

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
 Data File : VL035174.D
 Acq On : 8 Jul 2020 6:28
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 12:02:40 PM

Quant Time: Jul 08 07:03:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08
 QLast Update : Wed Jul 08 06:17:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1328013	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3133561	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3212149	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2463952	9.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1904177	10.587	ppbv 99
3) Chlorodifluoromethane	2.94	51	1854150	12.748	ppbv 99
4) Chloromethane	3.10	50	1085015	13.356	ppbv 100
5) Vinyl Chloride	3.21	62	1095373	14.051	ppbv 98
6) Bromomethane	3.43	94	681924	13.996	ppbv 96
7) Chloroethane	3.52	64	418615	14.141	ppbv 96
8) Dichlorotetrafluoroethane	3.14	85	2431384	12.633	ppbv 100
9) Propene	2.96	41	775954	13.554	ppbv 97
10) Heptane	8.13	43	2221603	14.910	ppbv 99
11) Trichlorofluoromethane	3.92	101	2601138	13.421	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1853826	13.814	ppbv 99
13) Ethanol	3.56	45	196490	9.261	ppbv 94
14) Bromoethene	3.70	108	848042	14.756	ppbv 98
15) Acetone	3.81	43	2007381	12.434	ppbv 99
16) 1,3-Butadiene	3.29	39	998456	14.271	ppbv 99
17) tert-Butyl alcohol	4.26	59	2250918	15.672	ppbv 100
18) 1,1-Dichloroethene	4.26	96	864385	14.301	ppbv 96
19) Isopropyl Alcohol	3.93	45	1527893	14.718	ppbv # 97
20) Methylene Chloride	4.31	84	768465	11.695	ppbv 98
21) Allyl Chloride	4.38	41	1444031	15.097	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	857883	15.045	ppbv 98
23) Vinyl Acetate	5.05	43	2855410	14.783	ppbv 99
24) 1,1-Dichloroethane	4.99	63	2204260	13.449	ppbv 99
25) Ethyl Acetate	5.66	43	3837611	13.316	ppbv 100
26) Hexane	5.67	57	1697502	13.040	ppbv 99
27) Carbon Disulfide	4.52	76	2322278	16.715	ppbv 100
28) Methyl tert-Butyl Ether	5.01	73	2641190	14.416	ppbv 98
29) Chloroform	5.74	83	2691850	13.191	ppbv 96
30) Cyclohexane	7.13	84	1462156	15.706	ppbv 98
31) cis-1,2-Dichloroethene	5.54	61	1727180	14.505	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	2650472	13.947	ppbv 99
34) 2-Butanone	5.23	43	2422748	13.665	ppbv 100
35) Carbon Tetrachloride	7.02	117	2745841	14.565	ppbv 97
36) Benzene	6.89	78	3363768	14.024	ppbv 97
37) 1,2-Dichloroethane	6.30	62	2102703	13.774	ppbv 100
38) Trichloroethene	7.84	130	1339578	14.252	ppbv 99
39) 1,2-Dichloropropane	7.62	63	1330499	14.218	ppbv 98
40) 1,4-Dioxane	7.83	88	537168	14.182	ppbv 96
41) Tetrahydrofuran	6.04	42	1330794	14.741	ppbv 99
42) Bromodichloromethane	7.80	83	2910105	14.671	ppbv 99
43) Methyl Methacrylate	8.02	69	1606256	15.815	ppbv 99

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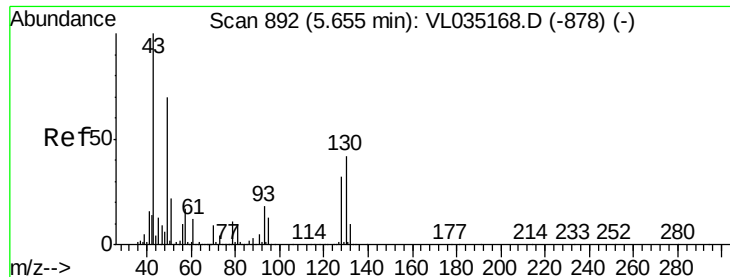
Manual Integrations
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Quant Time: Jul 08 07:03:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5728801	13.667	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1834453	18.500	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	2105099	17.122	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	1451567	14.113	ppbv	98
48) Dibromochloromethane	10.33	129	2472116	15.996	ppbv	99
49) Bromoform	13.08	173	2193806	16.655	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3737127	14.715	ppbv	100
51) 2-Hexanone	10.15	43	3084019	15.566	ppbv	100
52) Tetrachloroethene	11.25	164	1236231	14.530	ppbv	97
53) Toluene	9.83	91	3936224	15.336	ppbv	99
54) 1,2-Dibromoethane	10.64	107	2223564	14.564	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.16	131	1836378	13.808	ppbv	96
57) Chlorobenzene	12.18	112	3023883	12.754	ppbv	98
58) Ethyl Benzene	12.74	91	5282172	14.557	ppbv	96
59) m/p-Xylene	13.02	91	8690335m	27.022	ppbv	
60) o-Xylene	13.73	91	4411720	13.742	ppbv	99
61) Styrene	13.56	104	3242460	16.048	ppbv	99
62) Isopropylbenzene	14.70	105	6434496	13.433	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	3176002	12.237	ppbv	100
64) n-propylbenzene	15.60	120	1777010	14.520	ppbv	91
65) tert-Butylbenzene	16.79	119	5708827	13.819	ppbv	100
66) Benzyl Chloride	17.03	91	2454289	18.826	ppbv	100
67) sec-Butylbenzene	17.33	105	8051769	13.571	ppbv	98
69) p-Isopropyltoluene	17.69	119	6771856	14.311	ppbv	99
70) n-Butylbenzene	18.59	91	7085608	13.879	ppbv	98
71) 2-Chlorotoluene	15.49	91	5063014	13.974	ppbv	98
72) 4-Ethyltoluene	15.88	105	5235326	14.605	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	4931805	14.504	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	5026810	13.218	ppbv	98
75) 1,3-Dichlorobenzene	17.04	146	2965761	13.102	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	3003784	13.821	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	2878880	13.809	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	2042724	11.133	ppbv	99
79) Naphthalene	22.26	128	4490871	13.865	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1764373	14.984	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	2456795	13.042	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

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ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1328013

Ion Ratio Lower Upper

49 100

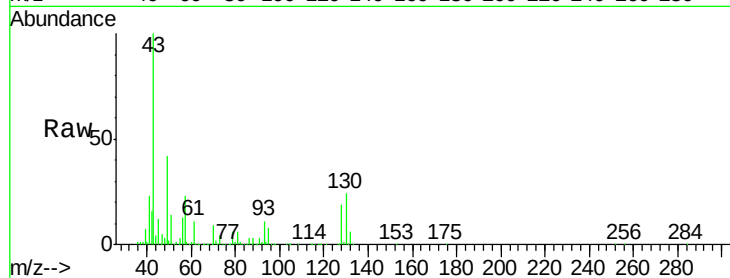
128 46.0 23.8 71.4

130 59.0 29.9 89.8

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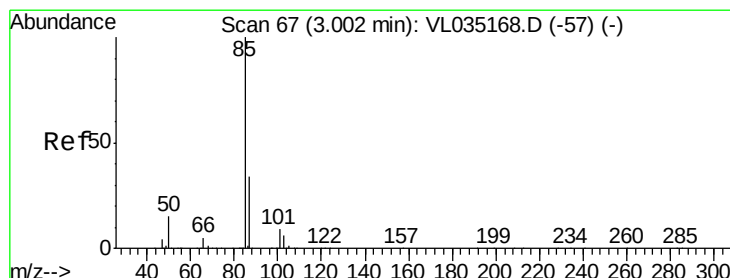
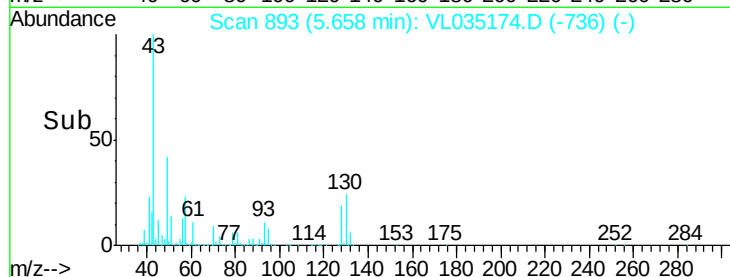
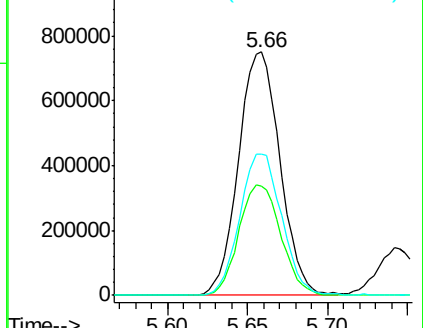
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 10.587 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL035174.D

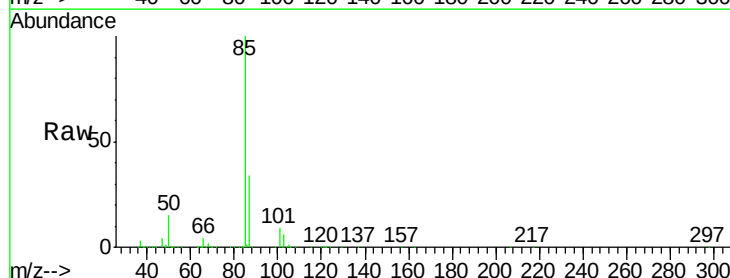
Acq: 8 Jul 2020 6:28

Tgt Ion: 85 Resp: 1904177

Ion Ratio Lower Upper

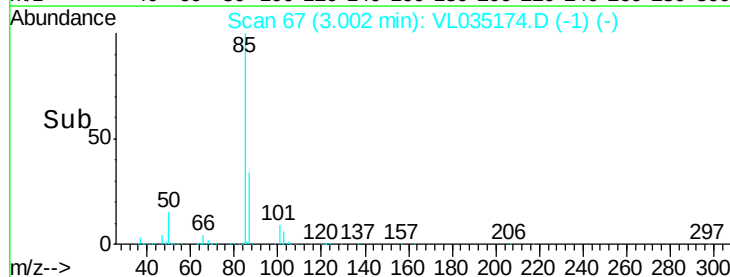
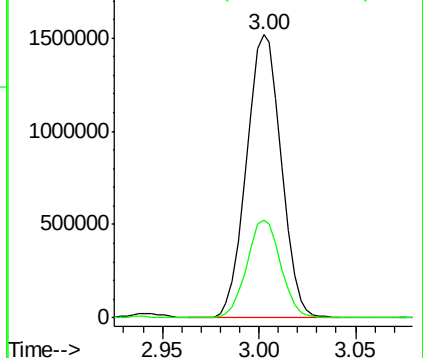
85 100

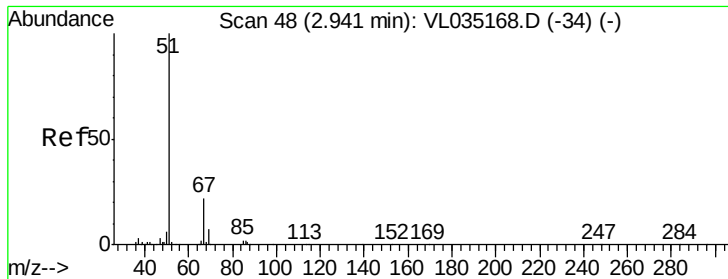
87 34.5 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





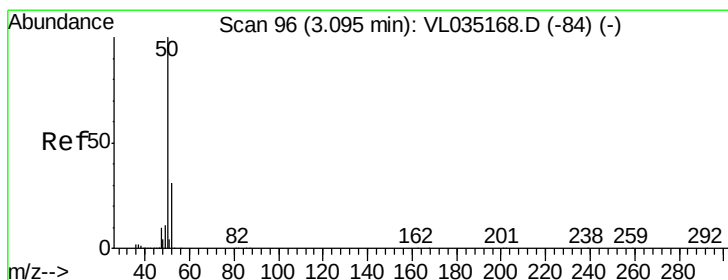
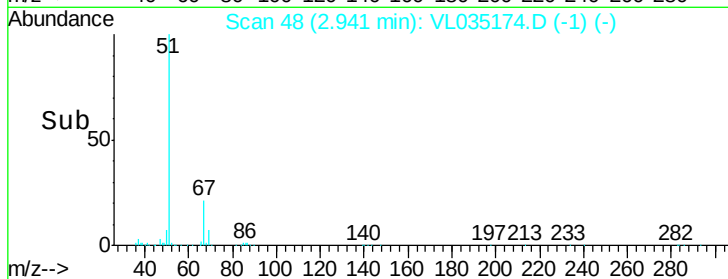
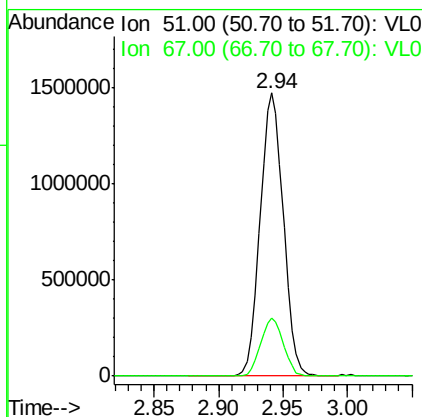
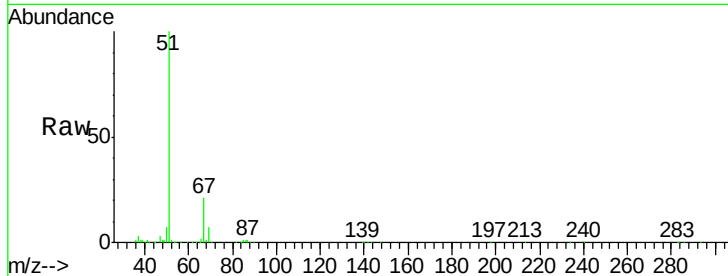
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 Chlorodifluoromethane
 Concen: 12.748 ppbv
 RT: 2.94 min Scan# 48
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 51 Resp: 1854150
 Ion Ratio Lower Upper
 51 100
 67 20.4 16.6 24.8

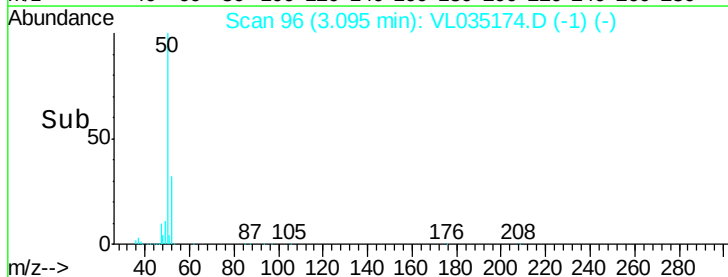
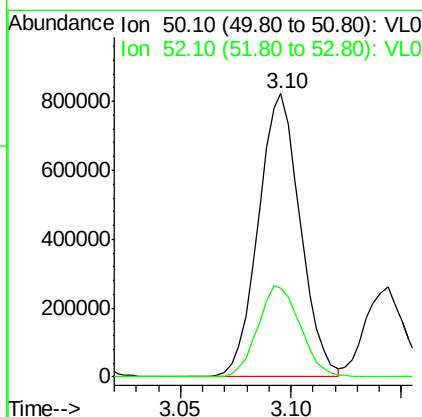
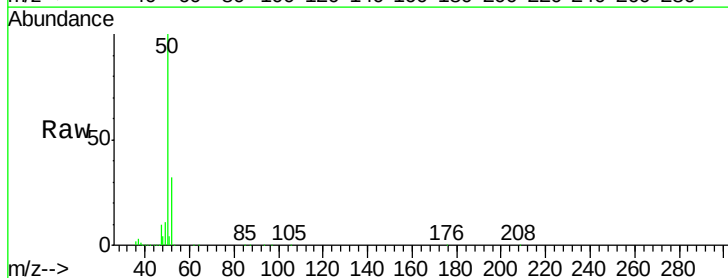
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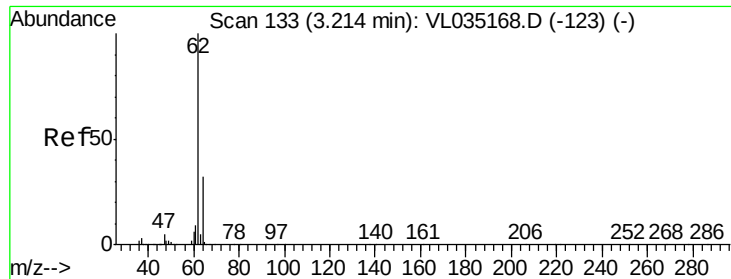
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#4
 Chloromethane
 Concen: 13.356 ppbv
 RT: 3.10 min Scan# 96
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion: 50 Resp: 1085015
 Ion Ratio Lower Upper
 50 100
 52 31.5 25.0 37.6





#5

Vinyl Chloride

Concen: 14.051 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1095373

Ion Ratio Lower Upper

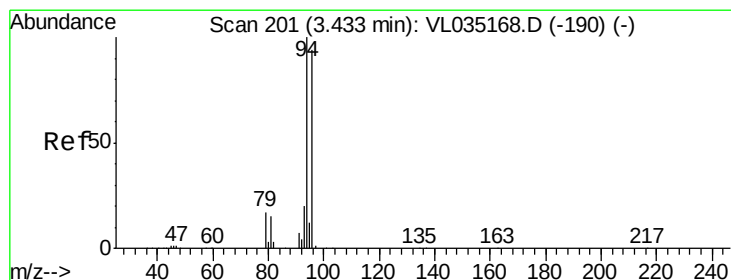
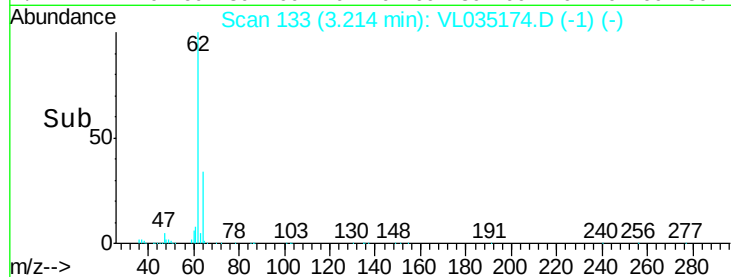
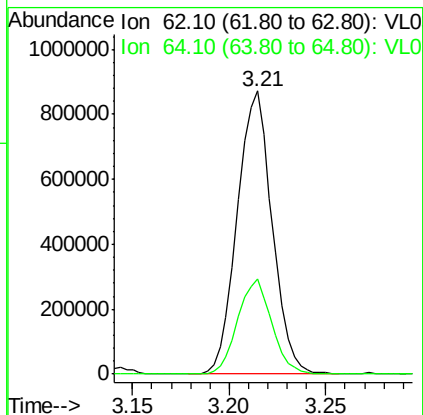
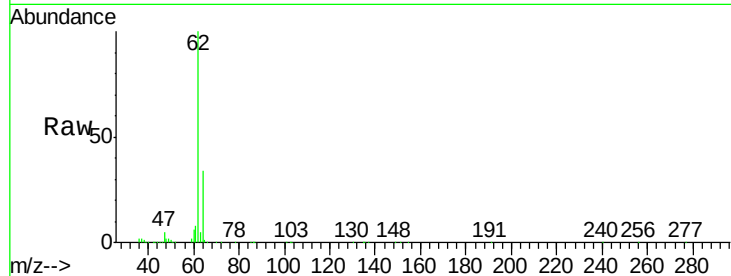
62 100

64 33.7 25.9 38.9

Manual Integrations
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#6

Bromomethane

Concen: 13.996 ppbv

RT: 3.43 min Scan# 201

Delta R.T. 0.00 min

Lab File: VL035174.D

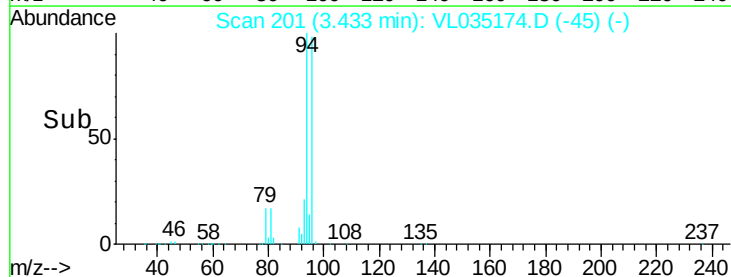
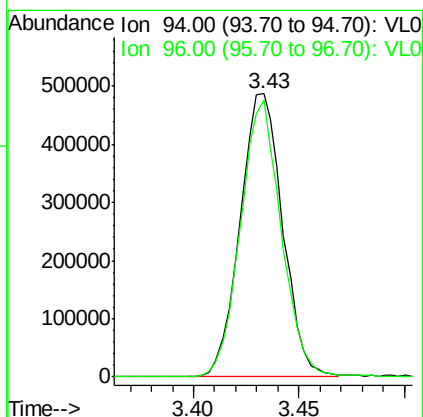
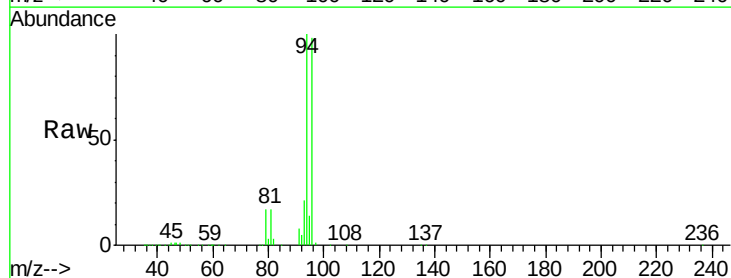
Acq: 8 Jul 2020 6:28

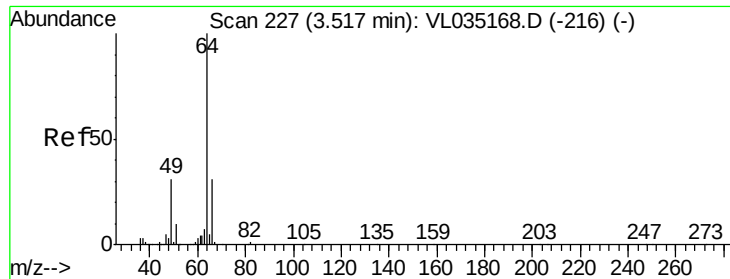
Tgt Ion: 94 Resp: 681924

Ion Ratio Lower Upper

94 100

96 97.7 74.8 112.2





#7

Chloroethane

Concen: 14.141 ppbv

RT: 3.52 min Scan# 227

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 418615

Ion Ratio Lower Upper

64 100

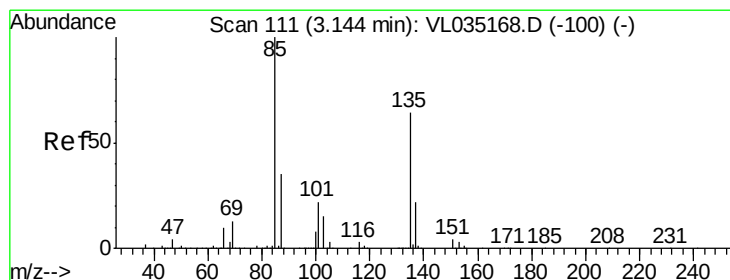
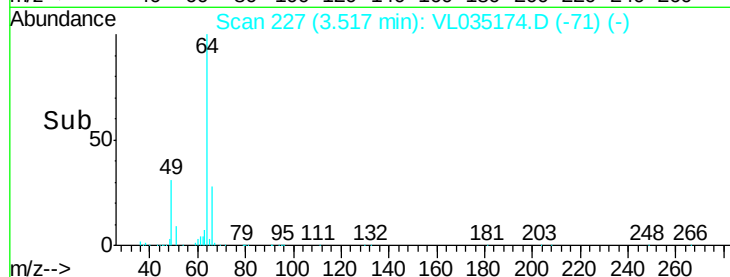
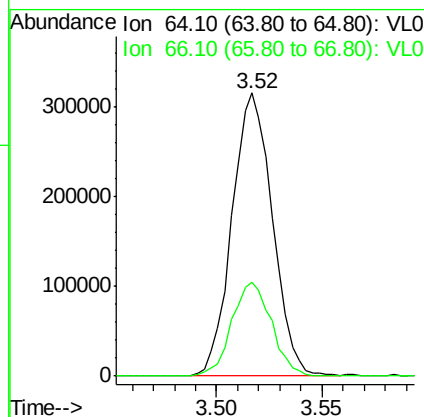
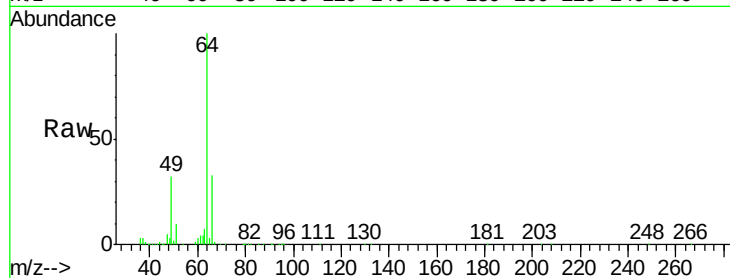
66 33.1 24.6 36.8

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#8

Dichlorotetrafluoroethane

Concen: 12.633 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035174.D

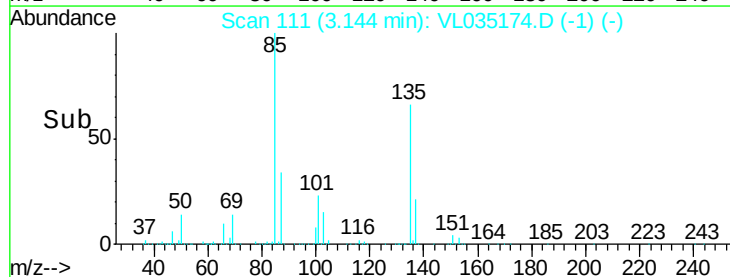
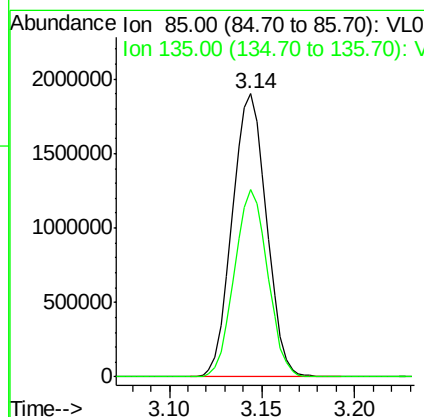
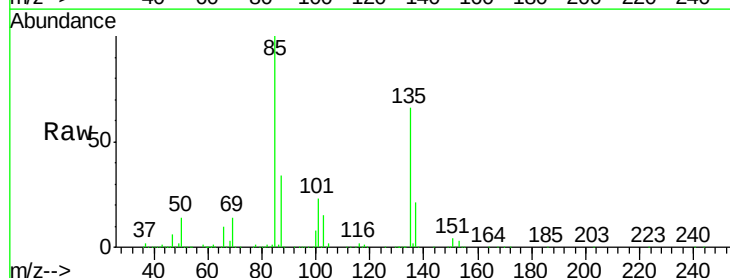
Acq: 8 Jul 2020 6:28

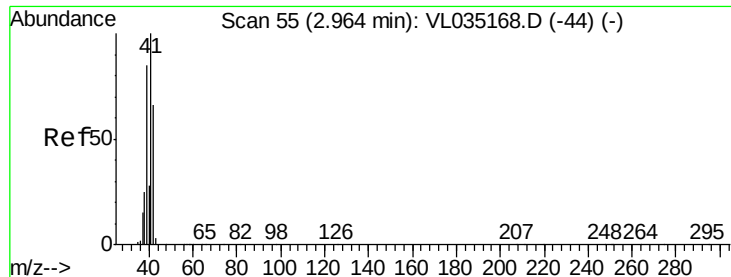
Tgt Ion: 85 Resp: 2431384

Ion Ratio Lower Upper

85 100

135 64.7 52.1 78.1





#9

Propene

Concen: 13.554 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

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ClientSampleId :

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Tot Ion: 41 Resp: 775954

Ion Ratio Lower Upper

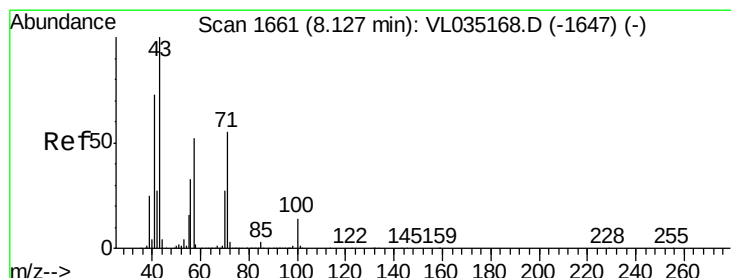
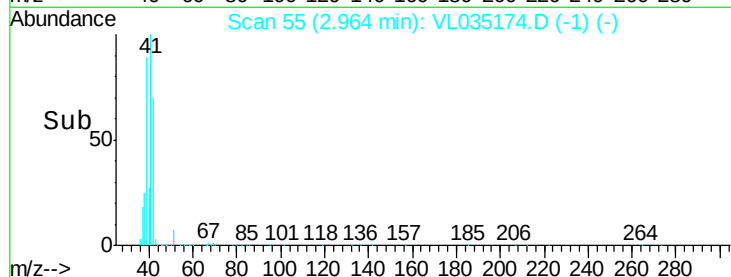
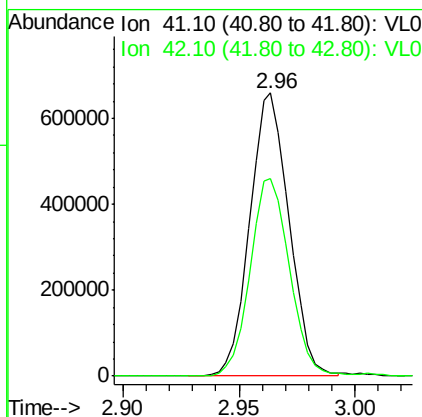
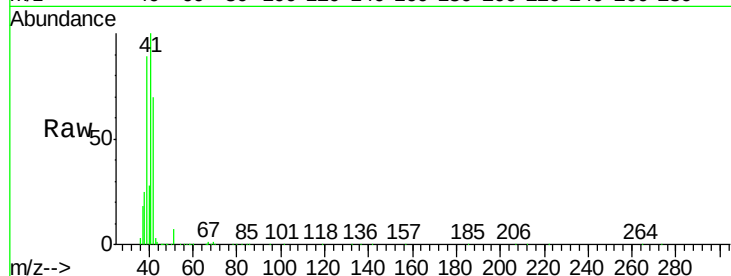
41 100

42 70.9 54.6 81.8

Manual Integrations
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#10

Heptane

Concen: 14.910 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL035174.D

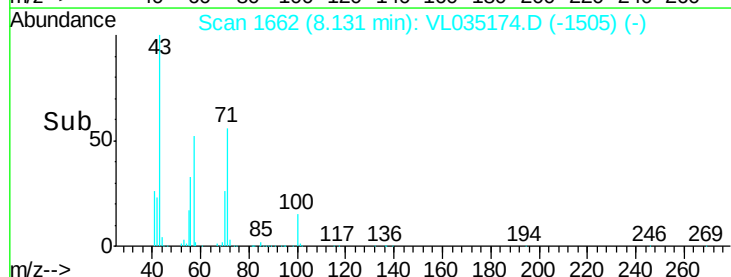
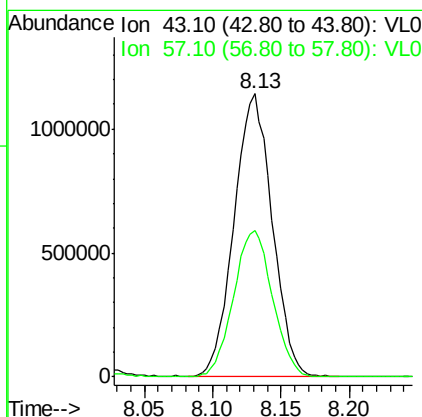
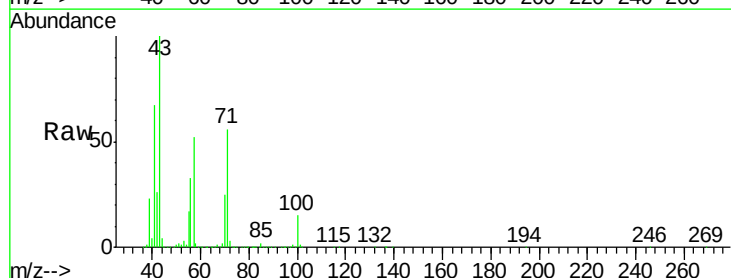
Acq: 8 Jul 2020 6:28

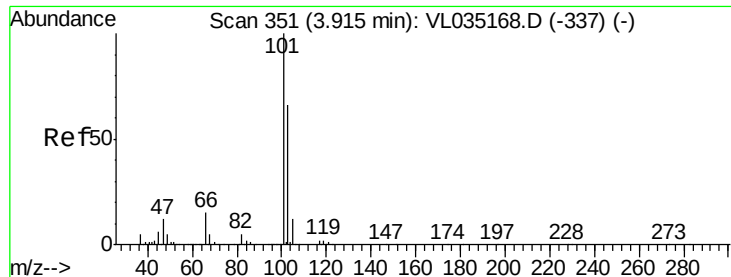
Tgt Ion: 43 Resp: 2221603

Ion Ratio Lower Upper

43 100

57 52.7 41.8 62.6





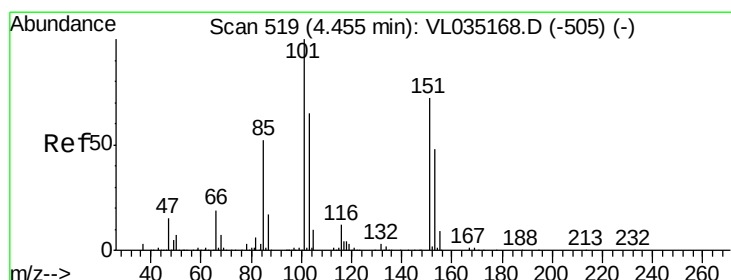
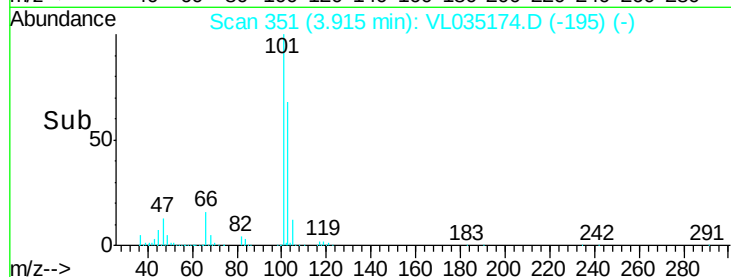
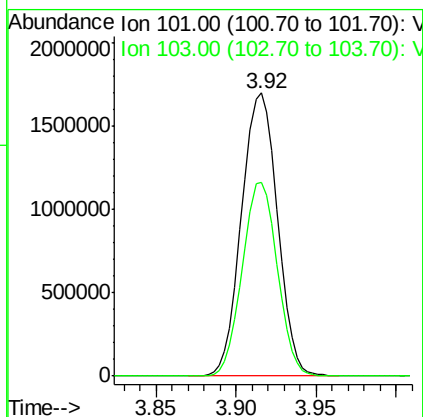
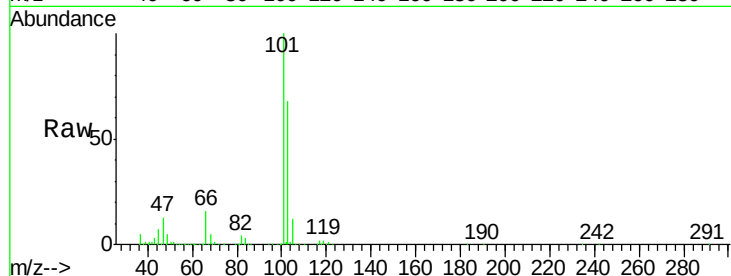
#11
 Trichlorofluoromethane
 Concen: 13.421 ppbv
 RT: 3.92 min Scan# 351
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2601138
 Ion Ratio Lower Upper
 101 100
 103 68.5 53.1 79.7

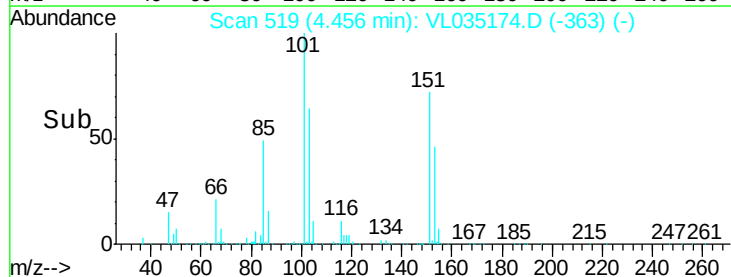
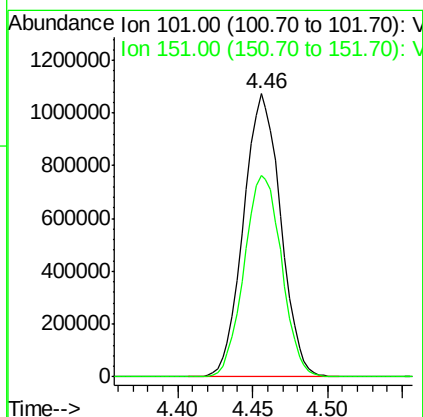
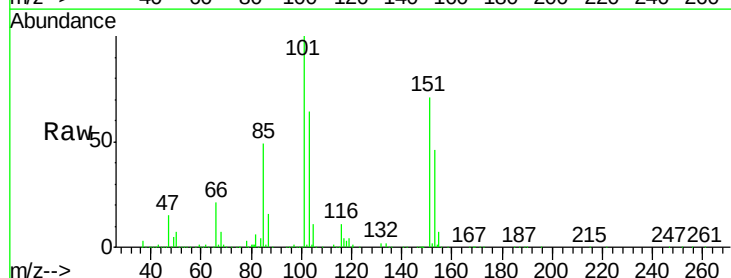
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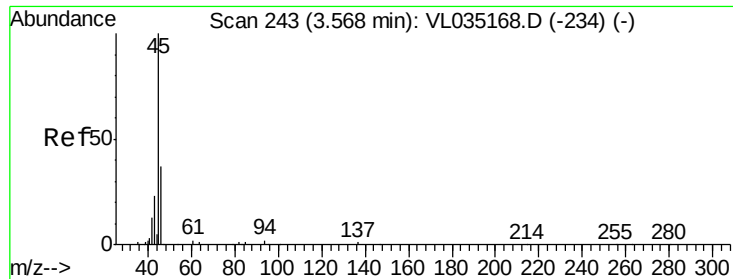
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.814 ppbv
 RT: 4.46 min Scan# 519
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion:101 Resp: 1853826
 Ion Ratio Lower Upper
 101 100
 151 72.0 57.0 85.4





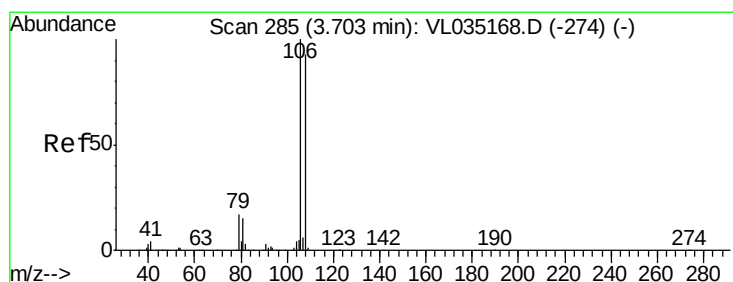
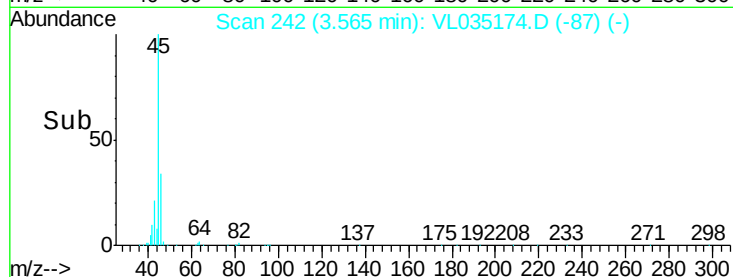
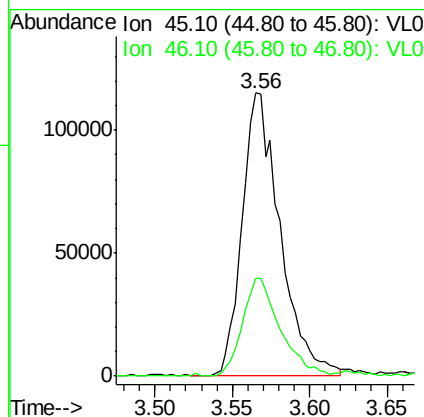
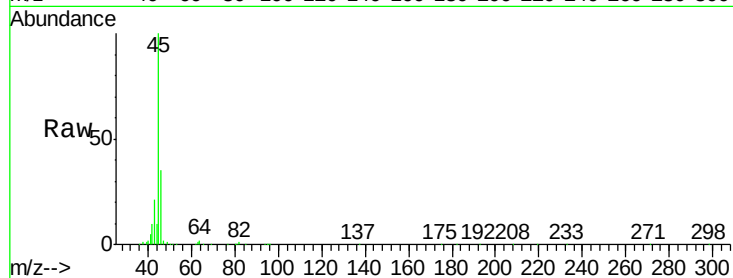
#13
Ethanol
Concen: 9.261 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	36.7		16.2	65.0	

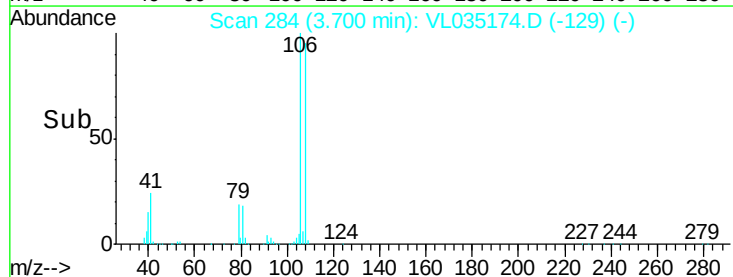
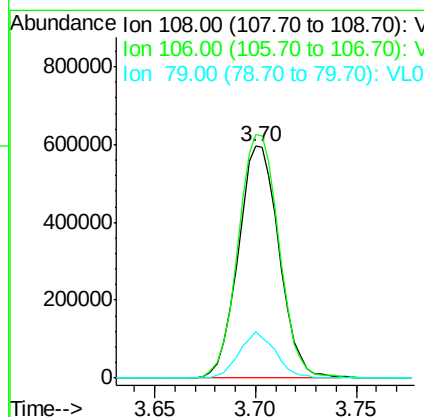
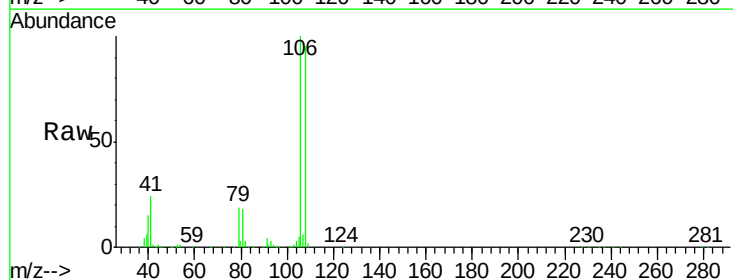
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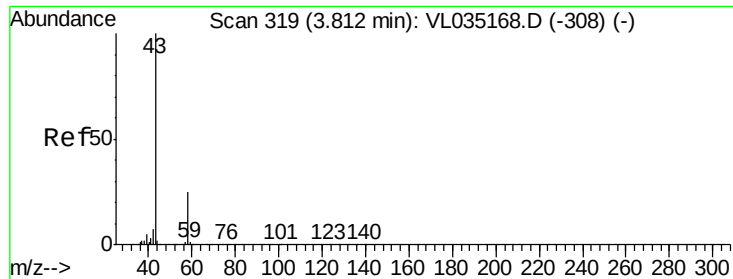
MMDadoda
7/9/2020 12:02:40 PM



#14
Bromoethene
Concen: 14.756 ppbv
RT: 3.70 min Scan# 284
Delta R.T. -0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion	108	106	79	Ratio	Lower	Upper
108	100					
106	105.2			86.2	129.2	
79	18.2			15.0	22.6	





#15

Acetone

Concen: 12.434 ppbv

RT: 3.81 min Scan# 319

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2007381

Ion Ratio Lower Upper

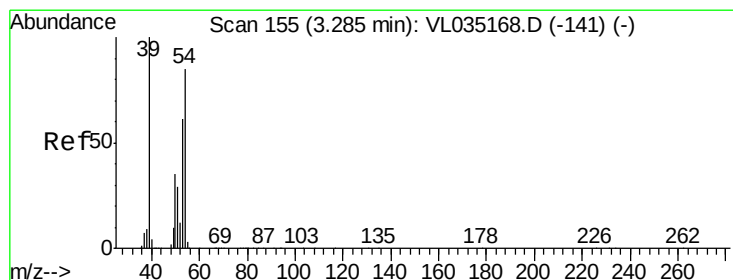
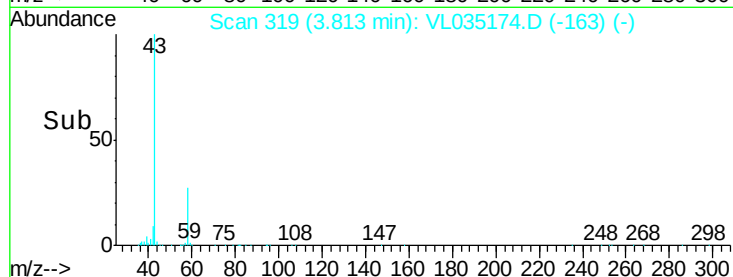
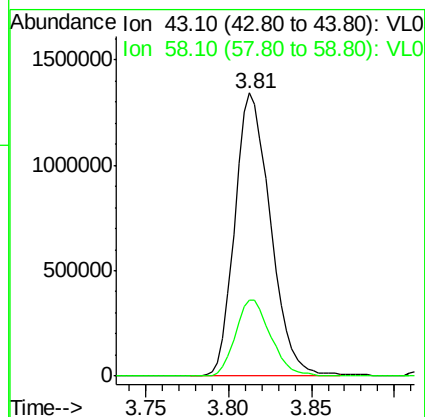
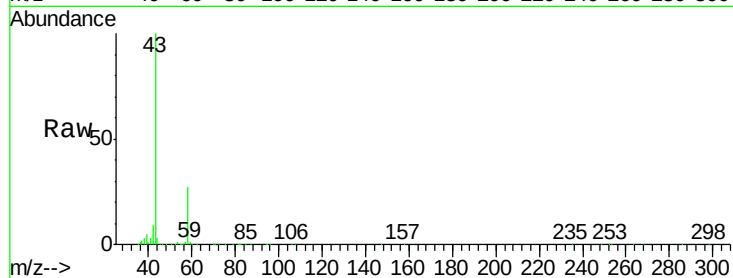
43 100

58 26.9 21.3 31.9

Manual Integrations
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#16

1,3-Butadiene

Concen: 14.271 ppbv

RT: 3.29 min Scan# 155

Delta R.T. 0.00 min

Lab File: VL035174.D

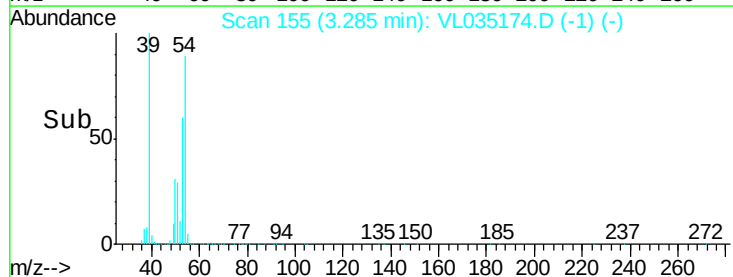
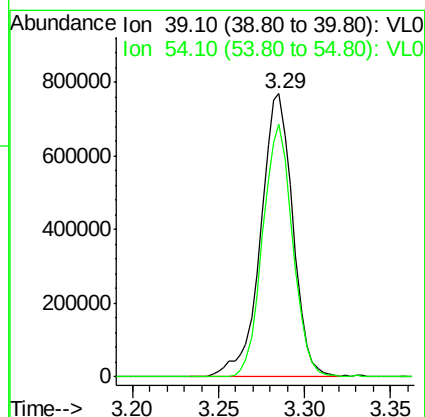
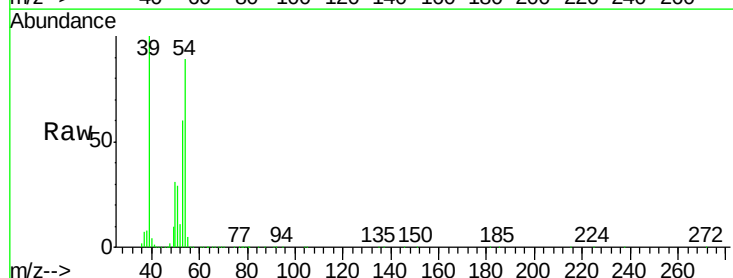
Acq: 8 Jul 2020 6:28

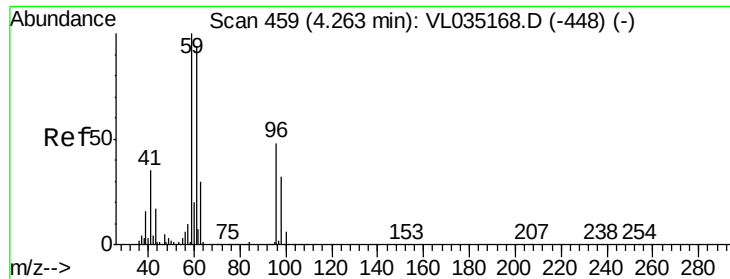
Tgt Ion: 39 Resp: 998456

Ion Ratio Lower Upper

39 100

54 83.3 67.2 100.8





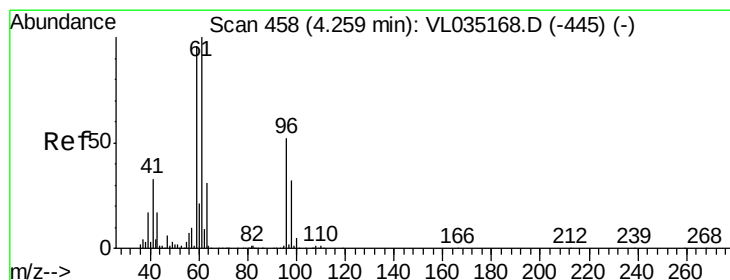
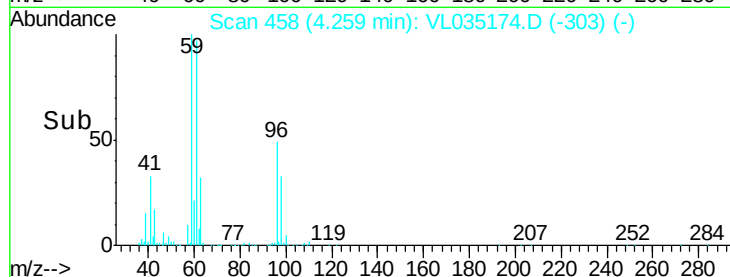
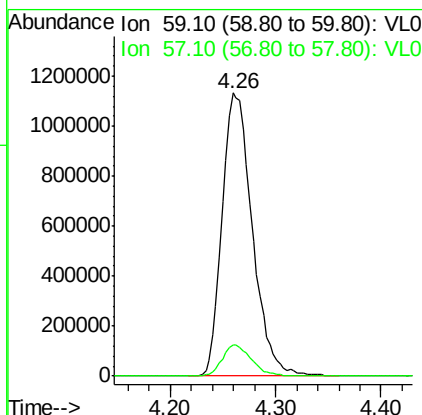
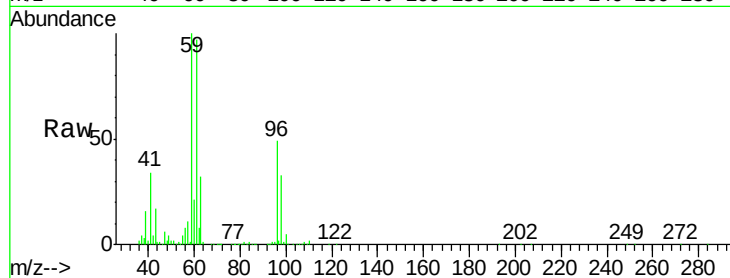
#17
 tert-Butyl alcohol
 Concen: 15.672 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. -0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 2250918
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.6 12.8

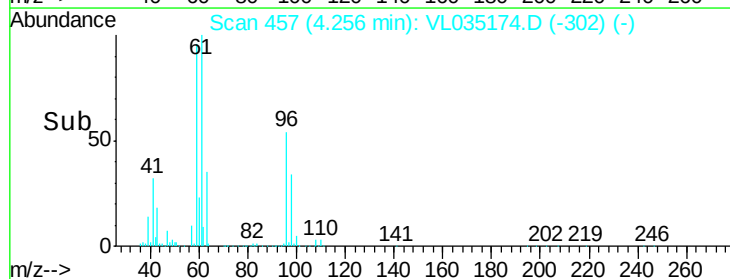
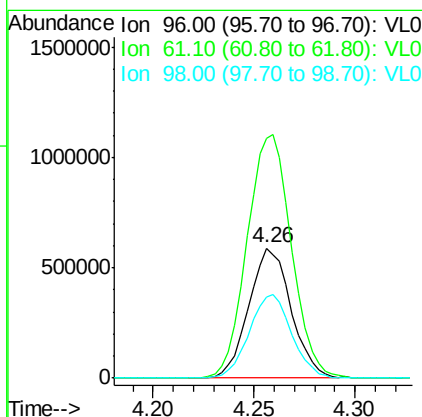
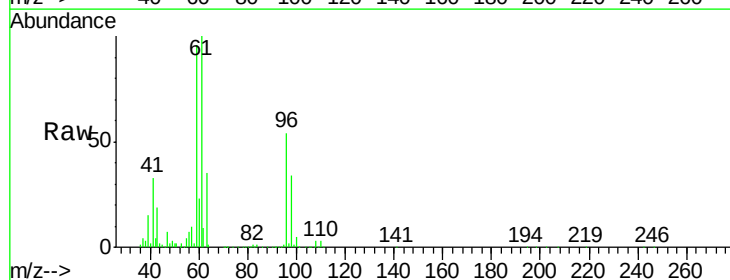
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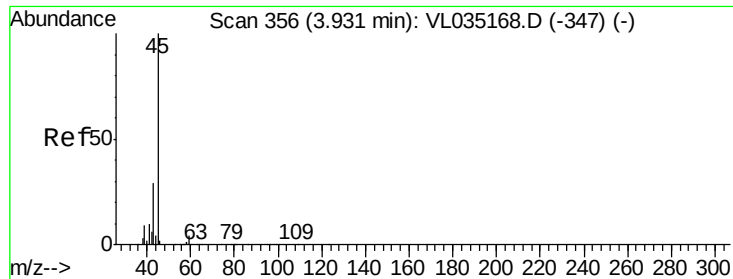
MMDadoda
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#18
 1,1-Dichloroethene
 Concen: 14.301 ppbv
 RT: 4.26 min Scan# 457
 Delta R.T. -0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion: 96 Resp: 864385
 Ion Ratio Lower Upper
 96 100
 61 183.7 152.9 229.3
 98 62.3 48.7 73.1





#19

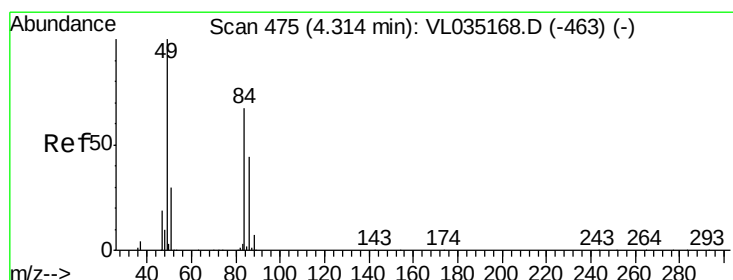
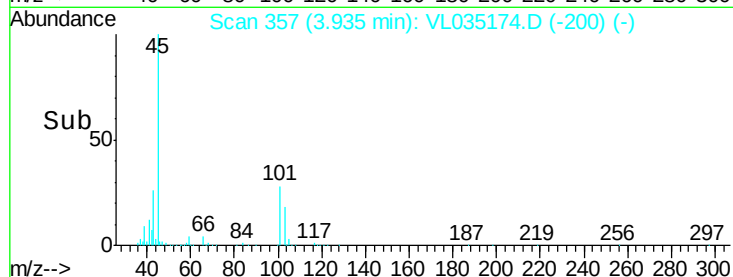
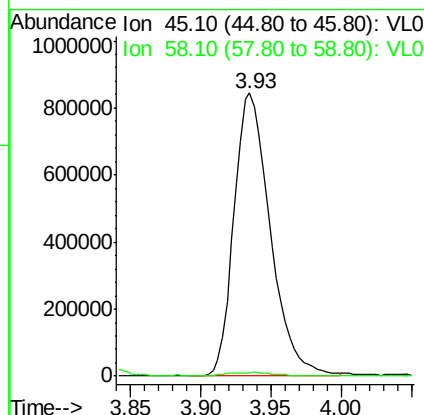
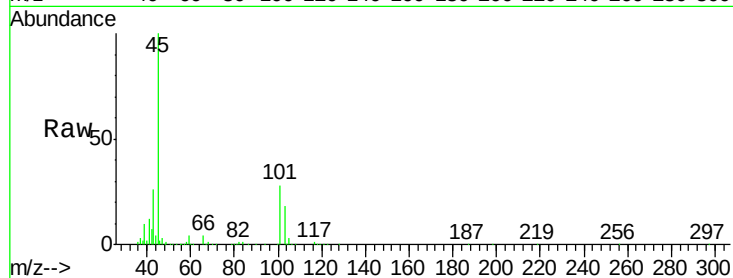
Isopropyl Alcohol
 Concen: 14.718 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1527893
 Ion Ratio Lower Upper
 45 100
 58 1.5 2.1 3.1#

Manual Integrations
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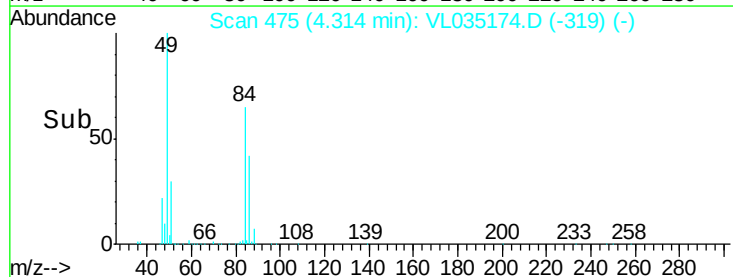
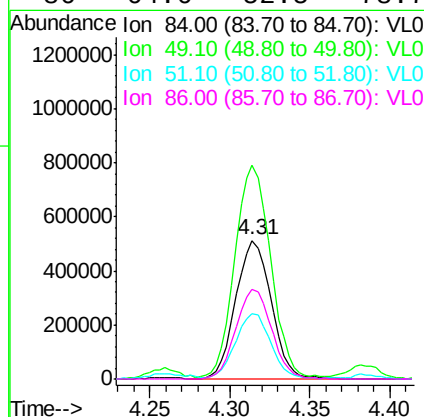
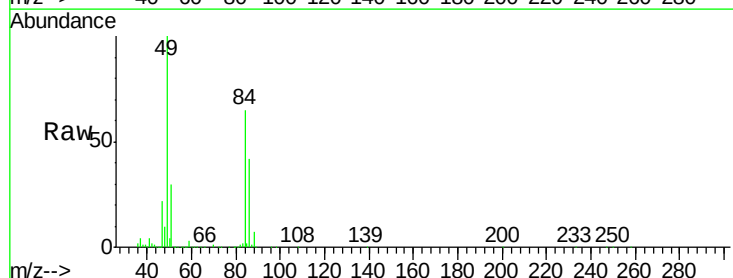
MMDadoda
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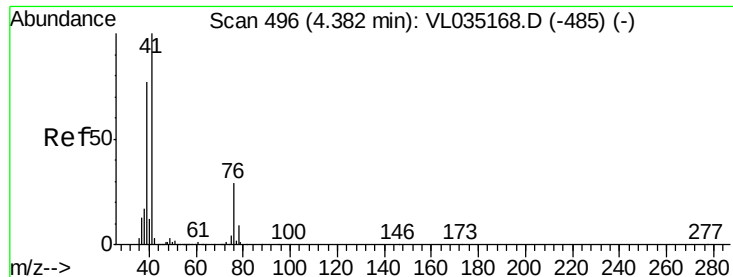


#20

Methylene Chloride
 Concen: 11.695 ppbv
 RT: 4.31 min Scan# 475
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion: 84 Resp: 768465
 Ion Ratio Lower Upper
 84 100
 49 151.7 119.4 179.0
 51 46.1 36.6 55.0
 86 64.6 52.5 78.7





#21

Allvl Chloride

Concen: 15.097 ppbv

RT: 4.38 min Scan# 497

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

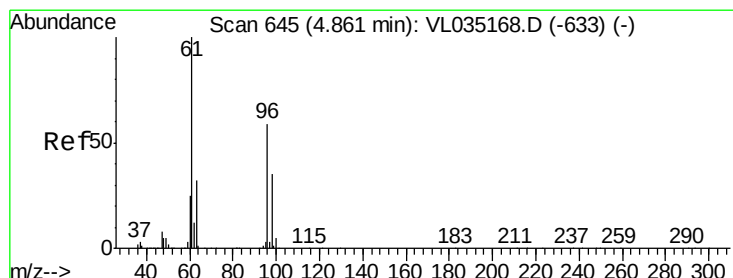
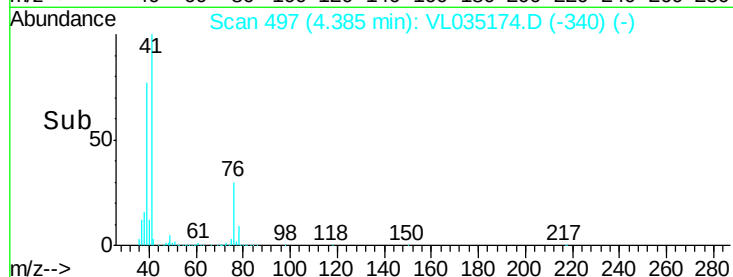
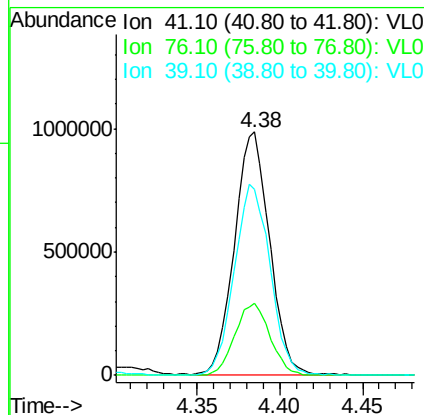
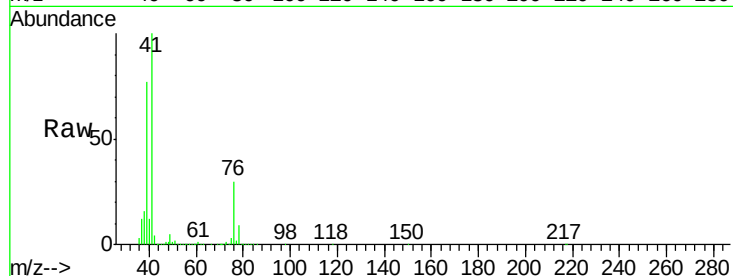
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	1444031
Ion	Ratio	Lower	Upper
41	100		
76	29.8	23.5	35.3
39	80.3	63.4	95.0

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 15.045 ppbv

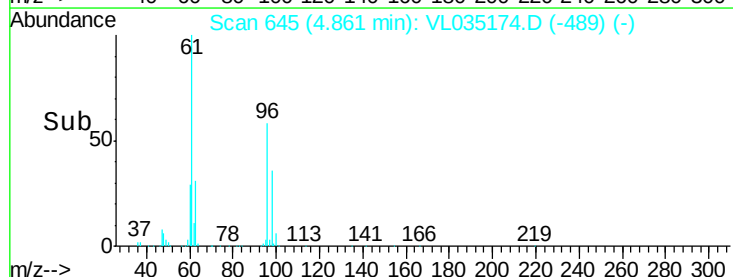
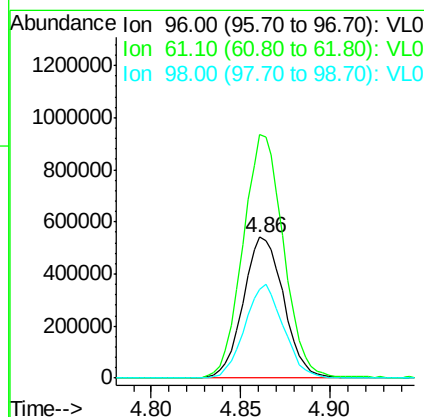
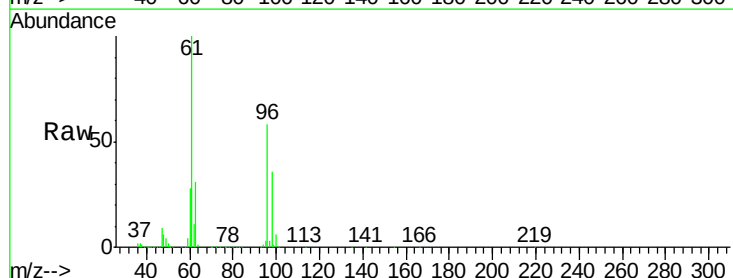
RT: 4.86 min Scan# 645

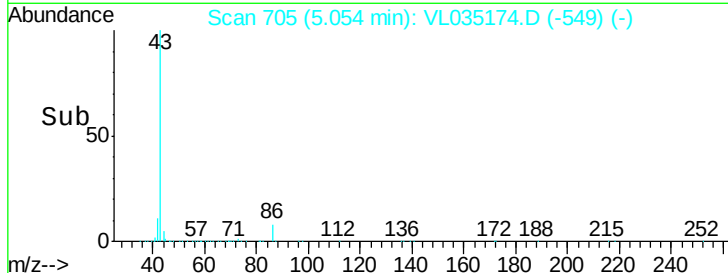
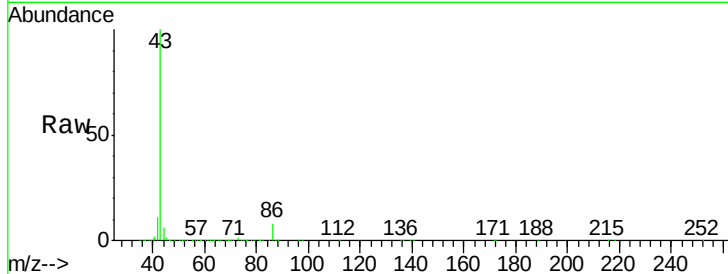
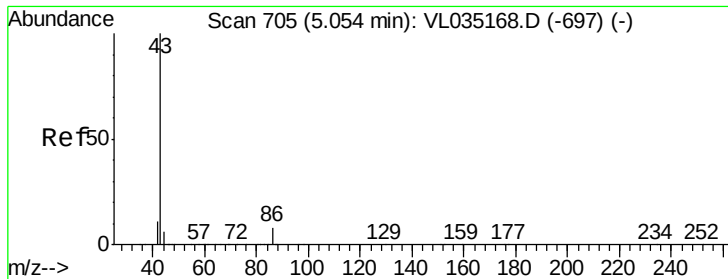
Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Tgt Ion:	96	Resp:	857883
Ion	Ratio	Lower	Upper
96	100		
61	172.9	136.5	204.7
98	63.0	47.5	71.3





#23

Vinyl Acetate

Concen: 14.783 ppbv

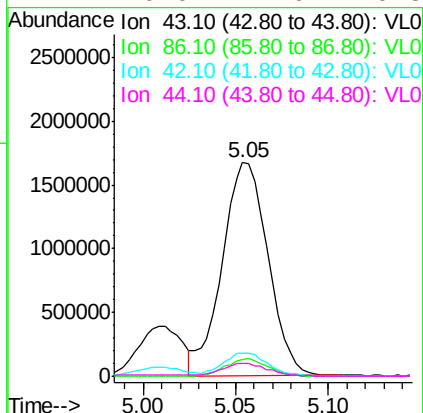
RT: 5.05 min Scan# 705

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	8.0	6.2	9.2	
42	10.9	9.1	13.7	
44	6.0	4.6	6.8	



Instrument :

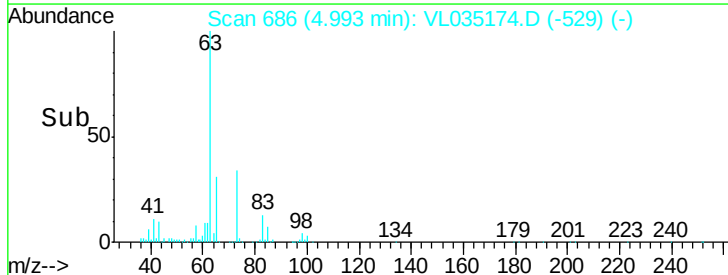
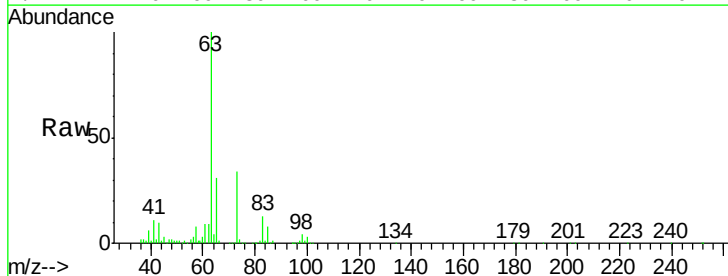
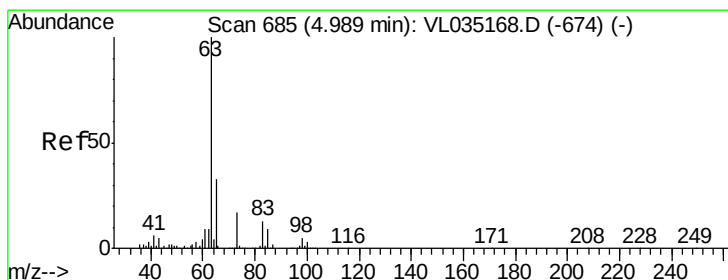
MSVOA_L

ClientSampleId :

VSTDIC015

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#24

1,1-Dichloroethane

Concen: 13.449 ppbv

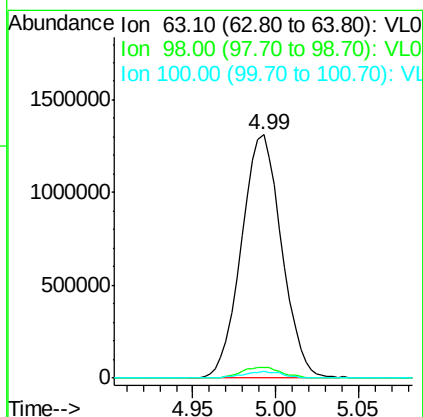
RT: 4.99 min Scan# 686

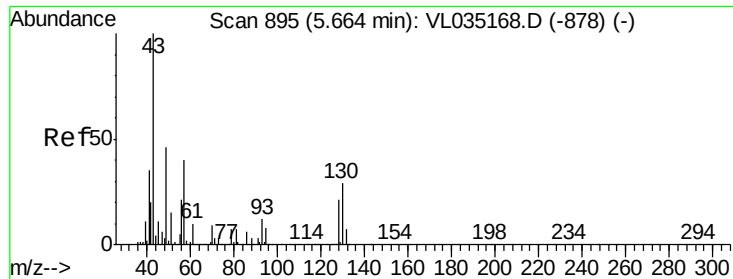
Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.3	2.4	7.1	
100	2.7	1.4	4.0	





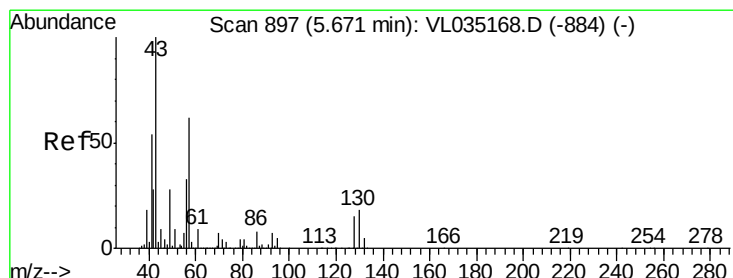
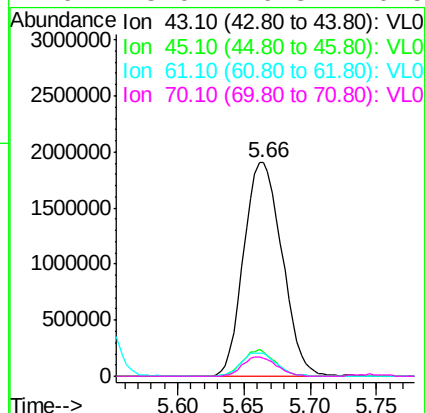
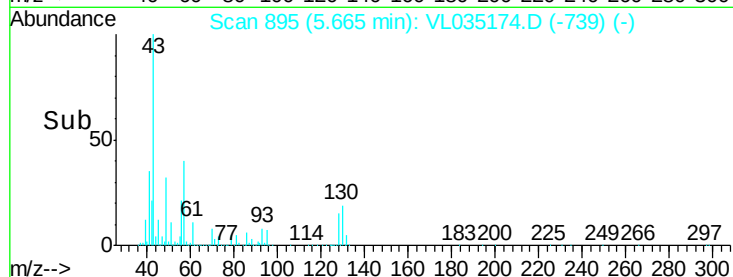
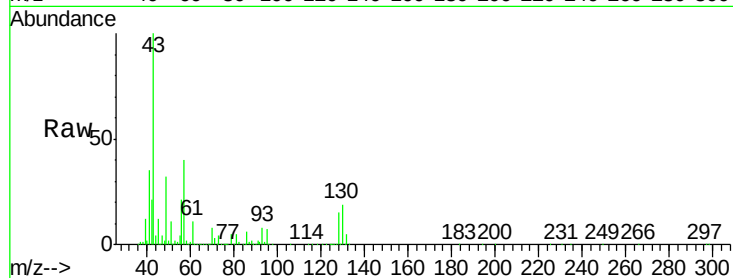
#25
Ethyl Acetate
Concen: 13.316 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	43	Resp	3837611
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.5	12.7
61	10.1	8.1	12.1
70	8.0	6.3	9.5

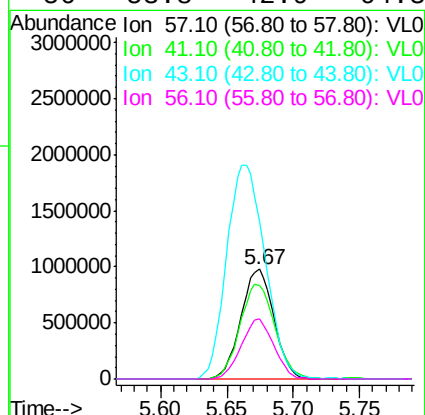
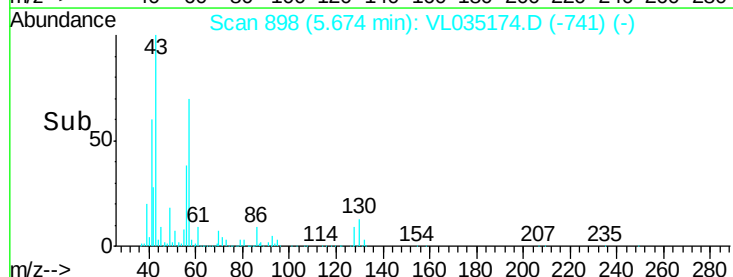
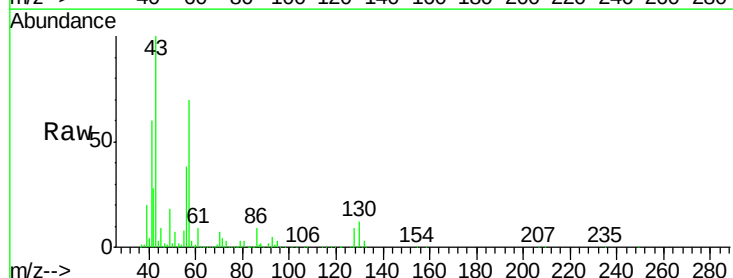
Manual Integrations
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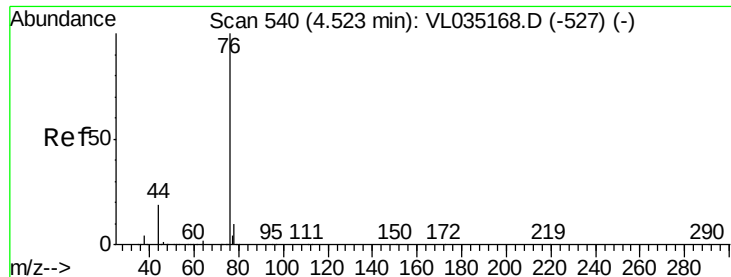
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#26
Hexane
Concen: 13.040 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion	57	Resp	1697502
Ion	Ratio	Lower	Upper
57	100		
41	91.5	72.9	109.3
43	226.9	179.5	269.3
56	53.8	42.9	64.3





#27

Carbon Disulfide

Concen: 16.715 ppbv

RT: 4.52 min Scan# 540

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2322278

Ion Ratio Lower Upper

76 100

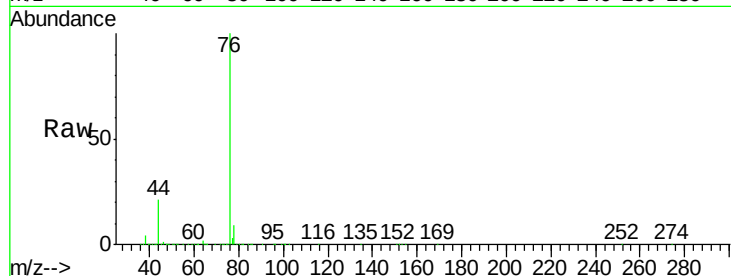
44 18.9 14.9 22.3

78 9.5 7.5 11.3

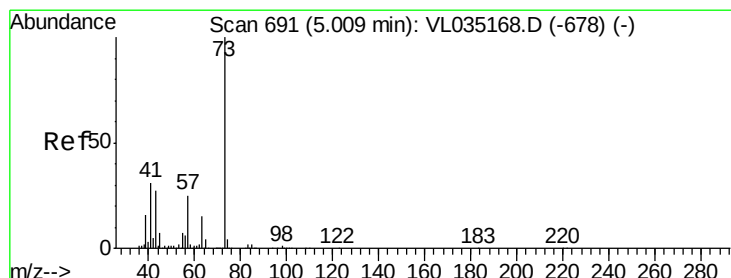
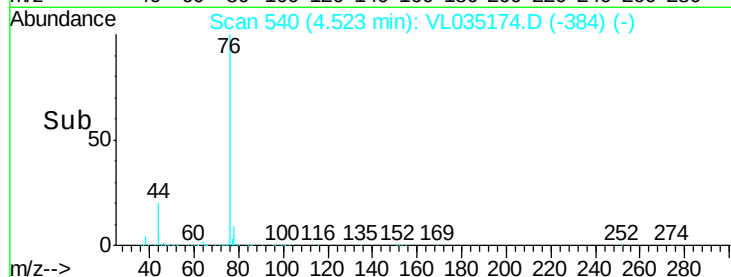
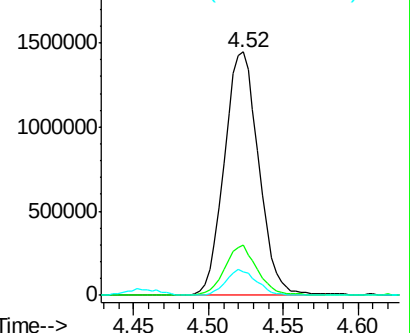
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 14.416 ppbv

RT: 5.01 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL035174.D

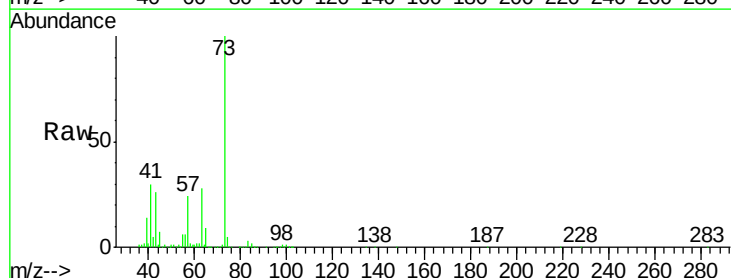
Acq: 8 Jul 2020 6:28

Tgt Ion: 73 Resp: 2641190

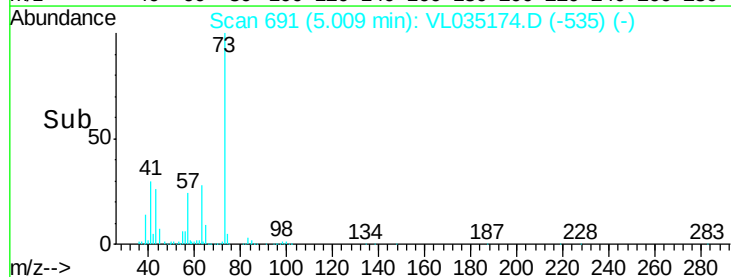
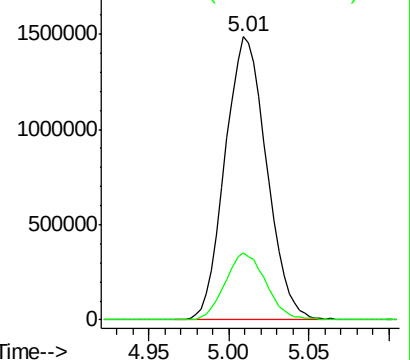
Ion Ratio Lower Upper

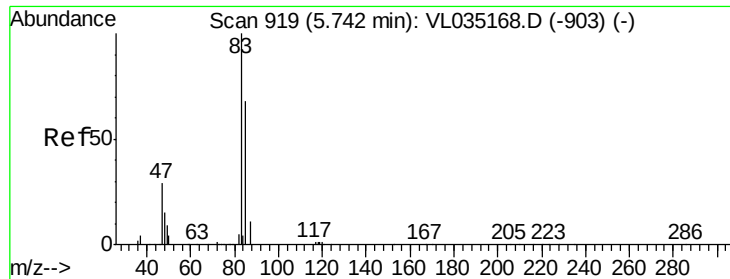
73 100

57 23.4 18.1 27.1



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





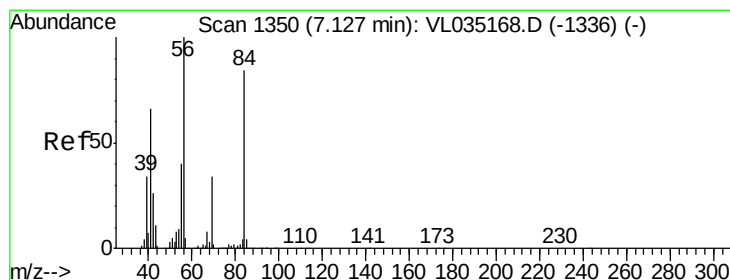
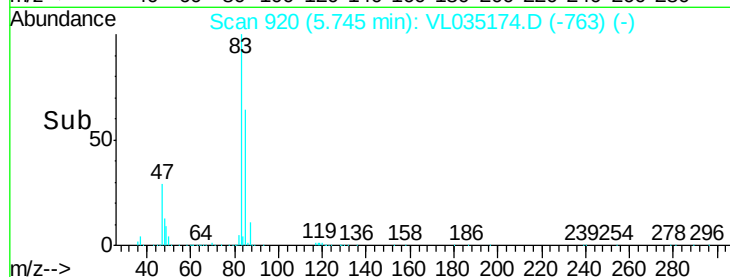
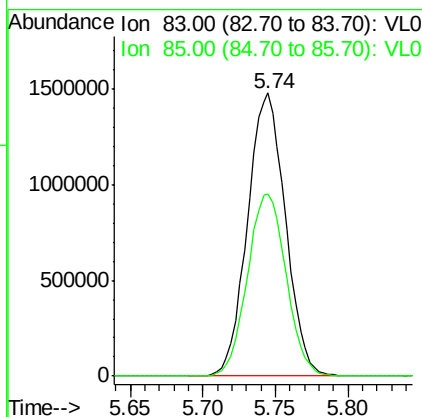
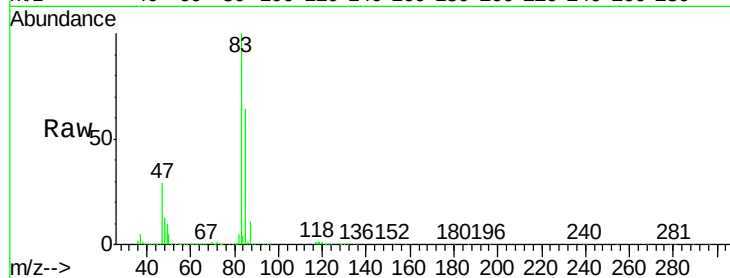
#29
Chloroform
Concen: 13.191 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2691850
Ion Ratio Lower Upper
83 100
85 64.3 54.3 81.5

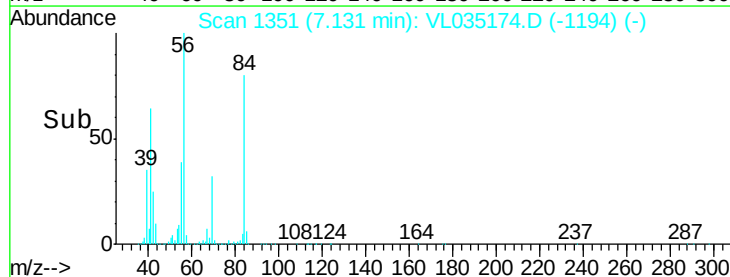
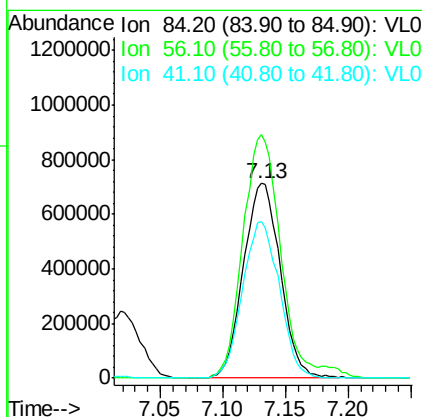
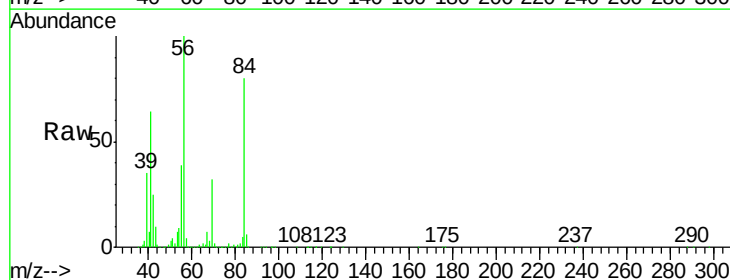
Manual Integrations
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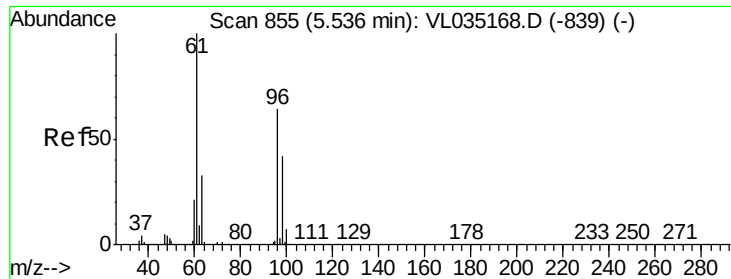
MMDadoda
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#30
Cyclohexane
Concen: 15.706 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion: 84 Resp: 1462156
Ion Ratio Lower Upper
84 100
56 129.5 105.6 158.4
41 80.4 64.9 97.3





#31

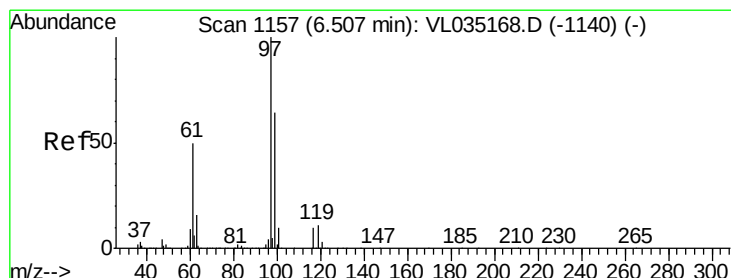
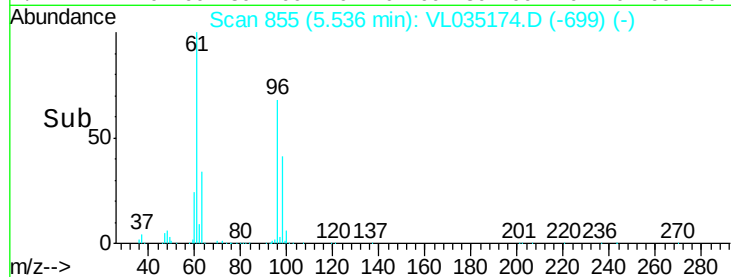
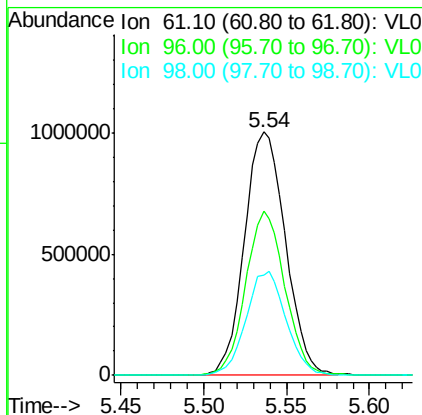
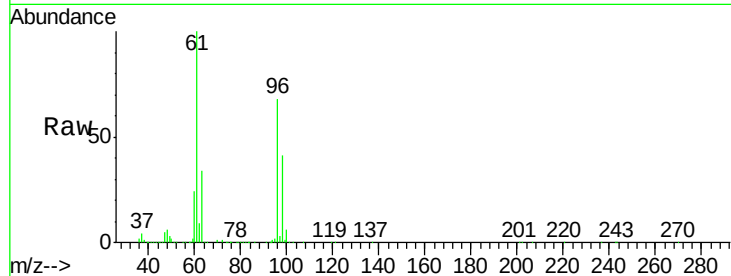
cis-1,2-Dichloroethene
Concen: 14.505 ppbv
RT: 5.54 min Scan# 855
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.6	51.3	76.9
98	41.3	33.8	50.8

Manual Integrations
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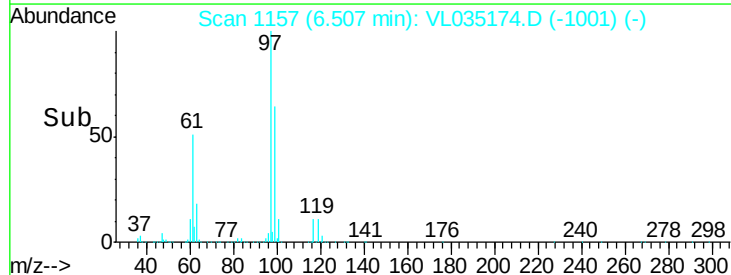
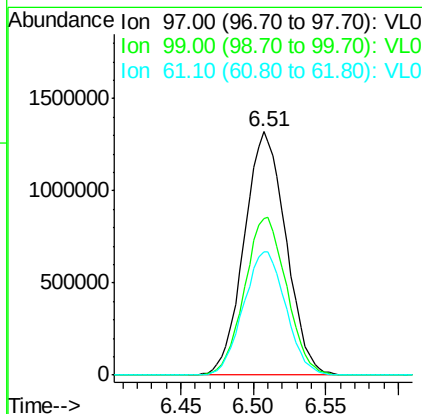
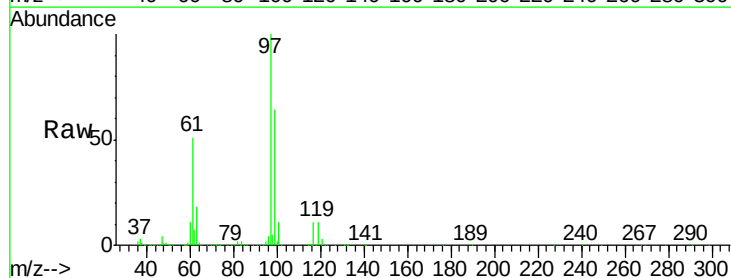
MMDadoda
7/9/2020 12:02:40 PM

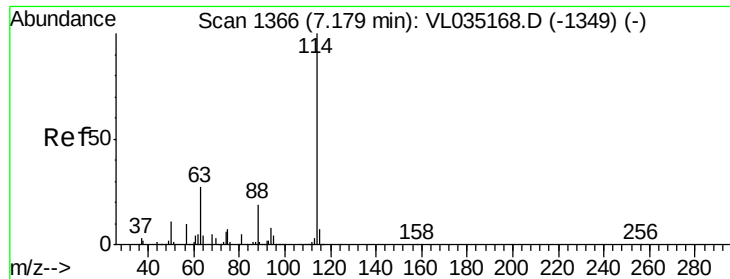


#32

1,1,1-Trichloroethane
Concen: 13.947 ppbv
RT: 6.51 min Scan# 1157
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.2	76.8
61	51.5	40.9	61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 3133561

Ion Ratio Lower Upper

114 100

63 28.3 22.0 33.0

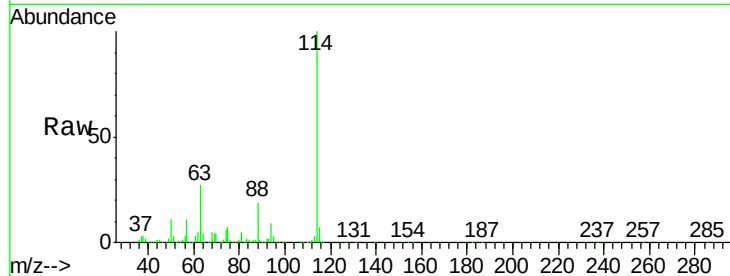
88 19.9 15.4 23.0

Manual Integrations

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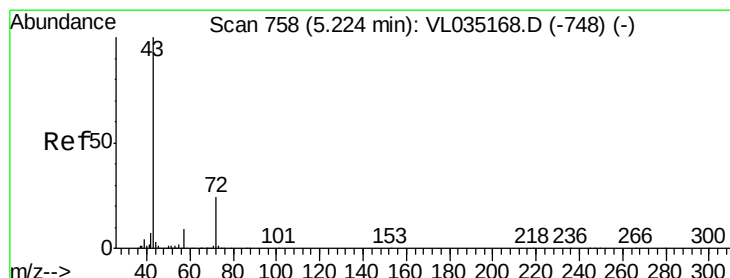
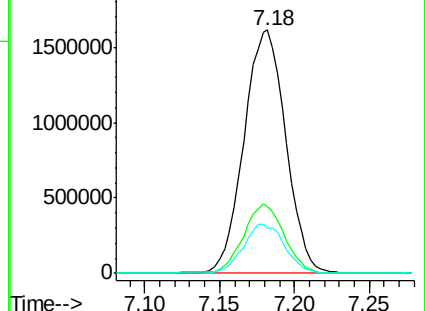
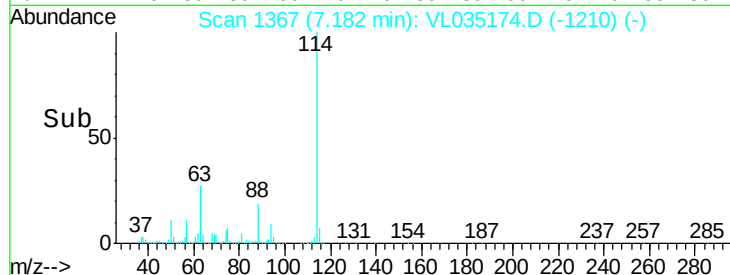
7/9/2020 12:02:40 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 13.665 ppbv

RT: 5.23 min Scan# 759

Delta R.T. 0.00 min

Lab File: VL035174.D

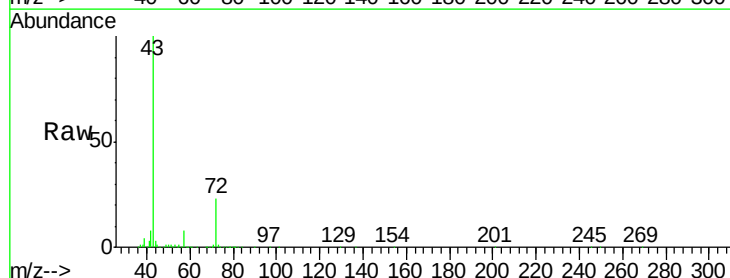
Acq: 8 Jul 2020 6:28

Tgt Ion: 43 Resp: 2422748

Ion Ratio Lower Upper

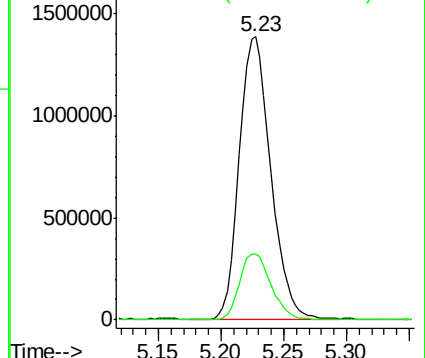
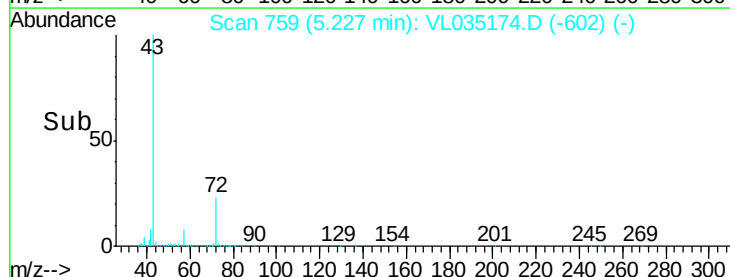
43 100

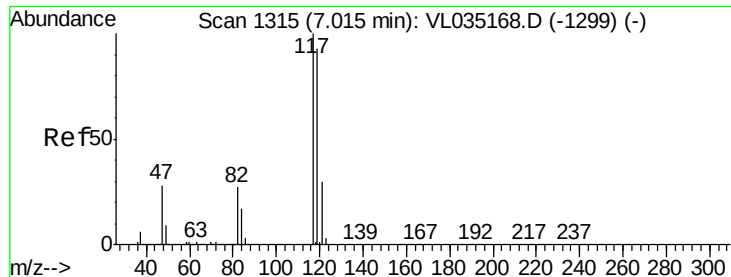
72 23.5 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 14.565 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2745841

Ion Ratio Lower Upper

117 100

119 96.8 74.8 112.2

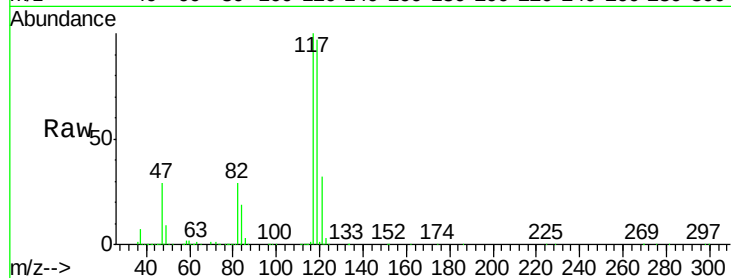
121 32.1 24.2 36.2

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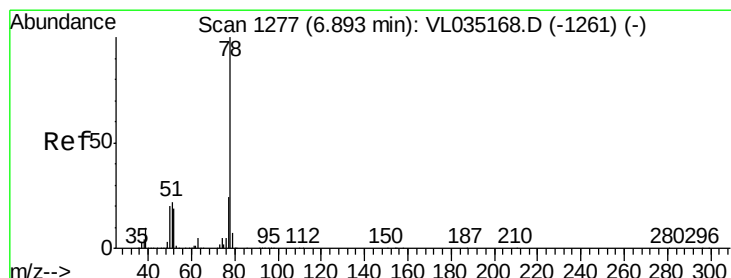
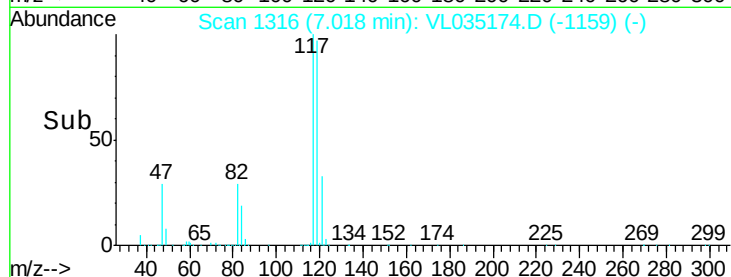
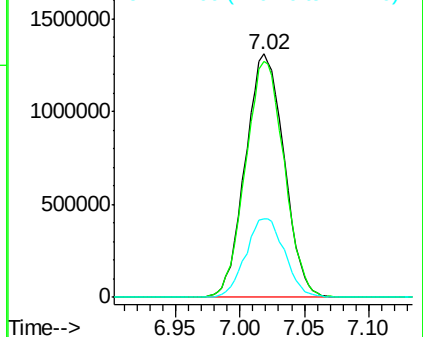
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.024 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

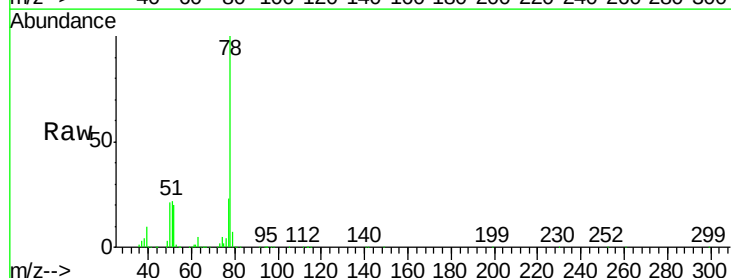
Tgt Ion: 78 Resp: 3363768

Ion Ratio Lower Upper

78 100

77 23.1 19.3 28.9

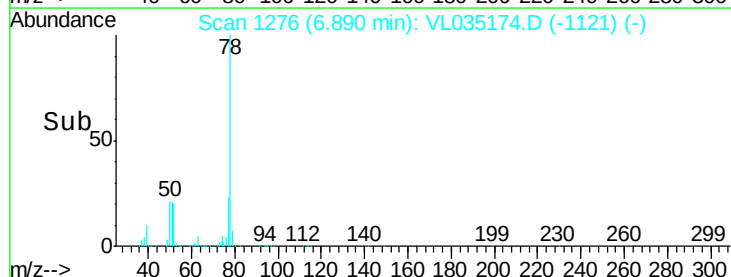
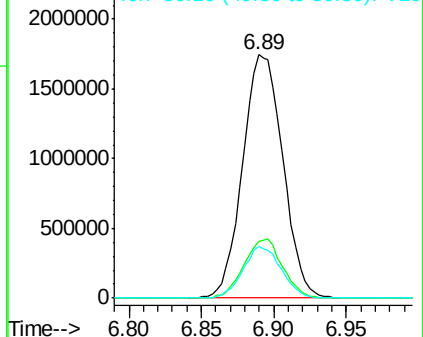
50 21.4 16.0 24.0

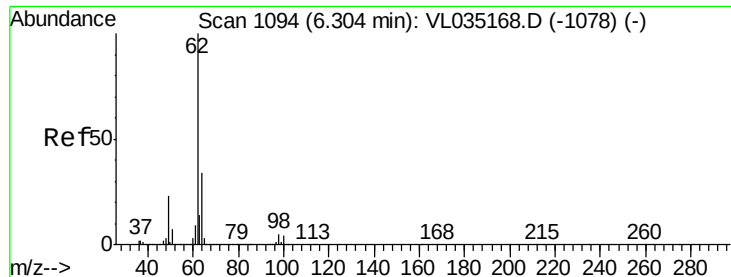


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





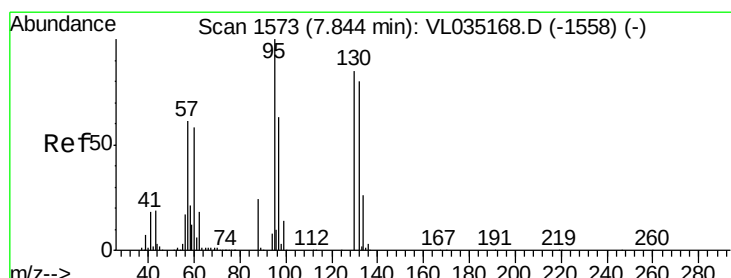
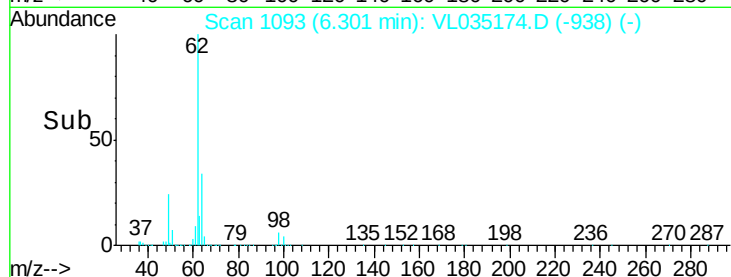
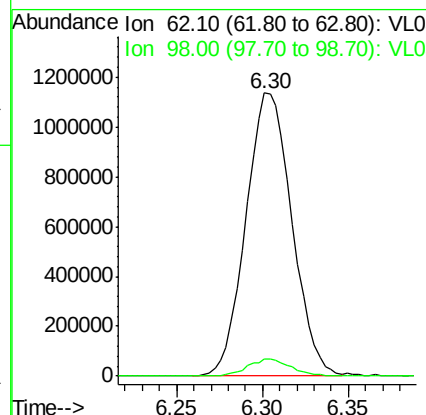
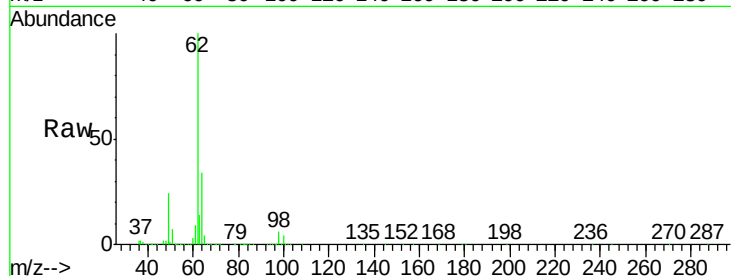
#37
1,2-Dichloroethane
Concen: 13.774 ppbv
RT: 6.30 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.6	6.8

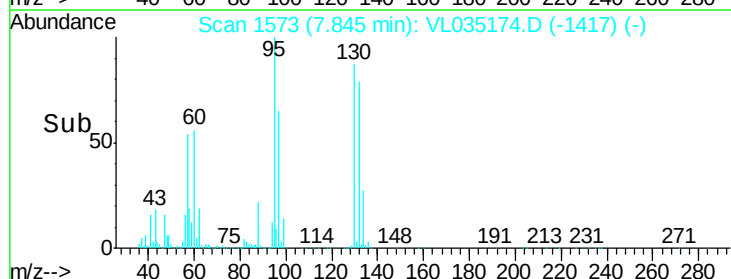
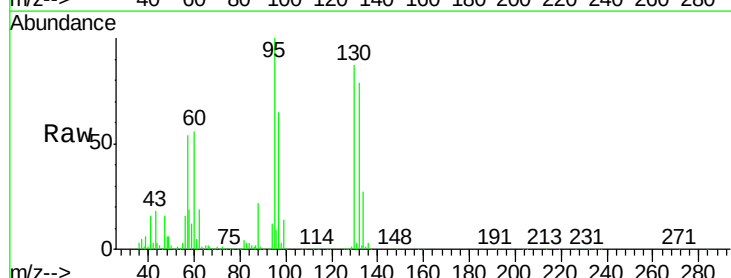
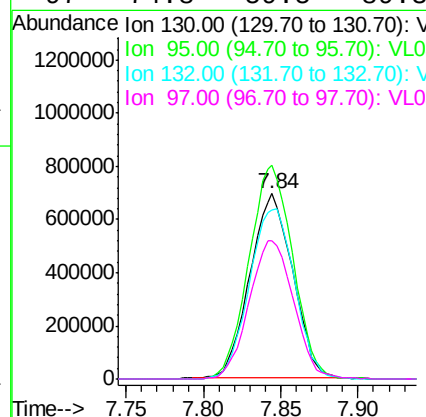
Manual Integrations
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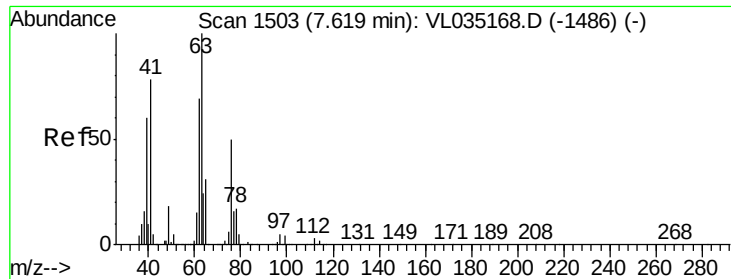
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#38
Trichloroethene
Concen: 14.252 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion	Ratio	Lower	Upper
130	100		
95	115.6	93.8	140.8
132	91.7	75.0	112.4
97	74.8	59.5	89.3





#39

1,2-Dichloropropane

Concen: 14.218 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1330499

Ion Ratio Lower Upper

63 100

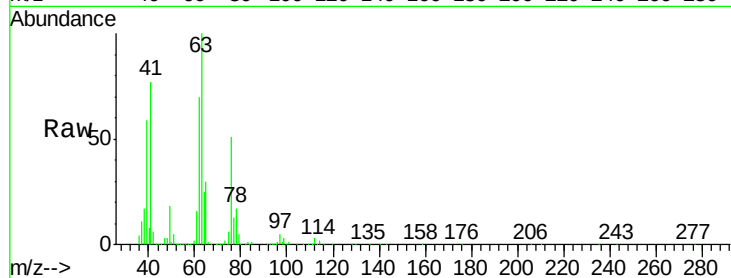
41 76.8 62.6 94.0

62 69.8 55.0 82.6

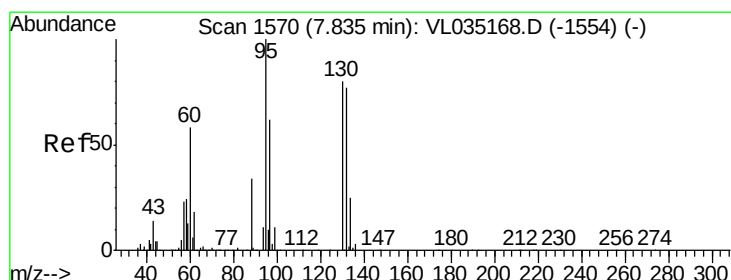
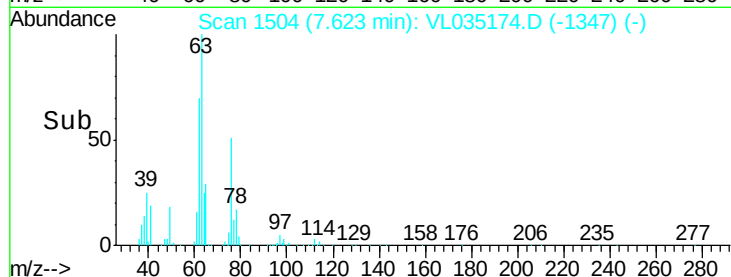
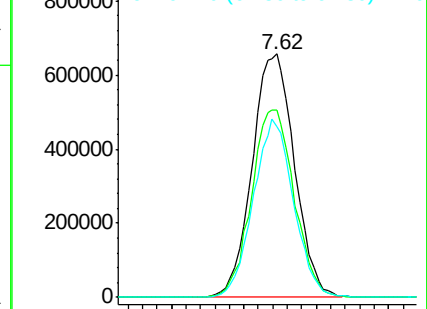
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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 14.182 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Tgt Ion: 88 Resp: 537168

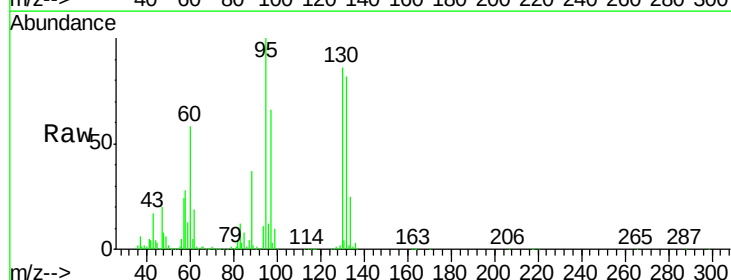
Ion Ratio Lower Upper

88 100

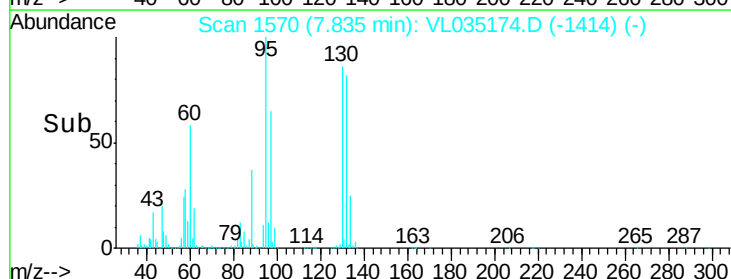
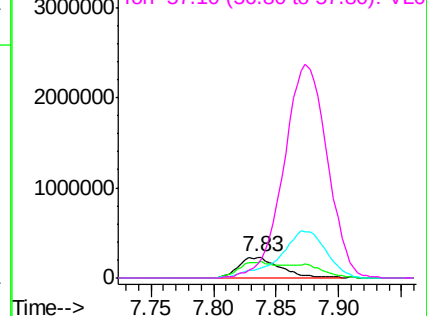
58 128.4 100.2 150.4

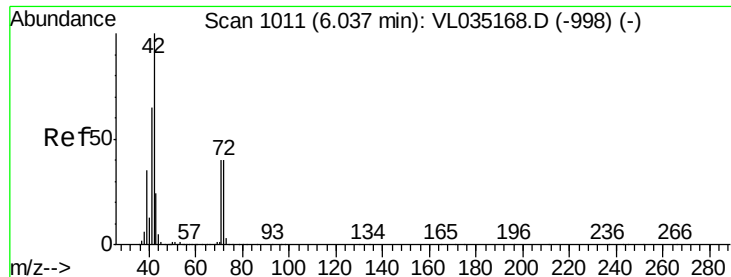
43 254.0 199.8 299.8

57 1066.5 869.5 1304.3



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 14.741 ppbv

RT: 6.04 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1330794

Ion Ratio Lower Upper

42 100

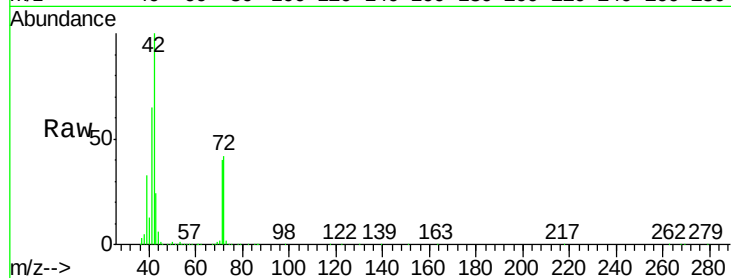
72 41.8 33.4 50.2

71 40.8 31.9 47.9

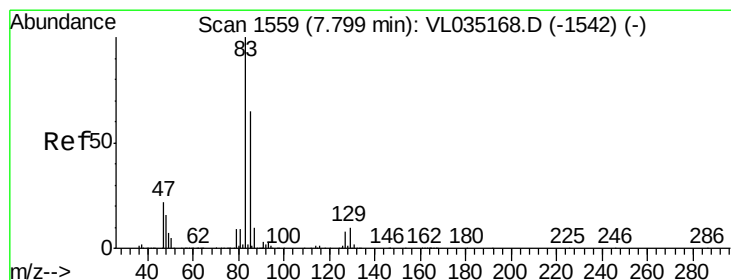
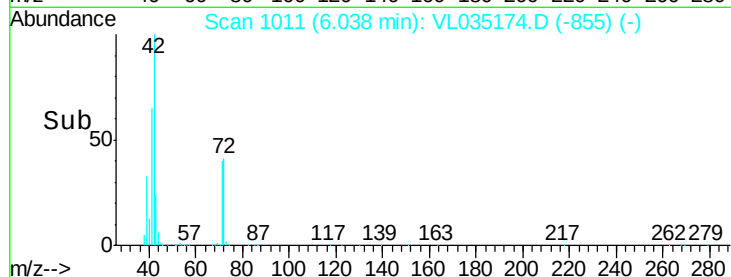
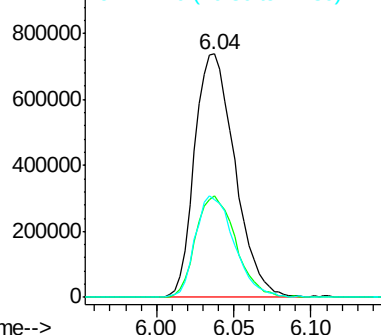
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 14.671 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

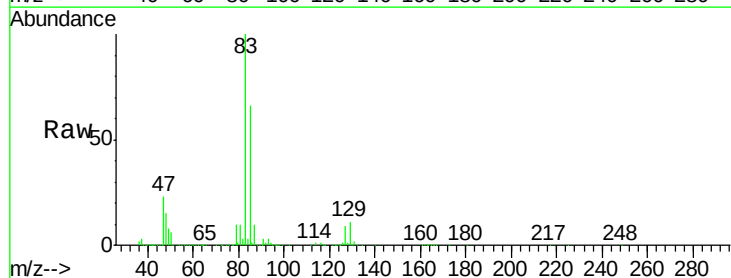
Tgt Ion: 83 Resp: 2910105

Ion Ratio Lower Upper

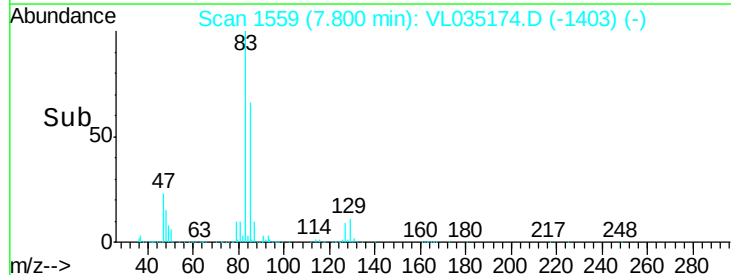
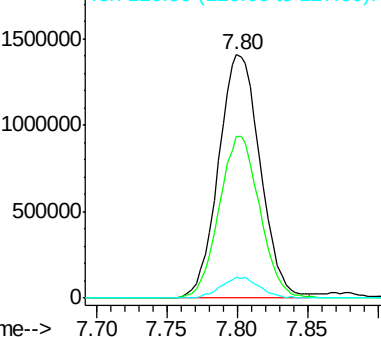
83 100

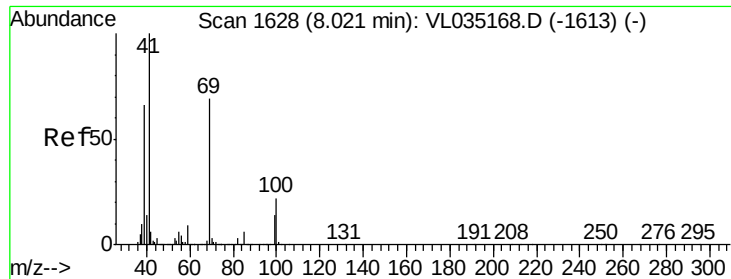
85 66.4 52.2 78.4

127 8.6 6.3 9.5



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





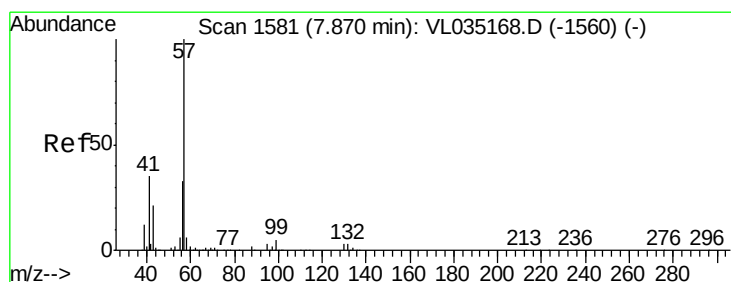
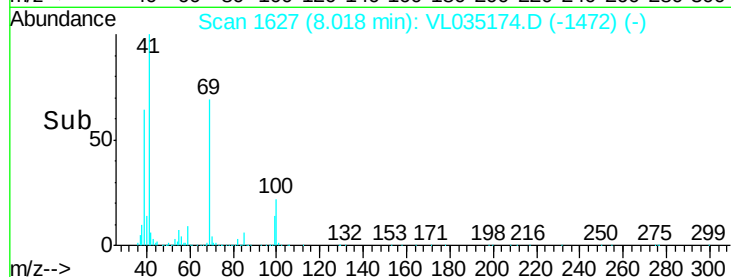
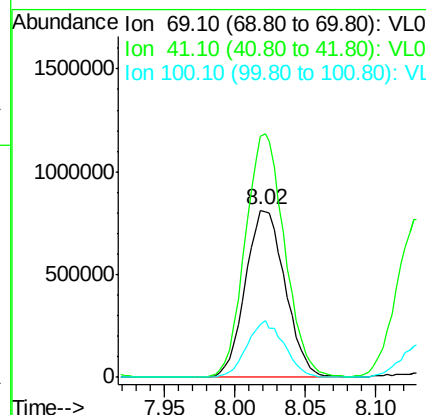
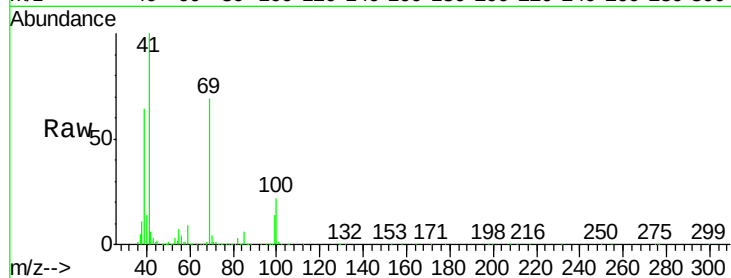
#43
Methyl Methacrylate
Concen: 15.815 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1606256
Ion Ratio Lower Upper
69 100
41 144.0 116.3 174.5
100 31.9 25.6 38.4

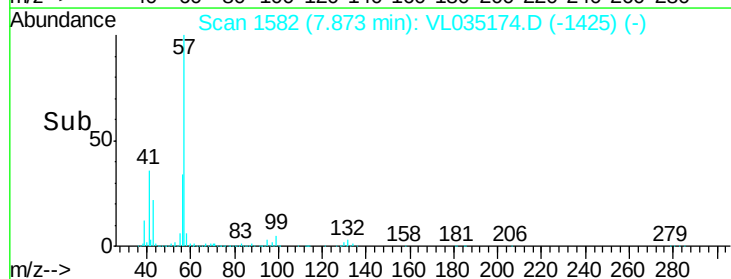
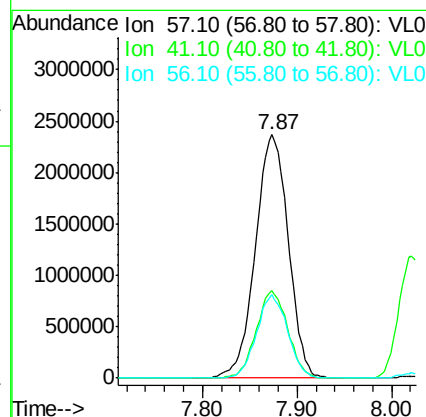
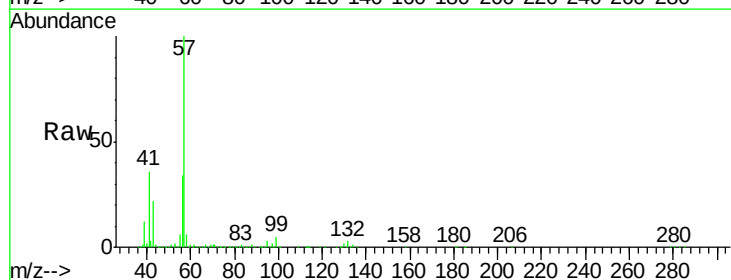
Manual Integrations
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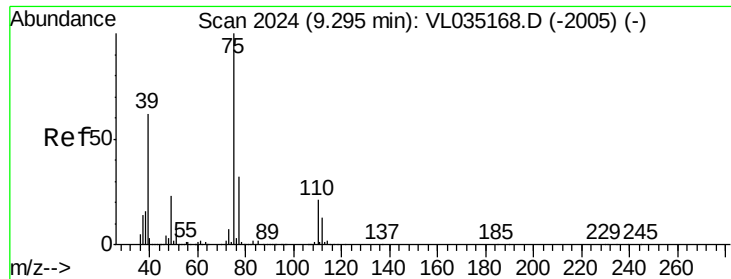
MMDadoda
7/9/2020 12:02:40 PM



#44
2,2,4-Trimethylpentane
Concen: 13.667 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion: 57 Resp: 5728801
Ion Ratio Lower Upper
57 100
41 34.3 27.0 40.6
56 32.3 25.5 38.3





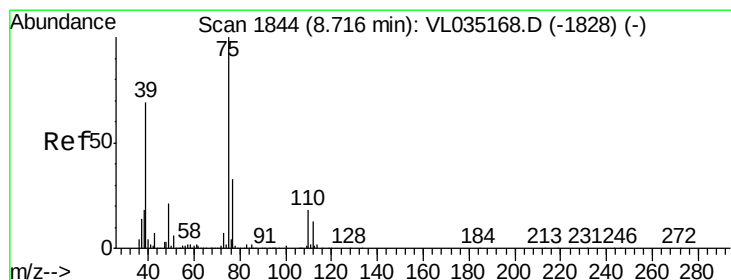
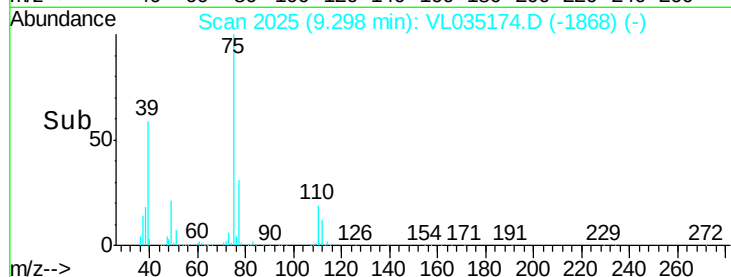
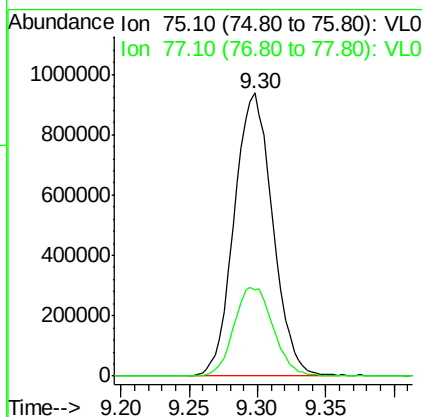
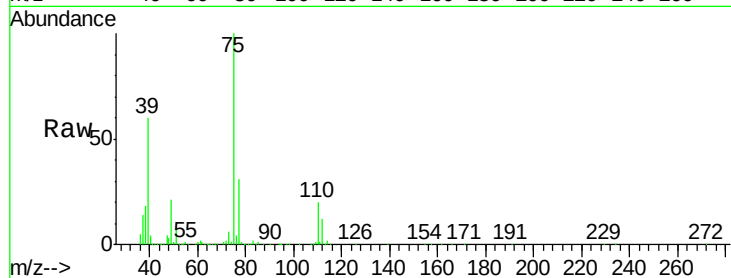
#45
t-1,3-Dichloropropene
Concen: 18.500 ppbv
RT: 9.30 min Scan# 2025
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 75 Resp: 1834453
Ion Ratio Lower Upper
75 100
77 30.7 25.8 38.8

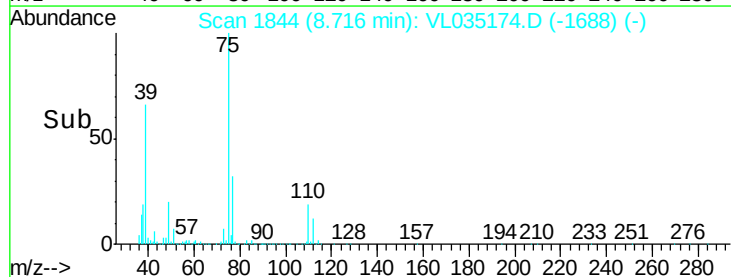
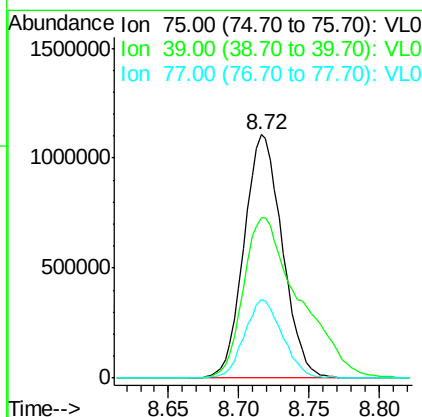
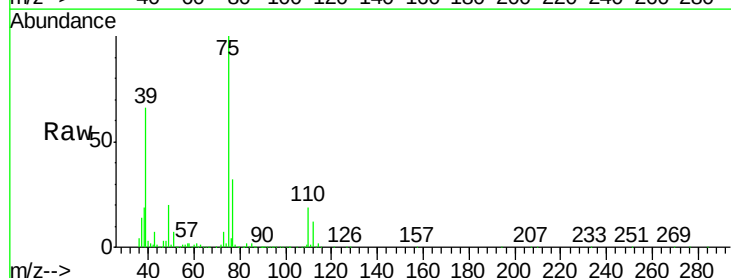
Manual Integrations
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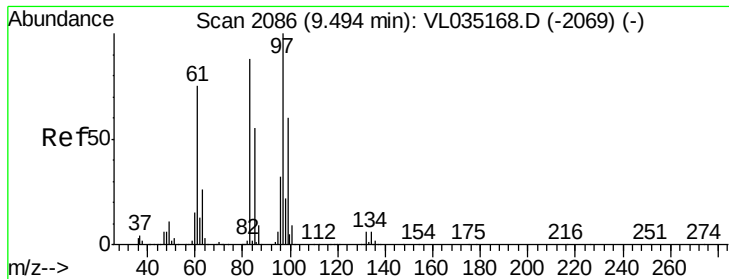
MMDadoda
7/9/2020 12:02:40 PM



#46
cis-1,3-Dichloropropene
Concen: 17.122 ppbv
RT: 8.72 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion: 75 Resp: 2105099
Ion Ratio Lower Upper
75 100
39 66.0 55.2 82.8
77 32.3 26.0 39.0





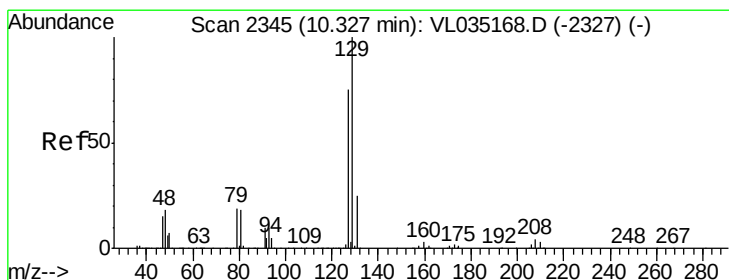
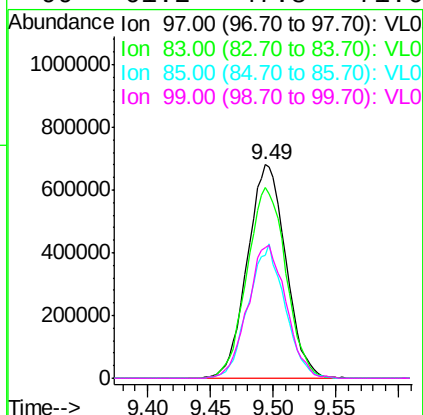
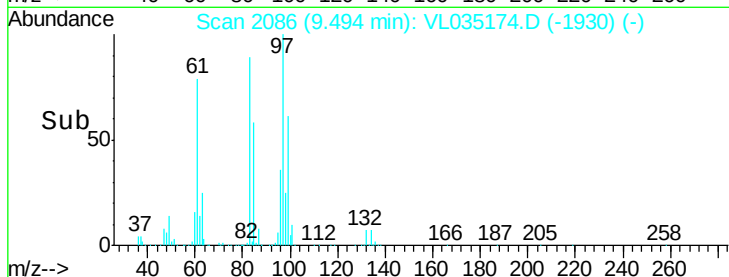
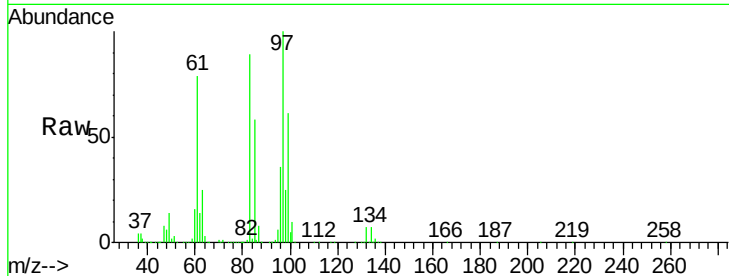
#47
 1,1,2-Trichloroethane
 Concen: 14.113 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	89.5	70.3	105.5	
85	57.5	44.3	66.5	
99	61.2	47.8	71.6	

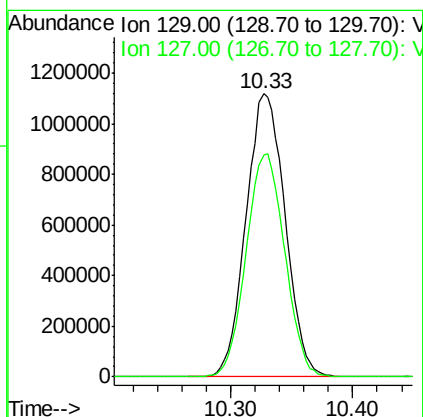
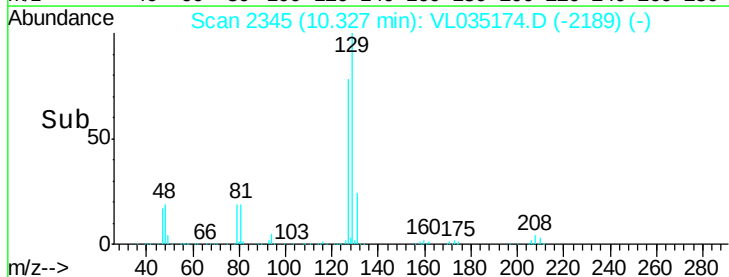
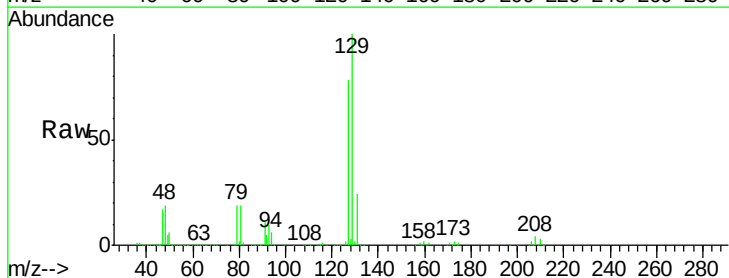
Manual Integrations
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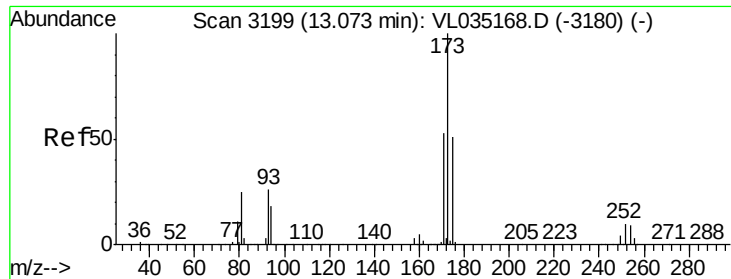
MMDadoda
 7/9/2020 12:02:40 PM



#48
 Dibromochloromethane
 Concen: 15.996 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.0	38.8	116.3	





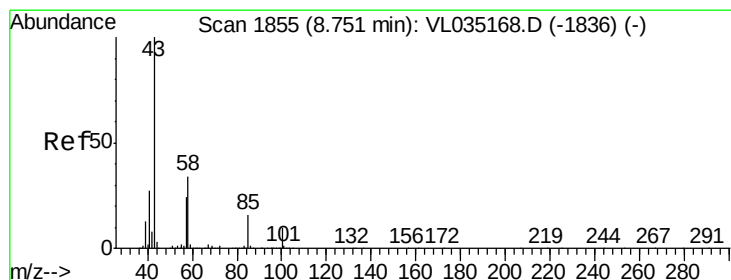
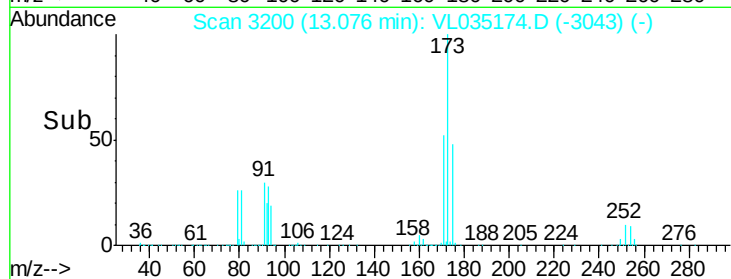
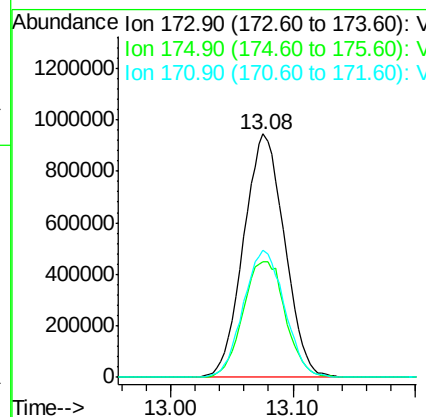
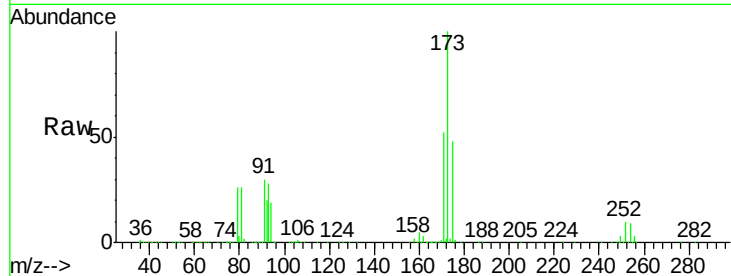
#49
Bromoform
Concen: 16.655 ppbv
RT: 13.08 min Scan# 3200
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 2193806
Ion Ratio Lower Upper
173 100
175 49.3 39.7 59.5
171 52.5 41.6 62.4

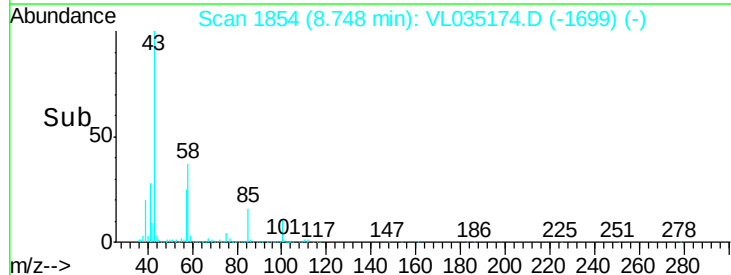
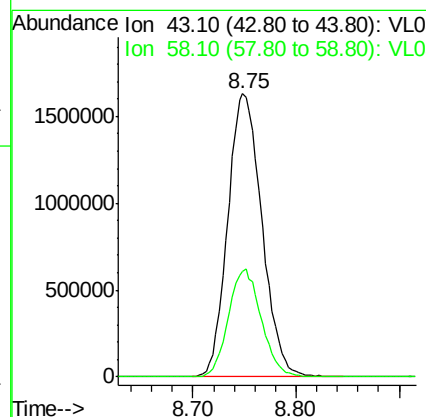
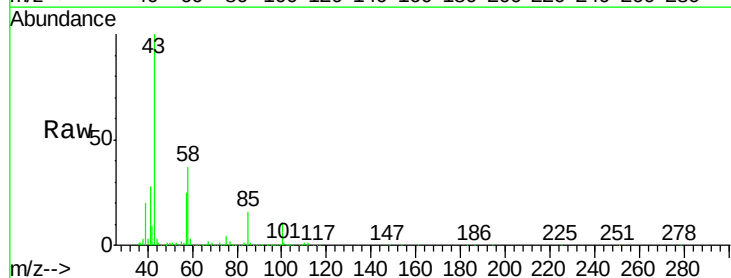
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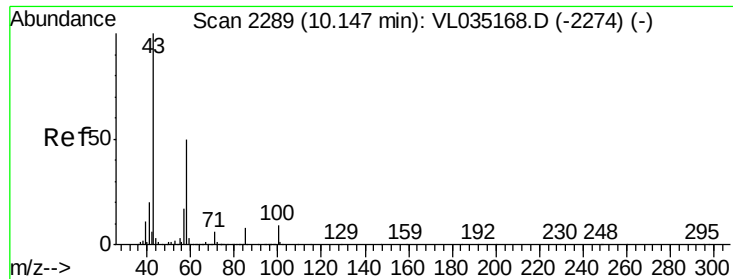
MMDadoda
7/9/2020 12:02:40 PM



#50
4-Methyl-2-Pentanone
Concen: 14.715 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion: 43 Resp: 3737127
Ion Ratio Lower Upper
43 100
58 36.9 29.4 44.2





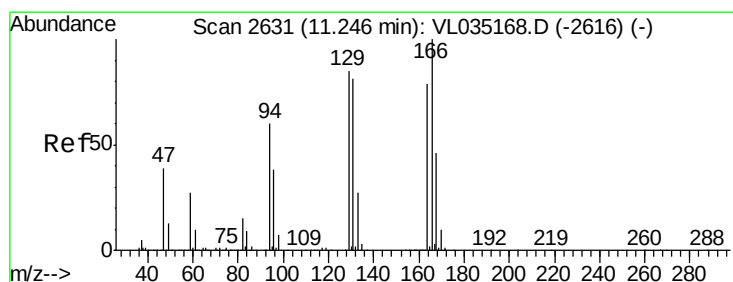
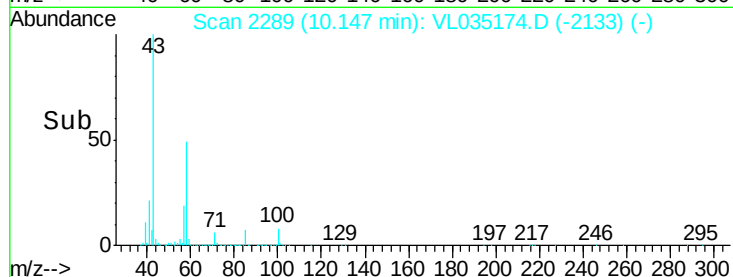
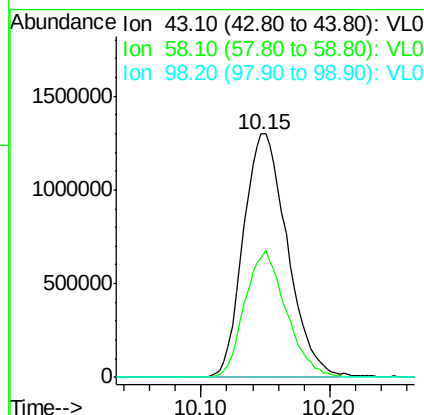
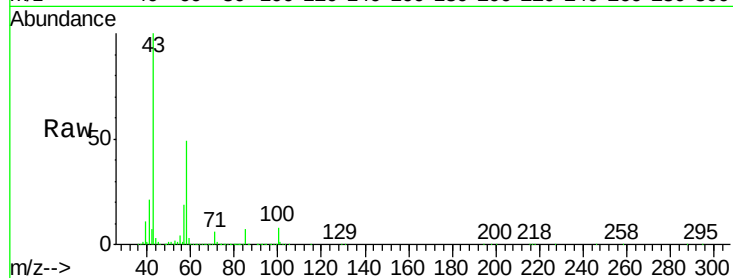
#51
2-Hexanone
Concen: 15.566 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3084019
Ion Ratio Lower Upper
43 100
58 49.3 39.4 59.0
98 0.4 0.3 0.5

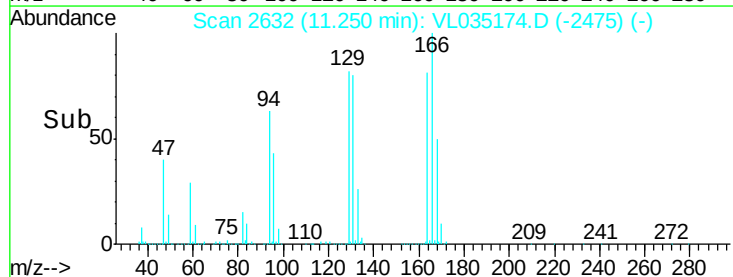
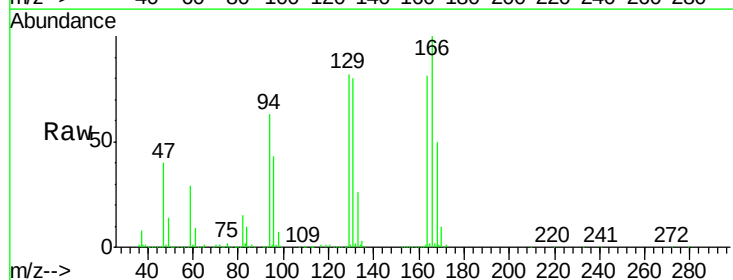
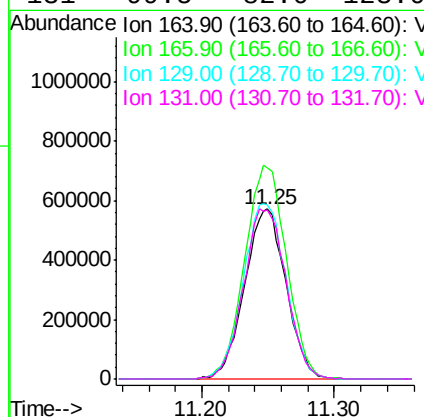
Manual Integrations
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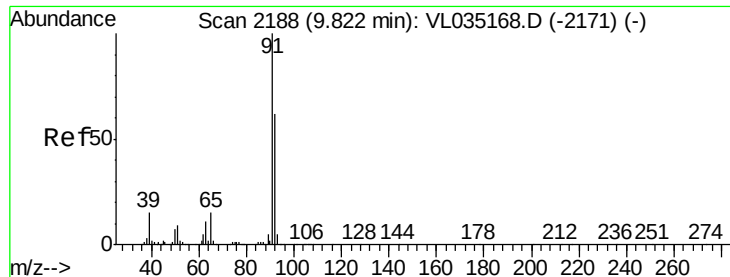
MMDadoda
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#52
Tetrachloroethene
Concen: 14.530 ppbv
RT: 11.25 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion: 164 Resp: 1236231
Ion Ratio Lower Upper
164 100
166 124.1 100.7 151.1
129 102.0 85.8 128.6
131 99.5 82.0 123.0





#53

Toluene

Concen: 15.336 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3936224

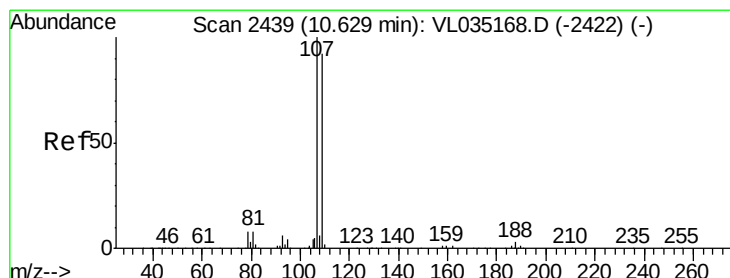
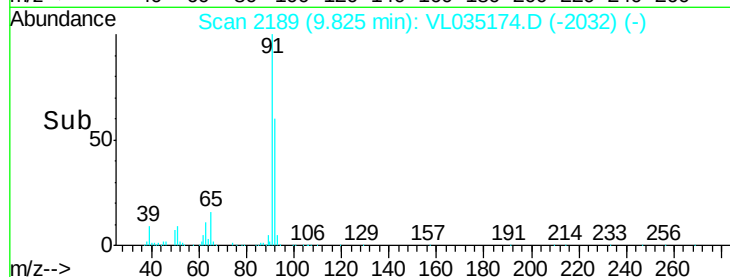
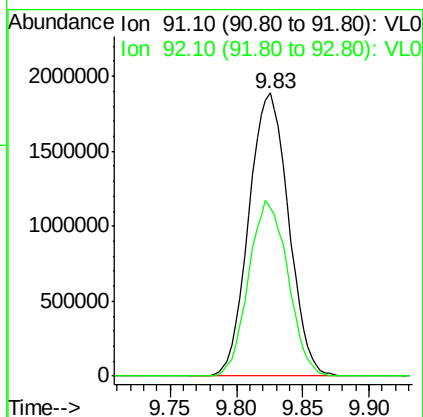
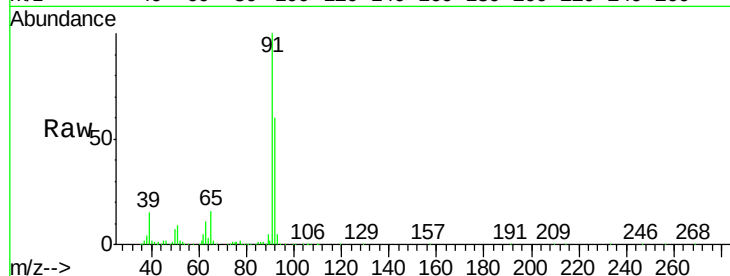
Ion Ratio Lower Upper

91 100

92 61.5 48.4 72.6

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 14.564 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. 0.01 min

Lab File: VL035174.D

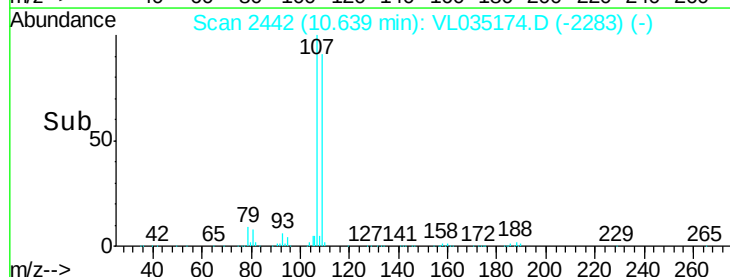
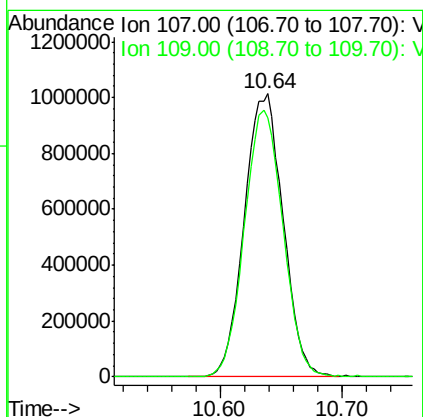
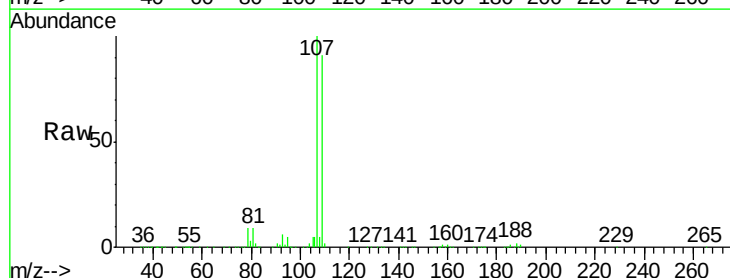
Acq: 8 Jul 2020 6:28

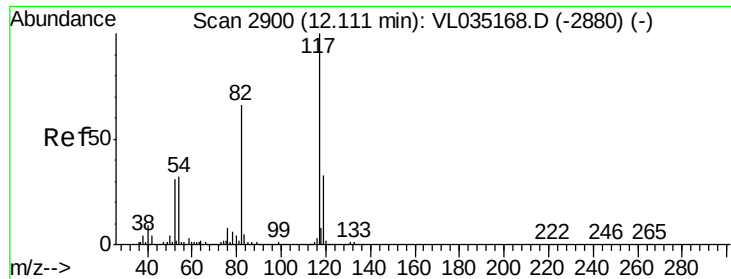
Tgt Ion: 107 Resp: 2223564

Ion Ratio Lower Upper

107 100

109 91.3 74.0 111.0





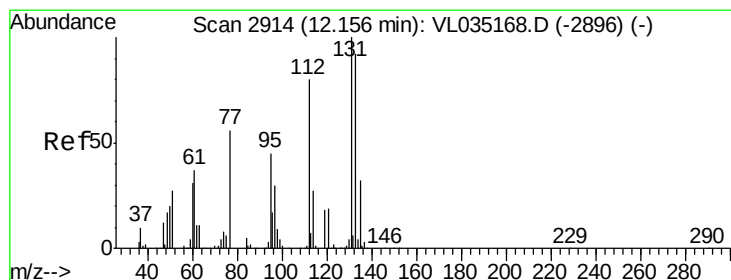
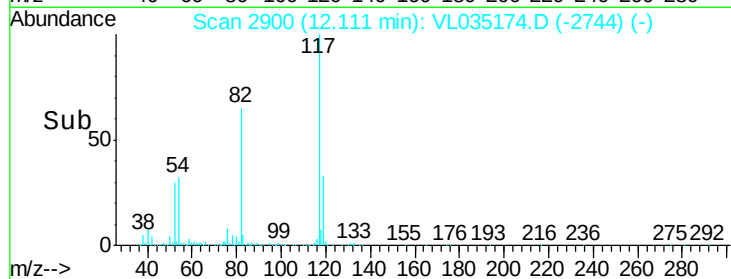
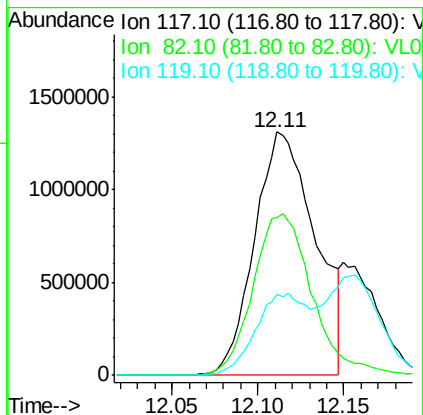
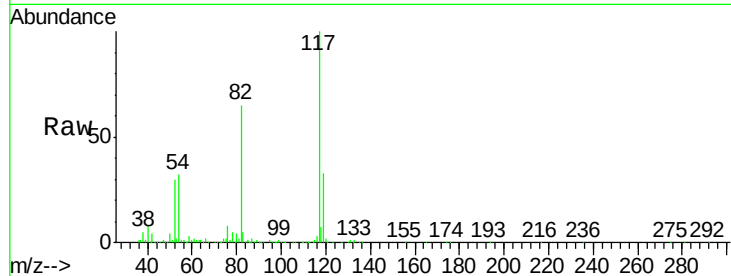
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.9	52.3	78.5
119	32.6	24.9	37.3

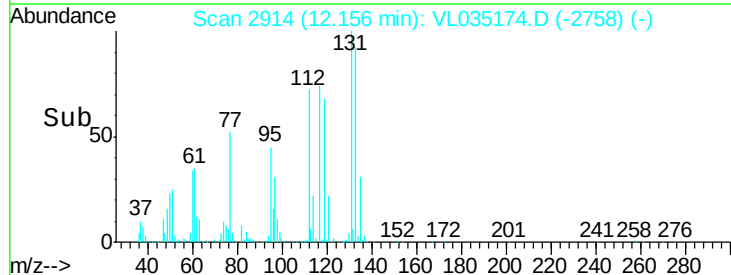
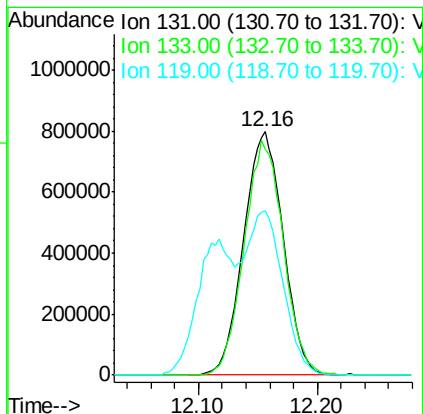
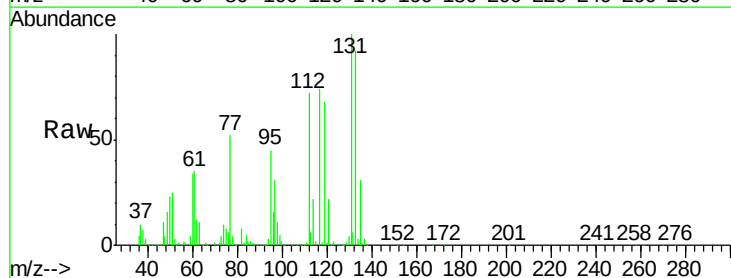
Manual Integrations
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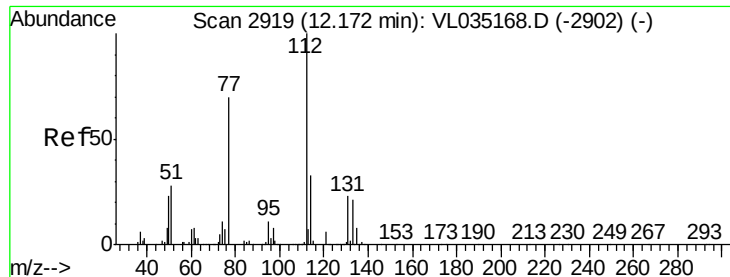
MMDadoda
7/9/2020 12:02:40 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 13.808 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.3	75.4	113.2
119	59.1	42.4	63.6





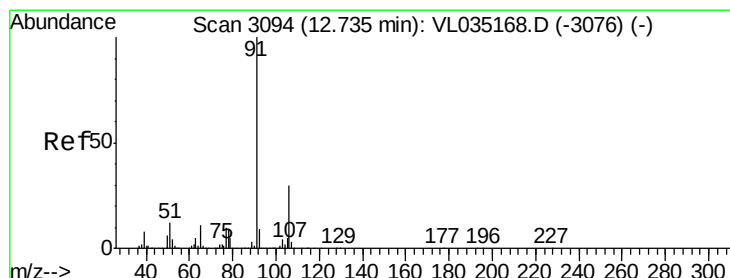
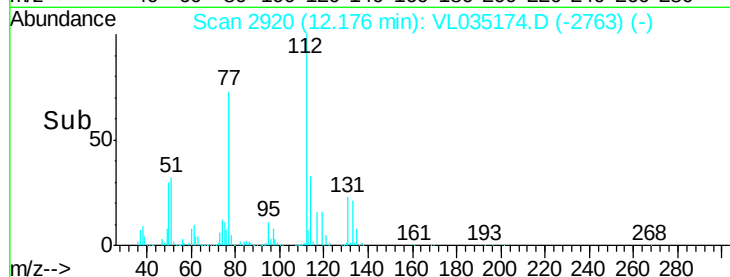
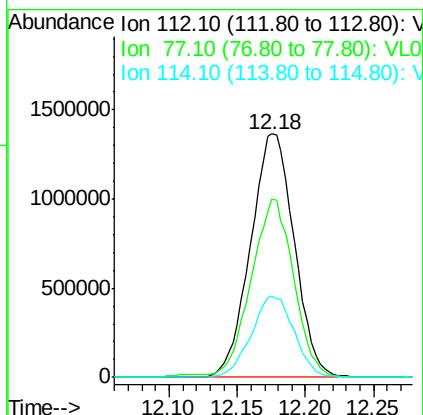
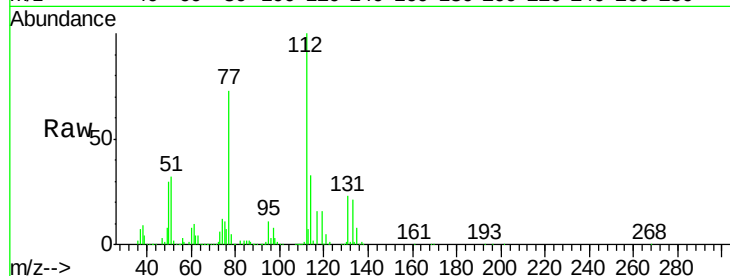
#57
Chlorobenzene
Concen: 12.754 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	73.0	57.0	85.4
114	33.2	30.2	37.0

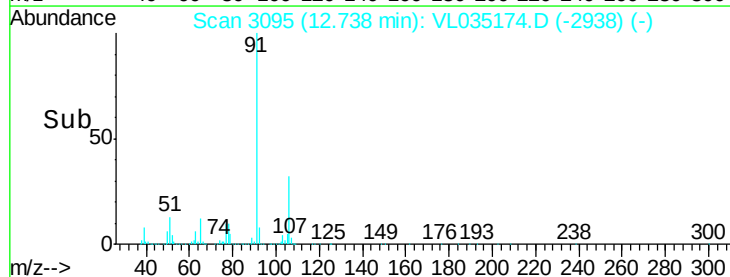
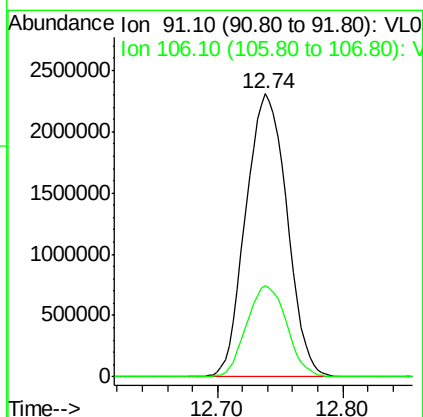
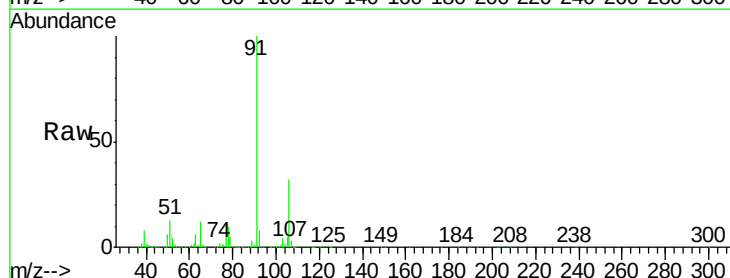
Manual Integrations
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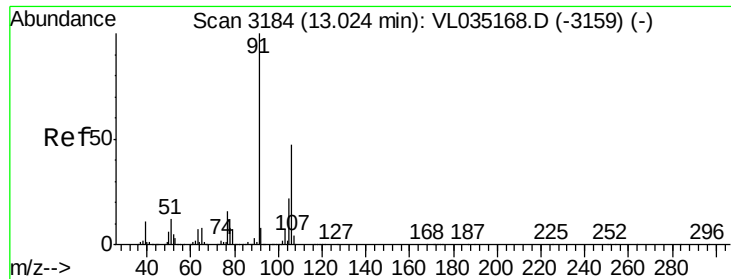
MMDadoda
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#58
Ethyl Benzene
Concen: 14.557 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.4	24.2	36.2





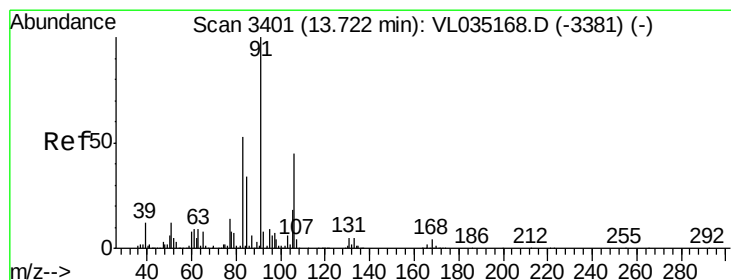
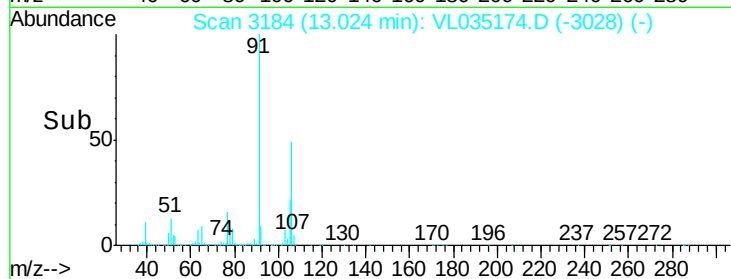
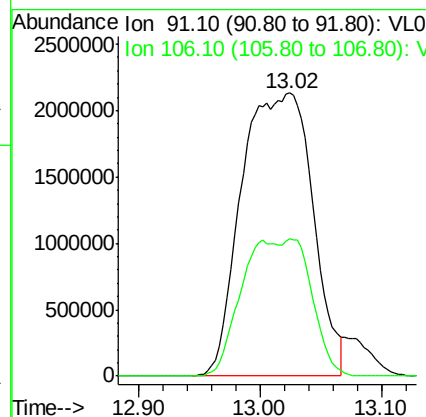
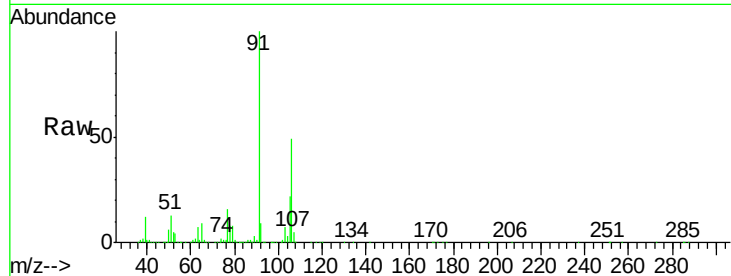
#59
m/p-Xylene
Concen: 27.022 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 8690335
Ion Ratio Lower Upper
91 100
106 47.3 36.2 54.2

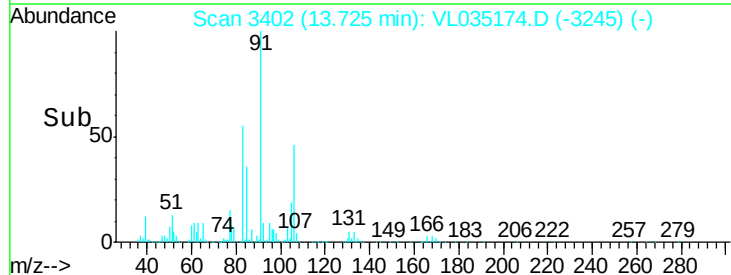
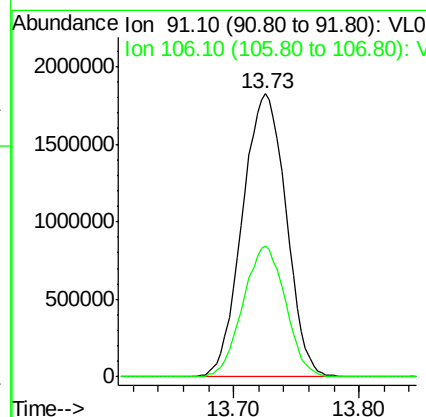
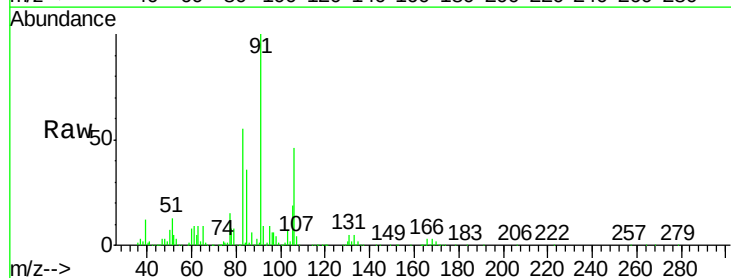
Manual Integrations
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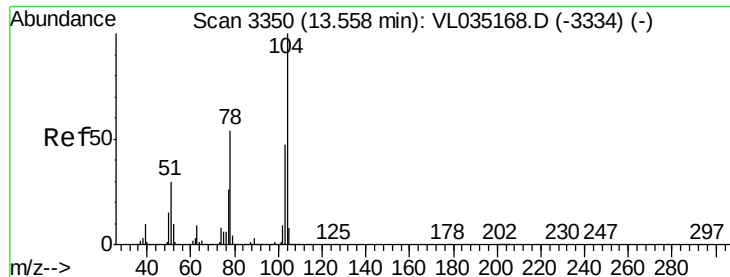
MMDadoda
7/9/2020 12:02:40 PM



#60
o-Xylene
Concen: 13.742 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL035174.D
Acq: 8 Jul 2020 6:28

Tgt Ion: 91 Resp: 4411720
Ion Ratio Lower Upper
91 100
106 45.2 22.1 66.3





#61

Stvrene

Concen: 16.048 ppbv

RT: 13.56 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3242460

Ion Ratio Lower Upper

104 100

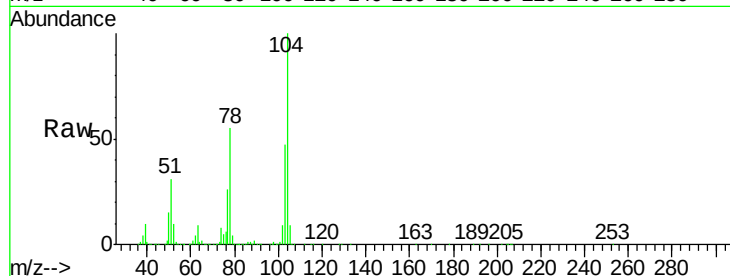
78 54.0 43.4 65.0

103 47.6 37.4 56.0

Manual Integrations
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MMDadoda

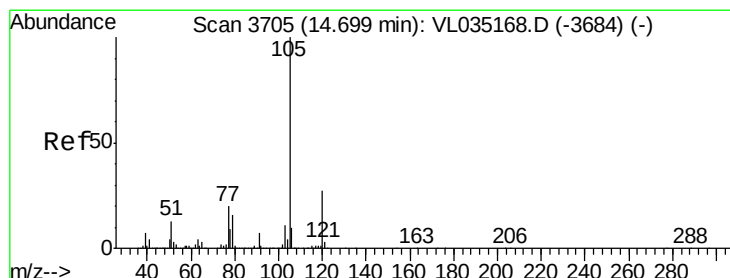
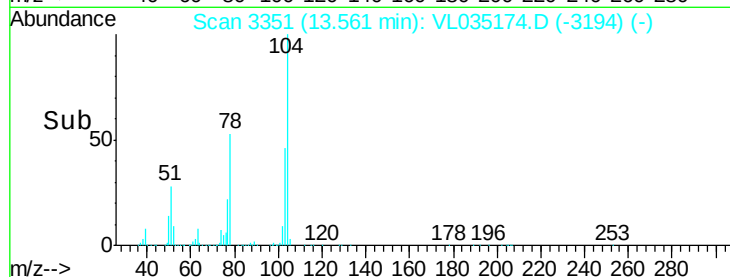
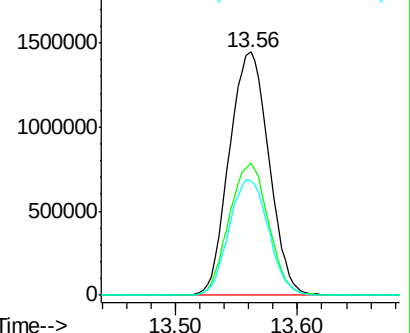
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 13.433 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. 0.00 min

Lab File: VL035174.D

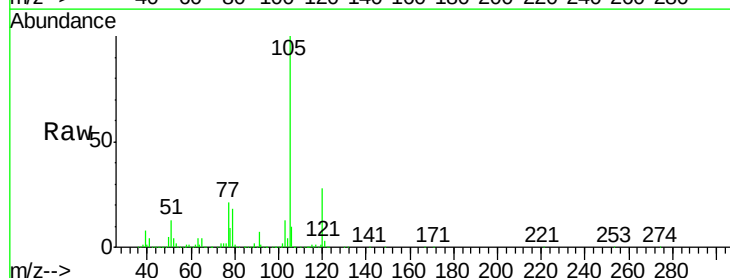
Acq: 8 Jul 2020 6:28

Tgt Ion:105 Resp: 6434496

Ion Ratio Lower Upper

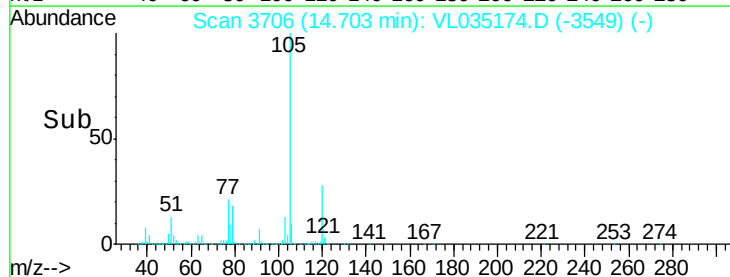
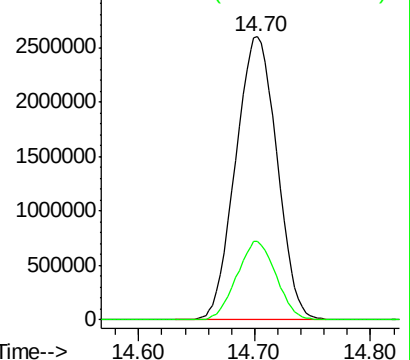
105 100

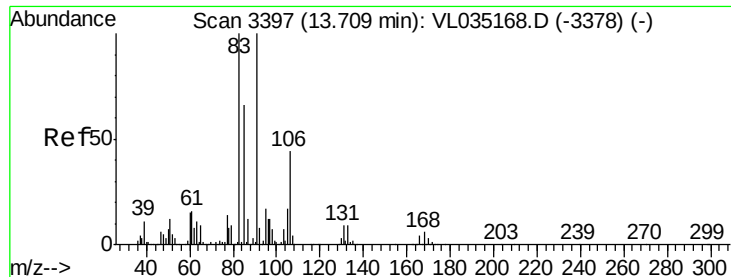
120 26.4 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





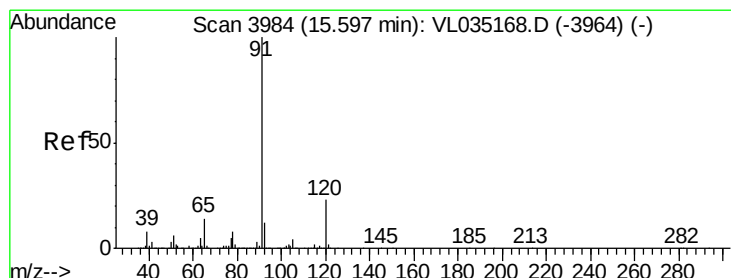
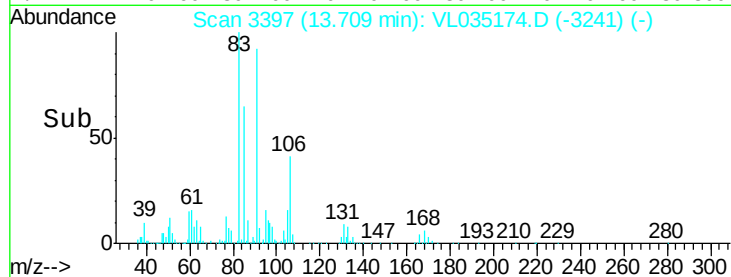
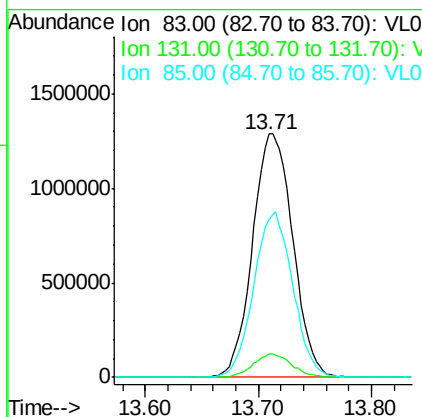
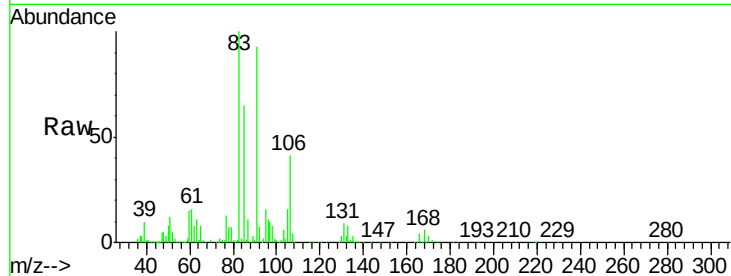
#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.237 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	83	Resp	3176002
Ion Ratio	100	Lower	Upper
83	100		
131	9.3	4.7	14.0
85	65.9	33.0	99.0

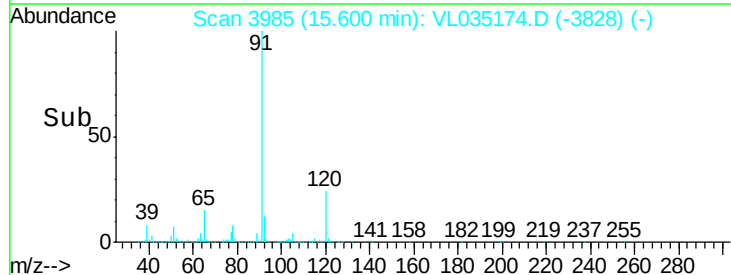
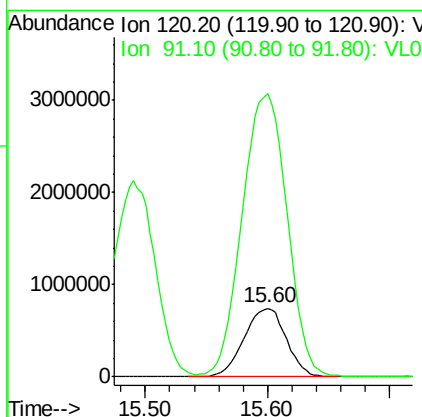
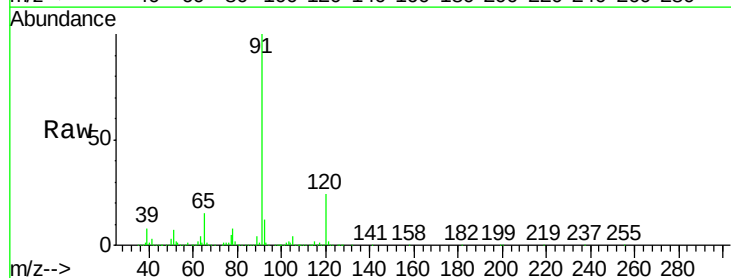
Manual Integrations
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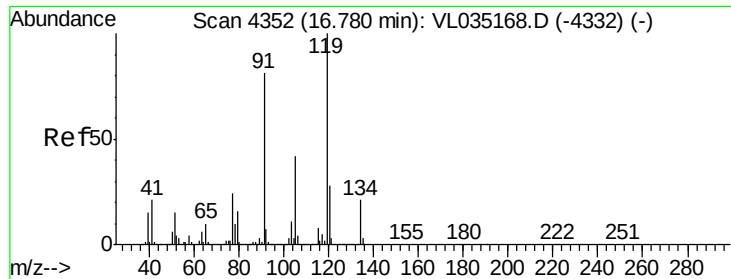
MMDadoda
 7/9/2020 12:02:40 PM



#64
 n-propylbenzene
 Concen: 14.520 ppbv
 RT: 15.60 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion	120	Resp	1777010
Ion Ratio	100	Lower	Upper
120	100		
91	442.1	372.4	558.6





#65

tert-Butylbenzene

Concen: 13.819 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. 0.01 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 5708827

Ion Ratio Lower Upper

119 100

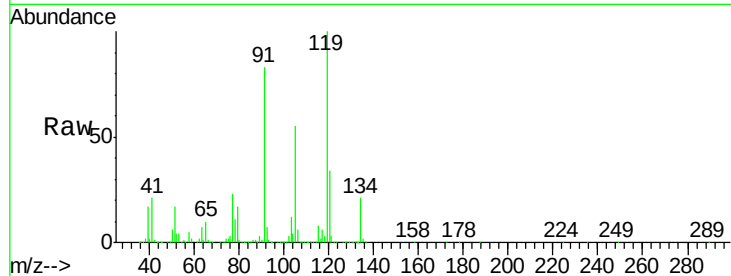
91 84.2 67.5 101.3

134 20.2 16.0 24.0

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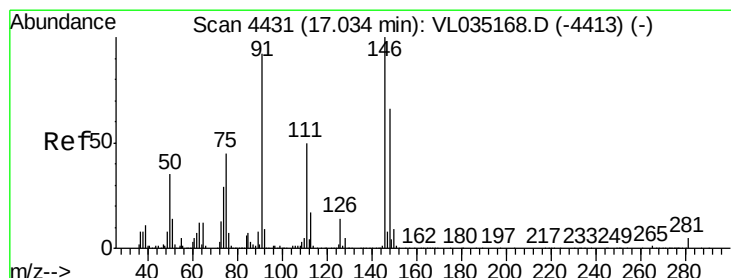
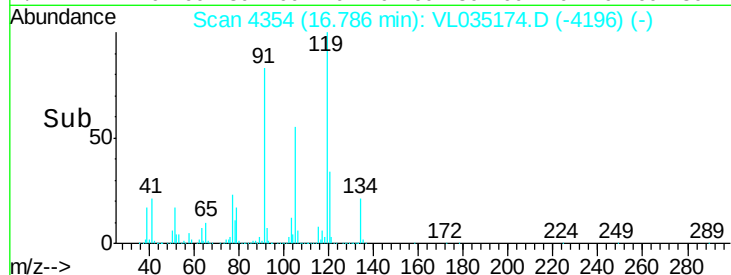
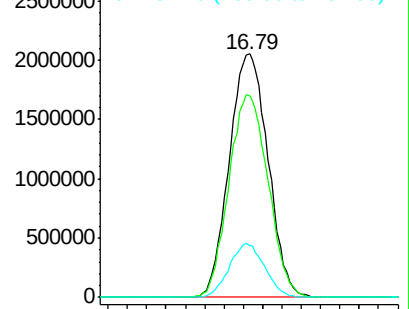
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 18.826 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

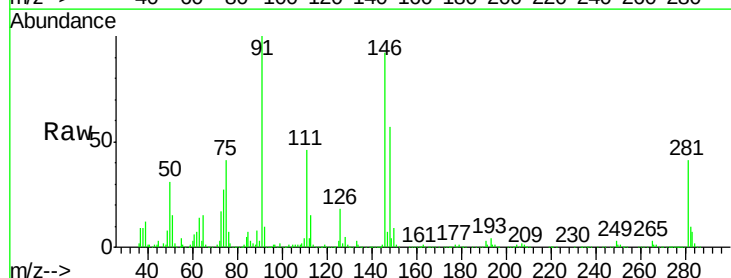
Tgt Ion: 91 Resp: 2454289

Ion Ratio Lower Upper

91 100

126 17.6 13.9 20.9

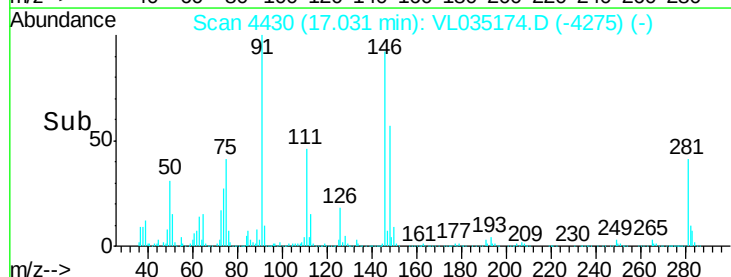
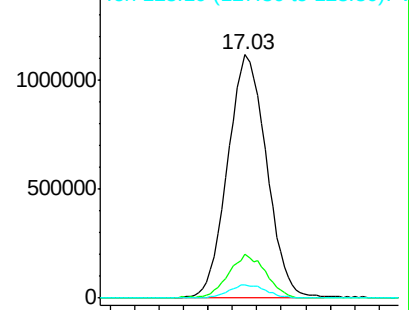
128 5.3 4.2 6.4

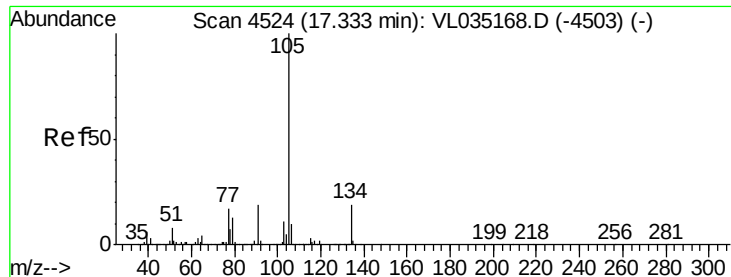


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





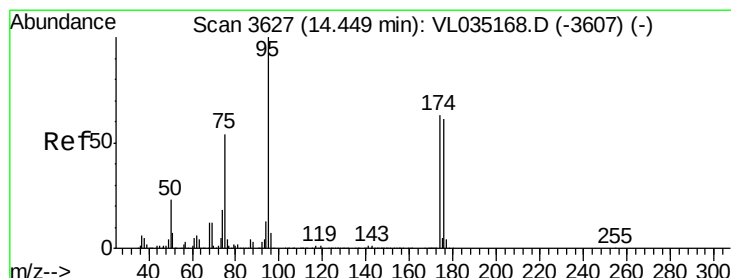
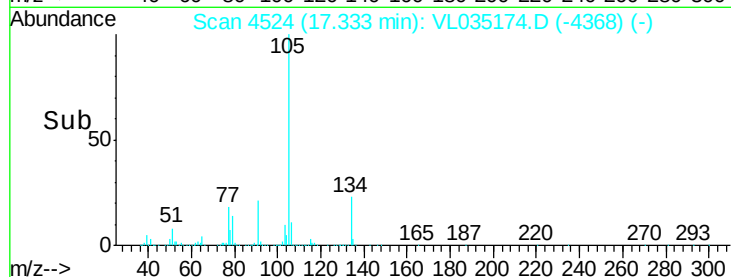
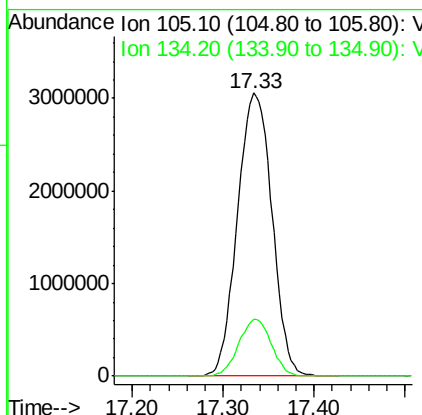
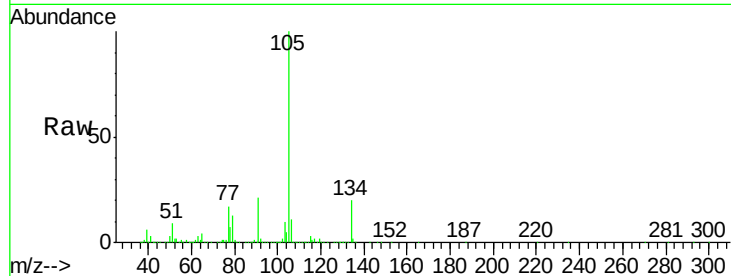
#67
 sec-Butylbenzene
 Concen: 13.571 ppbv
 RT: 17.33 min Scan# 4524
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 8051769
 Ion Ratio Lower Upper
 105 100
 134 19.0 14.6 21.8

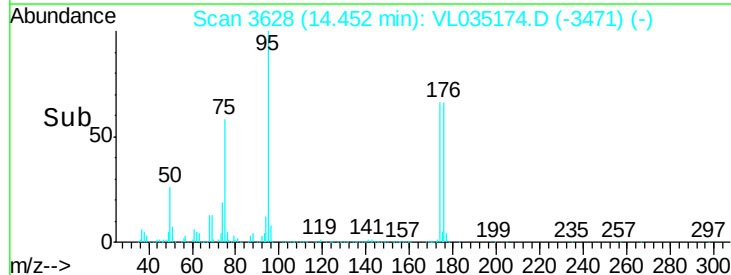
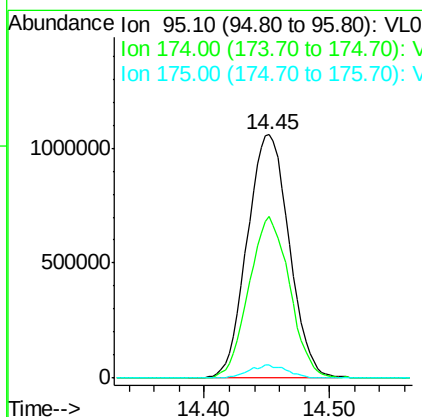
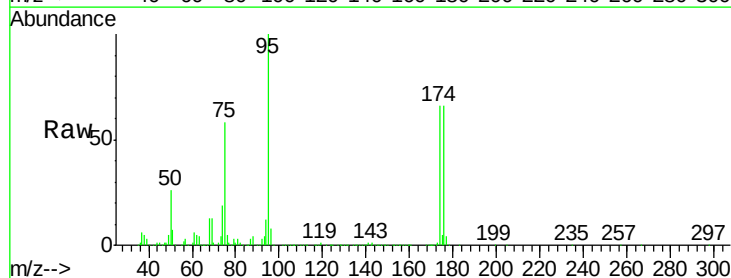
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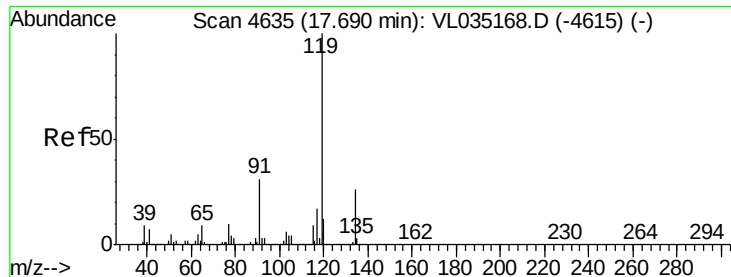
MMDadoda
 7/9/2020 12:02:40 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.230 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion: 95 Resp: 2463952
 Ion Ratio Lower Upper
 95 100
 174 64.8 52.2 78.2
 175 5.0 4.0 6.0





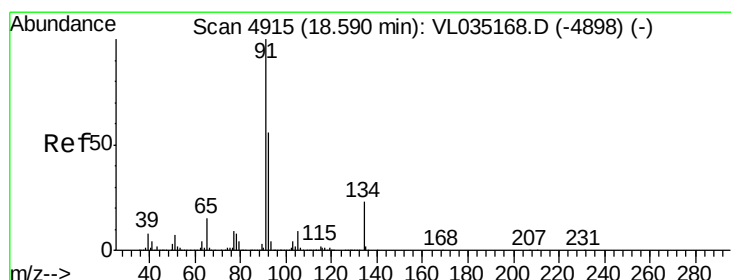
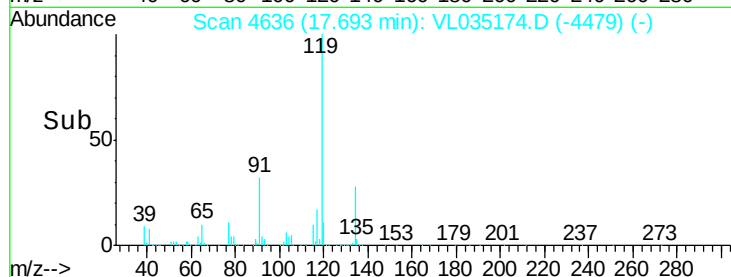
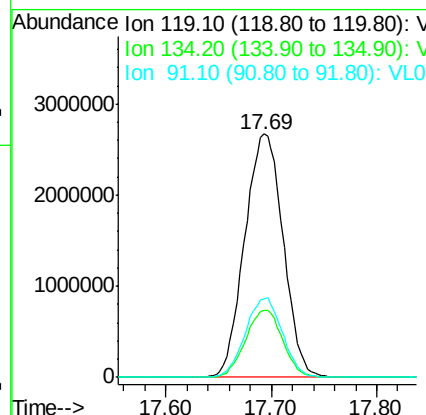
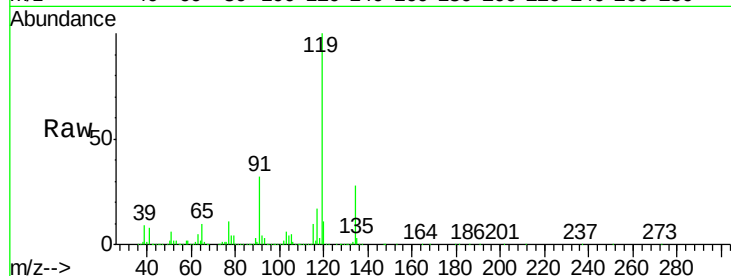
#69
 p-Isopropyltoluene
 Concen: 14.311 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.7	20.8	31.2
91	31.4	24.9	37.3

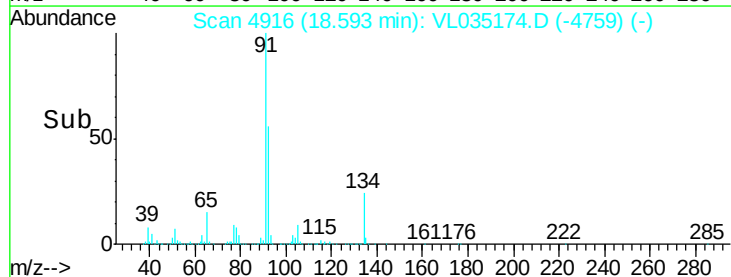
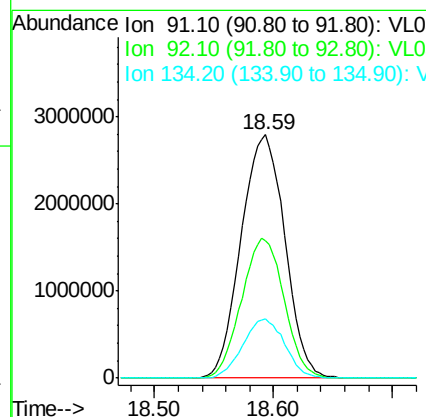
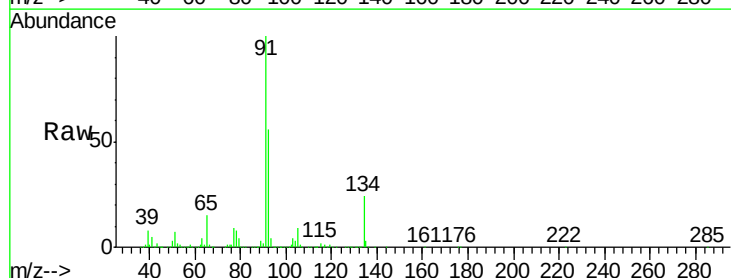
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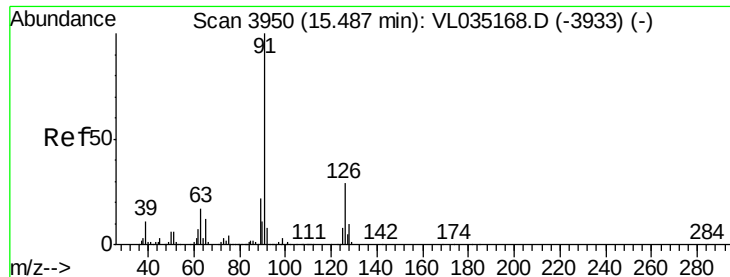
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#70
 n-Butylbenzene
 Concen: 13.879 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.2	44.0	66.0
134	23.5	18.0	27.0





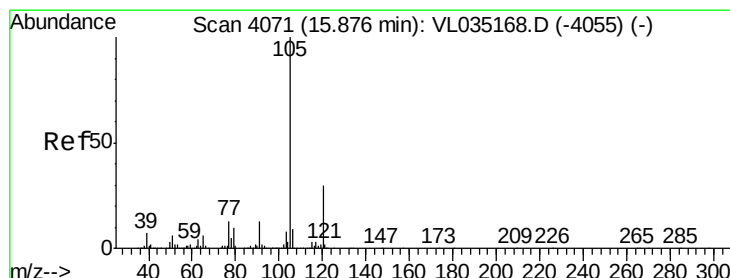
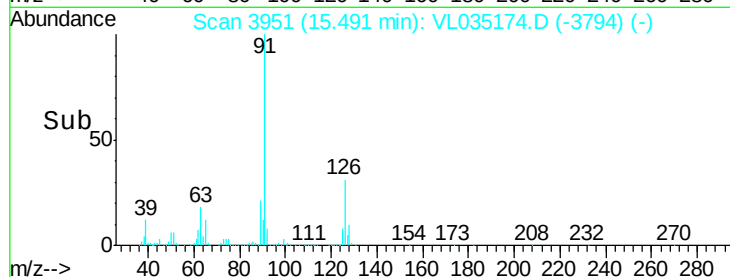
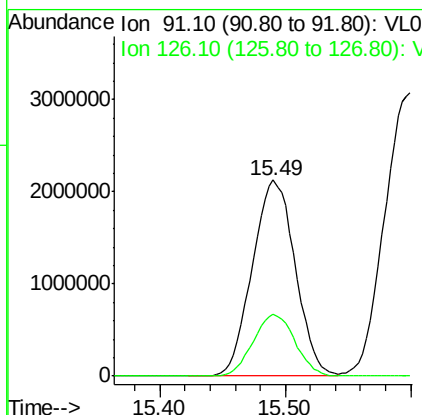
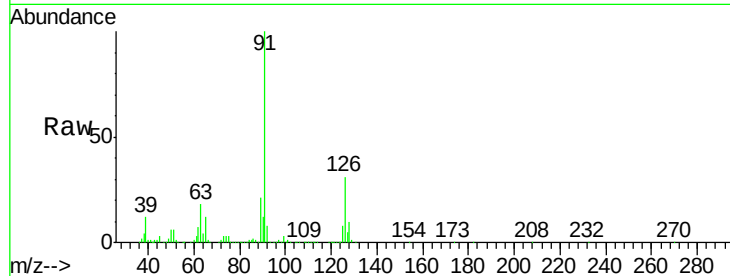
#71
 2-Chlorotoluene
 Concen: 13.974 ppbv
 RT: 15.49 min Scan# 3951
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 5063014
 Ion Ratio Lower Upper
 91 100
 126 30.8 12.0 48.0

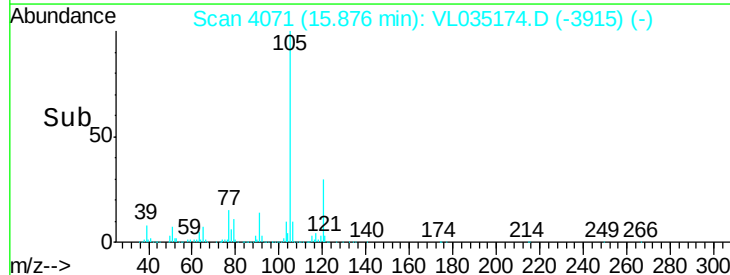
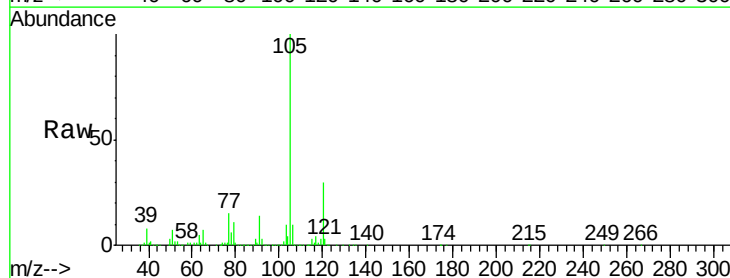
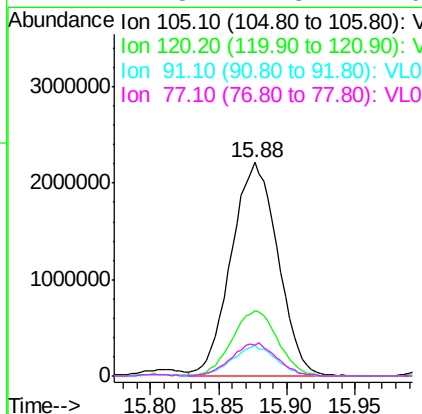
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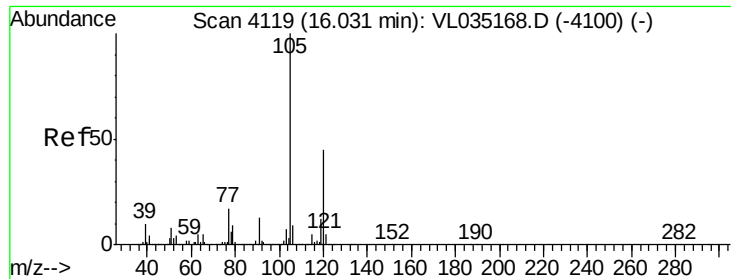
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#72
 4-Ethyltoluene
 Concen: 14.605 ppbv
 RT: 15.88 min Scan# 4071
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion: 105 Resp: 5235326
 Ion Ratio Lower Upper
 105 100
 120 30.0 23.2 34.8
 91 14.0 10.9 16.3
 77 14.8 11.8 17.6





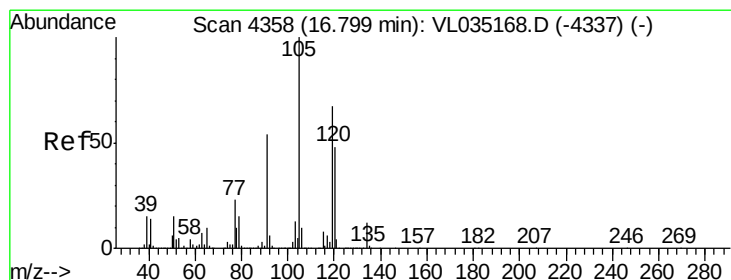
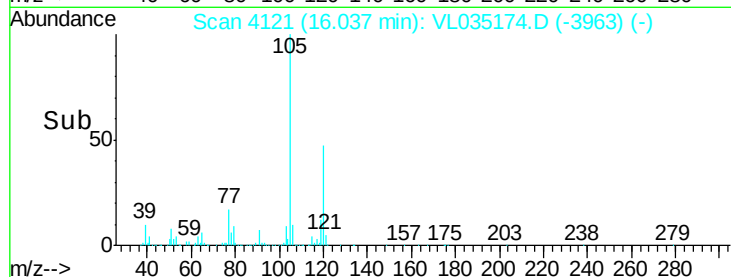
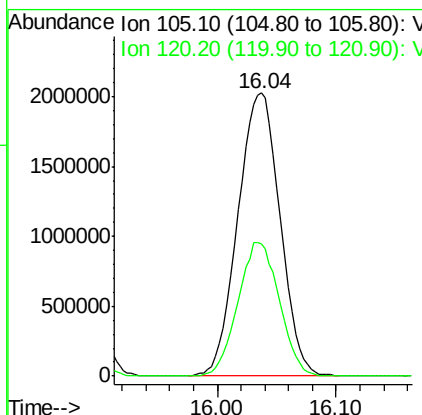
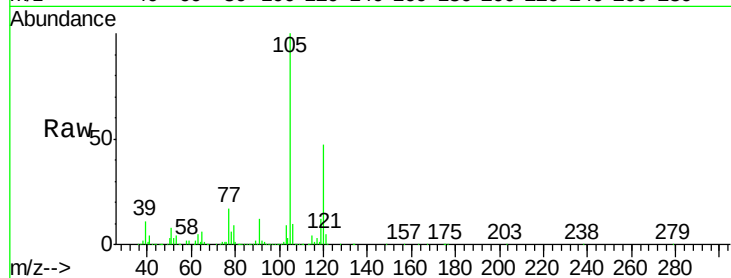
#73
 1,3,5-Trimethylbenzene
 Concen: 14.504 ppbv
 RT: 16.04 min Scan# 4121
 Delta R.T. 0.01 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 4931805
 Ion Ratio Lower Upper
 105 100
 120 46.8 36.2 54.2

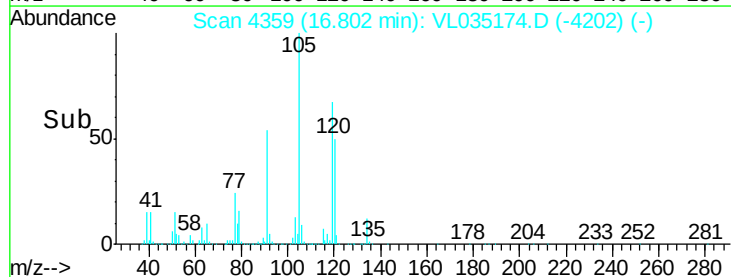
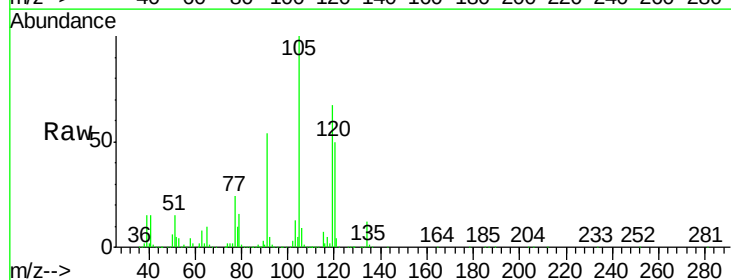
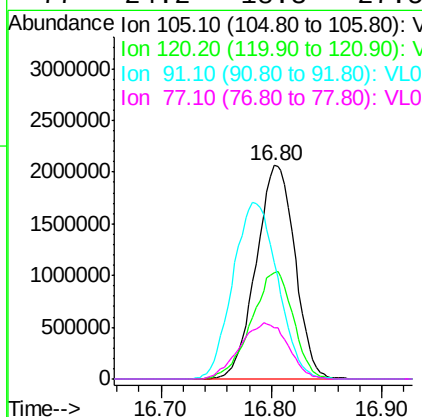
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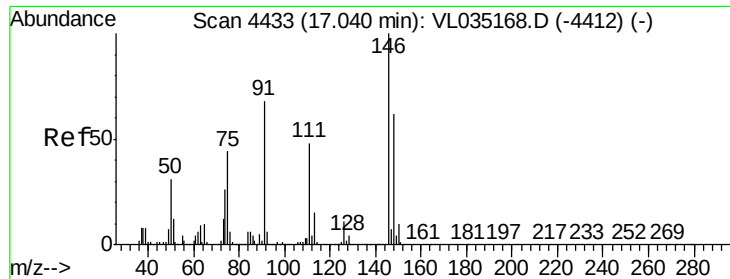
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 7/9/2020 12:02:40 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 13.218 ppbv
 RT: 16.80 min Scan# 4359
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion:105 Resp: 5026810
 Ion Ratio Lower Upper
 105 100
 120 49.9 38.6 57.8
 91 54.2 43.6 65.4
 77 24.2 18.3 27.5





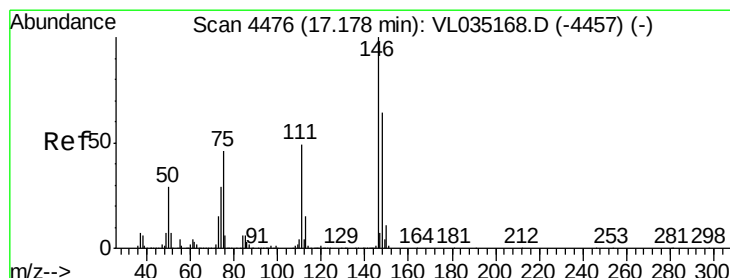
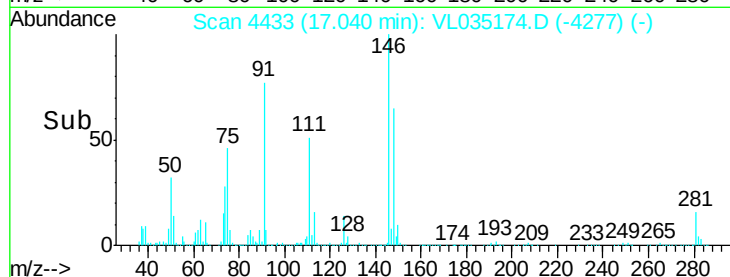
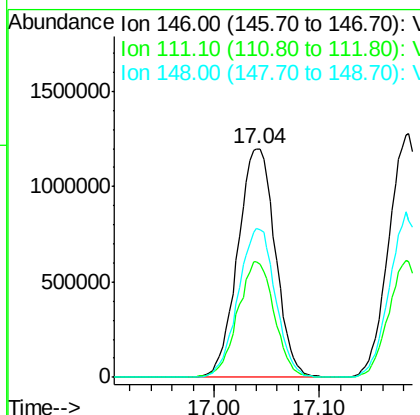
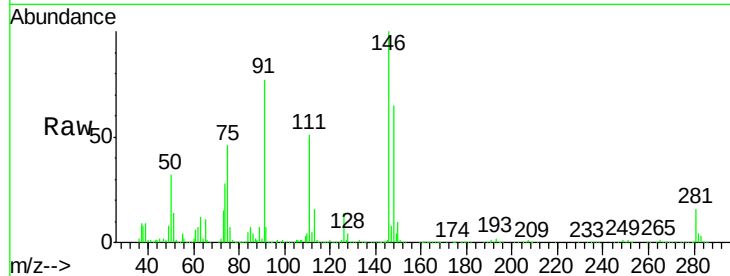
#75
 1,3-Dichlorobenzene
 Concen: 13.102 ppbv
 RT: 17.04 min Scan# 4433
 Delta R.T. 0.00 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 2965761
 Ion Ratio Lower Upper
 146 100
 111 49.4 24.7 74.1
 148 64.3 32.4 97.0

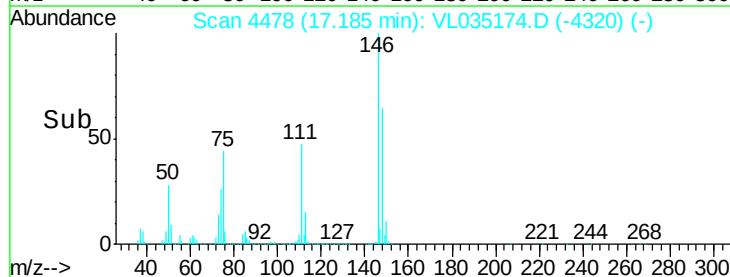
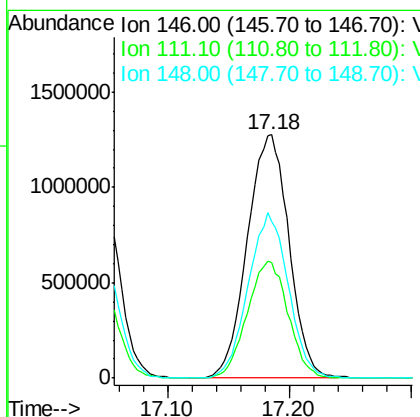
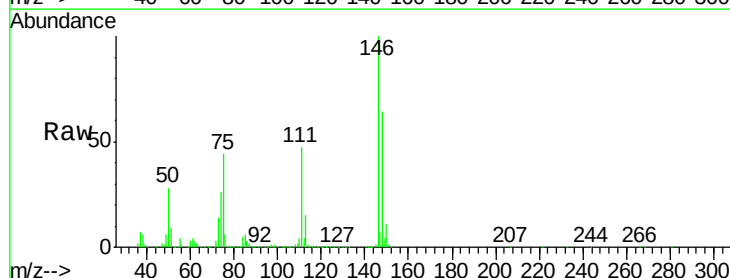
Manual Integrations
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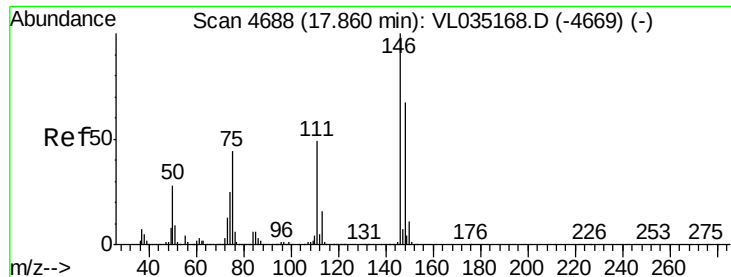
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#76
 1,4-Dichlorobenzene
 Concen: 13.821 ppbv
 RT: 17.18 min Scan# 4478
 Delta R.T. 0.01 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Tgt Ion:146 Resp: 3003784
 Ion Ratio Lower Upper
 146 100
 111 47.2 23.8 71.2
 148 65.5 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 13.809 ppbv

RT: 17.86 min Scan# 4689

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2878880

Ion Ratio Lower Upper

146 100

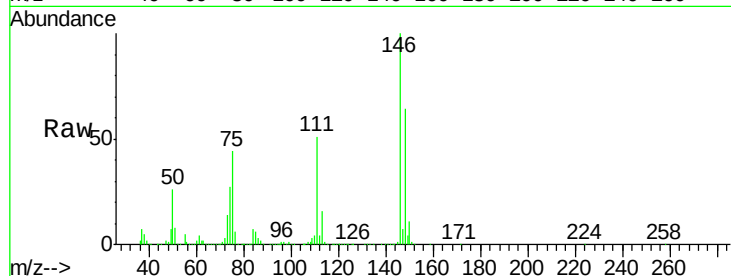
111 50.7 25.1 75.2

148 64.5 32.4 97.0

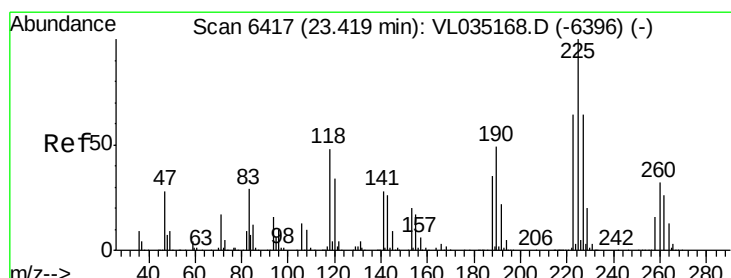
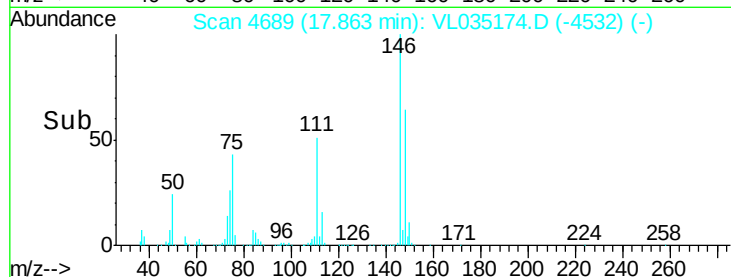
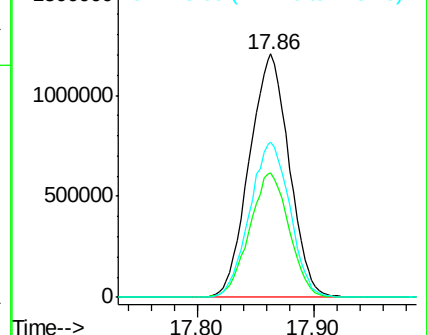
Manual Integrations
APPROVED

MMDadoda

7/9/2020 12:02:40 PM



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



#78

Hexachloro-1,3-Butadiene

Concen: 11.133 ppbv

RT: 23.42 min Scan# 6417

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

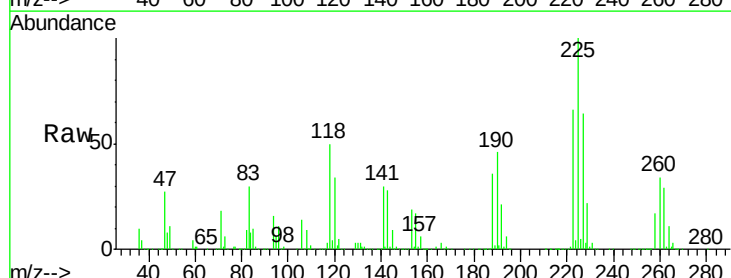
Tgt Ion:225 Resp: 2042724

Ion Ratio Lower Upper

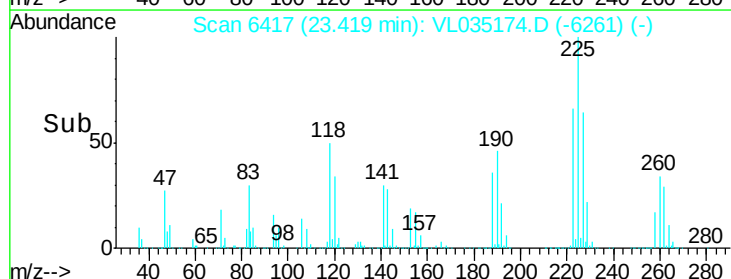
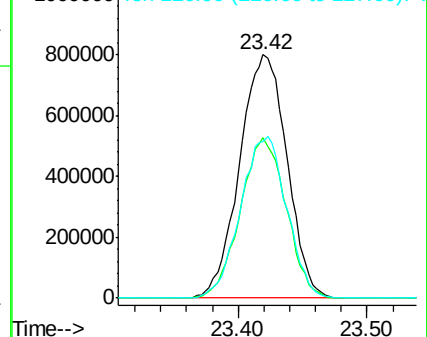
225 100

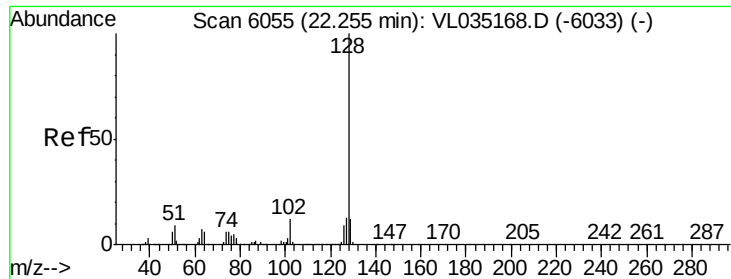
223 63.7 50.2 75.2

227 64.9 51.2 76.8



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





#79

Naphthalene

Concen: 13.865 ppbv

RT: 22.26 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Instrument :

MSVOA_L

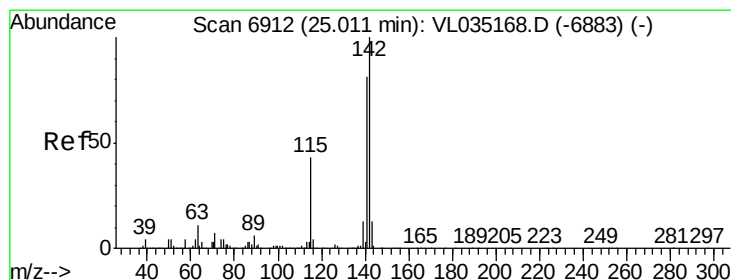
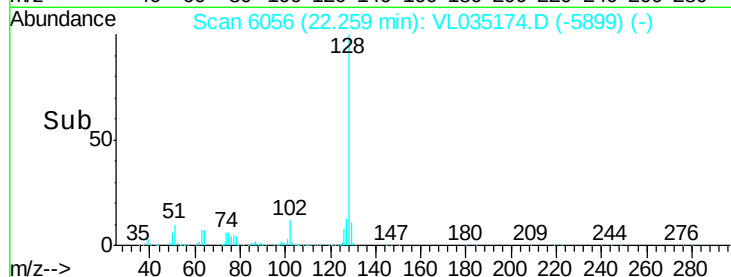
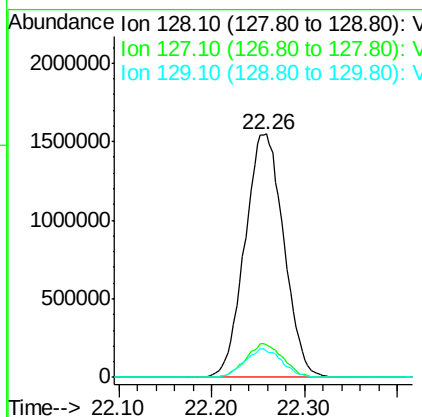
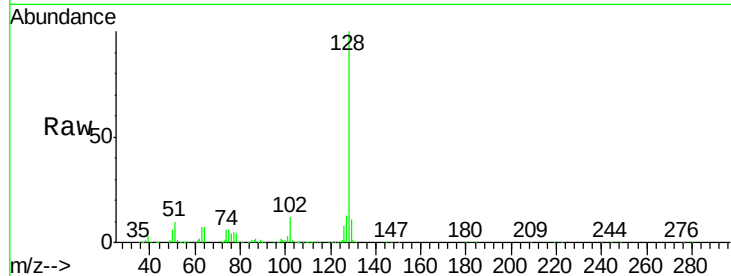
ClientSampleId :

VSTDIC015

Tot Ion:	128	Resp:	4490871
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.8	16.2
129	10.9	9.4	14.2

Manual Integrations
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7/9/2020 12:02:40 PM



#80

Naphthalene, 2-methyl-

Concen: 14.984 ppbv

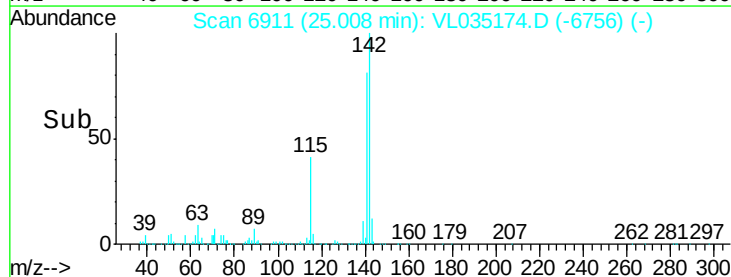
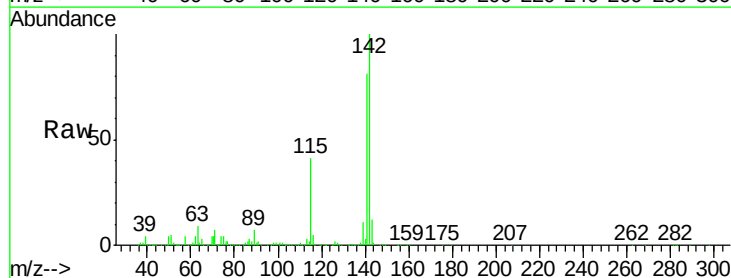
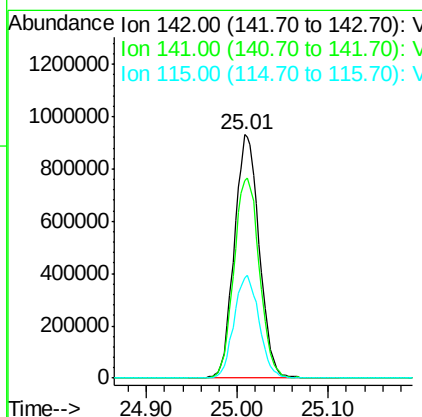
RT: 25.01 min Scan# 6911

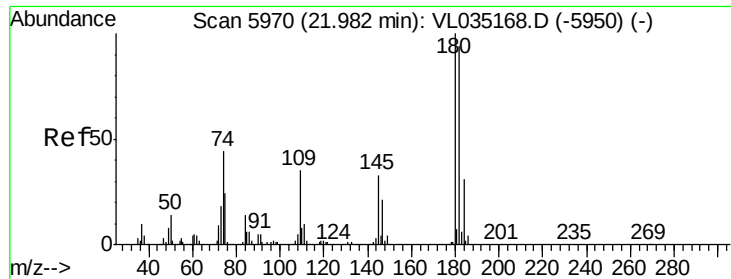
Delta R.T. -0.00 min

Lab File: VL035174.D

Acq: 8 Jul 2020 6:28

Tgt Ion:	142	Resp:	1764373
Ion	Ratio	Lower	Upper
142	100		
141	84.0	68.2	102.4
115	42.6	34.4	51.6





#81
 1,2,4-Trichlorobenzene
 Concen: 13.042 ppbv
 RT: 21.99 min Scan# 5972
 Delta R.T. 0.01 min
 Lab File: VL035174.D
 Acq: 8 Jul 2020 6:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.7	115.1
184	31.4	25.0	37.6

Manual Integrations
 APPROVED

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 7/9/2020 12:02:40 PM

