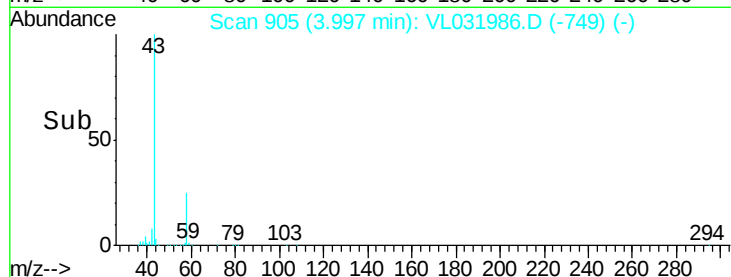
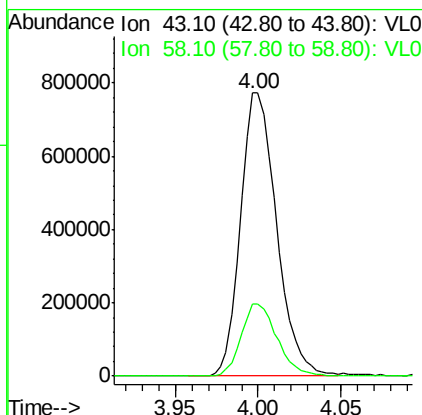
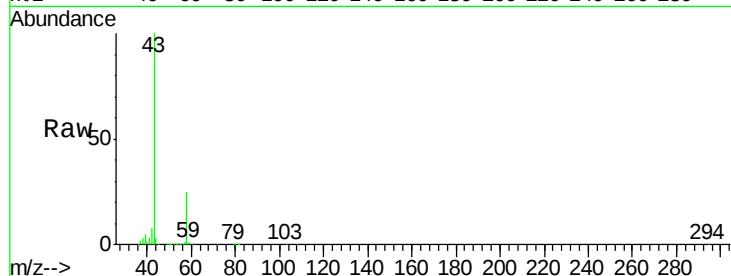
VSTDCCC010EC

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#16

1,3-Butadiene

Concen: 9.22 ppbv

RT: 3.45 min Scan# 735

Delta R.T. -0.00 min

Lab File: VL031986.D

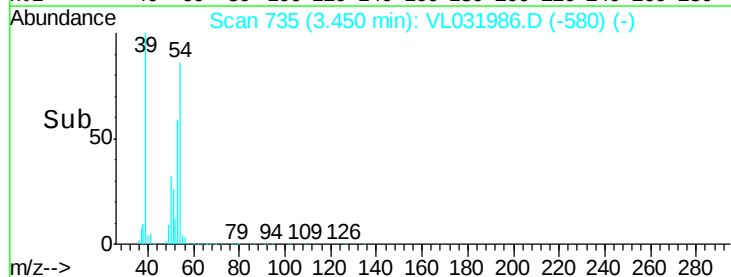
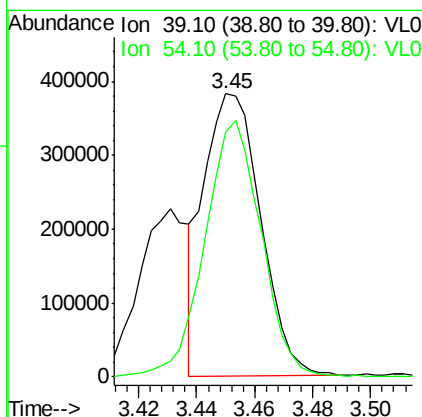
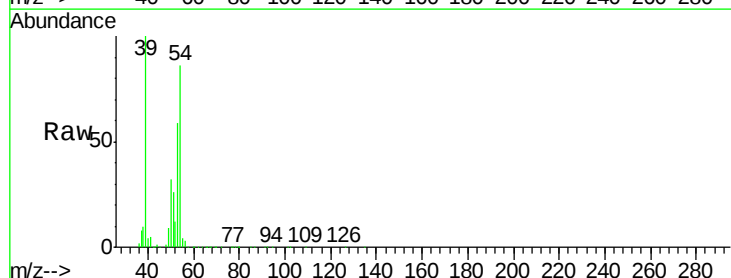
Acq: 4 May 2018 6:42

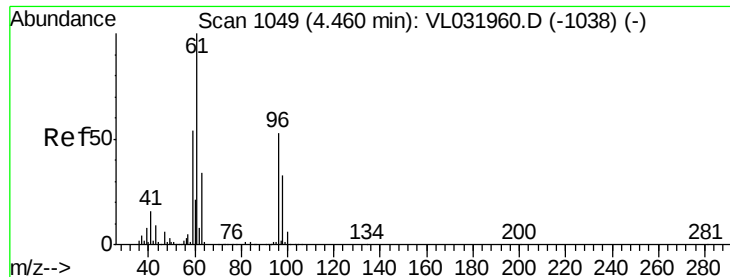
Tgt Ion: 39 Resp: 515555

Ion Ratio Lower Upper

39 100

54 91.5 66.2 99.2





#17

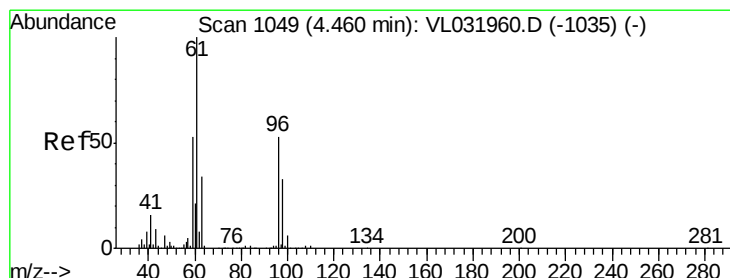
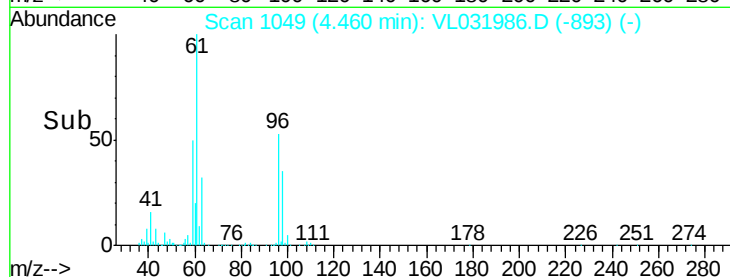
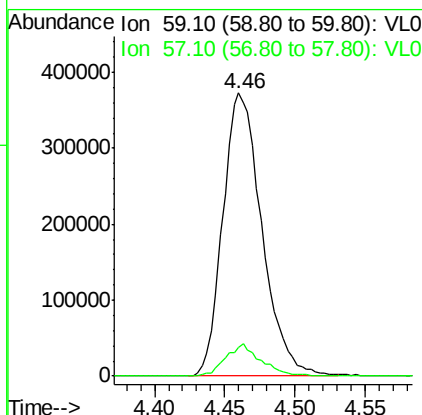
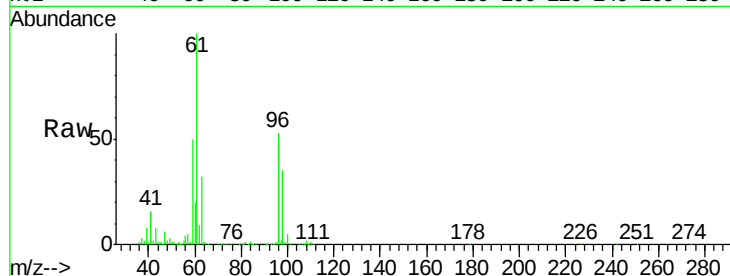
tert-Butyl alcohol
Concen: 9.93 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	59	Resp	714130
Ion Ratio	Lower	Upper	
59	100		
57	10.5	8.3	12.5

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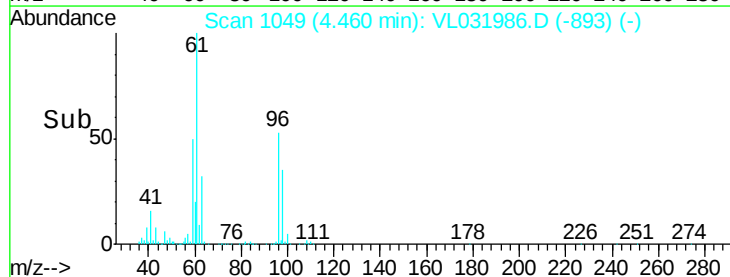
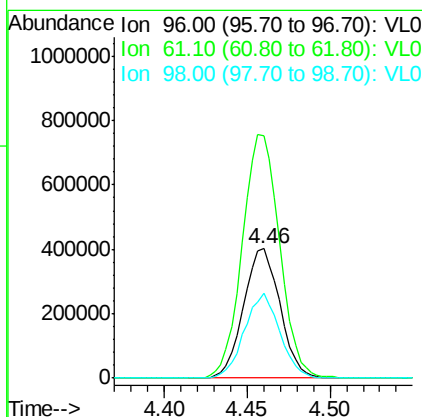
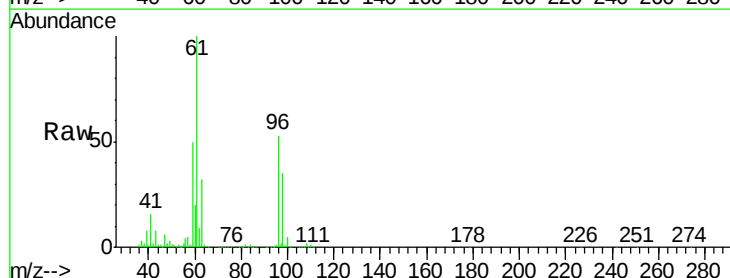
MMDadoda
5/4/2018 5:01:22 PM

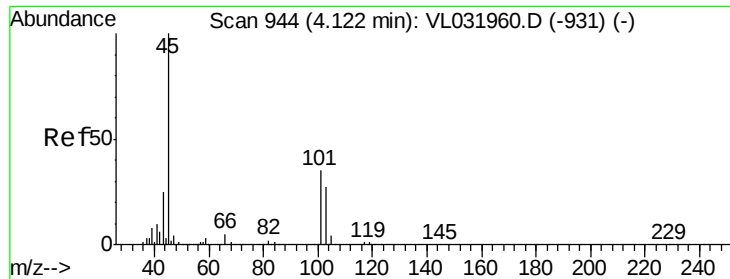


#18

1,1-Dichloroethene
Concen: 10.15 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion	96	Resp	615406
Ion Ratio	Lower	Upper	
96	100		
61	187.3	149.9	224.9
98	65.5	49.7	74.5





#19

Isopropyl Alcohol

Concen: 8.41 ppbv

RT: 4.12 min Scan# 943

Delta R.T. -0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010EC

Tot Ion: 45 Resp: 790937

Ion Ratio Lower Upper

45 100

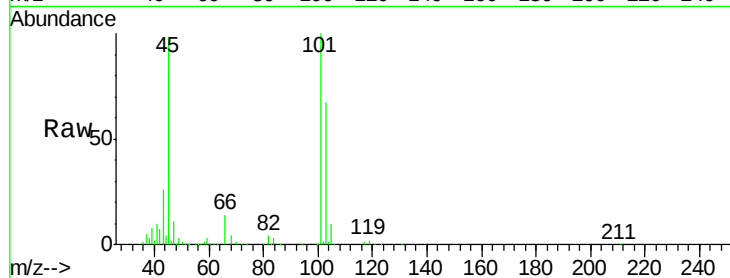
58 1.9 1.4 2.2

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.12

400000

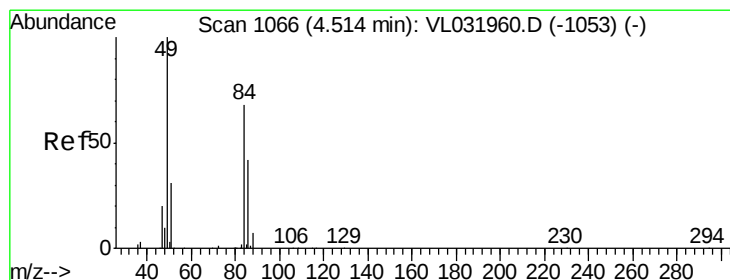
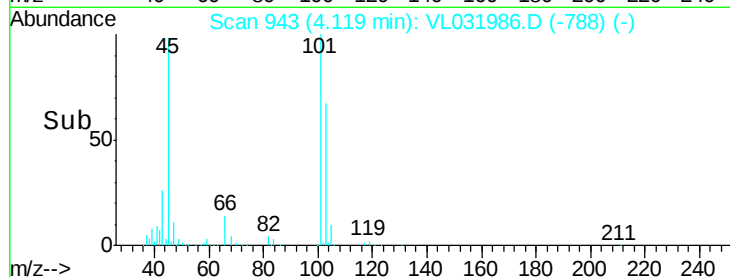
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.87 ppbv

RT: 4.51 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Tgt Ion: 84 Resp: 579617

Ion Ratio Lower Upper

84 100

49 146.6 118.6 178.0

51 43.8 36.6 54.8

86 58.4 49.8 74.8

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

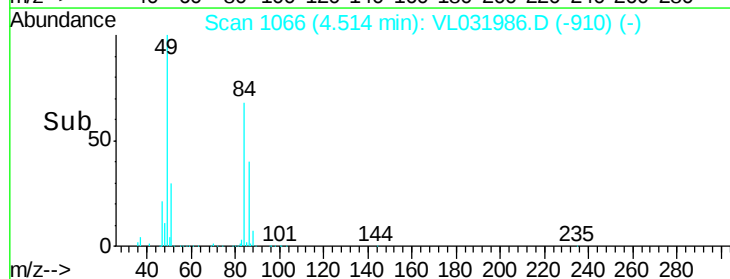
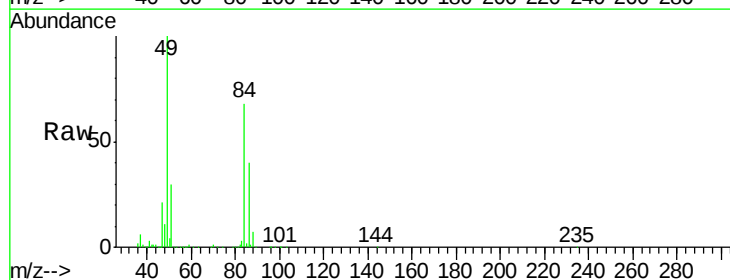
600000

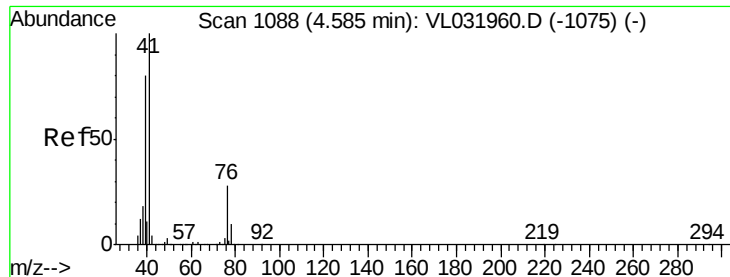
400000

200000

0

Time-->





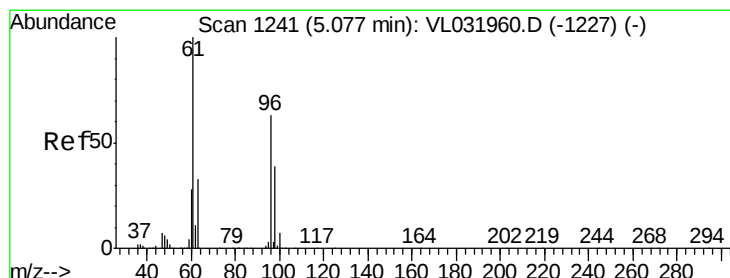
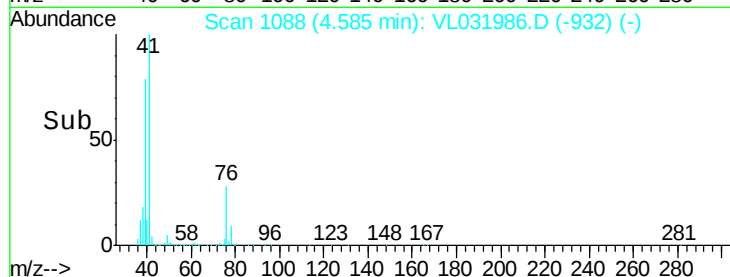
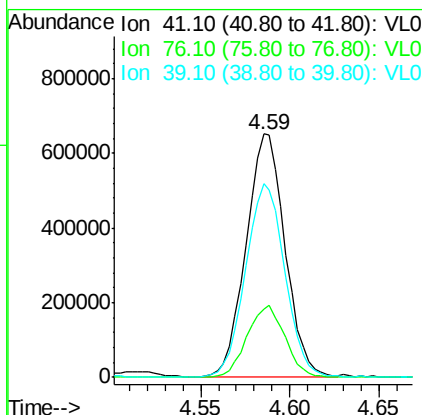
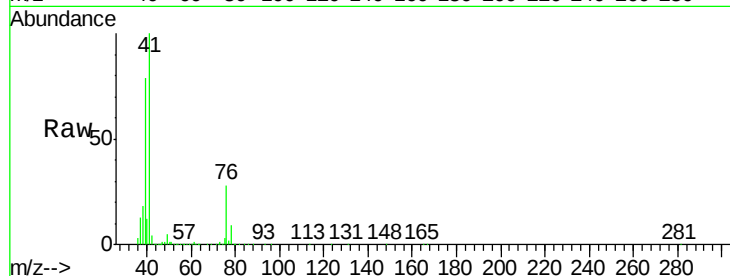
#21
Allvl Chloride
Concen: 10.01 ppbv
RT: 4.59 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.9	23.4	35.0
39	80.7	64.5	96.7

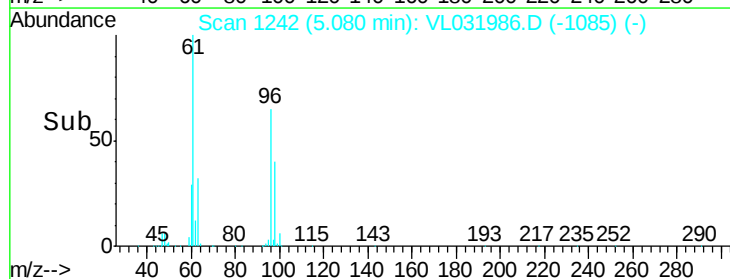
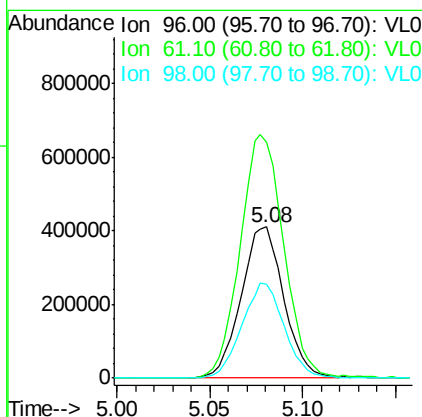
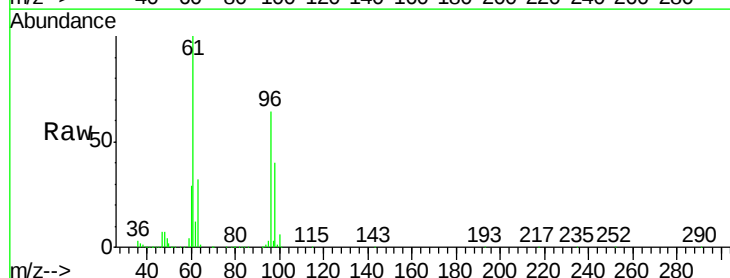
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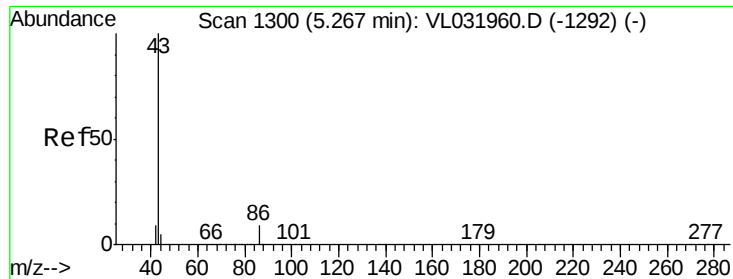
MMDadoda
5/4/2018 5:01:22 PM



#22
trans-1,2-Dichloroethene
Concen: 9.73 ppbv
RT: 5.08 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.2	127.7	191.5
98	61.9	49.3	73.9





#23

Vinyl Acetate

Concen: 9.96 ppbv

RT: 5.27 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1979307

Ion Ratio Lower Upper

43 100

86 8.0 6.1 9.1

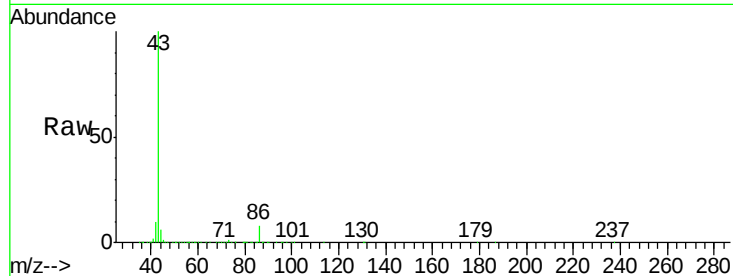
42 10.2 8.0 12.0

44 5.9 3.9 5.9

Manual Integrations
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MMDadoda

5/4/2018 5:01:22 PM

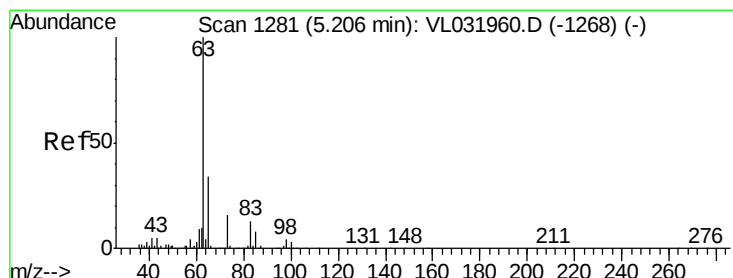
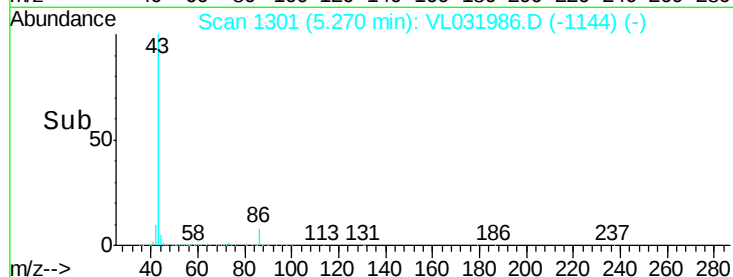
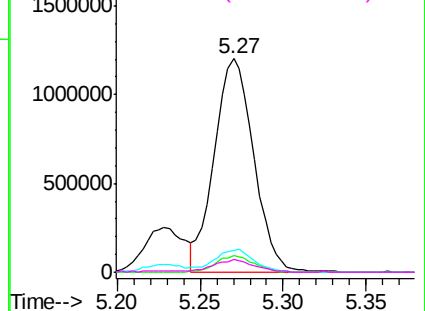


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.68 ppbv

RT: 5.21 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

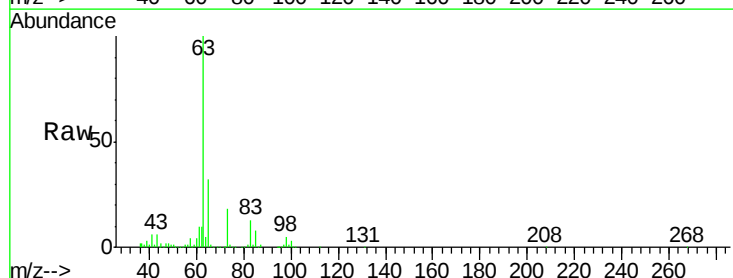
Tgt Ion: 63 Resp: 1796213

Ion Ratio Lower Upper

63 100

98 4.6 2.2 6.6

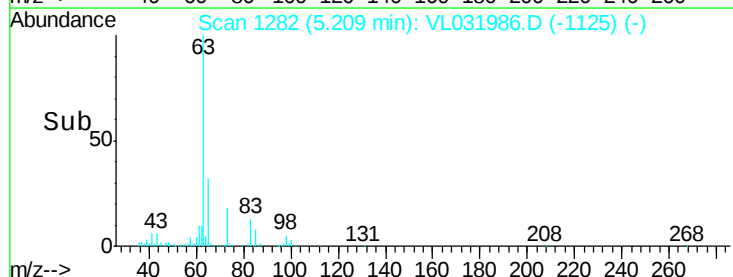
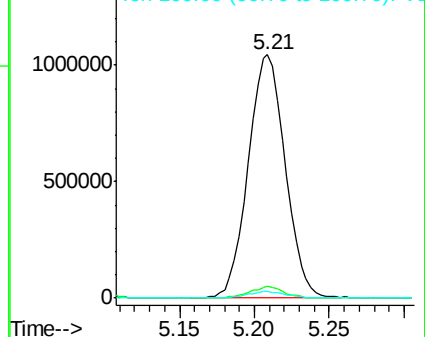
100 3.1 1.5 4.5

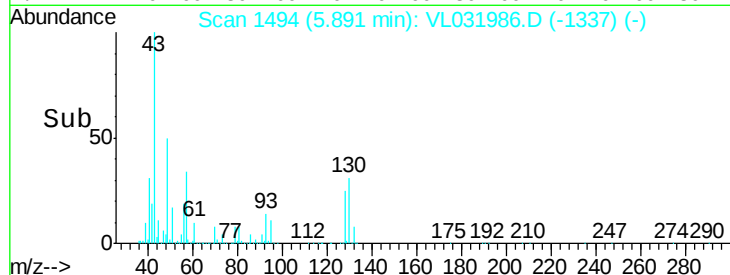
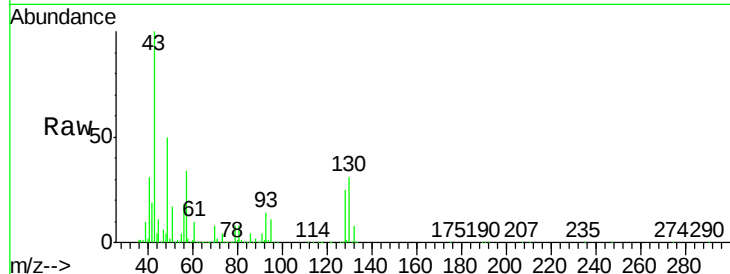
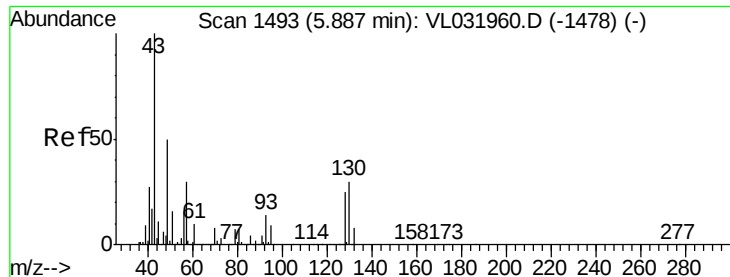


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

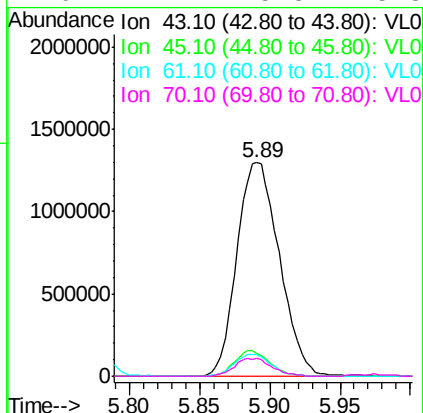
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 9.14 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

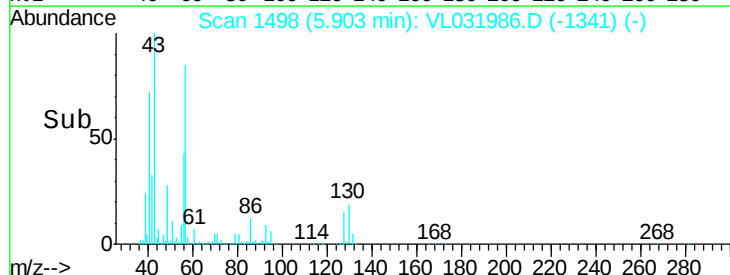
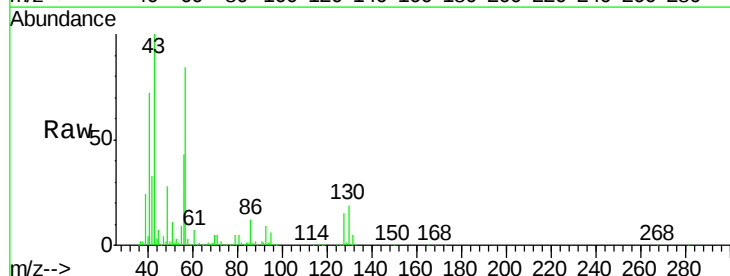
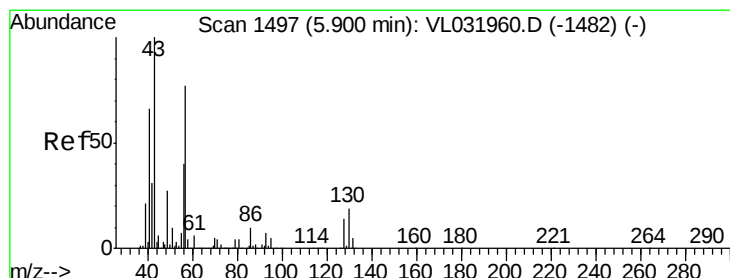
Tot Ion	43	Resp	2730769
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	9.1	7.4	11.2
70	7.4	5.8	8.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

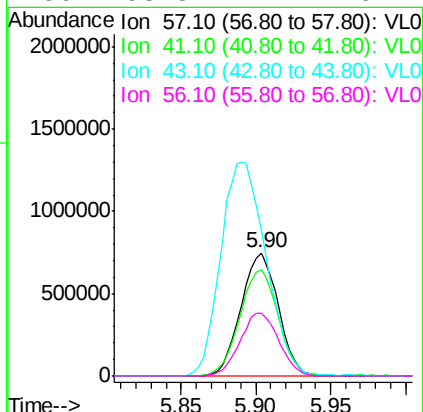
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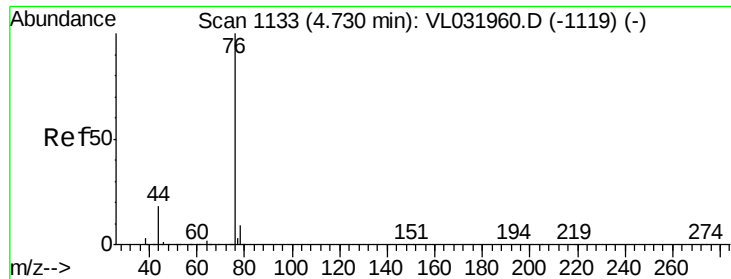
MMDadoda
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#26
Hexane
Concen: 9.21 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion	57	Resp	1292328
Ion	Ratio	Lower	Upper
57	100		
41	89.4	71.8	107.6
43	212.5	171.5	257.3
56	53.3	41.4	62.2





#27

Carbon Disulfide

Concen: 10.61 ppbv

RT: 4.73 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1668570

Ion Ratio Lower Upper

76 100

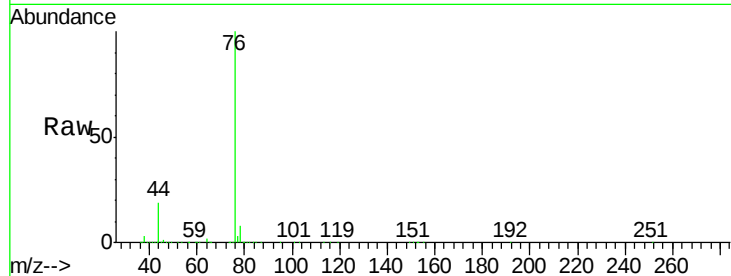
44 19.3 15.4 23.0

78 9.3 7.4 11.0

Manual Integrations
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MMDadoda

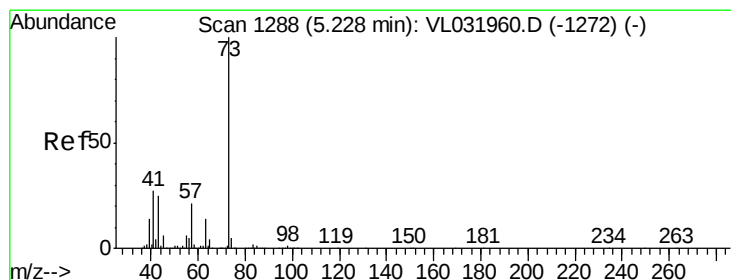
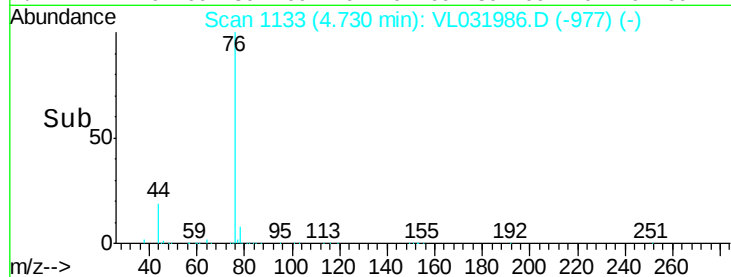
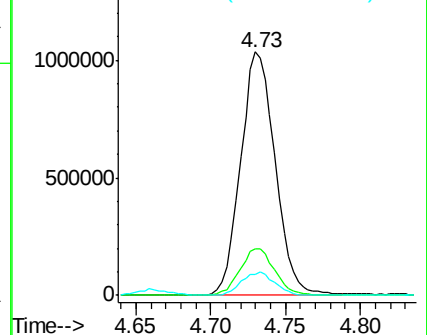
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.03 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VL031986.D

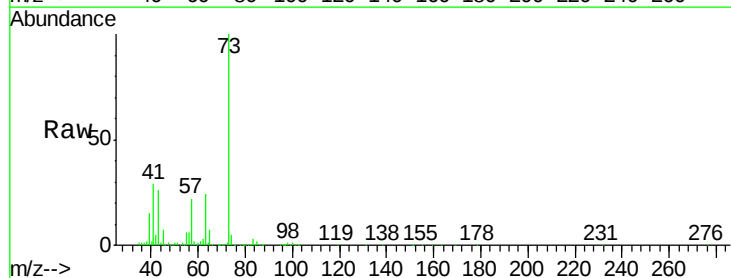
Acq: 4 May 2018 6:42

Tgt Ion: 73 Resp: 1732372

Ion Ratio Lower Upper

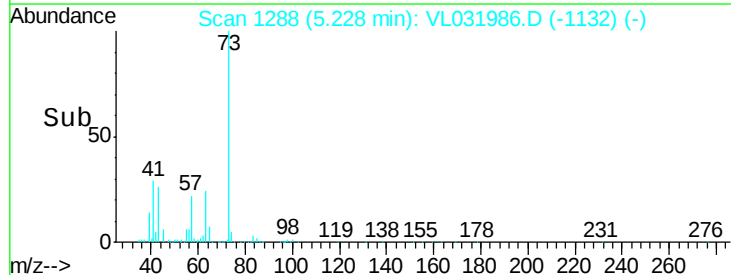
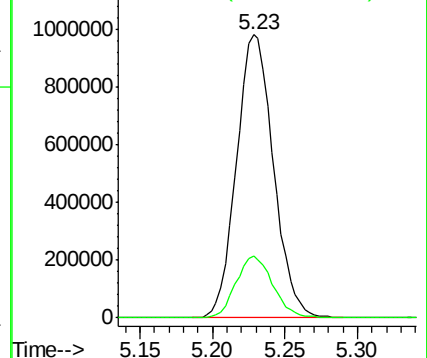
73 100

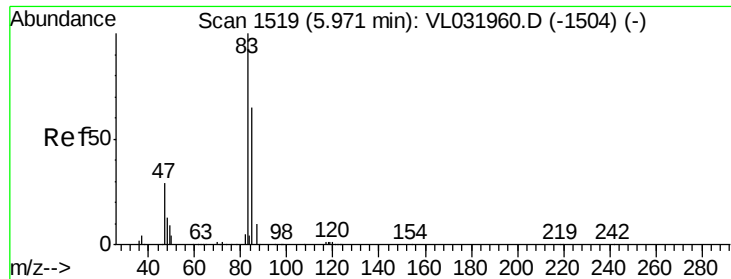
57 21.9 17.6 26.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.30 ppbv

RT: 5.97 min Scan# 1520

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2065188

Ion Ratio Lower Upper

83 100

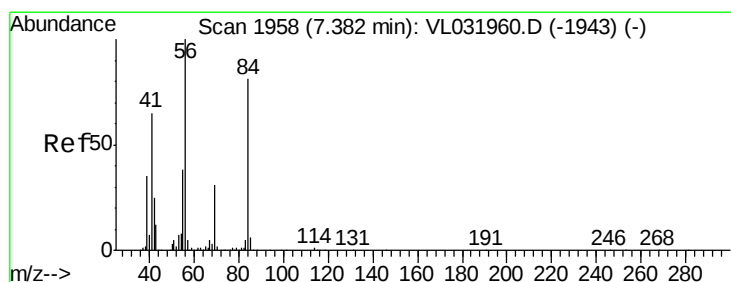
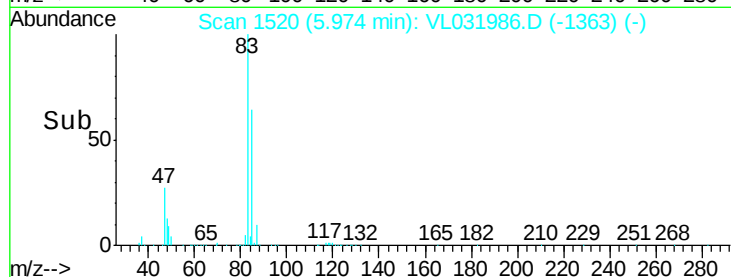
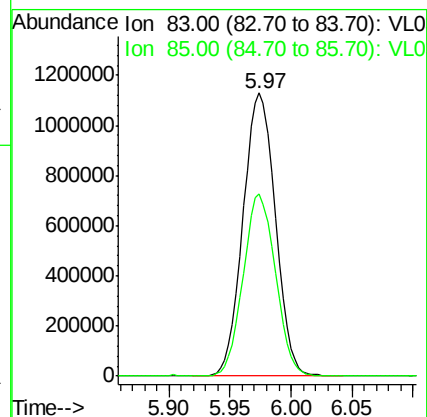
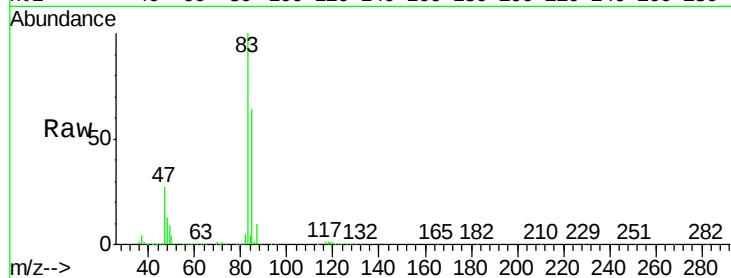
85 64.1 52.2 78.2

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#30

Cyclohexane

Concen: 9.58 ppbv m

RT: 7.39 min Scan# 1959

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

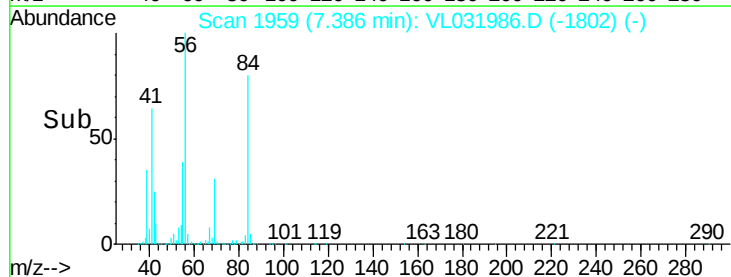
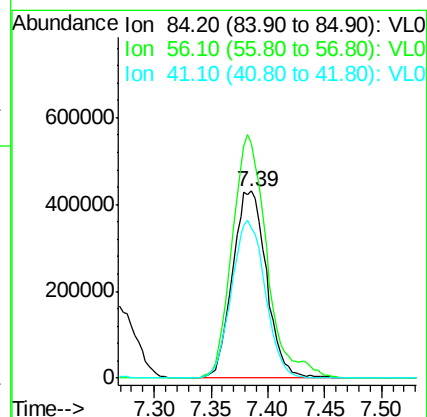
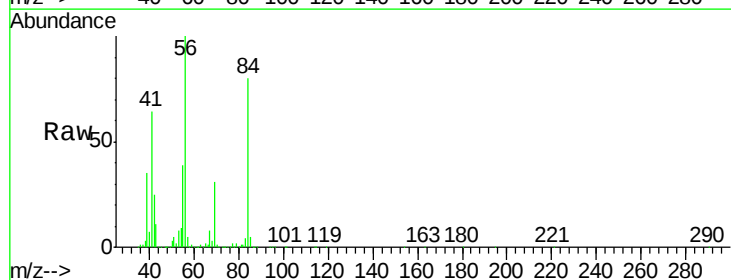
Tgt Ion: 84 Resp: 896797

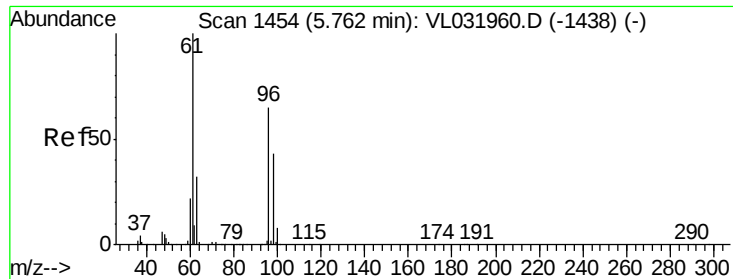
Ion Ratio Lower Upper

84 100

56 132.8 108.0 162.0

41 83.6 66.8 100.2





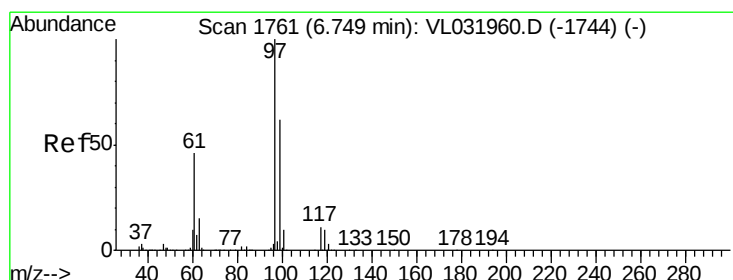
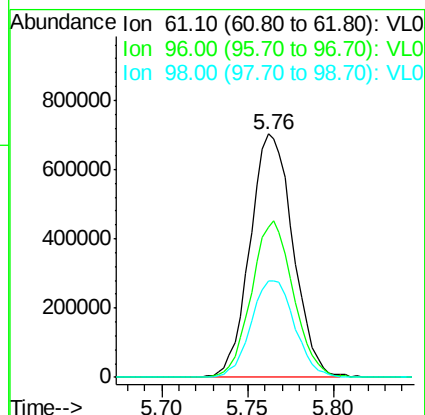
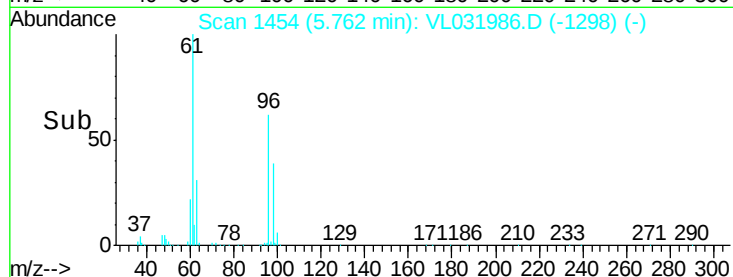
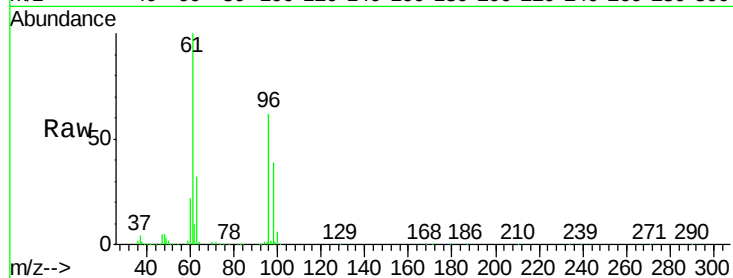
#31
 cis-1,2-Dichloroethene
 Concen: 9.44 ppbv
 RT: 5.76 min Scan# 1454
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.6	51.8	77.6
98	39.4	34.2	51.4

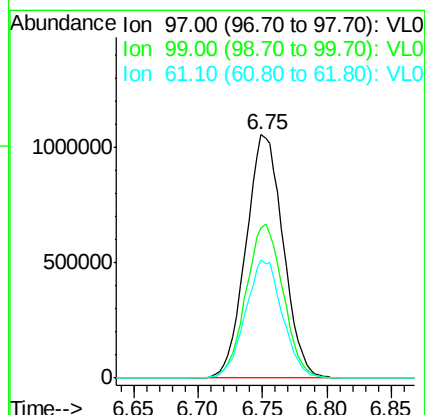
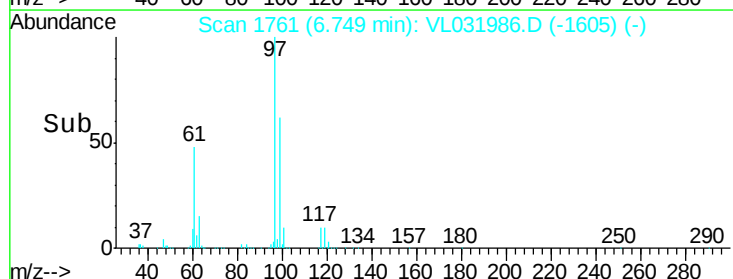
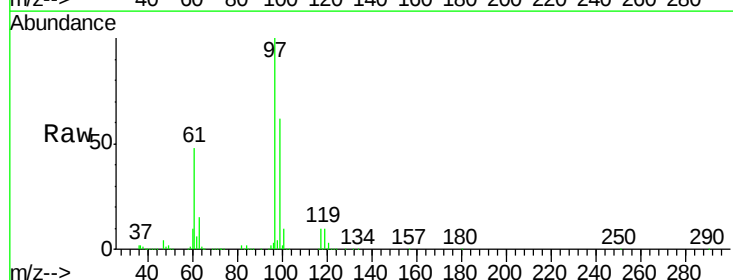
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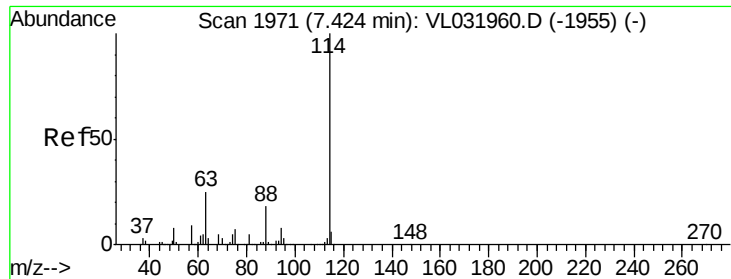
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 10.38 ppbv
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.0	76.6
61	48.4	38.1	57.1





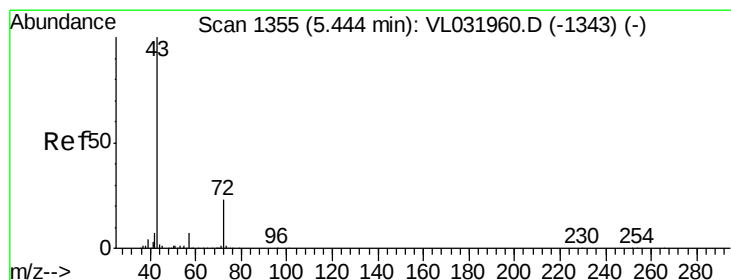
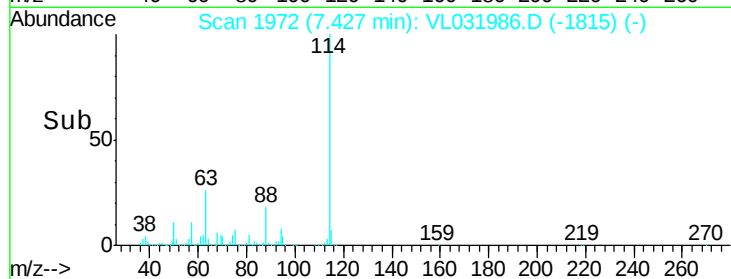
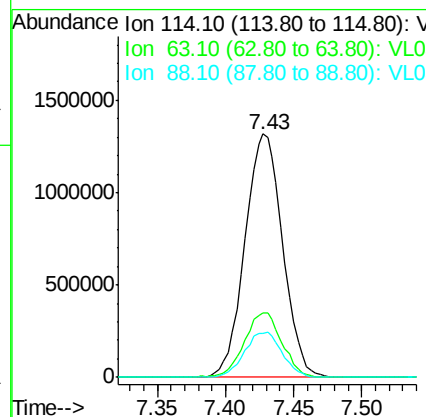
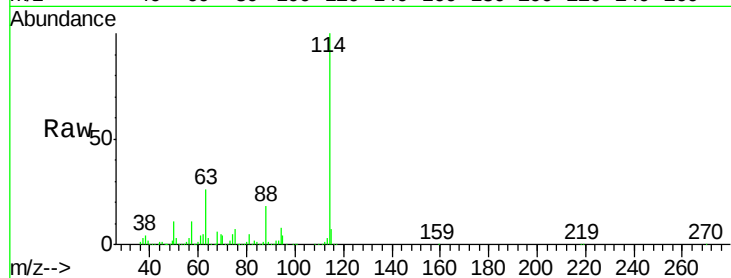
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.43 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.9	20.8	31.2
88	18.7	14.6	21.8

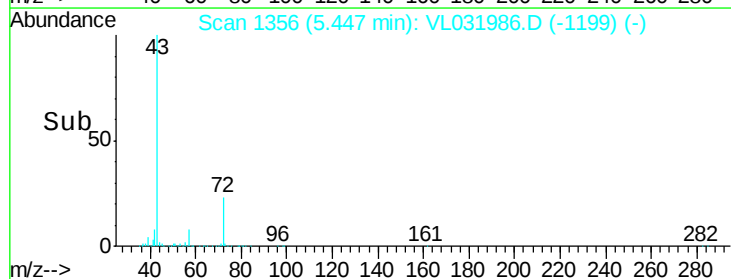
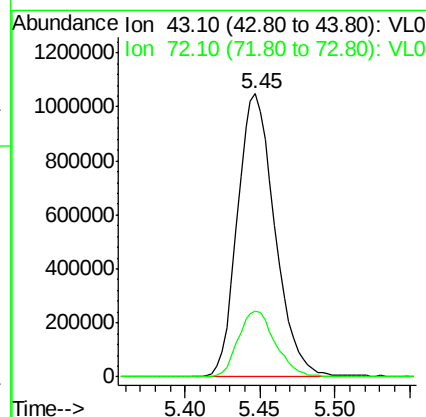
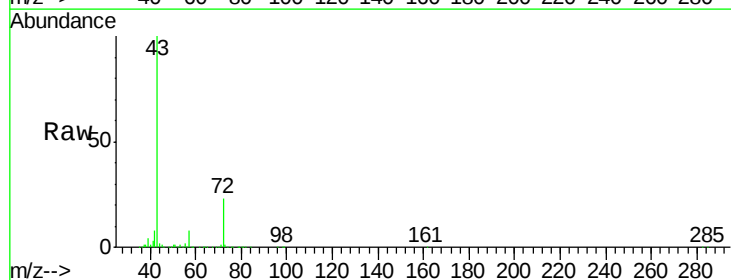
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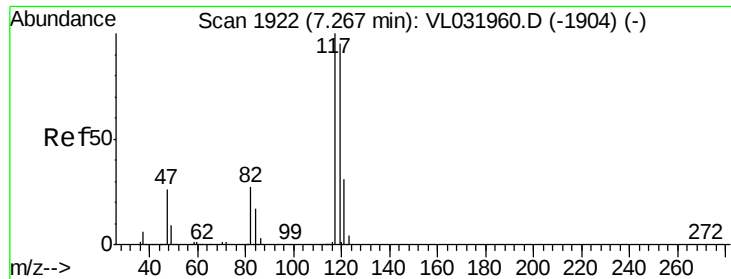
MMDadoda
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#34
 2-Butanone
 Concen: 8.73 ppbv
 RT: 5.45 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.3	27.5





#35

Carbon Tetrachloride

Concen: 9.47 ppbv

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 1894173

Ion Ratio Lower Upper

117 100

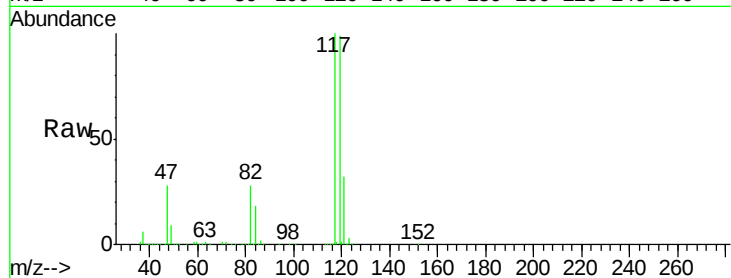
119 98.9 76.4 114.6

121 32.2 24.4 36.6

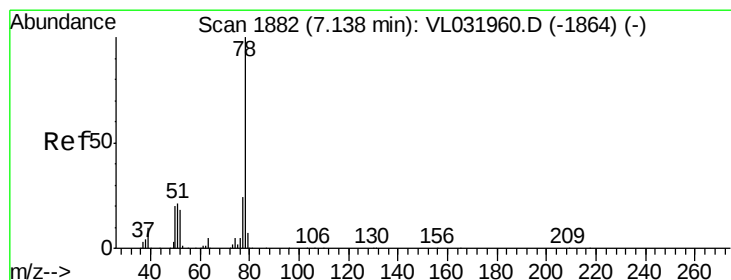
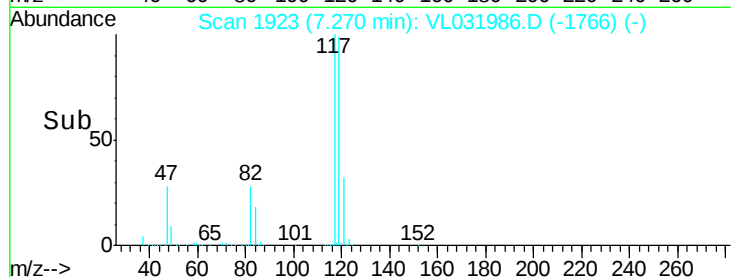
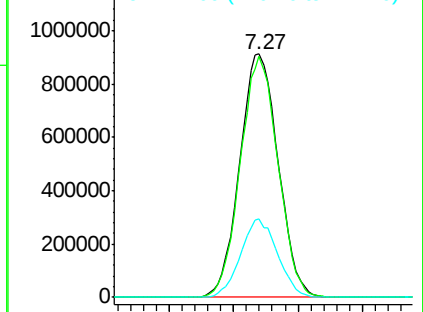
Manual Integrations
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.87 ppbv

RT: 7.14 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

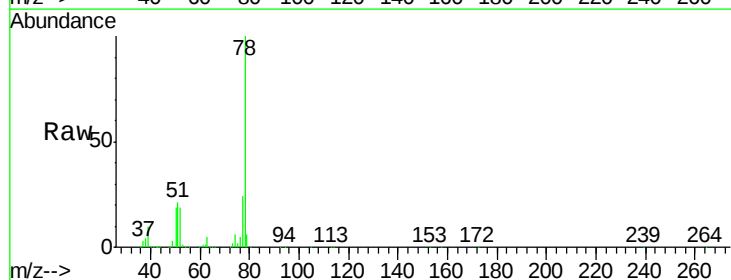
Tgt Ion: 78 Resp: 2110158

Ion Ratio Lower Upper

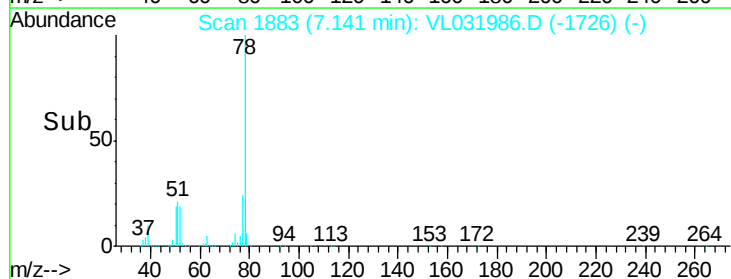
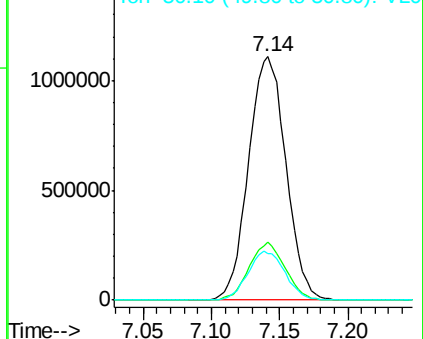
78 100

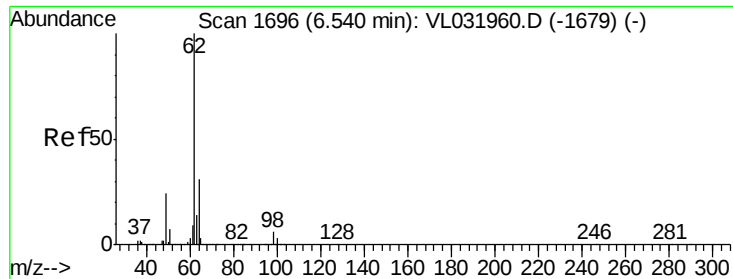
77 23.8 19.2 28.8

50 19.3 16.2 24.4



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





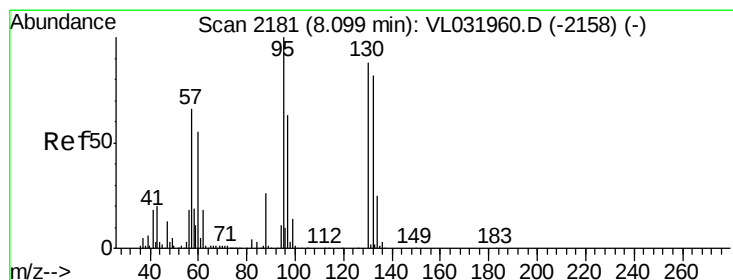
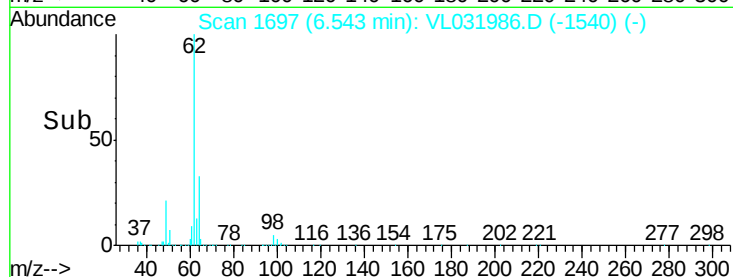
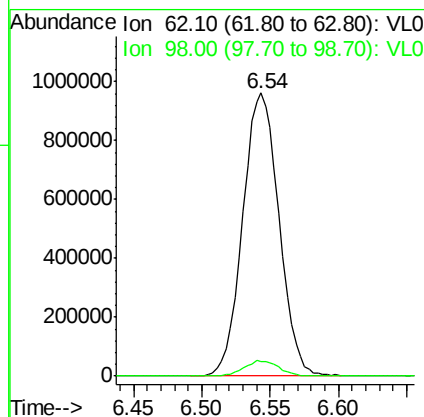
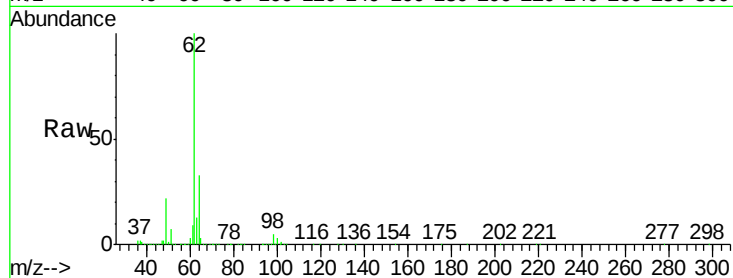
#37
 1,2-Dichloroethane
 Concen: 10.38 ppbv
 RT: 6.54 min Scan# 1697
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1775059
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.6 6.8

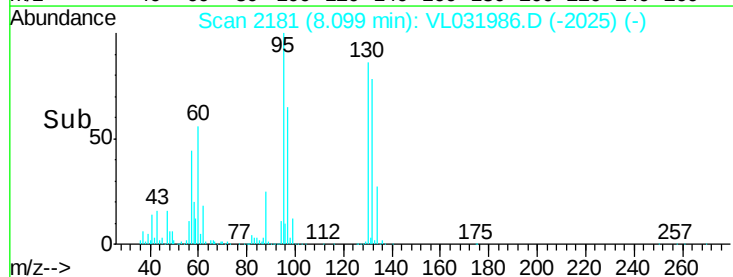
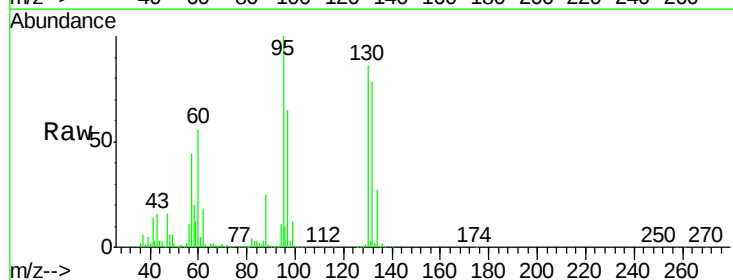
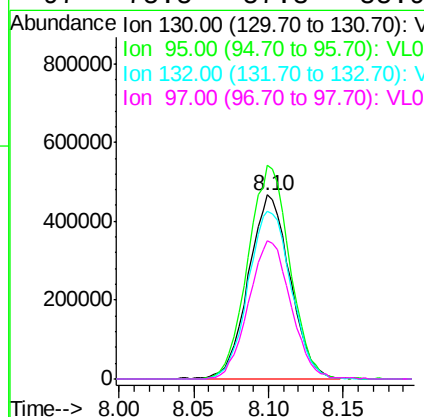
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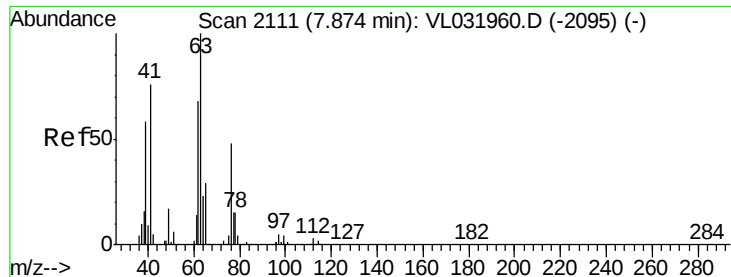
MMDadoda
 5/4/2018 5:01:22 PM



#38
 Trichloroethene
 Concen: 9.86 ppbv
 RT: 8.10 min Scan# 2181
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion:130 Resp: 890242
 Ion Ratio Lower Upper
 130 100
 95 116.2 90.7 136.1
 132 91.2 74.3 111.5
 97 75.5 57.3 85.9





#39

1,2-Dichloropropane

Concen: 9.46 ppbv

RT: 7.87 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

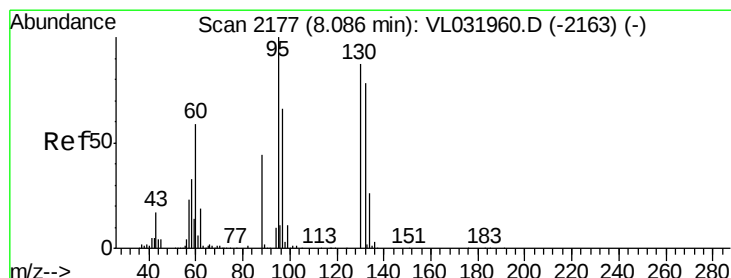
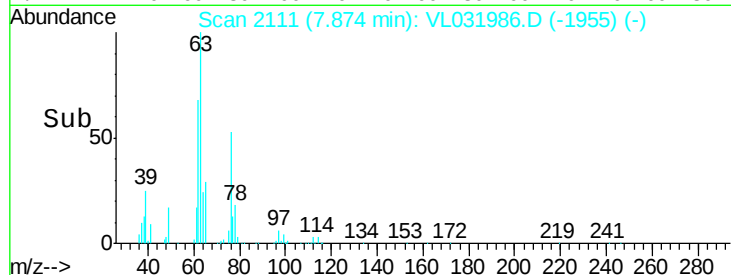
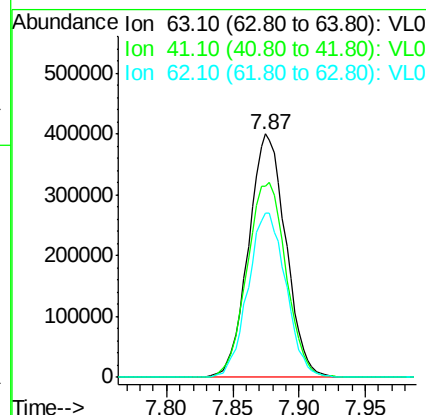
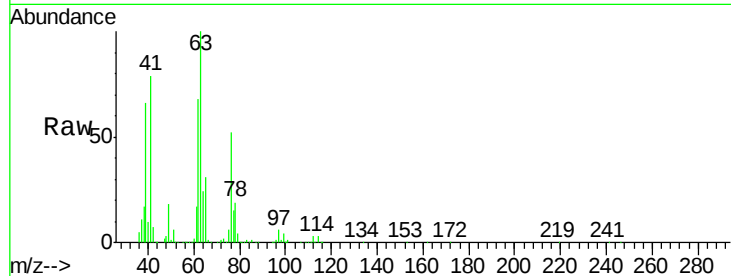
VSTDCCC010EC

Tot Ion: 63 Resp: 782925

Ion	Ratio	Lower	Upper
63	100		
41	78.6	60.7	91.1
62	67.6	54.7	82.1

Manual Integrations
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MMDadoda
5/4/2018 5:01:22 PM



#40

1,4-Dioxane

Concen: 9.83 ppbv

RT: 8.09 min Scan# 2178

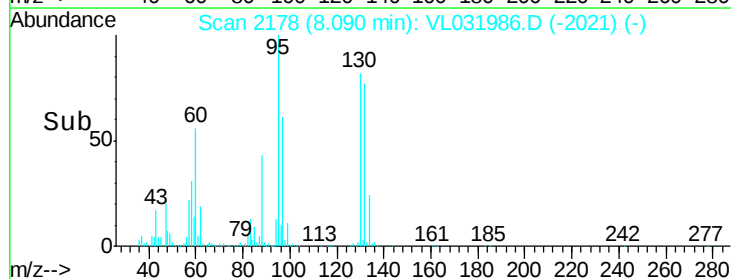
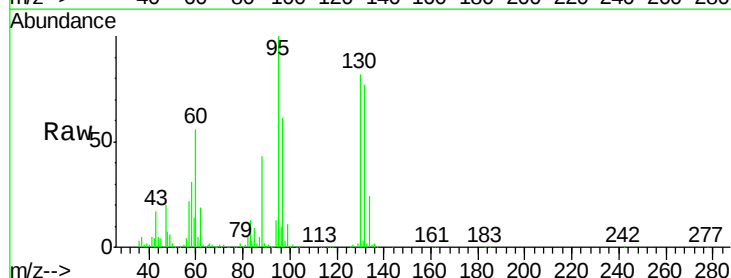
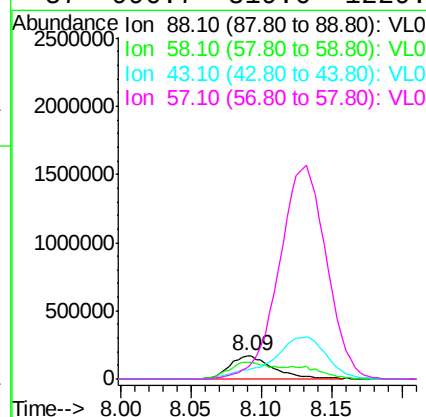
Delta R.T. 0.00 min

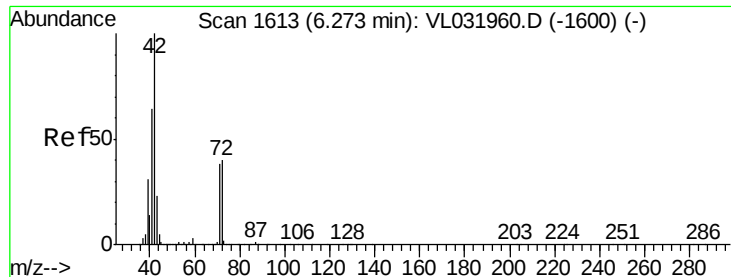
Lab File: VL031986.D

Acq: 4 May 2018 6:42

Tgt Ion: 88 Resp: 366546

Ion	Ratio	Lower	Upper
88	100		
58	120.1	94.9	142.3
43	228.3	188.2	282.2
57	996.7	819.6	1229.4





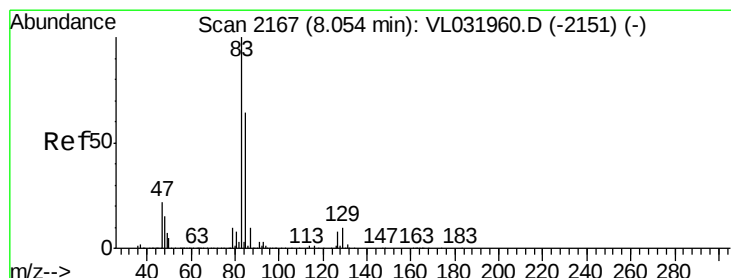
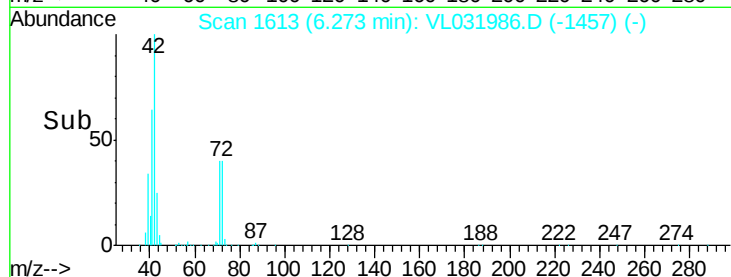
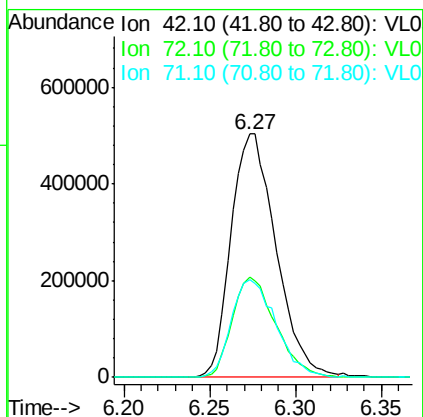
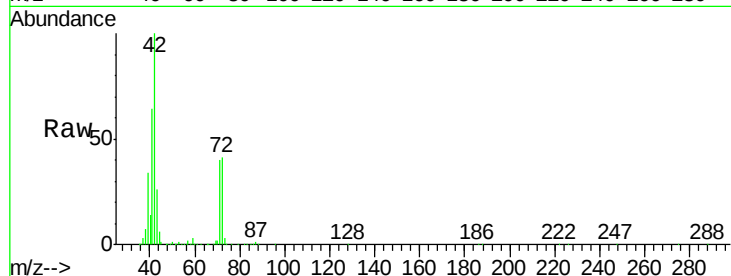
#41
Tetrahydrofuran
Concen: 10.11 ppbv
RT: 6.27 min Scan# 1613
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.3	48.5
71	40.3	31.4	47.2

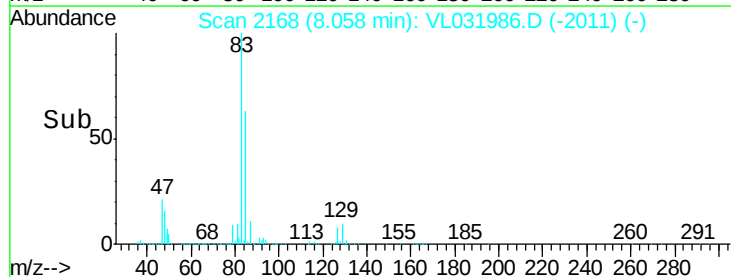
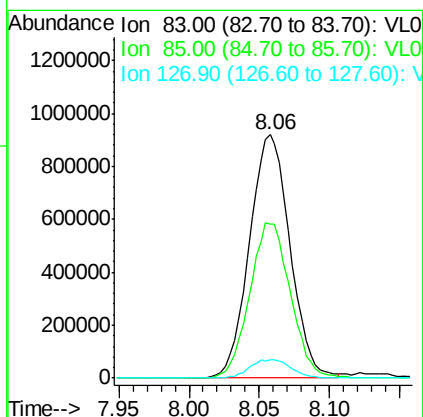
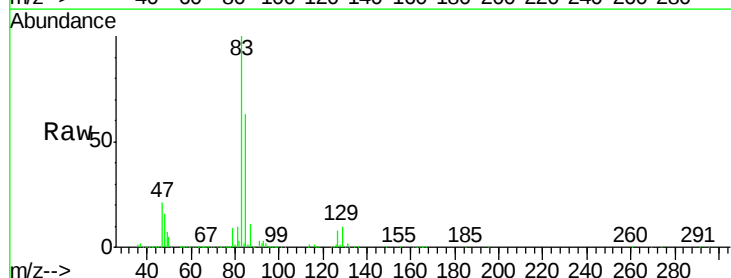
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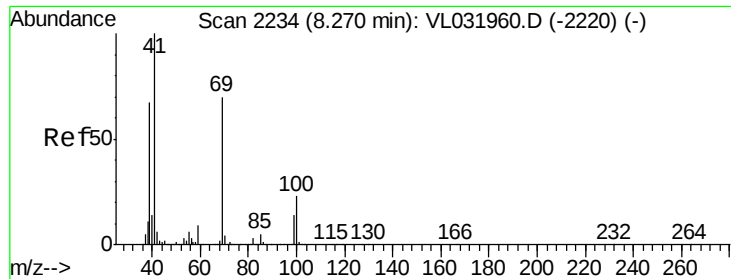
MMDadoda
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#42
Bromodichloromethane
Concen: 9.71 ppbv
RT: 8.06 min Scan# 2168
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.0	76.6
127	7.5	6.7	10.1





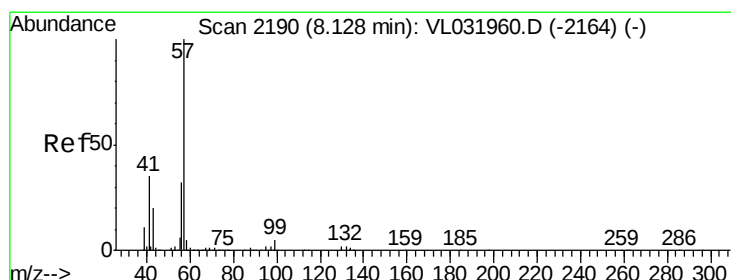
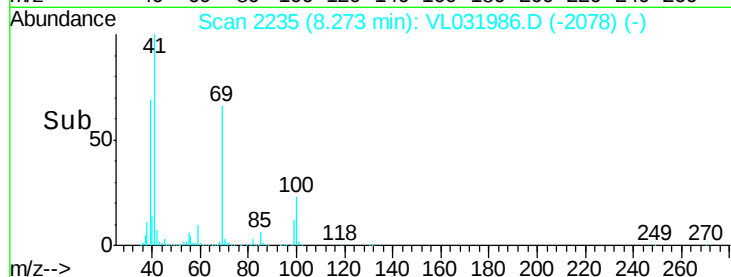
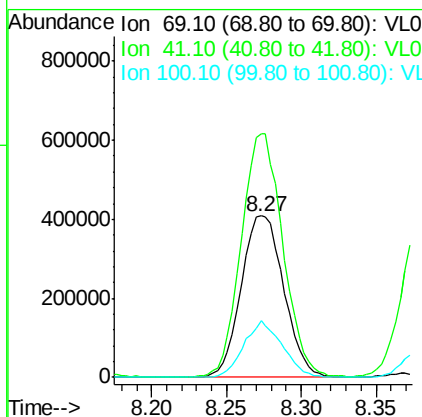
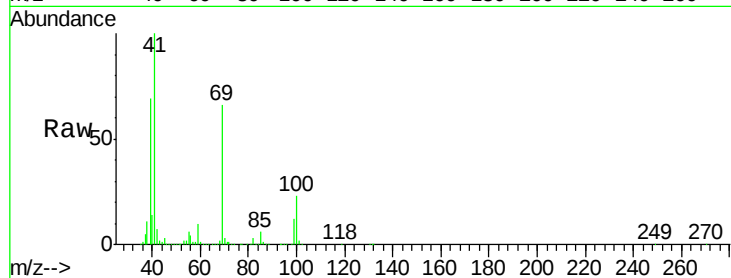
#43
Methvl Methacrylate
Concen: 10.11 ppbv
RT: 8.27 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.2	119.4	179.2	
100	31.8	26.0	39.0	

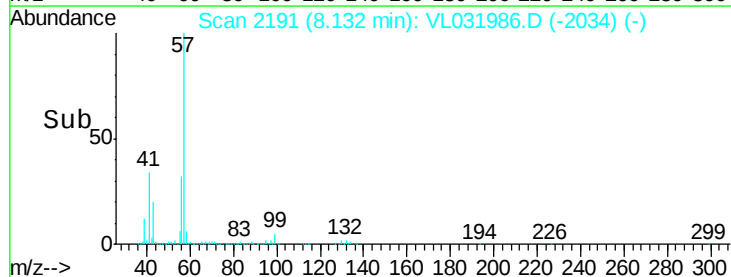
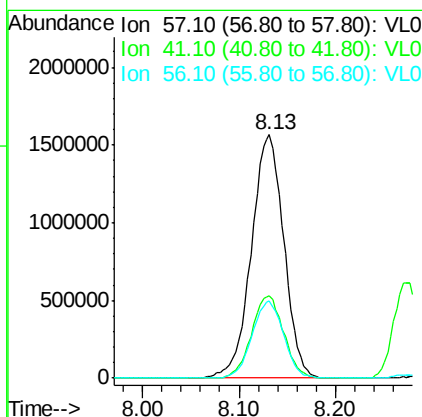
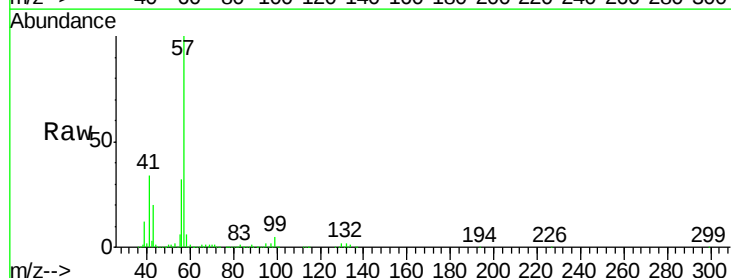
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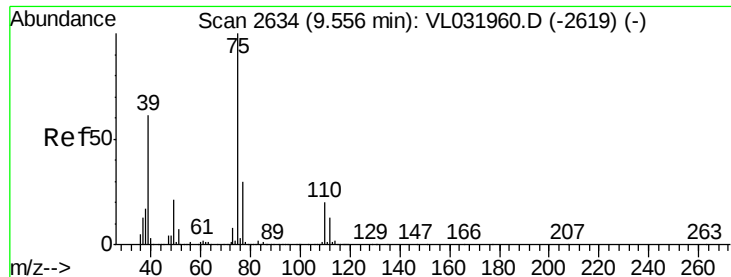
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.52 ppbv
RT: 8.13 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.4	26.6	39.8	
56	30.7	24.4	36.6	





#45

t-1,3-Dichloropropene

Concen: 10.90 ppbv

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Tot Ion: 75 Resp: 1157737

Ion Ratio Lower Upper

75 100

77 30.1 24.4 36.6

Instrument :

MSVOA_L

ClientSampleId :

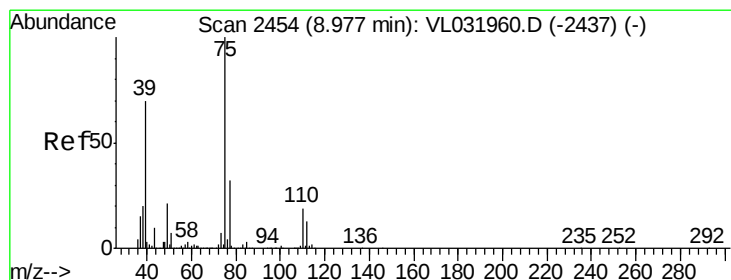
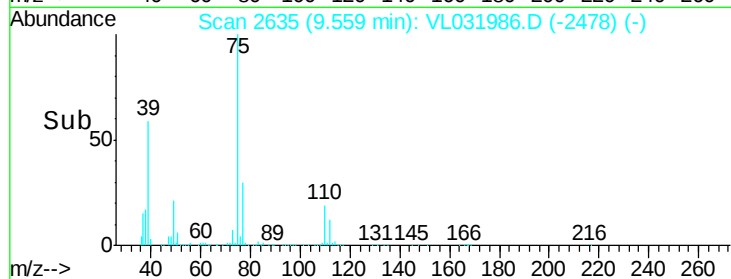
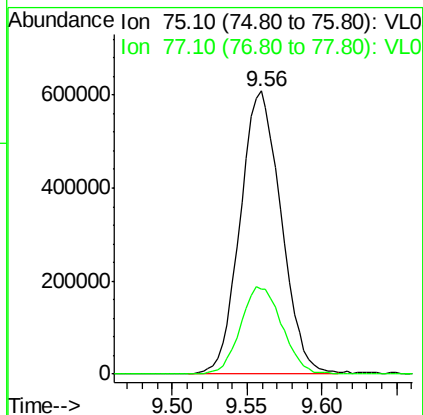
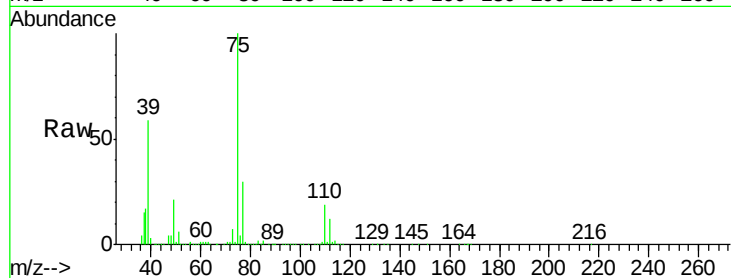
VSTDCCC010EC

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#46

cis-1,3-Dichloropropene

Concen: 10.70 ppbv

RT: 8.98 min Scan# 2454

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

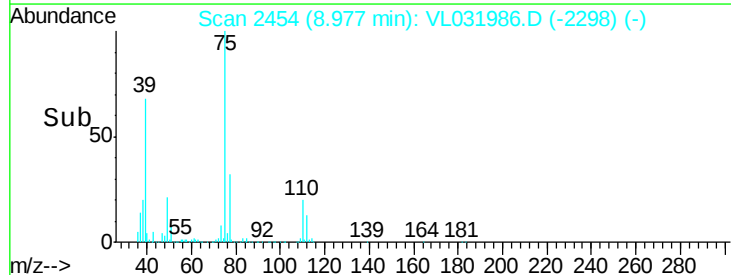
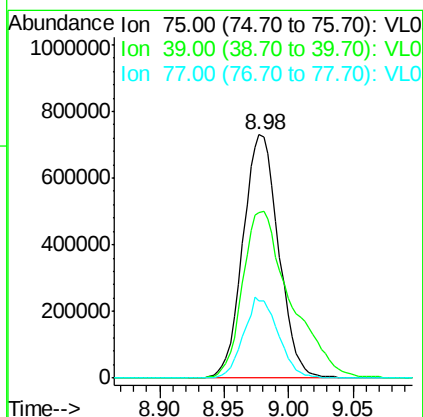
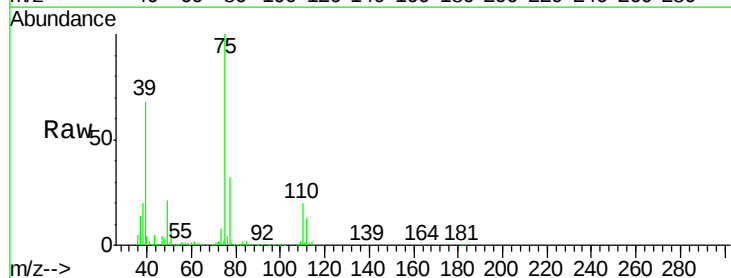
Tgt Ion: 75 Resp: 1403182

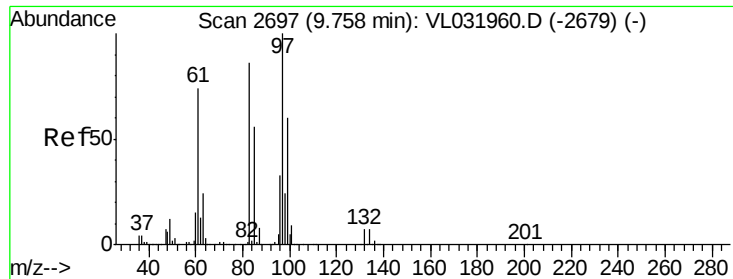
Ion Ratio Lower Upper

75 100

39 67.9 55.7 83.5

77 31.7 25.9 38.9





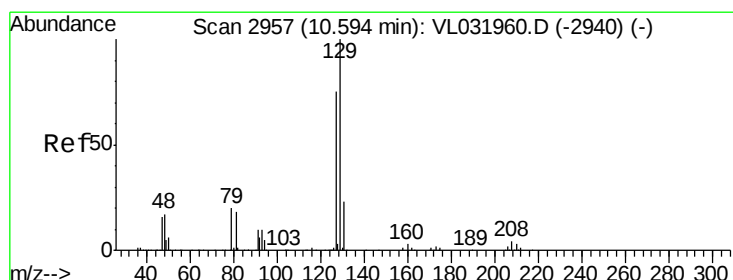
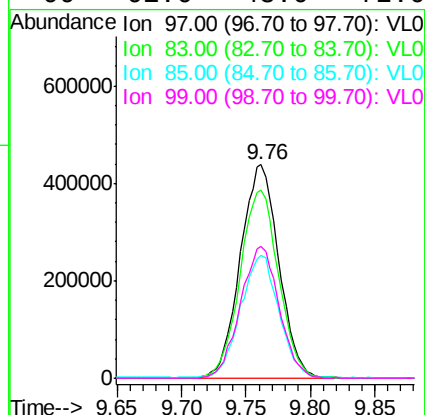
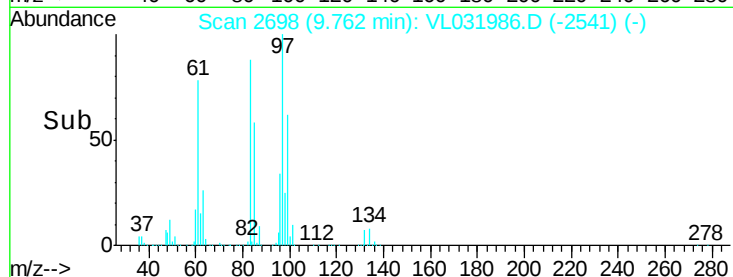
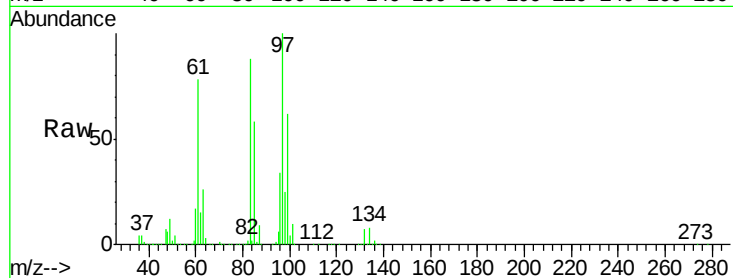
#47
 1,1,2-Trichloroethane
 Concen: 9.28 ppbv
 RT: 9.76 min Scan# 2698
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		908693		
83	88.0	69.0	103.4		
85	57.5	45.0	67.6		
99	61.6	48.0	72.0		

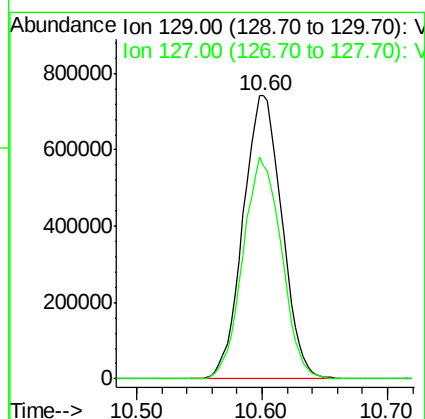
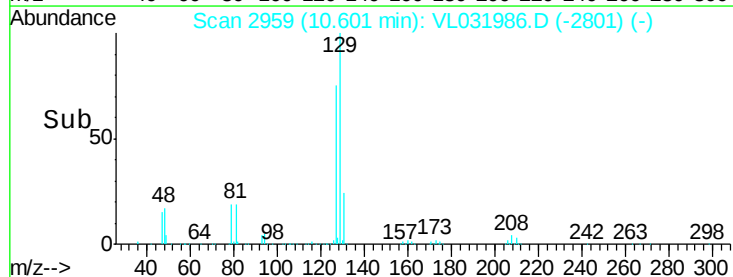
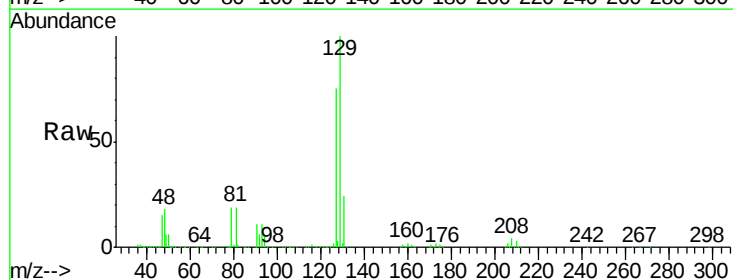
Manual Integrations
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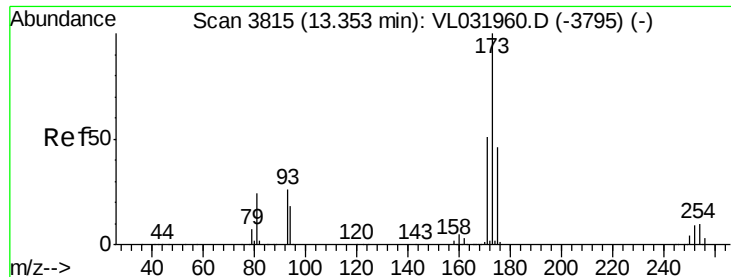
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#48
 Dibromochloromethane
 Concen: 10.18 ppbv
 RT: 10.60 min Scan# 2959
 Delta R.T. 0.01 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1598835		
127	77.8	39.1	117.2		





#49

Bromoform

Concen: 10.12 ppbv

RT: 13.35 min Scan# 3815

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1232346

Ion Ratio Lower Upper

173 100

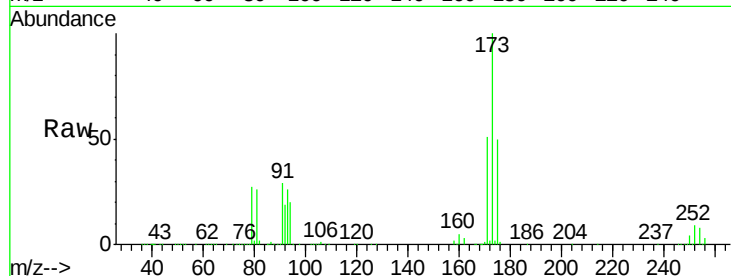
175 49.2 39.2 58.8

171 52.0 41.5 62.3

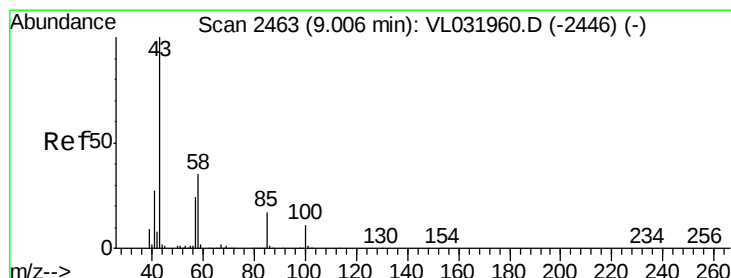
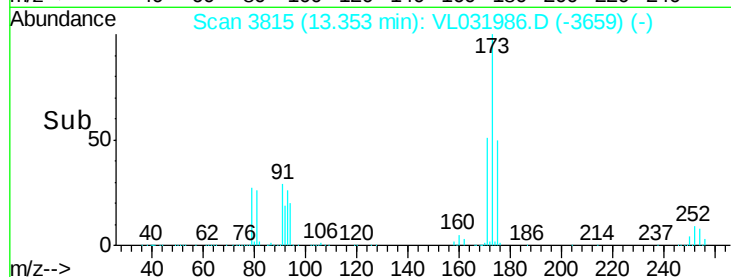
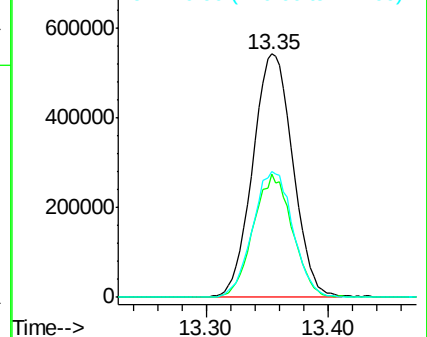
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.68 ppbv

RT: 9.01 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VL031986.D

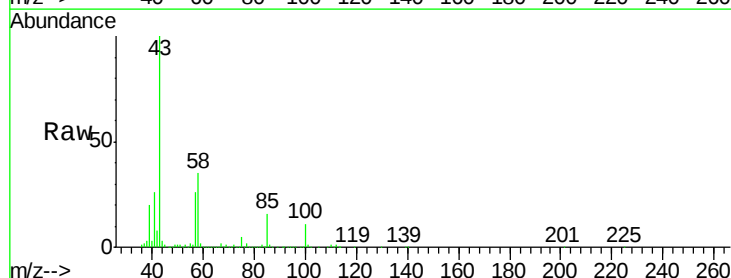
Acq: 4 May 2018 6:42

Tgt Ion: 43 Resp: 1903787

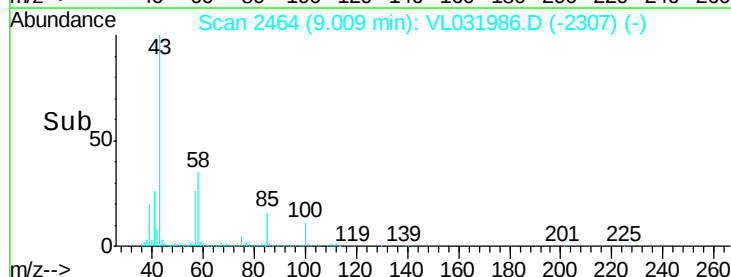
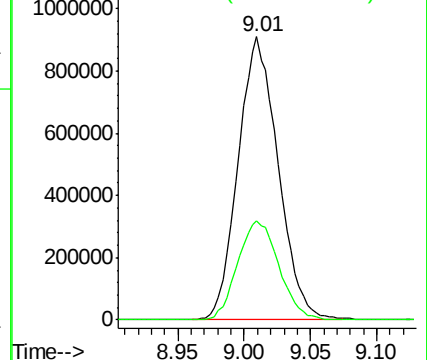
Ion Ratio Lower Upper

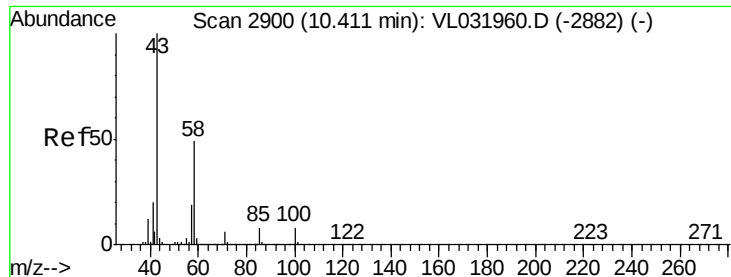
43 100

58 36.2 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.33 ppbv

RT: 10.41 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1850436

Ion Ratio Lower Upper

43 100

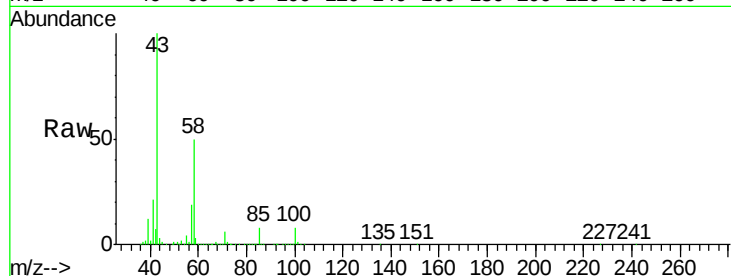
58 48.5 38.6 58.0

98 0.3 0.2 0.2#

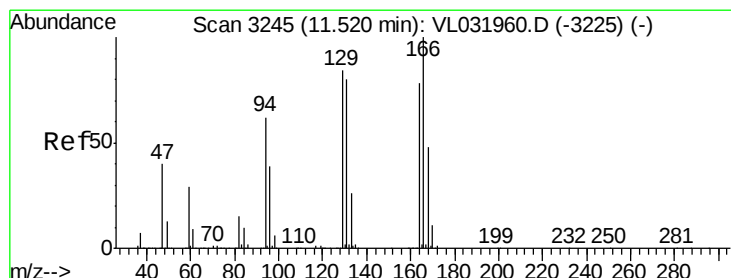
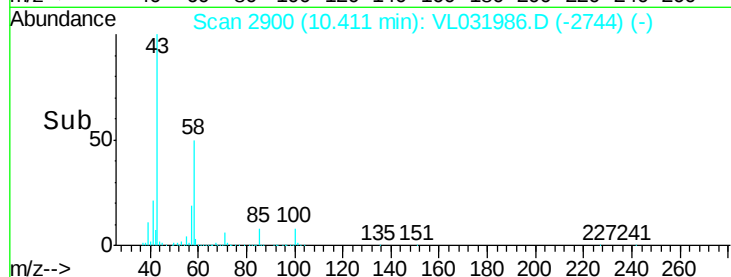
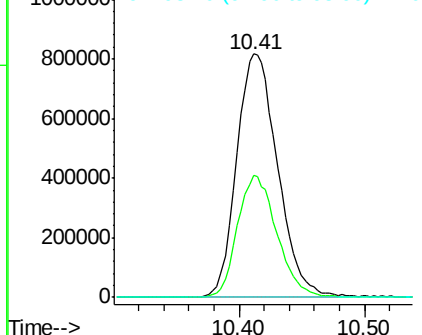
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.42 ppbv

RT: 11.52 min Scan# 3246

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Tgt Ion: 164 Resp: 829221

Ion Ratio Lower Upper

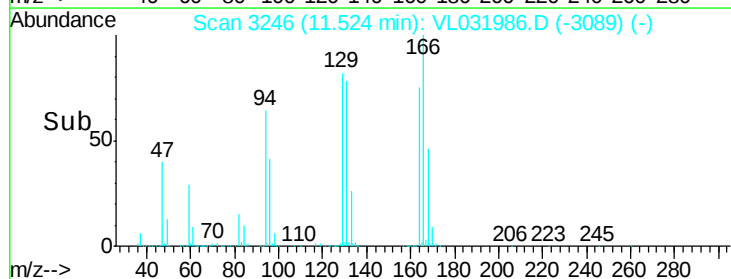
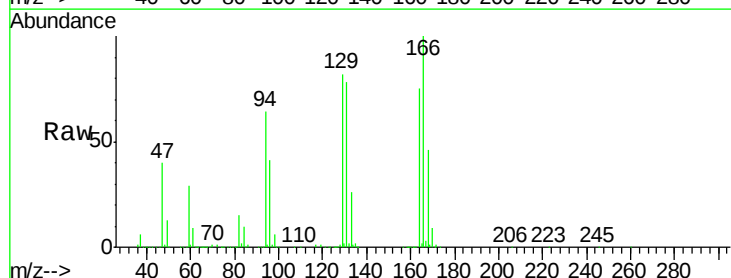
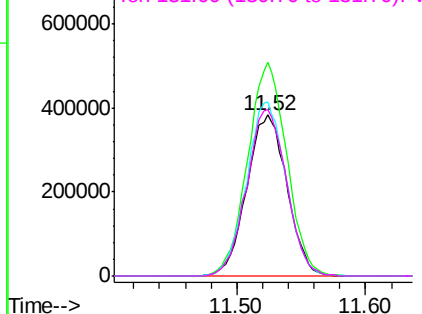
164 100

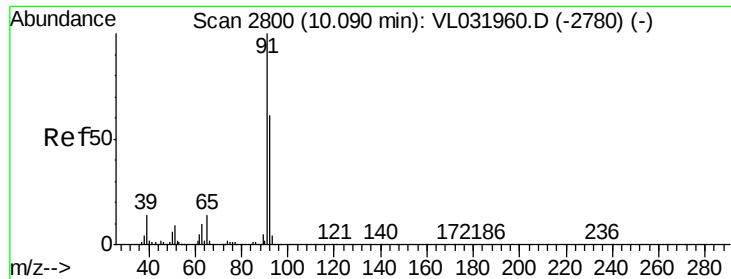
166 132.8 101.9 152.9

129 108.5 85.8 128.6

131 103.4 81.6 122.4

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.98 ppbv

RT: 10.09 min Scan# 2801

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2557877

Ion Ratio Lower Upper

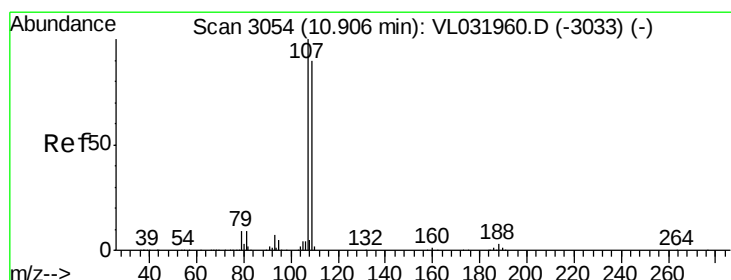
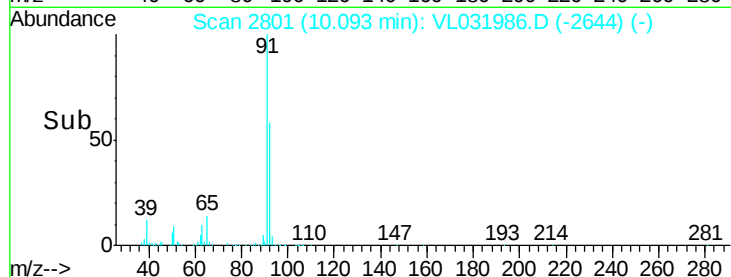
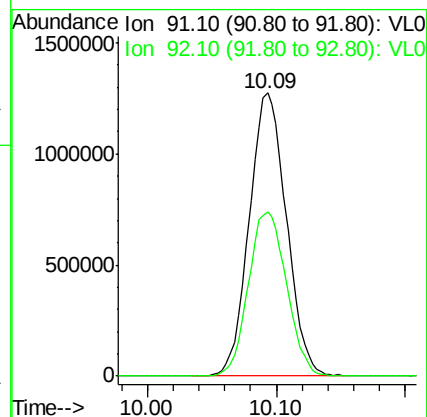
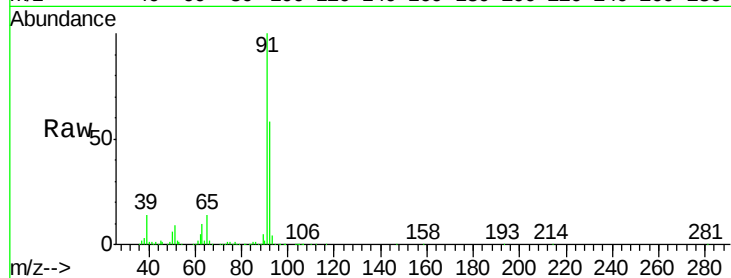
91 100

92 59.8 47.4 71.2

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#54

1,2-Dibromoethane

Concen: 9.70 ppbv

RT: 10.91 min Scan# 3055

Delta R.T. 0.00 min

Lab File: VL031986.D

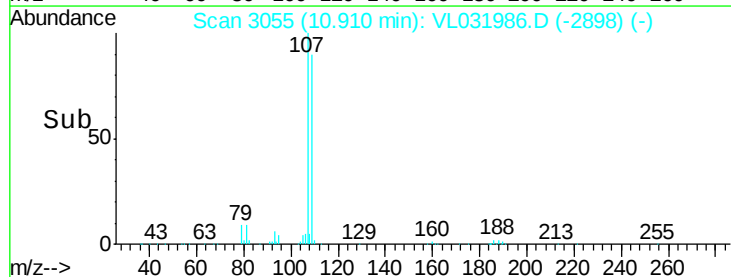
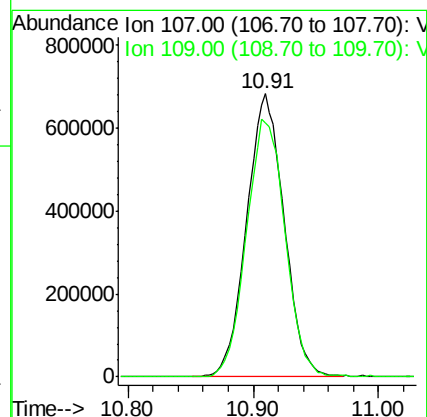
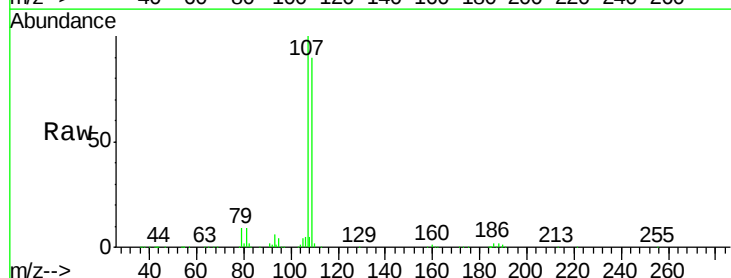
Acq: 4 May 2018 6:42

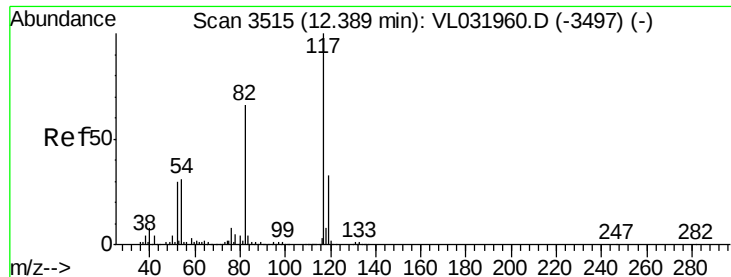
Tgt Ion: 107 Resp: 1415935

Ion Ratio Lower Upper

107 100

109 89.9 72.1 108.1





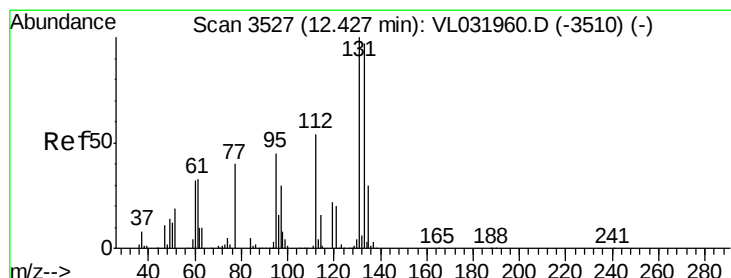
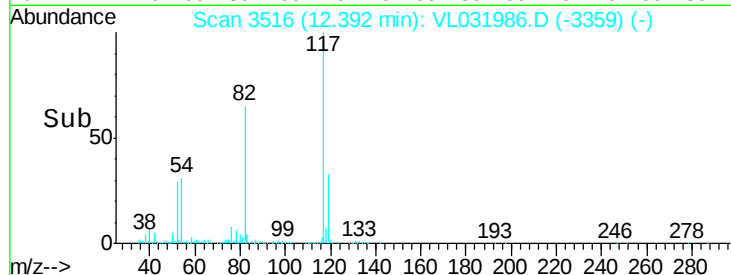
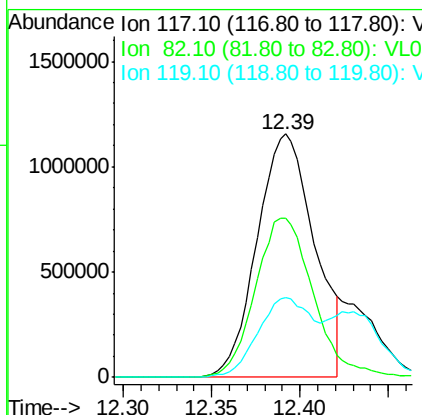
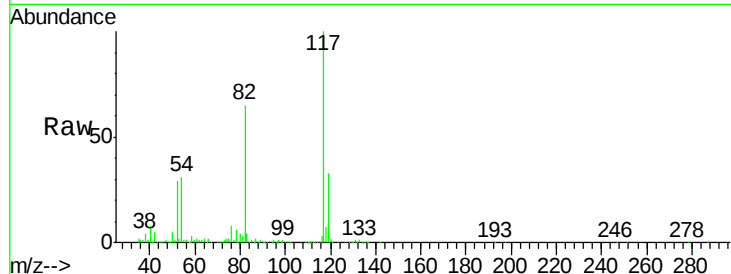
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.39 min Scan# 3516
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2611790
Ion Ratio Lower Upper
117 100
82 66.6 51.6 77.4
119 56.5 44.2 66.4

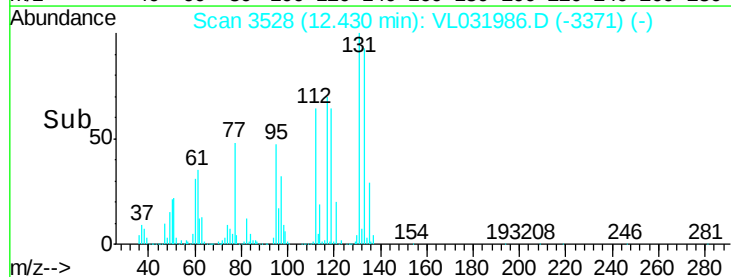
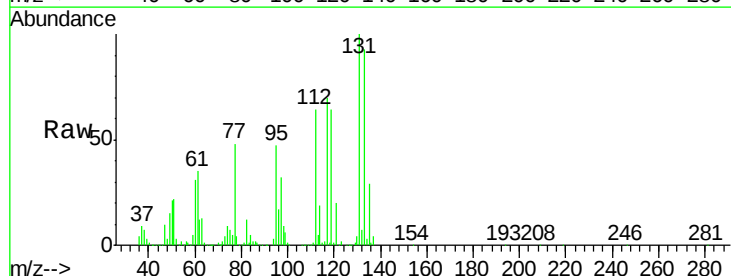
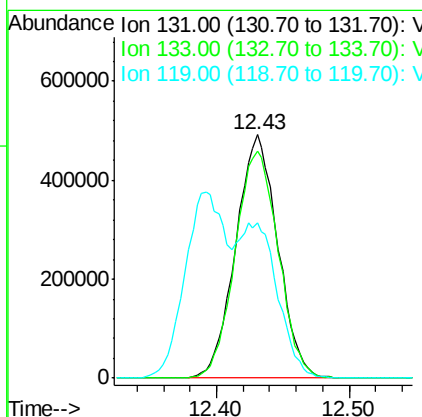
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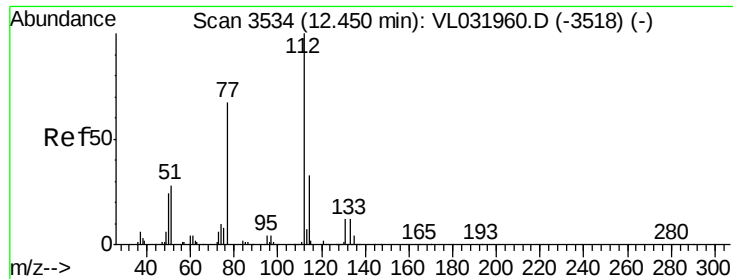
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.05 ppbv
RT: 12.43 min Scan# 3528
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion:131 Resp: 1076870
Ion Ratio Lower Upper
131 100
133 96.4 76.2 114.4
119 61.0 44.7 67.1





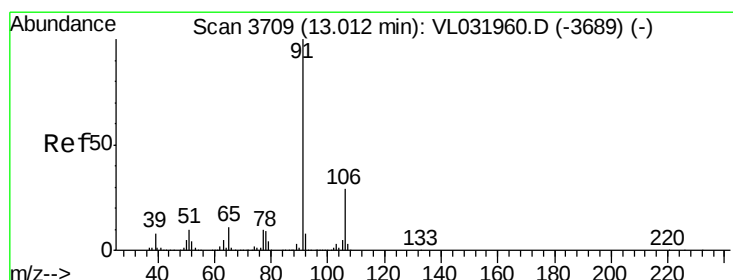
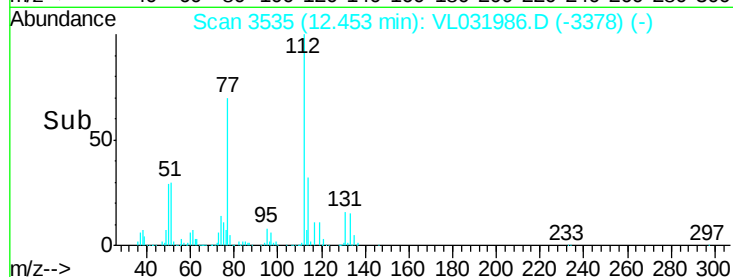
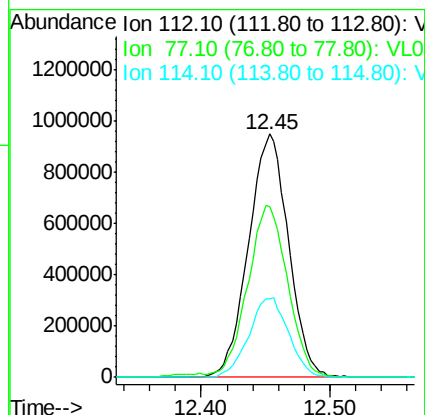
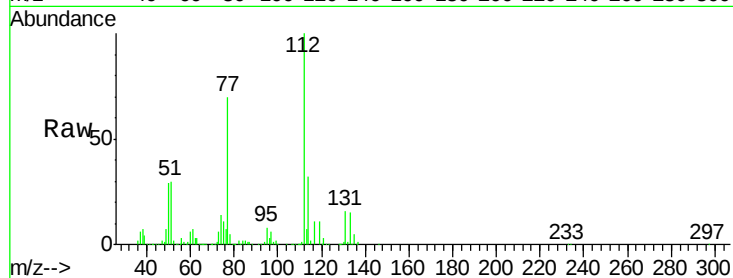
#57
Chlorobenzene
Concen: 9.06 ppbv
RT: 12.45 min Scan# 3535
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:112 Resp: 2041105
Ion Ratio Lower Upper
112 100
77 69.9 54.6 82.0
114 32.4 29.2 35.6

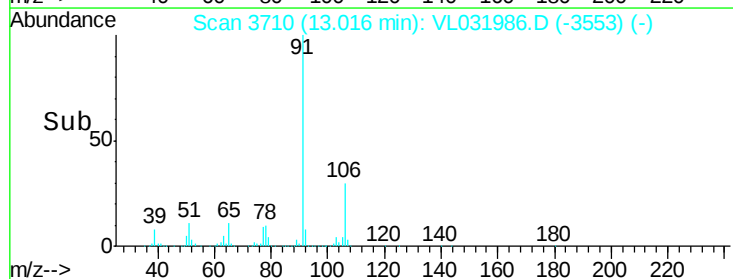
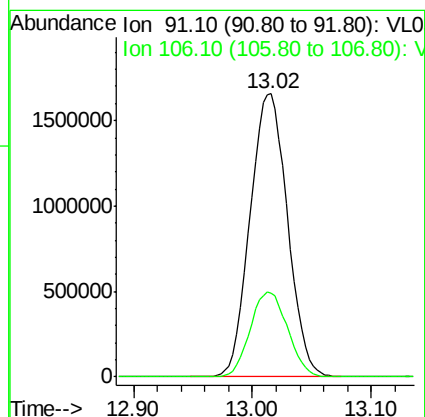
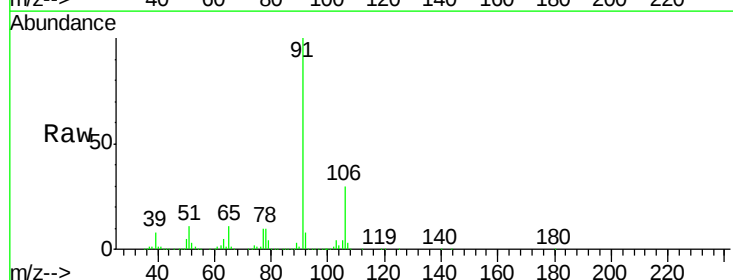
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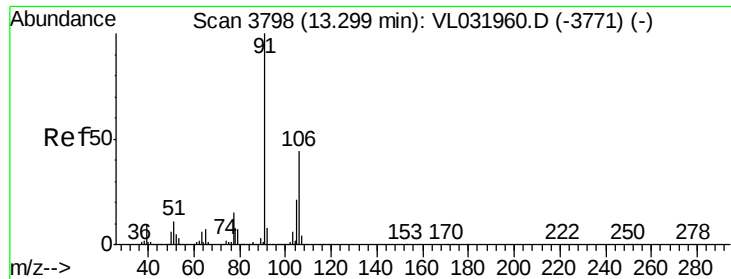
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#58
Ethyl Benzene
Concen: 9.65 ppbv
RT: 13.02 min Scan# 3710
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion: 91 Resp: 3610544
Ion Ratio Lower Upper
91 100
106 29.7 23.4 35.2





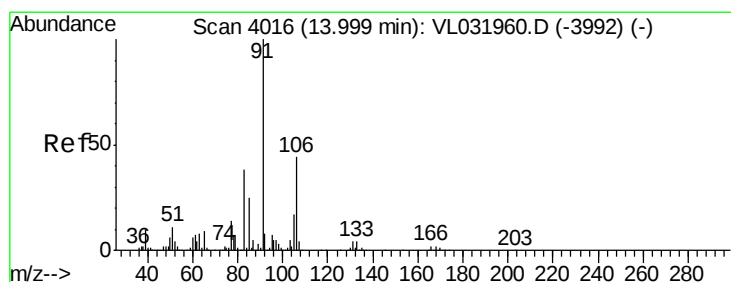
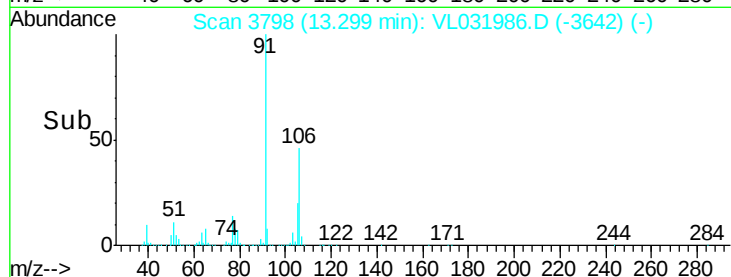
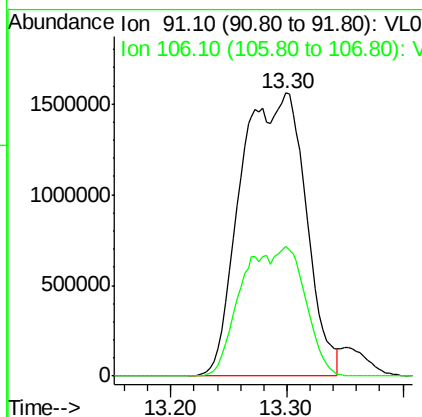
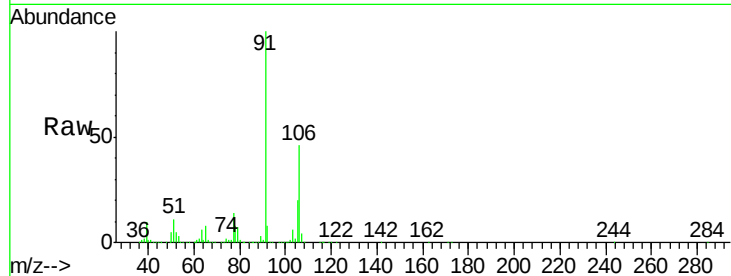
#59
m/p-Xylene
Concen: 19.17 ppbv m
RT: 13.30 min Scan# 3798
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 6081631
Ion Ratio Lower Upper
91 100
106 44.7 35.9 53.9

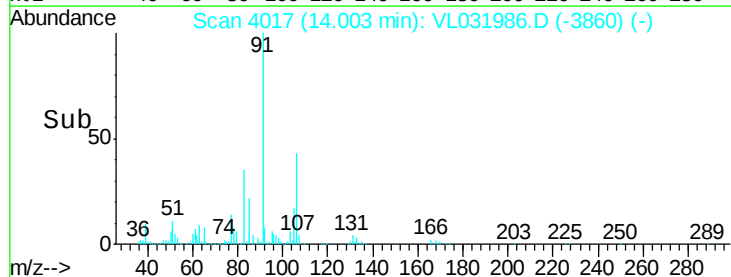
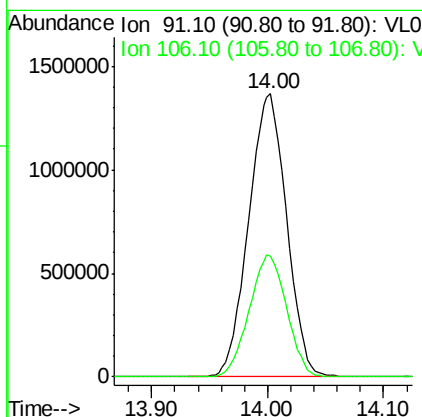
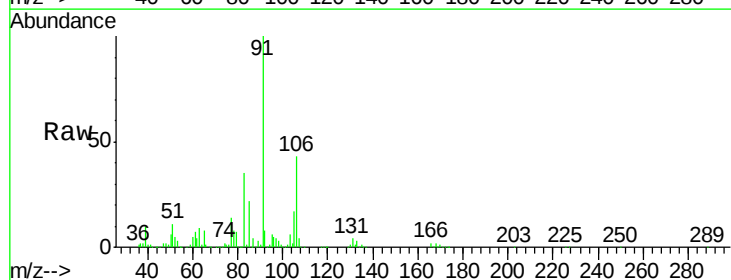
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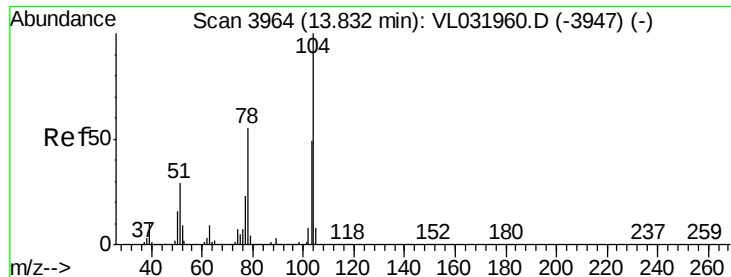
MMDadoda
5/4/2018 5:01:22 PM



#60
o-Xylene
Concen: 9.73 ppbv
RT: 14.00 min Scan# 4017
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion: 91 Resp: 3096884
Ion Ratio Lower Upper
91 100
106 42.8 21.5 64.5





#61

Stvrene

Concen: 10.95 ppbv

RT: 13.84 min Scan# 3966

Delta R.T. 0.01 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

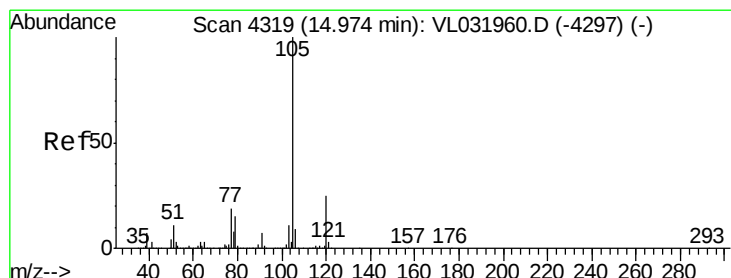
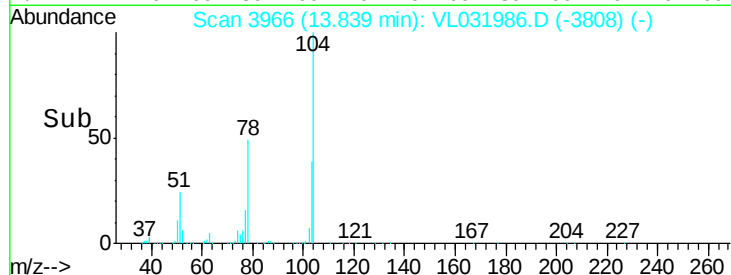
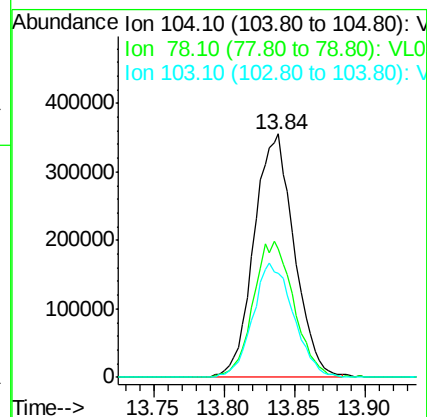
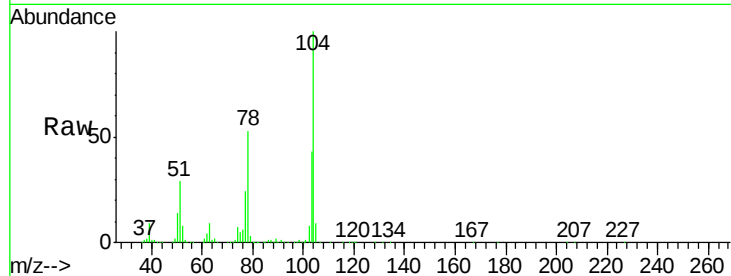
ClientSampleId :

VSTDCCC010EC

Tot Ion:	104	Resp:	707111
Ion Ratio	Lower	Upper	
104	100		
78	57.0	43.8	65.8
103	47.5	38.4	57.6

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#62

Isopropylbenzene

Concen: 9.37 ppbv

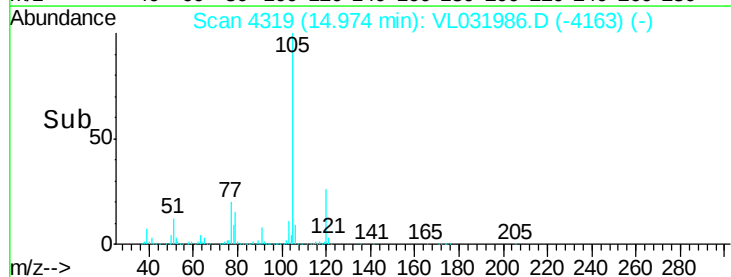
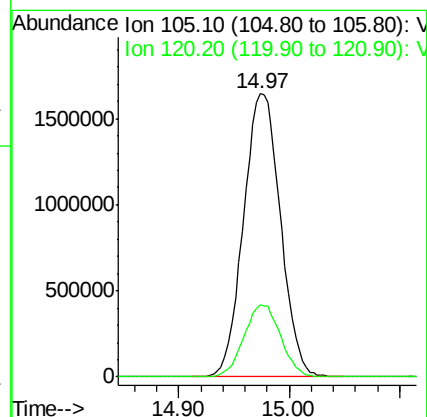
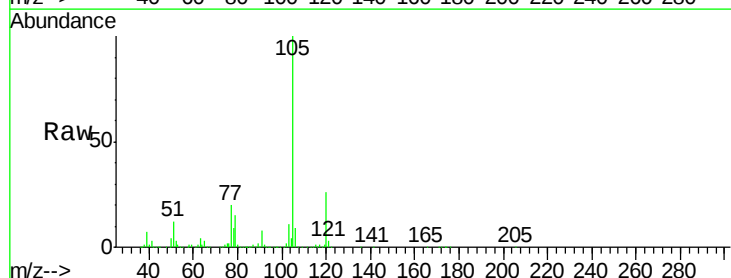
RT: 14.97 min Scan# 4319

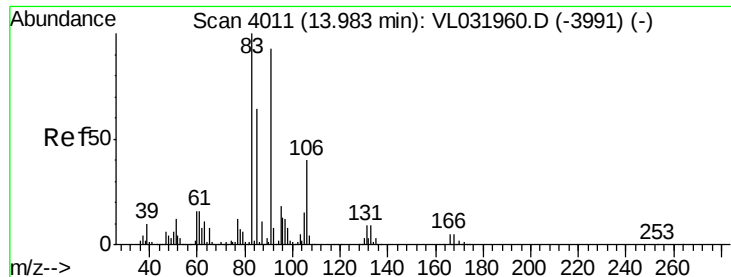
Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Tgt Ion:	105	Resp:	3814140
Ion Ratio	Lower	Upper	
105	100		
120	25.2	19.9	29.9





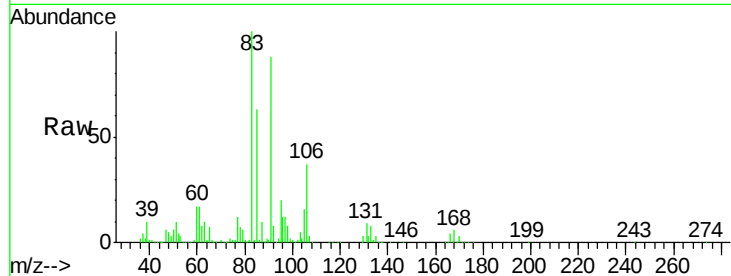
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.77 ppbv
 RT: 13.98 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

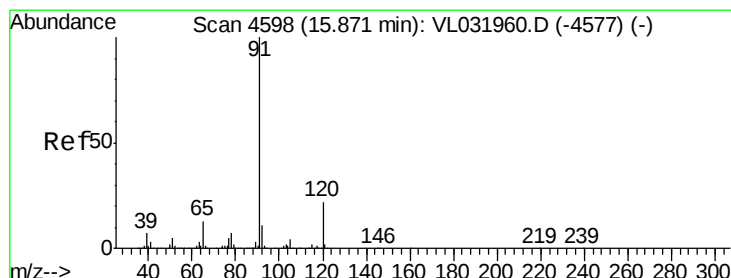
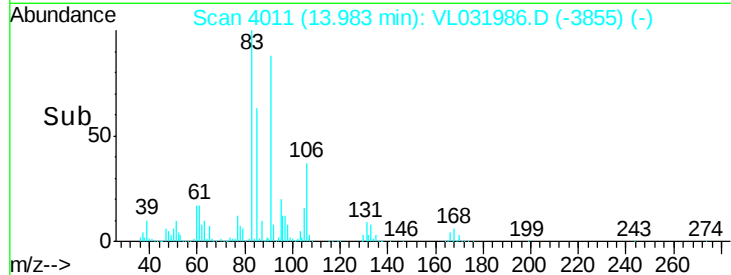
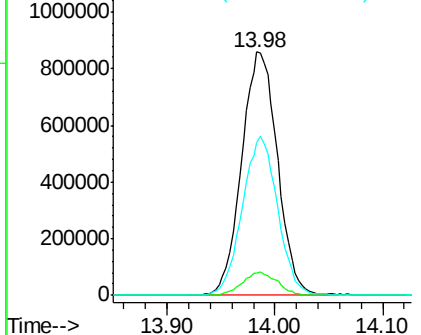
Tot Ion	83	Resp	1983546
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.9	14.7
85	64.6	32.7	98.1

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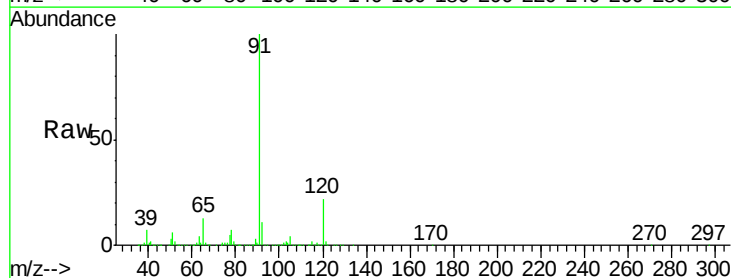


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

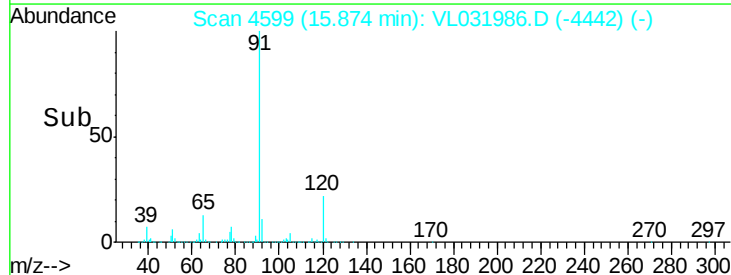
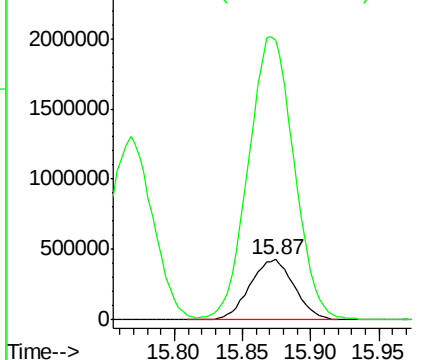


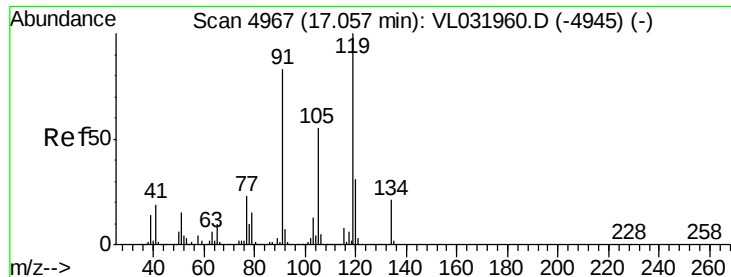
#64
 n-propylbenzene
 Concen: 9.51 ppbv
 RT: 15.87 min Scan# 4599
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion	120	Resp	970502
Ion Ratio	100	Lower	Upper
120	100		
91	483.5	388.6	583.0



Abundance Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0





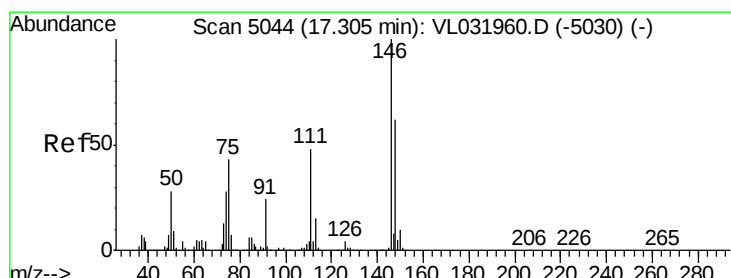
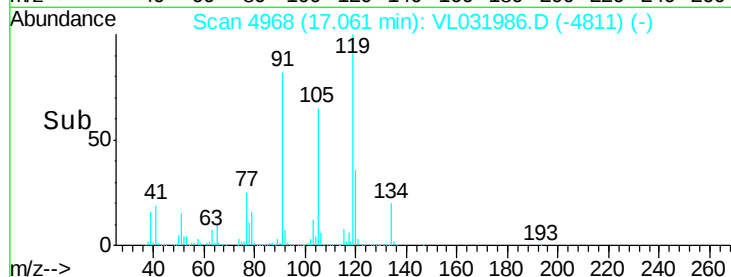
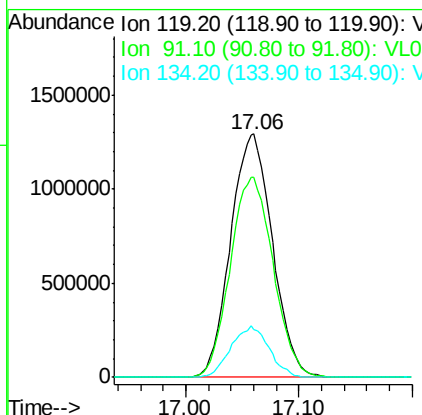
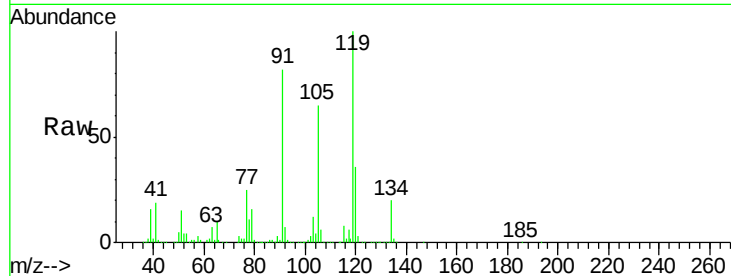
#65
tert-Butylbenzene
Concen: 9.13 ppbv
RT: 17.06 min Scan# 4968
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 119 Resp: 3315887
Ion Ratio Lower Upper
119 100
91 84.7 68.1 102.1
134 19.5 15.4 23.0

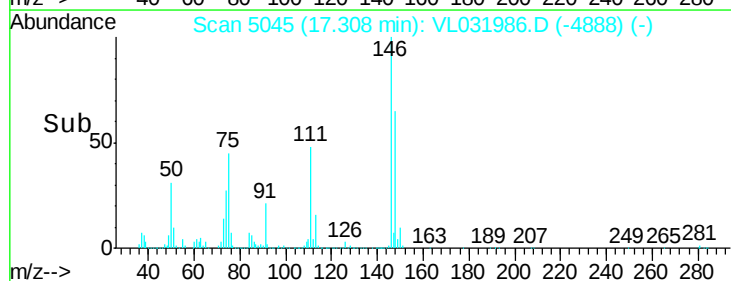
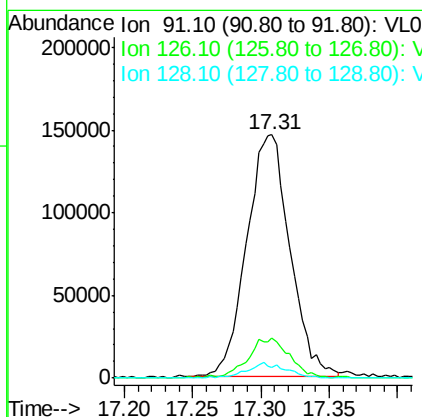
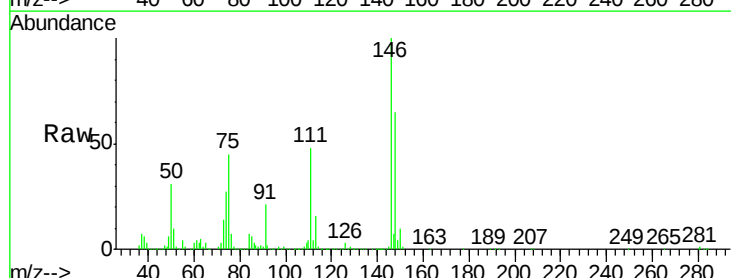
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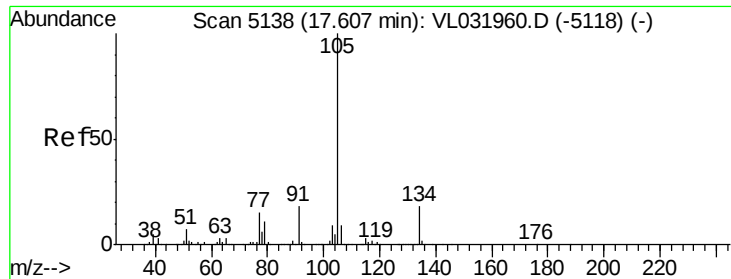
MMDadoda
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#66
Benzyl Chloride
Concen: 9.77 ppbv
RT: 17.31 min Scan# 5045
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion: 91 Resp: 322335
Ion Ratio Lower Upper
91 100
126 16.3 13.4 20.0
128 5.7 4.6 6.8





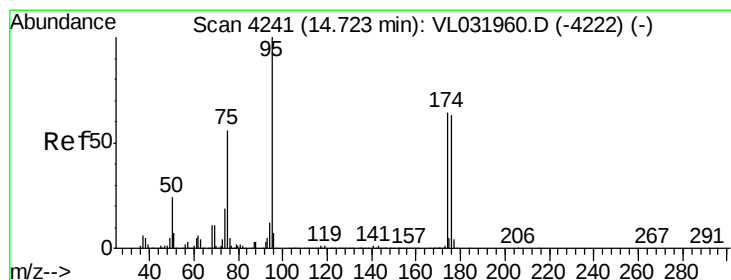
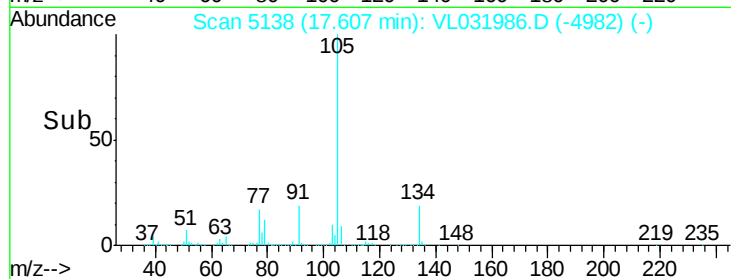
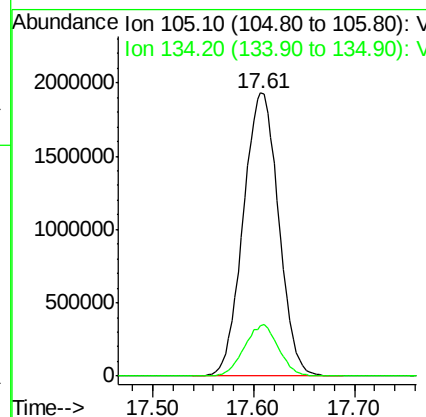
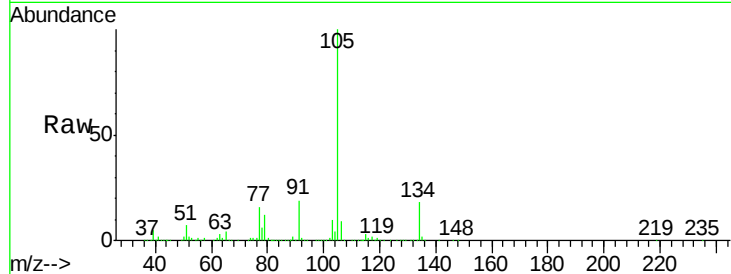
#67
 sec-Butylbenzene
 Concen: 9.29 ppbv
 RT: 17.61 min Scan# 5138
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 4683729
 Ion Ratio Lower Upper
 105 100
 134 17.6 14.2 21.4

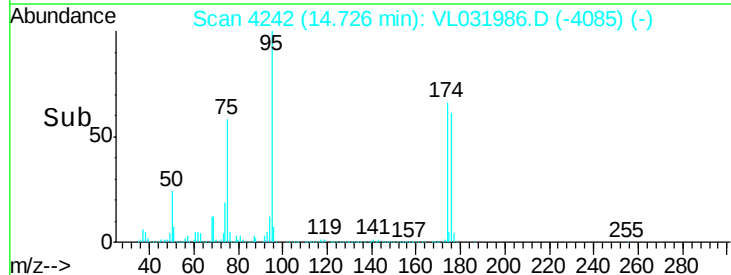
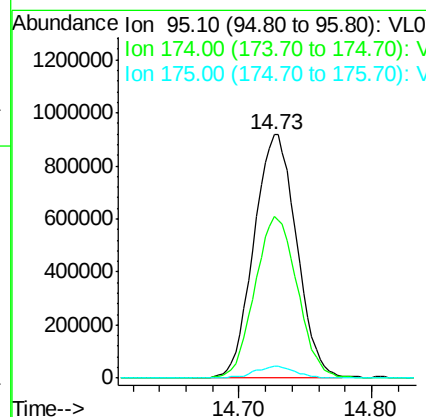
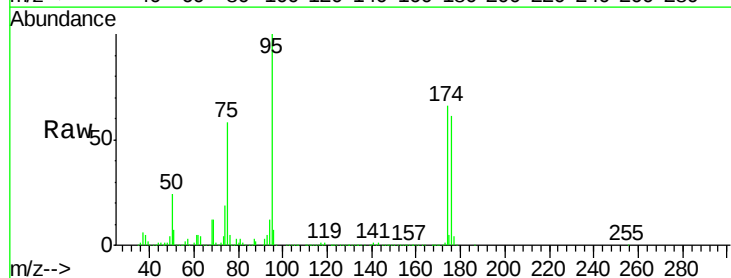
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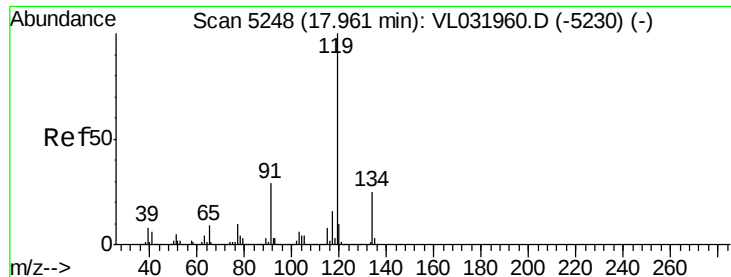
MMDadoda
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.12 ppbv
 RT: 14.73 min Scan# 4242
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion: 95 Resp: 2049226
 Ion Ratio Lower Upper
 95 100
 174 66.6 53.0 79.6
 175 4.7 3.9 5.9





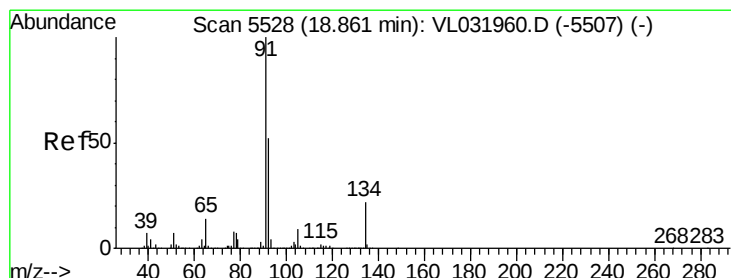
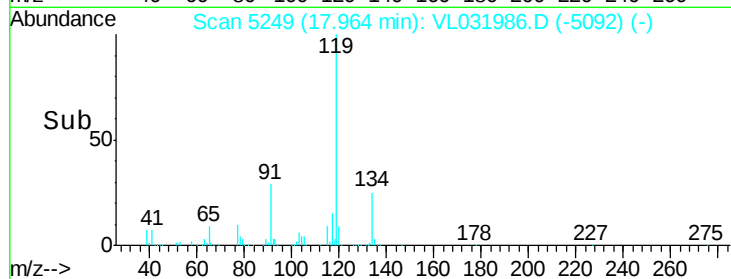
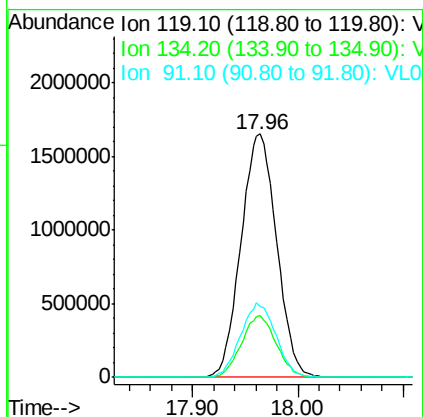
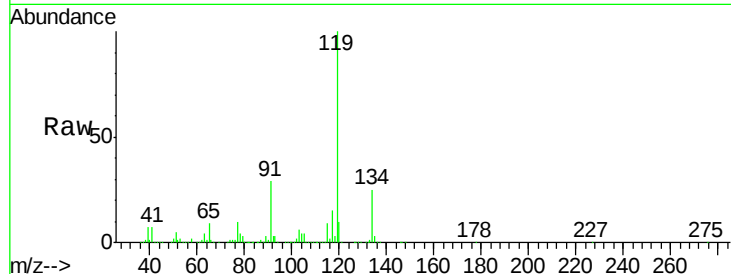
#69
p-Isopropyltoluene
Concen: 9.58 ppbv
RT: 17.96 min Scan# 5249
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.7	19.8	29.8
91	30.3	23.8	35.6

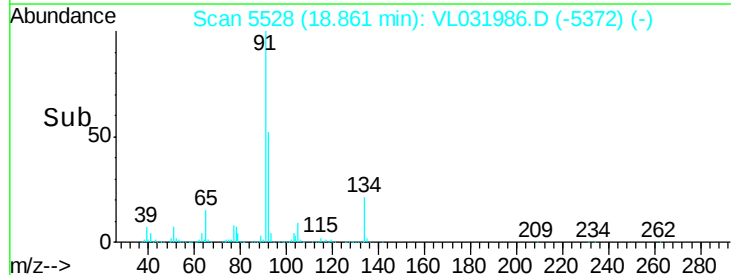
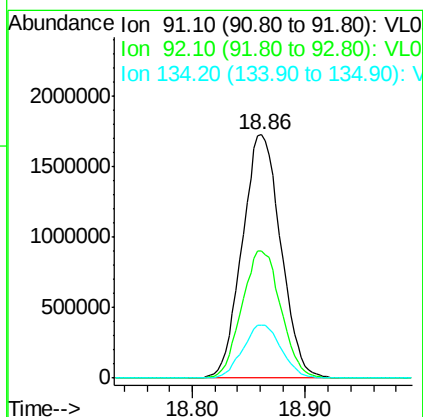
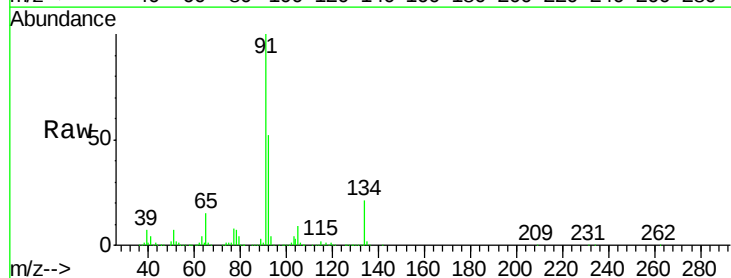
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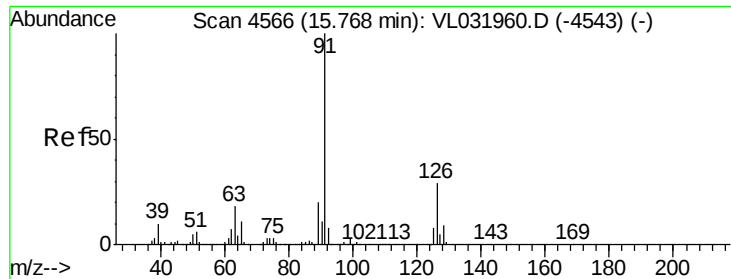
MMDadoda
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#70
n-Butylbenzene
Concen: 9.74 ppbv
RT: 18.86 min Scan# 5528
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	41.8	62.8
134	21.8	17.6	26.4





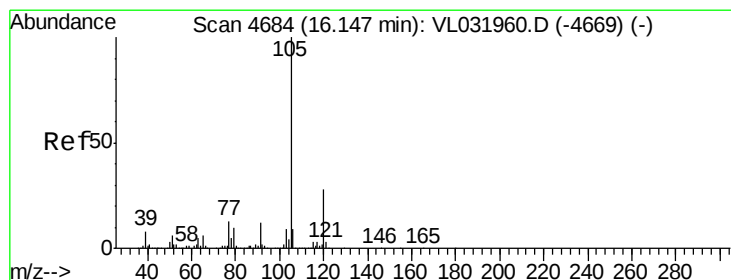
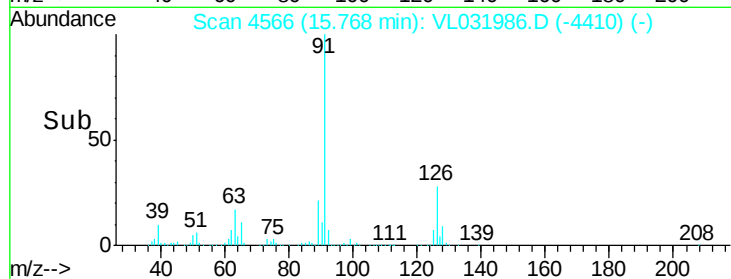
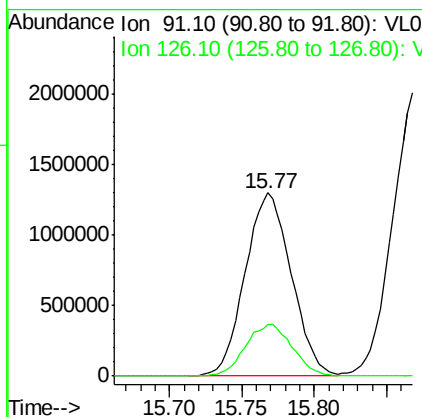
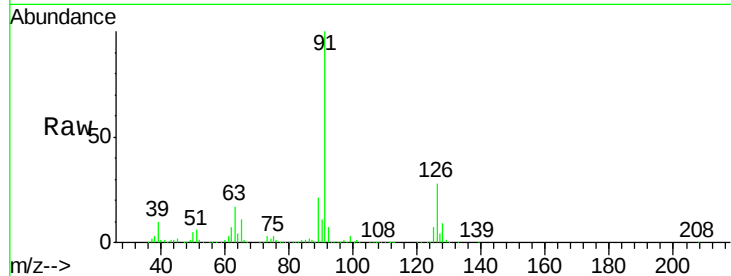
#71
 2-Chlorotoluene
 Concen: 9.62 ppbv
 RT: 15.77 min Scan# 4566
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2867578
 Ion Ratio Lower Upper
 91 100
 126 29.0 11.8 47.2

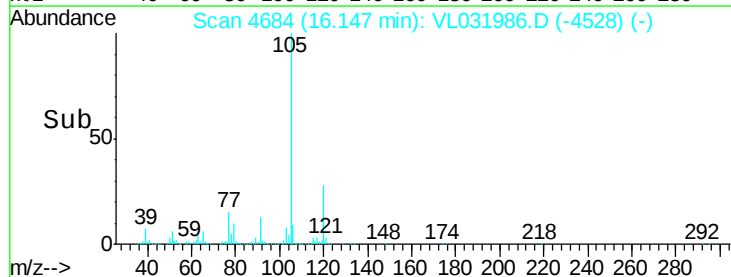
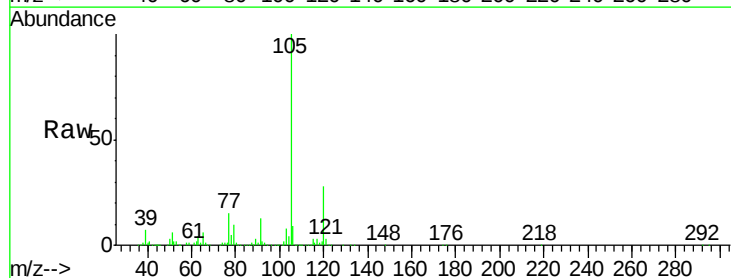
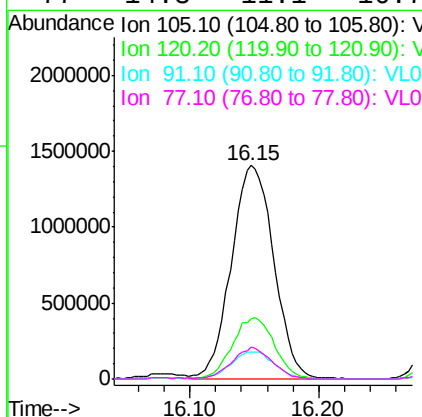
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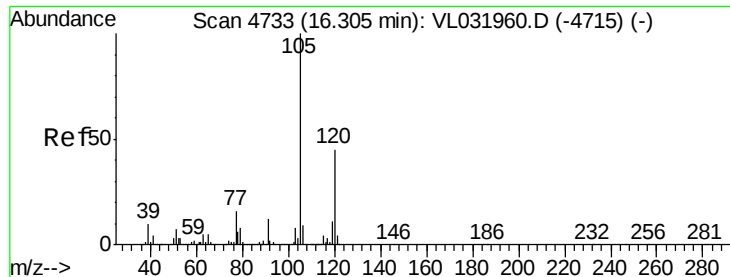
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#72
 4-Ethyltoluene
 Concen: 9.89 ppbv
 RT: 16.15 min Scan# 4684
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Tgt Ion:105 Resp: 3197512
 Ion Ratio Lower Upper
 105 100
 120 28.7 22.6 33.8
 91 13.3 10.5 15.7
 77 14.3 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.64 ppbv

RT: 16.31 min Scan# 4734

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2880793

Ion Ratio Lower Upper

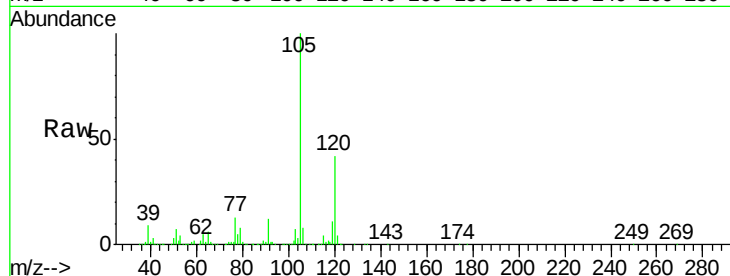
105 100

120 42.4 36.0 54.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

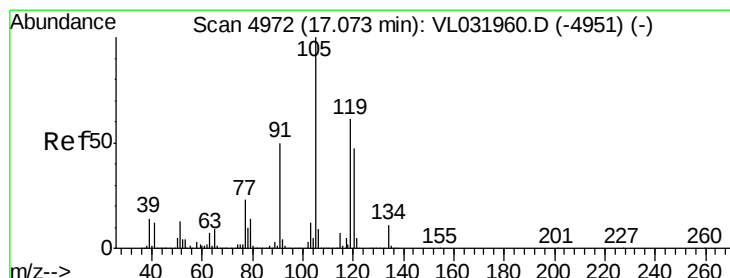
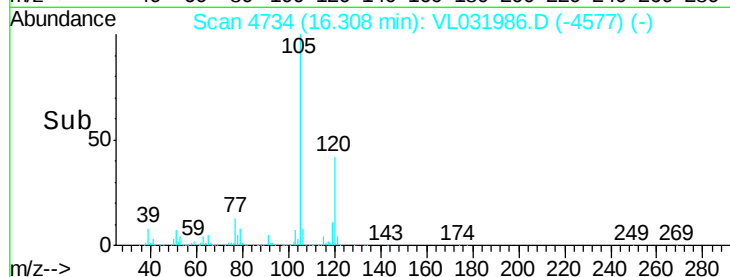
1000000

500000

0

16.20 16.30 16.40

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.25 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Tgt Ion:105 Resp: 3058343

Ion Ratio Lower Upper

105 100

120 46.6 37.8 56.6

91 46.5 40.5 60.7

77 20.5 18.2 27.2

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

2000000

1500000

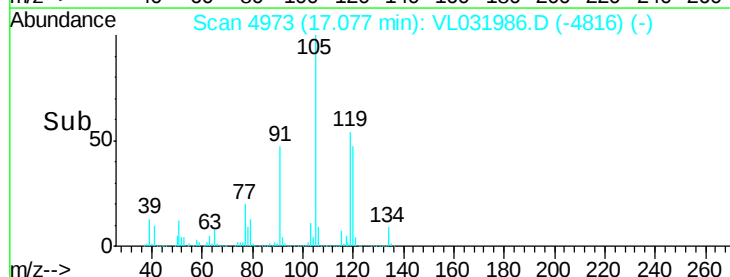
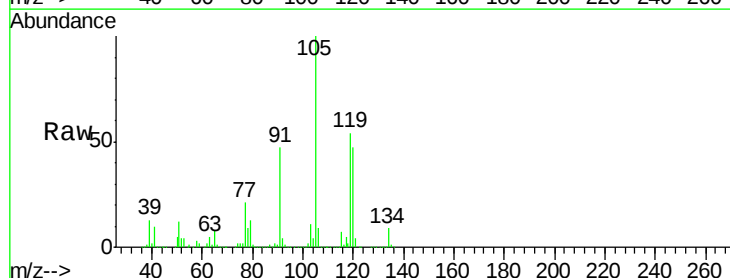
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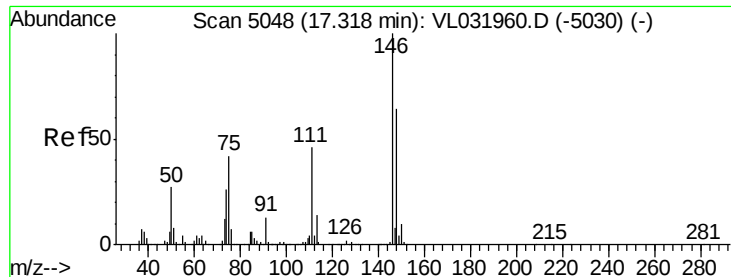
500000

0

17.00 17.10

Time-->





#75

1,3-Dichlorobenzene

Concen: 9.43 ppbv

RT: 17.32 min Scan# 5048

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1924677

Ion Ratio Lower Upper

146 100

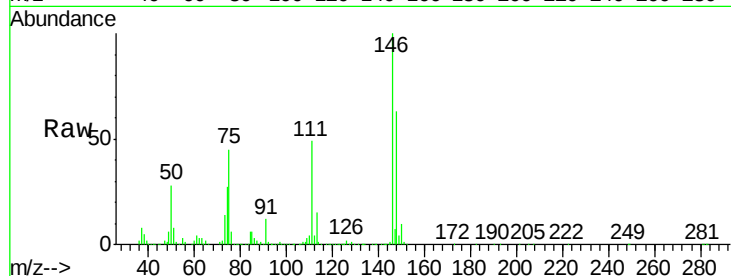
111 46.9 23.5 70.5

148 63.9 32.3 96.8

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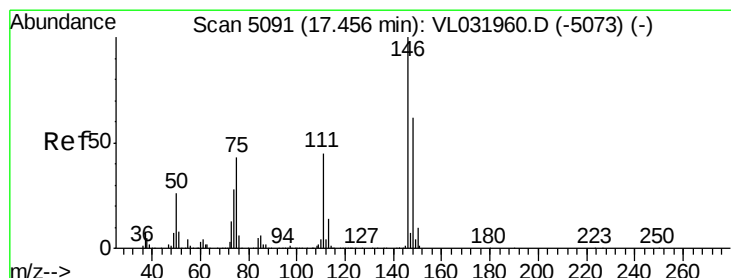
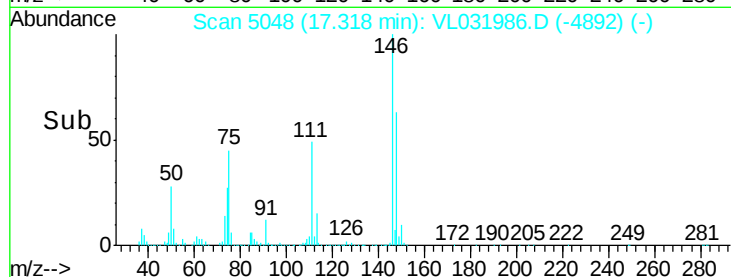
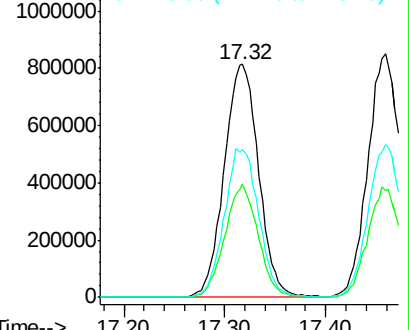
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.73 ppbv

RT: 17.46 min Scan# 5092

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

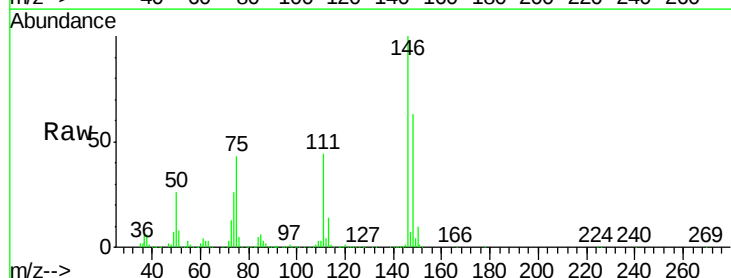
Tgt Ion:146 Resp: 1965172

Ion Ratio Lower Upper

146 100

111 45.4 23.0 69.0

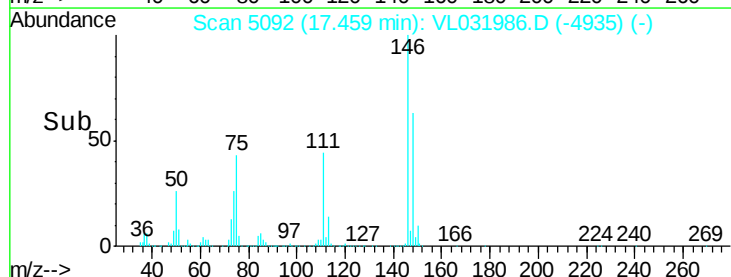
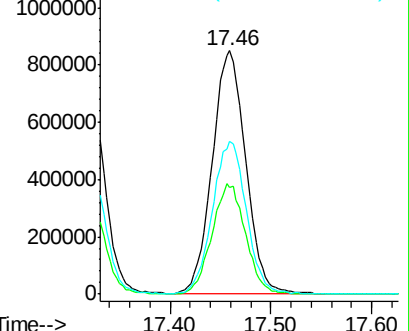
148 63.7 32.4 97.2

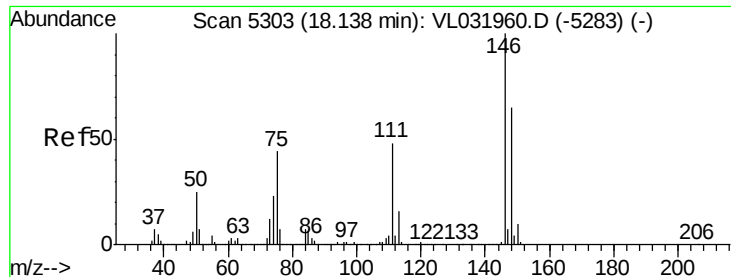


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.31 ppbv

RT: 18.14 min Scan# 5304

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1911640

Ion Ratio Lower Upper

146 100

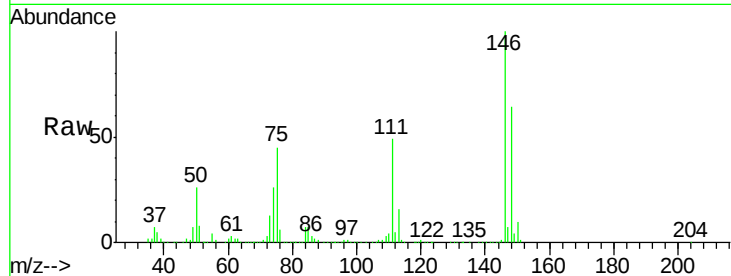
111 48.7 24.2 72.6

148 63.6 32.0 96.2

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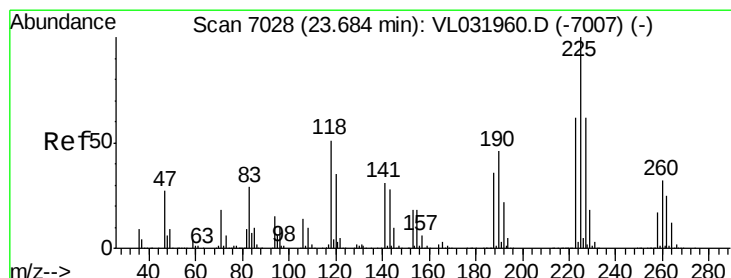
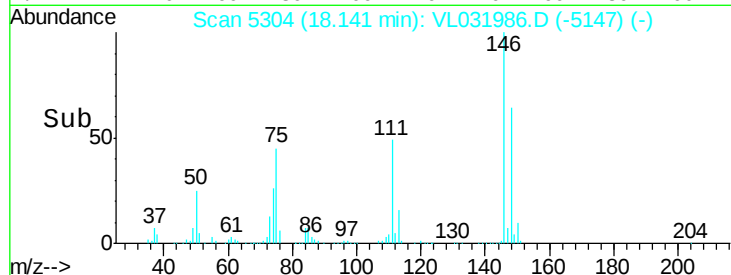
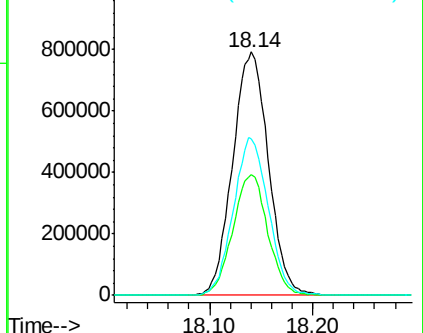
5/4/2018 5:01:22 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 16.02 ppbv

RT: 23.68 min Scan# 7028

Delta R.T. 0.00 min

Lab File: VL031986.D

Acq: 4 May 2018 6:42

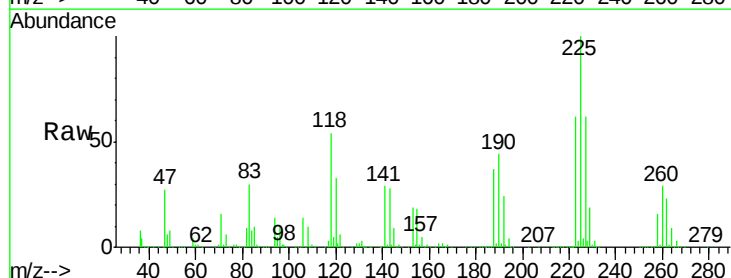
Tgt Ion:225 Resp: 1495063

Ion Ratio Lower Upper

225 100

223 63.6 50.8 76.2

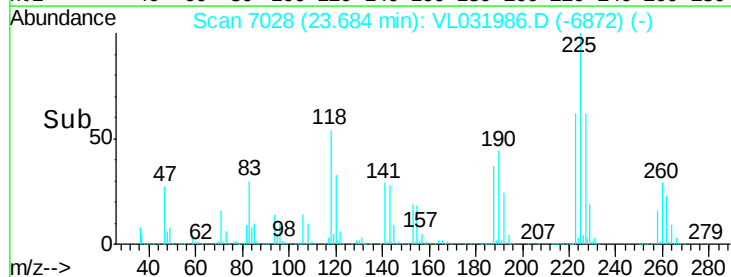
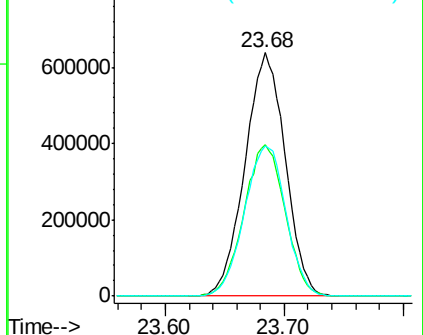
227 63.8 50.9 76.3

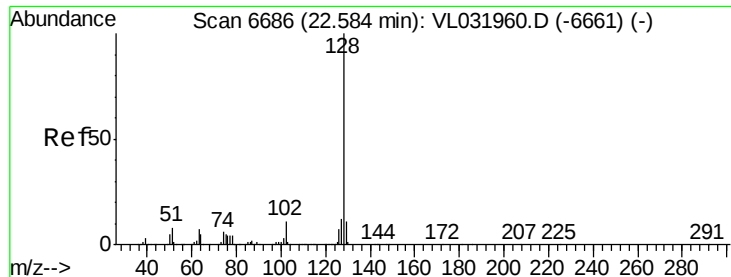


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





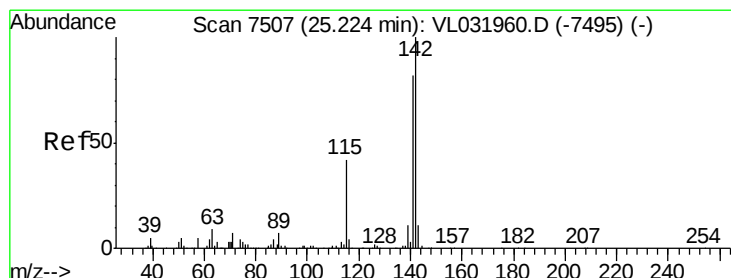
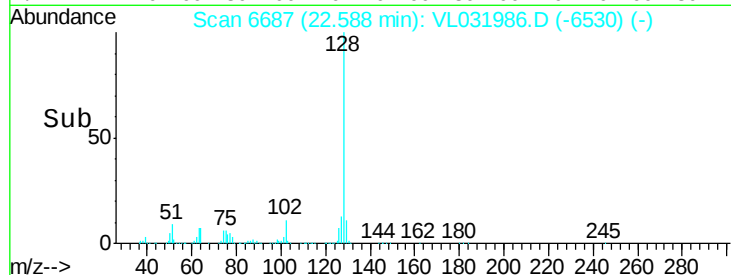
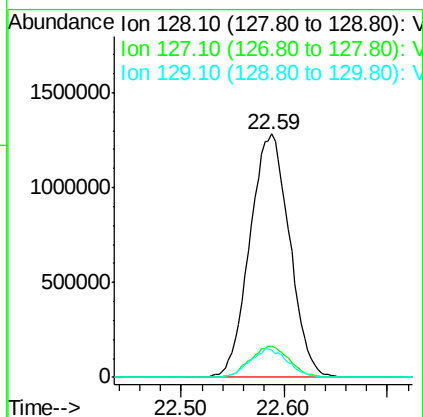
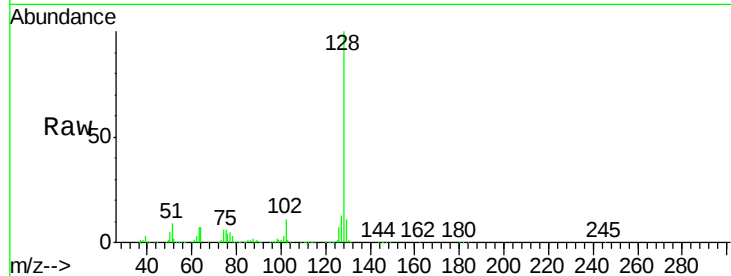
#79
Naphthalene
Concen: 14.85 ppbv
RT: 22.59 min Scan# 6687
Delta R.T. 0.00 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.0	15.0
129	11.1	9.0	13.4

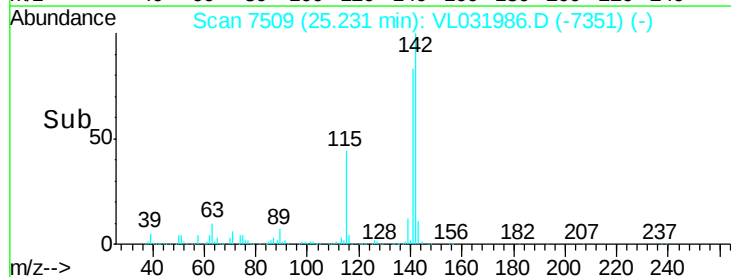
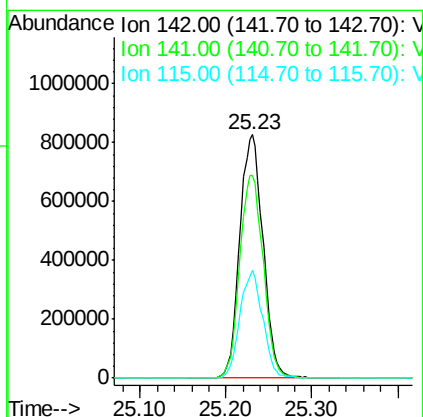
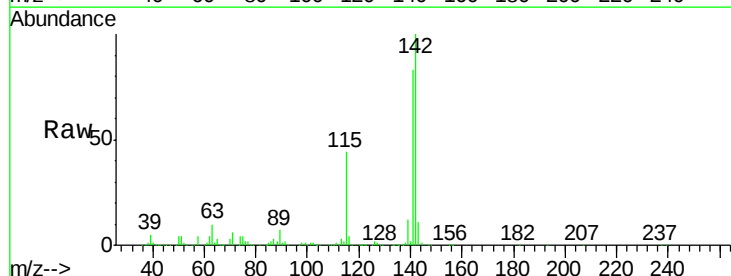
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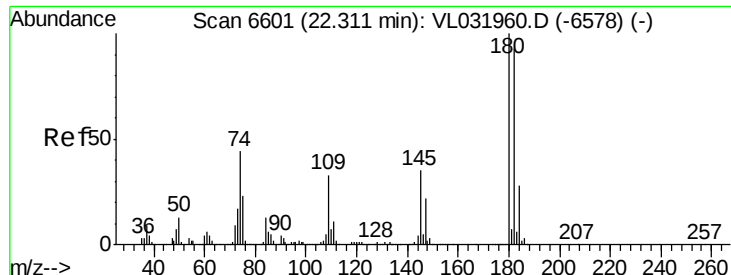
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#80
Naphthalene, 2-methyl-
Concen: 28.31 ppbv
RT: 25.23 min Scan# 7509
Delta R.T. 0.01 min
Lab File: VL031986.D
Acq: 4 May 2018 6:42

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.9	101.9
115	43.6	33.8	50.8





#81
 1,2,4-Trichlorobenzene
 Concen: 13.19 ppbv
 RT: 22.31 min Scan# 6601
 Delta R.T. 0.00 min
 Lab File: VL031986.D
 Acq: 4 May 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.6	114.8
184	30.6	24.0	36.0

Manual Integrations
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