

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034048.D
 Acq On : 30 Jul 2019 2:07
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:33 AM

Quant Time: Jul 30 05:15:17 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30

QLast Update : Tue Jul 30 05:02:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1233065	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4274449	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3295100m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2522016	9.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	2379147	9.184	ppbv 100
3) Chlorodifluoromethane	2.99	51	1525346	9.861	ppbv 100
4) Chloromethane	3.14	50	964741	10.607	ppbv 100
5) Vinyl Chloride	3.26	62	1060616	10.485	ppbv 100
6) Bromomethane	3.48	94	721909	11.766	ppbv 100
7) Chloroethane	3.57	64	445218	11.907	ppbv 100
8) Dichlorotetrafluoroethane	3.19	85	2723635	10.585	ppbv 100
9) Propene	3.01	41	570697	10.035	ppbv 100
10) Heptane	8.20	43	1374946	10.008	ppbv 100
11) Trichlorofluoromethane	3.97	101	3118729	10.432	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1576393	7.924	ppbv 100
13) Ethanol	3.62	45	168516m	9.431	ppbv
14) Bromoethene	3.76	108	846881	10.904	ppbv 100
15) Acetone	3.87	43	2093529	9.702	ppbv 100
16) 1,3-Butadiene	3.34	39	968238	12.403	ppbv 100
17) tert-Butyl alcohol	4.32	59	1519423	9.244	ppbv 100
18) 1,1-Dichloroethene	4.31	96	767080	8.605	ppbv 100
19) Isopropyl Alcohol	3.99	45	1534843	10.582	ppbv 99
20) Methylene Chloride	4.37	84	636734	7.164	ppbv 100
21) Allyl Chloride	4.44	41	1099294	8.633	ppbv 100
22) trans-1,2-Dichloroethene	4.92	96	784508	9.238	ppbv 100
23) Vinyl Acetate	5.12	43	2001452	9.863	ppbv 100
24) 1,1-Dichloroethane	5.05	63	1672178	9.203	ppbv 100
25) Ethyl Acetate	5.72	43	2653599	9.472	ppbv 100
26) Hexane	5.74	57	1209849	9.426	ppbv 100
27) Carbon Disulfide	4.58	76	1900819	8.795	ppbv 100
28) Methyl tert-Butyl Ether	5.07	73	2141249	9.886	ppbv 100
29) Chloroform	5.80	83	2106053	8.746	ppbv 100
30) Cyclohexane	7.20	84	1313388	12.496	ppbv 100
31) cis-1,2-Dichloroethene	5.60	61	1254930	10.161	ppbv 100
32) 1,1,1-Trichloroethane	6.57	97	2062698	8.454	ppbv 100
34) 2-Butanone	5.29	43	1599430	7.549	ppbv 100
35) Carbon Tetrachloride	7.08	117	2181699	6.758	ppbv 100
36) Benzene	6.96	78	2362069	7.616	ppbv 100
37) 1,2-Dichloroethane	6.37	62	1655660	7.167	ppbv 100
38) Trichloroethene	7.92	130	1041951	7.377	ppbv 100
39) 1,2-Dichloropropane	7.69	63	938736m	8.008	ppbv
40) 1,4-Dioxane	7.91	88	368495	6.894	ppbv 100
41) Tetrahydrofuran	6.10	42	832104	8.090	ppbv 100
42) Bromodichloromethane	7.87	83	2257993	7.308	ppbv 100
43) Methyl Methacrylate	8.09	69	962501	8.199	ppbv 100

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 05:15:17 2019
 QLast Update : Tue Jul 30 05:02:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3993656	7.432	ppbv	100
45) t-1,3-Dichloropropene	9.37	75	1338255	8.811	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	1501570	8.482	ppbv	100
47) 1,1,2-Trichloroethane	9.56	97	1041013	7.141	ppbv	100
48) Dibromochloromethane	10.40	129	2682035	9.138	ppbv	100
49) Bromoform	13.15	173	1826569	7.679	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	2376489	7.621	ppbv	100
51) 2-Hexanone	10.22	43	2718658	10.199	ppbv	100
52) Tetrachloroethene	11.32	164	985745	7.227	ppbv	100
53) Toluene	9.89	91	2910928	8.243	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1589676	7.435	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.23	131	1302426	8.986	ppbv	100
57) Chlorobenzene	12.25	112	2283096	8.844	ppbv	100
58) Ethyl Benzene	12.81	91	4065681	10.424	ppbv	100
59) m/p-Xylene	13.10	91	6815969m	19.289	ppbv	
60) o-Xylene	13.79	91	3417035	9.638	ppbv	100
61) Styrene	13.63	104	2519630	10.810	ppbv	100
62) Isopropylbenzene	14.78	105	4541331	8.869	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2361346	8.582	ppbv	100
64) n-propylbenzene	15.67	120	1167303	8.814	ppbv	100
65) tert-Butylbenzene	16.86	119	4049817	9.381	ppbv	100
66) Benzyl Chloride	17.10	91	2269425	10.395	ppbv	100
67) sec-Butylbenzene	17.41	105	5687579	9.335	ppbv	100
69) p-Isopropyltoluene	17.76	119	4681621	9.344	ppbv	100
70) n-Butylbenzene	18.66	91	4918237	9.327	ppbv	100
71) 2-Chlorotoluene	15.56	91	3458042	9.273	ppbv	100
72) 4-Ethyltoluene	15.95	105	4063119	9.458	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3870831	9.770	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3961528	9.031	ppbv	100
75) 1,3-Dichlorobenzene	17.11	146	2358644	8.429	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	2312837	8.781	ppbv	100
77) 1,2-Dichlorobenzene	17.94	146	2217395	8.574	ppbv	100
78) Hexachloro-1,3-Butadiene	23.49	225	1824364	8.083	ppbv	100
79) Naphthalene	22.35	128	3660498	9.910	ppbv	100
80) Naphthalene, 2-methyl-	25.07	142	1181163	8.834	ppbv	100
81) 1,2,4-Trichlorobenzene	22.07	180	2204672	9.233	ppbv	100

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

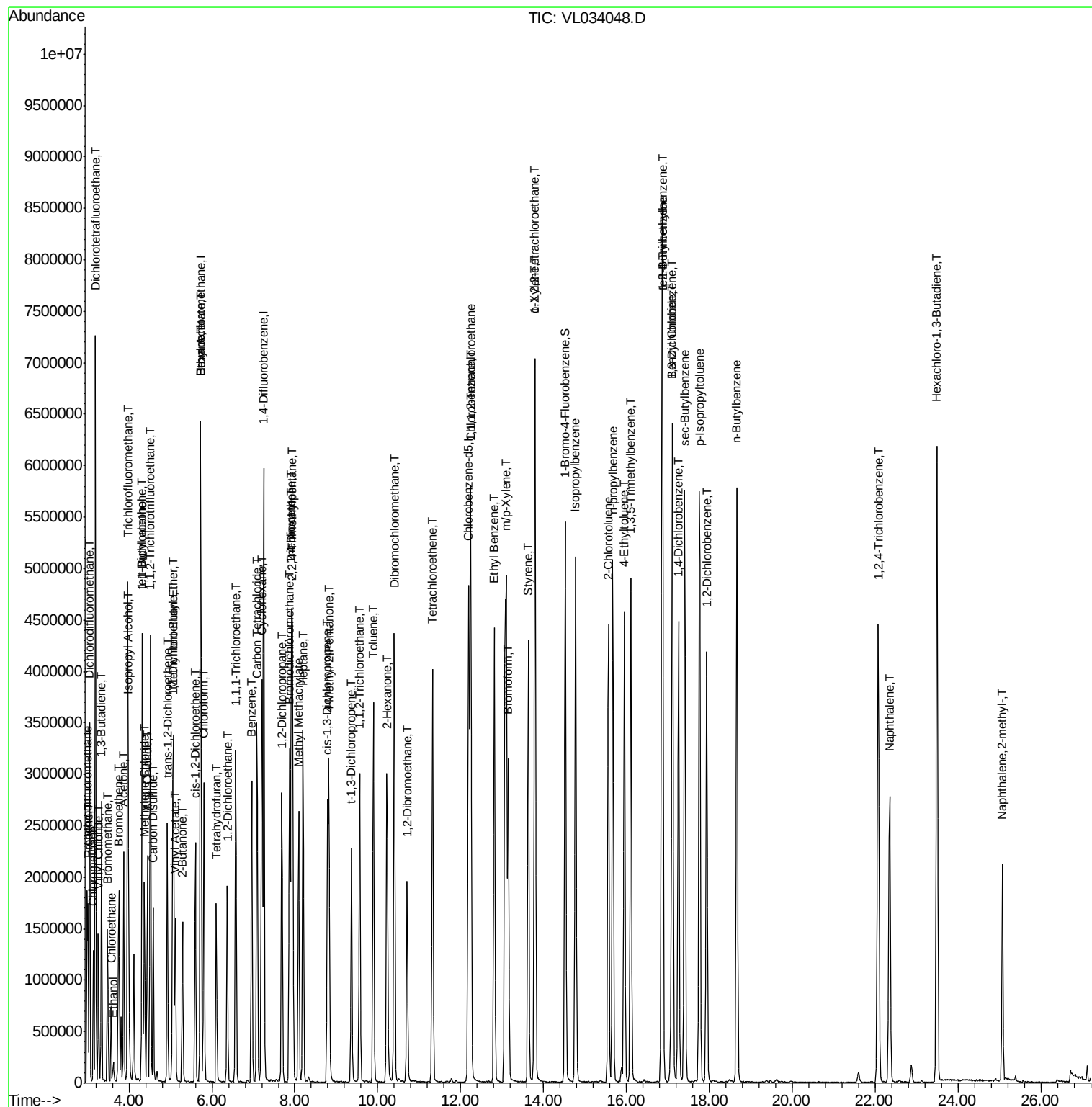
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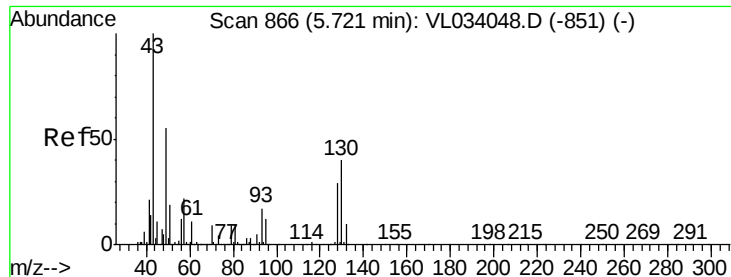
Instrument :
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QLast Update : Tue Jul 30 05:02:48 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1233065

Ion Ratio Lower Upper

49 100

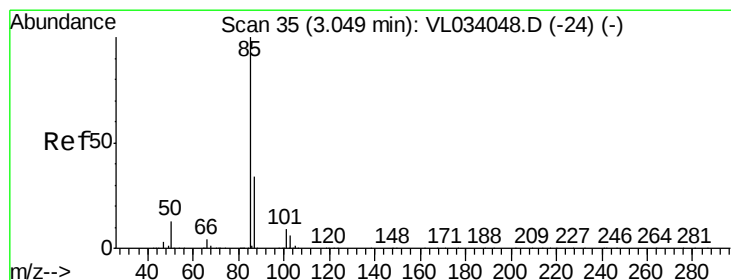
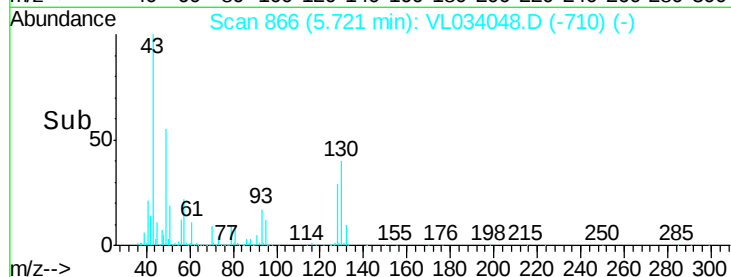
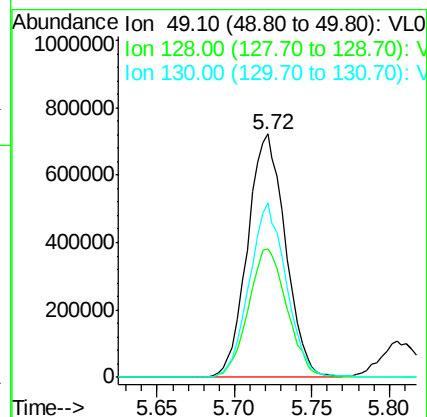
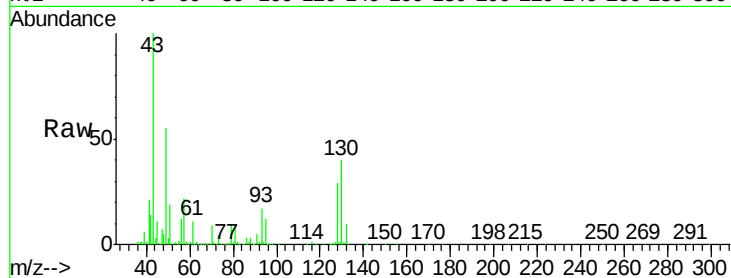
128 54.1 27.0 81.0

130 70.1 35.0 105.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 9.184 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL034048.D

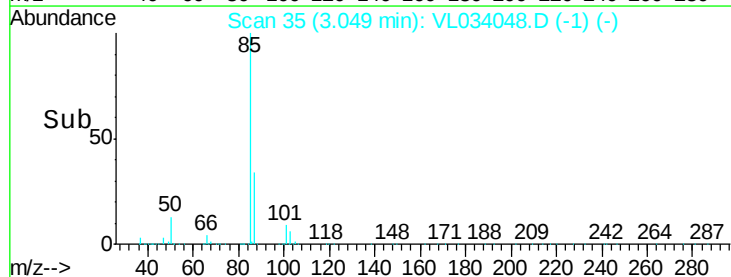
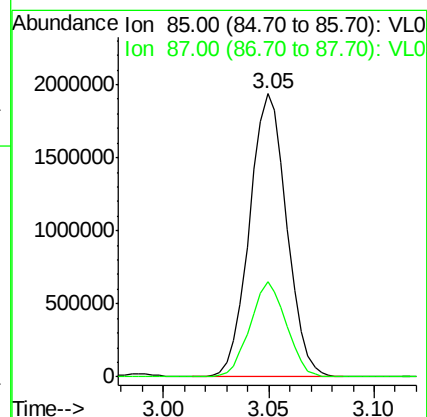
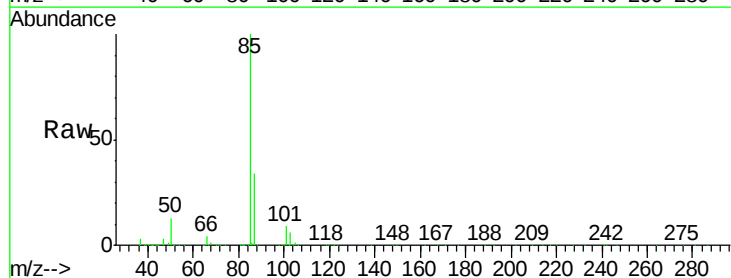
Acq: 30 Jul 2019 2:07

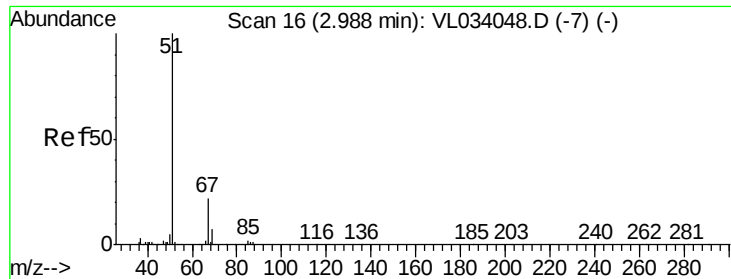
Tgt Ion: 85 Resp: 2379147

Ion Ratio Lower Upper

85 100

87 33.7 27.0 40.4





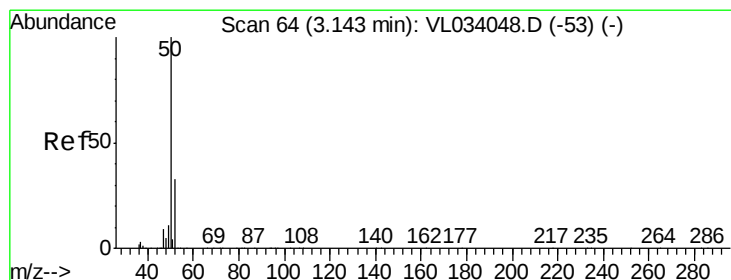
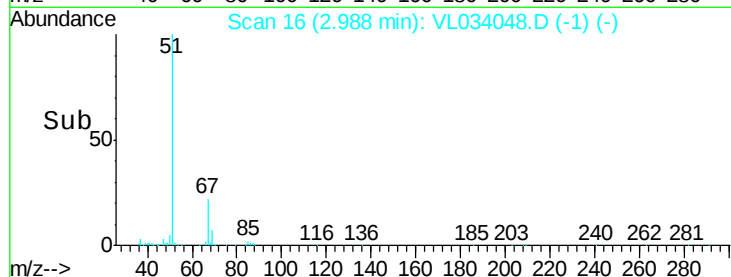
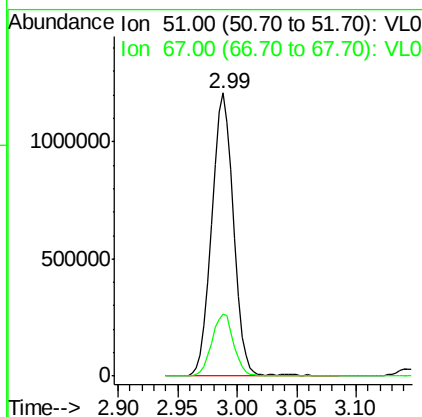
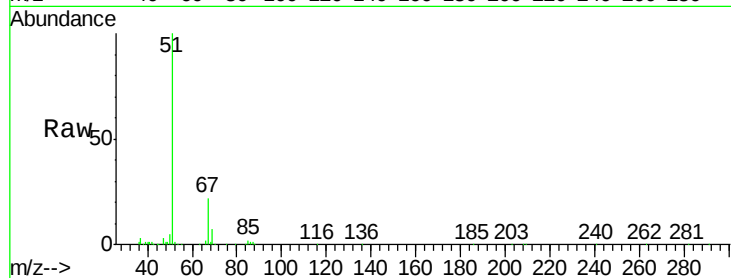
#3
 Chlorodifluoromethane
 Concen: 9.861 ppbv
 RT: 2.99 min Scan# 16
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 51 Resp: 1525346
 Ion Ratio Lower Upper
 51 100
 67 21.7 17.4 26.0

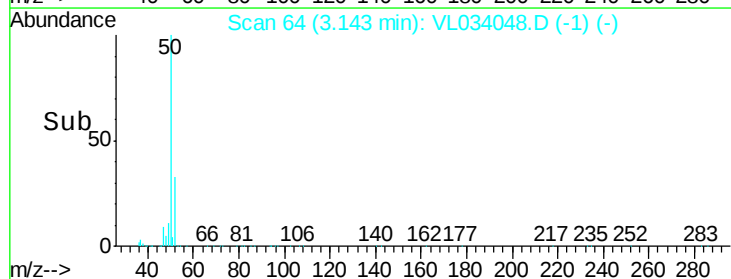
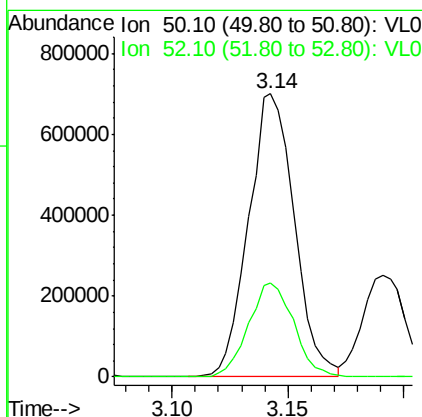
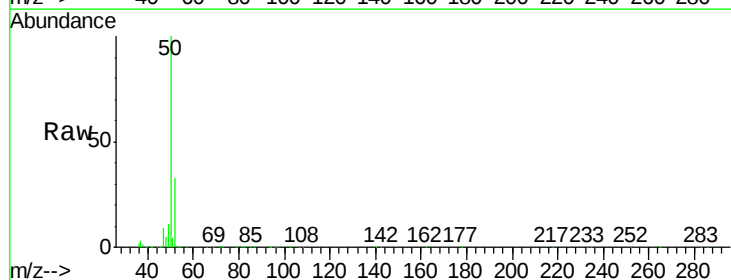
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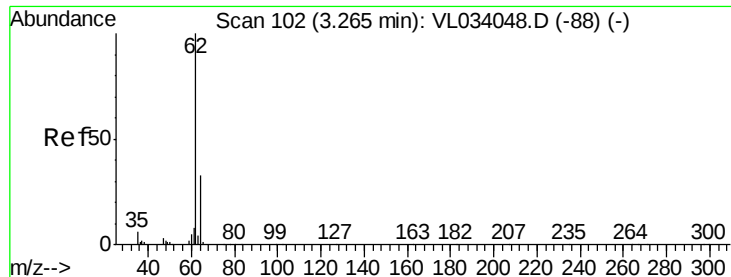
MMDadoda
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#4
 Chloromethane
 Concen: 10.607 ppbv
 RT: 3.14 min Scan# 64
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion: 50 Resp: 964741
 Ion Ratio Lower Upper
 50 100
 52 33.4 26.7 40.1





#5

Vinyl Chloride

Concen: 10.485 ppbv

RT: 3.26 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 1060616

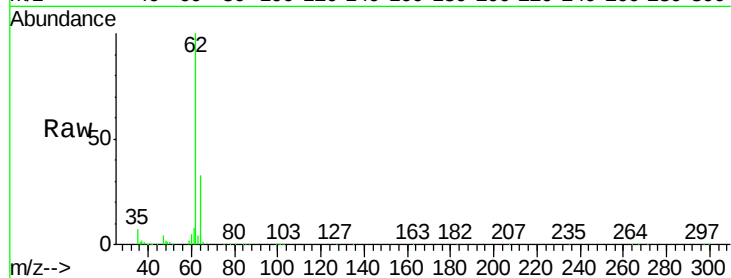
Ion Ratio Lower Upper

62 100

64 33.1 26.5 39.7

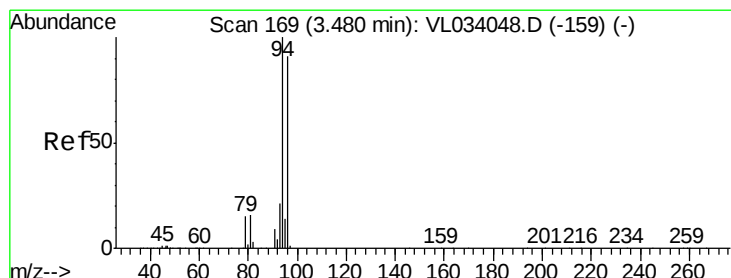
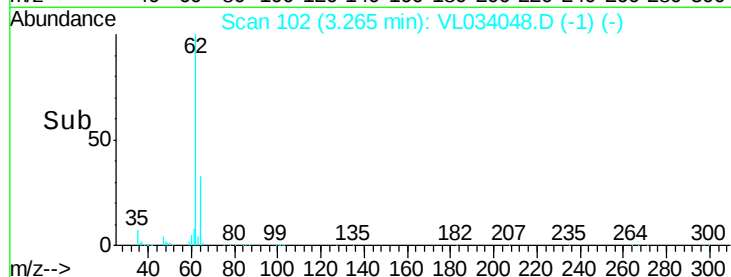
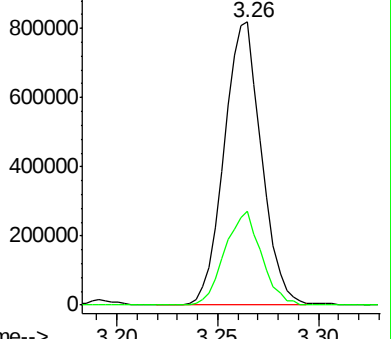
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 11.766 ppbv

RT: 3.48 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL034048.D

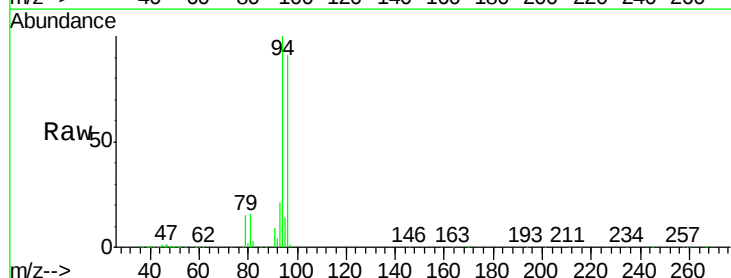
Acq: 30 Jul 2019 2:07

Tgt Ion: 94 Resp: 721909

Ion Ratio Lower Upper

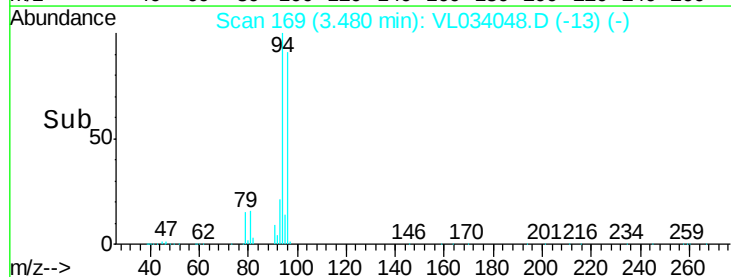
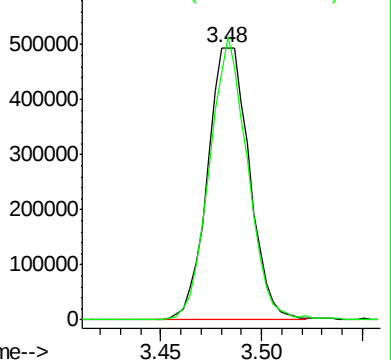
94 100

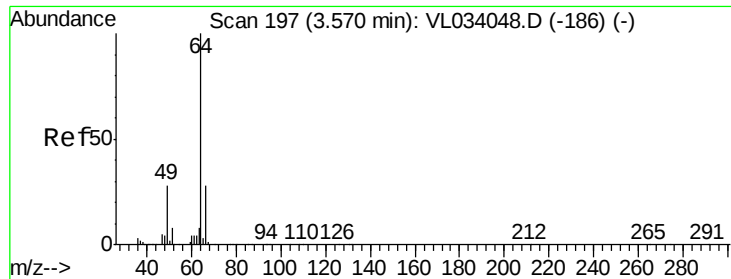
96 90.7 72.6 108.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 11.907 ppbv

RT: 3.57 min Scan# 197

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 445218

Ion Ratio Lower Upper

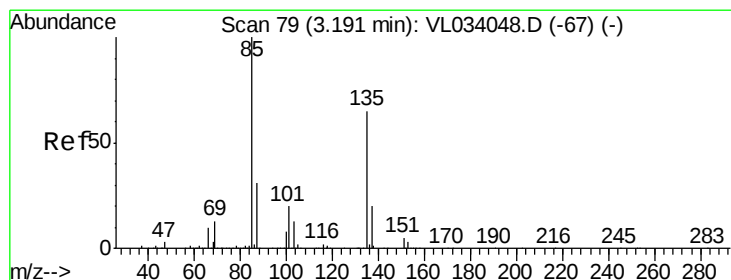
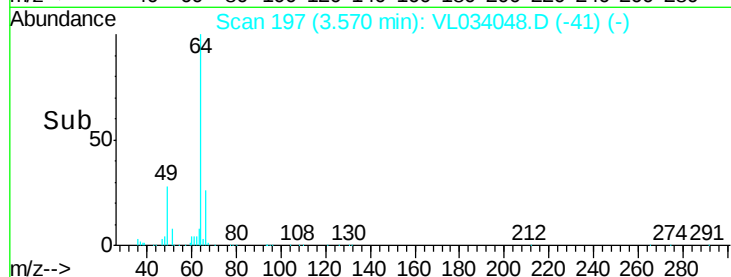
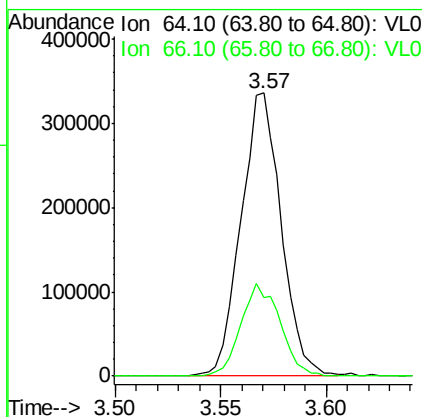
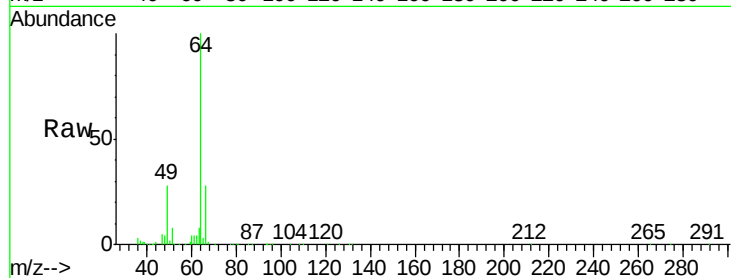
64 100

66 27.5 22.0 33.0

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#8

Dichlorotetrafluoroethane

Concen: 10.585 ppbv

RT: 3.19 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL034048.D

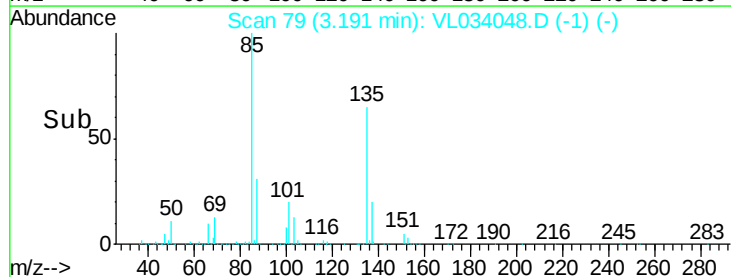
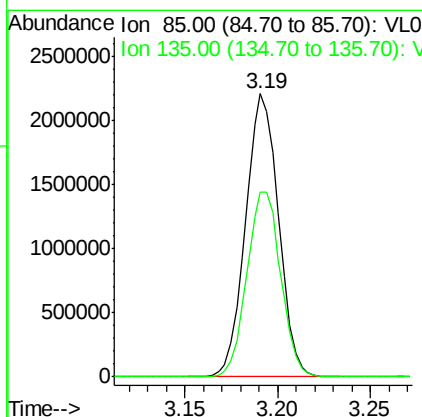
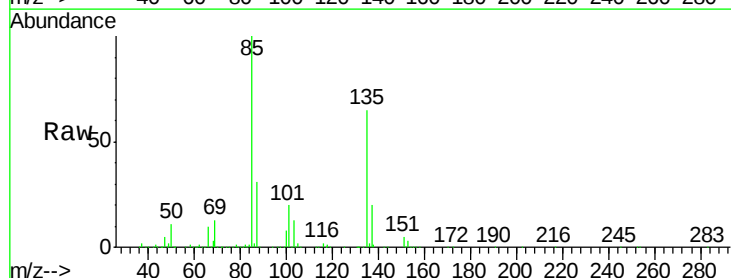
Acq: 30 Jul 2019 2:07

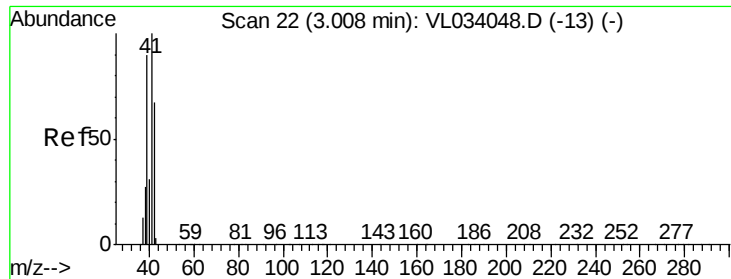
Tgt Ion: 85 Resp: 2723635

Ion Ratio Lower Upper

85 100

135 67.6 54.1 81.1





#9

Propene

Concen: 10.035 ppbv

RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Tot Ion: 41 Resp: 570697

Ion Ratio Lower Upper

41 100

42 69.3 55.4 83.2

Instrument :

MSVOA_L

ClientSampleId :

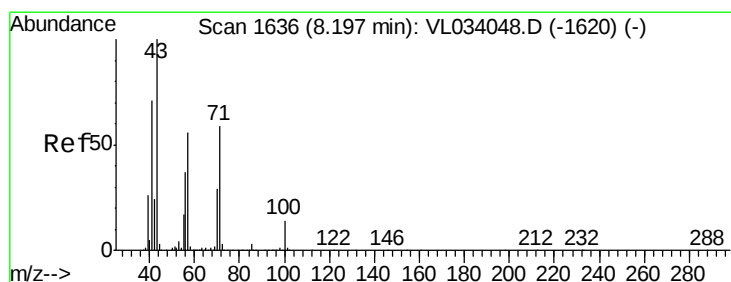
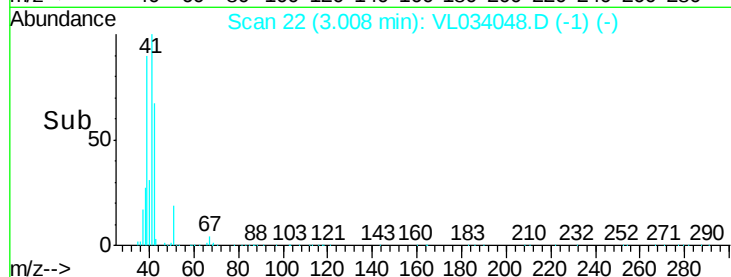
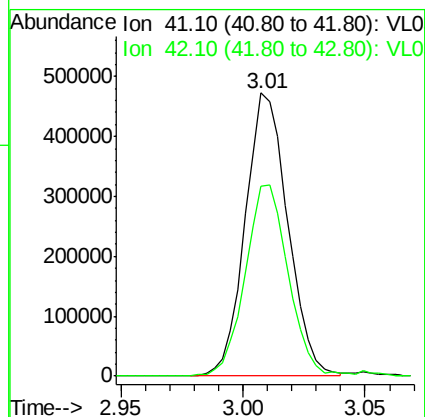
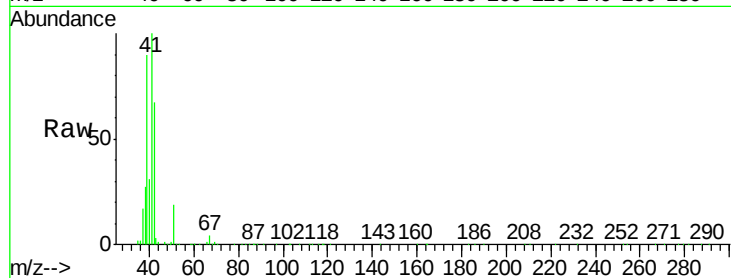
VSTDICCC010

Manual Integrations

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#10

Heptane

Concen: 10.008 ppbv

RT: 8.20 min Scan# 1636

Delta R.T. 0.00 min

Lab File: VL034048.D

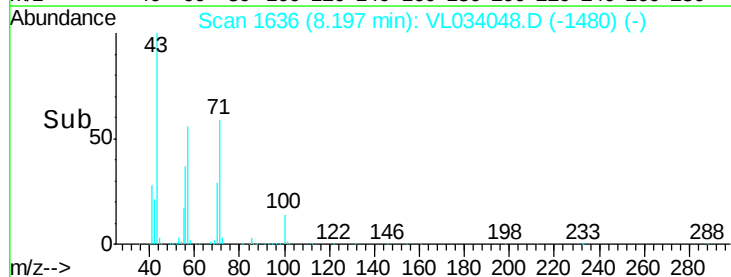
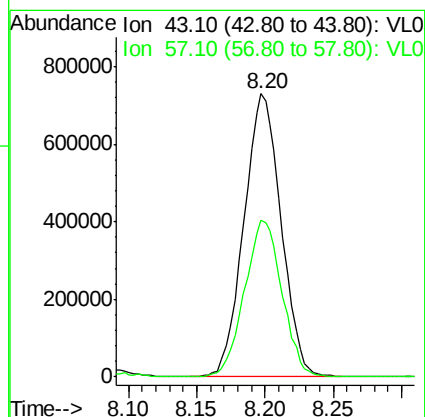
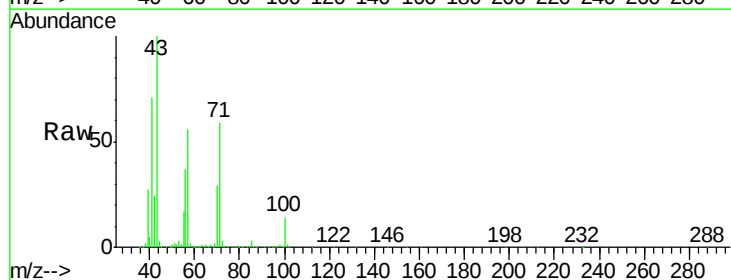
Acq: 30 Jul 2019 2:07

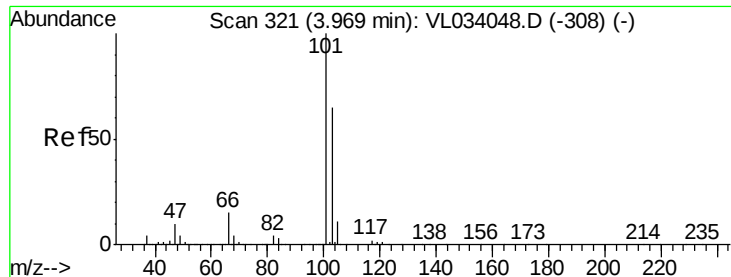
Tgt Ion: 43 Resp: 1374946

Ion Ratio Lower Upper

43 100

57 56.0 44.8 67.2





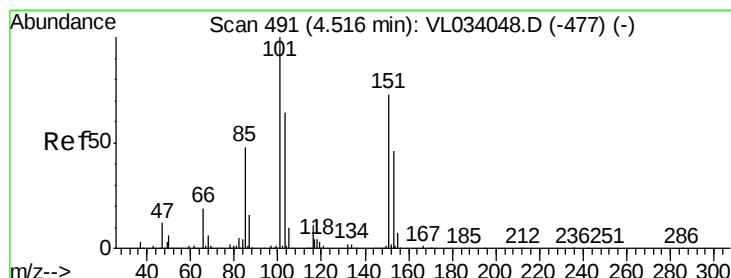
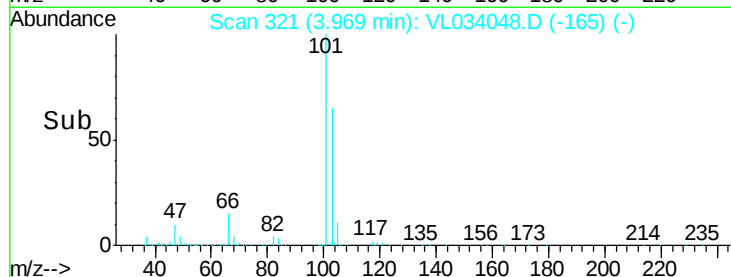
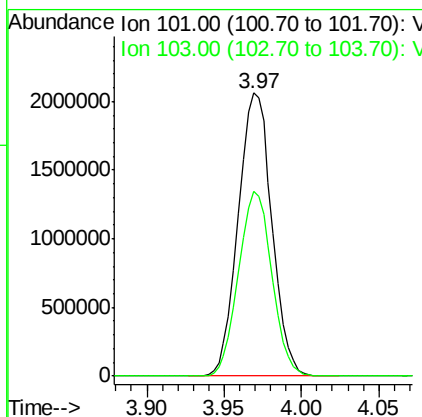
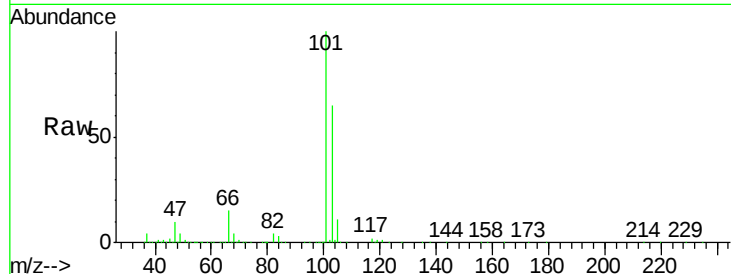
#11
 Trichlorofluoromethane
 Concen: 10.432 ppbv
 RT: 3.97 min Scan# 321
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 3118729
 Ion Ratio Lower Upper
 101 100
 103 65.4 52.3 78.5

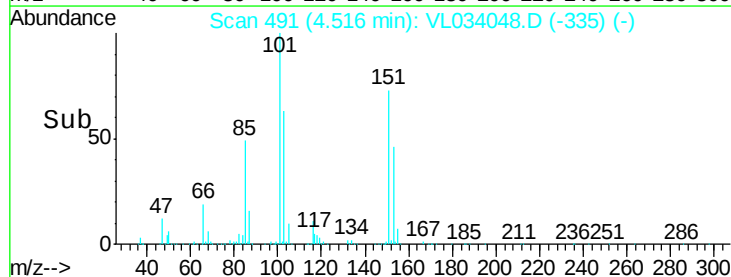
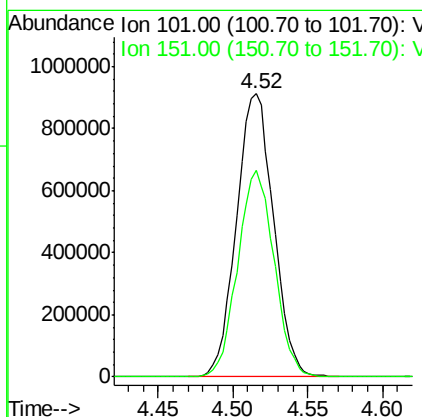
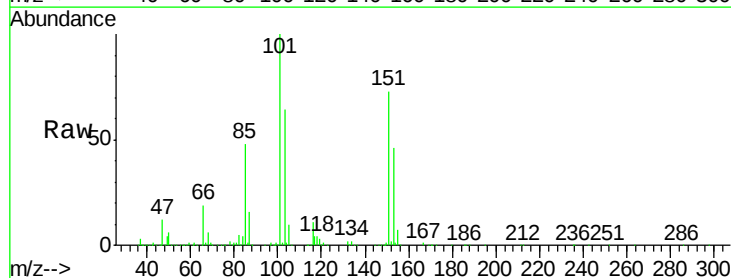
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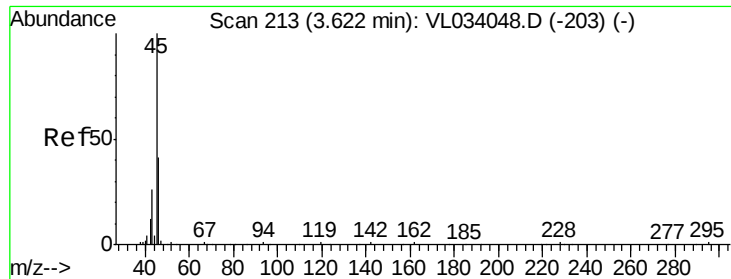
MMDadoda
 8/2/2019 9:37:33 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 7.924 ppbv
 RT: 4.52 min Scan# 491
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion:101 Resp: 1576393
 Ion Ratio Lower Upper
 101 100
 151 71.6 57.3 85.9





#13

Ethanol

Concen: 9.431 ppbv m

RT: 3.62 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 168516

Ion Ratio Lower Upper

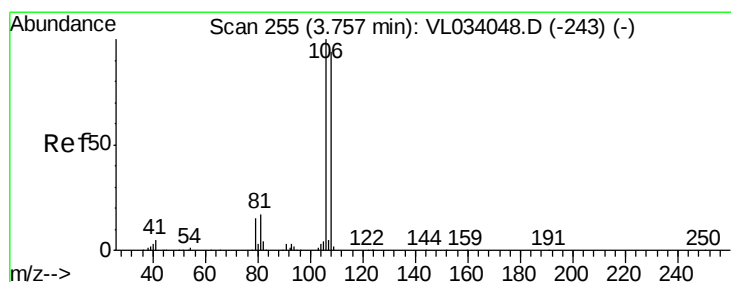
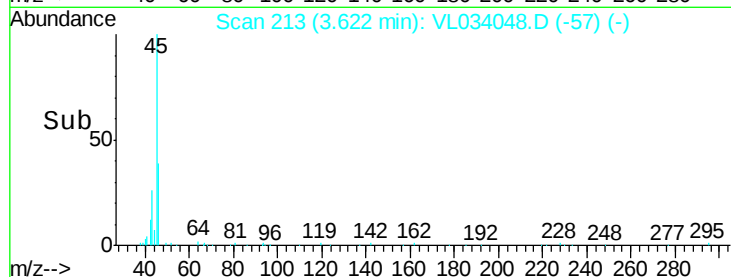
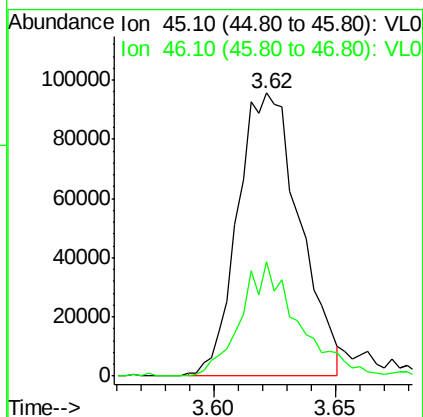
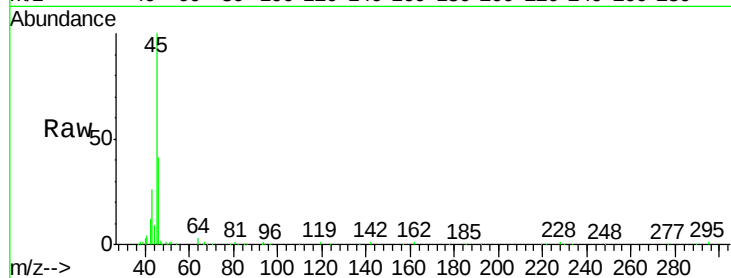
45 100

46 38.9 15.6 62.2

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#14

Bromoethene

Concen: 10.904 ppbv

RT: 3.76 min Scan# 255

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

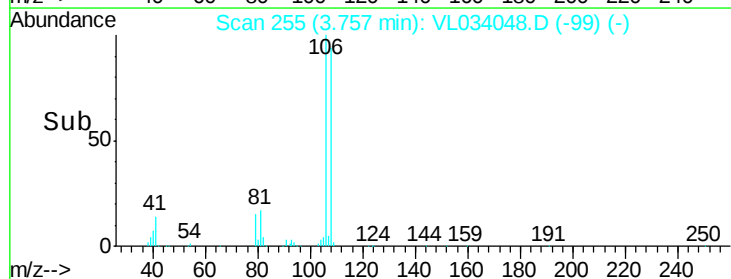
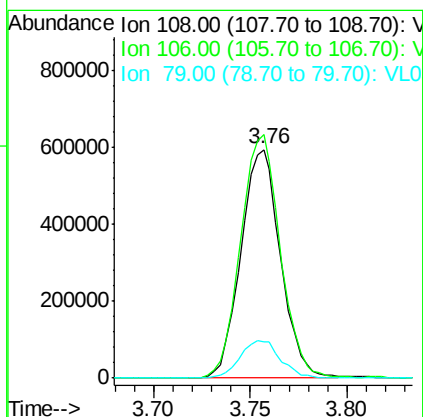
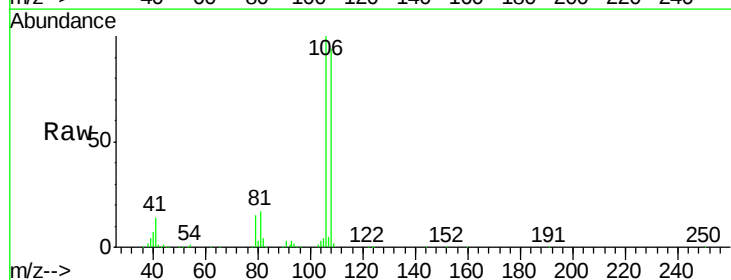
Tgt Ion: 108 Resp: 846881

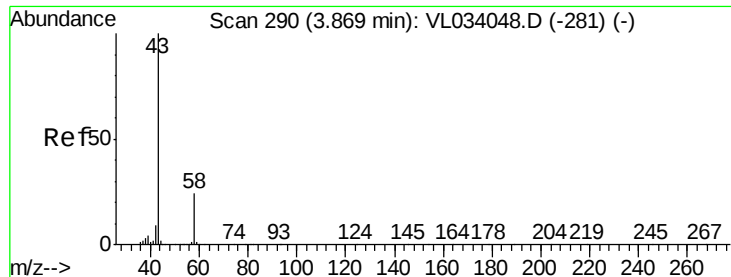
Ion Ratio Lower Upper

108 100

106 107.8 86.2 129.2

79 17.1 13.7 20.5





#15

Acetone

Concen: 9.702 ppbv

RT: 3.87 min Scan# 290

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2093529

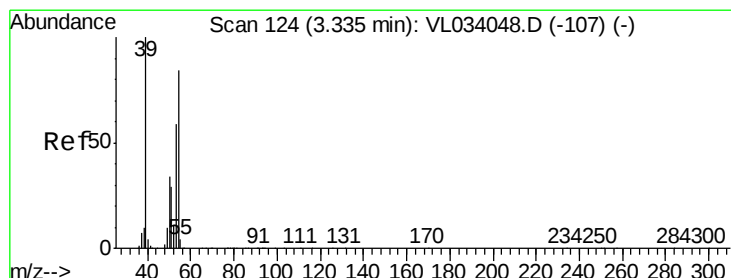
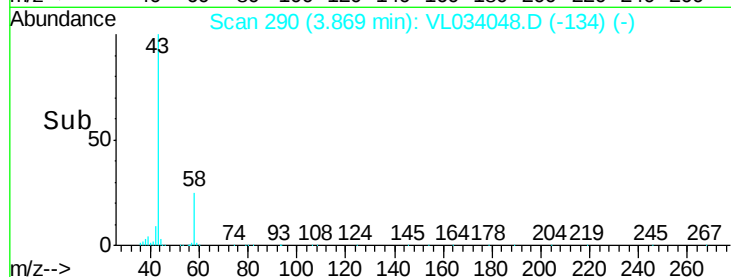
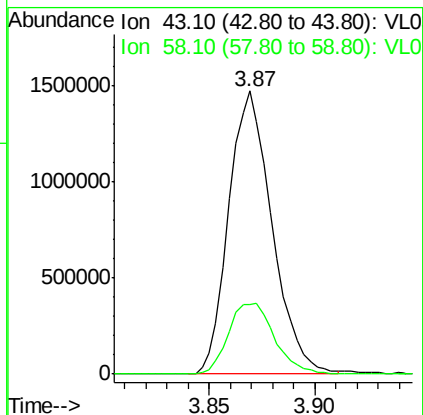
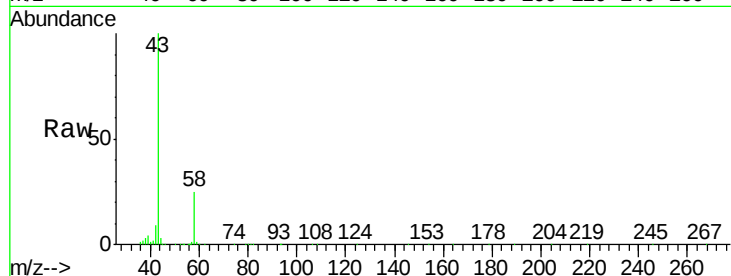
Ion Ratio Lower Upper

43 100

58 26.9 21.6 32.4

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#16

1,3-Butadiene

Concen: 12.403 ppbv

RT: 3.34 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL034048.D

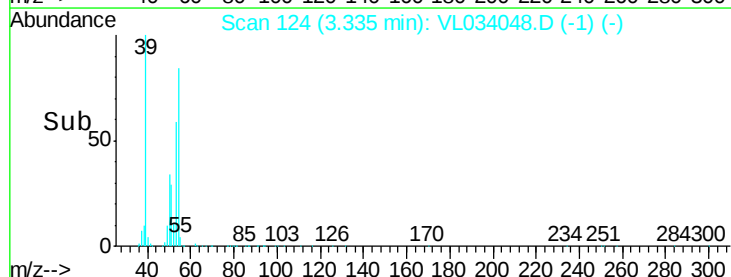
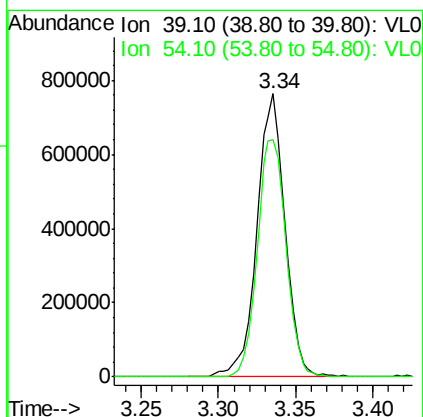
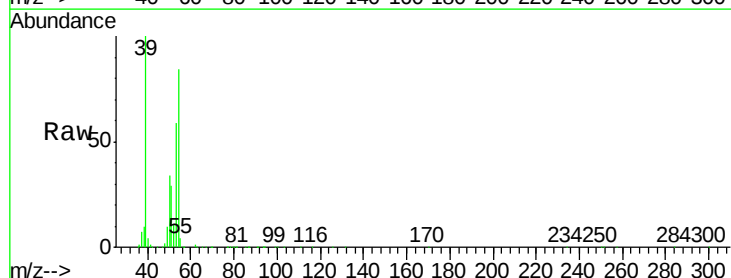
Acq: 30 Jul 2019 2:07

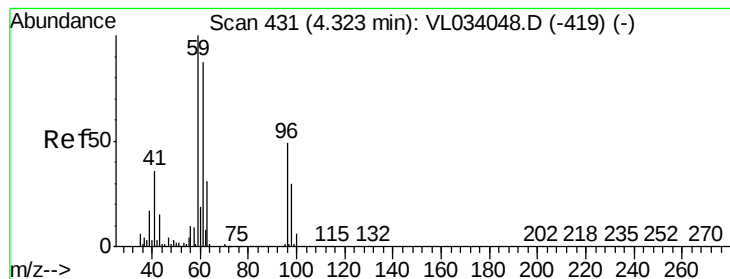
Tgt Ion: 39 Resp: 968238

Ion Ratio Lower Upper

39 100

54 86.1 68.9 103.3





#17

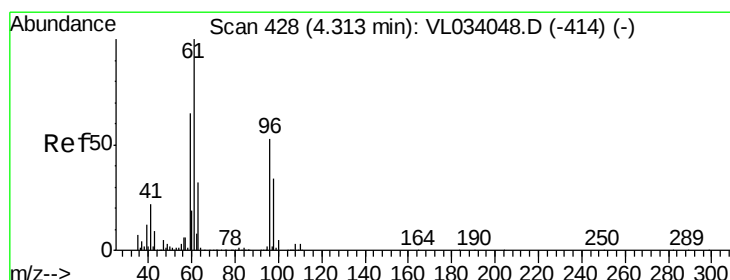
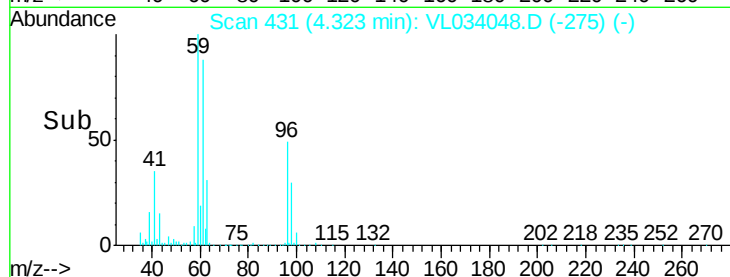
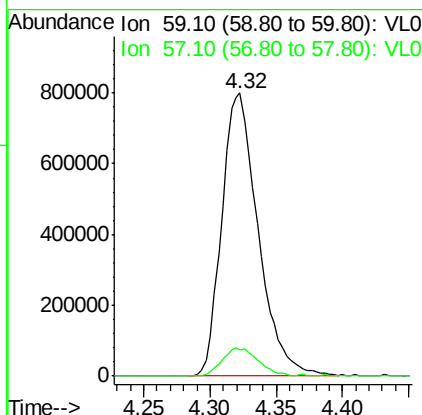
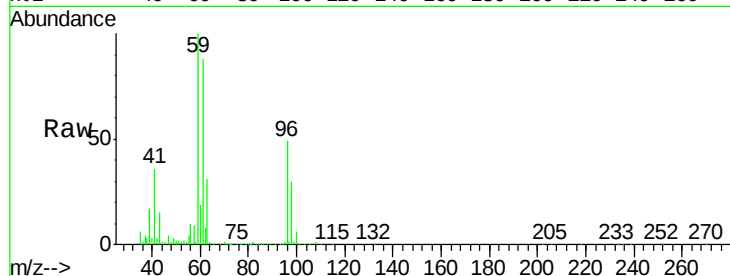
tert-Butyl alcohol
 Concen: 9.244 ppbv
 RT: 4.32 min Scan# 431
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 59 Resp: 1519423
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.2 12.4

Manual Integrations
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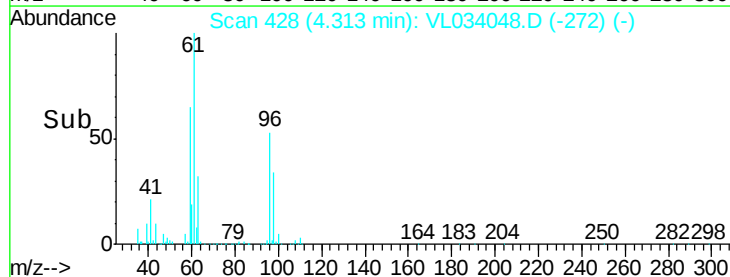
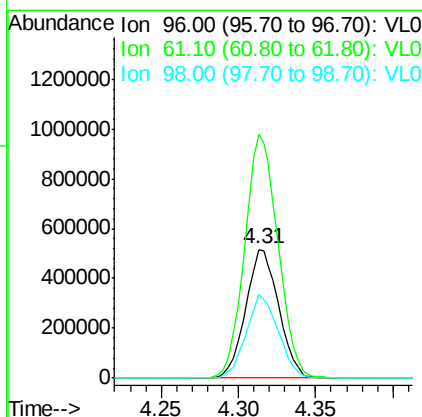
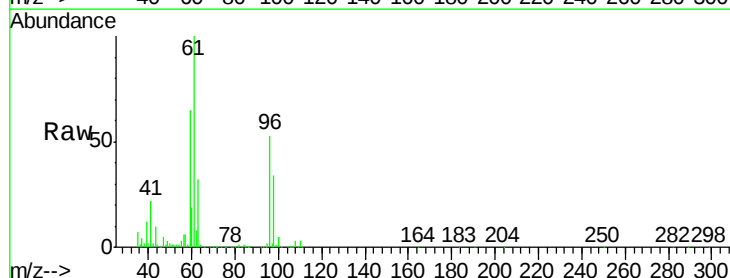
MMdadoda
 8/2/2019 9:37:33 AM

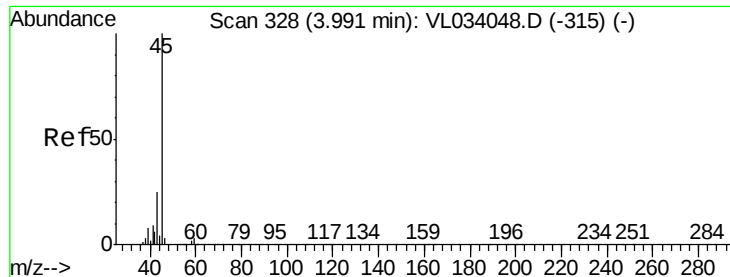


#18

1,1-Dichloroethene
 Concen: 8.605 ppbv
 RT: 4.31 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion: 96 Resp: 767080
 Ion Ratio Lower Upper
 96 100
 61 189.4 151.5 227.3
 98 65.2 52.2 78.2





#19

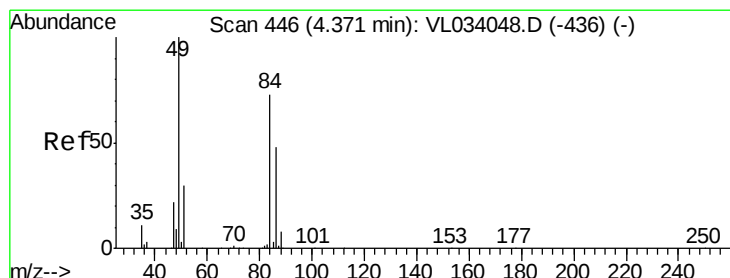
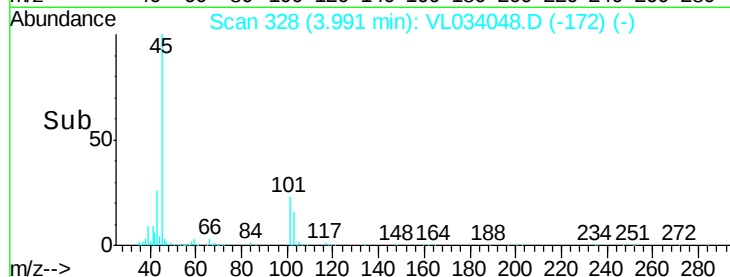
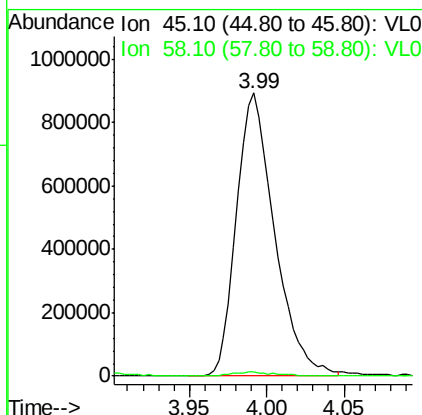
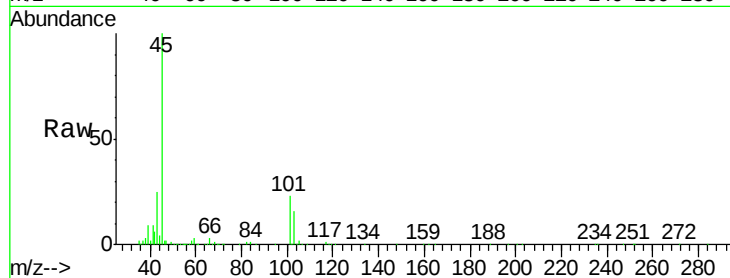
Isopropyl Alcohol
 Concen: 10.582 ppbv
 RT: 3.99 min Scan# 328
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 45 Resp: 1534843
 Ion Ratio Lower Upper
 45 100
 58 2.0 1.8 2.6

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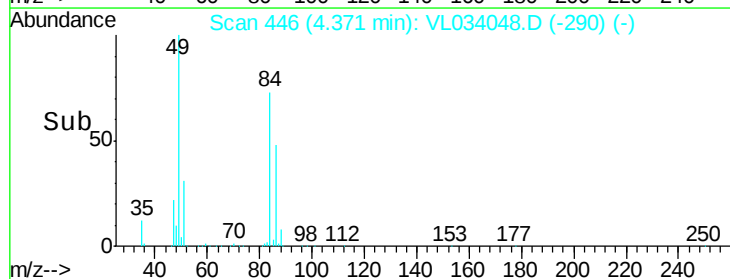
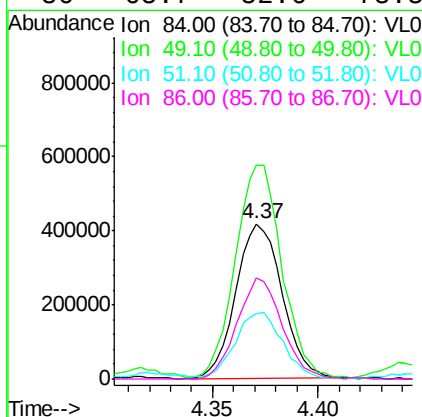
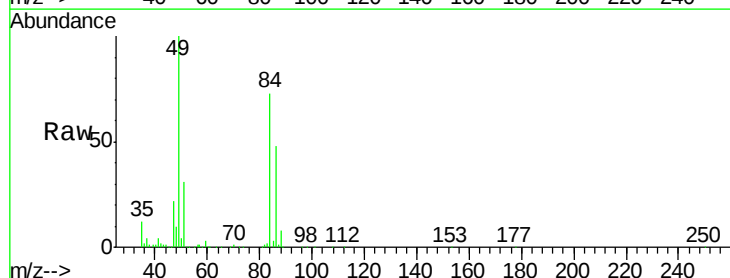
MMdadoda
 8/2/2019 9:37:33 AM

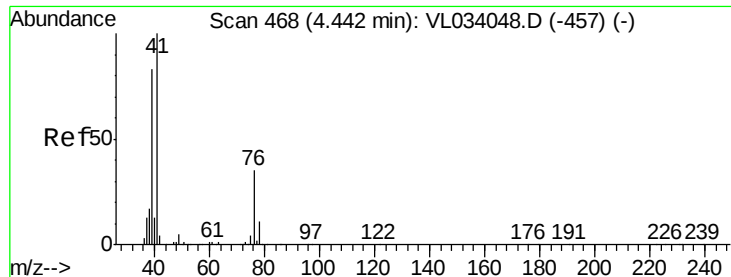


#20

Methylene Chloride
 Concen: 7.164 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion: 84 Resp: 636734
 Ion Ratio Lower Upper
 84 100
 49 137.0 109.6 164.4
 51 41.8 33.4 50.2
 86 65.7 52.6 78.8





#21

Allvl Chloride

Concen: 8.633 ppbv

RT: 4.44 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 1099294

Ion Ratio Lower Upper

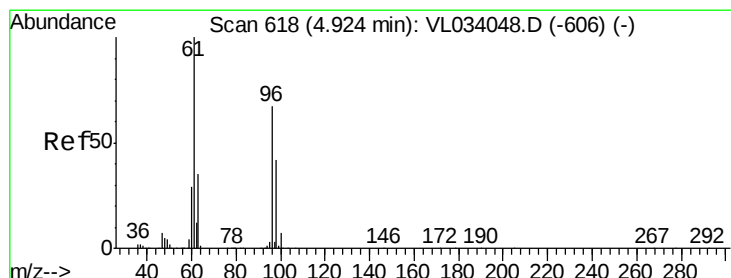
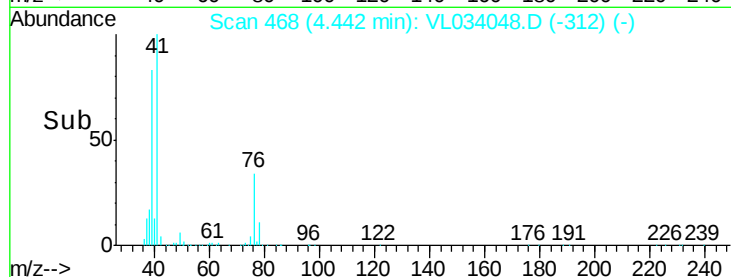
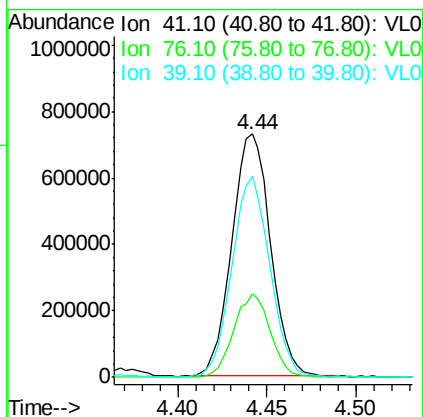
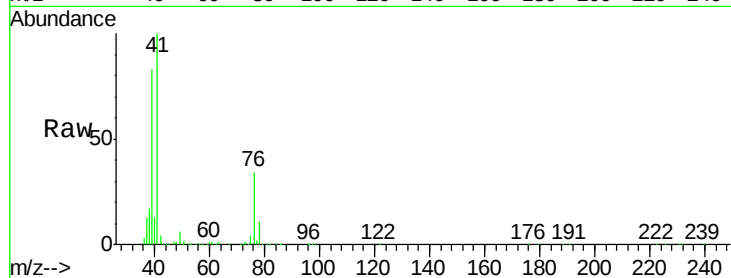
41 100

76 32.6 26.1 39.1

39 81.7 65.0 97.6

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#22

trans-1,2-Dichloroethene

Concen: 9.238 ppbv

RT: 4.92 min Scan# 618

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

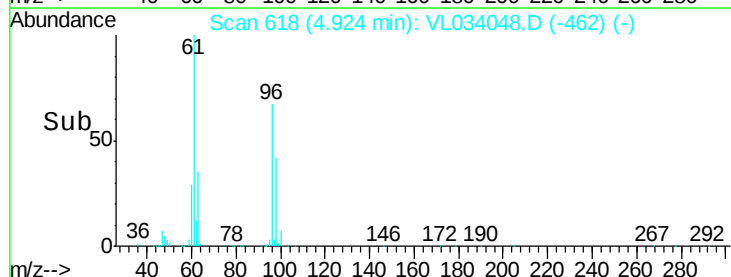
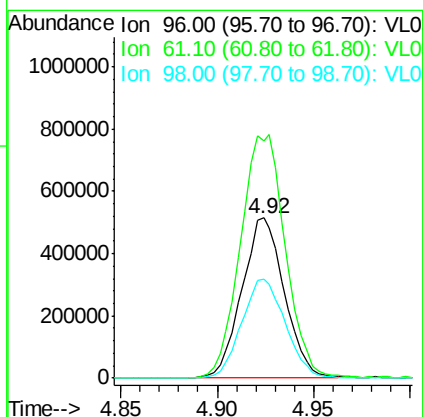
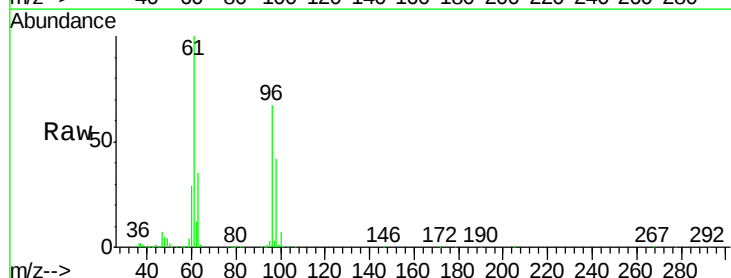
Tgt Ion: 96 Resp: 784508

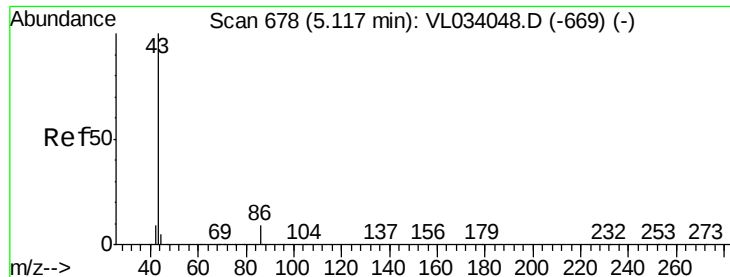
Ion Ratio Lower Upper

96 100

61 148.2 118.6 177.8

98 62.1 49.7 74.5





#23

Vinyl Acetate

Concen: 9.863 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Tot Ion: 43 Resp: 2001452

Ion Ratio Lower Upper

43 100

86 8.1 6.5 9.7

42 10.4 8.3 12.5

44 5.0 4.0 6.0

Instrument :

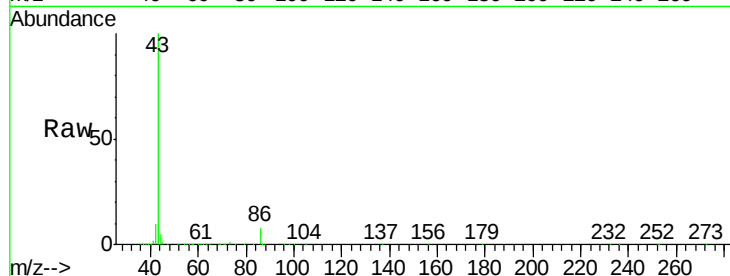
MSVOA_L

ClientSampleId :

VSTDICCC010

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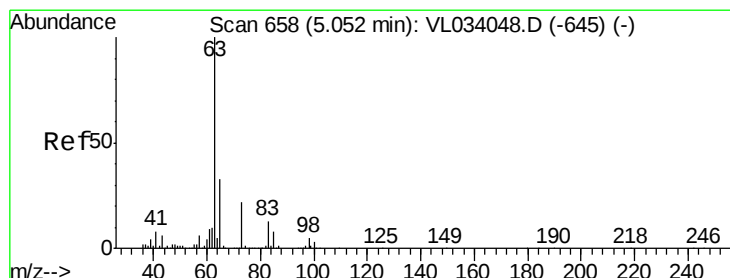
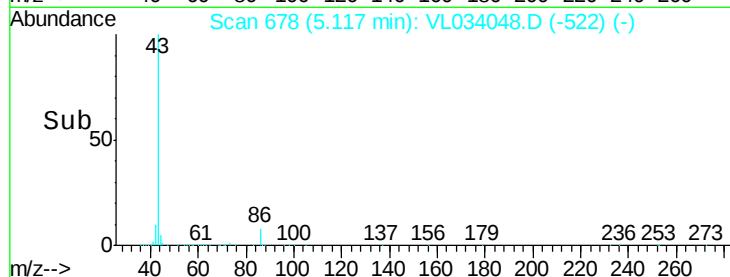
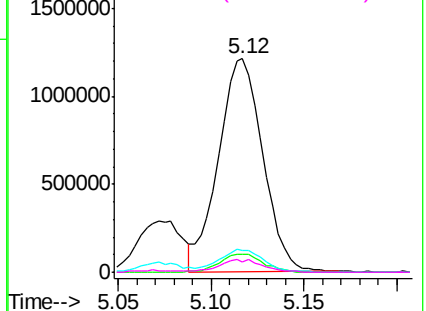


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.203 ppbv

RT: 5.05 min Scan# 658

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

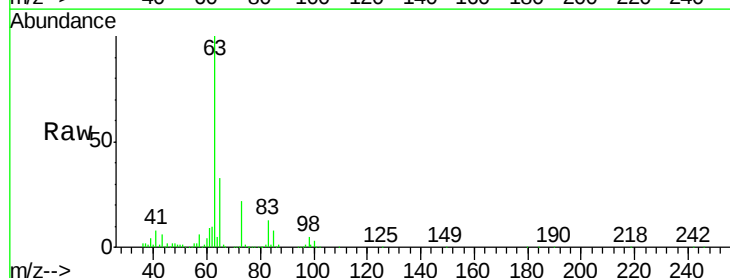
Tgt Ion: 63 Resp: 1672178

Ion Ratio Lower Upper

63 100

98 4.8 2.4 7.2

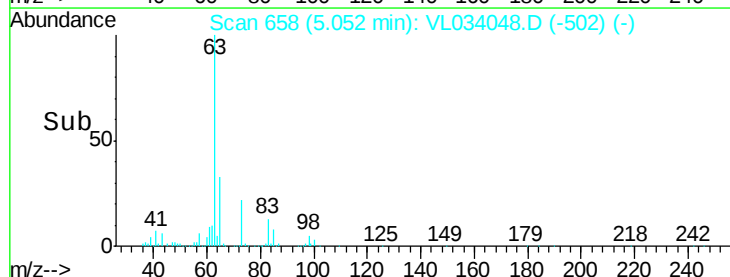
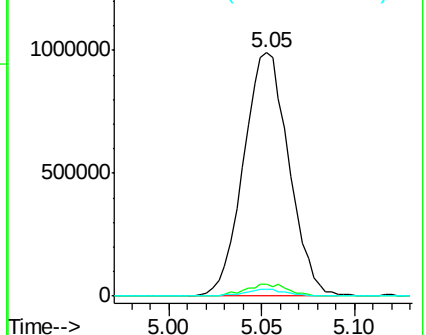
100 2.6 1.3 3.9

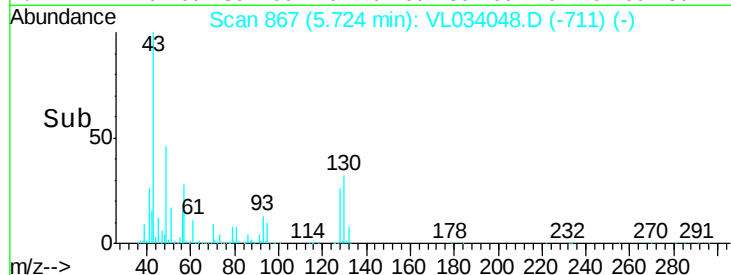
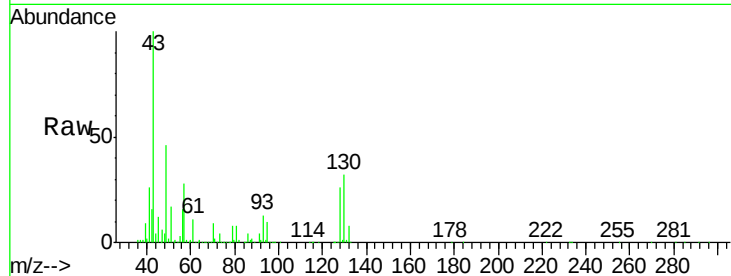
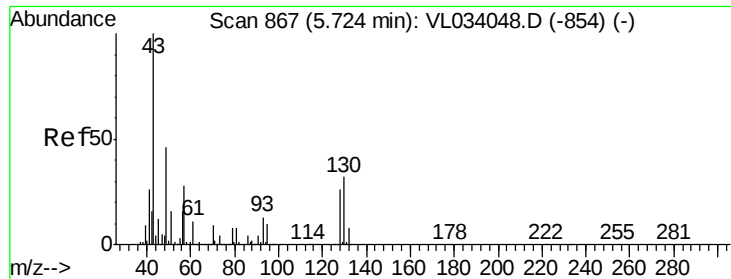


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





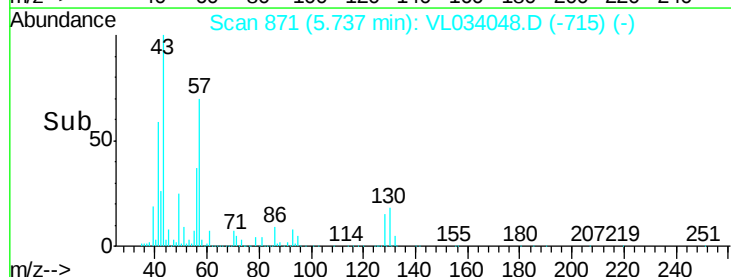
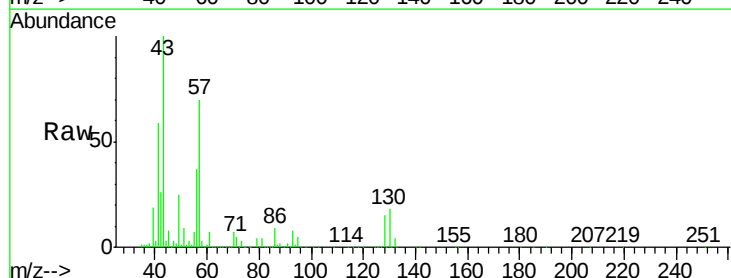
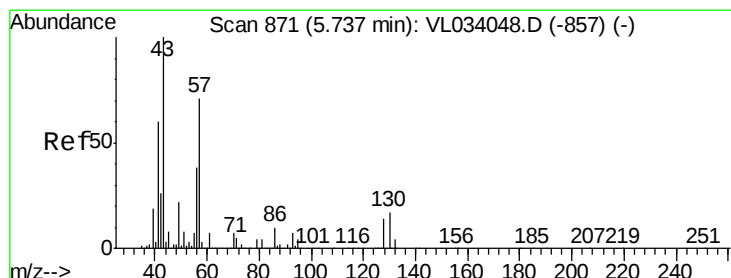
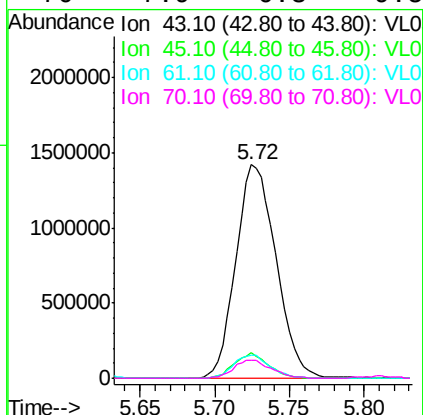
#25
Ethyl Acetate
Concen: 9.472 ppbv
RT: 5.72 min Scan# 867
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Tot Ion	43	Resp	2653599
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	10.1	8.1	12.1
70	7.9	6.3	9.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

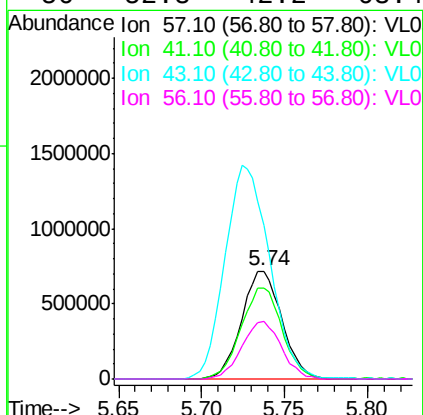
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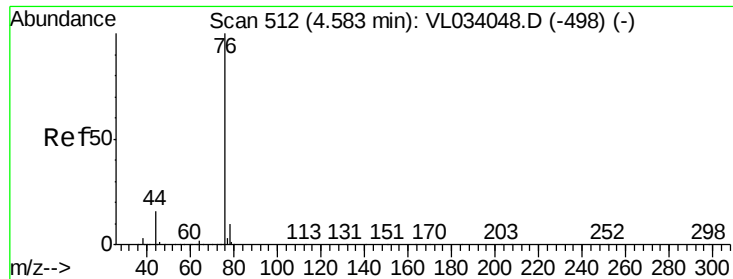
MMdadoda
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#26
Hexane
Concen: 9.426 ppbv
RT: 5.74 min Scan# 871
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Tgt Ion	57	Resp	1209849
Ion	Ratio	Lower	Upper
57	100		
41	86.3	69.0	103.6
43	220.7	176.6	264.8
56	52.8	42.2	63.4





#27

Carbon Disulfide

Concen: 8.795 ppbv

RT: 4.58 min Scan# 512

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1900819

Ion Ratio Lower Upper

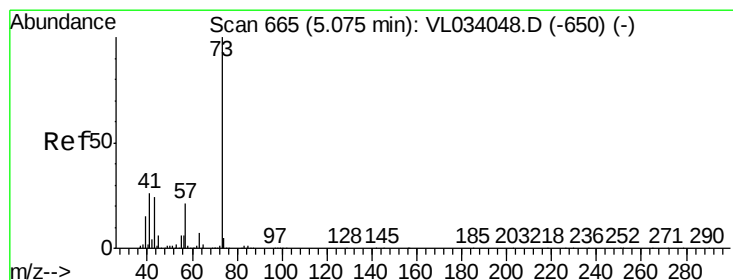
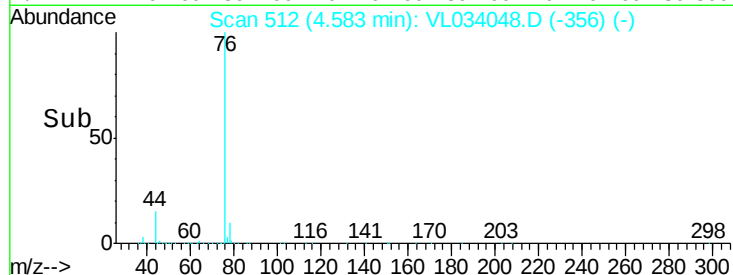
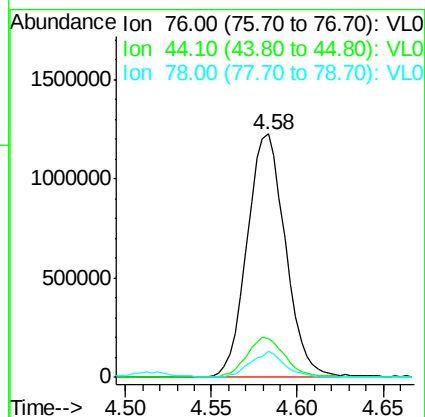
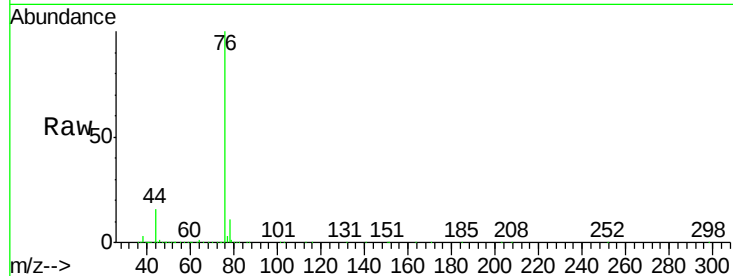
76 100

44 16.2 13.0 19.4

78 9.6 7.7 11.5

Manual Integrations
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8/2/2019 9:37:33 AM



#28

Methyl tert-Butyl Ether

Concen: 9.886 ppbv

RT: 5.07 min Scan# 665

Delta R.T. 0.00 min

Lab File: VL034048.D

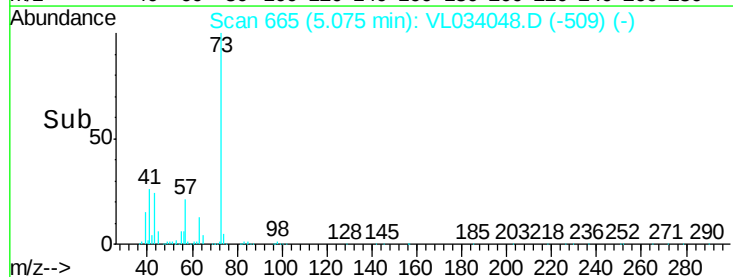
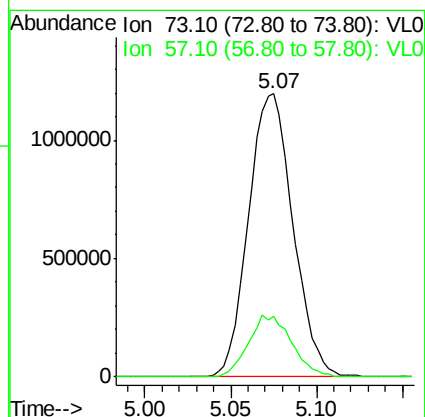
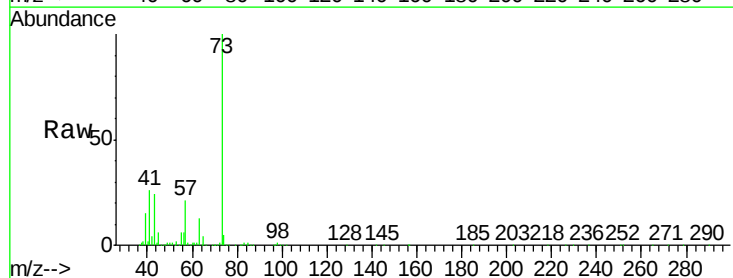
Acq: 30 Jul 2019 2:07

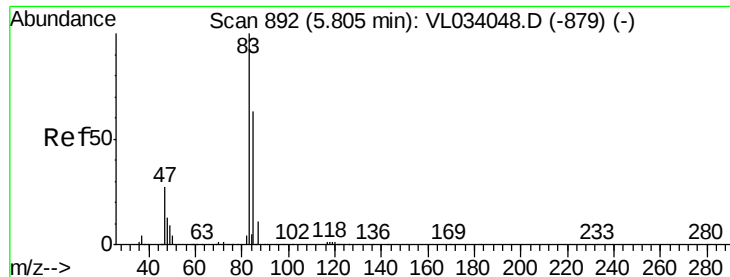
Tgt Ion: 73 Resp: 2141249

Ion Ratio Lower Upper

73 100

57 21.5 17.2 25.8





#29

Chloroform

Concen: 8.746 ppbv

RT: 5.80 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Tot Ion: 83 Resp: 2106053

Ion Ratio Lower Upper

83 100

85 62.8 50.2 75.4

Instrument :

MSVOA_L

ClientSampleId :

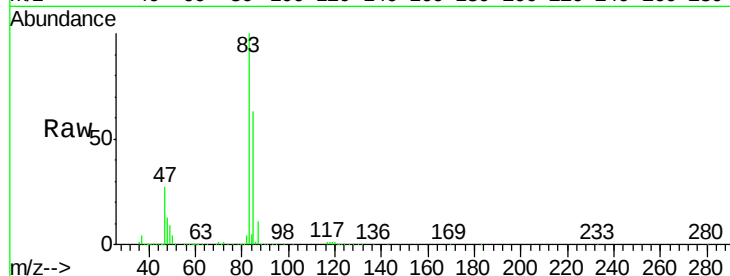
VSTDICCC010

Manual Integrations

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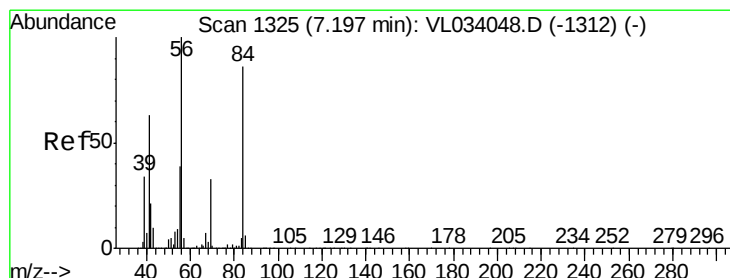
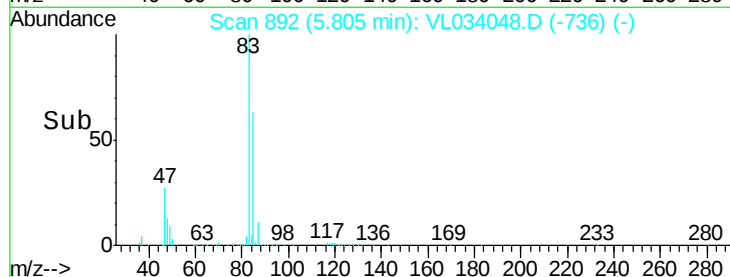
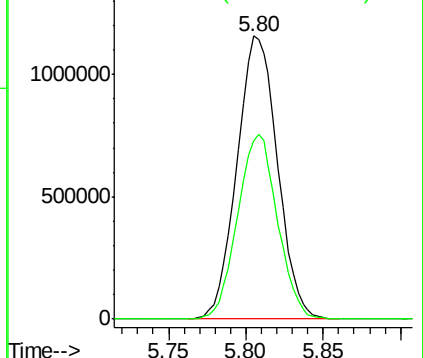
MMdadoda

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 12.496 ppbv

RT: 7.20 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

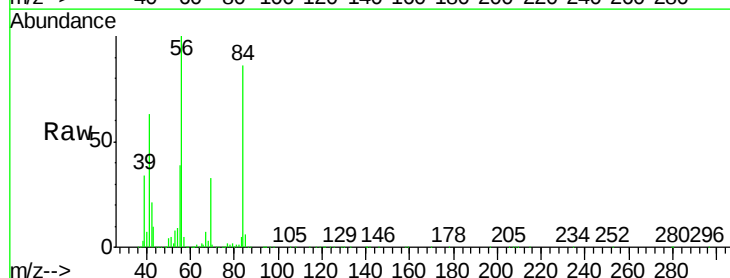
Tgt Ion: 84 Resp: 1313388

Ion Ratio Lower Upper

84 100

56 127.2 101.7 152.5

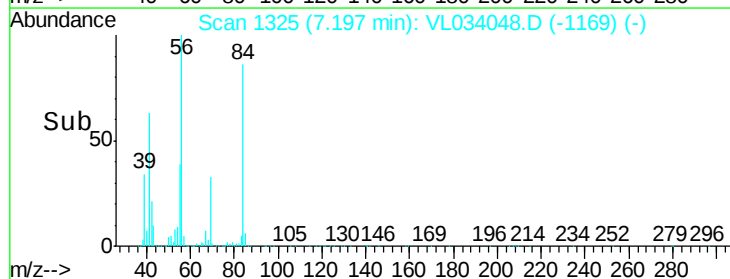
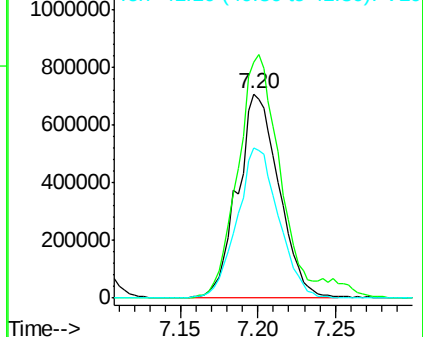
41 74.3 59.4 89.0

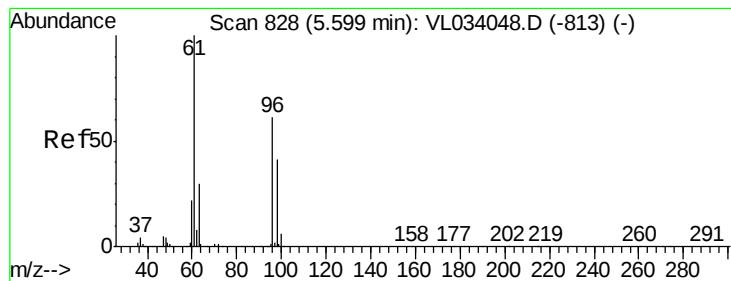


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

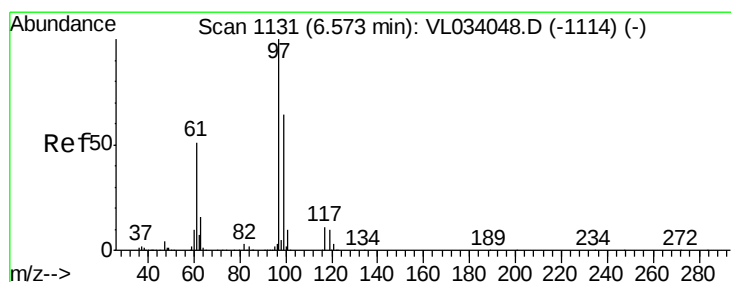
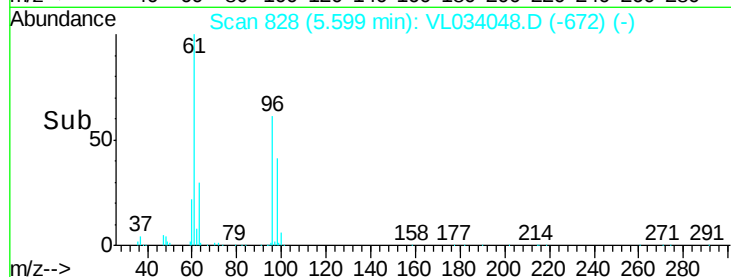
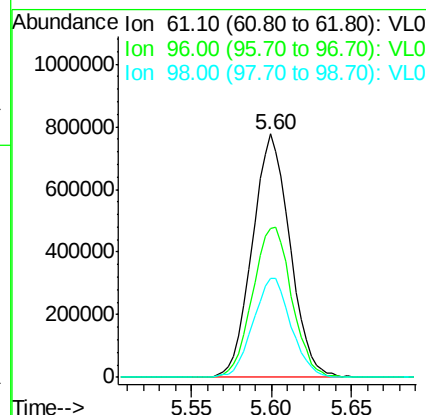
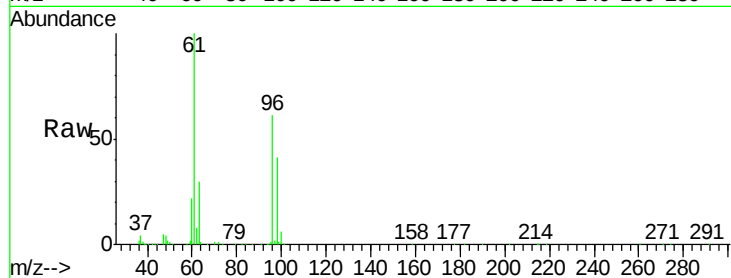
cis-1,2-Dichloroethene
 Concen: 10.161 ppbv
 RT: 5.60 min Scan# 828
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.4	49.1	73.7
98	40.6	32.5	48.7

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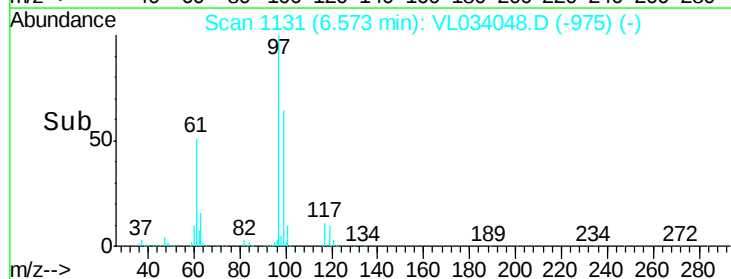
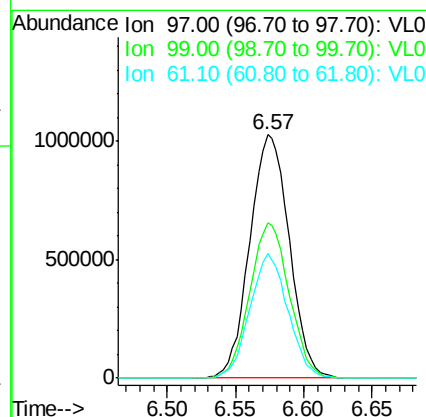
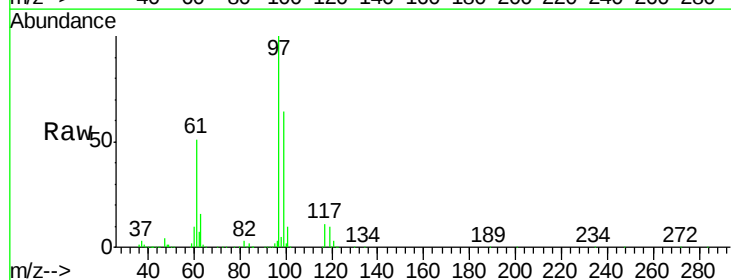
MMdadoda
 8/2/2019 9:37:33 AM

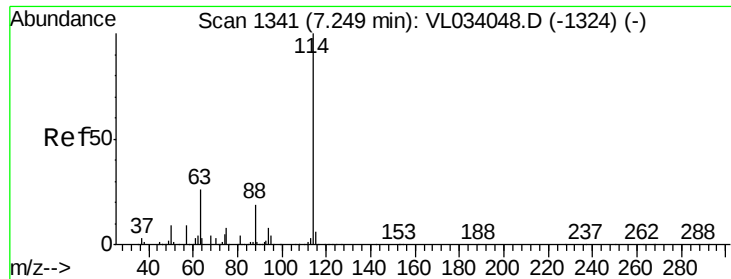


#32

1,1,1-Trichloroethane
 Concen: 8.454 ppbv
 RT: 6.57 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	49.4	39.5	59.3





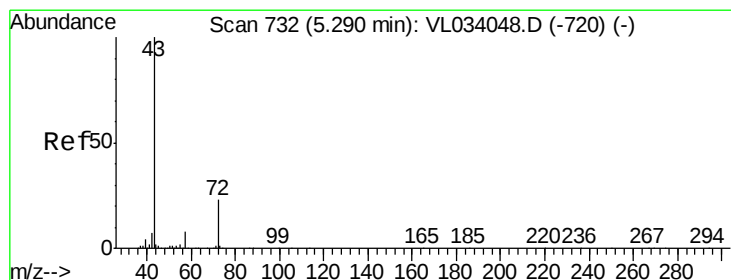
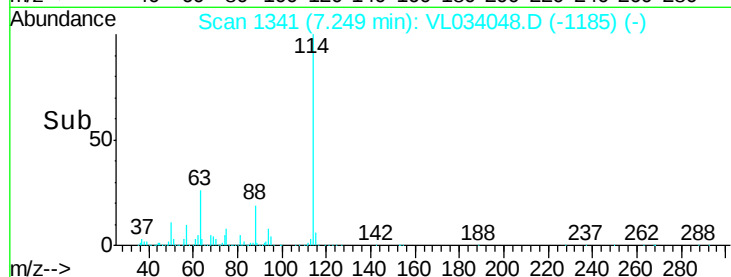
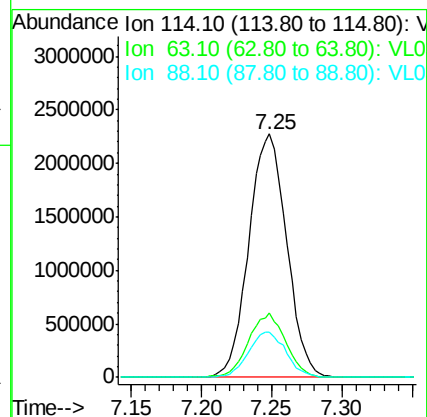
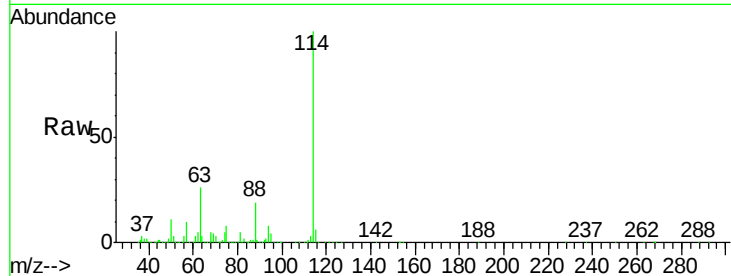
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:114 Resp: 4274449
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.0 31.6
 88 18.4 14.7 22.1

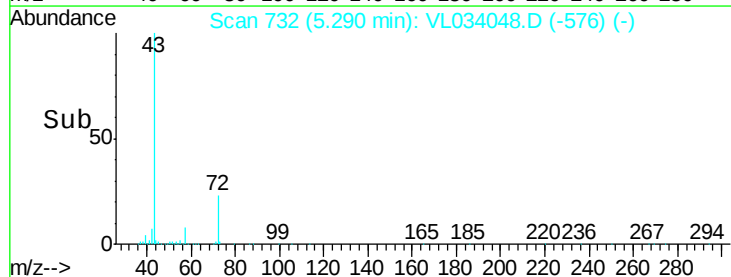
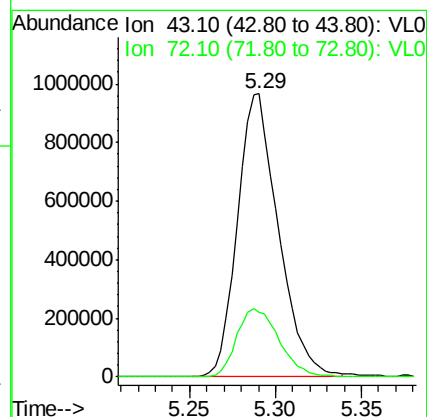
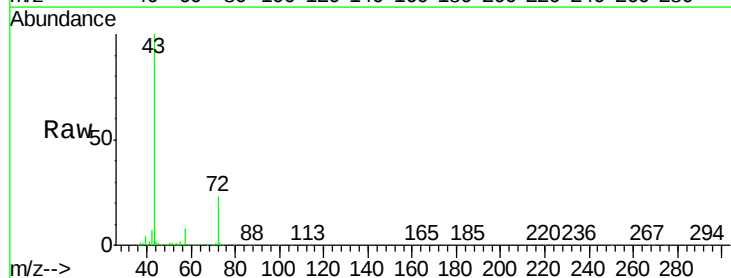
Manual Integrations
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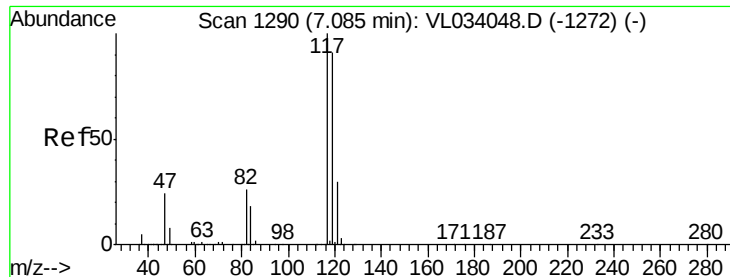
MMdadoda
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#34
 2-Butanone
 Concen: 7.549 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion: 43 Resp: 1599430
 Ion Ratio Lower Upper
 43 100
 72 25.3 20.2 30.4





#35

Carbon Tetrachloride

Concen: 6.758 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2181699

Ion Ratio Lower Upper

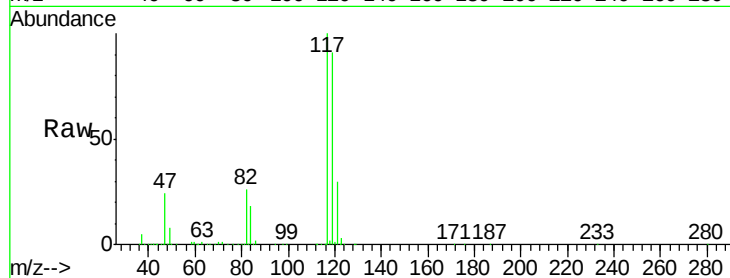
117 100

119 91.5 73.2 109.8

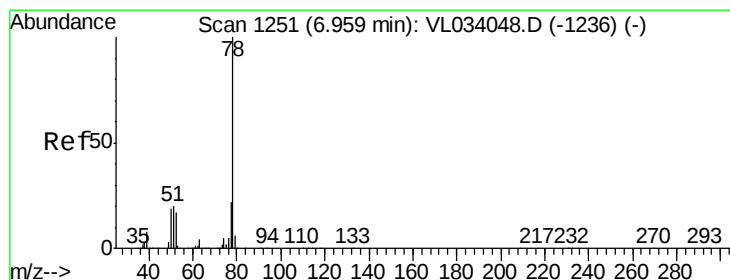
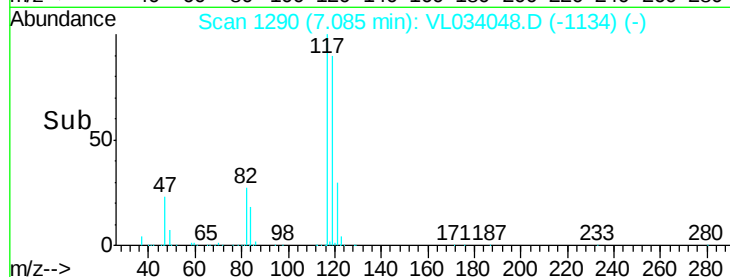
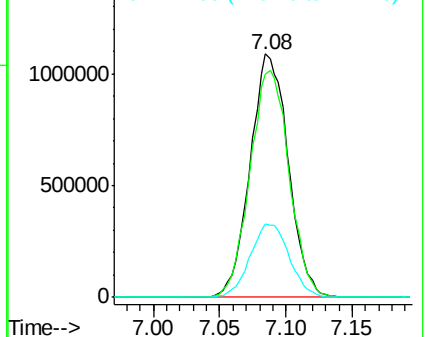
121 30.0 24.0 36.0

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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: 7.616 ppbv

RT: 6.96 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

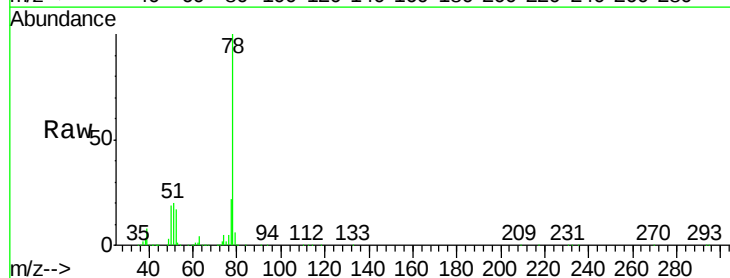
Tgt Ion: 78 Resp: 2362069

Ion Ratio Lower Upper

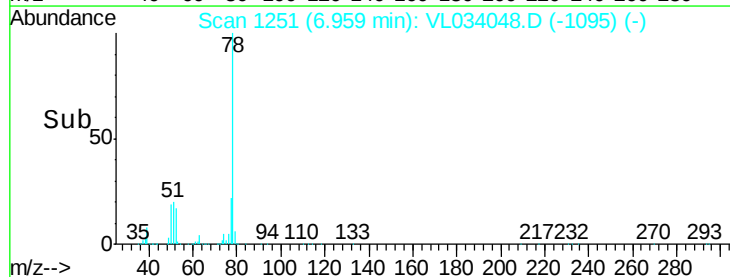
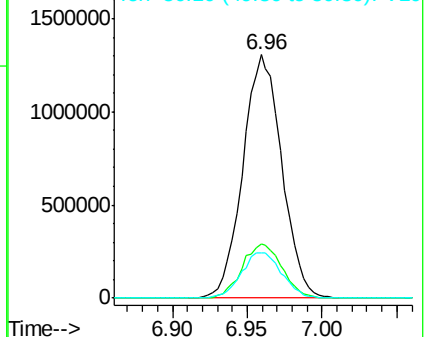
78 100

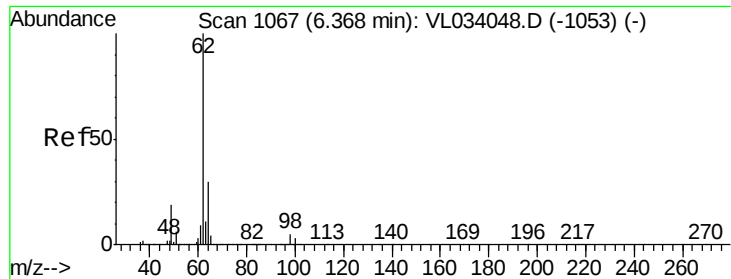
77 22.4 17.9 26.9

50 18.6 14.9 22.3



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: 7.167 ppbv

RT: 6.37 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 1655660

Ion Ratio Lower Upper

62 100

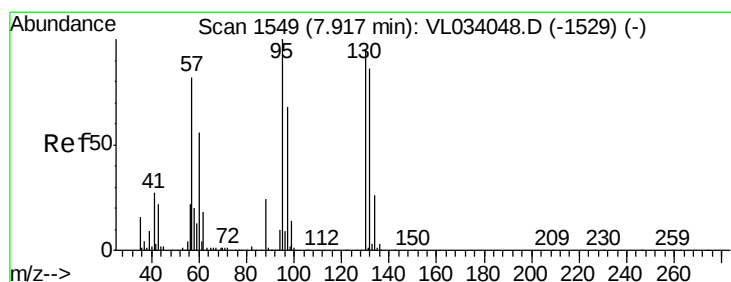
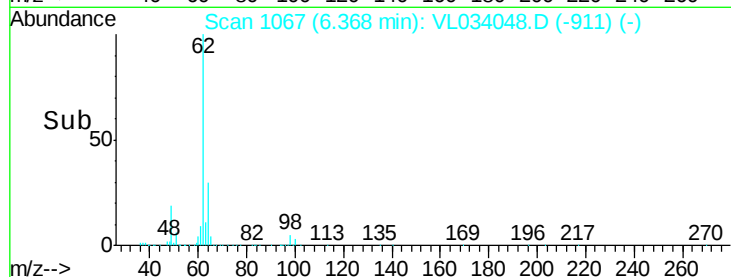
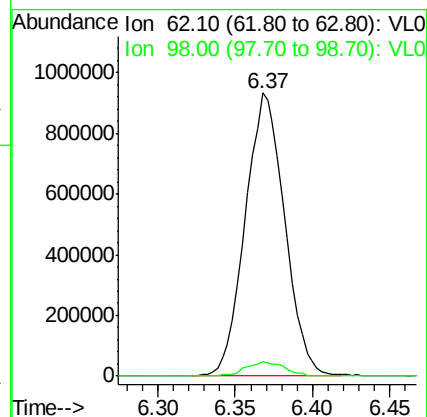
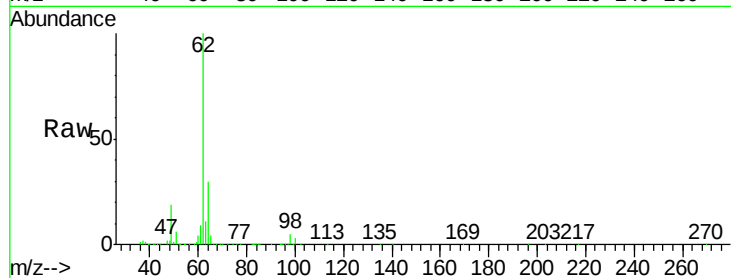
98 5.2 4.2 6.2

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#38

Trichloroethene

Concen: 7.377 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Tgt Ion: 130 Resp: 1041951

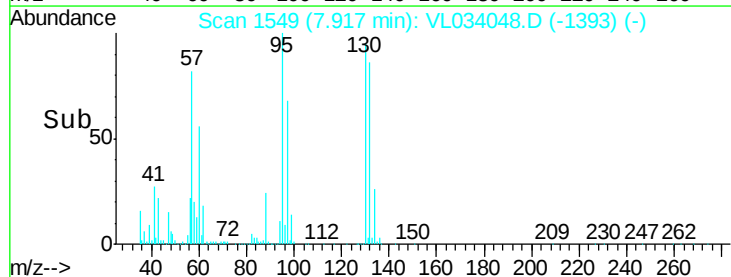
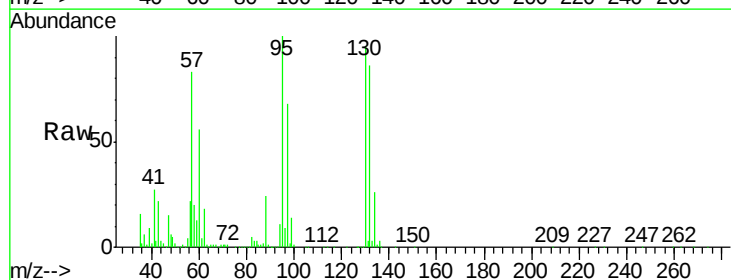
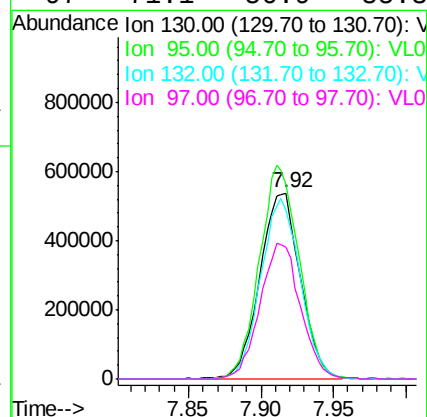
Ion Ratio Lower Upper

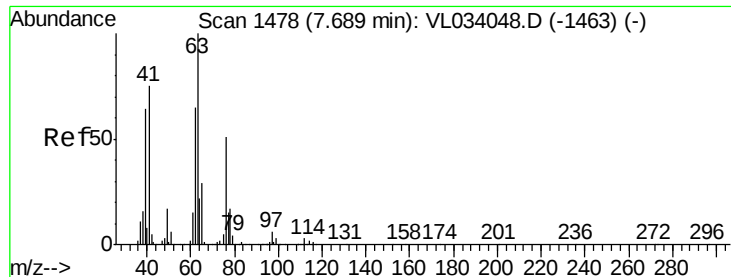
130 100

95 105.1 84.1 126.1

132 90.9 72.7 109.1

97 71.1 56.9 85.3





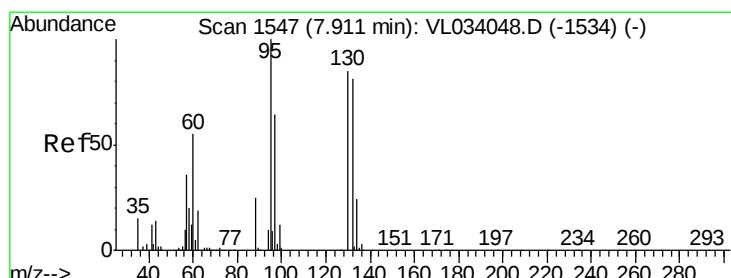
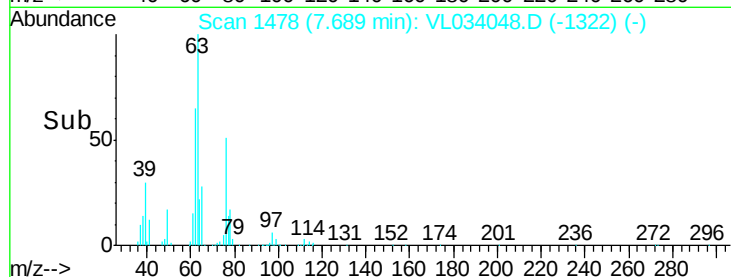
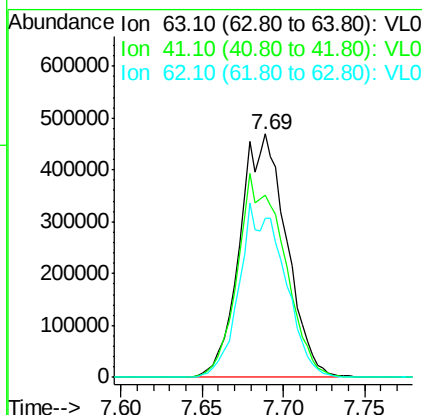
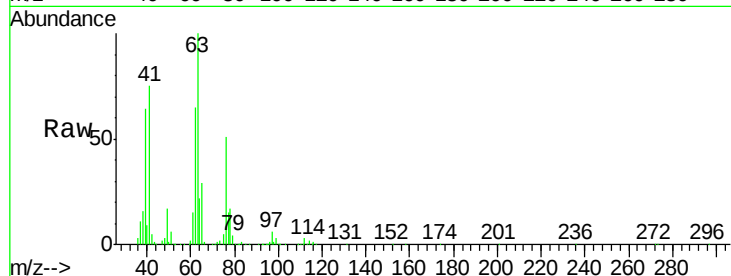
#39
 1,2-Dichloropropane
 Concen: 8.008 ppbv m
 RT: 7.69 min Scan# 1478
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.8	59.8	89.8
62	65.2	52.2	78.2

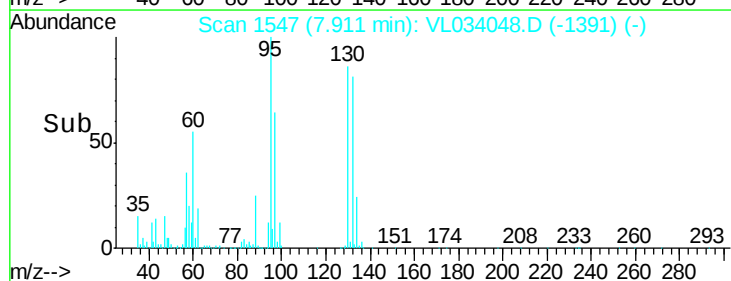
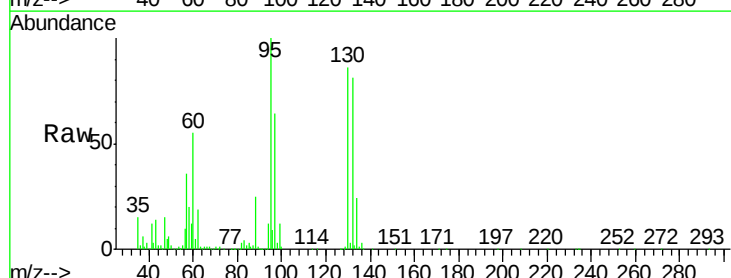
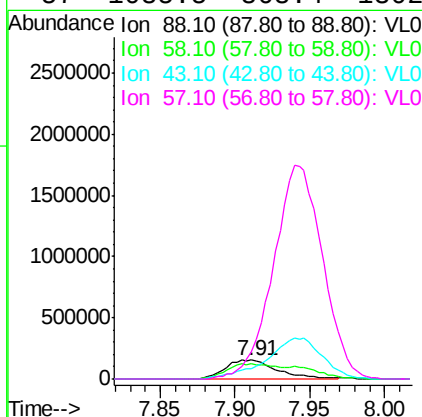
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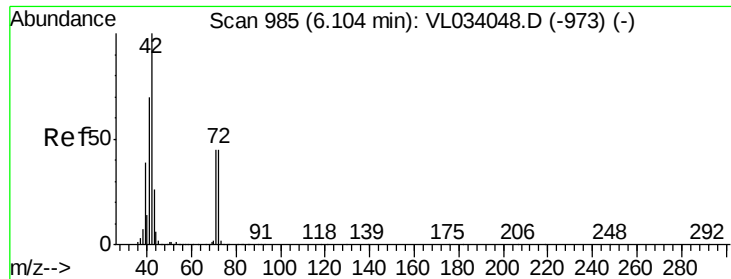
MMdadoda
 8/2/2019 9:37:33 AM



#40
 1,4-Dioxane
 Concen: 6.894 ppbv
 RT: 7.91 min Scan# 1547
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion	Ratio	Lower	Upper
88	100		
58	124.5	99.6	149.4
43	237.5	189.2	283.8
57	1085.5	868.4	1302.6





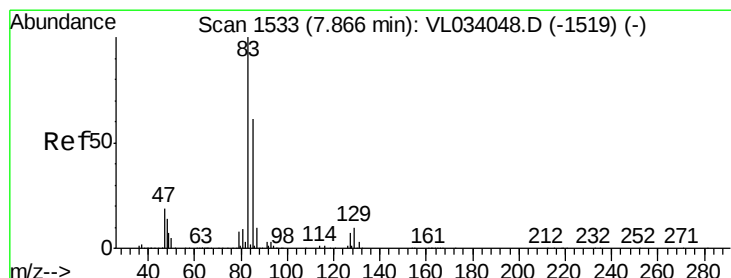
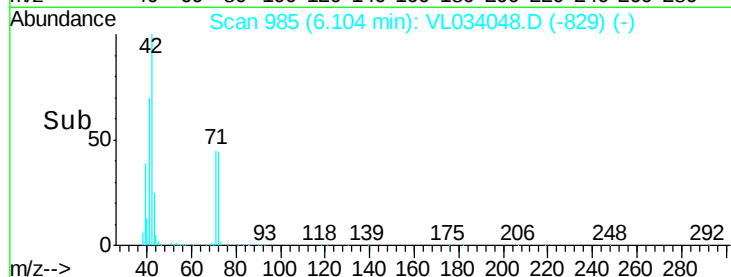
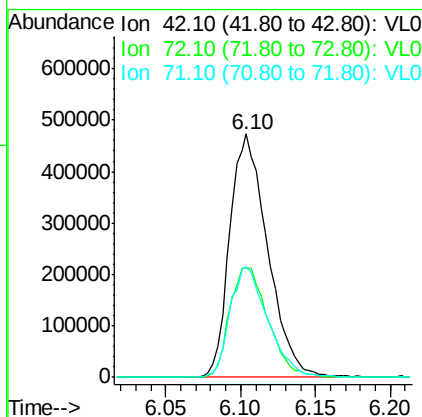
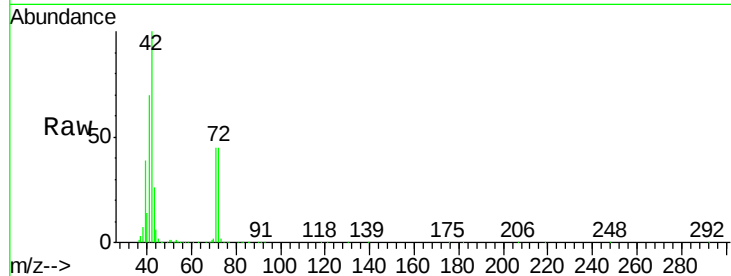
#41
Tetrahydrofuran
Concen: 8.090 ppbv
RT: 6.10 min Scan# 985
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.9	55.3
71	45.7	36.6	54.8

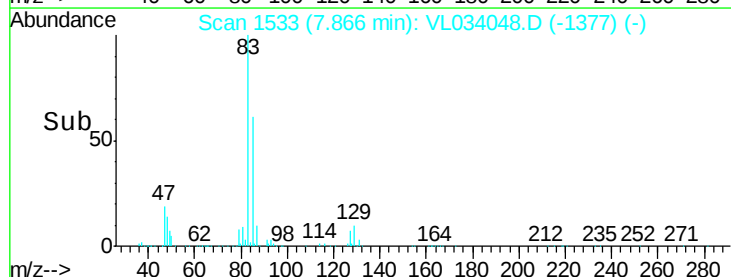
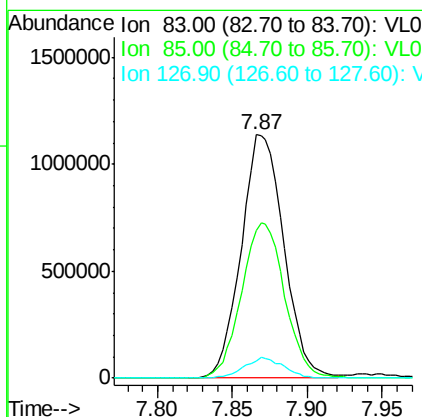
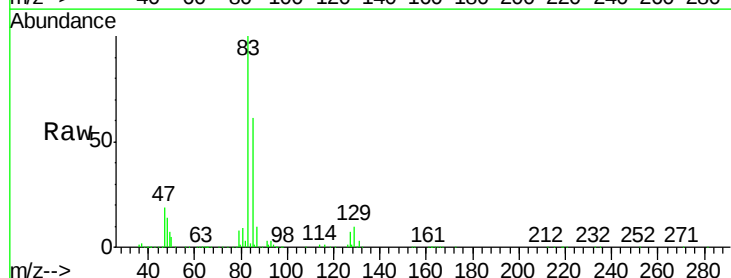
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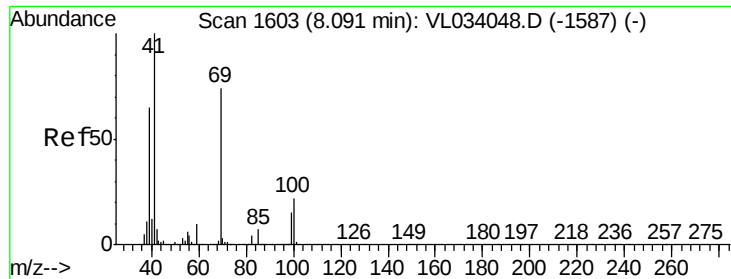
MMdadoda
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#42
Bromodichloromethane
Concen: 7.308 ppbv
RT: 7.87 min Scan# 1533
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.8	48.6	73.0
127	6.9	5.5	8.3





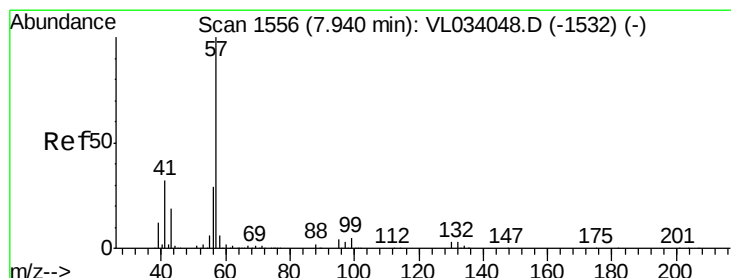
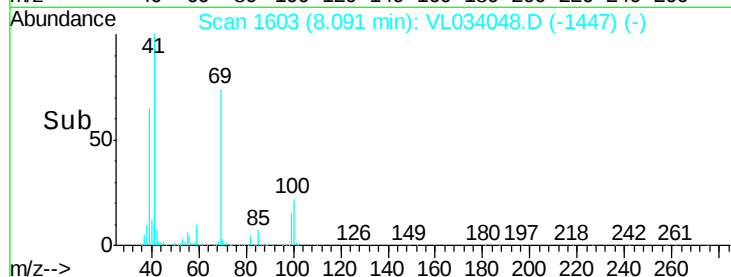
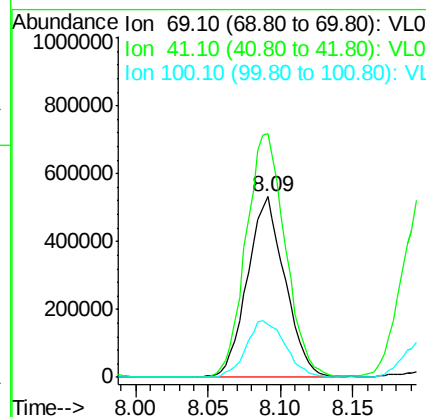
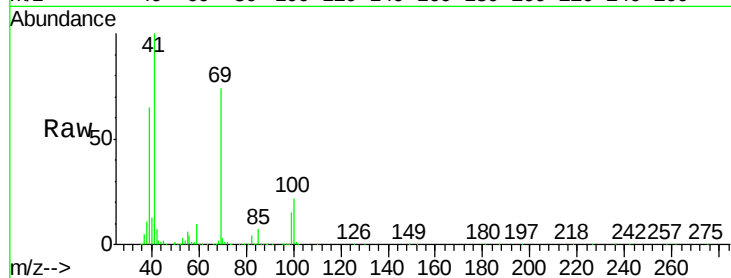
#43
Methvl Methacrylate
Concen: 8.199 ppbv
RT: 8.09 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	140.8	112.8	169.2
100	32.6	26.1	39.1

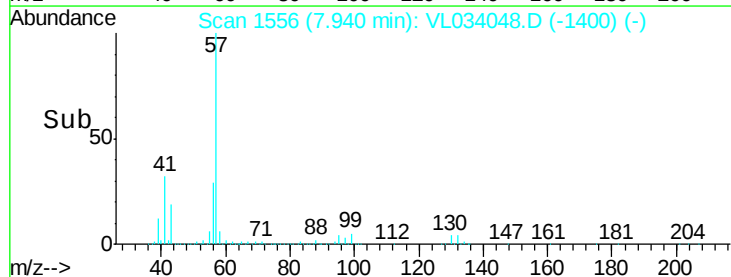
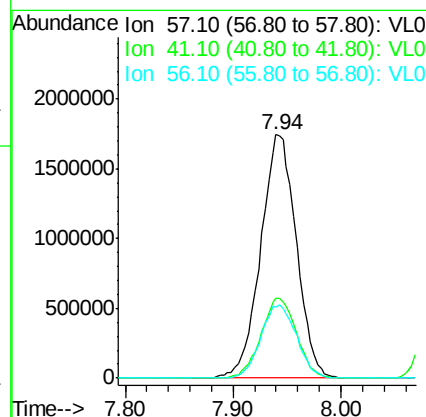
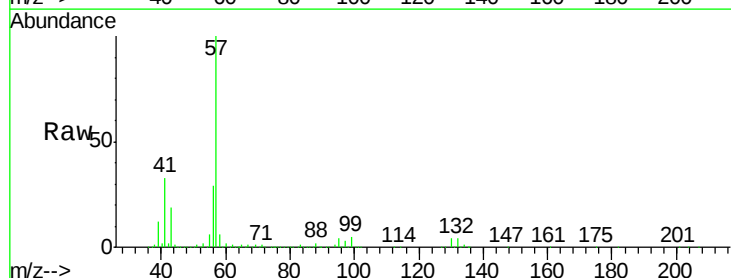
Manual Integrations
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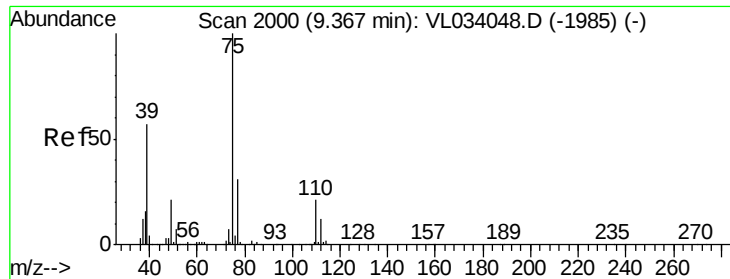
MMdadoda
8/2/2019 9:37:33 AM



#44
2,2,4-Trimethylpentane
Concen: 7.432 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.8	26.2	39.2
56	30.2	24.2	36.2





#45

t-1,3-Dichloropropene

Concen: 8.811 ppbv

RT: 9.37 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Tot Ion: 75 Resp: 1338255

Ion Ratio Lower Upper

75 100

77 30.8 24.6 37.0

Instrument :

MSVOA_L

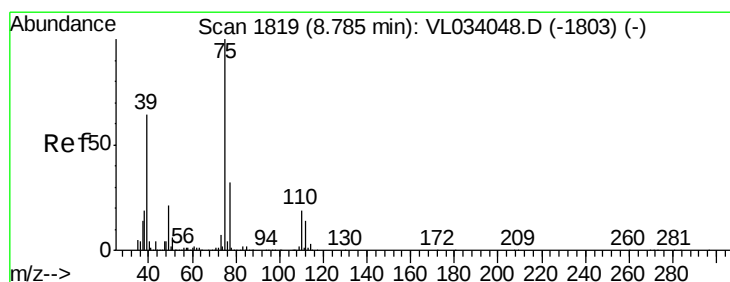
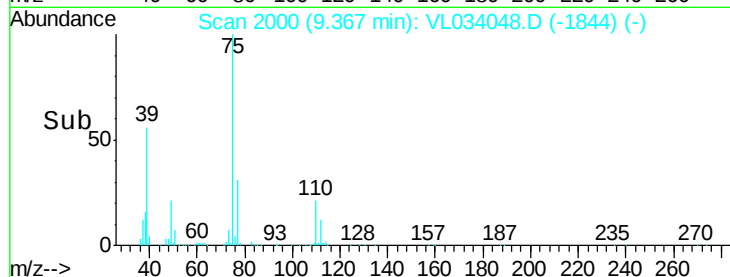
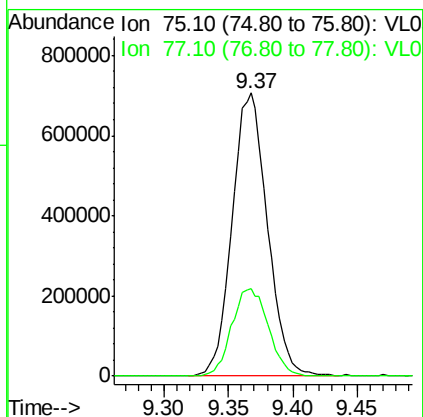
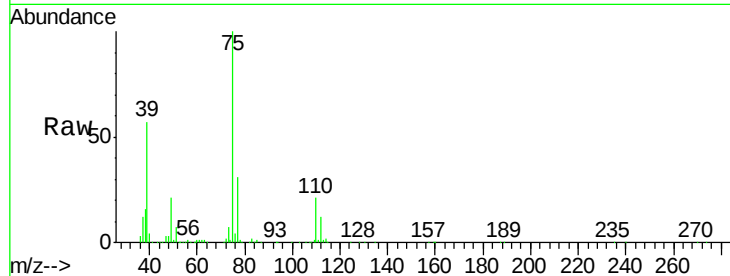
ClientSampleId :

VSTDICCC010

Manual Integrations
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MMdadoda

8/2/2019 9:37:33 AM



#46

cis-1,3-Dichloropropene

Concen: 8.482 ppbv

RT: 8.79 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

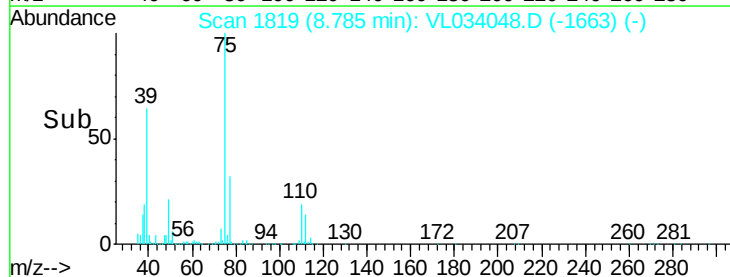
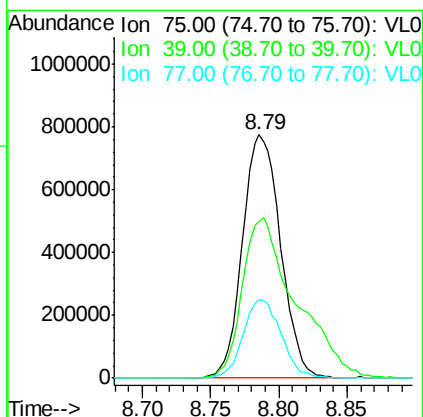
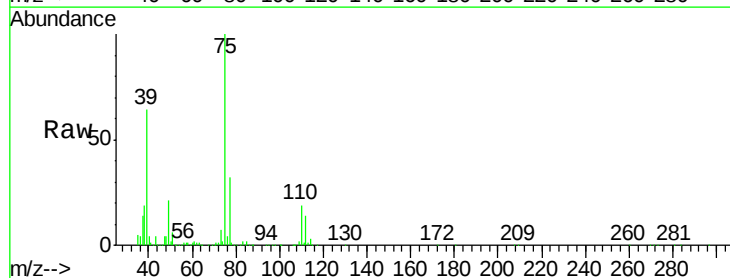
Tgt Ion: 75 Resp: 1501570

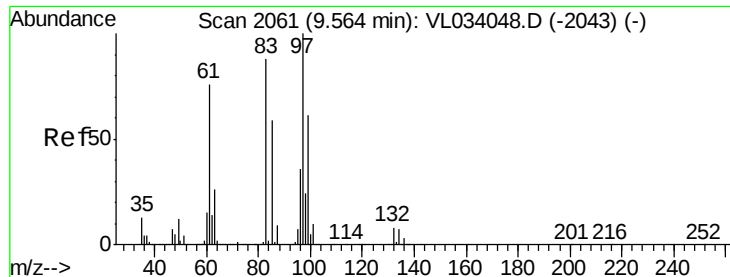
Ion Ratio Lower Upper

75 100

39 64.3 51.4 77.2

77 32.2 25.8 38.6





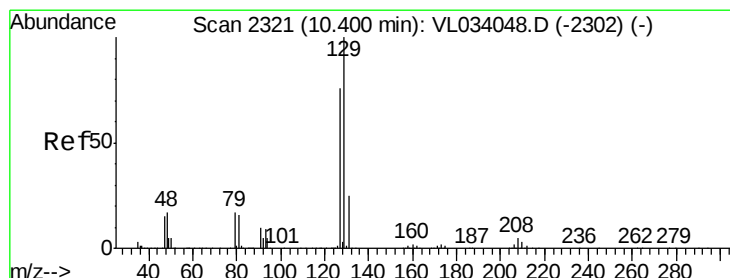
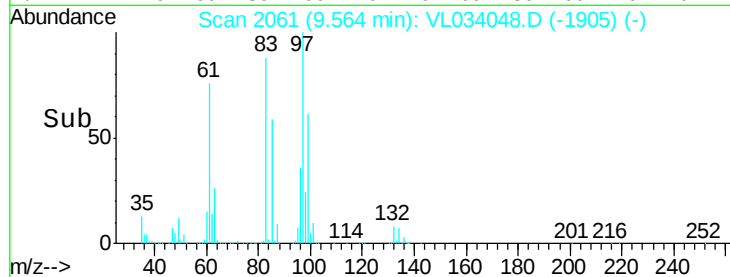
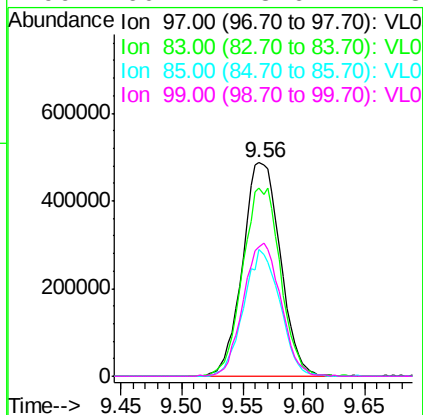
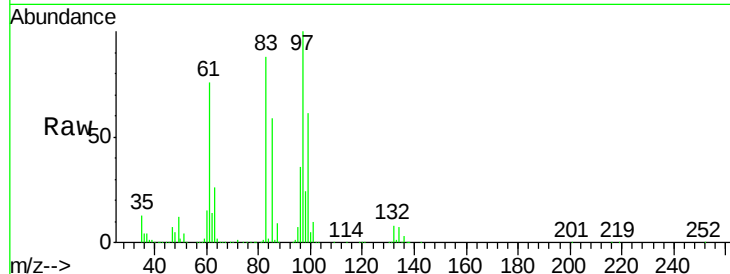
#47
 1,1,2-Trichloroethane
 Concen: 7.141 ppbv
 RT: 9.56 min Scan# 2061
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.3	70.6	106.0
85	59.1	47.3	70.9
99	60.7	48.6	72.8

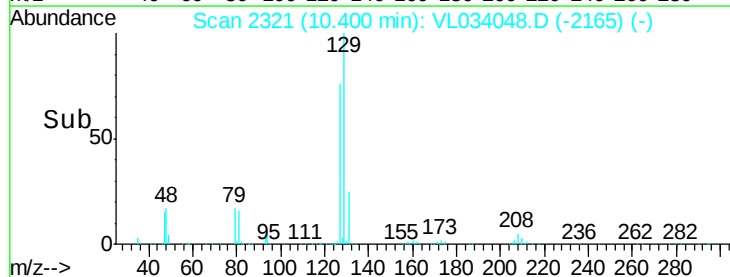
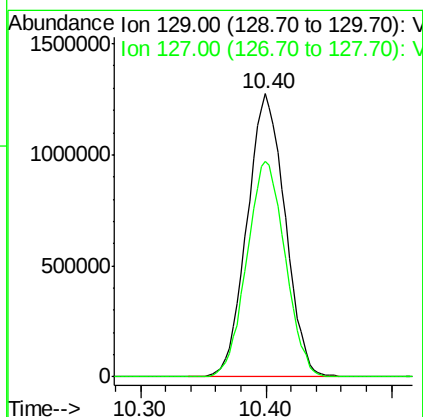
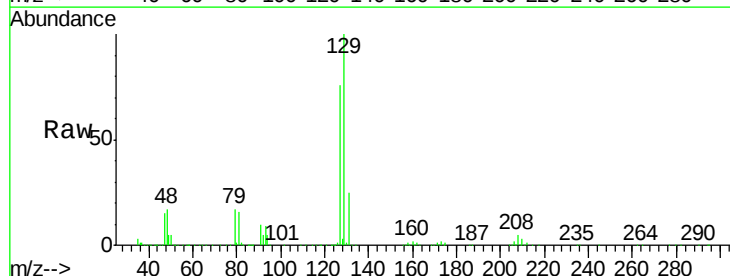
Manual Integrations
 APPROVED

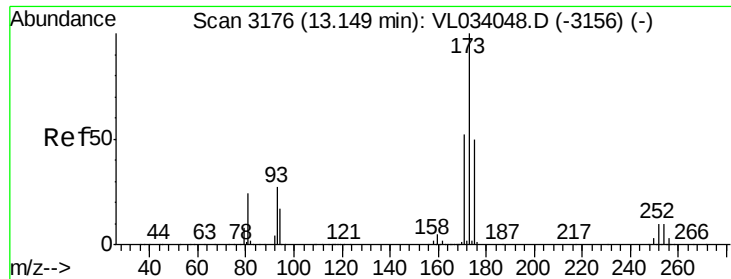
MMDadoda
 8/2/2019 9:37:33 AM



#48
 Dibromochloromethane
 Concen: 9.138 ppbv
 RT: 10.40 min Scan# 2321
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.8





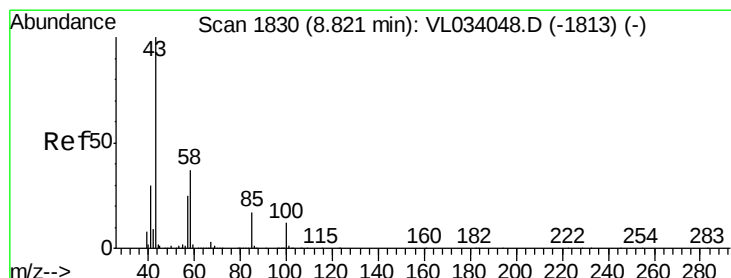
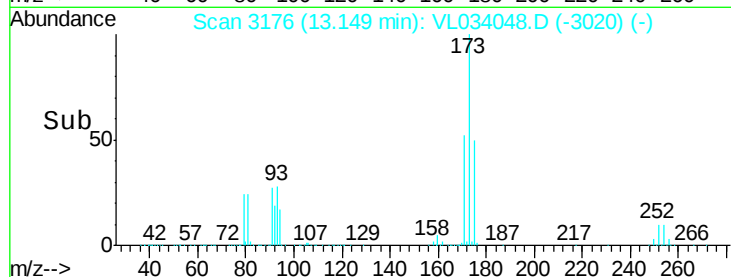
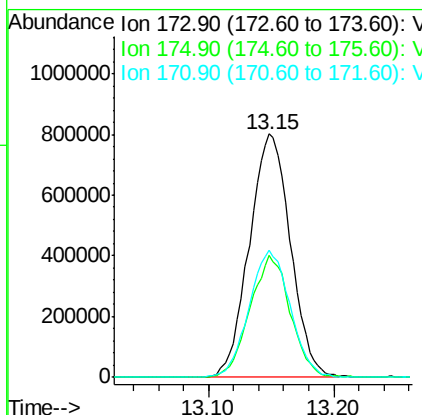
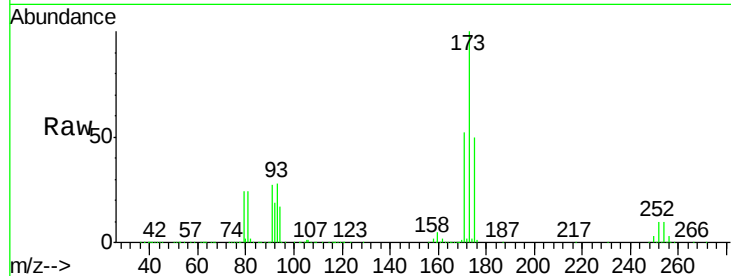
#49
Bromoform
Concen: 7.679 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:173 Resp: 1826569
Ion Ratio Lower Upper
173 100
175 49.2 39.4 59.0
171 52.4 41.9 62.9

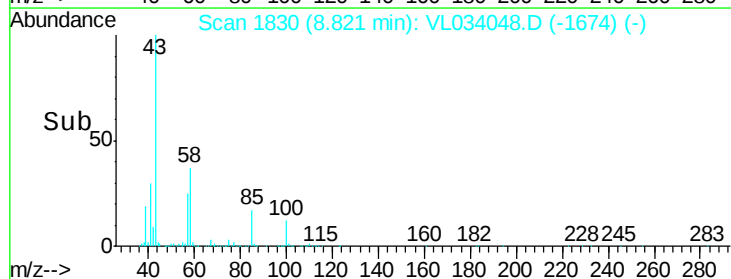
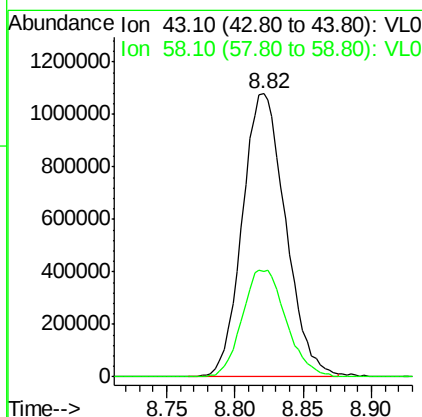
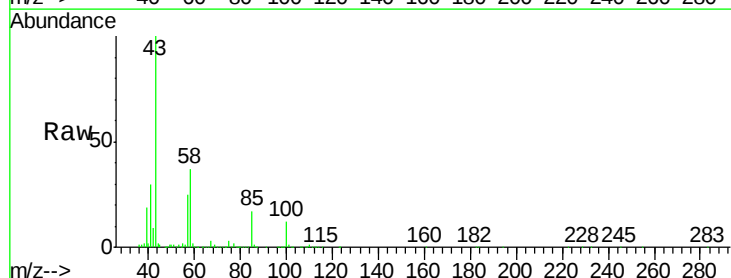
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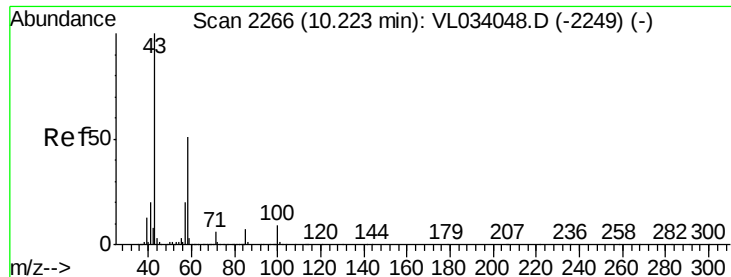
MMdadoda
8/2/2019 9:37:33 AM



#50
4-Methyl-2-Pentanone
Concen: 7.621 ppbv
RT: 8.82 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Tgt Ion: 43 Resp: 2376489
Ion Ratio Lower Upper
43 100
58 38.4 30.7 46.1





#51

2-Hexanone

Concen: 10.199 ppbv

RT: 10.22 min Scan# 2266

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2718658

Ion Ratio Lower Upper

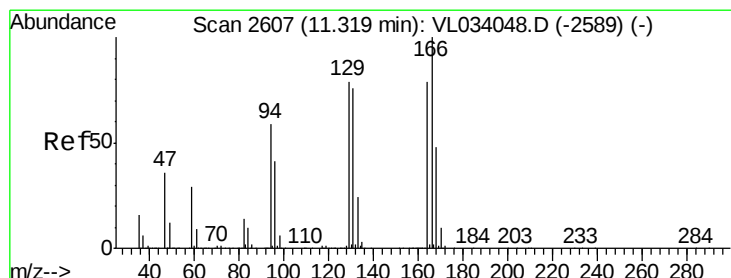
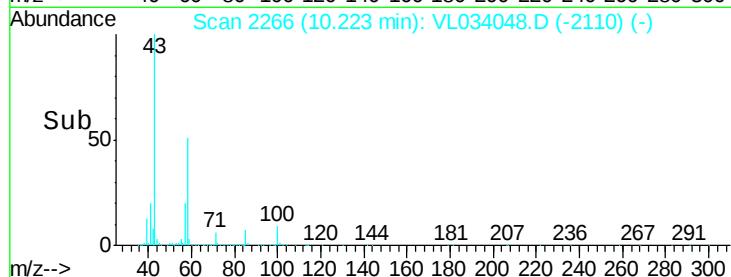
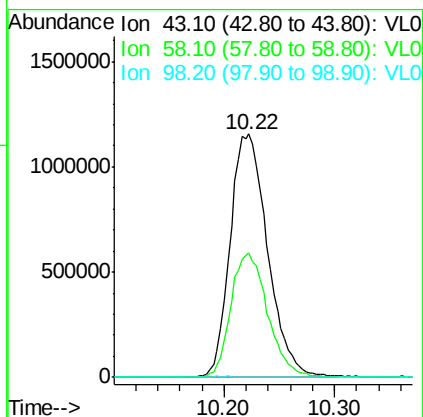
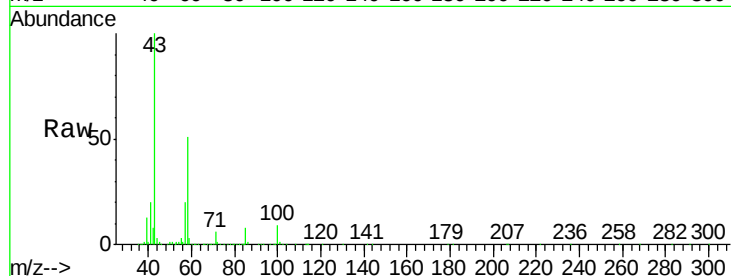
43 100

58 50.2 40.2 60.2

98 0.5 0.4 0.6

Manual Integrations
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#52

Tetrachloroethene

Concen: 7.227 ppbv

RT: 11.32 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Tgt Ion: 164 Resp: 985745

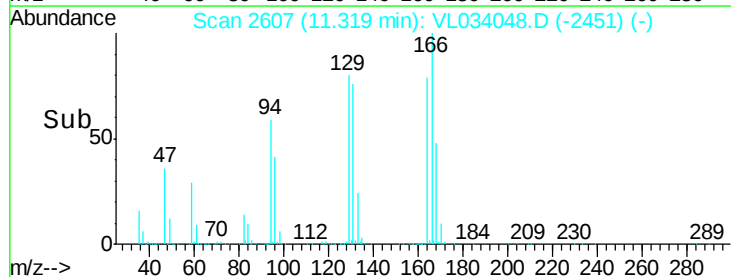
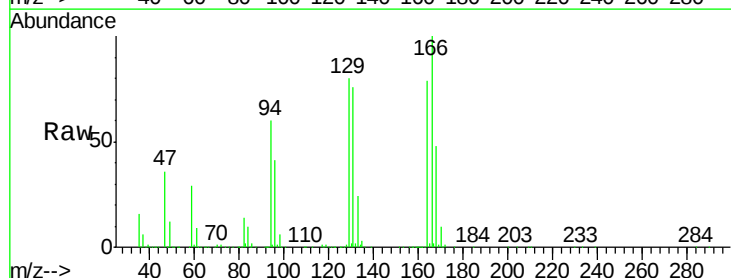
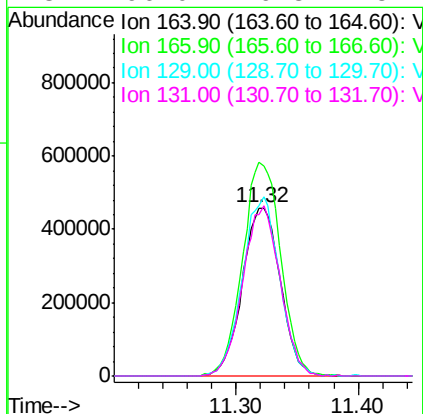
Ion Ratio Lower Upper

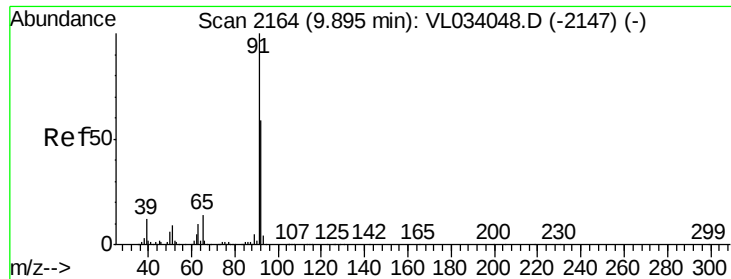
164 100

166 127.0 101.6 152.4

129 100.9 80.7 121.1

131 96.0 76.8 115.2





#53

Toluene

Concen: 8.243 ppbv

RT: 9.89 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2910928

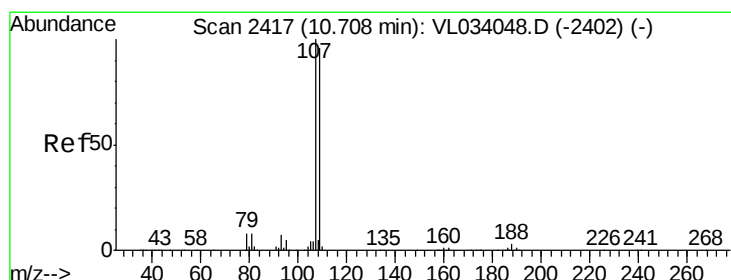
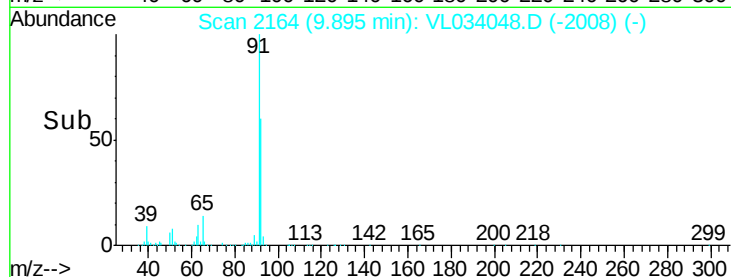
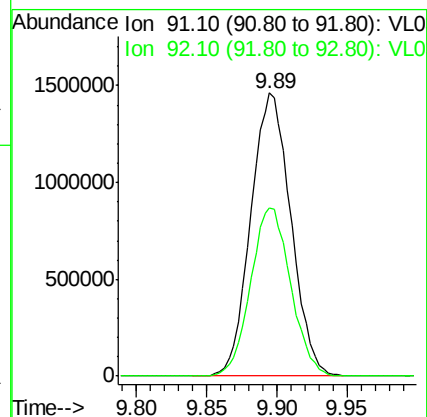
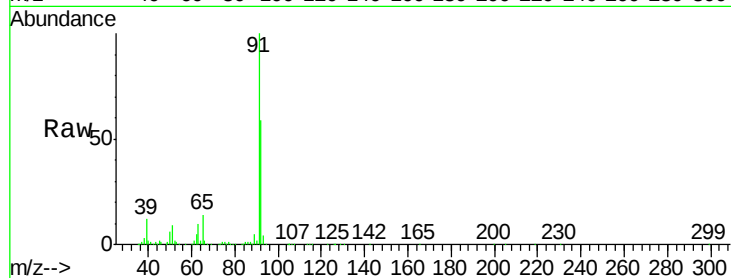
Ion Ratio Lower Upper

91 100

92 59.3 47.4 71.2

Manual Integrations
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8/2/2019 9:37:33 AM



#54

1,2-Dibromoethane

Concen: 7.435 ppbv

RT: 10.71 min Scan# 2417

Delta R.T. 0.00 min

Lab File: VL034048.D

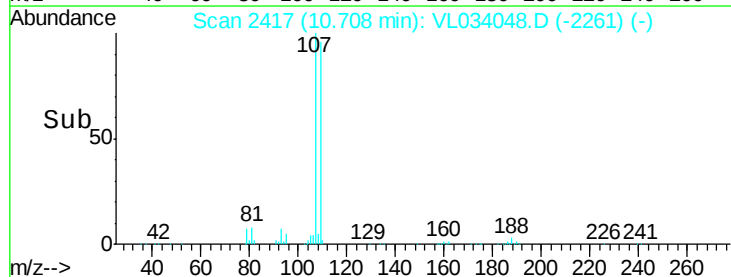
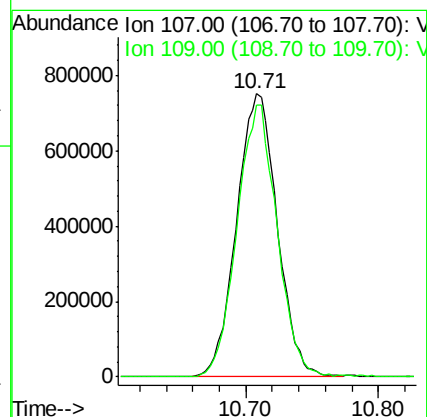
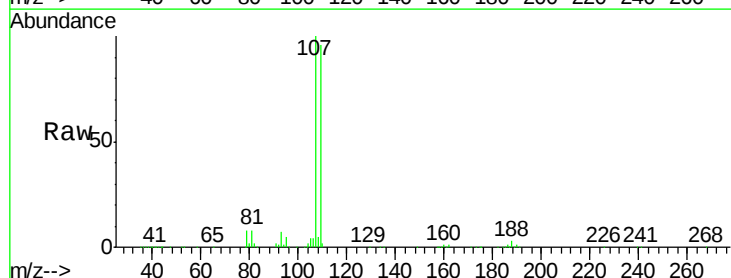
Acq: 30 Jul 2019 2:07

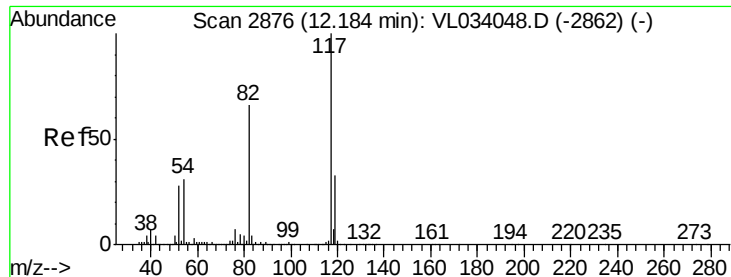
Tgt Ion: 107 Resp: 1589676

Ion Ratio Lower Upper

107 100

109 95.8 76.6 115.0





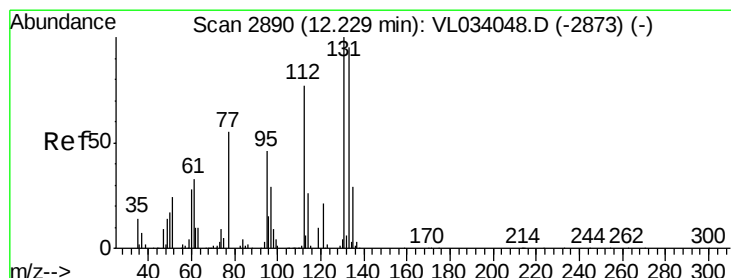
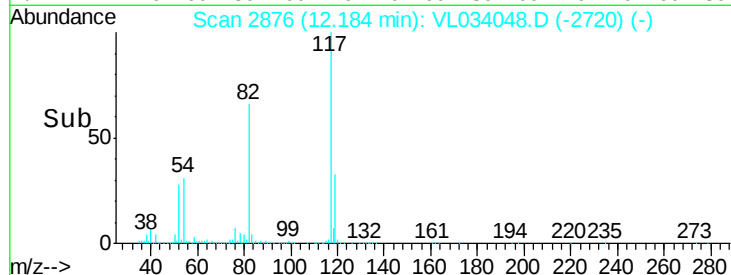
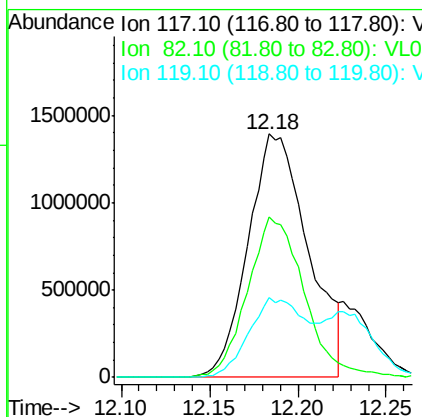
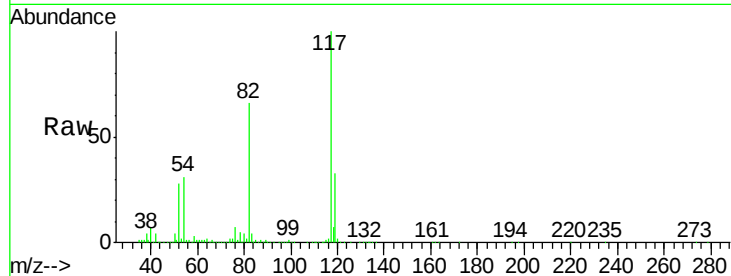
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.18 min Scan# 2876
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.3	49.8	74.8
119	32.6	43.0	64.6

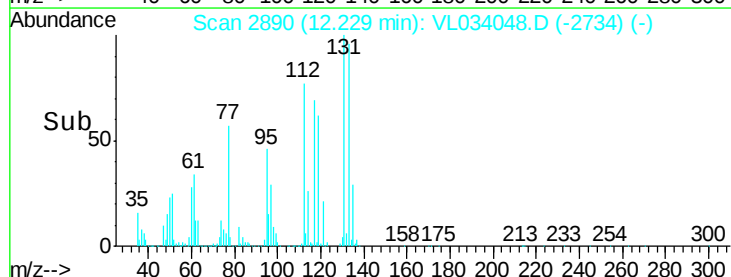
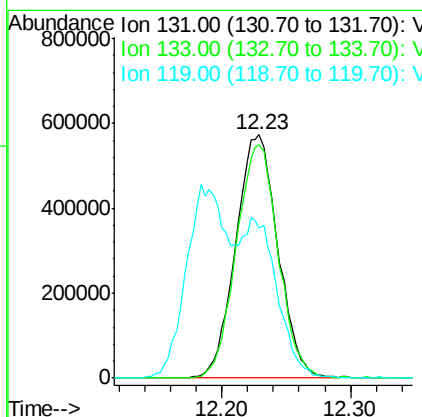
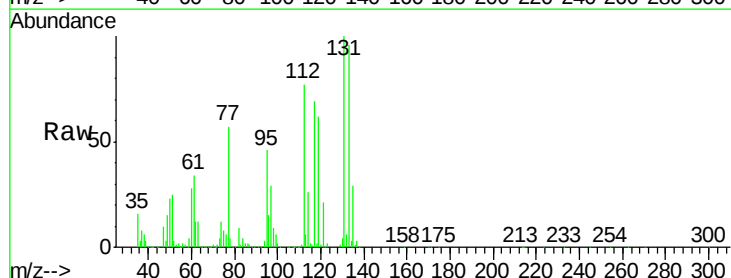
Manual Integrations
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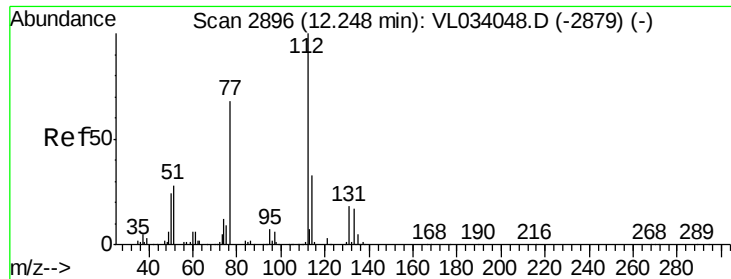
MMdadoda
8/2/2019 9:37:33 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.986 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	76.6	114.8
119	58.2	46.6	69.8





#57

Chlorobenzene

Concen: 8.844 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 2283096

Ion Ratio Lower Upper

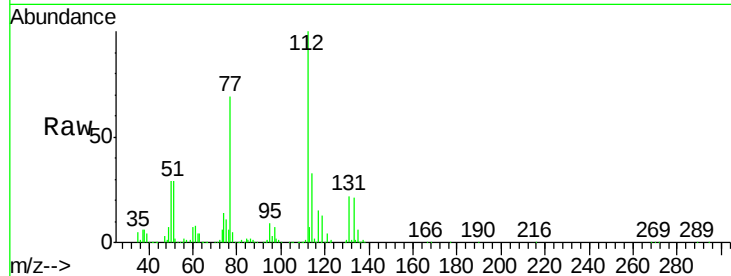
112 100

77 68.9 55.1 82.7

114 32.8 29.5 36.1

Manual Integrations
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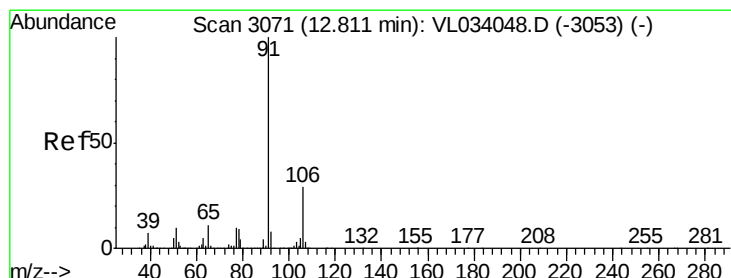
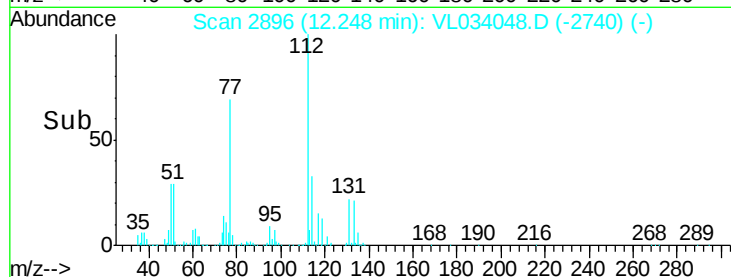
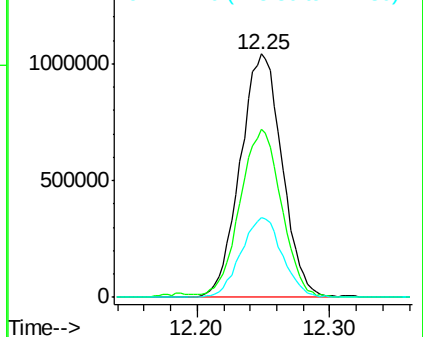
MMDadoda
8/2/2019 9:37:33 AM



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: 10.424 ppbv

RT: 12.81 min Scan# 3071

Delta R.T. 0.00 min

Lab File: VL034048.D

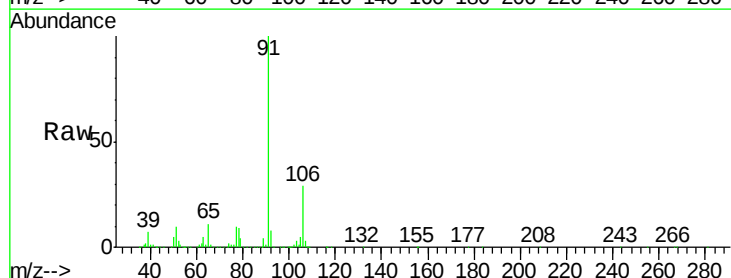
Acq: 30 Jul 2019 2:07

Tgt Ion: 91 Resp: 4065681

Ion Ratio Lower Upper

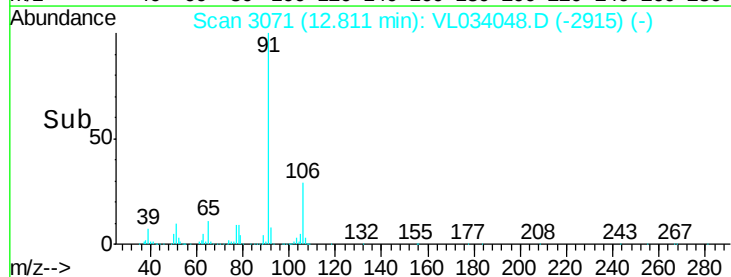
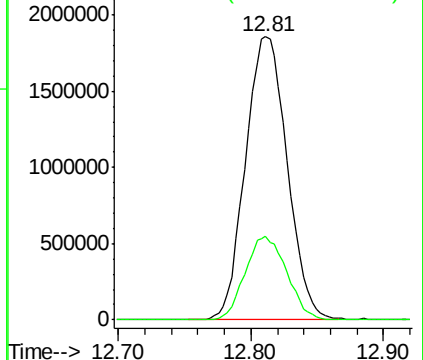
91 100

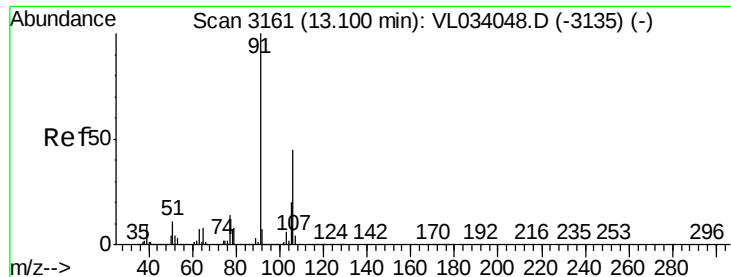
106 29.4 23.5 35.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





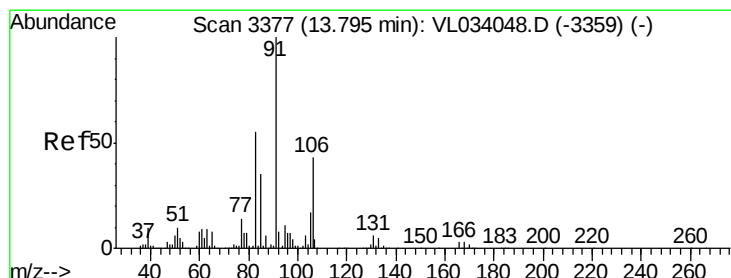
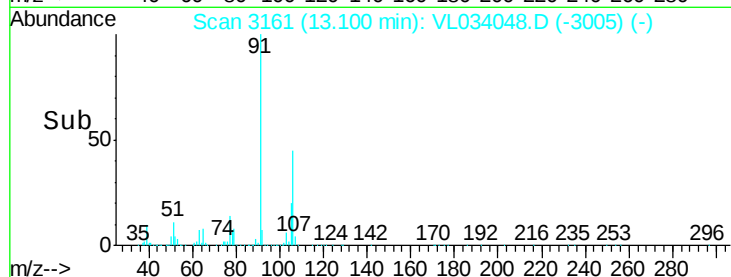
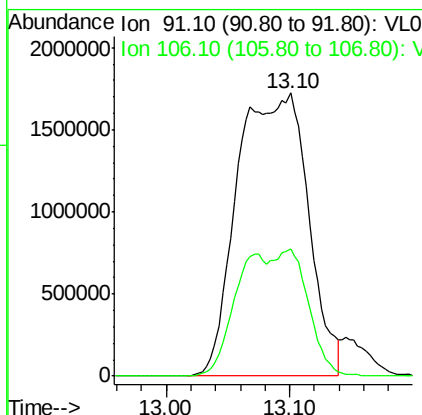
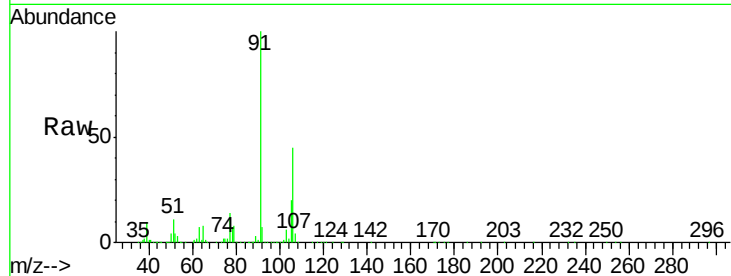
#59
m/p-Xylene
Concen: 19.289 ppbv m
RT: 13.10 min Scan# 3161
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 6815969
Ion Ratio Lower Upper
91 100
106 43.9 35.1 52.7

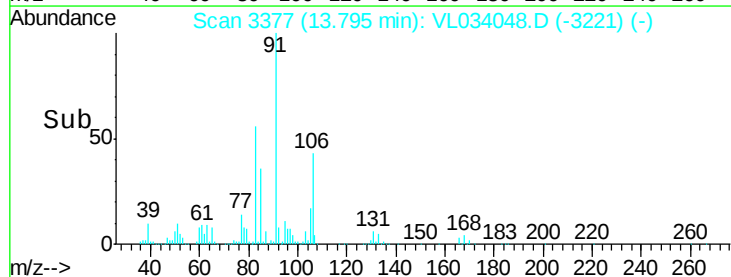
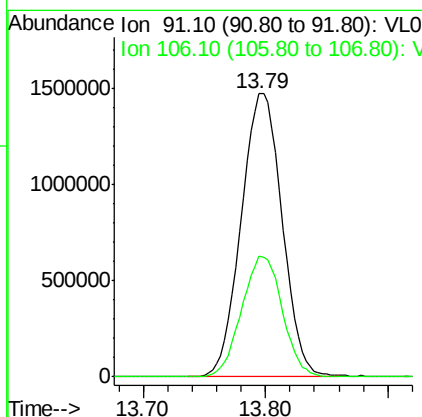
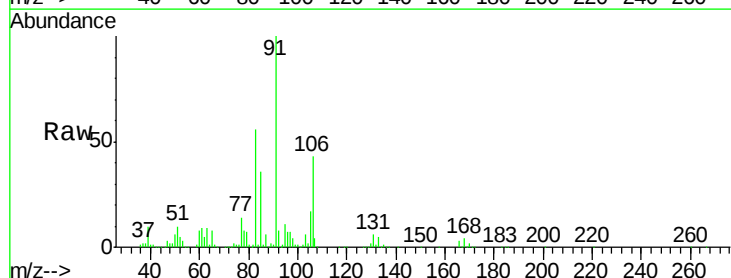
Manual Integrations
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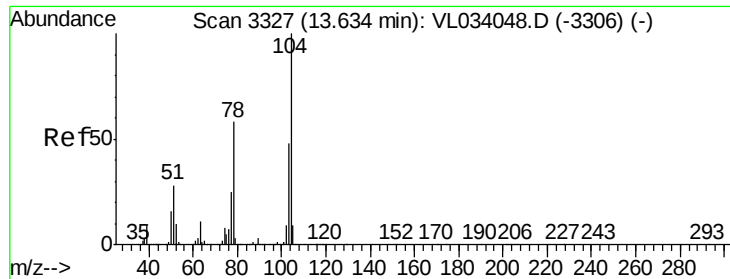
MMDadoda
8/2/2019 9:37:33 AM



#60
o-Xylene
Concen: 9.638 ppbv
RT: 13.79 min Scan# 3377
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Tgt Ion: 91 Resp: 3417035
Ion Ratio Lower Upper
91 100
106 42.4 21.2 63.6





#61

Stvrene

Concen: 10.810 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:104 Resp: 2519630

Ion Ratio Lower Upper

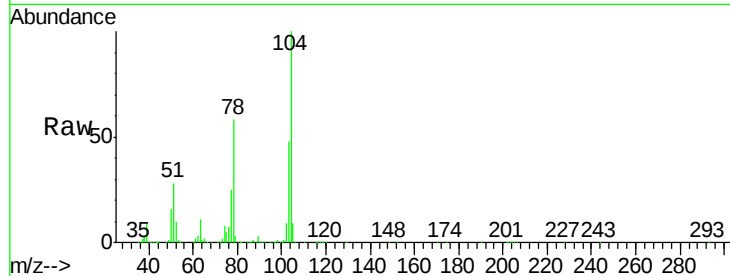
104 100

78 55.5 44.3 66.5

103 48.4 38.8 58.2

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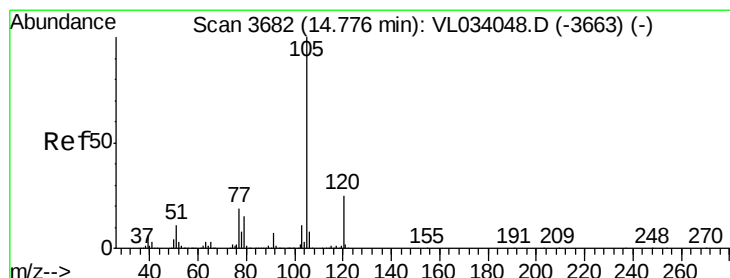
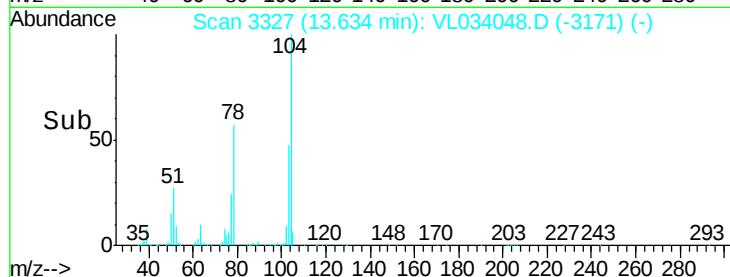
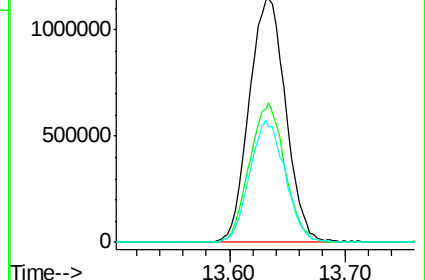
MMdadoda
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.869 ppbv

RT: 14.78 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VL034048.D

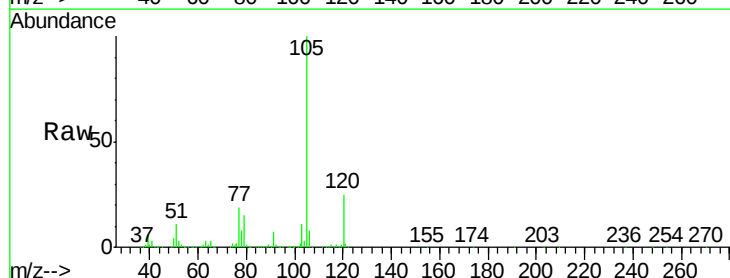
Acq: 30 Jul 2019 2:07

Tgt Ion:105 Resp: 4541331

Ion Ratio Lower Upper

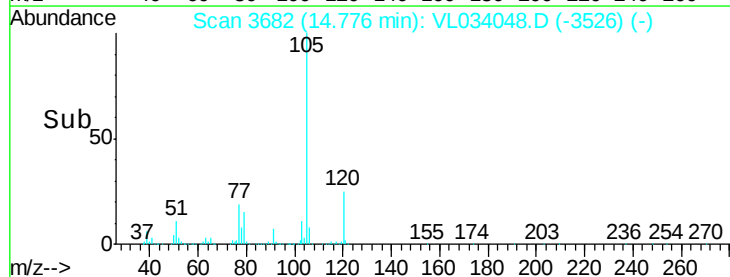
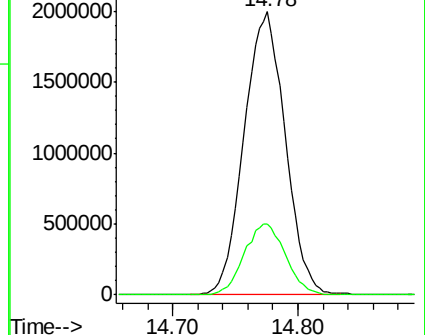
105 100

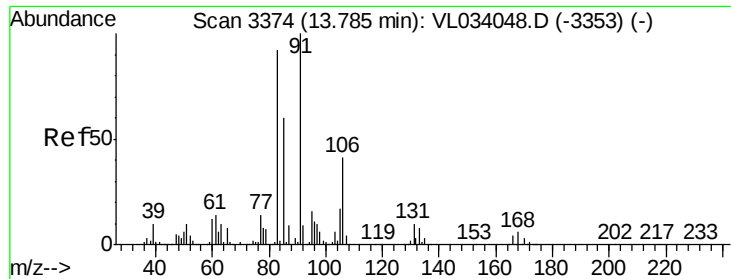
120 25.2 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





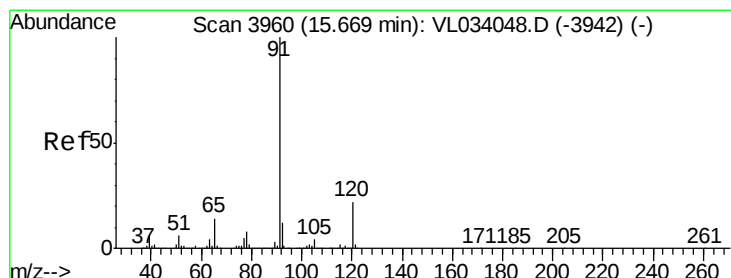
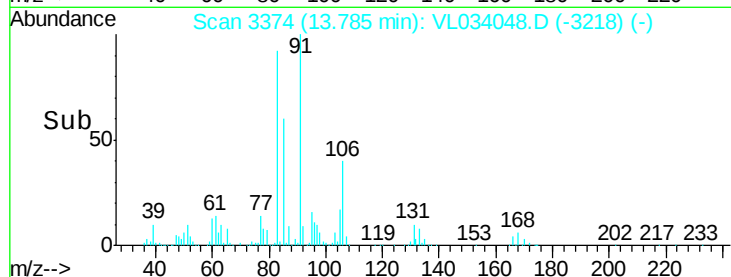
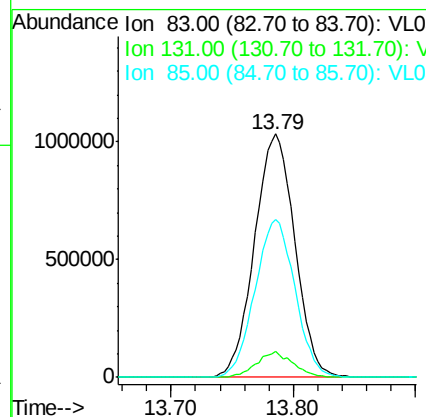
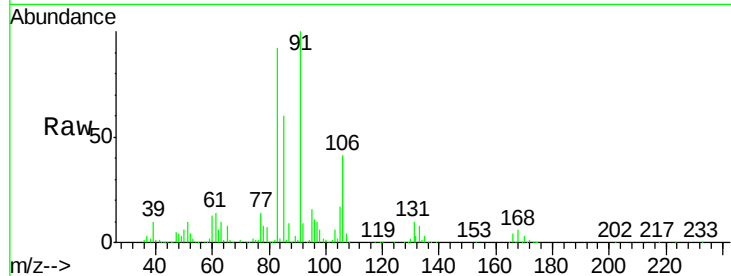
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.582 ppbv
 RT: 13.79 min Scan# 3374
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 83 Resp: 2361346
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.4
 85 64.7 32.4 97.0

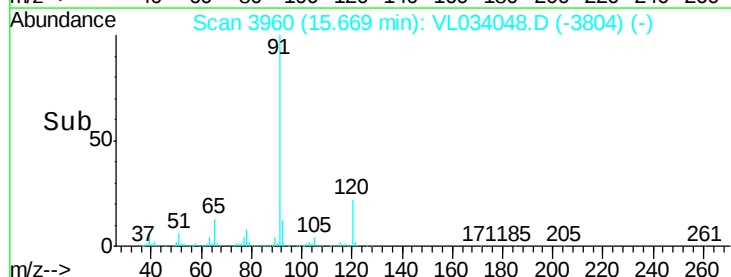
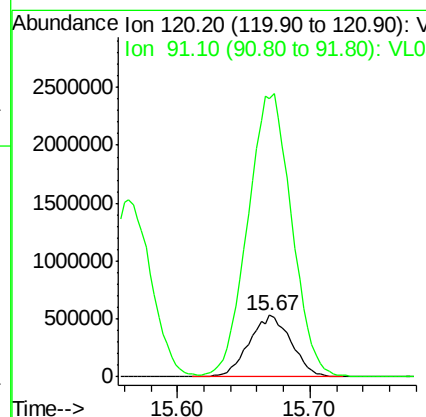
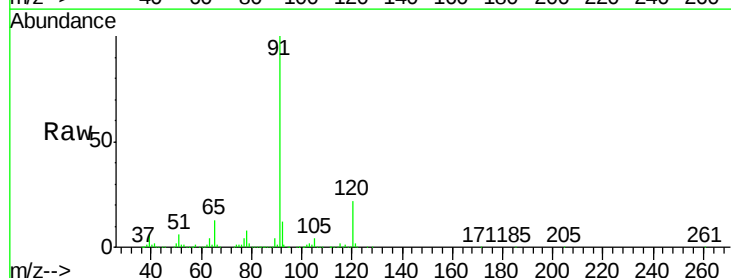
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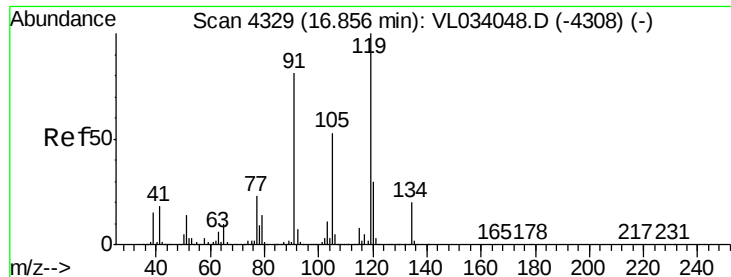
MMdadoda
 8/2/2019 9:37:33 AM



#64
 n-propylbenzene
 Concen: 8.814 ppbv
 RT: 15.67 min Scan# 3960
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion:120 Resp: 1167303
 Ion Ratio Lower Upper
 120 100
 91 482.7 386.2 579.2





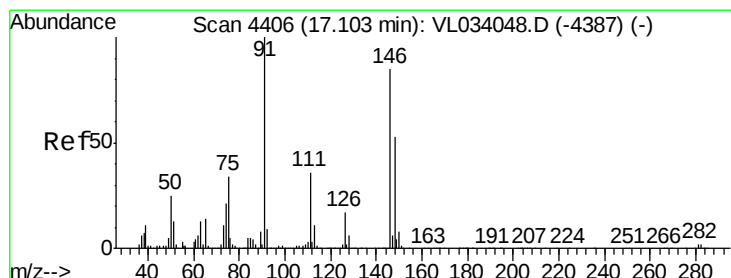
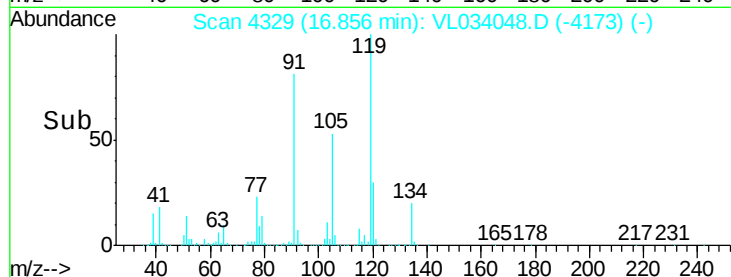
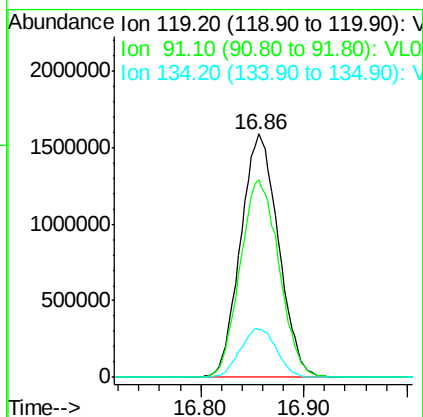
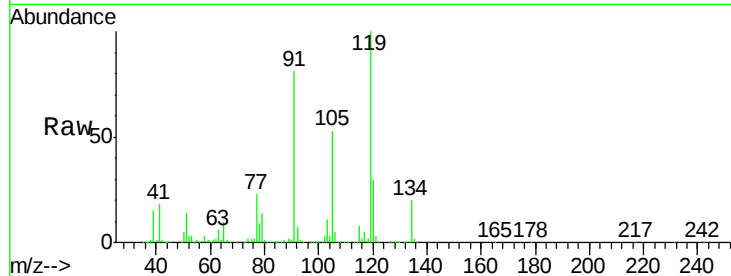
#65
tert-Butylbenzene
Concen: 9.381 ppbv
RT: 16.86 min Scan# 4329
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 119 Resp: 4049817
Ion Ratio Lower Upper
119 100
91 83.6 66.9 100.3
134 19.4 15.5 23.3

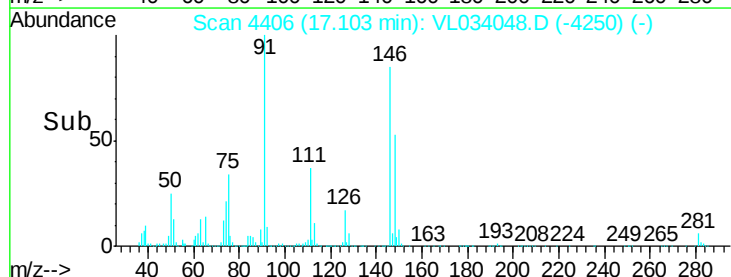
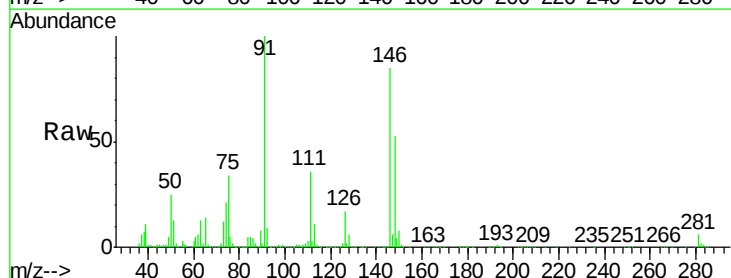
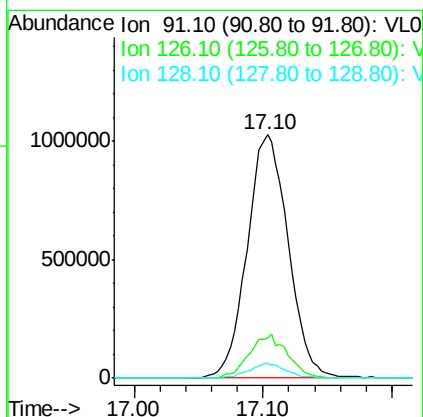
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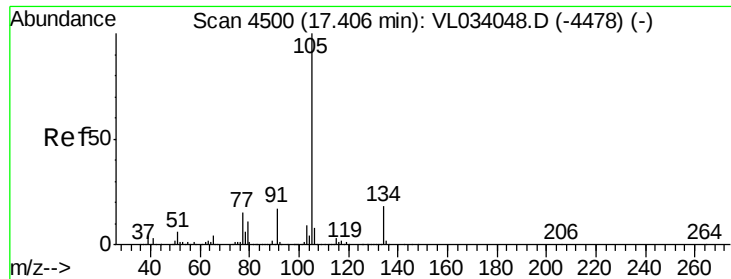
MMdadoda
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#66
Benzyl Chloride
Concen: 10.395 ppbv
RT: 17.10 min Scan# 4406
Delta R.T. 0.00 min
Lab File: VL034048.D
Acq: 30 Jul 2019 2:07

Tgt Ion: 91 Resp: 2269425
Ion Ratio Lower Upper
91 100
126 16.9 13.5 20.3
128 5.6 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.335 ppbv

RT: 17.41 min Scan# 4500

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 5687579

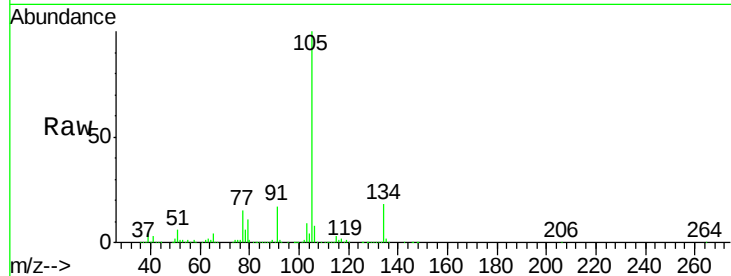
Ion Ratio Lower Upper

105 100

134 18.0 14.3 21.5

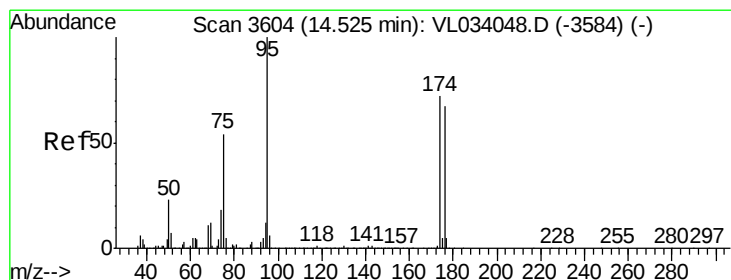
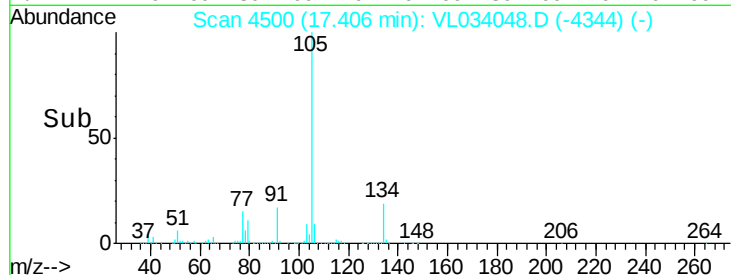
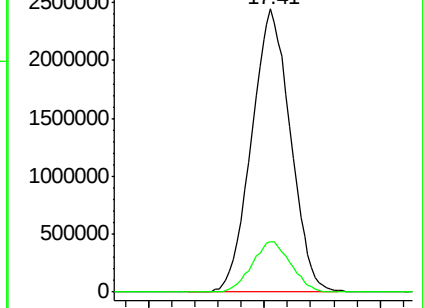
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.326 ppbv

RT: 14.52 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

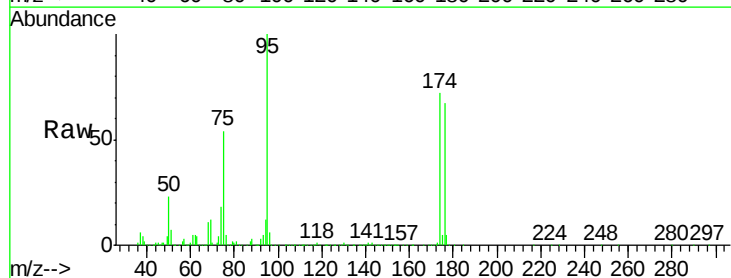
Tgt Ion: 95 Resp: 2522016

Ion Ratio Lower Upper

95 100

174 72.0 57.6 86.4

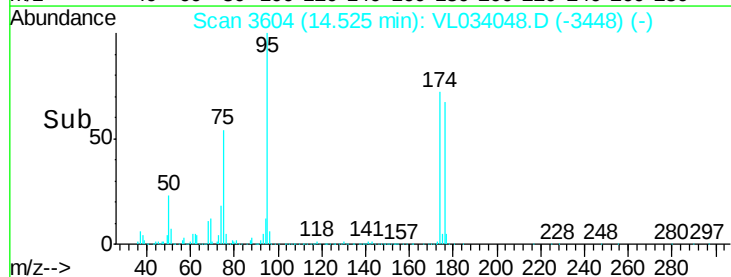
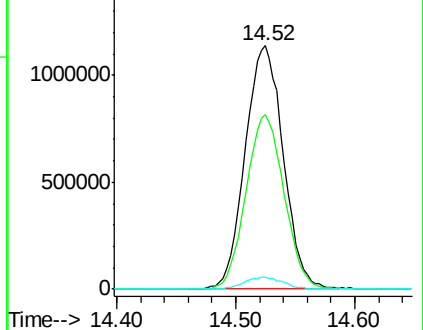
175 5.1 4.1 6.1

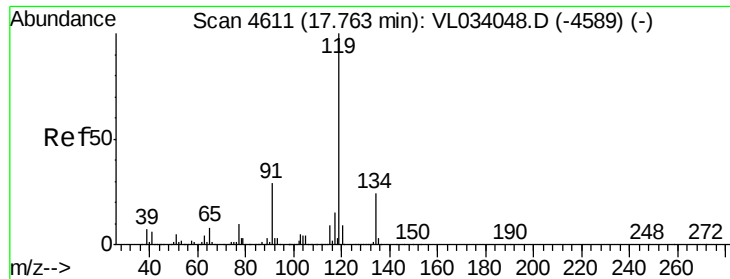


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





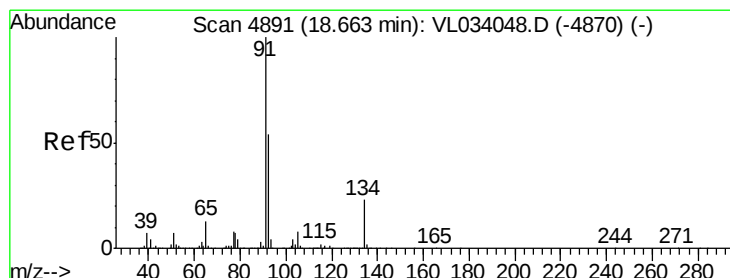
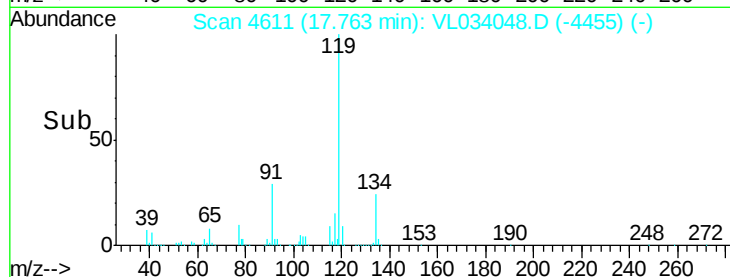
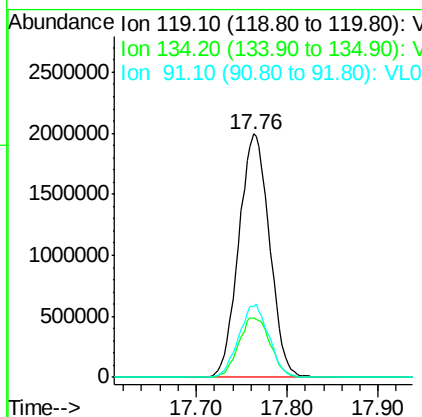
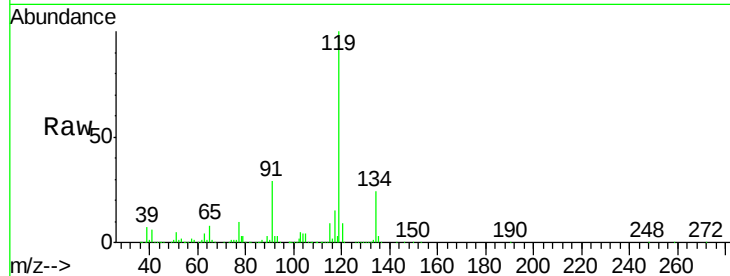
#69
 p-Isopropyltoluene
 Concen: 9.344 ppbv
 RT: 17.76 min Scan# 4611
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.1	30.1
91	29.5	23.6	35.4

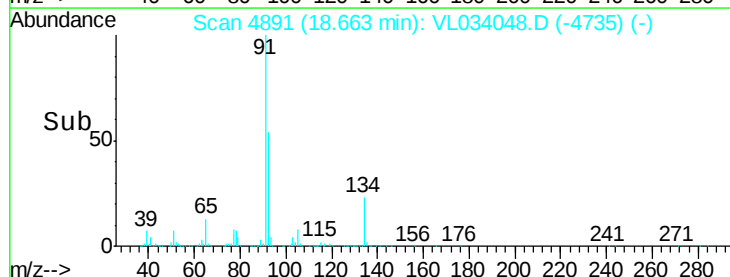
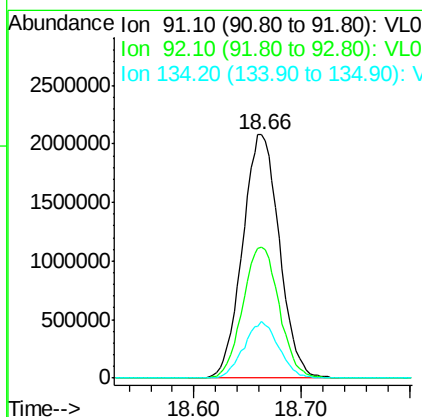
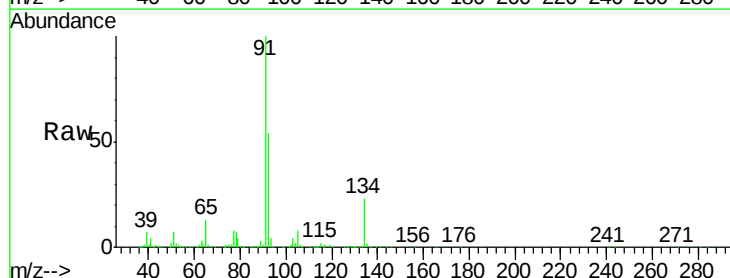
Manual Integrations
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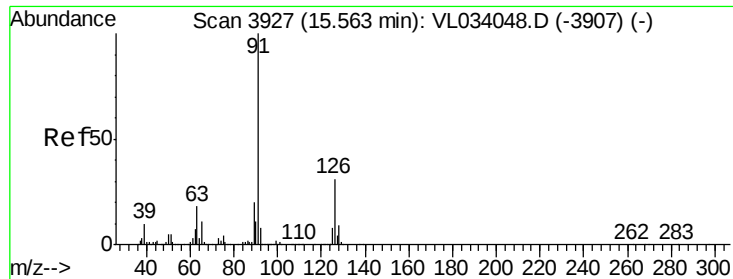
MMdadoda
 8/2/2019 9:37:33 AM



#70
 n-Butylbenzene
 Concen: 9.327 ppbv
 RT: 18.66 min Scan# 4891
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.6	64.0
134	22.1	17.7	26.5





#71

2-Chlorotoluene

Concen: 9.273 ppbv

RT: 15.56 min Scan# 3927

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 3458042

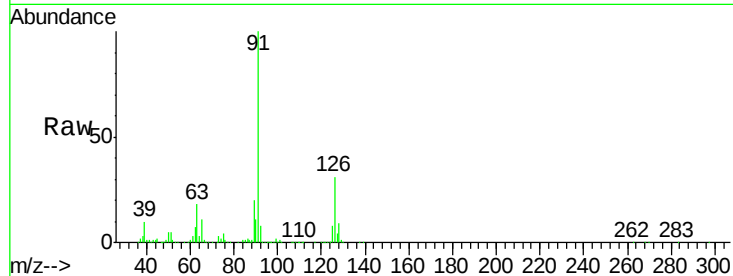
Ion Ratio Lower Upper

91 100

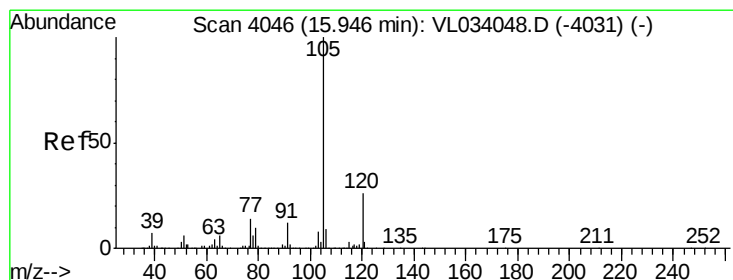
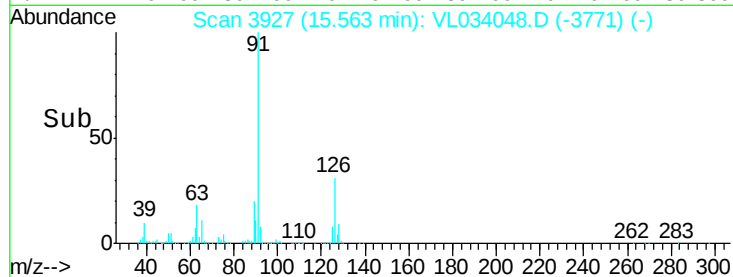
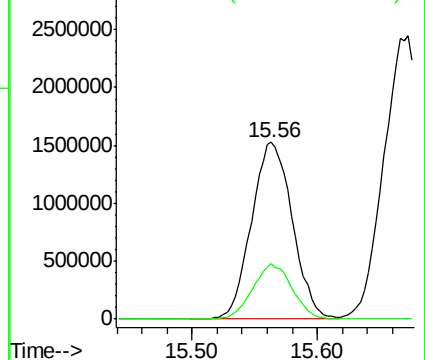
126 30.1 12.0 48.2

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Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.458 ppbv

RT: 15.95 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Tgt Ion: 105 Resp: 4063119

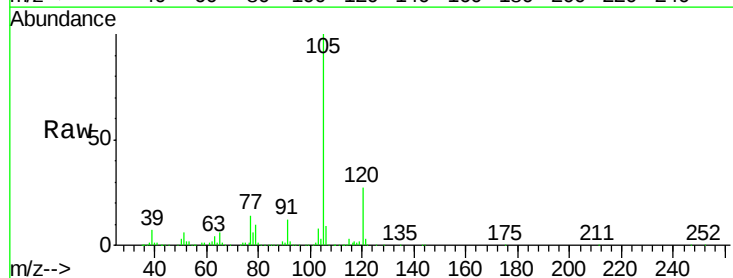
Ion Ratio Lower Upper

105 100

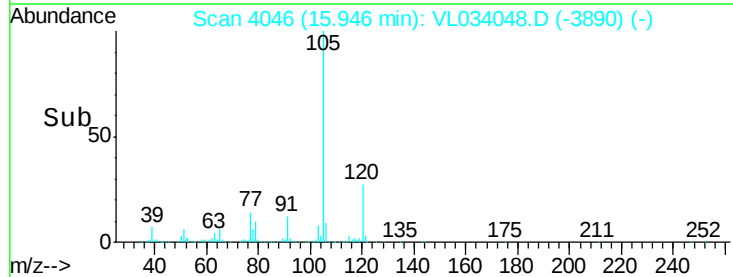
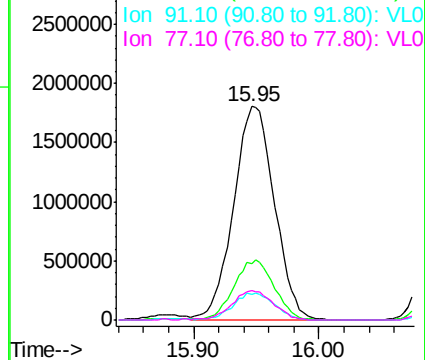
120 28.2 23.0 34.4

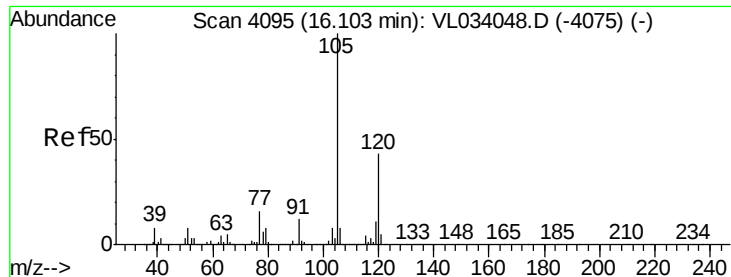
91 12.8 10.6 16.0

77 14.0 11.5 17.3



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.770 ppbv

RT: 16.10 min Scan# 4095

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 3870831

Ion Ratio Lower Upper

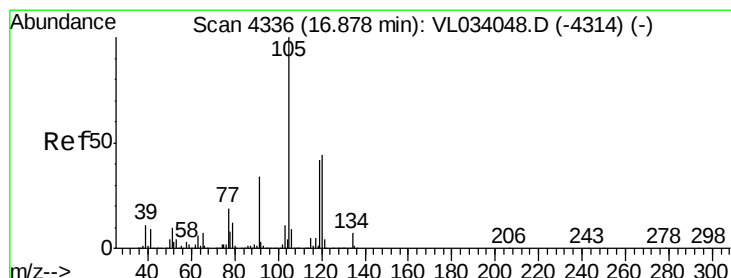
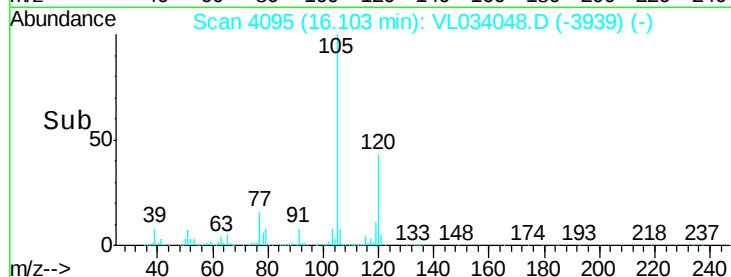
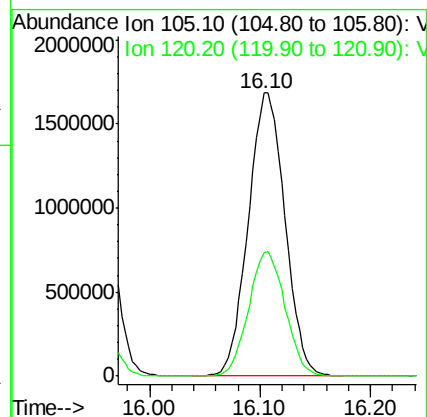
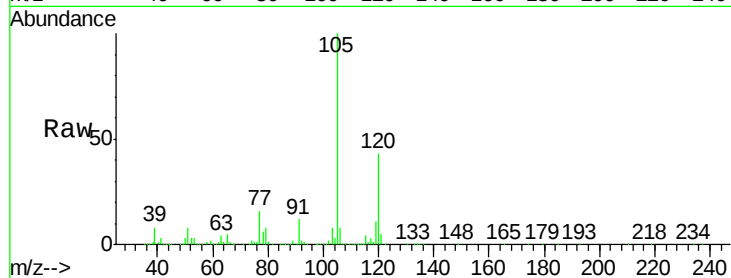
105 100

120 43.4 34.7 52.1

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#74

1,2,4-Trimethylbenzene

Concen: 9.031 ppbv

RT: 16.88 min Scan# 4336

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Tgt Ion:105 Resp: 3961528

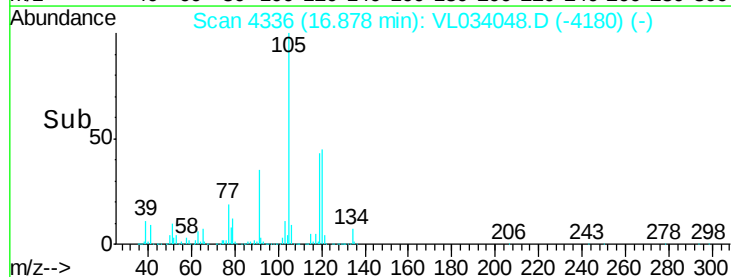
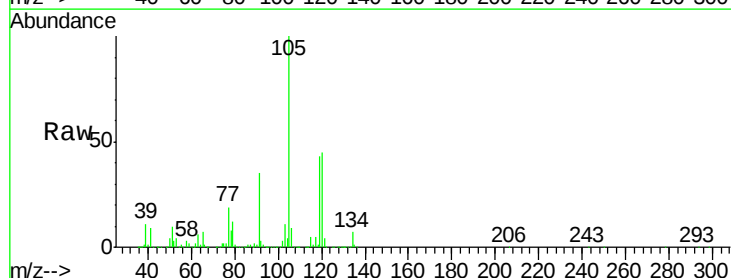
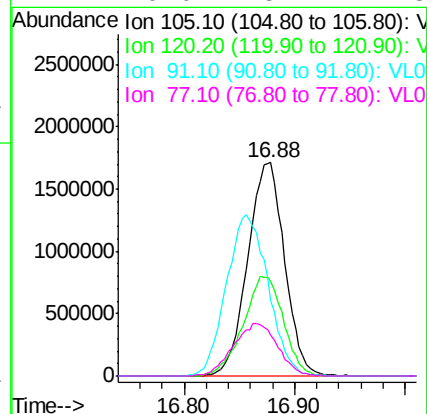
Ion Ratio Lower Upper

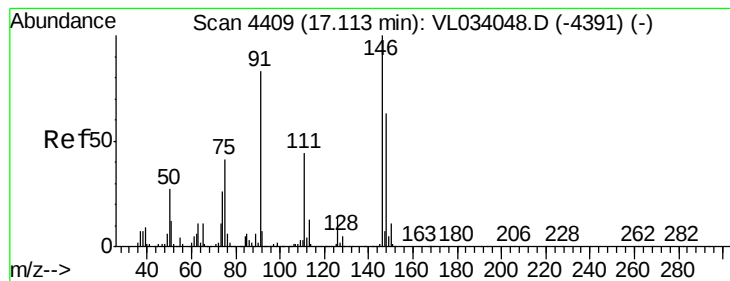
105 100

120 44.5 35.6 53.4

91 35.0 28.0 42.0

77 19.0 15.2 22.8





#75

1,3-Dichlorobenzene

Concen: 8.429 ppbv

RT: 17.11 min Scan# 4409

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 2358644

Ion Ratio Lower Upper

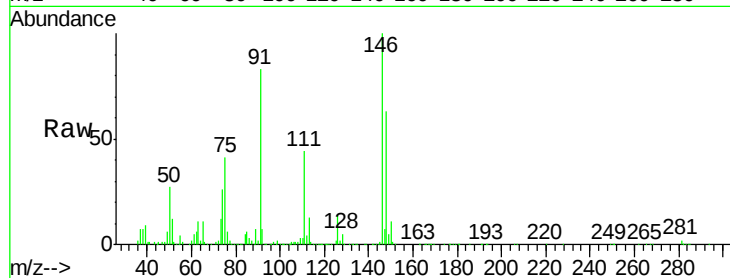
146 100

111 44.3 22.1 66.5

148 64.1 32.0 96.2

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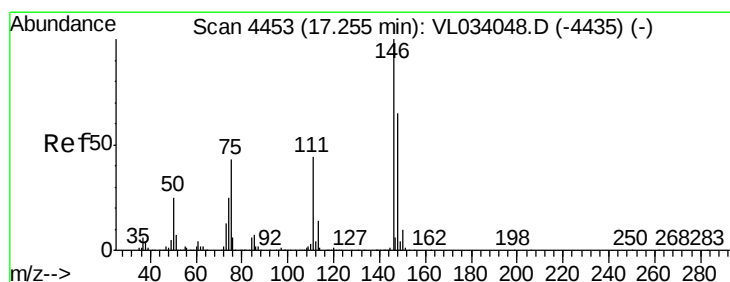
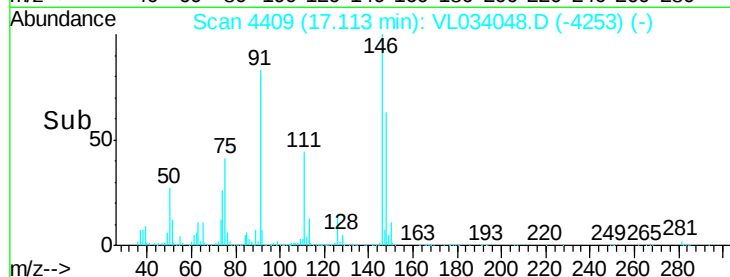
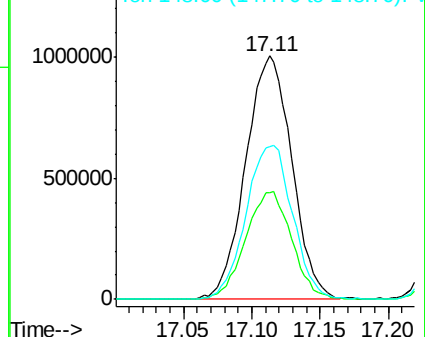
MMdadoda
8/2/2019 9:37:33 AM



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: 8.781 ppbv

RT: 17.25 min Scan# 4453

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

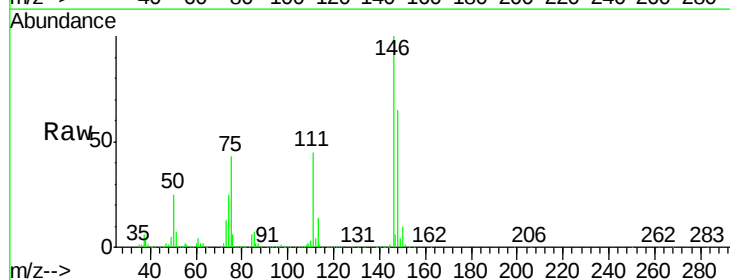
Tgt Ion:146 Resp: 2312837

Ion Ratio Lower Upper

146 100

111 43.6 21.8 65.4

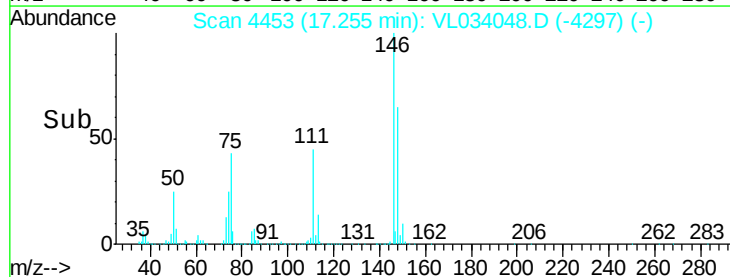
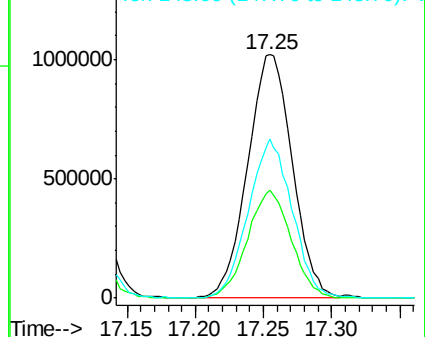
148 64.6 32.3 96.9

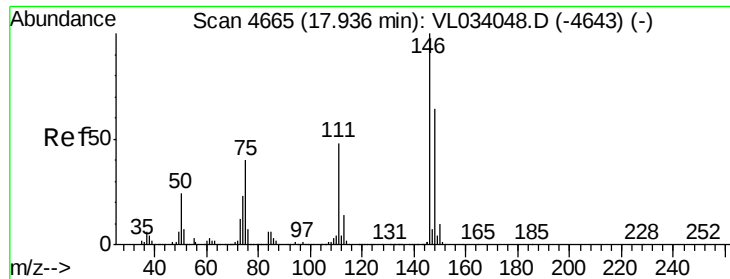


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





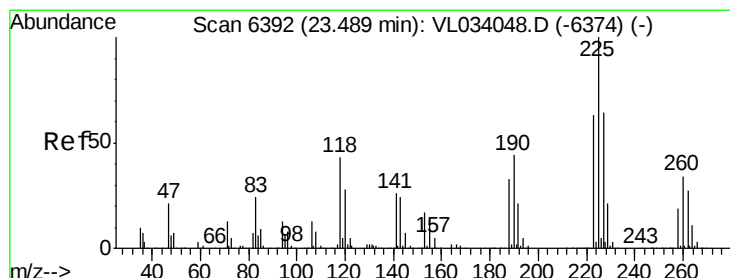
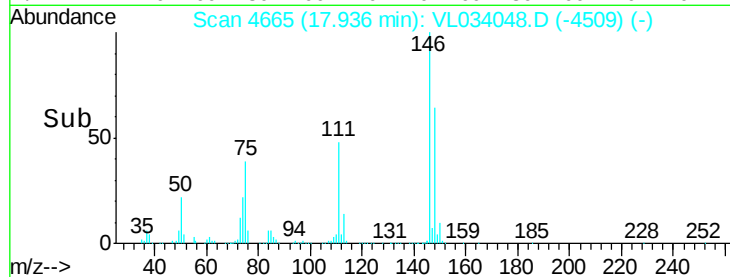
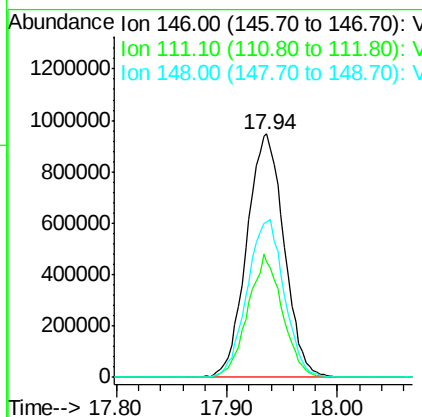
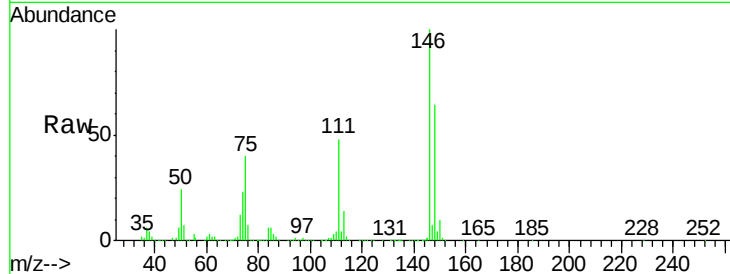
#77
 1,2-Dichlorobenzene
 Concen: 8.574 ppbv
 RT: 17.94 min Scan# 4665
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 2217395
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.4 70.2
 148 64.6 32.3 96.9

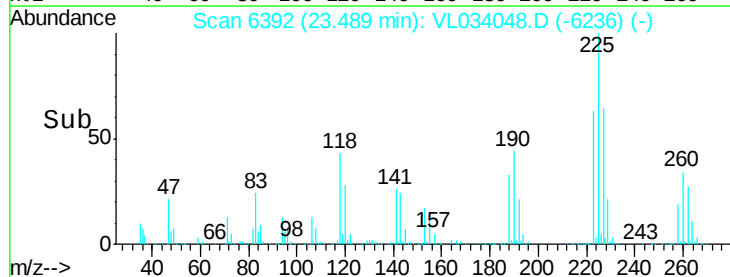
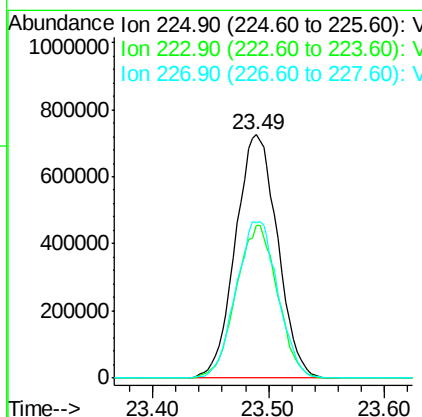
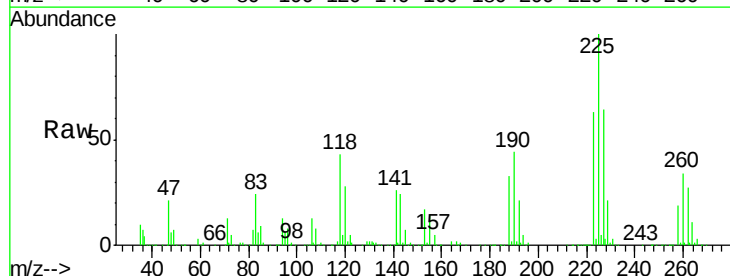
Manual Integrations
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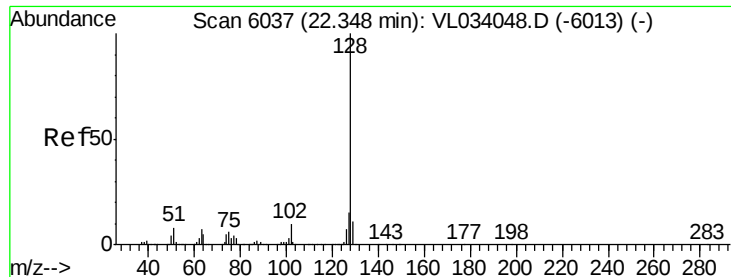
MMdadoda
 8/2/2019 9:37:33 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.083 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Tgt Ion:225 Resp: 1824364
 Ion Ratio Lower Upper
 225 100
 223 61.9 49.6 74.4
 227 64.3 51.4 77.2





#79

Naphthalene

Concen: 9.910 ppbv

RT: 22.35 min Scan# 6037

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 3660498

Ion Ratio Lower Upper

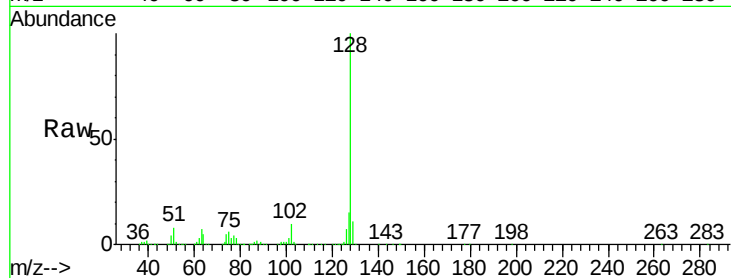
128 100

127 14.7 11.8 17.6

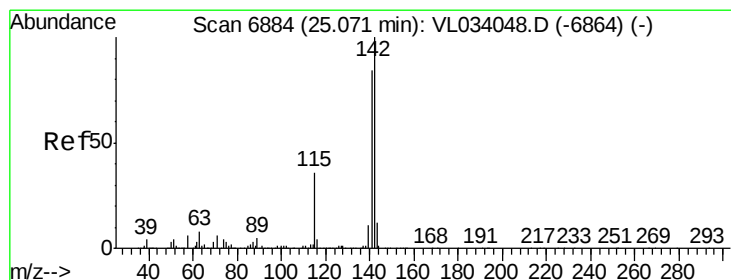
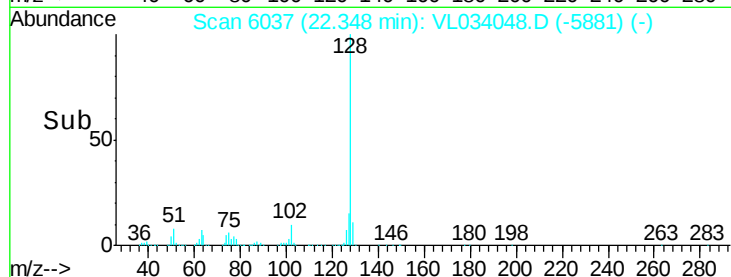
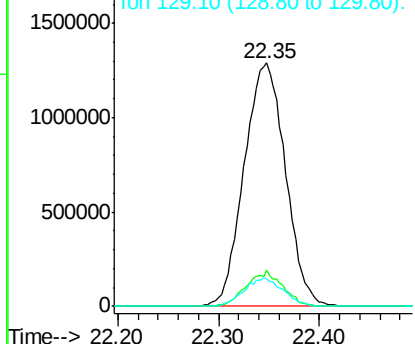
129 11.4 9.1 13.7

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APPROVED

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8/2/2019 9:37:33 AM



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



#80

Naphthalene, 2-methyl-

Concen: 8.834 ppbv

RT: 25.07 min Scan# 6884

Delta R.T. 0.00 min

Lab File: VL034048.D

Acq: 30 Jul 2019 2:07

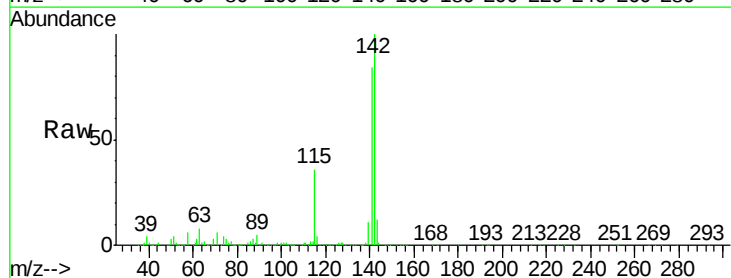
Tgt Ion:142 Resp: 1181163

Ion Ratio Lower Upper

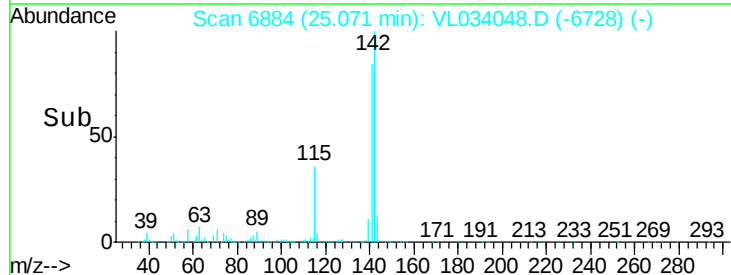
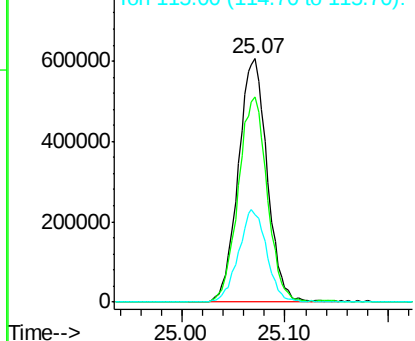
142 100

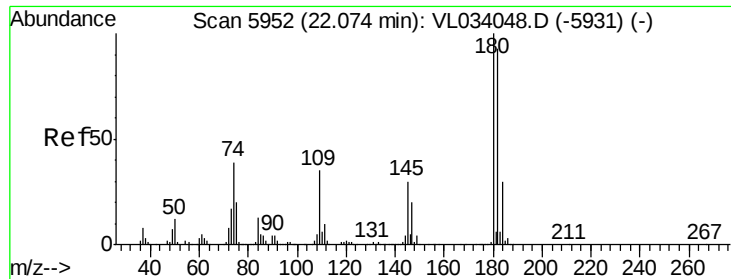
141 85.1 67.6 101.4

115 37.2 29.8 44.6



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





#81
 1,2,4-Trichlorobenzene
 Concen: 9.233 ppbv
 RT: 22.07 min Scan# 5952
 Delta R.T. 0.00 min
 Lab File: VL034048.D
 Acq: 30 Jul 2019 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.5	114.7
184	30.6	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 9:37:33 AM

