

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034138.D
 Acq On : 10 Sep 2019 9:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:16:45 AM

Quant Time: Sep 11 01:58:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	992665	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1890507	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2061701m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1629176	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1567471	9.573	ppbv 98
3) Chlorodifluoromethane	2.97	51	1067882	9.651	ppbv 99
4) Chloromethane	3.13	50	665270	9.617	ppbv 94
5) Vinyl Chloride	3.25	62	586583	9.309	ppbv 97
6) Bromomethane	3.47	94	290814	9.351	ppbv 100
7) Chloroethane	3.56	64	212008	9.875	ppbv 95
8) Dichlorotetrafluoroethane	3.18	85	1212019	9.197	ppbv 100
9) Propene	3.00	41	585190	9.452	ppbv 99
10) Heptane	8.18	43	1513641	9.421	ppbv 100
11) Trichlorofluoromethane	3.95	101	1251800	9.375	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	831297	9.306	ppbv 98
13) Ethanol	3.60	45	86040	7.094	ppbv 98
14) Bromoethene	3.74	108	375345	9.705	ppbv 99
15) Acetone	3.85	43	1102780	9.218	ppbv 99
16) 1,3-Butadiene	3.32	39	581557	9.599	ppbv 99
17) tert-Butyl alcohol	4.30	59	744050	8.567	ppbv 100
18) 1,1-Dichloroethene	4.30	96	397942	9.750	ppbv 97
19) Isopropyl Alcohol	3.98	45	609914	7.553	ppbv 100
20) Methylene Chloride	4.36	84	350628	8.864	ppbv 94
21) Allyl Chloride	4.43	41	784620	9.948	ppbv 97
22) trans-1,2-Dichloroethene	4.91	96	394539	9.658	ppbv 98
23) Vinyl Acetate	5.10	43	1979678	9.753	ppbv 99
24) 1,1-Dichloroethane	5.03	63	1260104	9.354	ppbv 100
25) Ethyl Acetate	5.71	43	2364914	9.005	ppbv 99
26) Hexane	5.72	57	1022573	8.758	ppbv 98
27) Carbon Disulfide	4.56	76	1058448	10.045	ppbv 98
28) Methyl tert-Butyl Ether	5.06	73	1617986	9.458	ppbv 99
29) Chloroform	5.79	83	1452616	9.224	ppbv 98
30) Cyclohexane	7.18	84	803444	9.518	ppbv 97
31) cis-1,2-Dichloroethene	5.58	61	1085465	9.708	ppbv 98
32) 1,1,1-Trichloroethane	6.56	97	1375560	9.245	ppbv 98
34) 2-Butanone	5.27	43	1680689	9.247	ppbv 99
35) Carbon Tetrachloride	7.07	117	1342308	9.107	ppbv 98
36) Benzene	6.94	78	1984123	9.182	ppbv 99
37) 1,2-Dichloroethane	6.35	62	1237950	9.339	ppbv 99
38) Trichloroethene	7.90	130	640051	7.938	ppbv 94
39) 1,2-Dichloropropane	7.67	63	852207	9.215	ppbv 99
40) 1,4-Dioxane	7.88	88	239598	7.050	ppbv # 96
41) Tetrahydrofuran	6.09	42	1030429	9.457	ppbv 100
42) Bromodichloromethane	7.85	83	1623867	9.399	ppbv 98
43) Methyl Methacrylate	8.08	69	853455	9.587	ppbv 97

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Instrument :
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 ClientSampleId :
 VSTDCCC010

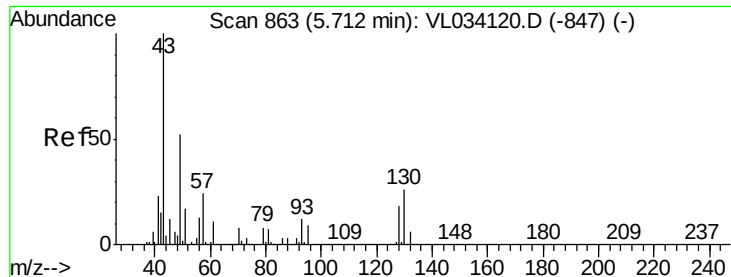
Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:16:45 AM

Quant Time: Sep 11 01:58:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3477475	8.729	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1126371	10.765	ppbv	100
46) cis-1,3-Dichloropropene	8.77	75	1275810	10.023	ppbv	99
47) 1,1,2-Trichloroethane	9.55	97	776241	9.213	ppbv	97
48) Dibromochloromethane	10.38	129	1245790	9.910	ppbv	98
49) Bromoform	13.13	173	1072315	9.729	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2479773	8.941	ppbv	98
51) 2-Hexanone	10.20	43	2153950	8.990	ppbv #	99
52) Tetrachloroethene	11.30	164	618290	8.114	ppbv	98
53) Toluene	9.88	91	2198903	9.201	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1161605	9.255	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.21	131	796981	9.013	ppbv #	58
57) Chlorobenzene	12.23	112	1521723	8.580	ppbv	96
58) Ethyl Benzene	12.79	91	2963817	8.767	ppbv	98
59) m/p-Xylene	13.08	91	4725089m	17.133	ppbv	
60) o-Xylene	13.78	91	2319149	8.443	ppbv	99
61) Styrene	13.61	104	1842417	8.967	ppbv	100
62) Isopropylbenzene	14.75	105	3036621	8.496	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1695235	7.573	ppbv	98
64) n-propylbenzene	15.65	120	788330	8.805	ppbv	94
65) tert-Butylbenzene	16.84	119	2523929	8.183	ppbv	99
66) Benzyl Chloride	17.08	91	1293205	11.372	ppbv	98
67) sec-Butylbenzene	17.39	105	3669961	8.274	ppbv	99
69) p-Isopropyltoluene	17.74	119	2977846	8.391	ppbv	99
70) n-Butylbenzene	18.64	91	3358405	8.317	ppbv	98
71) 2-Chlorotoluene	15.54	91	2506527	8.585	ppbv	100
72) 4-Ethyltoluene	15.93	105	2711654	8.750	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2565392	8.517	ppbv	99
74) 1,2,4-Trimethylbenzene	16.86	105	2524322	8.139	ppbv	99
75) 1,3-Dichlorobenzene	17.09	146	1337356	8.138	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	1448246	8.408	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1394571	8.289	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1105380m	9.630	ppbv	
79) Naphthalene	22.32	128	2457280	8.764	ppbv	99
80) Naphthalene, 2-methyl-	25.05	142	1483548	15.242	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1286214m	8.430	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

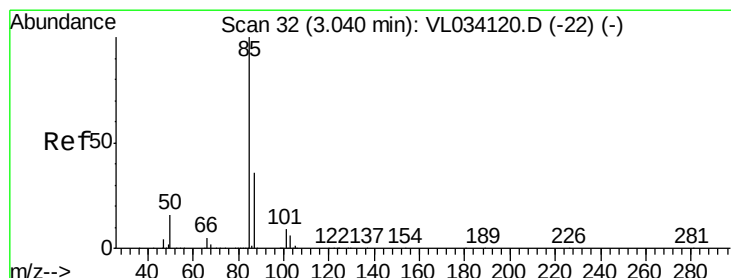
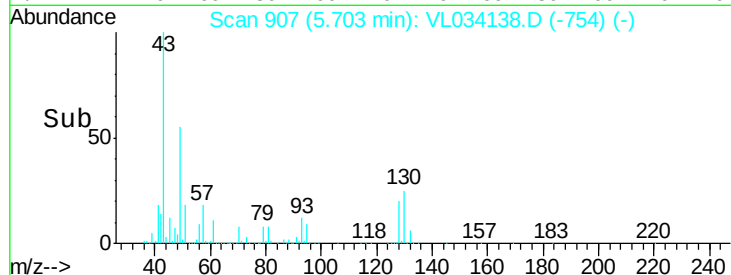
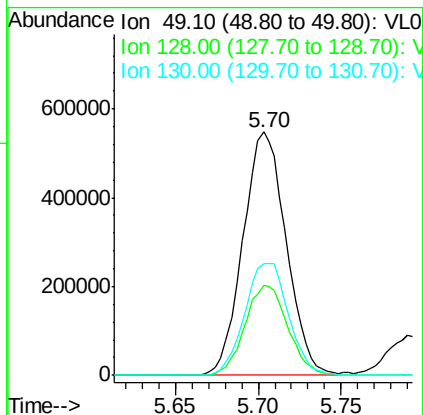
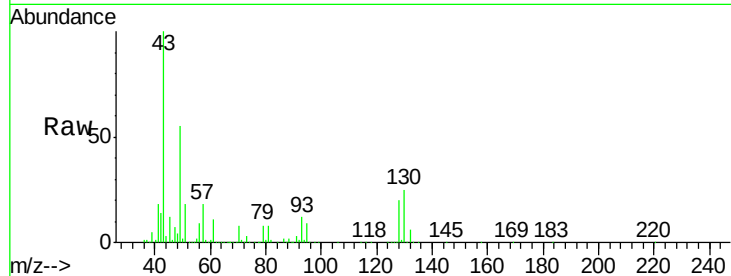
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
49	100		
128	36.7	18.4	55.0
130	47.1	23.5	70.6

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 9.573 ppbv

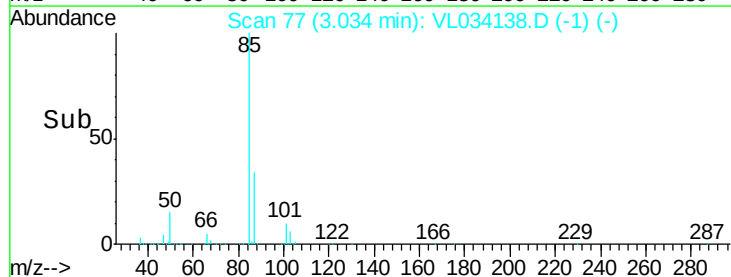
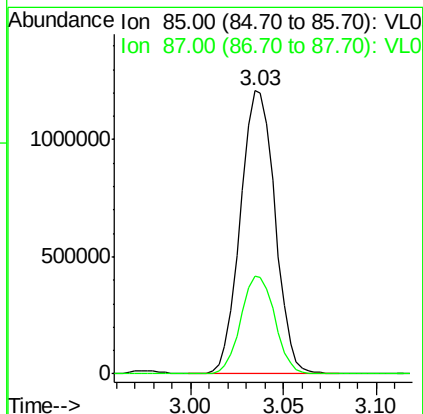
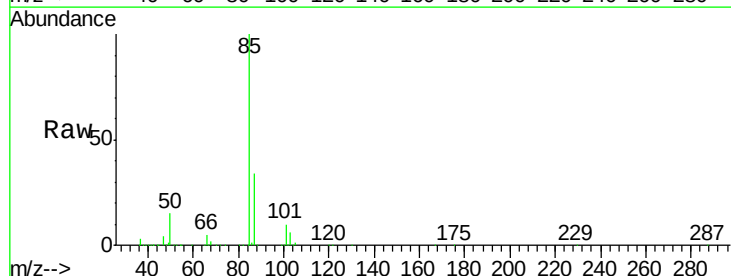
RT: 3.03 min Scan# 77

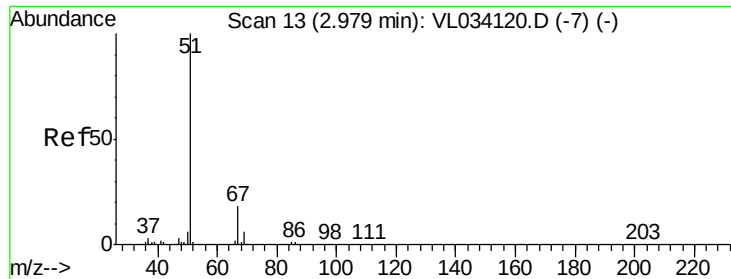
Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.4	28.6	43.0





#3

Chlorodifluoromethane

Concen: 9.651 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1067882

Ion Ratio Lower Upper

51 100

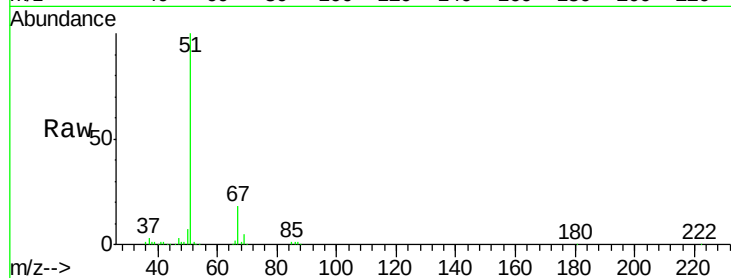
67 17.3 14.2 21.4

Manual Integrations

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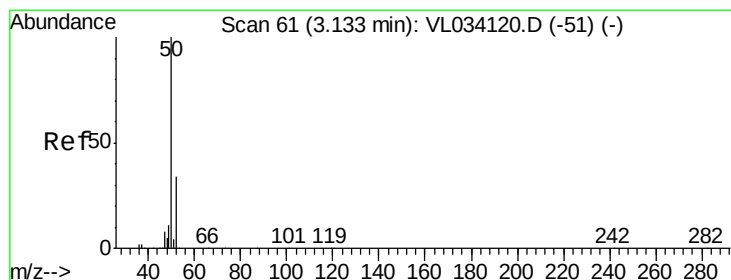
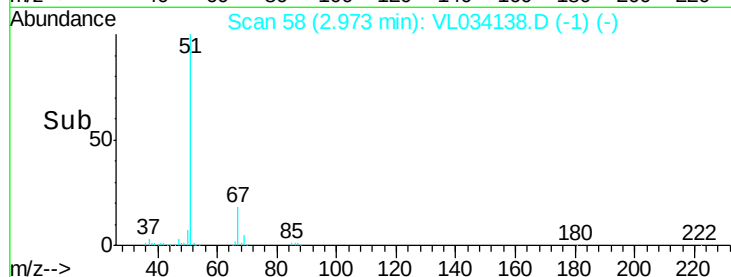
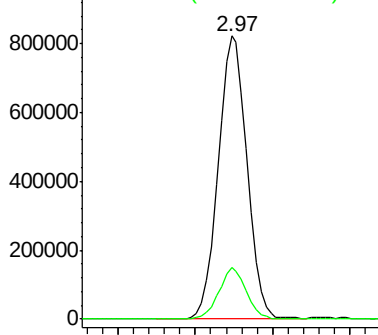
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.617 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL034138.D

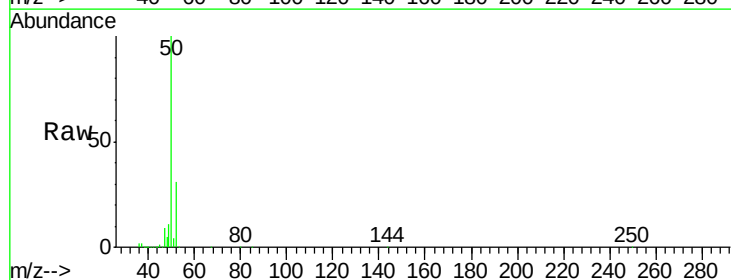
Acq: 10 Sep 2019 9:58

Tgt Ion: 50 Resp: 665270

Ion Ratio Lower Upper

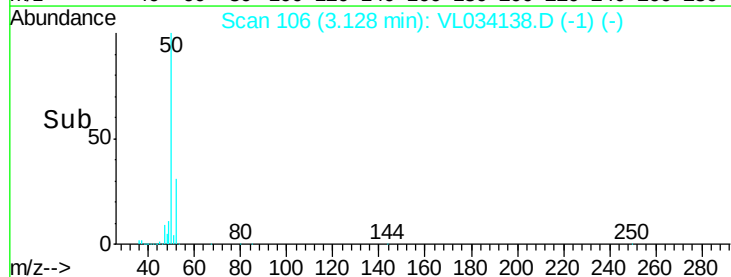
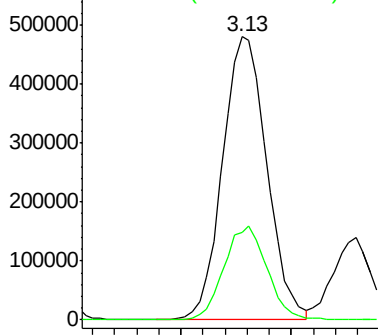
50 100

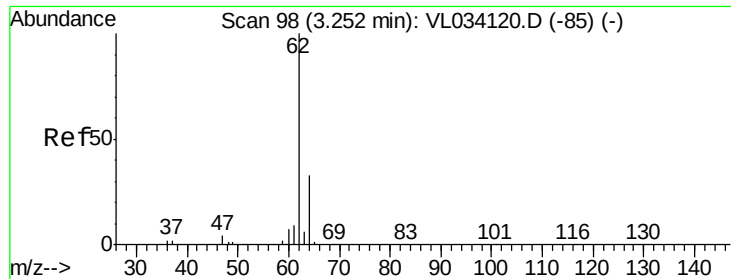
52 31.0 27.4 41.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.309 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.00 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 586583

Ion Ratio Lower Upper

62 100

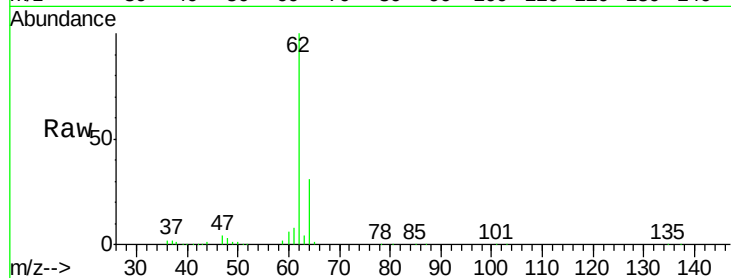
64 31.4 26.6 39.8

Manual Integrations

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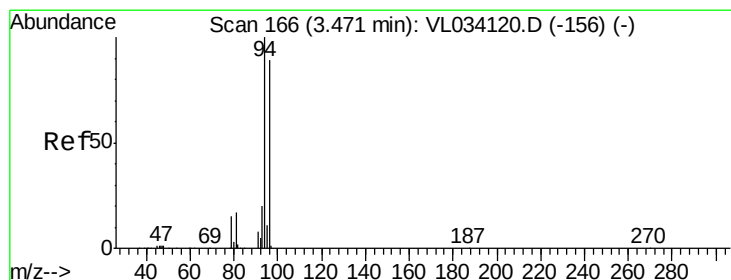
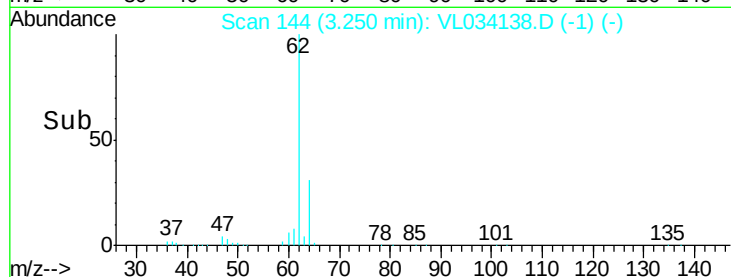
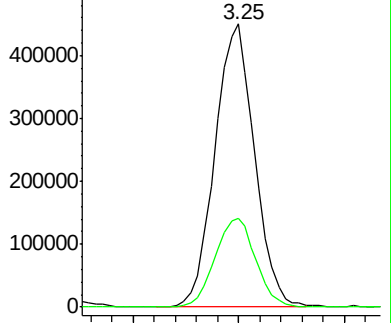
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.351 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL034138.D

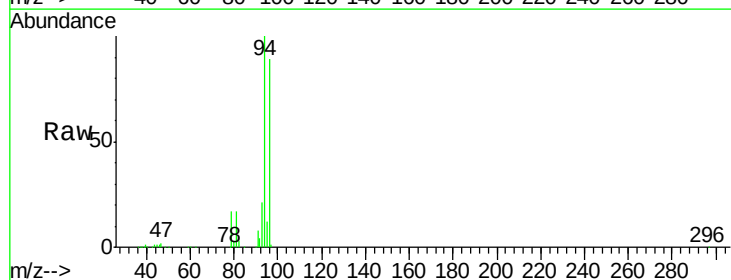
Acq: 10 Sep 2019 9:58

Tgt Ion: 94 Resp: 290814

Ion Ratio Lower Upper

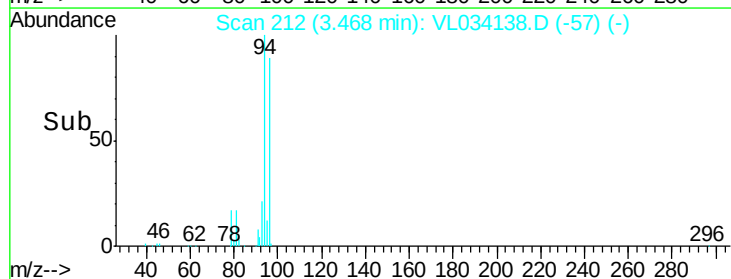
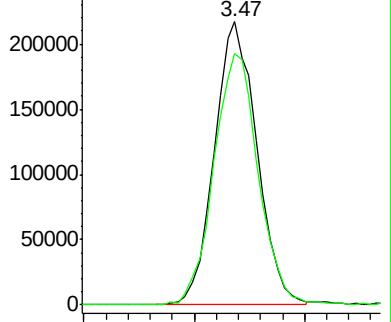
94 100

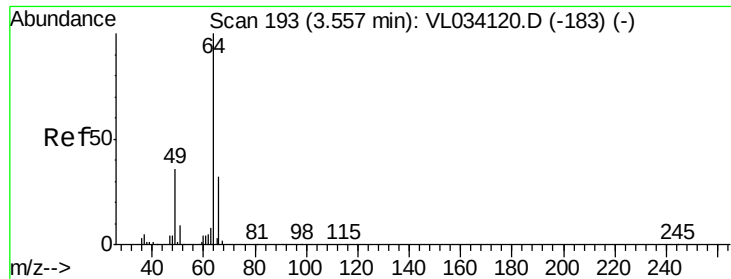
96 88.9 71.4 107.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.875 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 212008

Ion Ratio Lower Upper

64 100

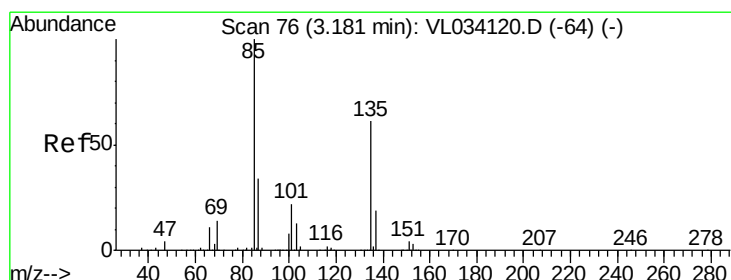
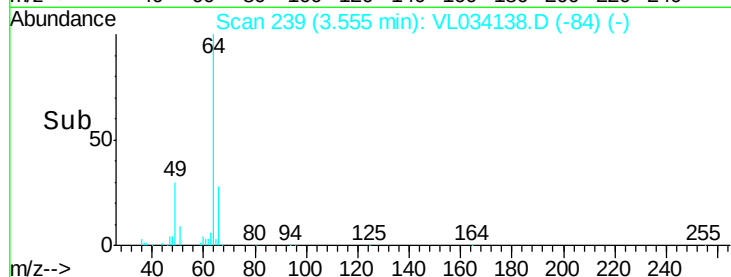
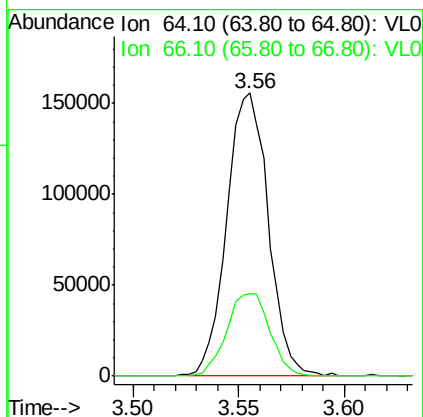
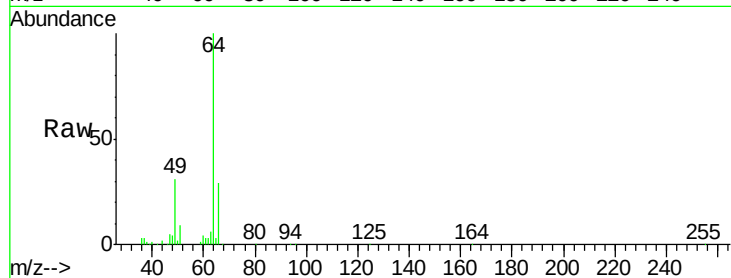
66 29.0 25.4 38.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.197 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.01 min

Lab File: VL034138.D

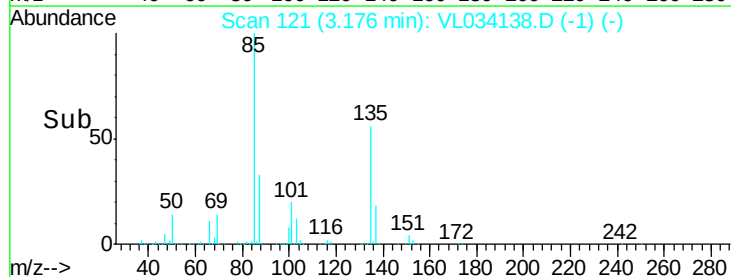
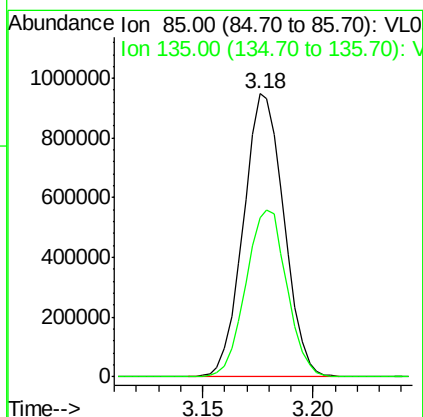
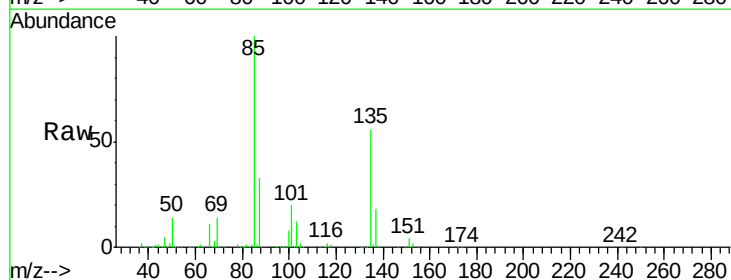
Acq: 10 Sep 2019 9:58

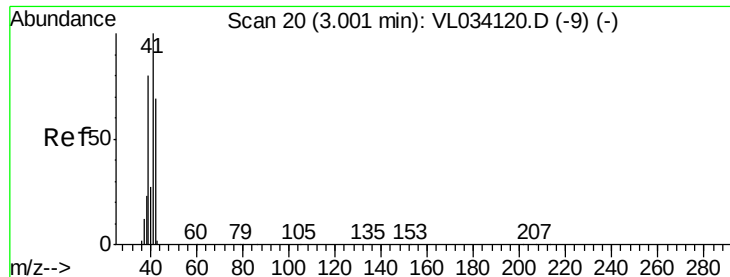
Tgt Ion: 85 Resp: 1212019

Ion Ratio Lower Upper

85 100

135 60.0 48.0 72.0





#9

Propene

Concen: 9.452 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 585190

Ion Ratio Lower Upper

41 100

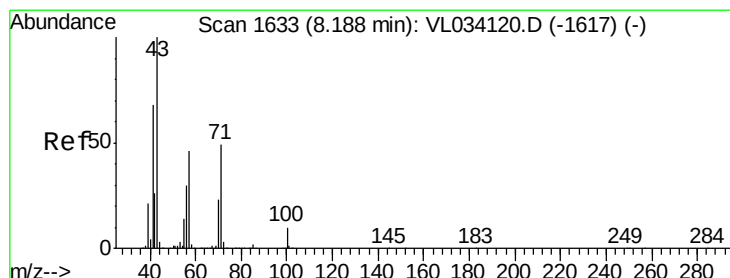
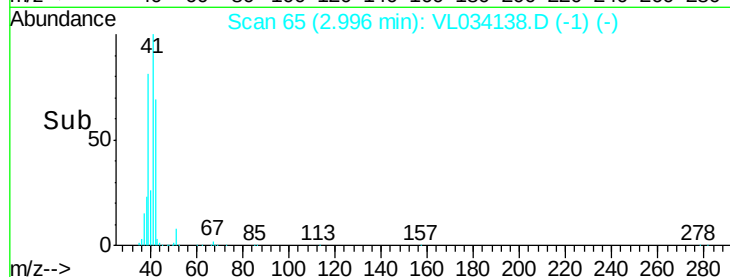
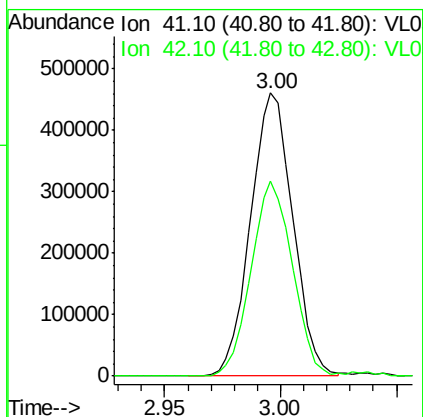
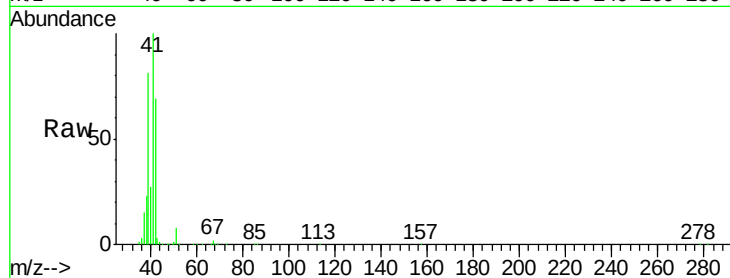
42 68.9 54.6 81.8

Manual Integrations

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9/12/2019 5:16:45 AM



#10

Heptane

Concen: 9.421 ppbv

RT: 8.18 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VL034138.D

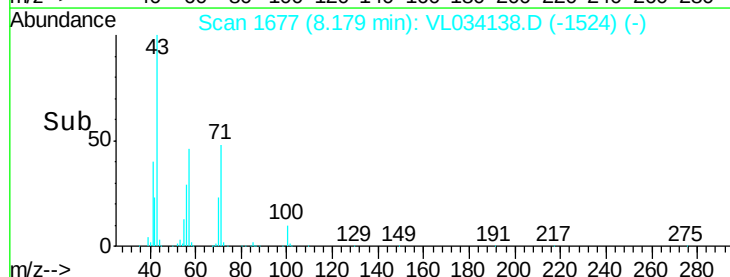
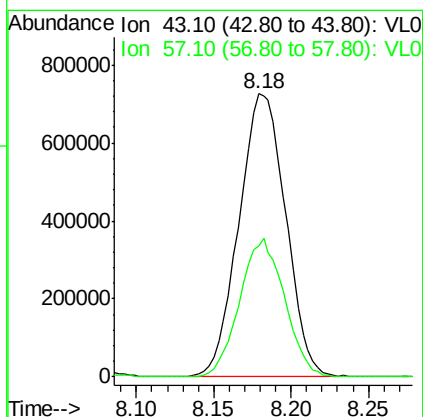
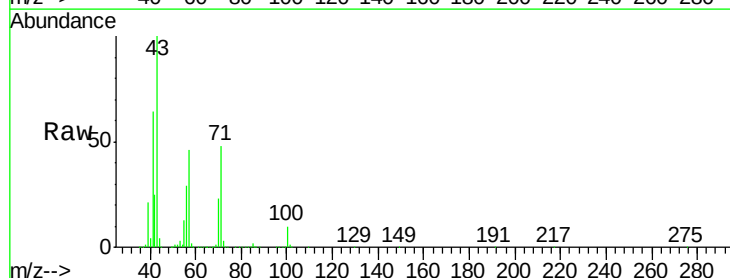
Acq: 10 Sep 2019 9:58

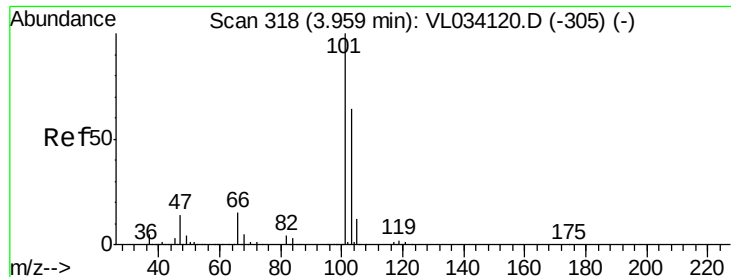
Tgt Ion: 43 Resp: 1513641

Ion Ratio Lower Upper

43 100

57 47.4 38.1 57.1





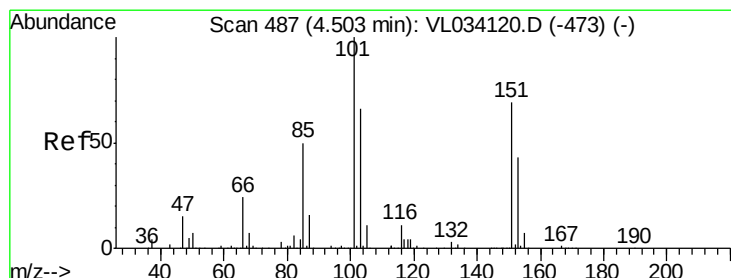
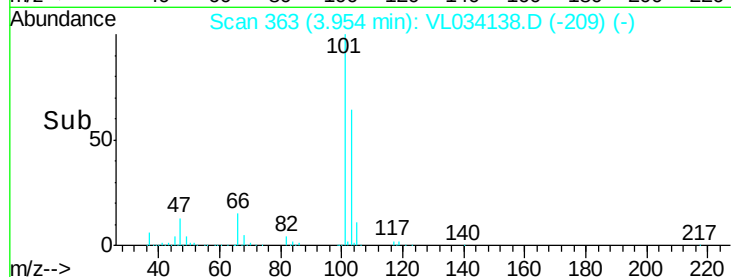
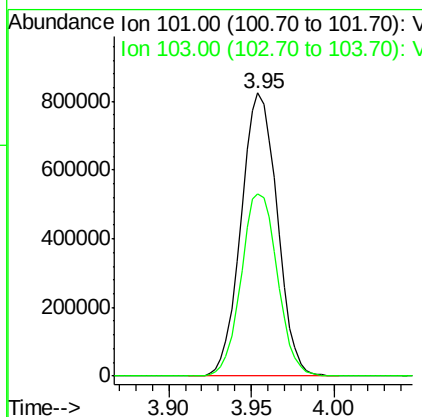
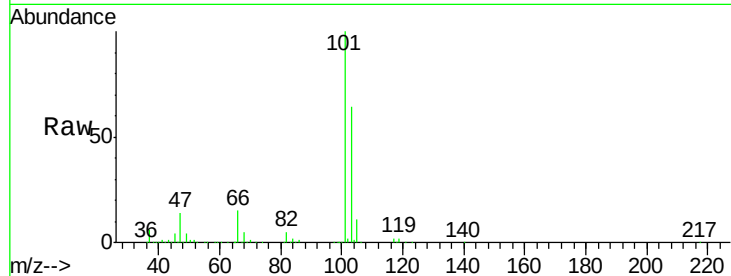
#11
 Trichlorofluoromethane
 Concen: 9.375 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1251800
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.4 77.2

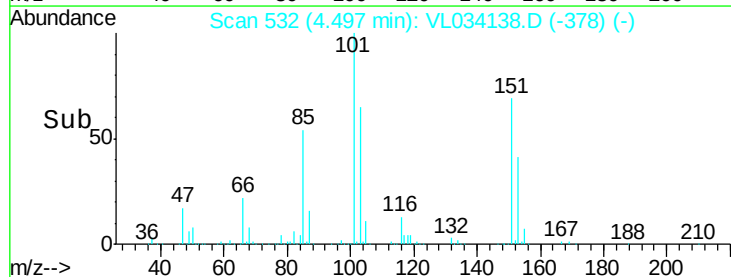
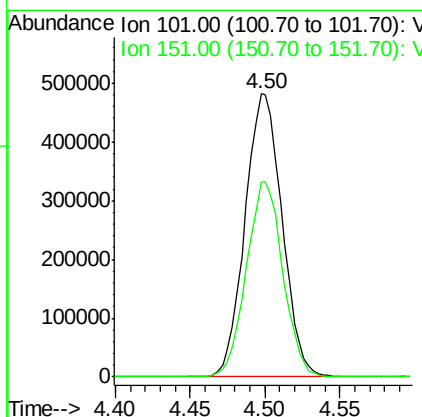
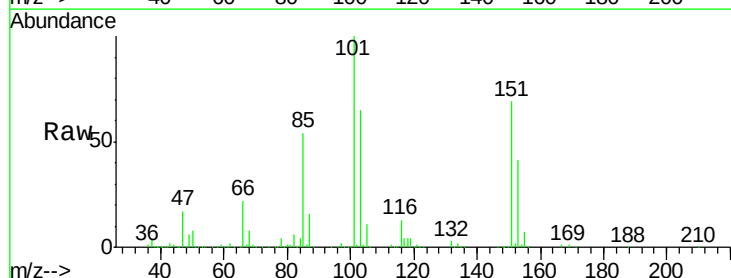
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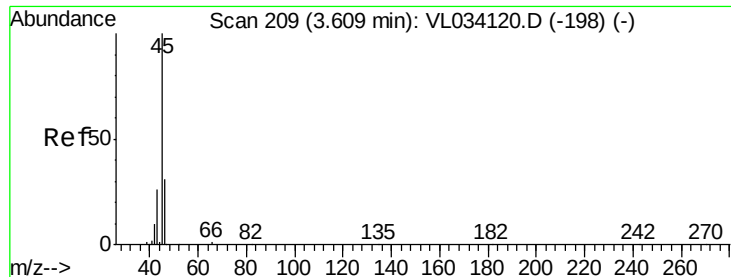
MMDadoda
 9/12/2019 5:16:45 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.306 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion:101 Resp: 831297
 Ion Ratio Lower Upper
 101 100
 151 67.9 53.0 79.6





#13

Ethanol

Concen: 7.094 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 86040

Ion Ratio Lower Upper

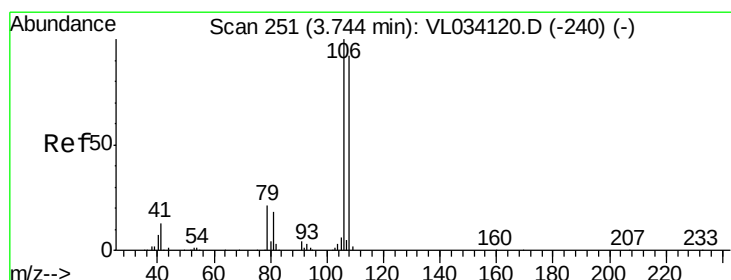
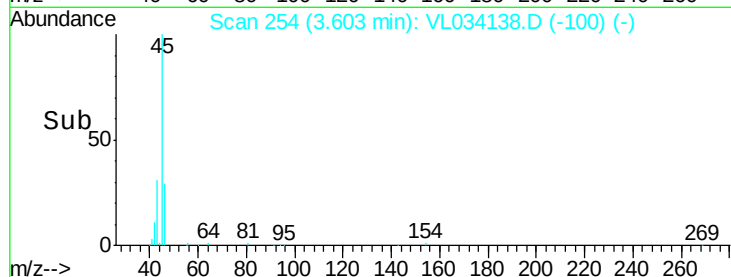
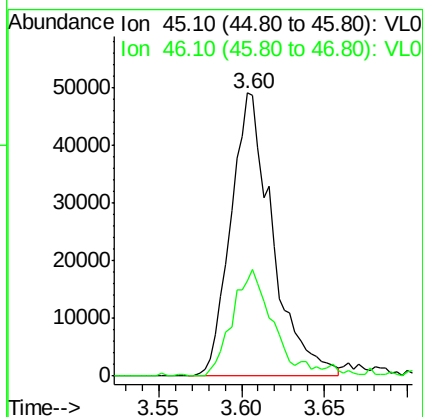
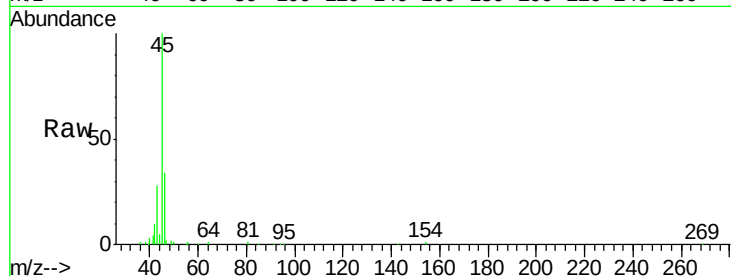
45 100

46 38.9 15.0 60.0

Manual Integrations
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MMDadoda

9/12/2019 5:16:45 AM



#14

Bromoethene

Concen: 9.705 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

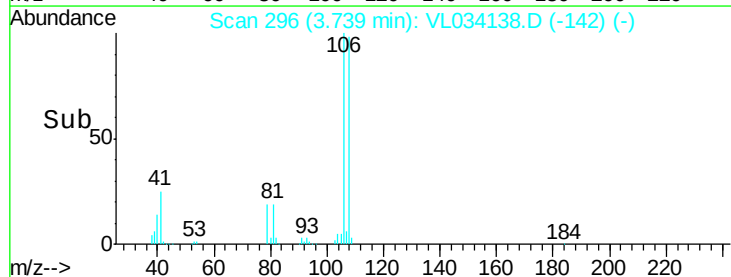
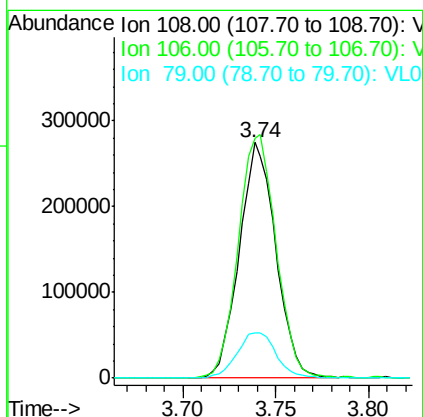
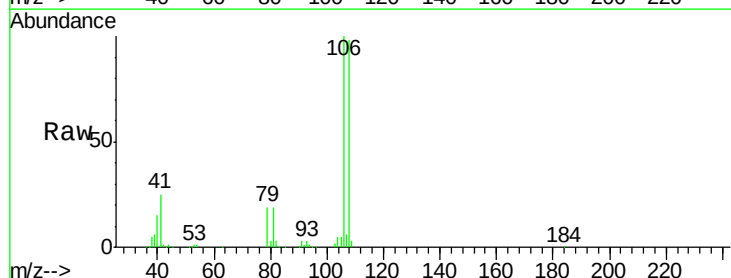
Tgt Ion: 108 Resp: 375345

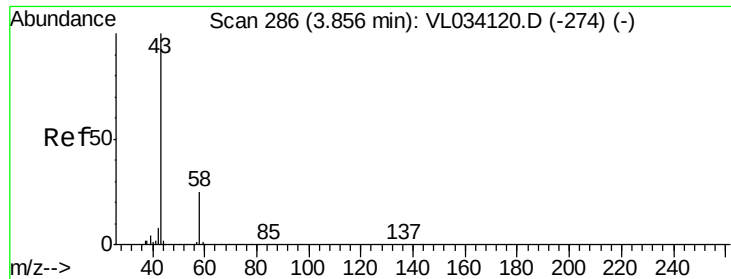
Ion Ratio Lower Upper

108 100

106 107.5 87.2 130.8

79 20.9 16.5 24.7





#15

Acetone

Concen: 9.218 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1102780

Ion Ratio Lower Upper

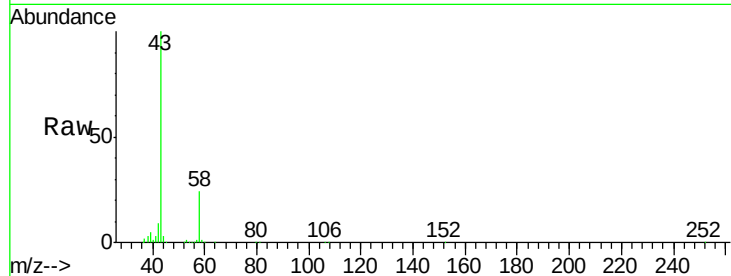
43 100

58 25.4 20.6 30.8

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

Ion 58.10 (57.80 to 58.80): VL0

3.85

800000

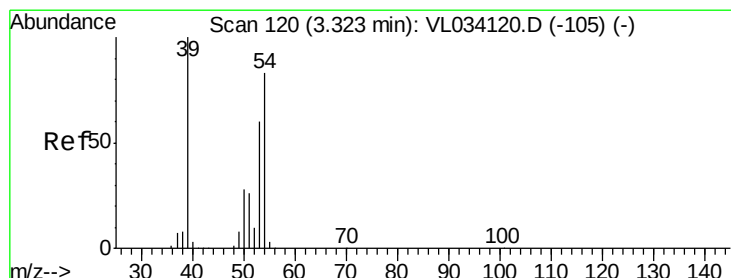
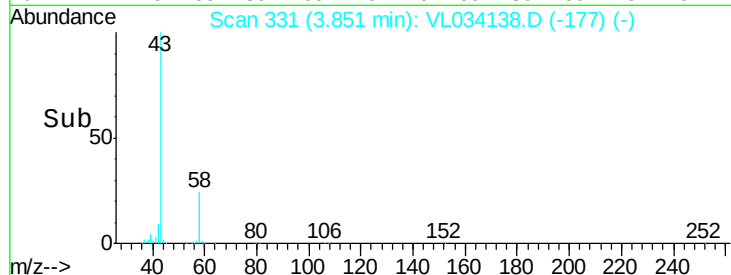
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.599 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL034138.D

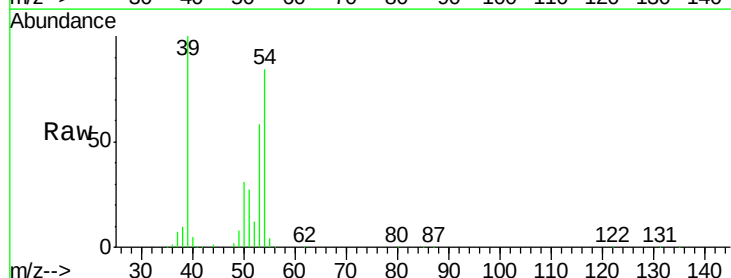
Acq: 10 Sep 2019 9:58

Tgt Ion: 39 Resp: 581557

Ion Ratio Lower Upper

39 100

54 80.4 63.5 95.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.32

500000

400000

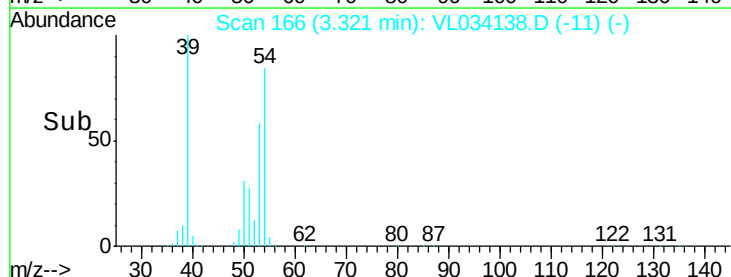
300000

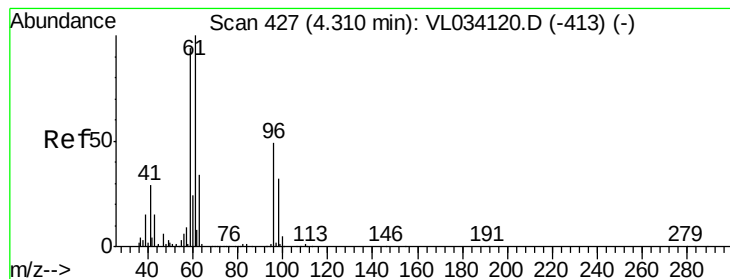
200000

100000

0

Time-->





#17

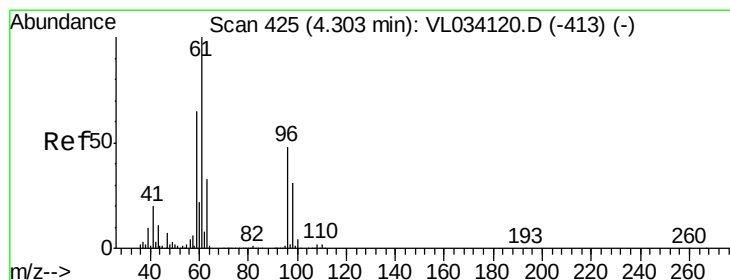
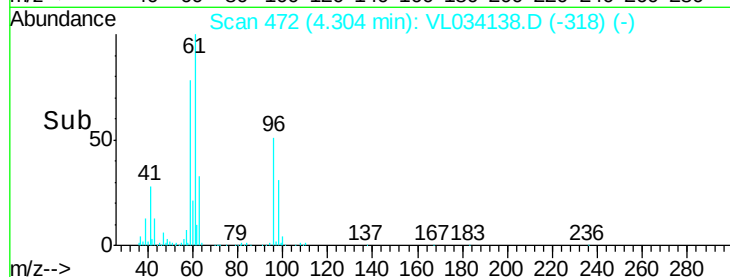
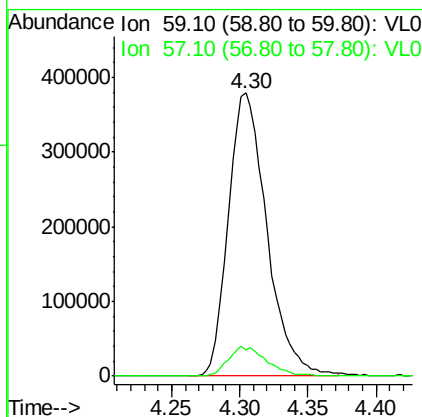
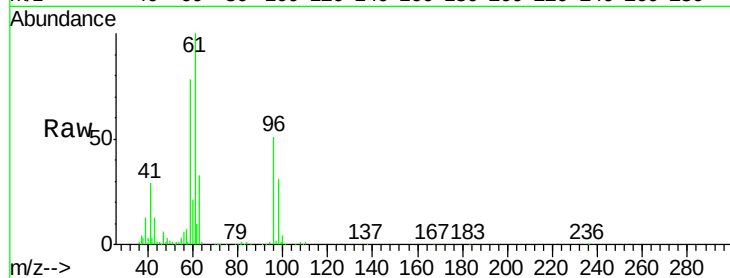
tert-Butyl alcohol
Concen: 8.567 ppbv
RT: 4.30 min Scan# 472
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	12.8

Manual Integrations
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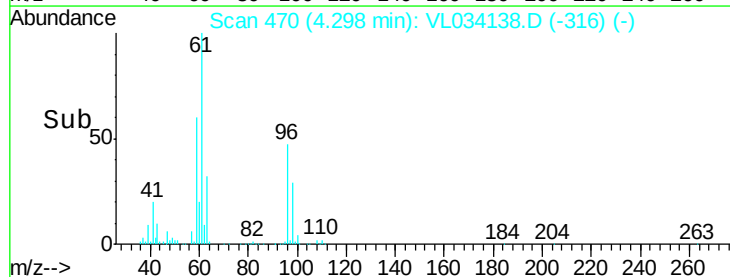
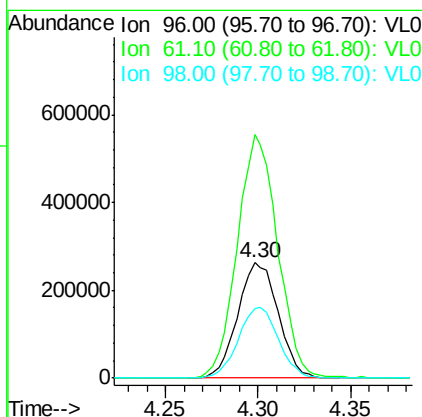
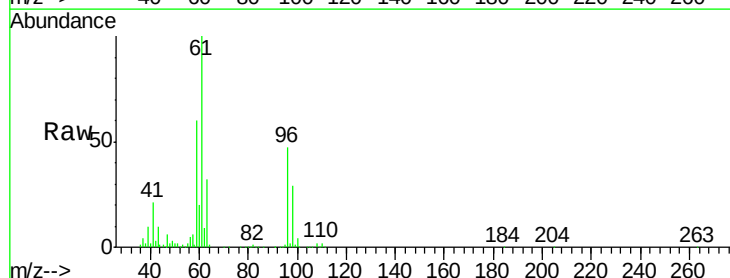
MMDadoda
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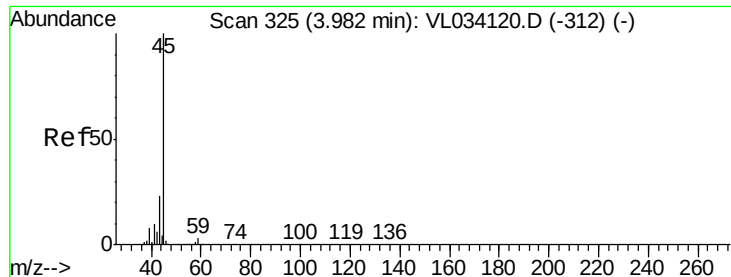


#18

1,1-Dichloroethene
Concen: 9.750 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	211.3	165.8	248.8
98	60.8	50.8	76.2





#19

Isopropyl Alcohol

Concen: 7.553 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 609914

Ion Ratio Lower Upper

45 100

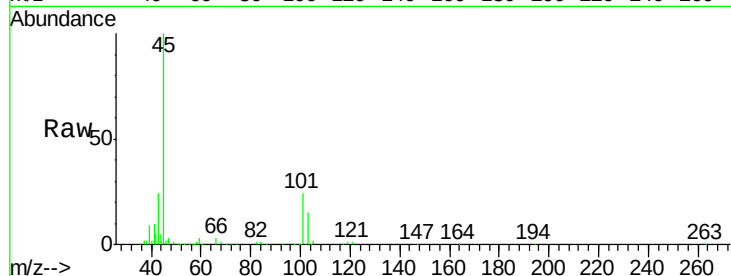
58 1.4 1.0 1.6

Manual Integrations

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9/12/2019 5:16:45 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

400000

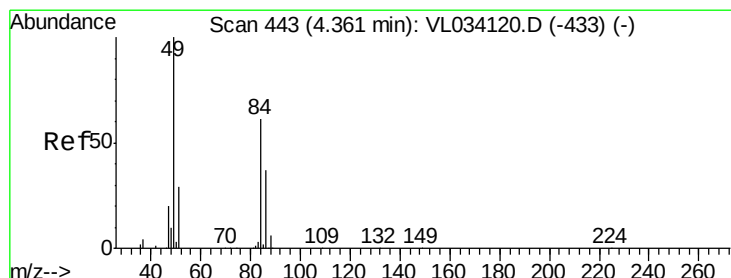
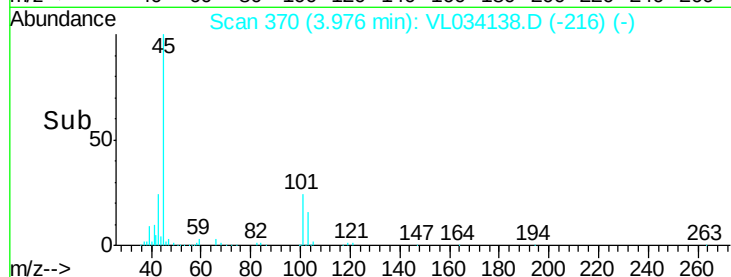
300000

200000

100000

0

Time--> 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 8.864 ppbv

RT: 4.36 min Scan# 488

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Tgt Ion: 84 Resp: 350628

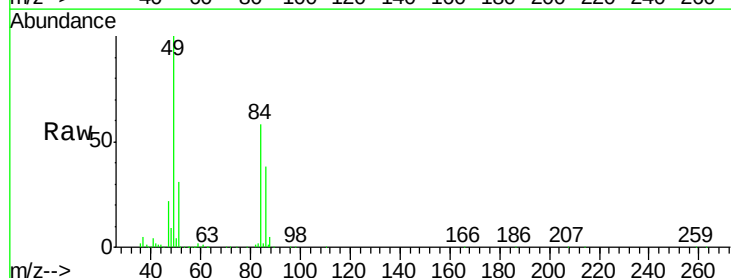
Ion Ratio Lower Upper

84 100

49 171.3 131.0 196.6

51 51.7 38.1 57.1

86 66.1 49.0 73.6



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

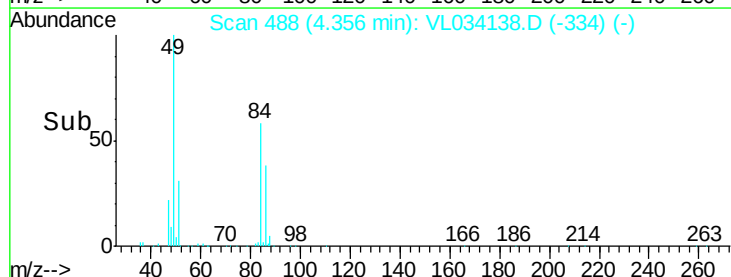
300000

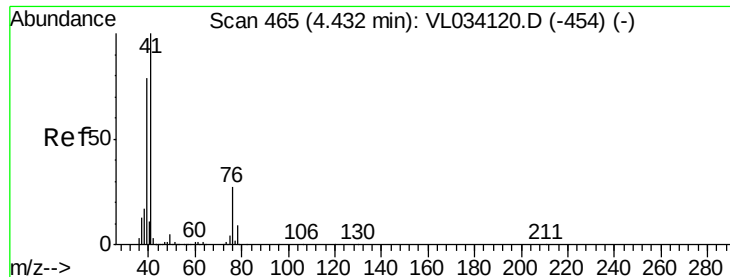
200000

100000

0

Time--> 4.30 4.35 4.40





#21

Allvl Chloride

Concen: 9.948 ppbv

RT: 4.43 min Scan# 510

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

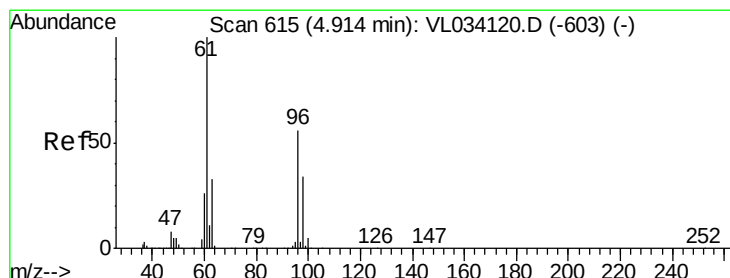
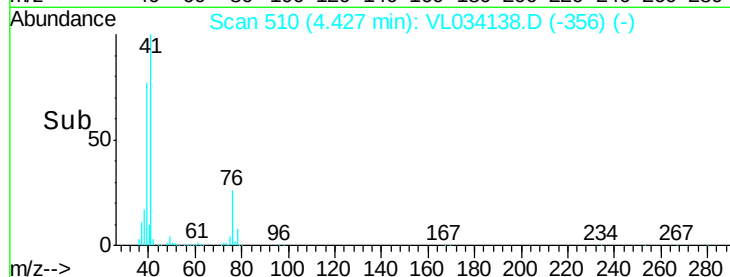
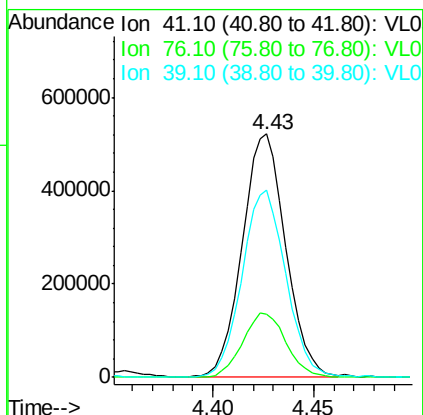
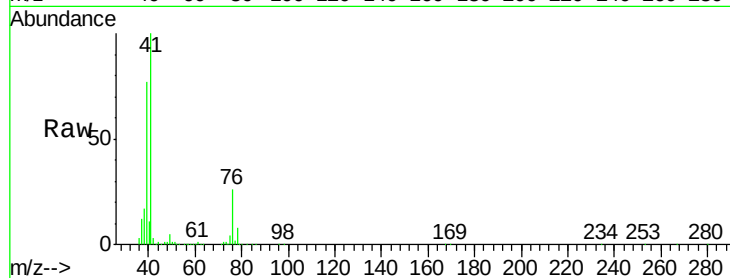
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	784620
Ion Ratio		Lower	Upper
41	100		
76	26.6	21.6	32.4
39	77.7	65.0	97.4

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.658 ppbv

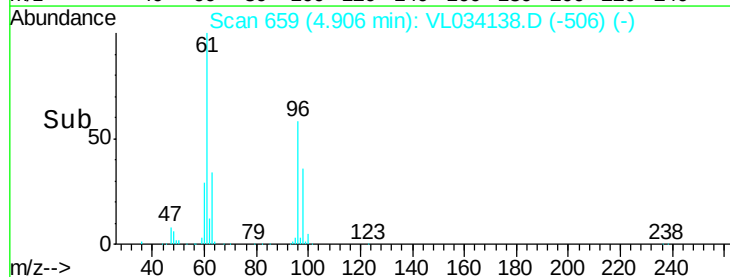
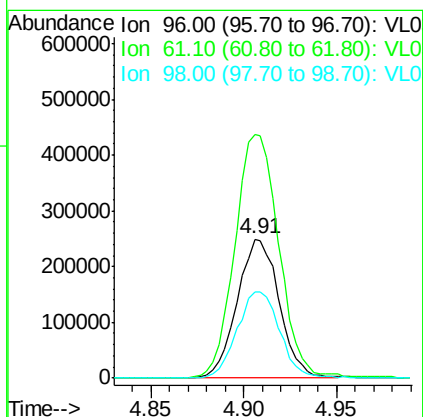
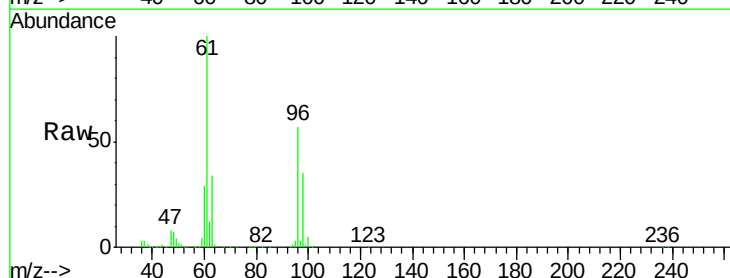
RT: 4.91 min Scan# 659

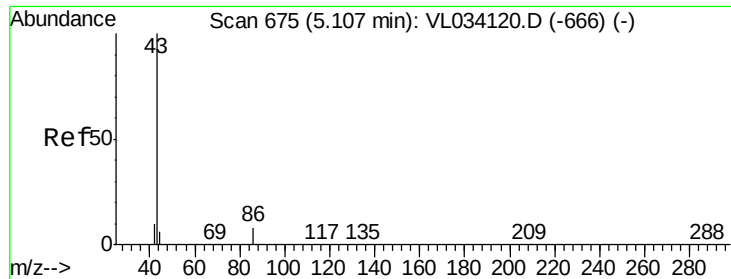
Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Tgt Ion:	96	Resp:	394539
Ion Ratio		Lower	Upper
96	100		
61	175.2	143.1	214.7
98	61.8	49.0	73.4





#23

Vinyl Acetate

Concen: 9.753 ppbv

RT: 5.10 min Scan# 719

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1979678

Ion Ratio Lower Upper

43 100

86 6.7 5.5 8.3

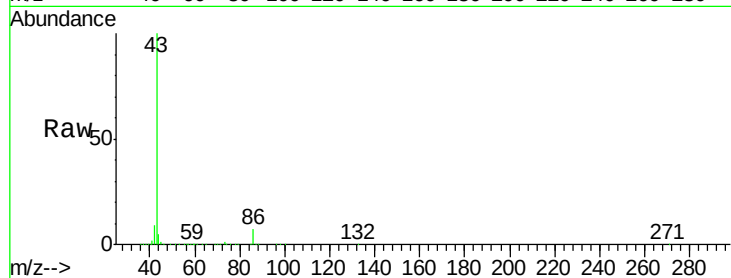
42 9.4 8.2 12.4

44 5.3 4.3 6.5

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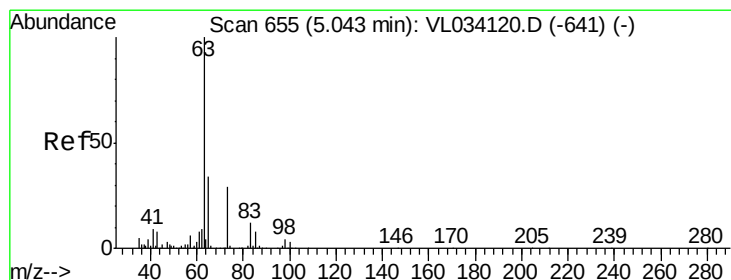
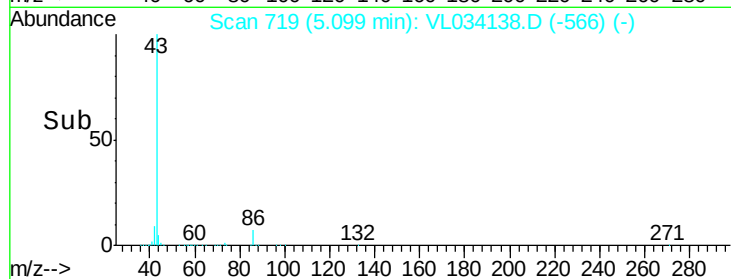
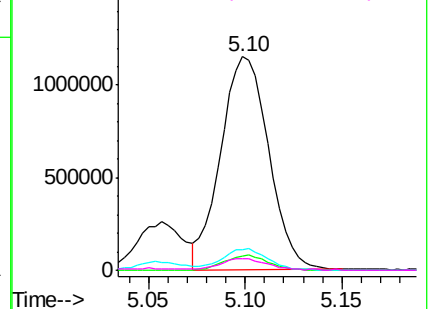


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.354 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

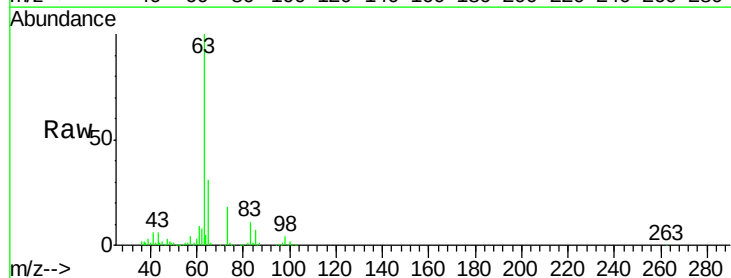
Tgt Ion: 63 Resp: 1260104

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.2

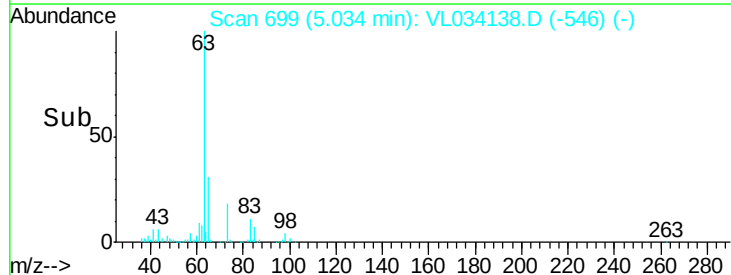
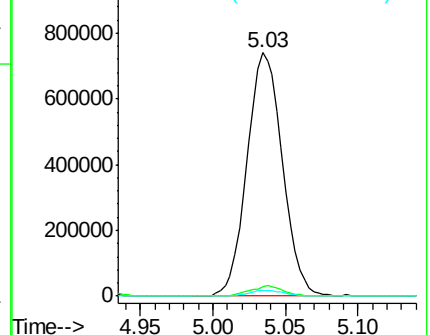
100 2.4 1.4 4.0

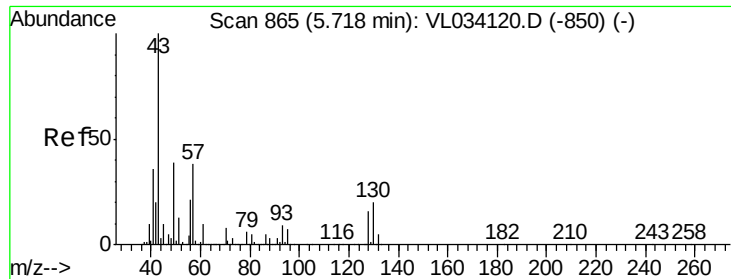


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





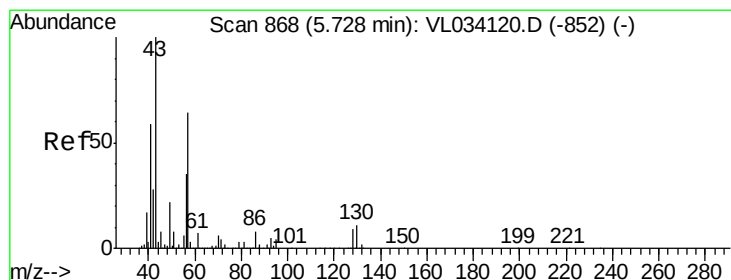
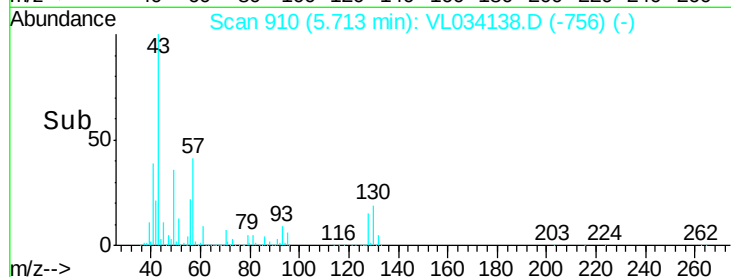
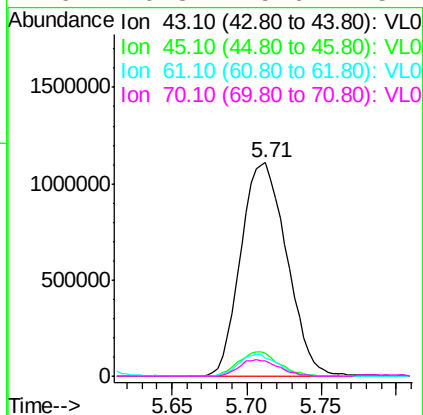
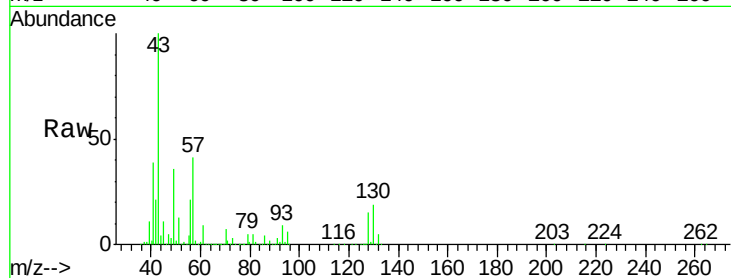
#25
Ethyl Acetate
Concen: 9.005 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	43	Resp	2364914
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.2	12.4
61	8.7	7.4	11.2
70	6.8	5.6	8.4

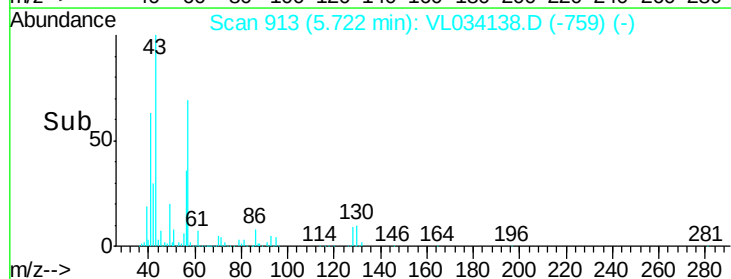
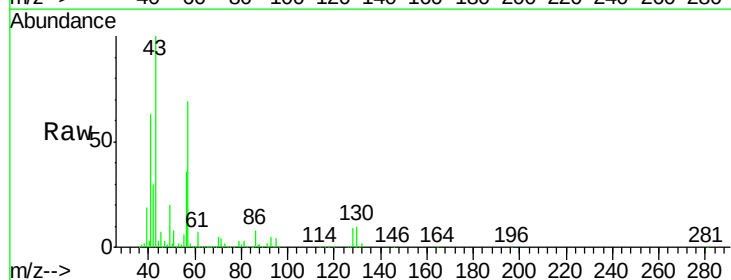
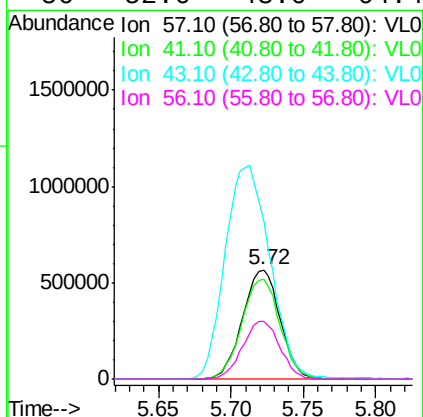
Manual Integrations
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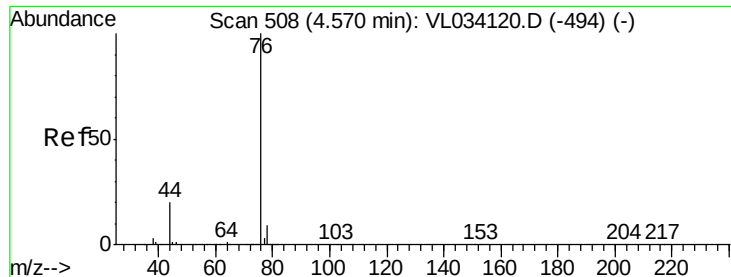
MMDadoda
9/12/2019 5:16:45 AM



#26
Hexane
Concen: 8.758 ppbv
RT: 5.72 min Scan# 913
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Tgt Ion	57	Resp	1022573
Ion	Ratio	Lower	Upper
57	100		
41	93.6	76.6	115.0
43	232.4	189.2	283.8
56	52.6	43.0	64.4





#27

Carbon Disulfide

Concen: 10.045 ppbv

RT: 4.56 min Scan# 553

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1058448

Ion Ratio Lower Upper

76 100

44 21.2 17.6 26.4

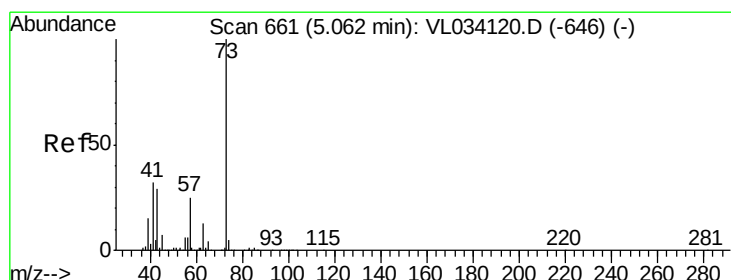
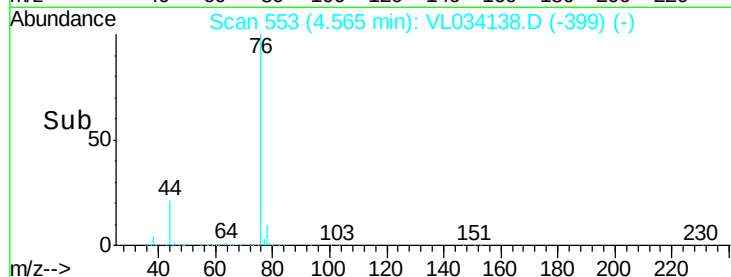
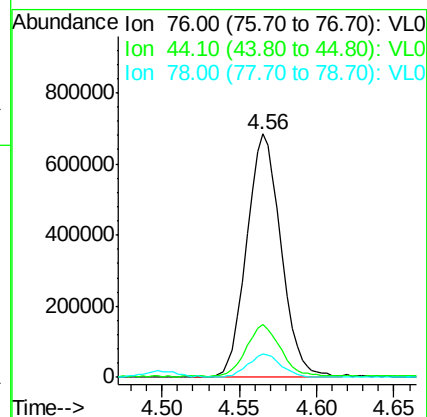
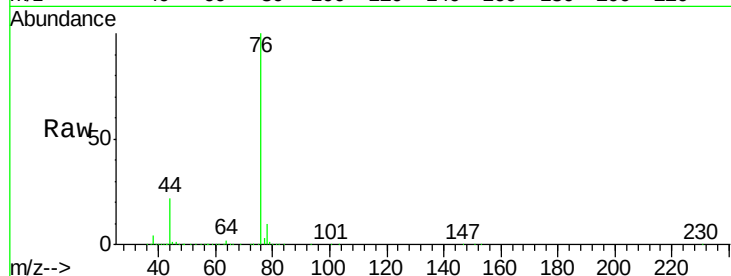
78 9.6 7.3 10.9

Manual Integrations

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MMDadoda

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#28

Methyl tert-Butyl Ether

Concen: 9.458 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.01 min

Lab File: VL034138.D

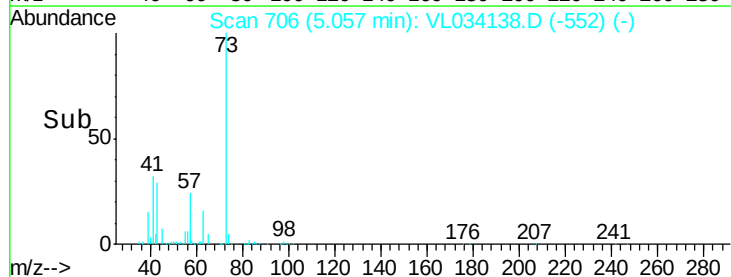
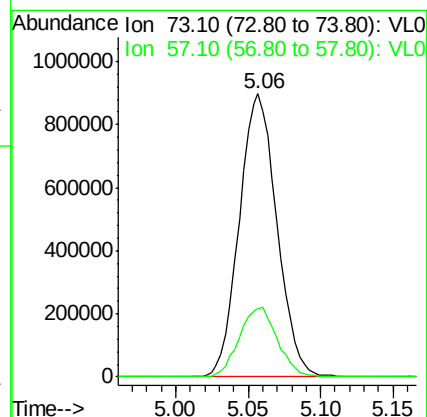
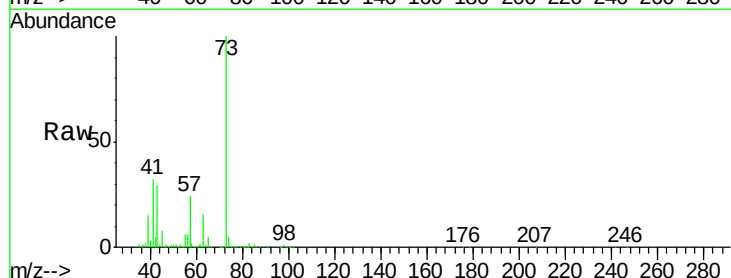
Acq: 10 Sep 2019 9:58

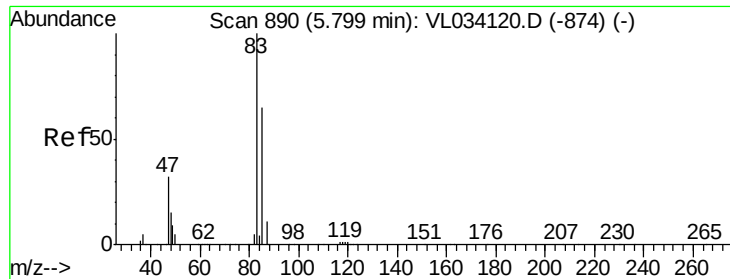
Tgt Ion: 73 Resp: 1617986

Ion Ratio Lower Upper

73 100

57 25.1 19.8 29.8





#29

Chloroform

Concen: 9.224 ppbv

RT: 5.79 min Scan# 934

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1452616

Ion Ratio Lower Upper

83 100

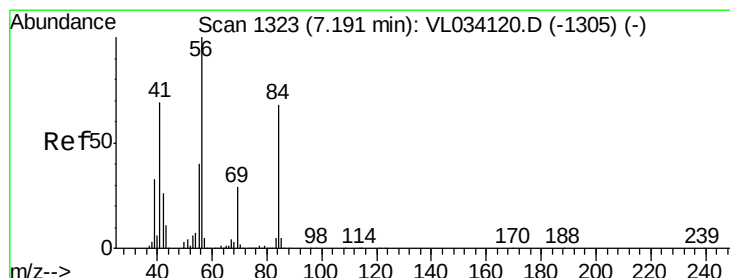
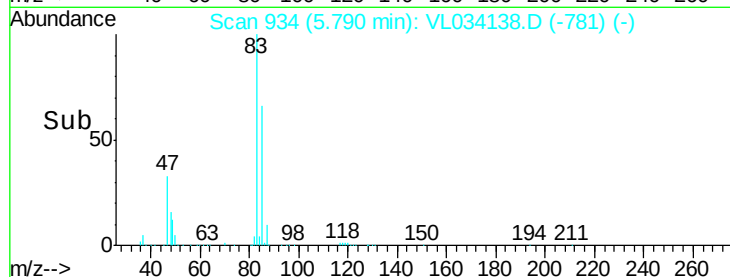
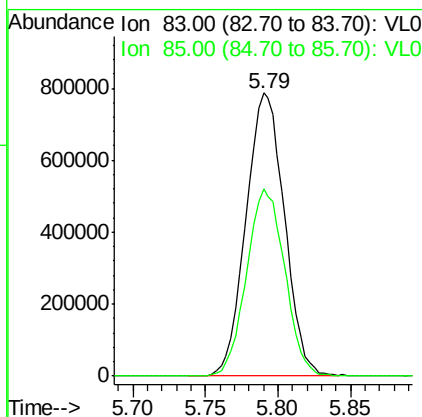
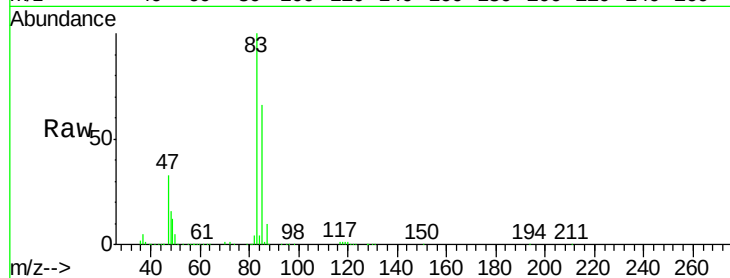
85 66.3 51.8 77.6

Manual Integrations

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#30

Cyclohexane

Concen: 9.518 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

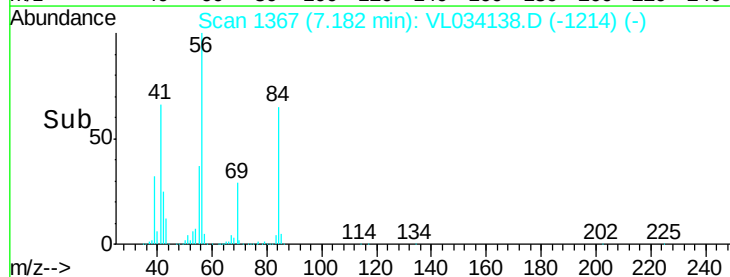
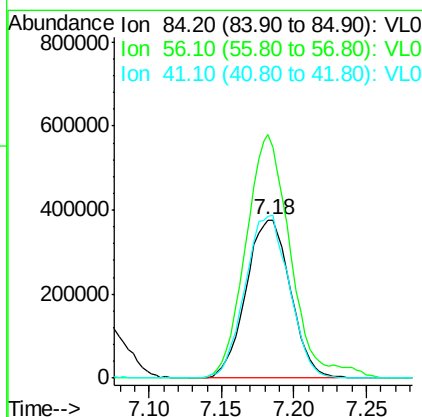
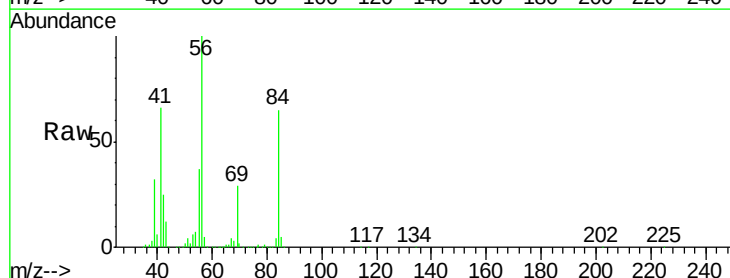
Tgt Ion: 84 Resp: 803444

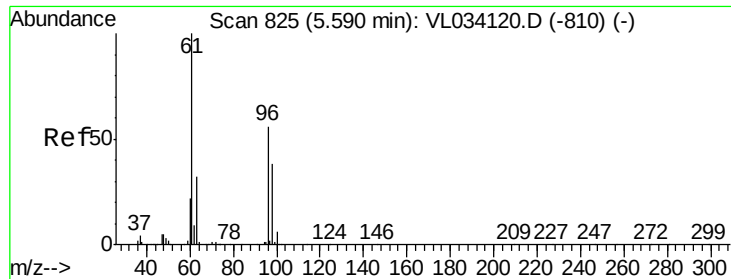
Ion Ratio Lower Upper

84 100

56 155.8 122.6 183.8

41 102.6 79.1 118.7





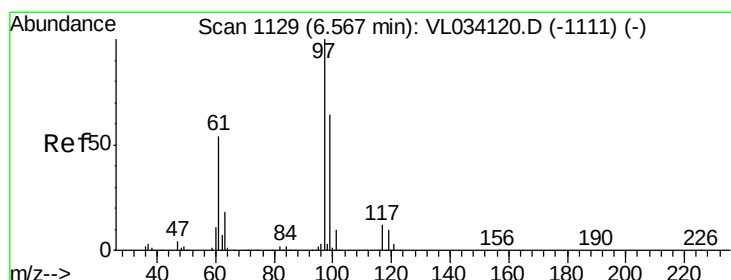
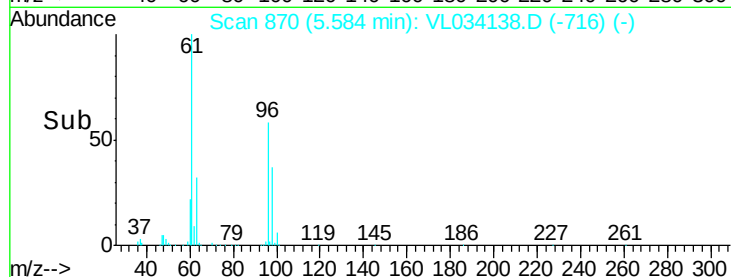
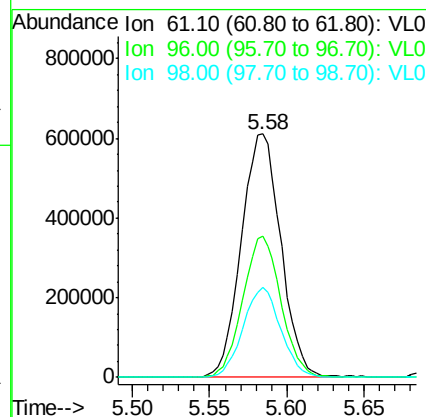
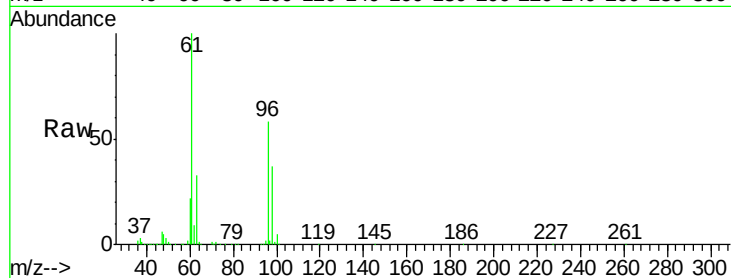
#31
 cis-1,2-Dichloroethene
 Concen: 9.708 ppbv
 RT: 5.58 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	57.9	44.4	66.6
98	36.8	30.0	45.0

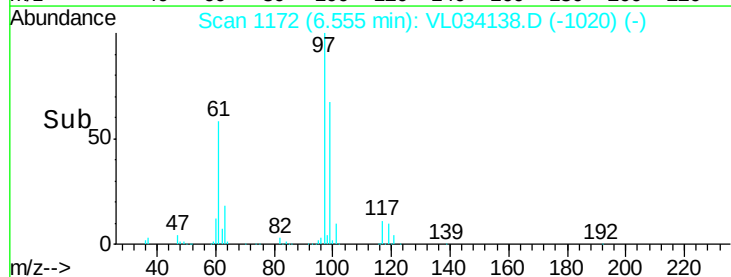
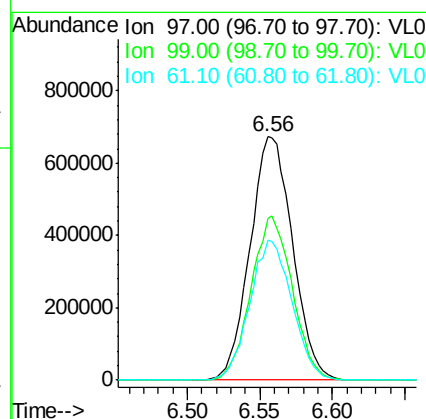
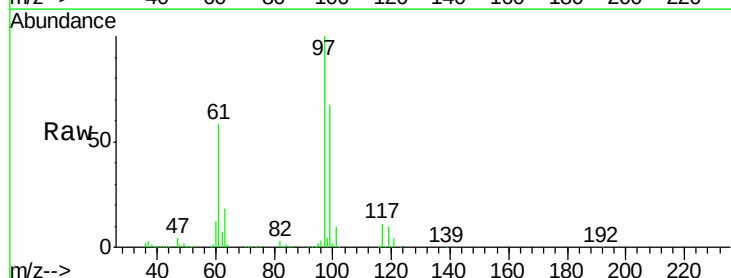
Manual Integrations
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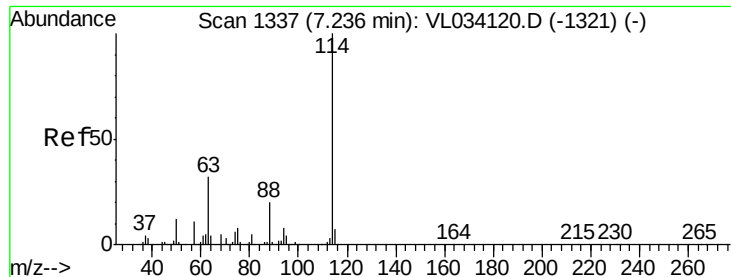
MMDadoda
 9/12/2019 5:16:45 AM



#32
 1,1,1-Trichloroethane
 Concen: 9.245 ppbv
 RT: 6.56 min Scan# 1172
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.7	77.5
61	57.2	44.0	66.0





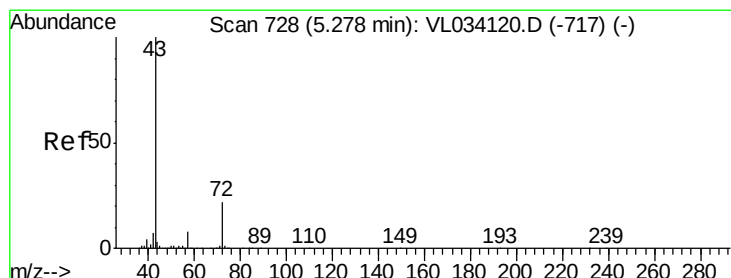
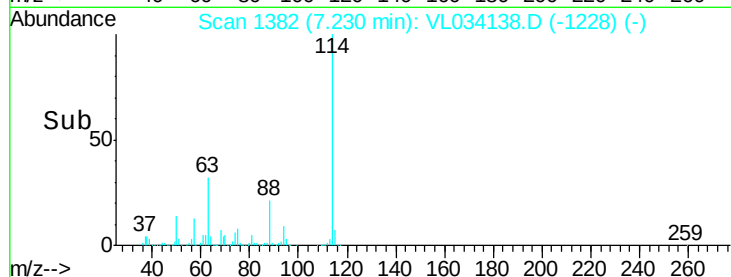
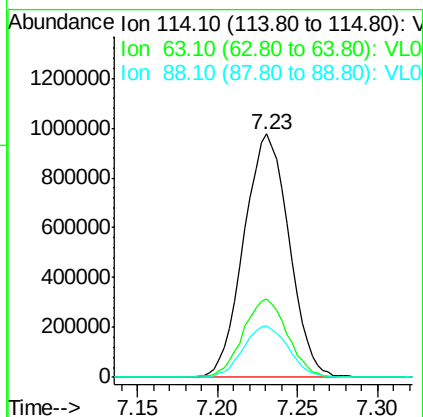
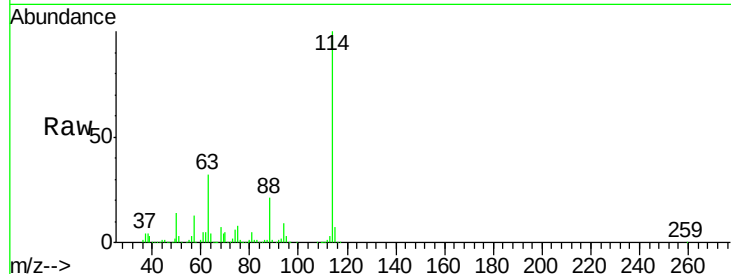
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1382
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	32.0	25.5	38.3
88	21.0	16.8	25.2

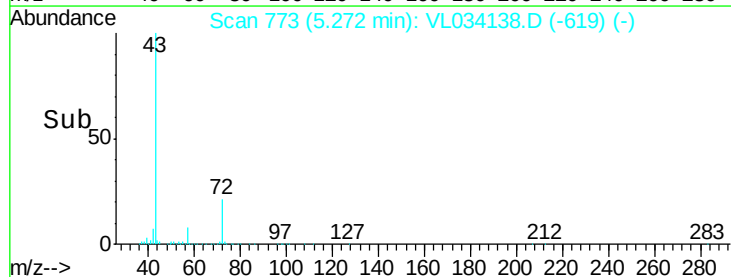
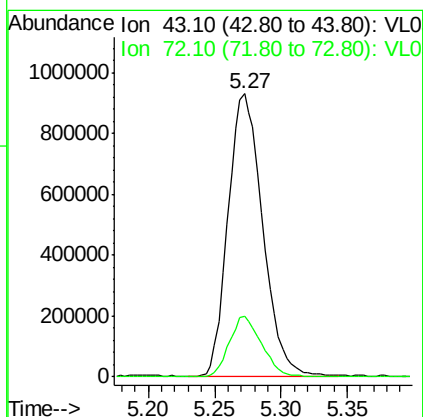
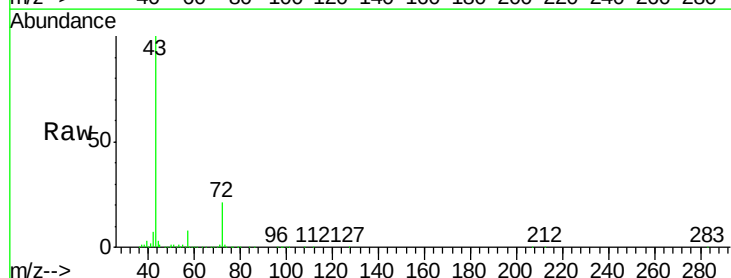
Manual Integrations
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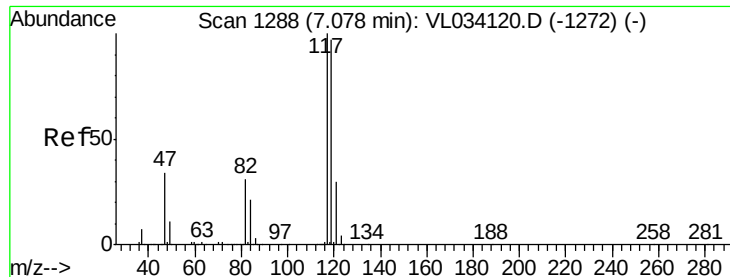
MMDadoda
 9/12/2019 5:16:45 AM



#34
 2-Butanone
 Concen: 9.247 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.3	16.5	24.7





#35

Carbon Tetrachloride

Concen: 9.107 ppbv

RT: 7.07 min Scan# 1332

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1342308

Ion Ratio Lower Upper

117 100

119 95.0 77.2 115.8

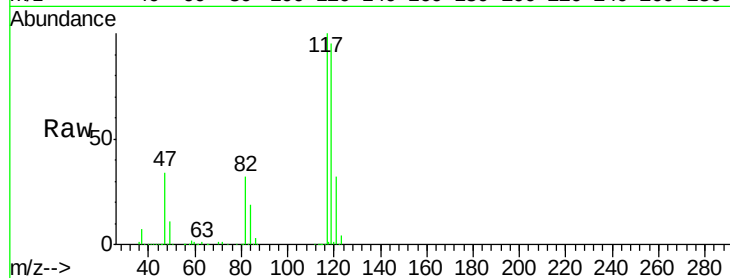
121 31.8 24.2 36.4

Manual Integrations

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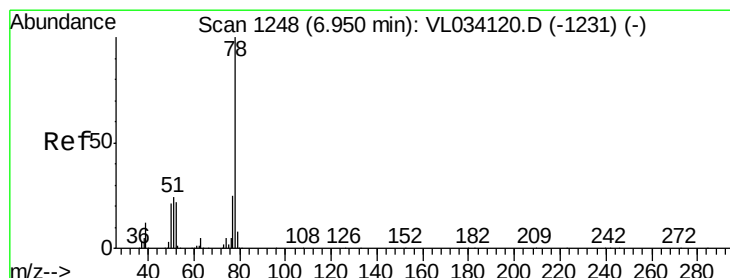
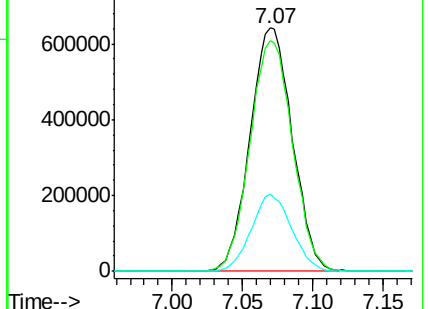
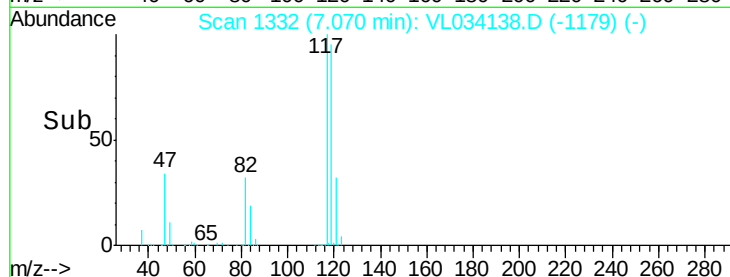
9/12/2019 5:16:45 AM



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: 9.182 ppbv

RT: 6.94 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

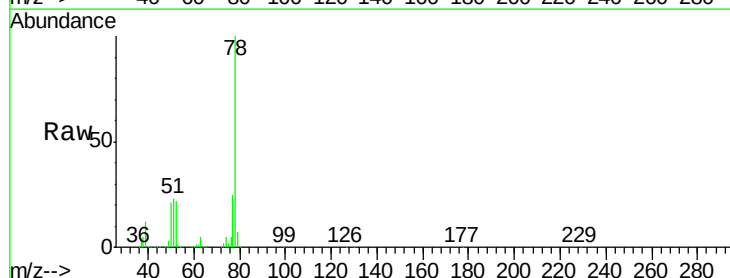
Tgt Ion: 78 Resp: 1984123

Ion Ratio Lower Upper

78 100

77 24.8 20.3 30.5

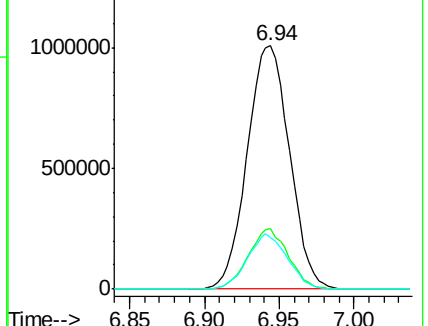
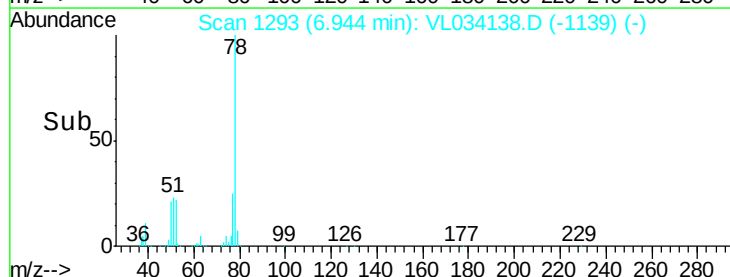
50 21.0 16.9 25.3

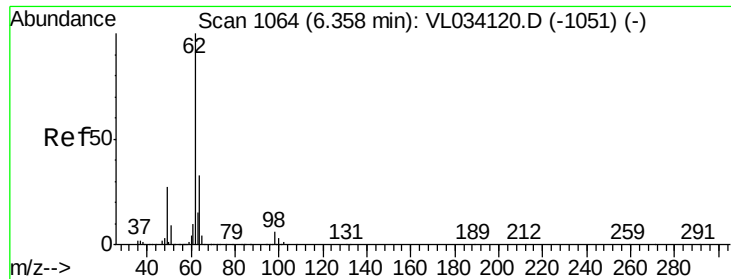


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





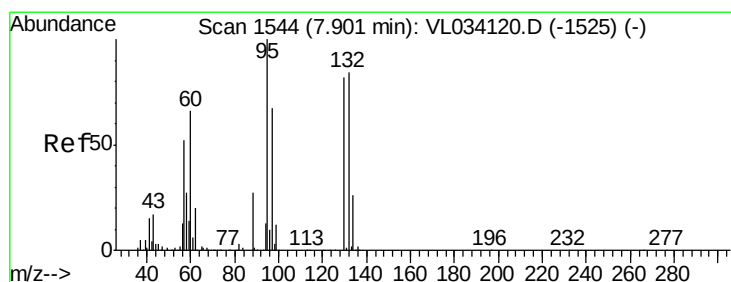
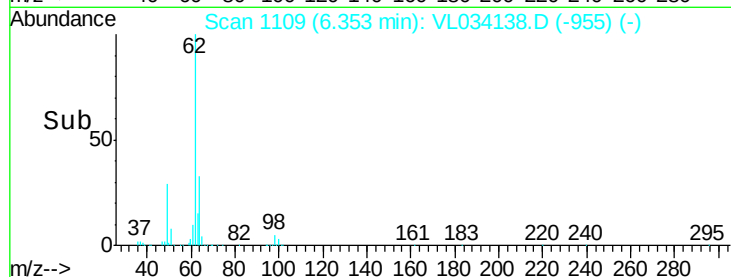
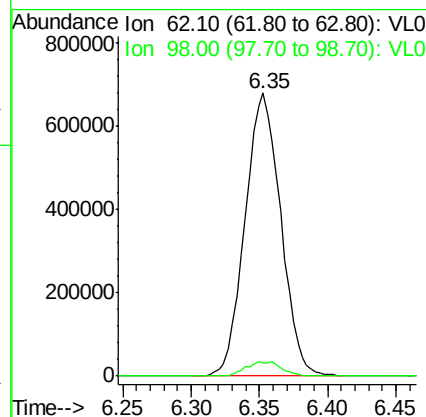
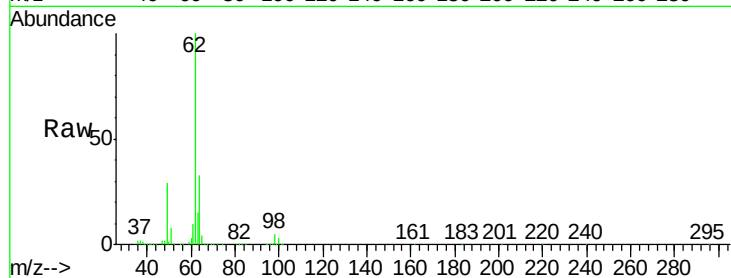
#37
 1,2-Dichloroethane
 Concen: 9.339 ppbv
 RT: 6.35 min Scan# 1109
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.2	4.4	6.6

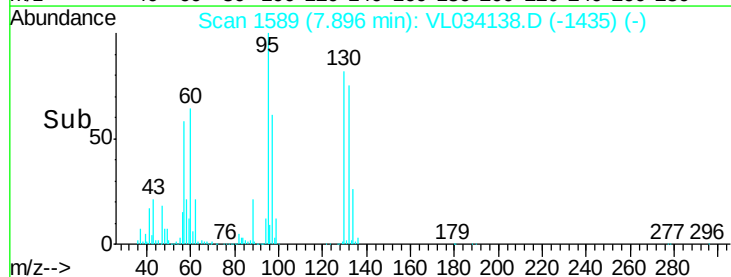
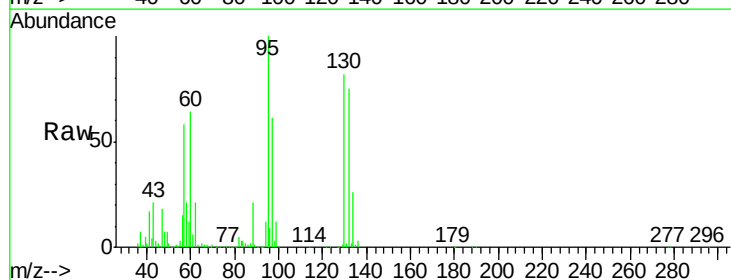
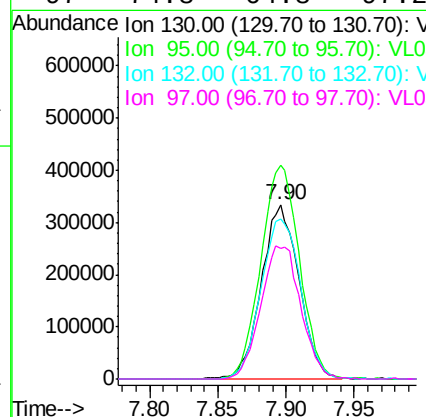
Manual Integrations
 APPROVED

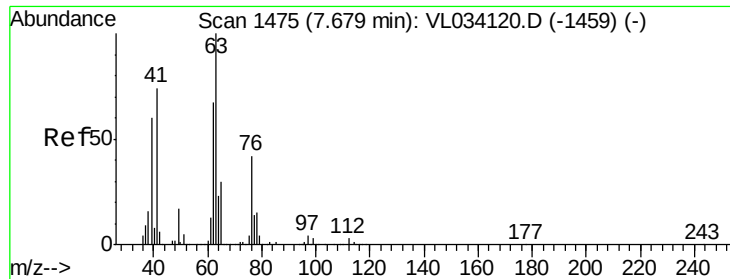
MMDadoda
 9/12/2019 5:16:45 AM



#38
 Trichloroethene
 Concen: 7.938 ppbv
 RT: 7.90 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	122.8	97.2	145.8
132	91.6	81.4	122.2
97	74.8	64.8	97.2





#39

1,2-Dichloropropane

Concen: 9.215 ppbv

RT: 7.67 min Scan# 1519

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

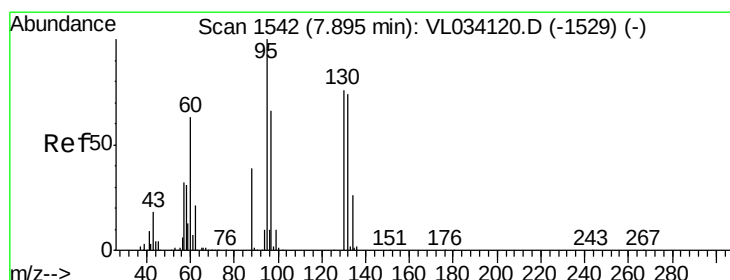
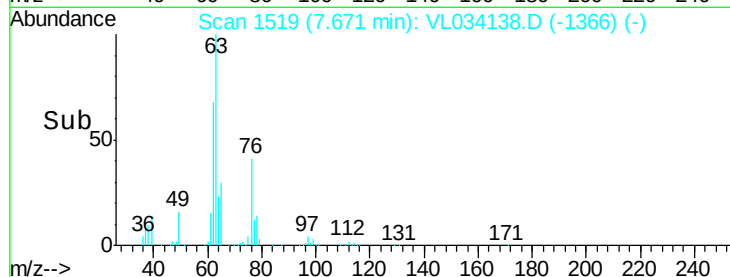
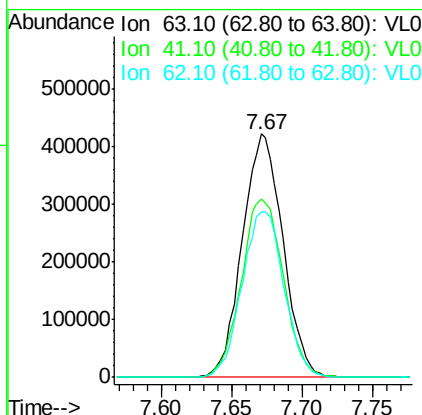
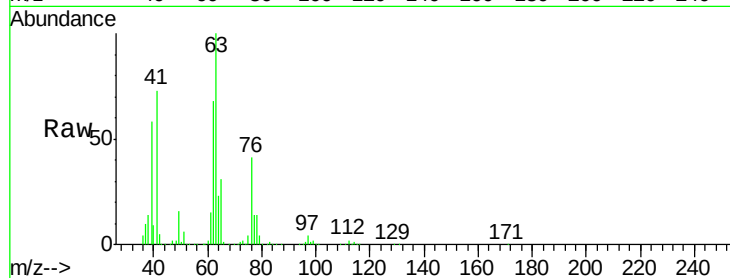
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	852207
Ion Ratio	Lower	Upper	
63	100		
41	73.0	59.3	88.9
62	68.0	53.8	80.6

Manual Integrations
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MMDadoda
9/12/2019 5:16:45 AM



#40

1,4-Dioxane

Concen: 7.050 ppbv

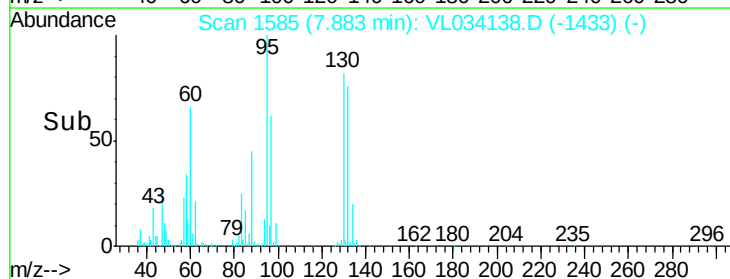
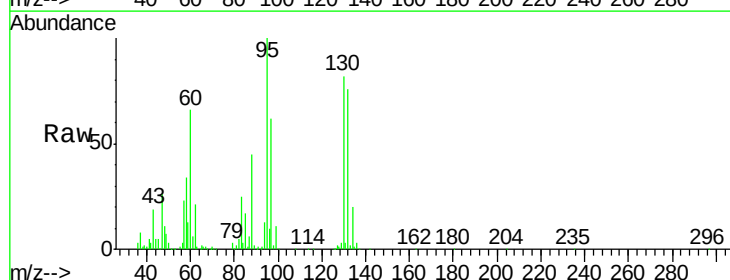
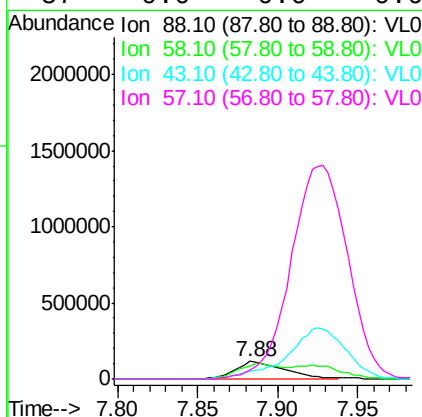
RT: 7.88 min Scan# 1585

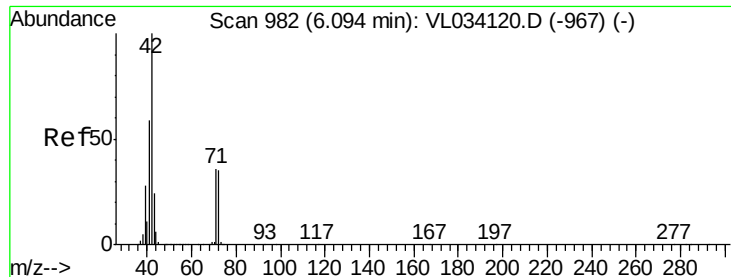
Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Tgt Ion:	88	Resp:	239598
Ion Ratio	Lower	Upper	
88	100		
58	157.5	121.7	182.5
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.457 ppbv

RT: 6.09 min Scan# 1026

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 42 Resp: 1030429

Ion Ratio Lower Upper

42 100

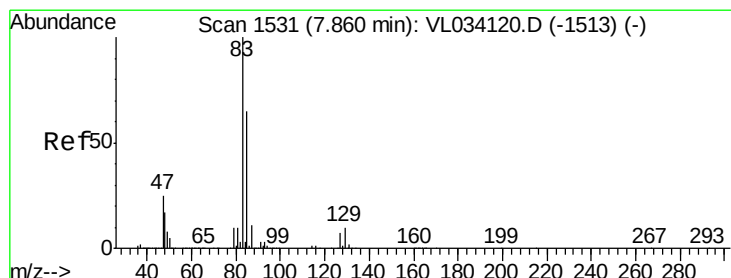
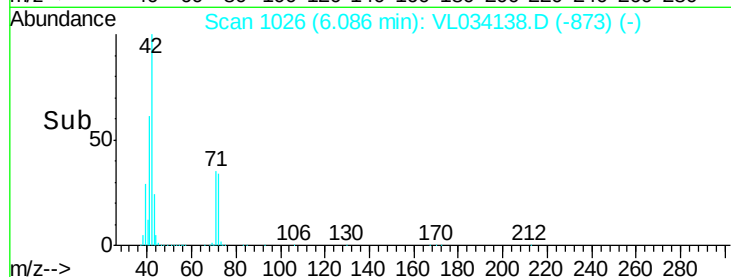
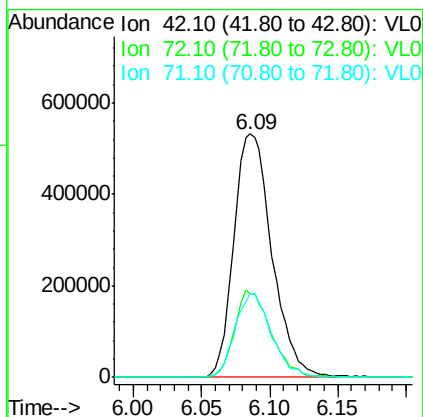
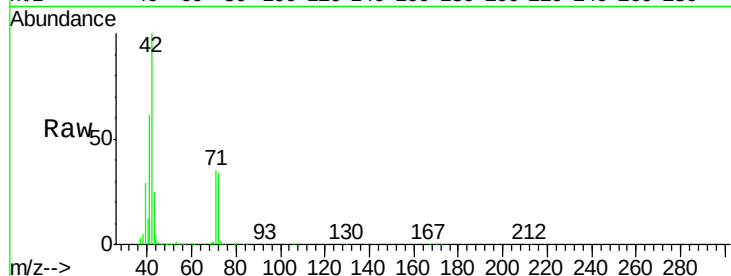
72 34.4 27.7 41.5

71 33.3 26.7 40.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.399 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

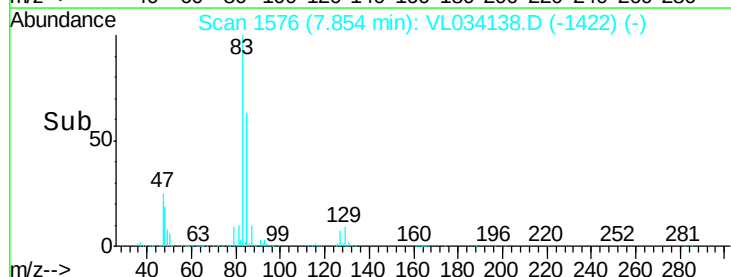
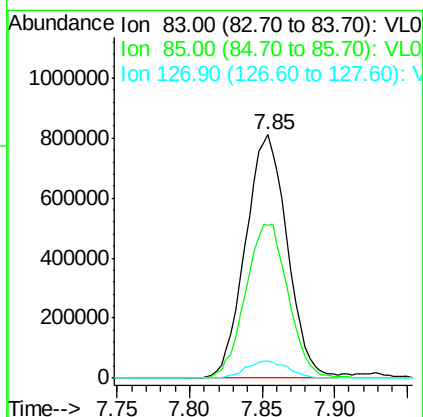
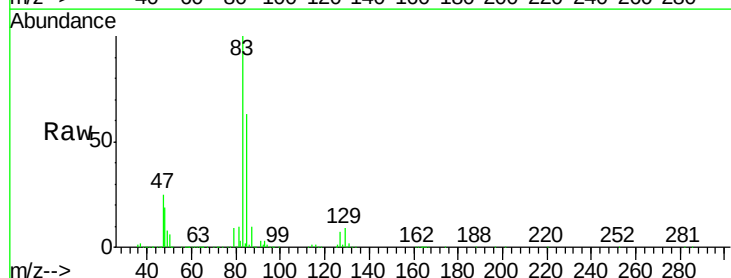
Tgt Ion: 83 Resp: 1623867

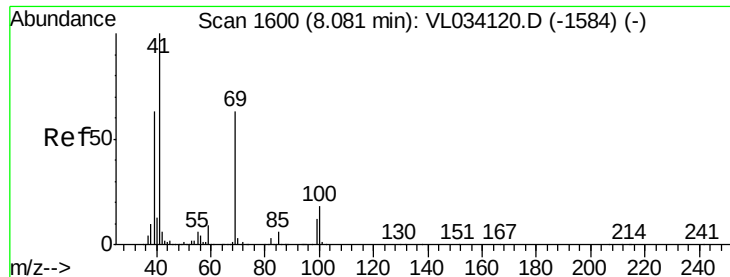
Ion Ratio Lower Upper

83 100

85 62.8 51.6 77.4

127 7.0 5.4 8.0





#43

Methyl Methacrylate

Concen: 9.587 ppbv

RT: 8.08 min Scan# 1645

Delta R.T. -0.01 min

Lab File: VL034138.D

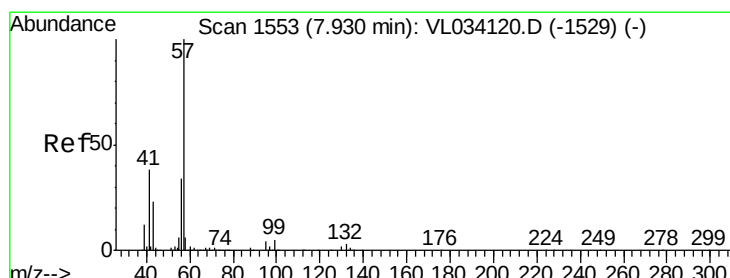
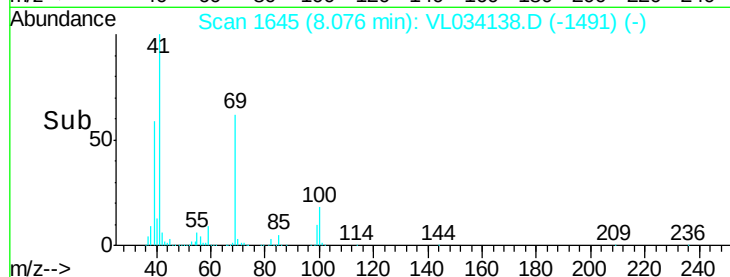
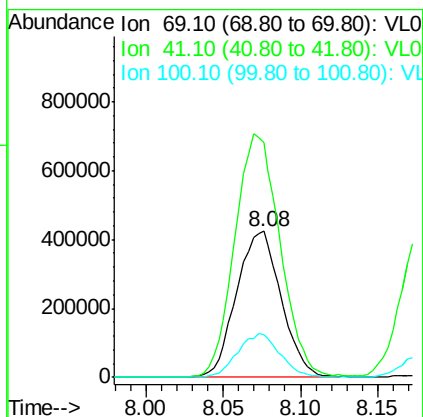
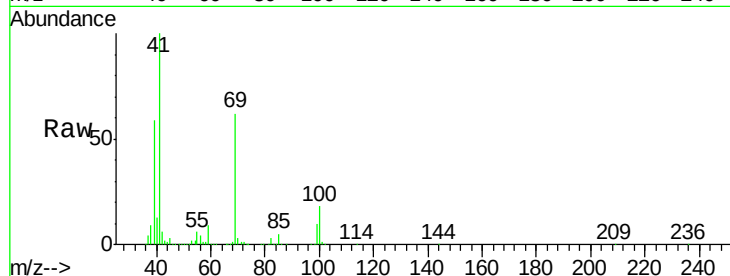
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	168.5	131.0	196.6
100	28.6	22.6	33.8

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 8.729 ppbv

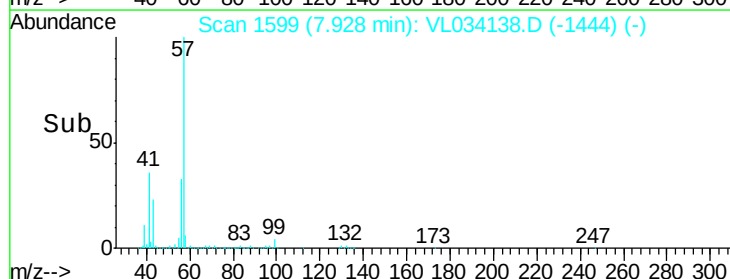
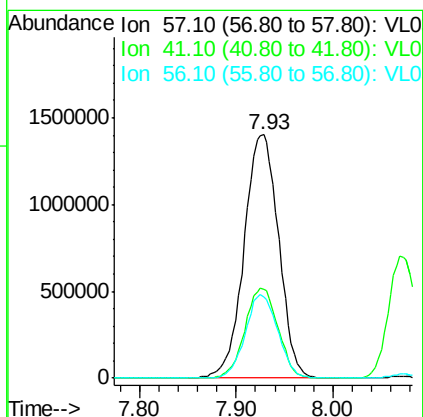
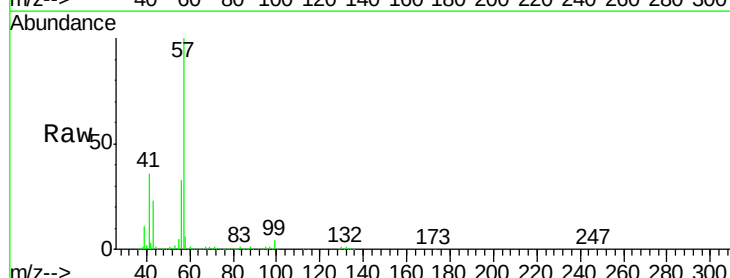
RT: 7.93 min Scan# 1599

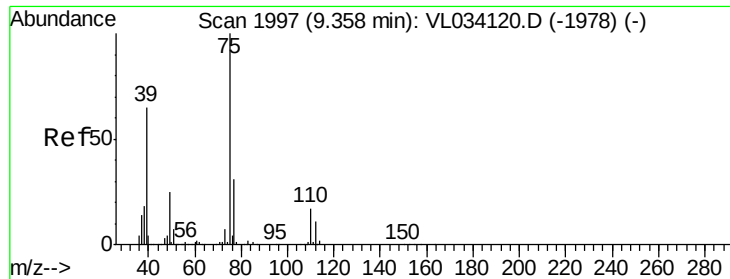
Delta R.T. -0.00 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.3	28.4	42.6
56	32.4	26.3	39.5





#45

t-1,3-Dichloropropene

Concen: 10.765 ppbv

RT: 9.35 min Scan# 2040

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1126371

Ion Ratio Lower Upper

75 100

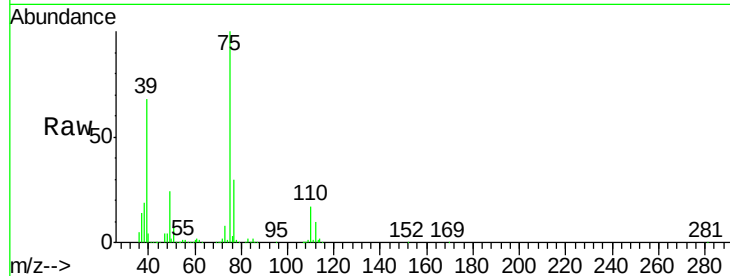
77 30.5 24.6 36.8

Manual Integrations

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.35

600000

500000

400000

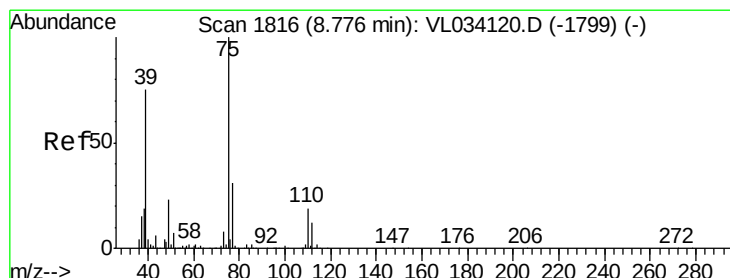
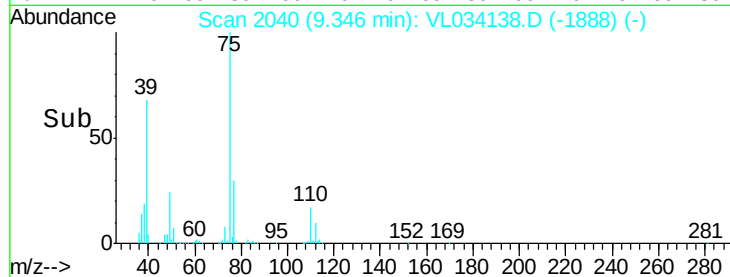
300000

200000

100000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.023 ppbv

RT: 8.77 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

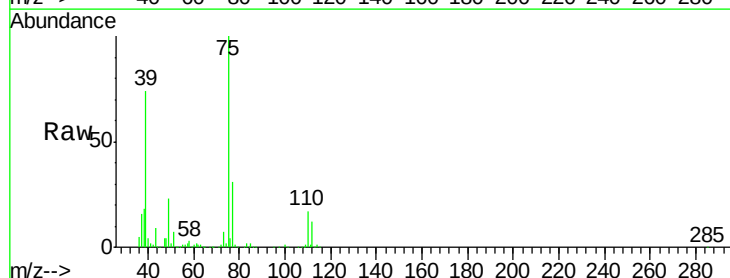
Tgt Ion: 75 Resp: 1275810

Ion Ratio Lower Upper

75 100

39 73.8 60.0 90.0

77 31.0 24.8 37.2



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

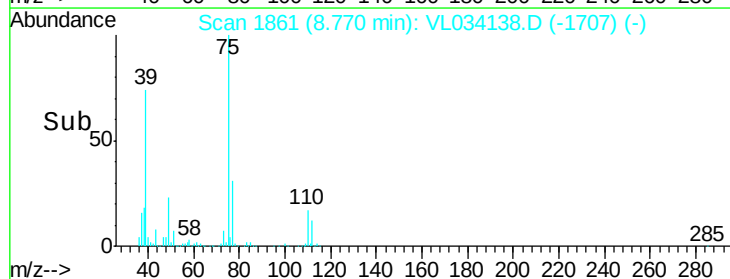
600000

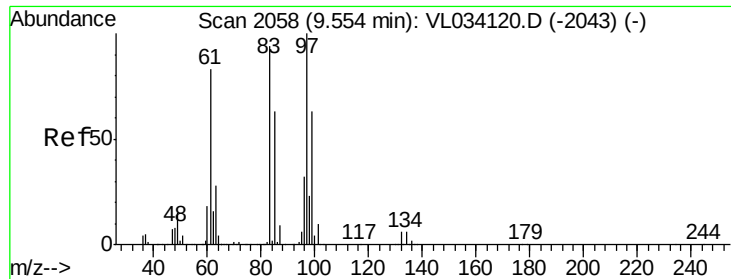
400000

200000

0

Time-->





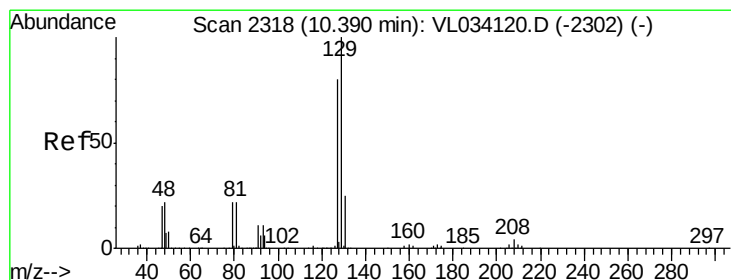
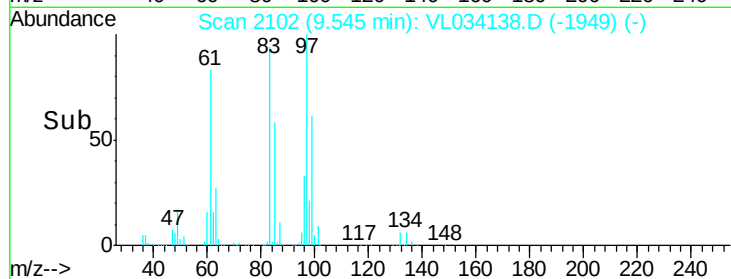
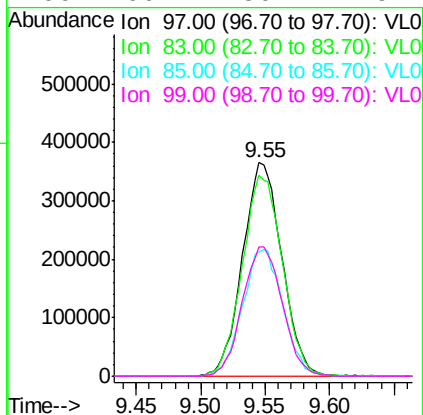
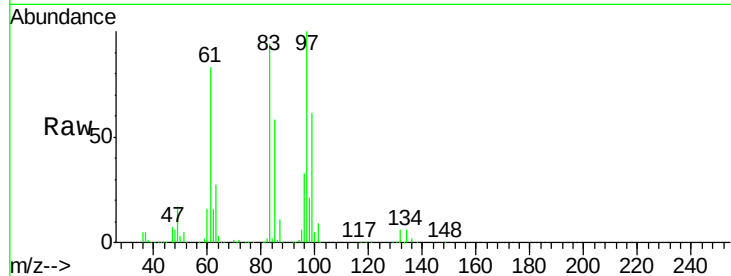
#47
 1,1,2-Trichloroethane
 Concen: 9.213 ppbv
 RT: 9.55 min Scan# 2102
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		776241		
83	94.2	74.9	112.3		
85	58.4	50.6	75.8		
99	60.7	50.2	75.2		

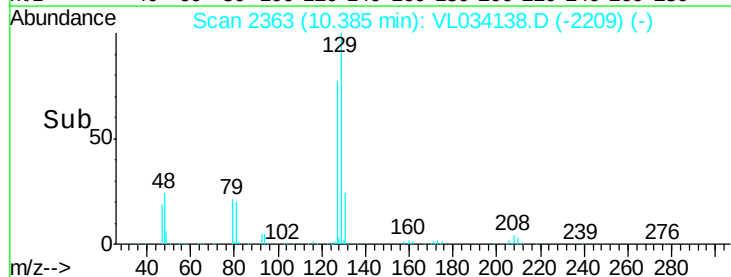
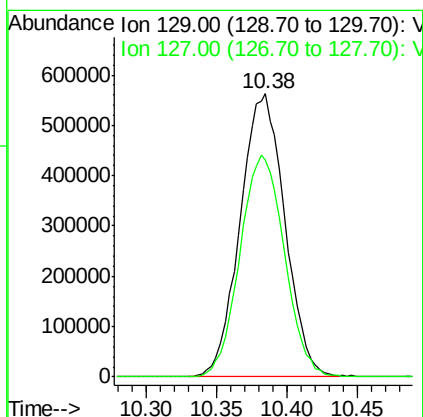
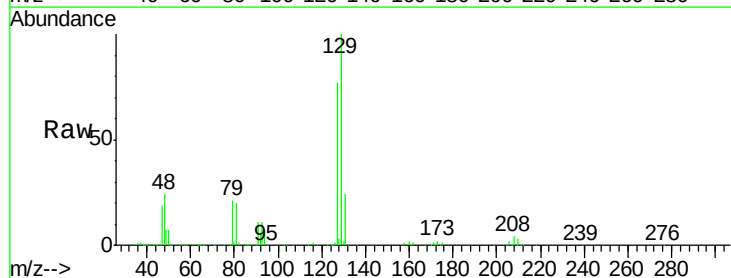
Manual Integrations
 APPROVED

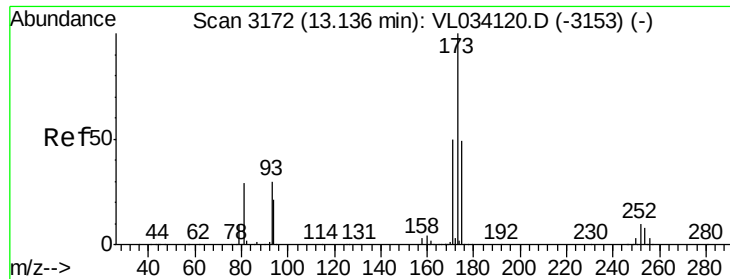
MMDadoda
 9/12/2019 5:16:45 AM



#48
 Dibromochloromethane
 Concen: 9.910 ppbv
 RT: 10.38 min Scan# 2363
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1245790		
127	78.2	40.2	120.6		





#49

Bromoform

Concen: 9.729 ppbv

RT: 13.13 min Scan# 3218

Delta R.T. -0.00 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1072315

Ion Ratio Lower Upper

173 100

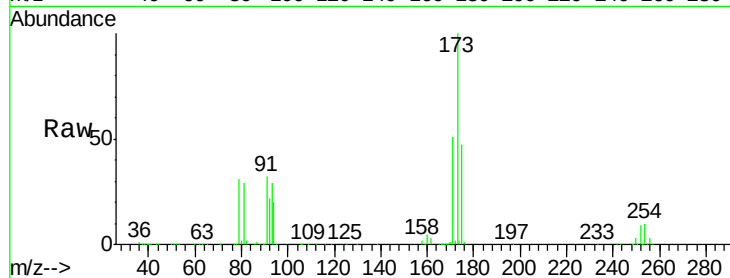
175 49.6 40.0 60.0

171 53.5 42.2 63.2

Manual Integrations
APPROVED

MMDadoda

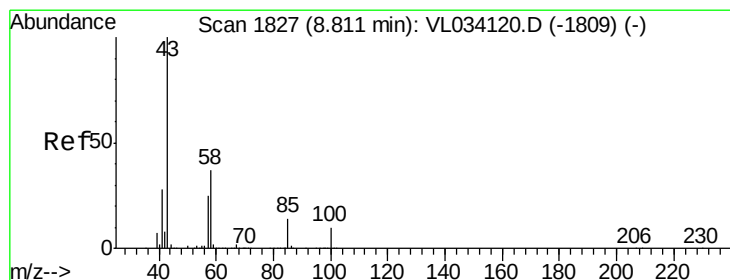
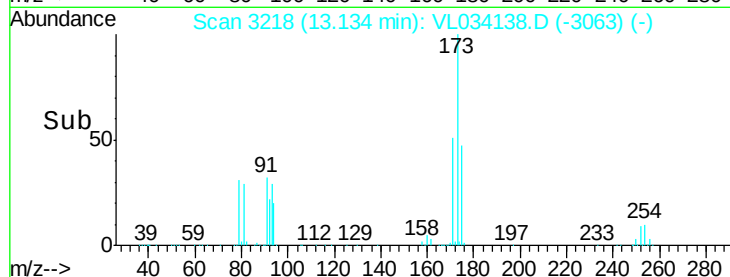
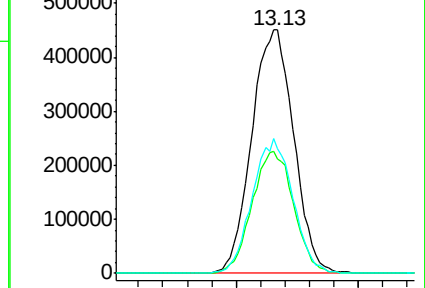
9/12/2019 5:16:45 AM



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: 8.941 ppbv

RT: 8.80 min Scan# 1871

Delta R.T. -0.01 min

Lab File: VL034138.D

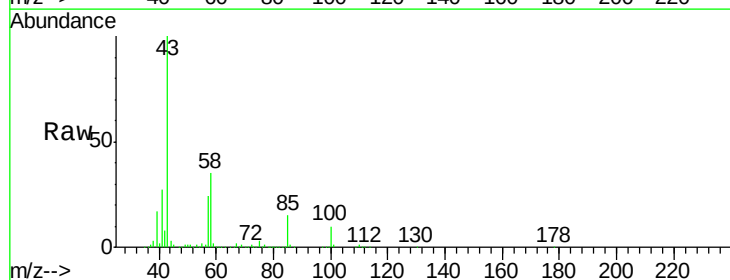
Acq: 10 Sep 2019 9:58

Tgt Ion: 43 Resp: 2479773

Ion Ratio Lower Upper

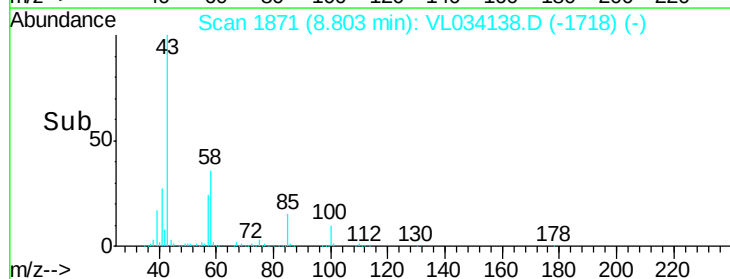
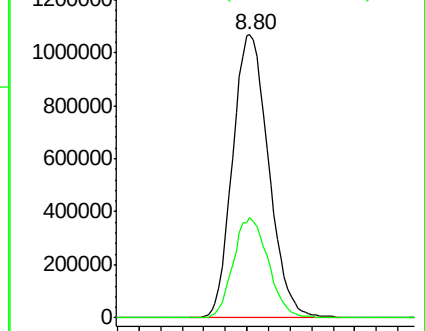
43 100

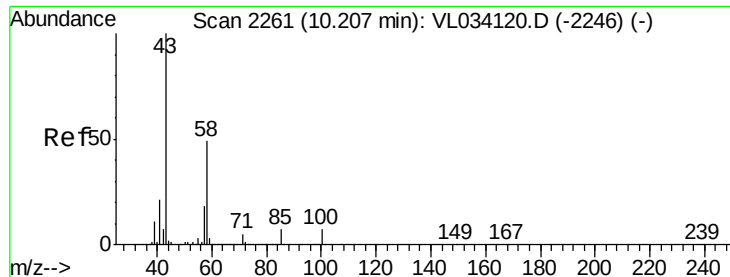
58 34.7 28.5 42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





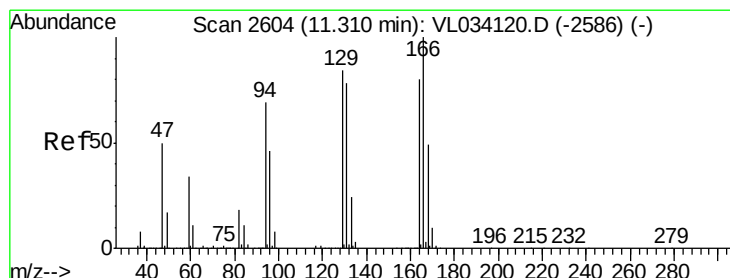
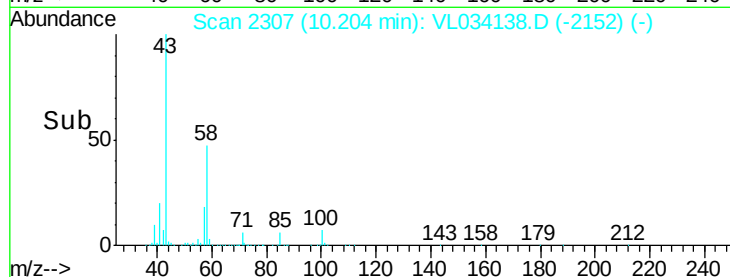
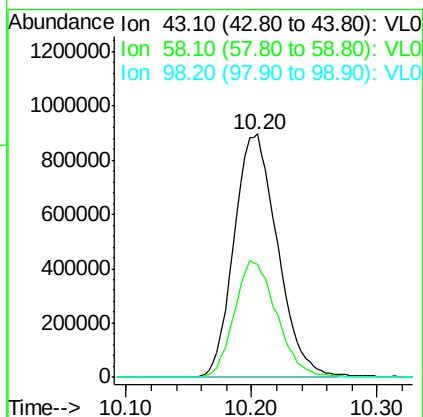
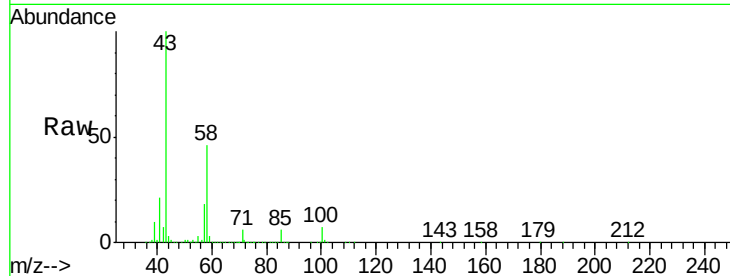
#51
2-Hexanone
Concen: 8.990 ppbv
RT: 10.20 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.8	38.2	57.2
98	0.1	0.1	0.1#

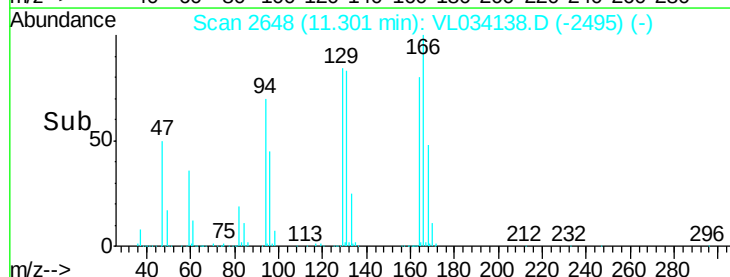
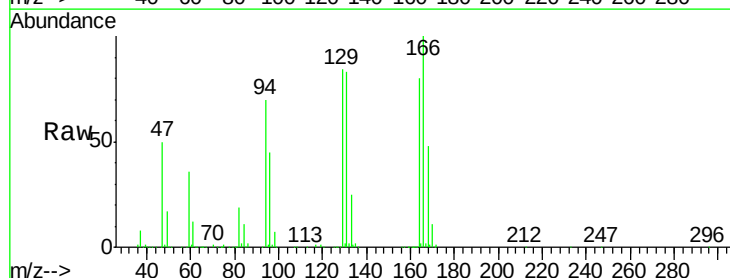
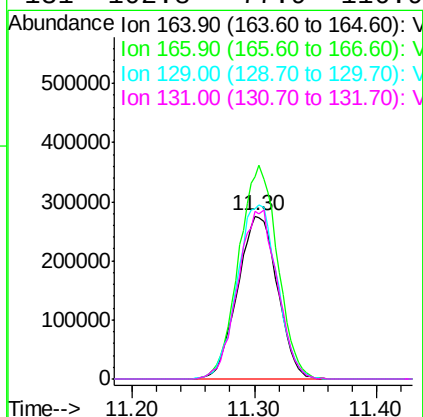
Manual Integrations
APPROVED

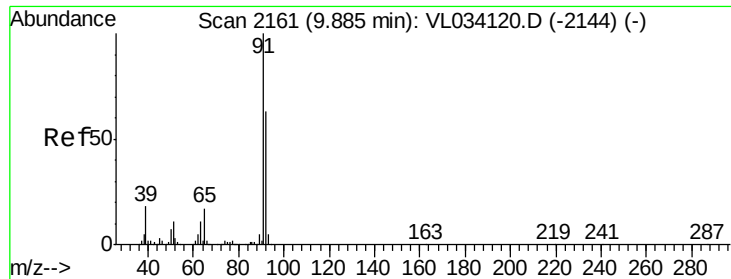
MMDadoda
9/12/2019 5:16:45 AM



#52
Tetrachloroethene
Concen: 8.114 ppbv
RT: 11.30 min Scan# 2648
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.2	99.5	149.3
129	104.6	83.6	125.4
131	102.8	77.9	116.9





#53

Toluene

Concen: 9.201 ppbv

RT: 9.88 min Scan# 2205

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2198903

Ion Ratio Lower Upper

91 100

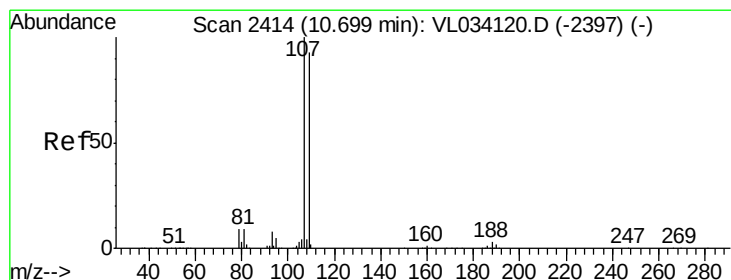
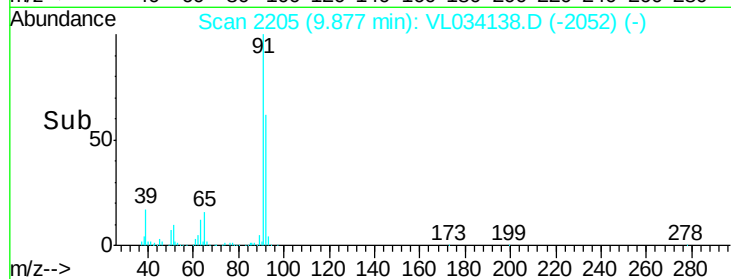
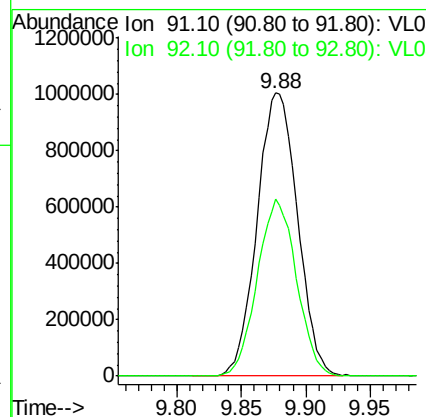
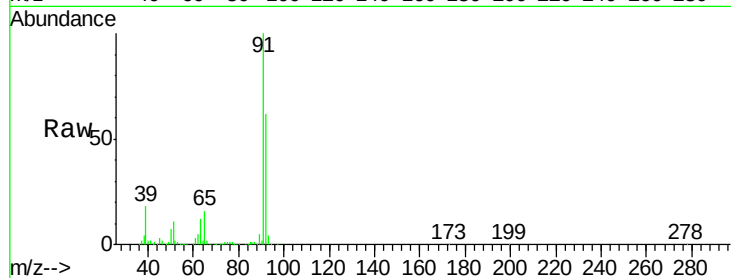
92 60.7 49.3 73.9

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:16:45 AM



#54

1,2-Dibromoethane

Concen: 9.255 ppbv

RT: 10.69 min Scan# 2458

Delta R.T. -0.01 min

Lab File: VL034138.D

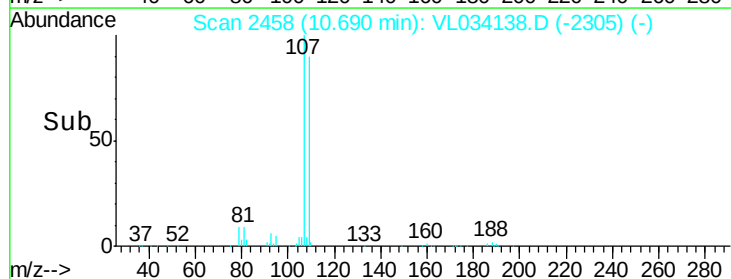
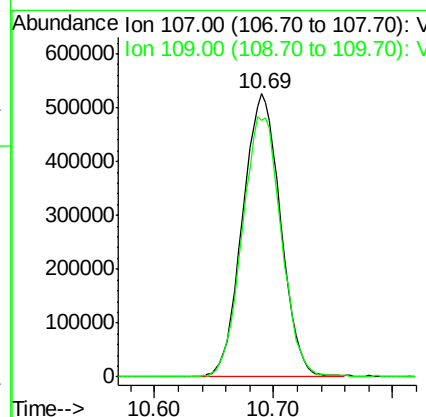
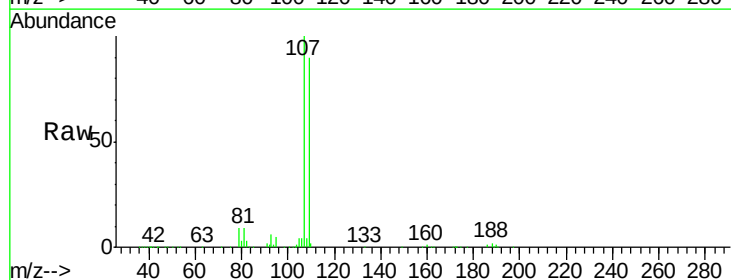
Acq: 10 Sep 2019 9:58

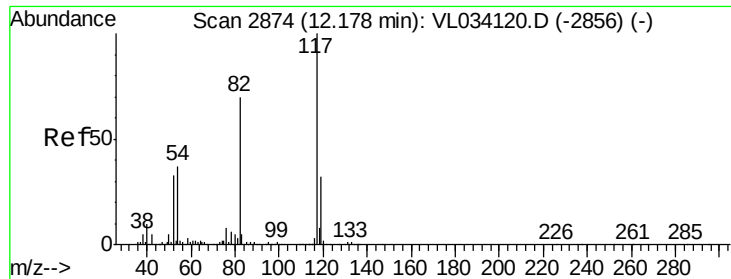
Tgt Ion: 107 Resp: 1161605

Ion Ratio Lower Upper

107 100

109 90.4 74.5 111.7





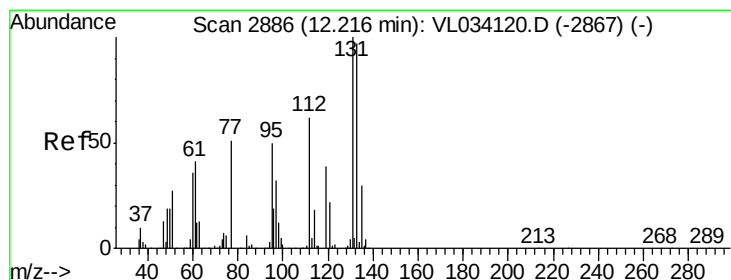
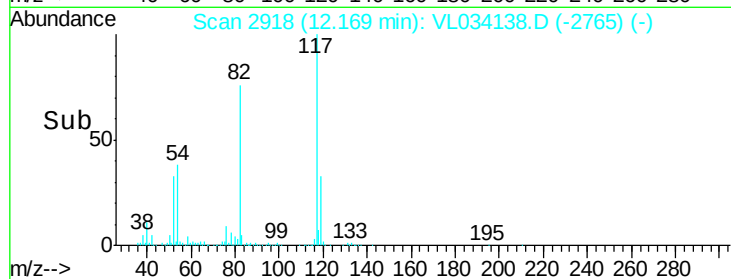
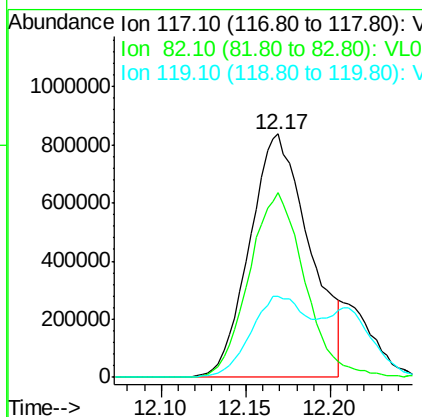
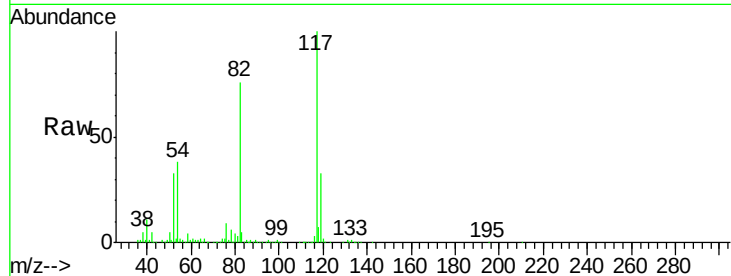
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.17 min Scan# 2918
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.0	55.8	83.6
119	54.7	43.1	64.7

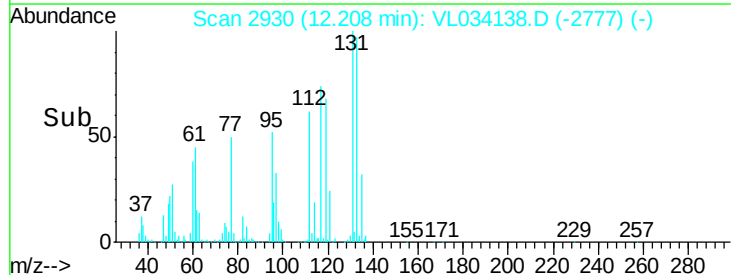
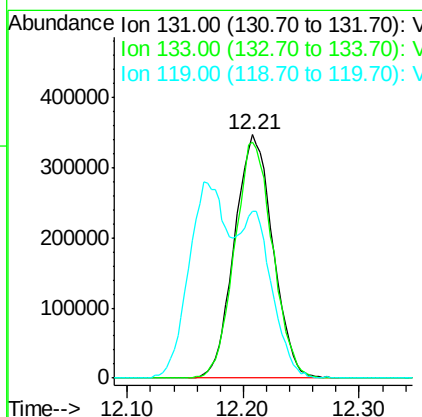
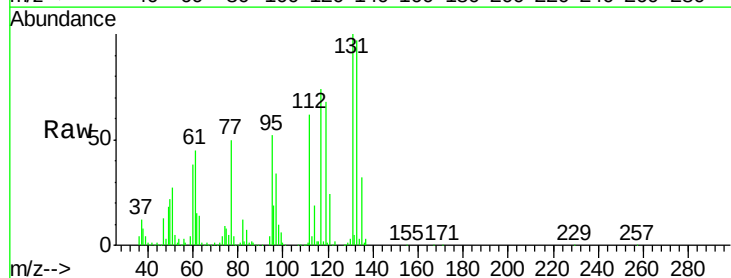
Manual Integrations
APPROVED

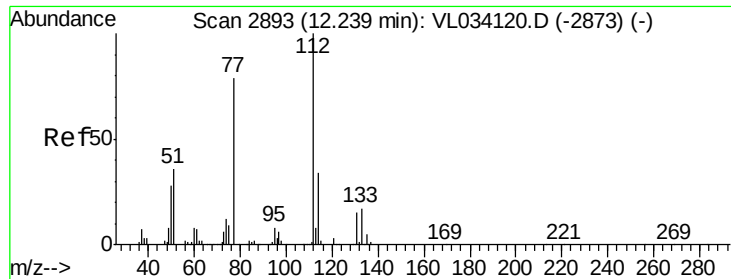
MMDadoda
9/12/2019 5:16:45 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.013 ppbv
RT: 12.21 min Scan# 2930
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.1	75.8	113.6
119	59.3	114.7	172.1#





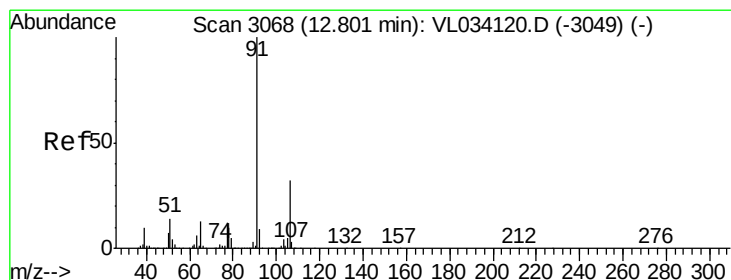
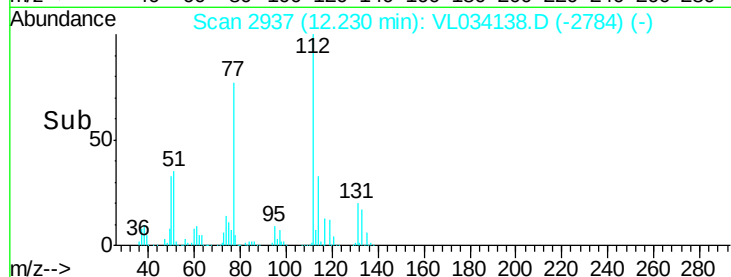
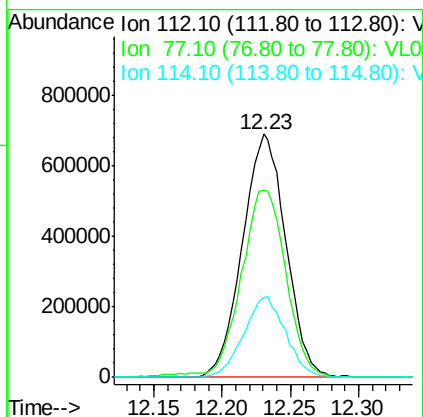
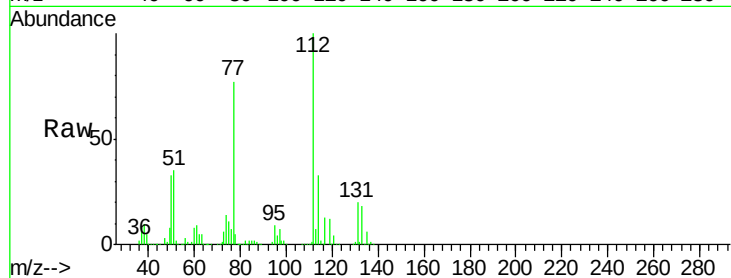
#57
Chlorobenzene
Concen: 8.580 ppbv
RT: 12.23 min Scan# 2937
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	76.7	64.4	96.6
114	32.7	30.3	37.1

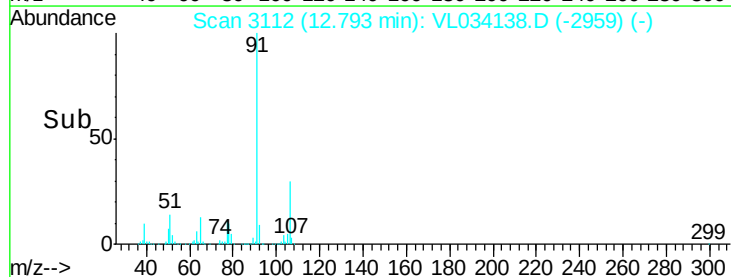
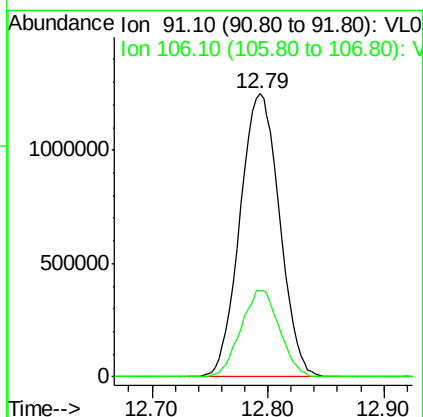
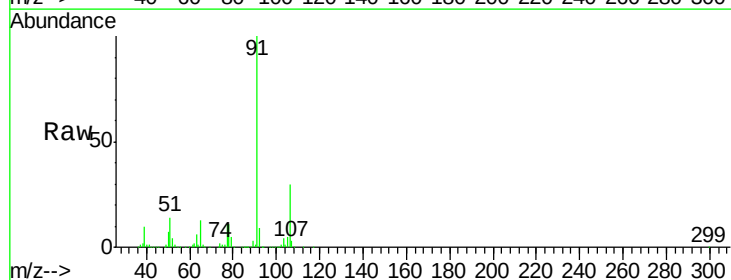
Manual Integrations
APPROVED

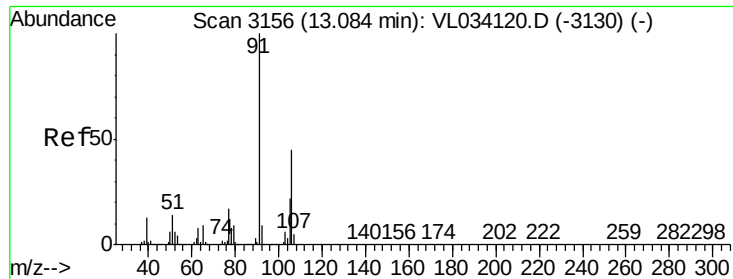
MMDadoda
9/12/2019 5:16:45 AM



#58
Ethyl Benzene
Concen: 8.767 ppbv
RT: 12.79 min Scan# 3112
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.4	25.3	37.9





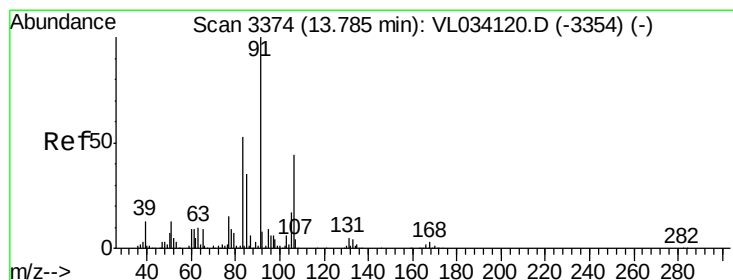
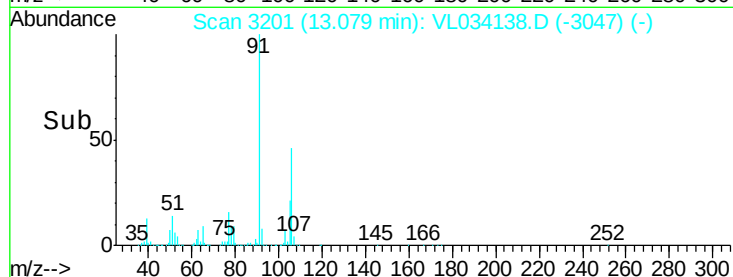
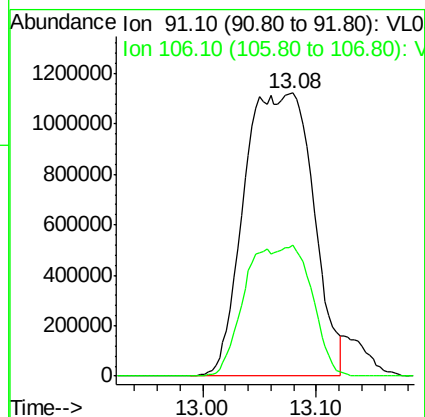
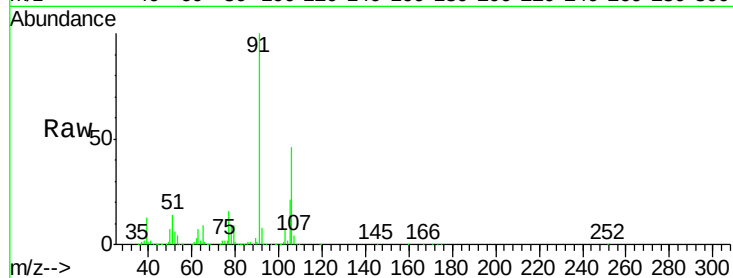
#59
m/p-Xylene
Concen: 17.133 ppbv m
RT: 13.08 min Scan# 3201
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4725089
Ion Ratio Lower Upper
91 100
106 44.3 35.4 53.2

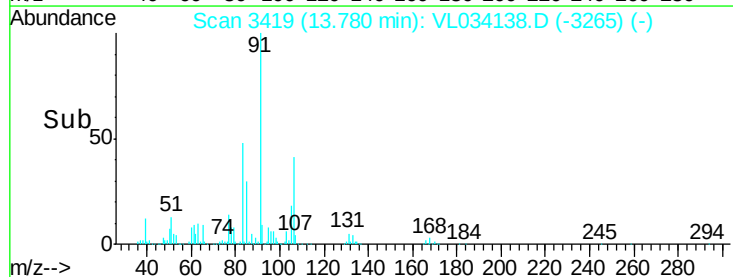
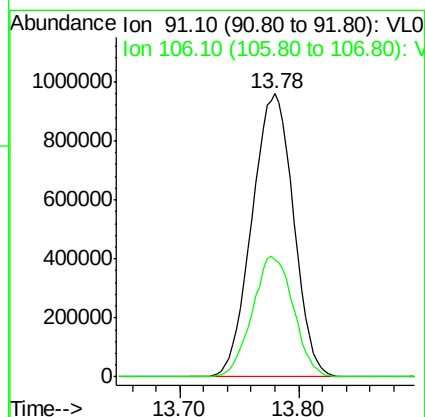
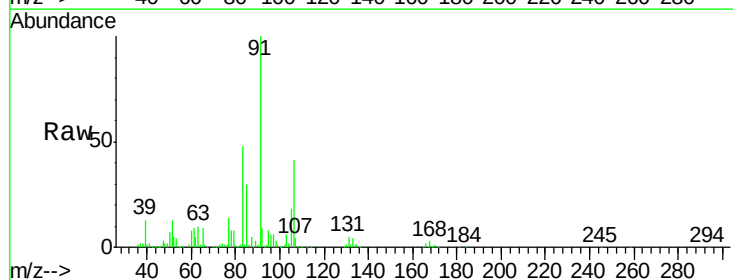
Manual Integrations
APPROVED

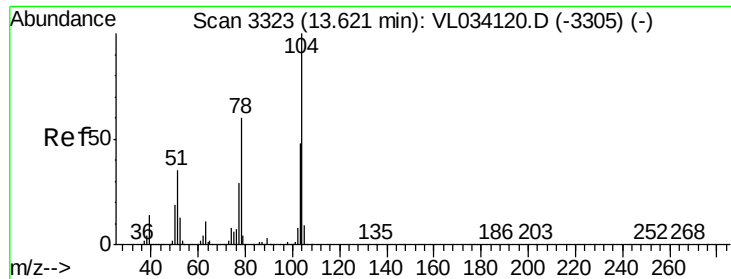
MMDadoda
9/12/2019 5:16:45 AM



#60
o-Xylene
Concen: 8.443 ppbv
RT: 13.78 min Scan# 3419
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Tgt Ion: 91 Resp: 2319149
Ion Ratio Lower Upper
91 100
106 42.2 21.4 64.3





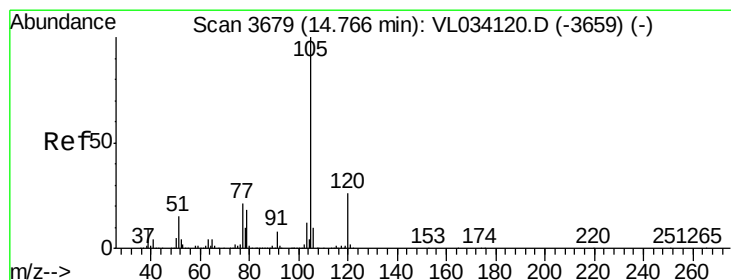
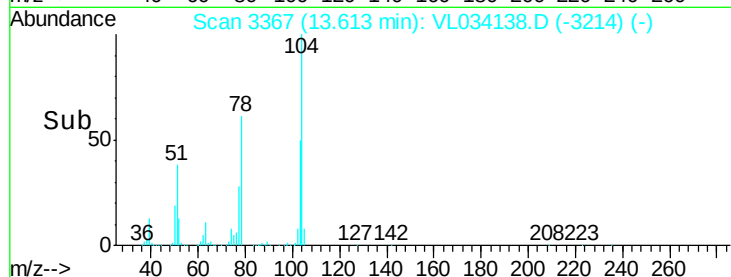
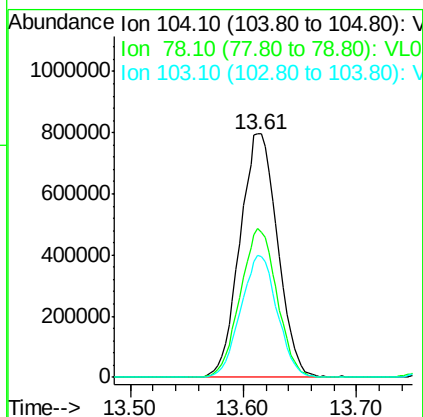
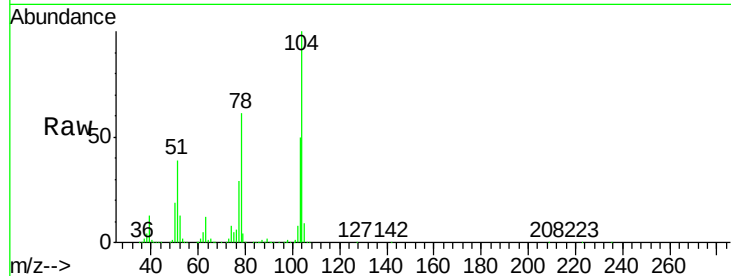
#61
Stvrene
Concen: 8.967 ppbv
RT: 13.61 min Scan# 3367
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.8	47.8	71.6
103	48.5	38.7	58.1

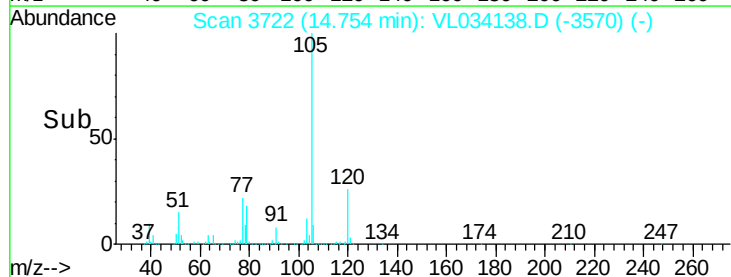
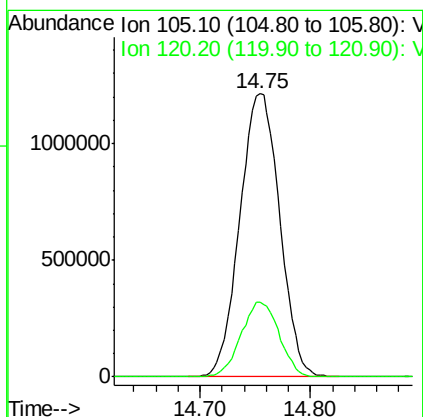
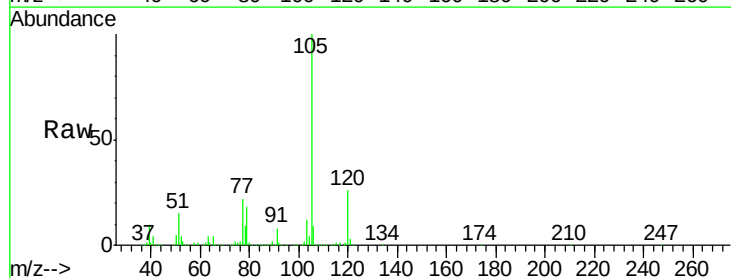
Manual Integrations
APPROVED

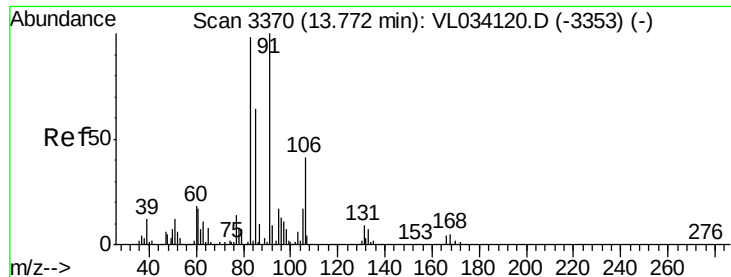
MMDadoda
9/12/2019 5:16:45 AM



#62
Isopropylbenzene
Concen: 8.496 ppbv
RT: 14.75 min Scan# 3722
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.6	31.0





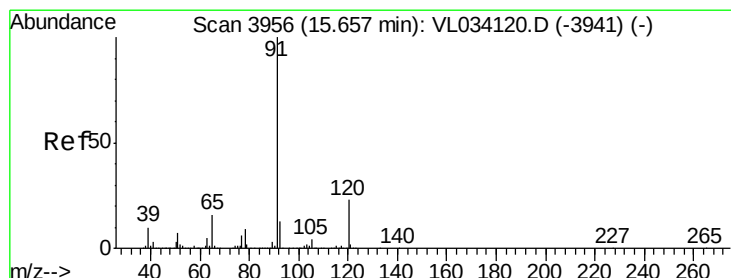
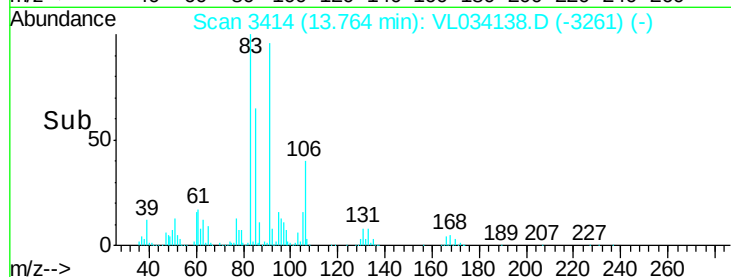
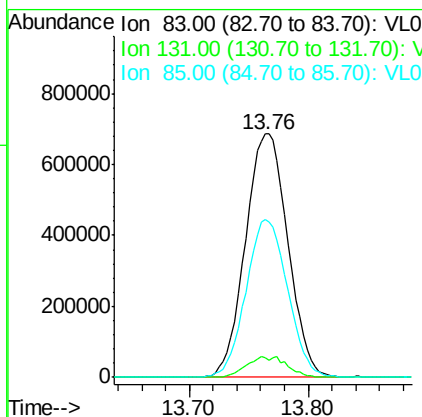
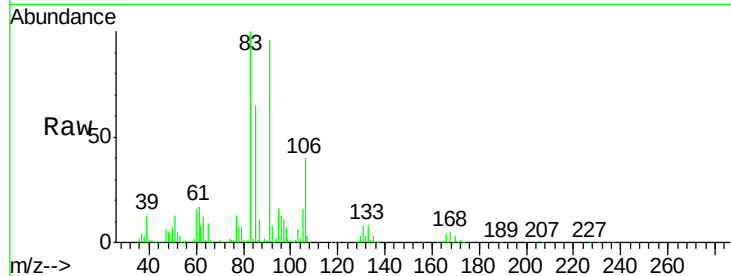
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.573 ppbv
 RT: 13.76 min Scan# 3414
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	1695235
Ion Ratio	Lower	Upper	
83	100		
131	8.3	4.3	12.8
85	63.5	32.5	97.5

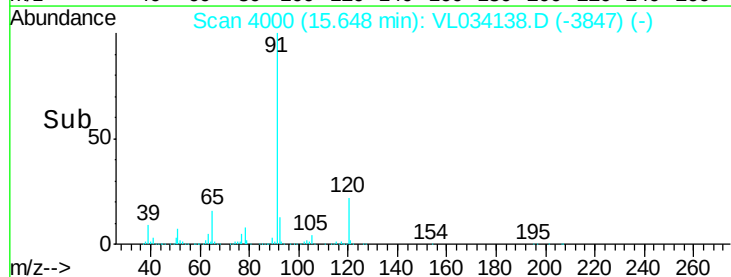
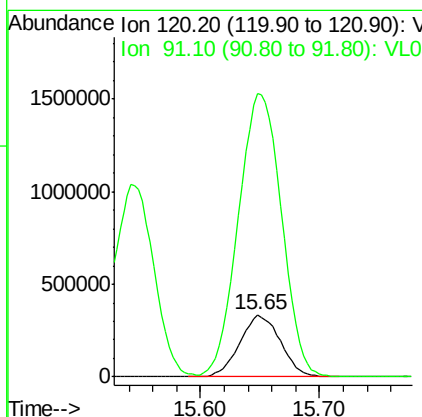
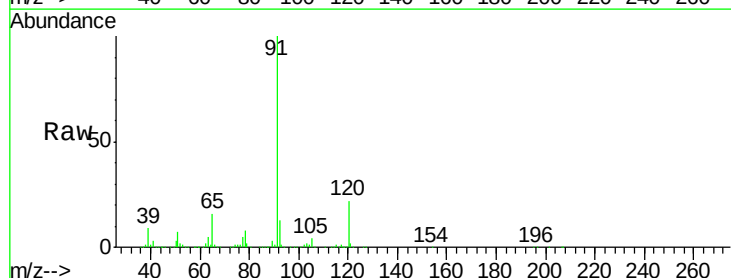
Manual Integrations
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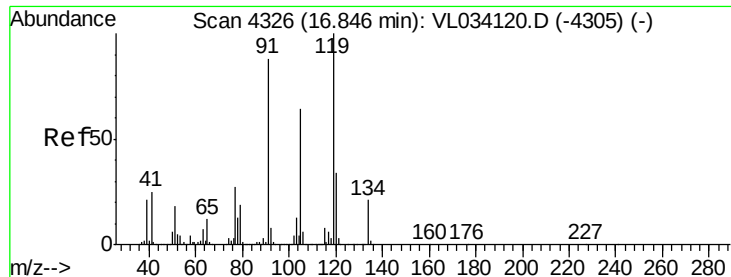
MMDadoda
 9/12/2019 5:16:45 AM



#64
 n-propylbenzene
 Concen: 8.805 ppbv
 RT: 15.65 min Scan# 4000
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	120	Resp	788330
Ion Ratio	Lower	Upper	
120	100		
91	486.1	376.8	565.2





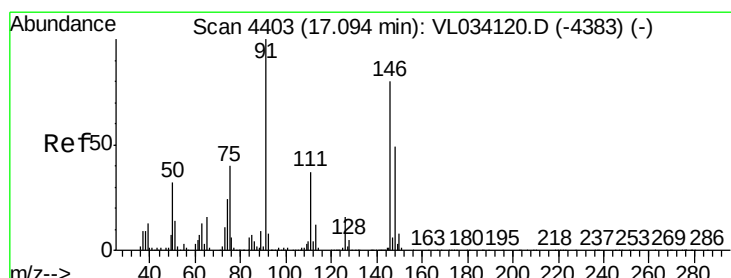
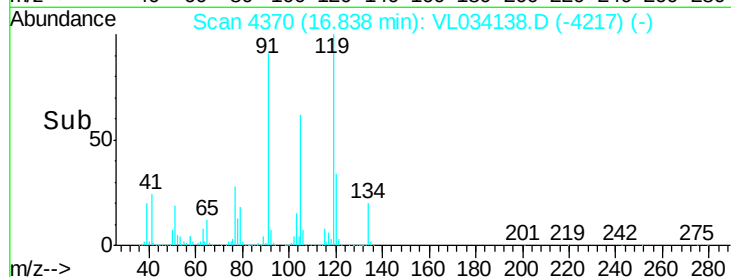
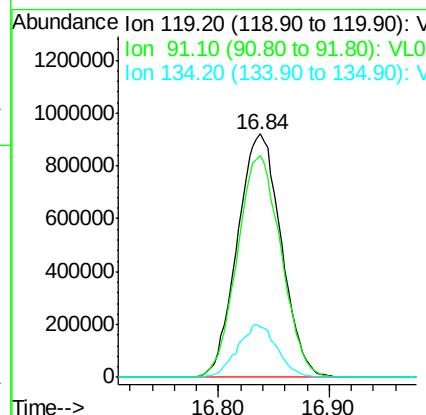
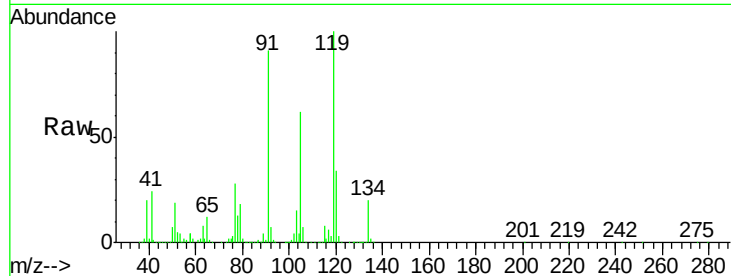
#65
 tert-Butylbenzene
 Concen: 8.183 ppbv
 RT: 16.84 min Scan# 4370
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
119	100			
91	91.8	72.8	109.2	
134	19.6	15.8	23.8	

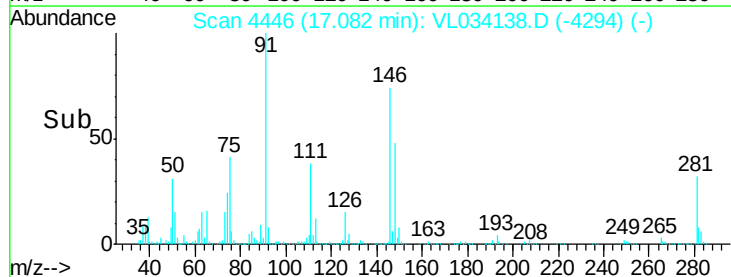
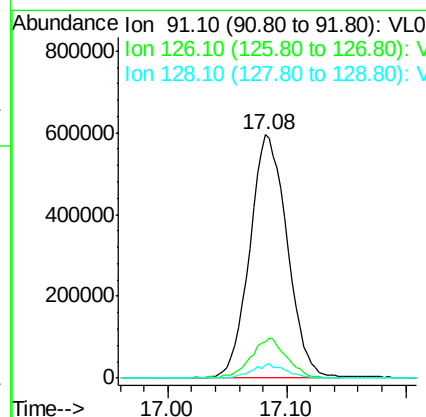
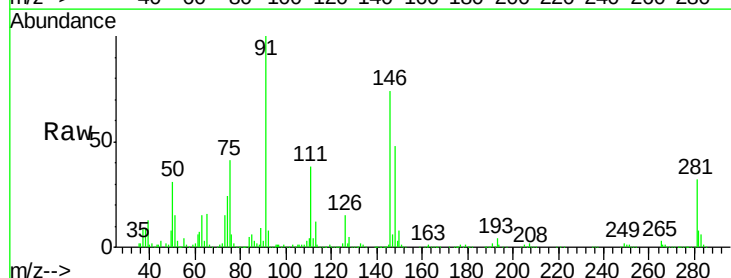
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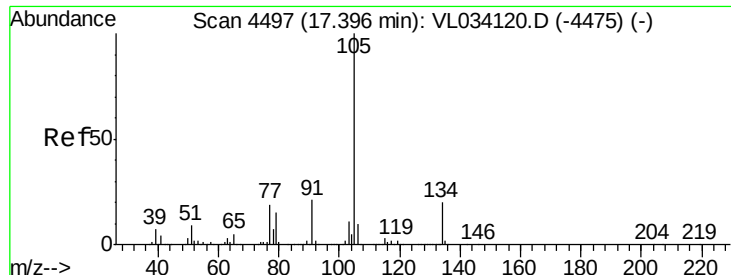
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#66
 Benzyl Chloride
 Concen: 11.372 ppbv
 RT: 17.08 min Scan# 4446
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
126	16.0	13.7	20.5	
128	5.2	4.2	6.4	





#67

sec-Butylbenzene

Concen: 8.274 ppbv

RT: 17.39 min Scan# 4541

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 3669961

Ion Ratio Lower Upper

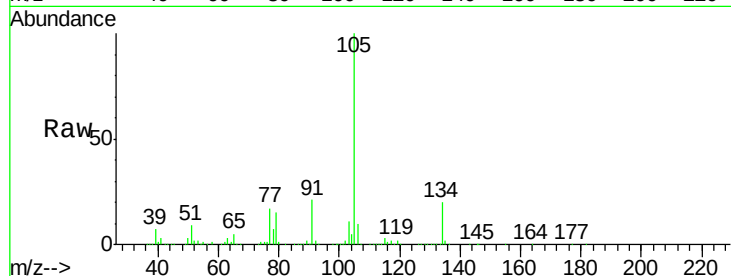
105 100

134 18.2 15.0 22.4

Manual Integrations
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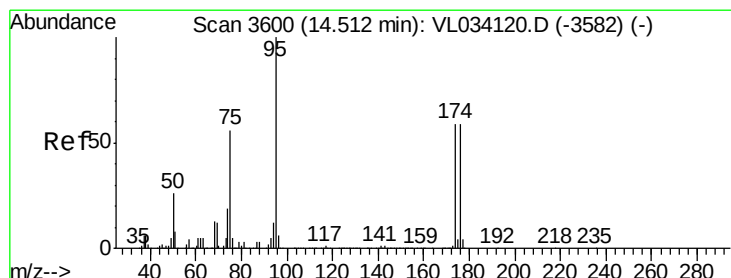
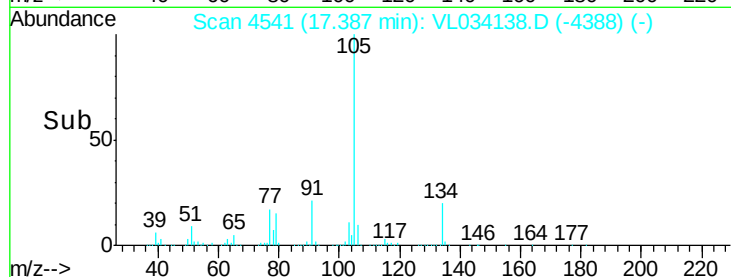
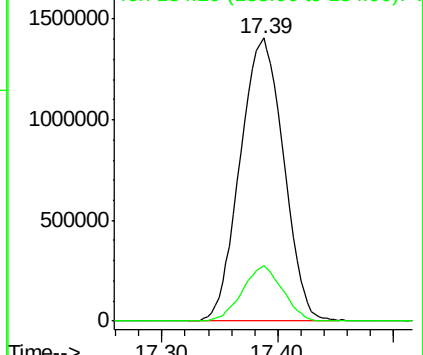
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.666 ppbv

RT: 14.51 min Scan# 3645

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

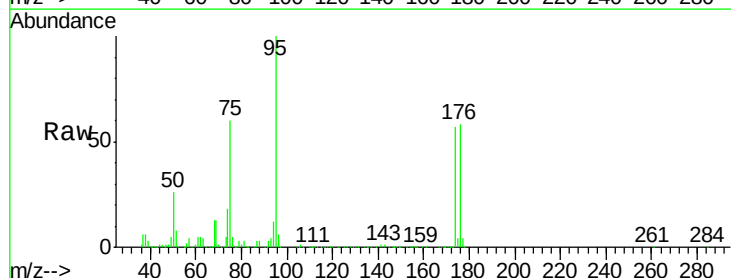
Tgt Ion: 95 Resp: 1629176

Ion Ratio Lower Upper

95 100

174 60.0 48.1 72.1

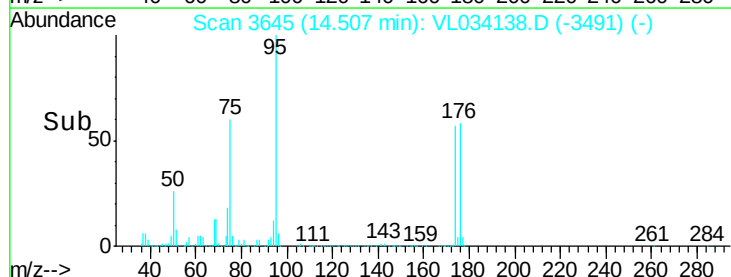
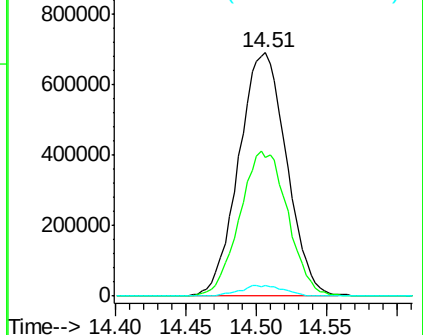
175 4.2 3.5 5.3

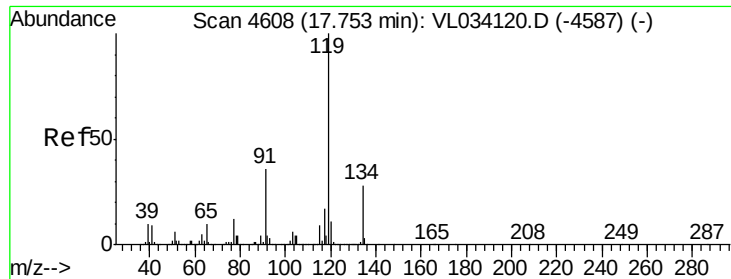


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





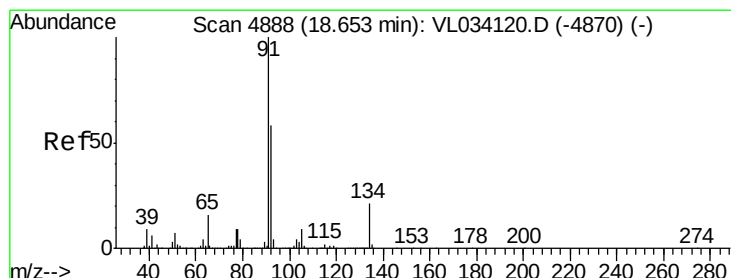
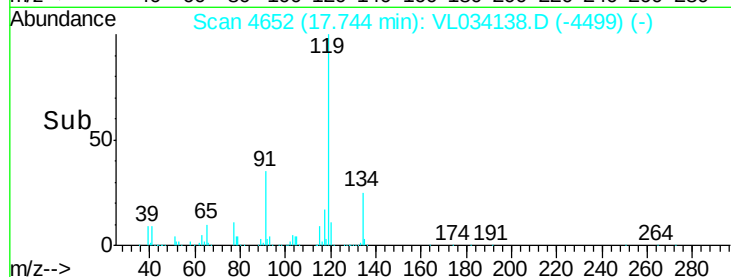
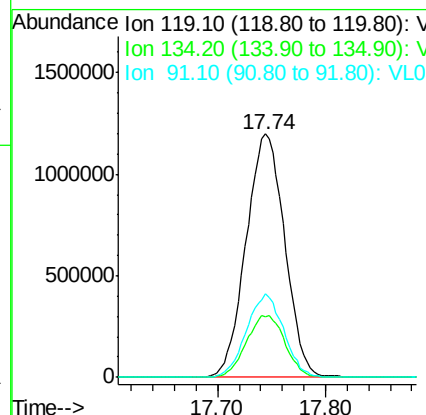
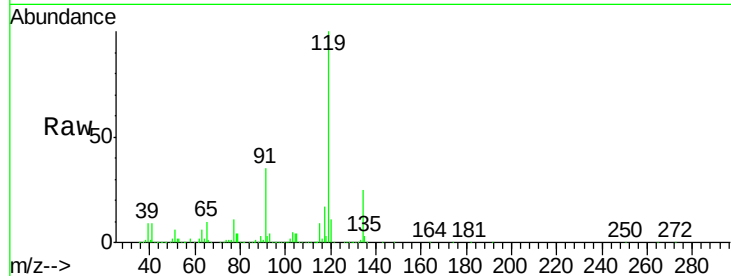
#69
 p-Isopropyltoluene
 Concen: 8.391 ppbv
 RT: 17.74 min Scan# 4652
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.8	31.2
91	33.2	27.2	40.8

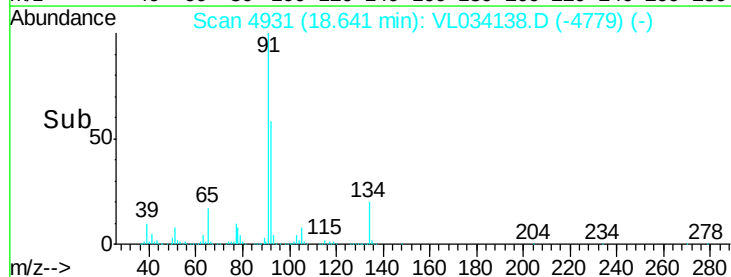
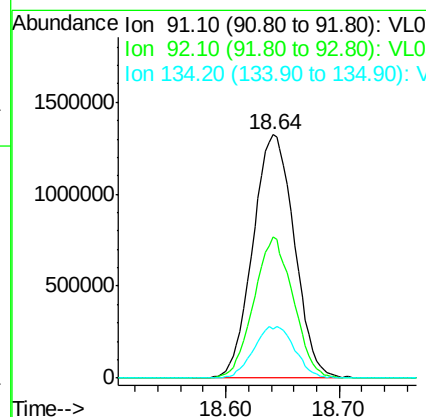
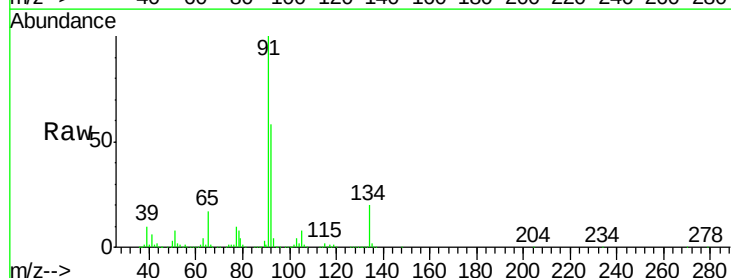
Manual Integrations
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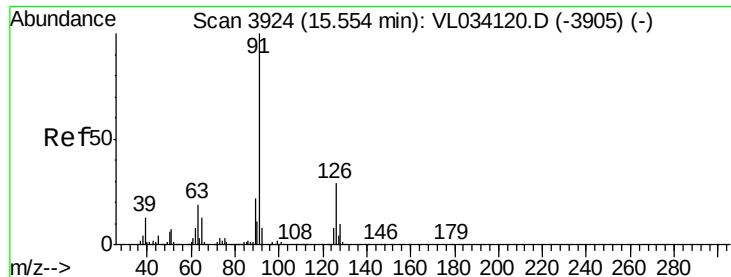
MMDadoda
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#70
 n-Butylbenzene
 Concen: 8.317 ppbv
 RT: 18.64 min Scan# 4931
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	45.3	67.9
134	21.1	17.4	26.0





#71

2-Chlorotoluene

Concen: 8.585 ppbv

RT: 15.54 min Scan# 3967

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2506527

Ion Ratio Lower Upper

91 100

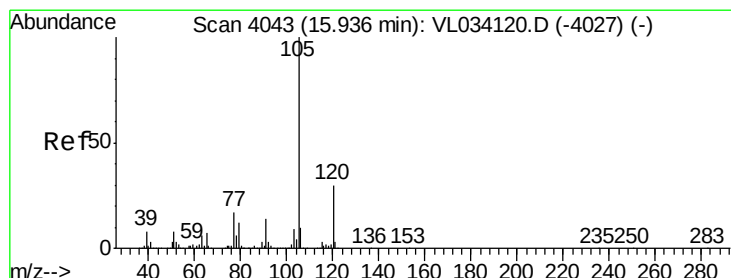
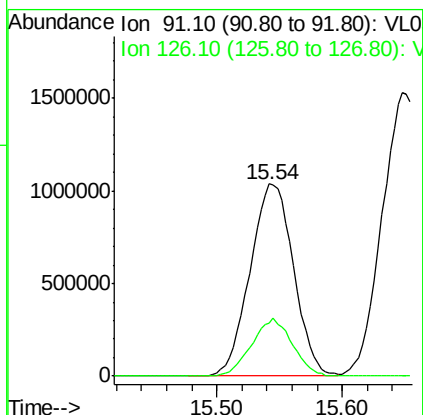
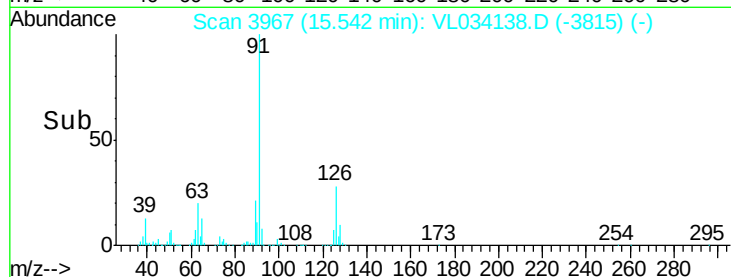
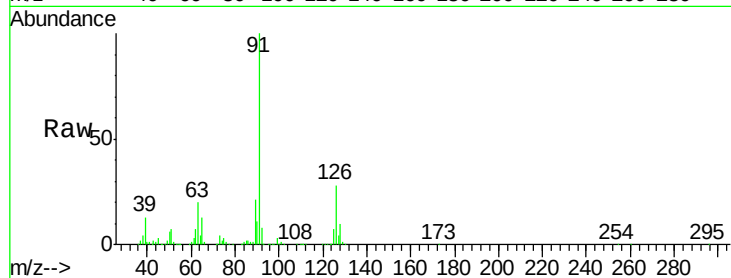
126 28.2 11.4 45.4

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#72

4-Ethyltoluene

Concen: 8.750 ppbv

RT: 15.93 min Scan# 4088

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Tgt Ion: 105 Resp: 2711654

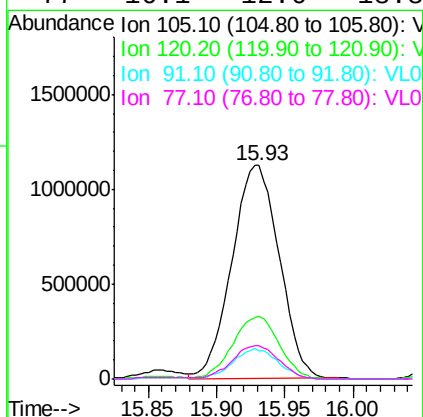
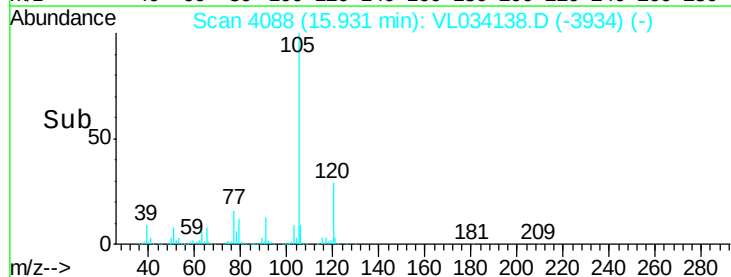
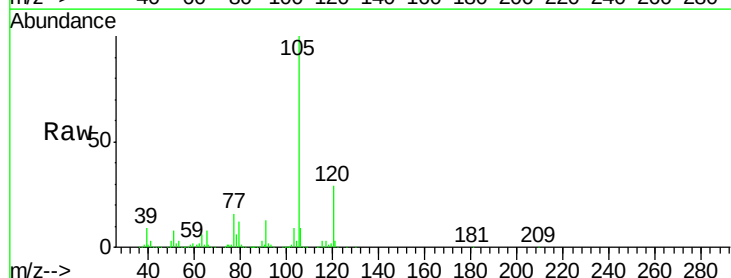
Ion Ratio Lower Upper

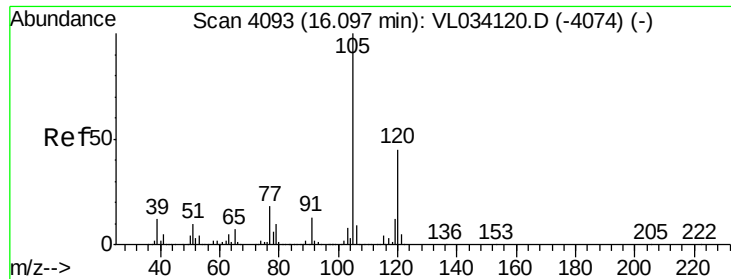
105 100

120 28.8 23.8 35.6

91 13.5 11.4 17.0

77 16.1 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 8.517 ppbv

RT: 16.09 min Scan# 4137

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:105 Resp: 2565392

Ion Ratio Lower Upper

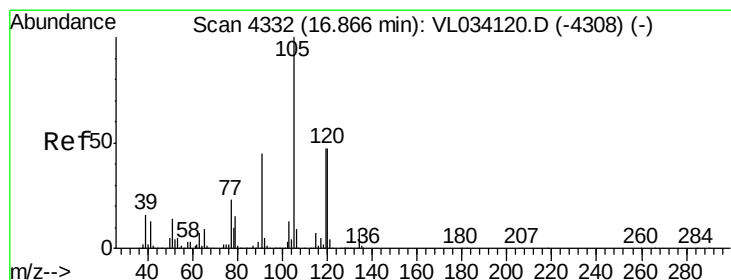
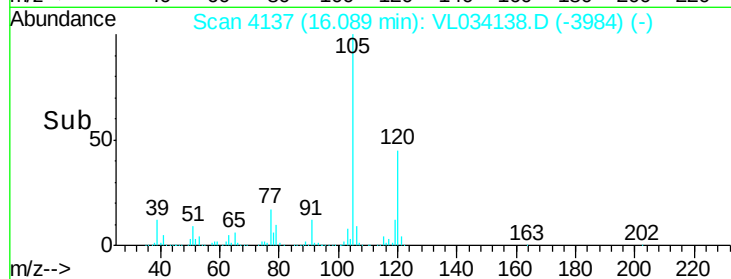
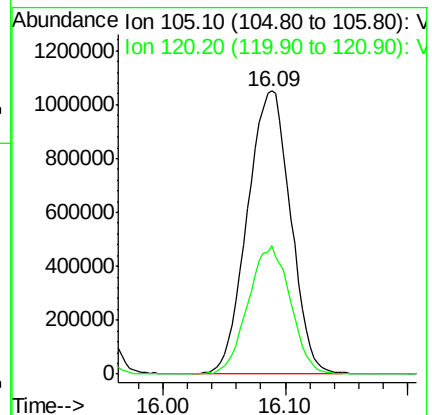
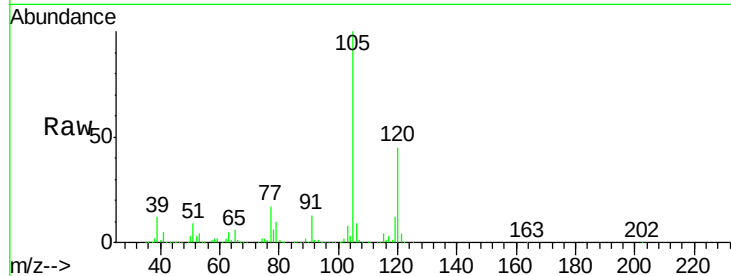
105 100

120 45.4 35.8 53.8

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#74

1,2,4-Trimethylbenzene

Concen: 8.139 ppbv

RT: 16.86 min Scan# 4376

Delta R.T. -0.01 min

Lab File: VL034138.D

Acq: 10 Sep 2019 9:58

Tgt Ion:105 Resp: 2524322

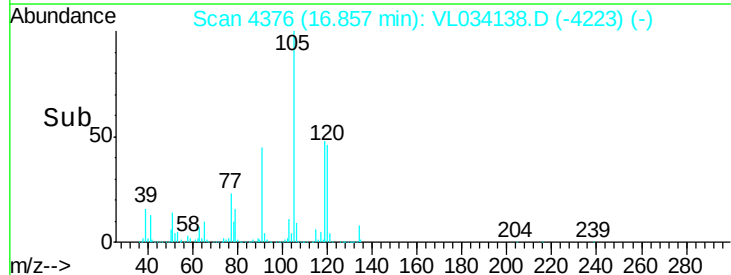
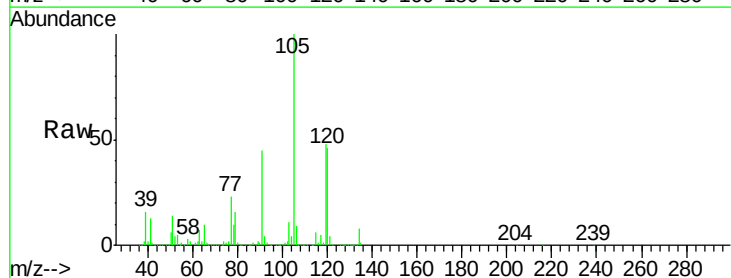
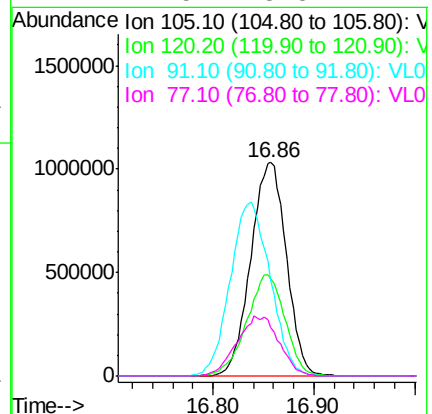
Ion Ratio Lower Upper

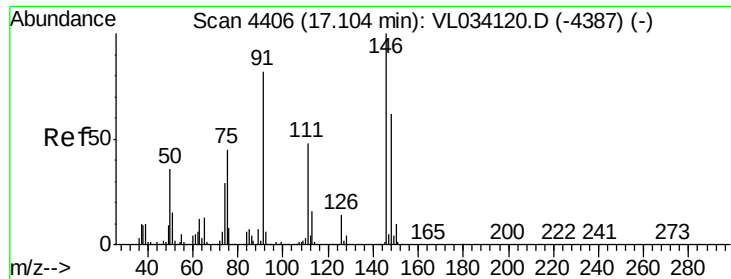
105 100

120 45.9 37.7 56.5

91 44.7 36.2 54.2

77 22.5 18.5 27.7





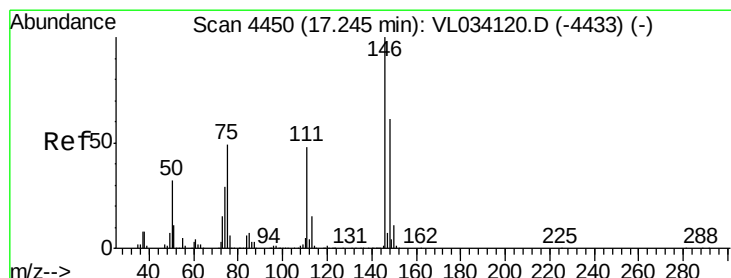
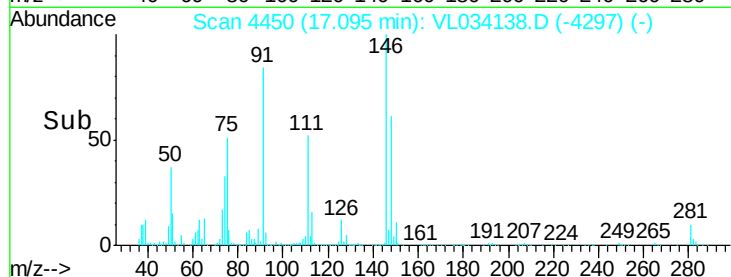
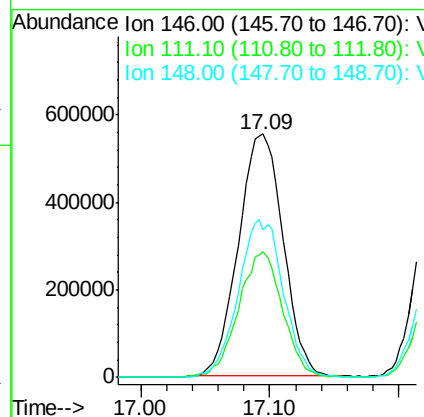
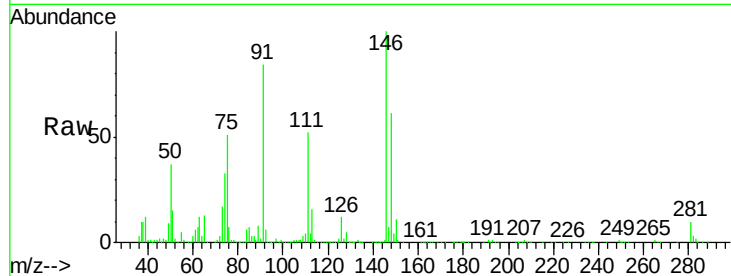
#75
 1,3-Dichlorobenzene
 Concen: 8.138 ppbv
 RT: 17.09 min Scan# 4450
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.2	24.9	74.7
148	65.9	32.5	97.5

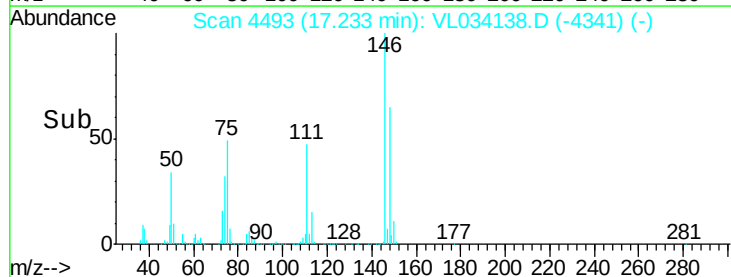
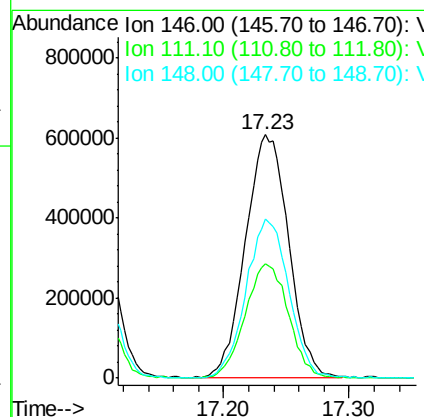
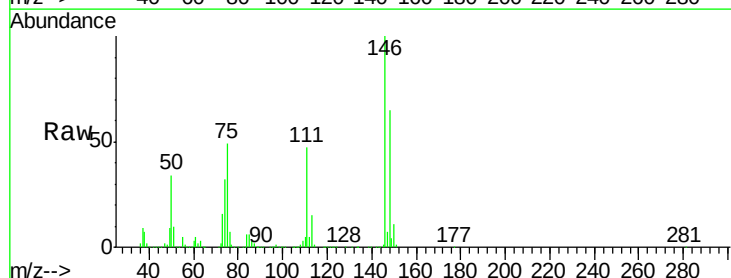
Manual Integrations
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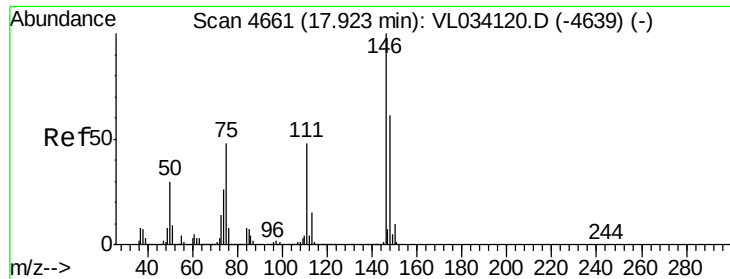
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#76
 1,4-Dichlorobenzene
 Concen: 8.408 ppbv
 RT: 17.23 min Scan# 4493
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.4	24.3	72.8
148	65.3	32.6	98.0





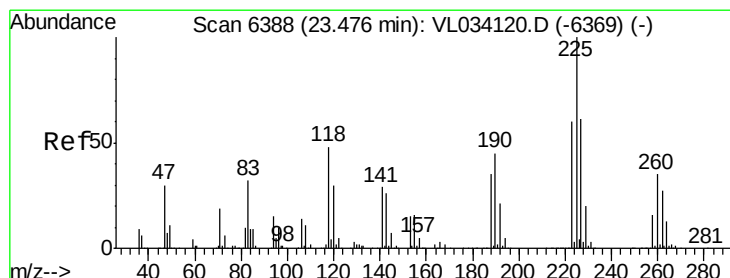
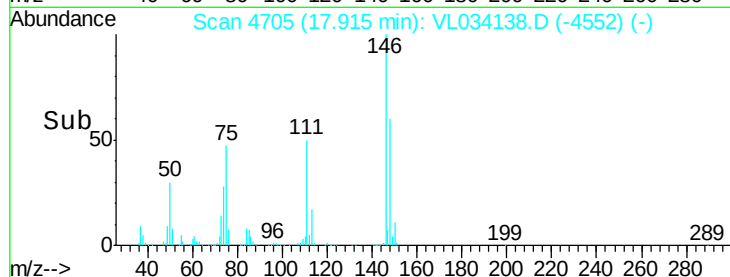
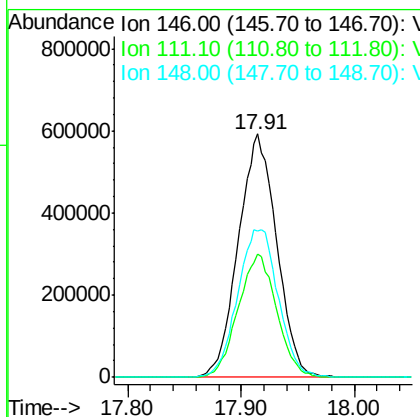
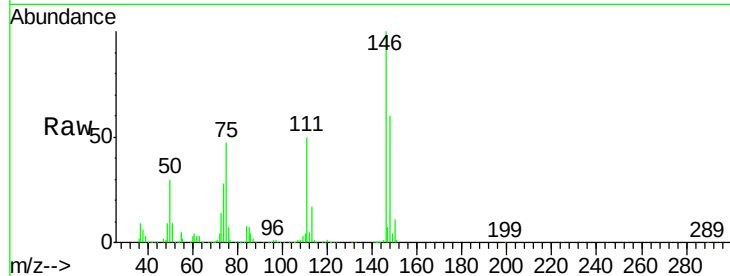
#77
 1,2-Dichlorobenzene
 Concen: 8.289 ppbv
 RT: 17.91 min Scan# 4705
 Delta R.T. -0.01 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.9	25.1	75.4
148	64.6	32.0	96.2

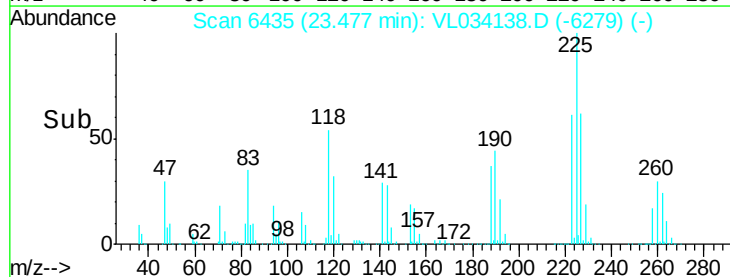
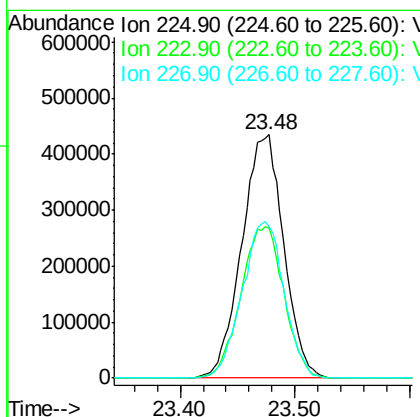
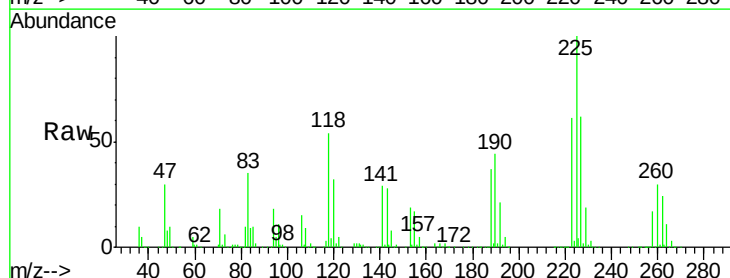
Manual Integrations
 APPROVED

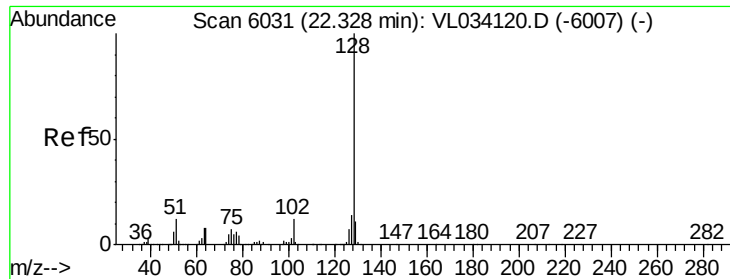
MMDadoda
 9/12/2019 5:16:45 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.630 ppbv m
 RT: 23.48 min Scan# 6435
 Delta R.T. 0.00 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.3	75.5
227	64.4	50.9	76.3





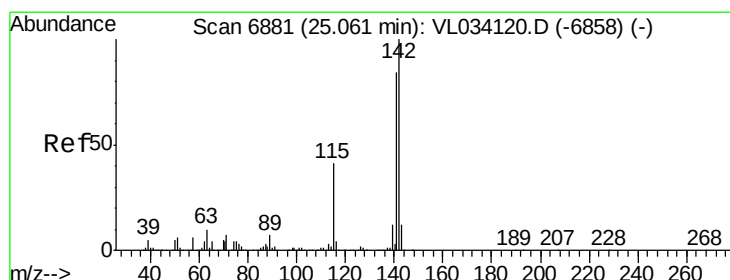
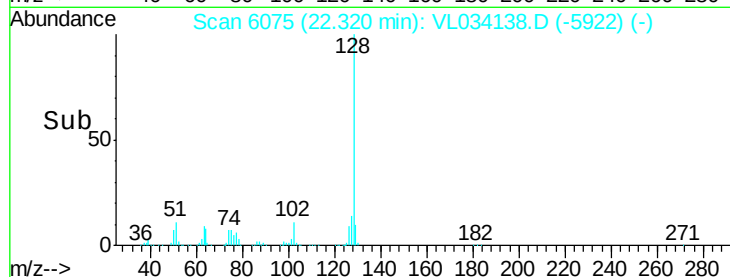
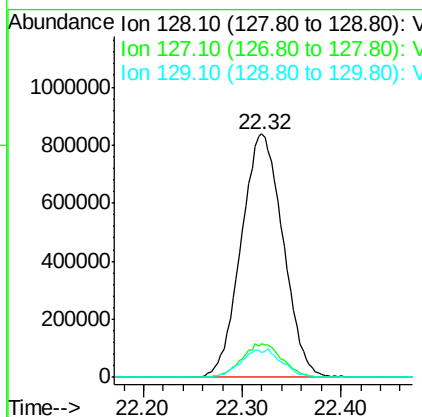
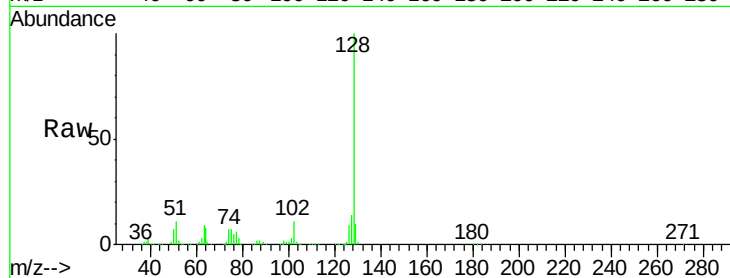
#79
Naphthalene
Concen: 8.764 ppbv
RT: 22.32 min Scan# 6075
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.9	16.3
129	10.1	8.5	12.7

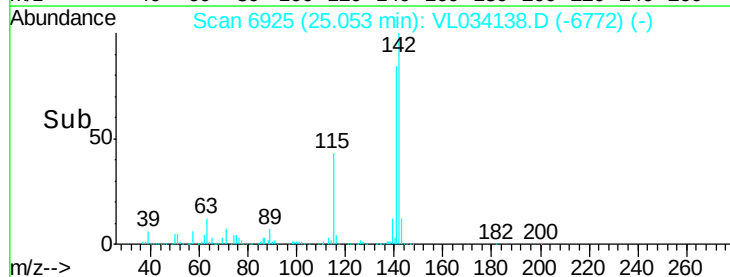
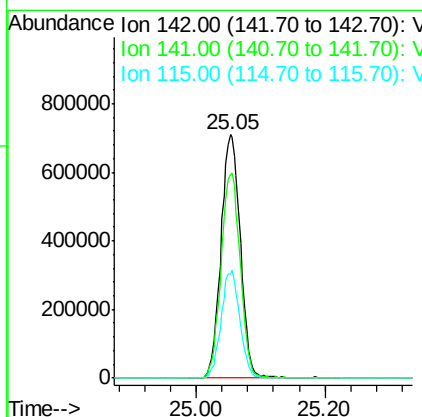
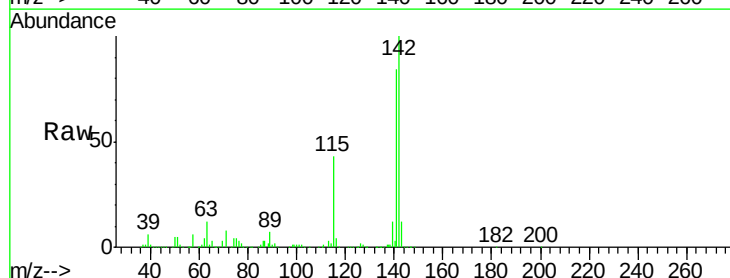
Manual Integrations
APPROVED

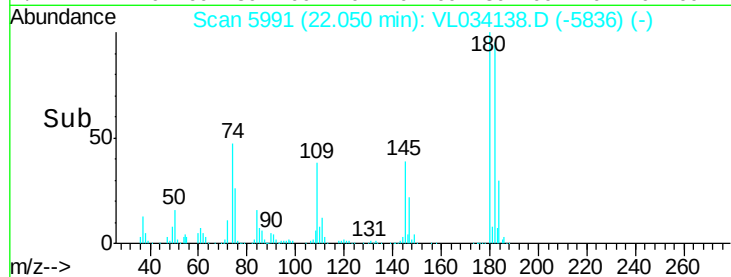
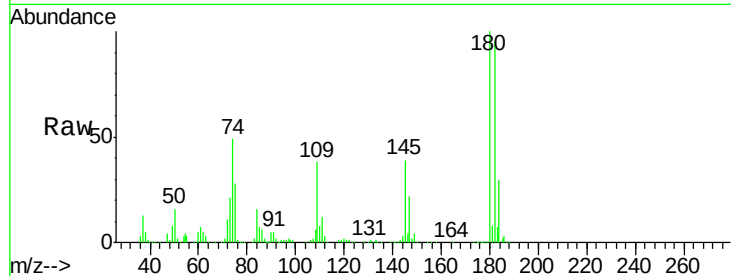
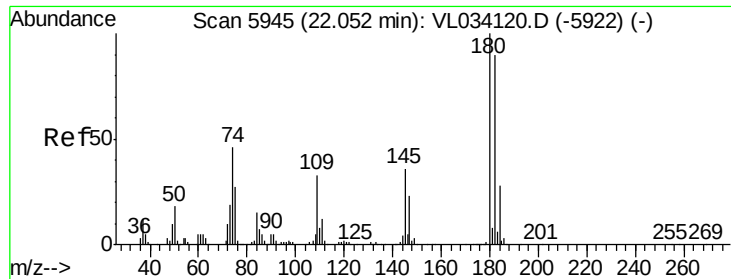
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9/12/2019 5:16:45 AM



#80
Naphthalene, 2-methyl-
Concen: 15.242 ppbv
RT: 25.05 min Scan# 6925
Delta R.T. -0.01 min
Lab File: VL034138.D
Acq: 10 Sep 2019 9:58

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	67.6	101.4
115	42.8	34.6	52.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.430 ppbv m
 RT: 22.05 min Scan# 5991
 Delta R.T. -0.00 min
 Lab File: VL034138.D
 Acq: 10 Sep 2019 9:58

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.0	115.4#
184	0.0	25.5	38.3#

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
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