

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\
 Data File : VL034732.D
 Acq On : 28 Feb 2020 9:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

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 3/2/2020 1:01:07 PM

Quant Time: Mar 02 04:45:20 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	5.66	49	1045736	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2217916	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2370465m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1896212	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1290111	7.820	ppbv	96
3) Chlorodifluoromethane	2.95	51	1164990	10.323	ppbv	97
4) Chloromethane	3.11	50	648519	10.266	ppbv	99
5) Vinyl Chloride	3.22	62	631171	10.184	ppbv	98
6) Bromomethane	3.44	94	371635	10.235	ppbv	97
7) Chloroethane	3.53	64	230424	10.015	ppbv	92
8) Dichlorotetrafluoroethane	3.15	85	1390701	9.531	ppbv	98
9) Propene	2.97	41	522234	11.070	ppbv	99
10) Heptane	8.14	43	1349060	11.110	ppbv	99
11) Trichlorofluoromethane	3.93	101	1414198	9.787	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	975210	9.575	ppbv	94
13) Ethanol	3.58	45	149498	10.032	ppbv	98
14) Bromoethene	3.71	108	432317	10.173	ppbv	99
15) Acetone	3.83	43	1137949	9.550	ppbv	98
16) 1,3-Butadiene	3.29	39	591009	10.714	ppbv	97
17) tert-Butyl alcohol	4.27	59	1183925	12.965	ppbv	99
18) 1,1-Dichloroethene	4.27	96	455534	9.962	ppbv	91
19) Isopropyl Alcohol	3.95	45	893307	12.586	ppbv	# 98
20) Methylene Chloride	4.32	84	399062	9.005	ppbv	97
21) Allyl Chloride	4.39	41	824697	10.460	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	455462	10.216	ppbv	92
23) Vinyl Acetate	5.06	43	1894666	11.695	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1300876	10.055	ppbv	99
25) Ethyl Acetate	5.67	43	2277371	10.796	ppbv	100
26) Hexane	5.68	57	993808	10.222	ppbv	96
27) Carbon Disulfide	4.53	76	1192756	10.808	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	1574113	11.333	ppbv	100
29) Chloroform	5.75	83	1547180	9.988	ppbv	98
30) Cyclohexane	7.14	84	833131	11.057	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1049710	10.971	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	1523467	10.532	ppbv	99
34) 2-Butanone	5.24	43	1514323	10.847	ppbv	99
35) Carbon Tetrachloride	7.03	117	1534075	10.328	ppbv	96
36) Benzene	6.90	78	2012592	10.506	ppbv	94
37) 1,2-Dichloroethane	6.31	62	1224797	10.143	ppbv	100
38) Trichloroethene	7.85	130	731050	9.901	ppbv	97
39) 1,2-Dichloropropane	7.63	63	812348	10.659	ppbv	97
40) 1,4-Dioxane	7.84	88	297321	11.472	ppbv	# 1
41) Tetrahydrofuran	6.04	42	855873	11.615	ppbv	99
42) Bromodichloromethane	7.81	83	1678019	10.614	ppbv	99
43) Methyl Methacrylate	8.03	69	934319	11.596	ppbv	99

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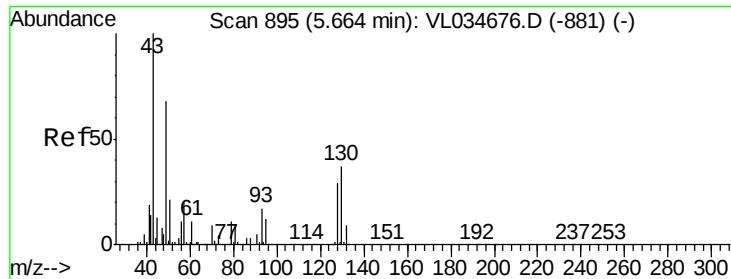
Manual Integrations
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Quant Time: Mar 02 04:45:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3470388	10.366	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1103462	12.550	ppbv	97
46) cis-1,3-Dichloropropene	8.73	75	1284249	12.179	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	828992	10.603	ppbv	97
48) Dibromochloromethane	10.33	129	1361760	11.201	ppbv	99
49) Bromoform	13.08	173	1195472	11.341	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2234748	11.302	ppbv	99
51) 2-Hexanone	10.16	43	1848770	11.881	ppbv #	99
52) Tetrachloroethene	11.25	164	697788	9.938	ppbv	97
53) Toluene	9.83	91	2290364	11.241	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1259125	10.795	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	1005189	9.957	ppbv	98
57) Chlorobenzene	12.18	112	1676115	9.567	ppbv	98
58) Ethyl Benzene	12.75	91	3067553	10.696	ppbv	99
59) m/p-Xylene	13.01	91	5016856m	20.056	ppbv	
60) o-Xylene	13.73	91	2486113	10.016	ppbv	99
61) Styrene	13.56	104	1779480	11.160	ppbv	98
62) Isopropylbenzene	14.71	105	3665009	10.122	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	1777805	9.190	ppbv	100
64) n-propylbenzene	15.60	120	935061	10.017	ppbv	91
65) tert-Butylbenzene	16.79	119	3137139	10.034	ppbv	99
66) Benzyl Chloride	17.03	91	1462055	12.536	ppbv	99
67) sec-Butylbenzene	17.34	105	4507720	10.019	ppbv	99
69) p-Isopropyltoluene	17.70	119	3734620	10.084	ppbv	99
70) n-Butylbenzene	18.59	91	4037003	10.010	ppbv	100
71) 2-Chlorotoluene	15.49	91	2871332	10.239	ppbv	100
72) 4-Ethyltoluene	15.88	105	2951733	10.684	ppbv	98
73) 1,3,5-Trimethylbenzene	16.04	105	2781756	10.467	ppbv	96
74) 1,2,4-Trimethylbenzene	16.81	105	2839675	9.675	ppbv	94
75) 1,3-Dichlorobenzene	17.05	146	1620927	9.567	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1598785	9.432	ppbv	96
77) 1,2-Dichlorobenzene	17.87	146	1577415	9.630	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1393752	9.772	ppbv	99
79) Naphthalene	22.27	128	2723500	10.544	ppbv	100
80) Naphthalene, 2-methyl-	25.02	142	1265012	15.877	ppbv	94
81) 1,2,4-Trichlorobenzene	22.00	180	1542831	10.008	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034732.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1045736

Ion Ratio Lower Upper

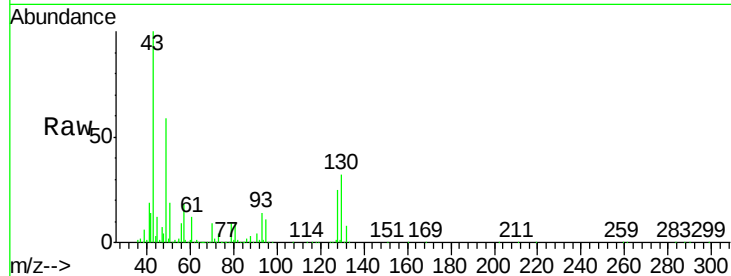
49 100

128 42.9 21.6 65.0

130 54.6 27.7 83.1

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

400000

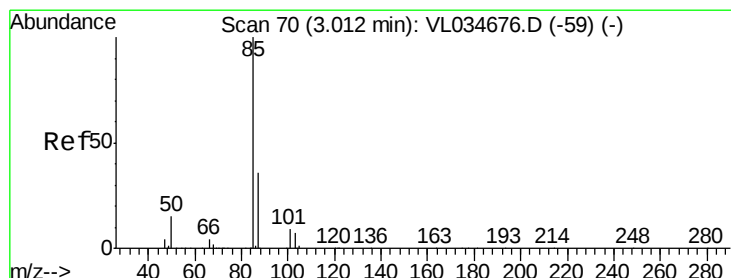
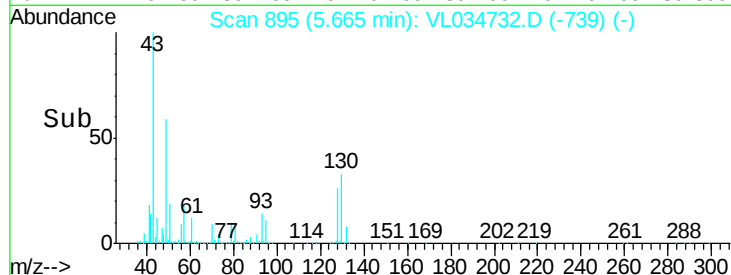
200000

0

5.66

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 7.820 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034732.D

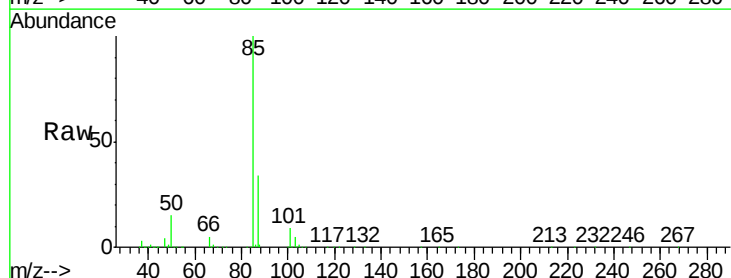
Acq: 28 Feb 2020 9:16

Tgt Ion: 85 Resp: 1290111

Ion Ratio Lower Upper

85 100

87 34.0 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1200000

1000000

800000

600000

400000

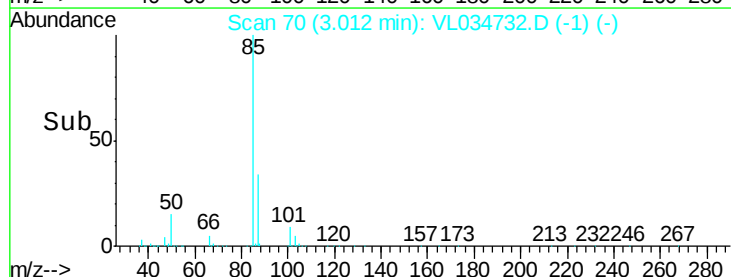
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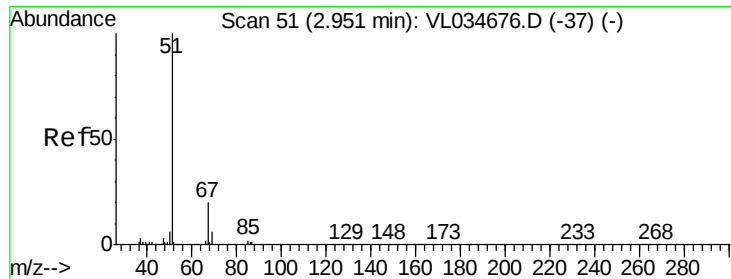
0

3.01

2.95 3.00 3.05

Time-->





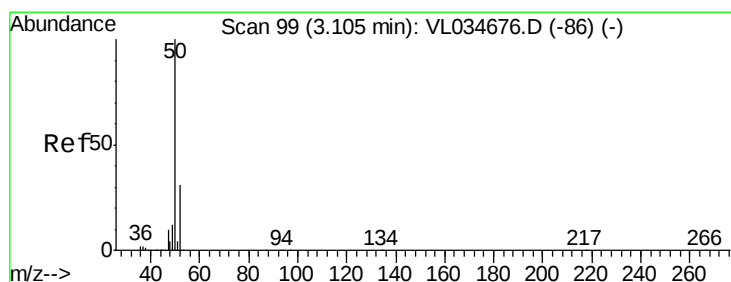
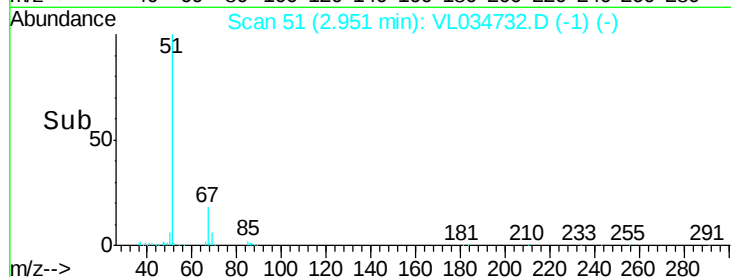
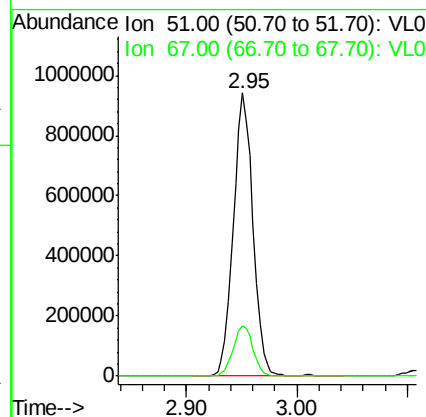
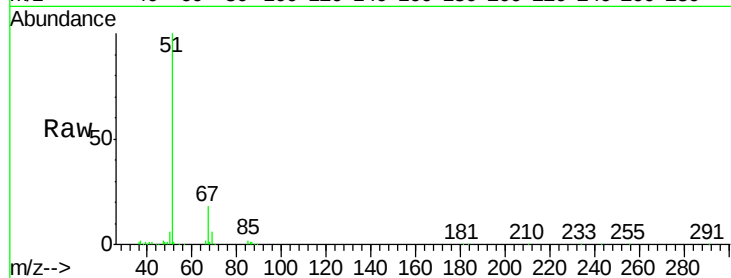
#3
Chlorodifluoromethane
Concen: 10.323 ppbv
RT: 2.95 min Scan# 51
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1164990
Ion Ratio Lower Upper
51 100
67 18.2 15.5 23.3

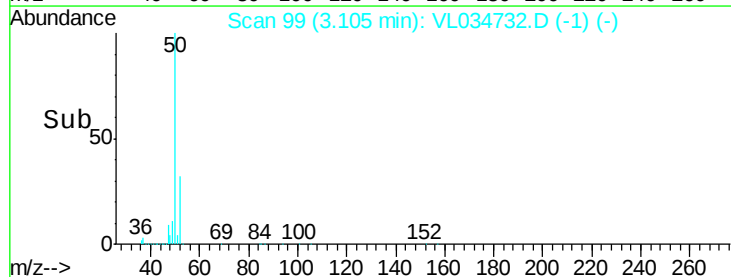
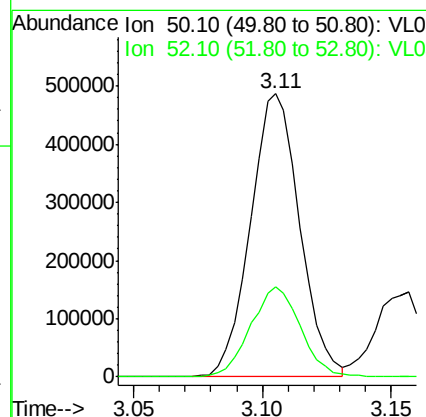
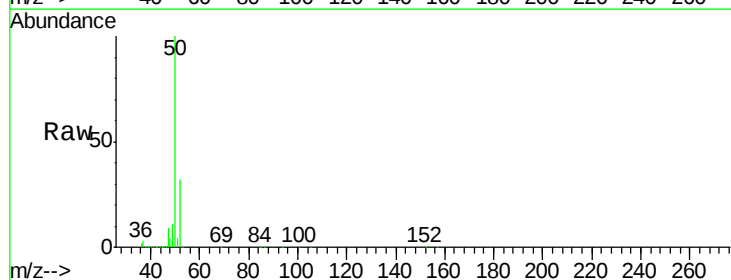
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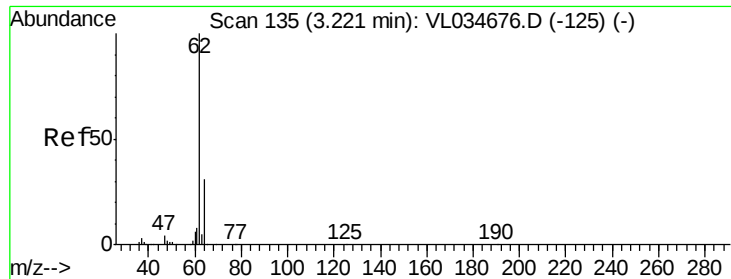
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#4
Chloromethane
Concen: 10.266 ppbv
RT: 3.11 min Scan# 99
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion: 50 Resp: 648519
Ion Ratio Lower Upper
50 100
52 31.8 25.0 37.4





#5

Vinyl Chloride

Concen: 10.184 ppbv

RT: 3.22 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 631171

Ion Ratio Lower Upper

62 100

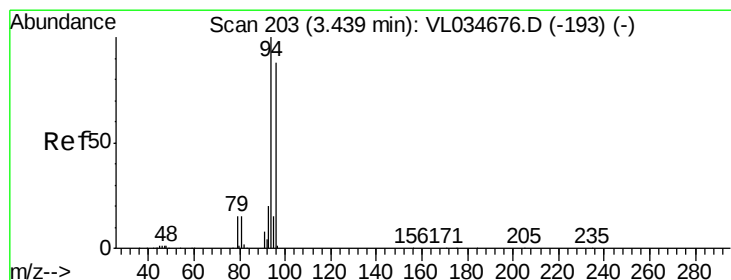
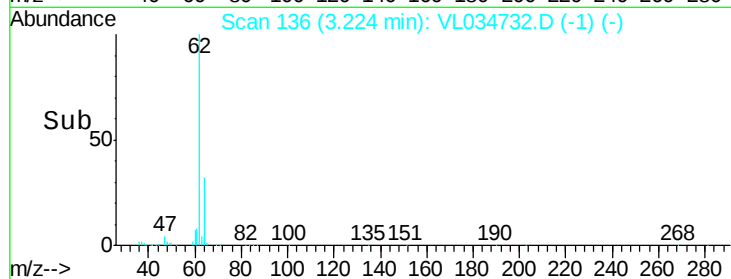
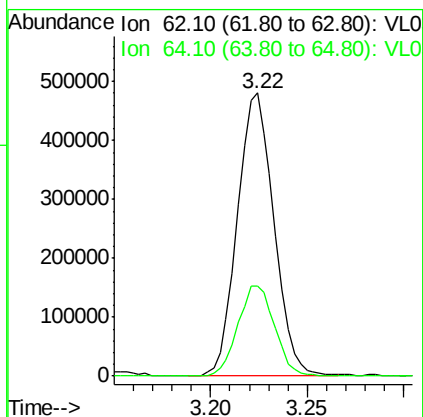
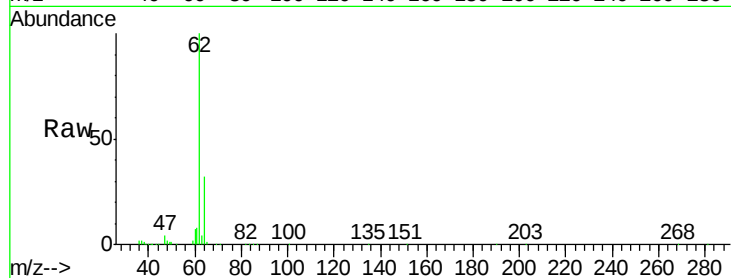
64 31.8 24.7 37.1

Manual Integrations

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3/2/2020 1:01:07 PM



#6

Bromomethane

Concen: 10.235 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034732.D

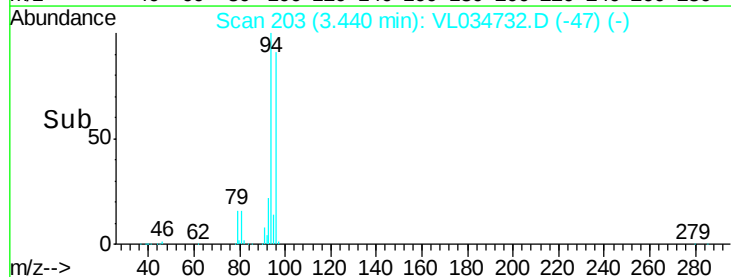
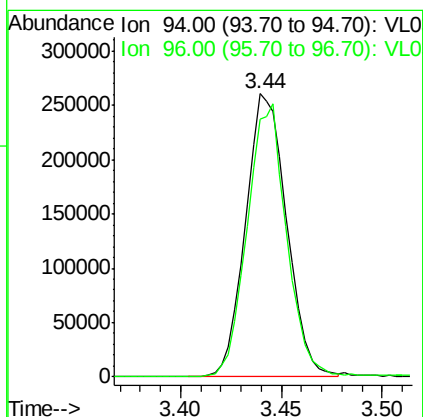
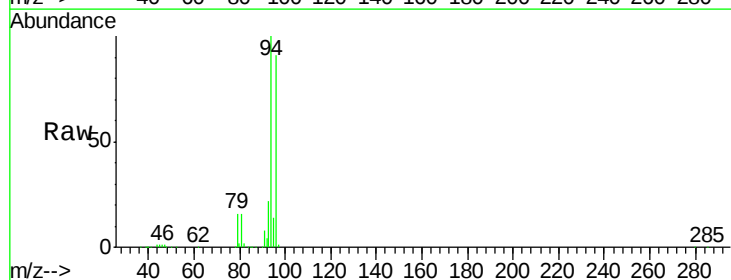
Acq: 28 Feb 2020 9:16

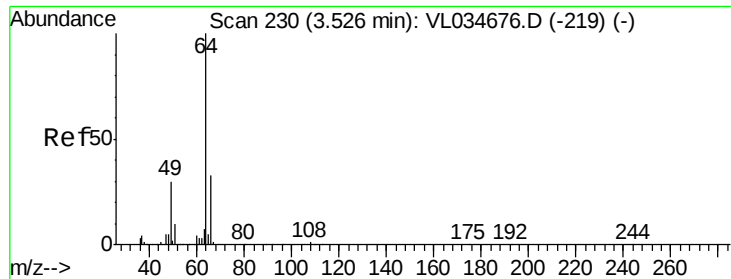
Tgt Ion: 94 Resp: 371635

Ion Ratio Lower Upper

94 100

96 91.0 70.5 105.7





#7

Chloroethane

Concen: 10.015 ppbv

RT: 3.53 min Scan# 231

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 230424

Ion Ratio Lower Upper

64 100

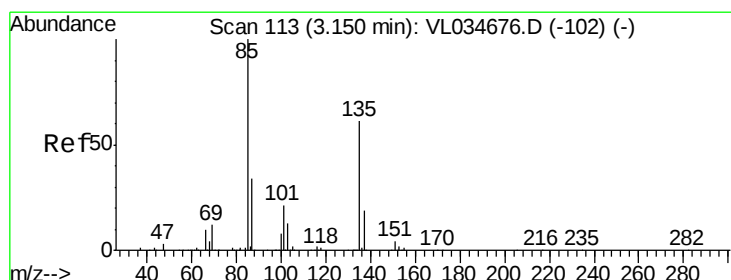
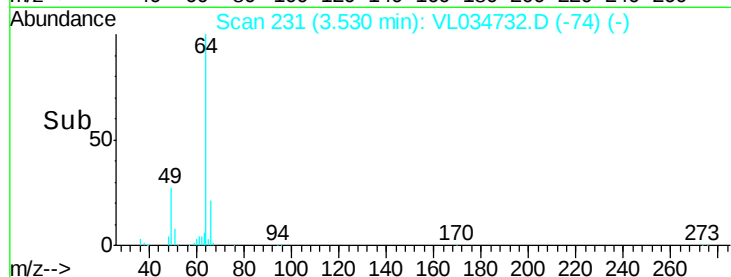
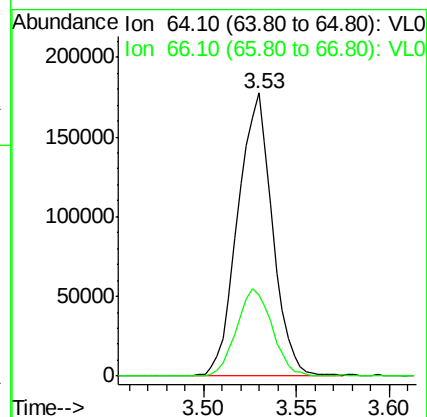
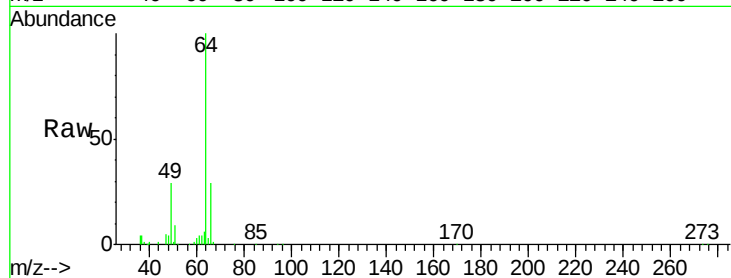
66 28.7 26.7 40.1

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.531 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034732.D

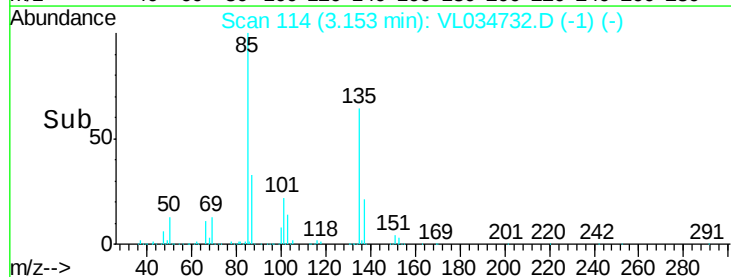
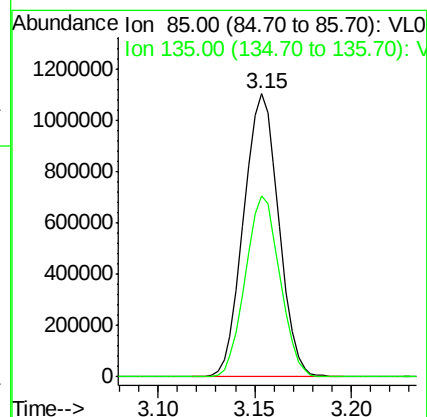
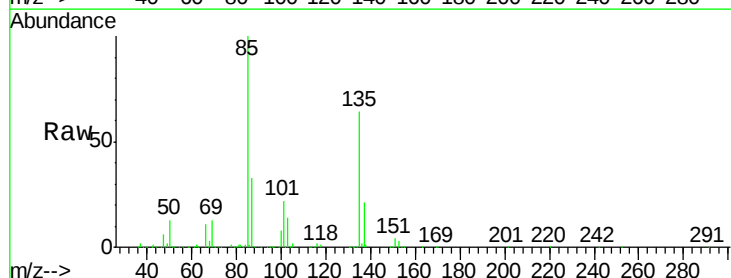
Acq: 28 Feb 2020 9:16

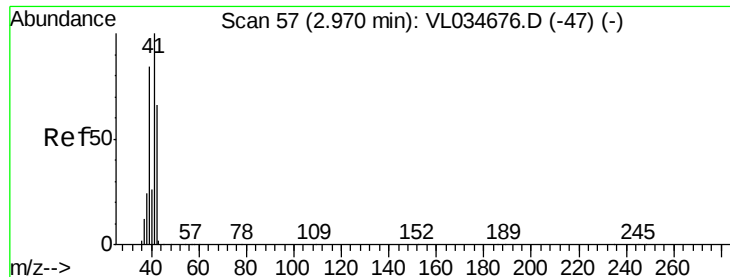
Tgt Ion: 85 Resp: 1390701

Ion Ratio Lower Upper

85 100

135 63.5 49.8 74.6





#9

Propene

Concen: 11.070 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 522234

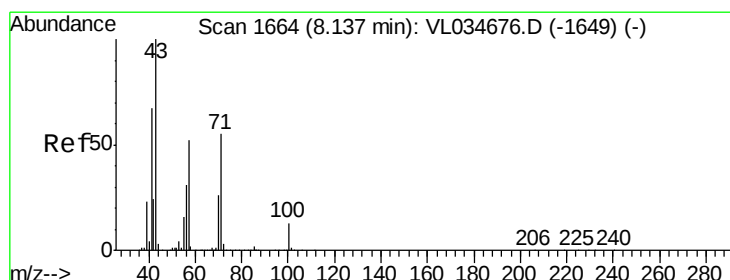
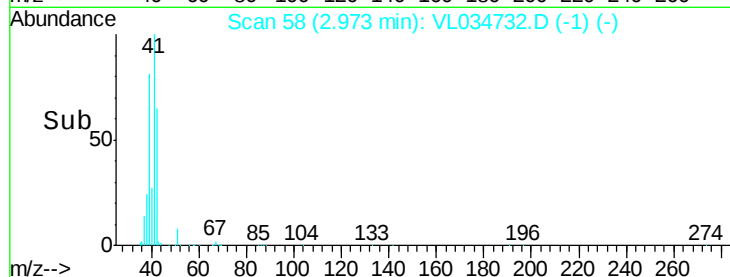
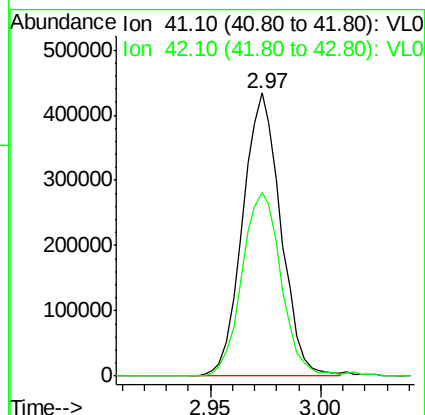
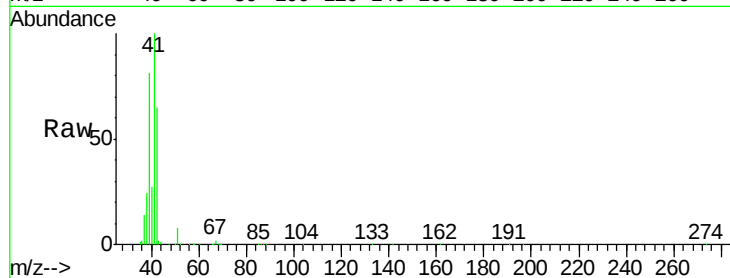
Ion Ratio Lower Upper

41 100

42 67.7 54.9 82.3

Manual Integrations
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#10

Heptane

Concen: 11.110 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL034732.D

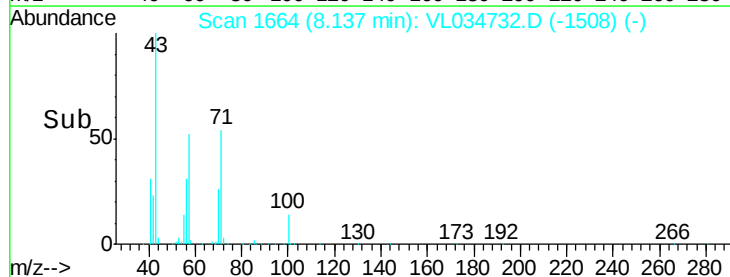
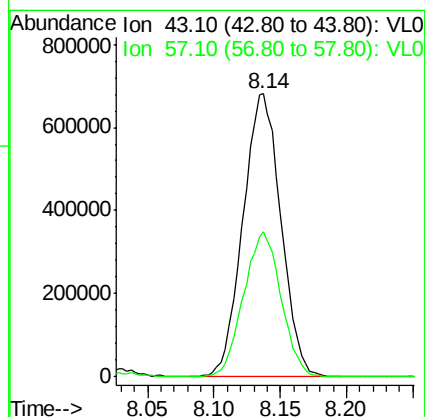
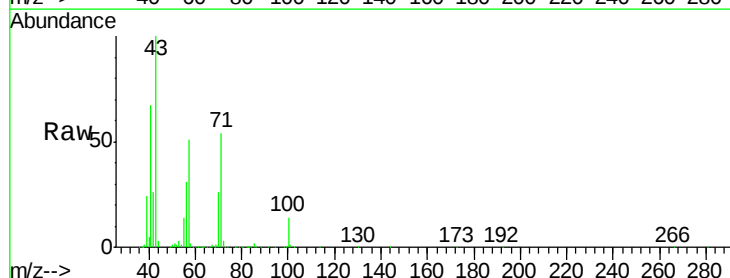
Acq: 28 Feb 2020 9:16

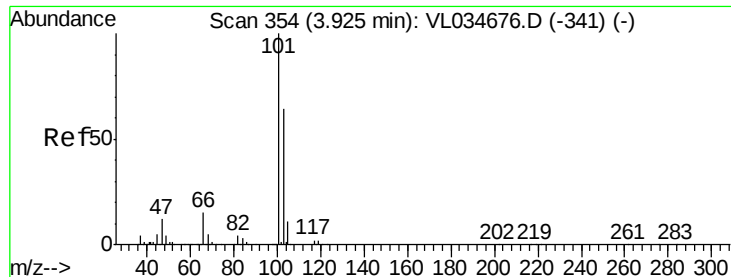
Tgt Ion: 43 Resp: 1349060

Ion Ratio Lower Upper

43 100

57 50.8 41.0 61.6





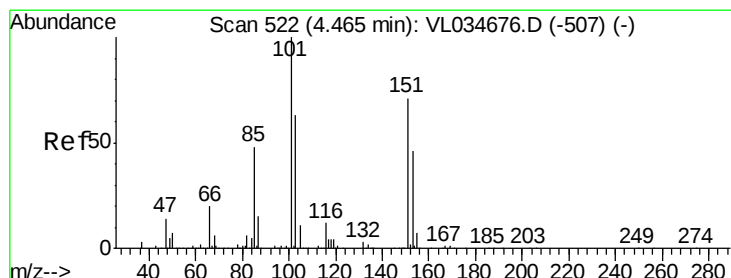
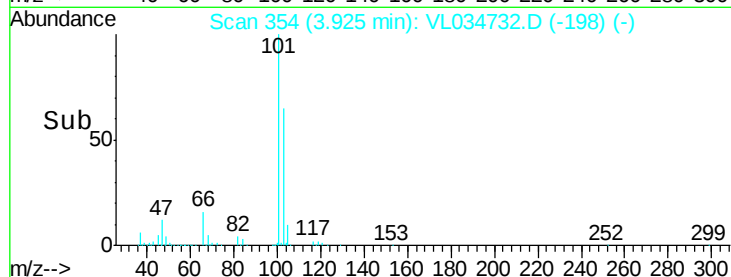
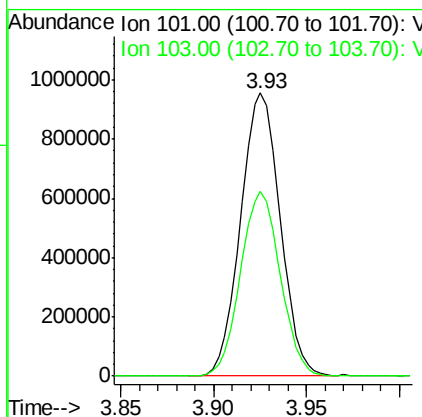
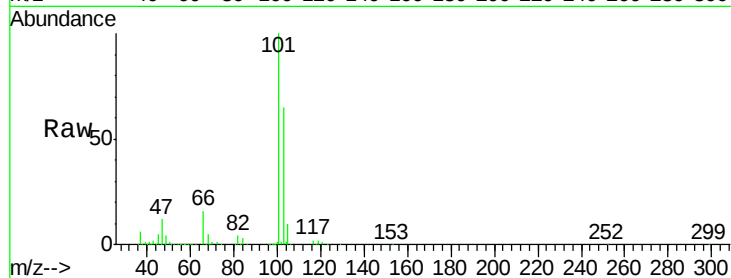
#11
 Trichlorofluoromethane
 Concen: 9.787 ppbv
 RT: 3.93 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1414198
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.2 76.8

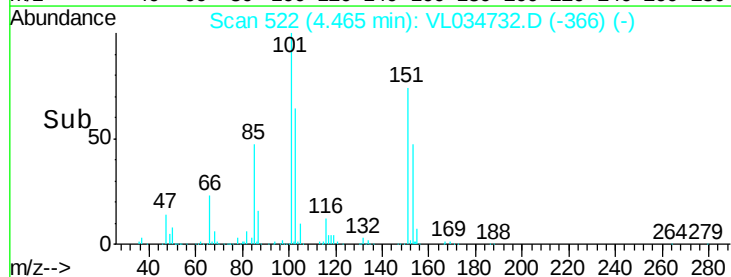
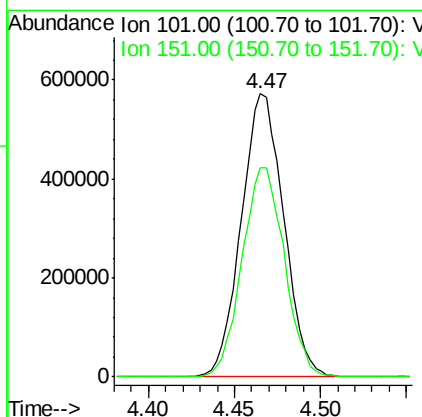
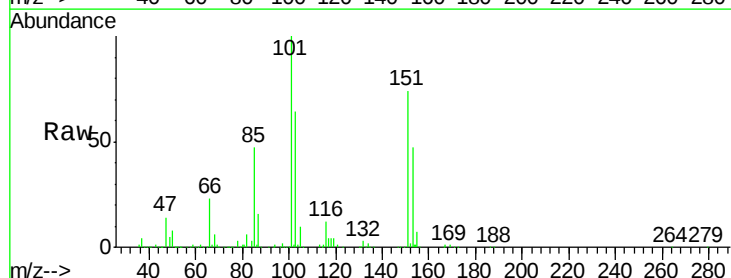
Manual Integrations
 APPROVED

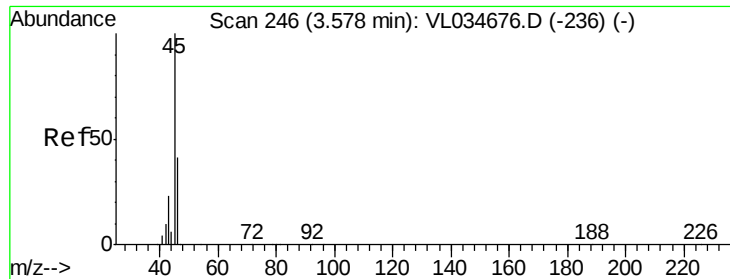
MMDadoda
 3/2/2020 1:01:07 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.575 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Tgt Ion:101 Resp: 975210
 Ion Ratio Lower Upper
 101 100
 151 74.2 55.8 83.6





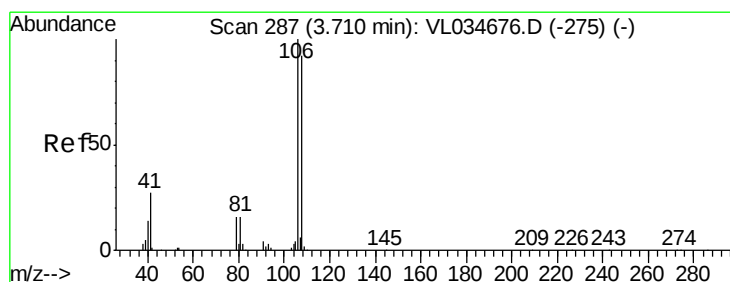
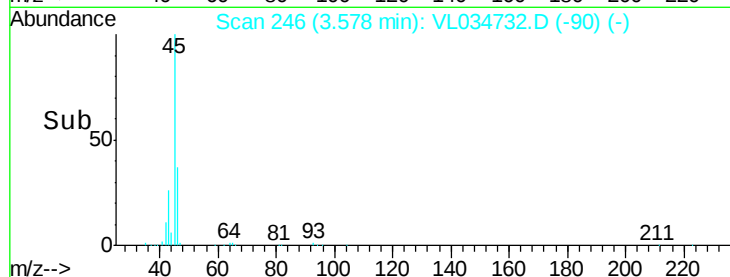
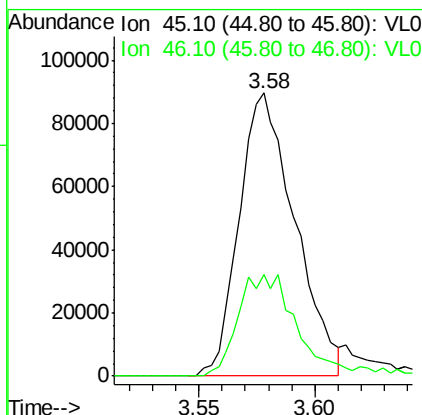
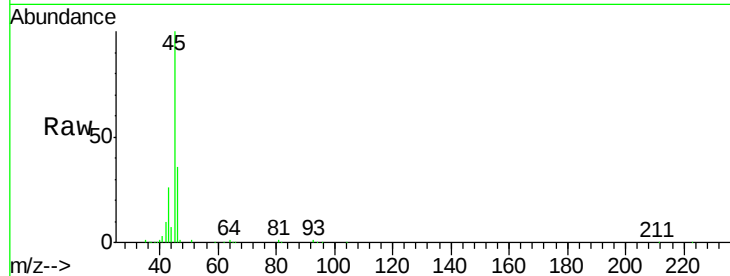
#13
Ethanol
Concen: 10.032 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 149498
Ion Ratio Lower Upper
45 100
46 39.9 15.4 61.4

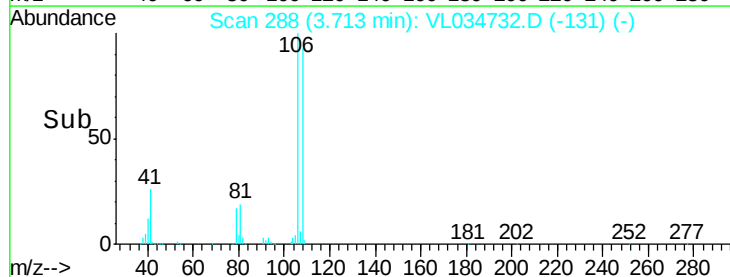
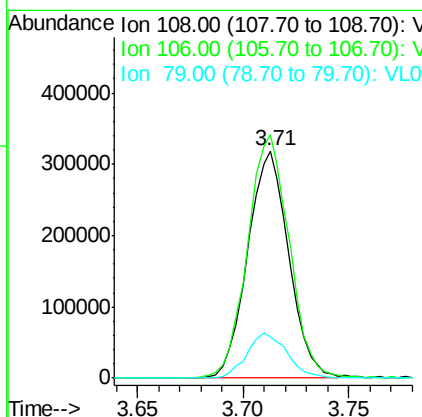
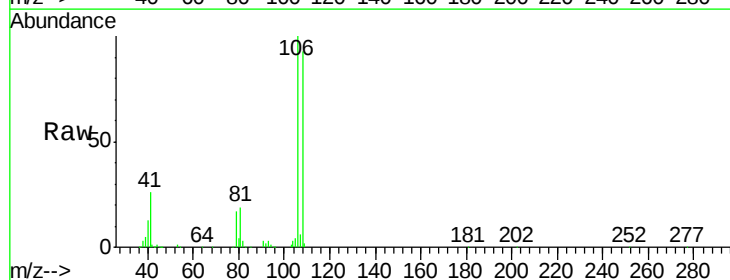
Manual Integrations
APPROVED

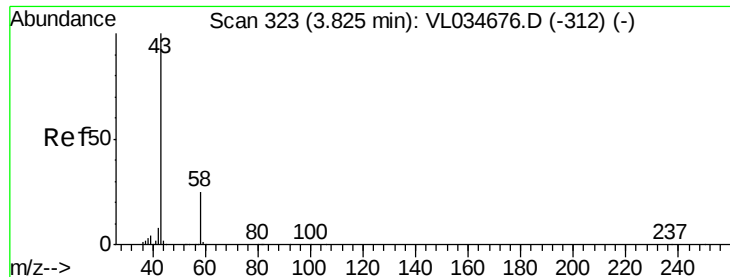
MMDadoda
3/2/2020 1:01:07 PM



#14
Bromoethene
Concen: 10.173 ppbv
RT: 3.71 min Scan# 288
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion: 108 Resp: 432317
Ion Ratio Lower Upper
108 100
106 108.9 86.7 130.1
79 19.7 15.0 22.6





#15

Acetone

Concen: 9.550 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1137949

Ion Ratio Lower Upper

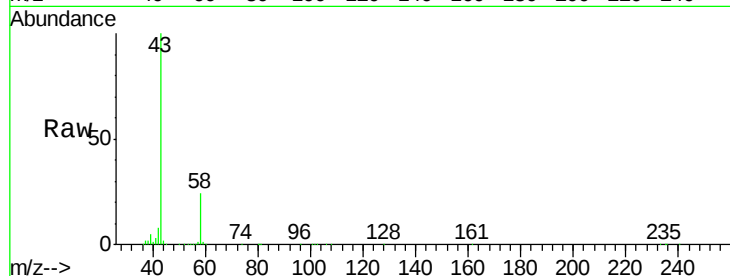
43 100

58 25.7 21.4 32.0

Manual Integrations
APPROVED

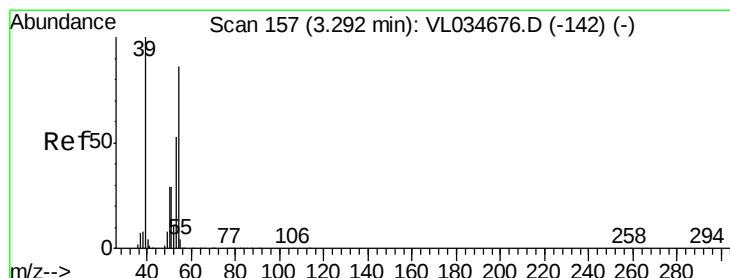
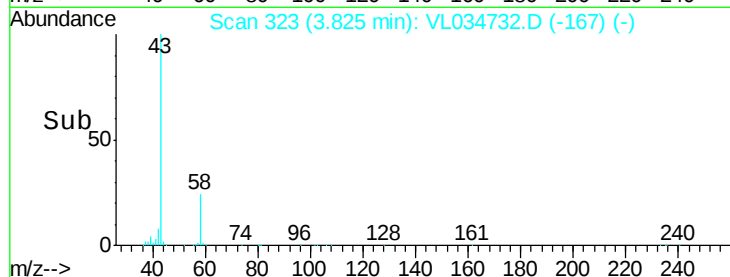
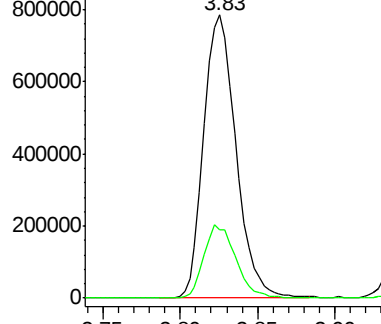
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.714 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034732.D

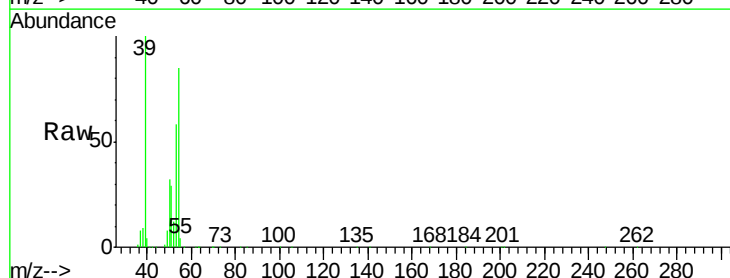
Acq: 28 Feb 2020 9:16

Tgt Ion: 39 Resp: 591009

Ion Ratio Lower Upper

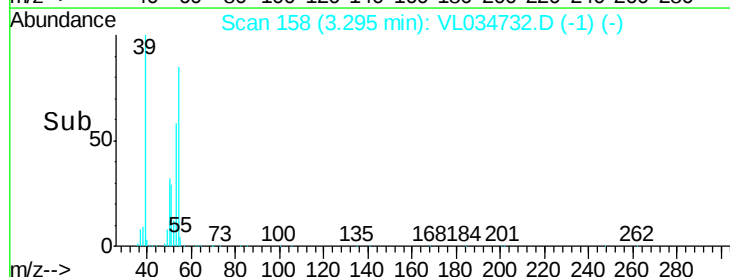
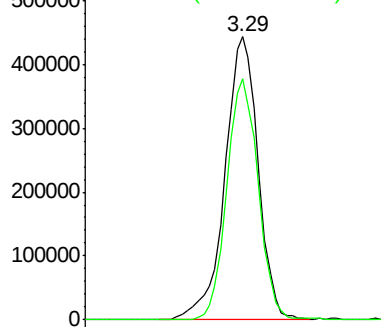
39 100

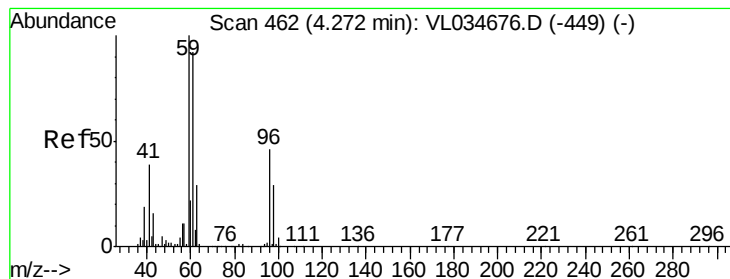
54 81.1 67.0 100.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

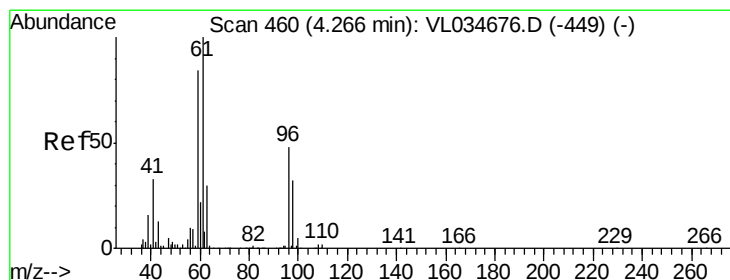
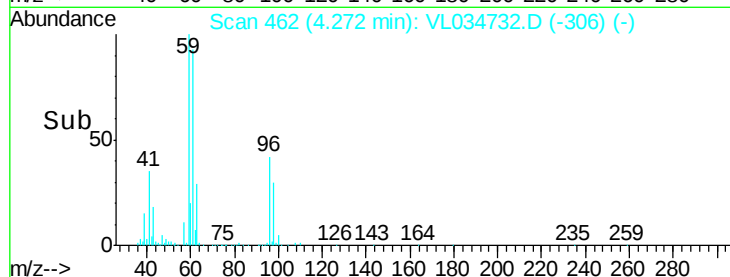
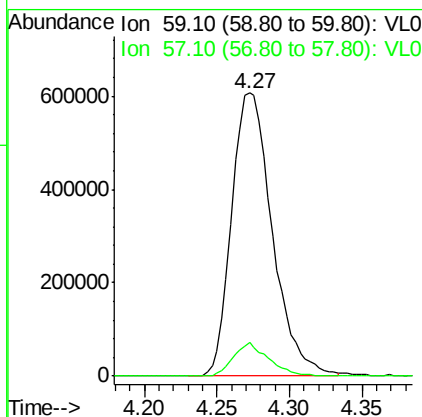
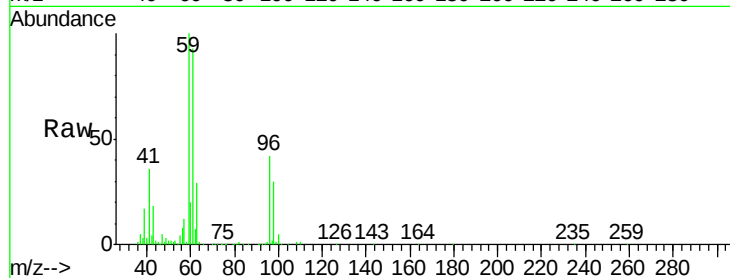
tert-Butyl alcohol
Concen: 12.965 ppbv
RT: 4.27 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1183925
Ion Ratio Lower Upper
59 100
57 10.5 8.8 13.2

Manual Integrations
APPROVED

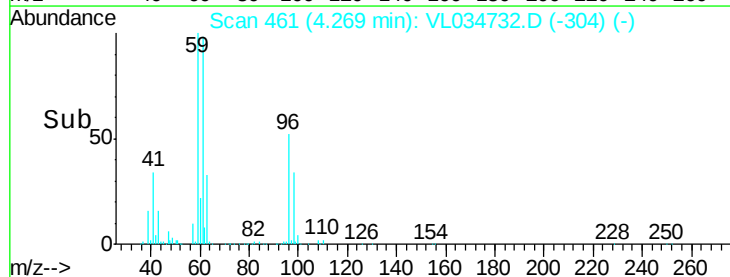
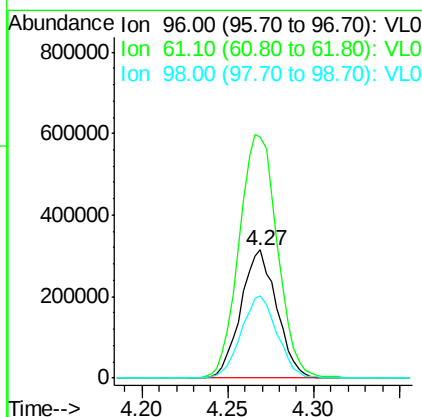
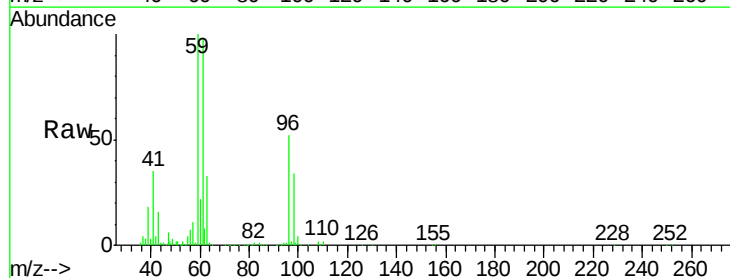
MMDadoda
3/2/2020 1:01:07 PM

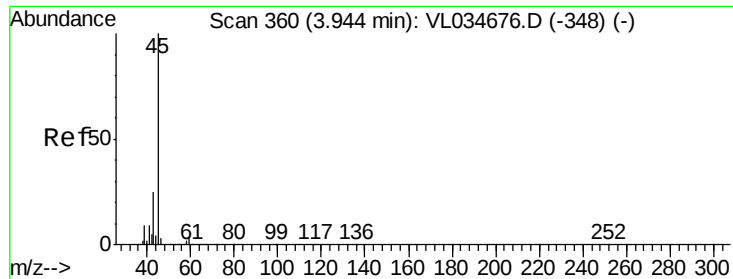


#18

1,1-Dichloroethene
Concen: 9.962 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion: 96 Resp: 455534
Ion Ratio Lower Upper
96 100
61 188.6 165.1 247.7
98 64.6 52.7 79.1





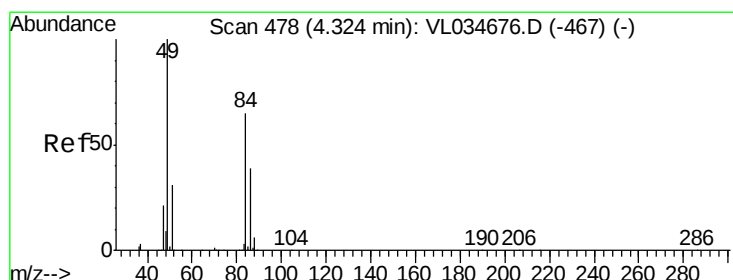
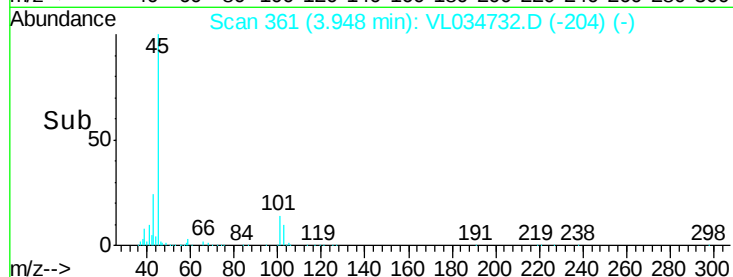
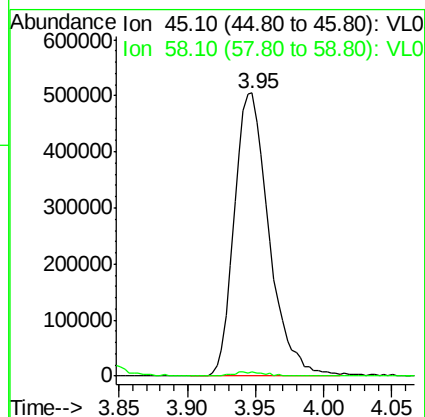
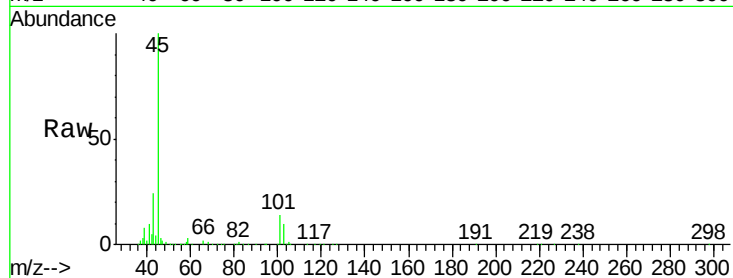
#19
Isopropyl Alcohol
Concen: 12.586 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.6	1.8	2.6#

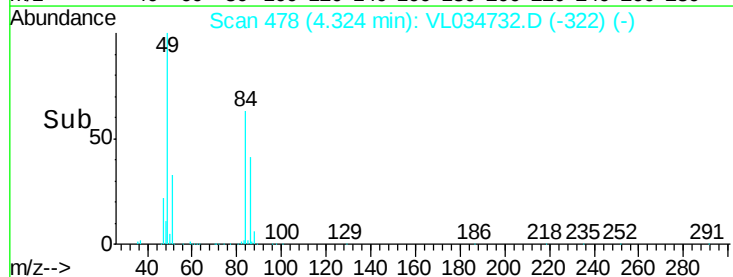
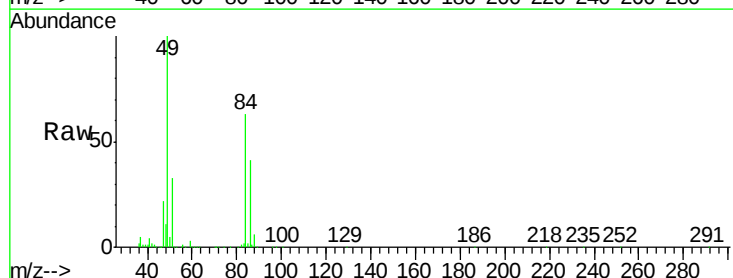
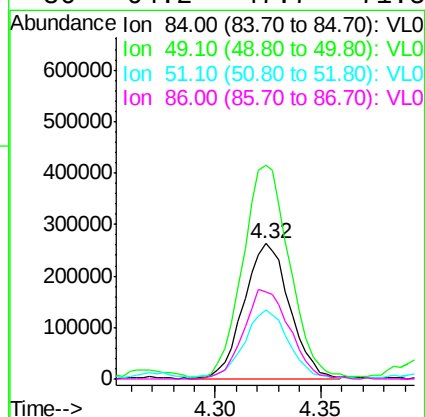
Manual Integrations
APPROVED

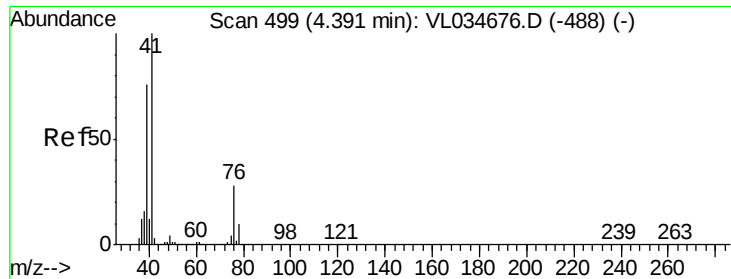
MMDadoda
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#20
Methylene Chloride
Concen: 9.005 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
84	100		
49	156.3	122.8	184.2
51	50.8	38.6	58.0
86	64.2	47.7	71.5





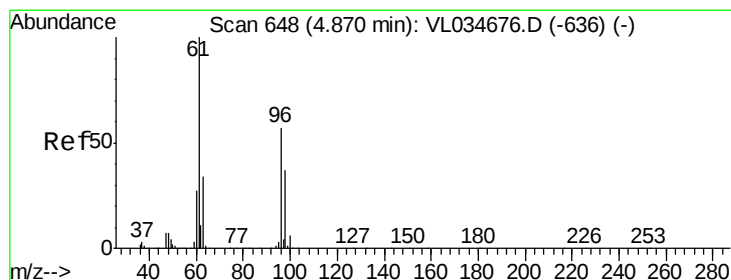
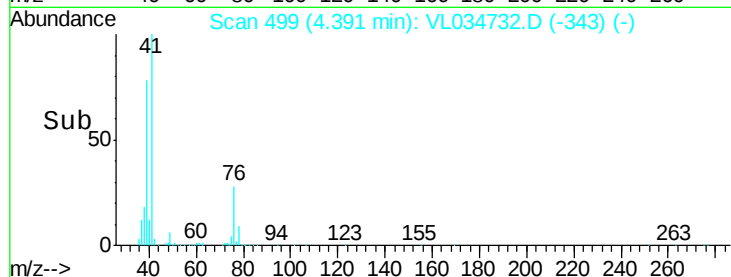
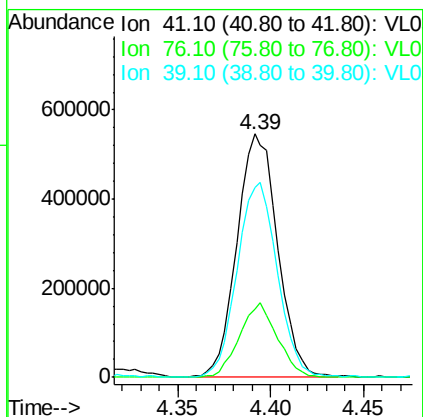
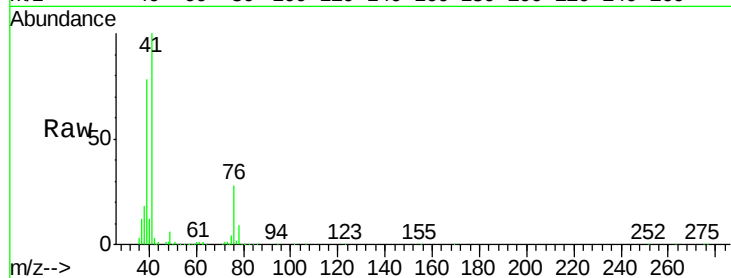
#21
Allvl Chloride
Concen: 10.460 ppbv
RT: 4.39 min Scan# 499
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:	41	Resp:	824697
Ion Ratio		Lower	Upper
41	100		
76	29.0	22.8	34.2
39	79.4	61.7	92.5

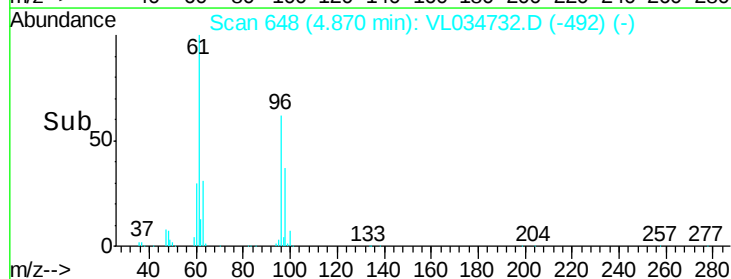
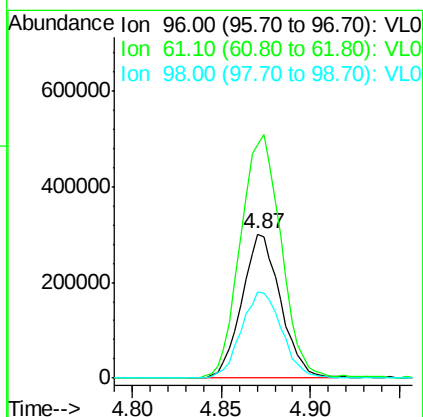
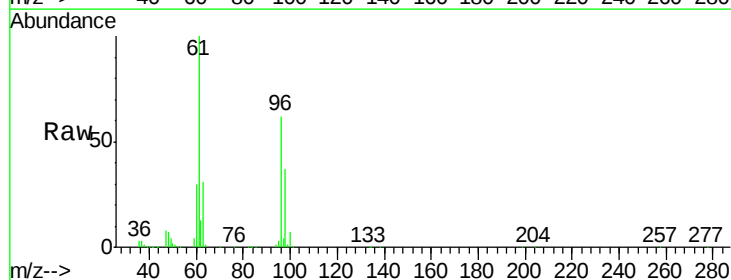
Manual Integrations
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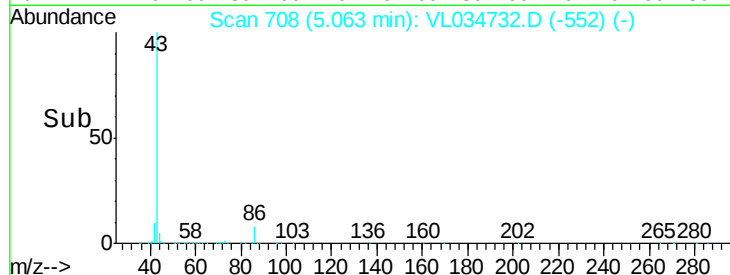
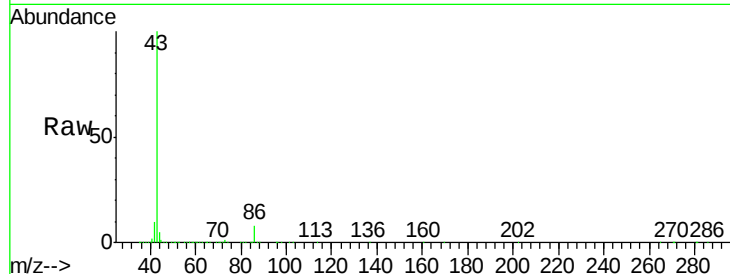
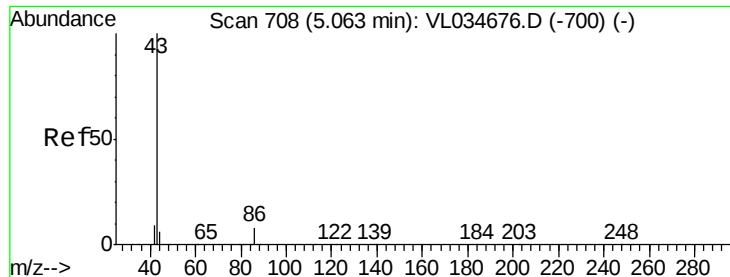
MMDadoda
3/2/2020 1:01:07 PM



#22
trans-1,2-Dichloroethene
Concen: 10.216 ppbv
RT: 4.87 min Scan# 648
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion:	96	Resp:	455462
Ion Ratio		Lower	Upper
96	100		
61	162.0	139.4	209.0
98	59.5	51.3	76.9





#23

Vinyl Acetate

Concen: 11.695 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Tot Ion:	43	Resp:	1894666
Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.0	9.0
42	10.0	8.0	12.0
44	5.3	4.5	6.7

Instrument :

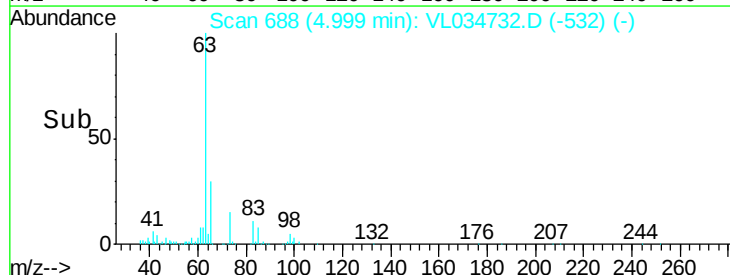
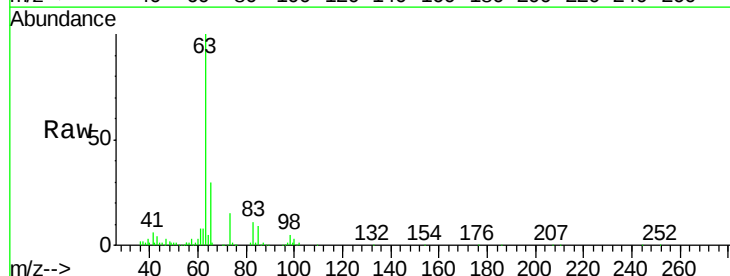
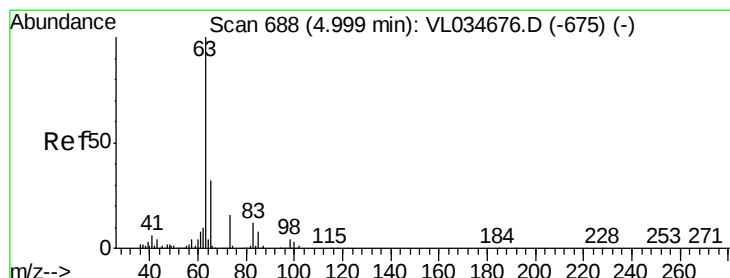
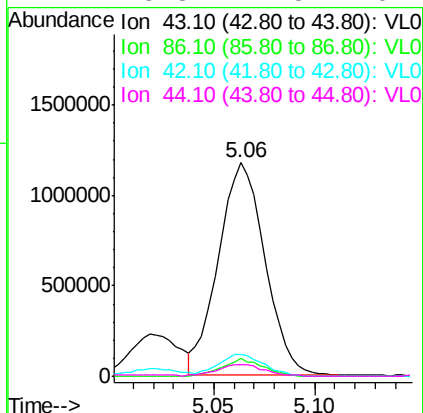
MSVOA_L

ClientSampleId :

VSTDCCC010

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 10.055 ppbv

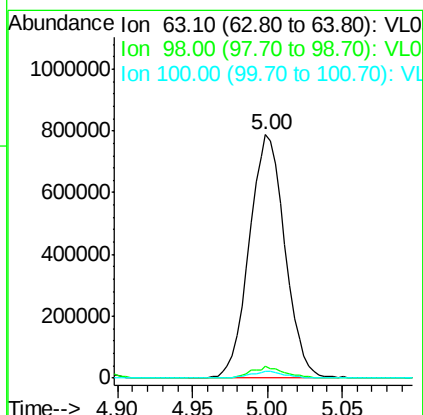
RT: 5.00 min Scan# 688

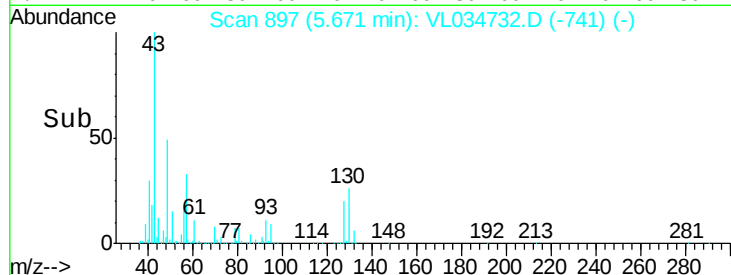
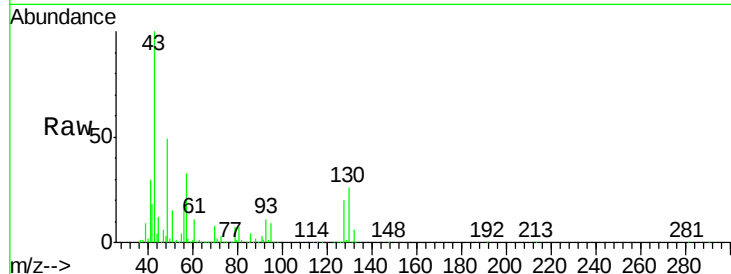
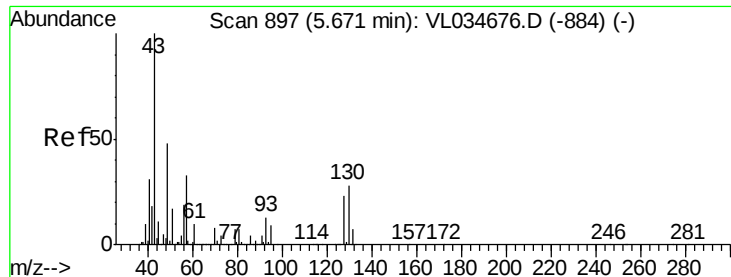
Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

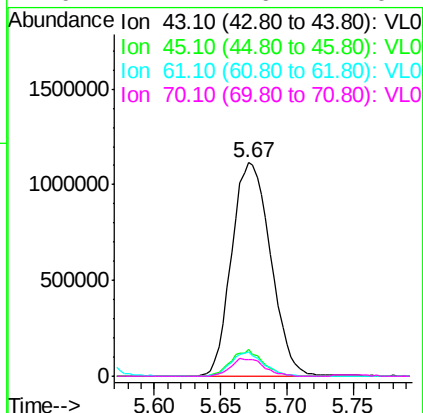
Tgt Ion:	63	Resp:	1300876
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.1	6.2
100	2.7	1.4	4.0





#25
Ethyl Acetate
Concen: 10.796 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

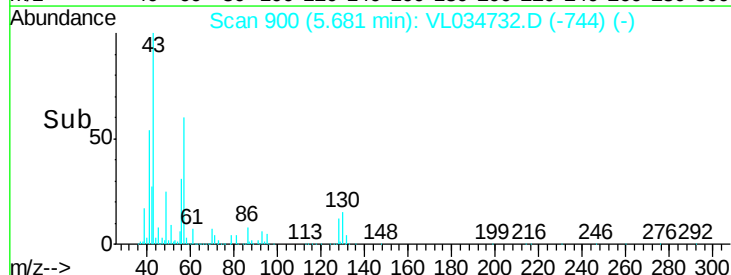
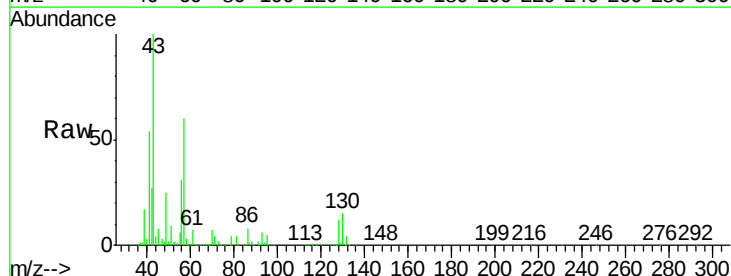
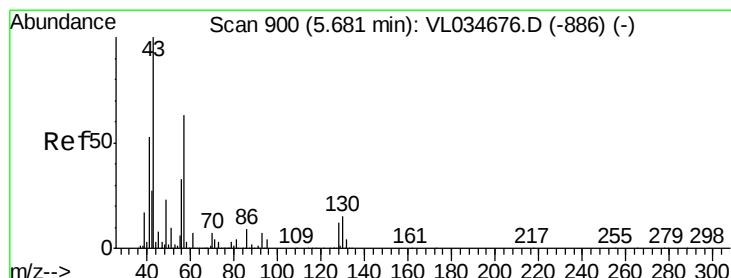
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.2	8.2	12.4	
61	9.7	7.8	11.6	
70	7.2	6.1	9.1	



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

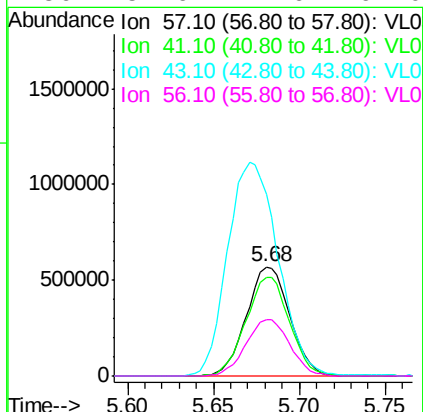
Manual Integrations
APPROVED

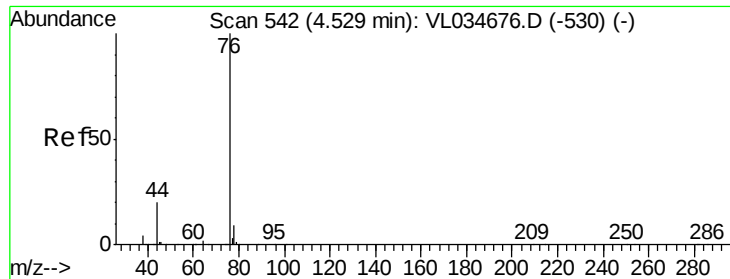
MMDadoda
3/2/2020 1:01:07 PM



#26
Hexane
Concen: 10.222 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	91.2	70.3	105.5	
43	230.1	177.0	265.4	
56	52.6	42.6	64.0	





#27

Carbon Disulfide

Concen: 10.808 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1192756

Ion Ratio Lower Upper

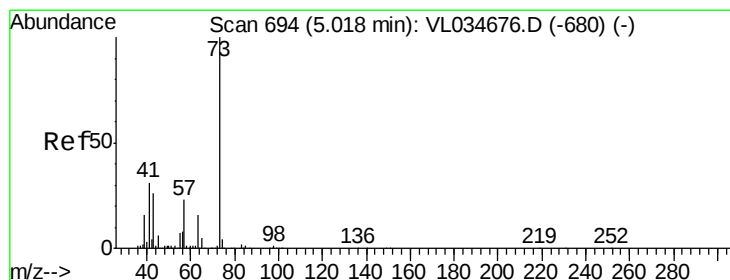
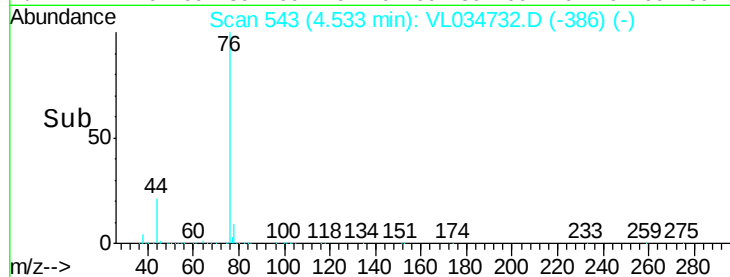
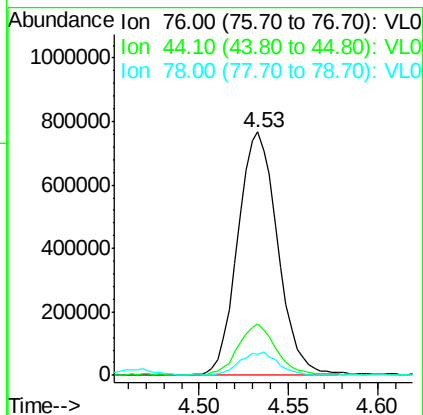
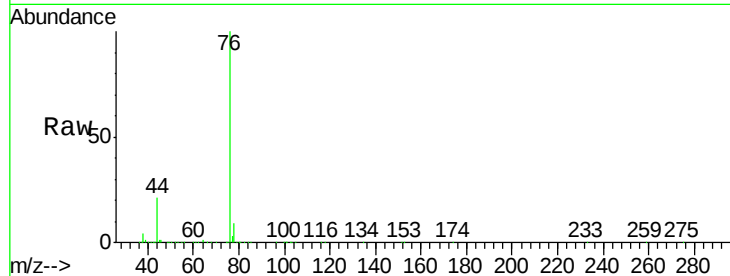
76 100

44 20.0 15.3 22.9

78 9.3 7.6 11.4

Manual Integrations
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3/2/2020 1:01:07 PM



#28

Methyl tert-Butyl Ether

Concen: 11.333 ppbv

RT: 5.02 min Scan# 695

Delta R.T. 0.00 min

Lab File: VL034732.D

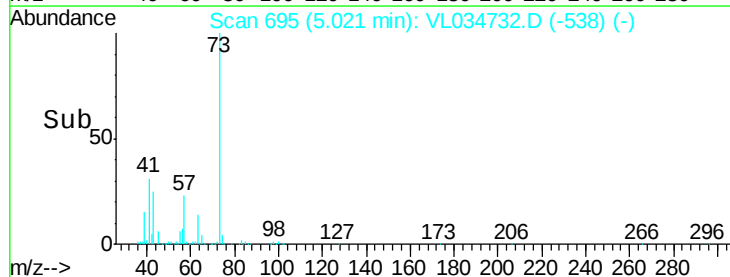
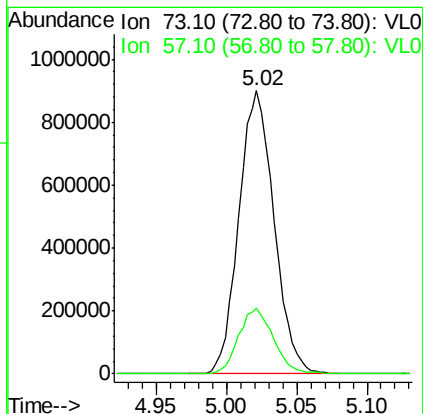
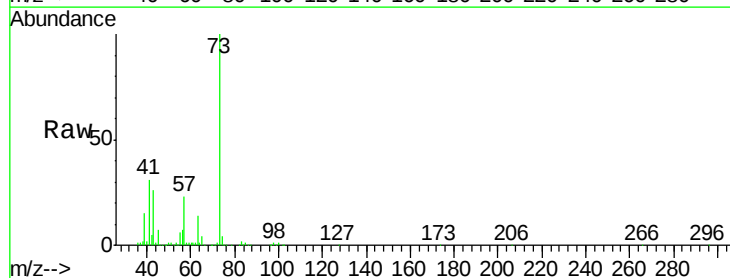
Acq: 28 Feb 2020 9:16

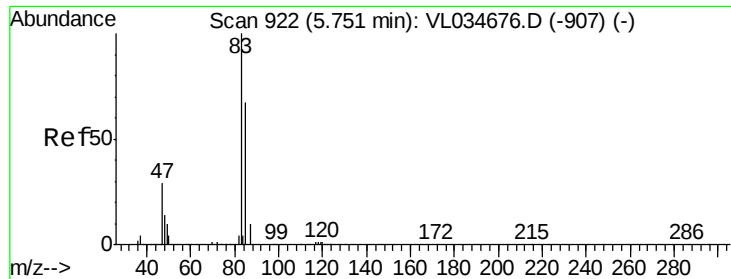
Tgt Ion: 73 Resp: 1574113

Ion Ratio Lower Upper

73 100

57 23.1 18.6 28.0





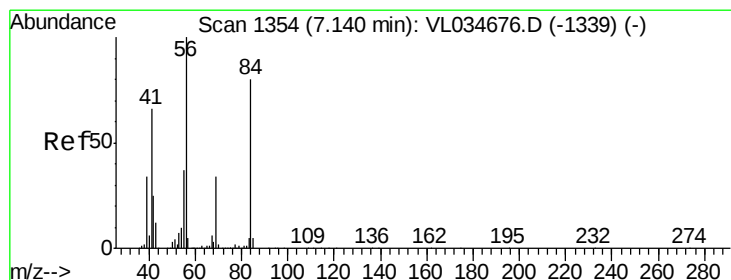
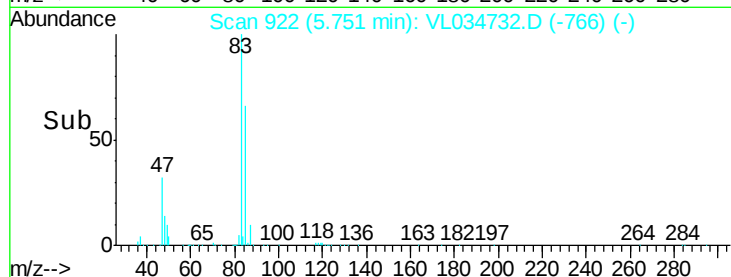
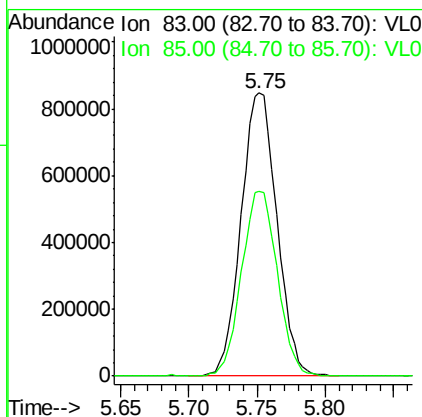
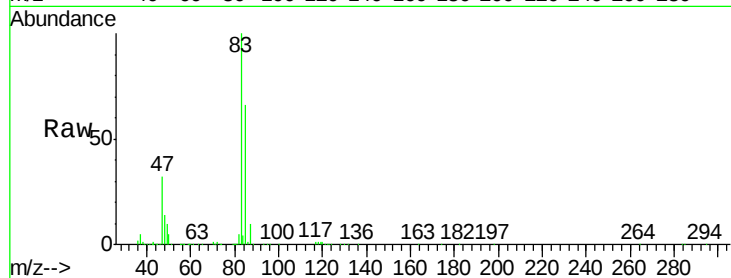
#29
Chloroform
Concen: 9.988 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1547180
Ion Ratio Lower Upper
83 100
85 65.4 53.9 80.9

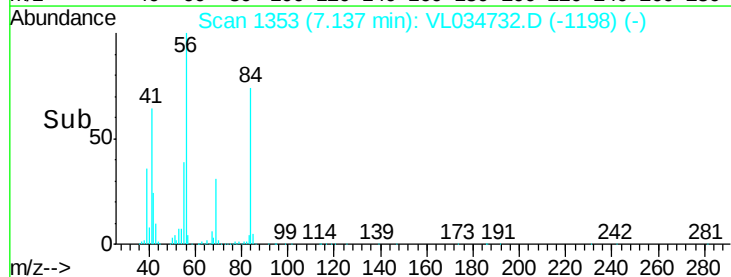
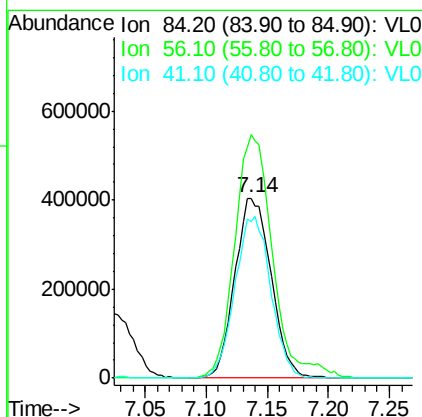
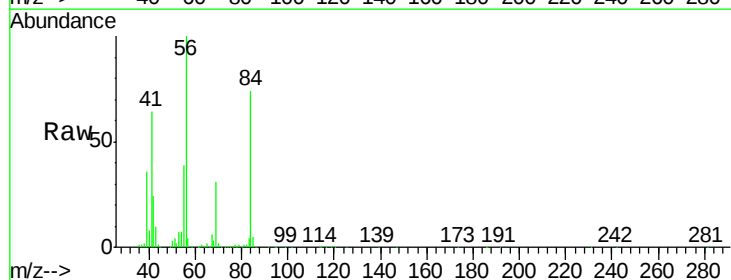
Manual Integrations
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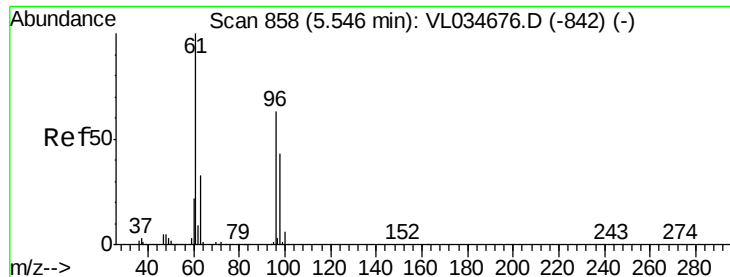
MMDadoda
3/2/2020 1:01:07 PM



#30
Cyclohexane
Concen: 11.057 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion: 84 Resp: 833131
Ion Ratio Lower Upper
84 100
56 141.2 113.4 170.2
41 88.6 68.2 102.4





#31

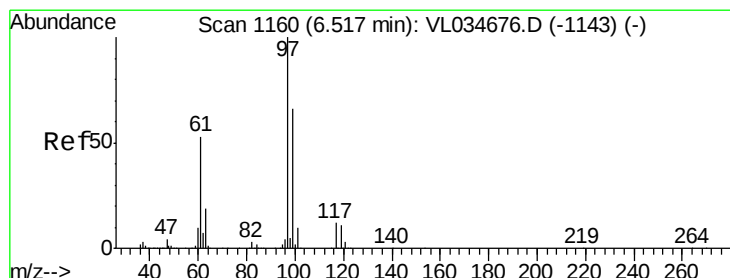
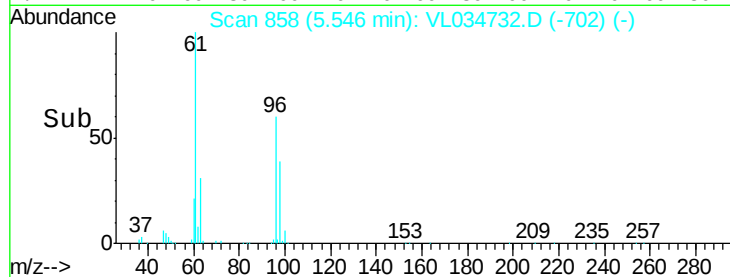
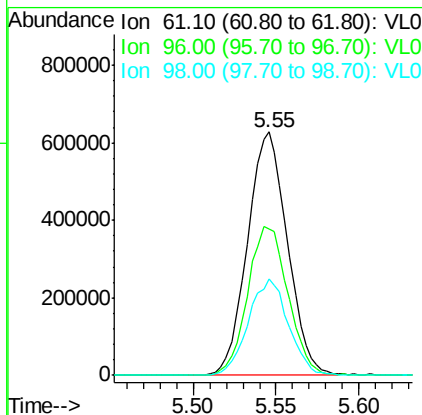
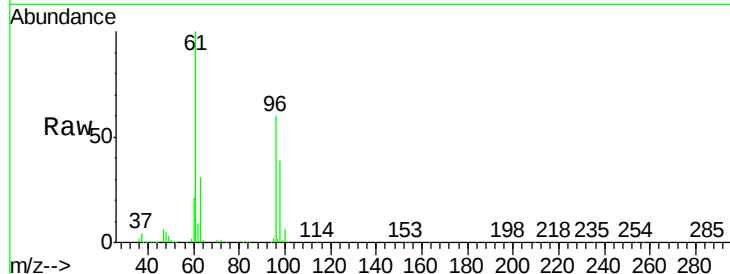
cis-1,2-Dichloroethene
Concen: 10.971 ppbv
RT: 5.55 min Scan# 858
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.8	50.2	75.2
98	39.4	34.3	51.5

Manual Integrations
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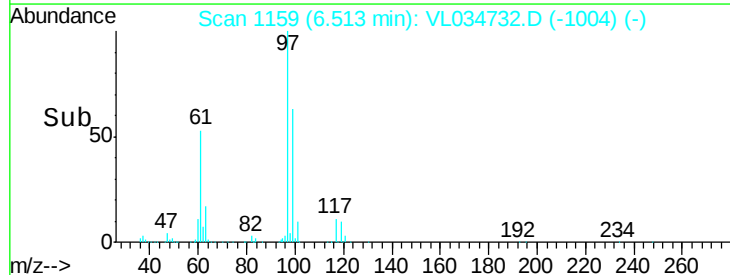
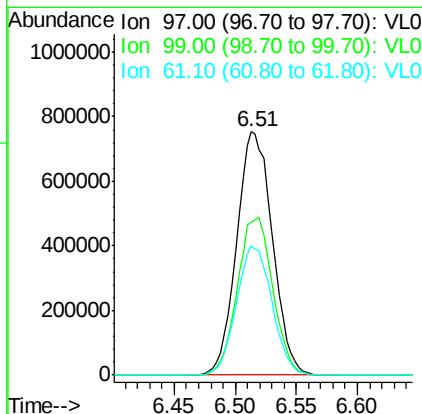
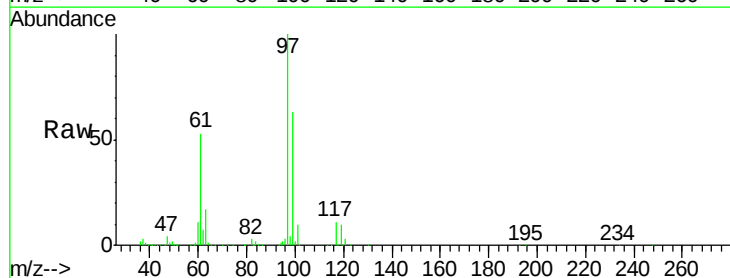
MMDadoda
3/2/2020 1:01:07 PM

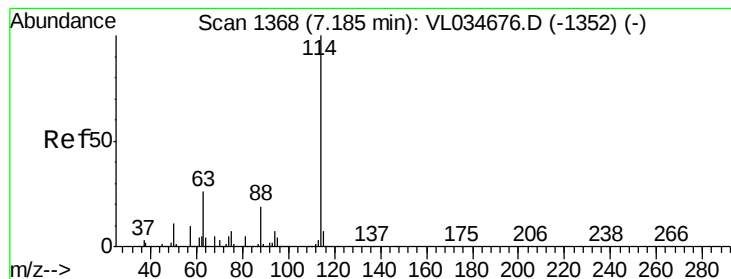


#32

1,1,1-Trichloroethane
Concen: 10.532 ppbv
RT: 6.51 min Scan# 1159
Delta R.T. -0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	52.3	78.5
61	52.8	42.8	64.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 2217916

Ion Ratio Lower Upper

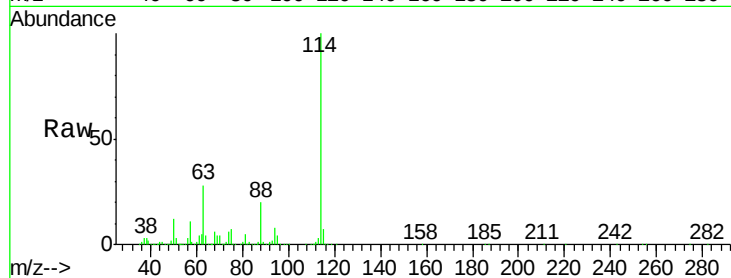
114 100

63 29.0 22.9 34.3

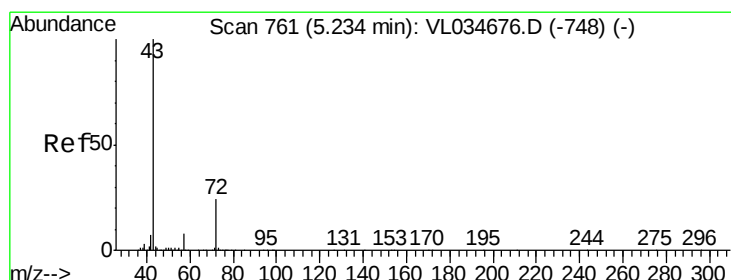
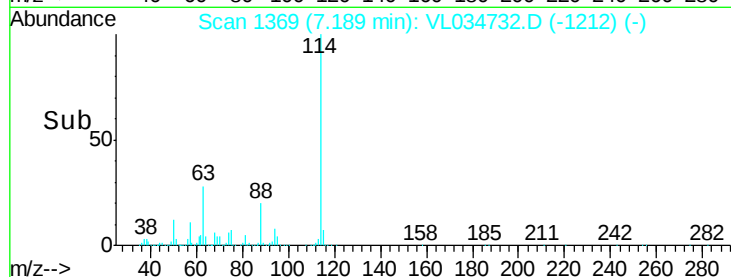
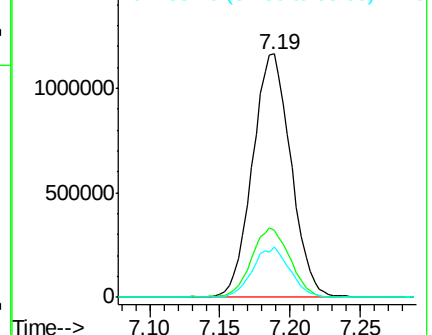
88 20.0 15.8 23.6

Manual Integrations
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Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.847 ppbv

RT: 5.24 min Scan# 762

Delta R.T. 0.00 min

Lab File: VL034732.D

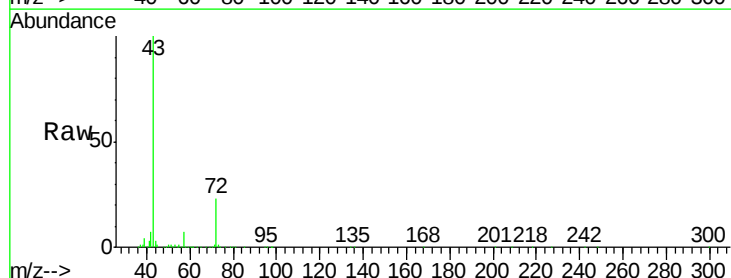
Acq: 28 Feb 2020 9:16

Tgt Ion: 43 Resp: 1514323

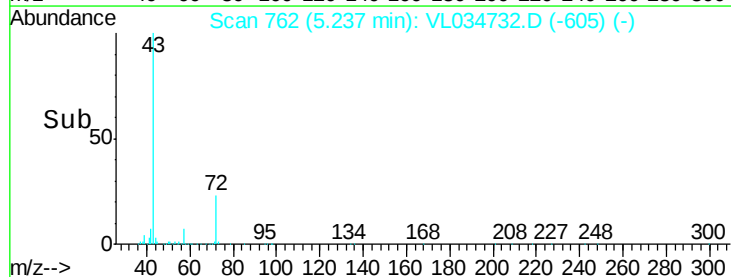
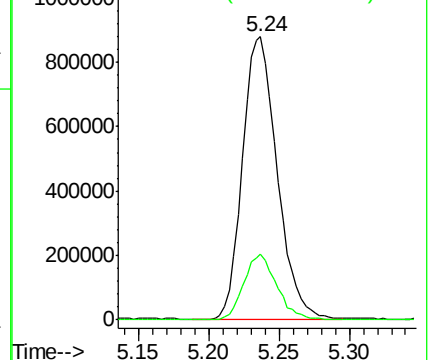
Ion Ratio Lower Upper

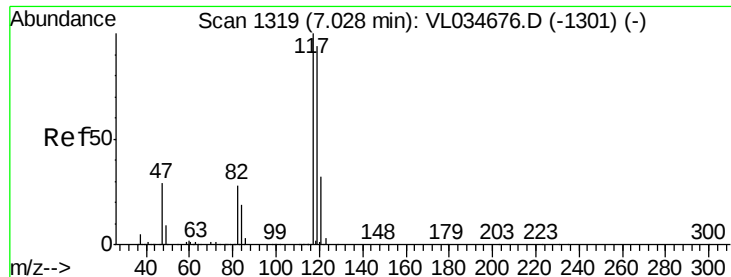
43 100

72 22.4 18.2 27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





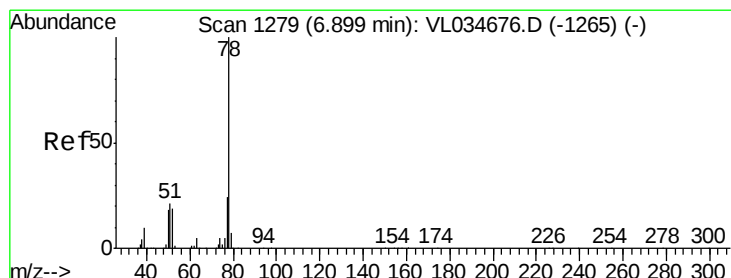
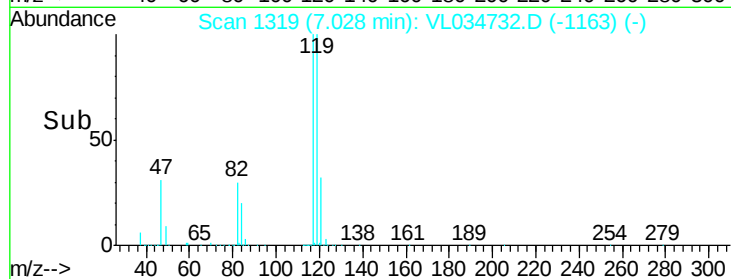
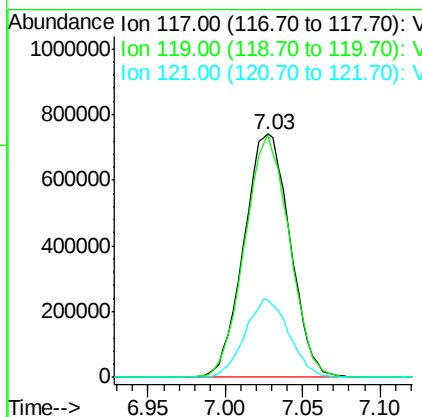
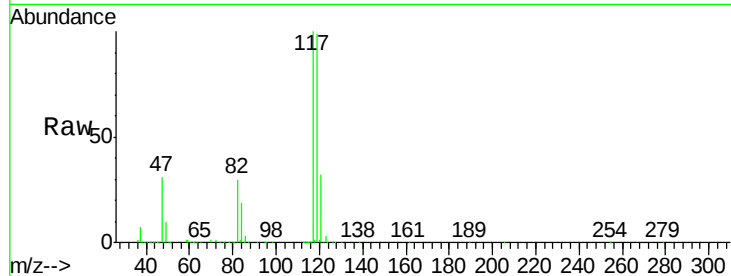
#35
Carbon Tetrachloride
Concen: 10.328 ppbv
RT: 7.03 min Scan# 1319
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	99.3	75.5	113.3
121	31.8	25.4	38.0

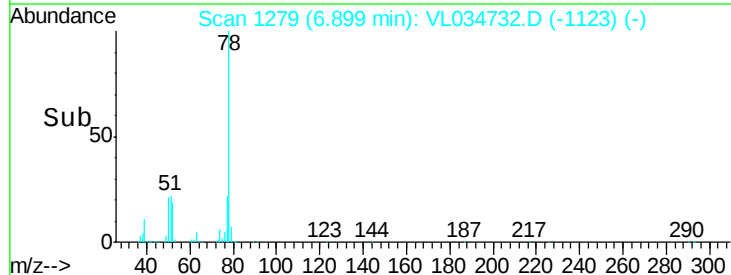
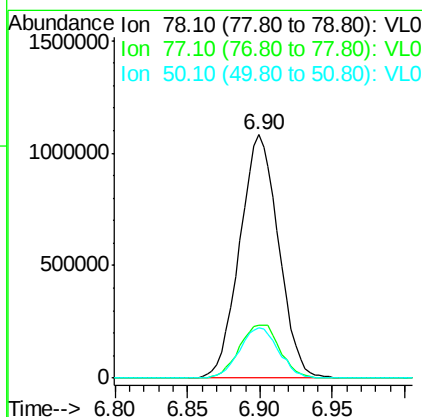
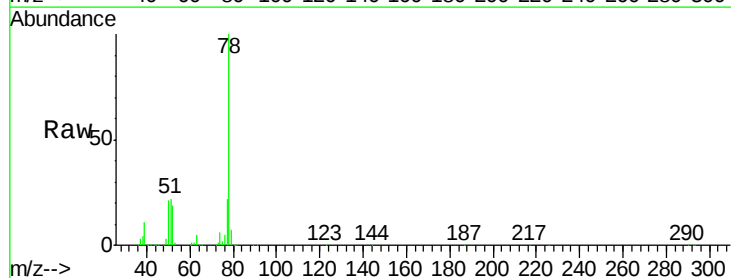
Manual Integrations
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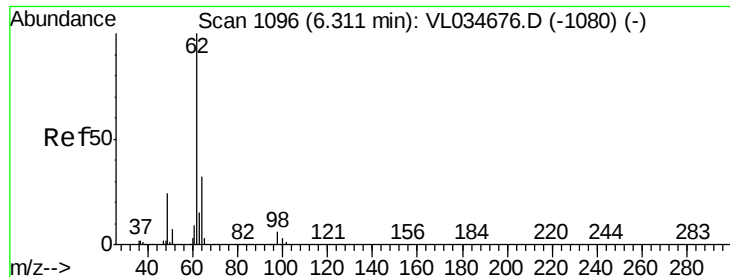
MMDadoda
3/2/2020 1:01:07 PM



#36
Benzene
Concen: 10.506 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.6	19.5	29.3
50	20.6	14.6	21.8





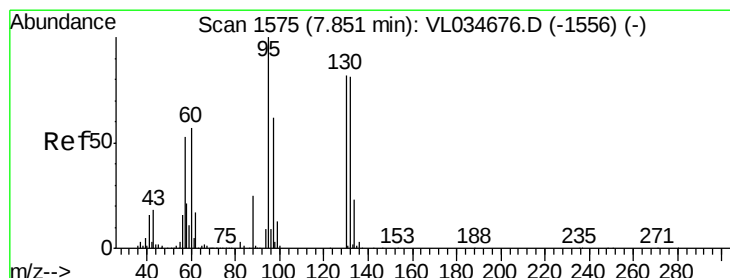
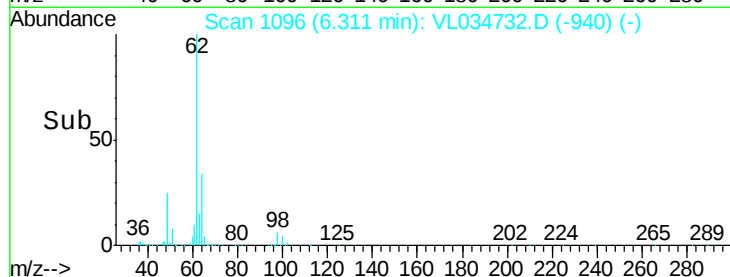
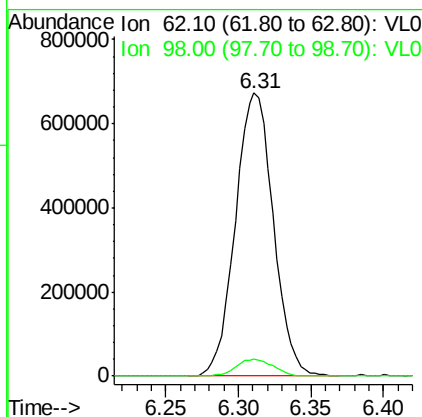
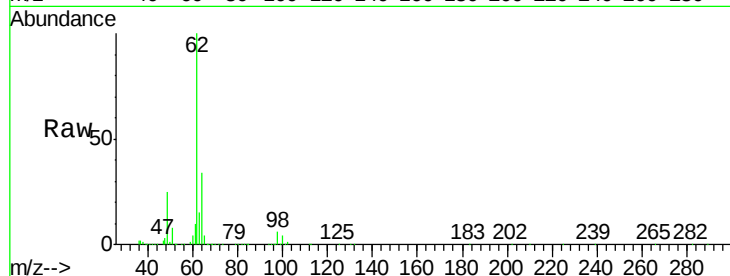
#37
 1,2-Dichloroethane
 Concen: 10.143 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.9	4.7	7.1

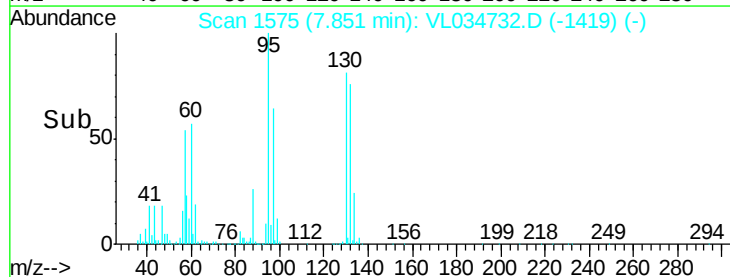
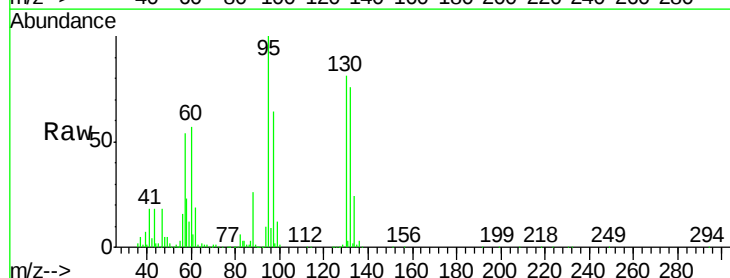
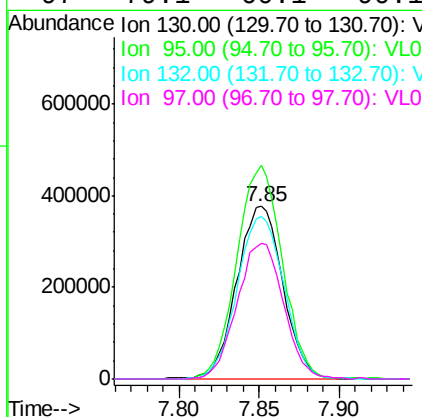
Manual Integrations
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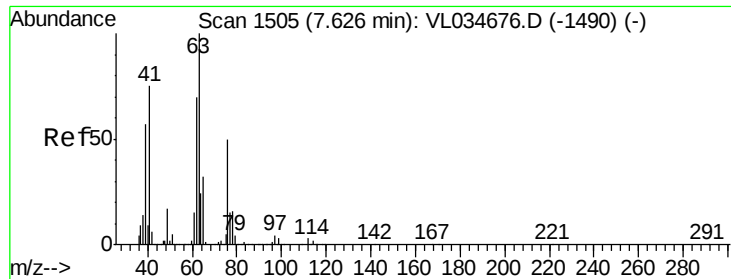
MMDadoda
 3/2/2020 1:01:07 PM



#38
 Trichloroethene
 Concen: 9.901 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	124.1	97.1	145.7
132	94.1	78.3	117.5
97	79.1	60.1	90.1





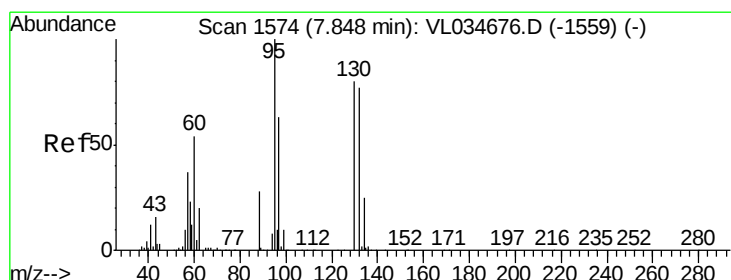
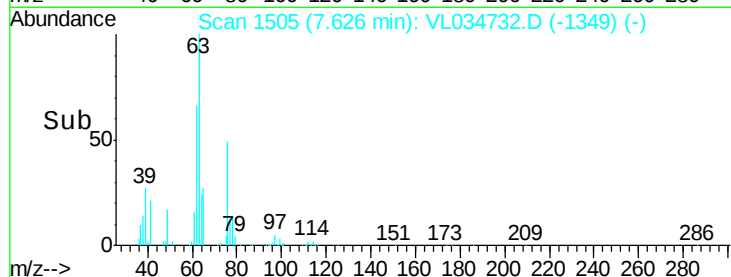
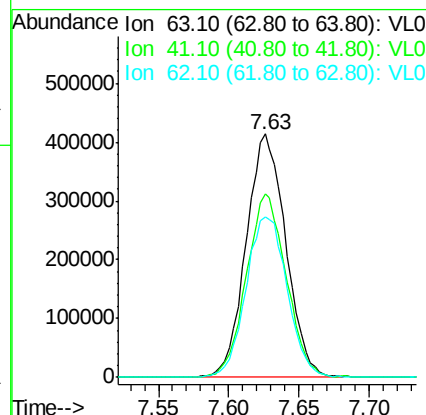
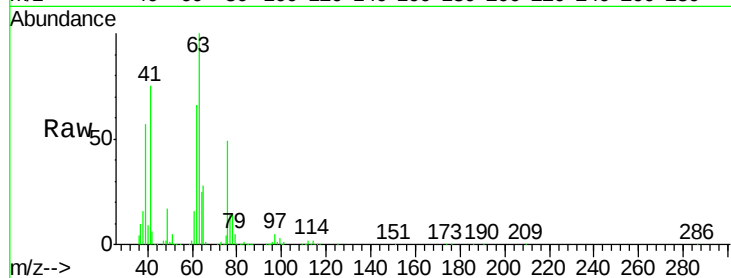
#39
 1,2-Dichloropropane
 Concen: 10.659 ppbv
 RT: 7.63 min Scan# 1505
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.5	60.2	90.4
62	65.9	56.3	84.5

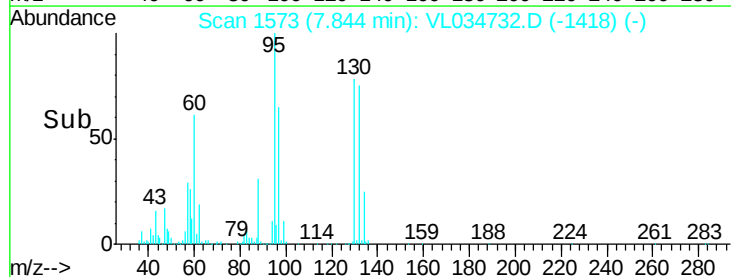
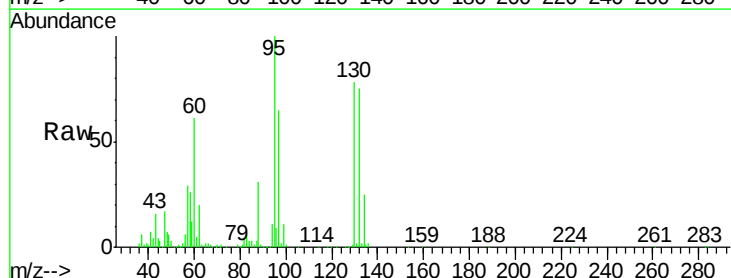
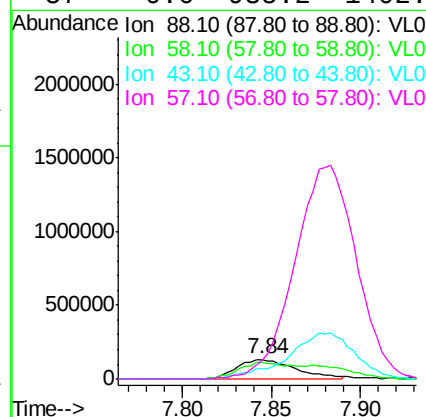
Manual Integrations
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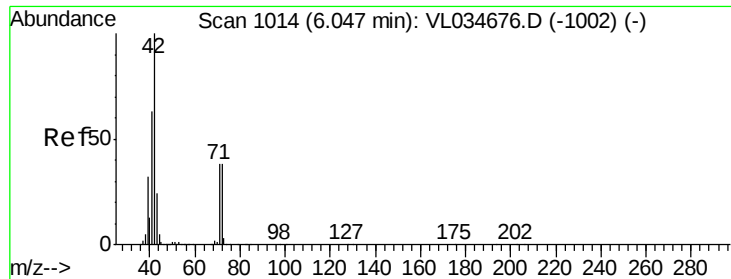
MMDadoda
 3/2/2020 1:01:07 PM



#40
 1,4-Dioxane
 Concen: 11.472 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.5	104.6	156.8
43	0.0	212.9	319.3#
57	0.0	935.2	1402.8#





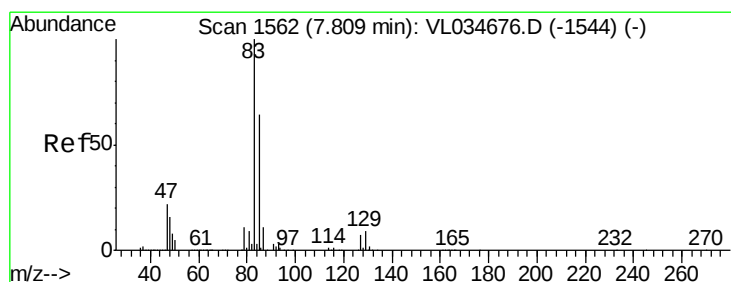
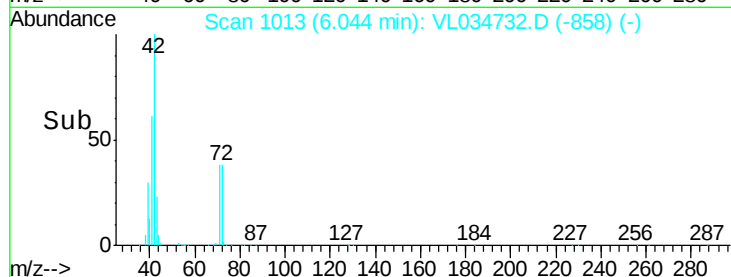
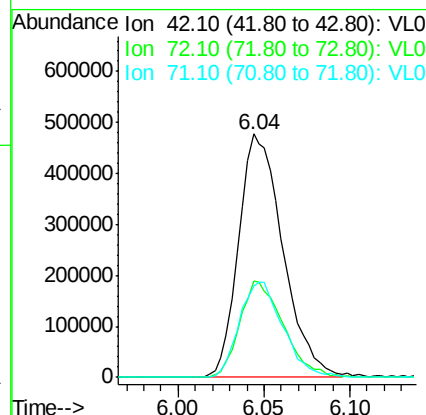
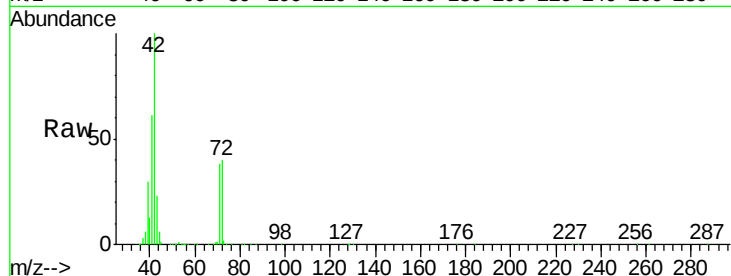
#41
Tetrahydrofuran
Concen: 11.615 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.3	31.7	47.5
71	38.9	30.7	46.1

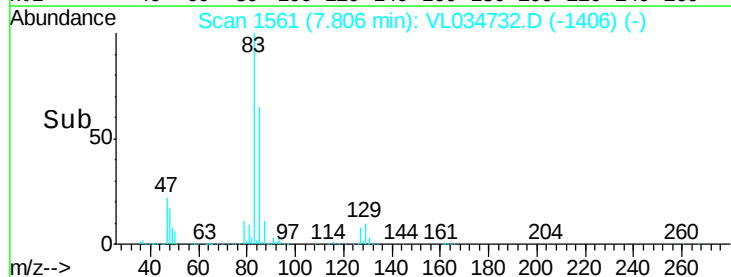
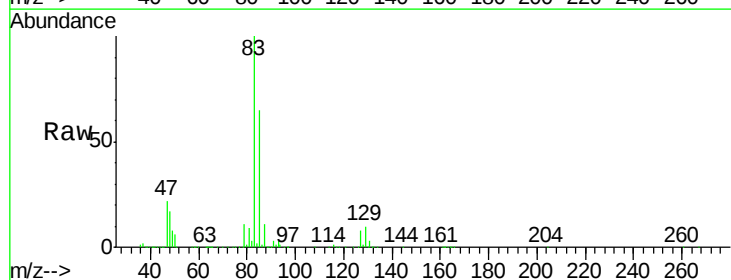
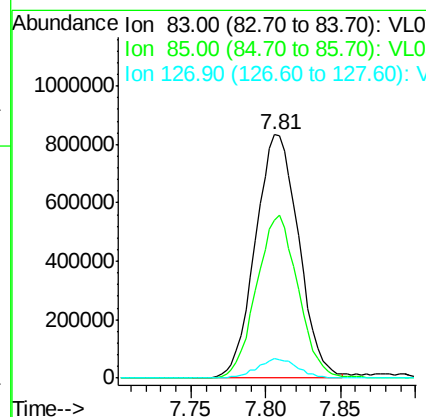
Manual Integrations
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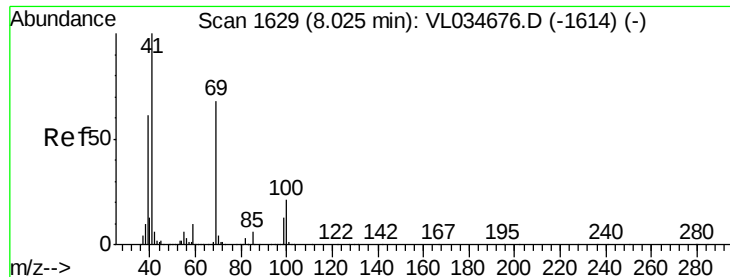
MMDadoda
3/2/2020 1:01:07 PM



#42
Bromodichloromethane
Concen: 10.614 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. -0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.1	76.7
127	8.3	5.8	8.8





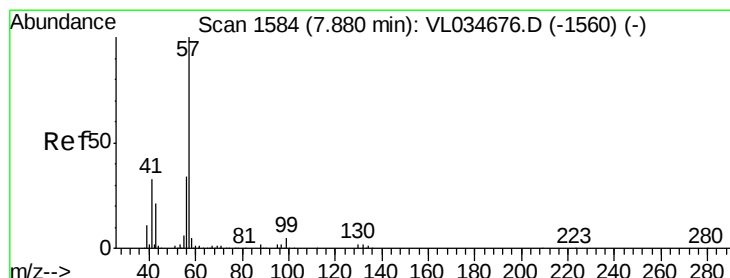
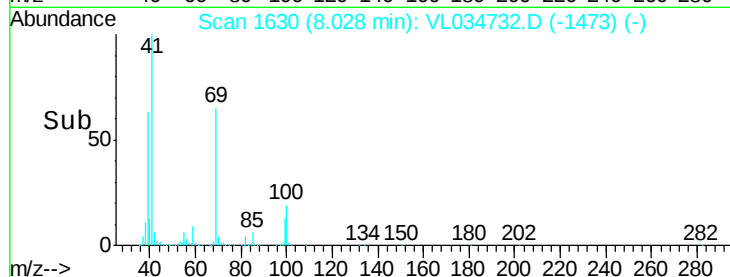
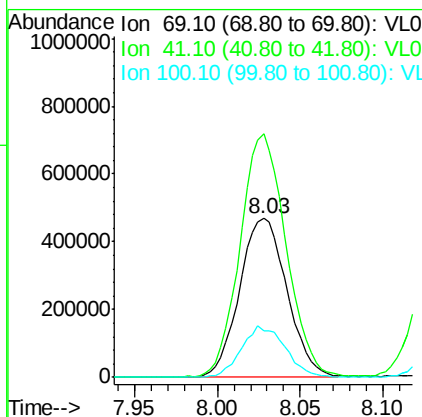
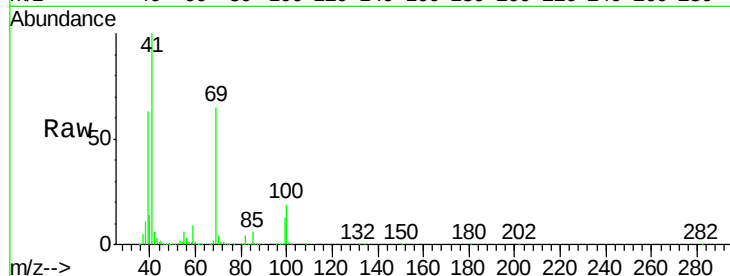
#43
Methvl Methacrilate
Concen: 11.596 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.3	118.2	177.2
100	30.2	24.2	36.2

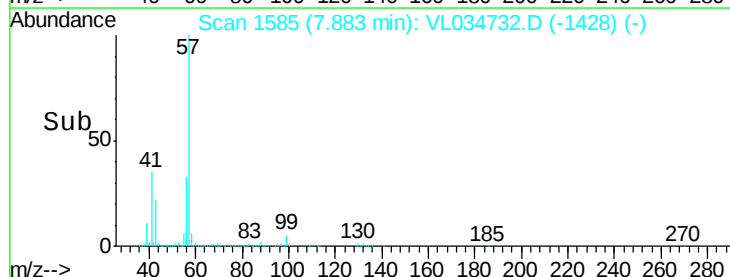
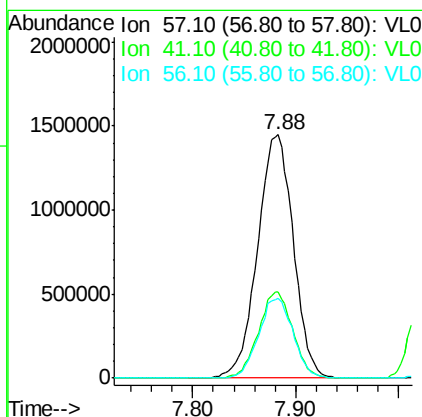
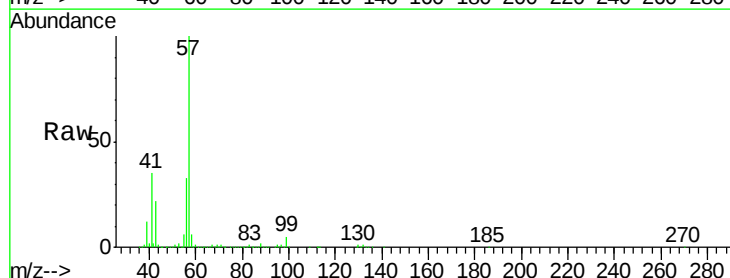
Manual Integrations
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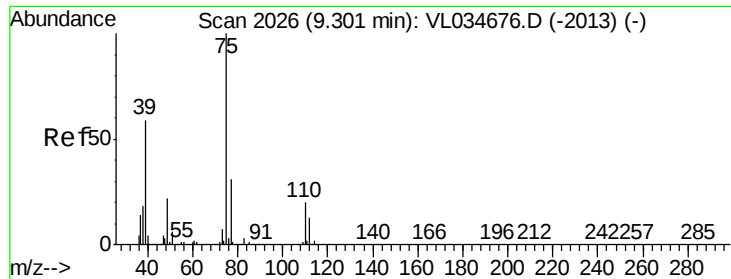
MMDadoda
3/2/2020 1:01:07 PM



#44
2,2,4-Trimethylpentane
Concen: 10.366 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.0	26.0	39.0
56	31.7	25.6	38.4





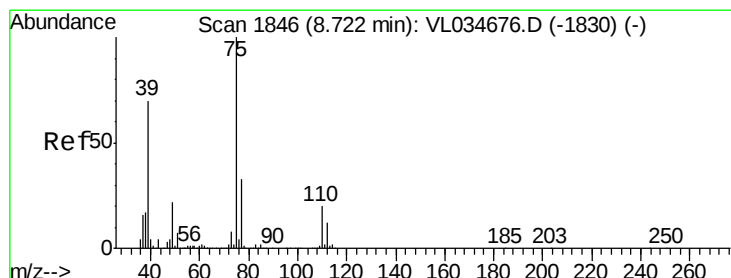
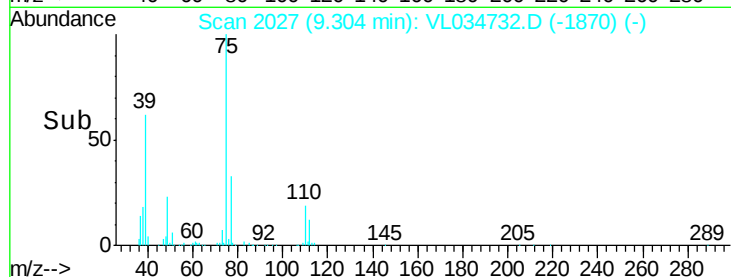
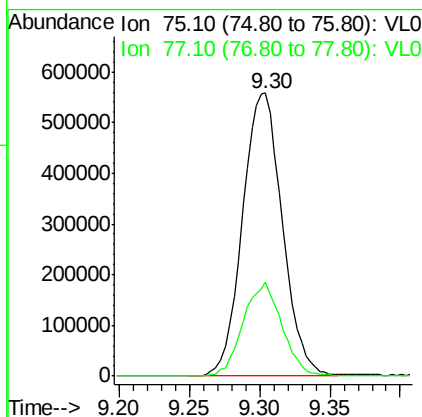
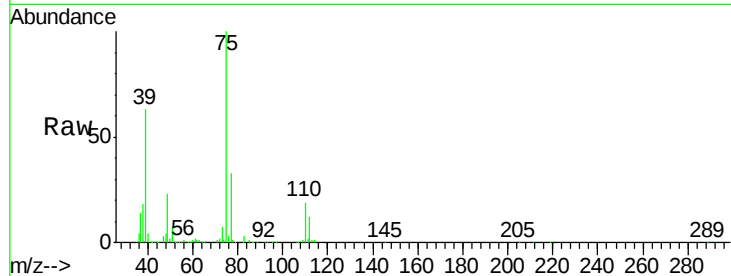
#45
t-1,3-Dichloropropene
Concen: 12.550 ppbv
RT: 9.30 min Scan# 2027
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1103462
Ion Ratio Lower Upper
75 100
77 33.1 25.3 37.9

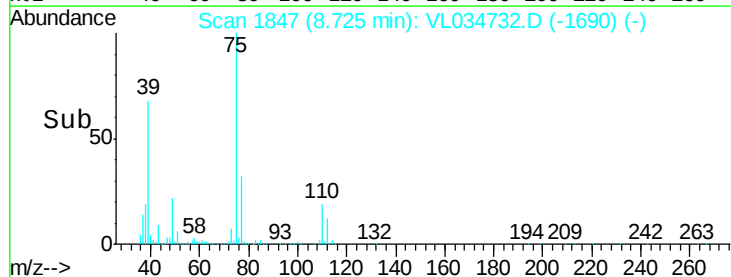
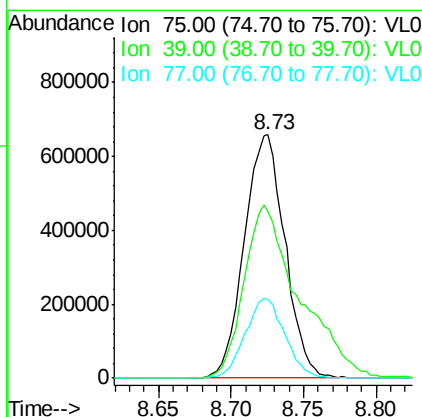
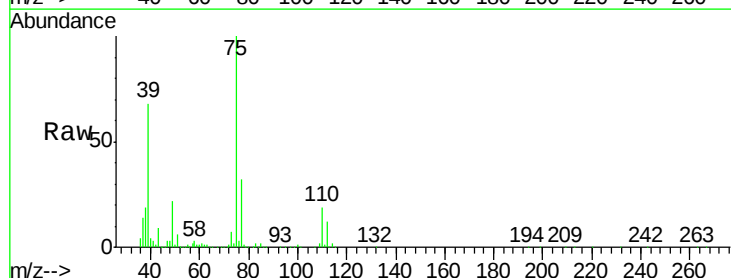
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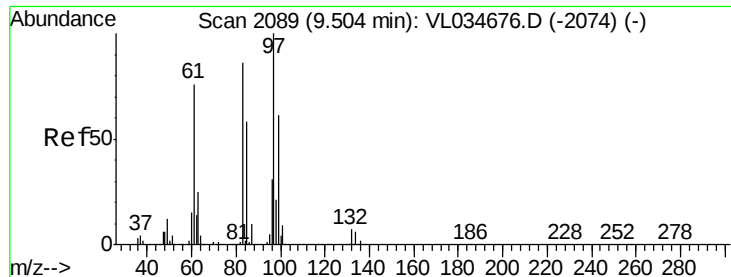
MMDadoda
3/2/2020 1:01:07 PM



#46
cis-1,3-Dichloropropene
Concen: 12.179 ppbv
RT: 8.73 min Scan# 1847
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion: 75 Resp: 1284249
Ion Ratio Lower Upper
75 100
39 68.2 55.7 83.5
77 32.1 26.3 39.5





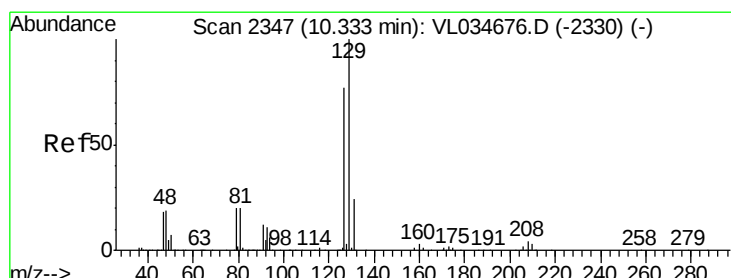
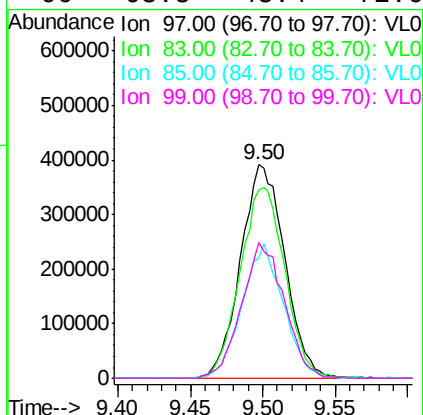
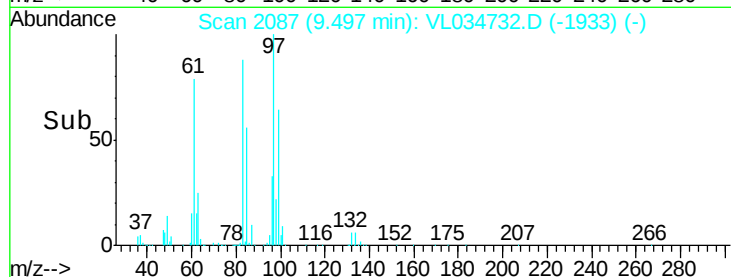
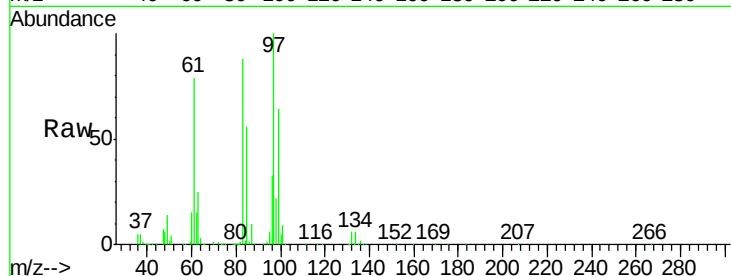
#47
 1,1,2-Trichloroethane
 Concen: 10.603 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.01 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	88.0	69.4	104.0	
85	56.0	46.4	69.6	
99	63.8	48.4	72.6	

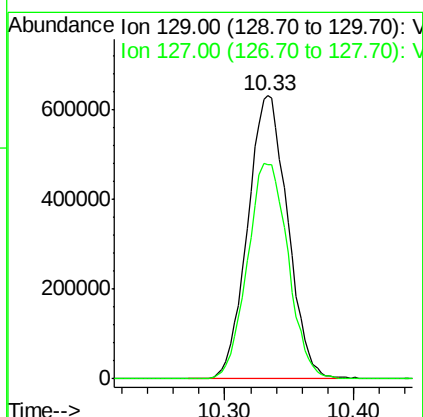
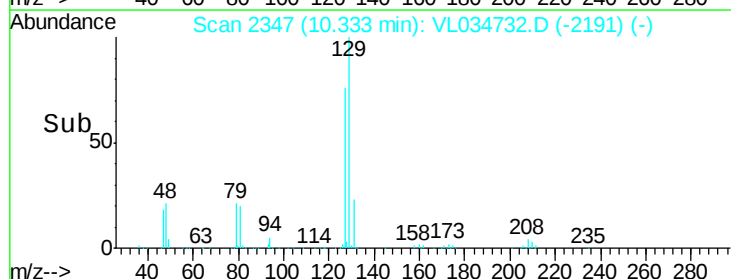
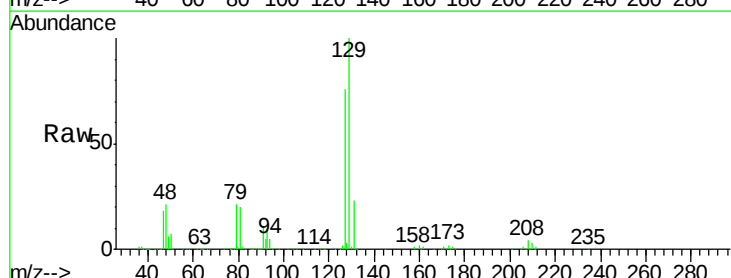
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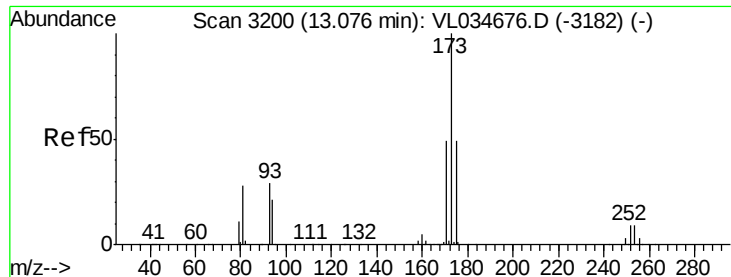
MMDadoda
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#48
 Dibromochloromethane
 Concen: 11.201 ppbv
 RT: 10.33 min Scan# 2347
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.5	39.3	117.8	





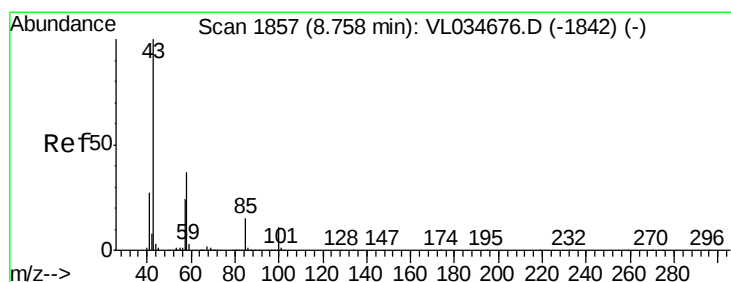
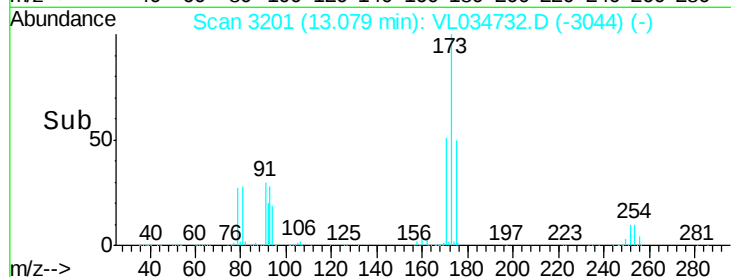
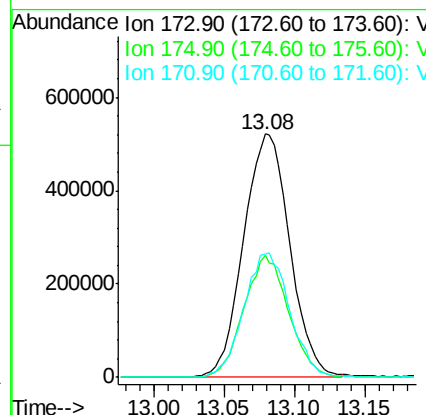
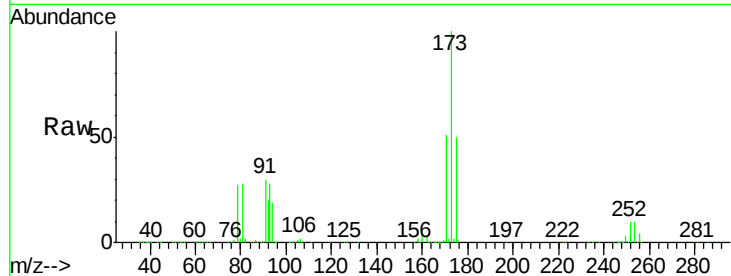
#49
Bromoform
Concen: 11.341 ppbv
RT: 13.08 min Scan# 3201
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.6	58.0
171	51.0	41.5	62.3

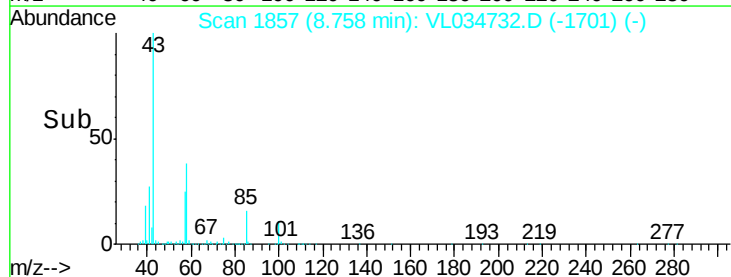
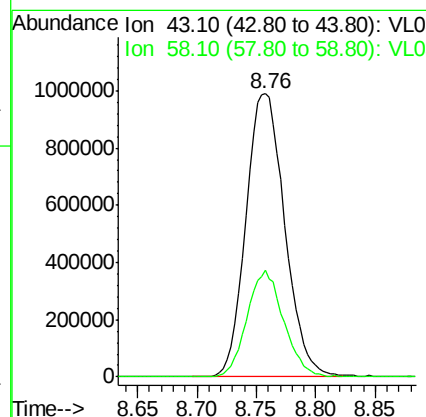
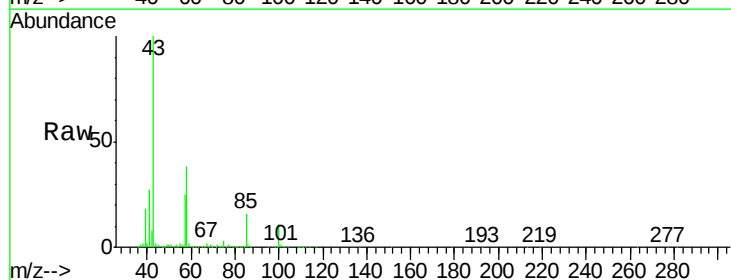
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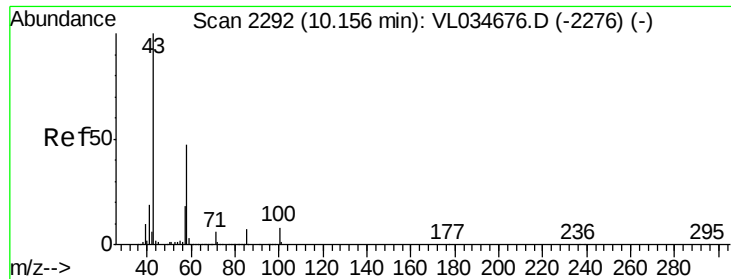
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#50
4-Methyl-2-Pentanone
Concen: 11.302 ppbv
RT: 8.76 min Scan# 1857
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.6	29.0	43.6





#51

2-Hexanone

Concen: 11.881 ppbv

RT: 10.16 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1848770

Ion Ratio Lower Upper

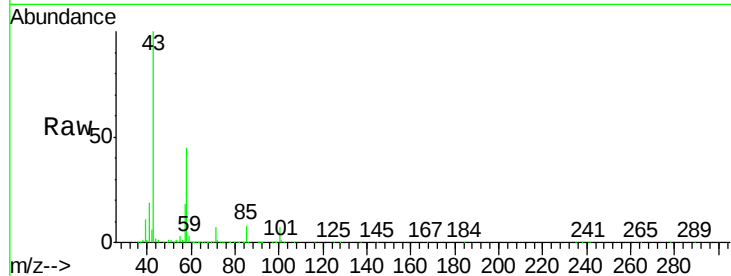
43 100

58 48.6 39.4 59.0

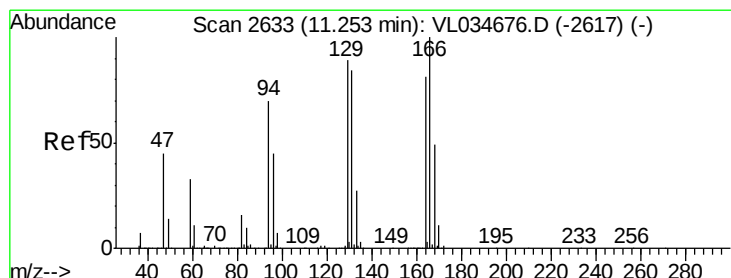
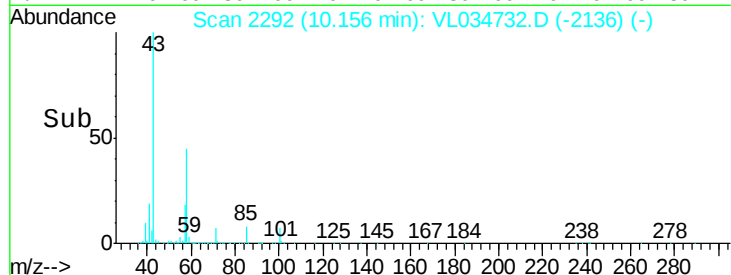
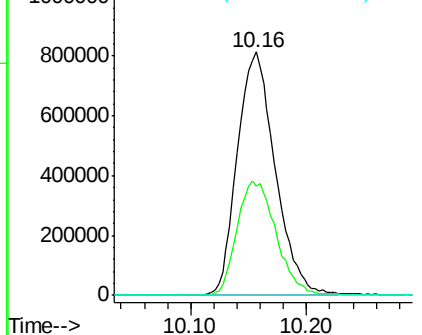
98 0.3 0.2 0.2#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.938 ppbv

RT: 11.25 min Scan# 2633

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Tgt Ion: 164 Resp: 697788

Ion Ratio Lower Upper

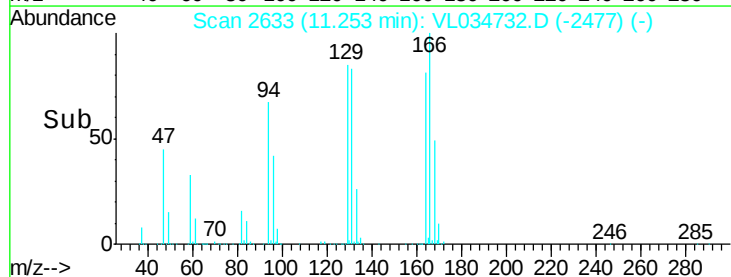
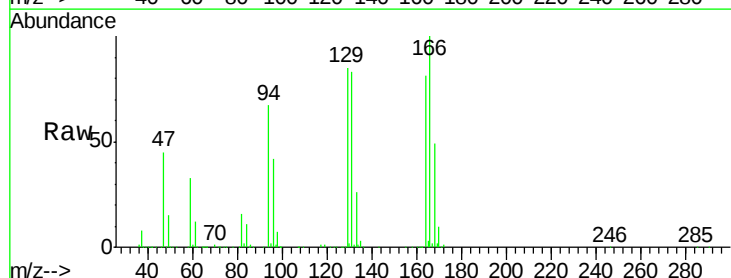
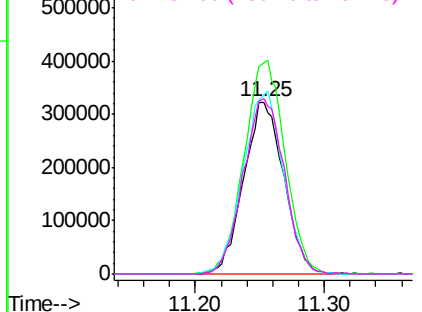
164 100

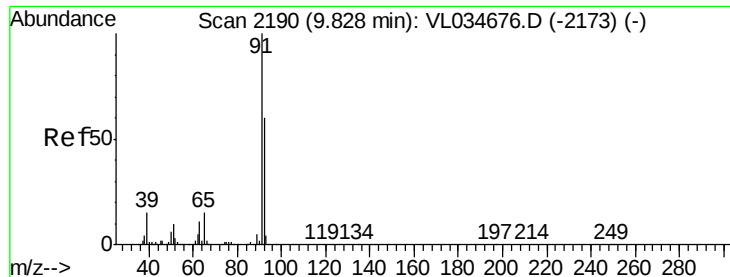
166 122.9 99.2 148.8

129 104.1 88.0 132.0

131 101.8 83.7 125.5

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.241 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2290364

Ion Ratio Lower Upper

91 100

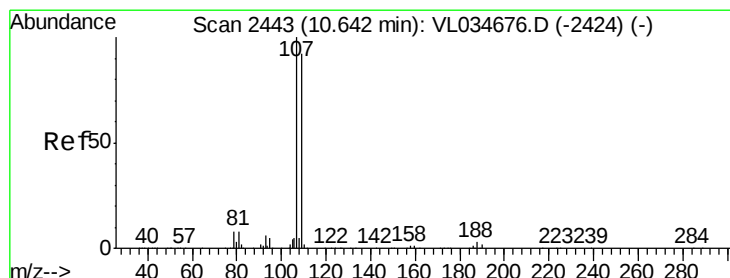
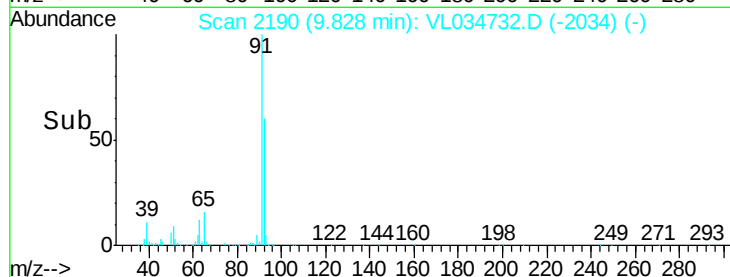
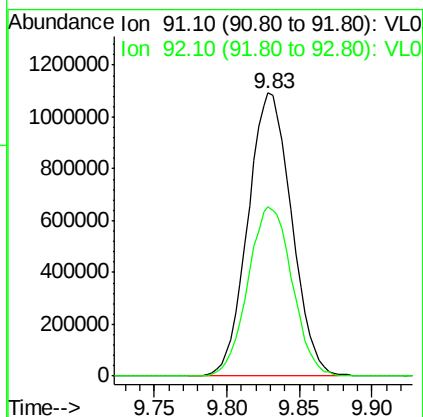
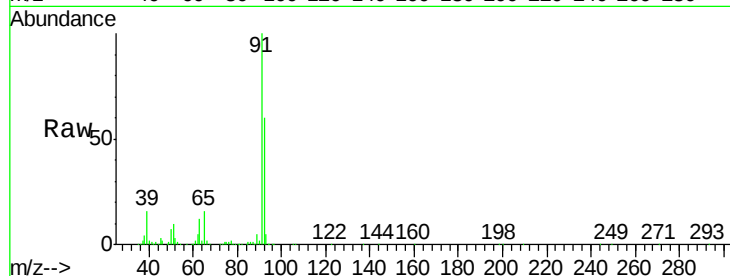
92 60.6 48.5 72.7

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3/2/2020 1:01:07 PM



#54

1,2-Dibromoethane

Concen: 10.795 ppbv

RT: 10.64 min Scan# 2443

Delta R.T. 0.00 min

Lab File: VL034732.D

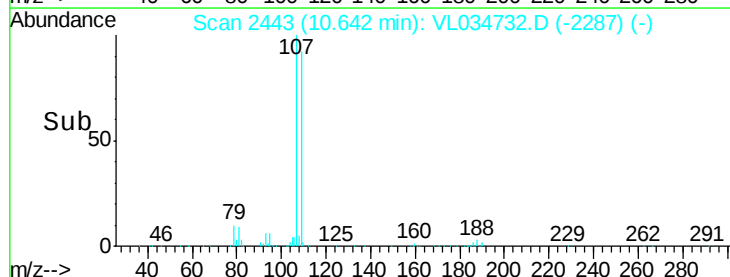
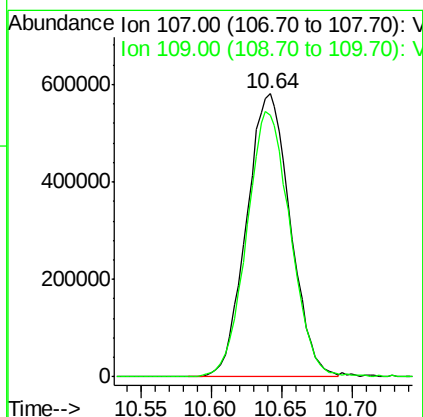
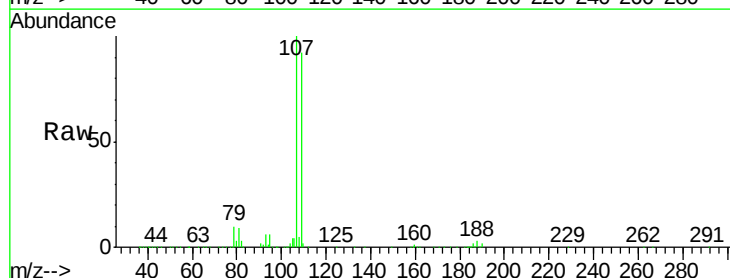
Acq: 28 Feb 2020 9:16

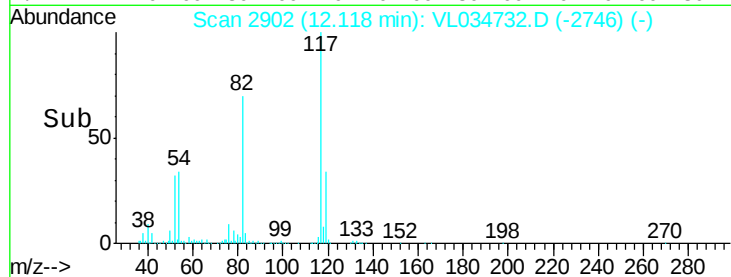
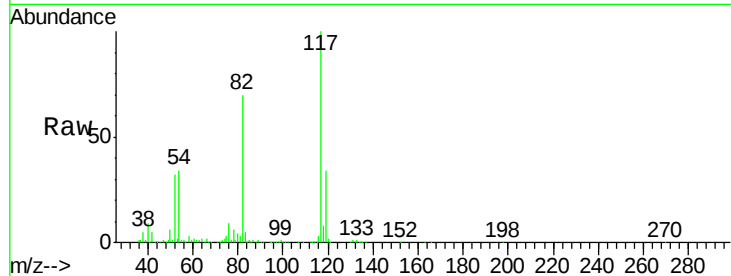
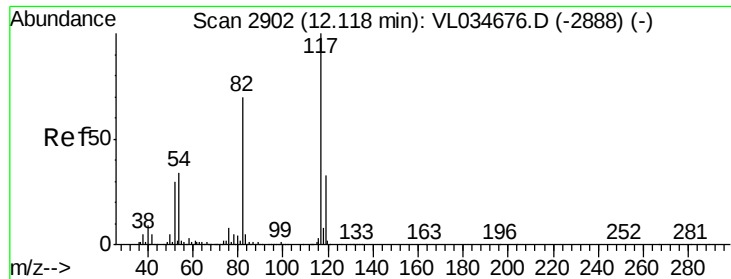
Tgt Ion: 107 Resp: 1259125

Ion Ratio Lower Upper

107 100

109 92.4 73.9 110.9





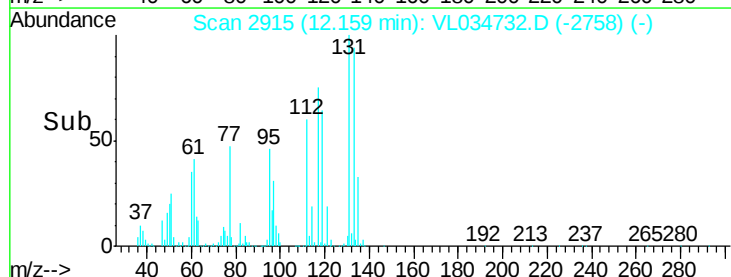
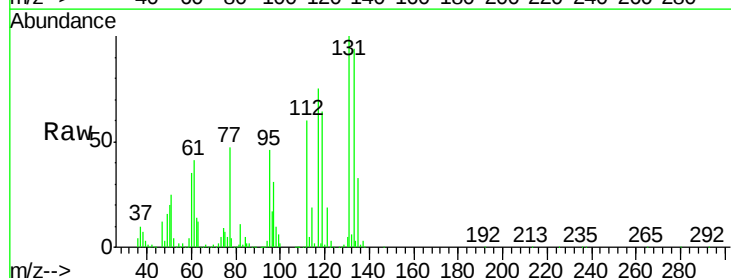
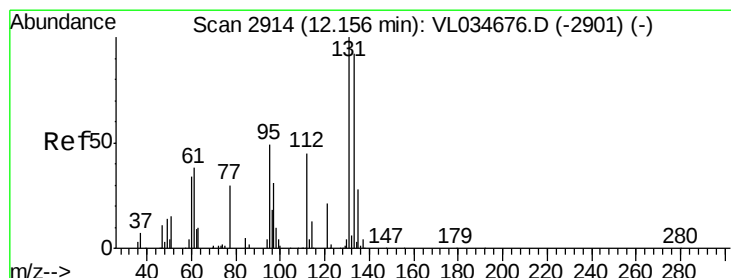
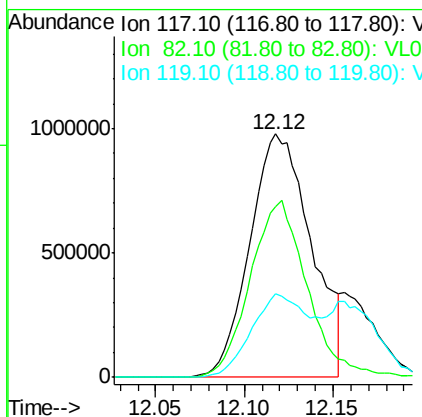
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.12 min Scan# 2902
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tot Ion:117 Resp: 2370465
Ion Ratio Lower Upper
117 100
82 67.8 54.1 81.1
119 33.0 27.6 41.4

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

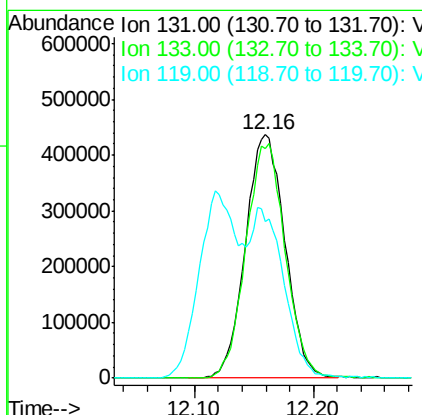
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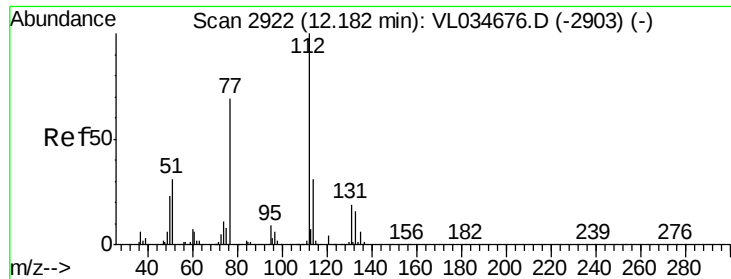
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.957 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion:131 Resp: 1005189
Ion Ratio Lower Upper
131 100
133 96.1 76.6 114.8
119 67.3 51.3 76.9





#57

Chlorobenzene

Concen: 9.567 ppbv

RT: 12.18 min Scan# 2921

Delta R.T. -0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 1676115

Ion Ratio Lower Upper

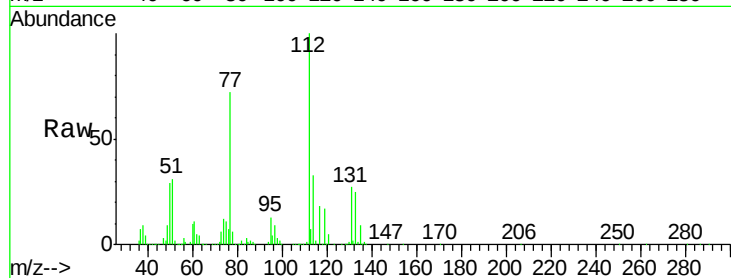
112 100

77 71.2 56.5 84.7

114 33.0 28.1 34.3

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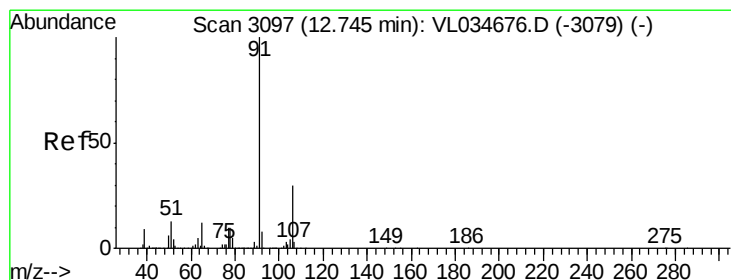
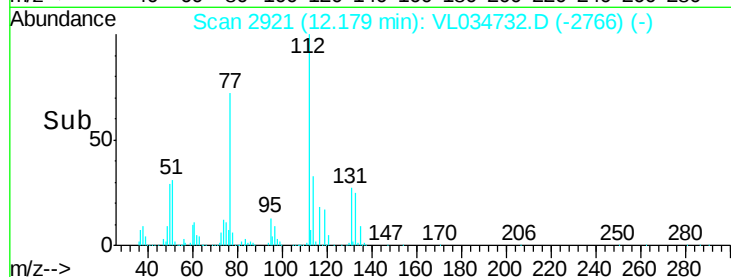
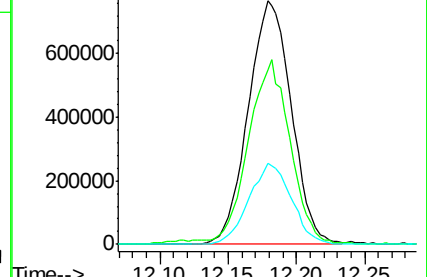
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.696 ppbv

RT: 12.75 min Scan# 3098

Delta R.T. 0.00 min

Lab File: VL034732.D

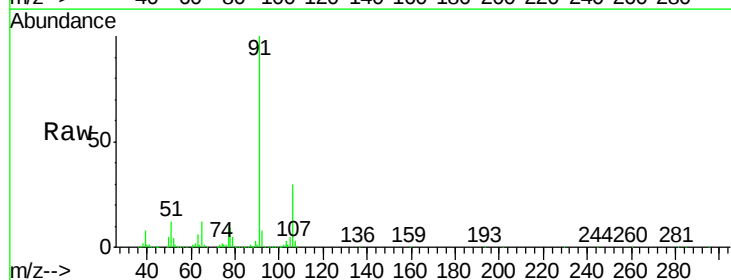
Acq: 28 Feb 2020 9:16

Tgt Ion: 91 Resp: 3067553

Ion Ratio Lower Upper

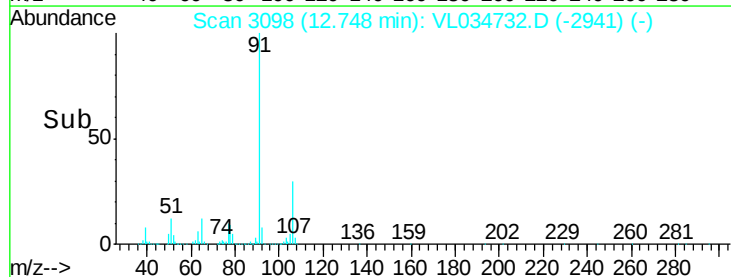
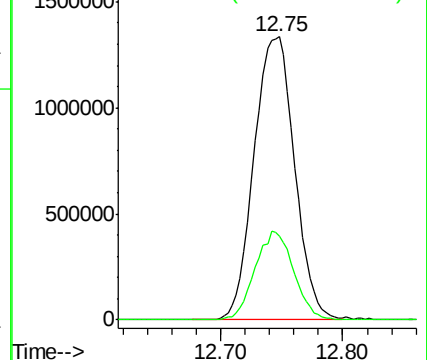
91 100

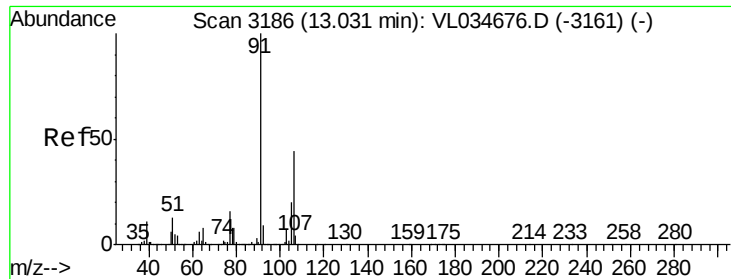
106 29.7 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





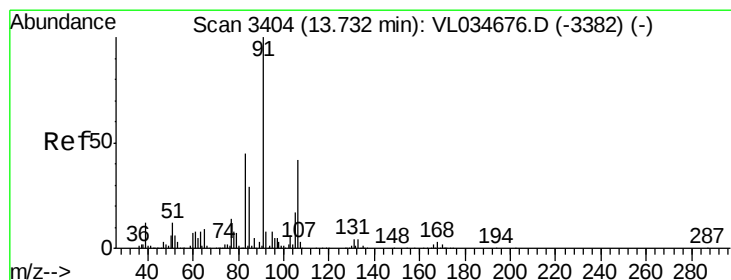
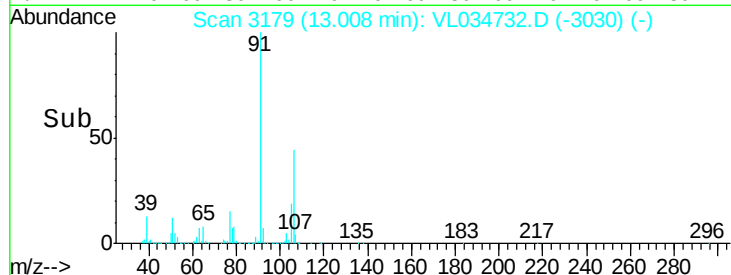
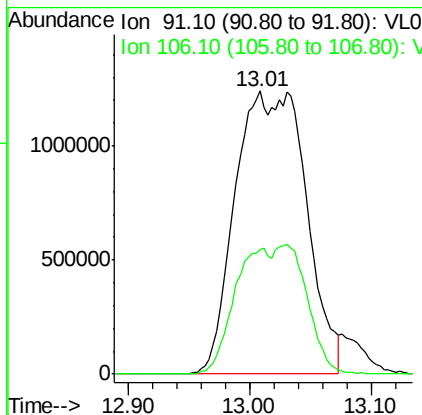
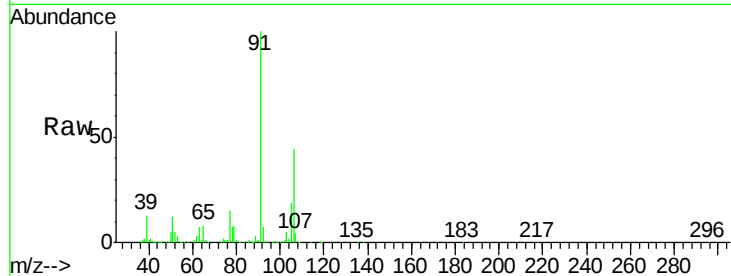
#59
m/p-Xylene
Concen: 20.056 ppbv m
RT: 13.01 min Scan# 3179
Delta R.T. -0.02 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5016856
Ion Ratio Lower Upper
91 100
106 44.8 35.6 53.4

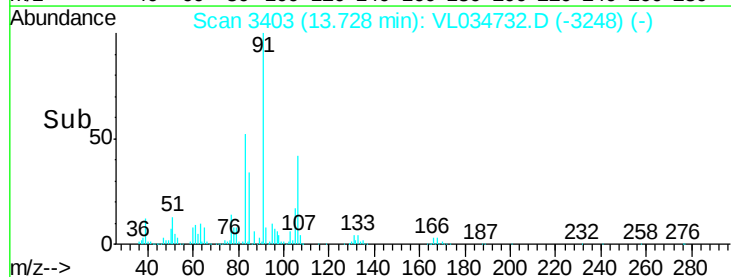
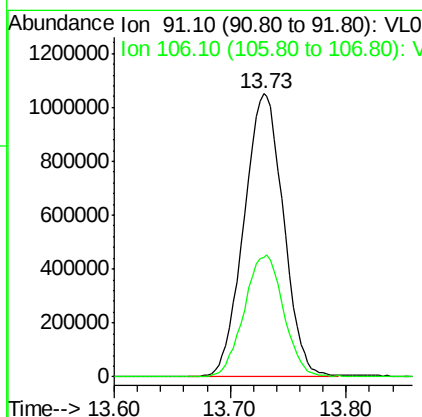
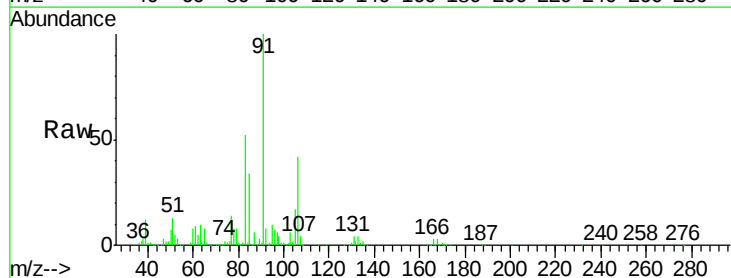
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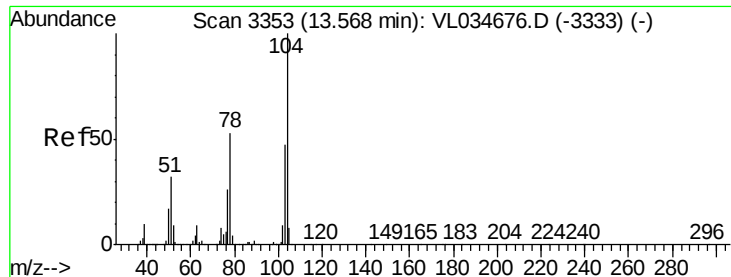
MMDadoda
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#60
o-Xylene
Concen: 10.016 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. -0.00 min
Lab File: VL034732.D
Acq: 28 Feb 2020 9:16

Tgt Ion: 91 Resp: 2486113
Ion Ratio Lower Upper
91 100
106 43.2 21.9 65.5





#61

Stvrene

Concen: 11.160 ppbv

RT: 13.56 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 1779480

Ion Ratio Lower Upper

104 100

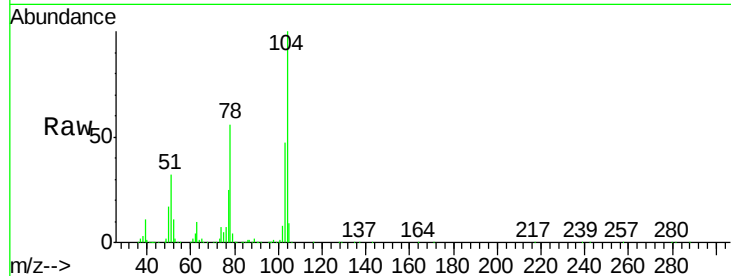
78 56.5 44.2 66.4

103 48.3 37.4 56.0

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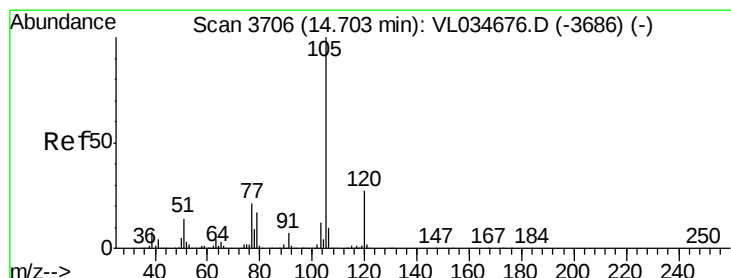
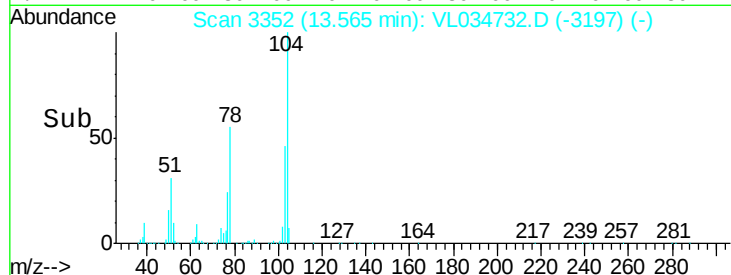
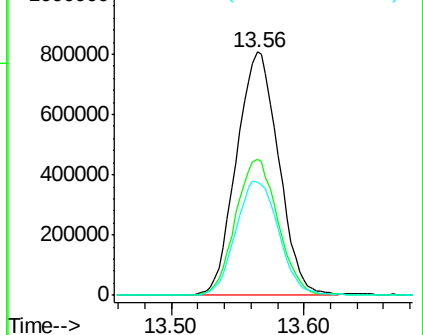
3/2/2020 1:01:07 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.122 ppbv

RT: 14.71 min Scan# 3707

Delta R.T. 0.00 min

Lab File: VL034732.D

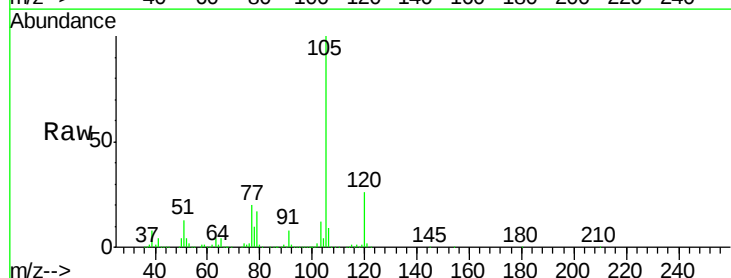
Acq: 28 Feb 2020 9:16

Tgt Ion:105 Resp: 3665009

Ion Ratio Lower Upper

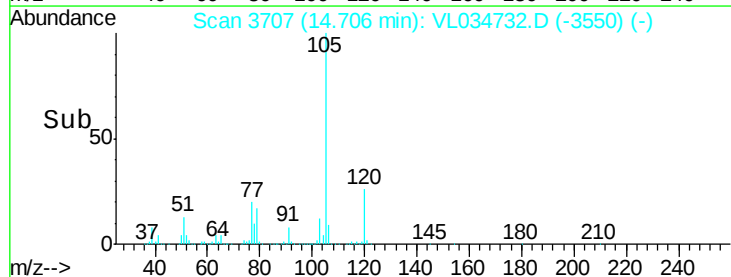
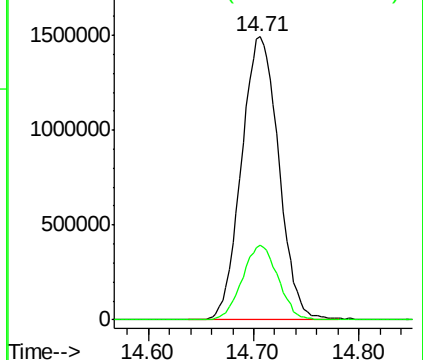
105 100

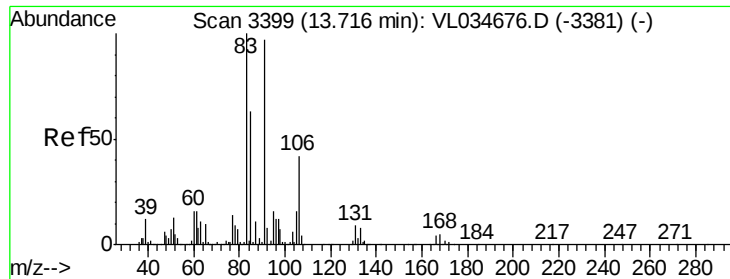
120 25.5 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





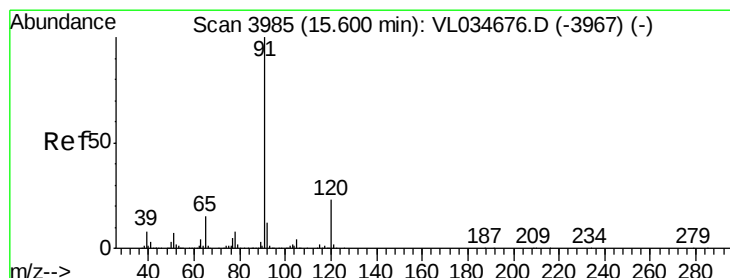
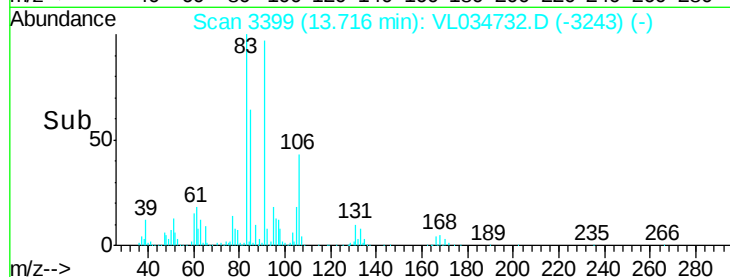
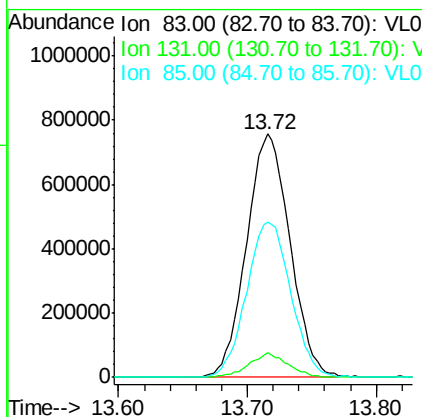
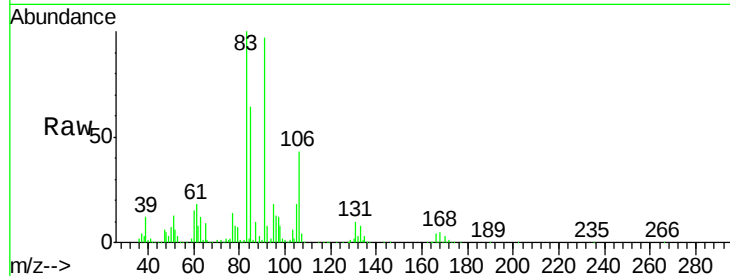
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.190 ppbv
 RT: 13.72 min Scan# 3399
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 1777805
 Ion Ratio Lower Upper
 83 100
 131 8.9 4.4 13.2
 85 65.0 32.5 97.5

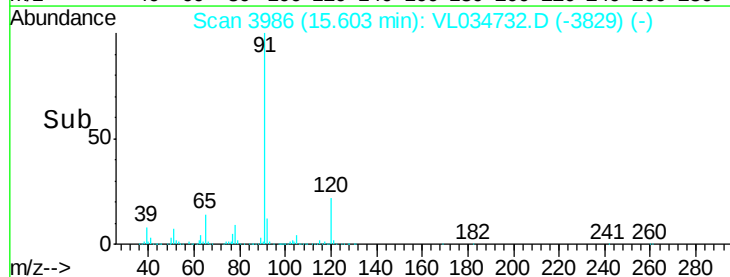
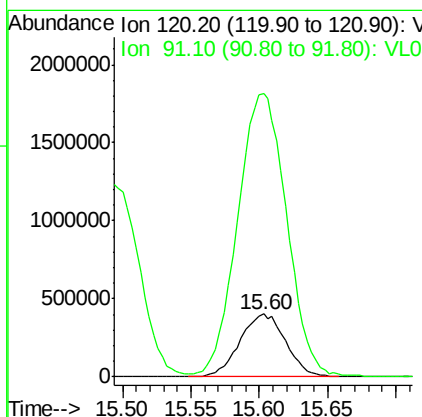
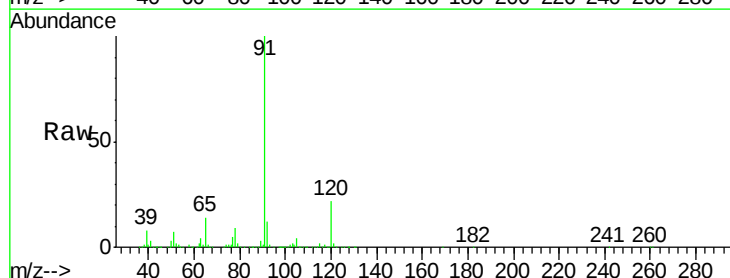
Manual Integrations
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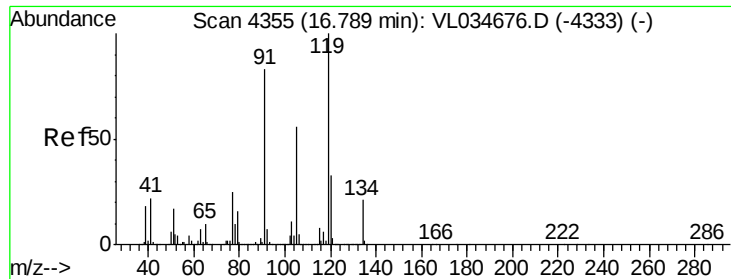
MMDadoda
 3/2/2020 1:01:07 PM



#64
 n-propylbenzene
 Concen: 10.017 ppbv
 RT: 15.60 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Tgt Ion: 120 Resp: 935061
 Ion Ratio Lower Upper
 120 100
 91 485.5 369.8 554.8





#65

tert-Butylbenzene

Concen: 10.034 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 119 Resp: 3137139

Ion Ratio Lower Upper

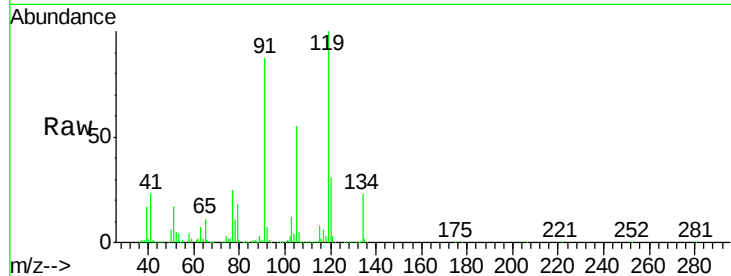
119 100

91 87.6 69.1 103.7

134 19.8 15.8 23.8

Manual Integrations
APPROVED

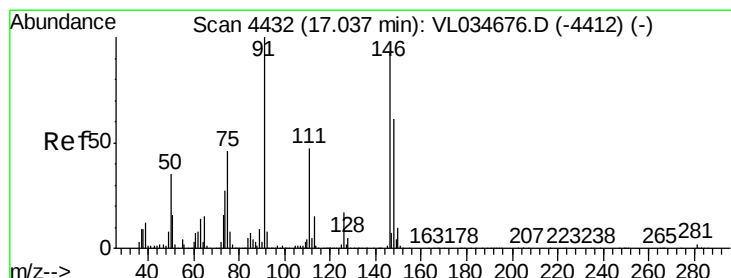
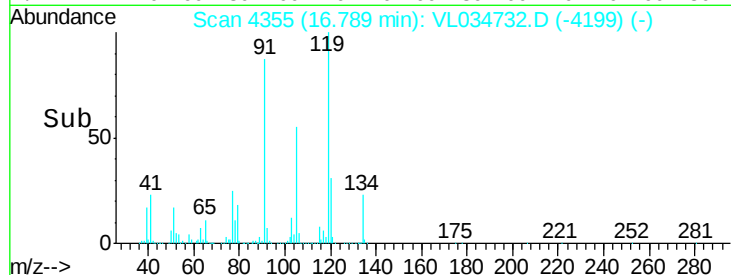
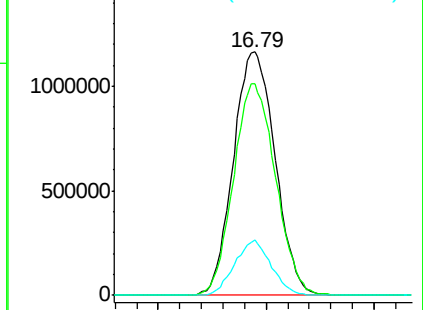
MMDadoda
3/2/2020 1:01:07 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.536 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. -0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

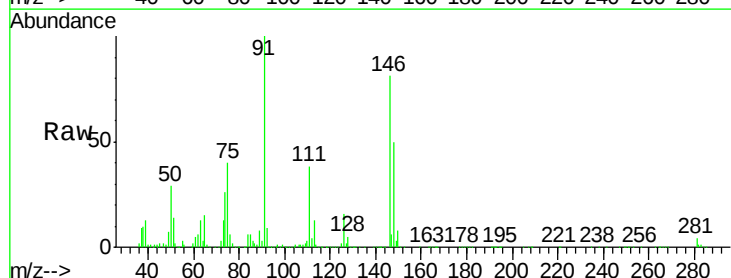
Tgt Ion: 91 Resp: 1462055

Ion Ratio Lower Upper

91 100

126 16.2 13.5 20.3

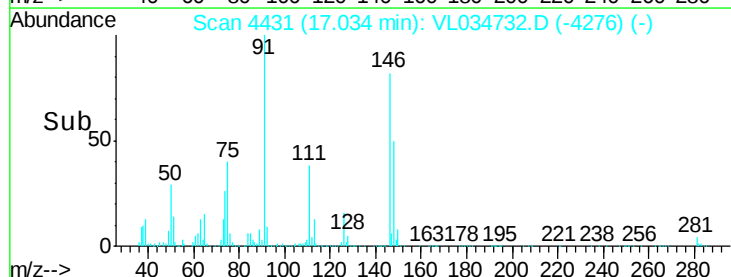
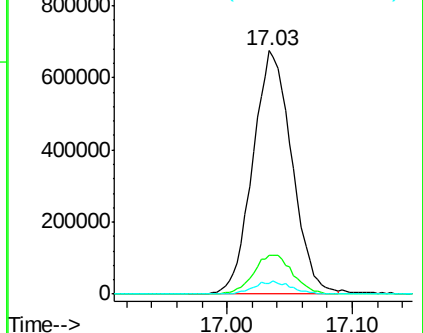
128 5.0 4.2 6.4

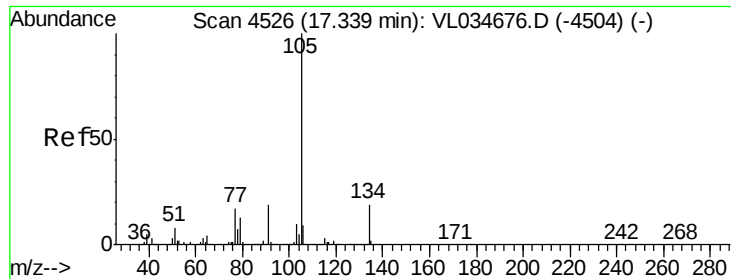


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





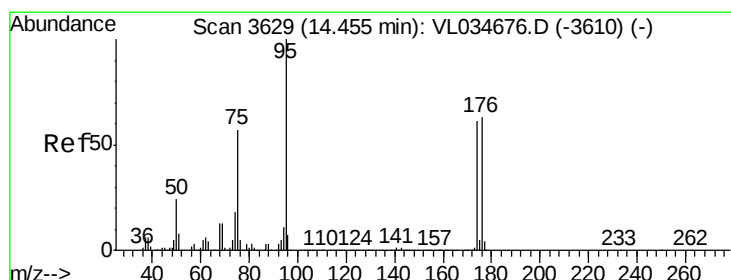
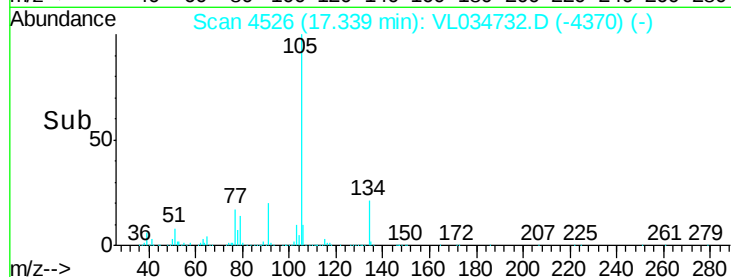
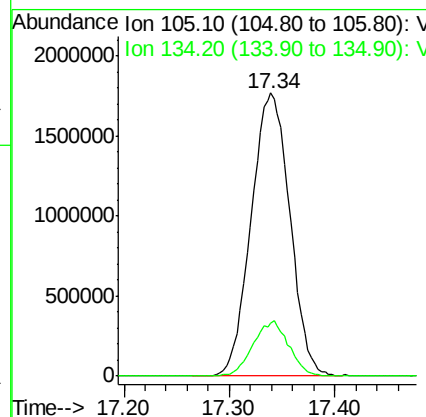
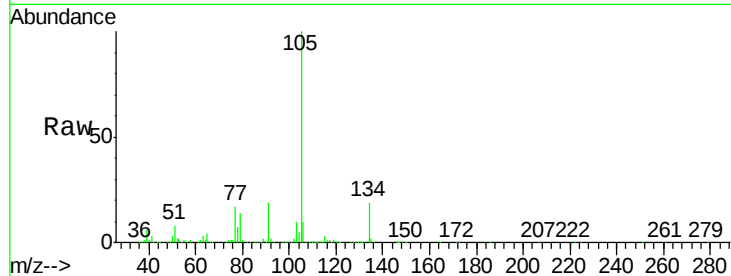
#67
 sec-Butylbenzene
 Concen: 10.019 ppbv
 RT: 17.34 min Scan# 4526
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 105 Resp: 4507720
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.8 22.2

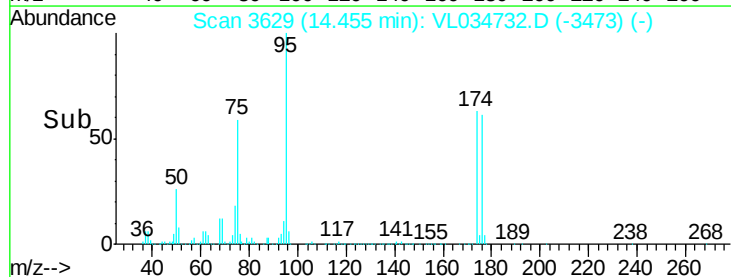
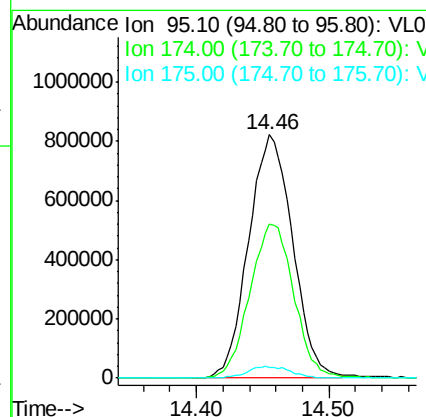
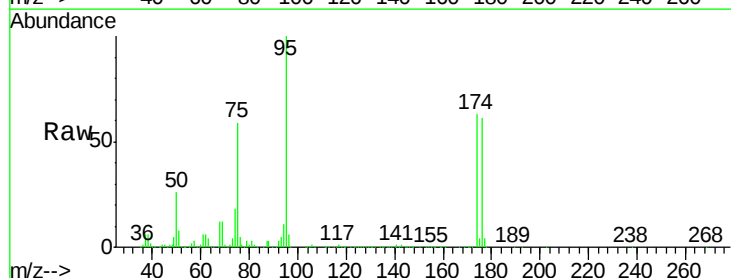
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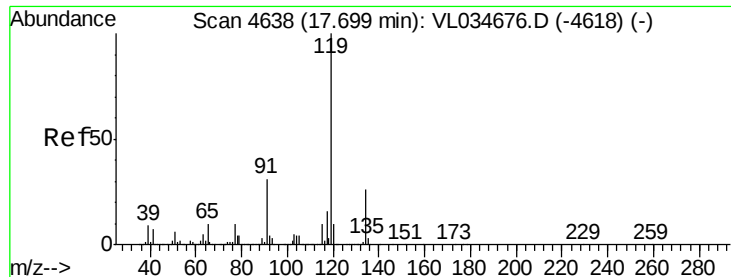
MMDadoda
 3/2/2020 1:01:07 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.756 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Tgt Ion: 95 Resp: 1896212
 Ion Ratio Lower Upper
 95 100
 174 63.7 50.7 76.1
 175 4.6 3.9 5.9





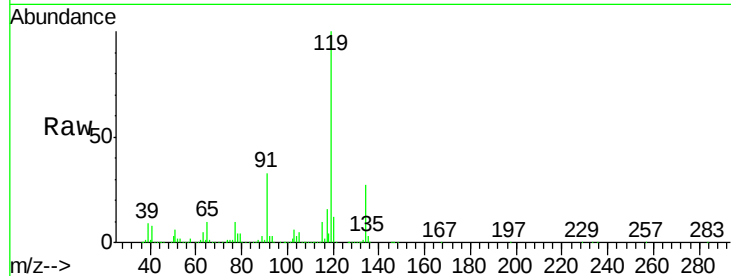
#69
 p-Isopropyltoluene
 Concen: 10.084 ppbv
 RT: 17.70 min Scan# 4637
 Delta R.T. -0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0
91	32.2	25.3	37.9

Manual Integrations
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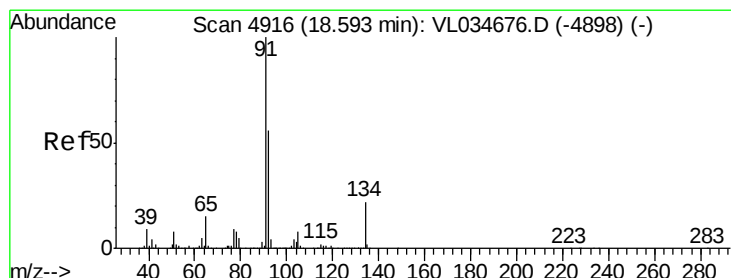
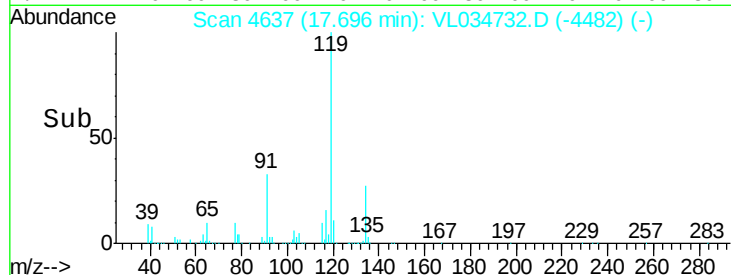
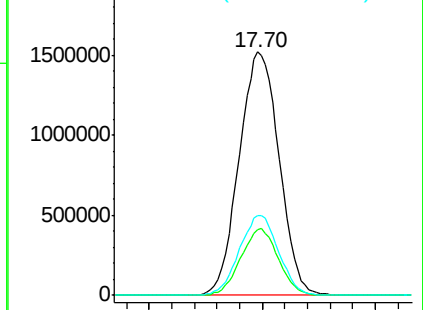


Abundance

Ion 119.10 (118.80 to 119.80): V

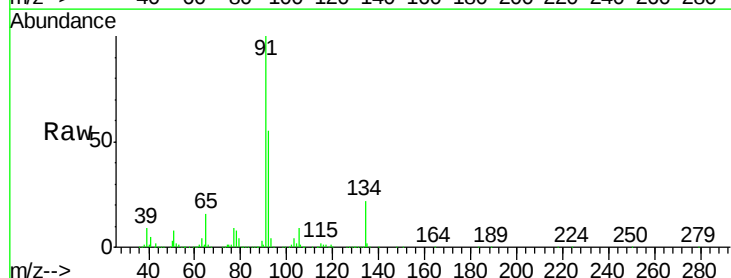
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
 n-Butylbenzene
 Concen: 10.010 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.7	43.8	65.6
134	22.1	17.6	26.4

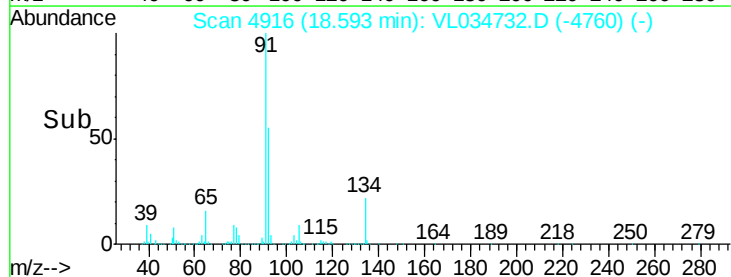
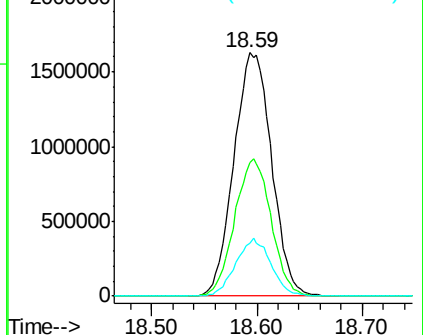


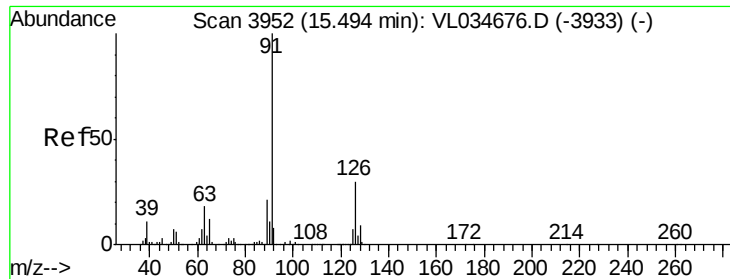
Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.239 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2871332

Ion Ratio Lower Upper

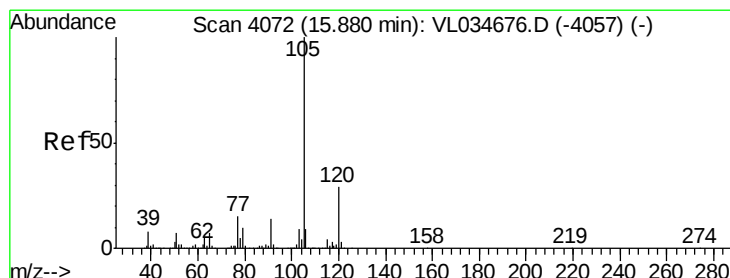
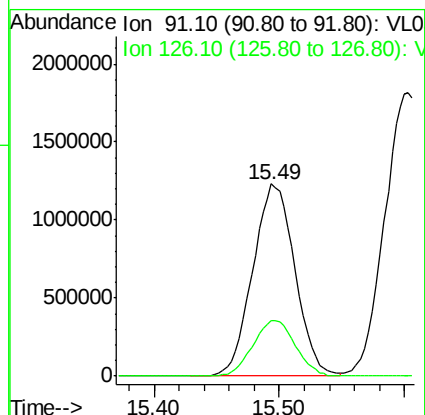
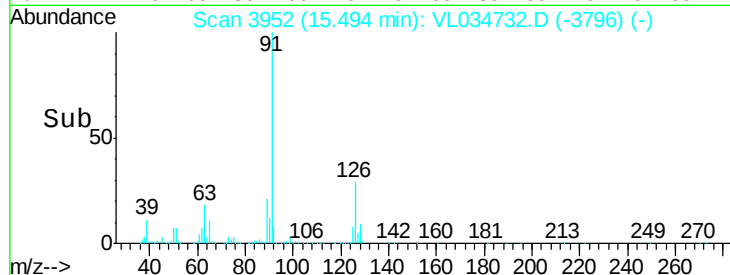
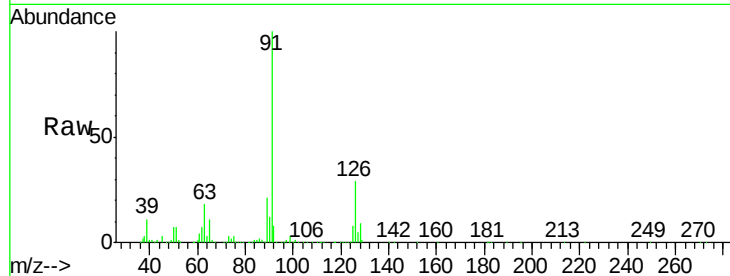
91 100

126 29.3 11.8 47.2

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3/2/2020 1:01:07 PM



#72

4-Ethyltoluene

Concen: 10.684 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Tgt Ion:105 Resp: 2951733

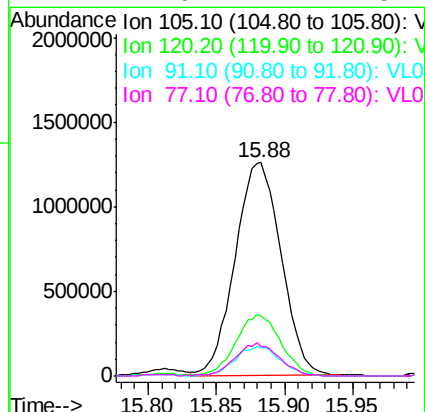
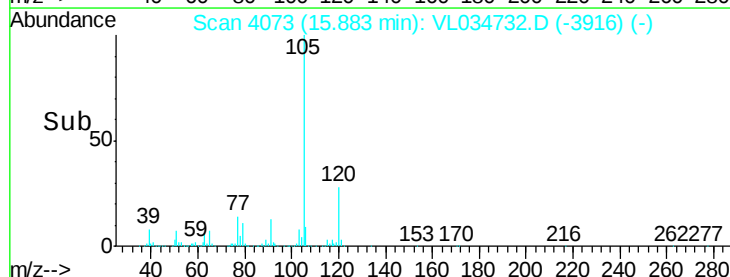
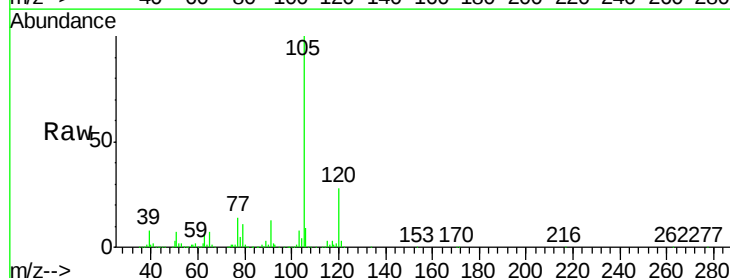
Ion Ratio Lower Upper

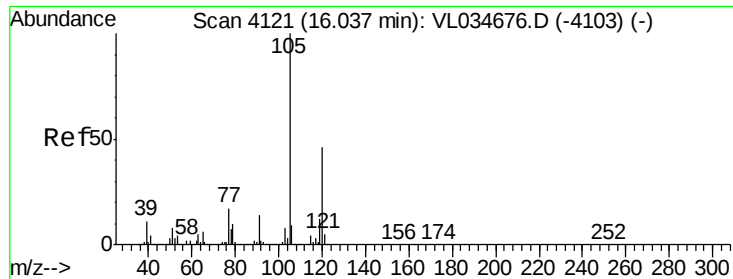
105 100

120 28.3 23.7 35.5

91 13.4 10.9 16.3

77 14.6 12.2 18.2





#73

1,3,5-Trimethylbenzene

Concen: 10.467 ppbv

RT: 16.04 min Scan# 4121

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2781756

Ion Ratio Lower Upper

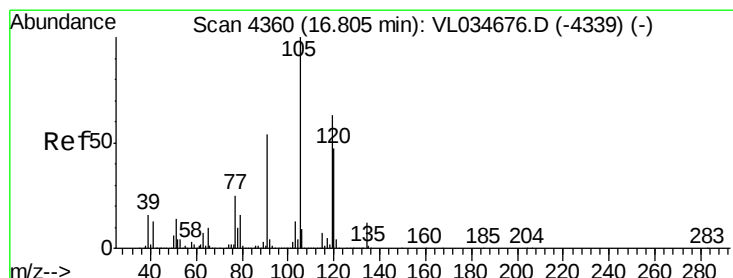
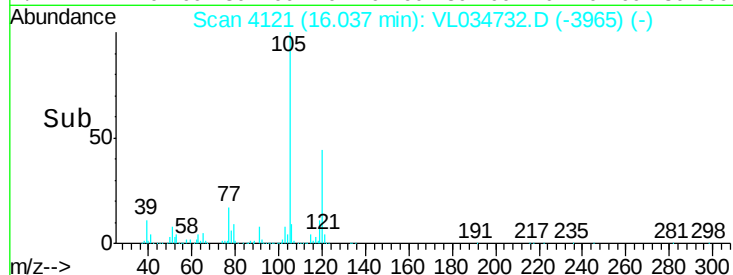
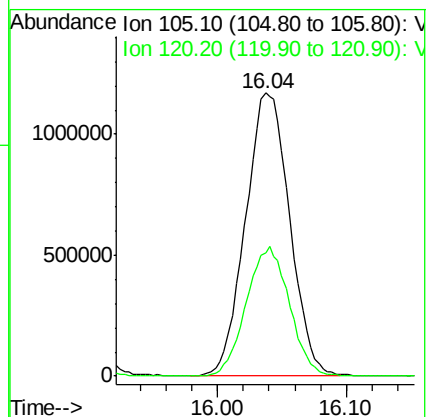
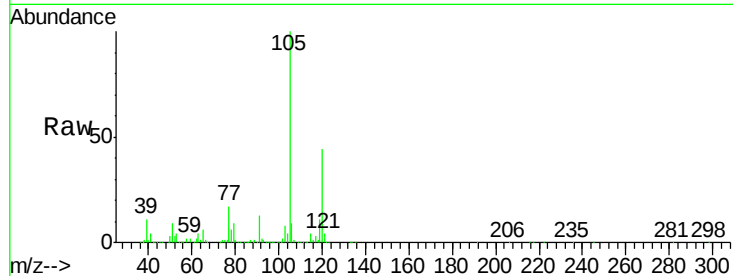
105 100

120 43.7 37.1 55.7

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3/2/2020 1:01:07 PM



#74

1,2,4-Trimethylbenzene

Concen: 9.675 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Tgt Ion:105 Resp: 2839675

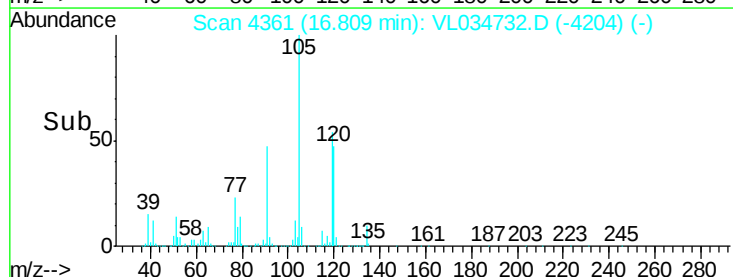
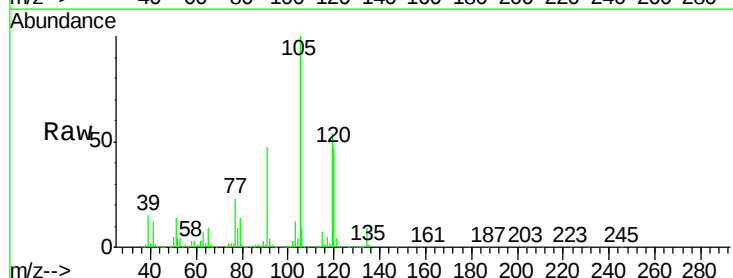
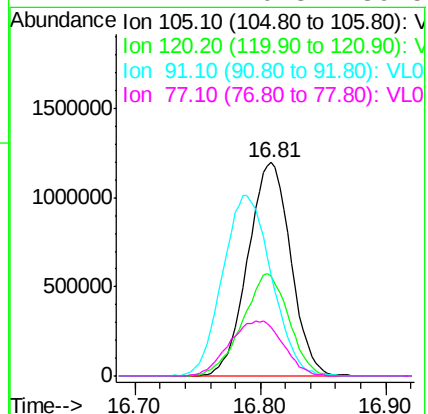
Ion Ratio Lower Upper

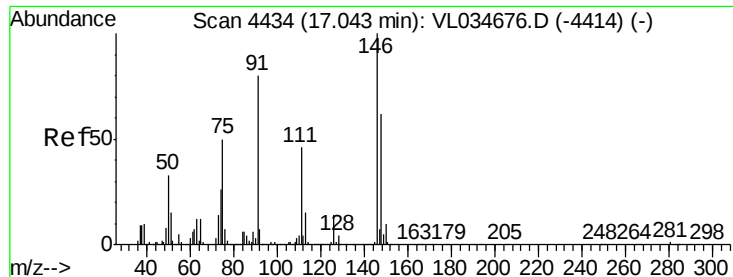
105 100

120 46.9 37.9 56.9

91 47.1 43.9 65.9

77 22.4 20.3 30.5





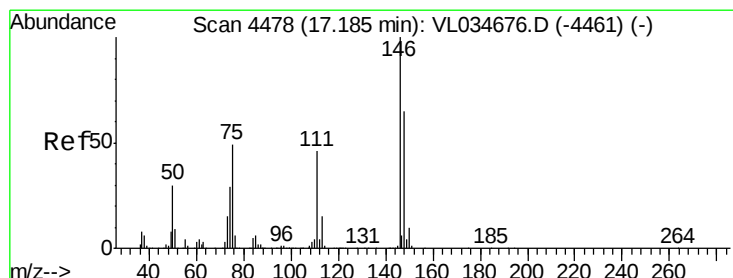
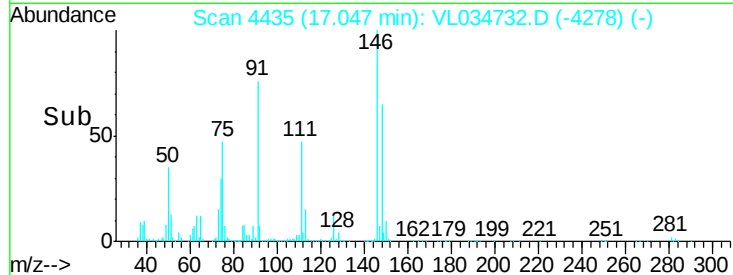
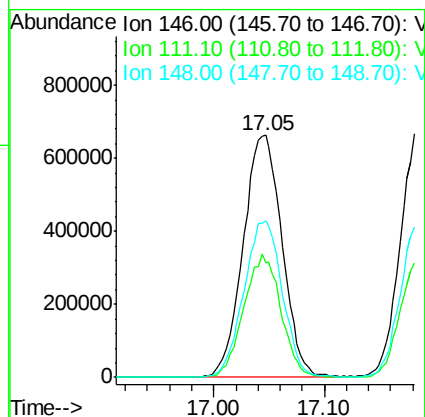
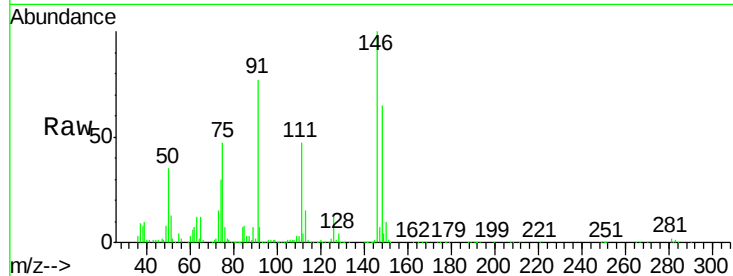
#75
 1,3-Dichlorobenzene
 Concen: 9.567 ppbv
 RT: 17.05 min Scan# 4435
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1620927
 Ion Ratio Lower Upper
 146 100
 111 48.3 24.4 73.2
 148 64.0 32.5 97.4

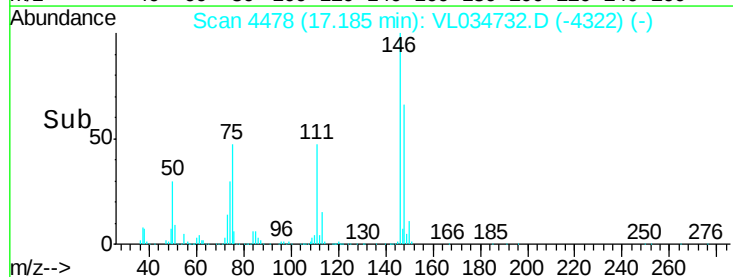
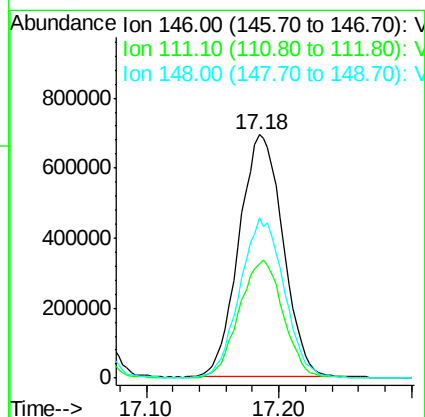
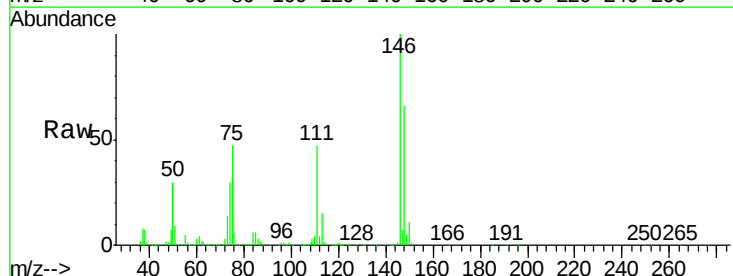
Manual Integrations
 APPROVED

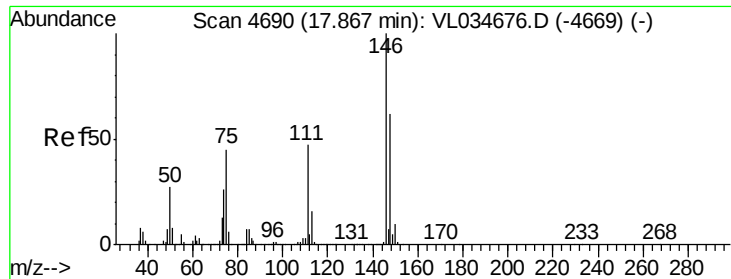
MMDadoda
 3/2/2020 1:01:07 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.432 ppbv
 RT: 17.18 min Scan# 4478
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Tgt Ion:146 Resp: 1598785
 Ion Ratio Lower Upper
 146 100
 111 49.0 23.4 70.0
 148 66.4 31.9 95.5





#77

1,2-Dichlorobenzene

Concen: 9.630 ppbv

RT: 17.87 min Scan# 4690

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1577415

Ion Ratio Lower Upper

146 100

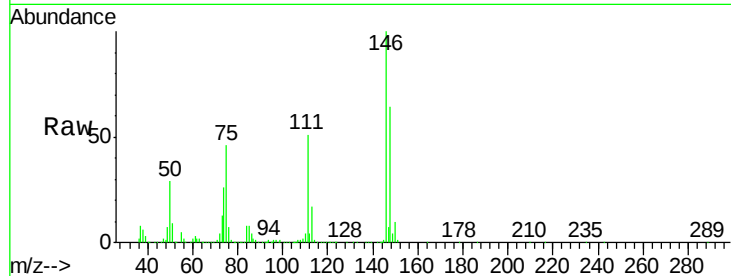
111 50.4 24.9 74.7

148 64.2 32.0 96.0

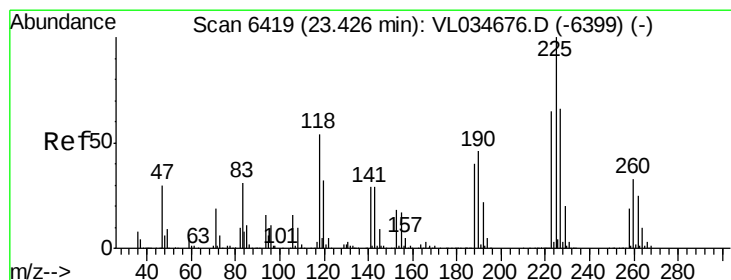
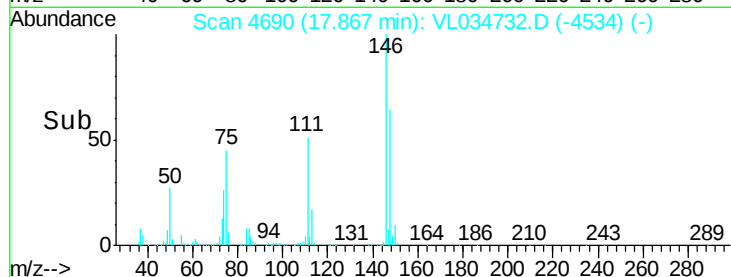
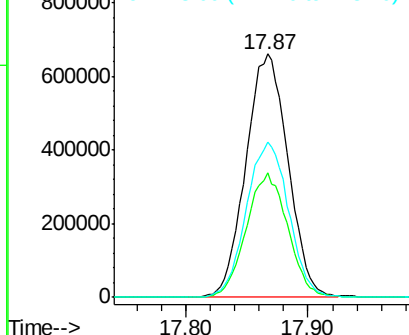
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.772 ppbv

RT: 23.43 min Scan# 6420

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

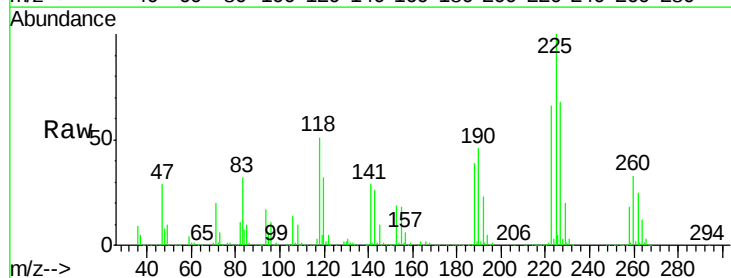
Tgt Ion:225 Resp: 1393752

Ion Ratio Lower Upper

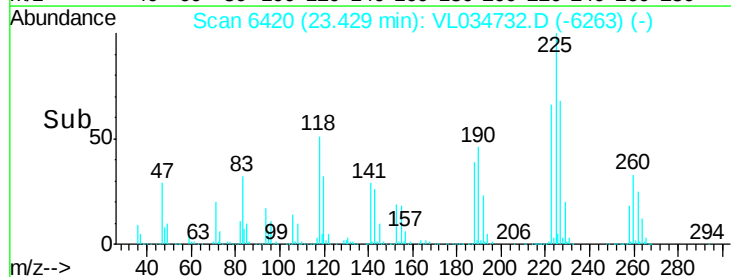
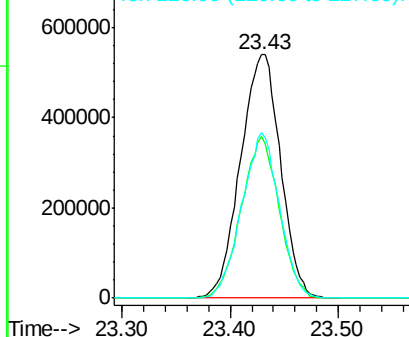
225 100

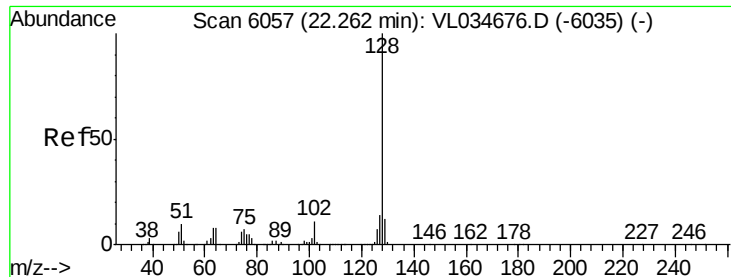
223 62.9 51.3 76.9

227 63.9 51.3 76.9



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.544 ppbv

RT: 22.27 min Scan# 6058

Delta R.T. 0.00 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 2723500

Ion Ratio Lower Upper

128 100

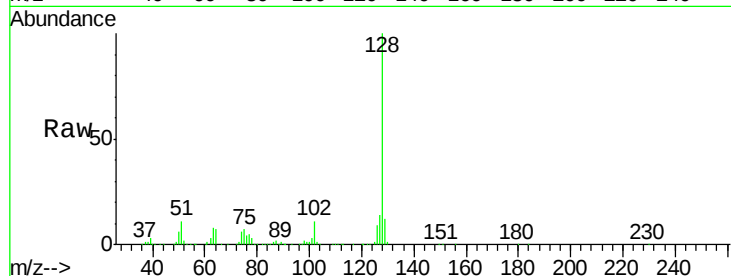
127 13.6 11.0 16.6

129 11.7 9.4 14.2

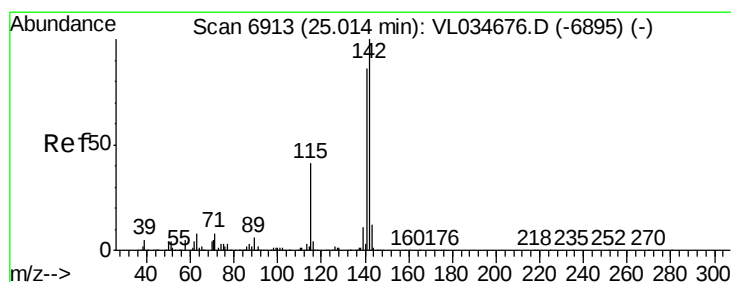
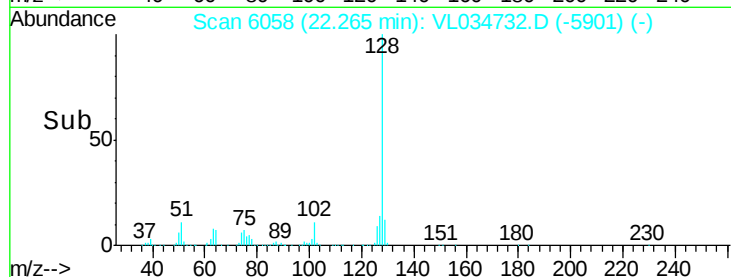
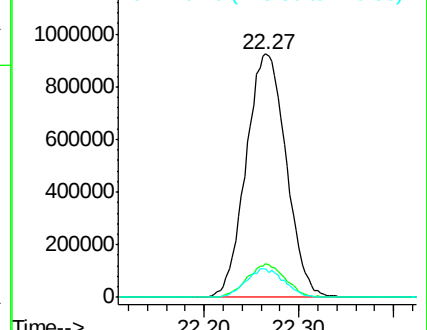
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 15.877 ppbv

RT: 25.02 min Scan# 6915

Delta R.T. 0.01 min

Lab File: VL034732.D

Acq: 28 Feb 2020 9:16

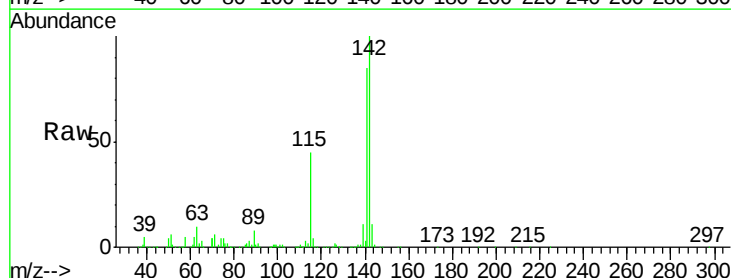
Tgt Ion:142 Resp: 1265012

Ion Ratio Lower Upper

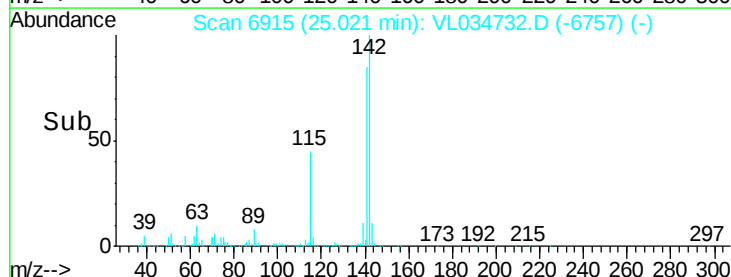
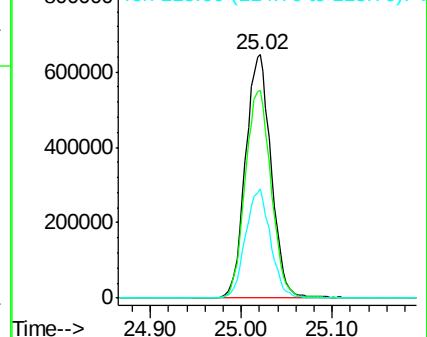
142 100

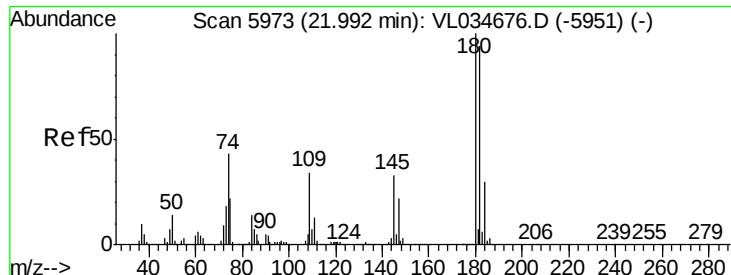
141 86.5 66.5 99.7

115 44.0 30.6 46.0



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: 10.008 ppbv
 RT: 22.00 min Scan# 5974
 Delta R.T. 0.00 min
 Lab File: VL034732.D
 Acq: 28 Feb 2020 9:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.5	114.7
184	30.9	25.2	37.8

Manual Integrations
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MMDadoda
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