

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\
 Data File : VL036052.D
 Acq On : 3 Dec 2020 13:36
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:26 PM

Quant Time: Dec 03 14:22:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 03 2020
 QLast Update : Thu Dec 03 12:00:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1156676	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4159033	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	4248123m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3270502	10.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	2273612	10.440	ppbv	99
3) Chlorodifluoromethane	2.97	51	1882689	13.592	ppbv	99
4) Chloromethane	3.13	50	915949	13.612	ppbv	99
5) Vinyl Chloride	3.24	62	1197781	13.964	ppbv	100
6) Bromomethane	3.46	94	975623	14.142	ppbv	100
7) Chloroethane	3.54	64	435674	14.431	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	3174666	12.738	ppbv	99
9) Propene	3.00	41	724516	14.291	ppbv	100
10) Heptane	8.11	43	2150227	15.355	ppbv	100
11) Trichlorofluoromethane	3.94	101	3759030	13.747	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2884928	14.170	ppbv	99
13) Ethanol	3.59	45	98813	8.984	ppbv	98
14) Bromoethene	3.73	108	1260030	13.448	ppbv	100
15) Acetone	3.84	43	1604379	12.974	ppbv	100
16) 1,3-Butadiene	3.31	39	772217	14.504	ppbv	100
17) tert-Butyl alcohol	4.28	59	1667385	10.174	ppbv	100
18) 1,1-Dichloroethene	4.28	96	1332734	14.258	ppbv	97
19) Isopropyl Alcohol	3.96	45	772771	10.169	ppbv	99
20) Methylene Chloride	4.33	84	1116694	12.828	ppbv	98
21) Allyl Chloride	4.40	41	981389	14.675	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	1369702	14.454	ppbv	98
23) Vinyl Acetate	5.06	43	2311522	13.335	ppbv	100
24) 1,1-Dichloroethane	5.00	63	2277061	13.789	ppbv	100
25) Ethyl Acetate	5.67	43	3513475	14.423	ppbv	100
26) Hexane	5.67	57	1868877	13.911	ppbv	99
27) Carbon Disulfide	4.54	76	3004792	14.926	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	2921916	12.111	ppbv	100
29) Chloroform	5.74	83	3515497	13.313	ppbv	97
30) Cyclohexane	7.12	84	1936954	13.237	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1918155	13.879	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	3379493	12.264	ppbv	100
34) 2-Butanone	5.23	43	2198676	16.289	ppbv	99
35) Carbon Tetrachloride	7.01	117	3400835	15.304	ppbv	98
36) Benzene	6.88	78	4426271	14.315	ppbv	99
37) 1,2-Dichloroethane	6.30	62	2236210	15.964	ppbv	99
38) Trichloroethene	7.83	130	2061051	13.647	ppbv	99
39) 1,2-Dichloropropane	7.61	63	1614724	15.512	ppbv	99
40) 1,4-Dioxane	7.82	88	546788	11.083	ppbv	92
41) Tetrahydrofuran	6.04	42	1281050	16.705	ppbv	99
42) Bromodichloromethane	7.79	83	3766497	15.936	ppbv	98
43) Methyl Methacrylate	8.01	69	1906902	16.169	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\
 Data File : VL036052.D
 Acq On : 3 Dec 2020 13:36
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

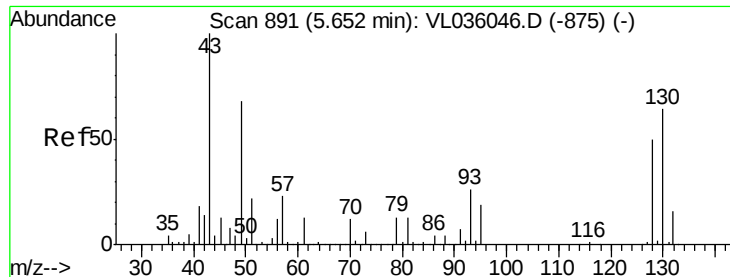
Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:26 PM

Quant Time: Dec 03 14:22:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 03 2020
 QLast Update : Thu Dec 03 12:00:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	6157788	15.050	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	2040851	16.324	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	2505539	15.824	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	2084950	14.699	ppbv	98
48) Dibromochloromethane	10.30	129	3355329	15.484	ppbv	99
49) Bromoform	13.04	173	2699061	14.761	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	3516294	17.037	ppbv	98
51) 2-Hexanone	10.13	43	2874093	17.335	ppbv #	98
52) Tetrachloroethene	11.22	164	1856109	12.671	ppbv	98
53) Toluene	9.80	91	5354885	14.353	ppbv	99
54) 1,2-Dibromoethane	10.61	107	3139950	14.556	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	2578777	13.525	ppbv #	69
57) Chlorobenzene	12.14	112	4286851	12.692	ppbv	96
58) Ethyl Benzene	12.71	91	6773064	13.091	ppbv	94
59) m/p-Xylene	12.99	91	11575229m	26.443	ppbv	
60) o-Xylene	13.69	91	5716270	13.424	ppbv	98
61) Styrene	13.52	104	4123690	13.217	ppbv	98
62) Isopropylbenzene	14.66	105	8130946	12.148	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.67	83	4112303	12.463	ppbv	100
64) n-propylbenzene	15.56	120	2448101	12.654	ppbv	87
65) tert-Butylbenzene	16.74	119	7119506	11.687	ppbv	98
66) Benzyl Chloride	16.99	91	2314951	11.496	ppbv	99
67) sec-Butylbenzene	17.29	105	9334212	11.370	ppbv	96
69) p-Isopropyltoluene	17.65	119	7667186	11.317	ppbv	97
70) n-Butylbenzene	18.55	91	7613782	11.670	ppbv	97
71) 2-Chlorotoluene	15.45	91	6184036	12.632	ppbv	97
72) 4-Ethyltoluene	15.84	105	6489542	12.565	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	5953514	12.596	ppbv	95
74) 1,2,4-Trimethylbenzene	16.76	105	6143303	12.131	ppbv	96
75) 1,3-Dichlorobenzene	17.00	146	3706388	11.494	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	3609237	11.603	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	3462149	11.014	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	1963927	13.390	ppbv	99
79) Naphthalene	22.19	128	4324965	12.251	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	1428351	24.827	ppbv	99
81) 1,2,4-Trichlorobenzene	21.92	180	2533237	12.843	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1156676

Ion Ratio Lower Upper

49 100

128 77.4 38.3 114.8

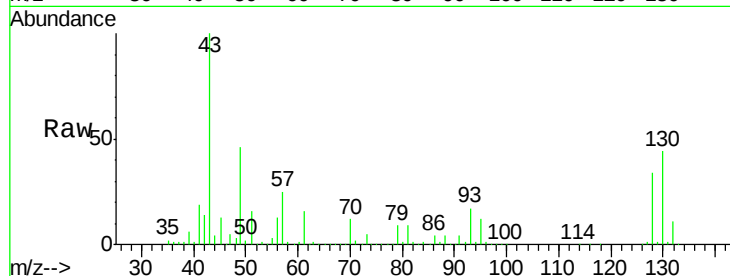
130 99.1 49.1 147.4

Manual Integrations

APPROVED

MMDadoda

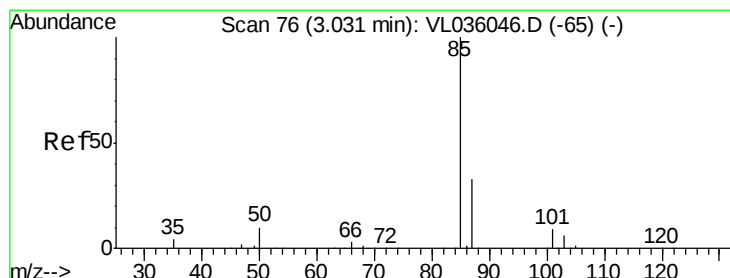
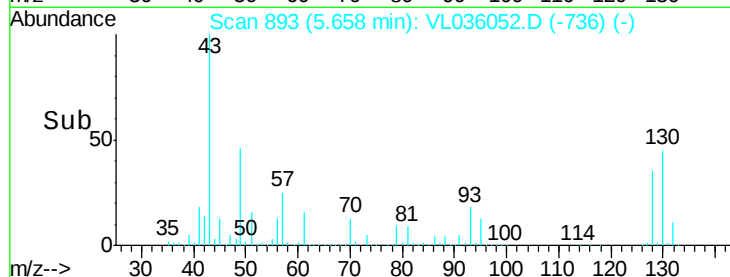
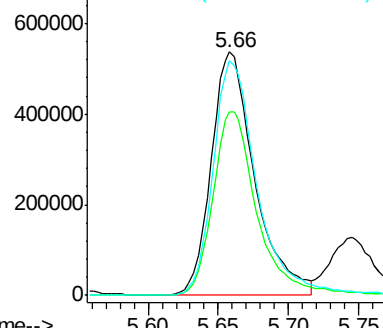
12/7/2020 12:08:26 PM



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



#2

Dichlorodifluoromethane

Concen: 10.440 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL036052.D

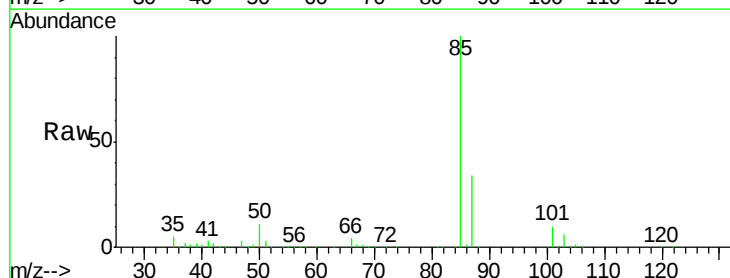
Acq: 3 Dec 2020 13:36

Tgt Ion: 85 Resp: 2273612

Ion Ratio Lower Upper

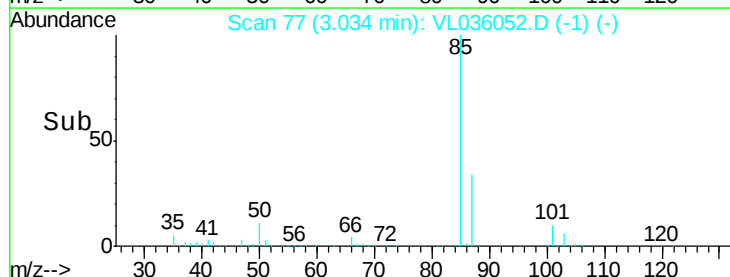
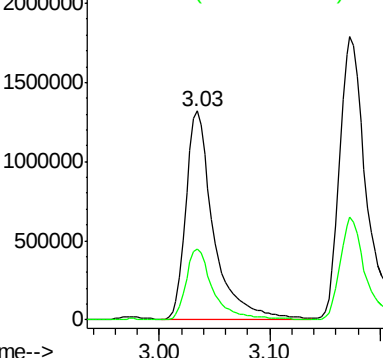
85 100

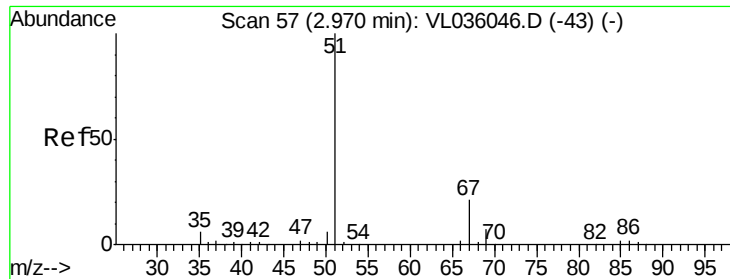
87 34.1 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.592 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1882689

Ion Ratio Lower Upper

51 100

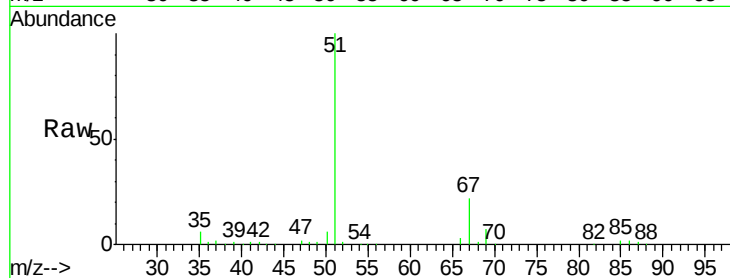
67 21.4 16.9 25.3

Manual Integrations

APPROVED

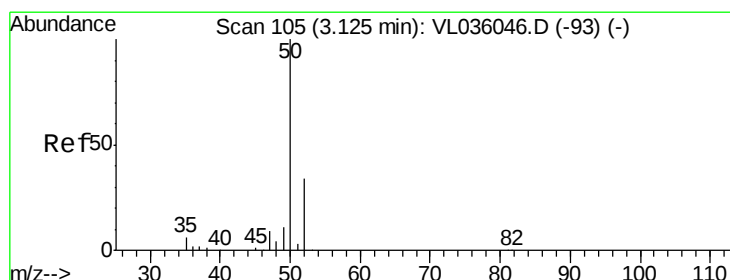
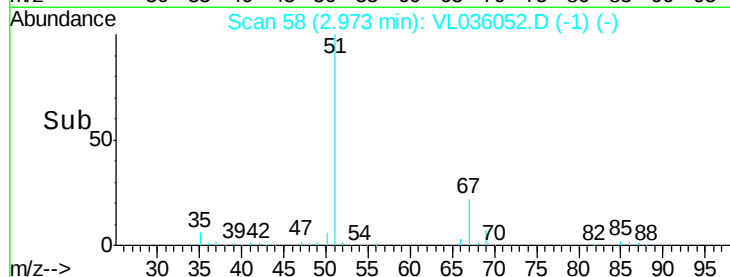
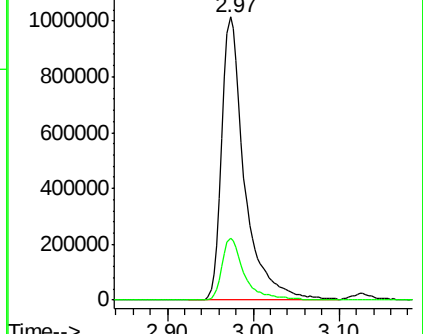
MMDadoda

12/7/2020 12:08:26 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.612 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL036052.D

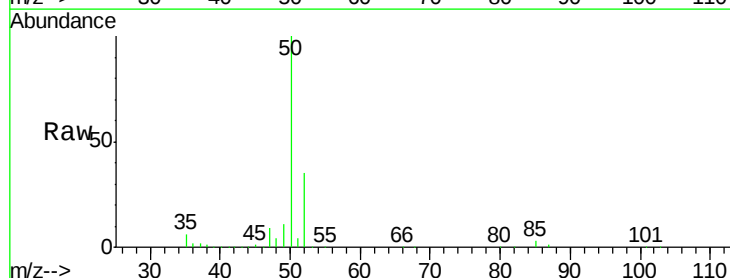
Acq: 3 Dec 2020 13:36

Tgt Ion: 50 Resp: 915949

Ion Ratio Lower Upper

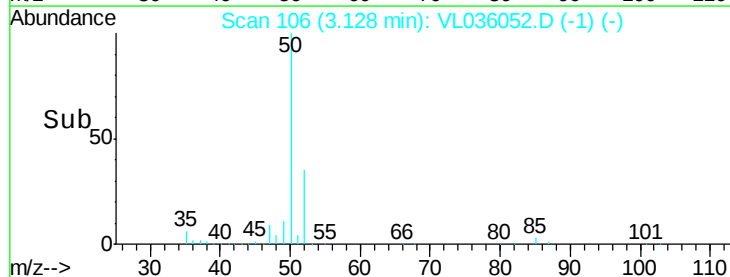
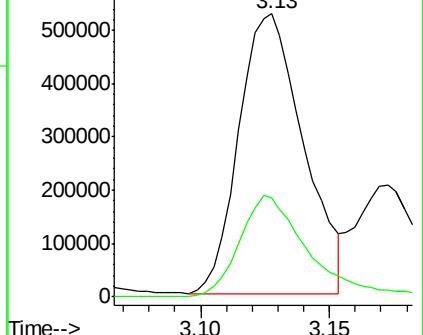
50 100

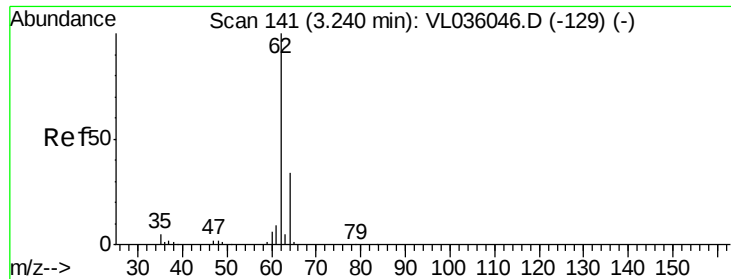
52 35.1 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.964 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1197781

Ion Ratio Lower Upper

62 100

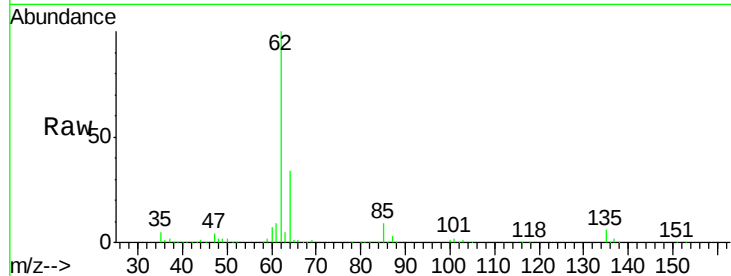
64 33.8 26.8 40.2

Manual Integrations

APPROVED

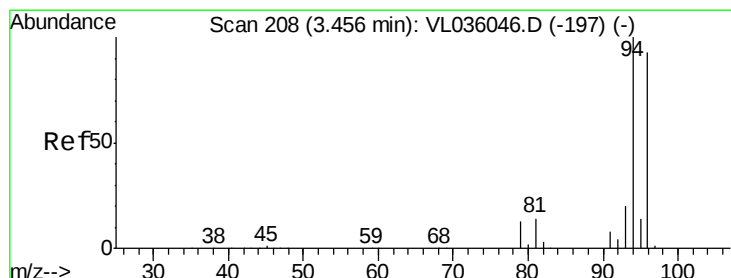
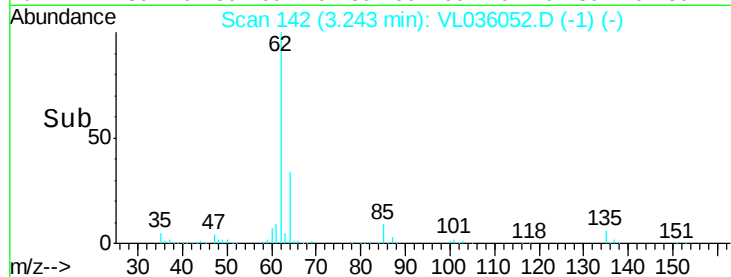
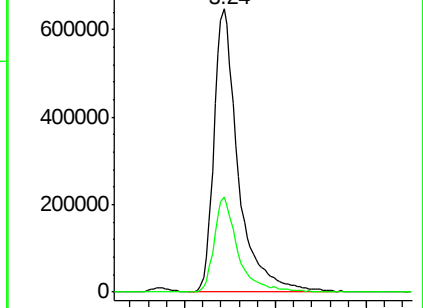
MMDadoda

12/7/2020 12:08:26 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 14.142 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.01 min

Lab File: VL036052.D

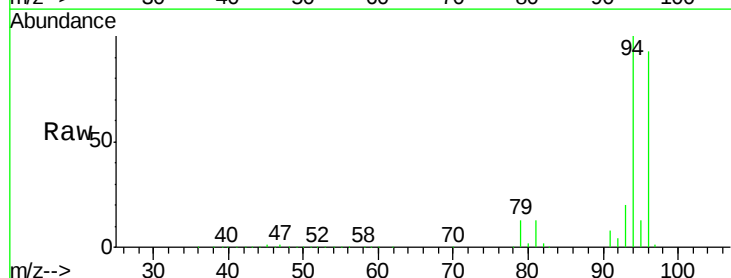
Acq: 3 Dec 2020 13:36

Tgt Ion: 94 Resp: 975623

Ion Ratio Lower Upper

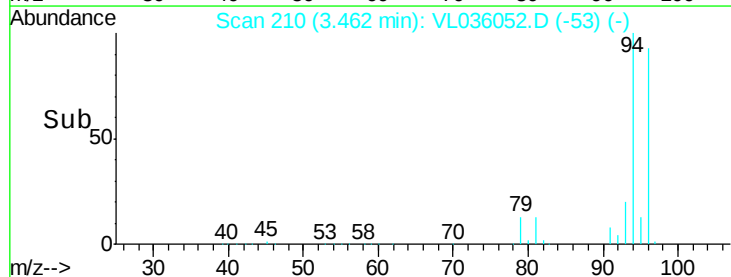
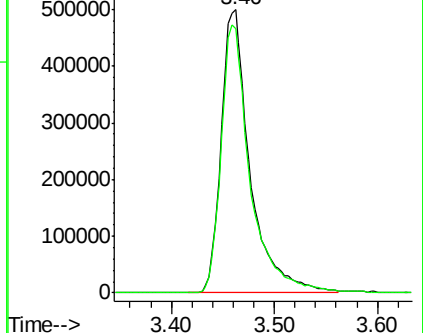
94 100

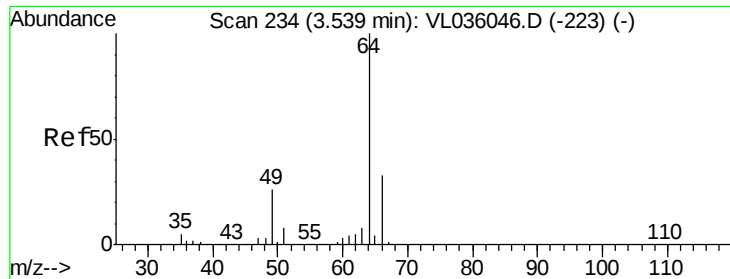
96 93.2 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 14.431 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 435674

Ion Ratio Lower Upper

64 100

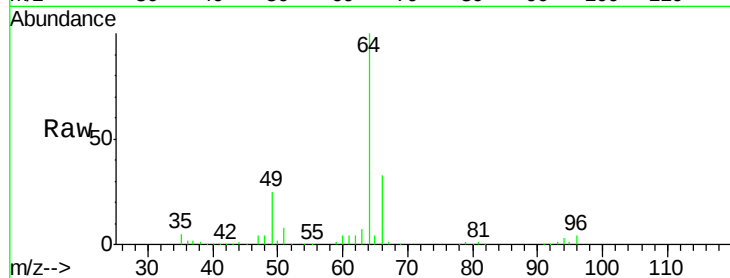
66 32.8 26.1 39.1

Manual Integrations

APPROVED

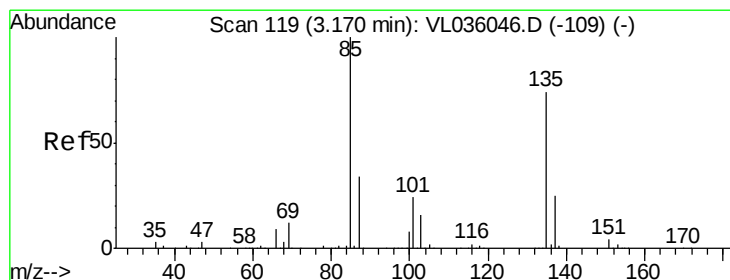
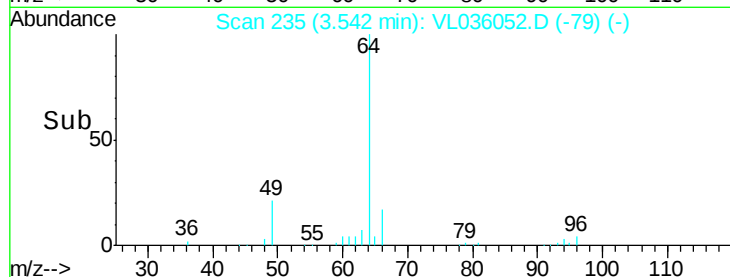
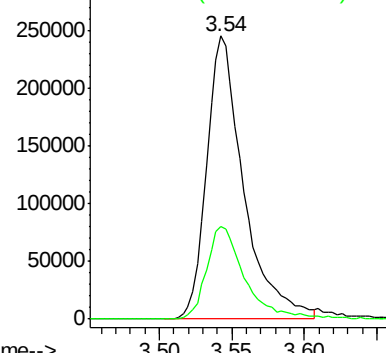
MMDadoda

12/7/2020 12:08:26 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 12.738 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036052.D

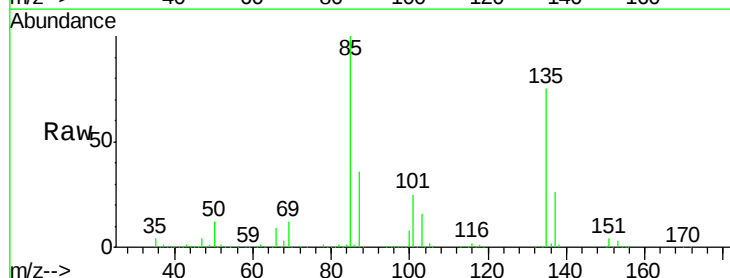
Acq: 3 Dec 2020 13:36

Tgt Ion: 85 Resp: 3174666

Ion Ratio Lower Upper

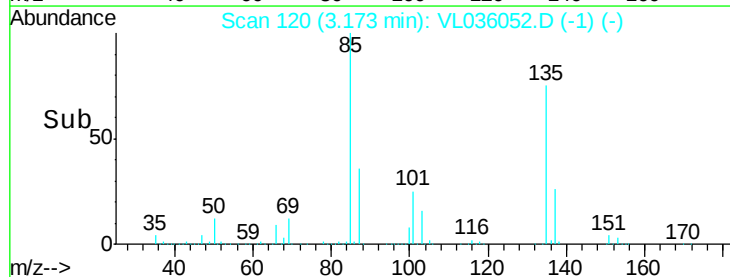
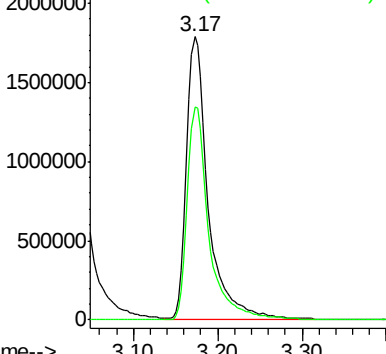
85 100

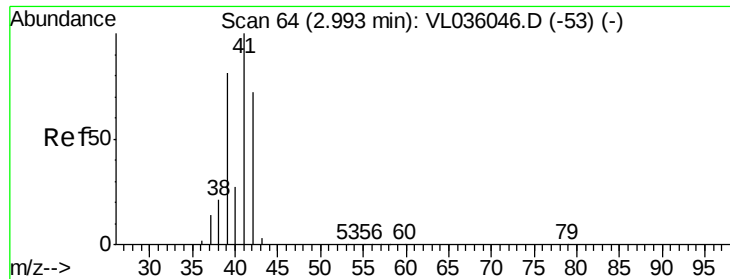
135 76.1 60.2 90.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 14.291 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 724516

Ion Ratio Lower Upper

41 100

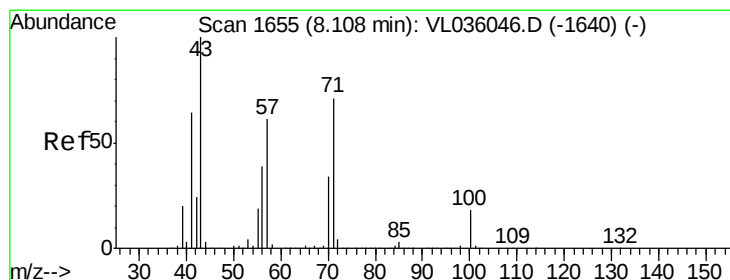
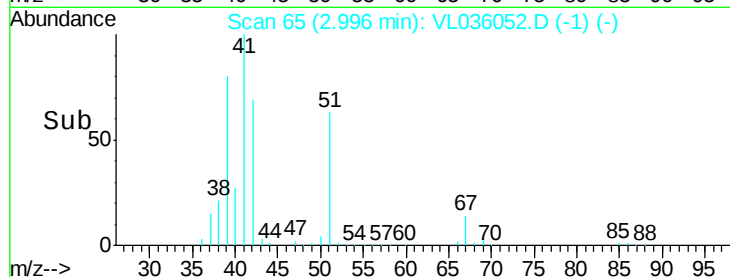
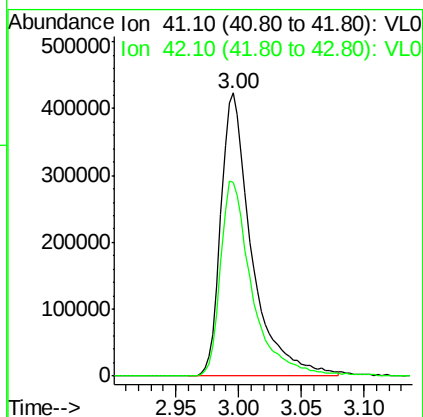
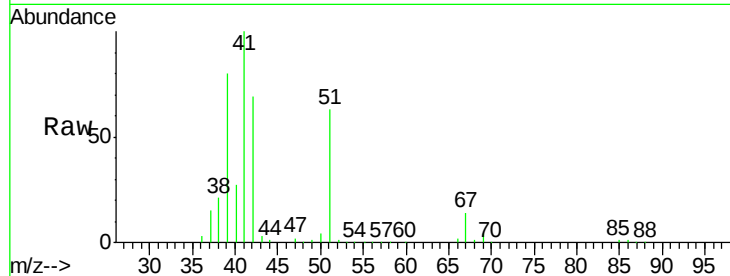
42 71.1 56.9 85.3

Manual Integrations

APPROVED

MMDadoda

12/7/2020 12:08:26 PM



#10

Heptane

Concen: 15.355 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. 0.01 min

Lab File: VL036052.D

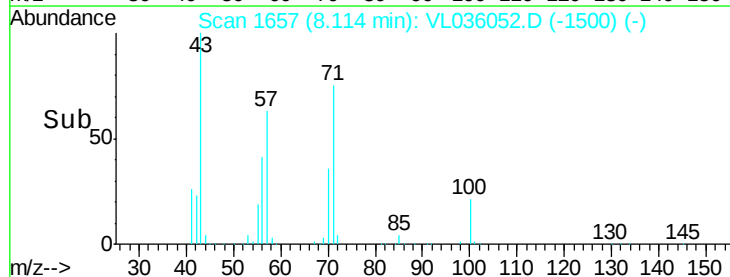
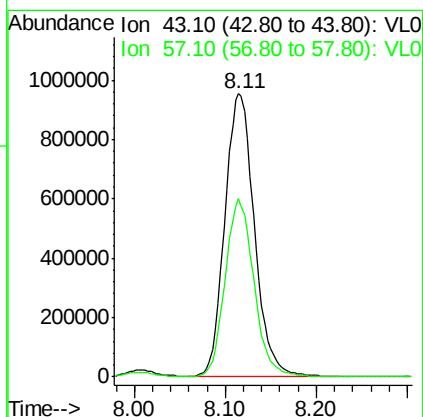
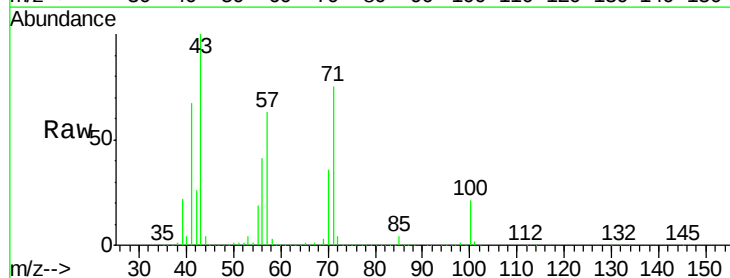
Acq: 3 Dec 2020 13:36

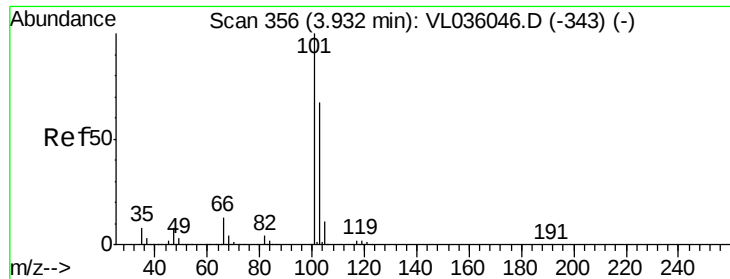
Tgt Ion: 43 Resp: 2150227

Ion Ratio Lower Upper

43 100

57 61.5 49.2 73.8





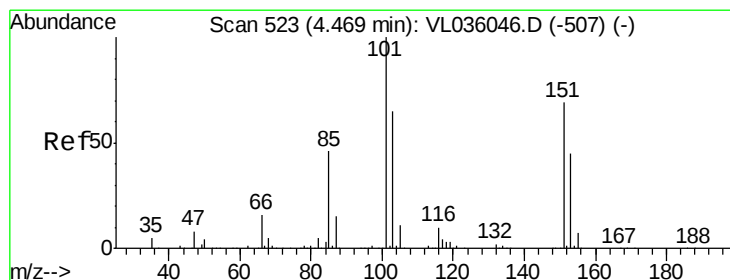
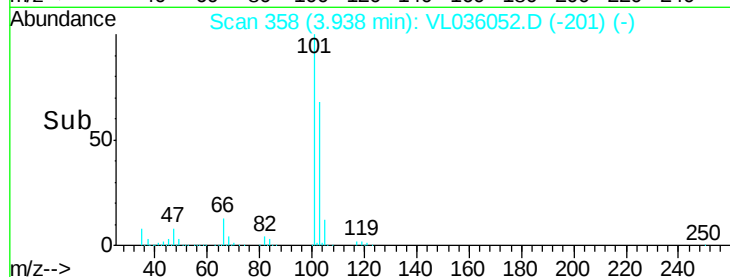
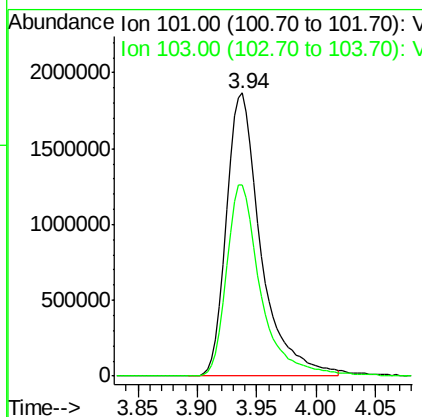
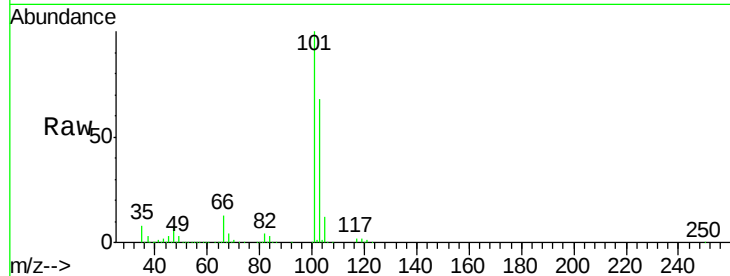
#11
 Trichlorofluoromethane
 Concen: 13.747 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3759030
 Ion Ratio Lower Upper
 101 100
 103 67.6 53.2 79.8

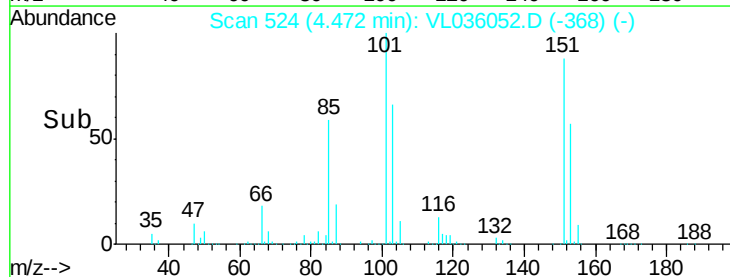
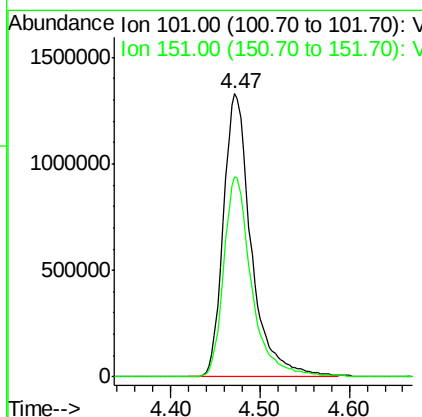
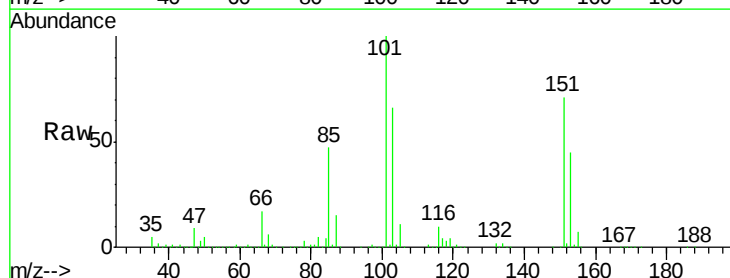
Manual Integrations
 APPROVED

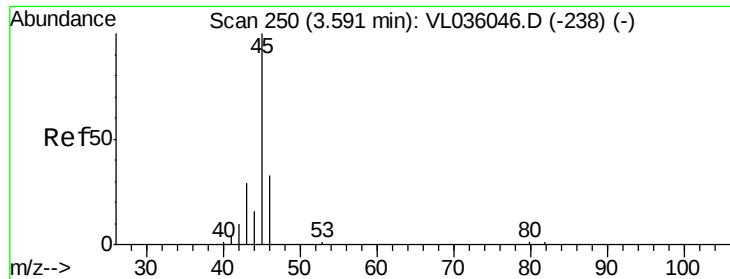
MMDadoda
 12/7/2020 12:08:26 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.170 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. 0.00 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion:101 Resp: 2884928
 Ion Ratio Lower Upper
 101 100
 151 70.8 56.1 84.1





#13

Ethanol

Concen: 8.984 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 98813

Ion Ratio Lower Upper

45 100

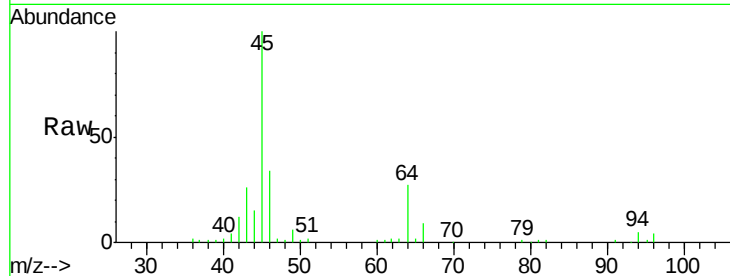
46 41.4 16.0 64.2

Manual Integrations

APPROVED

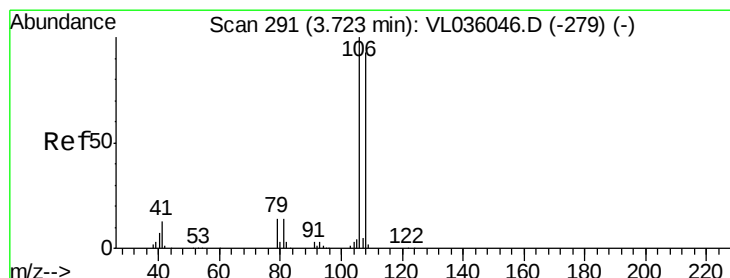
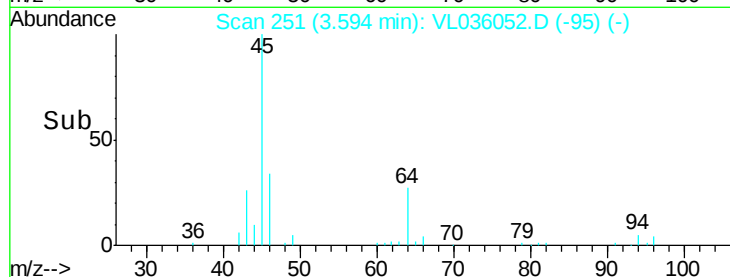
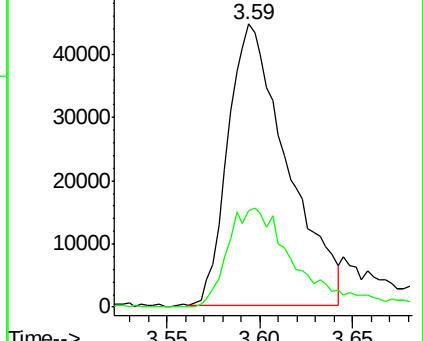
MMDadoda

12/7/2020 12:08:26 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 13.448 ppbv

RT: 3.73 min Scan# 292

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

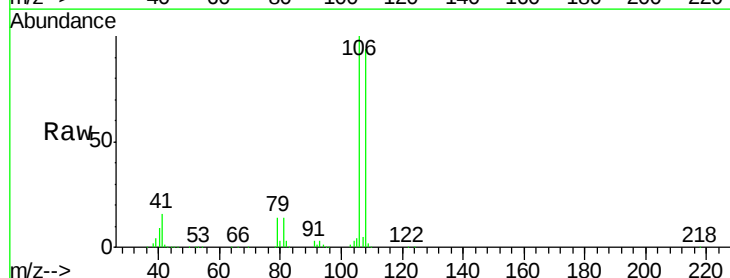
Tgt Ion:108 Resp: 1260030

Ion Ratio Lower Upper

108 100

106 105.7 85.0 127.4

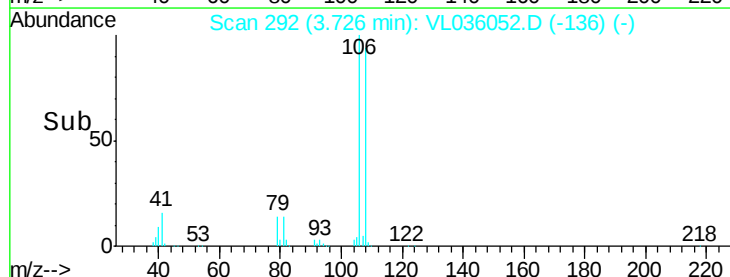
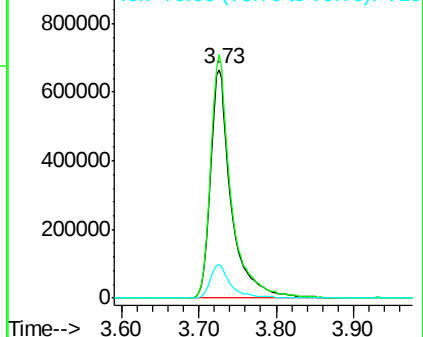
79 15.1 11.9 17.9

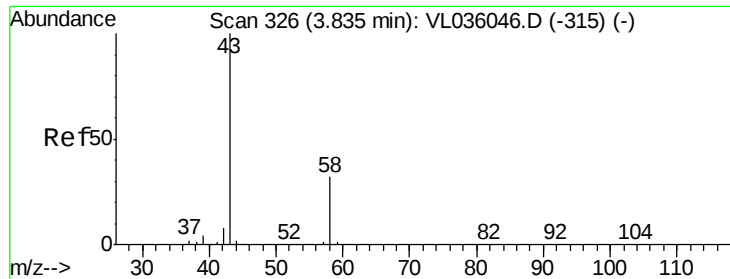


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 12.974 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1604379

Ion Ratio Lower Upper

43 100

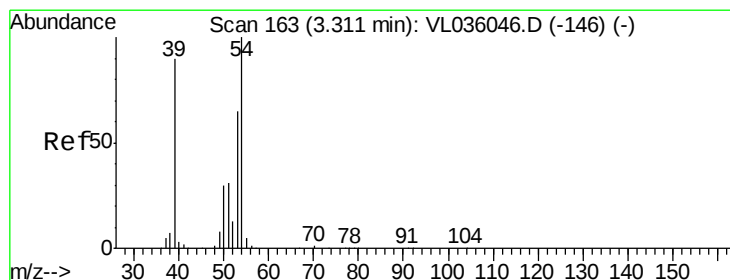
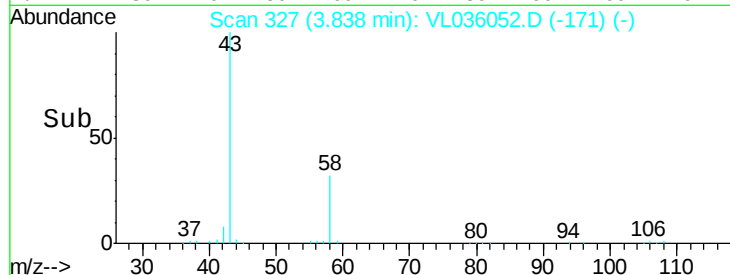
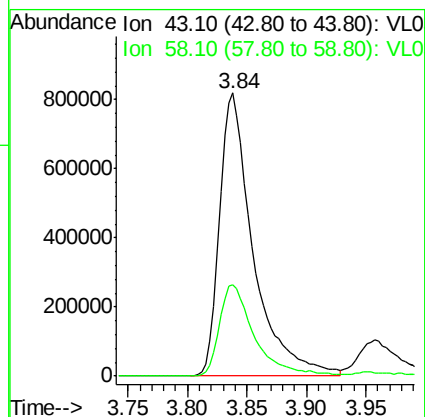
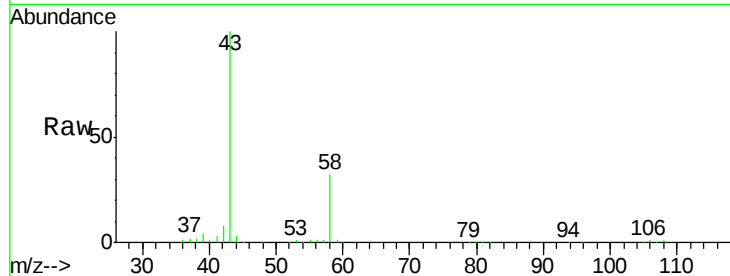
58 33.7 27.0 40.6

Manual Integrations

APPROVED

MMDadoda

12/7/2020 12:08:26 PM



#16

1,3-Butadiene

Concen: 14.504 ppbv

RT: 3.31 min Scan# 164

Delta R.T. 0.00 min

Lab File: VL036052.D

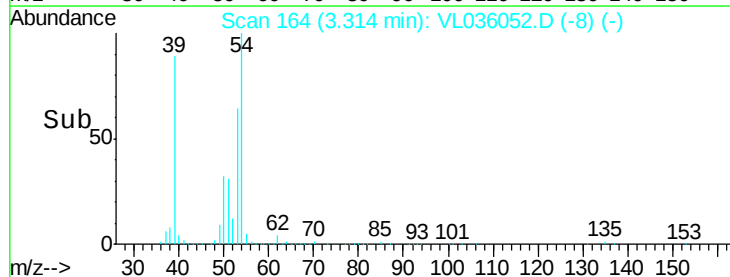
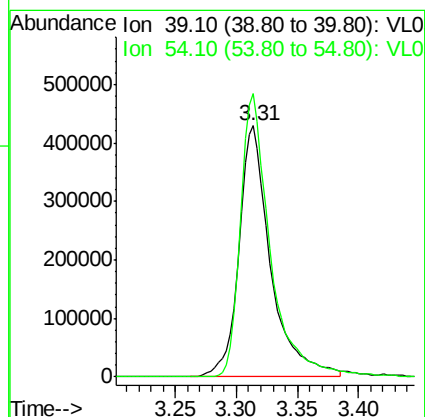
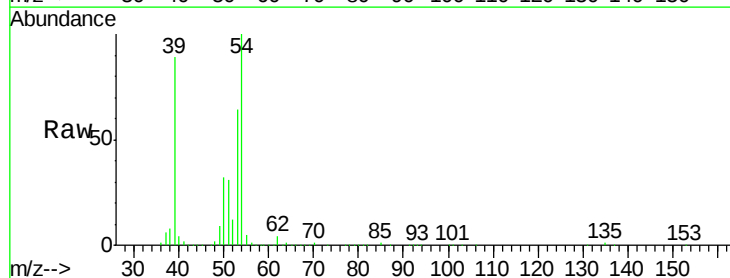
Acq: 3 Dec 2020 13:36

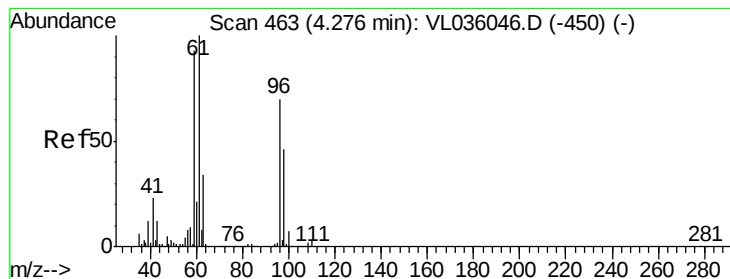
Tgt Ion: 39 Resp: 772217

Ion Ratio Lower Upper

39 100

54 107.5 86.1 129.1





#17

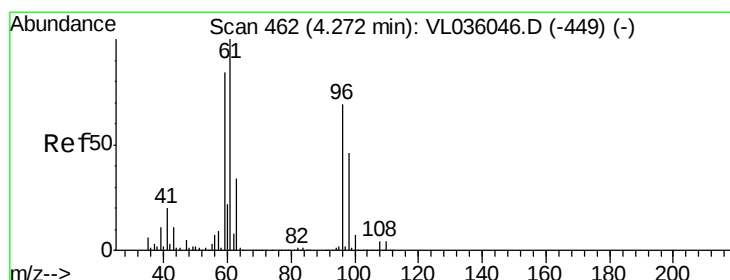
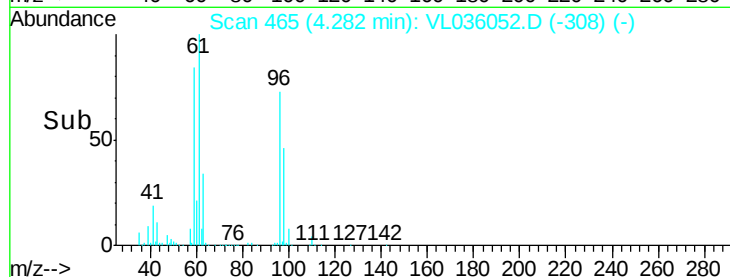
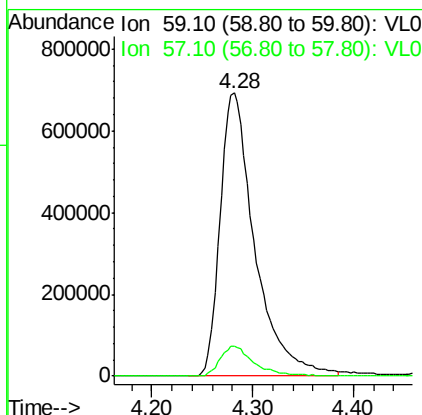
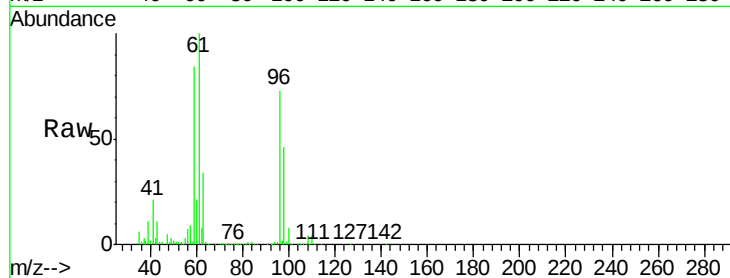
tert-Butyl alcohol
 Concen: 10.174 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 1667385
 Ion Ratio Lower Upper
 59 100
 57 10.4 8.4 12.6

Manual Integrations
 APPROVED

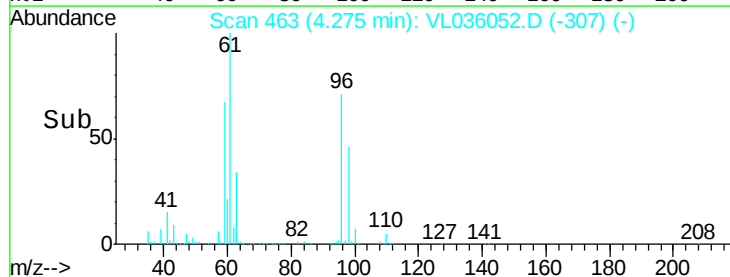
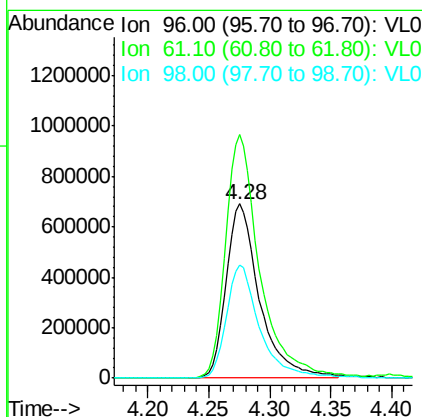
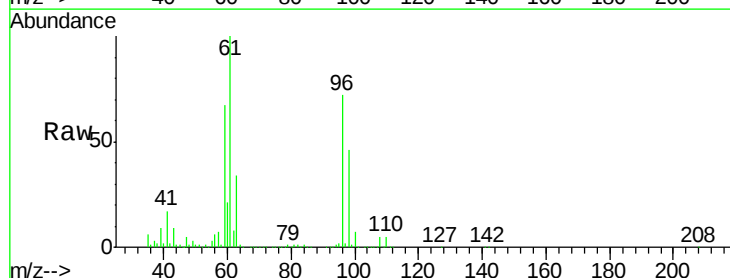
MMDadoda
 12/7/2020 12:08:26 PM

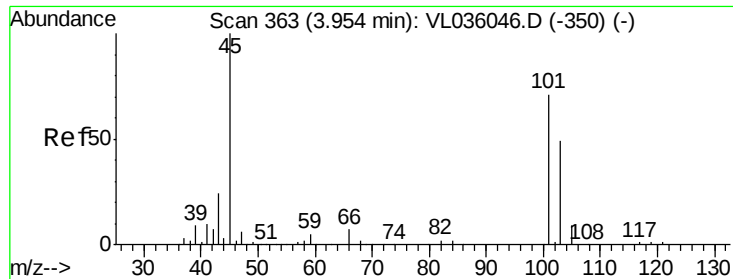


#18

1,1-Dichloroethene
 Concen: 14.258 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.00 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion: 96 Resp: 1332734
 Ion Ratio Lower Upper
 96 100
 61 139.8 115.8 173.6
 98 64.6 53.1 79.7





#19

Isopropyl Alcohol

Concen: 10.169 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 772771

Ion Ratio Lower Upper

45 100

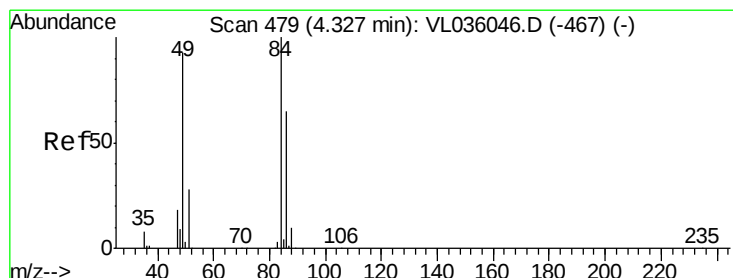
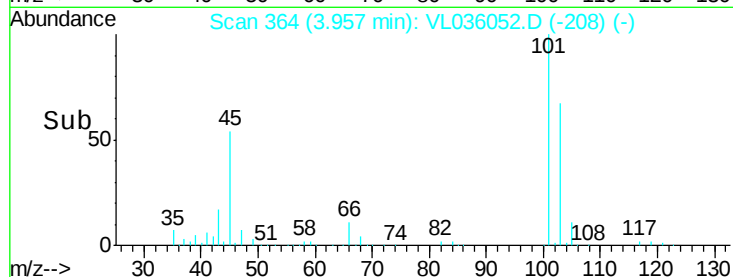
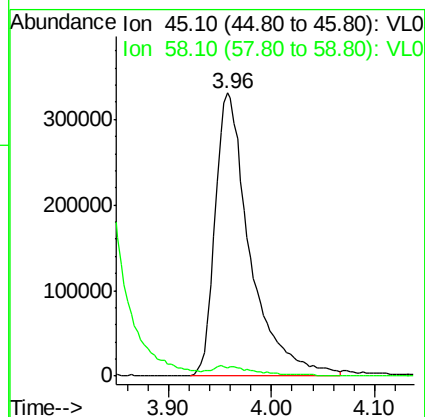
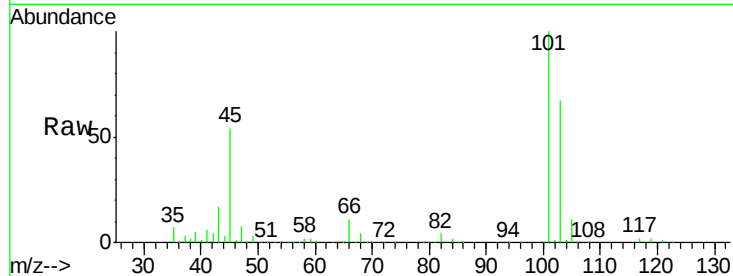
58 4.6 3.4 5.0

Manual Integrations

APPROVED

MMDadoda

12/7/2020 12:08:26 PM



#20

Methylene Chloride

Concen: 12.828 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Tgt Ion: 84 Resp: 1116694

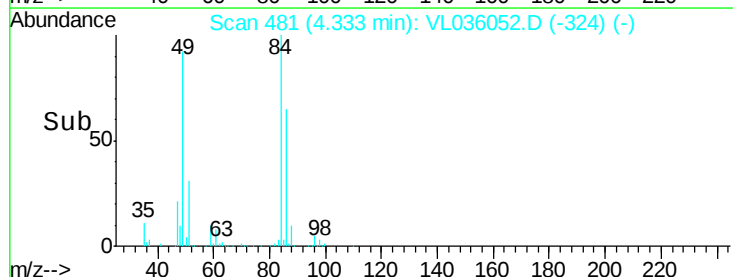
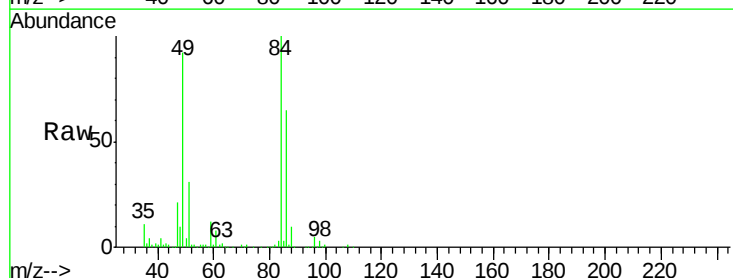
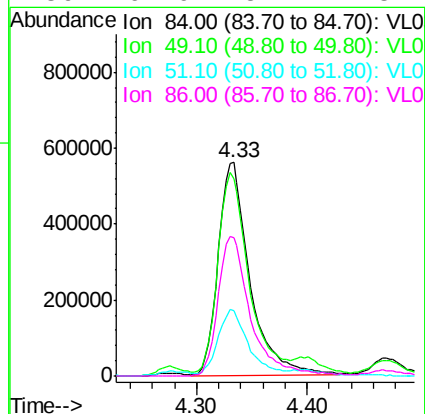
Ion Ratio Lower Upper

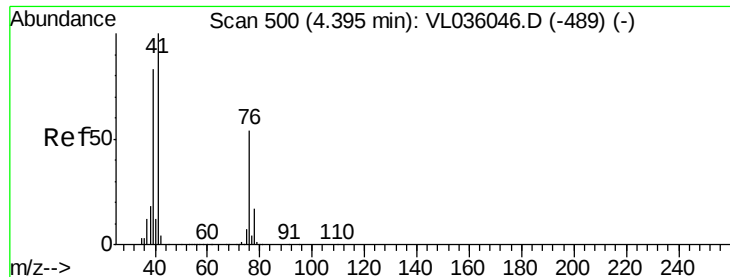
84 100

49 90.9 74.4 111.6

51 30.1 22.5 33.7

86 64.9 52.2 78.2





#21

Allvl Chloride

Concen: 14.675 ppbv

RT: 4.40 min Scan# 502

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

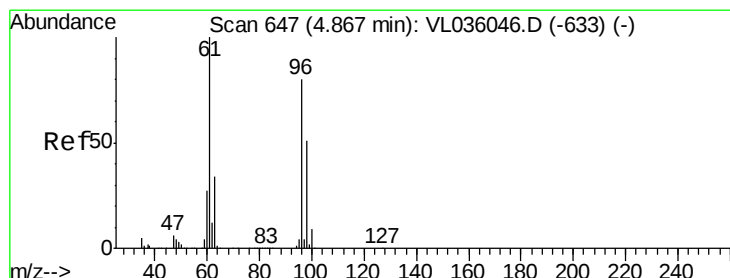
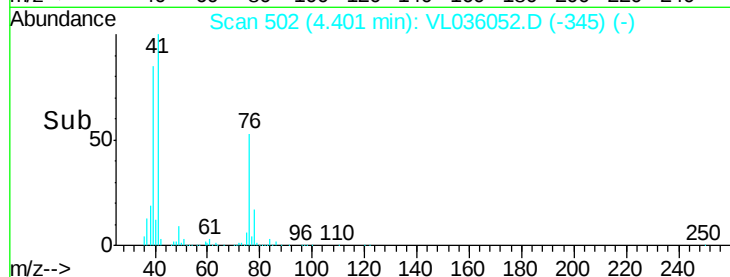
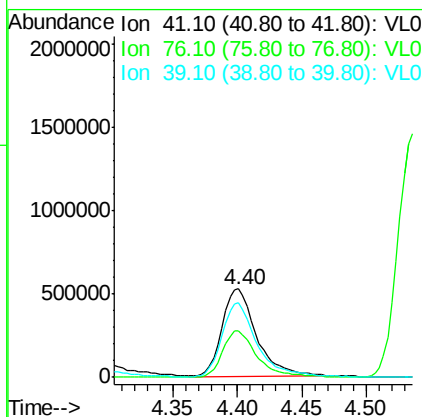
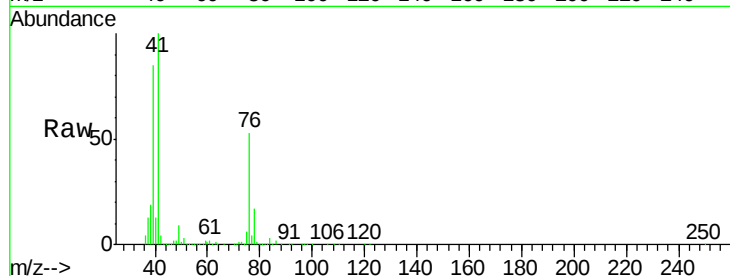
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	981389
Ion	Ratio	Lower	Upper
41	100		
76	53.8	42.4	63.6
39	88.5	69.0	103.6

Manual Integrations
APPROVED

MMDadoda
12/7/2020 12:08:26 PM



#22

trans-1,2-Dichloroethene

Concen: 14.454 ppbv

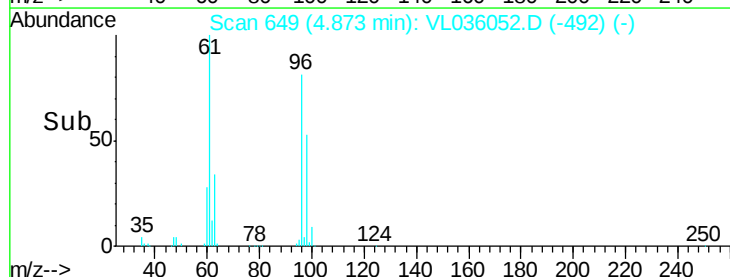
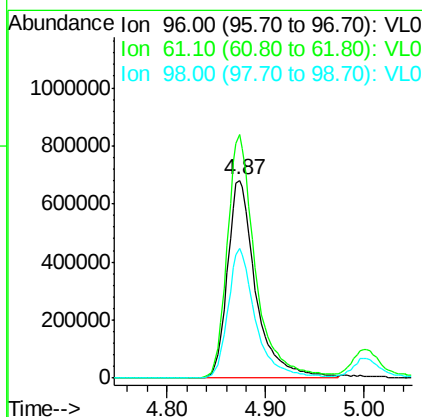
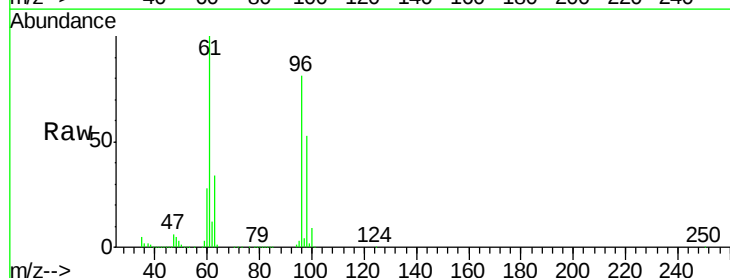
RT: 4.87 min Scan# 649

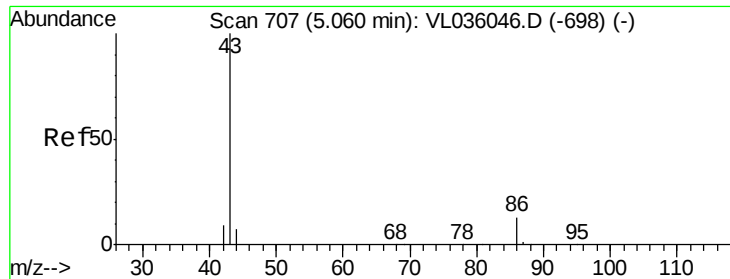
Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Tgt Ion:	96	Resp:	1369702
Ion	Ratio	Lower	Upper
96	100		
61	122.9	99.8	149.6
98	65.3	51.1	76.7





#23

Vinyl Acetate

Concen: 13.335 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2311522

Ion Ratio Lower Upper

43 100

86 11.5 9.3 13.9

42 9.9 8.1 12.1

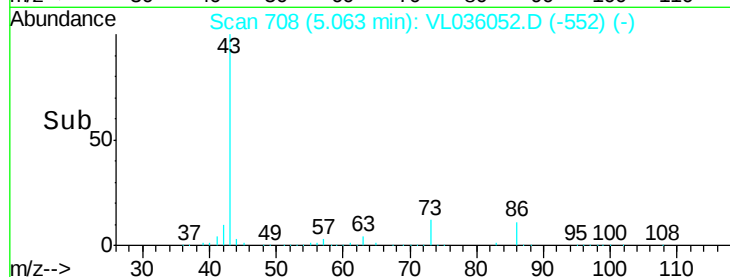
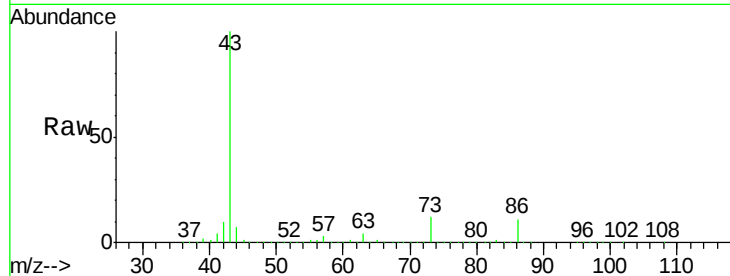
44 6.1 4.7 7.1

Manual Integrations

APPROVED

MMDadoda

12/7/2020 12:08:26 PM

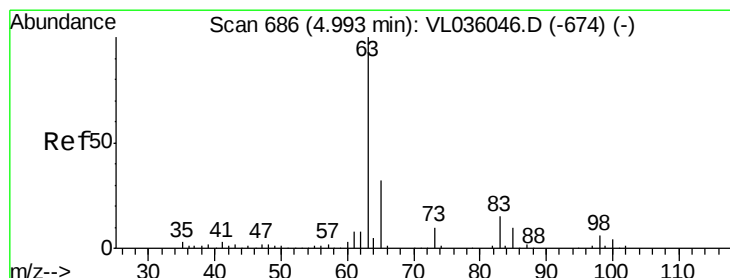
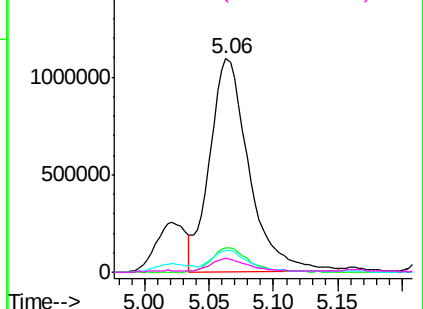


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 13.789 ppbv

RT: 5.00 min Scan# 689

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

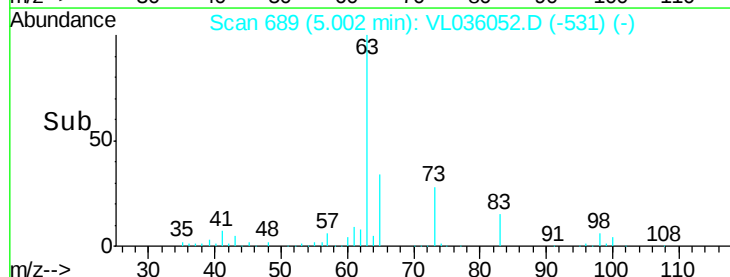
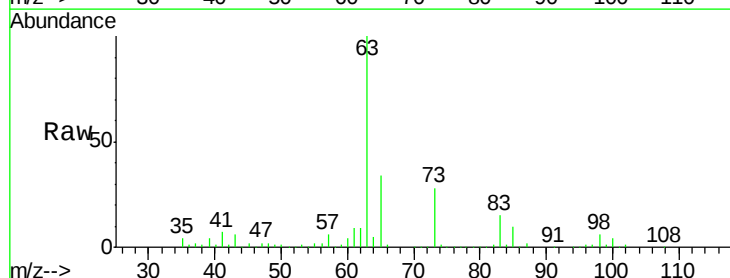
Tgt Ion: 63 Resp: 2277061

Ion Ratio Lower Upper

63 100

98 6.2 3.1 9.3

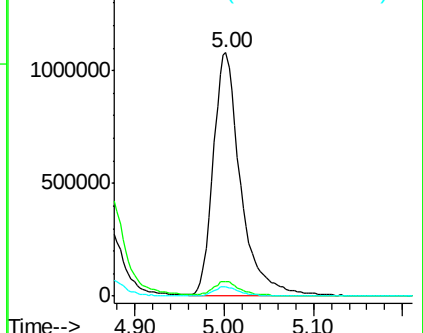
100 3.8 1.9 5.7

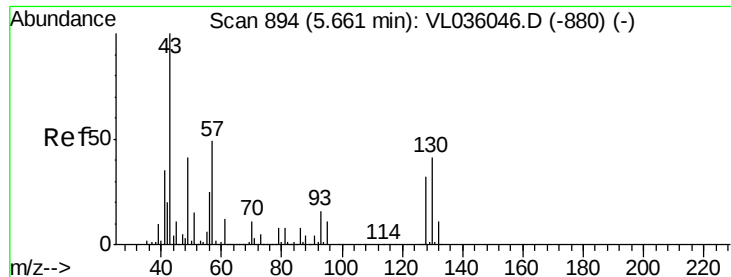


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 14.423 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

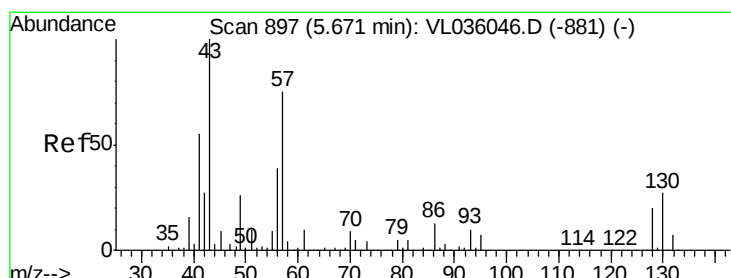
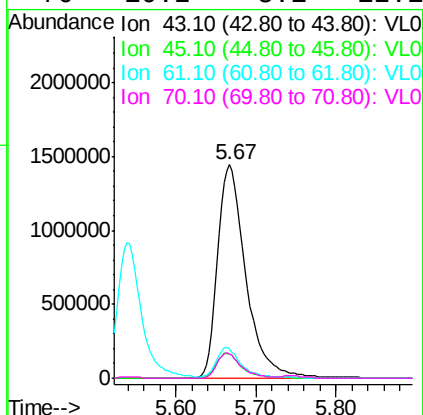
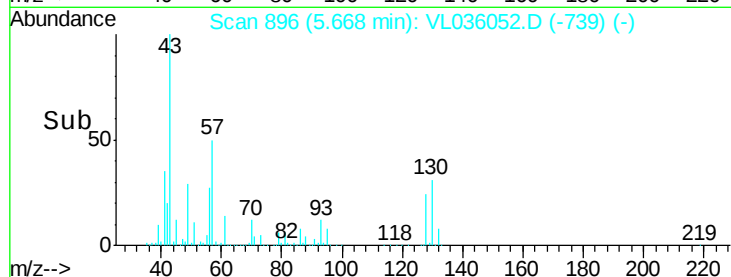
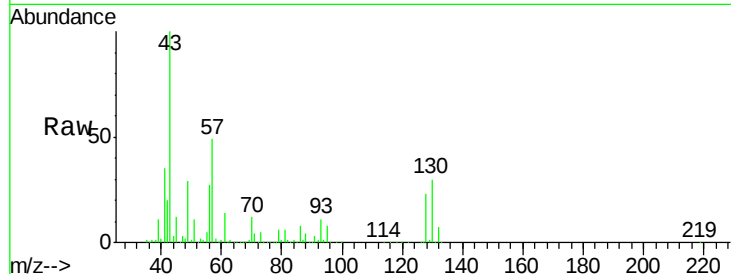
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3513475

Ion	Ratio	Lower	Upper
43	100		
45	10.8	8.6	13.0
61	13.0	10.6	16.0
70	10.2	8.1	12.1

Manual Integrations
APPROVED

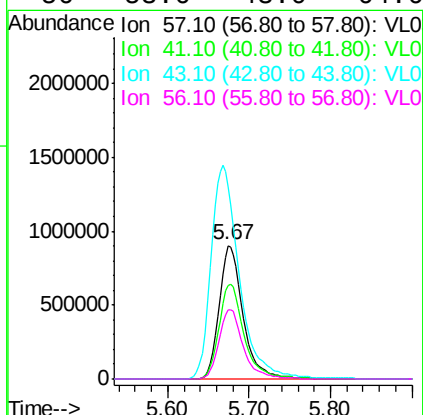
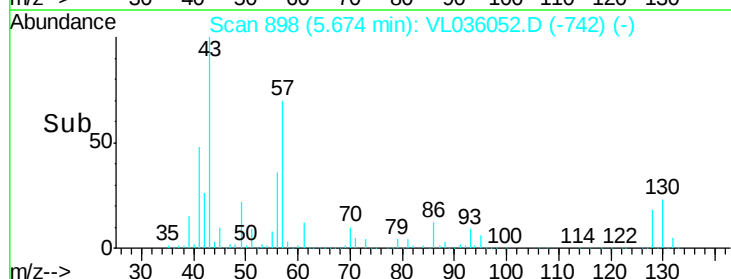
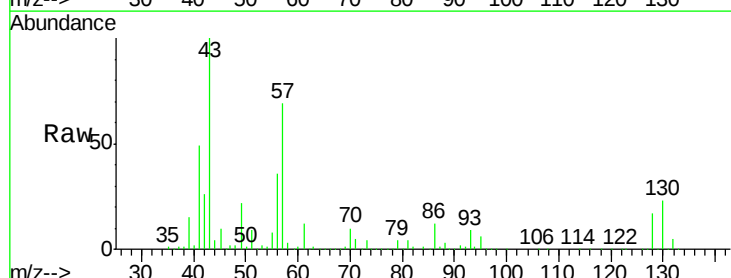
MMDadoda
12/7/2020 12:08:26 PM

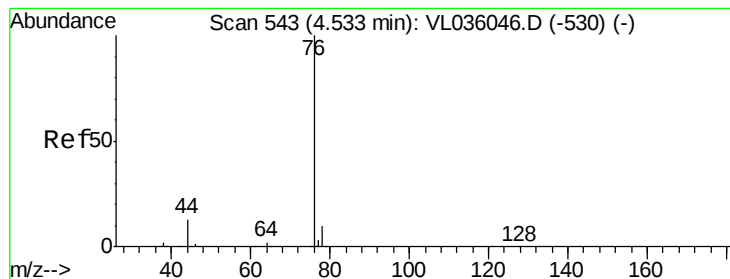


#26
Hexane
Concen: 13.911 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion: 57 Resp: 1868877

Ion	Ratio	Lower	Upper
57	100		
41	75.7	61.6	92.4
43	189.0	152.9	229.3
56	53.6	43.0	64.6





#27

Carbon Disulfide

Concen: 14.926 ppbv

RT: 4.54 min Scan# 544

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 3004792

Ion Ratio Lower Upper

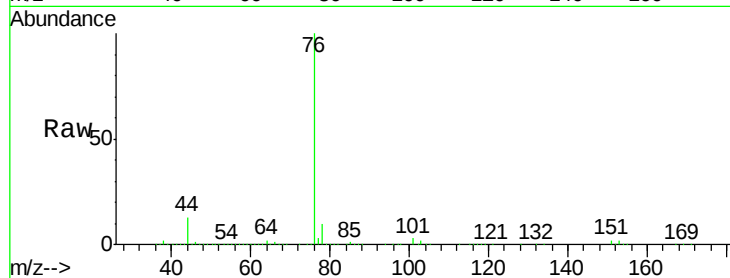
76 100

44 12.4 9.6 14.4

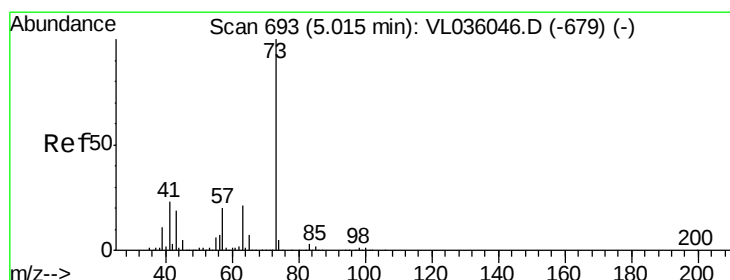
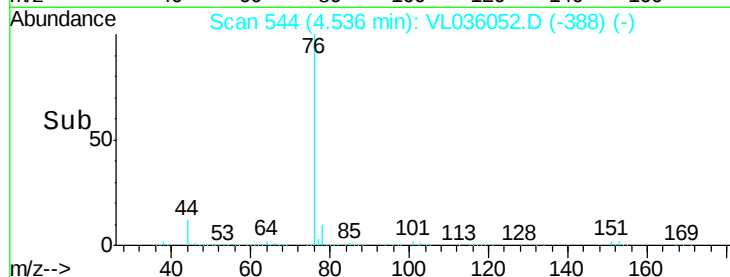
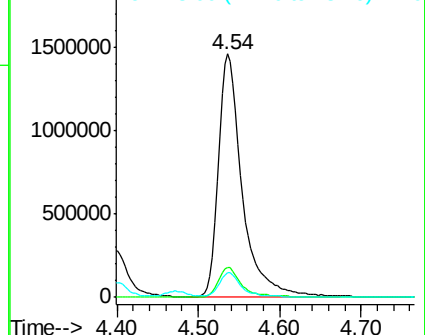
78 10.1 7.7 11.5

Manual Integrations
APPROVED

MMDadoda
12/7/2020 12:08:26 PM



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



#28

Methyl tert-Butyl Ether

Concen: 12.111 ppbv

RT: 5.02 min Scan# 695

Delta R.T. 0.01 min

Lab File: VL036052.D

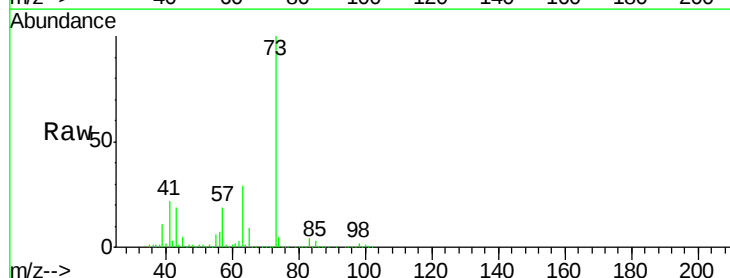
Acq: 3 Dec 2020 13:36

Tgt Ion: 73 Resp: 2921916

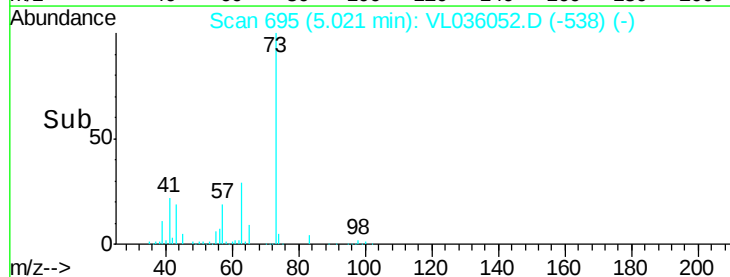
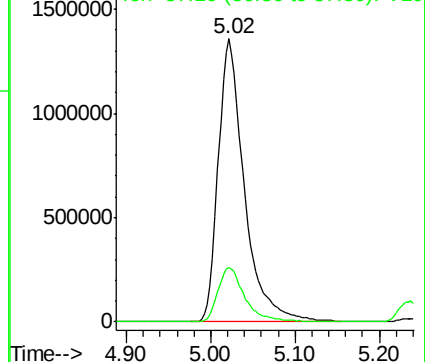
Ion Ratio Lower Upper

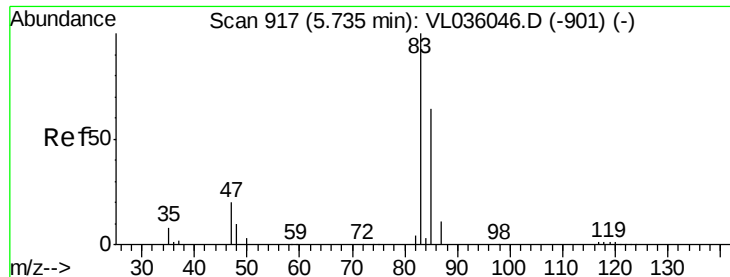
73 100

57 19.8 15.8 23.8



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





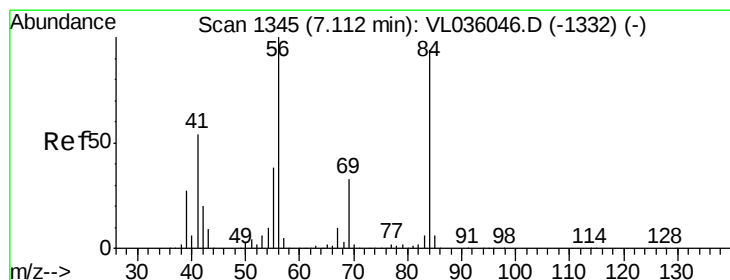
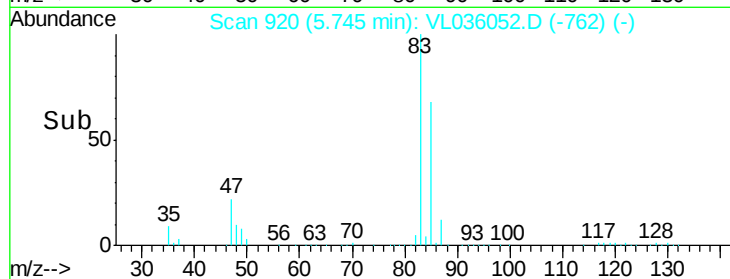
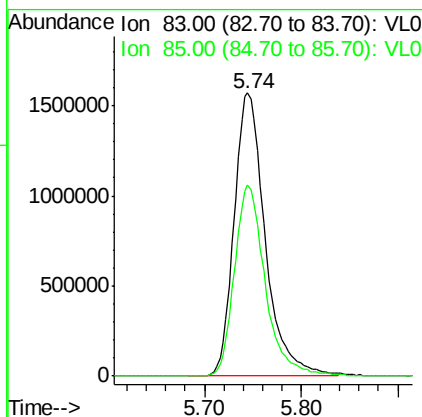
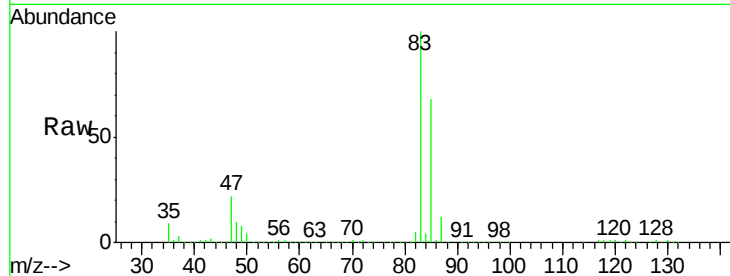
#29
Chloroform
Concen: 13.313 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3515497
Ion Ratio Lower Upper
83 100
85 67.2 51.6 77.4

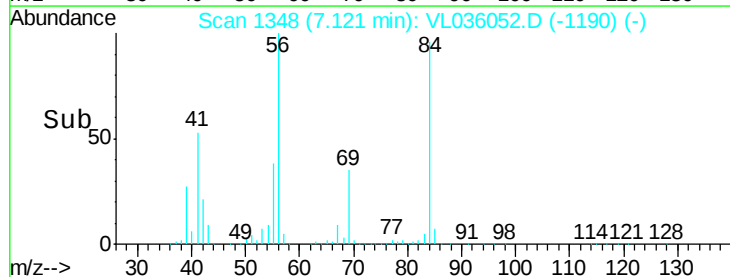
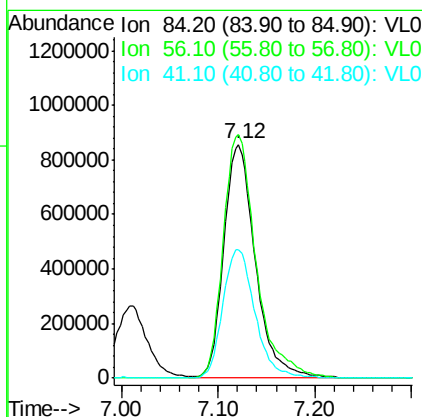
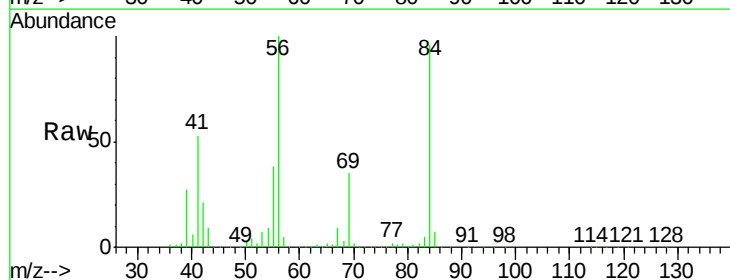
Manual Integrations
APPROVED

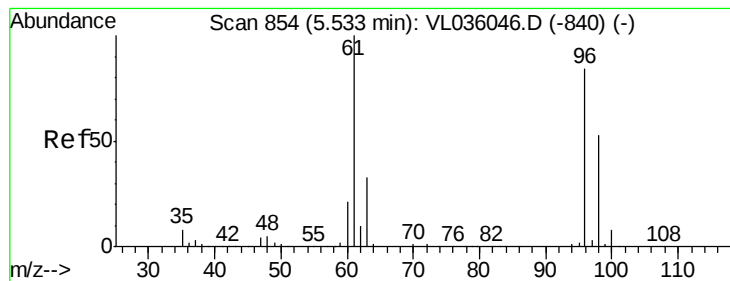
MMDadoda
12/7/2020 12:08:26 PM



#30
Cyclohexane
Concen: 13.237 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion: 84 Resp: 1936954
Ion Ratio Lower Upper
84 100
56 109.3 89.9 134.9
41 56.6 46.1 69.1





#31

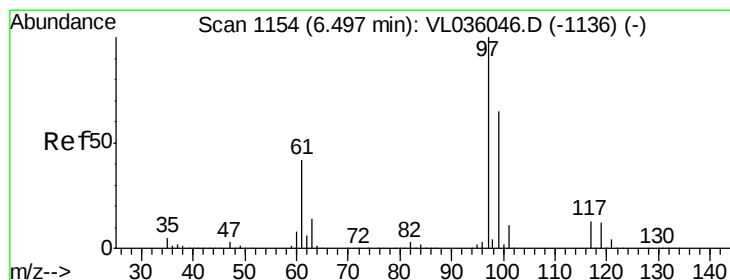
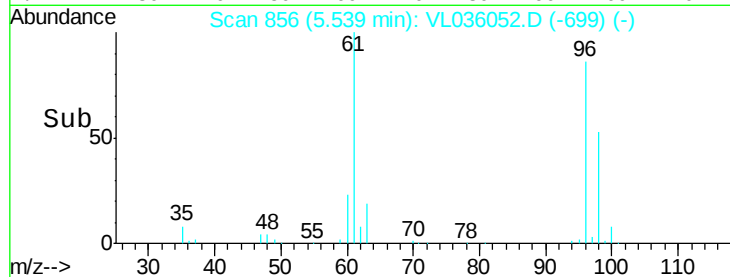
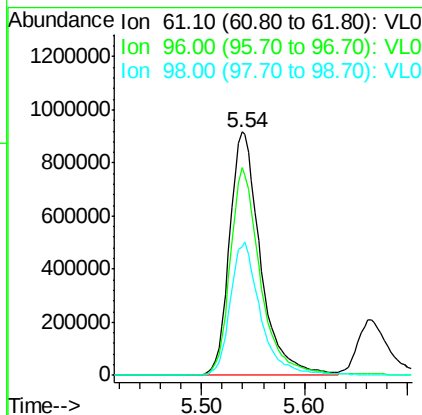
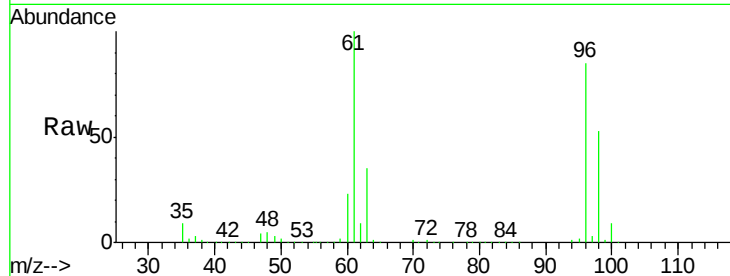
cis-1,2-Dichloroethene
 Concen: 13.879 ppbv
 RT: 5.54 min Scan# 856
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 61 Resp: 1918155
 Ion Ratio Lower Upper
 61 100
 96 85.2 66.8 100.2
 98 52.8 42.6 63.8

Manual Integrations
 APPROVED

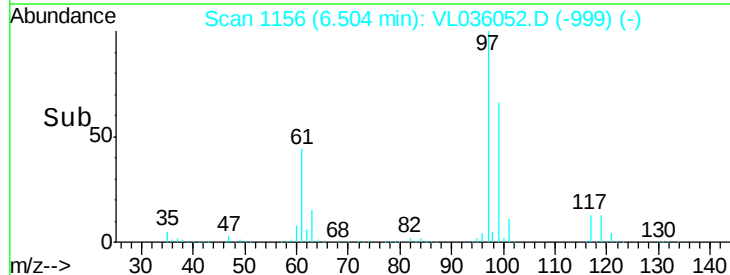
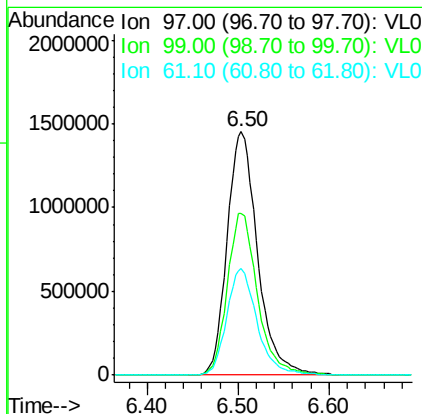
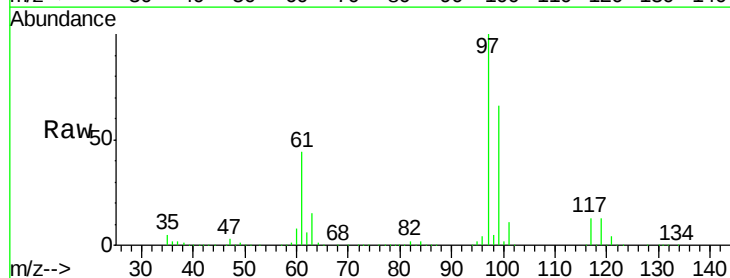
MMDadoda
 12/7/2020 12:08:26 PM

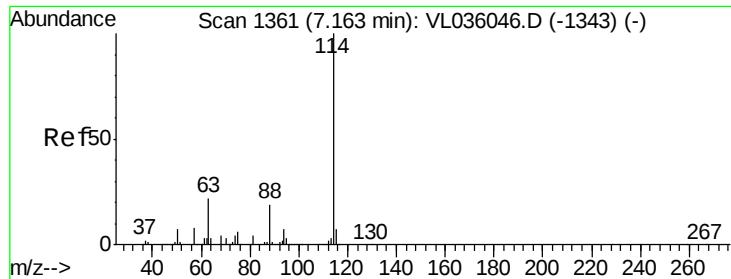


#32

1,1,1-Trichloroethane
 Concen: 12.264 ppbv
 RT: 6.50 min Scan# 1156
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion: 97 Resp: 3379493
 Ion Ratio Lower Upper
 97 100
 99 65.9 52.4 78.6
 61 43.6 34.7 52.1





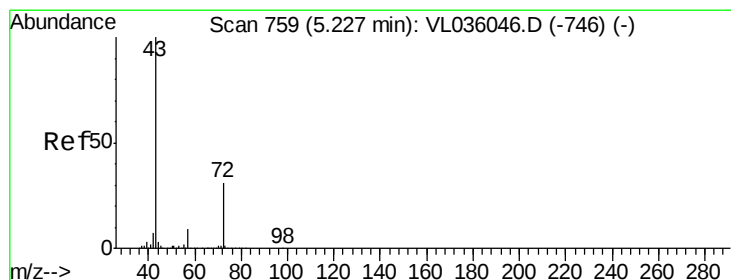
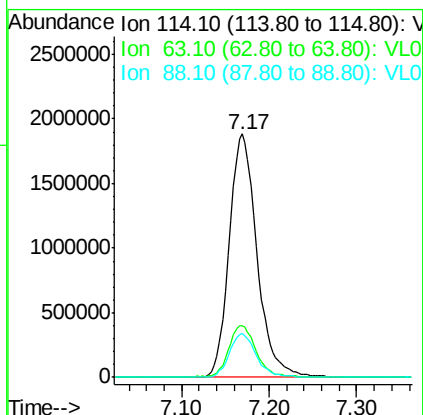
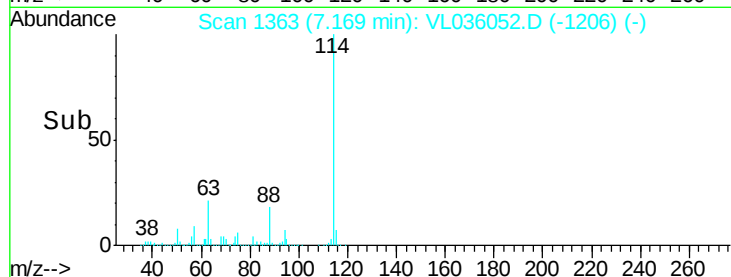
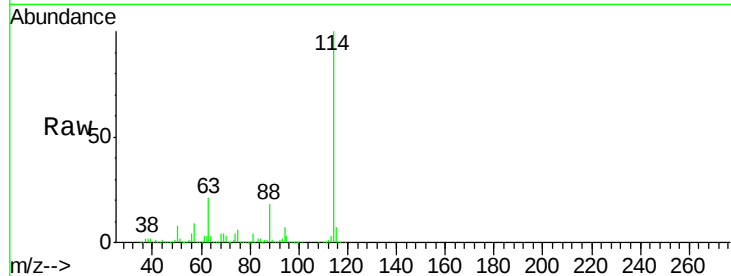
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.5	17.2	25.8
88	17.5	14.0	21.0

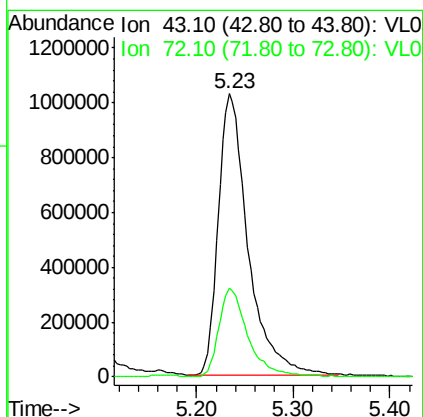
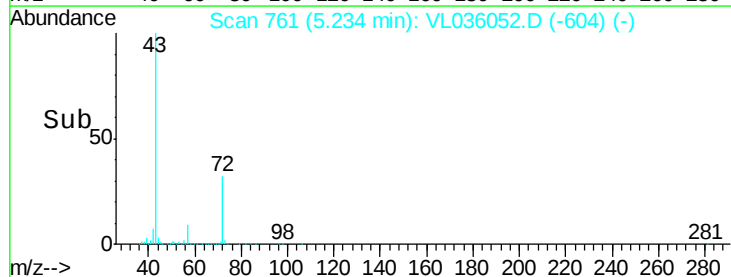
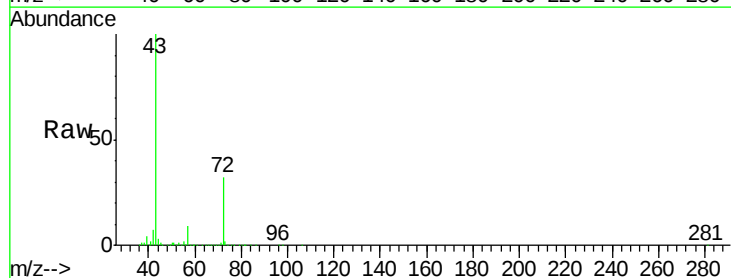
Manual Integrations
 APPROVED

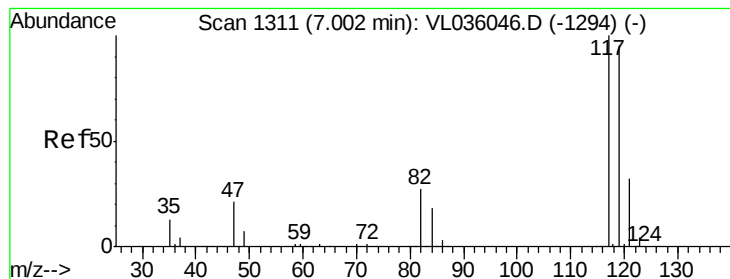
MMDadoda
 12/7/2020 12:08:26 PM



#34
 2-Butanone
 Concen: 16.289 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.4	24.5	36.7





#35

Carbon Tetrachloride

Concen: 15.304 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3400835

Ion Ratio Lower Upper

117 100

119 96.4 75.9 113.9

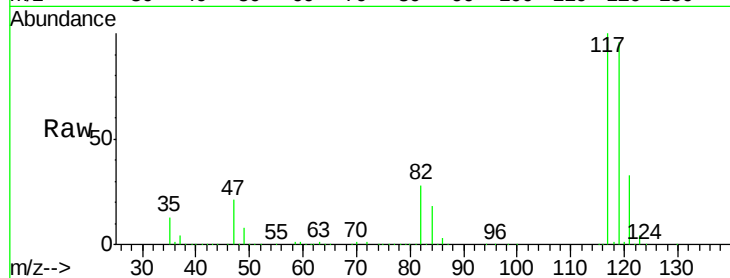
121 33.4 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

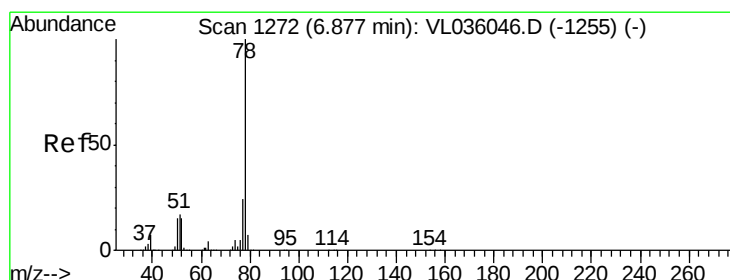
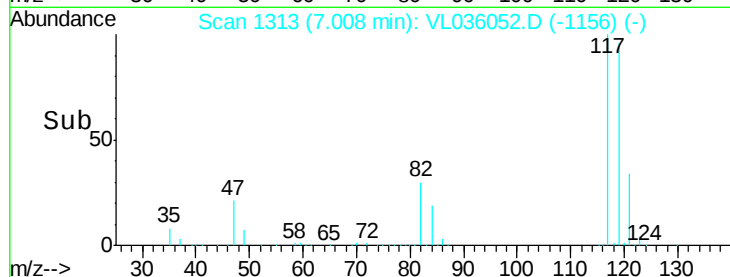
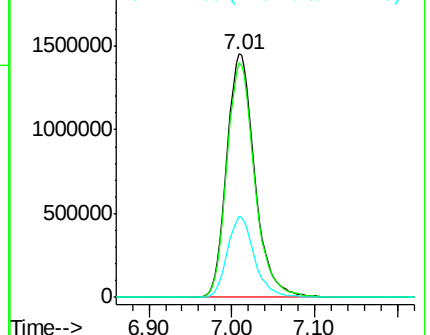
12/7/2020 12:08:26 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.315 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

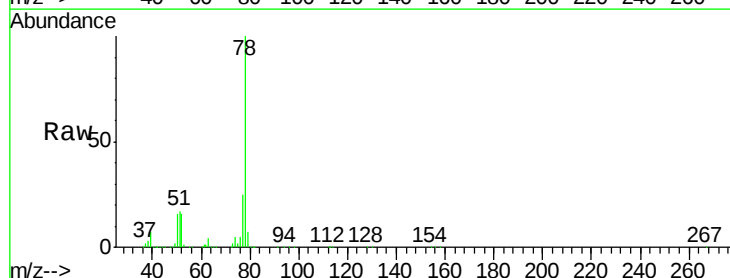
Tgt Ion: 78 Resp: 4426271

Ion Ratio Lower Upper

78 100

77 24.6 19.1 28.7

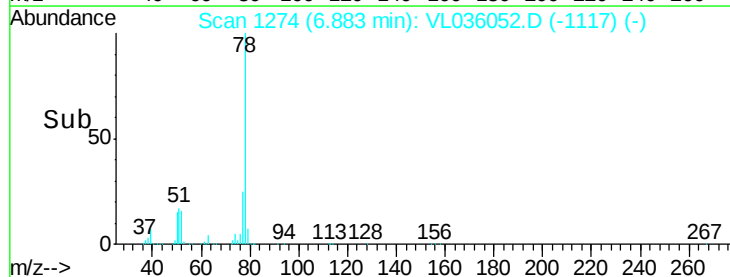
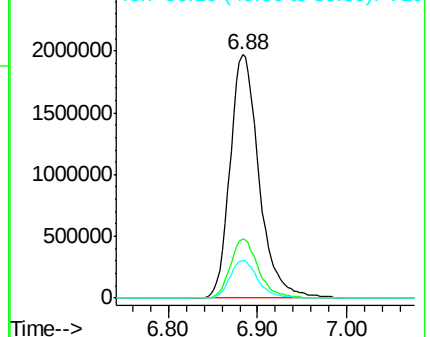
50 15.5 12.0 18.0

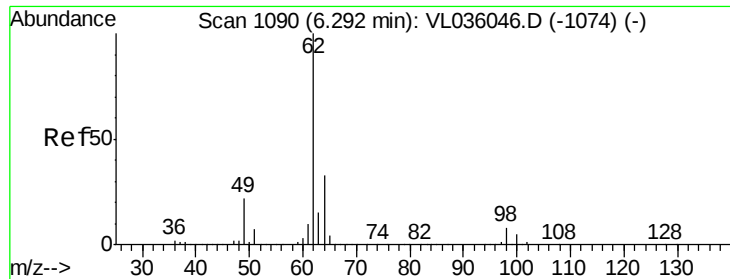


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





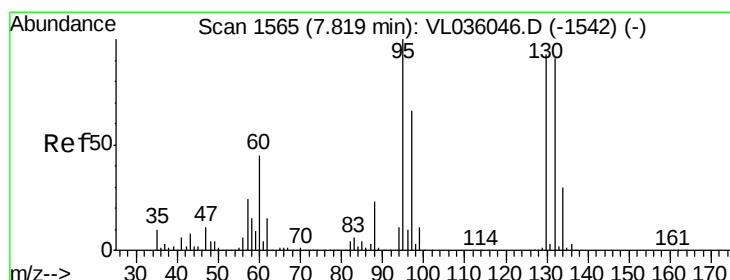
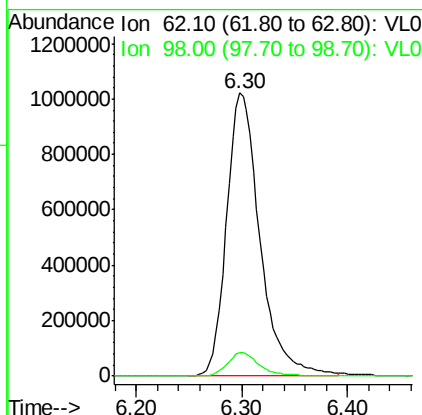
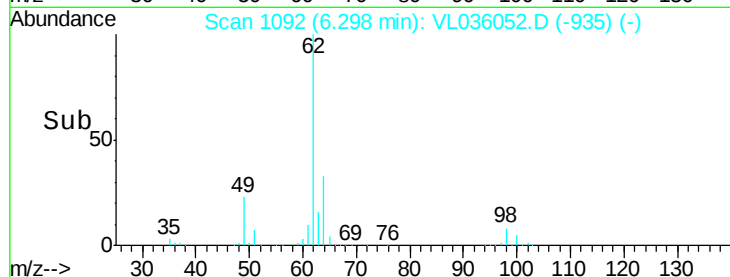
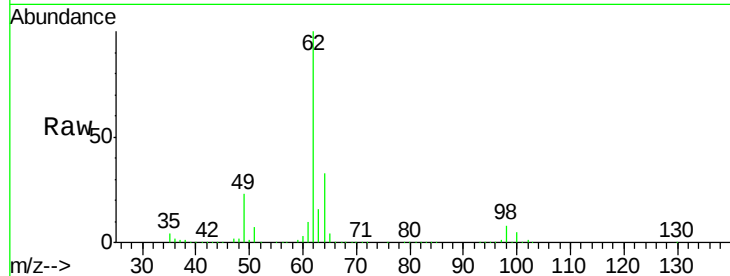
#37
 1,2-Dichloroethane
 Concen: 15.964 ppbv
 RT: 6.30 min Scan# 1092
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2236210
 Ion Ratio Lower Upper
 62 100
 98 8.2 6.4 9.6

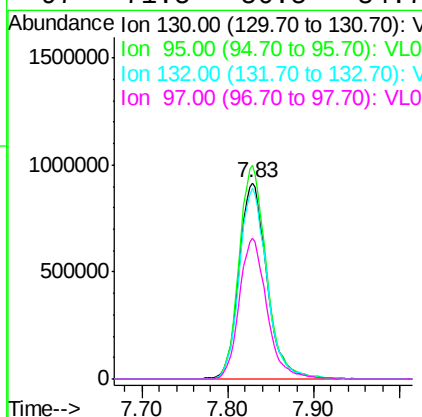
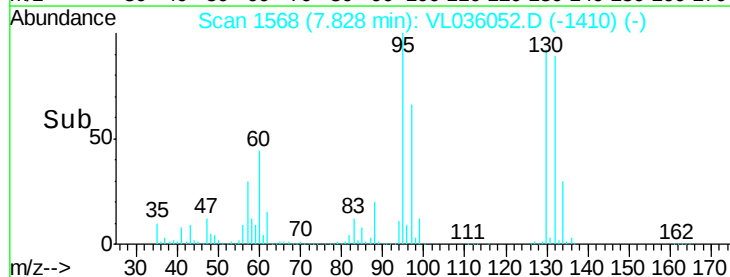
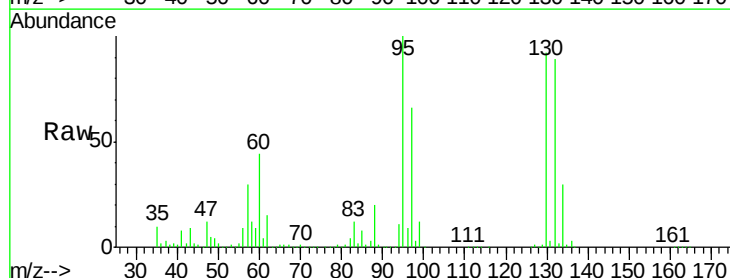
Manual Integrations
 APPROVED

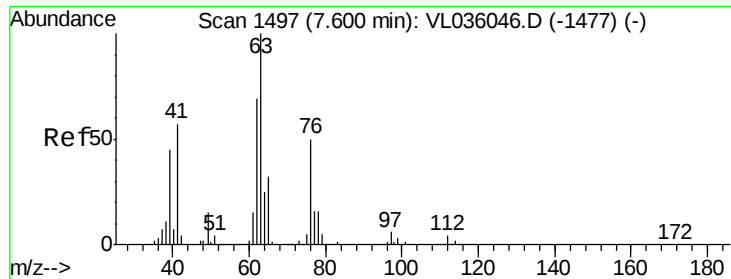
MMDadoda
 12/7/2020 12:08:26 PM



#38
 Trichloroethene
 Concen: 13.647 ppbv
 RT: 7.83 min Scan# 1568
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion:130 Resp: 2061051
 Ion Ratio Lower Upper
 130 100
 95 108.9 86.1 129.1
 132 97.1 78.6 118.0
 97 71.5 56.5 84.7





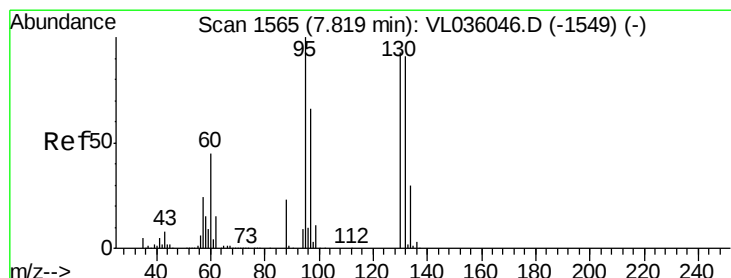
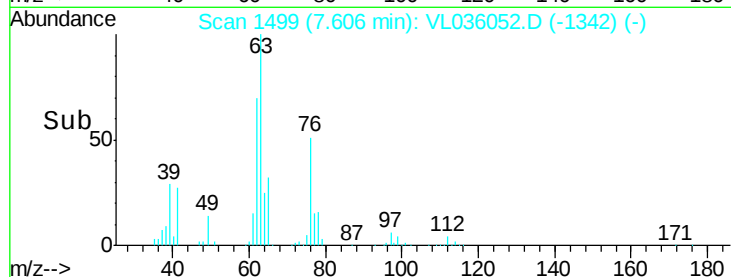
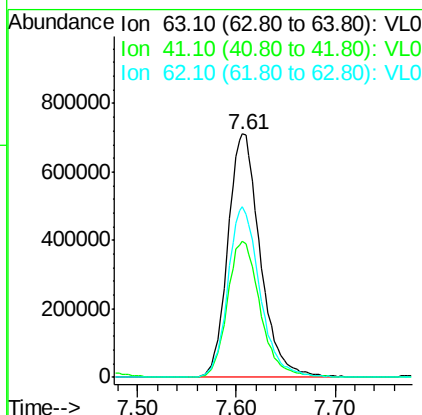
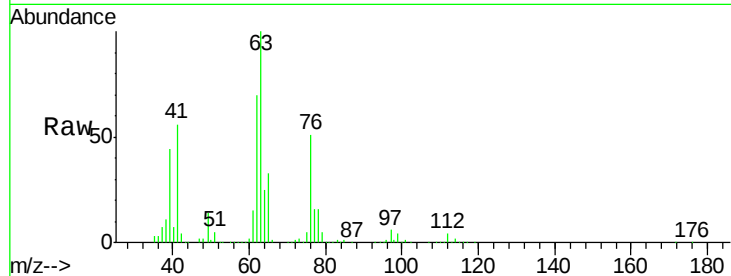
#39
 1,2-Dichloropropane
 Concen: 15.512 ppbv
 RT: 7.61 min Scan# 1499
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 63 Resp: 1614724
 Ion Ratio Lower Upper
 63 100
 41 56.0 45.4 68.0
 62 70.1 55.3 82.9

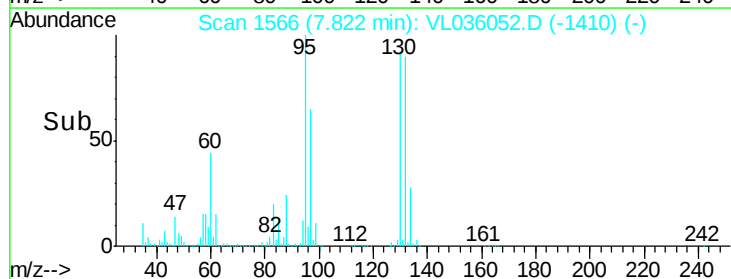
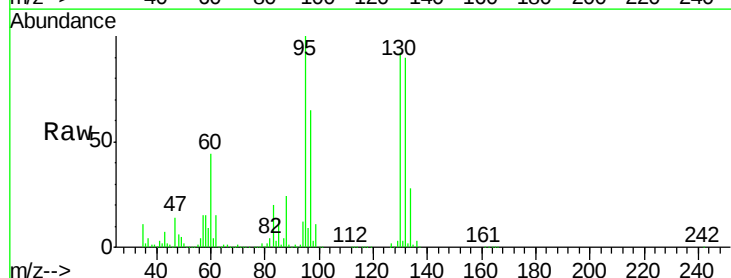
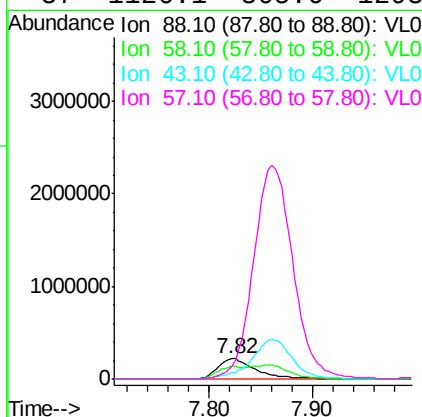
Manual Integrations
 APPROVED

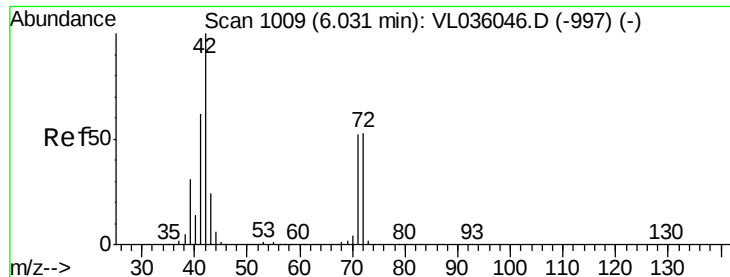
MMDadoda
 12/7/2020 12:08:26 PM



#40
 1,4-Dioxane
 Concen: 11.083 ppbv
 RT: 7.82 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion: 88 Resp: 546788
 Ion Ratio Lower Upper
 88 100
 58 116.7 91.0 136.6
 43 215.2 163.3 244.9
 57 1126.1 865.6 1298.4





#41

Tetrahydrofuran

Concen: 16.705 ppbv

RT: 6.04 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1281050

Ion Ratio Lower Upper

42 100

72 54.1 42.7 64.1

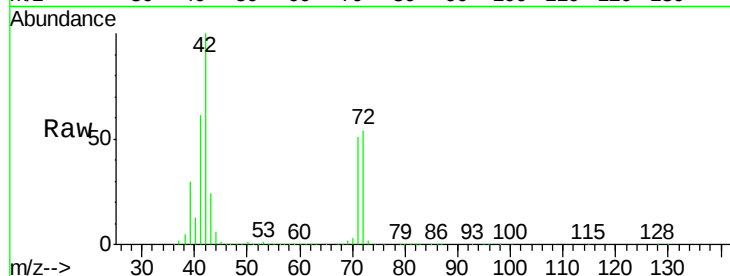
71 52.0 41.0 61.4

Manual Integrations

APPROVED

MMDadoda

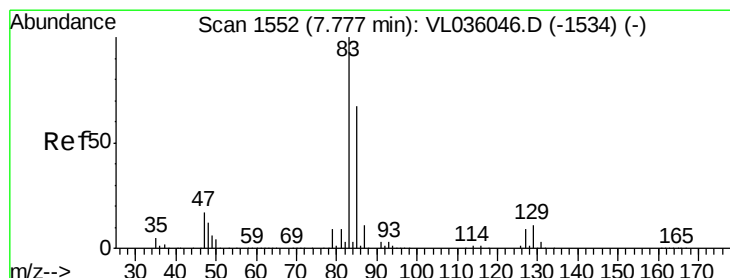
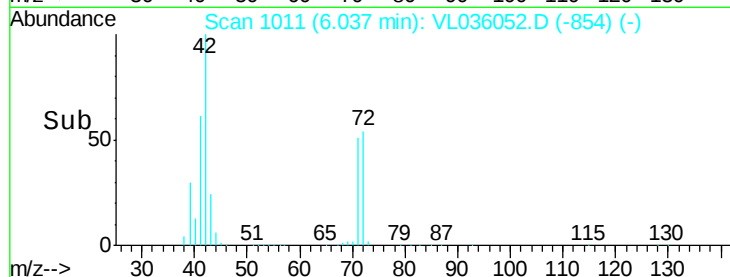
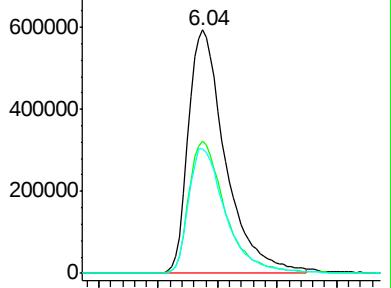
12/7/2020 12:08:26 PM



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 15.936 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

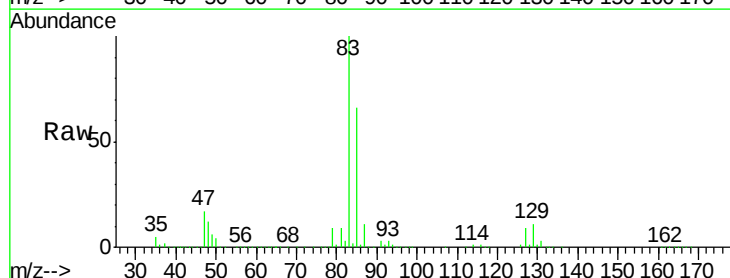
Tgt Ion: 83 Resp: 3766497

Ion Ratio Lower Upper

83 100

85 65.8 53.7 80.5

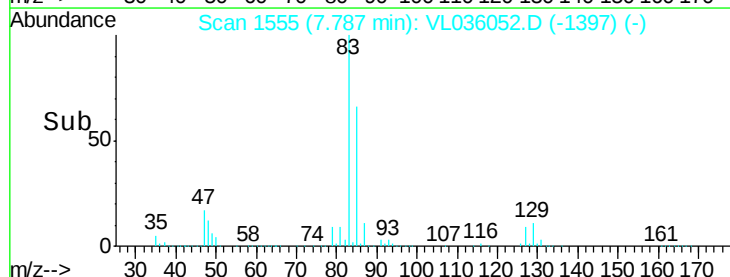
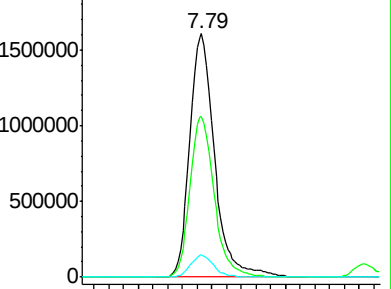
127 9.0 7.0 10.6

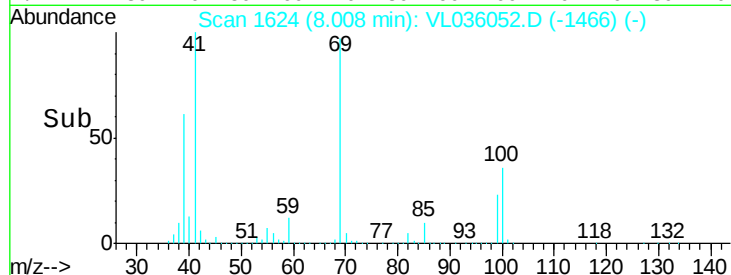
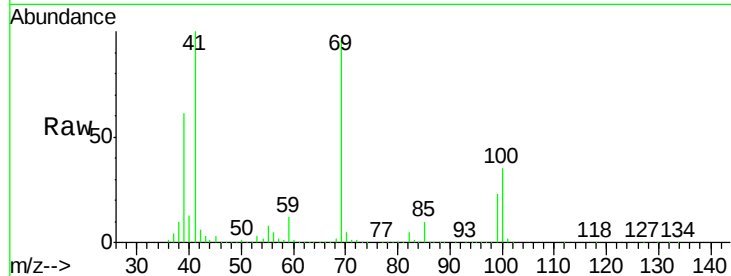
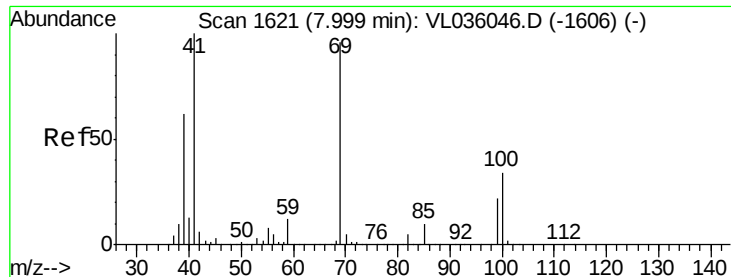


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





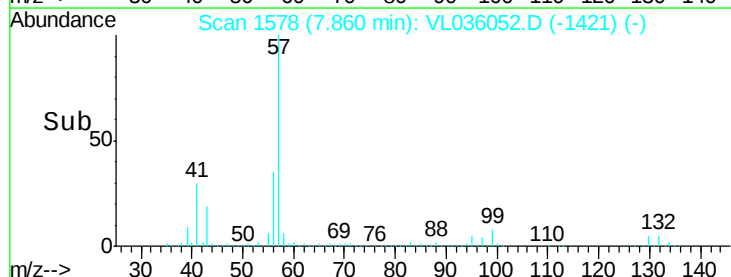
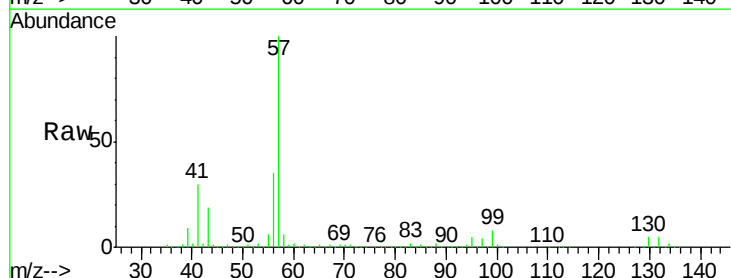
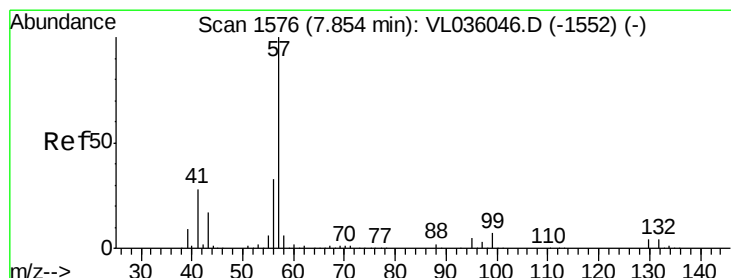
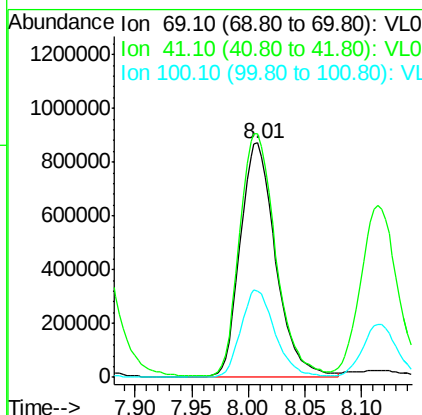
#43
Methyl Methacrylate
Concen: 16.169 ppbv
RT: 8.01 min Scan# 1624
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tot Ion	Ratio	Lower	Upper
69	100		
41	106.1	86.5	129.7
100	36.2	29.0	43.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

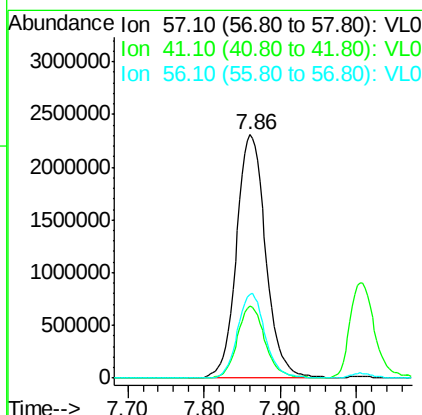
Manual Integrations
APPROVED

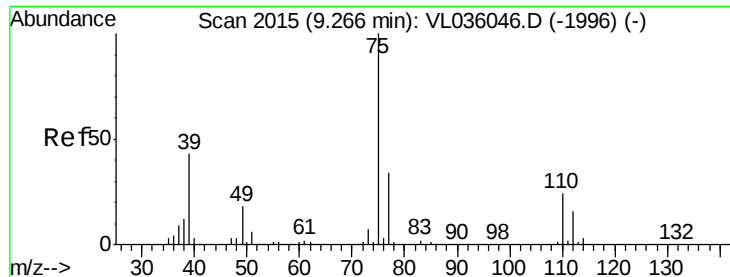
MMDadoda
12/7/2020 12:08:26 PM



#44
2,2,4-Trimethylpentane
Concen: 15.050 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	28.1	21.9	32.9
56	32.9	25.8	38.6





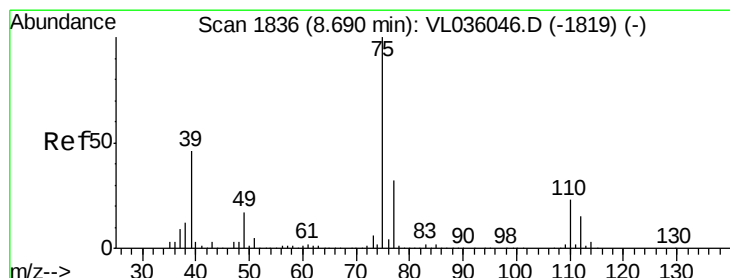
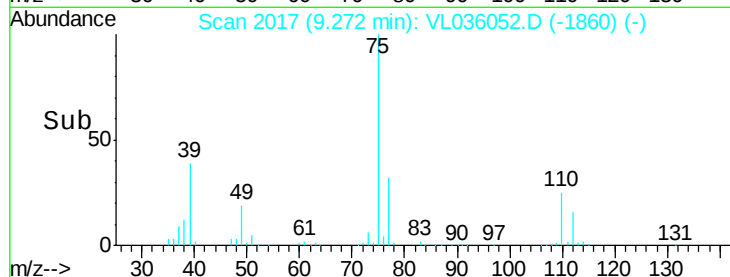
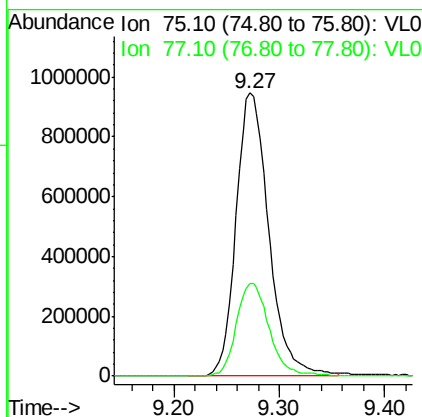
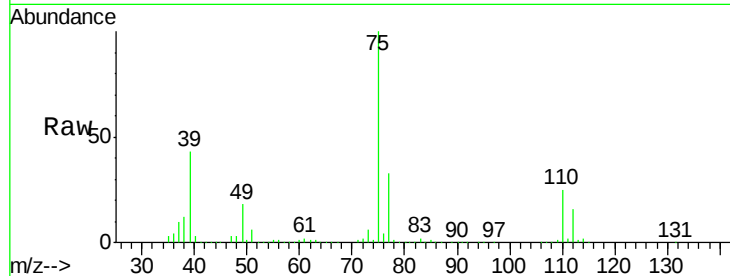
#45
t-1,3-Dichloropropene
Concen: 16.324 ppbv
RT: 9.27 min Scan# 2017
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 2040851
Ion Ratio Lower Upper
75 100
77 32.6 26.8 40.2

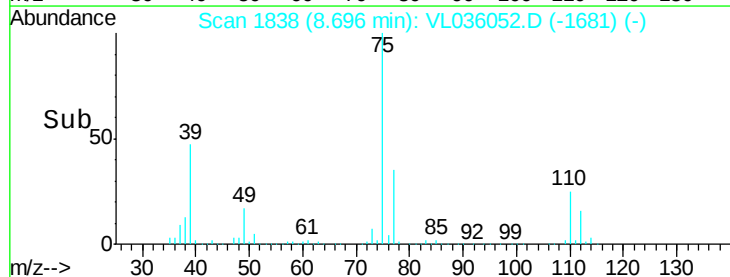
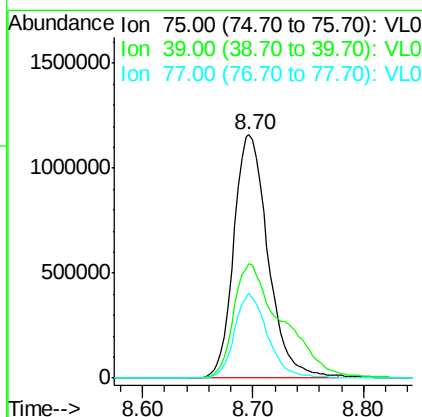
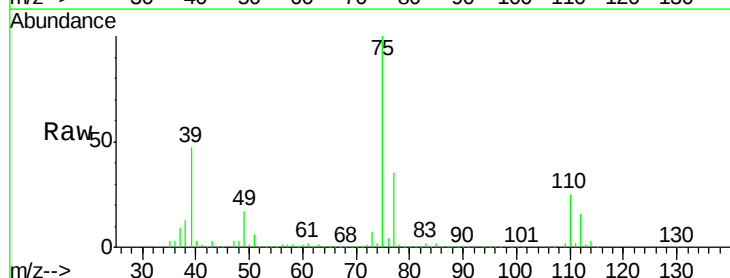
Manual Integrations
APPROVED

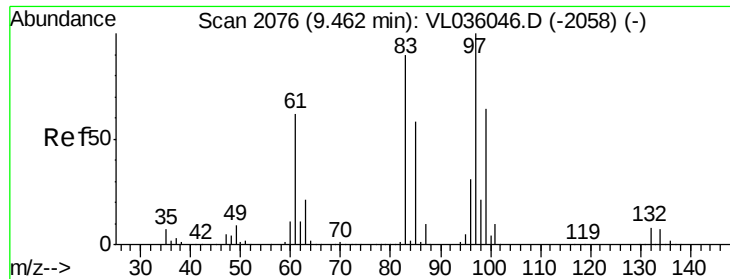
MMDadoda
12/7/2020 12:08:26 PM



#46
cis-1,3-Dichloropropene
Concen: 15.824 ppbv
RT: 8.70 min Scan# 1838
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion: 75 Resp: 2505539
Ion Ratio Lower Upper
75 100
39 46.8 37.0 55.4
77 34.9 25.5 38.3





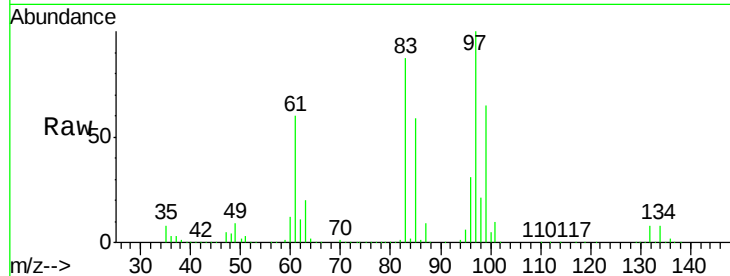
#47
 1,1,2-Trichloroethane
 Concen: 14.699 ppbv
 RT: 9.47 min Scan# 2079
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

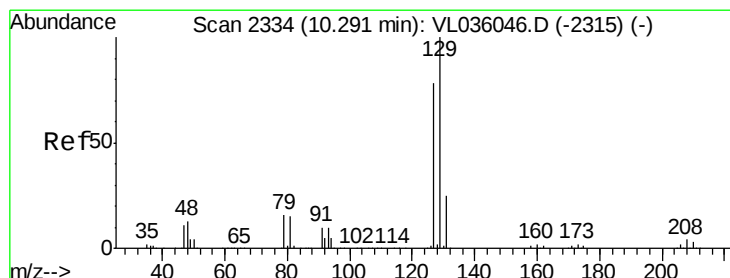
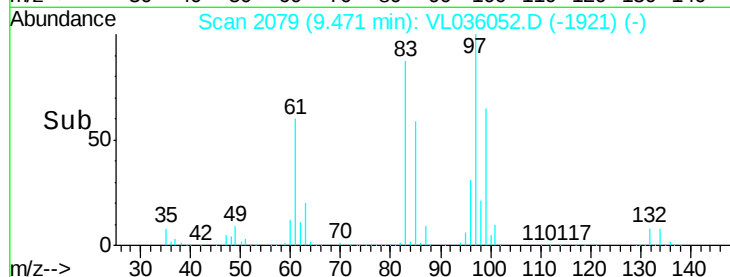
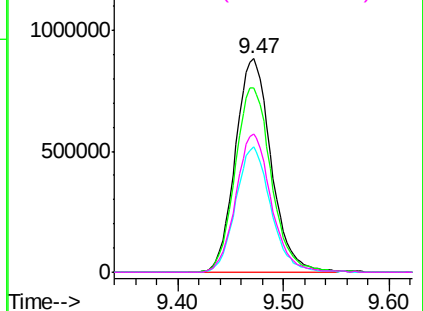
Tot Ion: 97 Resp: 2084950
 Ion Ratio Lower Upper
 97 100
 83 86.5 72.1 108.1
 85 58.7 46.6 69.8
 99 65.0 51.0 76.4

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:26 PM

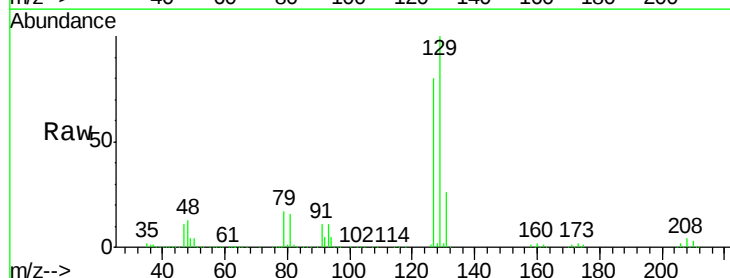


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

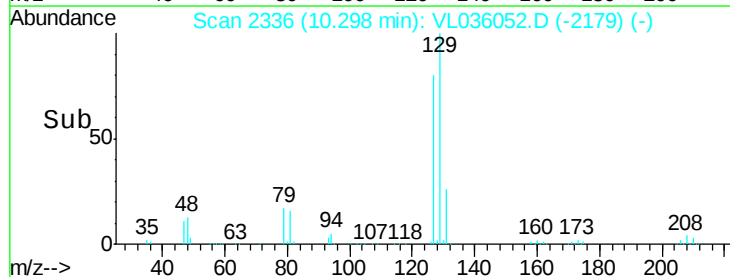
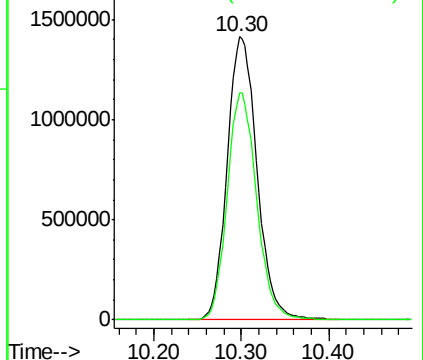


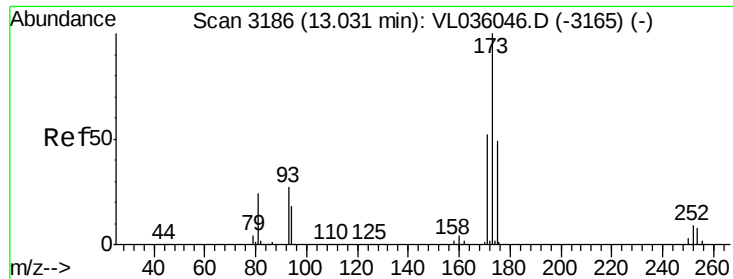
#48
 Dibromochloromethane
 Concen: 15.484 ppbv
 RT: 10.30 min Scan# 2336
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion: 129 Resp: 3355329
 Ion Ratio Lower Upper
 129 100
 127 79.3 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 14.761 ppbv

RT: 13.04 min Scan# 3188

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2699061

Ion Ratio Lower Upper

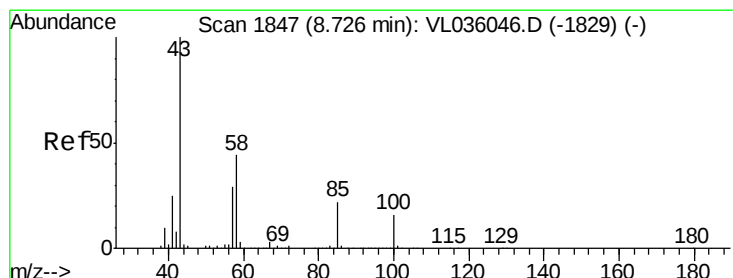
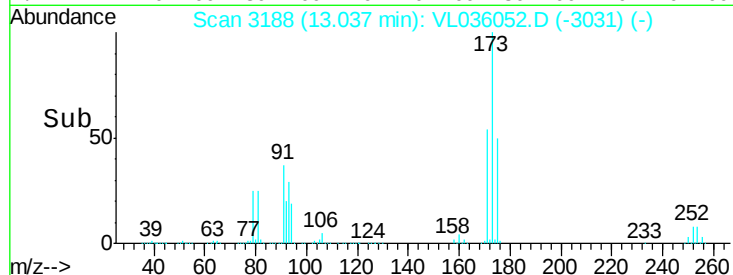
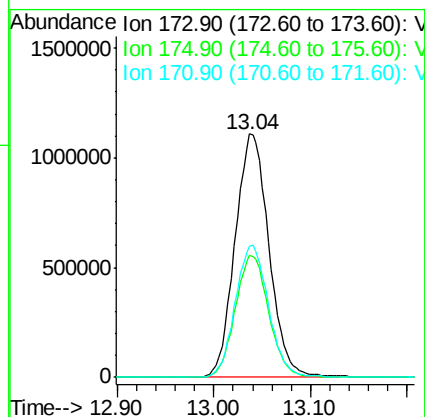
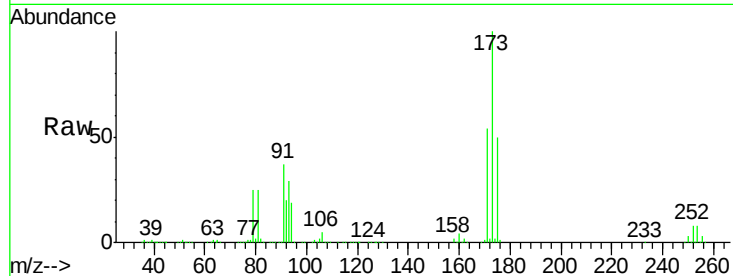
173 100

175 50.0 39.5 59.3

171 53.8 42.6 63.8

Manual Integrations
APPROVED

MMDadoda
12/7/2020 12:08:26 PM



#50

4-Methyl-2-Pentanone

Concen: 17.037 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VL036052.D

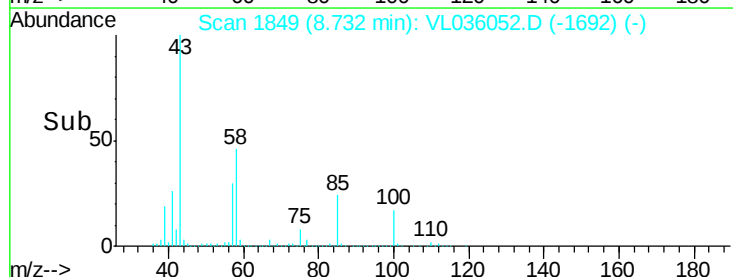
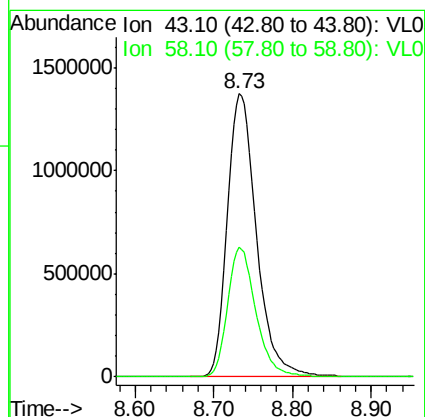
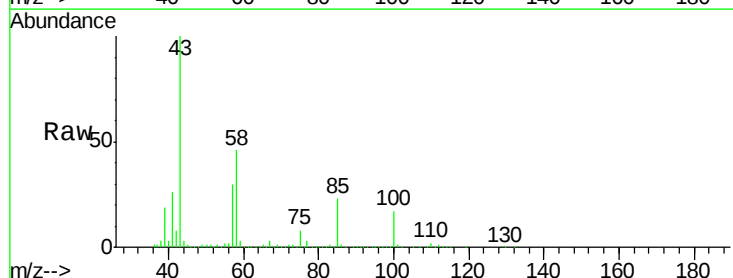
Acq: 3 Dec 2020 13:36

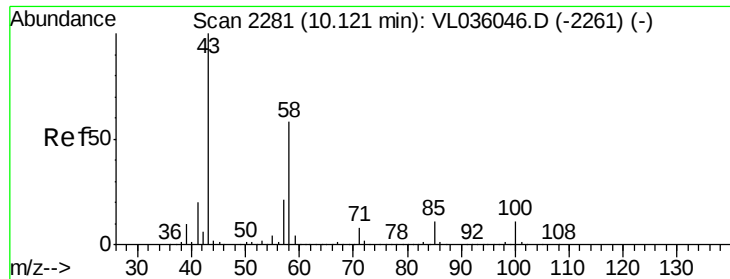
Tgt Ion: 43 Resp: 3516294

Ion Ratio Lower Upper

43 100

58 44.5 34.7 52.1





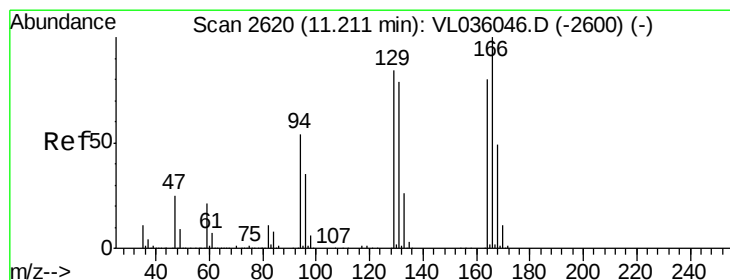
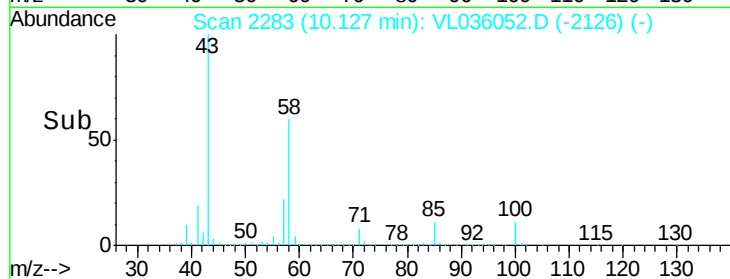
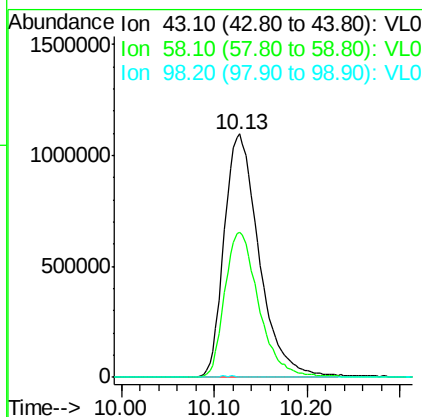
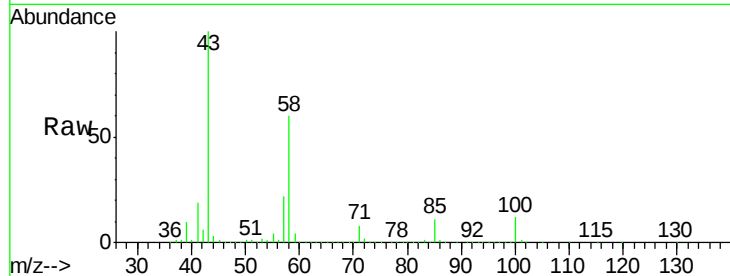
#51
2-Hexanone
Concen: 17.335 ppbv
RT: 10.13 min Scan# 2283
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 43 Resp: 2874093
Ion Ratio Lower Upper
43 100
58 58.4 45.7 68.5
98 0.8 0.8 1.2#

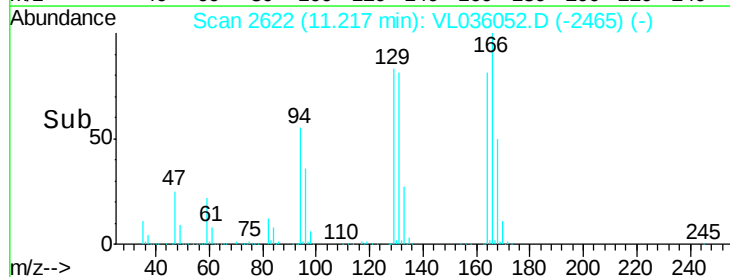
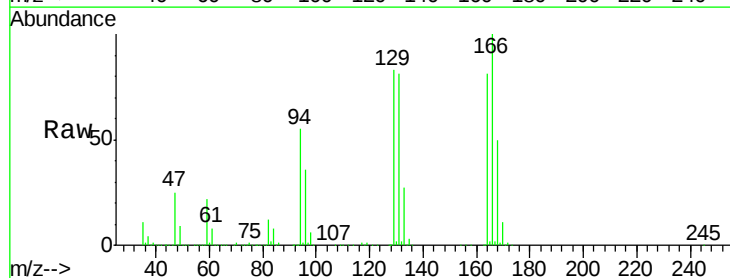
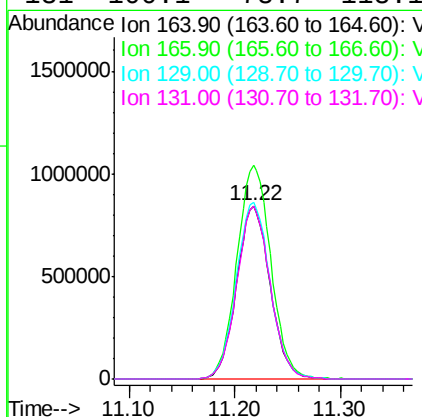
Manual Integrations
APPROVED

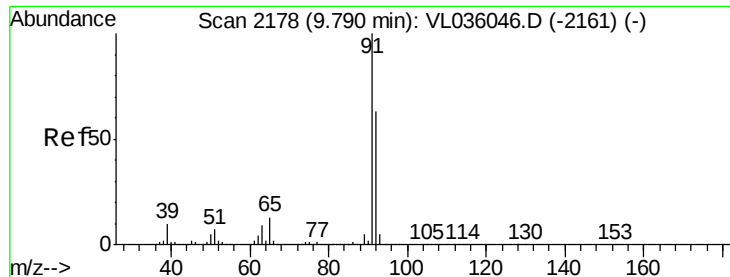
MMDadoda
12/7/2020 12:08:26 PM



#52
Tetrachloroethene
Concen: 12.671 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion: 164 Resp: 1856109
Ion Ratio Lower Upper
164 100
166 123.4 100.2 150.2
129 101.9 83.7 125.5
131 100.1 78.7 118.1





#53

Toluene

Concen: 14.353 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5354885

Ion Ratio Lower Upper

91 100

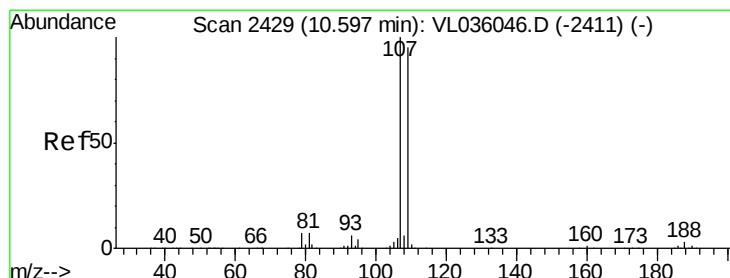
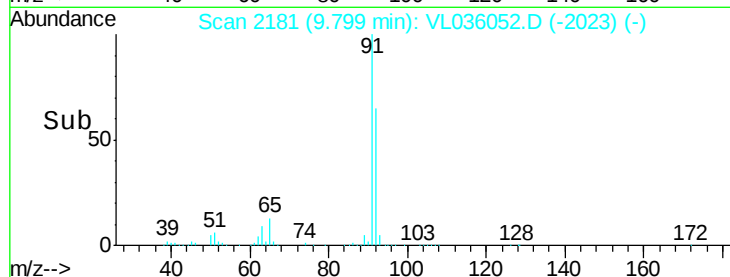
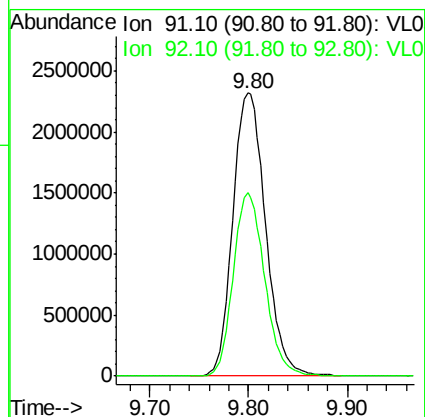
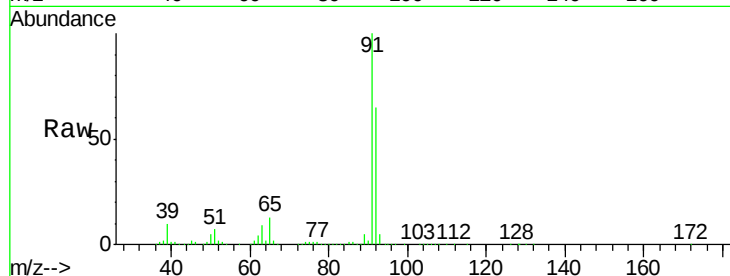
92 62.5 49.3 73.9

Manual Integrations

APPROVED

MMDadoda

12/7/2020 12:08:26 PM



#54

1,2-Dibromoethane

Concen: 14.556 ppbv

RT: 10.61 min Scan# 2432

Delta R.T. 0.01 min

Lab File: VL036052.D

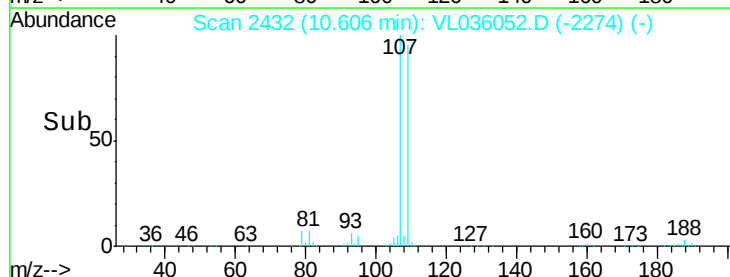
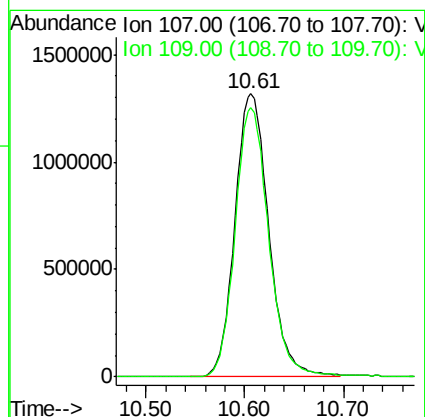
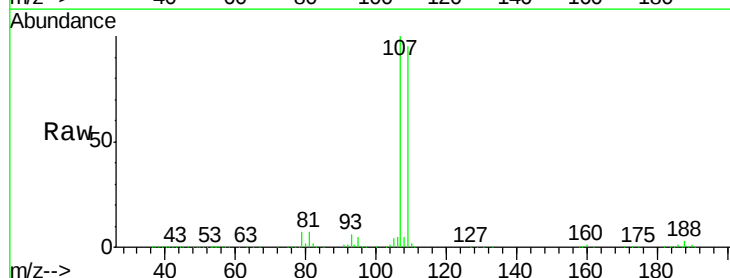
Acq: 3 Dec 2020 13:36

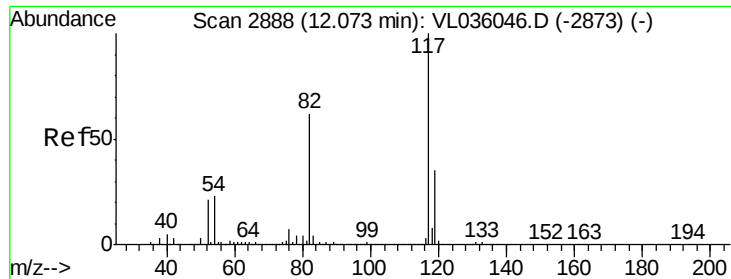
Tgt Ion: 107 Resp: 3139950

Ion Ratio Lower Upper

107 100

109 95.3 75.7 113.5





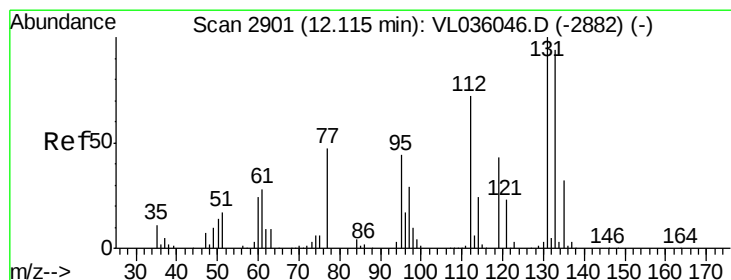
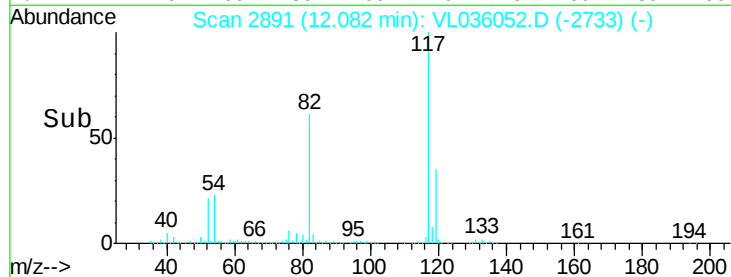
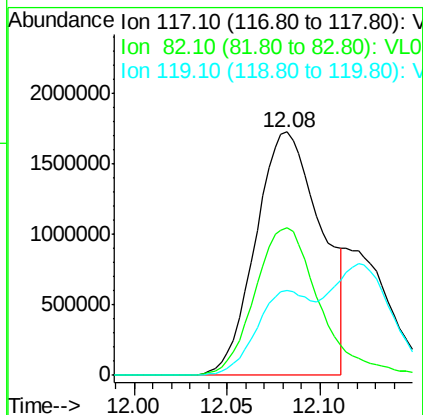
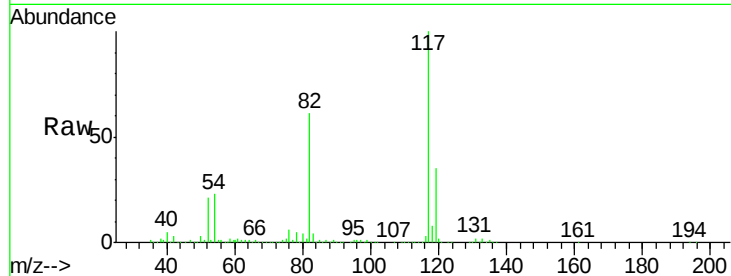
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.08 min Scan# 2891
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 4248123
Ion Ratio Lower Upper
117 100
82 60.3 49.9 74.9
119 73.6 28.7 43.1#

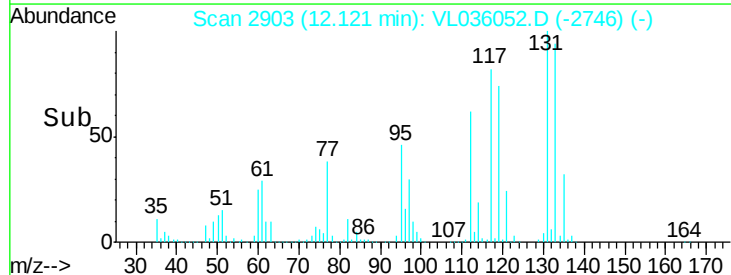
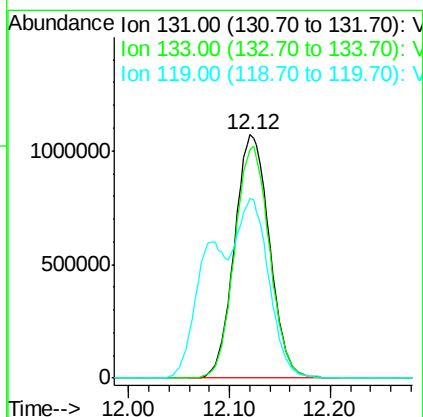
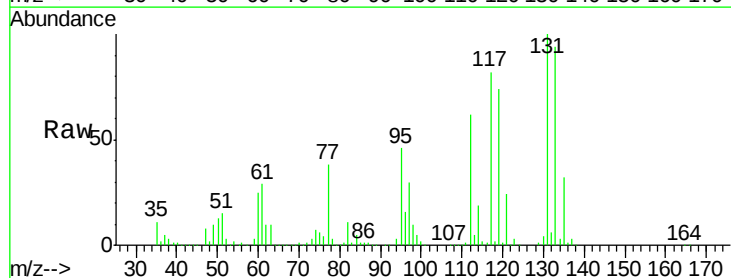
Manual Integrations
APPROVED

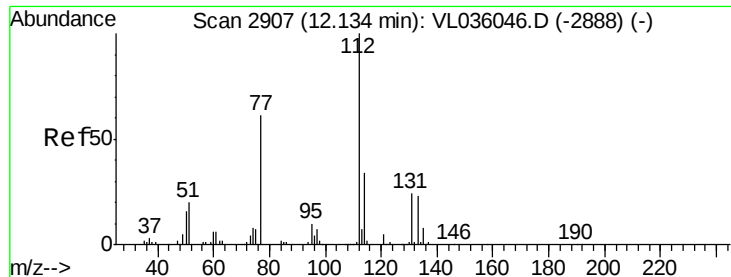
MMDadoda
12/7/2020 12:08:26 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 13.525 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion:131 Resp: 2578777
Ion Ratio Lower Upper
131 100
133 94.9 76.1 114.1
119 121.2 49.5 74.3#





#57

Chlorobenzene

Concen: 12.692 ppbv

RT: 12.14 min Scan# 2910

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 112 Resp: 4286851

Ion Ratio Lower Upper

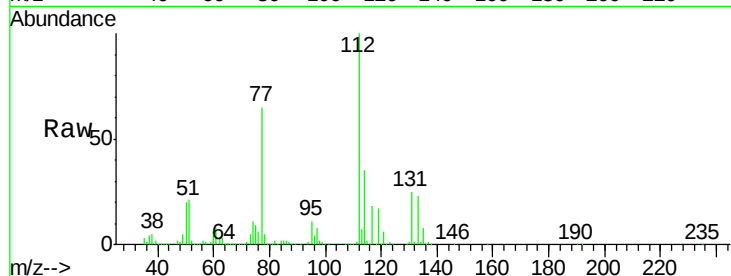
112 100

77 64.9 49.3 73.9

114 35.1 30.2 36.9

Manual Integrations
APPROVED

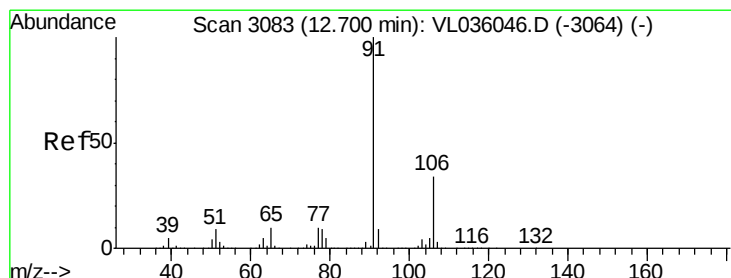
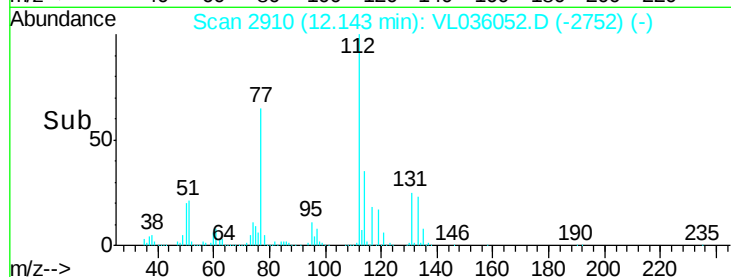
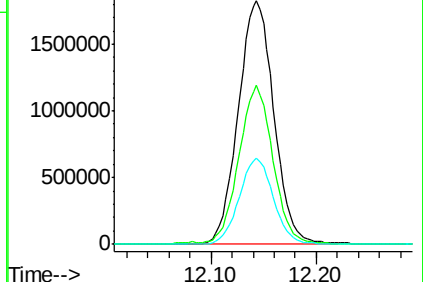
MMDadoda
12/7/2020 12:08:26 PM



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: 13.091 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. 0.01 min

Lab File: VL036052.D

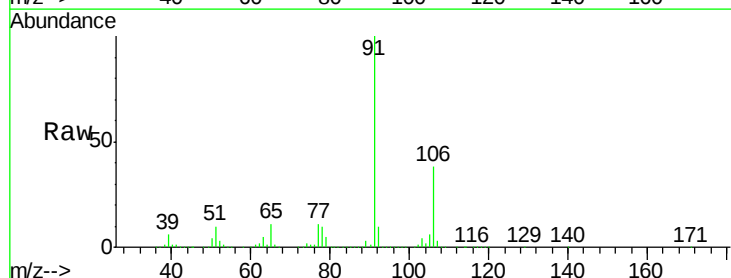
Acq: 3 Dec 2020 13:36

Tgt Ion: 91 Resp: 6773064

Ion Ratio Lower Upper

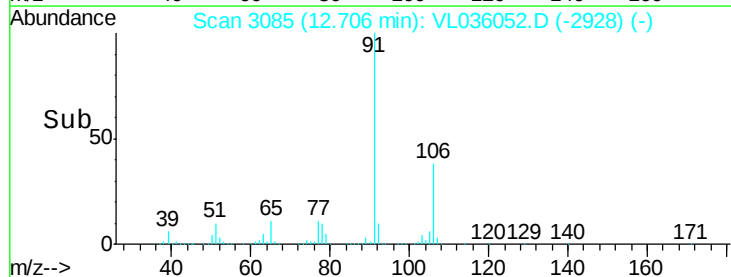
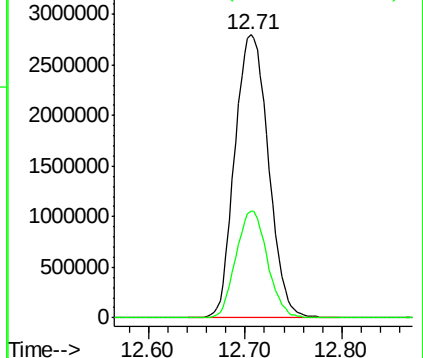
91 100

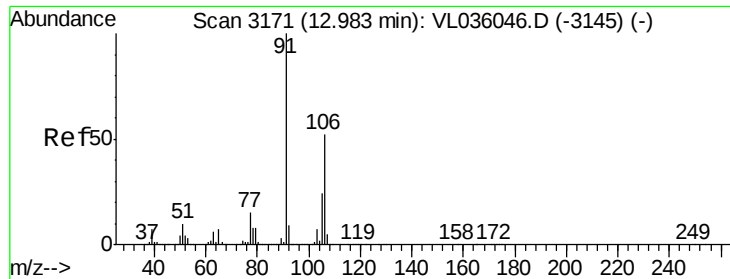
106 37.6 27.4 41.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





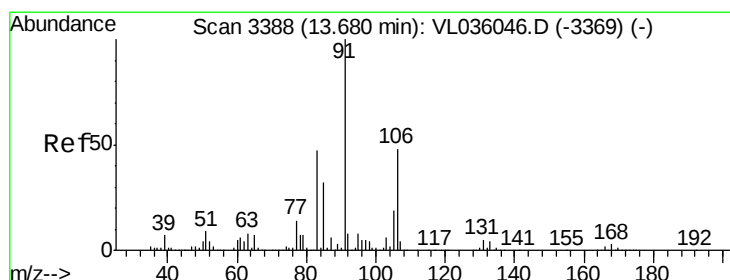
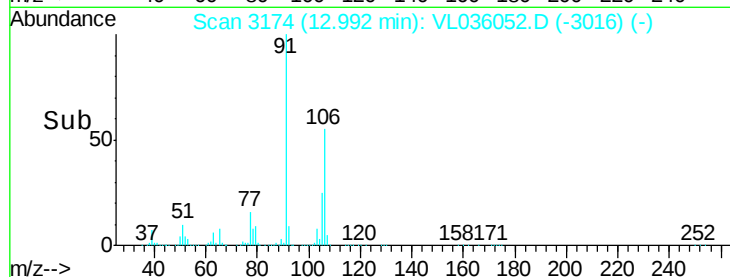
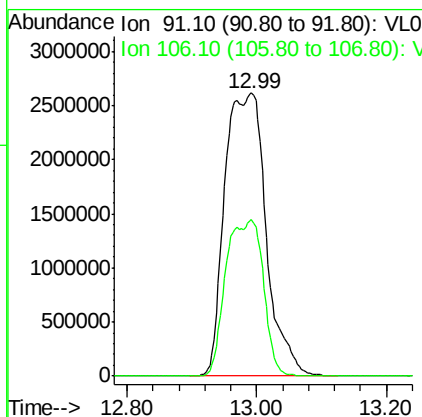
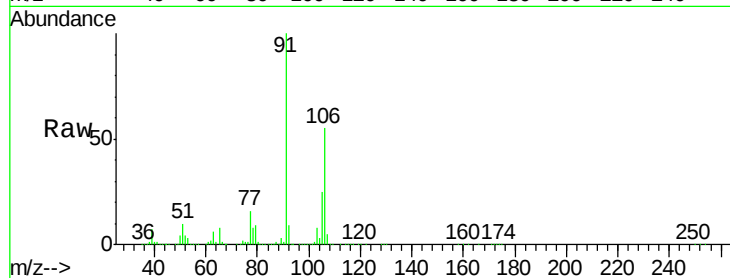
#59
m/p-Xylene
Concen: 26.443 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 11575229
Ion Ratio Lower Upper
91 100
106 50.1 38.7 58.1

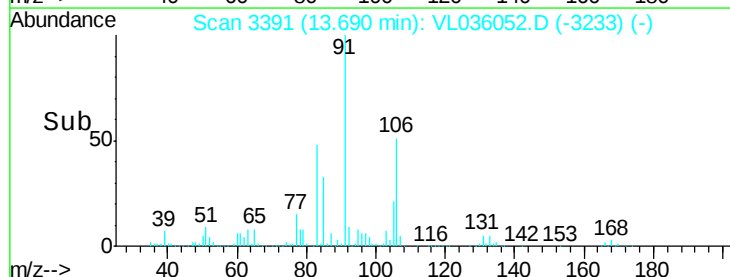
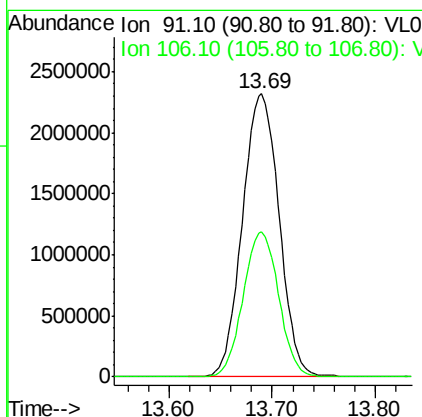
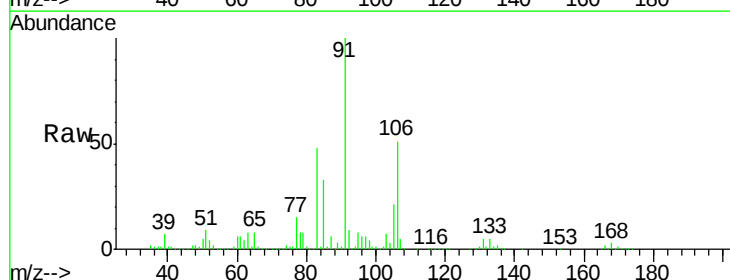
Manual Integrations
APPROVED

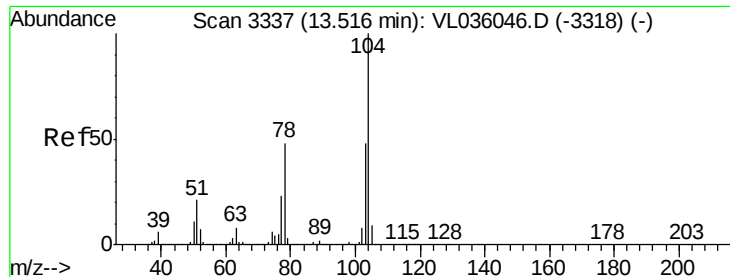
MMDadoda
12/7/2020 12:08:26 PM



#60
o-Xylene
Concen: 13.424 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion: 91 Resp: 5716270
Ion Ratio Lower Upper
91 100
106 49.7 24.1 72.3





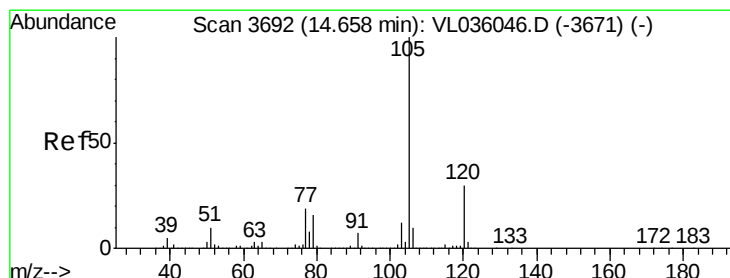
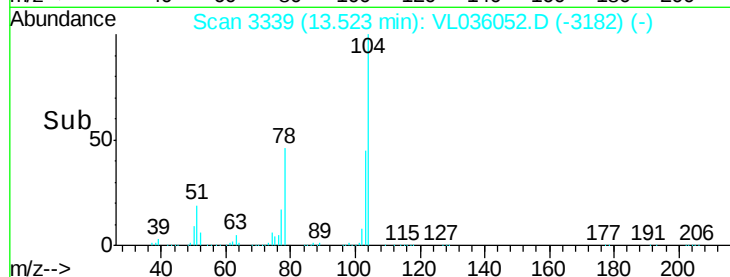
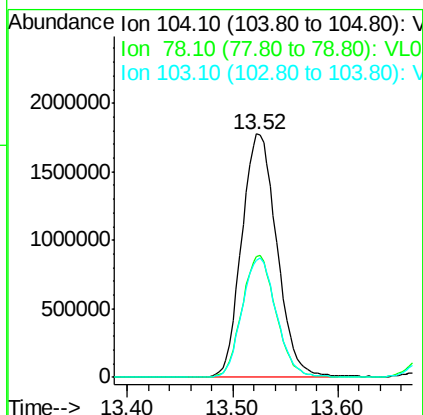
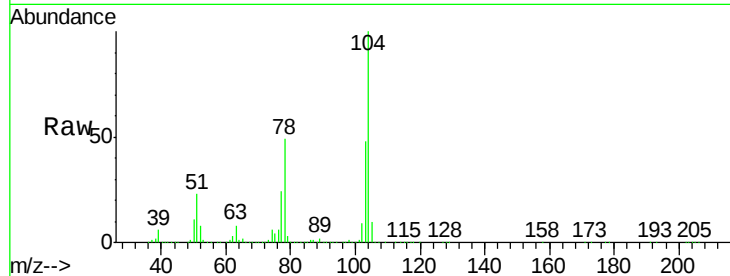
#61
Stvrene
Concen: 13.217 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:104 Resp: 4123690
Ion Ratio Lower Upper
104 100
78 48.7 38.0 57.0
103 48.2 37.7 56.5

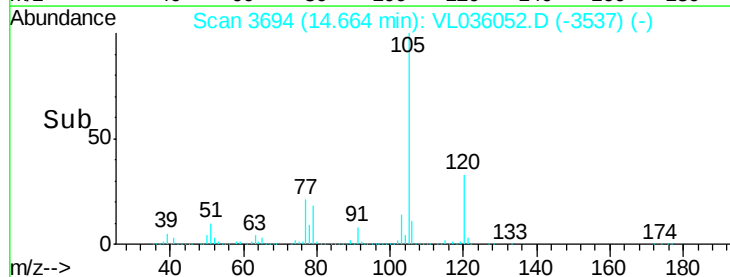
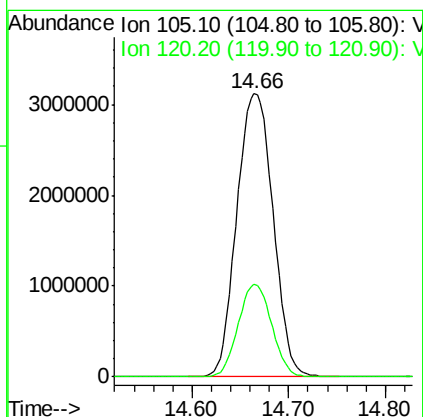
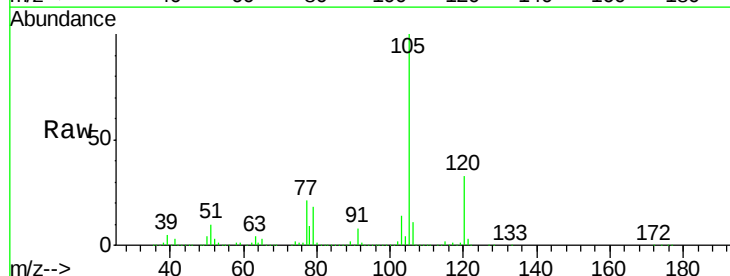
Manual Integrations
APPROVED

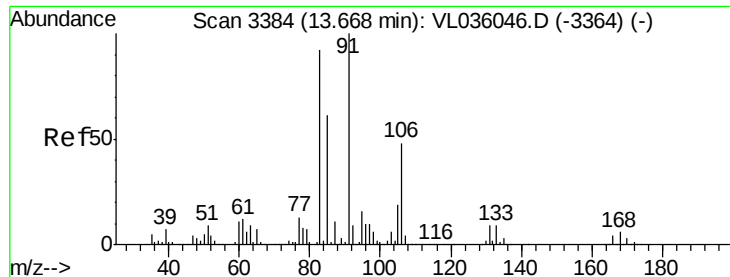
MMDadoda
12/7/2020 12:08:26 PM



#62
Isopropylbenzene
Concen: 12.148 ppbv
RT: 14.66 min Scan# 3694
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion:105 Resp: 8130946
Ion Ratio Lower Upper
105 100
120 30.3 22.6 34.0





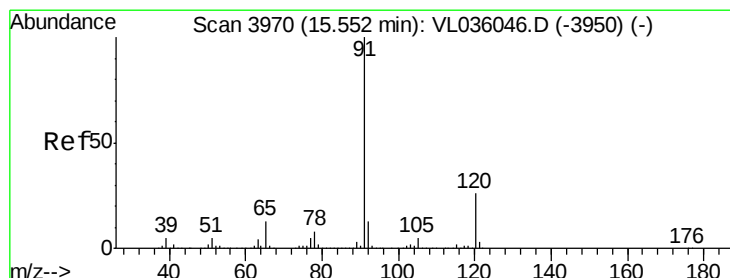
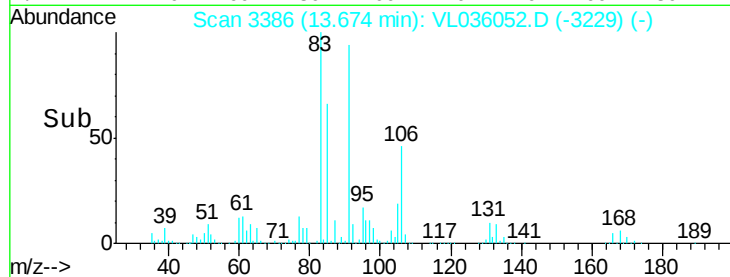
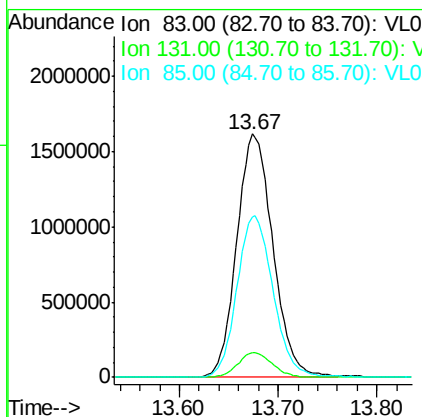
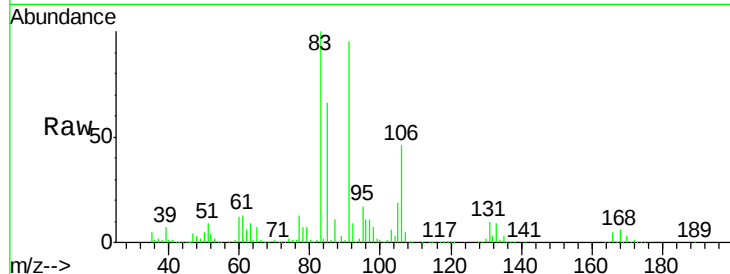
#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.463 ppbv
 RT: 13.67 min Scan# 3386
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 83 Resp: 4112303
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.8 14.4
 85 66.4 33.3 99.9

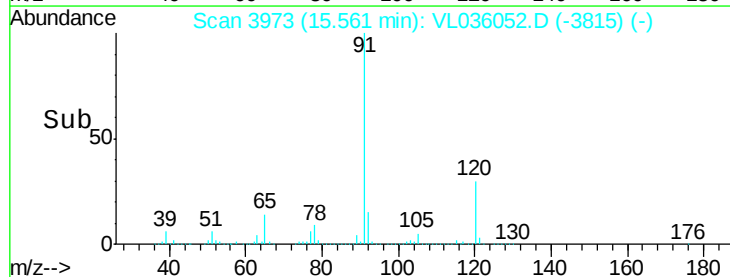
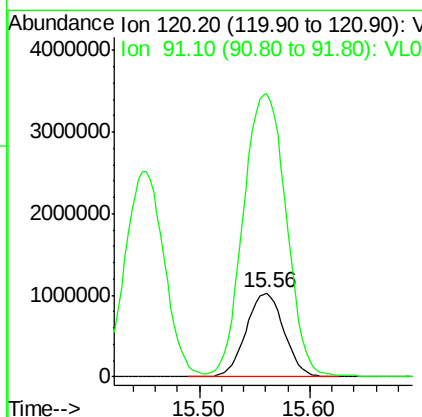
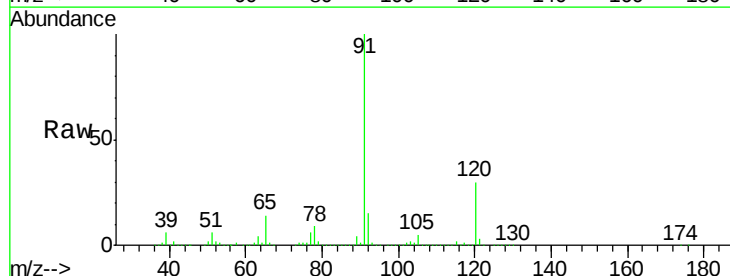
Manual Integrations
 APPROVED

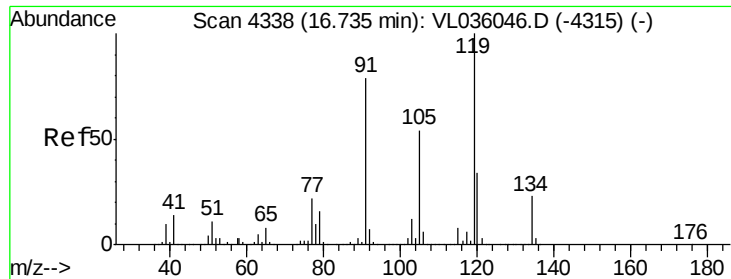
MMDadoda
 12/7/2020 12:08:26 PM



#64
 n-propylbenzene
 Concen: 12.654 ppbv
 RT: 15.56 min Scan# 3973
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion:120 Resp: 2448101
 Ion Ratio Lower Upper
 120 100
 91 382.6 331.4 497.2





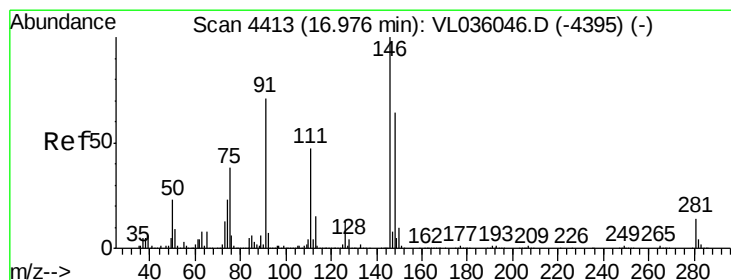
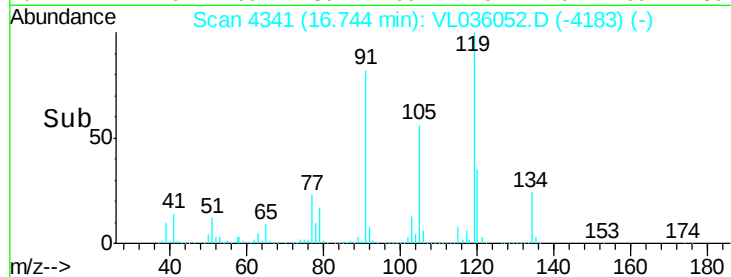
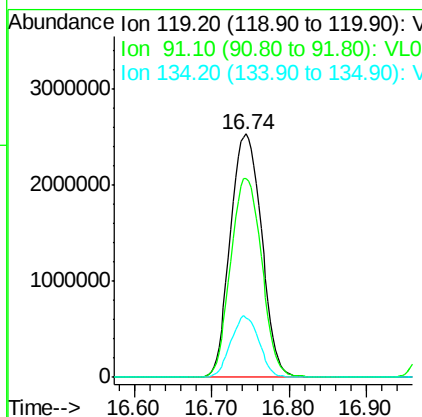
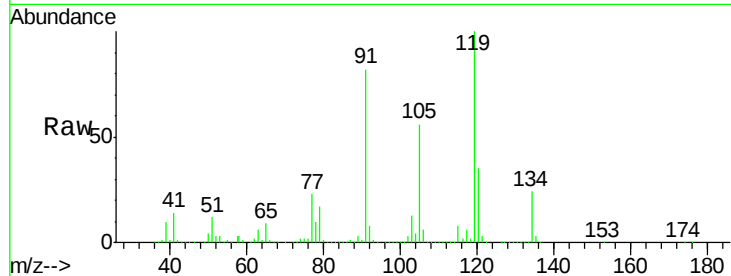
#65
 tert-Butylbenzene
 Concen: 11.687 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 119 Resp: 7119506
 Ion Ratio Lower Upper
 119 100
 91 81.1 63.4 95.2
 134 22.6 17.1 25.7

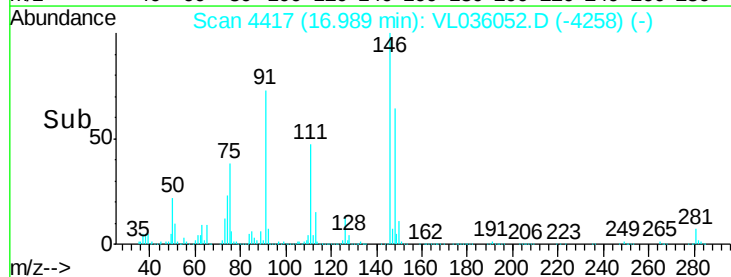
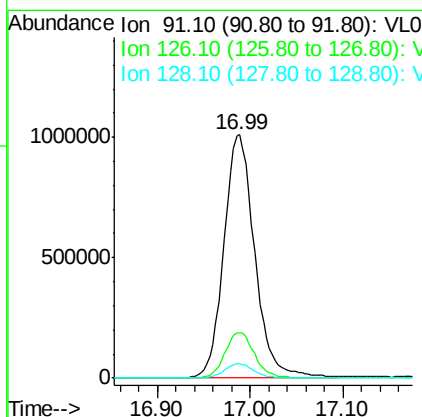
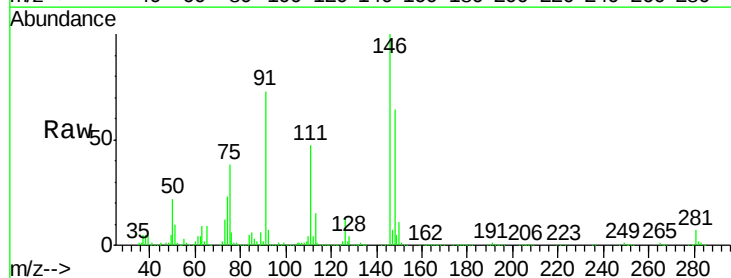
Manual Integrations
 APPROVED

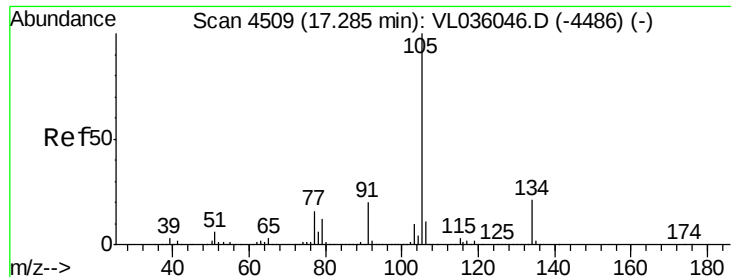
MMDadoda
 12/7/2020 12:08:26 PM



#66
 Benzyl Chloride
 Concen: 11.496 ppbv
 RT: 16.99 min Scan# 4417
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion: 91 Resp: 2314951
 Ion Ratio Lower Upper
 91 100
 126 18.5 14.3 21.5
 128 5.9 4.7 7.1





#67

sec-Butylbenzene

Concen: 11.370 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 9334212

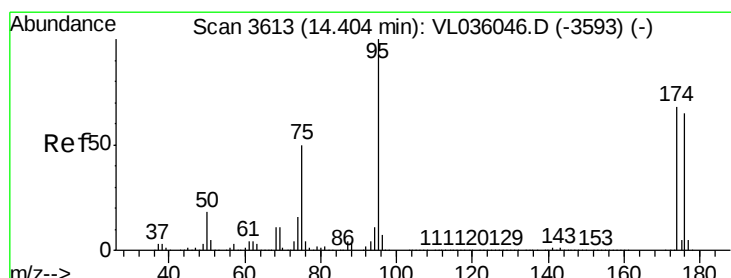
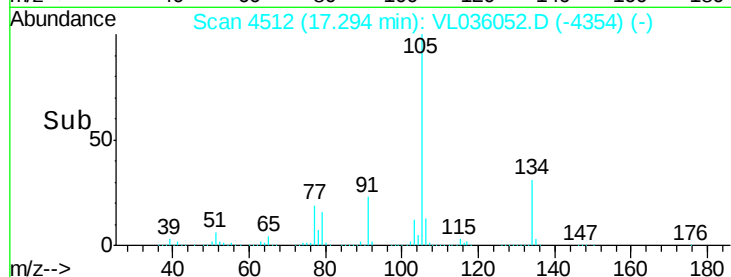
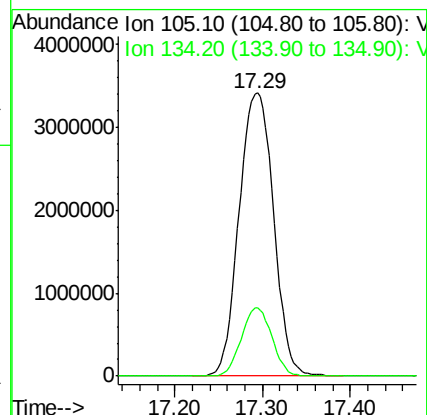
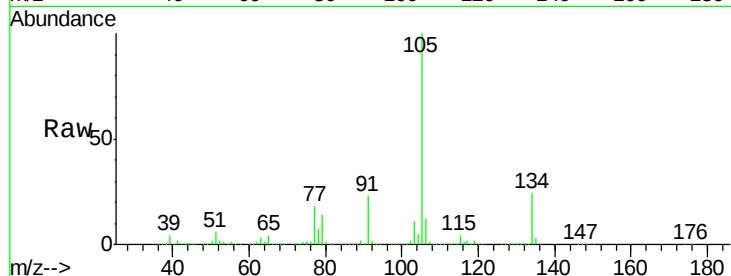
Ion Ratio Lower Upper

105 100

134 21.6 15.8 23.8

Manual Integrations
APPROVED

MMDadoda
12/7/2020 12:08:26 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.836 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

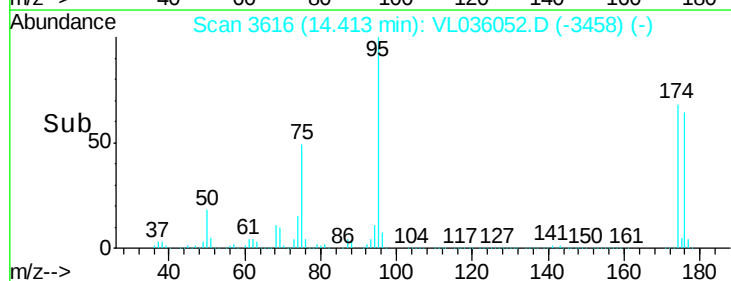
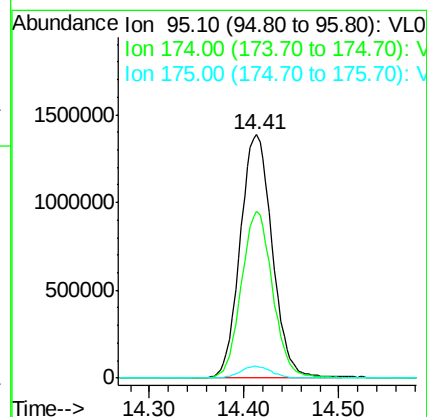
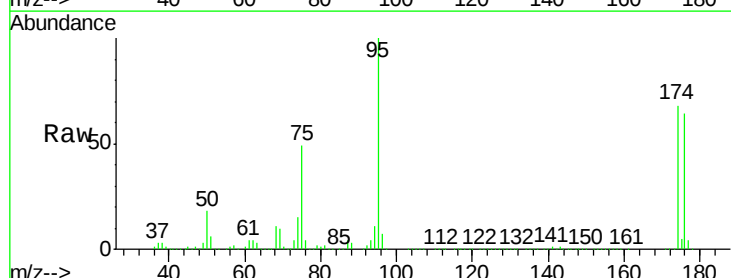
Tgt Ion: 95 Resp: 3270502

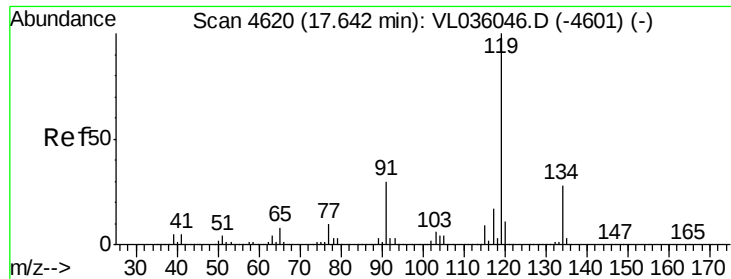
Ion Ratio Lower Upper

95 100

174 67.5 54.2 81.2

175 4.9 3.8 5.8





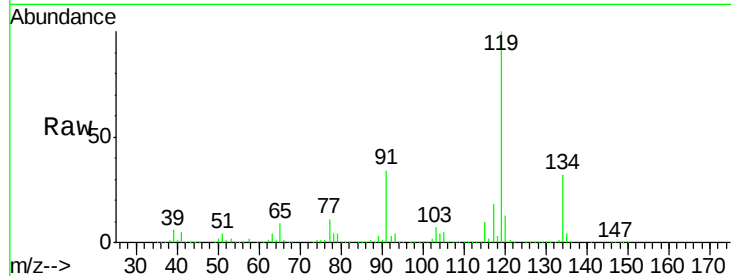
#69
p-Isopropyltoluene
Concen: 11.317 ppbv
RT: 17.65 min Scan# 4623
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

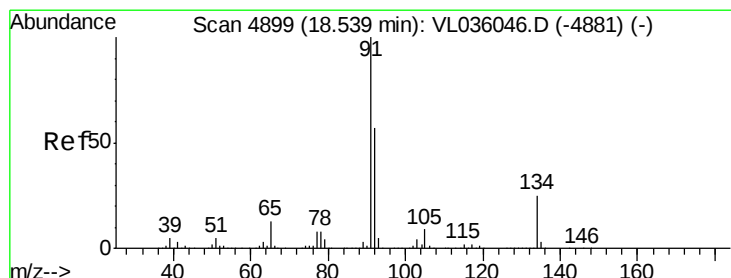
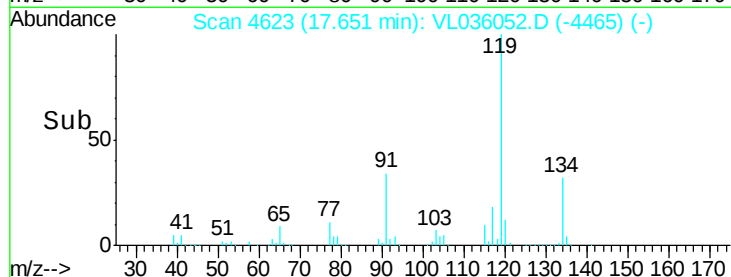
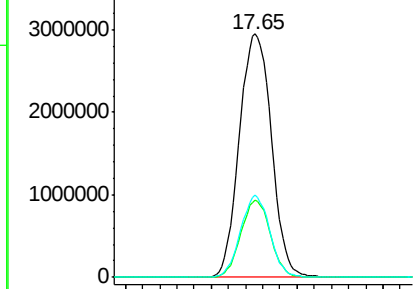
Tot Ion: 119 Resp: 7667186
Ion Ratio Lower Upper
119 100
134 29.3 22.2 33.2
91 30.7 23.2 34.8

Manual Integrations
APPROVED

MMDadoda
12/7/2020 12:08:26 PM

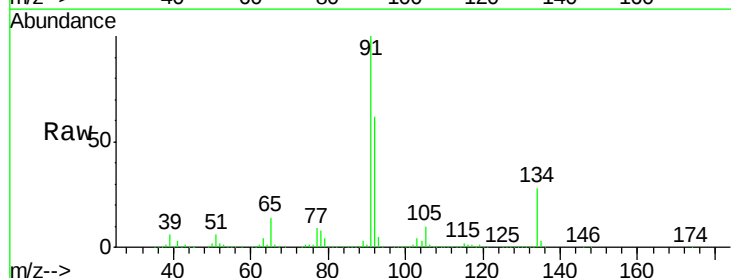


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

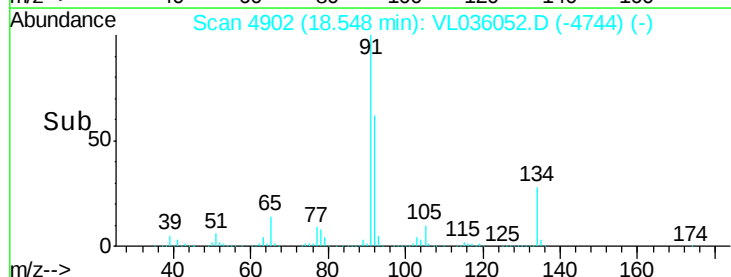
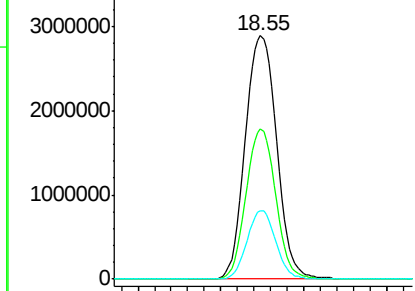


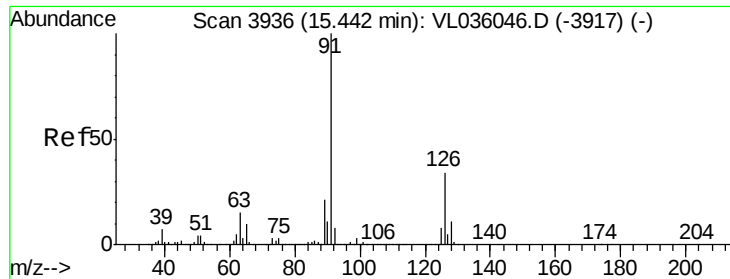
#70
n-Butylbenzene
Concen: 11.670 ppbv
RT: 18.55 min Scan# 4902
Delta R.T. 0.01 min
Lab File: VL036052.D
Acq: 3 Dec 2020 13:36

Tgt Ion: 91 Resp: 7613782
Ion Ratio Lower Upper
91 100
92 58.4 45.2 67.8
134 25.7 19.2 28.8



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: 12.632 ppbv

RT: 15.45 min Scan# 3938

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6184036

Ion Ratio Lower Upper

91 100

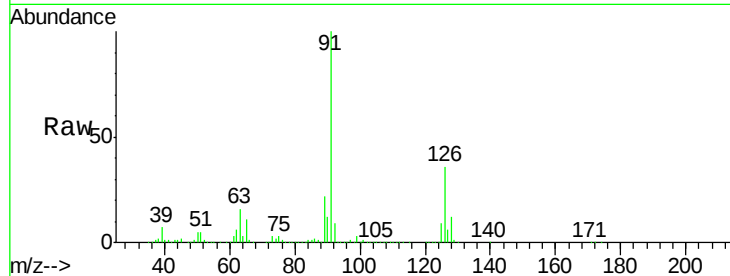
126 34.7 13.2 53.0

Manual Integrations

APPROVED

MMDadoda

12/7/2020 12:08:26 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

4000000

3000000

2000000

1000000

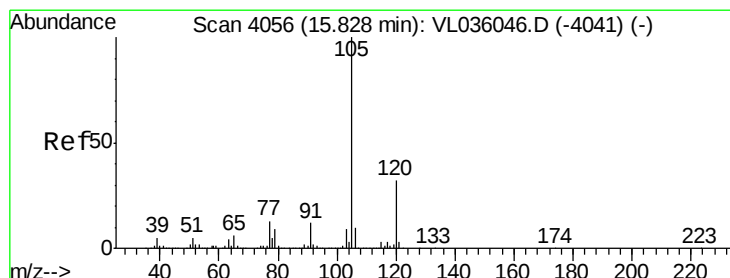
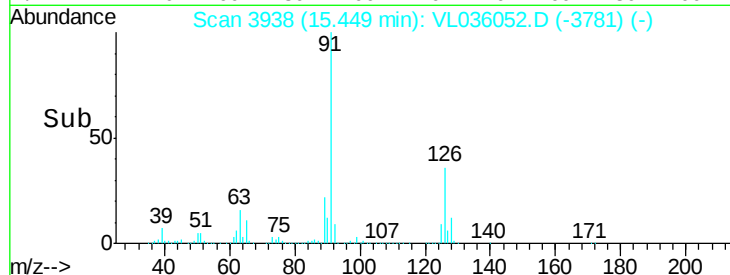
0

15.45

15.40

15.50

Time-->



#72

4-Ethyltoluene

Concen: 12.565 ppbv

RT: 15.84 min Scan# 4060

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Tgt Ion: 105 Resp: 6489542

Ion Ratio Lower Upper

105 100

120 33.1 25.3 37.9

91 13.3 10.1 15.1

77 13.8 10.5 15.7

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

4000000

3000000

2000000

1000000

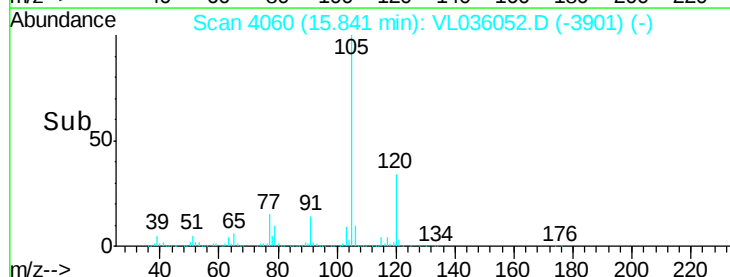
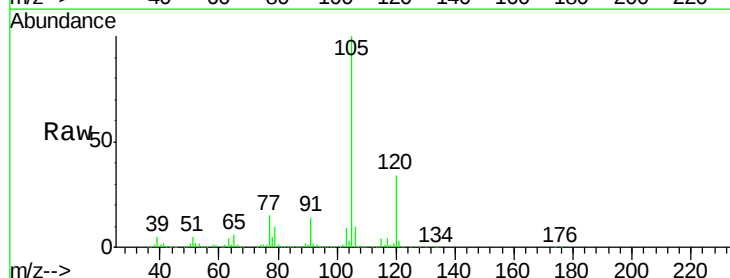
0

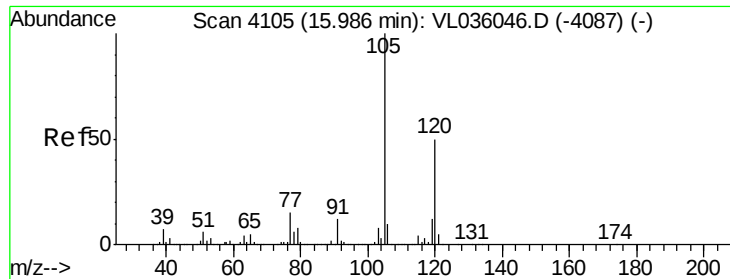
15.84

15.80

15.90

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 12.596 ppbv

RT: 16.00 min Scan# 4108

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5953514

Ion Ratio Lower Upper

105 100

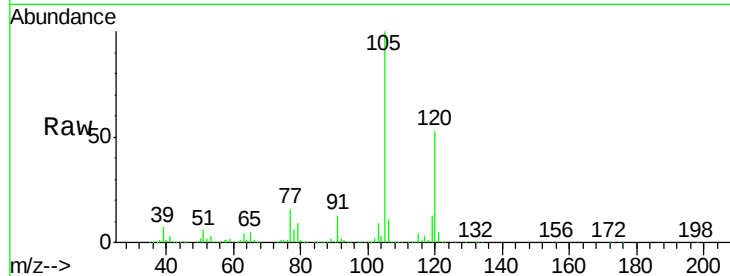
120 53.2 39.8 59.8

Manual Integrations

APPROVED

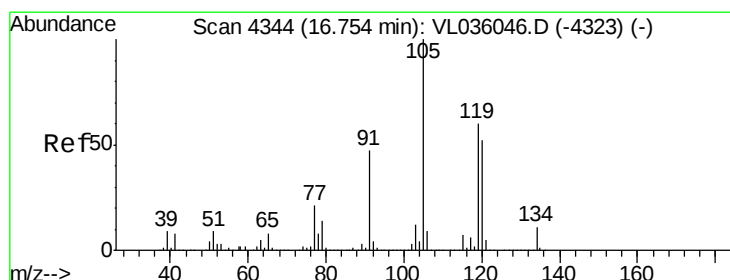
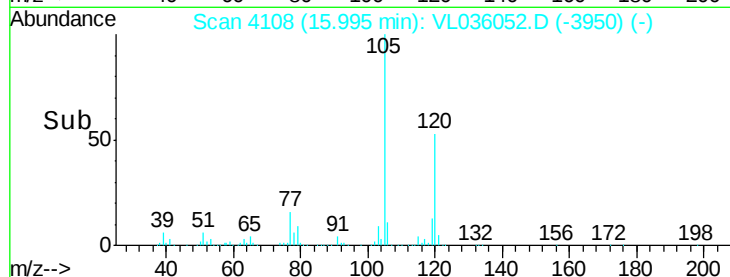
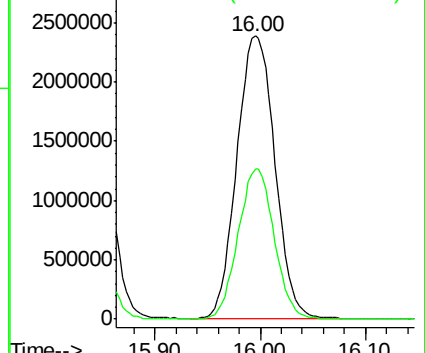
MMDadoda

12/7/2020 12:08:26 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 12.131 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Tgt Ion:105 Resp: 6143303

Ion Ratio Lower Upper

105 100

120 54.1 41.5 62.3

91 51.0 38.1 57.1

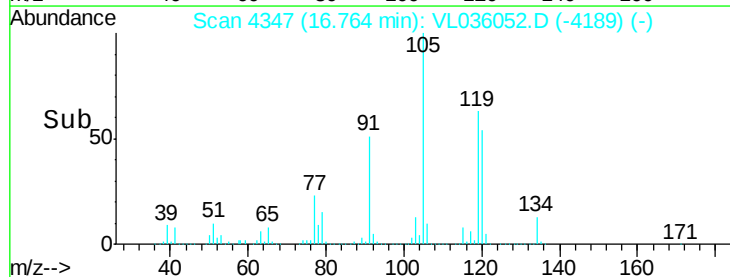
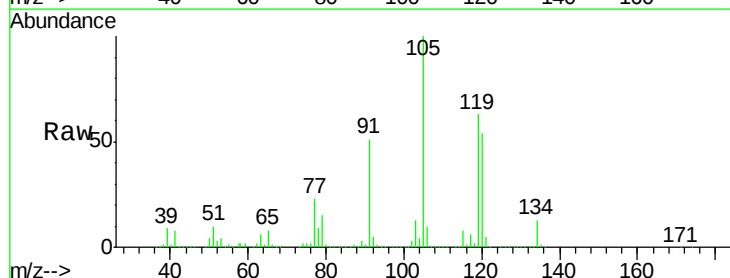
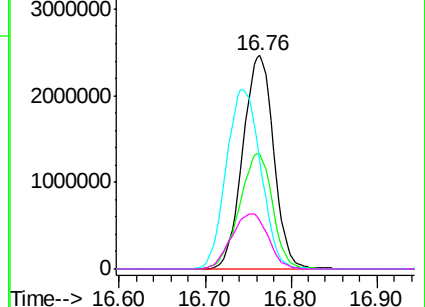
77 22.6 17.0 25.4

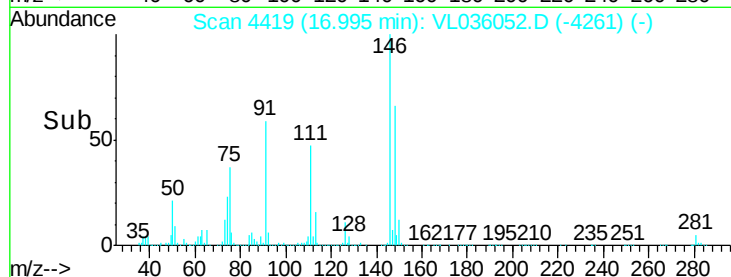
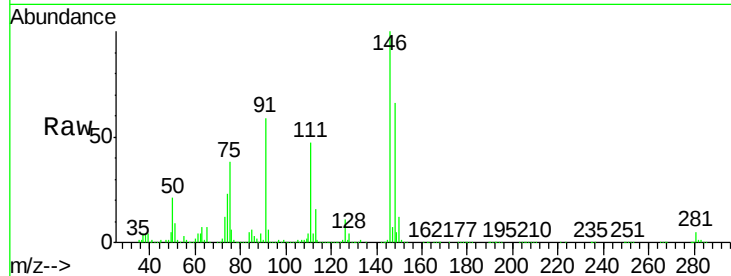
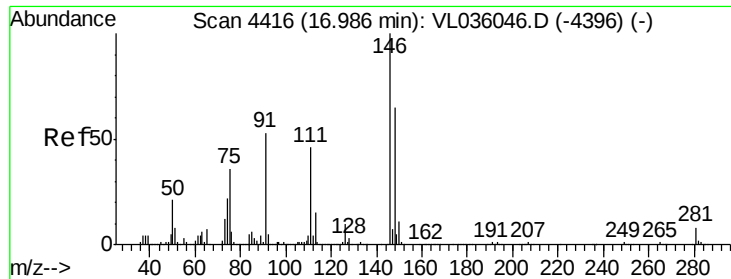
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 11.494 ppbv

RT: 17.00 min Scan# 4419

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Tot Ion:	146	Resp:	3706388
Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.9	68.7
148	65.4	32.4	97.0

Instrument :

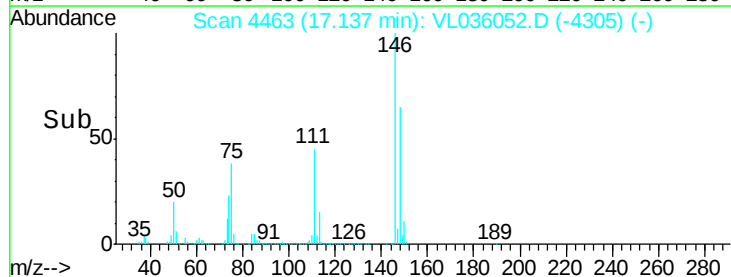
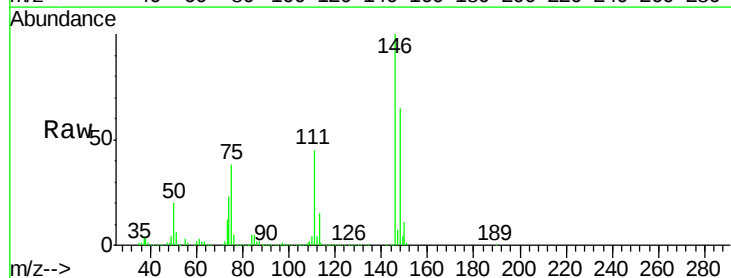
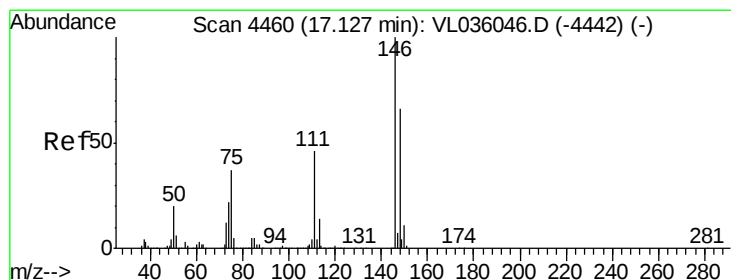
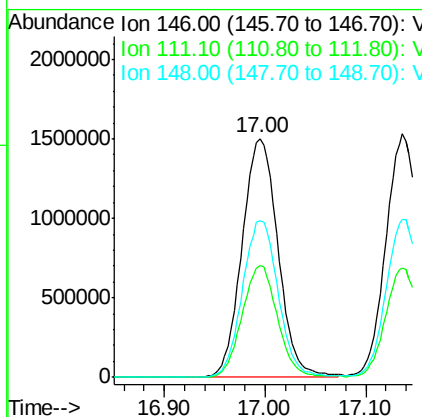
MSVOA_L

ClientSampleId :

VSTDIC015

Manual Integrations
APPROVED

MMDadoda
12/7/2020 12:08:26 PM



#76

1,4-Dichlorobenzene

Concen: 11.603 ppbv

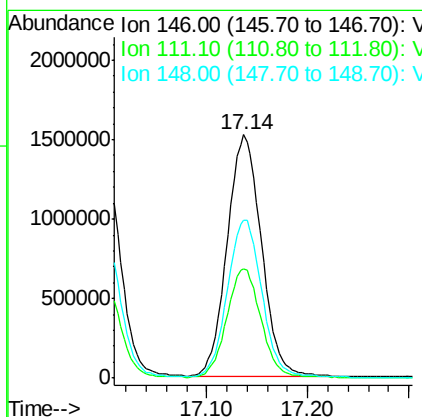
RT: 17.14 min Scan# 4463

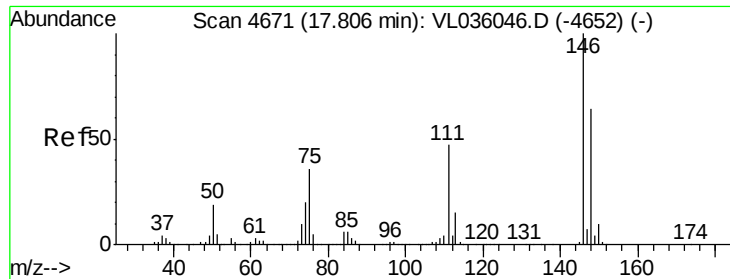
Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Tgt Ion:	146	Resp:	3609237
Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.4	67.2
148	65.8	33.0	98.9





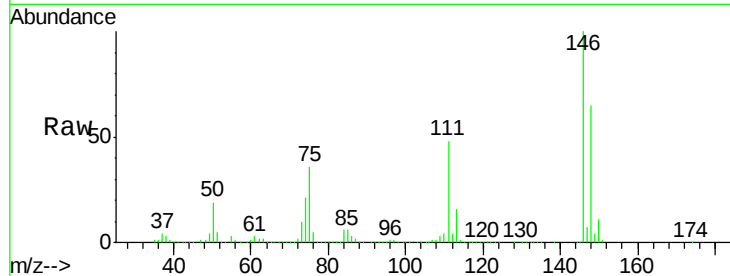
#77
 1,2-Dichlorobenzene
 Concen: 11.014 ppbv
 RT: 17.82 min Scan# 4675
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

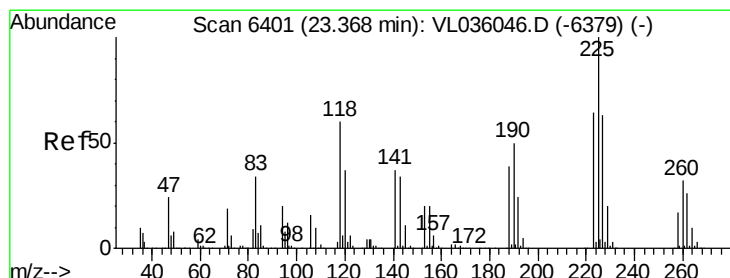
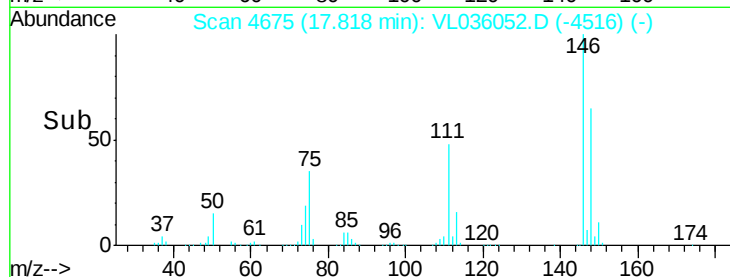
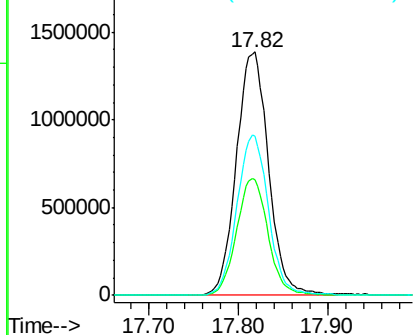
Tot Ion:146 Resp: 3462149
 Ion Ratio Lower Upper
 146 100
 111 47.1 23.5 70.6
 148 64.9 32.5 97.5

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:26 PM

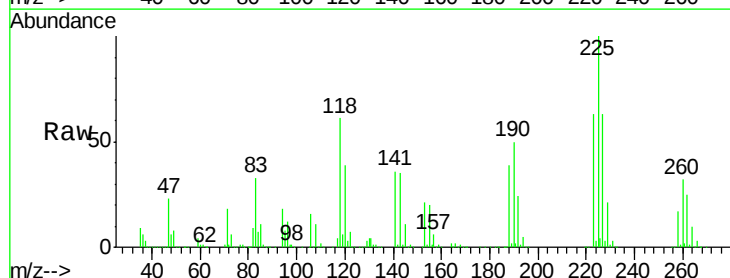


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

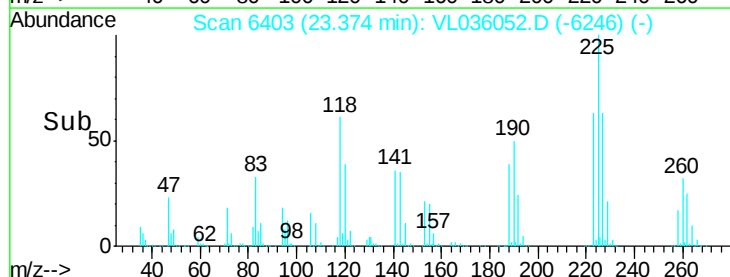
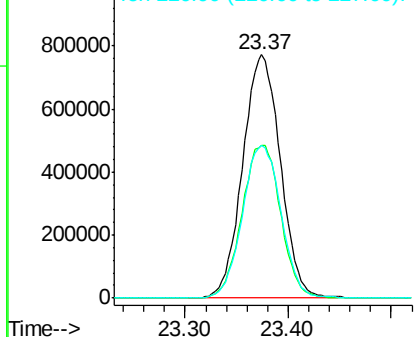


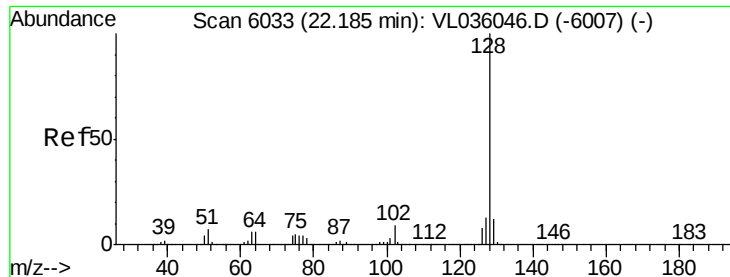
#78
 Hexachloro-1,3-Butadiene
 Concen: 13.390 ppbv
 RT: 23.37 min Scan# 6403
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Tgt Ion:225 Resp: 1963927
 Ion Ratio Lower Upper
 225 100
 223 64.5 51.0 76.4
 227 64.4 51.2 76.8



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: 12.251 ppbv

RT: 22.19 min Scan# 6036

Delta R.T. 0.01 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 4324965

Ion Ratio Lower Upper

128 100

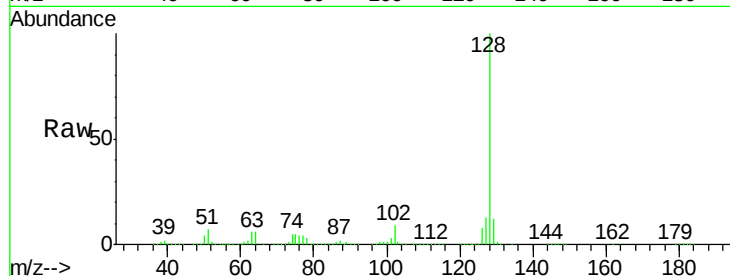
127 13.3 10.3 15.5

129 11.7 9.3 13.9

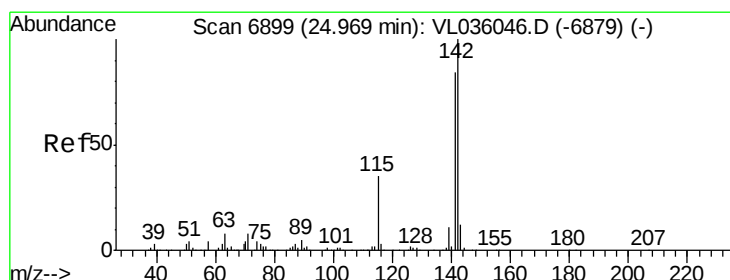
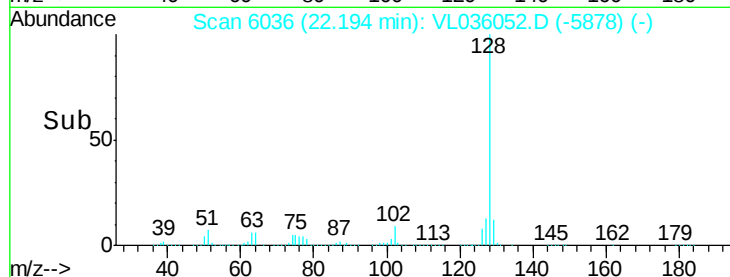
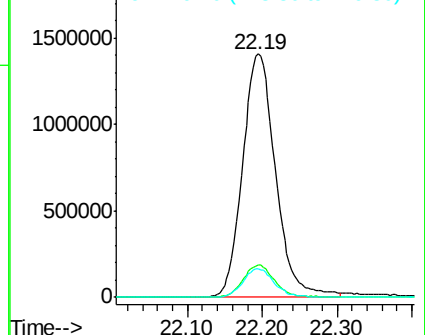
Manual Integrations
APPROVED

MMDadoda

12/7/2020 12:08:26 PM



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: 24.827 ppbv

RT: 24.97 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL036052.D

Acq: 3 Dec 2020 13:36

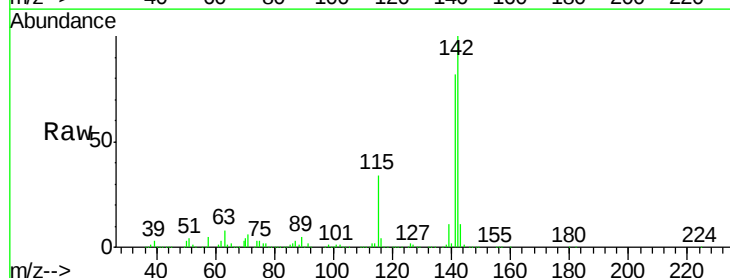
Tgt Ion:142 Resp: 1428351

Ion Ratio Lower Upper

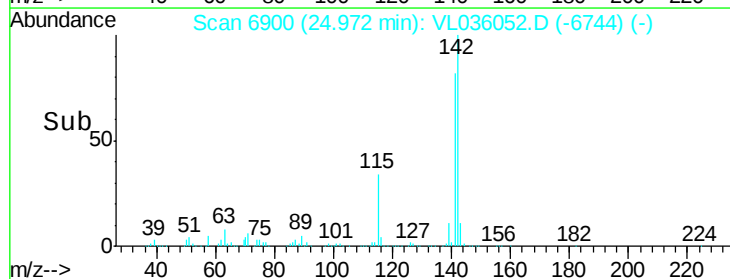
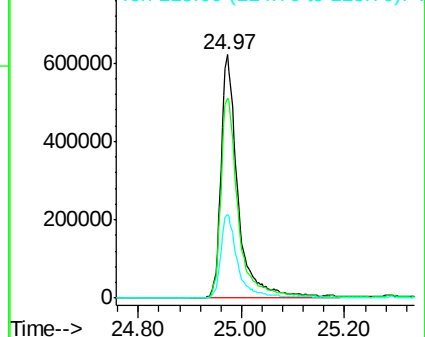
142 100

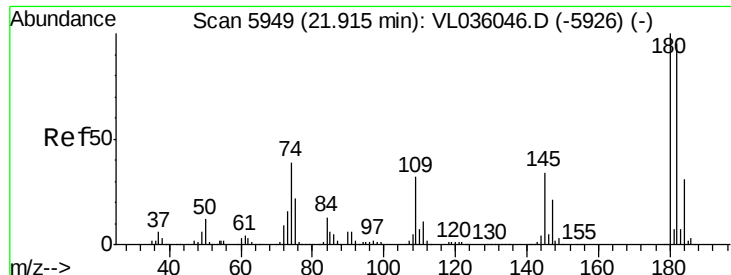
141 84.8 68.6 103.0

115 35.2 27.9 41.9



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: 12.843 ppbv
 RT: 21.92 min Scan# 5952
 Delta R.T. 0.01 min
 Lab File: VL036052.D
 Acq: 3 Dec 2020 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:180 Resp: 2533237
 Ion Ratio Lower Upper
 180 100
 182 97.2 78.5 117.7
 184 31.3 25.0 37.6

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:26 PM

