

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034067.D
 Acq On : 30 Jul 2019 18:24
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:49 AM

Quant Time: Jul 30 20:58:20 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 2019
 QLast Update : Tue Jul 30 06:55:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1385029	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4673654	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	3393742m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2575031	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	2043042	7.679 ppbv	97
3) Chlorodifluoromethane	2.99	51	1441064	9.014 ppbv	95
4) Chloromethane	3.14	50	766548	8.174 ppbv	97
5) Vinyl Chloride	3.26	62	817914	7.915 ppbv	99
6) Bromomethane	3.49	94	507154	7.796 ppbv	99
7) Chloroethane	3.57	64	307833	7.351 ppbv	92
8) Dichlorotetrafluoroethane	3.19	85	2025876	7.645 ppbv	99
9) Propene	3.01	41	595560	10.376 ppbv	99
10) Heptane	8.20	43	1662402	10.619 ppbv	96
11) Trichlorofluoromethane	3.97	101	2018659	6.823 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1460784	7.340 ppbv	97
13) Ethanol	3.62	45	174946	7.658 ppbv	98
14) Bromoethene	3.76	108	644872	7.673 ppbv	99
15) Acetone	3.87	43	1444511	6.860 ppbv	98
16) 1,3-Butadiene	3.33	39	843614	10.317 ppbv	98
17) tert-Butyl alcohol	4.32	59	1487635	8.592 ppbv	99
18) 1,1-Dichloroethene	4.32	96	687012	7.620 ppbv	98
19) Isopropyl Alcohol	3.99	45	1218020	8.470 ppbv	# 99
20) Methylene Chloride	4.37	84	579281	7.193 ppbv	96
21) Allyl Chloride	4.44	41	1065719	8.019 ppbv	96
22) trans-1,2-Dichloroethene	4.92	96	675697	7.234 ppbv	94
23) Vinyl Acetate	5.12	43	2223204	9.859 ppbv	99
24) 1,1-Dichloroethane	5.05	63	1646594	8.220 ppbv	99
25) Ethyl Acetate	5.73	43	3076032	9.826 ppbv	99
26) Hexane	5.74	57	1410079	9.959 ppbv	99
27) Carbon Disulfide	4.58	76	1701714	7.718 ppbv	100
28) Methyl tert-Butyl Ether	5.07	73	2202596	9.140 ppbv	99
29) Chloroform	5.81	83	2234642	8.641 ppbv	99
30) Cyclohexane	7.20	84	1584002	11.010 ppbv	96
31) cis-1,2-Dichloroethene	5.60	61	1408818	10.209 ppbv	97
32) 1,1,1-Trichloroethane	6.58	97	2162714	7.968 ppbv	99
34) 2-Butanone	5.29	43	1736397	9.028 ppbv	98
35) Carbon Tetrachloride	7.09	117	3026282	9.175 ppbv	97
36) Benzene	6.96	78	2862715	9.201 ppbv	97
37) 1,2-Dichloroethane	6.37	62	1627391	7.612 ppbv	97
38) Trichloroethene	7.91	130	1142830	8.765 ppbv	98
39) 1,2-Dichloropropane	7.69	63	1056720	8.370 ppbv	98
40) 1,4-Dioxane	7.91	88	442783	8.881 ppbv	100
41) Tetrahydrofuran	6.11	42	1060214	10.852 ppbv	97
42) Bromodichloromethane	7.87	83	2458604	8.317 ppbv	99
43) Methyl Methacrylate	8.09	69	1140888	10.288 ppbv	100

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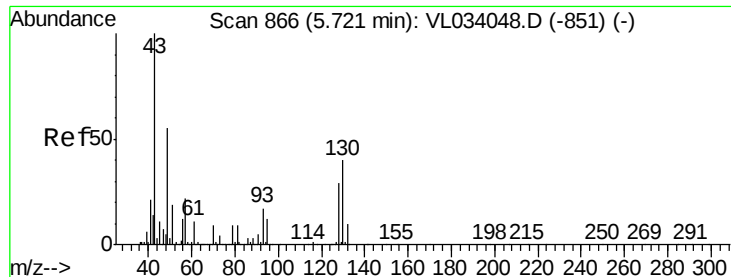
Manual Integrations
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 8/2/2019 9:37:49 AM

Quant Time: Jul 30 20:58:20 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 06:55:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	4795015	9.283	ppbv	98
45) t-1,3-Dichloropropene	9.37	75	1404826	9.846	ppbv	92
46) cis-1,3-Dichloropropene	8.79	75	1648469	10.280	ppbv	99
47) 1,1,2-Trichloroethane	9.57	97	1205266	9.177	ppbv	95
48) Dibromochloromethane	10.40	129	2046869	8.163	ppbv	97
49) Bromoform	13.15	173	1780935	8.147	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	2851098	9.984	ppbv	99
51) 2-Hexanone	10.22	43	2341445	9.860	ppbv #	99
52) Tetrachloroethene	11.32	164	1094108	8.968	ppbv	96
53) Toluene	9.90	91	3393409	10.454	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1860011	9.542	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.23	131	1360959	8.974	ppbv	97
57) Chlorobenzene	12.25	112	2382077	9.060	ppbv	98
58) Ethyl Benzene	12.81	91	4341380	10.809	ppbv	100
59) m/p-Xylene	13.10	91	7028291m	19.250	ppbv	
60) o-Xylene	13.80	91	3479200	9.588	ppbv	99
61) Styrene	13.63	104	2571708	10.732	ppbv	98
62) Isopropylbenzene	14.77	105	4775046	9.822	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2478512	8.900	ppbv	100
64) n-propylbenzene	15.67	120	1229254	9.764	ppbv	99
65) tert-Butylbenzene	16.86	119	4215989	9.407	ppbv	100
66) Benzyl Chloride	17.10	91	1901713	8.456	ppbv	99
67) sec-Butylbenzene	17.41	105	6047034	9.492	ppbv	100
69) p-Isopropyltoluene	17.77	119	4964471	9.561	ppbv	100
70) n-Butylbenzene	18.66	91	5273272	9.594	ppbv	100
71) 2-Chlorotoluene	15.56	91	3685245	10.441	ppbv	99
72) 4-Ethyltoluene	15.95	105	4111576	10.020	ppbv	99
73) 1,3,5-Trimethylbenzene	16.11	105	3927999	9.406	ppbv	96
74) 1,2,4-Trimethylbenzene	16.87	105	4031640	8.788	ppbv #	87
75) 1,3-Dichlorobenzene	17.11	146	2336821	8.165	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	2327766	8.617	ppbv	100
77) 1,2-Dichlorobenzene	17.93	146	2331471	8.848	ppbv	98
78) Hexachloro-1,3-Butadiene	23.50	225	2013230	8.305	ppbv	100
79) Naphthalene	22.34	128	3632009	9.083	ppbv	98
80) Naphthalene, 2-methyl-	25.07	142	1162876	8.340	ppbv	98
81) 1,2,4-Trichlorobenzene	22.07	180	2090722	8.110	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1385029

Ion Ratio Lower Upper

49 100

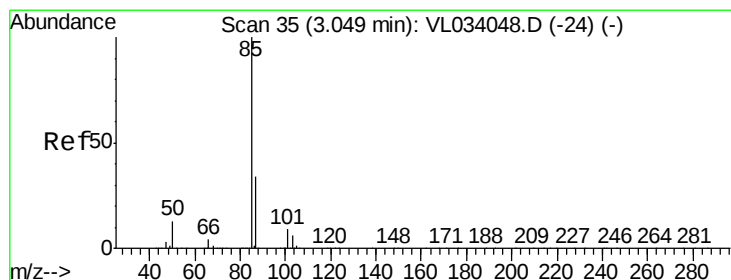
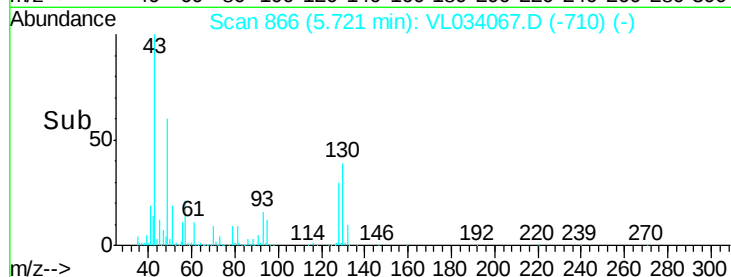
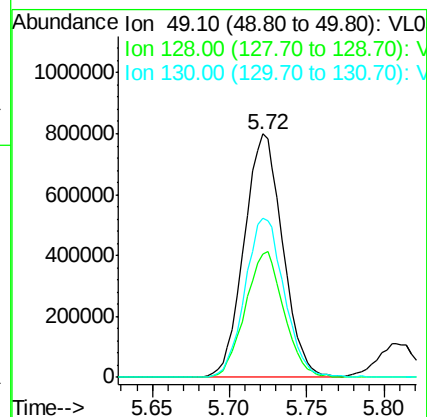
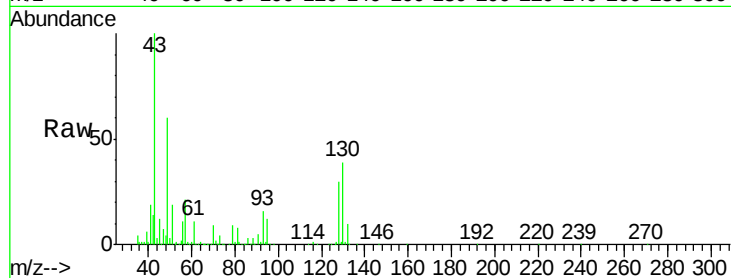
128 51.8 27.0 81.0

130 66.7 35.0 105.0

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#2

Dichlorodifluoromethane

Concen: 7.679 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL034067.D

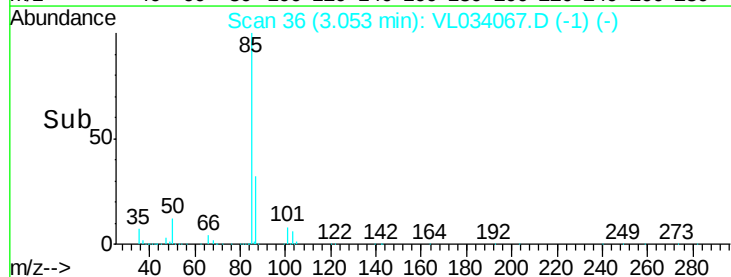
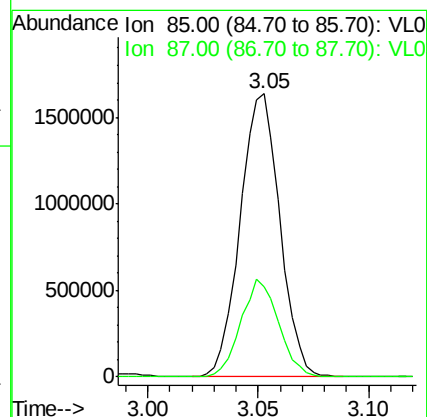
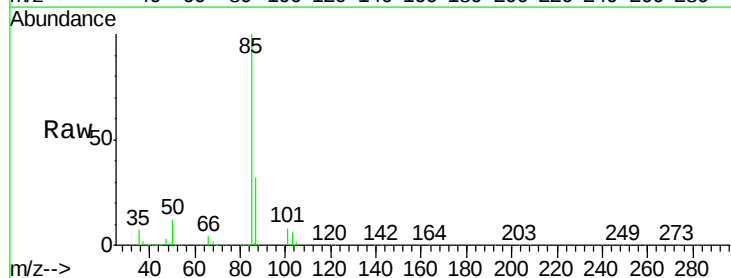
Acq: 30 Jul 2019 18:24

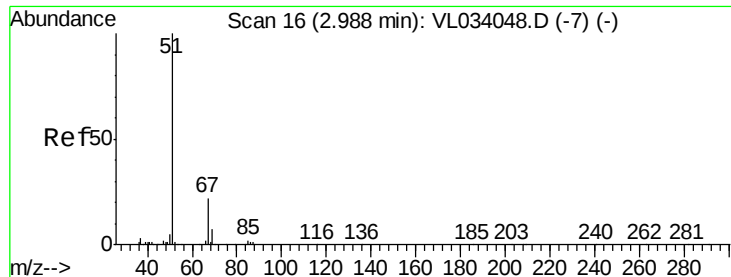
Tgt Ion: 85 Resp: 2043042

Ion Ratio Lower Upper

85 100

87 32.0 27.0 40.4





#3

Chlorodifluoromethane

Concen: 9.014 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1441064

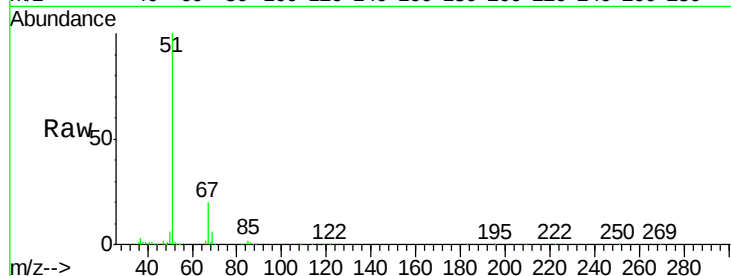
Ion Ratio Lower Upper

51 100

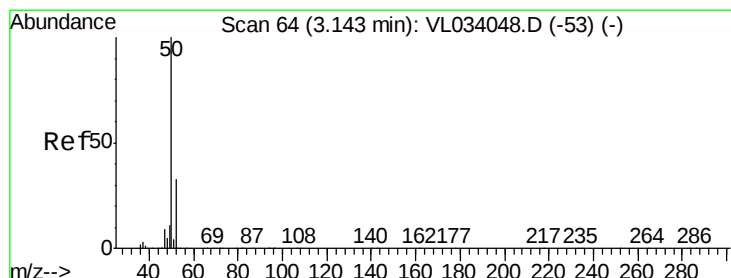
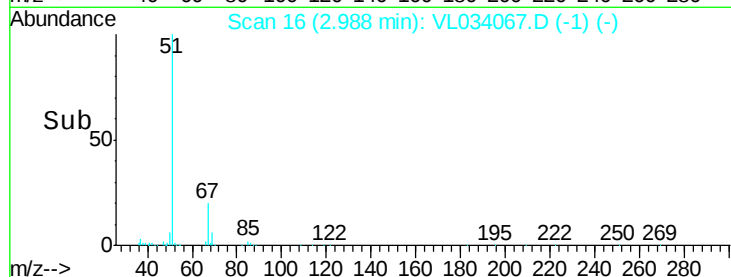
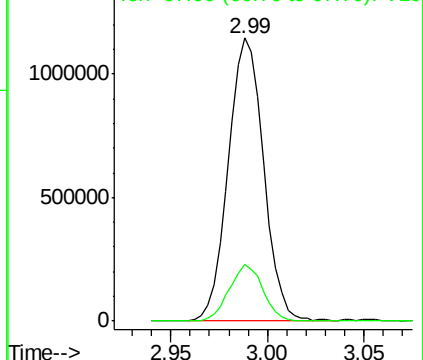
67 19.5 17.4 26.0

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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: 8.174 ppbv

RT: 3.14 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL034067.D

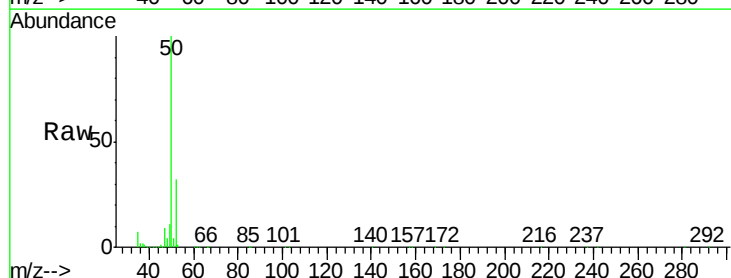
Acq: 30 Jul 2019 18:24

Tgt Ion: 50 Resp: 766548

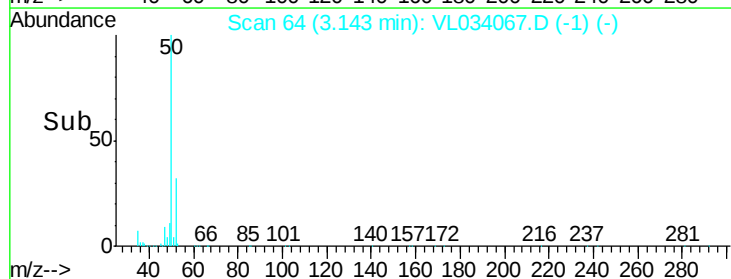
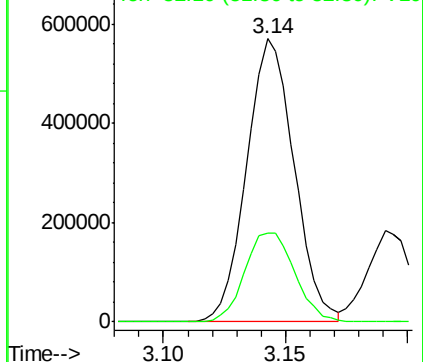
Ion Ratio Lower Upper

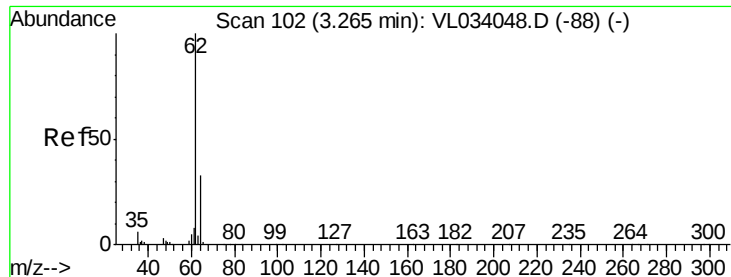
50 100

52 31.6 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: 7.915 ppbv

RT: 3.26 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 817914

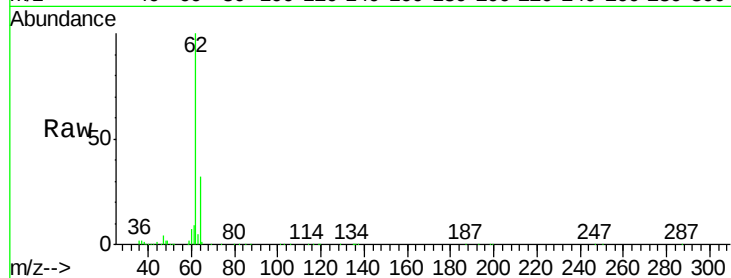
Ion Ratio Lower Upper

62 100

64 32.4 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

3.26

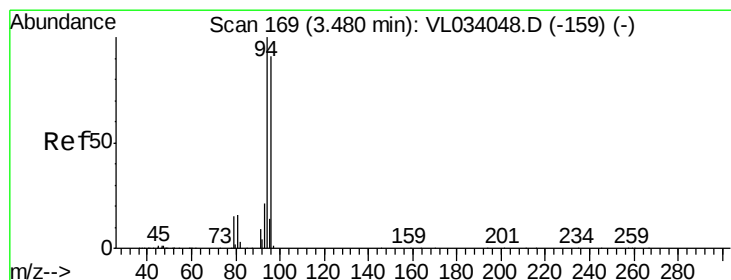
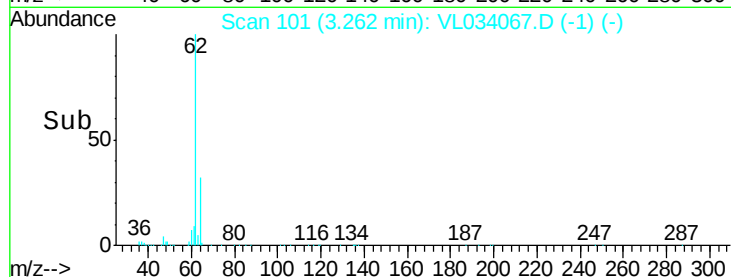
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 7.796 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034067.D

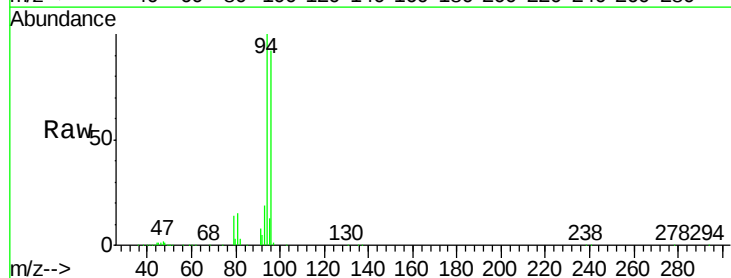
Acq: 30 Jul 2019 18:24

Tgt Ion: 94 Resp: 507154

Ion Ratio Lower Upper

94 100

96 91.5 72.6 108.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.49

400000

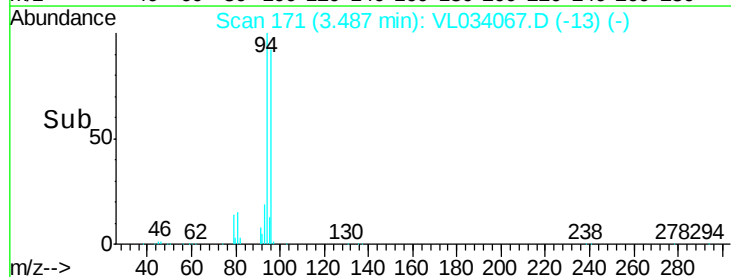
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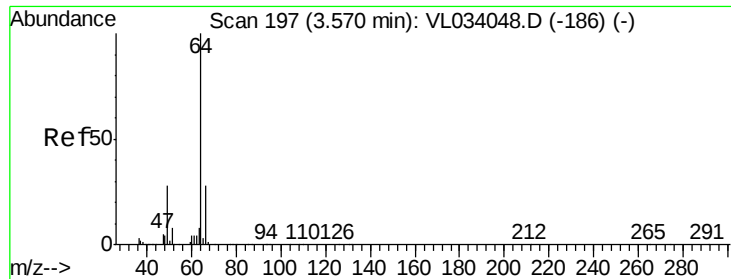
200000

100000

0

Time-->





#7

Chloroethane

Concen: 7.351 ppbv

RT: 3.57 min Scan# 197

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 307833

Ion Ratio Lower Upper

64 100

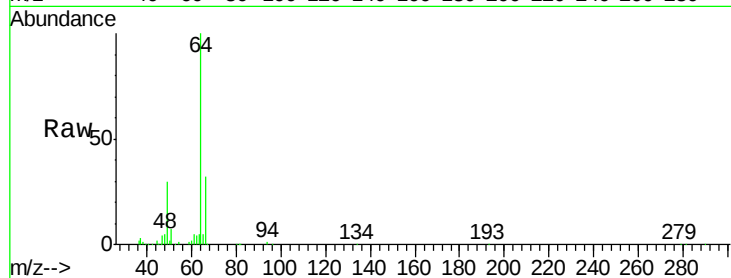
66 31.9 22.0 33.0

Manual Integrations

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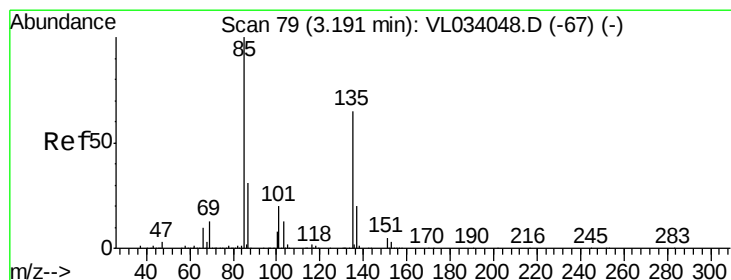
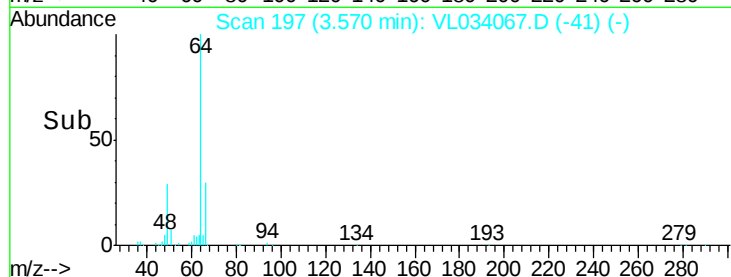
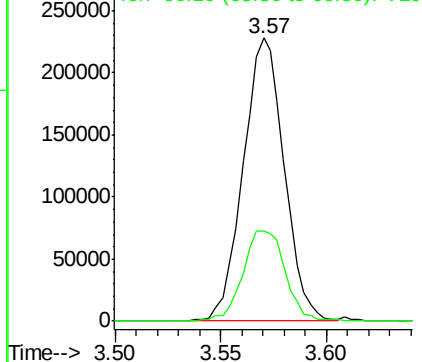
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 7.645 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034067.D

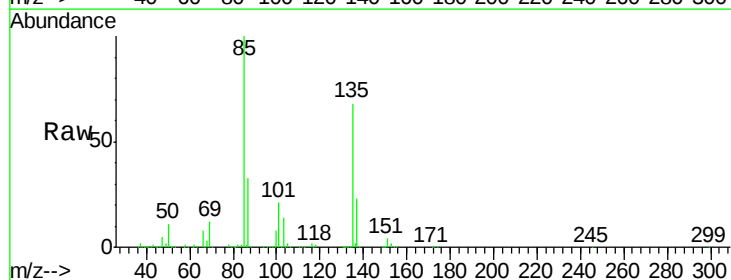
Acq: 30 Jul 2019 18:24

Tgt Ion: 85 Resp: 2025876

Ion Ratio Lower Upper

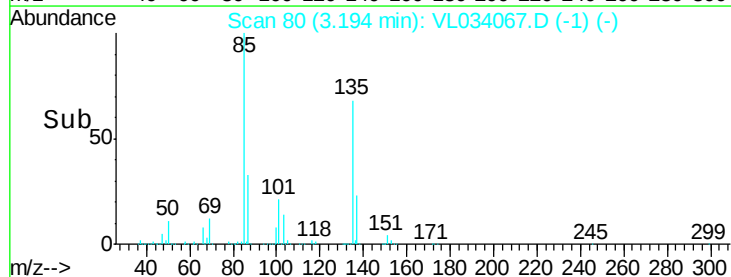
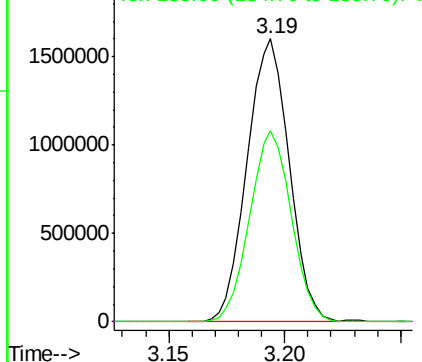
85 100

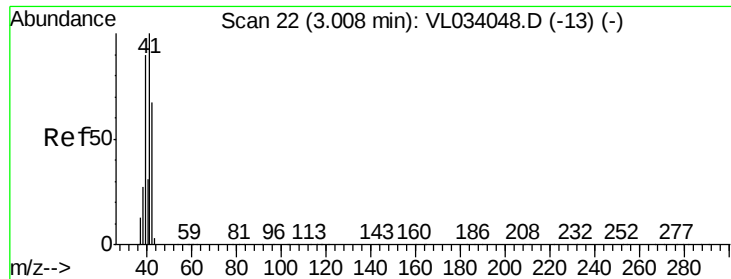
135 66.9 54.1 81.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.376 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 595560

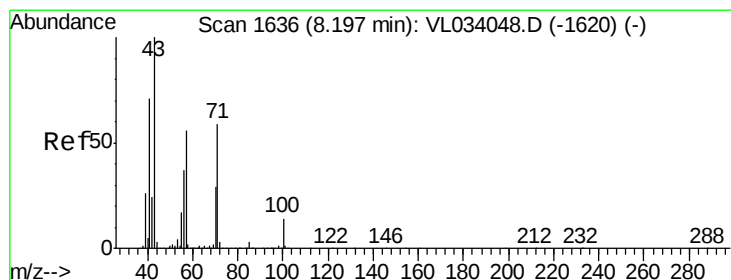
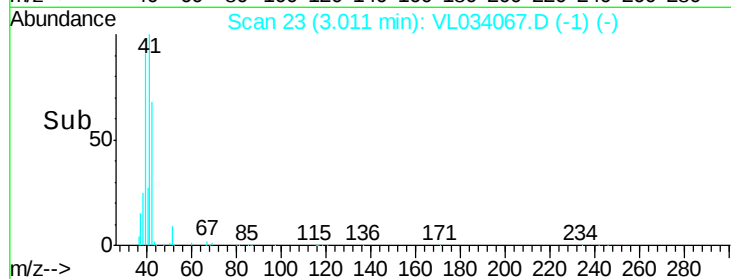
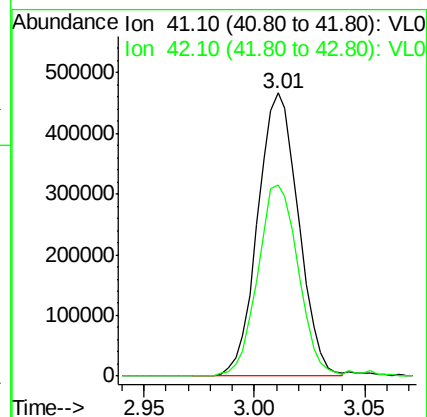
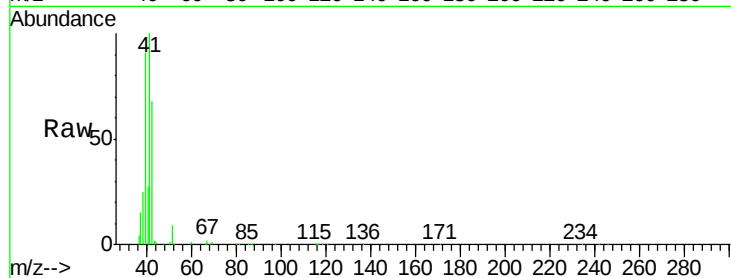
Ion Ratio Lower Upper

41 100

42 68.9 55.4 83.2

Manual Integrations
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#10

Heptane

Concen: 10.619 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VL034067.D

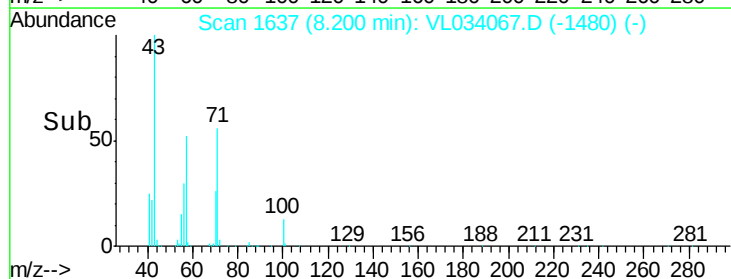
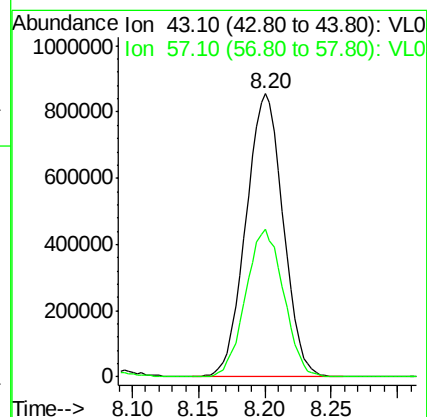
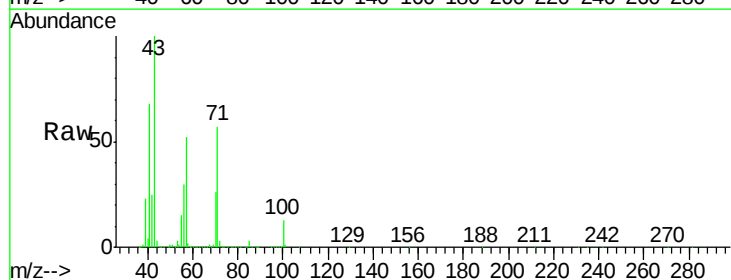
Acq: 30 Jul 2019 18:24

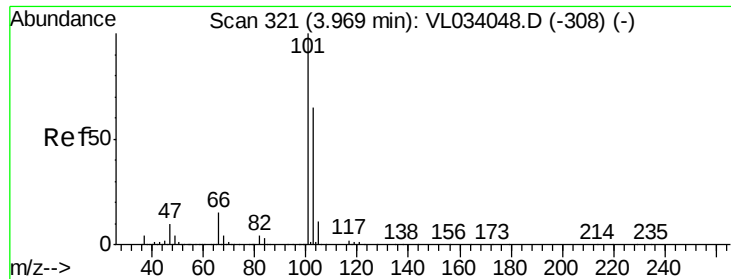
Tgt Ion: 43 Resp: 1662402

Ion Ratio Lower Upper

43 100

57 52.9 44.8 67.2





#11

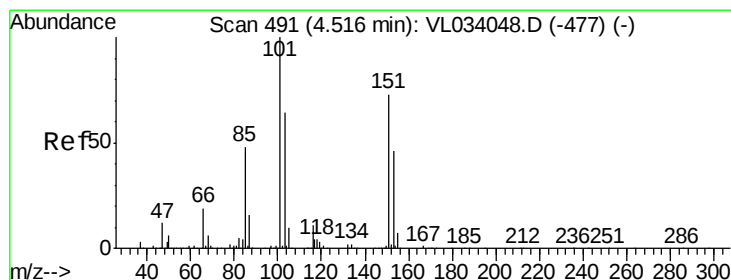
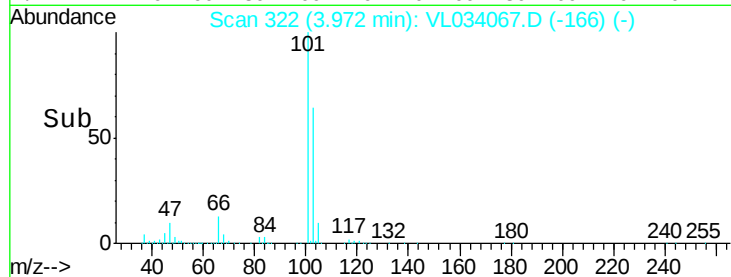
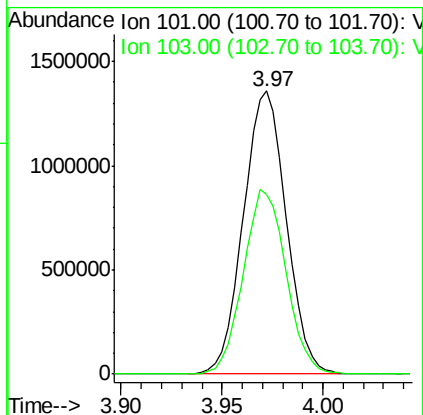
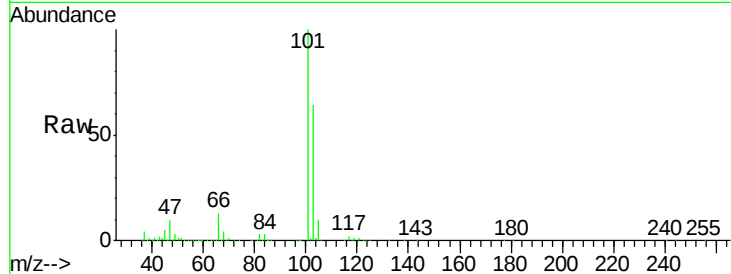
Trichlorofluoromethane
 Concen: 6.823 ppbv
 RT: 3.97 min Scan# 322
 Delta R.T. 0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2018659
 Ion Ratio Lower Upper
 101 100
 103 63.6 52.3 78.5

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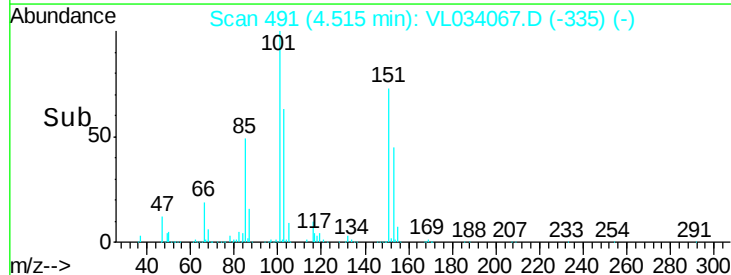
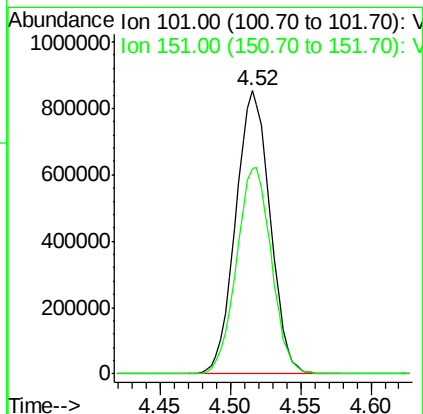
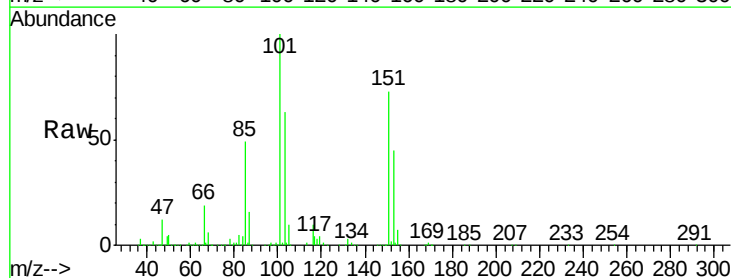
MMdadoda
 8/2/2019 9:37:49 AM

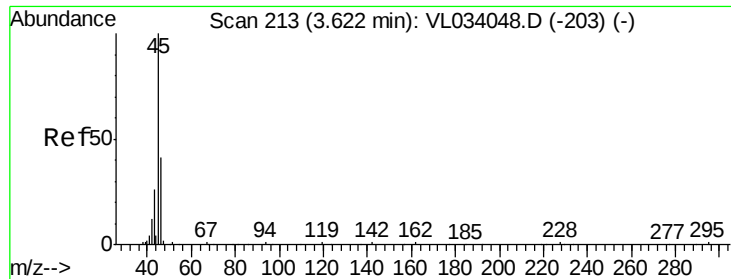


#12

1,1,2-Trichlorotrifluoroethane
 Concen: 7.340 ppbv
 RT: 4.52 min Scan# 491
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Tgt Ion:101 Resp: 1460784
 Ion Ratio Lower Upper
 101 100
 151 73.8 57.3 85.9





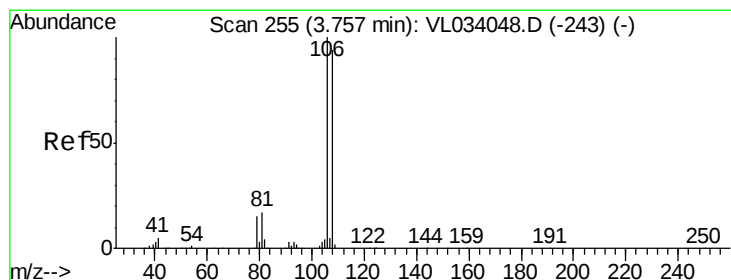
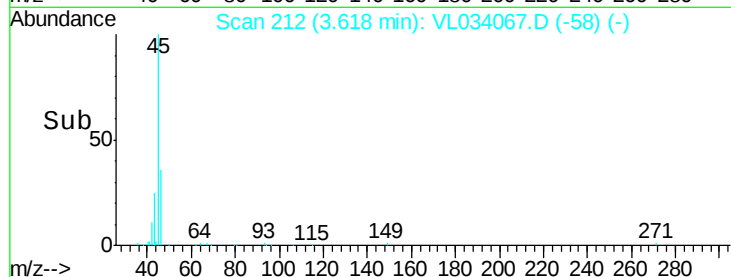
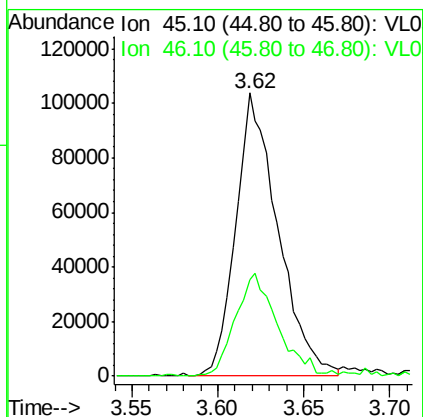
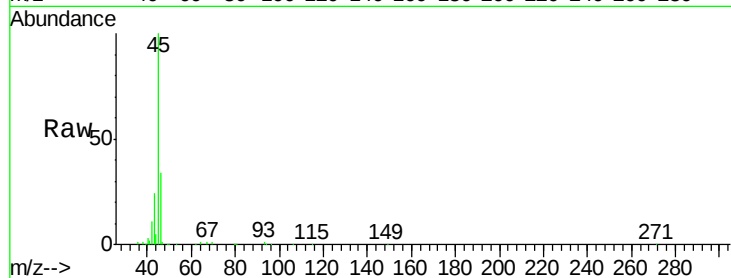
#13
Ethanol
Concen: 7.658 ppbv
RT: 3.62 min Scan# 212
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	174946
Ion Ratio	100	Lower	Upper
46	37.6	15.6	62.2

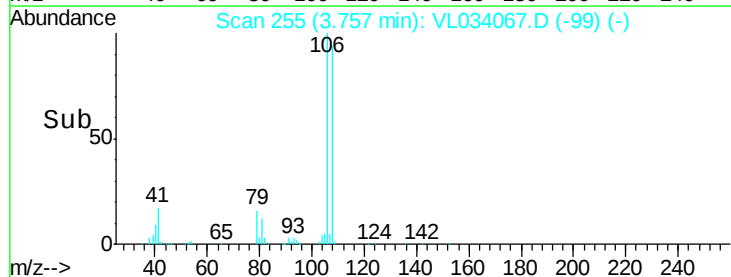
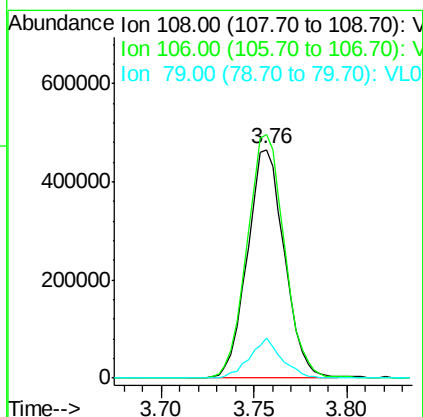
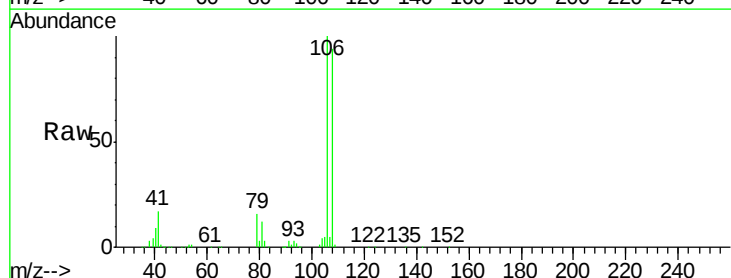
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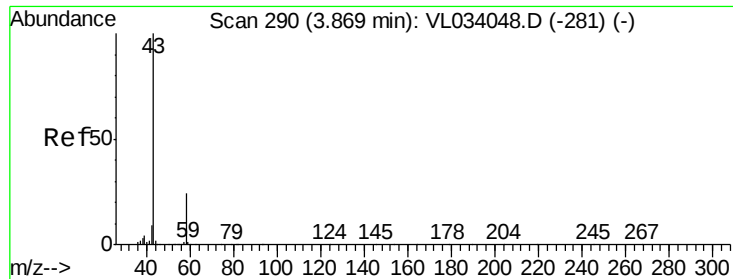
MMdadoda
8/2/2019 9:37:49 AM



#14
Bromoethene
Concen: 7.673 ppbv
RT: 3.76 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion	108	Resp	644872
Ion Ratio	100	Lower	Upper
106	108.2	86.2	129.2
79	15.4	13.7	20.5





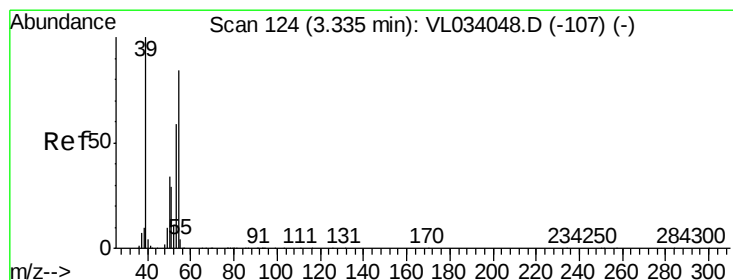
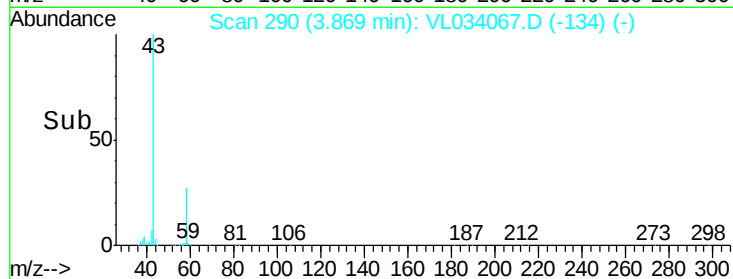
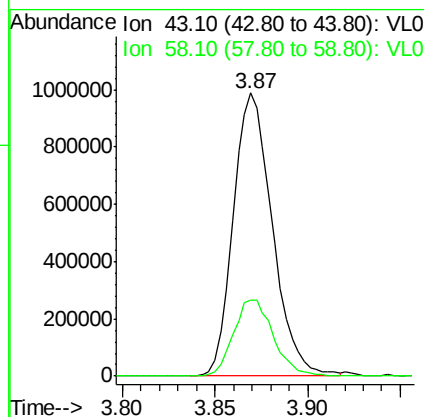
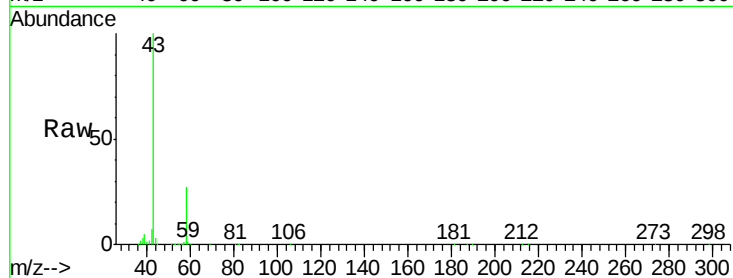
#15
Acetone
Concen: 6.860 ppbv
RT: 3.87 min Scan# 290
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1444511
Ion Ratio Lower Upper
43 100
58 27.8 21.6 32.4

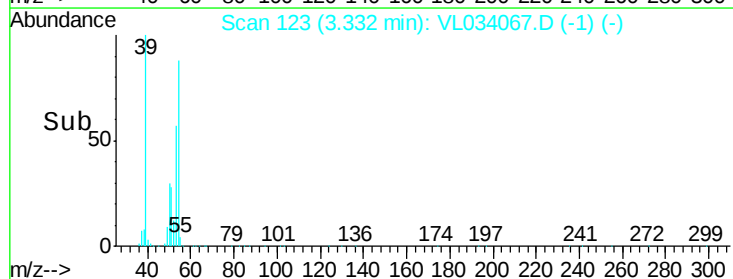
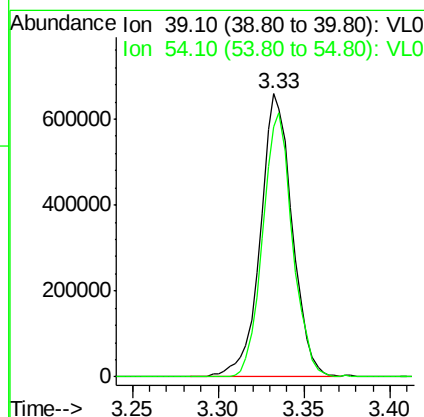
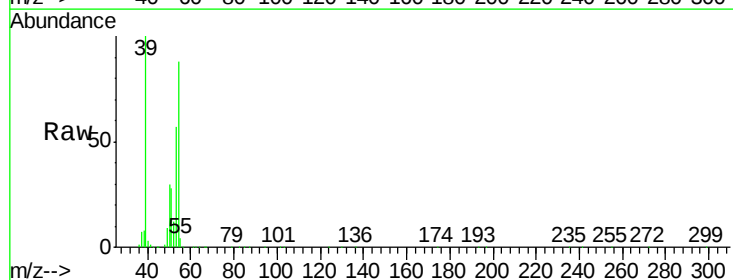
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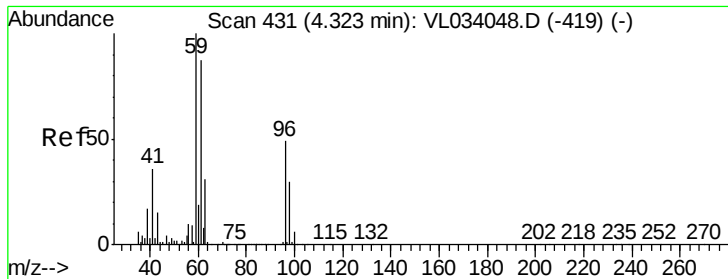
MMdadoda
8/2/2019 9:37:49 AM



#16
1,3-Butadiene
Concen: 10.317 ppbv
RT: 3.33 min Scan# 123
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion: 39 Resp: 843614
Ion Ratio Lower Upper
39 100
54 87.7 68.9 103.3





#17

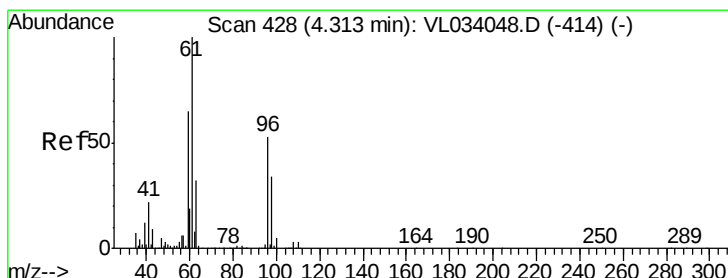
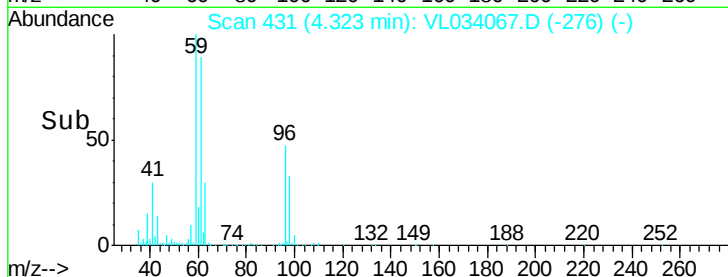
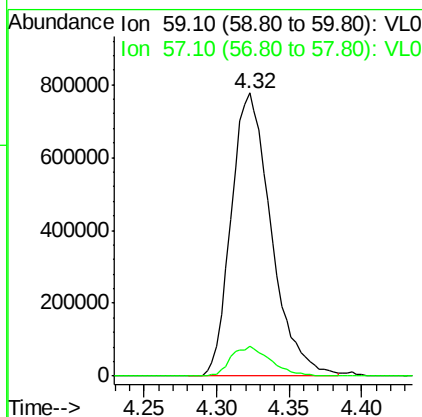
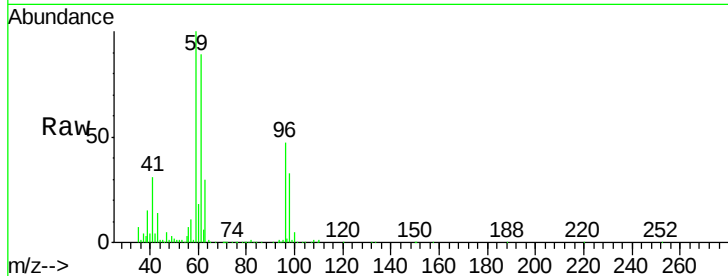
tert-Butyl alcohol
Concen: 8.592 ppbv
RT: 4.32 min Scan# 431
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1487635
Ion Ratio Lower Upper
59 100
57 10.5 8.2 12.4

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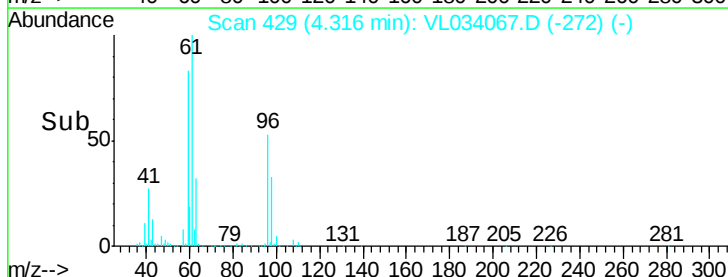
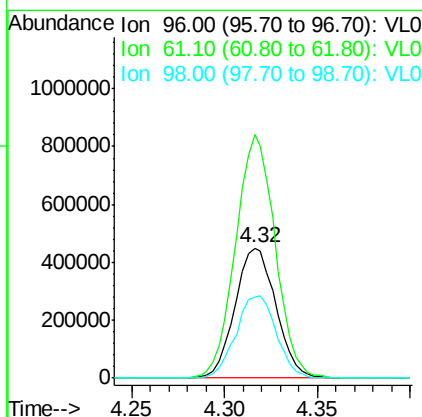
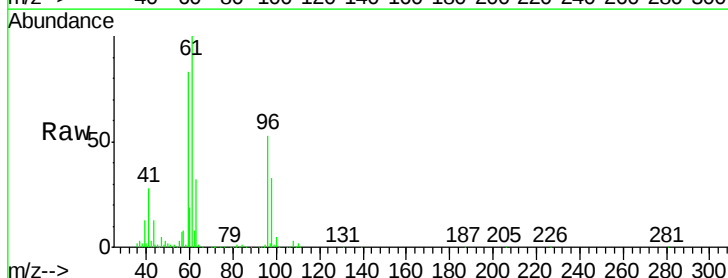
MMdadoda
8/2/2019 9:37:49 AM

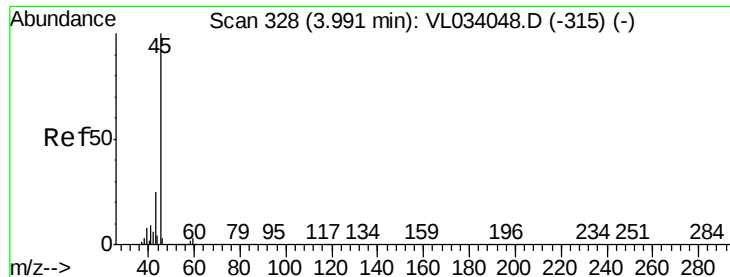


#18

1,1-Dichloroethene
Concen: 7.620 ppbv
RT: 4.32 min Scan# 429
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion: 96 Resp: 687012
Ion Ratio Lower Upper
96 100
61 187.3 151.5 227.3
98 62.5 52.2 78.2





#19

Isopropyl Alcohol

Concen: 8.470 ppbv

RT: 3.99 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1218020

Ion Ratio Lower Upper

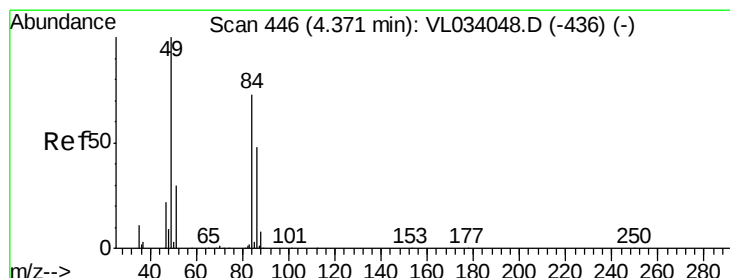
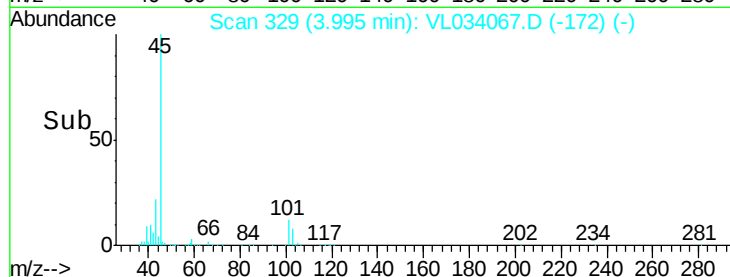
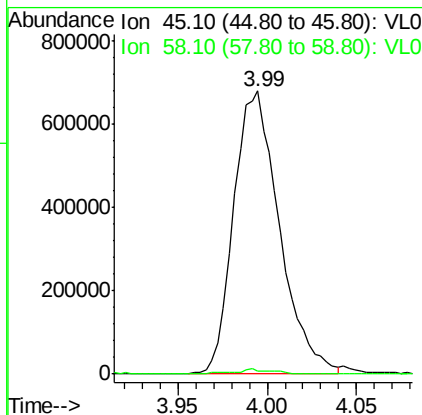
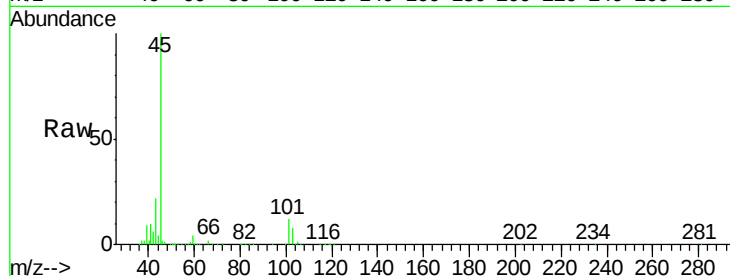
45 100

58 1.7 1.8 2.6#

Manual Integrations
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#20

Methylene Chloride

Concen: 7.193 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Tgt Ion: 84 Resp: 579281

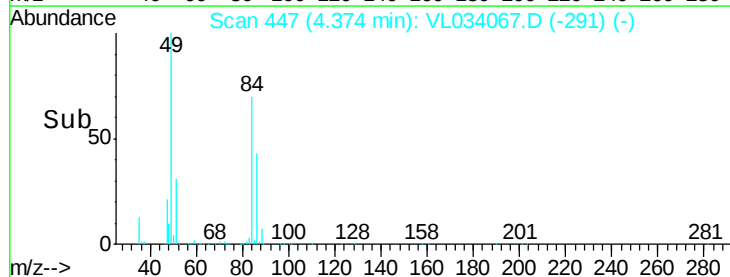
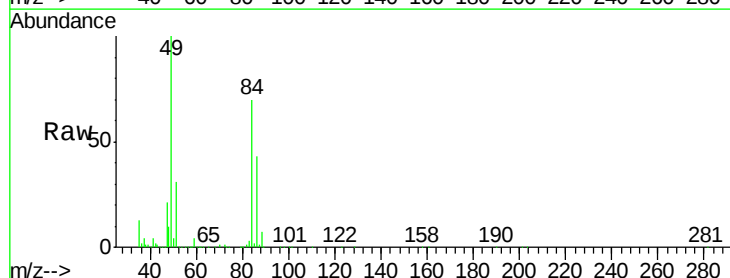
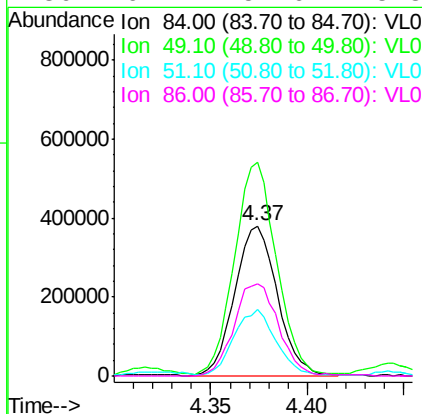
Ion Ratio Lower Upper

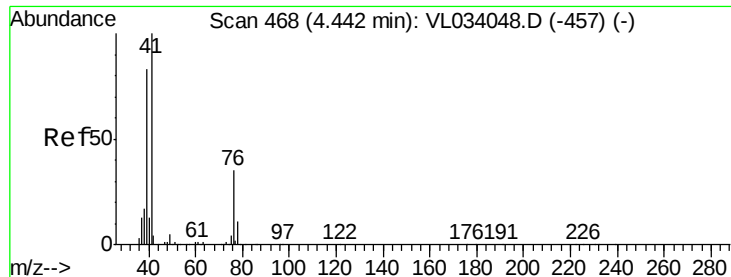
84 100

49 141.1 109.6 164.4

51 44.2 33.4 50.2

86 61.2 52.6 78.8





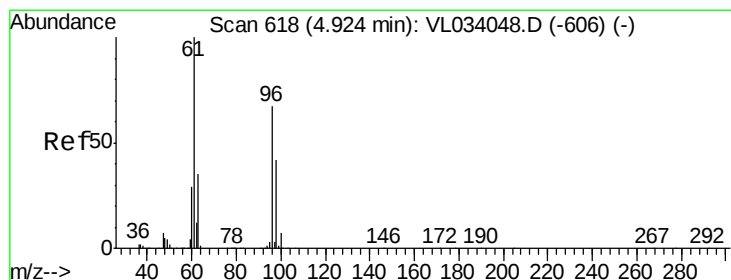
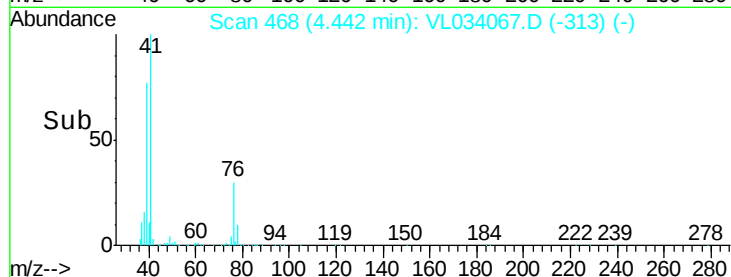
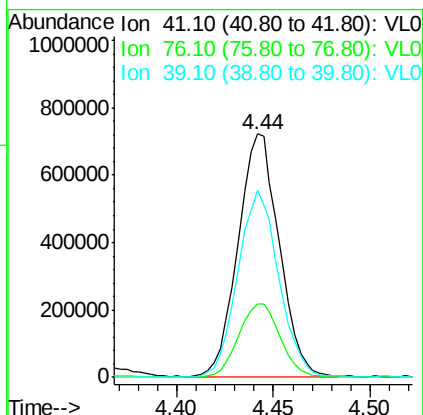
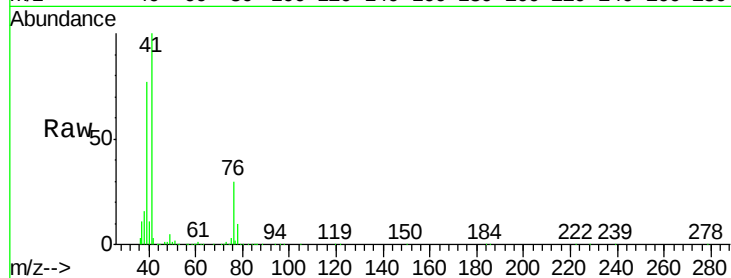
#21
Allvl Chloride
Concen: 8.019 ppbv
RT: 4.44 min Scan# 468
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.8	26.1	39.1
39	77.5	65.0	97.6

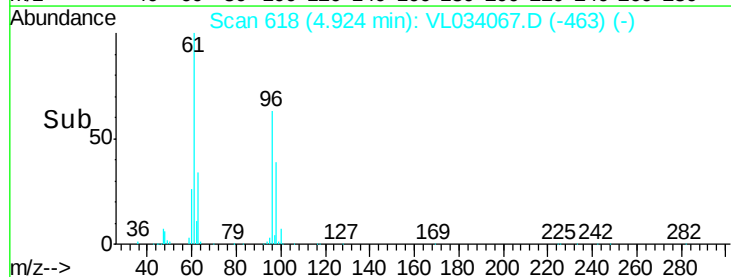
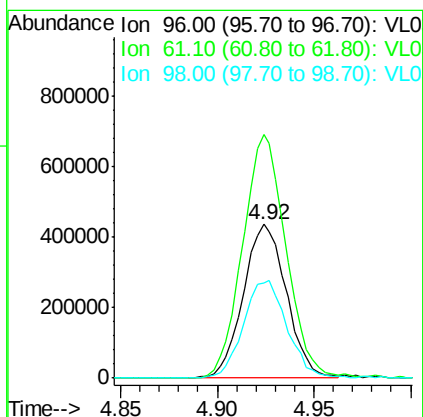
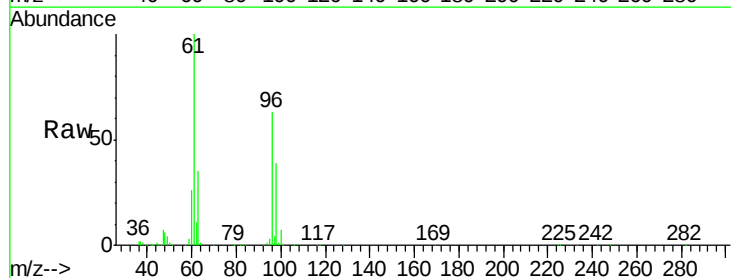
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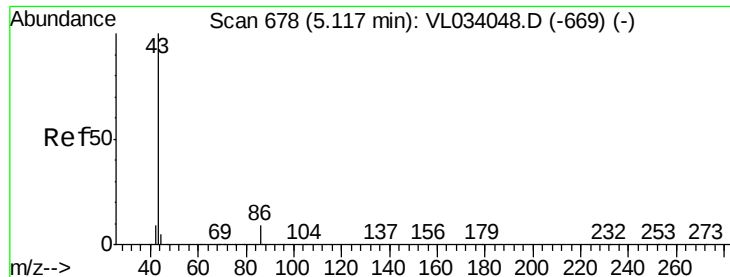
MMDadoda
8/2/2019 9:37:49 AM



#22
trans-1,2-Dichloroethene
Concen: 7.234 ppbv
RT: 4.92 min Scan# 618
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.0	118.6	177.8
98	61.5	49.7	74.5





#23

Vinyl Acetate

Concen: 9.859 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2223204

Ion Ratio Lower Upper

43 100

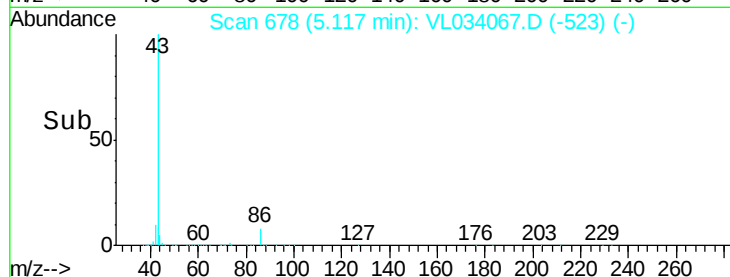
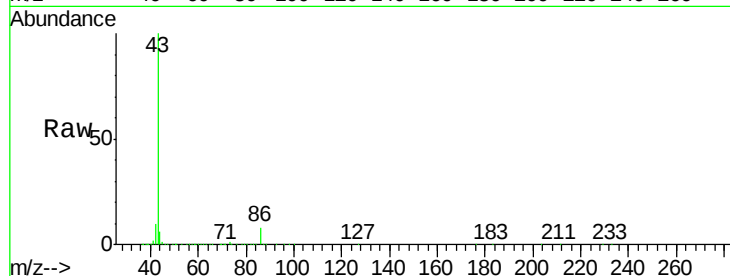
86 7.8 6.5 9.7

42 9.7 8.3 12.5

44 5.5 4.0 6.0

Manual Integrations
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8/2/2019 9:37:49 AM

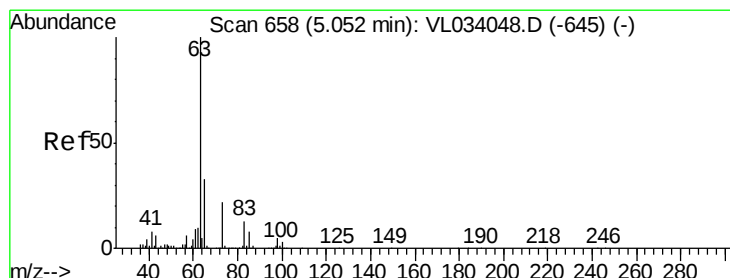
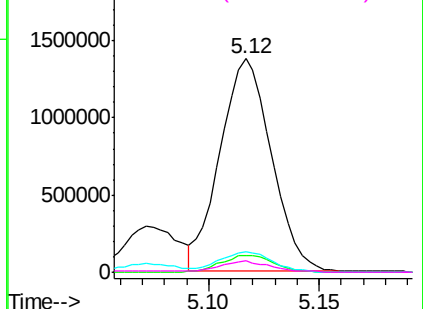


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.220 ppbv

RT: 5.05 min Scan# 658

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

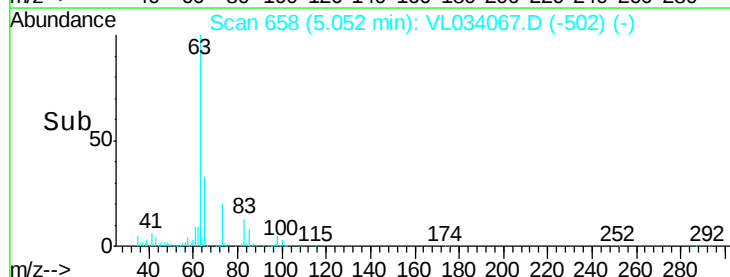
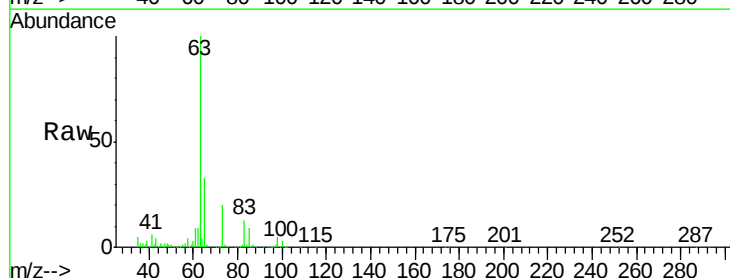
Tgt Ion: 63 Resp: 1646594

Ion Ratio Lower Upper

63 100

98 4.5 2.4 7.2

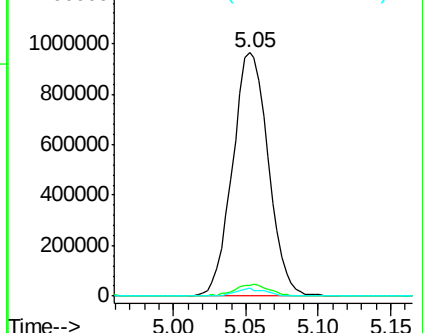
100 3.2 1.3 3.9

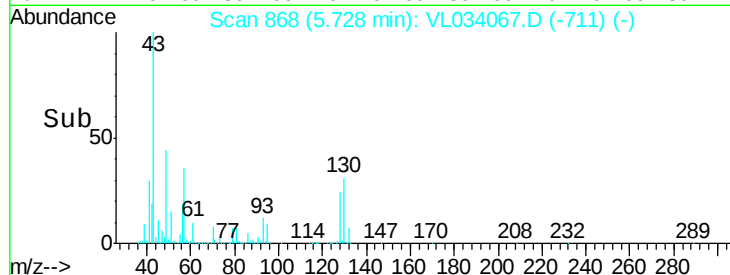
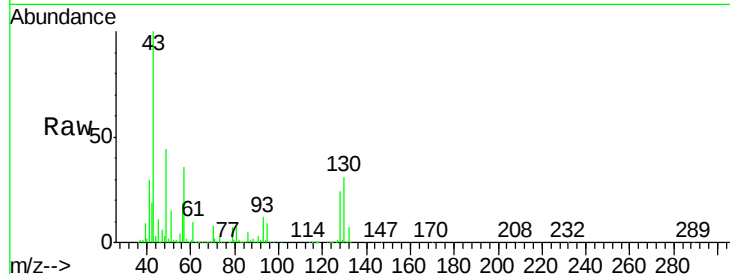
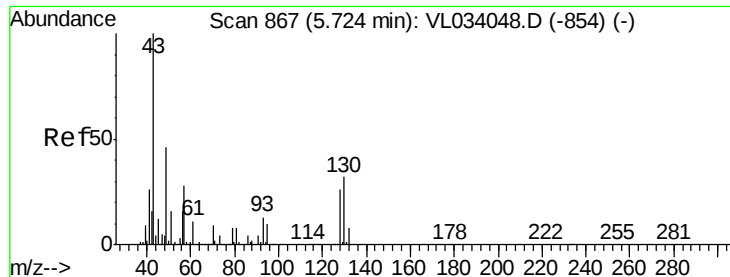


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

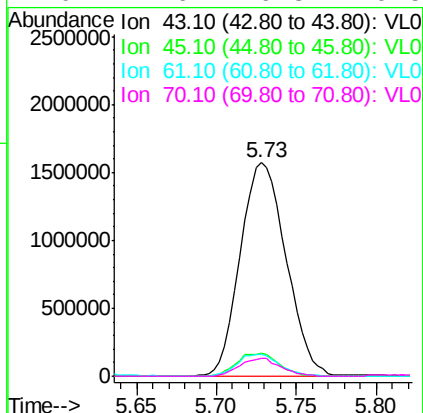
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 9.826 ppbv
RT: 5.73 min Scan# 868
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

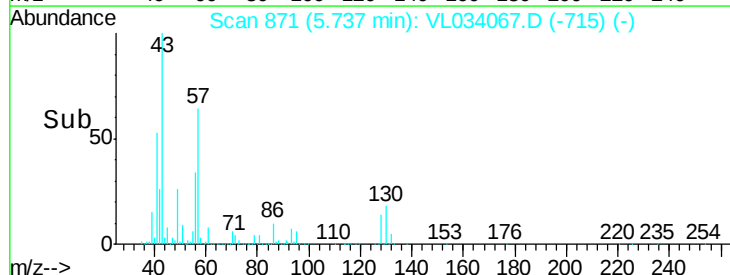
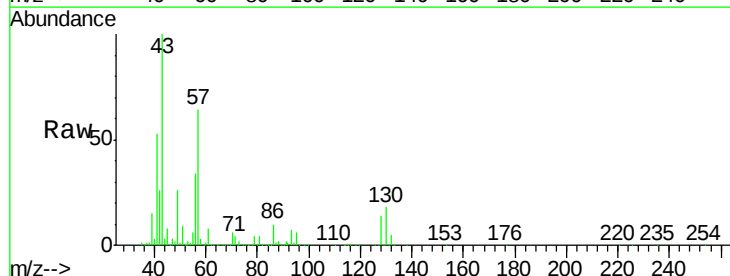
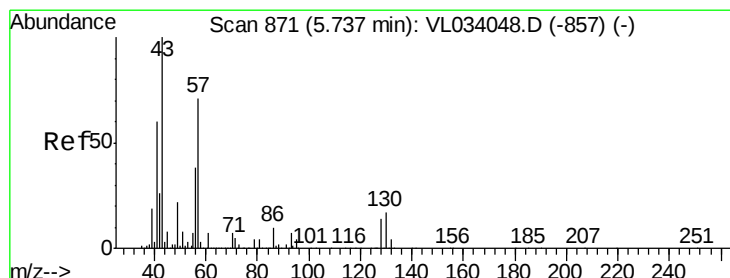
Tot Ion	43	Resp	3076032
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.5	8.1	12.1
70	7.6	6.3	9.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

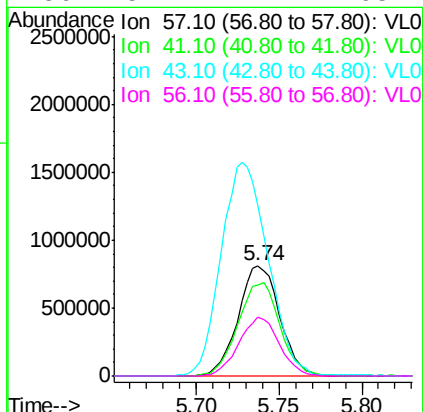
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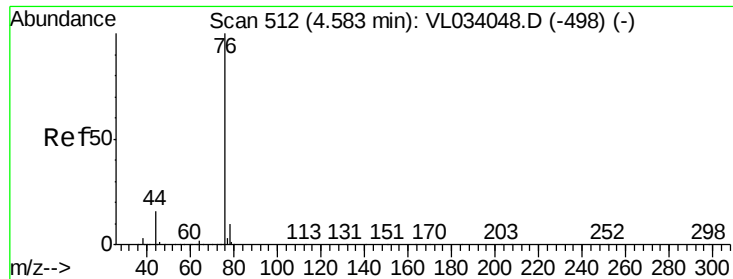
MMdadoda
8/2/2019 9:37:49 AM



#26
Hexane
Concen: 9.959 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion	57	Resp	1410079
Ion	Ratio	Lower	Upper
57	100		
41	86.5	69.0	103.6
43	219.7	176.6	264.8
56	52.2	42.2	63.4





#27

Carbon Disulfide

Concen: 7.718 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1701714

Ion Ratio Lower Upper

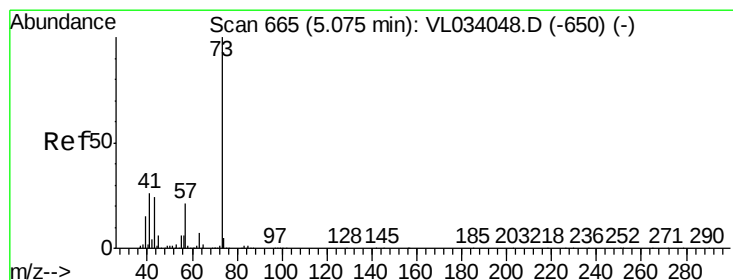
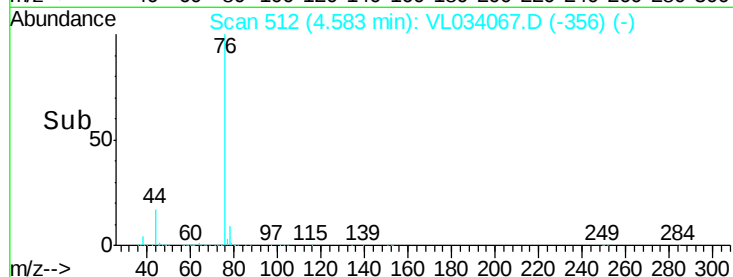
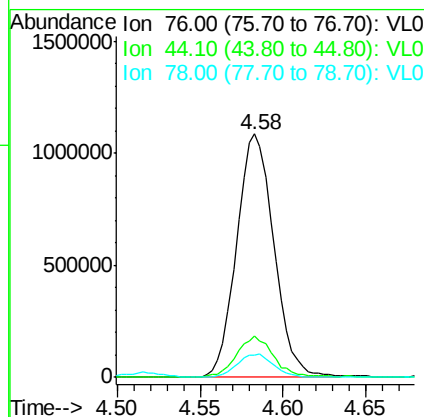
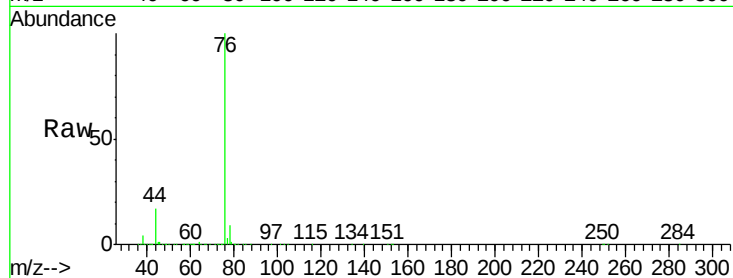
76 100

44 16.2 13.0 19.4

78 9.4 7.7 11.5

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MMDadoda
8/2/2019 9:37:49 AM



#28

Methyl tert-Butyl Ether

Concen: 9.140 ppbv

RT: 5.07 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL034067.D

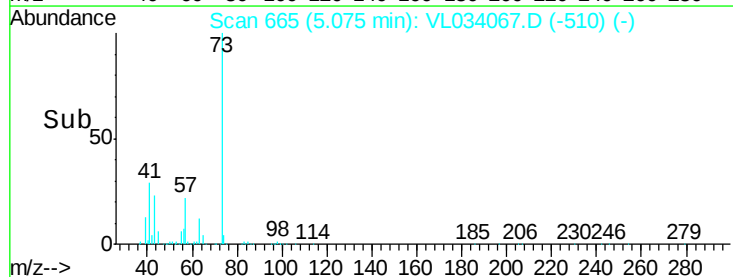
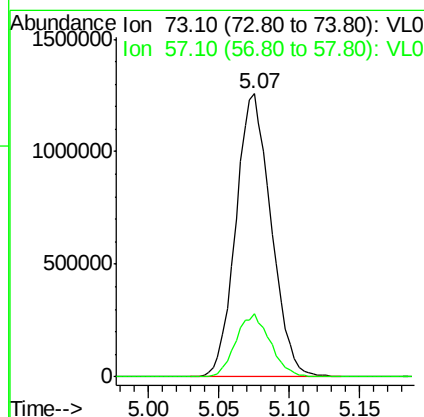
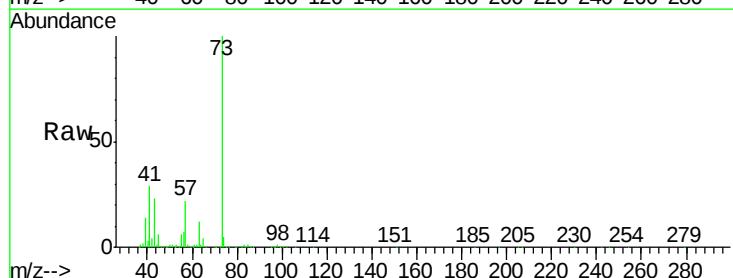
Acq: 30 Jul 2019 18:24

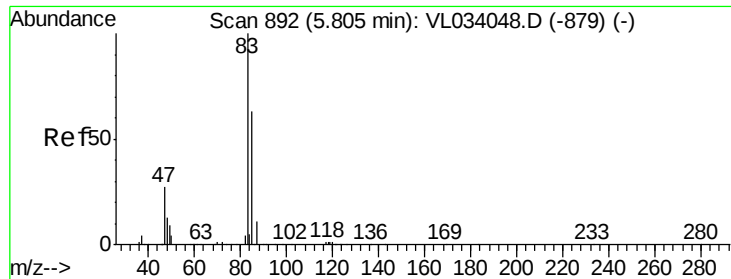
Tgt Ion: 73 Resp: 2202596

Ion Ratio Lower Upper

73 100

57 22.0 17.2 25.8





#29

Chloroform

Concen: 8.641 ppbv

RT: 5.81 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Tot Ion: 83 Resp: 2234642

Ion Ratio Lower Upper

83 100

85 63.6 50.2 75.4

Instrument :

MSVOA_L

ClientSampleId :

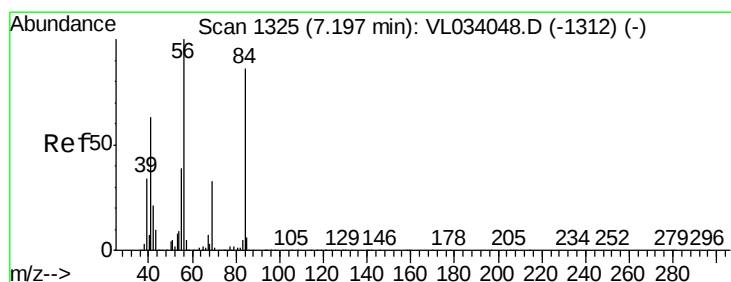
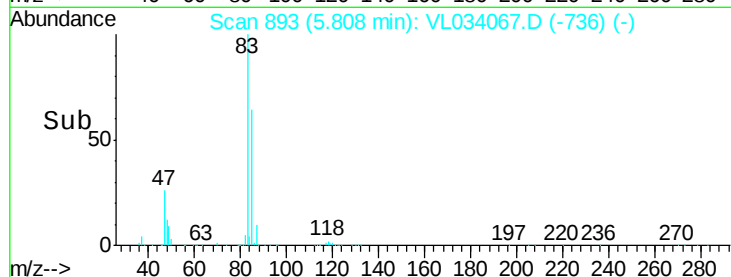
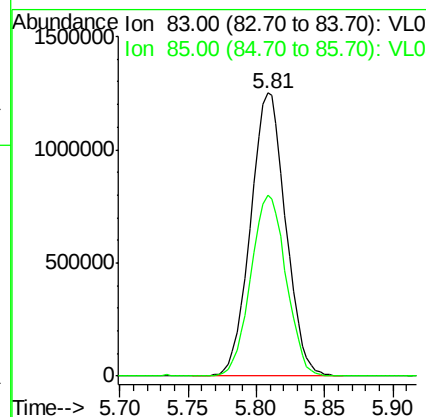
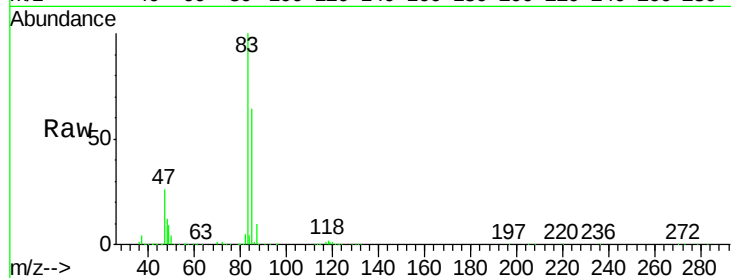
VSTDCCC010EC

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MMdadoda

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#30

Cyclohexane

Concen: 11.010 ppbv

RT: 7.20 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

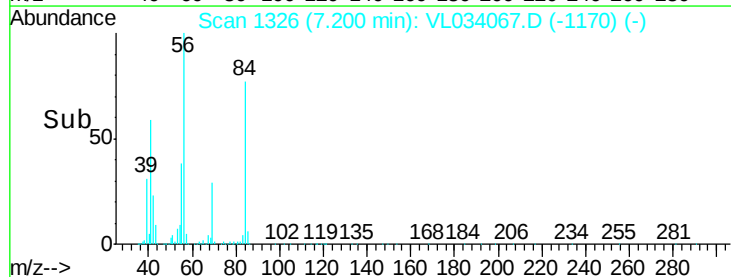
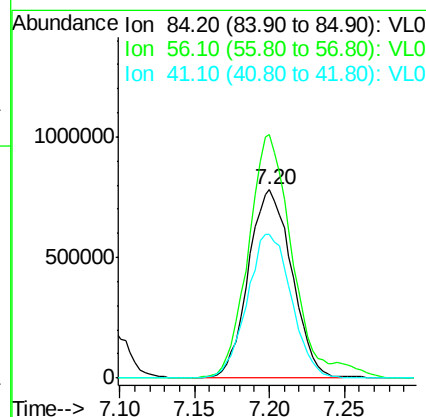
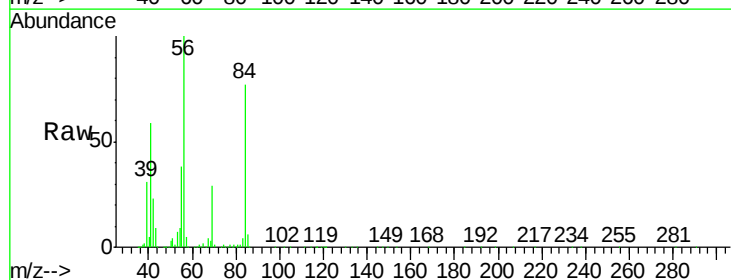
Tgt Ion: 84 Resp: 1584002

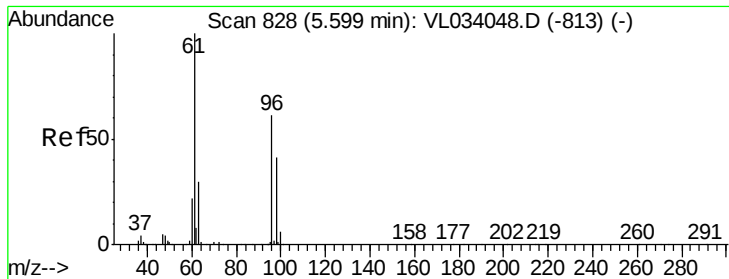
Ion Ratio Lower Upper

84 100

56 131.2 101.7 152.5

41 77.4 59.4 89.0





#31

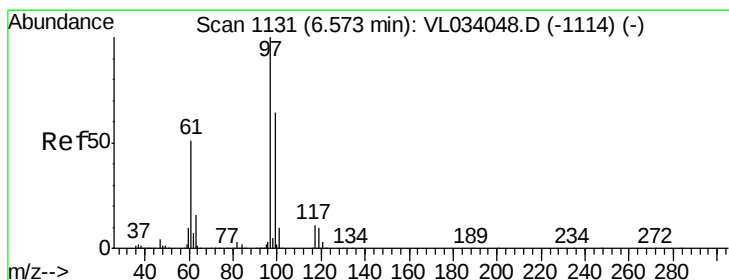
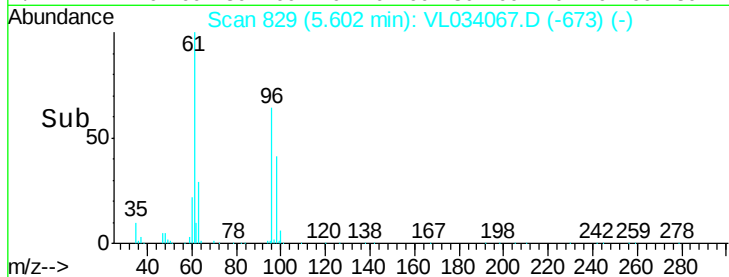
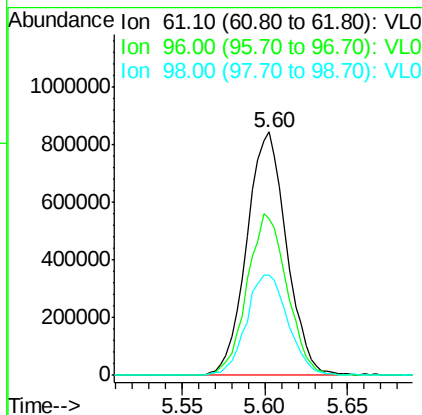
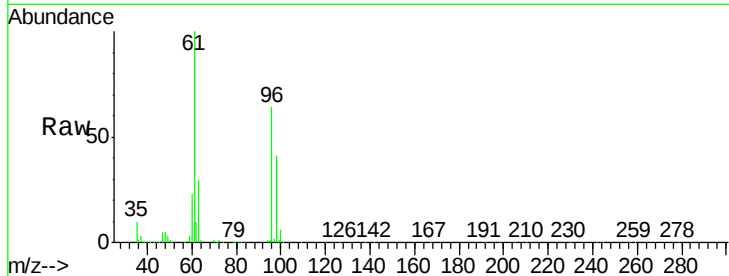
cis-1,2-Dichloroethene
Concen: 10.209 ppbv
RT: 5.60 min Scan# 829
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.1	49.1	73.7
98	41.2	32.5	48.7

Manual Integrations
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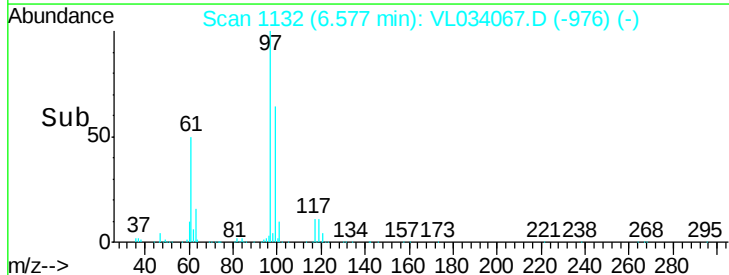
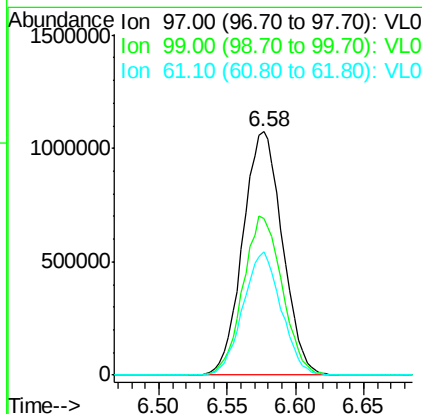
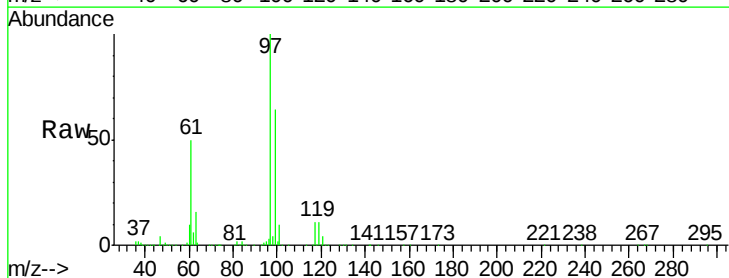
MMDadoda
8/2/2019 9:37:49 AM

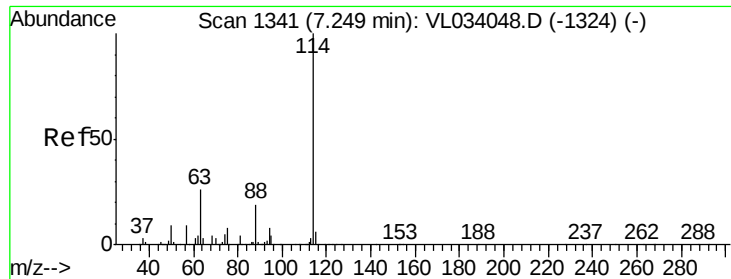


#32

1,1,1-Trichloroethane
Concen: 7.968 ppbv
RT: 6.58 min Scan# 1132
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.0	76.6
61	49.0	39.5	59.3





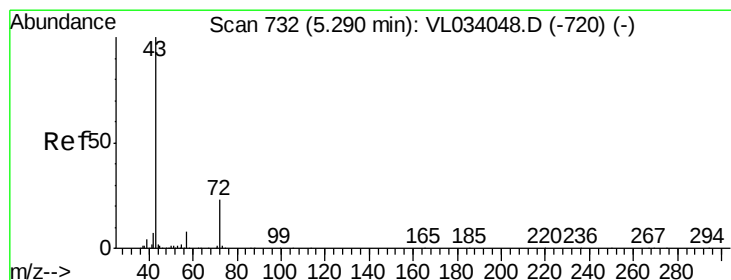
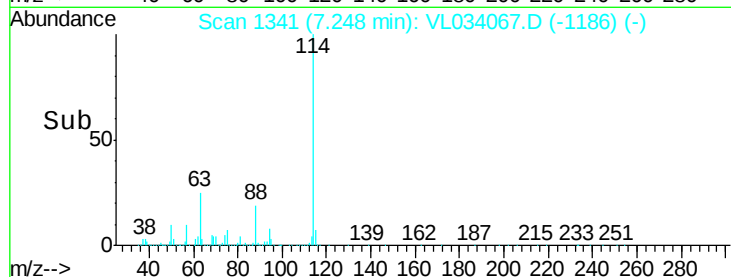
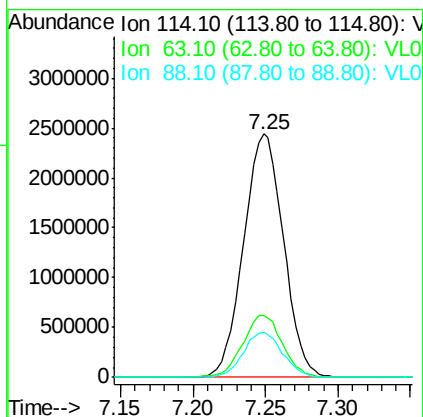
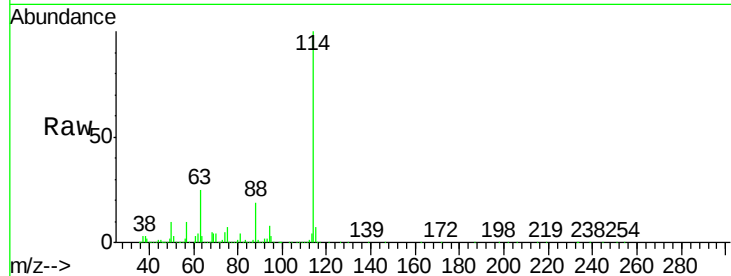
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 4673654
 Ion Ratio Lower Upper
 114 100
 63 25.6 21.0 31.6
 88 18.4 14.7 22.1

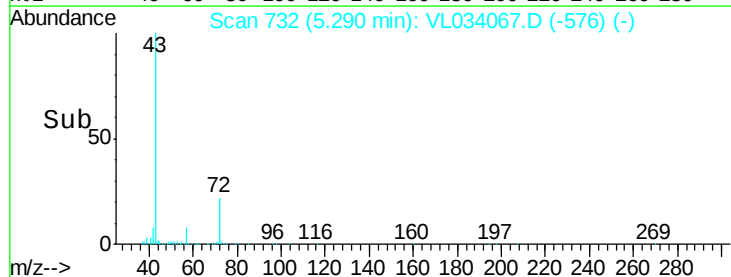
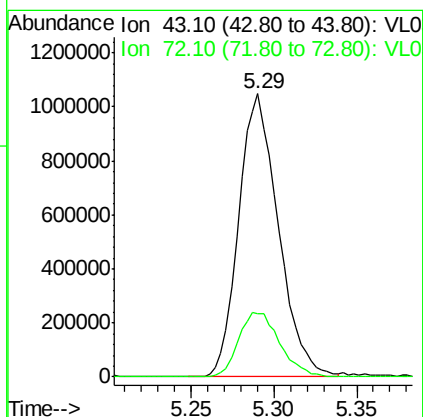
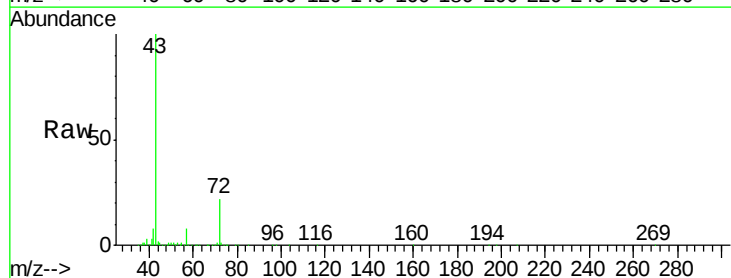
Manual Integrations
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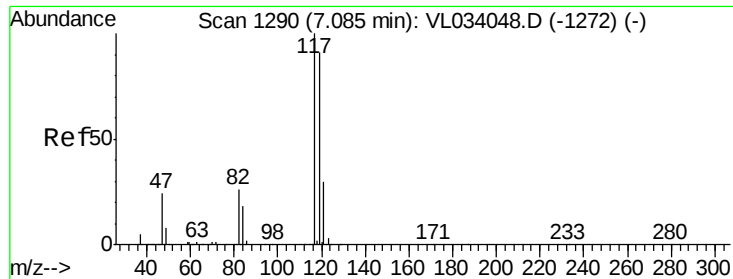
MMDadoda
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#34
 2-Butanone
 Concen: 9.028 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Tgt Ion: 43 Resp: 1736397
 Ion Ratio Lower Upper
 43 100
 72 24.1 20.2 30.4





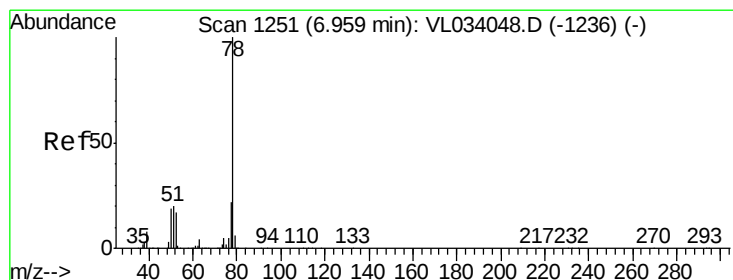
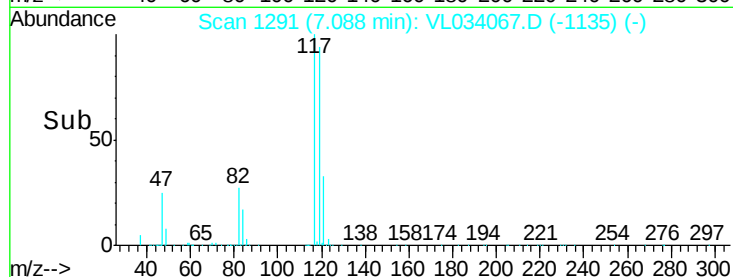
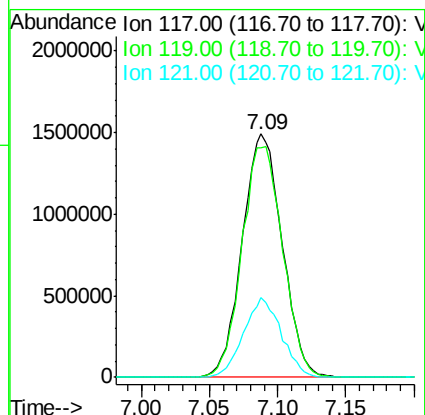
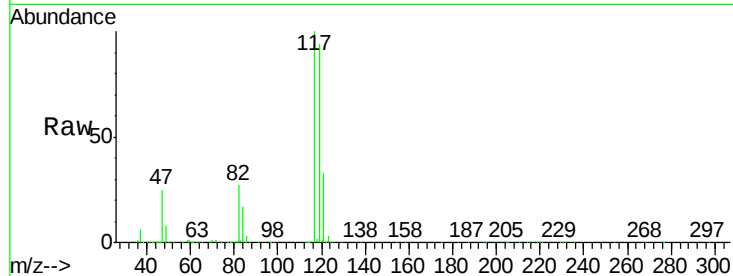
#35
Carbon Tetrachloride
Concen: 9.175 ppbv
RT: 7.09 min Scan# 1291
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.2	73.2	109.8
121	32.5	24.0	36.0

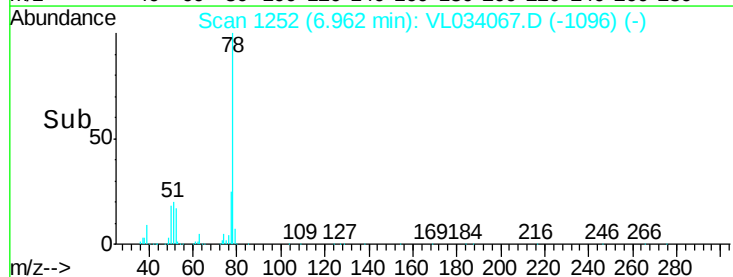
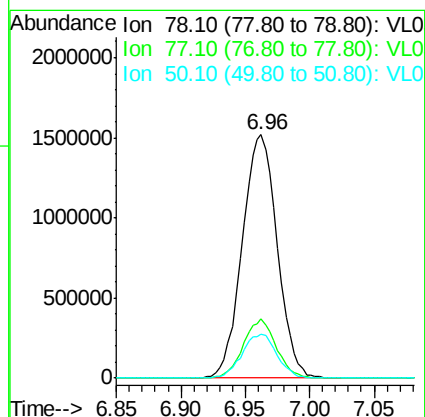
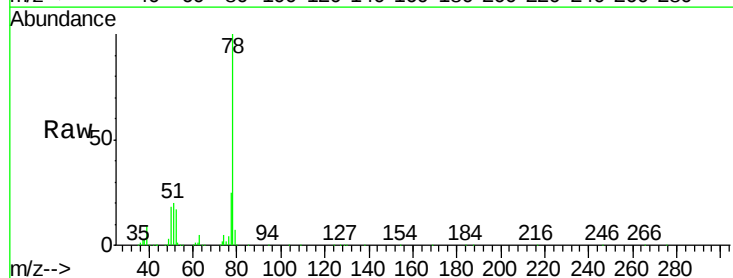
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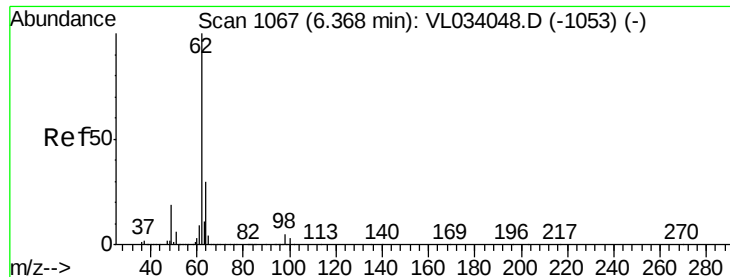
MMdadoda
8/2/2019 9:37:49 AM



#36
Benzene
Concen: 9.201 ppbv
RT: 6.96 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	17.9	26.9
50	17.8	14.9	22.3





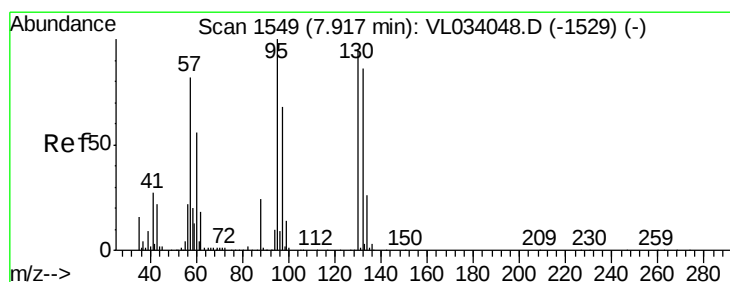
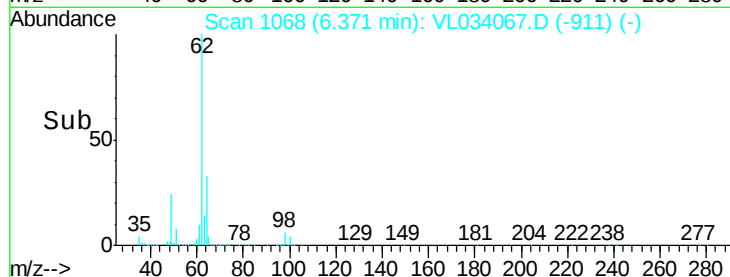
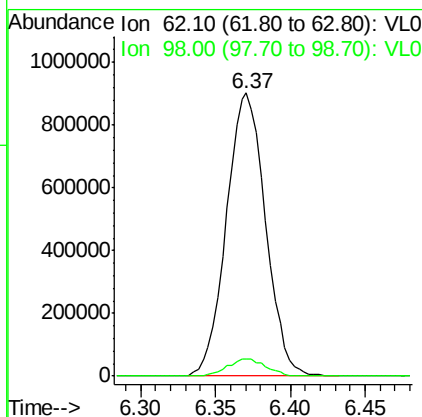
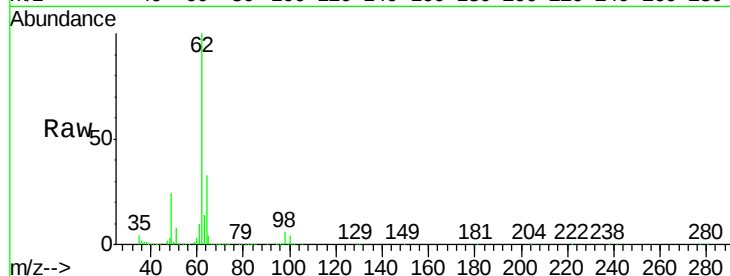
#37
 1,2-Dichloroethane
 Concen: 7.612 ppbv
 RT: 6.37 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1627391
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.2 6.2

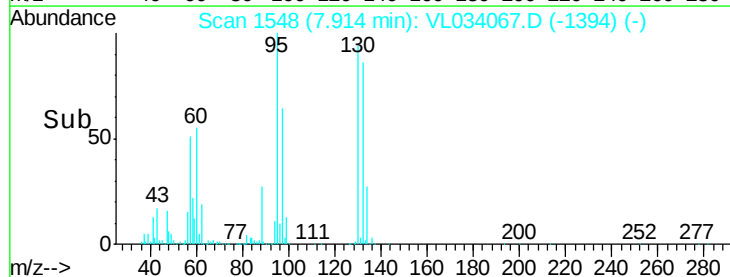
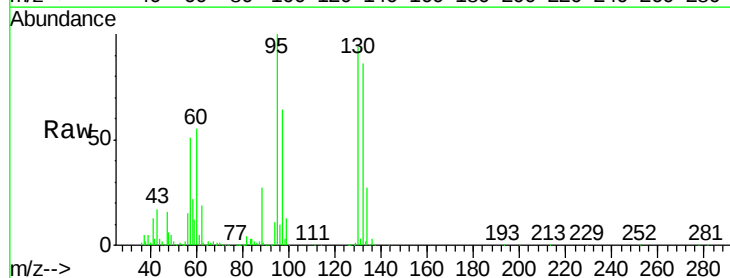
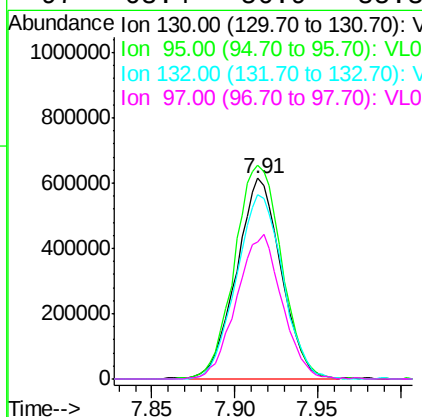
Manual Integrations
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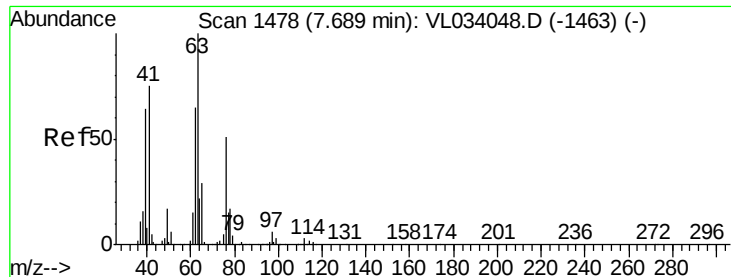
MMdadoda
 8/2/2019 9:37:49 AM



#38
 Trichloroethene
 Concen: 8.765 ppbv
 RT: 7.91 min Scan# 1548
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Tgt Ion: 130 Resp: 1142830
 Ion Ratio Lower Upper
 130 100
 95 106.3 84.1 126.1
 132 91.9 72.7 109.1
 97 68.4 56.9 85.3





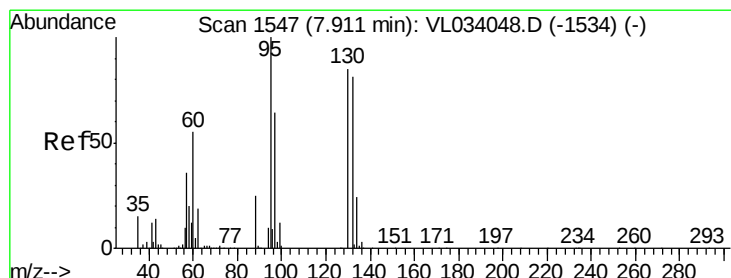
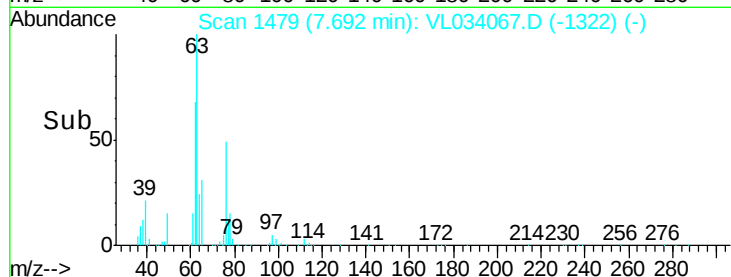
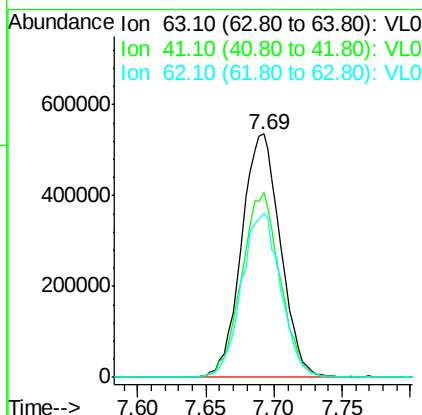
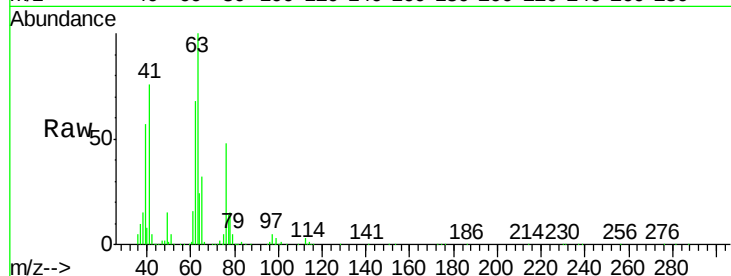
#39
 1,2-Dichloropropane
 Concen: 8.370 ppbv
 RT: 7.69 min Scan# 1479
 Delta R.T. 0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.6	59.8	89.8
62	67.7	52.2	78.2

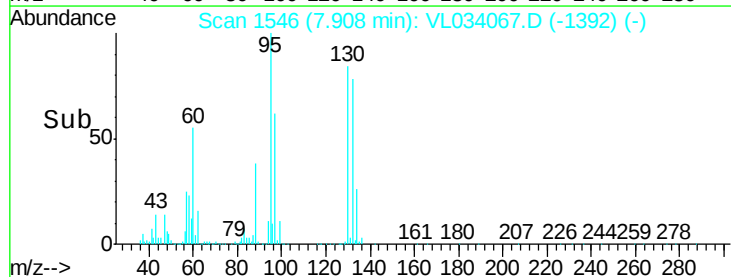
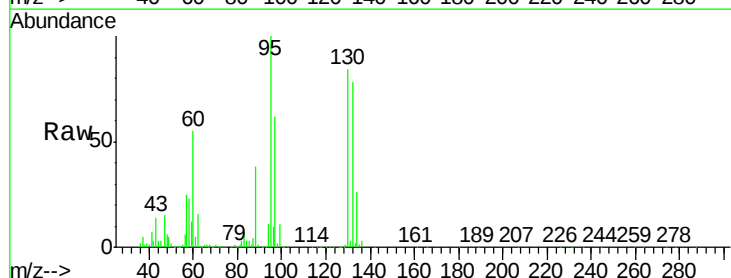
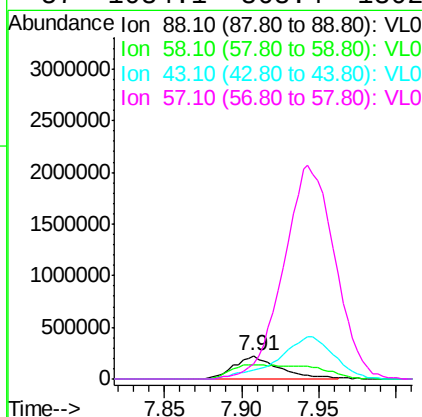
Manual Integrations
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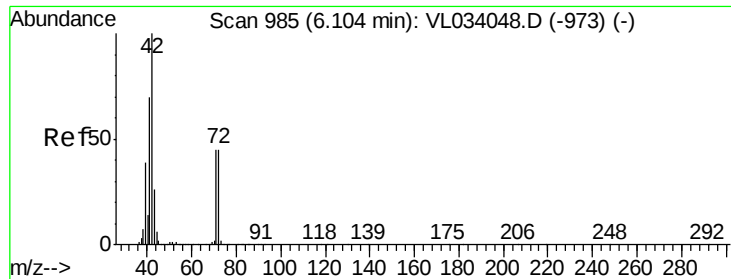
MMdadoda
 8/2/2019 9:37:49 AM



#40
 1,4-Dioxane
 Concen: 8.881 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Tgt Ion	Ratio	Lower	Upper
88	100		
58	124.2	99.6	149.4
43	234.3	189.2	283.8
57	1084.1	868.4	1302.6





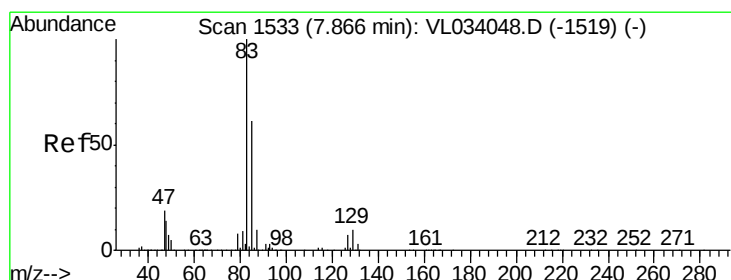
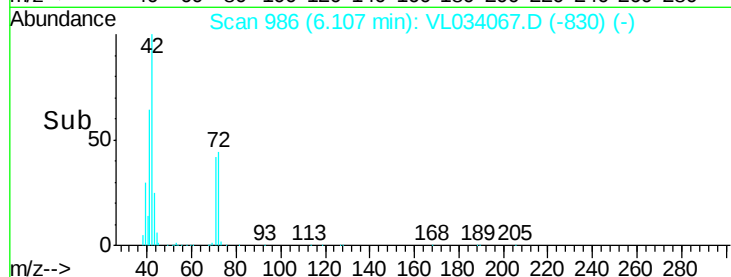
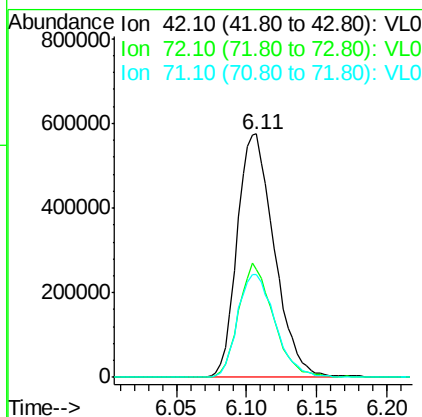
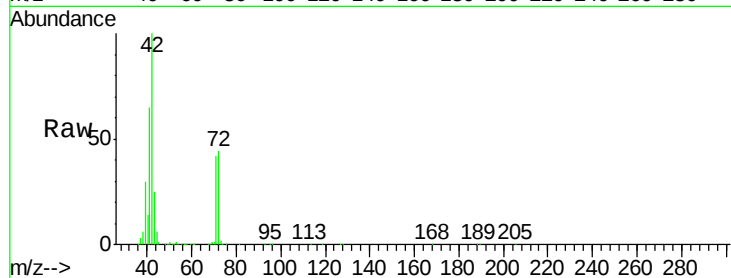
#41
Tetrahydrofuran
Concen: 10.852 ppbv
RT: 6.11 min Scan# 986
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.3	36.9	55.3
71	42.9	36.6	54.8

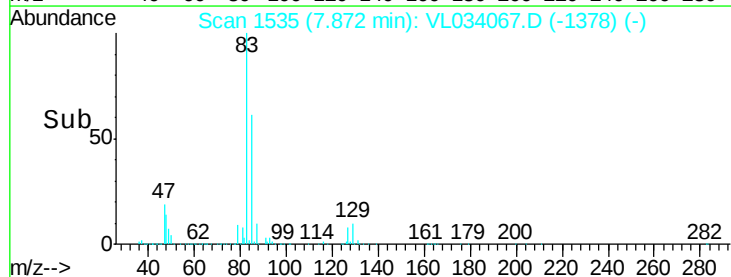
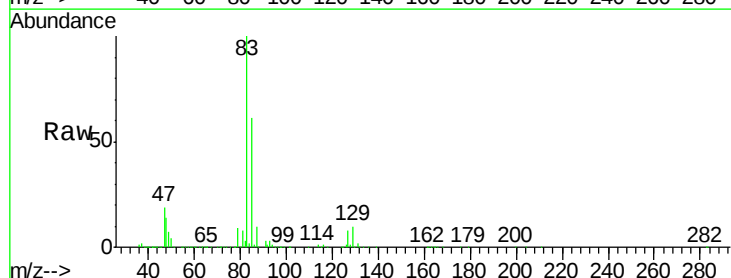
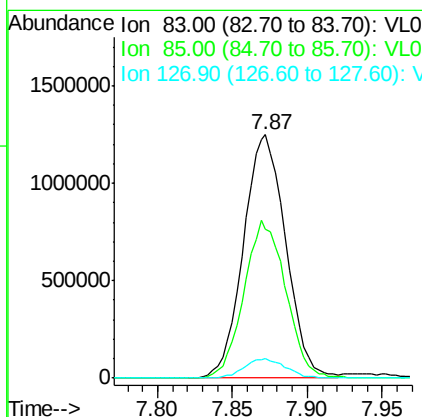
Manual Integrations
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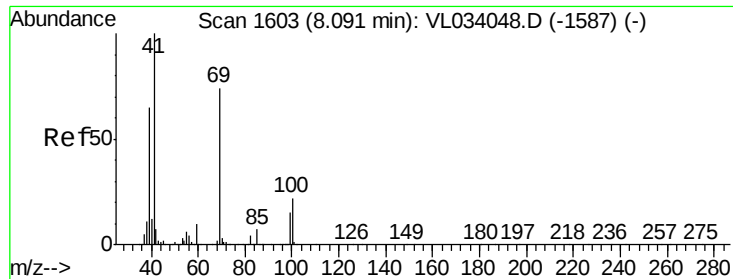
MMdadoda
8/2/2019 9:37:49 AM



#42
Bromodichloromethane
Concen: 8.317 ppbv
RT: 7.87 min Scan# 1535
Delta R.T. 0.01 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.2	48.6	73.0
127	8.0	5.5	8.3





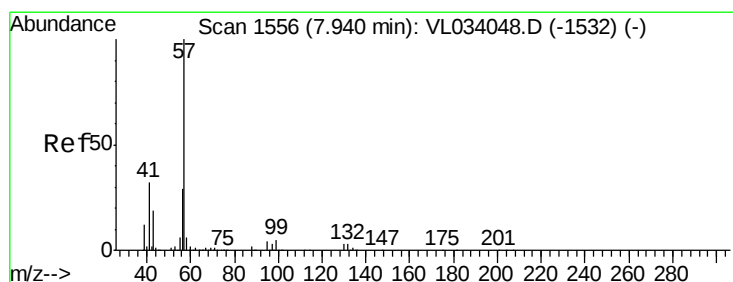
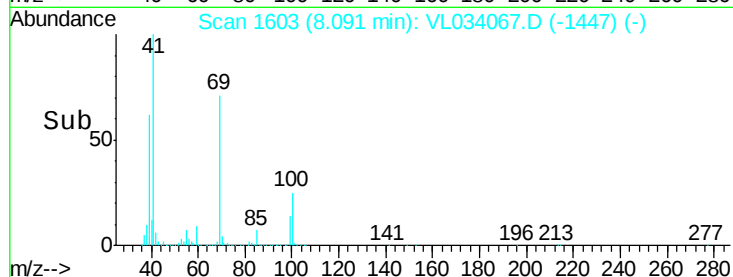
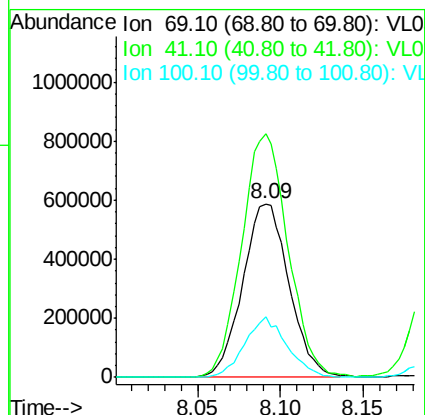
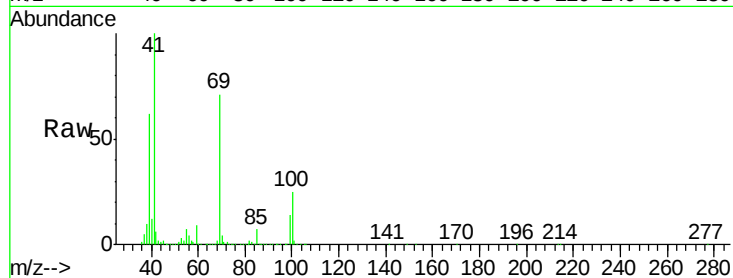
#43
Methvl Methacrilate
Concen: 10.288 ppbv
RT: 8.09 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1140888
Ion Ratio Lower Upper
69 100
41 140.7 112.8 169.2
100 32.0 26.1 39.1

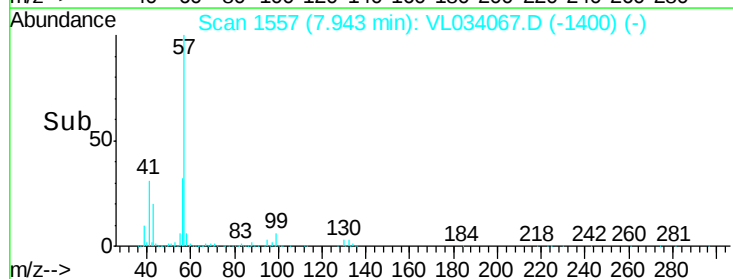
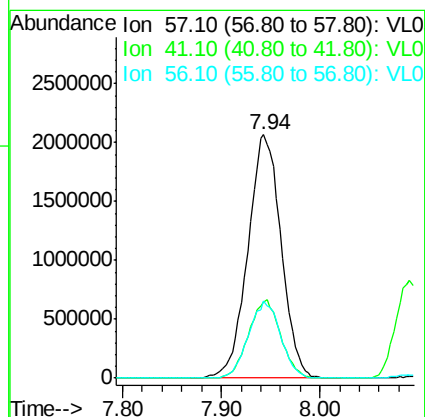
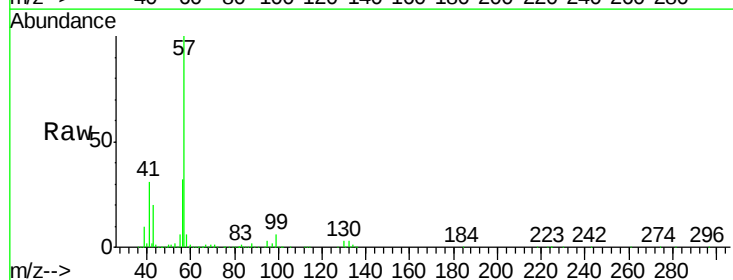
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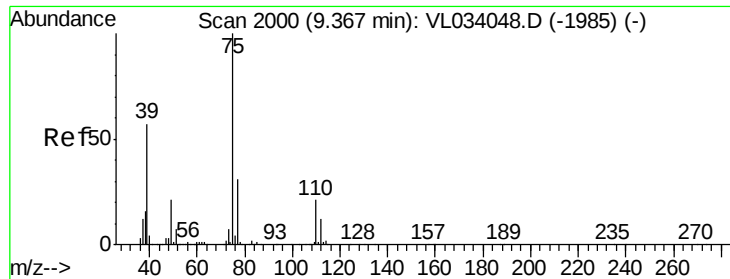
MMdadoda
8/2/2019 9:37:49 AM



#44
2,2,4-Trimethylpentane
Concen: 9.283 ppbv
RT: 7.94 min Scan# 1557
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion: 57 Resp: 4795015
Ion Ratio Lower Upper
57 100
41 31.0 26.2 39.2
56 30.4 24.2 36.2





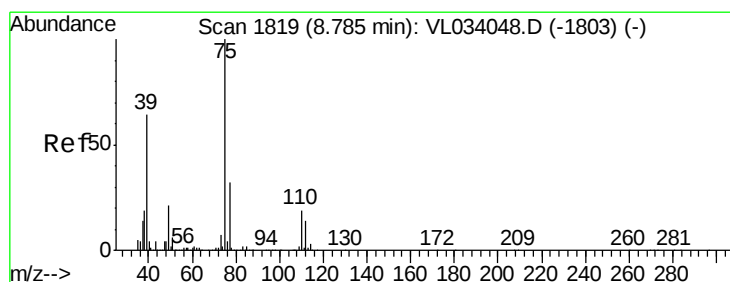
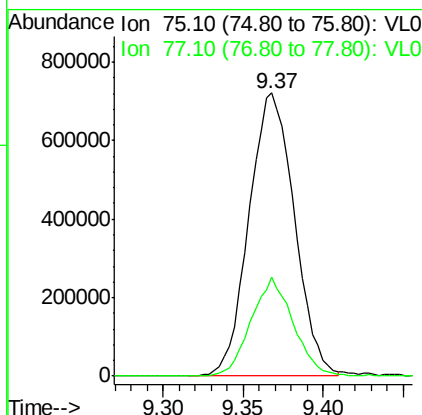
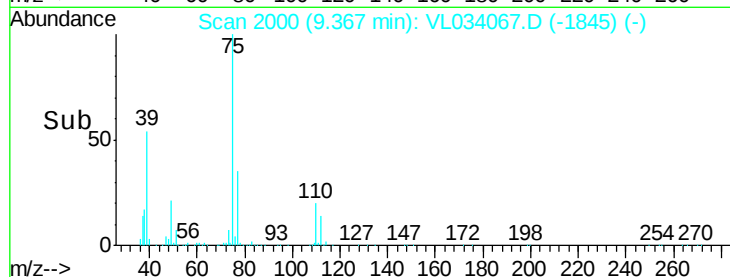
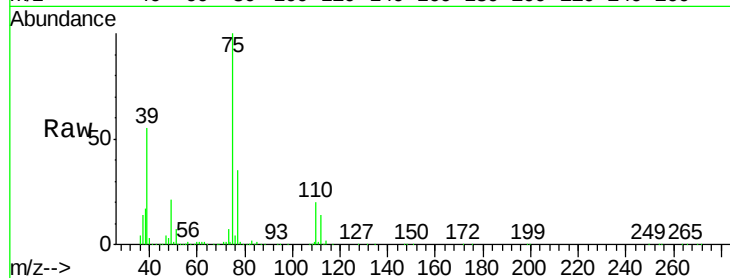
#45
t-1,3-Dichloropropene
Concen: 9.846 ppbv
RT: 9.37 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1404826
Ion Ratio Lower Upper
75 100
77 35.0 24.6 37.0

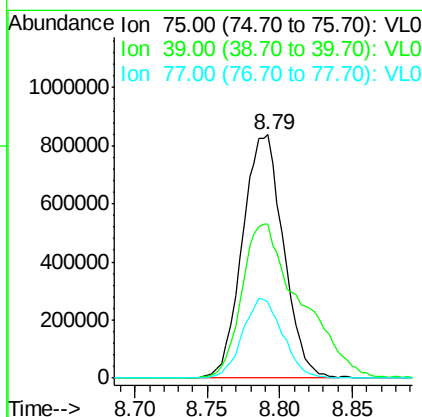
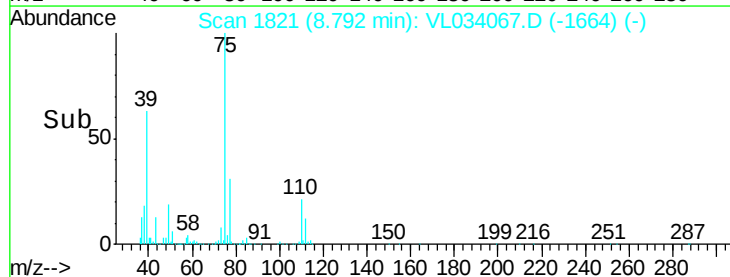
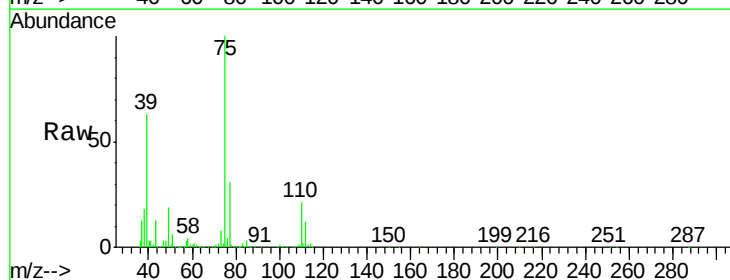
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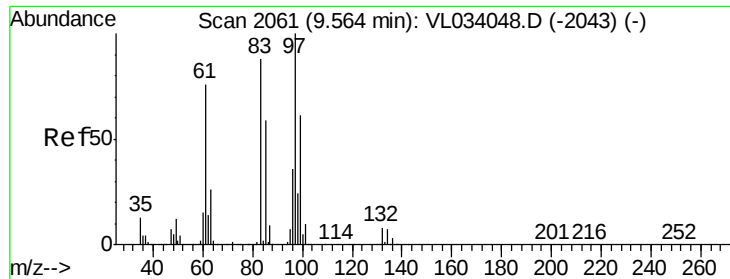
MMdadoda
8/2/2019 9:37:49 AM



#46
cis-1,3-Dichloropropene
Concen: 10.280 ppbv
RT: 8.79 min Scan# 1821
Delta R.T. 0.01 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion: 75 Resp: 1648469
Ion Ratio Lower Upper
75 100
39 63.4 51.4 77.2
77 31.1 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 9.177 ppbv

RT: 9.57 min Scan# 2062

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1205266

Ion Ratio Lower Upper

97 100

83 84.2 70.6 106.0

85 53.4 47.3 70.9

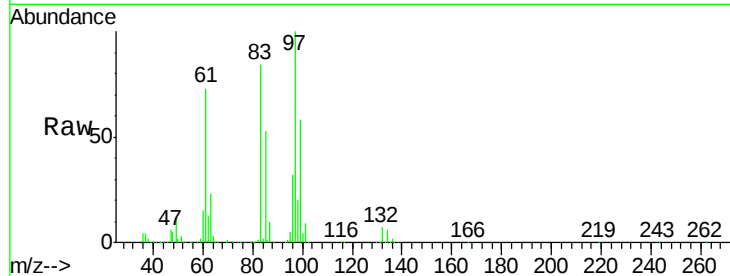
99 58.4 48.6 72.8

Manual Integrations

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MMdadoda

8/2/2019 9:37:49 AM

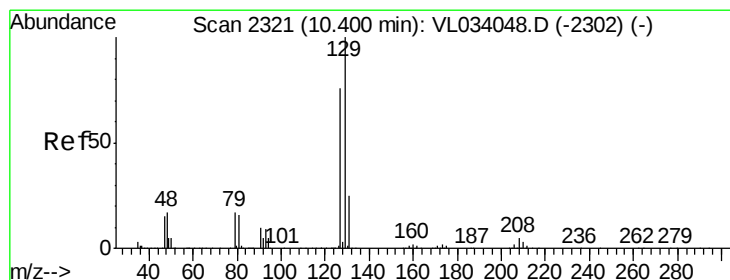
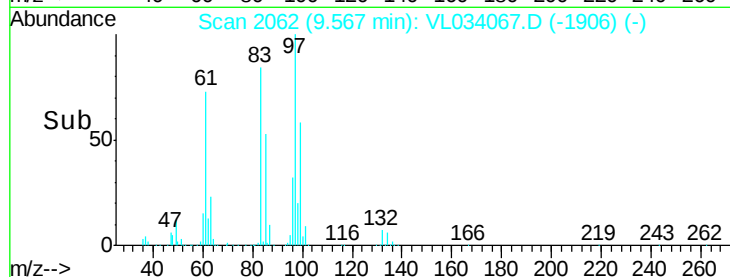
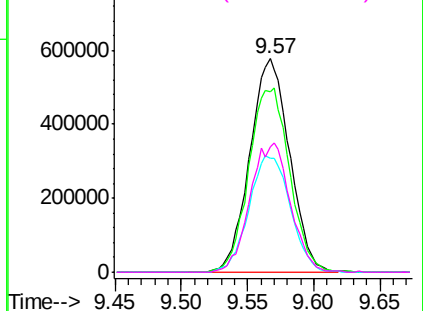


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 8.163 ppbv

RT: 10.40 min Scan# 2322

Delta R.T. 0.00 min

Lab File: VL034067.D

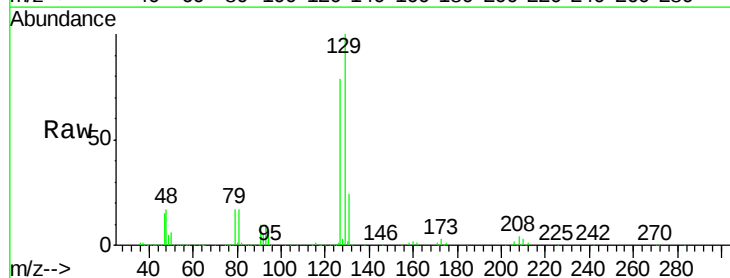
Acq: 30 Jul 2019 18:24

Tgt Ion: 129 Resp: 2046869

Ion Ratio Lower Upper

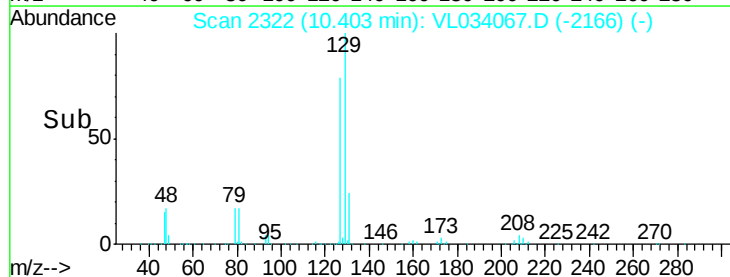
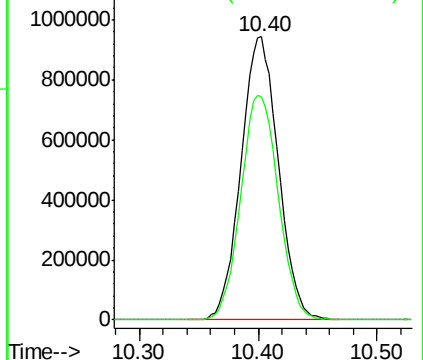
129 100

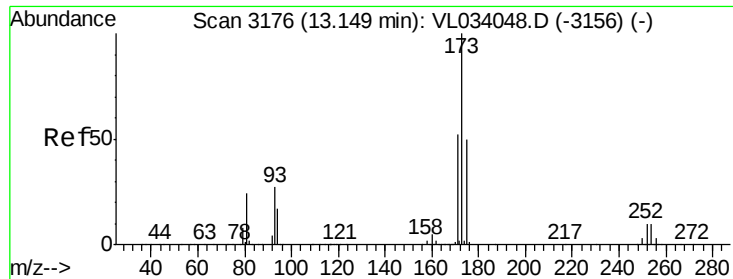
127 80.0 38.6 115.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





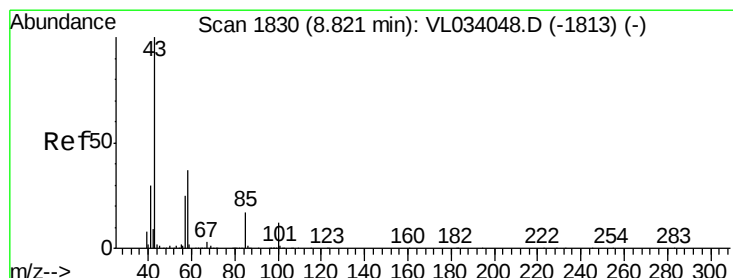
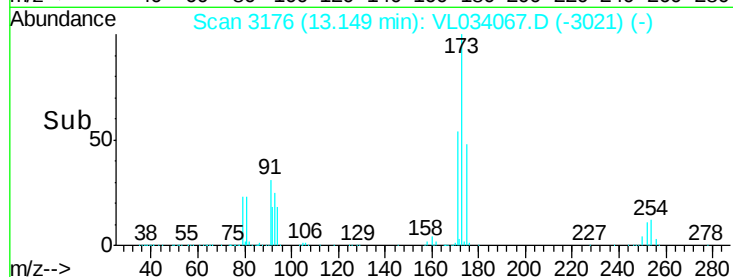
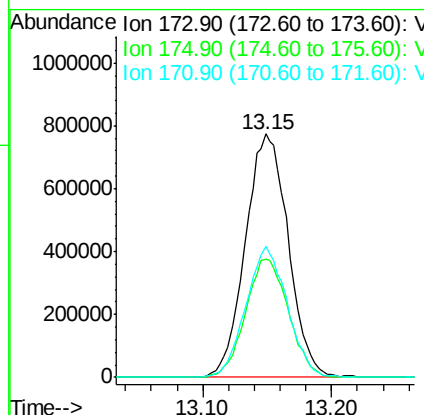
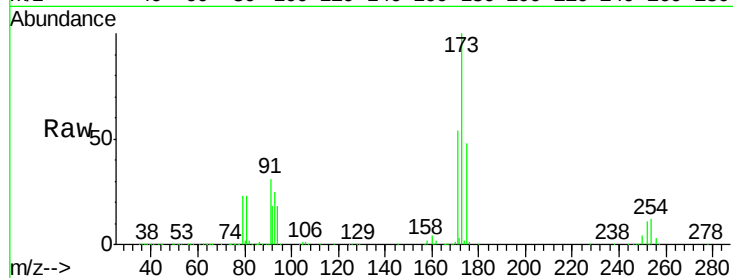
#49
Bromoform
Concen: 8.147 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1780935
Ion Ratio Lower Upper
173 100
175 49.2 39.4 59.0
171 52.2 41.9 62.9

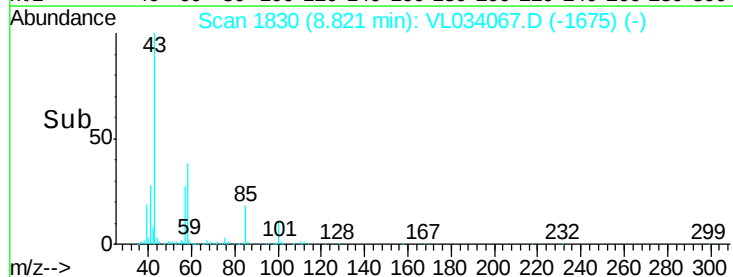
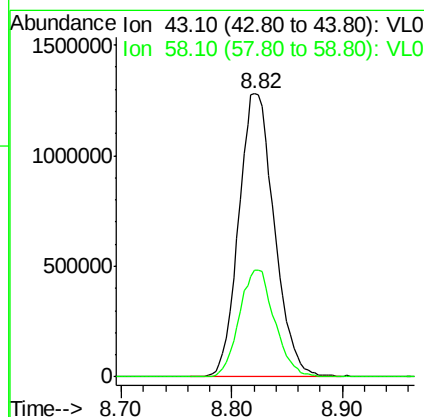
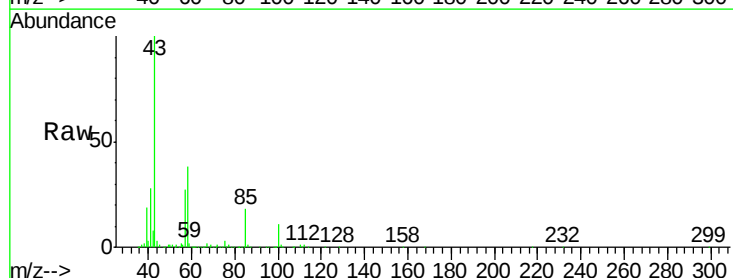
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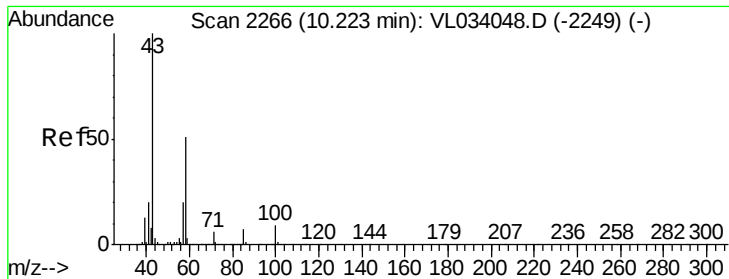
MMdadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.984 ppbv
RT: 8.82 min Scan# 1830
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion: 43 Resp: 2851098
Ion Ratio Lower Upper
43 100
58 37.5 30.7 46.1





#51

2-Hexanone

Concen: 9.860 ppbv

RT: 10.22 min Scan# 2266

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

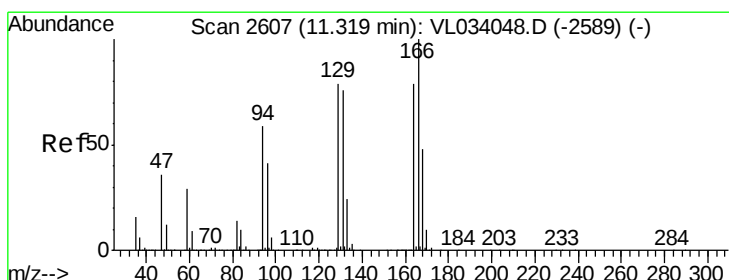
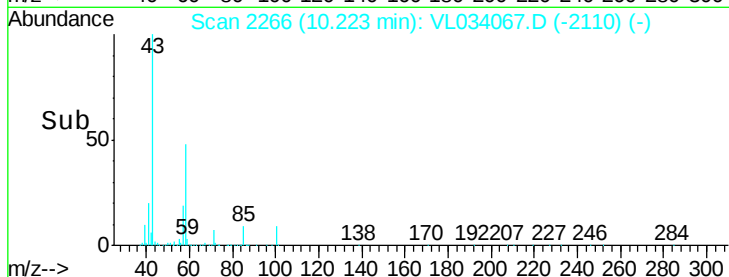
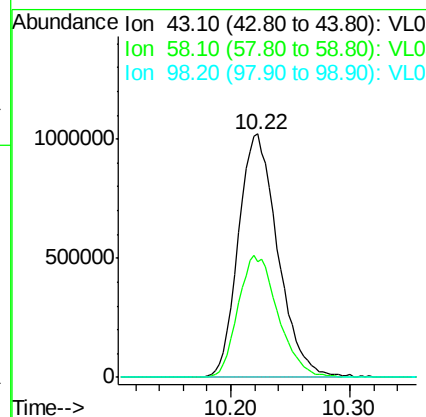
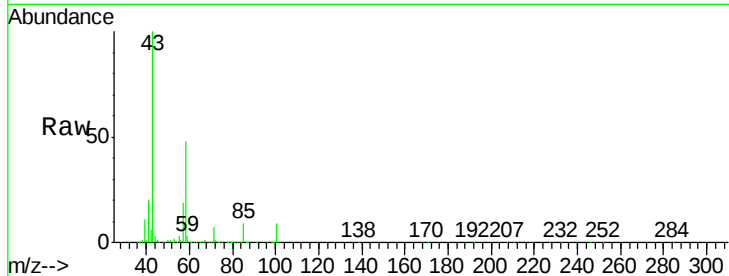
VSTDCCC010EC

Tot Ion: 43 Resp: 2341445

Ion	Ratio	Lower	Upper
43	100		
58	51.1	40.2	60.2
98	0.3	0.4	0.6

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#52

Tetrachloroethene

Concen: 8.968 ppbv

RT: 11.32 min Scan# 2607

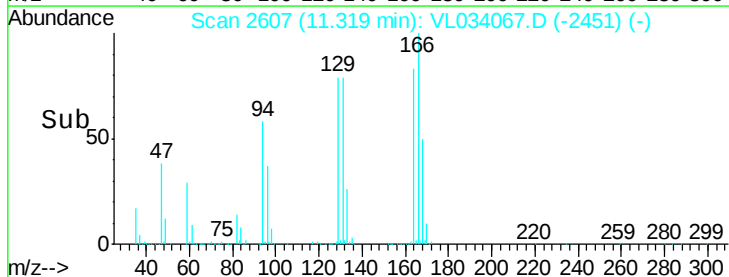
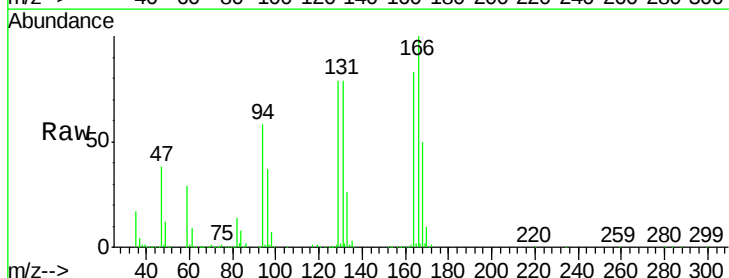
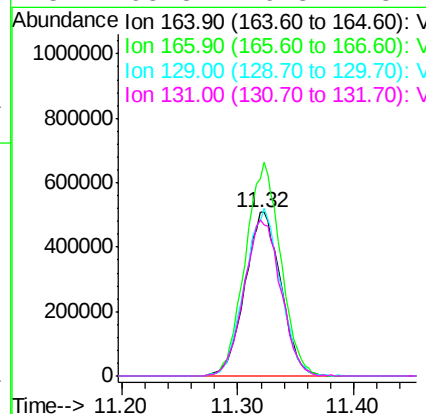
Delta R.T. -0.00 min

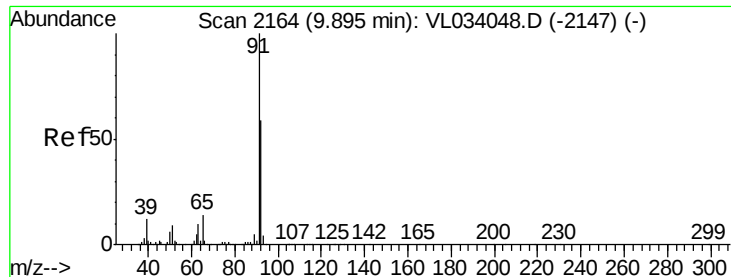
Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Tgt Ion: 164 Resp: 1094108

Ion	Ratio	Lower	Upper
164	100		
166	120.5	101.6	152.4
129	94.8	80.7	121.1
131	95.8	76.8	115.2





#53

Toluene

Concen: 10.454 ppbv

RT: 9.90 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3393409

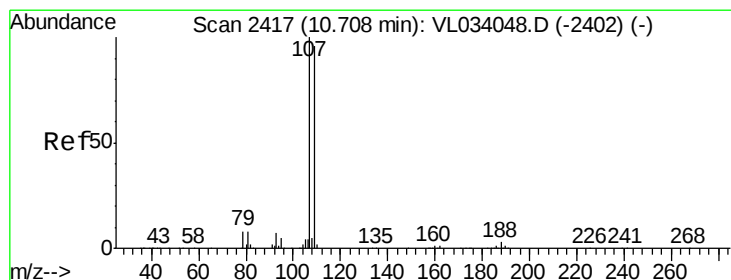
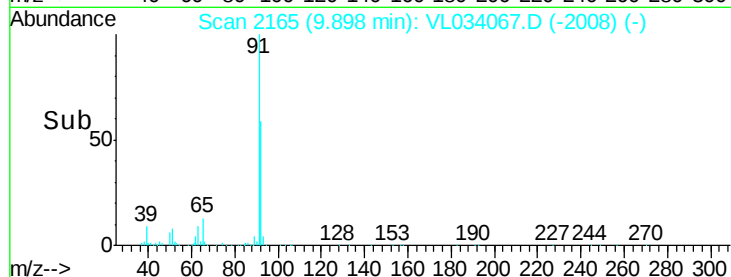
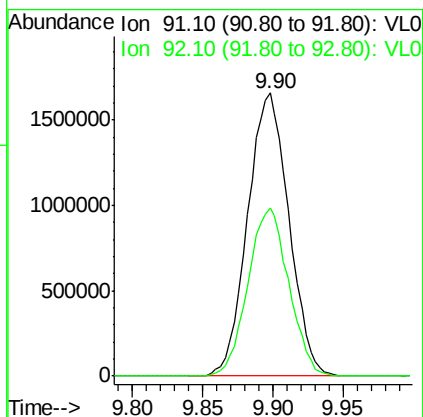
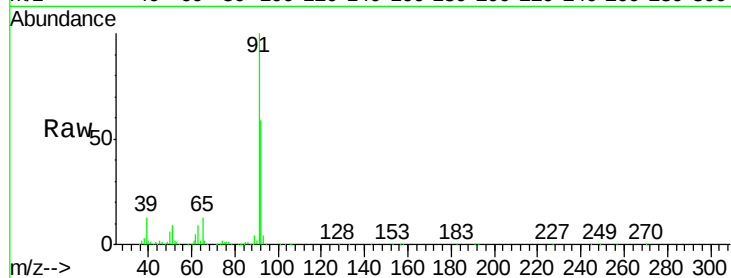
Ion Ratio Lower Upper

91 100

92 58.9 47.4 71.2

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#54

1,2-Dibromoethane

Concen: 9.542 ppbv

RT: 10.71 min Scan# 2417

Delta R.T. -0.00 min

Lab File: VL034067.D

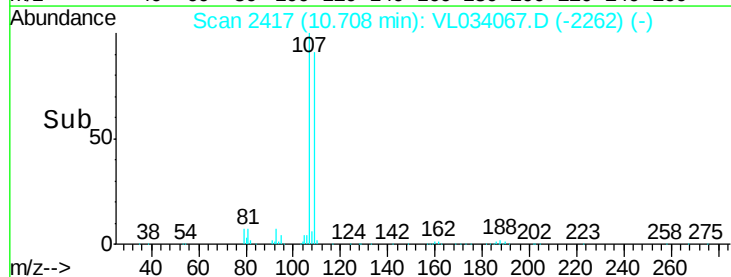
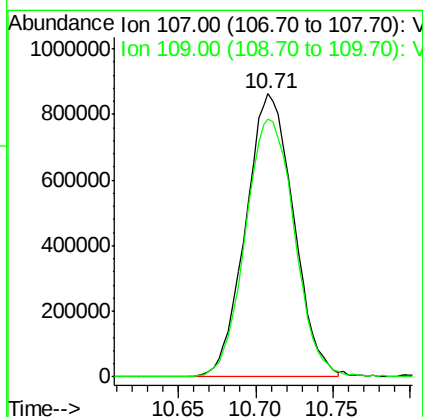
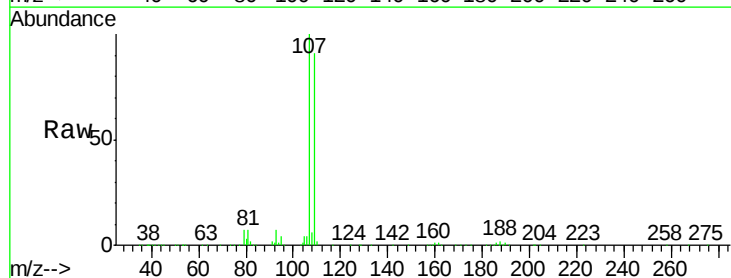
Acq: 30 Jul 2019 18:24

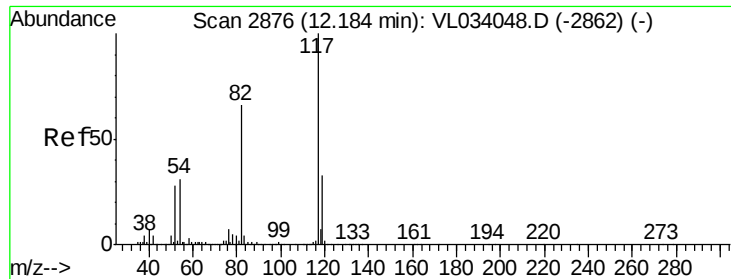
Tgt Ion: 107 Resp: 1860011

Ion Ratio Lower Upper

107 100

109 90.8 76.6 115.0





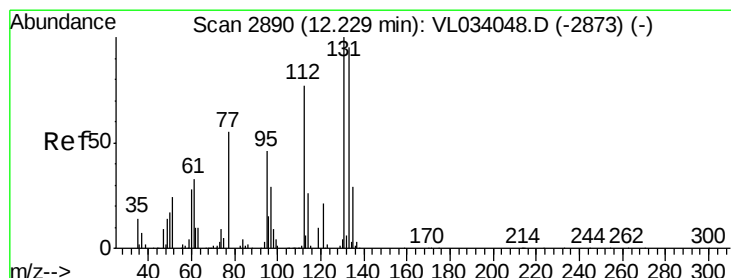
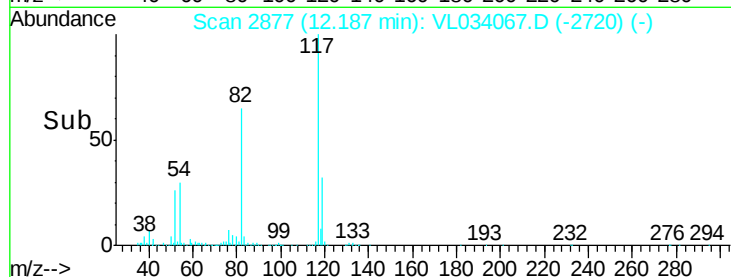
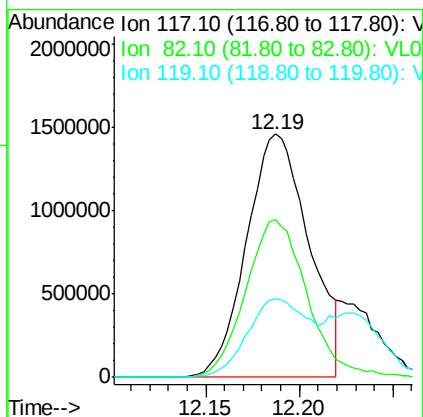
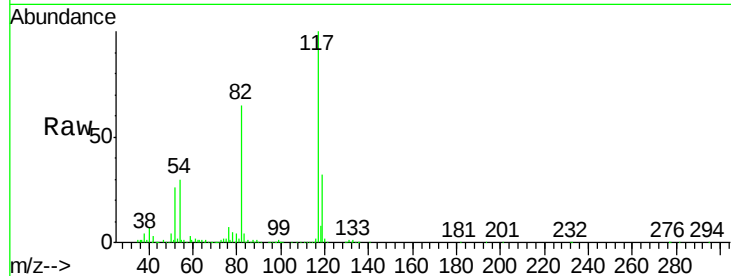
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.19 min Scan# 2877
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3393742
Ion Ratio Lower Upper
117 100
82 63.8 49.8 74.8
119 33.3 43.0 64.6#

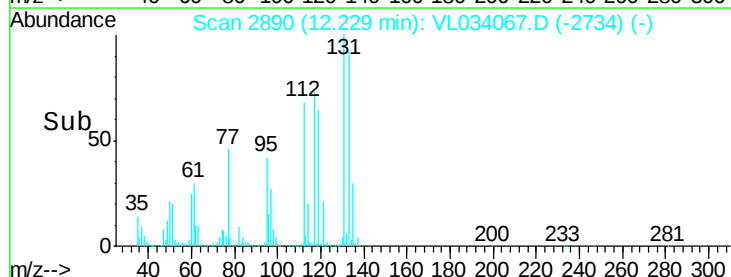
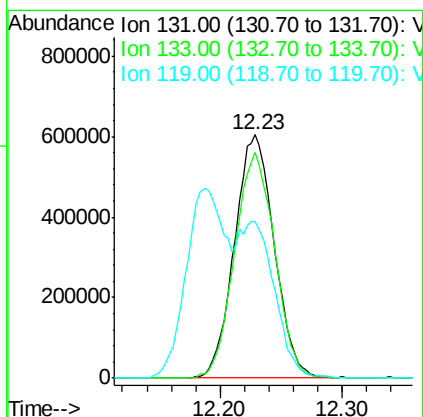
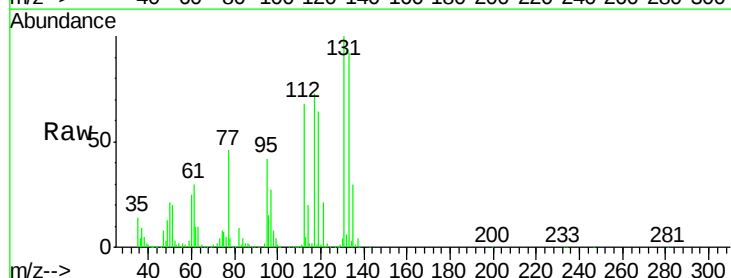
Manual Integrations
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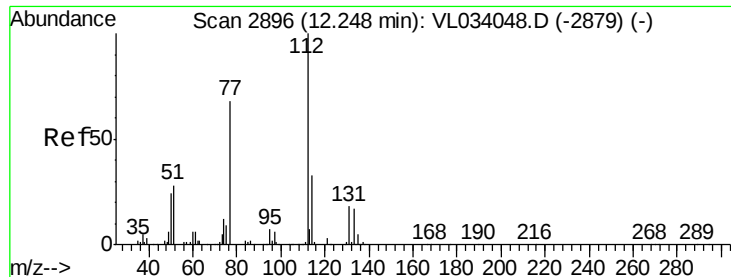
MMdadoda
8/2/2019 9:37:49 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.974 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion:131 Resp: 1360959
Ion Ratio Lower Upper
131 100
133 93.5 76.6 114.8
119 55.8 46.6 69.8





#57

Chlorobenzene

Concen: 9.060 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 2382077

Ion Ratio Lower Upper

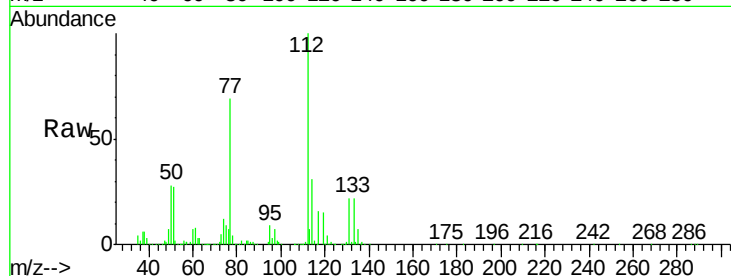
112 100

77 68.2 55.1 82.7

114 31.1 29.5 36.1

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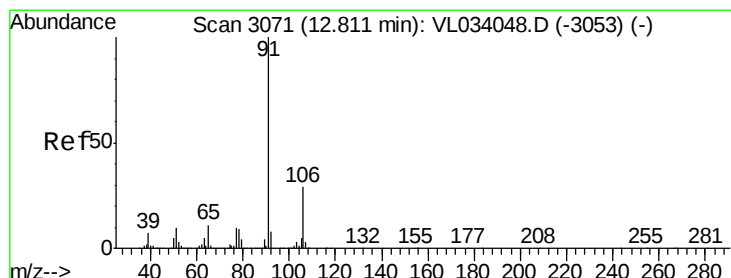
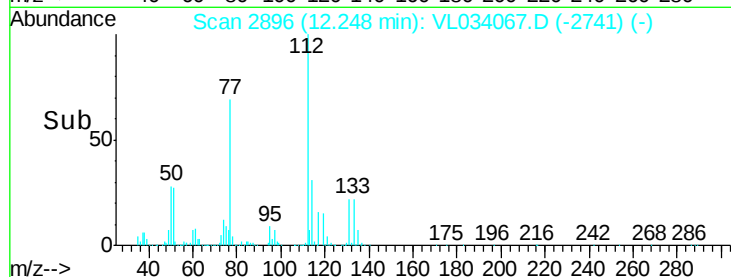
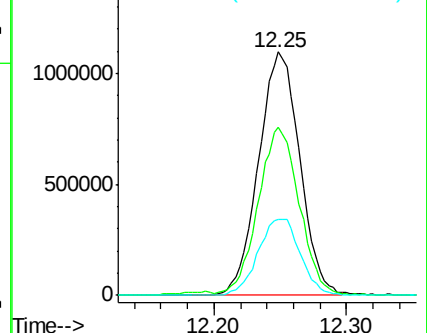
MMDadoda
8/2/2019 9:37:49 AM



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: 10.809 ppbv

RT: 12.81 min Scan# 3072

Delta R.T. 0.00 min

Lab File: VL034067.D

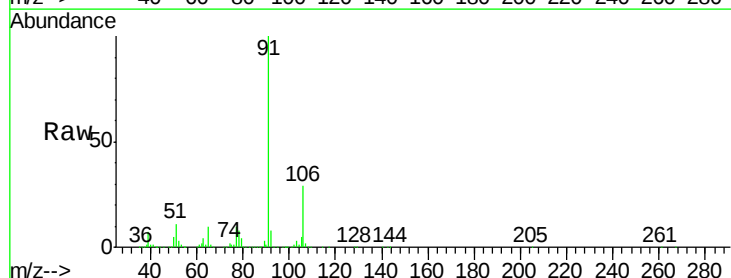
Acq: 30 Jul 2019 18:24

Tgt Ion: 91 Resp: 4341380

Ion Ratio Lower Upper

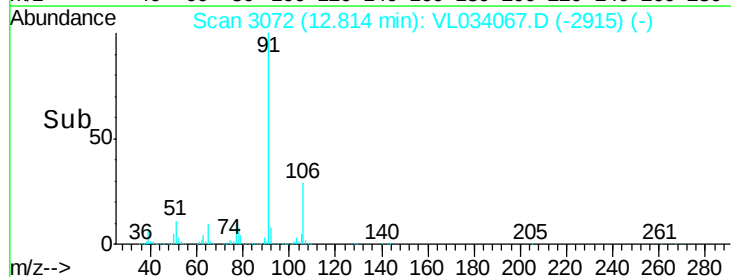
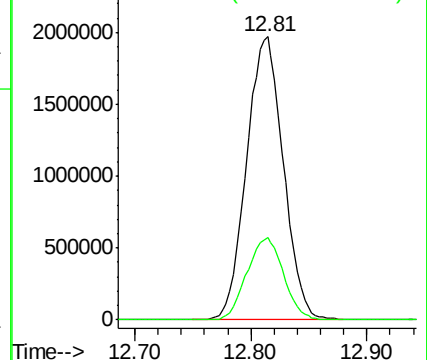
91 100

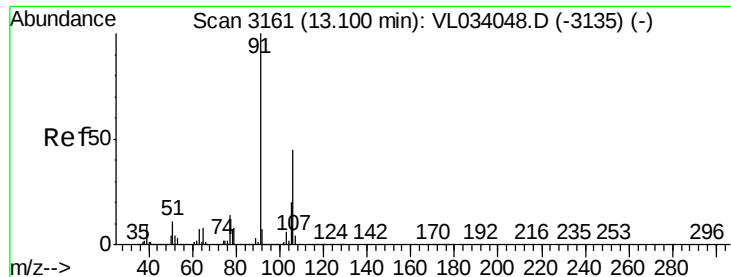
106 29.2 23.5 35.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





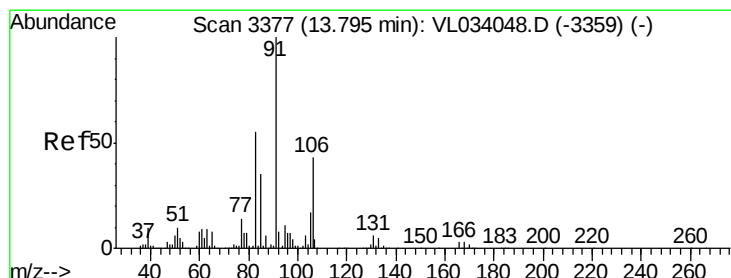
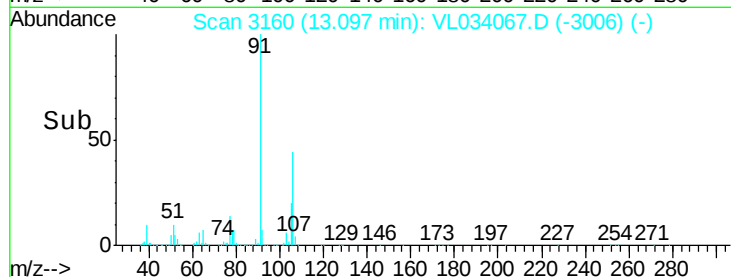
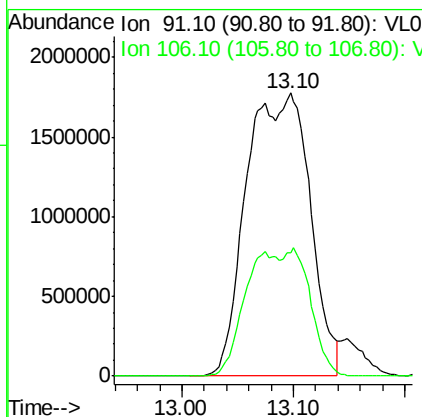
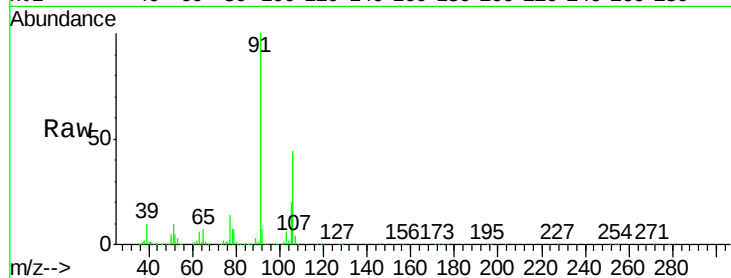
#59
m/p-Xylene
Concen: 19.250 ppbv m
RT: 13.10 min Scan# 3160
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7028291
Ion Ratio Lower Upper
91 100
106 44.4 35.1 52.7

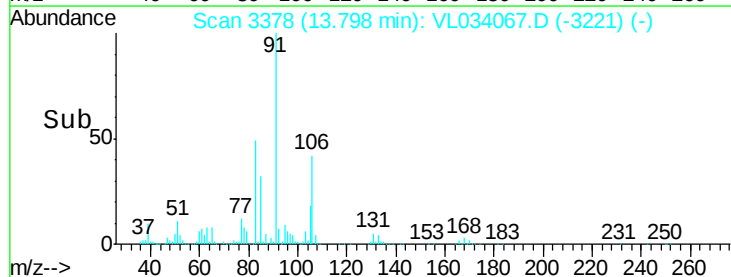
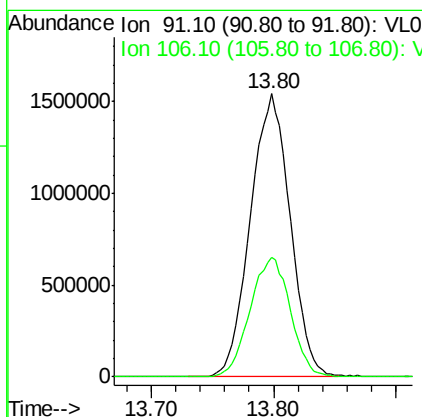
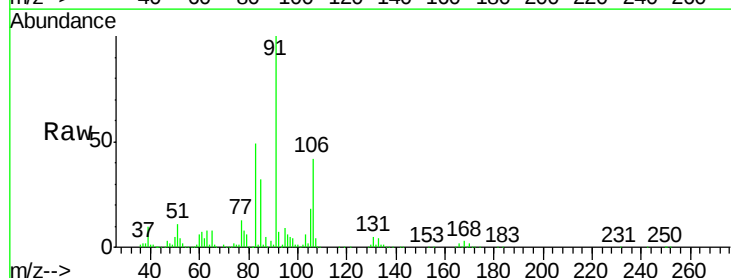
Manual Integrations
APPROVED

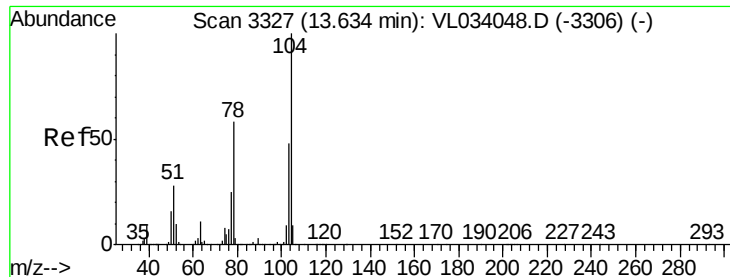
MMdadoda
8/2/2019 9:37:49 AM



#60
o-Xylene
Concen: 9.588 ppbv
RT: 13.80 min Scan# 3378
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion: 91 Resp: 3479200
Ion Ratio Lower Upper
91 100
106 42.9 21.2 63.6





#61

Stvrene

Concen: 10.732 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2571708

Ion Ratio Lower Upper

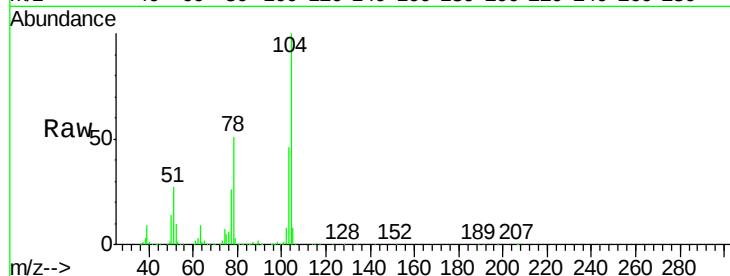
104 100

78 52.9 44.3 66.5

103 48.5 38.8 58.2

Manual Integrations
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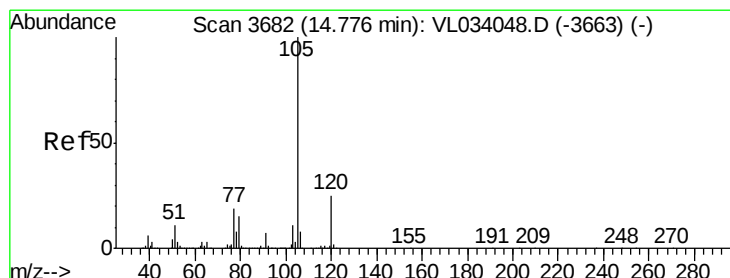
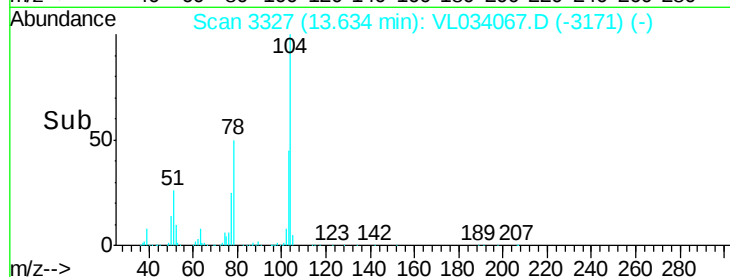
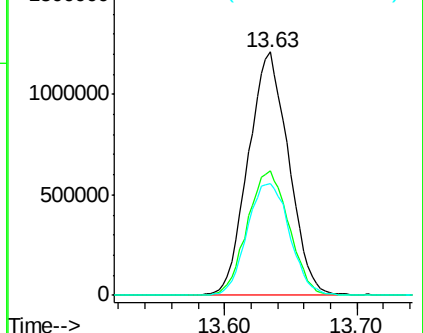
MMDadoda
8/2/2019 9:37:49 AM



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: 9.822 ppbv

RT: 14.77 min Scan# 3681

Delta R.T. -0.00 min

Lab File: VL034067.D

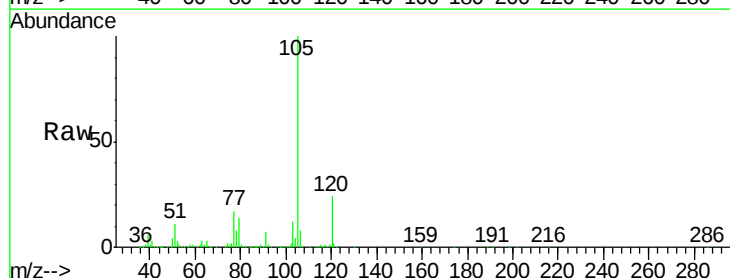
Acq: 30 Jul 2019 18:24

Tgt Ion:105 Resp: 4775046

Ion Ratio Lower Upper

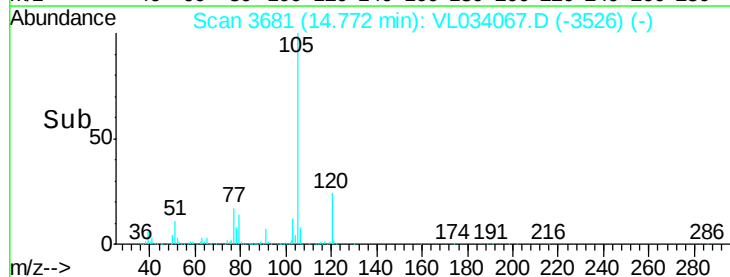
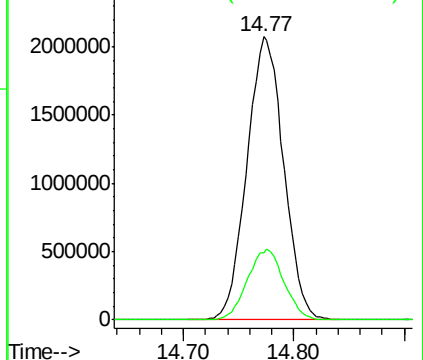
105 100

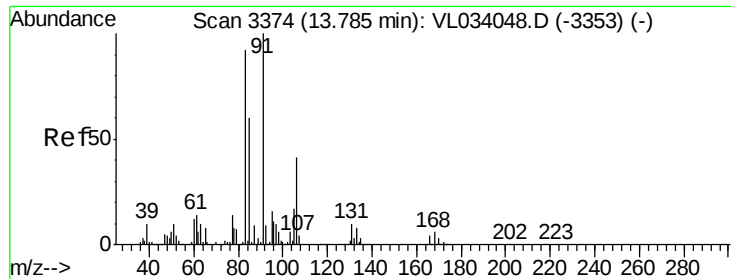
120 25.0 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





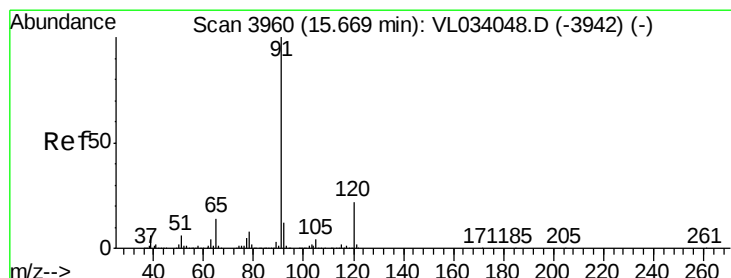
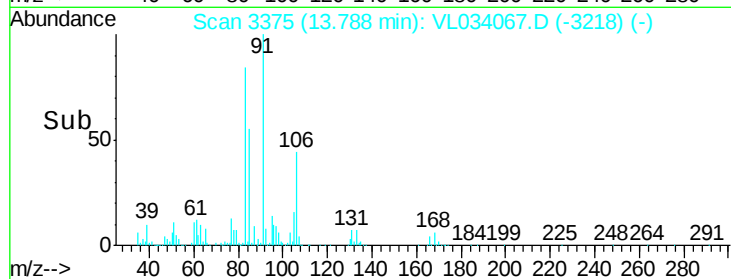
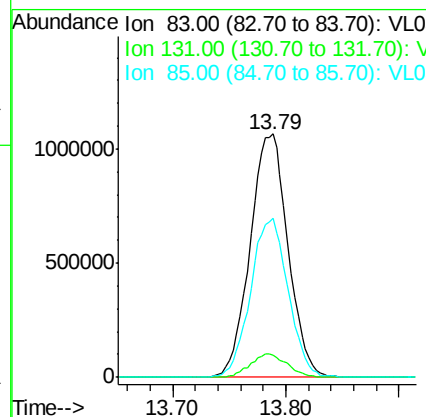
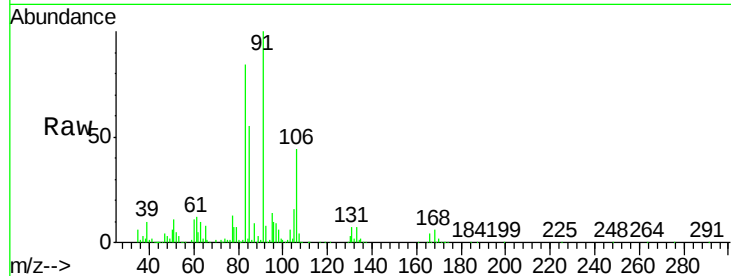
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.900 ppbv
 RT: 13.79 min Scan# 3375
 Delta R.T. 0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2478512
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.8	14.4
85	65.0	32.4	97.0

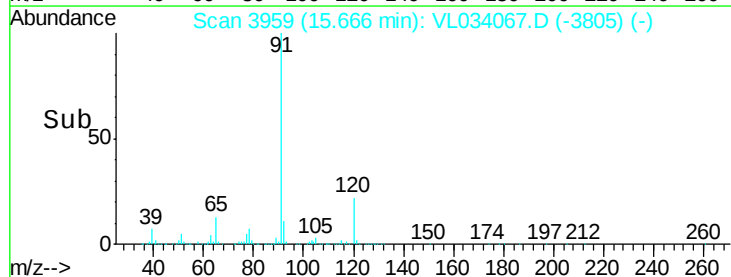
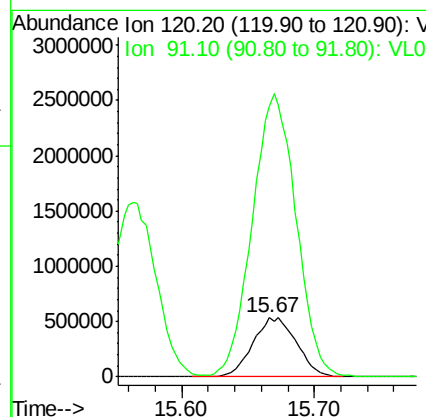
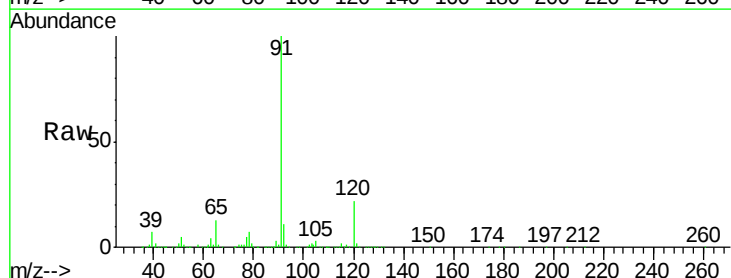
Manual Integrations
 APPROVED

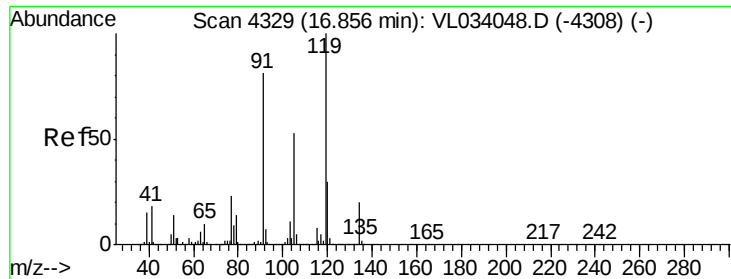
MMDadoda
 8/2/2019 9:37:49 AM



#64
 n-propylbenzene
 Concen: 9.764 ppbv
 RT: 15.67 min Scan# 3959
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Tgt Ion	120	Resp	1229254
Ion Ratio	100	Lower	Upper
120	100		
91	480.1	386.2	579.2





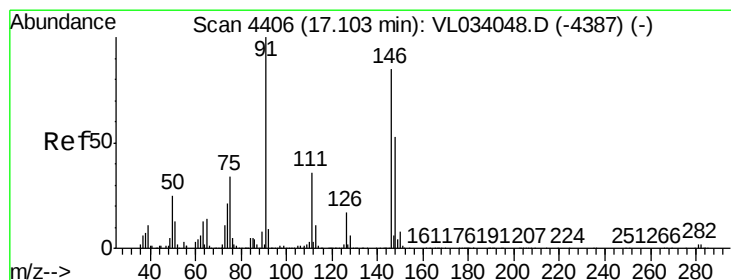
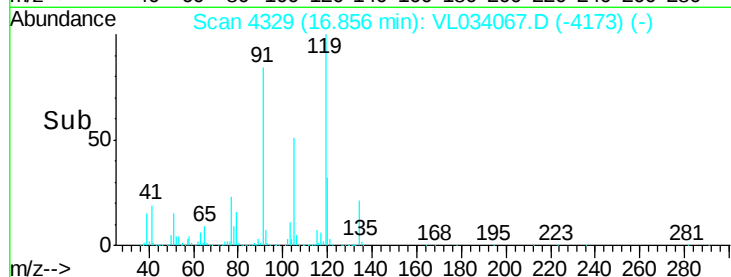
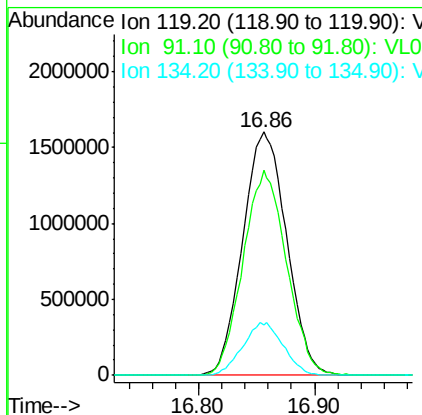
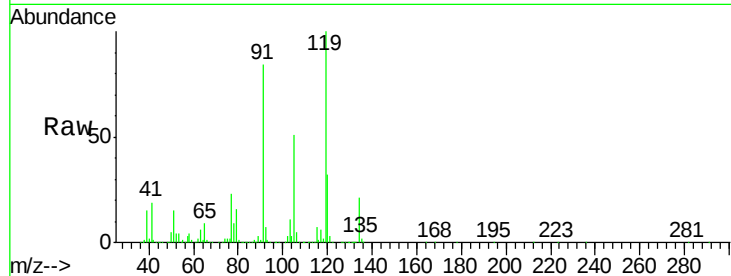
#65
tert-Butylbenzene
Concen: 9.407 ppbv
RT: 16.86 min Scan# 4329
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:119 Resp: 4215989
Ion Ratio Lower Upper
119 100
91 83.5 66.9 100.3
134 20.0 15.5 23.3

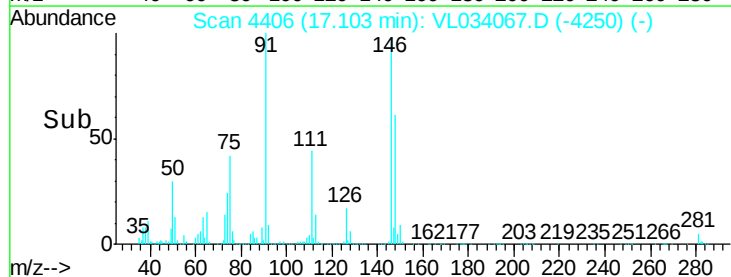
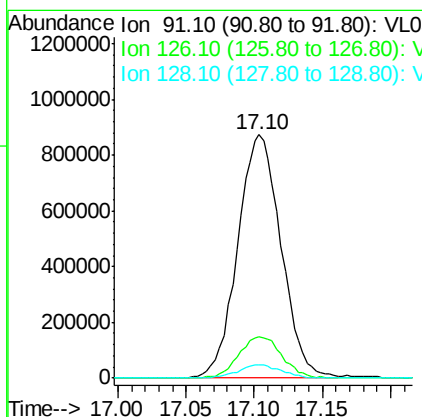
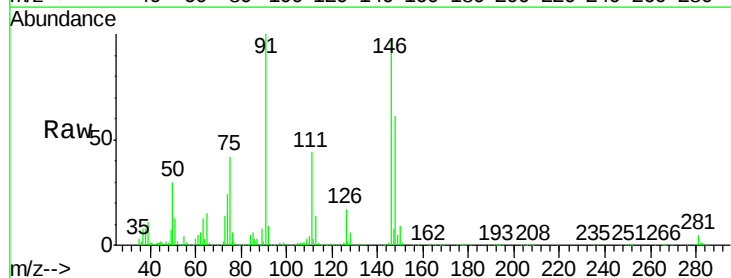
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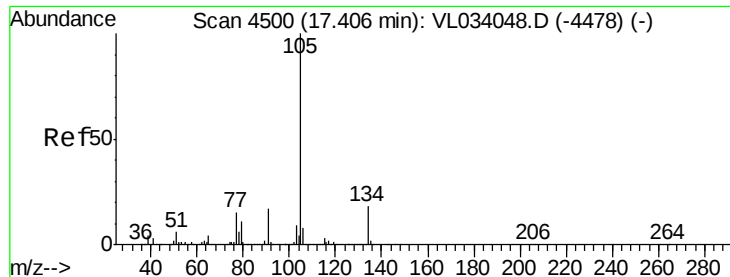
MMdadoda
8/2/2019 9:37:49 AM



#66
Benzyl Chloride
Concen: 8.456 ppbv
RT: 17.10 min Scan# 4406
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 18:24

Tgt Ion: 91 Resp: 1901713
Ion Ratio Lower Upper
91 100
126 17.3 13.5 20.3
128 5.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.492 ppbv

RT: 17.41 min Scan# 4500

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6047034

Ion Ratio Lower Upper

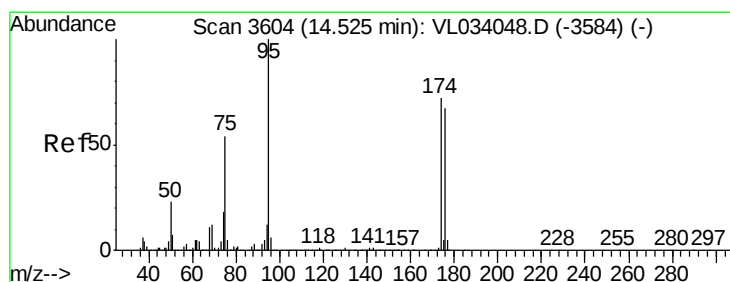
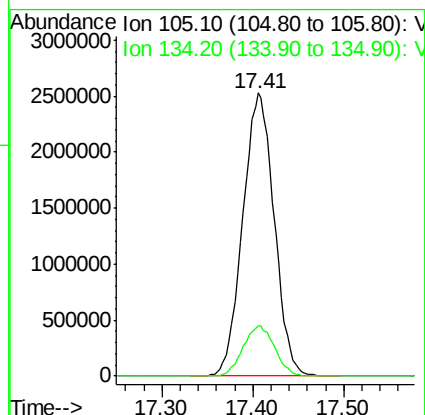
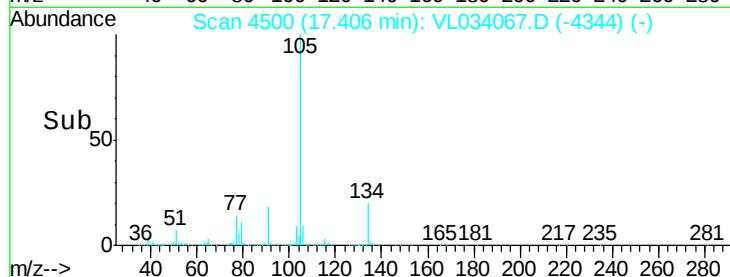
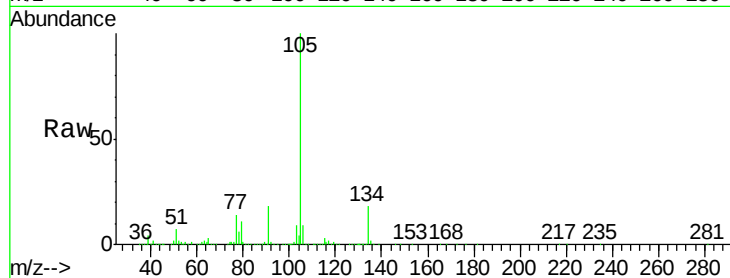
105 100

134 18.0 14.3 21.5

Manual Integrations
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MMdadoda

8/2/2019 9:37:49 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.599 ppbv

RT: 14.52 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

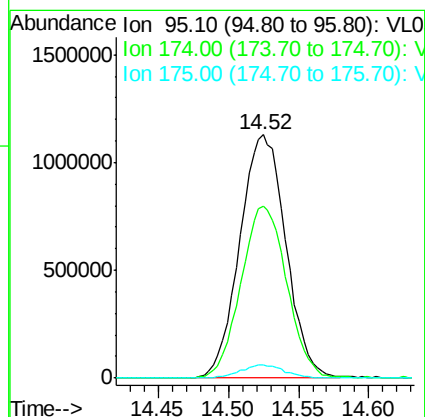
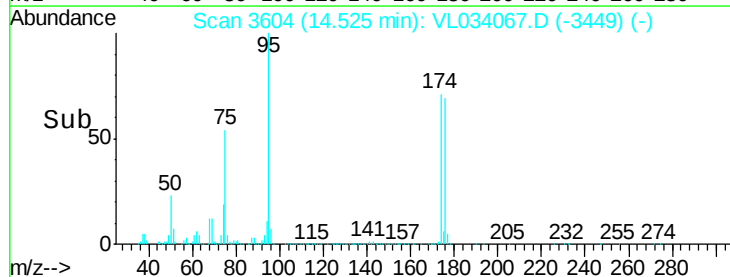
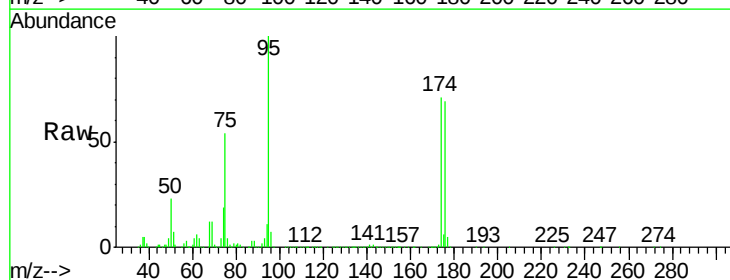
Tgt Ion: 95 Resp: 2575031

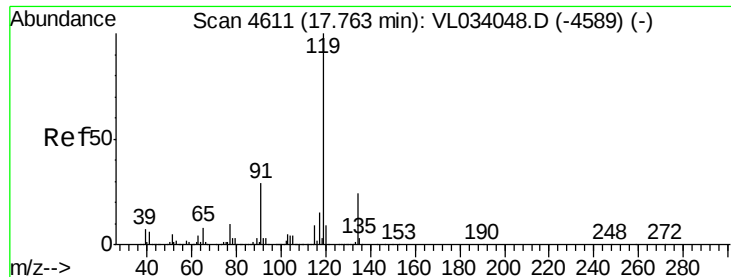
Ion Ratio Lower Upper

95 100

174 70.9 57.6 86.4

175 5.2 4.1 6.1





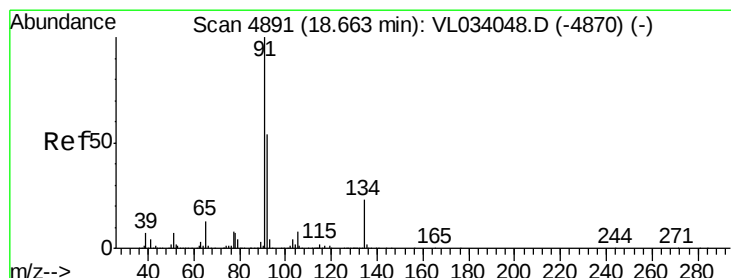
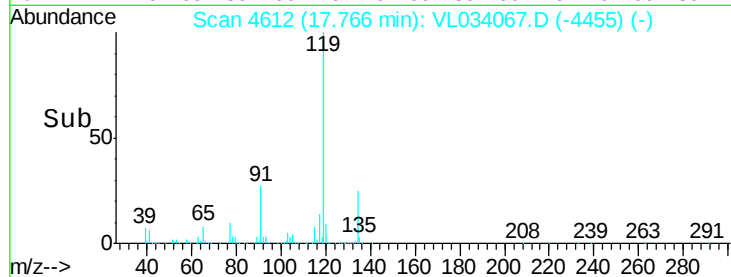
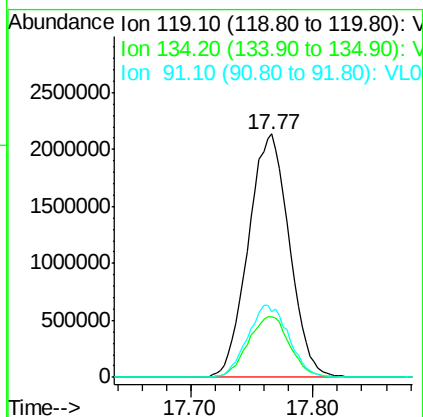
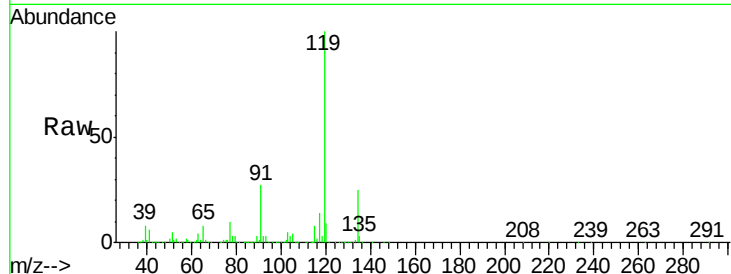
#69
 p-Isopropyltoluene
 Concen: 9.561 ppbv
 RT: 17.77 min Scan# 4612
 Delta R.T. 0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.1	30.1
91	29.7	23.6	35.4

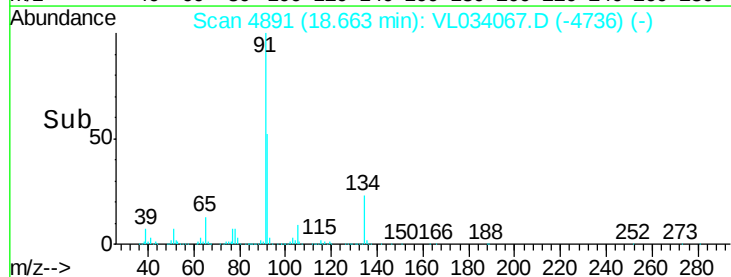
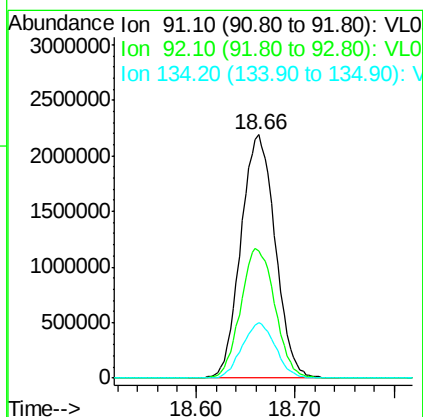
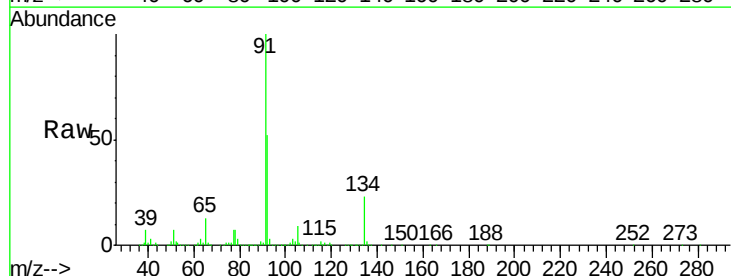
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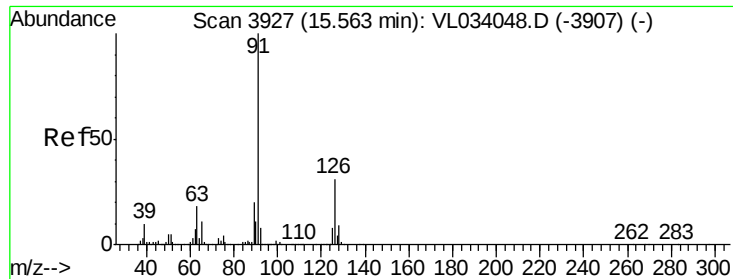
MMDadoda
 8/2/2019 9:37:49 AM



#70
 n-Butylbenzene
 Concen: 9.594 ppbv
 RT: 18.66 min Scan# 4891
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.6	64.0
134	22.2	17.7	26.5





#71

2-Chlorotoluene

Concen: 10.441 ppbv

RT: 15.56 min Scan# 3927

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3685245

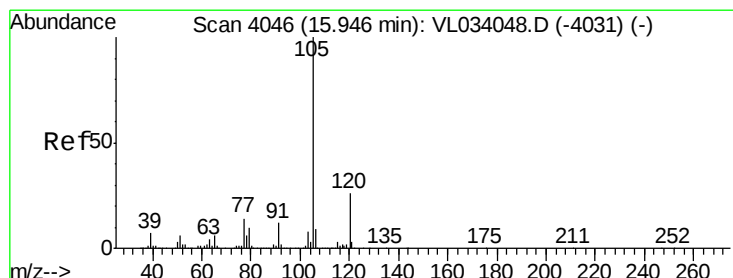
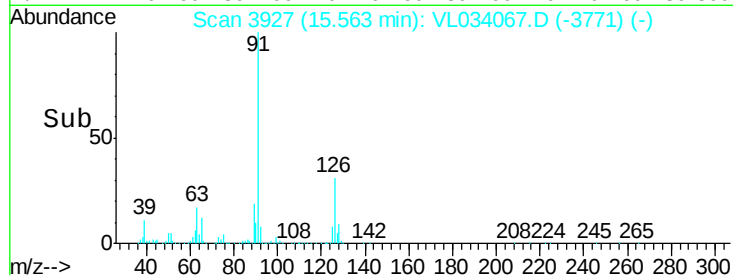
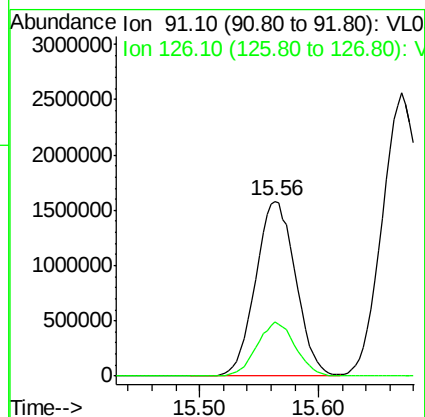
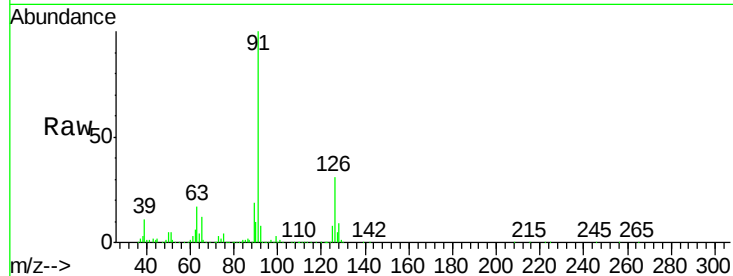
Ion Ratio Lower Upper

91 100

126 29.7 12.0 48.2

Manual Integrations
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8/2/2019 9:37:49 AM



#72

4-Ethyltoluene

Concen: 10.020 ppbv

RT: 15.95 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Tgt Ion: 105 Resp: 4111576

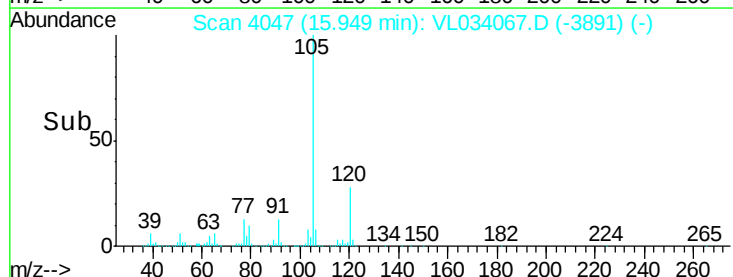
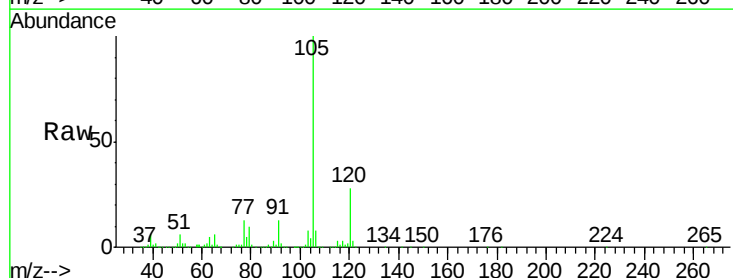
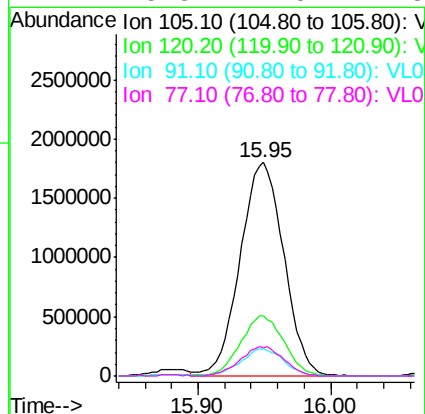
Ion Ratio Lower Upper

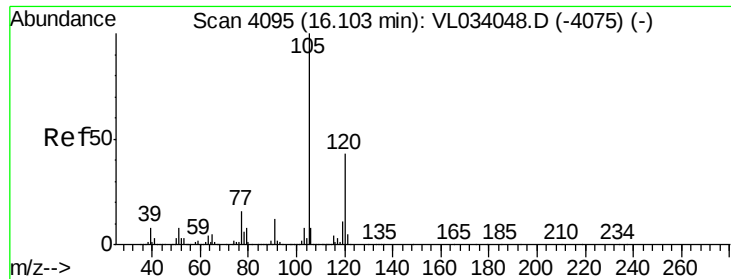
105 100

120 28.2 23.0 34.4

91 12.6 10.6 16.0

77 13.8 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 9.406 ppbv

RT: 16.11 min Scan# 4096

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3927999

Ion Ratio Lower Upper

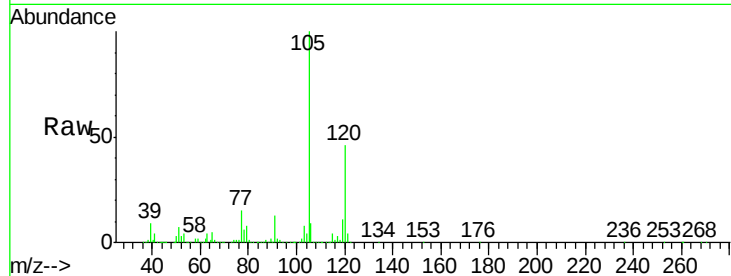
105 100

120 46.2 34.7 52.1

Manual Integrations
APPROVED

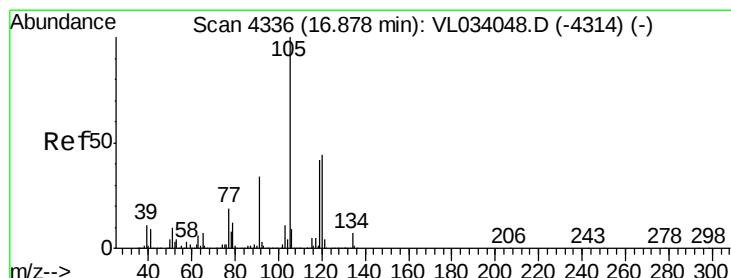
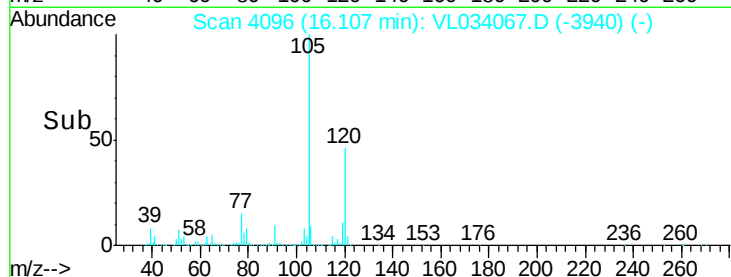
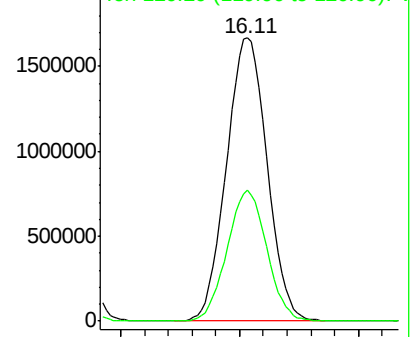
MMdadoda

8/2/2019 9:37:49 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.788 ppbv

RT: 16.87 min Scan# 4334

Delta R.T. -0.01 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Tgt Ion:105 Resp: 4031640

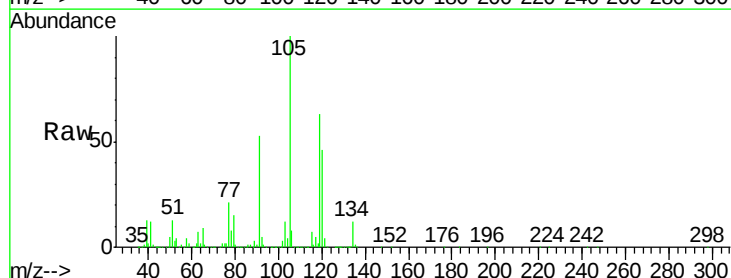
Ion Ratio Lower Upper

105 100

120 45.6 35.6 53.4

91 52.9 28.0 42.0#

77 21.3 15.2 22.8

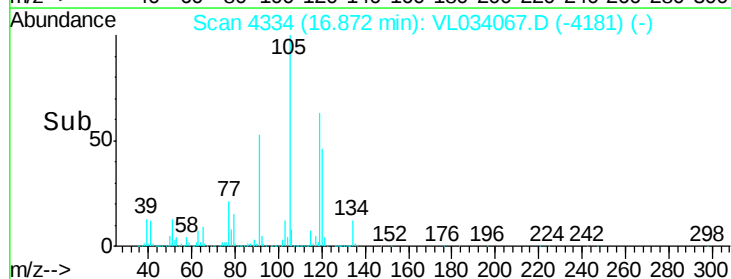
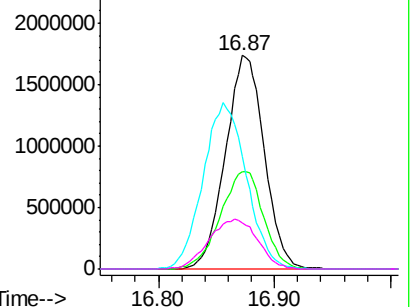


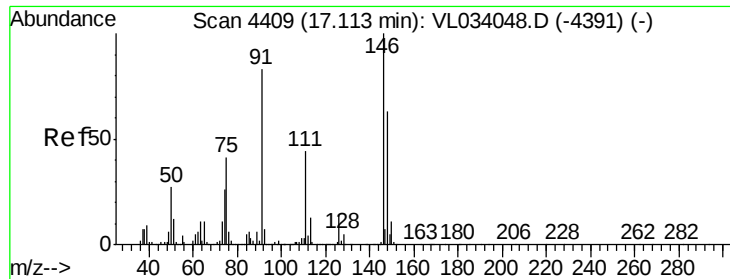
Abundance Ion 105.10 (104.80 to 105.80): V

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





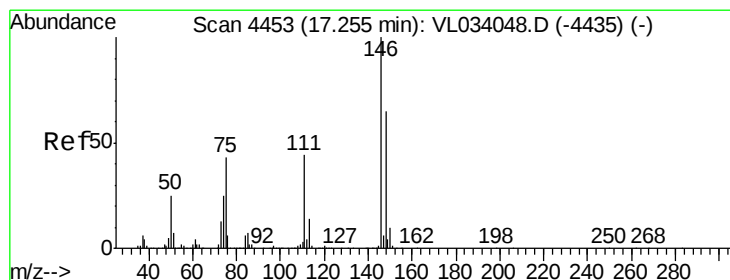
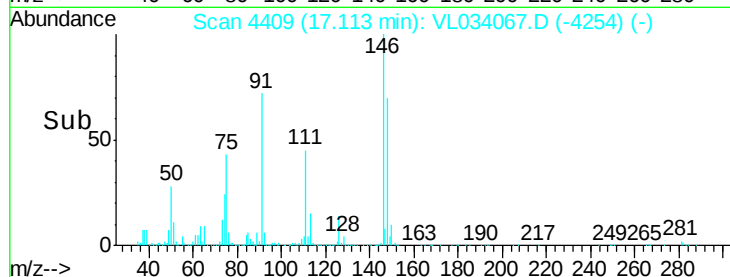
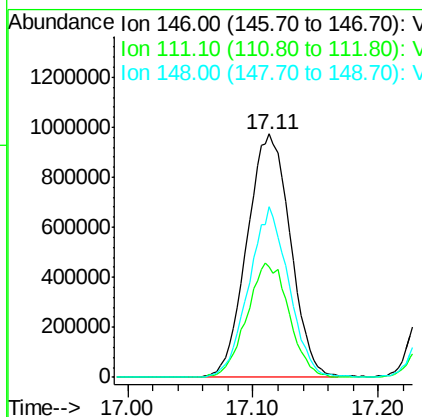
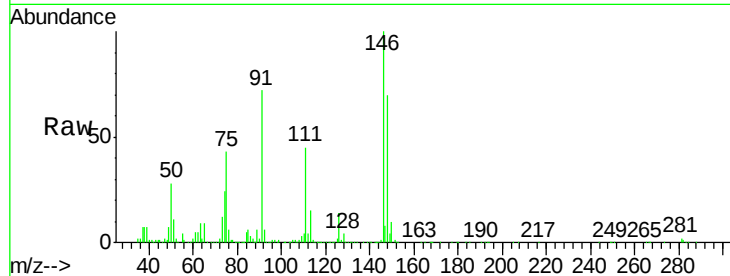
#75
 1,3-Dichlorobenzene
 Concen: 8.165 ppbv
 RT: 17.11 min Scan# 4409
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2336821
 Ion Ratio Lower Upper
 146 100
 111 45.8 22.1 66.5
 148 64.7 32.0 96.2

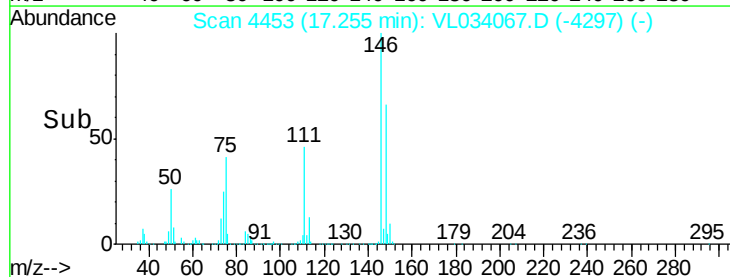
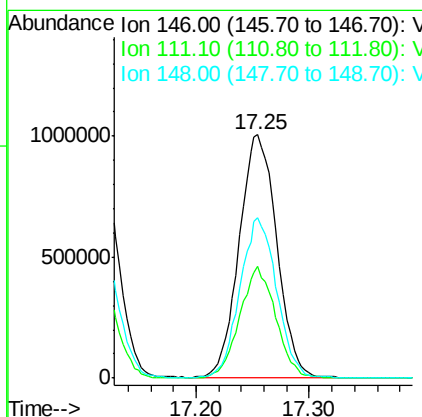
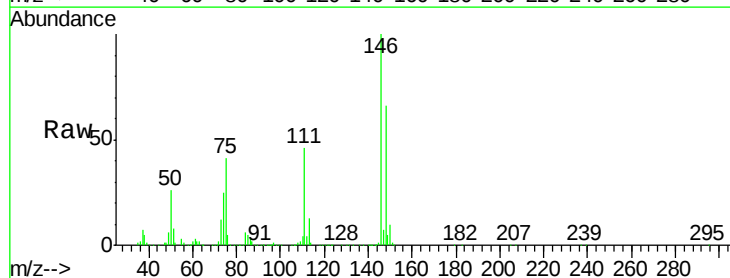
Manual Integrations
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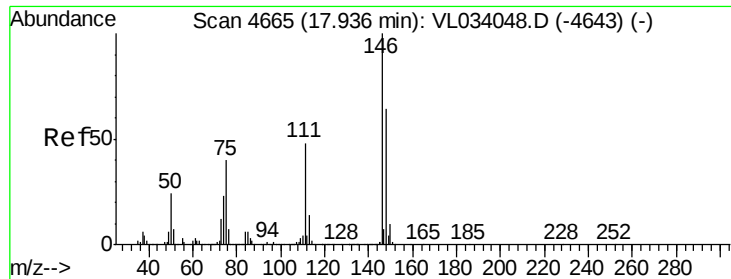
MMdadoda
 8/2/2019 9:37:49 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.617 ppbv
 RT: 17.25 min Scan# 4453
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Tgt Ion:146 Resp: 2327766
 Ion Ratio Lower Upper
 146 100
 111 44.0 21.8 65.4
 148 64.6 32.3 96.9





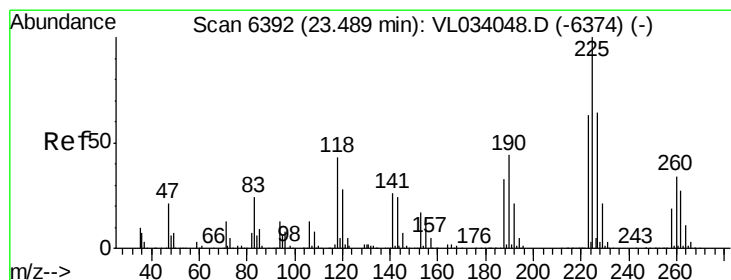
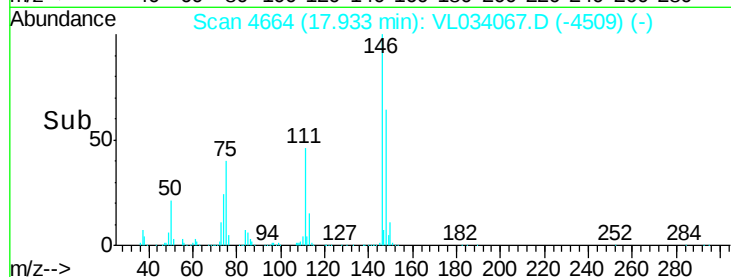
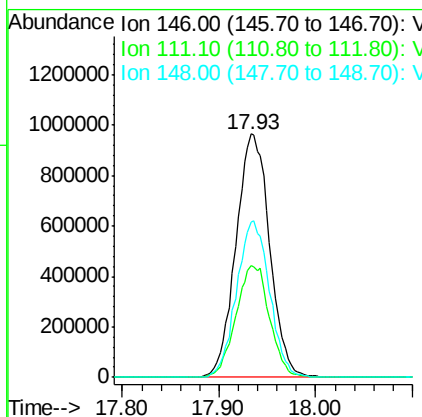
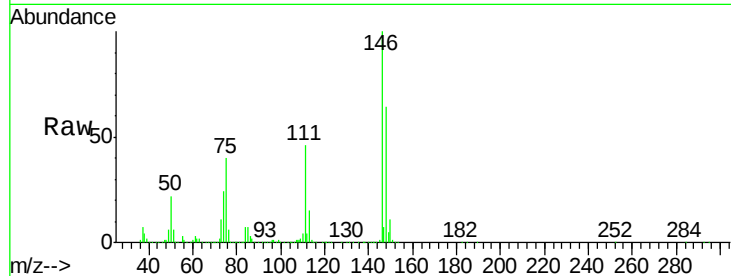
#77
 1,2-Dichlorobenzene
 Concen: 8.848 ppbv
 RT: 17.93 min Scan# 4664
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2331471
 Ion Ratio Lower Upper
 146 100
 111 46.0 23.4 70.2
 148 63.2 32.3 96.9

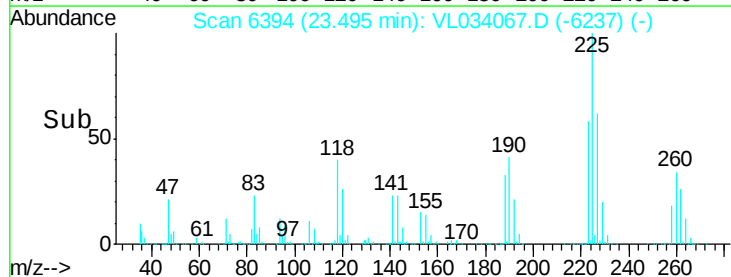
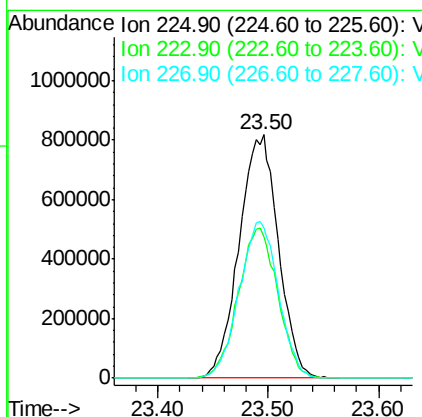
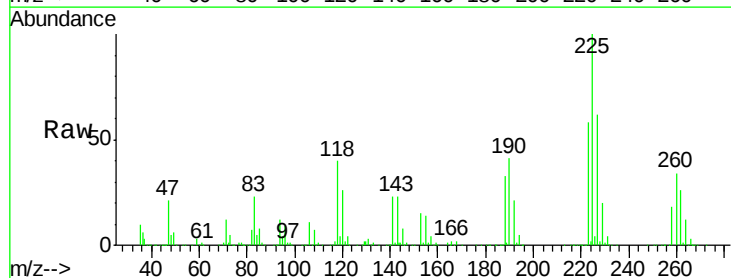
Manual Integrations
 APPROVED

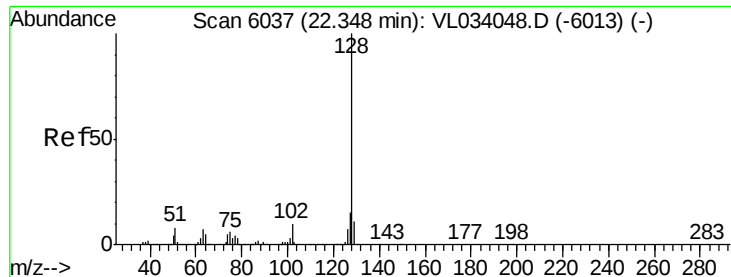
MMdadoda
 8/2/2019 9:37:49 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.305 ppbv
 RT: 23.50 min Scan# 6394
 Delta R.T. 0.01 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Tgt Ion:225 Resp: 2013230
 Ion Ratio Lower Upper
 225 100
 223 62.3 49.6 74.4
 227 64.1 51.4 77.2





#79

Naphthalene

Concen: 9.083 ppbv

RT: 22.34 min Scan# 6036

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3632009

Ion Ratio Lower Upper

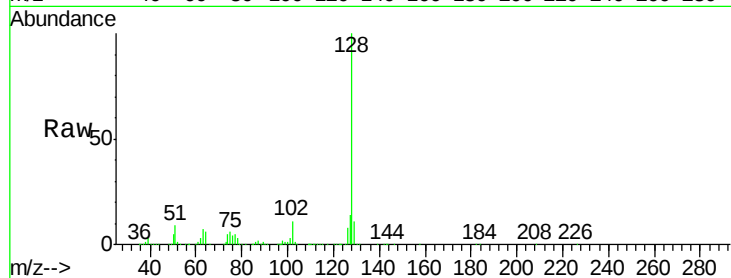
128 100

127 13.8 11.8 17.6

129 10.6 9.1 13.7

Manual Integrations
APPROVED

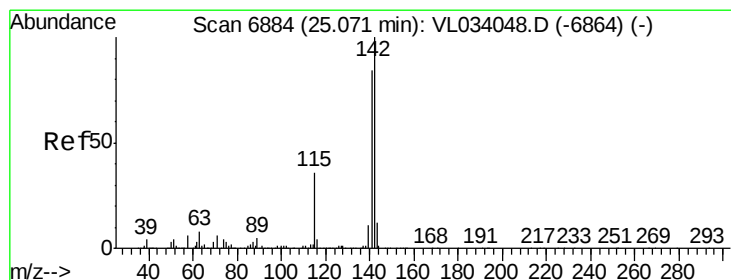
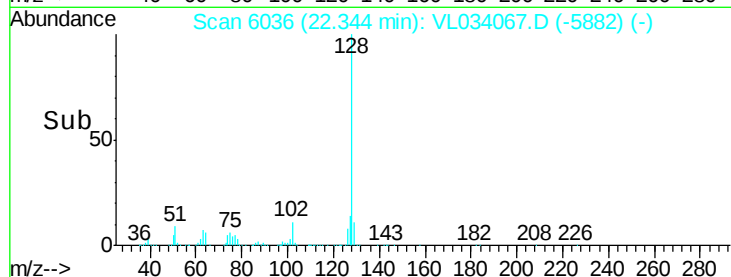
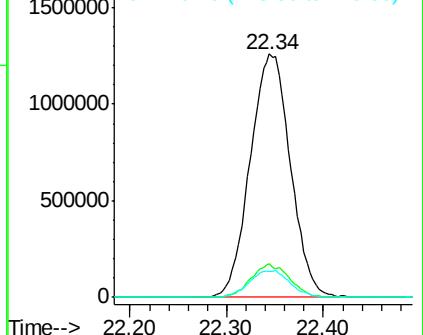
MMdadoda
8/2/2019 9:37:49 AM



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: 8.340 ppbv

RT: 25.07 min Scan# 6883

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 18:24

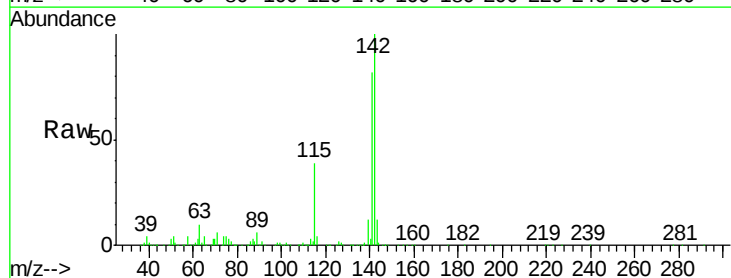
Tgt Ion:142 Resp: 1162876

Ion Ratio Lower Upper

142 100

141 85.3 67.6 101.4

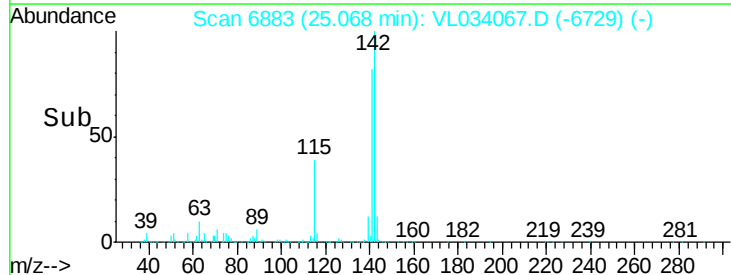
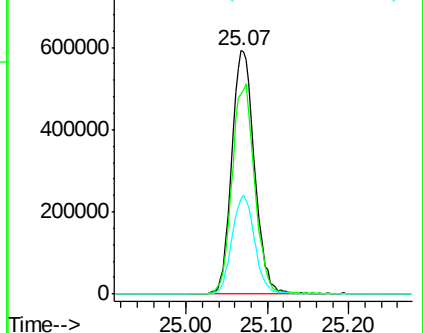
115 40.4 29.8 44.6

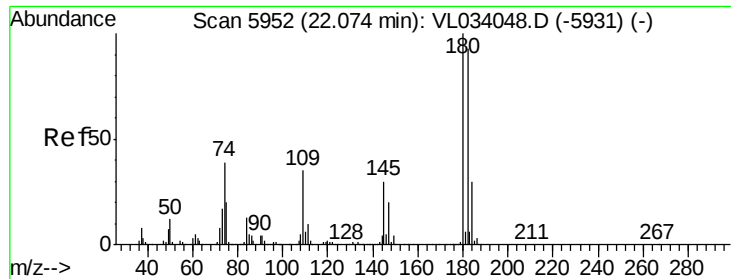


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 8.110 ppbv
 RT: 22.07 min Scan# 5951
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 18:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.5	114.7
184	31.4	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 9:37:49 AM

