

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\
 Data File : VL034756.D
 Acq On : 29 Feb 2020 3:44
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:02:23 PM

Quant Time: Mar 02 08:47:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	938600	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2006794	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2217590m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1719506	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1790839	12.095	ppbv	93
3) Chlorodifluoromethane	2.95	51	1154704	11.400	ppbv	99
4) Chloromethane	3.11	50	653746	11.530	ppbv	97
5) Vinyl Chloride	3.23	62	623838	11.215	ppbv	92
6) Bromomethane	3.45	94	371621	11.403	ppbv	99
7) Chloroethane	3.53	64	228651	11.072	ppbv	95
8) Dichlorotetrafluoroethane	3.16	85	1403196	10.714	ppbv	99
9) Propene	2.98	41	515042	12.164	ppbv	98
10) Heptane	8.14	43	1325013	12.158	ppbv	98
11) Trichlorofluoromethane	3.93	101	1463540	11.285	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1017457	11.130	ppbv	98
13) Ethanol	3.58	45	110328	8.248	ppbv	99
14) Bromoethene	3.72	108	451088	11.827	ppbv	98
15) Acetone	3.83	43	1226165	11.464	ppbv	99
16) 1,3-Butadiene	3.30	39	582401	11.763	ppbv	98
17) tert-Butyl alcohol	4.28	59	866771	10.576	ppbv	99
18) 1,1-Dichloroethene	4.27	96	462926	11.280	ppbv	97
19) Isopropyl Alcohol	3.95	45	619030	9.717	ppbv	100
20) Methylene Chloride	4.33	84	413414	10.393	ppbv	97
21) Allyl Chloride	4.40	41	848312	11.988	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	468214	11.700	ppbv	99
23) Vinyl Acetate	5.07	43	1910002	13.136	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1301850	11.211	ppbv	99
25) Ethyl Acetate	5.68	43	2237176	11.816	ppbv	100
26) Hexane	5.69	57	990208	11.347	ppbv	97
27) Carbon Disulfide	4.54	76	1216669	12.283	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1570356	12.597	ppbv	100
29) Chloroform	5.76	83	1535492	11.044	ppbv	96
30) Cyclohexane	7.14	84	824844	12.197	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1037172	12.078	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	1507629	11.612	ppbv	100
34) 2-Butanone	5.24	43	1493575	11.824	ppbv	99
35) Carbon Tetrachloride	7.03	117	1522022	11.325	ppbv	98
36) Benzene	6.90	78	1977086	11.407	ppbv	96
37) 1,2-Dichloroethane	6.31	62	1248057	11.423	ppbv	100
38) Trichloroethene	7.85	130	724552	10.845	ppbv	97
39) 1,2-Dichloropropane	7.64	63	796291	11.548	ppbv	98
40) 1,4-Dioxane	7.85	88	250915	10.700	ppbv #	1
41) Tetrahydrofuran	6.05	42	842082	12.630	ppbv	100
42) Bromodichloromethane	7.81	83	1651078	11.543	ppbv	100
43) Methyl Methacrylate	8.03	69	902354	12.378	ppbv	98

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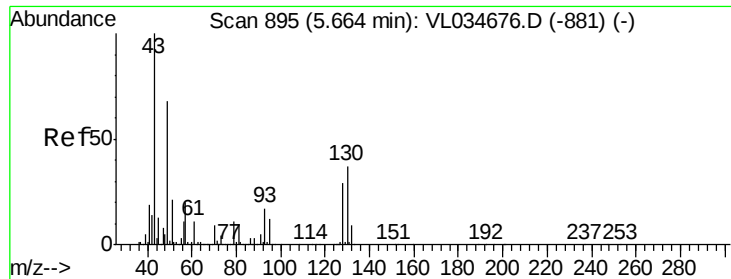
Manual Integrations
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Quant Time: Mar 02 08:47:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3416149	11.277	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1071003	13.463	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	1251304	13.115	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	792188	11.198	ppbv	96
48) Dibromochloromethane	10.34	129	1319496	11.995	ppbv	100
49) Bromoform	13.09	173	1127548	11.822	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2181976	12.196	ppbv	100
51) 2-Hexanone	10.16	43	1806180	12.829	ppbv #	98
52) Tetrachloroethene	11.26	164	682501	10.743	ppbv	97
53) Toluene	9.83	91	2248667	12.198	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1209387	11.459	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	975235	10.326	ppbv	99
57) Chlorobenzene	12.19	112	1639605	10.003	ppbv	99
58) Ethyl Benzene	12.74	91	2986546	11.131	ppbv	99
59) m/p-Xylene	13.03	91	4890450m	20.899	ppbv	
60) o-Xylene	13.73	91	2399651	10.334	ppbv	99
61) Styrene	13.57	104	1721228	11.539	ppbv	99
62) Isopropylbenzene	14.71	105	3502865	10.341	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	1685923	9.315	ppbv	99
64) n-propylbenzene	15.61	120	908558	10.404	ppbv	95
65) tert-Butylbenzene	16.79	119	3018347	10.319	ppbv	99
66) Benzyl Chloride	17.04	91	1369601	12.553	ppbv	98
67) sec-Butylbenzene	17.34	105	4357906	10.354	ppbv	98
69) p-Isopropyltoluene	17.70	119	3602778	10.398	ppbv	99
70) n-Butylbenzene	18.60	91	3897105	10.329	ppbv	99
71) 2-Chlorotoluene	15.50	91	2724516	10.385	ppbv	100
72) 4-Ethyltoluene	15.89	105	2818363	10.905	ppbv	98
73) 1,3,5-Trimethylbenzene	16.04	105	2670975	10.742	ppbv	97
74) 1,2,4-Trimethylbenzene	16.81	105	2786545	10.148	ppbv	99
75) 1,3-Dichlorobenzene	17.05	146	1577735	9.954	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1594571	10.055	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1562544	10.197	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	1407678	10.550	ppbv	99
79) Naphthalene	22.27	128	2781672	11.511	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	1088282	14.601	ppbv	96
81) 1,2,4-Trichlorobenzene	22.00	180	1586007m	10.997	ppbv	

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



#1

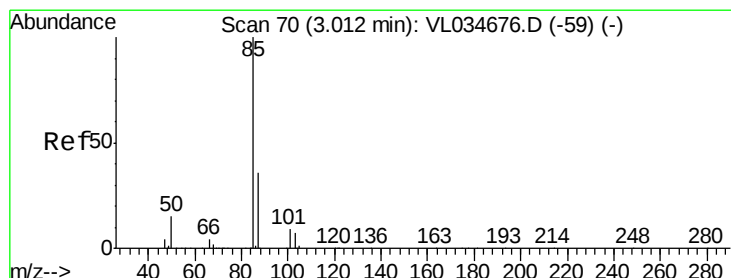
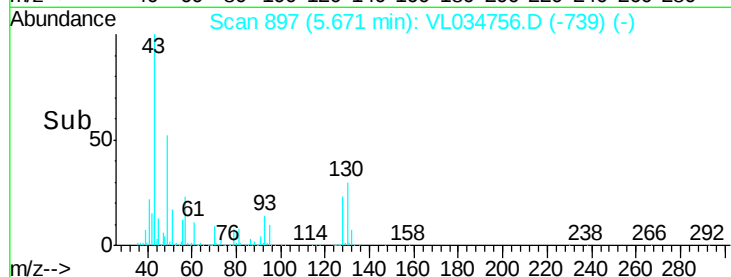
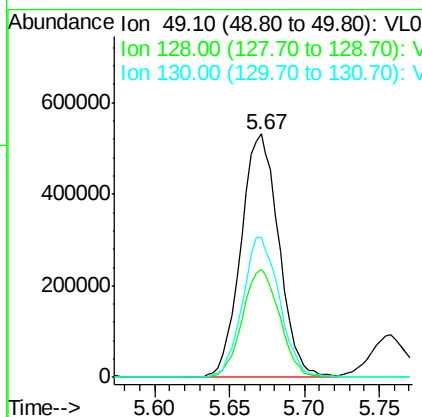
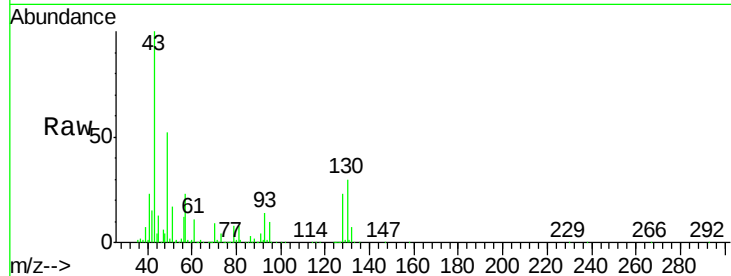
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	44.0	21.6	65.0
130	56.3	27.7	83.1

Manual Integrations
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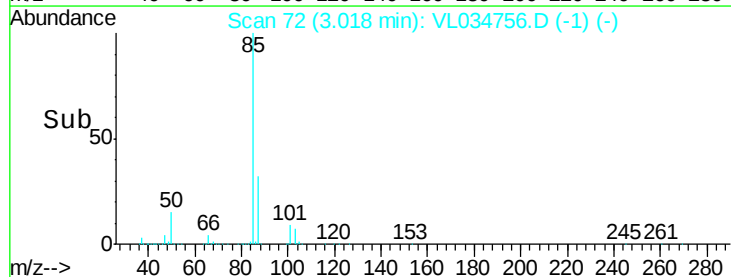
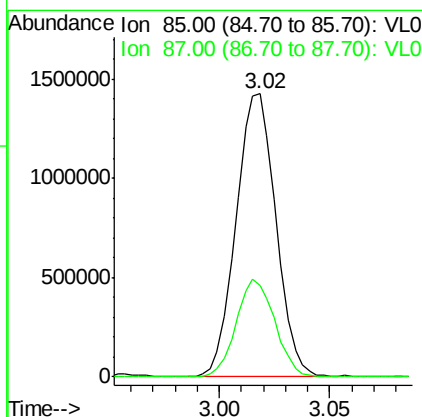
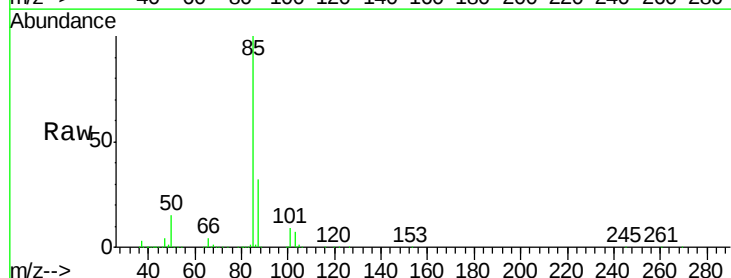
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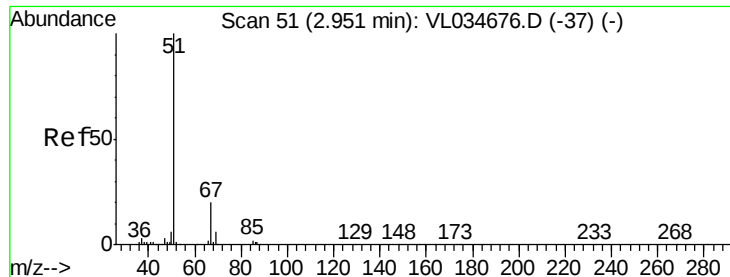


#2

Dichlorodifluoromethane
 Concen: 12.095 ppbv
 RT: 3.02 min Scan# 72
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.4	29.2	43.8





#3

Chlorodifluoromethane

Concen: 11.400 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Tot Ion: 51 Resp: 1154704

Ion Ratio Lower Upper

51 100

67 18.8 15.5 23.3

Instrument :

MSVOA_L

ClientSampleId :

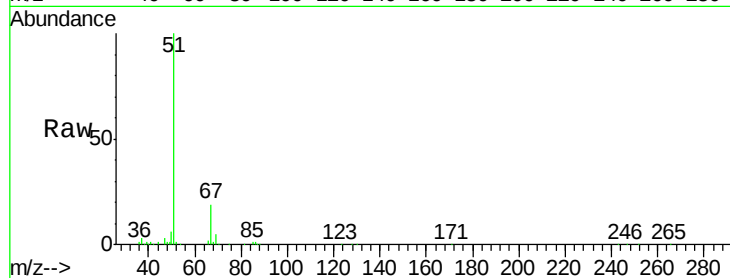
VSTDCCC010EC

Manual Integrations

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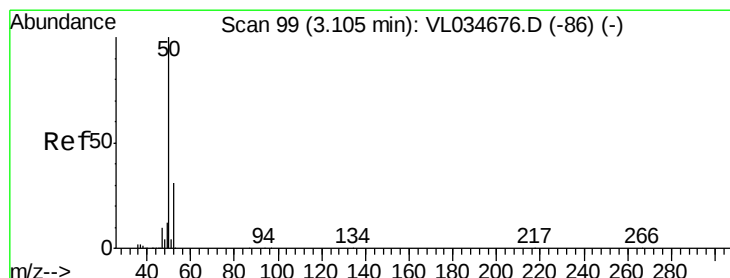
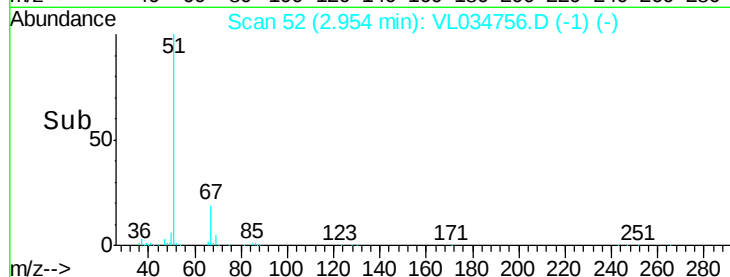
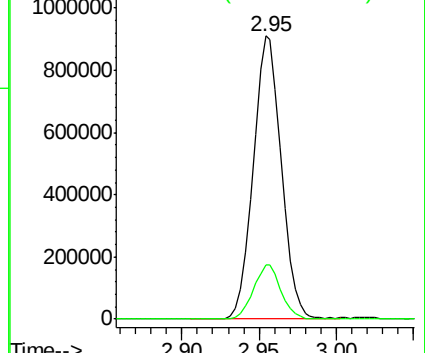
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 11.530 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.00 min

Lab File: VL034756.D

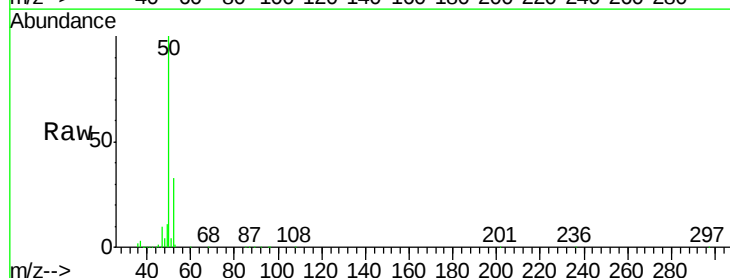
Acq: 29 Feb 2020 3:44

Tgt Ion: 50 Resp: 653746

Ion Ratio Lower Upper

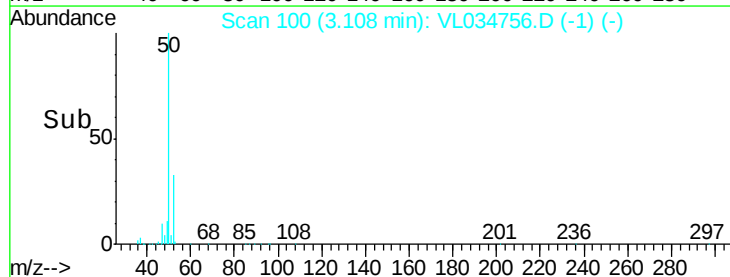
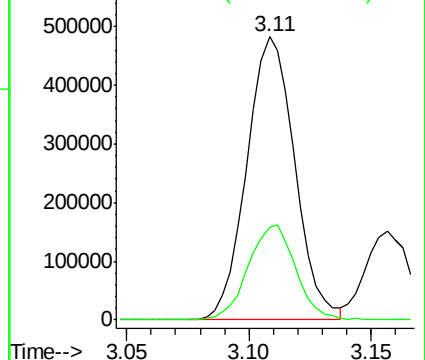
50 100

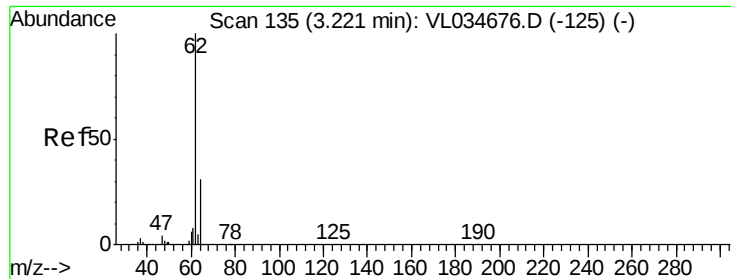
52 33.0 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.215 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 623838

Ion Ratio Lower Upper

62 100

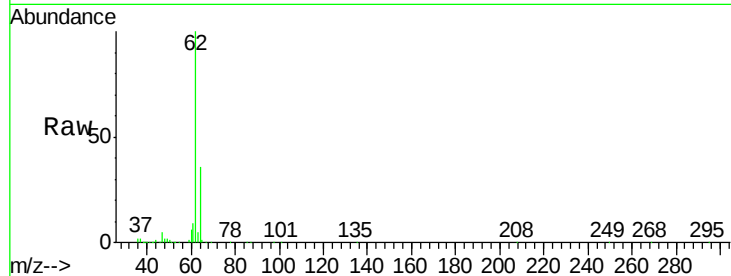
64 35.6 24.7 37.1

Manual Integrations

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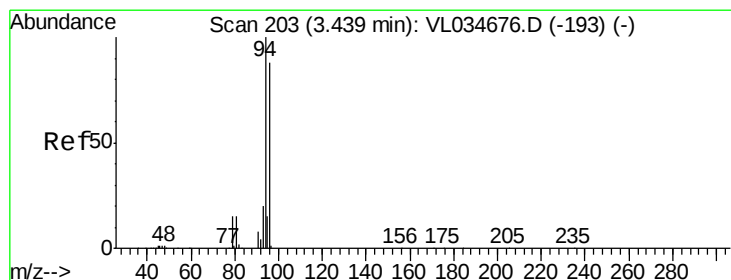
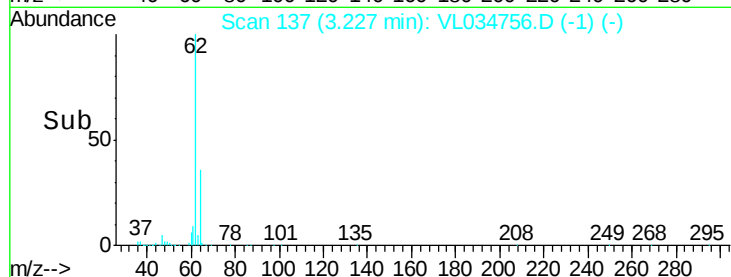
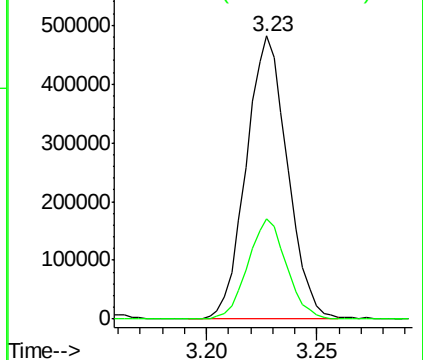
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 11.403 ppbv

RT: 3.45 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL034756.D

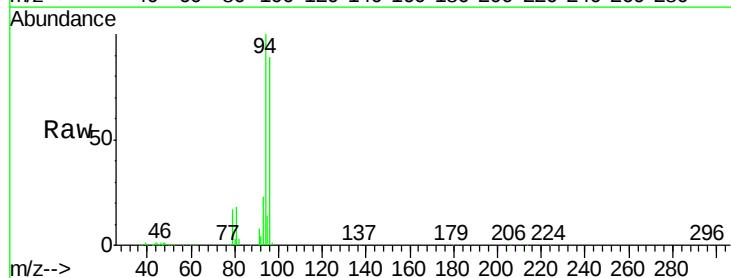
Acq: 29 Feb 2020 3:44

Tgt Ion: 94 Resp: 371621

Ion Ratio Lower Upper

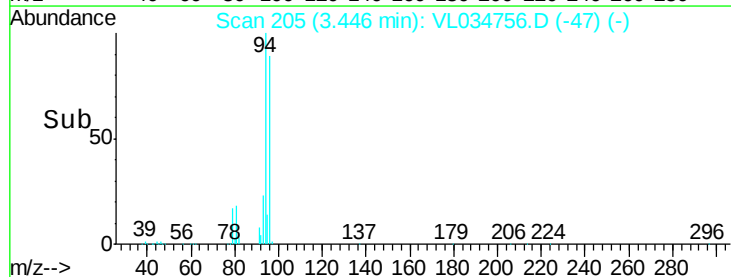
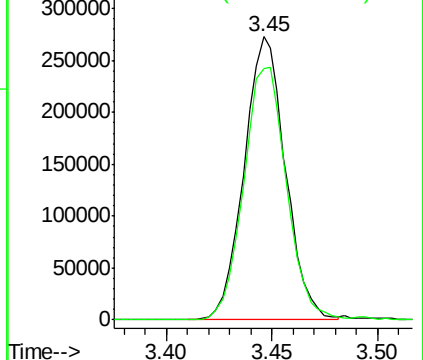
94 100

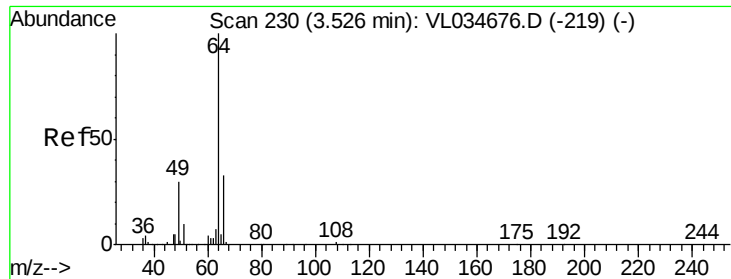
96 88.7 70.5 105.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 11.072 ppbv

RT: 3.53 min Scan# 232

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 228651

Ion Ratio Lower Upper

64 100

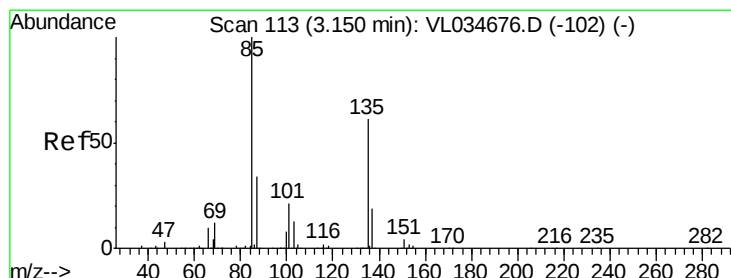
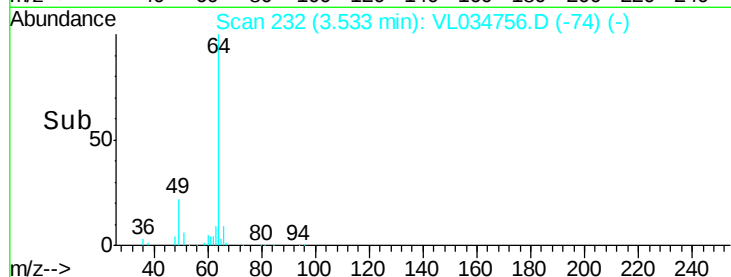
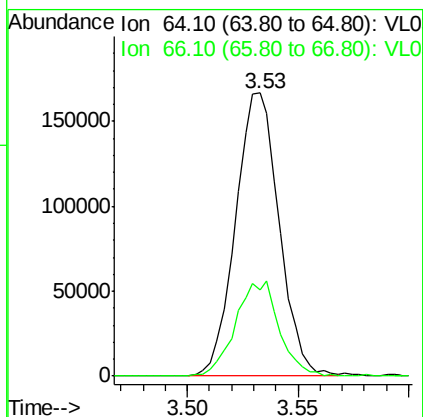
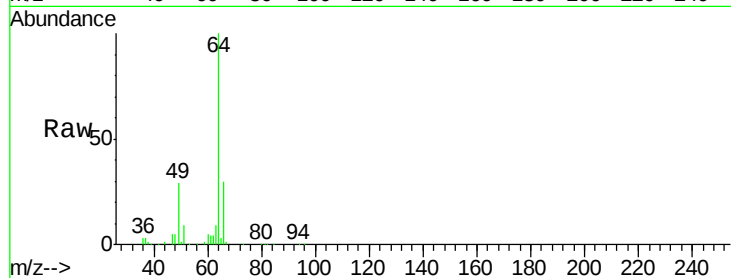
66 30.5 26.7 40.1

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#8

Dichlorotetrafluoroethane

Concen: 10.714 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL034756.D

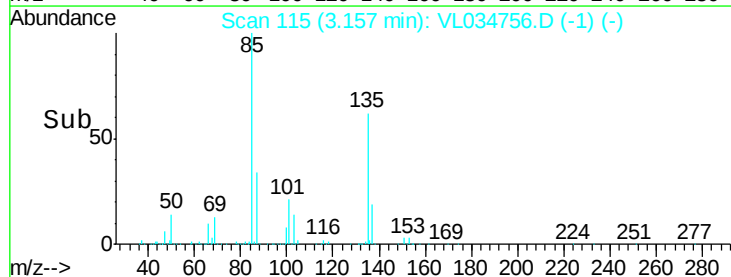
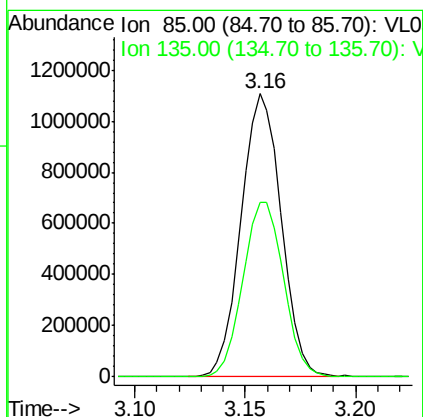
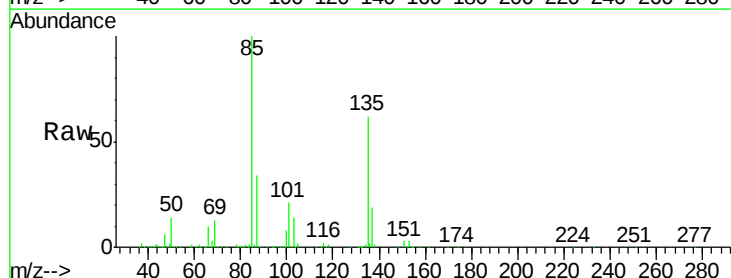
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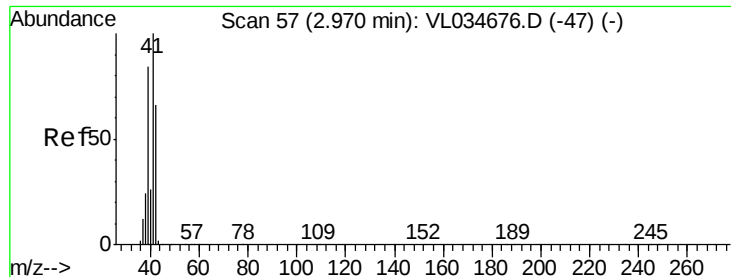
Tgt Ion: 85 Resp: 1403196

Ion Ratio Lower Upper

85 100

135 62.9 49.8 74.6





#9

Propene

Concen: 12.164 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 515042

Ion Ratio Lower Upper

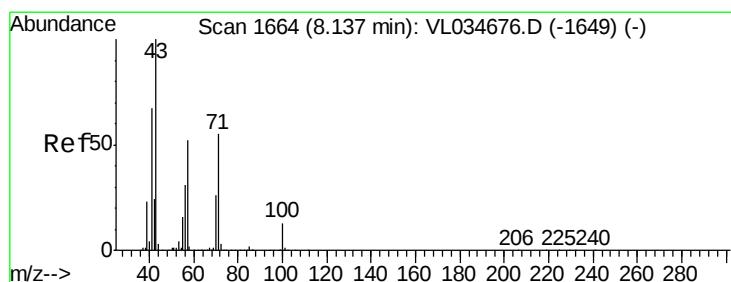
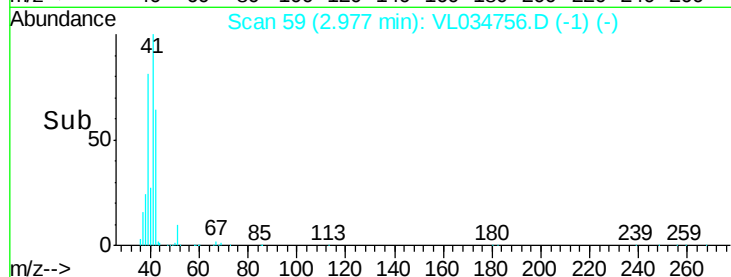
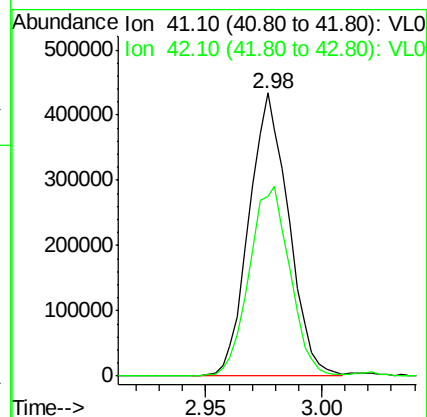
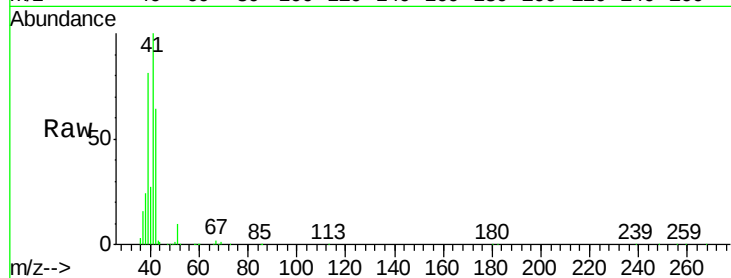
41 100

42 69.8 54.9 82.3

Manual Integrations
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#10

Heptane

Concen: 12.158 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.01 min

Lab File: VL034756.D

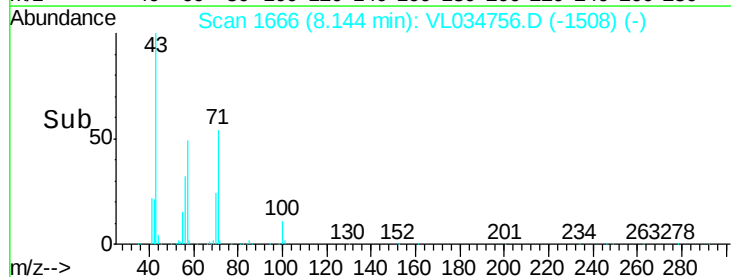
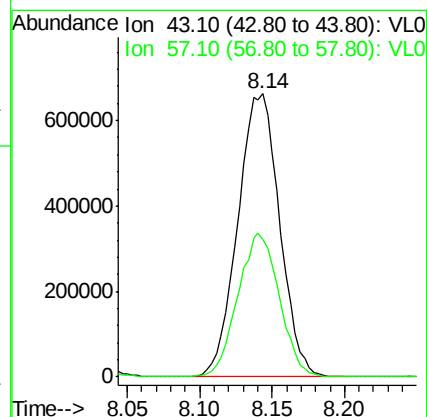
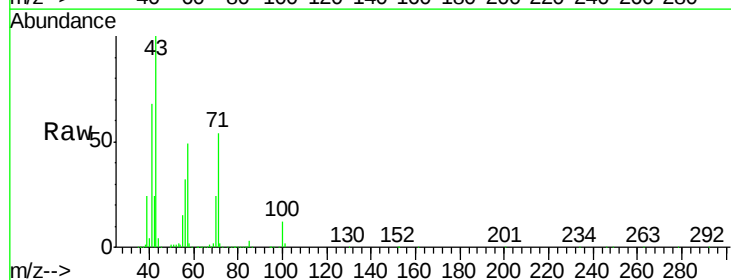
Acq: 29 Feb 2020 3:44

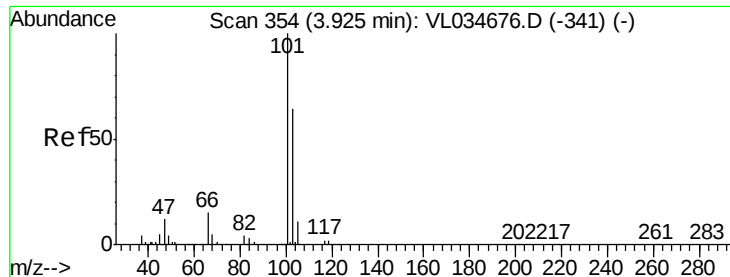
Tgt Ion: 43 Resp: 1325013

Ion Ratio Lower Upper

43 100

57 50.3 41.0 61.6





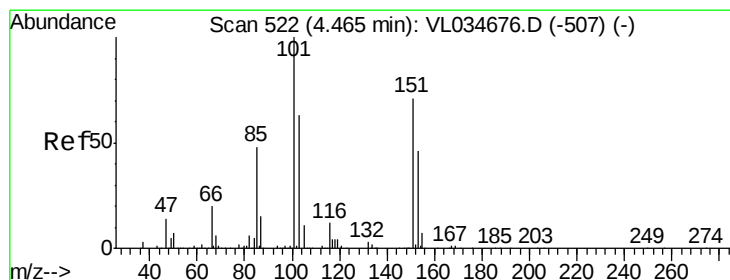
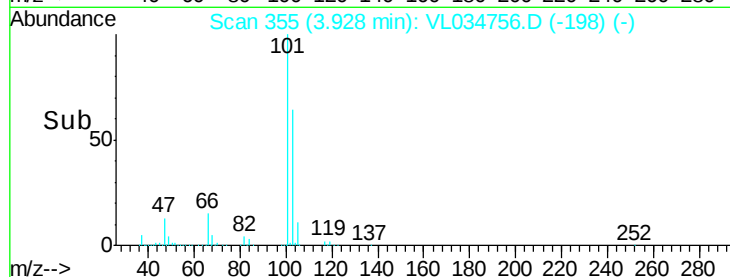
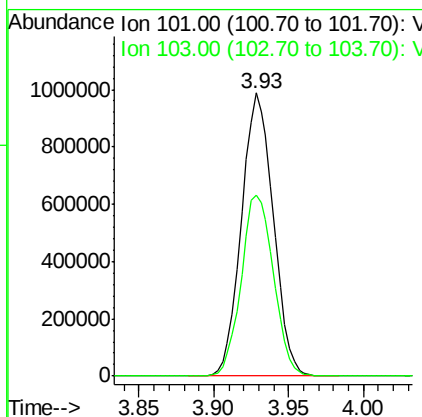
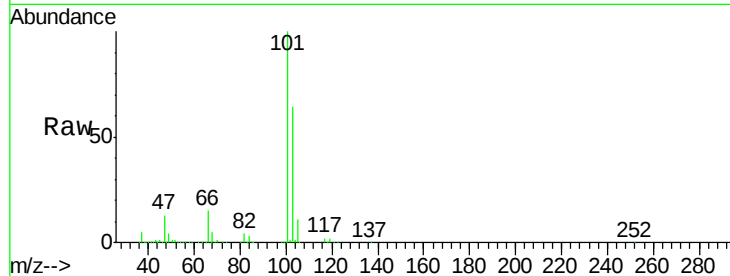
#11
 Trichlorofluoromethane
 Concen: 11.285 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1463540
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.2 76.8

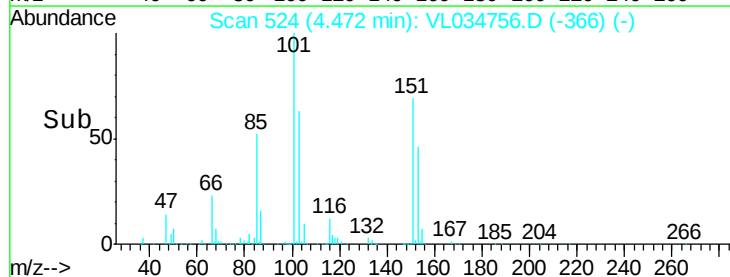
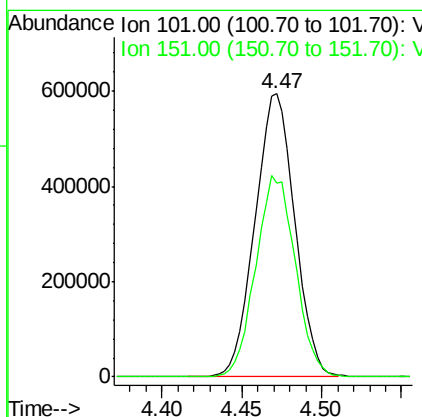
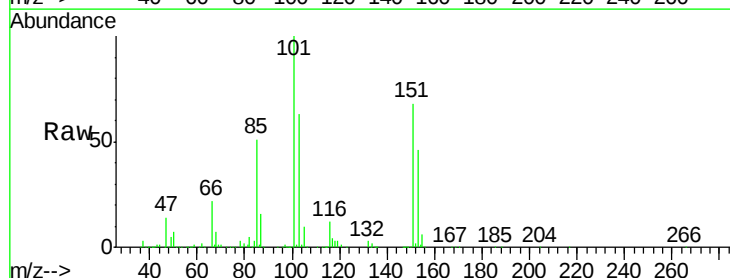
Manual Integrations
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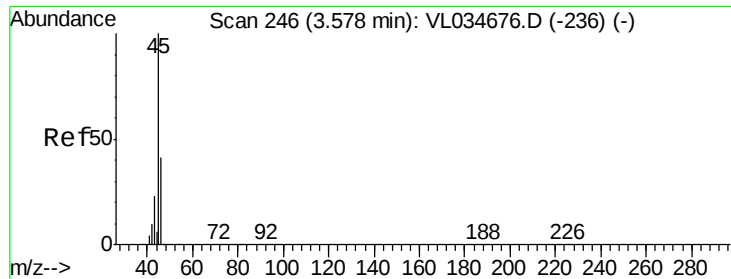
MMDadoda
 3/2/2020 1:02:23 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.130 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion:101 Resp: 1017457
 Ion Ratio Lower Upper
 101 100
 151 71.0 55.8 83.6





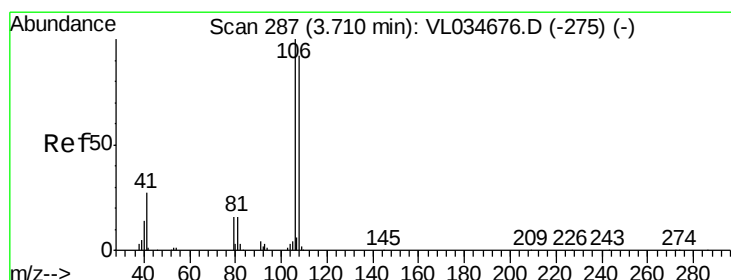
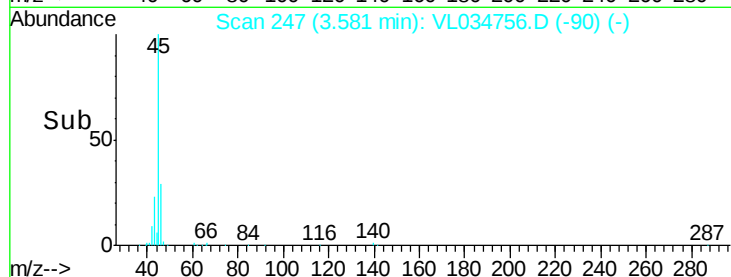
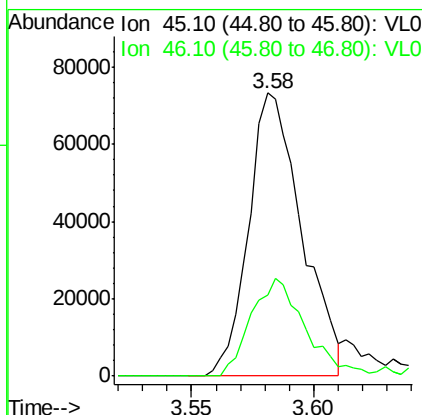
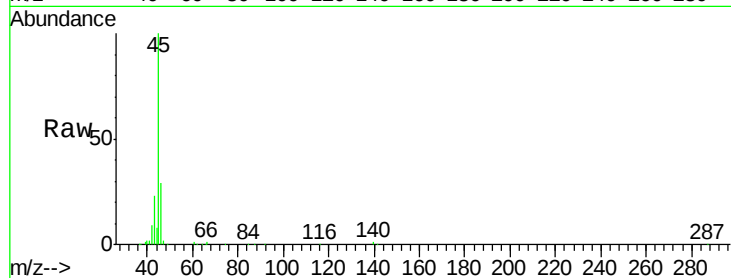
#13
Ethanol
Concen: 8.248 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 110328
Ion Ratio Lower Upper
45 100
46 37.9 15.4 61.4

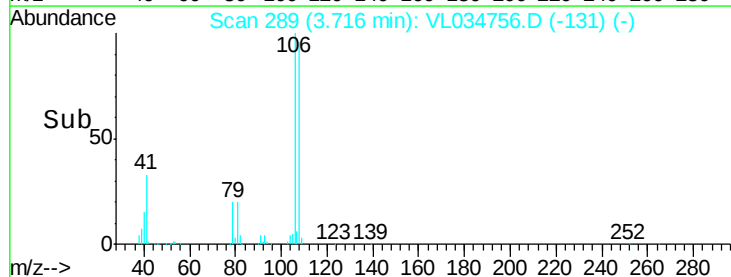
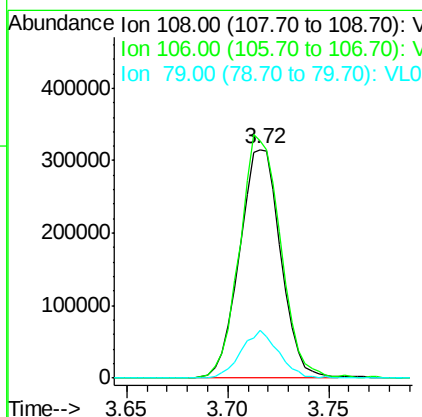
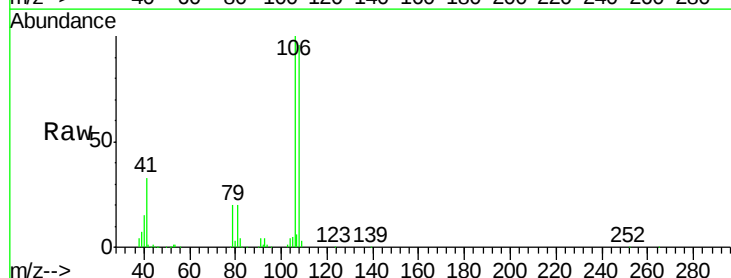
Manual Integrations
APPROVED

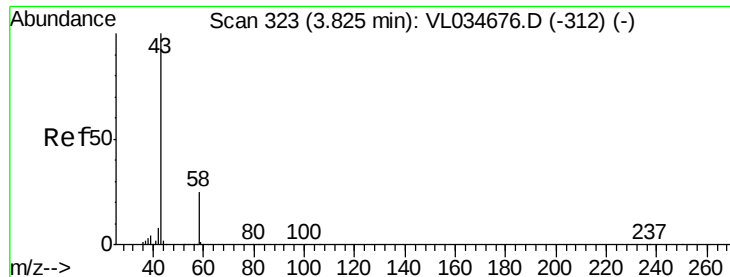
MMDadoda
3/2/2020 1:02:23 PM



#14
Bromoethene
Concen: 11.827 ppbv
RT: 3.72 min Scan# 289
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion: 108 Resp: 451088
Ion Ratio Lower Upper
108 100
106 106.5 86.7 130.1
79 19.4 15.0 22.6





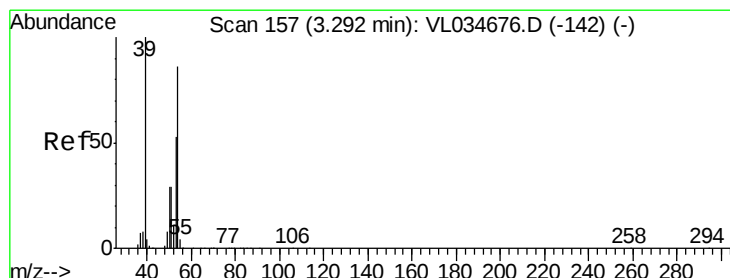
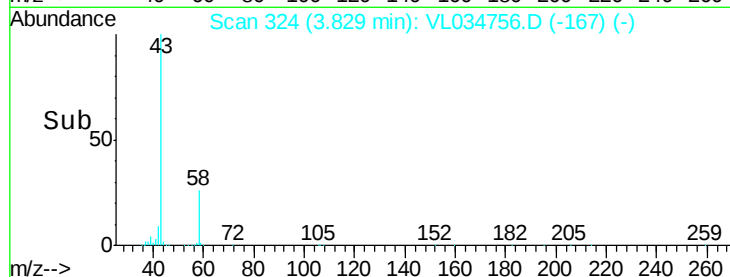
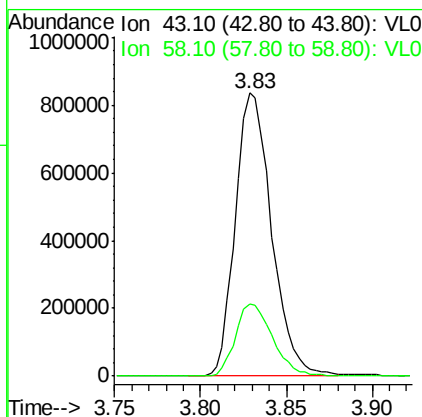
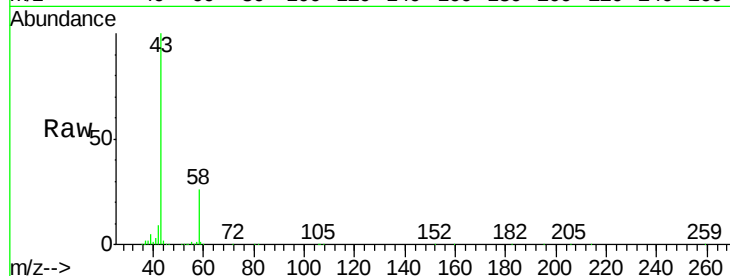
#15
Acetone
Concen: 11.464 ppbv
RT: 3.83 min Scan# 324
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1226165
Ion Ratio Lower Upper
43 100
58 26.4 21.4 32.0

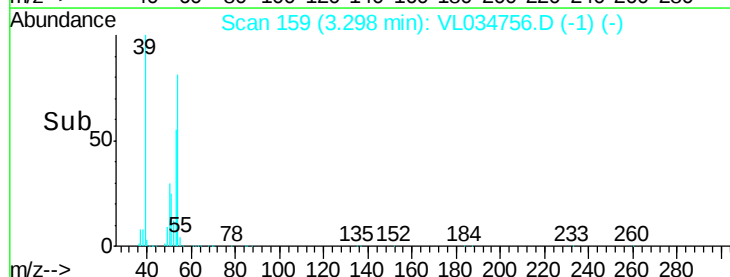
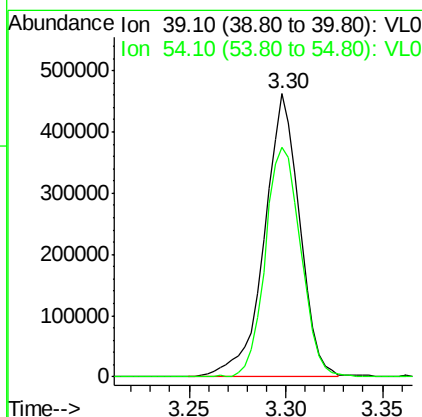
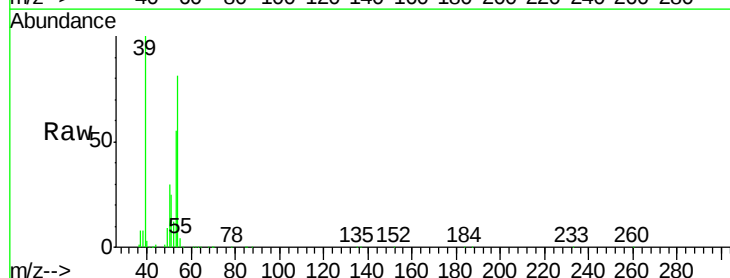
Manual Integrations
APPROVED

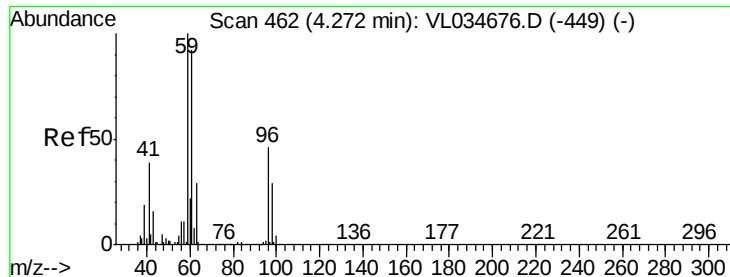
MMDadoda
3/2/2020 1:02:23 PM



#16
1,3-Butadiene
Concen: 11.763 ppbv
RT: 3.30 min Scan# 159
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion: 39 Resp: 582401
Ion Ratio Lower Upper
39 100
54 82.1 67.0 100.6





#17

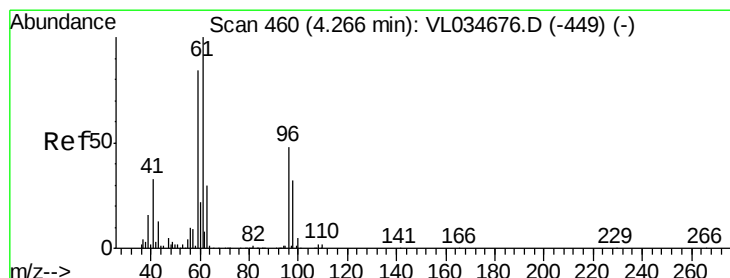
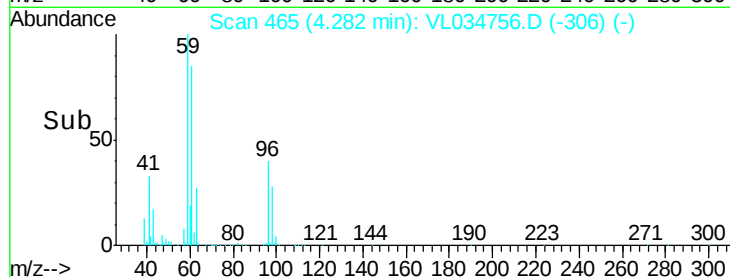
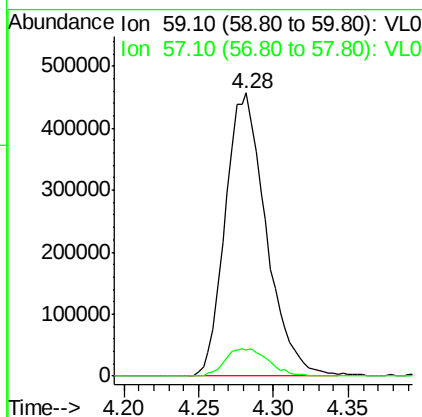
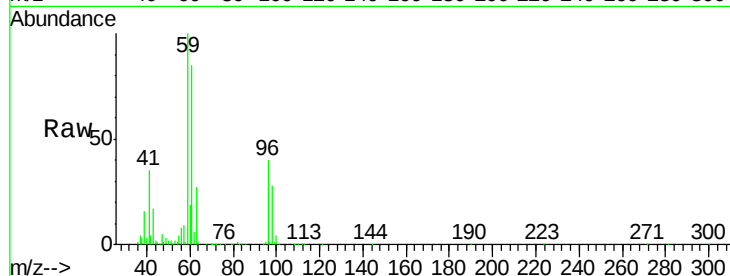
tert-Butyl alcohol
Concen: 10.576 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.8	13.2

Manual Integrations
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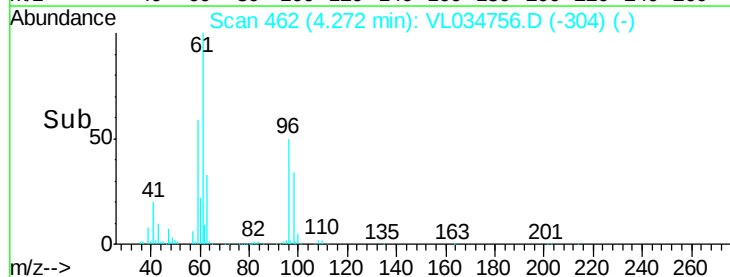
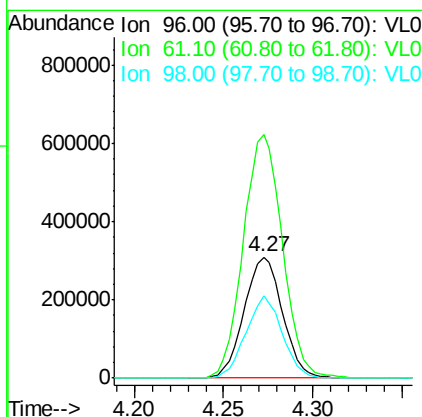
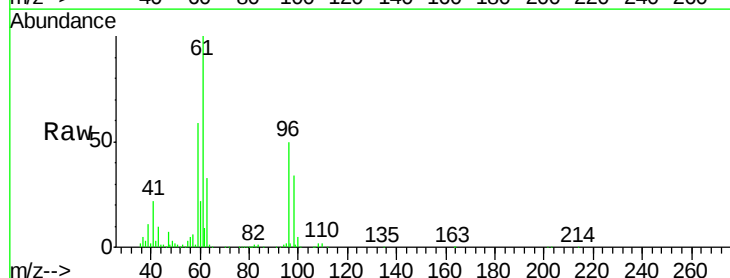
MMDadoda
3/2/2020 1:02:23 PM

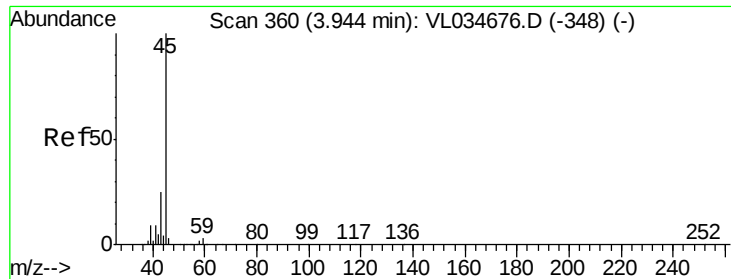


#18

1,1-Dichloroethene
Concen: 11.280 ppbv
RT: 4.27 min Scan# 462
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	200.9	165.1	247.7
98	68.3	52.7	79.1





#19

Isopropyl Alcohol

Concen: 9.717 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 619030

Ion Ratio Lower Upper

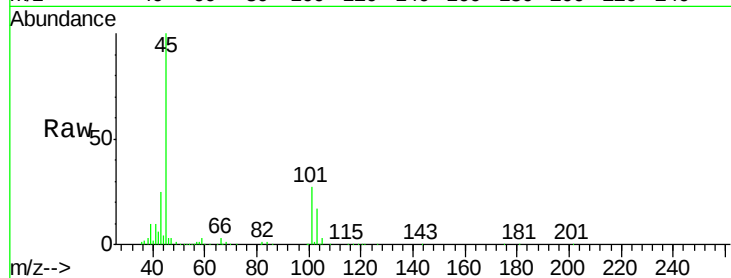
45 100

58 2.3 1.8 2.6

Manual Integrations
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

400000

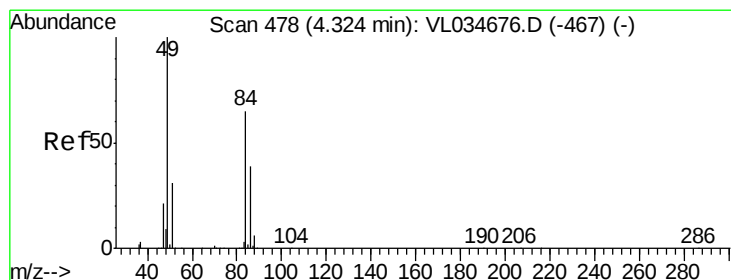
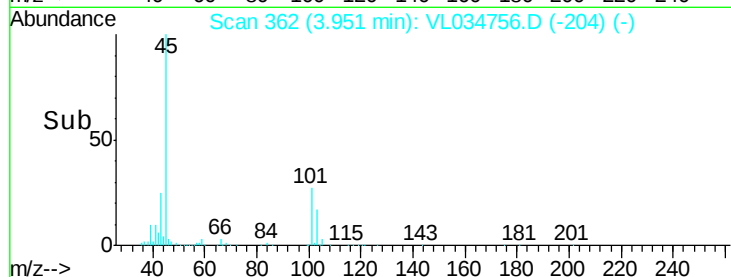
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 10.393 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Tgt Ion: 84 Resp: 413414

Ion Ratio Lower Upper

84 100

49 158.1 122.8 184.2

51 48.9 38.6 58.0

86 63.4 47.7 71.5

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

600000

500000

400000

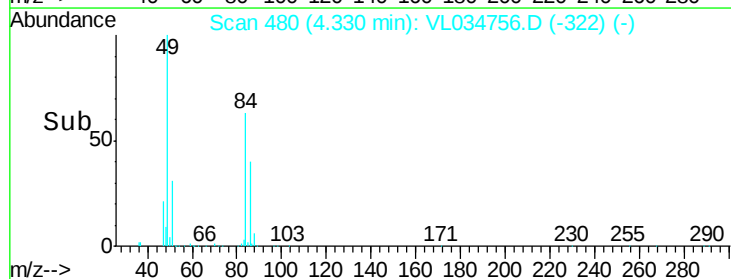
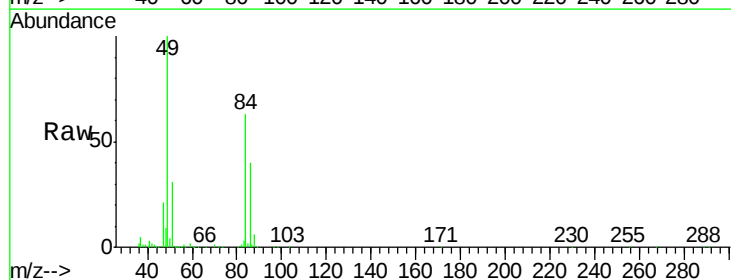
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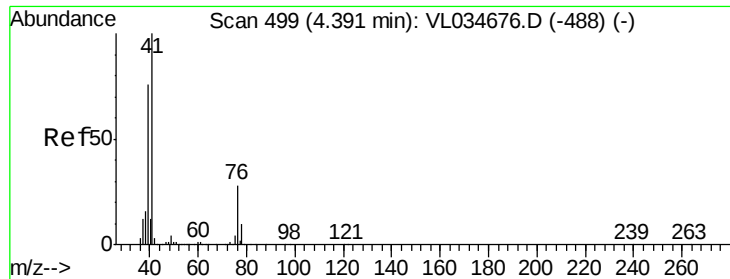
200000

100000

0

Time-->





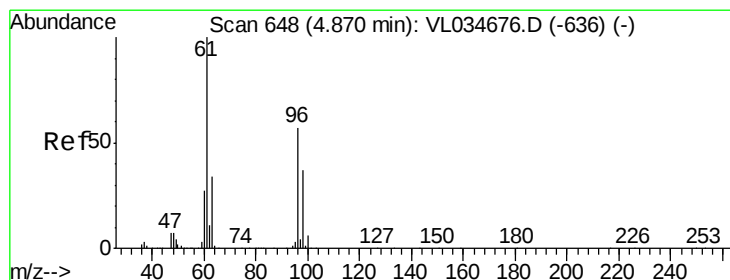
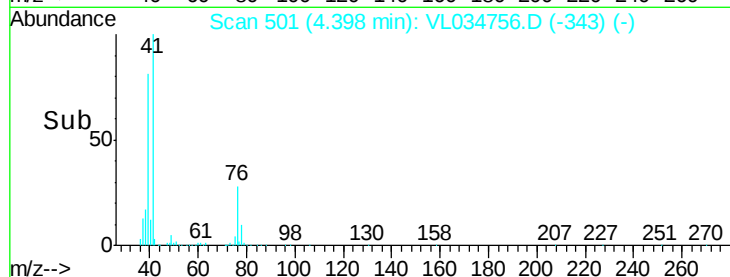
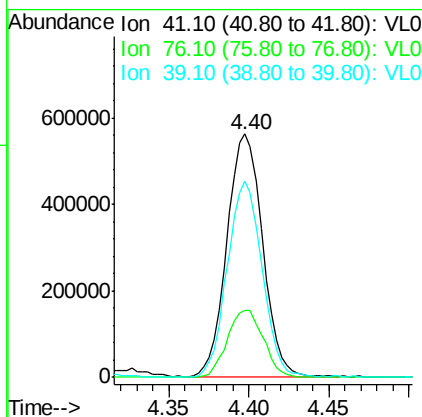
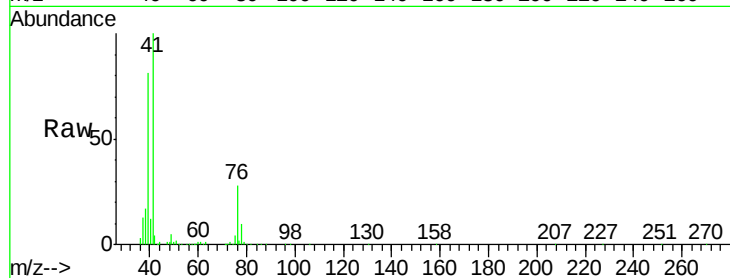
#21
Allvl Chloride
Concen: 11.988 ppbv
RT: 4.40 min Scan# 501
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.0	22.8	34.2
39	79.3	61.7	92.5

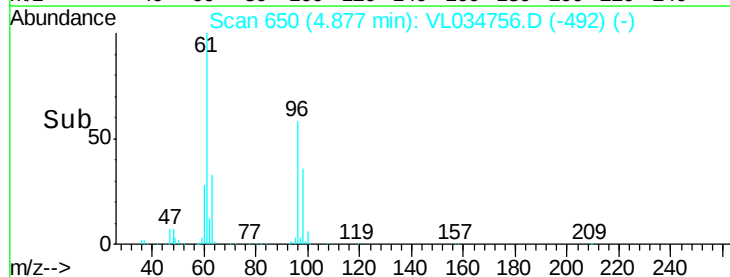
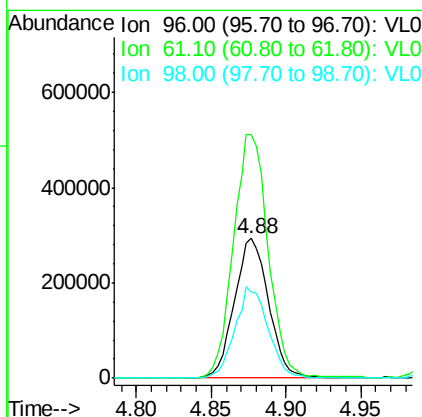
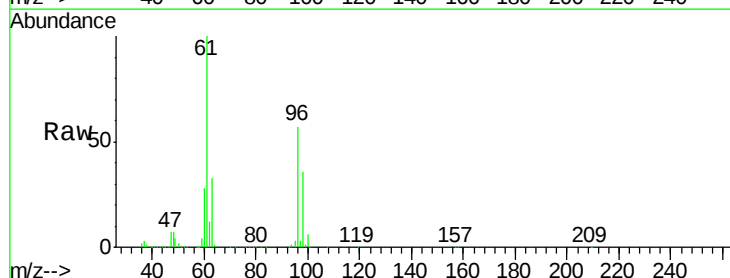
Manual Integrations
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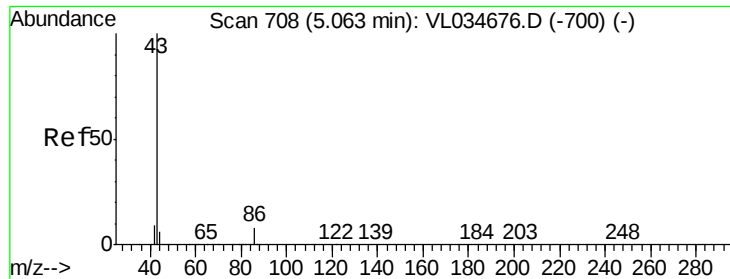
MMDadoda
3/2/2020 1:02:23 PM



#22
trans-1,2-Dichloroethene
Concen: 11.700 ppbv
RT: 4.88 min Scan# 650
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.9	139.4	209.0
98	62.0	51.3	76.9





#23

Vinyl Acetate

Concen: 13.136 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Tot Ion: 43 Resp: 1910002

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

42 10.5 8.0 12.0

44 5.3 4.5 6.7

Instrument :

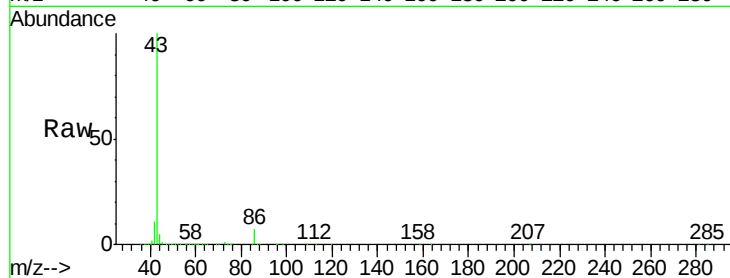
MSVOA_L

ClientSampleId :

VSTDCCC010EC

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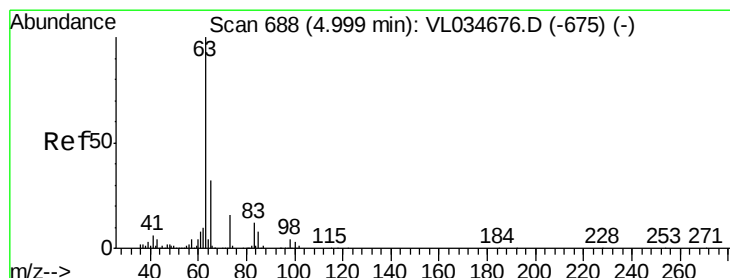
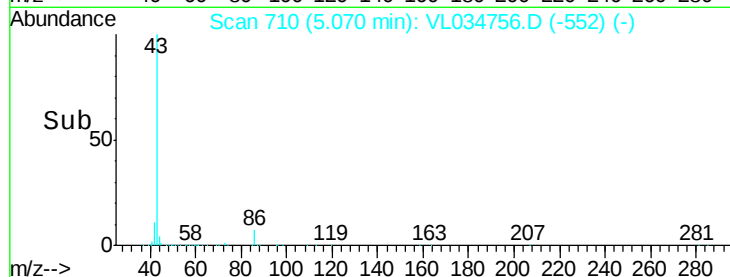
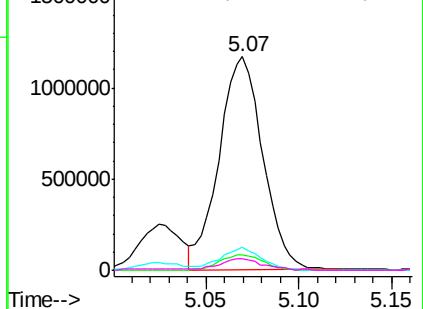


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 11.211 ppbv

RT: 5.00 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

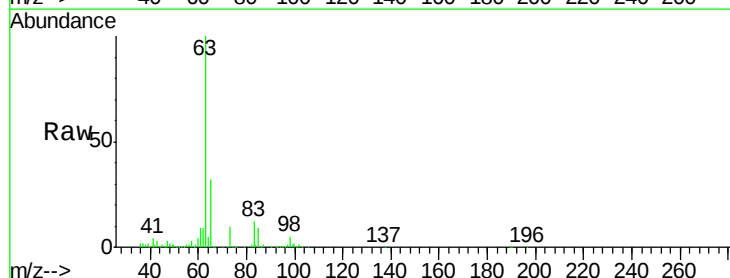
Tgt Ion: 63 Resp: 1301850

Ion Ratio Lower Upper

63 100

98 4.5 2.1 6.2

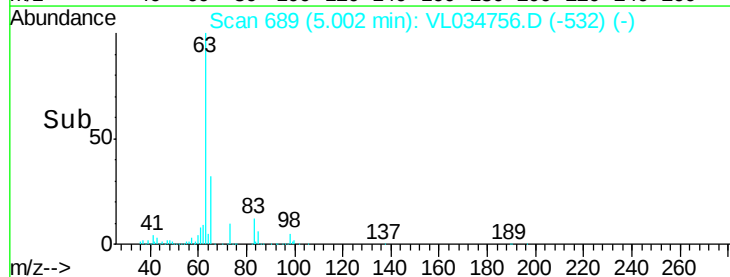
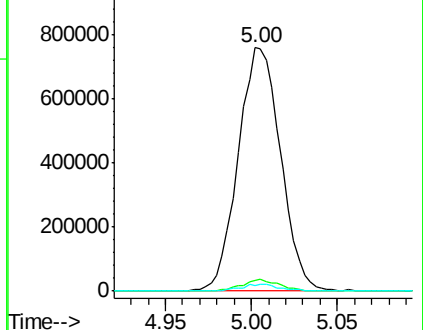
100 2.5 1.4 4.0

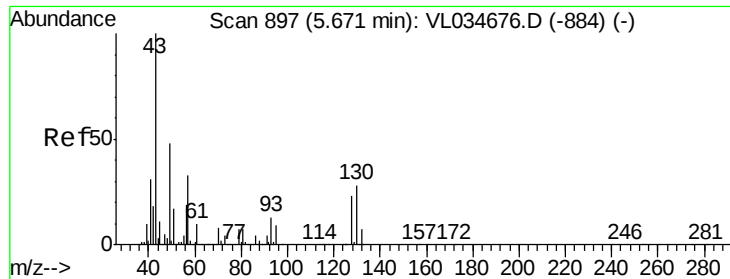


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





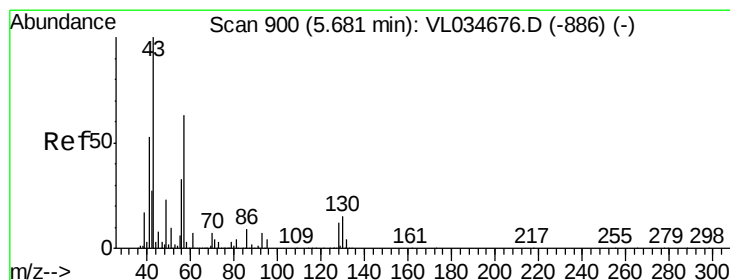
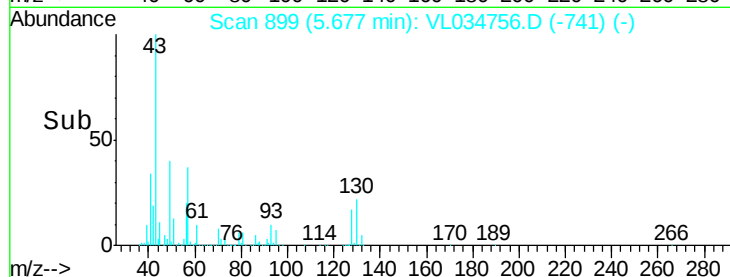
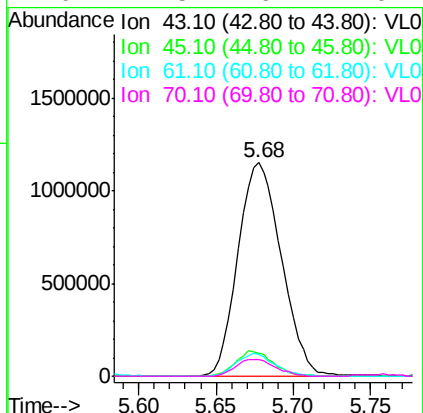
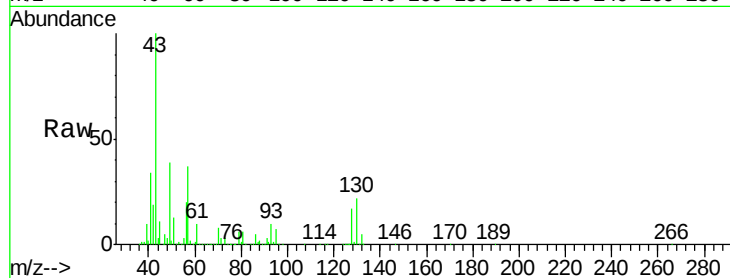
#25
Ethyl Acetate
Concen: 11.816 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.3	8.2	12.4	
61	9.4	7.8	11.6	
70	7.5	6.1	9.1	

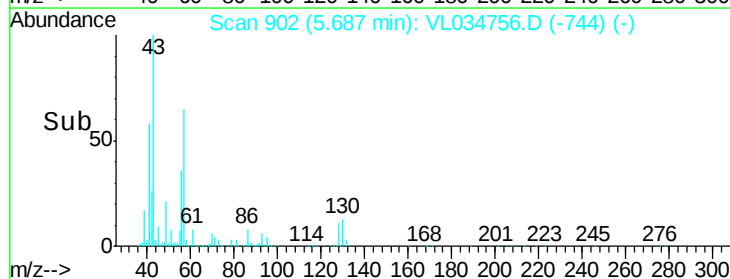
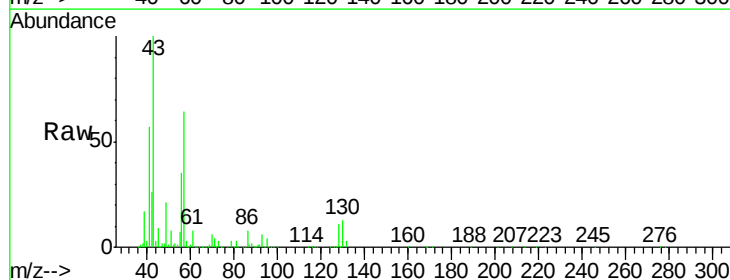
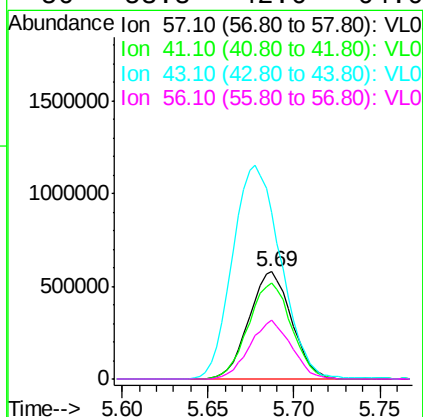
Manual Integrations
APPROVED

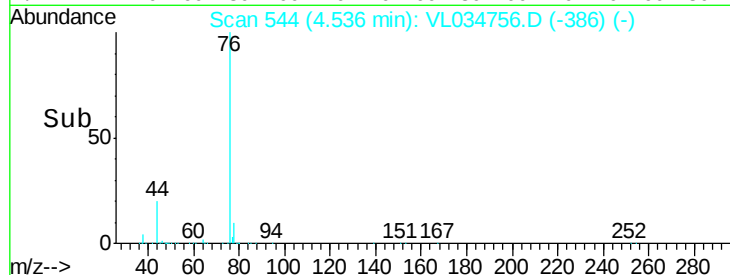
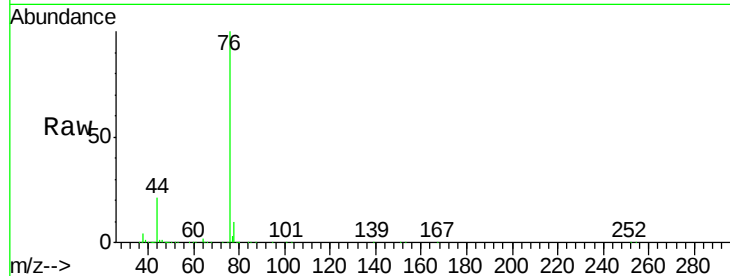
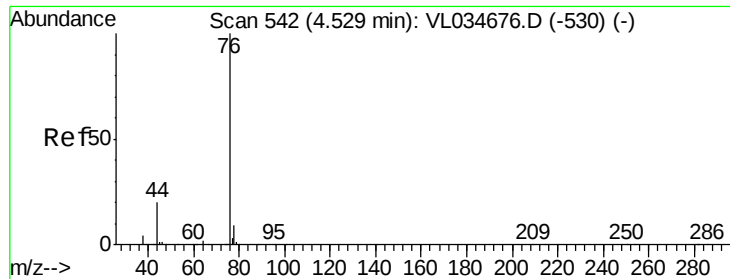
MMDadoda
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#26
Hexane
Concen: 11.347 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	91.4	70.3	105.5	
43	226.9	177.0	265.4	
56	53.8	42.6	64.0	





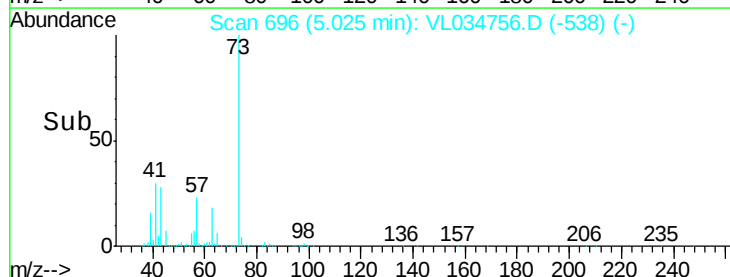
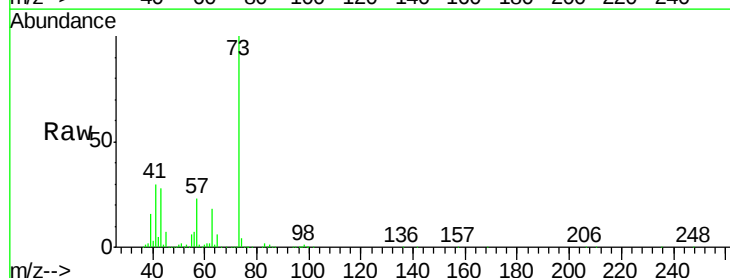
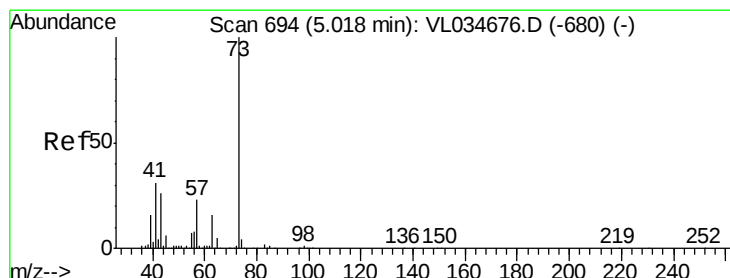
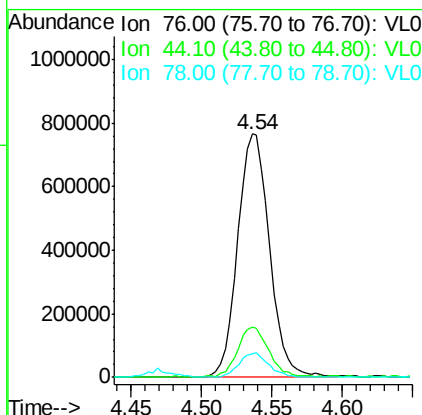
#27
Carbon Disulfide
Concen: 12.283 ppbv
RT: 4.54 min Scan# 544
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tot Ion: 76 Resp: 1216669
Ion Ratio Lower Upper
76 100
44 19.8 15.3 22.9
78 9.5 7.6 11.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

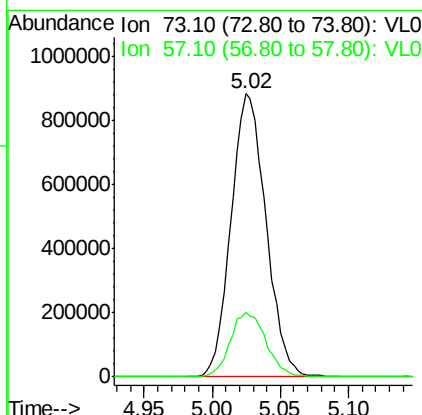
Manual Integrations
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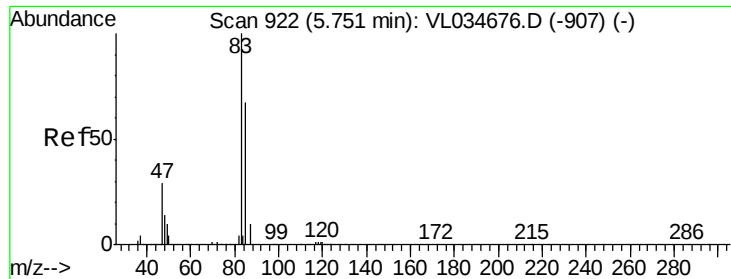
MMDadoda
3/2/2020 1:02:23 PM



#28
Methyl tert-Butyl Ether
Concen: 12.597 ppbv
RT: 5.02 min Scan# 696
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion: 73 Resp: 1570356
Ion Ratio Lower Upper
73 100
57 23.3 18.6 28.0





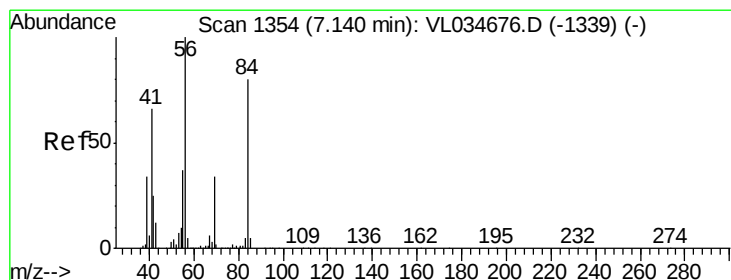
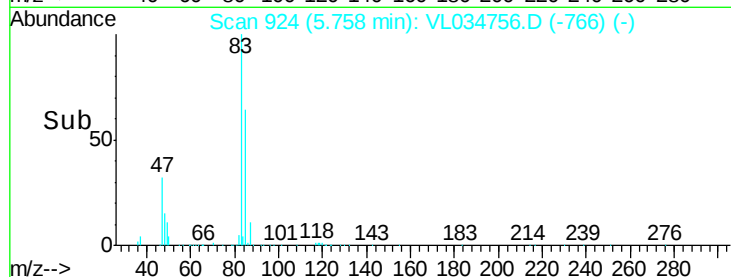
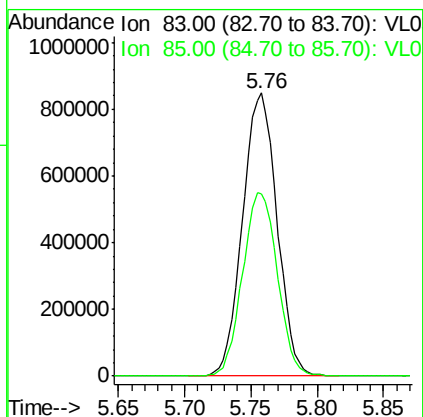
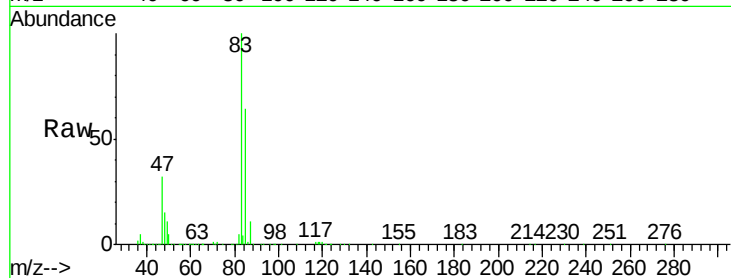
#29
Chloroform
Concen: 11.044 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1535492
Ion Ratio Lower Upper
83 100
85 64.3 53.9 80.9

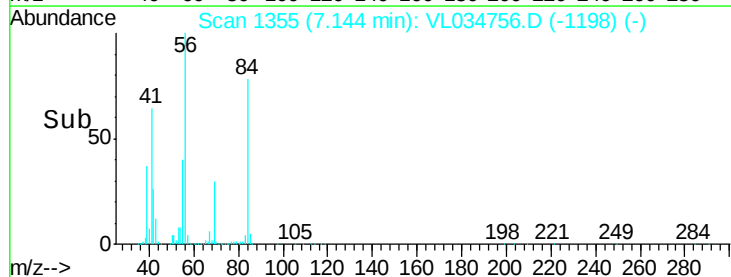
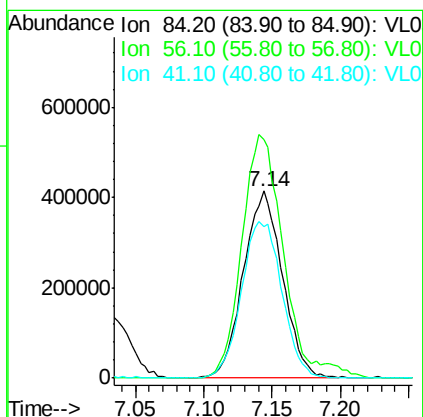
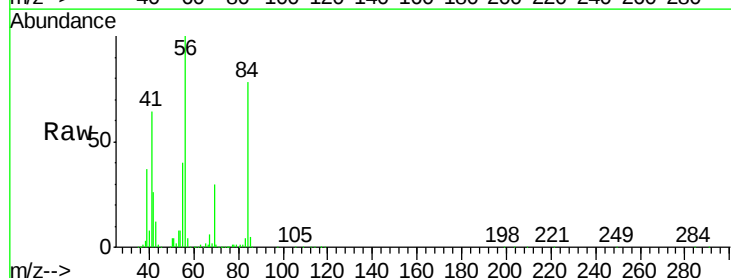
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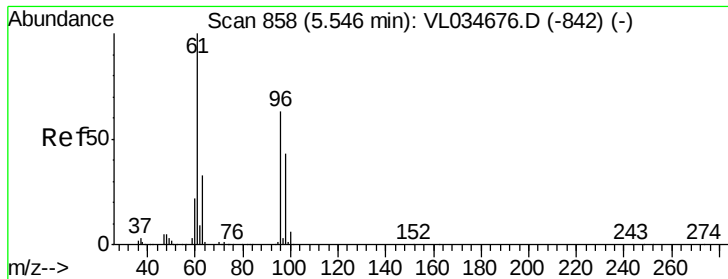
MMDadoda
3/2/2020 1:02:23 PM



#30
Cyclohexane
Concen: 12.197 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion: 84 Resp: 824844
Ion Ratio Lower Upper
84 100
56 139.3 113.4 170.2
41 86.7 68.2 102.4





#31

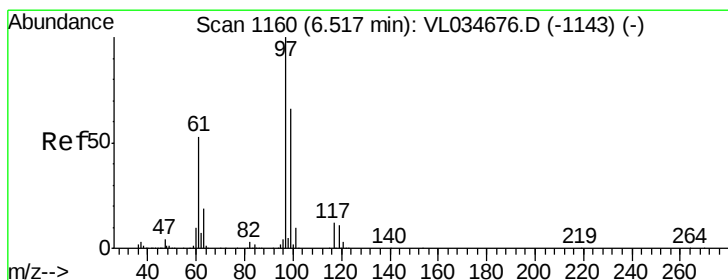
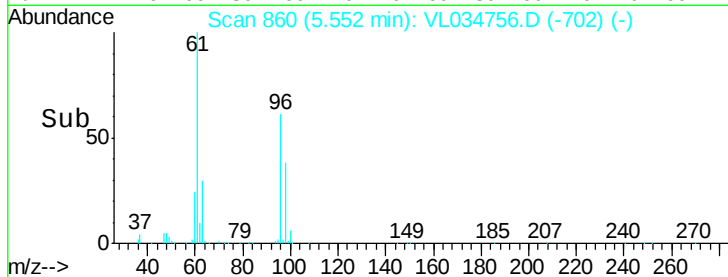
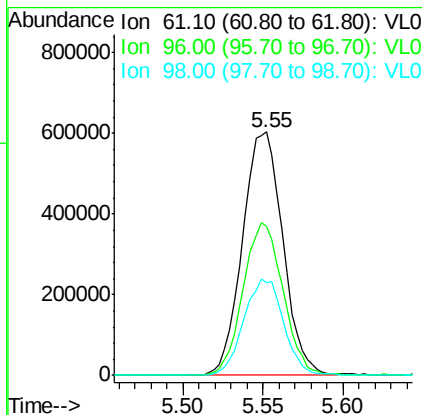
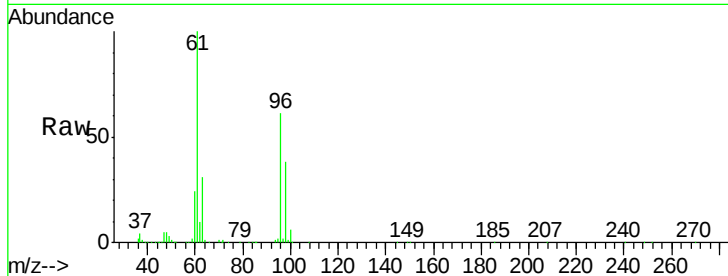
cis-1,2-Dichloroethene
 Concen: 12.078 ppbv
 RT: 5.55 min Scan# 860
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.0	50.2	75.2
98	38.1	34.3	51.5

Manual Integrations
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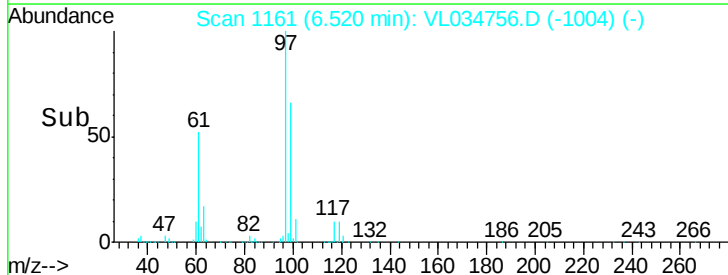
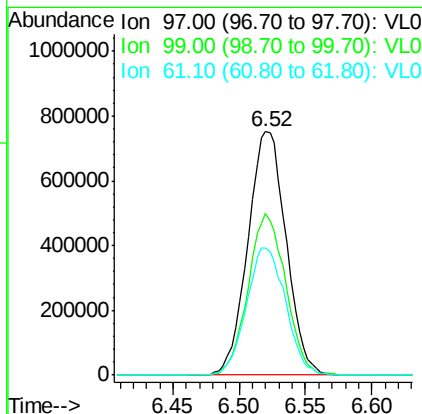
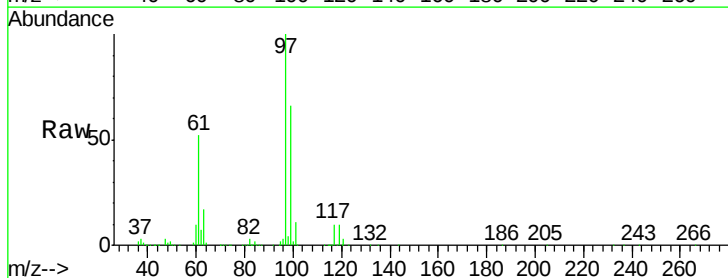
MMDadoda
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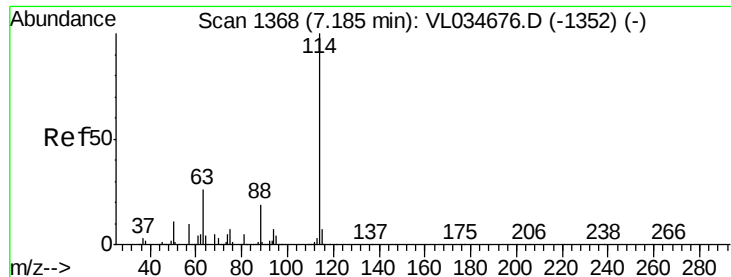


#32

1,1,1-Trichloroethane
 Concen: 11.612 ppbv
 RT: 6.52 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.3	78.5
61	53.4	42.8	64.2





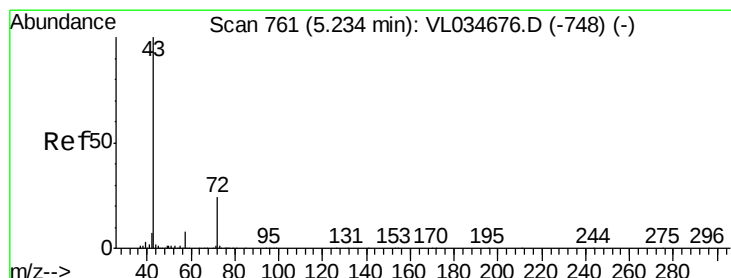
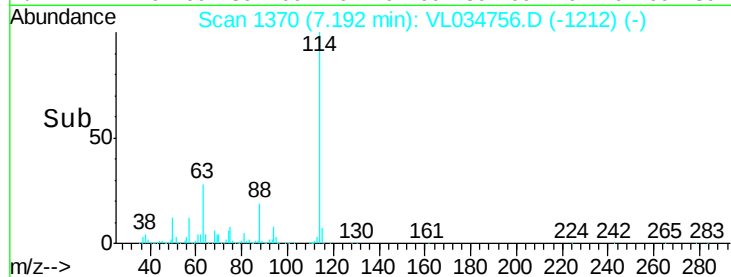
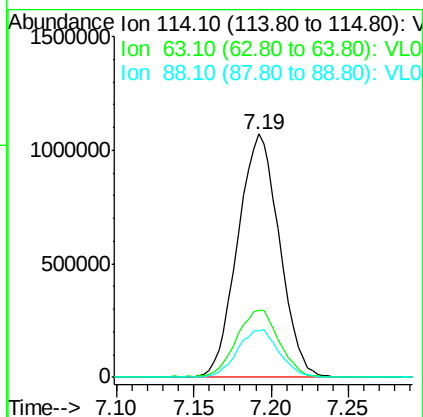
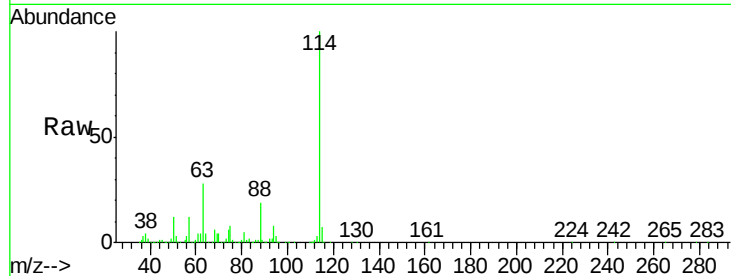
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	114	Resp:	2006794
Ion	Ratio	Lower	Upper
114	100		
63	28.8	22.9	34.3
88	19.7	15.8	23.6

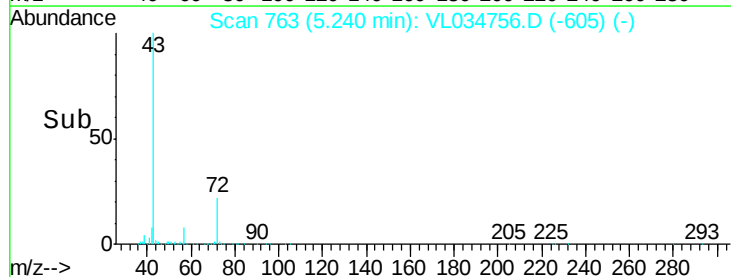
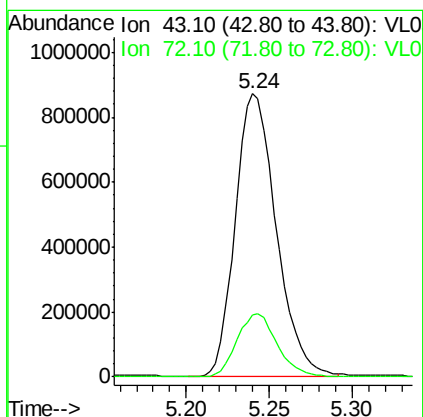
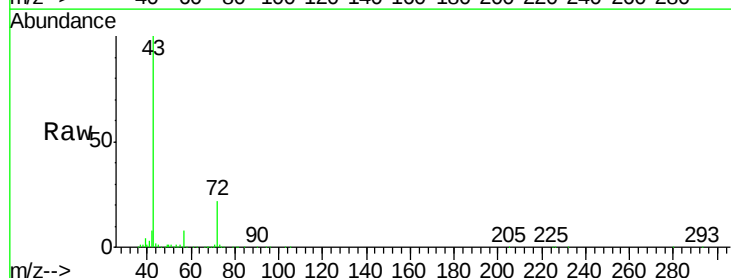
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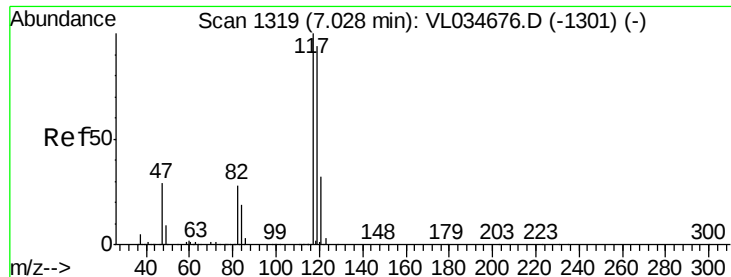
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#34
 2-Butanone
 Concen: 11.824 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion:	43	Resp:	1493575
Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.2	27.2





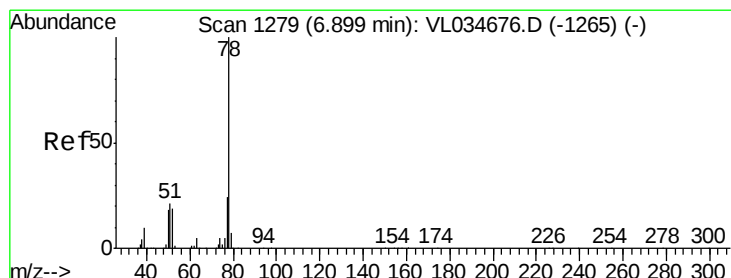
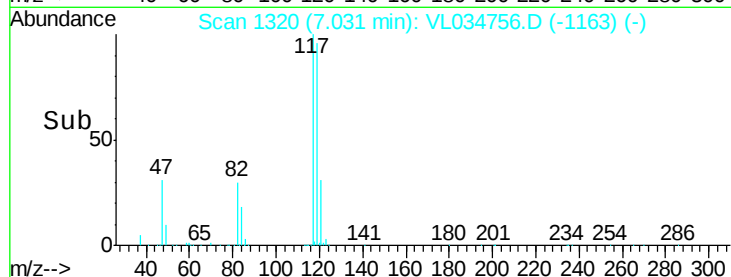
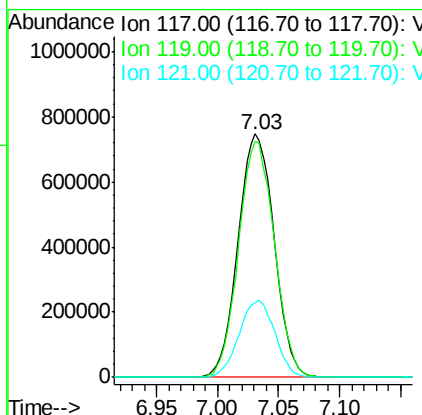
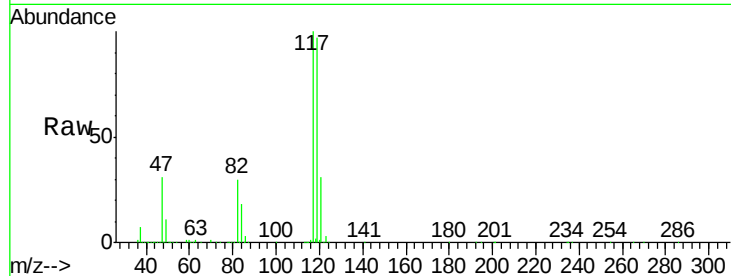
#35
Carbon Tetrachloride
Concen: 11.325 ppbv
RT: 7.03 min Scan# 1320
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.5	113.3
121	30.9	25.4	38.0

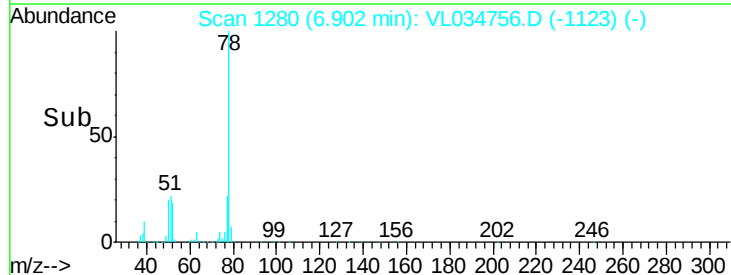
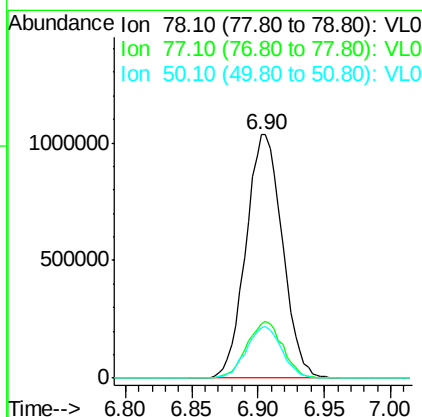
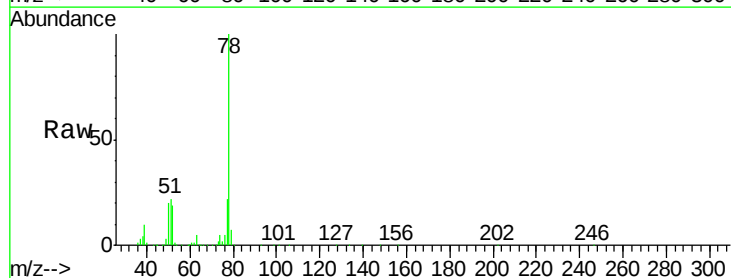
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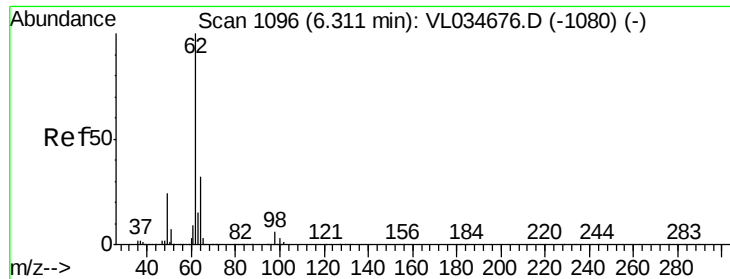
MMDadoda
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#36
Benzene
Concen: 11.407 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.5	29.3
50	20.4	14.6	21.8





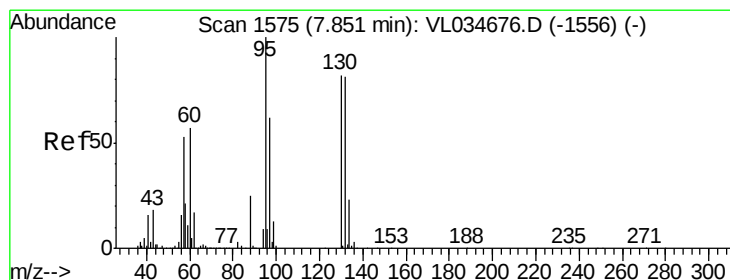
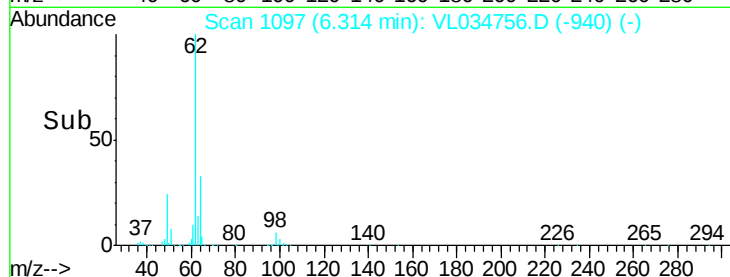
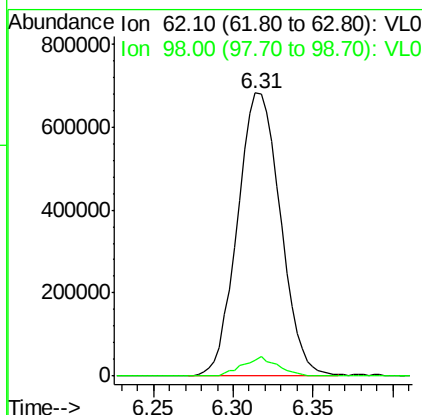
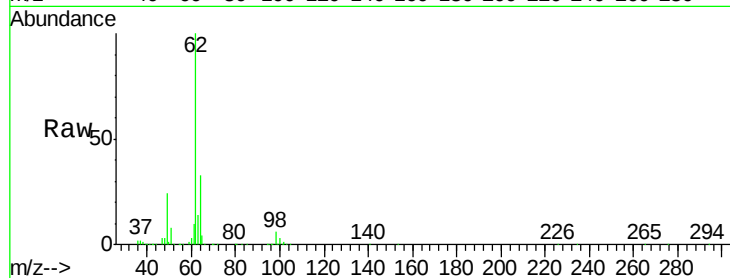
#37
 1,2-Dichloroethane
 Concen: 11.423 ppbv
 RT: 6.31 min Scan# 1097
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.7	7.1

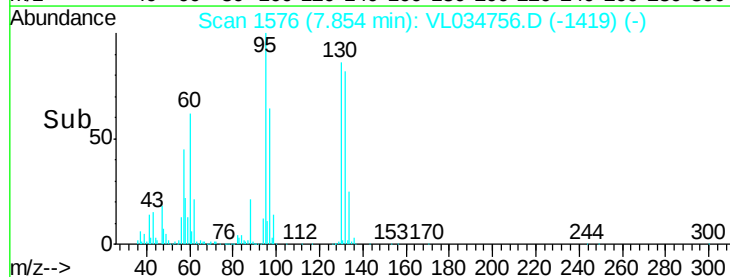
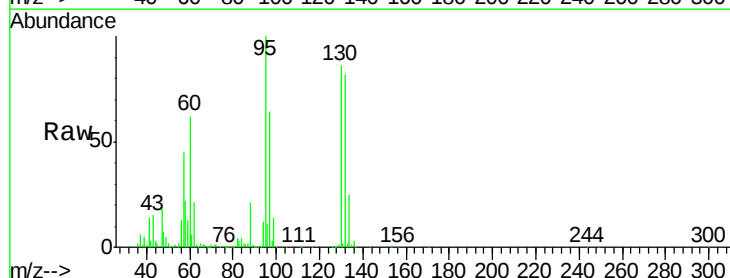
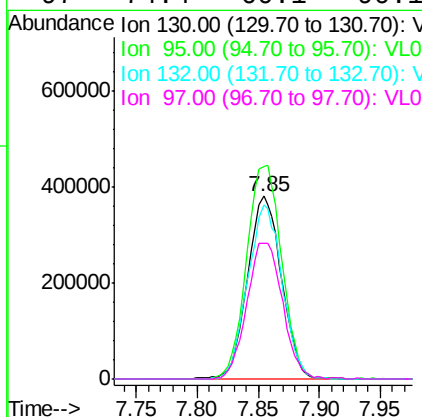
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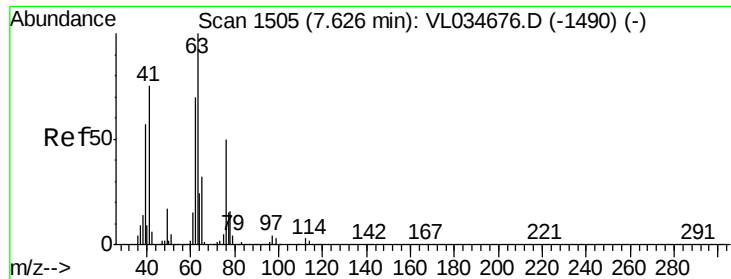
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#38
 Trichloroethene
 Concen: 10.845 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.4	97.1	145.7
132	95.6	78.3	117.5
97	74.4	60.1	90.1





#39

1,2-Dichloropropane

Concen: 11.548 ppbv

RT: 7.64 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

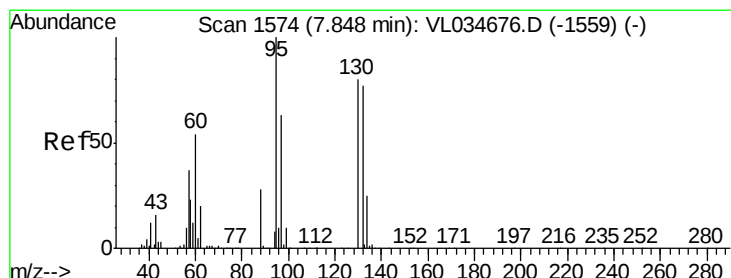
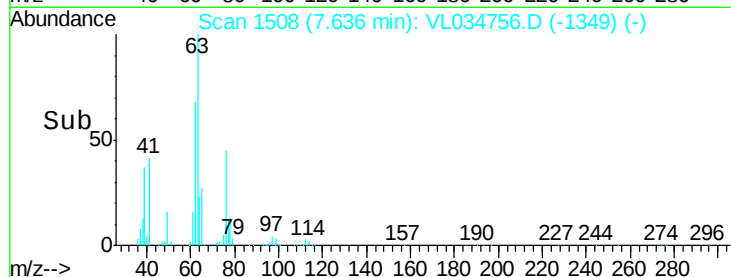
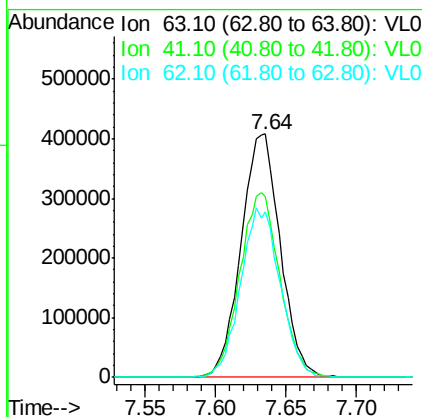
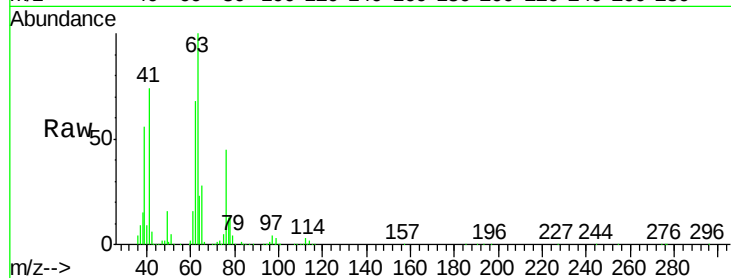
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	796291
Ion Ratio	Lower	Upper	
63	100		
41	74.3	60.2	90.4
62	67.9	56.3	84.5

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.700 ppbv

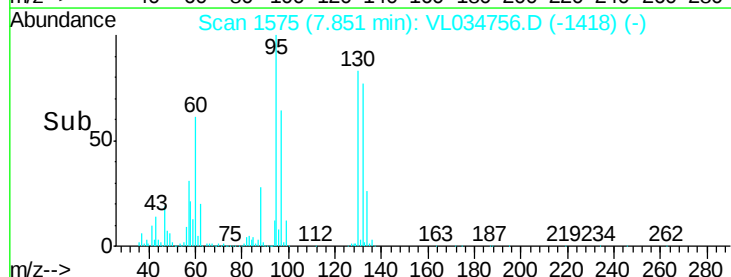
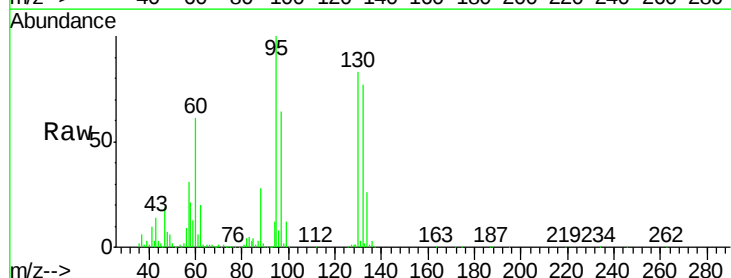
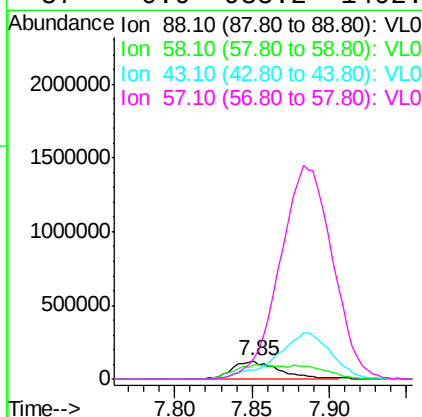
RT: 7.85 min Scan# 1575

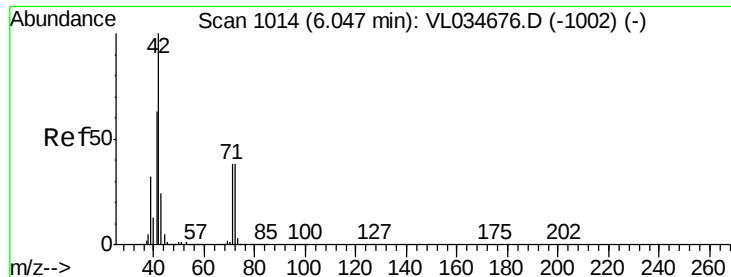
Delta R.T. 0.00 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Tgt Ion:	88	Resp:	250915
Ion Ratio	Lower	Upper	
88	100		
58	144.4	104.6	156.8
43	0.0	212.9	319.3#
57	0.0	935.2	1402.8#





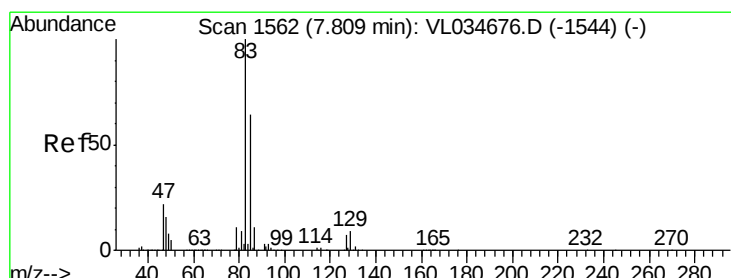
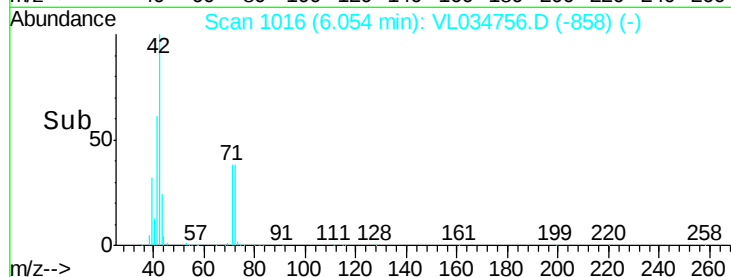
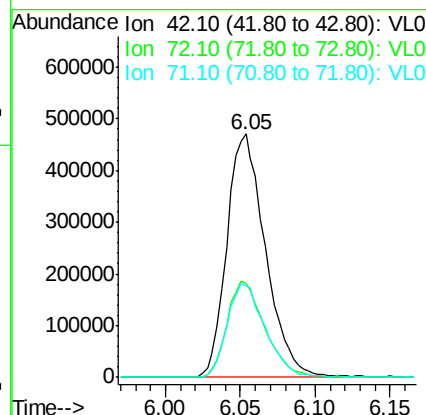
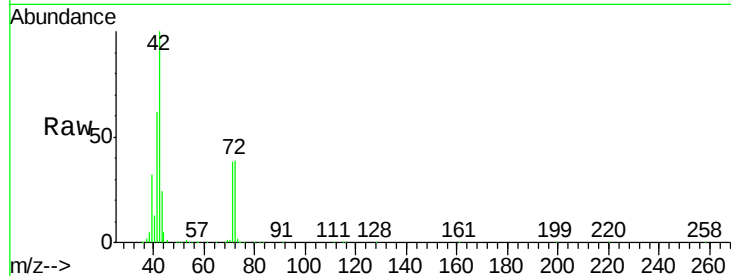
#41
Tetrahydrofuran
Concen: 12.630 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.3	31.7	47.5
71	38.2	30.7	46.1

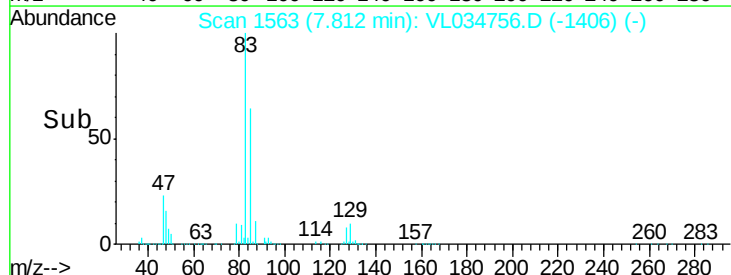
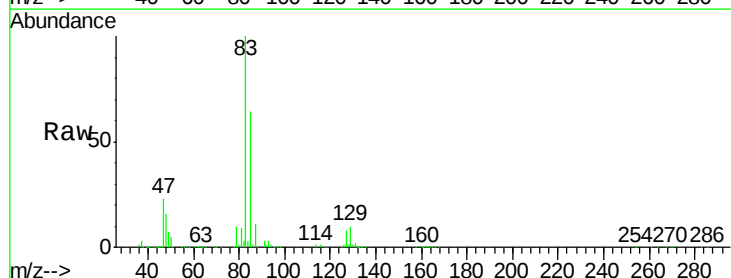
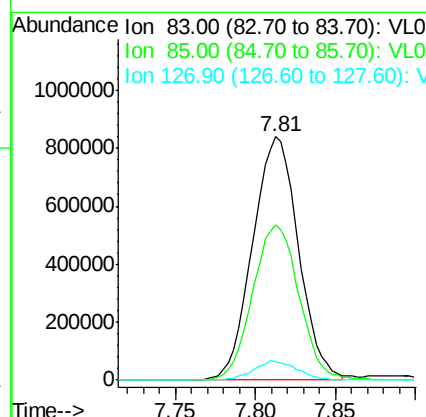
Manual Integrations
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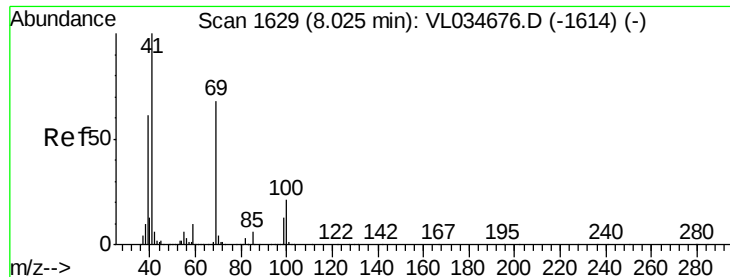
MMDadoda
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#42
Bromodichloromethane
Concen: 11.543 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	7.7	5.8	8.8





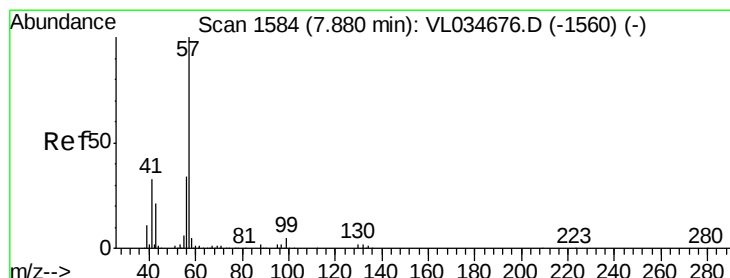
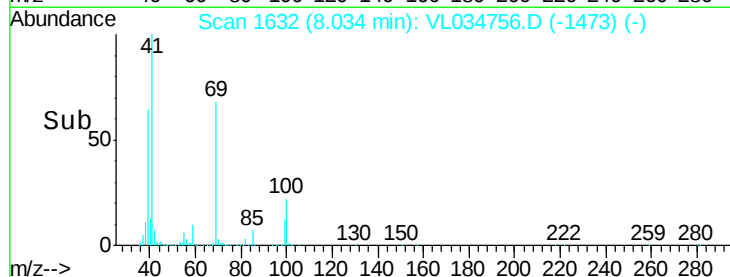
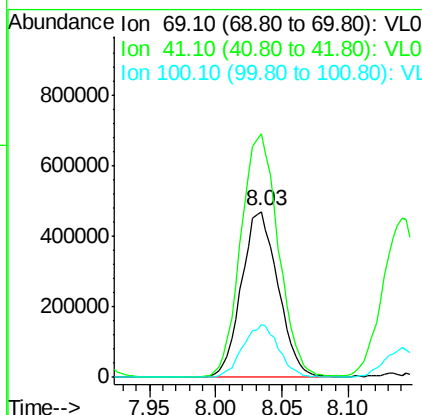
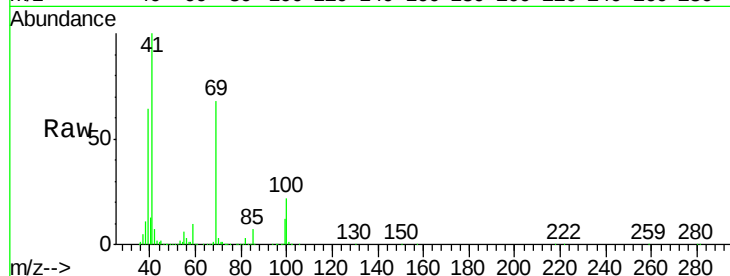
#43
Methvl Methacrilate
Concen: 12.378 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	150.5	118.2	177.2
100	31.1	24.2	36.2

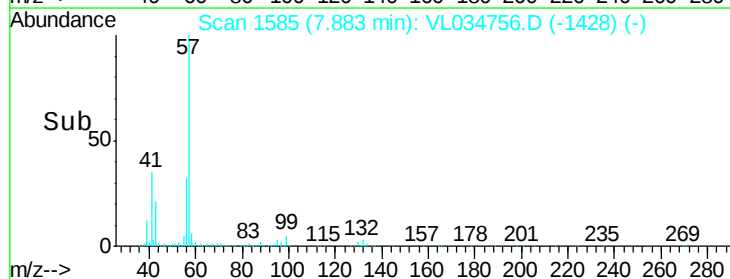
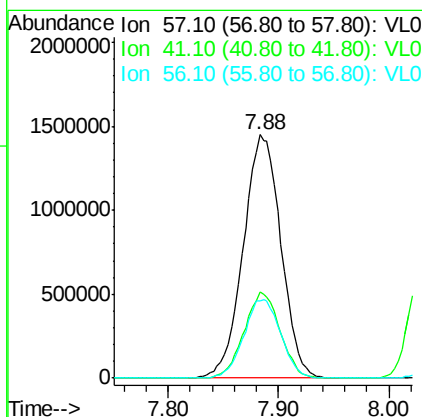
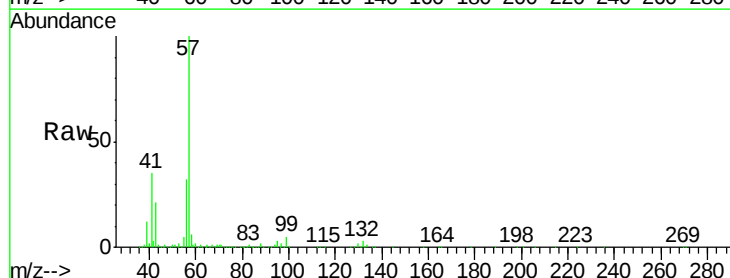
Manual Integrations
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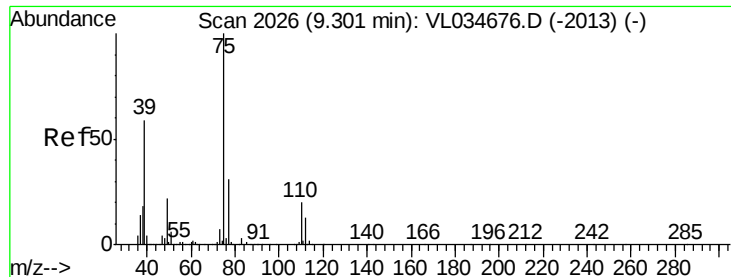
MMDadoda
3/2/2020 1:02:23 PM



#44
2,2,4-Trimethylpentane
Concen: 11.277 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.8	26.0	39.0
56	31.8	25.6	38.4





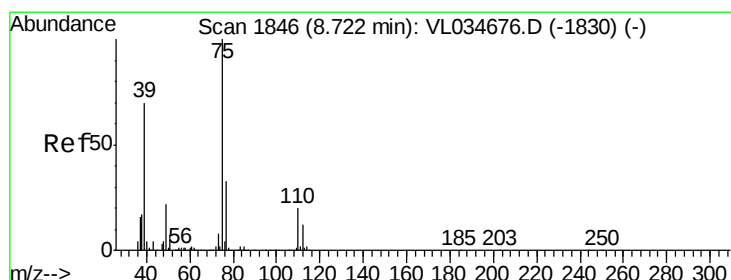
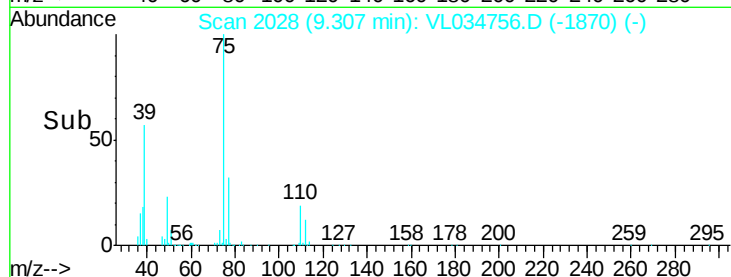
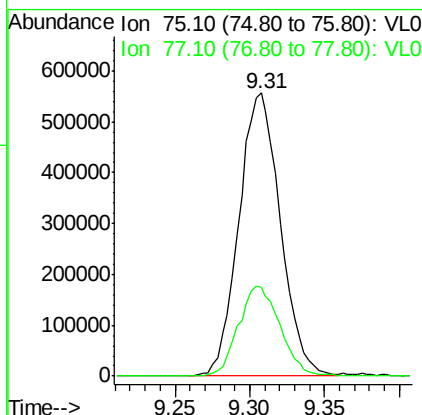
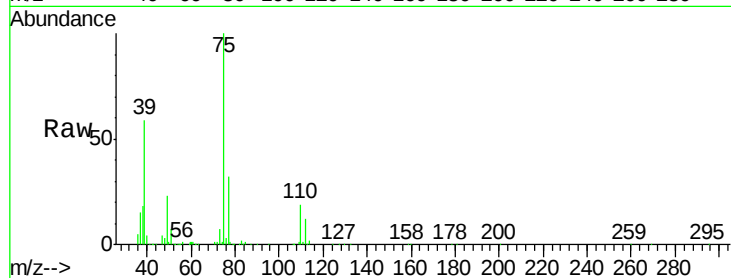
#45
t-1,3-Dichloropropene
Concen: 13.463 ppbv
RT: 9.31 min Scan# 2028
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1071003
Ion Ratio Lower Upper
75 100
77 31.6 25.3 37.9

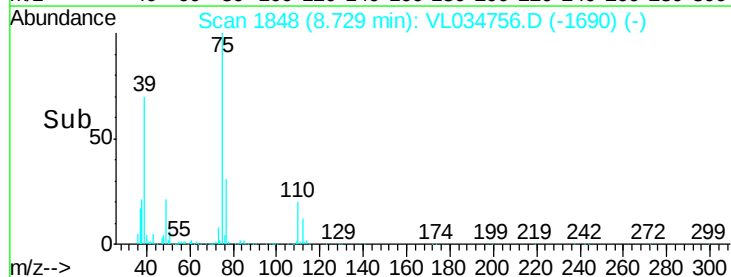
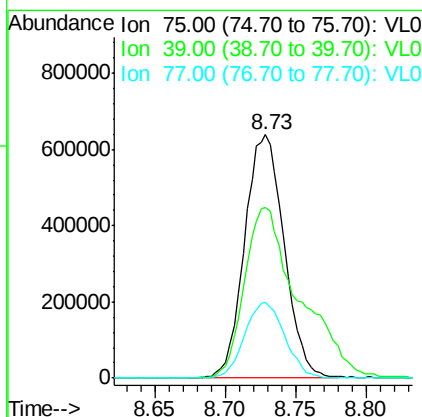
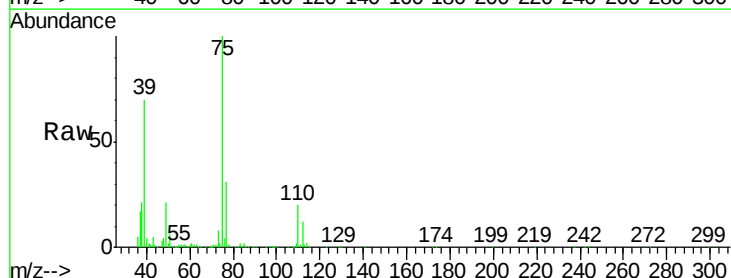
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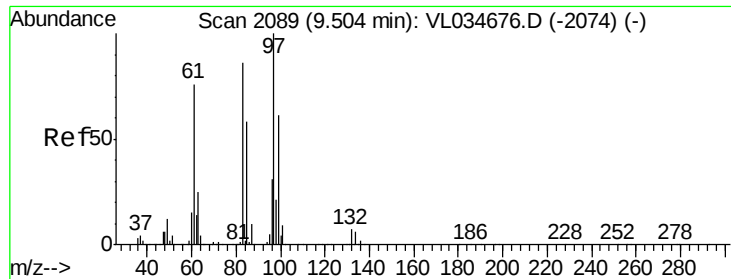
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 13.115 ppbv
RT: 8.73 min Scan# 1848
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion: 75 Resp: 1251304
Ion Ratio Lower Upper
75 100
39 69.8 55.7 83.5
77 31.2 26.3 39.5





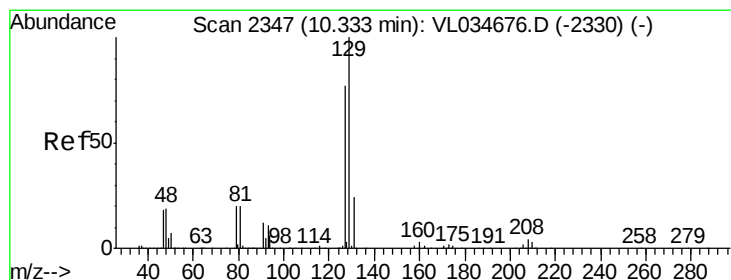
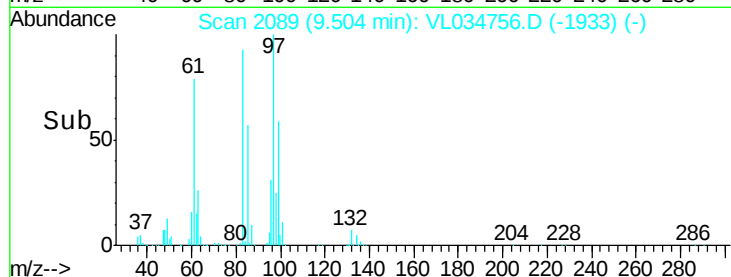
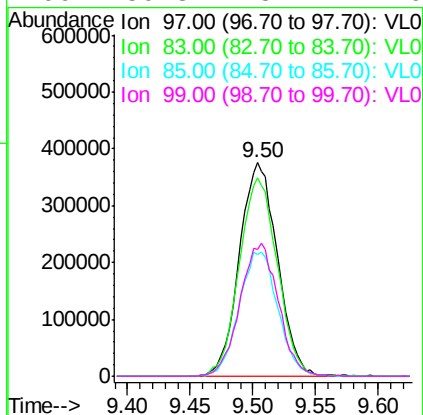
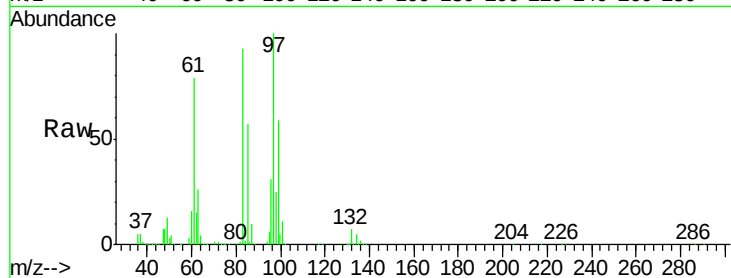
#47
 1,1,2-Trichloroethane
 Concen: 11.198 ppbv
 RT: 9.50 min Scan# 2089
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		792188		
83	92.6	69.4	104.0		
85	56.8	46.4	69.6		
99	59.3	48.4	72.6		

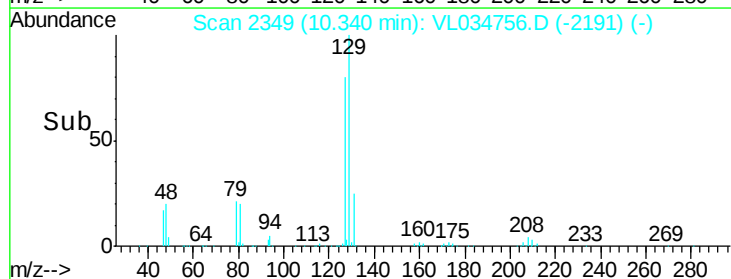
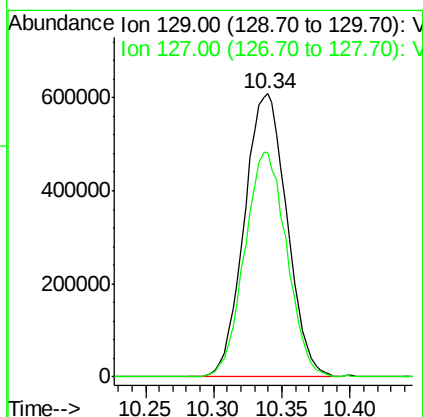
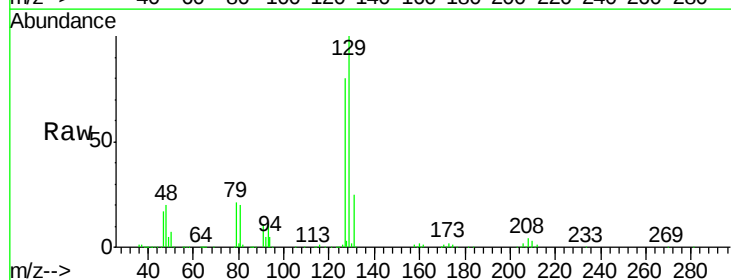
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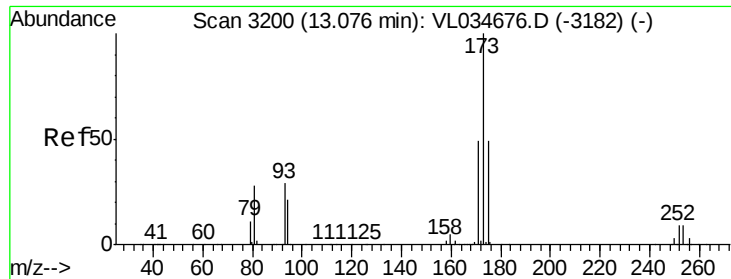
MMDadoda
 3/2/2020 1:02:23 PM



#48
 Dibromochloromethane
 Concen: 11.995 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1319496		
127	78.7	39.3	117.8		





#49

Bromoform

Concen: 11.822 ppbv

RT: 13.09 min Scan# 3203

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1127548

Ion Ratio Lower Upper

173 100

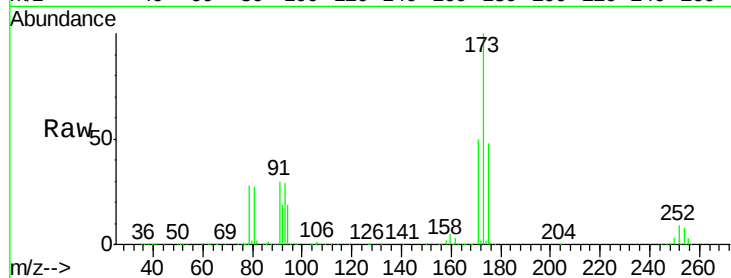
175 49.4 38.6 58.0

171 51.3 41.5 62.3

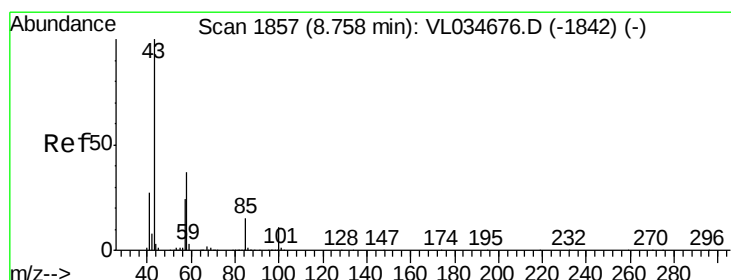
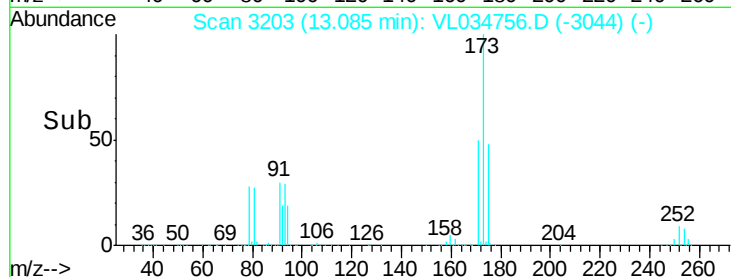
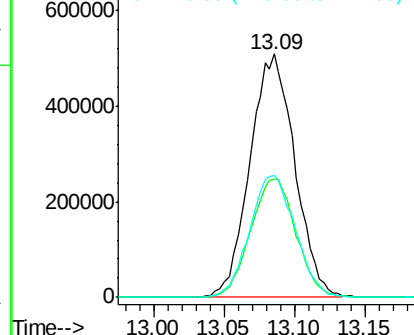
Manual Integrations
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 12.196 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. 0.01 min

Lab File: VL034756.D

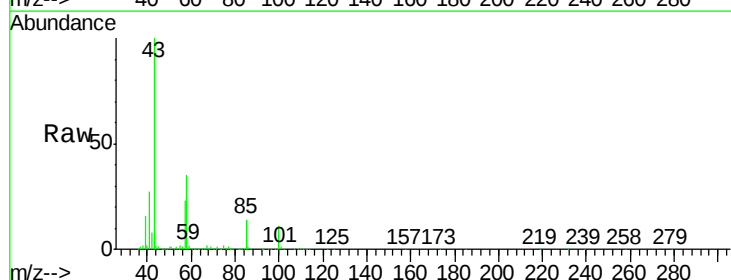
Acq: 29 Feb 2020 3:44

Tgt Ion: 43 Resp: 2181976

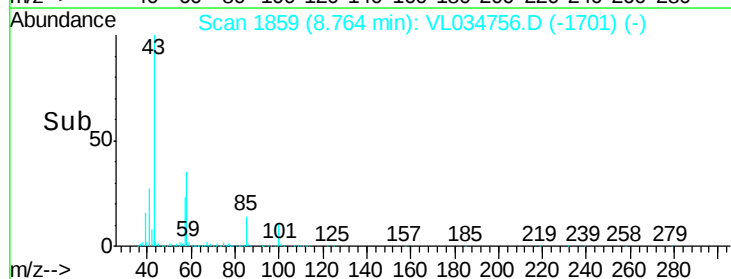
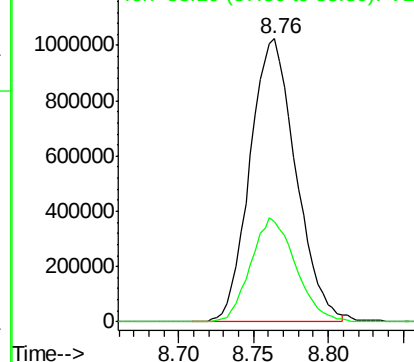
Ion Ratio Lower Upper

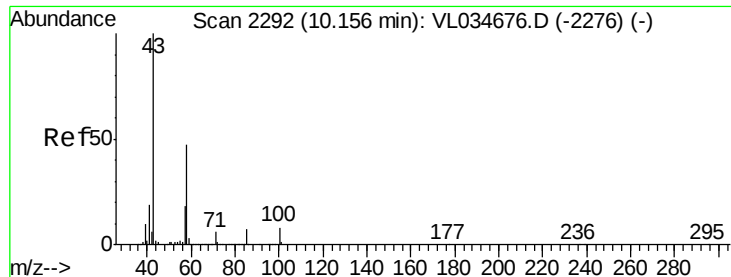
43 100

58 36.3 29.0 43.6



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





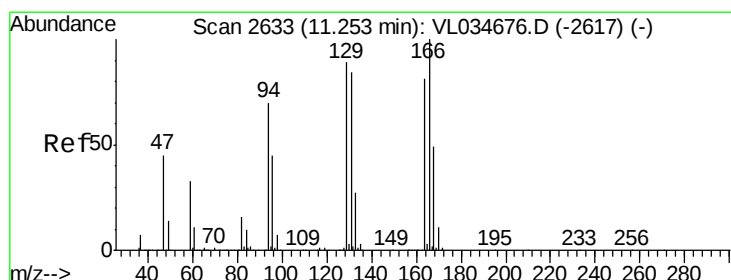
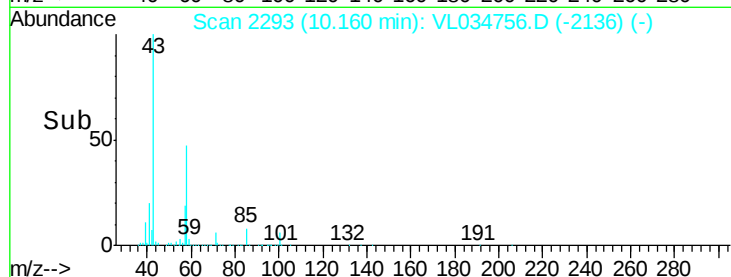
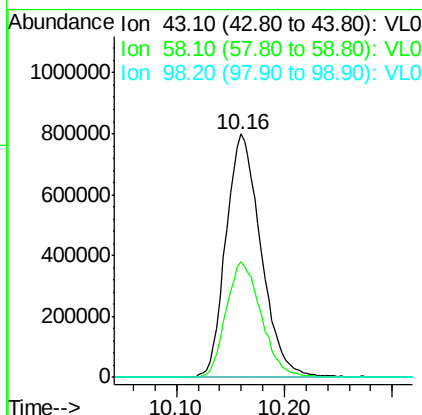
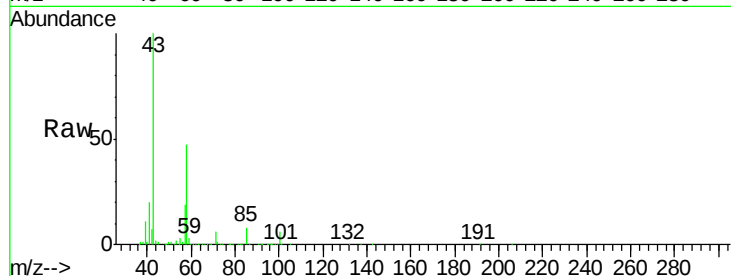
#51
2-Hexanone
Concen: 12.829 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1806180
Ion Ratio Lower Upper
43 100
58 47.9 39.4 59.0
98 0.1 0.2 0.2#

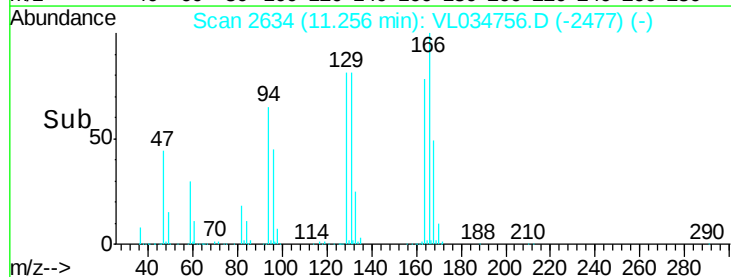
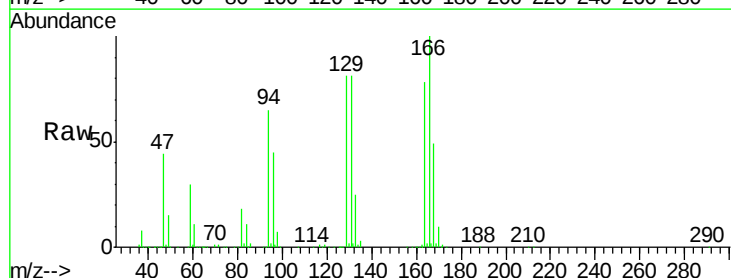
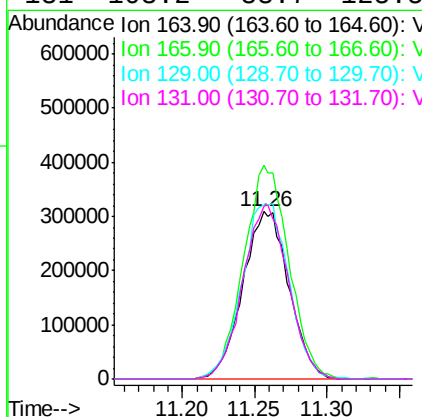
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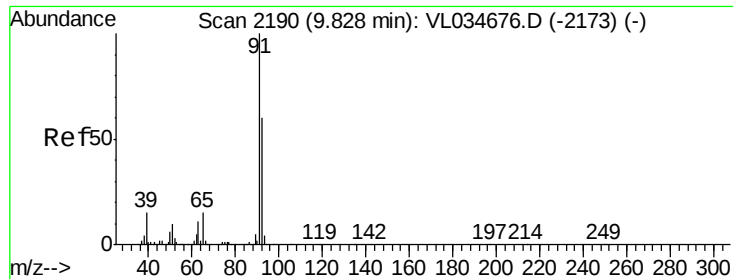
MMDadoda
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#52
Tetrachloroethene
Concen: 10.743 ppbv
RT: 11.26 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion: 164 Resp: 682501
Ion Ratio Lower Upper
164 100
166 127.3 99.2 148.8
129 103.5 88.0 132.0
131 103.2 83.7 125.5





#53

Toluene

Concen: 12.198 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Tot Ion: 91 Resp: 2248667

Ion Ratio Lower Upper

91 100

92 60.1 48.5 72.7

Instrument :

MSVOA_L

ClientSampleId :

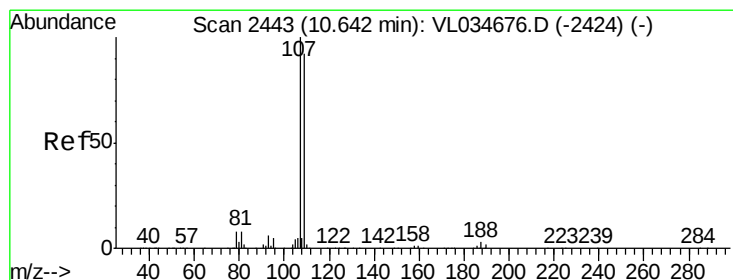
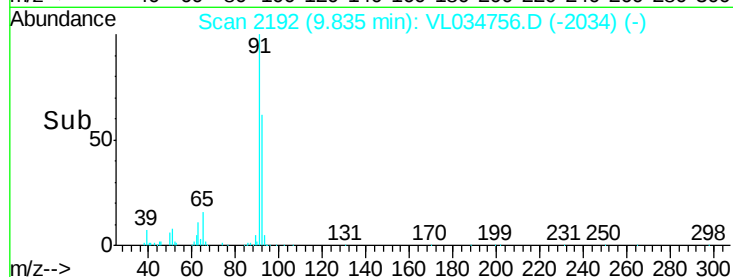
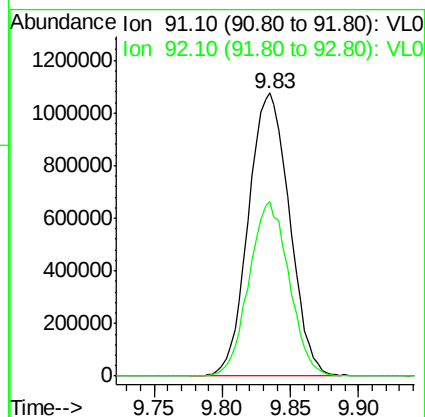
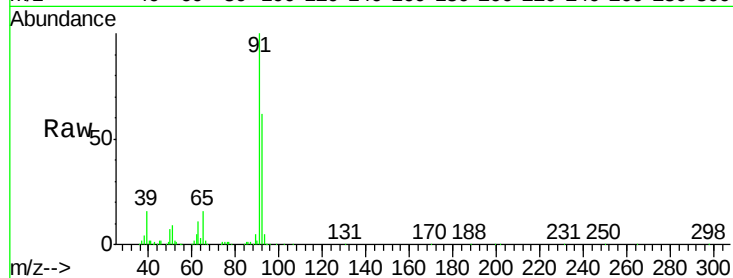
VSTDCCC010EC

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 11.459 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.00 min

Lab File: VL034756.D

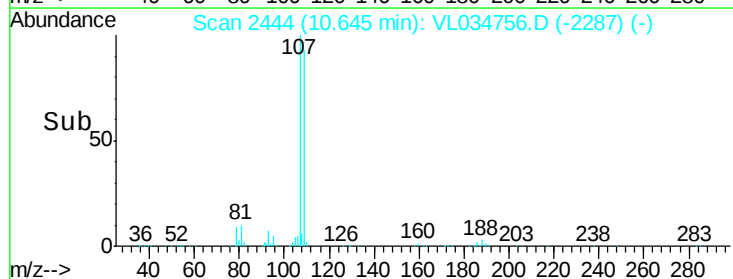
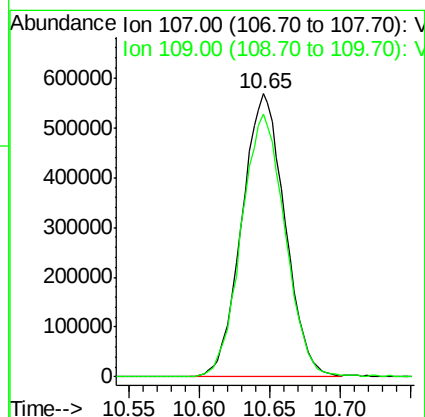
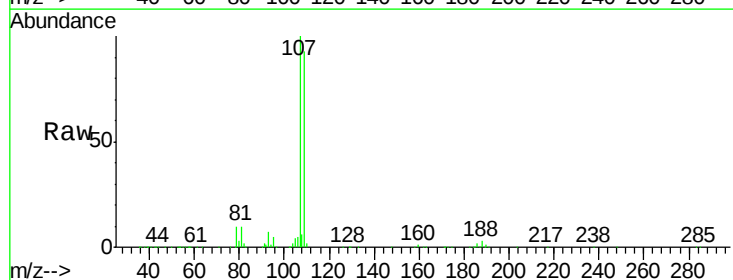
Acq: 29 Feb 2020 3:44

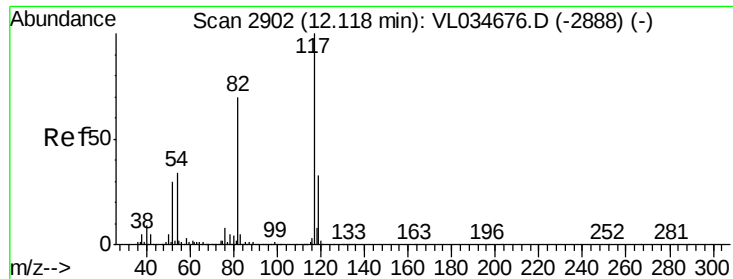
Tgt Ion: 107 Resp: 1209387

Ion Ratio Lower Upper

107 100

109 92.9 73.9 110.9





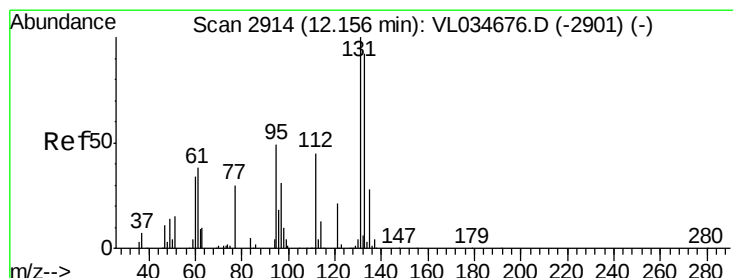
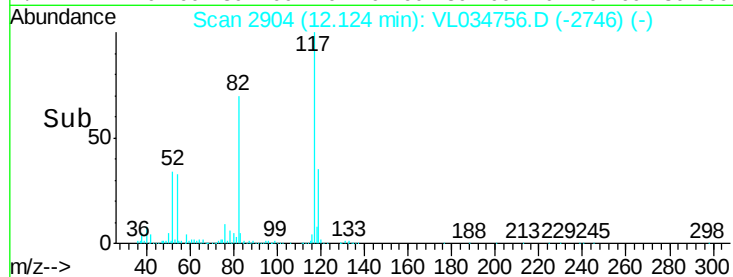
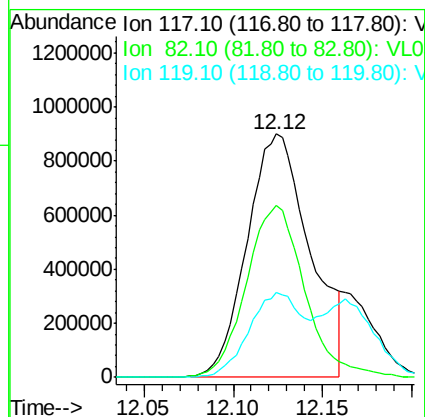
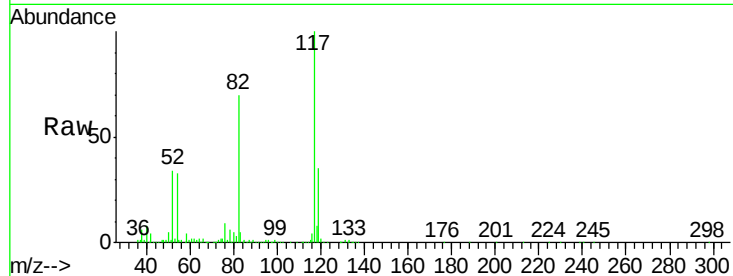
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2217590
Ion Ratio Lower Upper
117 100
82 65.7 54.1 81.1
119 27.8 27.6 41.4

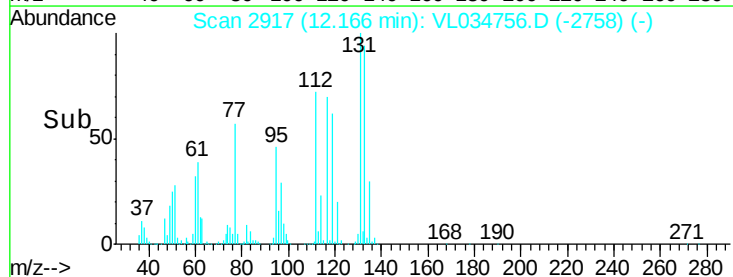
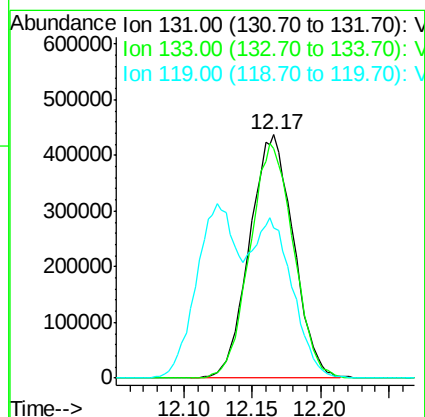
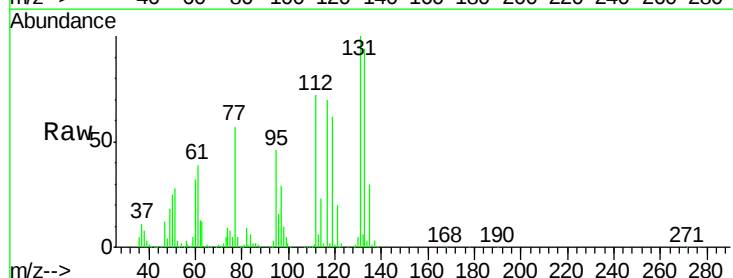
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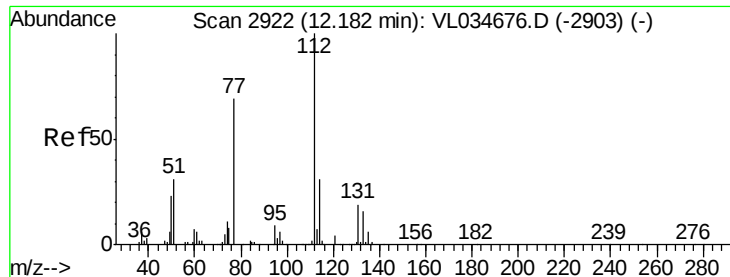
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.326 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion:131 Resp: 975235
Ion Ratio Lower Upper
131 100
133 95.8 76.6 114.8
119 61.8 51.3 76.9





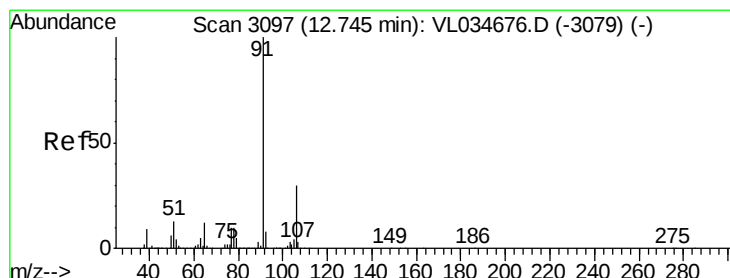
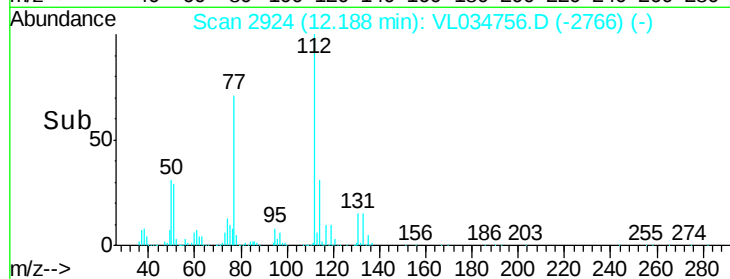
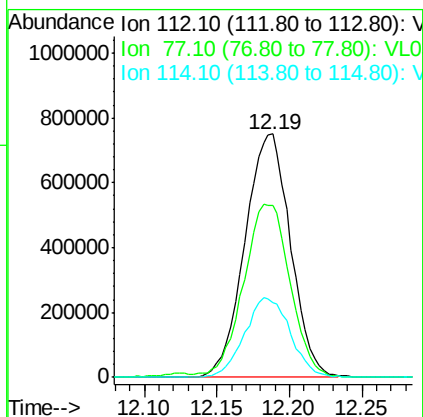
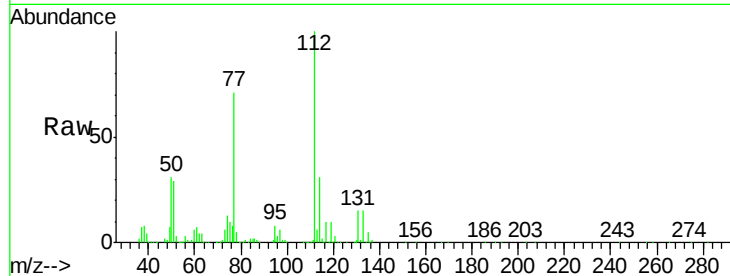
#57
Chlorobenzene
Concen: 10.003 ppbv
RT: 12.19 min Scan# 2924
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	69.9	56.5	84.7
114	30.5	28.1	34.3

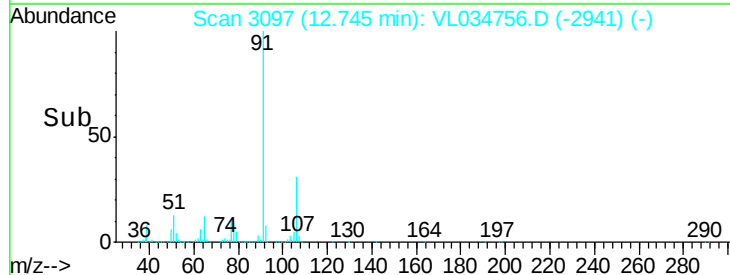
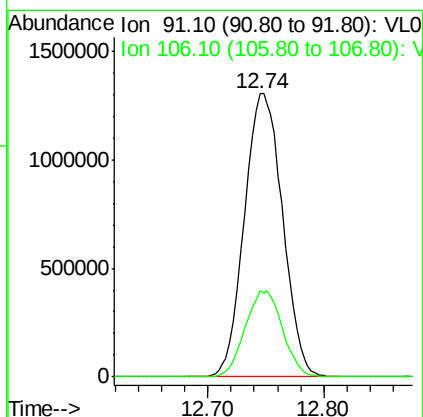
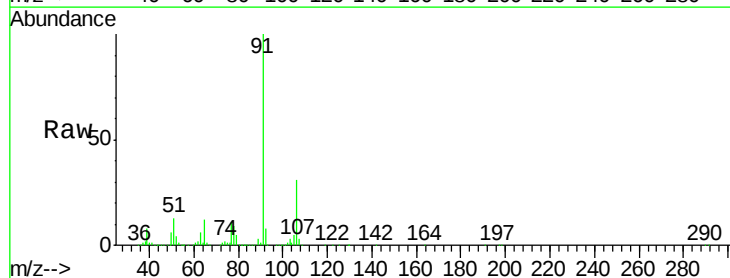
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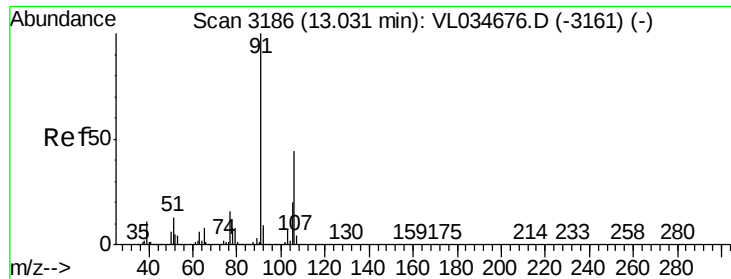
MMDadoda
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#58
Ethyl Benzene
Concen: 11.131 ppbv
RT: 12.74 min Scan# 3097
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.0	36.0





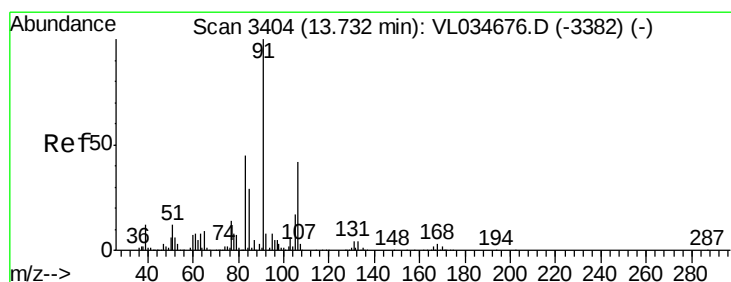
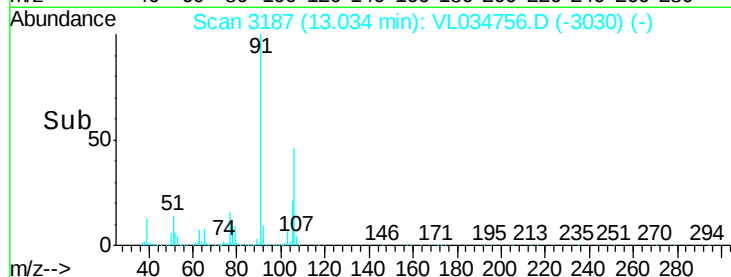
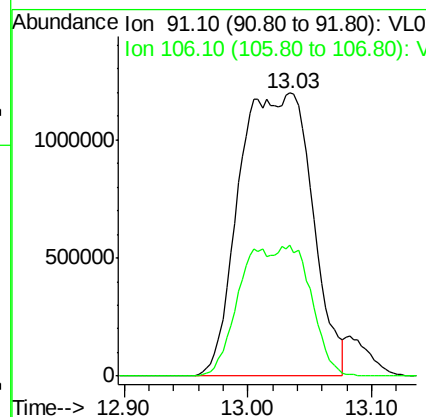
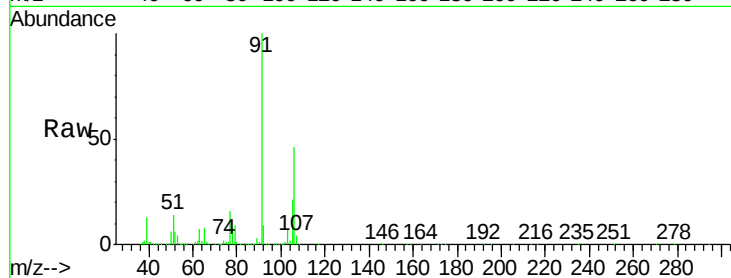
#59
m/p-Xylene
Concen: 20.899 ppbv m
RT: 13.03 min Scan# 3187
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4890450
Ion Ratio Lower Upper
91 100
106 44.4 35.6 53.4

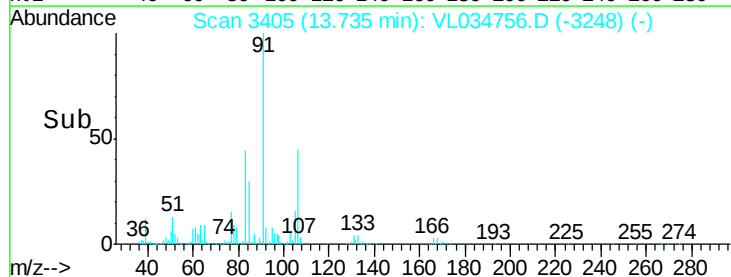
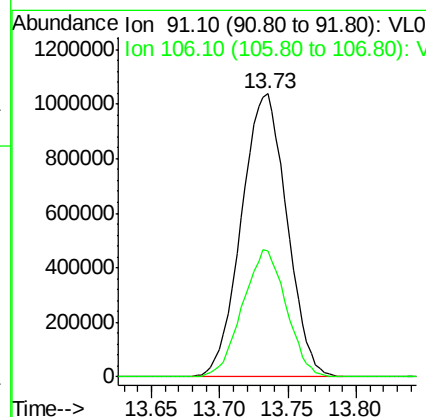
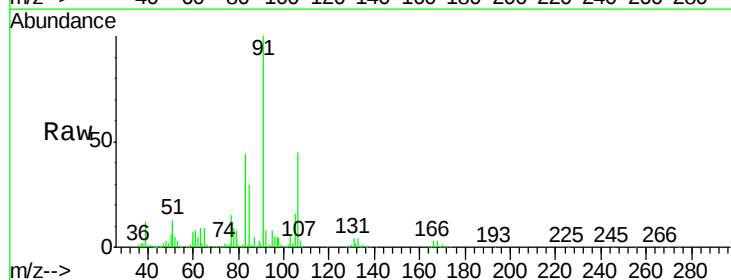
Manual Integrations
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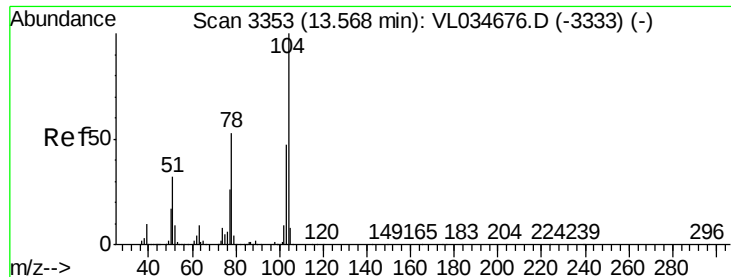
MMDadoda
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#60
o-Xylene
Concen: 10.334 ppbv
RT: 13.73 min Scan# 3405
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion: 91 Resp: 2399651
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.5





#61

Stvrene

Concen: 11.539 ppbv

RT: 13.57 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1721228

Ion Ratio Lower Upper

104 100

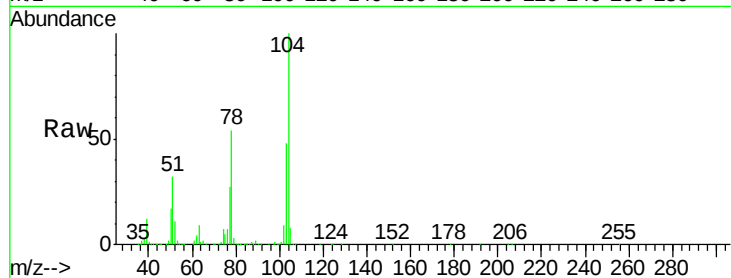
78 55.5 44.2 66.4

103 47.7 37.4 56.0

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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

13.57

800000

600000

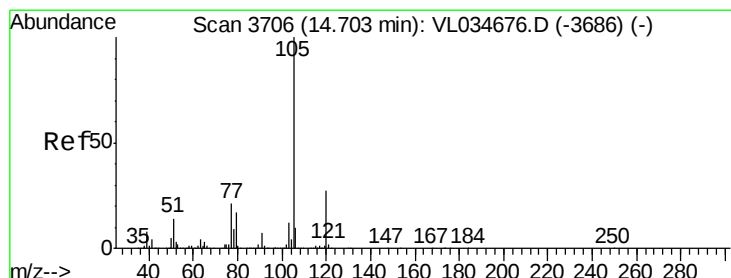
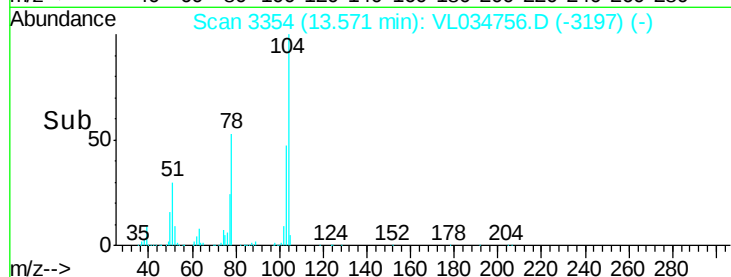
400000

200000

0

13.50 13.60

Time-->



#62

Isopropylbenzene

Concen: 10.341 ppbv

RT: 14.71 min Scan# 3709

Delta R.T. 0.01 min

Lab File: VL034756.D

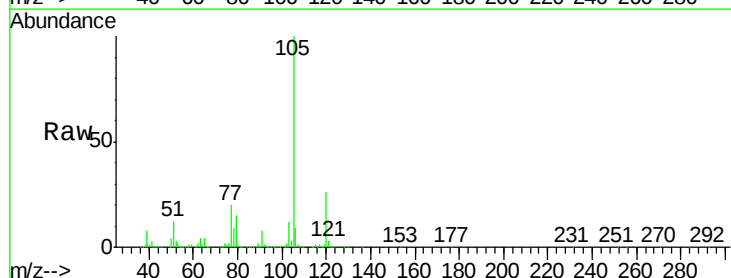
Acq: 29 Feb 2020 3:44

Tgt Ion:105 Resp: 3502865

Ion Ratio Lower Upper

105 100

120 25.4 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.71

1500000

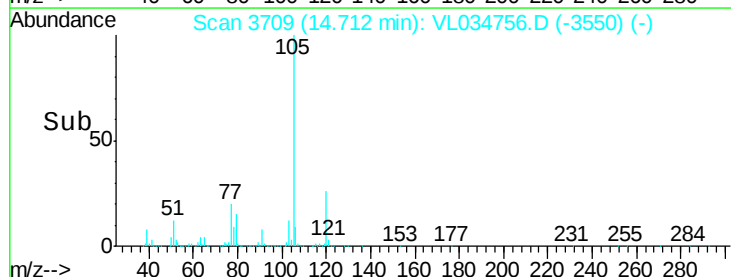
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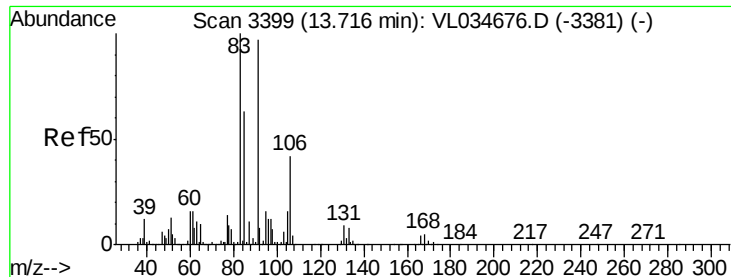
500000

0

14.60 14.70 14.80

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 9.315 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. 0.00 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1685923

Ion Ratio Lower Upper

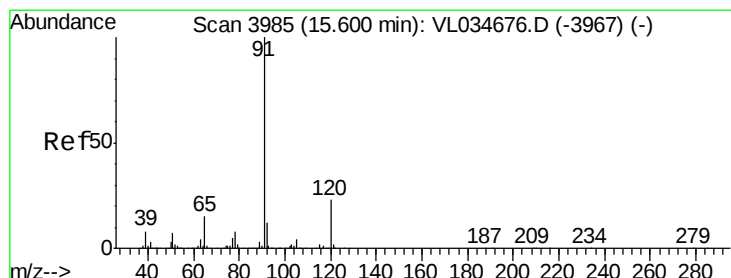
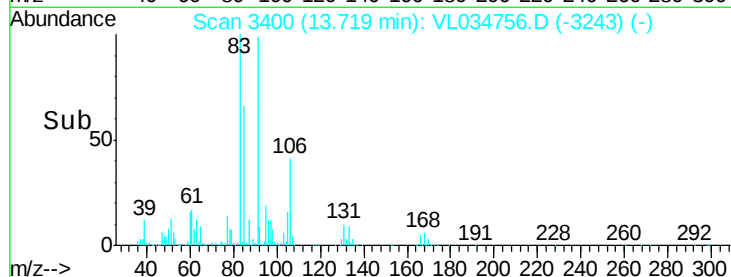
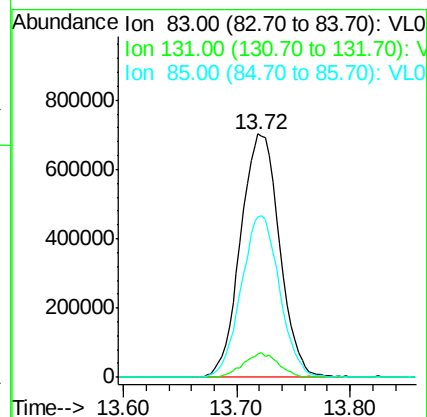
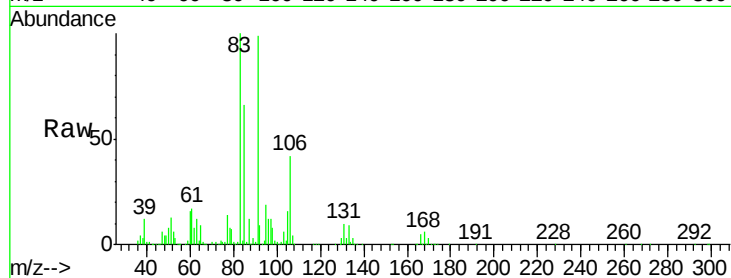
83 100

131 9.2 4.4 13.2

85 65.5 32.5 97.5

Manual Integrations
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#64

n-propylbenzene

Concen: 10.404 ppbv

RT: 15.61 min Scan# 3987

Delta R.T. 0.01 min

Lab File: VL034756.D

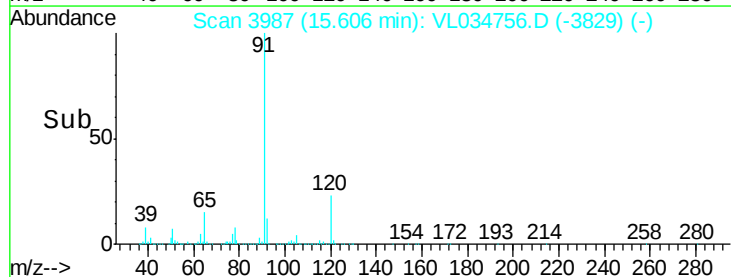
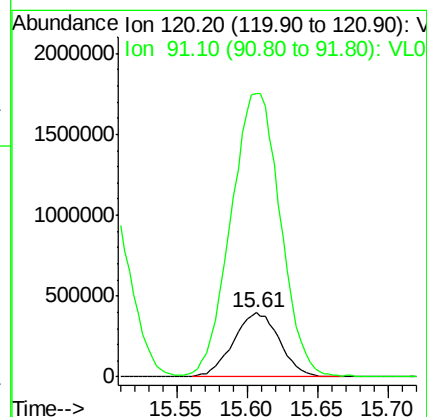
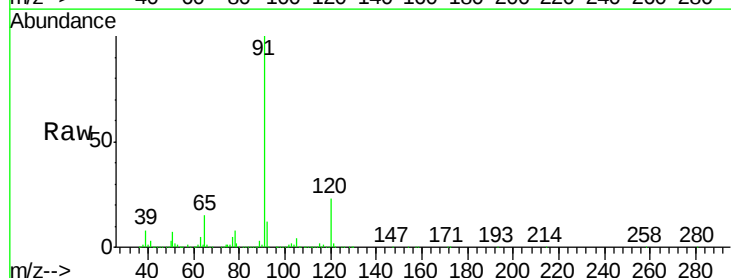
Acq: 29 Feb 2020 3:44

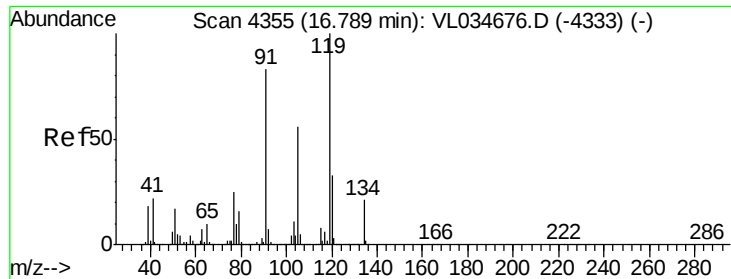
Tgt Ion: 120 Resp: 908558

Ion Ratio Lower Upper

120 100

91 474.7 369.8 554.8





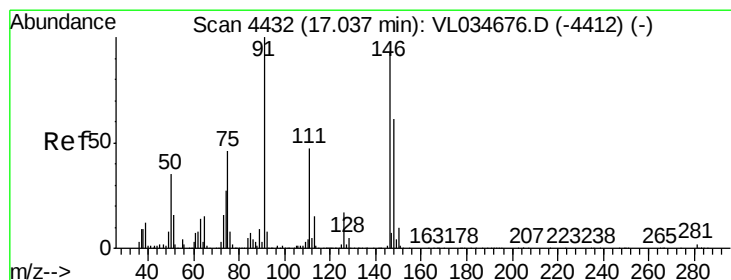
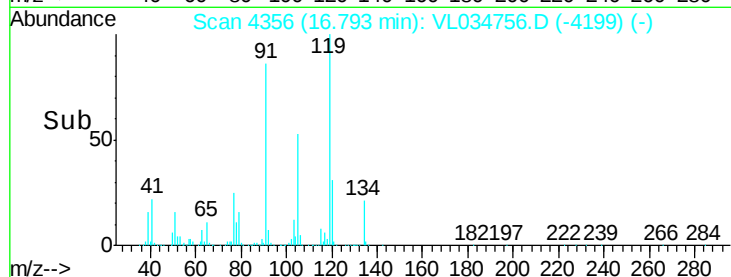
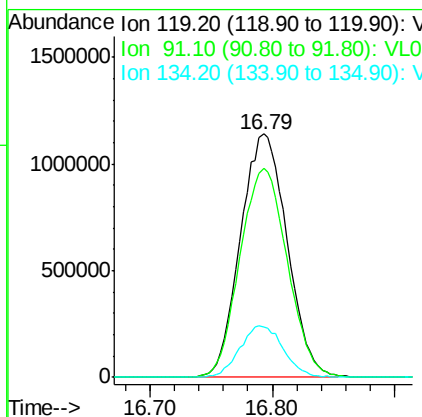
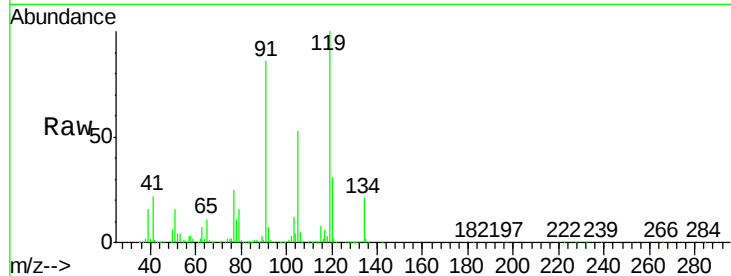
#65
tert-Butylbenzene
Concen: 10.319 ppbv
RT: 16.79 min Scan# 4356
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:119 Resp: 3018347
Ion Ratio Lower Upper
119 100
91 87.3 69.1 103.7
134 19.6 15.8 23.8

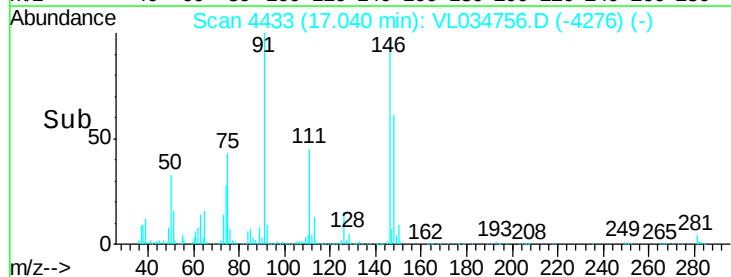
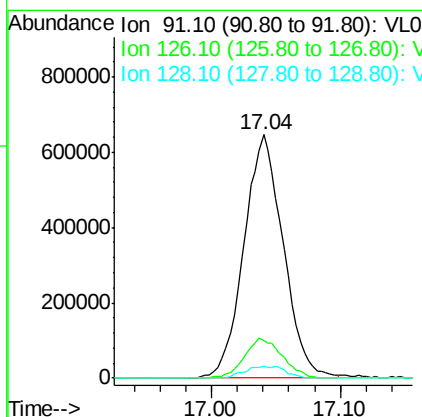
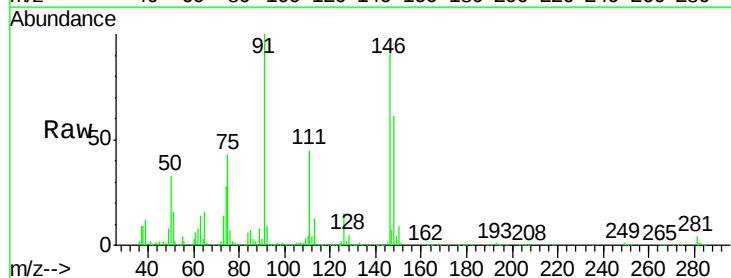
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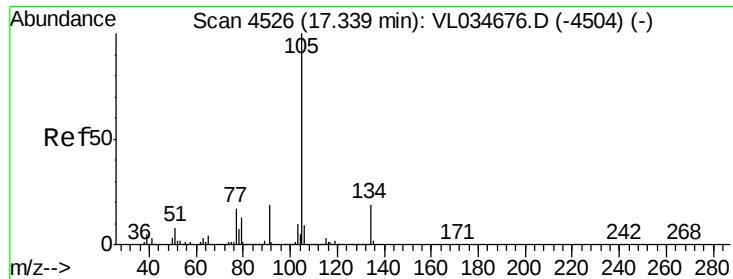
MMDadoda
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#66
Benzyl Chloride
Concen: 12.553 ppbv
RT: 17.04 min Scan# 4433
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion: 91 Resp: 1369601
Ion Ratio Lower Upper
91 100
126 16.0 13.5 20.3
128 5.2 4.2 6.4





#67

sec-Butylbenzene

Concen: 10.354 ppbv

RT: 17.34 min Scan# 4527

Delta R.T. 0.00 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4357906

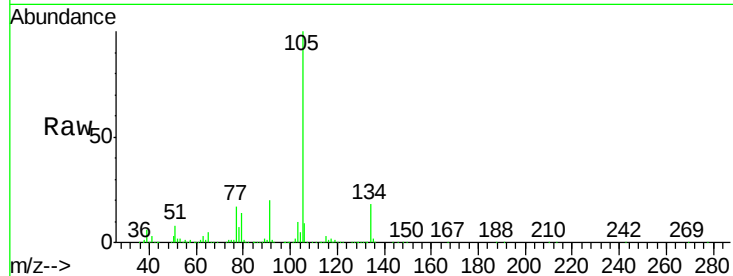
Ion Ratio Lower Upper

105 100

134 17.5 14.8 22.2

Manual Integrations
APPROVED

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2000000

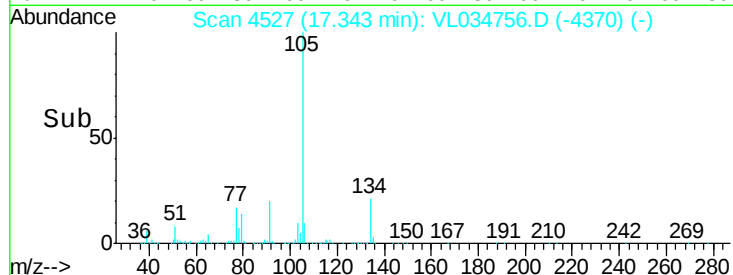
1500000

1000000

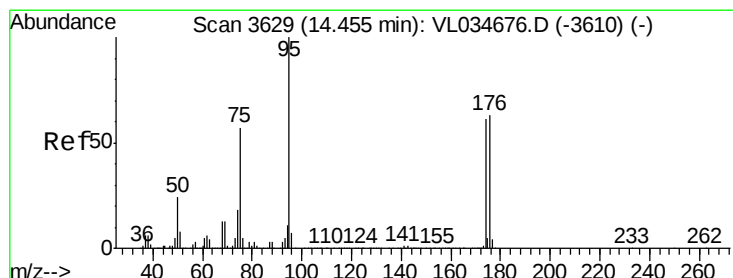
500000

0

17.20 17.30 17.40



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.456 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

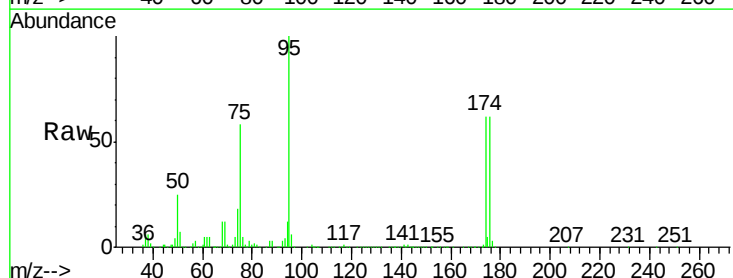
Tgt Ion: 95 Resp: 1719506

Ion Ratio Lower Upper

95 100

174 63.2 50.7 76.1

175 4.6 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1000000

800000

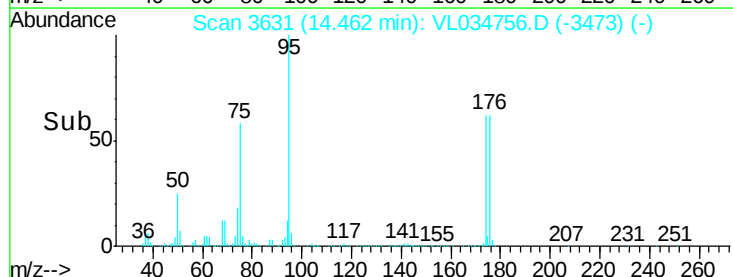
600000

400000

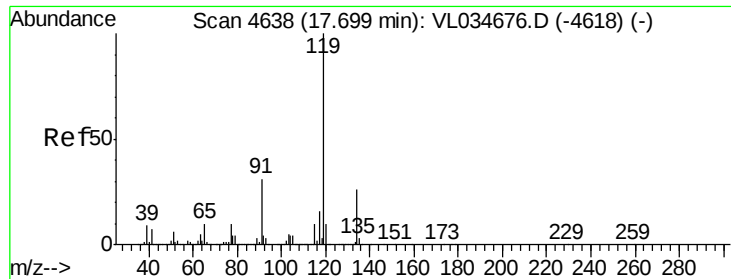
200000

0

14.40 14.50



Time-->



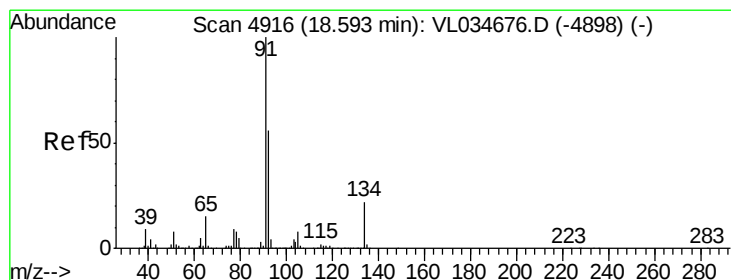
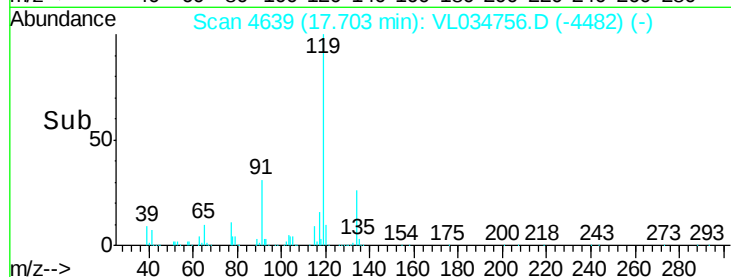
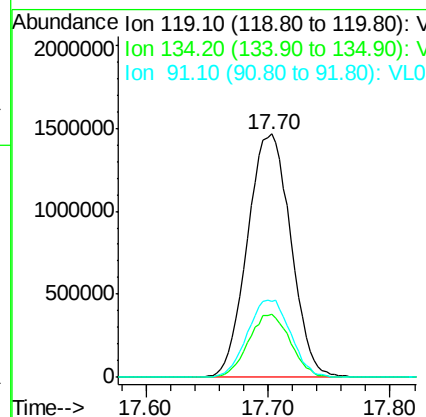
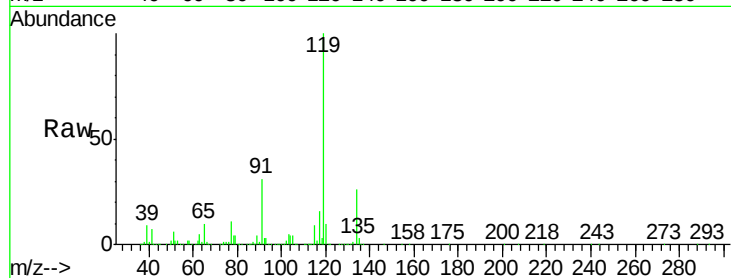
#69
 p-Isopropyltoluene
 Concen: 10.398 ppbv
 RT: 17.70 min Scan# 4639
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.6	31.0
91	31.8	25.3	37.9

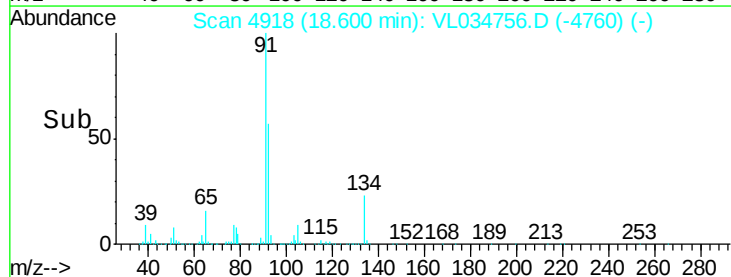
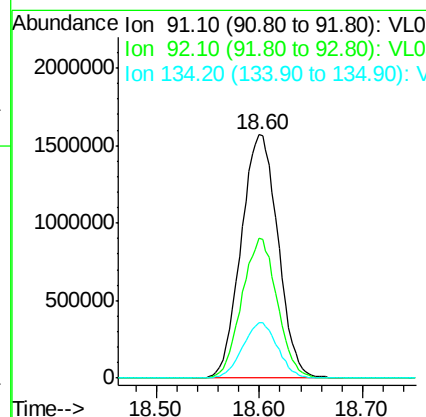
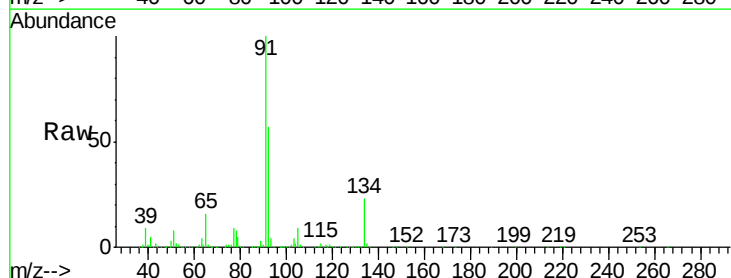
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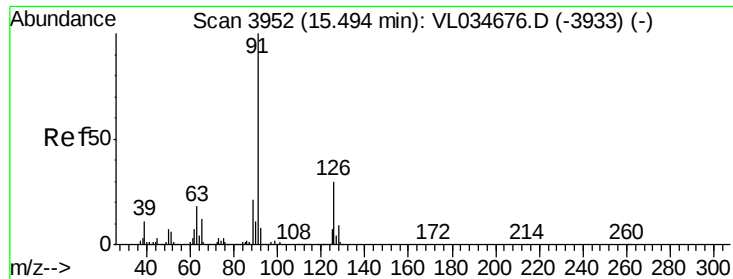
MMDadoda
 3/2/2020 1:02:23 PM



#70
 n-Butylbenzene
 Concen: 10.329 ppbv
 RT: 18.60 min Scan# 4918
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	43.8	65.6
134	21.8	17.6	26.4





#71

2-Chlorotoluene

Concen: 10.385 ppbv

RT: 15.50 min Scan# 3954

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2724516

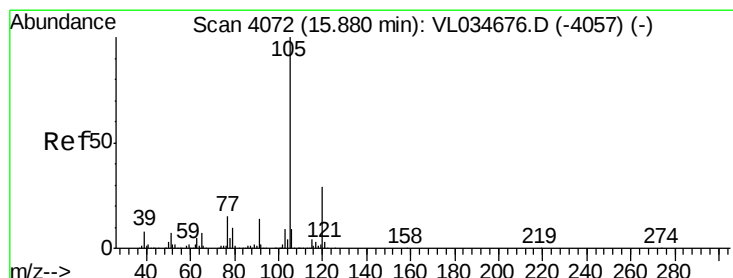
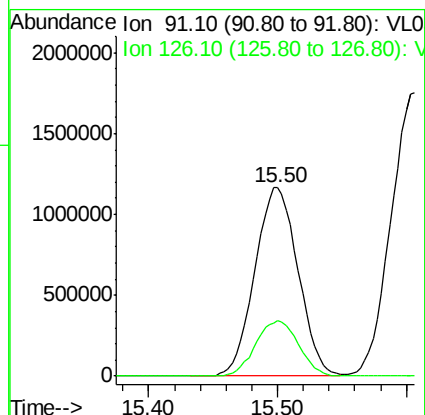
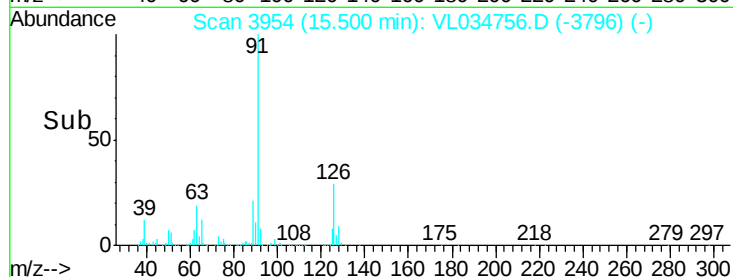
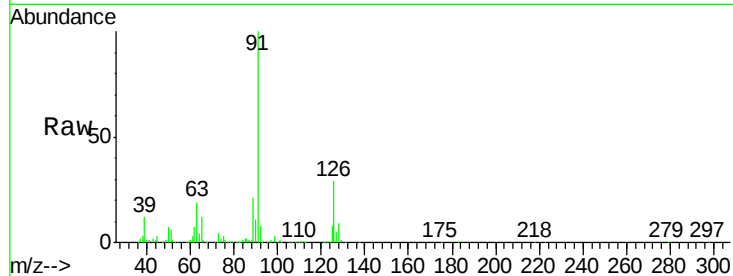
Ion Ratio Lower Upper

91 100

126 29.4 11.8 47.2

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#72

4-Ethyltoluene

Concen: 10.905 ppbv

RT: 15.89 min Scan# 4074

Delta R.T. 0.01 min

Lab File: VL034756.D

Acq: 29 Feb 2020 3:44

Tgt Ion:105 Resp: 2818363

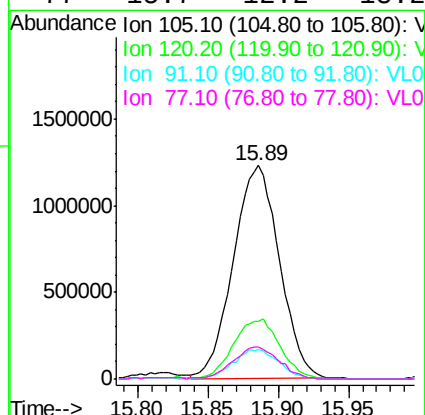
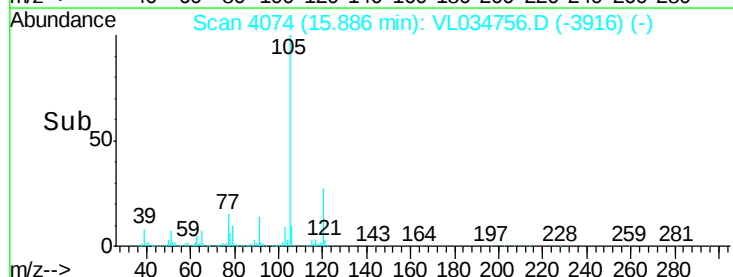
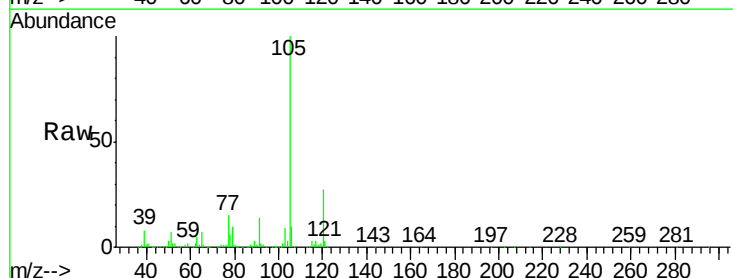
Ion Ratio Lower Upper

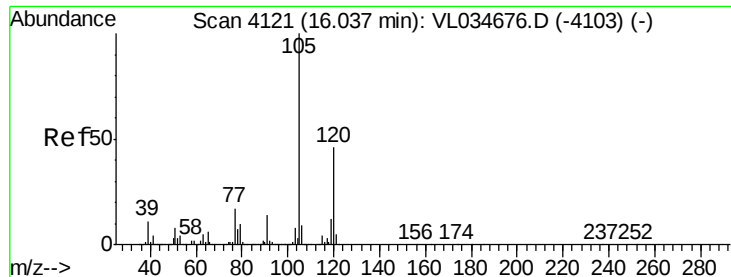
105 100

120 28.4 23.7 35.5

91 13.9 10.9 16.3

77 15.7 12.2 18.2





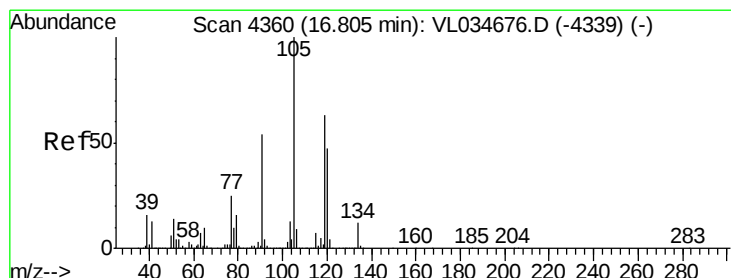
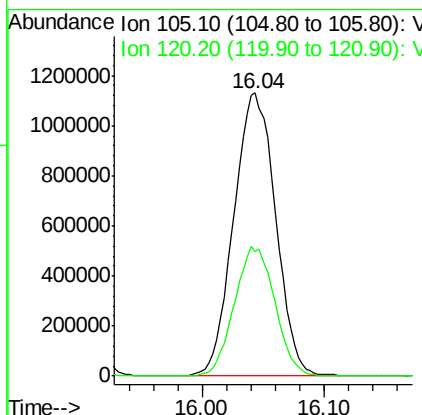
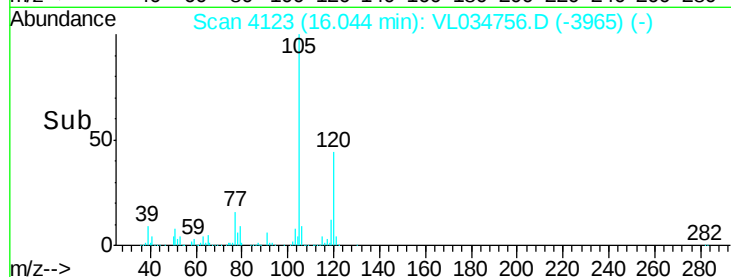
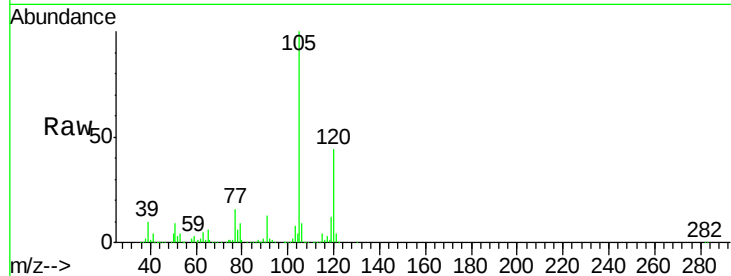
#73
 1,3,5-Trimethylbenzene
 Concen: 10.742 ppbv
 RT: 16.04 min Scan# 4123
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 2670975
 Ion Ratio Lower Upper
 105 100
 120 44.1 37.1 55.7

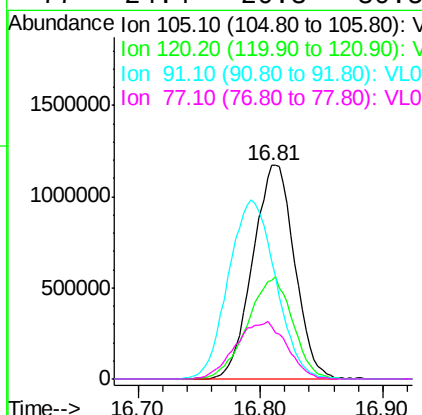
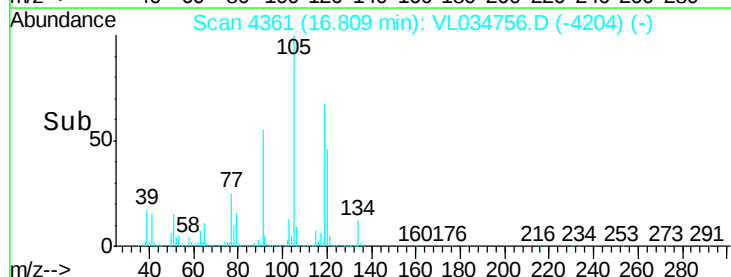
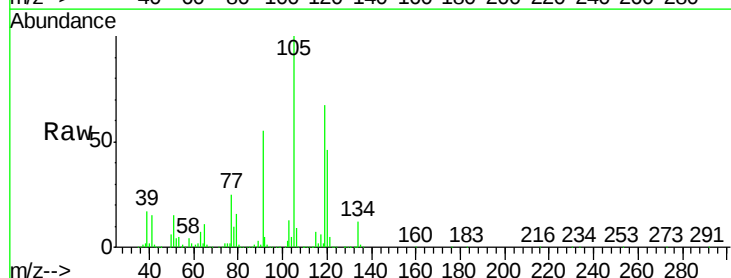
Manual Integrations
 APPROVED

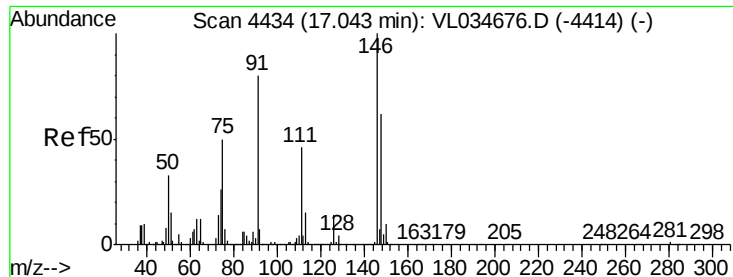
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#74
 1,2,4-Trimethylbenzene
 Concen: 10.148 ppbv
 RT: 16.81 min Scan# 4361
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion:105 Resp: 2786545
 Ion Ratio Lower Upper
 105 100
 120 46.0 37.9 56.9
 91 54.9 43.9 65.9
 77 24.4 20.3 30.5





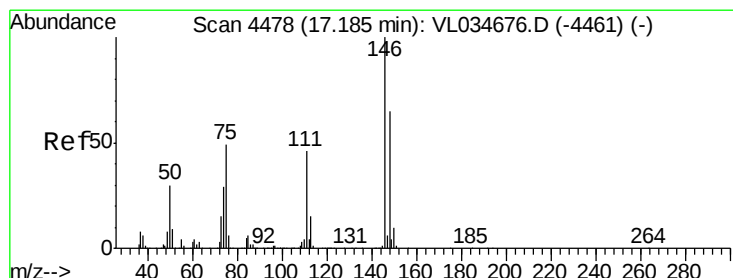
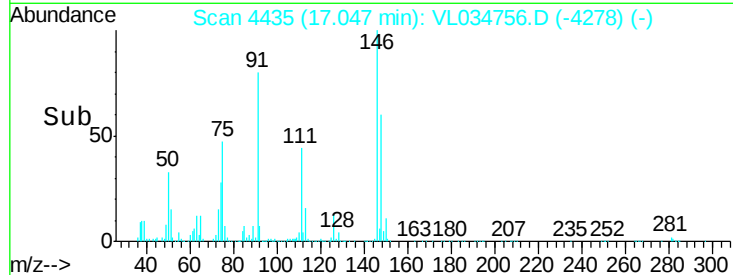
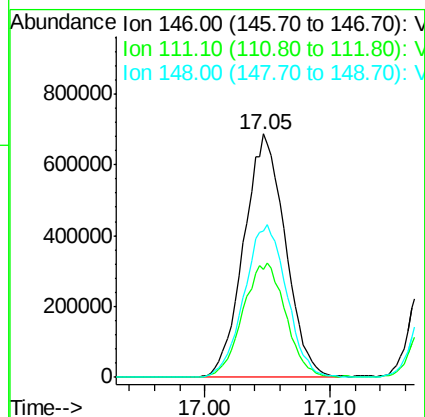
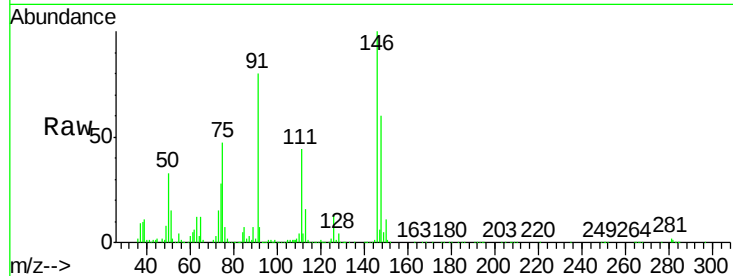
#75
 1,3-Dichlorobenzene
 Concen: 9.954 ppbv
 RT: 17.05 min Scan# 4435
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1577735
 Ion Ratio Lower Upper
 146 100
 111 48.5 24.4 73.2
 148 64.0 32.5 97.4

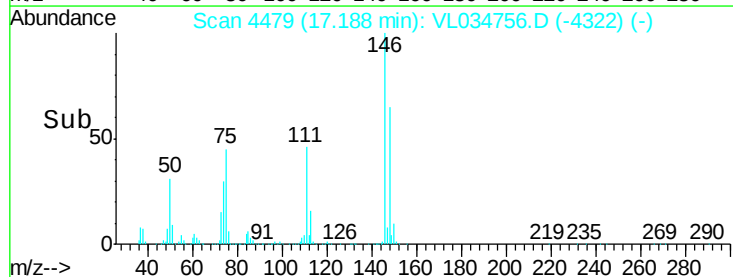
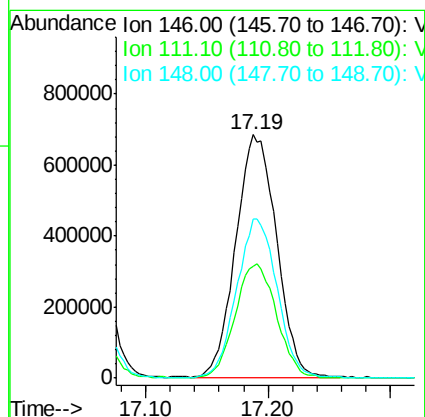
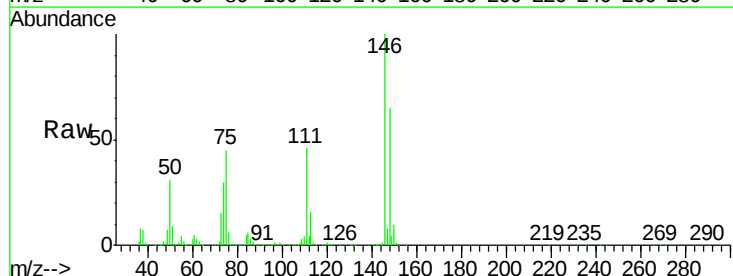
Manual Integrations
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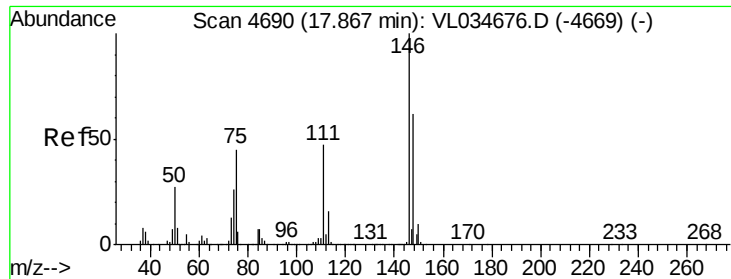
MMDadoda
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#76
 1,4-Dichlorobenzene
 Concen: 10.055 ppbv
 RT: 17.19 min Scan# 4479
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion:146 Resp: 1594571
 Ion Ratio Lower Upper
 146 100
 111 47.5 23.4 70.0
 148 64.9 31.9 95.5





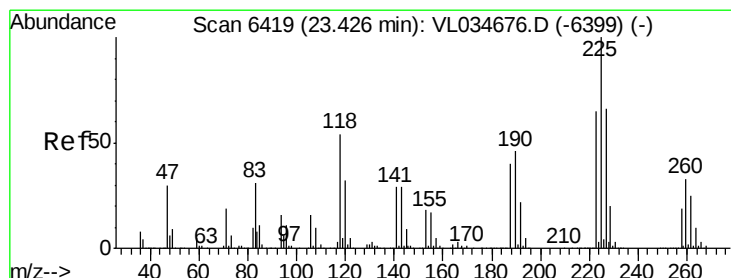
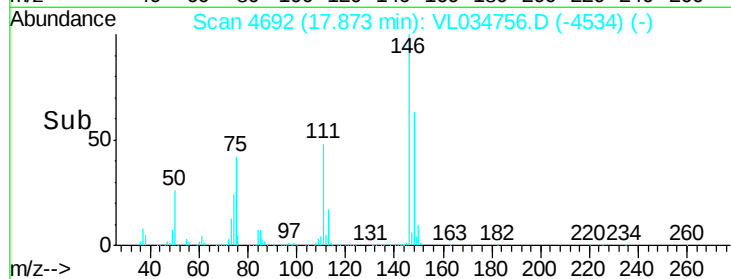
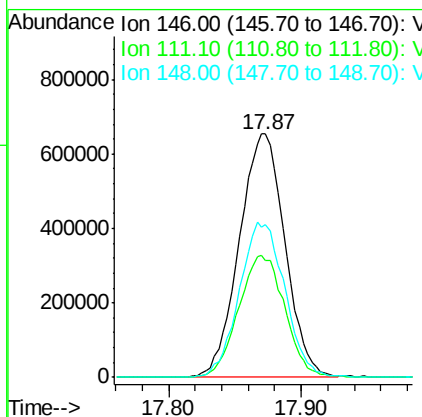
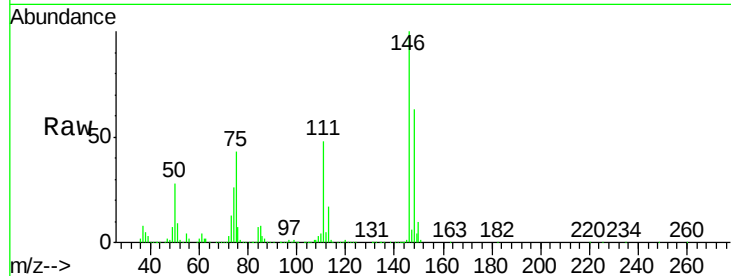
#77
 1,2-Dichlorobenzene
 Concen: 10.197 ppbv
 RT: 17.87 min Scan# 4692
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1562544
 Ion Ratio Lower Upper
 146 100
 111 51.1 24.9 74.7
 148 63.9 32.0 96.0

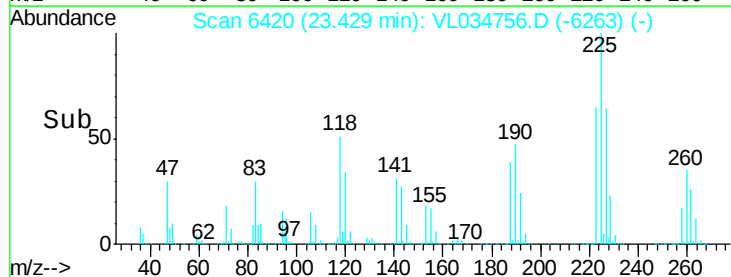
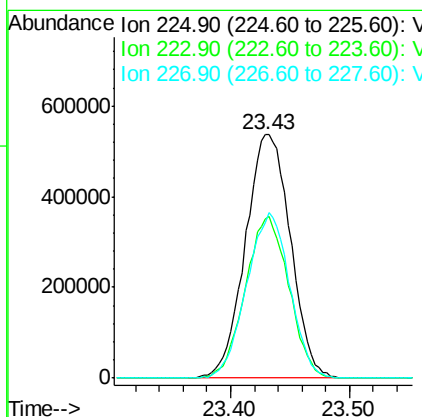
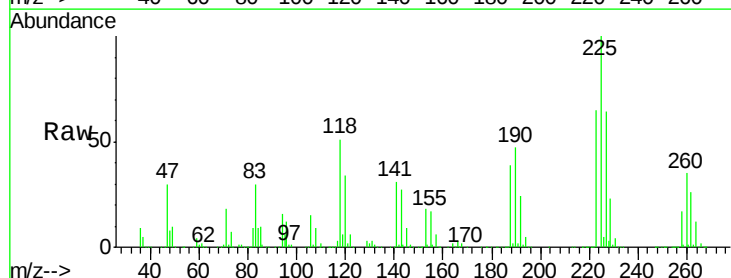
Manual Integrations
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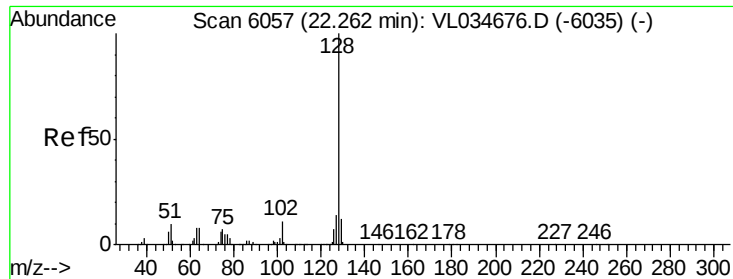
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#78
 Hexachloro-1,3-Butadiene
 Concen: 10.550 ppbv
 RT: 23.43 min Scan# 6420
 Delta R.T. 0.00 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Tgt Ion:225 Resp: 1407678
 Ion Ratio Lower Upper
 225 100
 223 64.0 51.3 76.9
 227 65.0 51.3 76.9





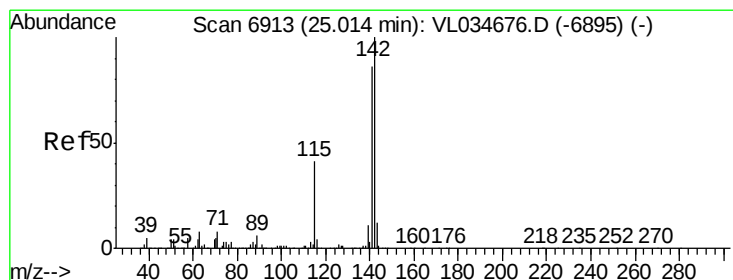
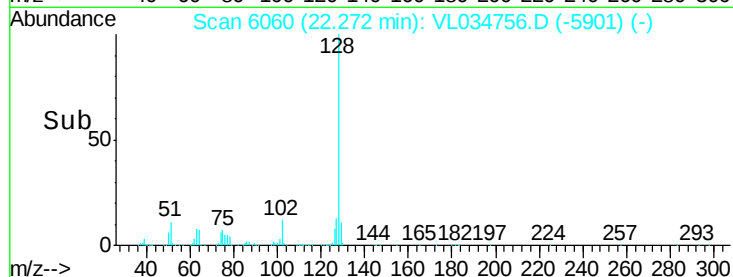
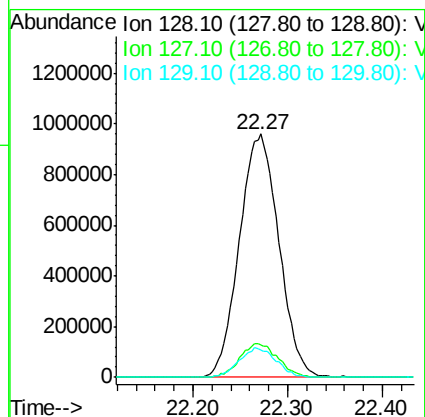
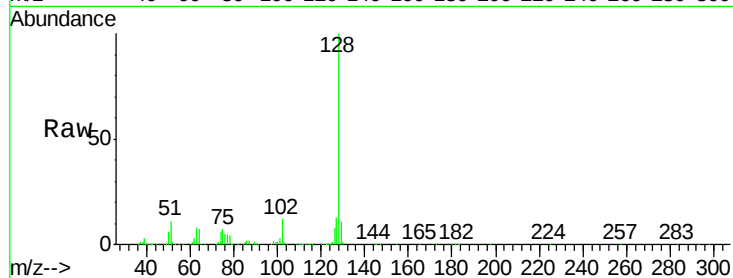
#79
Naphthalene
Concen: 11.511 ppbv
RT: 22.27 min Scan# 6060
Delta R.T. 0.01 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	11.0	16.6
129	11.2	9.4	14.2

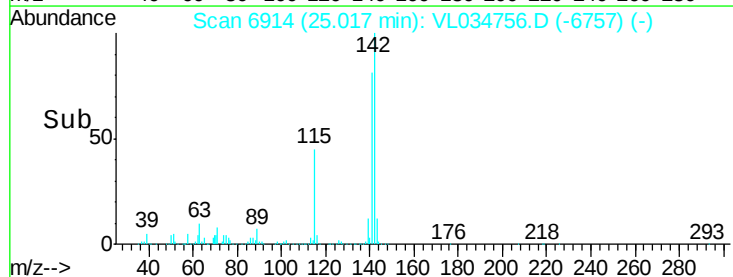
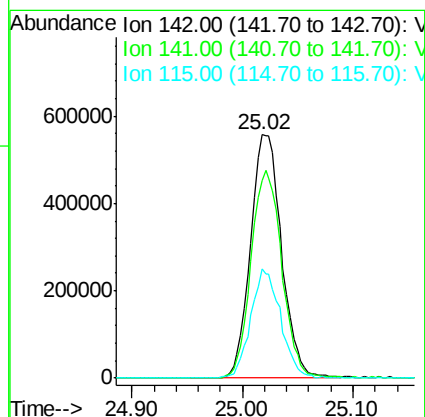
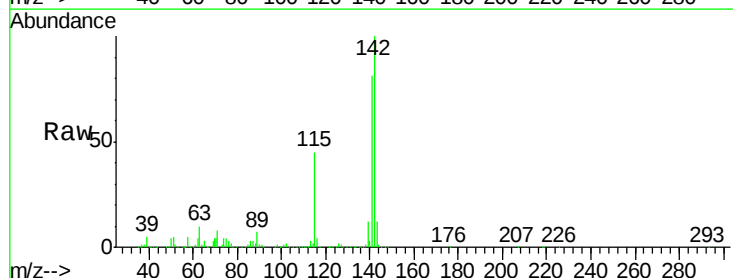
Manual Integrations
APPROVED

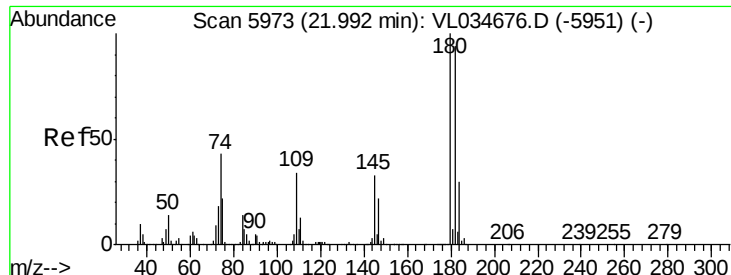
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#80
Naphthalene, 2-methyl-
Concen: 14.601 ppbv
RT: 25.02 min Scan# 6914
Delta R.T. 0.00 min
Lab File: VL034756.D
Acq: 29 Feb 2020 3:44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.8	66.5	99.7
115	43.5	30.6	46.0





#81
 1,2,4-Trichlorobenzene
 Concen: 10.997 ppbv m
 RT: 22.00 min Scan# 5976
 Delta R.T. 0.01 min
 Lab File: VL034756.D
 Acq: 29 Feb 2020 3:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.5	114.7
184	31.3	25.2	37.8

Manual Integrations
 APPROVED

MMDadoda
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