

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073120\
 Data File : VL035294.D
 Acq On : 31 Jul 2020 00:28
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/3/2020 12:36:32 PM

Quant Time: Jul 31 06:15:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1228585	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2954124	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2979825	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	2288620	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1456891	9.928	ppbv 99
3) Chlorodifluoromethane	2.95	51	1289426	9.481	ppbv 99
4) Chloromethane	3.11	50	726039	9.487	ppbv 100
5) Vinyl Chloride	3.22	62	753487	9.452	ppbv 99
6) Bromomethane	3.45	94	466359	9.471	ppbv 95
7) Chloroethane	3.53	64	289186	10.050	ppbv 99
8) Dichlorotetrafluoroethane	3.15	85	1798712	9.661	ppbv 100
9) Propene	2.97	41	488717	10.309	ppbv 99
10) Heptane	8.15	43	1433765	11.173	ppbv 100
11) Trichlorofluoromethane	3.93	101	1932637	9.792	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1380302	9.861	ppbv 100
13) Ethanol	3.58	45	114070	5.912	ppbv 94
14) Bromoethene	3.72	108	580521	10.163	ppbv 98
15) Acetone	3.83	43	1433064	8.745	ppbv 99
16) 1,3-Butadiene	3.30	39	655554	10.255	ppbv 98
17) tert-Butyl alcohol	4.28	59	1570442	9.929	ppbv 99
18) 1,1-Dichloroethene	4.27	96	633986	10.201	ppbv 86
19) Isopropyl Alcohol	3.95	45	1004595	9.295	ppbv 100
20) Methylene Chloride	4.33	84	587066	7.870	ppbv 96
21) Allyl Chloride	4.39	41	973876	10.435	ppbv 100
22) trans-1,2-Dichloroethene	4.88	96	605966	10.147	ppbv 96
23) Vinyl Acetate	5.07	43	1759344	10.684	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1516973	9.878	ppbv 99
25) Ethyl Acetate	5.68	43	2578165	10.074	ppbv 99
26) Hexane	5.68	57	1175952	10.186	ppbv 99
27) Carbon Disulfide	4.54	76	1626264	10.426	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	1761051	10.670	ppbv 99
29) Chloroform	5.75	83	1876314	9.690	ppbv 96
30) Cyclohexane	7.15	84	950475	11.518	ppbv 99
31) cis-1,2-Dichloroethene	5.55	61	1134851	11.276	ppbv 96
32) 1,1,1-Trichloroethane	6.52	97	1856986	9.370	ppbv 99
34) 2-Butanone	5.24	43	1530006	10.179	ppbv 100
35) Carbon Tetrachloride	7.03	117	1937232	9.794	ppbv 98
36) Benzene	6.91	78	2243384	10.927	ppbv 97
37) 1,2-Dichloroethane	6.32	62	1464955	10.207	ppbv 99
38) Trichloroethene	7.86	130	945835	11.116	ppbv 98
39) 1,2-Dichloropropane	7.64	63	890058	10.866	ppbv 97
40) 1,4-Dioxane	7.85	88	354534	10.991	ppbv 91
41) Tetrahydrofuran	6.05	42	820628	11.139	ppbv 99
42) Bromodichloromethane	7.82	83	2004948	10.467	ppbv 98
43) Methyl Methacrylate	8.03	69	1034683	11.632	ppbv 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073120\
 Data File : VL035294.D
 Acq On : 31 Jul 2020 00:28
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

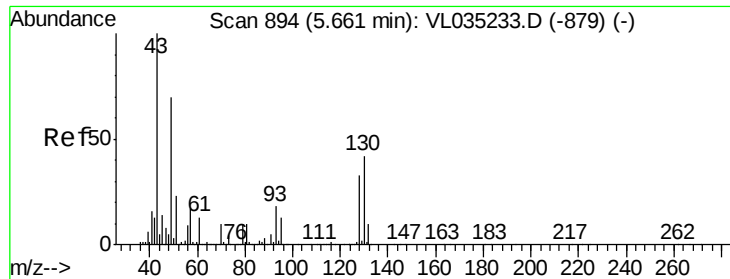
Manual Integrations
 APPROVED

MMDadoda
 8/3/2020 12:36:32 PM

Quant Time: Jul 31 06:15:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3954486	10.932	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1127739	12.582	ppbv	97
46) cis-1,3-Dichloropropene	8.73	75	1346496	12.332	ppbv	99
47) 1,1,2-Trichloroethane	9.51	97	978899	10.117	ppbv	96
48) Dibromochloromethane	10.34	129	1707279	11.203	ppbv	99
49) Bromoform	13.09	173	1523536	11.121	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2422353	11.121	ppbv	99
51) 2-Hexanone	10.17	43	1952587	11.821	ppbv #	99
52) Tetrachloroethene	11.27	164	853667	10.898	ppbv	97
53) Toluene	9.84	91	2674076	12.255	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1509823	10.792	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.17	131	1328300	9.695	ppbv #	94
57) Chlorobenzene	12.19	112	2165617	9.659	ppbv	99
58) Ethyl Benzene	12.75	91	3706899	11.746	ppbv	98
59) m/p-Xylene	13.04	91	6304791m	21.459	ppbv	
60) o-Xylene	13.74	91	3162534	10.788	ppbv	100
61) Styrene	13.57	104	2196035	12.342	ppbv	99
62) Isopropylbenzene	14.72	105	4671130	10.706	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	2325053	9.218	ppbv	99
64) n-propylbenzene	15.61	120	1276671	11.005	ppbv	98
65) tert-Butylbenzene	16.80	119	4197171	10.619	ppbv	99
66) Benzyl Chloride	17.05	91	1648096	10.646	ppbv	99
67) sec-Butylbenzene	17.35	105	5944676	10.293	ppbv	100
69) p-Isopropyltoluene	17.71	119	4997999	10.609	ppbv	100
70) n-Butylbenzene	18.61	91	5249762	10.300	ppbv	99
71) 2-Chlorotoluene	15.50	91	3649832	11.094	ppbv	99
72) 4-Ethyltoluene	15.89	105	3786295	11.476	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	3547283	11.024	ppbv	97
74) 1,2,4-Trimethylbenzene	16.82	105	3758546	10.034	ppbv	98
75) 1,3-Dichlorobenzene	17.06	146	2213439	9.152	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	2190246	10.012	ppbv	100
77) 1,2-Dichlorobenzene	17.88	146	2102651	9.706	ppbv	100
78) Hexachloro-1,3-Butadiene	23.44	225	1442452	8.135	ppbv	99
79) Naphthalene	22.27	128	2972954	9.981	ppbv	100
80) Naphthalene, 2-methyl-	25.02	142	815713	8.462	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	1703165	9.394	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1228585

Ion Ratio Lower Upper

49 100

128 48.4 24.0 72.0

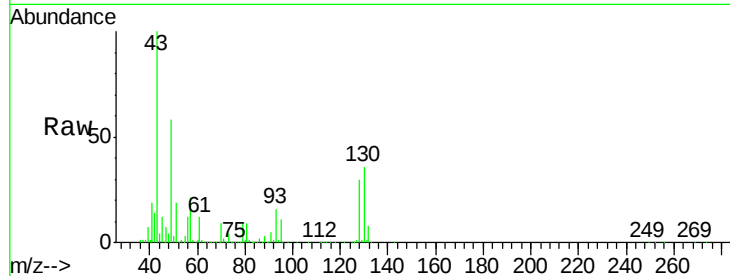
130 61.3 30.7 92.1

Manual Integrations

APPROVED

MMDadoda

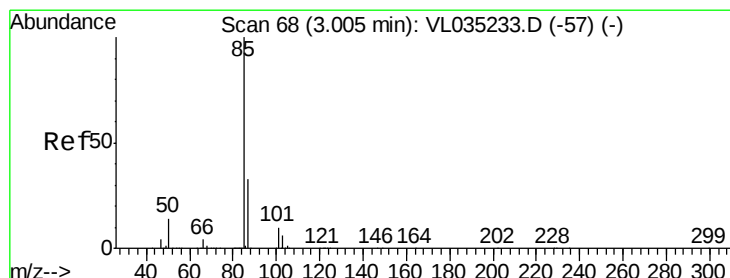
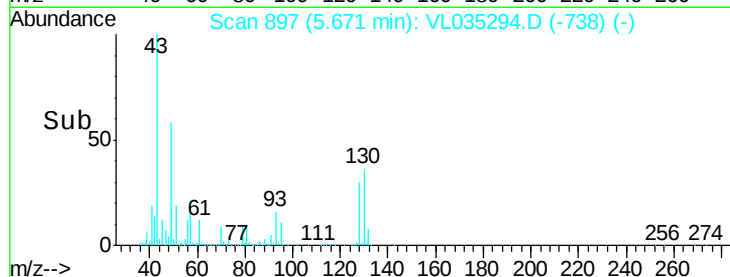
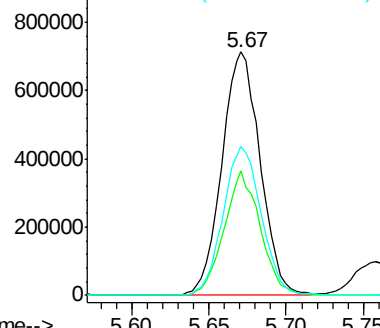
8/3/2020 12:36:32 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 9.928 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035294.D

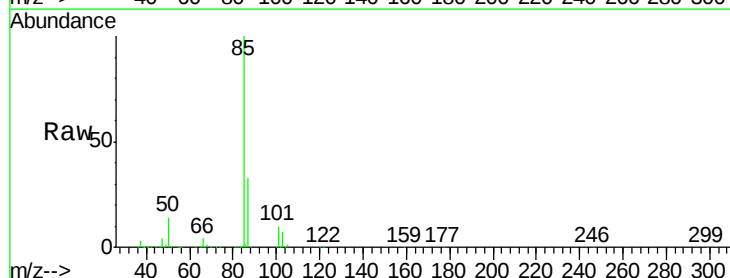
Acq: 31 Jul 2020 00:28

Tgt Ion: 85 Resp: 1456891

Ion Ratio Lower Upper

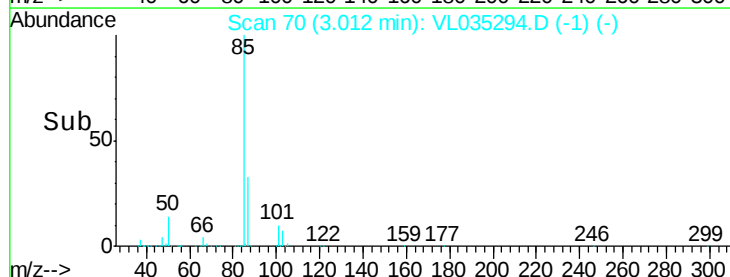
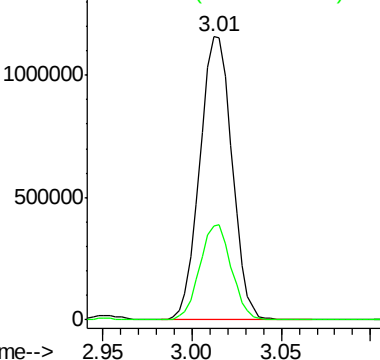
85 100

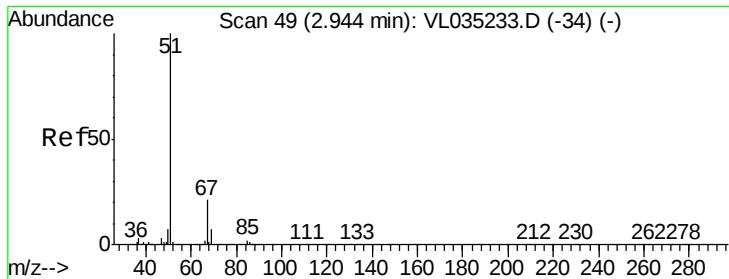
87 33.1 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.481 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1289426

Ion Ratio Lower Upper

51 100

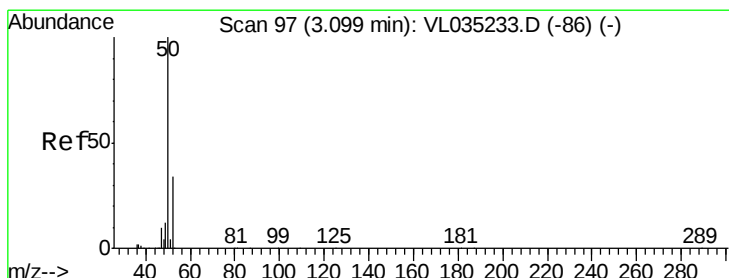
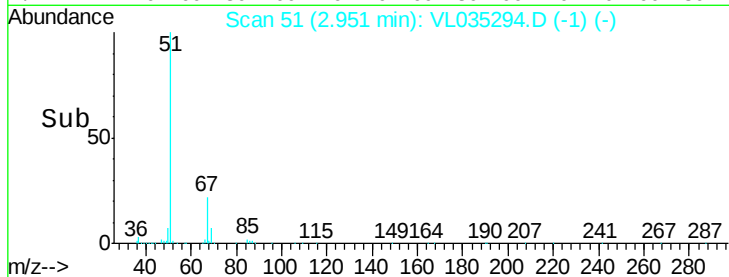
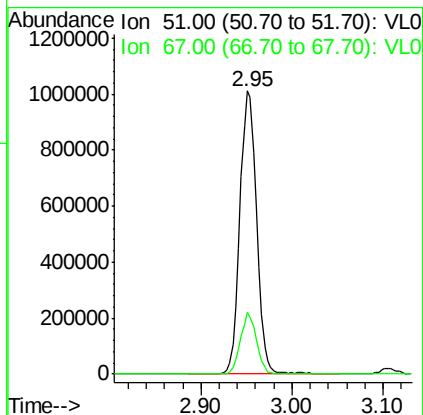
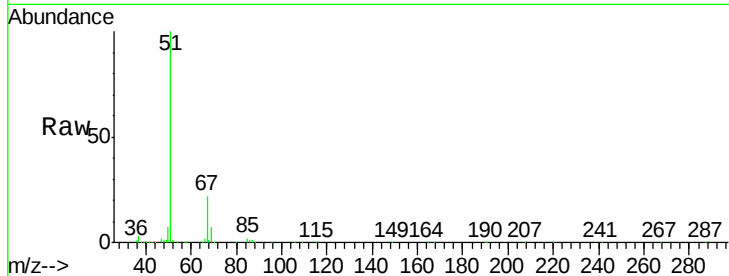
67 20.6 16.6 25.0

Manual Integrations

APPROVED

MMDadoda

8/3/2020 12:36:32 PM



#4

Chloromethane

Concen: 9.487 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.01 min

Lab File: VL035294.D

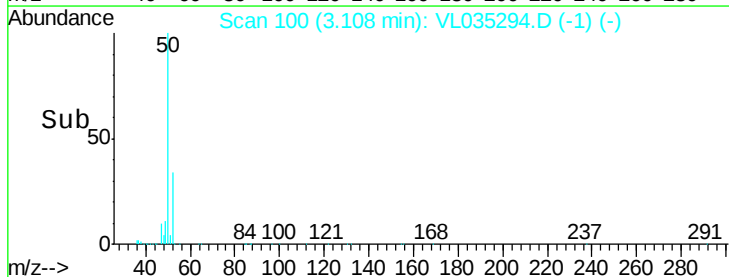
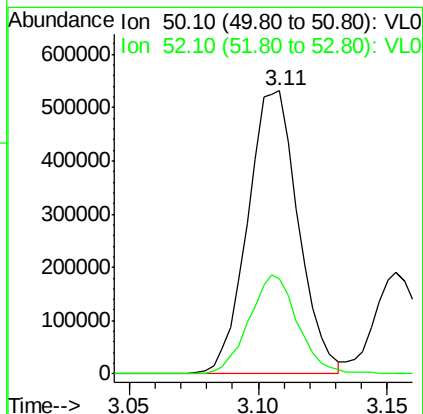
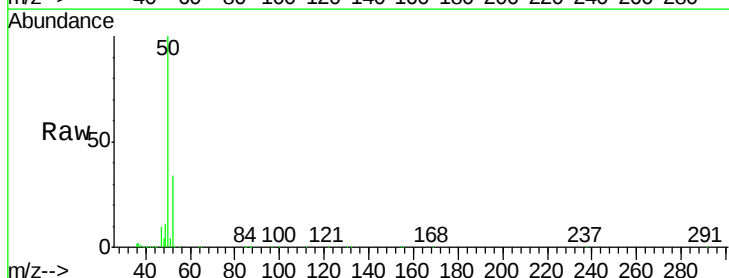
Acq: 31 Jul 2020 00:28

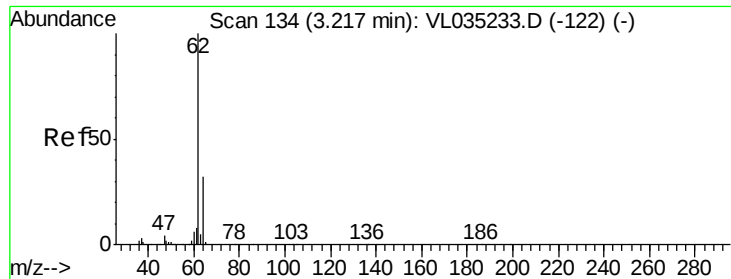
Tgt Ion: 50 Resp: 726039

Ion Ratio Lower Upper

50 100

52 33.6 27.1 40.7





#5

Vinyl Chloride

Concen: 9.452 ppbv

RT: 3.22 min Scan# 136

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 753487

Ion Ratio Lower Upper

62 100

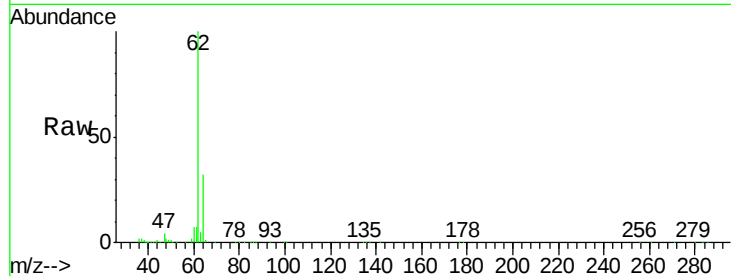
64 31.7 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

8/3/2020 12:36:32 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.22

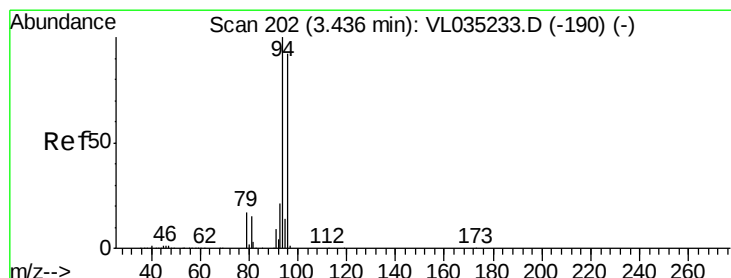
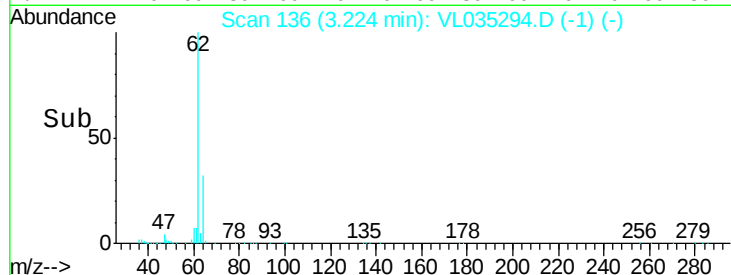
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 9.471 ppbv

RT: 3.45 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL035294.D

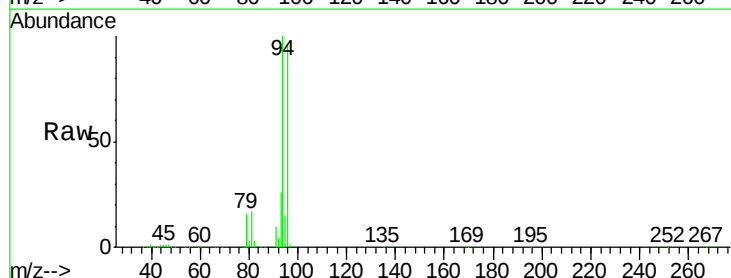
Acq: 31 Jul 2020 00:28

Tgt Ion: 94 Resp: 466359

Ion Ratio Lower Upper

94 100

96 96.1 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.45

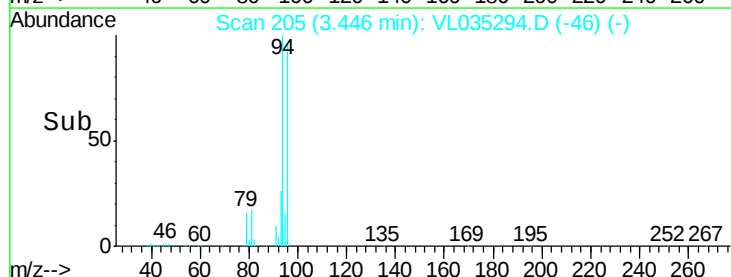
300000

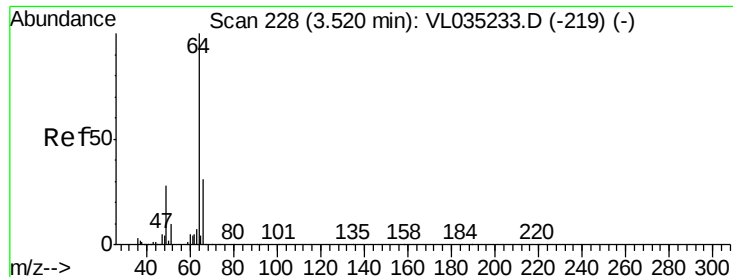
200000

100000

0

Time-->





#7

Chloroethane

Concen: 10.050 ppbv

RT: 3.53 min Scan# 230

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 289186

Ion Ratio Lower Upper

64 100

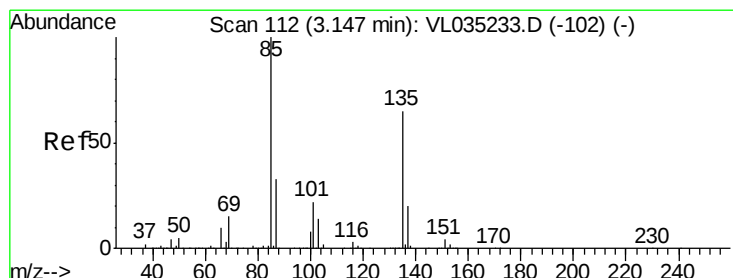
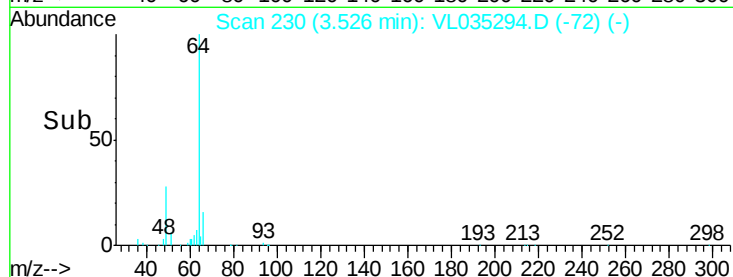
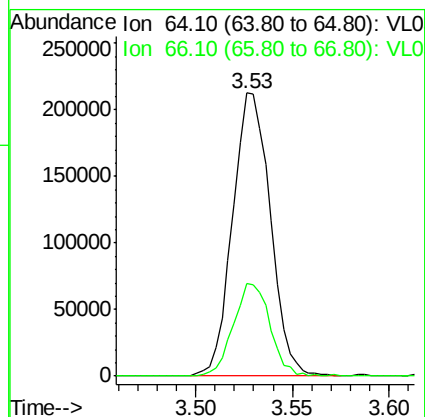
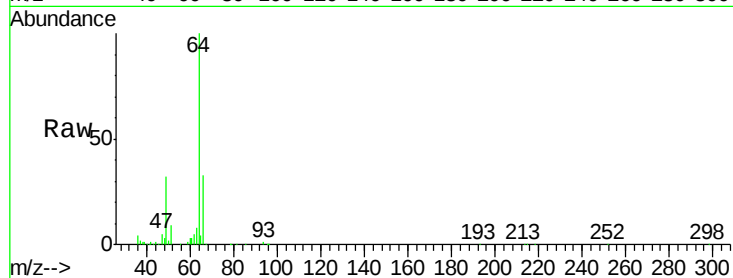
66 32.8 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

8/3/2020 12:36:32 PM



#8

Dichlorotetrafluoroethane

Concen: 9.661 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL035294.D

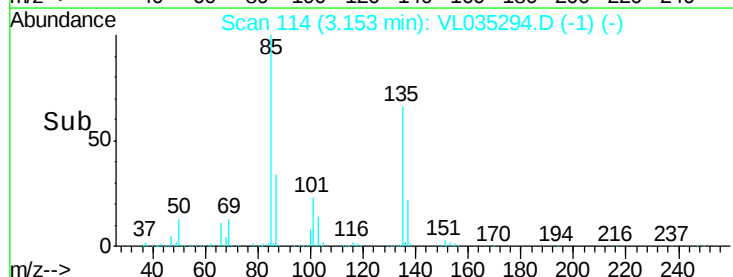
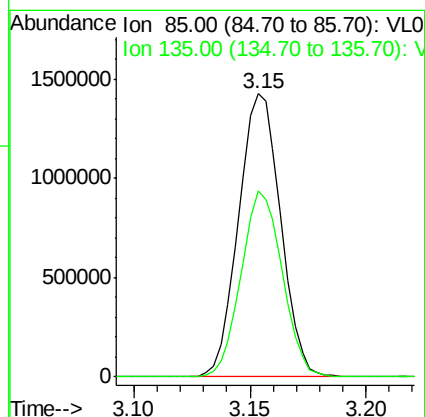
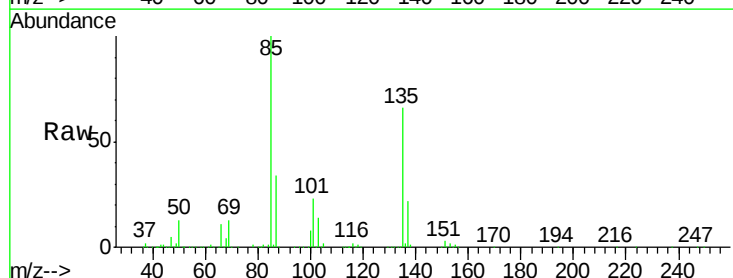
Acq: 31 Jul 2020 00:28

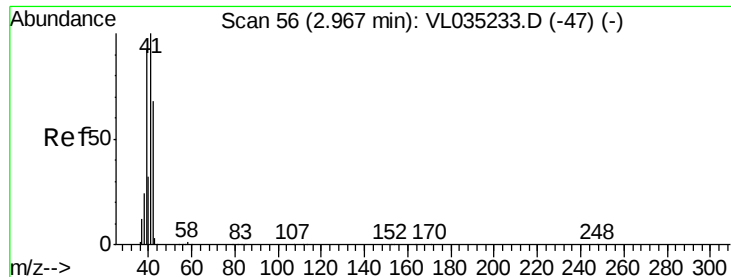
Tgt Ion: 85 Resp: 1798712

Ion Ratio Lower Upper

85 100

135 64.5 51.4 77.0





#9

Propene

Concen: 10.309 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 488717

Ion Ratio Lower Upper

41 100

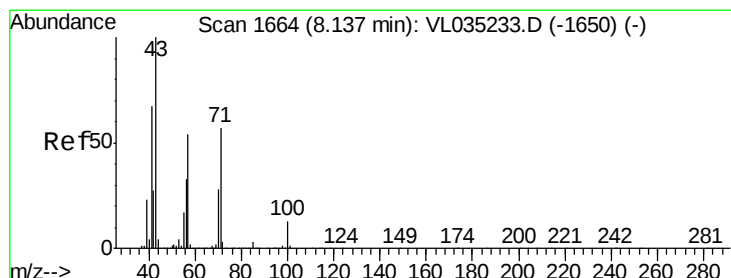
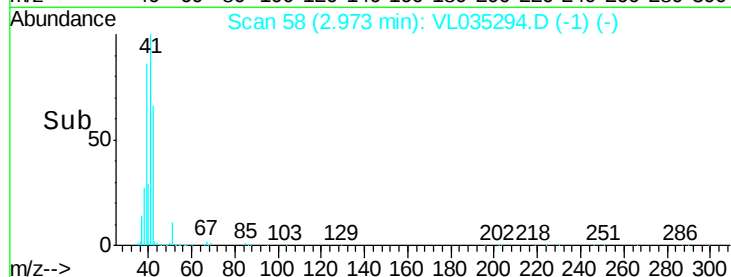
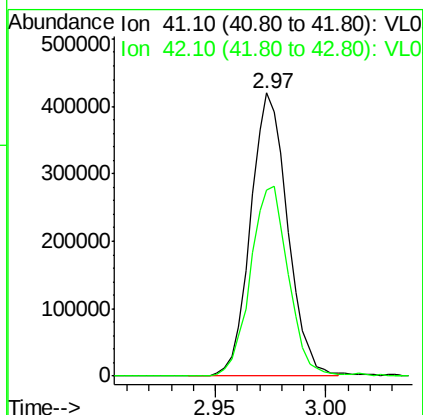
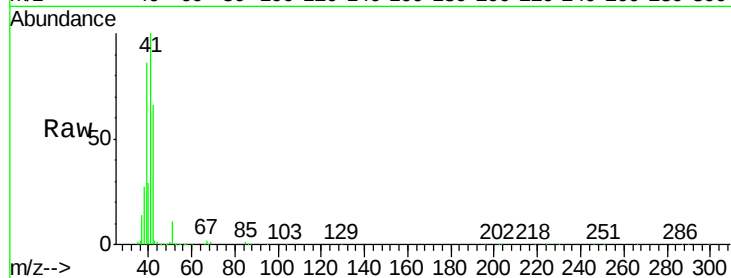
42 69.3 55.0 82.6

Manual Integrations

APPROVED

MMDadoda

8/3/2020 12:36:32 PM



#10

Heptane

Concen: 11.173 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.01 min

Lab File: VL035294.D

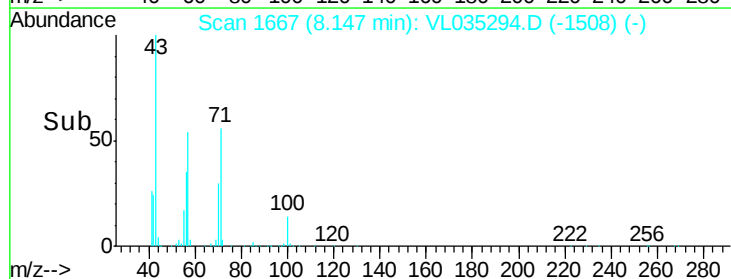
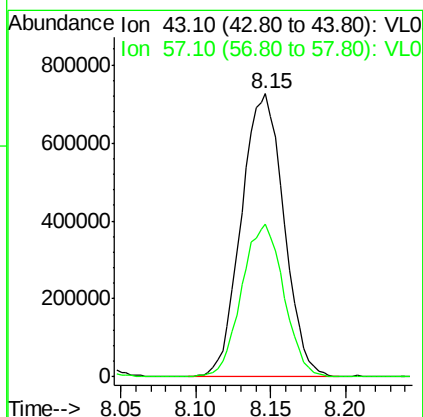
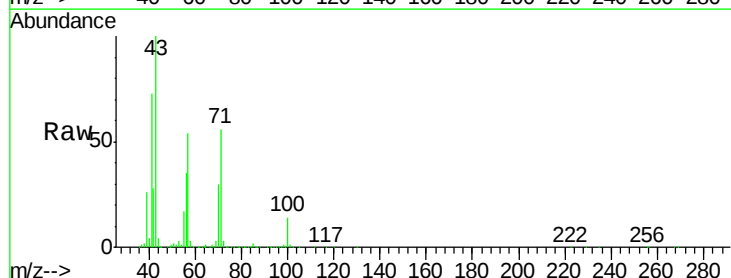
Acq: 31 Jul 2020 00:28

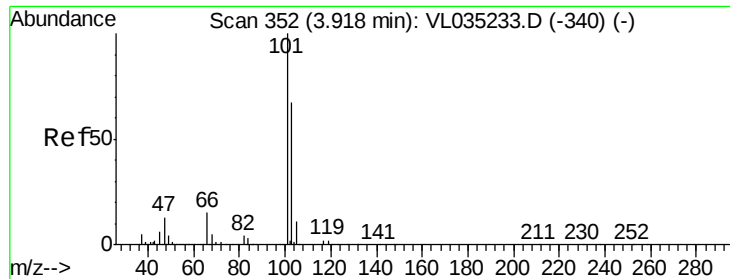
Tgt Ion: 43 Resp: 1433765

Ion Ratio Lower Upper

43 100

57 53.6 43.0 64.4





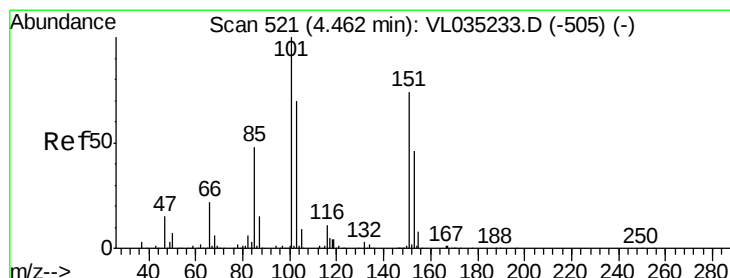
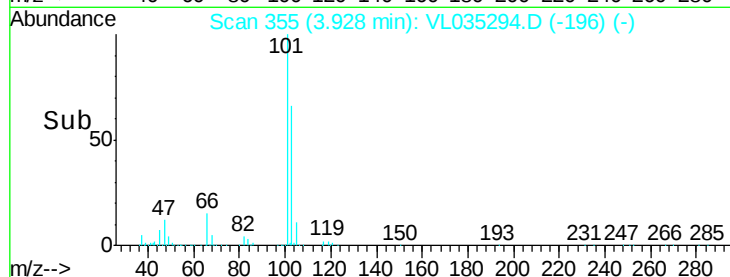
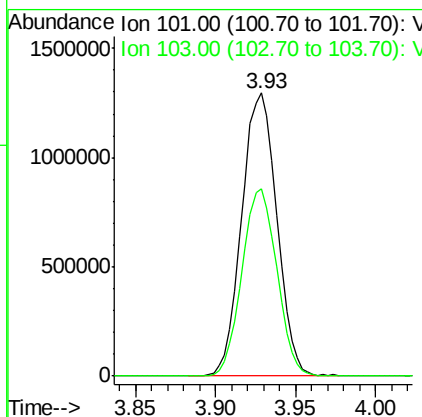
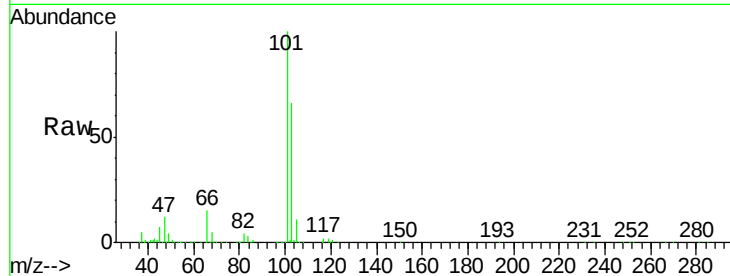
#11
 Trichlorofluoromethane
 Concen: 9.792 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1932637
 Ion Ratio Lower Upper
 101 100
 103 66.2 53.4 80.0

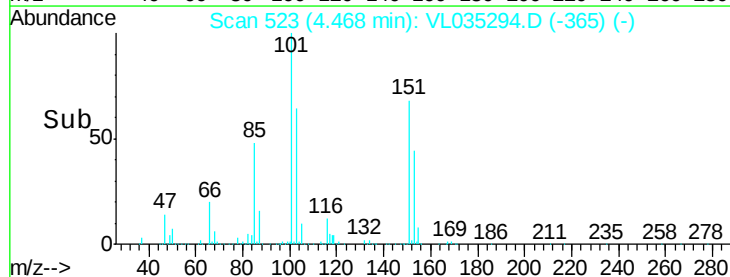
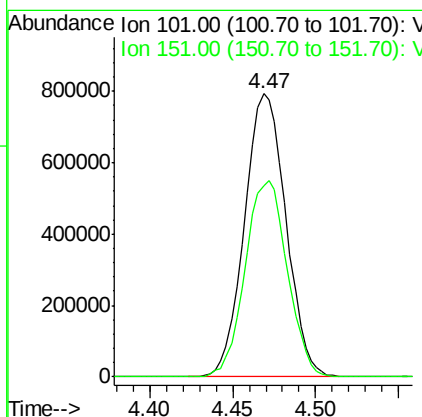
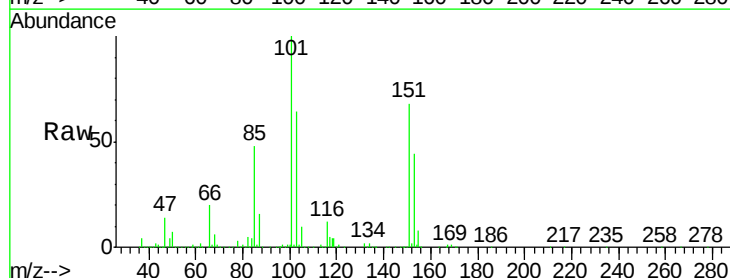
Manual Integrations
 APPROVED

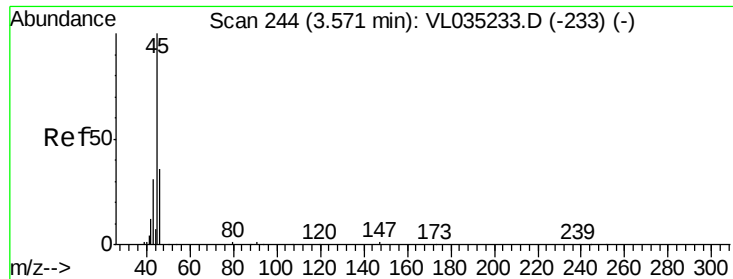
MMDadoda
 8/3/2020 12:36:32 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.861 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion:101 Resp: 1380302
 Ion Ratio Lower Upper
 101 100
 151 70.5 56.6 85.0





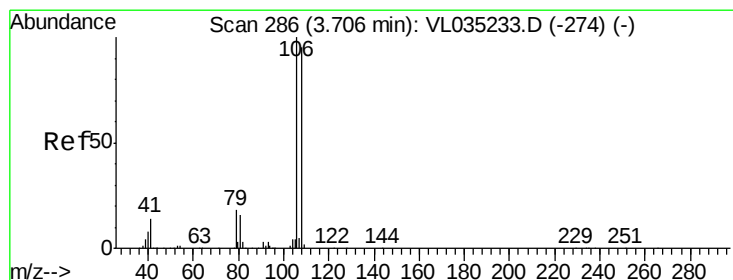
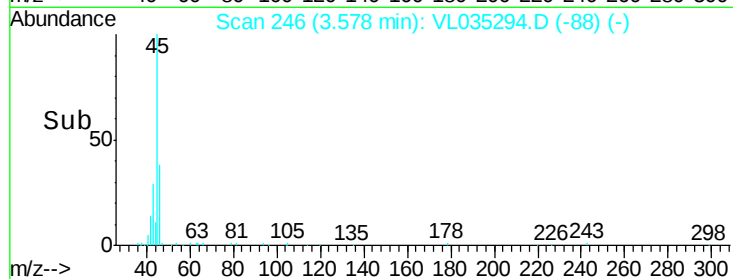
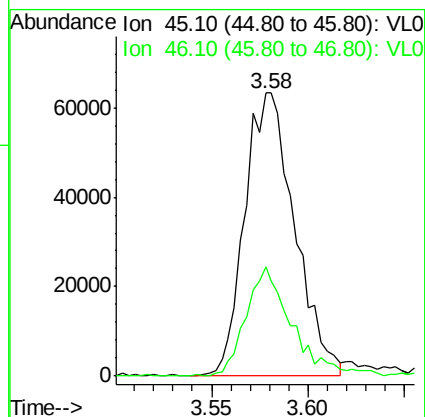
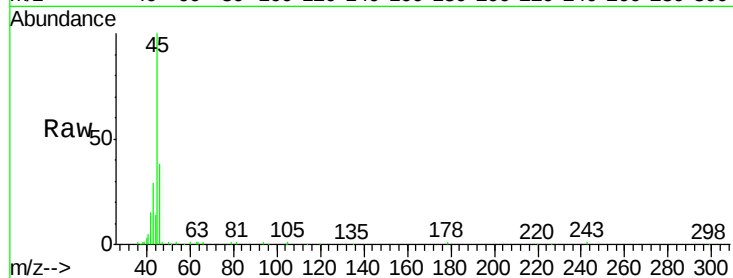
#13
Ethanol
Concen: 5.912 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 114070
Ion Ratio Lower Upper
45 100
46 36.2 15.8 63.4

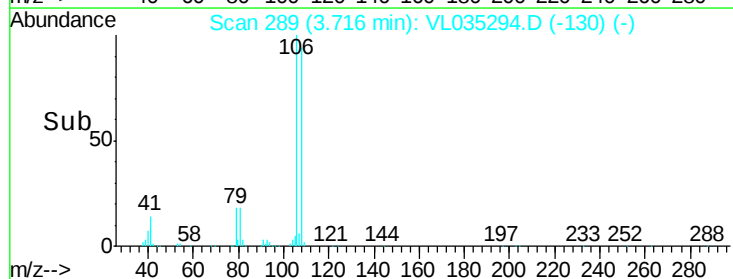
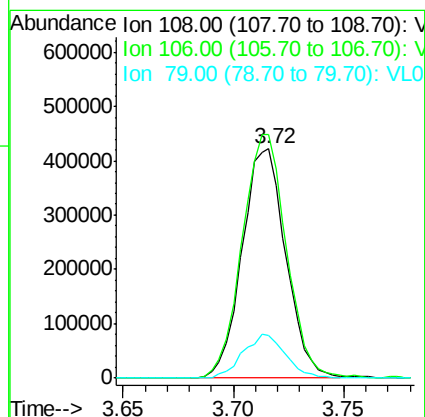
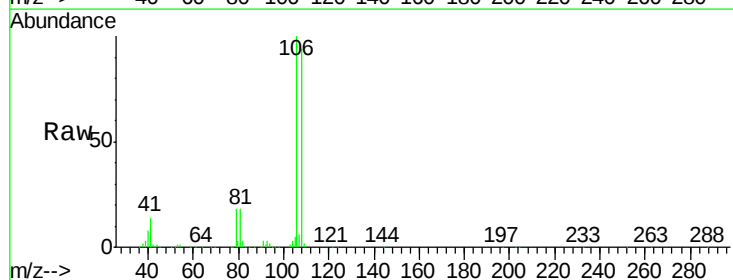
Manual Integrations
APPROVED

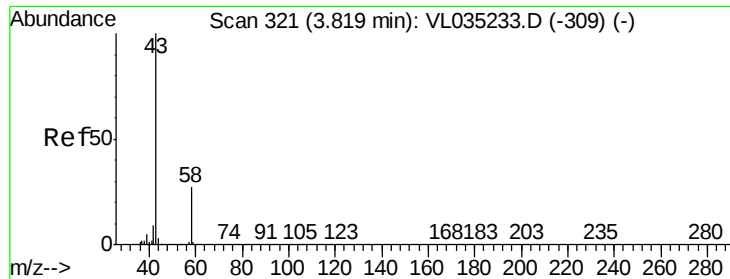
MMDadoda
8/3/2020 12:36:32 PM



#14
Bromoethene
Concen: 10.163 ppbv
RT: 3.72 min Scan# 289
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion: 108 Resp: 580521
Ion Ratio Lower Upper
108 100
106 108.8 85.0 127.6
79 19.0 15.4 23.2





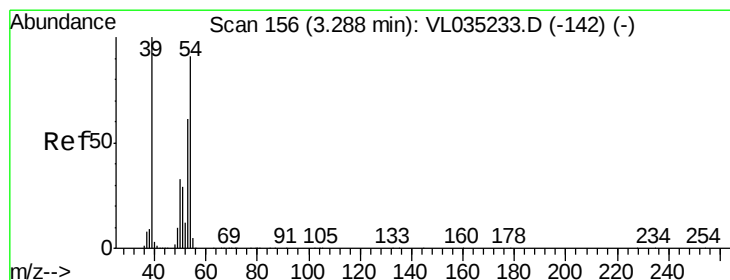
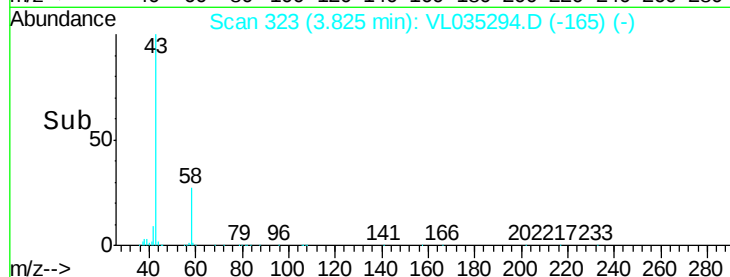
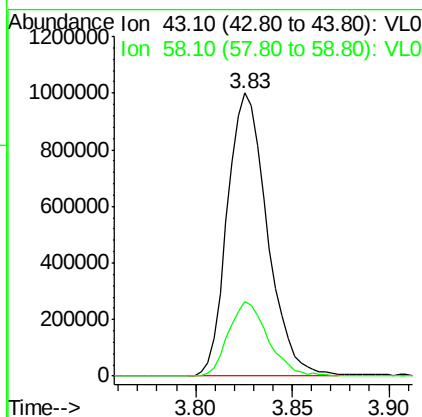
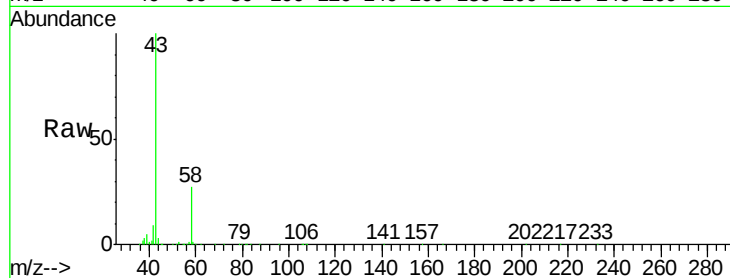
#15
Acetone
Concen: 8.745 ppbv
RT: 3.83 min Scan# 323
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1433064
Ion Ratio Lower Upper
43 100
58 26.5 21.8 32.6

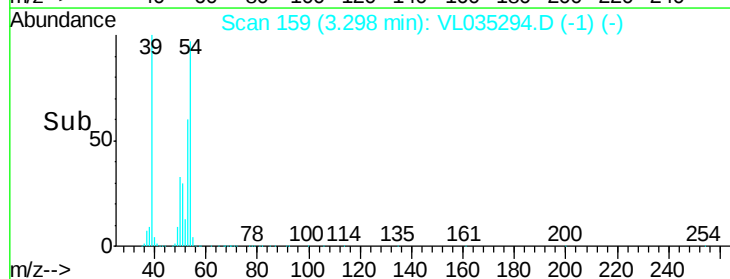
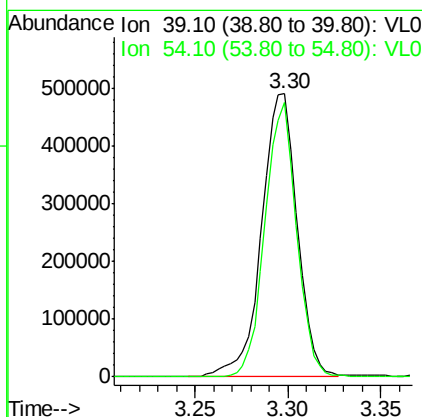
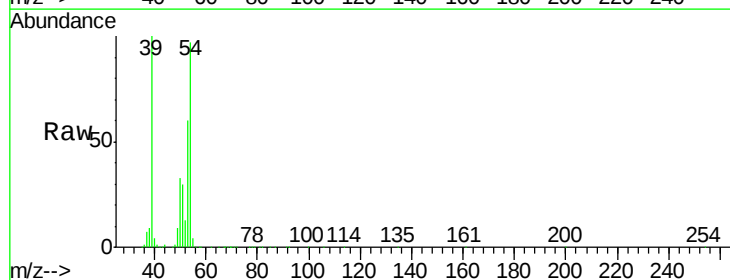
Manual Integrations
APPROVED

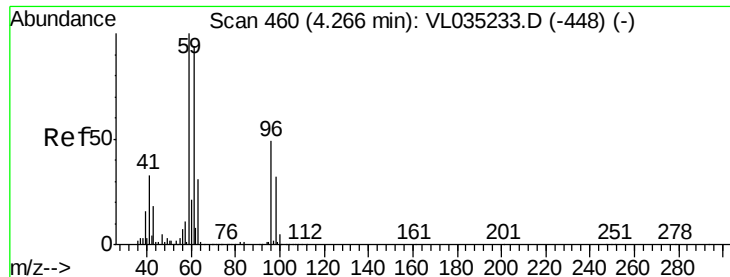
MMDadoda
8/3/2020 12:36:32 PM



#16
1,3-Butadiene
Concen: 10.255 ppbv
RT: 3.30 min Scan# 159
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion: 39 Resp: 655554
Ion Ratio Lower Upper
39 100
54 86.6 68.2 102.2





#17

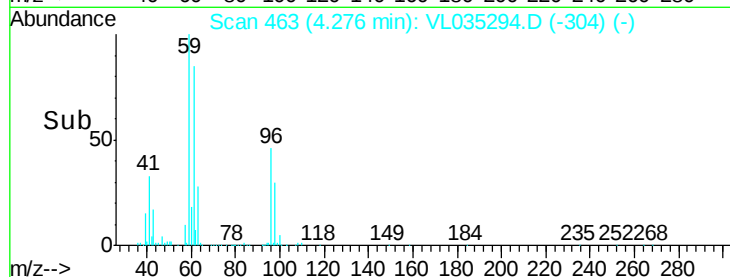
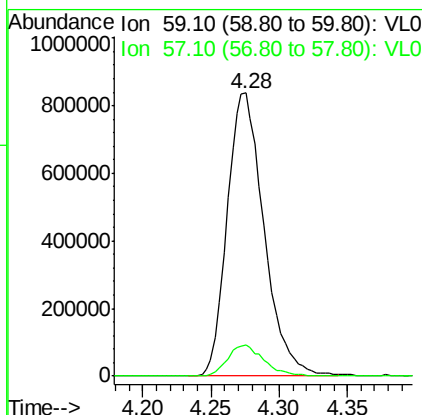
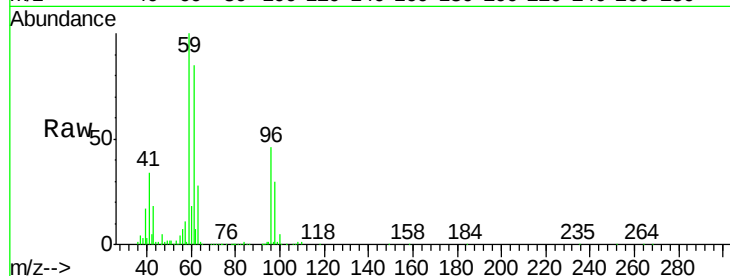
tert-Butyl alcohol
 Concen: 9.929 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 59 Resp: 1570442
 Ion Ratio Lower Upper
 59 100
 57 11.0 8.6 12.8

Manual Integrations
 APPROVED

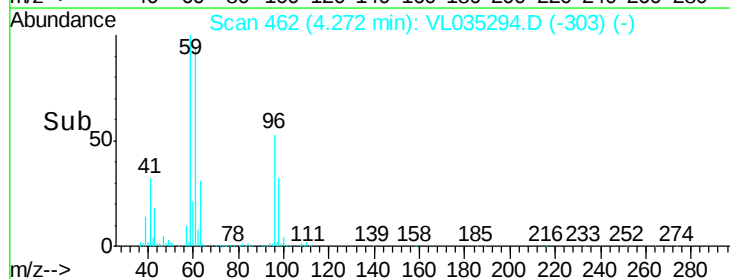
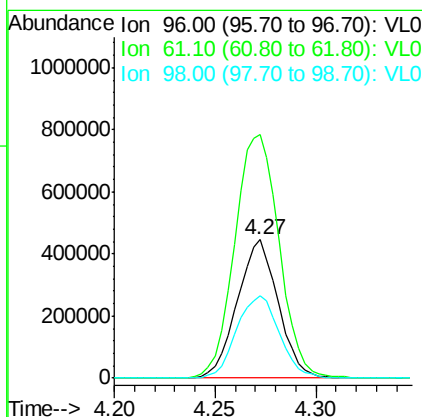
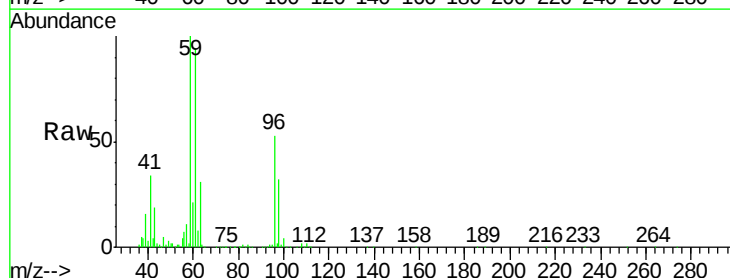
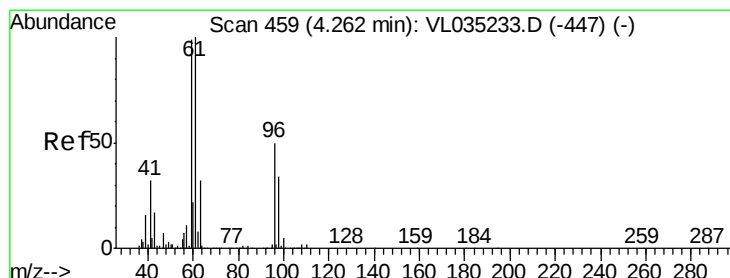
MMDadoda
 8/3/2020 12:36:32 PM

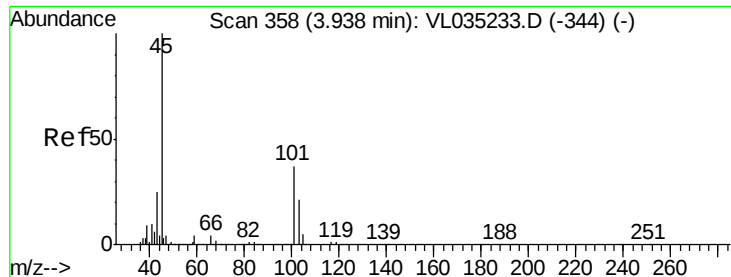


#18

1,1-Dichloroethene
 Concen: 10.201 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion: 96 Resp: 633986
 Ion Ratio Lower Upper
 96 100
 61 175.6 159.4 239.2
 98 59.3 53.9 80.9





#19

Isopropyl Alcohol

Concen: 9.295 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Tot Ion: 45 Resp: 1004595

Ion Ratio Lower Upper

45 100

58 2.4 1.9 2.9

Instrument :

MSVOA_L

ClientSampleId :

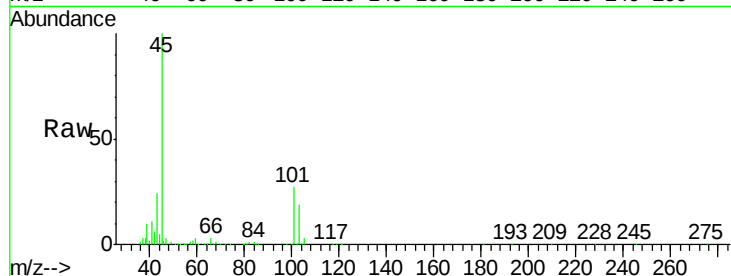
VSTDCCC010

Manual Integrations

APPROVED

MMDadoda

8/3/2020 12:36:32 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

600000

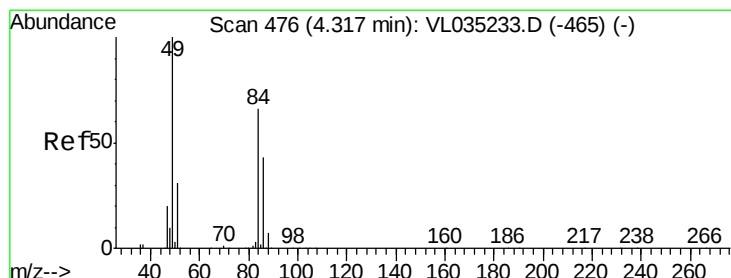
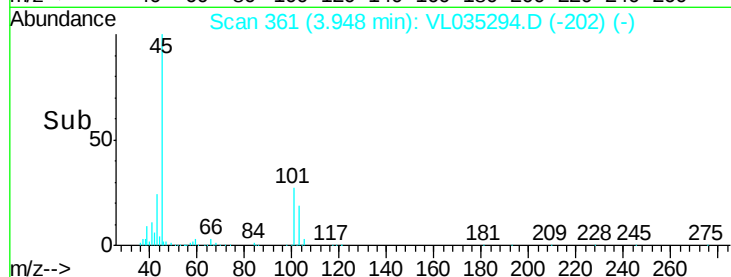
400000

200000

0

Time-->

3.90 3.95 4.00



#20

Methylene Chloride

Concen: 7.870 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Tgt Ion: 84 Resp: 587066

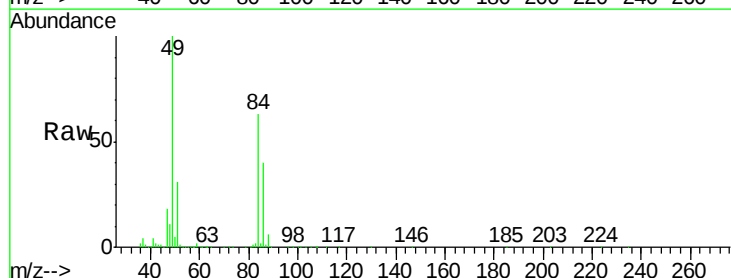
Ion Ratio Lower Upper

84 100

49 159.2 121.0 181.4

51 48.9 37.7 56.5

86 64.3 52.2 78.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

600000

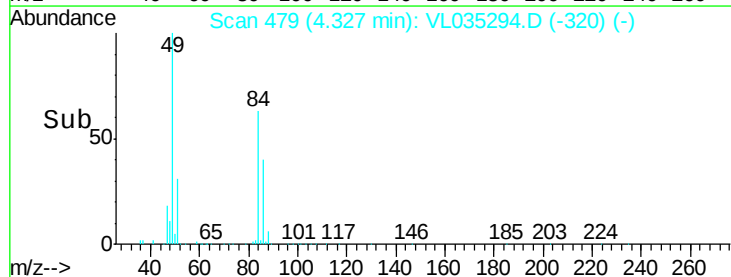
400000

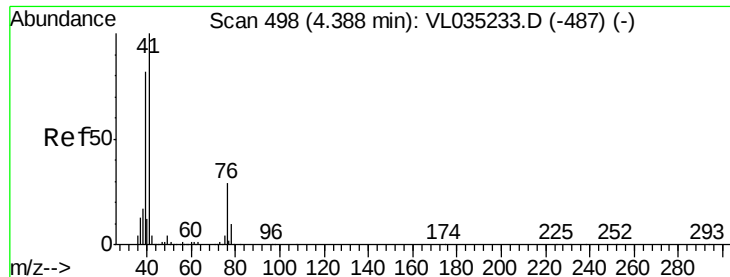
200000

0

Time-->

4.30 4.33 4.35





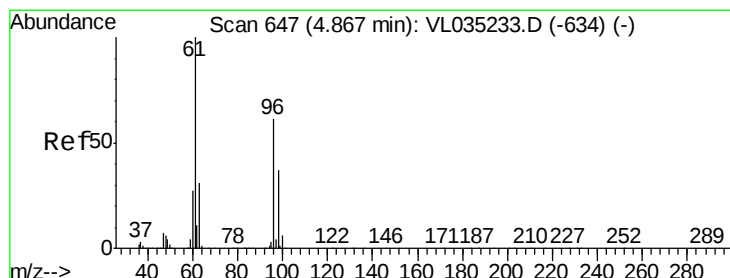
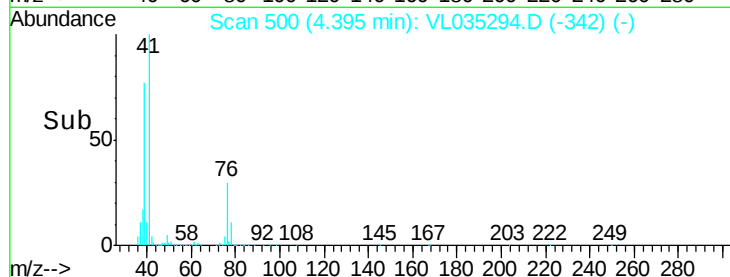
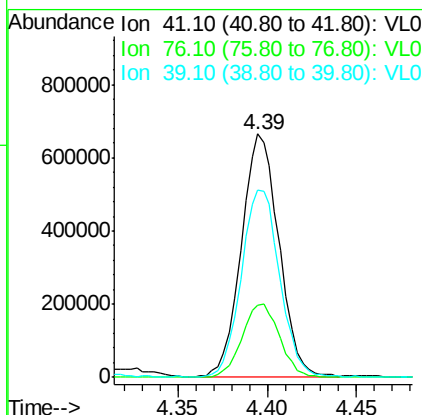
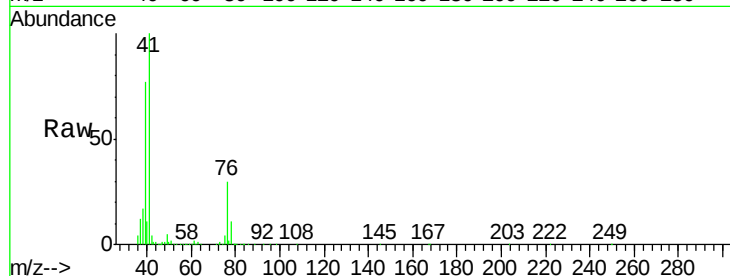
#21
Allvl Chloride
Concen: 10.435 ppbv
RT: 4.39 min Scan# 500
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.2	24.4	36.6
39	79.9	63.8	95.8

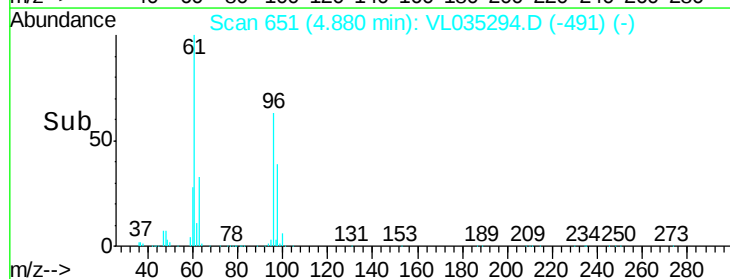
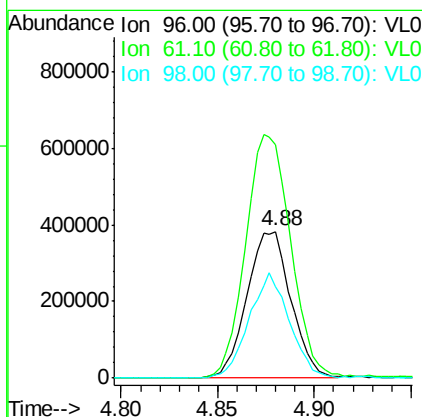
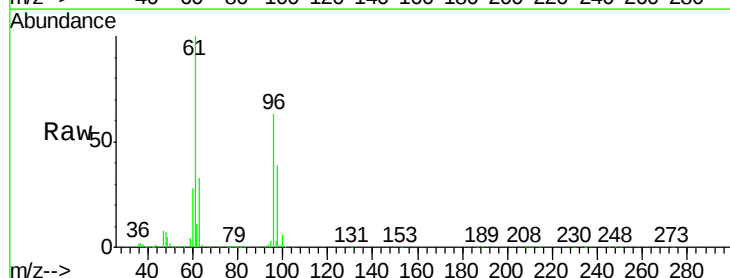
Manual Integrations
APPROVED

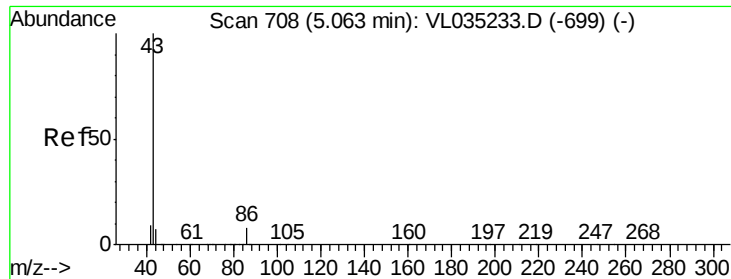
MMDadoda
8/3/2020 12:36:32 PM



#22
trans-1,2-Dichloroethene
Concen: 10.147 ppbv
RT: 4.88 min Scan# 651
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.5	131.6	197.4
98	62.2	49.0	73.4





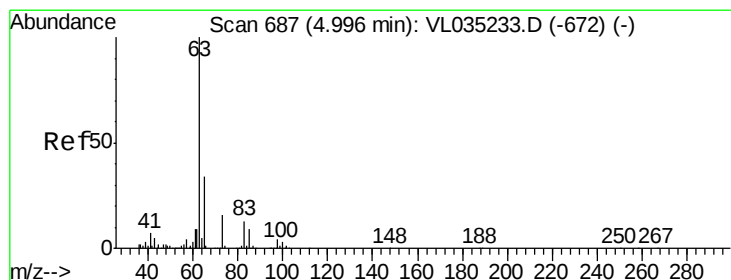
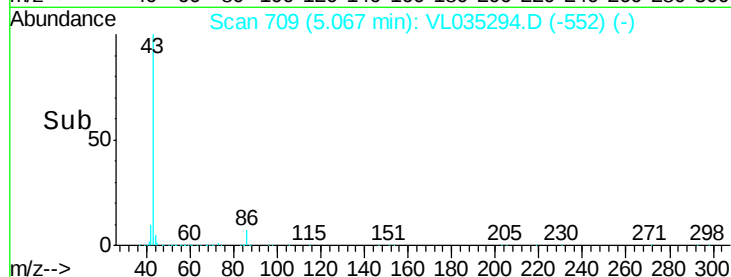
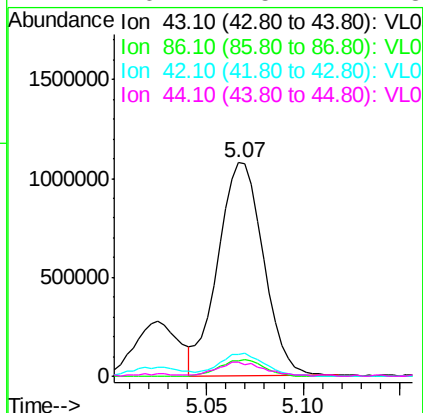
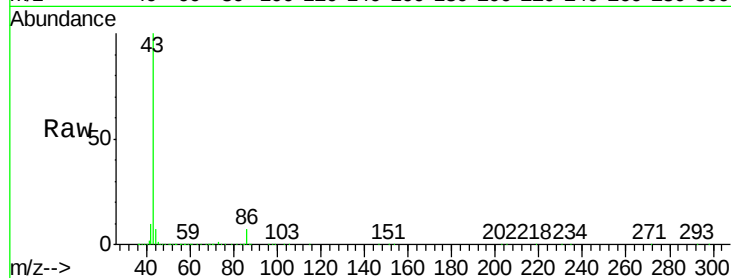
#23
 Vinyl Acetate
 Concen: 10.684 ppbv
 RT: 5.07 min Scan# 709
 Delta R.T. 0.00 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	43	Resp	1759344
Ion	Ratio	Lower	Upper
43	100		
86	7.5	6.2	9.2
42	10.2	8.0	12.0
44	6.4	5.2	7.8

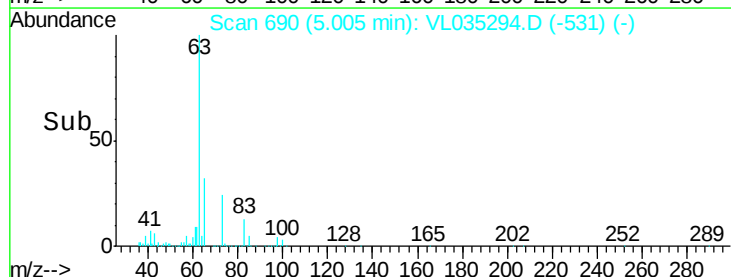
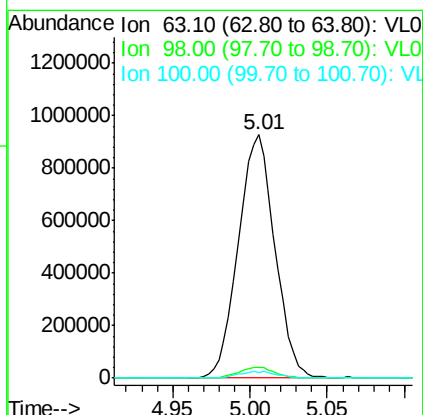
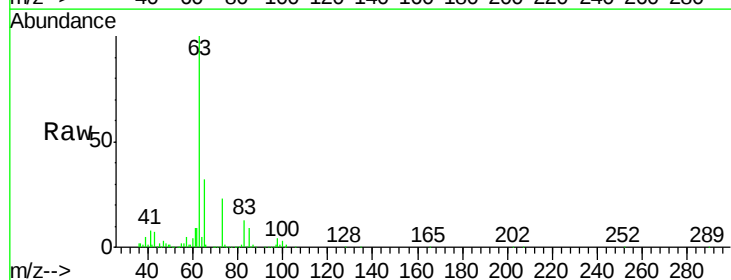
Manual Integrations
 APPROVED

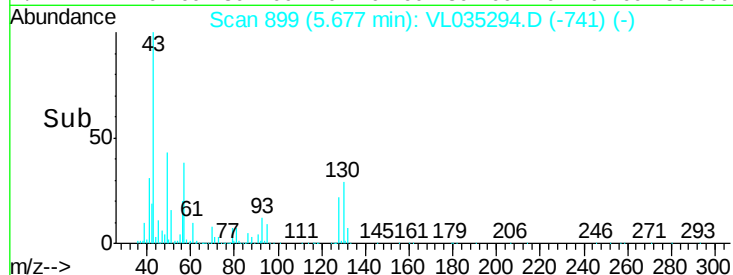
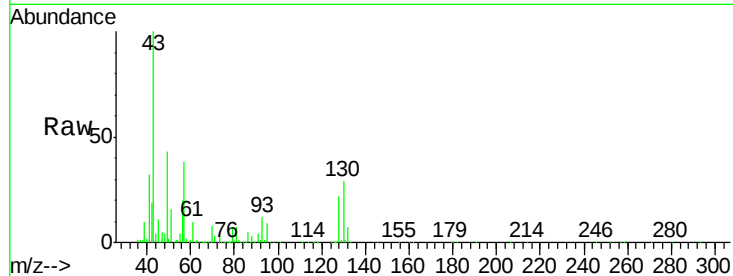
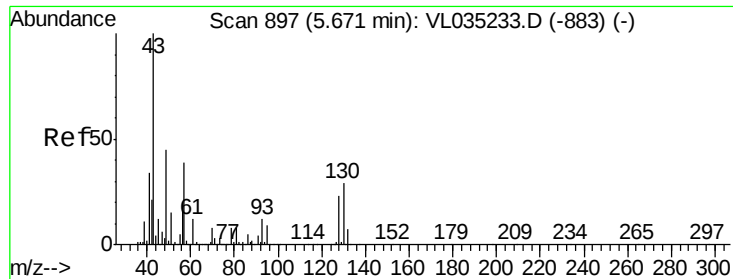
MMDadoda
 8/3/2020 12:36:32 PM



#24
 1,1-Dichloroethane
 Concen: 9.878 ppbv
 RT: 5.01 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

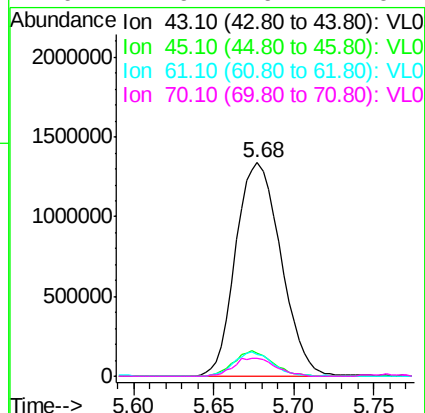
Tgt Ion	63	Resp	1516973
Ion	Ratio	Lower	Upper
63	100		
98	4.3	1.9	5.7
100	2.5	1.4	4.2





#25
Ethyl Acetate
Concen: 10.074 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

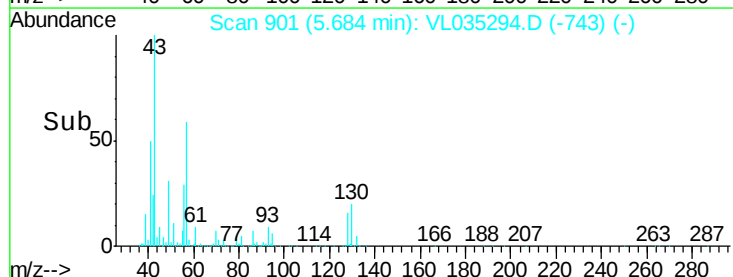
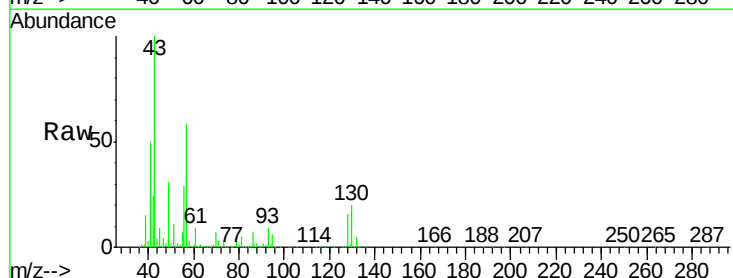
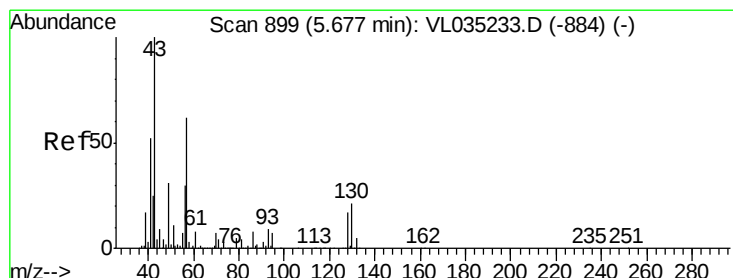
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.2	8.5	12.7	
61	9.9	8.1	12.1	
70	7.9	6.2	9.4	



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

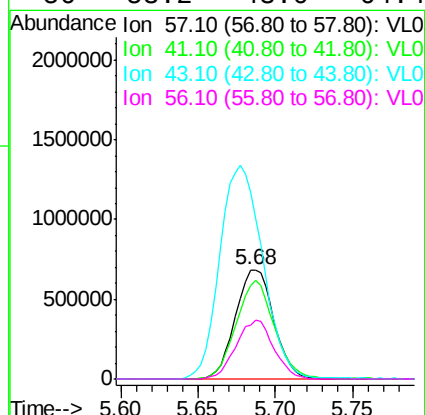
Manual Integrations
APPROVED

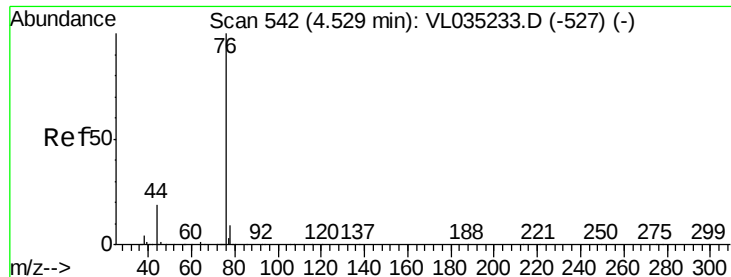
MMDadoda
8/3/2020 12:36:32 PM



#26
Hexane
Concen: 10.186 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	91.1	73.9	110.9	
43	220.3	177.6	266.4	
56	53.2	43.0	64.4	





#27

Carbon Disulfide

Concen: 10.426 ppbv

RT: 4.54 min Scan# 544

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1626264

Ion Ratio Lower Upper

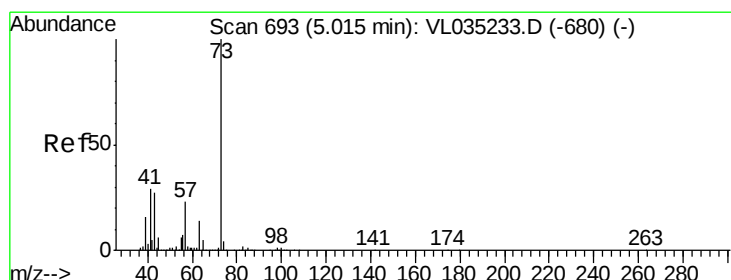
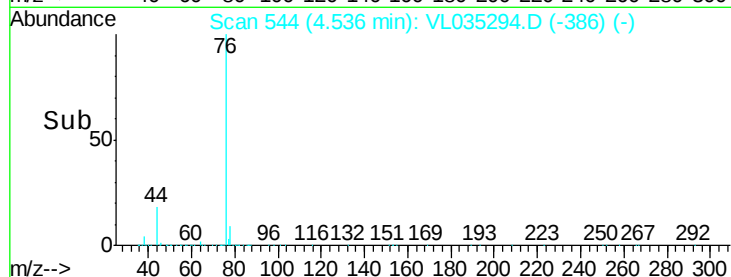
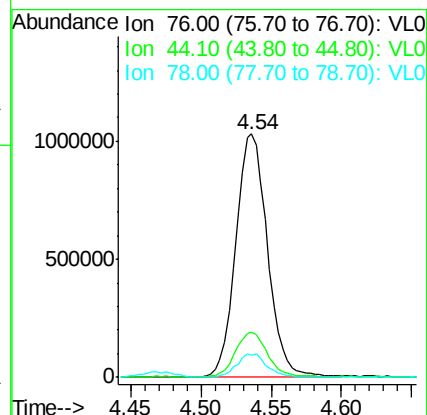
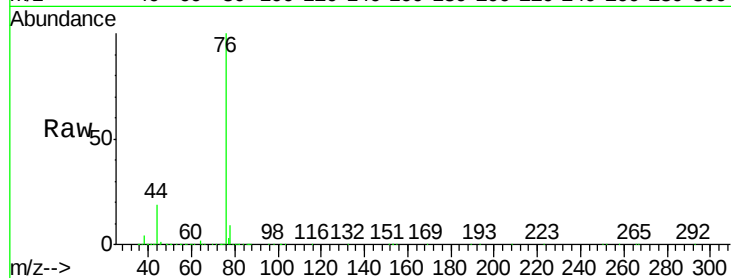
76 100

44 18.2 14.7 22.1

78 9.5 7.6 11.4

Manual Integrations
APPROVED

MMDadoda
8/3/2020 12:36:32 PM



#28

Methyl tert-Butyl Ether

Concen: 10.670 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL035294.D

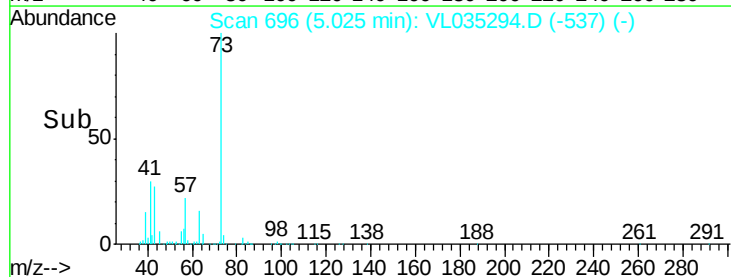
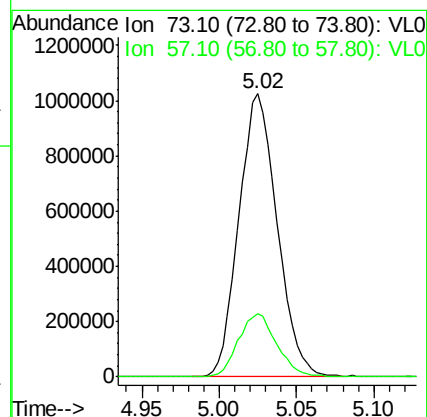
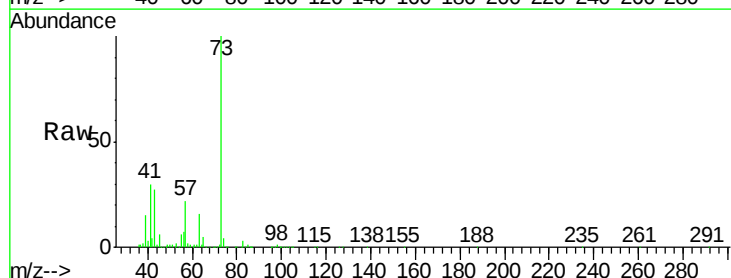
Acq: 31 Jul 2020 00:28

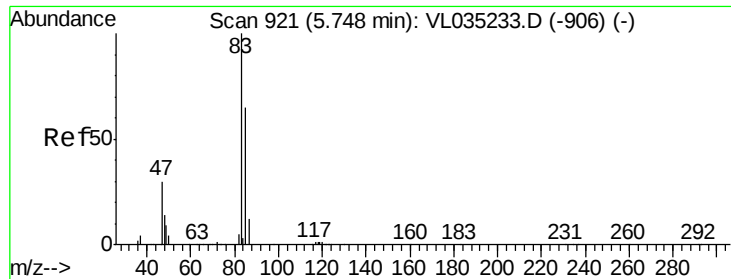
Tgt Ion: 73 Resp: 1761051

Ion Ratio Lower Upper

73 100

57 22.4 18.2 27.4





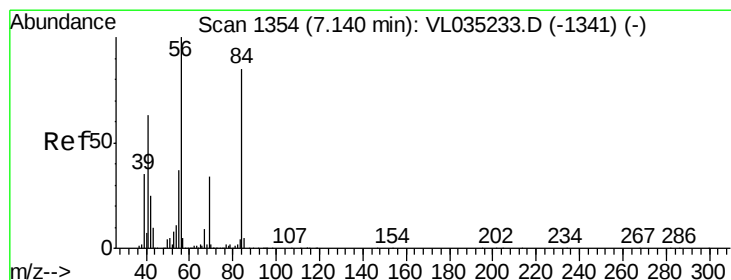
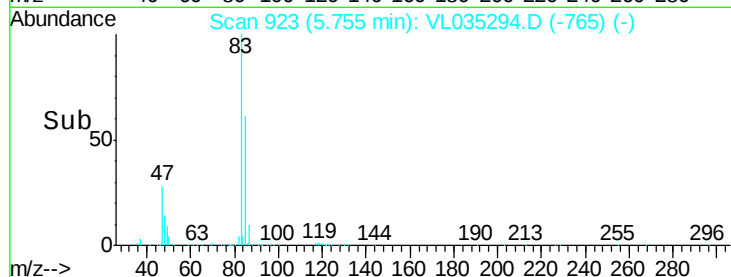
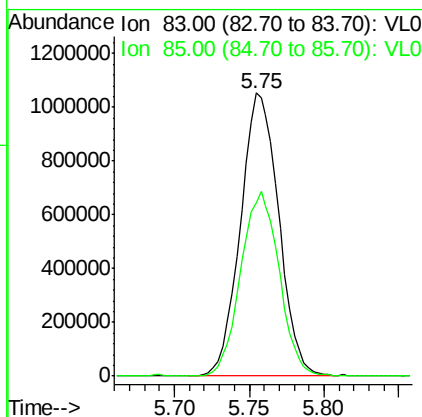
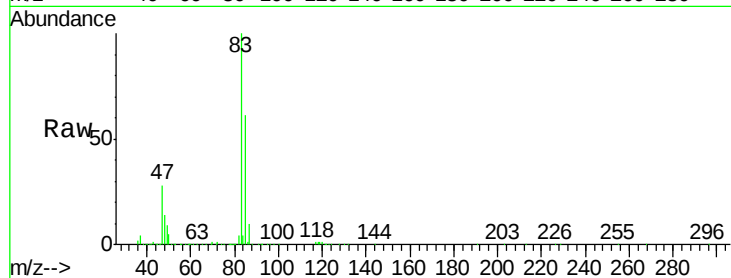
#29
Chloroform
Concen: 9.690 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1876314
Ion Ratio Lower Upper
83 100
85 61.3 51.7 77.5

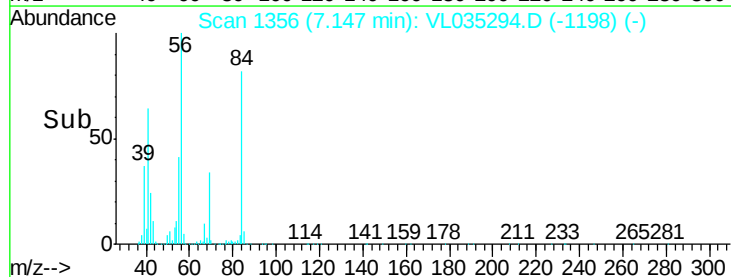
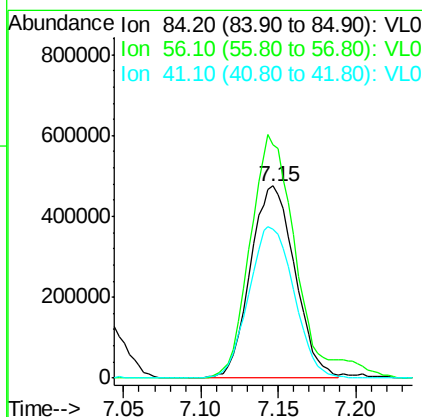
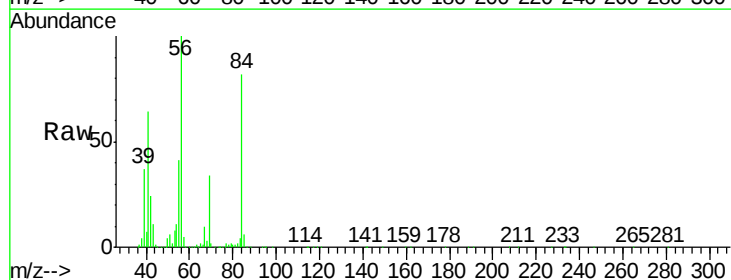
Manual Integrations
APPROVED

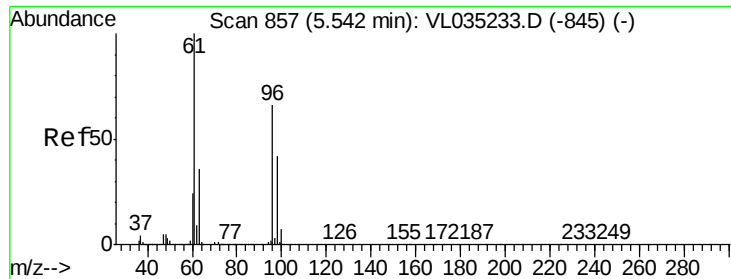
MMDadoda
8/3/2020 12:36:32 PM



#30
Cyclohexane
Concen: 11.518 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion: 84 Resp: 950475
Ion Ratio Lower Upper
84 100
56 131.6 104.2 156.2
41 80.5 63.7 95.5





#31

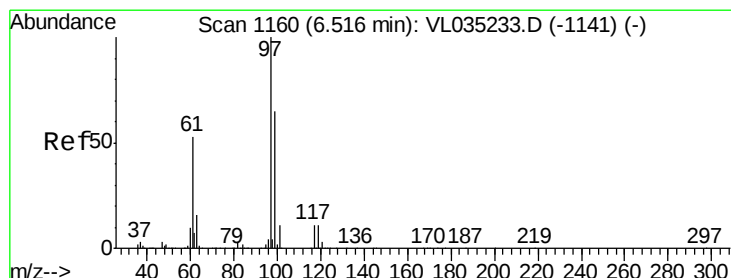
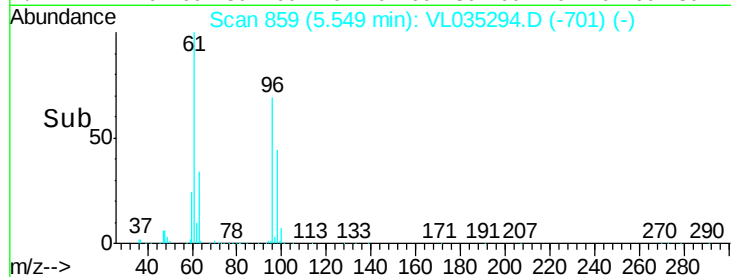
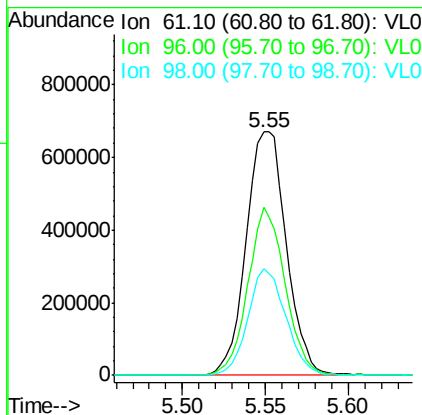
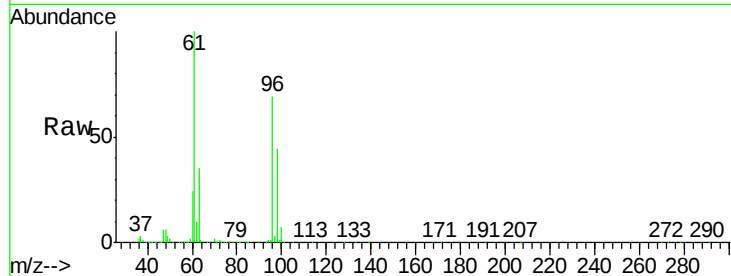
cis-1,2-Dichloroethene
 Concen: 11.276 ppbv
 RT: 5.55 min Scan# 859
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	69.2	52.6	78.8
98	43.7	33.7	50.5

Manual Integrations
 APPROVED

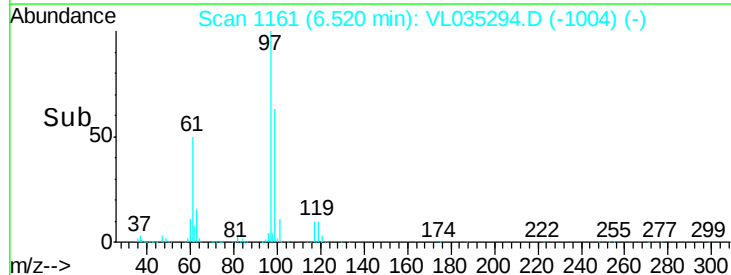
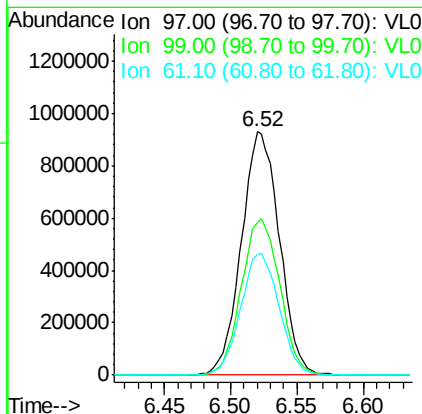
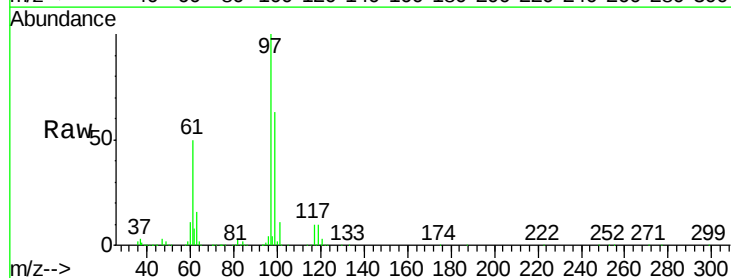
MMDadoda
 8/3/2020 12:36:32 PM

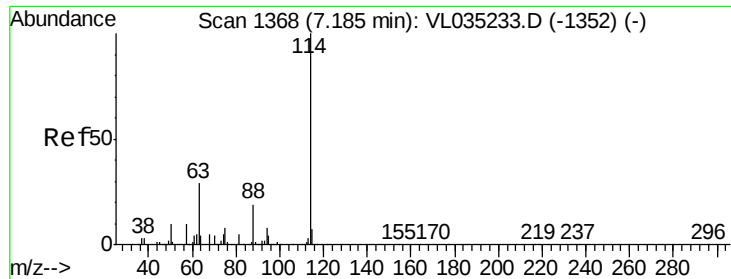


#32

1,1,1-Trichloroethane
 Concen: 9.370 ppbv
 RT: 6.52 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.4	77.0
61	50.7	40.4	60.6





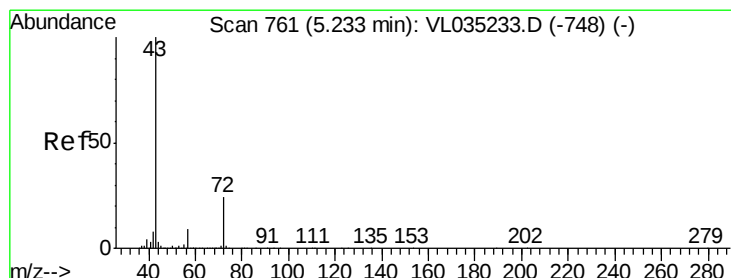
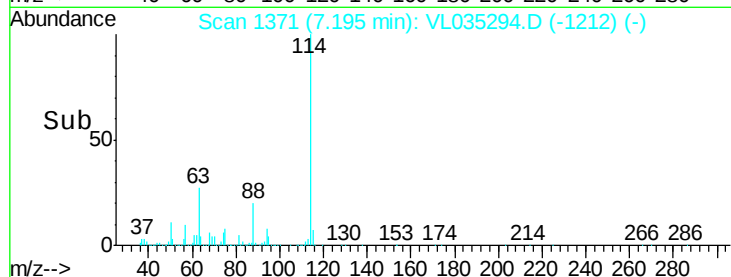
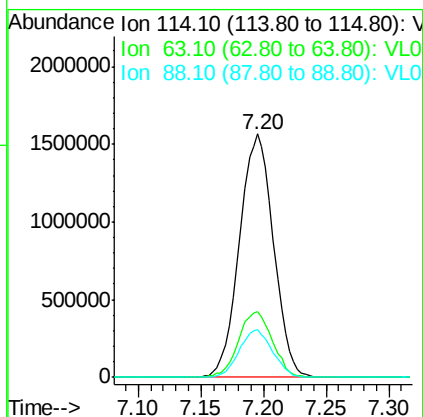
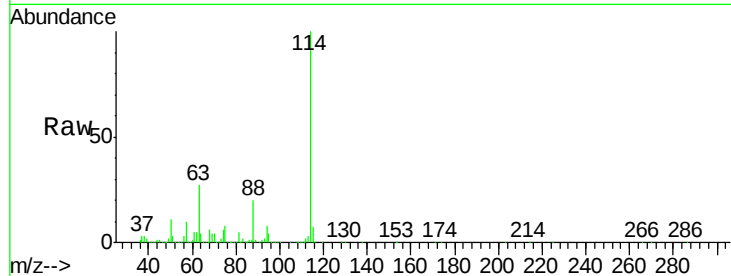
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.2	33.2
88	19.2	15.4	23.0

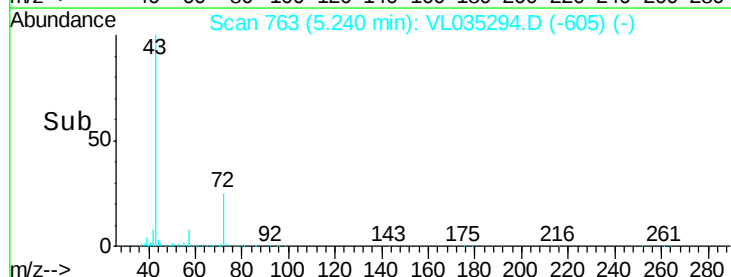
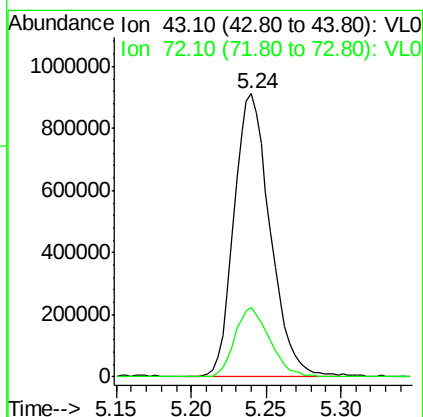
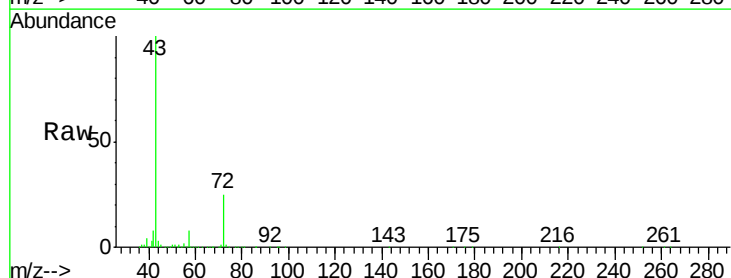
Manual Integrations
 APPROVED

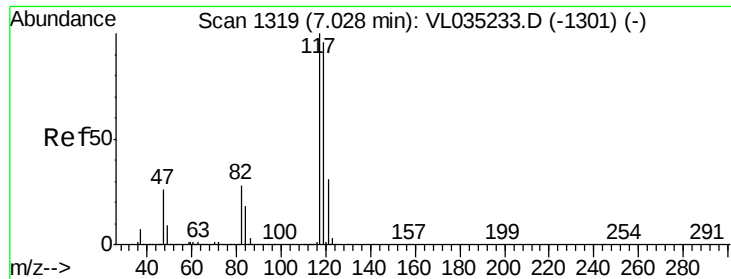
MMDadoda
 8/3/2020 12:36:32 PM



#34
 2-Butanone
 Concen: 10.179 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.9	19.2	28.8





#35

Carbon Tetrachloride

Concen: 9.794 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1937232

Ion Ratio Lower Upper

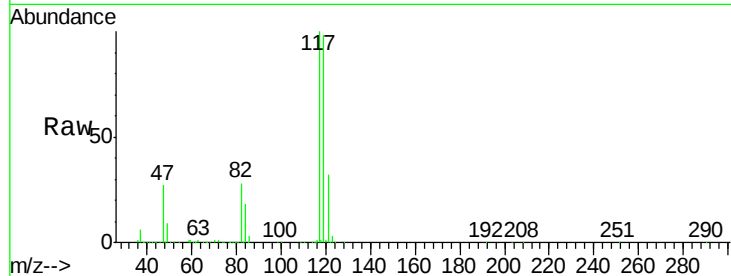
117 100

119 98.1 76.8 115.2

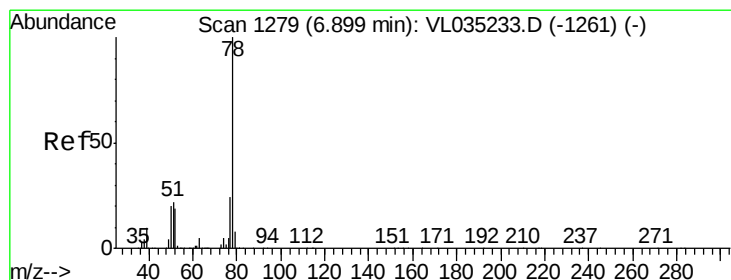
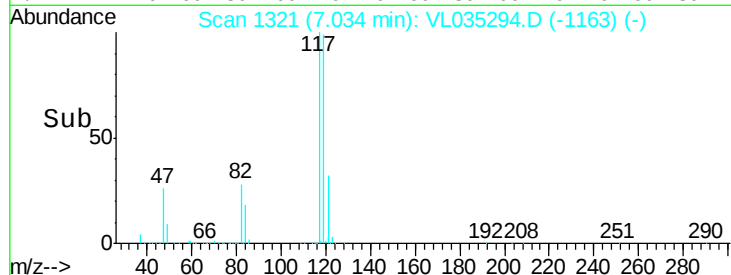
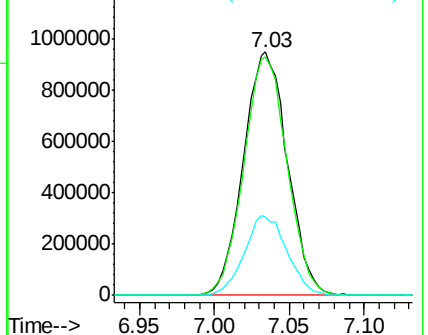
121 32.4 24.5 36.7

Manual Integrations
APPROVED

MMDadoda
8/3/2020 12:36:32 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: 10.927 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

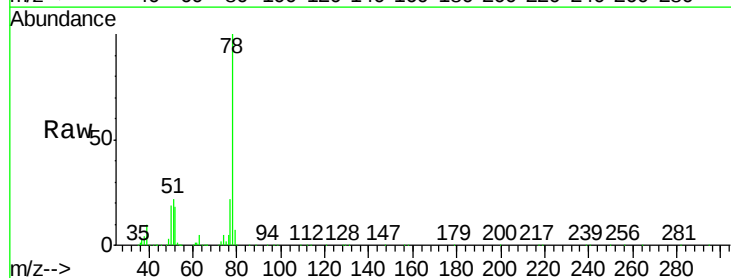
Tgt Ion: 78 Resp: 2243384

Ion Ratio Lower Upper

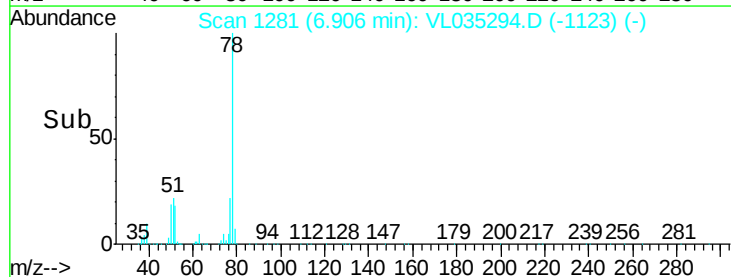
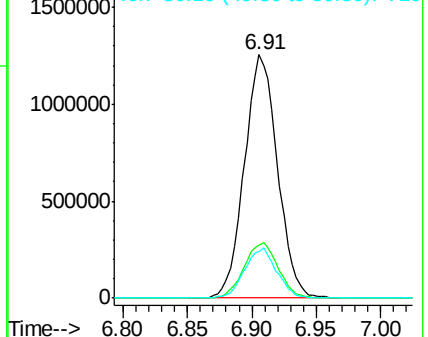
78 100

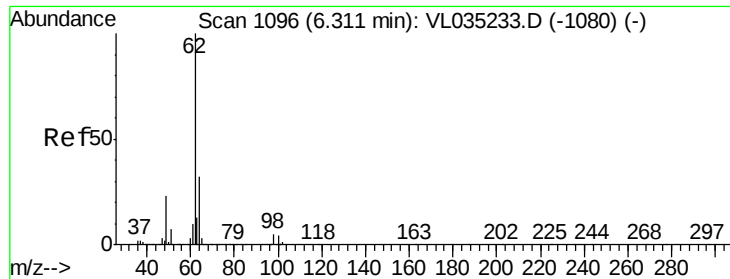
77 22.0 18.9 28.3

50 19.3 16.1 24.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





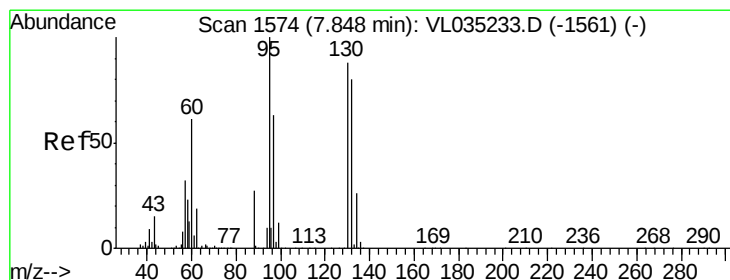
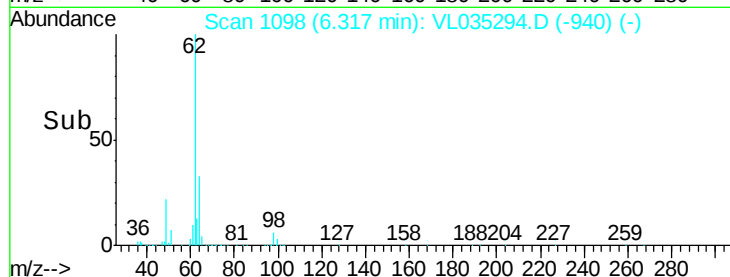
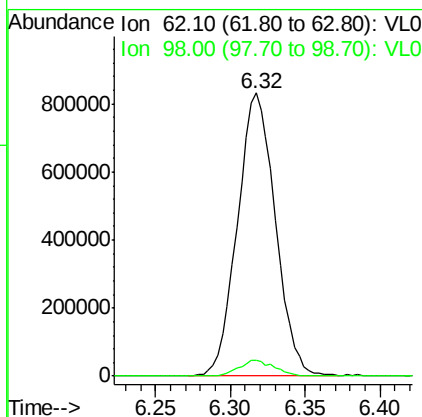
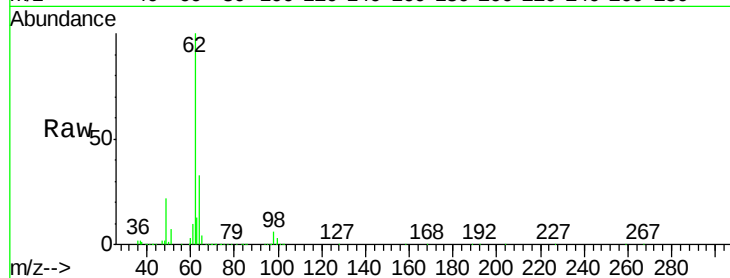
#37
 1,2-Dichloroethane
 Concen: 10.207 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1464955
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.5 6.7

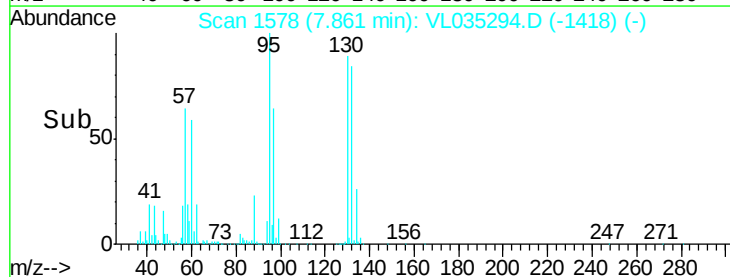
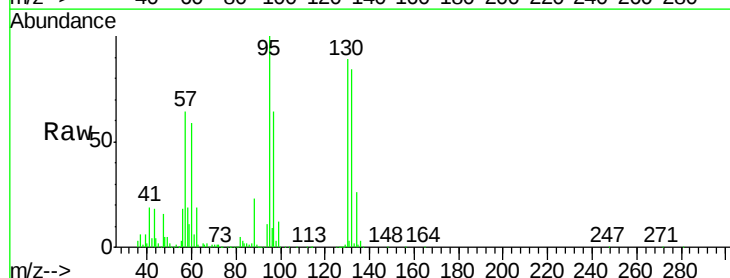
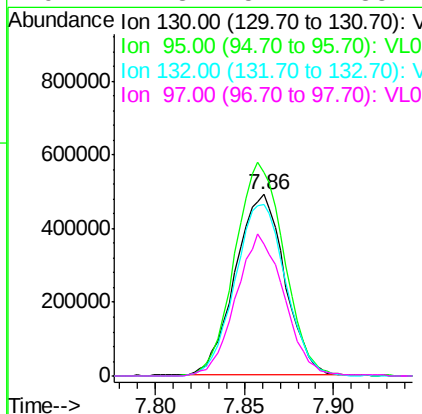
Manual Integrations
 APPROVED

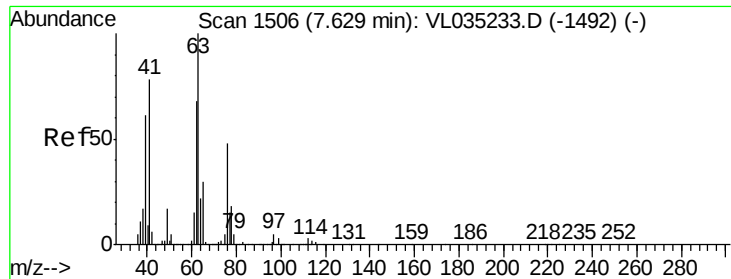
MMDadoda
 8/3/2020 12:36:32 PM



#38
 Trichloroethene
 Concen: 11.116 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion:130 Resp: 945835
 Ion Ratio Lower Upper
 130 100
 95 112.6 90.7 136.1
 132 94.7 72.9 109.3
 97 72.3 57.1 85.7





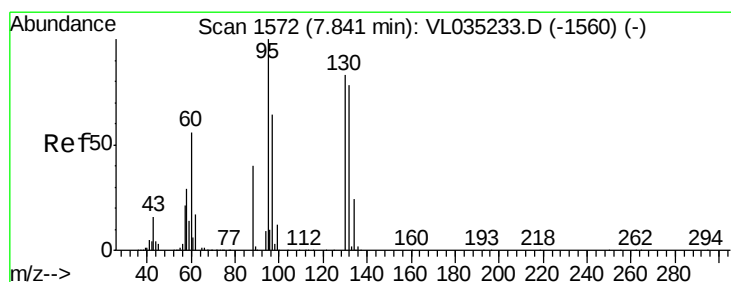
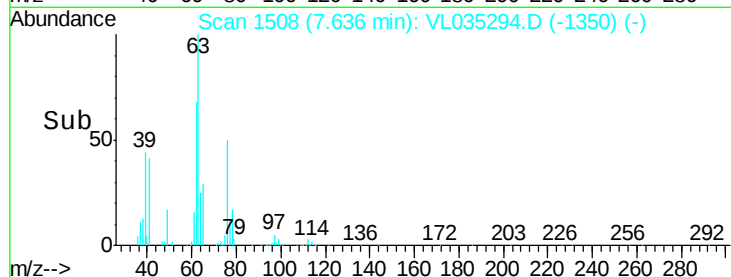
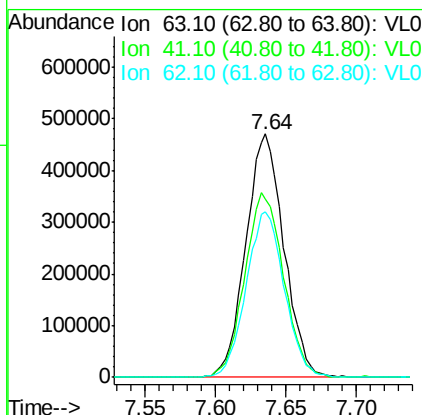
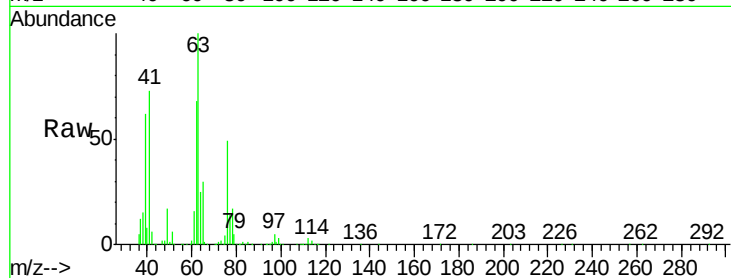
#39
 1,2-Dichloropropane
 Concen: 10.866 ppbv
 RT: 7.64 min Scan# 1508
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	73.0	62.2	93.4
62	68.2	54.2	81.2

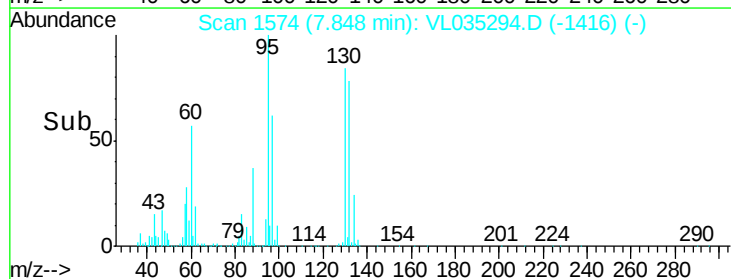
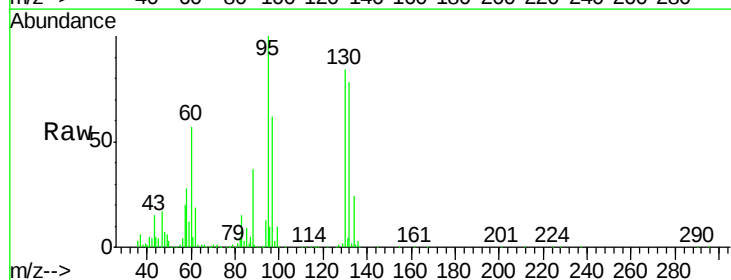
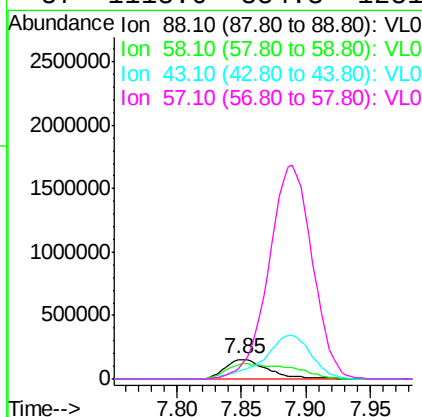
Manual Integrations
 APPROVED

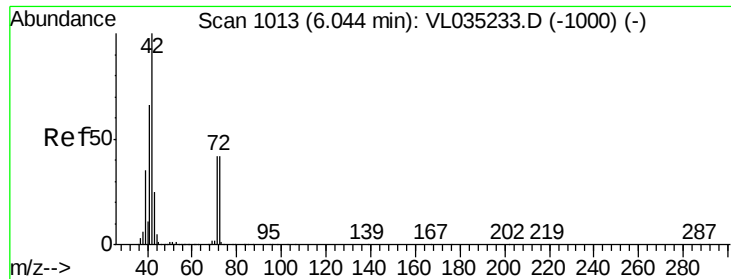
MMDadoda
 8/3/2020 12:36:32 PM



#40
 1,4-Dioxane
 Concen: 10.991 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
88	100		
58	127.1	99.3	148.9
43	251.1	195.6	293.4
57	1118.6	854.3	1281.5





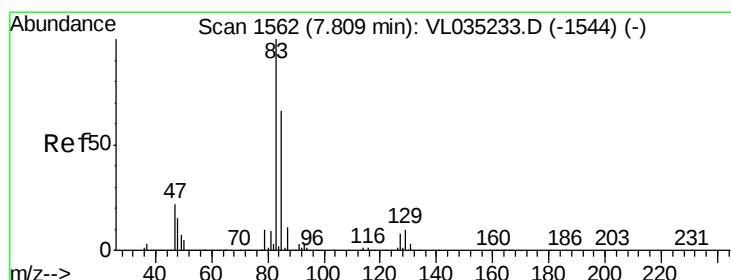
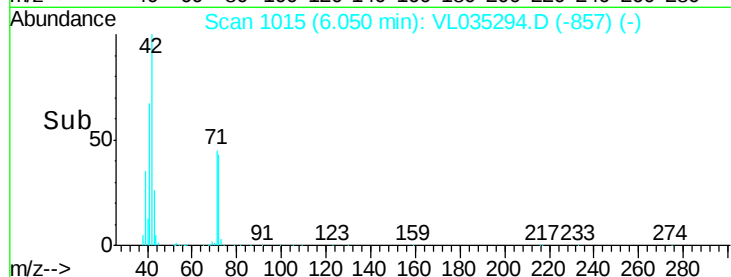
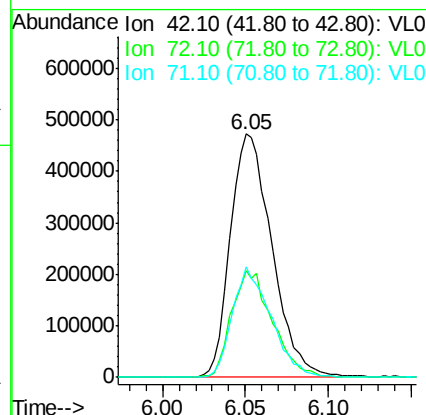
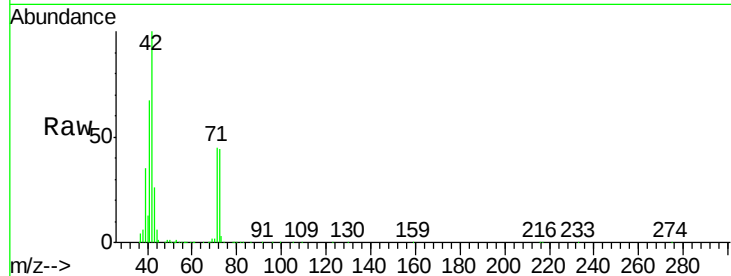
#41
Tetrahydrofuran
Concen: 11.139 ppbv
RT: 6.05 min Scan# 1015
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.4	34.2	51.2
71	42.5	33.2	49.8

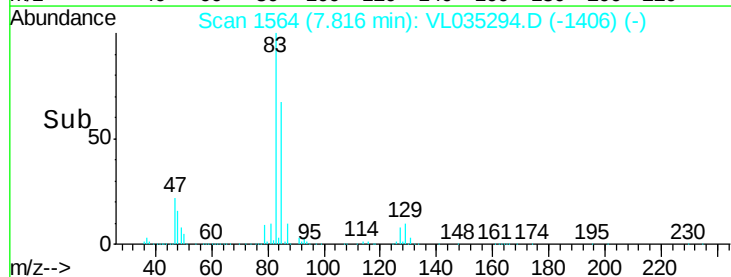
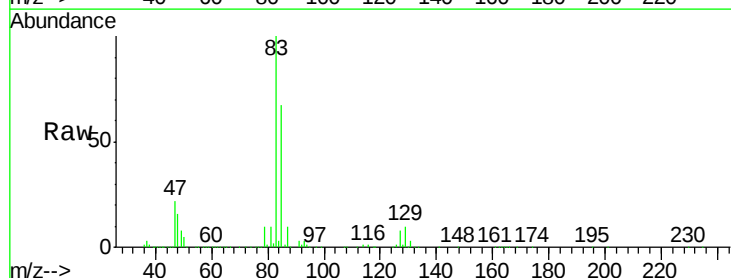
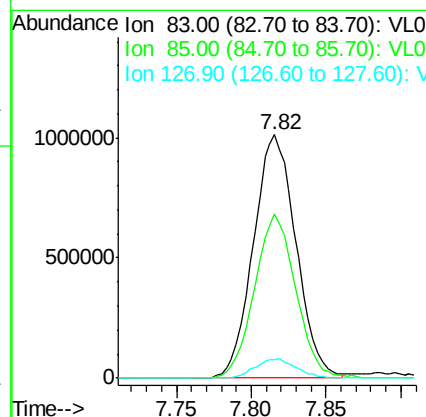
Manual Integrations
APPROVED

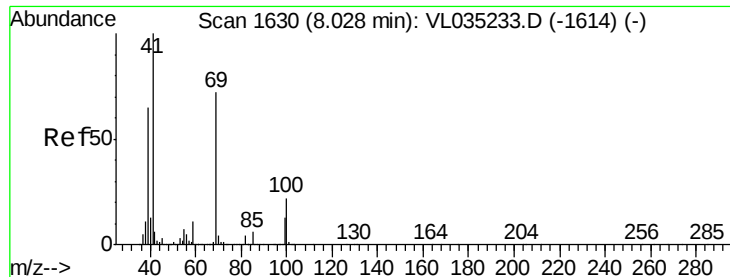
MMDadoda
8/3/2020 12:36:32 PM



#42
Bromodichloromethane
Concen: 10.467 ppbv
RT: 7.82 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.4	52.9	79.3
127	7.7	6.5	9.7





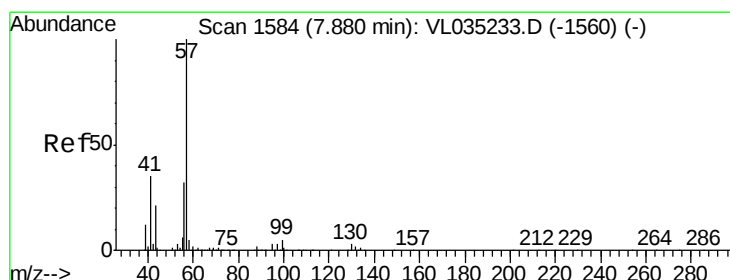
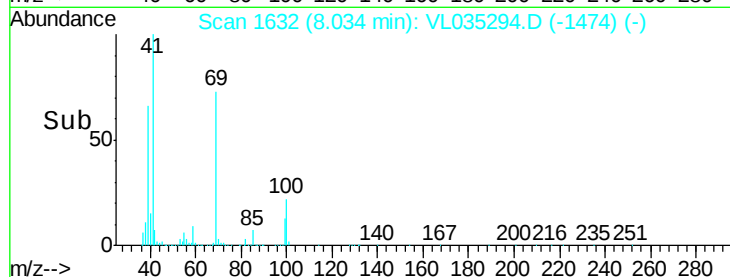
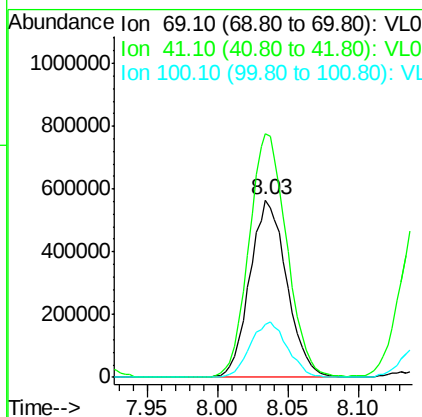
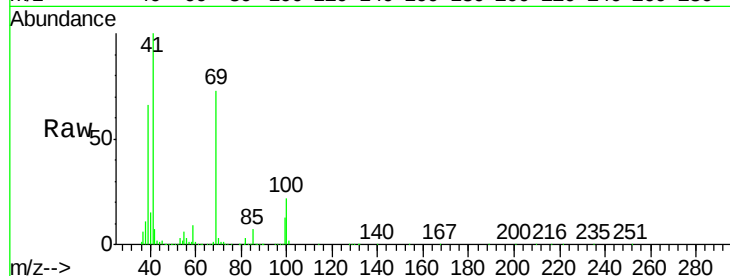
#43
Methvl Methacrilate
Concen: 11.632 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1034683
Ion Ratio Lower Upper
69 100
41 140.5 113.0 169.4
100 31.6 25.3 37.9

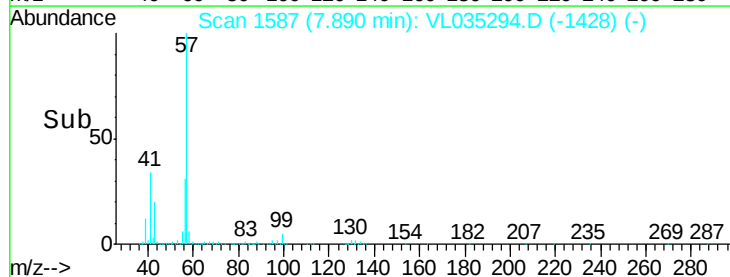
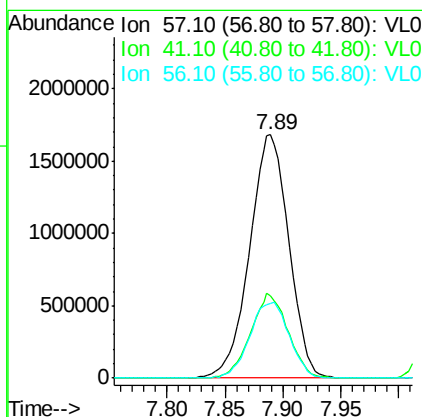
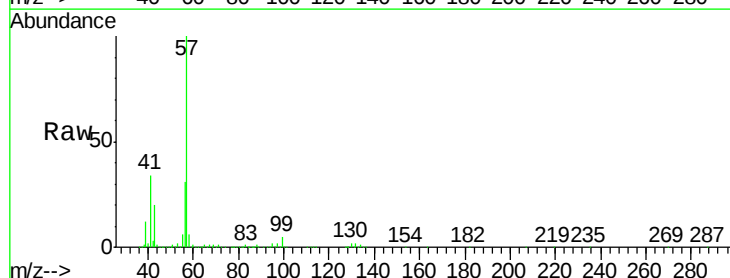
Manual Integrations
APPROVED

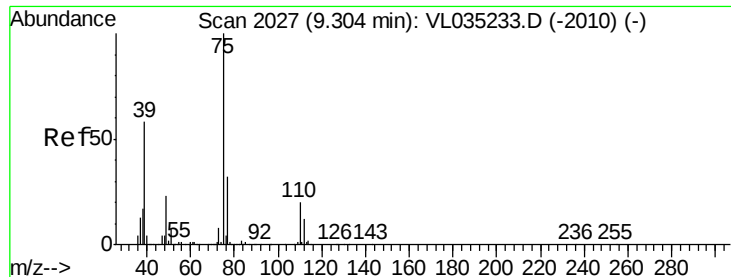
MMDadoda
8/3/2020 12:36:32 PM



#44
2,2,4-Trimethylpentane
Concen: 10.932 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion: 57 Resp: 3954486
Ion Ratio Lower Upper
57 100
41 33.2 27.0 40.4
56 31.3 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 12.582 ppbv

RT: 9.31 min Scan# 2029

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1127739

Ion Ratio Lower Upper

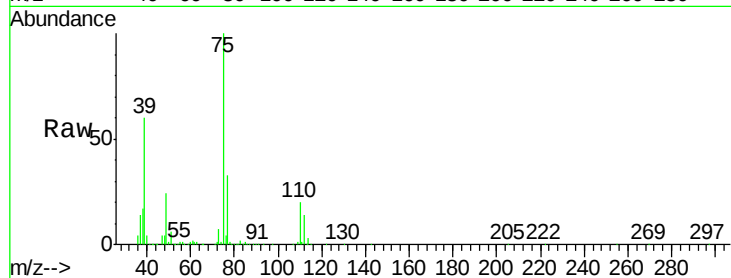
75 100

77 33.5 25.6 38.4

Manual Integrations
APPROVED

MMDadoda

8/3/2020 12:36:32 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.31

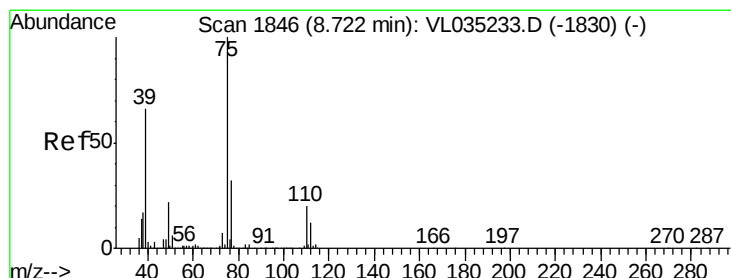
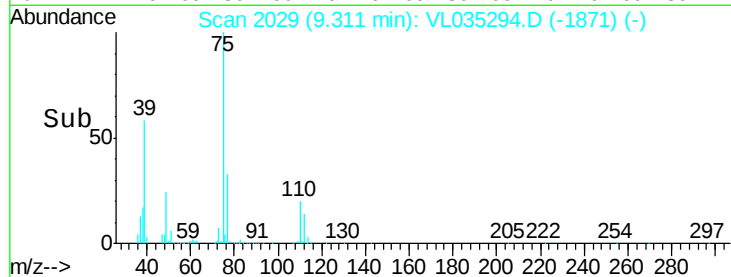
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.332 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

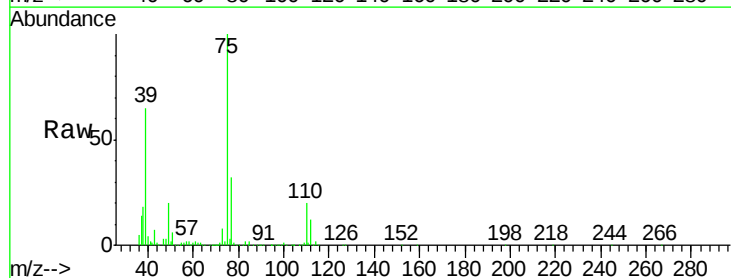
Tgt Ion: 75 Resp: 1346496

Ion Ratio Lower Upper

75 100

39 64.8 53.0 79.4

77 31.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1000000

800000

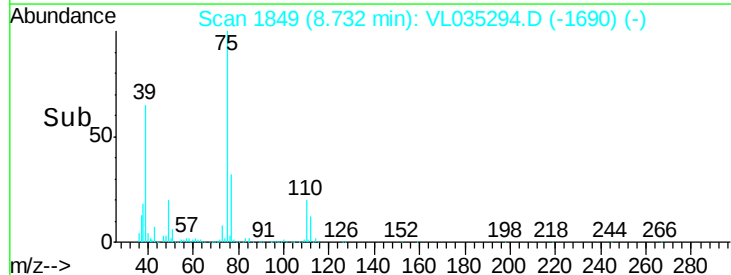
600000

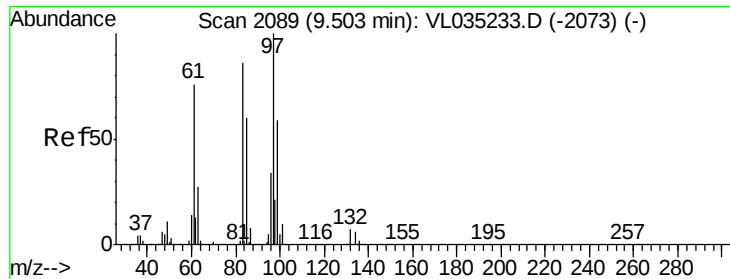
400000

200000

0

Time-->





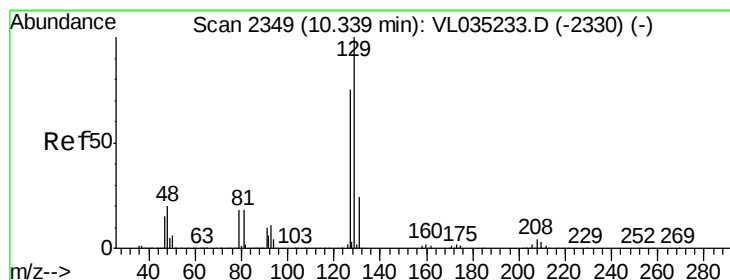
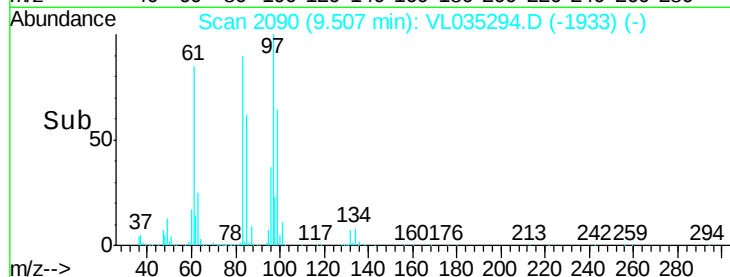
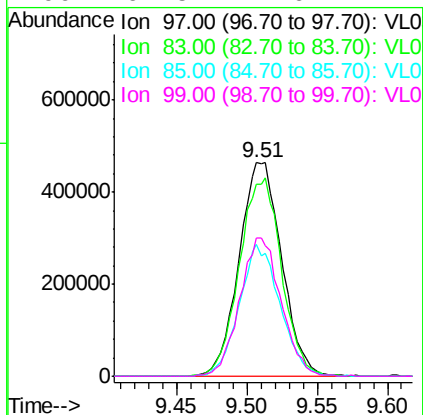
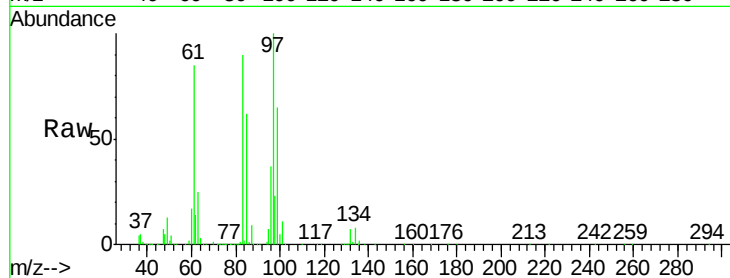
#47
 1,1,2-Trichloroethane
 Concen: 10.117 ppbv
 RT: 9.51 min Scan# 2090
 Delta R.T. 0.00 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.9	69.0	103.4
85	61.8	47.8	71.8
99	64.5	47.6	71.4

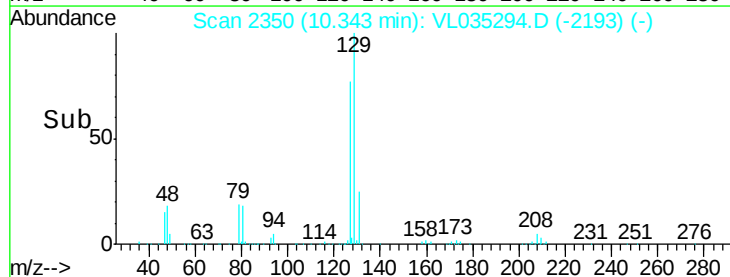
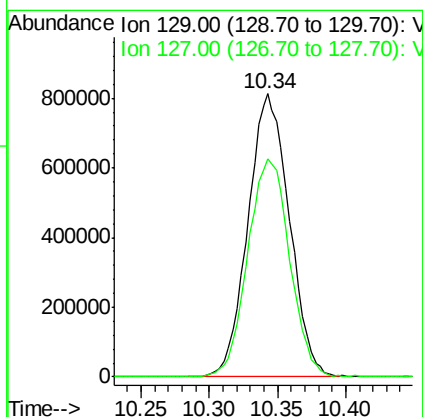
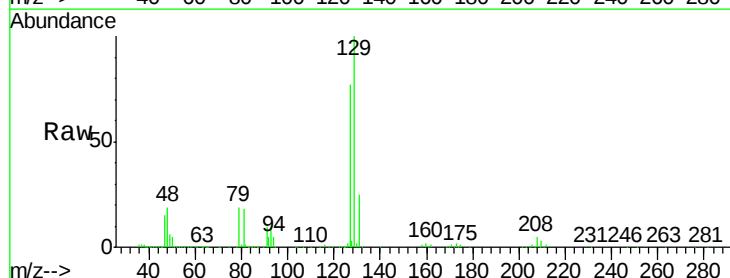
Manual Integrations
 APPROVED

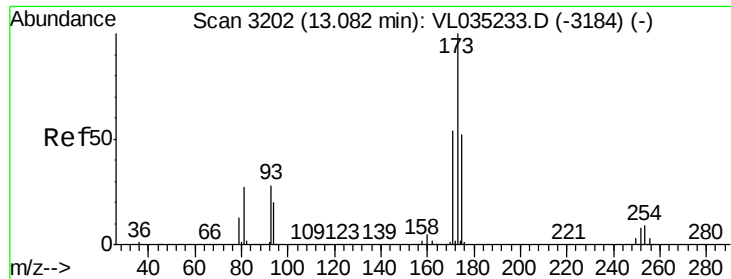
MMDadoda
 8/3/2020 12:36:32 PM



#48
 Dibromochloromethane
 Concen: 11.203 ppbv
 RT: 10.34 min Scan# 2350
 Delta R.T. 0.00 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.6	119.0





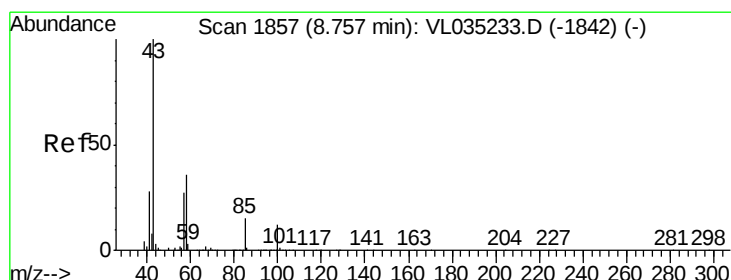
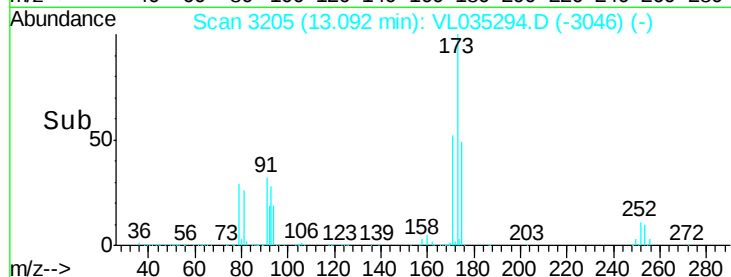
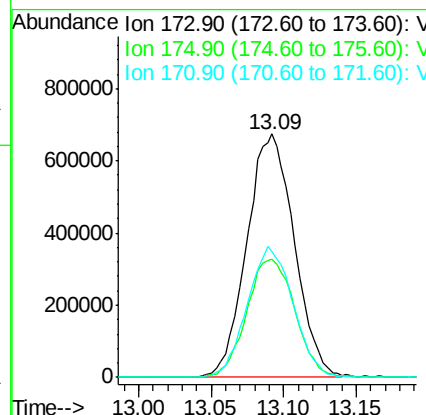
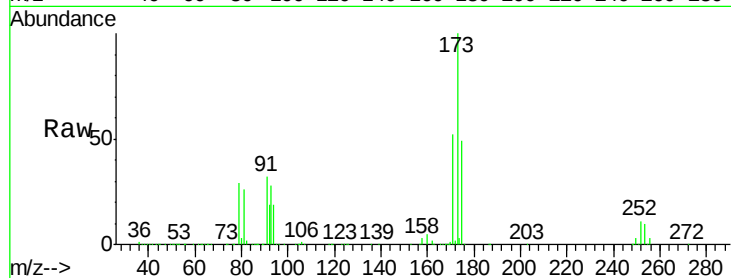
#49
Bromoform
Concen: 11.121 ppbv
RT: 13.09 min Scan# 3205
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.9	40.0	60.0
171	52.4	41.8	62.8

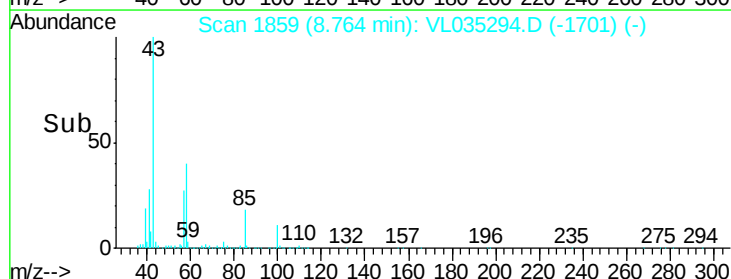
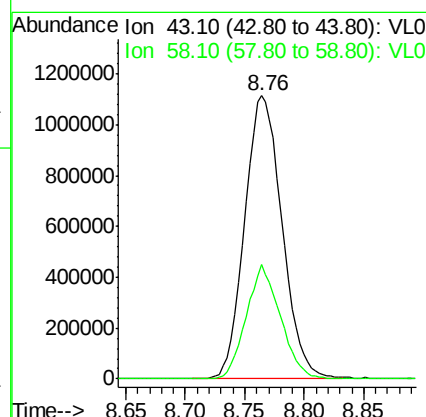
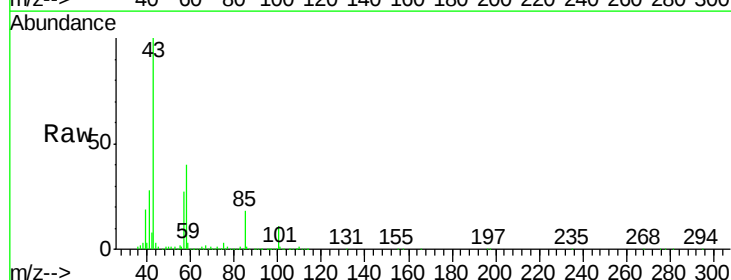
Manual Integrations
APPROVED

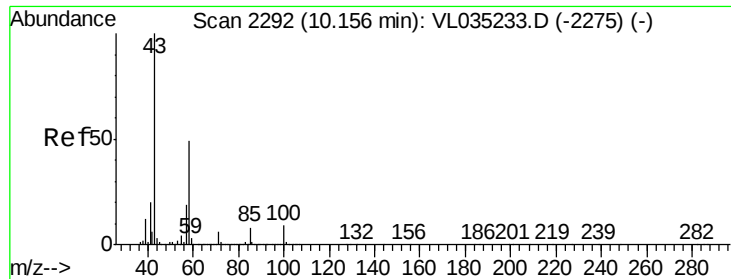
MMDadoda
8/3/2020 12:36:32 PM



#50
4-Methyl-2-Pentanone
Concen: 11.121 ppbv
RT: 8.76 min Scan# 1859
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.0	30.0	45.0





#51

2-Hexanone

Concen: 11.821 ppbv

RT: 10.17 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1952587

Ion Ratio Lower Upper

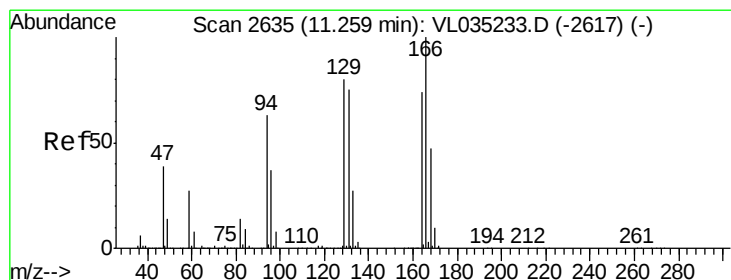
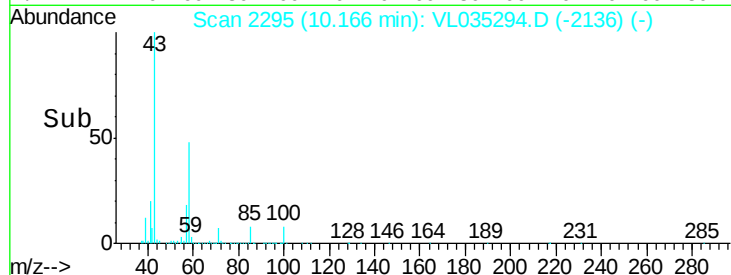
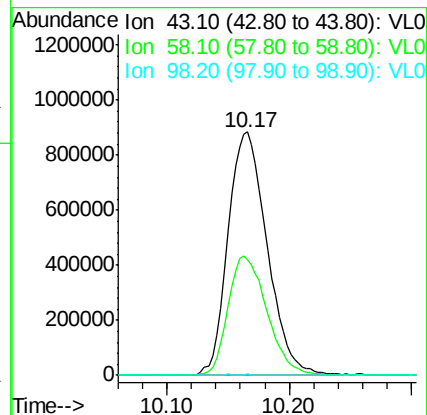
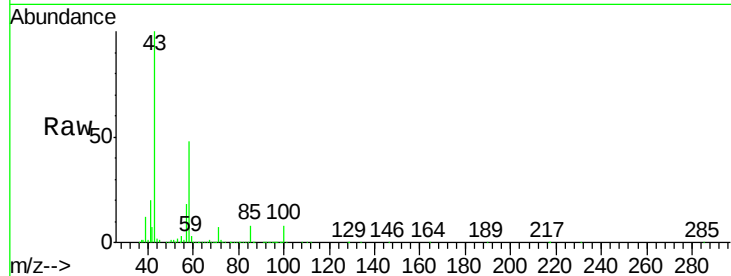
43 100

58 49.5 38.8 58.2

98 0.4 0.6 0.8#

Manual Integrations
APPROVED

MMDadoda
8/3/2020 12:36:32 PM



#52

Tetrachloroethene

Concen: 10.898 ppbv

RT: 11.27 min Scan# 2637

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Tgt Ion: 164 Resp: 853667

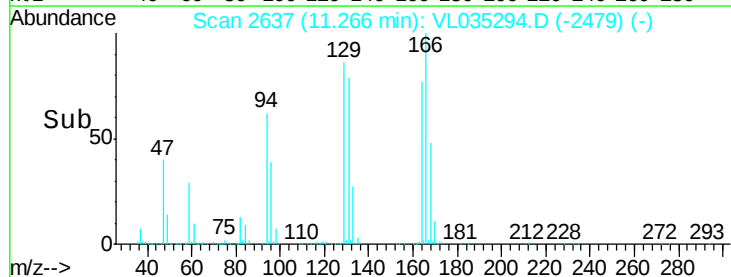
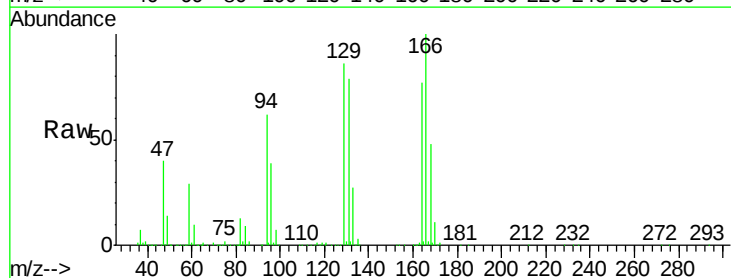
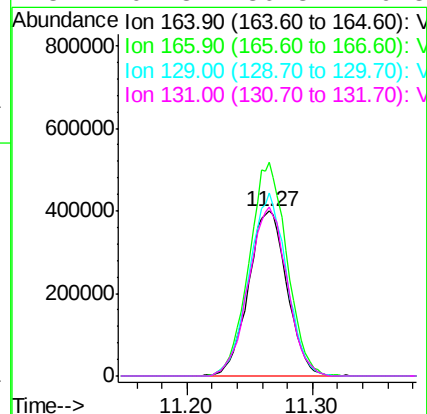
Ion Ratio Lower Upper

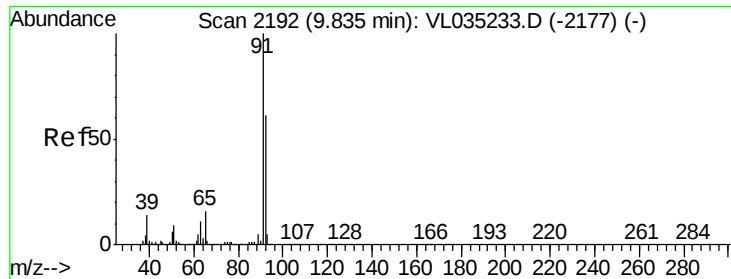
164 100

166 129.5 107.5 161.3

129 110.8 86.0 129.0

131 102.8 80.3 120.5





#53

Toluene

Concen: 12.255 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2674076

Ion Ratio Lower Upper

91 100

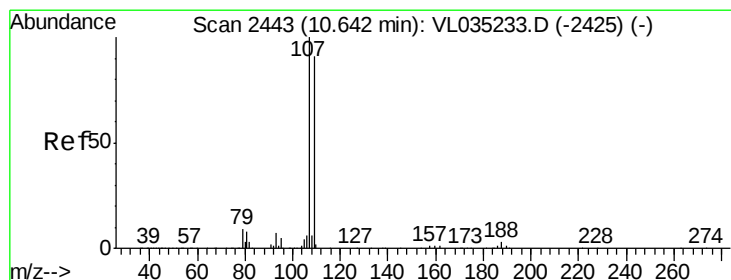
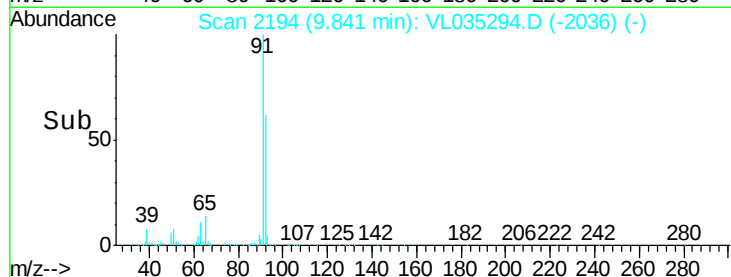
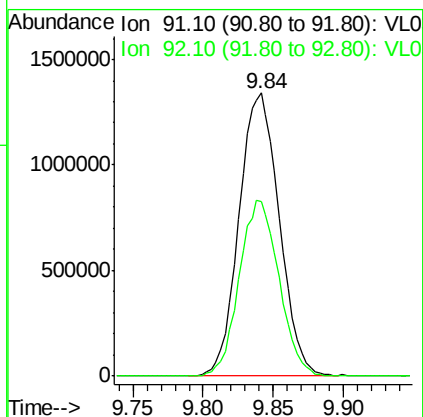
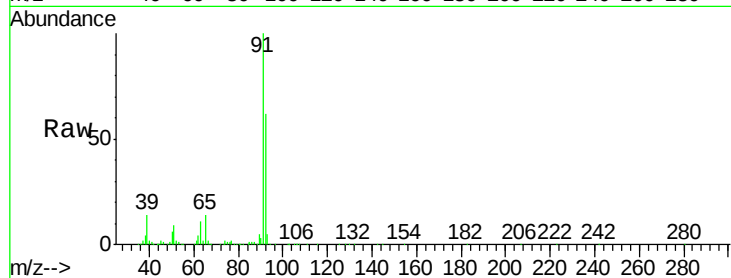
92 61.5 48.5 72.7

Manual Integrations

APPROVED

MMDadoda

8/3/2020 12:36:32 PM



#54

1,2-Dibromoethane

Concen: 10.792 ppbv

RT: 10.65 min Scan# 2446

Delta R.T. 0.01 min

Lab File: VL035294.D

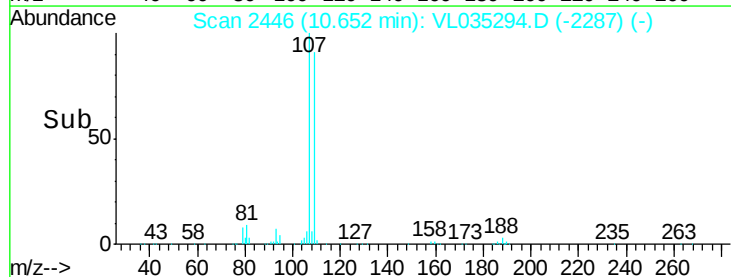
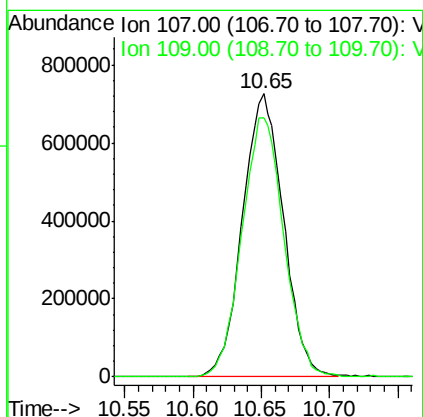
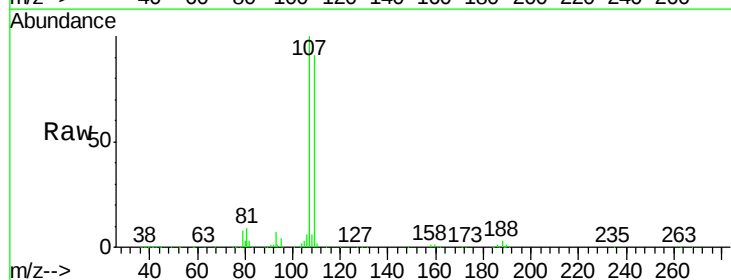
Acq: 31 Jul 2020 00:28

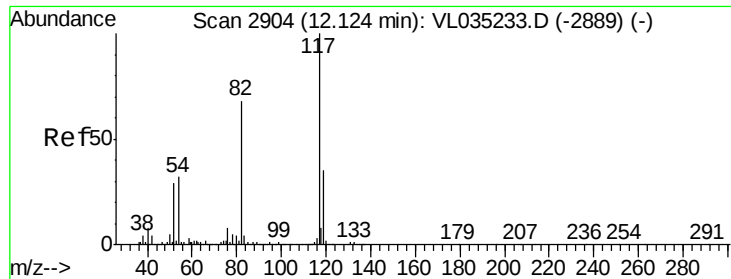
Tgt Ion: 107 Resp: 1509823

Ion Ratio Lower Upper

107 100

109 91.4 73.0 109.6





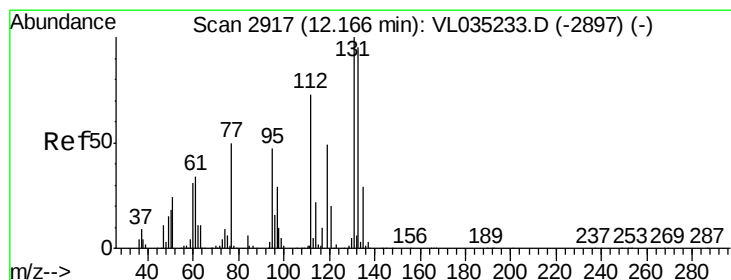
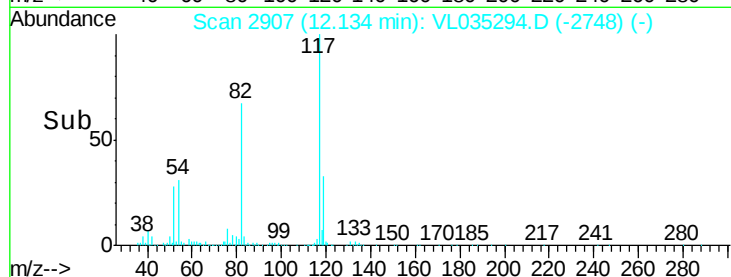
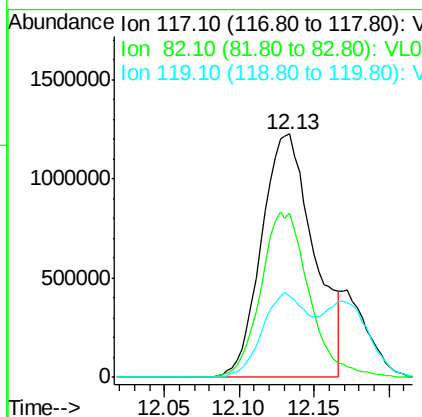
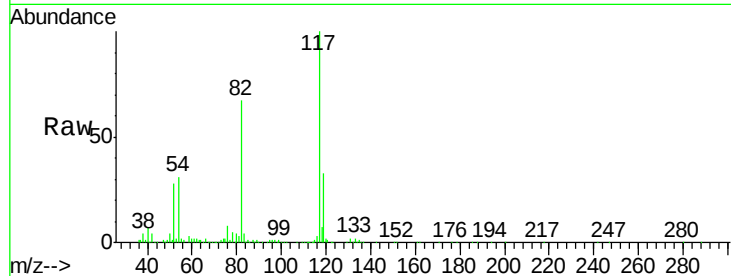
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.8	52.4	78.6
119	29.9	24.6	36.8

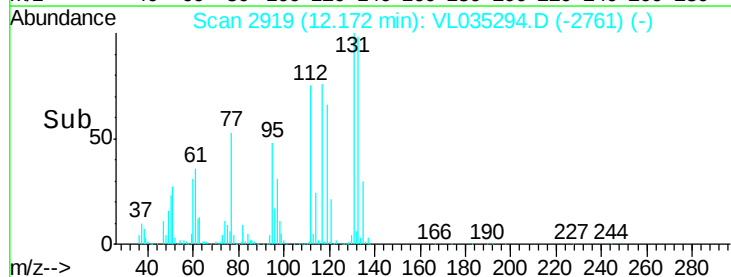
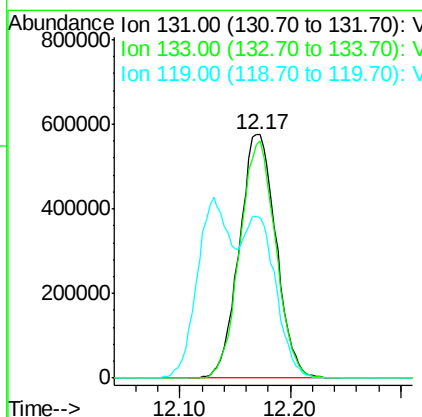
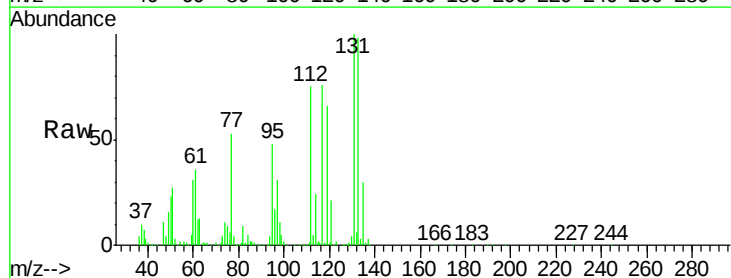
Manual Integrations
APPROVED

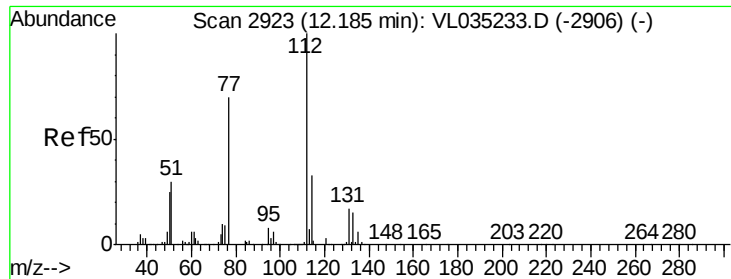
MMDadoda
8/3/2020 12:36:32 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.695 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	76.1	114.1
119	67.5	44.3	66.5#





#57

Chlorobenzene

Concen: 9.659 ppbv

RT: 12.19 min Scan# 2925

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 2165617

Ion Ratio Lower Upper

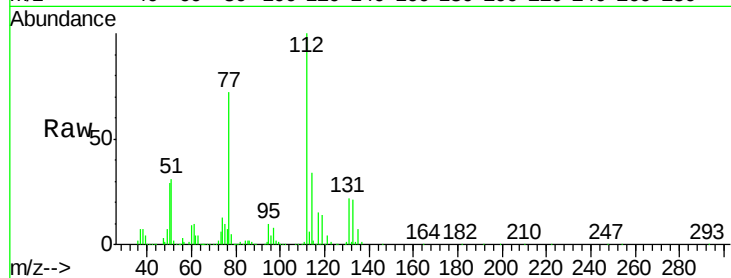
112 100

77 71.6 57.3 85.9

114 33.7 29.3 35.8

Manual Integrations
APPROVED

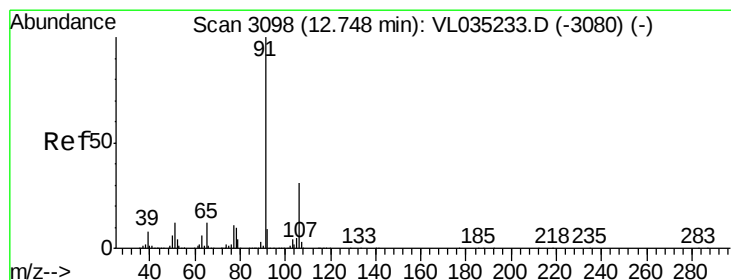
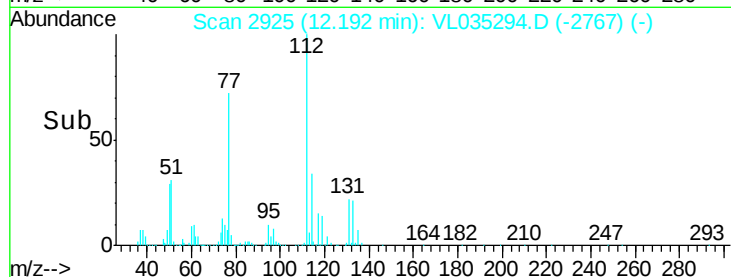
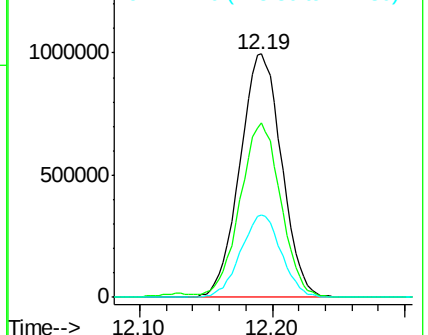
MMDadoda
8/3/2020 12:36:32 PM



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: 11.746 ppbv

RT: 12.75 min Scan# 3100

Delta R.T. 0.01 min

Lab File: VL035294.D

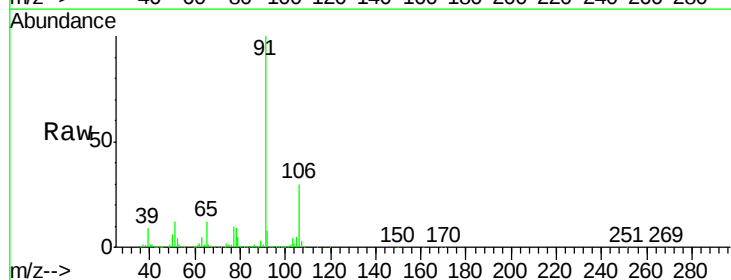
Acq: 31 Jul 2020 00:28

Tgt Ion: 91 Resp: 3706899

Ion Ratio Lower Upper

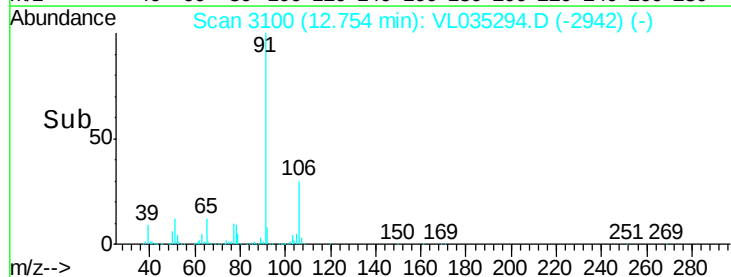
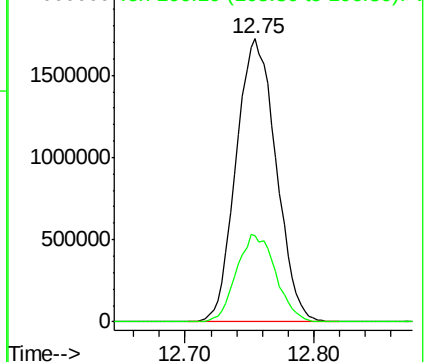
91 100

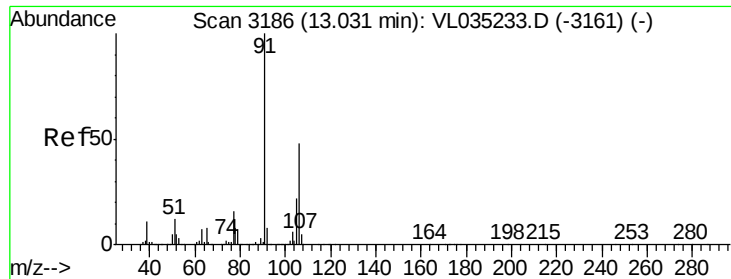
106 30.5 25.0 37.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





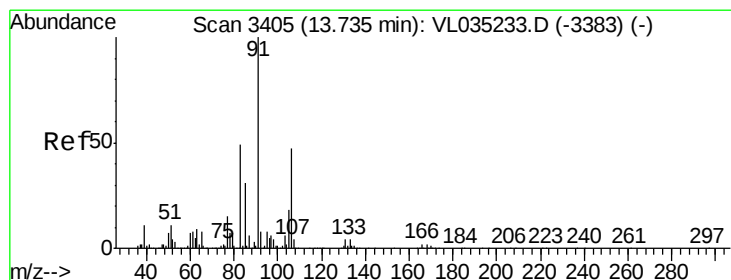
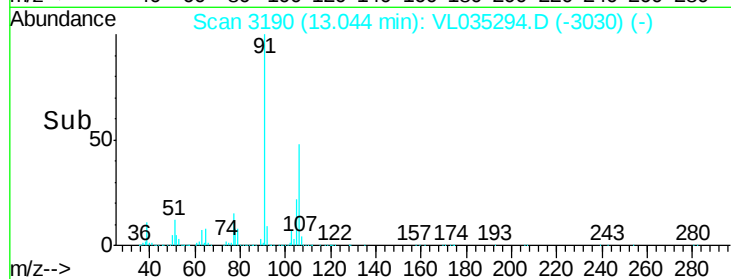
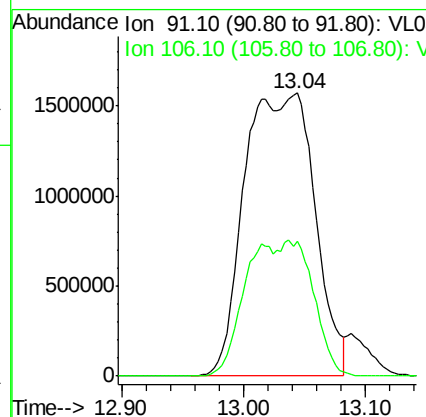
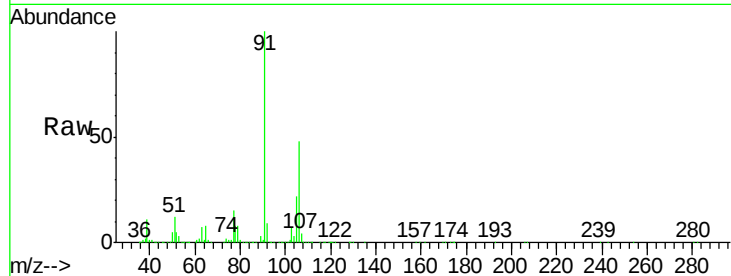
#59
m/p-Xylene
Concen: 21.459 ppbv m
RT: 13.04 min Scan# 3190
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 6304791
Ion Ratio Lower Upper
91 100
106 45.9 37.2 55.8

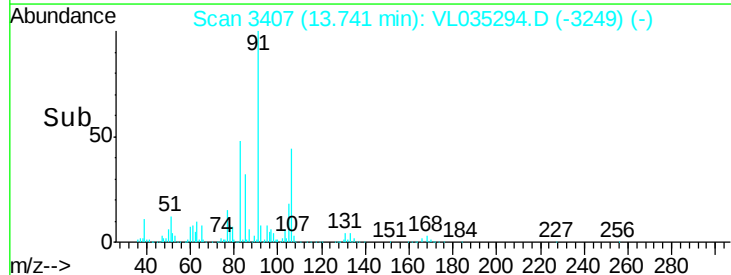
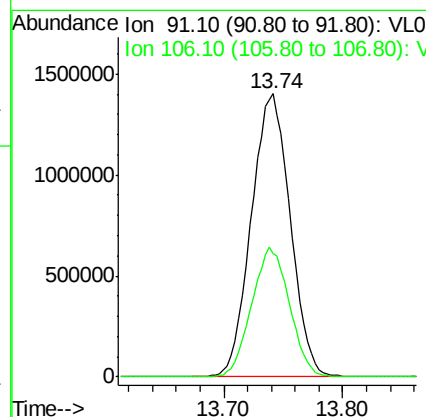
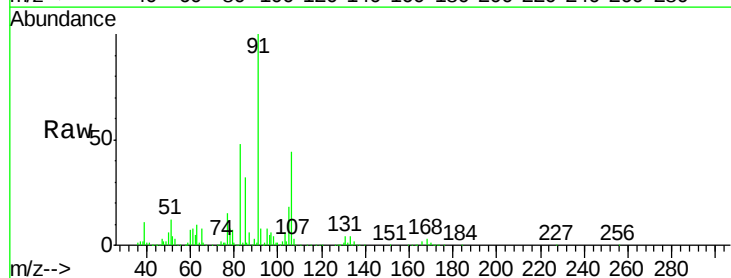
Manual Integrations
APPROVED

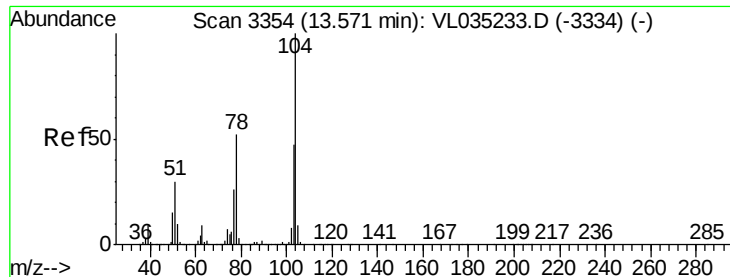
MMDadoda
8/3/2020 12:36:32 PM



#60
o-Xylene
Concen: 10.788 ppbv
RT: 13.74 min Scan# 3407
Delta R.T. 0.01 min
Lab File: VL035294.D
Acq: 31 Jul 2020 00:28

Tgt Ion: 91 Resp: 3162534
Ion Ratio Lower Upper
91 100
106 44.6 22.4 67.0





#61

Stvrene

Concen: 12.342 ppbv

RT: 13.57 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2196035

Ion Ratio Lower Upper

104 100

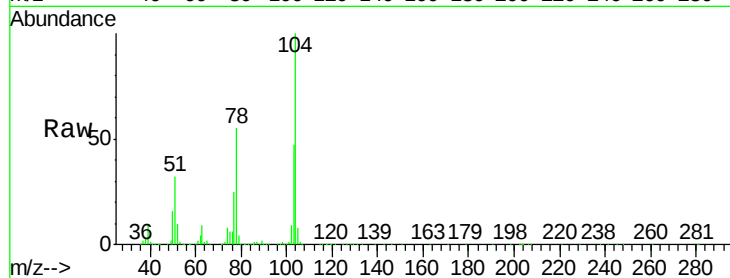
78 54.4 43.3 64.9

103 47.2 38.2 57.2

Manual Integrations
APPROVED

MMDadoda

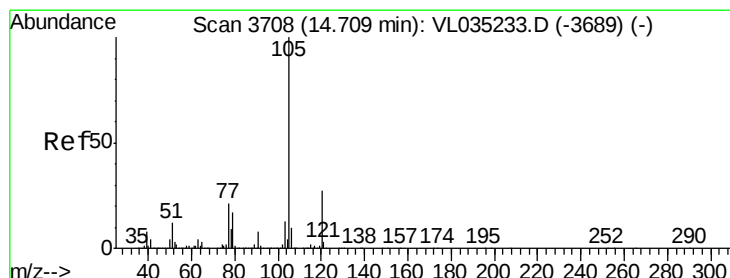
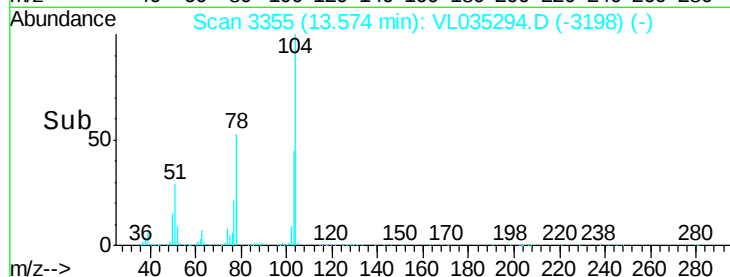
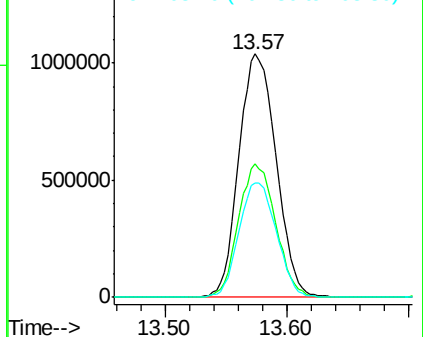
8/3/2020 12:36:32 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.706 ppbv

RT: 14.72 min Scan# 3710

Delta R.T. 0.01 min

Lab File: VL035294.D

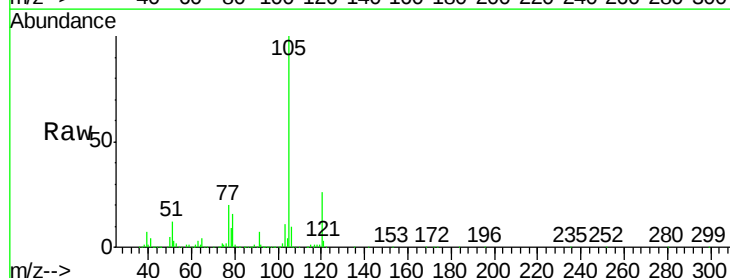
Acq: 31 Jul 2020 00:28

Tgt Ion:105 Resp: 4671130

Ion Ratio Lower Upper

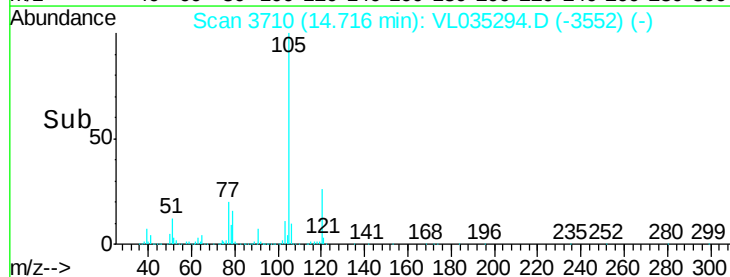
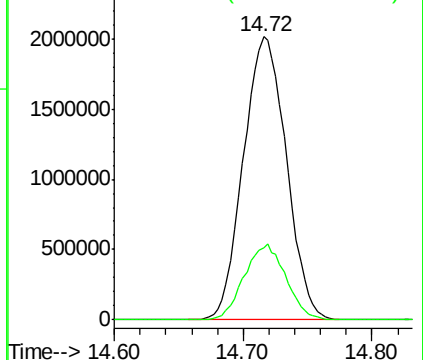
105 100

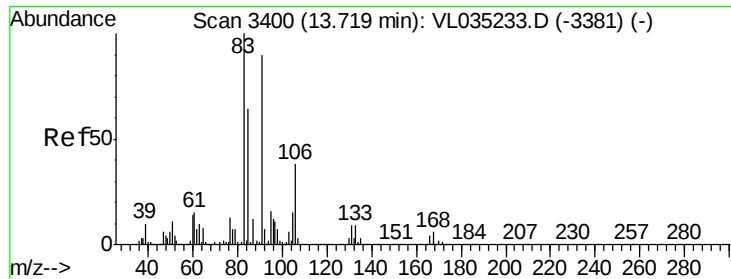
120 25.9 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.218 ppbv

RT: 13.73 min Scan# 3403

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2325053

Ion Ratio Lower Upper

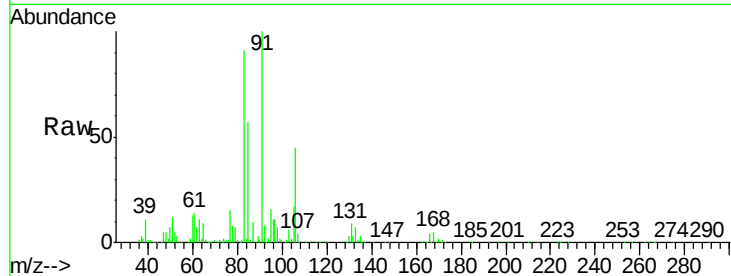
83 100

131 9.1 4.6 13.8

85 64.8 32.7 98.1

Manual Integrations
APPROVED

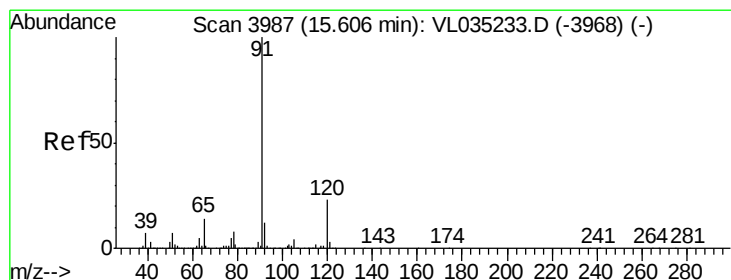
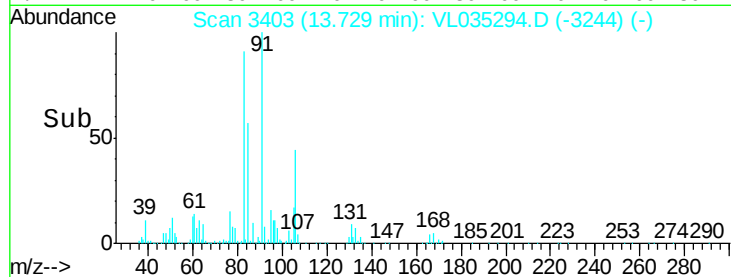
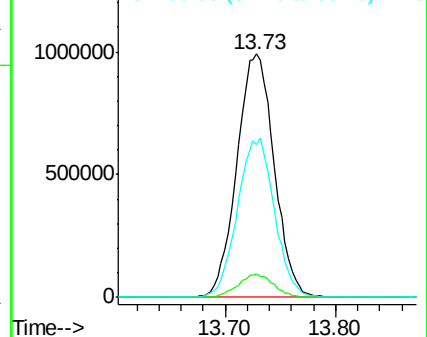
MMDadoda
8/3/2020 12:36:32 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 11.005 ppbv

RT: 15.61 min Scan# 3989

Delta R.T. 0.01 min

Lab File: VL035294.D

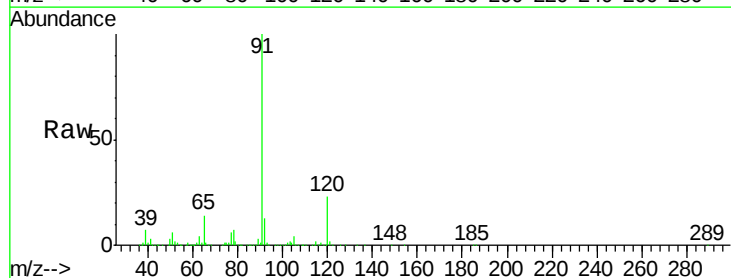
Acq: 31 Jul 2020 00:28

Tgt Ion:120 Resp: 1276671

Ion Ratio Lower Upper

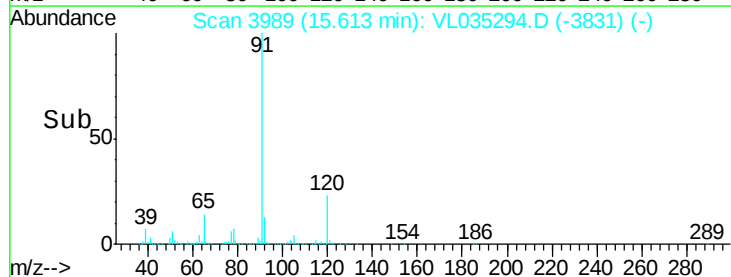
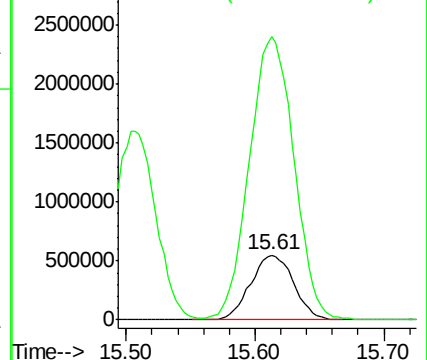
120 100

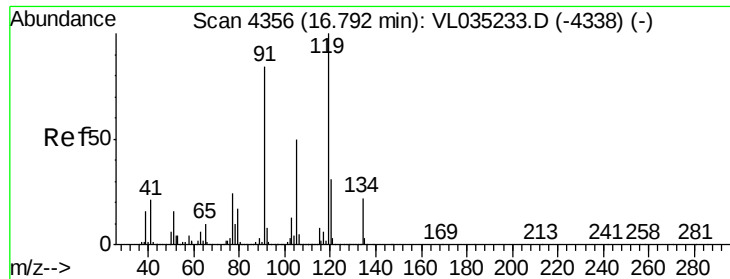
91 453.1 367.5 551.3



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 10.619 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4197171

Ion Ratio Lower Upper

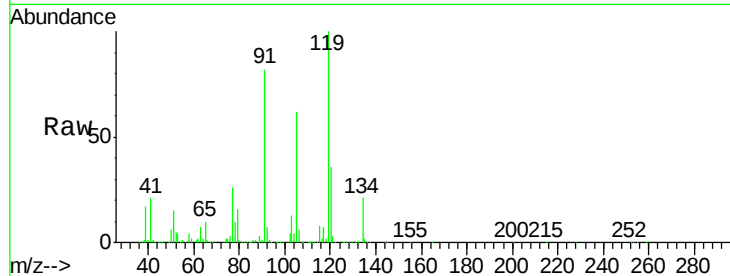
119 100

91 85.4 68.0 102.0

134 20.0 16.3 24.5

Manual Integrations
APPROVED

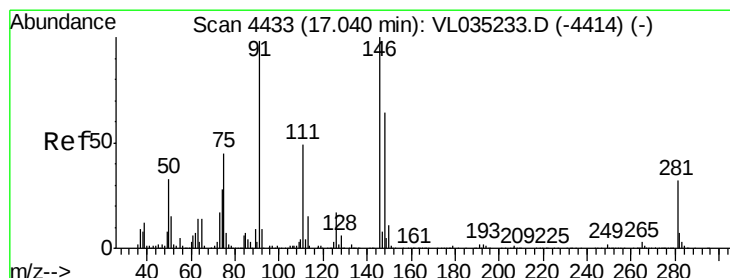
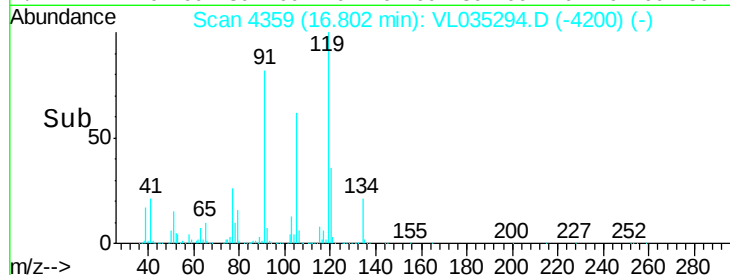
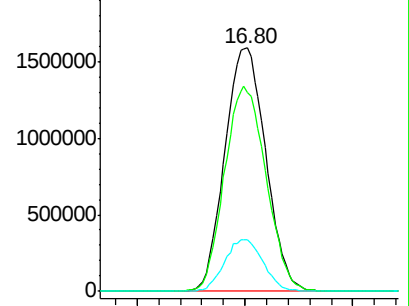
MMDadoda
8/3/2020 12:36:32 PM



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: 10.646 ppbv

RT: 17.05 min Scan# 4435

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

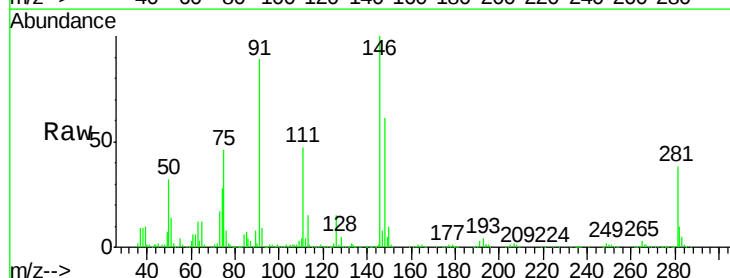
Tgt Ion: 91 Resp: 1648096

Ion Ratio Lower Upper

91 100

126 17.0 14.1 21.1

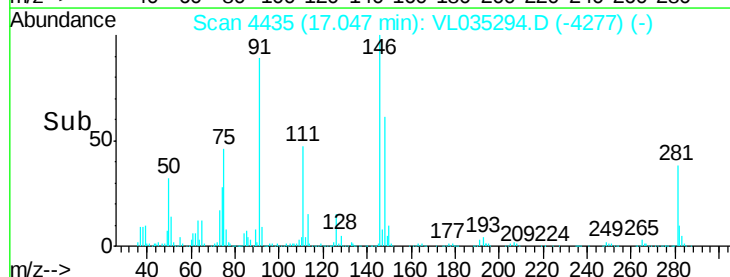
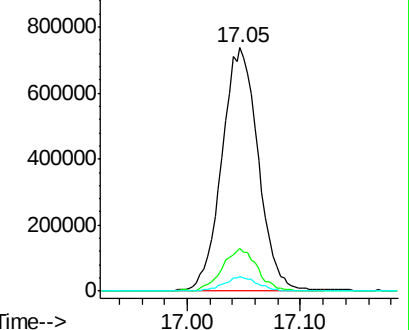
128 5.3 4.4 6.6

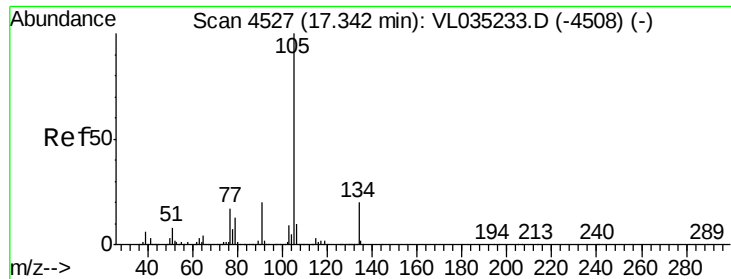


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





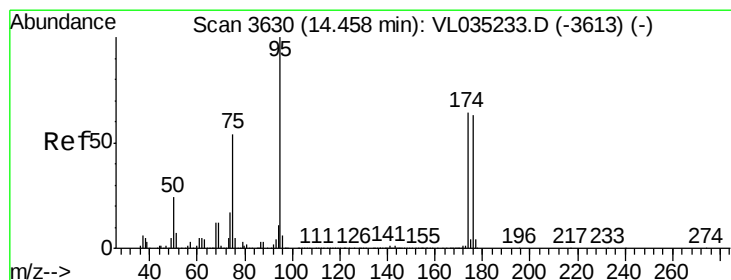
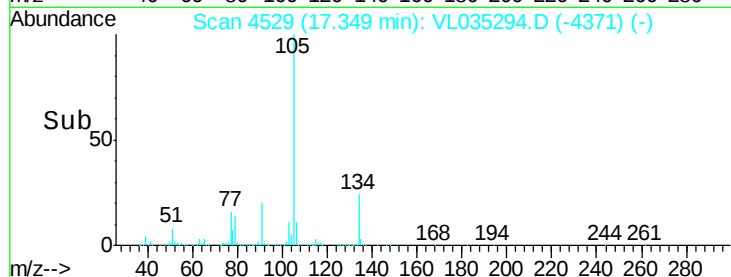
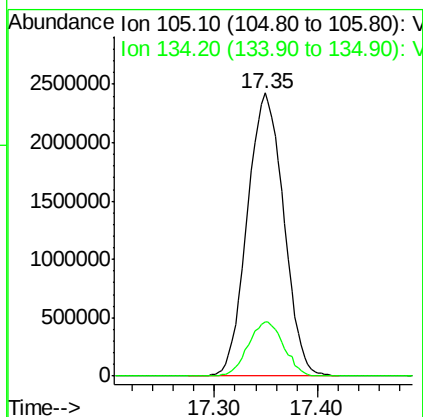
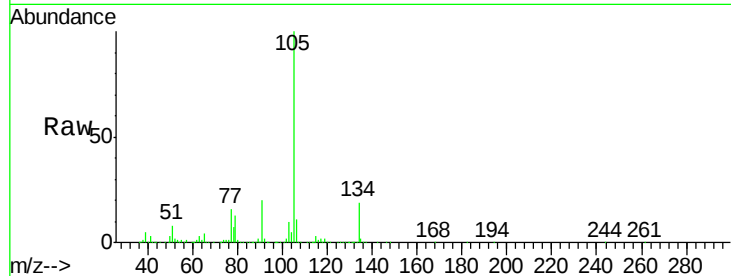
#67
 sec-Butylbenzene
 Concen: 10.293 ppbv
 RT: 17.35 min Scan# 4529
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 5944676
 Ion Ratio Lower Upper
 105 100
 134 18.8 15.0 22.4

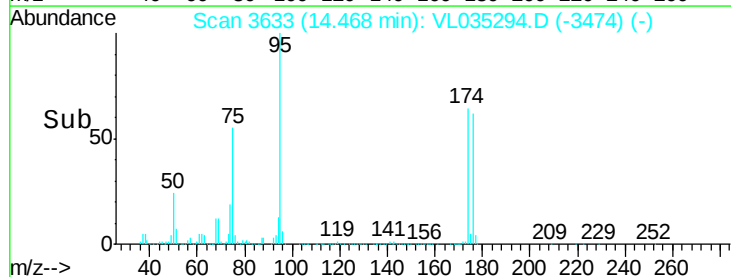
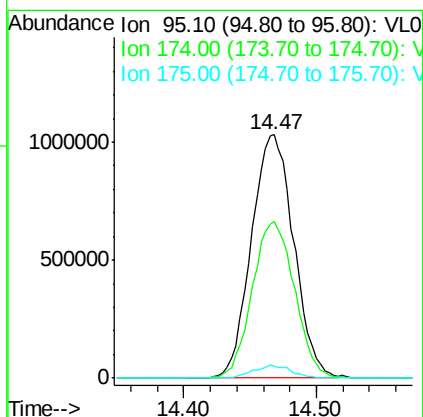
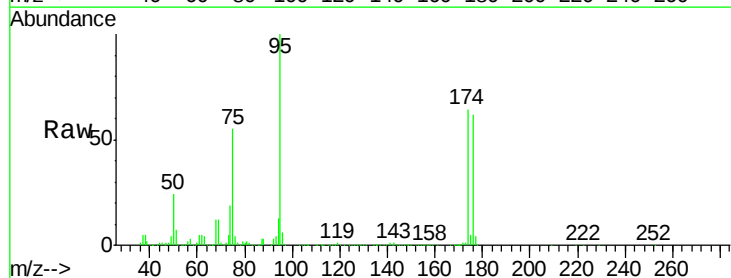
Manual Integrations
 APPROVED

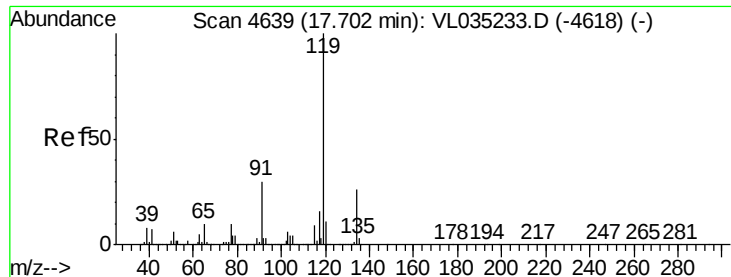
MMDadoda
 8/3/2020 12:36:32 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.612 ppbv
 RT: 14.47 min Scan# 3633
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion: 95 Resp: 2288620
 Ion Ratio Lower Upper
 95 100
 174 64.7 52.7 79.1
 175 4.7 3.9 5.9





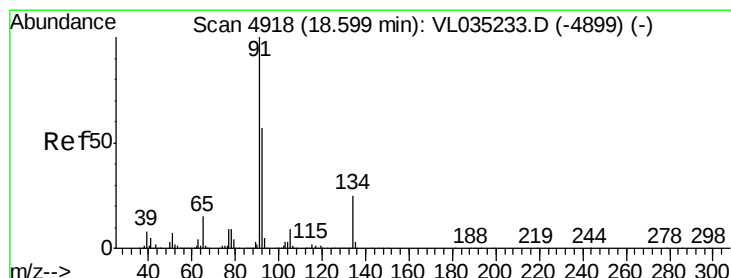
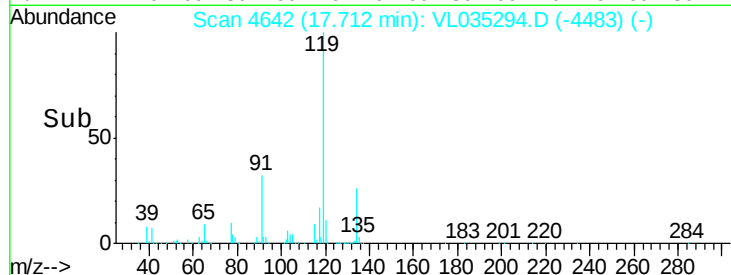
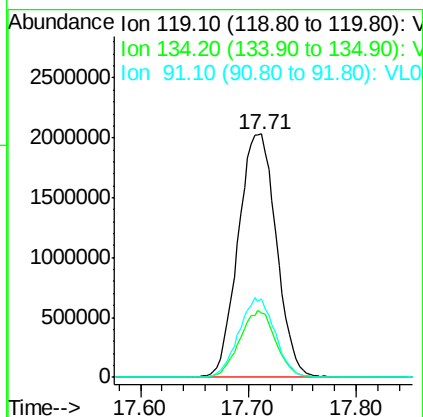
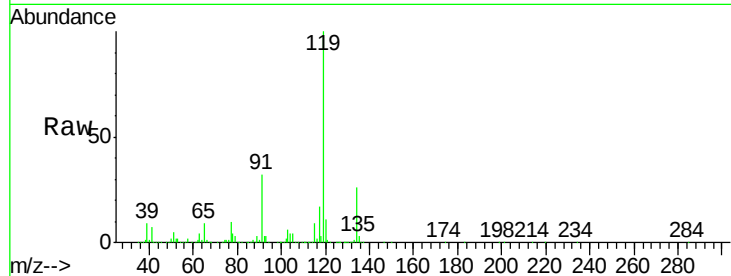
#69
 p-Isopropyltoluene
 Concen: 10.609 ppbv
 RT: 17.71 min Scan# 4642
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.8	31.2
91	30.8	24.7	37.1

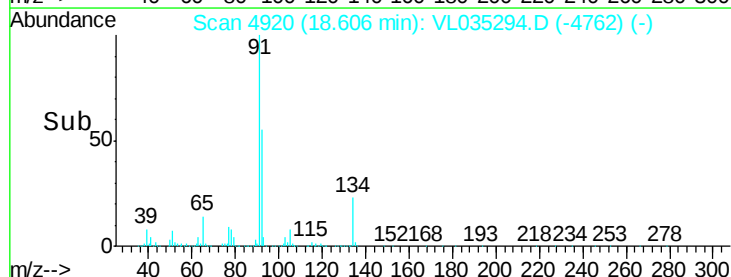
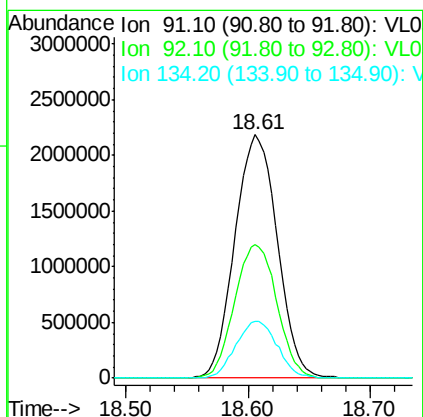
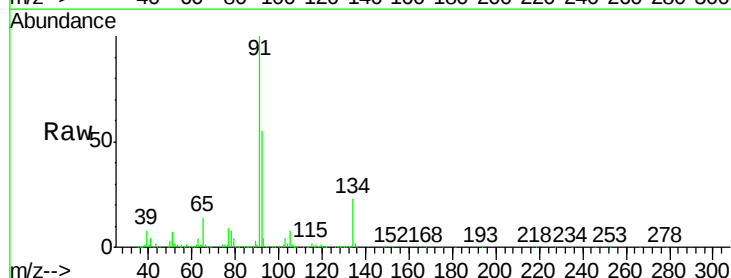
Manual Integrations
 APPROVED

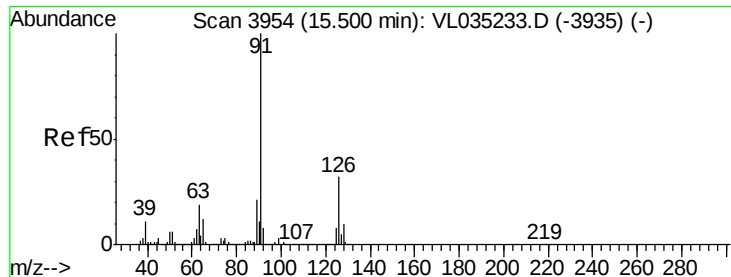
MMDadoda
 8/3/2020 12:36:32 PM



#70
 n-Butylbenzene
 Concen: 10.300 ppbv
 RT: 18.61 min Scan# 4920
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.9	67.3
134	22.9	18.6	28.0





#71

2-Chlorotoluene

Concen: 11.094 ppbv

RT: 15.50 min Scan# 3955

Delta R.T. 0.00 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3649832

Ion Ratio Lower Upper

91 100

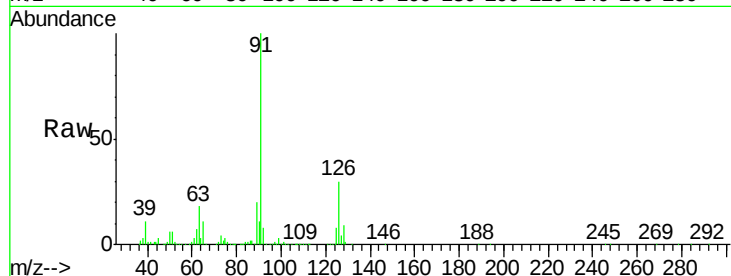
126 30.0 12.3 49.1

Manual Integrations

APPROVED

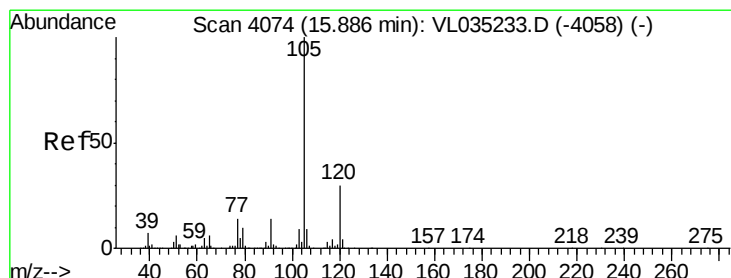
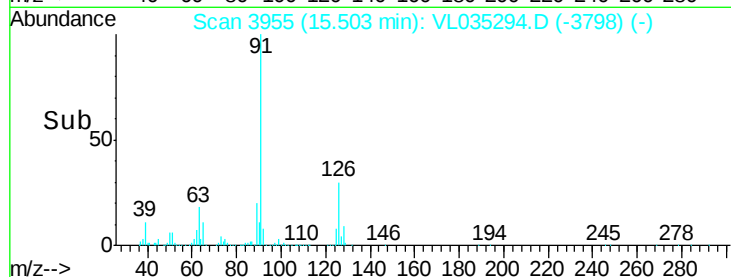
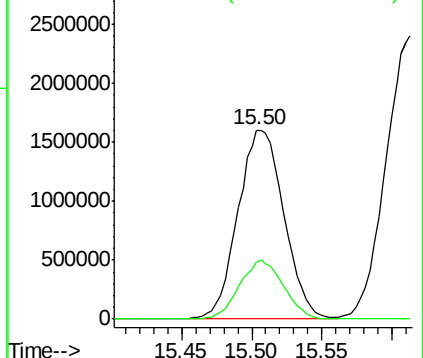
MMDadoda

8/3/2020 12:36:32 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.476 ppbv

RT: 15.89 min Scan# 4076

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Tgt Ion:105 Resp: 3786295

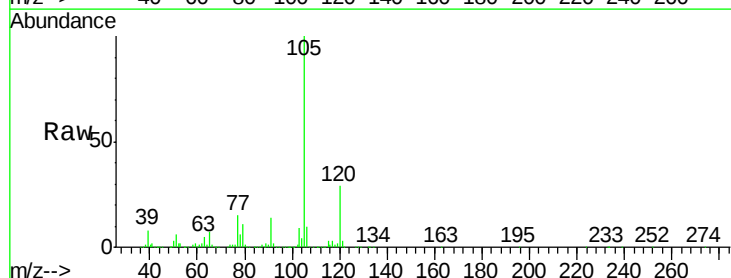
Ion Ratio Lower Upper

105 100

120 30.1 23.6 35.4

91 13.5 11.0 16.6

77 15.0 11.7 17.5

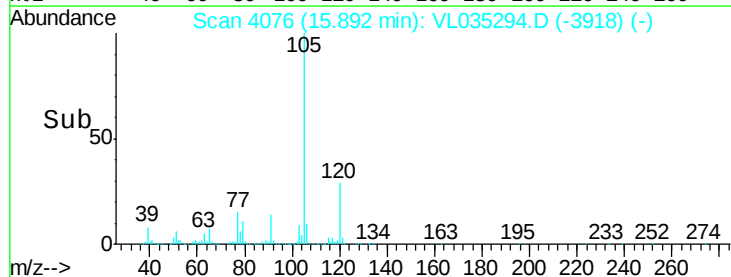
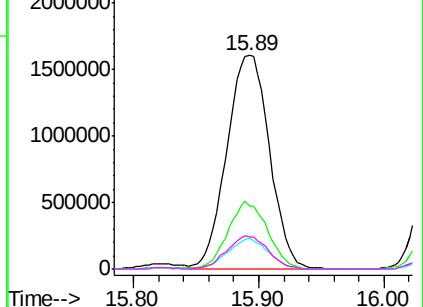


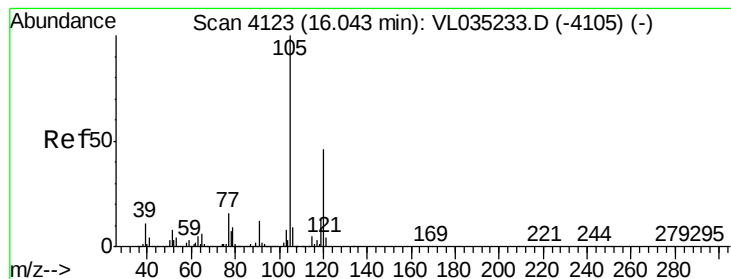
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 11.024 ppbv

RT: 16.05 min Scan# 4125

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3547283

Ion Ratio Lower Upper

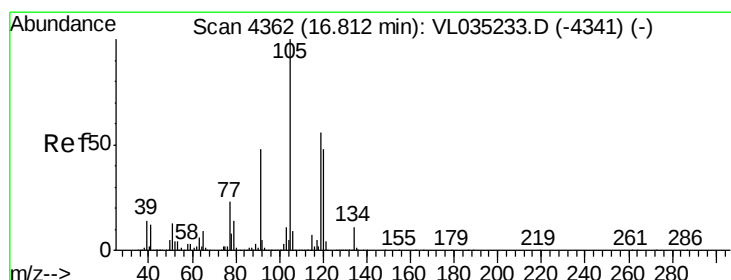
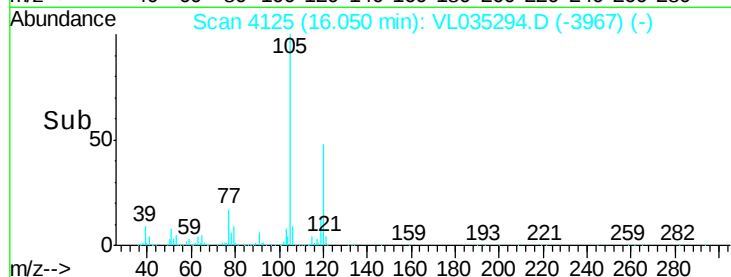
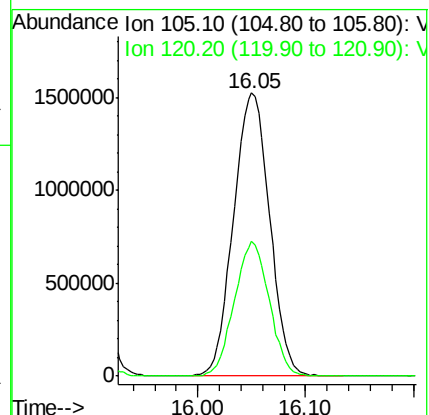
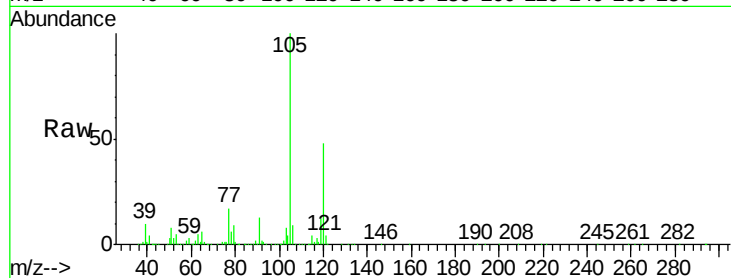
105 100

120 47.7 36.8 55.2

Manual Integrations
APPROVED

MMDadoda

8/3/2020 12:36:32 PM



#74

1,2,4-Trimethylbenzene

Concen: 10.034 ppbv

RT: 16.82 min Scan# 4364

Delta R.T. 0.01 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Tgt Ion:105 Resp: 3758546

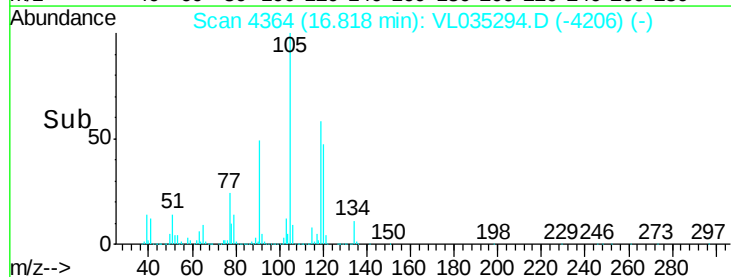
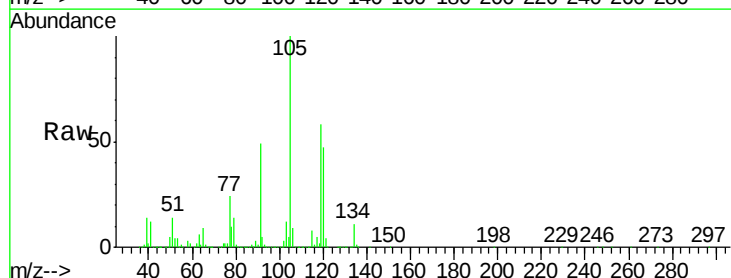
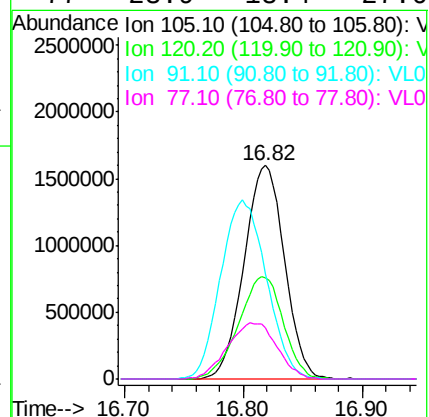
Ion Ratio Lower Upper

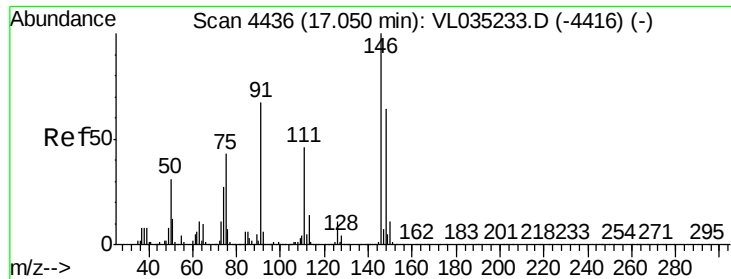
105 100

120 47.1 38.8 58.2

91 49.2 38.9 58.3

77 23.9 18.4 27.6





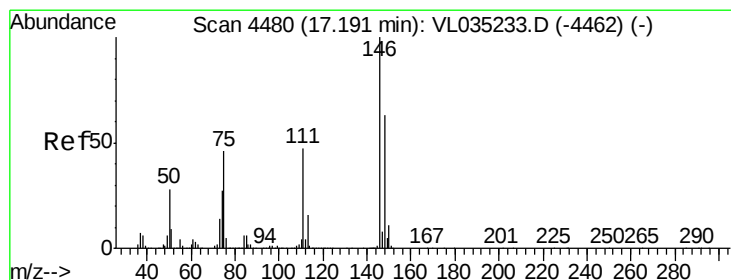
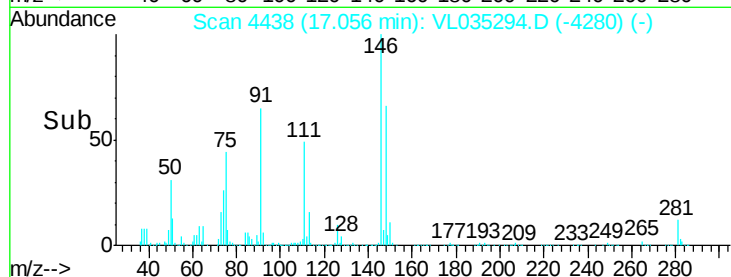
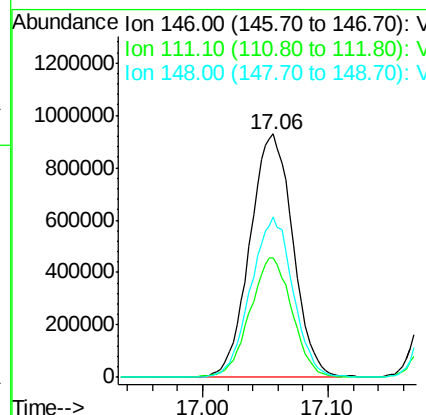
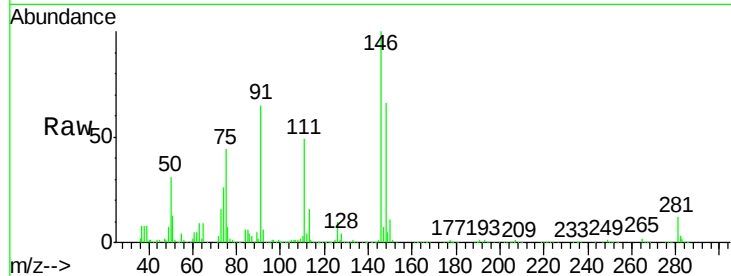
#75
 1,3-Dichlorobenzene
 Concen: 9.152 ppbv
 RT: 17.06 min Scan# 4438
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.3	24.4	73.4
148	64.5	32.1	96.5

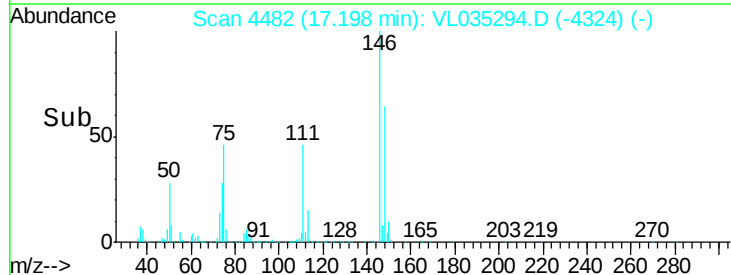
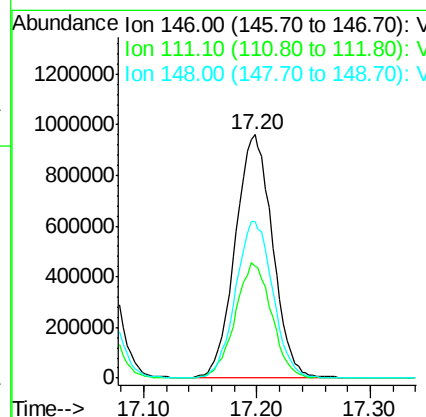
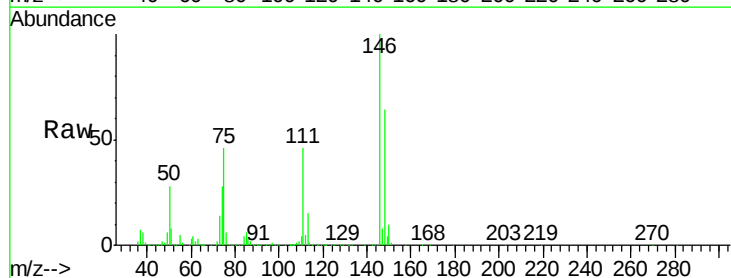
Manual Integrations
 APPROVED

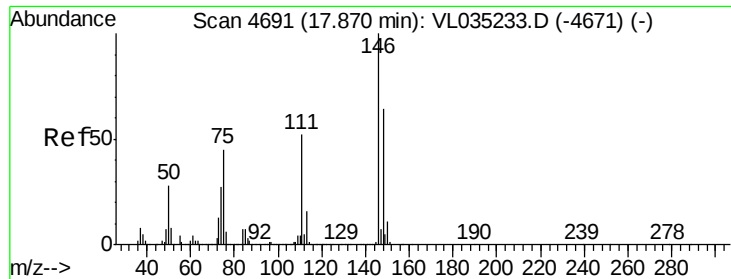
MMDadoda
 8/3/2020 12:36:32 PM



#76
 1,4-Dichlorobenzene
 Concen: 10.012 ppbv
 RT: 17.20 min Scan# 4482
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.4	70.2
148	64.6	32.2	96.6





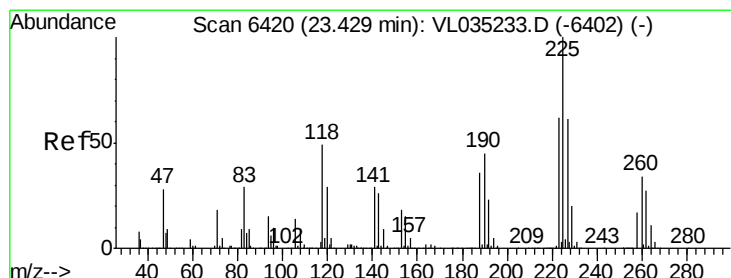
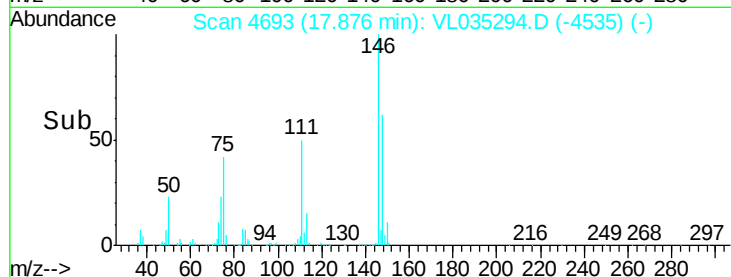
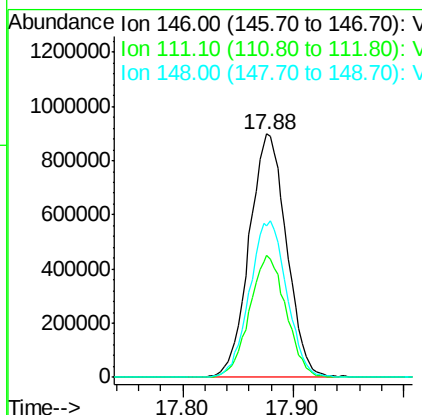
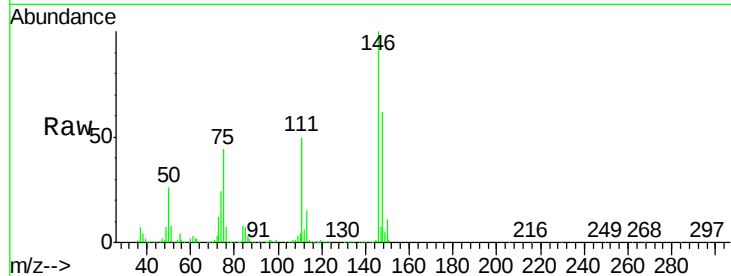
#77
 1,2-Dichlorobenzene
 Concen: 9.706 ppbv
 RT: 17.88 min Scan# 4693
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.2	24.6	73.8
148	64.3	32.0	96.0

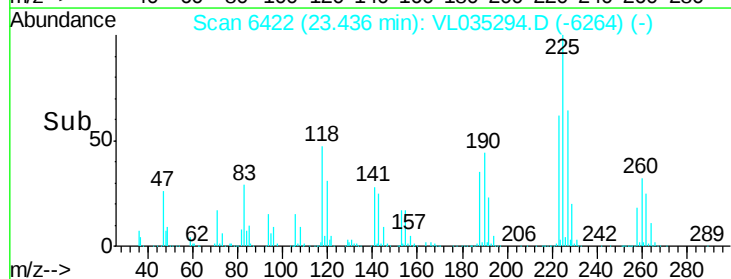
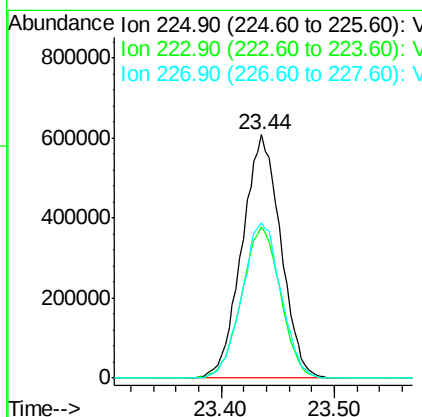
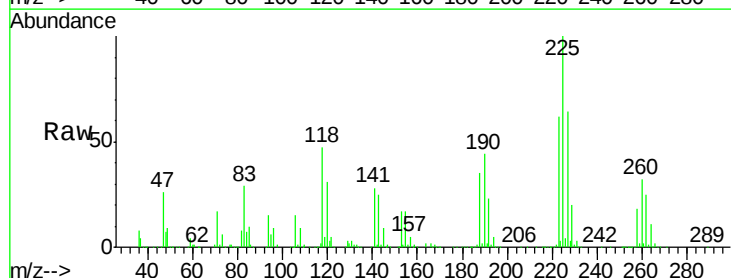
Manual Integrations
 APPROVED

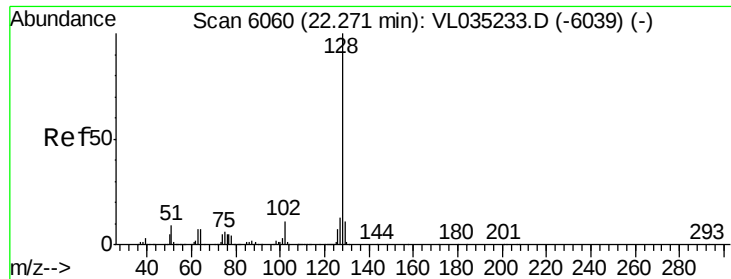
MMDadoda
 8/3/2020 12:36:32 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.135 ppbv
 RT: 23.44 min Scan# 6422
 Delta R.T. 0.01 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	51.3	76.9
227	64.6	51.4	77.2





#79

Naphthalene

Concen: 9.981 ppbv

RT: 22.27 min Scan# 6061

Delta R.T. 0.00 min

Lab File: VL035294.D

Acq: 31 Jul 2020 00:28

Instrument :

MSVOA_L

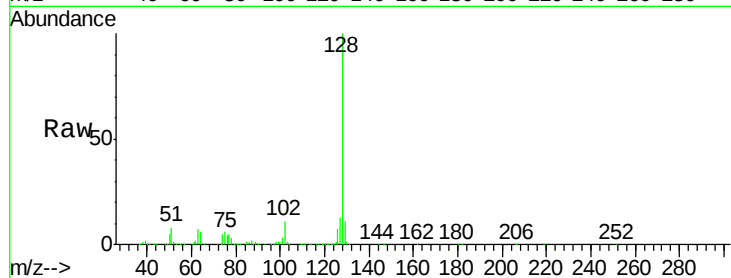
ClientSampleId :

VSTDCCC010

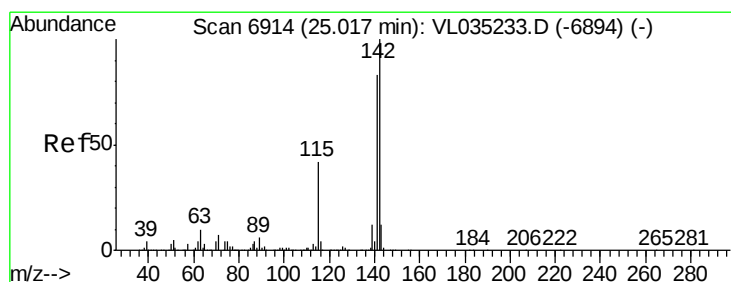
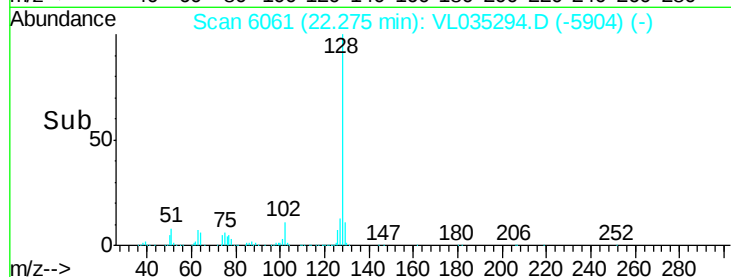
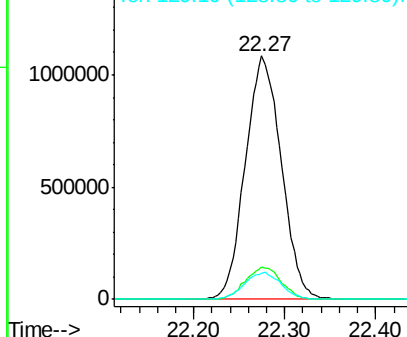
Tot Ion:	128	Resp:	2972954
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.8	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
8/3/2020 12:36:32 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: 8.462 ppbv

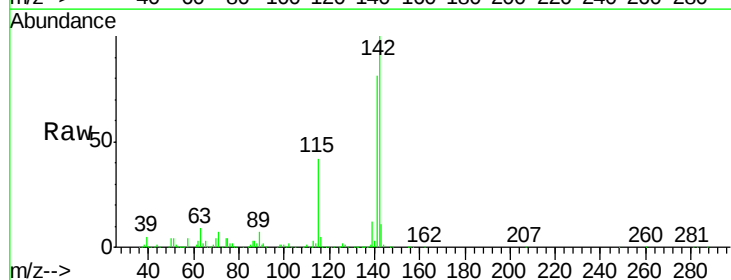
RT: 25.02 min Scan# 6916

Delta R.T. 0.01 min

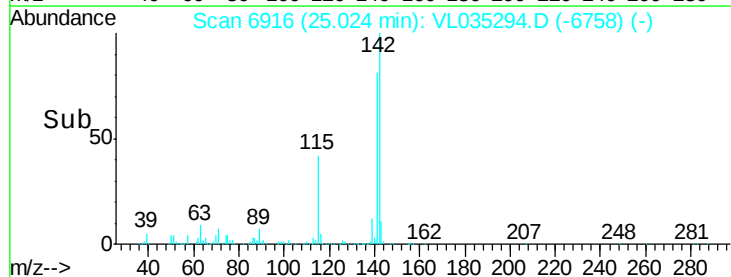
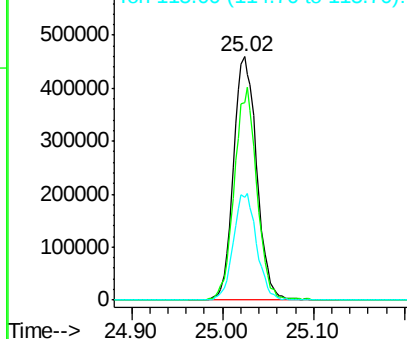
Lab File: VL035294.D

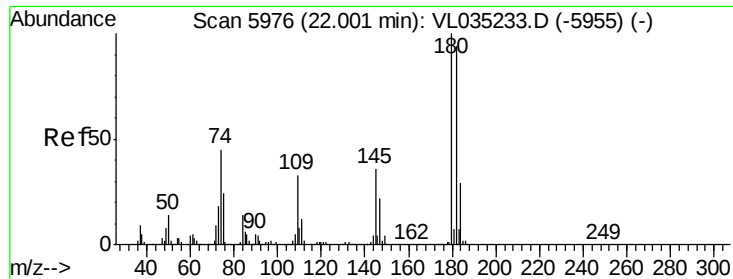
Acq: 31 Jul 2020 00:28

Tgt Ion:	142	Resp:	815713
Ion	Ratio	Lower	Upper
142	100		
141	84.6	68.6	103.0
115	43.7	34.5	51.7



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: 9.394 ppbv
 RT: 22.00 min Scan# 5977
 Delta R.T. 0.00 min
 Lab File: VL035294.D
 Acq: 31 Jul 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.7	115.1
184	31.2	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
 8/3/2020 12:36:32 PM

