

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034758.D
 Acq On : 3 Mar 2020 9:43
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

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 3/4/2020 4:48:55 PM

Quant Time: Mar 04 05:54:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1163189	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2428870	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2446017	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	2058656	10.26	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	1321524	7.202	ppbv 95
3) Chlorodifluoromethane	2.96	51	1170627	9.325	ppbv 99
4) Chloromethane	3.11	50	640703	9.118	ppbv 99
5) Vinyl Chloride	3.23	62	640573	9.292	ppbv 95
6) Bromomethane	3.45	94	381423	9.444	ppbv 94
7) Chloroethane	3.53	64	240582	9.401	ppbv 97
8) Dichlorotetrafluoroethane	3.16	85	1481441	9.127	ppbv 99
9) Propene	2.98	41	478569	9.120	ppbv 99
10) Heptane	8.15	43	1321805	9.787	ppbv 100
11) Trichlorofluoromethane	3.93	101	1523209	9.477	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1066643	9.415	ppbv 98
13) Ethanol	3.58	45	154912	9.345	ppbv 97
14) Bromoethene	3.72	108	461334	9.760	ppbv 98
15) Acetone	3.83	43	1166911	8.804	ppbv 99
16) 1,3-Butadiene	3.30	39	589813	9.613	ppbv 99
17) tert-Butyl alcohol	4.28	59	1217505	11.987	ppbv 99
18) 1,1-Dichloroethene	4.28	96	480436	9.446	ppbv 95
19) Isopropyl Alcohol	3.95	45	926022	11.729	ppbv 100
20) Methylene Chloride	4.33	84	425323	8.628	ppbv 93
21) Allyl Chloride	4.40	41	863949	9.852	ppbv 96
22) trans-1,2-Dichloroethene	4.88	96	478636	9.651	ppbv 98
23) Vinyl Acetate	5.07	43	1855882	10.299	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1349241	9.376	ppbv 99
25) Ethyl Acetate	5.68	43	2247689	9.579	ppbv 100
26) Hexane	5.69	57	1007869	9.320	ppbv 99
27) Carbon Disulfide	4.54	76	1267748	10.327	ppbv 98
28) Methyl tert-Butyl Ether	5.03	73	1556027	10.072	ppbv 99
29) Chloroform	5.76	83	1615704	9.377	ppbv 96
30) Cyclohexane	7.14	84	818471	9.766	ppbv 98
31) cis-1,2-Dichloroethene	5.55	61	1061069	9.970	ppbv 98
32) 1,1,1-Trichloroethane	6.52	97	1570049	9.758	ppbv 99
34) 2-Butanone	5.24	43	1483839	9.706	ppbv 98
35) Carbon Tetrachloride	7.03	117	1626282	9.998	ppbv 97
36) Benzene	6.91	78	1975472	9.417	ppbv 98
37) 1,2-Dichloroethane	6.32	62	1326749	10.033	ppbv 98
38) Trichloroethene	7.86	130	753519	9.319	ppbv 96
39) 1,2-Dichloropropane	7.64	63	799755	9.582	ppbv 98
40) 1,4-Dioxane	7.85	88	297232	10.472	ppbv # 1
41) Tetrahydrofuran	6.05	42	829219	10.276	ppbv 99
42) Bromodichloromethane	7.82	83	1750185	10.109	ppbv 99
43) Methyl Methacrylate	8.03	69	925315	10.487	ppbv 100

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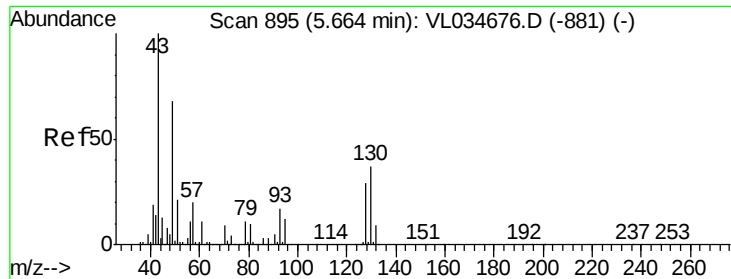
Manual Integrations
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Quant Time: Mar 04 05:54:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3429120	9.353	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	1109534	11.523	ppbv	98
46) cis-1,3-Dichloropropene	8.73	75	1261437	10.924	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	811281	9.475	ppbv	97
48) Dibromochloromethane	10.34	129	1417838	10.649	ppbv	99
49) Bromoform	13.09	173	1221225	10.579	ppbv	98
50) 4-Methyl-2-Pentanone	8.77	43	2204281	10.180	ppbv	100
51) 2-Hexanone	10.17	43	1824995	10.710	ppbv #	99
52) Tetrachloroethene	11.26	164	713747	9.282	ppbv	93
53) Toluene	9.84	91	2269987	10.174	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1266917	9.918	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	1040687	9.990	ppbv	96
57) Chlorobenzene	12.19	112	1712936	9.475	ppbv	94
58) Ethyl Benzene	12.75	91	3070979	10.377	ppbv	99
59) m/p-Xylene	13.04	91	5079843m	19.681	ppbv	
60) o-Xylene	13.74	91	2547630	9.947	ppbv	98
61) Styrene	13.58	104	1792714	10.896	ppbv	98
62) Isopropylbenzene	14.72	105	3680573	9.851	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	1810106	9.068	ppbv	100
64) n-propylbenzene	15.61	120	961802	9.985	ppbv	96
65) tert-Butylbenzene	16.80	119	3208155	9.944	ppbv	98
66) Benzyl Chloride	17.05	91	1486549	12.352	ppbv	99
67) sec-Butylbenzene	17.35	105	4573650	9.852	ppbv	100
69) p-Isopropyltoluene	17.71	119	3828157	10.017	ppbv	99
70) n-Butylbenzene	18.61	91	4091223	9.831	ppbv	99
71) 2-Chlorotoluene	15.50	91	2880829	9.955	ppbv	100
72) 4-Ethyltoluene	15.89	105	2963471	10.395	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2788064	10.166	ppbv	99
74) 1,2,4-Trimethylbenzene	16.82	105	2911562	9.613	ppbv	94
75) 1,3-Dichlorobenzene	17.05	146	1648571	9.430	ppbv	100
76) 1,4-Dichlorobenzene	17.20	146	1648906	9.427	ppbv	98
77) 1,2-Dichlorobenzene	17.87	146	1611724m	9.536	ppbv	
78) Hexachloro-1,3-Butadiene	23.44	225	1369781	9.308	ppbv	98
79) Naphthalene	22.27	128	2717668	10.196	ppbv	100
80) Naphthalene, 2-methyl-	25.03	142	1264530	15.381	ppbv	96
81) 1,2,4-Trichlorobenzene	22.00	180	1569089m	9.864	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL034758.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1163189

Ion Ratio Lower Upper

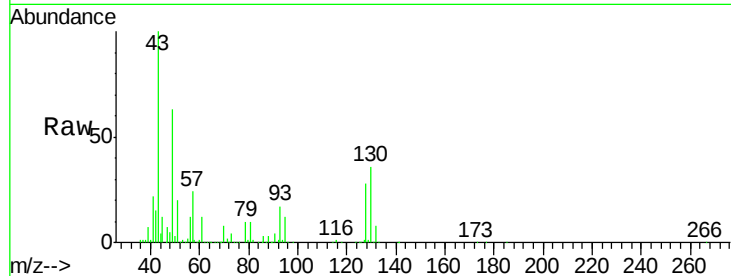
49 100

128 43.2 21.6 65.0

130 55.8 27.7 83.1

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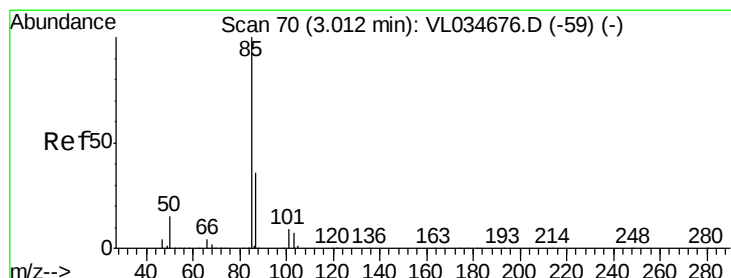
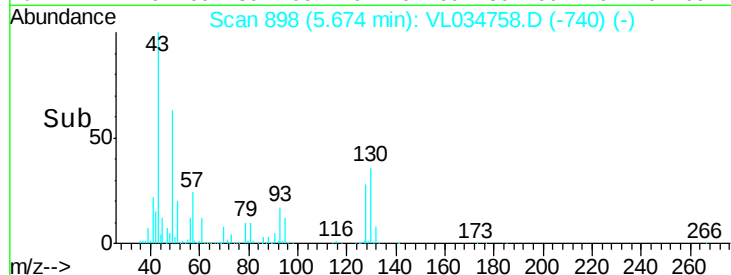
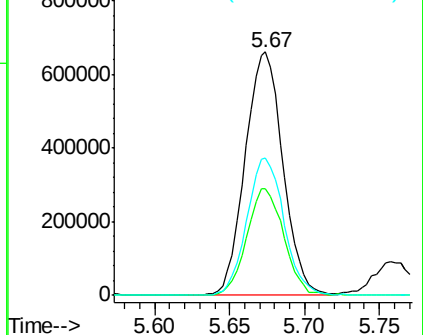
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.202 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034758.D

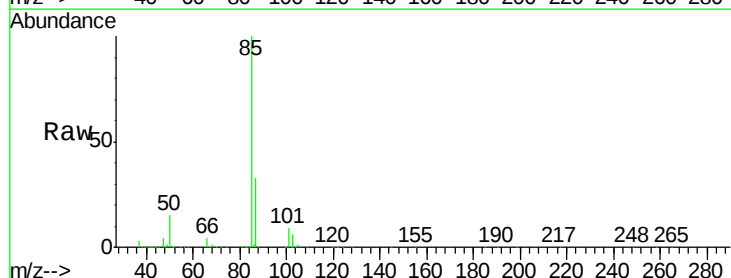
Acq: 3 Mar 2020 9:43

Tgt Ion: 85 Resp: 1321524

Ion Ratio Lower Upper

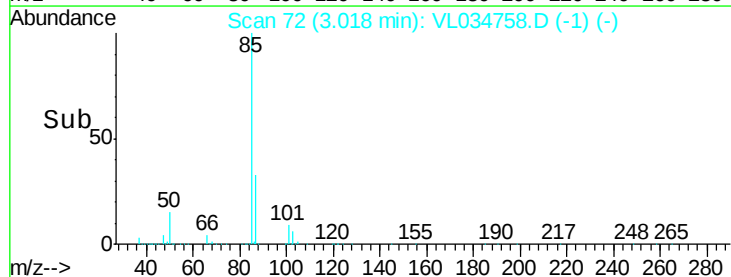
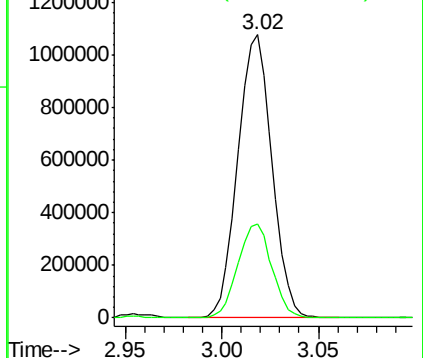
85 100

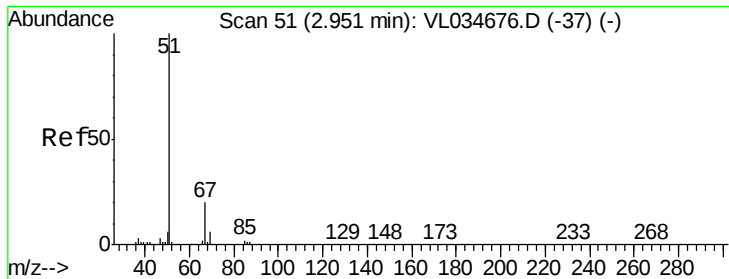
87 33.3 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.325 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Tot Ion: 51 Resp: 1170627

Ion Ratio Lower Upper

51 100

67 19.8 15.5 23.3

Instrument :

MSVOA_L

ClientSampleId :

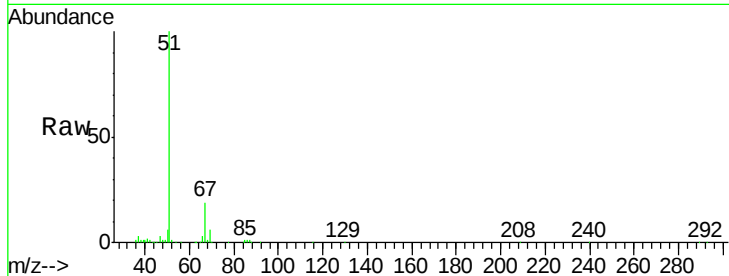
VSTDCCC010

Manual Integrations

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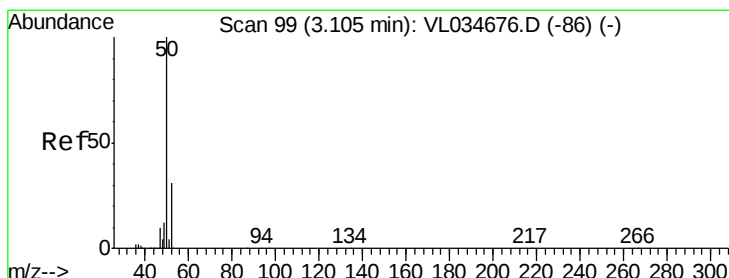
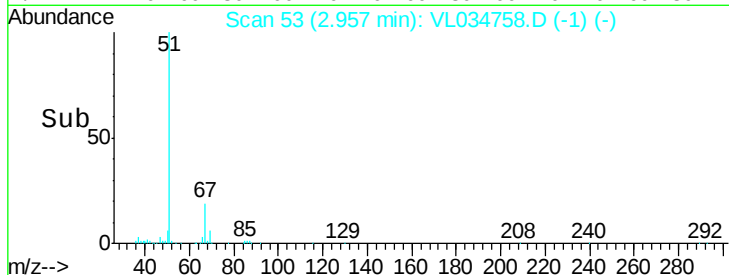
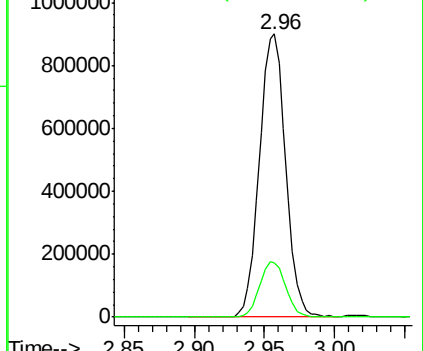
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.118 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034758.D

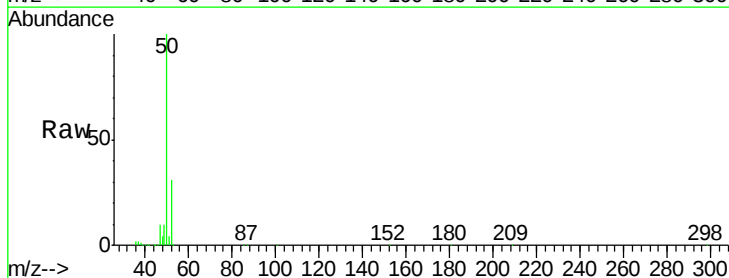
Acq: 3 Mar 2020 9:43

Tgt Ion: 50 Resp: 640703

Ion Ratio Lower Upper

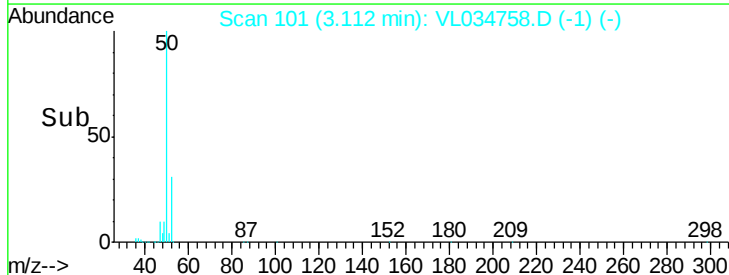
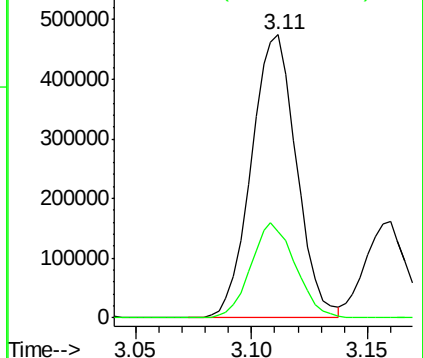
50 100

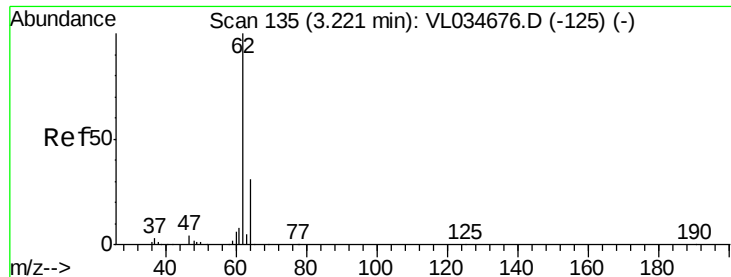
52 30.6 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.292 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 640573

Ion Ratio Lower Upper

62 100

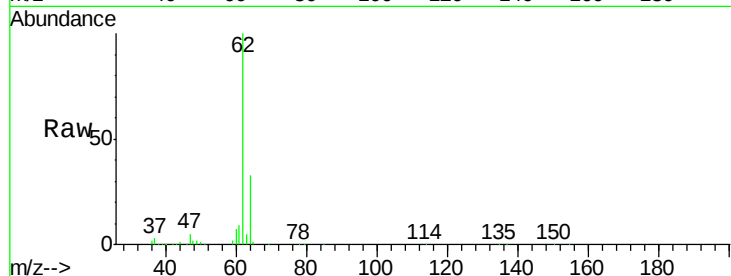
64 33.5 24.7 37.1

Manual Integrations

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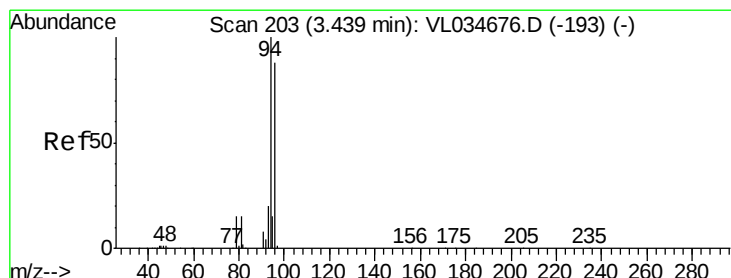
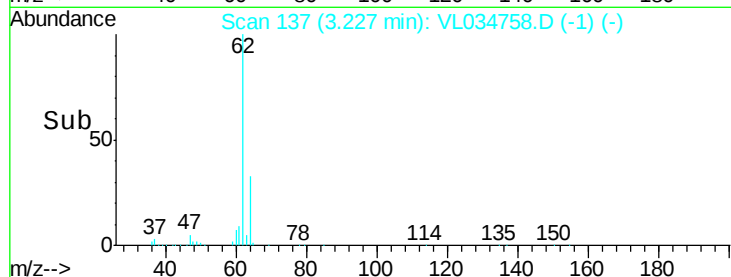
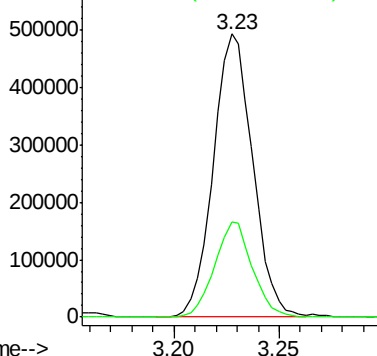
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.444 ppbv

RT: 3.45 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL034758.D

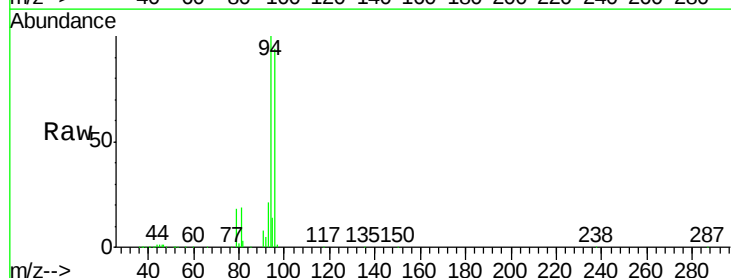
Acq: 3 Mar 2020 9:43

Tgt Ion: 94 Resp: 381423

Ion Ratio Lower Upper

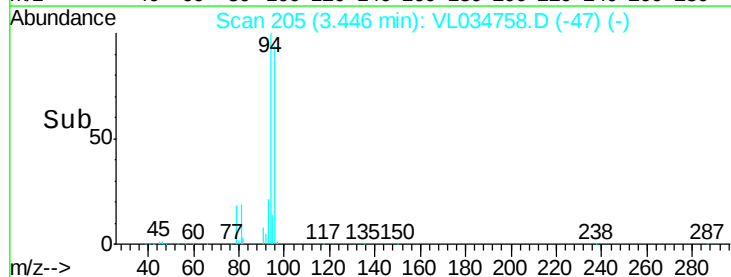
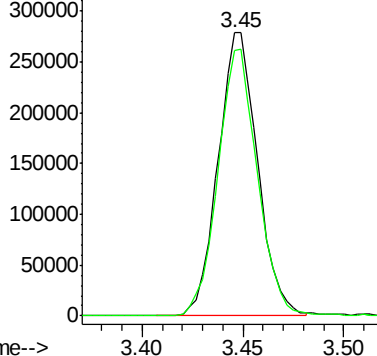
94 100

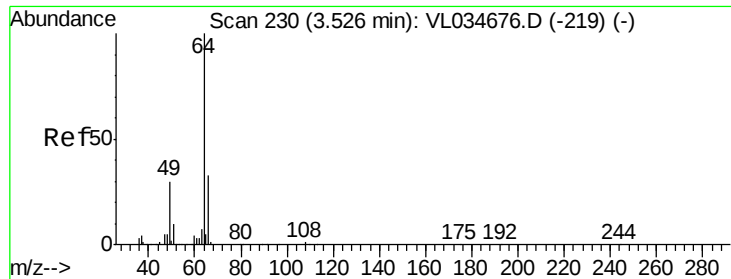
96 93.9 70.5 105.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.401 ppbv

RT: 3.53 min Scan# 232

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 240582

Ion Ratio Lower Upper

64 100

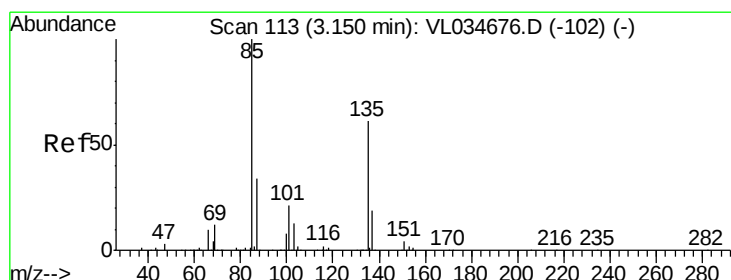
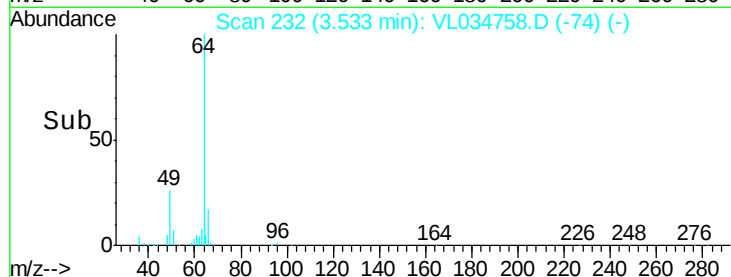
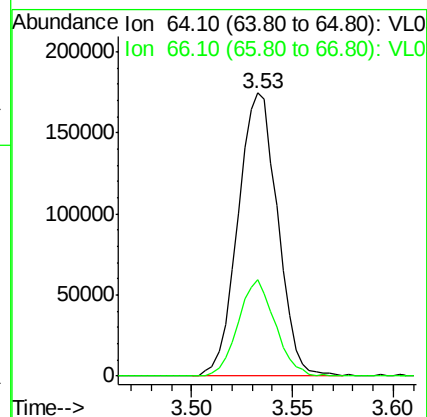
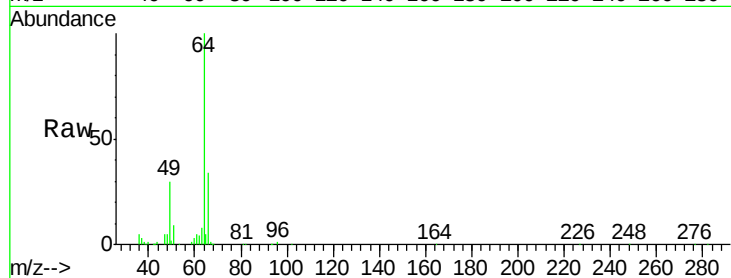
66 35.3 26.7 40.1

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.127 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL034758.D

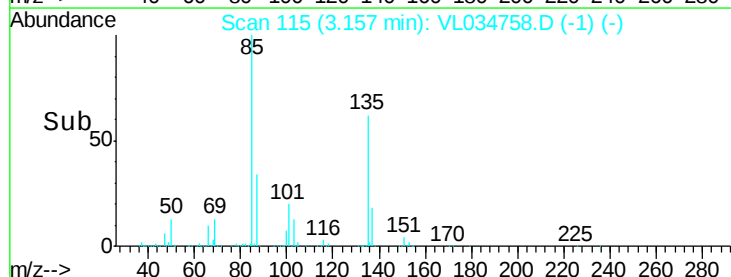
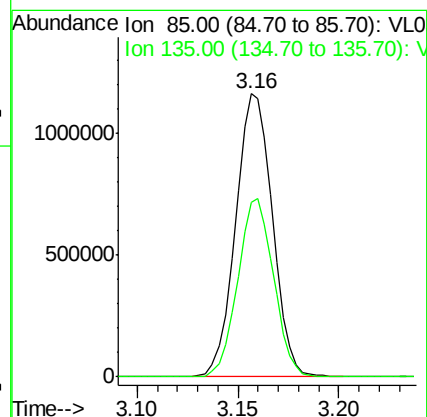
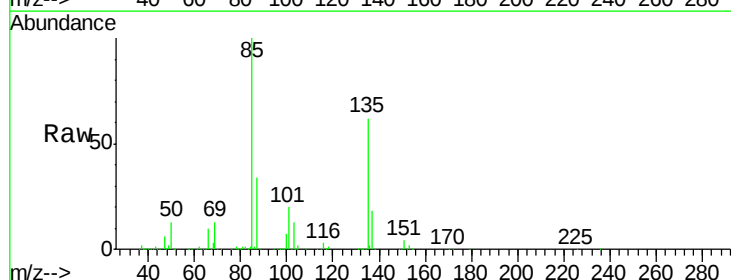
Acq: 3 Mar 2020 9:43

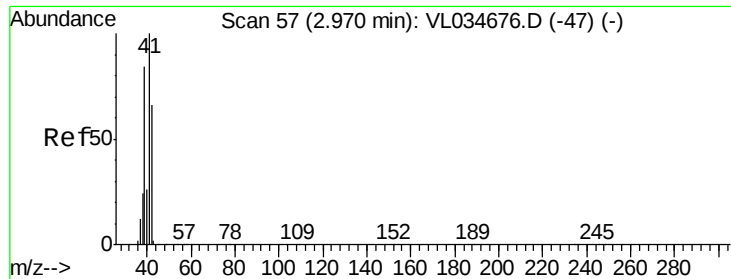
Tgt Ion: 85 Resp: 1481441

Ion Ratio Lower Upper

85 100

135 61.5 49.8 74.6





#9

Propene

Concen: 9.120 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 478569

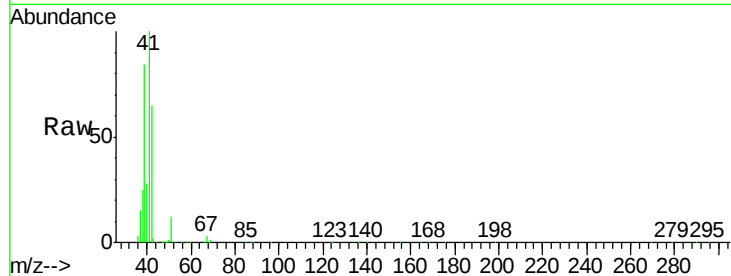
Ion Ratio Lower Upper

41 100

42 69.7 54.9 82.3

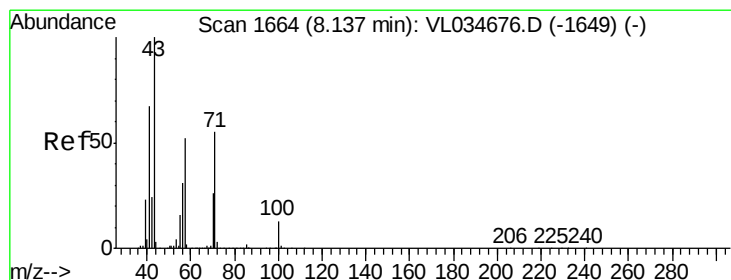
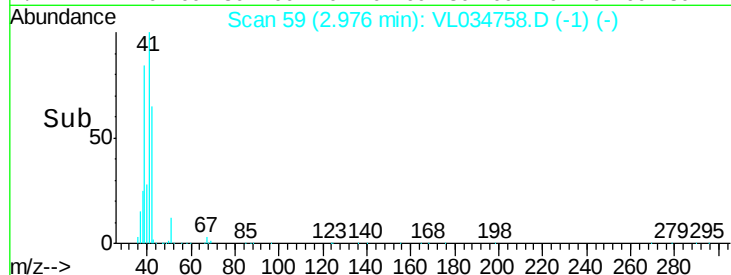
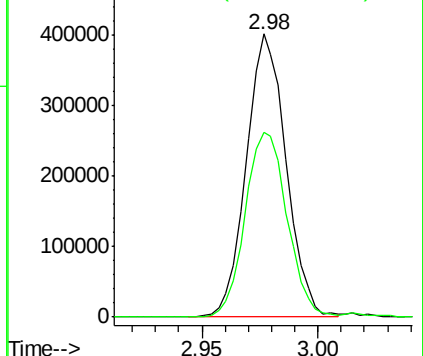
Manual Integrations
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.787 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.01 min

Lab File: VL034758.D

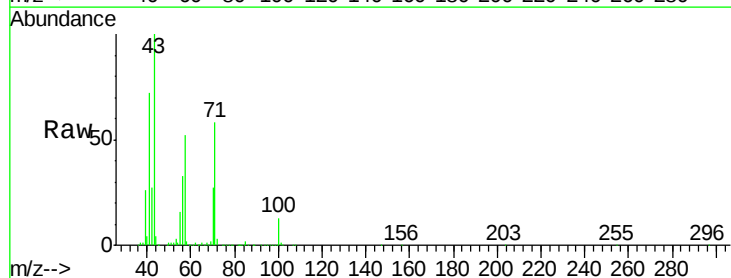
Acq: 3 Mar 2020 9:43

Tgt Ion: 43 Resp: 1321805

Ion Ratio Lower Upper

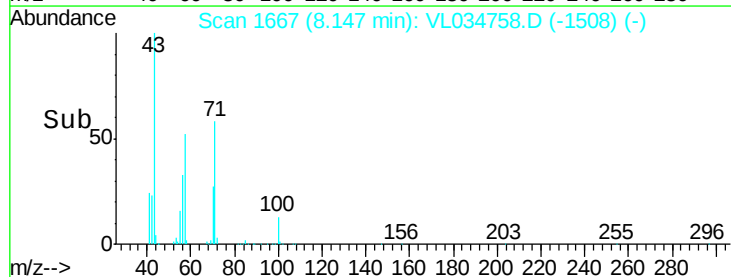
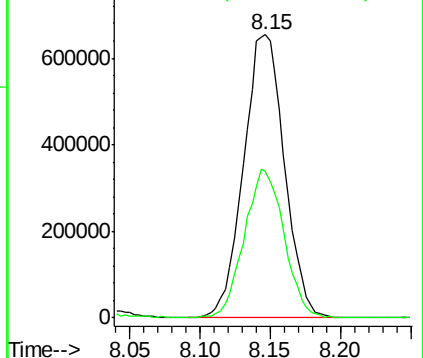
43 100

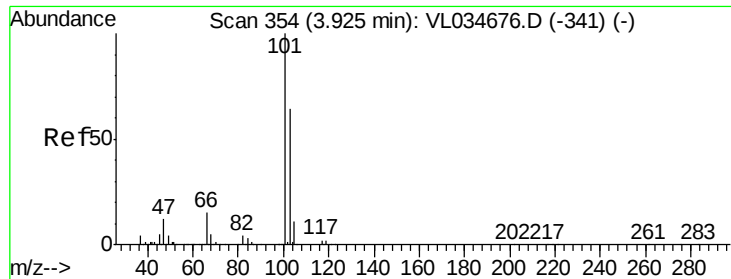
57 51.4 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





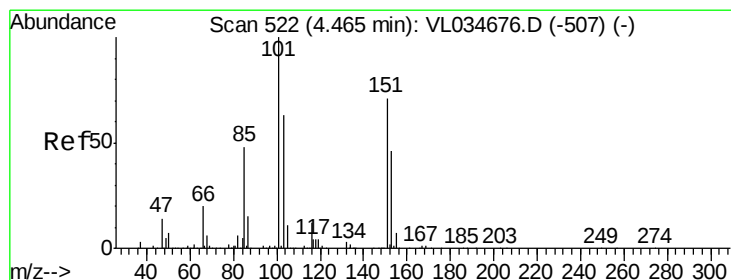
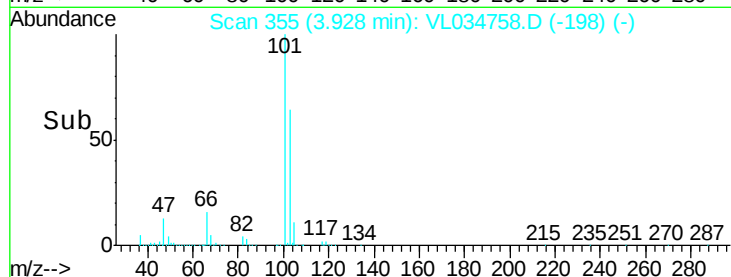
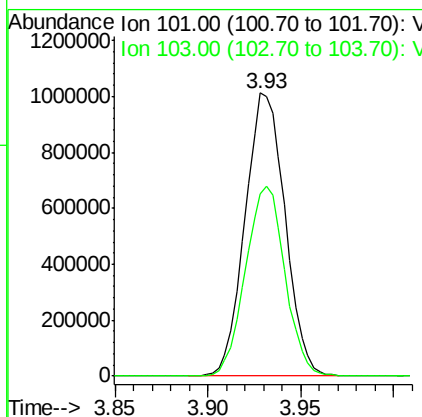
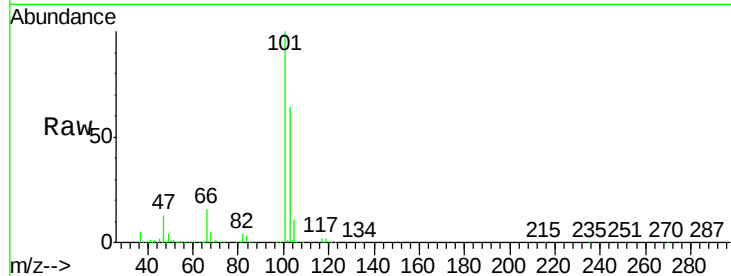
#11
 Trichlorofluoromethane
 Concen: 9.477 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. 0.00 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1523209
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.2 76.8

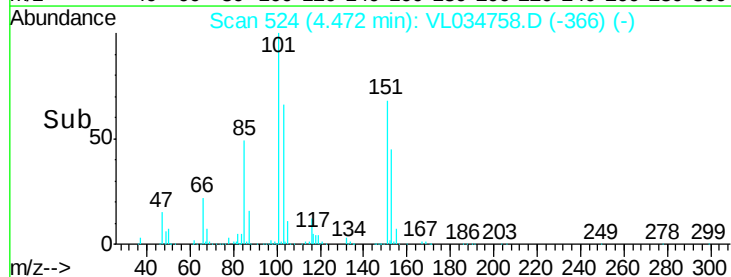
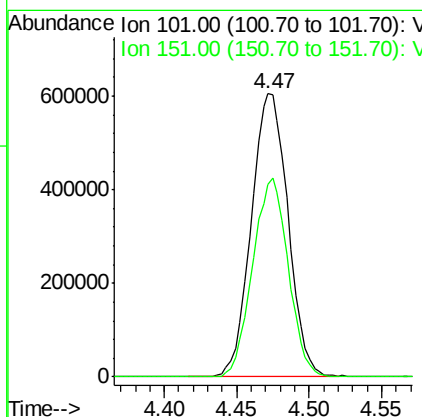
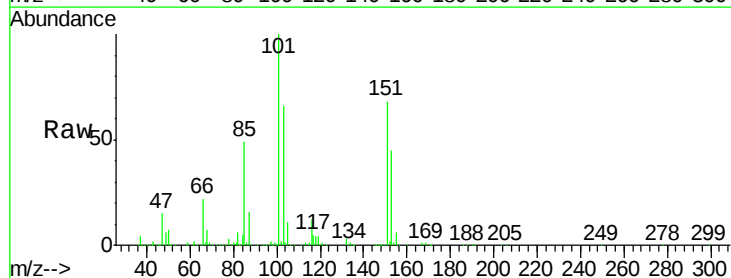
Manual Integrations
 APPROVED

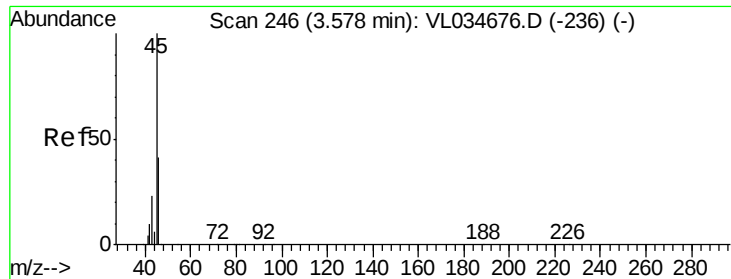
MMDadoda
 3/4/2020 4:48:55 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.415 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion:101 Resp: 1066643
 Ion Ratio Lower Upper
 101 100
 151 68.2 55.8 83.6





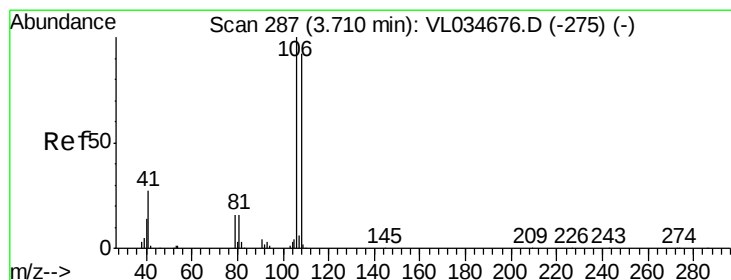
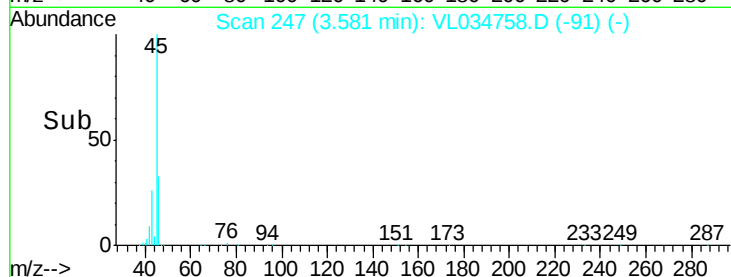
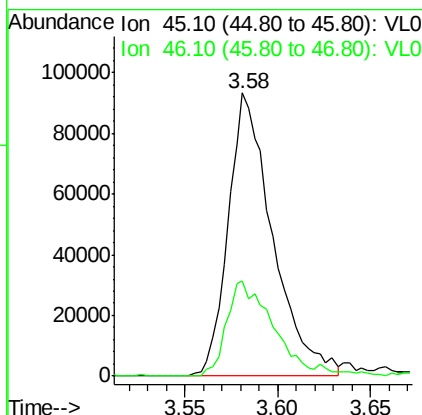
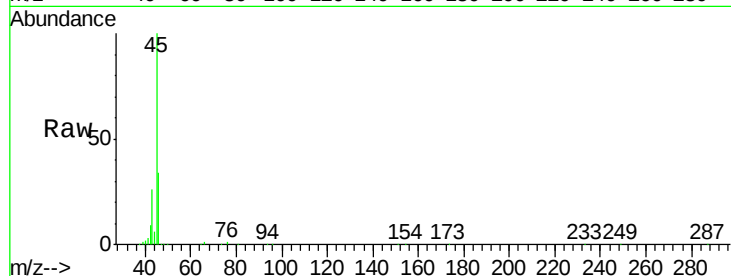
#13
Ethanol
Concen: 9.345 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.00 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 154912
Ion Ratio Lower Upper
45 100
46 36.3 15.4 61.4

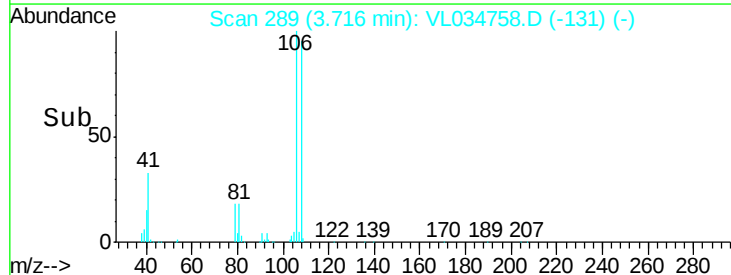
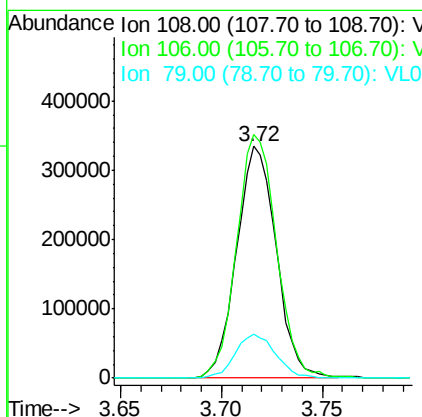
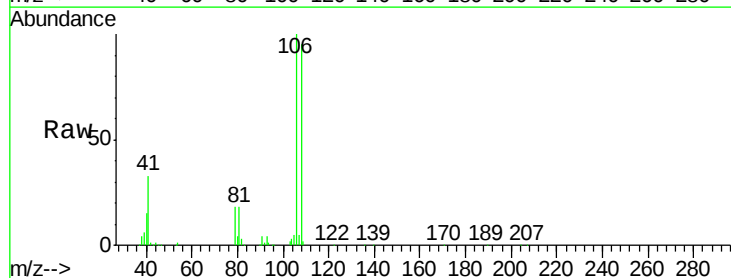
Manual Integrations
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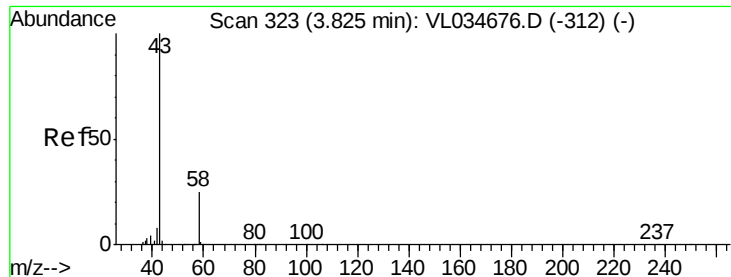
MMDadoda
3/4/2020 4:48:55 PM



#14
Bromoethene
Concen: 9.760 ppbv
RT: 3.72 min Scan# 289
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion: 108 Resp: 461334
Ion Ratio Lower Upper
108 100
106 106.4 86.7 130.1
79 19.6 15.0 22.6





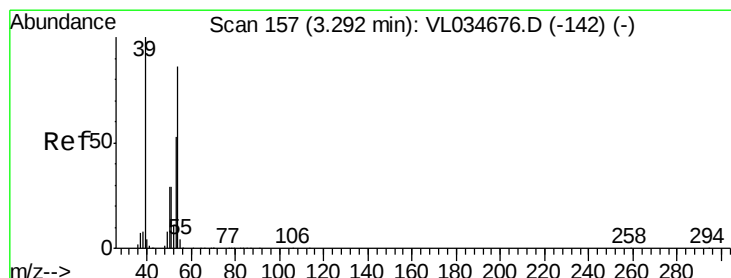
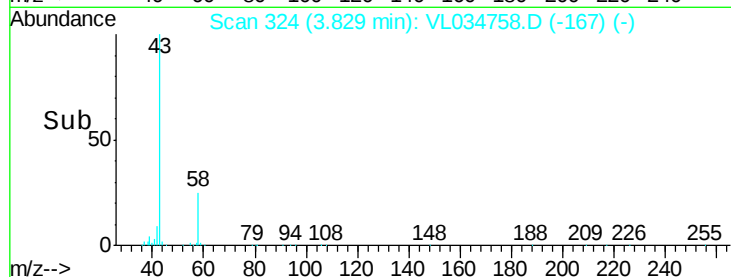
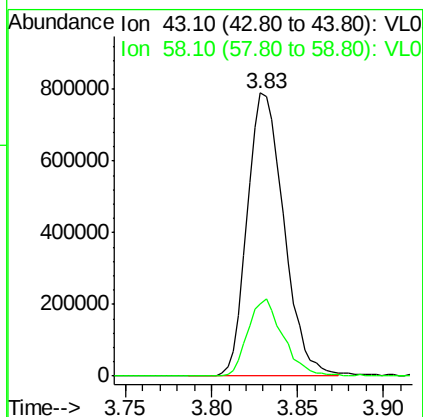
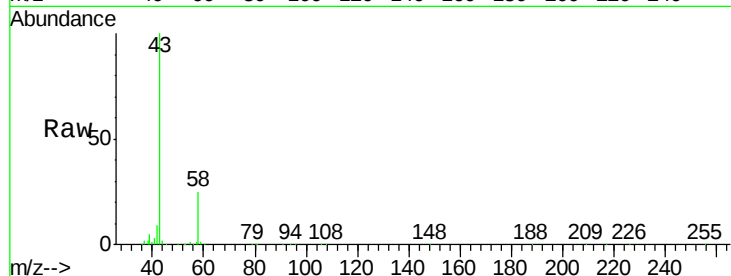
#15
Acetone
Concen: 8.804 ppbv
RT: 3.83 min Scan# 324
Delta R.T. 0.00 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1166911
Ion Ratio Lower Upper
43 100
58 26.3 21.4 32.0

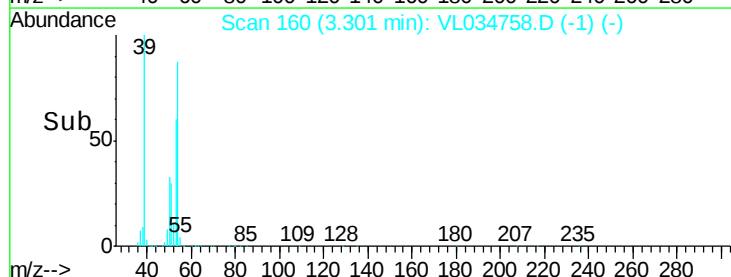
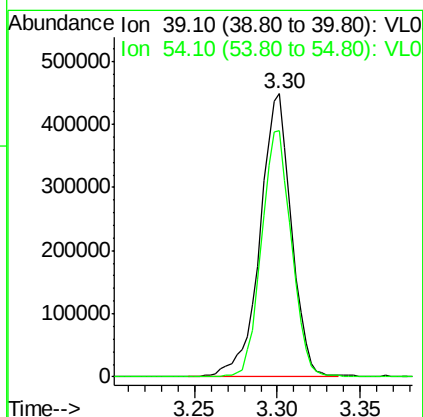
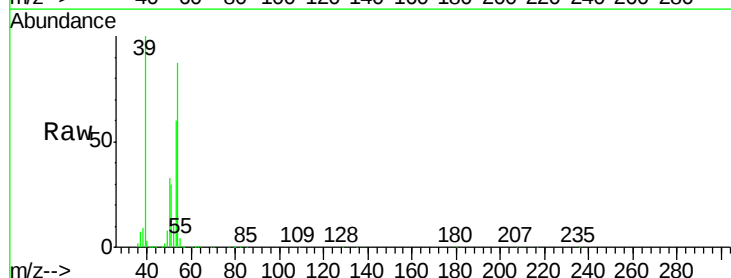
Manual Integrations
APPROVED

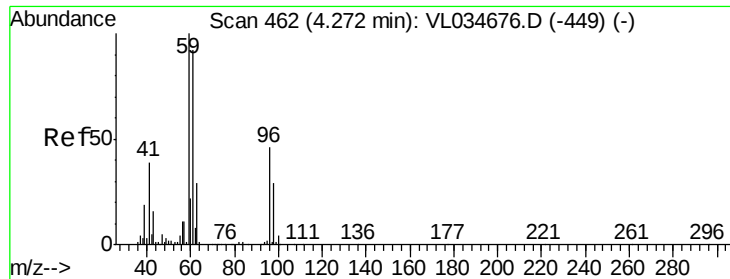
MMDadoda
3/4/2020 4:48:55 PM



#16
1,3-Butadiene
Concen: 9.613 ppbv
RT: 3.30 min Scan# 160
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion: 39 Resp: 589813
Ion Ratio Lower Upper
39 100
54 83.2 67.0 100.6





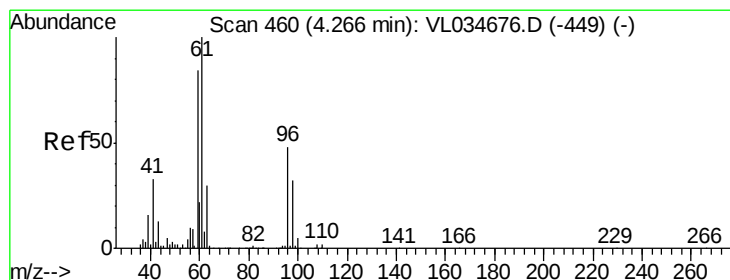
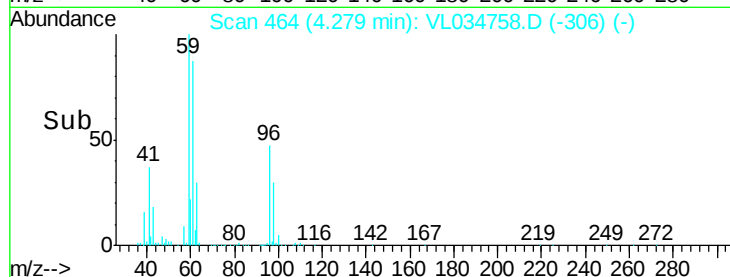
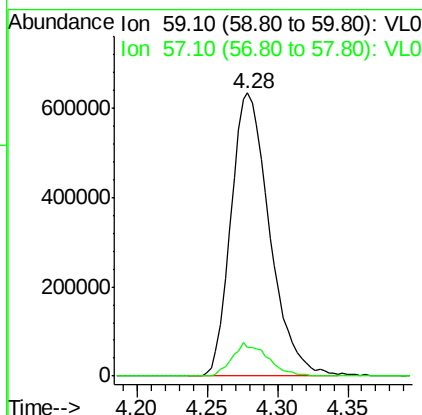
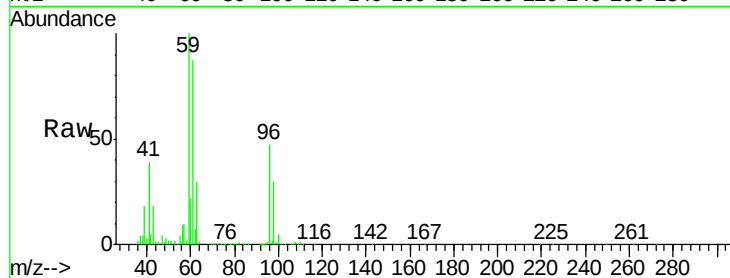
#17
 tert-Butyl alcohol
 Concen: 11.987 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 59 Resp: 1217505
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.8 13.2

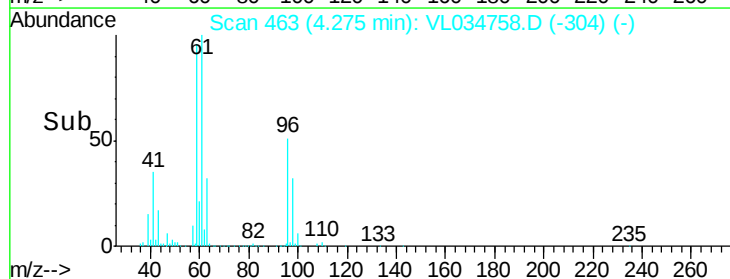
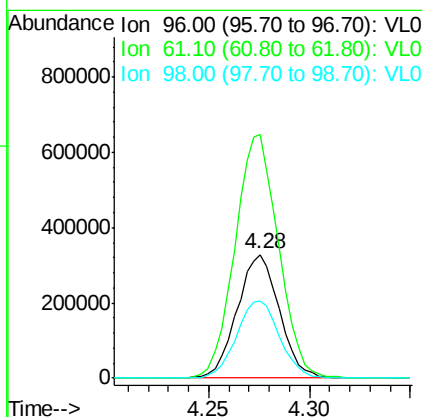
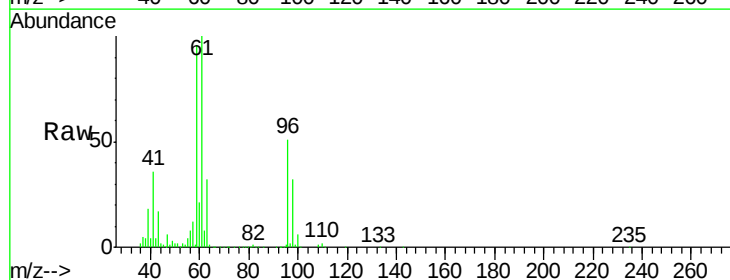
Manual Integrations
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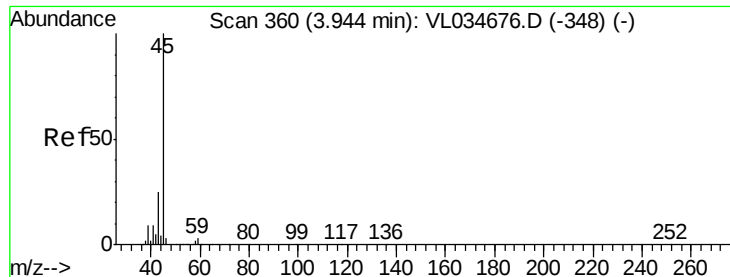
MMDadoda
 3/4/2020 4:48:55 PM



#18
 1,1-Dichloroethene
 Concen: 9.446 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion: 96 Resp: 480436
 Ion Ratio Lower Upper
 96 100
 61 197.1 165.1 247.7
 98 62.8 52.7 79.1





#19

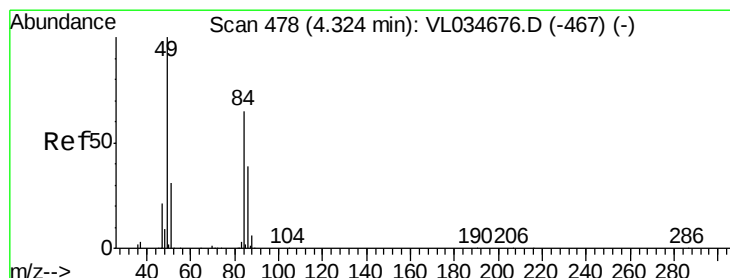
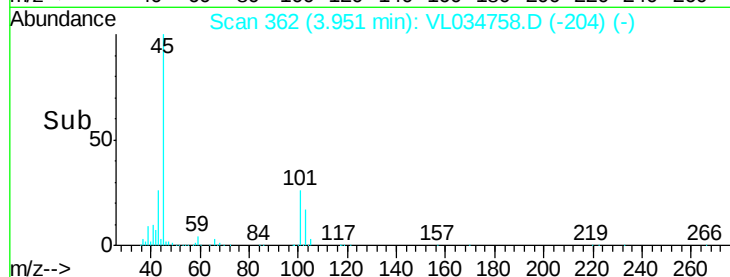
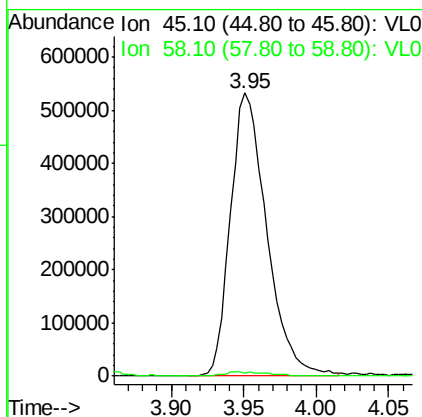
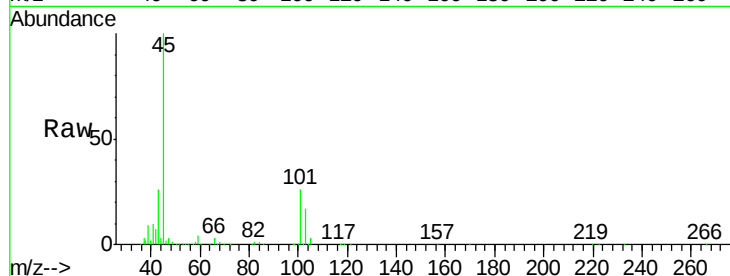
Isopropyl Alcohol
 Concen: 11.729 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.1	1.8	2.6

Manual Integrations
 APPROVED

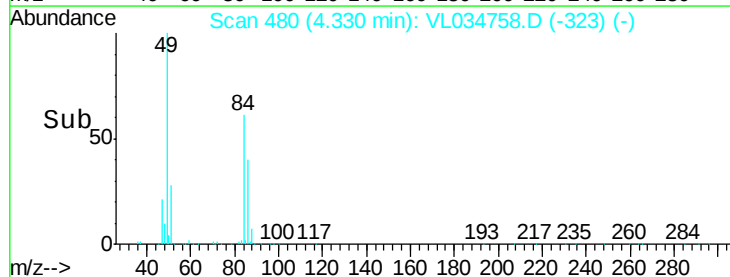
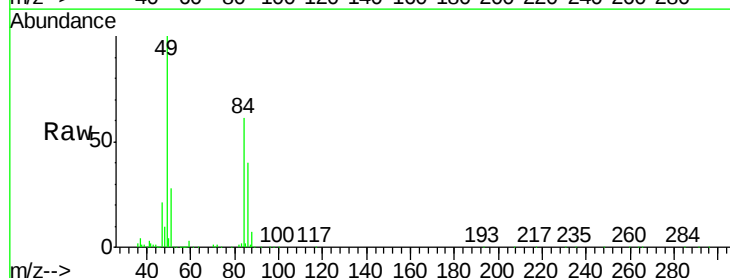
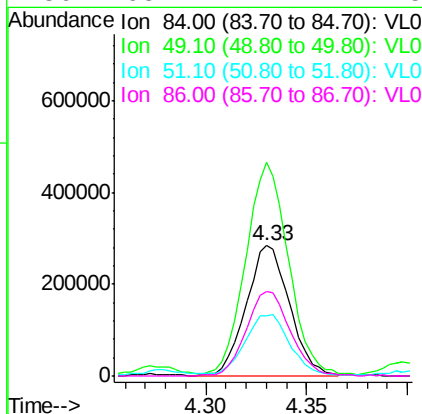
MMDadoda
 3/4/2020 4:48:55 PM

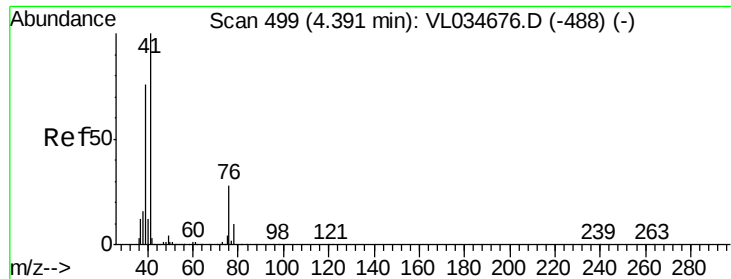


#20

Methylene Chloride
 Concen: 8.628 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	162.2	122.8	184.2
51	45.0	38.6	58.0
86	65.4	47.7	71.5





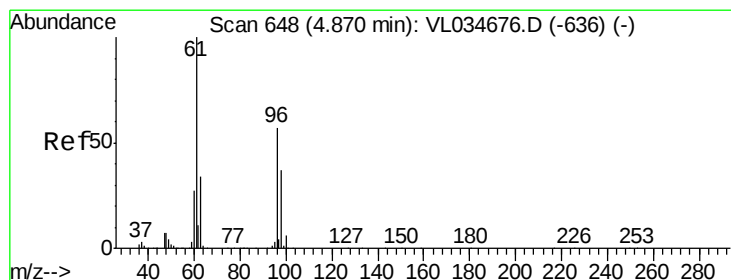
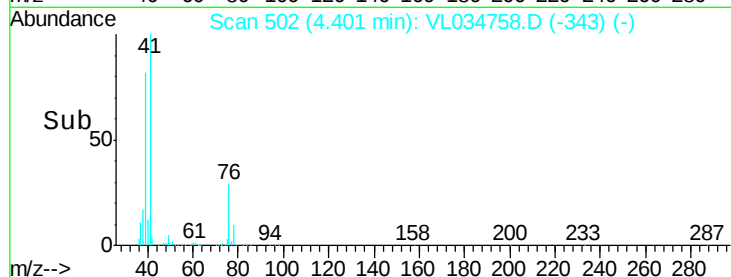
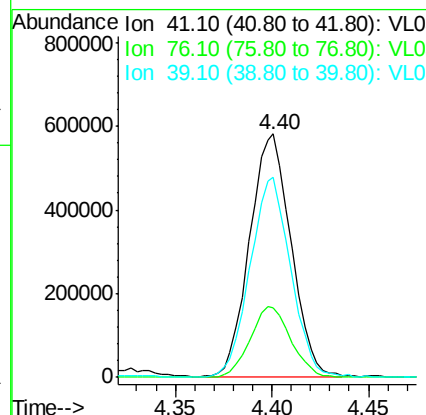
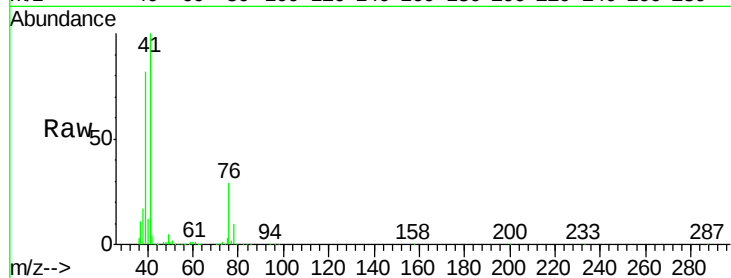
#21
Allvl Chloride
Concen: 9.852 ppbv
RT: 4.40 min Scan# 502
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.9	22.8	34.2
39	81.5	61.7	92.5

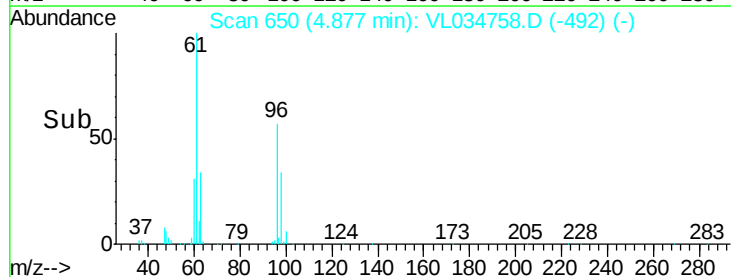
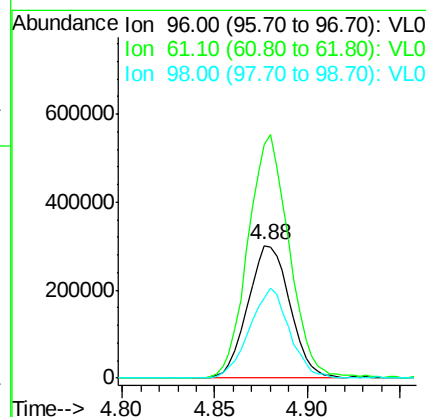
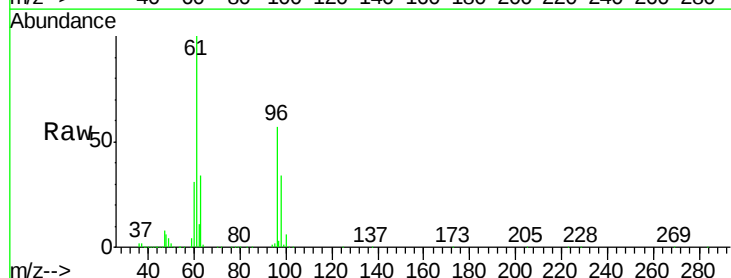
Manual Integrations
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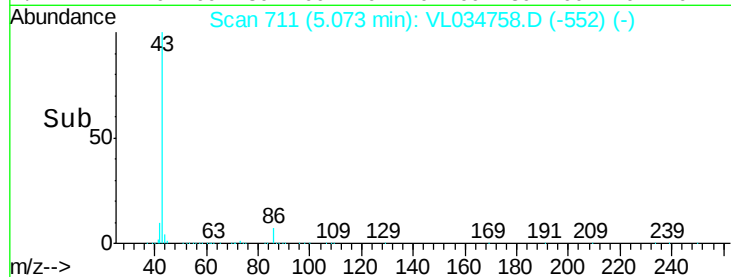
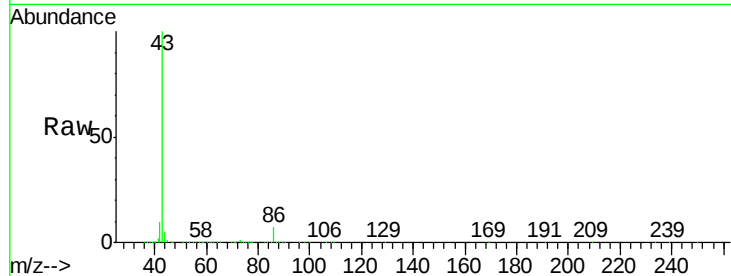
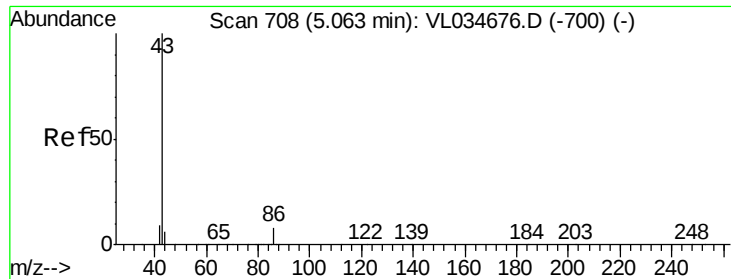
MMDadoda
3/4/2020 4:48:55 PM



#22
trans-1,2-Dichloroethene
Concen: 9.651 ppbv
RT: 4.88 min Scan# 650
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.1	139.4	209.0
98	60.3	51.3	76.9





#23

Vinyl Acetate

Concen: 10.299 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Tot Ion: 43 Resp: 1855882

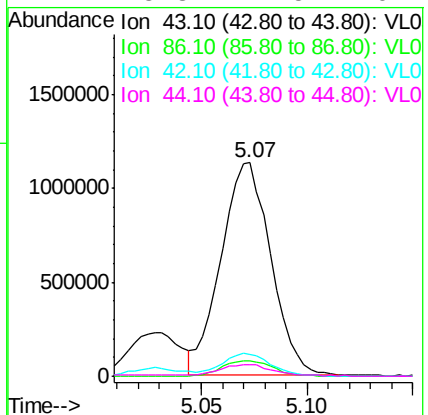
Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

42 10.4 8.0 12.0

44 5.3 4.5 6.7



Instrument :

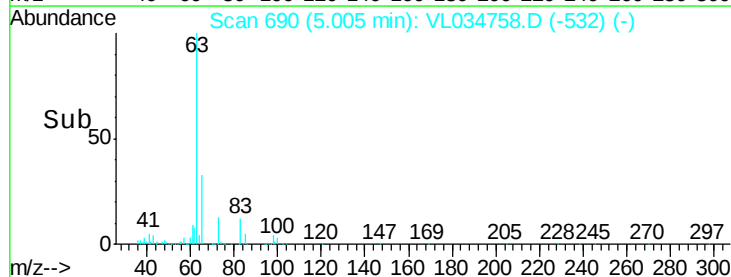
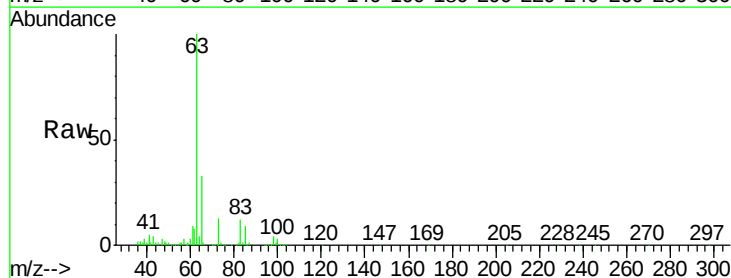
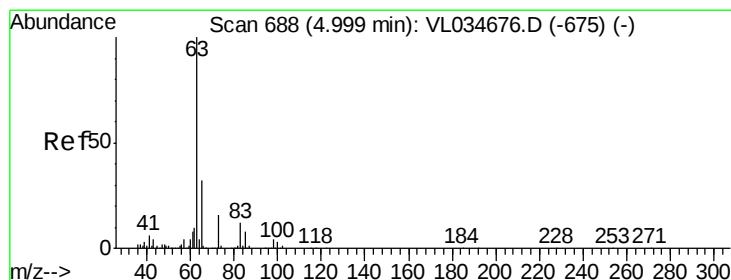
MSVOA_L

ClientSampleId :

VSTDCCC010

Manual Integrations
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3/4/2020 4:48:55 PM



#24

1,1-Dichloroethane

Concen: 9.376 ppbv

RT: 5.01 min Scan# 690

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

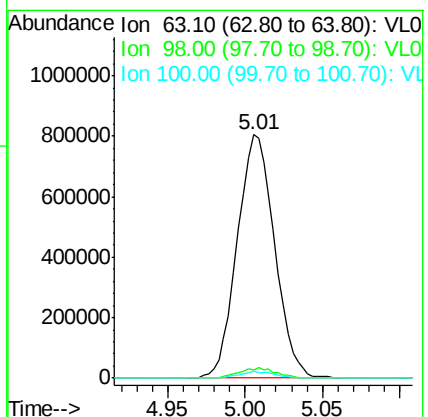
Tgt Ion: 63 Resp: 1349241

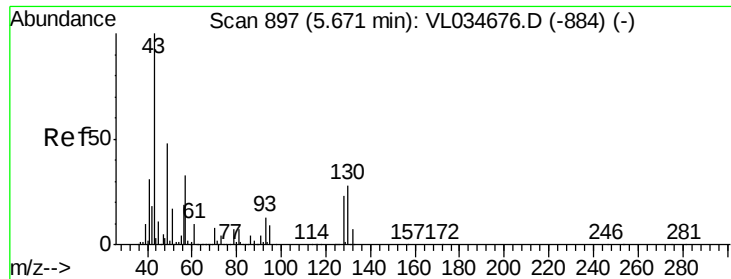
Ion Ratio Lower Upper

63 100

98 3.6 2.1 6.2

100 3.0 1.4 4.0





#25

Ethyl Acetate

Concen: 9.579 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2247689

Ion Ratio Lower Upper

43 100

45 10.4 8.2 12.4

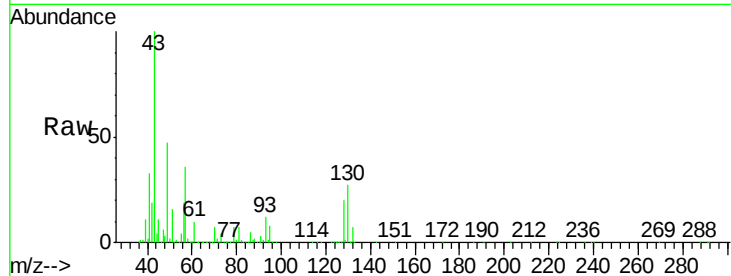
61 9.8 7.8 11.6

70 7.4 6.1 9.1

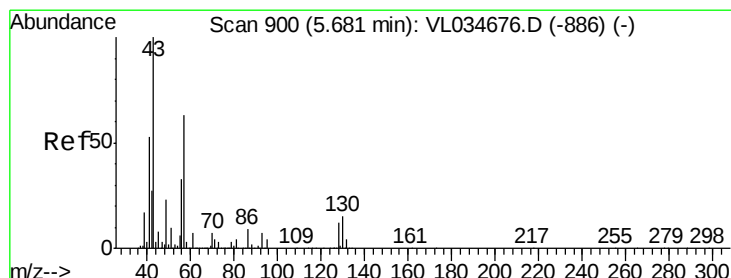
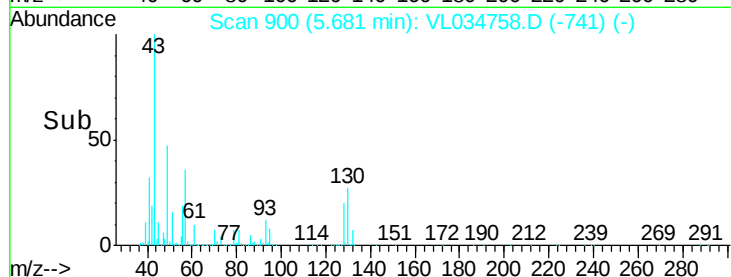
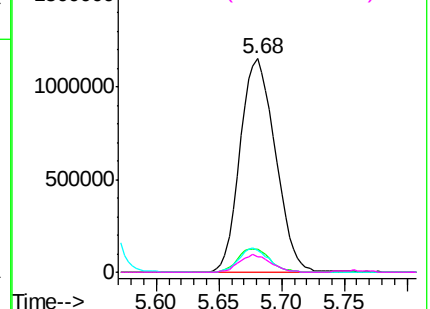
Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.320 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Tgt Ion: 57 Resp: 1007869

Ion Ratio Lower Upper

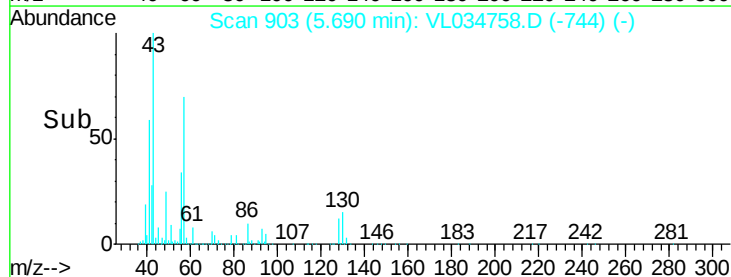
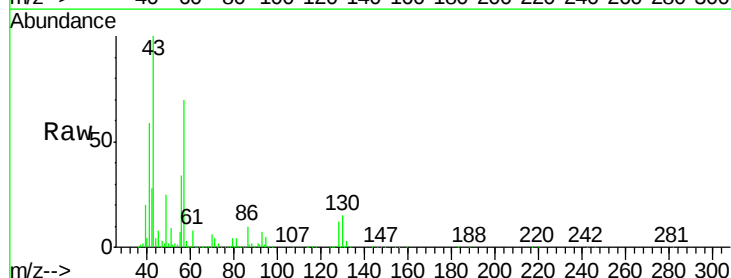
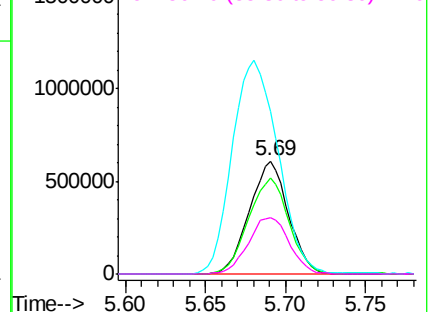
57 100

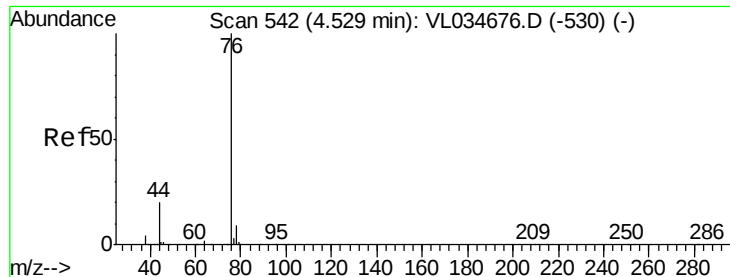
41 89.3 70.3 105.5

43 224.0 177.0 265.4

56 53.0 42.6 64.0

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.327 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1267748

Ion Ratio Lower Upper

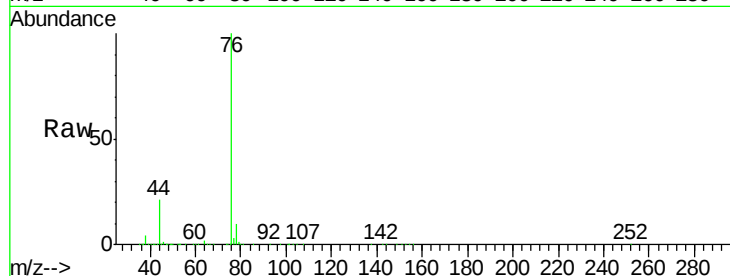
76 100

44 20.6 15.3 22.9

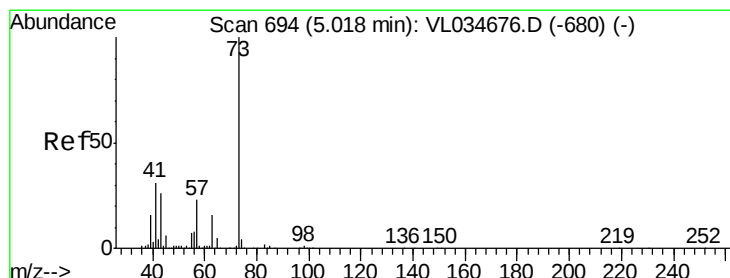
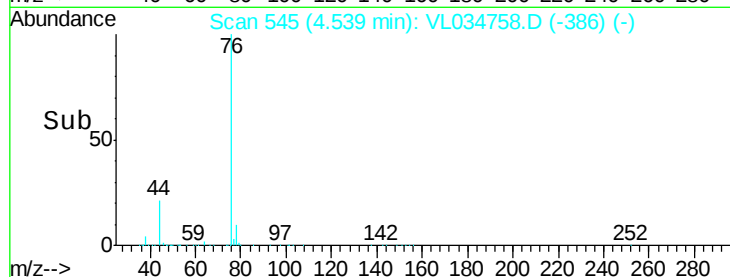
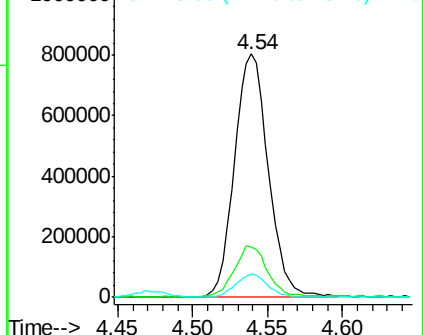
78 9.4 7.6 11.4

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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: 10.072 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.01 min

Lab File: VL034758.D

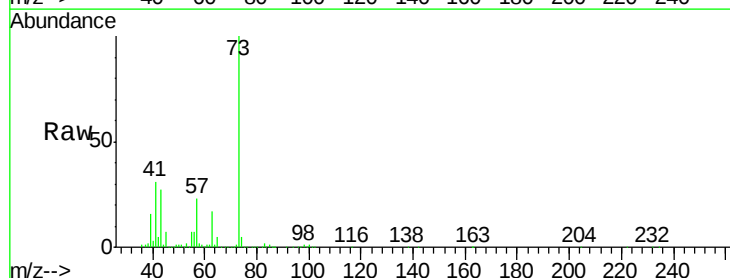
Acq: 3 Mar 2020 9:43

Tgt Ion: 73 Resp: 1556027

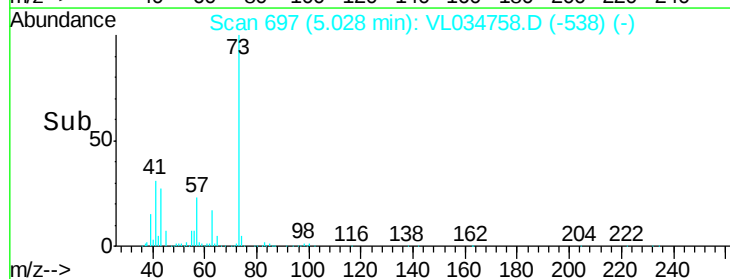
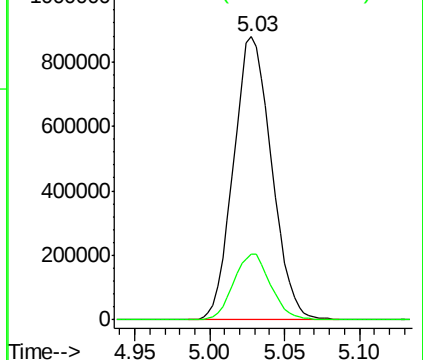
Ion Ratio Lower Upper

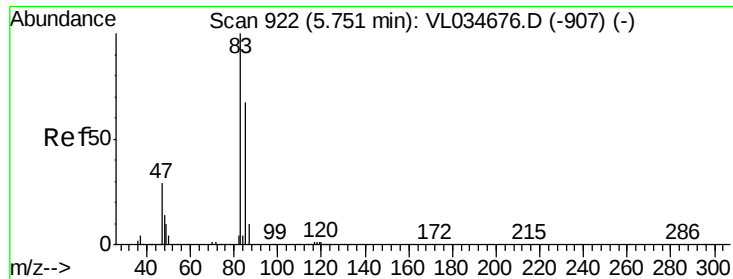
73 100

57 22.8 18.6 28.0



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





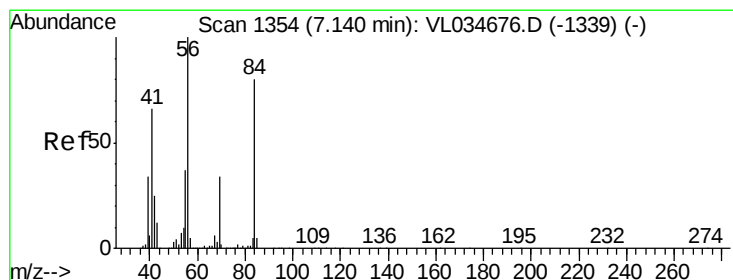
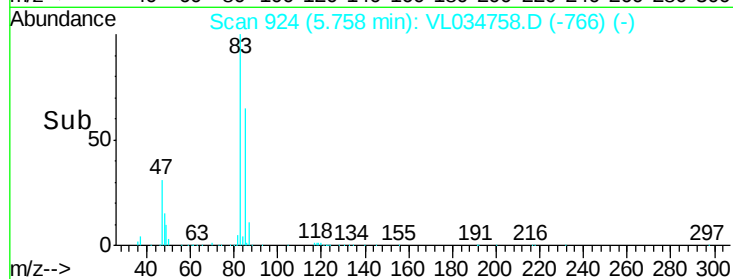
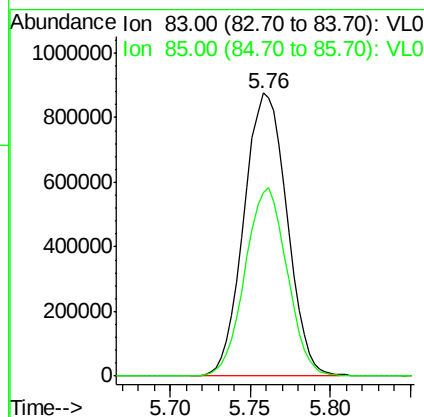
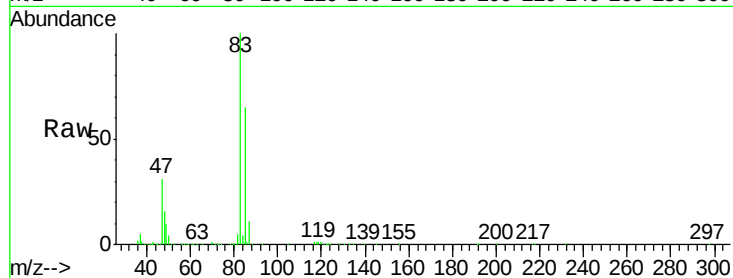
#29
Chloroform
Concen: 9.377 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1615704
Ion Ratio Lower Upper
83 100
85 64.5 53.9 80.9

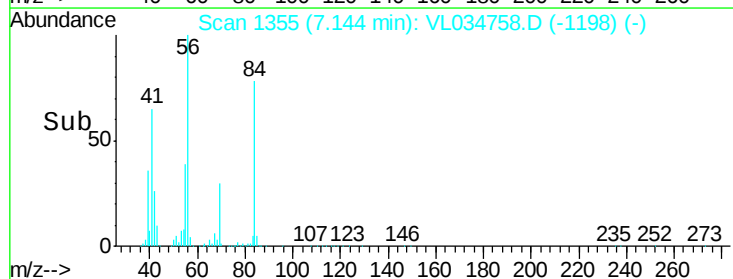
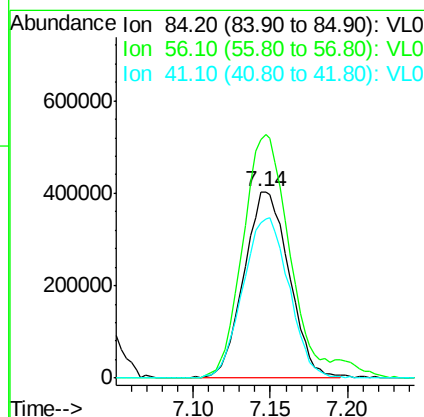
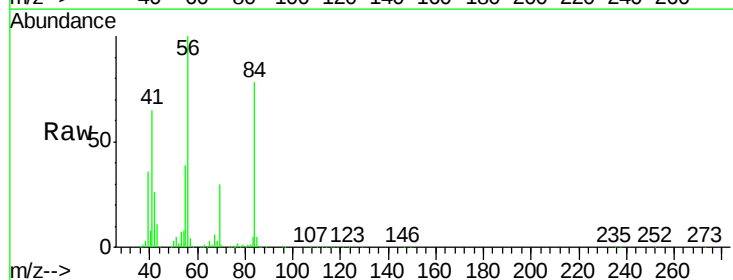
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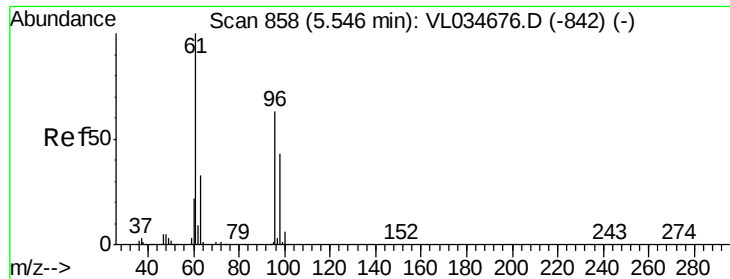
MMDadoda
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#30
Cyclohexane
Concen: 9.766 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.00 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion: 84 Resp: 818471
Ion Ratio Lower Upper
84 100
56 139.7 113.4 170.2
41 88.2 68.2 102.4





#31

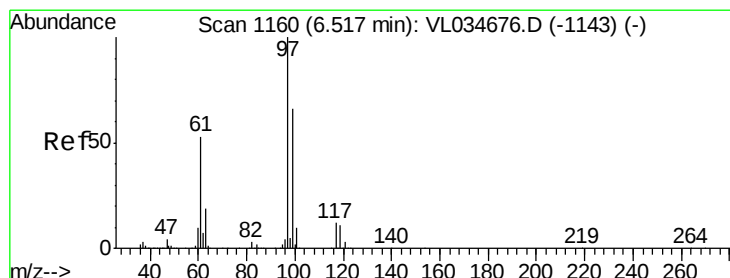
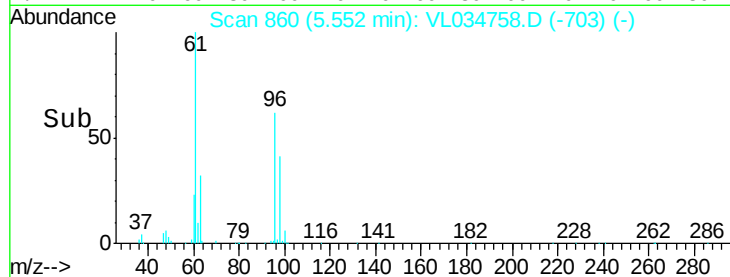
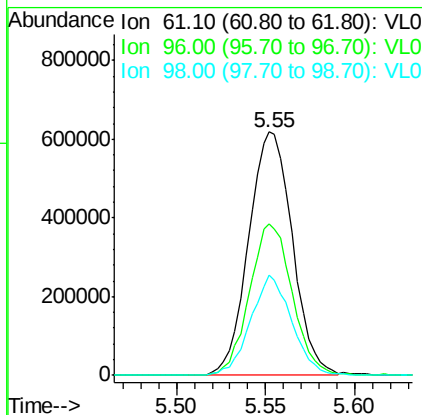
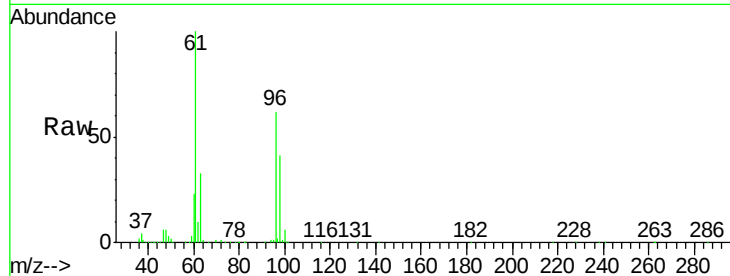
cis-1,2-Dichloroethene
Concen: 9.970 ppbv
RT: 5.55 min Scan# 860
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 61 Resp: 1061069
Ion Ratio Lower Upper
61 100
96 62.0 50.2 75.2
98 41.1 34.3 51.5

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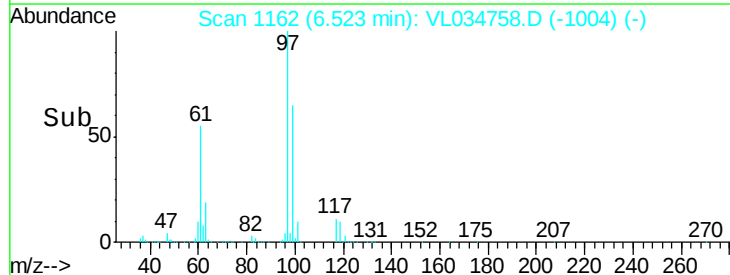
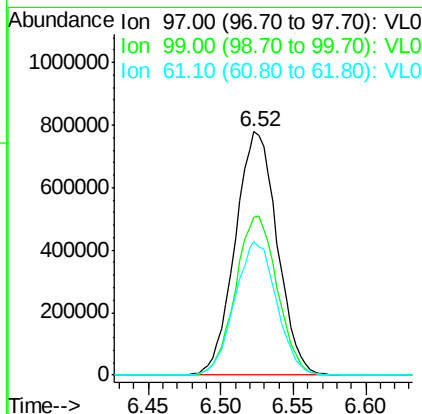
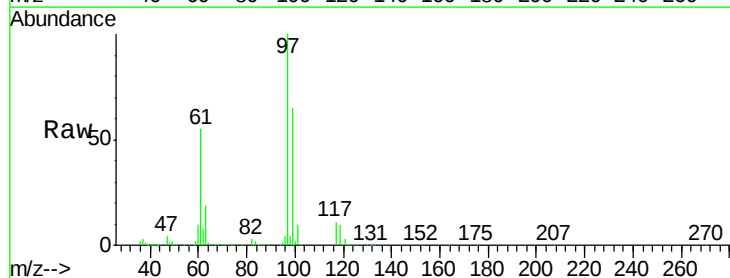
MMDadoda
3/4/2020 4:48:55 PM

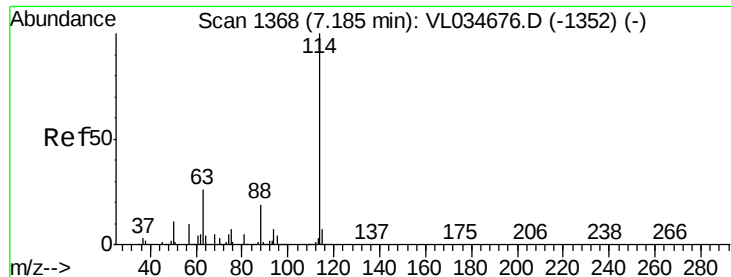


#32

1,1,1-Trichloroethane
Concen: 9.758 ppbv
RT: 6.52 min Scan# 1162
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion: 97 Resp: 1570049
Ion Ratio Lower Upper
97 100
99 64.9 52.3 78.5
61 54.7 42.8 64.2





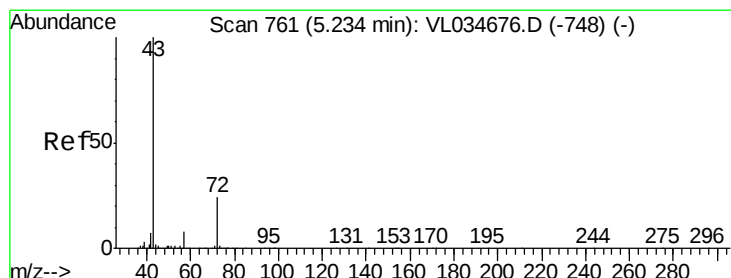
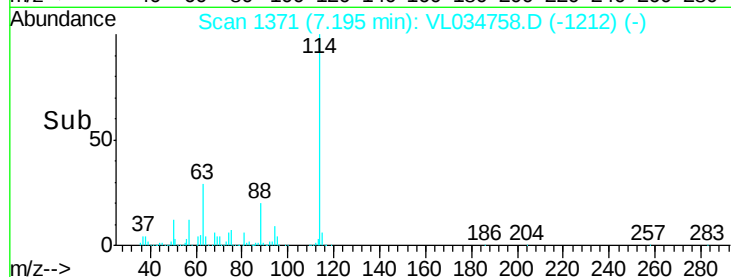
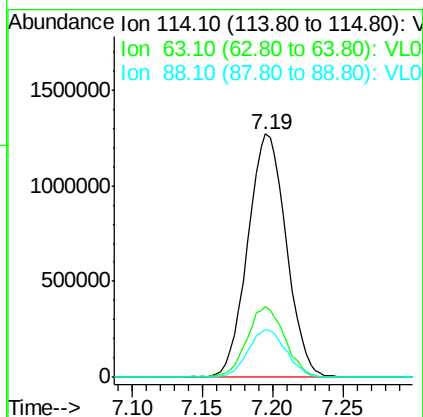
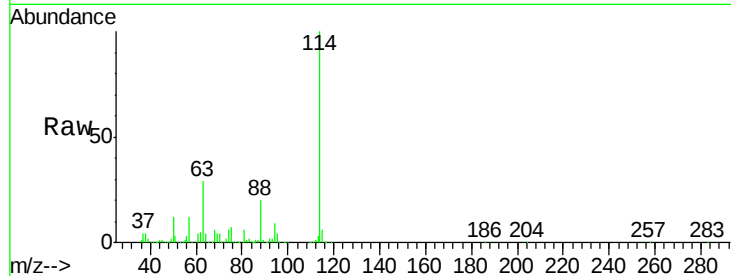
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 2428870
 Ion Ratio Lower Upper
 114 100
 63 29.0 22.9 34.3
 88 19.4 15.8 23.6

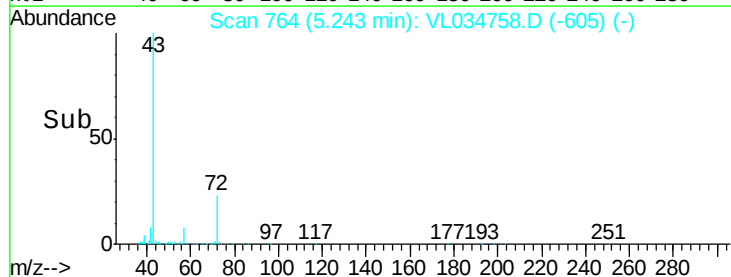
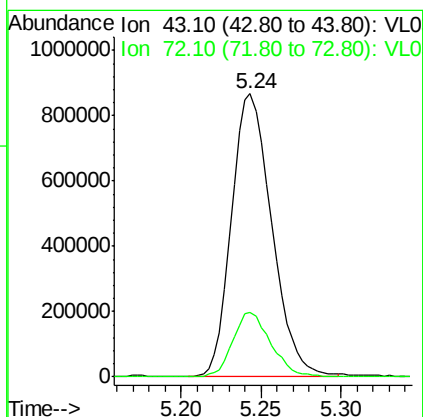
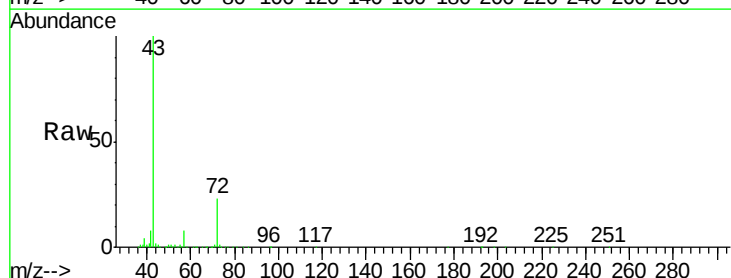
Manual Integrations
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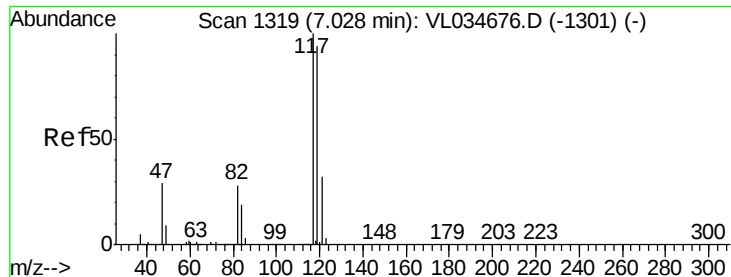
MMDadoda
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#34
 2-Butanone
 Concen: 9.706 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion: 43 Resp: 1483839
 Ion Ratio Lower Upper
 43 100
 72 21.8 18.2 27.2





#35

Carbon Tetrachloride

Concen: 9.998 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1626282

Ion Ratio Lower Upper

117 100

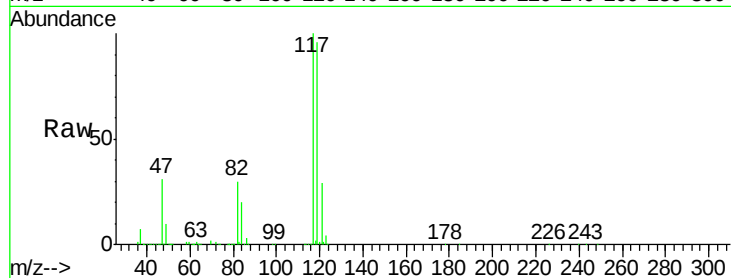
119 96.2 75.5 113.3

121 29.3 25.4 38.0

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MMDadoda

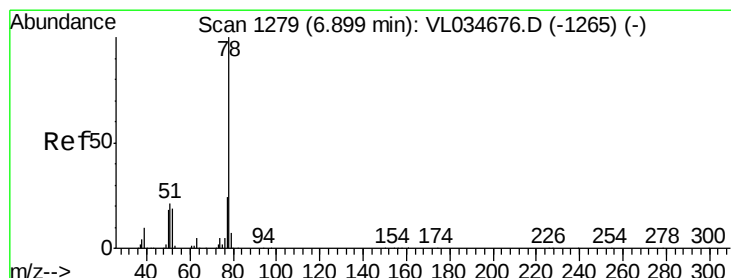
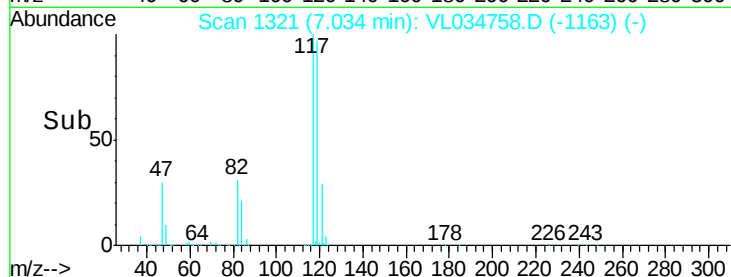
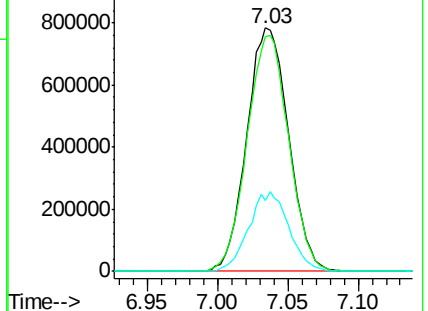
3/4/2020 4:48:55 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.417 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

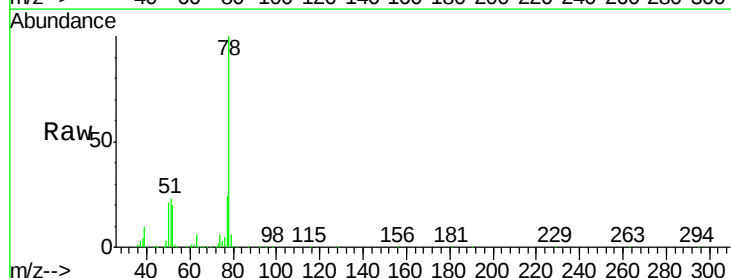
Tgt Ion: 78 Resp: 1975472

Ion Ratio Lower Upper

78 100

77 24.2 19.5 29.3

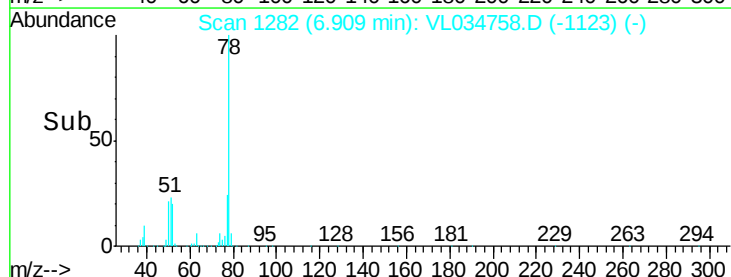
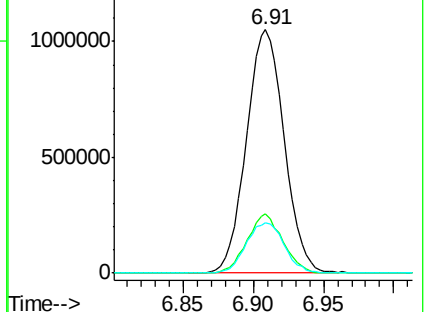
50 20.5 14.6 21.8

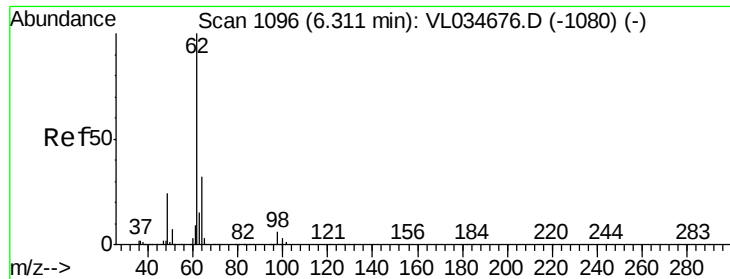


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





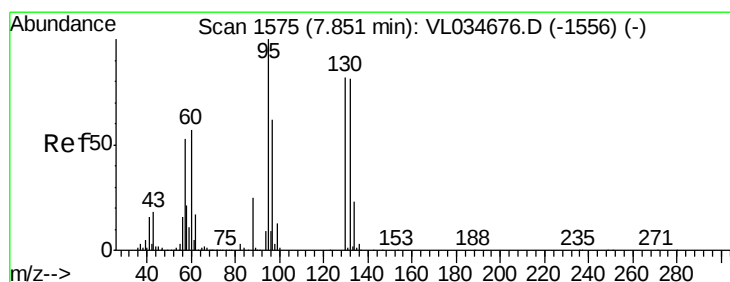
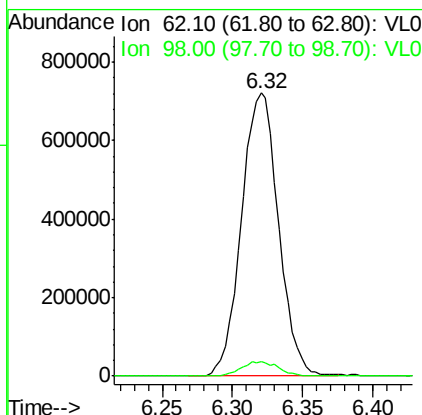
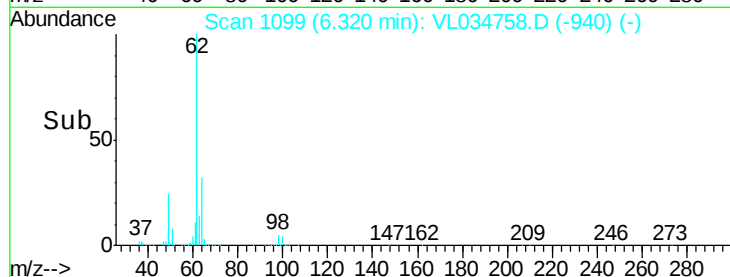
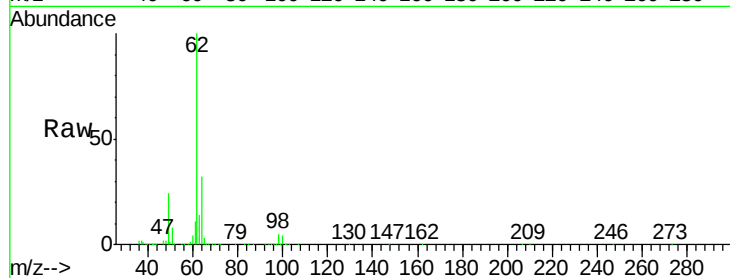
#37
 1,2-Dichloroethane
 Concen: 10.033 ppbv
 RT: 6.32 min Scan# 1099
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1326749
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.7 7.1

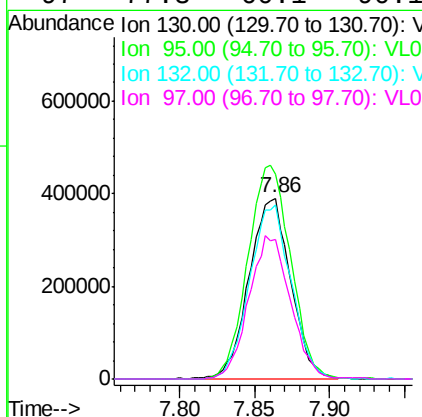
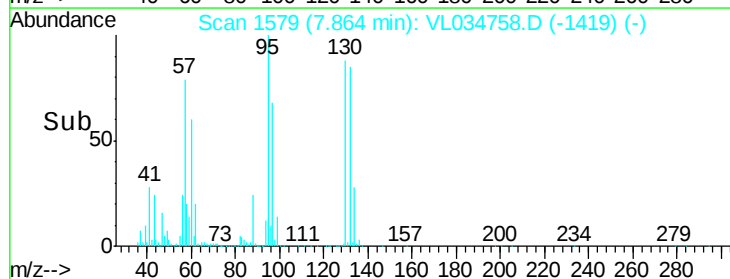
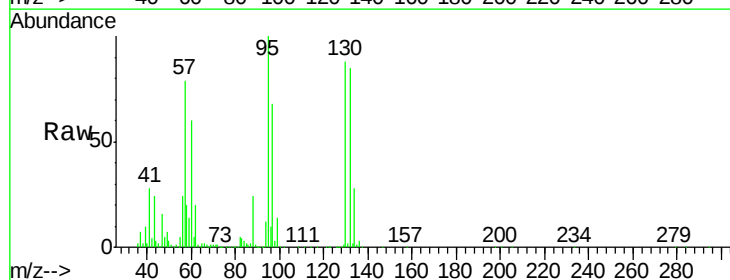
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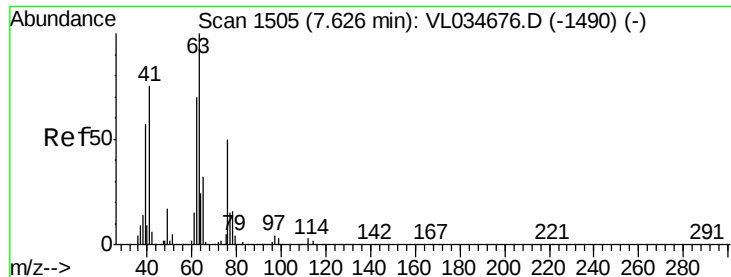
MMDadoda
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#38
 Trichloroethene
 Concen: 9.319 ppbv
 RT: 7.86 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion: 130 Resp: 753519
 Ion Ratio Lower Upper
 130 100
 95 112.9 97.1 145.7
 132 95.8 78.3 117.5
 97 77.3 60.1 90.1





#39

1,2-Dichloropropane

Concen: 9.582 ppbv

RT: 7.64 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

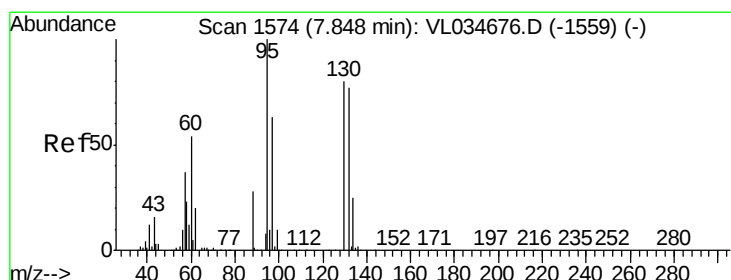
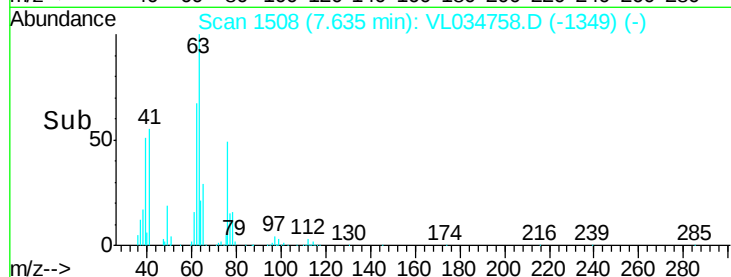
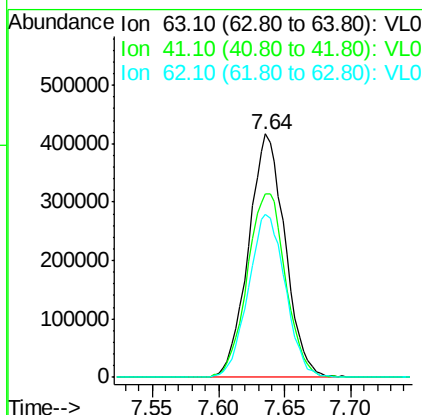
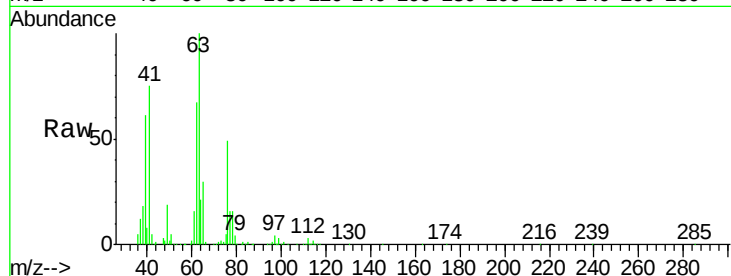
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	799755
Ion Ratio	Lower	Upper	
63	100		
41	75.1	60.2	90.4
62	66.9	56.3	84.5

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.472 ppbv

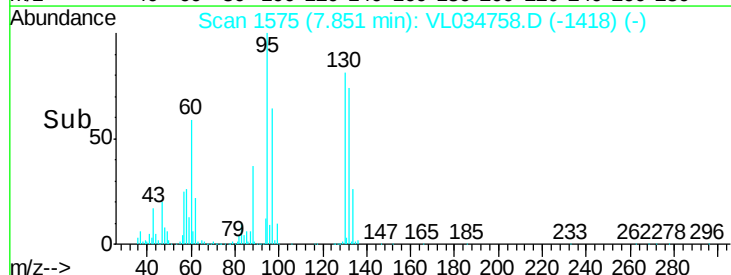
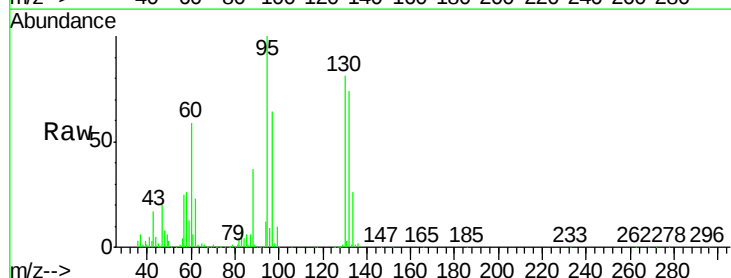
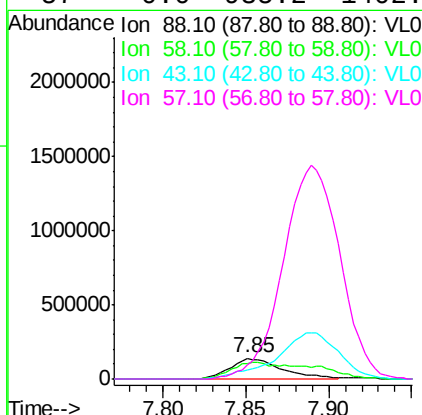
RT: 7.85 min Scan# 1575

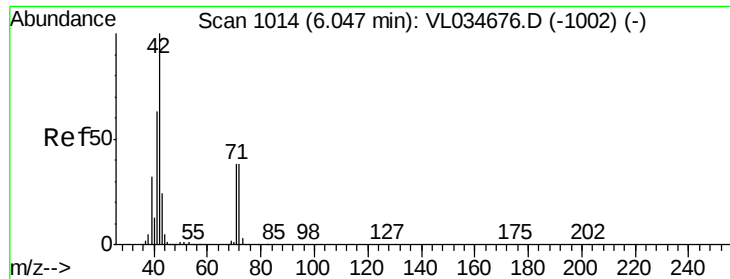
Delta R.T. 0.00 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Tgt Ion:	88	Resp:	297232
Ion Ratio	Lower	Upper	
88	100		
58	135.6	104.6	156.8
43	0.0	212.9	319.3#
57	0.0	935.2	1402.8#





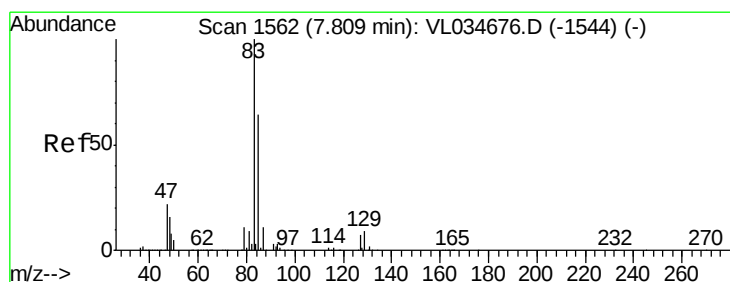
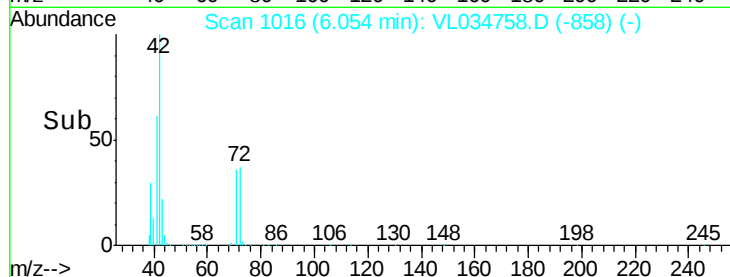
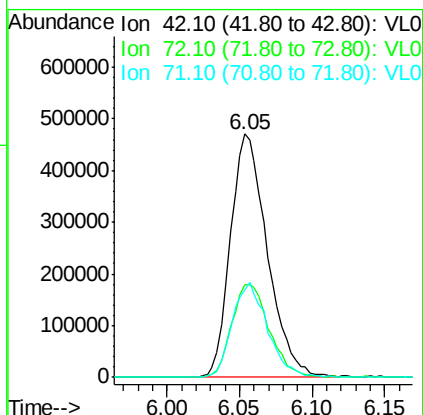
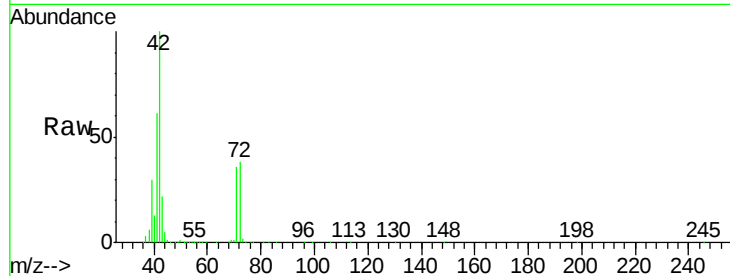
#41
Tetrahydrofuran
Concen: 10.276 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.0	31.7	47.5
71	37.5	30.7	46.1

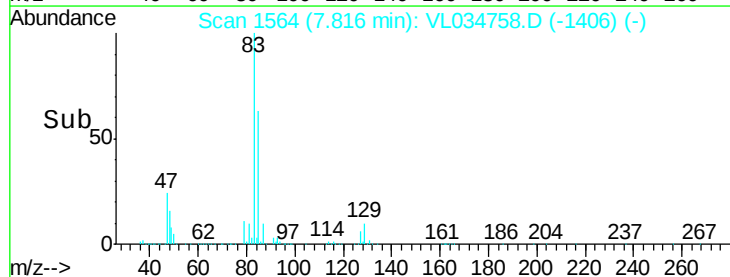
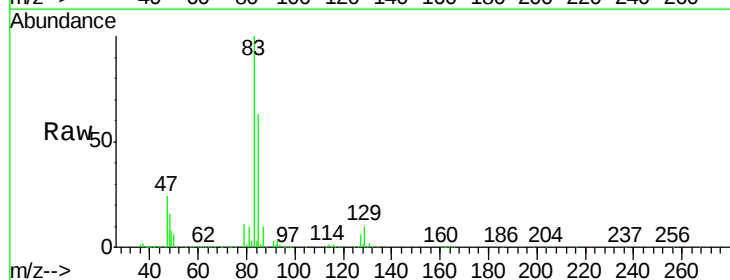
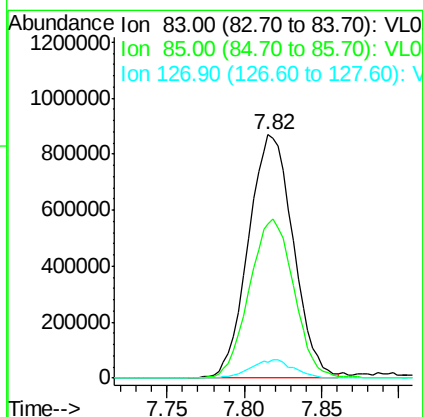
Manual Integrations
APPROVED

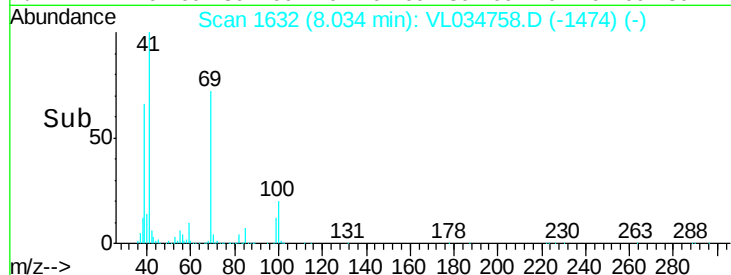
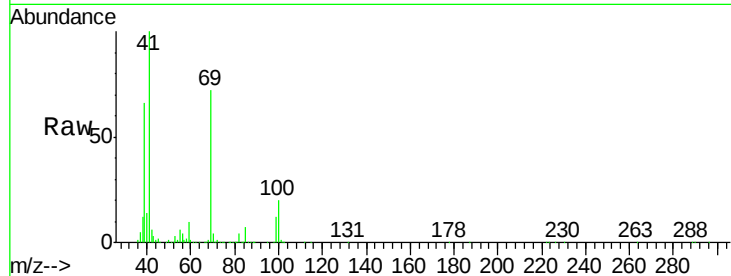
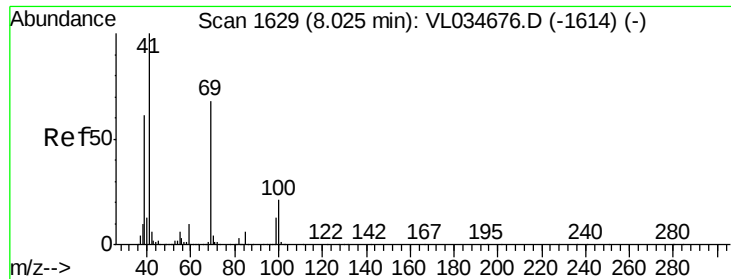
MMDadoda
3/4/2020 4:48:55 PM



#42
Bromodichloromethane
Concen: 10.109 ppbv
RT: 7.82 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.1	76.7
127	6.4	5.8	8.8





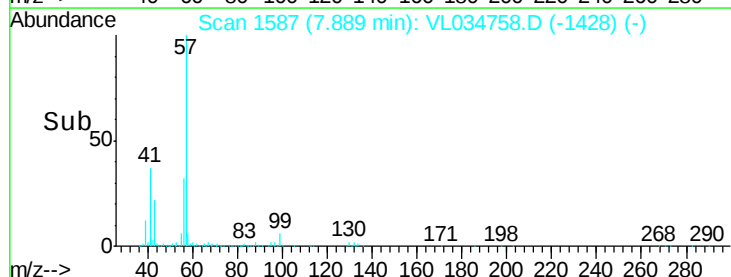
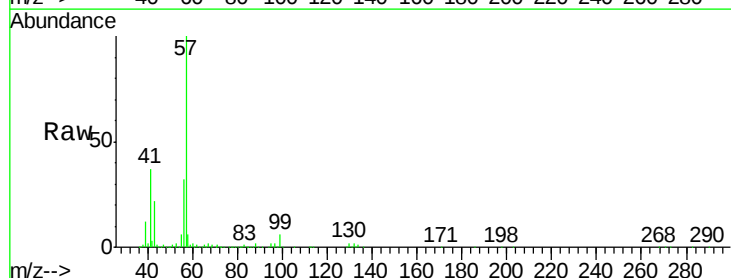
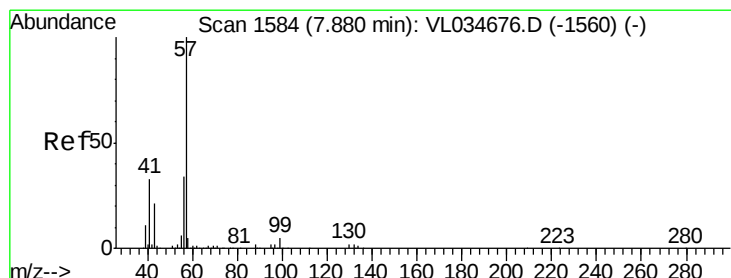
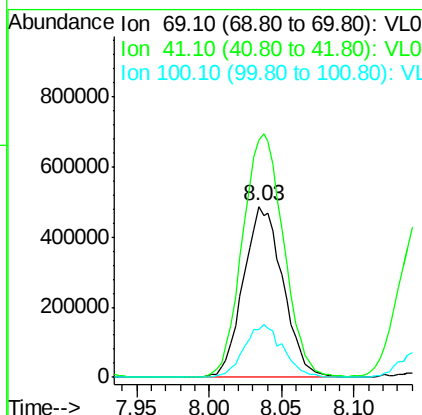
#43
Methvl Methacrylate
Concen: 10.487 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.7	118.2	177.2
100	30.3	24.2	36.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

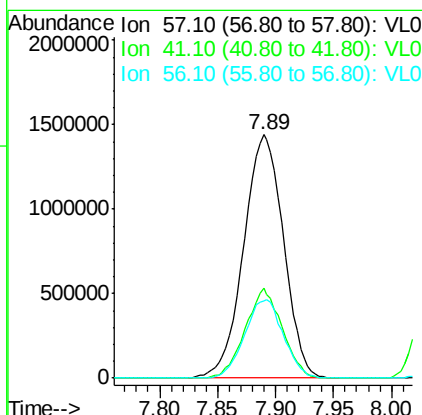
Manual Integrations
APPROVED

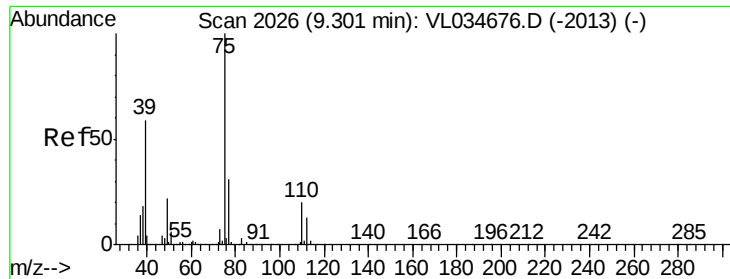
MMDadoda
3/4/2020 4:48:55 PM



#44
2,2,4-Trimethylpentane
Concen: 9.353 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.4	26.0	39.0
56	31.6	25.6	38.4





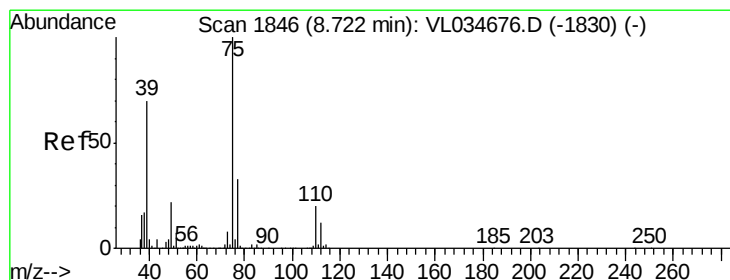
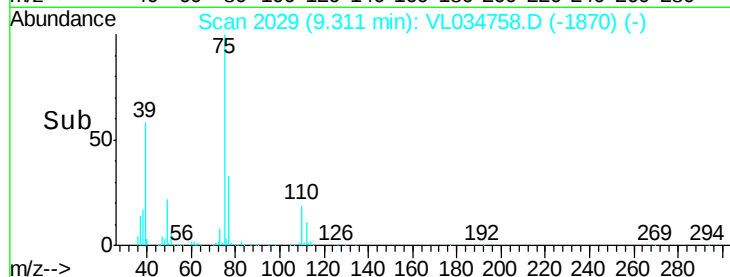
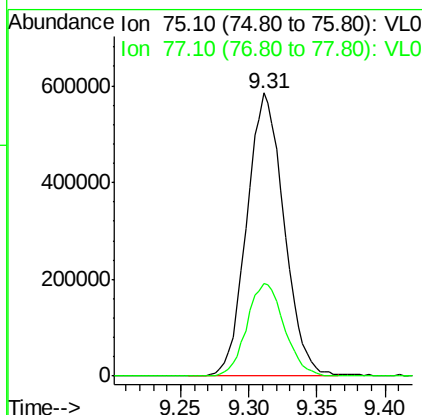
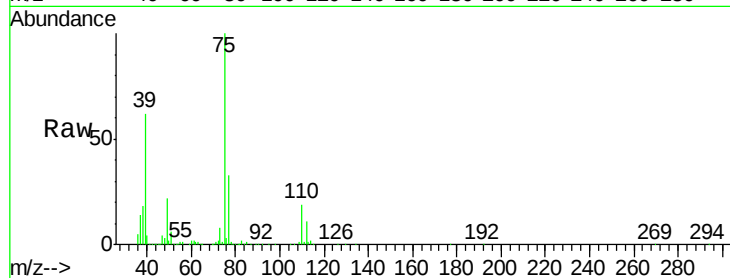
#45
t-1,3-Dichloropropene
Concen: 11.523 ppbv
RT: 9.31 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1109534
Ion Ratio Lower Upper
75 100
77 32.7 25.3 37.9

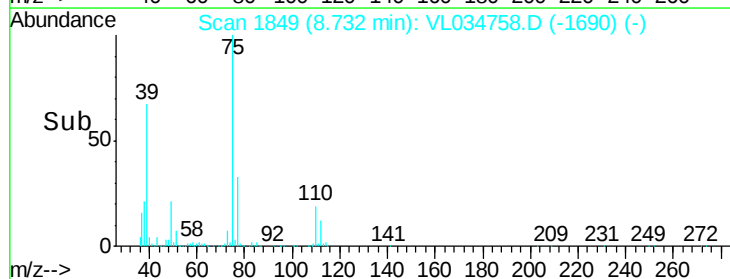
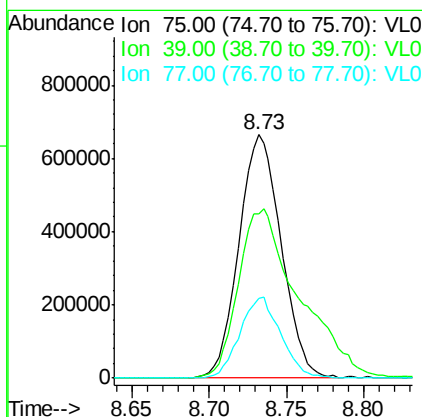
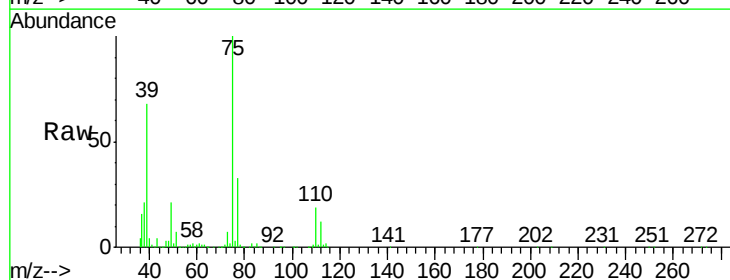
Manual Integrations
APPROVED

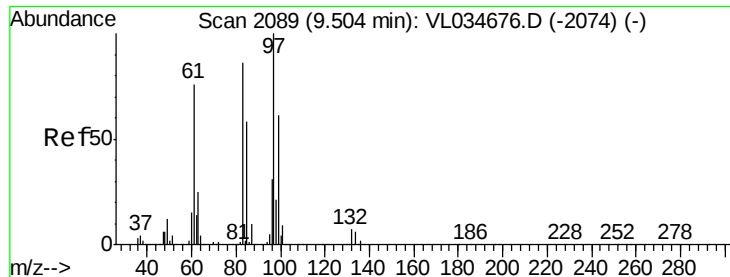
MMDadoda
3/4/2020 4:48:55 PM



#46
cis-1,3-Dichloropropene
Concen: 10.924 ppbv
RT: 8.73 min Scan# 1849
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion: 75 Resp: 1261437
Ion Ratio Lower Upper
75 100
39 67.5 55.7 83.5
77 33.0 26.3 39.5





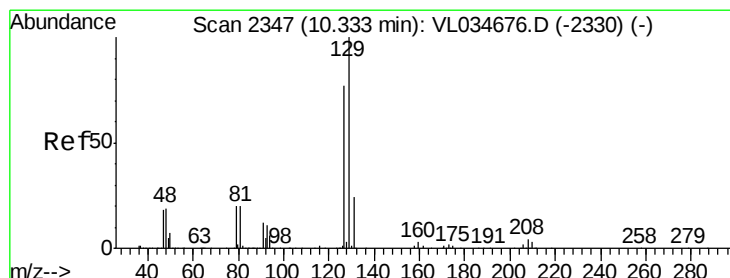
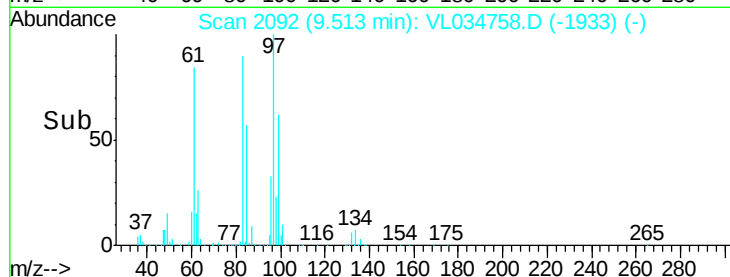
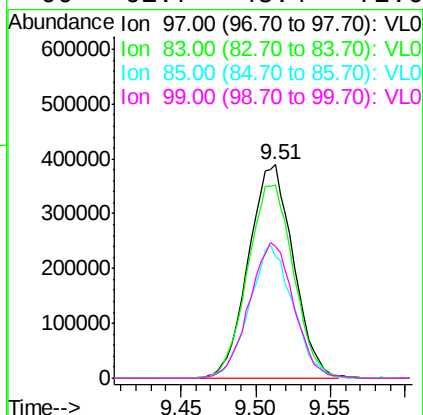
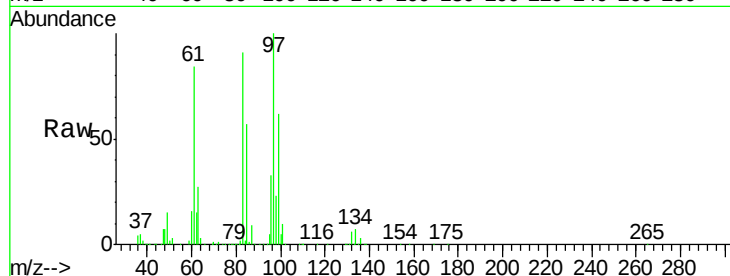
#47
 1,1,2-Trichloroethane
 Concen: 9.475 ppbv
 RT: 9.51 min Scan# 2092
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.6	69.4	104.0	
85	57.0	46.4	69.6	
99	61.7	48.4	72.6	

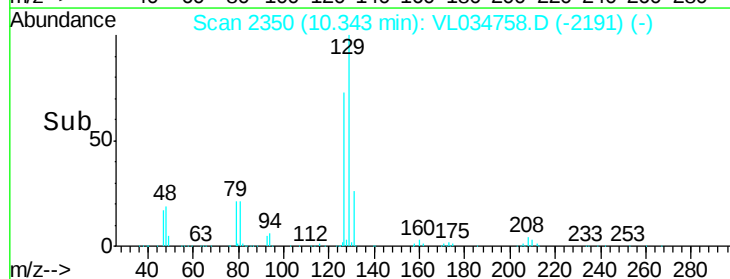
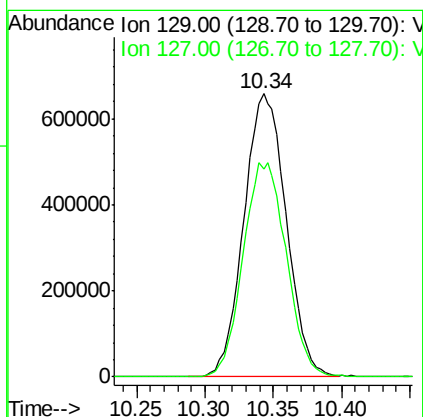
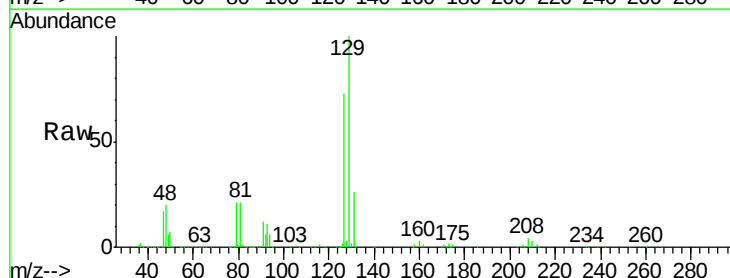
Manual Integrations
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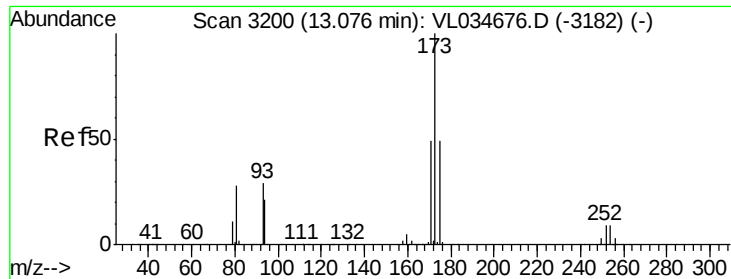
MMDadoda
 3/4/2020 4:48:55 PM



#48
 Dibromochloromethane
 Concen: 10.649 ppbv
 RT: 10.34 min Scan# 2350
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.5	39.3	117.8	





#49

Bromoform

Concen: 10.579 ppbv

RT: 13.09 min Scan# 3205

Delta R.T. 0.02 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1221225

Ion Ratio Lower Upper

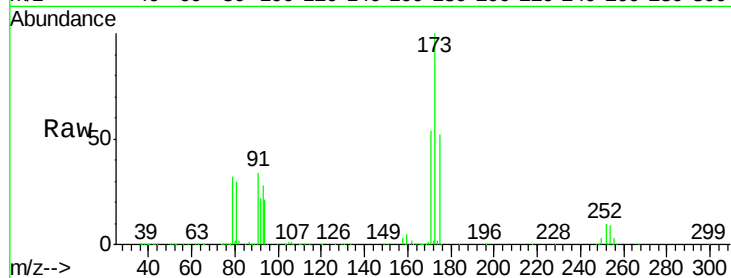
173 100

175 50.0 38.6 58.0

171 52.4 41.5 62.3

Manual Integrations
APPROVED

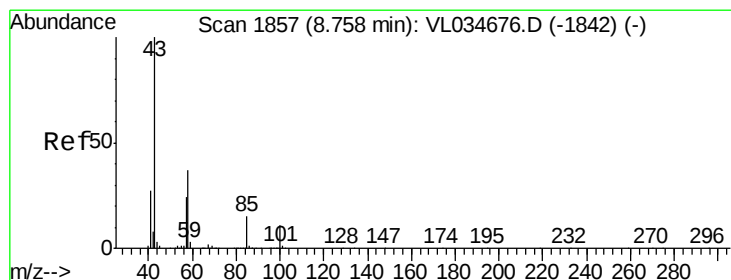
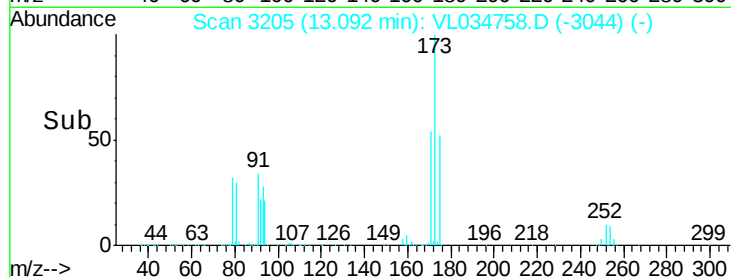
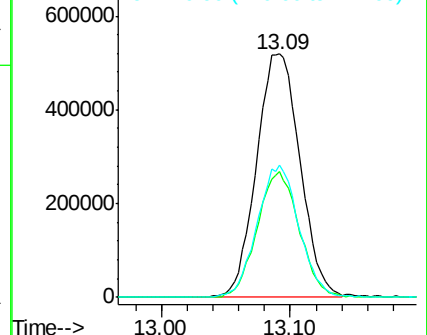
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.180 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VL034758.D

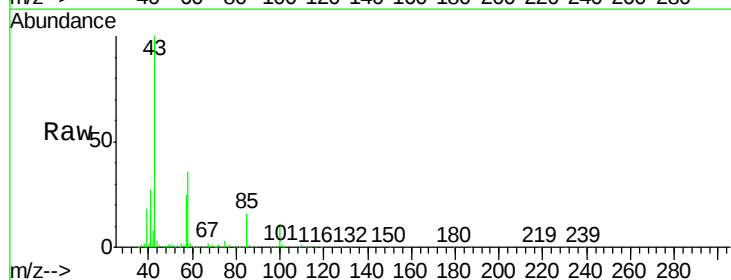
Acq: 3 Mar 2020 9:43

Tgt Ion: 43 Resp: 2204281

Ion Ratio Lower Upper

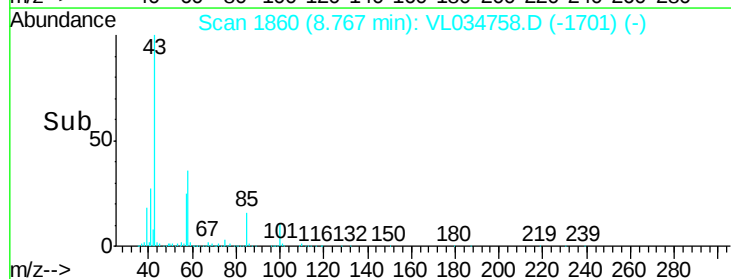
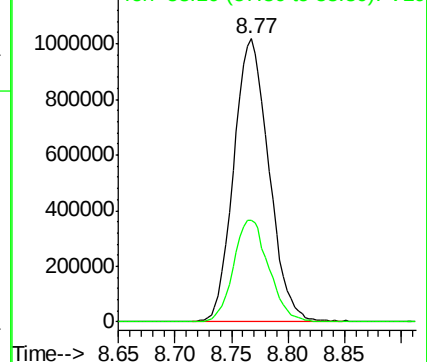
43 100

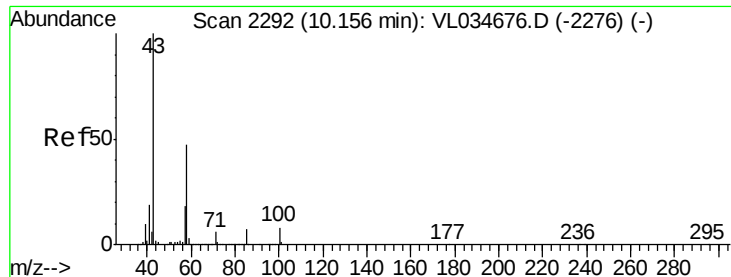
58 36.3 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





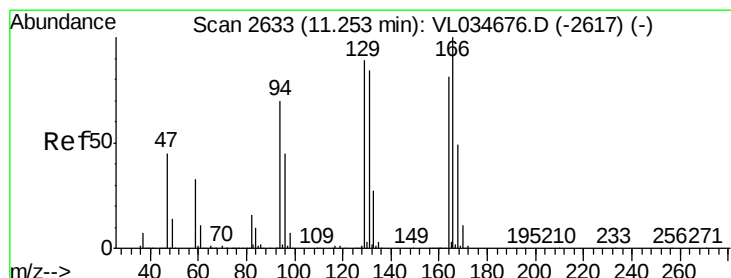
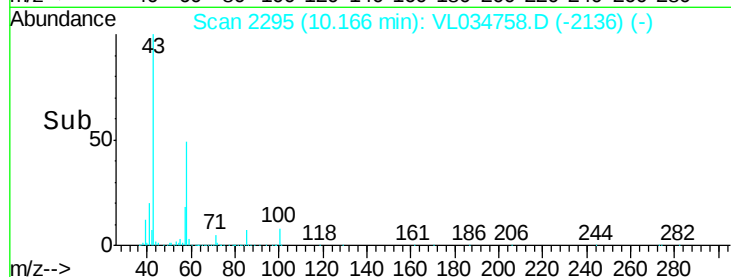
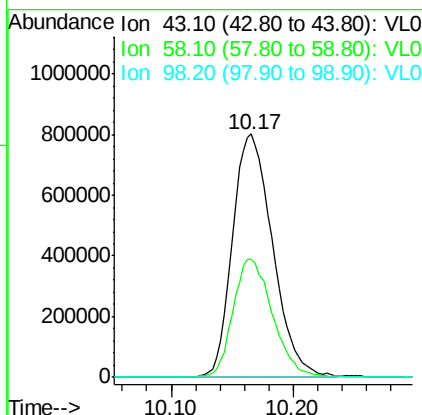
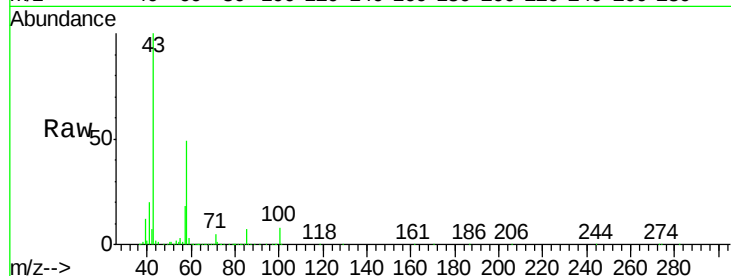
#51
2-Hexanone
Concen: 10.710 ppbv
RT: 10.17 min Scan# 2295
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1824995
Ion Ratio Lower Upper
43 100
58 48.2 39.4 59.0
98 0.3 0.2 0.2#

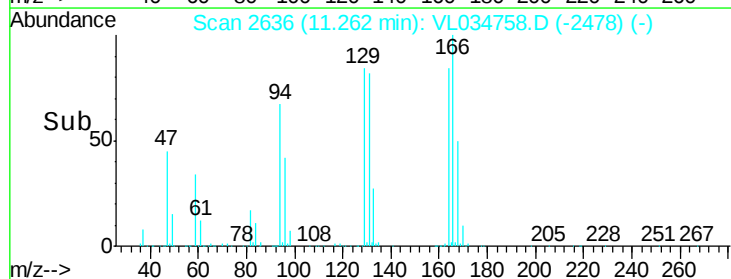
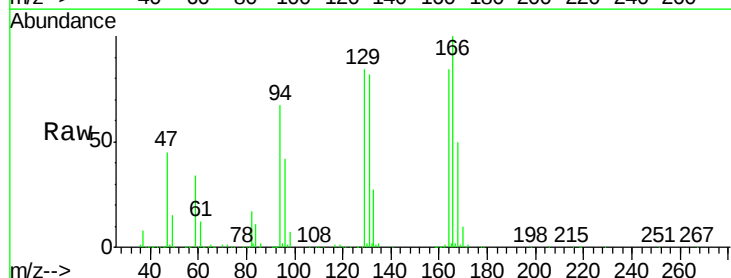
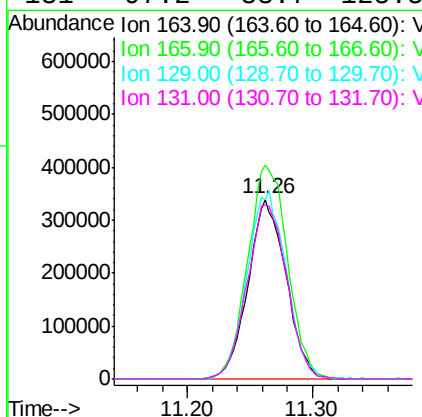
Manual Integrations
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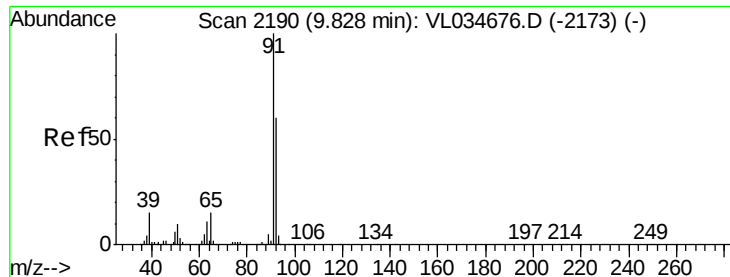
MMDadoda
3/4/2020 4:48:55 PM



#52
Tetrachloroethene
Concen: 9.282 ppbv
RT: 11.26 min Scan# 2636
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion: 164 Resp: 713747
Ion Ratio Lower Upper
164 100
166 119.2 99.2 148.8
129 100.0 88.0 132.0
131 97.2 83.7 125.5





#53

Toluene

Concen: 10.174 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Tot Ion: 91 Resp: 2269987

Ion Ratio Lower Upper

91 100

92 60.1 48.5 72.7

Instrument :

MSVOA_L

ClientSampleId :

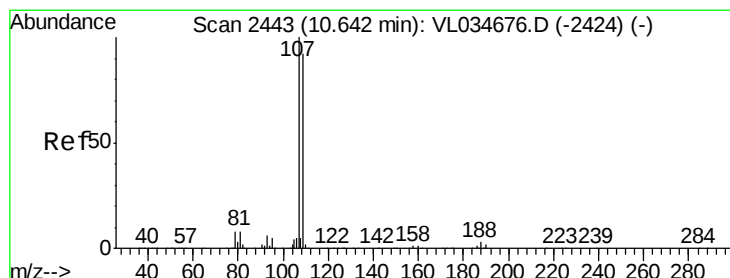
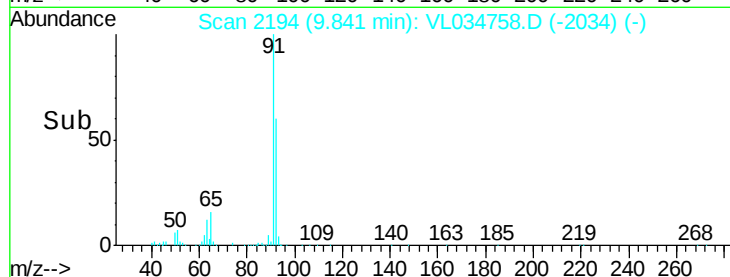
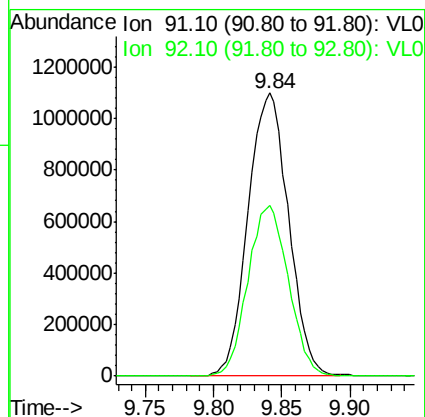
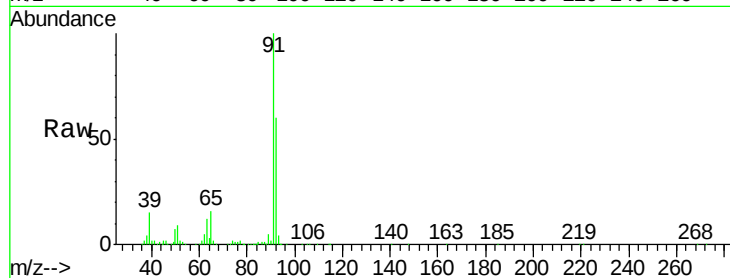
VSTDCCC010

Manual Integrations

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3/4/2020 4:48:55 PM



#54

1,2-Dibromoethane

Concen: 9.918 ppbv

RT: 10.65 min Scan# 2447

Delta R.T. 0.01 min

Lab File: VL034758.D

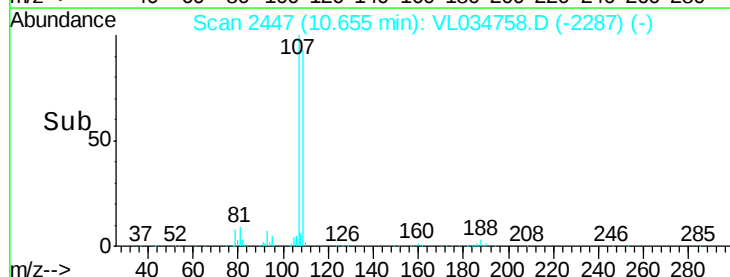
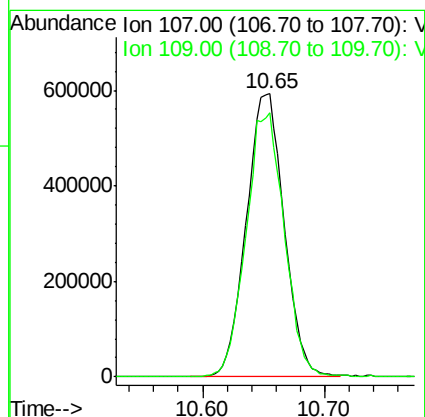
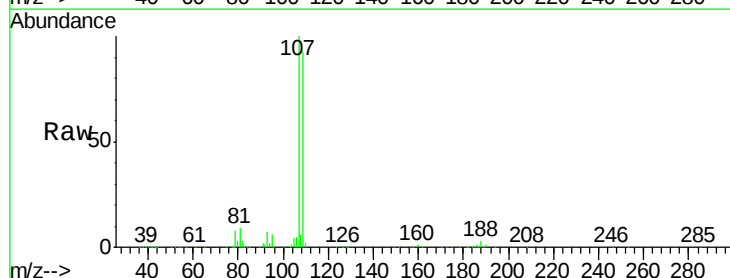
Acq: 3 Mar 2020 9:43

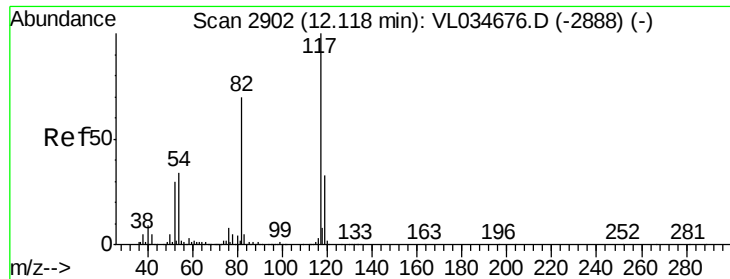
Tgt Ion: 107 Resp: 1266917

Ion Ratio Lower Upper

107 100

109 93.3 73.9 110.9





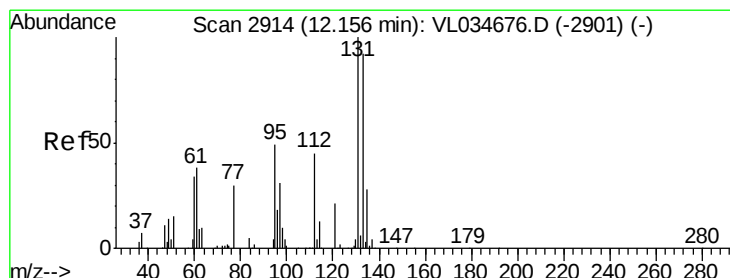
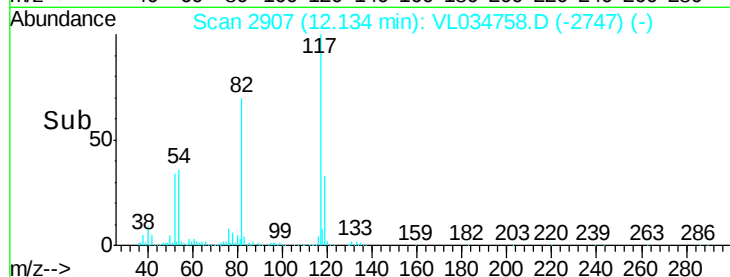
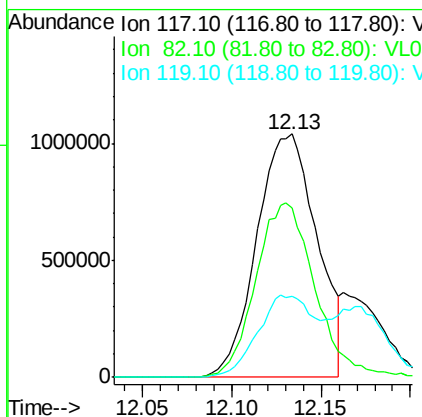
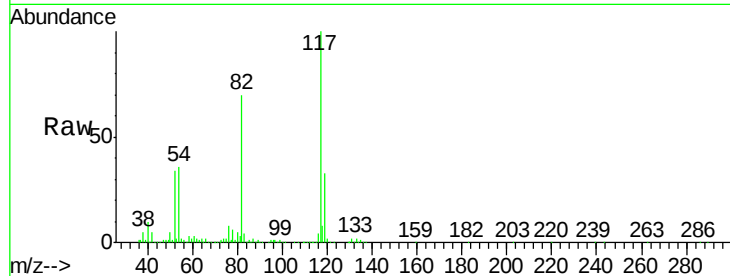
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. 0.02 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.4	54.1	81.1
119	33.2	27.6	41.4

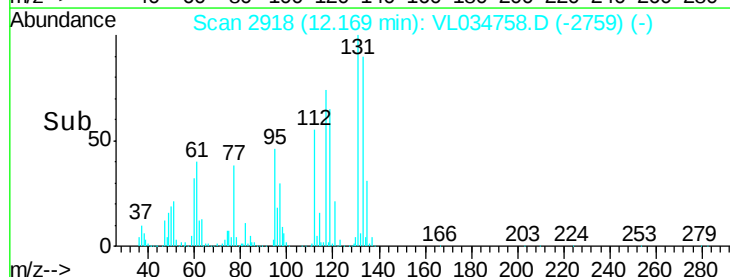
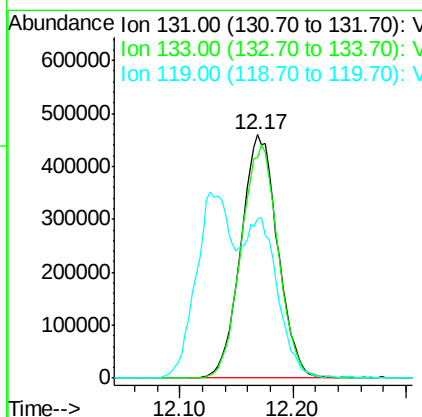
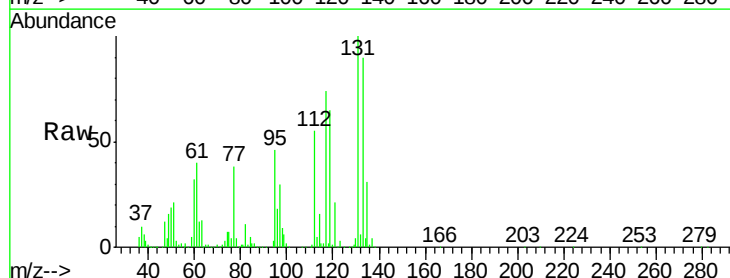
Manual Integrations
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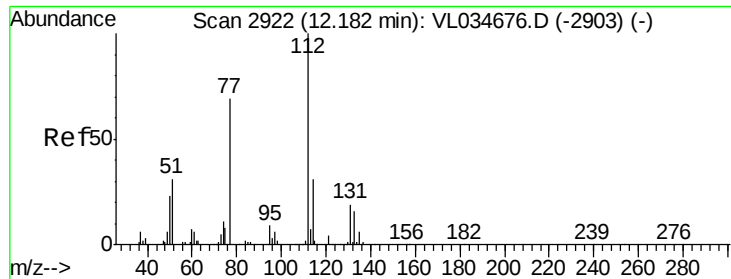
MMDadoda
3/4/2020 4:48:55 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.990 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.9	76.6	114.8
119	58.3	51.3	76.9





#57

Chlorobenzene

Concen: 9.475 ppbv

RT: 12.19 min Scan# 2925

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 1712936

Ion Ratio Lower Upper

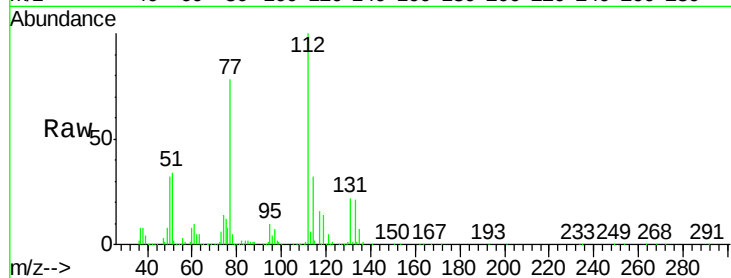
112 100

77 77.4 56.5 84.7

114 31.8 28.1 34.3

Manual Integrations
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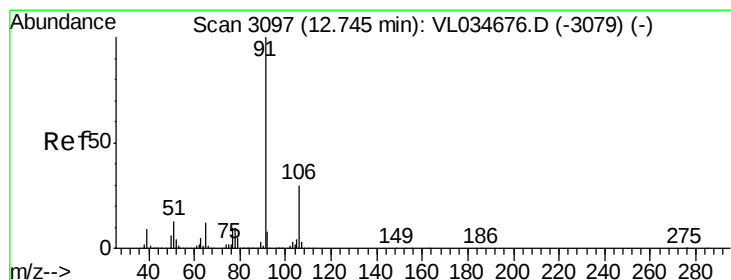
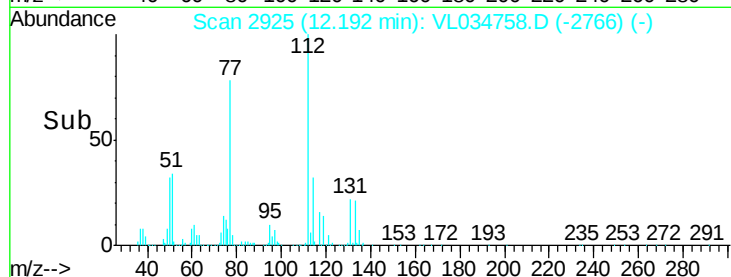
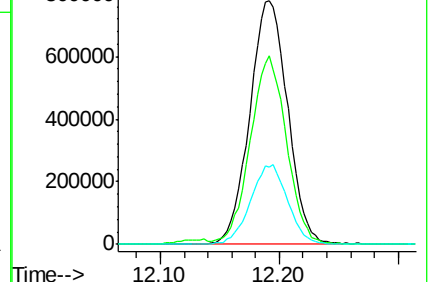
MMDadoda
3/4/2020 4:48:55 PM



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: 10.377 ppbv

RT: 12.75 min Scan# 3100

Delta R.T. 0.01 min

Lab File: VL034758.D

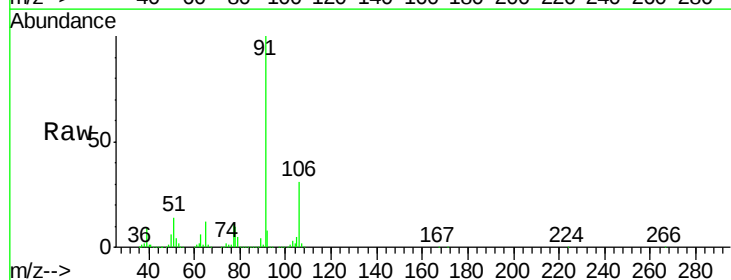
Acq: 3 Mar 2020 9:43

Tgt Ion: 91 Resp: 3070979

Ion Ratio Lower Upper

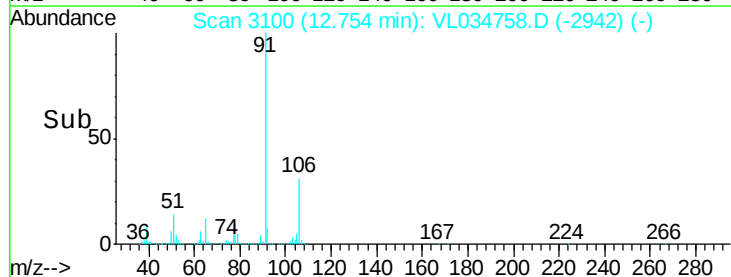
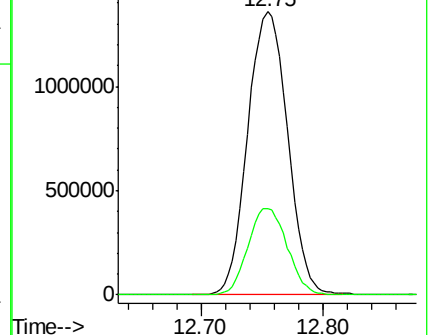
91 100

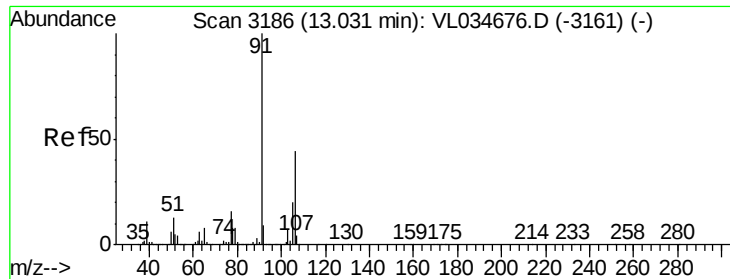
106 30.5 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





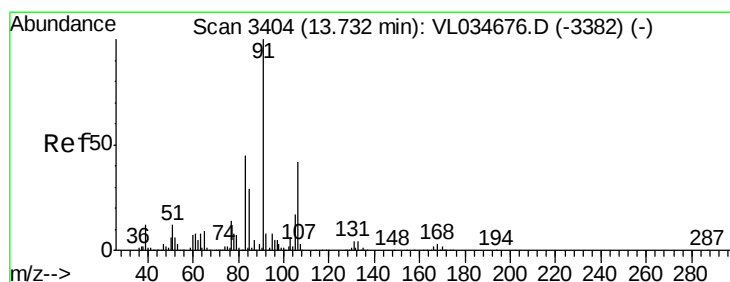
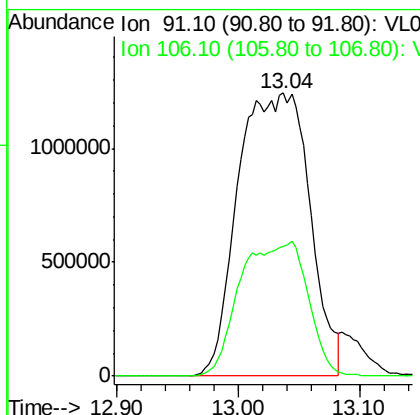
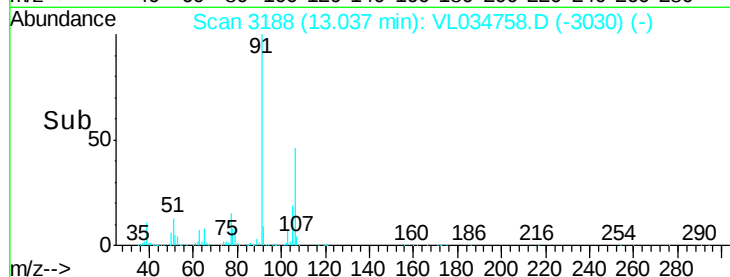
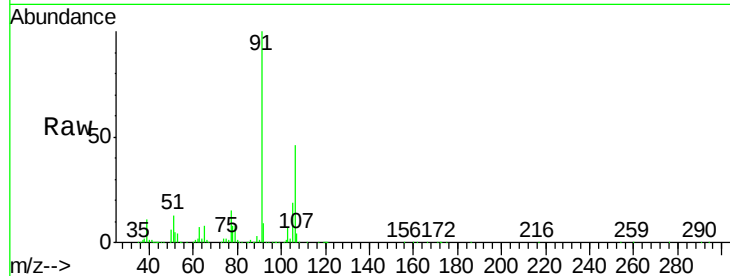
#59
m/p-Xylene
Concen: 19.681 ppbv m
RT: 13.04 min Scan# 3188
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5079843
Ion Ratio Lower Upper
91 100
106 44.9 35.6 53.4

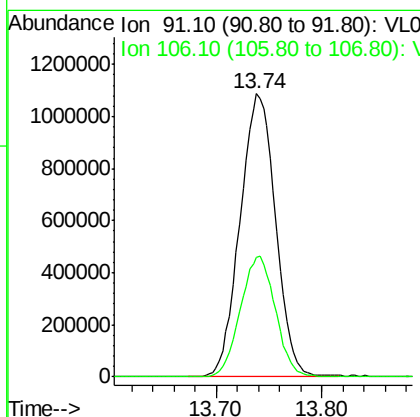
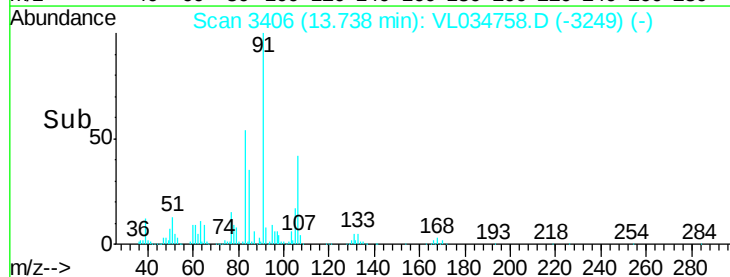
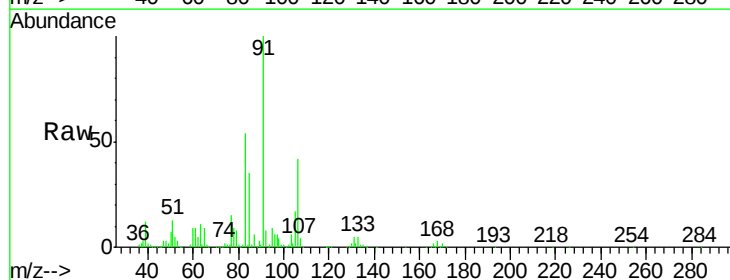
Manual Integrations
APPROVED

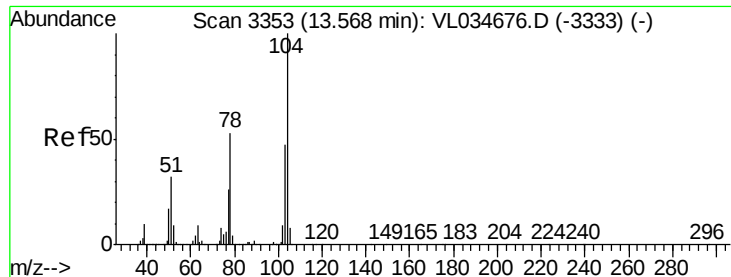
MMDadoda
3/4/2020 4:48:55 PM



#60
o-Xylene
Concen: 9.947 ppbv
RT: 13.74 min Scan# 3406
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion: 91 Resp: 2547630
Ion Ratio Lower Upper
91 100
106 42.2 21.9 65.5





#61

Stvrene

Concen: 10.896 ppbv

RT: 13.58 min Scan# 3356

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:104 Resp: 1792714

Ion Ratio Lower Upper

104 100

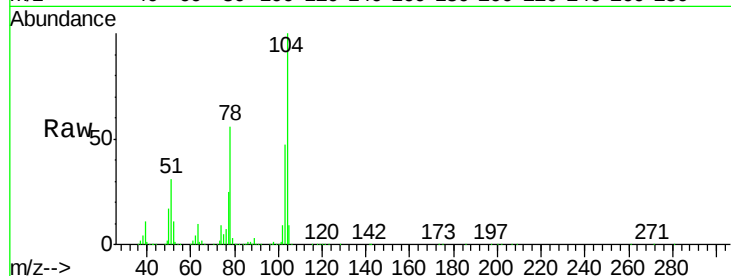
78 56.7 44.2 66.4

103 47.7 37.4 56.0

Manual Integrations
APPROVED

MMDadoda

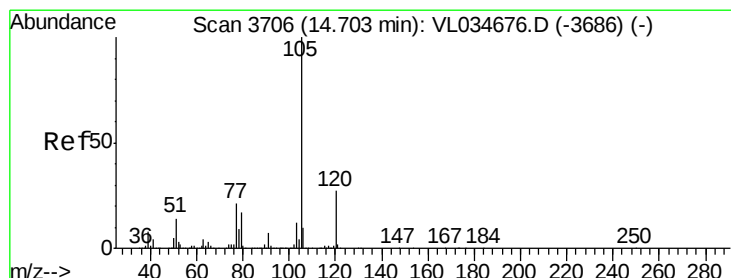
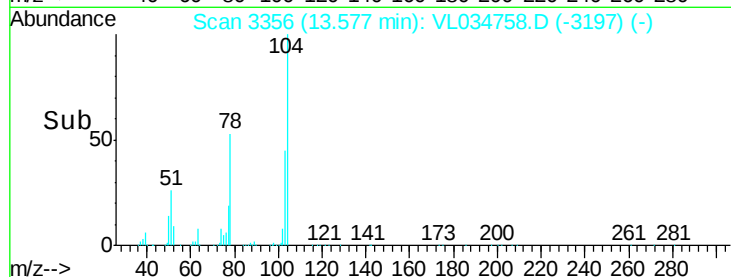
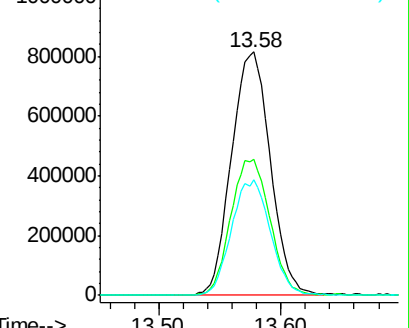
3/4/2020 4:48:55 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.851 ppbv

RT: 14.72 min Scan# 3710

Delta R.T. 0.01 min

Lab File: VL034758.D

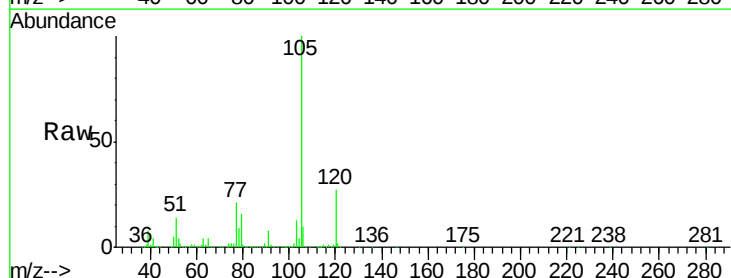
Acq: 3 Mar 2020 9:43

Tgt Ion:105 Resp: 3680573

Ion Ratio Lower Upper

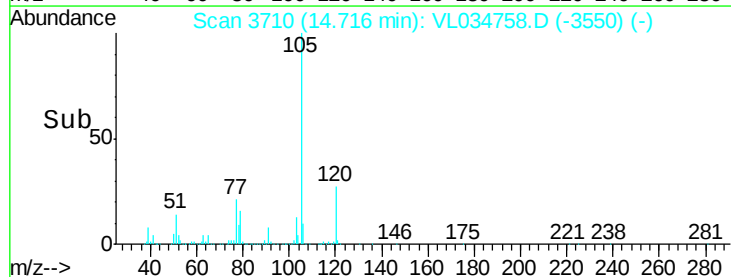
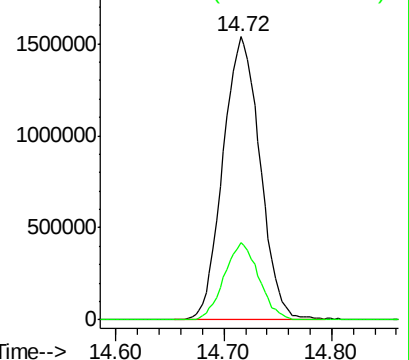
105 100

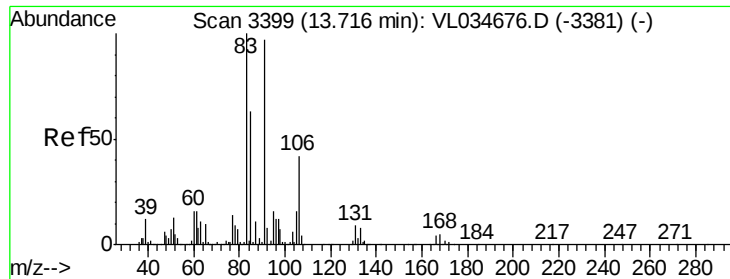
120 25.7 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





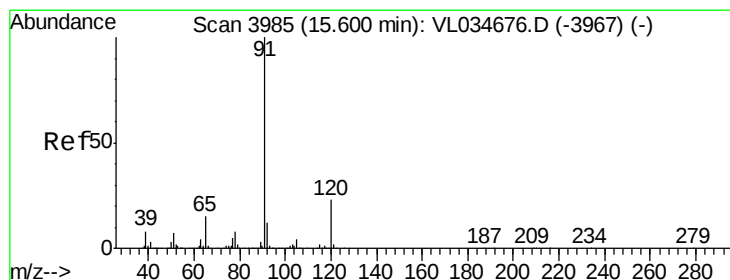
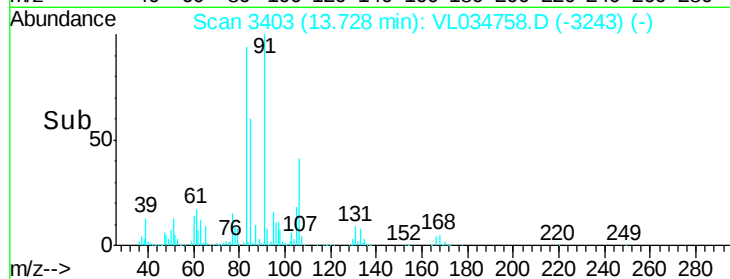
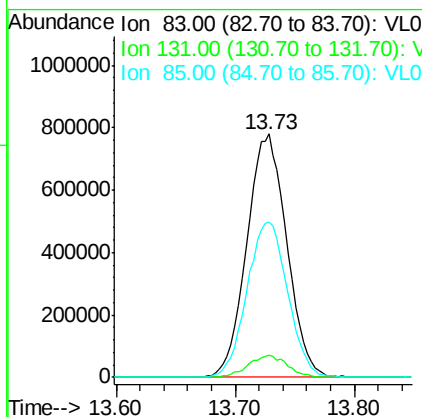
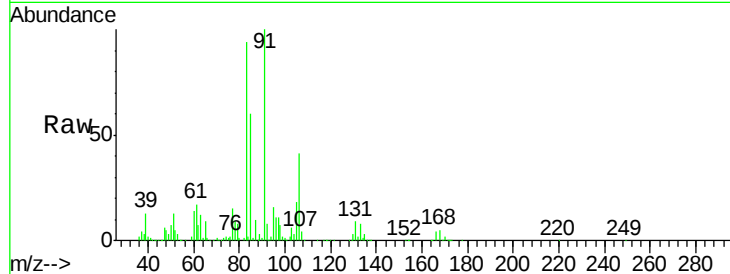
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.068 ppbv
 RT: 13.73 min Scan# 3403
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 1810106
 Ion Ratio Lower Upper
 83 100
 131 9.0 4.4 13.2
 85 65.1 32.5 97.5

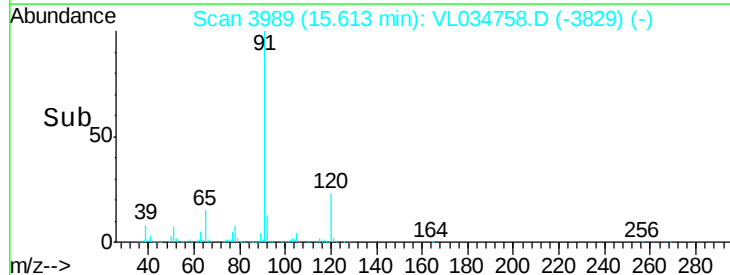
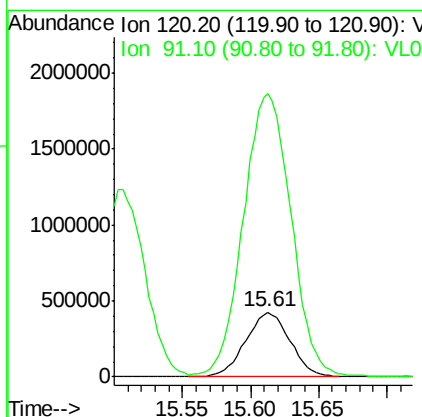
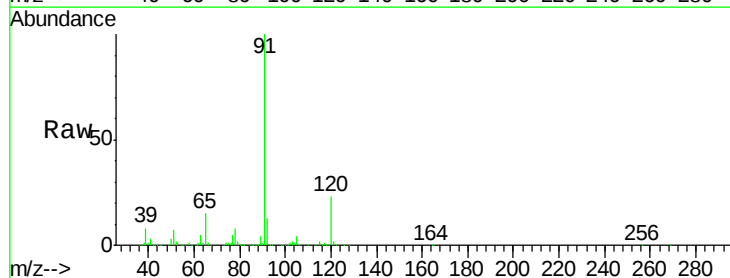
Manual Integrations
 APPROVED

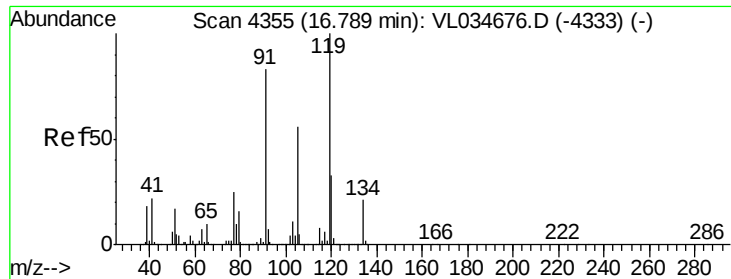
MMDadoda
 3/4/2020 4:48:55 PM



#64
 n-propylbenzene
 Concen: 9.985 ppbv
 RT: 15.61 min Scan# 3989
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion: 120 Resp: 961802
 Ion Ratio Lower Upper
 120 100
 91 472.8 369.8 554.8





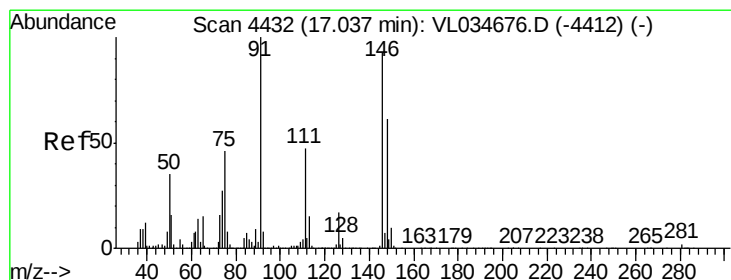
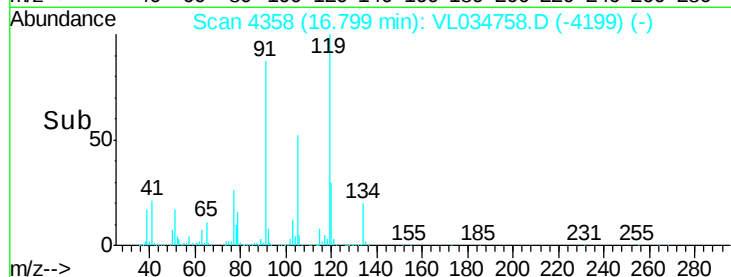
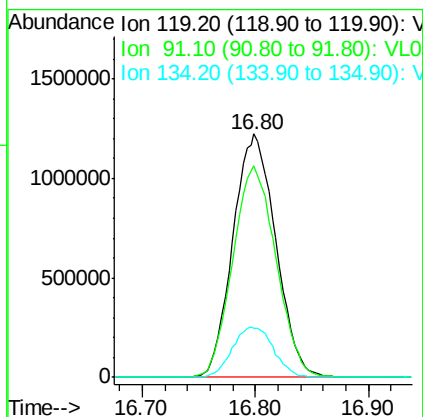
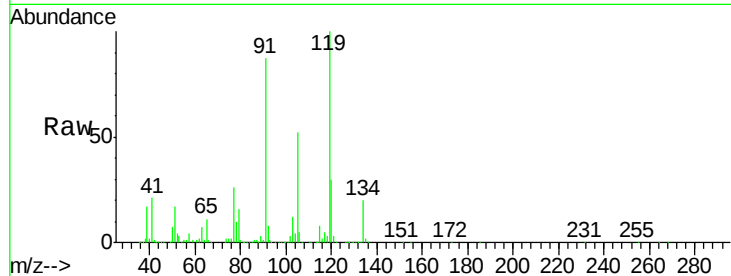
#65
tert-Butylbenzene
Concen: 9.944 ppbv
RT: 16.80 min Scan# 4358
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	88.3	69.1	103.7
134	20.0	15.8	23.8

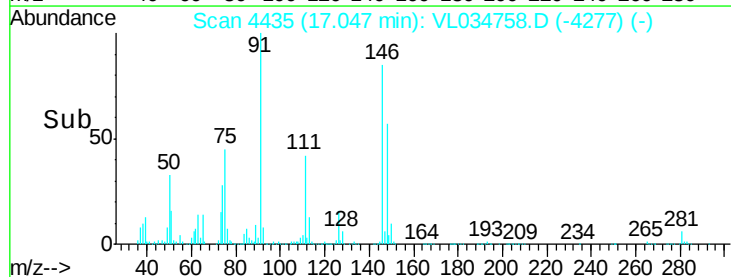
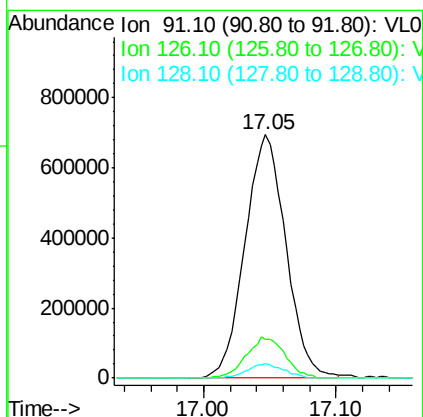
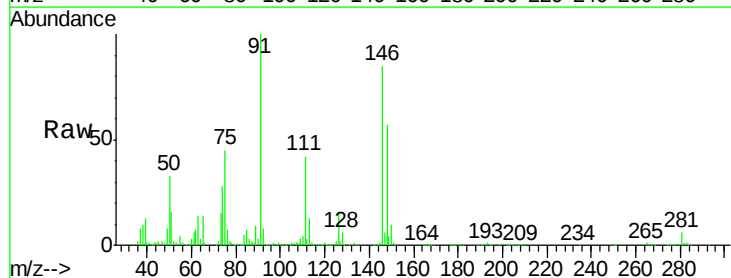
Manual Integrations
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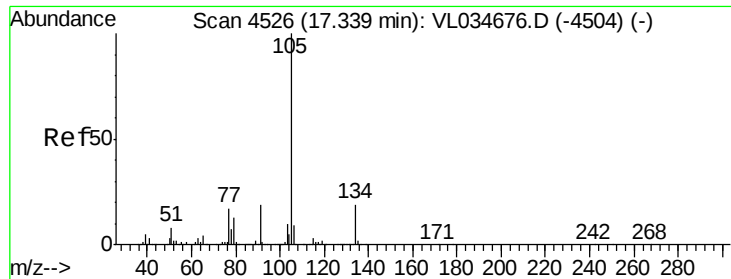
MMDadoda
3/4/2020 4:48:55 PM



#66
Benzyl Chloride
Concen: 12.352 ppbv
RT: 17.05 min Scan# 4435
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.2	13.5	20.3
128	5.5	4.2	6.4





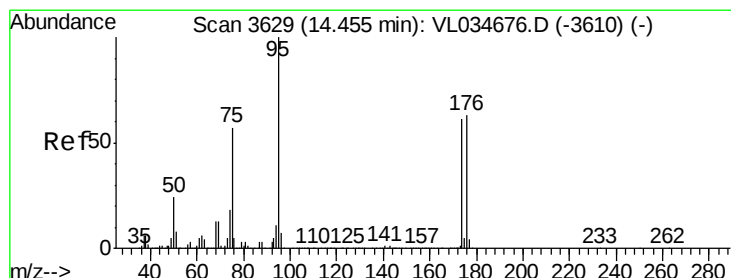
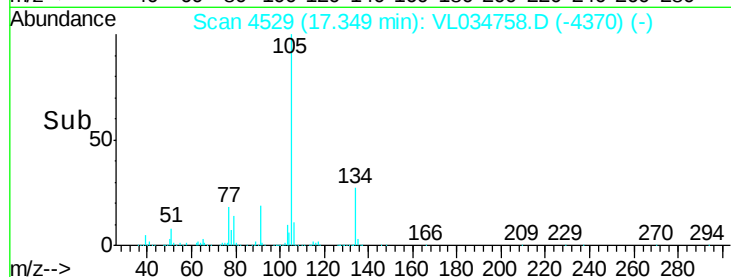
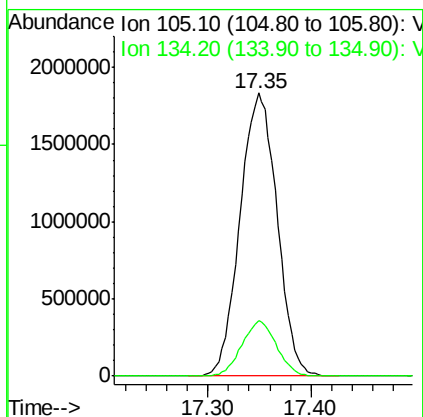
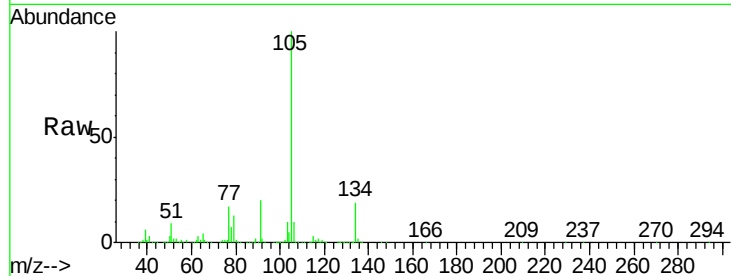
#67
 sec-Butylbenzene
 Concen: 9.852 ppbv
 RT: 17.35 min Scan# 4529
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 105 Resp: 4573650
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.8 22.2

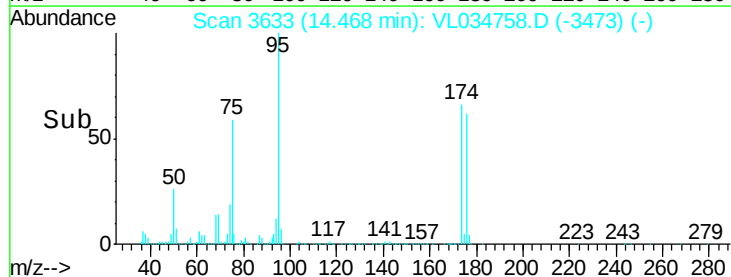
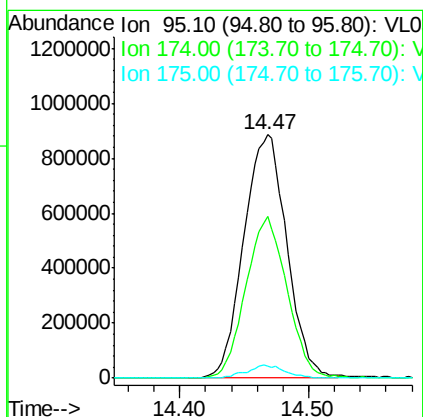
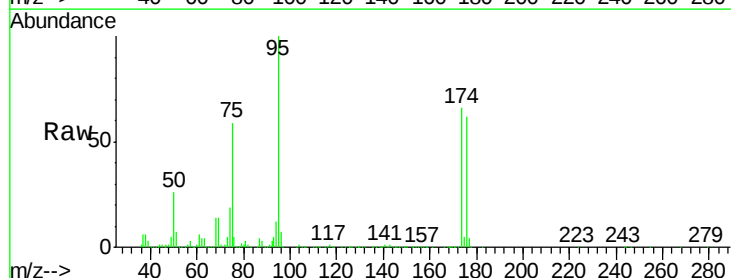
Manual Integrations
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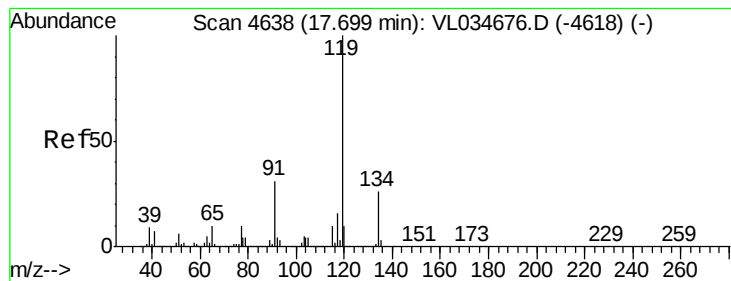
MMDadoda
 3/4/2020 4:48:55 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.264 ppbv
 RT: 14.47 min Scan# 3633
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion: 95 Resp: 2058656
 Ion Ratio Lower Upper
 95 100
 174 64.0 50.7 76.1
 175 4.8 3.9 5.9





#69

p-Isopropyltoluene

Concen: 10.017 ppbv

RT: 17.71 min Scan# 4641

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 119 Resp: 3828157

Ion Ratio Lower Upper

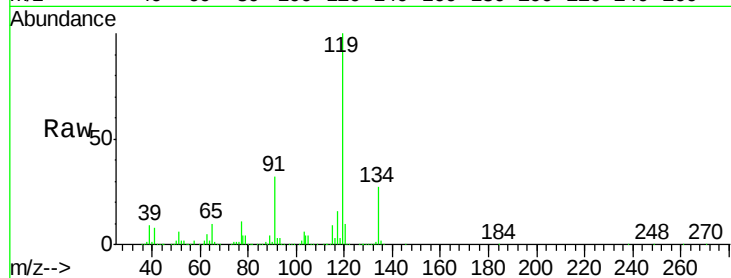
119 100

134 25.6 20.6 31.0

91 32.0 25.3 37.9

Manual Integrations
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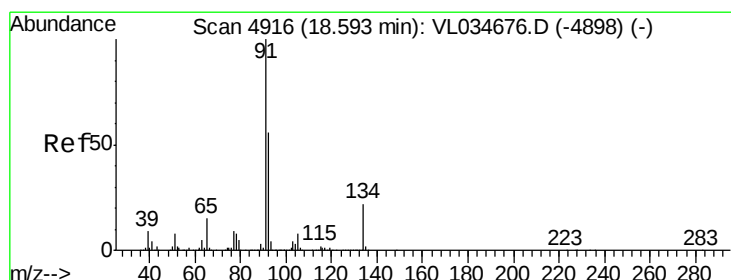
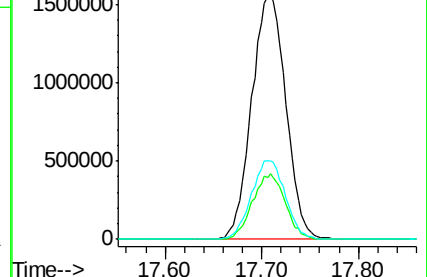
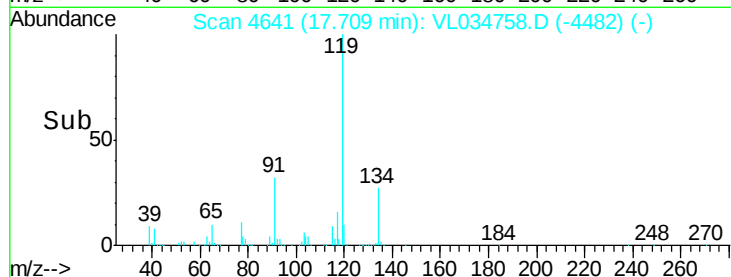
MMDadoda
3/4/2020 4:48:55 PM



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.831 ppbv

RT: 18.61 min Scan# 4921

Delta R.T. 0.02 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

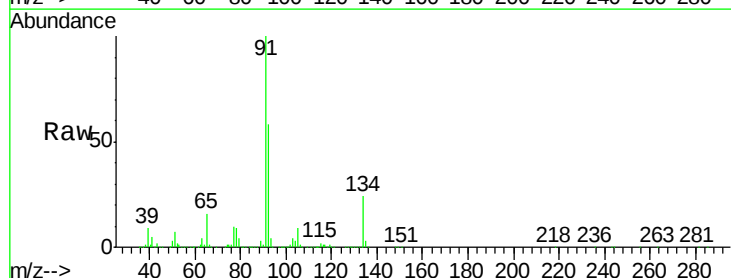
Tgt Ion: 91 Resp: 4091223

Ion Ratio Lower Upper

91 100

92 55.2 43.8 65.6

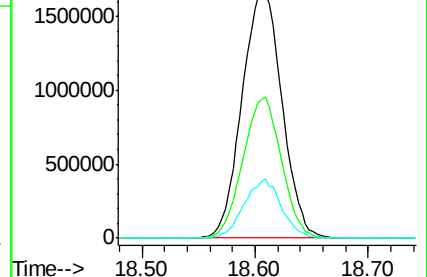
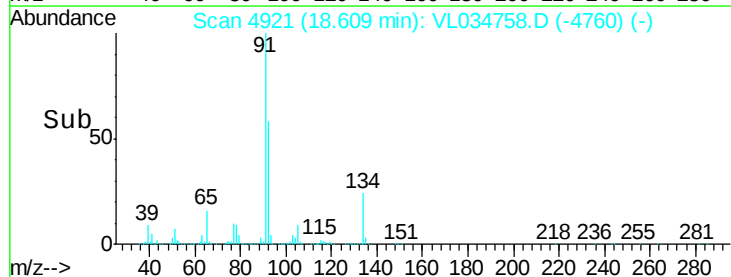
134 22.2 17.6 26.4

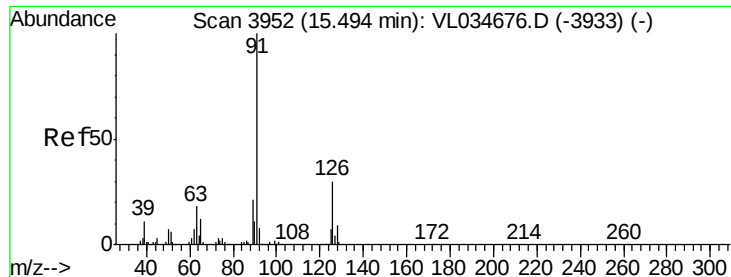


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.955 ppbv

RT: 15.50 min Scan# 3955

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2880829

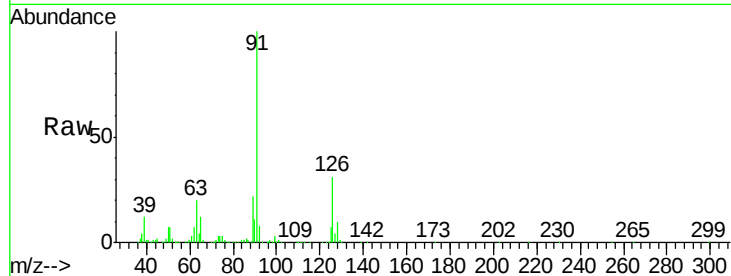
Ion Ratio Lower Upper

91 100

126 29.4 11.8 47.2

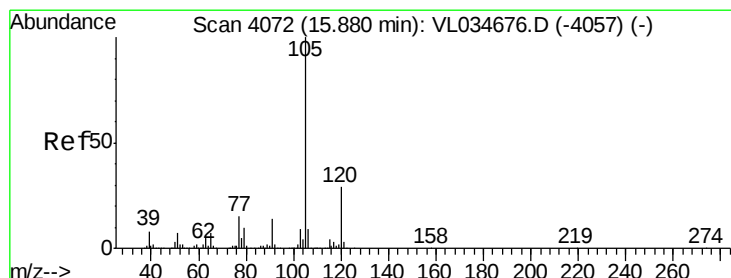
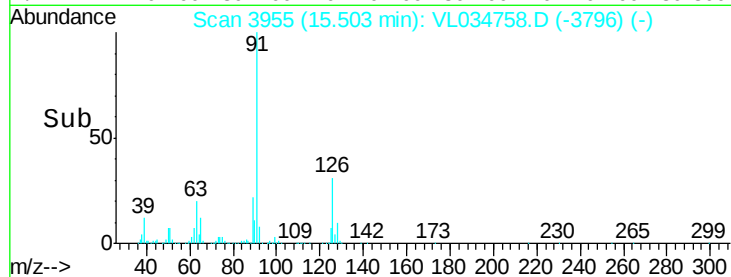
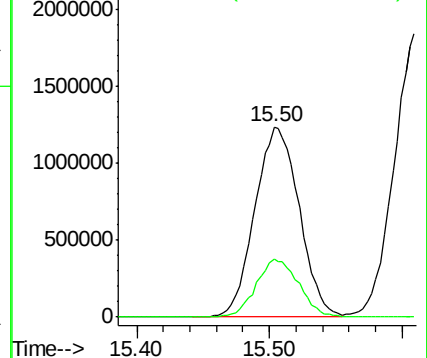
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.395 ppbv

RT: 15.89 min Scan# 4076

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Tgt Ion: 105 Resp: 2963471

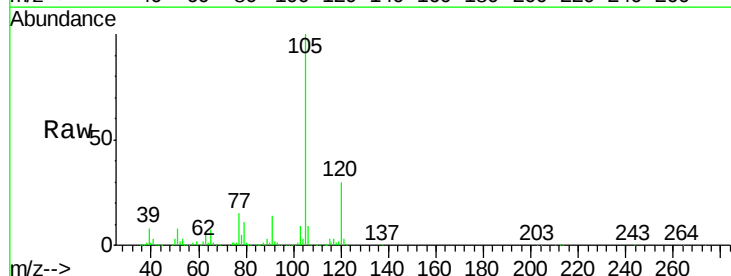
Ion Ratio Lower Upper

105 100

120 28.6 23.7 35.5

91 14.1 10.9 16.3

77 15.3 12.2 18.2

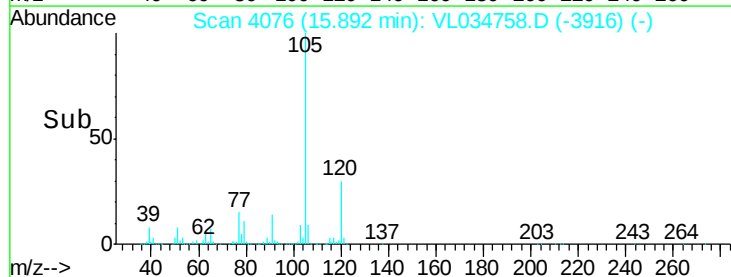
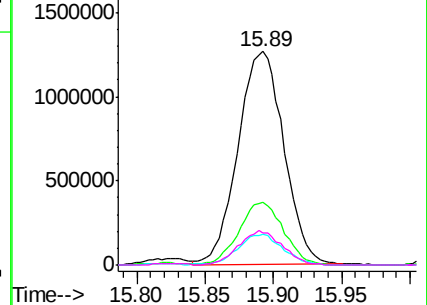


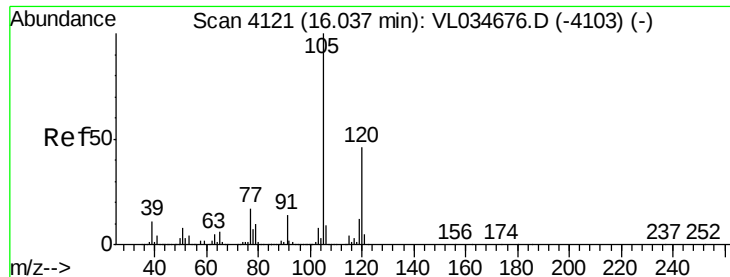
Abundance Ion 105.10 (104.80 to 105.80): V

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: 10.166 ppbv

RT: 16.05 min Scan# 4125

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:105 Resp: 2788064

Ion Ratio Lower Upper

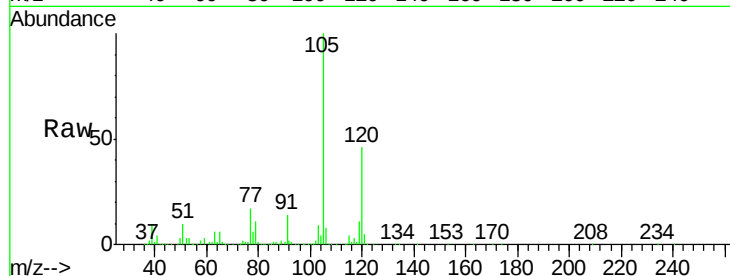
105 100

120 45.6 37.1 55.7

Manual Integrations
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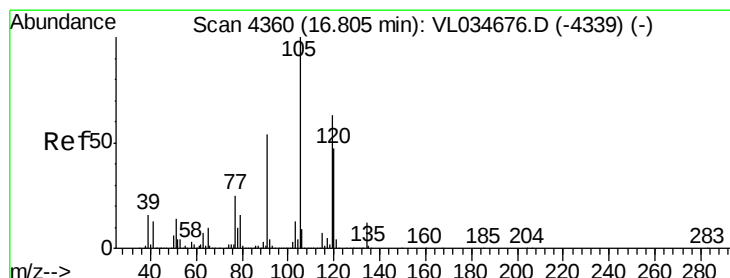
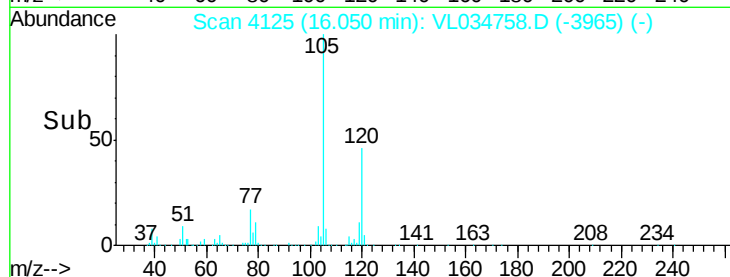
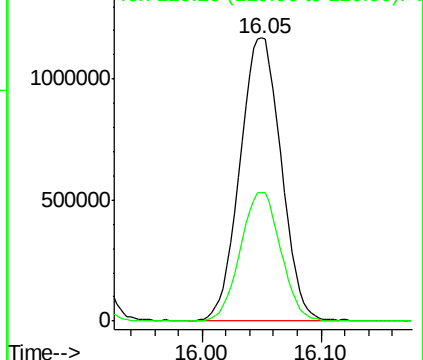
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.613 ppbv

RT: 16.82 min Scan# 4364

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Tgt Ion:105 Resp: 2911562

Ion Ratio Lower Upper

105 100

120 46.3 37.9 56.9

91 48.2 43.9 65.9

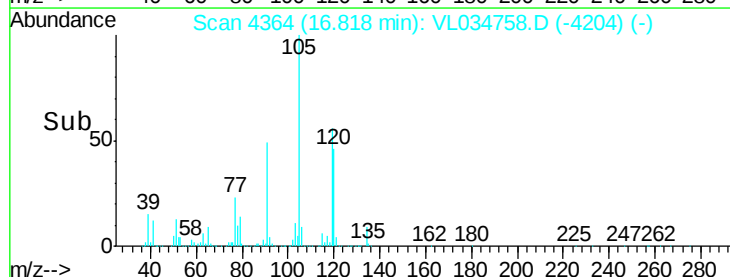
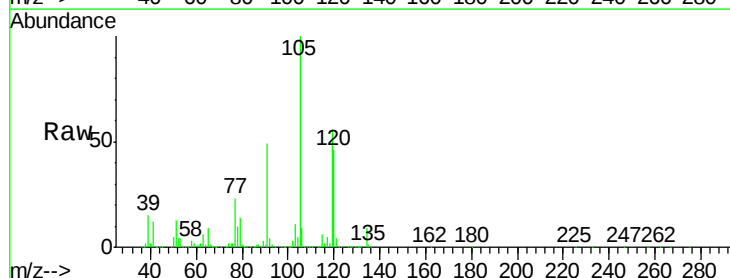
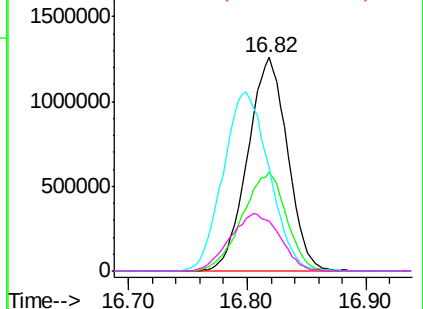
77 23.1 20.3 30.5

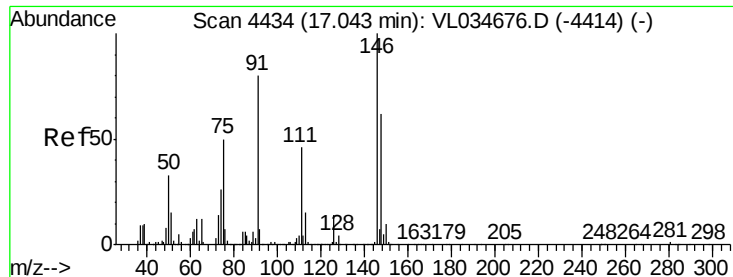
Abundance Ion 105.10 (104.80 to 105.80): V

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





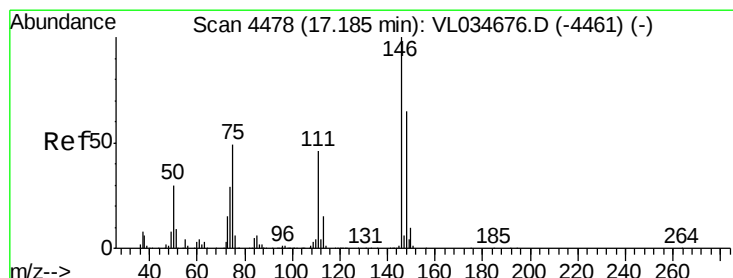
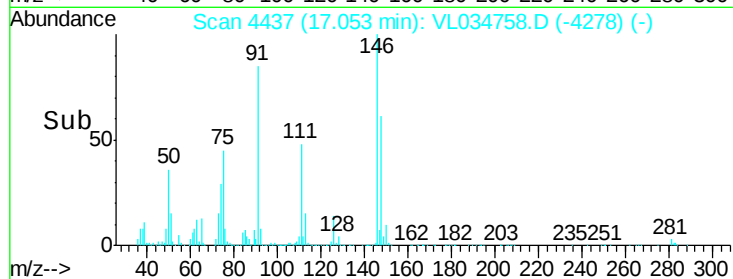
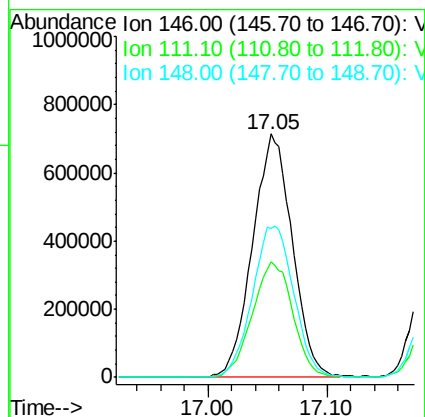
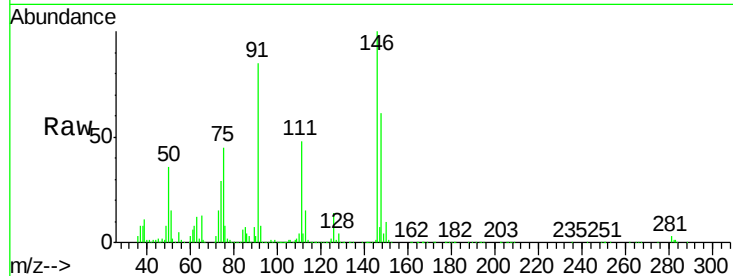
#75
 1,3-Dichlorobenzene
 Concen: 9.430 ppbv
 RT: 17.05 min Scan# 4437
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.6	24.4	73.2
148	64.8	32.5	97.4

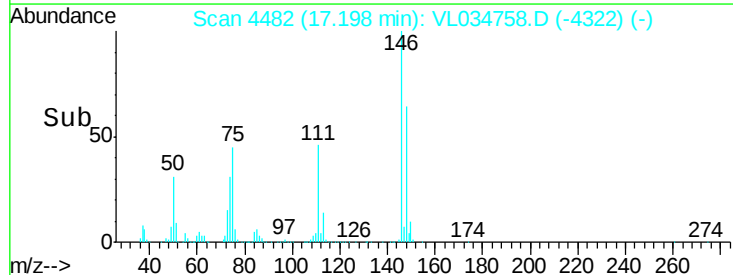
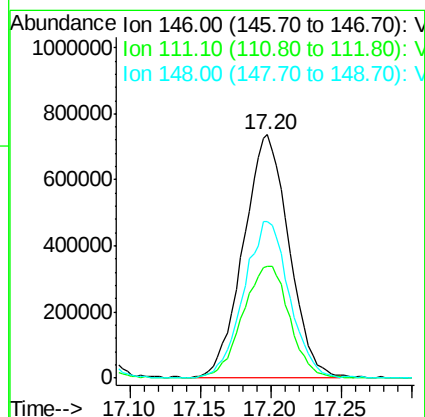
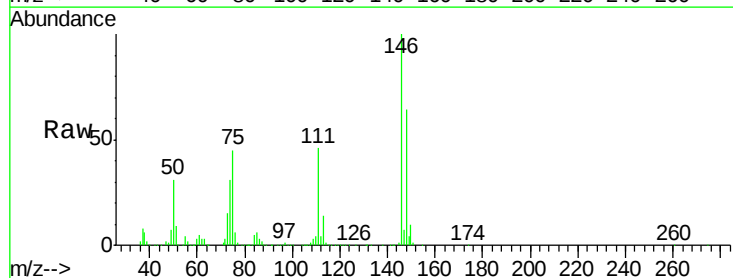
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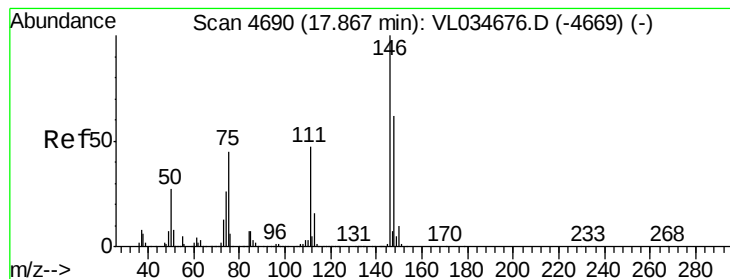
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#76
 1,4-Dichlorobenzene
 Concen: 9.427 ppbv
 RT: 17.20 min Scan# 4482
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	23.4	70.0
148	65.2	31.9	95.5





#77

1,2-Dichlorobenzene

Concen: 9.536 ppbv m

RT: 17.87 min Scan# 4692

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1611724

Ion Ratio Lower Upper

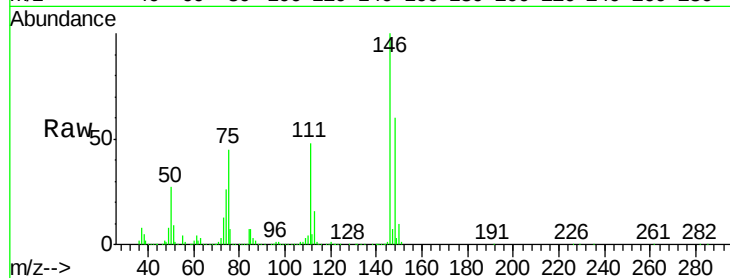
146 100

111 49.9 24.9 74.7

148 64.7 32.0 96.0

Manual Integrations
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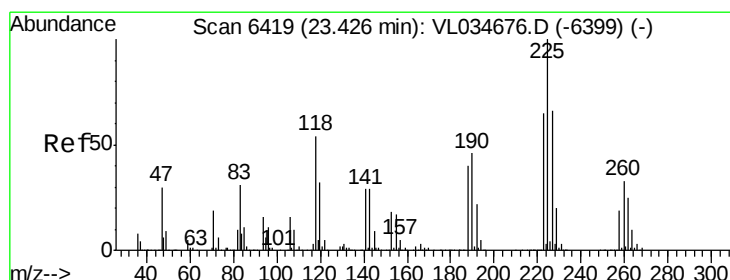
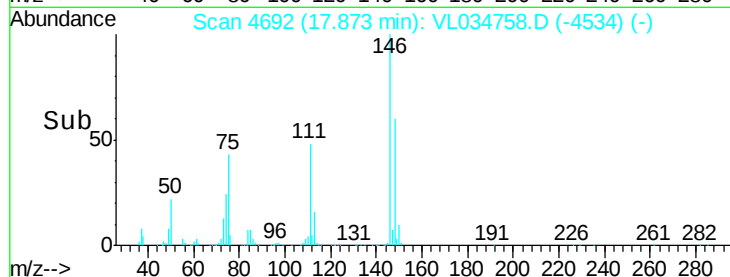
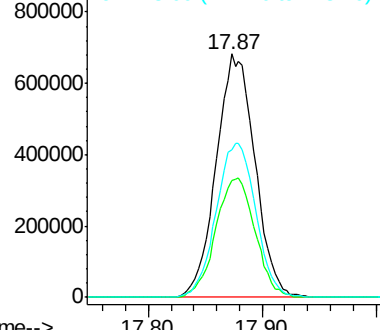
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.308 ppbv

RT: 23.44 min Scan# 6422

Delta R.T. 0.01 min

Lab File: VL034758.D

Acq: 3 Mar 2020 9:43

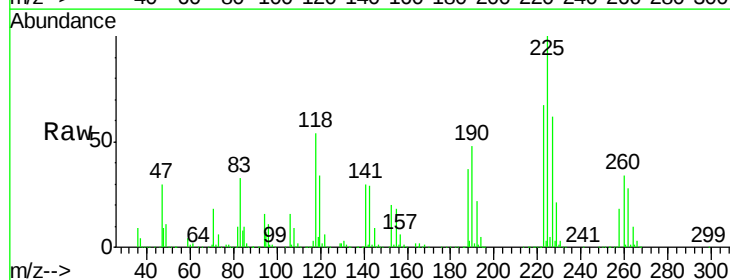
Tgt Ion:225 Resp: 1369781

Ion Ratio Lower Upper

225 100

223 62.8 51.3 76.9

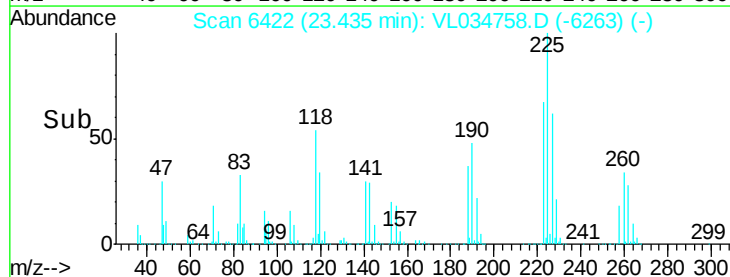
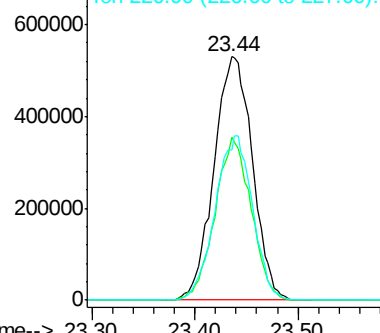
227 65.7 51.3 76.9

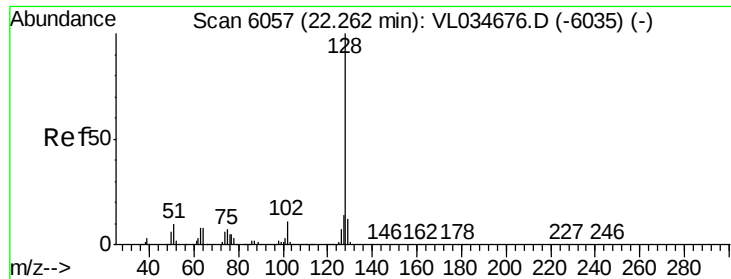


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





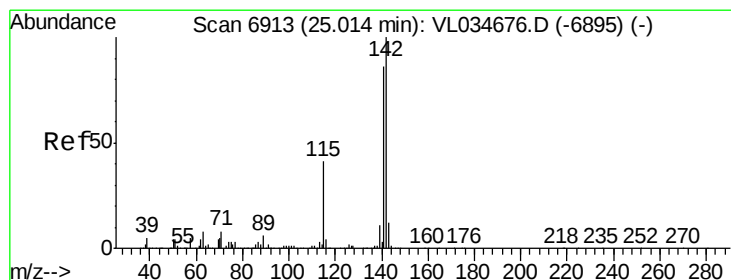
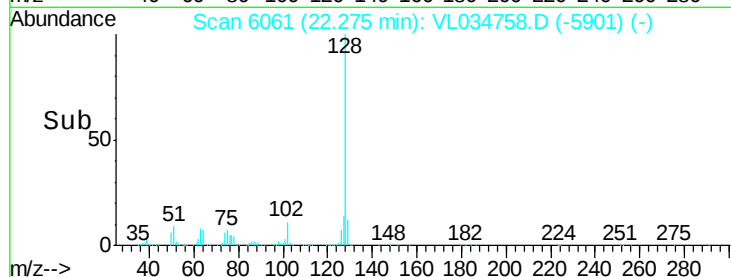
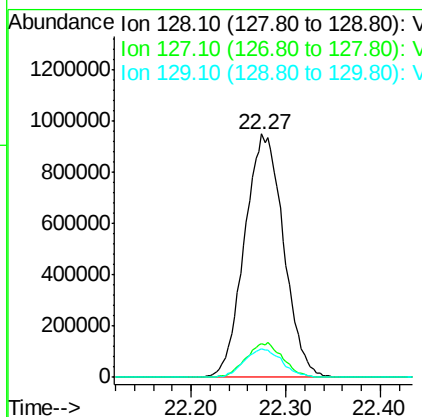
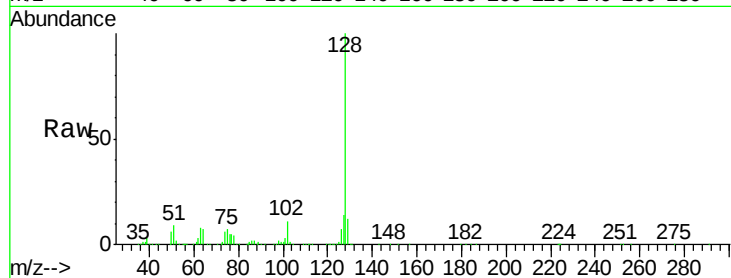
#79
Naphthalene
Concen: 10.196 ppbv
RT: 22.27 min Scan# 6061
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:128 Resp: 2717668
Ion Ratio Lower Upper
128 100
127 13.7 11.0 16.6
129 11.5 9.4 14.2

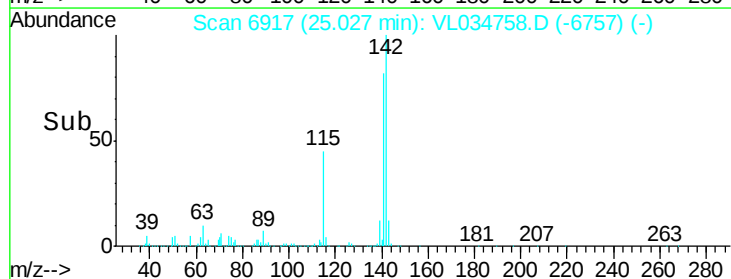
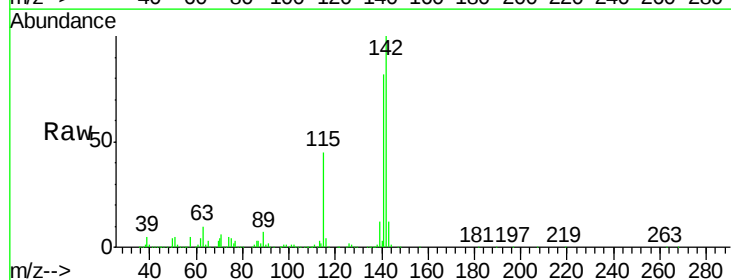
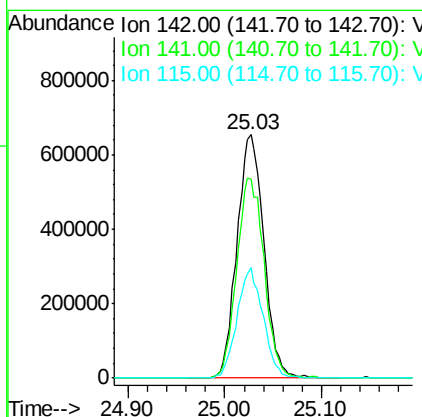
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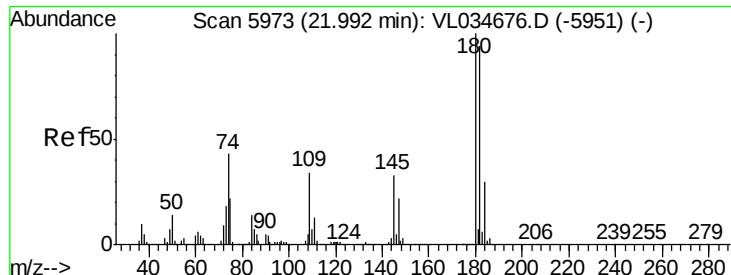
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#80
Naphthalene, 2-methyl-
Concen: 15.381 ppbv
RT: 25.03 min Scan# 6917
Delta R.T. 0.01 min
Lab File: VL034758.D
Acq: 3 Mar 2020 9:43

Tgt Ion:142 Resp: 1264530
Ion Ratio Lower Upper
142 100
141 84.1 66.5 99.7
115 43.9 30.6 46.0





#81
 1,2,4-Trichlorobenzene
 Concen: 9.864 ppbv m
 RT: 22.00 min Scan# 5977
 Delta R.T. 0.01 min
 Lab File: VL034758.D
 Acq: 3 Mar 2020 9:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.5	114.7
184	30.6	25.2	37.8

Manual Integrations
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