

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036536.D
 Acq On : 29 Mar 2021 11:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/30/2021 7:43:58 PM

Quant Time: Mar 30 06:59:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1633341	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3885691	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3549357m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3057056	10.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	2624050	9.850	ppbv 98
3) Chlorodifluoromethane	2.99	51	2769665	9.076	ppbv 100
4) Chloromethane	3.14	50	1023054	9.491	ppbv 99
5) Vinyl Chloride	3.26	62	972551	8.775	ppbv 97
6) Bromomethane	3.47	94	559317	9.166	ppbv 93
7) Chloroethane	3.56	64	346155	9.089	ppbv 96
8) Dichlorotetrafluoroethane	3.18	85	2363458	9.295	ppbv 100
9) Propene	3.01	41	923445	9.492	ppbv 97
10) Heptane	8.12	43	2361020	9.526	ppbv 99
11) Trichlorofluoromethane	3.95	101	2559333	9.427	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1604869	9.246	ppbv 98
13) Ethanol	3.60	45	84496m	7.293	ppbv
14) Bromoethene	3.74	108	664151	9.204	ppbv 97
15) Acetone	3.85	43	1383089	8.603	ppbv 100
16) 1,3-Butadiene	3.32	39	1027637	9.182	ppbv 98
17) tert-Butyl alcohol	4.29	59	1245998	8.904	ppbv 100
18) 1,1-Dichloroethene	4.29	96	675497	8.749	ppbv 96
19) Isopropyl Alcohol	3.97	45	687463	7.774	ppbv 98
20) Methylene Chloride	4.34	84	624170	8.293	ppbv 97
21) Allyl Chloride	4.41	41	1210654	9.447	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	644618	9.005	ppbv 92
23) Vinyl Acetate	5.07	43	2614753	9.509	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1875720	9.358	ppbv 98
25) Ethyl Acetate	5.68	43	3536978	9.254	ppbv 99
26) Hexane	5.68	57	1658273	9.350	ppbv 99
27) Carbon Disulfide	4.55	76	1794265	10.269	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1926131	9.209	ppbv 98
29) Chloroform	5.75	83	2651739	9.349	ppbv 99
30) Cyclohexane	7.13	84	1346247	9.359	ppbv 96
31) cis-1,2-Dichloroethene	5.55	61	1614802	9.413	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	2631641	9.206	ppbv 98
34) 2-Butanone	5.25	43	1743404	9.192	ppbv 100
35) Carbon Tetrachloride	7.02	117	2776878	9.304	ppbv 98
36) Benzene	6.89	78	3380361	9.433	ppbv 99
37) 1,2-Dichloroethane	6.31	62	1987566	9.423	ppbv 100
38) Trichloroethene	7.83	130	1202145	8.620	ppbv 97
39) 1,2-Dichloropropane	7.62	63	1355192	9.322	ppbv 97
40) 1,4-Dioxane	7.84	88	268170m	7.926	ppbv
41) Tetrahydrofuran	6.05	42	795048	9.091	ppbv 98
42) Bromodichloromethane	7.79	83	2773750	9.668	ppbv 98
43) Methyl Methacrylate	8.01	69	1244740	10.344	ppbv 97

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5755641	9.126	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1373189	9.993	ppbv	97
46) cis-1,3-Dichloropropene	8.71	75	1714542	9.761	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	1361779	9.248	ppbv	97
48) Dibromochloromethane	10.31	129	2213739	9.863	ppbv	100
49) Bromoform	13.04	173	1757590	9.718	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2744538	10.000	ppbv	98
51) 2-Hexanone	10.14	43	1460871	10.548	ppbv #	100
52) Tetrachloroethene	11.23	164	1102015	8.351	ppbv	97
53) Toluene	9.81	91	3735697	9.789	ppbv	99
54) 1,2-Dibromoethane	10.62	107	1912670	9.198	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1509035	9.400	ppbv #	59
57) Chlorobenzene	12.15	112	2658765	8.804	ppbv	98
58) Ethyl Benzene	12.71	91	4975767	9.636	ppbv	98
59) m/p-Xylene	13.00	91	8418230m	18.691	ppbv	
60) o-Xylene	13.70	91	3975267	9.128	ppbv	100
61) Styrene	13.53	104	2311207	10.549	ppbv	99
62) Isopropylbenzene	14.67	105	5291038	9.022	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	2806224	8.447	ppbv	100
64) n-propylbenzene	15.56	120	1379272	9.619	ppbv	98
65) tert-Butylbenzene	16.75	119	4558181	8.963	ppbv	99
66) Benzyl Chloride	16.99	91	598035	10.639	ppbv	100
67) sec-Butylbenzene	17.30	105	6409501	8.929	ppbv	100
69) p-Isopropyltoluene	17.66	119	5275544	9.411	ppbv	100
70) n-Butylbenzene	18.56	91	5523806	9.504	ppbv	100
71) 2-Chlorotoluene	15.46	91	4068183	9.257	ppbv	100
72) 4-Ethyltoluene	15.84	105	4552121	9.539	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	4114941	9.239	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	4226599	8.868	ppbv	99
75) 1,3-Dichlorobenzene	17.00	146	2323366	8.660	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	2280824	8.563	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2244141	8.899	ppbv	98
78) Hexachloro-1,3-Butadiene	23.38	225	1883830	8.341	ppbv	98
79) Naphthalene	22.20	128	3385620	12.173	ppbv	99
80) Naphthalene, 2-methyl-	24.98	142	623437	11.367	ppbv	98
81) 1,2,4-Trichlorobenzene	21.93	180	1878733m	10.941	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1633341

Ion Ratio Lower Upper

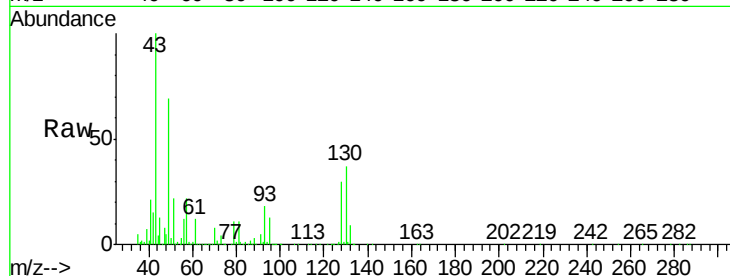
49 100

128 46.5 23.5 70.6

130 57.0 29.1 87.4

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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

5.67

800000

600000

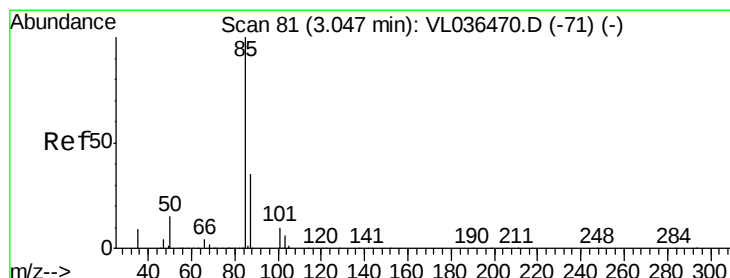
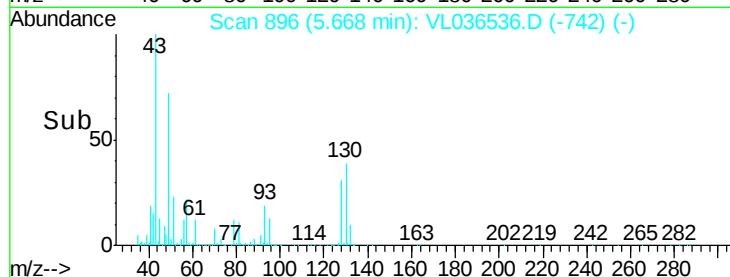
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 9.850 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036536.D

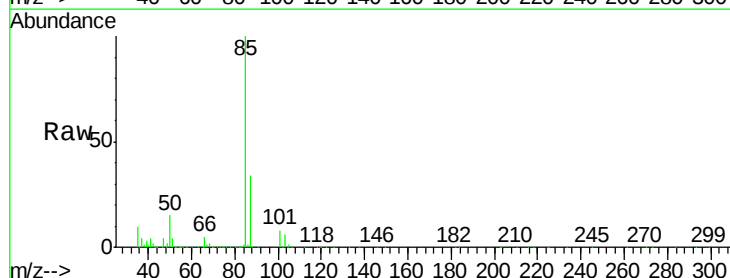
Acq: 29 Mar 2021 11:04

Tgt Ion: 85 Resp: 2624050

Ion Ratio Lower Upper

85 100

87 33.8 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

1500000

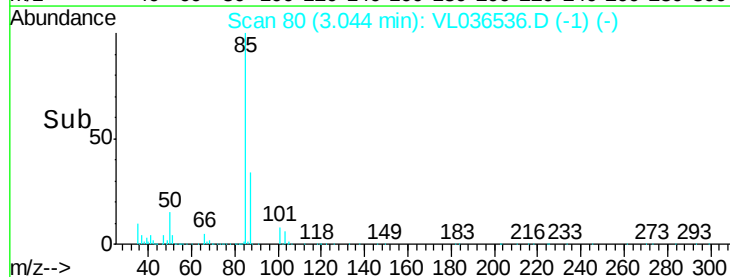
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500000

0

3.00 3.10 3.20

Time-->





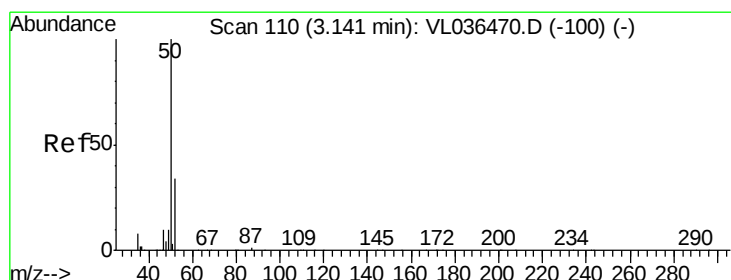
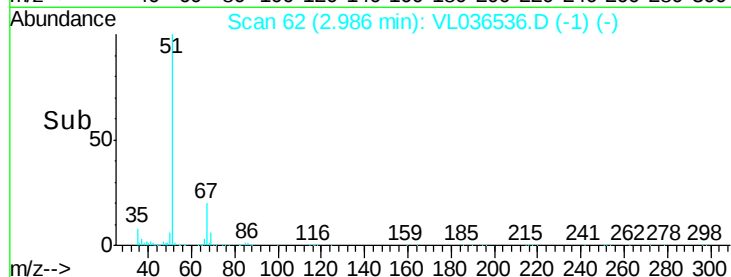
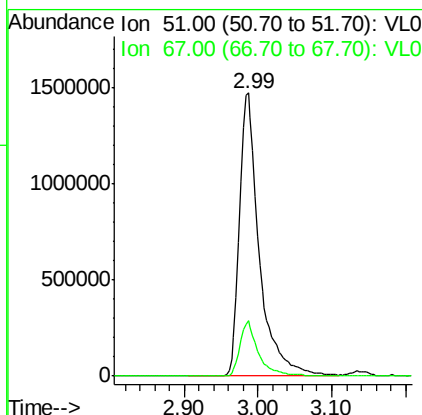
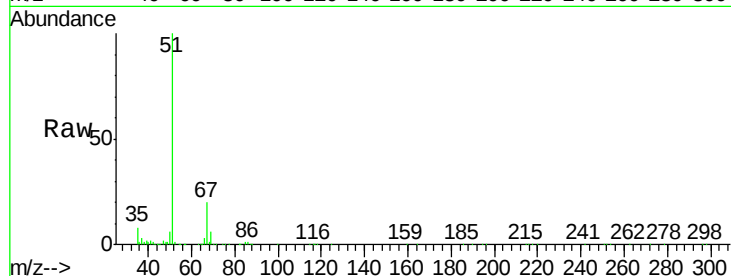
#3
Chlorodifluoromethane
Concen: 9.076 ppbv
RT: 2.99 min Scan# 62
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 2769665
Ion Ratio Lower Upper
51 100
67 18.4 14.7 22.1

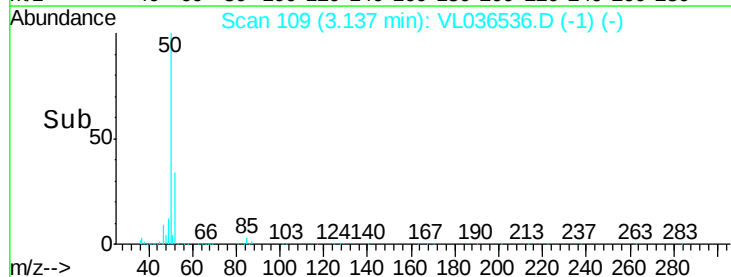
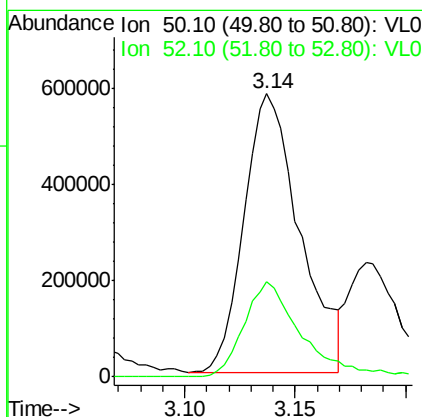
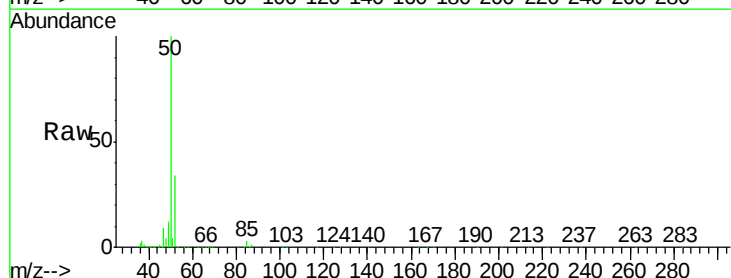
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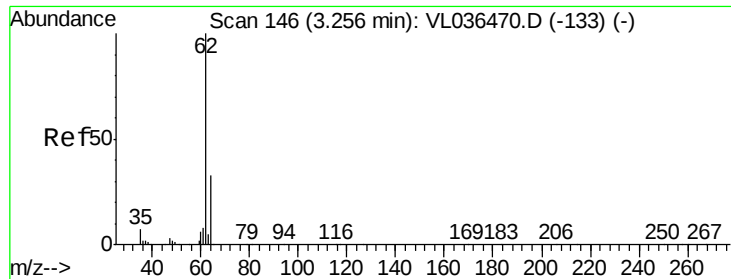
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#4
Chloromethane
Concen: 9.491 ppbv
RT: 3.14 min Scan# 109
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion: 50 Resp: 1023054
Ion Ratio Lower Upper
50 100
52 34.1 27.0 40.6





#5

Vinyl Chloride

Concen: 8.775 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 972551

Ion Ratio Lower Upper

62 100

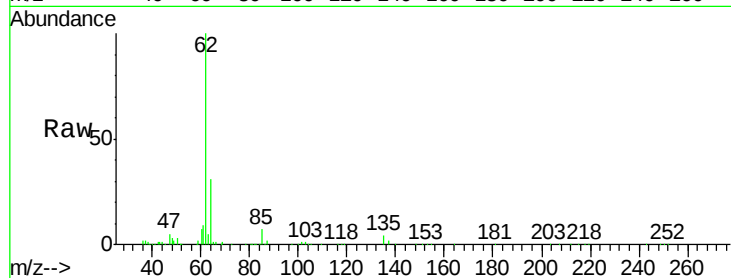
64 31.2 26.4 39.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.26

600000

500000

400000

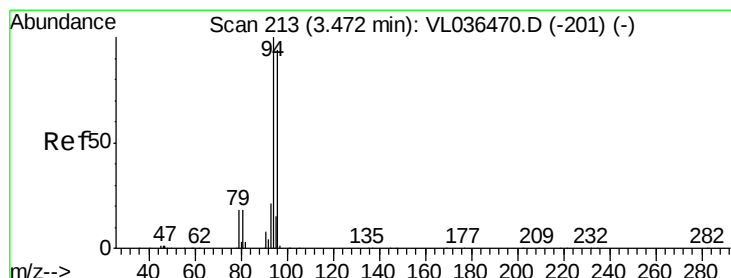
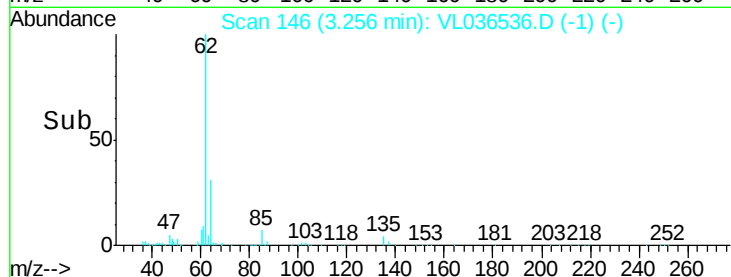
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200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.166 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL036536.D

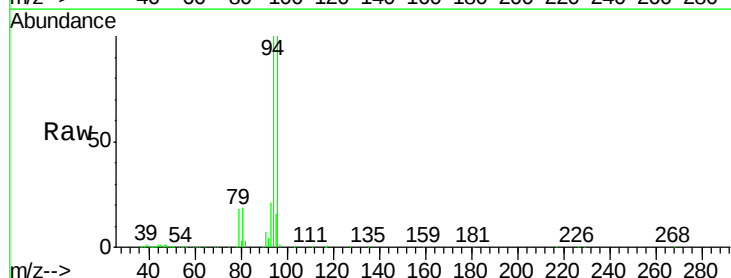
Acq: 29 Mar 2021 11:04

Tgt Ion: 94 Resp: 559317

Ion Ratio Lower Upper

94 100

96 100.0 74.9 112.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

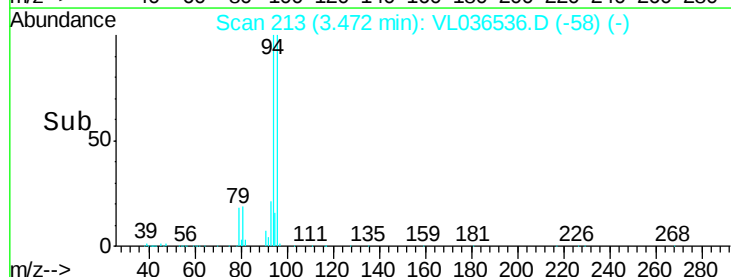
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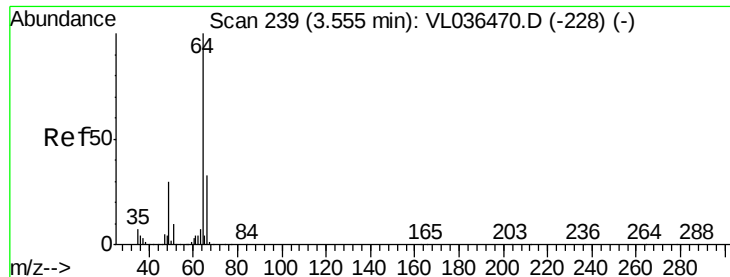
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.089 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 346155

Ion Ratio Lower Upper

64 100

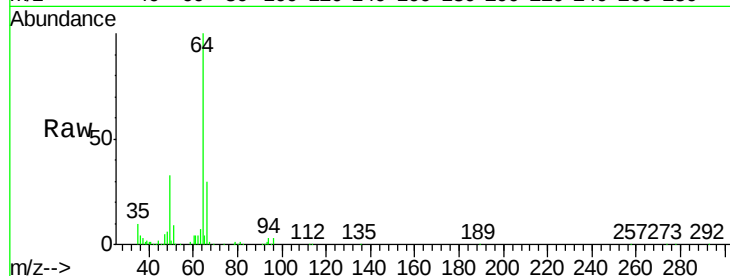
66 30.4 26.2 39.2

Manual Integrations

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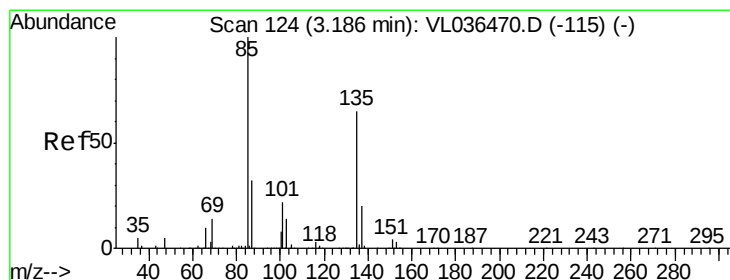
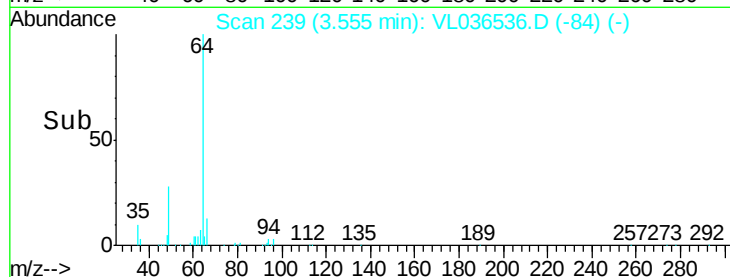
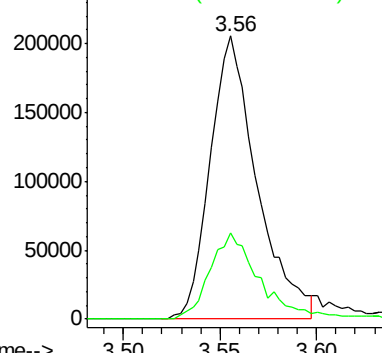
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.295 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL036536.D

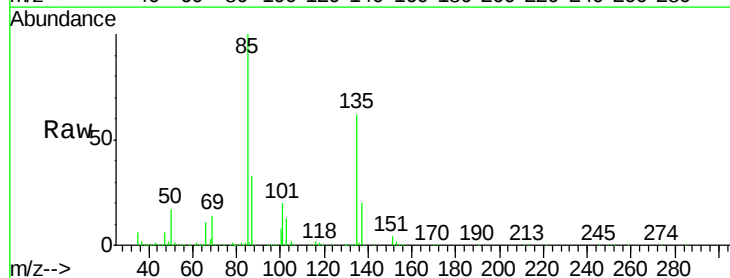
Acq: 29 Mar 2021 11:04

Tgt Ion: 85 Resp: 2363458

Ion Ratio Lower Upper

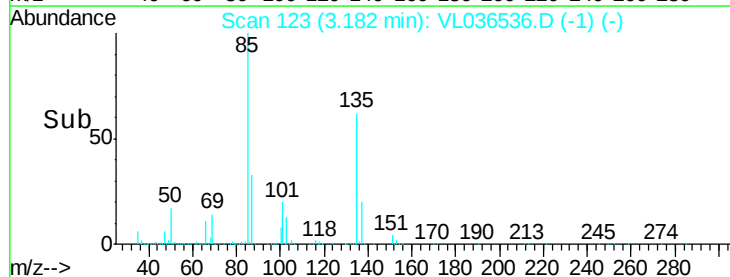
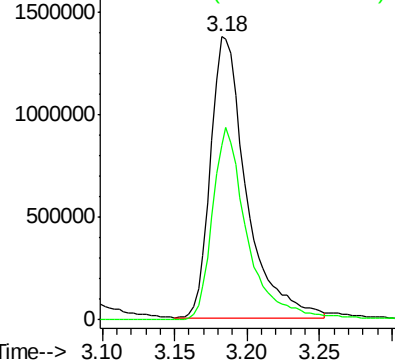
85 100

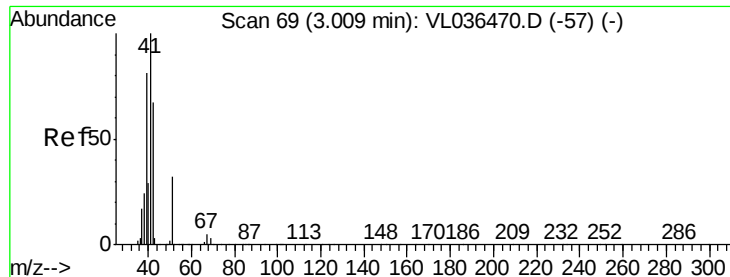
135 67.7 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.492 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036536.D

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Tot Ion: 41 Resp: 923445

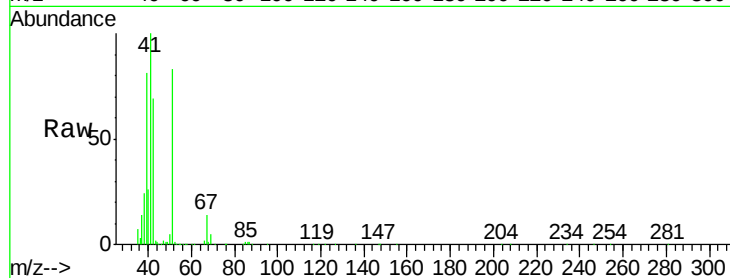
Ion Ratio Lower Upper

41 100

42 69.1 57.0 85.4

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

600000

500000

400000

300000

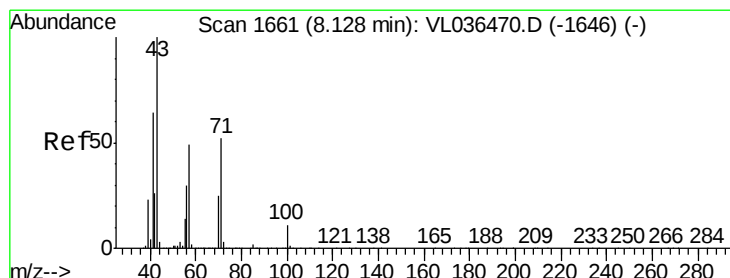
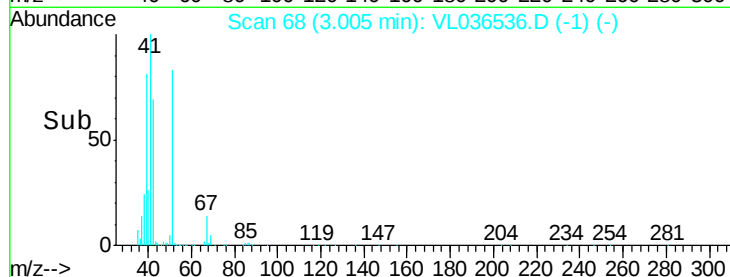
200000

100000

0

Time-->

2.90 3.00 3.10



#10

Heptane

Concen: 9.526 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL036536.D

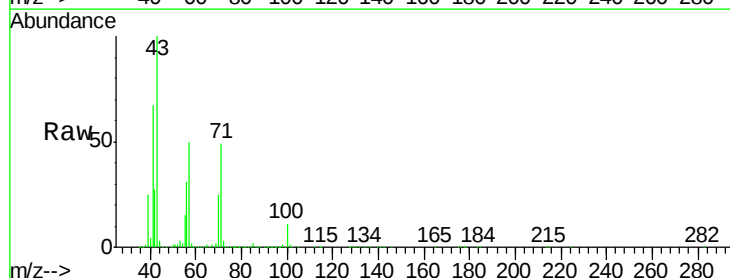
Acq: 29 Mar 2021 11:04

Tgt Ion: 43 Resp: 2361020

Ion Ratio Lower Upper

43 100

57 49.3 39.0 58.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.12

1200000

1000000

800000

600000

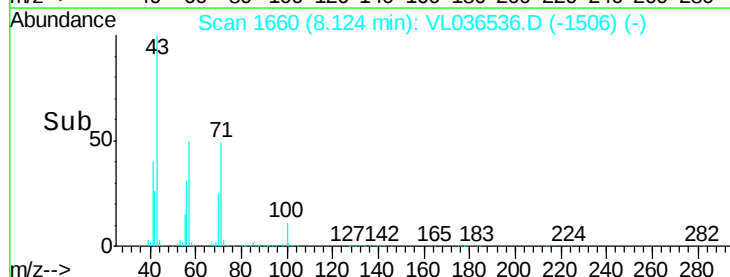
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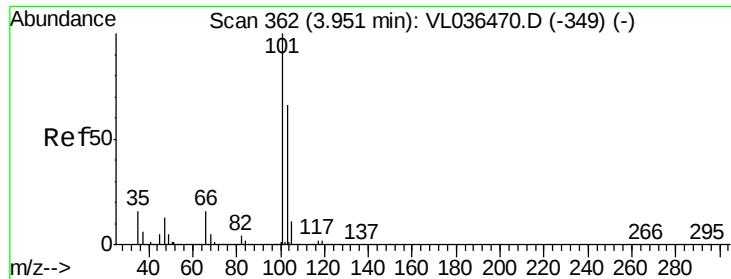
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0

Time-->

8.00 8.10 8.20





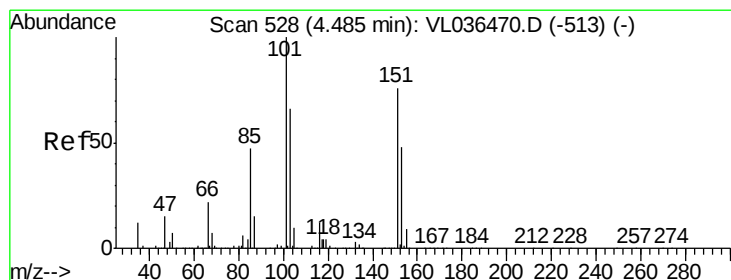
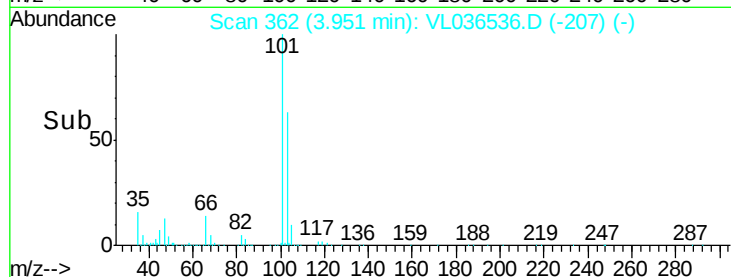
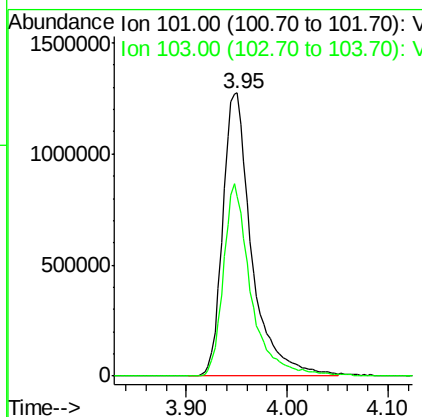
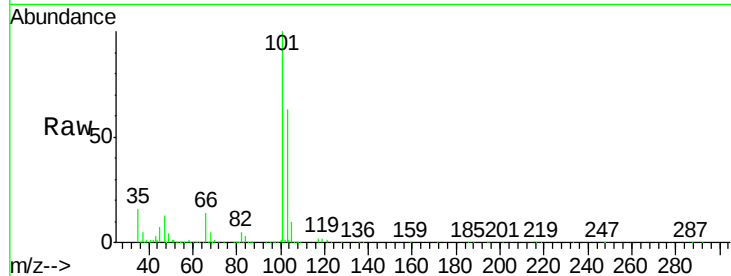
#11
 Trichlorofluoromethane
 Concen: 9.427 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL036536.D
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Instrument :
 MSVOA_L
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Tot Ion:101 Resp: 2559333
 Ion Ratio Lower Upper
 101 100
 103 63.3 52.5 78.7

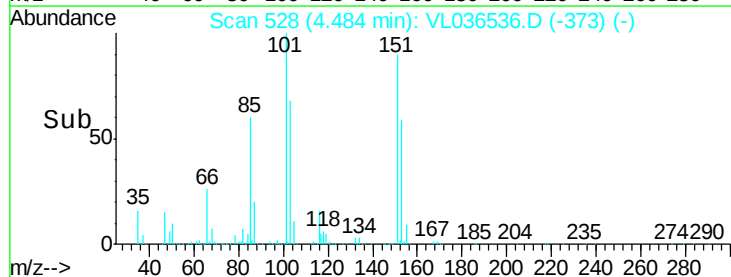
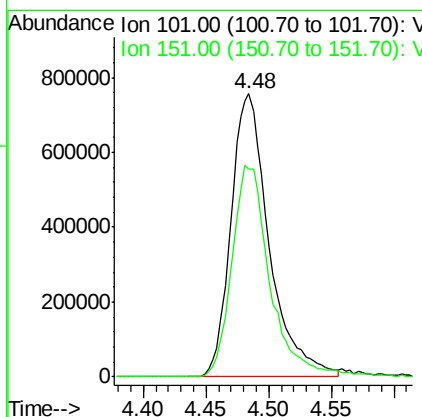
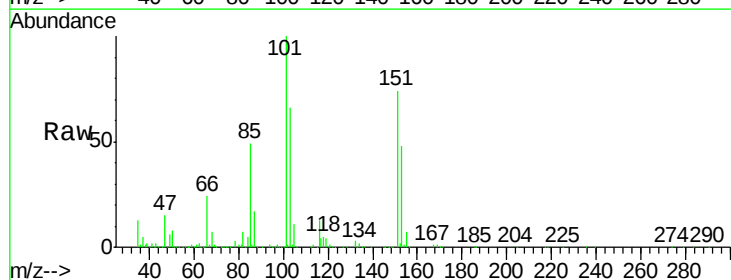
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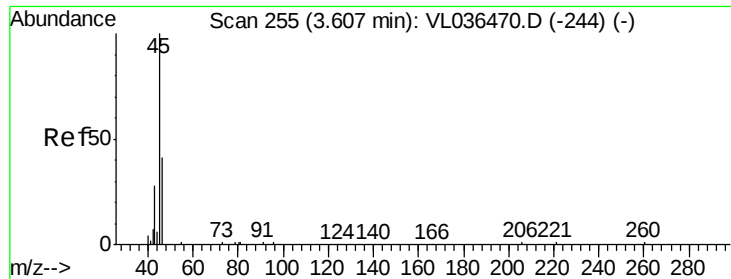
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.246 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion:101 Resp: 1604869
 Ion Ratio Lower Upper
 101 100
 151 74.8 60.9 91.3





#13

Ethanol

Concen: 7.293 ppbv m

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 84496

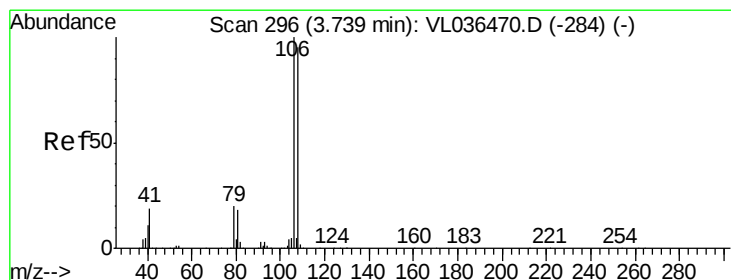
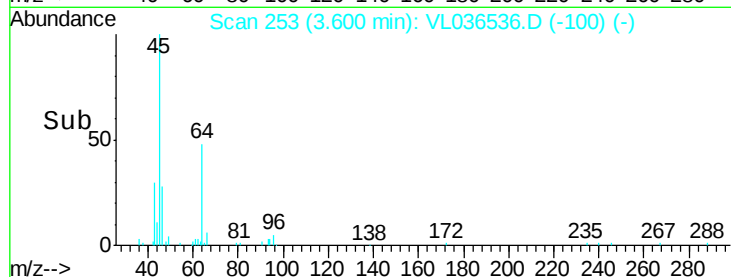
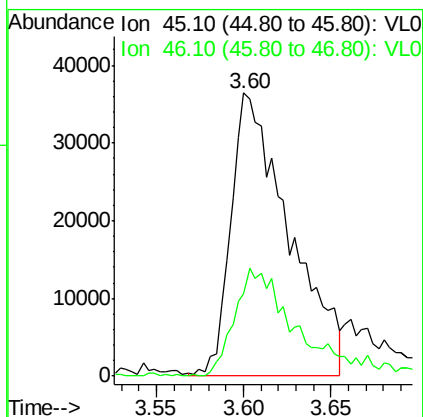
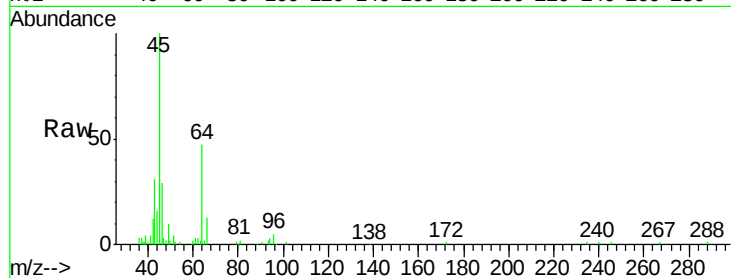
Ion Ratio Lower Upper

45 100

46 43.6 16.6 66.2

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#14

Bromoethene

Concen: 9.204 ppbv

RT: 3.74 min Scan# 295

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

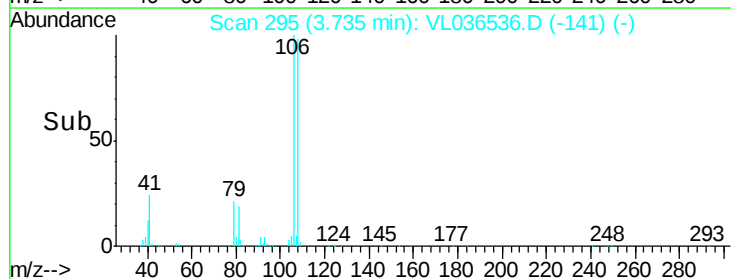
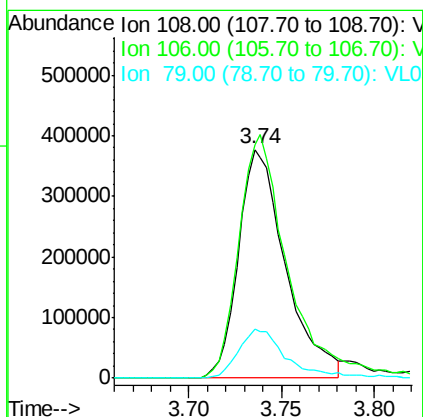
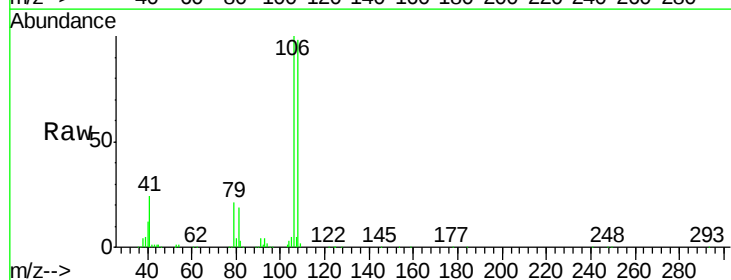
Tgt Ion: 108 Resp: 664151

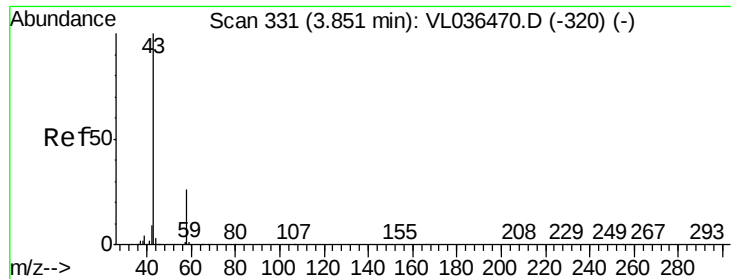
Ion Ratio Lower Upper

108 100

106 113.7 89.0 133.6

79 22.9 16.6 25.0





#15

Acetone

Concen: 8.603 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1383089

Ion Ratio Lower Upper

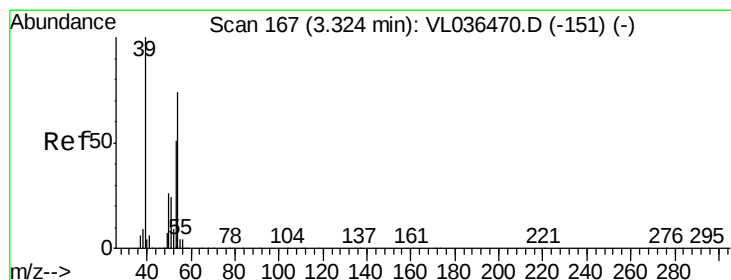
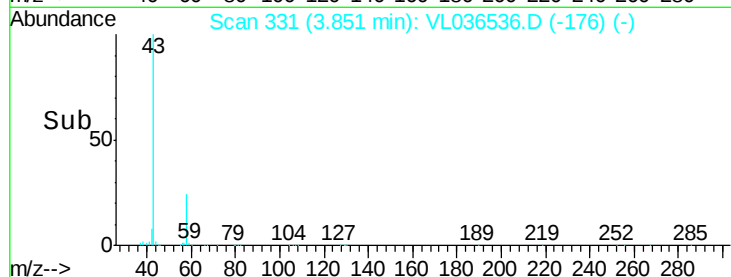
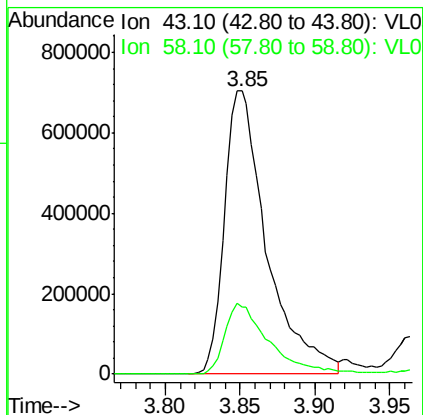
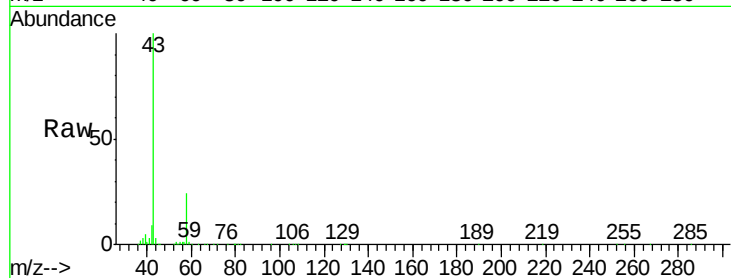
43 100

58 26.3 21.2 31.8

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#16

1,3-Butadiene

Concen: 9.182 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL036536.D

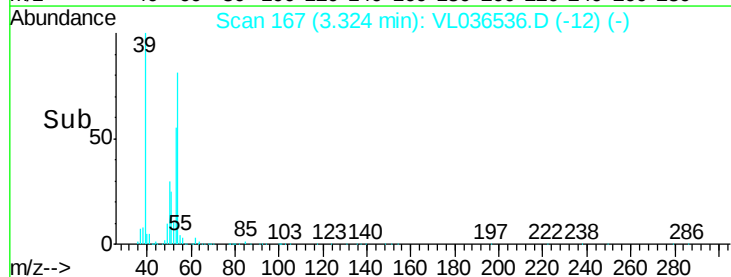
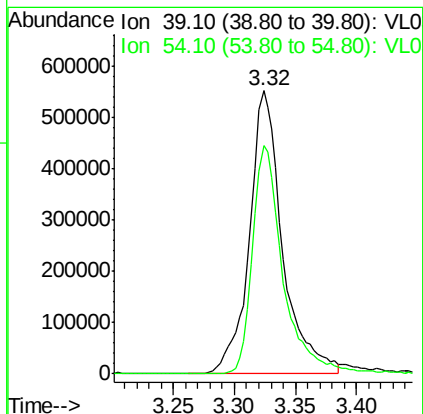
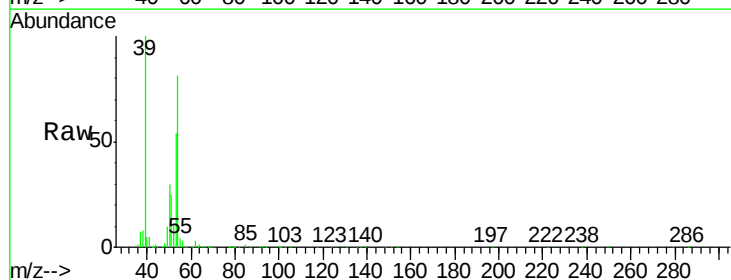
Acq: 29 Mar 2021 11:04

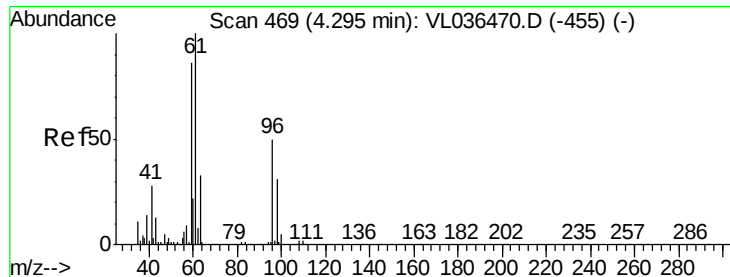
Tgt Ion: 39 Resp: 1027637

Ion Ratio Lower Upper

39 100

54 75.2 58.8 88.2





#17

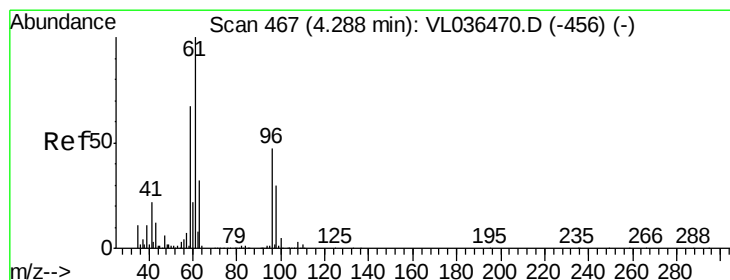
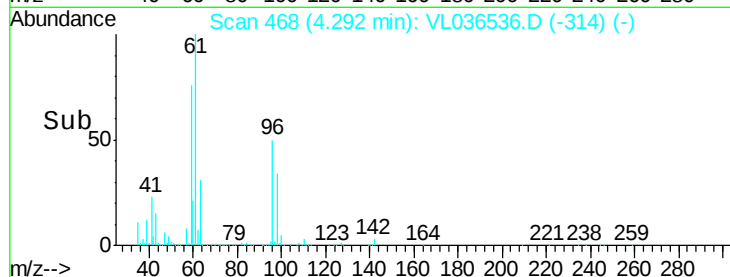
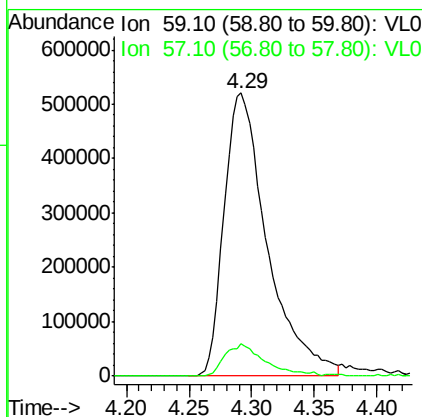
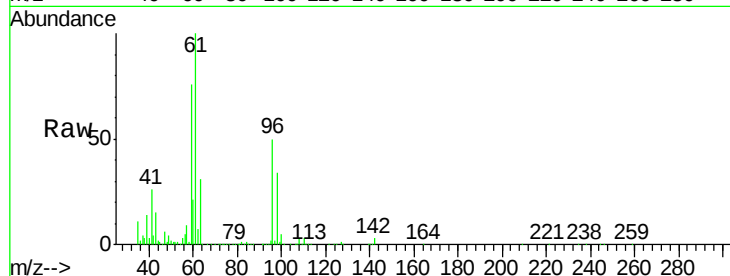
tert-Butyl alcohol
Concen: 8.904 ppbv
RT: 4.29 min Scan# 468
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 59 Resp: 1245998
Ion Ratio Lower Upper
59 100
57 10.9 8.6 12.8

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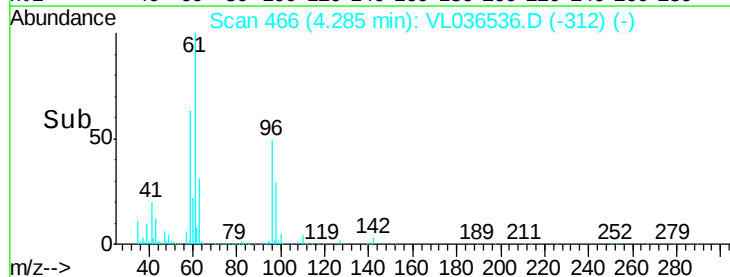
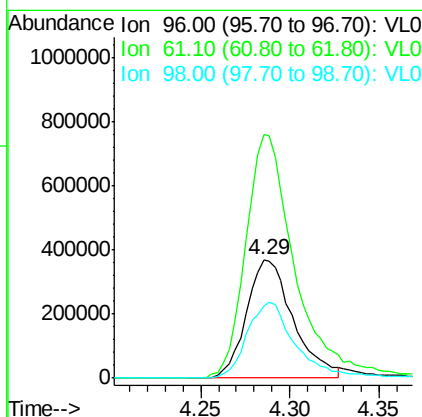
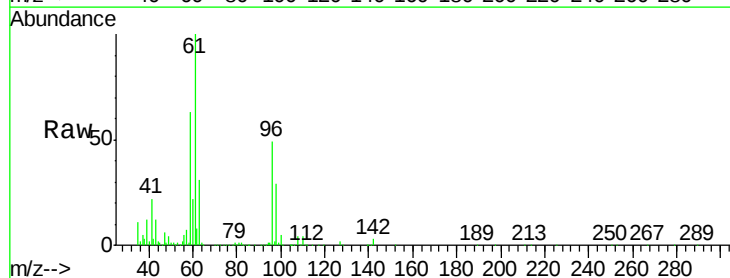
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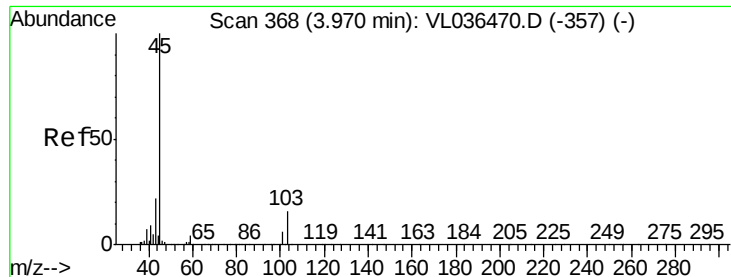


#18

1,1-Dichloroethene
Concen: 8.749 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion: 96 Resp: 675497
Ion Ratio Lower Upper
96 100
61 205.3 168.6 253.0
98 60.3 50.8 76.2





#19

Isopropyl Alcohol

Concen: 7.774 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 687463

Ion Ratio Lower Upper

45 100

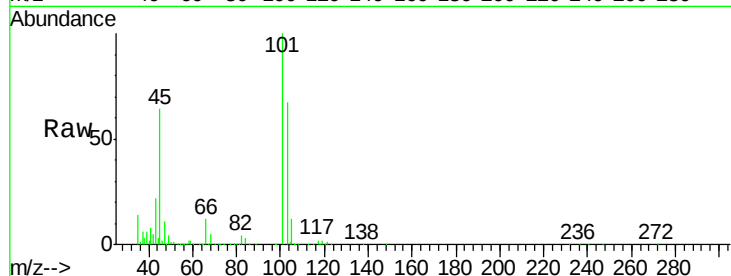
58 2.9 2.9 4.3

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

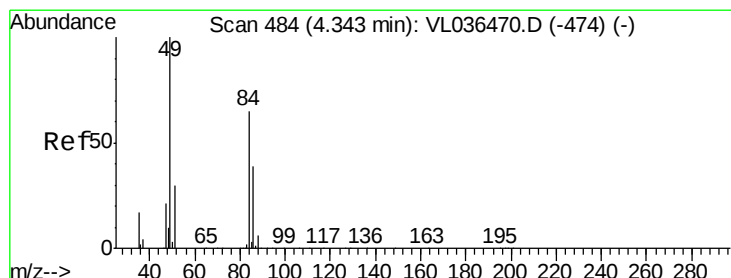
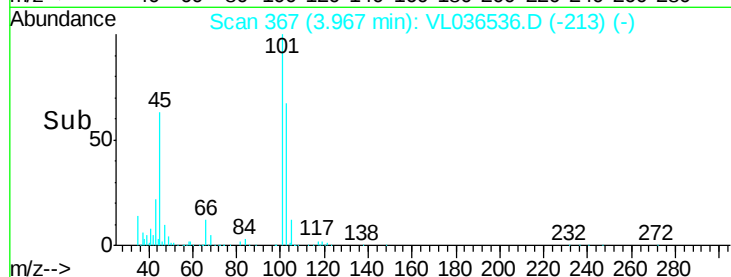
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.293 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Tgt Ion: 84 Resp: 624170

Ion Ratio Lower Upper

84 100

49 155.1 122.9 184.3

51 51.9 36.9 55.3

86 64.1 48.2 72.4

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

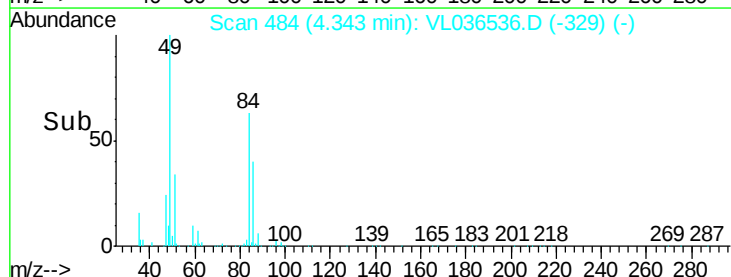
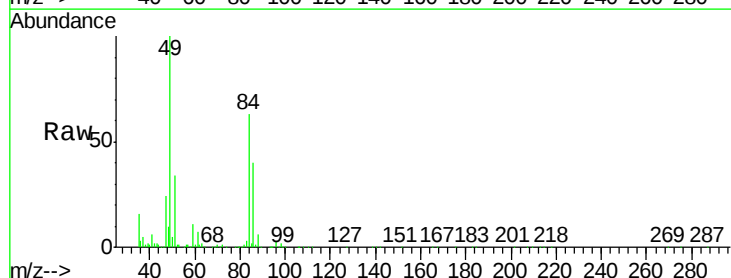
600000

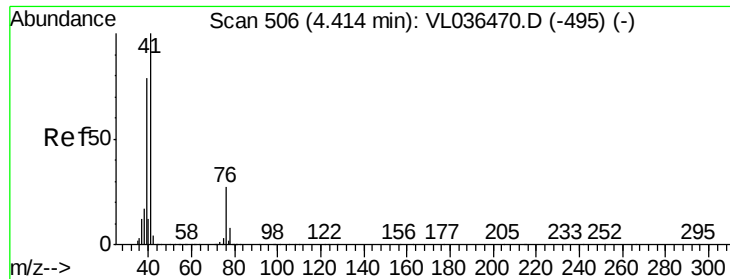
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 9.447 ppbv

RT: 4.41 min Scan# 505

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

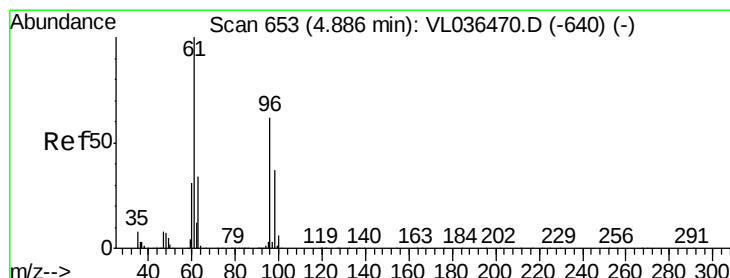
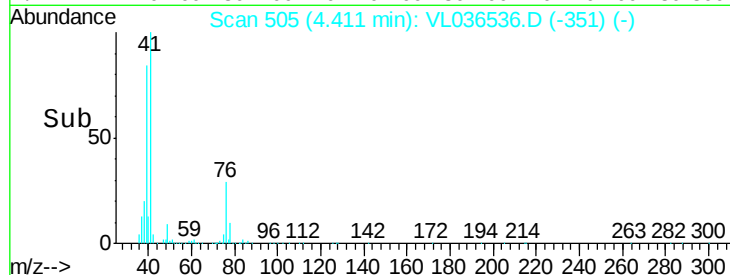
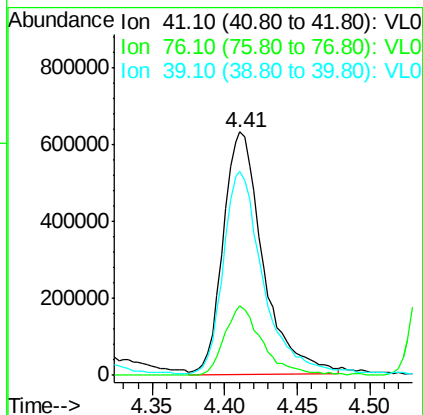
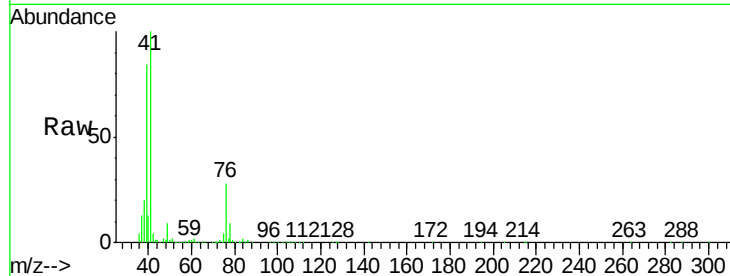
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	1210654
Ion	Ratio	Lower	Upper
41	100		
76	27.7	22.9	34.3
39	84.5	67.3	100.9

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#22

trans-1,2-Dichloroethene

Concen: 9.005 ppbv

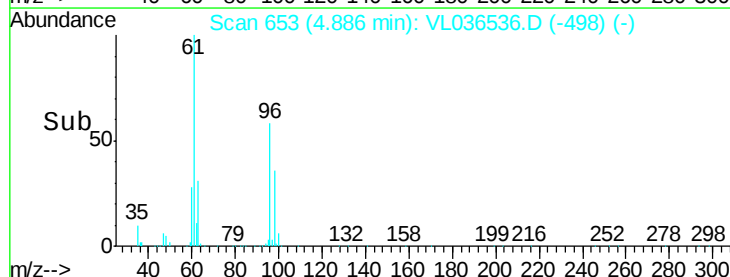
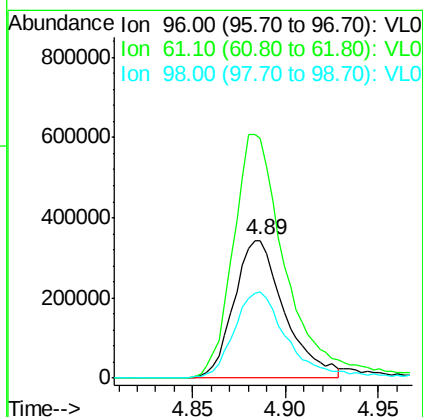
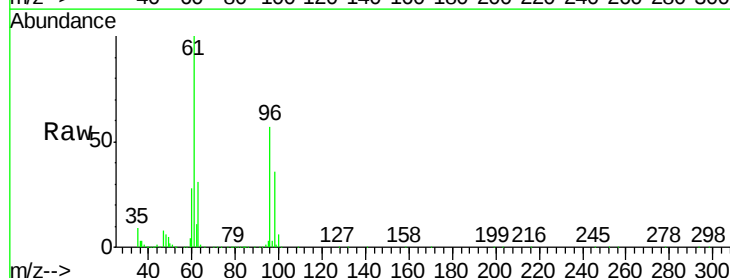
RT: 4.89 min Scan# 653

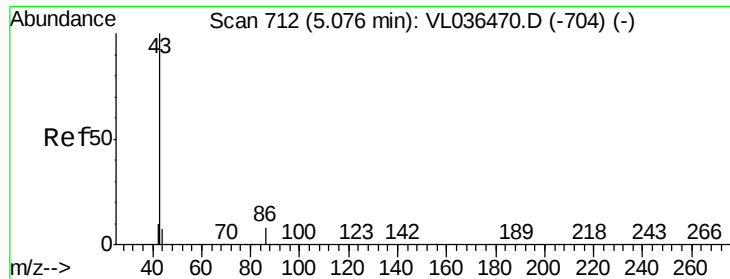
Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Tgt Ion:	96	Resp:	644618
Ion	Ratio	Lower	Upper
96	100		
61	174.4	129.4	194.0
98	62.3	48.2	72.4





#23

Vinyl Acetate

Concen: 9.509 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2614753

Ion Ratio Lower Upper

43 100

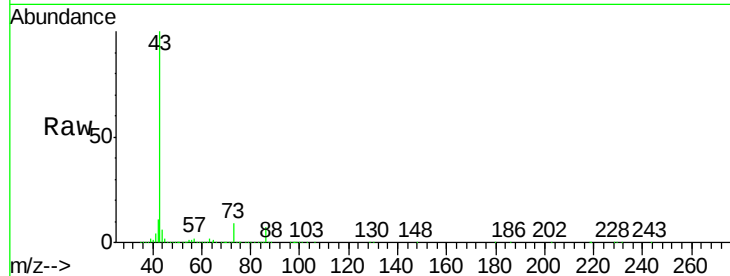
86 7.0 5.4 8.0

42 10.7 8.5 12.7

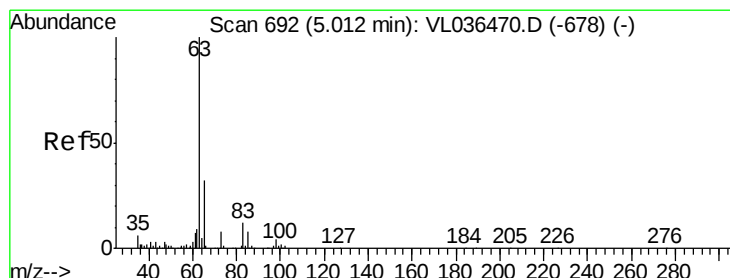
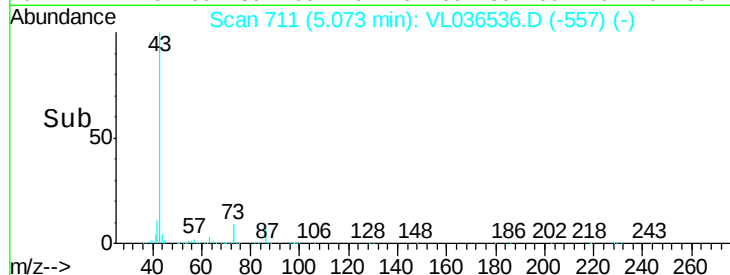
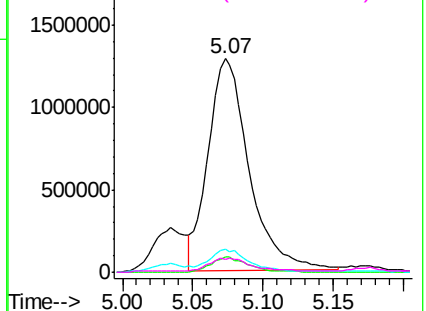
44 5.5 4.6 7.0

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Abundance Ion 43.10 (42.80 to 43.80): VL0
2000000
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: 9.358 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

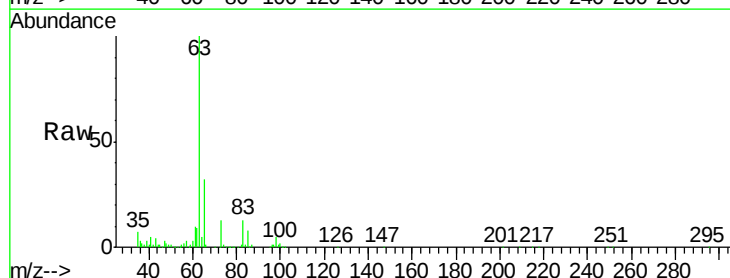
Tgt Ion: 63 Resp: 1875720

Ion Ratio Lower Upper

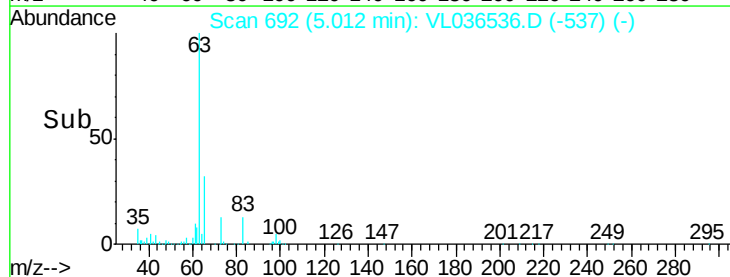
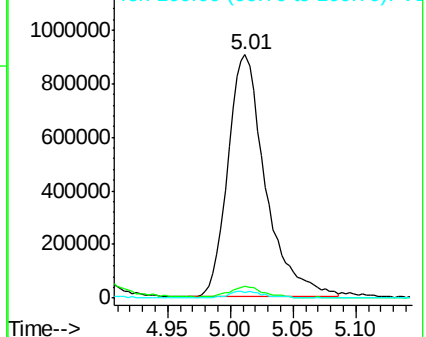
63 100

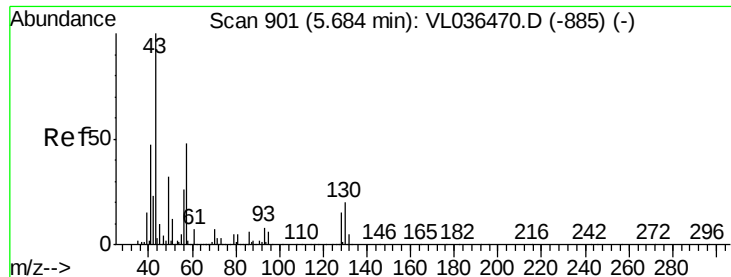
98 4.7 2.1 6.2

100 2.2 0.9 2.8



Abundance Ion 63.10 (62.80 to 63.80): VL0
1200000
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.254 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 3536978

Ion Ratio Lower Upper

43 100

45 9.6 7.9 11.9

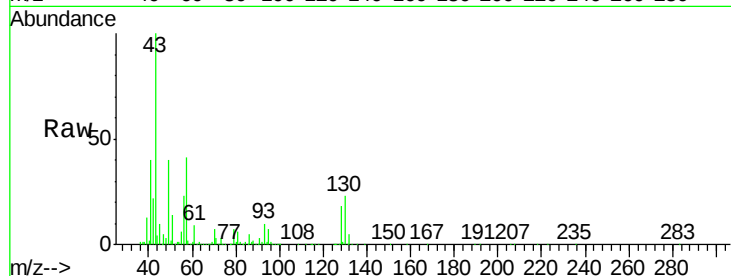
61 9.5 7.4 11.2

70 6.3 5.1 7.7

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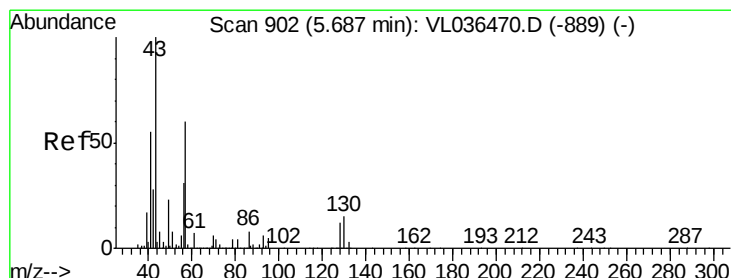
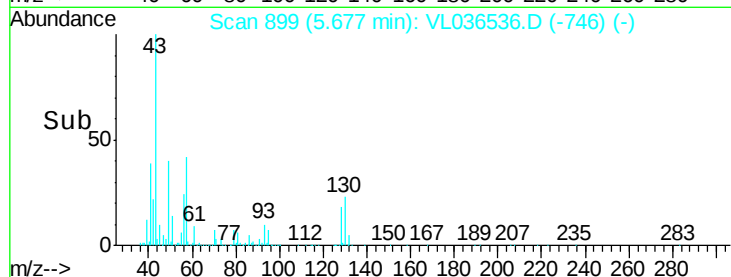
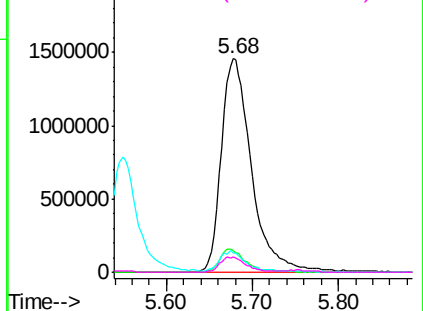


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.350 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Tgt Ion: 57 Resp: 1658273

Ion Ratio Lower Upper

57 100

41 96.3 77.2 115.8

43 214.3 173.8 260.6

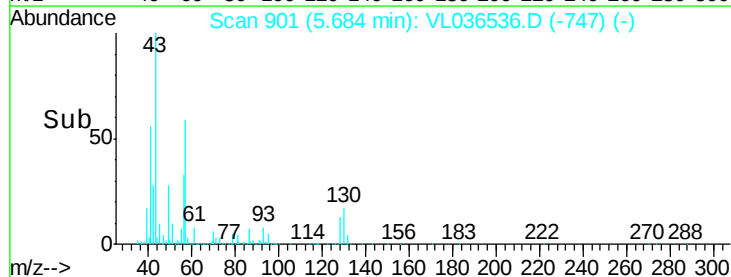
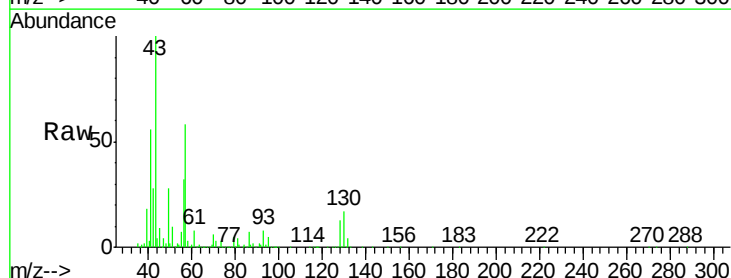
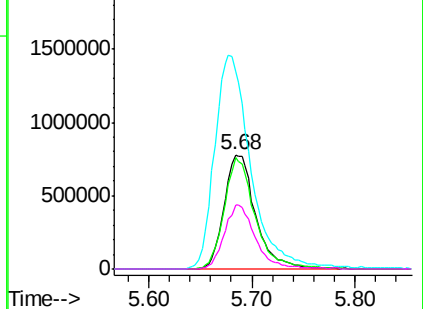
56 56.0 43.8 65.6

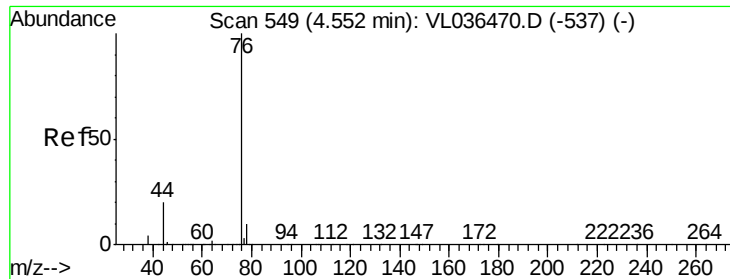
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.269 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1794265

Ion Ratio Lower Upper

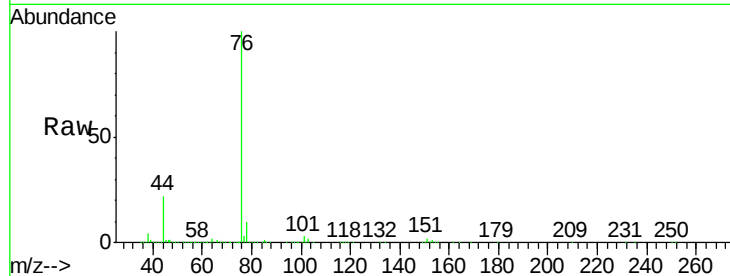
76 100

44 22.4 17.5 26.3

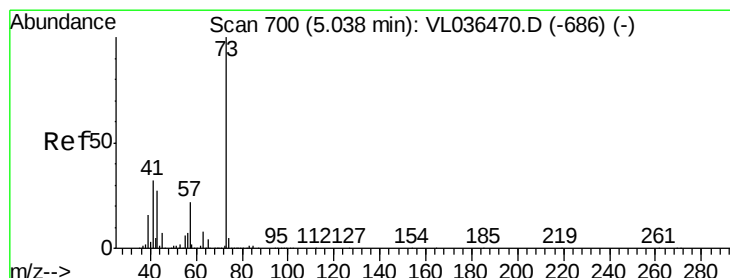
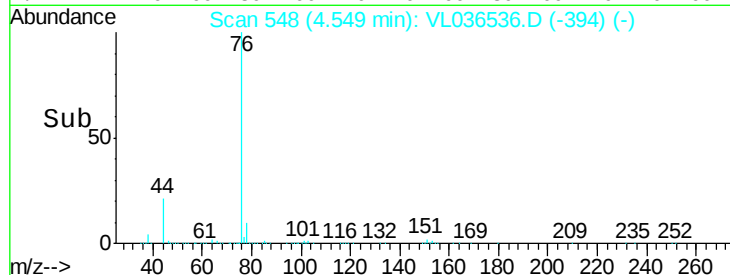
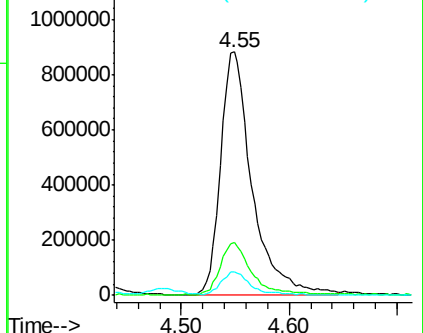
78 9.9 8.6 13.0

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Abundance Ion 76.00 (75.70 to 76.70): VL0
1200000
Ion 44.10 (43.80 to 44.80): VL0
1000000
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.209 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL036536.D

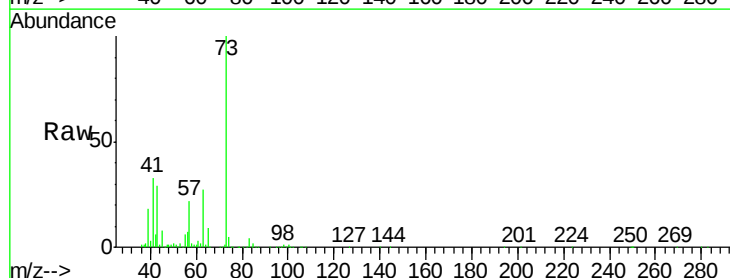
Acq: 29 Mar 2021 11:04

Tgt Ion: 73 Resp: 1926131

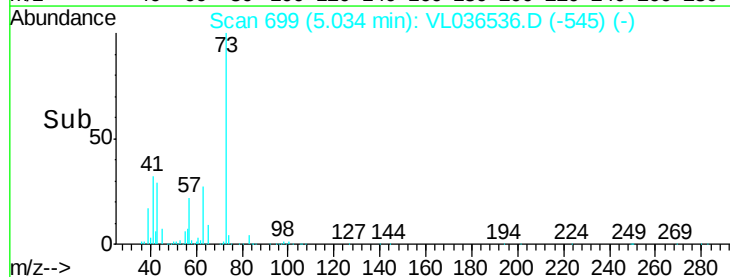
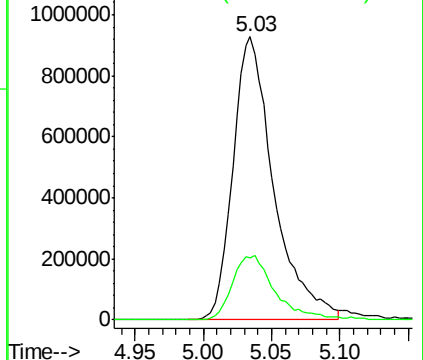
Ion Ratio Lower Upper

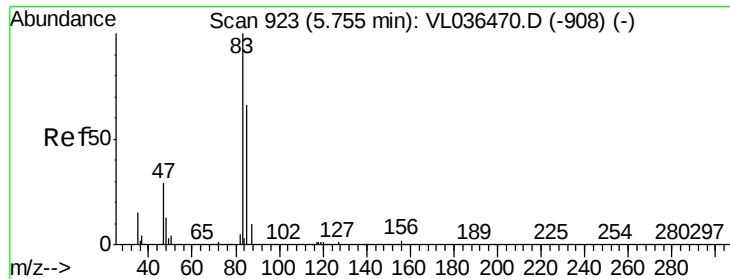
73 100

57 24.1 18.5 27.7



Abundance Ion 73.10 (72.80 to 73.80): VL0
1000000
Ion 57.10 (56.80 to 57.80): VL0





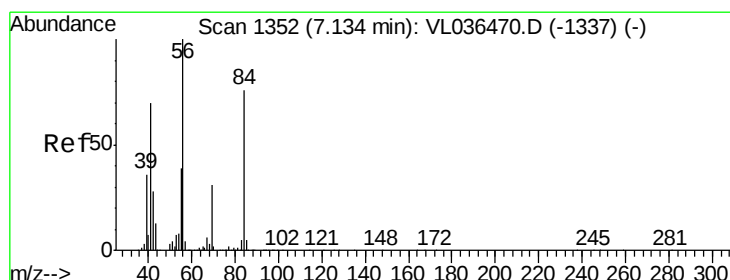
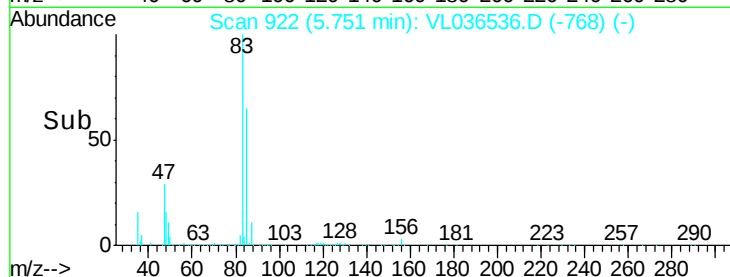
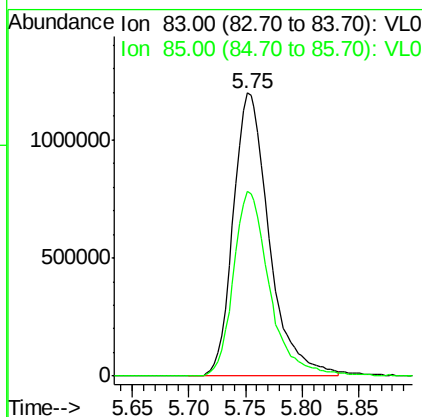
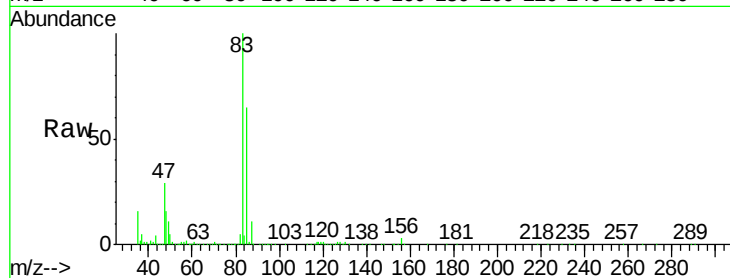
#29
Chloroform
Concen: 9.349 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2651739
Ion Ratio Lower Upper
83 100
85 65.1 52.6 78.8

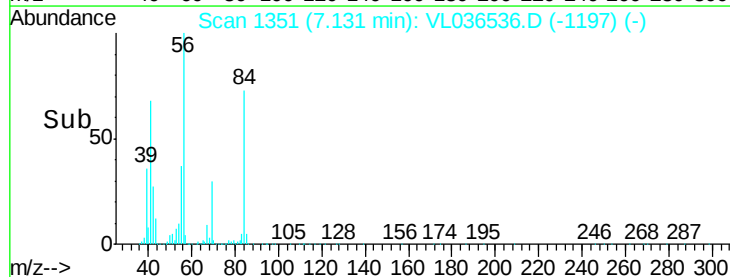
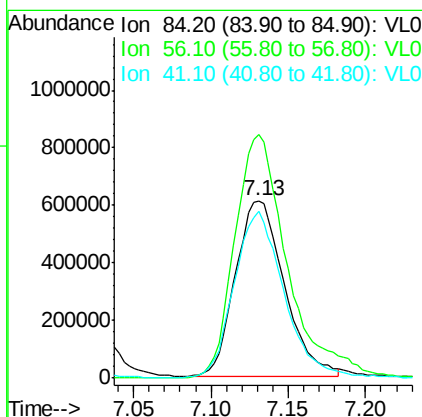
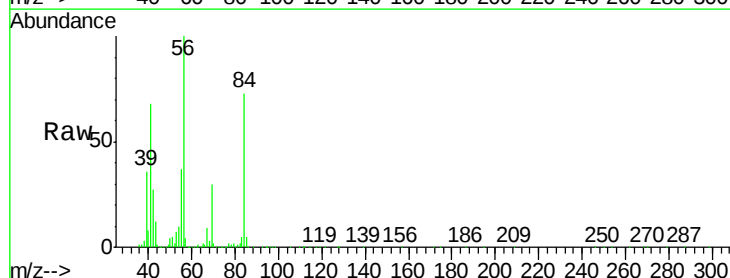
Manual Integrations
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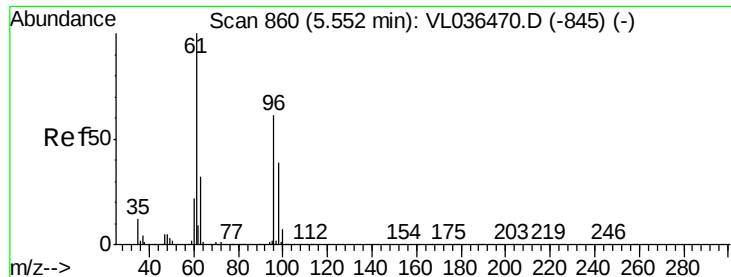
MMDadoda
3/30/2021 7:43:58 PM



#30
Cyclohexane
Concen: 9.359 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion: 84 Resp: 1346247
Ion Ratio Lower Upper
84 100
56 150.2 114.6 171.8
41 96.7 75.3 112.9





#31

cis-1,2-Dichloroethene

Concen: 9.413 ppbv

RT: 5.55 min Scan# 859

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 61 Resp: 1614802

Ion Ratio Lower Upper

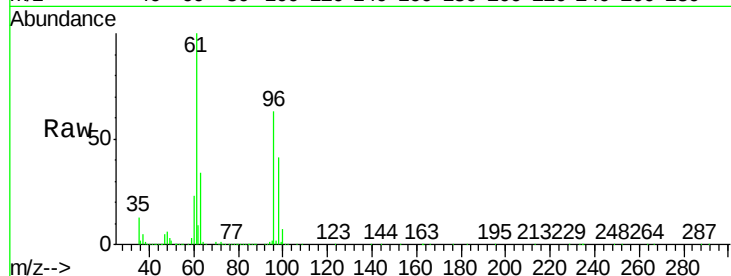
61 100

96 63.4 48.7 73.1

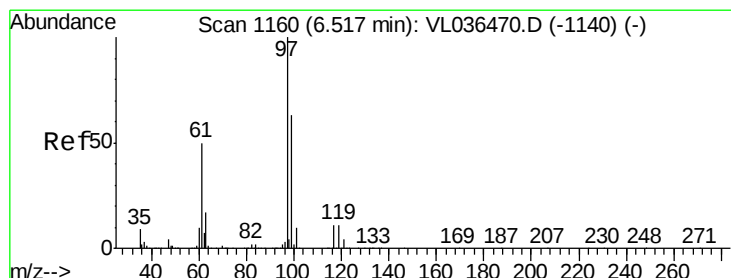
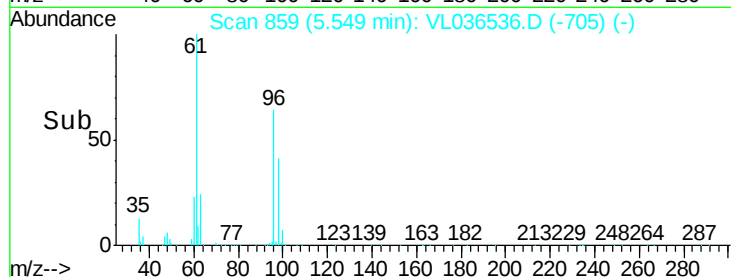
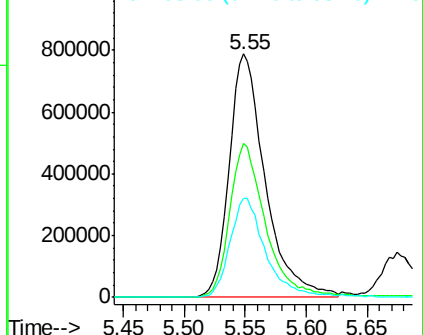
98 40.7 31.4 47.0

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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.206 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

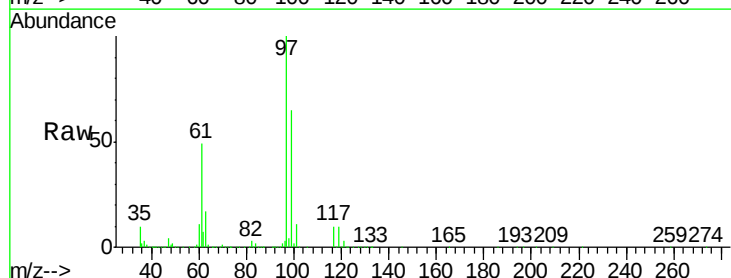
Tgt Ion: 97 Resp: 2631641

Ion Ratio Lower Upper

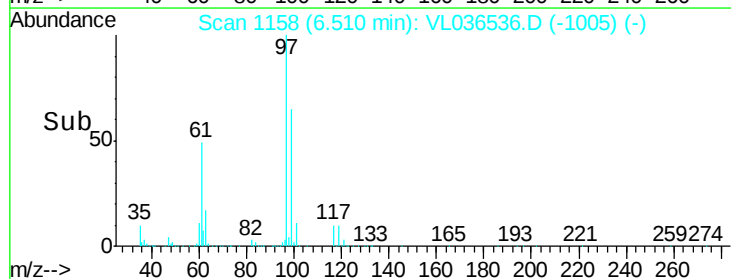
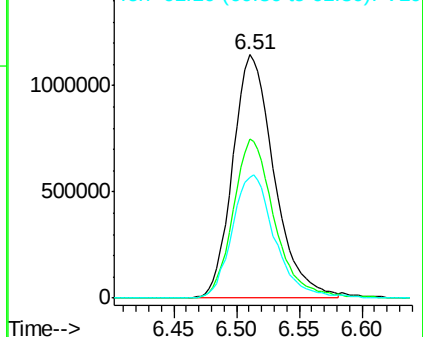
97 100

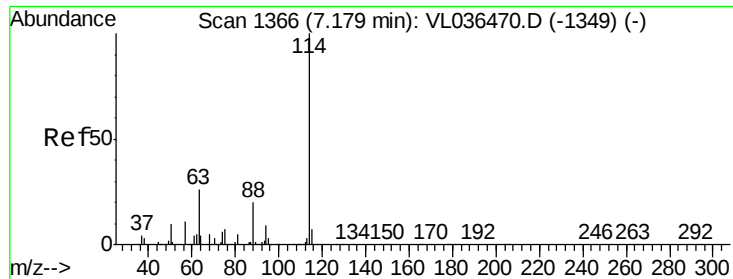
99 65.2 51.4 77.0

61 52.2 40.6 60.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





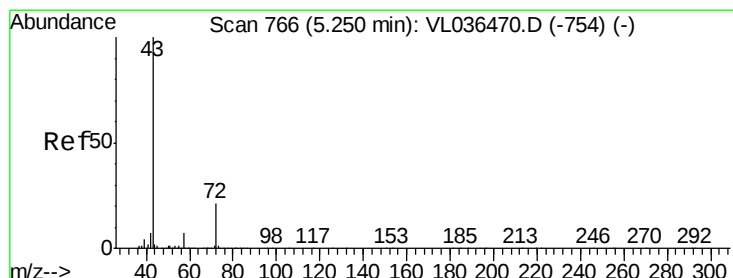
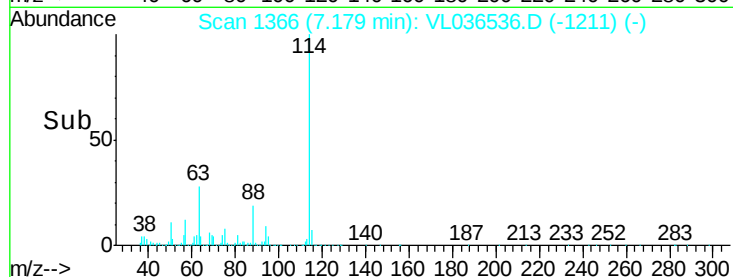
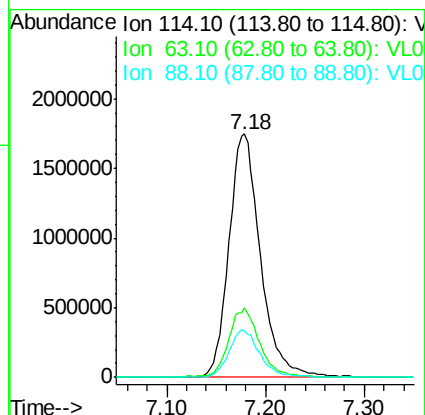
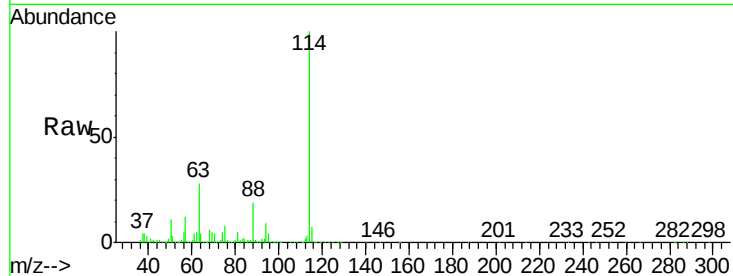
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.4	33.6
88	19.2	15.4	23.0

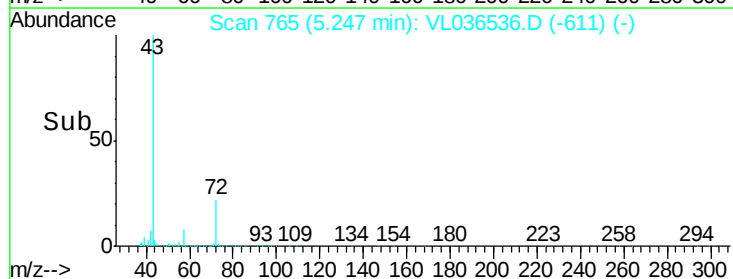
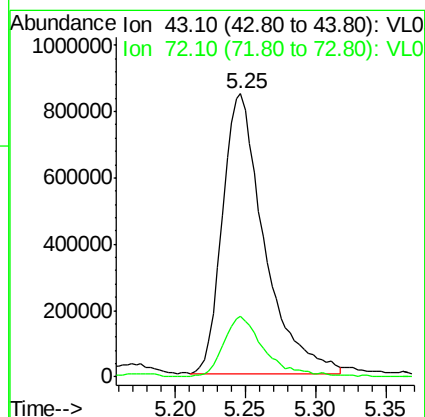
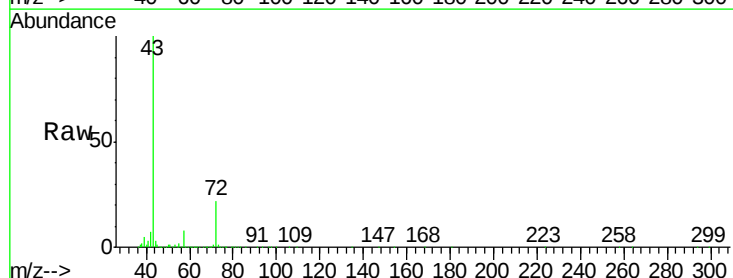
Manual Integrations
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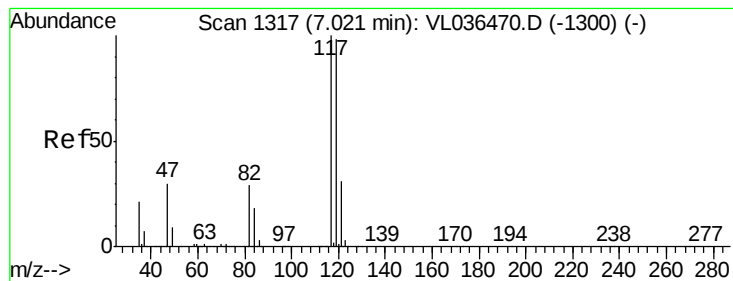
MMDadoda
 3/30/2021 7:43:58 PM



#34
 2-Butanone
 Concen: 9.192 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.0	25.6





#35

Carbon Tetrachloride

Concen: 9.304 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2776878

Ion Ratio Lower Upper

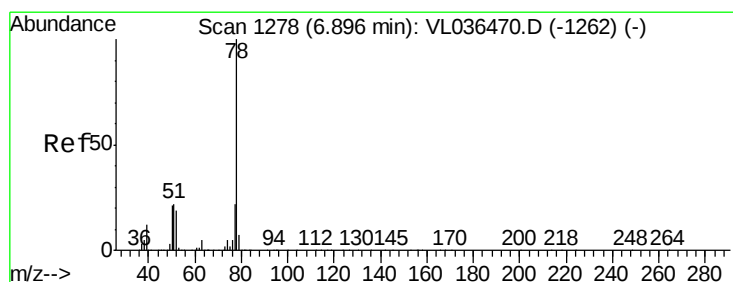
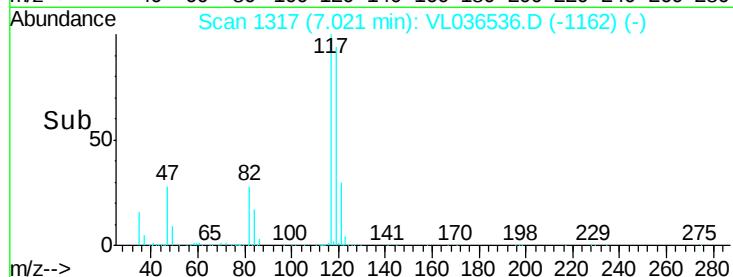
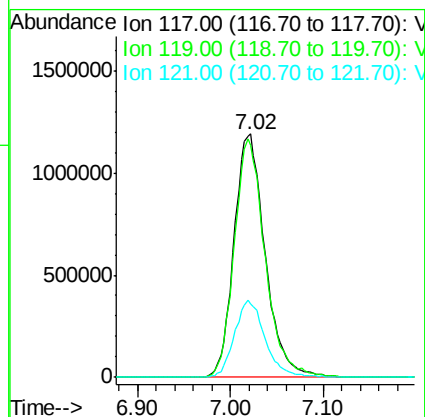
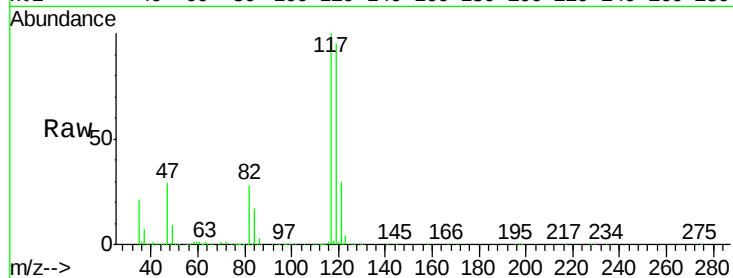
117 100

119 95.2 78.2 117.2

121 30.3 24.5 36.7

Manual Integrations
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#36

Benzene

Concen: 9.433 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

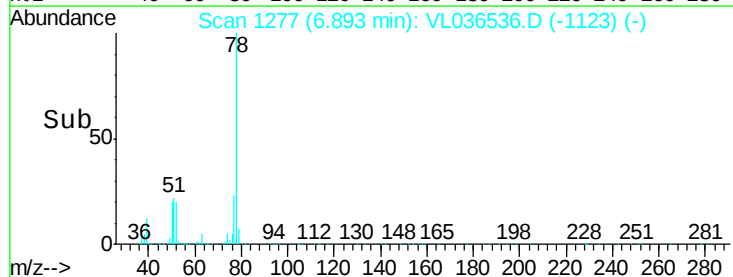
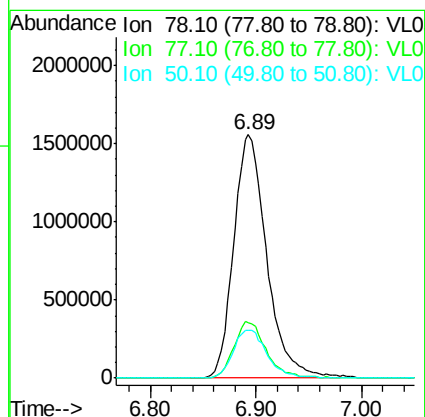
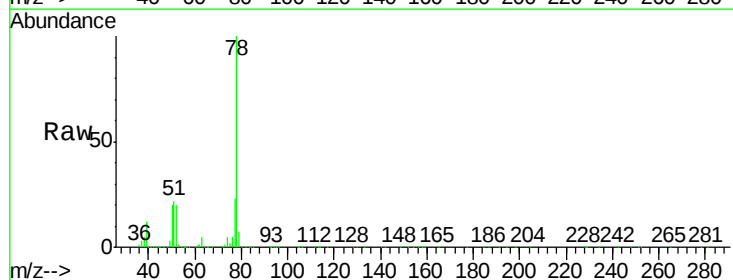
Tgt Ion: 78 Resp: 3380361

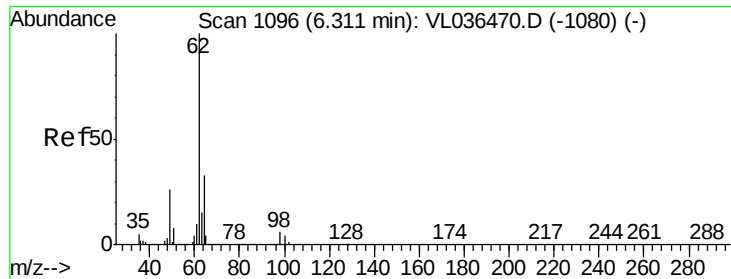
Ion Ratio Lower Upper

78 100

77 23.0 18.0 27.0

50 19.8 16.5 24.7





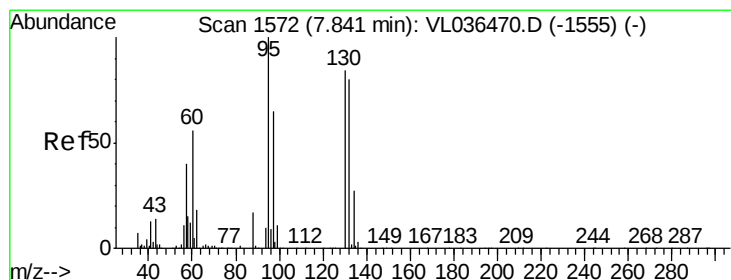
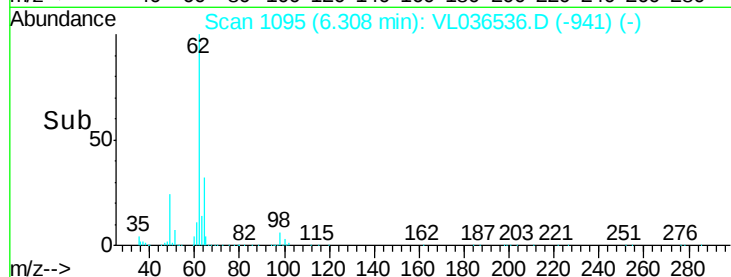
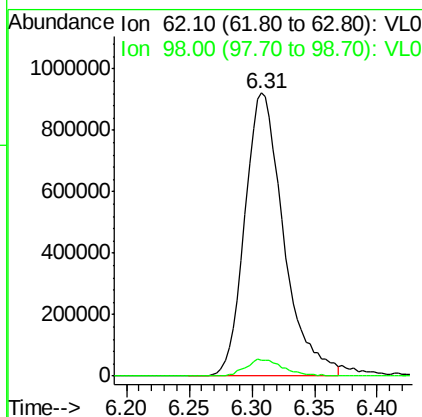
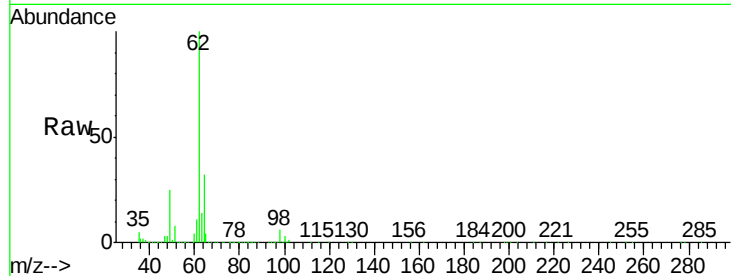
#37
 1,2-Dichloroethane
 Concen: 9.423 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.9	7.3

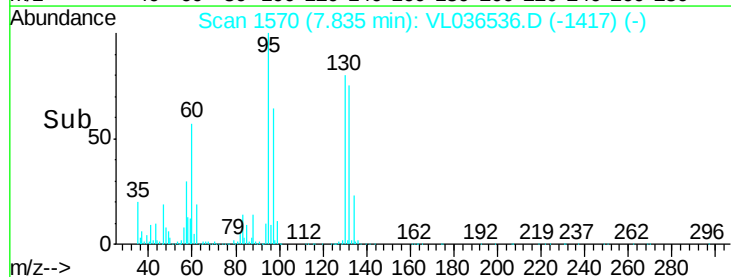
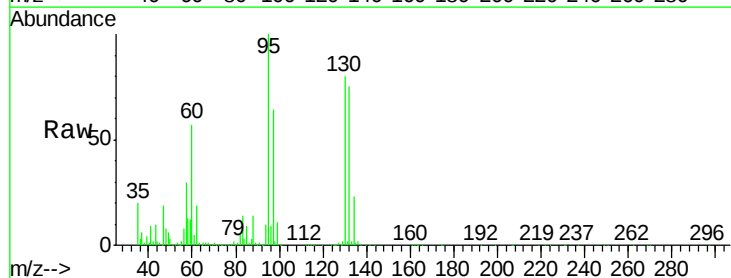
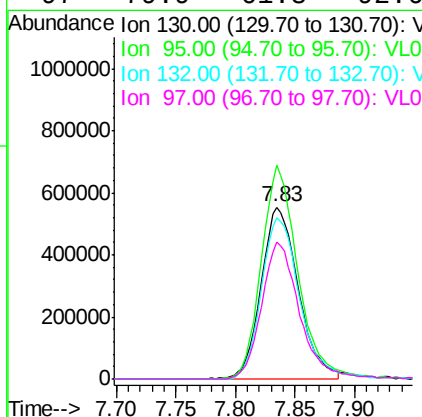
Manual Integrations
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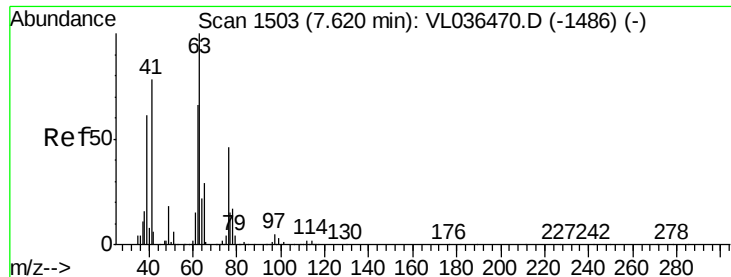
MMDadoda
 3/30/2021 7:43:58 PM



#38
 Trichloroethene
 Concen: 8.620 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	124.4	95.7	143.5
132	93.9	76.2	114.4
97	79.9	61.8	92.6





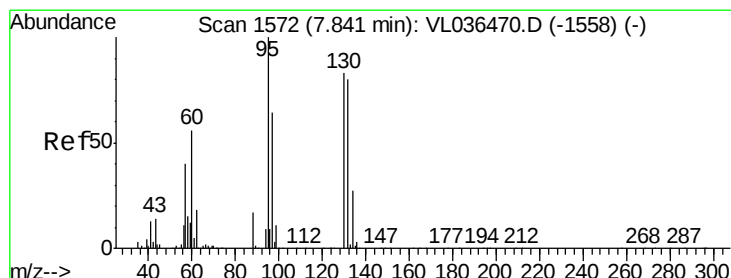
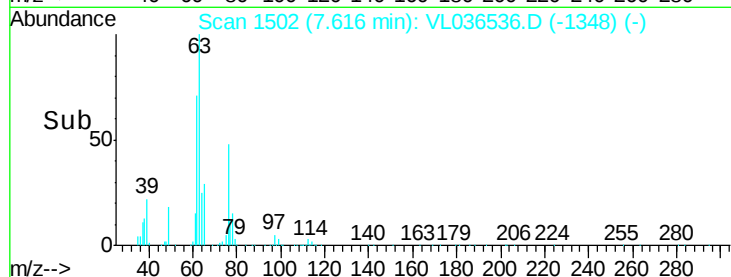
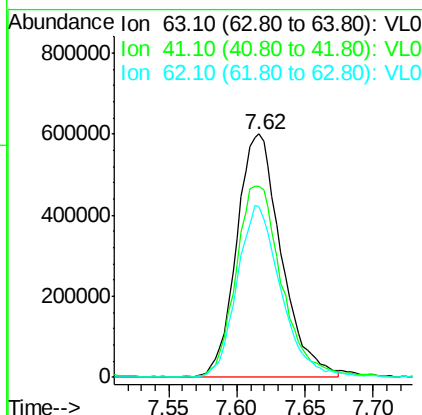
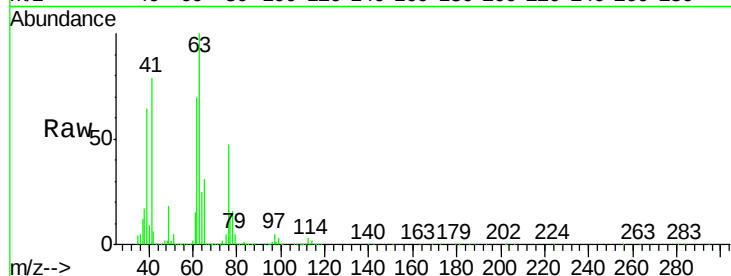
#39
 1,2-Dichloropropane
 Concen: 9.322 ppbv
 RT: 7.62 min Scan# 1502
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 63 Resp: 1355192
 Ion Ratio Lower Upper
 63 100
 41 78.3 62.4 93.6
 62 70.4 52.8 79.2

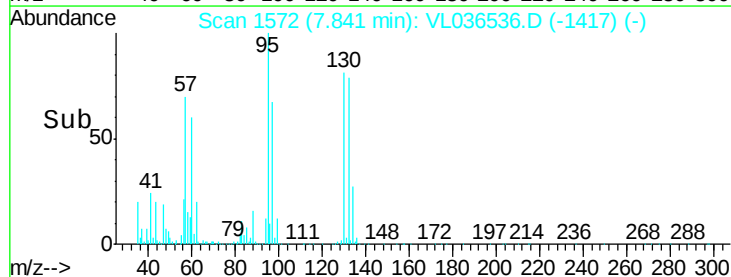
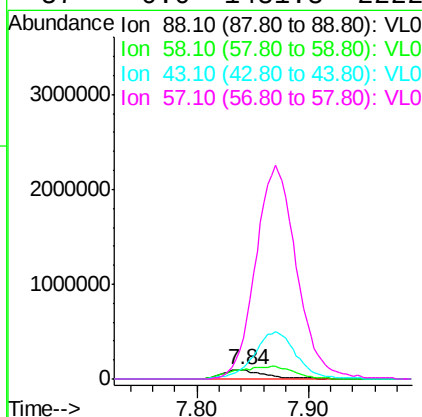
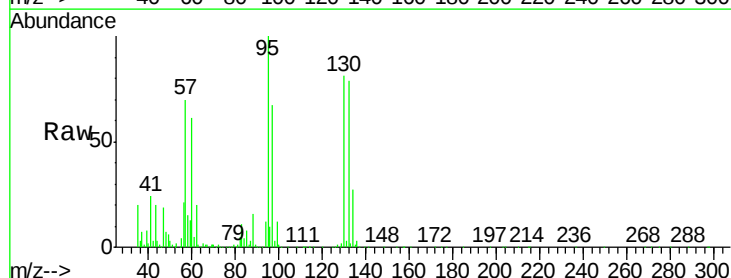
Manual Integrations
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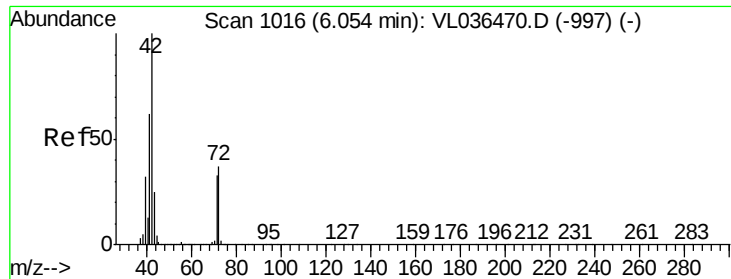
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 3/30/2021 7:43:58 PM



#40
 1,4-Dioxane
 Concen: 7.926 ppbv m
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion: 88 Resp: 268170
 Ion Ratio Lower Upper
 88 100
 58 0.0 134.1 201.1#
 43 0.0 346.6 520.0#
 57 0.0 1481.8 2222.8#





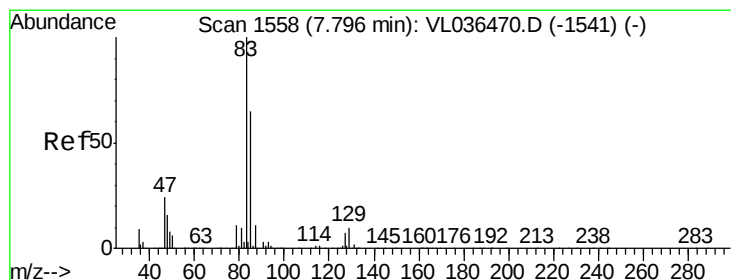
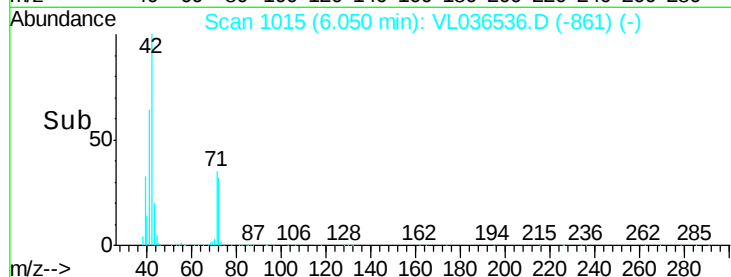
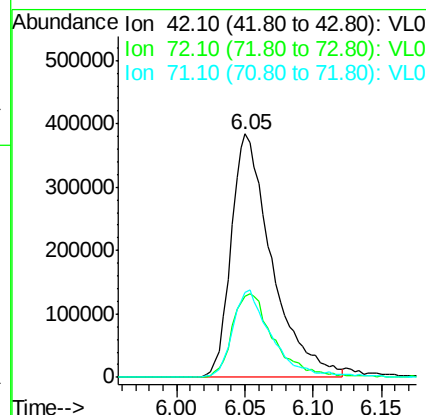
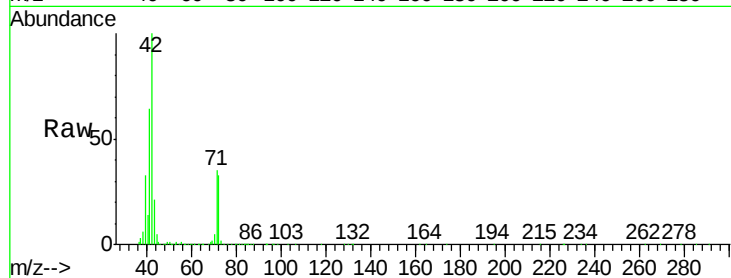
#41
Tetrahydrofuran
Concen: 9.091 ppbv
RT: 6.05 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.9	27.6	41.4
71	35.0	27.0	40.4

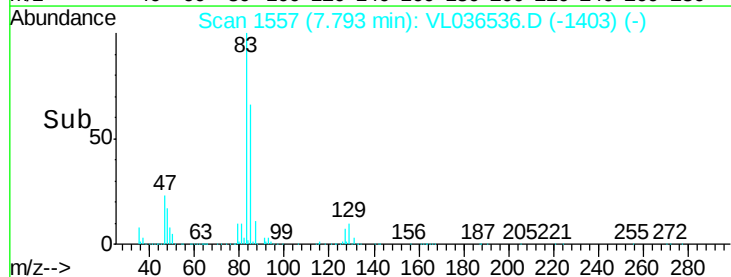
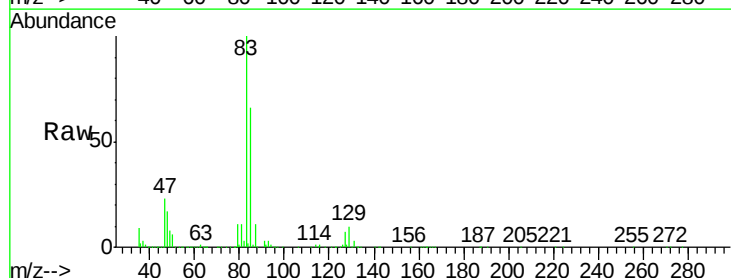
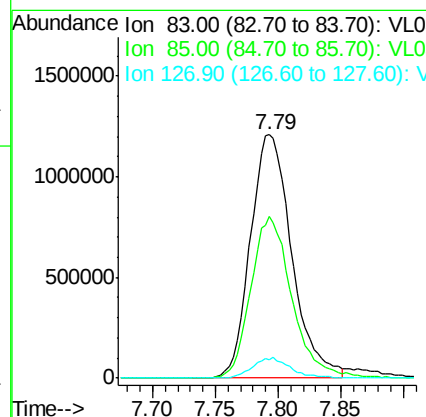
Manual Integrations
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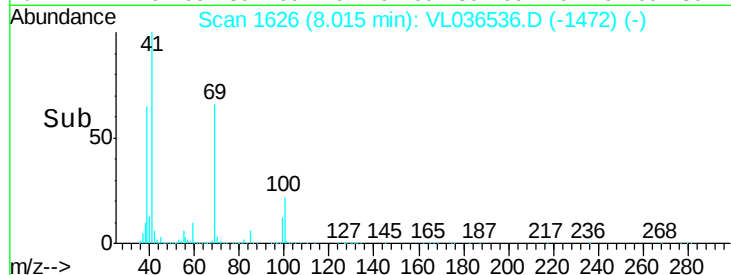
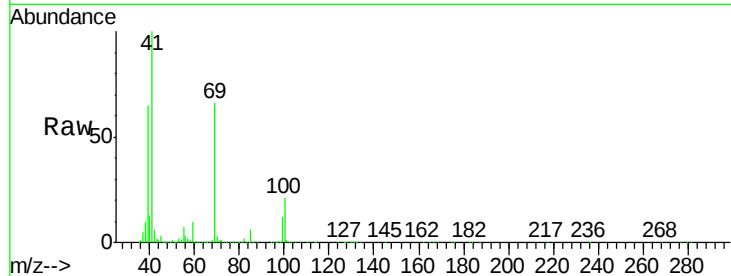
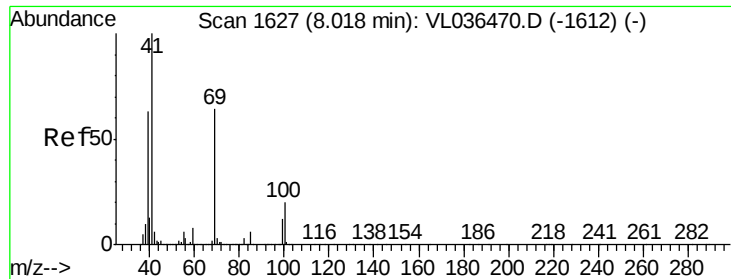
MMDadoda
3/30/2021 7:43:58 PM



#42
Bromodichloromethane
Concen: 9.668 ppbv
RT: 7.79 min Scan# 1557
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.8	77.6
127	7.5	5.8	8.8





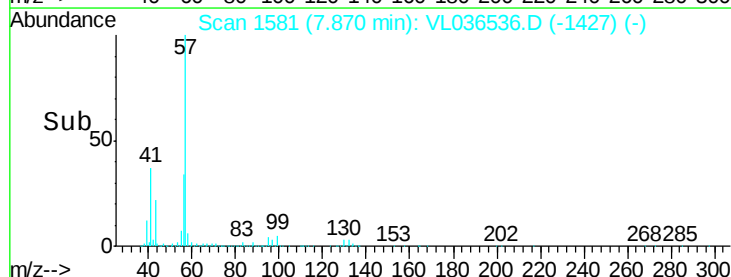
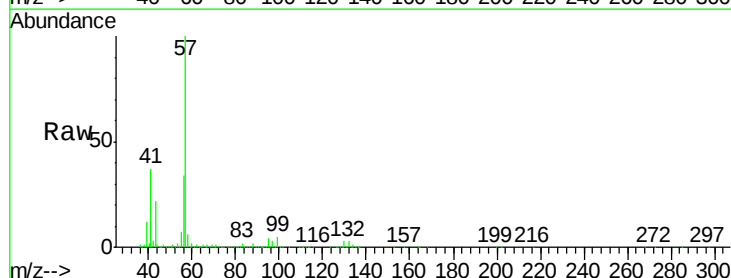
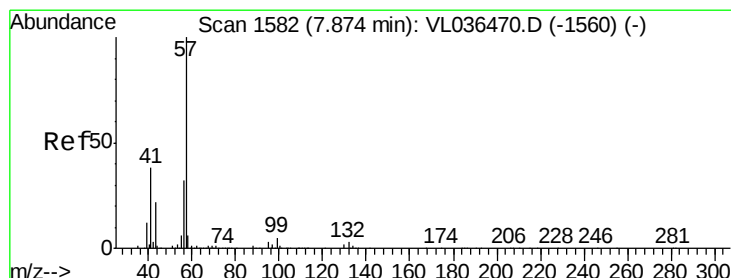
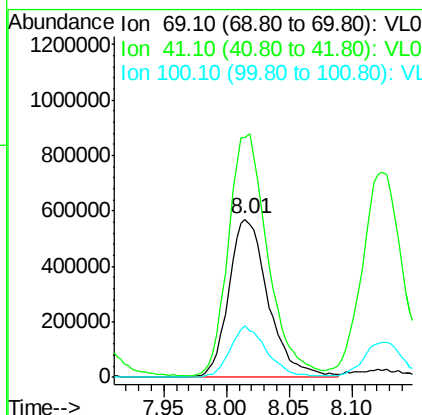
#43
Methvl Methacrylate
Concen: 10.344 ppbv
RT: 8.01 min Scan# 1626
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tot Ion: 69 Resp: 1244740
Ion Ratio Lower Upper
69 100
41 154.2 126.8 190.2
100 30.7 24.9 37.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

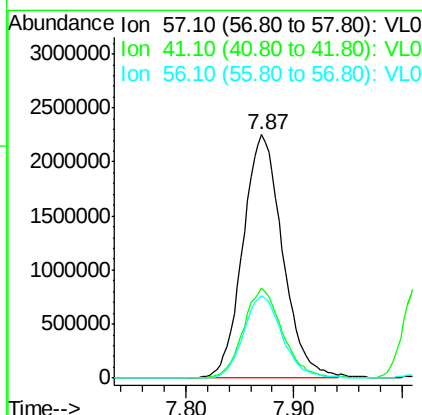
Manual Integrations
APPROVED

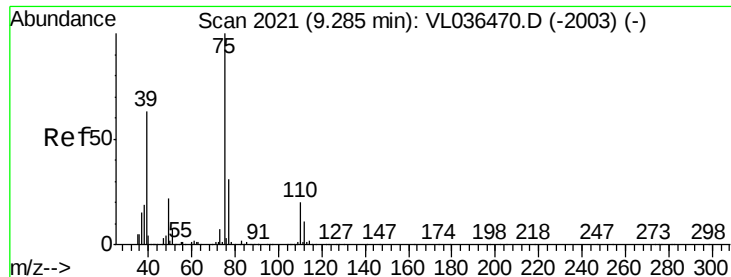
MMDadoda
3/30/2021 7:43:58 PM



#44
2,2,4-Trimethylpentane
Concen: 9.126 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion: 57 Resp: 5755641
Ion Ratio Lower Upper
57 100
41 36.2 28.8 43.2
56 33.1 26.1 39.1





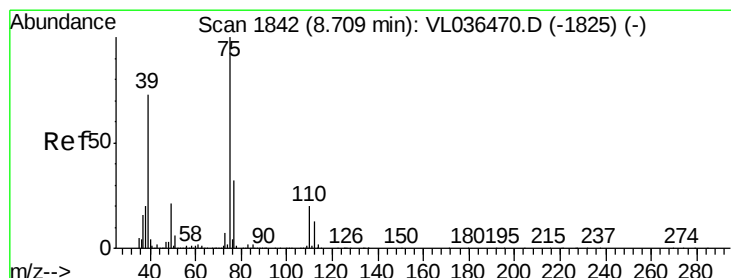
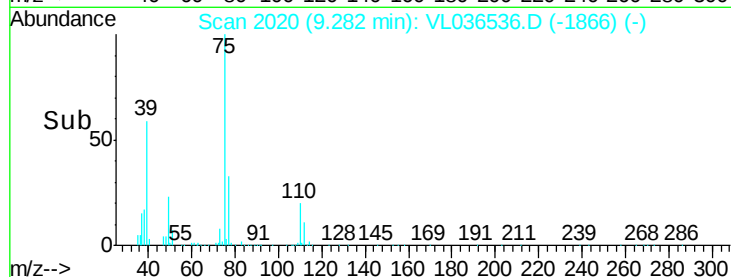
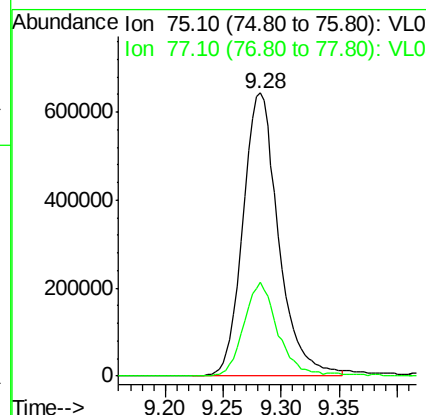
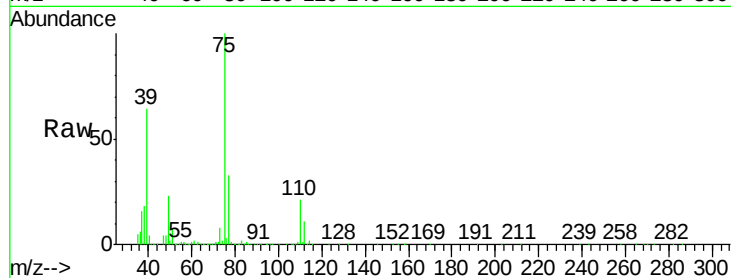
#45
t-1,3-Dichloropropene
Concen: 9.993 ppbv
RT: 9.28 min Scan# 2020
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1373189
Ion Ratio Lower Upper
75 100
77 33.3 25.1 37.7

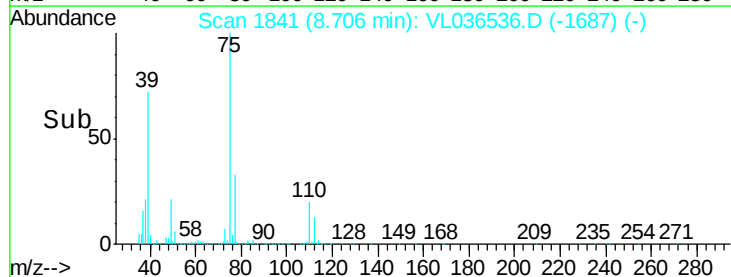
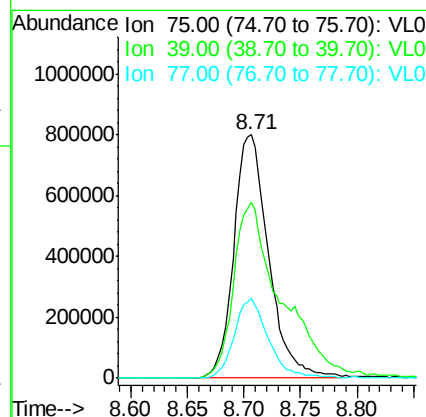
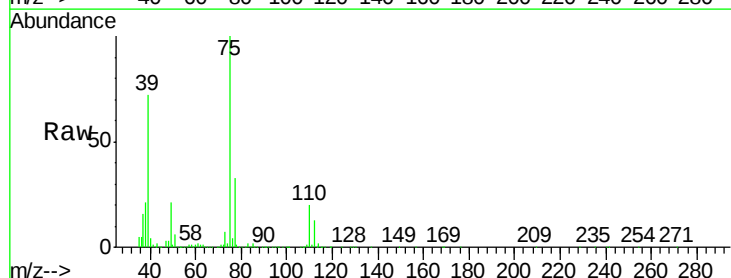
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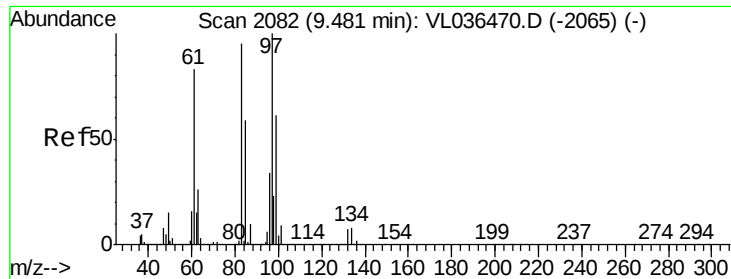
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#46
cis-1,3-Dichloropropene
Concen: 9.761 ppbv
RT: 8.71 min Scan# 1841
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion: 75 Resp: 1714542
Ion Ratio Lower Upper
75 100
39 72.2 58.2 87.2
77 32.5 25.2 37.8





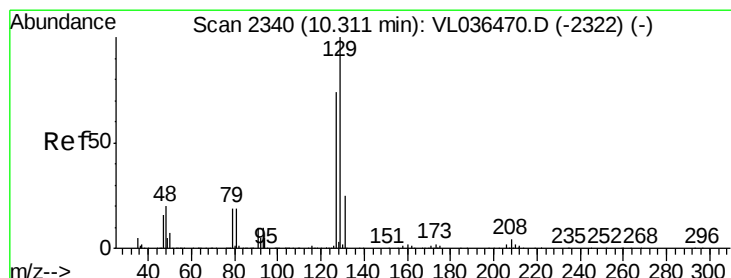
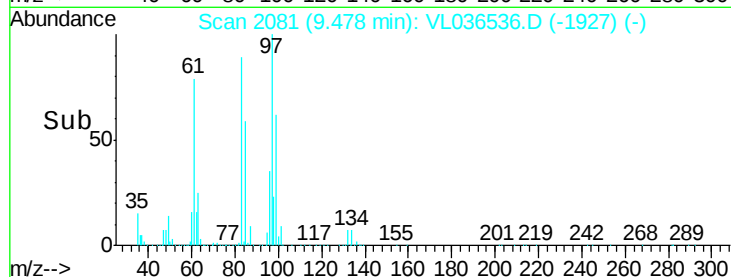
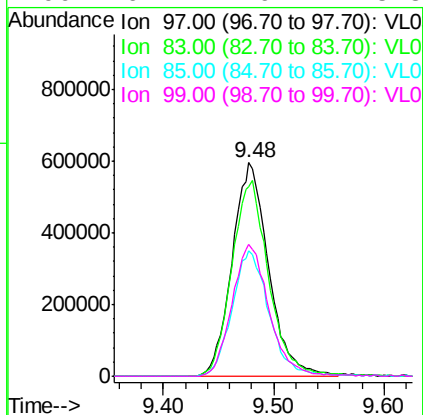
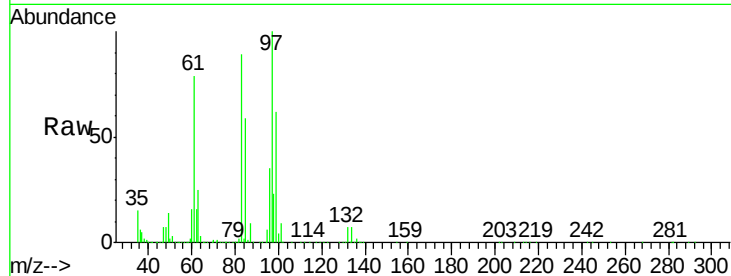
#47
1,1,2-Trichloroethane
Concen: 9.248 ppbv
RT: 9.48 min Scan# 2081
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 97 Resp: 1361779
Ion Ratio Lower Upper
97 100
83 88.5 75.8 113.8
85 58.6 47.1 70.7
99 61.7 49.2 73.8

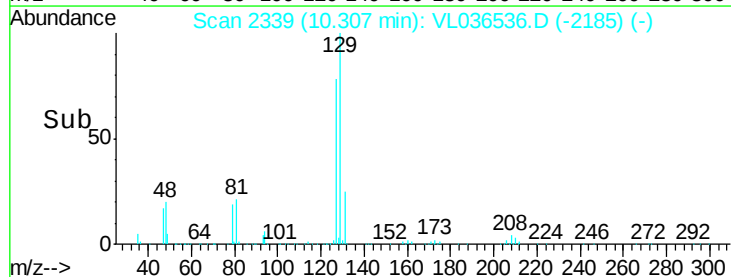
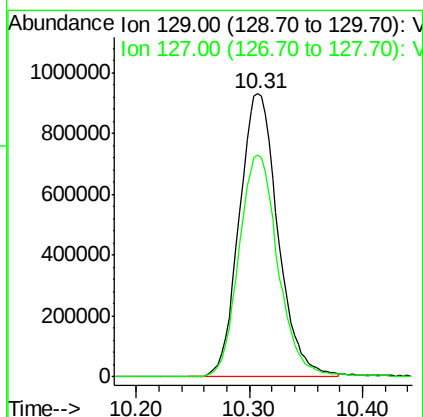
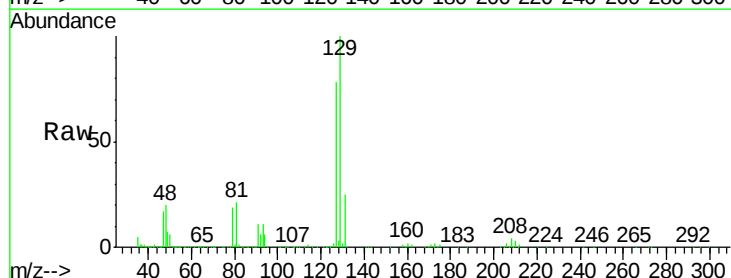
Manual Integrations
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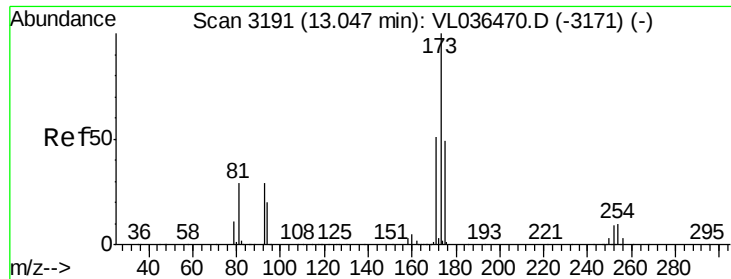
MMDadoda
3/30/2021 7:43:58 PM



#48
Dibromochloromethane
Concen: 9.863 ppbv
RT: 10.31 min Scan# 2339
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion: 129 Resp: 2213739
Ion Ratio Lower Upper
129 100
127 79.5 39.6 118.8





#49

Bromoform

Concen: 9.718 ppbv

RT: 13.04 min Scan# 3190

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1757590

Ion Ratio Lower Upper

173 100

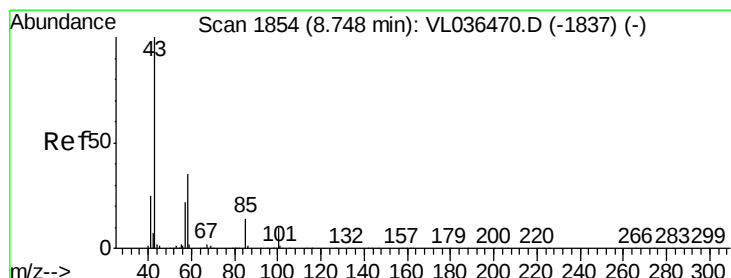
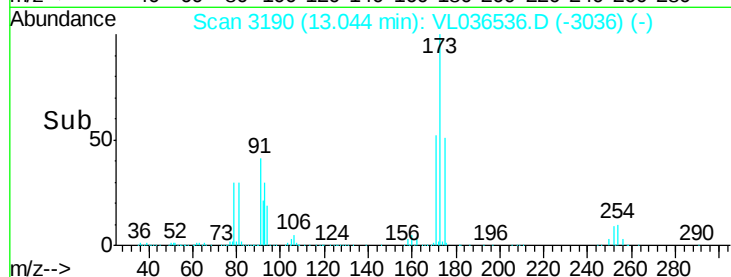
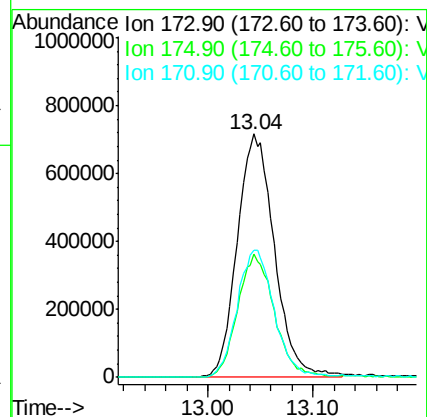
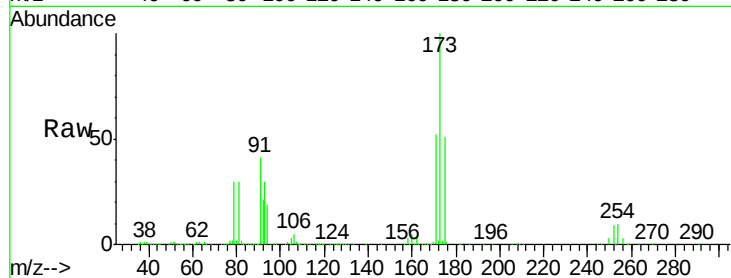
175 50.8 39.6 59.4

171 53.2 41.4 62.0

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#50

4-Methyl-2-Pentanone

Concen: 10.000 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VL036536.D

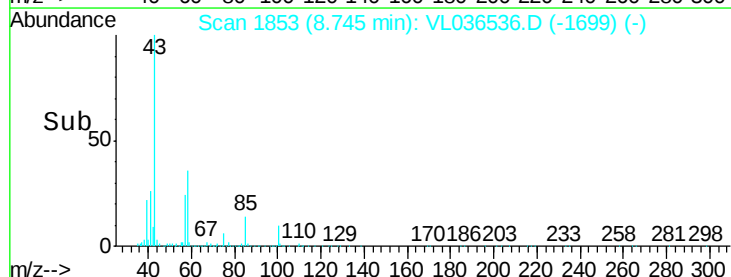
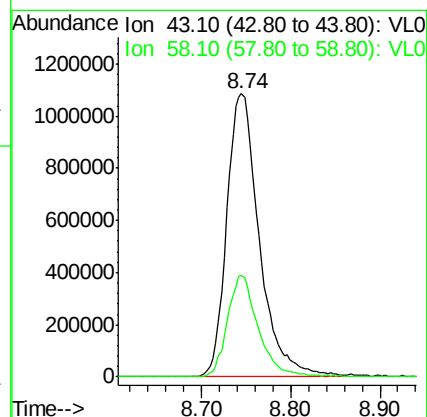
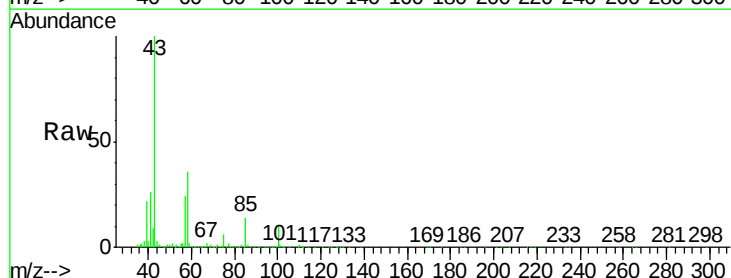
Acq: 29 Mar 2021 11:04

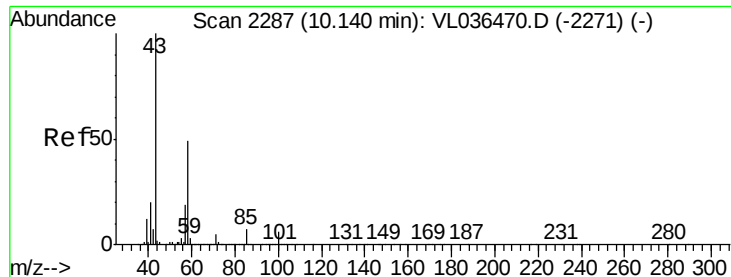
Tgt Ion: 43 Resp: 2744538

Ion Ratio Lower Upper

43 100

58 34.3 28.2 42.2





#51

2-Hexanone

Concen: 10.548 ppbv

RT: 10.14 min Scan# 2286

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1460871

Ion Ratio Lower Upper

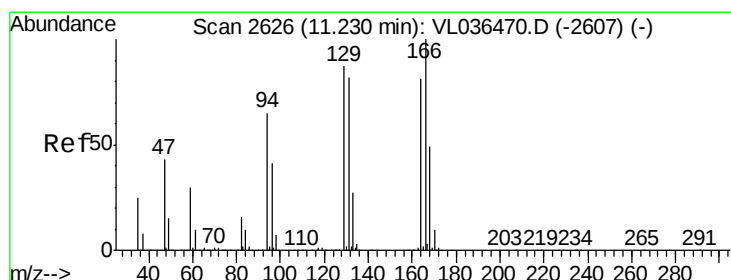
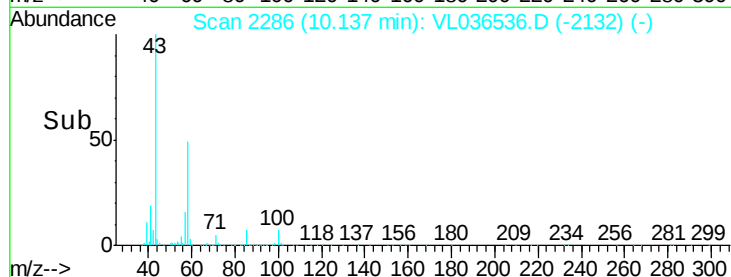
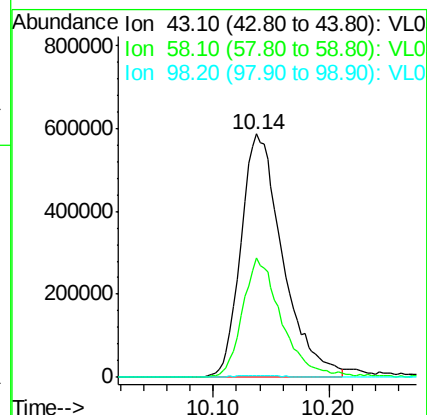
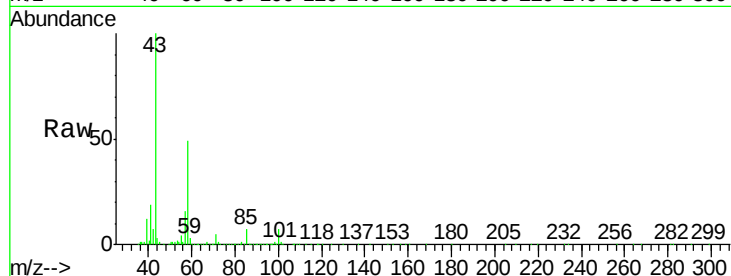
43 100

58 47.1 37.7 56.5

98 1.0 0.2 0.2#

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#52

Tetrachloroethene

Concen: 8.351 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Tgt Ion: 164 Resp: 1102015

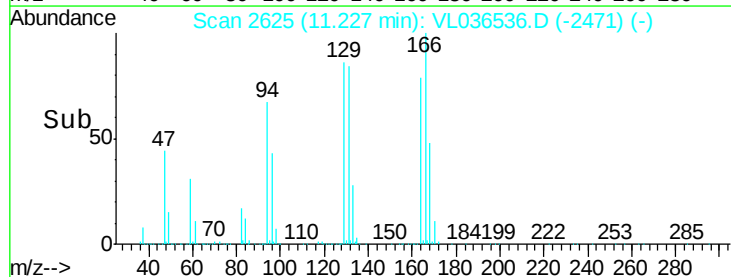
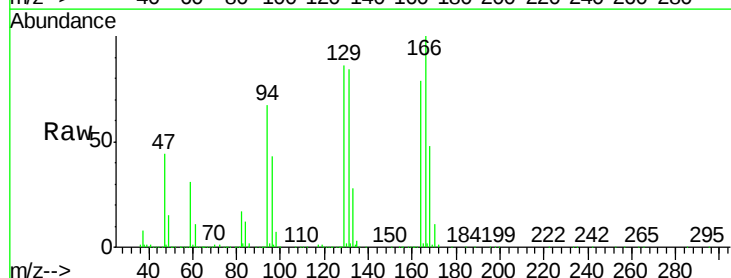
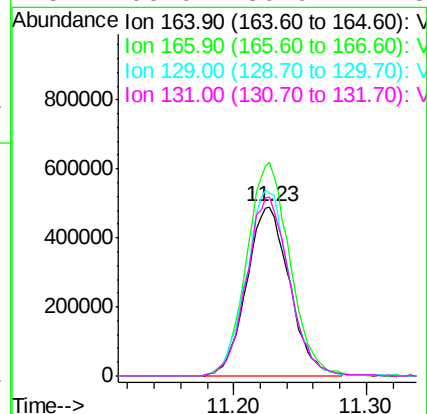
Ion Ratio Lower Upper

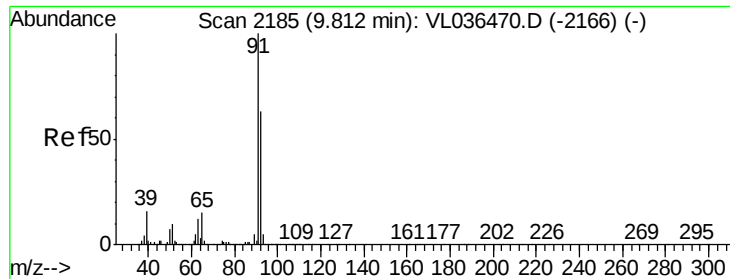
164 100

166 126.1 98.3 147.5

129 107.8 85.8 128.8

131 106.0 80.9 121.3





#53

Toluene

Concen: 9.789 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3735697

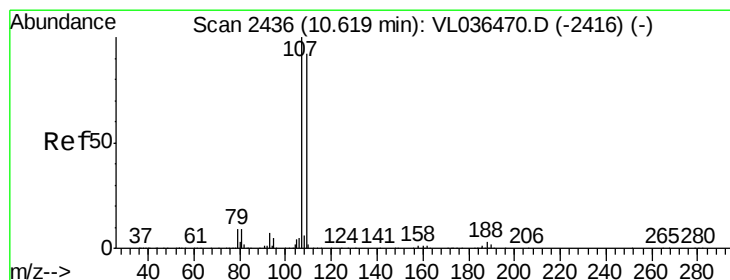
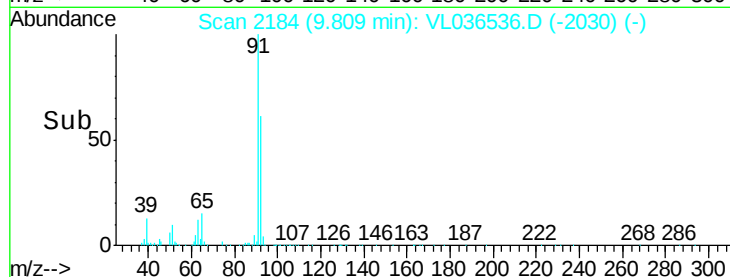
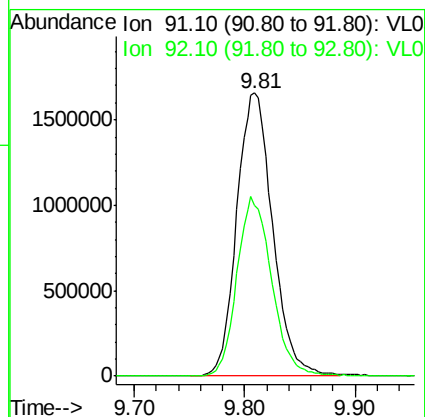
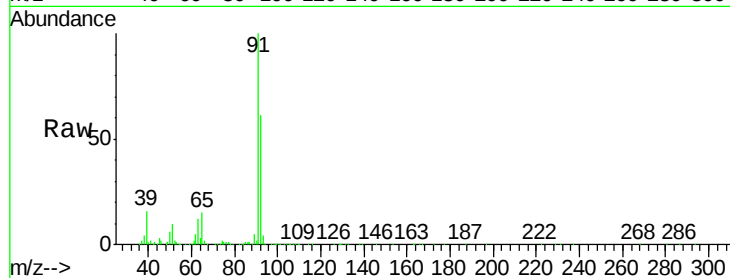
Ion Ratio Lower Upper

91 100

92 61.9 48.8 73.2

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#54

1,2-Dibromoethane

Concen: 9.198 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL036536.D

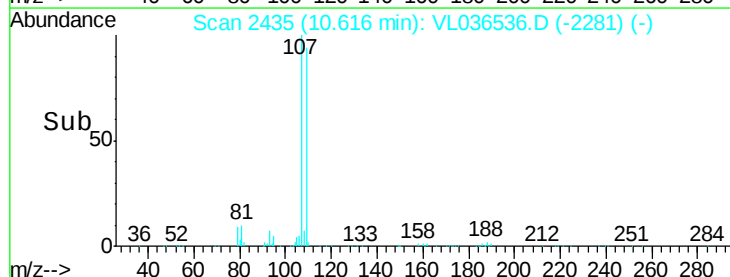
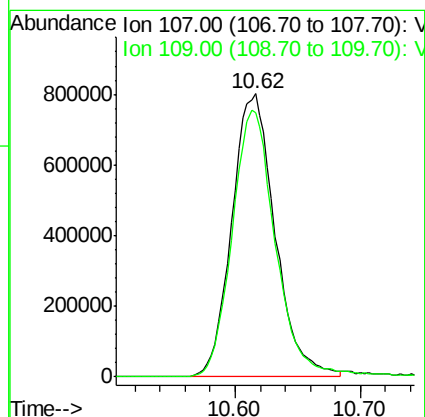
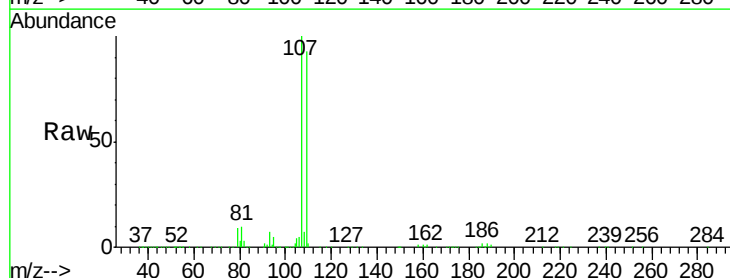
Acq: 29 Mar 2021 11:04

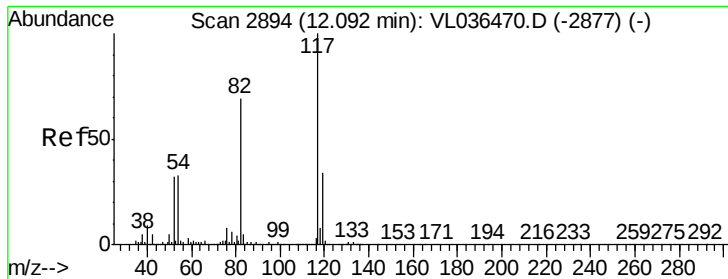
Tgt Ion: 107 Resp: 1912670

Ion Ratio Lower Upper

107 100

109 93.4 73.9 110.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

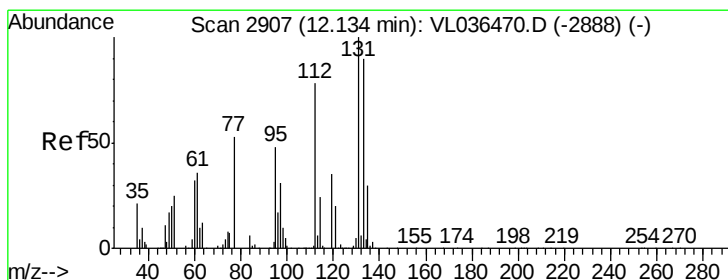
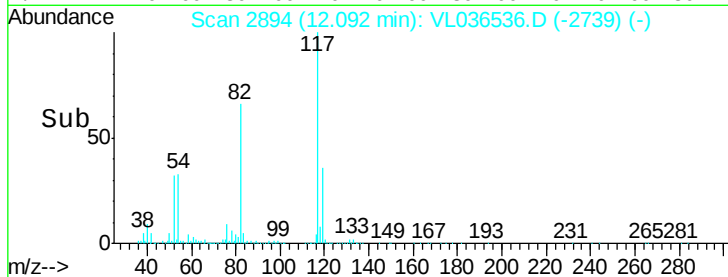
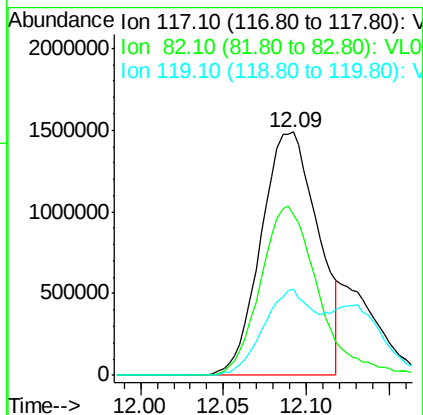
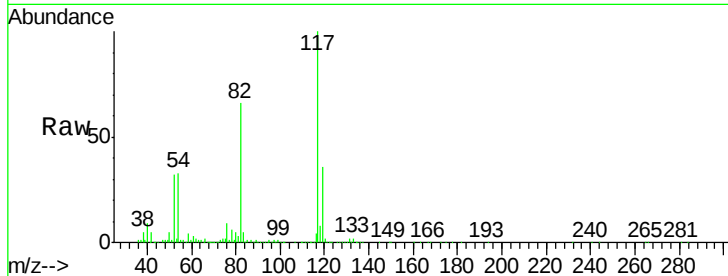
VSTDCCC010

Tot Ion:117 Resp: 3549357

Ion	Ratio	Lower	Upper
117	100		
82	71.1	57.4	86.0
119	33.0	47.4	71.0#

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#56

1,1,1,2-Tetrachloroethane

Concen: 9.400 ppbv

RT: 12.13 min Scan# 2905

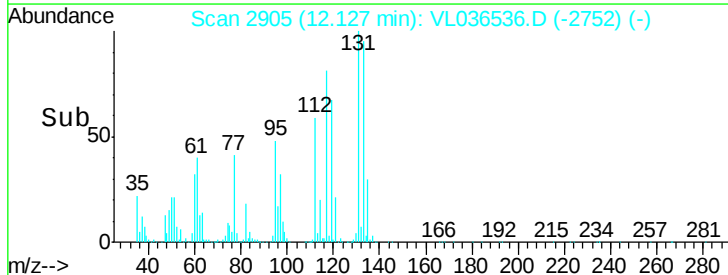
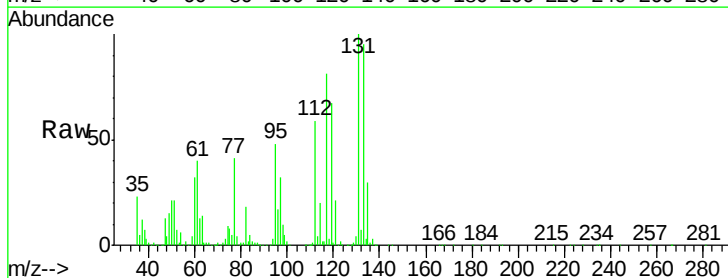
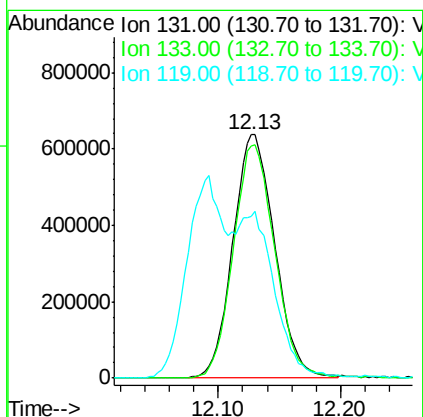
Delta R.T. -0.01 min

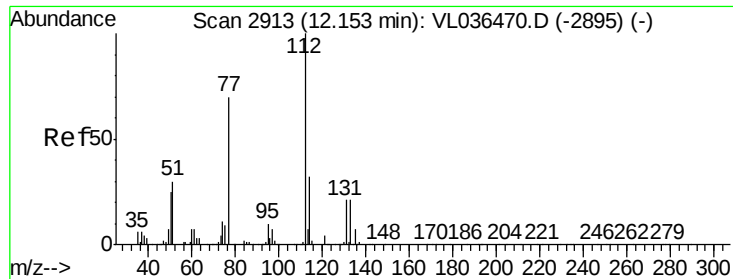
Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Tgt Ion:131 Resp: 1509035

Ion	Ratio	Lower	Upper
131	100		
133	95.7	75.8	113.6
119	140.0	48.7	73.1#





#57

Chlorobenzene

Concen: 8.804 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion: 112 Resp: 2658765

Ion Ratio Lower Upper

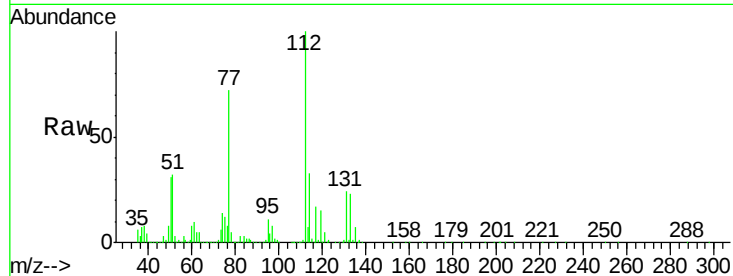
112 100

77 71.3 56.0 84.0

114 33.2 29.0 35.4

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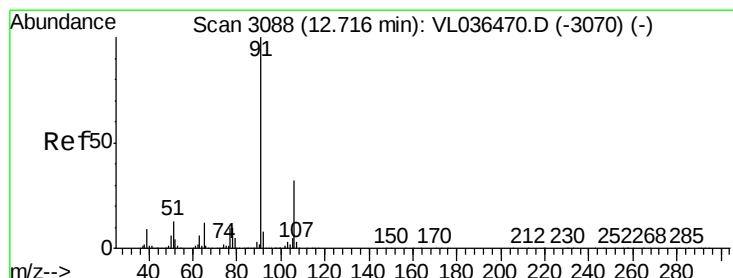
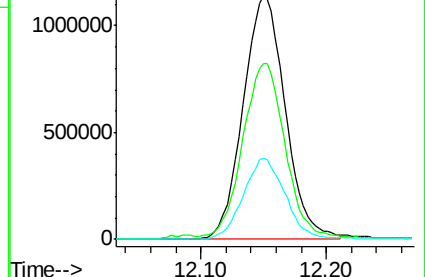
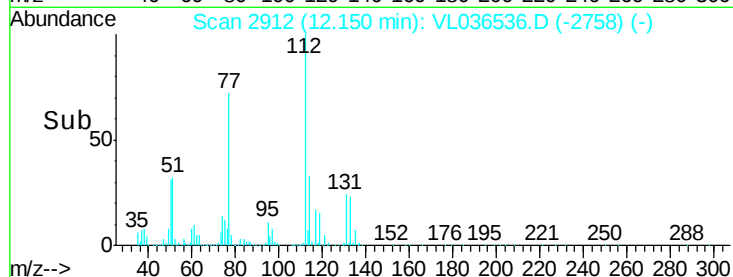
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.636 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL036536.D

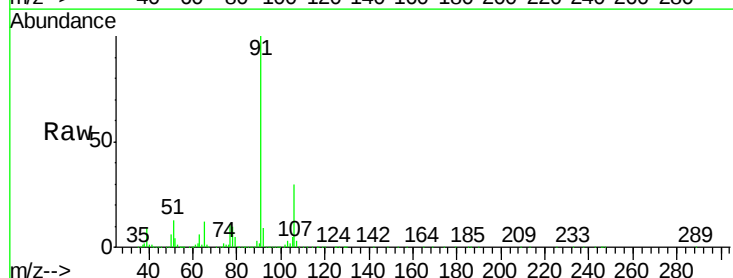
Acq: 29 Mar 2021 11:04

Tgt Ion: 91 Resp: 4975767

Ion Ratio Lower Upper

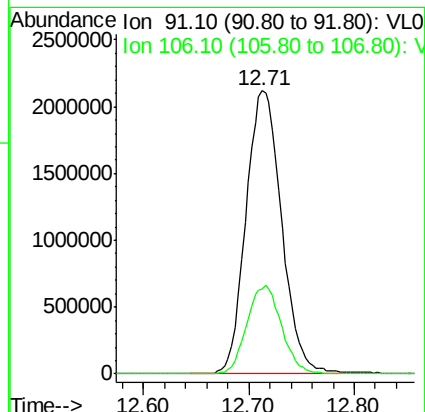
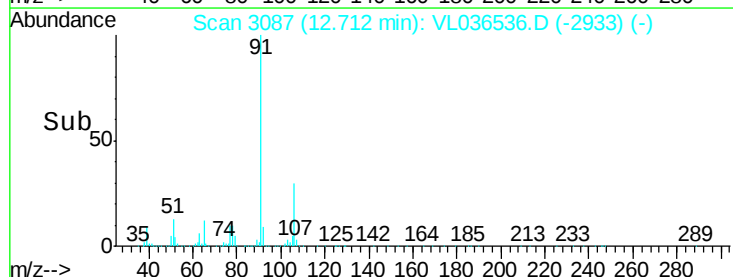
91 100

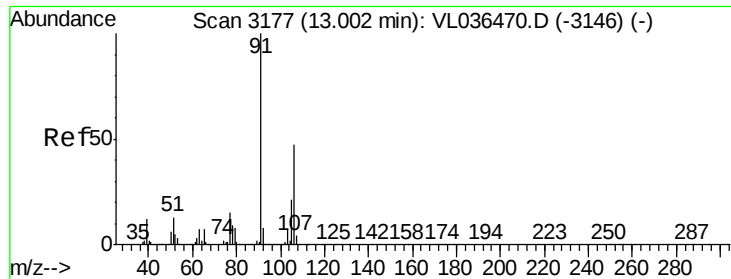
106 30.2 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





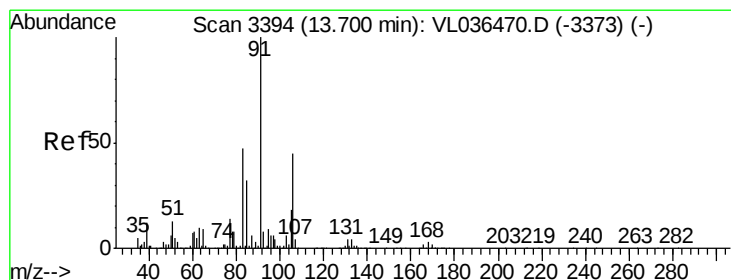
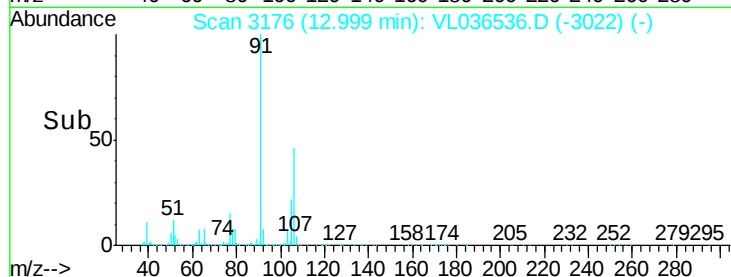
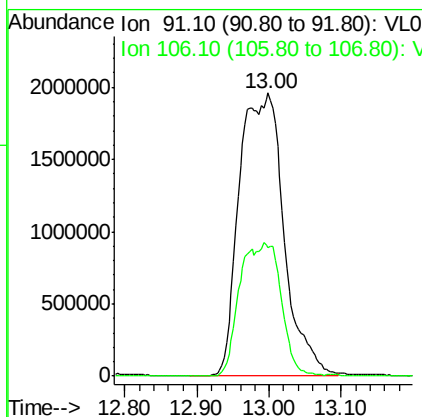
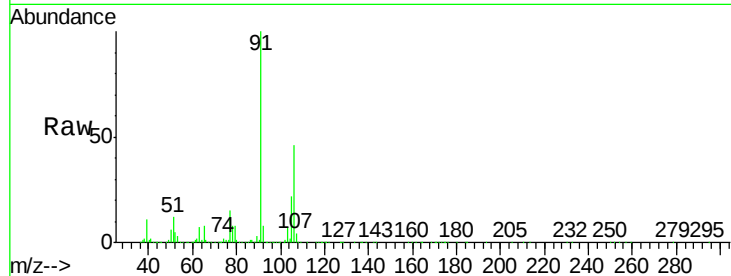
#59
m/p-Xylene
Concen: 18.691 ppbv m
RT: 13.00 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 8418230
Ion Ratio Lower Upper
91 100
106 43.7 35.3 52.9

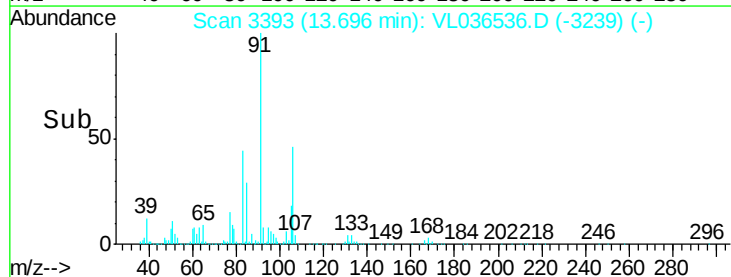
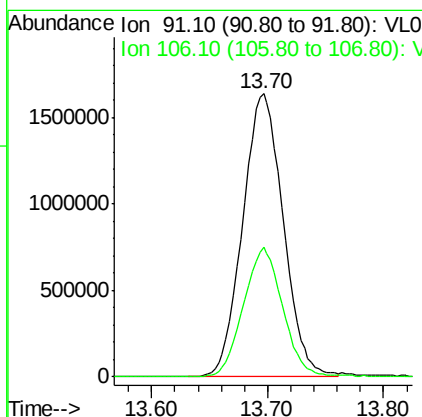
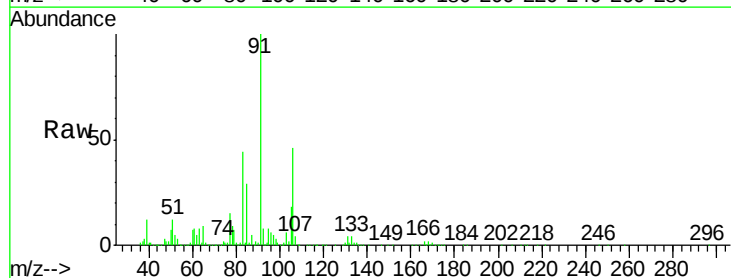
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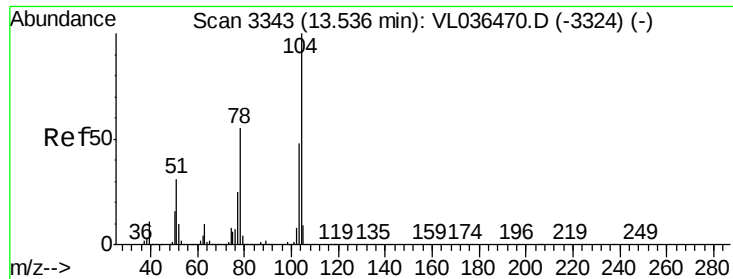
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#60
o-Xylene
Concen: 9.128 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion: 91 Resp: 3975267
Ion Ratio Lower Upper
91 100
106 44.5 22.3 66.9





#61

Stvrene

Concen: 10.549 ppbv

RT: 13.53 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2311207

Ion Ratio Lower Upper

104 100

78 55.2 43.8 65.8

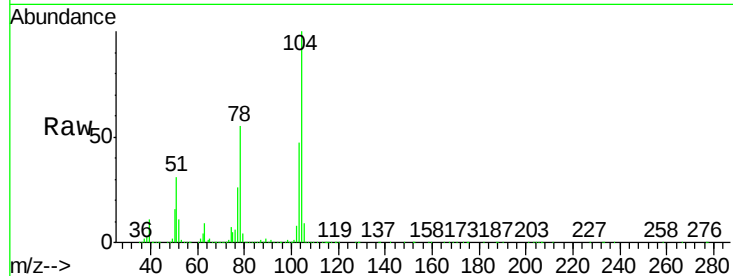
103 47.6 38.3 57.5

Manual Integrations

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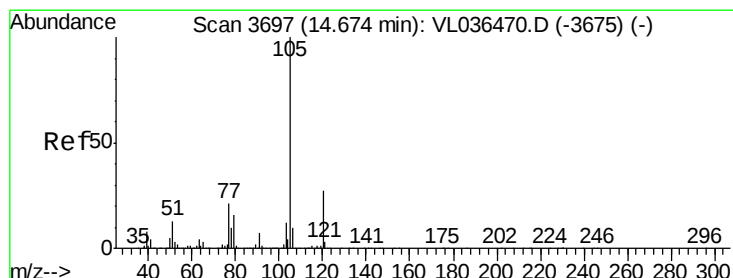
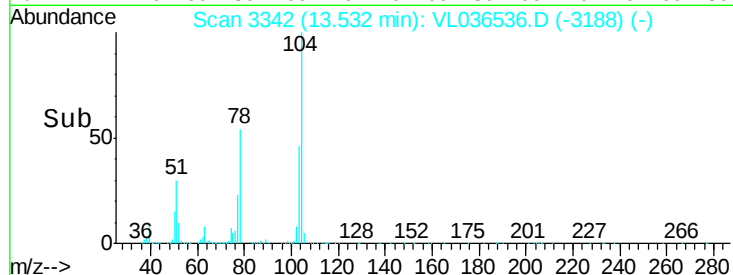
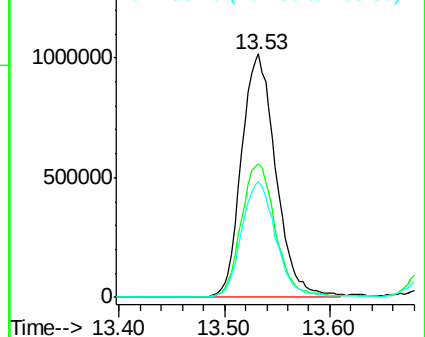
3/30/2021 7:43:58 PM



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: 9.022 ppbv

RT: 14.67 min Scan# 3695

Delta R.T. -0.01 min

Lab File: VL036536.D

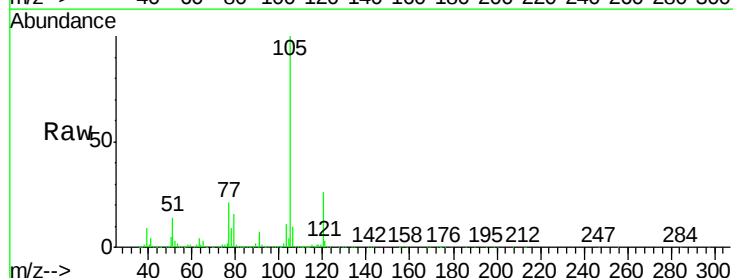
Acq: 29 Mar 2021 11:04

Tgt Ion:105 Resp: 5291038

Ion Ratio Lower Upper

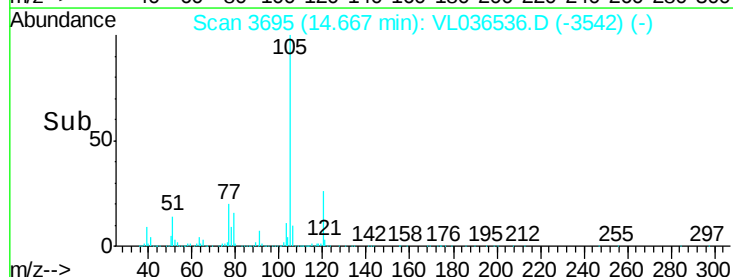
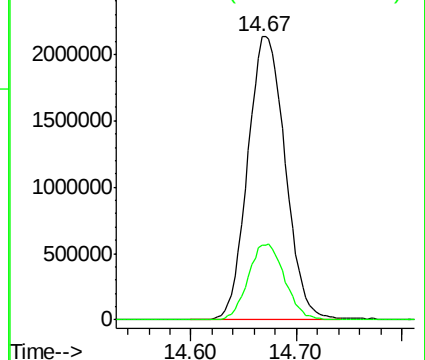
105 100

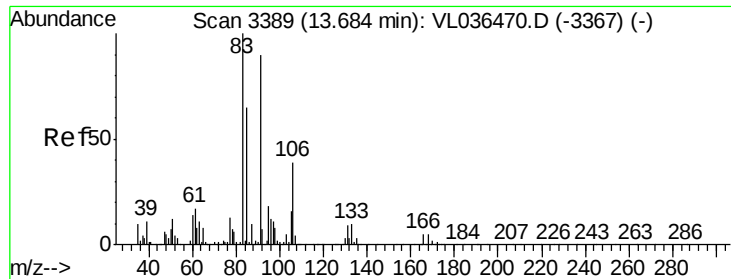
120 26.2 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





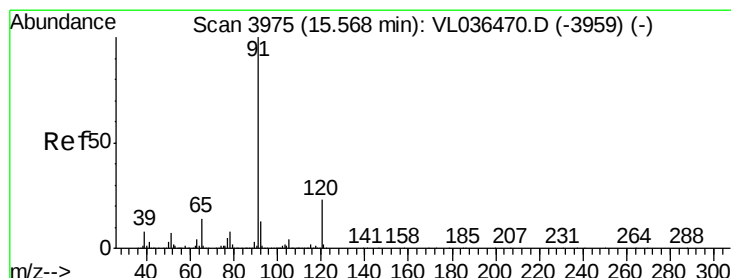
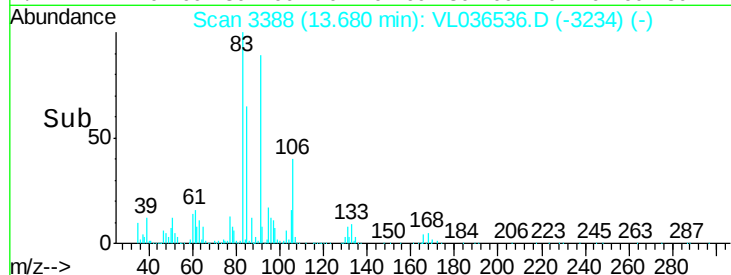
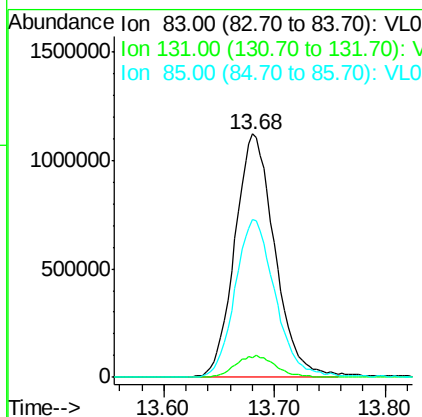
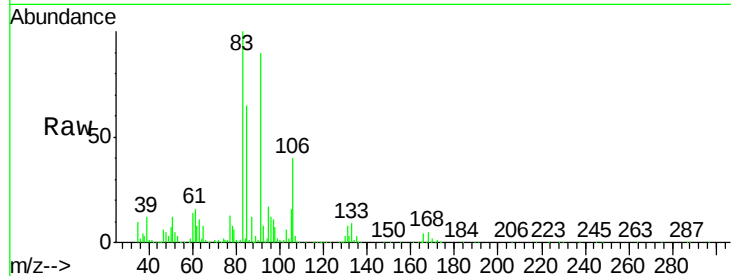
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.447 ppbv
 RT: 13.68 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.7	14.0
85	65.9	33.1	99.3

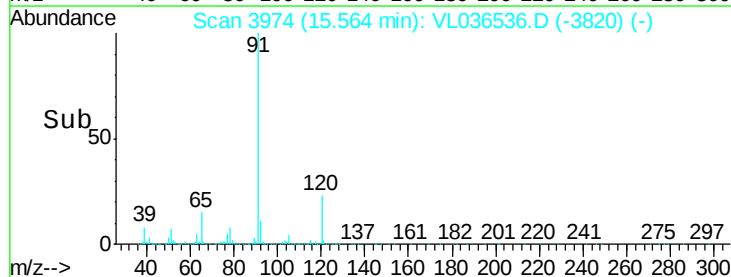
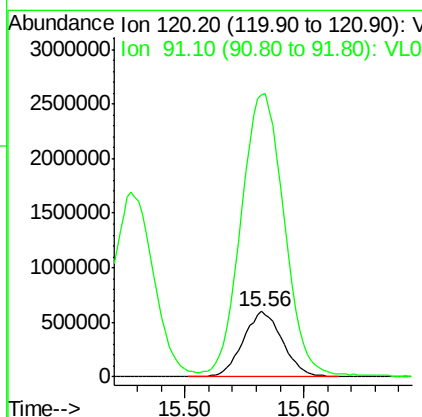
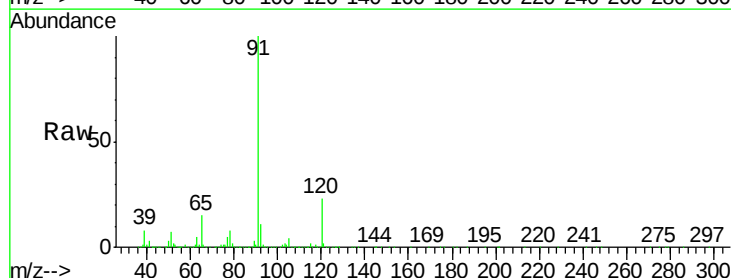
Manual Integrations
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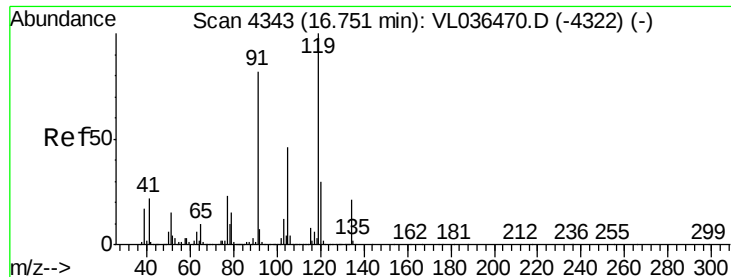
MMDadoda
 3/30/2021 7:43:58 PM



#64
 n-propylbenzene
 Concen: 9.619 ppbv
 RT: 15.56 min Scan# 3974
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion	Ratio	Lower	Upper
120	100		
91	476.5	377.4	566.2





#65

tert-Butylbenzene

Concen: 8.963 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4558181

Ion Ratio Lower Upper

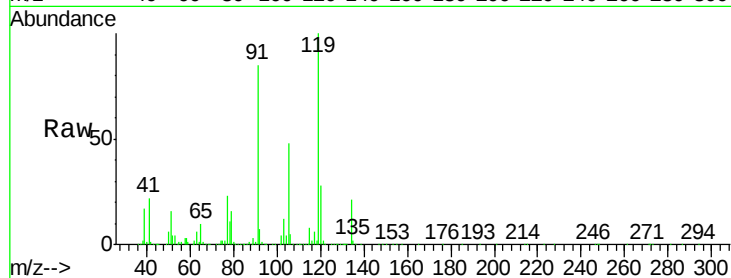
119 100

91 85.8 67.5 101.3

134 19.7 15.8 23.8

Manual Integrations
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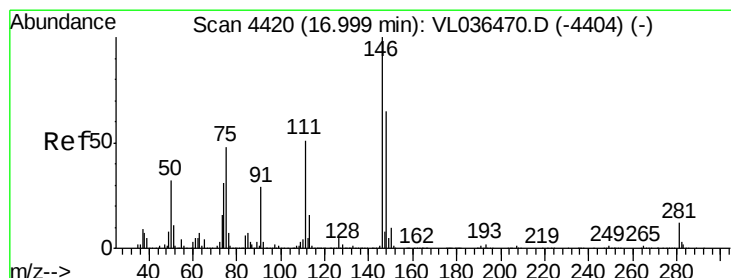
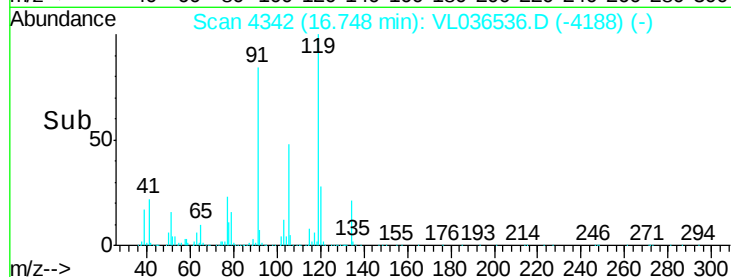
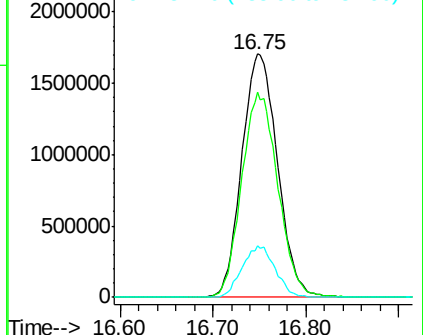
MMDadoda
3/30/2021 7:43:58 PM



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: 10.639 ppbv

RT: 16.99 min Scan# 4418

Delta R.T. -0.01 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

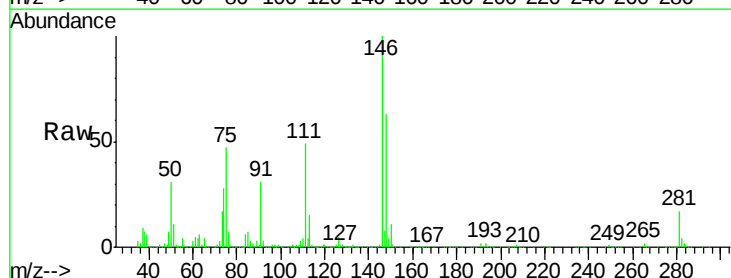
Tgt Ion: 91 Resp: 598035

Ion Ratio Lower Upper

91 100

126 16.8 13.5 20.3

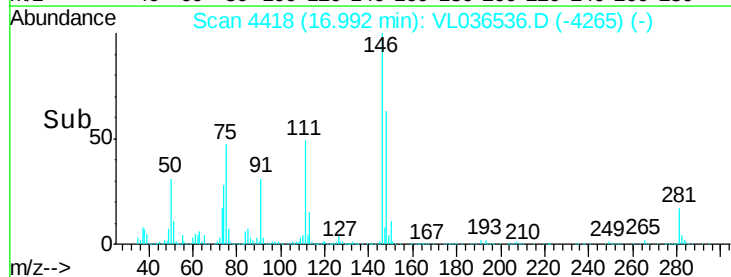
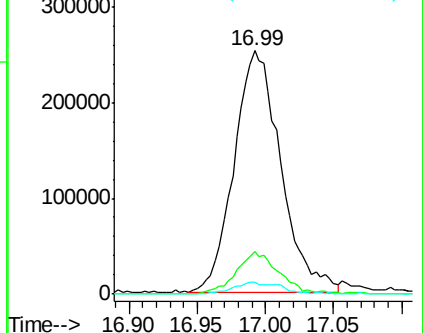
128 5.3 4.2 6.4

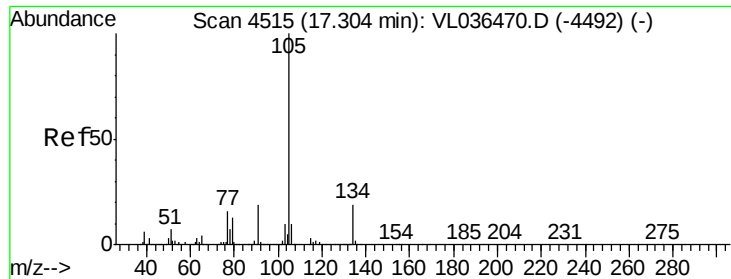


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.929 ppbv

RT: 17.30 min Scan# 4514

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 6409501

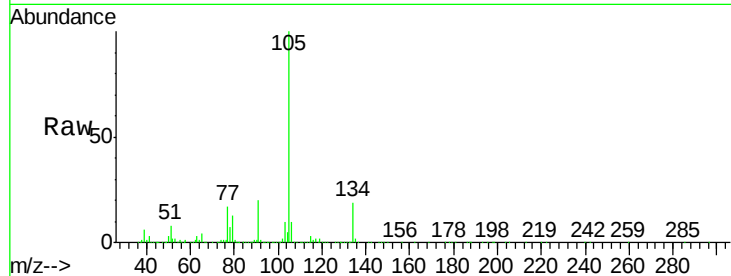
Ion Ratio Lower Upper

105 100

134 18.2 14.7 22.1

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

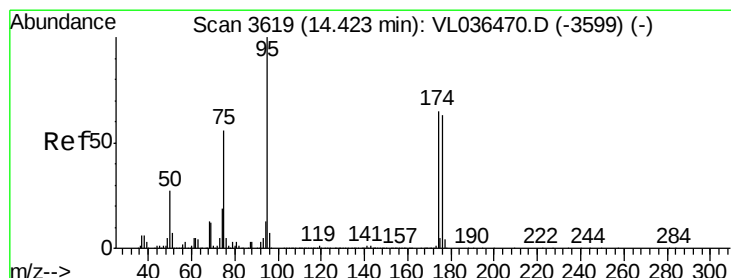
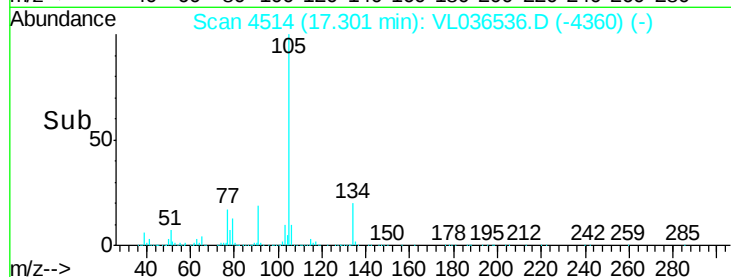
1000000

500000

0

17.20 17.30 17.40

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.807 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL036536.D

Acq: 29 Mar 2021 11:04

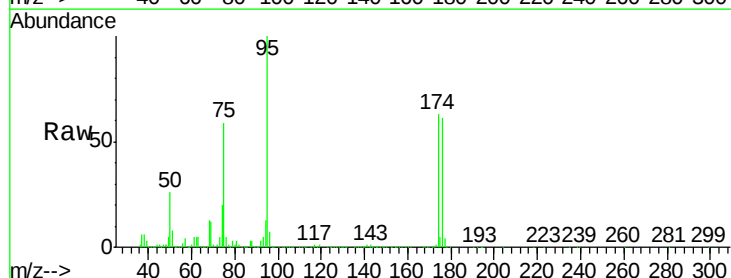
Tgt Ion: 95 Resp: 3057056

Ion Ratio Lower Upper

95 100

174 64.0 51.0 76.6

175 4.8 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1500000

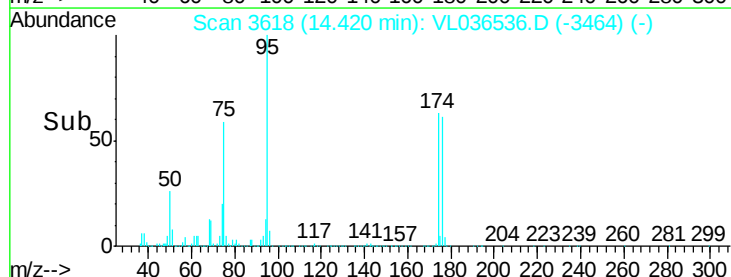
1000000

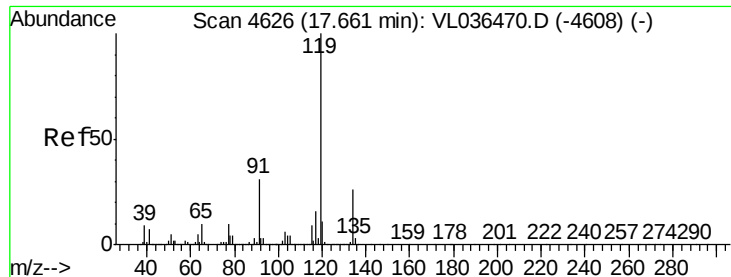
500000

0

14.40 14.42 14.50

Time-->





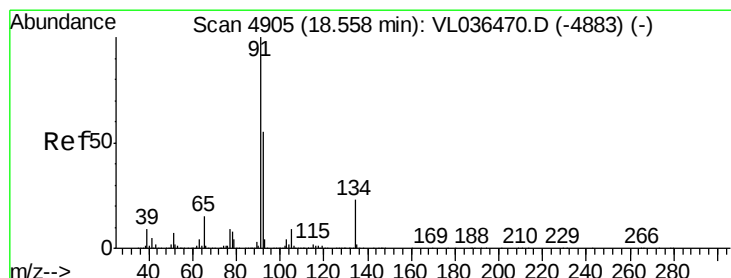
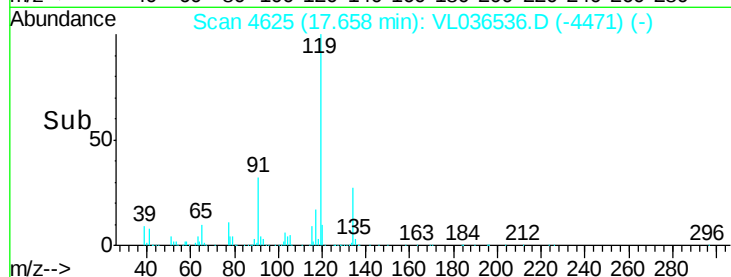
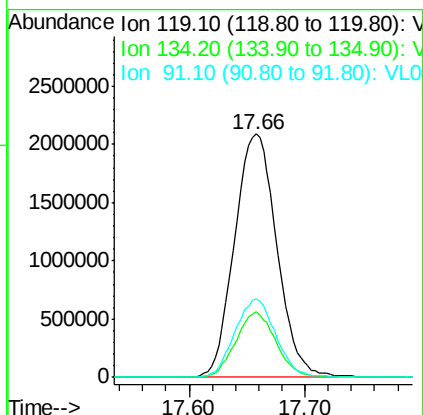
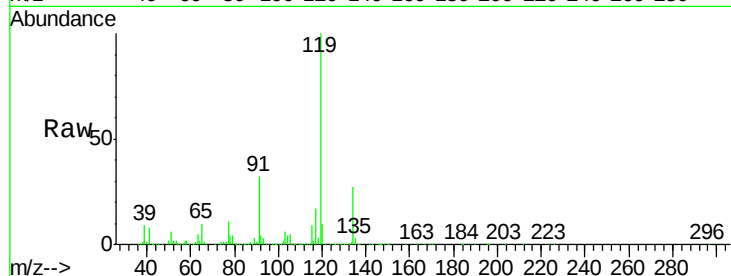
#69
p-Isopropyltoluene
Concen: 9.411 ppbv
RT: 17.66 min Scan# 4625
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.6	30.8
91	31.4	25.0	37.6

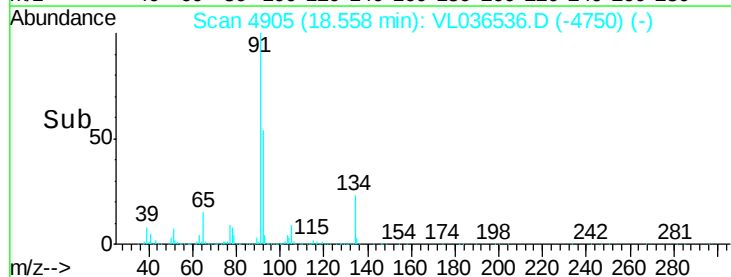
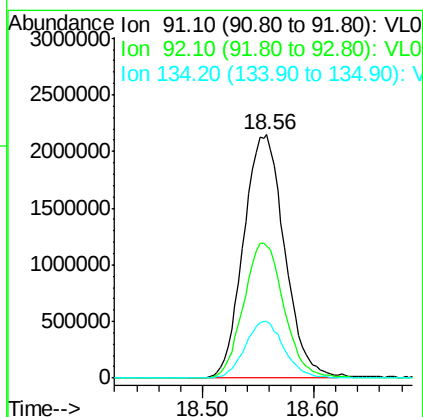
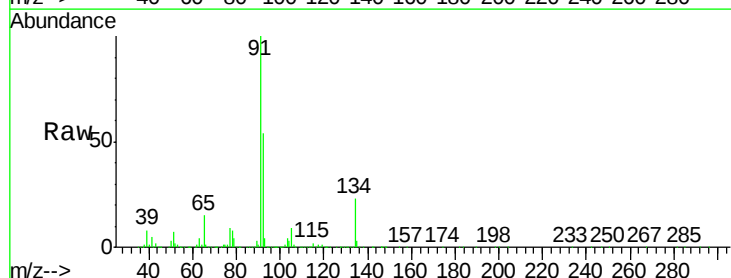
Manual Integrations
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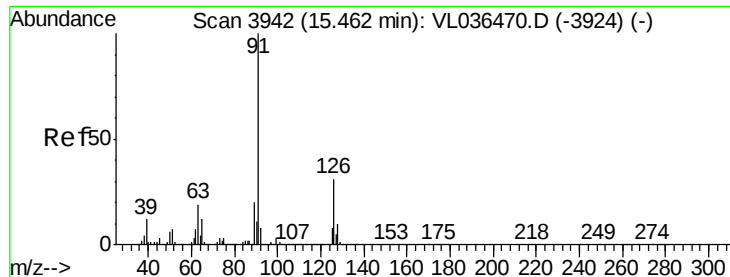
MMDadoda
3/30/2021 7:43:58 PM



#70
n-Butylbenzene
Concen: 9.504 ppbv
RT: 18.56 min Scan# 4905
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.8	65.8
134	22.5	18.0	27.0





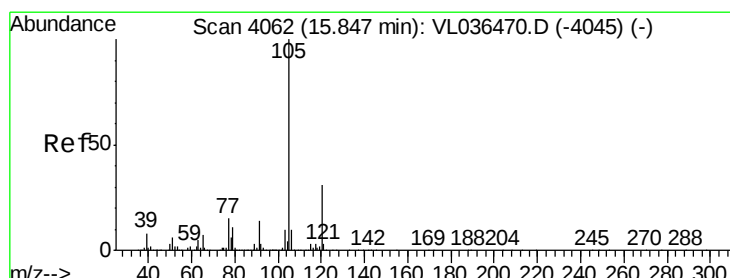
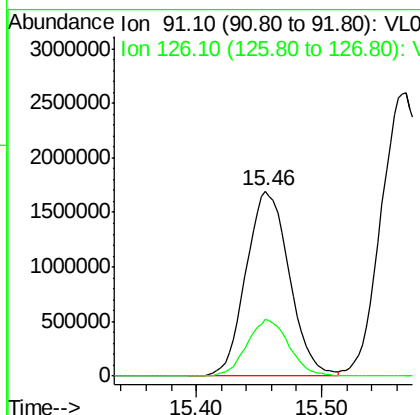
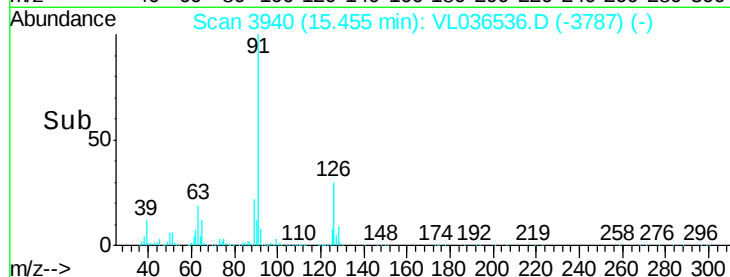
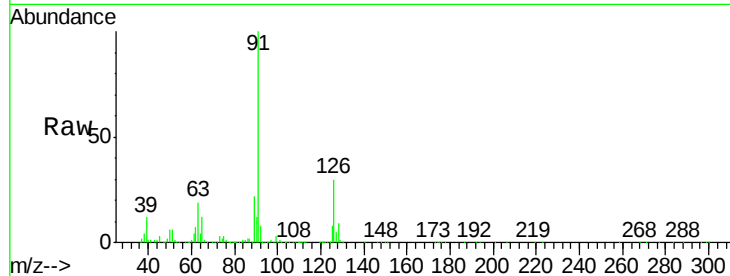
#71
 2-Chlorotoluene
 Concen: 9.257 ppbv
 RT: 15.46 min Scan# 3940
 Delta R.T. -0.01 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 4068183
 Ion Ratio Lower Upper
 91 100
 126 30.4 12.1 48.5

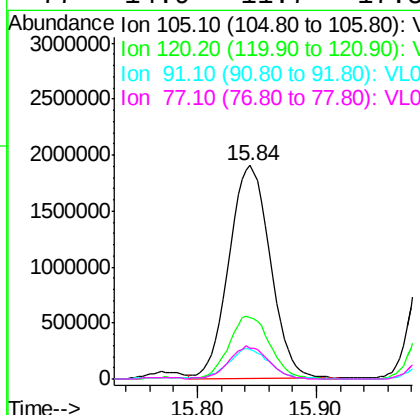
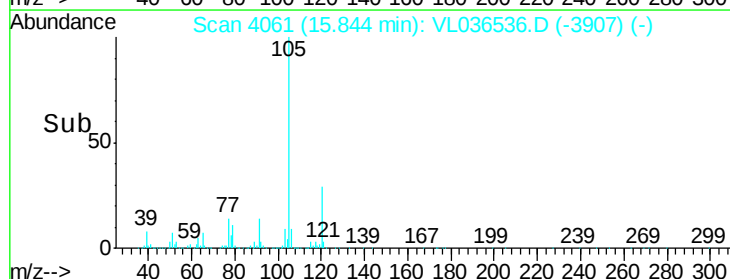
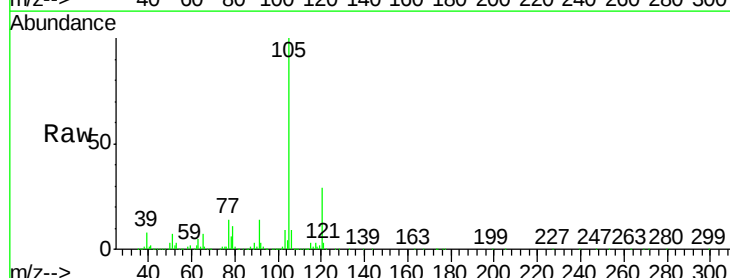
Manual Integrations
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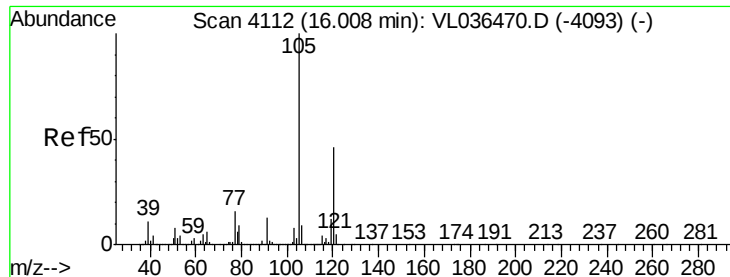
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 3/30/2021 7:43:58 PM



#72
 4-Ethyltoluene
 Concen: 9.539 ppbv
 RT: 15.84 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion: 105 Resp: 4552121
 Ion Ratio Lower Upper
 105 100
 120 29.5 24.0 36.0
 91 14.8 11.0 16.4
 77 14.9 11.7 17.5





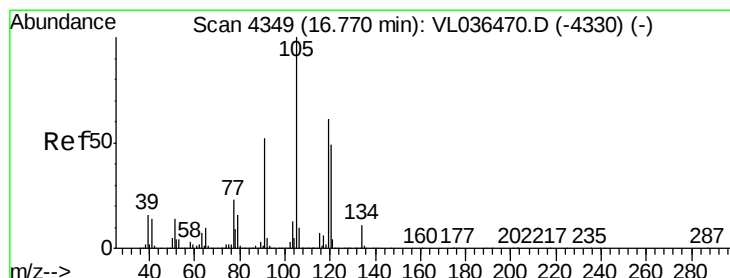
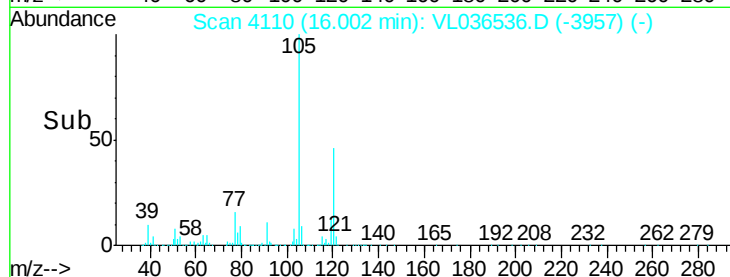
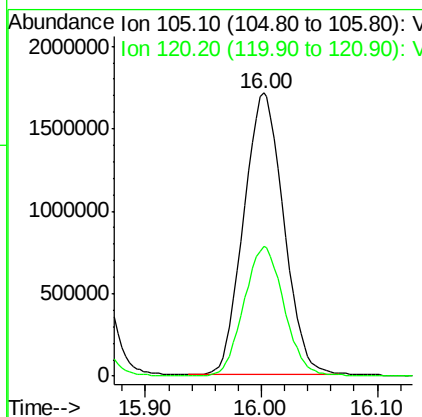
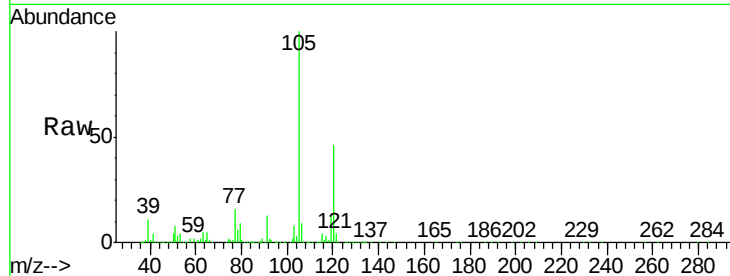
#73
 1,3,5-Trimethylbenzene
 Concen: 9.239 ppbv
 RT: 16.00 min Scan# 4110
 Delta R.T. -0.01 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 4114941
 Ion Ratio Lower Upper
 105 100
 120 46.1 36.6 54.8

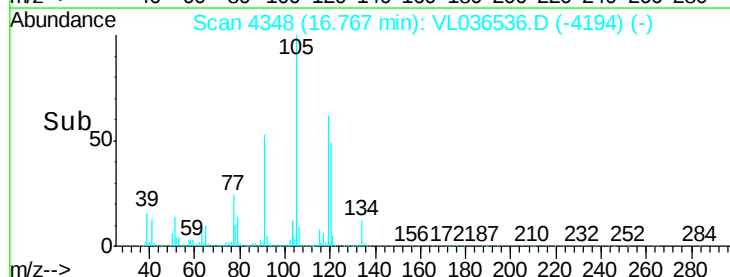
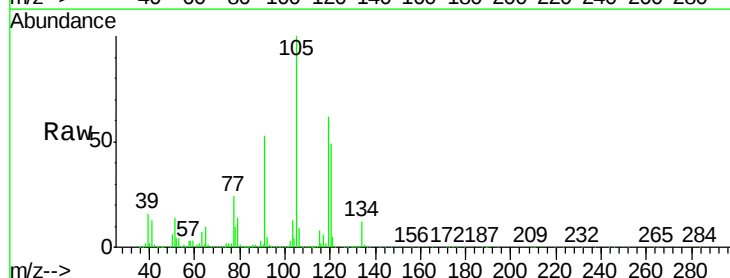
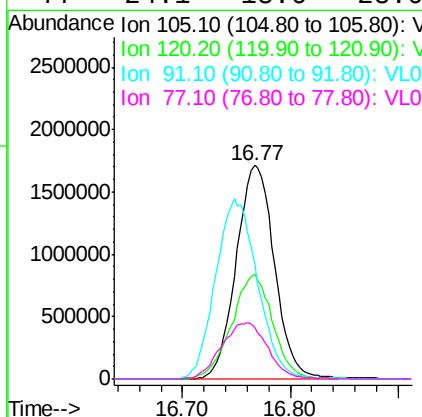
Manual Integrations
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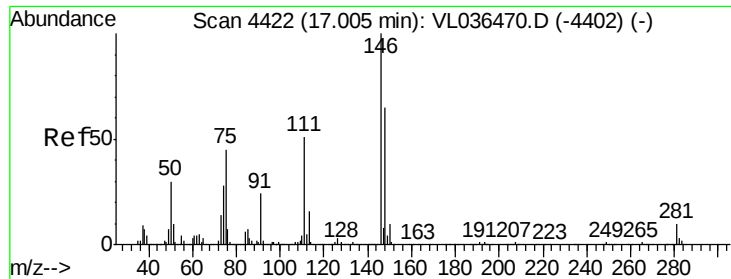
MMDadoda
 3/30/2021 7:43:58 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.868 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion:105 Resp: 4226599
 Ion Ratio Lower Upper
 105 100
 120 48.9 39.2 58.8
 91 52.9 42.6 64.0
 77 24.1 18.6 28.0





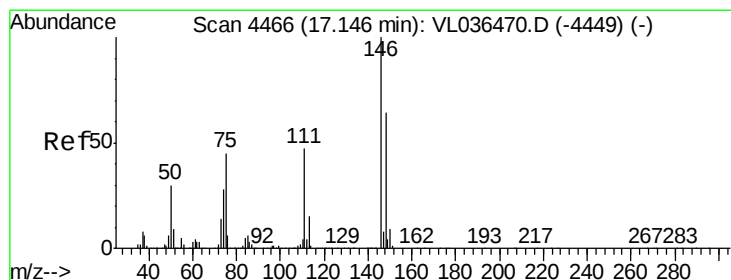
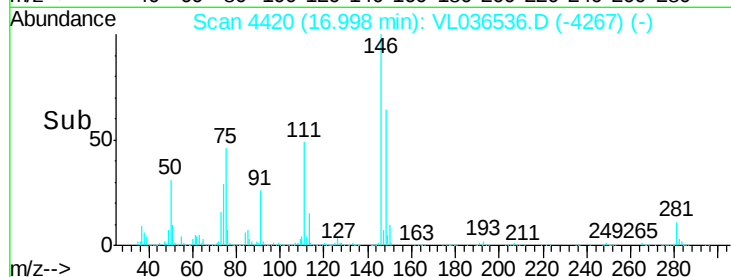
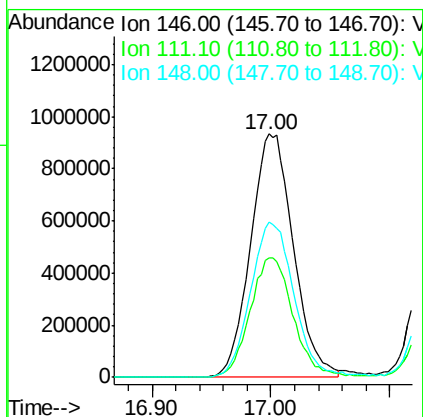
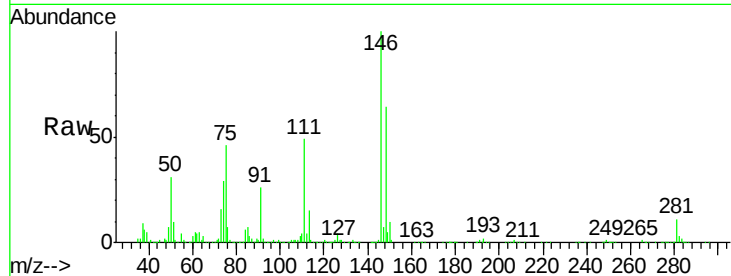
#75
 1,3-Dichlorobenzene
 Concen: 8.660 ppbv
 RT: 17.00 min Scan# 4420
 Delta R.T. -0.01 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.5	73.5
148	64.7	32.3	96.9

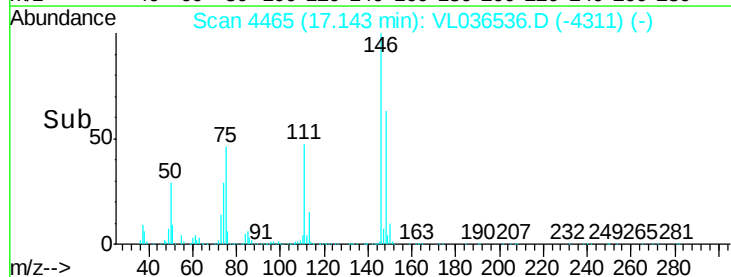
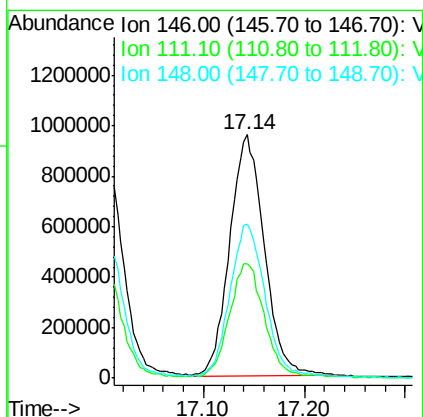
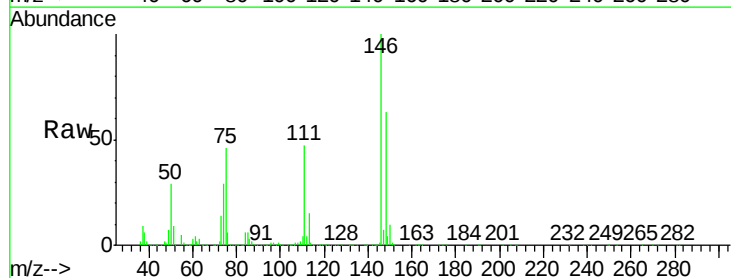
Manual Integrations
 APPROVED

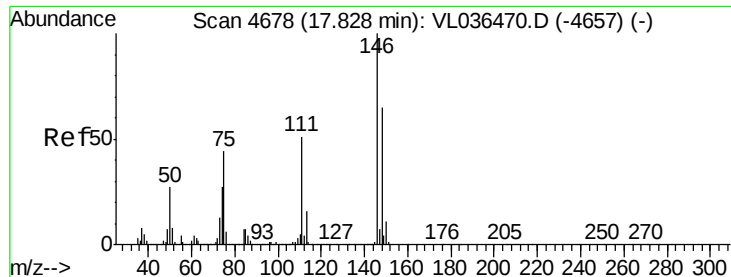
MMDadoda
 3/30/2021 7:43:58 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.563 ppbv
 RT: 17.14 min Scan# 4465
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.2	24.3	72.8
148	64.6	33.0	98.9





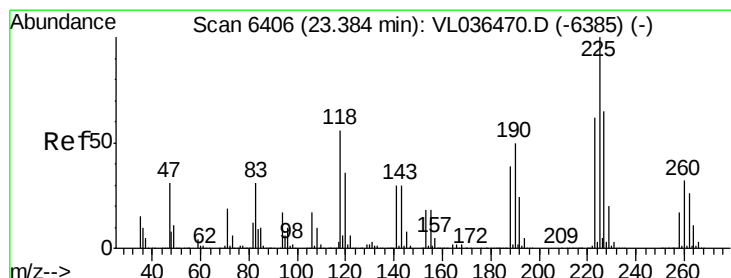
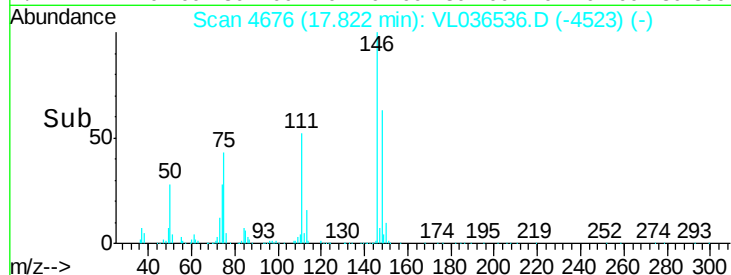
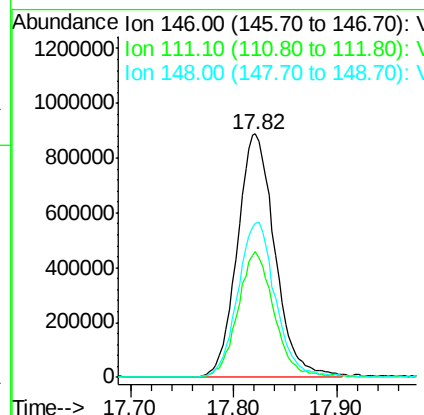
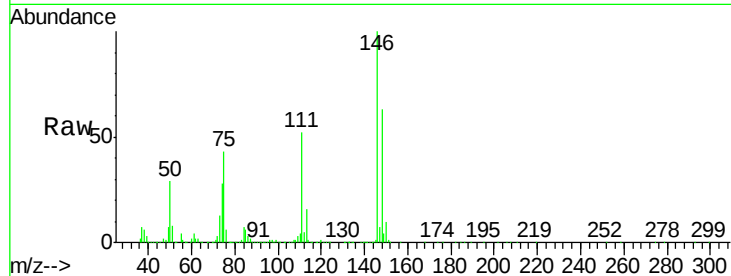
#77
 1,2-Dichlorobenzene
 Concen: 8.899 ppbv
 RT: 17.82 min Scan# 4678
 Delta R.T. -0.01 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 2244141
 Ion Ratio Lower Upper
 146 100
 111 50.1 25.5 76.5
 148 64.1 32.9 98.6

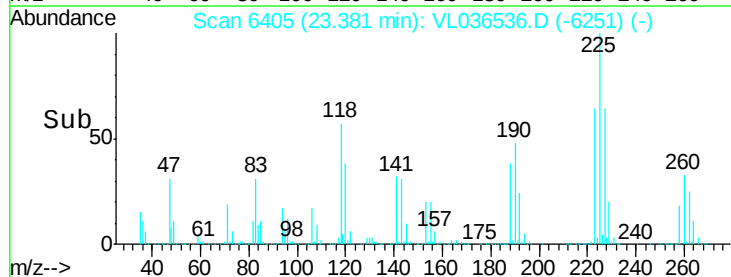
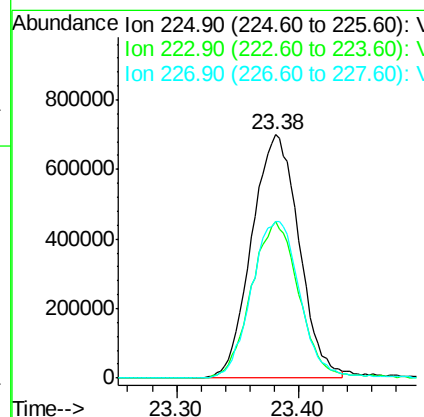
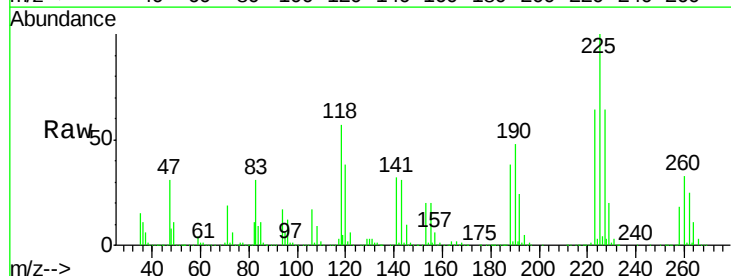
Manual Integrations
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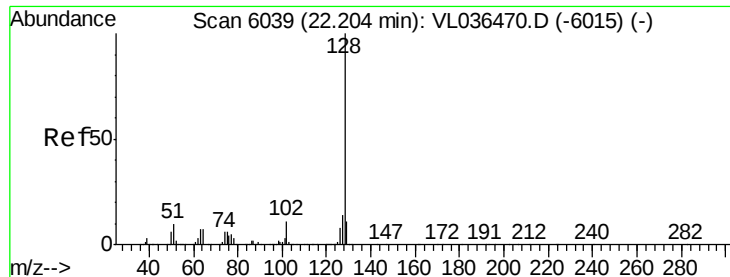
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.341 ppbv
 RT: 23.38 min Scan# 6405
 Delta R.T. -0.00 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Tgt Ion:225 Resp: 1883830
 Ion Ratio Lower Upper
 225 100
 223 65.0 50.6 75.8
 227 66.3 52.2 78.2





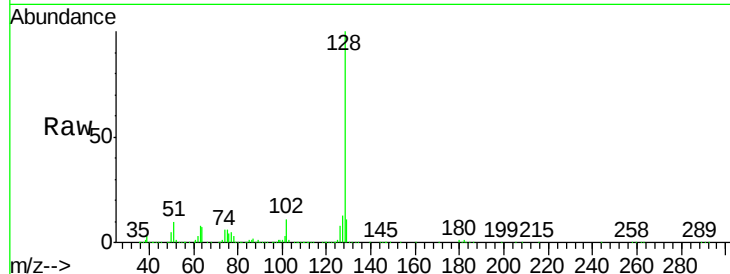
#79
Naphthalene
Concen: 12.173 ppbv
RT: 22.20 min Scan# 6038
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

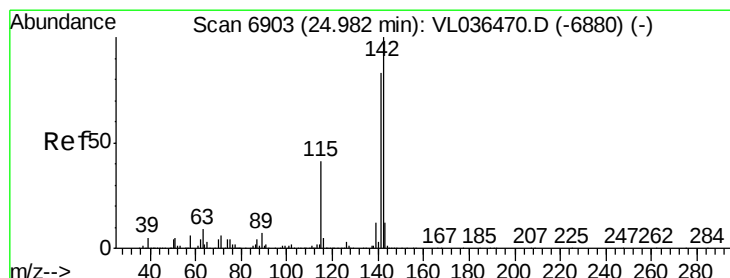
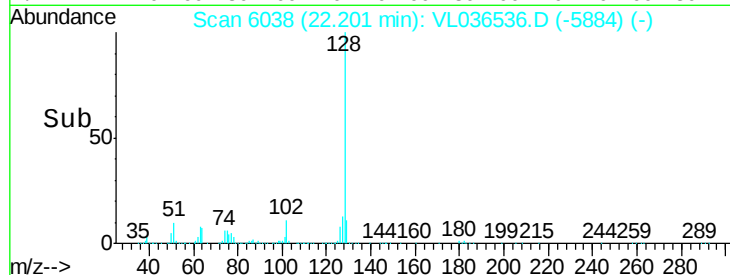
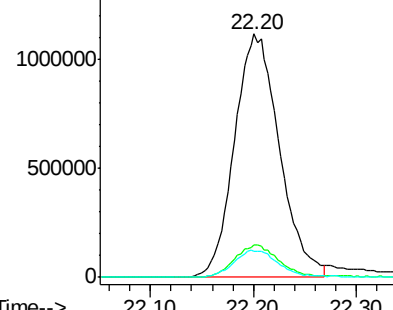
Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.9	16.3
129	10.7	9.0	13.4

Manual Integrations
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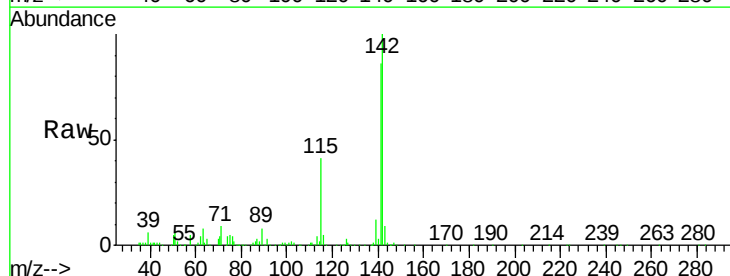


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

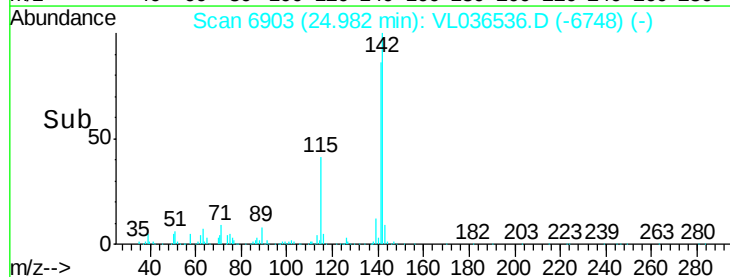
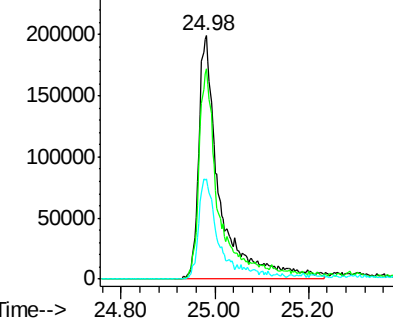


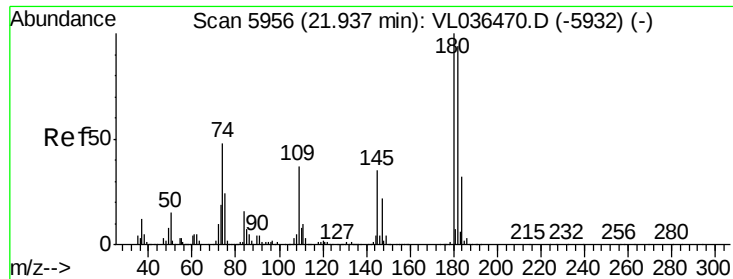
#80
Naphthalene, 2-methyl-
Concen: 11.367 ppbv
RT: 24.98 min Scan# 6903
Delta R.T. -0.00 min
Lab File: VL036536.D
Acq: 29 Mar 2021 11:04

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.7	67.8	101.8
115	41.1	34.0	51.0



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.941 ppbv m
 RT: 21.93 min Scan# 5954
 Delta R.T. -0.01 min
 Lab File: VL036536.D
 Acq: 29 Mar 2021 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.4	80.8	121.2
184	32.0	25.0	37.4

Manual Integrations
 APPROVED

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