

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072120\
 Data File : VL035209.D
 Acq On : 21 Jul 2020 10:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/23/2020 3:00:12 PM

Quant Time: Jul 22 08:39:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 0
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1232579	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2942121	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2967236m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2296232	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.00	85	1335046	7.729	ppbv 100
3) Chlorodifluoromethane	2.94	51	1243176	9.131	ppbv 100
4) Chloromethane	3.09	50	704913	9.186	ppbv 97
5) Vinyl Chloride	3.21	62	736905	8.987	ppbv 98
6) Bromomethane	3.43	94	447557	9.617	ppbv 96
7) Chloroethane	3.51	64	279420	9.639	ppbv 99
8) Dichlorotetrafluoroethane	3.14	85	1698533	8.972	ppbv 100
9) Propene	2.96	41	486917	9.463	ppbv 98
10) Heptane	8.13	43	1436453	10.875	ppbv 100
11) Trichlorofluoromethane	3.91	101	1846348	9.465	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1286121	9.388	ppbv 100
13) Ethanol	3.56	45	131442	8.024	ppbv 94
14) Bromoethene	3.70	108	560603	9.943	ppbv 99
15) Acetone	3.81	43	1377446	8.255	ppbv 98
16) 1,3-Butadiene	3.28	39	655384	10.232	ppbv 100
17) tert-Butyl alcohol	4.26	59	1526075	10.336	ppbv 99
18) 1,1-Dichloroethene	4.26	96	590526	9.736	ppbv 94
19) Isopropyl Alcohol	3.93	45	1028658	10.218	ppbv 99
20) Methylene Chloride	4.31	84	565027	7.782	ppbv 98
21) Allyl Chloride	4.38	41	958235	9.866	ppbv 98
22) trans-1,2-Dichloroethene	4.86	96	594535	9.818	ppbv 97
23) Vinyl Acetate	5.05	43	1805258	9.994	ppbv 99
24) 1,1-Dichloroethane	4.99	63	1470573	9.480	ppbv 99
25) Ethyl Acetate	5.66	43	2531721	9.776	ppbv 99
26) Hexane	5.67	57	1143052	10.011	ppbv 99
27) Carbon Disulfide	4.52	76	1586666	9.951	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1739789	10.001	ppbv 99
29) Chloroform	5.74	83	1823854	9.528	ppbv 98
30) Cyclohexane	7.12	84	924428	10.942	ppbv 98
31) cis-1,2-Dichloroethene	5.53	61	1099723	10.183	ppbv 97
32) 1,1,1-Trichloroethane	6.50	97	1819010	9.481	ppbv 99
34) 2-Butanone	5.22	43	1534329	9.771	ppbv 99
35) Carbon Tetrachloride	7.01	117	1902306	9.961	ppbv 97
36) Benzene	6.89	78	2197560	10.320	ppbv 99
37) 1,2-Dichloroethane	6.30	62	1428011	9.993	ppbv 99
38) Trichloroethene	7.84	130	918790	10.589	ppbv 98
39) 1,2-Dichloropropane	7.62	63	870448	10.279	ppbv 97
40) 1,4-Dioxane	7.83	88	351367	10.423	ppbv 97
41) Tetrahydrofuran	6.03	42	847460	10.785	ppbv 99
42) Bromodichloromethane	7.80	83	1959969	10.271	ppbv 100
43) Methyl Methacrylate	8.02	69	1029383	11.436	ppbv 98

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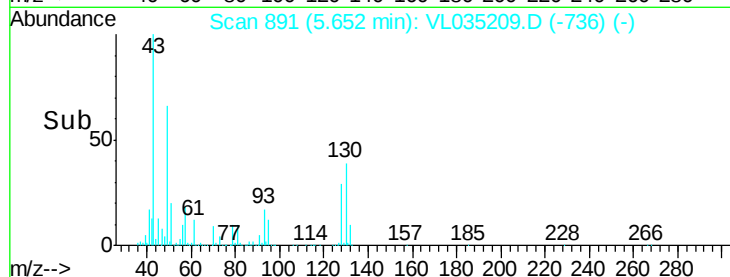
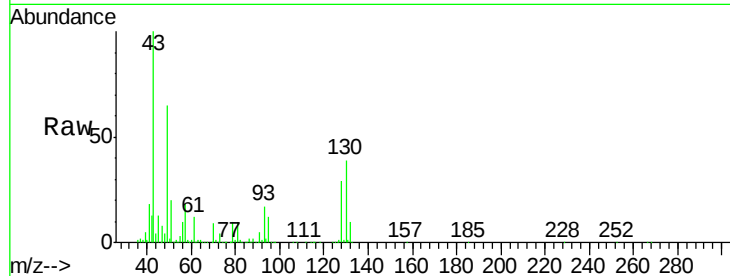
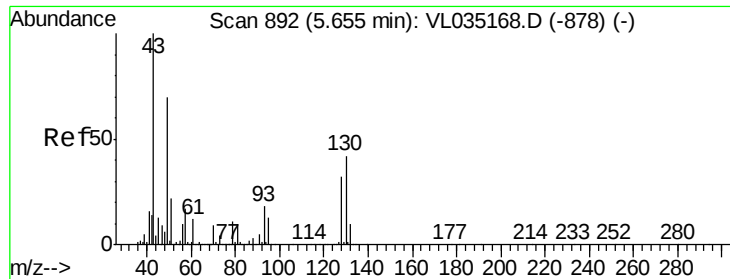
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3873765	10.539	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1152653	12.188	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1357712	12.110	ppbv	94
47) 1,1,2-Trichloroethane	9.49	97	963517	10.395	ppbv	98
48) Dibromochloromethane	10.33	129	1661562	11.017	ppbv	99
49) Bromoform	13.07	173	1461059	11.075	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2406319	10.677	ppbv	100
51) 2-Hexanone	10.15	43	1921913	11.184	ppbv #	100
52) Tetrachloroethene	11.25	164	813425	10.228	ppbv	95
53) Toluene	9.82	91	2623295	11.673	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1452804	10.562	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1272224	9.678	ppbv #	94
57) Chlorobenzene	12.17	112	2085882	9.538	ppbv	99
58) Ethyl Benzene	12.73	91	3580074	10.916	ppbv	98
59) m/p-Xylene	13.02	91	6019720m	20.594	ppbv	
60) o-Xylene	13.72	91	3031121	10.394	ppbv	99
61) Styrene	13.56	104	2109520	11.706	ppbv	99
62) Isopropylbenzene	14.70	105	4449226	10.293	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	2179310	8.943	ppbv	99
64) n-propylbenzene	15.59	120	1180543	10.572	ppbv	99
65) tert-Butylbenzene	16.78	119	3926928	10.115	ppbv	99
66) Benzyl Chloride	17.03	91	1587036	11.474	ppbv	100
67) sec-Butylbenzene	17.33	105	5660059	10.000	ppbv	99
69) p-Isopropyltoluene	17.69	119	4647459	10.477	ppbv	100
70) n-Butylbenzene	18.59	91	4833465	10.276	ppbv	99
71) 2-Chlorotoluene	15.49	91	3397190	10.386	ppbv	100
72) 4-Ethyltoluene	15.87	105	3555556	10.821	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	3320423	10.479	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	3500033	9.995	ppbv	98
75) 1,3-Dichlorobenzene	17.04	146	2014098	9.082	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	1993037	9.671	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1916774	9.600	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1391037	8.816	ppbv	99
79) Naphthalene	22.26	128	2890035	12.754	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1065508	19.907	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1626572	11.331	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

Lab File: VL035209.D

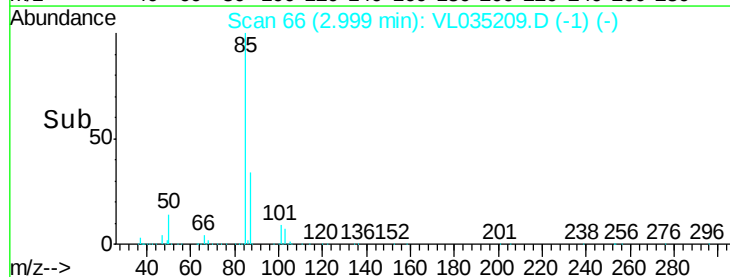
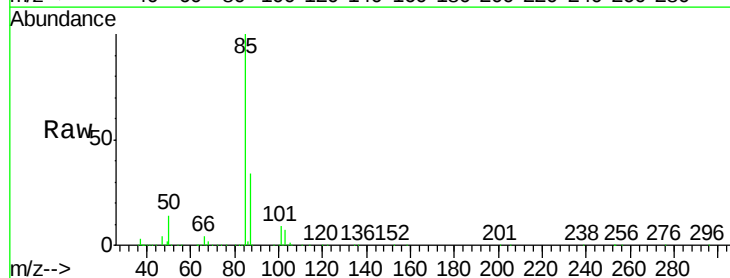
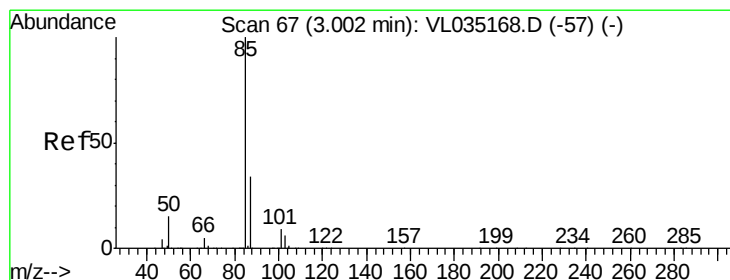
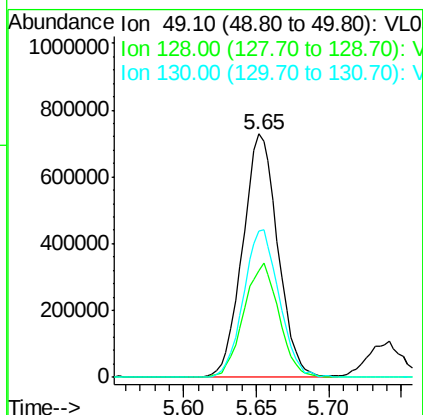
Acq: 21 Jul 2020 10:16

Tot Ion:	49	Resp:	1232579
Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.8	71.4
130	61.5	29.9	89.8

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#2

Dichlorodifluoromethane

Concen: 7.729 ppbv

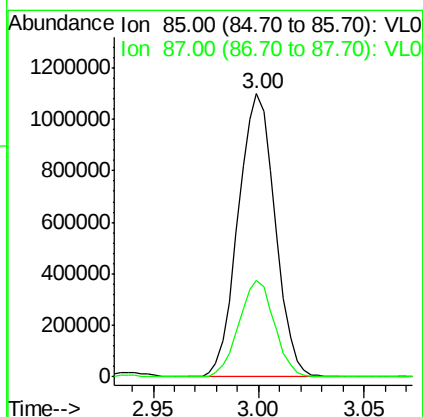
RT: 3.00 min Scan# 66

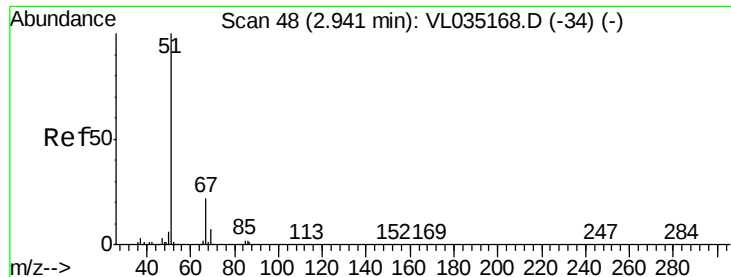
Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Tgt Ion:	85	Resp:	1335046
Ion	Ratio	Lower	Upper
85	100		
87	33.9	27.0	40.6





#3

Chlorodifluoromethane

Concen: 9.131 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1243176

Ion Ratio Lower Upper

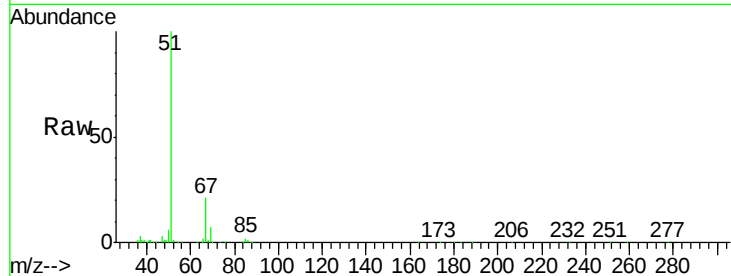
51 100

67 20.7 16.6 24.8

Manual Integrations
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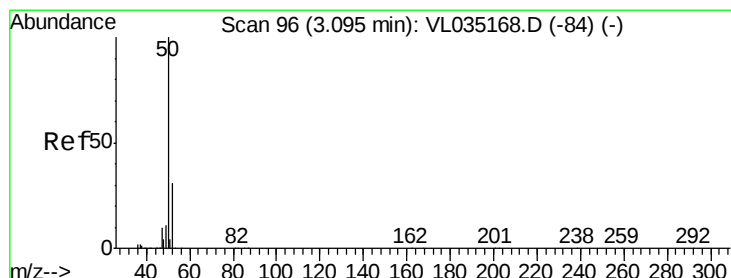
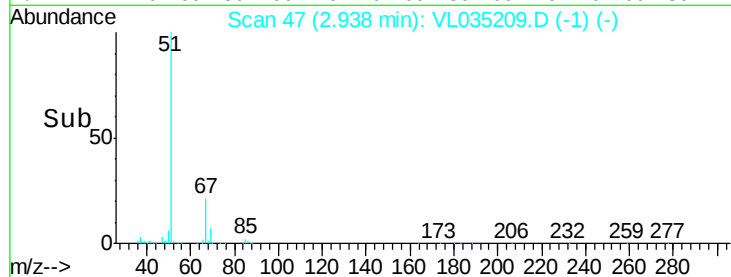
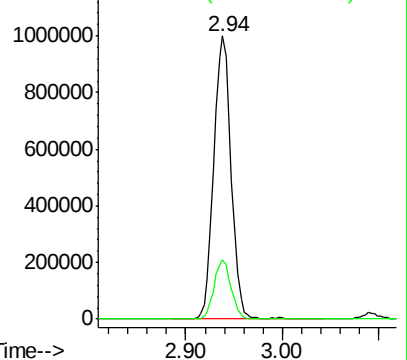
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7/23/2020 3:00:12 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.186 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.01 min

Lab File: VL035209.D

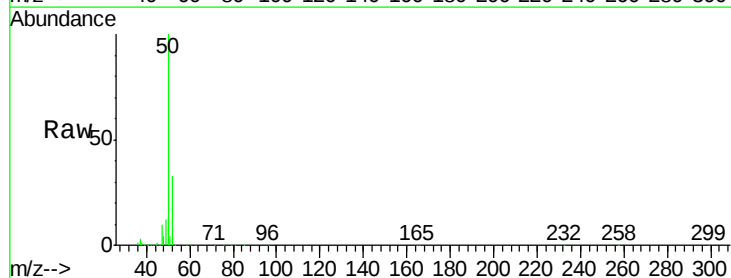
Acq: 21 Jul 2020 10:16

Tgt Ion: 50 Resp: 704913

Ion Ratio Lower Upper

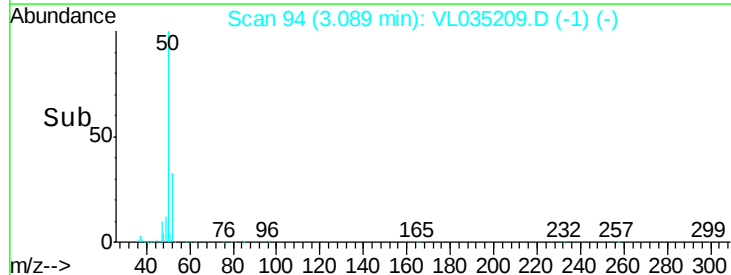
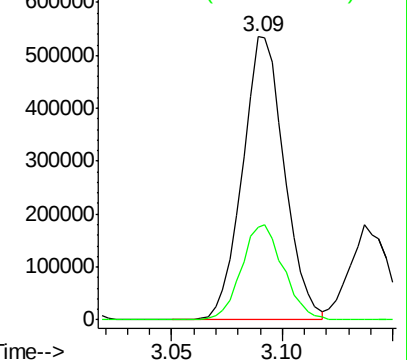
50 100

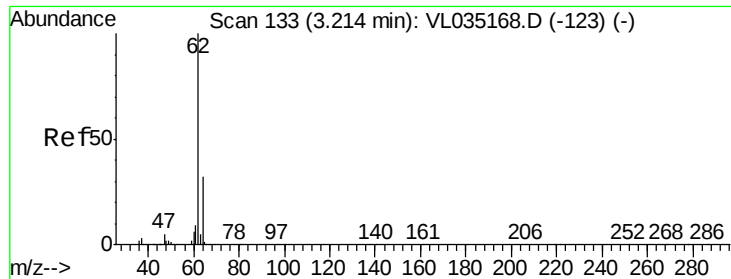
52 32.9 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.987 ppbv

RT: 3.21 min Scan# 131

Delta R.T. -0.01 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 736905

Ion Ratio Lower Upper

62 100

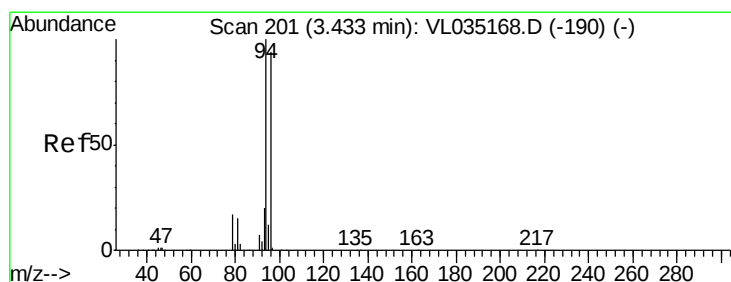
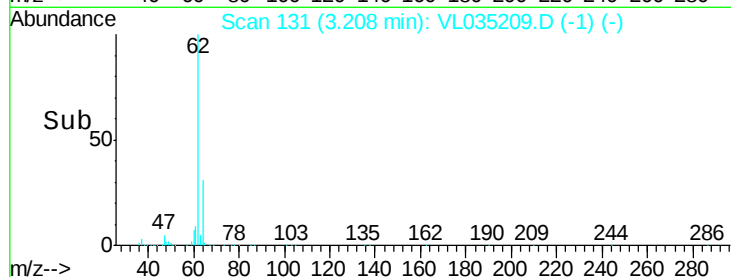
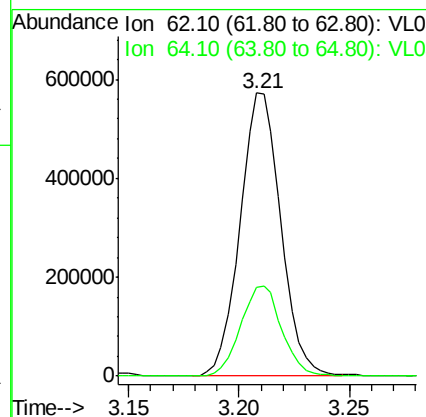
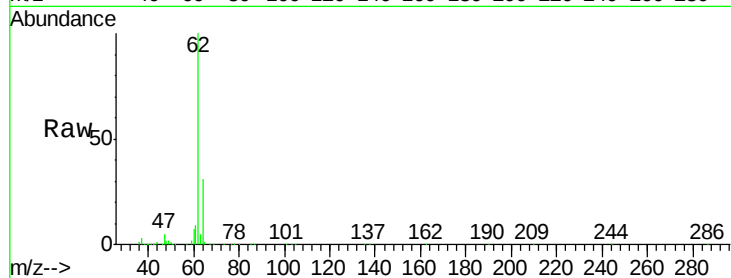
64 31.3 25.9 38.9

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#6

Bromomethane

Concen: 9.617 ppbv

RT: 3.43 min Scan# 199

Delta R.T. -0.01 min

Lab File: VL035209.D

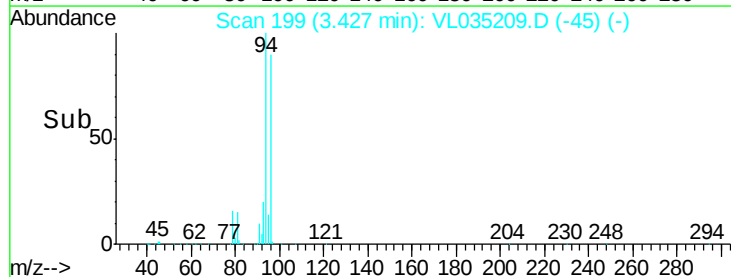
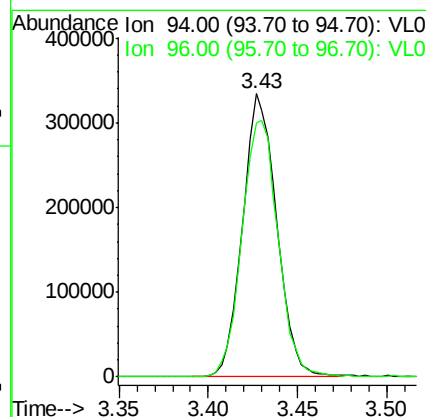
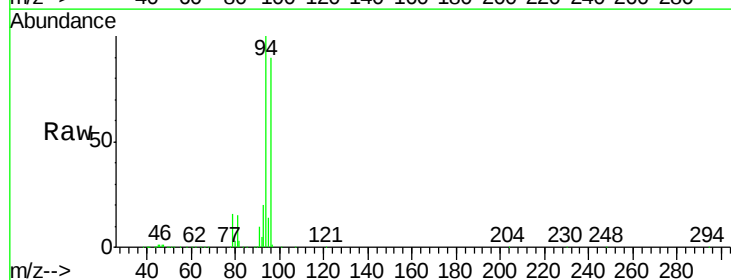
Acq: 21 Jul 2020 10:16

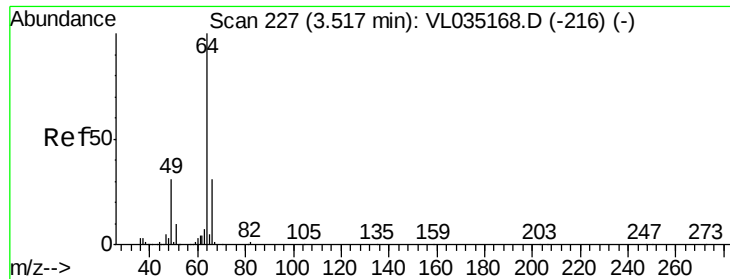
Tgt Ion: 94 Resp: 447557

Ion Ratio Lower Upper

94 100

96 89.8 74.8 112.2





#7

Chloroethane

Concen: 9.639 ppbv

RT: 3.51 min Scan# 226

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 279420

Ion Ratio Lower Upper

64 100

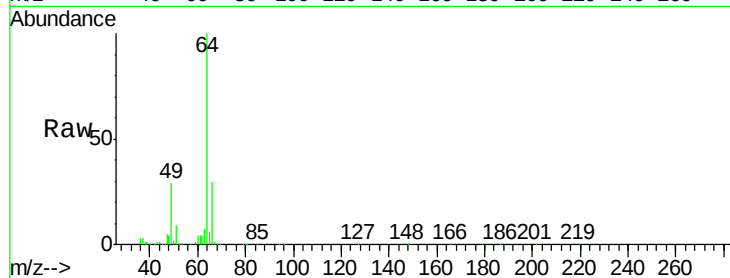
66 30.4 24.6 36.8

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

250000

200000

150000

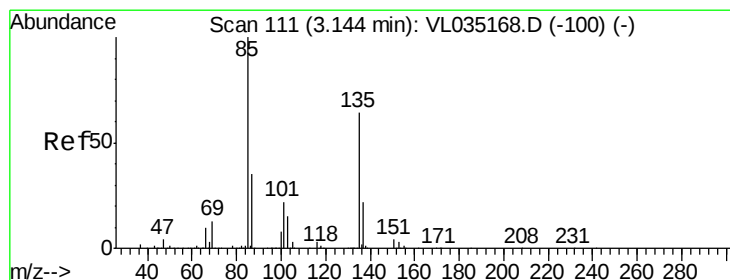
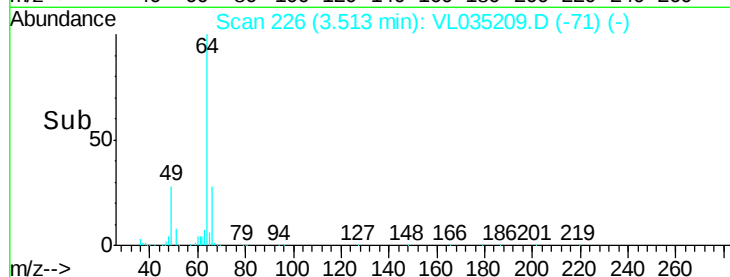
100000

50000

0

3.45 3.50 3.55

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.972 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035209.D

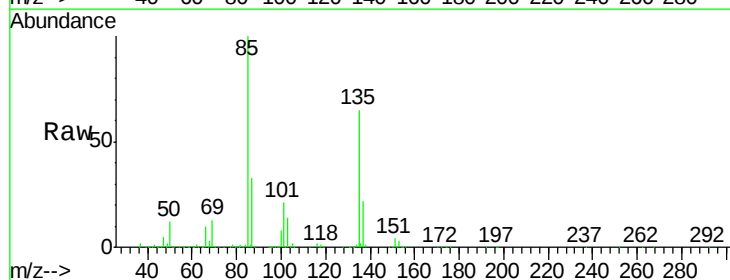
Acq: 21 Jul 2020 10:16

Tgt Ion: 85 Resp: 1698533

Ion Ratio Lower Upper

85 100

135 65.0 52.1 78.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

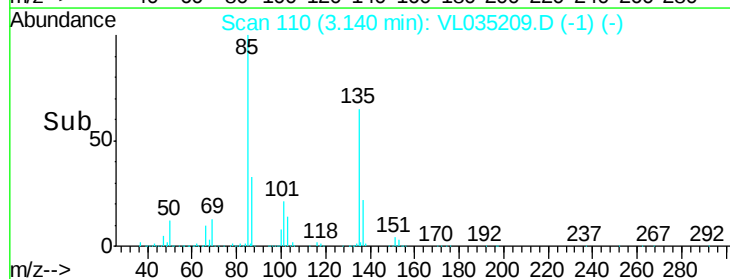
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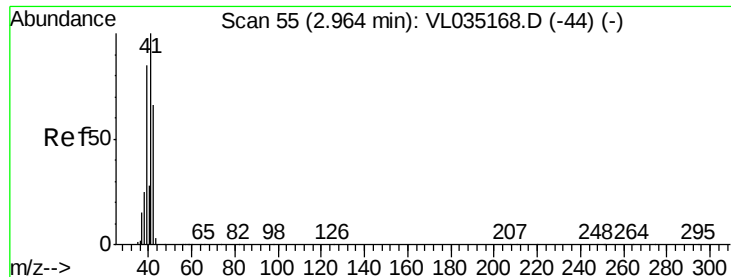
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0

3.10 3.15 3.20

Time-->





#9

Propene

Concen: 9.463 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

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ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 486917

Ion Ratio Lower Upper

41 100

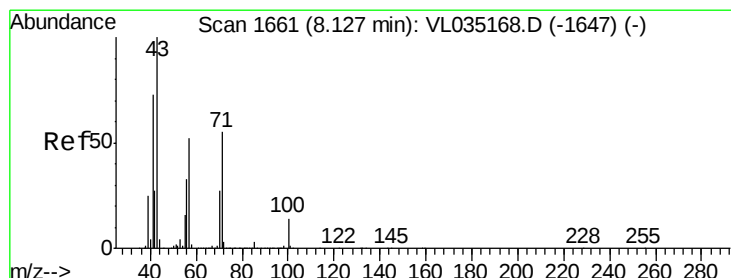
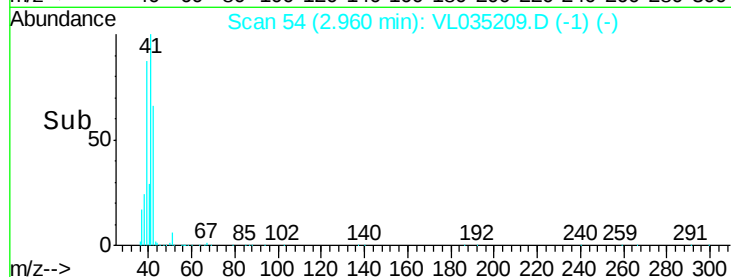
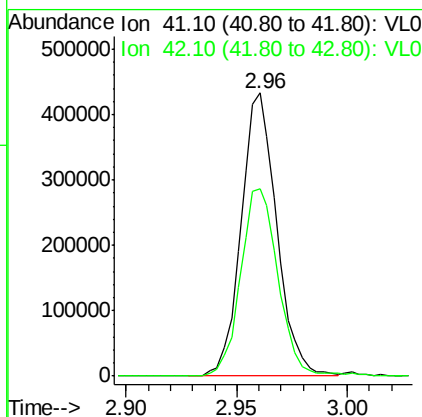
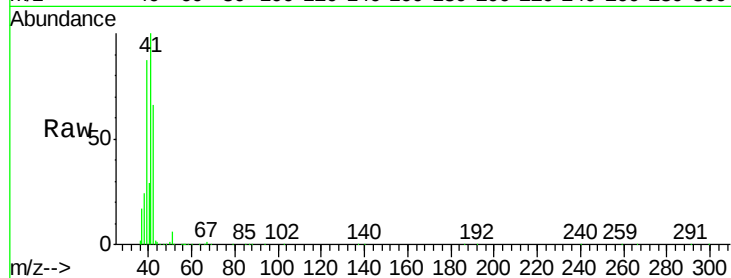
42 70.2 54.6 81.8

Manual Integrations

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#10

Heptane

Concen: 10.875 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL035209.D

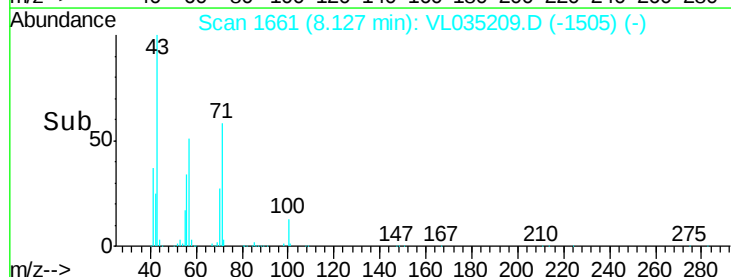
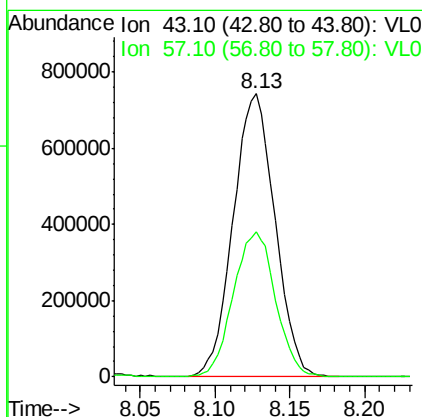
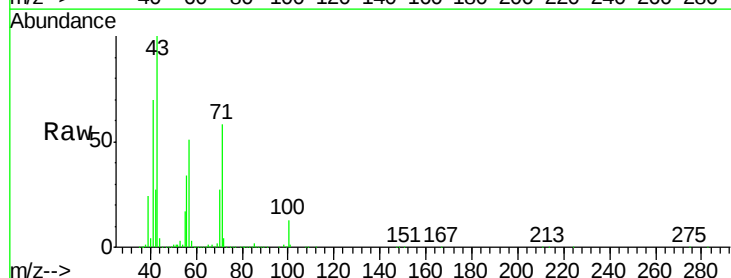
Acq: 21 Jul 2020 10:16

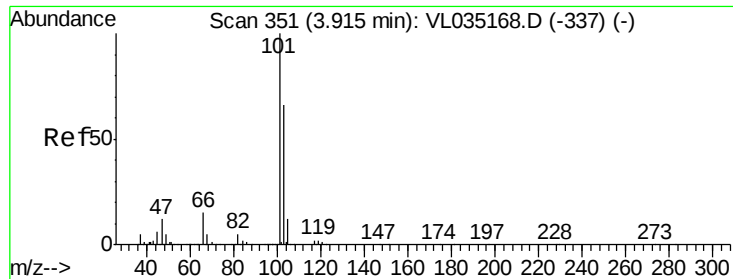
Tgt Ion: 43 Resp: 1436453

Ion Ratio Lower Upper

43 100

57 52.2 41.8 62.6





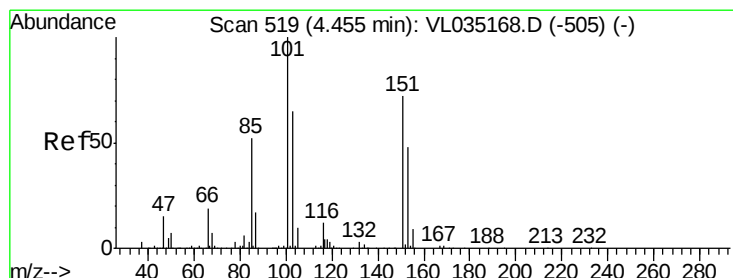
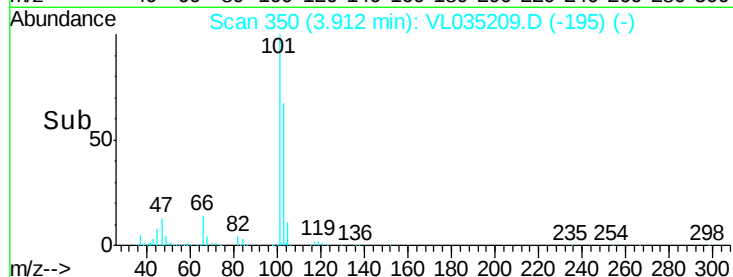
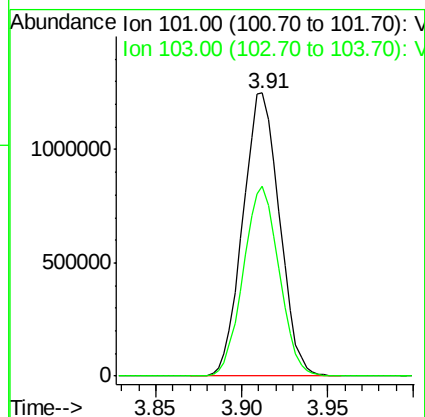
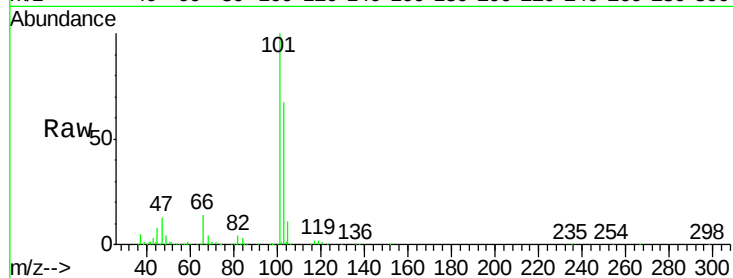
#11
 Trichlorofluoromethane
 Concen: 9.465 ppbv
 RT: 3.91 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1846348
 Ion Ratio Lower Upper
 101 100
 103 67.0 53.1 79.7

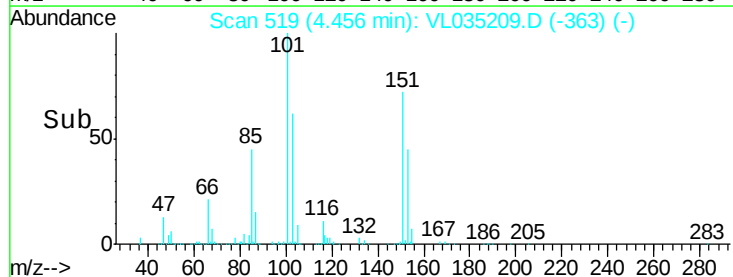
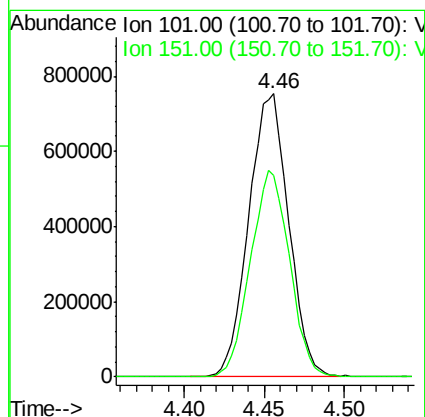
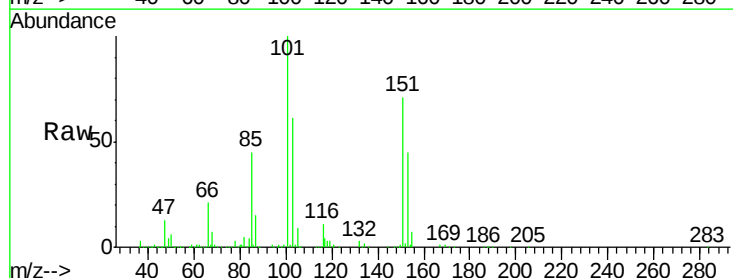
Manual Integrations
 APPROVED

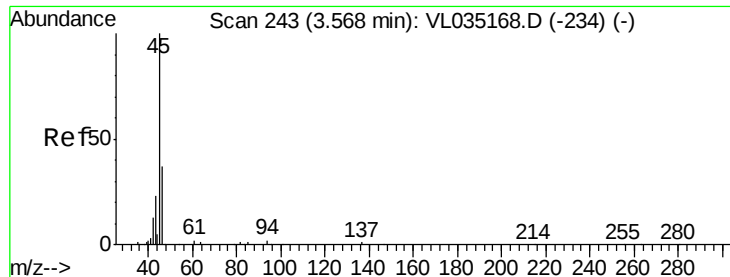
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.388 ppbv
 RT: 4.46 min Scan# 519
 Delta R.T. 0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Tgt Ion:101 Resp: 1286121
 Ion Ratio Lower Upper
 101 100
 151 71.5 57.0 85.4





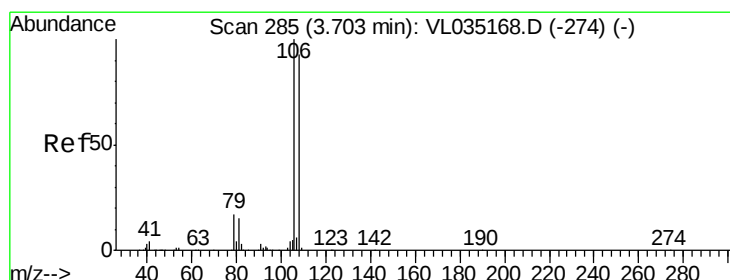
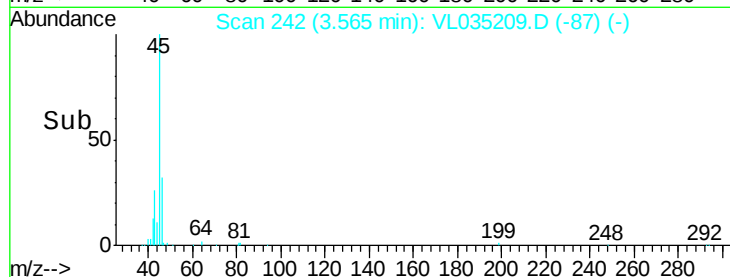
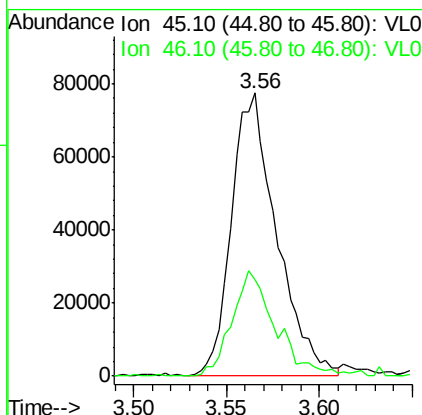
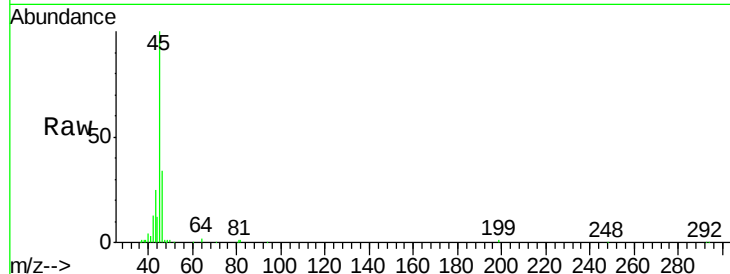
#13
Ethanol
Concen: 8.024 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Ratio	Lower	Upper
45	100			
46	36.6	16.2	65.0	

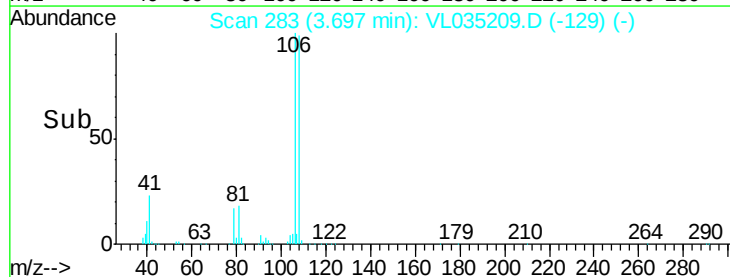
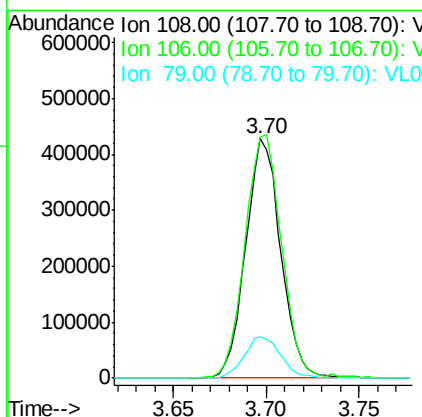
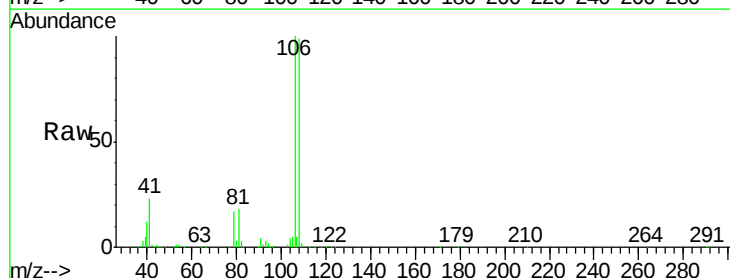
Manual Integrations
APPROVED

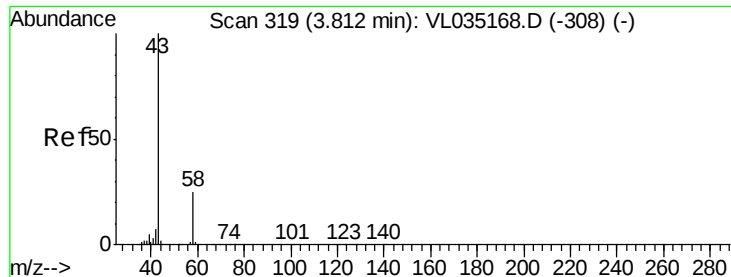
MMDadoda
7/23/2020 3:00:12 PM



#14
Bromoethene
Concen: 9.943 ppbv
RT: 3.70 min Scan# 283
Delta R.T. -0.01 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion	108	Ratio	Lower	Upper
108	100			
106	107.2	86.2	129.2	
79	18.3	15.0	22.6	





#15

Acetone

Concen: 8.255 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1377446

Ion Ratio Lower Upper

43 100

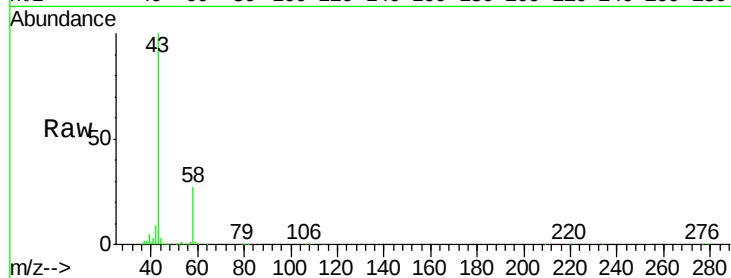
58 27.5 21.3 31.9

Manual Integrations

APPROVED

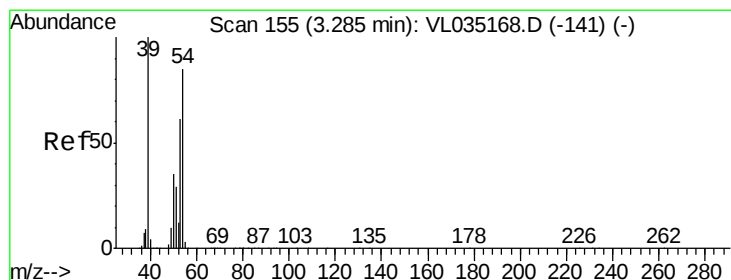
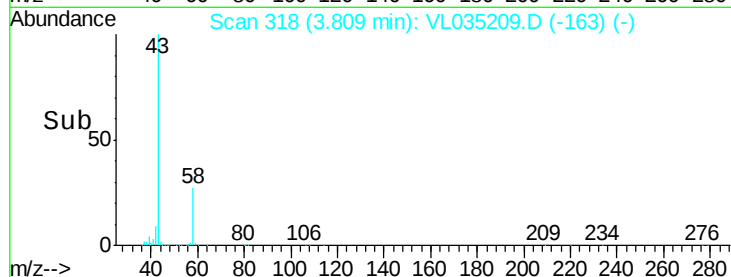
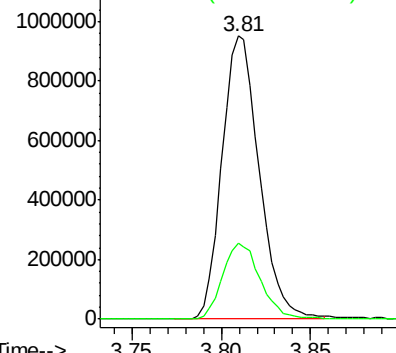
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.232 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.00 min

Lab File: VL035209.D

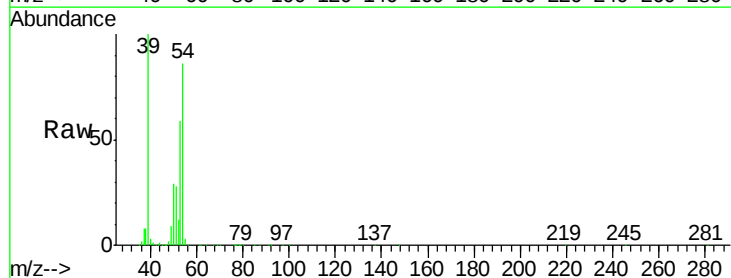
Acq: 21 Jul 2020 10:16

Tgt Ion: 39 Resp: 655384

Ion Ratio Lower Upper

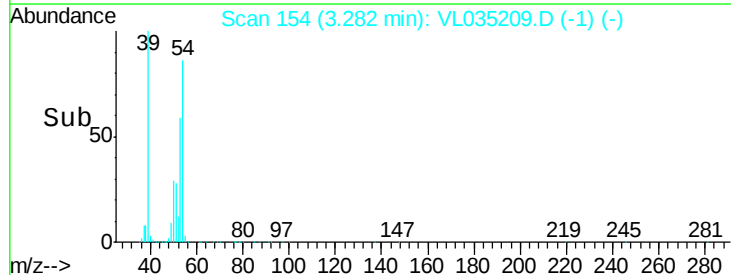
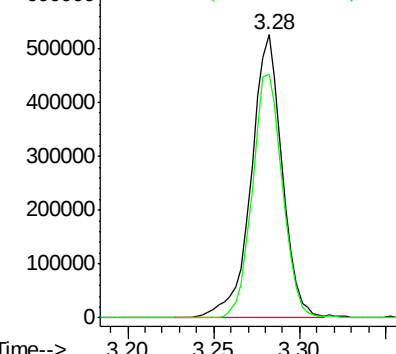
39 100

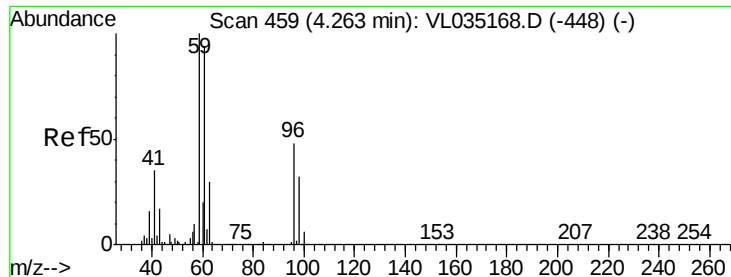
54 84.0 67.2 100.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

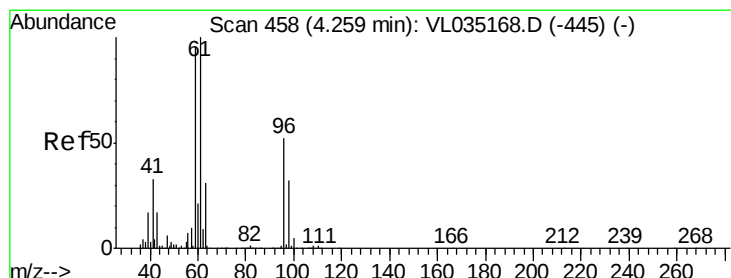
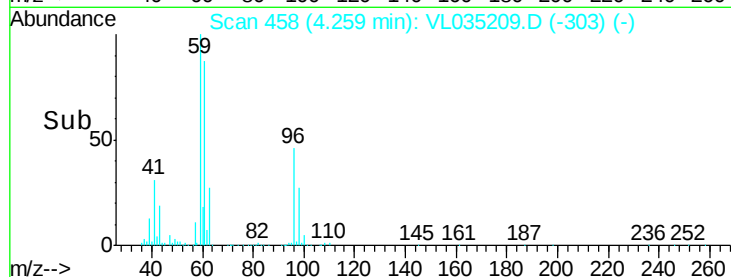
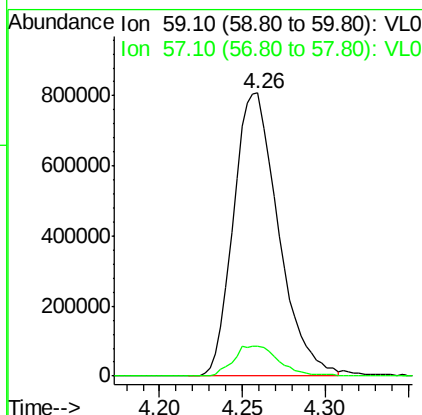
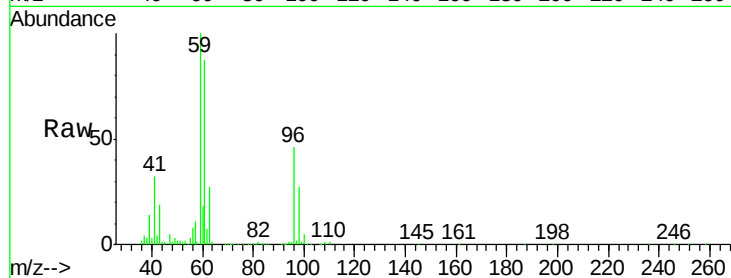
tert-Butyl alcohol
Concen: 10.336 ppbv
RT: 4.26 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1526075
Ion Ratio Lower Upper
59 100
57 11.1 8.6 12.8

Manual Integrations
APPROVED

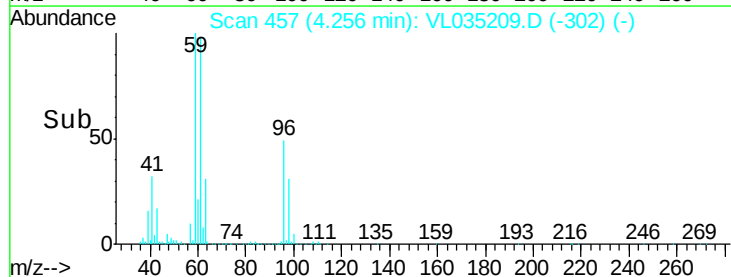
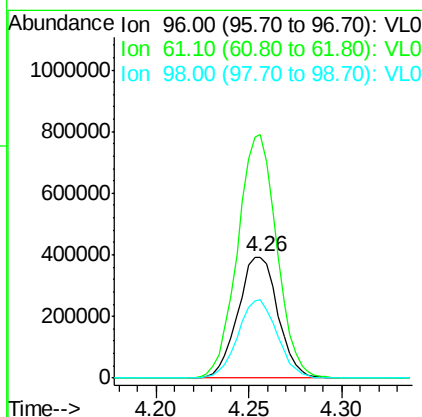
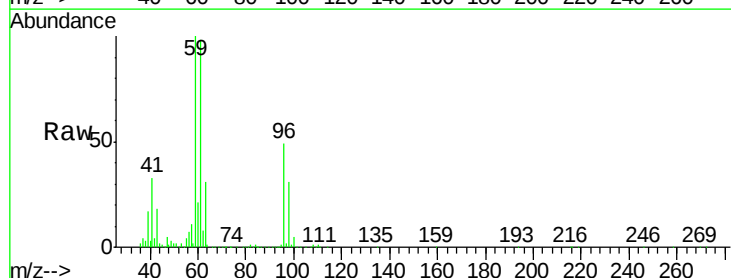
MMDadoda
7/23/2020 3:00:12 PM

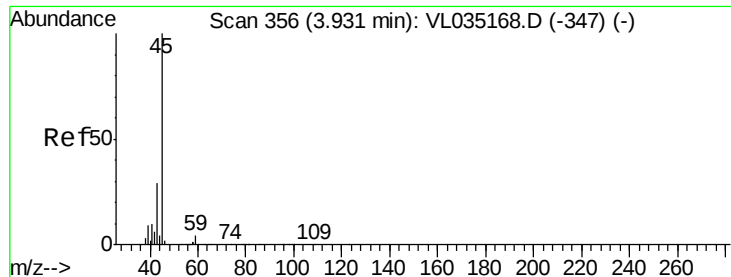


#18

1,1-Dichloroethene
Concen: 9.736 ppbv
RT: 4.26 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion: 96 Resp: 590526
Ion Ratio Lower Upper
96 100
61 200.8 152.9 229.3
98 64.4 48.7 73.1





#19

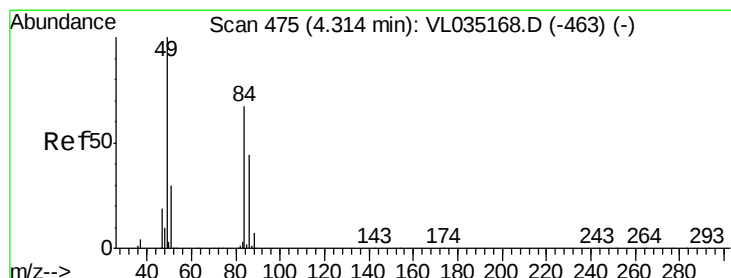
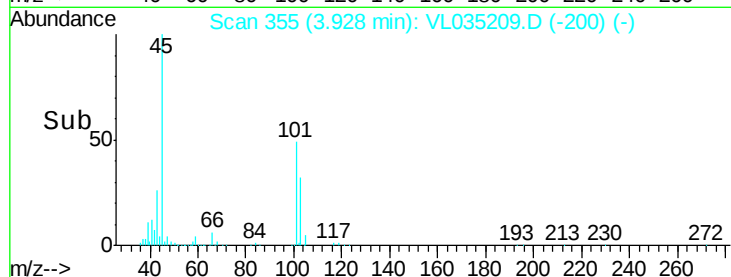
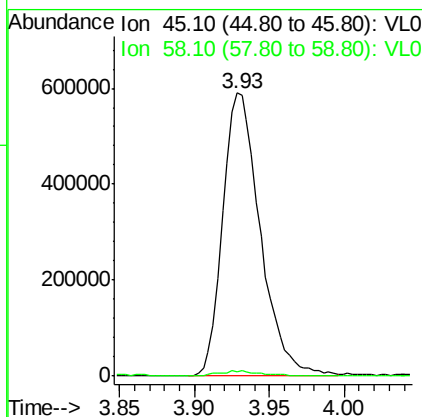
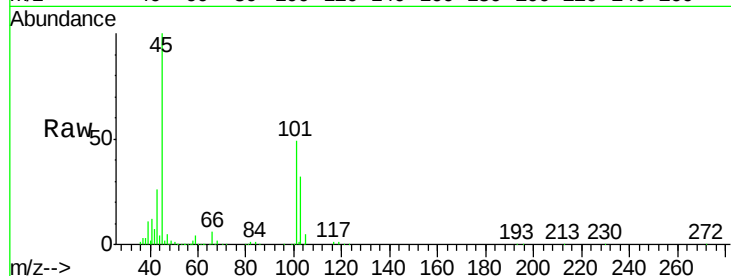
Isopropyl Alcohol
 Concen: 10.218 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 45 Resp: 1028658
 Ion Ratio Lower Upper
 45 100
 58 2.4 2.1 3.1

Manual Integrations
 APPROVED

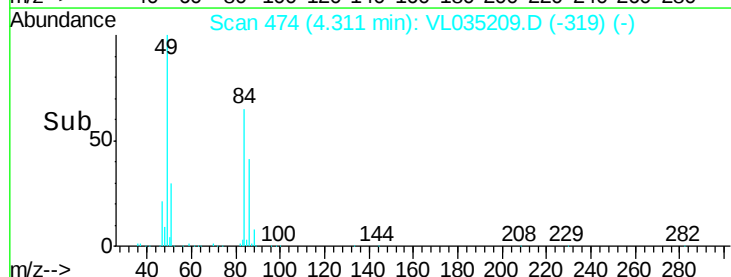
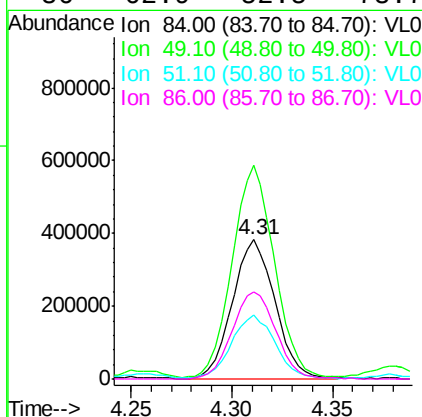
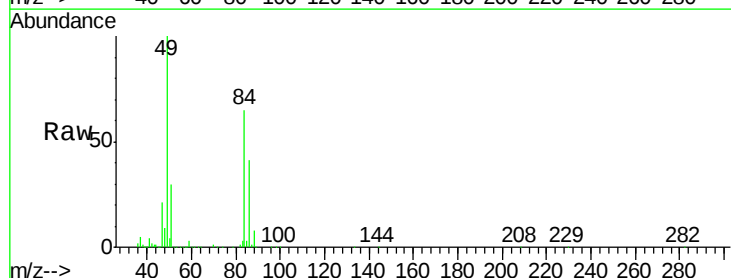
MMDadoda
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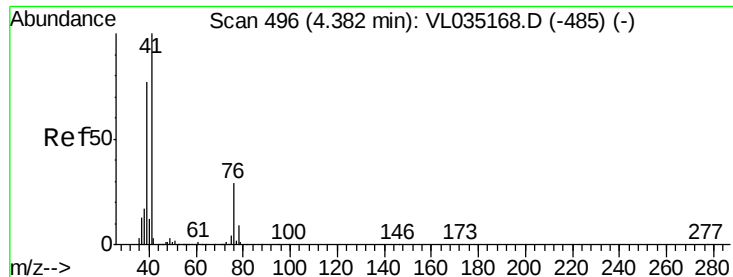


#20

Methylene Chloride
 Concen: 7.782 ppbv
 RT: 4.31 min Scan# 474
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Tgt Ion: 84 Resp: 565027
 Ion Ratio Lower Upper
 84 100
 49 152.3 119.4 179.0
 51 45.7 36.6 55.0
 86 62.9 52.5 78.7





#21

Allvl Chloride

Concen: 9.866 ppbv

RT: 4.38 min Scan# 495

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

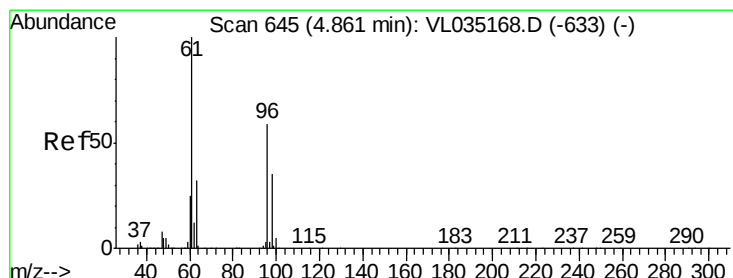
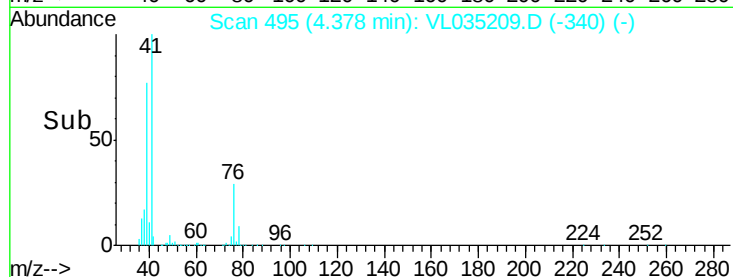
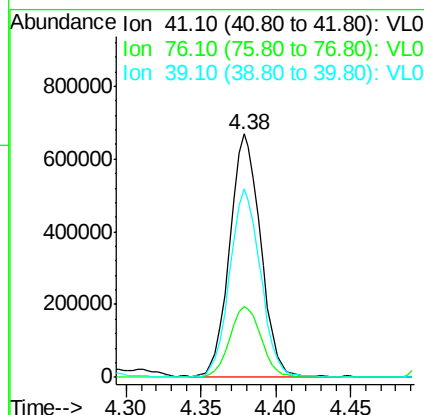
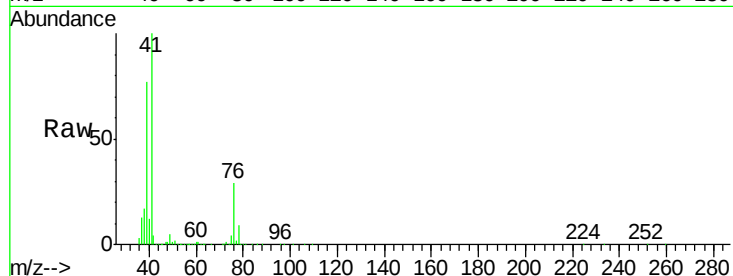
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	958235
Ion Ratio	Lower	Upper	
41	100		
76	29.9	23.5	35.3
39	77.5	63.4	95.0

Manual Integrations
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7/23/2020 3:00:12 PM



#22

trans-1,2-Dichloroethene

Concen: 9.818 ppbv

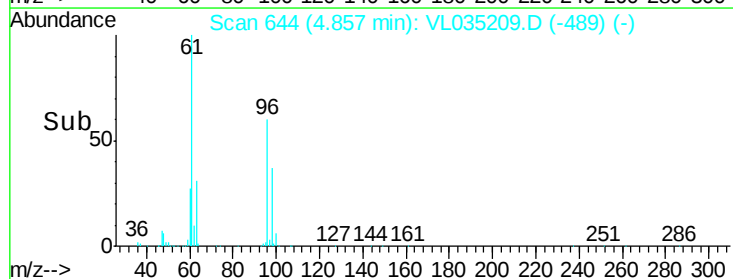
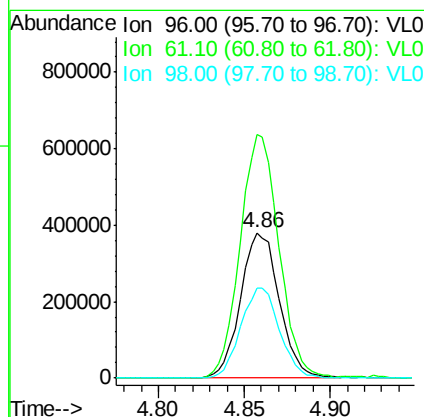
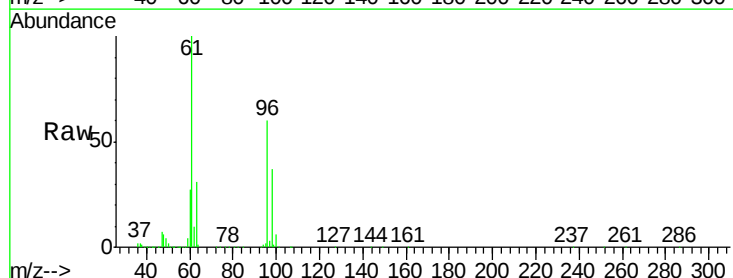
RT: 4.86 min Scan# 644

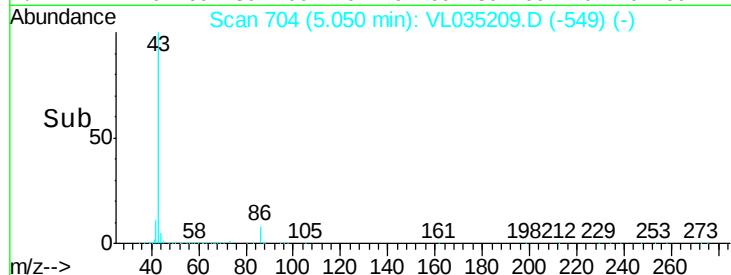
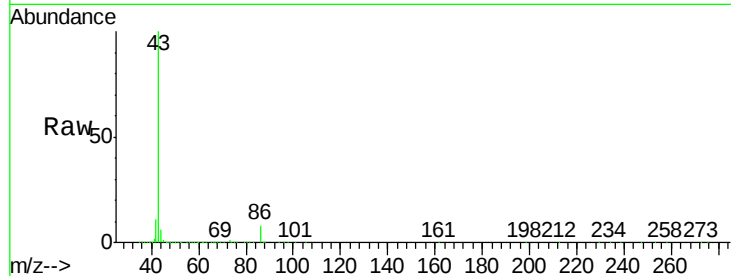
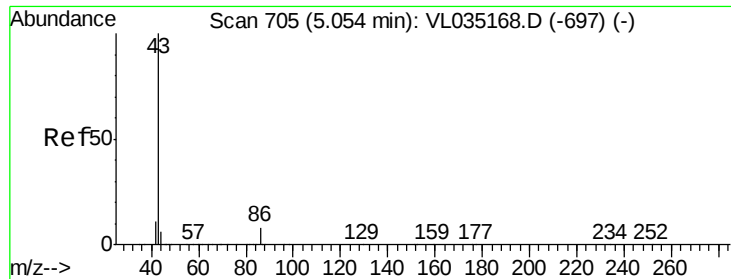
Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Tgt Ion:	96	Resp:	594535
Ion Ratio	Lower	Upper	
96	100		
61	167.4	136.5	204.7
98	62.2	47.5	71.3





#23

Vinyl Acetate

Concen: 9.994 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Tot Ion: 43 Resp: 1805258

Ion Ratio Lower Upper

43 100

86 7.8 6.2 9.2

42 10.5 9.1 13.7

44 5.7 4.6 6.8

Instrument :

MSVOA_L

ClientSampleId :

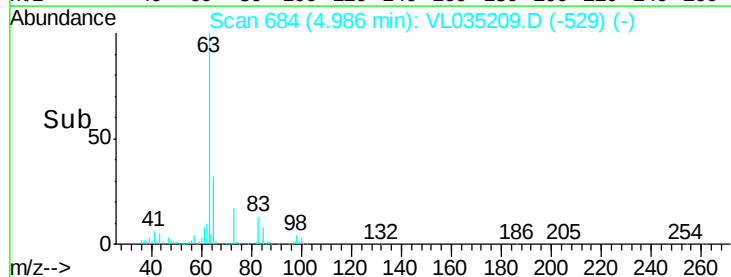
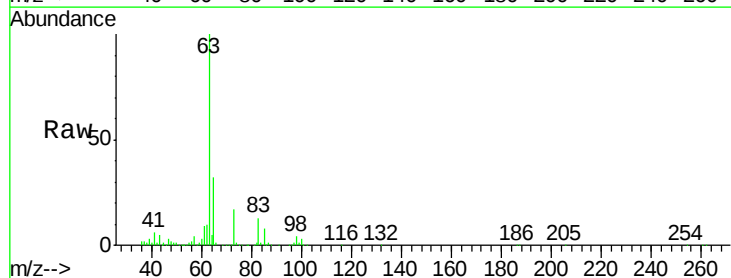
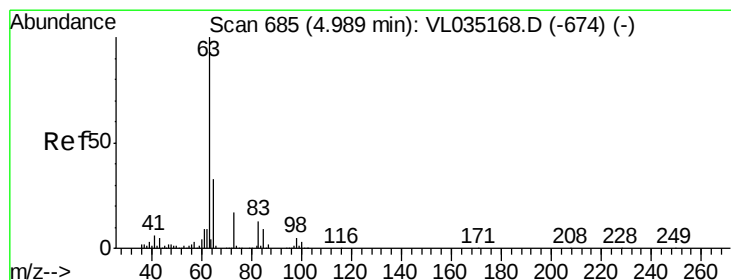
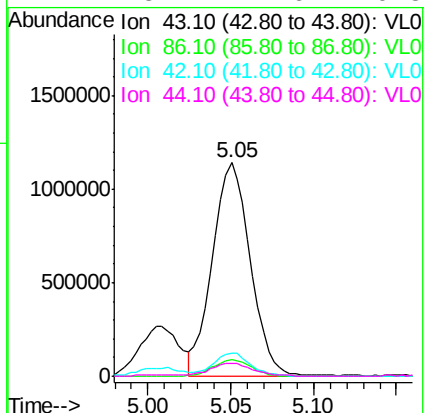
VSTDCCC010

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 9.480 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

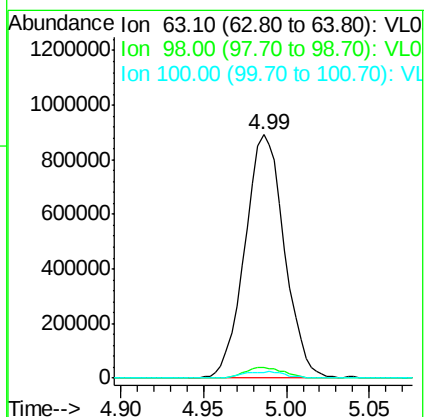
Tgt Ion: 63 Resp: 1470573

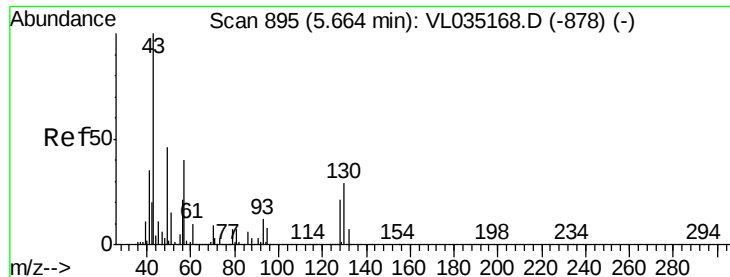
Ion Ratio Lower Upper

63 100

98 4.4 2.4 7.1

100 2.6 1.4 4.0





#25

Ethyl Acetate

Concen: 9.776 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2531721

Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.5	12.7
61	9.7	8.1	12.1
70	7.6	6.3	9.5

43 100

45 10.2 8.5 12.7

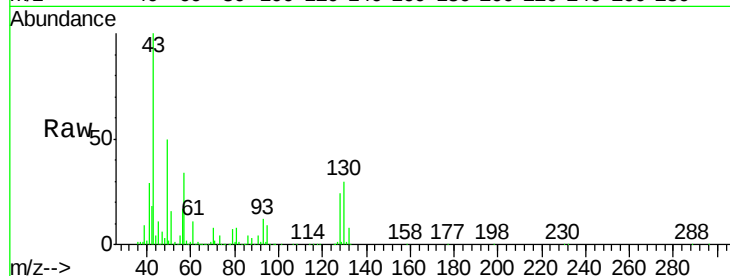
61 9.7 8.1 12.1

70 7.6 6.3 9.5

Manual Integrations
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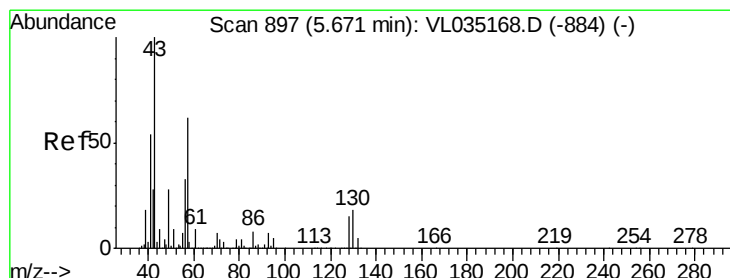
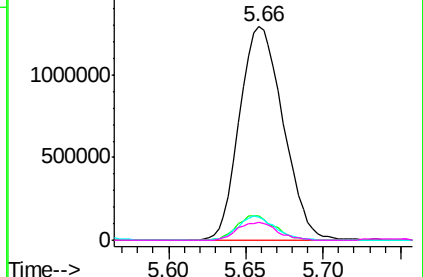
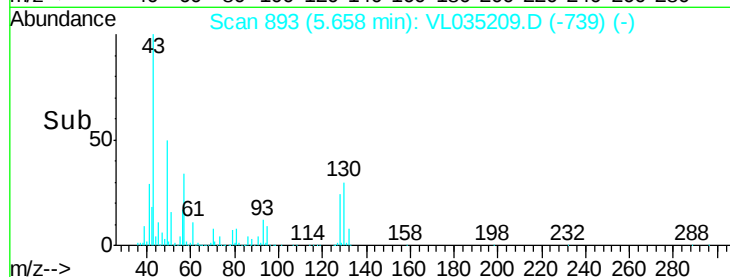
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

Time-->



#26

Hexane

Concen: 10.011 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Tgt Ion: 57 Resp: 1143052

Ion	Ratio	Lower	Upper
57	100		
41	91.5	72.9	109.3
43	222.2	179.5	269.3
56	53.1	42.9	64.3

57 100

41 91.5 72.9 109.3

43 222.2 179.5 269.3

56 53.1 42.9 64.3

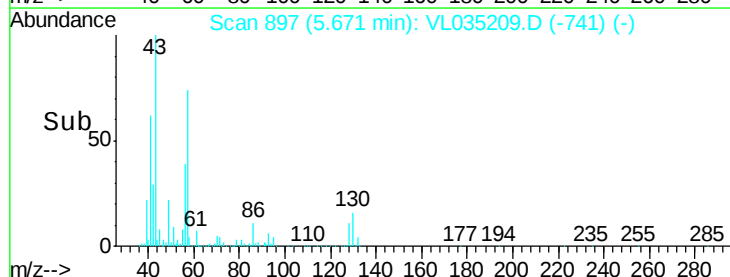
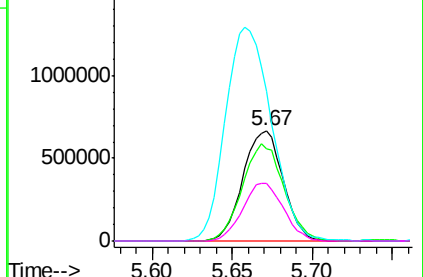
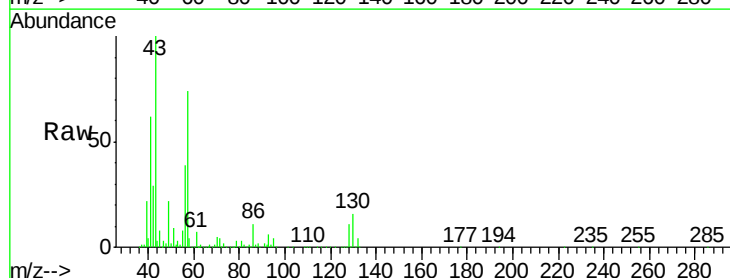
Abundance Ion 57.10 (56.80 to 57.80): VL0

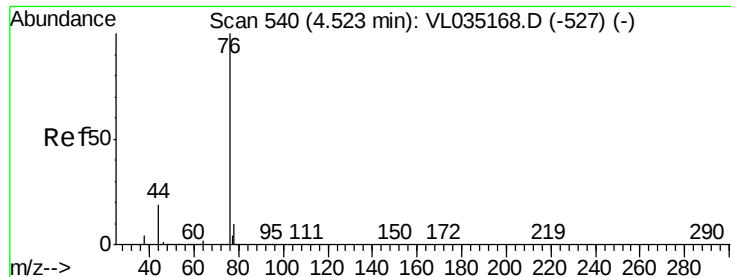
Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

Time-->





#27

Carbon Disulfide

Concen: 9.951 ppbv

RT: 4.52 min Scan# 538

Delta R.T. -0.01 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1586666

Ion Ratio Lower Upper

76 100

44 19.2 14.9 22.3

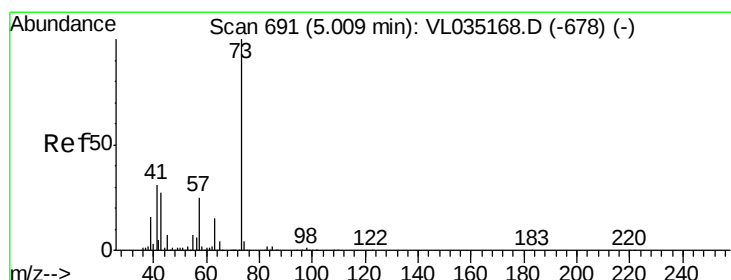
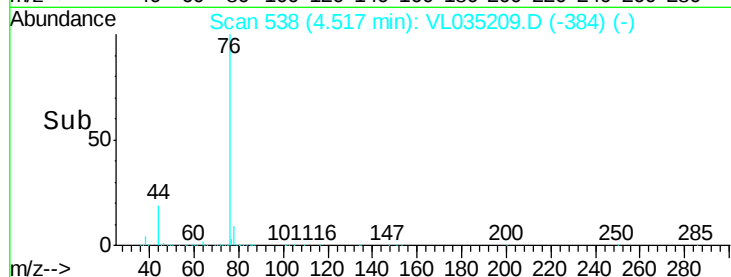
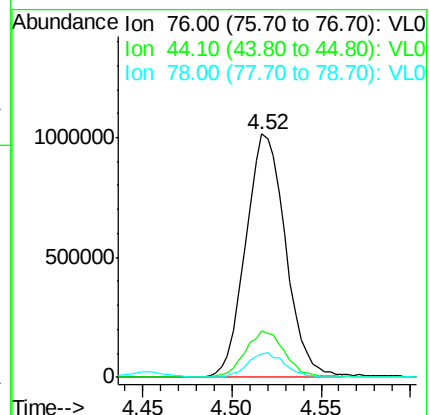
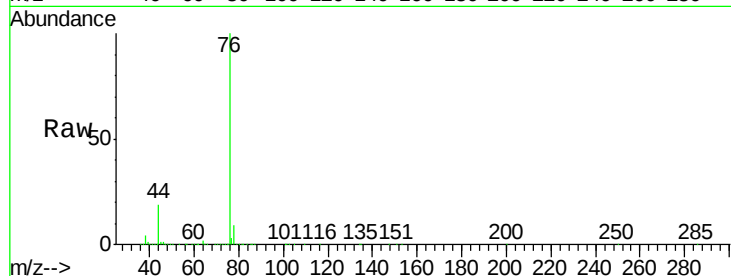
78 9.7 7.5 11.3

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 10.001 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL035209.D

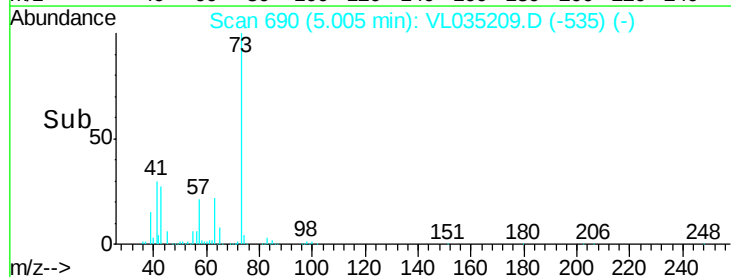
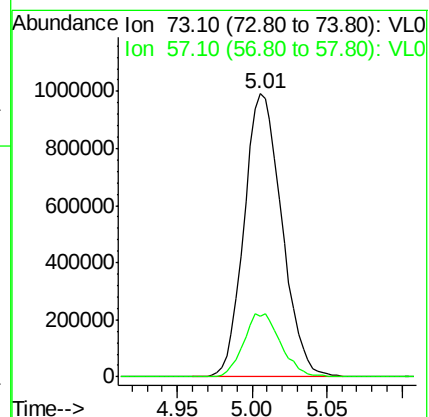
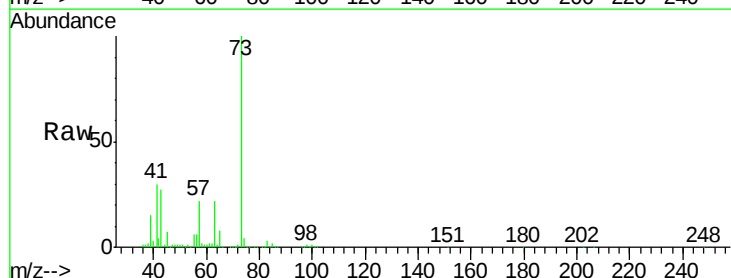
Acq: 21 Jul 2020 10:16

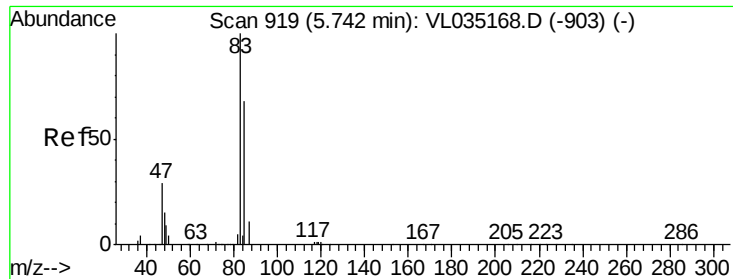
Tgt Ion: 73 Resp: 1739789

Ion Ratio Lower Upper

73 100

57 22.3 18.1 27.1





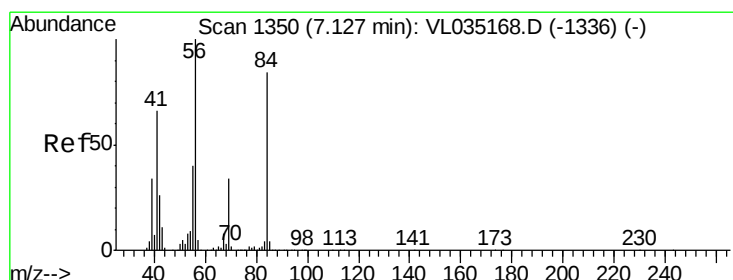
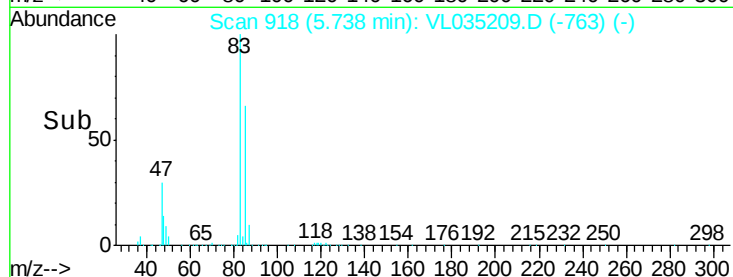
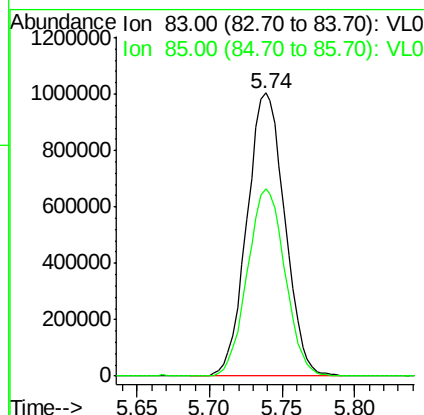
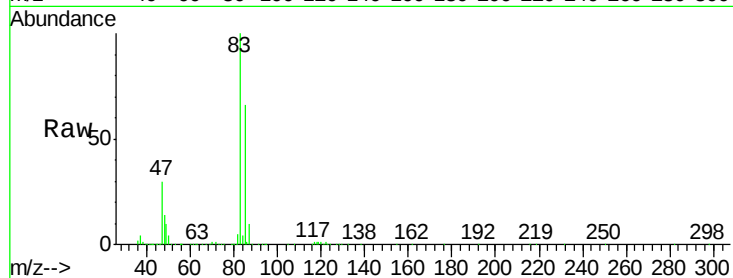
#29
Chloroform
Concen: 9.528 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1823854
Ion Ratio Lower Upper
83 100
85 66.1 54.3 81.5

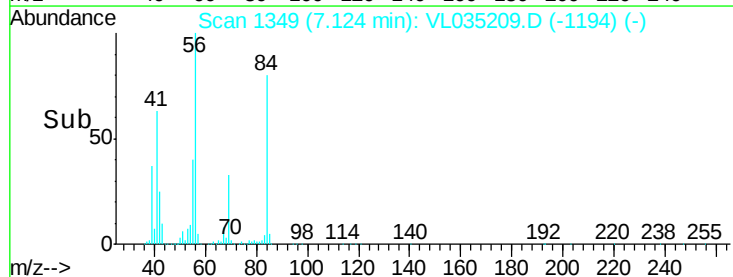
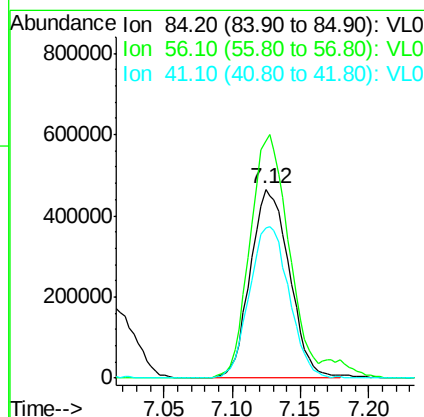
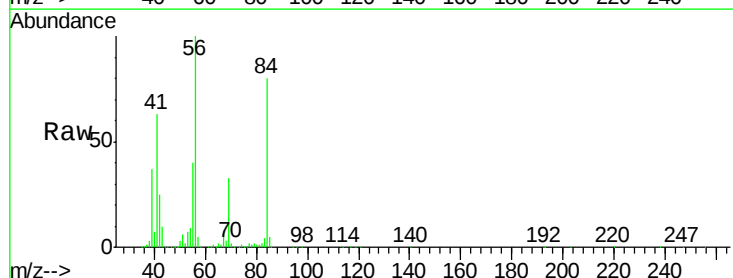
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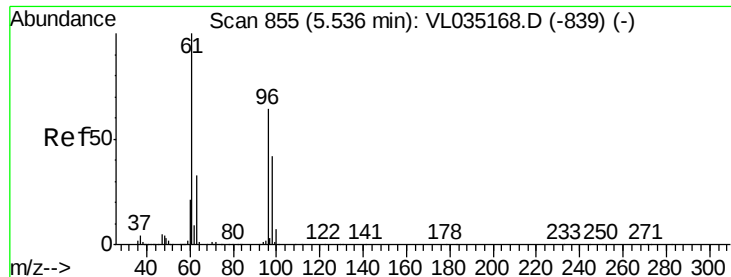
MMDadoda
7/23/2020 3:00:12 PM



#30
Cyclohexane
Concen: 10.942 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion: 84 Resp: 924428
Ion Ratio Lower Upper
84 100
56 135.1 105.6 158.4
41 81.8 64.9 97.3





#31

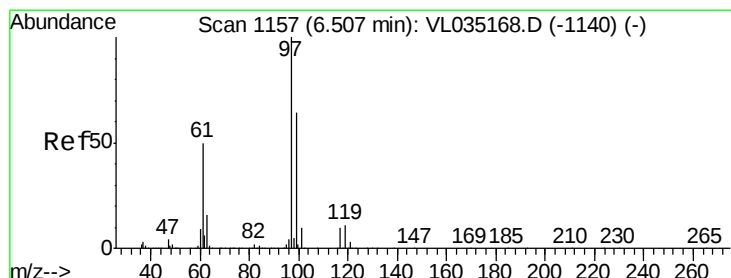
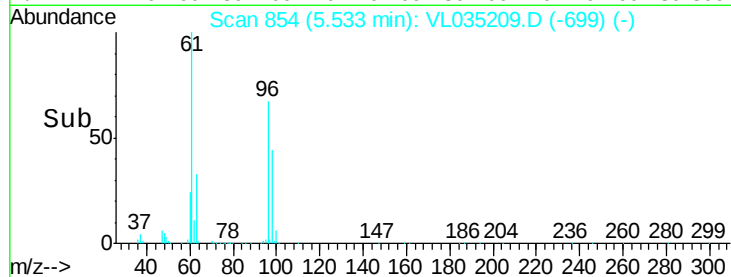
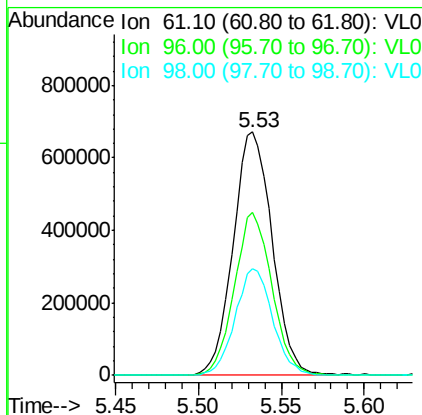
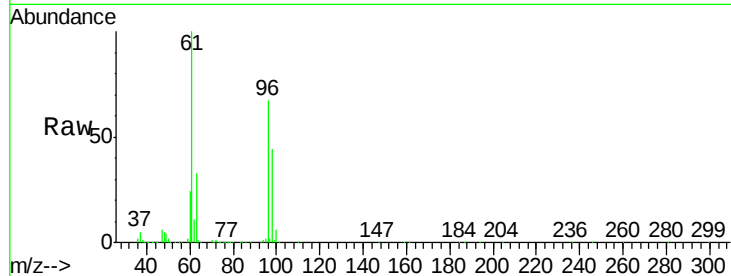
cis-1,2-Dichloroethene
Concen: 10.183 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.9	51.3	76.9
98	43.5	33.8	50.8

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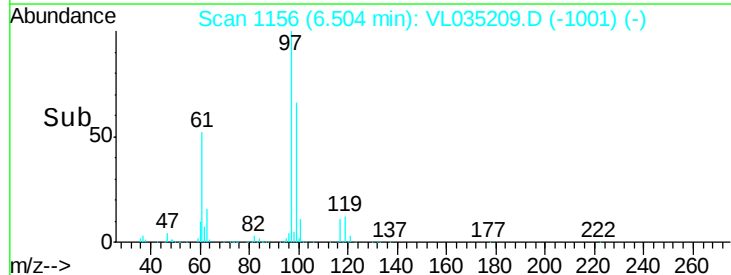
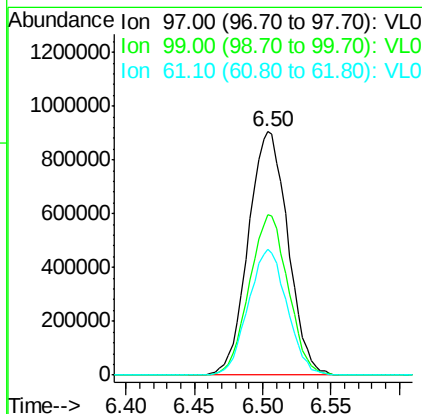
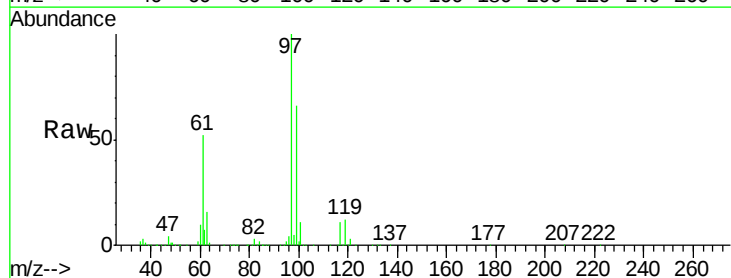
MMDadoda
7/23/2020 3:00:12 PM

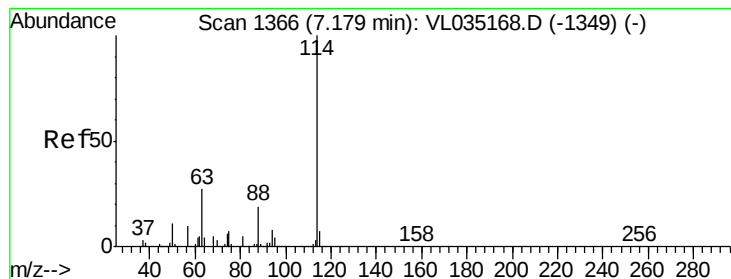


#32

1,1,1-Trichloroethane
Concen: 9.481 ppbv
RT: 6.50 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.2	76.8
61	50.7	40.9	61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 2942121

Ion Ratio Lower Upper

114 100

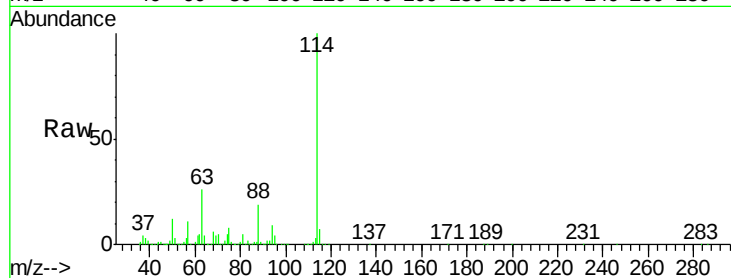
63 27.7 22.0 33.0

88 19.2 15.4 23.0

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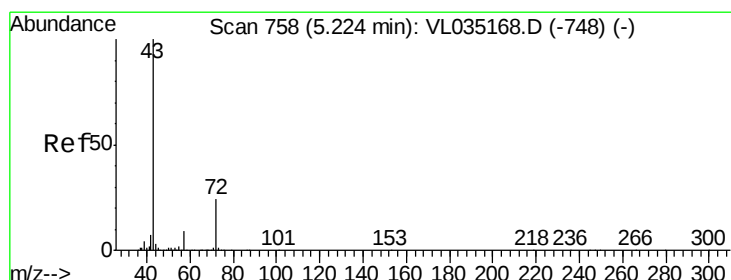
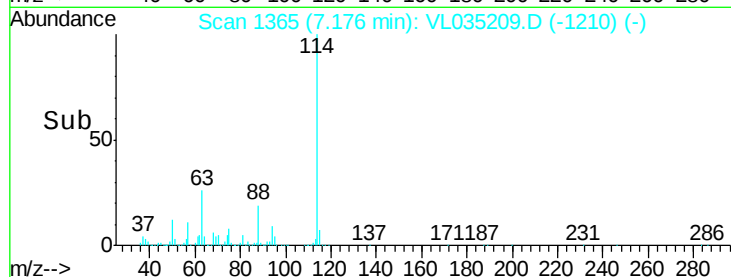
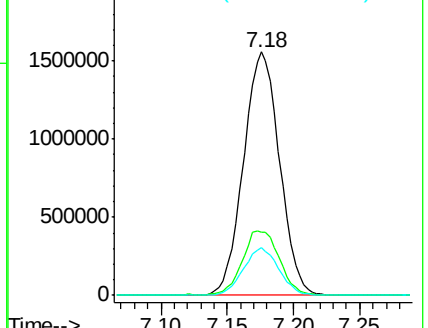
7/23/2020 3:00:12 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.771 ppbv

RT: 5.22 min Scan# 757

Delta R.T. -0.00 min

Lab File: VL035209.D

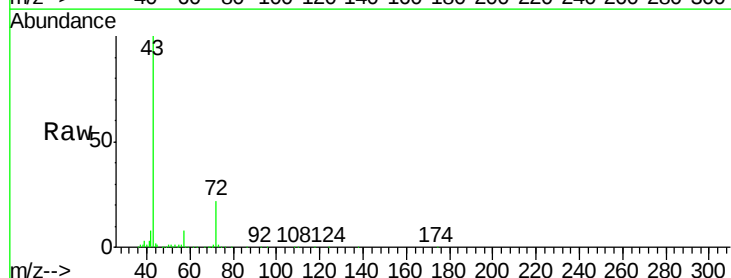
Acq: 21 Jul 2020 10:16

Tgt Ion: 43 Resp: 1534329

Ion Ratio Lower Upper

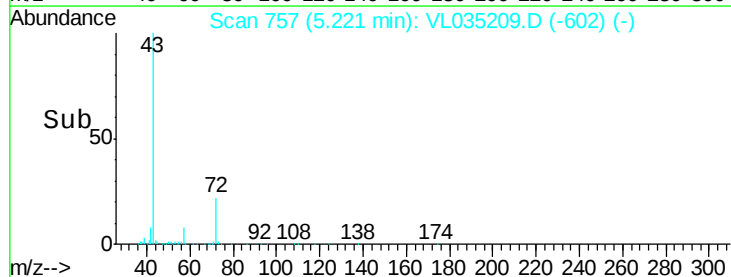
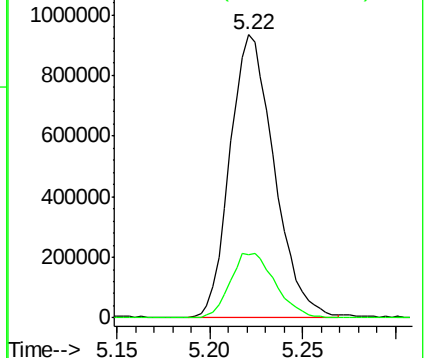
43 100

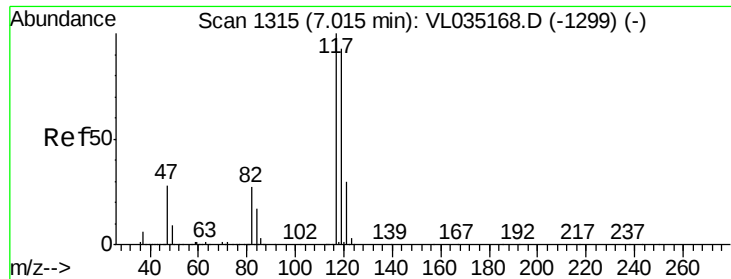
72 23.7 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.961 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1902306

Ion Ratio Lower Upper

117 100

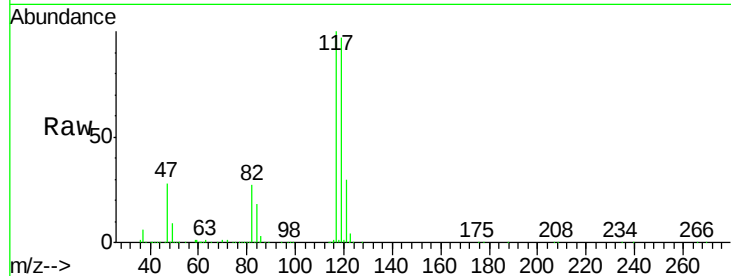
119 97.2 74.8 112.2

121 30.2 24.2 36.2

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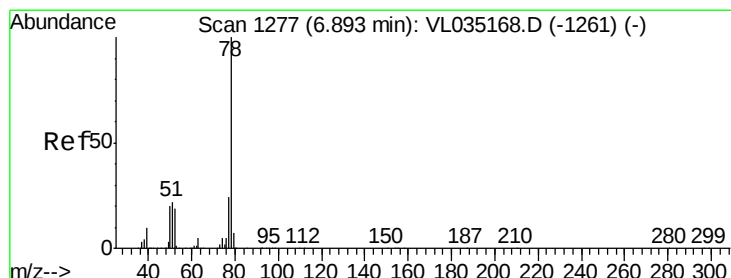
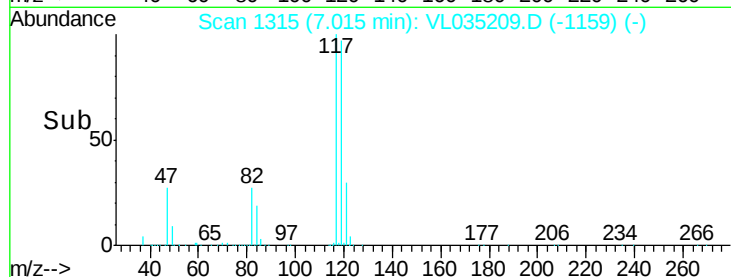
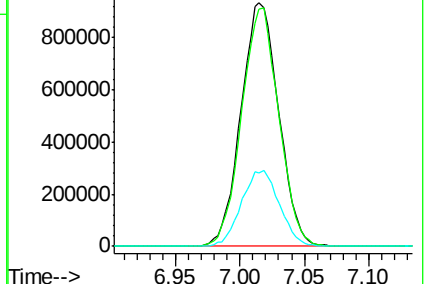
7/23/2020 3:00:12 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.320 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

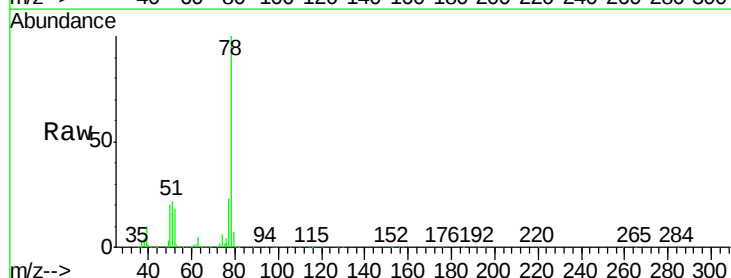
Tgt Ion: 78 Resp: 2197560

Ion Ratio Lower Upper

78 100

77 23.2 19.3 28.9

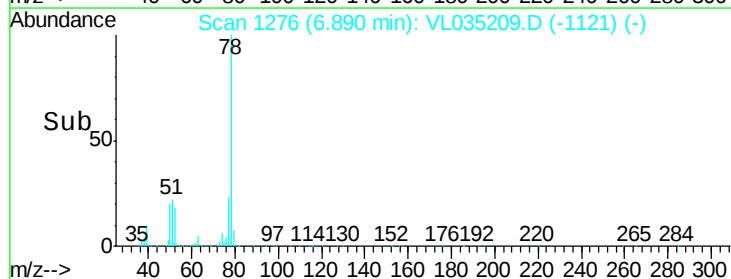
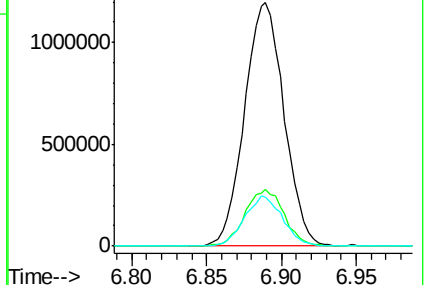
50 19.9 16.0 24.0

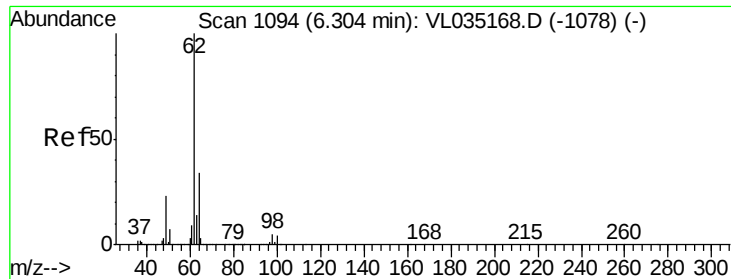


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





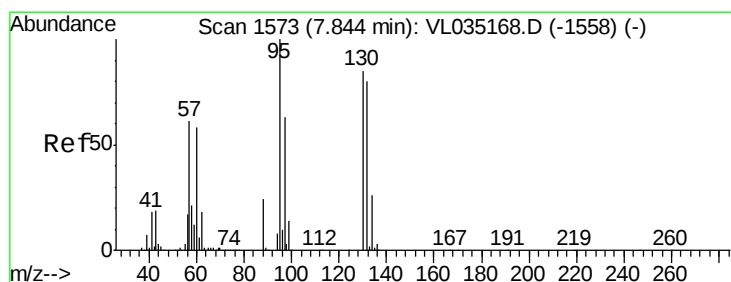
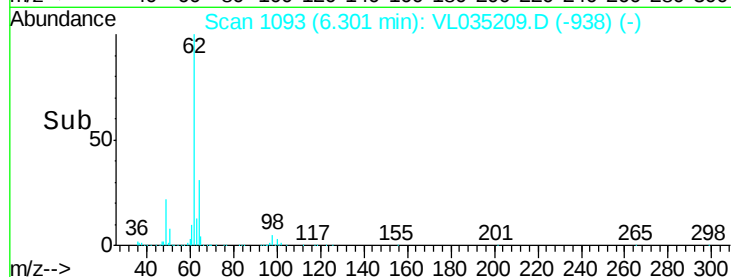
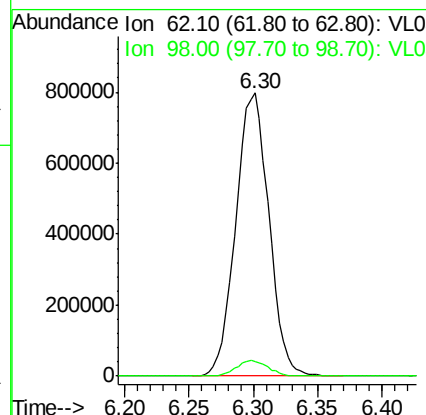
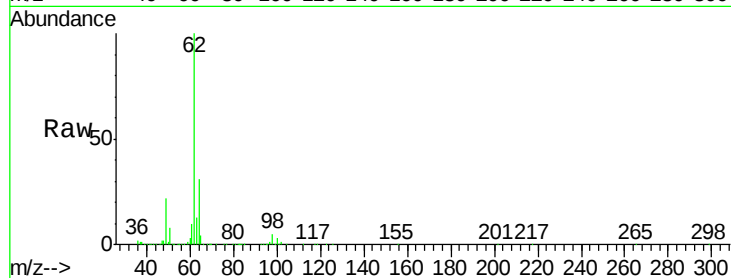
#37
 1,2-Dichloroethane
 Concen: 9.993 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.6	6.8

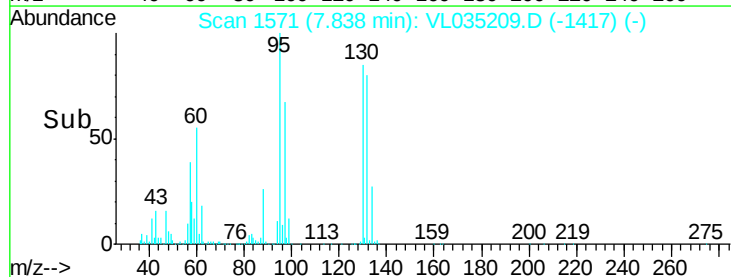
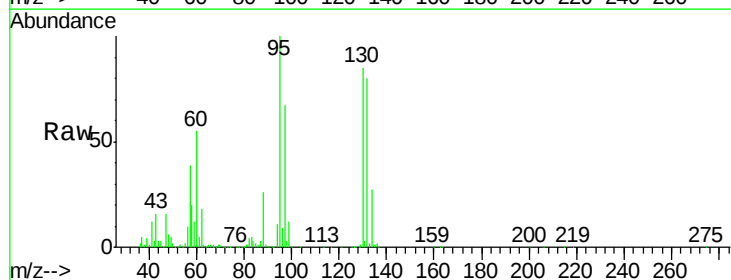
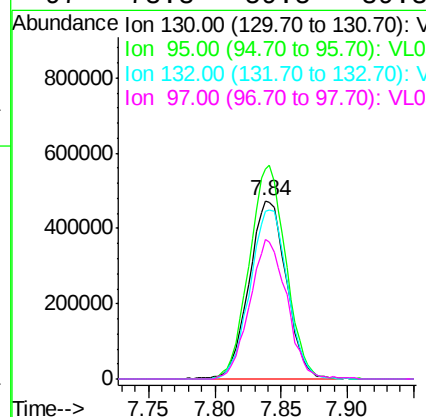
Manual Integrations
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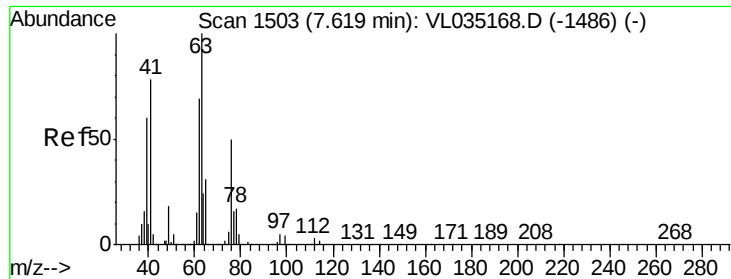
MMDadoda
 7/23/2020 3:00:12 PM



#38
 Trichloroethene
 Concen: 10.589 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.0	93.8	140.8
132	94.2	75.0	112.4
97	78.8	59.5	89.3





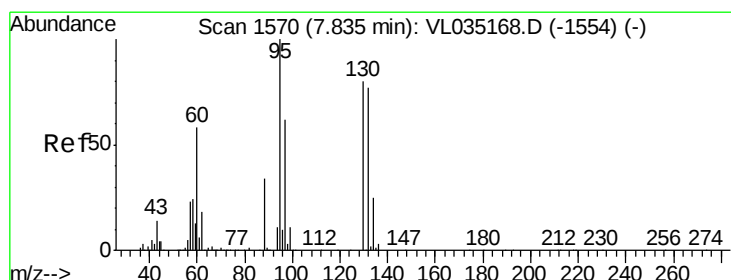
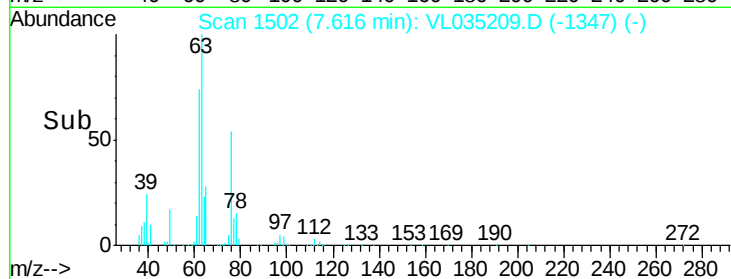
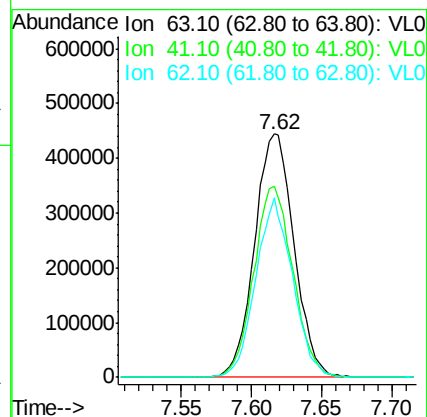
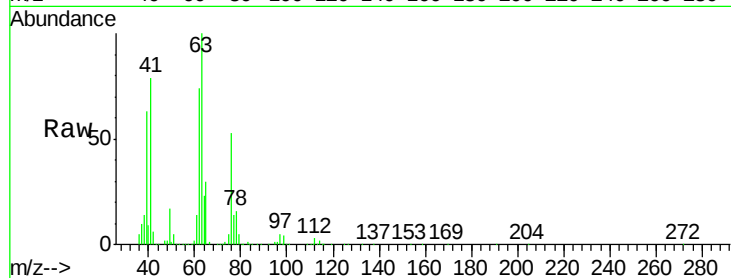
#39
 1,2-Dichloropropane
 Concen: 10.279 ppbv
 RT: 7.62 min Scan# 1502
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.6	62.6	94.0
62	73.5	55.0	82.6

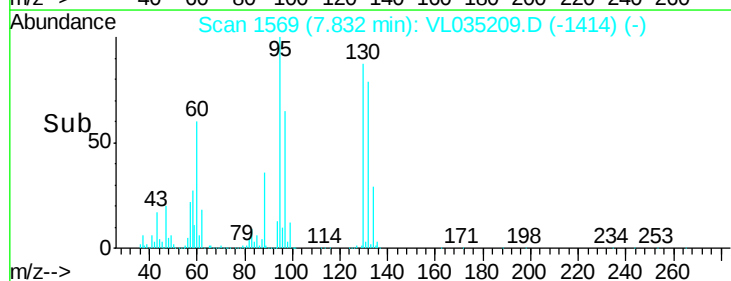
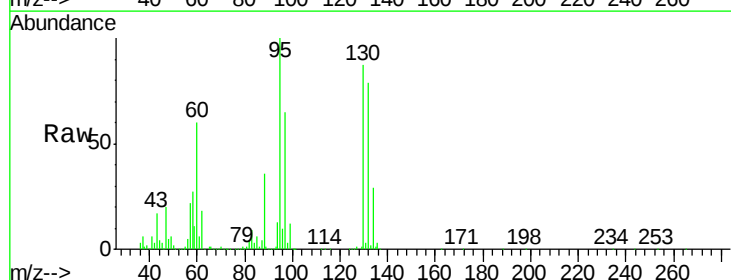
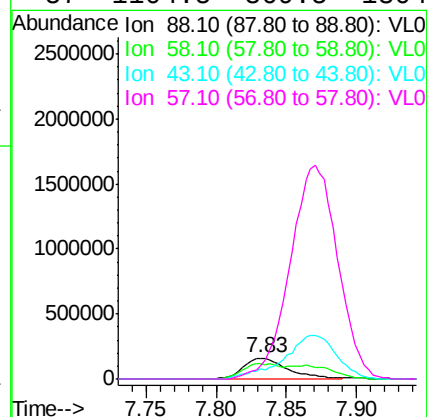
Manual Integrations
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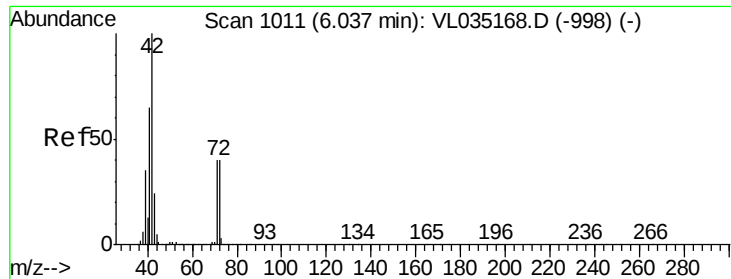
MMDadoda
 7/23/2020 3:00:12 PM



#40
 1,4-Dioxane
 Concen: 10.423 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.5	100.2	150.4
43	250.4	199.8	299.8
57	1104.5	869.5	1304.3





#41

Tetrahydrofuran

Concen: 10.785 ppbv

RT: 6.03 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

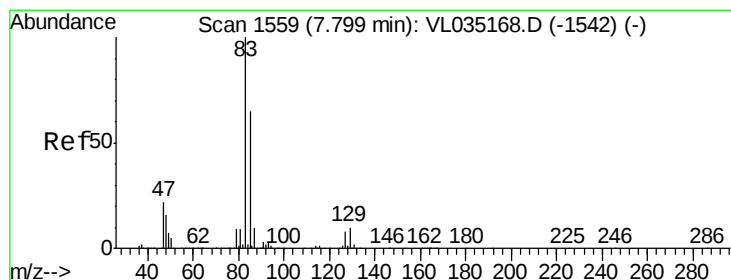
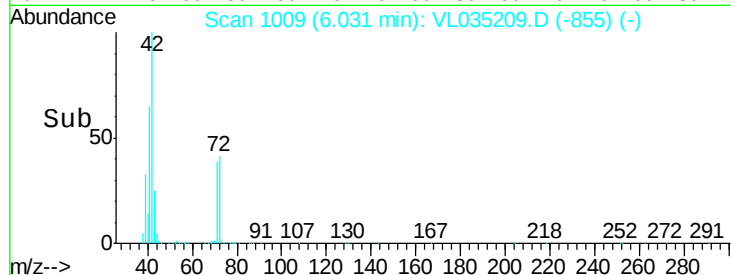
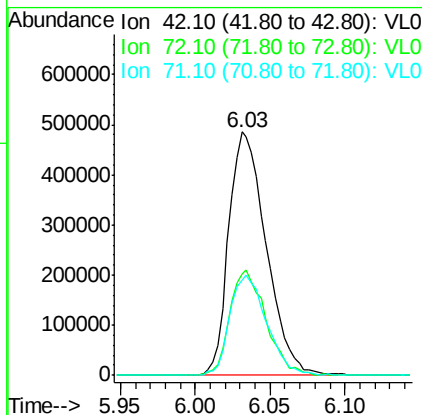
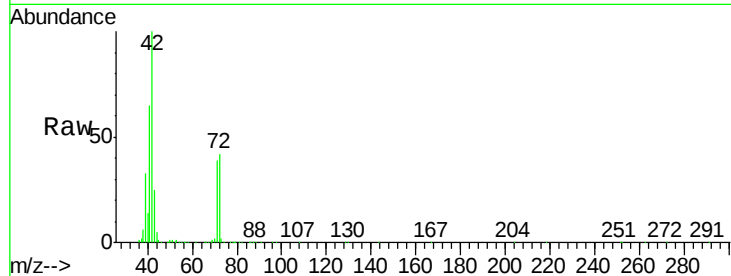
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	847460
Ion Ratio		Lower	Upper
42	100		
72	41.9	33.4	50.2
71	40.6	31.9	47.9

Manual Integrations
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7/23/2020 3:00:12 PM



#42

Bromodichloromethane

Concen: 10.271 ppbv

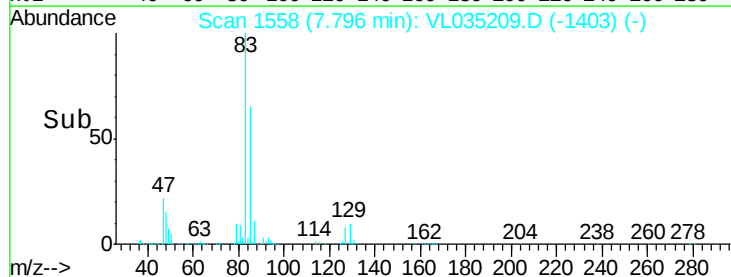
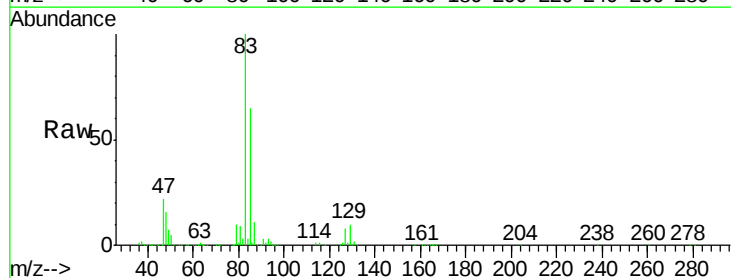
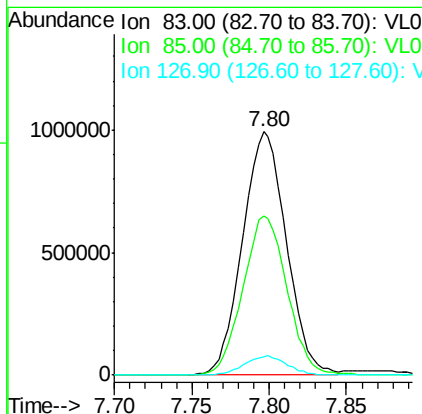
RT: 7.80 min Scan# 1558

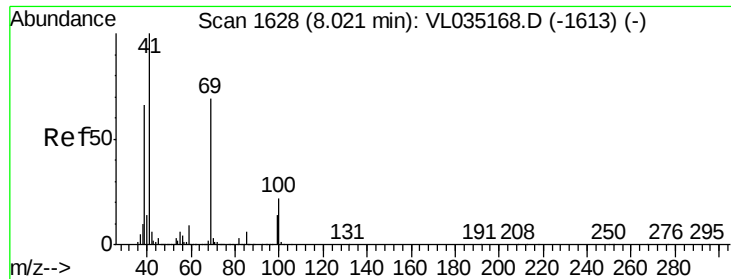
Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Tgt Ion:	83	Resp:	1959969
Ion Ratio		Lower	Upper
83	100		
85	65.1	52.2	78.4
127	7.6	6.3	9.5





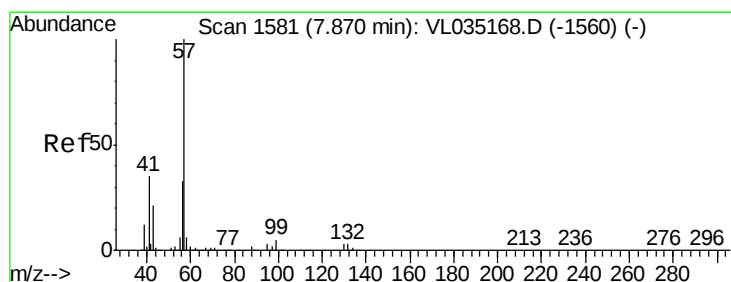
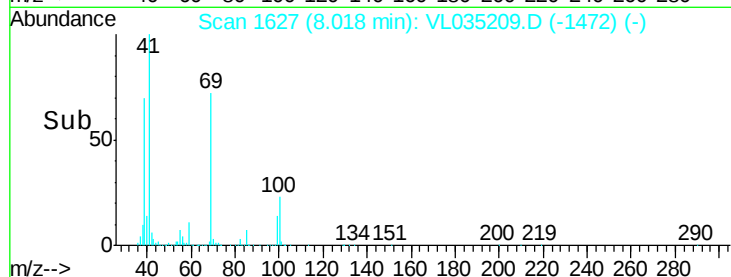
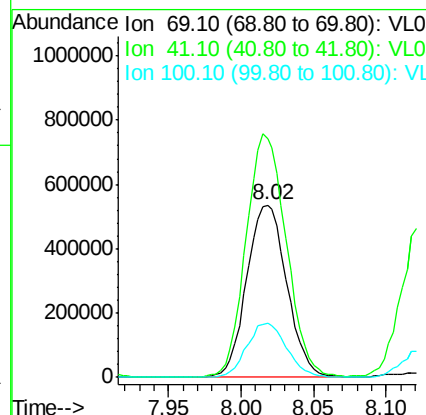
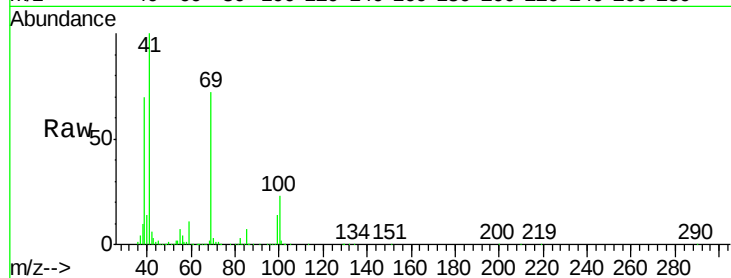
#43
Methvl Methacrylate
Concen: 11.436 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1029383
Ion Ratio Lower Upper
69 100
41 141.9 116.3 174.5
100 31.5 25.6 38.4

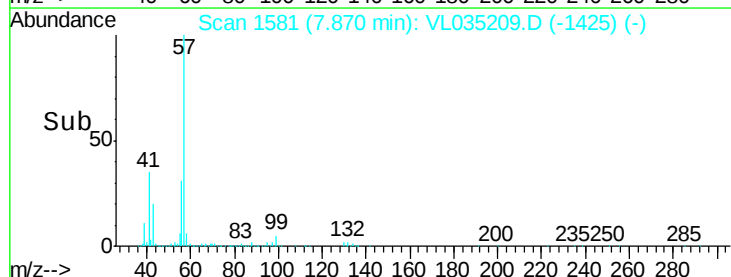
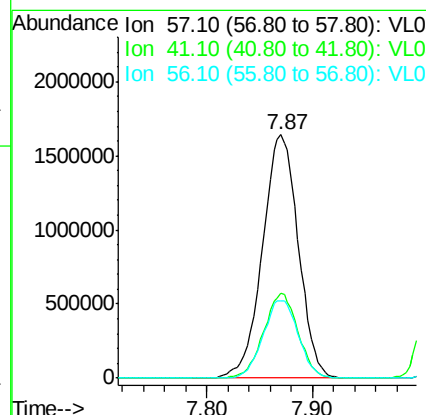
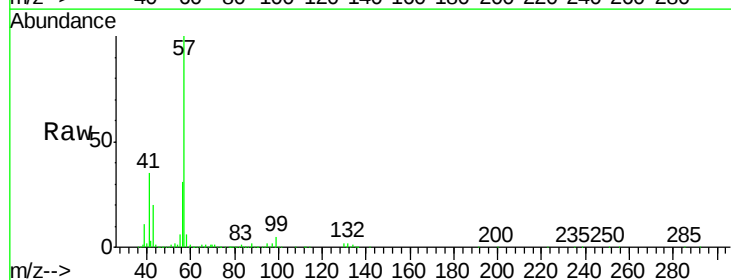
Manual Integrations
APPROVED

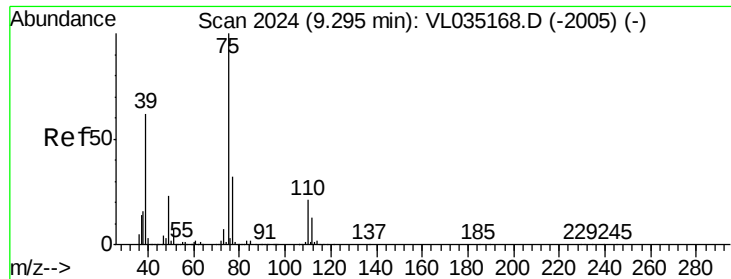
MMDadoda
7/23/2020 3:00:12 PM



#44
2,2,4-Trimethylpentane
Concen: 10.539 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion: 57 Resp: 3873765
Ion Ratio Lower Upper
57 100
41 33.5 27.0 40.6
56 31.6 25.5 38.3





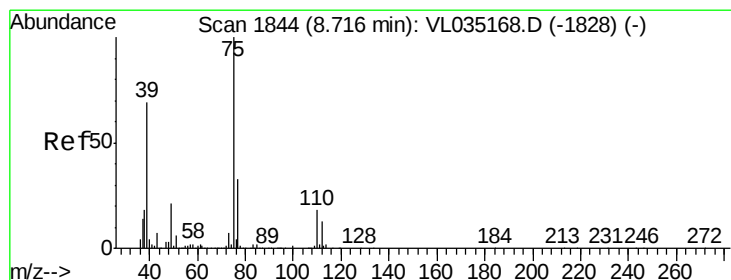
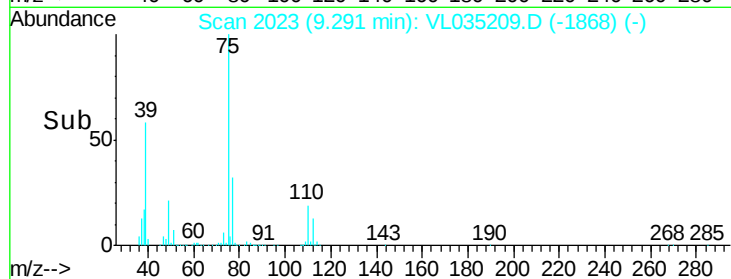
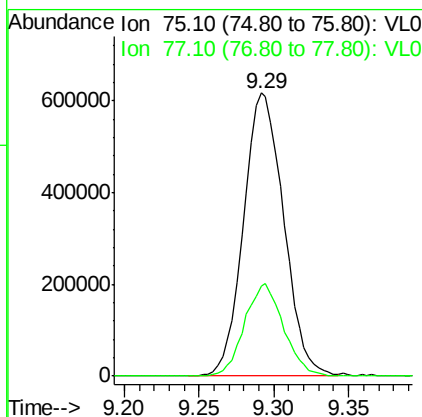
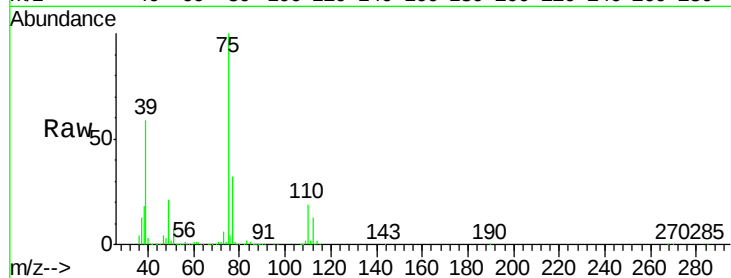
#45
t-1,3-Dichloropropene
Concen: 12.188 ppbv
RT: 9.29 min Scan# 2023
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1152653
Ion Ratio Lower Upper
75 100
77 31.6 25.8 38.8

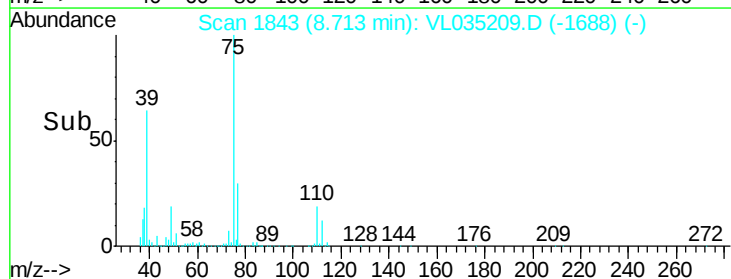
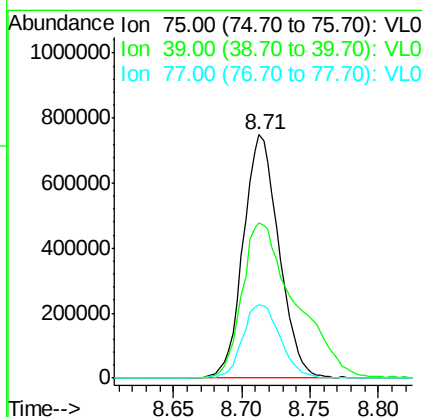
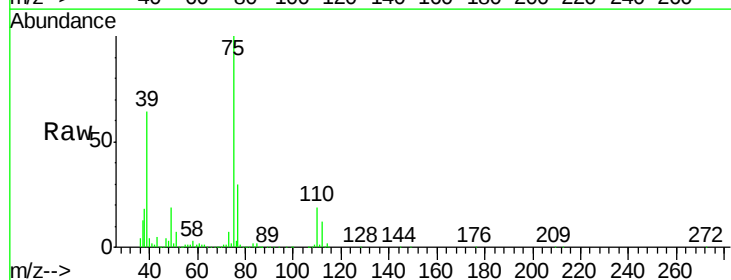
Manual Integrations
APPROVED

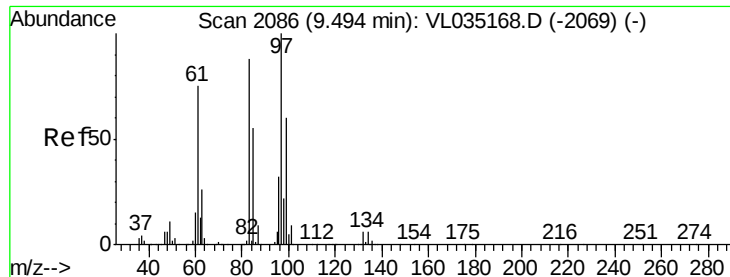
MMDadoda
7/23/2020 3:00:12 PM



#46
cis-1,3-Dichloropropene
Concen: 12.110 ppbv
RT: 8.71 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion: 75 Resp: 1357712
Ion Ratio Lower Upper
75 100
39 63.9 55.2 82.8
77 30.2 26.0 39.0





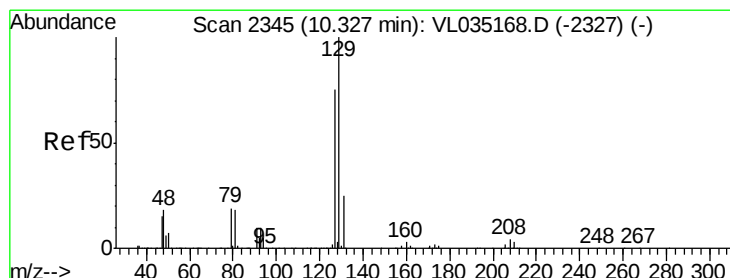
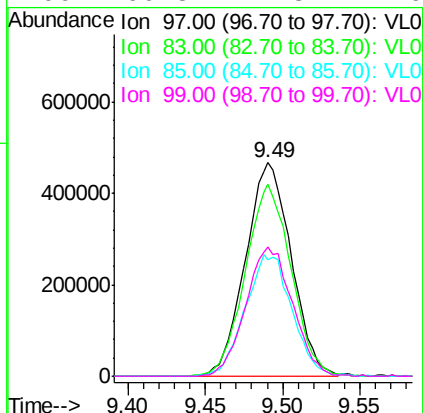
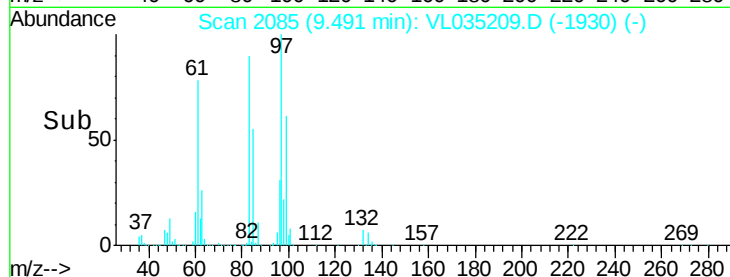
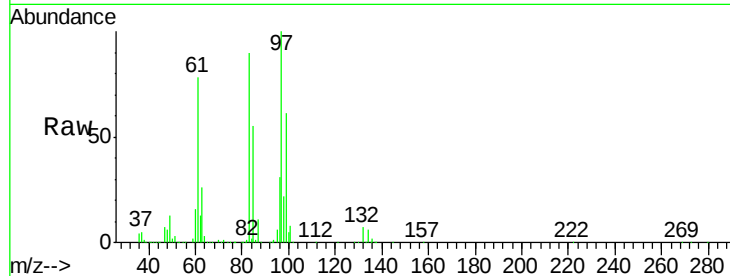
#47
 1,1,2-Trichloroethane
 Concen: 10.395 ppbv
 RT: 9.49 min Scan# 2085
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		963517		
83	89.8	70.3	105.5		
85	54.8	44.3	66.5		
99	60.8	47.8	71.6		

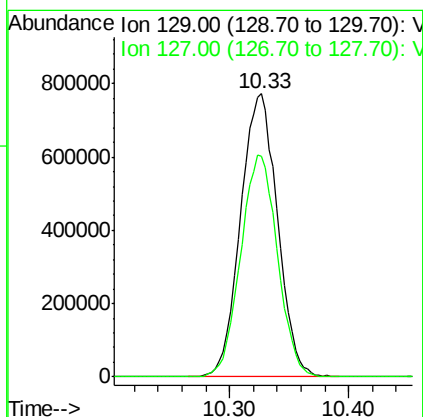
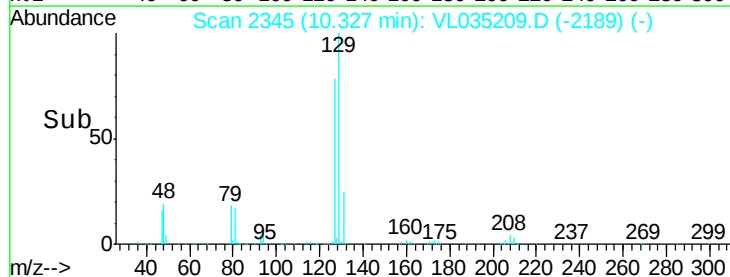
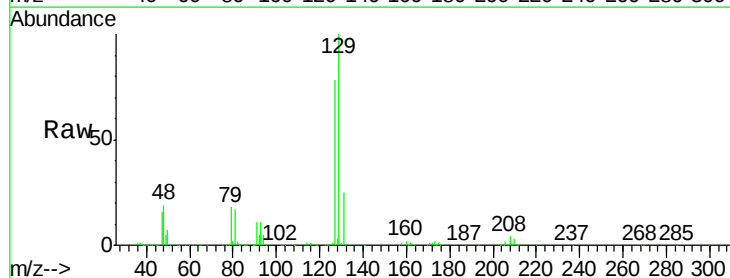
Manual Integrations
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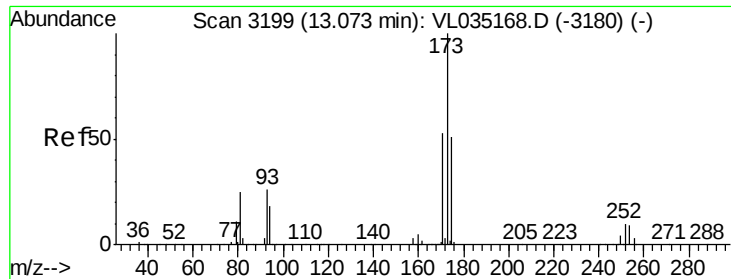
MMDadoda
 7/23/2020 3:00:12 PM



#48
 Dibromochloromethane
 Concen: 11.017 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. 0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1661562		
127	78.3	38.8	116.3		





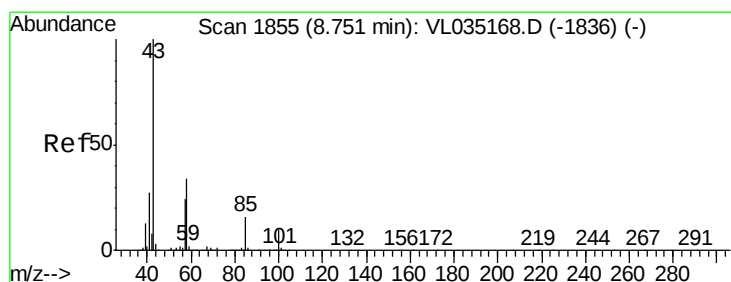
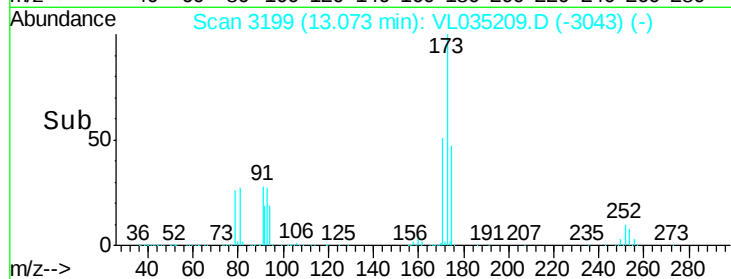
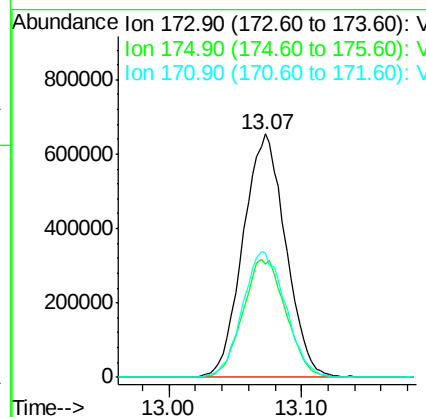
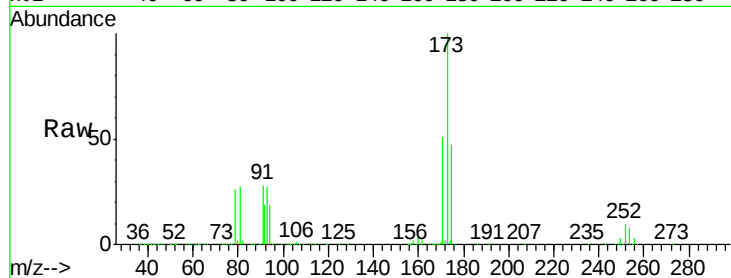
#49
Bromoform
Concen: 11.075 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. 0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1461059
Ion Ratio Lower Upper
173 100
175 48.9 39.7 59.5
171 52.6 41.6 62.4

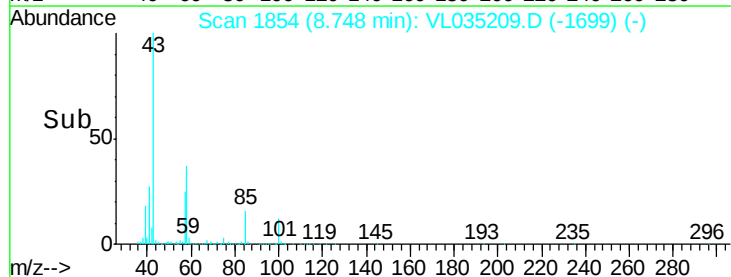
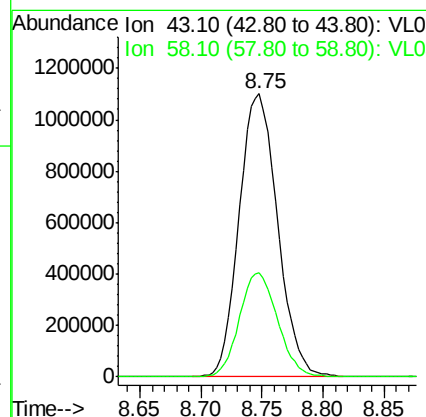
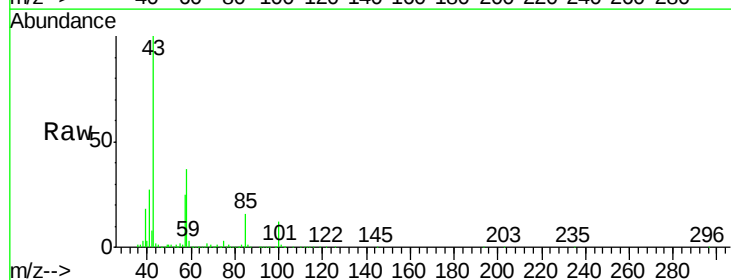
Manual Integrations
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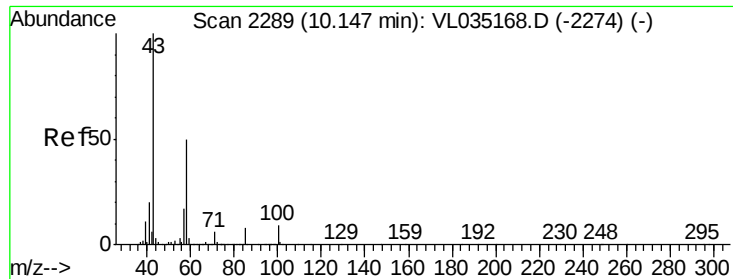
MMDadoda
7/23/2020 3:00:12 PM



#50
4-Methyl-2-Pentanone
Concen: 10.677 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion: 43 Resp: 2406319
Ion Ratio Lower Upper
43 100
58 36.5 29.4 44.2





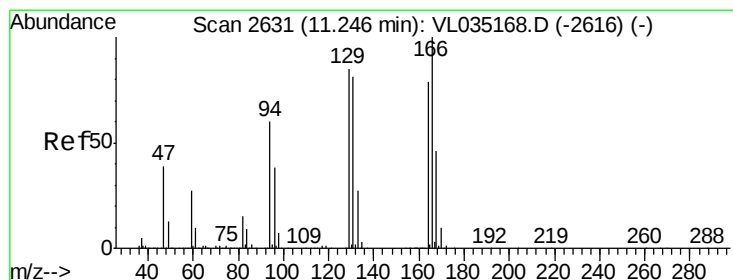
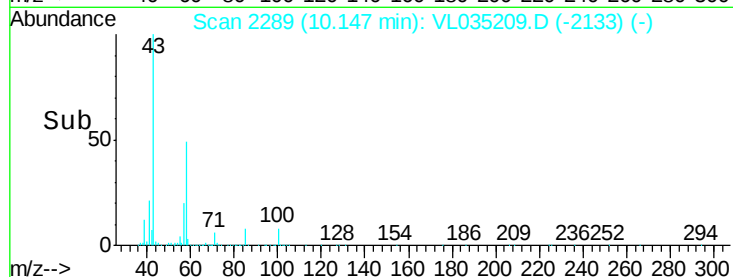
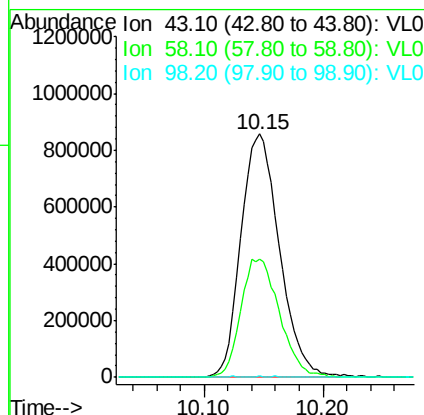
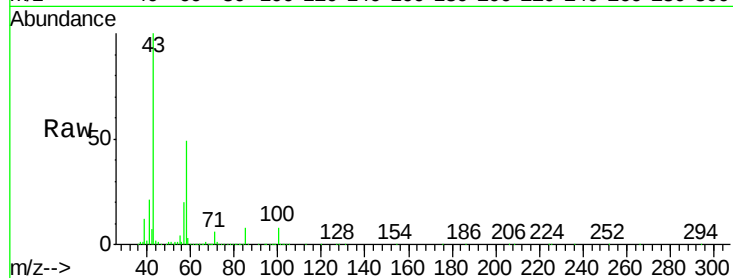
#51
2-Hexanone
Concen: 11.184 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. 0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1921913
Ion Ratio Lower Upper
43 100
58 49.0 39.4 59.0
98 0.6 0.3 0.5#

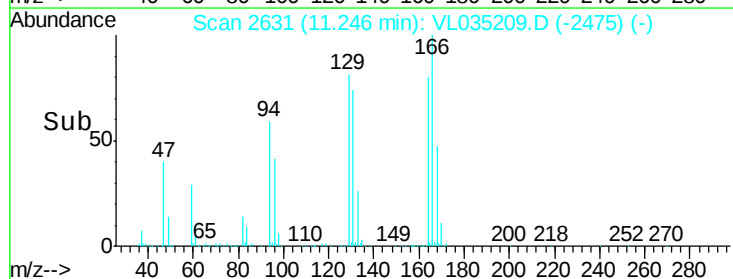
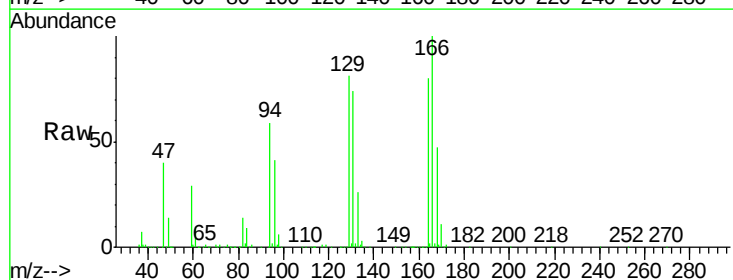
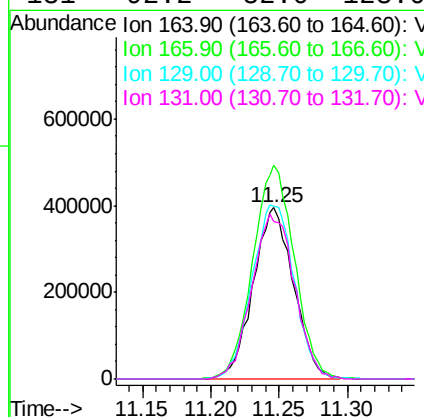
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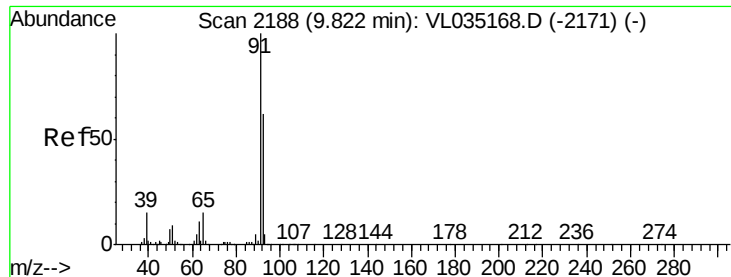
MMDadoda
7/23/2020 3:00:12 PM



#52
Tetrachloroethene
Concen: 10.228 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion: 164 Resp: 813425
Ion Ratio Lower Upper
164 100
166 124.9 100.7 151.1
129 101.3 85.8 128.6
131 92.2 82.0 123.0





#53

Toluene

Concen: 11.673 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2623295

Ion Ratio Lower Upper

91 100

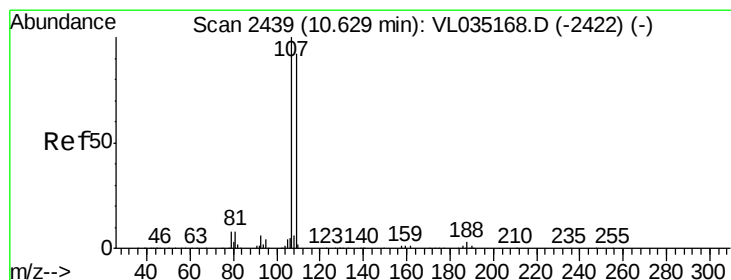
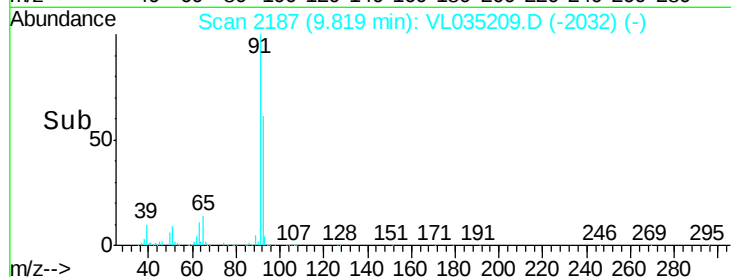
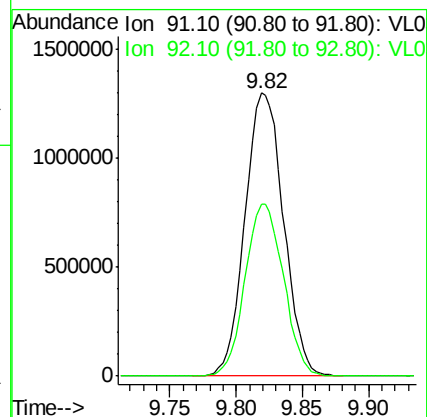
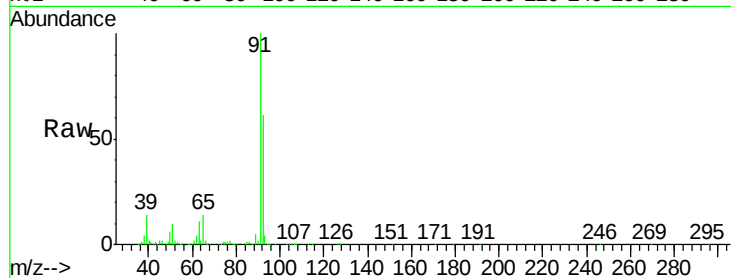
92 60.4 48.4 72.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.562 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. 0.00 min

Lab File: VL035209.D

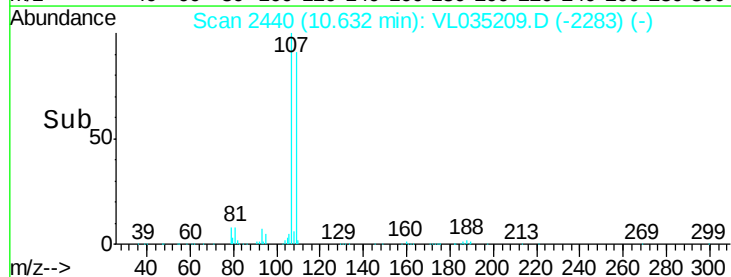
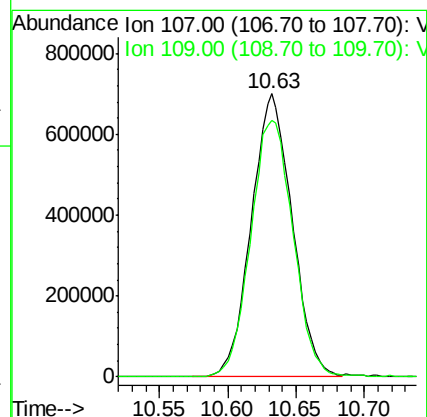
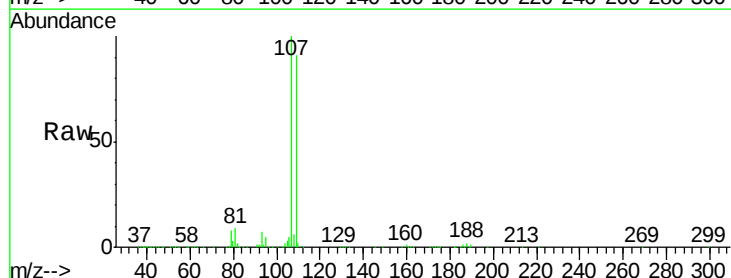
Acq: 21 Jul 2020 10:16

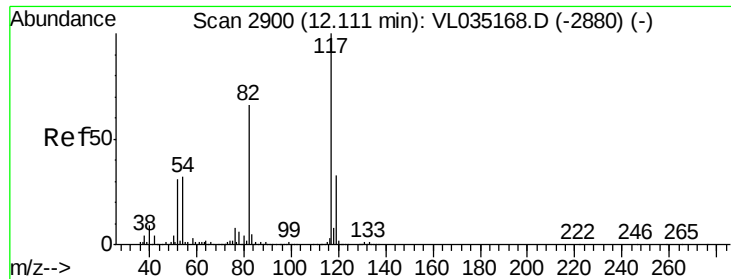
Tgt Ion: 107 Resp: 1452804

Ion Ratio Lower Upper

107 100

109 90.5 74.0 111.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.11 min Scan# 2901

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2967236

Ion Ratio Lower Upper

117 100

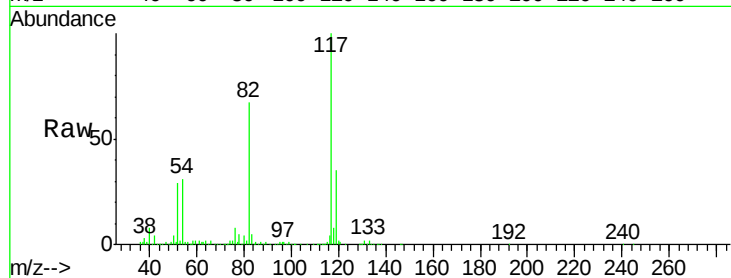
82 64.7 52.3 78.5

119 33.5 24.9 37.3

Manual Integrations
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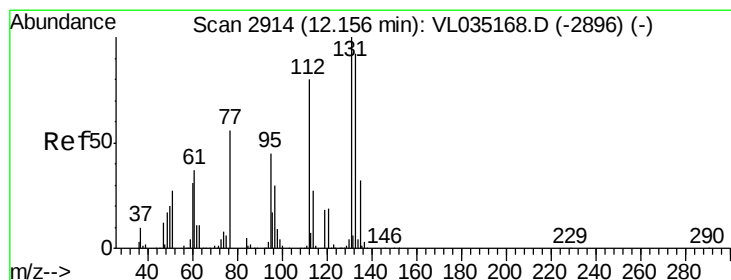
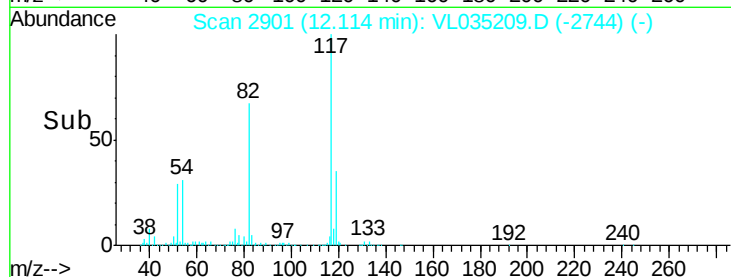
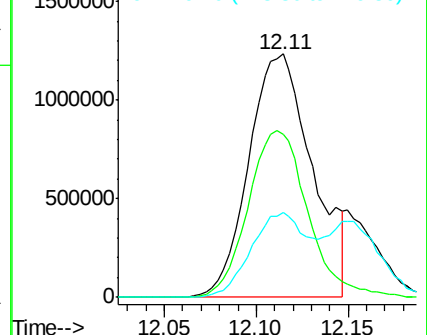
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.678 ppbv

RT: 12.15 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

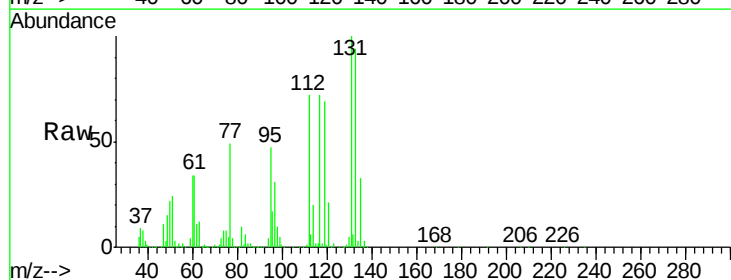
Tgt Ion:131 Resp: 1272224

Ion Ratio Lower Upper

131 100

133 94.7 75.4 113.2

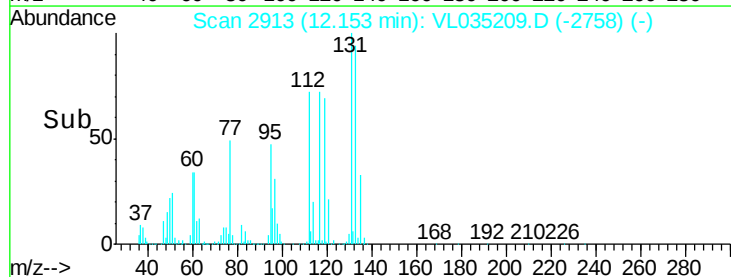
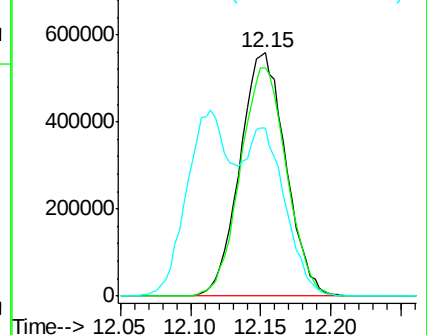
119 64.6 42.4 63.6#

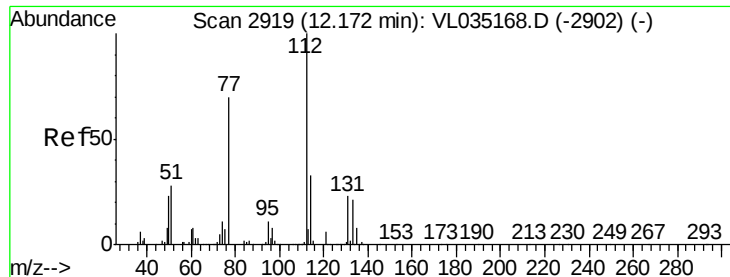


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.538 ppbv

RT: 12.17 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 2085882

Ion Ratio Lower Upper

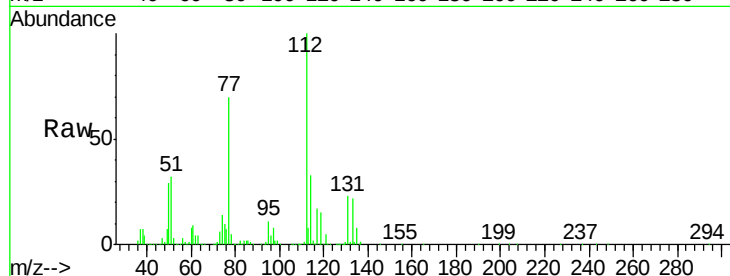
112 100

77 69.9 57.0 85.4

114 33.3 30.2 37.0

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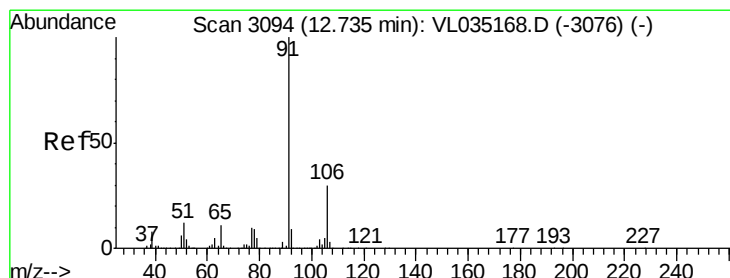
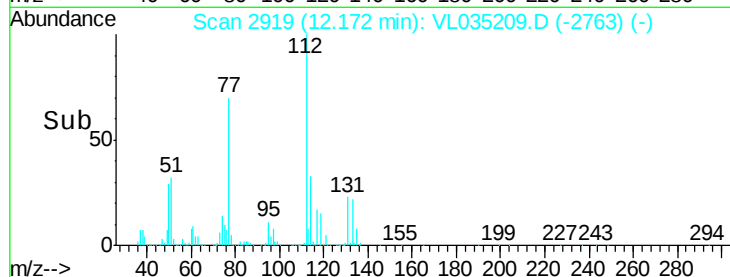
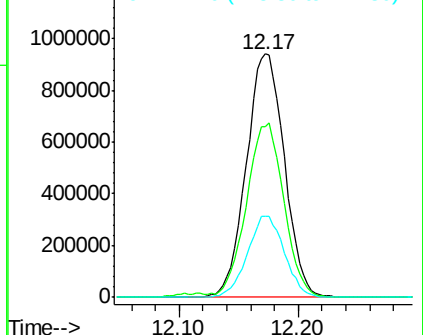
MMDadoda
7/23/2020 3:00:12 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.916 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL035209.D

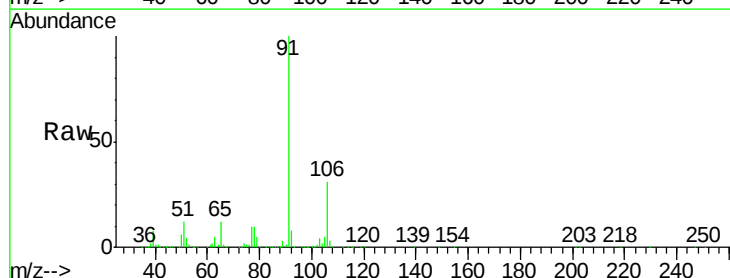
Acq: 21 Jul 2020 10:16

Tgt Ion: 91 Resp: 3580074

Ion Ratio Lower Upper

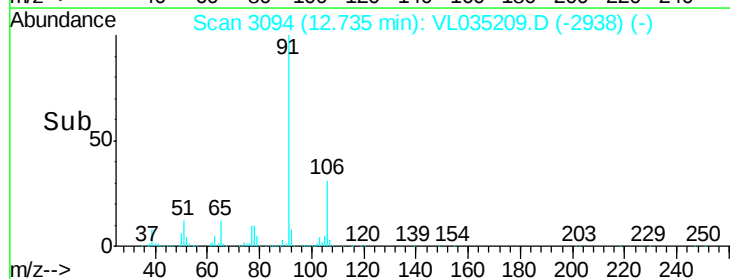
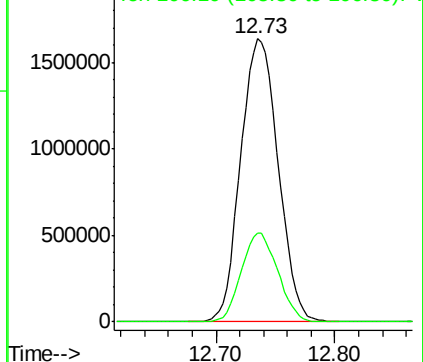
91 100

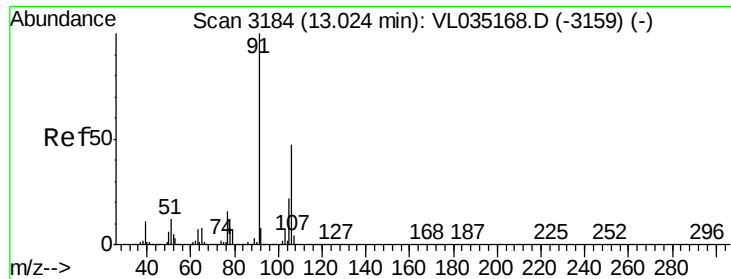
106 31.2 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





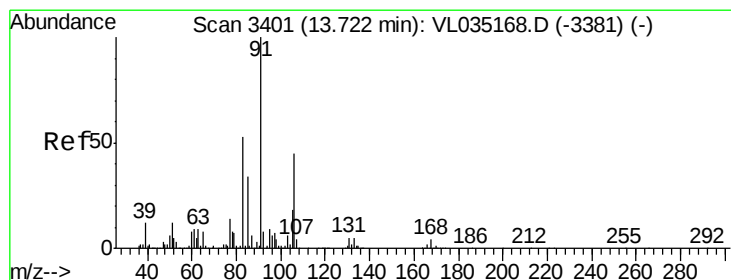
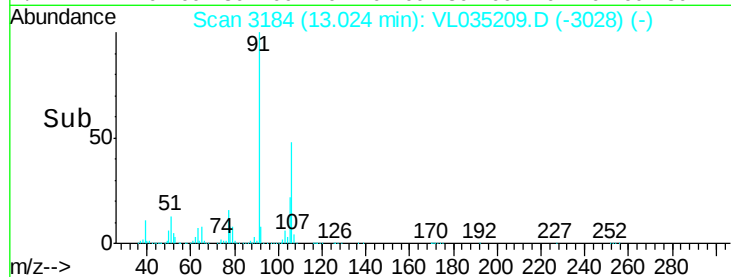
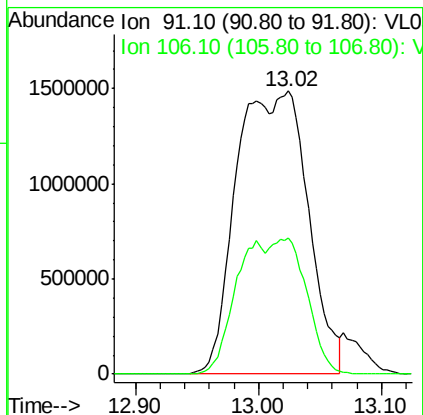
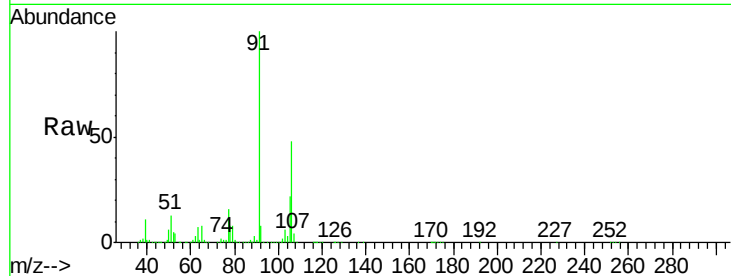
#59
m/p-Xylene
Concen: 20.594 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 6019720
Ion Ratio Lower Upper
91 100
106 45.7 36.2 54.2

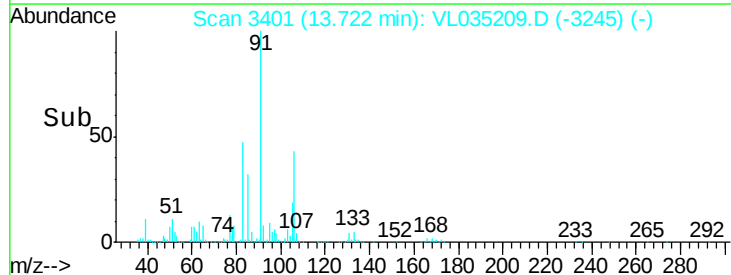
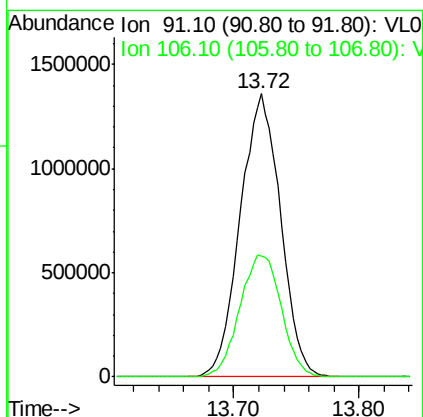
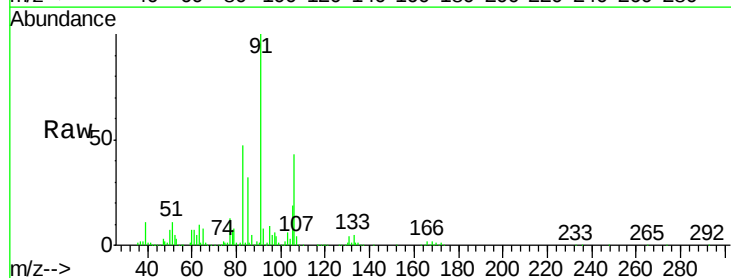
Manual Integrations
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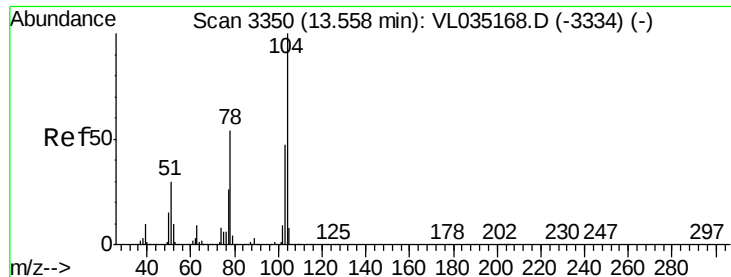
MMDadoda
7/23/2020 3:00:12 PM



#60
o-Xylene
Concen: 10.394 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion: 91 Resp: 3031121
Ion Ratio Lower Upper
91 100
106 44.6 22.1 66.3





#61

Stvrene

Concen: 11.706 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2109520

Ion Ratio Lower Upper

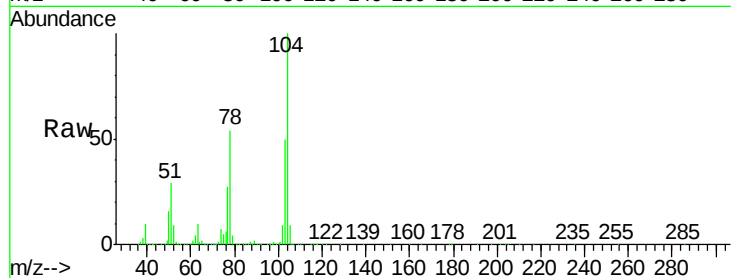
104 100

78 54.6 43.4 65.0

103 47.9 37.4 56.0

Manual Integrations
APPROVED

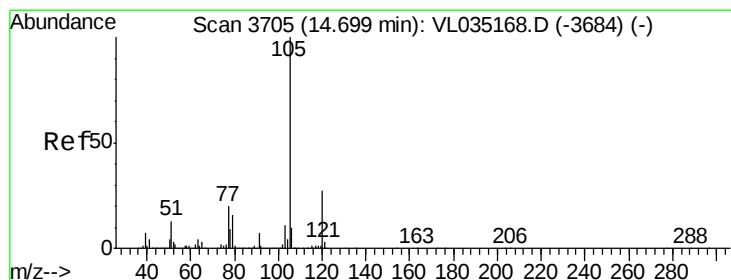
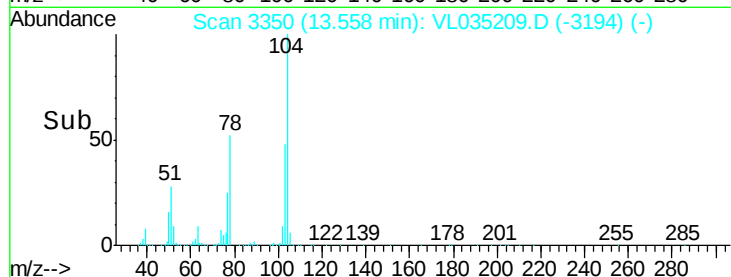
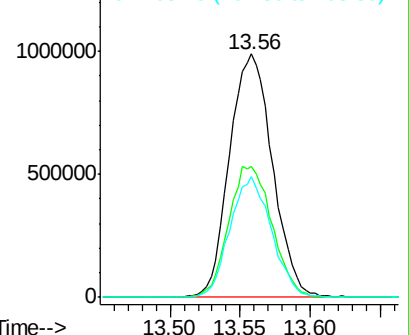
MMDadoda
7/23/2020 3:00:12 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.293 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. 0.00 min

Lab File: VL035209.D

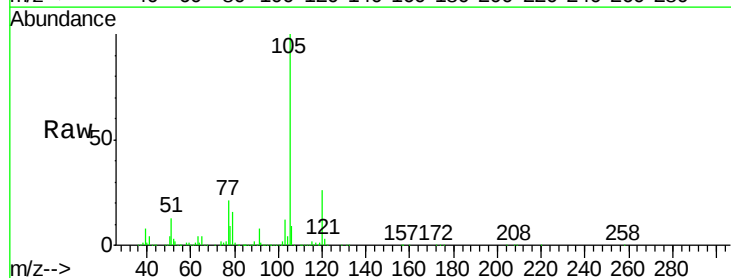
Acq: 21 Jul 2020 10:16

Tgt Ion:105 Resp: 4449226

Ion Ratio Lower Upper

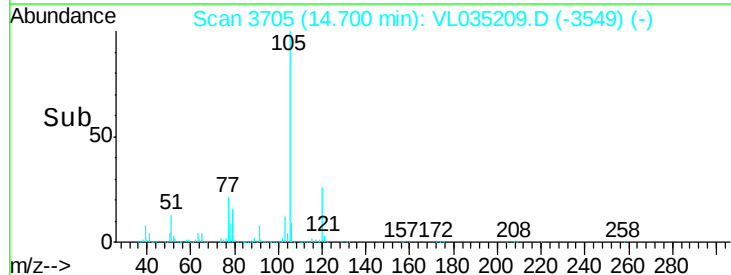
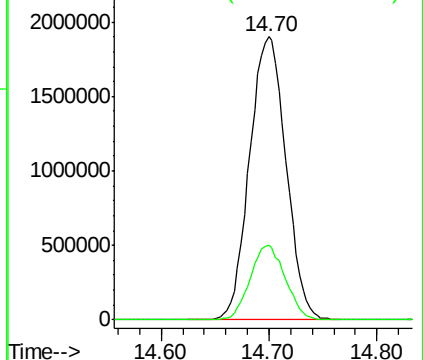
105 100

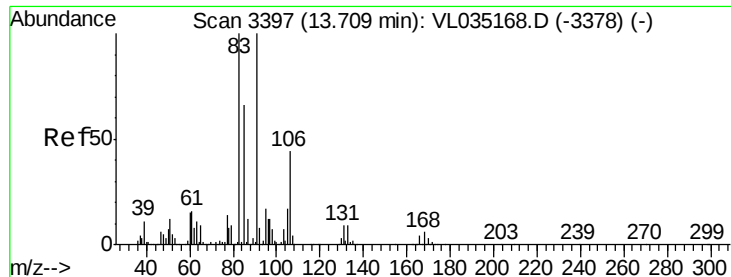
120 25.6 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





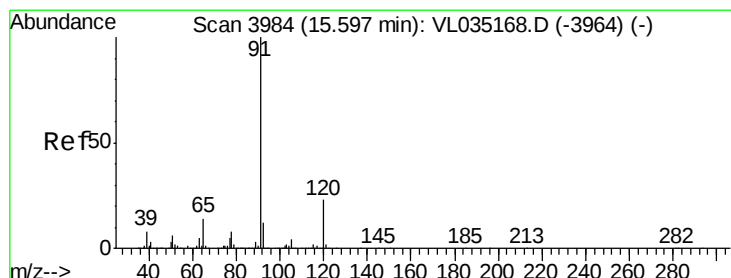
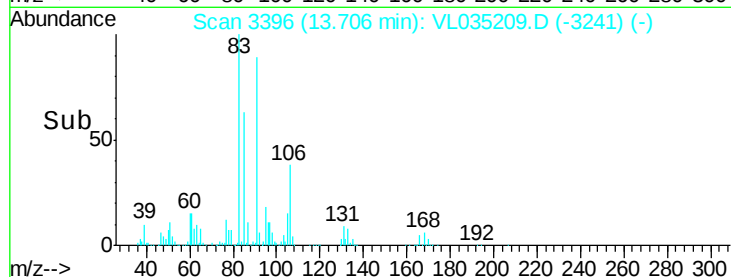
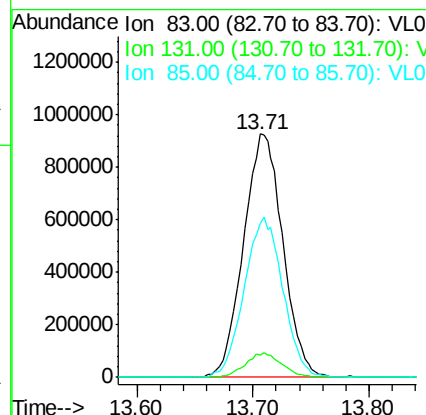
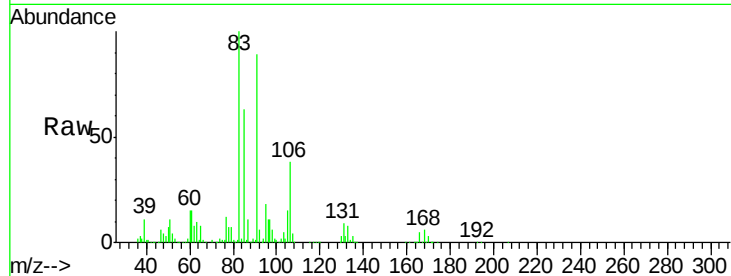
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.943 ppbv
 RT: 13.71 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 2179310
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.7 14.0
 85 64.8 33.0 99.0

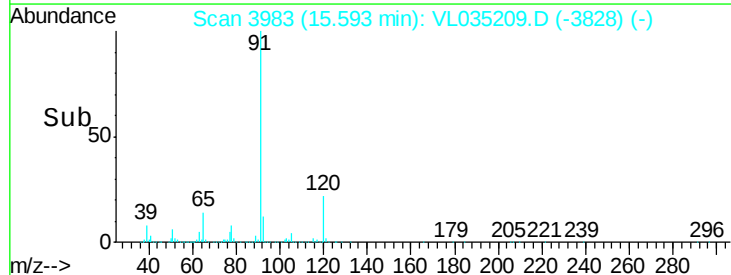
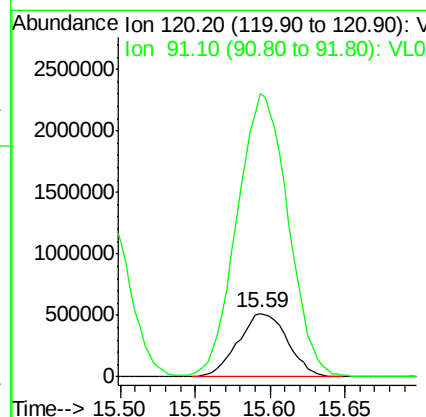
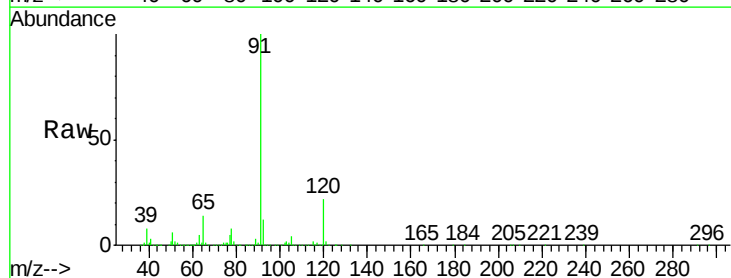
Manual Integrations
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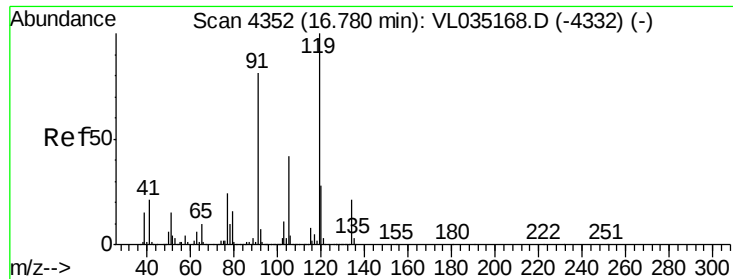
MMDadoda
 7/23/2020 3:00:12 PM



#64
 n-propylbenzene
 Concen: 10.572 ppbv
 RT: 15.59 min Scan# 3983
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Tgt Ion: 120 Resp: 1180543
 Ion Ratio Lower Upper
 120 100
 91 462.2 372.4 558.6





#65

tert-Butylbenzene

Concen: 10.115 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 3926928

Ion Ratio Lower Upper

119 100

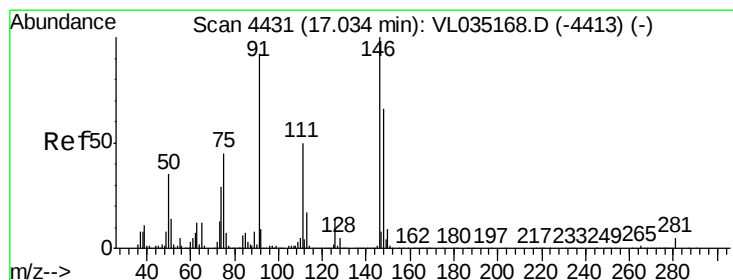
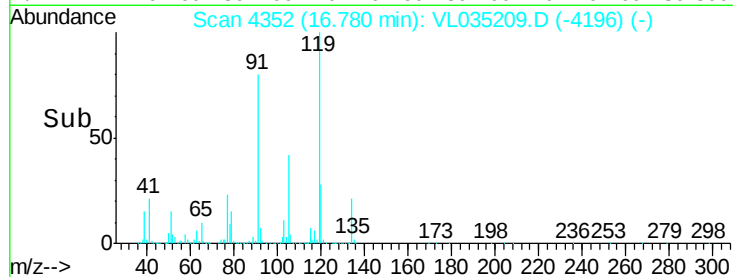
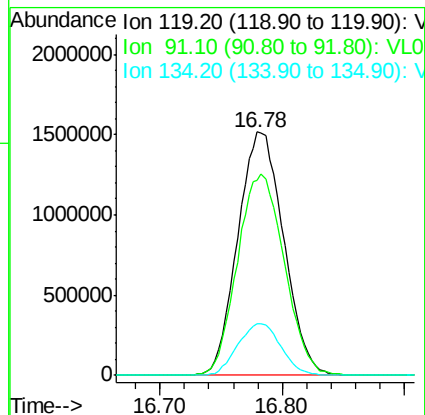
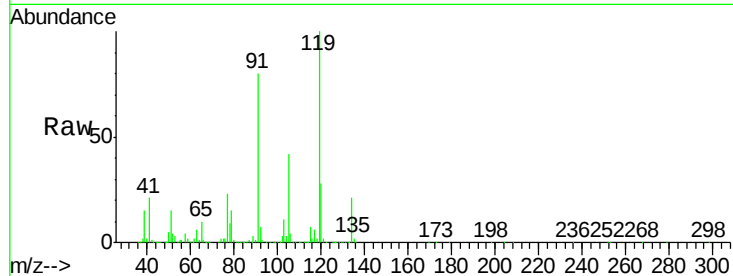
91 85.2 67.5 101.3

134 20.1 16.0 24.0

Manual Integrations
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7/23/2020 3:00:12 PM



#66

Benzyl Chloride

Concen: 11.474 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

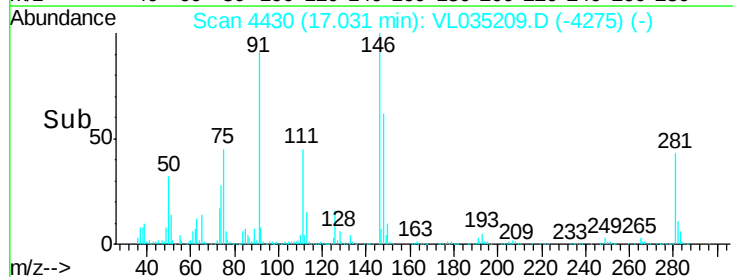
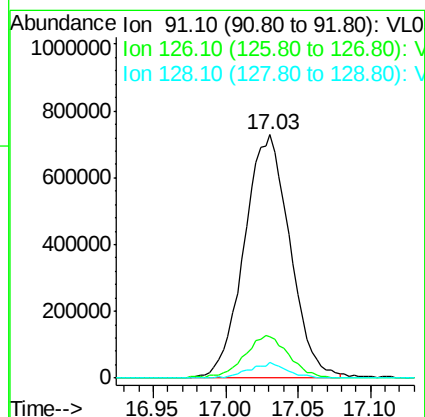
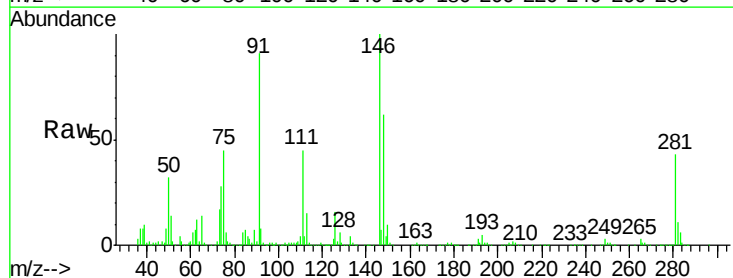
Tgt Ion: 91 Resp: 1587036

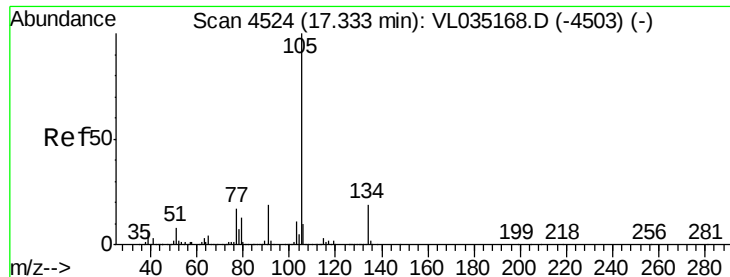
Ion Ratio Lower Upper

91 100

126 17.3 13.9 20.9

128 5.3 4.2 6.4





#67

sec-Butylbenzene

Concen: 10.000 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 5660059

Ion Ratio Lower Upper

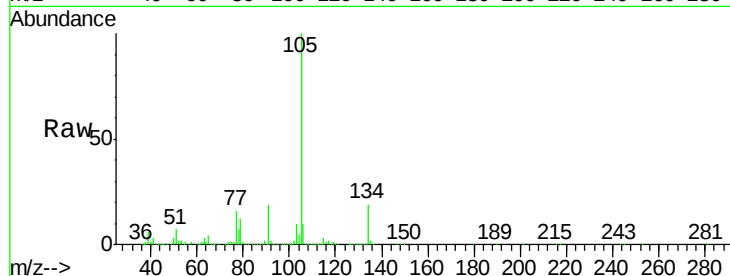
105 100

134 18.4 14.6 21.8

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

17.33

2500000

2000000

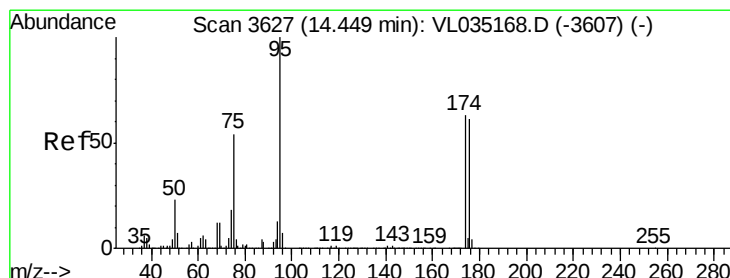
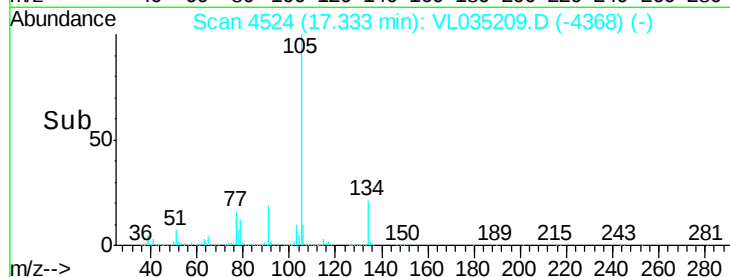
1500000

1000000

500000

0

Time--> 17.20 17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 9.526 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

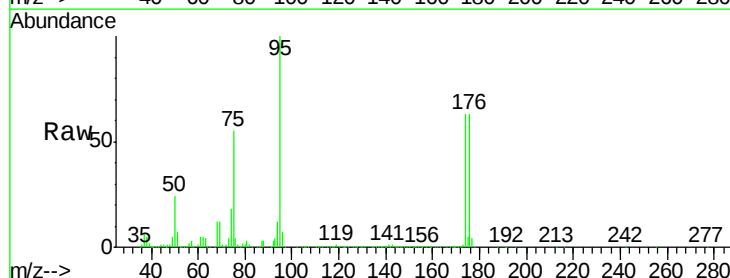
Tgt Ion: 95 Resp: 2296232

Ion Ratio Lower Upper

95 100

174 66.1 52.2 78.2

175 4.8 4.0 6.0



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

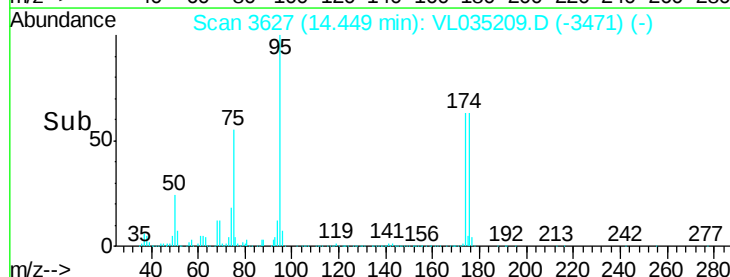
14.45

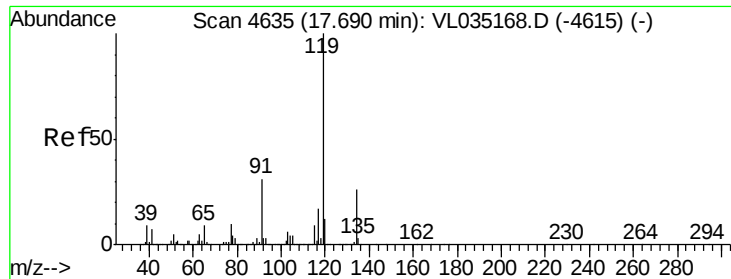
1000000

500000

0

Time--> 14.40 14.50





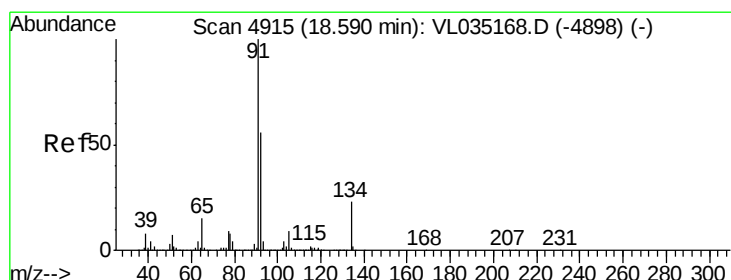
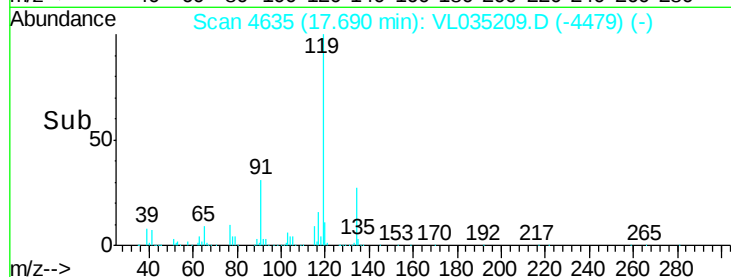
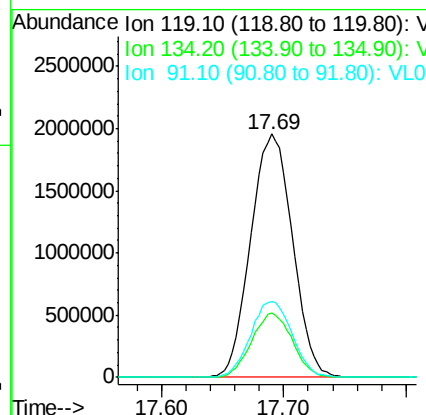
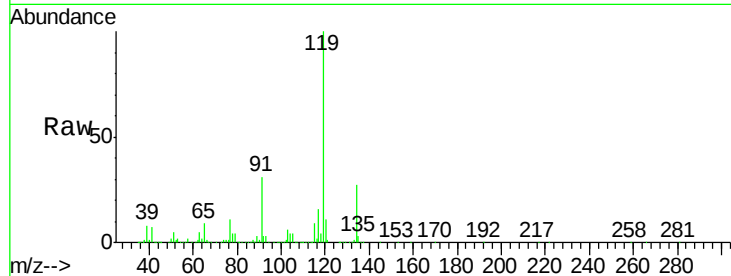
#69
 p-Isopropyltoluene
 Concen: 10.477 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. 0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 4647459
 Ion Ratio Lower Upper
 119 100
 134 25.6 20.8 31.2
 91 31.0 24.9 37.3

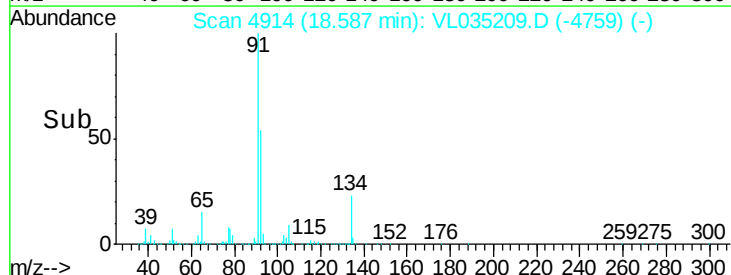
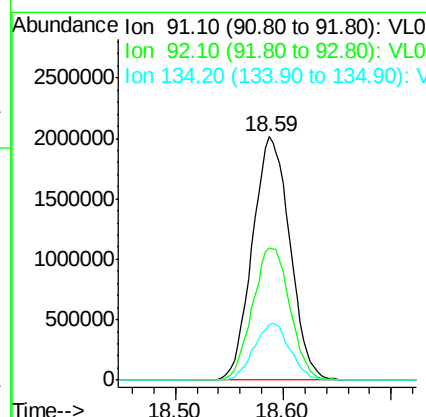
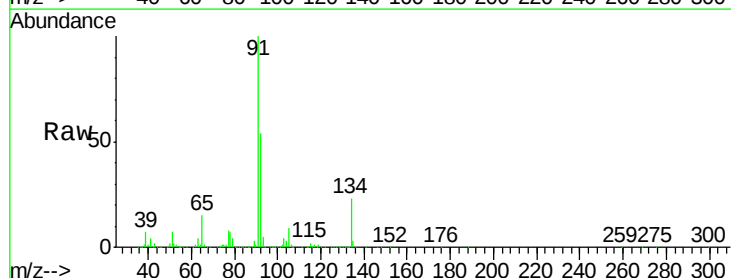
Manual Integrations
 APPROVED

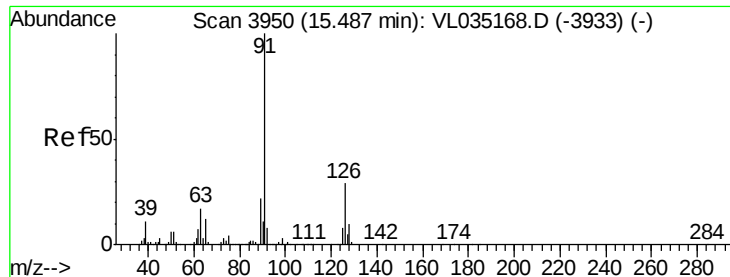
MMDadoda
 7/23/2020 3:00:12 PM



#70
 n-Butylbenzene
 Concen: 10.276 ppbv
 RT: 18.59 min Scan# 4914
 Delta R.T. -0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Tgt Ion: 91 Resp: 4833465
 Ion Ratio Lower Upper
 91 100
 92 54.4 44.0 66.0
 134 22.4 18.0 27.0





#71

2-Chlorotoluene

Concen: 10.386 ppbv

RT: 15.49 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3397190

Ion Ratio Lower Upper

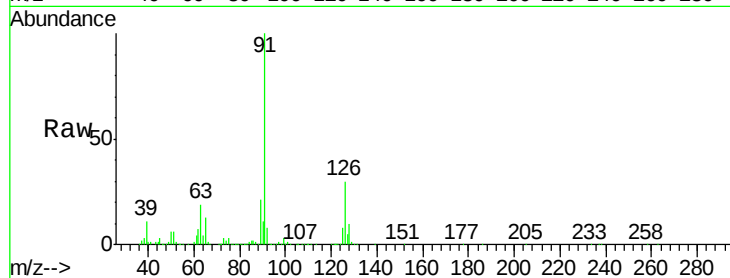
91 100

126 29.9 12.0 48.0

Manual Integrations
APPROVED

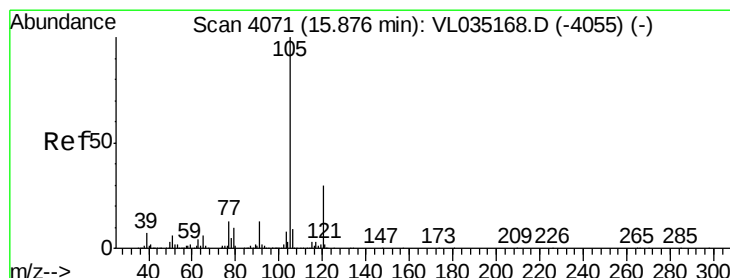
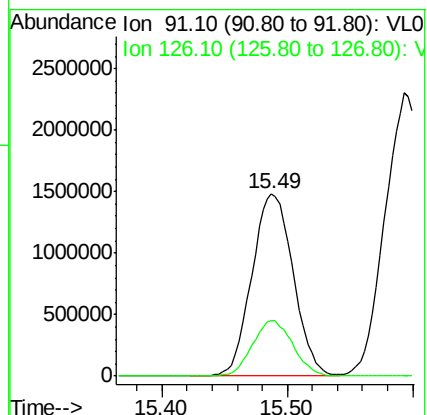
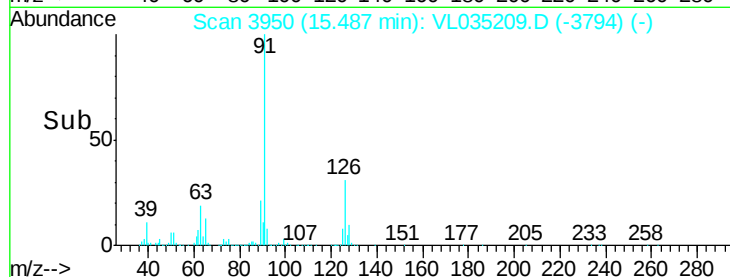
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.821 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Tgt Ion: 105 Resp: 3555556

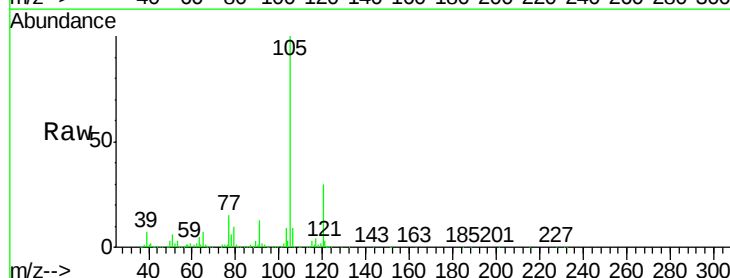
Ion Ratio Lower Upper

105 100

120 28.9 23.2 34.8

91 13.5 10.9 16.3

77 14.5 11.8 17.6

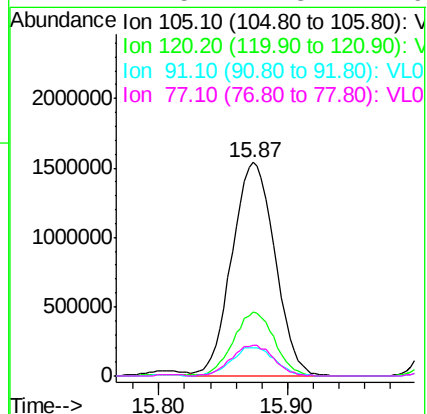
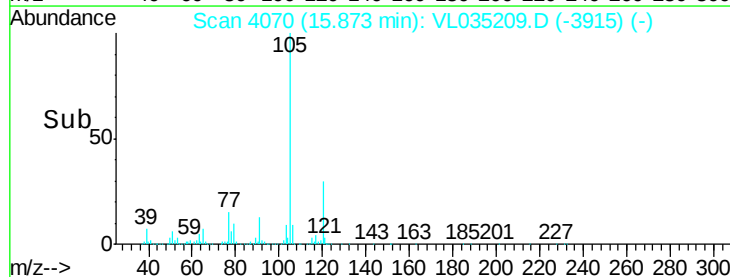


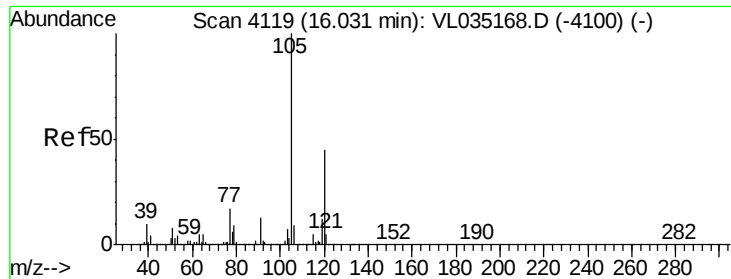
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.479 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3320423

Ion Ratio Lower Upper

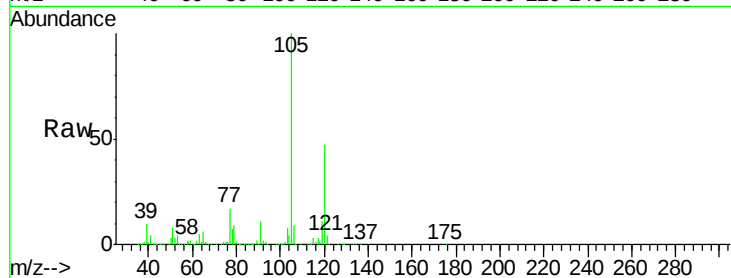
105 100

120 46.8 36.2 54.2

Manual Integrations
APPROVED

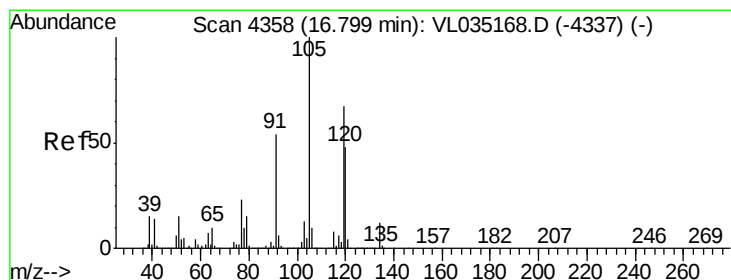
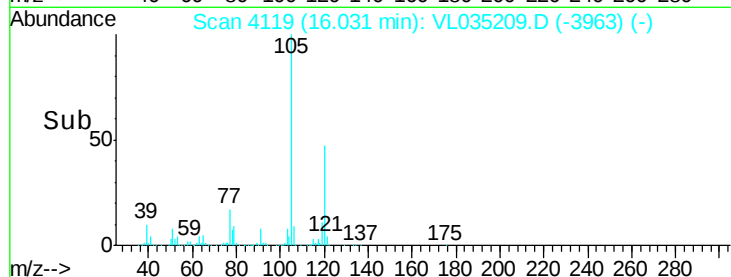
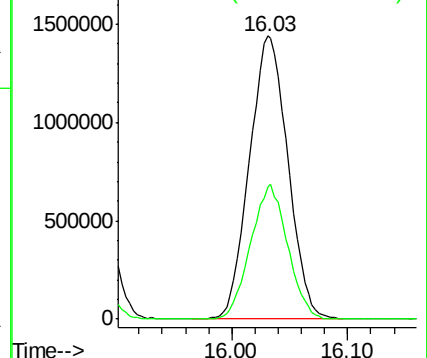
MMDadoda

7/23/2020 3:00:12 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.995 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Tgt Ion:105 Resp: 3500033

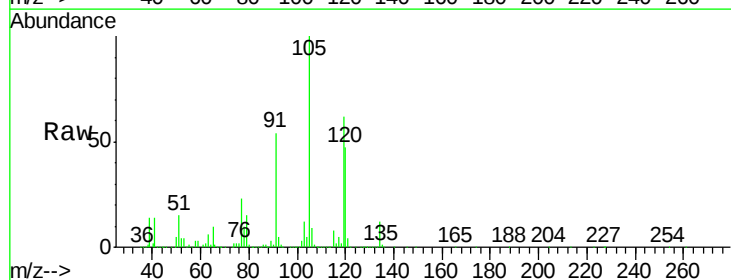
Ion Ratio Lower Upper

105 100

120 46.7 38.6 57.8

91 53.4 43.6 65.4

77 22.5 18.3 27.5

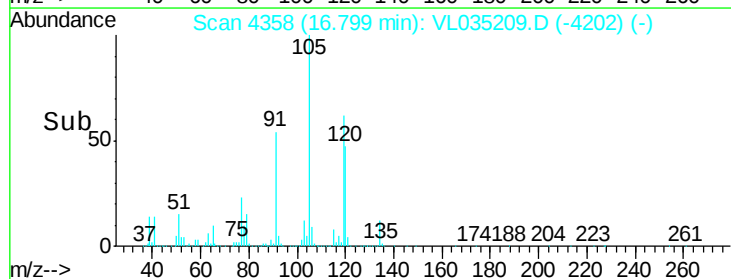
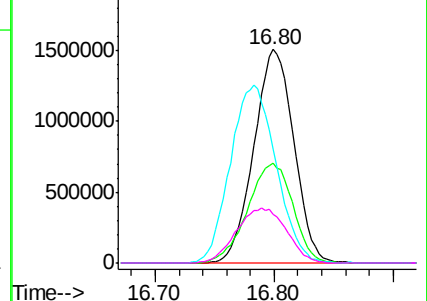


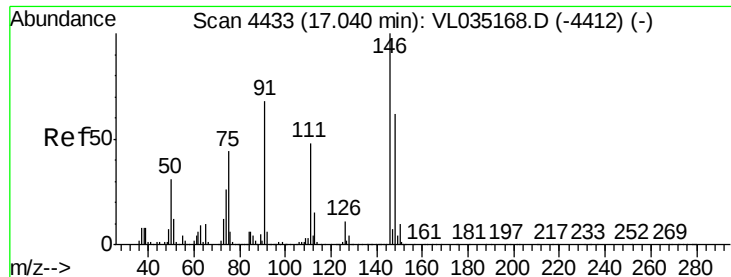
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 9.082 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. -0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2014098

Ion Ratio Lower Upper

146 100

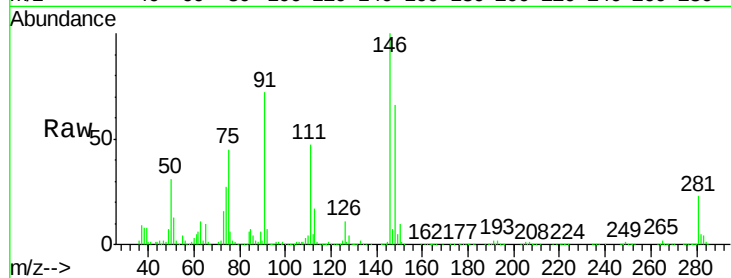
111 48.1 24.7 74.1

148 63.7 32.4 97.0

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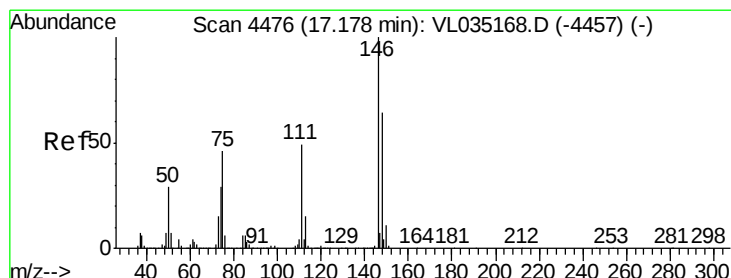
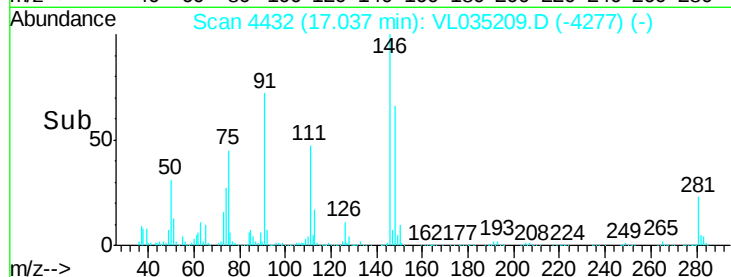
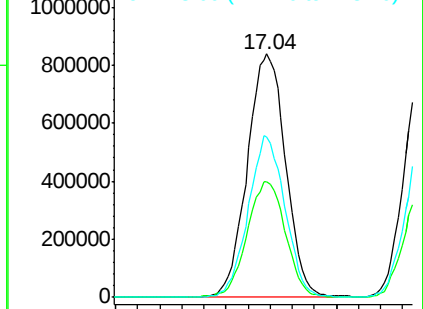
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.671 ppbv

RT: 17.18 min Scan# 4476

Delta R.T. 0.00 min

Lab File: VL035209.D

Acq: 21 Jul 2020 10:16

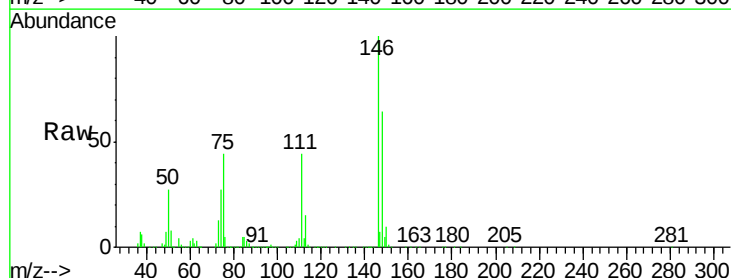
Tgt Ion:146 Resp: 1993037

Ion Ratio Lower Upper

146 100

111 46.6 23.8 71.2

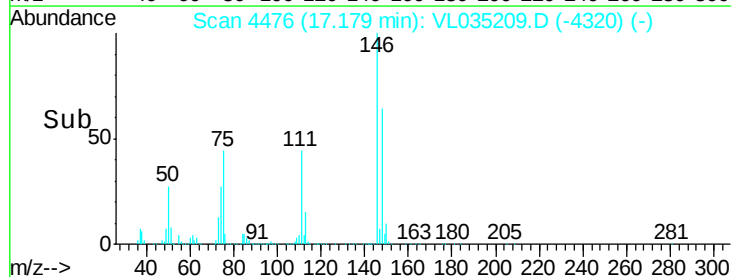
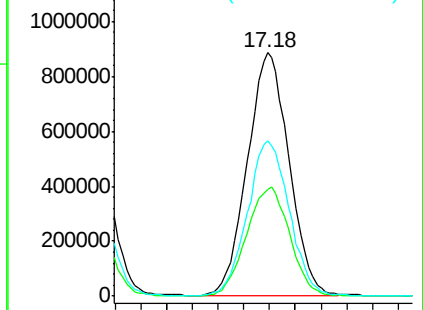
148 64.4 32.3 96.9

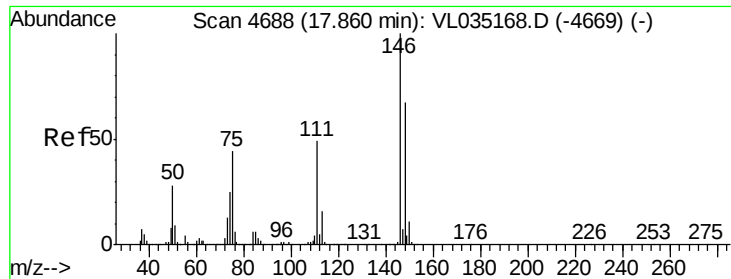


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





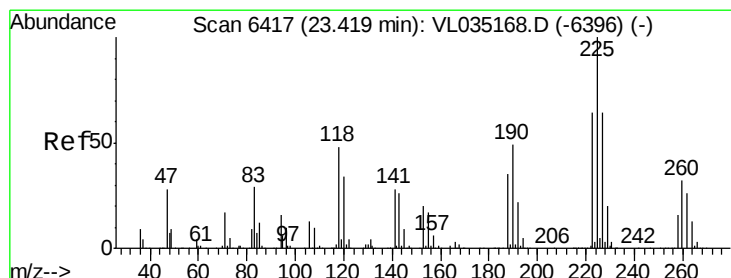
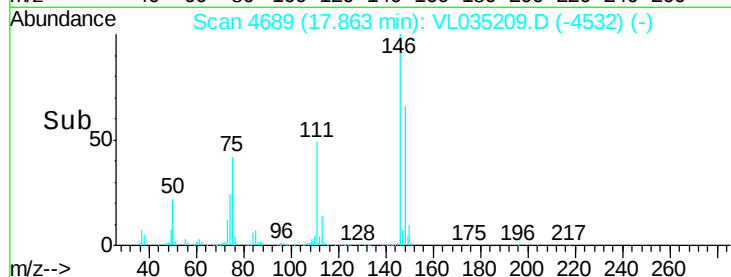
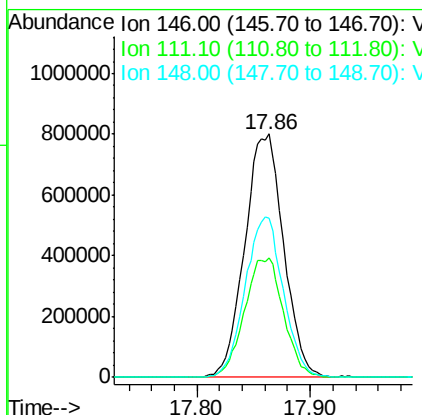
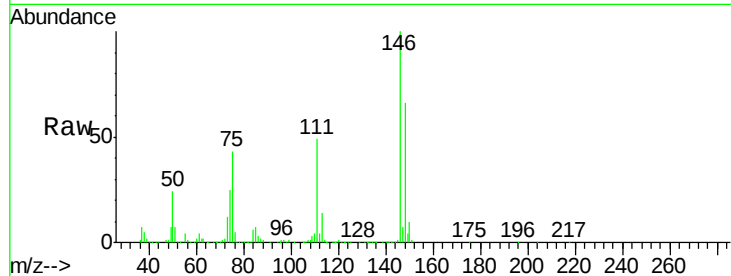
#77
 1,2-Dichlorobenzene
 Concen: 9.600 ppbv
 RT: 17.86 min Scan# 4689
 Delta R.T. 0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.2	25.1	75.2
148	64.5	32.4	97.0

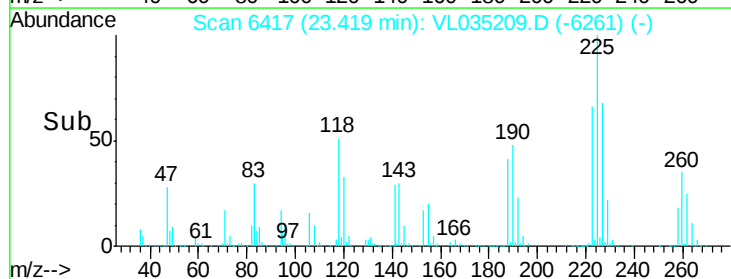
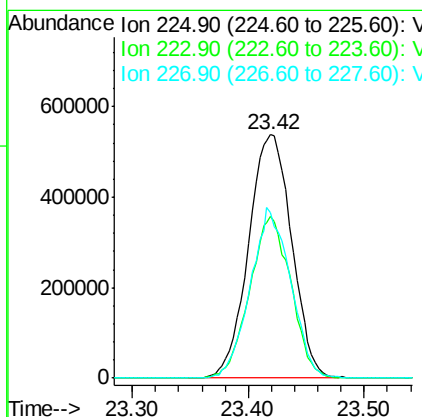
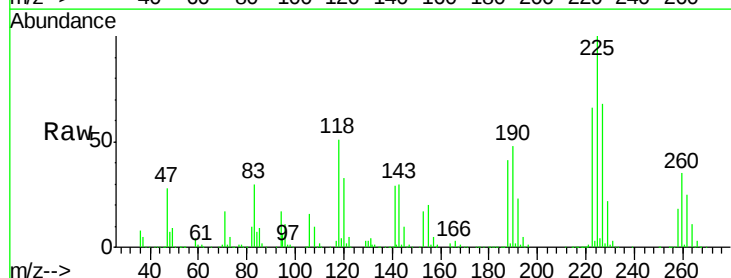
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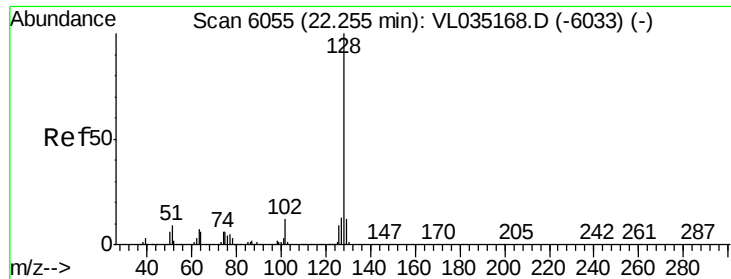
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.816 ppbv
 RT: 23.42 min Scan# 6417
 Delta R.T. 0.00 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.2	75.2
227	65.0	51.2	76.8





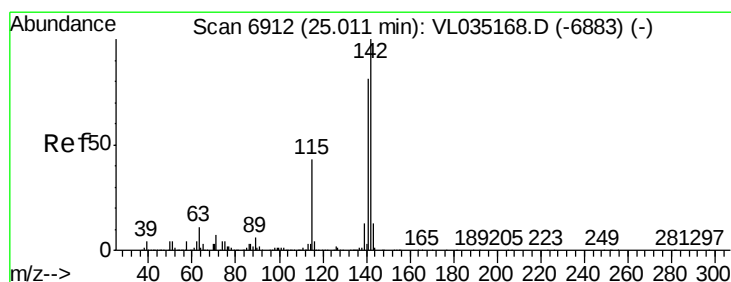
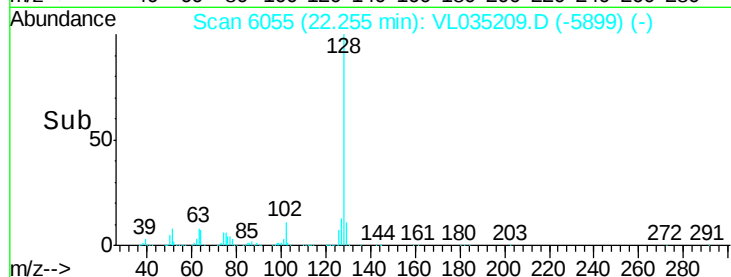
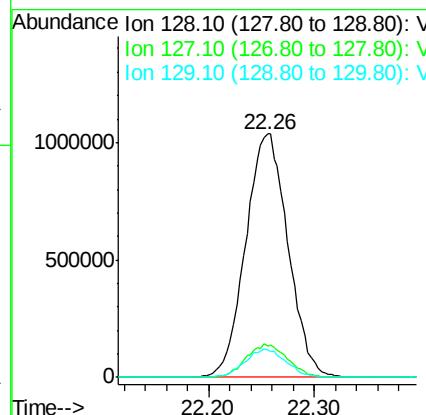
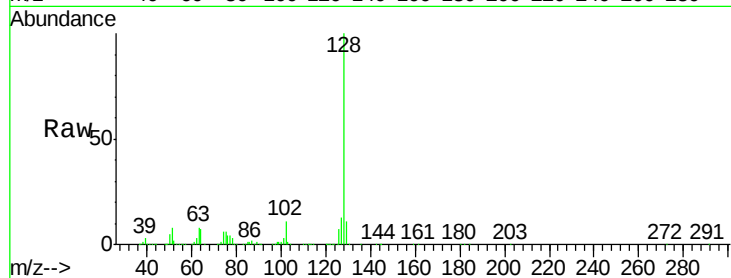
#79
Naphthalene
Concen: 12.754 ppbv
RT: 22.26 min Scan# 6055
Delta R.T. 0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.8	16.2
129	11.0	9.4	14.2

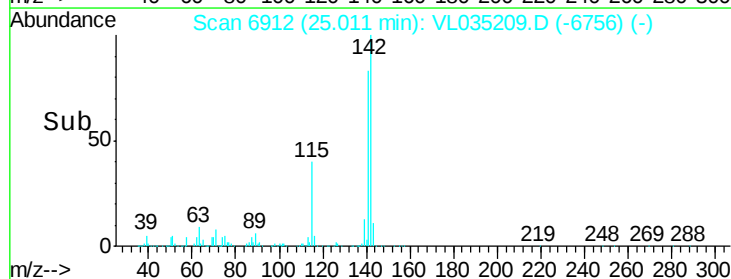
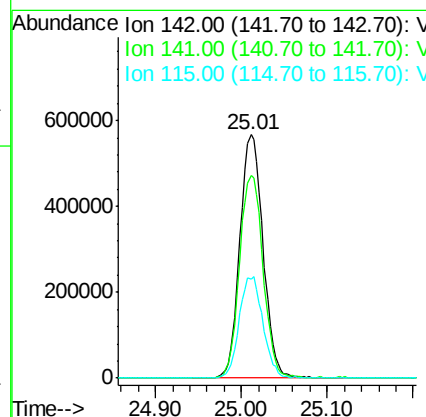
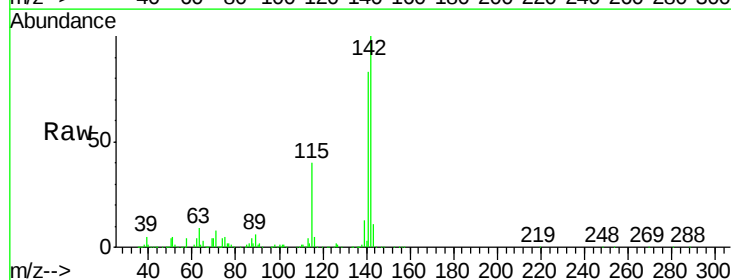
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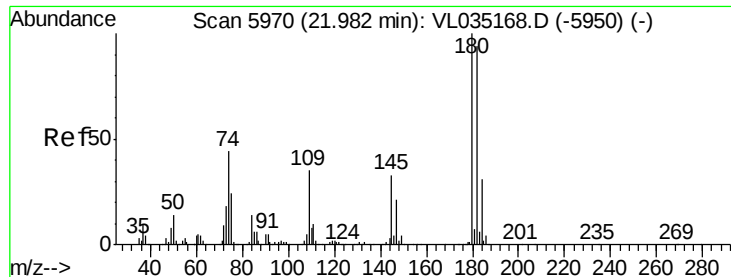
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#80
Naphthalene, 2-methyl-
Concen: 19.907 ppbv
RT: 25.01 min Scan# 6912
Delta R.T. 0.00 min
Lab File: VL035209.D
Acq: 21 Jul 2020 10:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.0	68.2	102.4
115	42.7	34.4	51.6





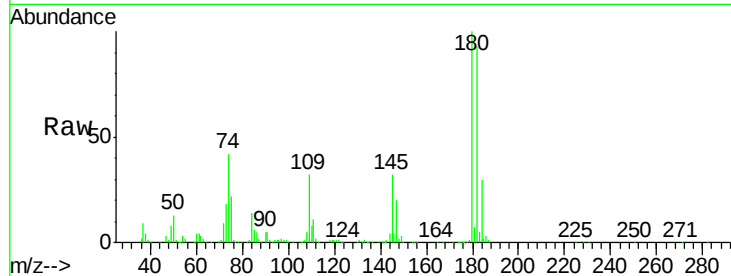
#81
 1,2,4-Trichlorobenzene
 Concen: 11.331 ppbv
 RT: 21.99 min Scan# 5972
 Delta R.T. 0.01 min
 Lab File: VL035209.D
 Acq: 21 Jul 2020 10:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.7	115.1
184	30.5	25.0	37.6

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

