

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034054.D
 Acq On : 30 Jul 2019 6:00
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:40 AM

Quant Time: Jul 30 06:41:07 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	1292340	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4366231	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	3535469	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2632605	9.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	2357452	8.683	ppbv 98
3) Chlorodifluoromethane	2.99	51	1710641	10.552	ppbv 99
4) Chloromethane	3.14	50	988893	10.374	ppbv 98
5) Vinyl Chloride	3.26	62	1078035	10.168	ppbv 99
6) Bromomethane	3.49	94	767901	11.942	ppbv 93
7) Chloroethane	3.57	64	470679	12.011	ppbv 90
8) Dichlorotetrafluoroethane	3.19	85	2746287	10.183	ppbv 100
9) Propene	3.01	41	666725	11.186	ppbv 99
10) Heptane	8.20	43	2147910	14.917	ppbv 99
11) Trichlorofluoromethane	3.97	101	3368403	10.750	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.52	101	2363312	11.334	ppbv 99
13) Ethanol	3.62	45	166055	8.867	ppbv 99
14) Bromoethene	3.76	108	1047329	12.867	ppbv 99
15) Acetone	3.87	43	2324412	10.278	ppbv 99
16) 1,3-Butadiene	3.34	39	946249	11.566	ppbv 98
17) tert-Butyl alcohol	4.33	59	1925369	11.177	ppbv 100
18) 1,1-Dichloroethene	4.32	96	1122803	12.017	ppbv 96
19) Isopropyl Alcohol	3.99	45	1459377	9.600	ppbv 99
20) Methylene Chloride	4.37	84	967945	10.391	ppbv 97
21) Allyl Chloride	4.44	41	1693901	12.693	ppbv 98
22) trans-1,2-Dichloroethene	4.92	96	1139782	12.806	ppbv 90
23) Vinyl Acetate	5.12	43	2996802	14.091	ppbv 99
24) 1,1-Dichloroethane	5.06	63	2398025	12.592	ppbv 99
25) Ethyl Acetate	5.73	43	4105447	13.982	ppbv 100
26) Hexane	5.74	57	1846153	13.724	ppbv 98
27) Carbon Disulfide	4.58	76	2935336	12.958	ppbv 99
28) Methyl tert-Butyl Ether	5.07	73	2962770	13.051	ppbv 100
29) Chloroform	5.81	83	3194438	12.657	ppbv 99
30) Cyclohexane	7.20	84	2128404	19.321	ppbv 98
31) cis-1,2-Dichloroethene	5.61	61	1907624	14.737	ppbv 95
32) 1,1,1-Trichloroethane	6.58	97	3102796	12.133	ppbv 99
34) 2-Butanone	5.29	43	2417908	11.172	ppbv 100
35) Carbon Tetrachloride	7.09	117	4664972	14.146	ppbv 96
36) Benzene	6.97	78	5167421	16.310	ppbv 100
37) 1,2-Dichloroethane	6.37	62	2471171	10.472	ppbv 99
38) Trichloroethene	7.92	130	2211288	15.328	ppbv 96
39) 1,2-Dichloropropane	7.69	63	1884376	15.738	ppbv 98
40) 1,4-Dioxane	7.91	88	723866	13.258	ppbv # 1
41) Tetrahydrofuran	6.11	42	1320844	12.571	ppbv 100
42) Bromodichloromethane	7.88	83	4795980	15.196	ppbv 97
43) Methyl Methacrylate	8.09	69	1532132	12.777	ppbv 98

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Manual Integrations
 APPROVED

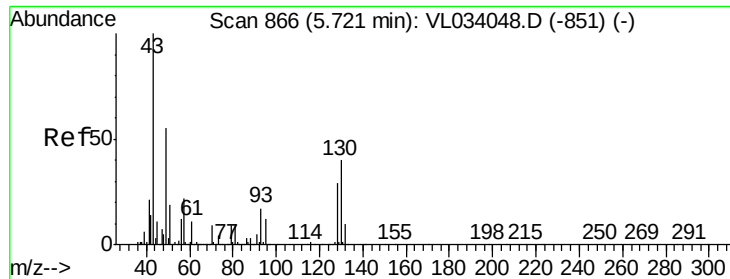
MMdadoda
 8/2/2019 9:37:40 AM

Quant Time: Jul 30 06:41:07 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)

44) 2,2,4-Trimethylpentane	7.95	57	8372138	15.253	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	2200798	14.185	ppbv	97
46) cis-1,3-Dichloropropene	8.79	75	2439834	13.492	ppbv	99
47) 1,1,2-Trichloroethane	9.57	97	1629766	10.944	ppbv	95
48) Dibromochloromethane	10.40	129	3028844	10.102	ppbv	98
49) Bromoform	13.15	173	2857766	11.761	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	3824580	12.008	ppbv	100
51) 2-Hexanone	10.22	43	3131616	11.501	ppbv #	99
52) Tetrachloroethene	11.33	164	1545291	11.092	ppbv	99
53) Toluene	9.90	91	4629882	12.835	ppbv	99
54) 1,2-Dibromoethane	10.71	107	2549064	11.672	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.23	131	2038328	13.108	ppbv	96
57) Chlorobenzene	12.25	112	3595221	12.979	ppbv	98
58) Ethyl Benzene	12.82	91	6420041	15.341	ppbv	98
59) m/p-Xylene	13.10	91	10737742m	28.322	ppbv	
60) o-Xylene	13.80	91	5278110	13.875	ppbv	99
61) Styrene	13.63	104	4060062	16.235	ppbv	99
62) Isopropylbenzene	14.78	105	6941804	12.635	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	3745558	12.687	ppbv	99
64) n-propylbenzene	15.68	120	1804769	12.700	ppbv	98
65) tert-Butylbenzene	16.86	119	6183615	13.350	ppbv	99
66) Benzyl Chloride	17.11	91	3631014	15.501	ppbv	99
67) sec-Butylbenzene	17.41	105	8840090	13.523	ppbv	99
69) p-Isopropyltoluene	17.77	119	7294886	13.570	ppbv	99
70) n-Butylbenzene	18.67	91	7601666	13.436	ppbv	100
71) 2-Chlorotoluene	15.57	91	5298204	13.242	ppbv	99
72) 4-Ethyltoluene	15.95	105	6081496	13.194	ppbv	98
73) 1,3,5-Trimethylbenzene	16.11	105	5932055	13.955	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	6102831	12.967	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	3611519	12.028	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	3627451	12.836	ppbv	100
77) 1,2-Dichlorobenzene	17.94	146	3471205	12.510	ppbv	99
78) Hexachloro-1,3-Butadiene	23.49	225	2782419	11.490	ppbv	98
79) Naphthalene	22.35	128	5957058	15.032	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	1940750	13.528	ppbv	98
81) 1,2,4-Trichlorobenzene	22.07	180	3523963	13.755	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 867

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1292340

Ion Ratio Lower Upper

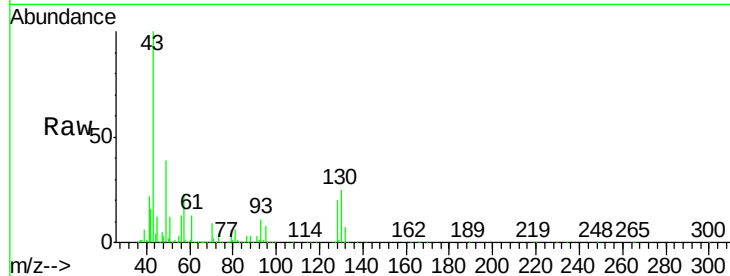
49 100

128 52.2 27.0 81.0

130 67.2 35.0 105.0

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.72

800000

600000

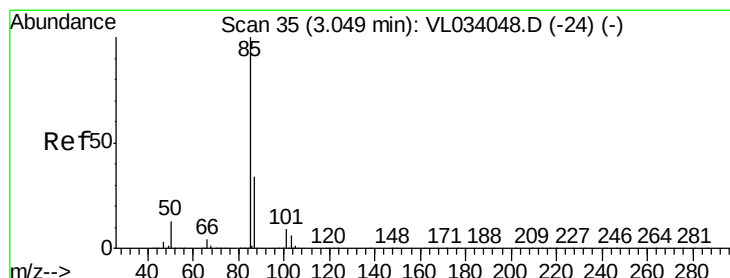
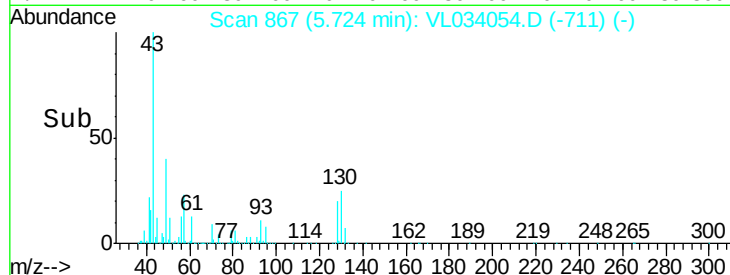
400000

200000

0

5.65 5.70 5.75 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 8.683 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL034054.D

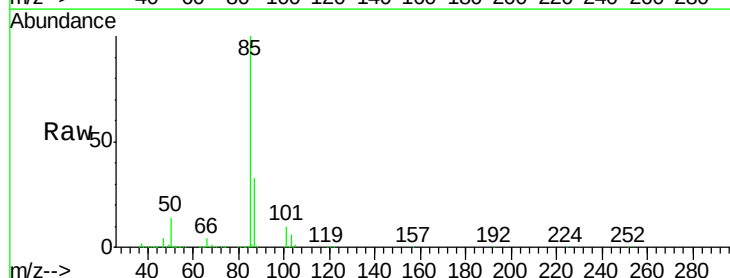
Acq: 30 Jul 2019 6:00

Tgt Ion: 85 Resp: 2357452

Ion Ratio Lower Upper

85 100

87 32.7 27.0 40.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

2000000

1500000

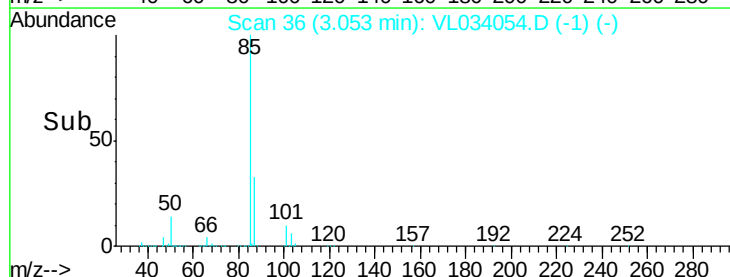
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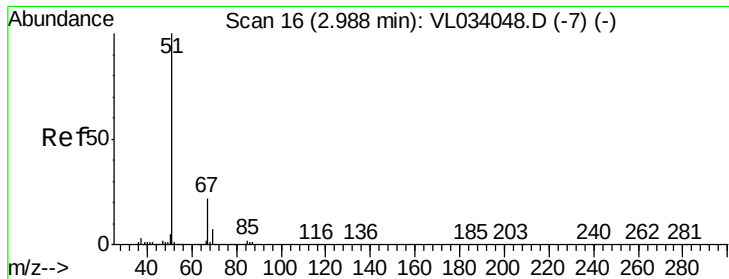
500000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 10.552 ppbv

RT: 2.99 min Scan# 17

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1710641

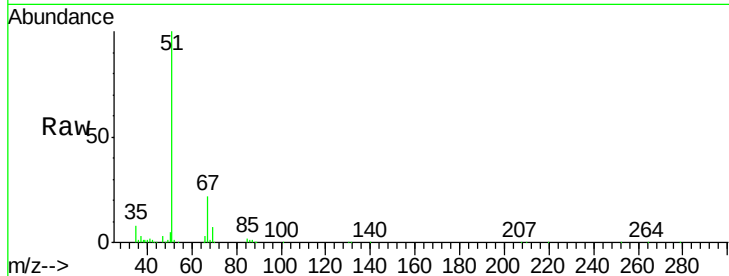
Ion Ratio Lower Upper

51 100

67 22.3 17.4 26.0

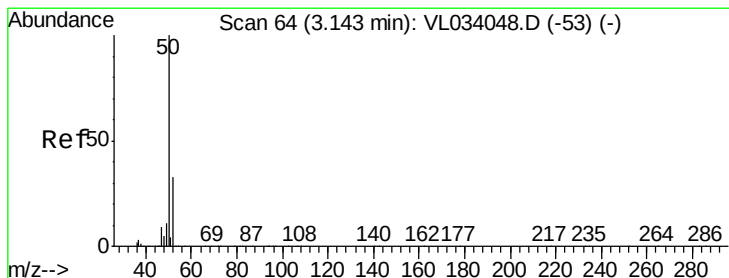
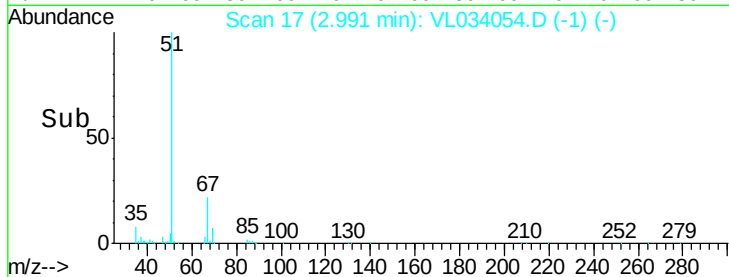
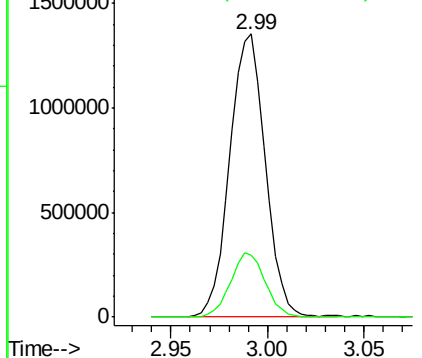
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.374 ppbv

RT: 3.14 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL034054.D

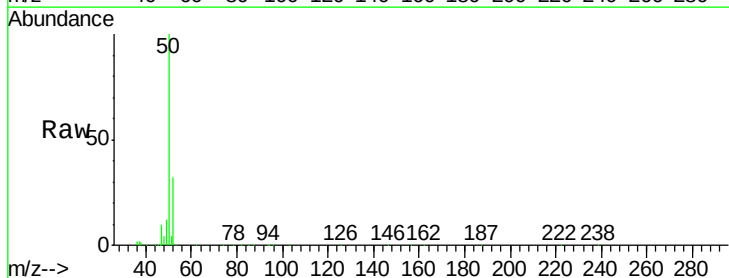
Acq: 30 Jul 2019 6:00

Tgt Ion: 50 Resp: 988893

Ion Ratio Lower Upper

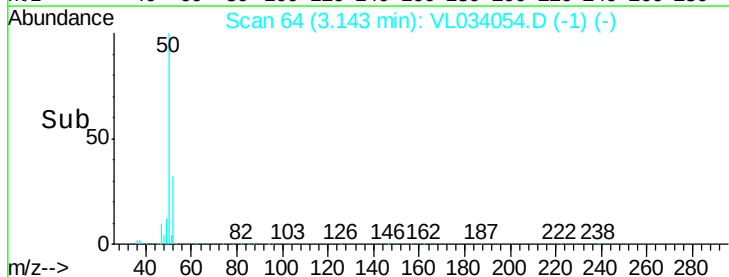
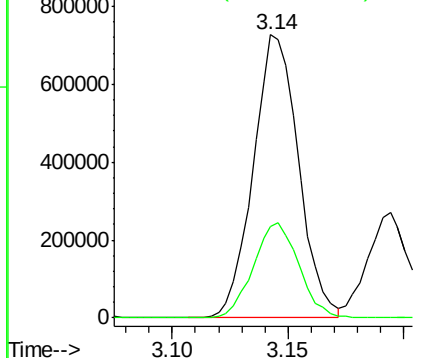
50 100

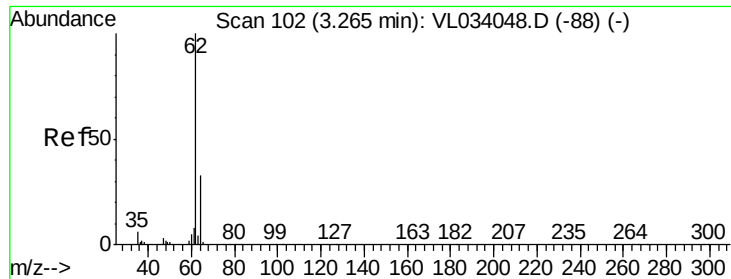
52 32.3 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.168 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1078035

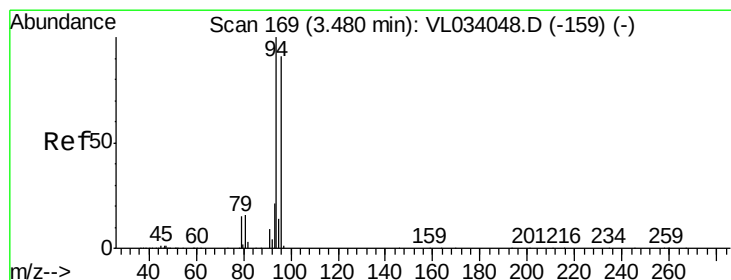
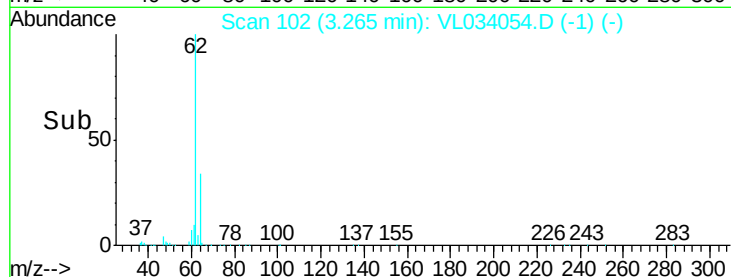
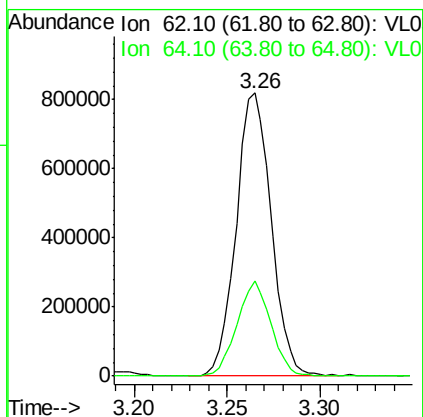
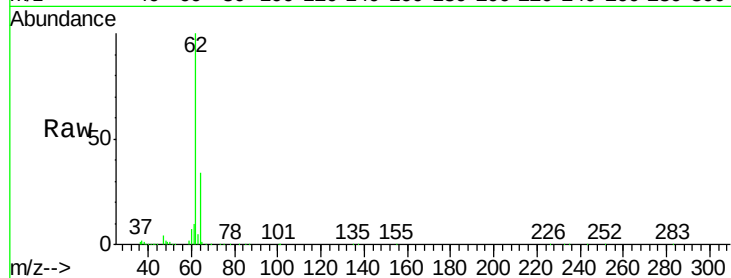
Ion Ratio Lower Upper

62 100

64 33.7 26.5 39.7

Manual Integrations
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#6

Bromomethane

Concen: 11.942 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034054.D

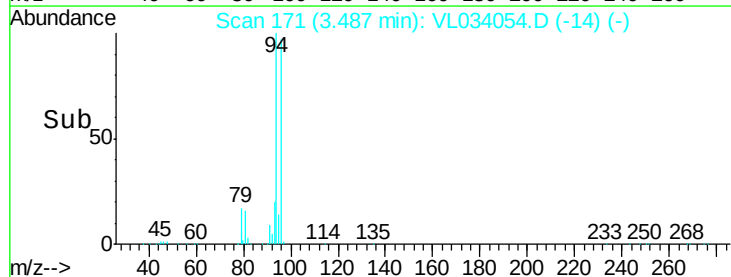
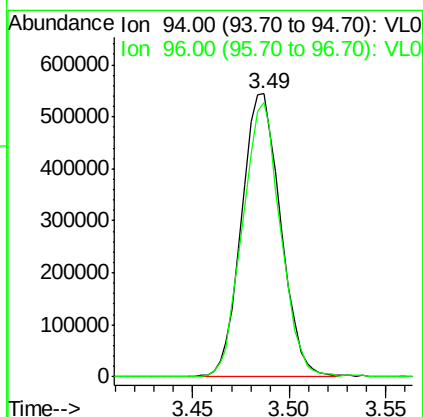
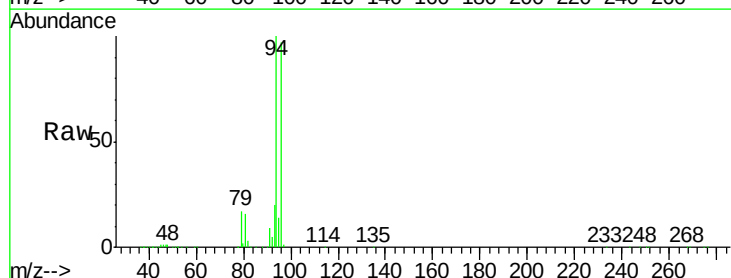
Acq: 30 Jul 2019 6:00

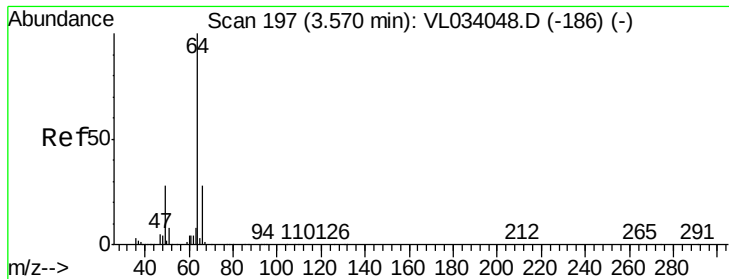
Tgt Ion: 94 Resp: 767901

Ion Ratio Lower Upper

94 100

96 96.9 72.6 108.8





#7

Chloroethane

Concen: 12.011 ppbv

RT: 3.57 min Scan# 197

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 470679

Ion Ratio Lower Upper

64 100

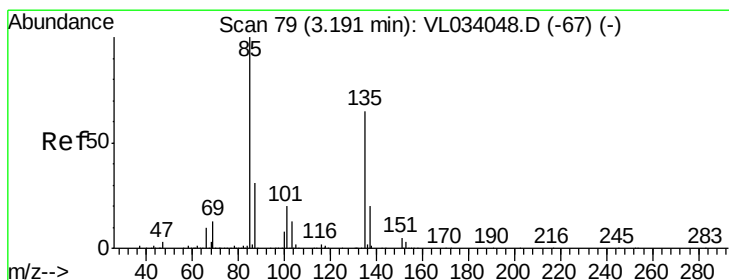
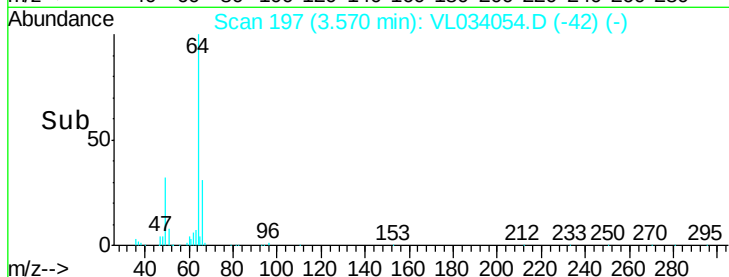
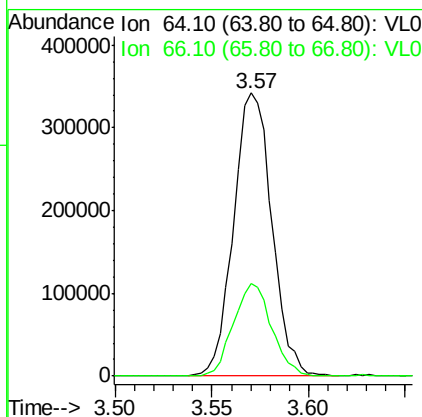
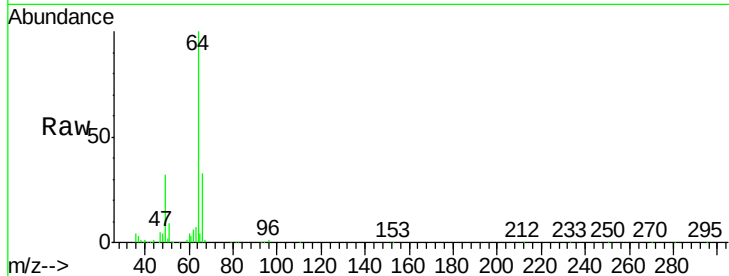
66 32.9 22.0 33.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.183 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034054.D

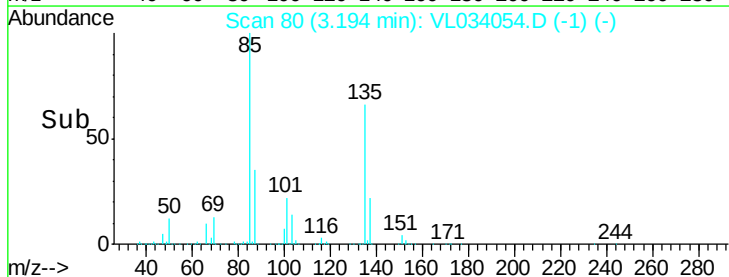
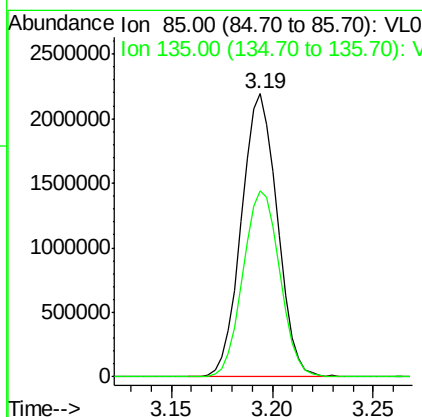
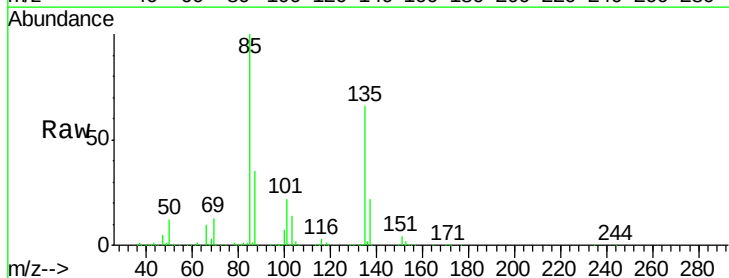
Acq: 30 Jul 2019 6:00

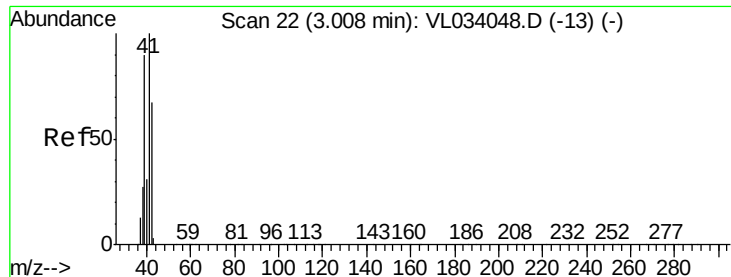
Tgt Ion: 85 Resp: 2746287

Ion Ratio Lower Upper

85 100

135 67.6 54.1 81.1





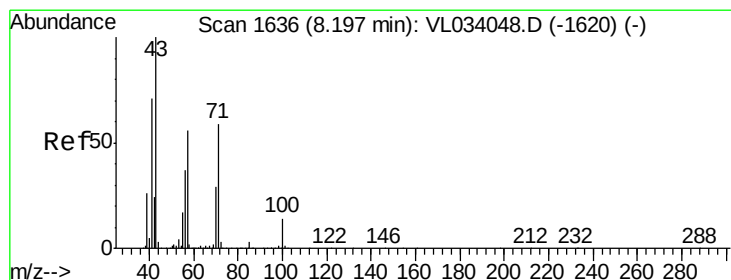
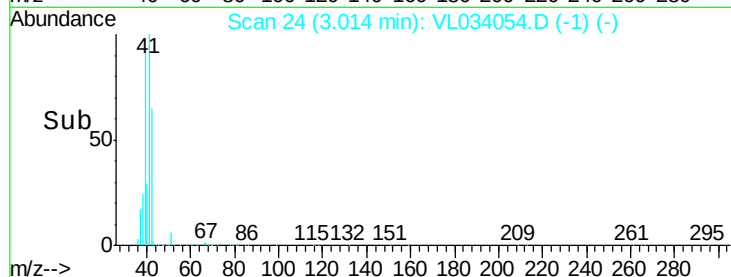
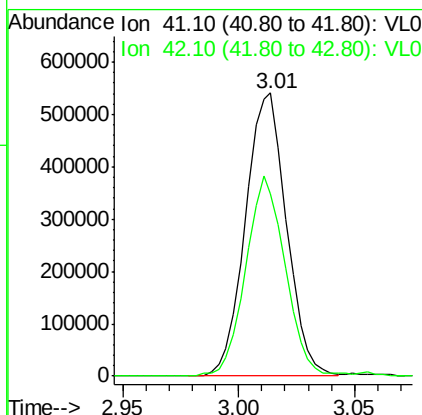
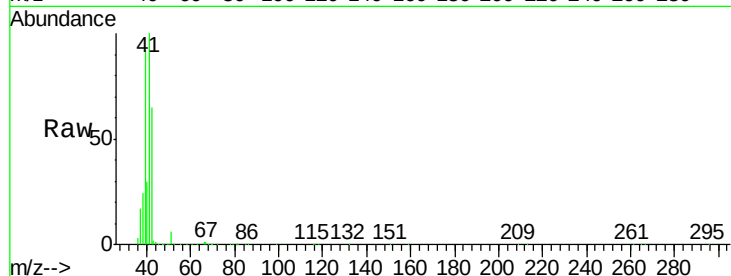
#9
 Propene
 Concen: 11.186 ppbv
 RT: 3.01 min Scan# 24
 Delta R.T. 0.01 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 41 Resp: 666725
 Ion Ratio Lower Upper
 41 100
 42 68.8 55.4 83.2

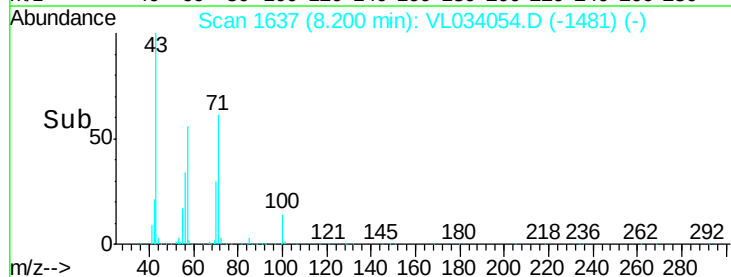
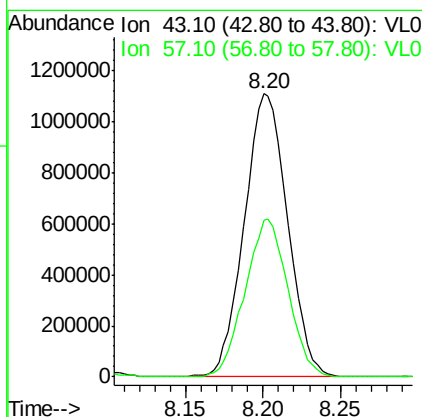
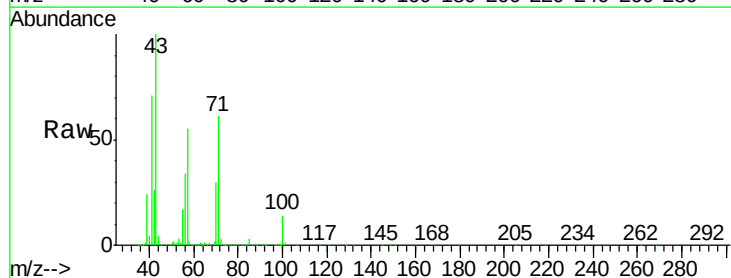
Manual Integrations
 APPROVED

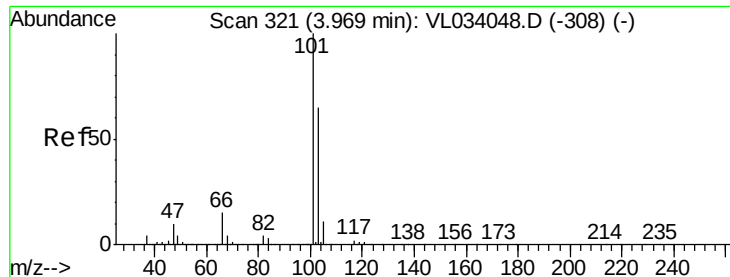
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 8/2/2019 9:37:40 AM



#10
 Heptane
 Concen: 14.917 ppbv
 RT: 8.20 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 43 Resp: 2147910
 Ion Ratio Lower Upper
 43 100
 57 55.5 44.8 67.2





#11

Trichlorofluoromethane

Concen: 10.750 ppbv

RT: 3.97 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 3368403

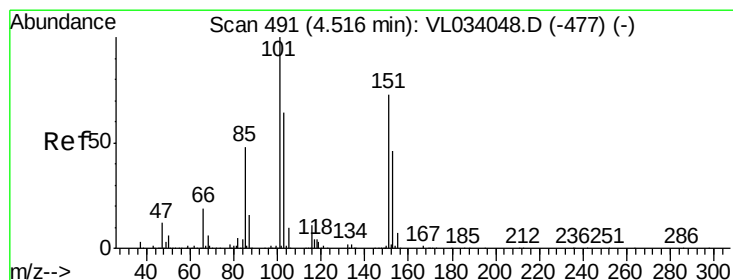
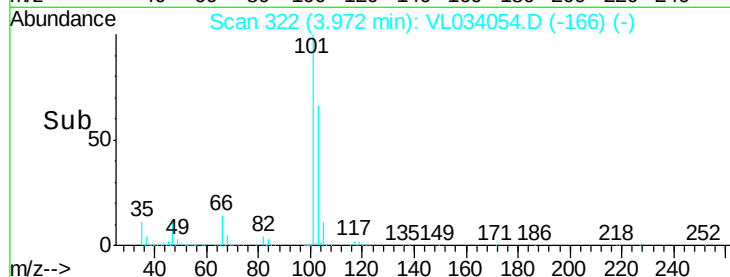
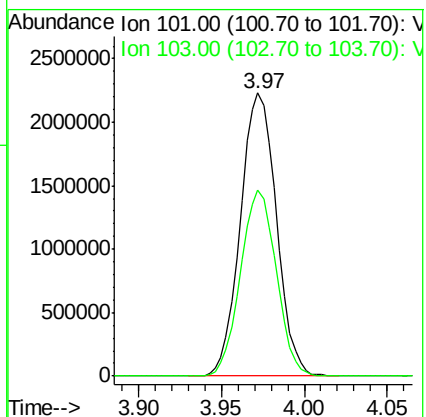
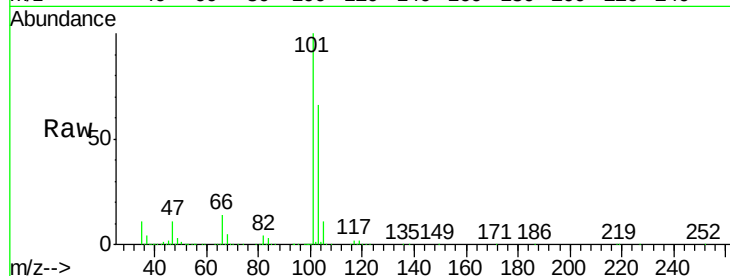
Ion Ratio Lower Upper

101 100

103 66.0 52.3 78.5

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8/2/2019 9:37:40 AM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 11.334 ppbv

RT: 4.52 min Scan# 492

Delta R.T. 0.00 min

Lab File: VL034054.D

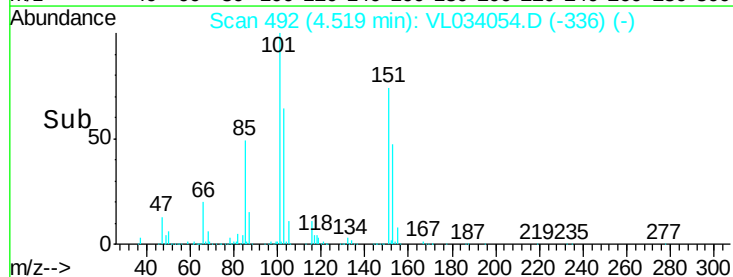
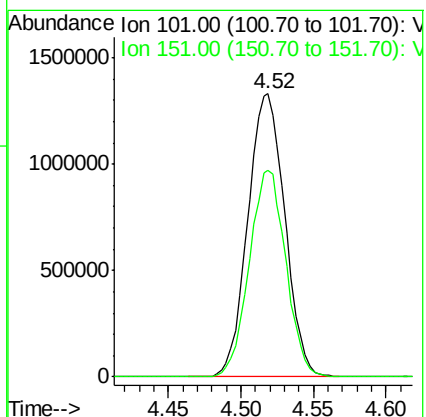
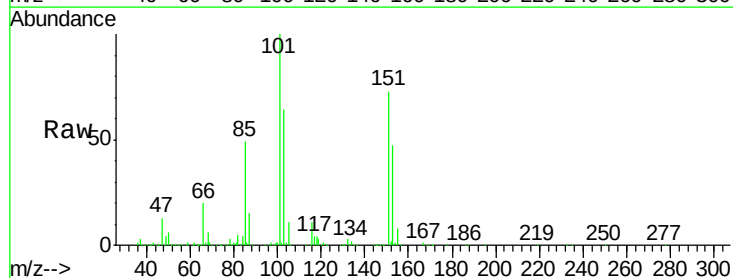
Acq: 30 Jul 2019 6:00

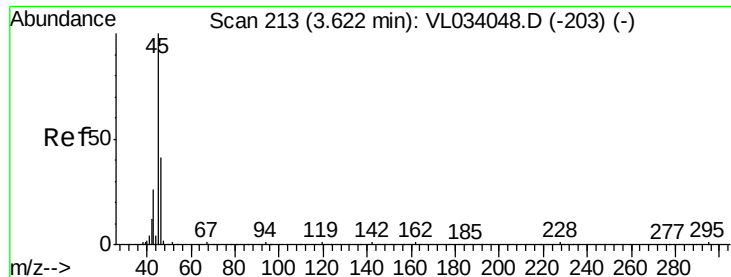
Tgt Ion:101 Resp: 2363312

Ion Ratio Lower Upper

101 100

151 72.4 57.3 85.9





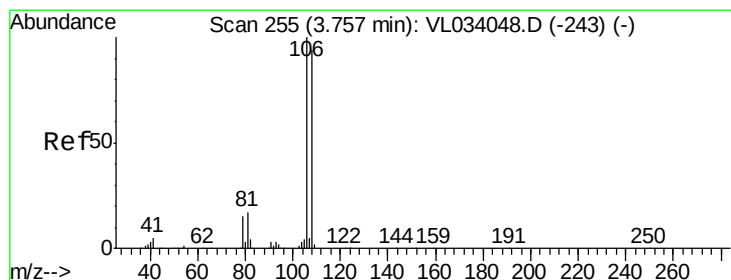
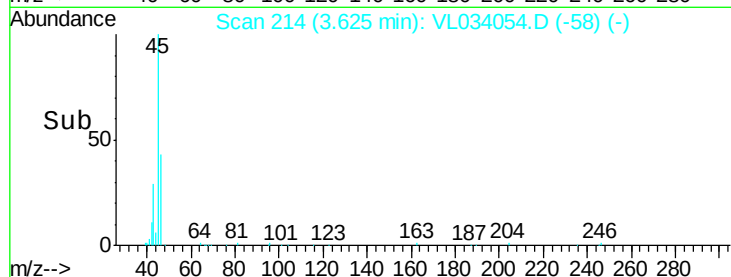
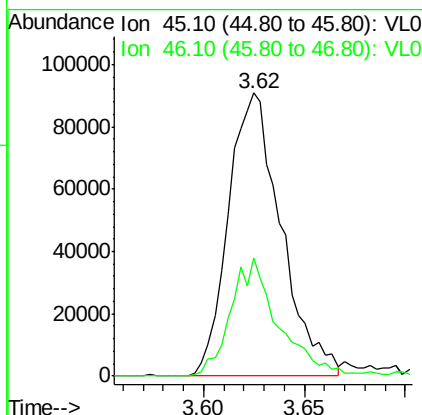
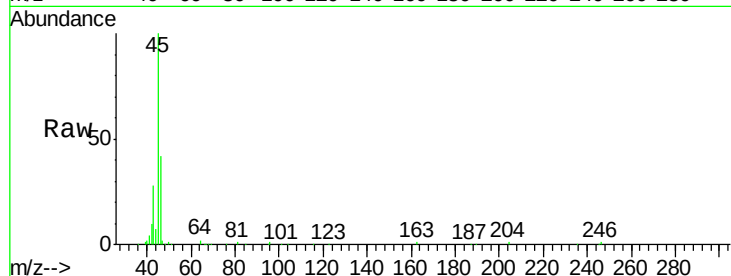
#13
Ethanol
Concen: 8.867 ppbv
RT: 3.62 min Scan# 214
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.3	15.6	62.2

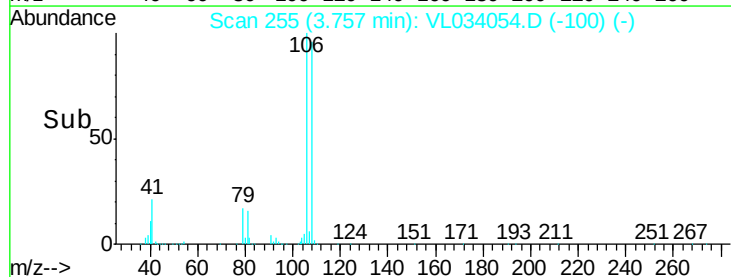
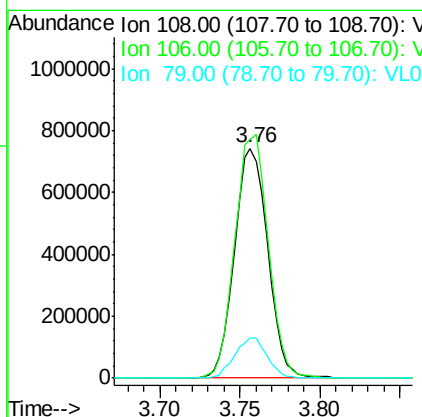
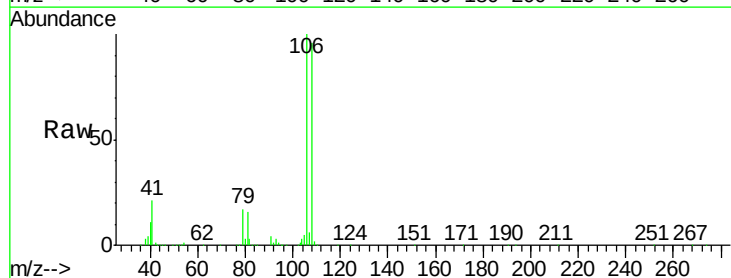
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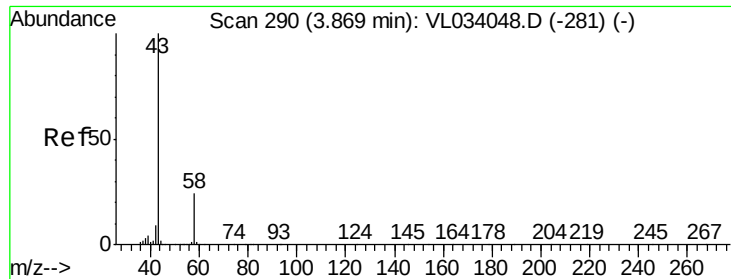
MMDadoda
8/2/2019 9:37:40 AM



#14
Bromoethene
Concen: 12.867 ppbv
RT: 3.76 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.7	86.2	129.2
79	17.3	13.7	20.5





#15

Acetone

Concen: 10.278 ppbv

RT: 3.87 min Scan# 290

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2324412

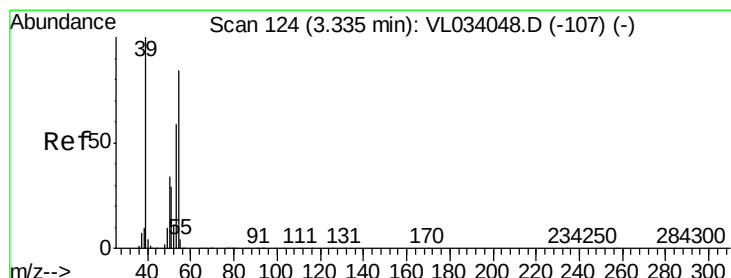
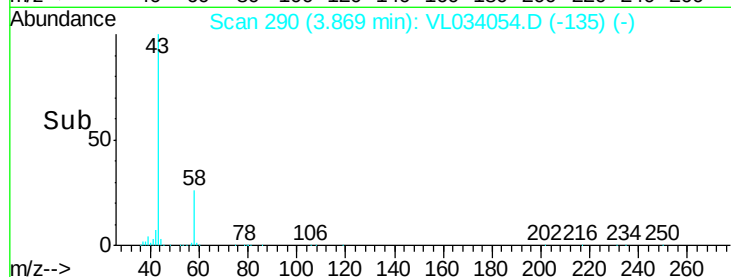
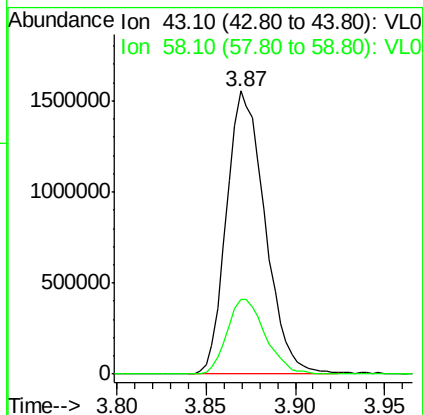
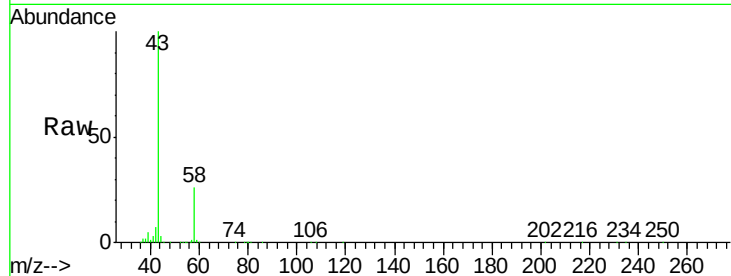
Ion Ratio Lower Upper

43 100

58 26.6 21.6 32.4

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#16

1,3-Butadiene

Concen: 11.566 ppbv

RT: 3.34 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL034054.D

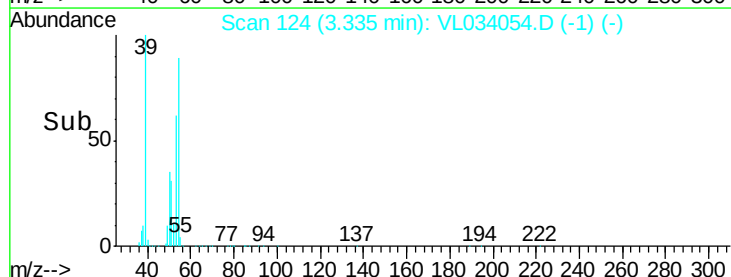
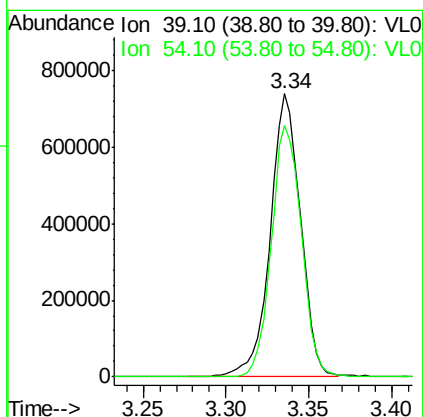
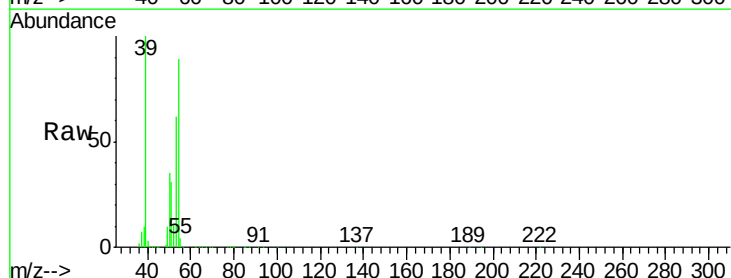
Acq: 30 Jul 2019 6:00

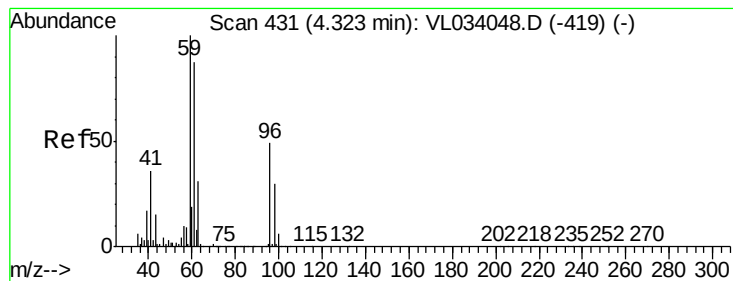
Tgt Ion: 39 Resp: 946249

Ion Ratio Lower Upper

39 100

54 88.4 68.9 103.3





#17

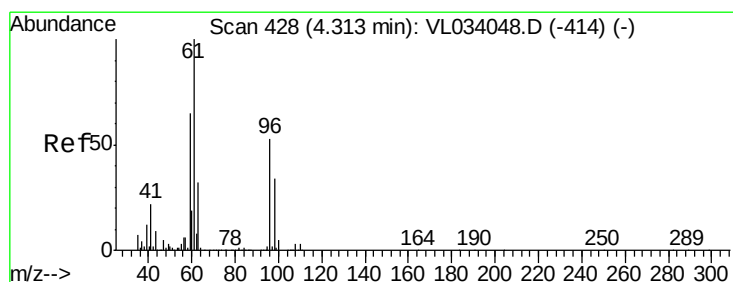
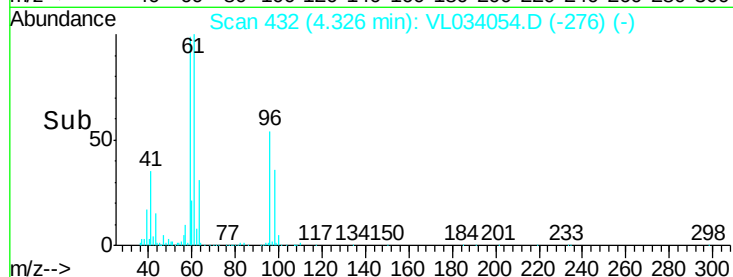
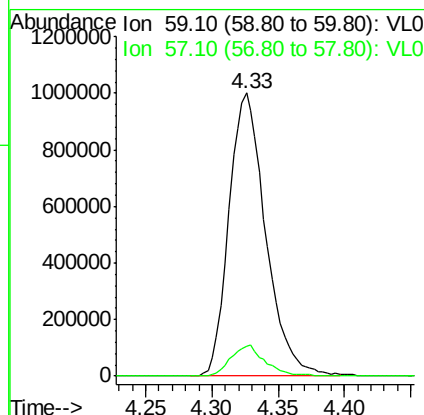
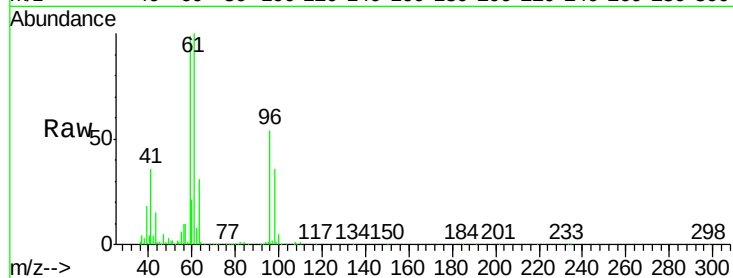
tert-Butyl alcohol
 Concen: 11.177 ppbv
 RT: 4.33 min Scan# 432
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 1925369
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.2 12.4

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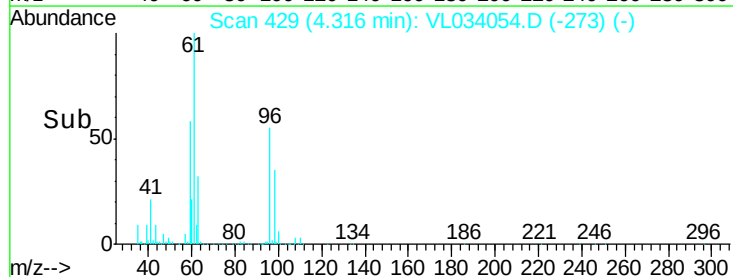
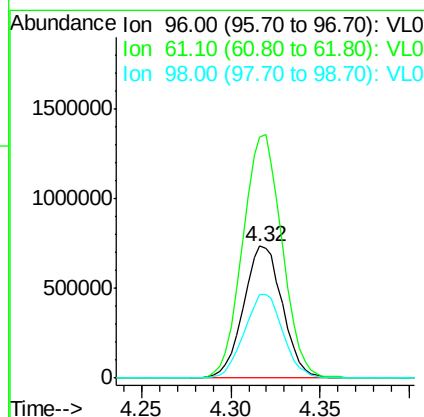
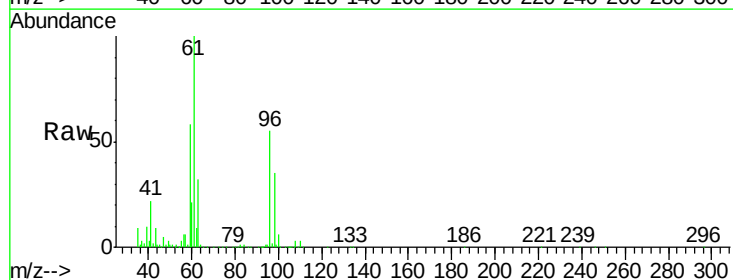
MMdadoda
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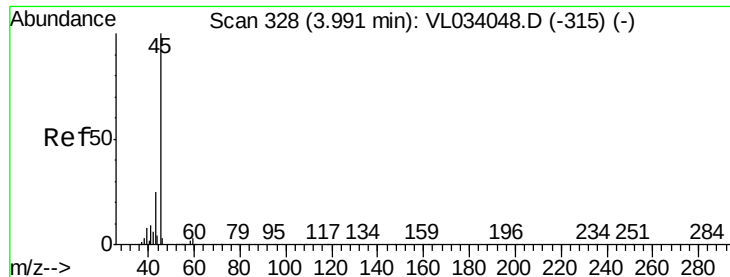


#18

1,1-Dichloroethene
 Concen: 12.017 ppbv
 RT: 4.32 min Scan# 429
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 96 Resp: 1122803
 Ion Ratio Lower Upper
 96 100
 61 182.9 151.5 227.3
 98 63.3 52.2 78.2





#19

Isopropyl Alcohol

Concen: 9.600 ppbv

RT: 3.99 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 1459377

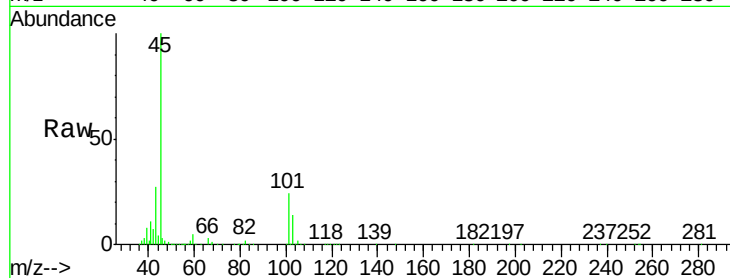
Ion Ratio Lower Upper

45 100

58 1.8 1.8 2.6

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8/2/2019 9:37:40 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

800000

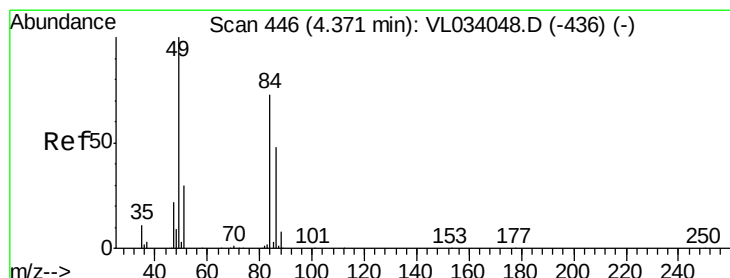
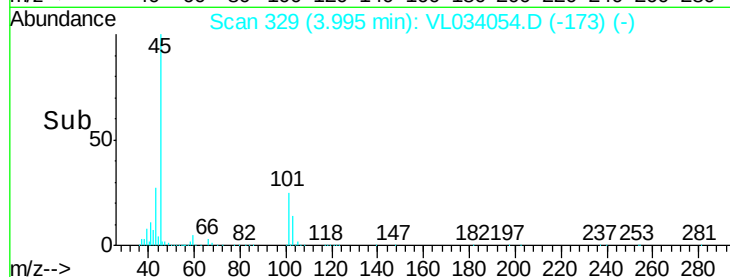
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 10.391 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tgt Ion: 84 Resp: 967945

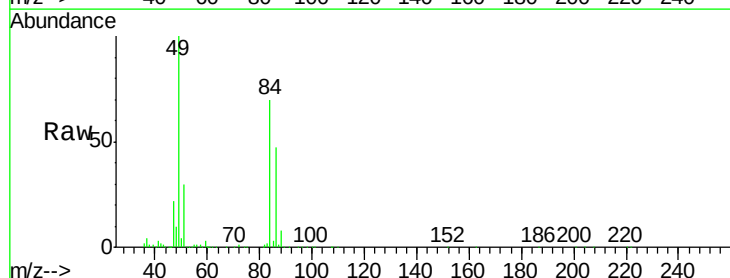
Ion Ratio Lower Upper

84 100

49 142.2 109.6 164.4

51 41.8 33.4 50.2

86 67.2 52.6 78.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

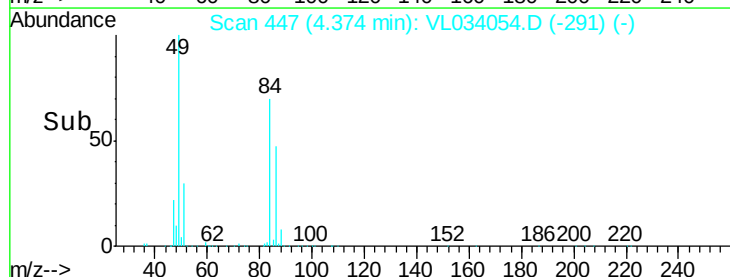
Ion 86.00 (85.70 to 86.70): VL0

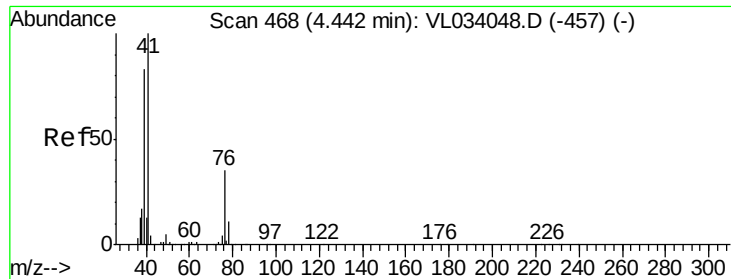
1000000

500000

0

Time-->





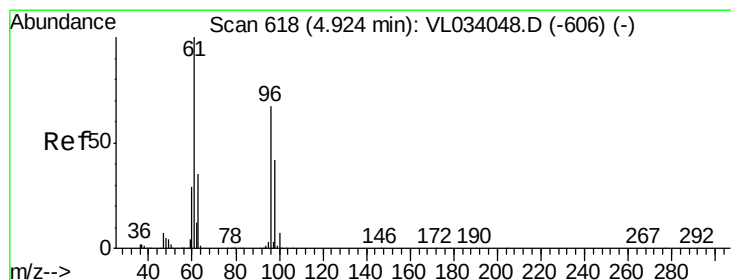
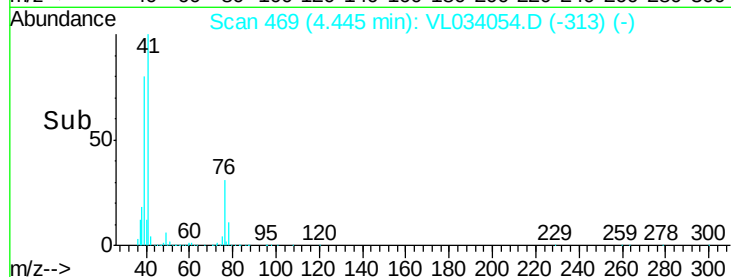
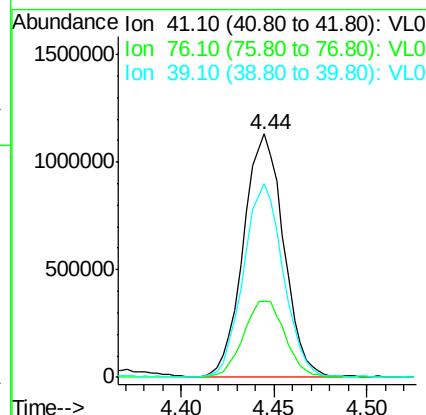
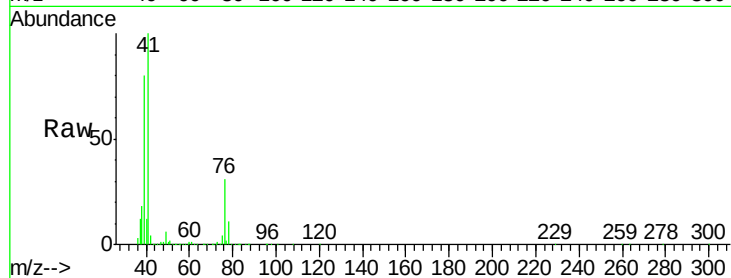
#21
 Allvl Chloride
 Concen: 12.693 ppbv
 RT: 4.44 min Scan# 469
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.7	26.1	39.1
39	79.3	65.0	97.6

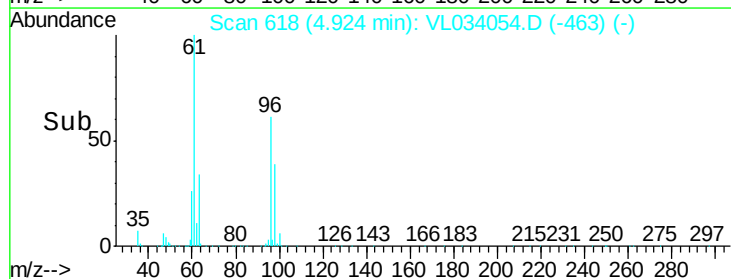
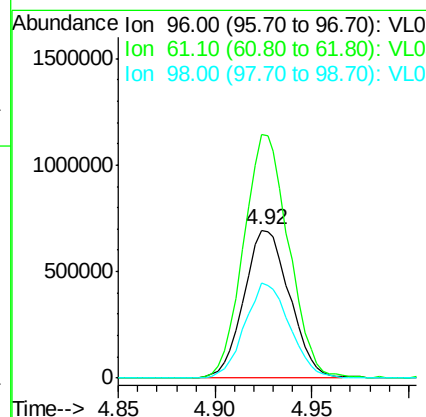
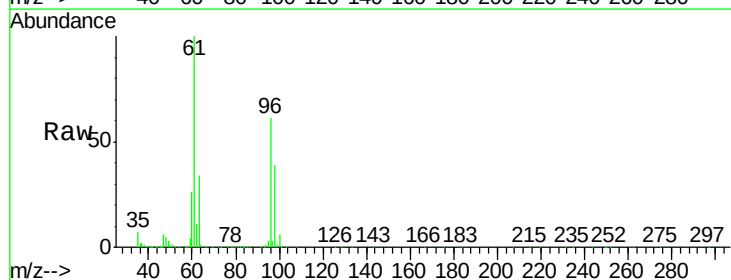
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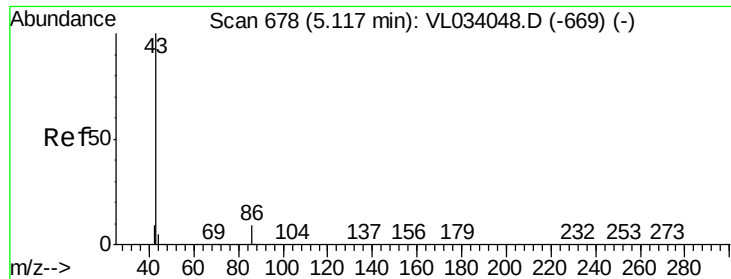
MMDadoda
 8/2/2019 9:37:40 AM



#22
 trans-1,2-Dichloroethene
 Concen: 12.806 ppbv
 RT: 4.92 min Scan# 618
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.8	118.6	177.8
98	64.1	49.7	74.5





#23

Vinyl Acetate

Concen: 14.091 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2996802

Ion	Ratio	Lower	Upper
43	100		
86	8.6	6.5	9.7
42	9.9	8.3	12.5
44	5.3	4.0	6.0

43 100

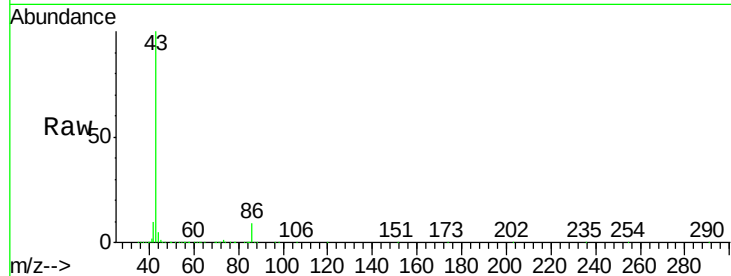
86 8.6 6.5 9.7

42 9.9 8.3 12.5

44 5.3 4.0 6.0

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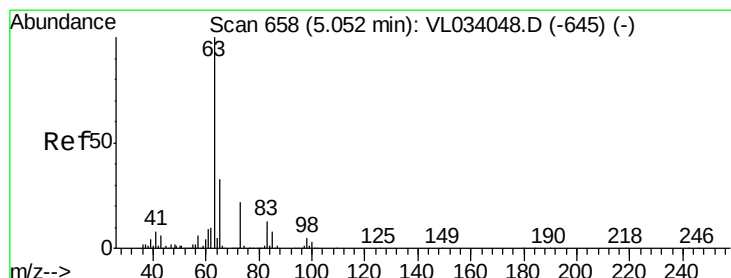
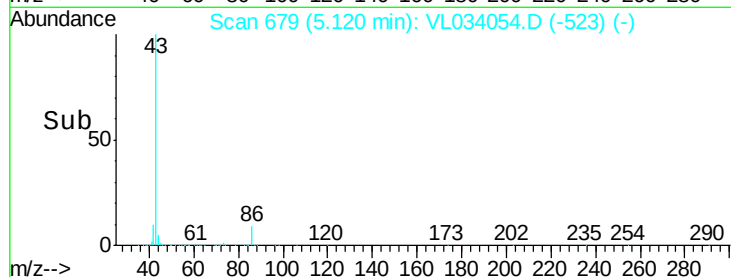
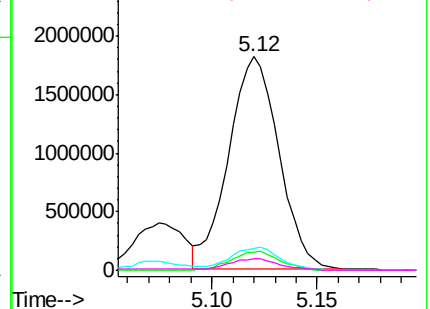


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 12.592 ppbv

RT: 5.06 min Scan# 659

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

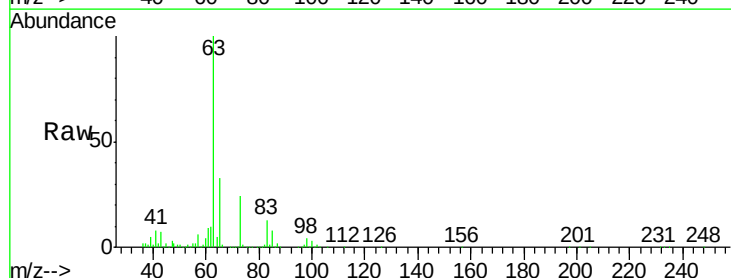
Tgt Ion: 63 Resp: 2398025

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.2
100	3.0	1.3	3.9

63 100

98 4.4 2.4 7.2

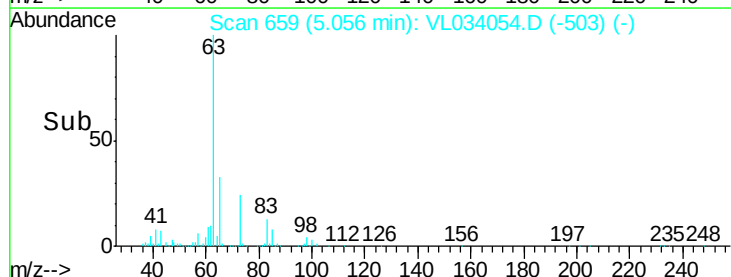
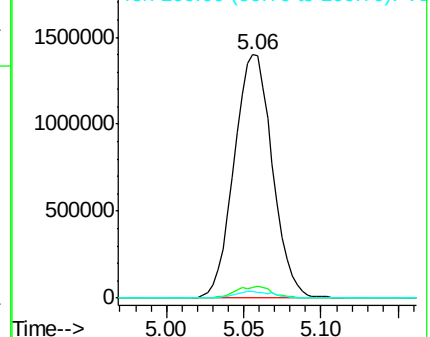
100 3.0 1.3 3.9

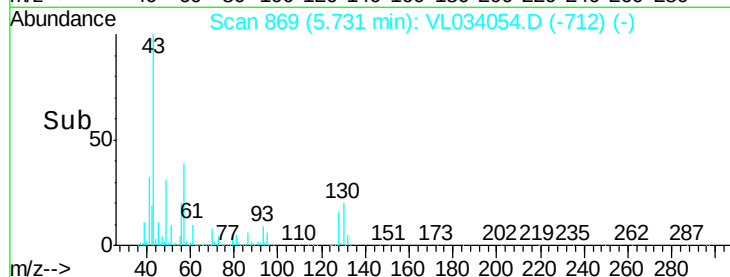
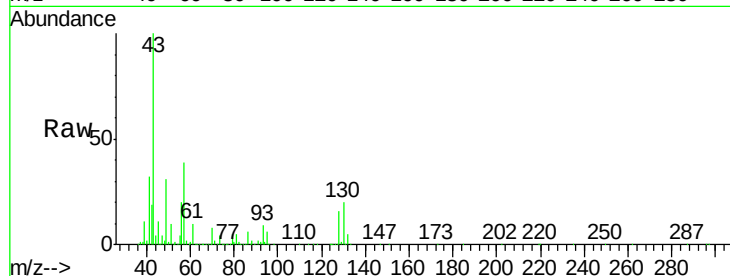
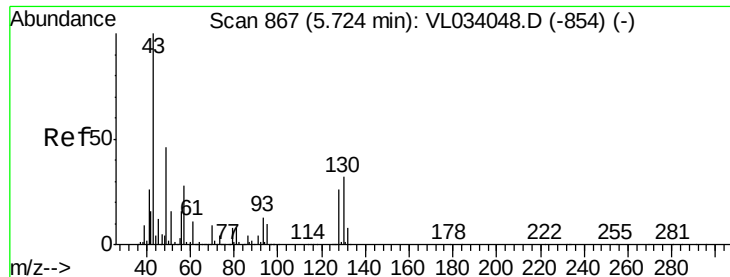


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

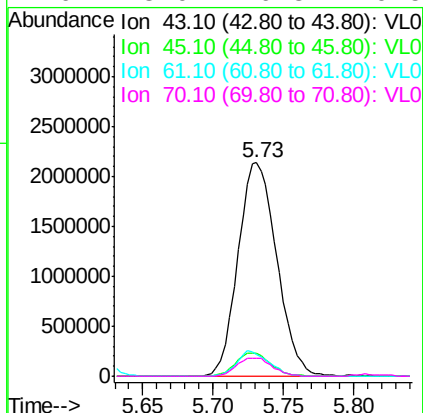
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 13.982 ppbv
RT: 5.73 min Scan# 869
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

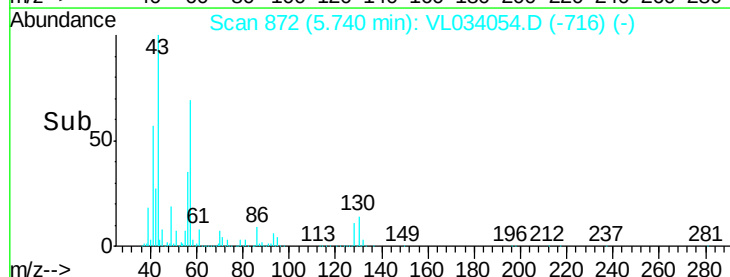
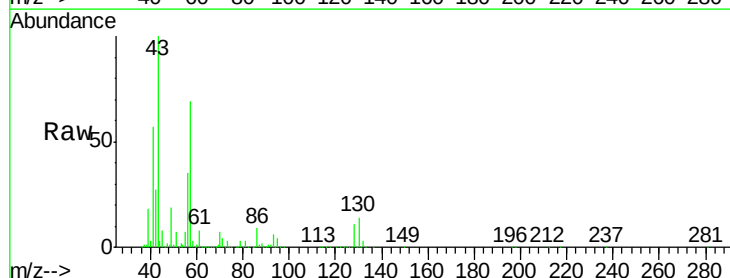
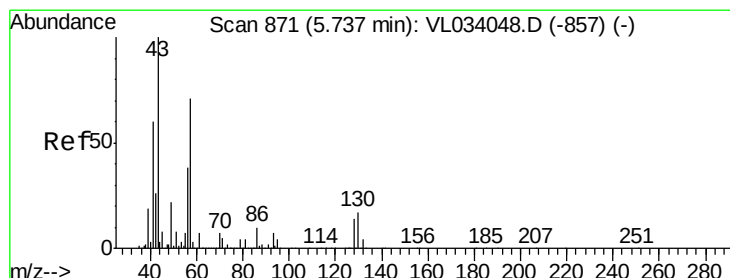
Tot Ion	43	Resp	4105447
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.9	8.1	12.1
70	8.0	6.3	9.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

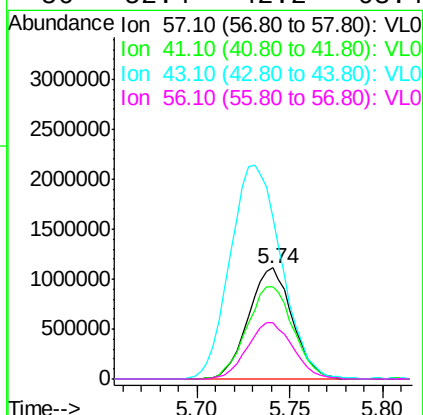
Manual Integrations
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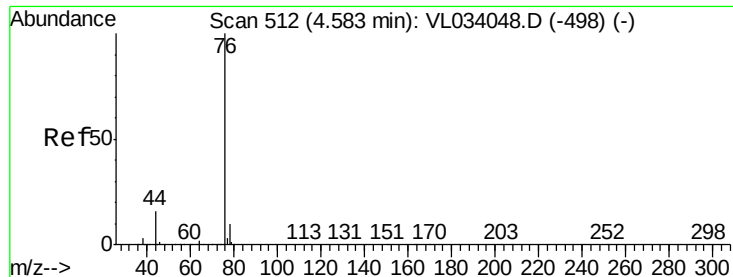
MMdadoda
8/2/2019 9:37:40 AM



#26
Hexane
Concen: 13.724 ppbv
RT: 5.74 min Scan# 872
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion	57	Resp	1846153
Ion	Ratio	Lower	Upper
57	100		
41	87.7	69.0	103.6
43	223.5	176.6	264.8
56	52.4	42.2	63.4





#27

Carbon Disulfide

Concen: 12.958 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2935336

Ion Ratio Lower Upper

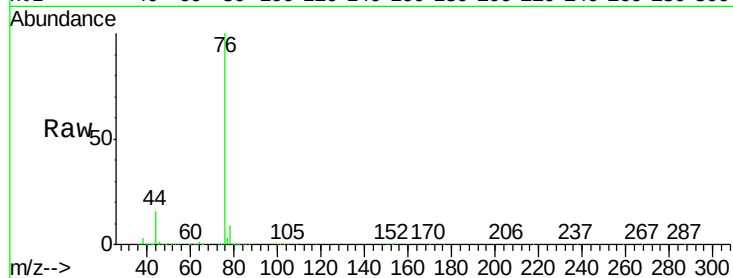
76 100

44 15.8 13.0 19.4

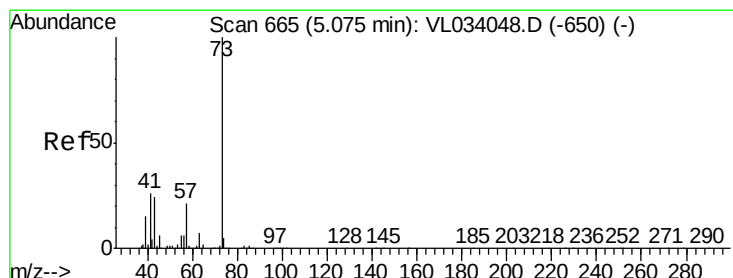
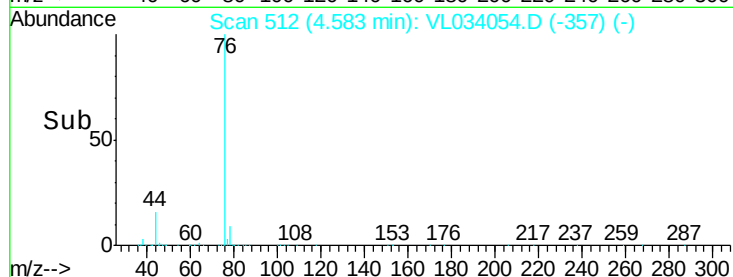
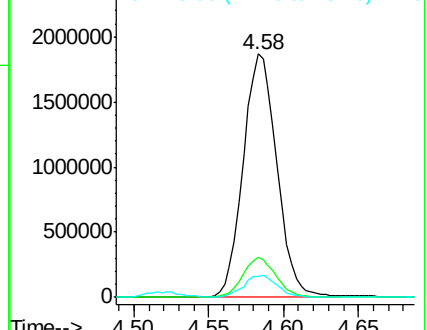
78 9.2 7.7 11.5

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 13.051 ppbv

RT: 5.07 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL034054.D

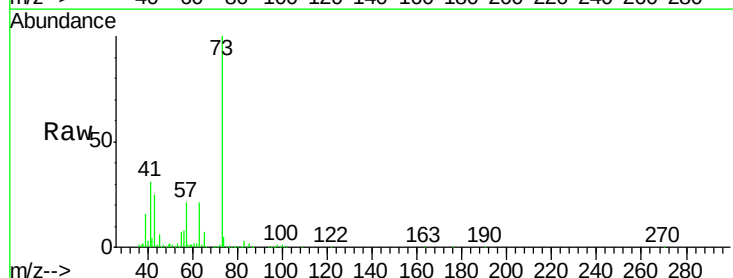
Acq: 30 Jul 2019 6:00

Tgt Ion: 73 Resp: 2962770

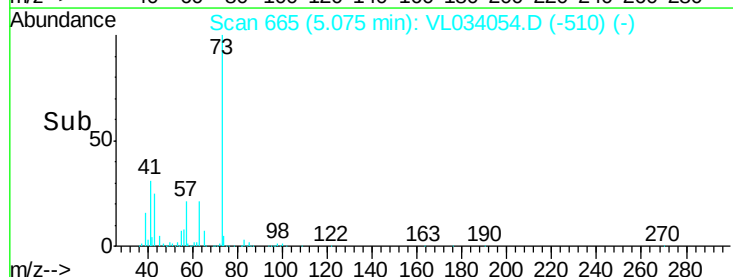
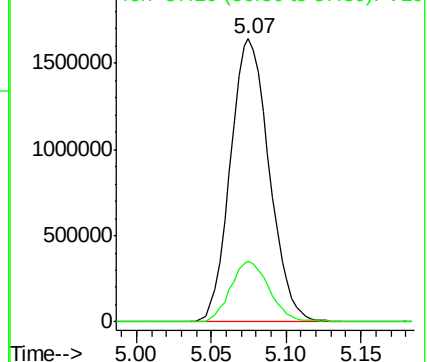
Ion Ratio Lower Upper

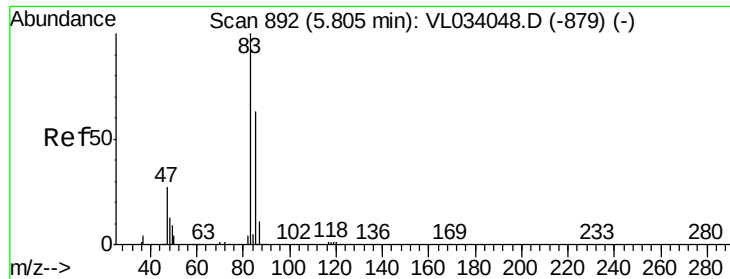
73 100

57 21.5 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





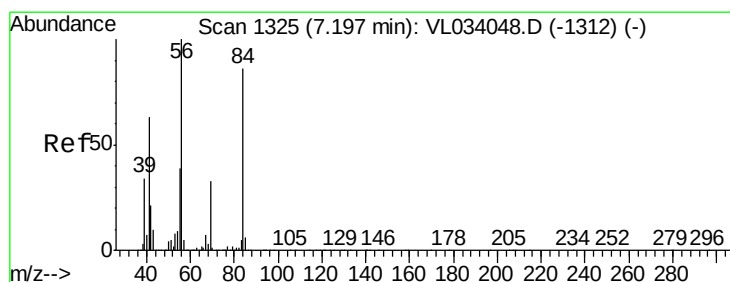
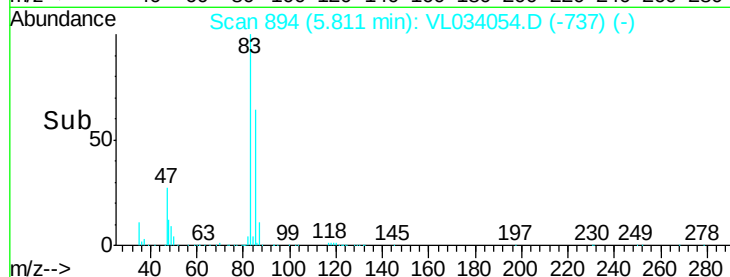
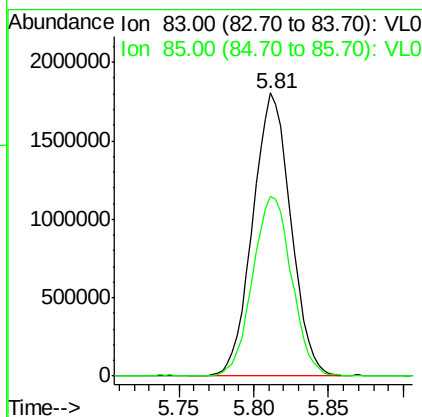
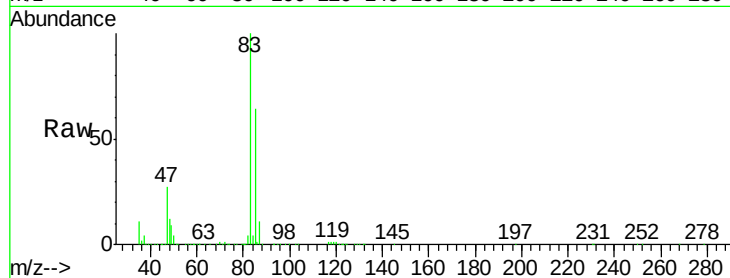
#29
Chloroform
Concen: 12.657 ppbv
RT: 5.81 min Scan# 894
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3194438
Ion Ratio Lower Upper
83 100
85 63.5 50.2 75.4

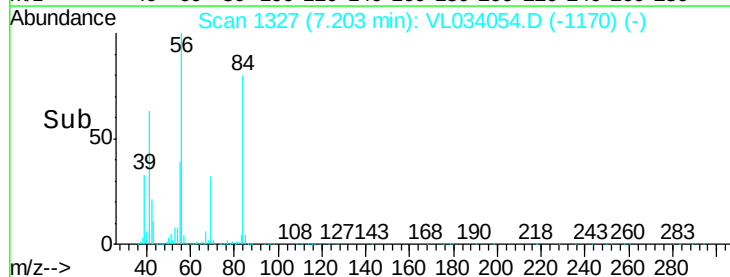
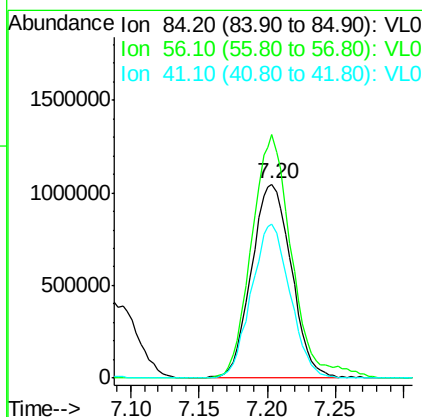
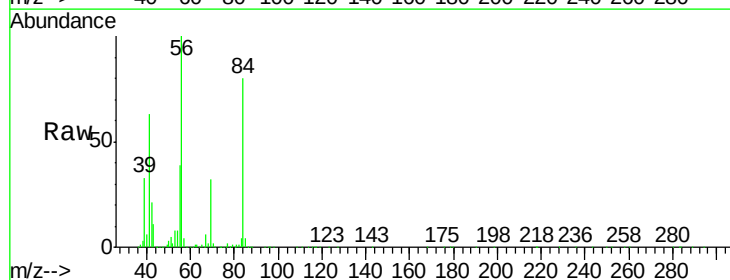
Manual Integrations
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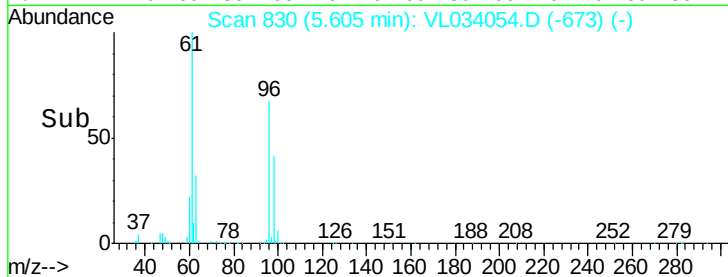
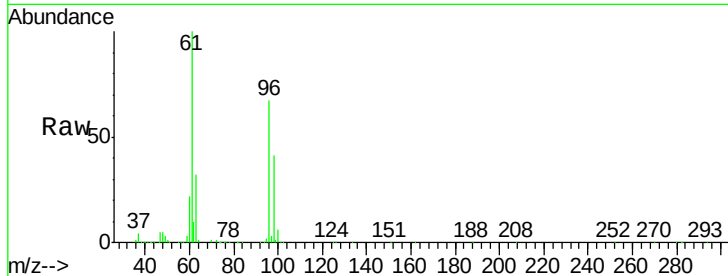
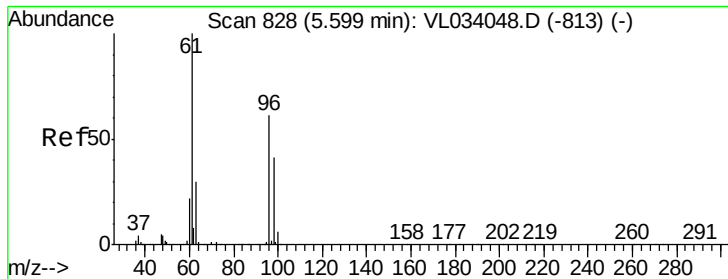
MMdadoda
8/2/2019 9:37:40 AM



#30
Cyclohexane
Concen: 19.321 ppbv
RT: 7.20 min Scan# 1327
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 84 Resp: 2128404
Ion Ratio Lower Upper
84 100
56 125.9 101.7 152.5
41 76.7 59.4 89.0





#31

cis-1,2-Dichloroethene

Concen: 14.737 ppbv

RT: 5.61 min Scan# 830

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tot Ion:	61	Resp:	1907624
Ion	Ratio	Lower	Upper
61	100		
96	66.5	49.1	73.7
98	41.3	32.5	48.7

Instrument :

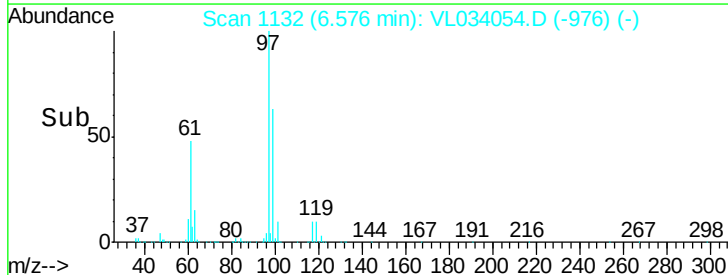
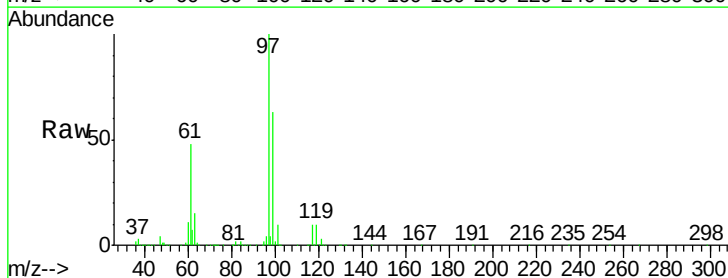
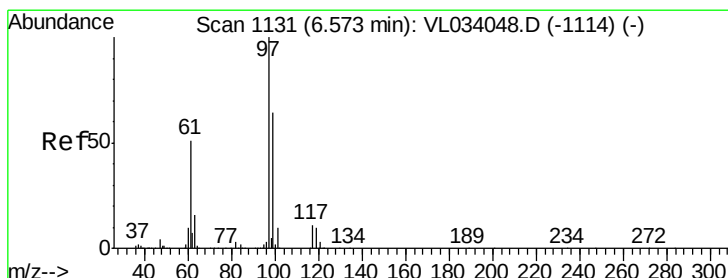
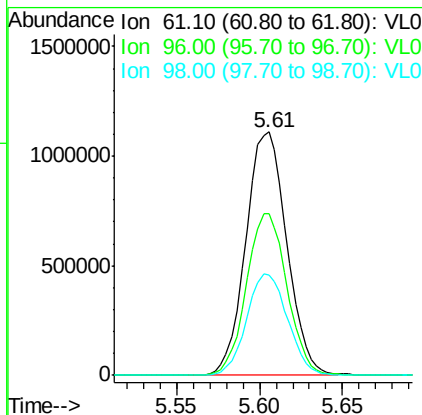
MSVOA_L

ClientSampleId :

VSTDIC015

Manual Integrations
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8/2/2019 9:37:40 AM



#32

1,1,1-Trichloroethane

Concen: 12.133 ppbv

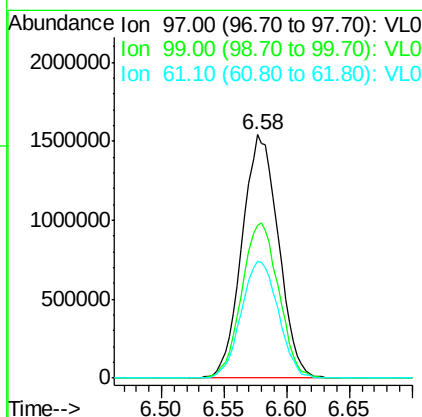
RT: 6.58 min Scan# 1132

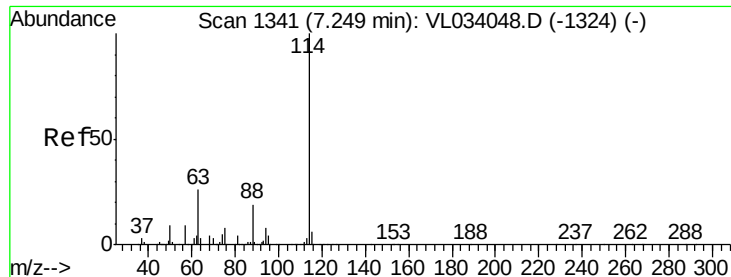
Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tgt Ion:	97	Resp:	3102796
Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.6
61	48.8	39.5	59.3





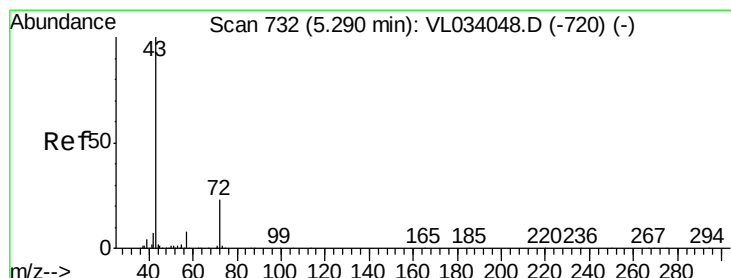
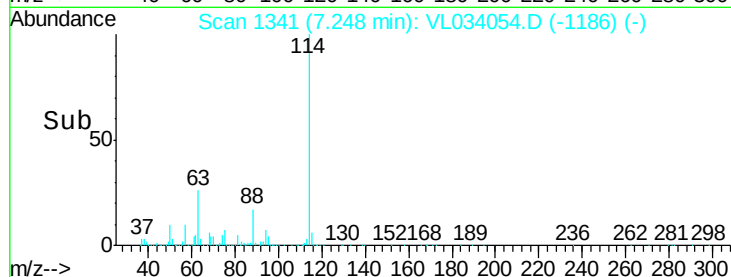
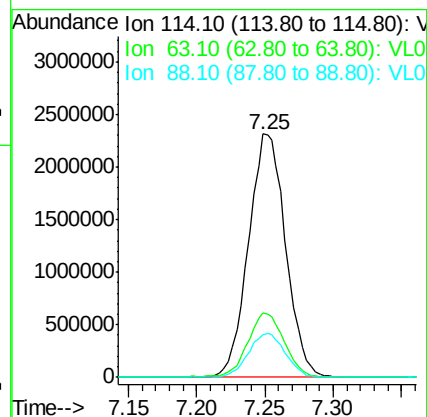
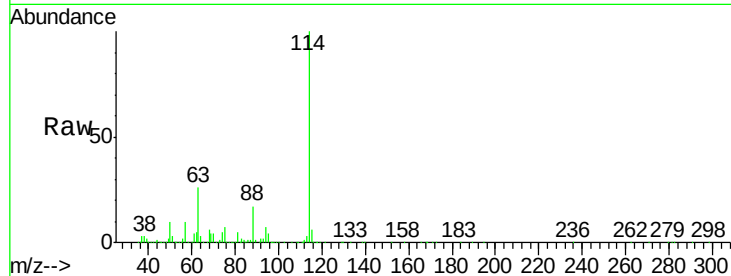
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 114 Resp: 4366231
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.0 31.6
 88 18.0 14.7 22.1

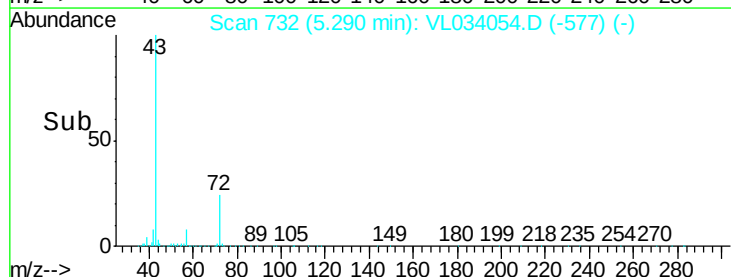
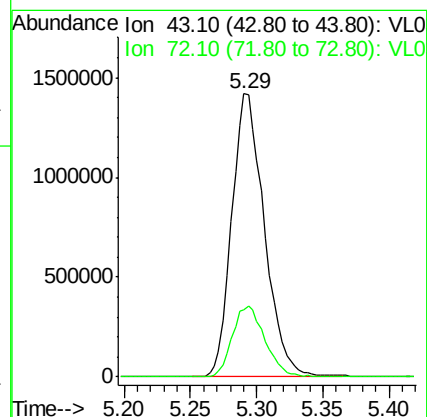
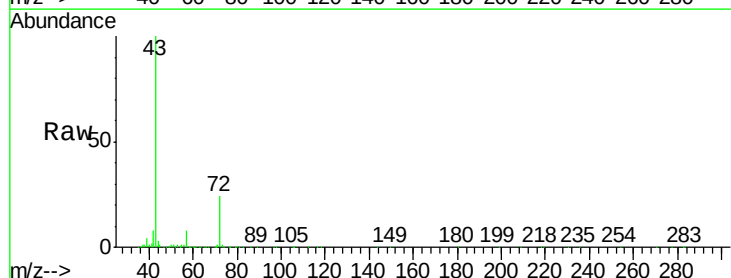
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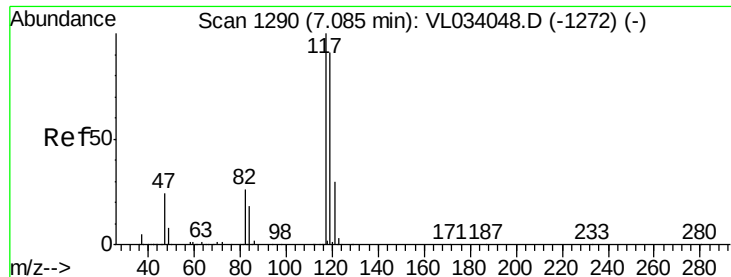
MMdadoda
 8/2/2019 9:37:40 AM



#34
 2-Butanone
 Concen: 11.172 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 43 Resp: 2417908
 Ion Ratio Lower Upper
 43 100
 72 25.3 20.2 30.4





#35

Carbon Tetrachloride

Concen: 14.146 ppbv

RT: 7.09 min Scan# 1292

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 4664972

Ion Ratio Lower Upper

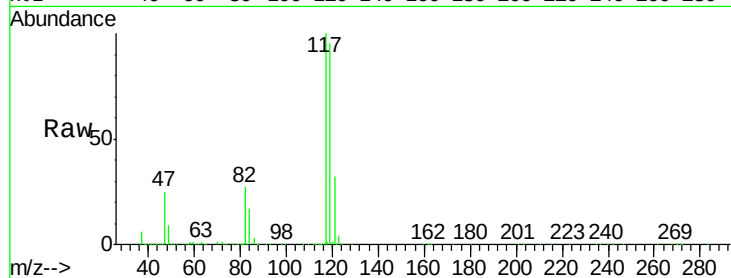
117 100

119 95.0 73.2 109.8

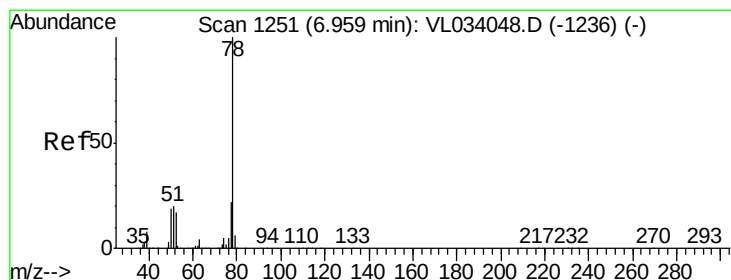
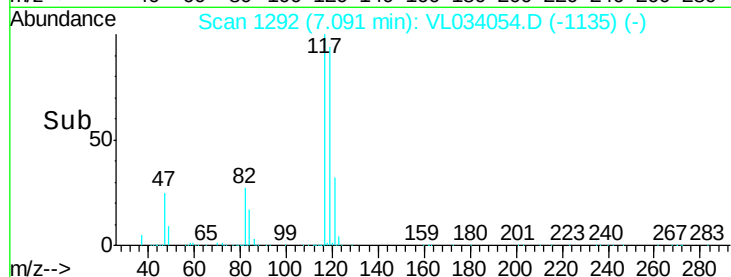
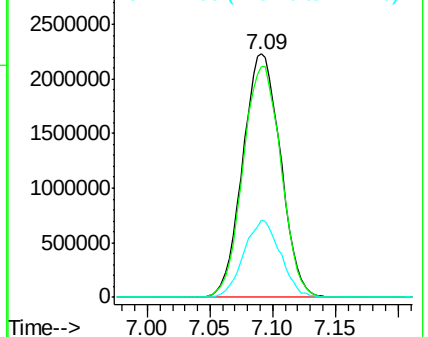
121 31.9 24.0 36.0

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



#36

Benzene

Concen: 16.310 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

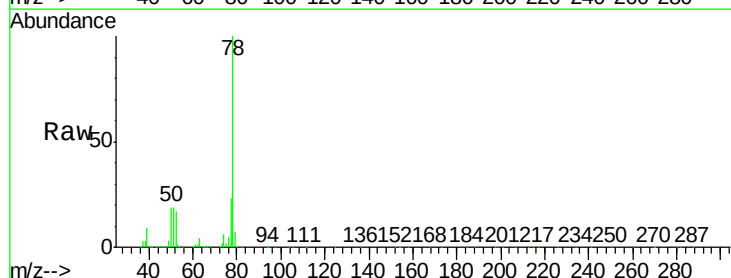
Tgt Ion: 78 Resp: 5167421

Ion Ratio Lower Upper

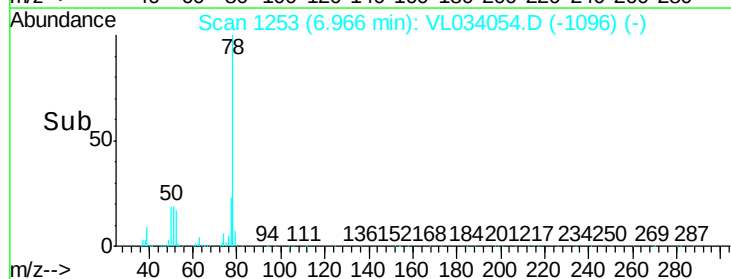
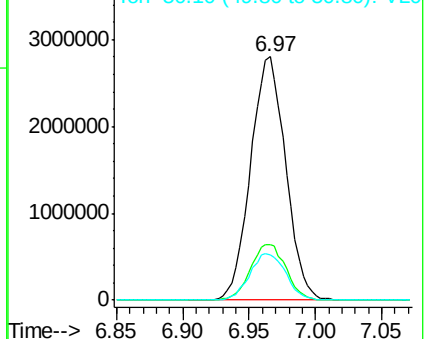
78 100

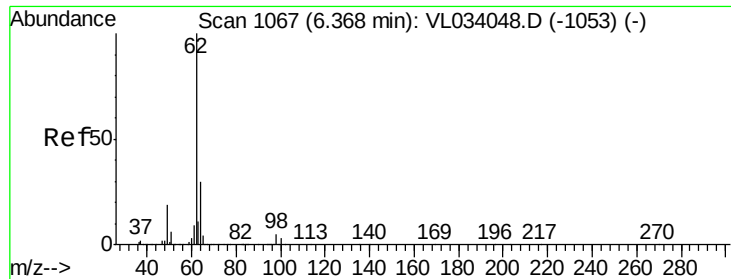
77 22.6 17.9 26.9

50 18.7 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





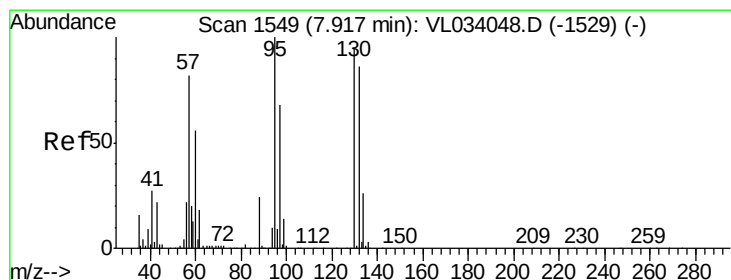
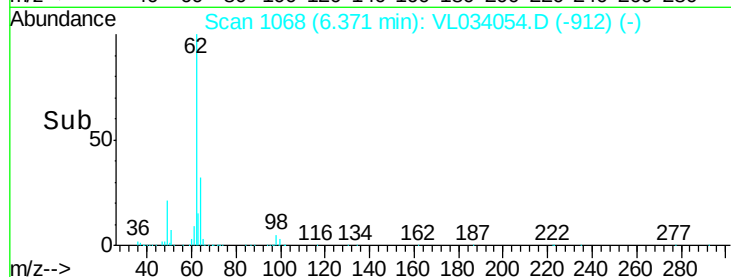
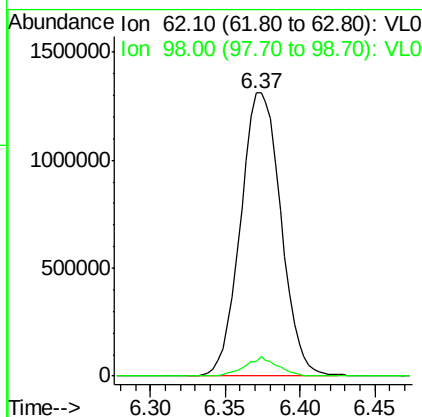
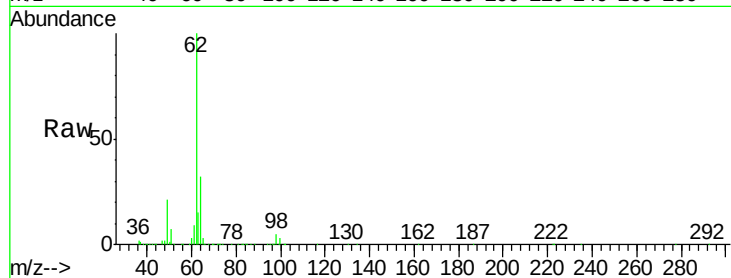
#37
 1,2-Dichloroethane
 Concen: 10.472 ppbv
 RT: 6.37 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2471171
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.2 6.2

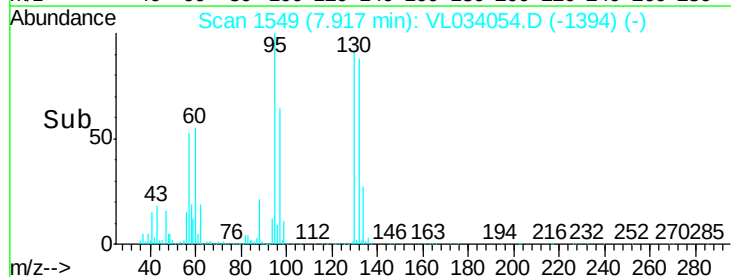
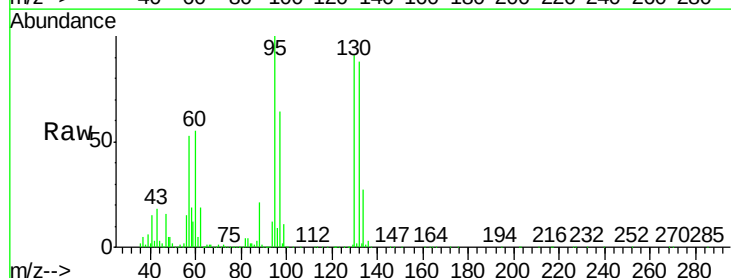
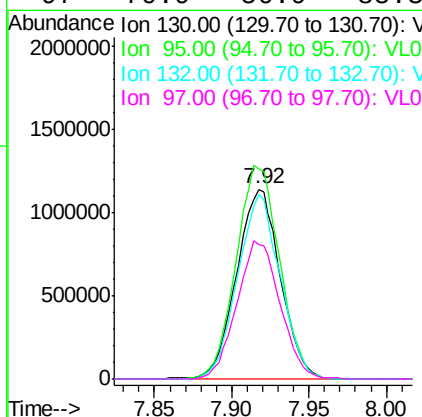
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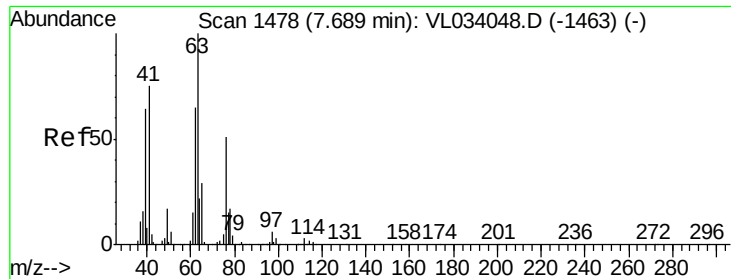
MMdadoda
 8/2/2019 9:37:40 AM



#38
 Trichloroethene
 Concen: 15.328 ppbv
 RT: 7.92 min Scan# 1549
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 130 Resp: 2211288
 Ion Ratio Lower Upper
 130 100
 95 110.2 84.1 126.1
 132 96.8 72.7 109.1
 97 70.9 56.9 85.3





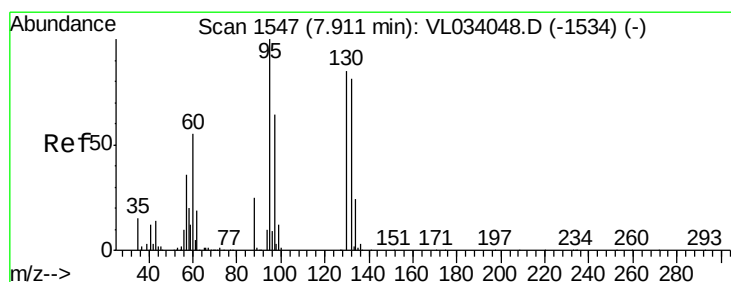
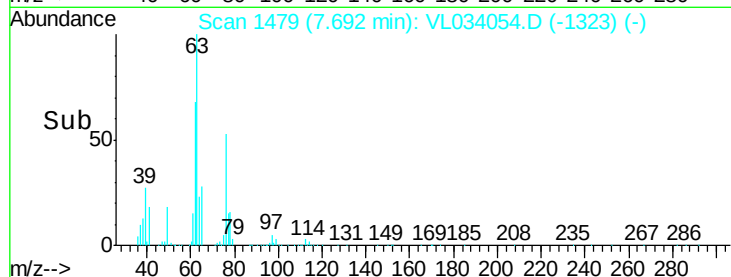
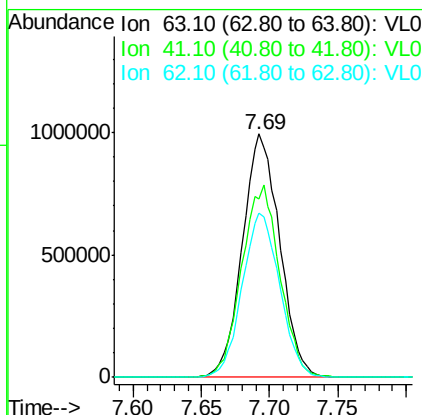
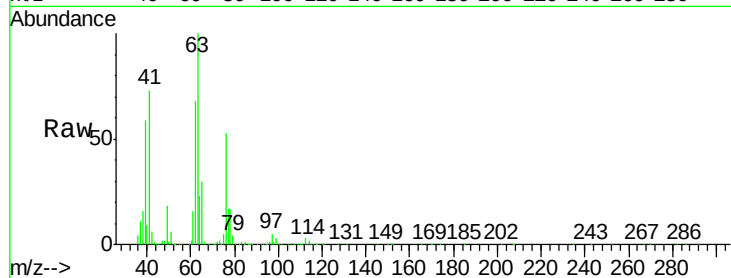
#39
 1,2-Dichloropropane
 Concen: 15.738 ppbv
 RT: 7.69 min Scan# 1479
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	73.4	59.8	89.8
62	67.5	52.2	78.2

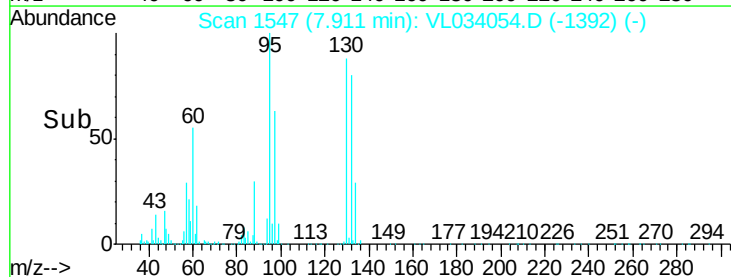
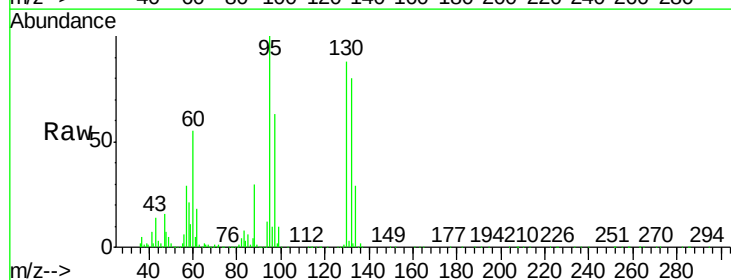
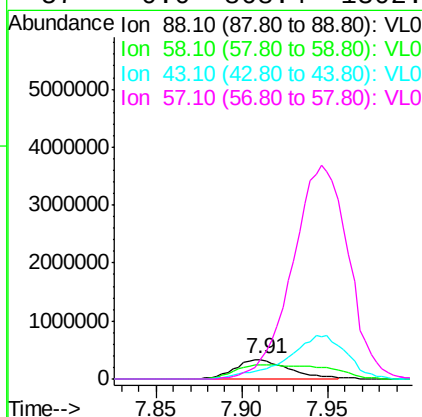
Manual Integrations
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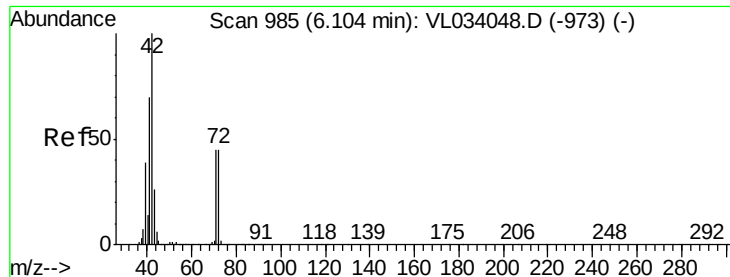
MMdadoda
 8/2/2019 9:37:40 AM



#40
 1,4-Dioxane
 Concen: 13.258 ppbv
 RT: 7.91 min Scan# 1547
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.1	99.6	149.4
43	0.0	189.2	283.8#
57	0.0	868.4	1302.6#





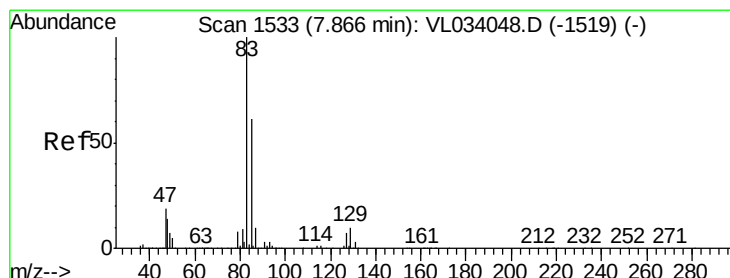
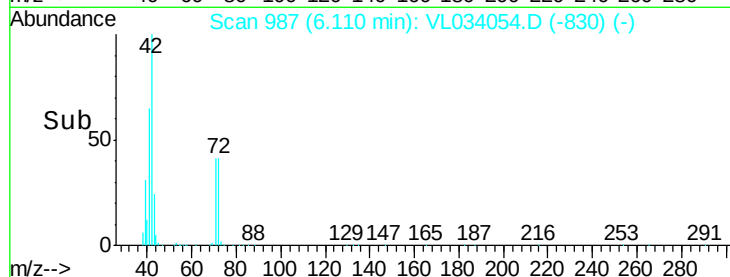
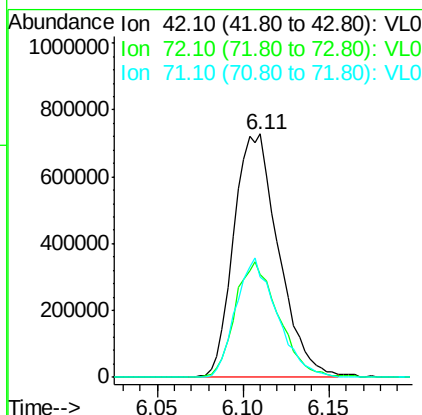
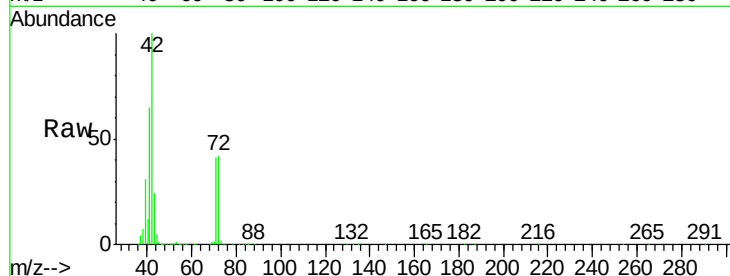
#41
Tetrahydrofuran
Concen: 12.571 ppbv
RT: 6.11 min Scan# 987
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 42 Resp: 1320844
Ion Ratio Lower Upper
42 100
72 46.5 36.9 55.3
71 45.7 36.6 54.8

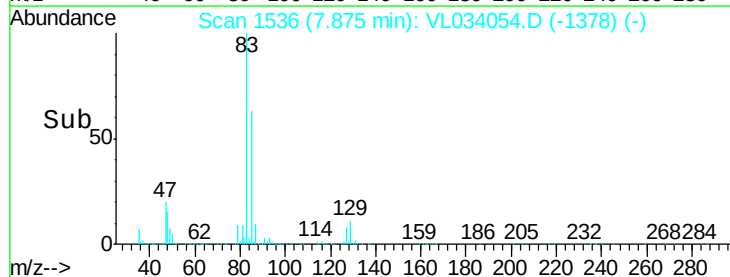
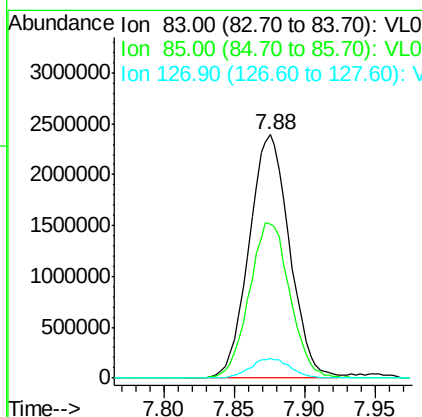
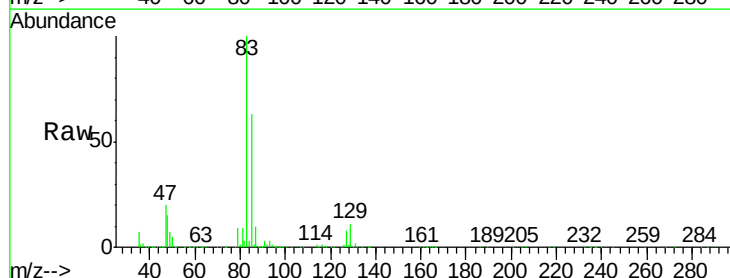
Manual Integrations
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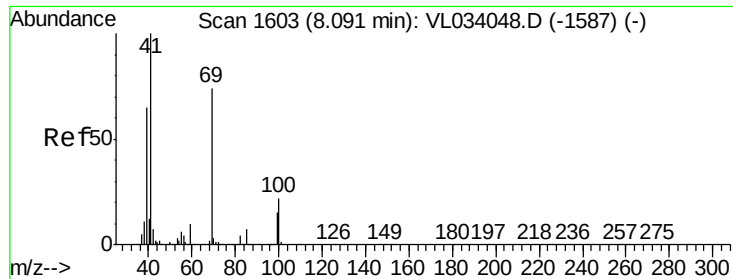
MMdadoda
8/2/2019 9:37:40 AM



#42
Bromodichloromethane
Concen: 15.196 ppbv
RT: 7.88 min Scan# 1536
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 83 Resp: 4795980
Ion Ratio Lower Upper
83 100
85 63.5 48.6 73.0
127 8.0 5.5 8.3





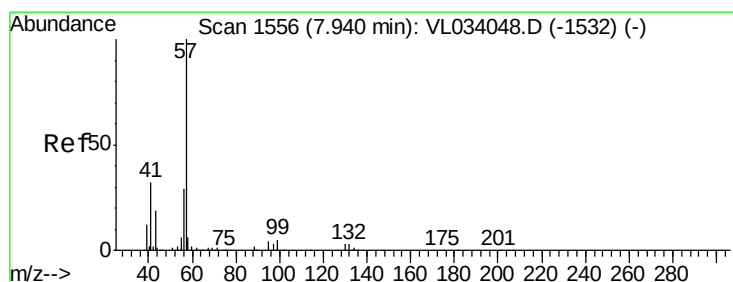
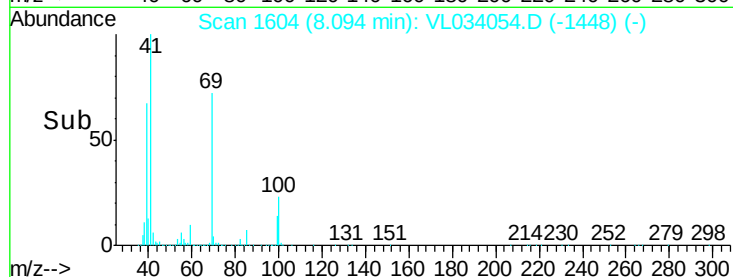
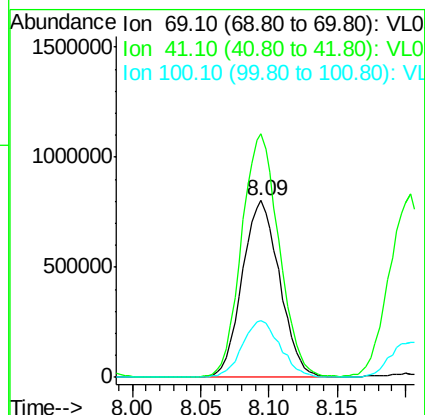
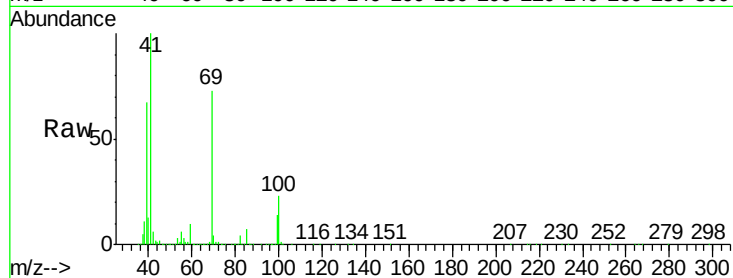
#43
Methyl Methacrylate
Concen: 12.777 ppbv
RT: 8.09 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1532132
Ion Ratio Lower Upper
69 100
41 137.9 112.8 169.2
100 32.5 26.1 39.1

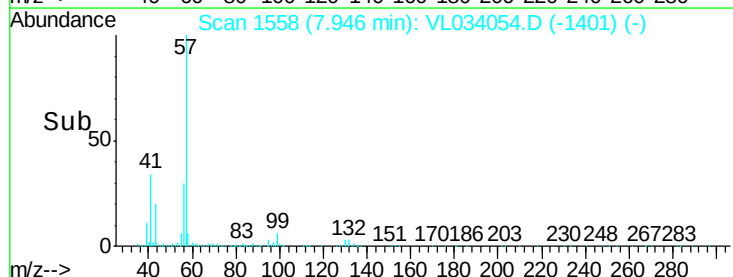
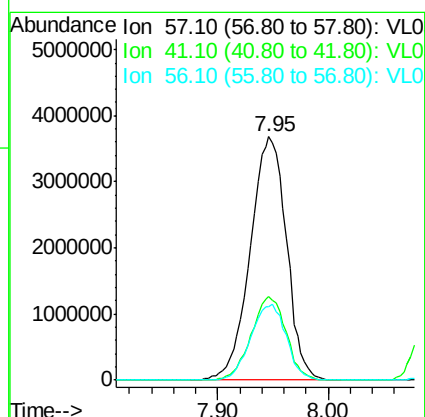
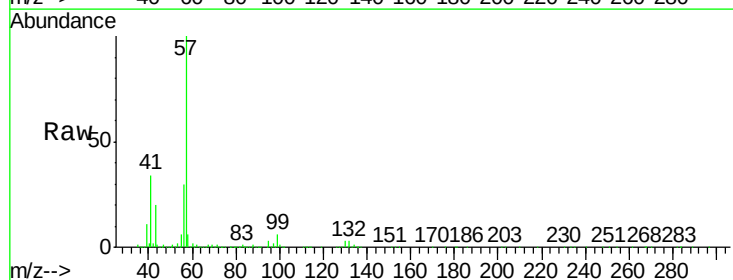
Manual Integrations
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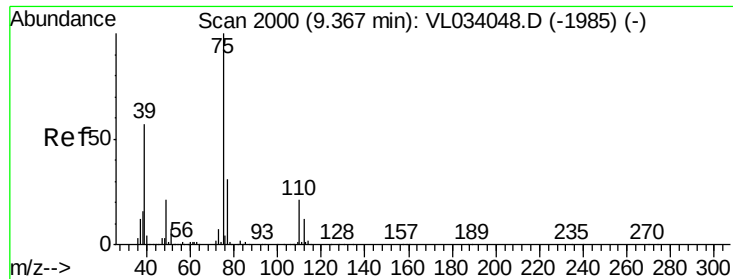
MMdadoda
8/2/2019 9:37:40 AM



#44
2,2,4-Trimethylpentane
Concen: 15.253 ppbv
RT: 7.95 min Scan# 1558
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 57 Resp: 8372138
Ion Ratio Lower Upper
57 100
41 33.1 26.2 39.2
56 30.5 24.2 36.2





#45

t-1,3-Dichloropropene

Concen: 14.185 ppbv

RT: 9.37 min Scan# 2001

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 2200798

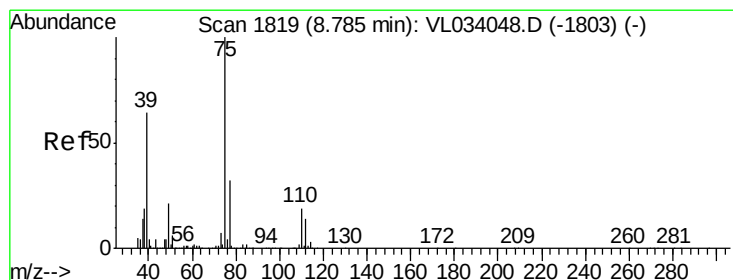
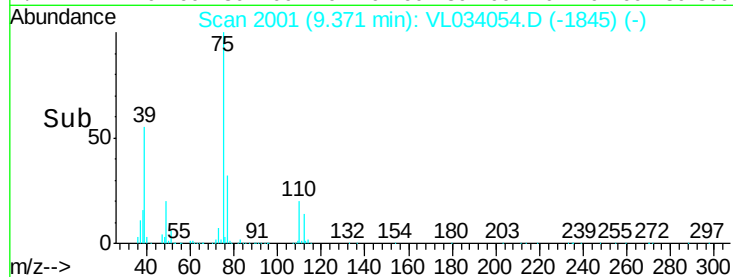
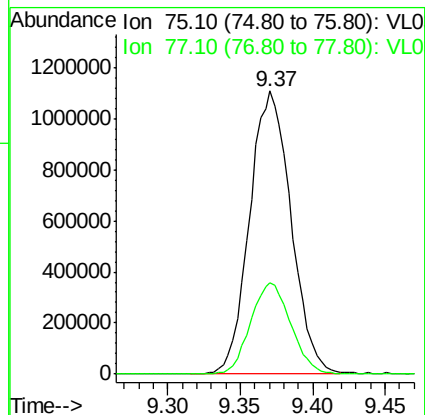
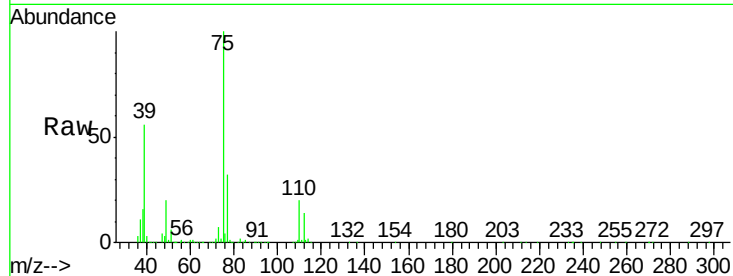
Ion Ratio Lower Upper

75 100

77 32.4 24.6 37.0

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#46

cis-1,3-Dichloropropene

Concen: 13.492 ppbv

RT: 8.79 min Scan# 1821

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

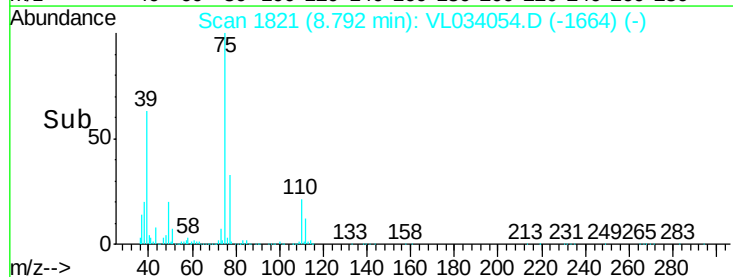
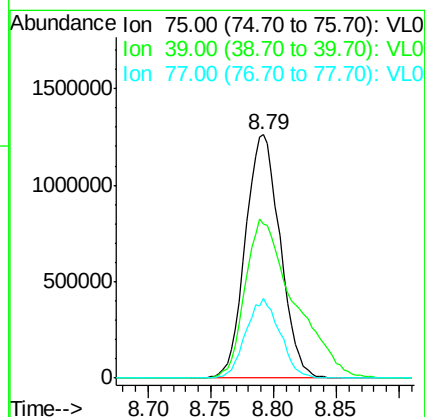
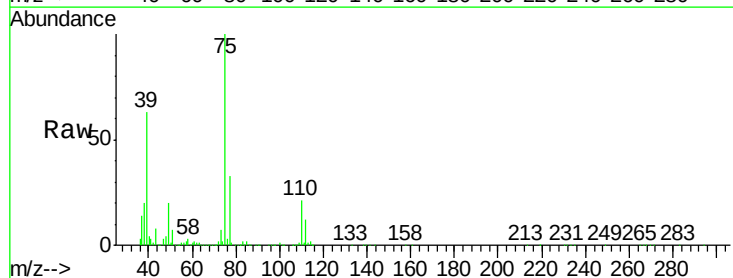
Tgt Ion: 75 Resp: 2439834

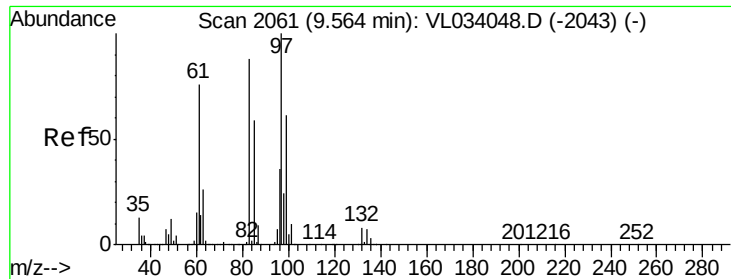
Ion Ratio Lower Upper

75 100

39 63.2 51.4 77.2

77 32.7 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 10.944 ppbv

RT: 9.57 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 1629766

Ion Ratio Lower Upper

97 100

83 83.6 70.6 106.0

85 53.8 47.3 70.9

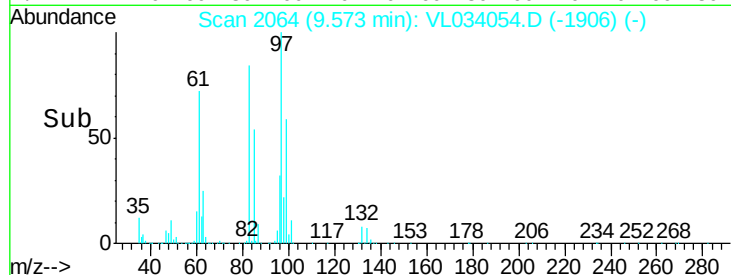
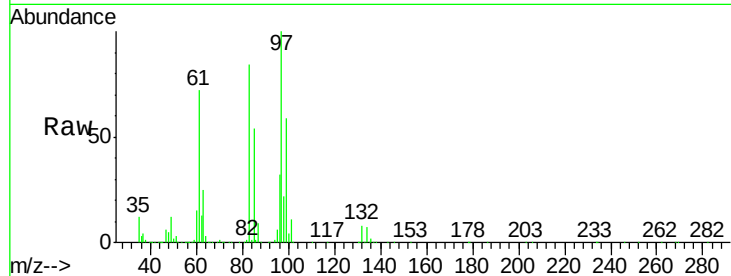
99 59.4 48.6 72.8

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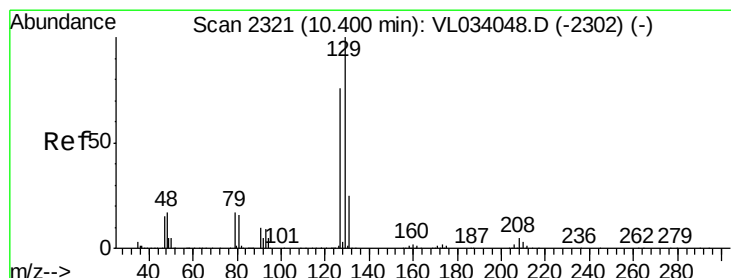
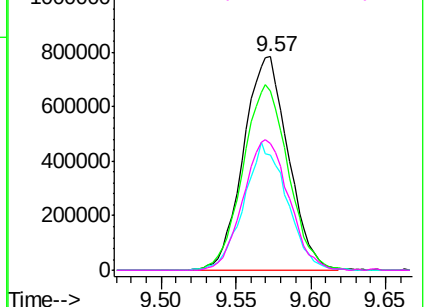


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.102 ppbv

RT: 10.40 min Scan# 2322

Delta R.T. 0.00 min

Lab File: VL034054.D

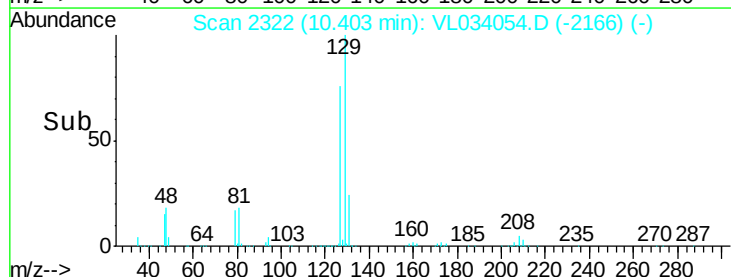
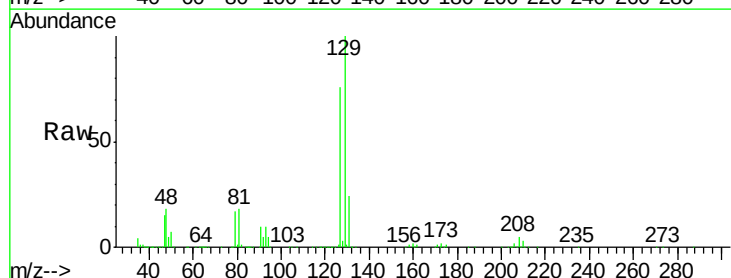
Acq: 30 Jul 2019 6:00

Tgt Ion: 129 Resp: 3028844

Ion Ratio Lower Upper

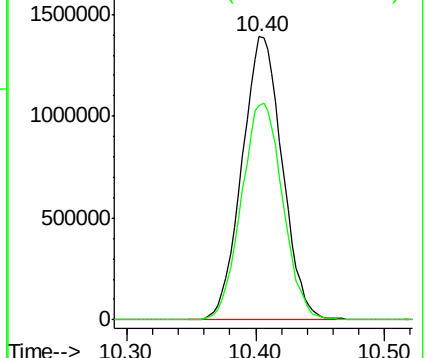
129 100

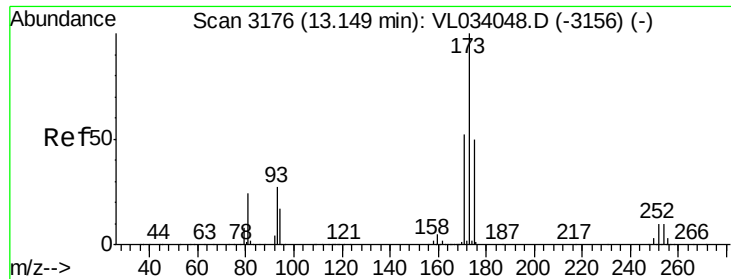
127 78.6 38.6 115.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.761 ppbv

RT: 13.15 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2857766

Ion Ratio Lower Upper

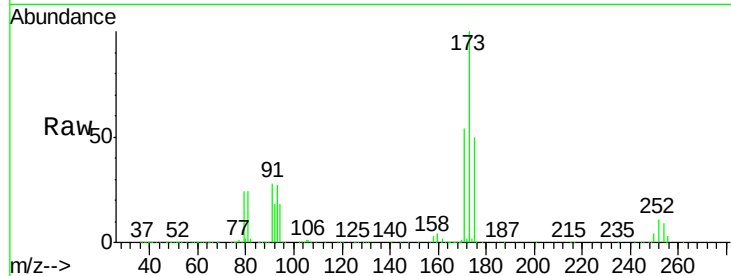
173 100

175 50.4 39.4 59.0

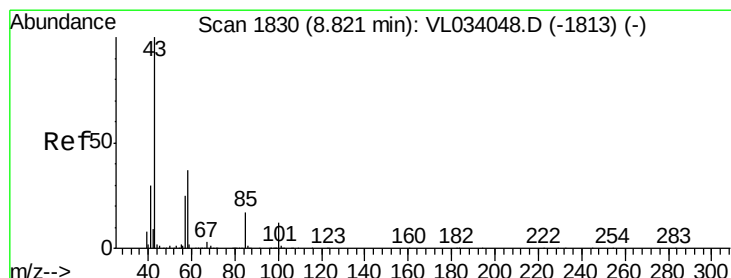
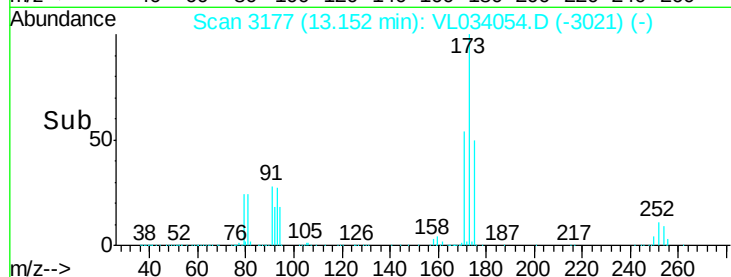
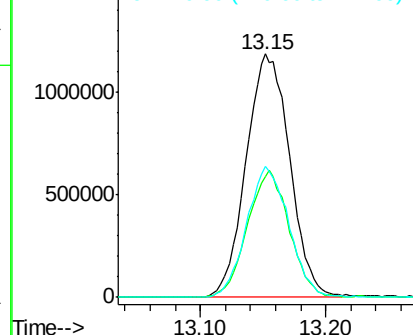
171 52.5 41.9 62.9

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



#50

4-Methyl-2-Pentanone

Concen: 12.008 ppbv

RT: 8.82 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VL034054.D

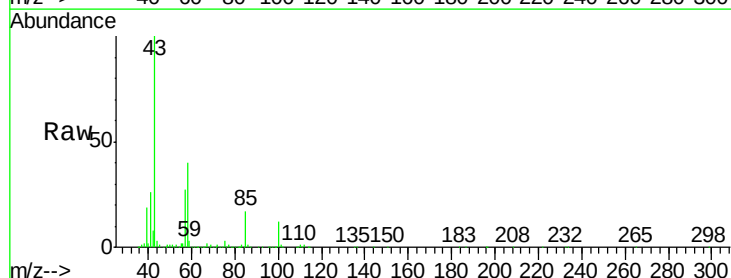
Acq: 30 Jul 2019 6:00

Tgt Ion: 43 Resp: 3824580

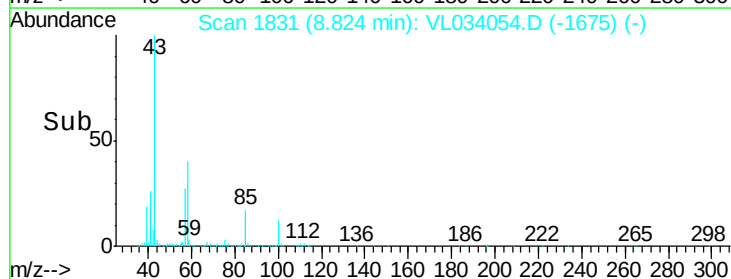
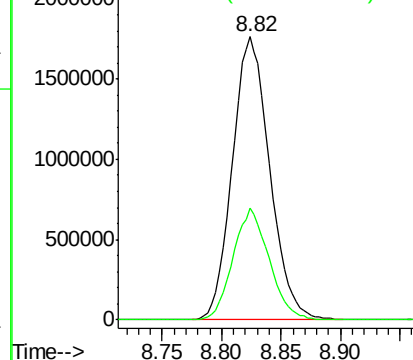
Ion Ratio Lower Upper

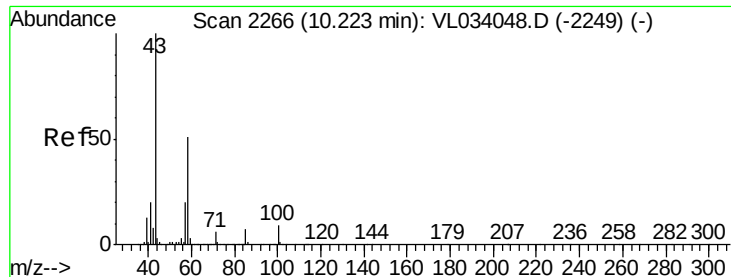
43 100

58 38.3 30.7 46.1



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





#51

2-Hexanone

Concen: 11.501 ppbv

RT: 10.22 min Scan# 2266

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3131616

Ion Ratio Lower Upper

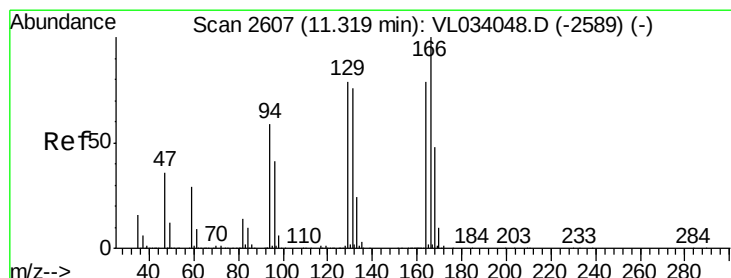
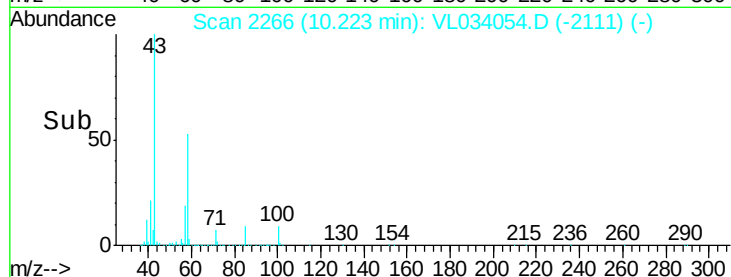
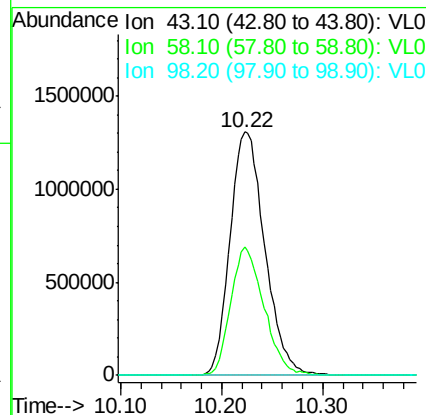
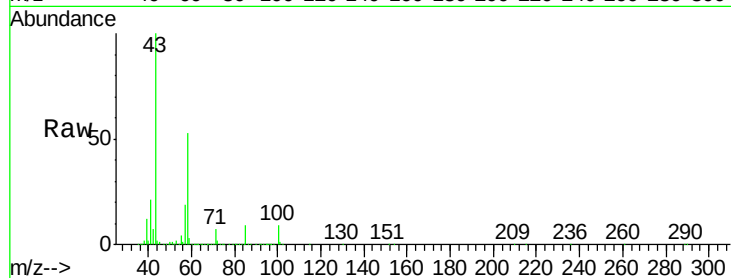
43 100

58 50.7 40.2 60.2

98 0.3 0.4 0.6#

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#52

Tetrachloroethene

Concen: 11.092 ppbv

RT: 11.33 min Scan# 2609

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tgt Ion: 164 Resp: 1545291

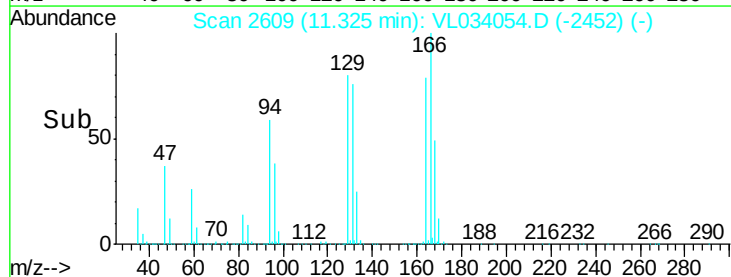
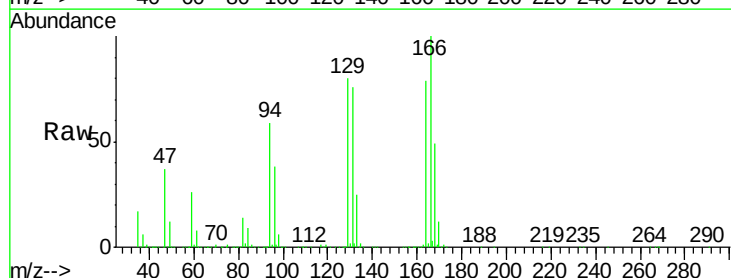
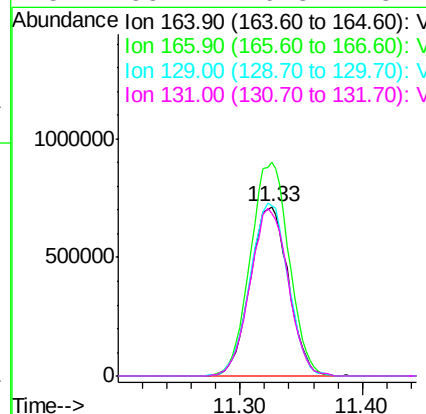
Ion Ratio Lower Upper

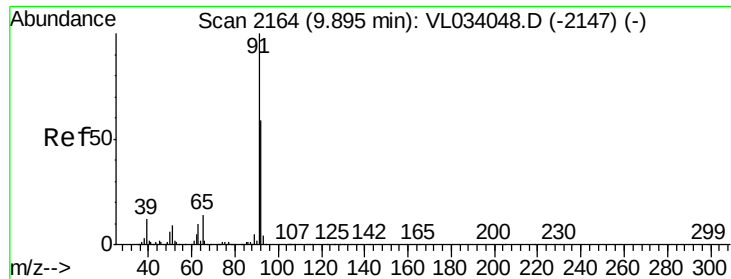
164 100

166 125.9 101.6 152.4

129 100.6 80.7 121.1

131 95.7 76.8 115.2





#53

Toluene

Concen: 12.835 ppbv

RT: 9.90 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4629882

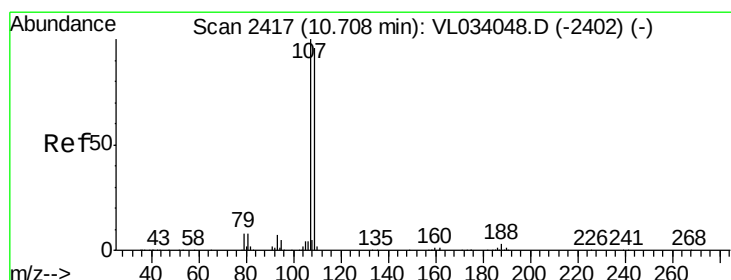
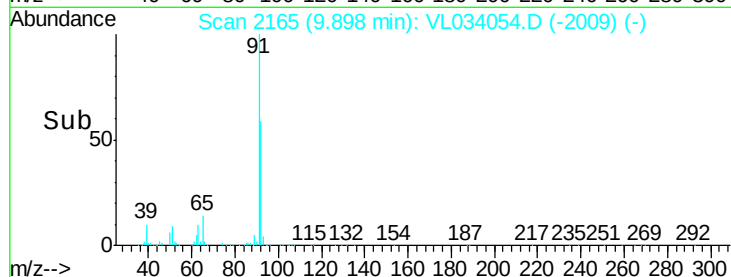
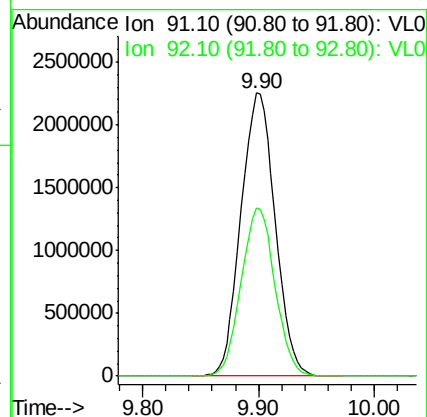
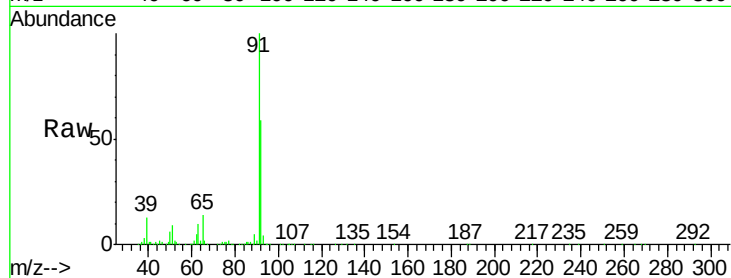
Ion Ratio Lower Upper

91 100

92 58.8 47.4 71.2

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#54

1,2-Dibromoethane

Concen: 11.672 ppbv

RT: 10.71 min Scan# 2418

Delta R.T. 0.00 min

Lab File: VL034054.D

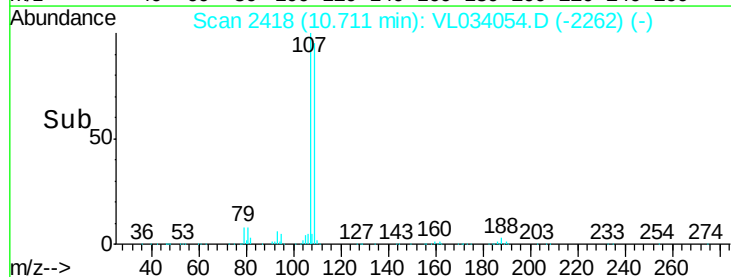
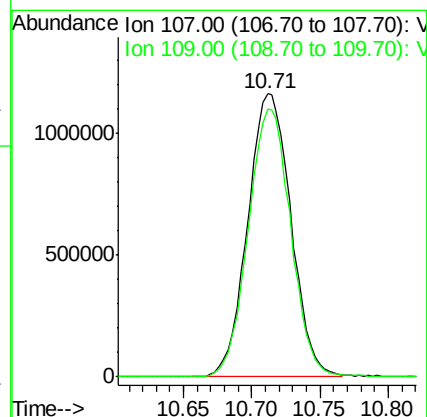
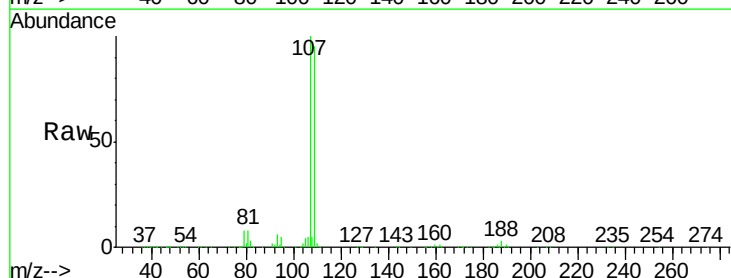
Acq: 30 Jul 2019 6:00

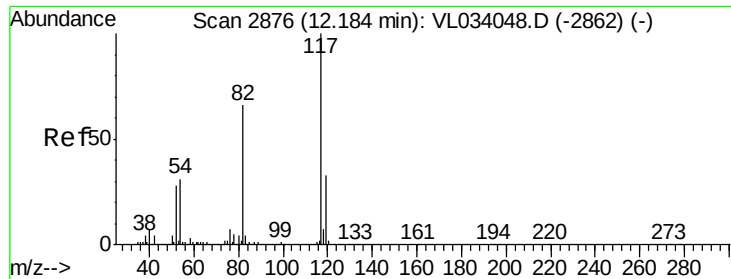
Tgt Ion: 107 Resp: 2549064

Ion Ratio Lower Upper

107 100

109 94.5 76.6 115.0





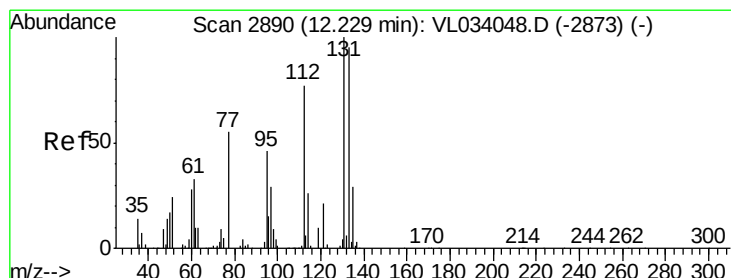
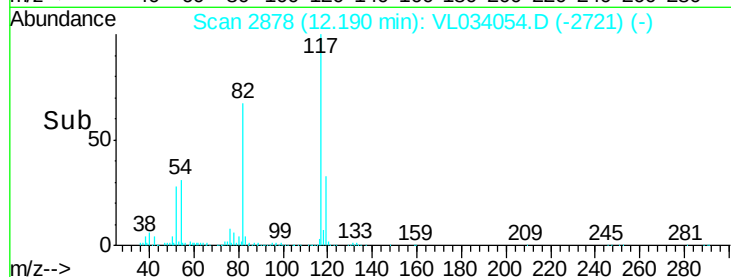
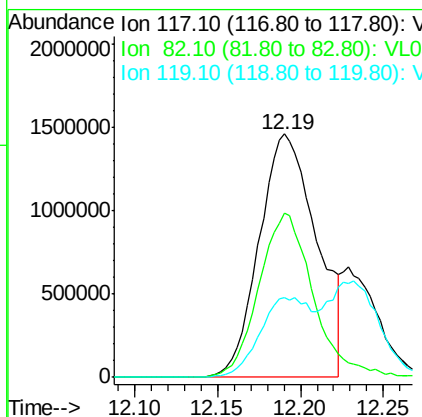
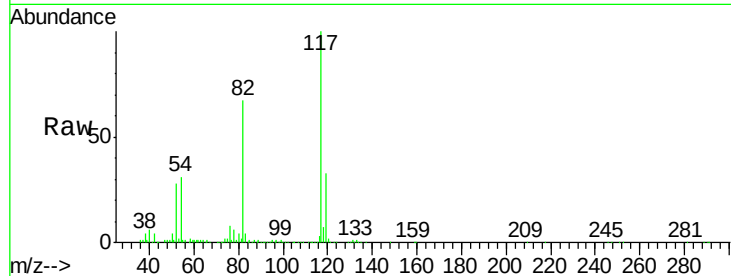
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2878
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3535469
Ion Ratio Lower Upper
117 100
82 64.1 49.8 74.8
119 0.0 43.0 64.6#

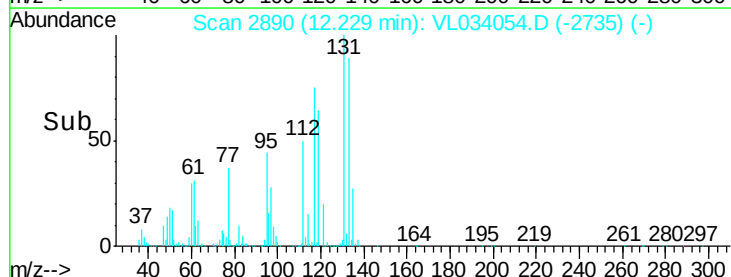
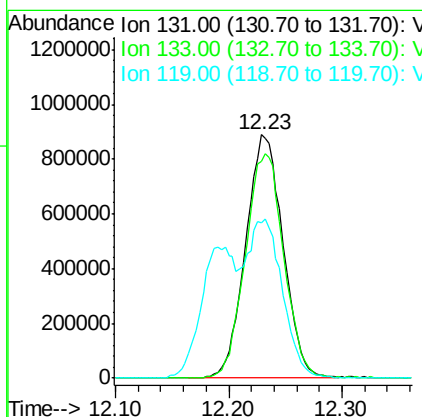
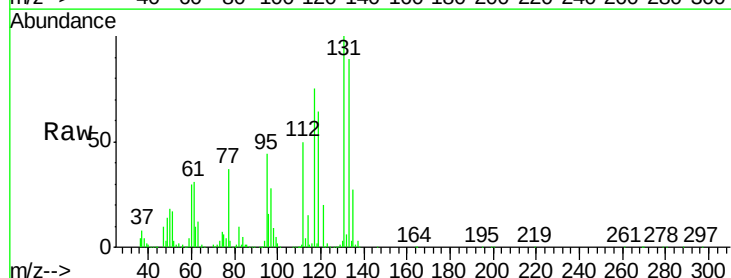
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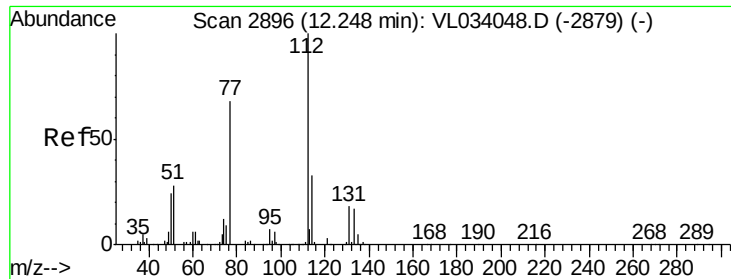
MMdadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 13.108 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion:131 Resp: 2038328
Ion Ratio Lower Upper
131 100
133 95.1 76.6 114.8
119 66.2 46.6 69.8





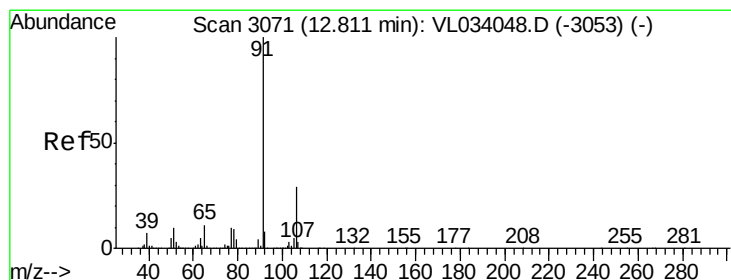
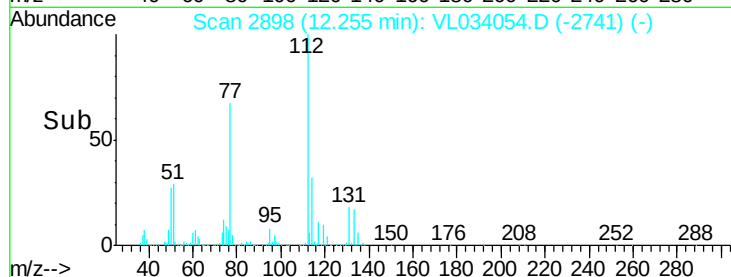
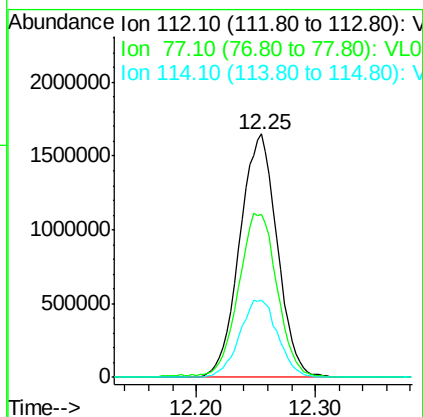
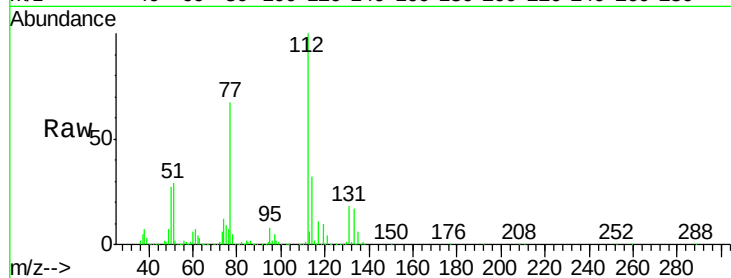
#57
Chlorobenzene
Concen: 12.979 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	67.0	55.1	82.7
114	31.6	29.5	36.1

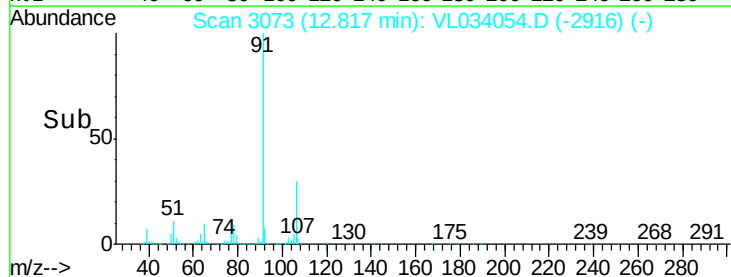
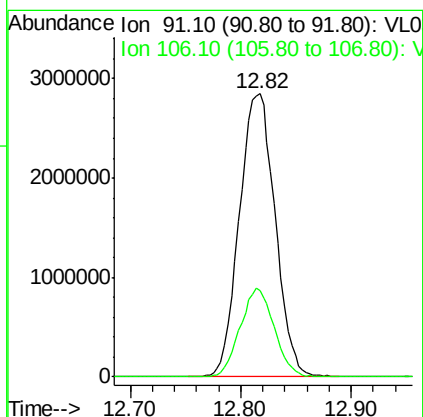
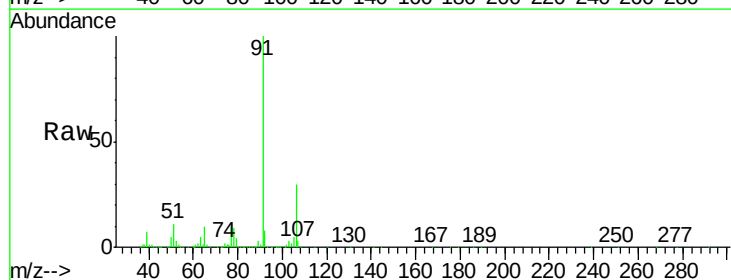
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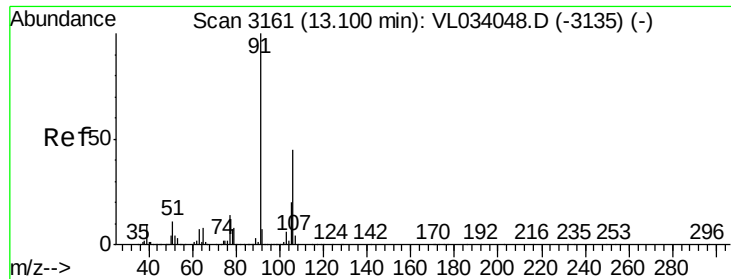
MMDadoda
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#58
Ethyl Benzene
Concen: 15.341 ppbv
RT: 12.82 min Scan# 3073
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.5	35.3





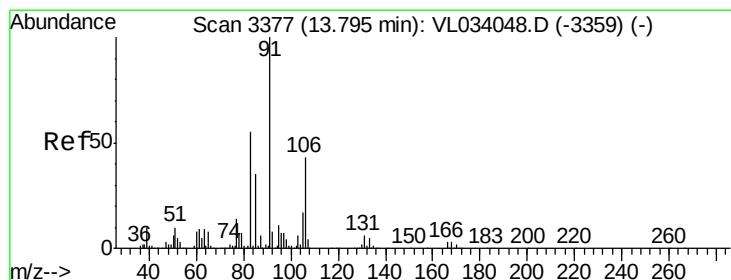
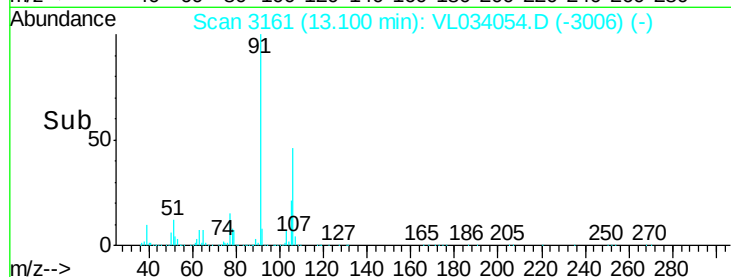
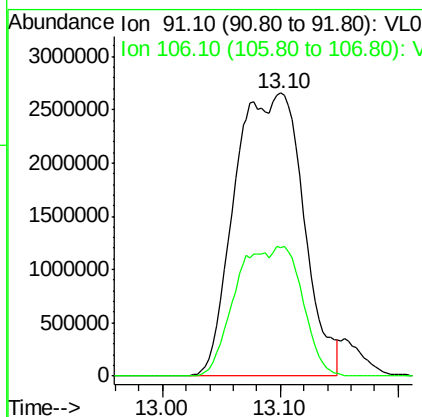
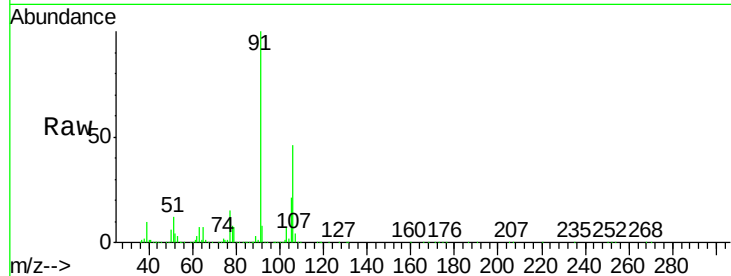
#59
m/p-Xylene
Concen: 28.322 ppbv m
RT: 13.10 min Scan# 3161
Delta R.T. -0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 10737742
Ion Ratio Lower Upper
91 100
106 44.4 35.1 52.7

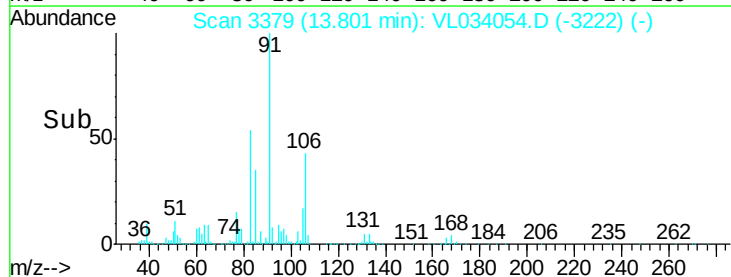
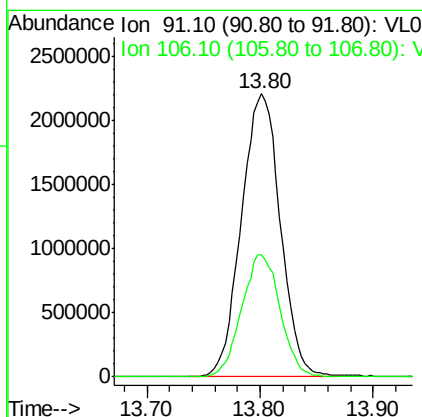
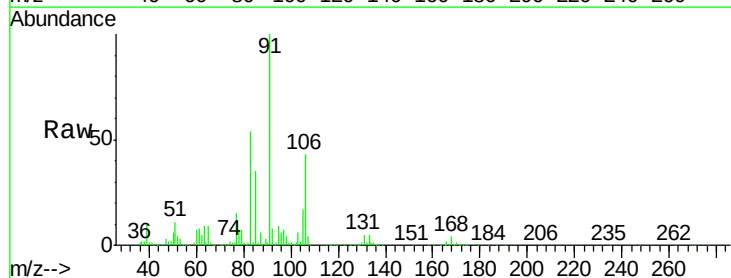
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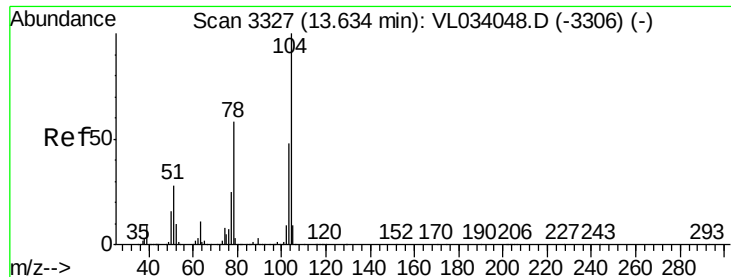
MMdadoda
8/2/2019 9:37:40 AM



#60
o-Xylene
Concen: 13.875 ppbv
RT: 13.80 min Scan# 3379
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 91 Resp: 5278110
Ion Ratio Lower Upper
91 100
106 42.9 21.2 63.6





#61

Stvrene

Concen: 16.235 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 4060062

Ion Ratio Lower Upper

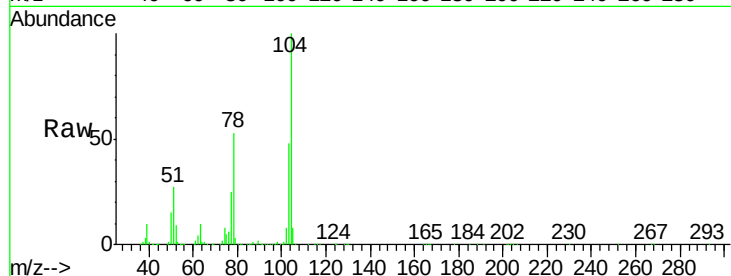
104 100

78 55.0 44.3 66.5

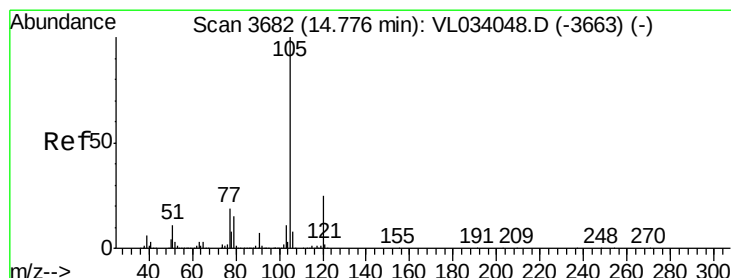
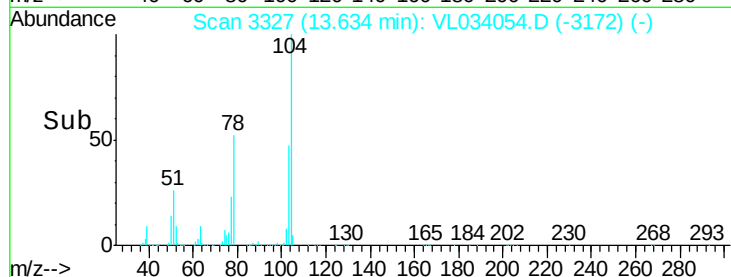
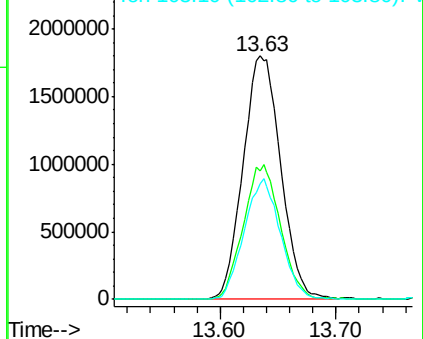
103 47.9 38.8 58.2

Manual Integrations
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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: 12.635 ppbv

RT: 14.78 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VL034054.D

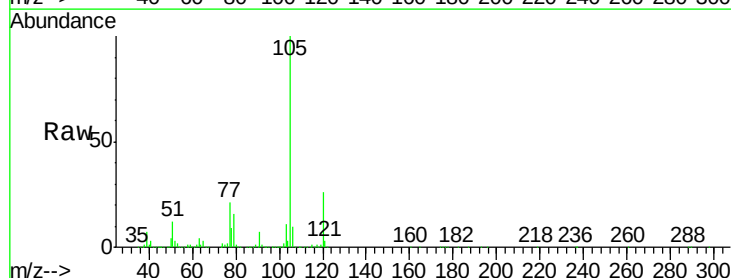
Acq: 30 Jul 2019 6:00

Tgt Ion:105 Resp: 6941804

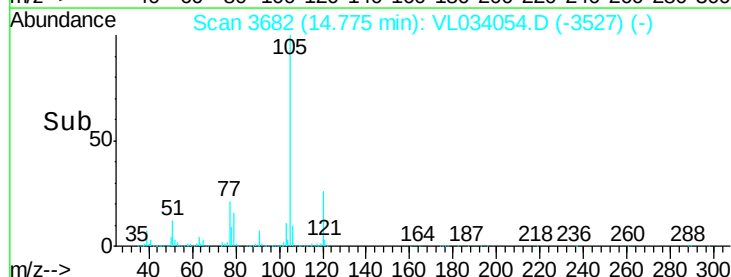
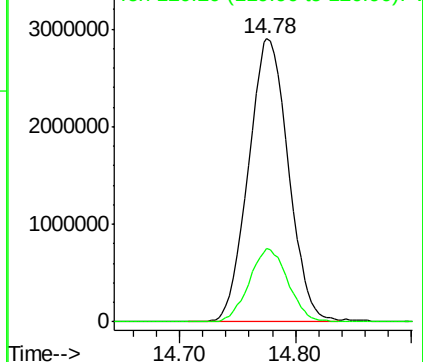
Ion Ratio Lower Upper

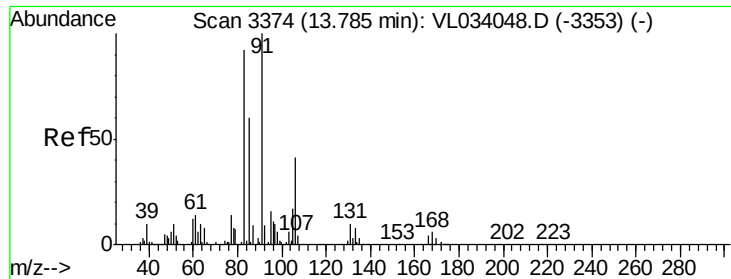
105 100

120 25.3 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





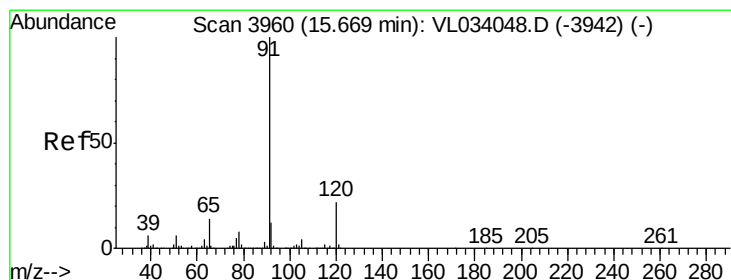
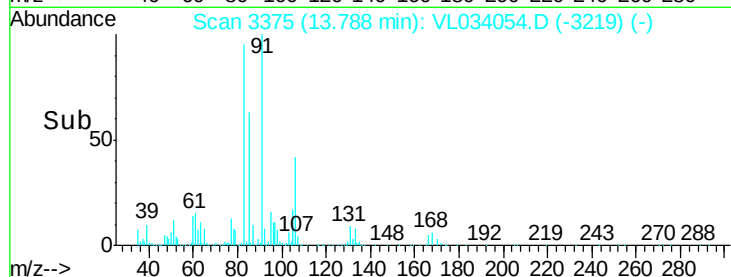
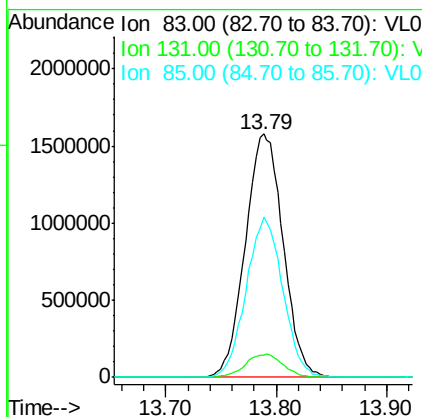
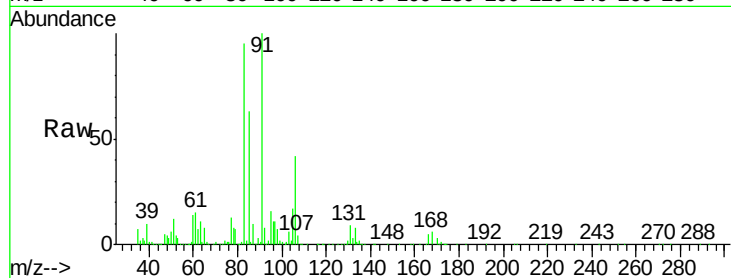
#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.687 ppbv
 RT: 13.79 min Scan# 3375
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	83	Resp	3745558
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.8	14.4
85	63.9	32.4	97.0

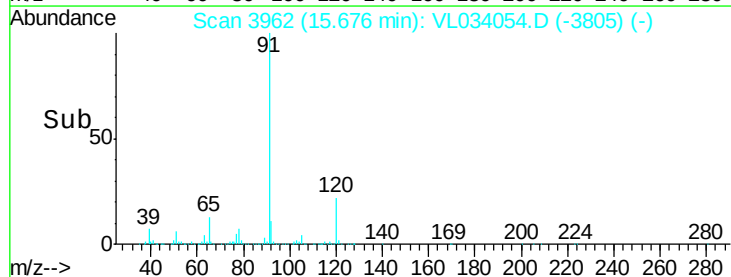
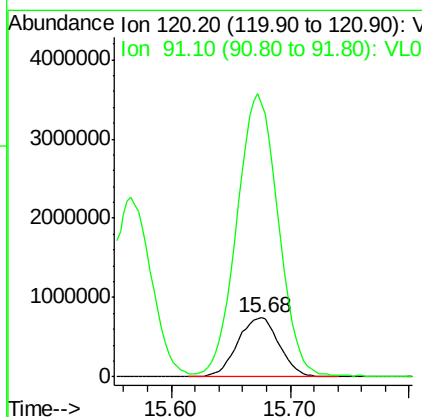
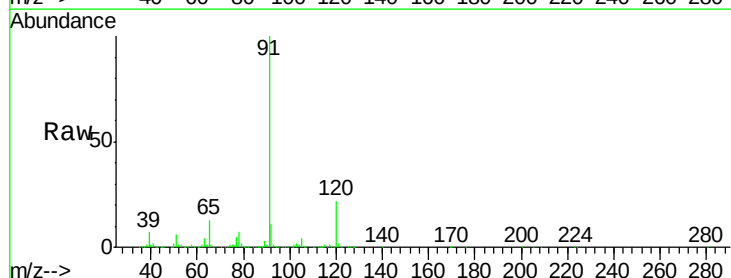
Manual Integrations
 APPROVED

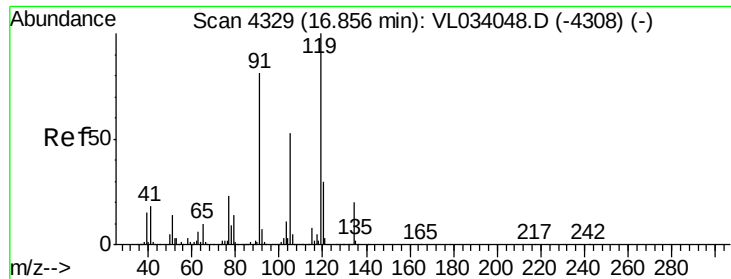
MMDadoda
 8/2/2019 9:37:40 AM



#64
 n-propylbenzene
 Concen: 12.700 ppbv
 RT: 15.68 min Scan# 3962
 Delta R.T. 0.01 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion	120	Resp	1804769
Ion Ratio	100	Lower	Upper
120	100		
91	478.1	386.2	579.2





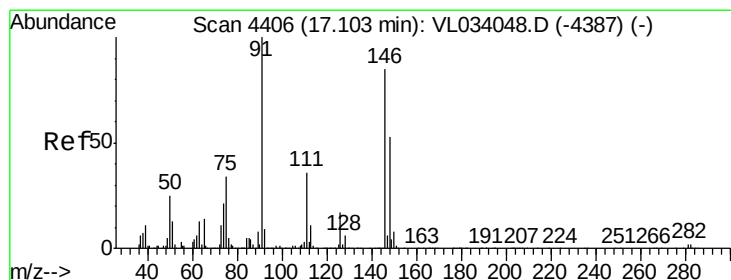
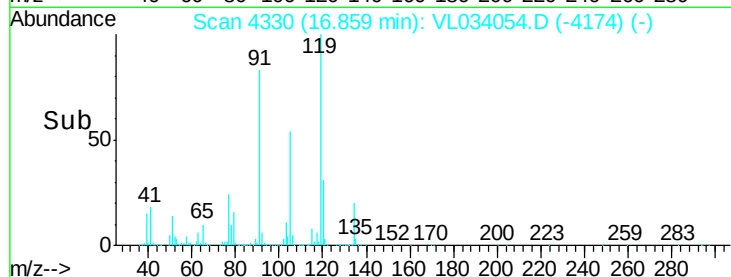
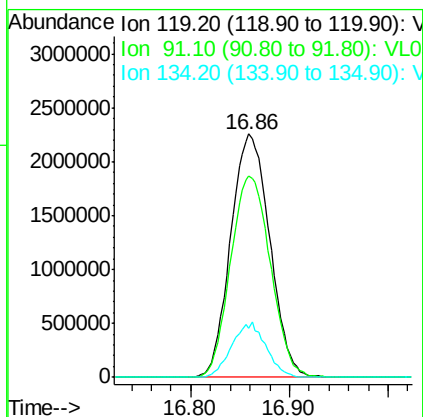
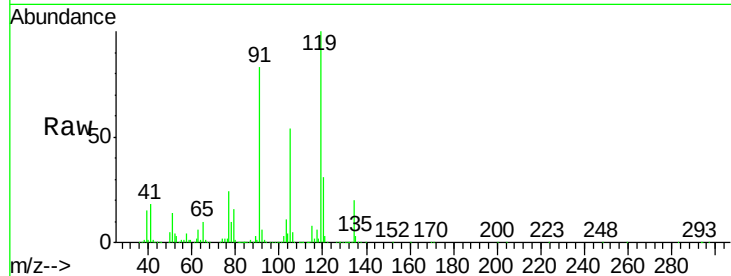
#65
tert-Butylbenzene
Concen: 13.350 ppbv
RT: 16.86 min Scan# 4330
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.6	66.9	100.3
134	19.9	15.5	23.3

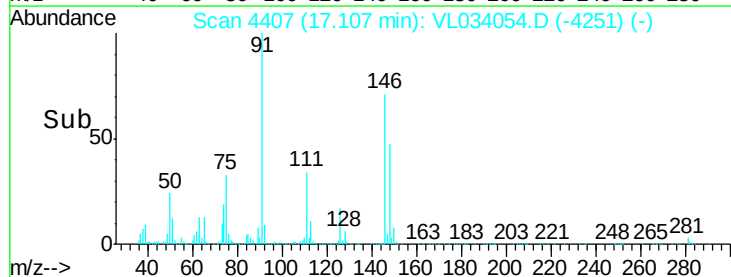
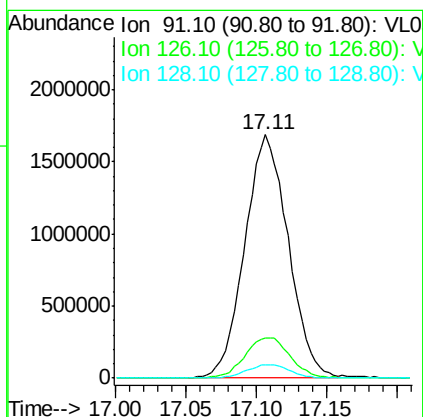
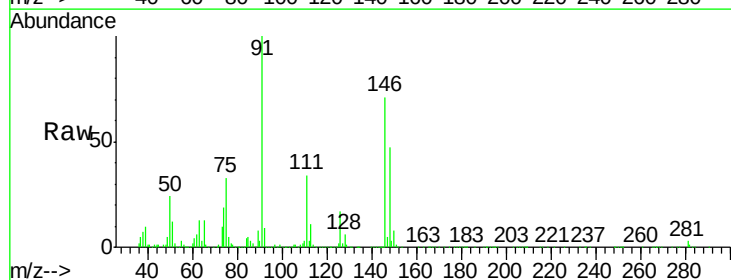
Manual Integrations
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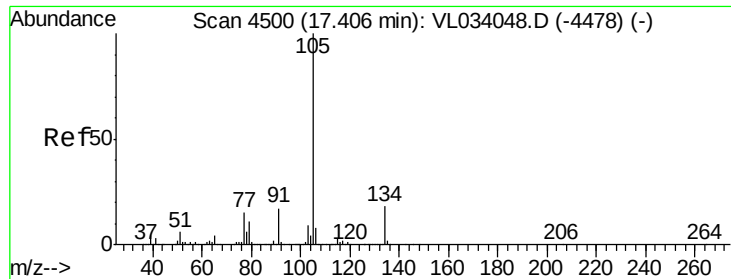
MMDadoda
8/2/2019 9:37:40 AM



#66
Benzyl Chloride
Concen: 15.501 ppbv
RT: 17.11 min Scan# 4407
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.4	13.5	20.3
128	5.6	4.5	6.7





#67

sec-Butylbenzene

Concen: 13.523 ppbv

RT: 17.41 min Scan# 4501

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8840090

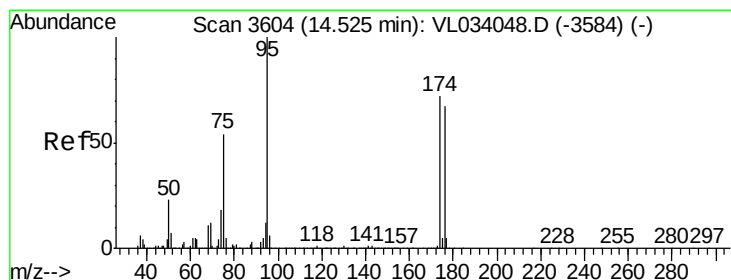
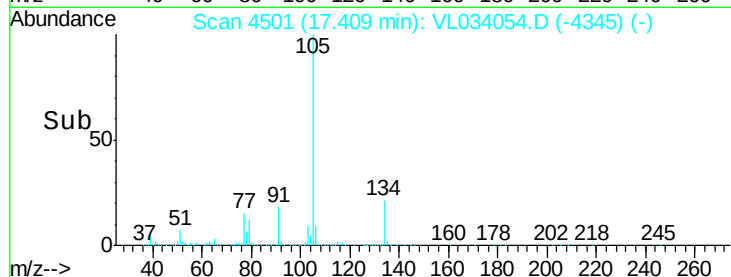
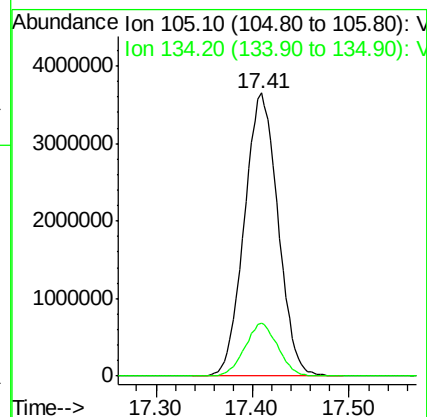
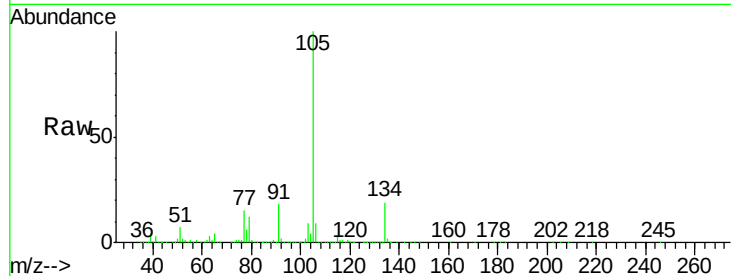
Ion Ratio Lower Upper

105 100

134 18.4 14.3 21.5

Manual Integrations
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MMdadoda
8/2/2019 9:37:40 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.073 ppbv

RT: 14.53 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

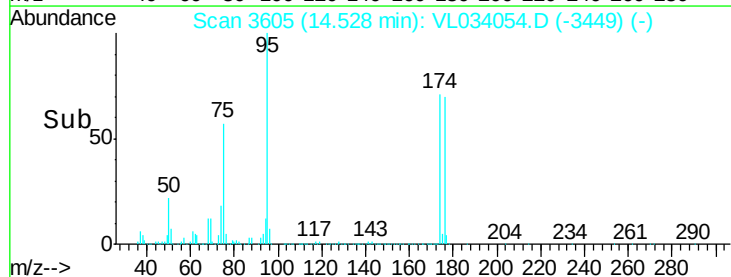
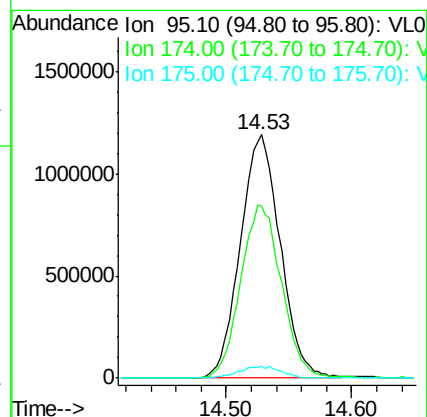
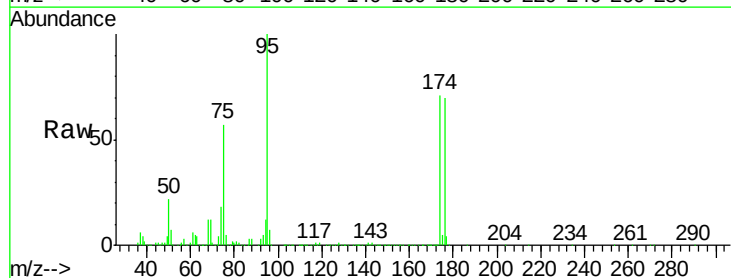
Tgt Ion: 95 Resp: 2632605

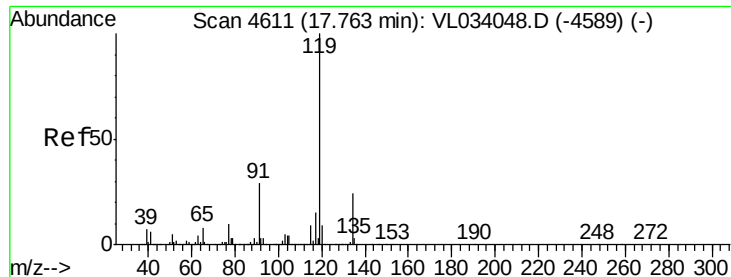
Ion Ratio Lower Upper

95 100

174 73.3 57.6 86.4

175 5.1 4.1 6.1





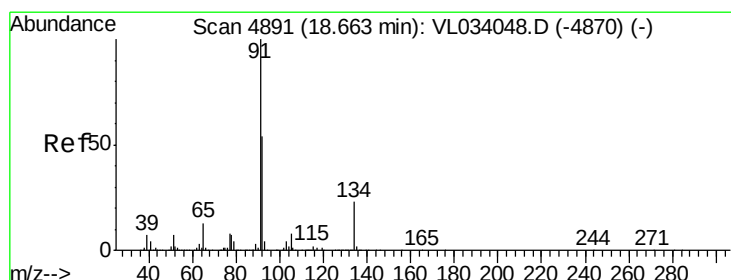
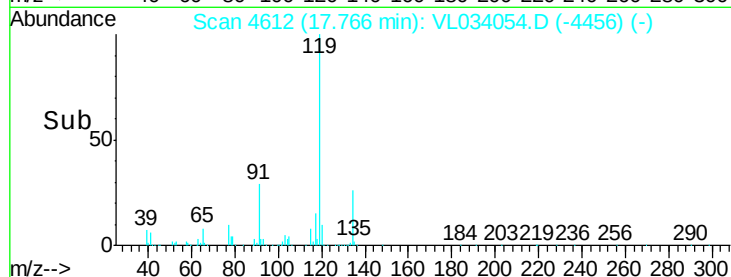
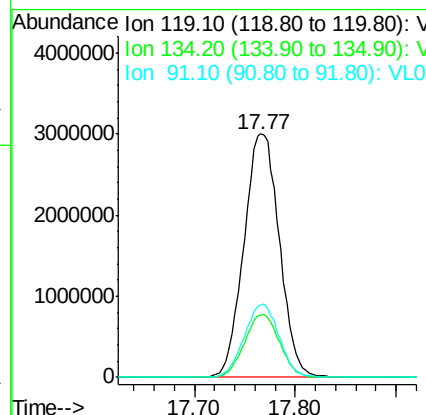
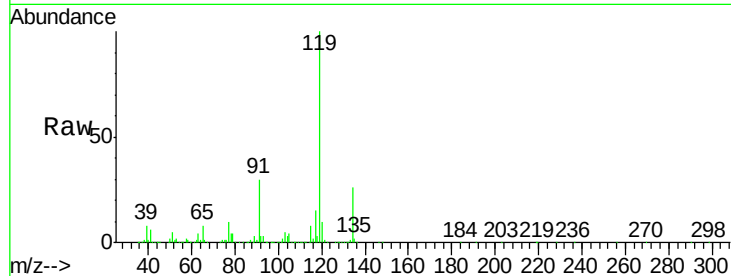
#69
 p-Isopropyltoluene
 Concen: 13.570 ppbv
 RT: 17.77 min Scan# 4612
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.1	30.1
91	29.6	23.6	35.4

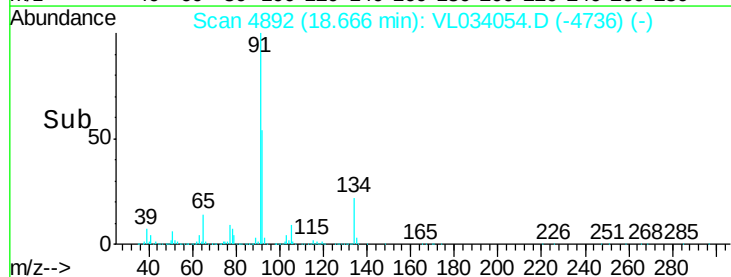
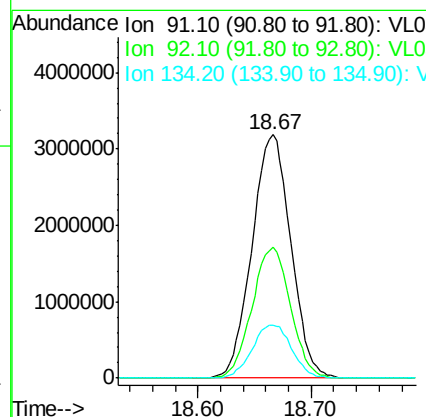
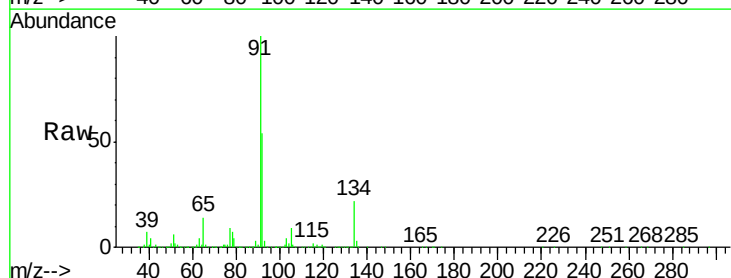
Manual Integrations
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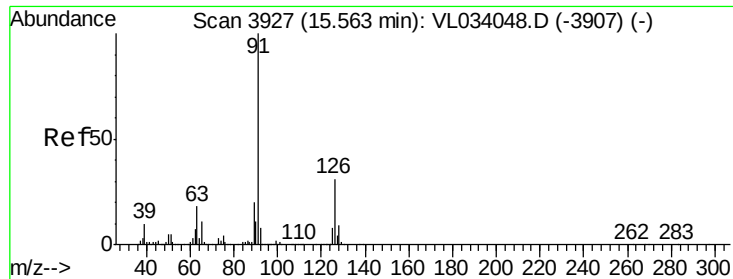
MMDadoda
 8/2/2019 9:37:40 AM



#70
 n-Butylbenzene
 Concen: 13.436 ppbv
 RT: 18.67 min Scan# 4892
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.6	64.0
134	22.2	17.7	26.5





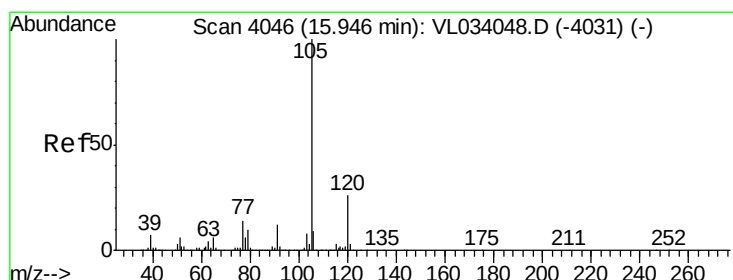
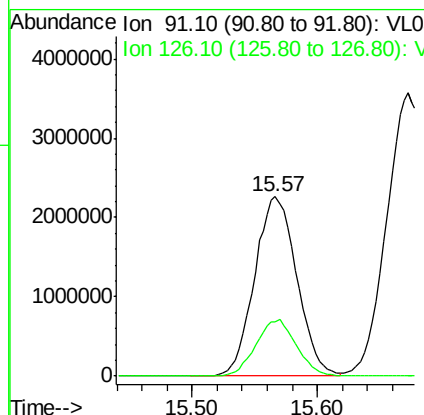
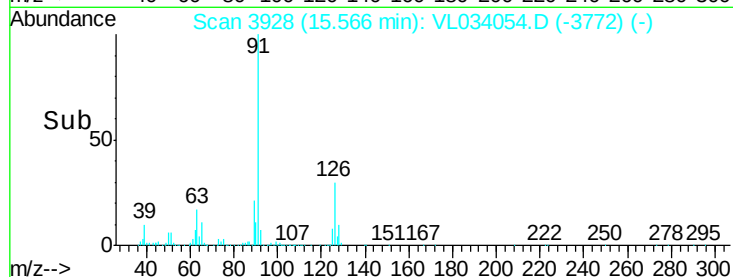
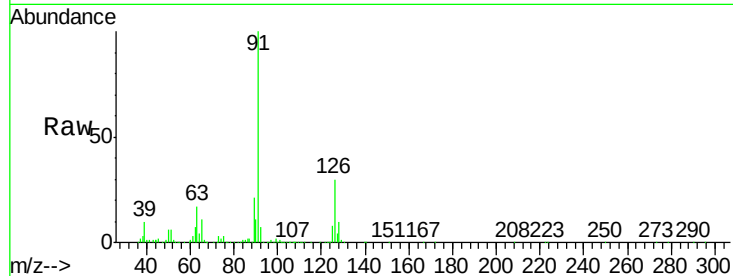
#71
2-Chlorotoluene
Concen: 13.242 ppbv
RT: 15.57 min Scan# 3928
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 5298204
Ion Ratio Lower Upper
91 100
126 30.5 12.0 48.2

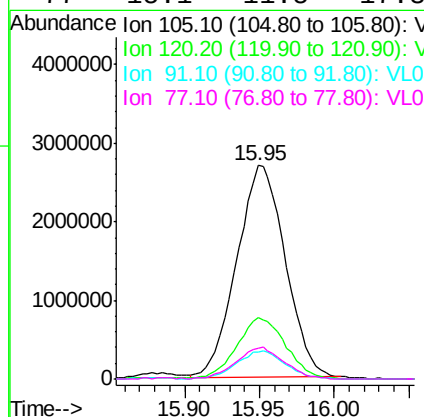
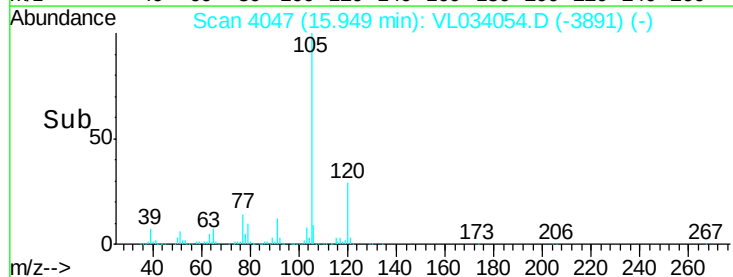
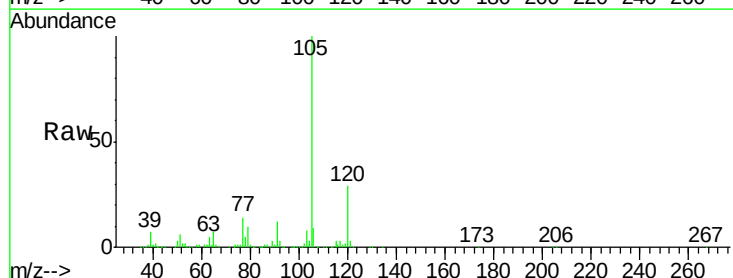
Manual Integrations
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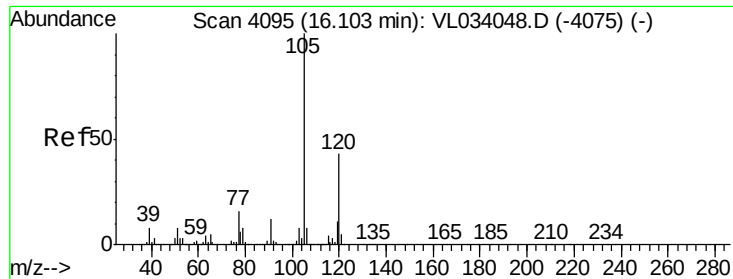
MMdadoda
8/2/2019 9:37:40 AM



#72
4-Ethyltoluene
Concen: 13.194 ppbv
RT: 15.95 min Scan# 4047
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 105 Resp: 6081496
Ion Ratio Lower Upper
105 100
120 30.0 23.0 34.4
91 13.2 10.6 16.0
77 15.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 13.955 ppbv

RT: 16.11 min Scan# 4096

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5932055

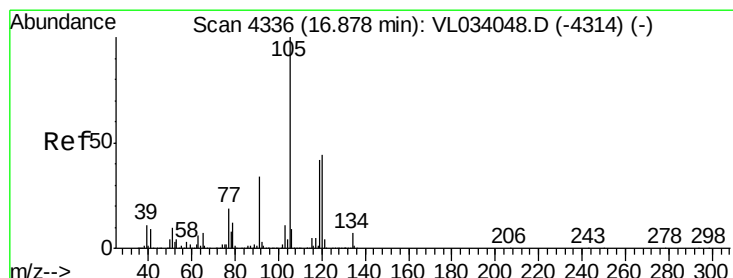
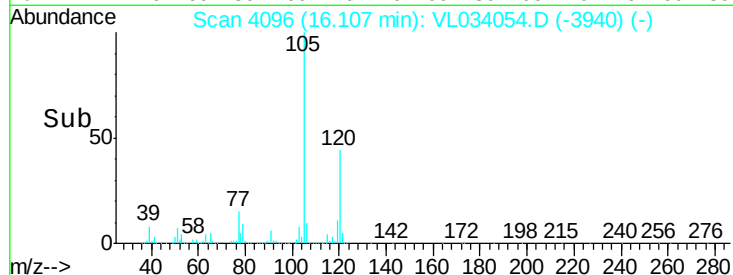
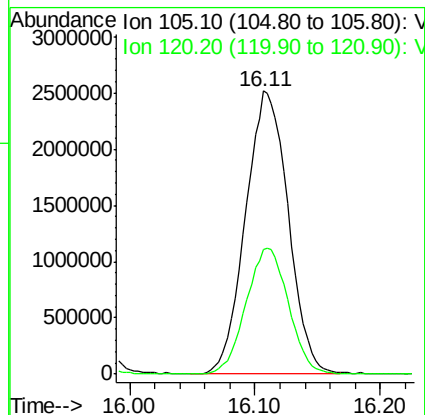
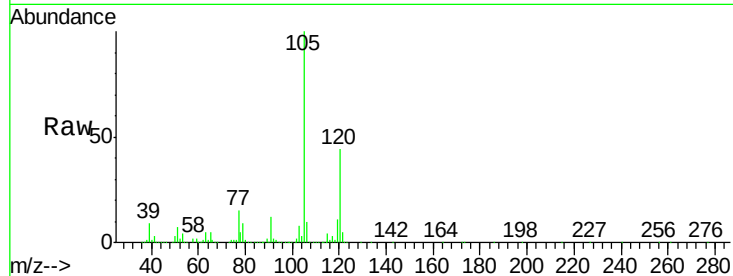
Ion Ratio Lower Upper

105 100

120 43.9 34.7 52.1

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8/2/2019 9:37:40 AM



#74

1,2,4-Trimethylbenzene

Concen: 12.967 ppbv

RT: 16.88 min Scan# 4337

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tgt Ion:105 Resp: 6102831

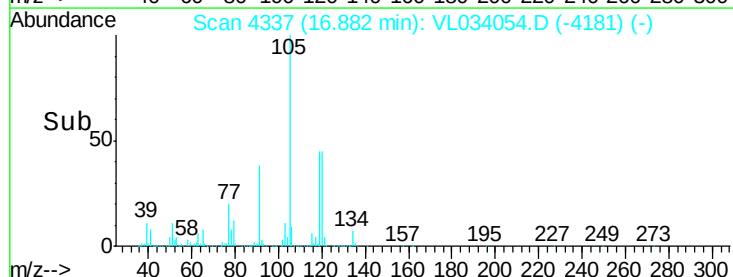
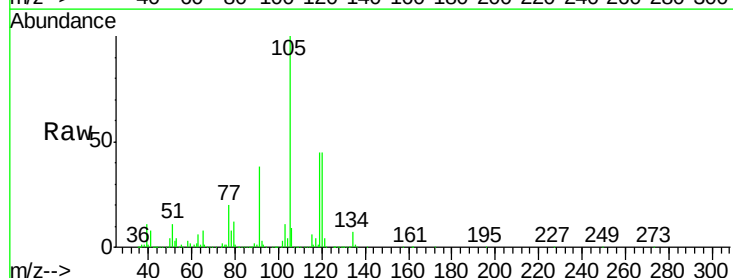
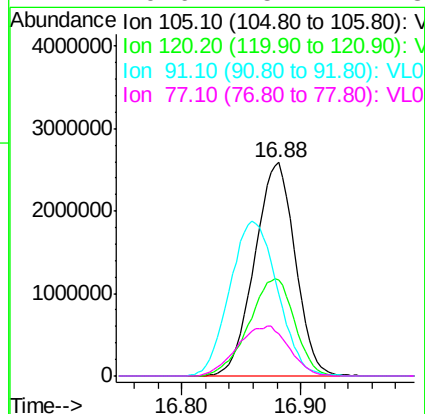
Ion Ratio Lower Upper

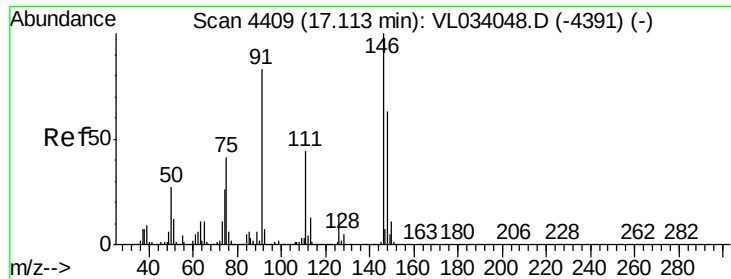
105 100

120 44.8 35.6 53.4

91 38.1 28.0 42.0

77 19.6 15.2 22.8





#75

1,3-Dichlorobenzene

Concen: 12.028 ppbv

RT: 17.12 min Scan# 4410

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3611519

Ion Ratio Lower Upper

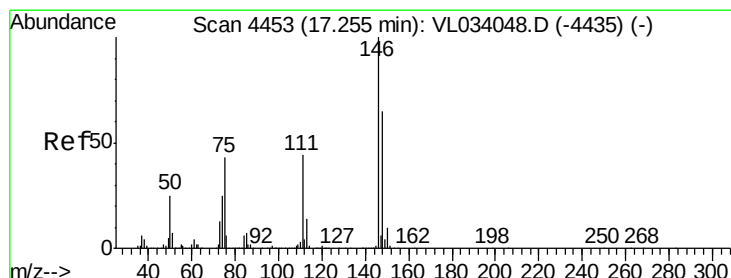
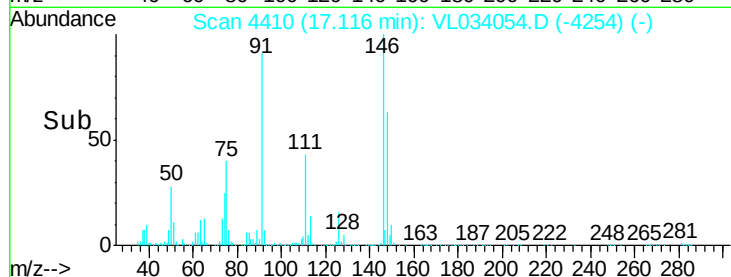
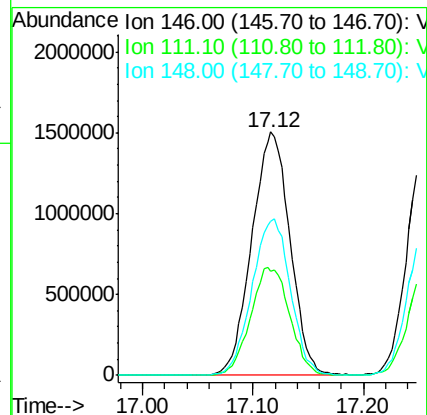
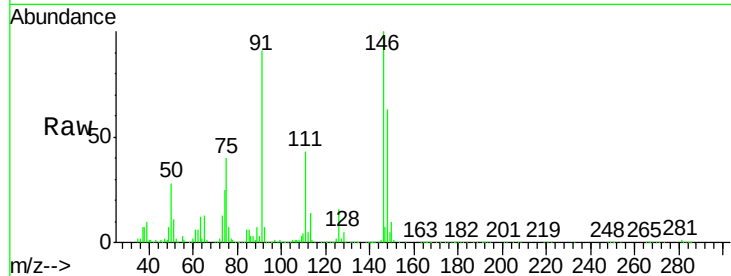
146 100

111 45.3 22.1 66.5

148 64.5 32.0 96.2

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8/2/2019 9:37:40 AM



#76

1,4-Dichlorobenzene

Concen: 12.836 ppbv

RT: 17.26 min Scan# 4454

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

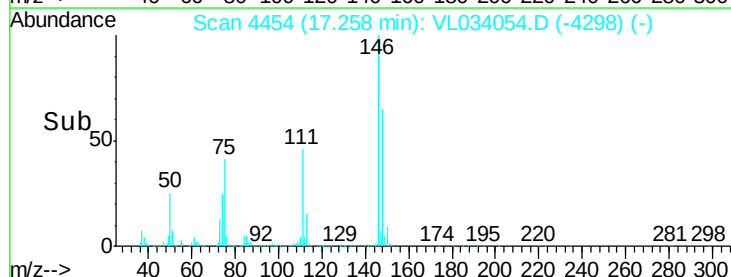
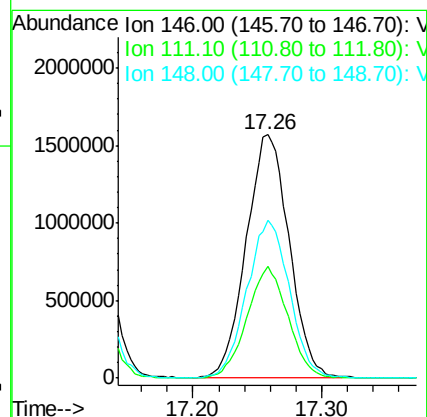
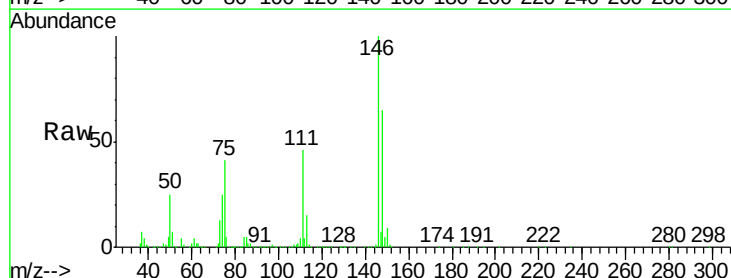
Tgt Ion:146 Resp: 3627451

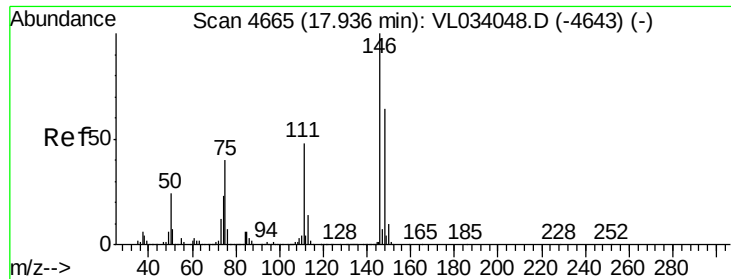
Ion Ratio Lower Upper

146 100

111 43.7 21.8 65.4

148 64.5 32.3 96.9





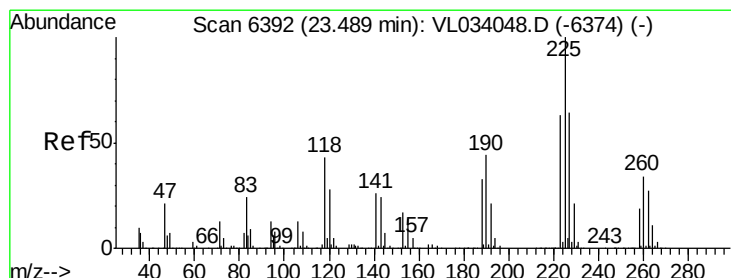
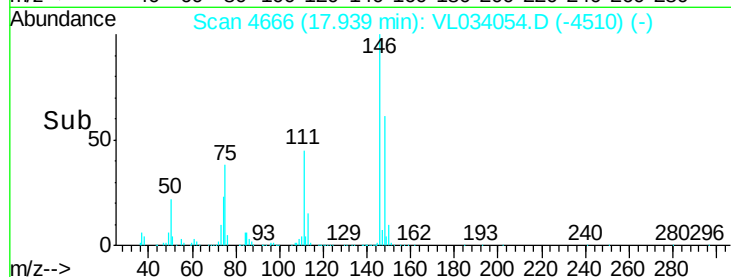
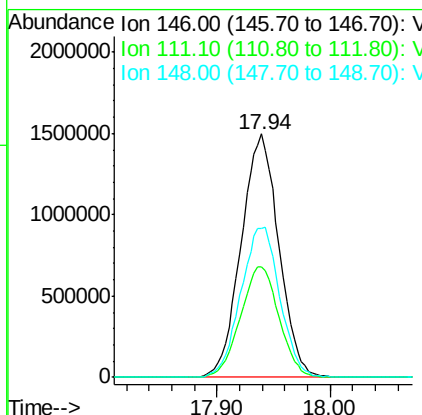
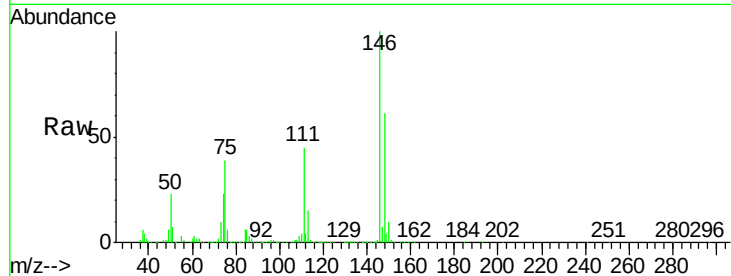
#77
 1,2-Dichlorobenzene
 Concen: 12.510 ppbv
 RT: 17.94 min Scan# 4666
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.4	70.2
148	64.0	32.3	96.9

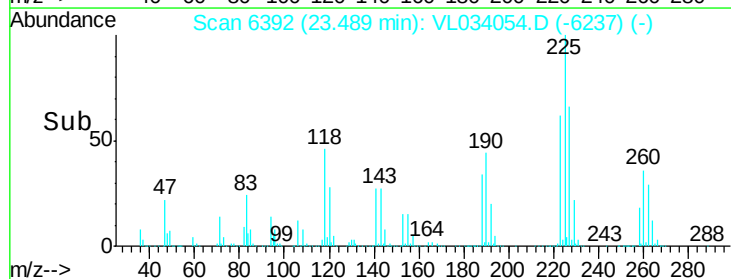
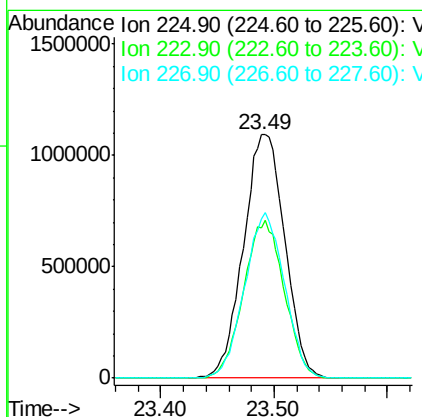
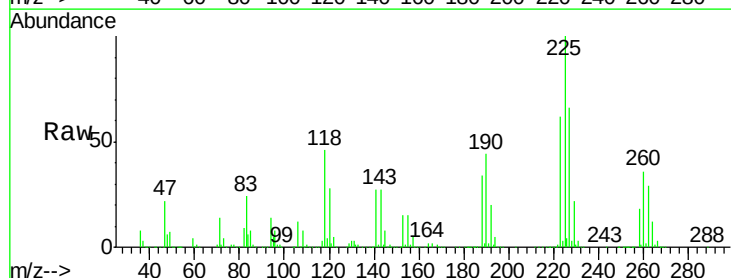
Manual Integrations
 APPROVED

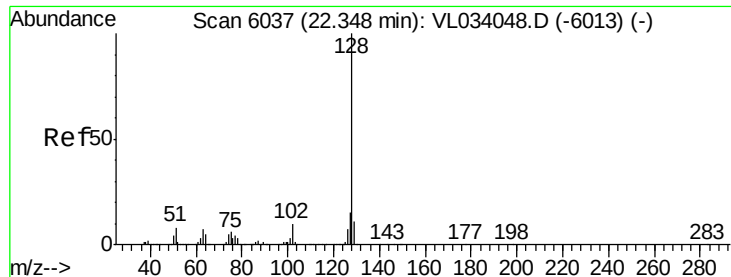
MMdadoda
 8/2/2019 9:37:40 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.490 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	49.6	74.4
227	65.4	51.4	77.2





#79

Naphthalene

Concen: 15.032 ppbv

RT: 22.35 min Scan# 6037

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 5957058

Ion Ratio Lower Upper

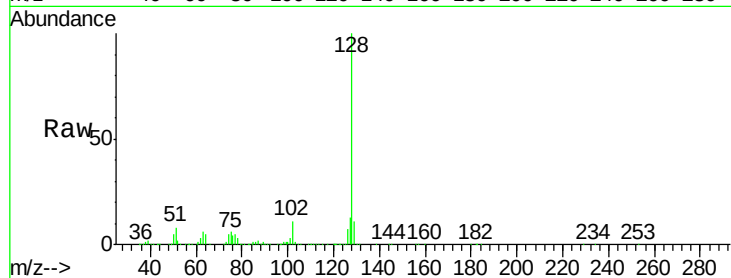
128 100

127 13.4 11.8 17.6

129 10.6 9.1 13.7

Manual Integrations
APPROVED

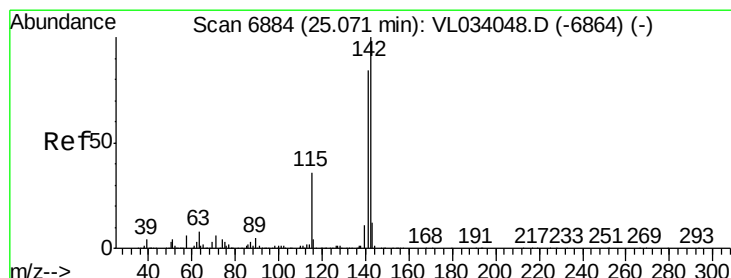
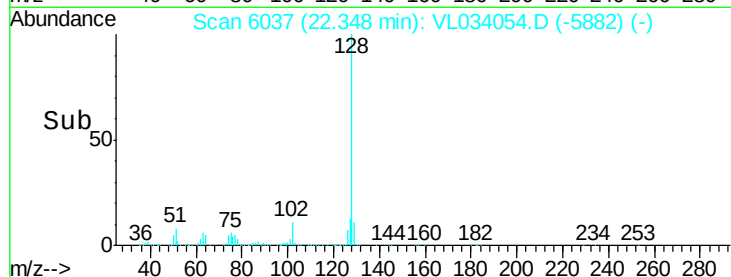
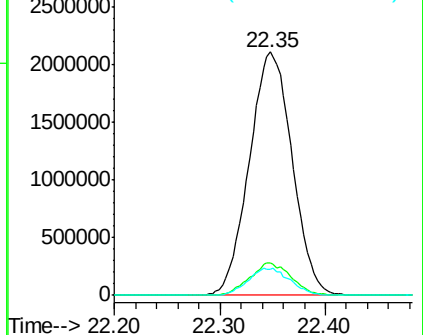
MMdadoda
8/2/2019 9:37:40 AM



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: 13.528 ppbv

RT: 25.07 min Scan# 6884

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

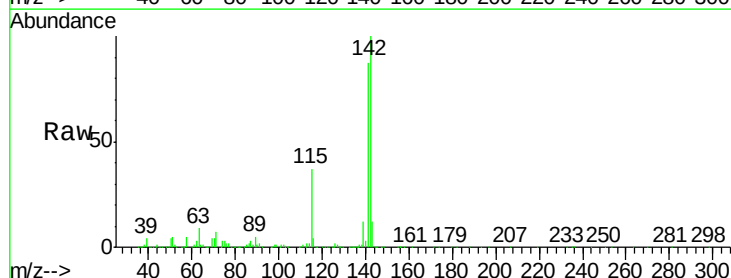
Tgt Ion:142 Resp: 1940750

Ion Ratio Lower Upper

142 100

141 86.6 67.6 101.4

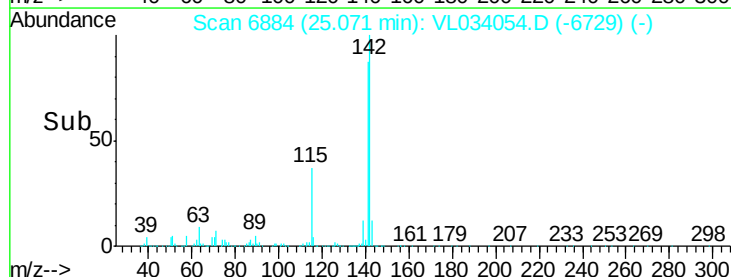
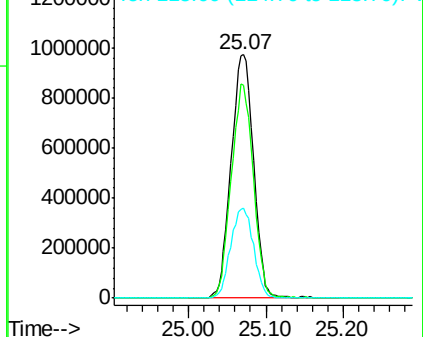
115 37.6 29.8 44.6

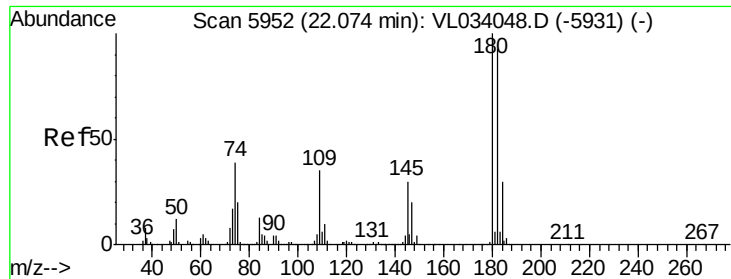


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 13.755 ppbv
 RT: 22.07 min Scan# 5951
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.5	114.7
184	30.9	24.5	36.7

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:40 AM

