

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080520\
 Data File : VL035333.D
 Acq On : 5 Aug 2020 8:40
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 8/6/2020 12:48:49 PM

Quant Time: Aug 05 09:33:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 0
 QLast Update : Tue Aug 04 12:30:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1438333	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	3615383	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.12	117	3623195m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2954640	9.74	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.01	85	1613507	8.574	ppbv	99
3) Chlorodifluoromethane	2.94	51	1440972	8.717	ppbv	100
4) Chloromethane	3.10	50	824741	8.738	ppbv	99
5) Vinyl Chloride	3.21	62	828437	9.014	ppbv	99
6) Bromomethane	3.43	94	536573	8.876	ppbv	95
7) Chloroethane	3.52	64	315214	8.628	ppbv	99
8) Dichlorotetrafluoroethane	3.14	85	1997435	8.799	ppbv	98
9) Propene	2.96	41	562903	9.424	ppbv	100
10) Heptane	8.13	43	1618250	10.556	ppbv	98
11) Trichlorofluoromethane	3.92	101	2181743	8.876	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1540639	8.992	ppbv	99
13) Ethanol	3.57	45	139433	6.319	ppbv	94
14) Bromoethene	3.70	108	664840	9.423	ppbv	100
15) Acetone	3.82	43	1600547	7.696	ppbv	99
16) 1,3-Butadiene	3.29	39	755706	9.743	ppbv	97
17) tert-Butyl alcohol	4.26	59	1686532	8.903	ppbv	100
18) 1,1-Dichloroethene	4.26	96	704727	9.137	ppbv	92
19) Isopropyl Alcohol	3.93	45	1070175	8.191	ppbv	99
20) Methylene Chloride	4.31	84	636176	6.697	ppbv	97
21) Allyl Chloride	4.38	41	1106048	9.390	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	692415	9.049	ppbv	98
23) Vinyl Acetate	5.06	43	2017003	9.787	ppbv	98
24) 1,1-Dichloroethane	4.99	63	1694615	8.837	ppbv	99
25) Ethyl Acetate	5.66	43	2905668	9.242	ppbv	99
26) Hexane	5.67	57	1300117	9.236	ppbv	98
27) Carbon Disulfide	4.52	76	1829342	9.659	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	2003632	9.472	ppbv	100
29) Chloroform	5.74	83	2099490	8.818	ppbv	99
30) Cyclohexane	7.13	84	1094333	10.364	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1264350	9.737	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	2087505	9.067	ppbv	99
34) 2-Butanone	5.23	43	1780508	9.354	ppbv	100
35) Carbon Tetrachloride	7.02	117	2243840	9.597	ppbv	99
36) Benzene	6.89	78	2551574	9.626	ppbv	100
37) 1,2-Dichloroethane	6.30	62	1614532	8.992	ppbv	100
38) Trichloroethene	7.84	130	1125944	11.560	ppbv	99
39) 1,2-Dichloropropane	7.62	63	978442	9.367	ppbv	100
40) 1,4-Dioxane	7.83	88	424581	9.358	ppbv #	96
41) Tetrahydrofuran	6.04	42	956109	10.183	ppbv	99
42) Bromodichloromethane	7.80	83	2273366	9.280	ppbv	99
43) Methyl Methacrylate	8.02	69	1153980	10.420	ppbv	99

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Manual Integrations
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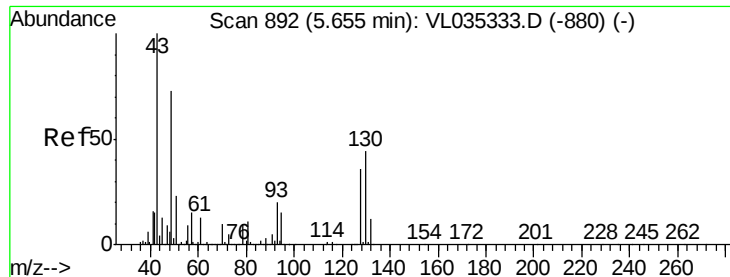
MMDadoda
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.87	57	4410883	9.714	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1313896	11.115	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1542001	10.895	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	1136771	9.376	ppbv	98
48) Dibromochloromethane	10.33	129	1997307	10.125	ppbv	99
49) Bromoform	13.07	173	1863037	10.842	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	2799429	10.413	ppbv	100
51) 2-Hexanone	10.15	43	2289233	11.006	ppbv #	98
52) Tetrachloroethene	11.25	164	985061	10.549	ppbv	95
53) Toluene	9.83	91	3079613	11.049	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1724682	9.610	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	1556772	9.155	ppbv	96
57) Chlorobenzene	12.18	112	2485729	8.964	ppbv	99
58) Ethyl Benzene	12.74	91	4168248	10.500	ppbv	96
59) m/p-Xylene	13.03	91	7113281m	19.420	ppbv	
60) o-Xylene	13.72	91	3586666	9.905	ppbv	98
61) Styrene	13.56	104	2560652	11.501	ppbv	99
62) Isopropylbenzene	14.70	105	5327584	9.753	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	2618876	9.220	ppbv	99
64) n-propylbenzene	15.60	120	1452596	10.165	ppbv	94
65) tert-Butylbenzene	16.78	119	4885556	9.988	ppbv	99
66) Benzyl Chloride	17.03	91	2004141	10.597	ppbv	100
67) sec-Butylbenzene	17.33	105	6757952	9.772	ppbv	99
69) p-Isopropyltoluene	17.69	119	5782584	10.107	ppbv	99
70) n-Butylbenzene	18.59	91	5983241	9.720	ppbv	99
71) 2-Chlorotoluene	15.49	91	4132729	10.137	ppbv	99
72) 4-Ethyltoluene	15.88	105	4347768	10.641	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	4093055	10.227	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	4338882	9.455	ppbv	97
75) 1,3-Dichlorobenzene	17.04	146	2601164	9.113	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	2582365	9.557	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	2515860	9.557	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1963448	9.186	ppbv	98
79) Naphthalene	22.26	128	4103977	11.300	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1479573	13.874	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	2304480	10.430	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1438333

Ion Ratio Lower Upper

49 100

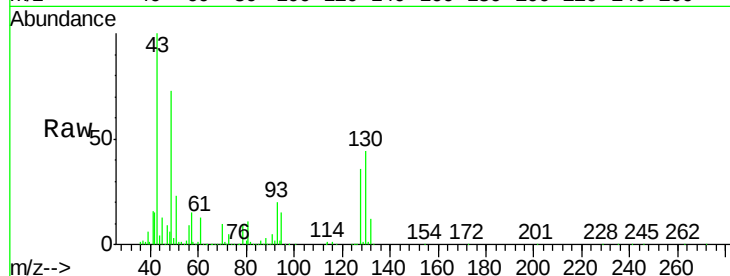
128 50.7 25.3 75.9

130 64.2 32.5 97.4

Manual Integrations
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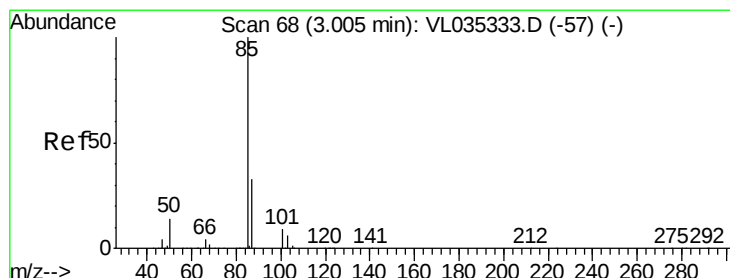
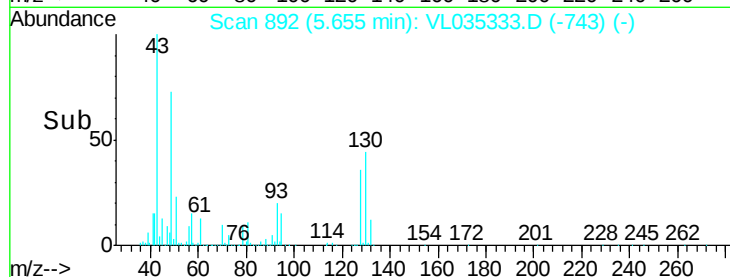
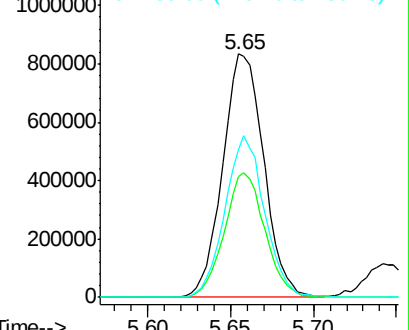
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.574 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL035333.D

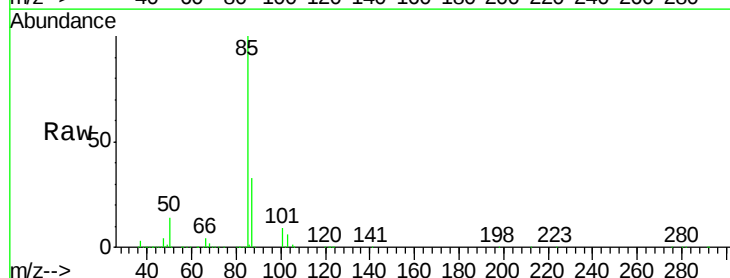
Acq: 5 Aug 2020 8:40

Tgt Ion: 85 Resp: 1613507

Ion Ratio Lower Upper

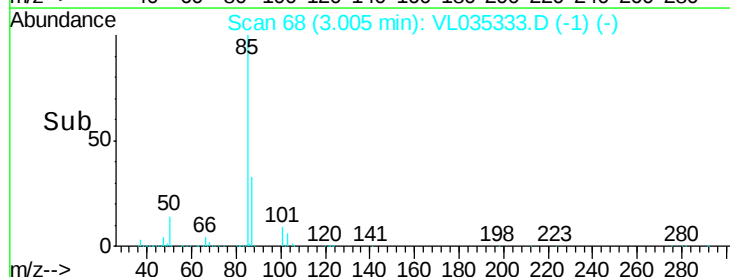
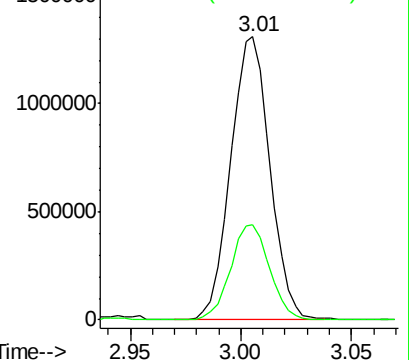
85 100

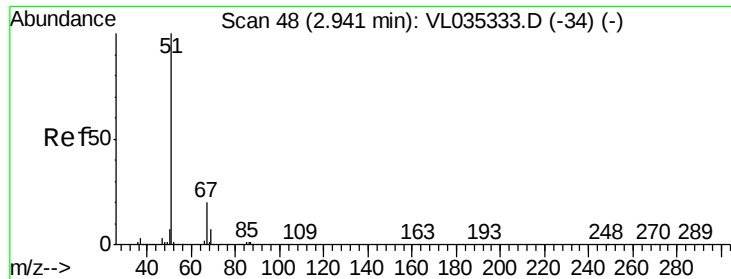
87 33.4 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.717 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tot Ion: 51 Resp: 1440972

Ion Ratio Lower Upper

51 100

67 20.8 16.7 25.1

Instrument :

MSVOA_L

ClientSampleId :

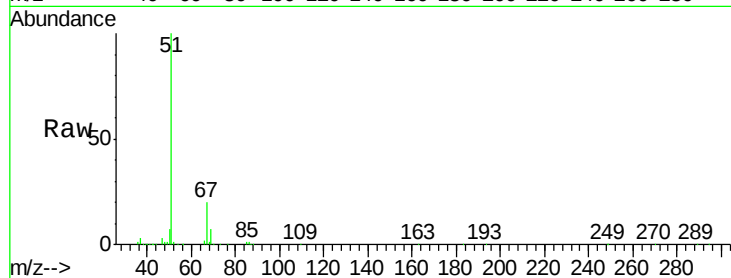
VSTDICCC010

Manual Integrations

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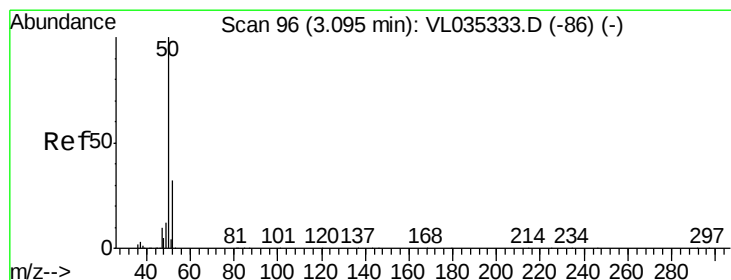
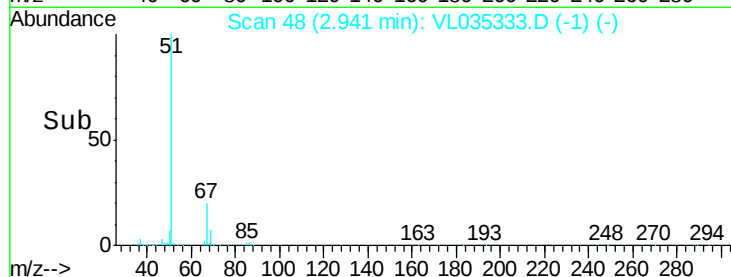
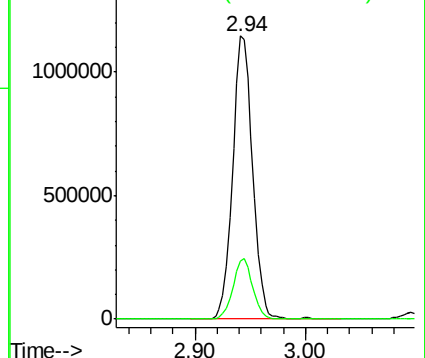
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.738 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL035333.D

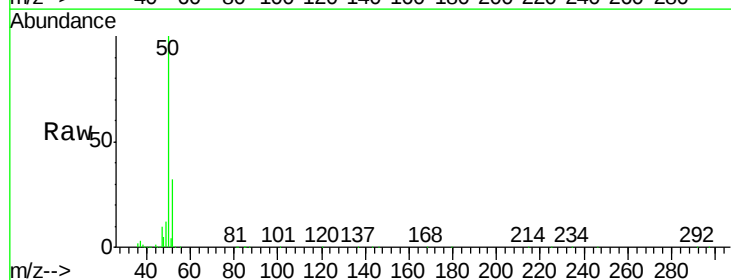
Acq: 5 Aug 2020 8:40

Tgt Ion: 50 Resp: 824741

Ion Ratio Lower Upper

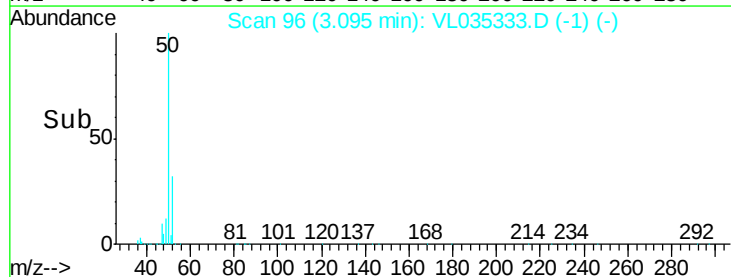
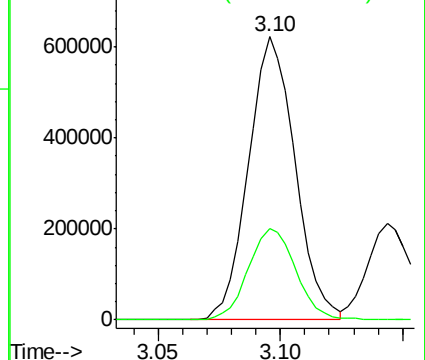
50 100

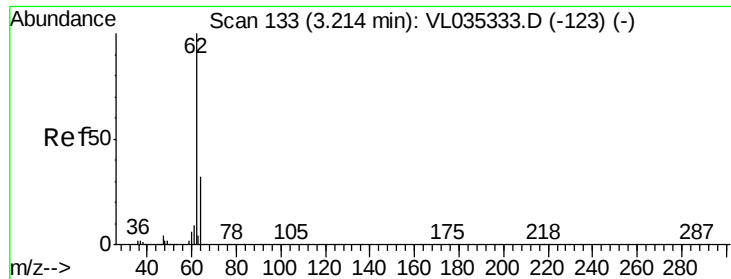
52 32.5 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.014 ppbv

RT: 3.21 min Scan# 133

Delta R.T. -0.01 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 828437

Ion Ratio Lower Upper

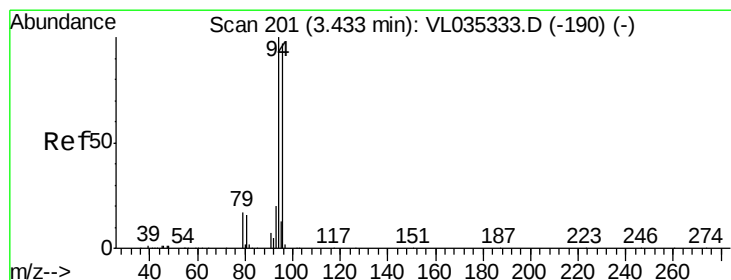
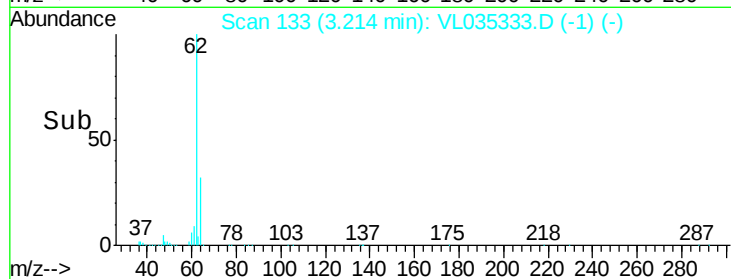
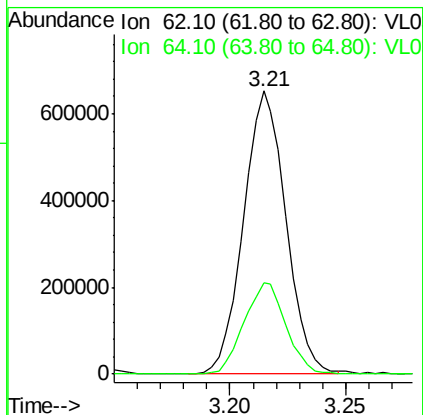
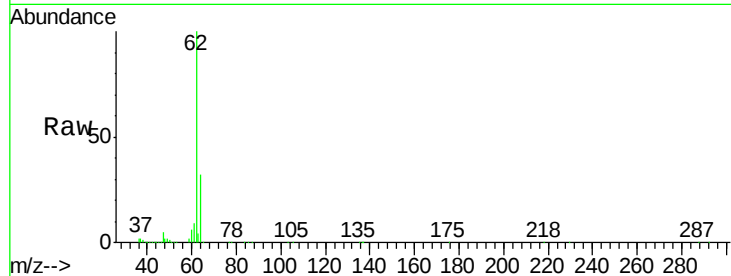
62 100

64 32.2 25.3 37.9

Manual Integrations
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#6

Bromomethane

Concen: 8.876 ppbv

RT: 3.43 min Scan# 201

Delta R.T. -0.01 min

Lab File: VL035333.D

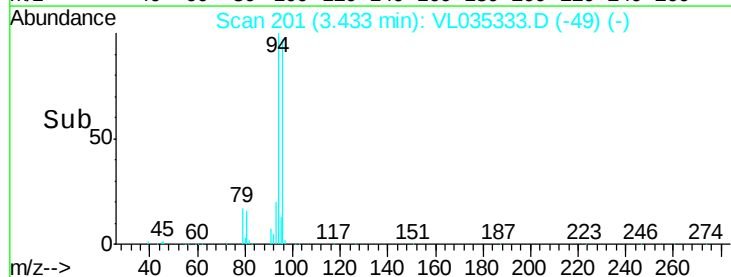
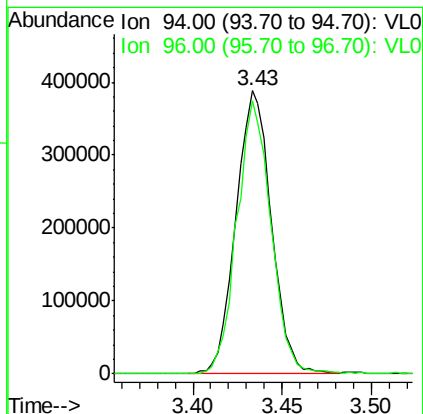
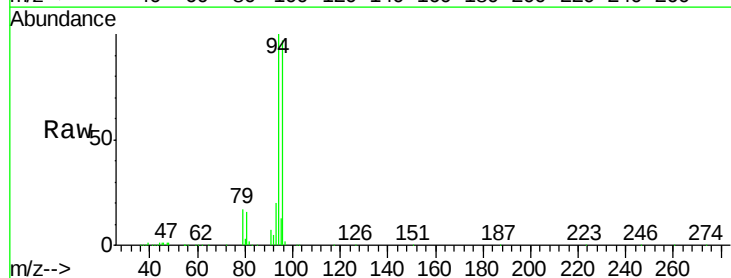
Acq: 5 Aug 2020 8:40

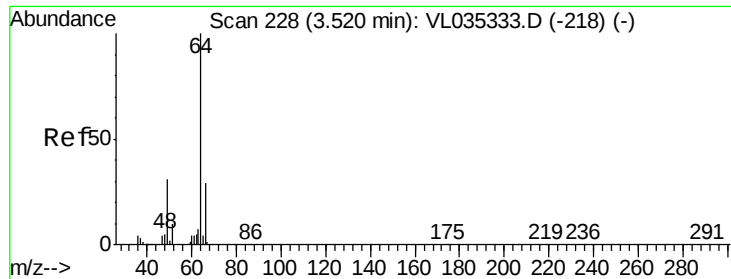
Tgt Ion: 94 Resp: 536573

Ion Ratio Lower Upper

94 100

96 96.6 73.8 110.6





#7

Chloroethane

Concen: 8.628 ppbv

RT: 3.52 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 315214

Ion Ratio Lower Upper

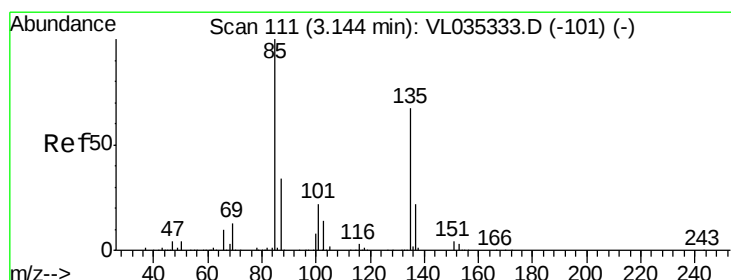
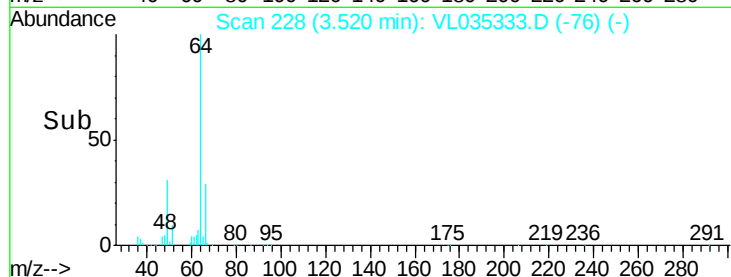
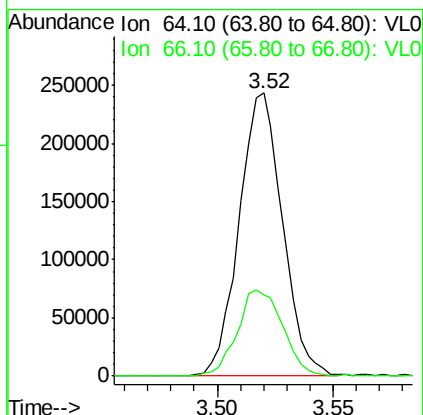
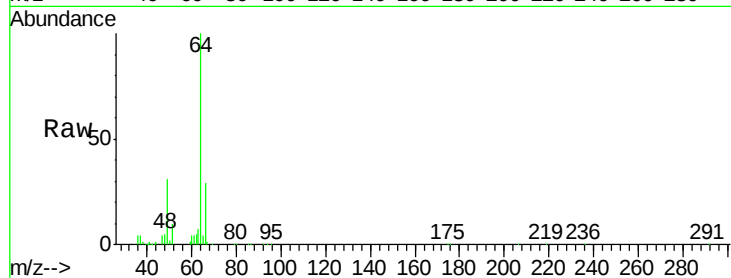
64 100

66 28.8 23.4 35.0

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 8.799 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.01 min

Lab File: VL035333.D

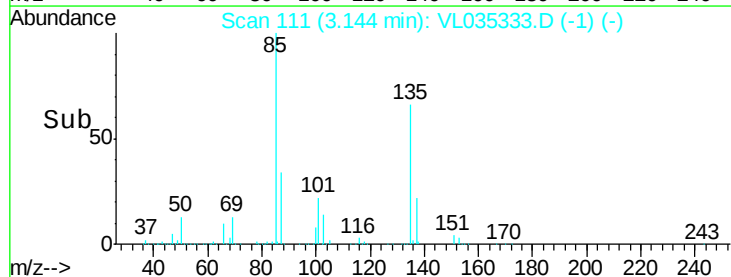
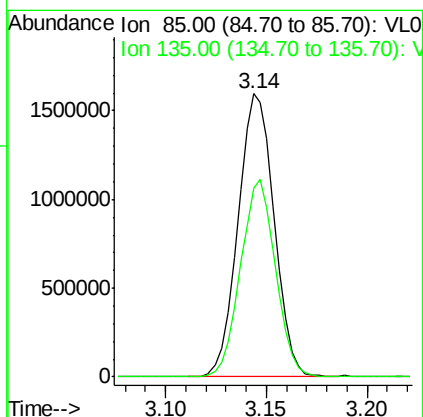
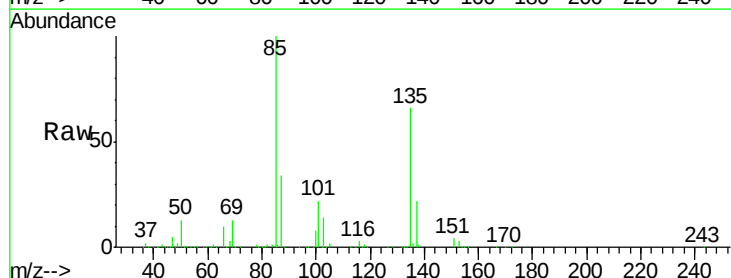
Acq: 5 Aug 2020 8:40

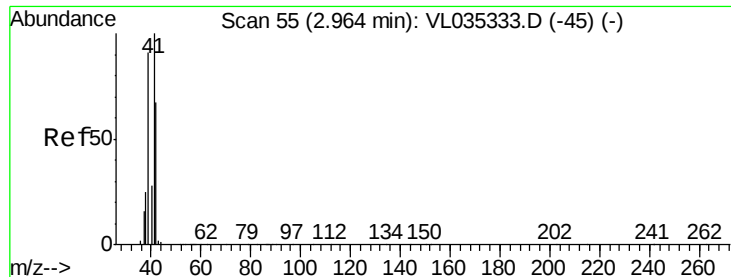
Tgt Ion: 85 Resp: 1997435

Ion Ratio Lower Upper

85 100

135 68.1 53.1 79.7





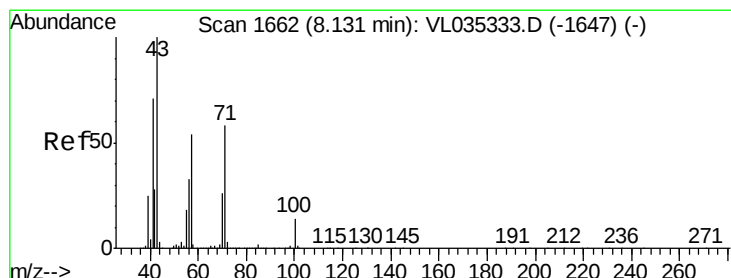
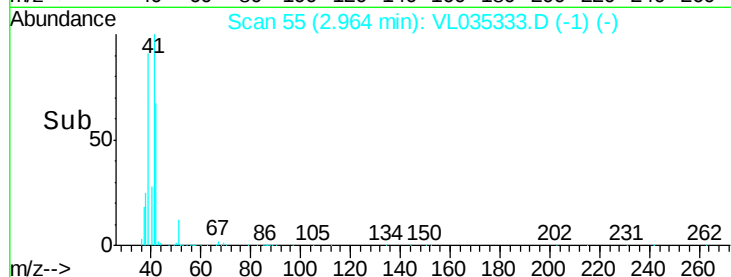
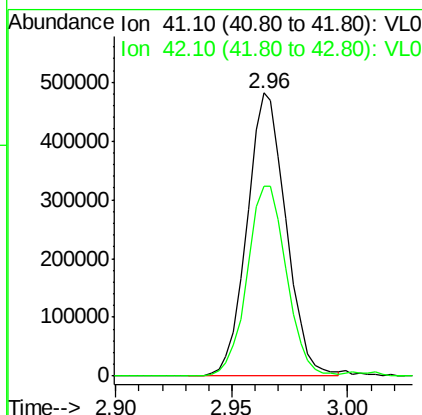
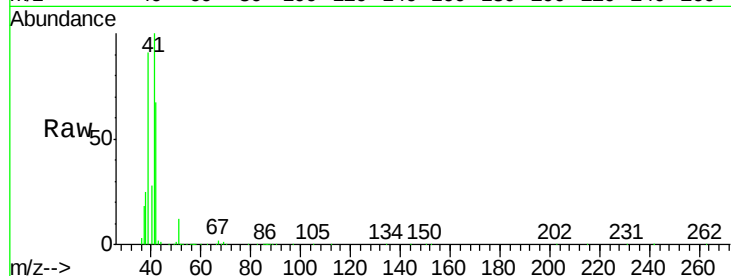
#9
 Propene
 Concen: 9.424 ppbv
 RT: 2.96 min Scan# 55
 Delta R.T. -0.01 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 41 Resp: 562903
 Ion Ratio Lower Upper
 41 100
 42 69.1 55.0 82.6

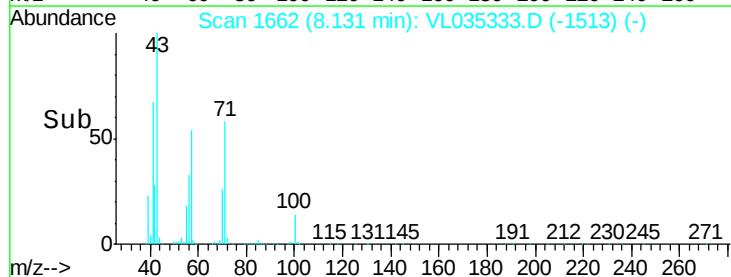
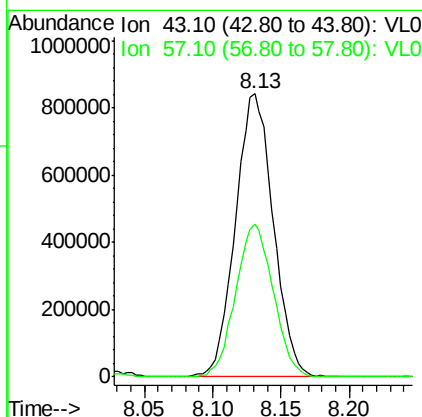
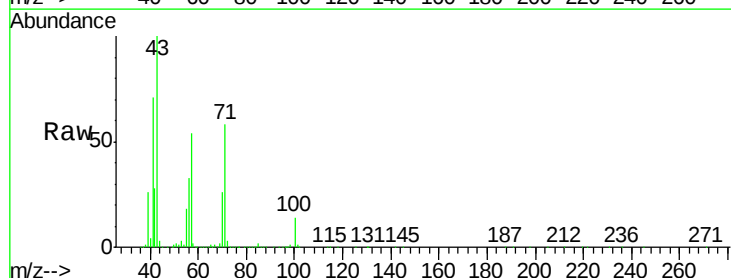
Manual Integrations
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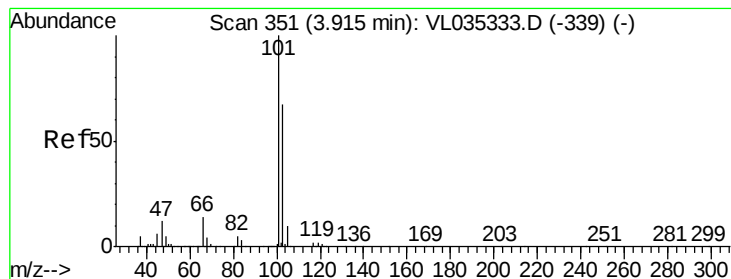
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#10
 Heptane
 Concen: 10.556 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion: 43 Resp: 1618250
 Ion Ratio Lower Upper
 43 100
 57 53.8 41.8 62.6





#11

Trichlorofluoromethane

Concen: 8.876 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:101 Resp: 2181743

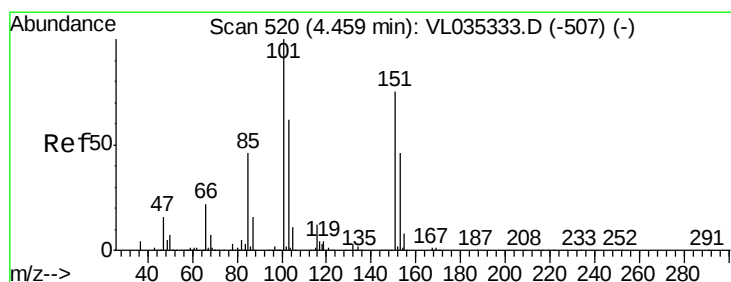
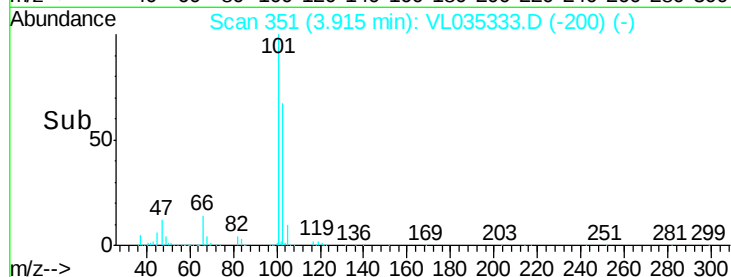
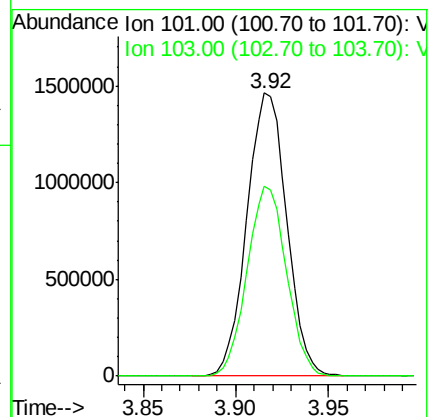
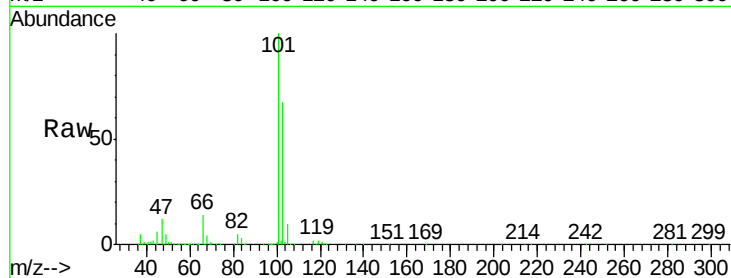
Ion Ratio Lower Upper

101 100

103 67.3 51.8 77.8

Manual Integrations
APPROVED

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.992 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.02 min

Lab File: VL035333.D

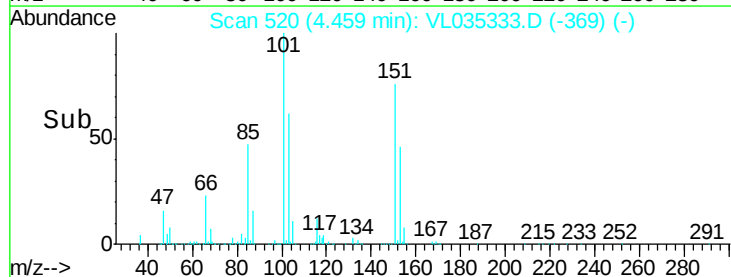
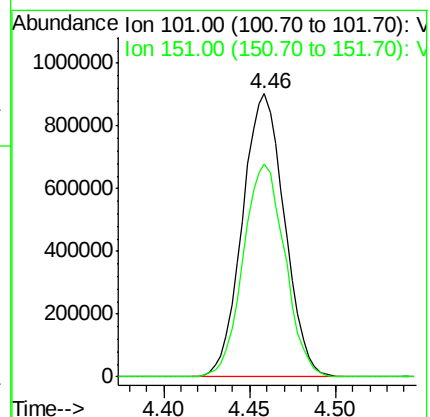
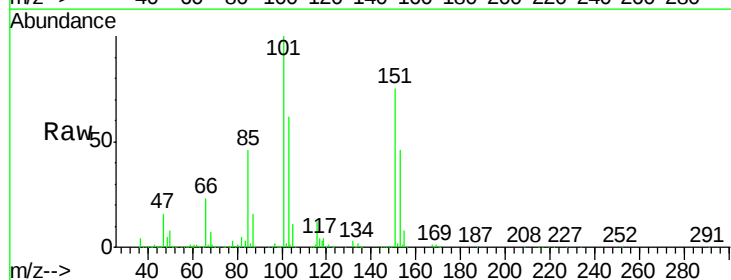
Acq: 5 Aug 2020 8:40

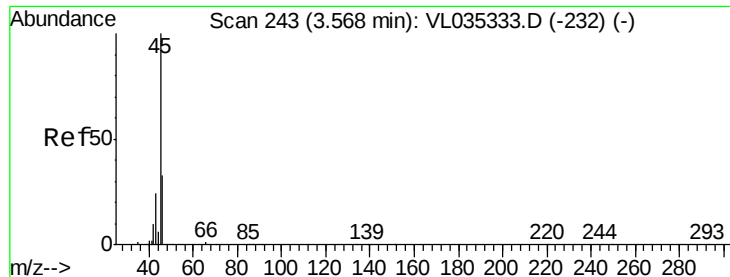
Tgt Ion:101 Resp: 1540639

Ion Ratio Lower Upper

101 100

151 74.4 58.8 88.2





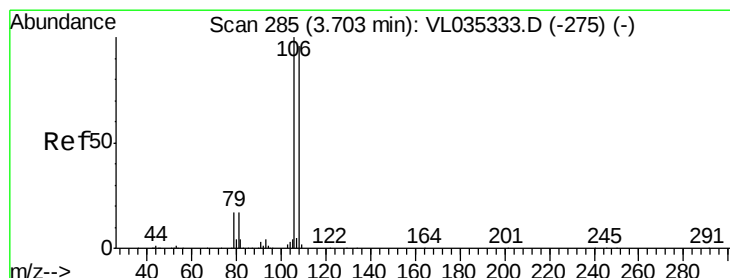
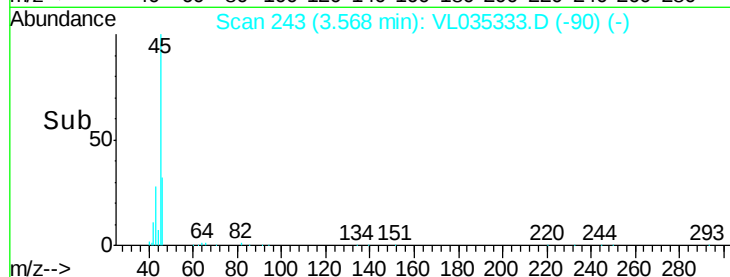
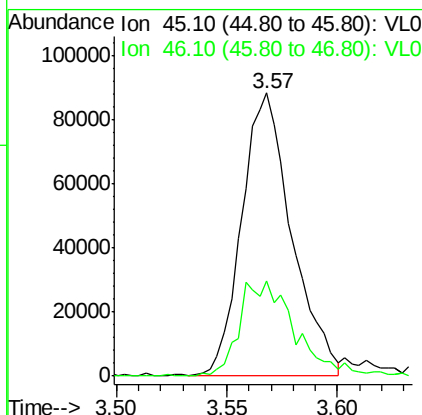
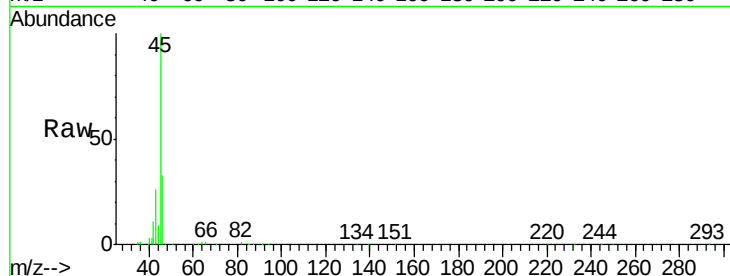
#13
Ethanol
Concen: 6.319 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.01 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.1	13.8	55.2

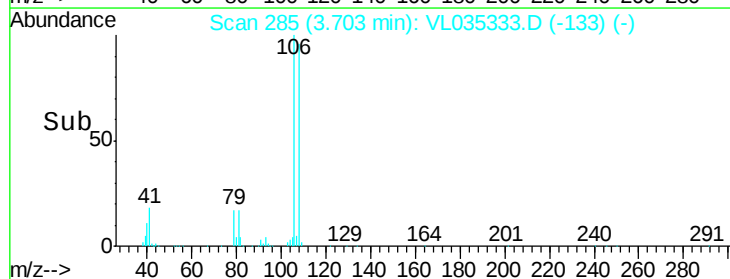
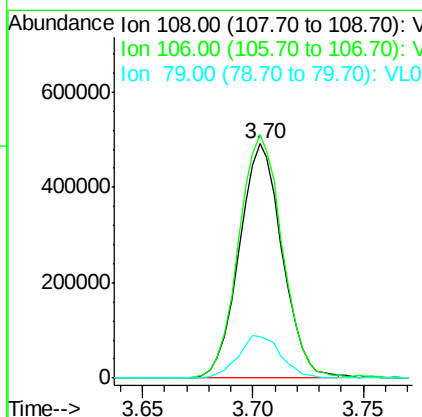
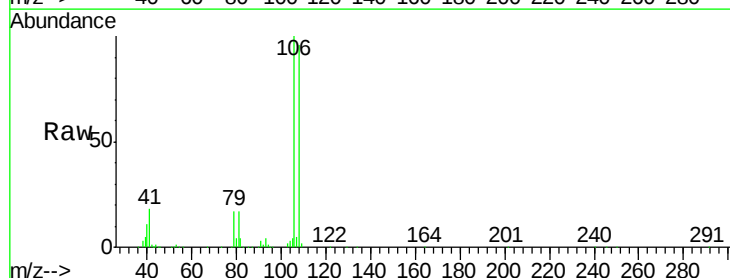
Manual Integrations
APPROVED

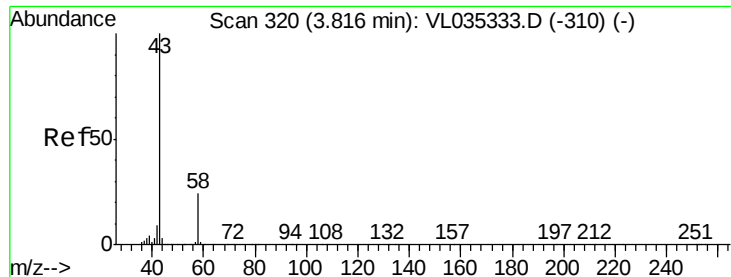
MMDadoda
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#14
Bromoethene
Concen: 9.423 ppbv
RT: 3.70 min Scan# 285
Delta R.T. -0.01 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.3	84.7	127.1
79	18.8	14.7	22.1





#15

Acetone

Concen: 7.696 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.01 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1600547

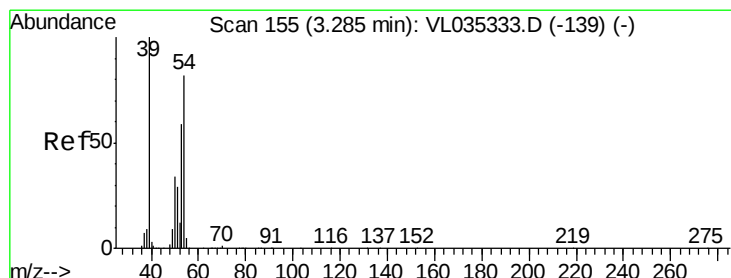
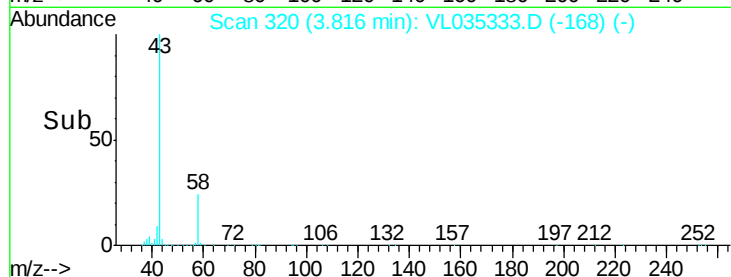
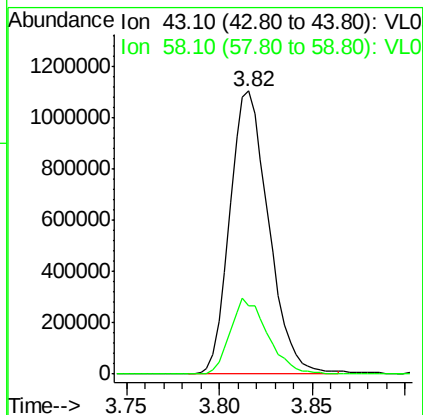
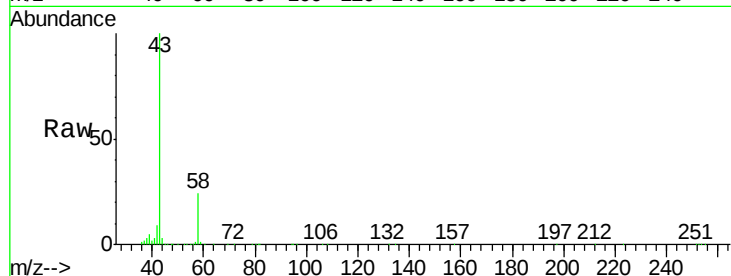
Ion Ratio Lower Upper

43 100

58 26.2 20.7 31.1

Manual Integrations
APPROVED

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#16

1,3-Butadiene

Concen: 9.743 ppbv

RT: 3.29 min Scan# 155

Delta R.T. -0.02 min

Lab File: VL035333.D

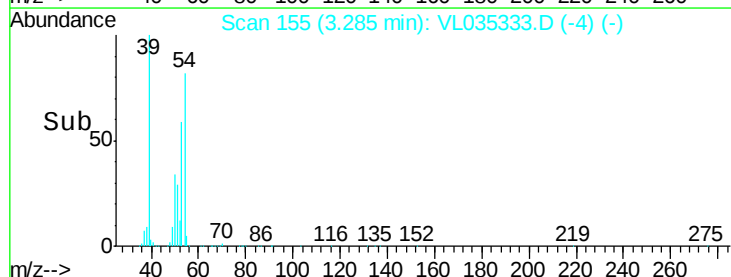
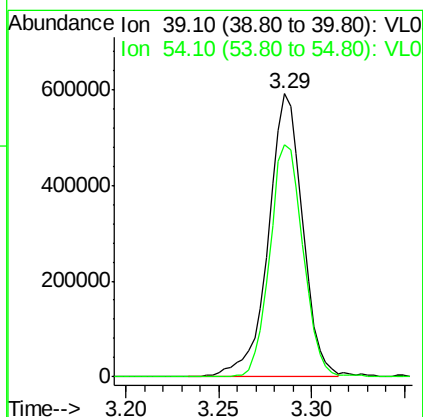
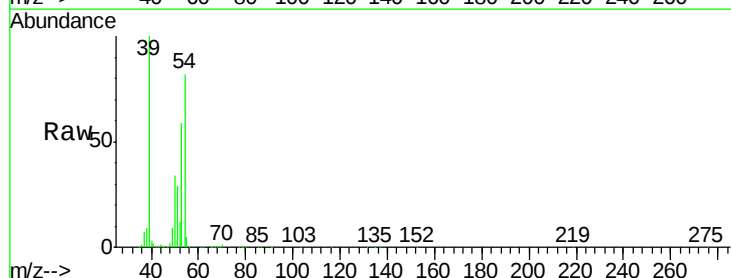
Acq: 5 Aug 2020 8:40

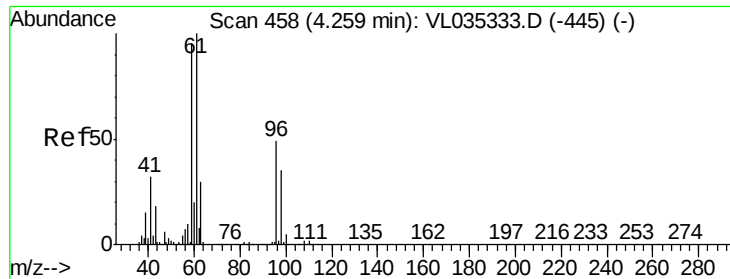
Tgt Ion: 39 Resp: 755706

Ion Ratio Lower Upper

39 100

54 80.5 66.7 100.1





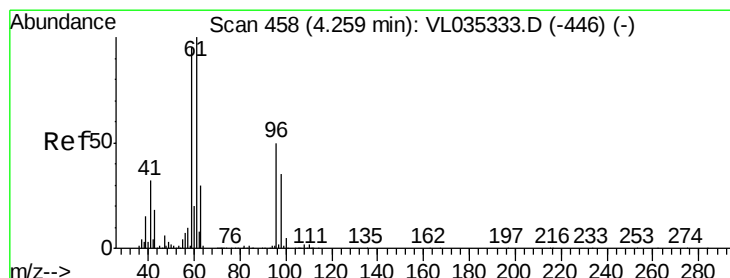
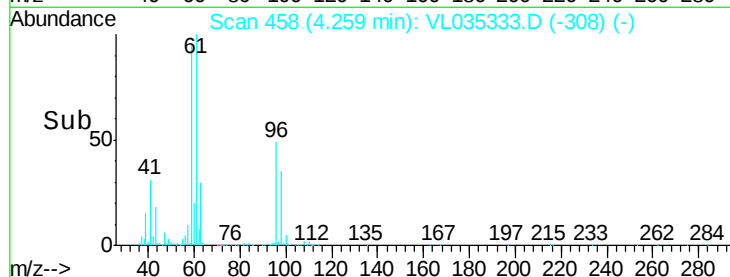
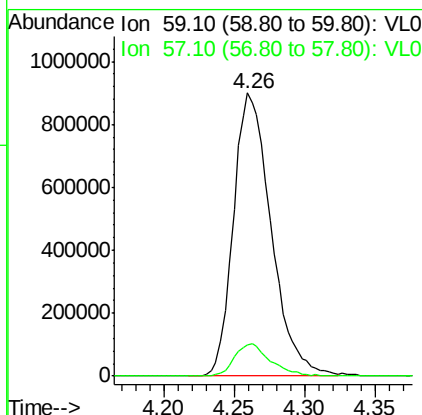
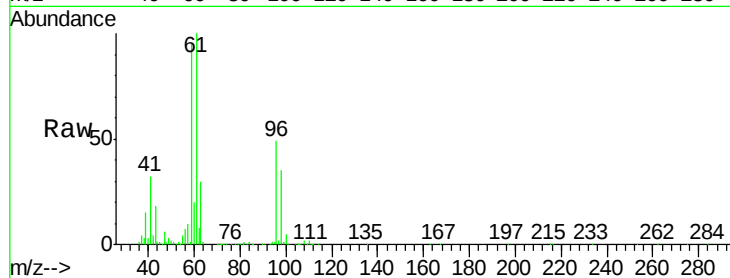
#17
 tert-Butyl alcohol
 Concen: 8.903 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDICCC010

Tot Ion: 59 Resp: 1686532
 Ion Ratio Lower Upper
 59 100
 57 11.0 8.8 13.2

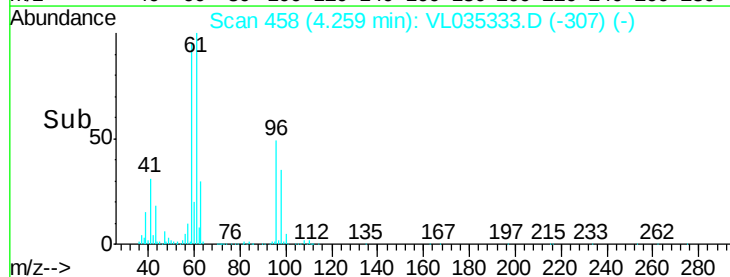
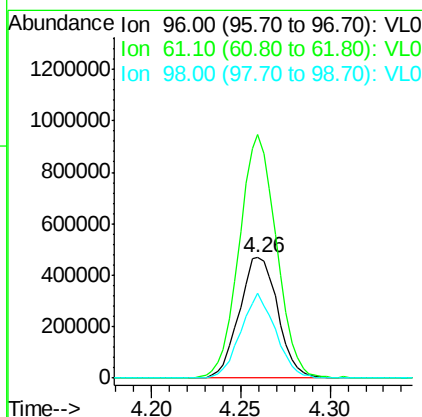
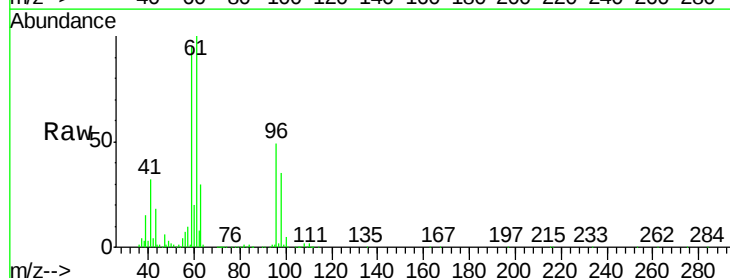
Manual Integrations
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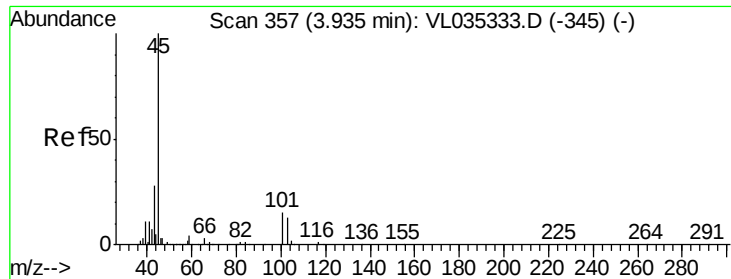
MMDadoda
 8/6/2020 12:48:49 PM



#18
 1,1-Dichloroethene
 Concen: 9.137 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion: 96 Resp: 704727
 Ion Ratio Lower Upper
 96 100
 61 201.8 152.9 229.3
 98 70.0 49.6 74.4





#19

Isopropyl Alcohol

Concen: 8.191 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tot Ion: 45 Resp: 1070175

Ion Ratio Lower Upper

45 100

58 2.4 2.2 3.2

Instrument :

MSVOA_L

ClientSampleId :

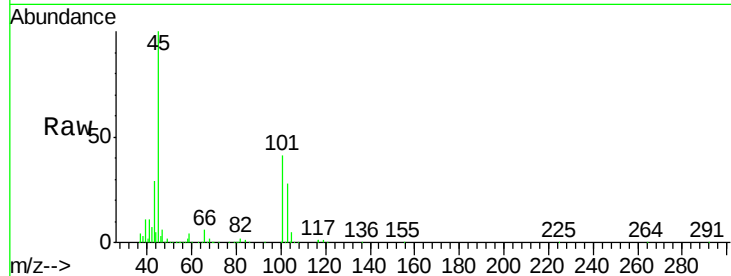
VSTDICCC010

Manual Integrations

APPROVED

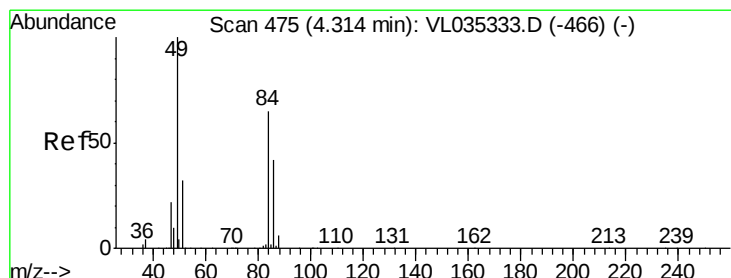
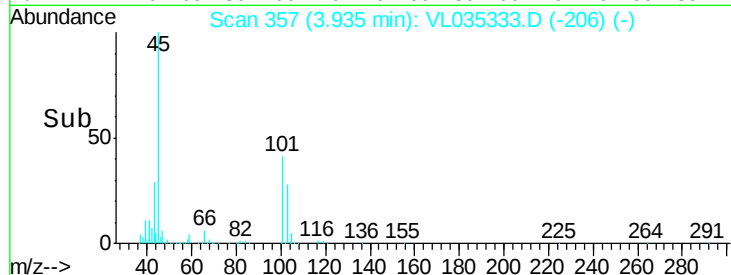
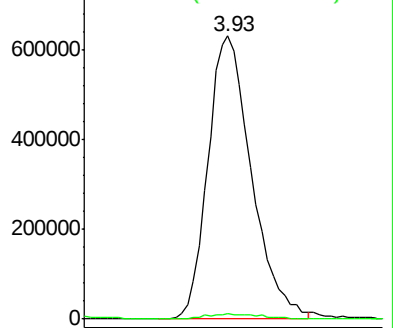
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 6.697 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tgt Ion: 84 Resp: 636176

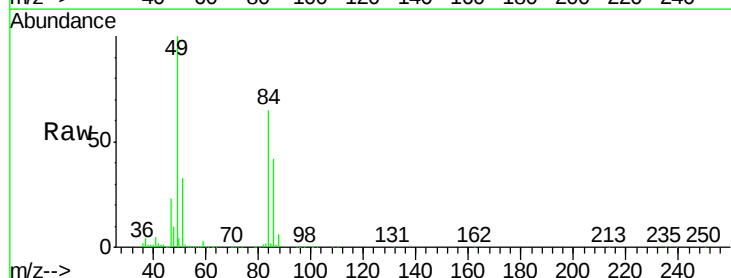
Ion Ratio Lower Upper

84 100

49 153.5 121.4 182.0

51 50.1 36.1 54.1

86 64.6 50.2 75.2

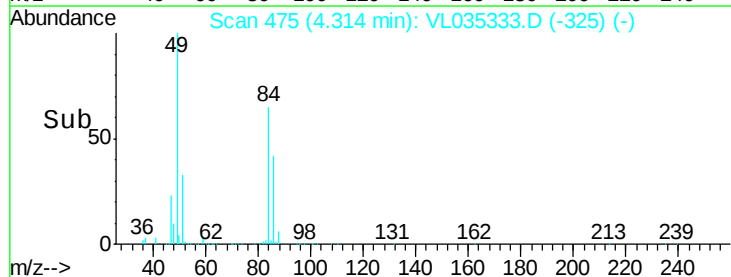
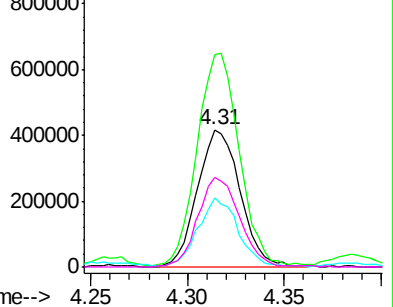


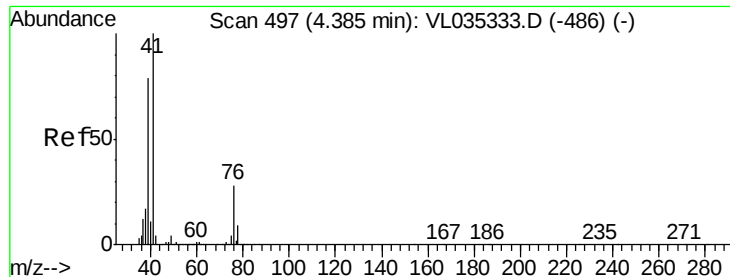
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allvl Chloride

Concen: 9.390 ppbv

RT: 4.38 min Scan# 497

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

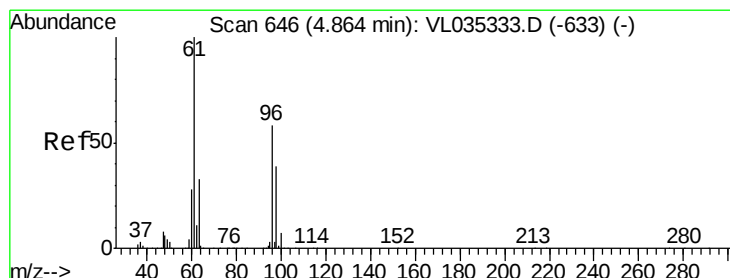
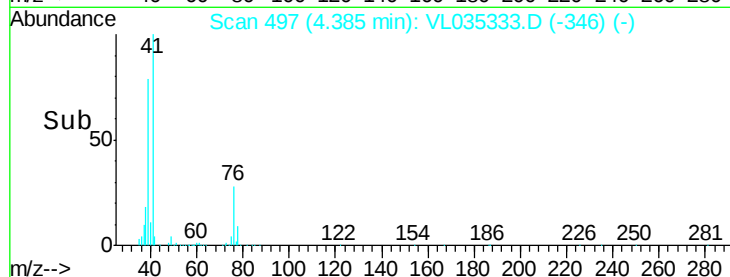
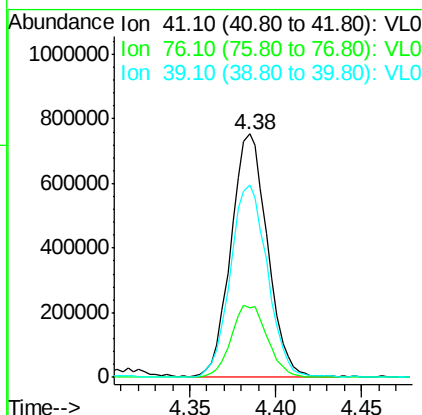
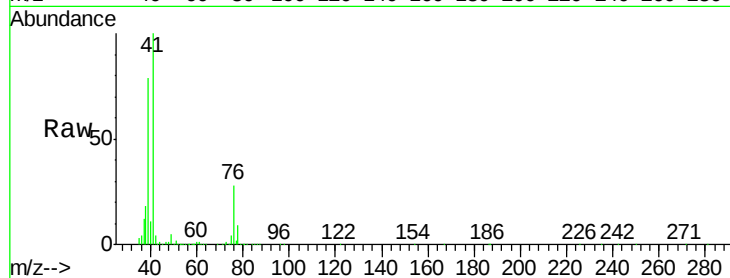
ClientSampleId :

VSTDICCC010

Tot Ion:	41	Resp:	1106048
Ion	Ratio	Lower	Upper
41	100		
76	29.7	23.9	35.9
39	81.3	64.2	96.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.049 ppbv

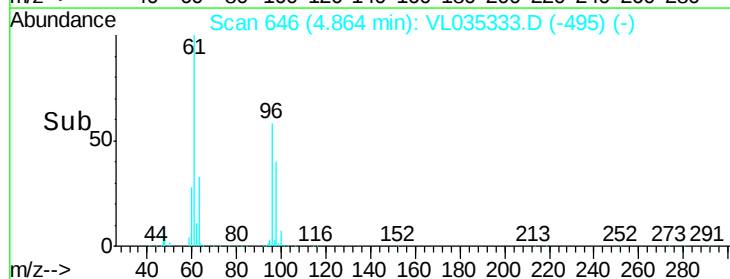
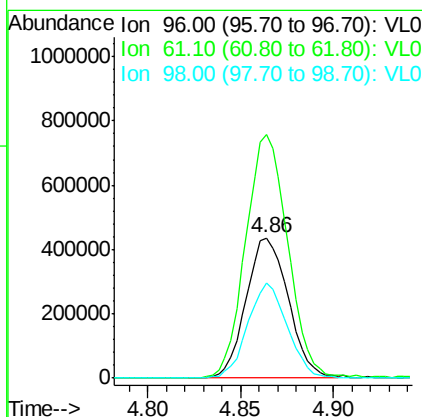
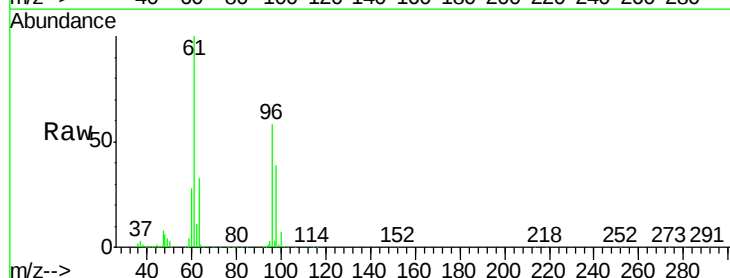
RT: 4.86 min Scan# 646

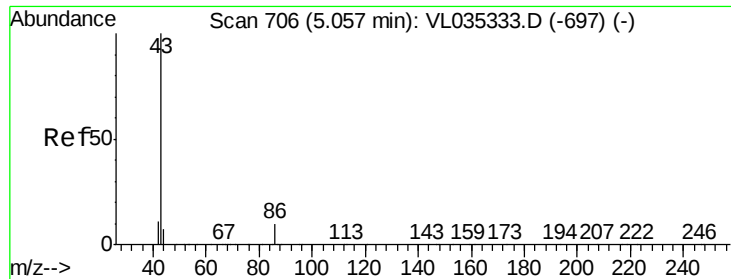
Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tgt Ion:	96	Resp:	692415
Ion	Ratio	Lower	Upper
96	100		
61	173.1	138.4	207.6
98	67.9	48.9	73.3





#23

Vinyl Acetate

Concen: 9.787 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tot Ion: 43 Resp: 2017003

Ion Ratio Lower Upper

43 100

86 8.6 6.3 9.5

42 11.0 8.0 12.0

44 6.3 4.6 6.8

Instrument :

MSVOA_L

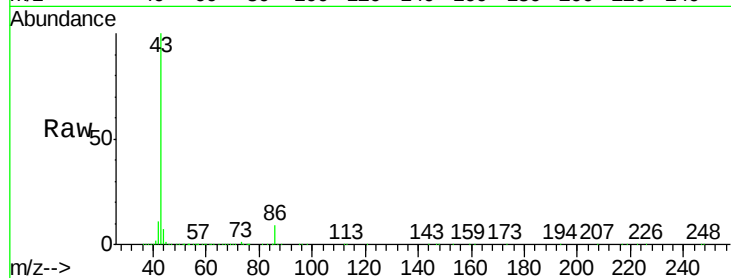
ClientSampleId :

VSTDICCC010

Manual Integrations
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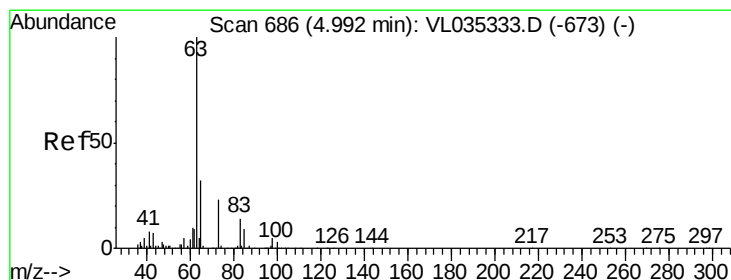
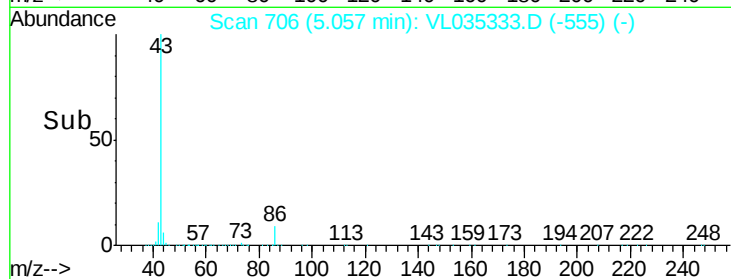
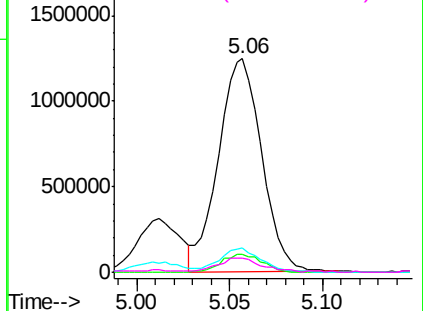


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.837 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

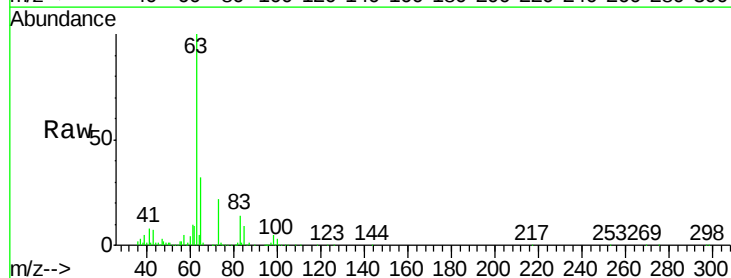
Tgt Ion: 63 Resp: 1694615

Ion Ratio Lower Upper

63 100

98 5.0 2.5 7.5

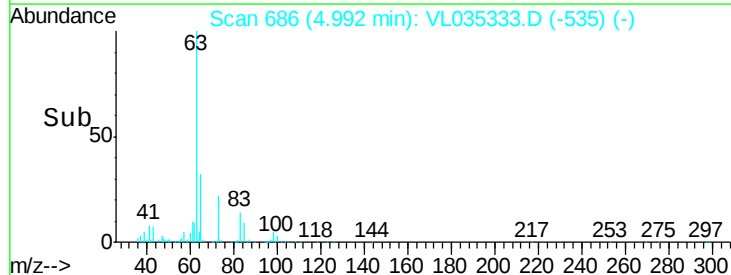
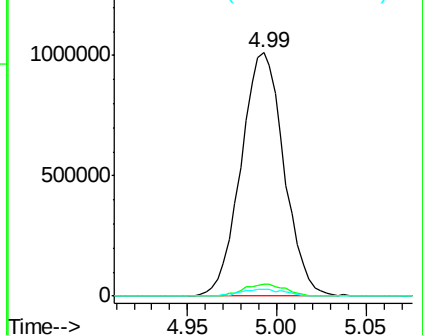
100 2.8 1.6 4.8

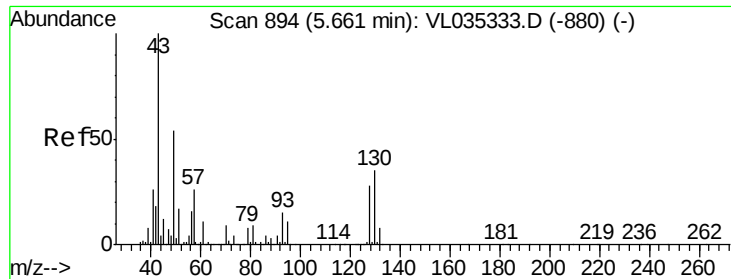


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





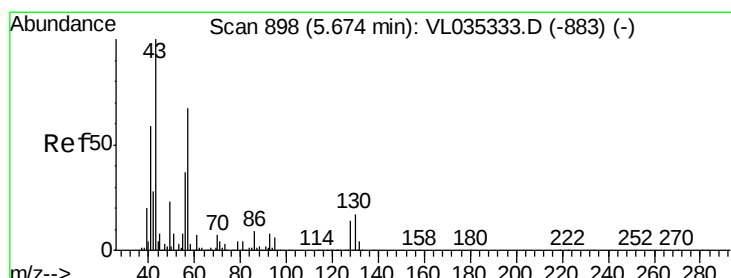
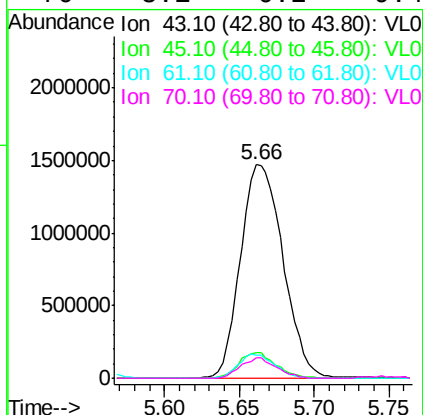
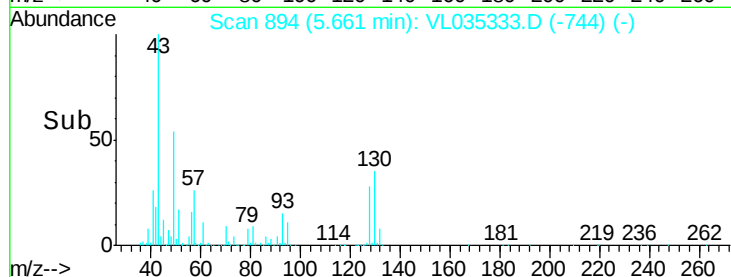
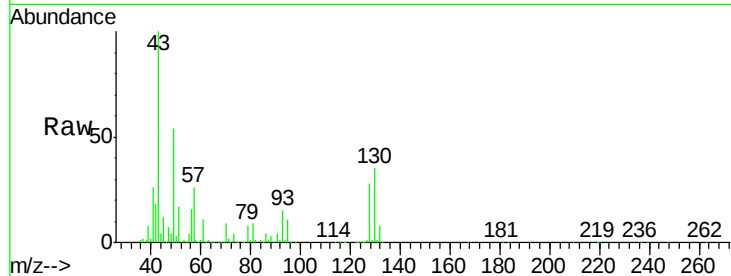
#25
Ethyl Acetate
Concen: 9.242 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	43	Resp	2905668
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.3	12.5
61	10.1	7.7	11.5
70	8.1	6.2	9.4

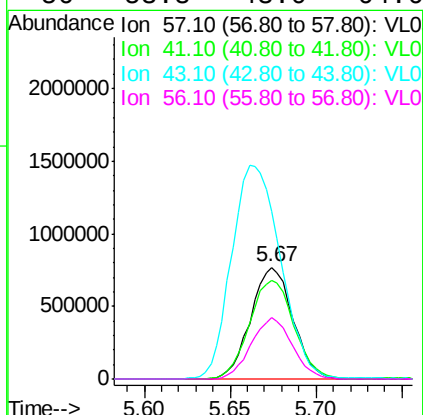
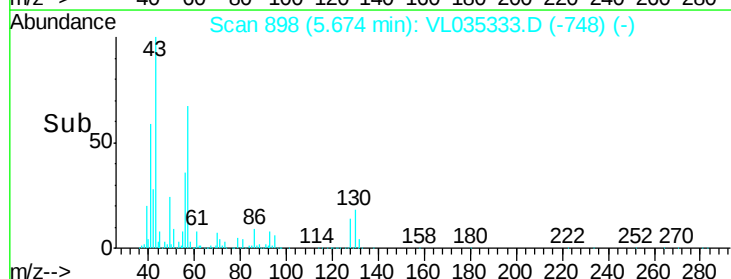
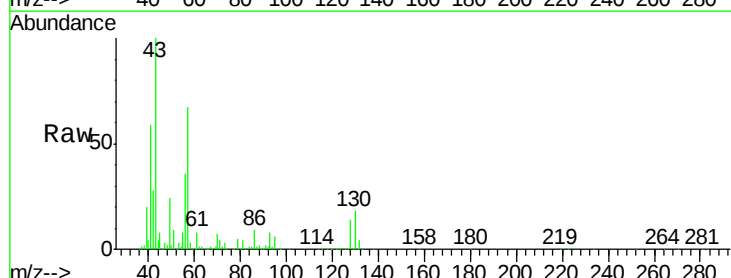
Manual Integrations
APPROVED

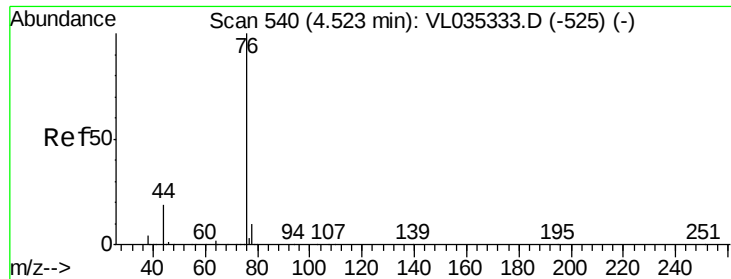
MMDadoda
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#26
Hexane
Concen: 9.236 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion	57	Resp	1300117
Ion	Ratio	Lower	Upper
57	100		
41	94.0	76.3	114.5
43	225.7	183.1	274.7
56	53.8	43.0	64.6





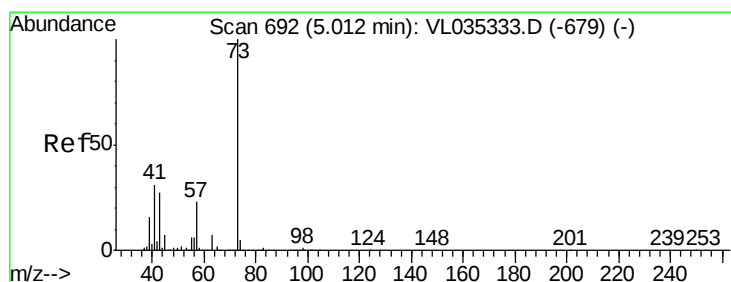
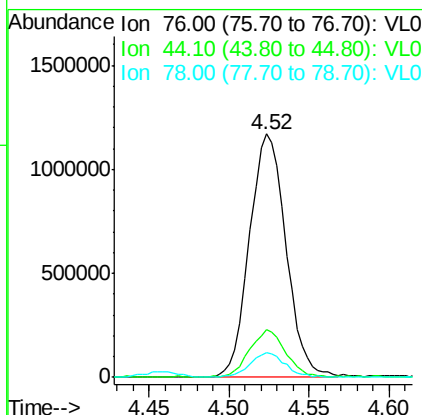
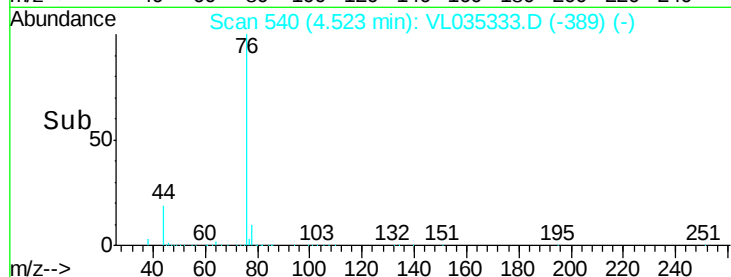
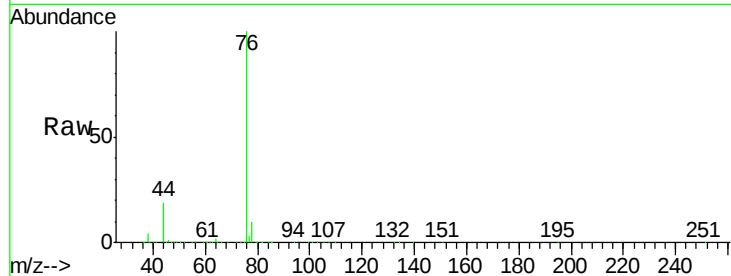
#27
Carbon Disulfide
Concen: 9.659 ppbv
RT: 4.52 min Scan# 540
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.3	15.0	22.6
78	9.6	7.4	11.0

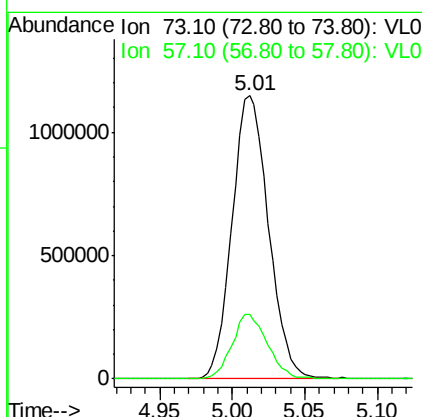
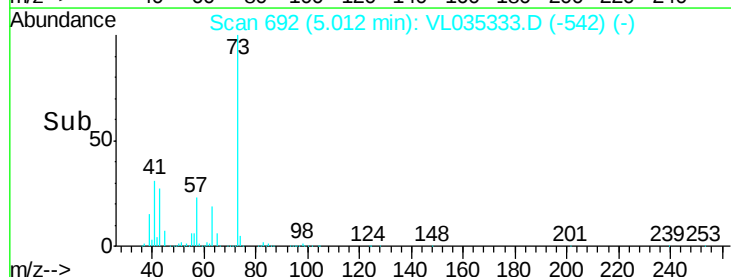
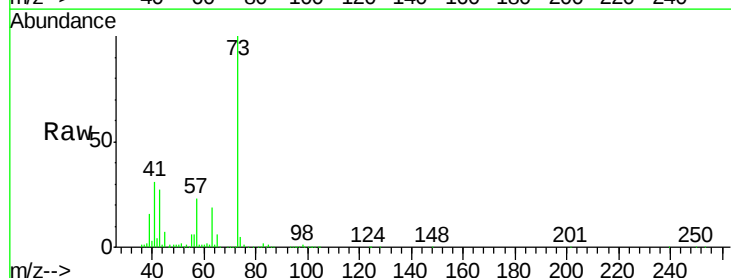
Manual Integrations
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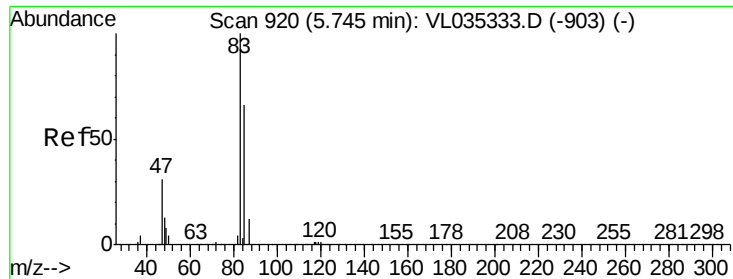
MMDadoda
8/6/2020 12:48:49 PM



#28
Methyl tert-Butyl Ether
Concen: 9.472 ppbv
RT: 5.01 min Scan# 692
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.9	26.9





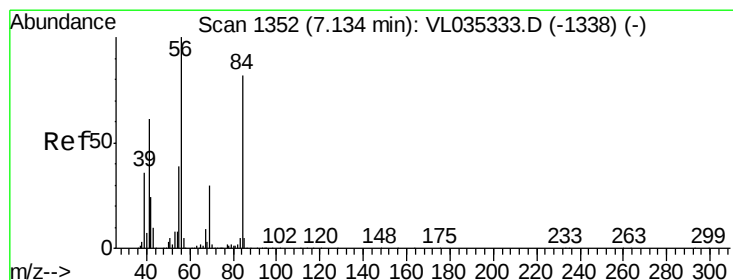
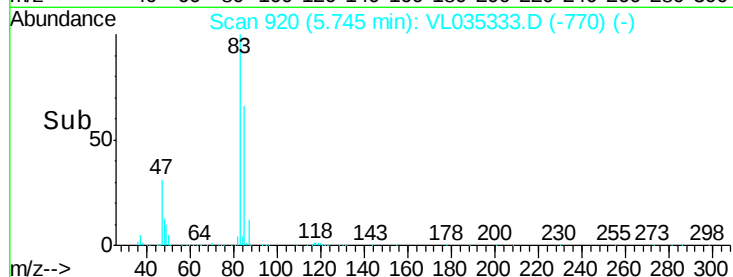
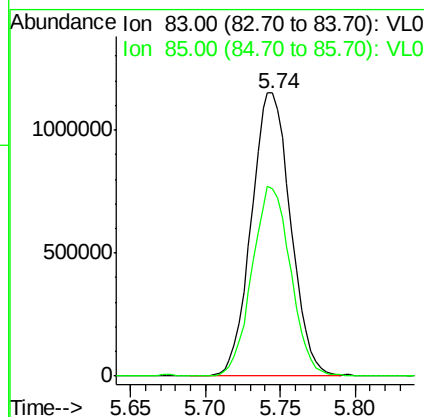
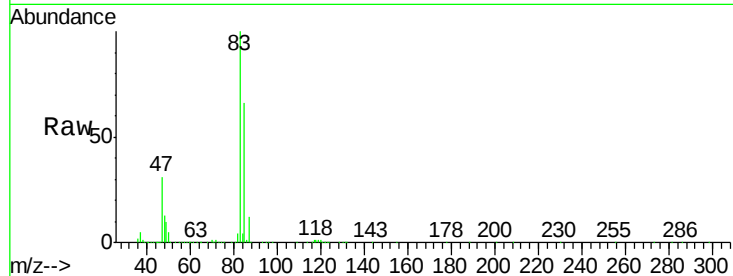
#29
Chloroform
Concen: 8.818 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 2099490
Ion Ratio Lower Upper
83 100
85 66.1 52.2 78.4

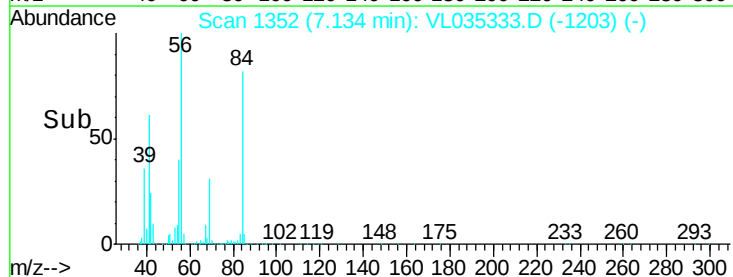
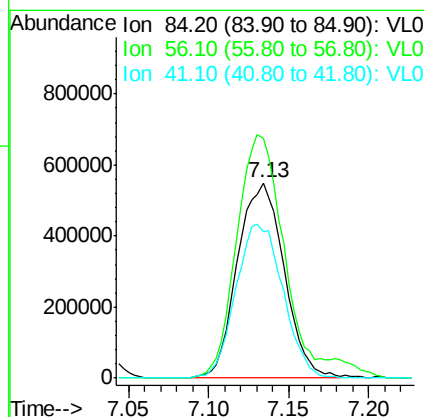
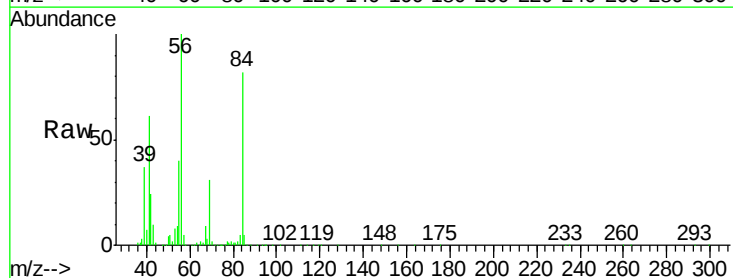
Manual Integrations
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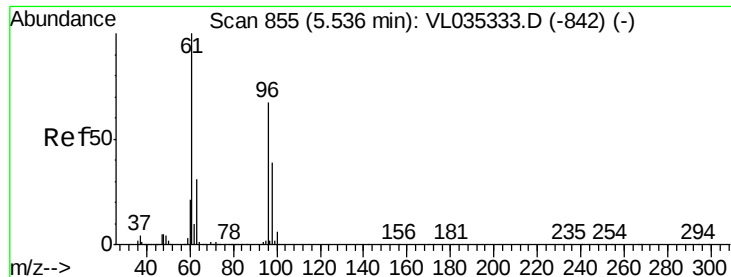
MMDadoda
8/6/2020 12:48:49 PM



#30
Cyclohexane
Concen: 10.364 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion: 84 Resp: 1094333
Ion Ratio Lower Upper
84 100
56 130.9 104.5 156.7
41 80.2 65.0 97.6





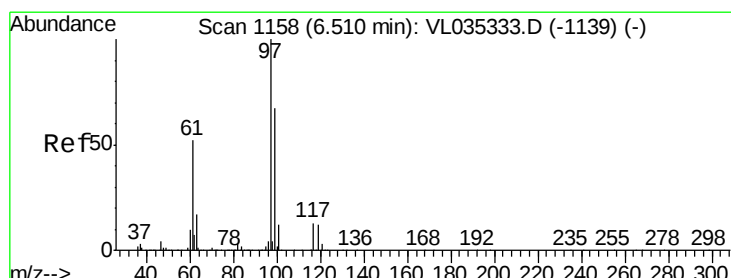
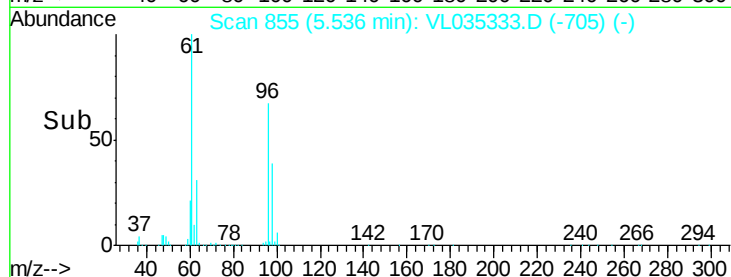
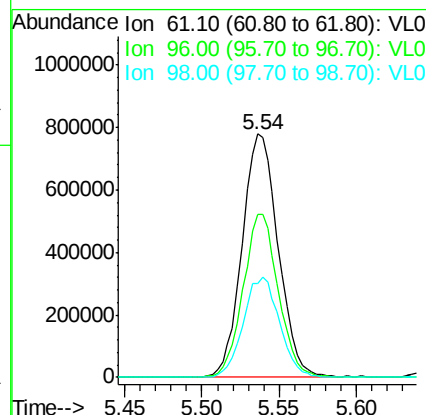
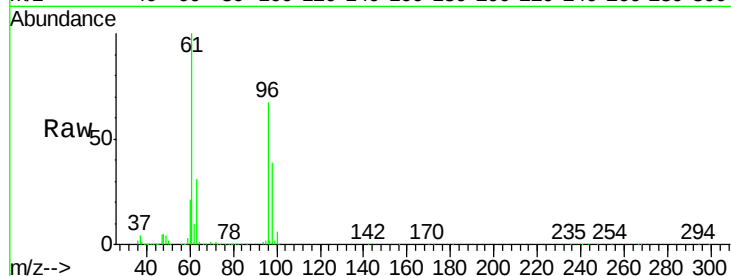
#31
 cis-1,2-Dichloroethene
 Concen: 9.737 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.0	50.8	76.2
98	38.7	31.0	46.6

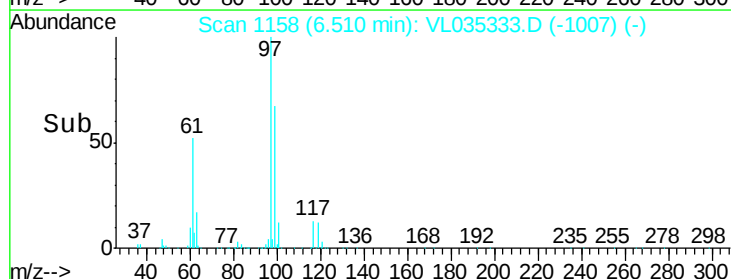
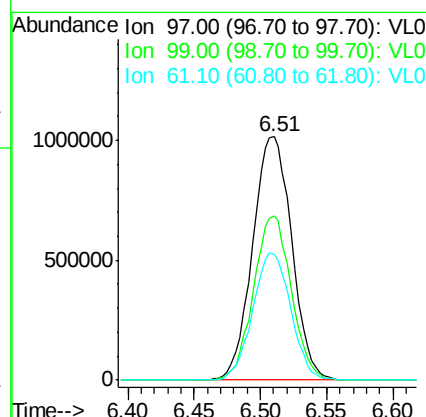
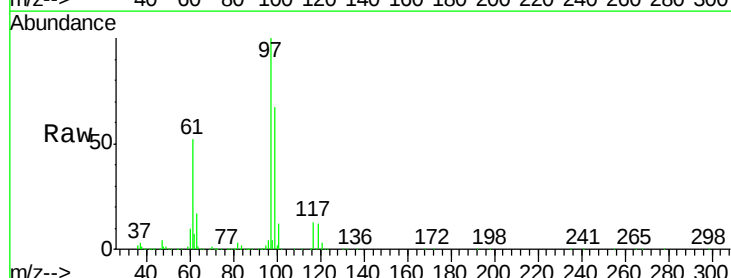
Manual Integrations
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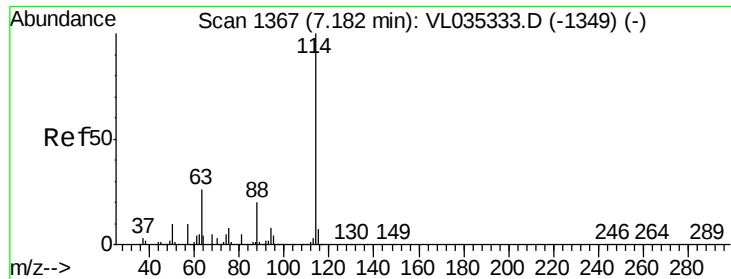
MMDadoda
 8/6/2020 12:48:49 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.067 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.8	77.8
61	51.1	40.5	60.7





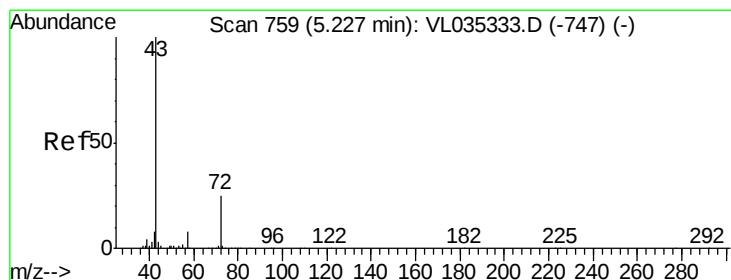
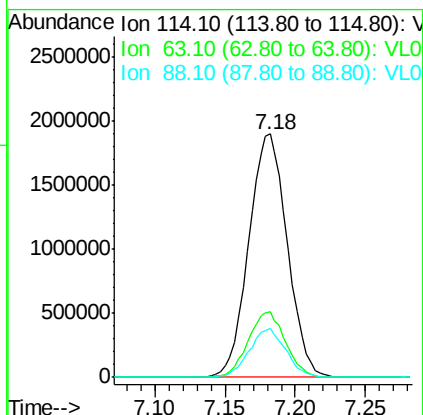
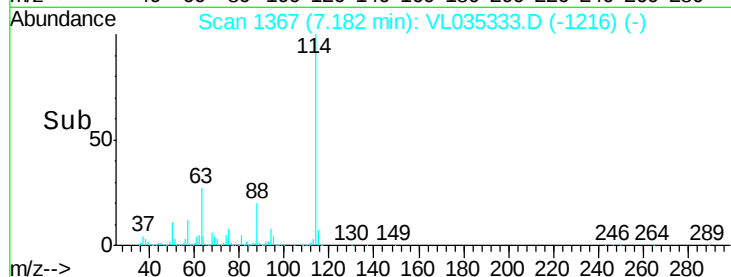
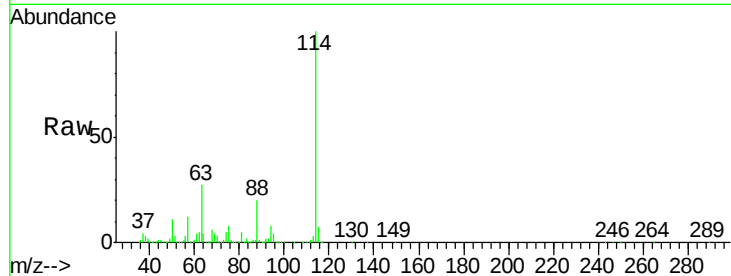
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.4	32.2
88	19.1	15.1	22.7

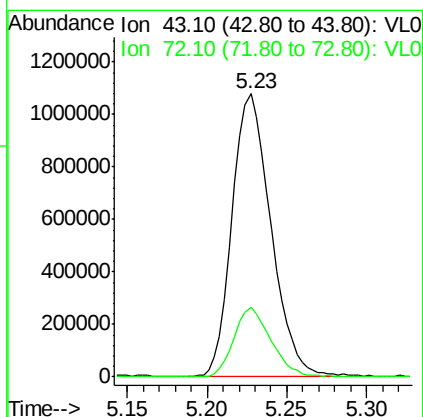
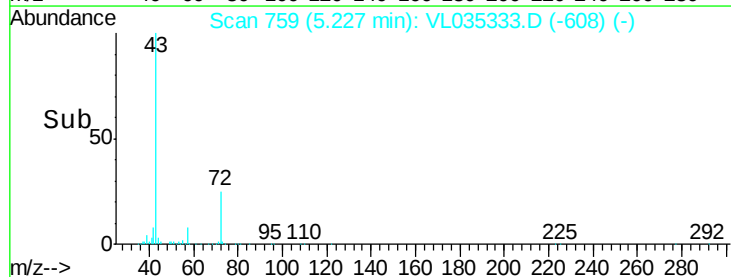
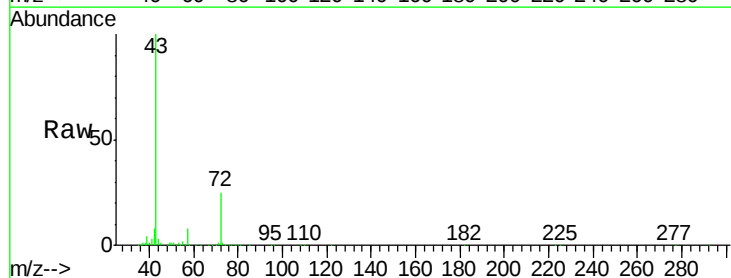
Manual Integrations
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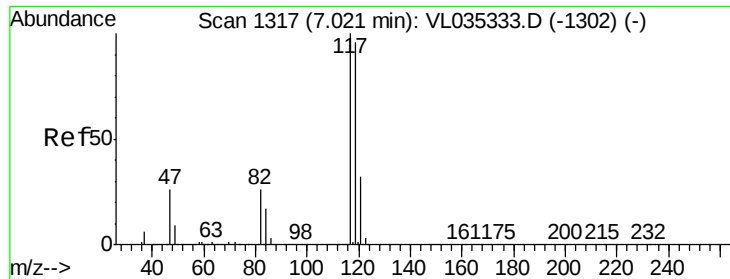
MMDadoda
 8/6/2020 12:48:49 PM



#34
 2-Butanone
 Concen: 9.354 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.9	28.3





#35

Carbon Tetrachloride

Concen: 9.597 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2243840

Ion Ratio Lower Upper

117 100

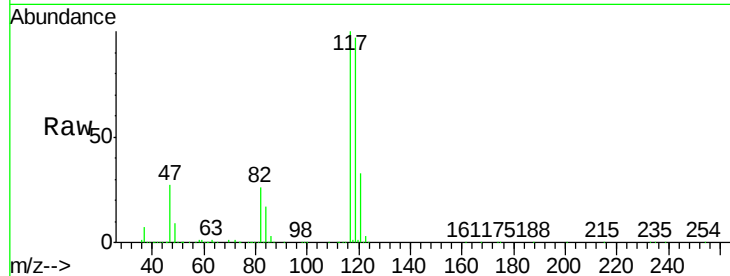
119 96.3 77.6 116.4

121 32.5 25.4 38.0

Manual Integrations
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MMDadoda

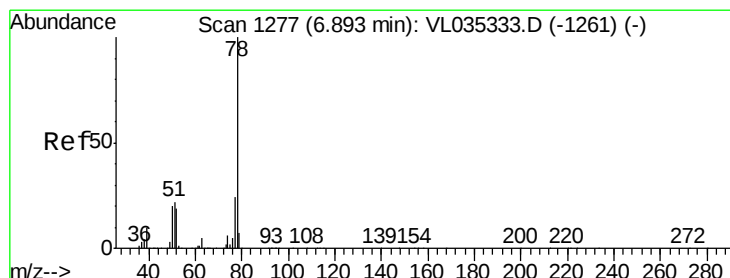
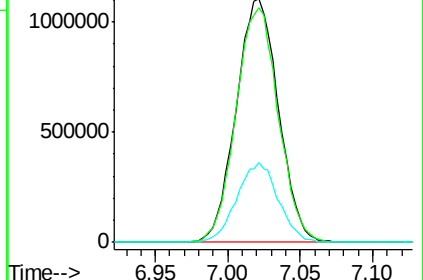
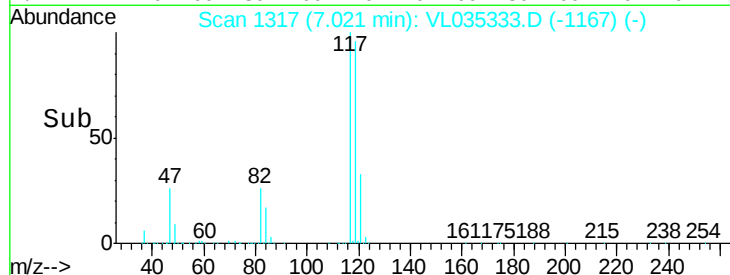
8/6/2020 12:48:49 PM



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: 9.626 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

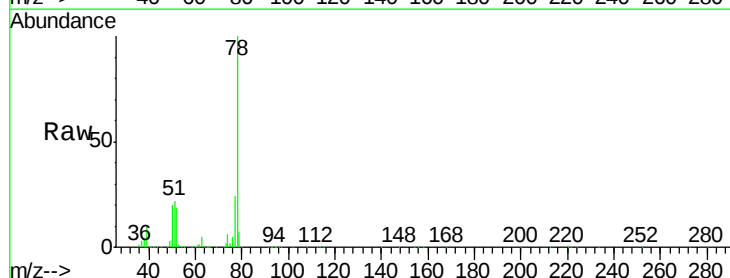
Tgt Ion: 78 Resp: 2551574

Ion Ratio Lower Upper

78 100

77 24.1 19.3 28.9

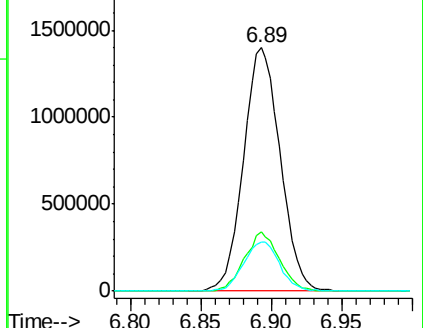
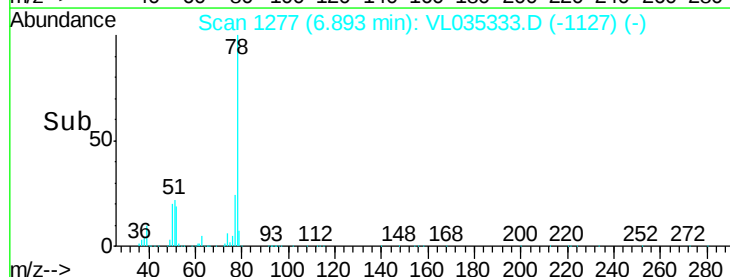
50 20.4 16.6 24.8

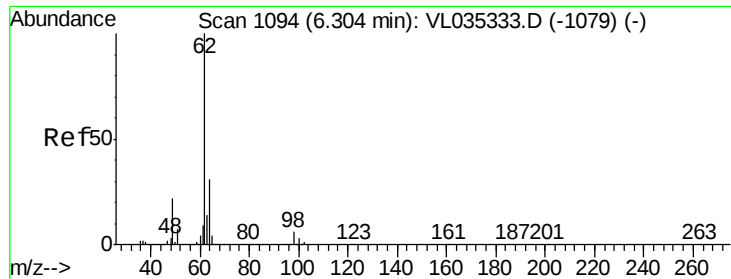


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 8.992 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 1614532

Ion Ratio Lower Upper

62 100

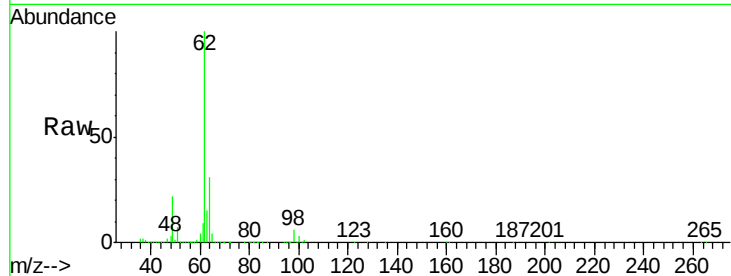
98 5.8 4.6 7.0

Manual Integrations

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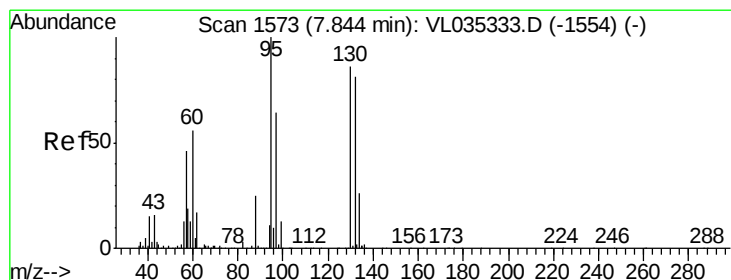
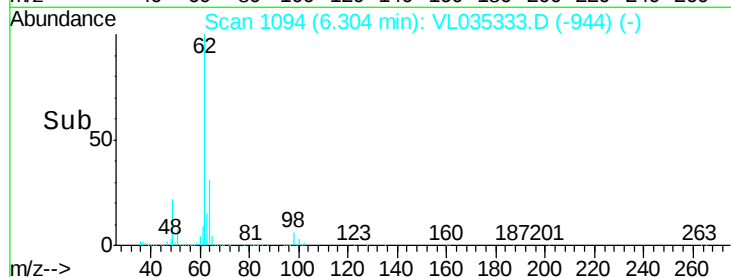
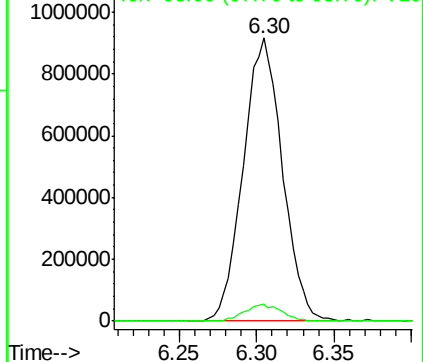
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 11.560 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tgt Ion: 130 Resp: 1125944

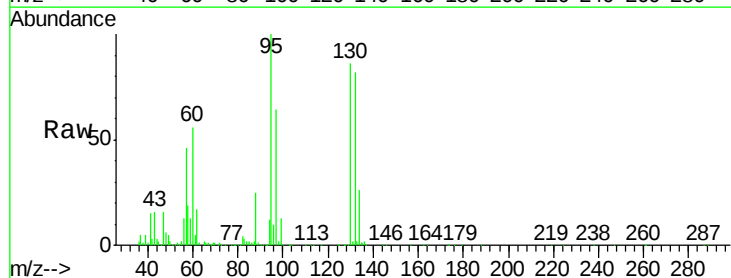
Ion Ratio Lower Upper

130 100

95 116.8 93.4 140.2

132 95.1 74.9 112.3

97 74.3 61.0 91.6

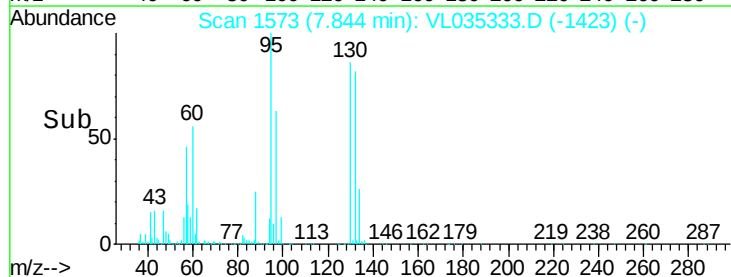
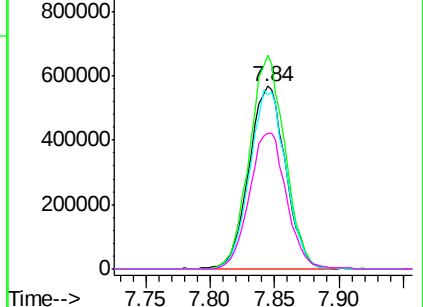


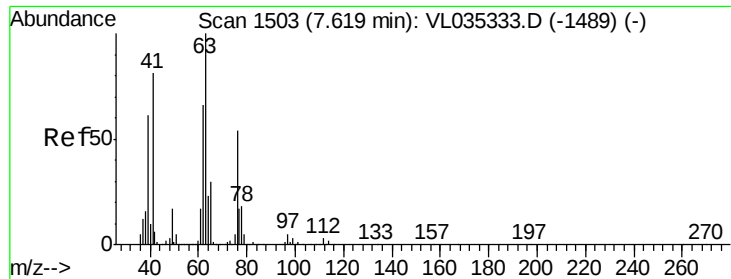
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





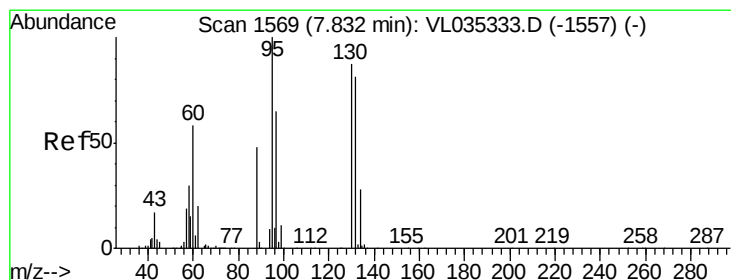
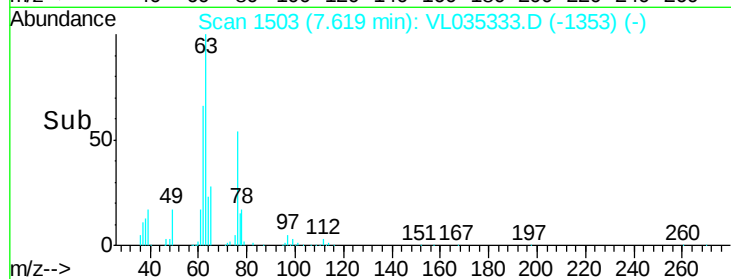
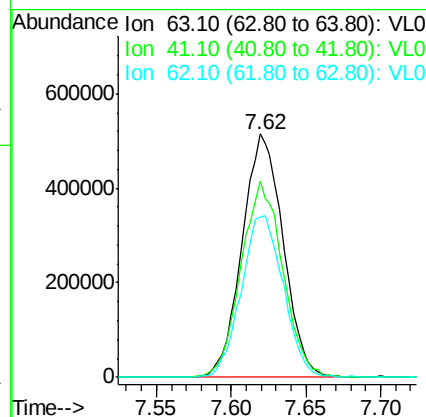
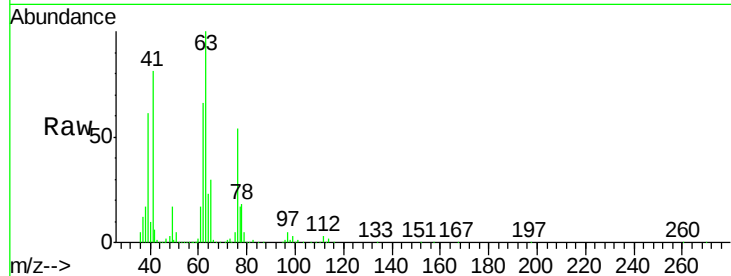
#39
 1,2-Dichloropropane
 Concen: 9.367 ppbv
 RT: 7.62 min Scan# 1503
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	80.5	63.9	95.9
62	65.7	52.6	79.0

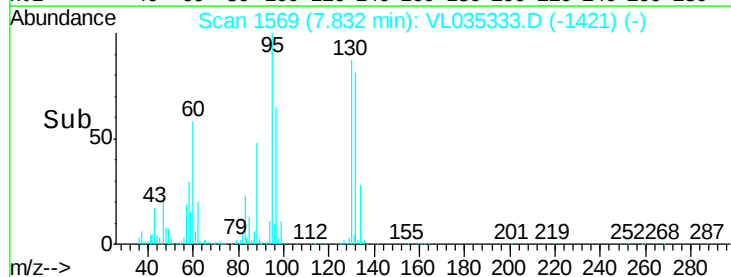
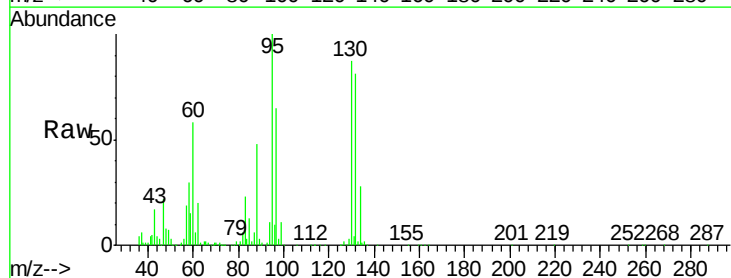
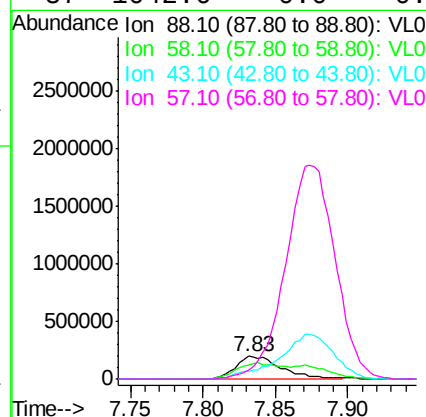
Manual Integrations
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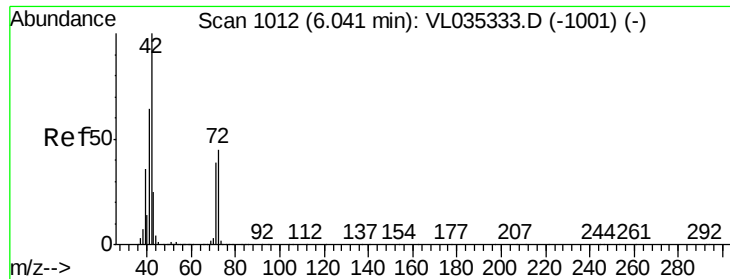
MMDadoda
 8/6/2020 12:48:49 PM



#40
 1,4-Dioxane
 Concen: 9.358 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.03 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	120.9	100.2	150.2
43	238.4	0.0	0.0#
57	1042.6	0.0	0.0#





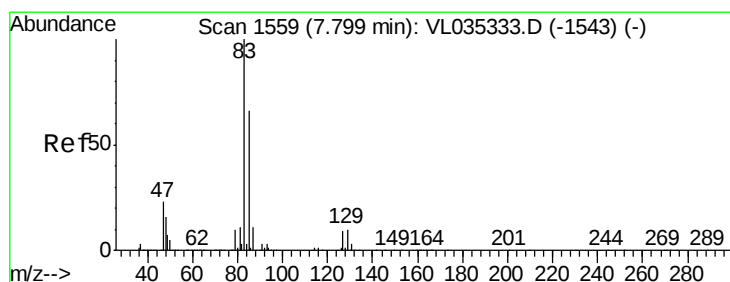
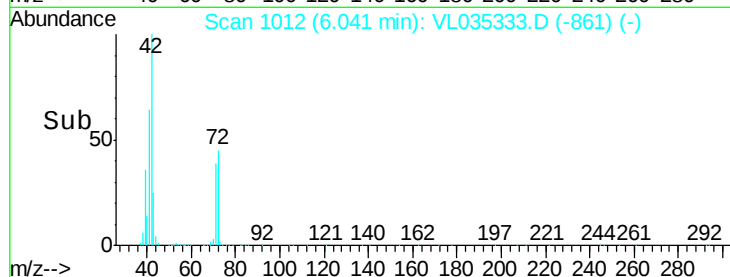
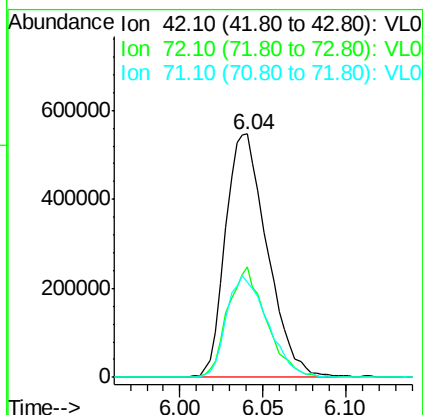
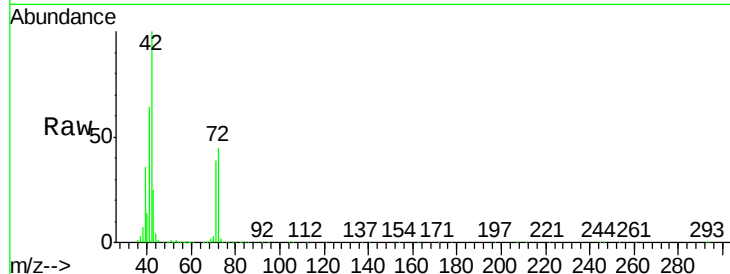
#41
Tetrahydrofuran
Concen: 10.183 ppbv
RT: 6.04 min Scan# 1012
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.0	34.4	51.6
71	41.4	32.8	49.2

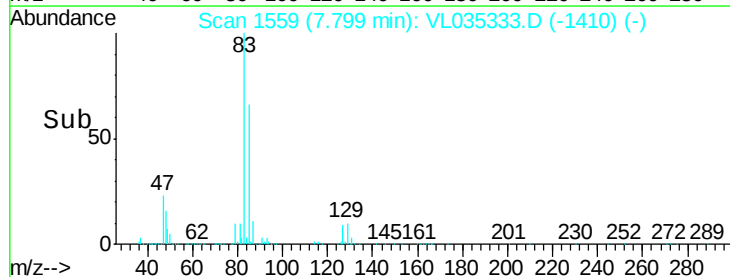
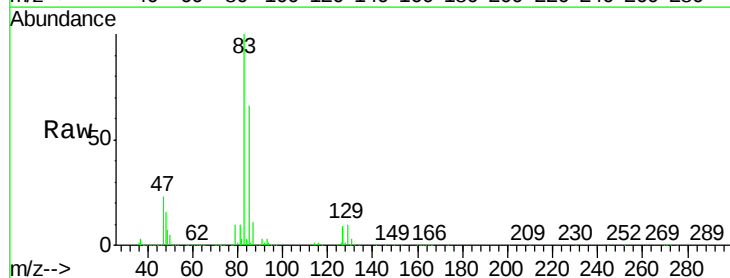
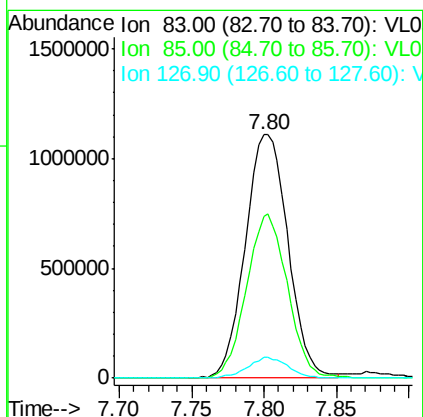
Manual Integrations
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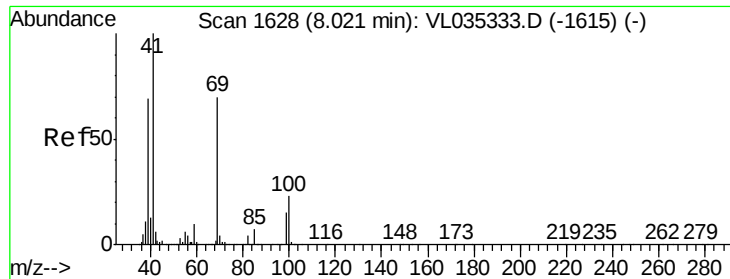
MMDadoda
8/6/2020 12:48:49 PM



#42
Bromodichloromethane
Concen: 9.280 ppbv
RT: 7.80 min Scan# 1559
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.3	78.5
127	8.5	7.0	10.4





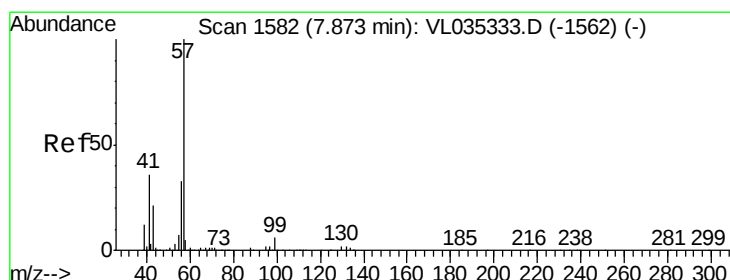
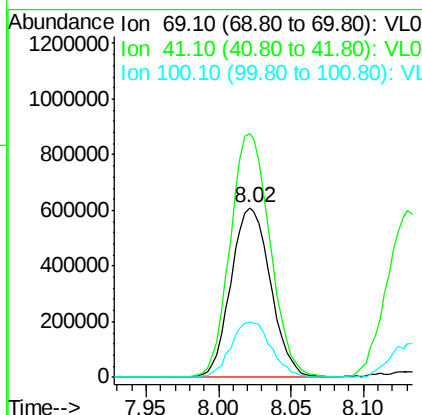
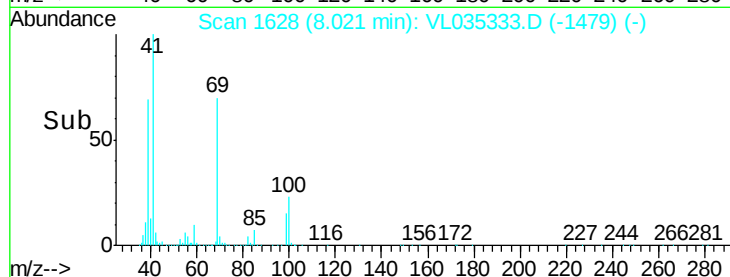
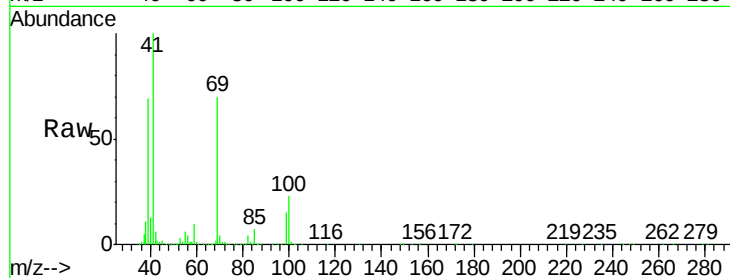
#43
Methvl Methacrylate
Concen: 10.420 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 69 Resp: 1153980
Ion Ratio Lower Upper
69 100
41 144.7 115.2 172.8
100 33.4 26.5 39.7

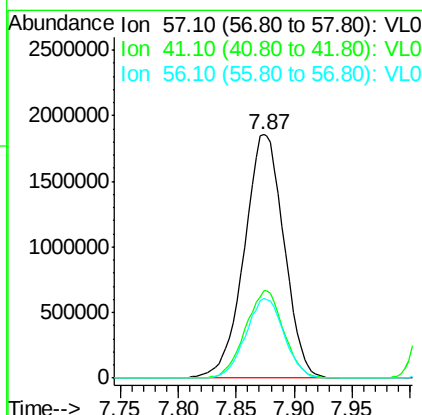
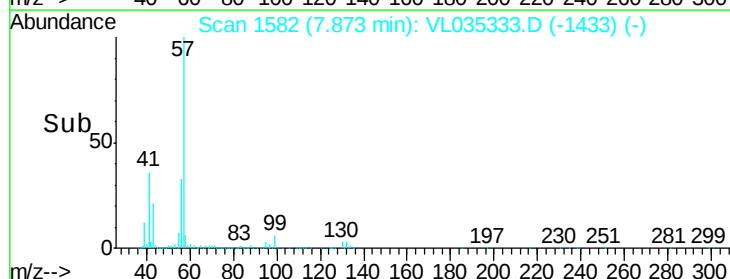
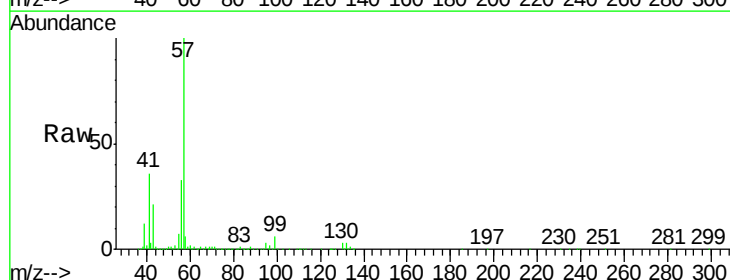
Manual Integrations
APPROVED

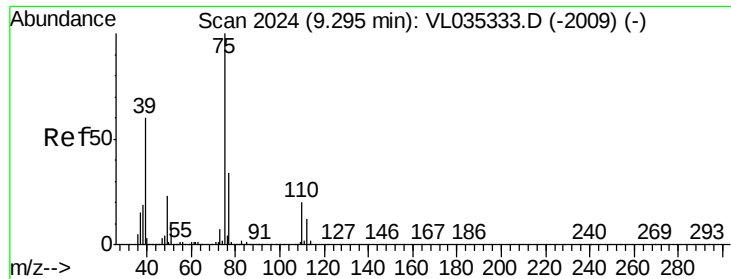
MMDadoda
8/6/2020 12:48:49 PM



#44
2,2,4-Trimethylpentane
Concen: 9.714 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion: 57 Resp: 4410883
Ion Ratio Lower Upper
57 100
41 34.9 27.8 41.8
56 31.7 25.0 37.4





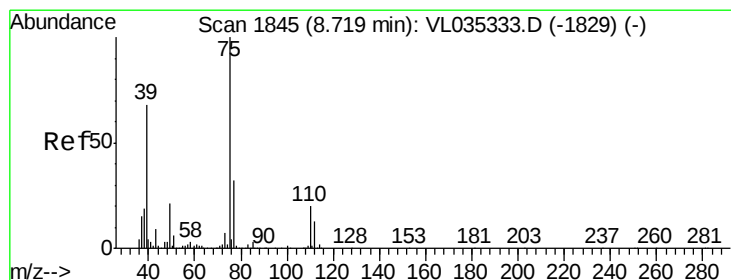
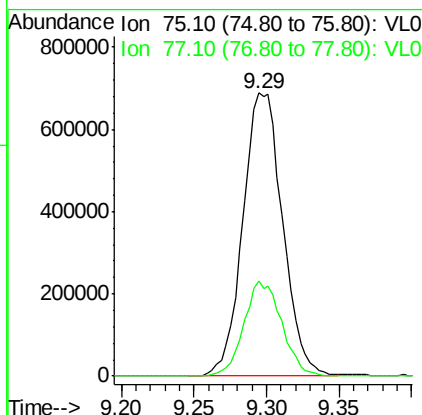
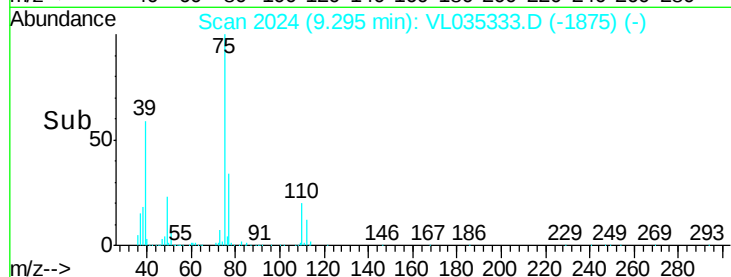
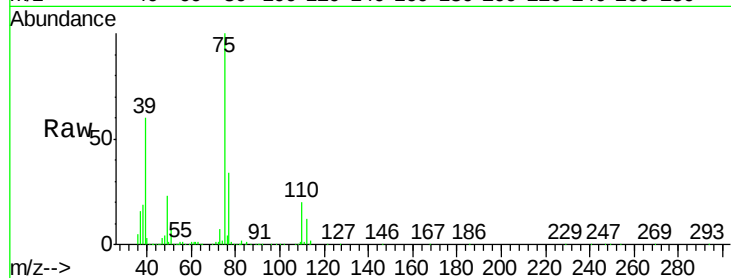
#45
t-1,3-Dichloropropene
Concen: 11.115 ppbv
RT: 9.29 min Scan# 2024
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 75 Resp: 1313896
Ion Ratio Lower Upper
75 100
77 33.8 26.0 39.0

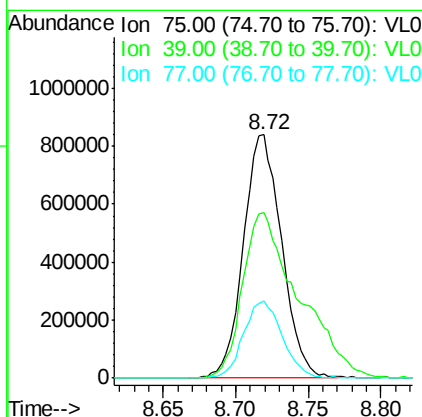
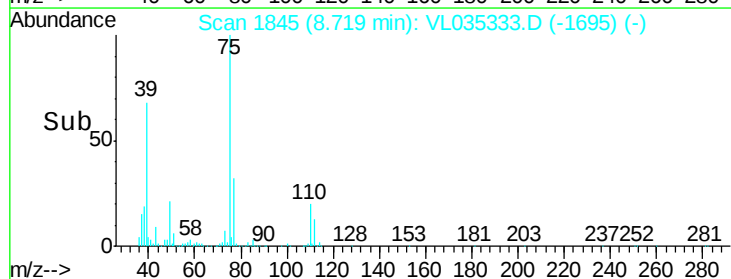
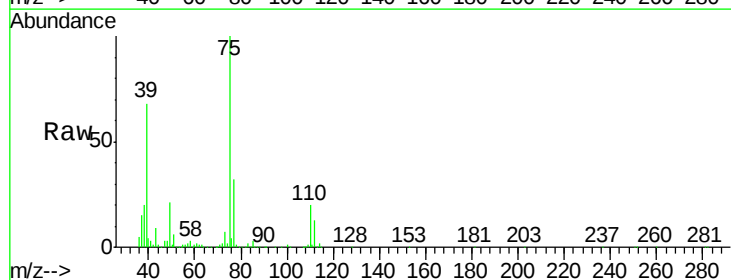
Manual Integrations
APPROVED

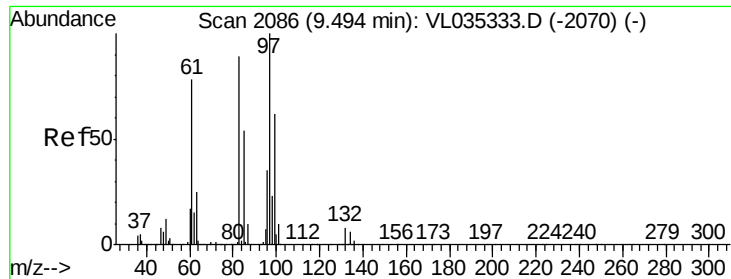
MMDadoda
8/6/2020 12:48:49 PM



#46
cis-1,3-Dichloropropene
Concen: 10.895 ppbv
RT: 8.72 min Scan# 1845
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion: 75 Resp: 1542001
Ion Ratio Lower Upper
75 100
39 67.7 53.8 80.8
77 31.8 25.9 38.9





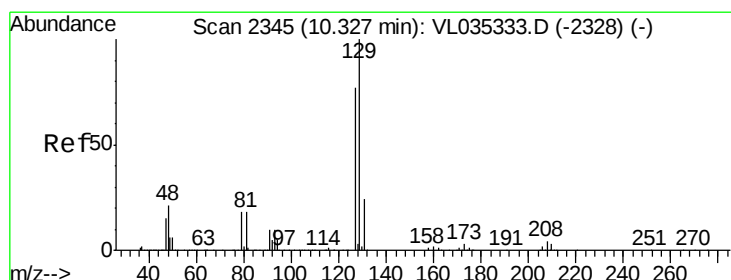
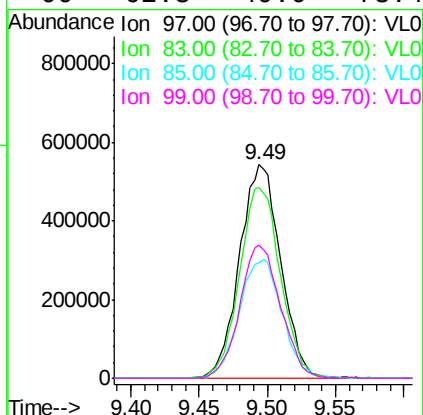
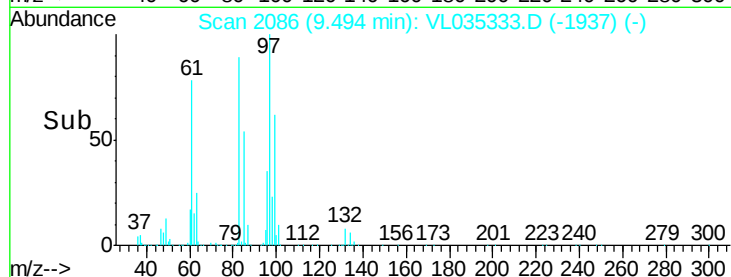
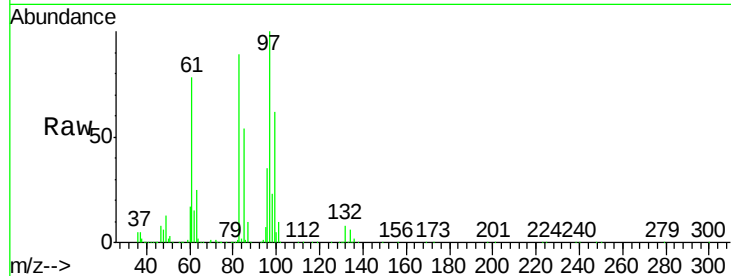
#47
 1,1,2-Trichloroethane
 Concen: 9.376 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	89.1	70.2	105.4	
85	54.1	45.5	68.3	
99	62.3	49.0	73.4	

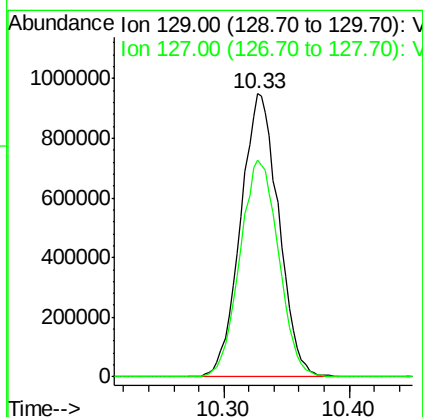
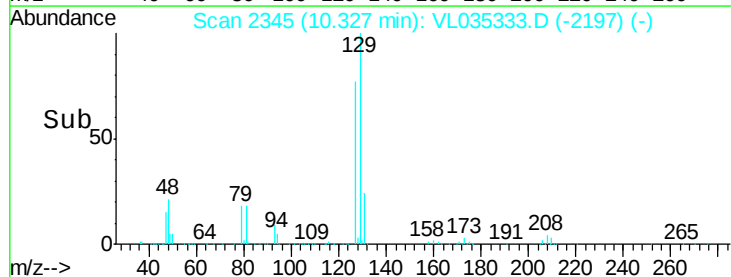
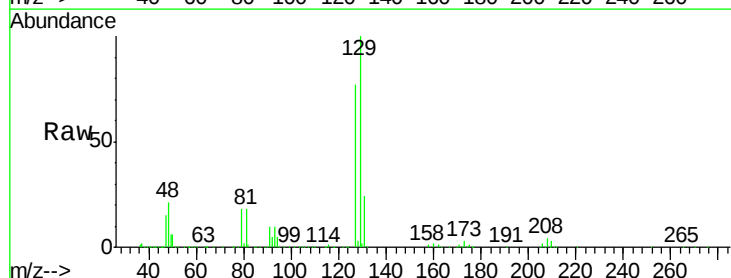
Manual Integrations
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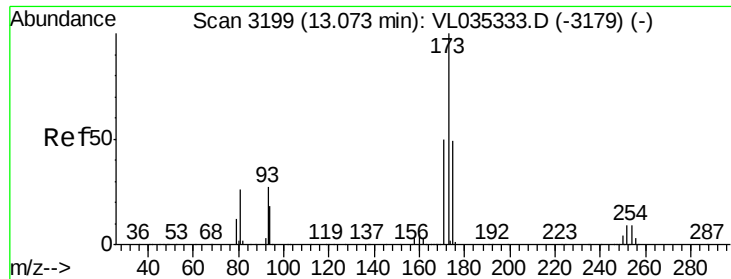
MMDadoda
 8/6/2020 12:48:49 PM



#48
 Dibromochloromethane
 Concen: 10.125 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. -0.03 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.1	39.4	118.1	





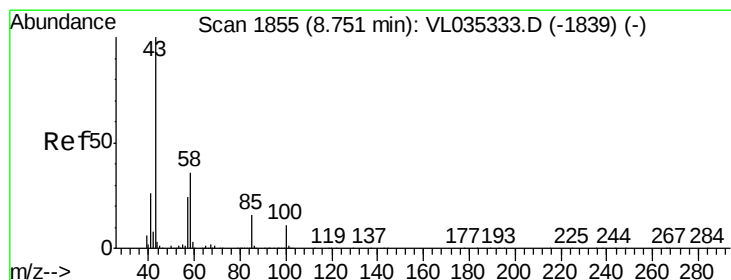
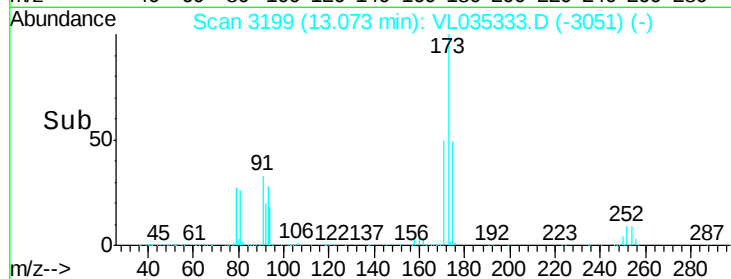
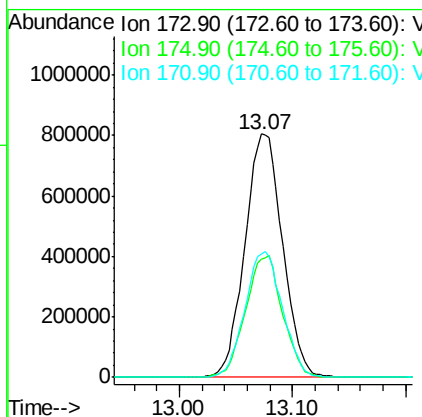
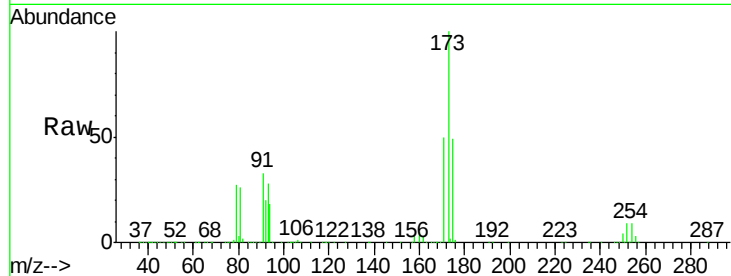
#49
Bromoform
Concen: 10.842 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. -0.03 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:173 Resp: 1863037
Ion Ratio Lower Upper
173 100
175 49.1 39.4 59.2
171 51.5 41.2 61.8

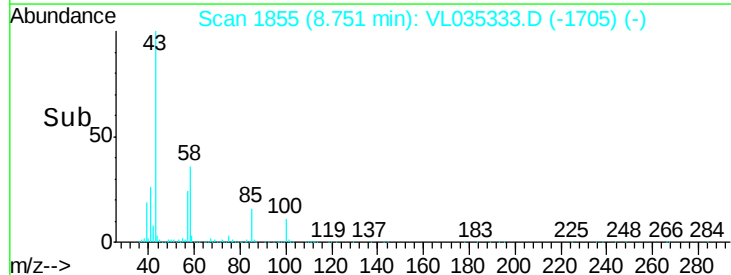
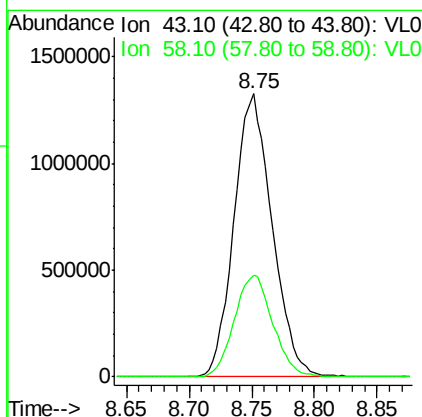
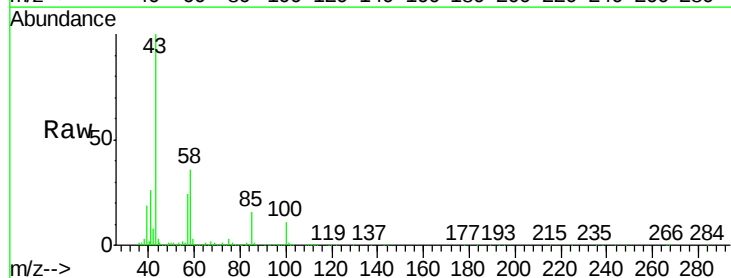
Manual Integrations
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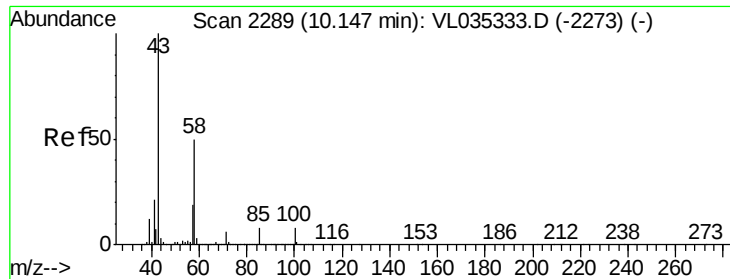
MMDadoda
8/6/2020 12:48:49 PM



#50
4-Methyl-2-Pentanone
Concen: 10.413 ppbv
RT: 8.75 min Scan# 1855
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion: 43 Resp: 2799429
Ion Ratio Lower Upper
43 100
58 36.5 29.0 43.6





#51

2-Hexanone

Concen: 11.006 ppbv

RT: 10.15 min Scan# 2289

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2289233

Ion Ratio Lower Upper

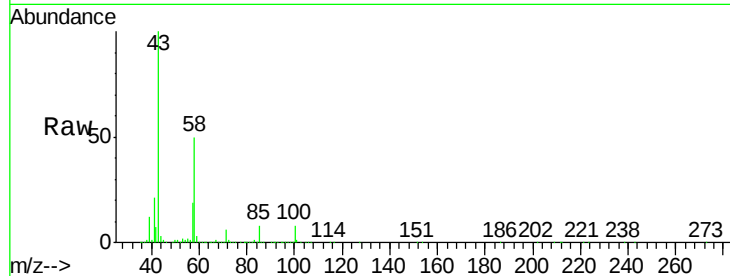
43 100

58 49.3 38.5 57.7

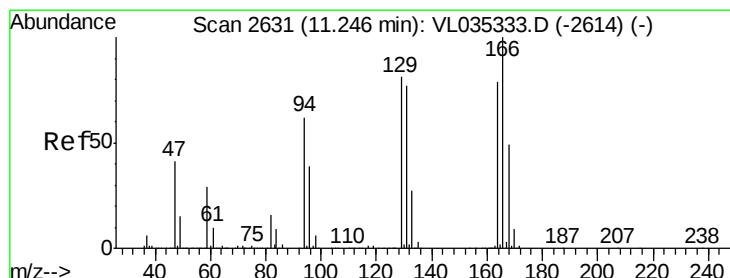
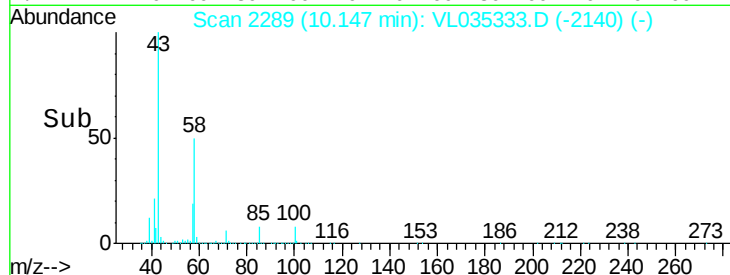
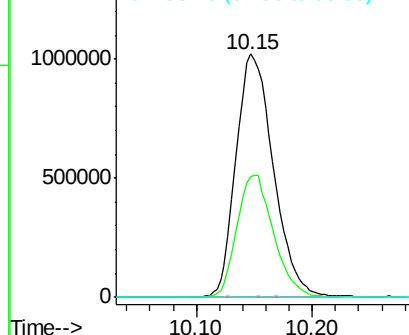
98 0.3 0.4 0.6#

Manual Integrations
APPROVED

MMDadoda
8/6/2020 12:48:49 PM



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



#52

Tetrachloroethene

Concen: 10.549 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.03 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tgt Ion: 164 Resp: 985061

Ion Ratio Lower Upper

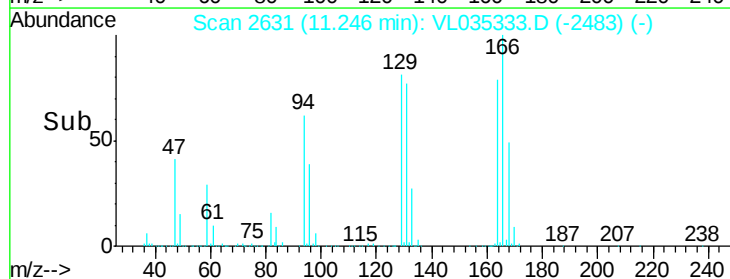
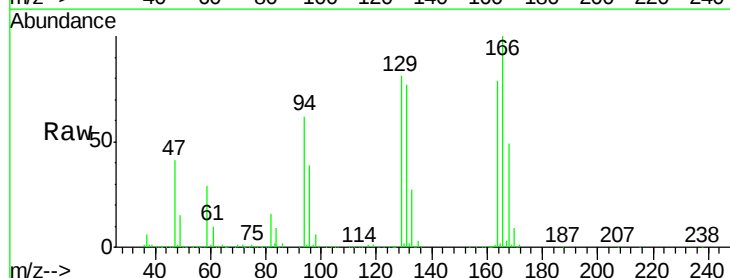
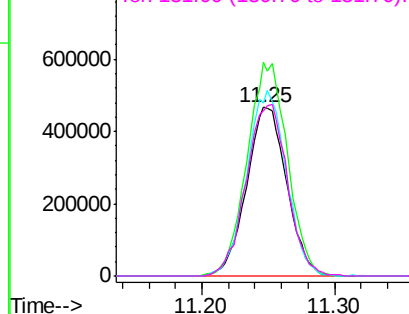
164 100

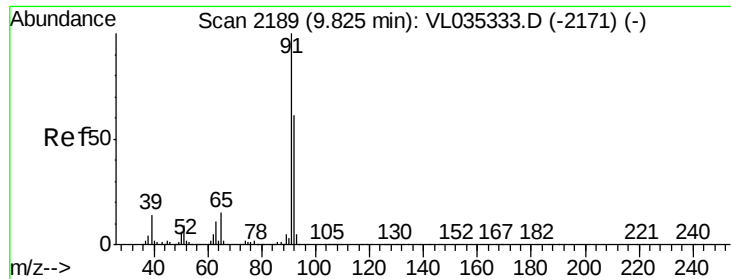
166 126.7 96.1 144.1

129 102.6 84.9 127.3

131 98.0 82.4 123.6

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





#53

Toluene

Concen: 11.049 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 3079613

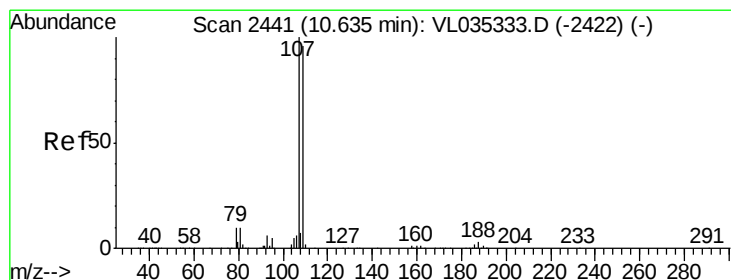
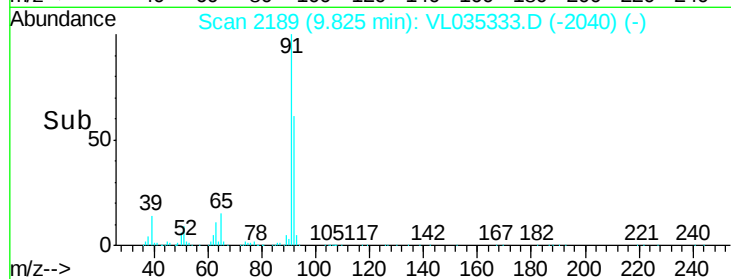
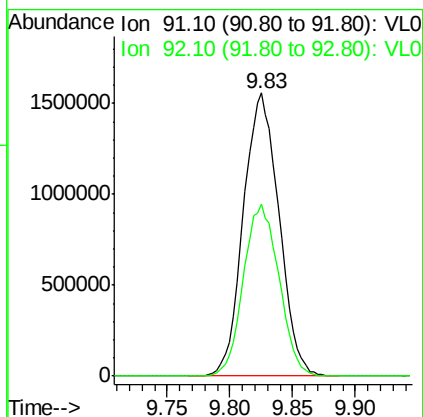
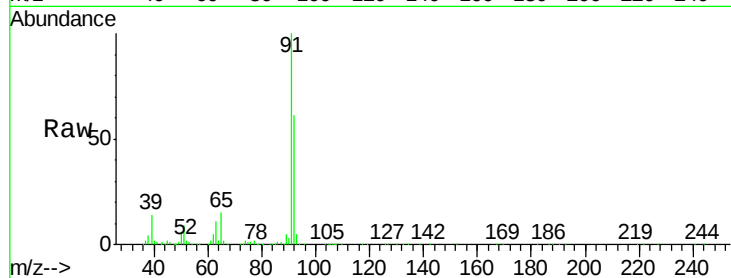
Ion Ratio Lower Upper

91 100

92 60.6 47.9 71.9

Manual Integrations
APPROVED

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#54

1,2-Dibromoethane

Concen: 9.610 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.02 min

Lab File: VL035333.D

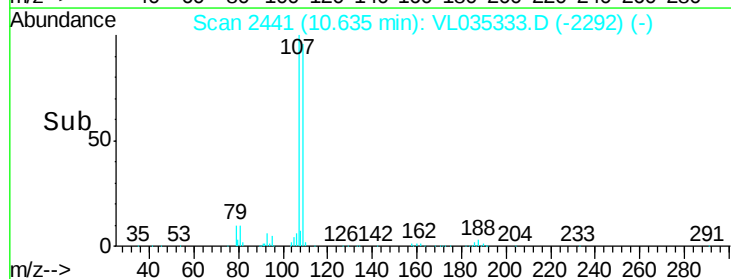
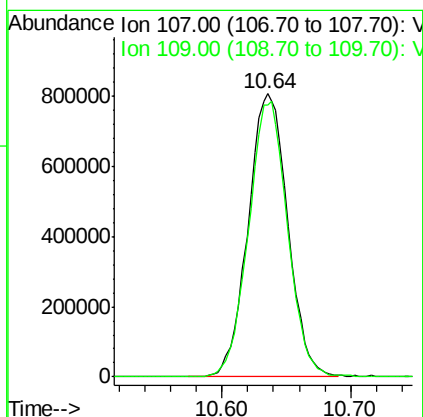
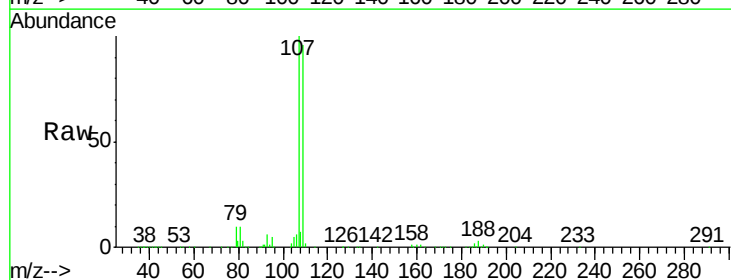
Acq: 5 Aug 2020 8:40

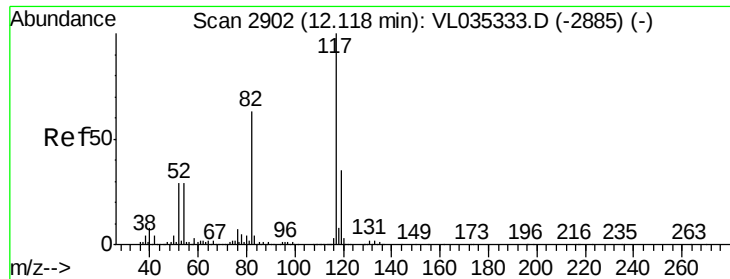
Tgt Ion: 107 Resp: 1724682

Ion Ratio Lower Upper

107 100

109 96.0 76.6 115.0





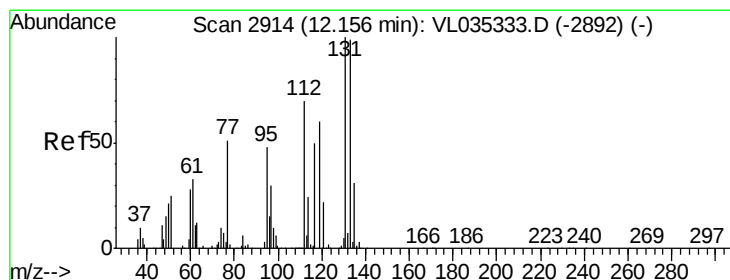
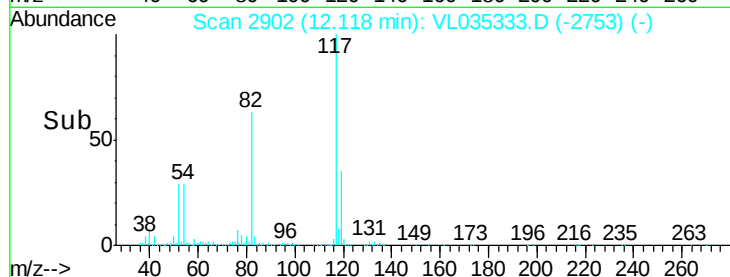
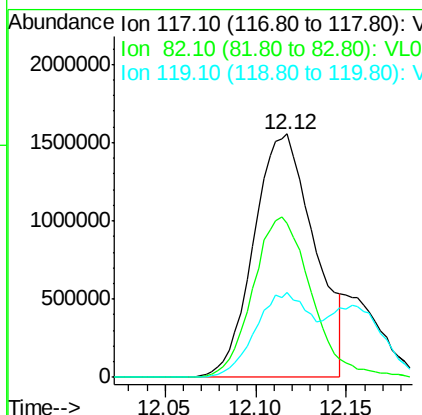
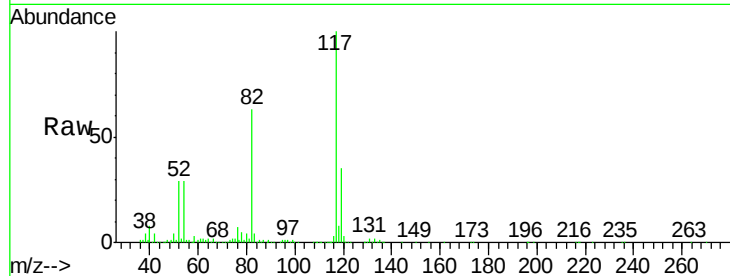
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.12 min Scan# 2902
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 3623195
Ion Ratio Lower Upper
117 100
82 63.7 51.4 77.2
119 30.9 25.0 37.4

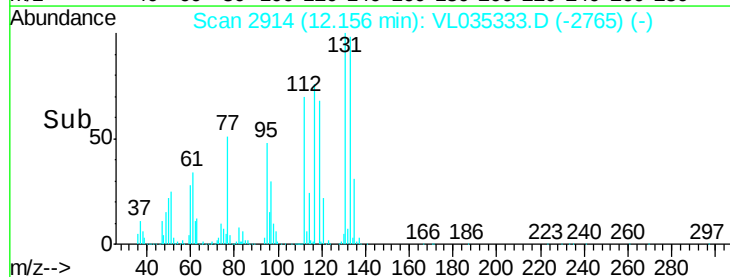
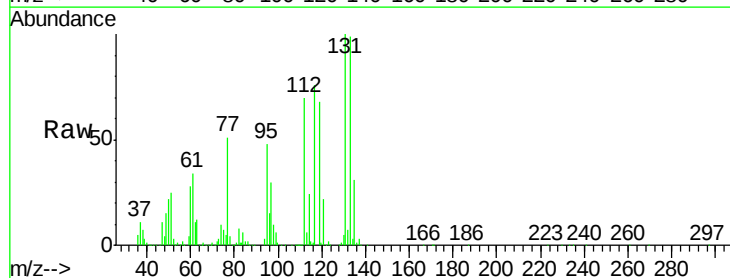
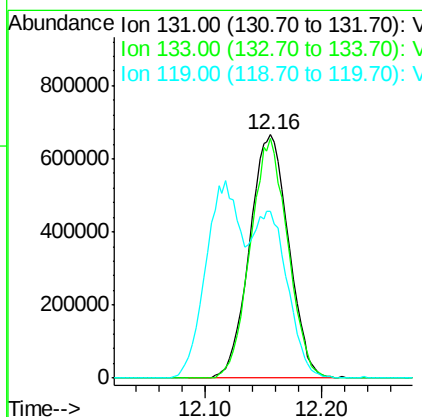
Manual Integrations
APPROVED

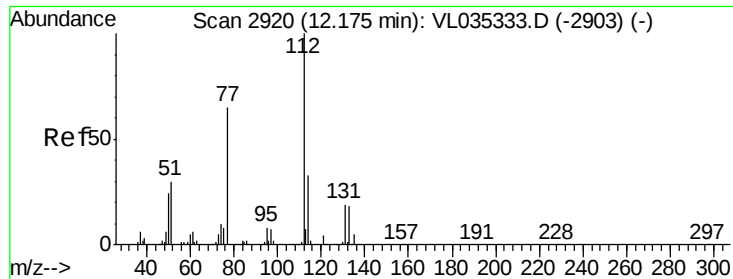
MMDadoda
8/6/2020 12:48:49 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.155 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion:131 Resp: 1556772
Ion Ratio Lower Upper
131 100
133 94.3 77.2 115.8
119 54.6 48.6 72.8





#57

Chlorobenzene

Concen: 8.964 ppbv

RT: 12.18 min Scan# 2920

Delta R.T. -0.03 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 112 Resp: 2485729

Ion Ratio Lower Upper

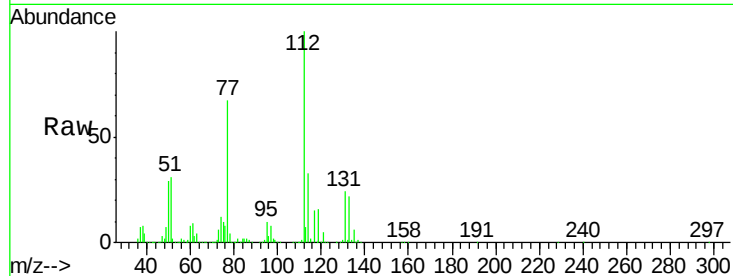
112 100

77 66.6 53.8 80.8

114 33.1 28.8 35.2

Manual Integrations
APPROVED

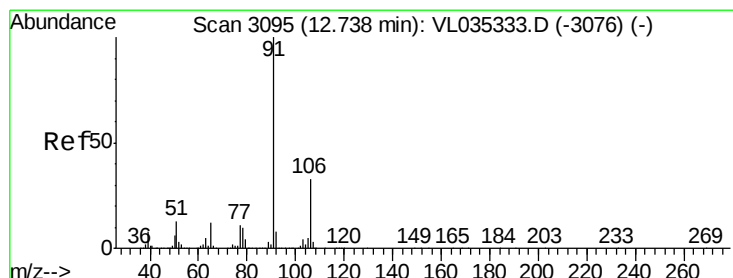
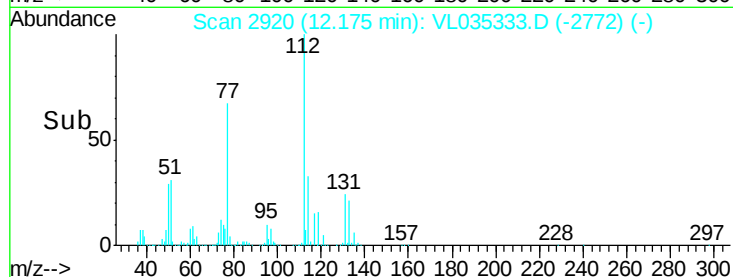
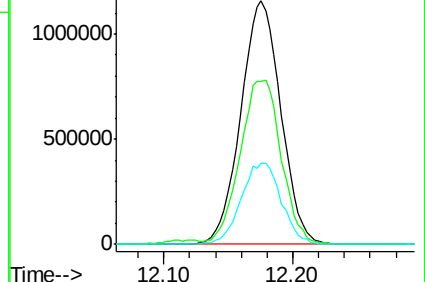
MMDadoda
8/6/2020 12:48:49 PM



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: 10.500 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.03 min

Lab File: VL035333.D

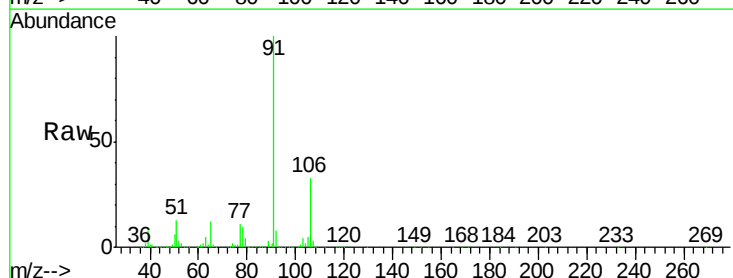
Acq: 5 Aug 2020 8:40

Tgt Ion: 91 Resp: 4168248

Ion Ratio Lower Upper

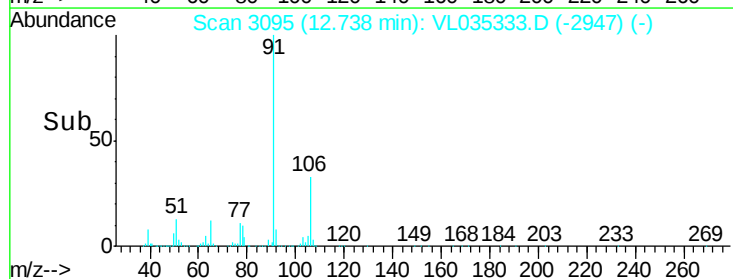
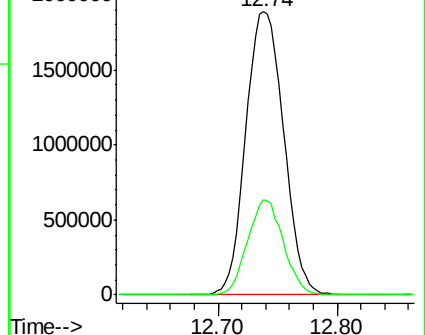
91 100

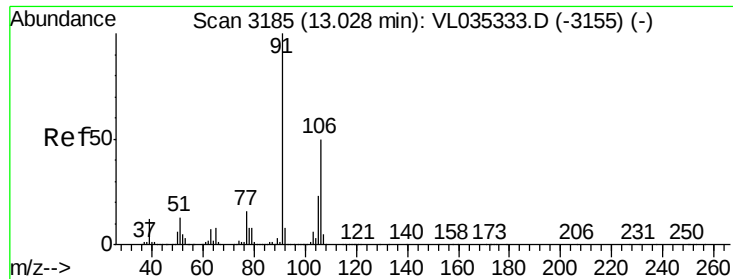
106 33.5 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 19.420 ppbv m

RT: 13.03 min Scan# 3185

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampled :

VSTDICCC010

Tot Ion: 91 Resp: 7113281

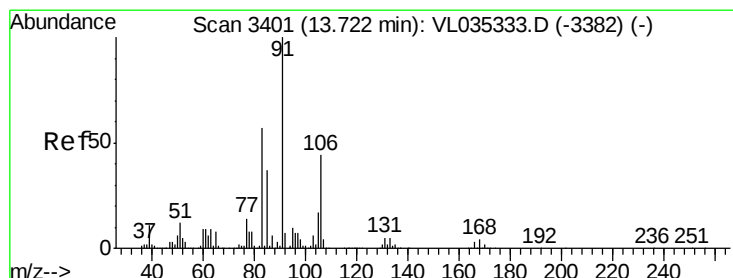
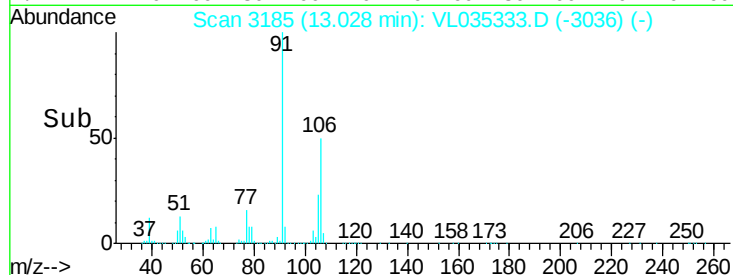
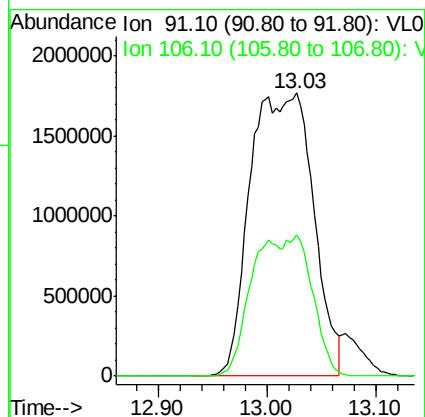
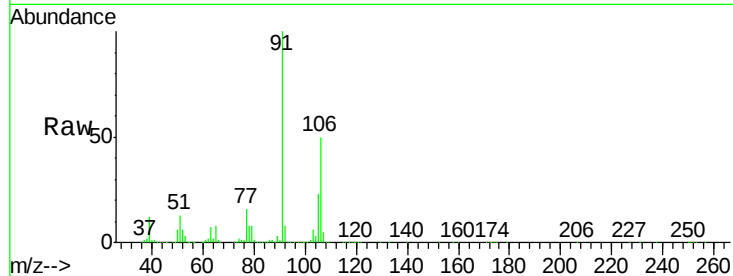
Ion Ratio Lower Upper

91 100

106 47.3 36.0 54.0

Manual Integrations
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#60

o-Xylene

Concen: 9.905 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. -0.03 min

Lab File: VL035333.D

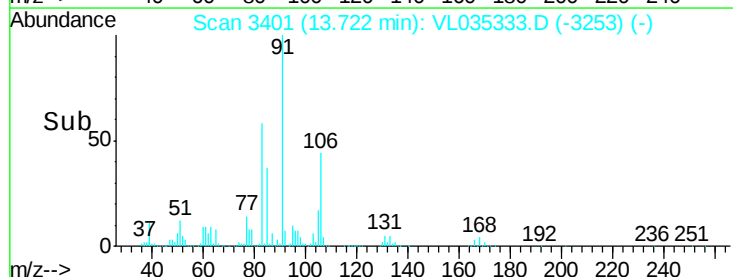
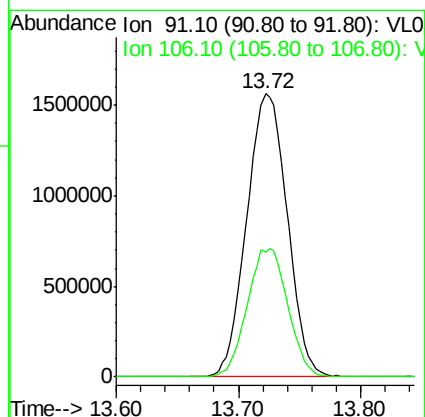
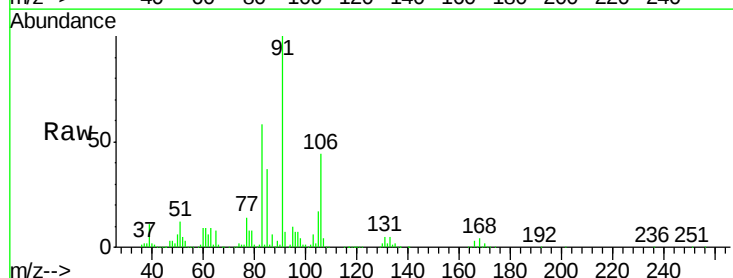
Acq: 5 Aug 2020 8:40

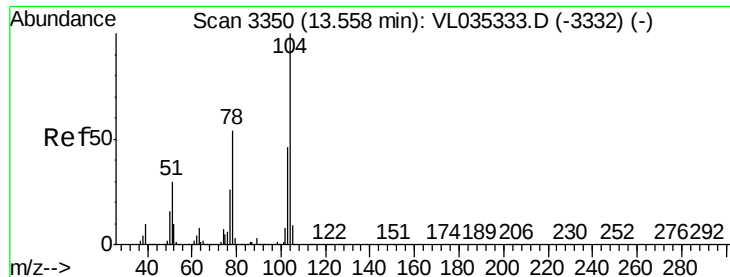
Tgt Ion: 91 Resp: 3586666

Ion Ratio Lower Upper

91 100

106 45.3 22.1 66.1





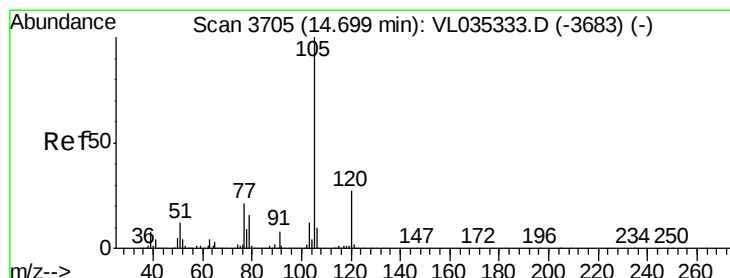
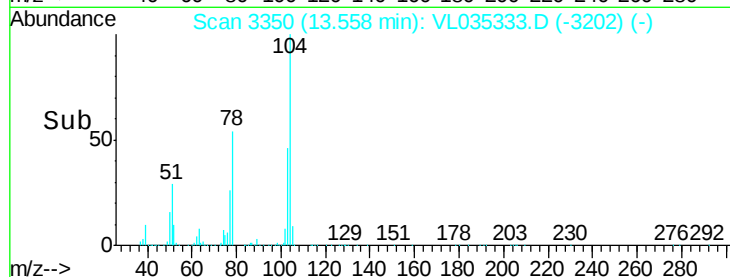
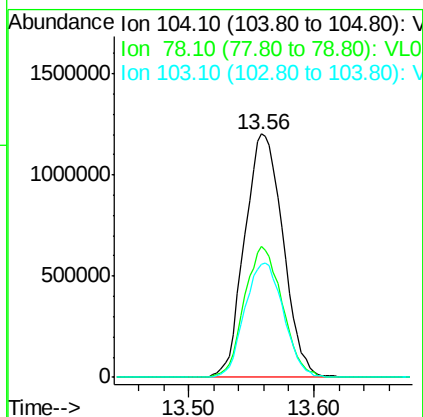
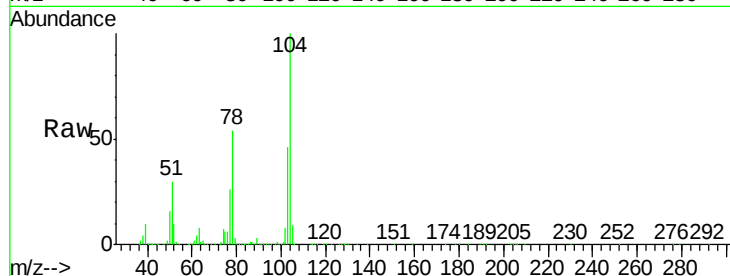
#61
Stvrene
Concen: 11.501 ppbv
RT: 13.56 min Scan# 3350
Delta R.T. -0.03 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.2	43.3	64.9
103	47.6	38.1	57.1

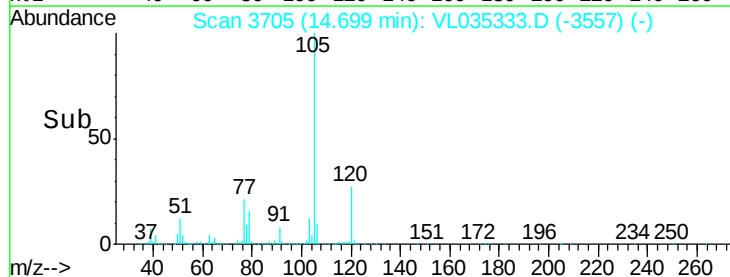
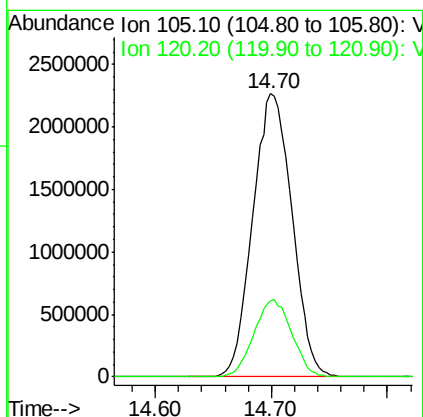
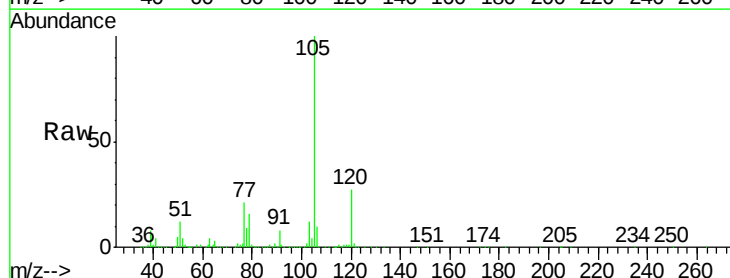
Manual Integrations
APPROVED

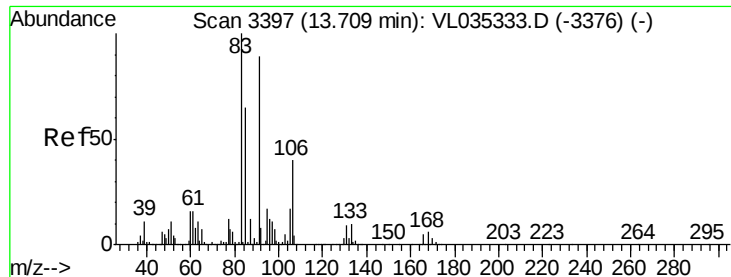
MMDadoda
8/6/2020 12:48:49 PM



#62
Isopropylbenzene
Concen: 9.753 ppbv
RT: 14.70 min Scan# 3705
Delta R.T. -0.03 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	20.7	31.1





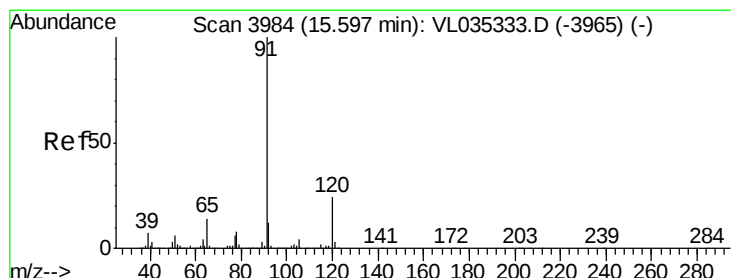
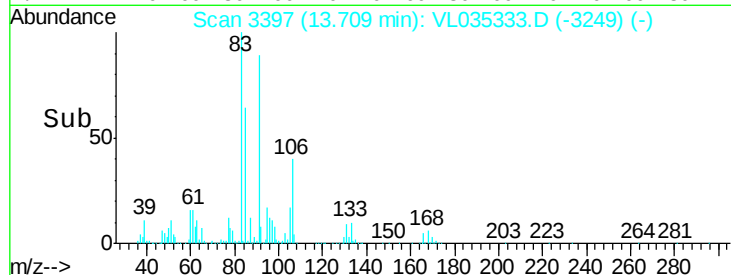
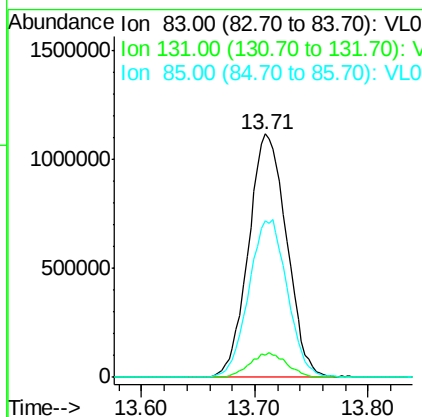
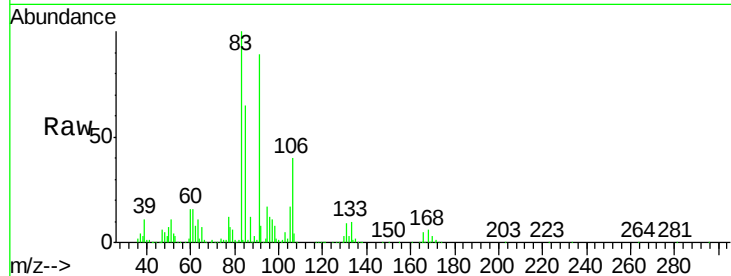
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.220 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. -0.03 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	65.3	32.5	97.4

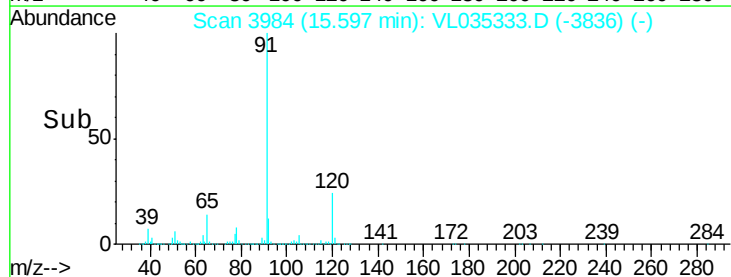
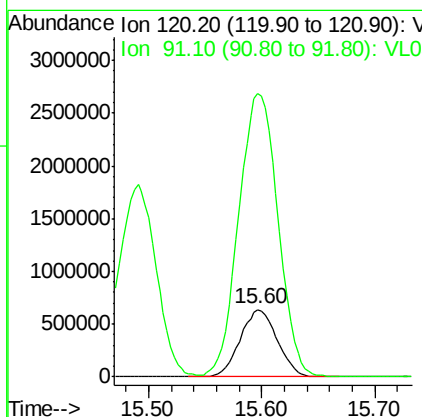
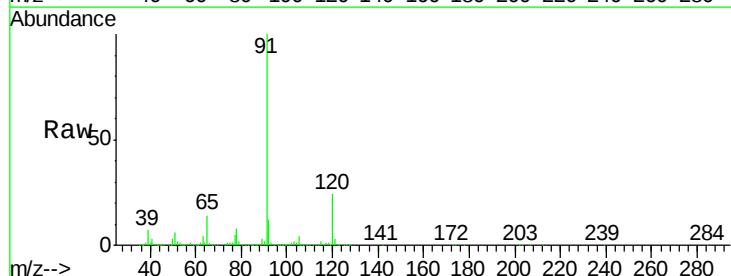
Manual Integrations
 APPROVED

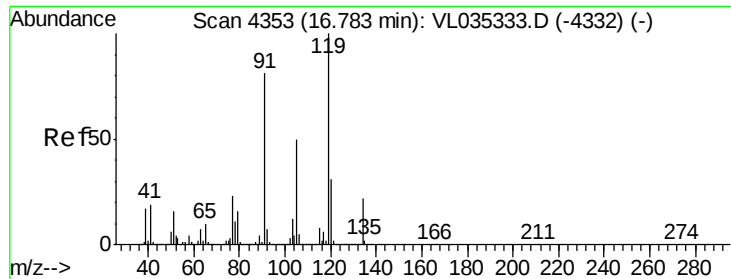
MMDadoda
 8/6/2020 12:48:49 PM



#64
 n-propylbenzene
 Concen: 10.165 ppbv
 RT: 15.60 min Scan# 3984
 Delta R.T. -0.03 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
120	100		
91	446.5	369.4	554.2





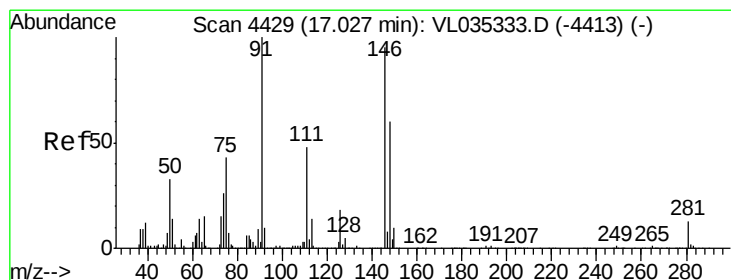
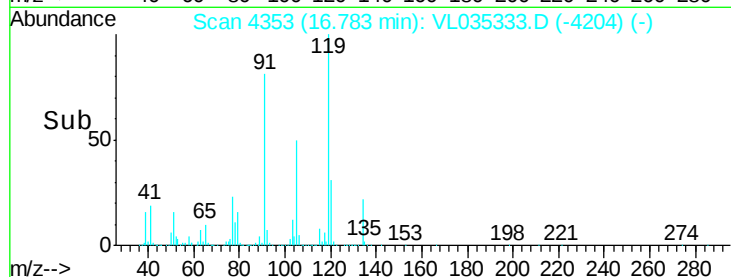
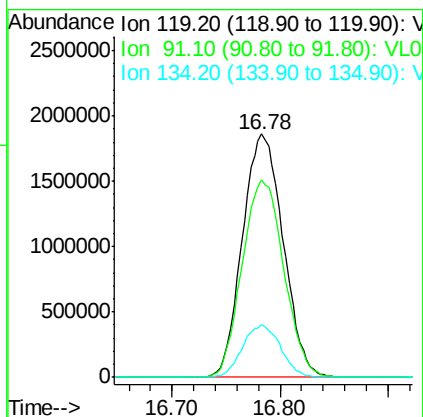
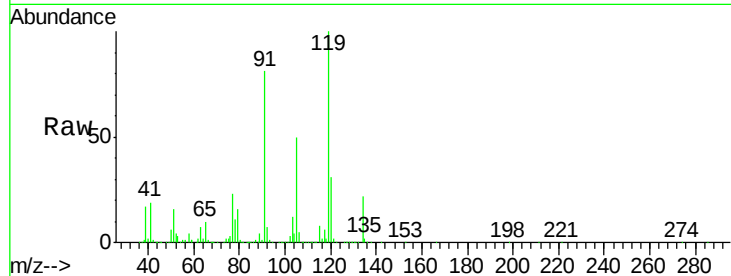
#65
tert-Butylbenzene
Concen: 9.988 ppbv
RT: 16.78 min Scan# 4353
Delta R.T. -0.02 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:119 Resp: 4885556
Ion Ratio Lower Upper
119 100
91 82.9 66.7 100.1
134 20.2 15.8 23.8

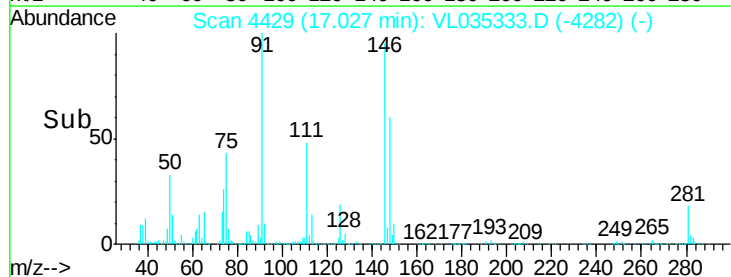
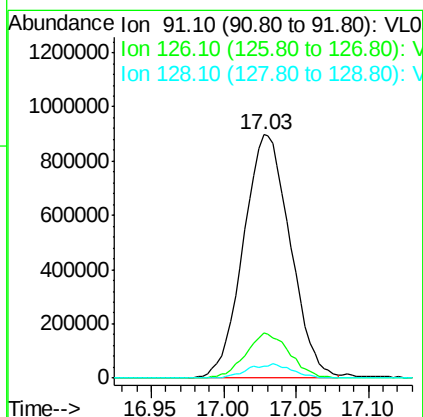
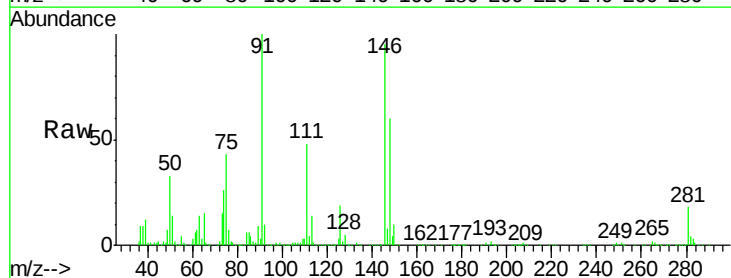
Manual Integrations
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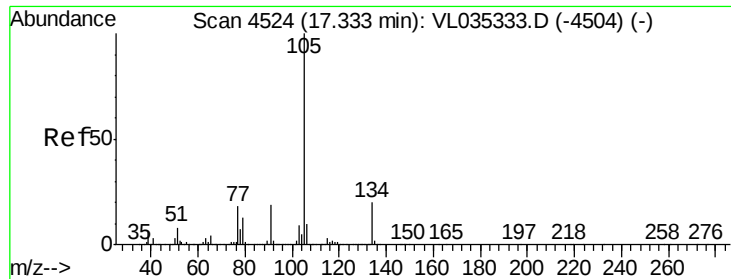
MMDadoda
8/6/2020 12:48:49 PM



#66
Benzyl Chloride
Concen: 10.597 ppbv
RT: 17.03 min Scan# 4429
Delta R.T. -0.03 min
Lab File: VL035333.D
Acq: 5 Aug 2020 8:40

Tgt Ion: 91 Resp: 2004141
Ion Ratio Lower Upper
91 100
126 17.6 13.9 20.9
128 5.6 4.6 6.8





#67

sec-Butylbenzene

Concen: 9.772 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 6757952

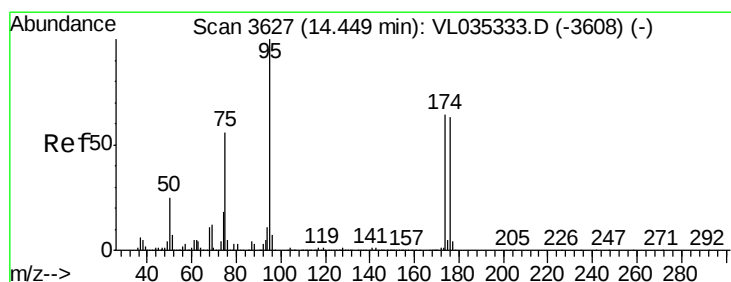
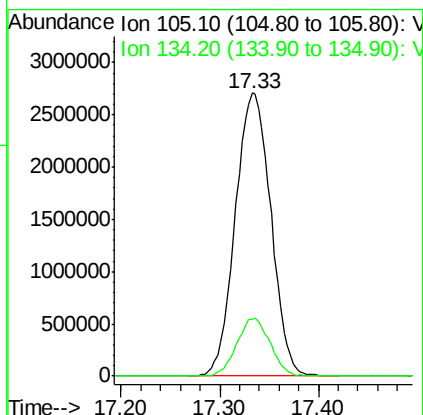
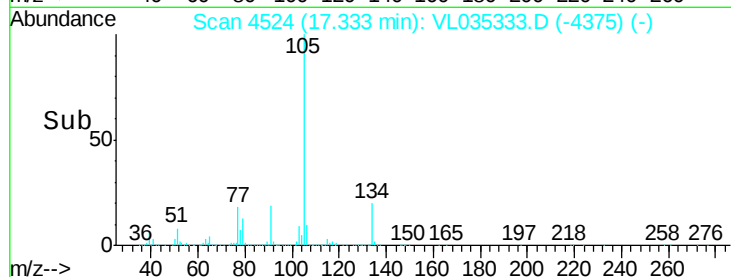
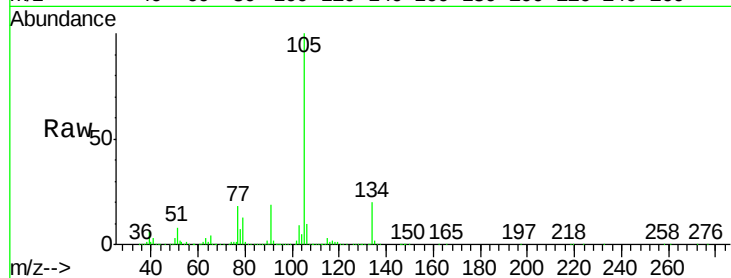
Ion Ratio Lower Upper

105 100

134 19.3 15.0 22.4

Manual Integrations
APPROVED

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8/6/2020 12:48:49 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.735 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.03 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

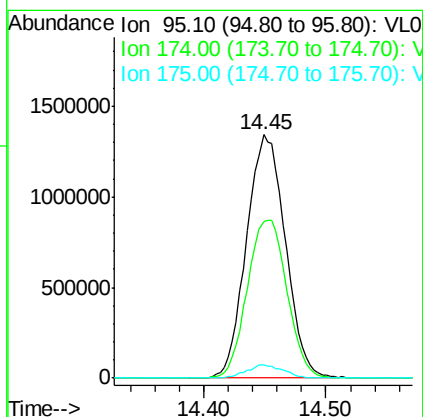
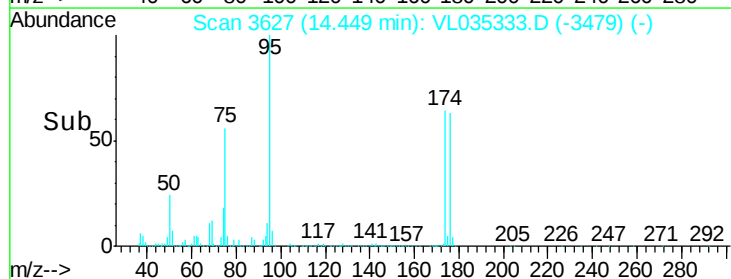
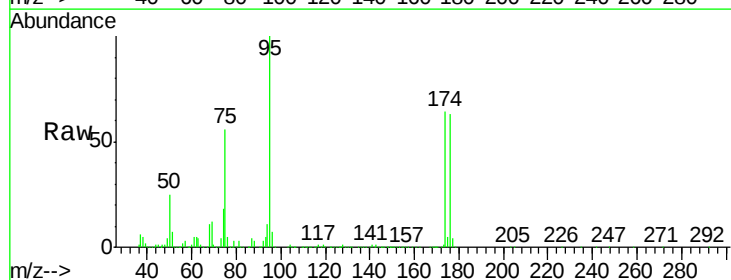
Tgt Ion: 95 Resp: 2954640

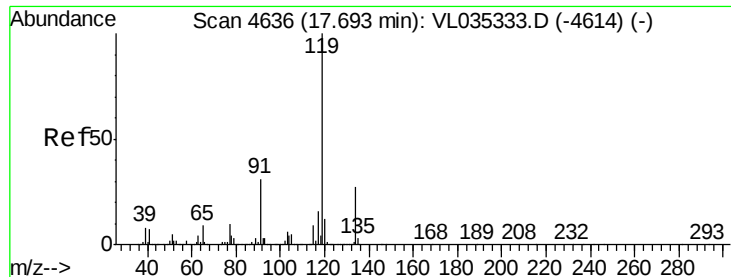
Ion Ratio Lower Upper

95 100

174 66.9 53.4 80.2

175 5.2 3.8 5.8





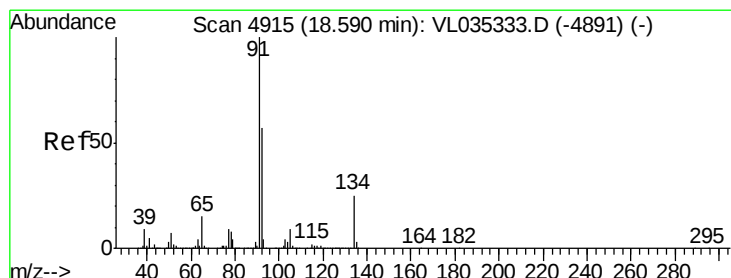
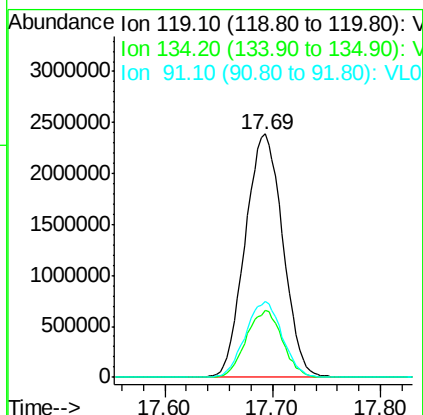
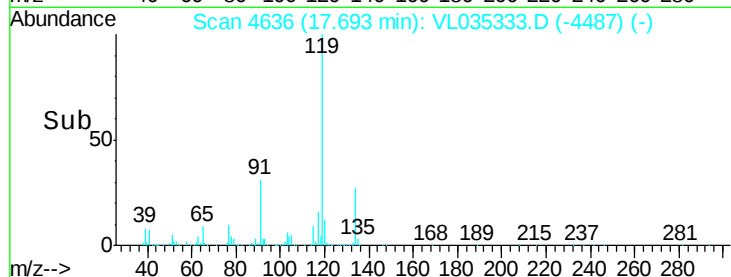
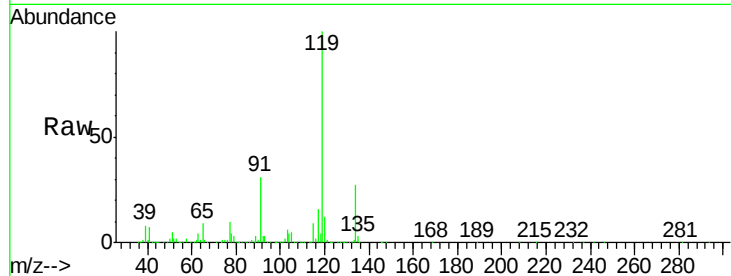
#69
 p-Isopropyltoluene
 Concen: 10.107 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.4	20.5	30.7
91	30.6	24.8	37.2

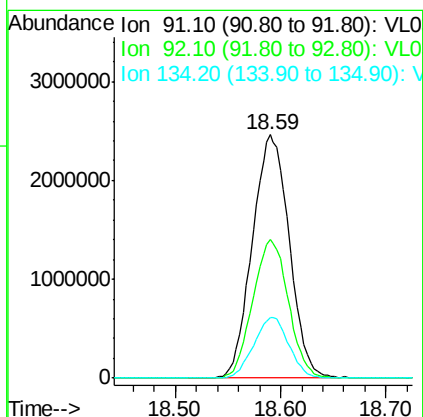
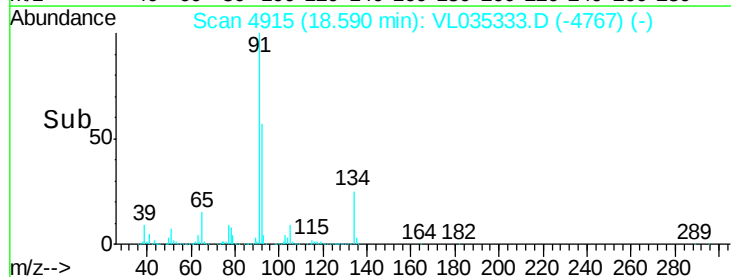
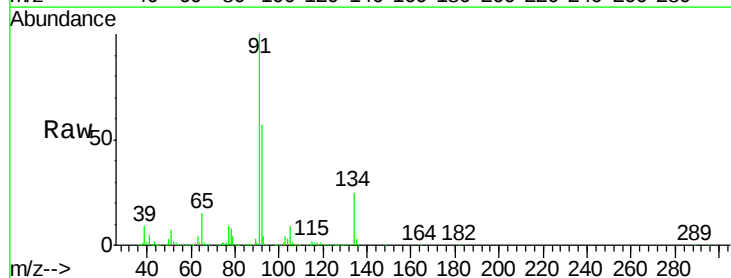
Manual Integrations
 APPROVED

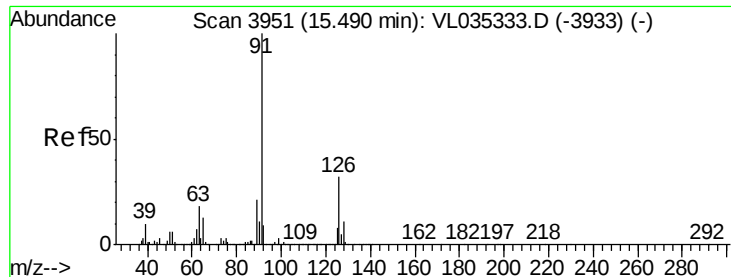
MMDadoda
 8/6/2020 12:48:49 PM



#70
 n-Butylbenzene
 Concen: 9.720 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. -0.03 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	44.0	66.0
134	23.8	18.4	27.6





#71

2-Chlorotoluene

Concen: 10.137 ppbv

RT: 15.49 min Scan# 3951

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4132729

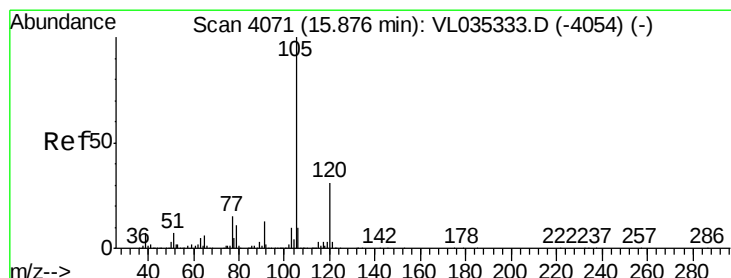
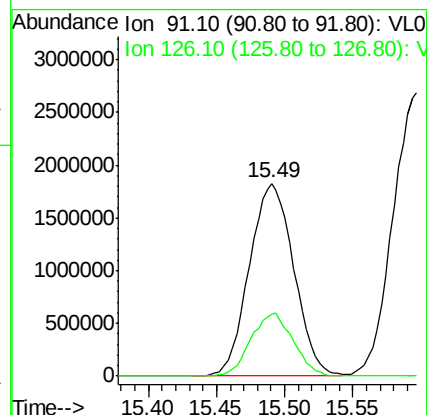
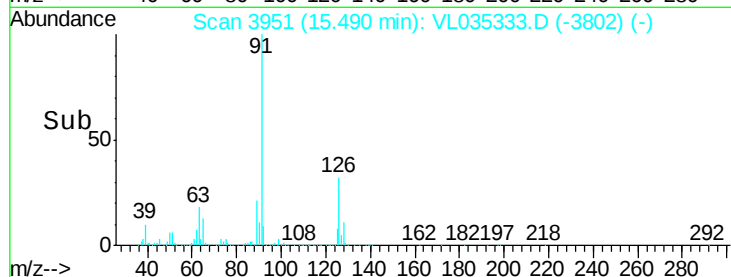
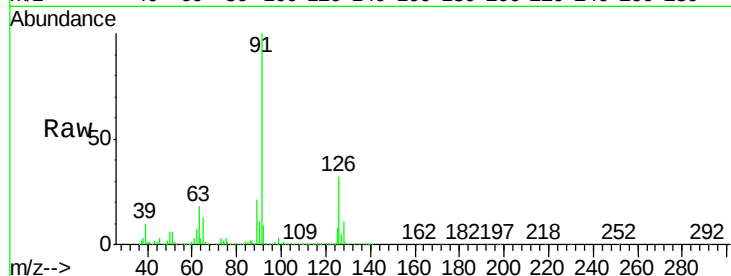
Ion Ratio Lower Upper

91 100

126 31.3 12.2 49.0

Manual Integrations
APPROVED

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#72

4-Ethyltoluene

Concen: 10.641 ppbv

RT: 15.88 min Scan# 4071

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tgt Ion:105 Resp: 4347768

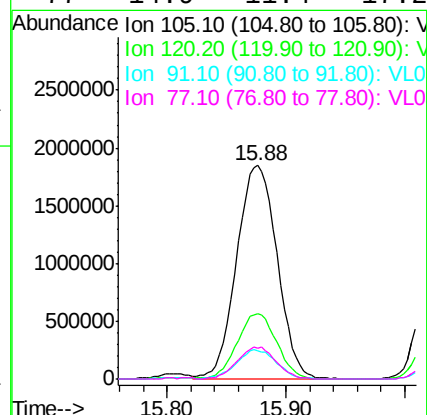
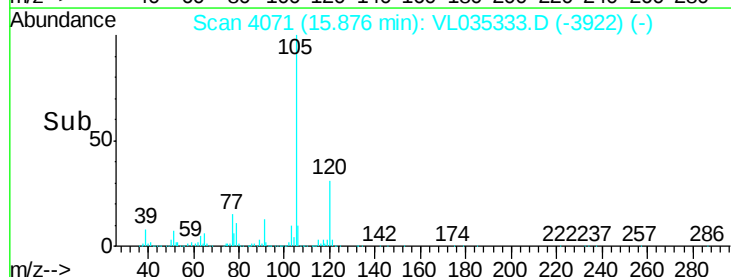
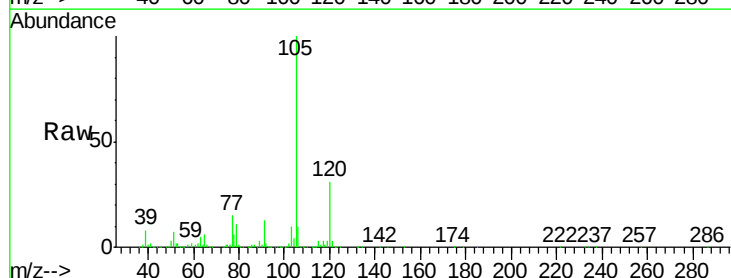
Ion Ratio Lower Upper

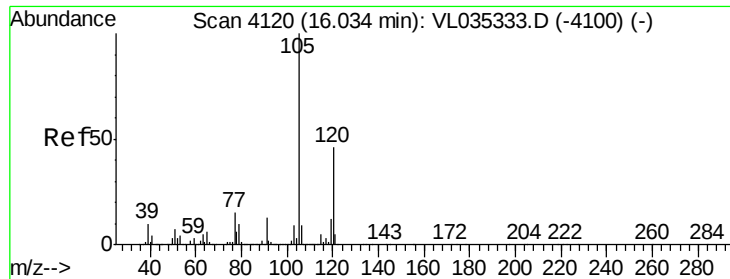
105 100

120 30.0 23.6 35.4

91 13.5 10.7 16.1

77 14.9 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 10.227 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 4093055

Ion Ratio Lower Upper

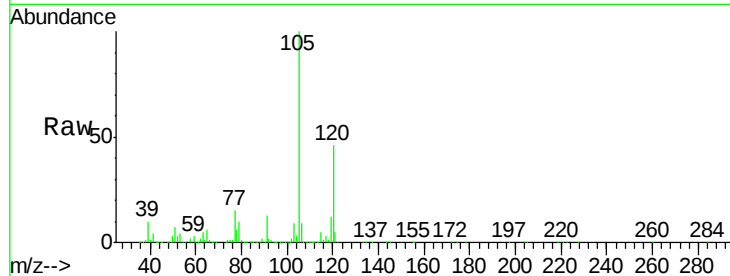
105 100

120 46.1 36.1 54.1

Manual Integrations
APPROVED

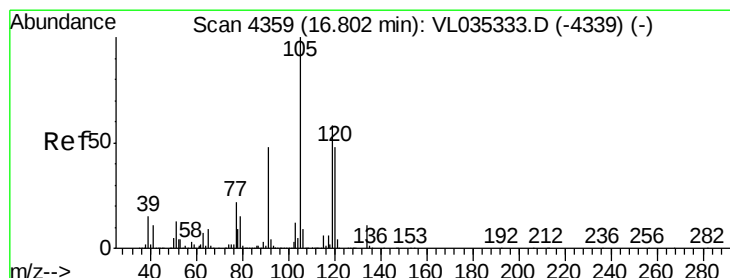
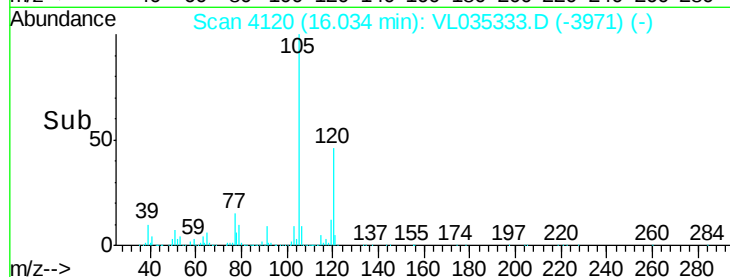
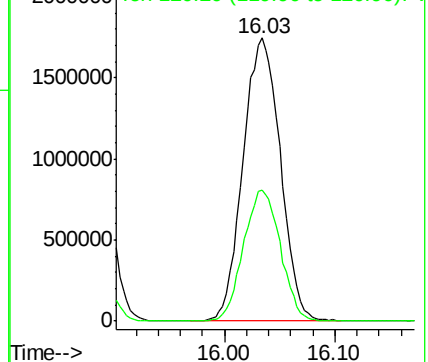
MMDadoda

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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: 9.455 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tgt Ion:105 Resp: 4338882

Ion Ratio Lower Upper

105 100

120 48.1 39.0 58.4

91 48.8 42.6 63.8

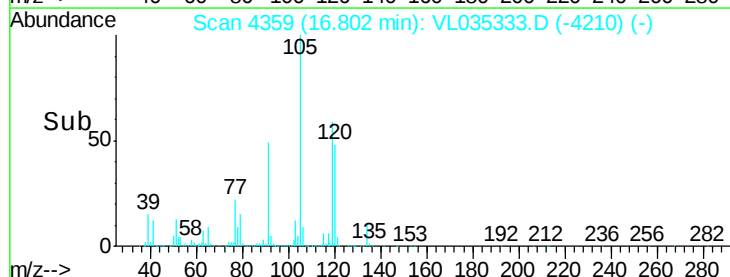
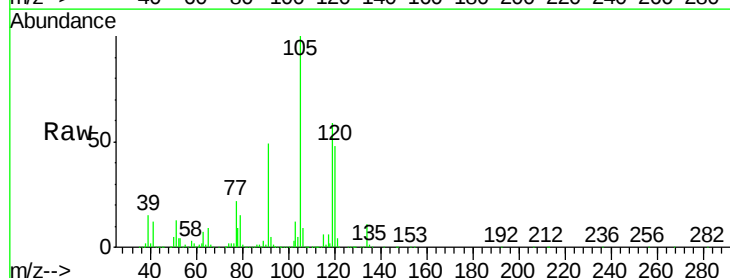
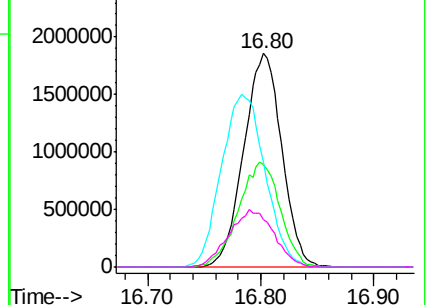
77 22.2 18.2 27.4

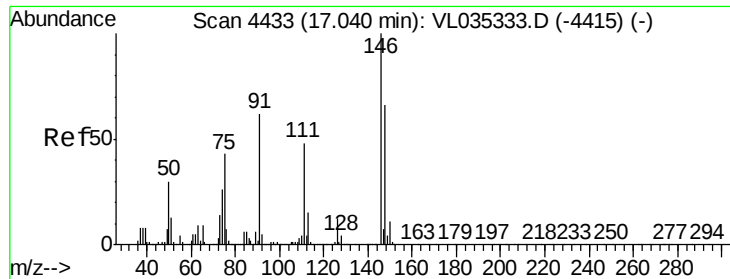
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





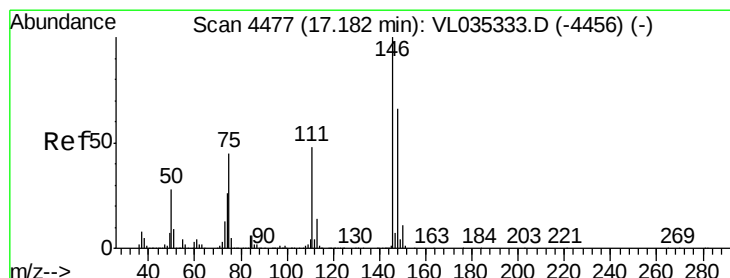
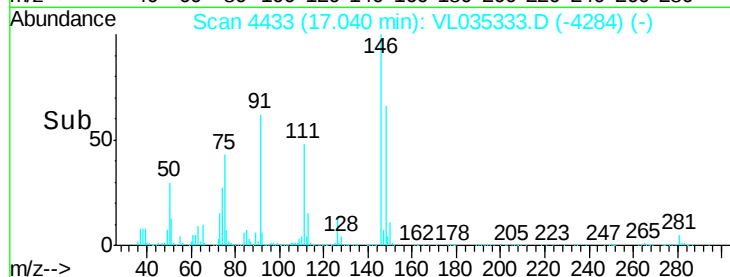
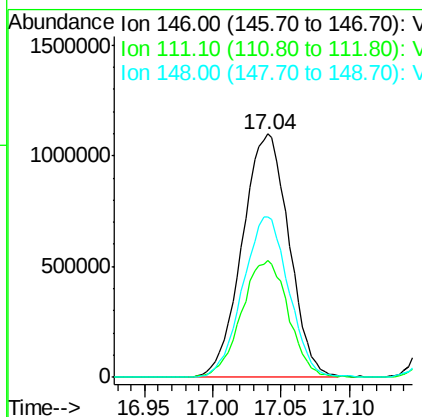
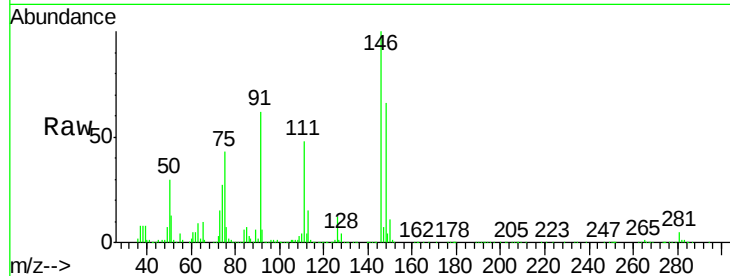
#75
 1,3-Dichlorobenzene
 Concen: 9.113 ppbv
 RT: 17.04 min Scan# 4433
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.4	73.2
148	65.3	32.3	96.9

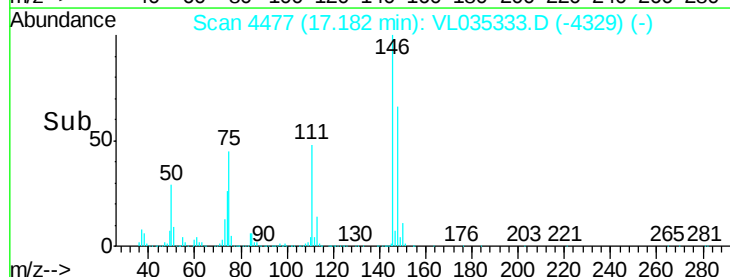
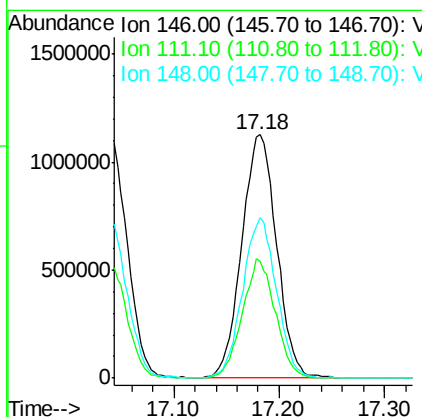
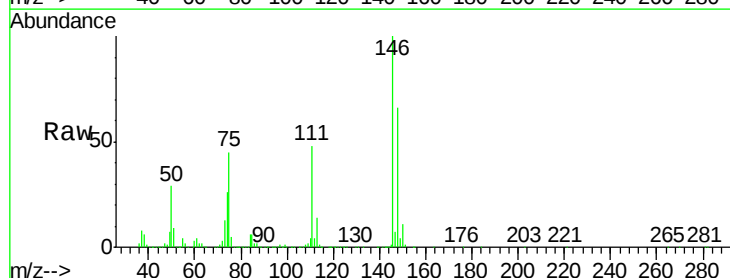
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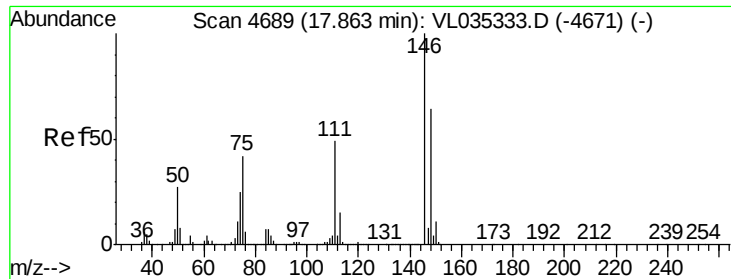
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#76
 1,4-Dichlorobenzene
 Concen: 9.557 ppbv
 RT: 17.18 min Scan# 4477
 Delta R.T. -0.03 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.1	69.3
148	64.3	31.9	95.9





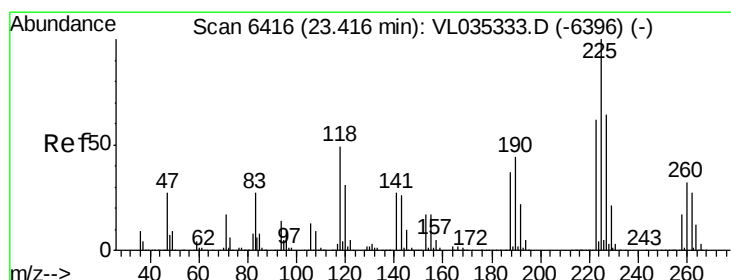
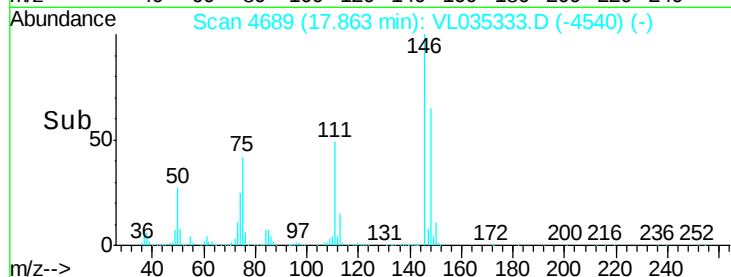
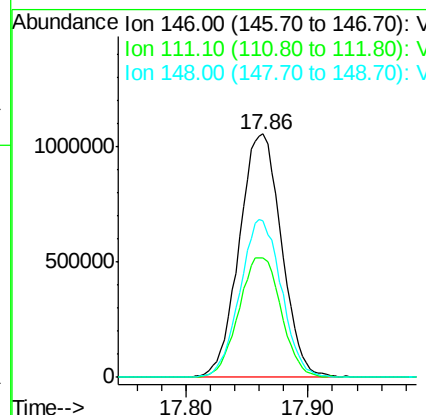
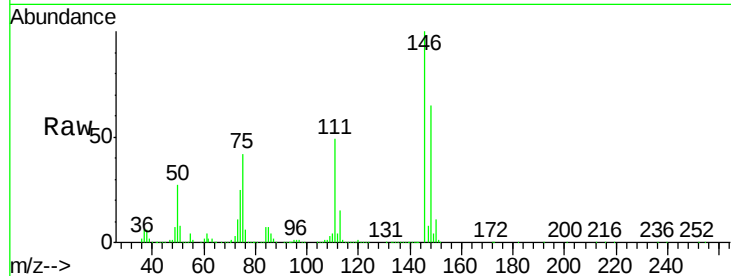
#77
 1,2-Dichlorobenzene
 Concen: 9.557 ppbv
 RT: 17.86 min Scan# 4689
 Delta R.T. -0.02 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.9	74.6
148	63.9	32.3	96.8

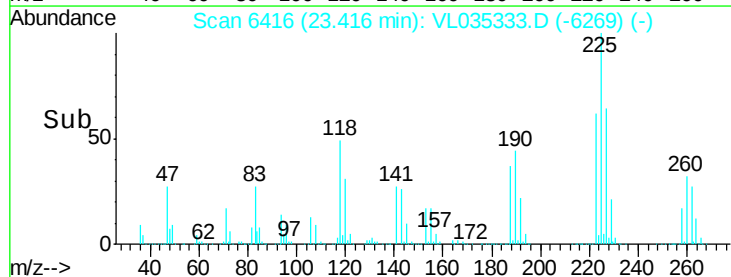
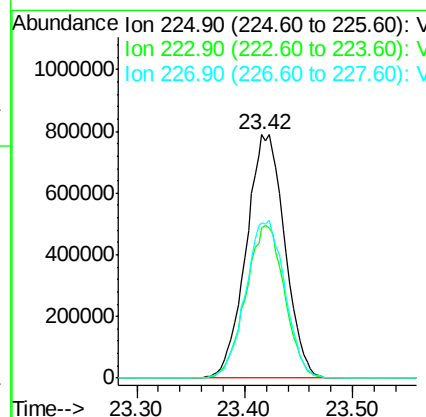
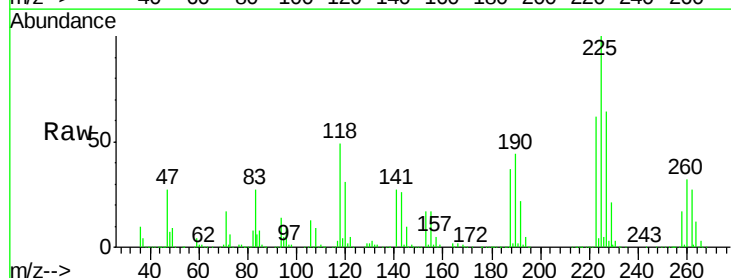
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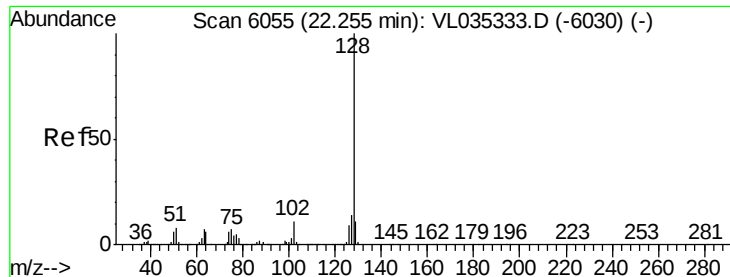
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.186 ppbv
 RT: 23.42 min Scan# 6416
 Delta R.T. -0.03 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.9	76.3
227	65.9	51.0	76.4





#79

Naphthalene

Concen: 11.300 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. -0.03 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Instrument :

MSVOA_L

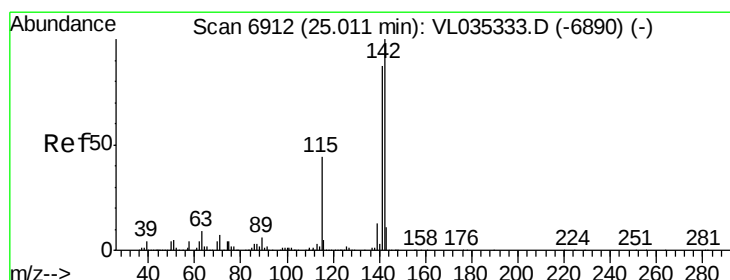
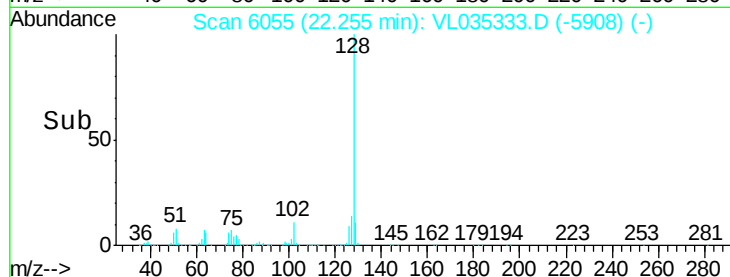
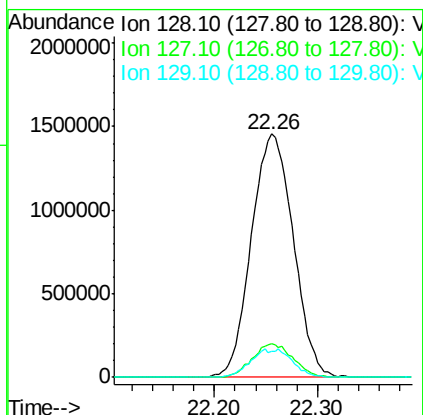
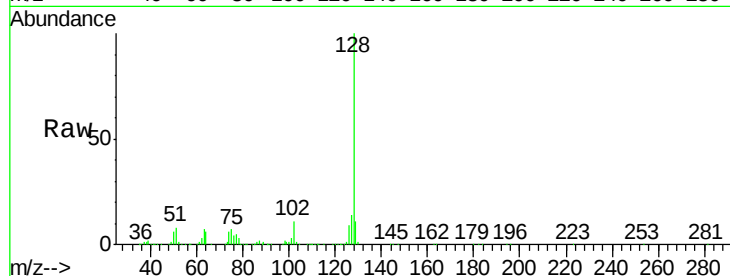
ClientSampleId :

VSTDICCC010

Tot Ion:	128	Resp:	4103977
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.1	15.1
129	10.9	8.5	12.7

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#80

Naphthalene, 2-methyl-

Concen: 13.874 ppbv

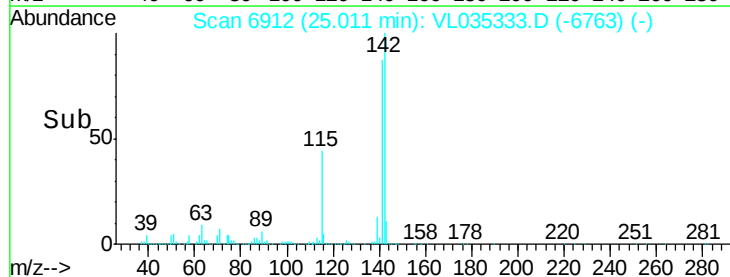
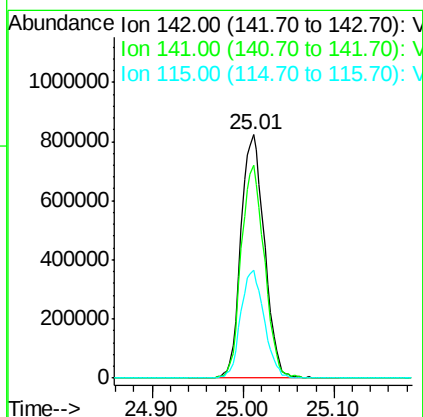
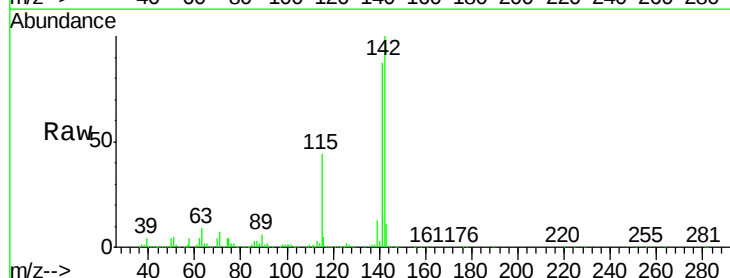
RT: 25.01 min Scan# 6912

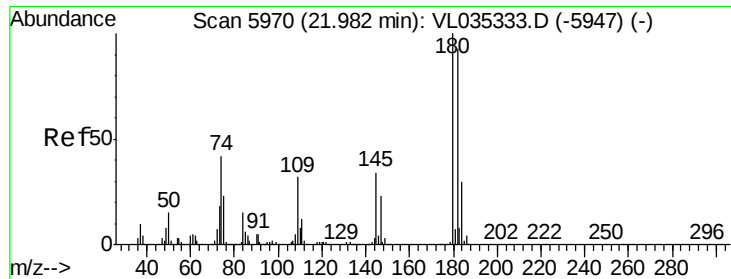
Delta R.T. -0.02 min

Lab File: VL035333.D

Acq: 5 Aug 2020 8:40

Tgt Ion:	142	Resp:	1479573
Ion	Ratio	Lower	Upper
142	100		
141	86.3	68.1	102.1
115	44.4	35.7	53.5





#81
 1,2,4-Trichlorobenzene
 Concen: 10.430 ppbv
 RT: 21.98 min Scan# 5970
 Delta R.T. -0.04 min
 Lab File: VL035333.D
 Acq: 5 Aug 2020 8:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.4	116.2
184	31.4	25.4	38.0

Manual Integrations
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