

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034136.D
 Acq On : 5 Sep 2019 15:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:20 AM

Quant Time: Sep 06 05:11:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 06 05:11:15 2019
 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	5.71	49	905828	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1758969	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1949219m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1480844	9.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1140889	7.636	ppbv	98
3) Chlorodifluoromethane	2.98	51	1016437m	10.066	ppbv	
4) Chloromethane	3.13	50	562648	8.913	ppbv	100
5) Vinyl Chloride	3.25	62	515400	8.963	ppbv	97
6) Bromomethane	3.47	94	276390	9.739	ppbv	94
7) Chloroethane	3.55	64	189052	9.650	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	1111045	9.239	ppbv	98
9) Propene	3.00	41	522566	9.250	ppbv	98
10) Heptane	8.18	43	1392009	9.494	ppbv	100
11) Trichlorofluoromethane	3.96	101	1132356	9.293	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.50	101	765022	9.385	ppbv	96
13) Ethanol	3.61	45	132484m	11.971	ppbv	
14) Bromoethene	3.74	108	343460	9.732	ppbv	98
15) Acetone	3.85	43	979087	8.968	ppbv	100
16) 1,3-Butadiene	3.32	39	525399	9.503	ppbv	96
17) tert-Butyl alcohol	4.31	59	889948	11.229	ppbv	99
18) 1,1-Dichloroethene	4.30	96	361542	9.707	ppbv	96
19) Isopropyl Alcohol	3.98	45	834299	11.322	ppbv	100
20) Methylene Chloride	4.35	84	313983	8.699	ppbv	98
21) Allyl Chloride	4.43	41	689389	9.579	ppbv	98
22) trans-1,2-Dichloroethene	4.91	96	354663	9.514	ppbv	99
23) Vinyl Acetate	5.10	43	1768787	9.550	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1128571	9.181	ppbv	100
25) Ethyl Acetate	5.71	43	2104533	8.782	ppbv	99
26) Hexane	5.72	57	925356	8.685	ppbv	97
27) Carbon Disulfide	4.57	76	924074	9.610	ppbv	99
28) Methyl tert-Butyl Ether	5.06	73	1448205	9.277	ppbv	99
29) Chloroform	5.80	83	1335563	9.294	ppbv	98
30) Cyclohexane	7.18	84	749643	9.732	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	958210	9.391	ppbv	97
32) 1,1,1-Trichloroethane	6.56	97	1241846	9.147	ppbv	99
34) 2-Butanone	5.27	43	1499909	8.870	ppbv	100
35) Carbon Tetrachloride	7.07	117	1185875	8.647	ppbv	98
36) Benzene	6.94	78	1811575	9.010	ppbv	97
37) 1,2-Dichloroethane	6.35	62	1084971	8.797	ppbv	100
38) Trichloroethene	7.90	130	583027	7.771	ppbv	95
39) 1,2-Dichloropropane	7.67	63	769992	8.949	ppbv	95
40) 1,4-Dioxane	7.89	88	283378	8.962	ppbv	# 88
41) Tetrahydrofuran	6.09	42	927614	9.150	ppbv	100
42) Bromodichloromethane	7.85	83	1464189	9.108	ppbv	100
43) Methyl Methacrylate	8.07	69	790529	9.544	ppbv	99

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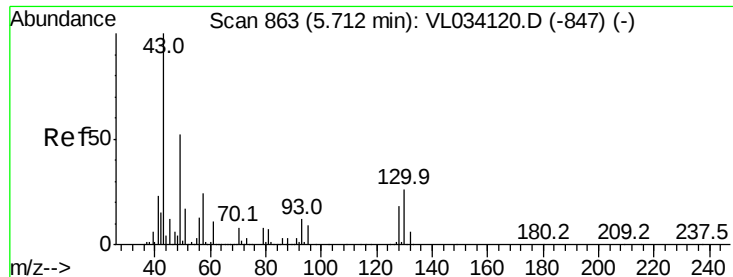
Manual Integrations
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Quant Time: Sep 06 05:11:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
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 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3200764	8.635	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	908272	9.330	ppbv	98
46) cis-1,3-Dichloropropene	8.77	75	1086719	9.176	ppbv	98
47) 1,1,2-Trichloroethane	9.55	97	710705	9.066	ppbv	98
48) Dibromochloromethane	10.38	129	1117013	9.550	ppbv	98
49) Bromoform	13.13	173	964396	9.404	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2249920	8.719	ppbv	98
51) 2-Hexanone	10.20	43	1928168	8.650	ppbv	99
52) Tetrachloroethene	11.31	164	576648	8.134	ppbv	98
53) Toluene	9.88	91	2037489	9.163	ppbv	98
54) 1,2-Dibromoethane	10.69	107	1075827	9.212	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	734758	8.789	ppbv	99
57) Chlorobenzene	12.23	112	1395333	8.322	ppbv	98
58) Ethyl Benzene	12.80	91	2751387	8.608	ppbv	98
59) m/p-Xylene	13.08	91	4410499m	16.916	ppbv	
60) o-Xylene	13.78	91	2170231	8.357	ppbv	99
61) Styrene	13.61	104	1628553	8.384	ppbv	100
62) Isopropylbenzene	14.76	105	2902695	8.590	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.77	83	1594056	7.532	ppbv	100
64) n-propylbenzene	15.66	120	755106	8.921	ppbv	94
65) tert-Butylbenzene	16.84	119	2454823	8.418	ppbv	100
66) Benzyl Chloride	17.09	91	946689	8.805	ppbv	100
67) sec-Butylbenzene	17.39	105	3566398	8.505	ppbv	99
69) p-Isopropyltoluene	17.75	119	2910129	8.673	ppbv	99
70) n-Butylbenzene	18.64	91	3298829	8.641	ppbv	99
71) 2-Chlorotoluene	15.55	91	2401096	8.699	ppbv	99
72) 4-Ethyltoluene	15.93	105	2508095	8.560	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2428891	8.529	ppbv	96
74) 1,2,4-Trimethylbenzene	16.86	105	2421760	8.259	ppbv	97
75) 1,3-Dichlorobenzene	17.10	146	1305386	8.402	ppbv	100
76) 1,4-Dichlorobenzene	17.24	146	1349495	8.287	ppbv	99
77) 1,2-Dichlorobenzene	17.92	146	1348200	8.476	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1045038	9.630	ppbv	98
79) Naphthalene	22.33	128	2353980	8.880	ppbv	99
80) Naphthalene, 2-methyl-	25.05	142	892420	9.698	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1193823	8.276	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 861

Delta R.T. -0.01 min

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MSVOA_L

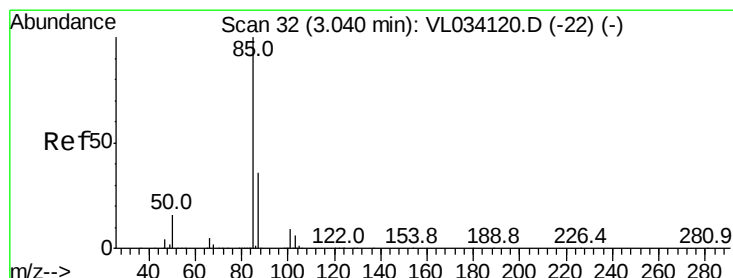
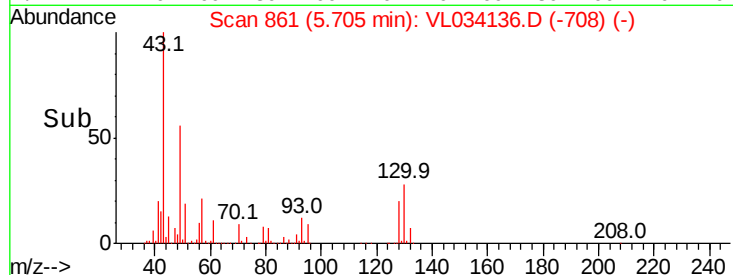
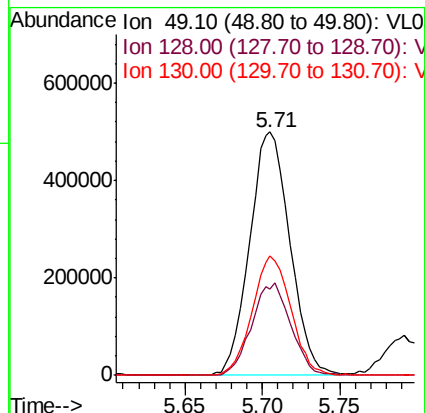
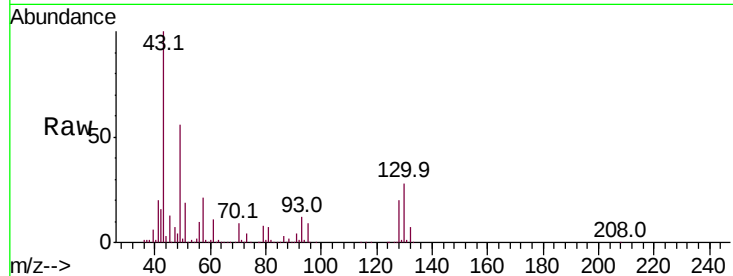
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	36.8	18.4	55.0
130	47.4	23.5	70.6

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 7.636 ppbv

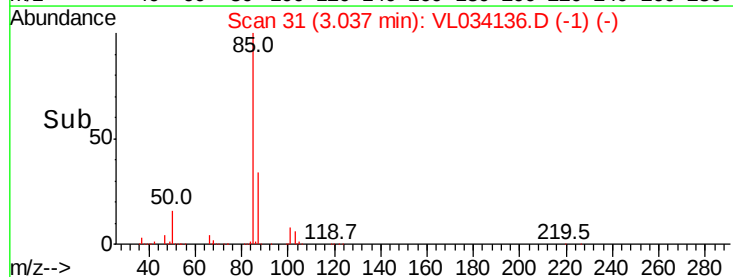
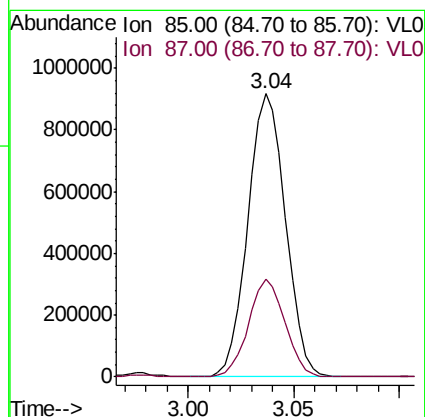
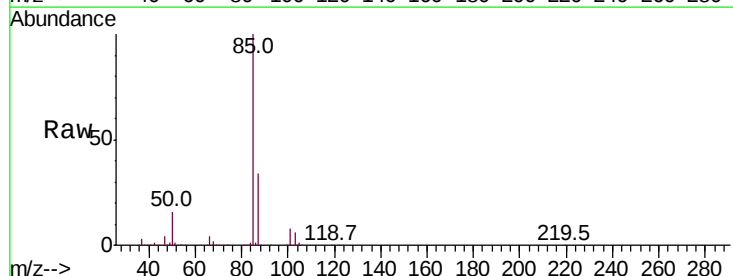
RT: 3.04 min Scan# 31

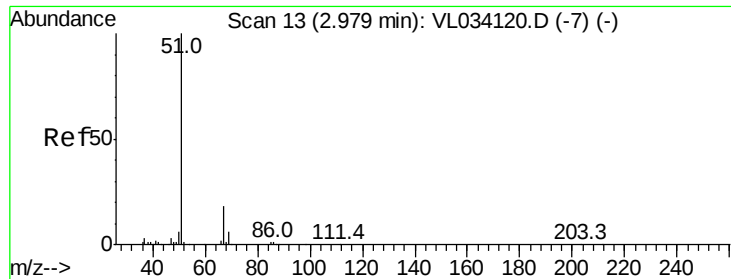
Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.5	28.6	43.0





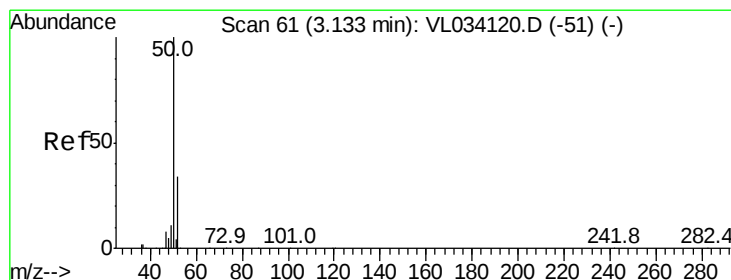
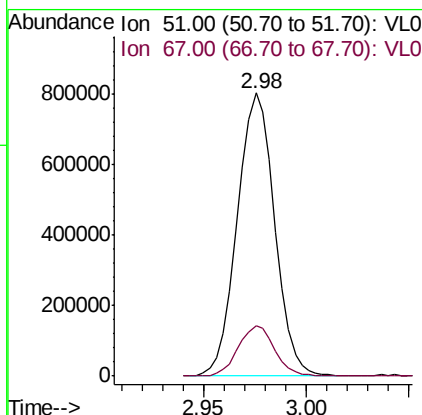
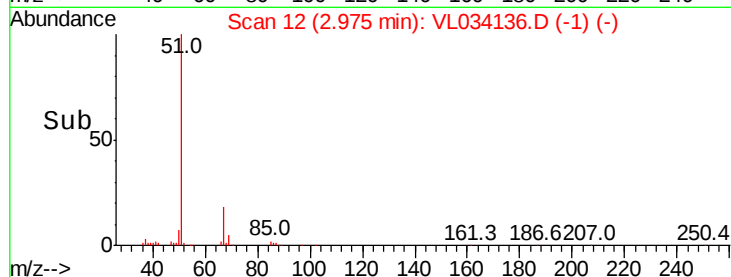
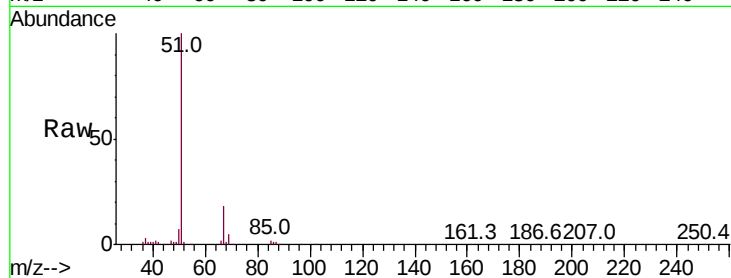
#3
Chlorodifluoromethane
Concen: 10.066 ppbv
RT: 2.98 min Scan# 12
Delta R.T. -0.00 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

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VSTDCCC010EC

Tot Ion: 51 Resp: 1016437
Ion Ratio Lower Upper
51 100
67 16.6 14.2 21.4

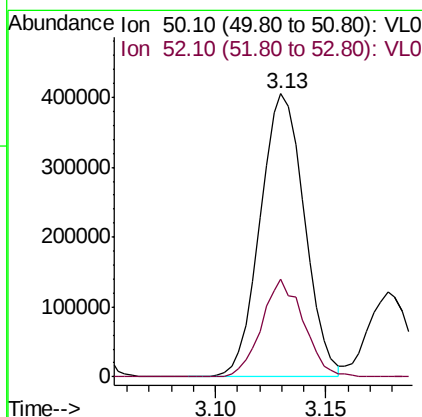
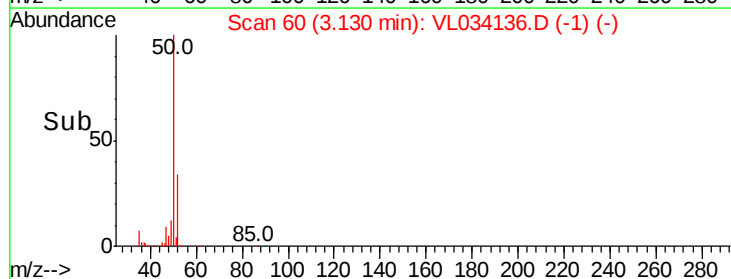
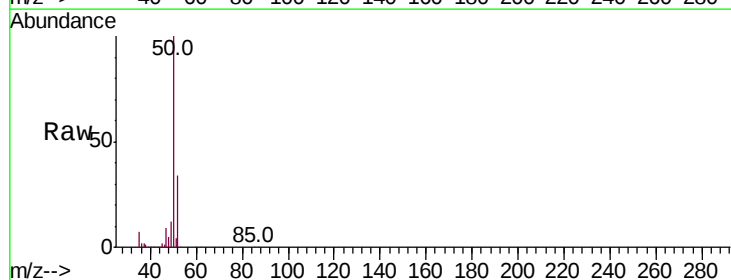
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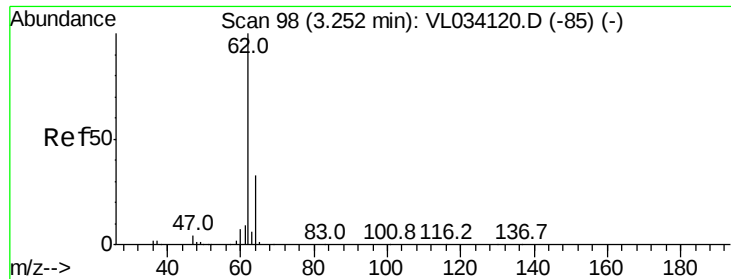
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#4
Chloromethane
Concen: 8.913 ppbv
RT: 3.13 min Scan# 60
Delta R.T. -0.00 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion: 50 Resp: 562648
Ion Ratio Lower Upper
50 100
52 34.5 27.4 41.2





#5

Vinyl Chloride

Concen: 8.963 ppbv

RT: 3.25 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 515400

Ion Ratio Lower Upper

62 100

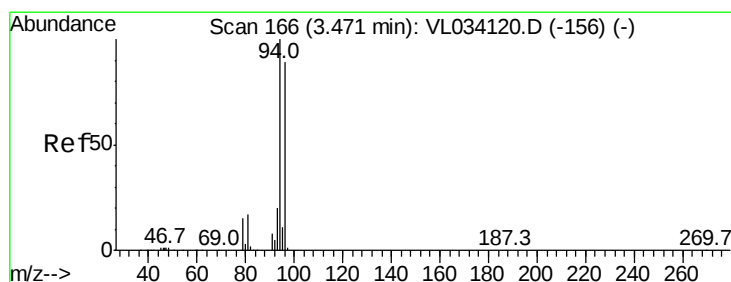
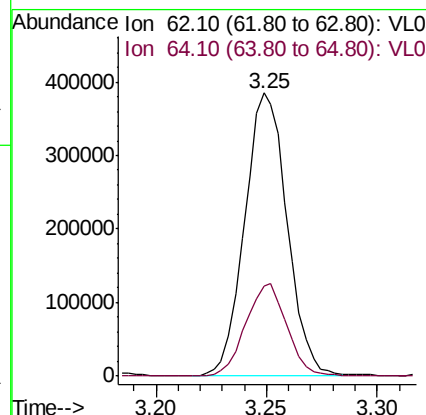
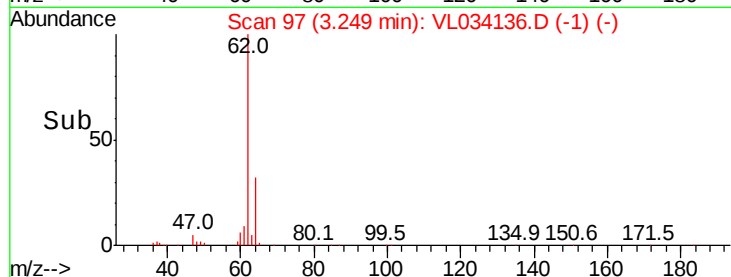
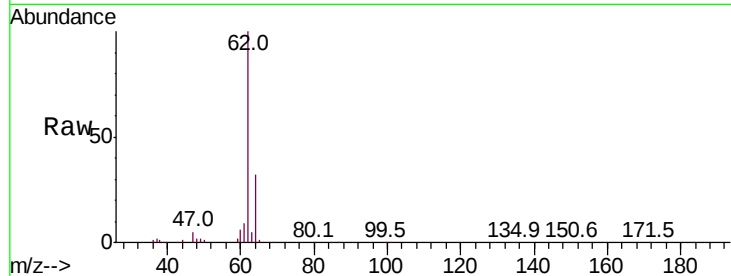
64 31.7 26.6 39.8

Manual Integrations

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#6

Bromomethane

Concen: 9.739 ppbv

RT: 3.47 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL034136.D

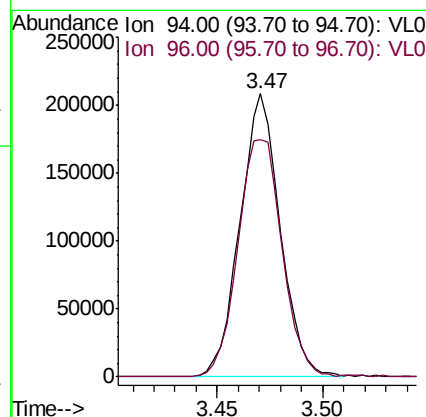
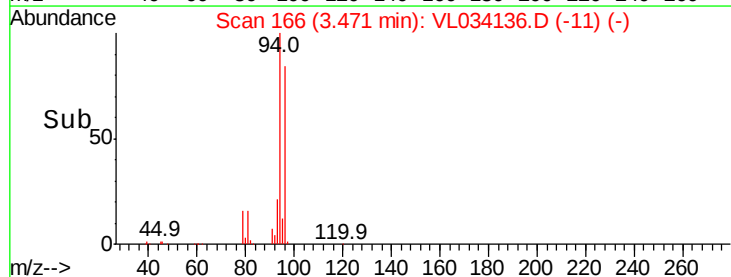
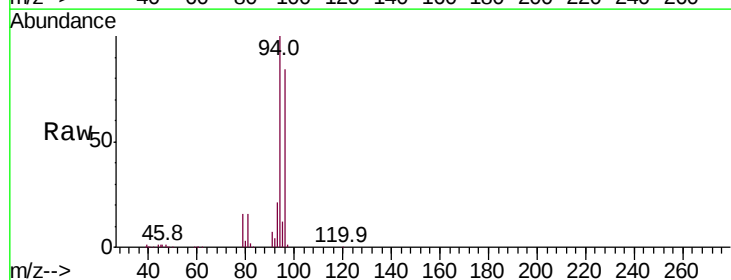
Acq: 5 Sep 2019 15:04

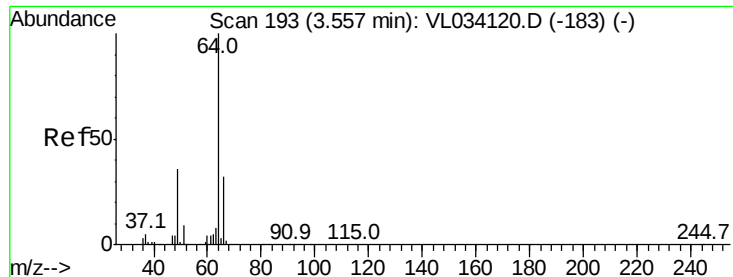
Tgt Ion: 94 Resp: 276390

Ion Ratio Lower Upper

94 100

96 83.5 71.4 107.0





#7

Chloroethane

Concen: 9.650 ppbv

RT: 3.55 min Scan# 192

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 189052

Ion Ratio Lower Upper

64 100

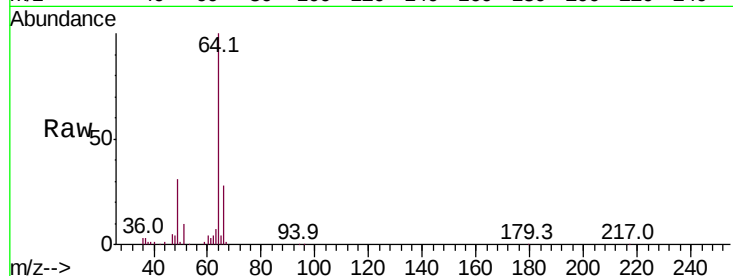
66 28.2 25.4 38.2

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

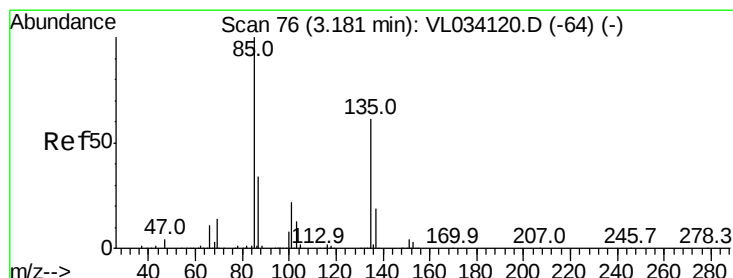
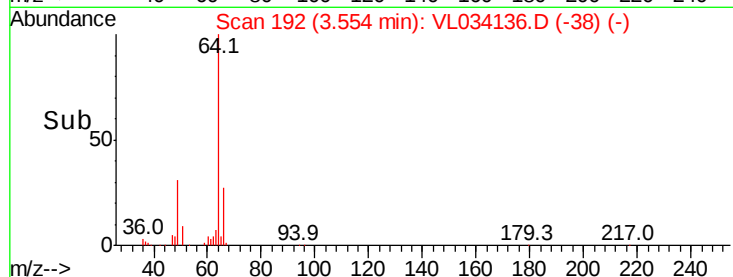
100000

50000

0

3.50 3.55 3.60

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.239 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL034136.D

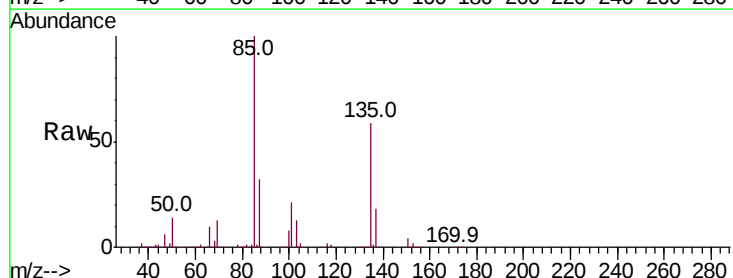
Acq: 5 Sep 2019 15:04

Tgt Ion: 85 Resp: 1111045

Ion Ratio Lower Upper

85 100

135 61.5 48.0 72.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

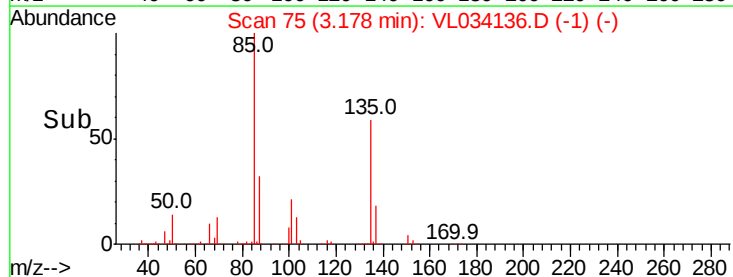
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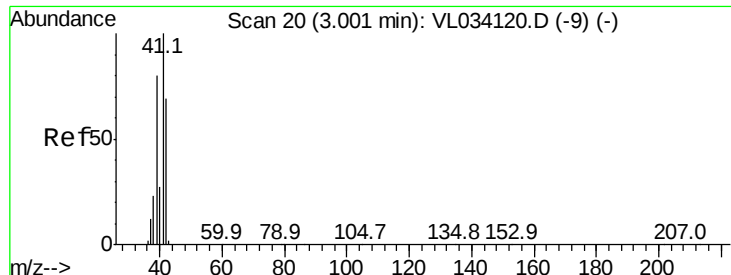
200000

0

3.15 3.20

Time-->





#9

Propene

Concen: 9.250 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 522566

Ion Ratio Lower Upper

41 100

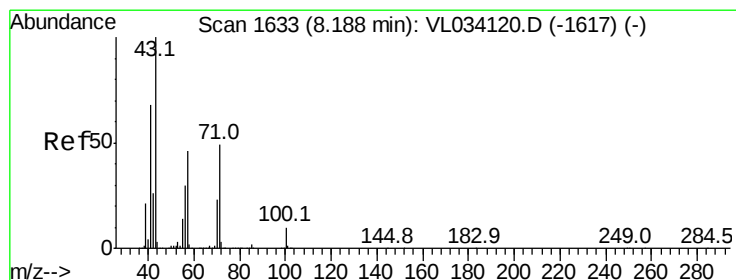
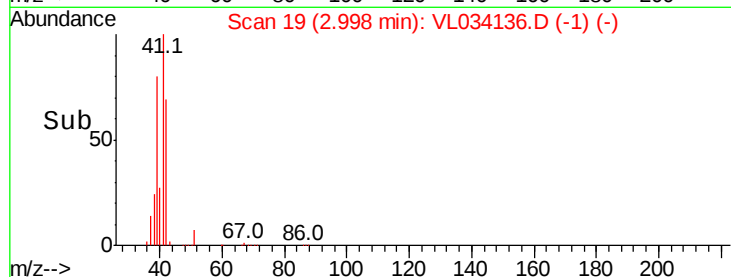
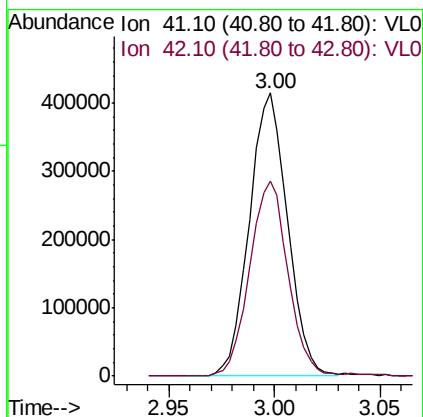
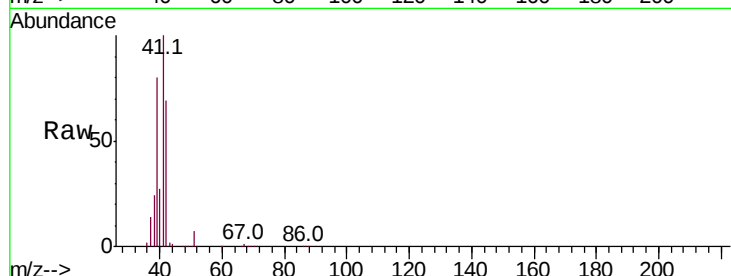
42 70.0 54.6 81.8

Manual Integrations

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9/12/2019 5:15:20 AM



#10

Heptane

Concen: 9.494 ppbv

RT: 8.18 min Scan# 1631

Delta R.T. -0.01 min

Lab File: VL034136.D

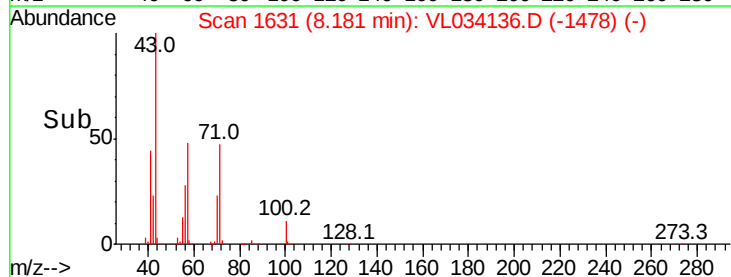
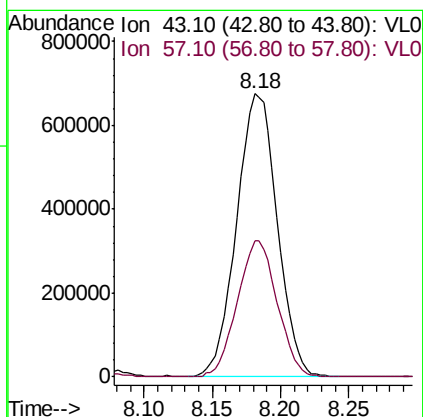
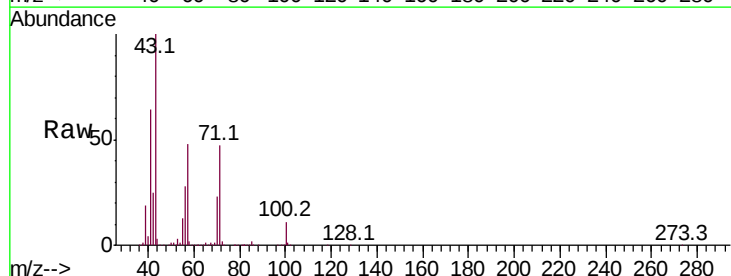
Acq: 5 Sep 2019 15:04

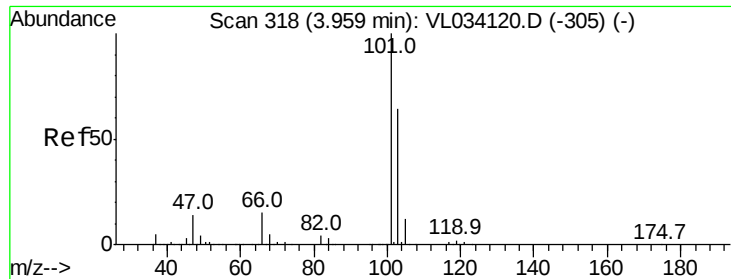
Tgt Ion: 43 Resp: 1392009

Ion Ratio Lower Upper

43 100

57 47.4 38.1 57.1





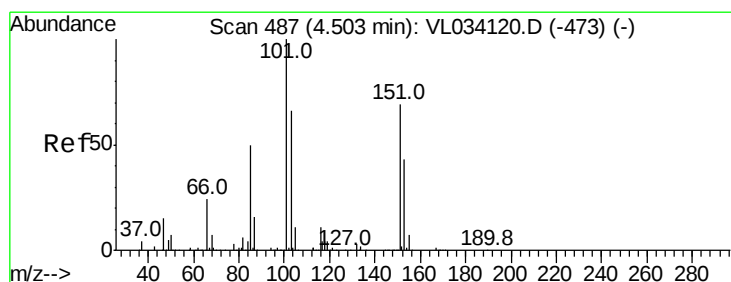
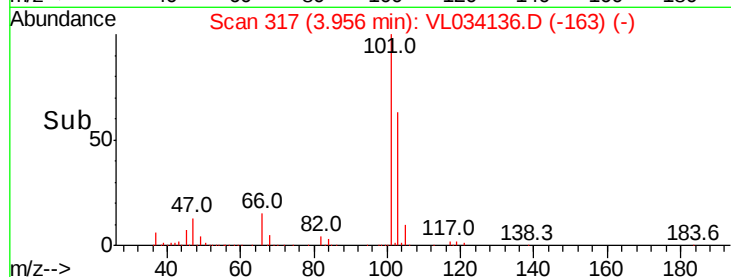
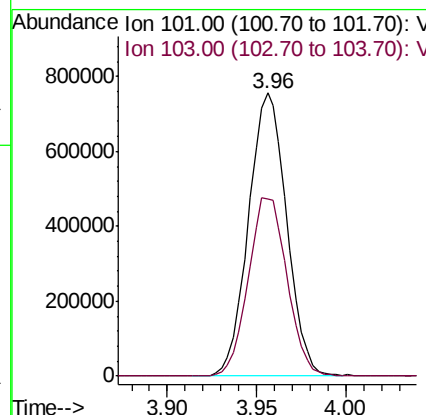
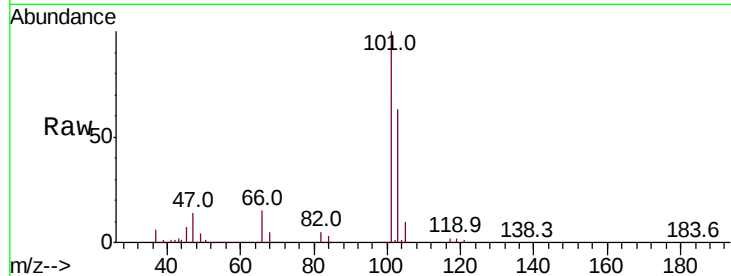
#11
 Trichlorofluoromethane
 Concen: 9.293 ppbv
 RT: 3.96 min Scan# 317
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1132356
 Ion Ratio Lower Upper
 101 100
 103 62.7 51.4 77.2

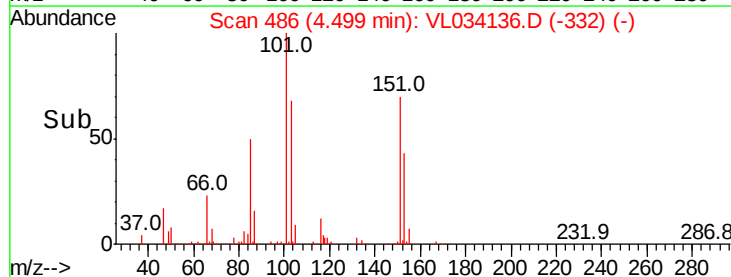
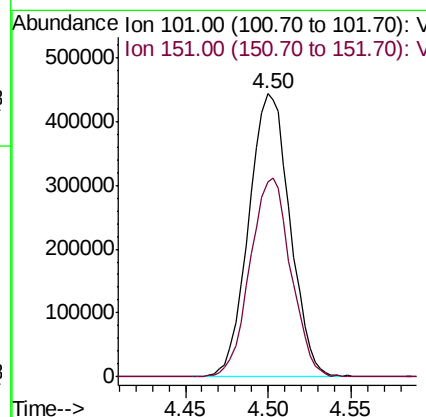
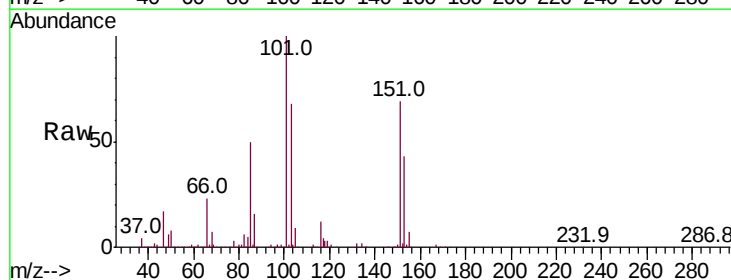
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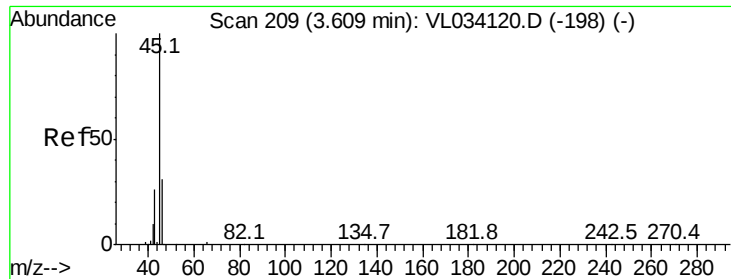
MMDadoda
 9/12/2019 5:15:20 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.385 ppbv
 RT: 4.50 min Scan# 486
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion:101 Resp: 765022
 Ion Ratio Lower Upper
 101 100
 151 69.7 53.0 79.6





#13

Ethanol

Concen: 11.971 ppbv m

RT: 3.61 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 132484

Ion Ratio Lower Upper

45 100

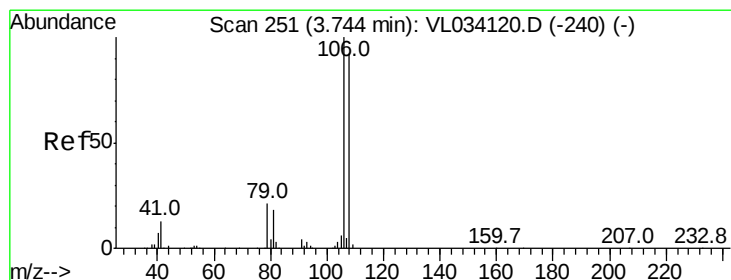
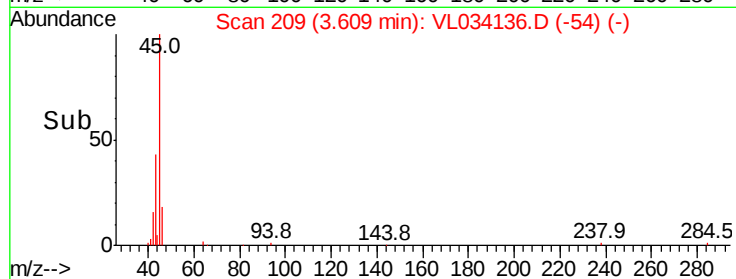
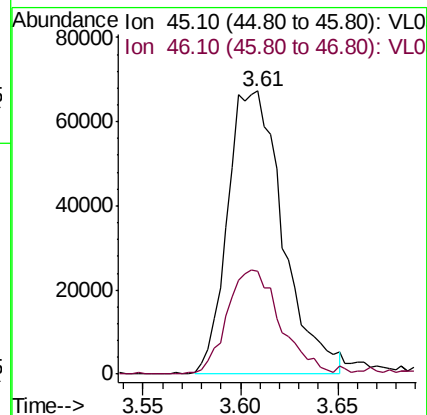
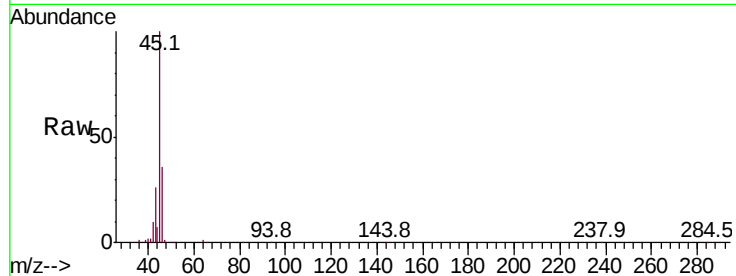
46 37.1 15.0 60.0

Manual Integrations

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9/12/2019 5:15:20 AM



#14

Bromoethene

Concen: 9.732 ppbv

RT: 3.74 min Scan# 250

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

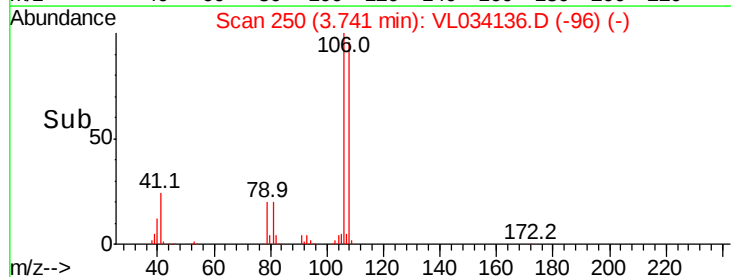
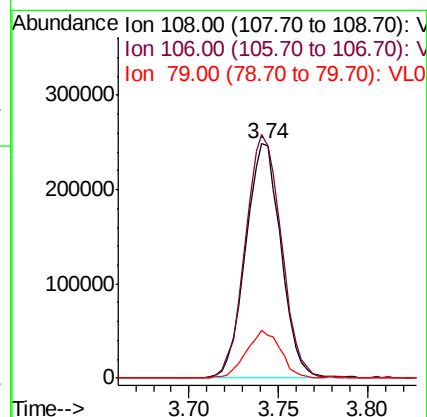
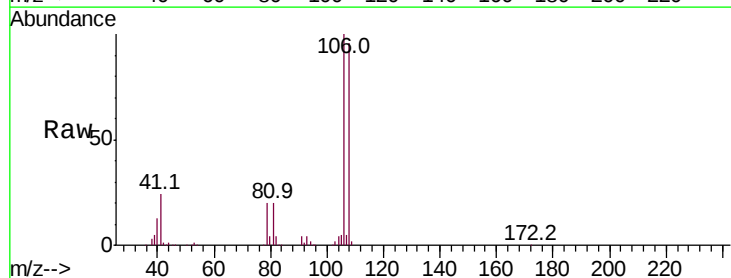
Tgt Ion: 108 Resp: 343460

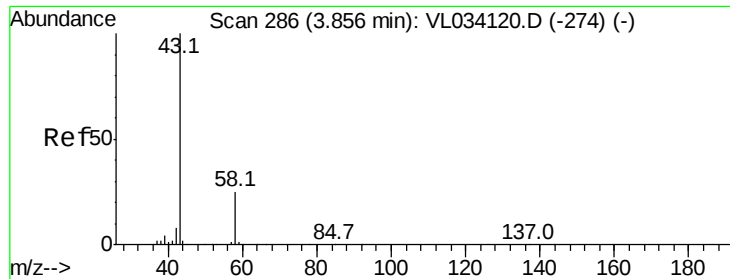
Ion Ratio Lower Upper

108 100

106 106.4 87.2 130.8

79 20.0 16.5 24.7





#15

Acetone

Concen: 8.968 ppbv

RT: 3.85 min Scan# 285

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Tot Ion: 43 Resp: 979087

Ion Ratio Lower Upper

43 100

58 25.5 20.6 30.8

Instrument :

MSVOA_L

ClientSampleId :

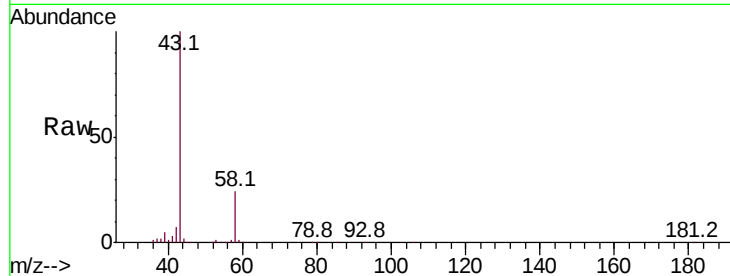
VSTDCCC010EC

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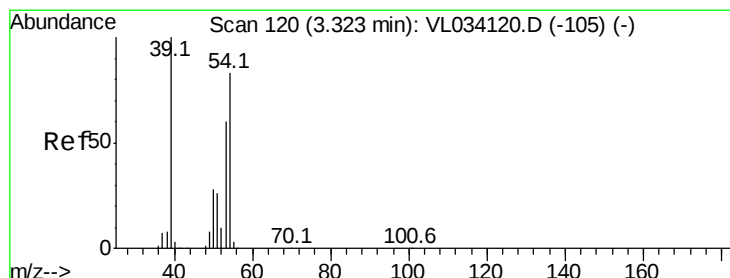
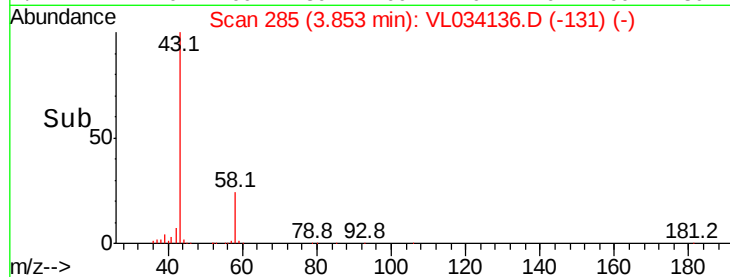
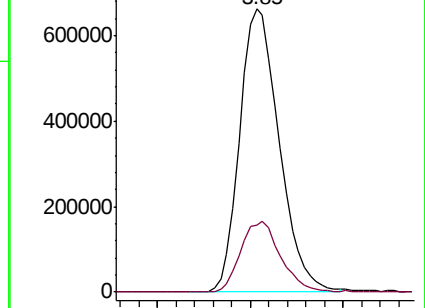
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.503 ppbv

RT: 3.32 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL034136.D

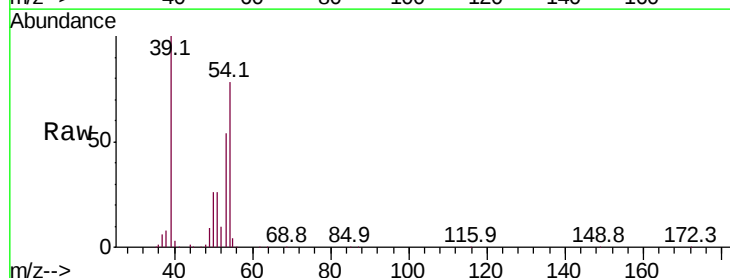
Acq: 5 Sep 2019 15:04

Tgt Ion: 39 Resp: 525399

Ion Ratio Lower Upper

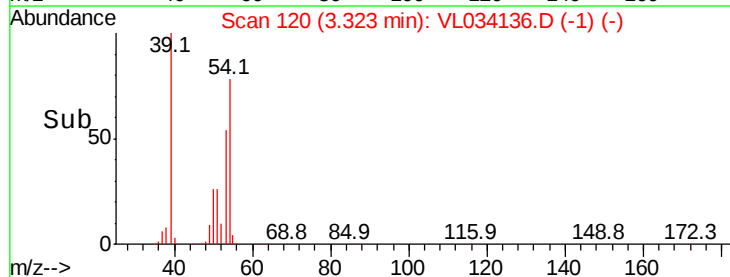
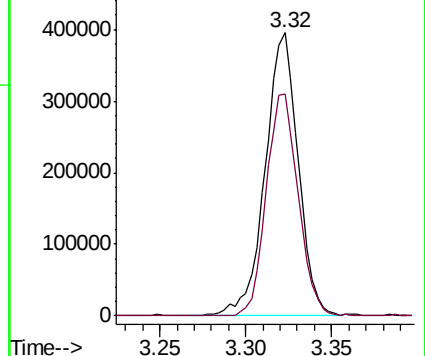
39 100

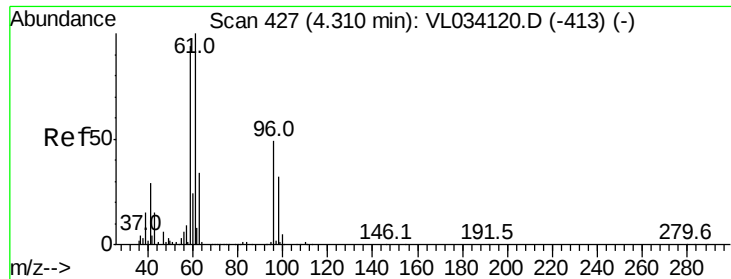
54 76.2 63.5 95.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

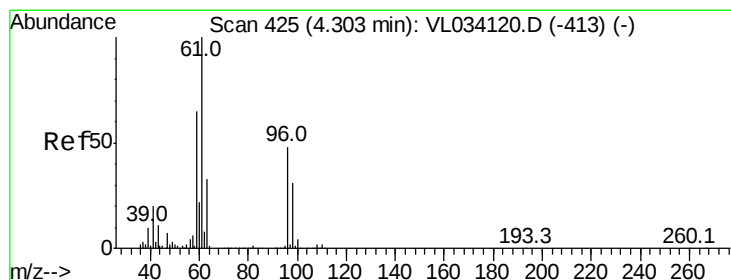
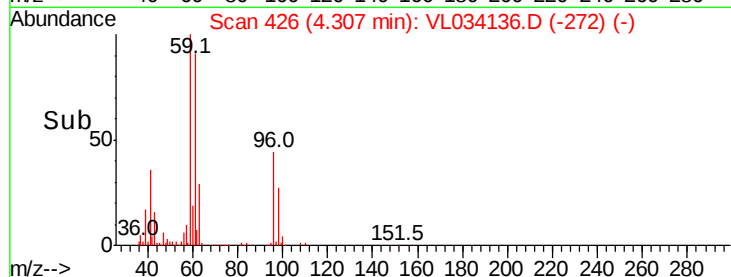
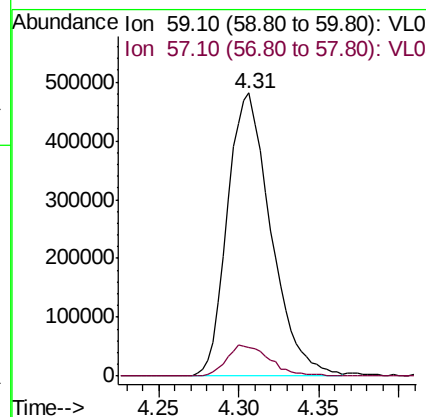
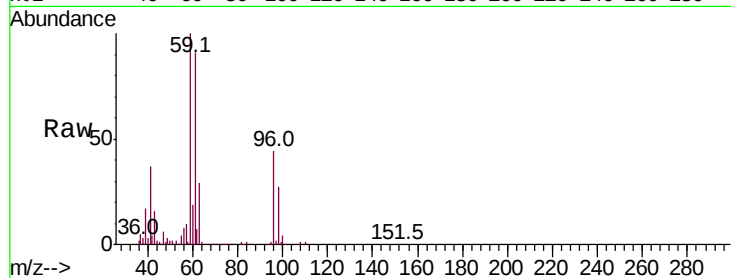
tert-Butyl alcohol
Concen: 11.229 ppbv
RT: 4.31 min Scan# 426
Delta R.T. -0.00 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	12.8

Manual Integrations
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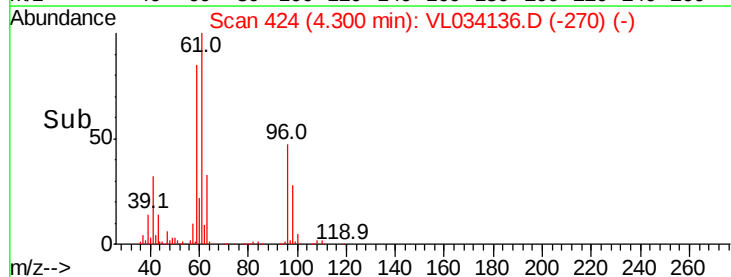
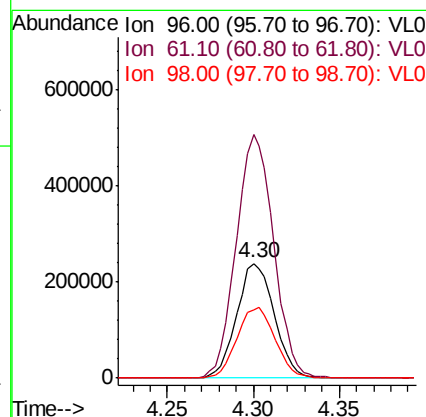
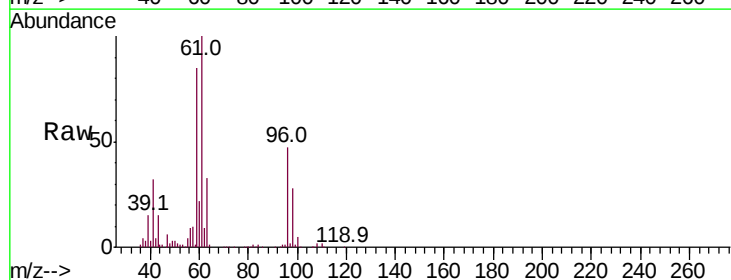
MMDadoda
9/12/2019 5:15:20 AM

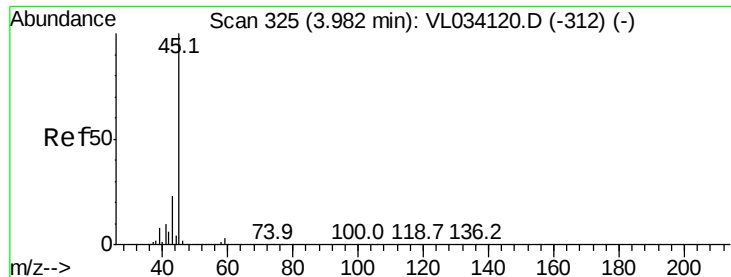


#18

1,1-Dichloroethene
Concen: 9.707 ppbv
RT: 4.30 min Scan# 424
Delta R.T. -0.00 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	212.8	165.8	248.8
98	60.0	50.8	76.2





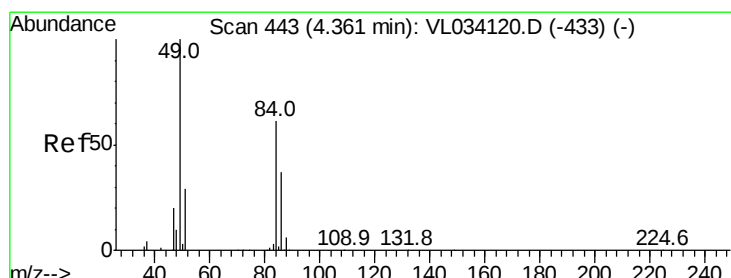
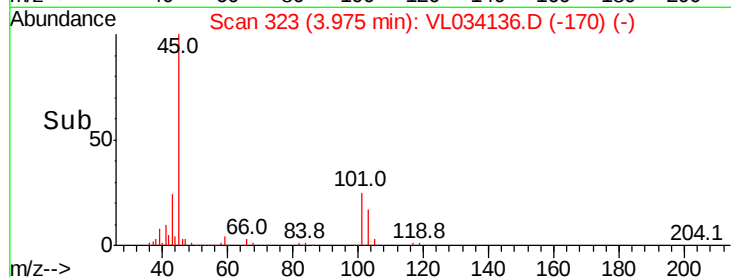
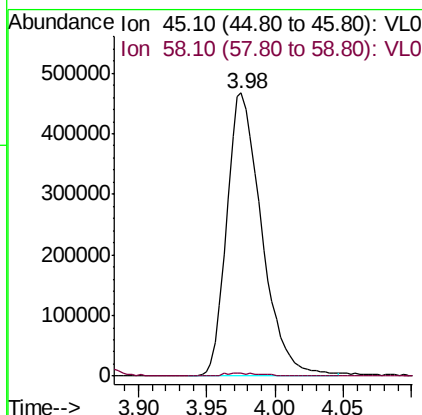
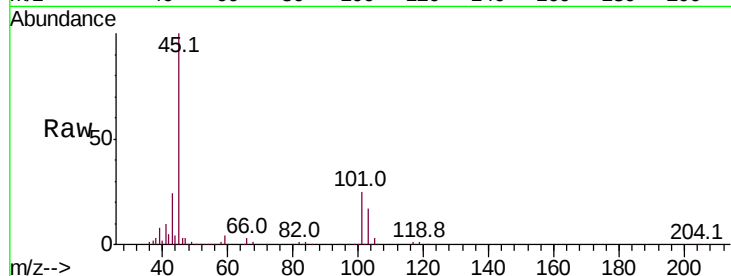
#19
Isopropyl Alcohol
Concen: 11.322 ppbv
RT: 3.98 min Scan# 323
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 834299
Ion Ratio Lower Upper
45 100
58 1.4 1.0 1.6

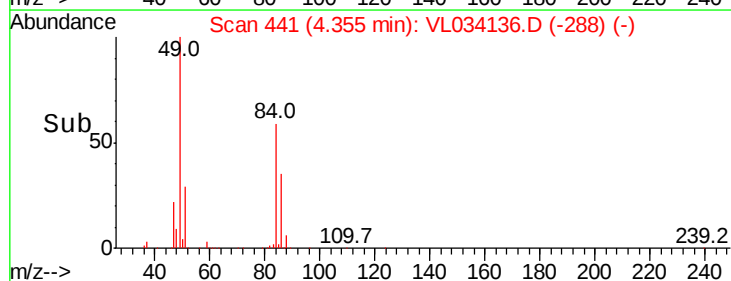
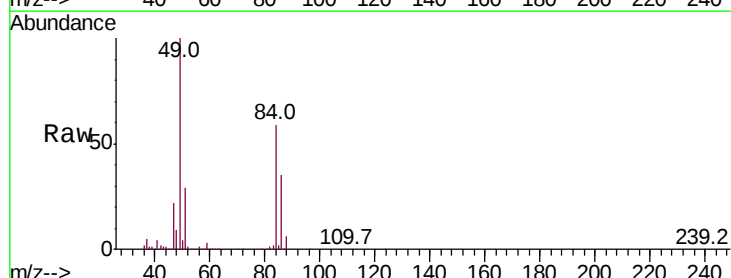
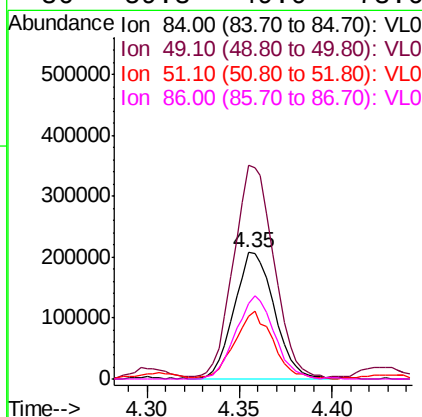
Manual Integrations
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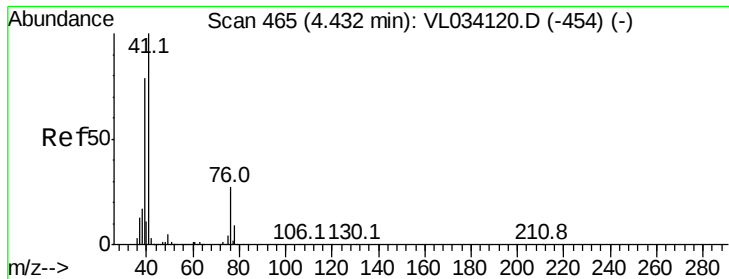
MMDadoda
9/12/2019 5:15:20 AM



#20
Methylene Chloride
Concen: 8.699 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion: 84 Resp: 313983
Ion Ratio Lower Upper
84 100
49 167.1 131.0 196.6
51 49.2 38.1 57.1
86 59.3 49.0 73.6





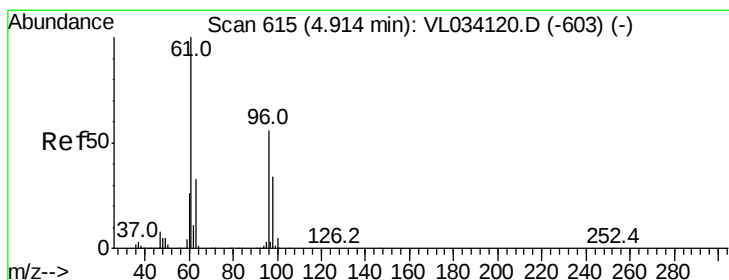
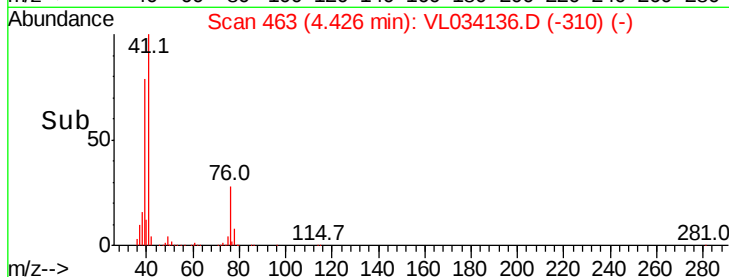
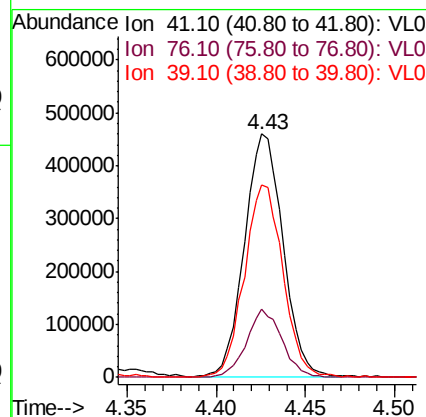
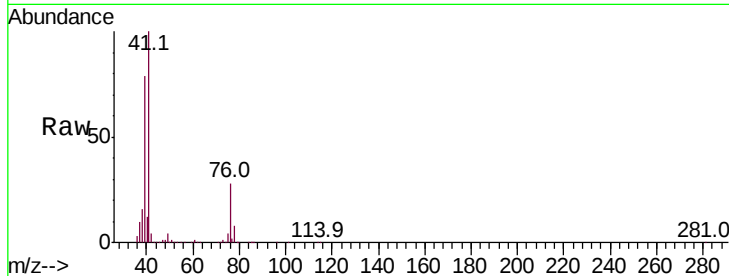
#21
Allvl Chloride
Concen: 9.579 ppbv
RT: 4.43 min Scan# 463
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	25.9	21.6	32.4
39	79.2	65.0	97.4

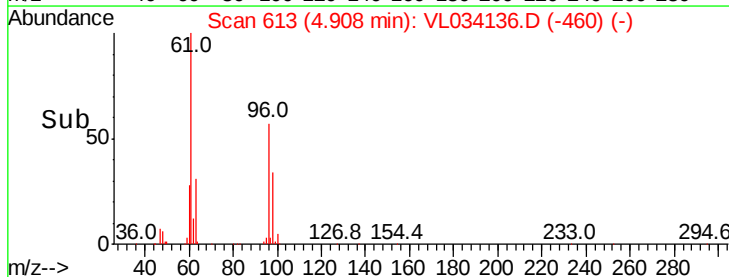
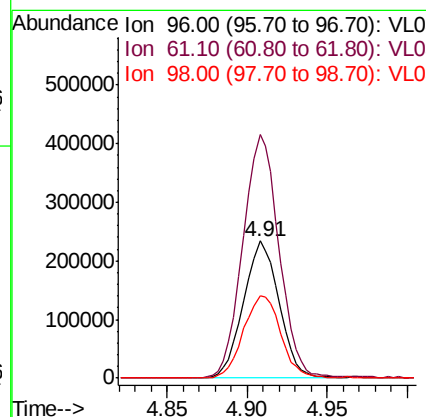
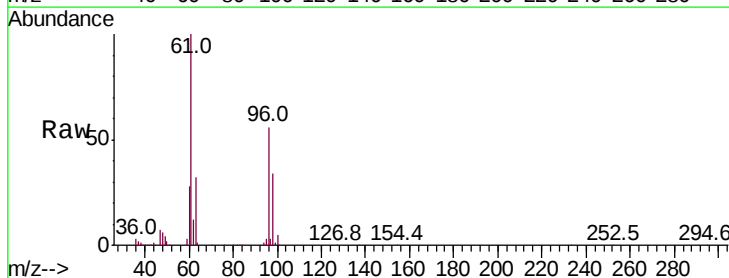
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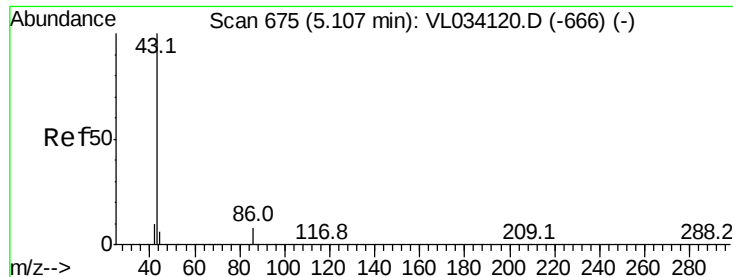
MMDadoda
9/12/2019 5:15:20 AM



#22
trans-1,2-Dichloroethene
Concen: 9.514 ppbv
RT: 4.91 min Scan# 613
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.4	143.1	214.7
98	60.0	49.0	73.4





#23

Vinyl Acetate

Concen: 9.550 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1768787

Ion Ratio Lower Upper

43 100

86 6.5 5.5 8.3

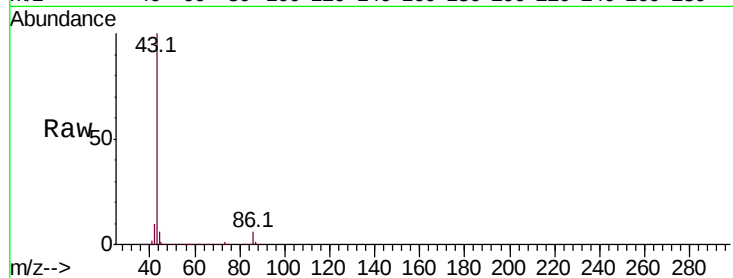
42 9.8 8.2 12.4

44 5.5 4.3 6.5

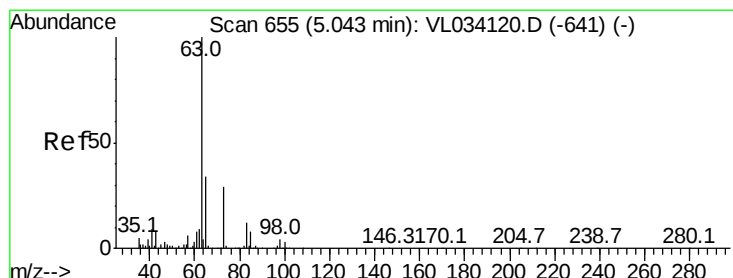
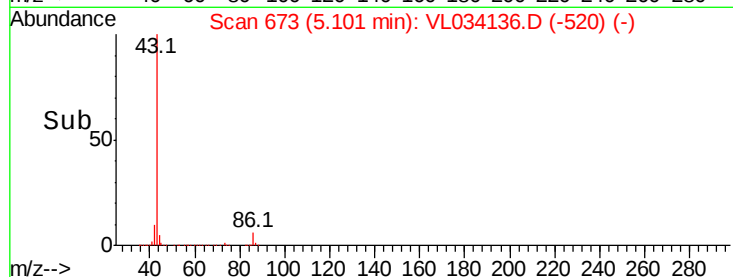
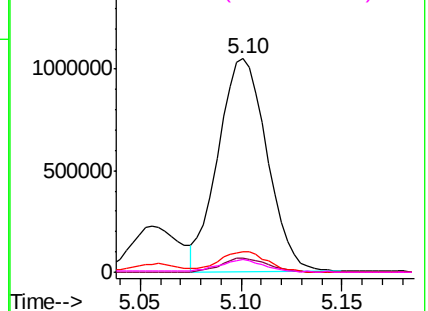
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.181 ppbv

RT: 5.04 min Scan# 653

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

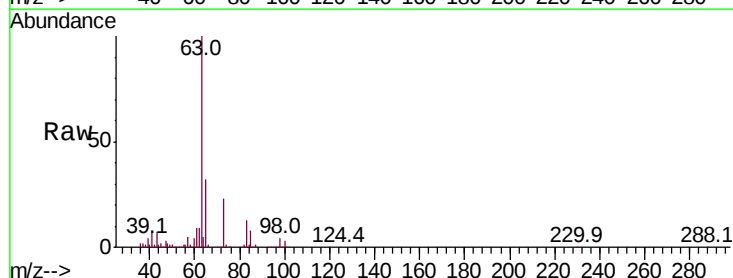
Tgt Ion: 63 Resp: 1128571

Ion Ratio Lower Upper

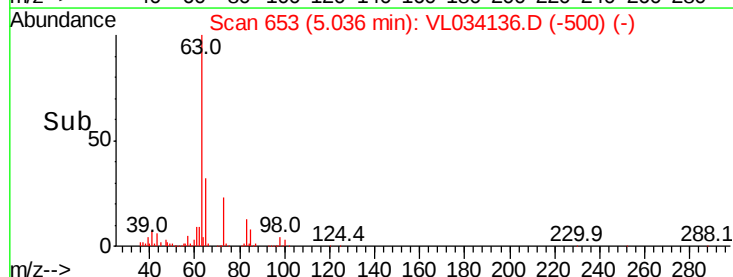
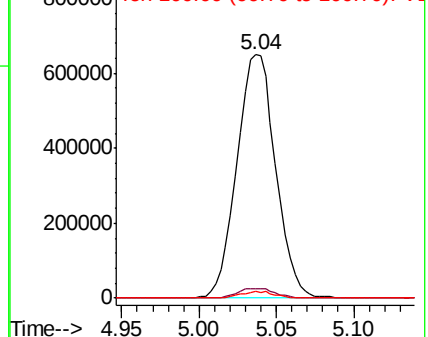
63 100

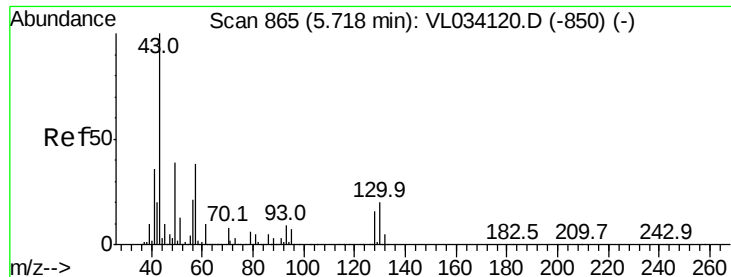
98 3.9 2.1 6.2

100 2.6 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





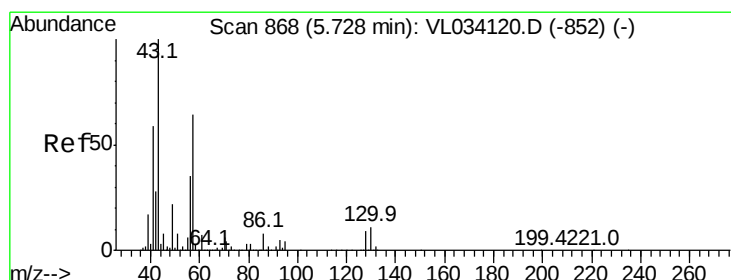
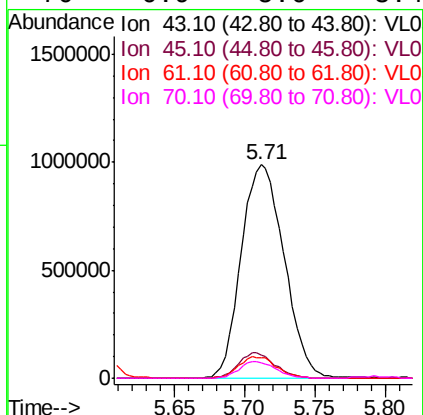
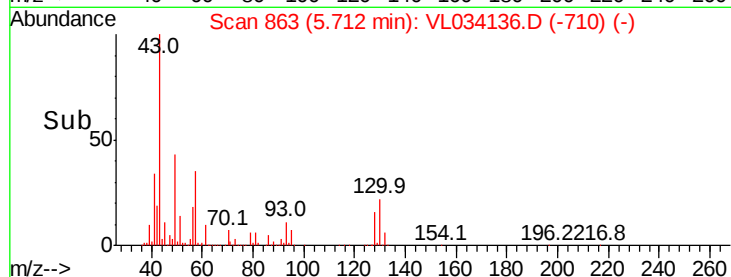
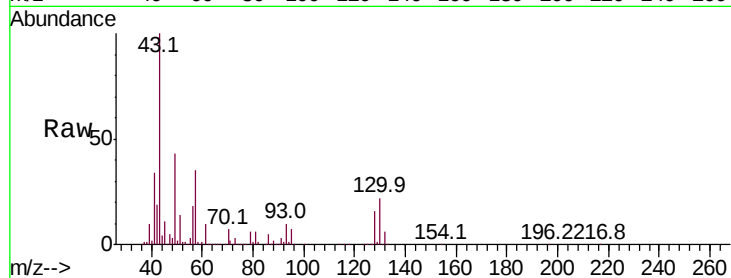
#25
Ethyl Acetate
Concen: 8.782 ppbv
RT: 5.71 min Scan# 863
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.2	8.2	12.4	
61	8.9	7.4	11.2	
70	6.9	5.6	8.4	

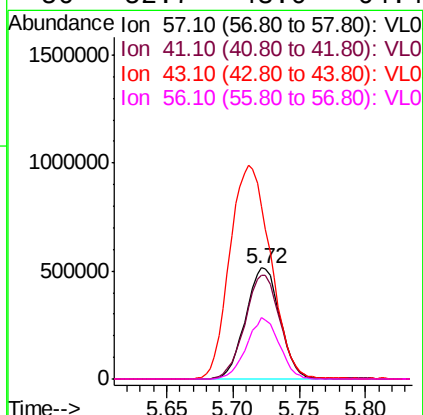
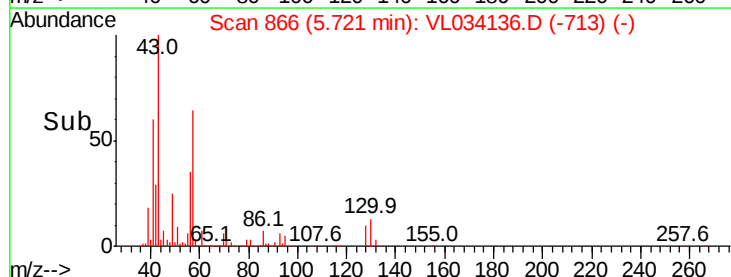
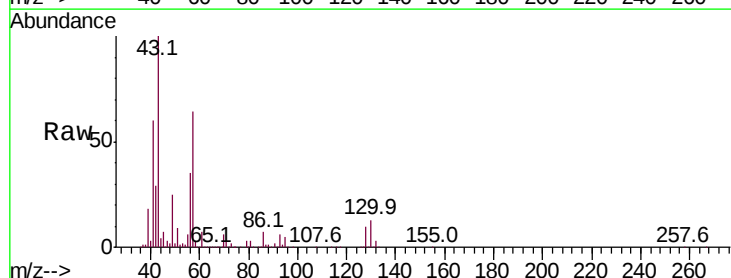
Manual Integrations
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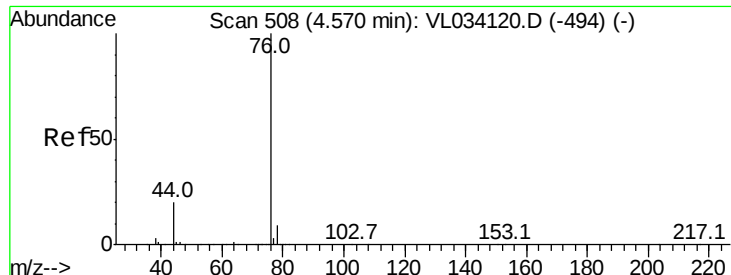
MMDadoda
9/12/2019 5:15:20 AM



#26
Hexane
Concen: 8.685 ppbv
RT: 5.72 min Scan# 866
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	95.7	76.6	115.0	
43	228.7	189.2	283.8	
56	52.7	43.0	64.4	





#27

Carbon Disulfide

Concen: 9.610 ppbv

RT: 4.57 min Scan# 507

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

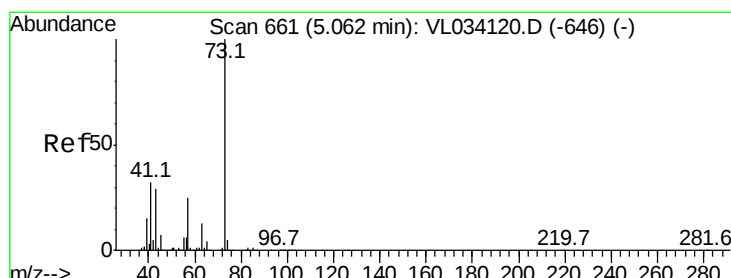
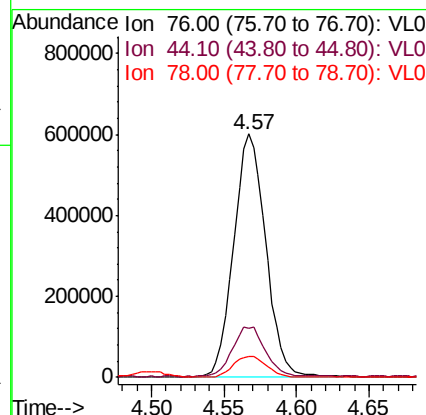
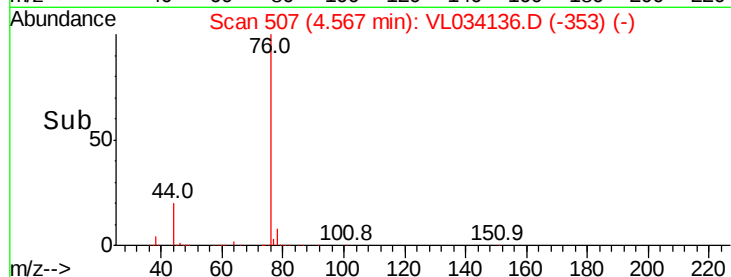
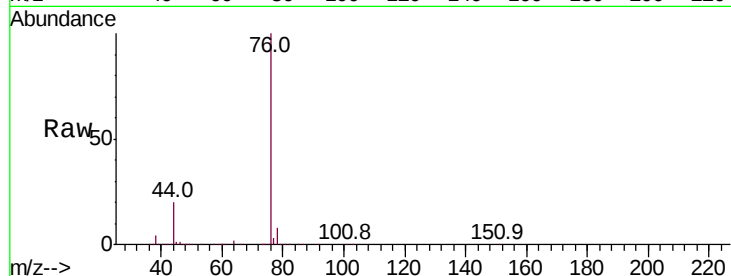
ClientSampleId :

VSTDCCC010EC

Tot Ion:	76	Resp:	924074
Ion Ratio	Lower	Upper	
76	100		
44	21.4	17.6	26.4
78	9.0	7.3	10.9

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 9.277 ppbv

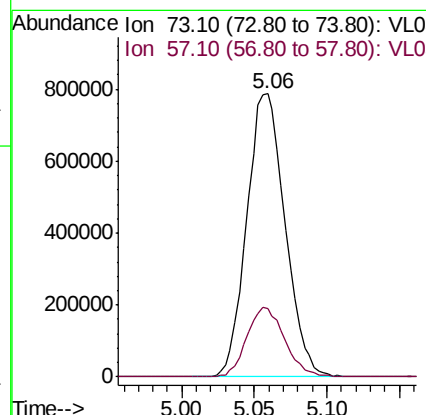
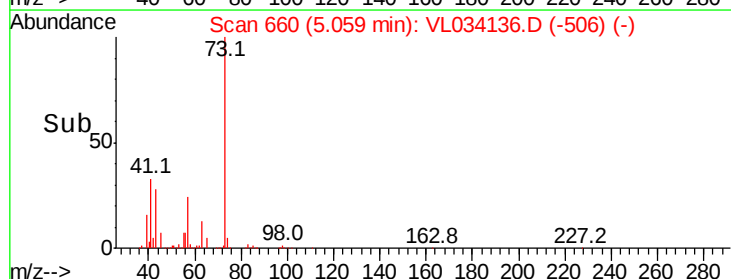
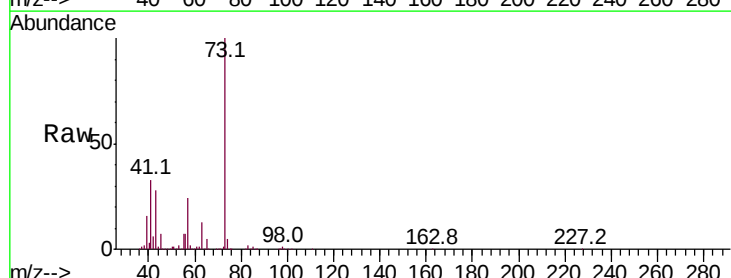
RT: 5.06 min Scan# 660

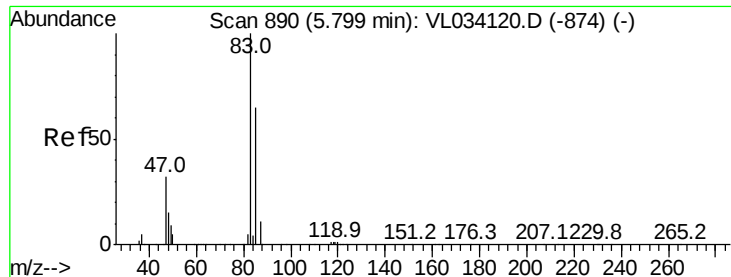
Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Tgt Ion:	73	Resp:	1448205
Ion Ratio	Lower	Upper	
73	100		
57	24.4	19.8	29.8





#29

Chloroform

Concen: 9.294 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1335563

Ion Ratio Lower Upper

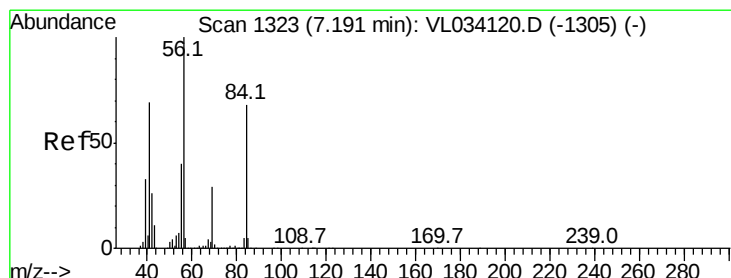
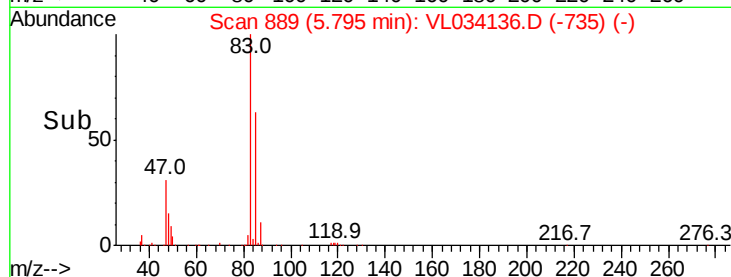
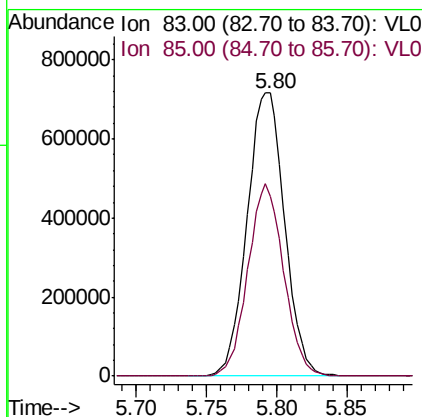
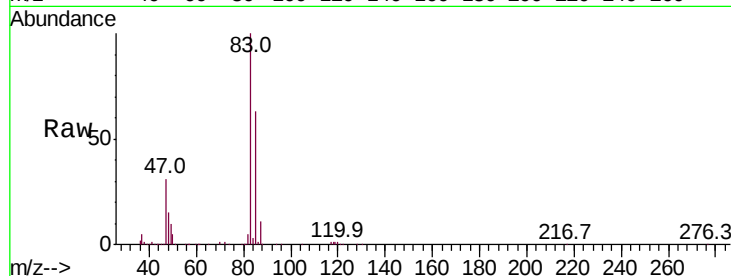
83 100

85 63.1 51.8 77.6

Manual Integrations
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#30

Cyclohexane

Concen: 9.732 ppbv

RT: 7.18 min Scan# 1321

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

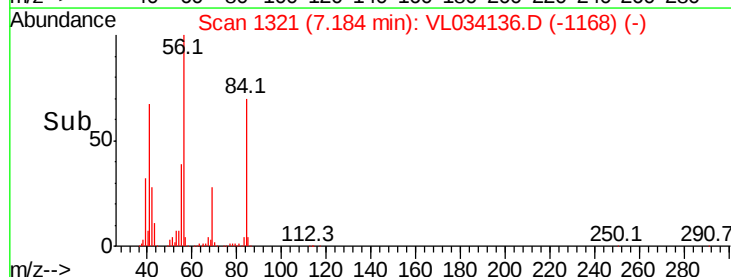
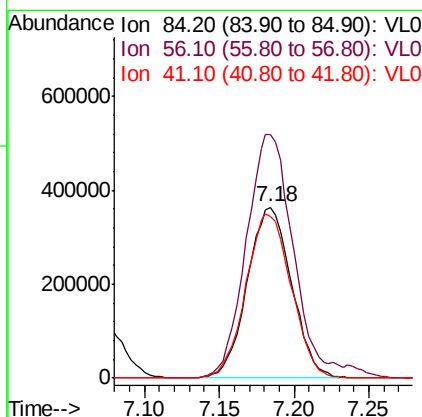
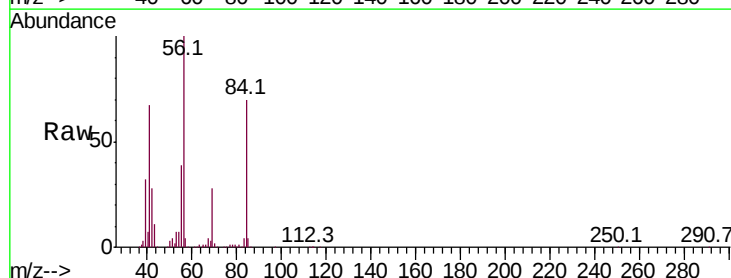
Tgt Ion: 84 Resp: 749643

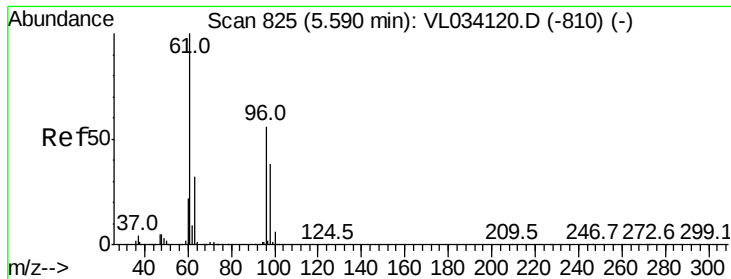
Ion Ratio Lower Upper

84 100

56 154.1 122.6 183.8

41 98.2 79.1 118.7





#31

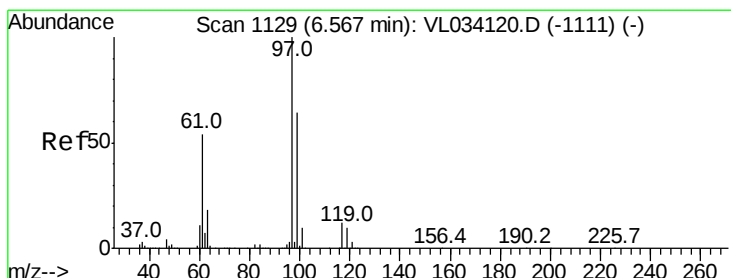
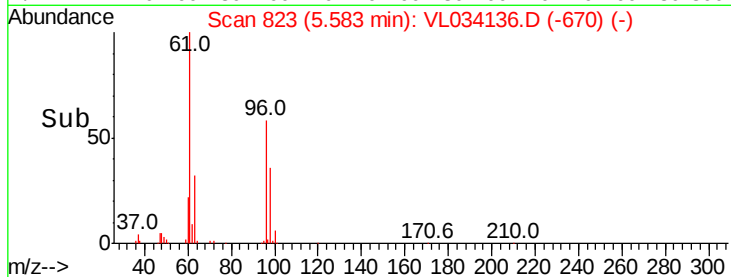
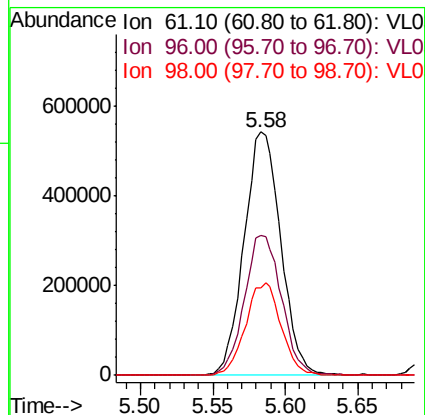
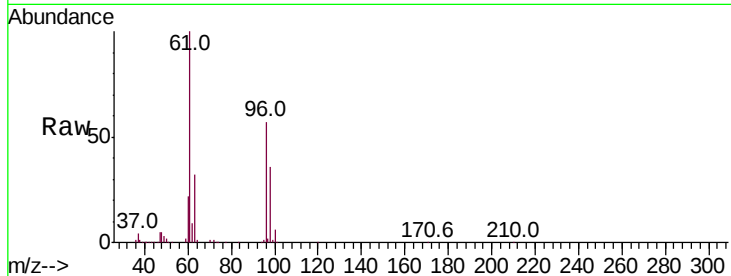
cis-1,2-Dichloroethene
Concen: 9.391 ppbv
RT: 5.58 min Scan# 823
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
61	100	958210		
96	57.5		44.4	66.6
98	35.9		30.0	45.0

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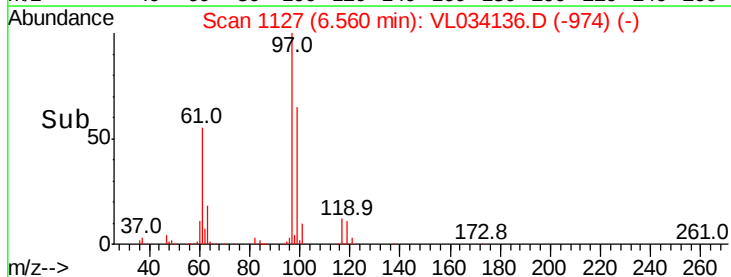
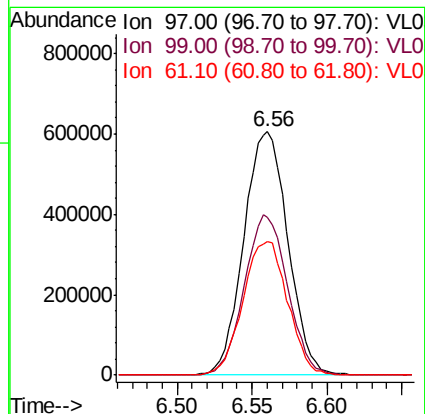
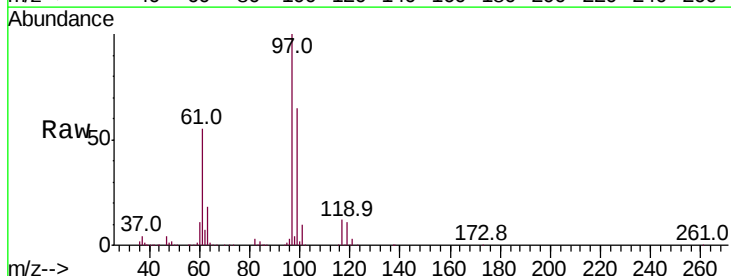
MMDadoda
9/12/2019 5:15:20 AM

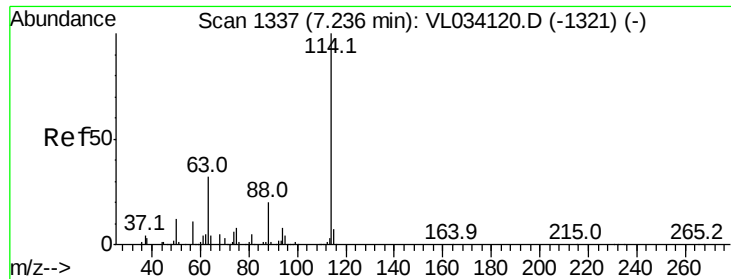


#32

1,1,1-Trichloroethane
Concen: 9.147 ppbv
RT: 6.56 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	1241846		
99	64.7		51.7	77.5
61	56.1		44.0	66.0





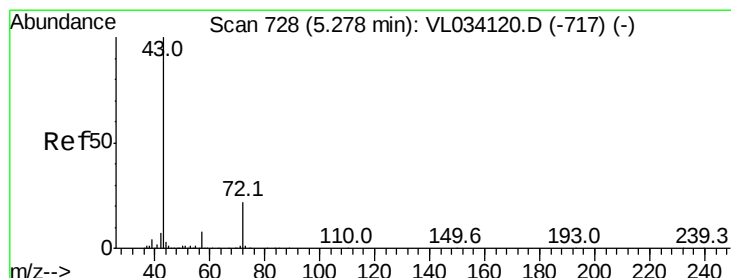
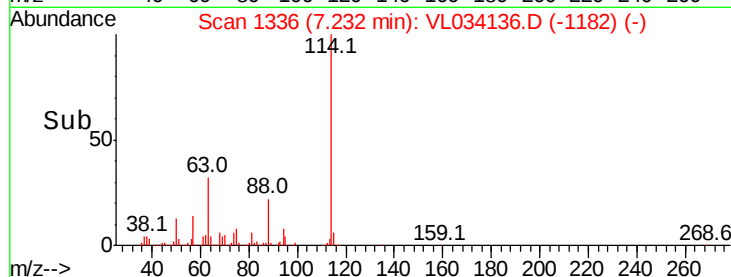
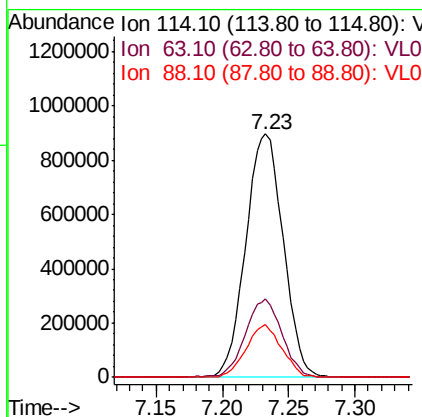
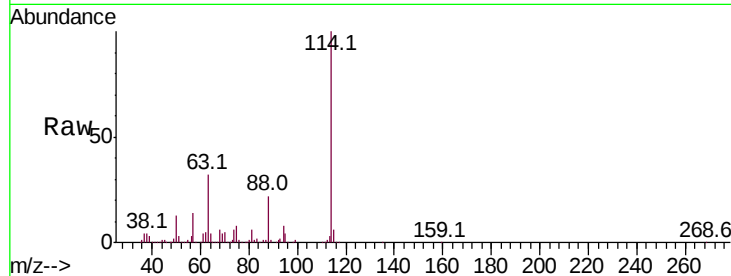
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.8	25.5	38.3
88	20.7	16.8	25.2

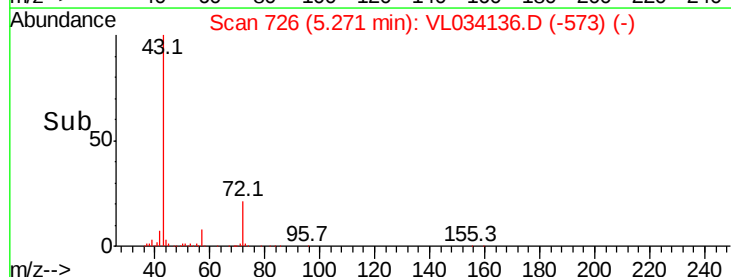
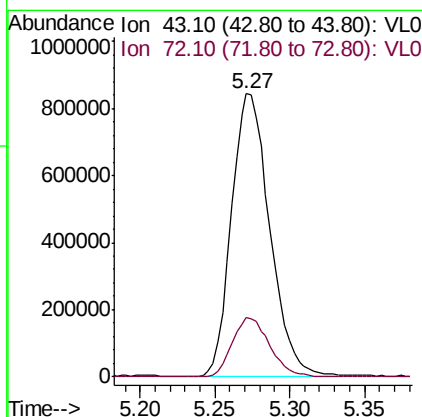
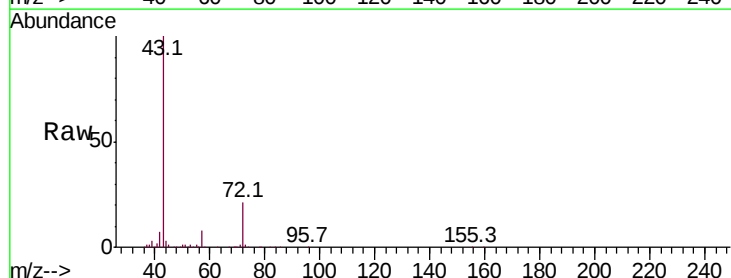
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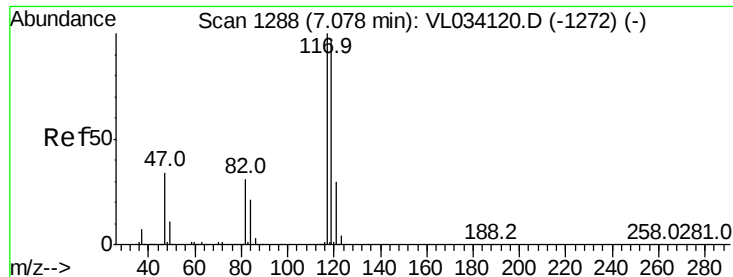
MMDadoda
 9/12/2019 5:15:20 AM



#34
 2-Butanone
 Concen: 8.870 ppbv
 RT: 5.27 min Scan# 726
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.8	16.5	24.7





#35

Carbon Tetrachloride

Concen: 8.647 ppbv

RT: 7.07 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1185875

Ion Ratio Lower Upper

117 100

119 97.3 77.2 115.8

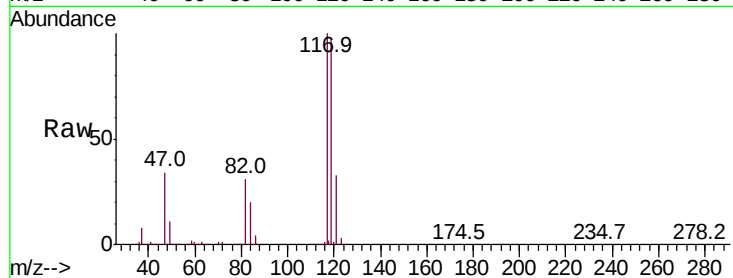
121 32.6 24.2 36.4

Manual Integrations

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MMDadoda

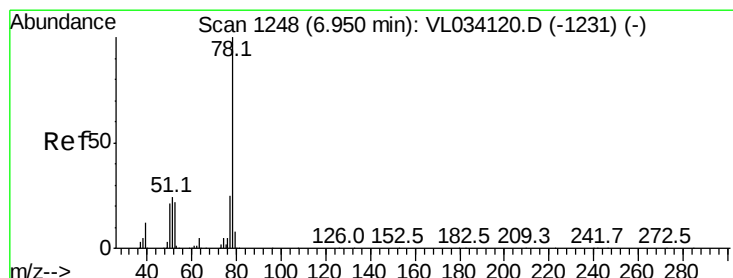
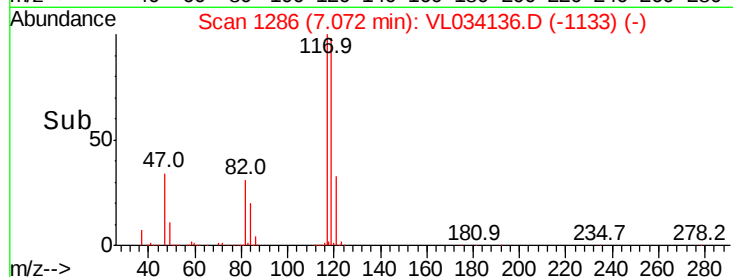
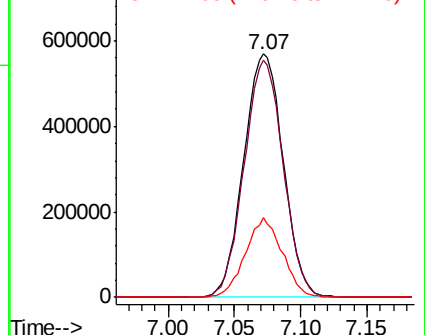
9/12/2019 5:15:20 AM



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: 9.010 ppbv

RT: 6.94 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

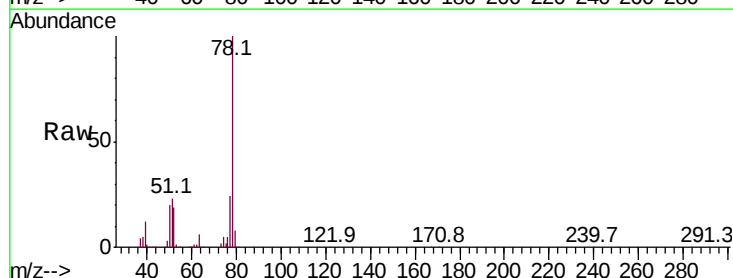
Tgt Ion: 78 Resp: 1811575

Ion Ratio Lower Upper

78 100

77 23.5 20.3 30.5

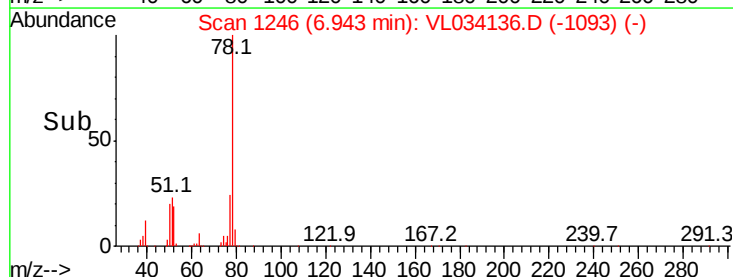
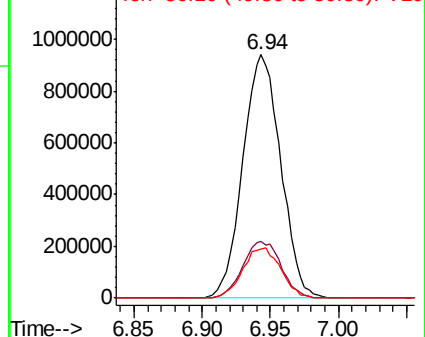
50 20.2 16.9 25.3

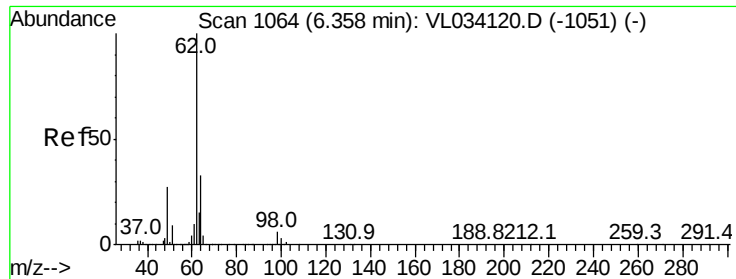


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





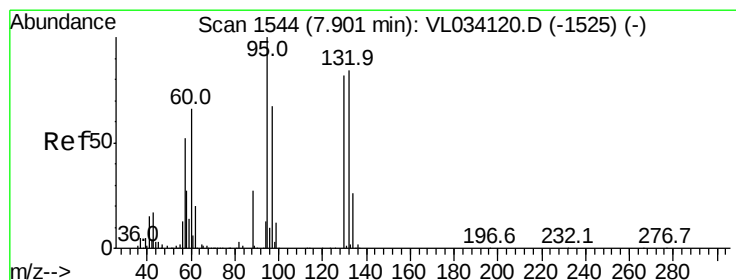
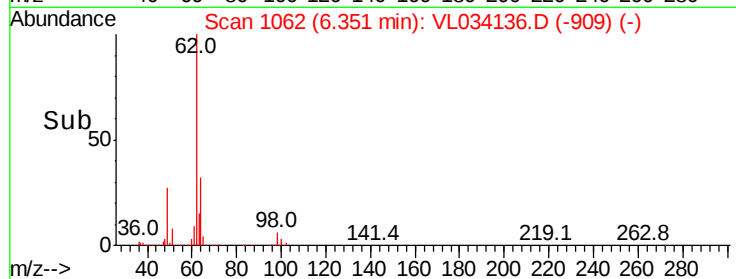
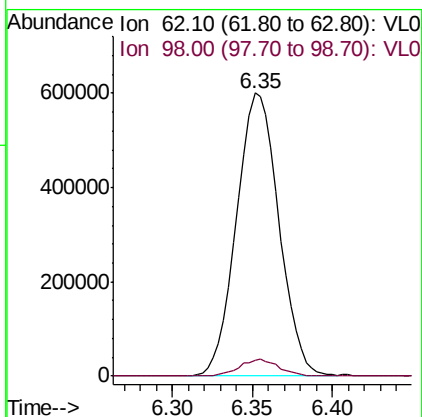
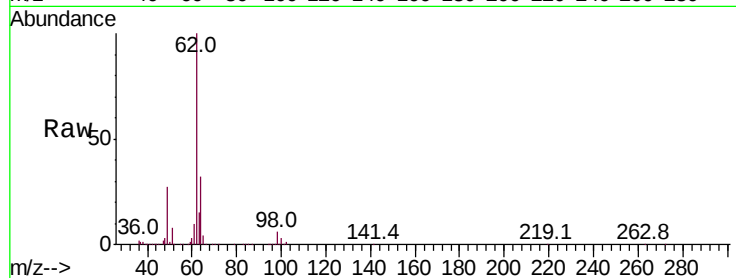
#37
 1,2-Dichloroethane
 Concen: 8.797 ppbv
 RT: 6.35 min Scan# 1062
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.4	6.6

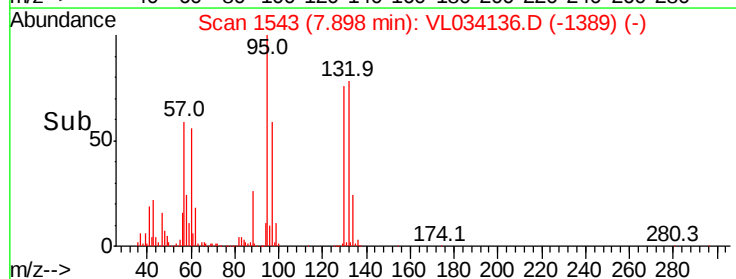
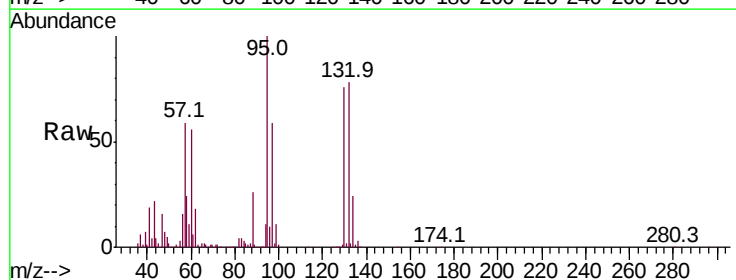
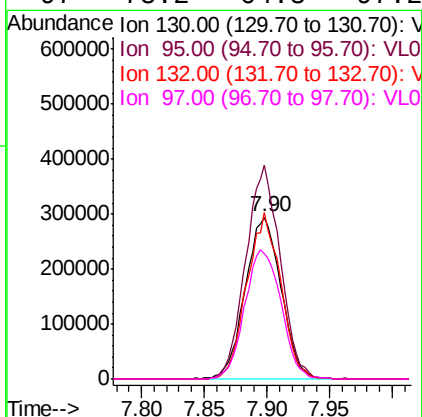
Manual Integrations
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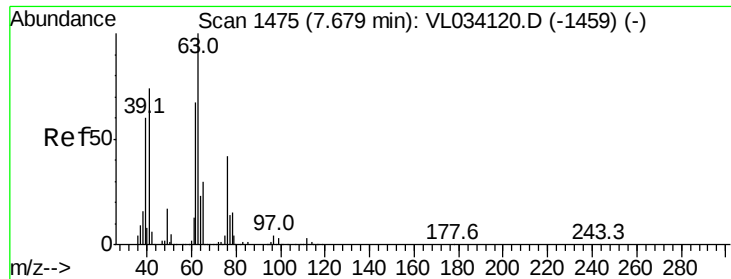
MMDadoda
 9/12/2019 5:15:20 AM



#38
 Trichloroethene
 Concen: 7.771 ppbv
 RT: 7.90 min Scan# 1543
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	132.5	97.2	145.8
132	103.0	81.4	122.2
97	78.2	64.8	97.2





#39

1,2-Dichloropropane

Concen: 8.949 ppbv

RT: 7.67 min Scan# 1473

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

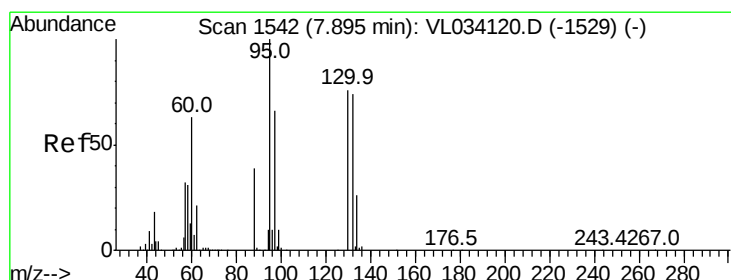
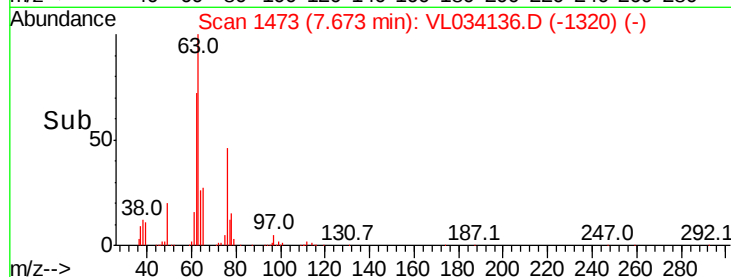
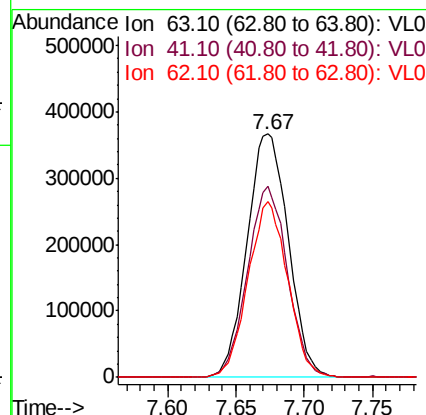
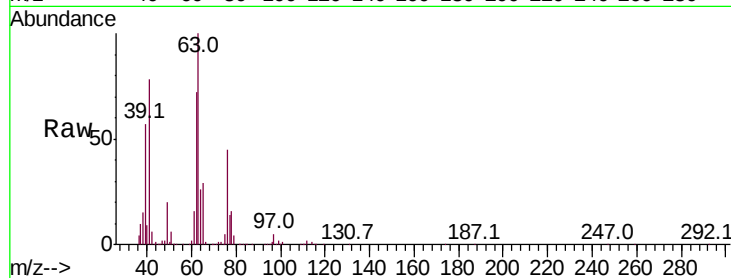
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	769992
Ion Ratio	Lower	Upper	
63	100		
41	78.3	59.3	88.9
62	71.9	53.8	80.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 8.962 ppbv

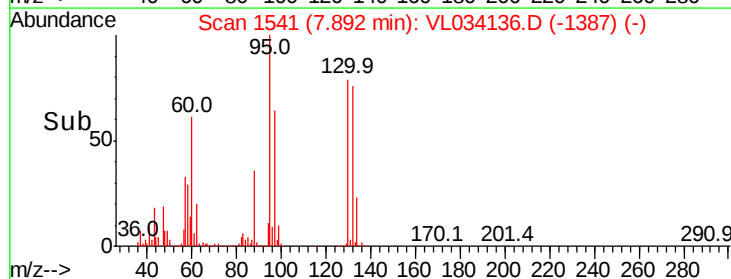
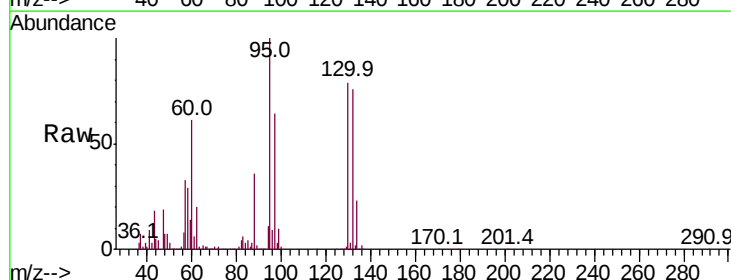
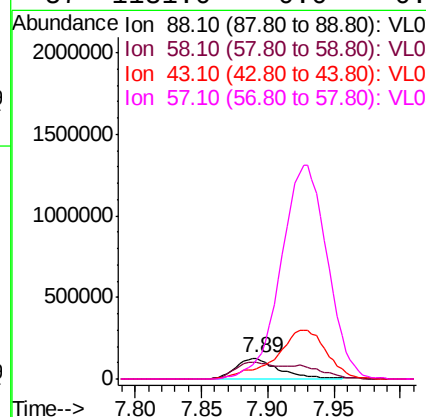
RT: 7.89 min Scan# 1541

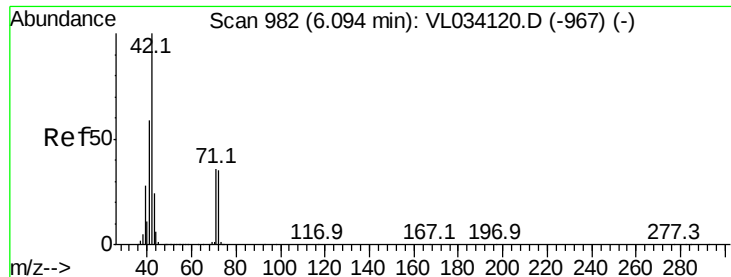
Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Tgt Ion:	88	Resp:	283378
Ion Ratio	Lower	Upper	
88	100		
58	137.3	121.7	182.5
43	284.4	0.0	0.0#
57	1131.0	0.0	0.0#





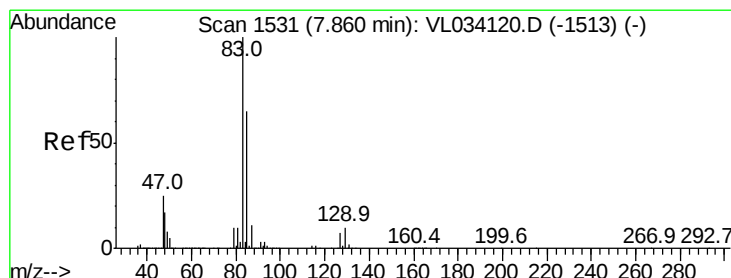
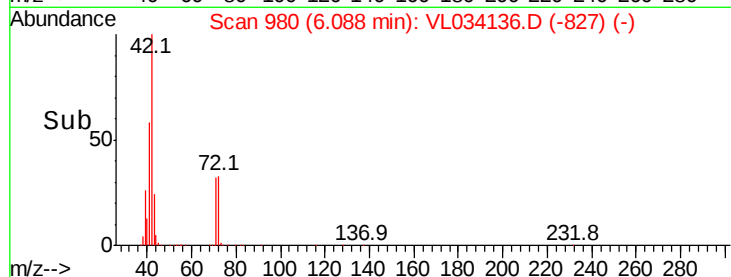
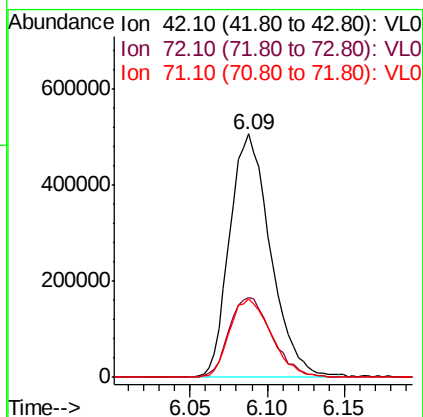
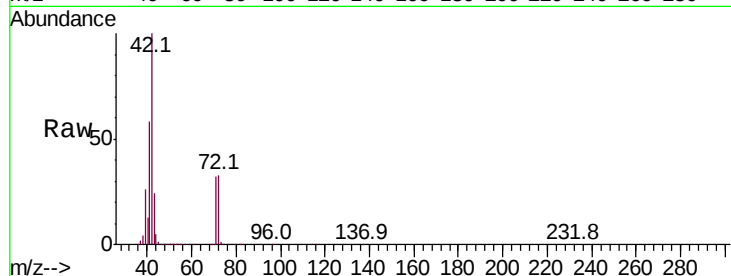
#41
Tetrahydrofuran
Concen: 9.150 ppbv
RT: 6.09 min Scan# 980
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.5	27.7	41.5
71	33.2	26.7	40.1

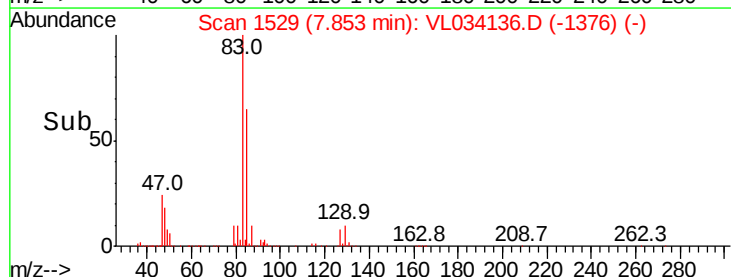
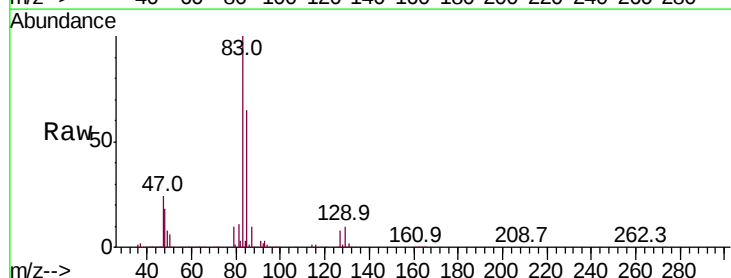
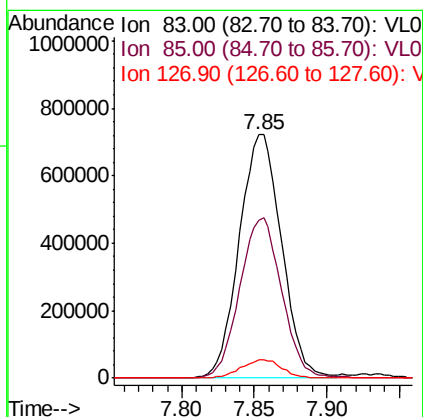
Manual Integrations
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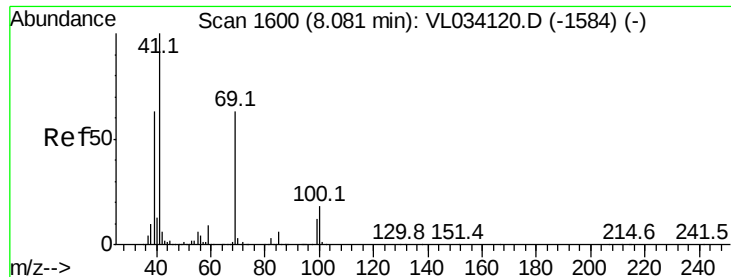
MMDadoda
9/12/2019 5:15:20 AM



#42
Bromodichloromethane
Concen: 9.108 ppbv
RT: 7.85 min Scan# 1529
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.6	77.4
127	7.5	5.4	8.0





#43

Methyl Methacrylate

Concen: 9.544 ppbv

RT: 8.07 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VL034136.D

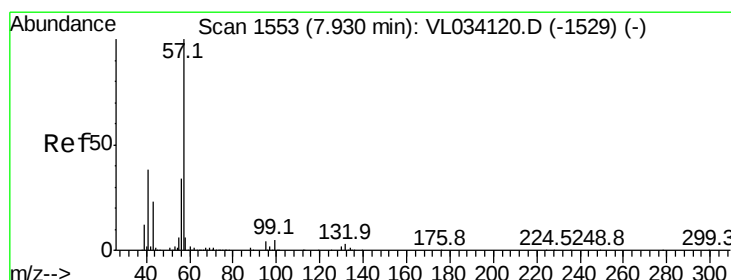
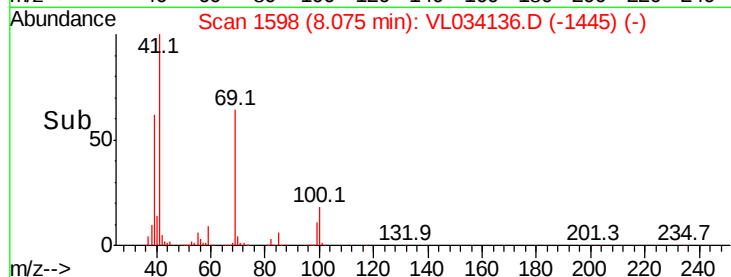
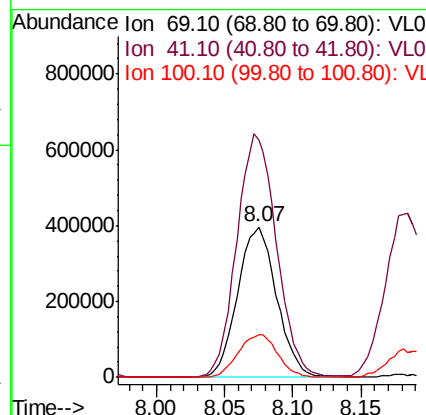
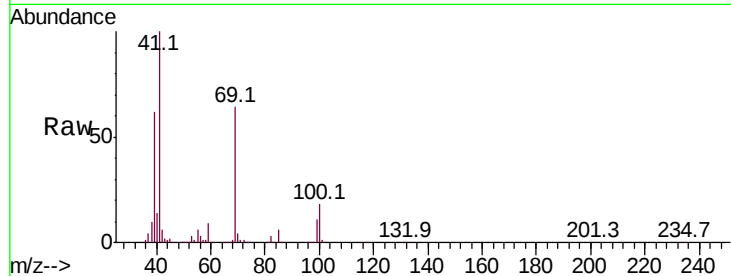
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	164.4	131.0	196.6
100	28.8	22.6	33.8

Manual Integrations
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MMDadoda
9/12/2019 5:15:20 AM



#44

2,2,4-Trimethylpentane

Concen: 8.635 ppbv

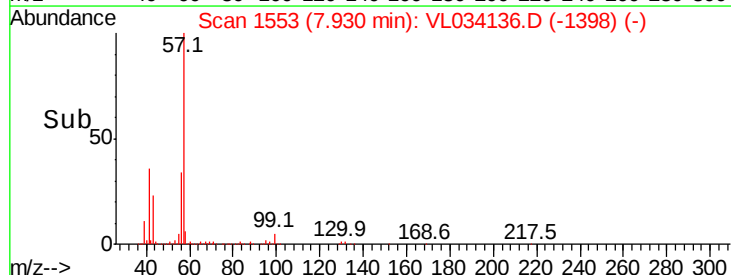
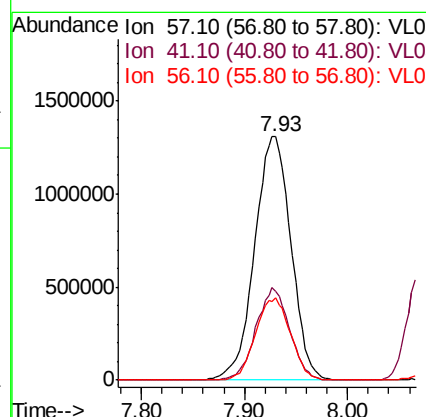
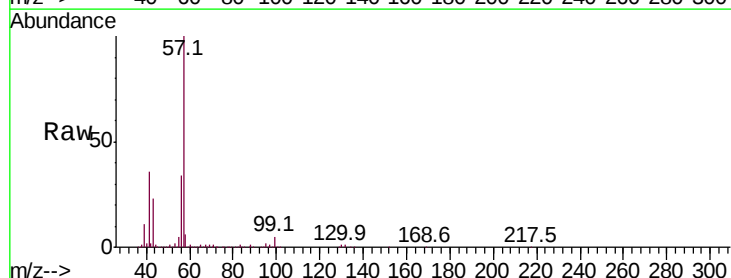
RT: 7.93 min Scan# 1553

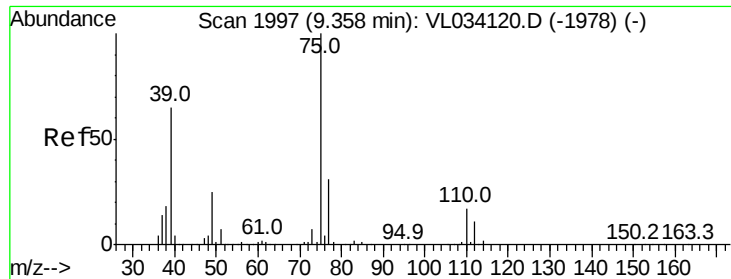
Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.0	28.4	42.6
56	32.4	26.3	39.5





#45

t-1,3-Dichloropropene

Concen: 9.330 ppbv

RT: 9.35 min Scan# 1994

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 908272

Ion Ratio Lower Upper

75 100

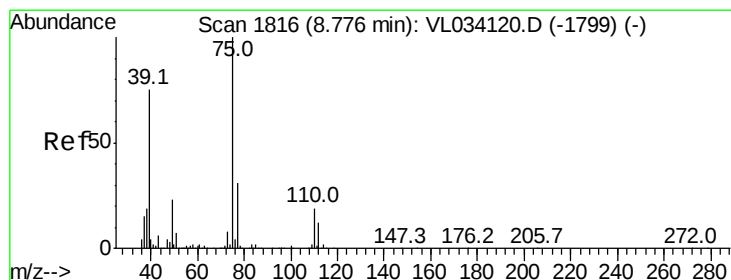
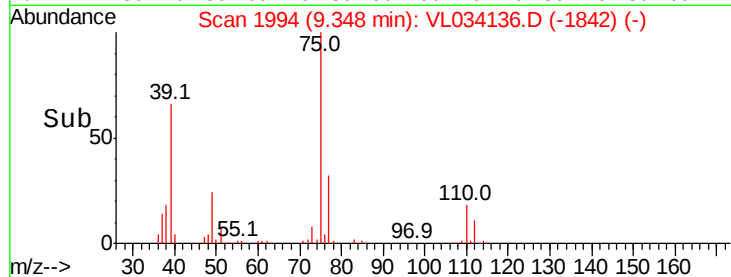
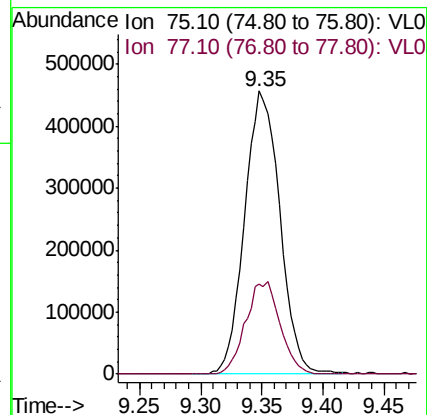
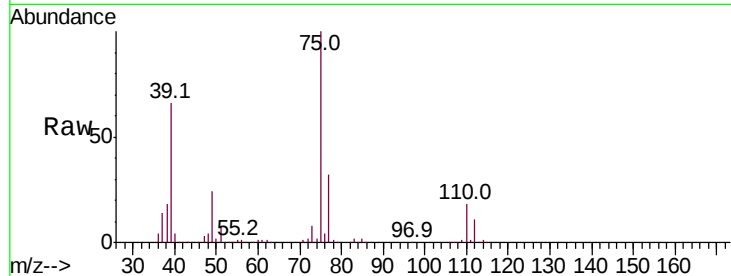
77 31.7 24.6 36.8

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#46

cis-1,3-Dichloropropene

Concen: 9.176 ppbv

RT: 8.77 min Scan# 1814

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

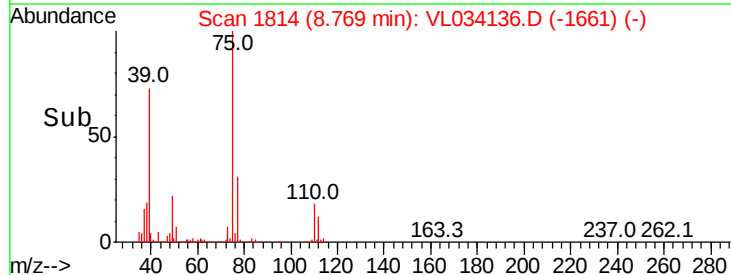
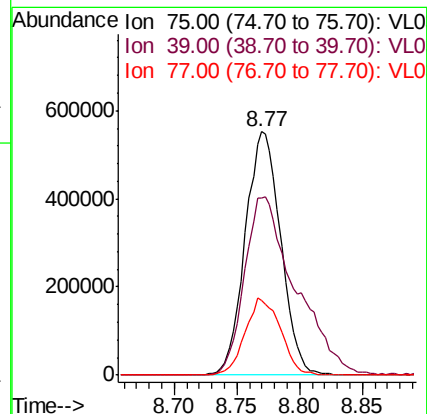
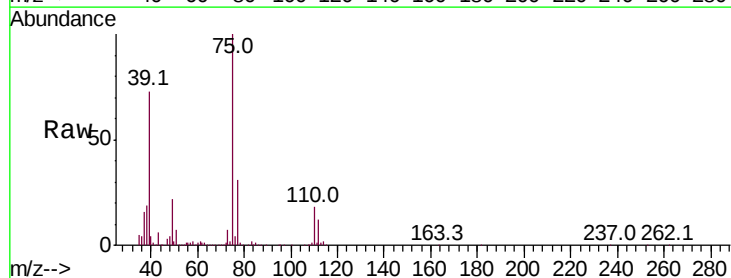
Tgt Ion: 75 Resp: 1086719

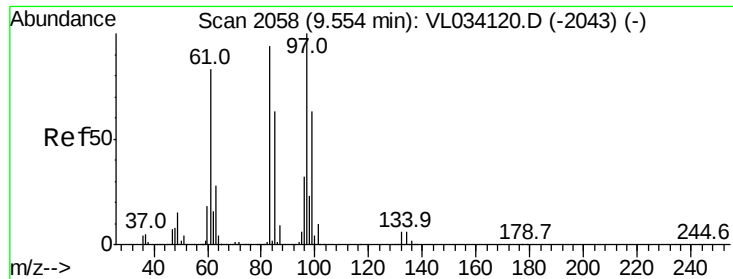
Ion Ratio Lower Upper

75 100

39 72.6 60.0 90.0

77 30.8 24.8 37.2





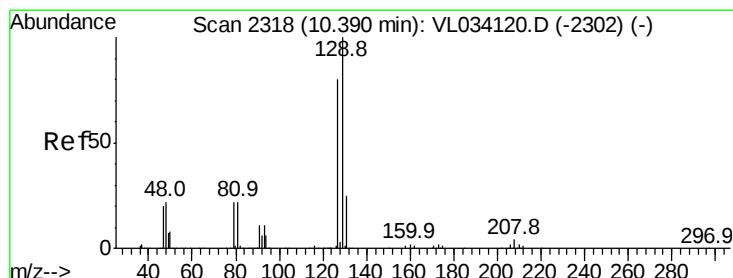
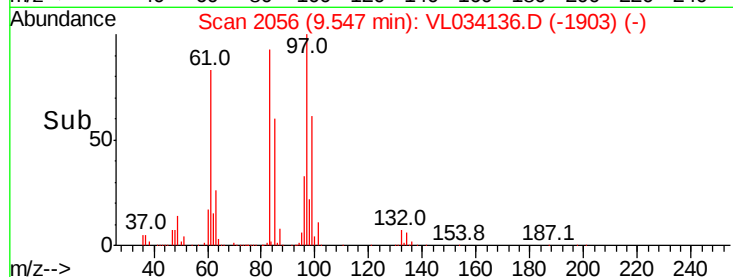
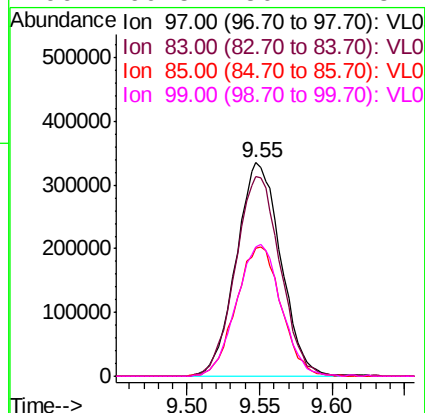
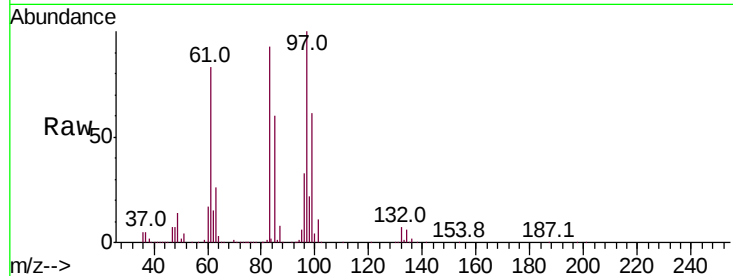
#47
 1,1,2-Trichloroethane
 Concen: 9.066 ppbv
 RT: 9.55 min Scan# 2056
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		710705		
83	93.3	74.9	112.3		
85	60.0	50.6	75.8		
99	60.5	50.2	75.2		

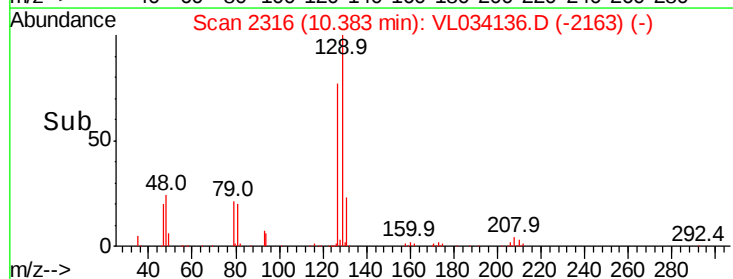
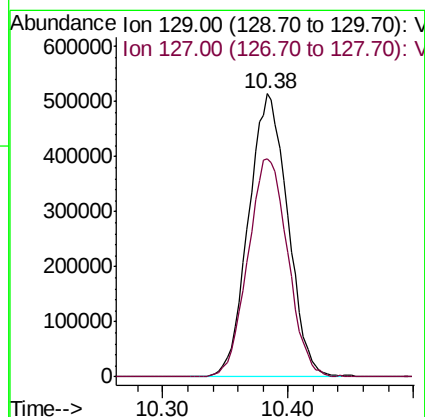
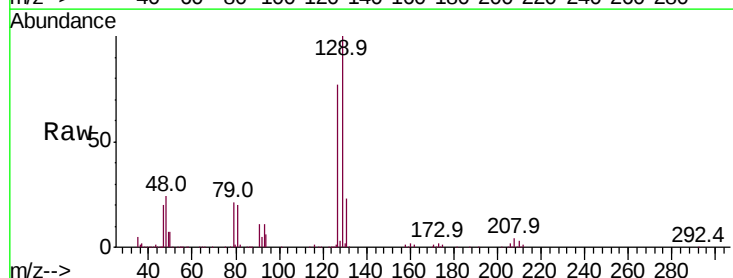
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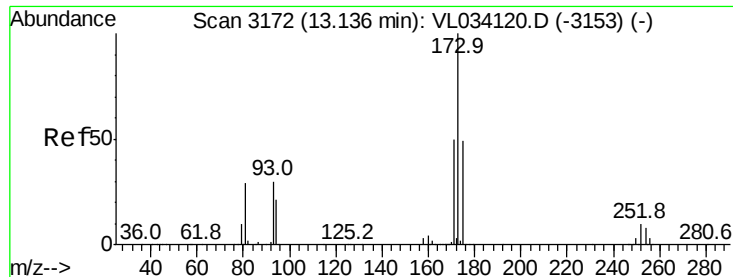
MMDadoda
 9/12/2019 5:15:20 AM



#48
 Dibromochloromethane
 Concen: 9.550 ppbv
 RT: 10.38 min Scan# 2316
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1117013		
127	78.5	40.2	120.6		





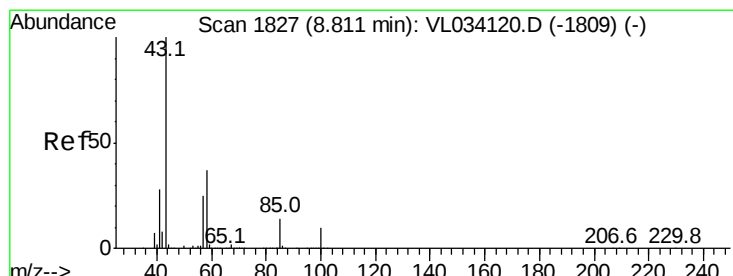
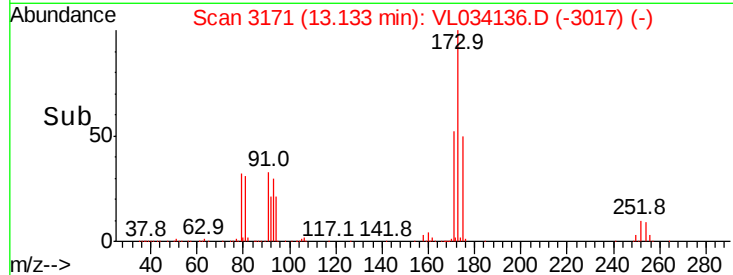
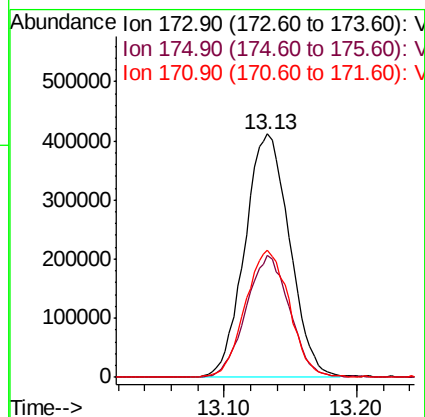
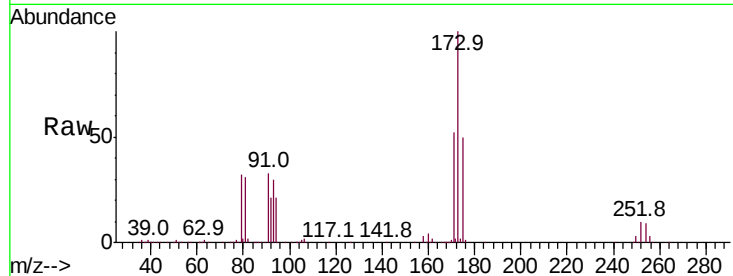
#49
Bromoform
Concen: 9.404 ppbv
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	40.0	60.0
171	51.8	42.2	63.2

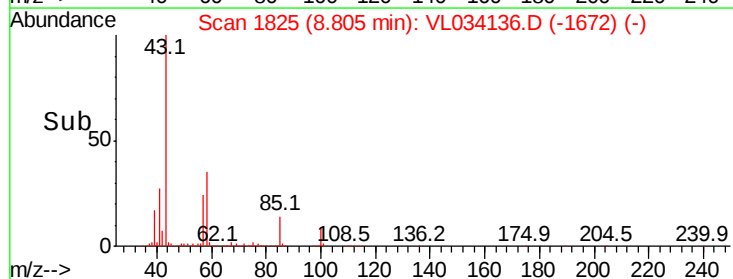
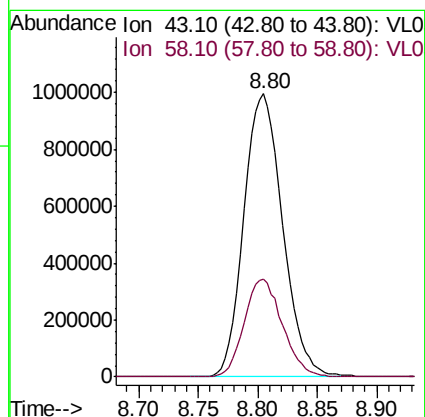
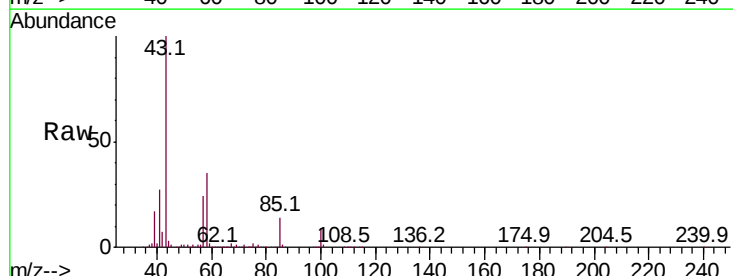
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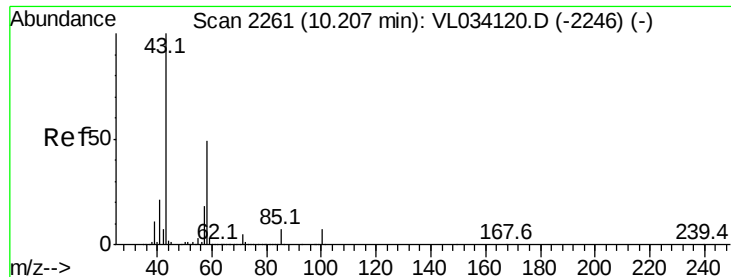
MMDadoda
9/12/2019 5:15:20 AM



#50
4-Methyl-2-Pentanone
Concen: 8.719 ppbv
RT: 8.80 min Scan# 1825
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.2	28.5	42.7





#51

2-Hexanone

Concen: 8.650 ppbv

RT: 10.20 min Scan# 2260

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1928168

Ion Ratio Lower Upper

43 100

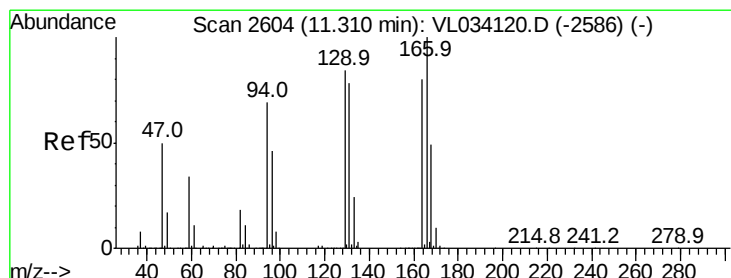
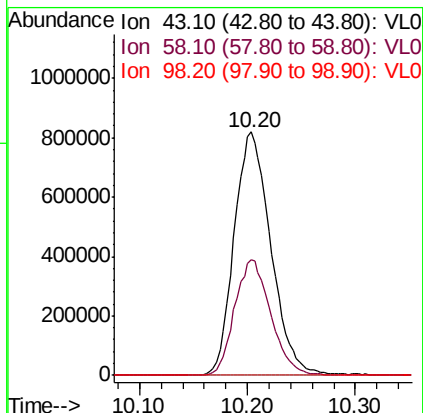
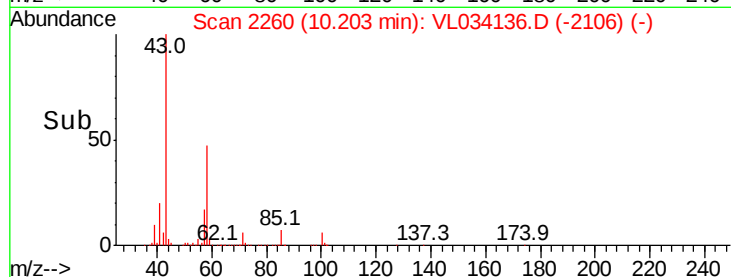
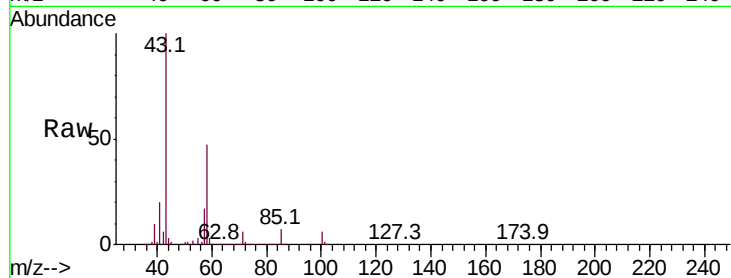
58 47.0 38.2 57.2

98 0.1 0.1 0.1

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#52

Tetrachloroethene

Concen: 8.134 ppbv

RT: 11.31 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Tgt Ion: 164 Resp: 576648

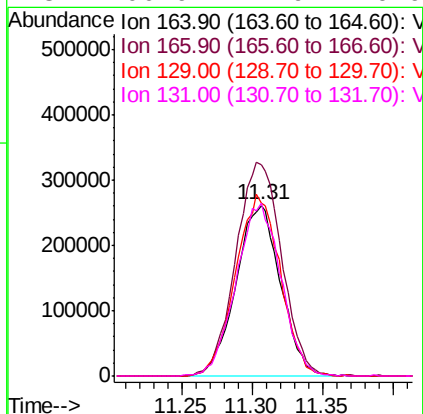
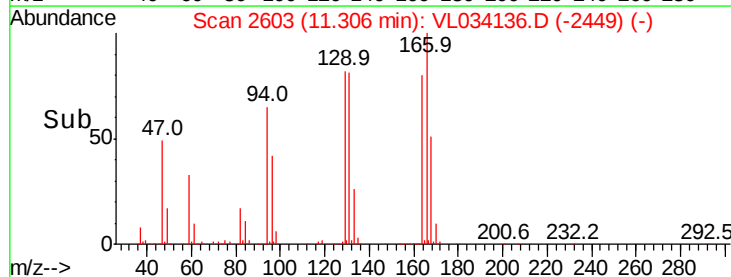
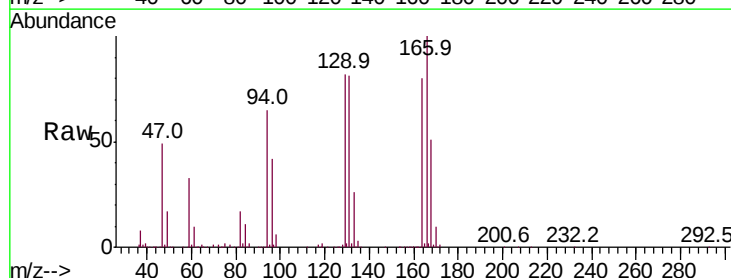
Ion Ratio Lower Upper

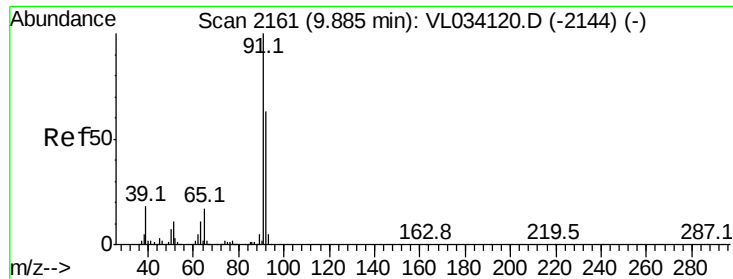
164 100

166 124.0 99.5 149.3

129 101.8 83.6 125.4

131 100.9 77.9 116.9





#53

Toluene

Concen: 9.163 ppbv

RT: 9.88 min Scan# 2159

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2037489

Ion Ratio Lower Upper

91 100

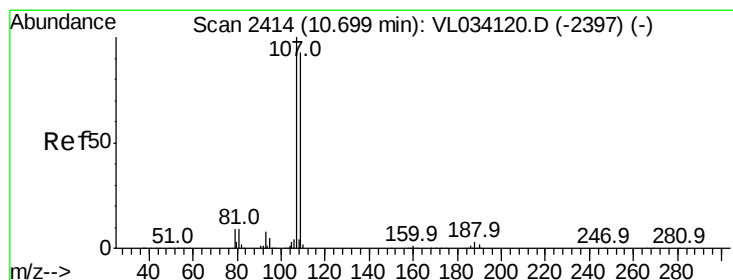
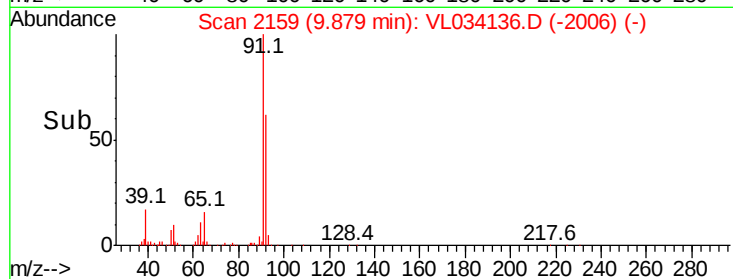
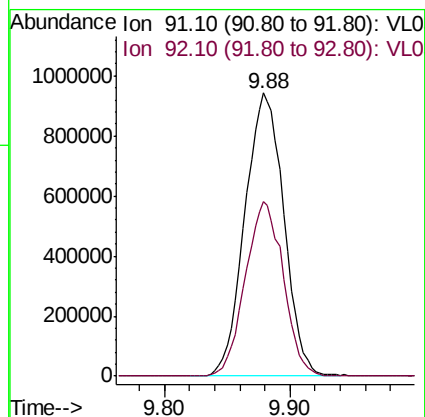
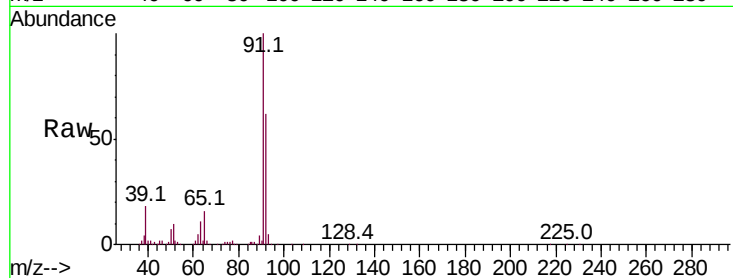
92 60.2 49.3 73.9

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#54

1,2-Dibromoethane

Concen: 9.212 ppbv

RT: 10.69 min Scan# 2411

Delta R.T. -0.01 min

Lab File: VL034136.D

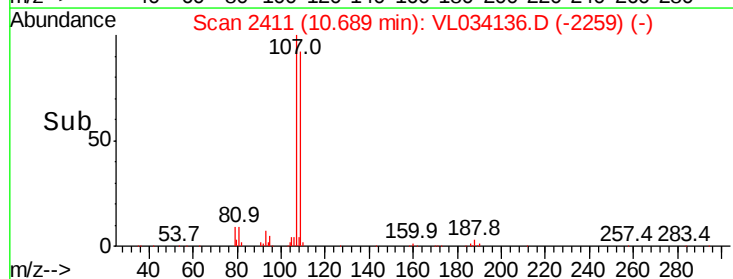
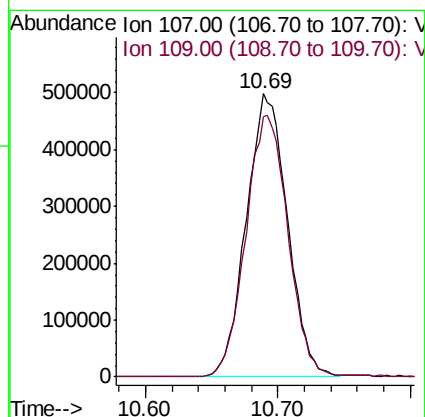
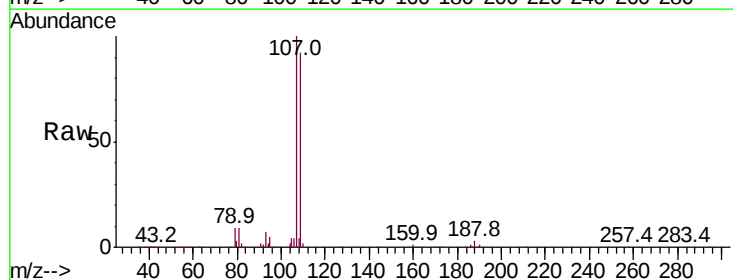
Acq: 5 Sep 2019 15:04

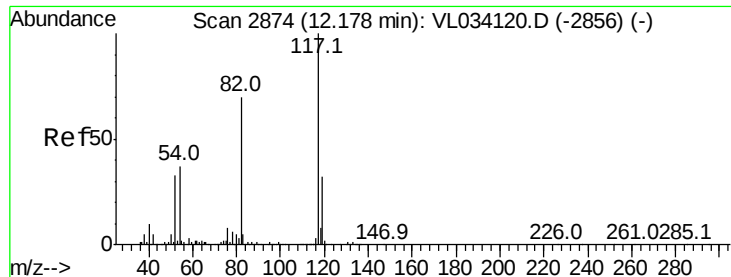
Tgt Ion: 107 Resp: 1075827

Ion Ratio Lower Upper

107 100

109 91.9 74.5 111.7





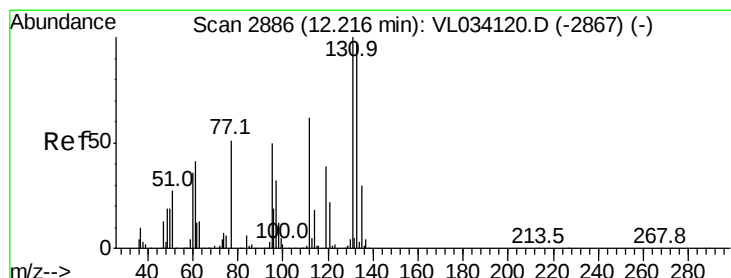
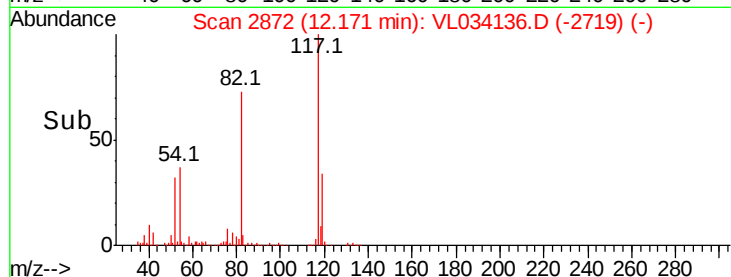
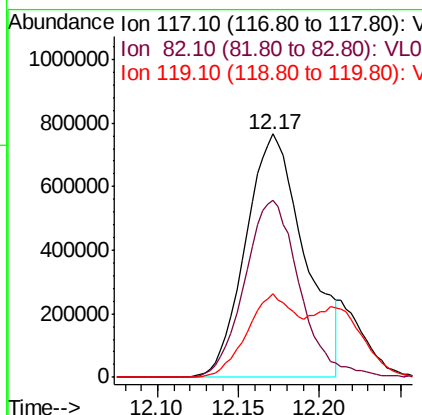
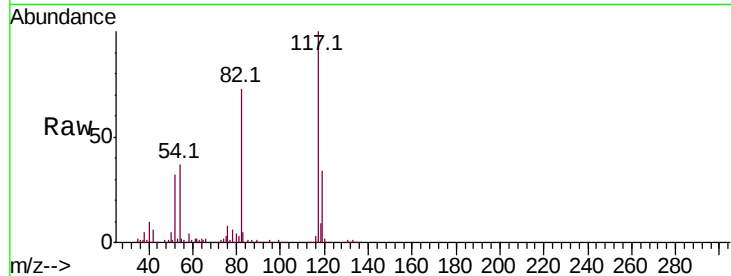
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.17 min Scan# 2872
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.3	55.8	83.6
119	54.2	43.1	64.7

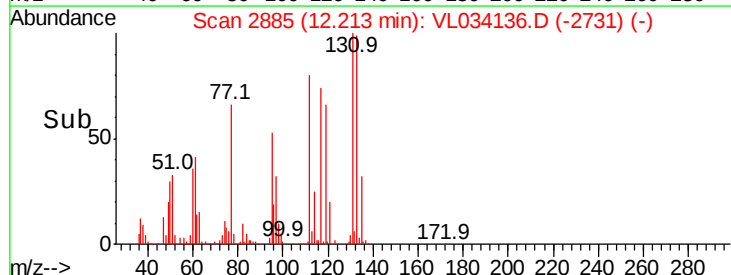
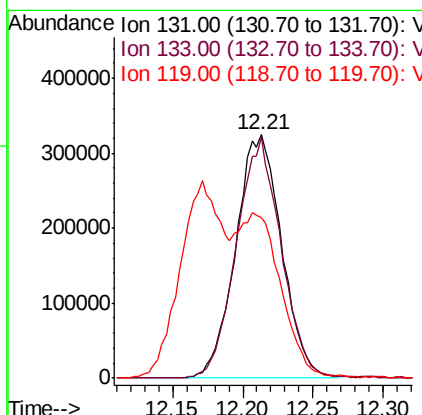
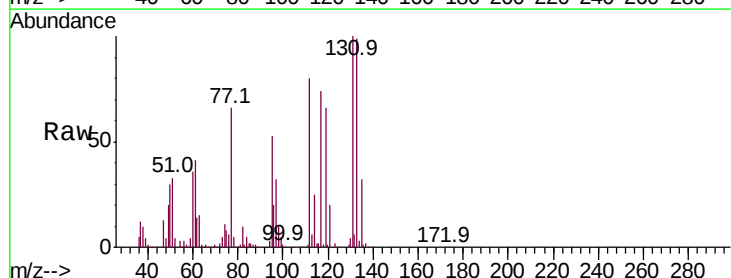
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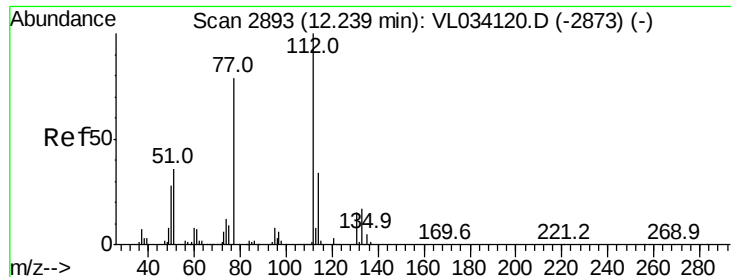
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.789 ppbv
RT: 12.21 min Scan# 2885
Delta R.T. -0.00 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.9	75.8	113.6
119	143.7	114.7	172.1





#57

Chlorobenzene

Concen: 8.322 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 1395333

Ion Ratio Lower Upper

112 100

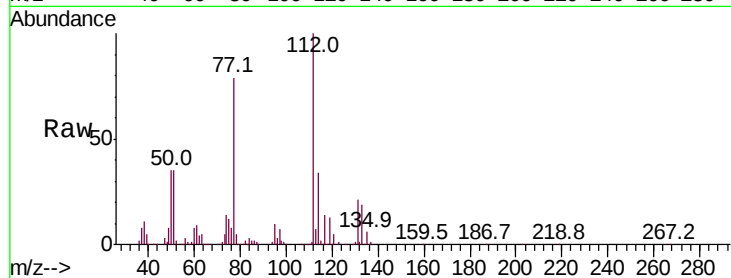
77 78.5 64.4 96.6

114 34.1 30.3 37.1

Manual Integrations
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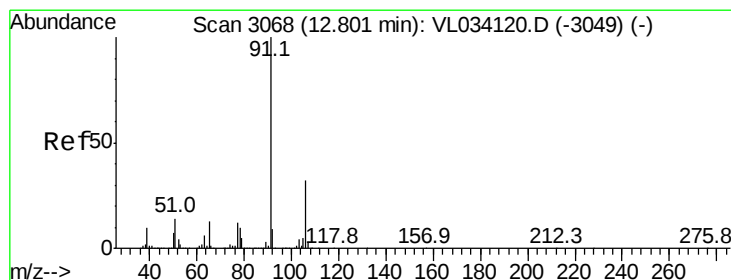
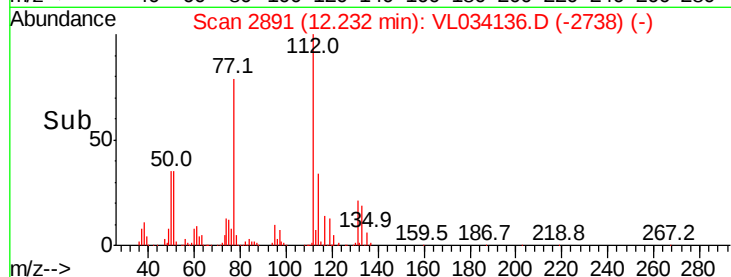
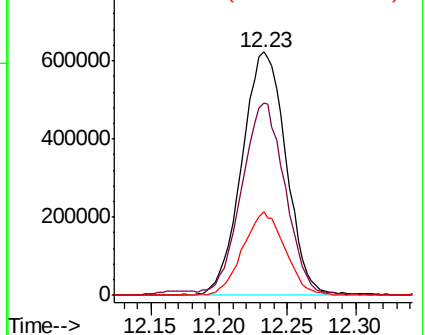
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.608 ppbv

RT: 12.80 min Scan# 3067

Delta R.T. -0.00 min

Lab File: VL034136.D

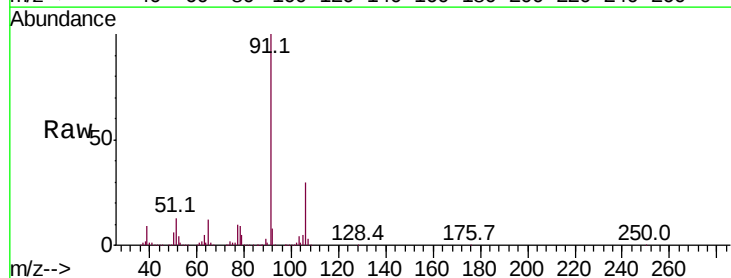
Acq: 5 Sep 2019 15:04

Tgt Ion: 91 Resp: 2751387

Ion Ratio Lower Upper

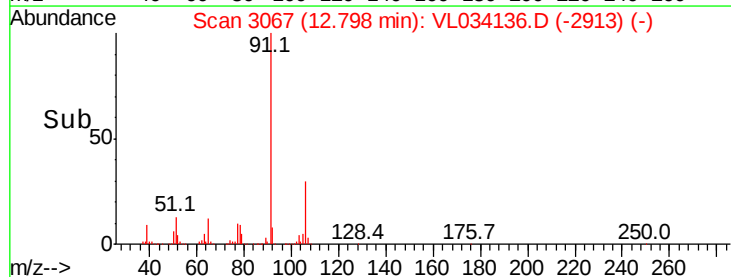
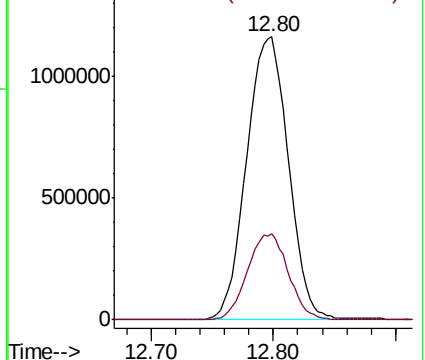
91 100

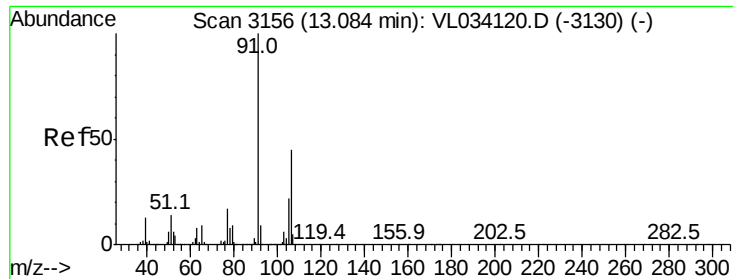
106 30.3 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





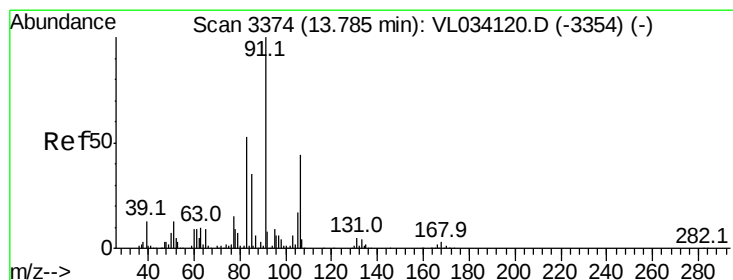
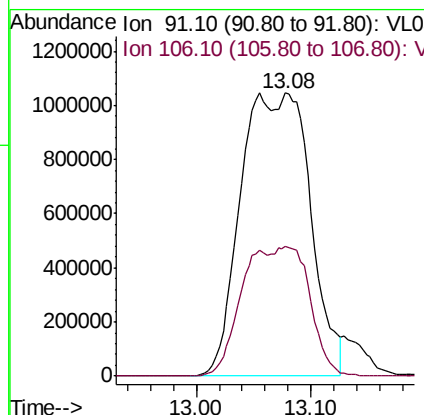
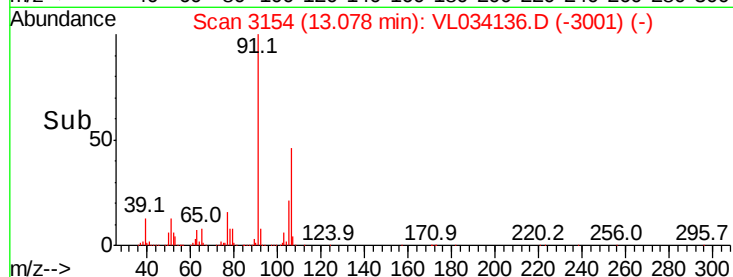
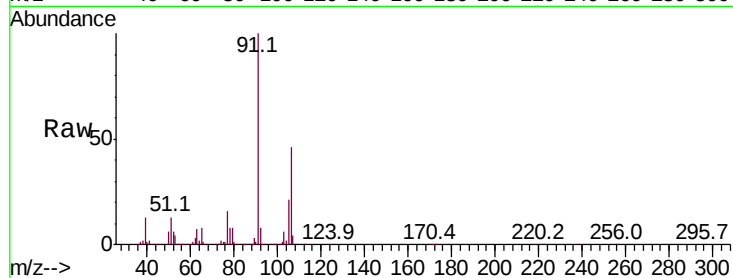
#59
m/p-Xylene
Concen: 16.916 ppbv m
RT: 13.08 min Scan# 3154
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4410499
Ion Ratio Lower Upper
91 100
106 44.4 35.4 53.2

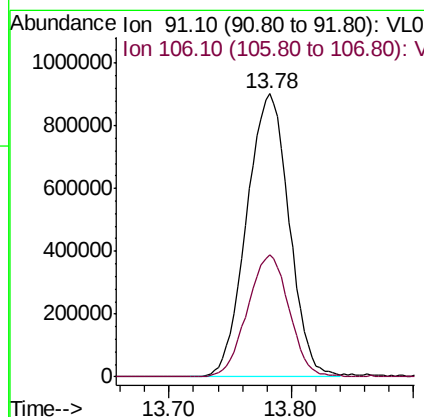
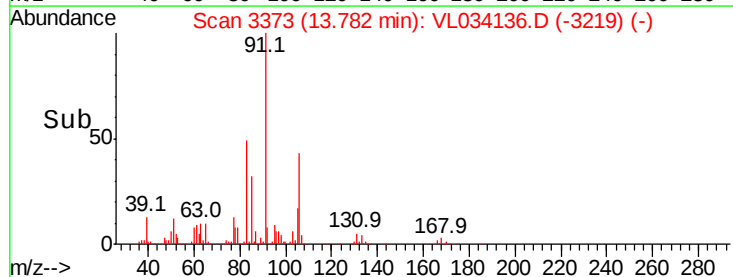
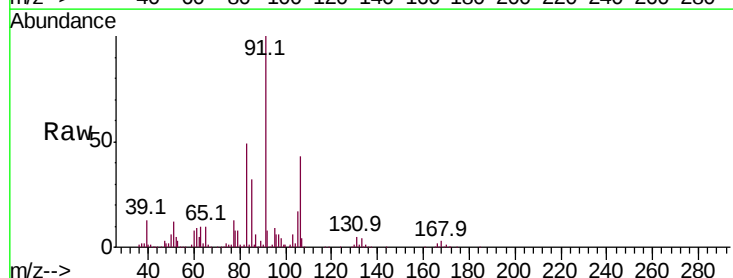
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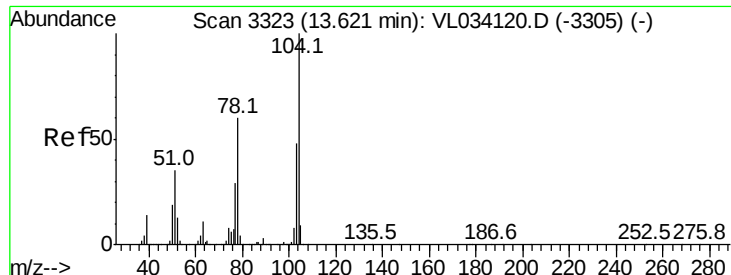
MMDadoda
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#60
o-Xylene
Concen: 8.357 ppbv
RT: 13.78 min Scan# 3373
Delta R.T. -0.00 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion: 91 Resp: 2170231
Ion Ratio Lower Upper
91 100
106 42.6 21.4 64.3





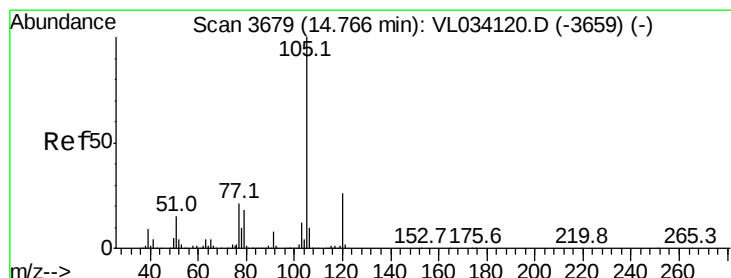
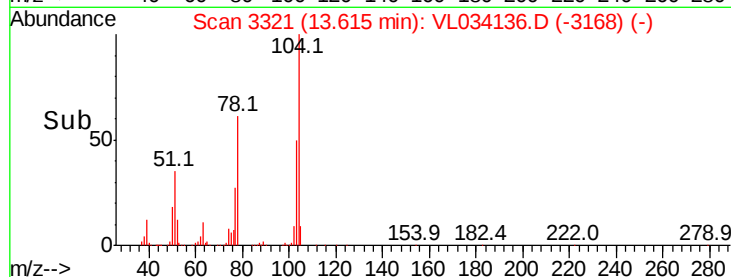
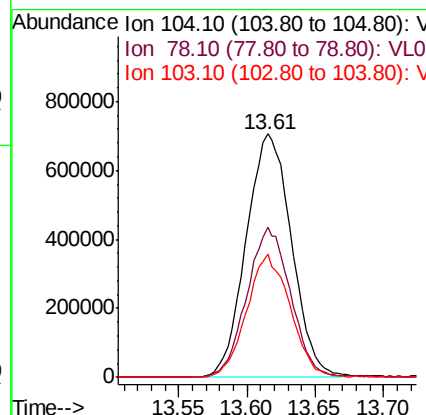
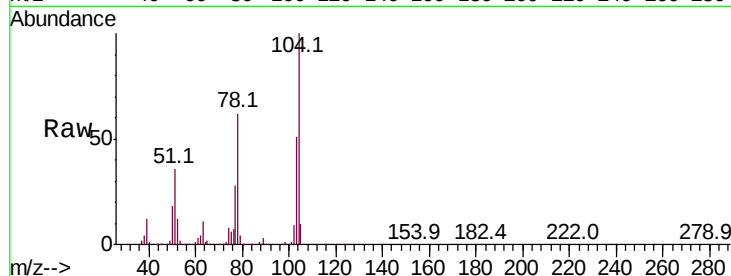
#61
Stvrene
Concen: 8.384 ppbv
RT: 13.61 min Scan# 3321
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.8	47.8	71.6
103	48.7	38.7	58.1

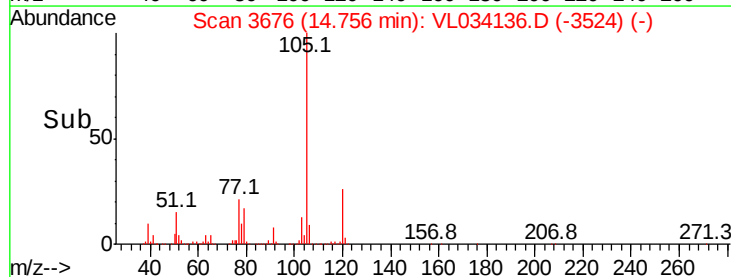
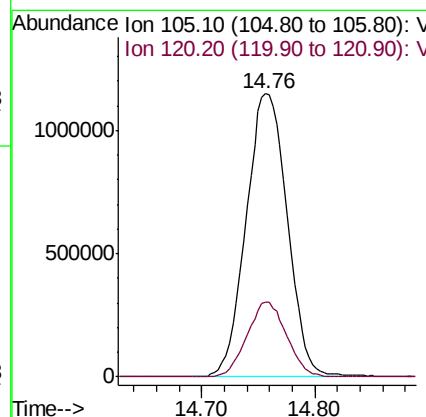
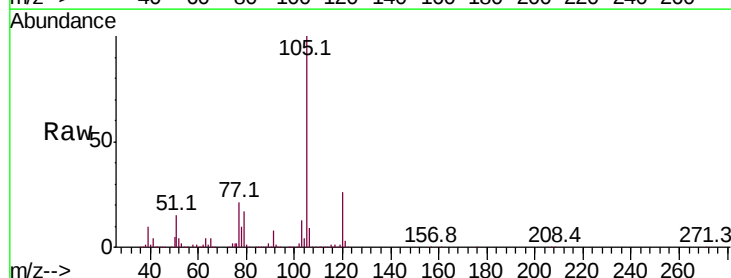
Manual Integrations
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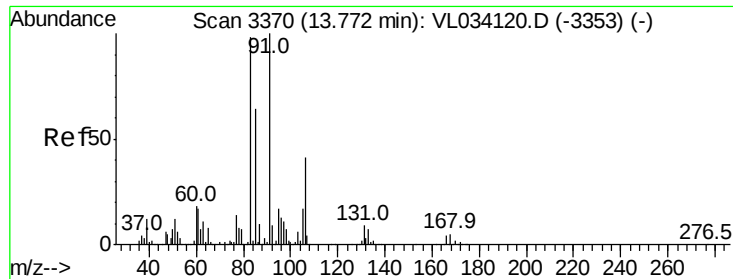
MMDadoda
9/12/2019 5:15:20 AM



#62
Isopropylbenzene
Concen: 8.590 ppbv
RT: 14.76 min Scan# 3676
Delta R.T. -0.01 min
Lab File: VL034136.D
Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 7.532 ppbv

RT: 13.77 min Scan# 3368

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1594056

Ion Ratio Lower Upper

83 100

131 8.6 4.3 12.8

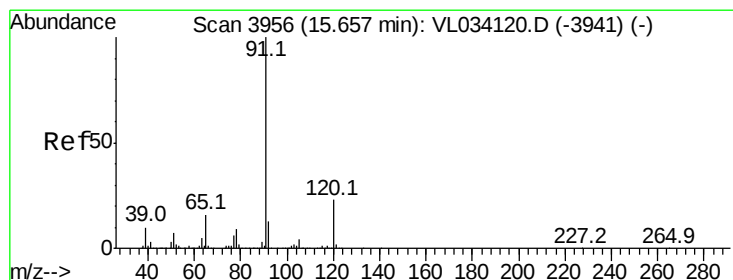
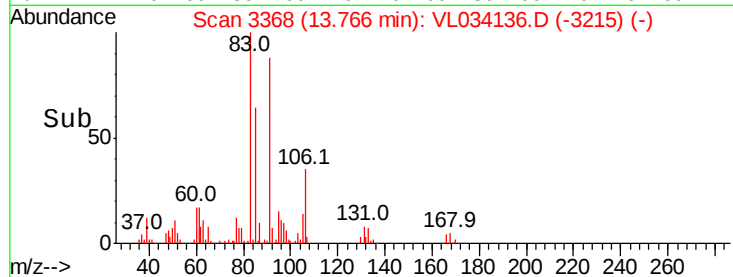
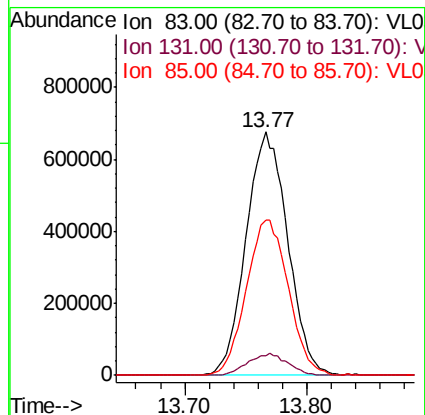
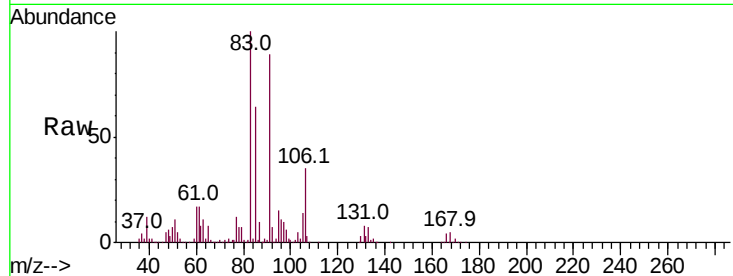
85 64.7 32.5 97.5

Manual Integrations

APPROVED

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9/12/2019 5:15:20 AM



#64

n-propylbenzene

Concen: 8.921 ppbv

RT: 15.66 min Scan# 3956

Delta R.T. -0.00 min

Lab File: VL034136.D

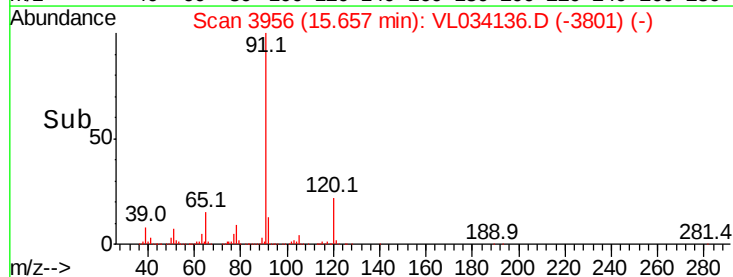
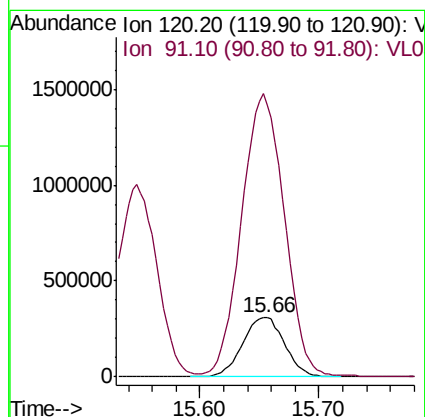
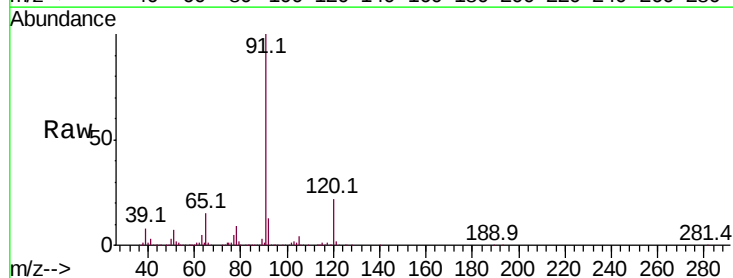
Acq: 5 Sep 2019 15:04

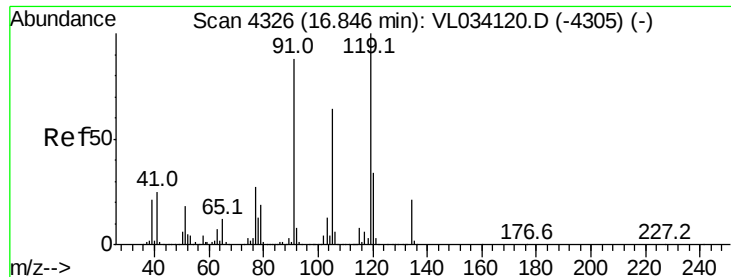
Tgt Ion: 120 Resp: 755106

Ion Ratio Lower Upper

120 100

91 487.3 376.8 565.2





#65

tert-Butylbenzene

Concen: 8.418 ppbv

RT: 16.84 min Scan# 4325

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2454823

Ion Ratio Lower Upper

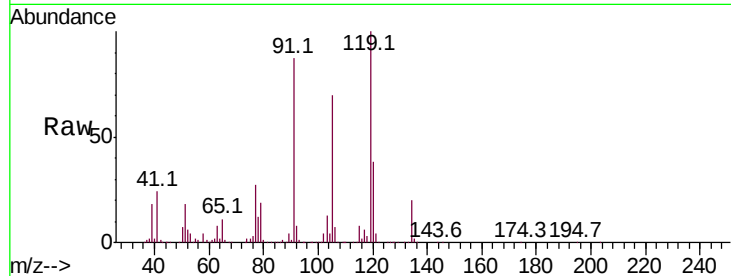
119 100

91 90.9 72.8 109.2

134 19.7 15.8 23.8

Manual Integrations
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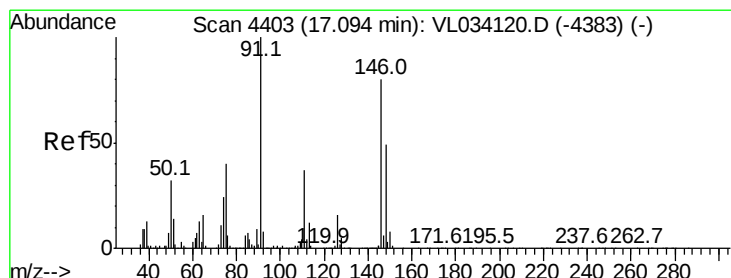
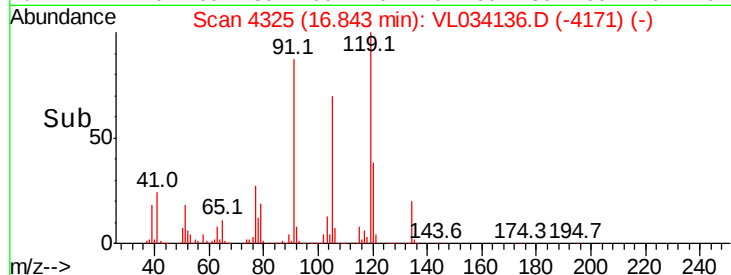
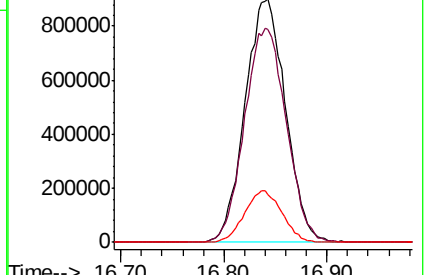
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 8.805 ppbv

RT: 17.09 min Scan# 4401

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

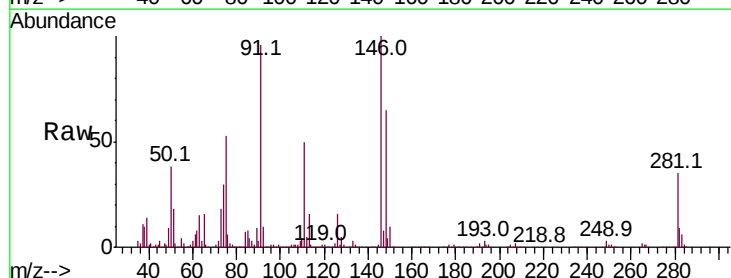
Tgt Ion: 91 Resp: 946689

Ion Ratio Lower Upper

91 100

126 17.0 13.7 20.5

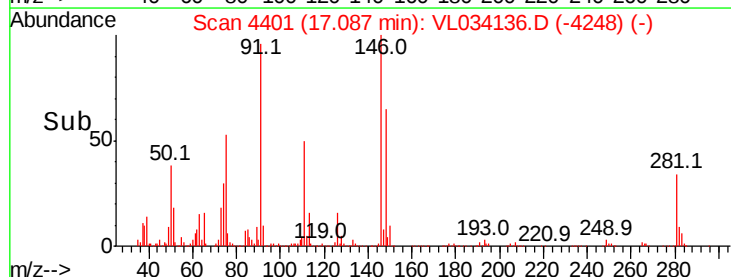
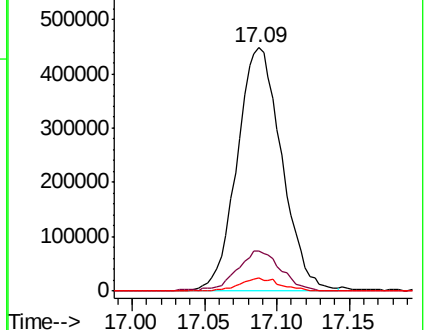
128 5.0 4.2 6.4

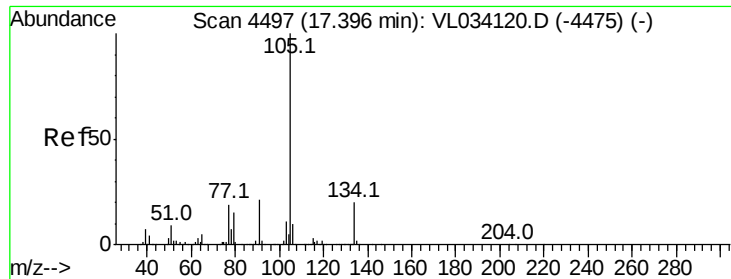


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





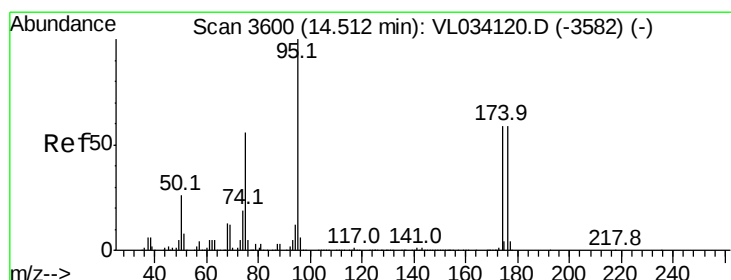
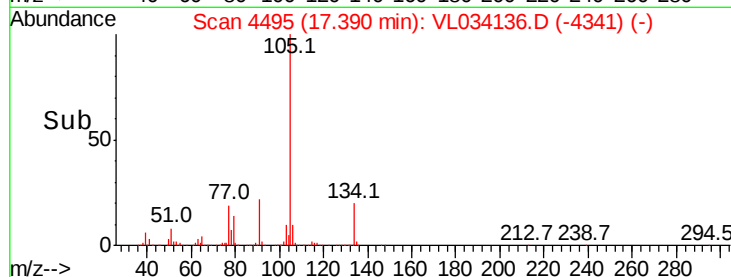
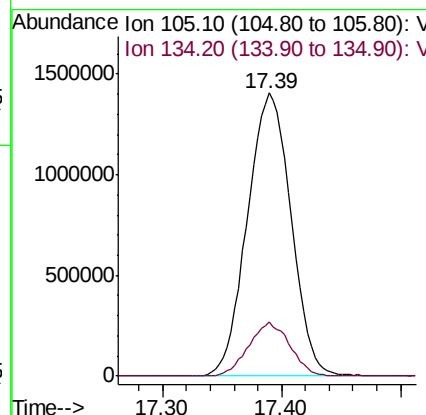
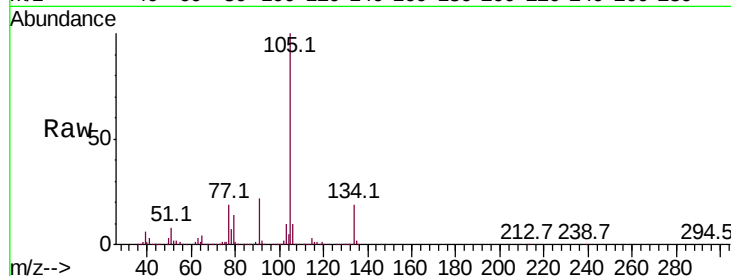
#67
 sec-Butylbenzene
 Concen: 8.505 ppbv
 RT: 17.39 min Scan# 4495
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 3566398
 Ion Ratio Lower Upper
 105 100
 134 18.0 15.0 22.4

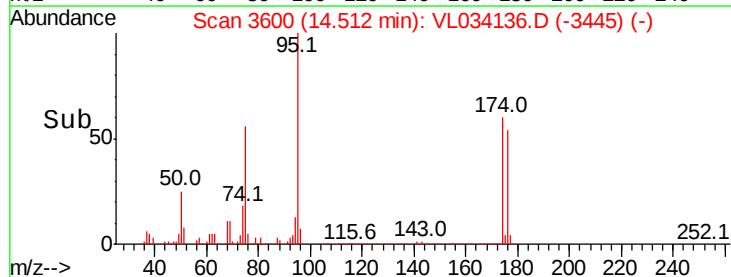
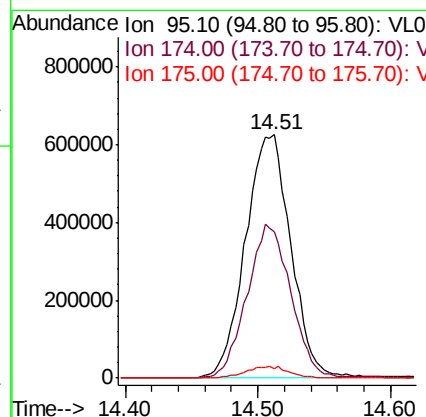
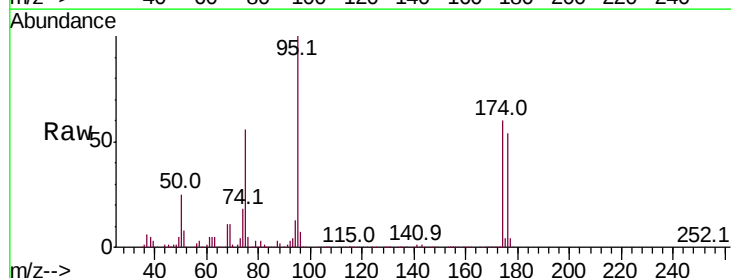
Manual Integrations
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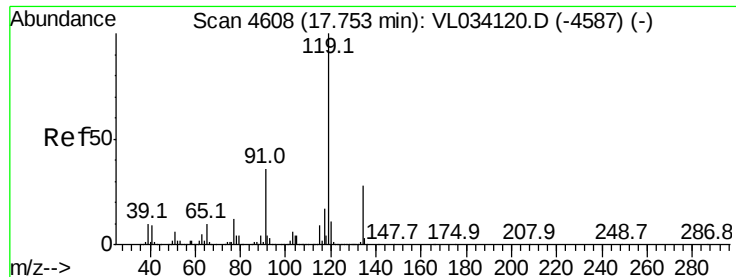
MMDadoda
 9/12/2019 5:15:20 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.293 ppbv
 RT: 14.51 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion: 95 Resp: 1480844
 Ion Ratio Lower Upper
 95 100
 174 61.6 48.1 72.1
 175 4.5 3.5 5.3





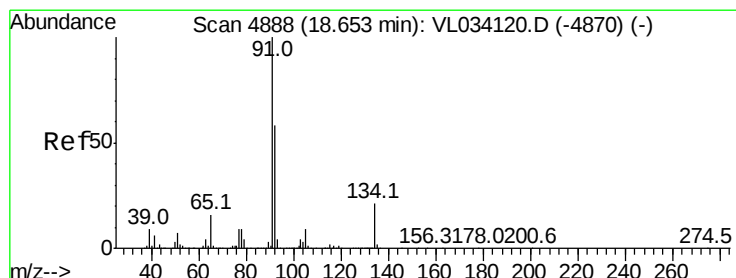
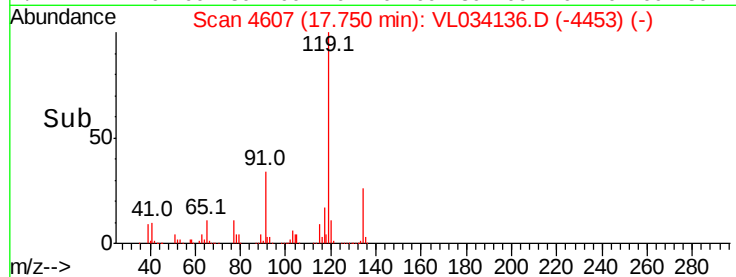
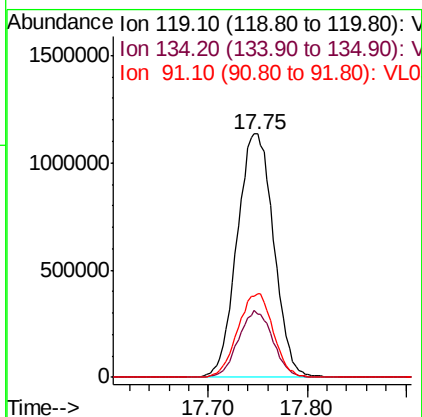
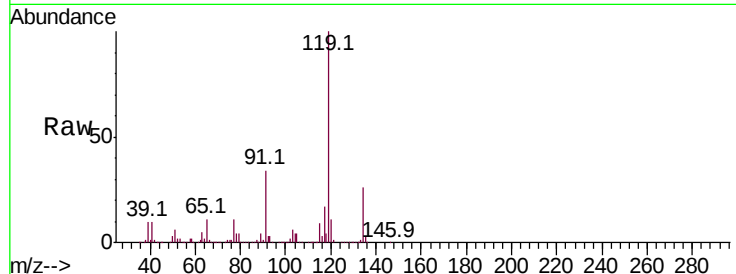
#69
 p-Isopropyltoluene
 Concen: 8.673 ppbv
 RT: 17.75 min Scan# 4607
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.8	31.2
91	33.5	27.2	40.8

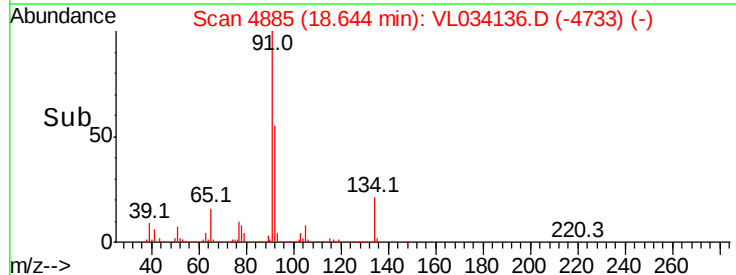
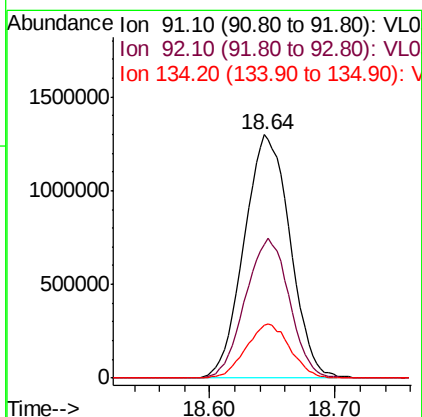
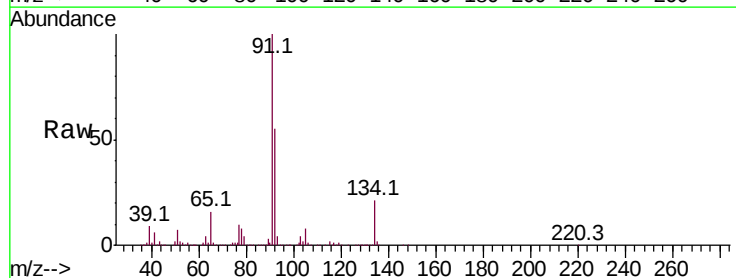
Manual Integrations
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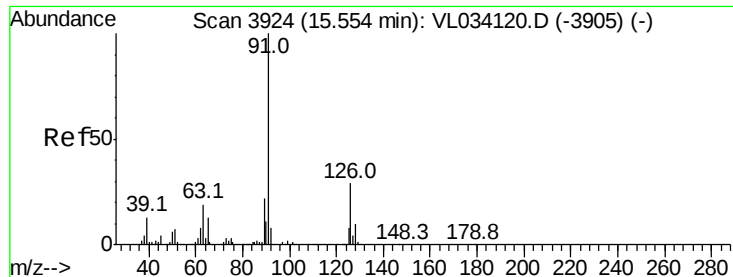
MMDadoda
 9/12/2019 5:15:20 AM



#70
 n-Butylbenzene
 Concen: 8.641 ppbv
 RT: 18.64 min Scan# 4885
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.4	45.3	67.9
134	21.3	17.4	26.0





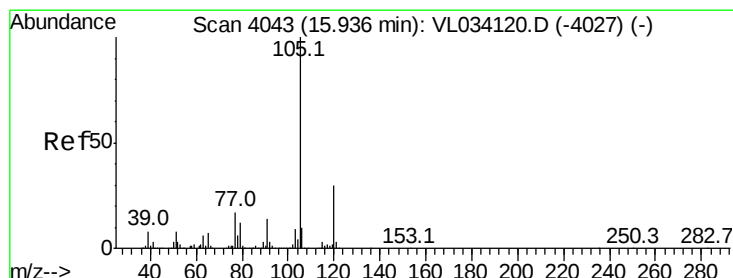
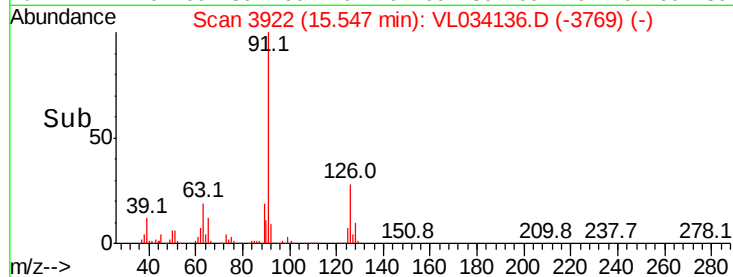
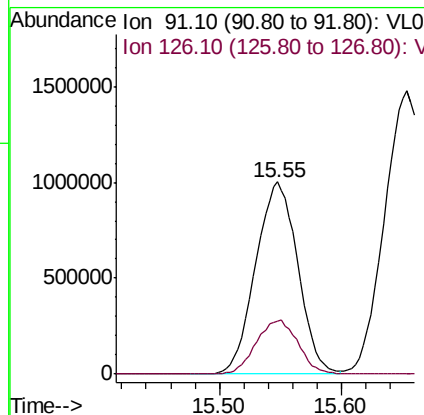
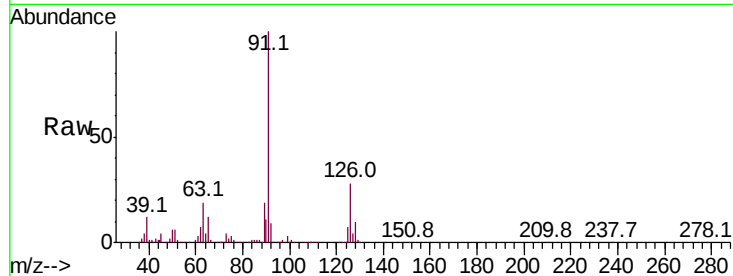
#71
 2-Chlorotoluene
 Concen: 8.699 ppbv
 RT: 15.55 min Scan# 3922
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2401096
 Ion Ratio Lower Upper
 91 100
 126 28.1 11.4 45.4

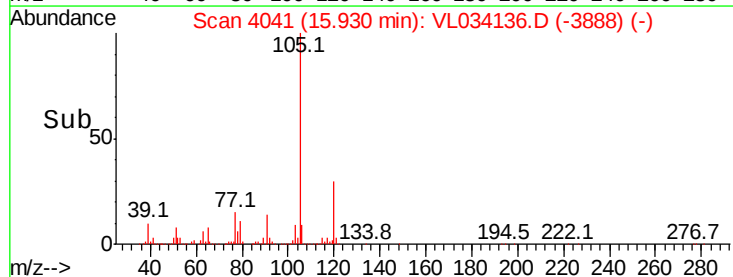
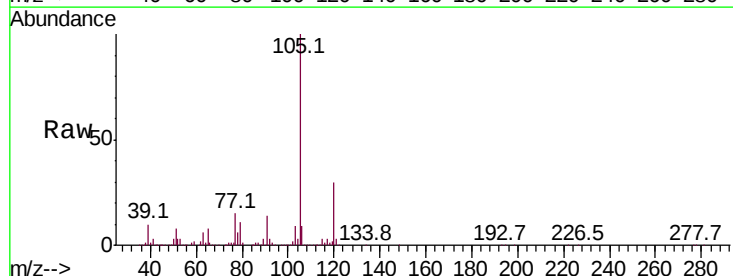
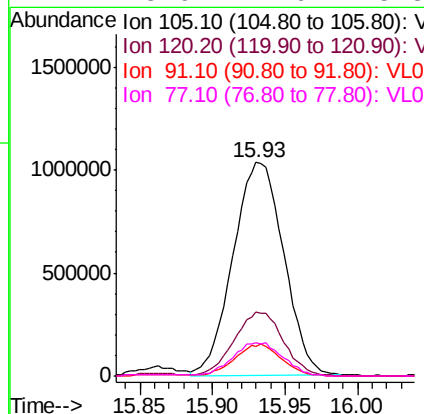
Manual Integrations
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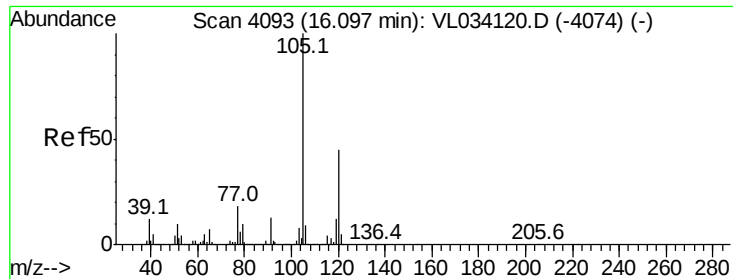
MMDadoda
 9/12/2019 5:15:20 AM



#72
 4-Ethyltoluene
 Concen: 8.560 ppbv
 RT: 15.93 min Scan# 4041
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion: 105 Resp: 2508095
 Ion Ratio Lower Upper
 105 100
 120 29.3 23.8 35.6
 91 13.9 11.4 17.0
 77 15.6 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 8.529 ppbv

RT: 16.09 min Scan# 4091

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2428891

Ion Ratio Lower Upper

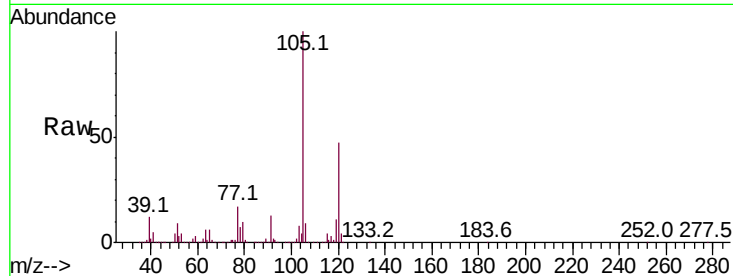
105 100

120 47.1 35.8 53.8

Manual Integrations
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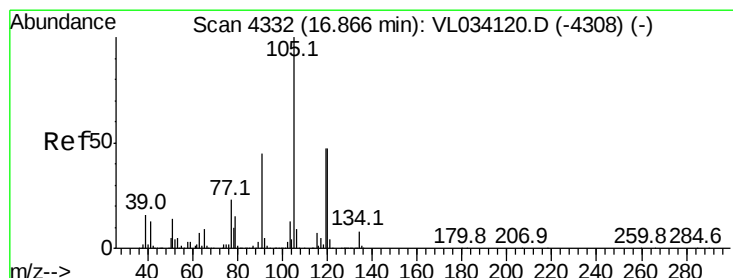
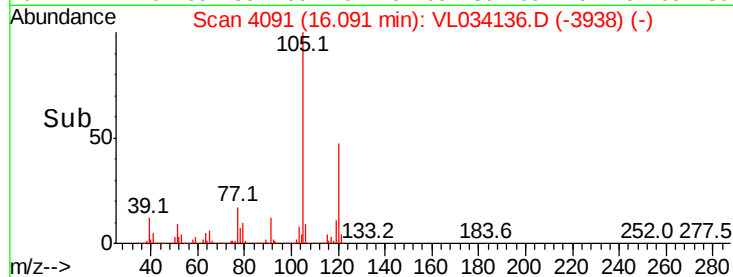
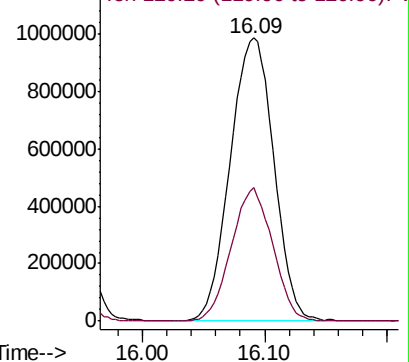
MMDadoda

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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: 8.259 ppbv

RT: 16.86 min Scan# 4330

Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Tgt Ion:105 Resp: 2421760

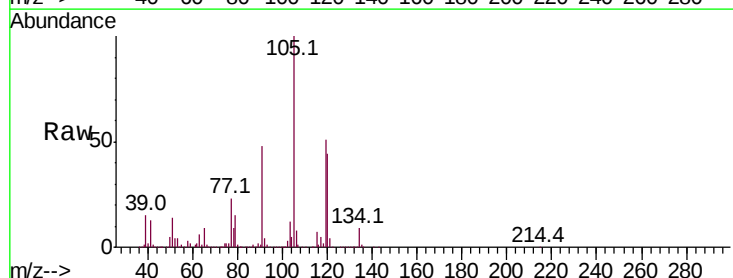
Ion Ratio Lower Upper

105 100

120 44.0 37.7 56.5

91 47.7 36.2 54.2

77 23.0 18.5 27.7

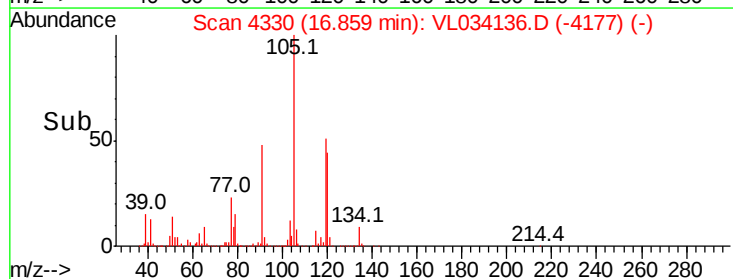
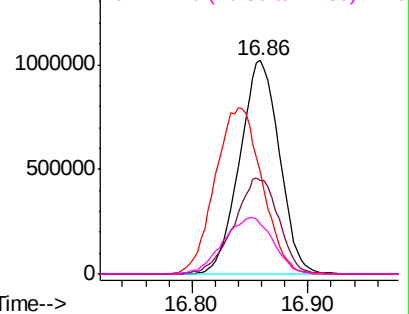


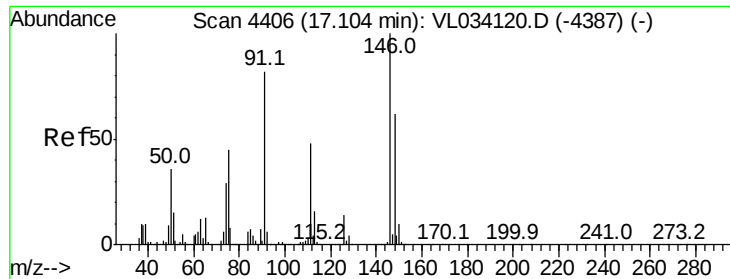
Abundance Ion 105.10 (104.80 to 105.80): V

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





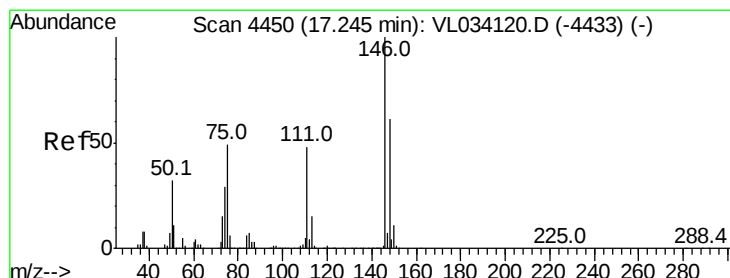
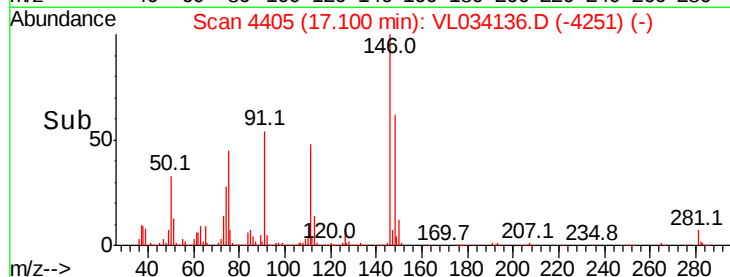
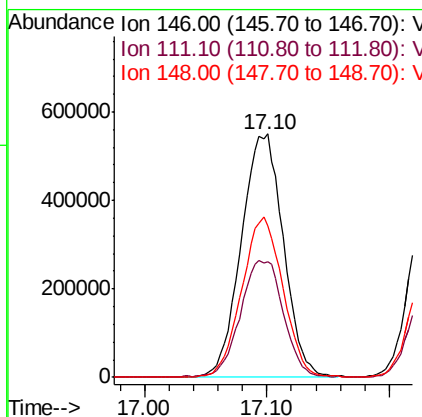
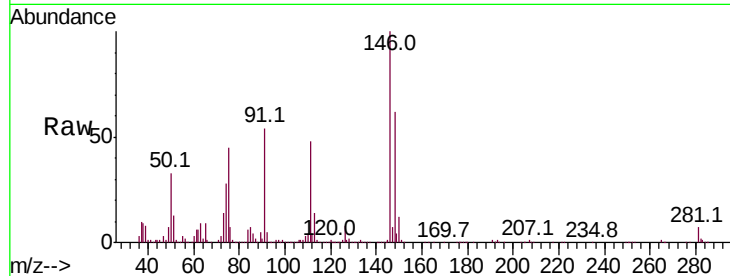
#75
 1,3-Dichlorobenzene
 Concen: 8.402 ppbv
 RT: 17.10 min Scan# 4405
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.9	74.7
148	64.6	32.5	97.5

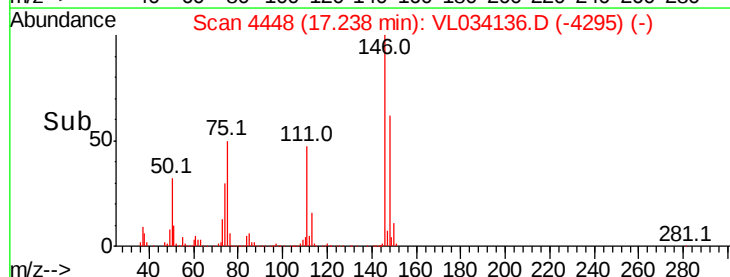
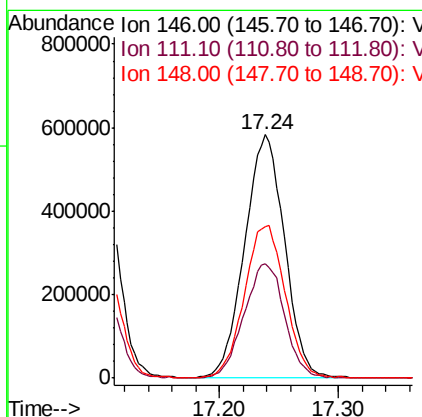
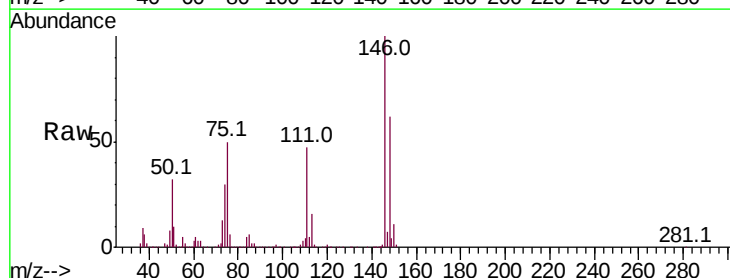
Manual Integrations
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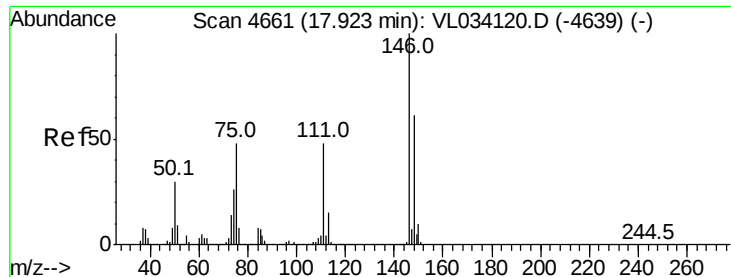
MMDadoda
 9/12/2019 5:15:20 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.287 ppbv
 RT: 17.24 min Scan# 4448
 Delta R.T. -0.01 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.3	72.8
148	64.6	32.6	98.0





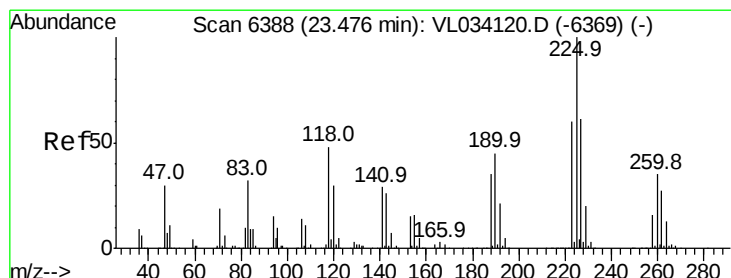
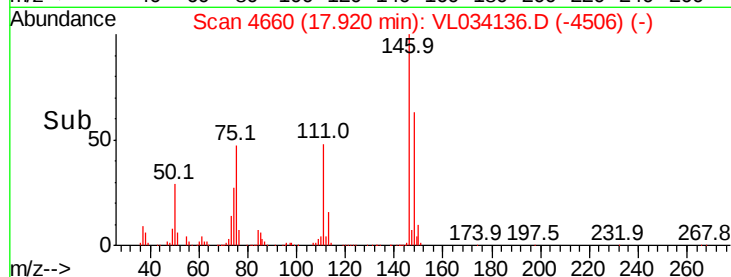
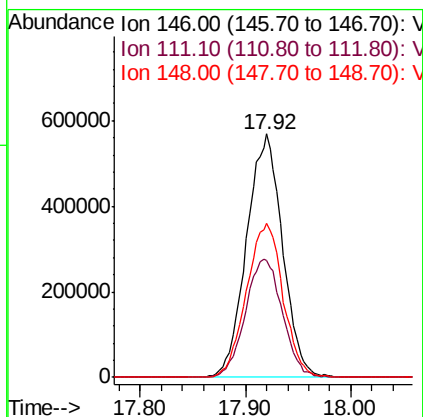
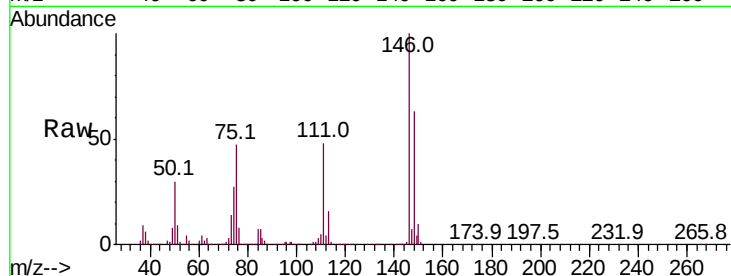
#77
 1,2-Dichlorobenzene
 Concen: 8.476 ppbv
 RT: 17.92 min Scan# 4660
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.9	25.1	75.4
148	64.6	32.0	96.2

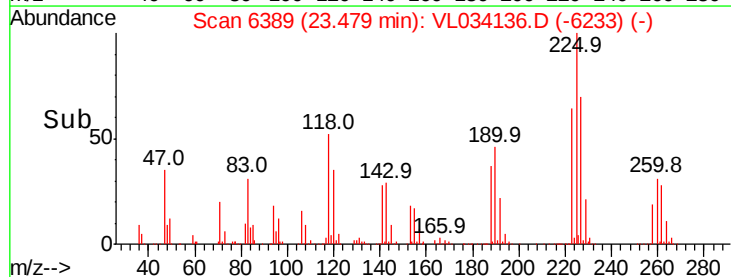
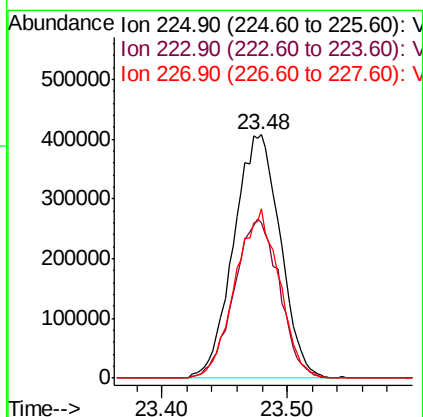
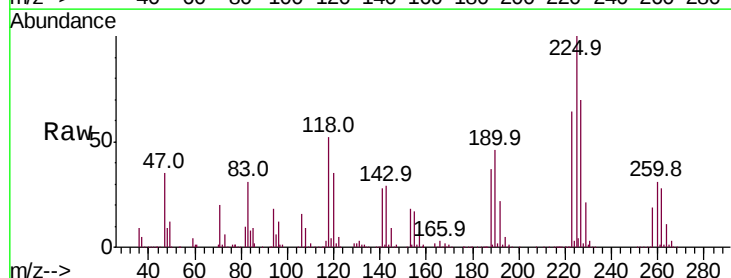
Manual Integrations
 APPROVED

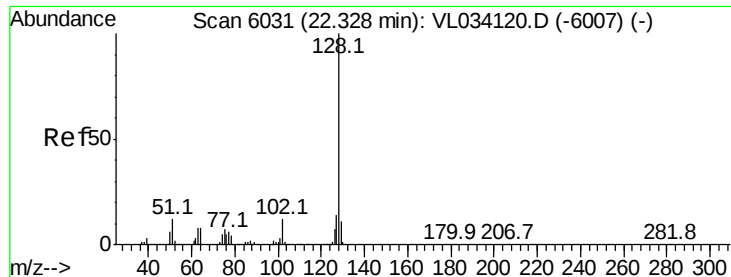
MMDadoda
 9/12/2019 5:15:20 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.630 ppbv
 RT: 23.48 min Scan# 6389
 Delta R.T. 0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.3	75.5
227	65.8	50.9	76.3





#79

Naphthalene

Concen: 8.880 ppbv

RT: 22.33 min Scan# 6030

Delta R.T. -0.00 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Instrument :

MSVOA_L

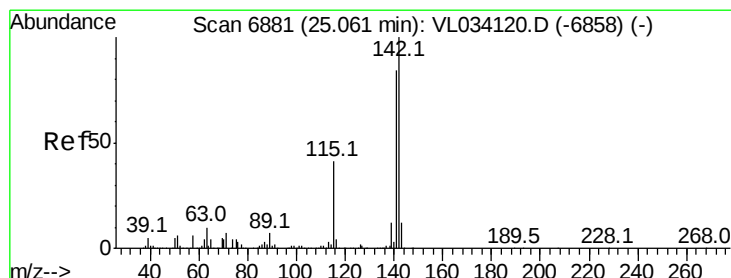
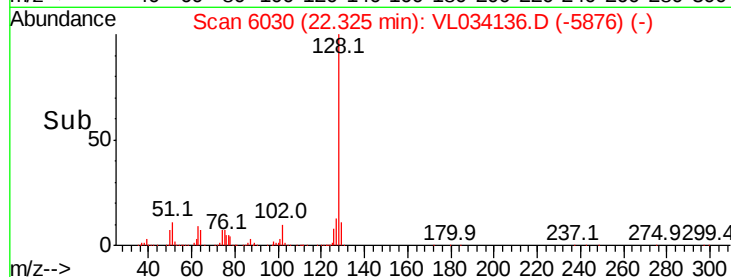
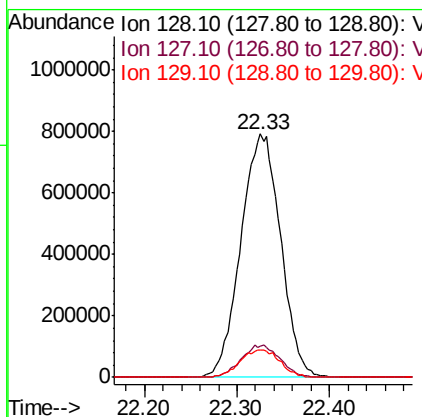
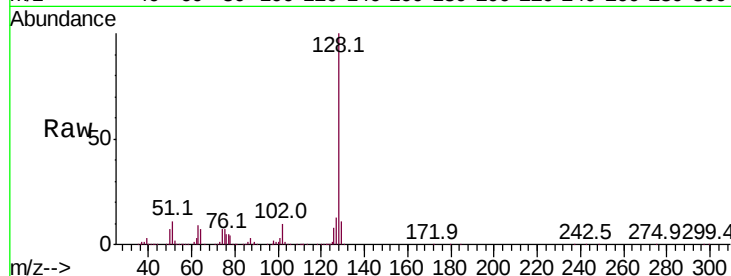
ClientSampleId :

VSTDCCC010EC

Tot Ion:	128	Resp:	2353980
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.9	16.3
129	11.2	8.5	12.7

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9/12/2019 5:15:20 AM



#80

Naphthalene, 2-methyl-

Concen: 9.698 ppbv

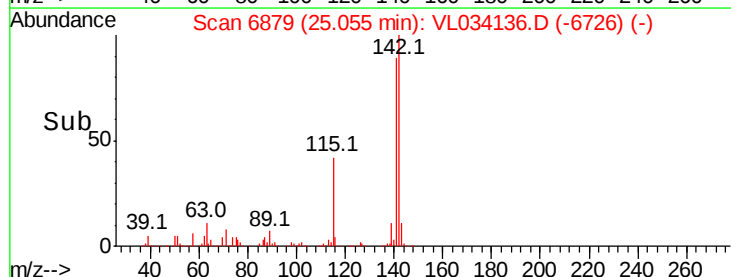
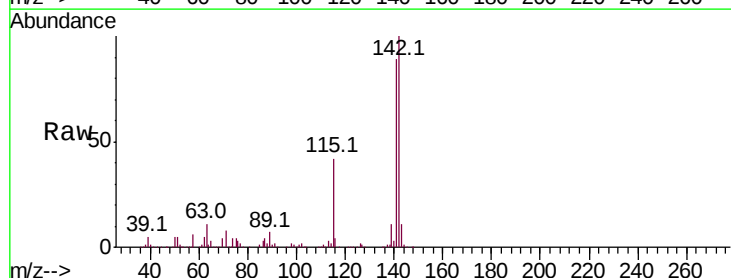
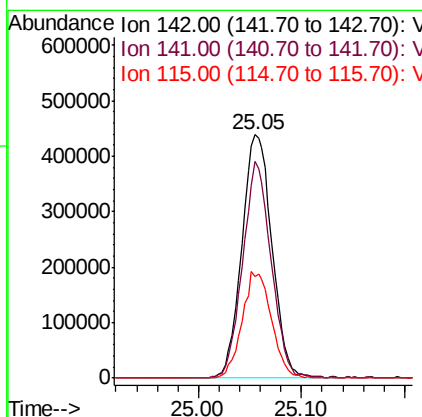
RT: 25.05 min Scan# 6879

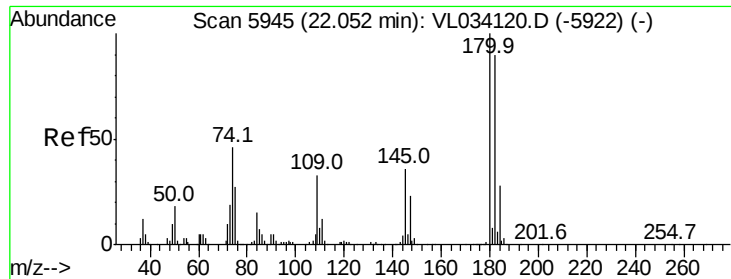
Delta R.T. -0.01 min

Lab File: VL034136.D

Acq: 5 Sep 2019 15:04

Tgt Ion:	142	Resp:	892420
Ion	Ratio	Lower	Upper
142	100		
141	83.9	67.6	101.4
115	42.8	34.6	52.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.276 ppbv
 RT: 22.05 min Scan# 5945
 Delta R.T. -0.00 min
 Lab File: VL034136.D
 Acq: 5 Sep 2019 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.0	115.4
184	30.8	25.5	38.3

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:20 AM

