

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\
 Data File : VL032023.D
 Acq On : 1 Jun 2018 11:33
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSV053118

Manual Integrations
 APPROVED

Quant Time: Jun 04 09:39:10 2018

Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0

QLast Update : Fri Jun 01 02:31:35 2018

Response via : Initial Calibration

MMDadoda
 6/4/2018 10:55:00 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1466761	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2762099	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2752500m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.71	95	2104597	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.15	85	1226188	6.95	ppbv	97
3) Chlorodifluoromethane	3.08	51	1228596	8.90	ppbv	98
4) Chloromethane	3.24	50	639657	9.14	ppbv	99
5) Vinyl Chloride	3.37	62	665890	8.57	ppbv	99
6) Bromomethane	3.59	94	465887	8.72	ppbv	99
7) Chloroethane	3.68	64	277916	8.40	ppbv	96
8) Dichlorotetrafluoroethane	3.29	85	1613184	8.39	ppbv	99
9) Propene	3.11	41	482577	10.71	ppbv	99
10) Heptane	8.36	43	1587274	9.93	ppbv	99
11) Trichlorofluoromethane	4.09	101	1954458	7.20	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1619197	8.69	ppbv	99
13) Ethanol	3.73	45	143387	8.14	ppbv	99
14) Bromoethene	3.87	108	557756	8.52	ppbv	97
15) Acetone	3.99	43	1383269	7.82	ppbv	99
16) 1,3-Butadiene	3.44	39	612594	9.49	ppbv	95
17) tert-Butyl alcohol	4.45	59	906360	10.68	ppbv	100
18) 1,1-Dichloroethene	4.44	96	760197	9.39	ppbv	96
19) Isopropyl Alcohol	4.11	45	987253	8.43	ppbv #	99
20) Methylene Chloride	4.50	84	697863	8.68	ppbv	98
21) Allyl Chloride	4.57	41	1212241	9.73	ppbv	100
22) trans-1,2-Dichloroethene	5.06	96	999623	11.48	ppbv	99
23) Vinyl Acetate	5.25	43	2385105	9.96	ppbv #	97
24) 1,1-Dichloroethane	5.19	63	2016133	8.65	ppbv	99
25) Ethyl Acetate	5.87	43	3451539	9.85	ppbv	100
26) Hexane	5.88	57	1614798	9.92	ppbv	98
27) Carbon Disulfide	4.72	76	2096997	9.83	ppbv	100
28) Methyl tert-Butyl Ether	5.21	73	2005065	9.95	ppbv	99
29) Chloroform	5.95	83	2542155	9.26	ppbv	95
30) Cyclohexane	7.36	84	1030639	10.72	ppbv	97
31) cis-1,2-Dichloroethene	5.75	61	1538490	10.50	ppbv	96
32) 1,1,1-Trichloroethane	6.73	97	2026356	9.05	ppbv	99
34) 2-Butanone	5.43	43	2250581	10.36	ppbv	99
35) Carbon Tetrachloride	7.25	117	2055237	8.72	ppbv	98
36) Benzene	7.12	78	2513423	10.36	ppbv	99
37) 1,2-Dichloroethane	6.53	62	2044117	11.67	ppbv	99
38) Trichloroethene	8.08	130	985265	10.58	ppbv	99
39) 1,2-Dichloropropane	7.86	63	890626	9.95	ppbv	95
40) 1,4-Dioxane	8.07	88	382740	9.94	ppbv	99
41) Tetrahydrofuran	6.26	42	1108372	11.88	ppbv	100
42) Bromodichloromethane	8.04	83	2070389	9.47	ppbv	99
43) Methyl Methacrylate	8.26	69	923784	10.93	ppbv	98

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 ICVV053118

Manual Integrations
 APPROVED

Quant Time: Jun 04 09:39:10 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 04
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

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 6/4/2018 10:55:00 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.11	57	4051817	9.75	ppbv	99
45) t-1,3-Dichloropropene	9.54	75	1366658	11.96	ppbv	98
46) cis-1,3-Dichloropropene	8.96	75	1635820	11.27	ppbv	98
47) 1,1,2-Trichloroethane	9.74	97	1064419	9.63	ppbv	98
48) Dibromochloromethane	10.58	129	1820686	9.95	ppbv	99
49) Bromoform	13.33	173	1449218	10.09	ppbv	99
50) 4-Methyl-2-Pentanone	8.99	43	2179888	10.32	ppbv	99
51) 2-Hexanone	10.39	43	2080770	10.98	ppbv #	99
52) Tetrachloroethene	11.50	164	959918	9.96	ppbv	97
53) Toluene	10.07	91	2984059	10.99	ppbv	99
54) 1,2-Dibromoethane	10.89	107	1648098	10.19	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.41	131	1234888	9.30	ppbv	95
57) Chlorobenzene	12.43	112	2335282	9.29	ppbv	97
58) Ethyl Benzene	12.99	91	4186385	10.82	ppbv	100
59) m/p-Xylene	13.28	91	6860681m	20.22	ppbv	
60) o-Xylene	13.98	91	3476511	10.22	ppbv	99
61) Styrene	13.82	104	853277	12.97	ppbv	99
62) Isopropylbenzene	14.95	105	4353185	10.03	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.97	83	2287998	8.68	ppbv	99
64) n-propylbenzene	15.85	120	1095457	10.11	ppbv	97
65) tert-Butylbenzene	17.04	119	3714504	9.79	ppbv	100
66) Benzyl Chloride	17.29	91	392688	9.32	ppbv	99
67) sec-Butylbenzene	17.58	105	5248554	9.54	ppbv	100
69) p-Isopropyltoluene	17.94	119	4247793	9.96	ppbv	99
70) n-Butylbenzene	18.84	91	4324686	9.85	ppbv	100
71) 2-Chlorotoluene	15.75	91	3291261	10.32	ppbv	99
72) 4-Ethyltoluene	16.13	105	3604019	10.65	ppbv	99
73) 1,3,5-Trimethylbenzene	16.28	105	3199992	10.24	ppbv	99
74) 1,2,4-Trimethylbenzene	17.05	105	3399839	9.66	ppbv	98
75) 1,3-Dichlorobenzene	17.30	146	2151720	8.90	ppbv	100
76) 1,4-Dichlorobenzene	17.44	146	2169321	9.41	ppbv	100
77) 1,2-Dichlorobenzene	18.12	146	2076549	9.07	ppbv	99
78) Hexachloro-1,3-Butadiene	23.67	225	1173692	12.93	ppbv	99
79) Naphthalene	22.56	128	2487548	12.48	ppbv	99
80) Naphthalene, 2-methyl-	25.21	142	1420811	28.89	ppbv	99
81) 1,2,4-Trichlorobenzene	22.29	180	1316293	11.25	ppbv	98

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

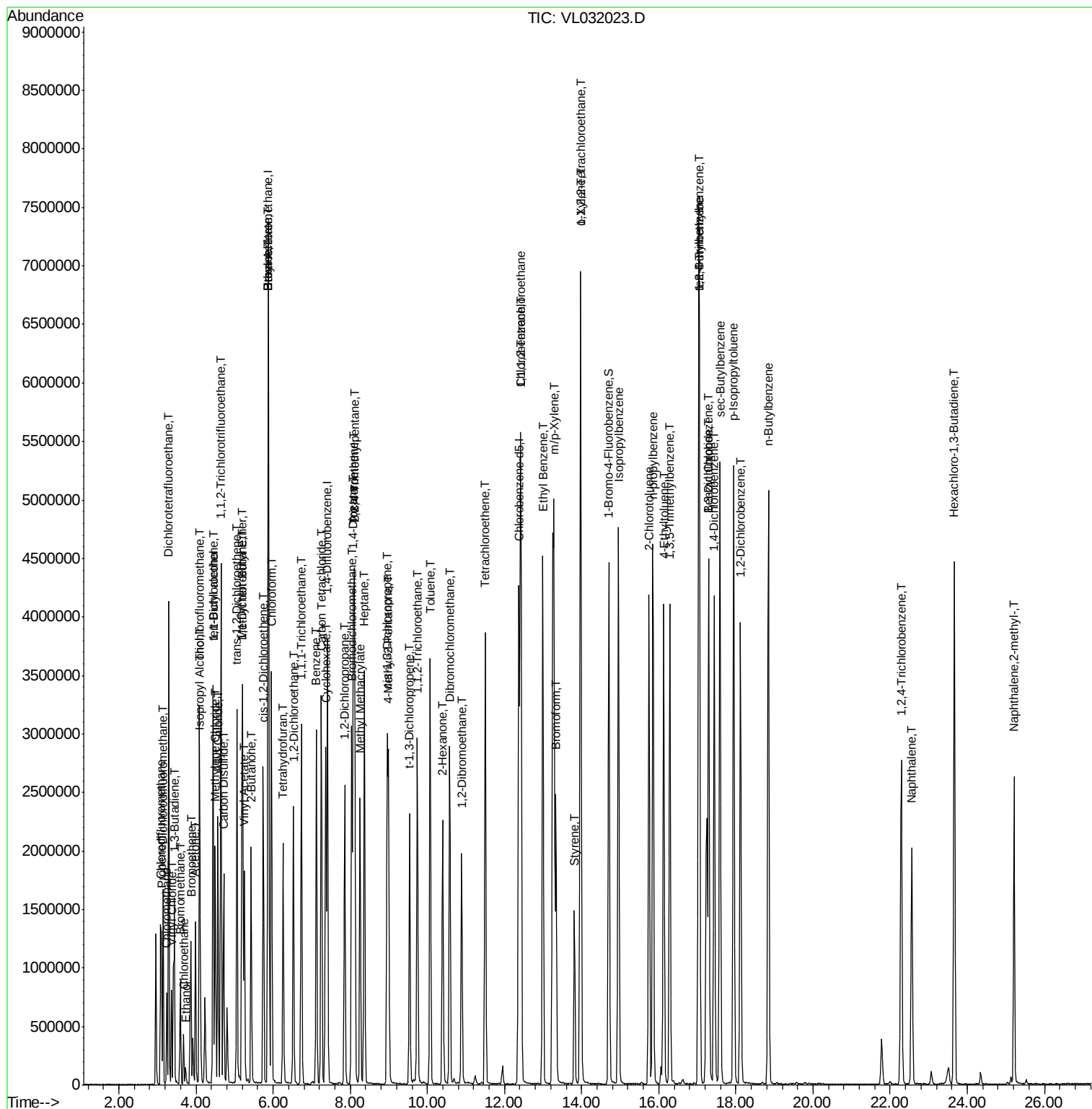
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Misc      : 400ml/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
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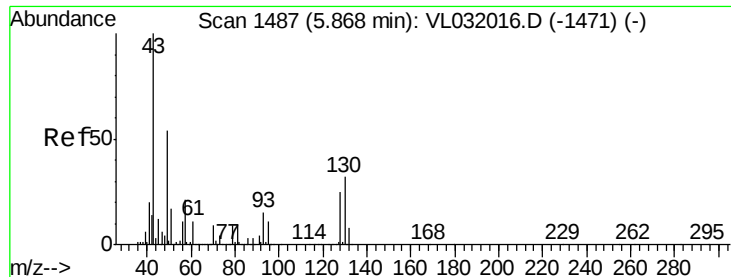
Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Manual Integrations APPROVED

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6/4/2018 10:55:00 AM

Quant Time: Jun 04 09:39:10 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun
QLast Update : Fri Jun 01 02:31:35 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.87 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 49 Resp: 1466761

Ion Ratio Lower Upper

49 100

128 48.4 24.1 72.3

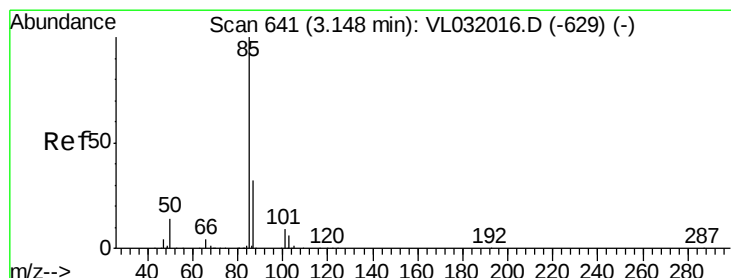
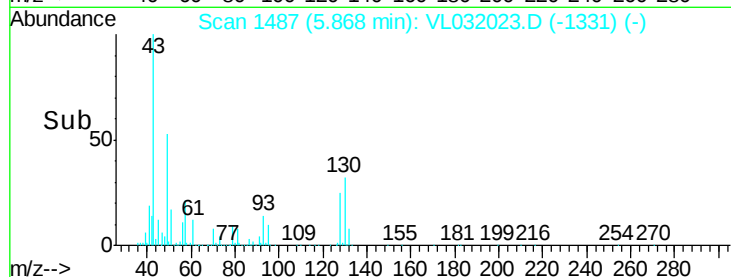
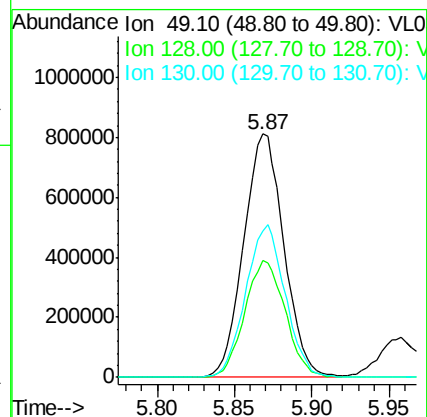
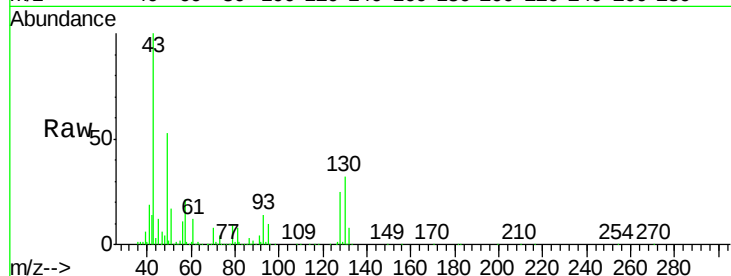
130 61.8 30.9 92.8

Manual Integrations

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6/4/2018 10:55:00 AM



#2

Dichlorodifluoromethane

Concen: 6.95 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.00 min

Lab File: VL032023.D

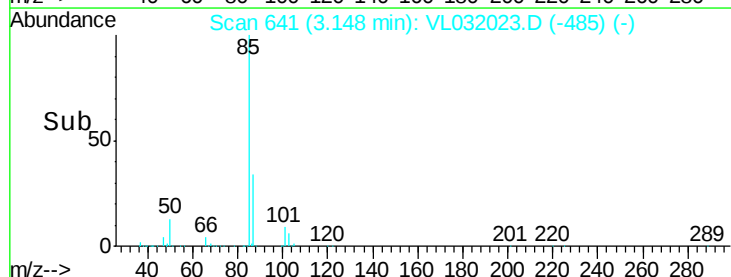
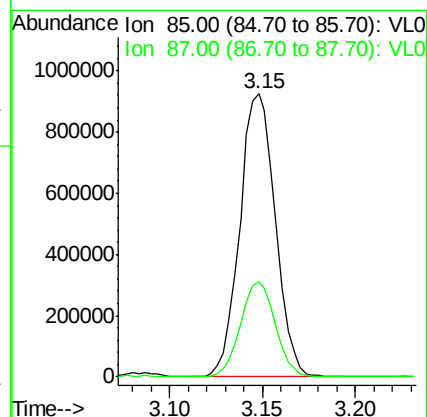
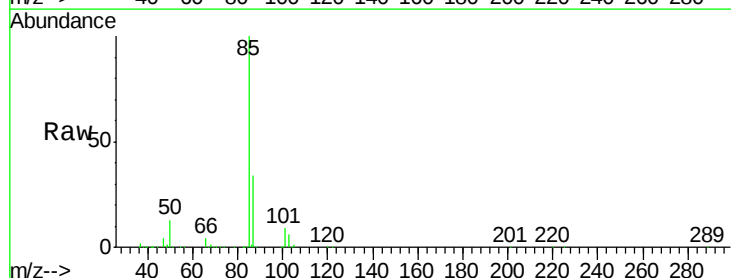
Acq: 1 Jun 2018 11:33

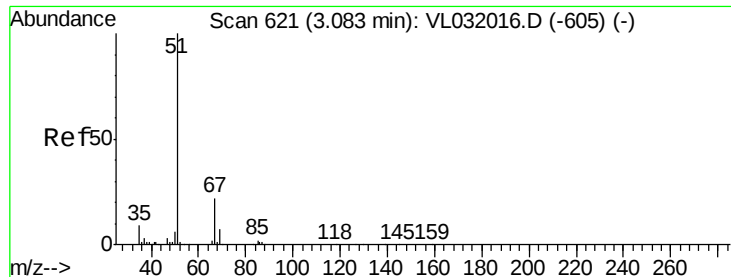
Tgt Ion: 85 Resp: 1226188

Ion Ratio Lower Upper

85 100

87 33.6 25.5 38.3





#3

Chlorodifluoromethane

Concen: 8.90 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 51 Resp: 1228596

Ion Ratio Lower Upper

51 100

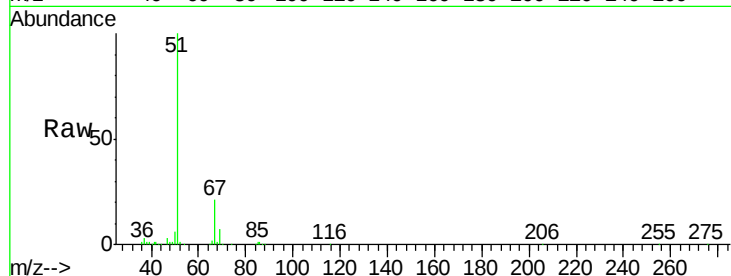
67 20.4 17.2 25.8

Manual Integrations

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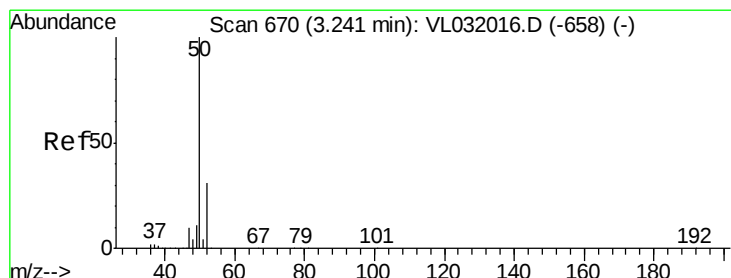
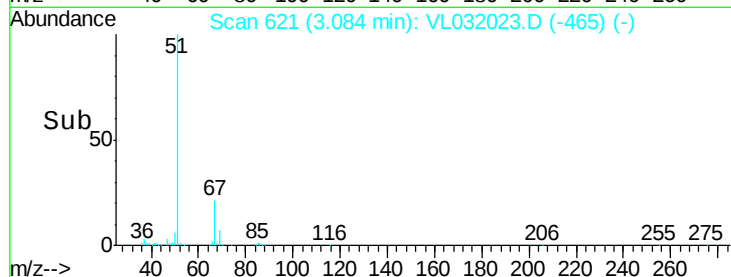
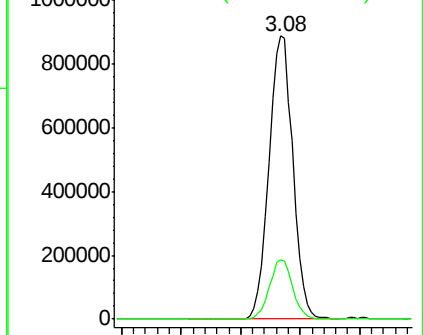
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6/4/2018 10:55:00 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.14 ppbv

RT: 3.24 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL032023.D

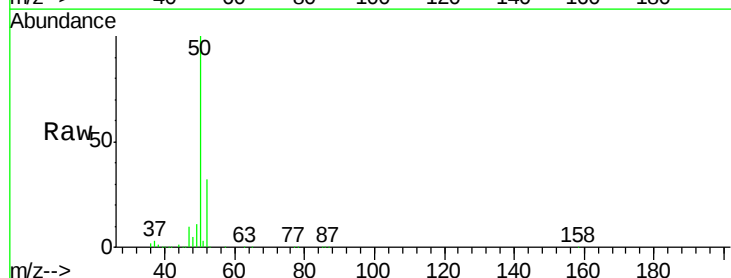
Acq: 1 Jun 2018 11:33

Tgt Ion: 50 Resp: 639657

Ion Ratio Lower Upper

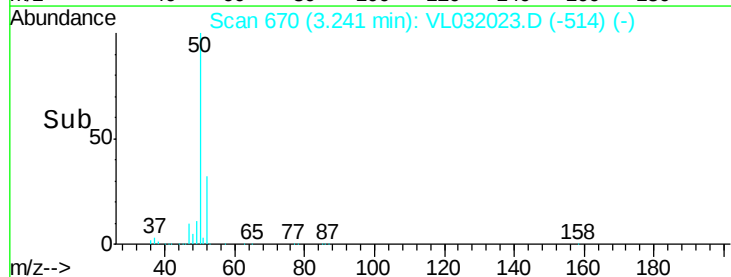
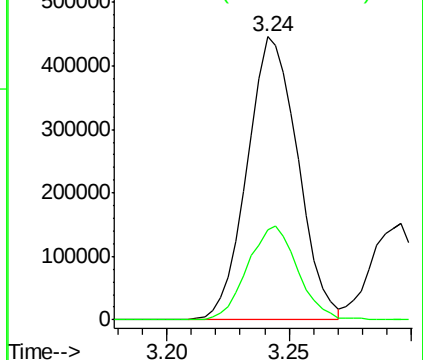
50 100

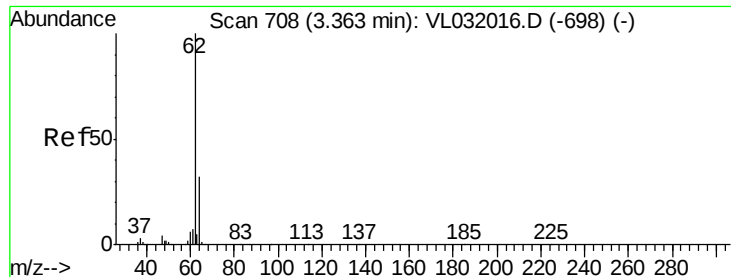
52 31.8 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.57 ppbv

RT: 3.37 min Scan# 709

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 62 Resp: 665890

Ion Ratio Lower Upper

62 100

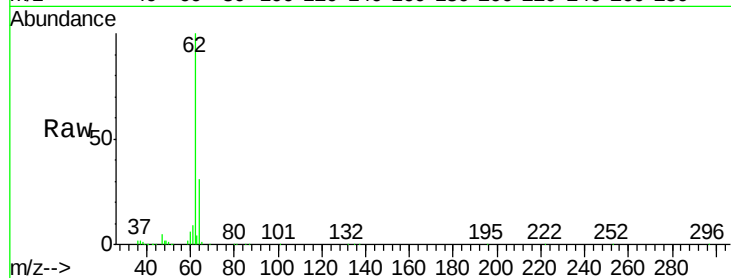
64 30.9 25.2 37.8

Manual Integrations

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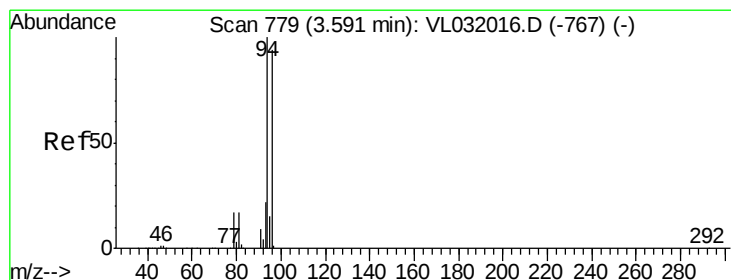
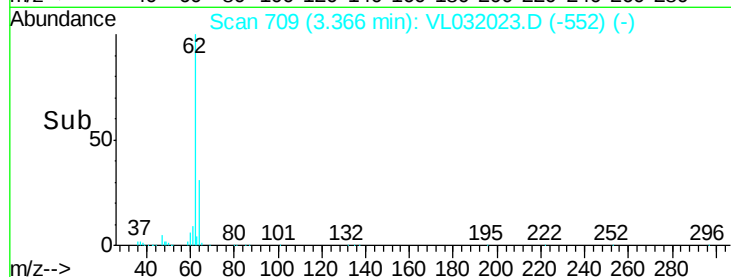
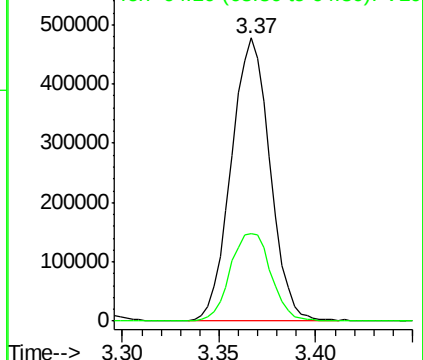
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.72 ppbv

RT: 3.59 min Scan# 779

Delta R.T. 0.00 min

Lab File: VL032023.D

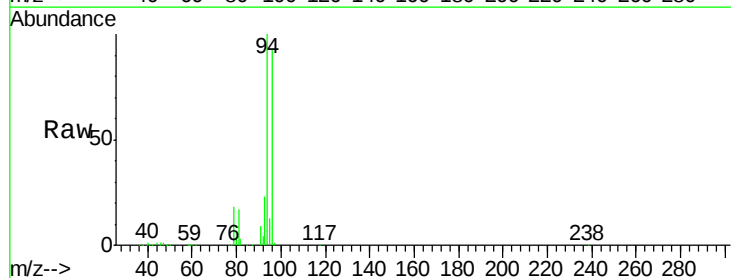
Acq: 1 Jun 2018 11:33

Tgt Ion: 94 Resp: 465887

Ion Ratio Lower Upper

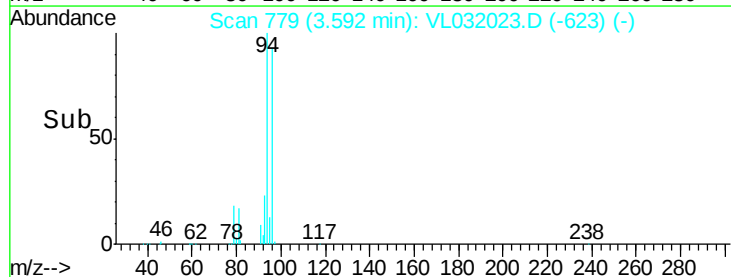
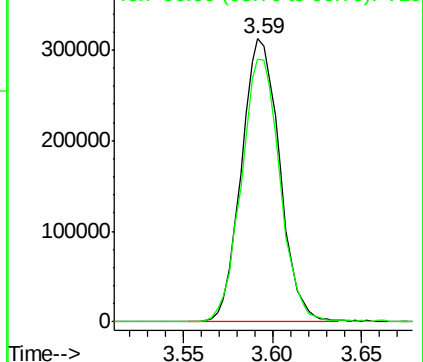
94 100

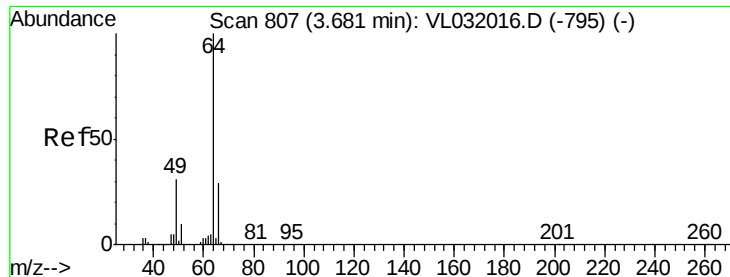
96 93.0 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.40 ppbv

RT: 3.68 min Scan# 807

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 64 Resp: 277916

Ion Ratio Lower Upper

64 100

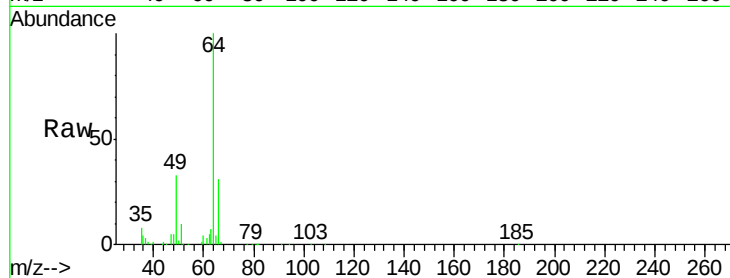
66 31.2 23.4 35.2

Manual Integrations

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6/4/2018 10:55:00 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.68

200000

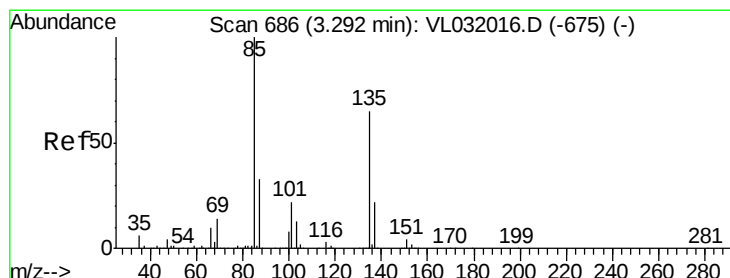
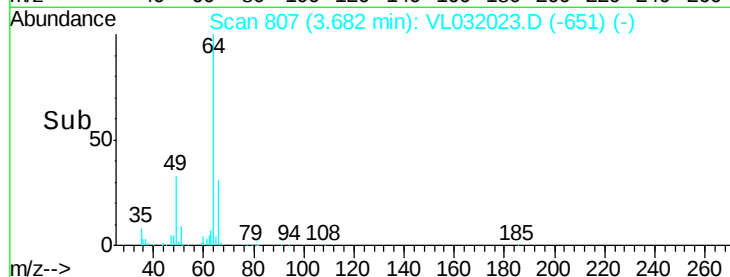
150000

100000

50000

0

Time--> 3.60 3.65 3.70 3.75



#8

Dichlorotetrafluoroethane

Concen: 8.39 ppbv

RT: 3.29 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL032023.D

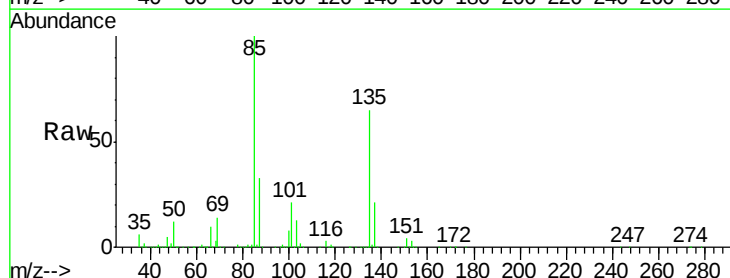
Acq: 1 Jun 2018 11:33

Tgt Ion: 85 Resp: 1613184

Ion Ratio Lower Upper

85 100

135 66.5 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

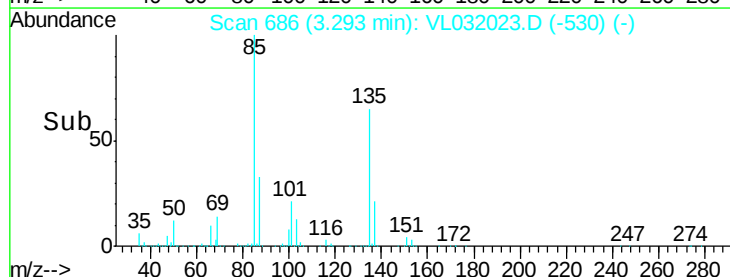
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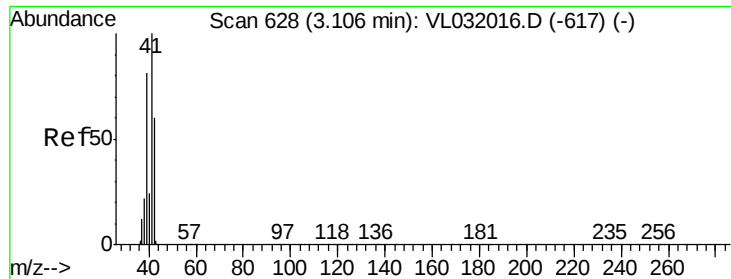
1000000

500000

0

Time--> 3.25 3.30 3.35





#9

Propene

Concen: 10.71 ppbv

RT: 3.11 min Scan# 628

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 41 Resp: 482577

Ion Ratio Lower Upper

41 100

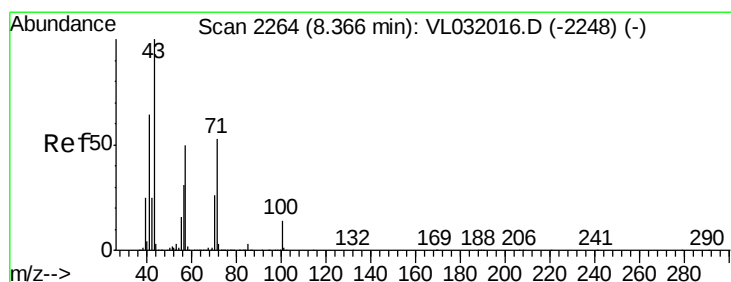
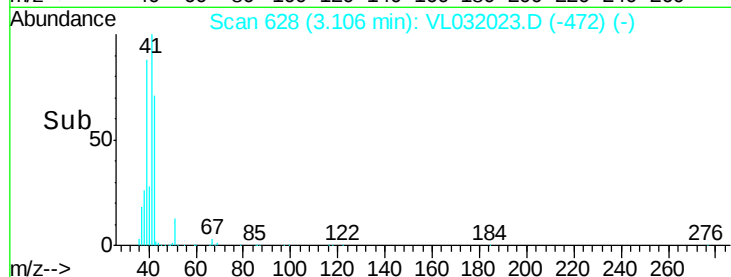
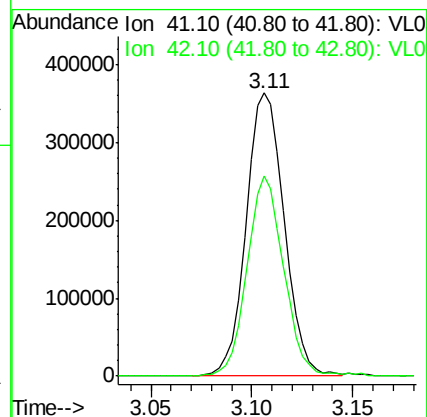
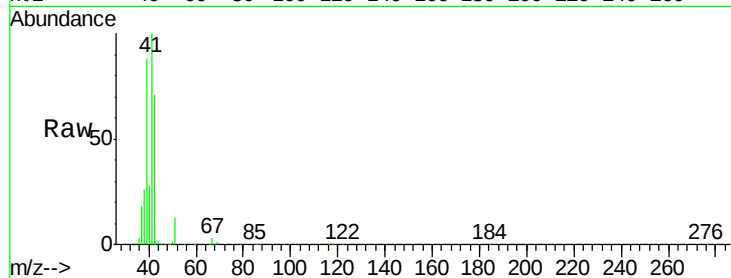
42 68.6 54.4 81.6

Manual Integrations

APPROVED

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6/4/2018 10:55:00 AM



#10

Heptane

Concen: 9.93 ppbv

RT: 8.36 min Scan# 2263

Delta R.T. -0.00 min

Lab File: VL032023.D

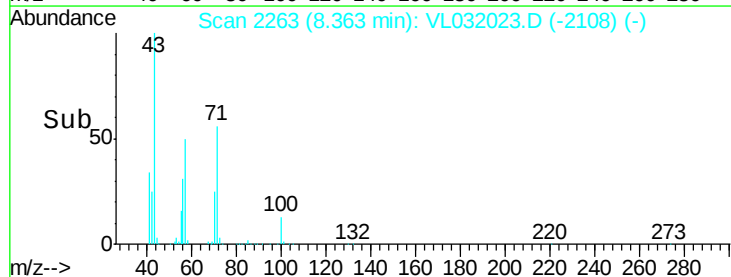
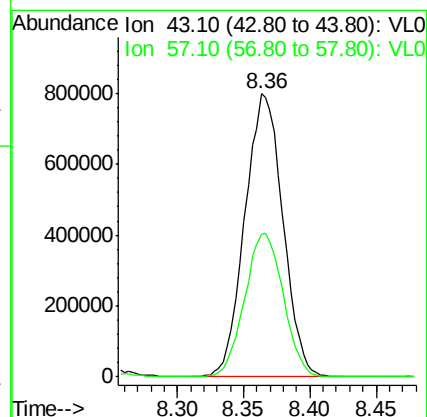
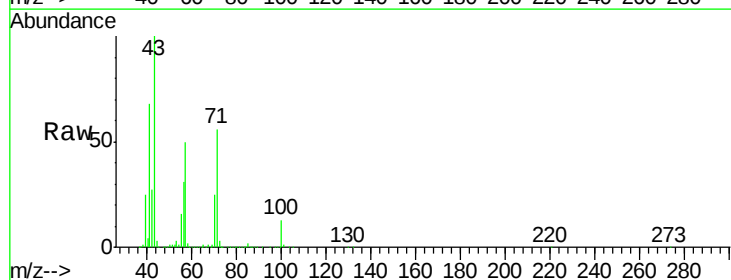
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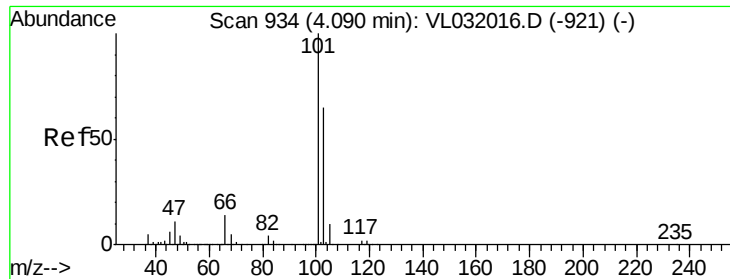
Tgt Ion: 43 Resp: 1587274

Ion Ratio Lower Upper

43 100

57 51.7 41.7 62.5





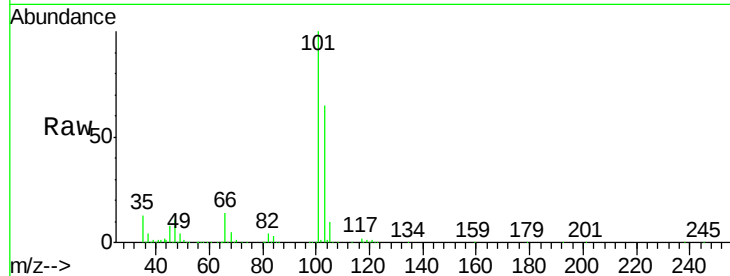
#11
 Trichlorofluoromethane
 Concen: 7.20 ppbv
 RT: 4.09 min Scan# 934
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

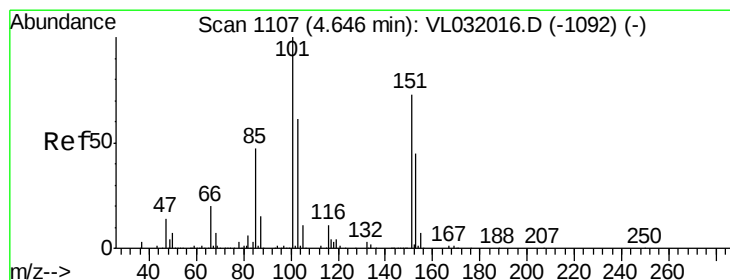
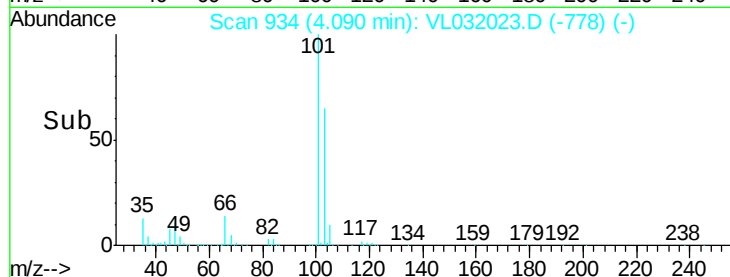
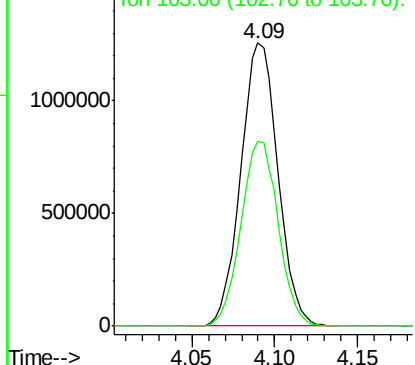
Tot Ion:101 Resp: 1954458
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.0 78.0

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 6/4/2018 10:55:00 AM

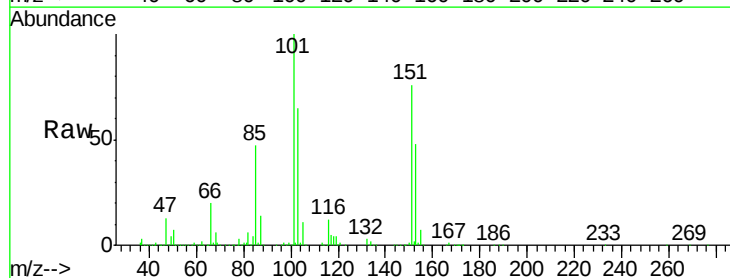


Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 103.00 (102.70 to 103.70): V

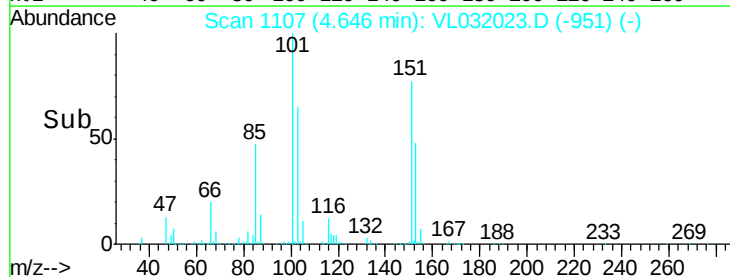
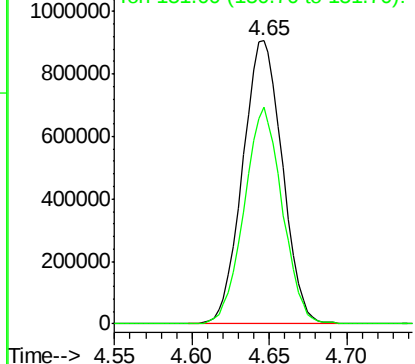


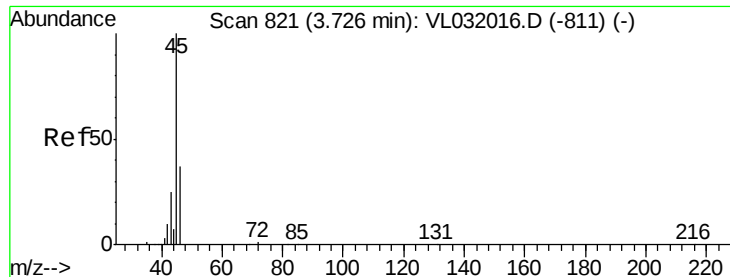
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.69 ppbv
 RT: 4.65 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion:101 Resp: 1619197
 Ion Ratio Lower Upper
 101 100
 151 73.5 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 151.00 (150.70 to 151.70): V





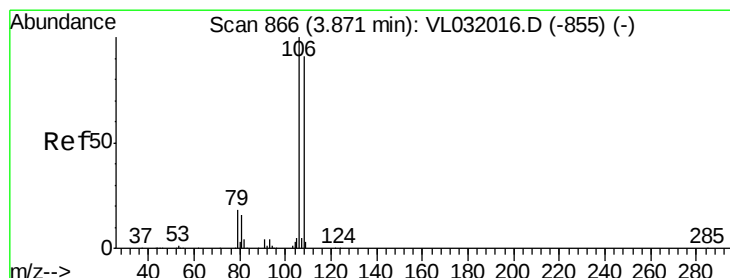
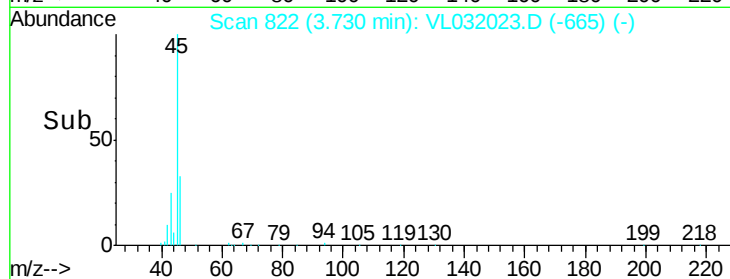
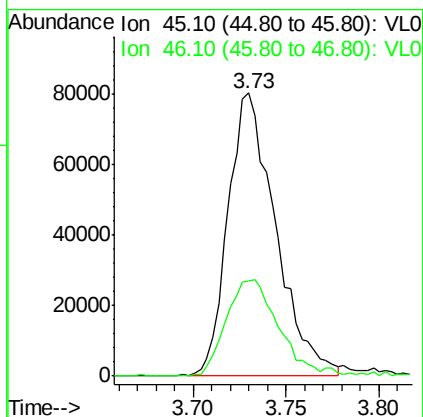
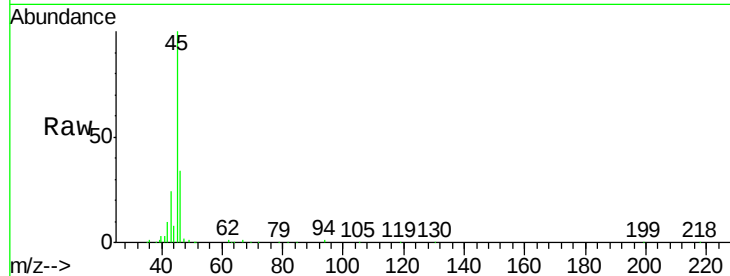
#13
Ethanol
Concen: 8.14 ppbv
RT: 3.73 min Scan# 822
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion	45	46	Ratio	Lower	Upper
143387	100	38.0		14.9	59.5

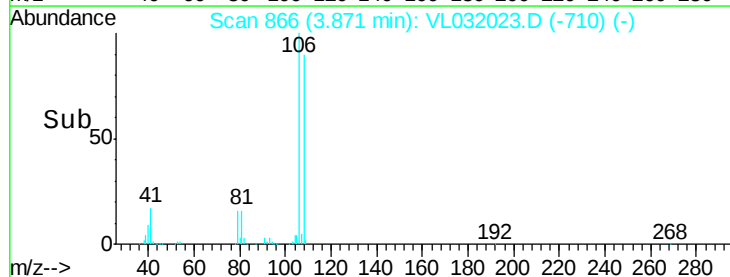
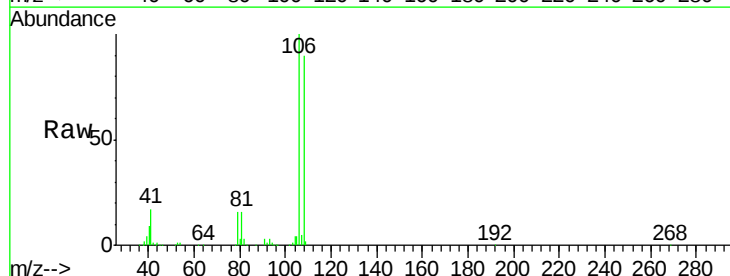
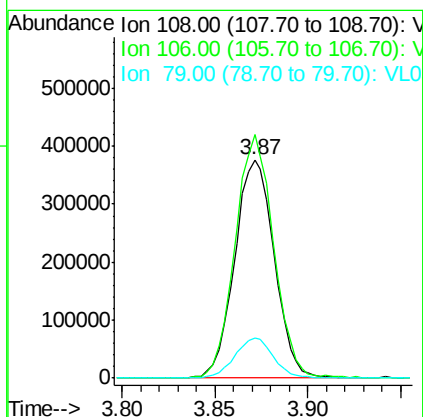
Manual Integrations
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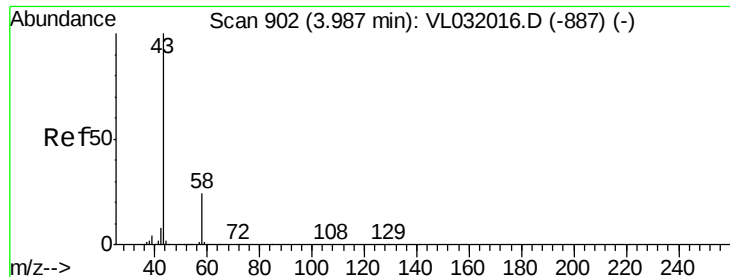
MMDadoda
6/4/2018 10:55:00 AM



#14
Bromoethene
Concen: 8.52 ppbv
RT: 3.87 min Scan# 866
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion	108	106	79	Ratio	Lower	Upper
557756	100	109.1	17.9		85.1	127.7
					15.2	22.8





#15

Acetone

Concen: 7.82 ppbv

RT: 3.99 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 43 Resp: 1383269

Ion Ratio Lower Upper

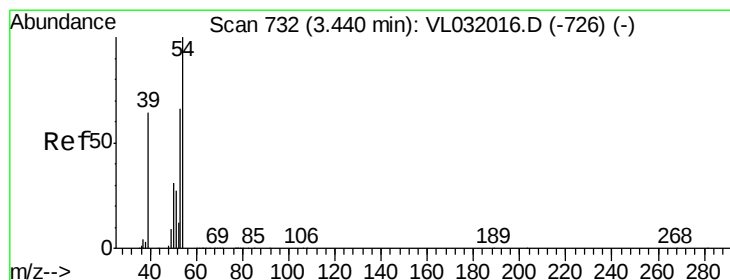
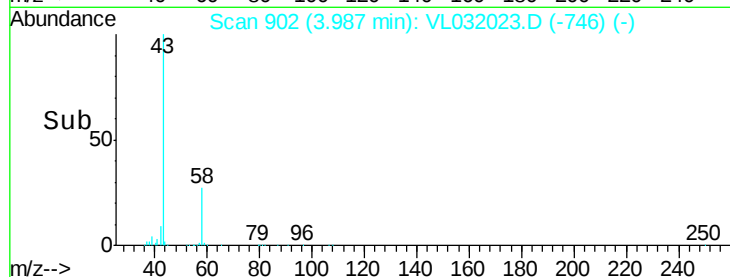
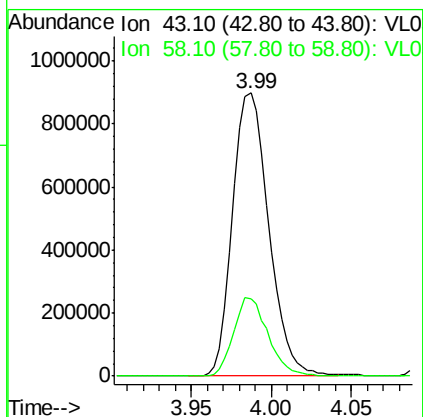
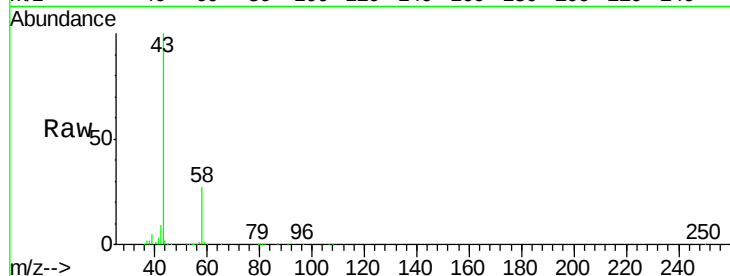
43 100

58 26.3 20.7 31.1

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6/4/2018 10:55:00 AM



#16

1,3-Butadiene

Concen: 9.49 ppbv

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VL032023.D

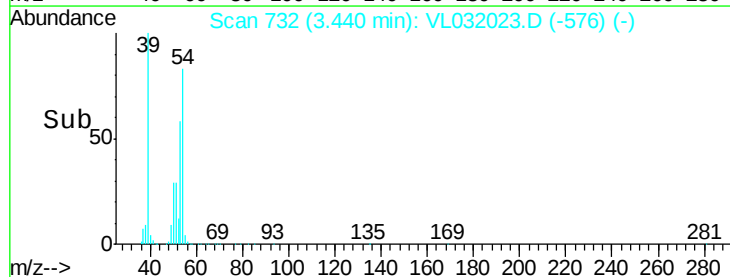
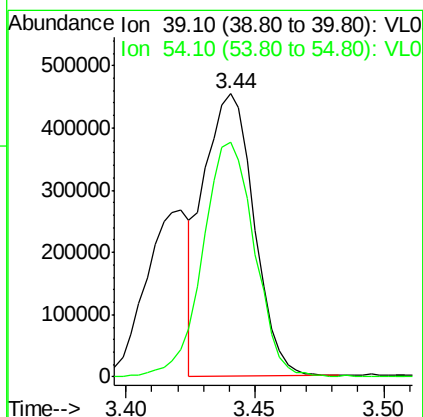
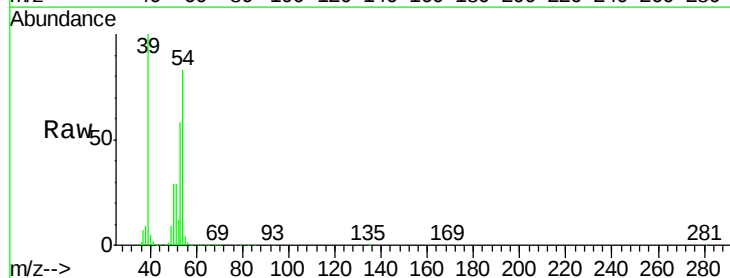
Acq: 1 Jun 2018 11:33

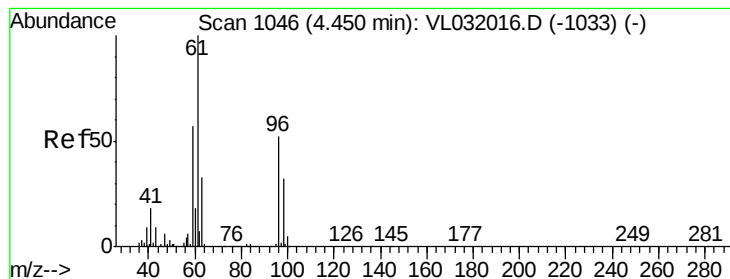
Tgt Ion: 39 Resp: 612594

Ion Ratio Lower Upper

39 100

54 86.6 65.7 98.5





#17

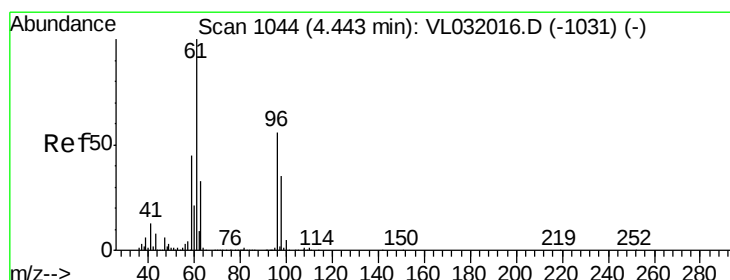
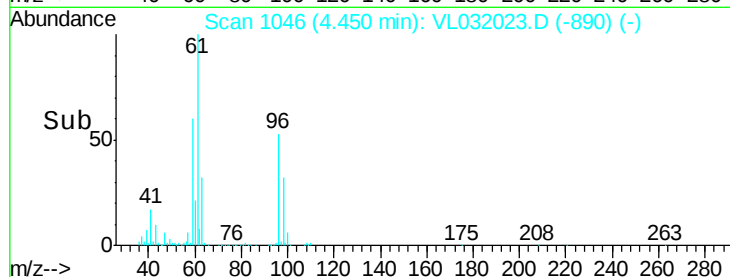
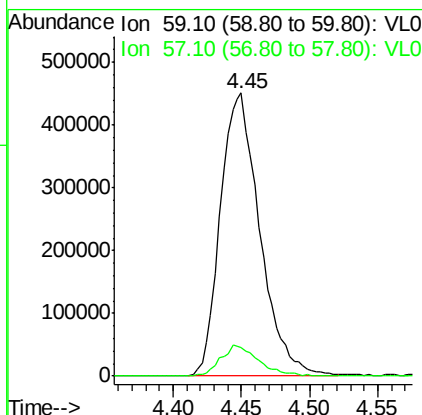
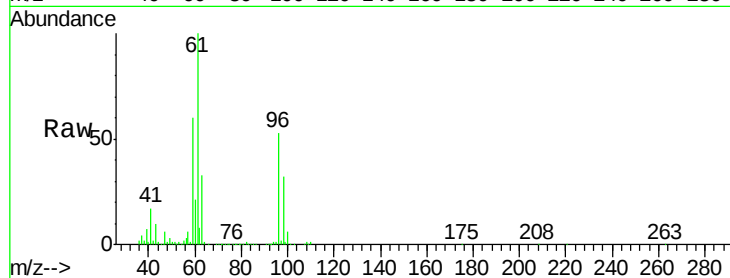
tert-Butyl alcohol
Concen: 10.68 ppbv
RT: 4.45 min Scan# 1046
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion	59	Ratio	100	Resp	906360
Ion	59	100		Lower	Upper
	57	10.6		8.3	12.5

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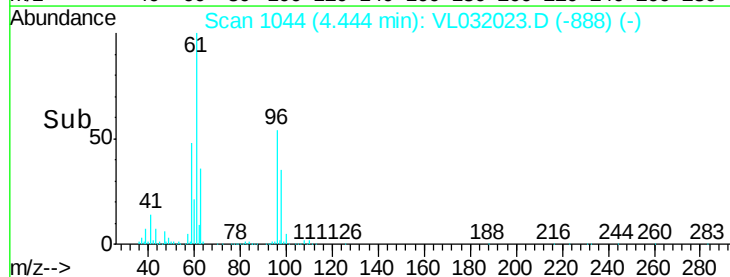
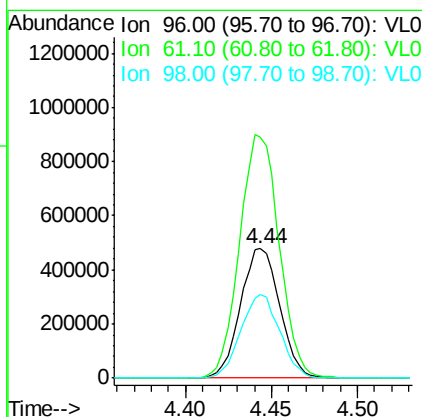
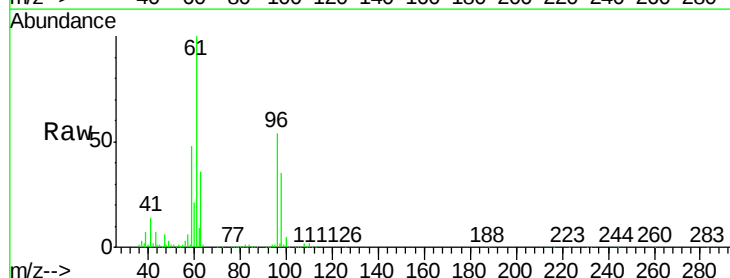
MMDadoda
6/4/2018 10:55:00 AM

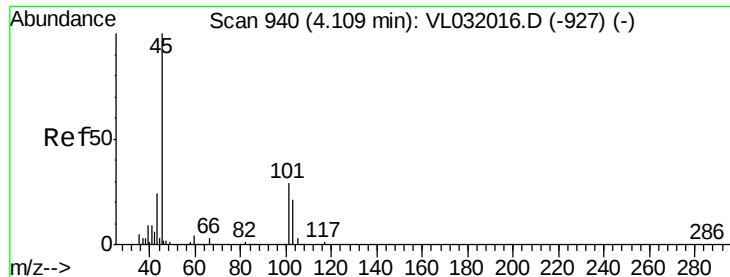


#18

1,1-Dichloroethene
Concen: 9.39 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion	96	Ratio	100	Resp	760197
Ion	96	100		Lower	Upper
	61	185.6		143.5	215.3
	98	64.2		50.0	75.0





#19

Isopropyl Alcohol

Concen: 8.43 ppbv

RT: 4.11 min Scan# 940

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 45 Resp: 987253

Ion Ratio Lower Upper

45 100

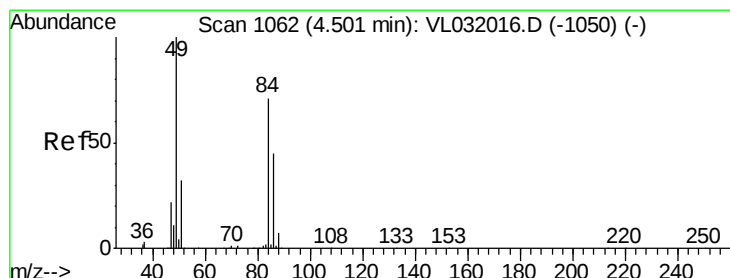
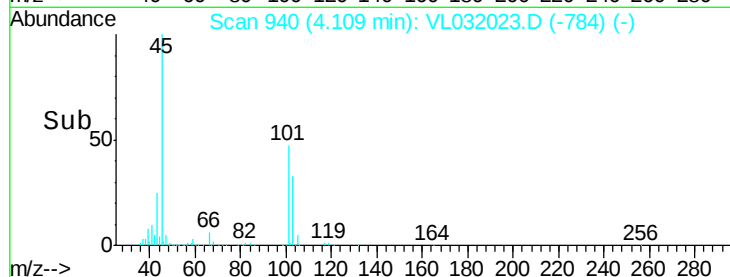
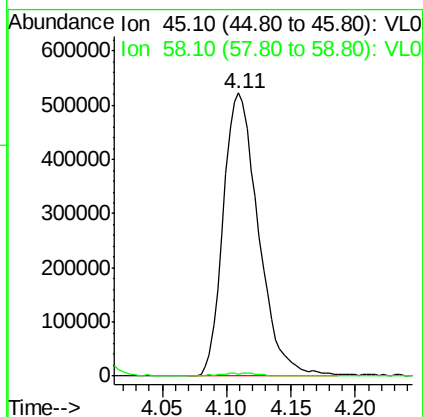
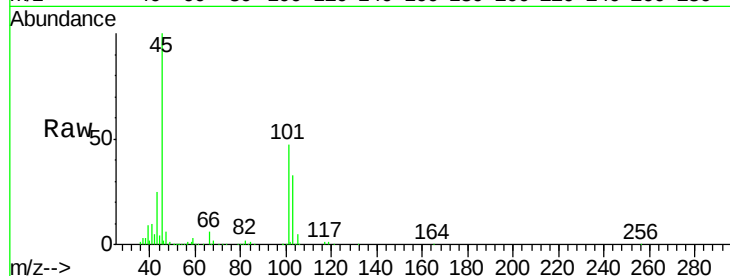
58 1.5 1.5 2.3#

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6/4/2018 10:55:00 AM



#20

Methylene Chloride

Concen: 8.68 ppbv

RT: 4.50 min Scan# 1062

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Tgt Ion: 84 Resp: 697863

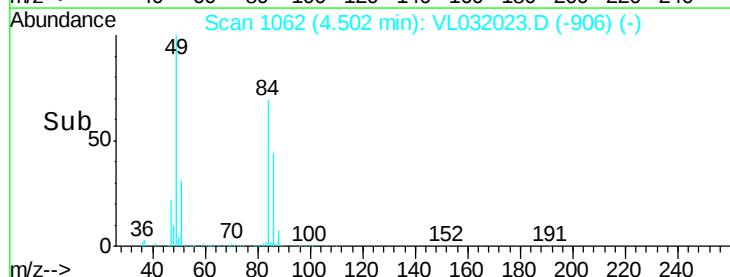
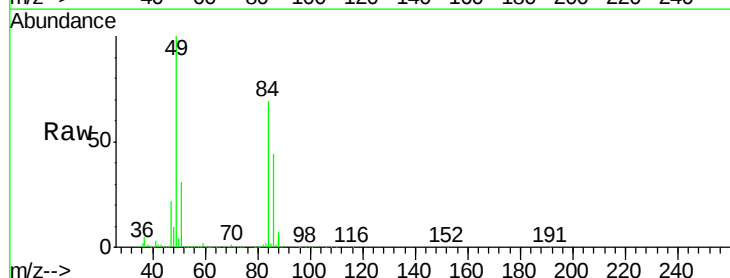
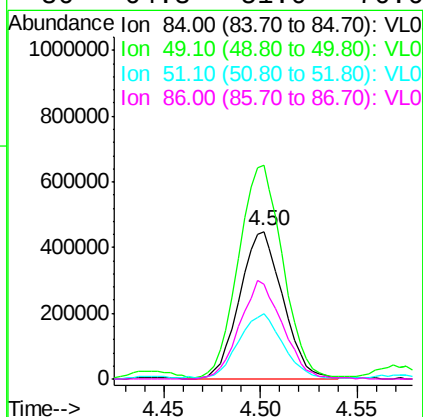
Ion Ratio Lower Upper

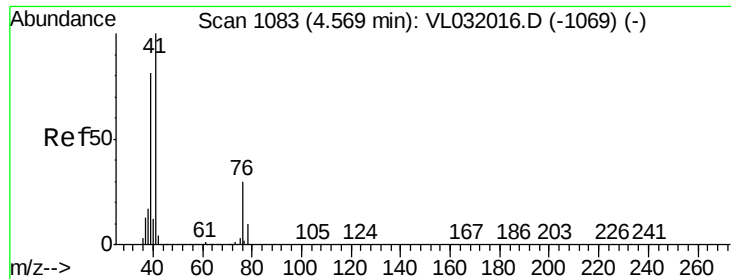
84 100

49 144.0 113.0 169.4

51 43.4 36.4 54.6

86 64.3 51.0 76.6





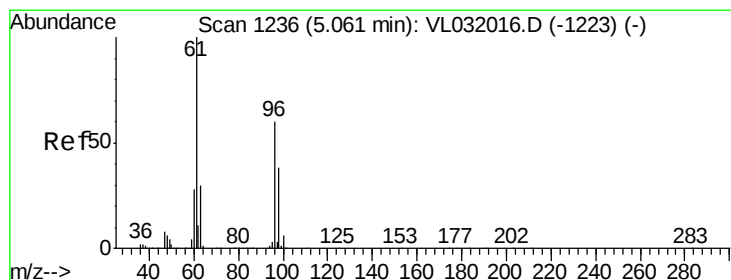
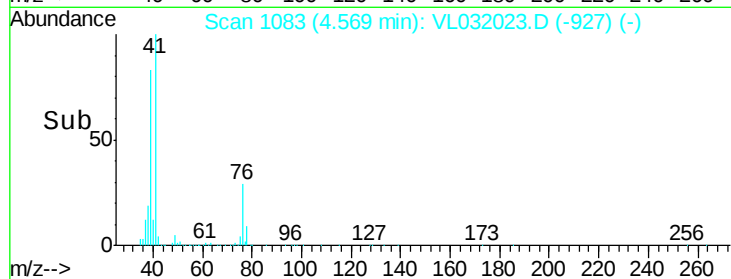
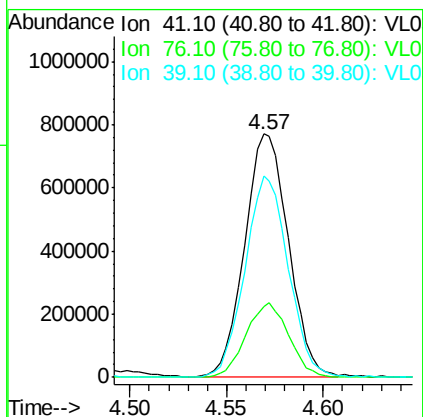
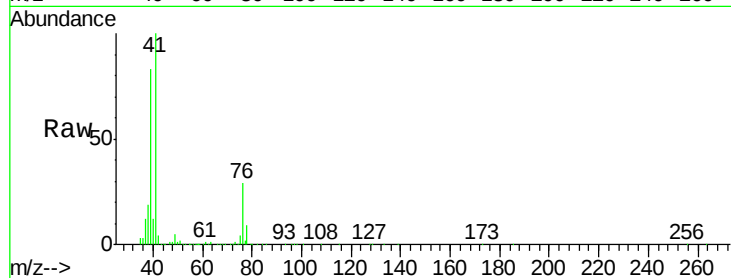
#21
Allvl Chloride
Concen: 9.73 ppbv
RT: 4.57 min Scan# 1083
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.1	23.9	35.9
39	82.2	65.9	98.9

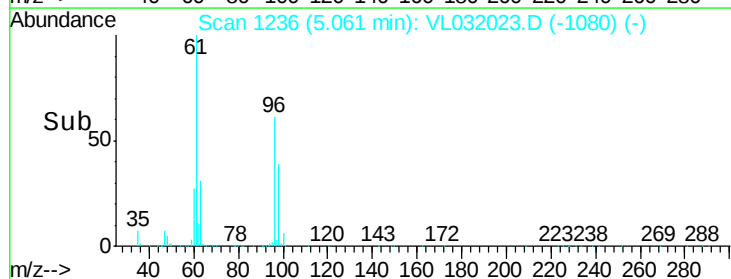
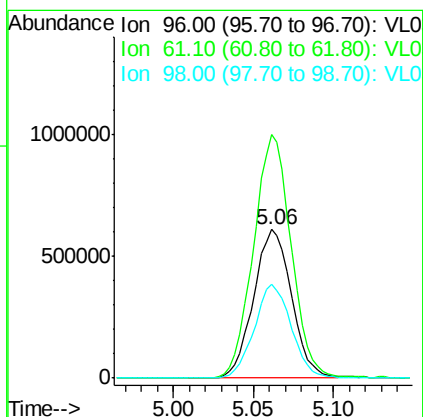
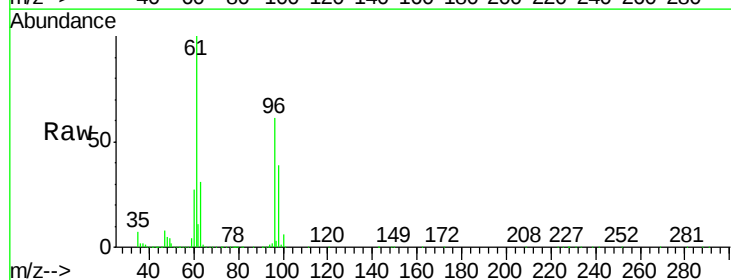
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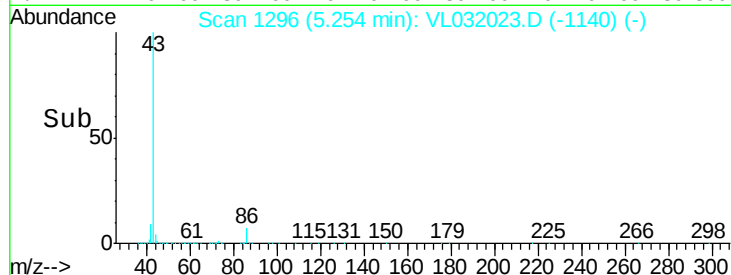
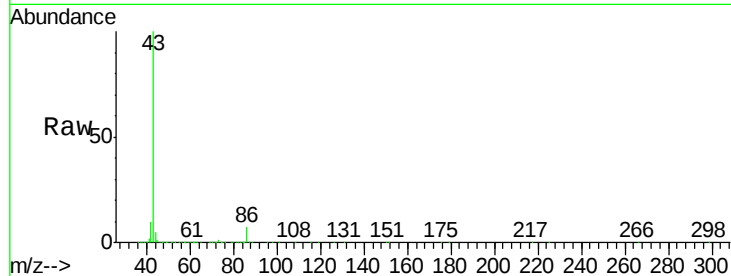
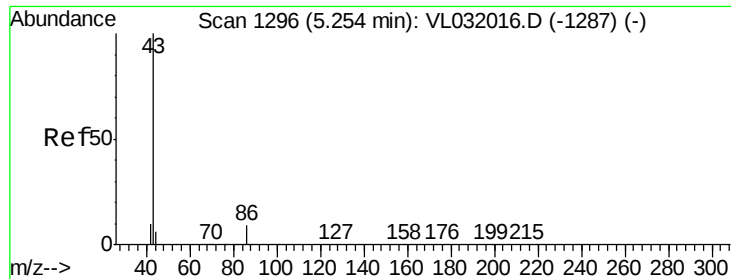
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6/4/2018 10:55:00 AM



#22
trans-1,2-Dichloroethene
Concen: 11.48 ppbv
RT: 5.06 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.0	133.3	199.9
98	63.5	51.0	76.4





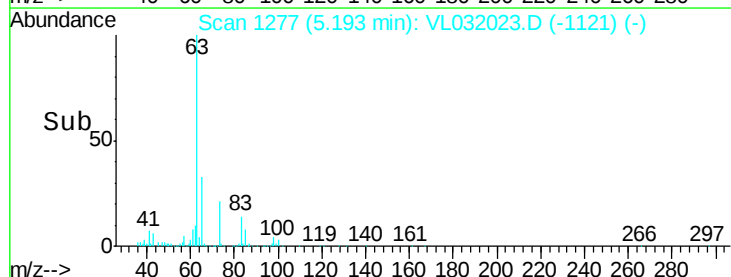
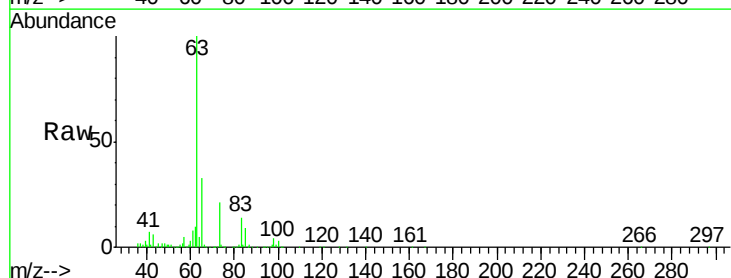
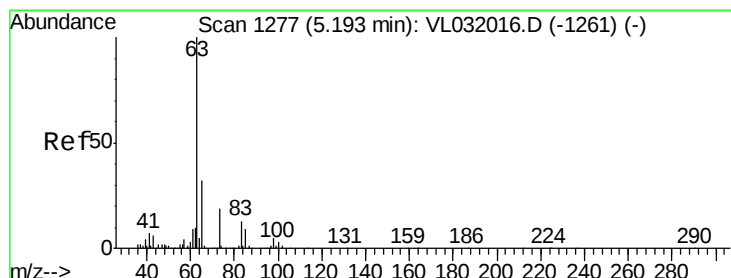
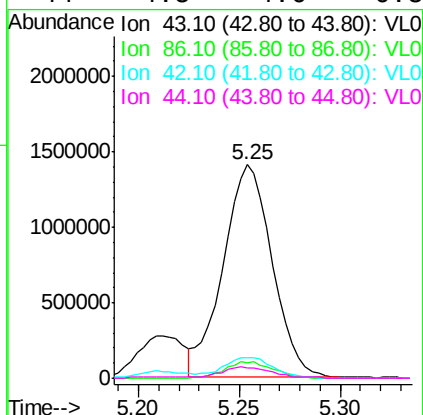
#23
 Vinyl Acetate
 Concen: 9.96 ppbv
 RT: 5.25 min Scan# 1296
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.2	9.4
42	9.5	8.7	13.1
44	4.5	4.6	6.8

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

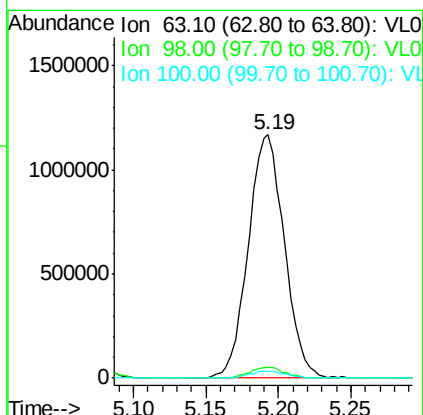
Manual Integrations
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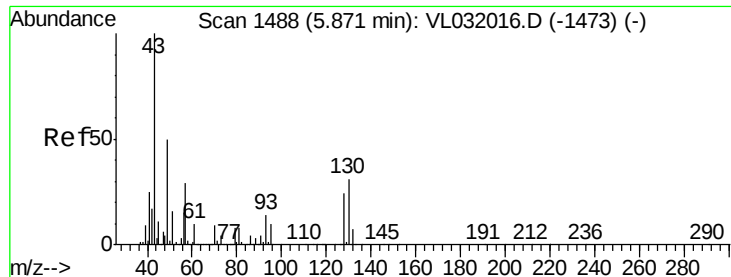
MMDadoda
 6/4/2018 10:55:00 AM



#24
 1,1-Dichloroethane
 Concen: 8.65 ppbv
 RT: 5.19 min Scan# 1277
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.1
100	2.7	1.5	4.5





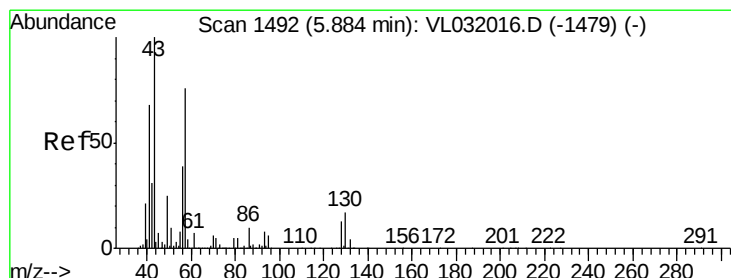
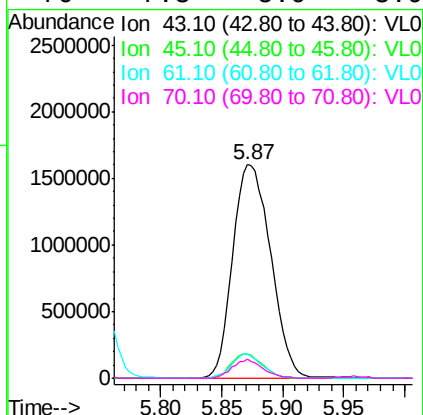
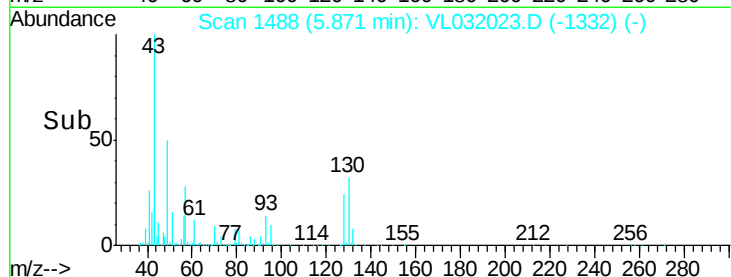
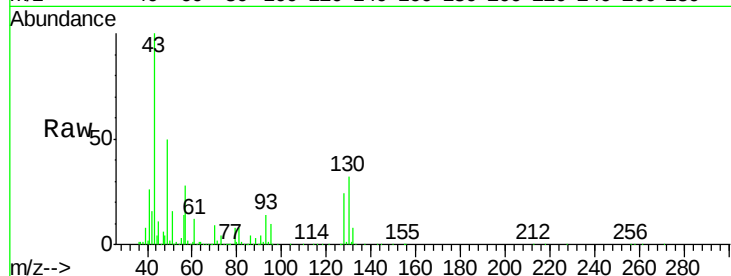
#25
Ethyl Acetate
Concen: 9.85 ppbv
RT: 5.87 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.8	11.6
61	9.5	7.4	11.2
70	7.3	5.9	8.9

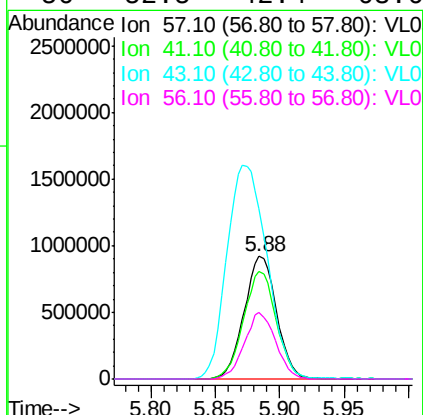
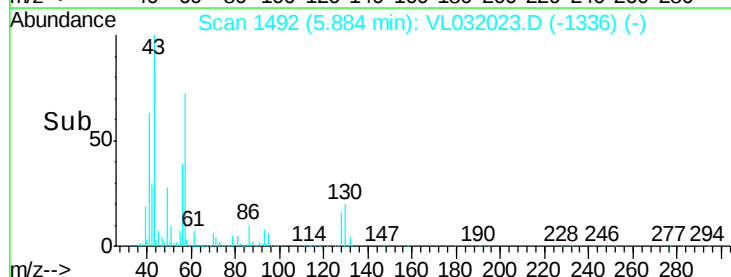
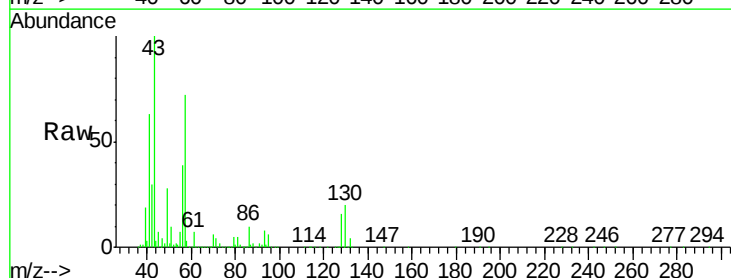
Manual Integrations
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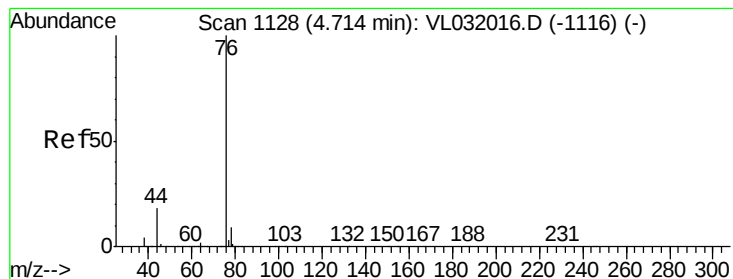
MMDadoda
6/4/2018 10:55:00 AM



#26
Hexane
Concen: 9.92 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	88.3	71.4	107.2
43	215.2	168.6	252.8
56	52.5	42.4	63.6





#27

Carbon Disulfide

Concen: 9.83 ppbv

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 76 Resp: 2096997

Ion Ratio Lower Upper

76 100

44 18.4 14.9 22.3

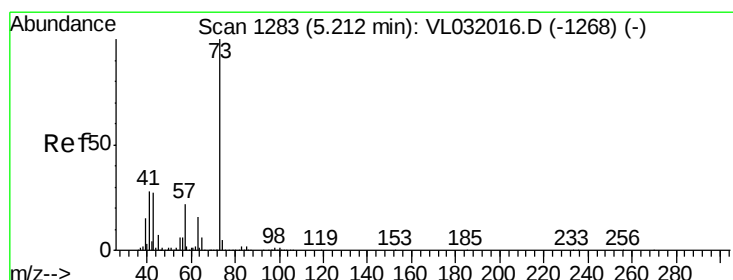
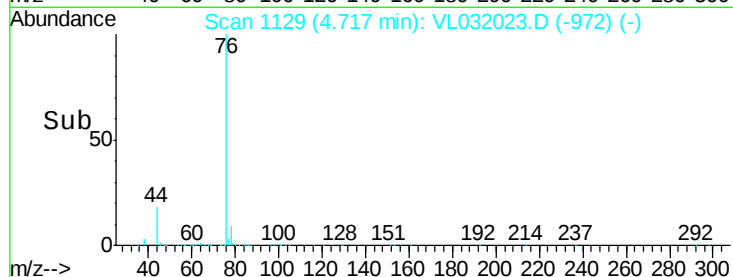
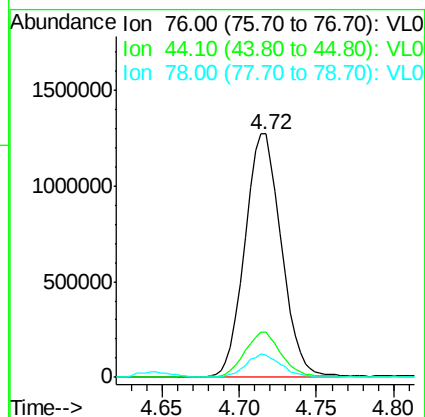
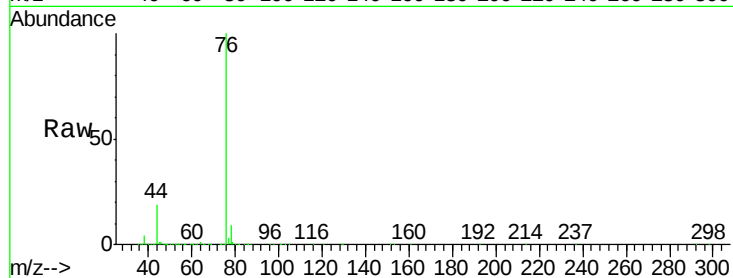
78 9.4 7.6 11.4

Manual Integrations

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MMDadoda

6/4/2018 10:55:00 AM



#28

Methyl tert-Butyl Ether

Concen: 9.95 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VL032023.D

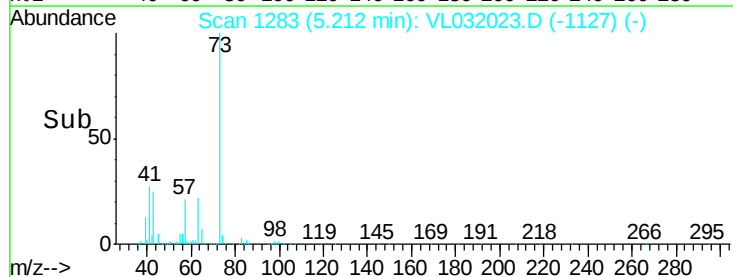
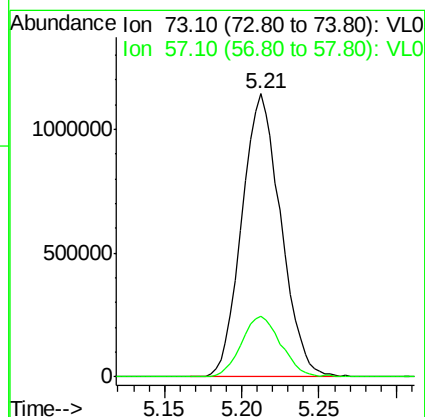
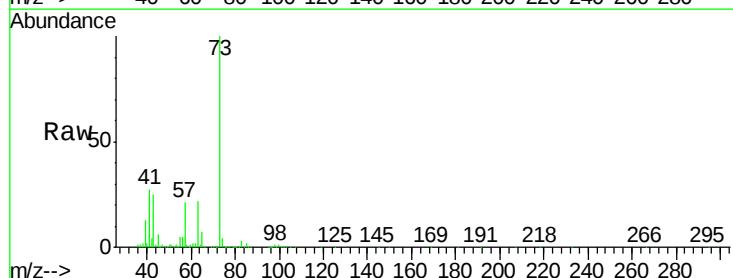
Acq: 1 Jun 2018 11:33

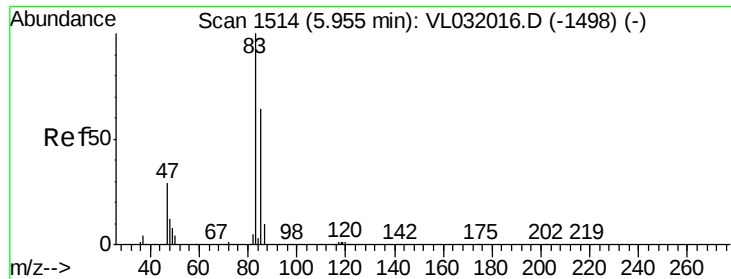
Tgt Ion: 73 Resp: 2005065

Ion Ratio Lower Upper

73 100

57 22.0 17.8 26.8





#29

Chloroform

Concen: 9.26 ppbv

RT: 5.95 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 83 Resp: 2542155

Ion Ratio Lower Upper

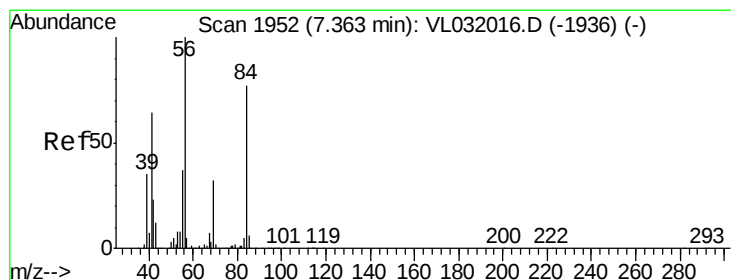
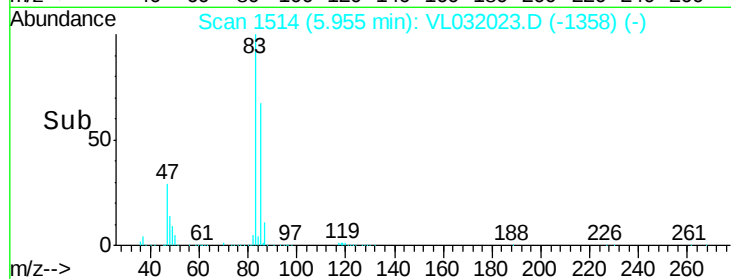
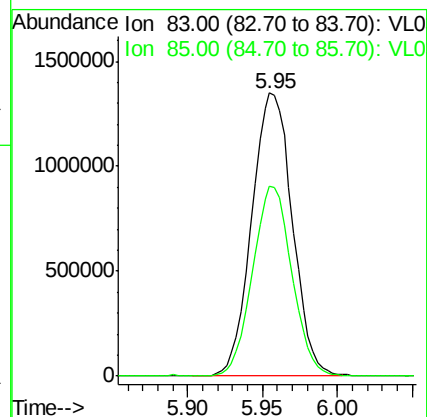
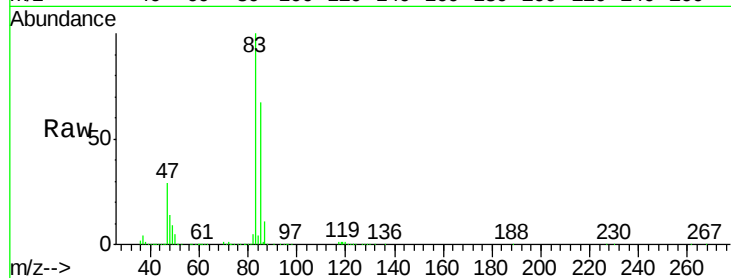
83 100

85 67.2 50.9 76.3

Manual Integrations
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MMDadoda

6/4/2018 10:55:00 AM



#30

Cyclohexane

Concen: 10.72 ppbv

RT: 7.36 min Scan# 1952

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

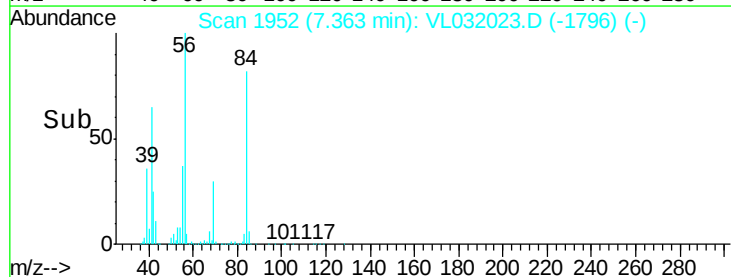
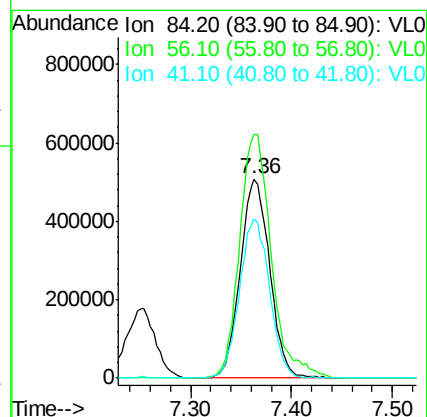
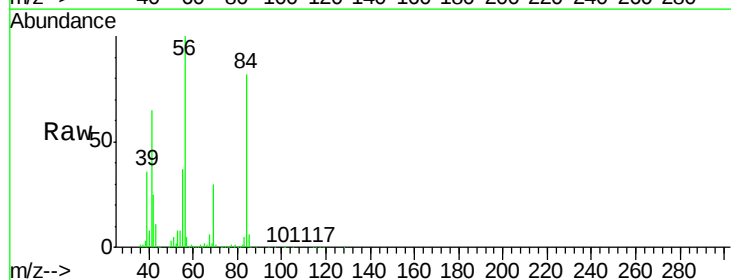
Tgt Ion: 84 Resp: 1030639

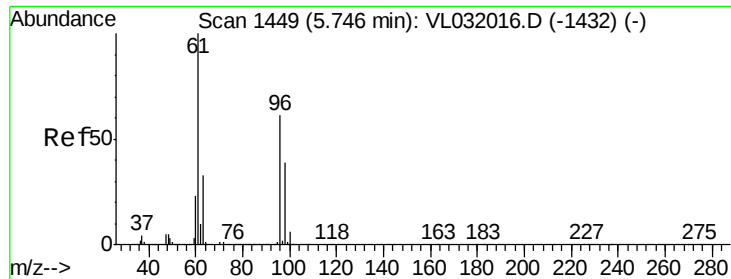
Ion Ratio Lower Upper

84 100

56 132.1 108.6 162.8

41 81.4 66.8 100.2





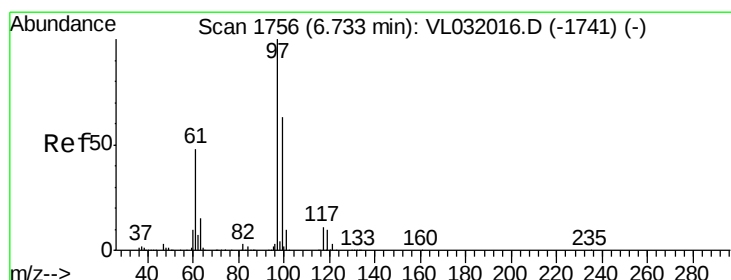
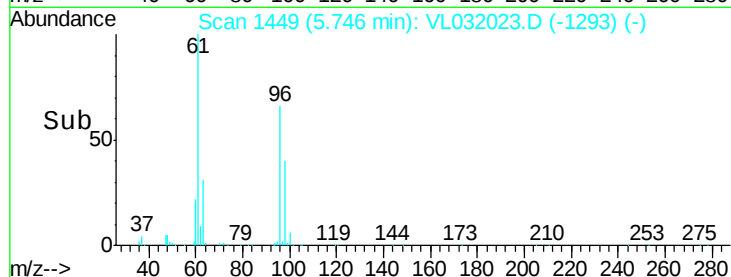
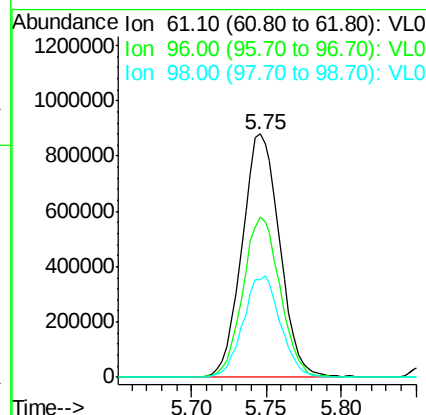
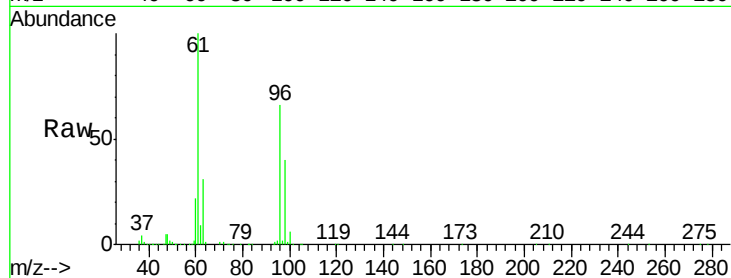
#31
 cis-1,2-Dichloroethene
 Concen: 10.50 ppbv
 RT: 5.75 min Scan# 1449
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion: 61 Resp: 1538490
 Ion Ratio Lower Upper
 61 100
 96 65.6 49.0 73.6
 98 40.2 31.2 46.8

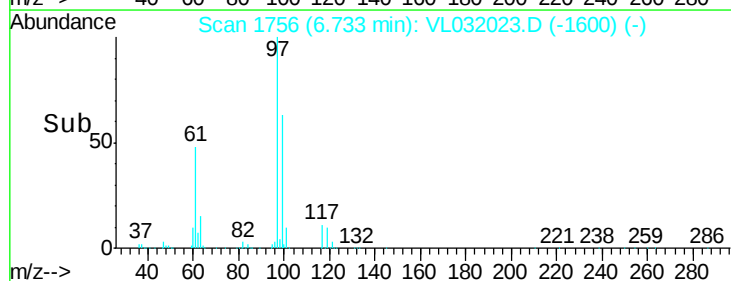
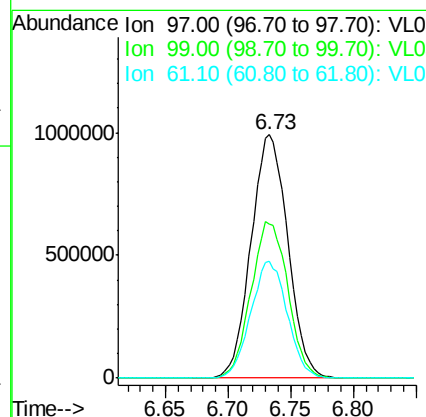
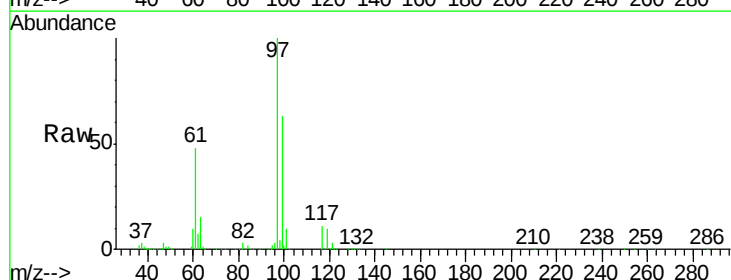
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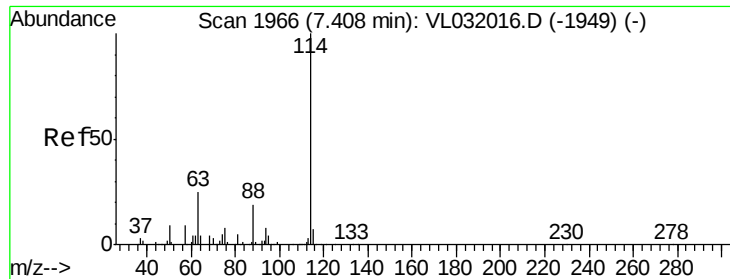
MMDadoda
 6/4/2018 10:55:00 AM



#32
 1,1,1-Trichloroethane
 Concen: 9.05 ppbv
 RT: 6.73 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion: 97 Resp: 2026356
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.5 77.3
 61 47.7 39.4 59.2





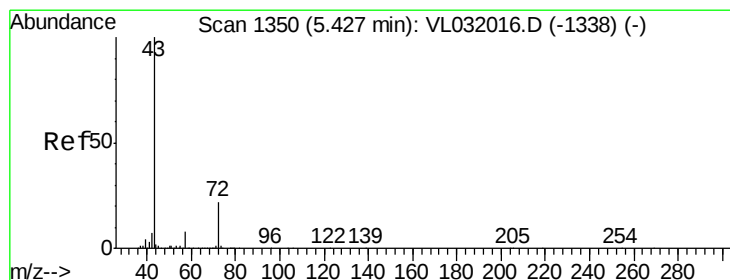
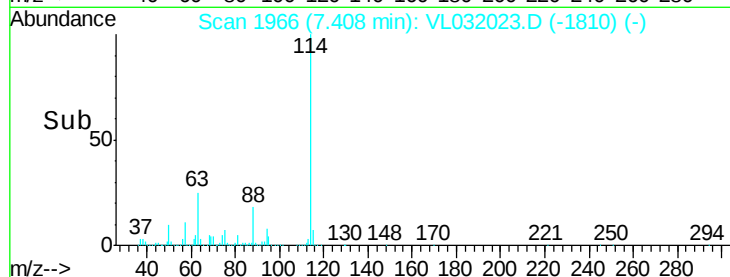
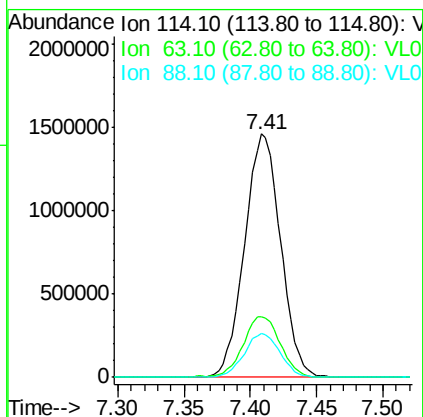
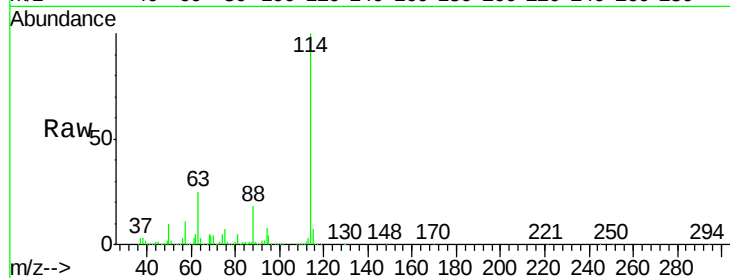
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.41 min Scan# 1966
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.1	31.7
88	18.1	14.8	22.2

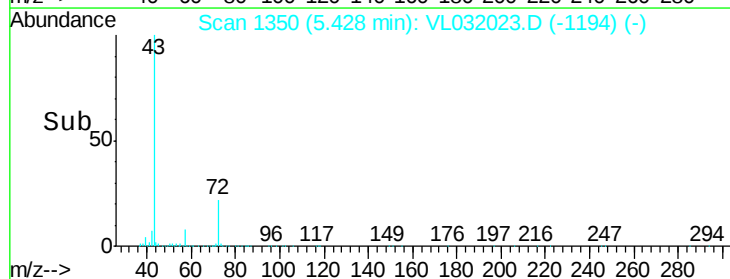
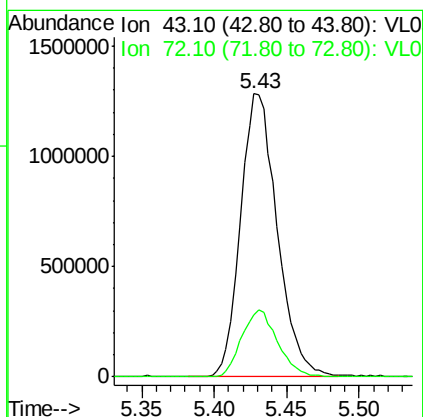
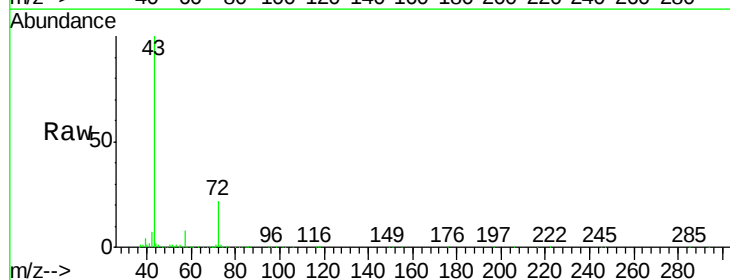
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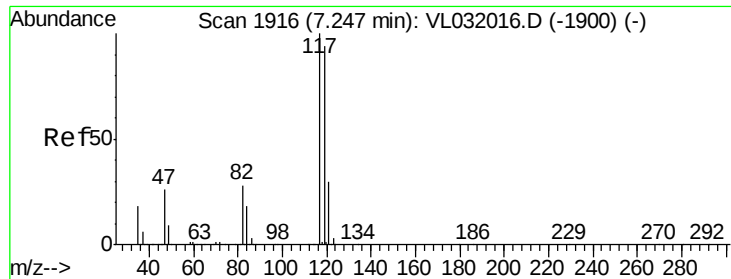
MMDadoda
 6/4/2018 10:55:00 AM



#34
 2-Butanone
 Concen: 10.36 ppbv
 RT: 5.43 min Scan# 1350
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.6	27.8





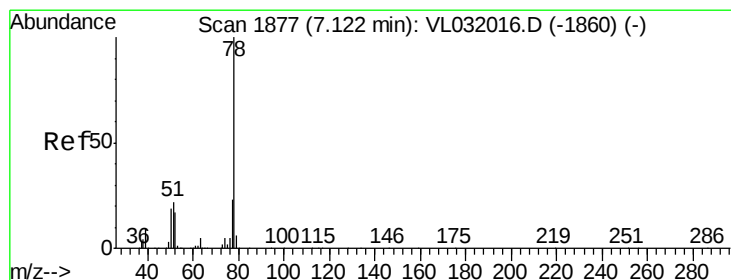
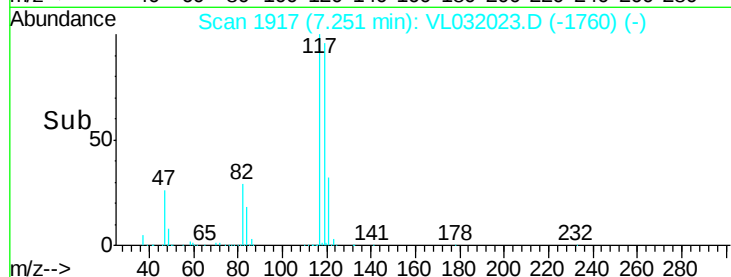
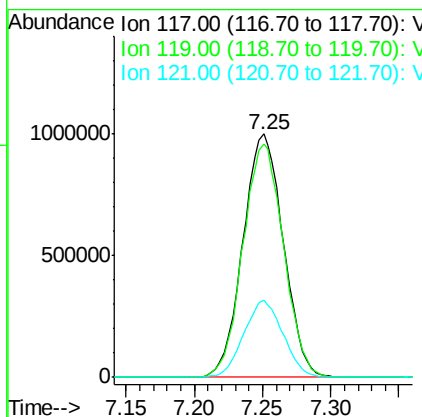
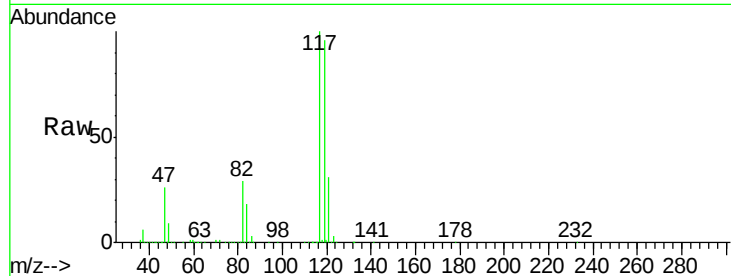
#35
Carbon Tetrachloride
Concen: 8.72 ppbv
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.3	112.9
121	31.5	24.1	36.1

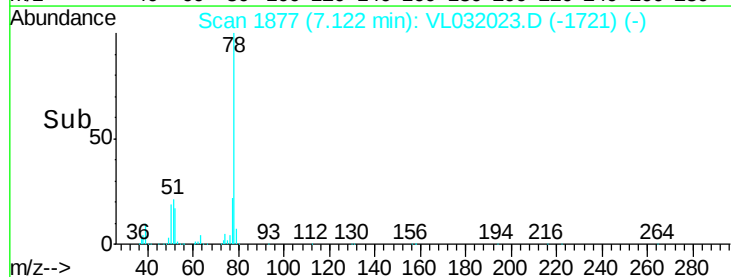
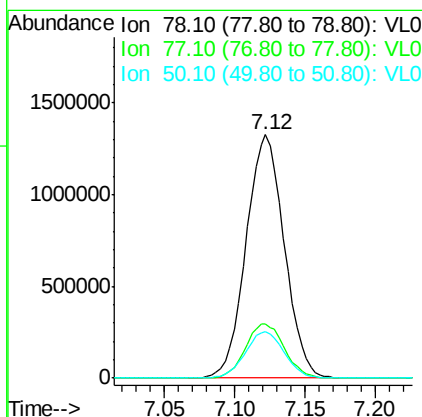
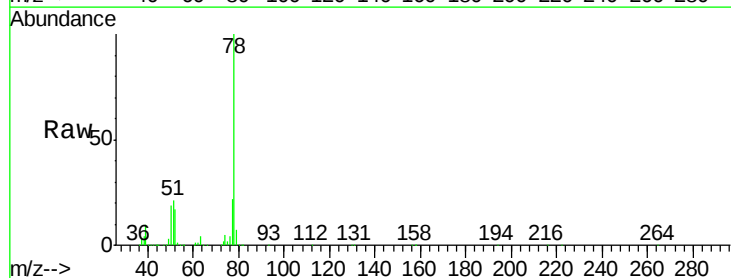
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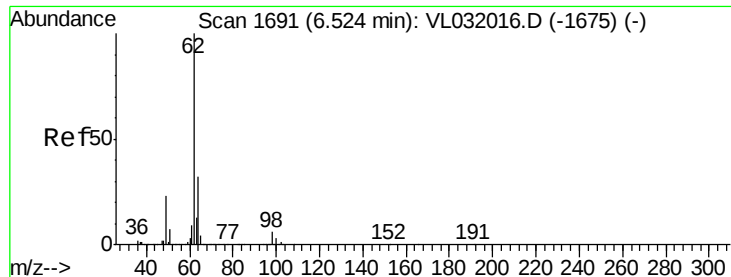
MMDadoda
6/4/2018 10:55:00 AM



#36
Benzene
Concen: 10.36 ppbv
RT: 7.12 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.1	27.1
50	19.4	14.9	22.3





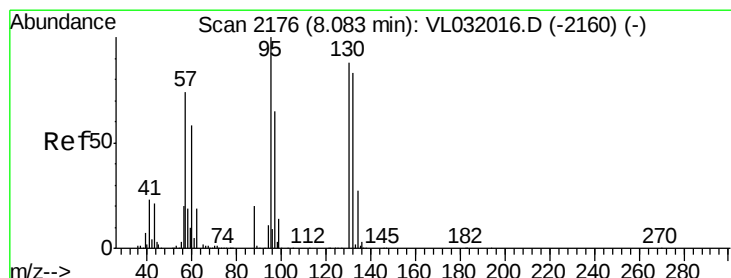
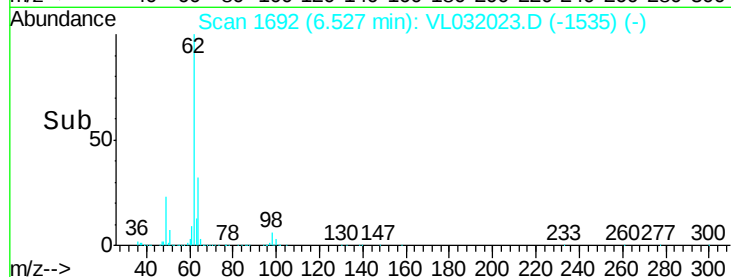
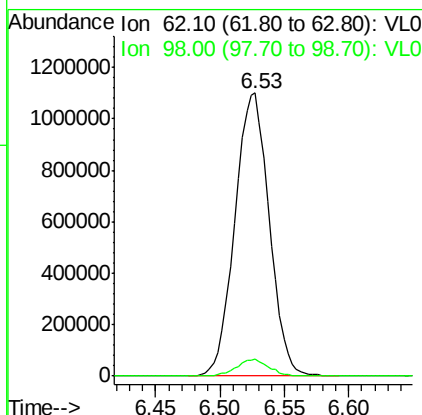
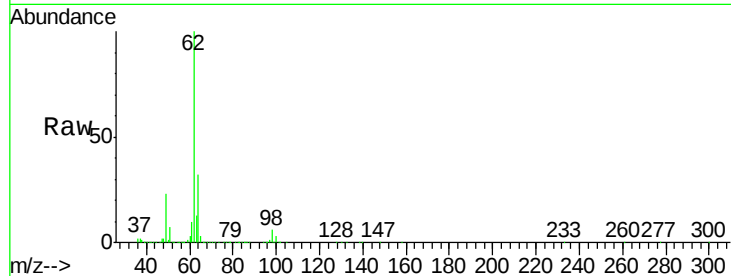
#37
 1,2-Dichloroethane
 Concen: 11.67 ppbv
 RT: 6.53 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.2	6.4

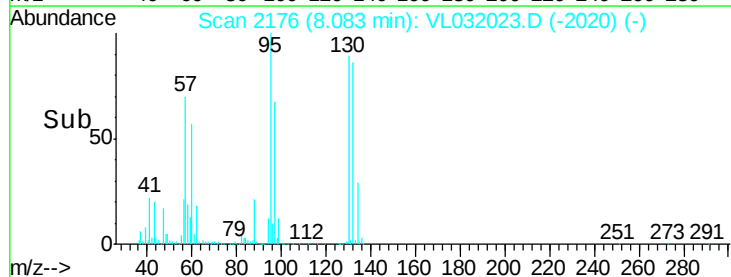
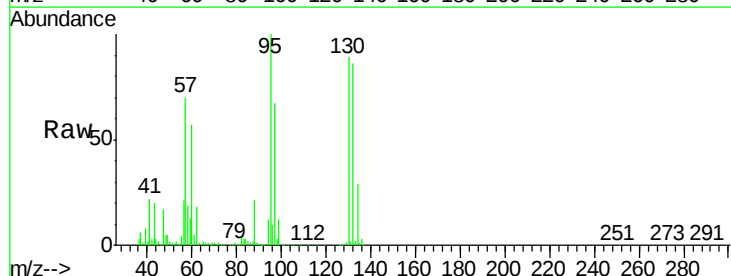
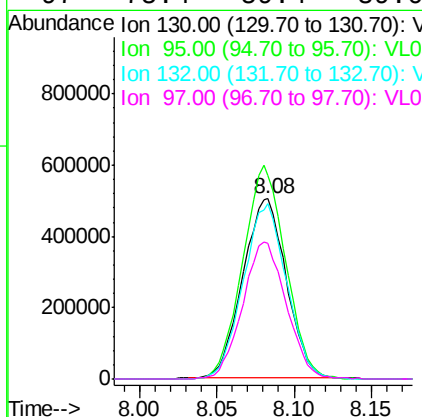
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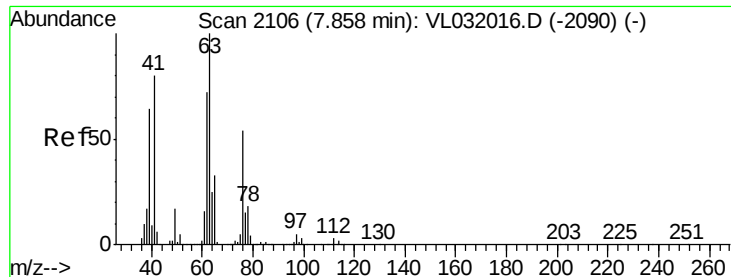
MMDadoda
 6/4/2018 10:55:00 AM



#38
 Trichloroethene
 Concen: 10.58 ppbv
 RT: 8.08 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	113.2	90.7	136.1
132	97.3	75.6	113.4
97	75.4	59.4	89.0





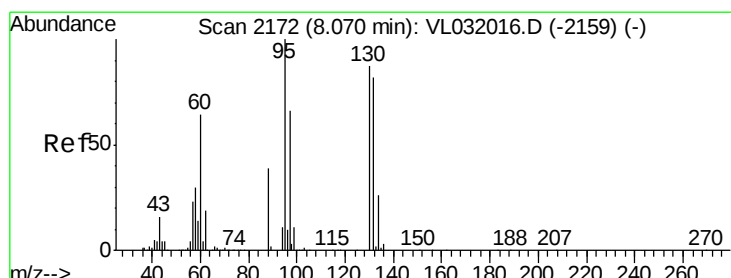
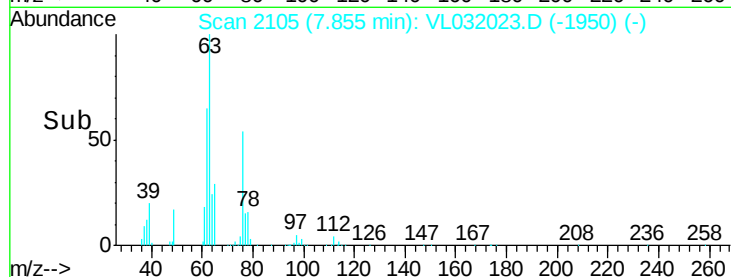
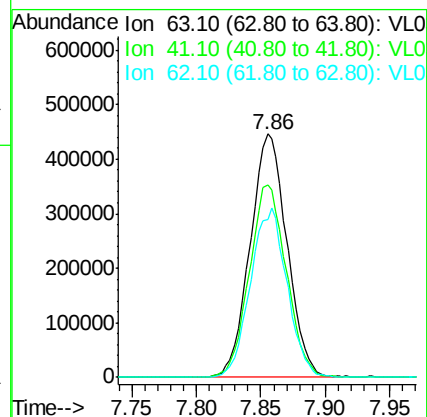
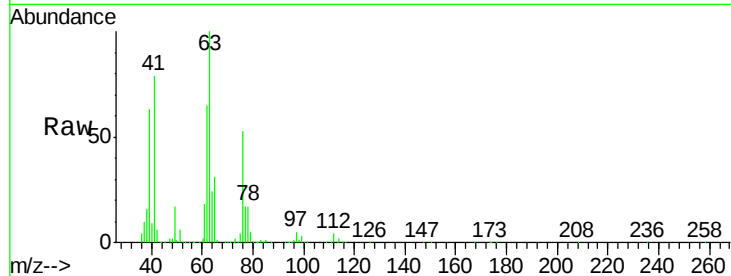
#39
 1,2-Dichloropropane
 Concen: 9.95 ppbv
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.9	64.0	96.0
62	64.9	57.6	86.4

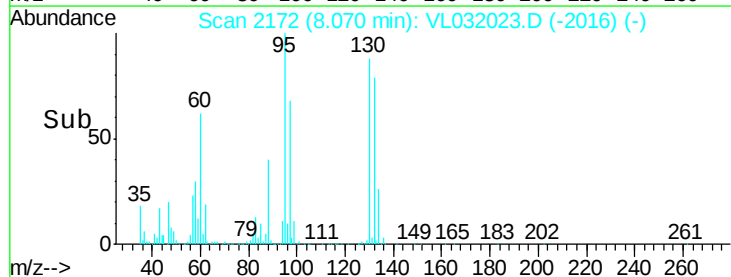
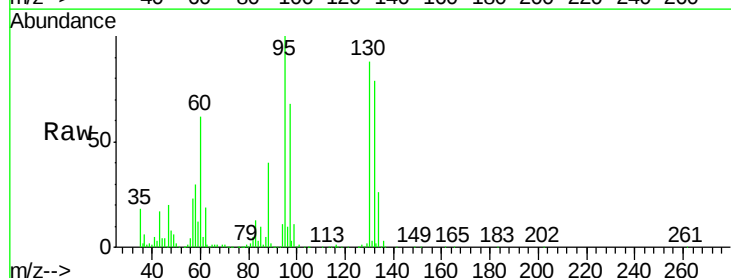
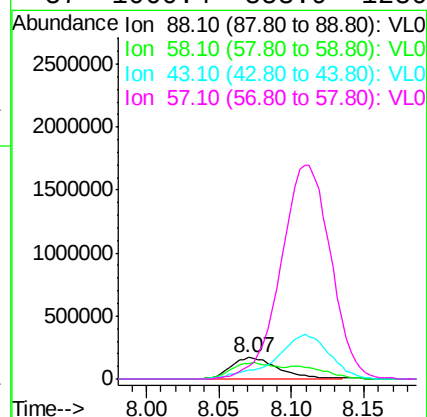
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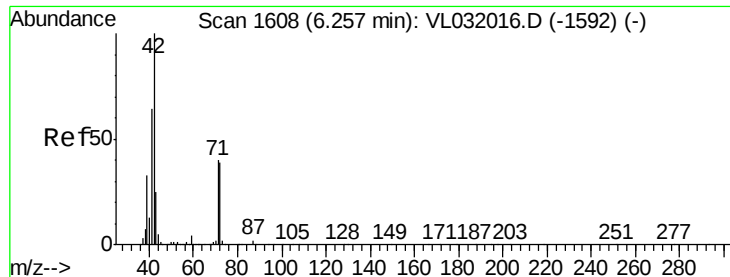
MMDadoda
 6/4/2018 10:55:00 AM



#40
 1,4-Dioxane
 Concen: 9.94 ppbv
 RT: 8.07 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
88	100		
58	125.4	100.5	150.7
43	239.3	193.8	290.6
57	1060.4	853.9	1280.9





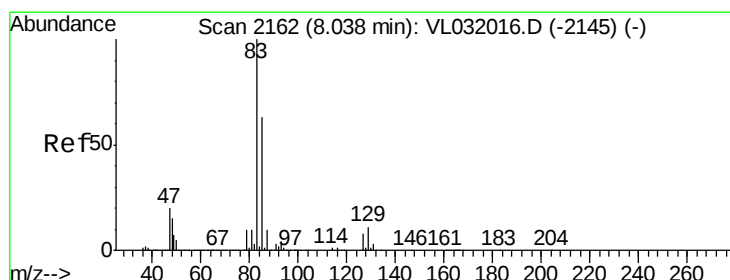
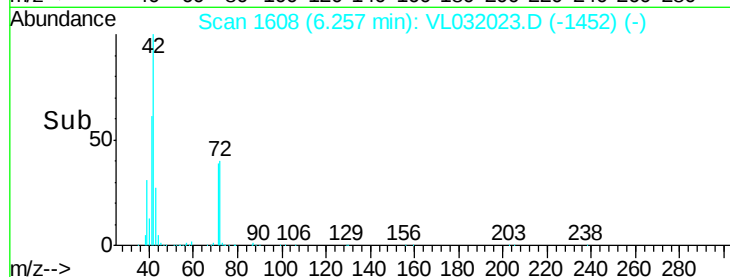
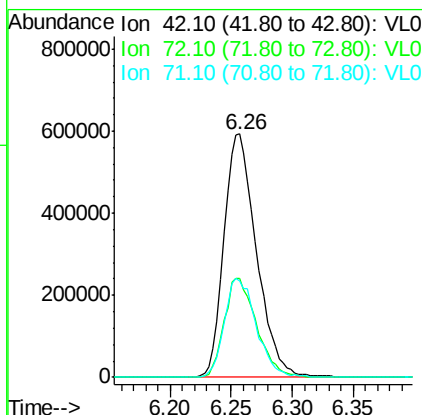
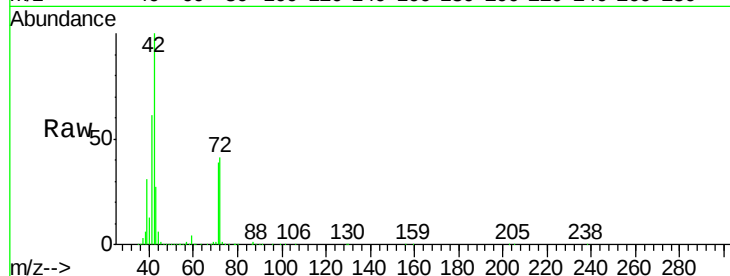
#41
Tetrahydrofuran
Concen: 11.88 ppbv
RT: 6.26 min Scan# 1608
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	32.3	48.5
71	40.0	32.3	48.5

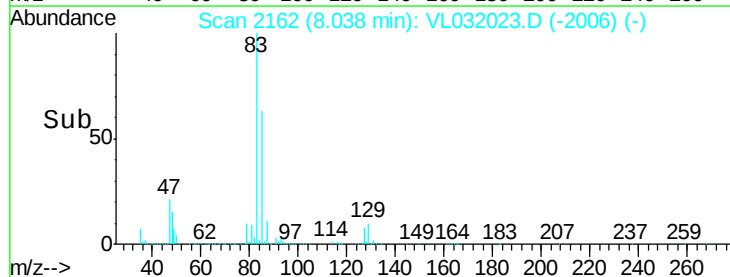
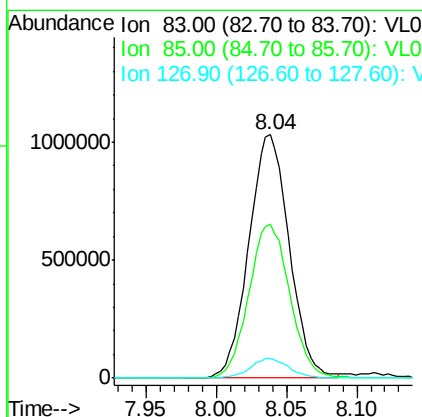
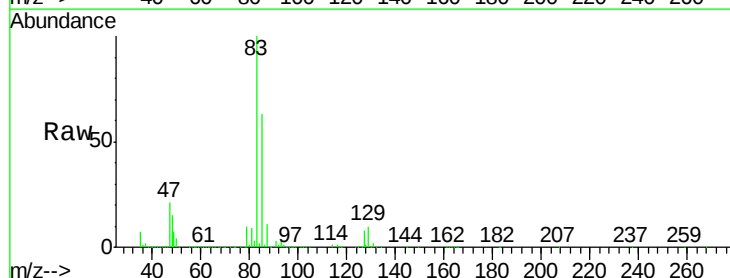
Manual Integrations
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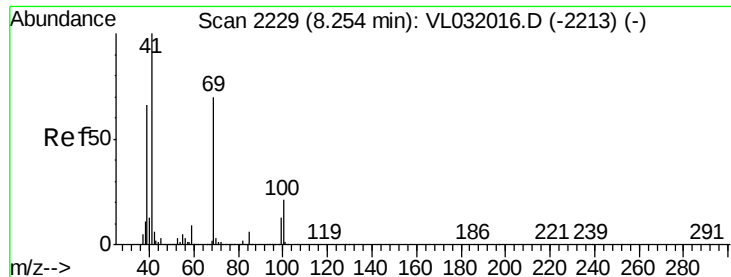
MMDadoda
6/4/2018 10:55:00 AM



#42
Bromodichloromethane
Concen: 9.47 ppbv
RT: 8.04 min Scan# 2162
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.3	75.5
127	8.0	6.6	9.8





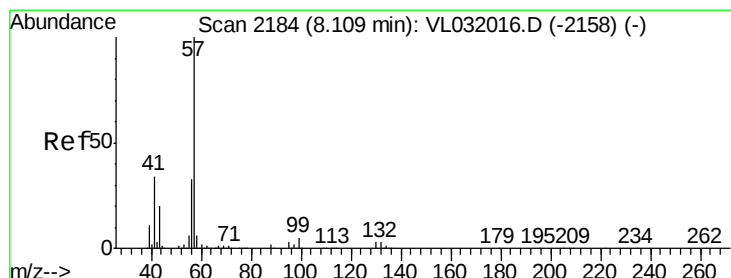
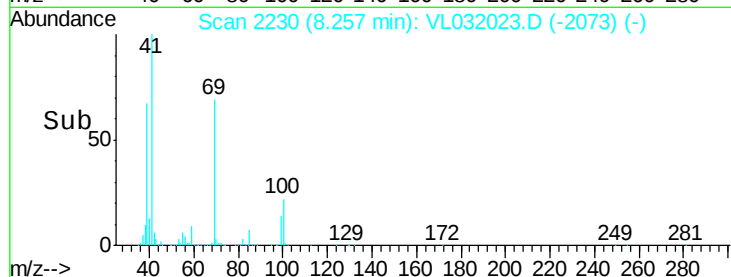
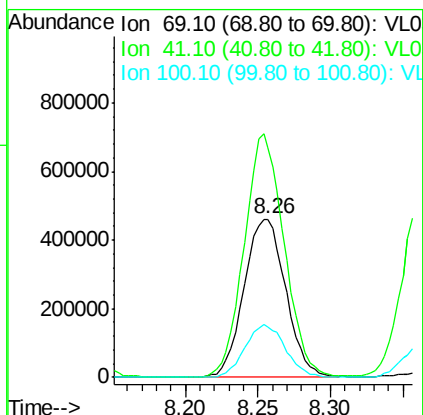
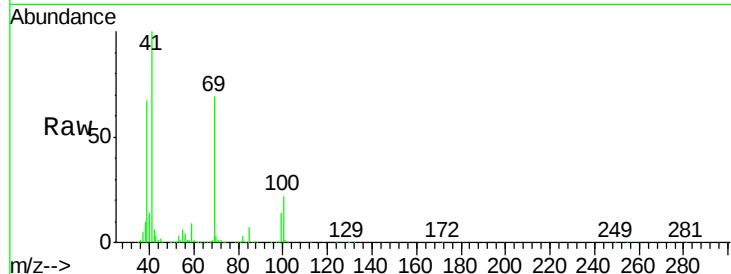
#43
Methvl Methacrylate
Concen: 10.93 ppbv
RT: 8.26 min Scan# 2230
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion	Ratio	Lower	Upper
69	100		
41	146.9	115.5	173.3
100	32.2	25.4	38.0

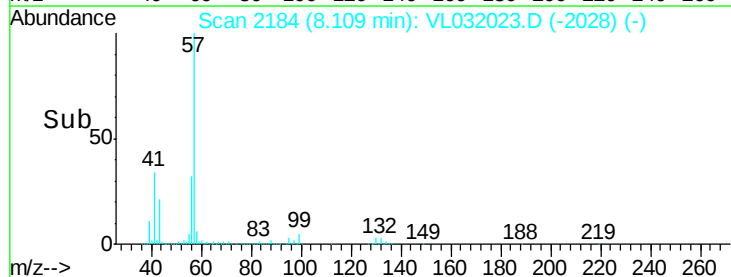
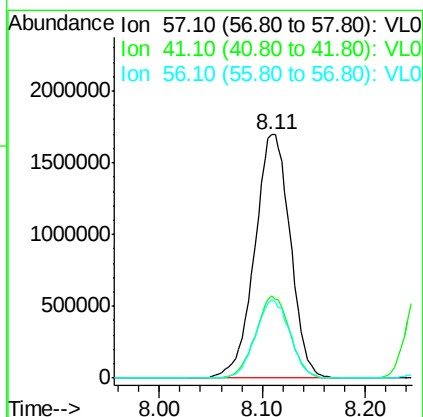
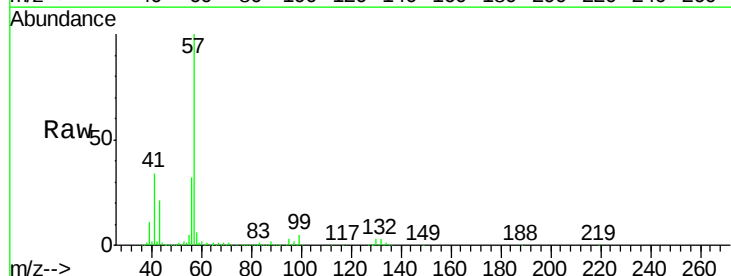
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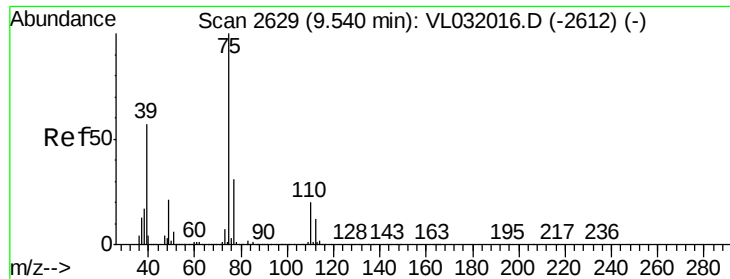
MMDadoda
6/4/2018 10:55:00 AM



#44
2,2,4-Trimethylpentane
Concen: 9.75 ppbv
RT: 8.11 min Scan# 2184
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.4	26.6	40.0
56	31.0	24.9	37.3





#45

t-1,3-Dichloropropene

Concen: 11.96 ppbv

RT: 9.54 min Scan# 2629

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 75 Resp: 1366658

Ion Ratio Lower Upper

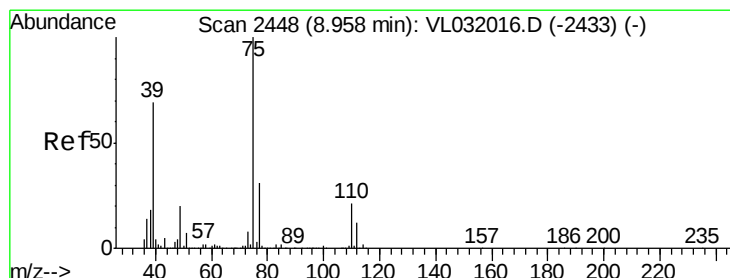
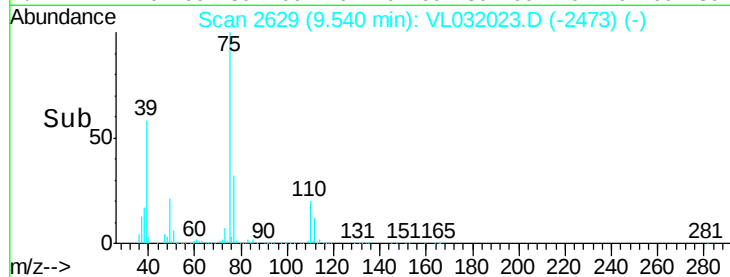
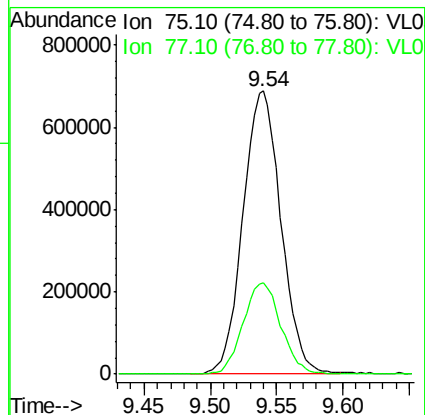
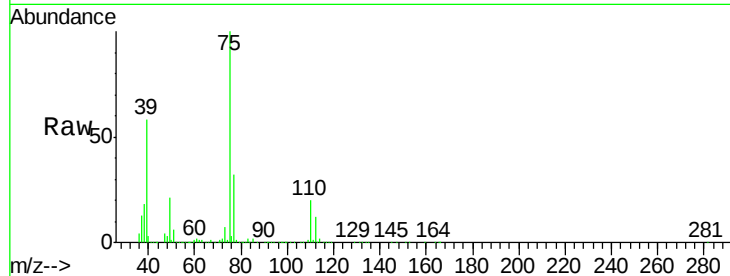
75 100

77 32.1 25.0 37.4

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MMDadoda

6/4/2018 10:55:00 AM



#46

cis-1,3-Dichloropropene

Concen: 11.27 ppbv

RT: 8.96 min Scan# 2448

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

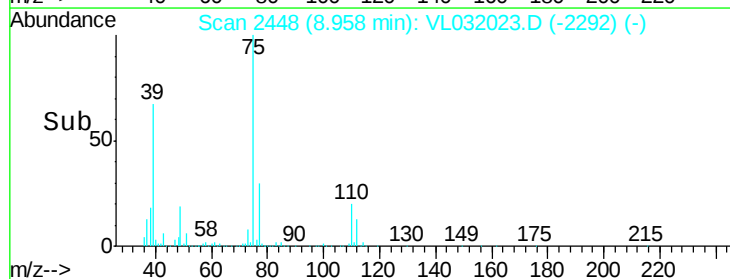
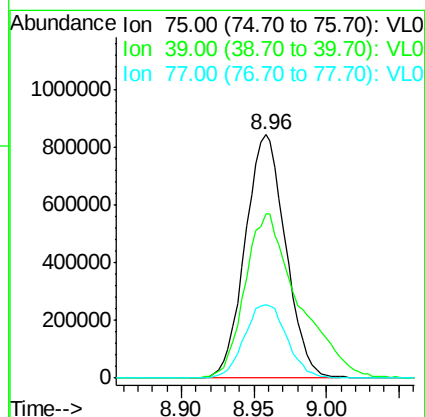
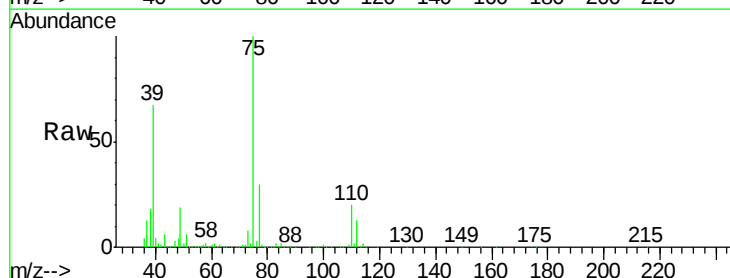
Tgt Ion: 75 Resp: 1635820

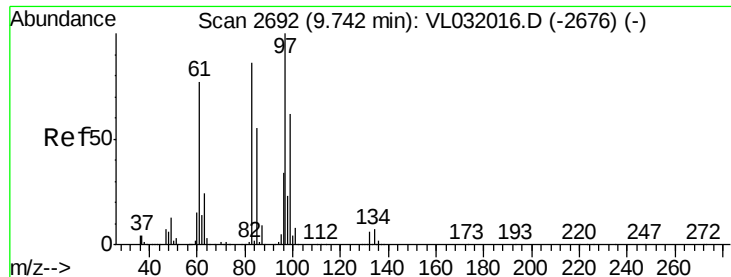
Ion Ratio Lower Upper

75 100

39 67.3 55.0 82.6

77 30.4 25.0 37.6





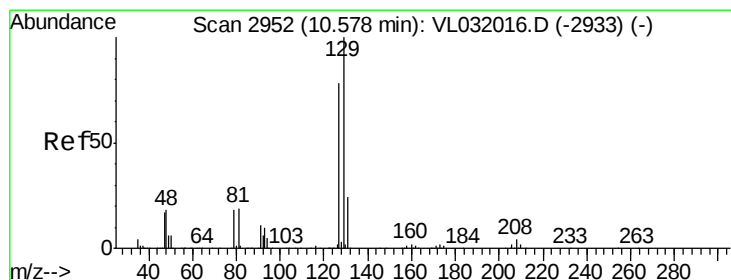
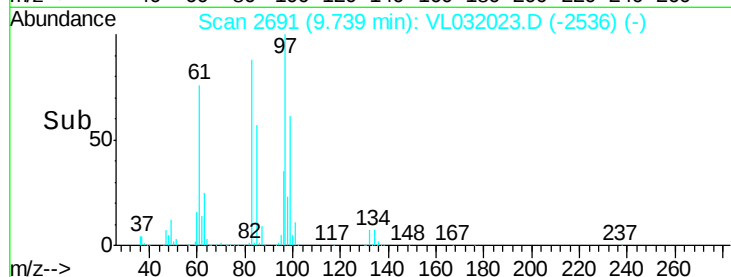
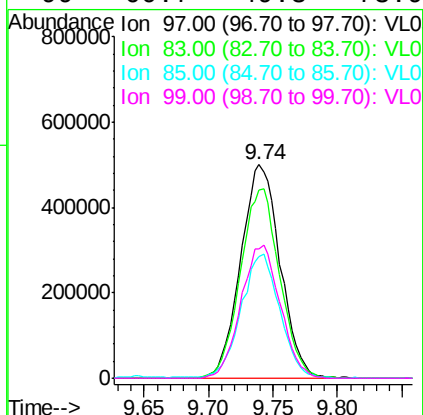
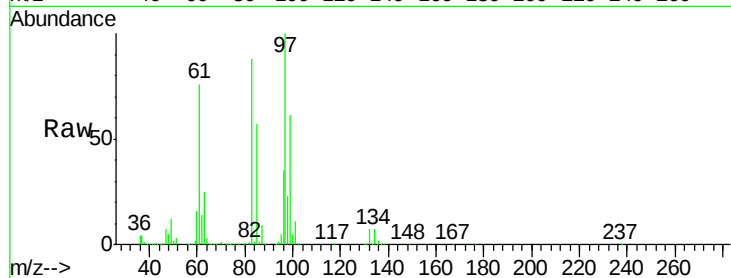
#47
 1,1,2-Trichloroethane
 Concen: 9.63 ppbv
 RT: 9.74 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.1	69.1	103.7
85	56.7	44.5	66.7
99	60.7	49.3	73.9

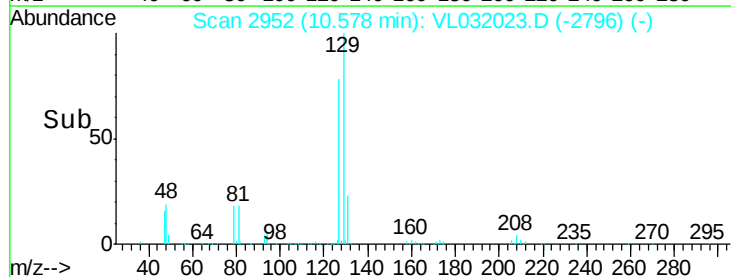
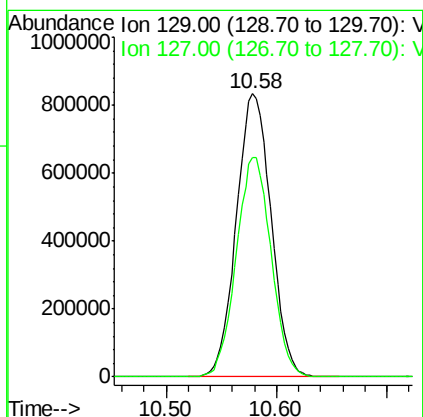
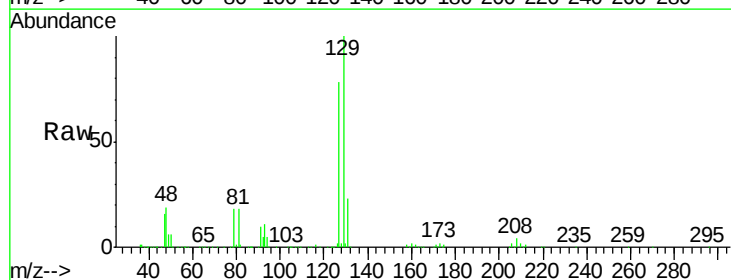
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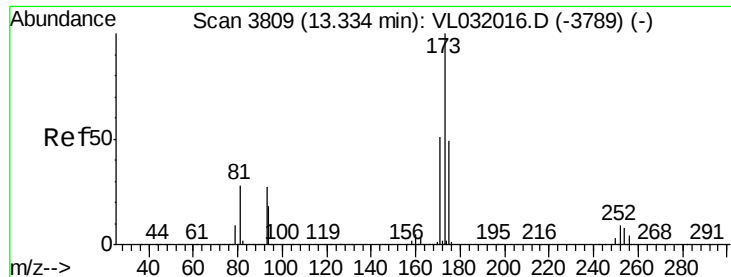
MMDadoda
 6/4/2018 10:55:00 AM



#48
 Dibromochloromethane
 Concen: 9.95 ppbv
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.3	117.9





#49

Bromoform

Concen: 10.09 ppbv

RT: 13.33 min Scan# 3808

Delta R.T. -0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion:173 Resp: 1449218

Ion Ratio Lower Upper

173 100

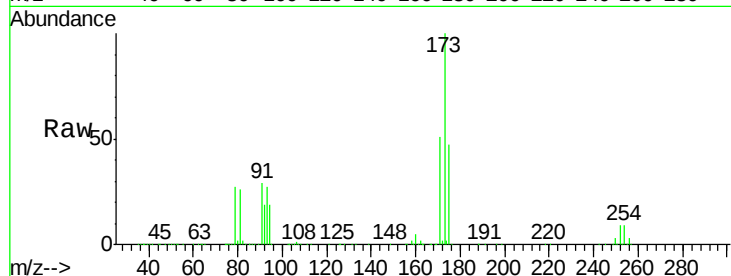
175 48.7 39.8 59.8

171 51.7 41.7 62.5

Manual Integrations
APPROVED

MMDadoda

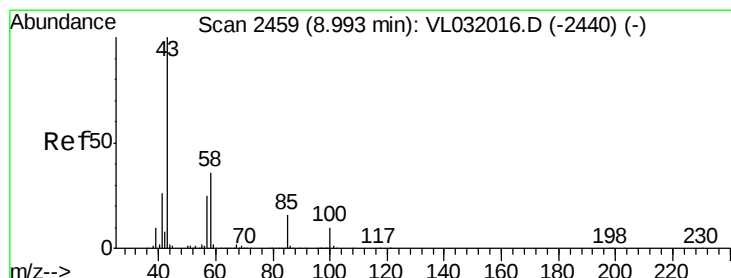
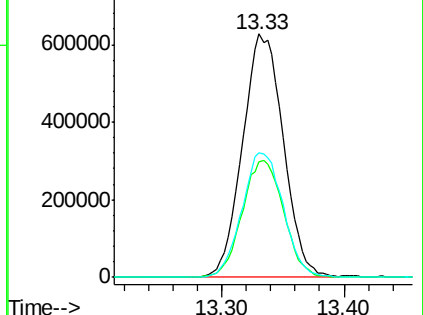
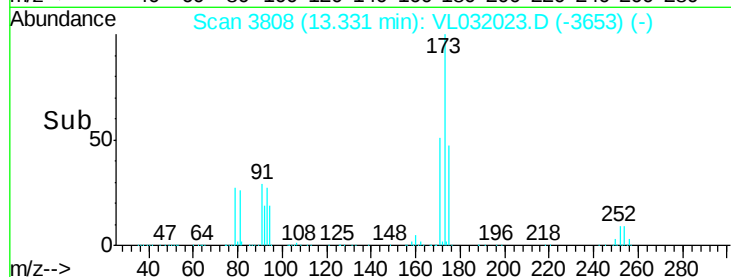
6/4/2018 10:55:00 AM



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: 10.32 ppbv

RT: 8.99 min Scan# 2458

Delta R.T. -0.00 min

Lab File: VL032023.D

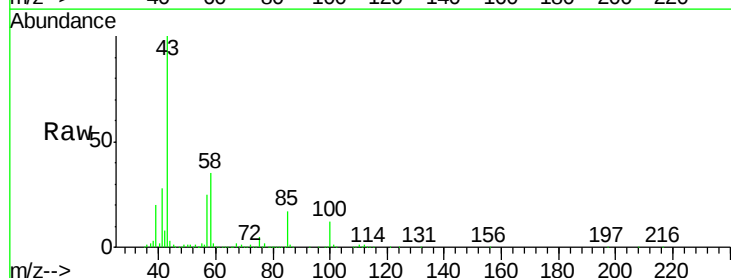
Acq: 1 Jun 2018 11:33

Tgt Ion: 43 Resp: 2179888

Ion Ratio Lower Upper

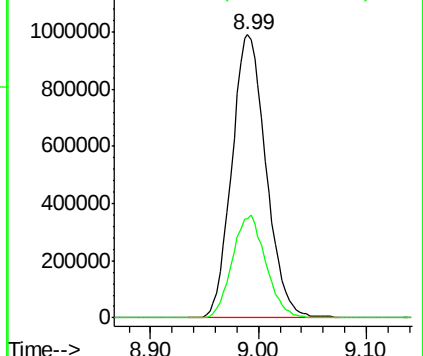
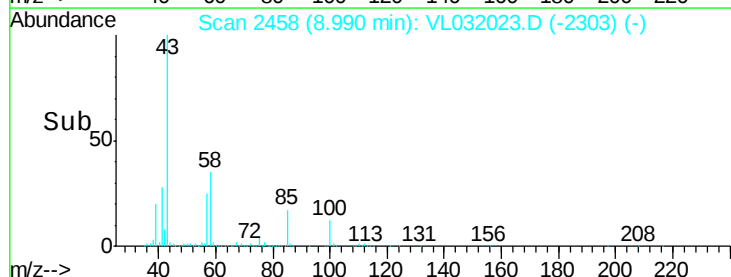
43 100

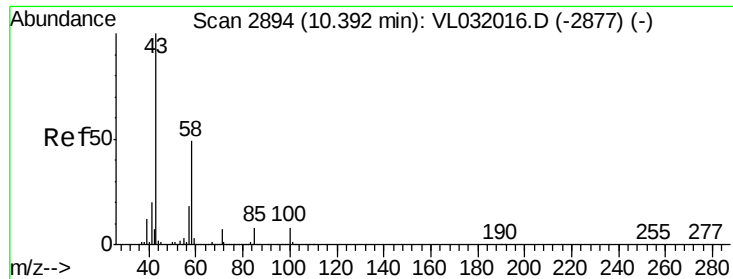
58 35.8 29.1 43.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





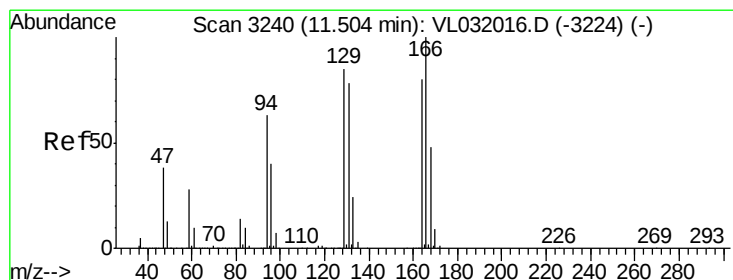
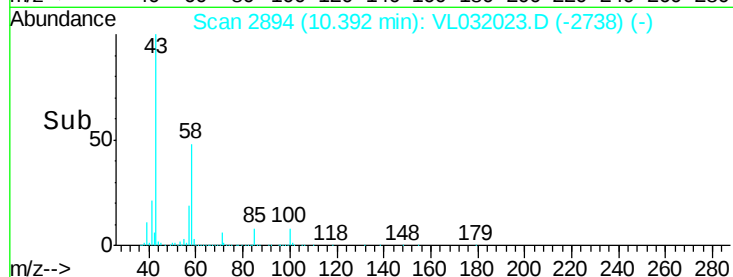
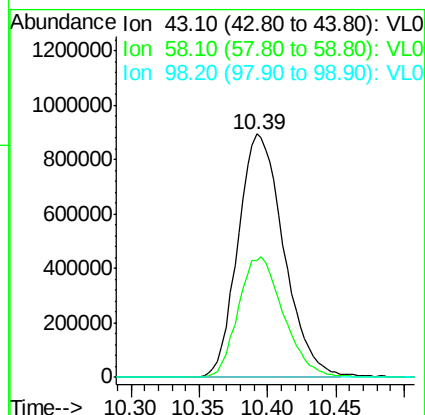
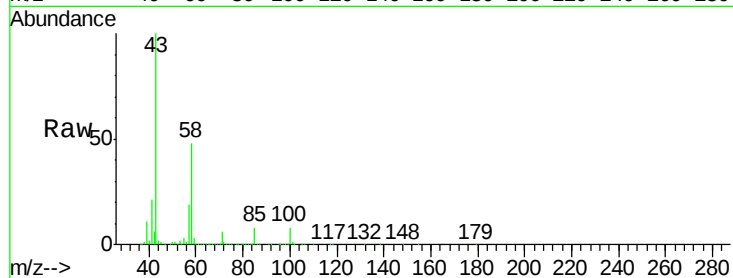
#51
2-Hexanone
Concen: 10.98 ppbv
RT: 10.39 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion: 43 Resp: 2080770
Ion Ratio Lower Upper
43 100
58 49.2 39.0 58.6
98 0.4 0.4 0.6#

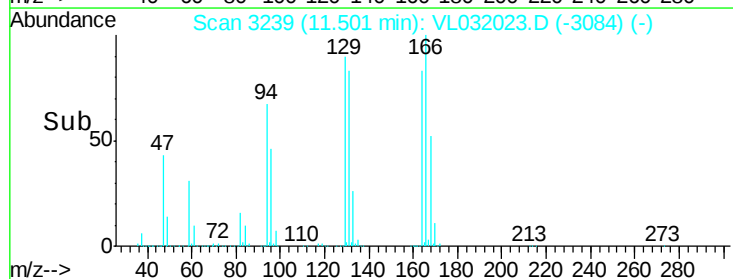
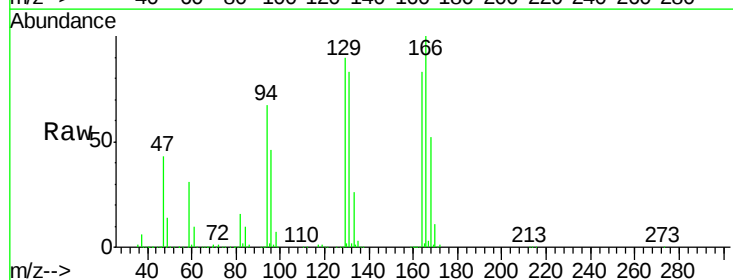
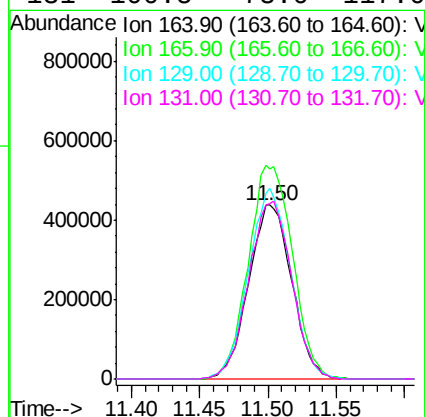
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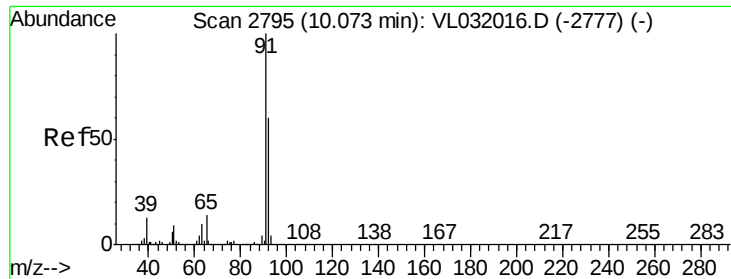
MMDadoda
6/4/2018 10:55:00 AM



#52
Tetrachloroethene
Concen: 9.96 ppbv
RT: 11.50 min Scan# 3239
Delta R.T. -0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion: 164 Resp: 959918
Ion Ratio Lower Upper
164 100
166 120.9 100.2 150.2
129 109.3 85.4 128.0
131 100.5 78.0 117.0





#53

Toluene

Concen: 10.99 ppbv

RT: 10.07 min Scan# 2795

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 91 Resp: 2984059

Ion Ratio Lower Upper

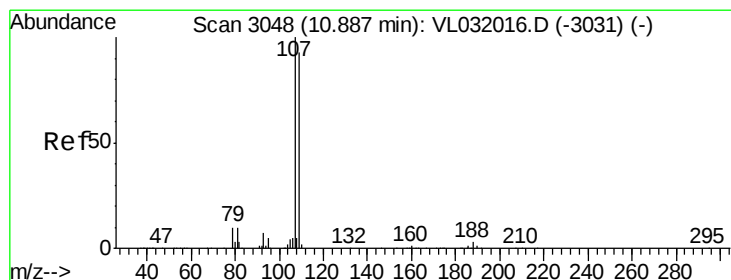
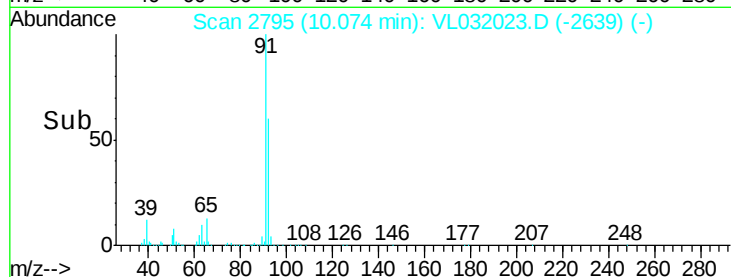
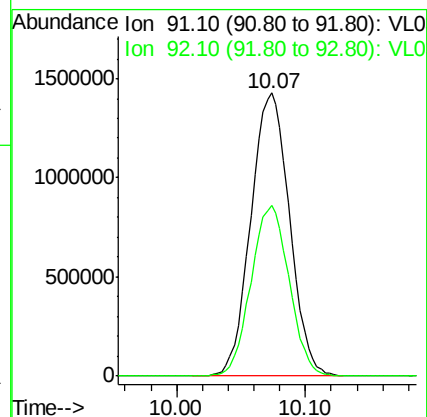
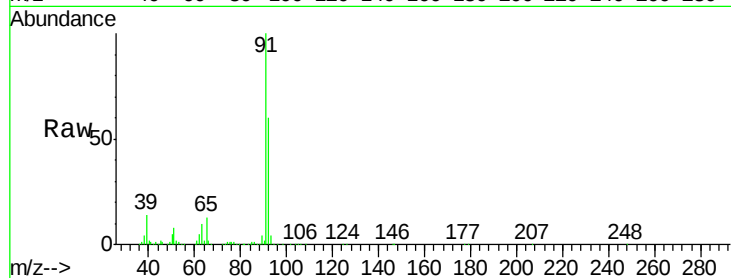
91 100

92 59.6 48.2 72.2

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MMDadoda

6/4/2018 10:55:00 AM



#54

1,2-Dibromoethane

Concen: 10.19 ppbv

RT: 10.89 min Scan# 3048

Delta R.T. 0.00 min

Lab File: VL032023.D

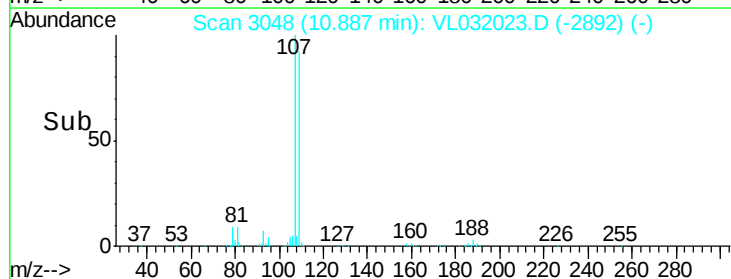
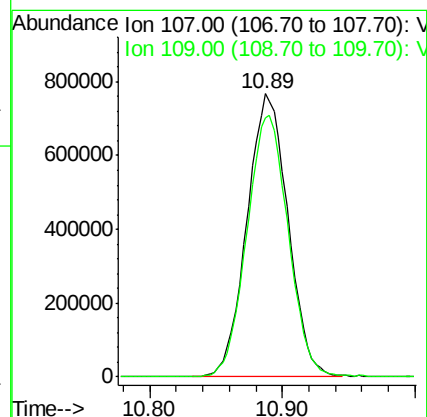
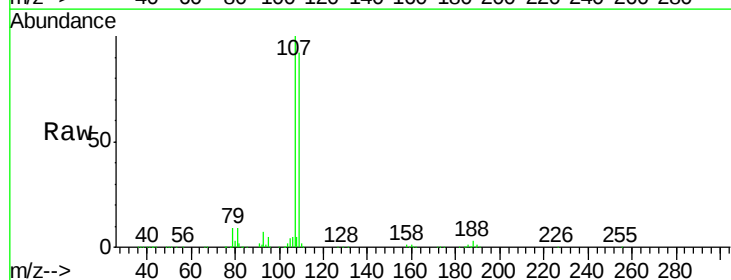
Acq: 1 Jun 2018 11:33

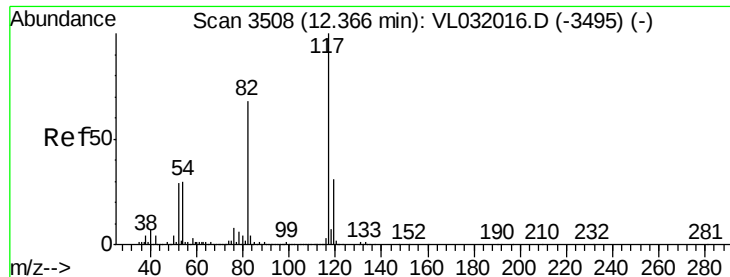
Tgt Ion: 107 Resp: 1648098

Ion Ratio Lower Upper

107 100

109 91.6 74.6 111.8





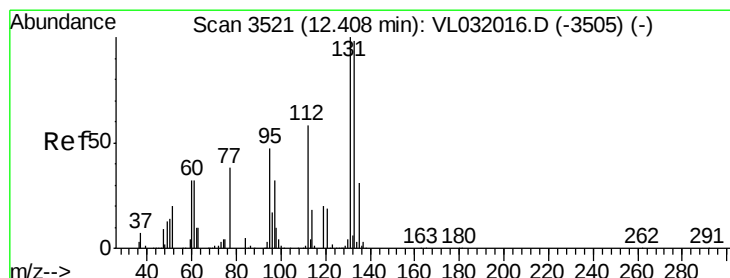
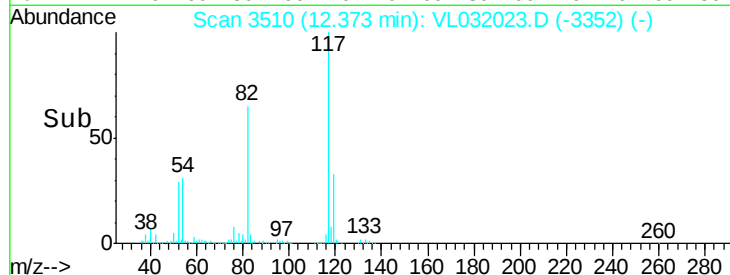
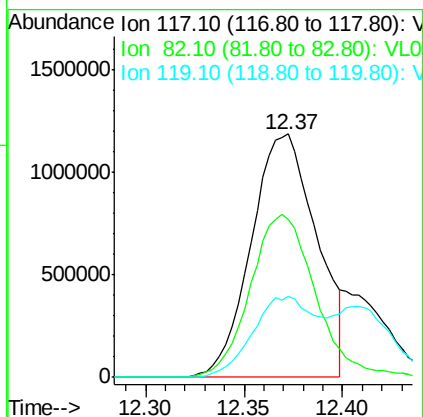
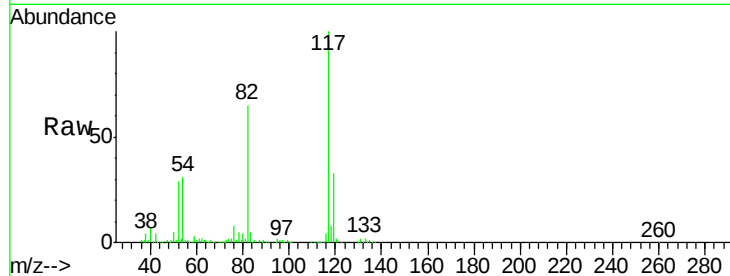
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.37 min Scan# 3510
Delta R.T. 0.01 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion:117 Resp: 2752500
Ion Ratio Lower Upper
117 100
82 66.9 52.7 79.1
119 30.9 25.5 38.3

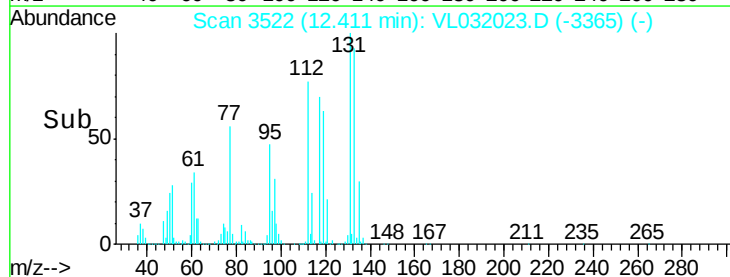
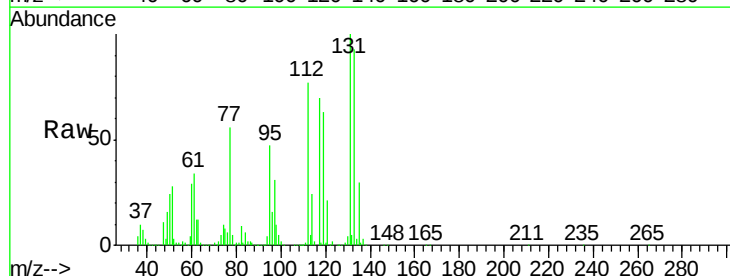
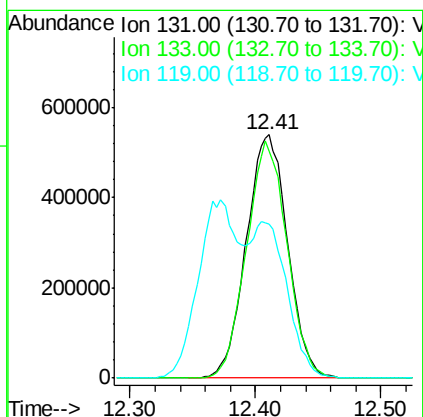
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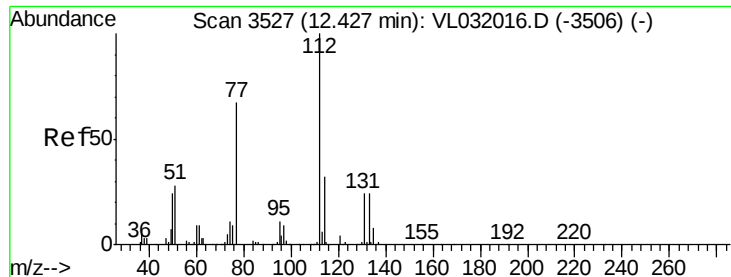
MMDadoda
6/4/2018 10:55:00 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.30 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion:131 Resp: 1234888
Ion Ratio Lower Upper
131 100
133 95.7 76.7 115.1
119 52.3 49.2 73.8





#57

Chlorobenzene

Concen: 9.29 ppbv

RT: 12.43 min Scan# 3528

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion:112 Resp: 2335282

Ion Ratio Lower Upper

112 100

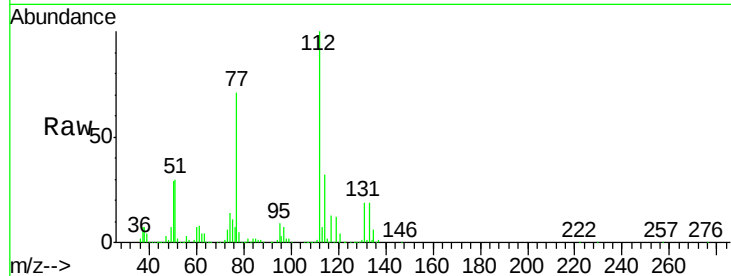
77 71.1 54.3 81.5

114 32.5 28.6 35.0

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MMDadoda

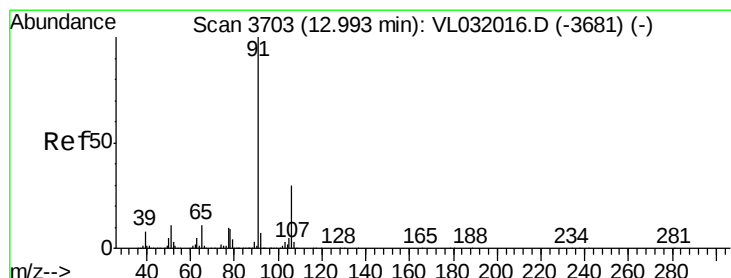
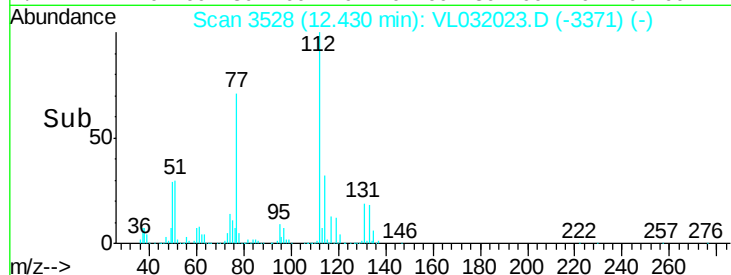
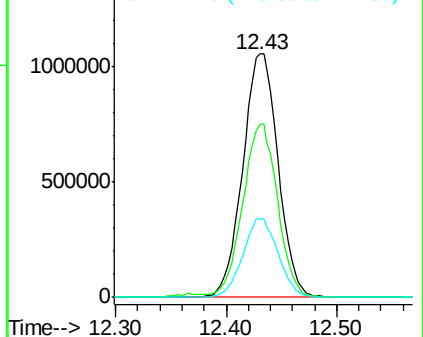
6/4/2018 10:55:00 AM



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: 10.82 ppbv

RT: 12.99 min Scan# 3703

Delta R.T. 0.00 min

Lab File: VL032023.D

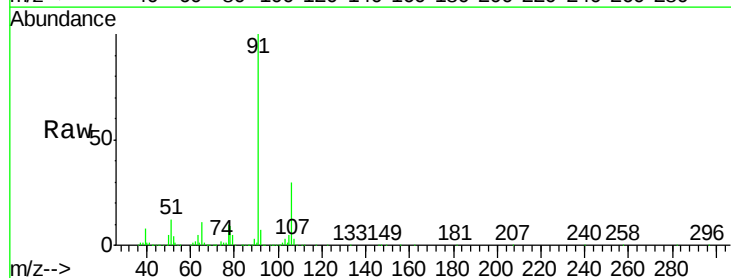
Acq: 1 Jun 2018 11:33

Tgt Ion: 91 Resp: 4186385

Ion Ratio Lower Upper

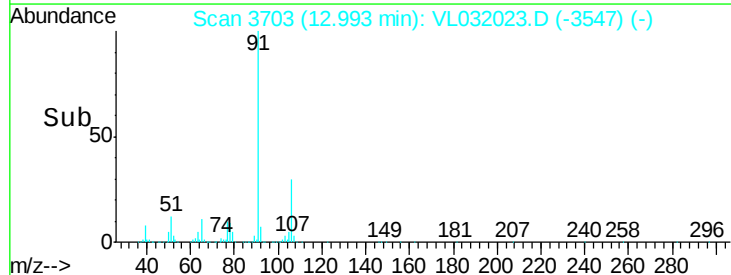
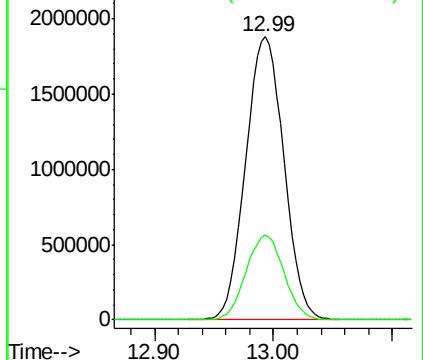
91 100

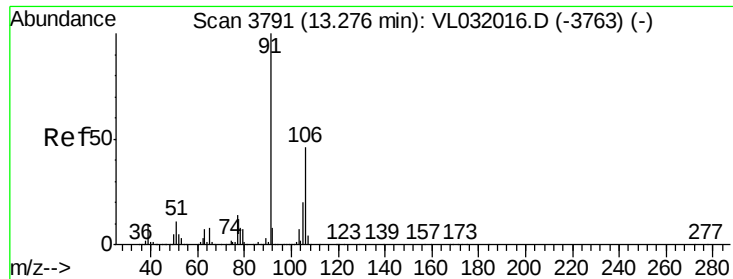
106 30.2 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





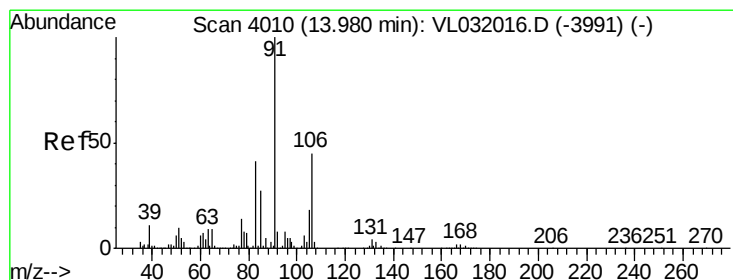
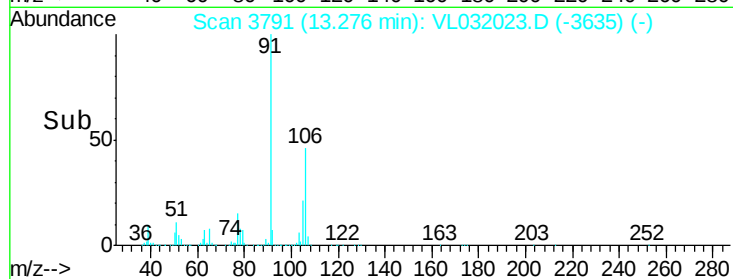
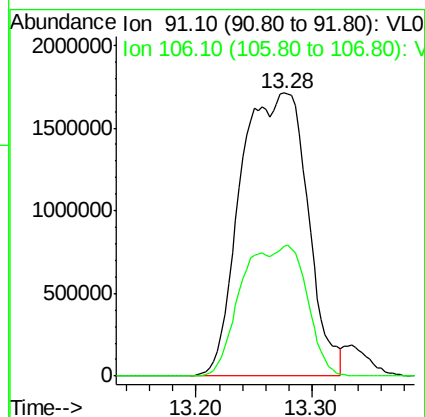
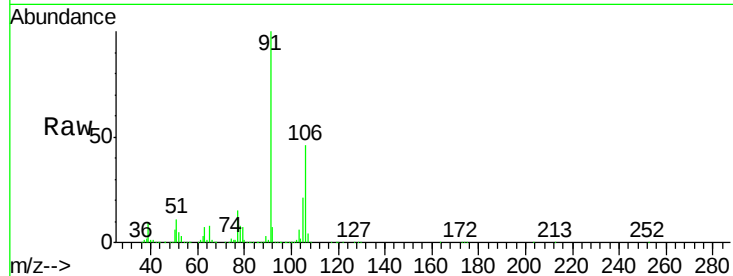
#59
m/p-Xylene
Concen: 20.22 ppbv m
RT: 13.28 min Scan# 3791
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion: 91 Resp: 6860681
Ion Ratio Lower Upper
91 100
106 45.0 35.7 53.5

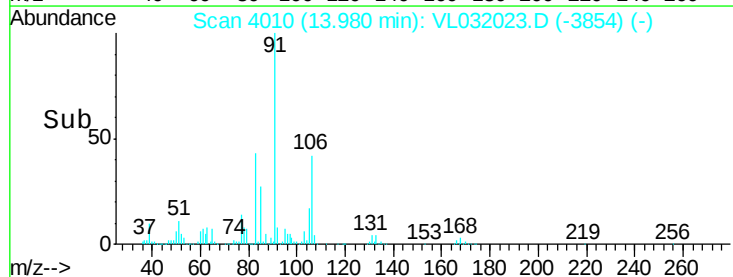
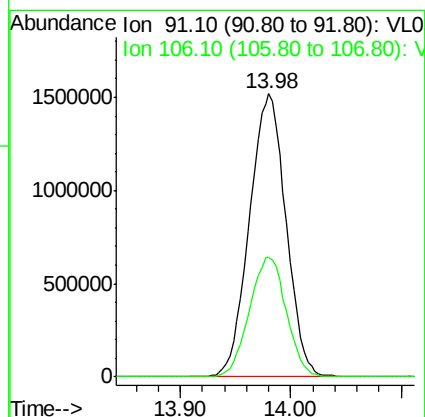
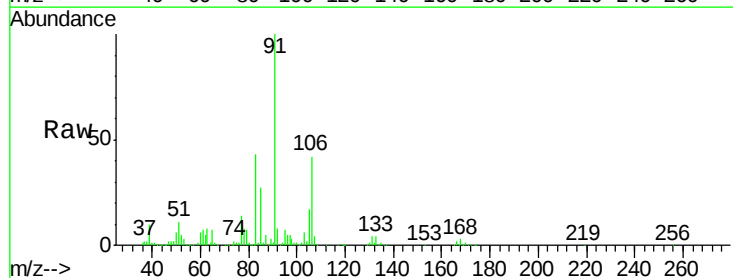
Manual Integrations
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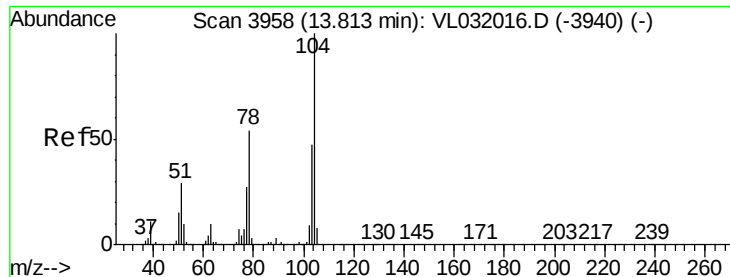
MMDadoda
6/4/2018 10:55:00 AM



#60
o-Xylene
Concen: 10.22 ppbv
RT: 13.98 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion: 91 Resp: 3476511
Ion Ratio Lower Upper
91 100
106 42.8 21.9 65.5





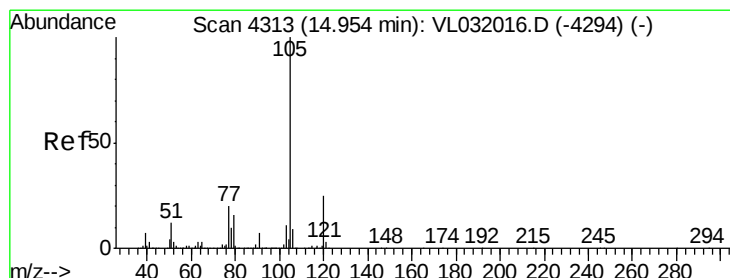
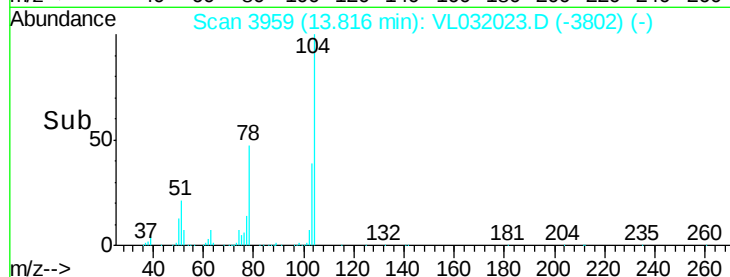
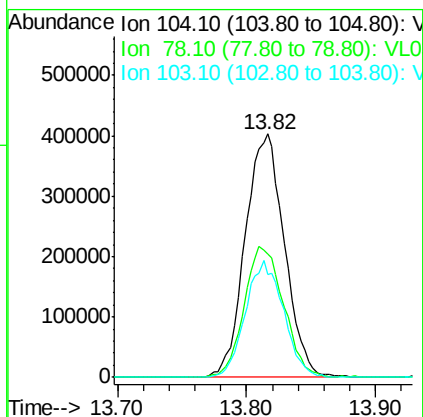
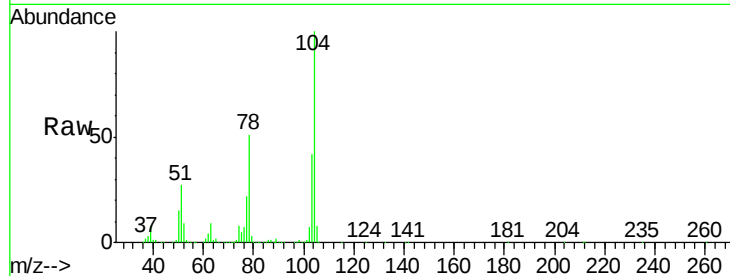
#61
Stvrene
Concen: 12.97 ppbv
RT: 13.82 min Scan# 3959
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.4	43.0	64.4
103	46.6	37.4	56.2

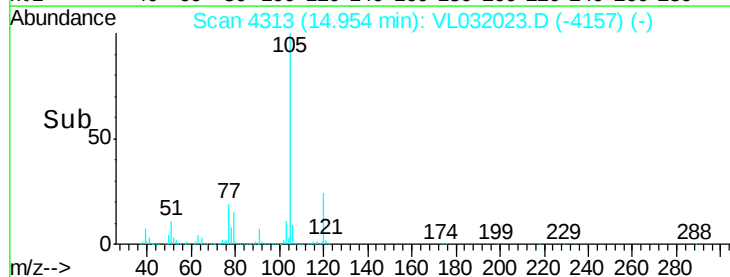
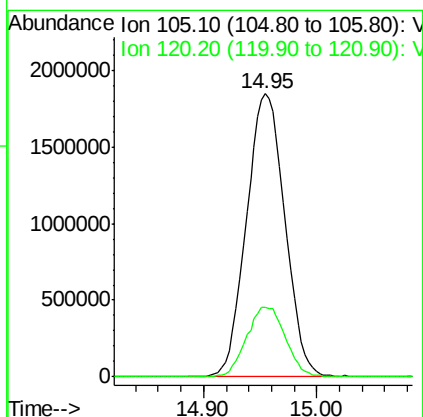
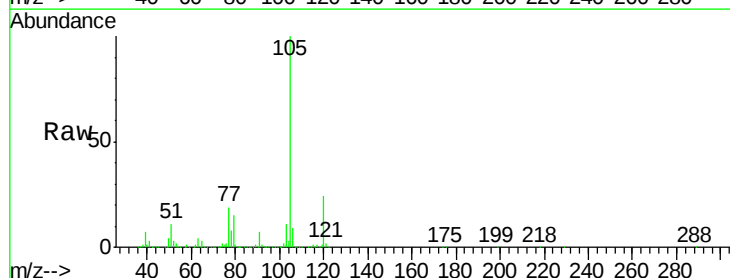
Manual Integrations
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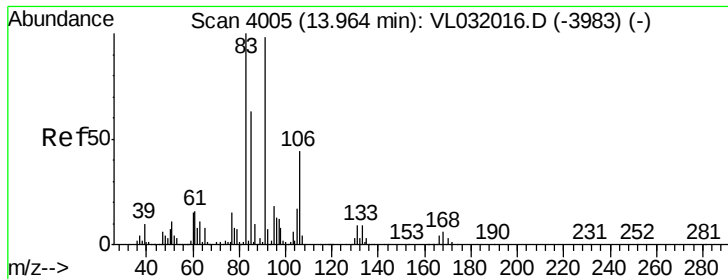
MMDadoda
6/4/2018 10:55:00 AM



#62
Isopropylbenzene
Concen: 10.03 ppbv
RT: 14.95 min Scan# 4313
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8





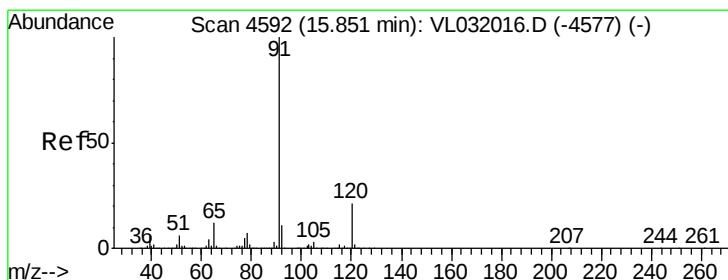
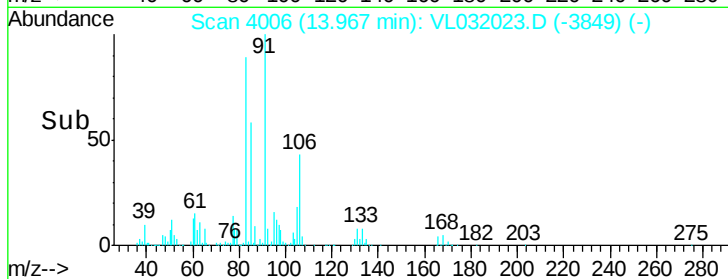
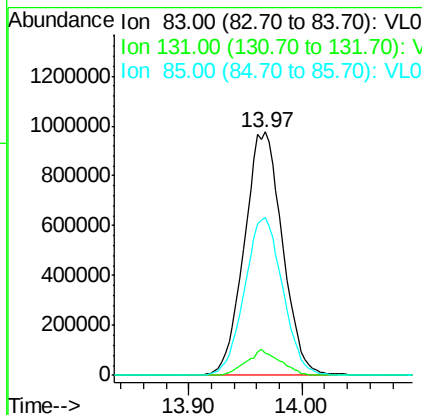
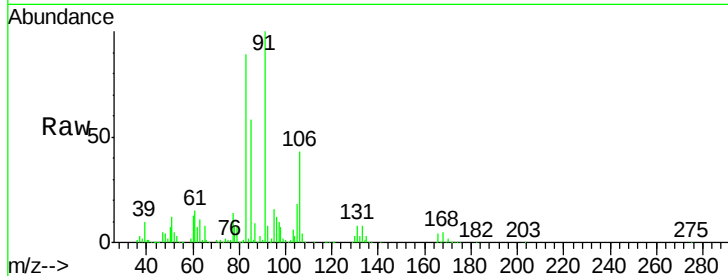
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.68 ppbv
 RT: 13.97 min Scan# 4006
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion: 83 Resp: 2287998
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.7 14.0
 85 64.9 32.2 96.6

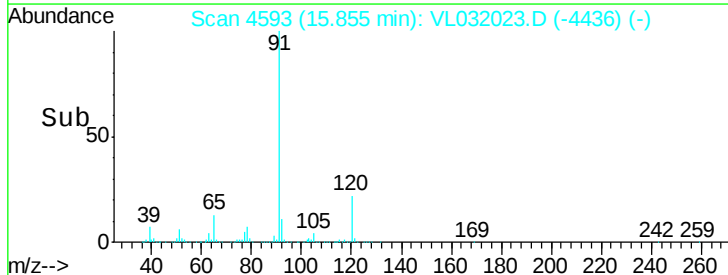
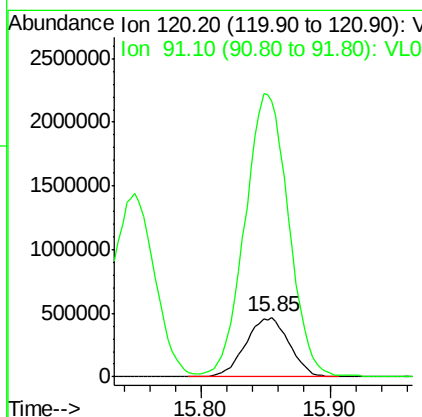
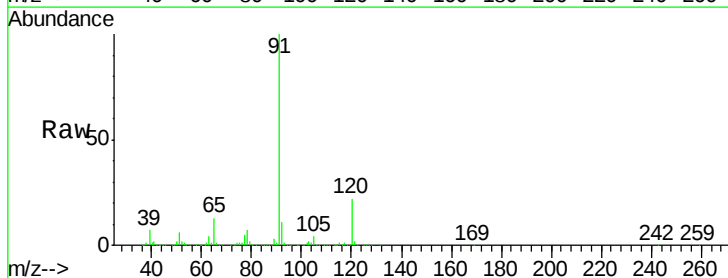
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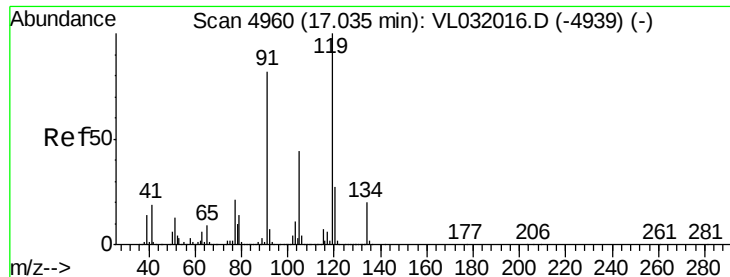
MMDadoda
 6/4/2018 10:55:00 AM



#64
 n-propylbenzene
 Concen: 10.11 ppbv
 RT: 15.85 min Scan# 4593
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion: 120 Resp: 1095457
 Ion Ratio Lower Upper
 120 100
 91 481.0 391.1 586.7





#65

tert-Butylbenzene

Concen: 9.79 ppbv

RT: 17.04 min Scan# 4961

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion:119 Resp: 3714504

Ion Ratio Lower Upper

119 100

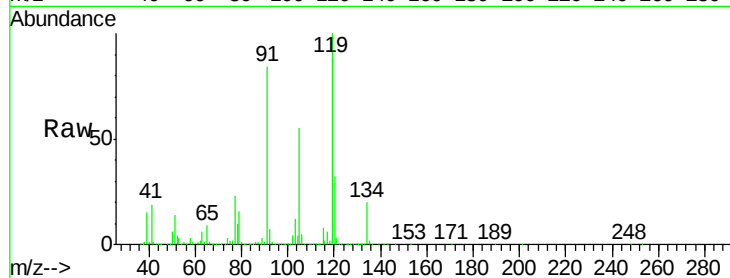
91 85.3 68.2 102.4

134 19.4 15.6 23.4

Manual Integrations
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MMDadoda

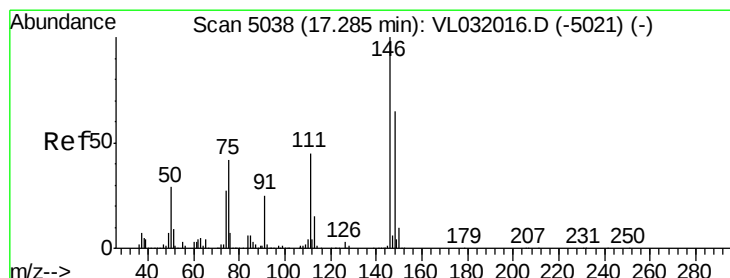
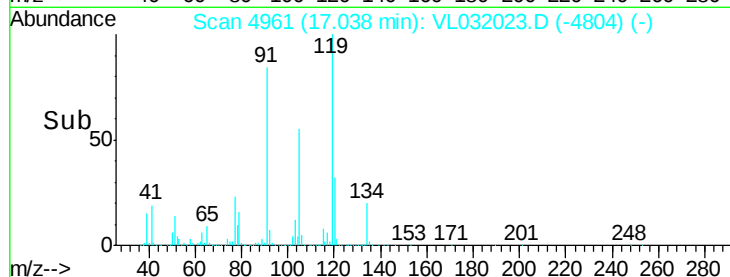
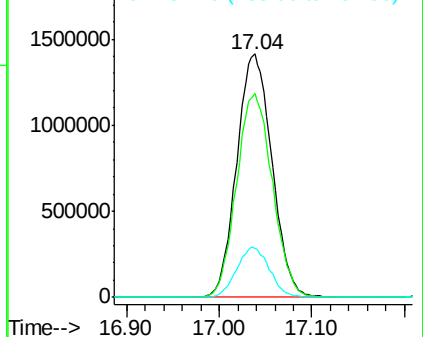
6/4/2018 10:55:00 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.32 ppbv

RT: 17.29 min Scan# 5038

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

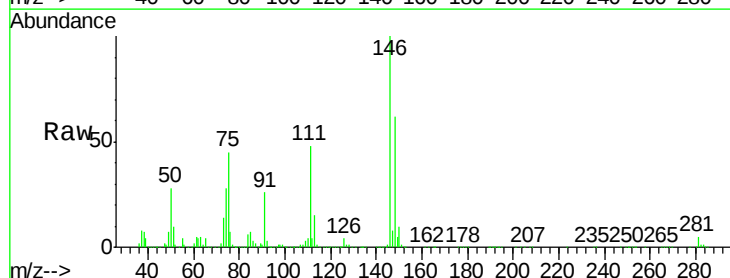
Tgt Ion: 91 Resp: 392688

Ion Ratio Lower Upper

91 100

126 18.0 14.2 21.2

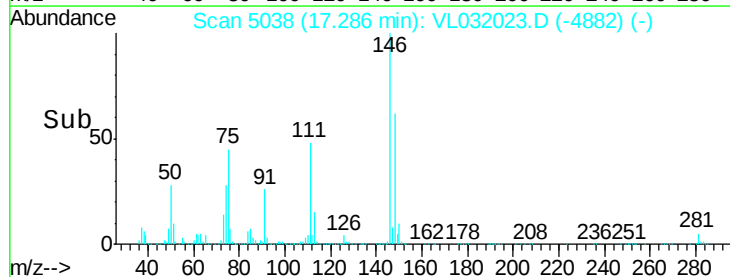
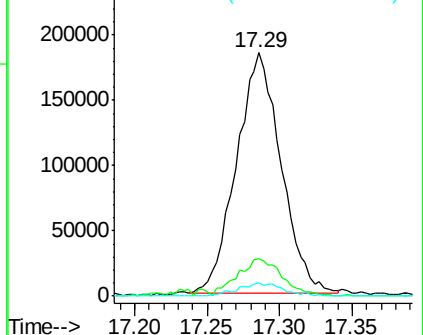
128 5.8 4.5 6.7

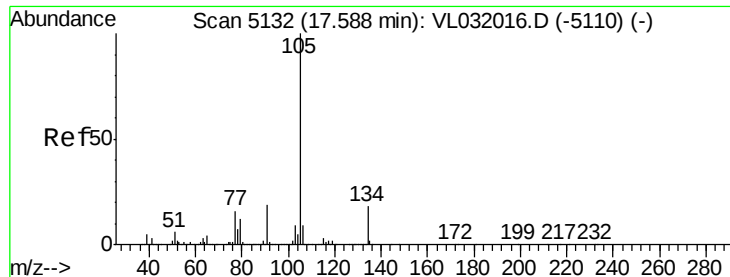


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





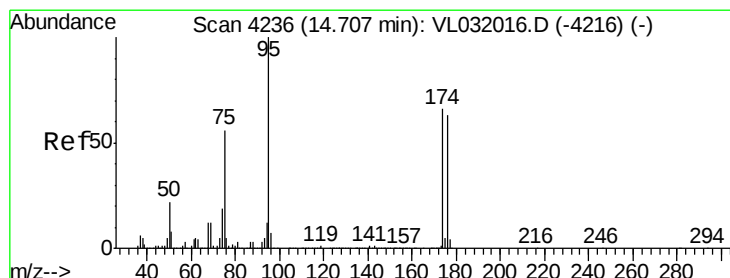
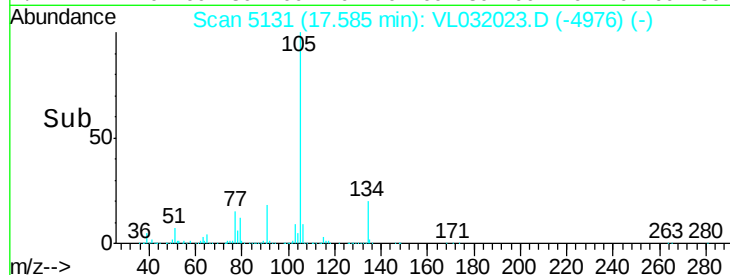
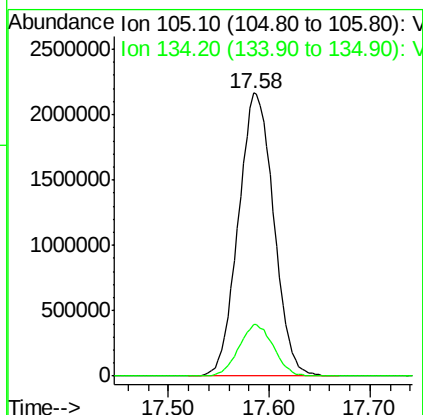
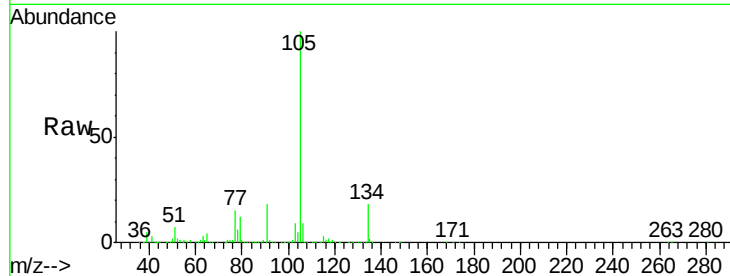
#67
 sec-Butylbenzene
 Concen: 9.54 ppbv
 RT: 17.58 min Scan# 5131
 Delta R.T. -0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion: 105 Resp: 5248554
 Ion Ratio Lower Upper
 105 100
 134 17.9 14.4 21.6

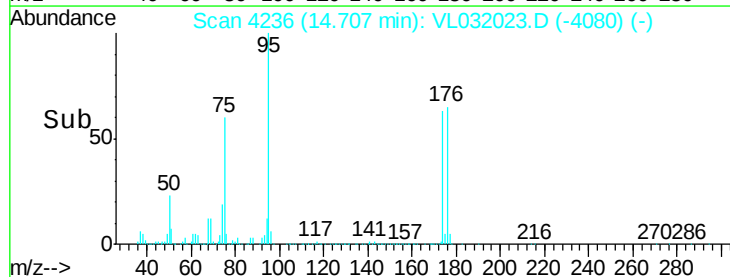
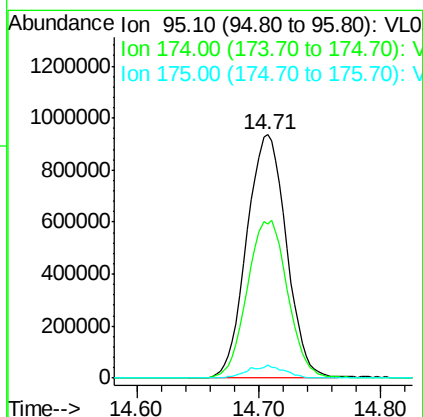
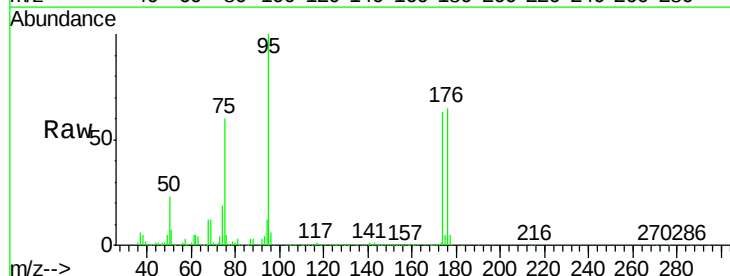
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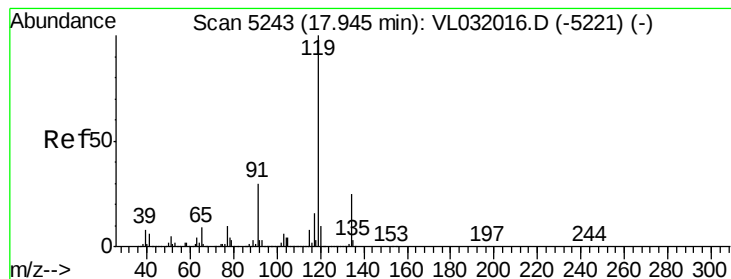
MMDadoda
 6/4/2018 10:55:00 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.90 ppbv
 RT: 14.71 min Scan# 4236
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion: 95 Resp: 2104597
 Ion Ratio Lower Upper
 95 100
 174 66.1 53.2 79.8
 175 4.9 3.7 5.5





#69

p-Isopropyltoluene

Concen: 9.96 ppbv

RT: 17.94 min Scan# 5243

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 119 Resp: 4247793

Ion Ratio Lower Upper

119 100

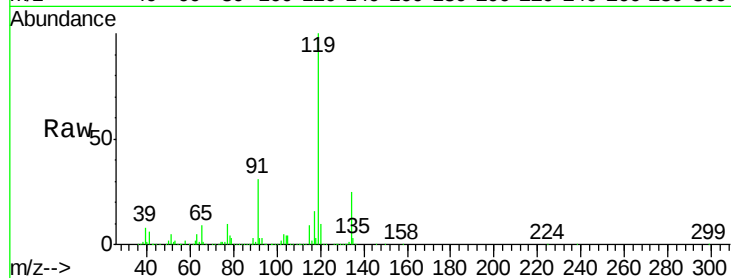
134 25.0 19.9 29.9

91 30.7 24.1 36.1

Manual Integrations
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MMDadoda

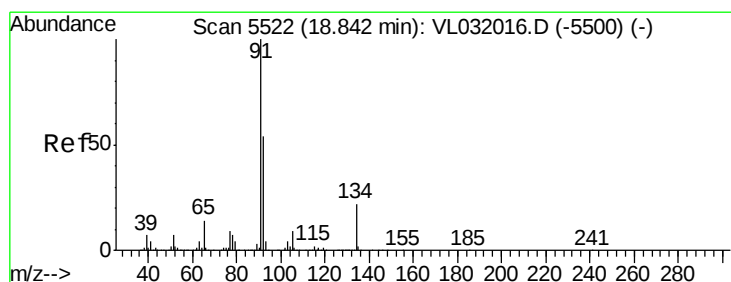
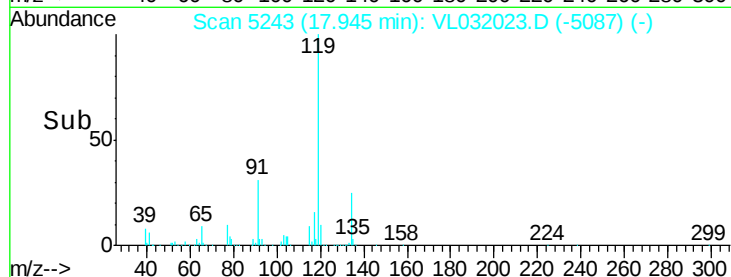
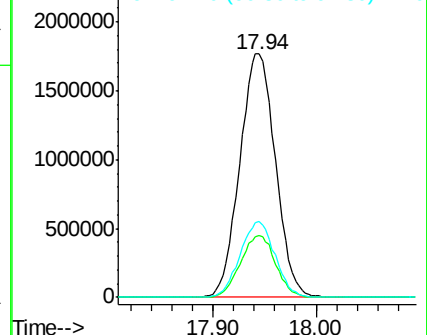
6/4/2018 10:55:00 AM



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.85 ppbv

RT: 18.84 min Scan# 5522

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

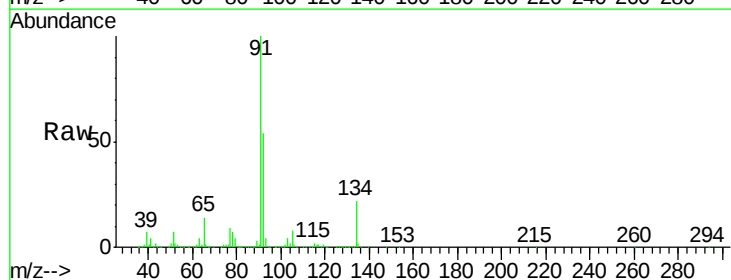
Tgt Ion: 91 Resp: 4324686

Ion Ratio Lower Upper

91 100

92 53.3 42.5 63.7

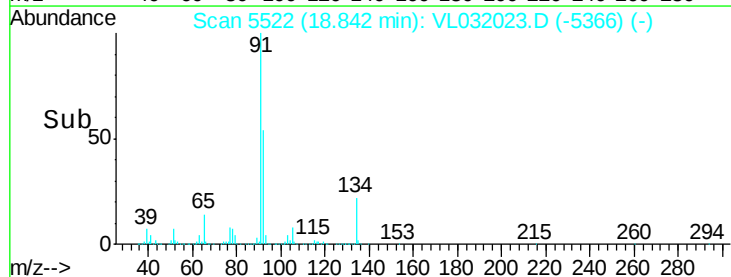
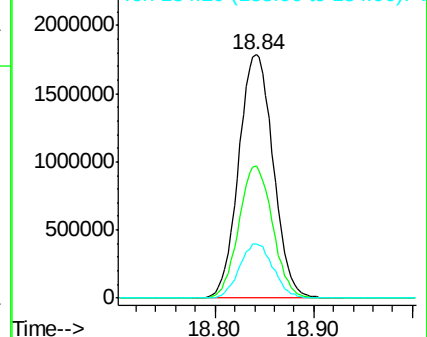
134 21.9 17.4 26.2

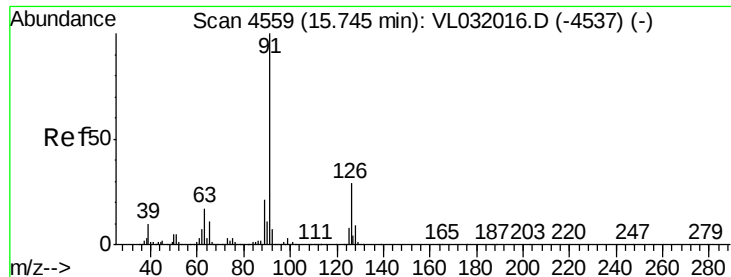


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.32 ppbv

RT: 15.75 min Scan# 4560

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion: 91 Resp: 3291261

Ion Ratio Lower Upper

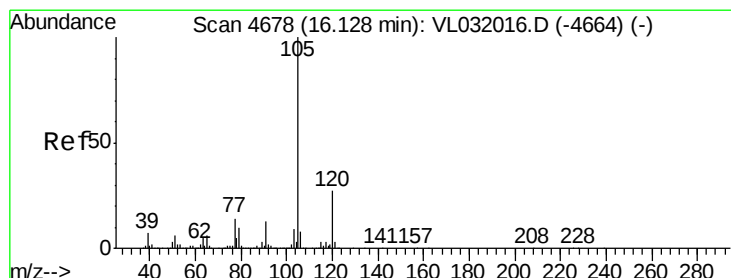
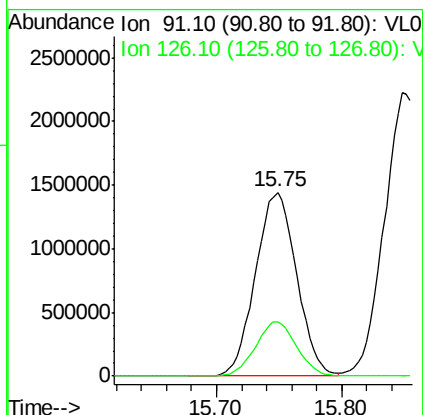
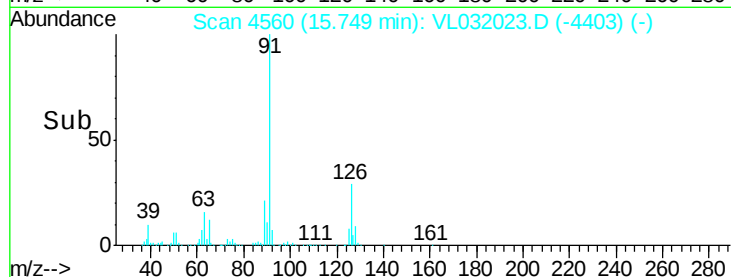
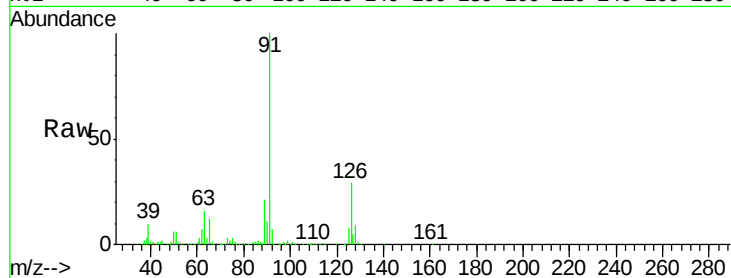
91 100

126 29.6 11.7 46.7

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6/4/2018 10:55:00 AM



#72

4-Ethyltoluene

Concen: 10.65 ppbv

RT: 16.13 min Scan# 4678

Delta R.T. 0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Tgt Ion: 105 Resp: 3604019

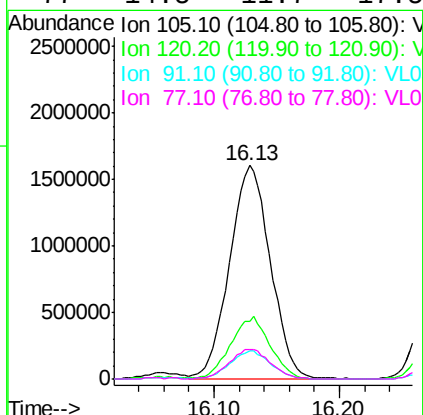
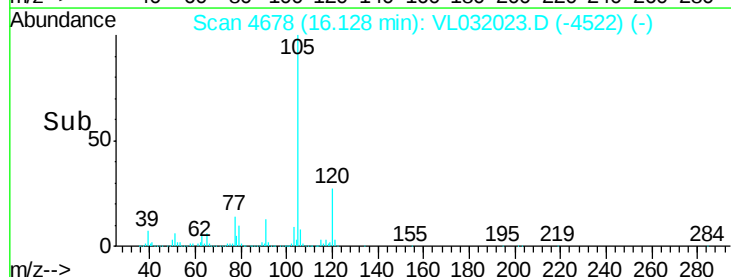
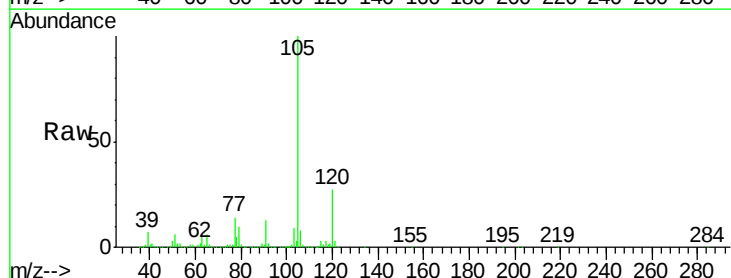
Ion Ratio Lower Upper

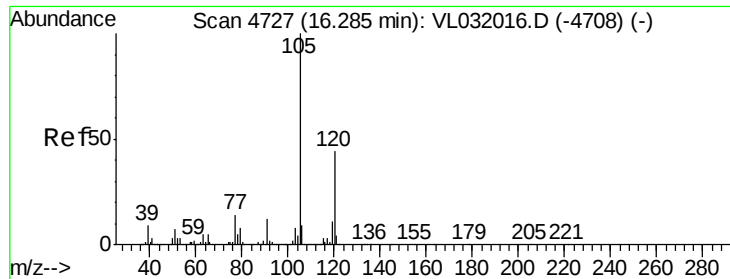
105 100

120 28.5 23.4 35.0

91 13.1 10.7 16.1

77 14.5 11.7 17.5





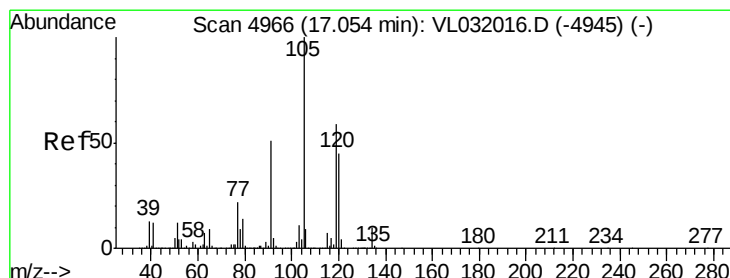
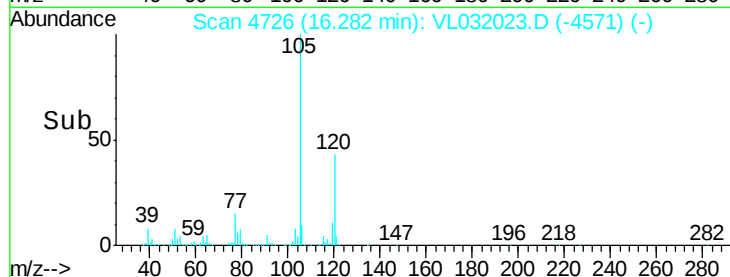
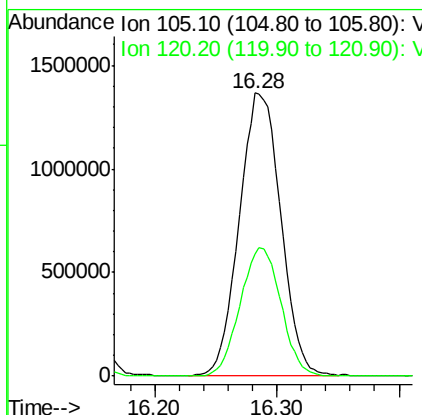
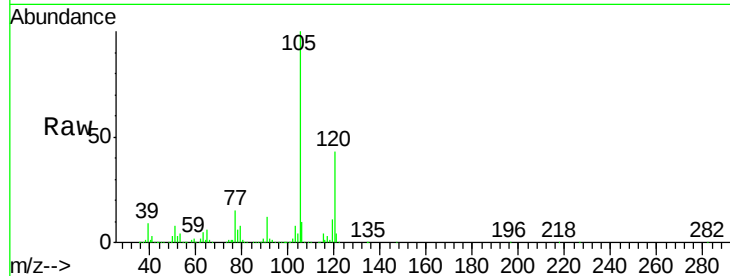
#73
 1,3,5-Trimethylbenzene
 Concen: 10.24 ppbv
 RT: 16.28 min Scan# 4726
 Delta R.T. -0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion:105 Resp: 3199992
 Ion Ratio Lower Upper
 105 100
 120 43.3 35.0 52.4

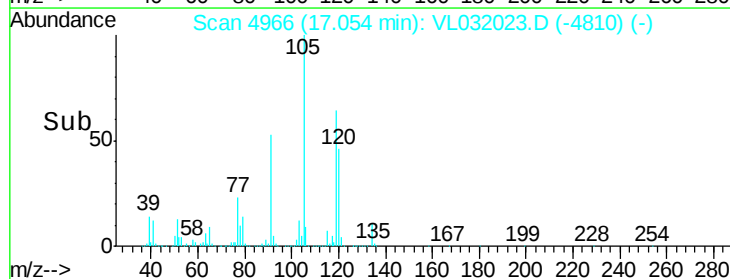
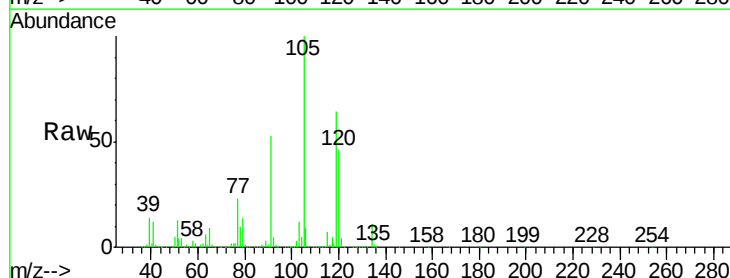
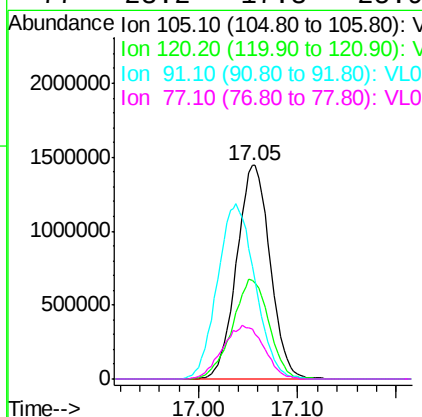
Manual Integrations
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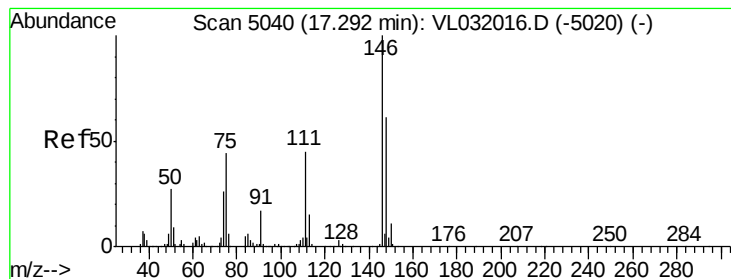
MMDadoda
 6/4/2018 10:55:00 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.66 ppbv
 RT: 17.05 min Scan# 4966
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion:105 Resp: 3399839
 Ion Ratio Lower Upper
 105 100
 120 46.3 36.0 54.0
 91 52.9 41.4 62.0
 77 23.2 17.3 25.9





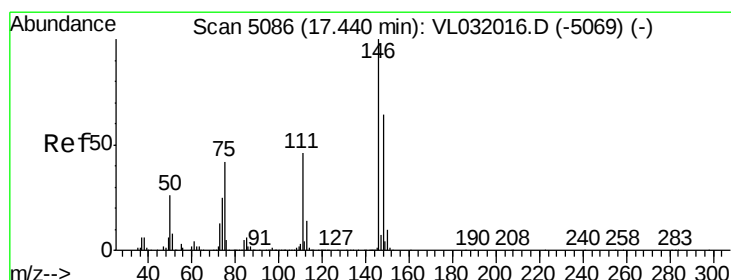
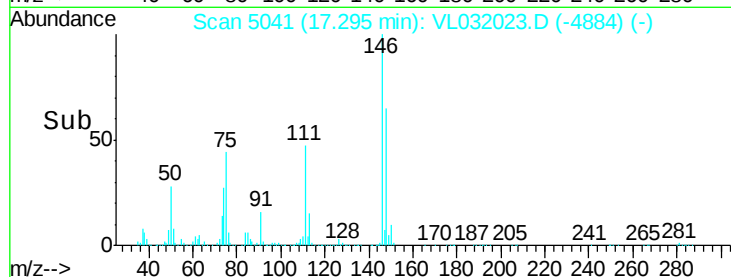
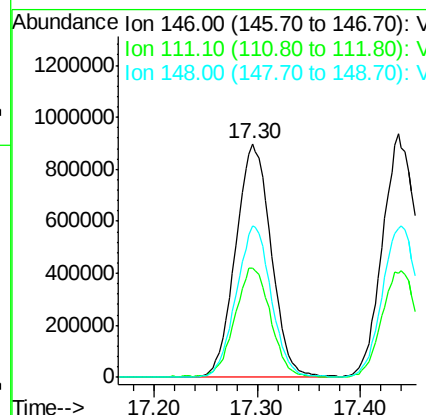
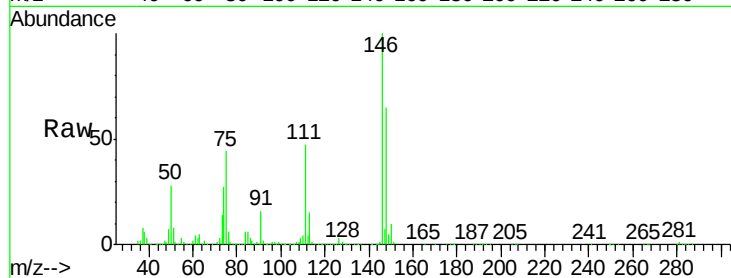
#75
 1,3-Dichlorobenzene
 Concen: 8.90 ppbv
 RT: 17.30 min Scan# 5041
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion:146 Resp: 2151720
 Ion Ratio Lower Upper
 146 100
 111 47.6 23.7 71.1
 148 64.2 32.1 96.5

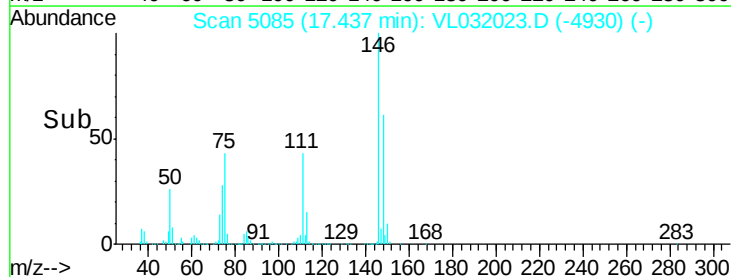
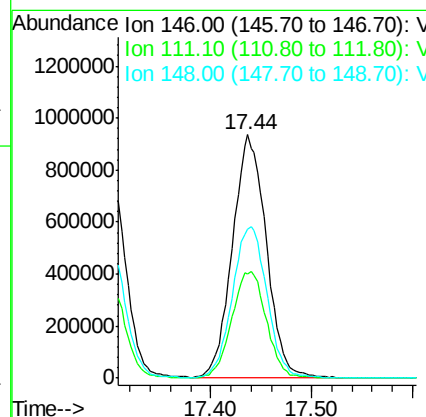
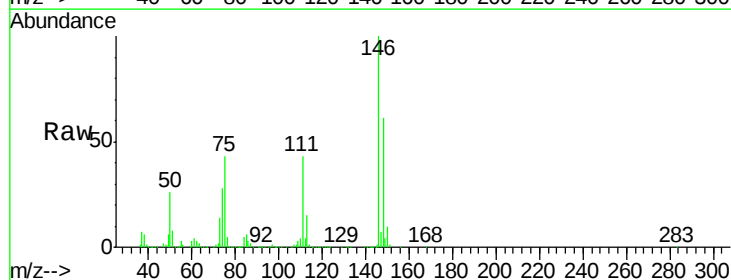
Manual Integrations
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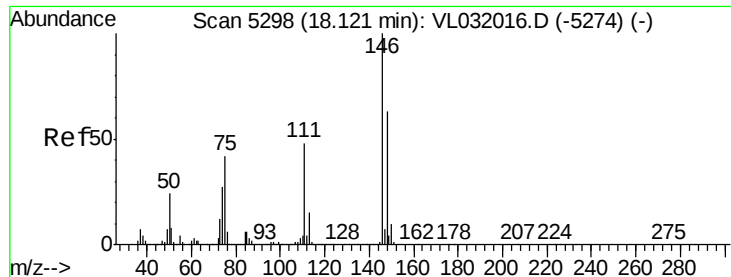
MMDadoda
 6/4/2018 10:55:00 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.41 ppbv
 RT: 17.44 min Scan# 5085
 Delta R.T. -0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Tgt Ion:146 Resp: 2169321
 Ion Ratio Lower Upper
 146 100
 111 45.1 22.4 67.0
 148 64.1 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 9.07 ppbv

RT: 18.12 min Scan# 5297

Delta R.T. -0.00 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL053118

Tot Ion:146 Resp: 2076549

Ion Ratio Lower Upper

146 100

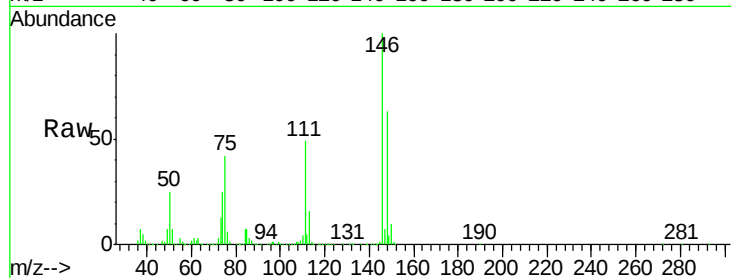
111 47.9 24.2 72.6

148 64.5 32.0 96.2

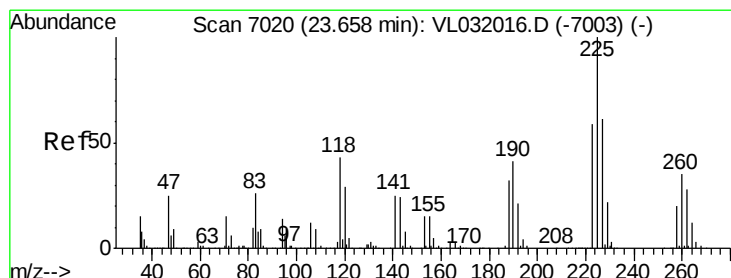
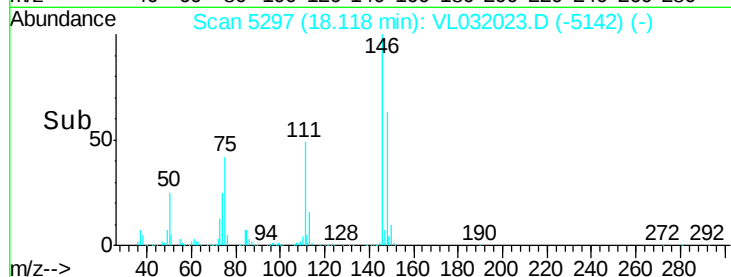
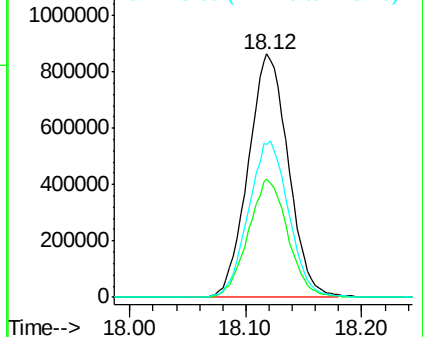
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 12.93 ppbv

RT: 23.67 min Scan# 7023

Delta R.T. 0.01 min

Lab File: VL032023.D

Acq: 1 Jun 2018 11:33

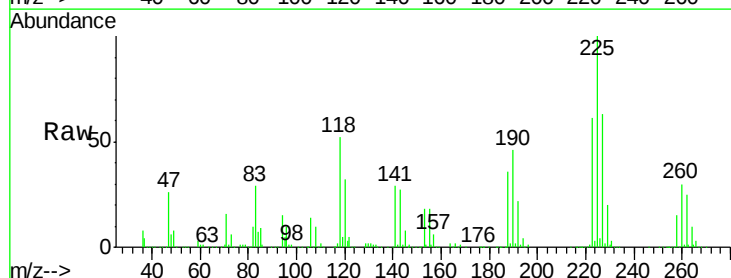
Tgt Ion:225 Resp: 1173692

Ion Ratio Lower Upper

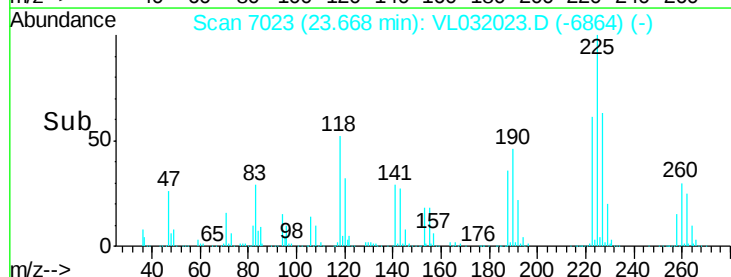
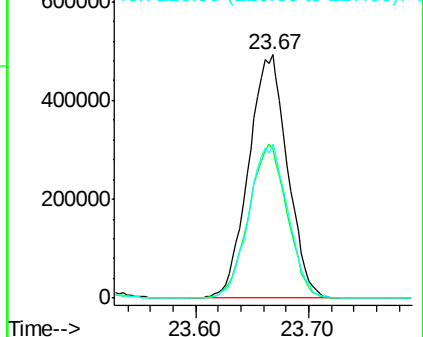
225 100

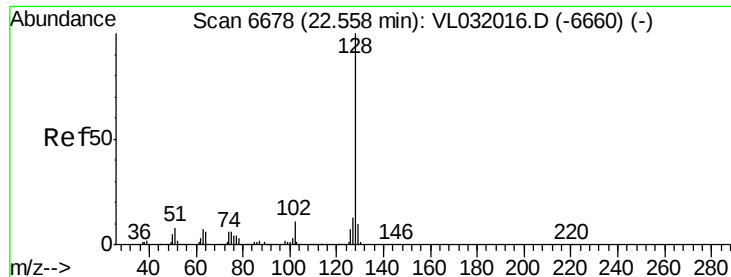
223 62.6 49.4 74.2

227 63.7 51.2 76.8



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





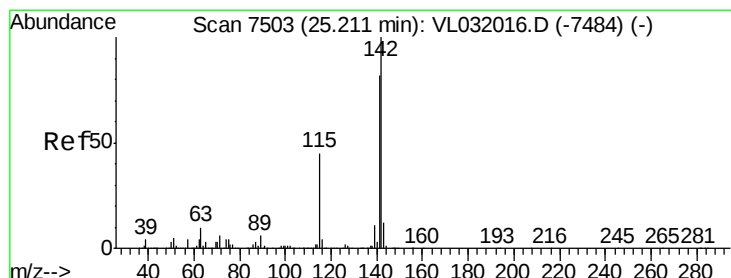
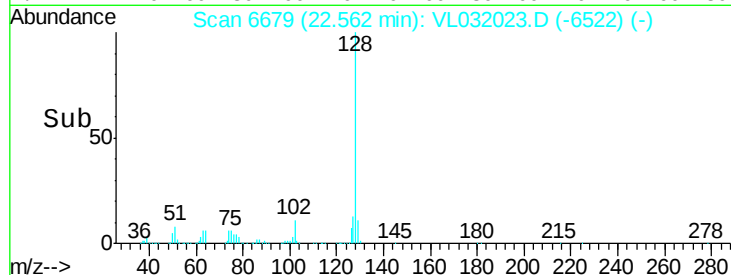
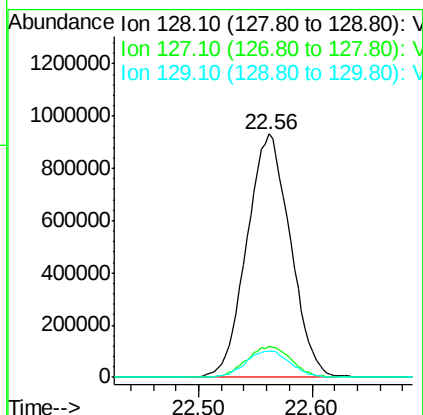
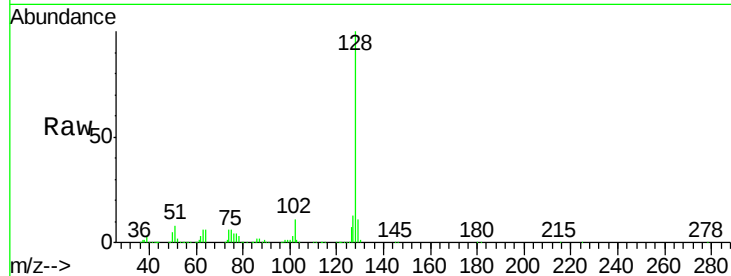
#79
Naphthalene
Concen: 12.48 ppbv
RT: 22.56 min Scan# 6679
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL053118

Tot Ion:128 Resp: 2487548
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 10.7 8.2 12.2

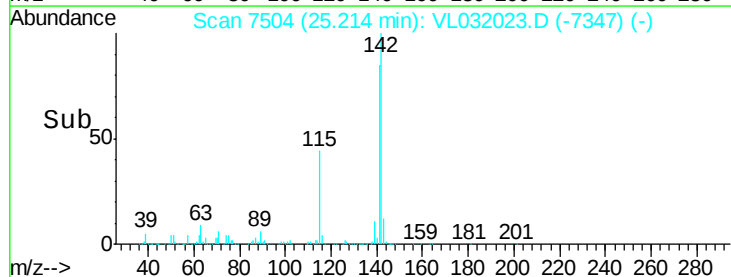
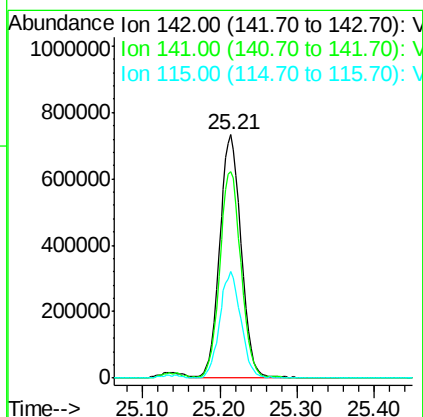
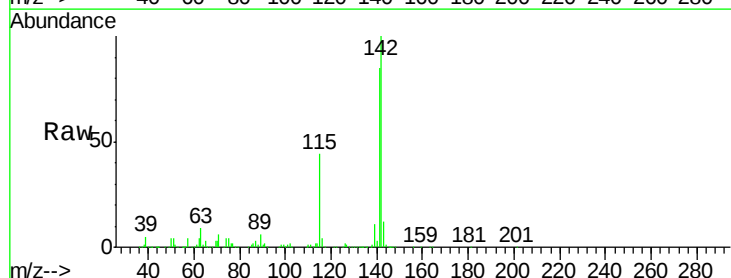
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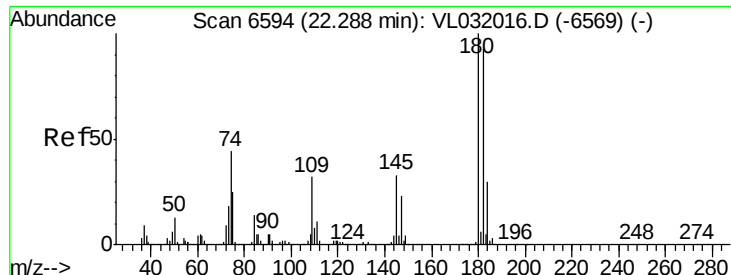
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#80
Naphthalene,2-methyl-
Concen: 28.89 ppbv
RT: 25.21 min Scan# 7504
Delta R.T. 0.00 min
Lab File: VL032023.D
Acq: 1 Jun 2018 11:33

Tgt Ion:142 Resp: 1420811
Ion Ratio Lower Upper
142 100
141 84.1 67.4 101.2
115 43.0 35.3 52.9





#81
 1,2,4-Trichlorobenzene
 Concen: 11.25 ppbv
 RT: 22.29 min Scan# 6594
 Delta R.T. 0.00 min
 Lab File: VL032023.D
 Acq: 1 Jun 2018 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL053118

Tot Ion:	180	Resp:	1316293
Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.8	116.6
184	30.5	24.9	37.3

Manual Integrations
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 6/4/2018 10:55:00 AM

